

**Request for Competitive
Sealed Proposals**

**UNT UNION CORNER STORE
RENOVATION/CHICK-FIL-A
RELOCATION**

RFCSP752-24-3594-14556CS

DOCUMENT 001100
RFCSP752-24-3594-14556CS
ADVERTISEMENT FOR COMPETITIVE SEALED PROPOSAL

University of North Texas
Union Corner Store Renovation/Chick-fil-A Relocation
Response due: August 30, 2023, at 2:00 PM CST
HUB Plan due: August 31, 2023 at 2:00 PM CST
Date of Virtual Opening: September 6, 2023 at 1:00 PM CST

In accordance with Education Code 51.783, the University of North Texas (UNT), subsequently referred to as Owner, is accepting proposals and intends to enter into an agreement with a vendor that specializes in General Construction in accordance with the terms and conditions and requirements set forth in this RFCSP. Sealed proposals for **RFCSP752-24-3594-14556CS** will be received by the Owner electronically through Jaggaer link provided below.

Proposals will be received up to 2:00 p.m. CST on **August 30, 2023**. HUB Sub-contracting Plans must be received up to 2:00 p.m. CST on **August 31, 2023**. Proposals received after the date and hour above stated will not receive consideration. Proposals will then be virtually opened and read aloud promptly at 1:00 p.m. CST on **September 6, 2023, via Teams meeting:**

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 256 511 496 06

Passcode: jYQRp2

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 940-304-2772,,148554386#](#) United States, Denton

Phone Conference ID: 148 554 386#

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Project Description

This project is for the renovation of the University Union Building Corner Store. Remodel current Corner store space in the Student Union for upgraded Chick-fil-A and additional tables/seats for the Union. The renovation is to address the increase in volume of business. The business volume has outpaced current operational space occupied by Chick-Fil-A. The Corner Store location can offer the needed growth space, both for food service production and needed seating. Notice to Proceed for construction is anticipated to be September 2023, with substantial completion on December 8, 2023, and final completion in December 2023.

Questions

Questions concerning this proposal should be directed to:

Carrie Stoeckert
Senior Construction Contract Coordinator
University of North Texas System
Strategic Infrastructure, Planning & Construction

Carrie.stoeckert@untsystem.edu

All questions must be received no later than 2:00 p.m. CST on August 15, 2023. All questions and answers will be posted to the website by 5:00 p.m. CST on August 18, 2023.

The Owner may in its sole discretion respond in writing to questions concerning this Proposal. Only the Owner's responses made by formal written Addendum to this Proposal shall be binding and shall be posted on the UNT System's website located at <https://finance.untsystem.edu/vendor-resources/bid-inquiry/bid-opportunities.php> . Oral or other written interpretations or clarifications shall be without legal effect.

Pre-Proposal Meeting

The pre-proposal meeting will be held at **10:00 a.m. CST on August 7, 2023, at the UNT University Union, 1155 Union Circle, Room 339, Denton, Tx. Parking will be available on the 3rd Floor of the Union Parking Garage.**

Site Visit: Site visit will be conducted on **August 7, 2023**, immediately following the pre-proposal meeting. This will be the only site visit conducted.

Bid Documents

Proposers may obtain or access plans, specifications, and addenda for this project through the following sources:

Online - Proposers can view bid documents at Electronic State Business Daily (<http://www.txsmartbuy.com/sp>), at the UNT System website at <https://finance.untsystem.edu/vendor-resources/bid-inquiry/bid-opportunities.php> and the UNTS Jaggaer website: <https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS> .

Plan Rooms with bid documents on file include: McGraw-Hill Construction Plan Center (Irving), ABC Plan Room (Irving), DFW Minority (Dallas), AGC TEXO and iSqFt Plan Room (Dallas). Contact information for the plan rooms can be found at <http://www.untsystem.edu/unt-plan-rooms>.

Historically Underutilized Business (HUB)

In accordance with Texas Government Code 2161, RFCSP for contracts with an expected value of \$100,000 or more will require HUB Subcontracting Plan. All subcontracted work whether identified by the Owner or not, are required to be identified in the HUB Subcontracting Plan. The Plan should reflect all subcontracting opportunities to be utilized in this project and can be found online at (<http://www.window.state.tx.us/procurement/prog/hub/hub-forms/hub-sbcont-plan--allfms.pdf>). Complete, print, sign and submit the HUB Subcontracting Plan form with the proposal response.

Only RFCSP responses with approved HUB Subcontracting Plans will be opened. Please submit the HUB Subcontracting Plan as a separate pdf document, separate from your RFCSP electronic response through the UNTS Jaggaer link provided above.

Questions regarding the completion of the HUB Subcontracting Plan should be directed to Sony Simon or Rosa Violante at 940-369-5500 or hub@untsystem.edu .

The Owner is not bound to accept the lowest priced offer if that offer is not in its best interest, as determined by the Owner. The Owner reserves the right to: (a) enter into agreements or other contractual arrangements for all or any portion of the Scope of Work set forth in this Proposal with one or more respondents; (b) reject any and all offers and re-solicit offers; or (c) reject any and all offers and temporarily or permanently abandon this procurement, if deemed to be in the best interest of the Owner.

END OF SECTION

**DOCUMENT 002100
RFCSP752-24-3594-14556CS
INSTRUCTIONS FOR PROPOSAL**

University of North Texas (UNT), subsequently referred to as the Owner, is accepting sealed proposals from contractors for a General Construction project, pursuant to Sec. 51.783, *Texas Education Code*, in accordance with the terms and conditions and requirements set forth in this Request for Competitive Sealed Proposal (RFCSP).

1. PRE-PROPOSAL MEETING:

A pre-proposal meeting will be conducted to answer any questions regarding the scope of the project and the submission of the HUB Subcontracting Plan. Attendance is not mandatory but highly recommended. The pre-proposal meeting will be held at:

**August 7, 2023, at 10:00 a.m. CST
UNT Union
1155 Union Circle, Room 339
Denton, Tx 76203**

2. SITE VISIT:

A site visit will be conducted on **August 7, 2023, immediately following the pre-proposal meeting**. This will be the only time available to view the site, no other site visit will be allowed. Site visit will be at UNT University Union, located at Denton, Texas.

3. PROJECT PROPOSED SCHEDULE

August 1, 2023		Issue RFCSP
August 7, 2023	10:00 a.m.	Pre-Proposal Conference/Site Visit
August 15, 2023	2:00 p.m.	Deadline for Submission of Questions
August 18, 2023	5:00 p.m.	Responses to Questions Post on Website
August 30, 2023	2:00 p.m.	Deadline for Submission of Proposal
August 31, 2023	2:00 p.m.	Deadline for HUB Sub-Contracting Plan
September 6, 2023	1:00 p.m.	Public Opening - Virtual
September 2023		Formal Contract Award Notification
September 2023		Agreement Authorized
September 2023		Anticipated Notice to Proceed

4. GENERAL REQUIREMENTS

3.1 Pricing

Your proposal must include all labor, material, equipment, and services necessary to complete the work required by the construction documents. Pricing reflects the full Scope of Work defined herein; inclusive of all associated cost for delivery, labor, insurance, taxes, overhead and profit, or as otherwise defined, as appropriate. The Contractor shall base their base proposal price on the set of 100 percent Construction Documents and Specification. Contractor must complete Division 00, Section 004100, *Proposal Form*. Proposal must also include all alternates.

3.2 Unit Prices

When requested, Respondents must price per unit shown. Unit prices shall govern in the event of extension errors. Respondents must give unit prices for each item to be purchased. An "All or None" response by Respondent may be rejected at the option of the Owner. Quote F.O.B destination, freight prepaid and allowed. Otherwise, specify exact delivery cost and terms.

3.3 Schedule

Time is of the essence in the performance of the Contractor's duties. It is critical that a realistic expedited schedule is provided.

3.4 Purchasing Items

- A. Catalogs, brand names or manufacturer's references are descriptive only, and indicate type and quality desired. Substitution requests of like nature and quality will be considered if response specifies such. If responding on other than referenced, response should show manufacturer, brand or trade name, and other description of product offered. If other than brand(s) specified is offered, illustrations and a complete description of product offered are requested to be made part of the response. Failure to take exception to specifications or reference data will require respondent to furnish specified brand names, numbers, etc.
- B. Unless otherwise specified, all material shall be new and unused.
- C. In addition, all electrical items must meet all applicable state and federal standards and regulations, and bear the appropriate listing such as ANSI, FCC, NEMA, NTRL, and OSHA standards.
- D. Samples, when requested, must be furnished free of expense to the Owner. If not destroyed in examination, they will be returned to Respondent, on request, at Respondent's expense. Each sample should be marked with Respondent's name, address, and requisition number. Do not enclose in or attach offer to sample.
- E. A one (1) year warranty from substantial completion is required.
- F. Delivery
 - i. Show number of days required to complete project under normal conditions.
 - ii. No substitutions permitted without written approval of Owner.
- G. Inspection and Tests

All work will be subject to inspection and test by the Owner. All costs shall be borne by the respondent in the event of failed inspection or tests.

3.5 Eligible Respondents

Only individual firms or formal joint ventures may apply. Two (2) firms may not apply jointly unless they have formed a joint venture. Any associates will be disqualified. (This does not preclude a respondent from having consultants.)

4. SUBMISSION OF PROPOSALS

- 4.1 Submit a total of one (1) complete copy of the entire response. Please submit your Hub-Subcontracting Plan as a separate pdf file. Your HUB Sub-Contracting Plan will be due 24 hours after submission of your proposal. No QR codes will be accepted as part of your response and may disqualify your response. An original signature must appear on the Proposal Form (Division 00, Section 004100).
- 4.2 Your response and HSP should be electronically submitted through the UNTS Jaggaer website link as follows:

<https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS>

In order to submit proposals electronically, Proposer must have a working, registered vendor username and password to login. If this is the first time Proposer has attempted to submit a response electronically, please register at:

<https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS>

Proposers are highly encouraged to ensure you have a working login in advance of the submission deadline. Proposer is responsible for ensuring it has the technical capability to submit its proposal via electronic submission.

Browser requirements: Chrome

Proposer shall be solely responsible for ensuring timely submission of the Proposal.

UNTS is not responsible for equipment or software failure, internet or website downtime, corrupt or unreadable data, or other technical issues that may cause delay or non-delivery of a Proposal or inaccessibility of the submitted data. **Proposers are highly encouraged to prepare and allow for sufficient time to familiarize themselves with the electronic submission requirements and to address any technical or data issues Prior to the Proposal due date and time.**

- A. Late proposals will not be considered under any circumstances.
- B. The Owner reserves the right to accept late proposals; however, proposals received after opening time will not be accepted.
- C. Facsimile ("FAX") or emailed proposals are not acceptable.
- D. **The Proposal must be submitted no later than 2:00 p.m. CST on August 30, 2023. Proposals received after the date and hour previously stated will not receive consideration. The HUB Sub-Contracting Plan must be submitted no later than 2:00 p.m. CST on August 31, 2023. Failure to submit the HUB Sub-contracting plan will disqualify your proposal.**

Please submit your response electronically thru the UNT System Jaggaer site at: <https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS>

Proposals will be received until the date and time established for receipt, then opened. The names of the respondents who submitted proposals will be made public. **A public opening shall be held virtually on September 6, 2023, promptly at 1:00 p.m. CST. Public bid opening will be held virtually via Microsoft Teams meeting:**

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 256 511 496 06

Passcode: jYQRp2

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Or call in (audio only)

[+1 940-304-2772,,148554386#](#) United States, Denton

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- 4.3 After proposals are received in response hereto and notice of intent to award a contract is made, the successful Contractor will be required to enter into a contract in the form of the Owner's standard General Construction Agreement. The Contractor should review the contract (Division 00, Section 005200, *Agreement Forms*). No changes to the standard contract will be accepted.

Any questions or concerns regarding this Request for Proposals shall be directed to:

Carrie Stoeckert, Senior Construction Contract Coordinator
University of North Texas System
Strategic Infrastructure, Planning & Construction

Please submit solicitation questions to: carrie.stoeckert@untsystem.edu

All questions must be received no later than August 15, 2022, at 2:00p.m. CST. All questions and answers will be posted to the website by 5:00p.m. CST, August 18, 2022.

The Owner specifically requests that Respondents restrict all contact and questions regarding this RFCSP to the above-named individual except as provided in 4.2 above.

Responses to inquiries which directly affect an interpretation or change to this RFCSP will be issued in electronically by addendum (amendment) and posted at:

<https://finance.untsystem.edu/vendor-resources/bid-inquiry/bid-opportunities.php> ,
<https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS> ,
and <http://www.txsmartbuy.com/sp>

All such addenda issued by the Owner prior to the time that proposals are received shall be considered part of the RFCSP, and the Respondent shall be required to consider and acknowledge receipt of such on the proposal form. Contractors are responsible for obtaining any addenda posted on the websites listed above.

Only those inquiries the Owner replies to which are made by formal written addenda shall be binding. Oral and other interpretations or clarifications will be without legal effect. The Respondent must acknowledge all addenda in Division 00, Section 004100, *Proposal Form*.

4.4 Compliance with Law

Contractor is aware of, is fully informed about, and in full compliance with its obligations under existing applicable law and regulations, including Title VI of the Civil Rights Act of 1964, as amended (42 USC 2000(D)), Executive Order 11246, as amended (41 CFR 60-1 and 60-2), Vietnam Era Veterans Readjustment Act of 1974, as amended (41 CFR 60-250), Rehabilitation Act of 1973, as amended (41 CFR 60-741), Age Discrimination Act of 1975 (42 USC 6101 et seq.), Non-segregated Facilities (41 CFR 60-1), Omnibus Budget Reconciliation Provision, Section 952, Fair Labor Standards Act of 1938, Sections 6, 7, and 12, as amended, Immigration Reform and Control Act of 1986, and Utilization of Small Business Concerns and Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals (PL 96-507), the Americans with Disabilities Act of 1990 (42 USC 12101 et seq.), the Civil Rights Act of 1991, and all other laws and regulations and executive orders as are applicable.

4.5 University's Right to Audit

At any time during the term of any Contract resulting from this solicitation and for a period of seven (7) years thereafter, the Owner or a duly-authorized audit representative of the Owner or the State of Texas, at its expense and at reasonable times, reserves the right to audit Contractor's records and books relevant to all services provided under this Contract. In the event such an audit by the Owner reveals any errors/overpayments by the Owner, Contractor shall refund the Owner the full amount of such overpayments within thirty (30) days of such audit findings, or the Owner, at its option, reserves the right to deduct such amounts owing the Owner from any payments due Contractor.

4.6 Access to Documents

To the extent applicable to this procurement, in accordance with Public Law 99-499 under TEFRA, Contractor agrees to allow, during and for a period of not less than seven (7) years after the Contract term, access to this Contract and its books, documents, and records; and contracts between Contractor and its subcontractors or related organizations, including books, documents and records relating to same, by the Comptroller General of the United States, the U.S. Department of Health and Human Services, and their duly authorized representatives.

4.7 Insurance and Bonds

The Contractor shall provide and maintain insurance, performance bond, and payment bond as required. The minimum insurance coverage and bonding requirements are stated in Division 00, Section 007000, *UGC*.

4.8 Other Benefits

It is understood and agreed that no benefits, payments or considerations received by Contractor for the performance of services associated with and pertinent to the resultant Agreement shall accrue, directly, or indirectly, to any employees, elected or appointed officers or representatives, or any other person identified as agents of, or who are, by definition, an employee of the State.

4.9 Non-Disclosure

Contractor and Owner acknowledge that they or their employees may, in the performance of the resultant Contract, come into the possession of proprietary or confidential information owned by or in the possession of the other. Neither party shall use any such information for its own benefit or make such information available to any person, firm, corporation, or other organization, regardless of whether directly or indirectly affiliated with Contractor or Owner, unless (i) required by law, (ii) required by order of any court or tribunal, (iii) such disclosure is necessary for the assertion of a right, or defense of an assertion of a right, by one party against the other party hereto, or (iv) such information has been acquired from other sources.

4.10 Publicity

Contractor agrees that it shall not publicize this potential Contract or disclose, confirm or deny any details thereof to third parties or use any photographs or video recordings of the Owner's employees or use the Owner's name in connection with any sales promotion or publicity event without prior written approval.

4.11 Assignment

The potential agreement with Contractor resulting from this RFCSP is a personal service contract for the services of Contractor, and Contractor's interest in such agreement, duties thereunder and/or fees due thereunder may not be assigned or delegated to a third party without the Owner's prior written consent. The benefits and burdens of such agreement are, however, assignable by the Owner.

4.12 Assignment of Overcharge Claims

Contractor hereby assigns to the Owner any and all claims for overcharges associated with the Contract arising under the antitrust laws of the United States, 15 U.S.C.A., Sec. 1 et seq. (1973), or arising under the antitrust laws of the State of Texas, Texas Business and Commerce Code Annotated, Sec. 15.01, et seq. (1967).

4.13 Patent and Copyright

Contractor shall pay for any royalties, license fees, copyrights or trade and service marks required to perform the services required by any resulting Contract.

4.14 Texas Public Information Act

The Owner considers all information, documentation and other materials requested to be submitted in response to this solicitation to be of a non-confidential and/or non-proprietary nature and therefore shall be subject to public disclosure under the Texas Public Information Act (Texas Government Code, Chapter 552.001, et seq.) after a contract is awarded.

Respondents are hereby notified that the Owner strictly adheres to all statutes, court decisions, and opinions of the Texas Attorney General regarding the disclosure of RFCSP information.

4.15 Freedom of Access and Use of Facilities

Contractor's employees shall have reasonable and free access to use only those facilities of the Owner that are necessary to perform services under a resulting Contract and shall have no right of access to any other facilities of the Owner.

4.16 Observance of University Rules and Regulations

Contractor agrees that at all times its employees will observe and comply with all regulations of the facilities, including but not limited to, no smoking, parking and security regulations.

4.17 Section Headings

All section headings are for convenience of reference only and are not intended to define or limit the scope of any provisions of this RFCSP.

4.18 Governing Law

- A. This RFCSP, and any resulting Contract, agreement or purchase order shall be construed and governed by the laws of the State of Texas.
- B. The parties understand and agree that any purchase order/contract may be subject to the Health Insurance Portability and Accountability Act of 1996 (HIPAA), the administrative regulations and/or guidance which have been issued or may in the future be issued pursuant to HIPAA, including, but not limited to, the Department of Health and Human Services regulations on privacy and security, and Texas state laws pertaining to medical privacy (collectively, "Privacy Laws"). Vendor agrees to comply with all Privacy Laws that are applicable to this purchase order/contract and to negotiate in good faith to execute any amendment to this purchase order/contract that is required for the terms of this purchase order/contract to comply with applicable Privacy Laws. In the event the parties are unable to agree on the terms of an amendment pursuant to this paragraph within thirty (30) days of the date the amendment request is delivered by one party to the other, this order may be terminated by either party upon written notice to the other party.
- C. **Important Notice:** Any purchase order may be funded wholly or partially with federal funds subject to the American Recovery and Reinvestment Act of 2009 (ARRA). The vendor shall comply with all applicable provisions of ARRA, which may include, but are not limited to, the provision of Division A, Titles XV and XVI (e.g., audit provisions, whistleblower protection, and preferences for American products).
- D. **Federal Funds:** All procurements of supplies equipment, and services utilizing Federal Funds (e.g. Federal Grant or Contract) shall be made in accordance with all applicable federal rules and regulations: Federal Acquisition Regulations (FAR), Federal Office of Management and Budget (OMB) Educational Institutions, even if part of a State or local government follow: OMB A-21 for cost principles, A-110 for administrative requirements, and A-133 for audit requirements. All procurement requirements contained in the above referenced circulars are incorporated herein by reference. By signing this solicitation document, vendor certifies that vendor is in compliance with OMB A-110 and that vendor is not on the Debarred Bidders List.

4.19 Owner's Special Conditions

The Owner requires full compliance with Division 00 and Division 01 Specifications, Contract and General Requirements. The documents shall be a part of this RFCSP and the Contract.

4.20 Prevailing Wage Schedule, University of North Texas System

Prevailing wage schedule shall in accordance with Texas Government Code, Chapter 2258. The hourly wage rate for work over forty (40) hours a week and work on legal holidays shall be not less than one and one-half (1.5) times the hourly rates.

Respondents shall base their proposals on rates they expect to pay. The Owner will not consider claims for extra payment to the Contractor on account of payment of wages higher than those required by Texas Government Code, Chapter 2258.

- 4.21 Pursuant to Section 231.006 of the Family Code, response must include names and social security numbers of each person with at least twenty-five (25) percent ownership of the business entity submitting the response. Vendors that have pre-registered this information on the Texas Comptroller of Public Accounts Centralized Master Bidders List (CMBL) have satisfied this requirement. If not pre-registered, list the name and social security numbers for each person. Otherwise, this information must be provided prior to contract award.

4.22 **Note to Vendors: Any terms and conditions attached to any response will not be considered unless specifically referred to on the Solicitation and may result in disqualification of the response.**

- A. **Dispute Resolution:** Chapter 2260 of the Texas Government Code establishes a dispute resolution process for contracts involving goods, services, and certain types of projects. If Chapter 2260 applies to this Purchase Order, then the statutory dispute resolution process must be used by the vendor to attempt to resolve all of its disputes arising under this Purchase Order.

- B. **Excess Obligations Prohibited:** The Texas Constitution (Article XVI, Section 10) prohibits obligators beyond the current appropriations, which the Owner applies annually. Any purchase order may be canceled at any time without penalty if legislative and/or Owner funds are not appropriated for goods or services obligated on any purchase order beyond the current fiscal year (September 1 through August 31 of any given year.)
- C. **Cancellation:** Items or orders may be canceled without the consent of the vendor due to failure to fulfill their contractual obligations. If cancellation is requested by the Owner for some other reason through no fault of the vendor, the vendor will be contacted. The Owner reserves the right to cancel this contract upon thirty (30) days written notice to the Contractor. The Contractor must request and secure in writing the approval of the Purchasing Department to be released from this contract or any portion thereof should unforeseeable conditions occur.
- D. **Miscellaneous:** The laws of the State of Texas shall prevail, including the Public Information Act. Any Order is not confidential. All transactions associated with this Order may be subject to audit. Vendor, by accepting this Order agrees to allow access to all records regarding this transaction upon written request by UNTS Internal Auditors and/or UNTS Business Support Services Procurement department.

5. EVALUATION

- 5.1 The successful offer will be the offer that is submitted in response to this Proposal by the Submittal Deadline and provides the Best Value to the Owner in the Owner's sole discretion. Offers will be evaluated by an evaluation committee that will include employees of the Owner and other persons invited by the Owner to participate. The evaluation of offers and the selection of the Successful Offer will be based on the information provided to the Owner by the respondent in response to the Specifications section of this Proposal. Consideration may also be given to any additional information and comments if such information or comments increase the benefits to the Owner. The successful respondent will be required to enter into a contract acceptable to the Owner.

The evaluation committee will determine if Best and Final Offers are necessary. Award of a contract may be made without Best and Final Offers. The Owner may, at its discretion, elect to have Respondents provide oral presentations and respond to inquiries from the evaluation committee related to their Proposals. A request for a Best and Final Offer is at the sole discretion of the Owner and will be extended in writing

In evaluating Proposals to determine the best value for the State, the Owner may consider information related to past contract performance of a Respondent including, but not limited to, Texas Comptroller of Public Account's Vendor Performance Tracking System.

- 5.2 Evaluation Criteria

Proposals will be opened publicly to identify the names of the proposers and their respective proposed agreement amounts. Other contents of the Proposals will be afforded security sufficient to preclude disclosure of the contents prior to award. Proposals will be evaluated by the Owner. The criteria for evaluation, Best Value determination using Education Code 51.783 and selection of the successful proposer for this award, will be based upon the equally weighted factors listed below:

- A. Proposed agreement amount listed on Proposal form.
- B. Proposed number of calendar days indicated on Proposal form.
- C. The qualifications and experience of the proposer's key personnel and subcontractors committed to the project. Five (5) years experience with similar scale projects, resumes of key team members working on project, experience with commercial kitchen construction within an occupied building.
- D. Proposer's current workload availability or time dedicated to this project of personnel and equipment.
- E. The quality of references from owners and architects for similar projects completed by the proposer within the last five (5) years.
- F. The proposer's proposed project schedule and the demonstrated ability to have met expedited schedules on similar projects.
- G. The responsibility and reputation of the proposer, including claims and litigation experiences.
- H. The proposer's safety record.
- I. The sufficiency of the proposer's financial resources.

6. AWARD PROCESS

- 6.1 After the opening of the offers and upon completion of the initial review and evaluation of the offers submitted, selected respondents may be invited to participate in oral presentations. The selection of the Successful Offer may be made by the Owner on the basis of the offers initially submitted, without discussion, clarification or modification. In the alternative, selection of the Successful Offer may be made by the Owner on the basis of negotiation with any of the respondents. At the Owner's sole option and discretion, it may discuss and negotiate all elements of the offers submitted by selected respondents within a specified competitive range. For purposes of negotiation, a competitive range of acceptable or potentially acceptable offers may be established comprising the highest-rated offers. The Owner will provide each respondent within the competitive range with an equal opportunity for discussion and revision of its offer. The Owner will not disclose any information derived from the offers submitted by competing respondents in conducting such discussions. Further action on offers not included within the competitive range will be deferred pending the selection of the Successful Offer; however, the Owner reserves the right to include additional offers in the competitive range if deemed to be in its best interest.

After the submission of offers but before final selection of the Successful Offer is made, the Owner may permit a respondent to revise its offer in order to obtain the respondent's best final offer. The Owner is not bound to accept the lowest-priced offer if that offer is not in its best interest, as determined by the Owner.

The Owner reserves the right to: (a) enter into agreements or other contractual arrangements for all or any portion of the Scope of Work set forth in this Proposal with one or more respondents; (b) reject any and all offers and re-solicit offers; or (c) reject any and all offers and temporarily or permanently abandon this procurement, if deemed to be in the best interest of the Owner.

6.2 Respondent's Acceptance of Evaluation Methodology

Submission of an offer by a respondent indicates: (1) the respondent's acceptance of the Selection Process, the Evaluation of Criteria for selection, and all other requirements and specifications set forth in this Proposal; and (2) the respondent's recognition that some subjective judgments must be made by the Owner during this Proposal process.

6.3 Contract

- A. A response to this Solicitation is an offer to contract based upon the terms, conditions and specifications contained herein. Responses do not become contracts until a UNTS Agreement is issued and accepted. The contract shall be governed, construed, and interpreted under the laws of the State of Texas as the same may be amended from time to time. The Education Code 51.9335 shall be considered in making an award when specified. Venue for any suit filed against UNTS shall be subject to the mandatory venue statute set forth in §105.151 of the Texas Education Code.
- i. An award is made to the Vendor submitting the lowest and/or best value response conforming to this specification. To determine the lowest and/or best value response, in addition to price, BEST VALUE may be considered.
 - ii. DEBTS TO THE STATE: Any party indebted to the State of Texas or any party who is more than thirty (30) days delinquent for Child Support is not entitled to payment on this purchase order or any accompanying contract.
 - iii. If a "best offer" vendor shows not to be in "good standing," this agency may reject the response and award to the next best response.
 - iv. The Owner reserves the right to award the entire contract to a single Vendor or to award different components to different Vendors, whichever the Owner, at its sole discretion, determines to be in its overall best interest, as solely determined by the responsible parties of the Owner.
- B. Respondent understands that acceptance of funds under this contract acts as acceptance of the authority of the State Auditor's Office, or any successor agency, to conduct an audit or investigation in connection with those funds. Respondent further agrees to cooperate fully with the State Auditor's Office or its successor in the conduct of the audit or investigation, including providing all records requested. Respondent will ensure that this clause concerning the authority to audit funds received indirectly by subcontractors through proposer and the requirement to cooperate is included in any subcontract it awards.

- 6.4 Response Results: It is not the policy of the Owner to furnish results over the telephone. Bid tabulations may be requested by email to carrie.stoeckert@untsystem.edu .

6.5 Historically Underutilized Businesses (HUB)

- A. If Owner elects to award the future Construction Phase Services to the Construction Manager, the proposed contract is expected to exceed \$100,000.00. A Good Faith Effort Program in the form of a HUB Subcontracting Plan (HSP) is a mandatory condition precedent to the award of any such extension of the contract. The HSP will become a part of the General Construction Agreement Refer to Division 00, Section 006000, *Project Forms* herein for HSP Forms.
- B. Centralized Master Bidders List (CBML): The Owner utilizes the Texas Comptroller of Public Accounts CBML to locate potential HUB vendors. The CBML is located at: <http://comptroller.texas.gov/purchasing/vendor/cbml/>. Non-HUB respondents are identified from various sources including the CBML.
- C. Questions regarding completing the HSP should be directed to Sony Simon, Assistant HUB Coordinator or Rosa Violante at 940-369-5500 or hub@untsystem.edu . Additional information can also be found at the Texas Comptroller for the Public Accounts website at:

<http://www.window.state.tx.us/procurement/prog/hub/hub-forms/> .

FAILURE TO MEET HUB REQUIREMENTS MAY RESULT IN THE TERMINATION OF THE CONTRACT.

END OF SECTION

DOCUMENT 004100
RFCSP752-24-3594-14556CS
Union Corner Store Renovation/Chick Fil-A Relocation
PROPOSAL FORM

Proposal of: _____
(Company Name)

In accordance with Education Code 51.783, the University of North (UNT), subsequently referred to as the Owner, is accepting proposals and intends to enter into an agreement with a General Construction contractor in accordance with the terms, conditions and requirements set forth in this Request for Competitive Sealed Proposal (RFCSP).

UNTS is accepting sealed bids no later than 2:00 p.m. CST on August 30, 2023. Bids received after the date and hour previously stated will not receive consideration. The HUB Sub-Contracting Plan is due no later than 2:00 p.m. CST on August 31, 2023. Failure to submit the HUB plan will disqualify your proposal.

The scope of work of this RFCSP is General Construction for the Union Corner Store Renovation project. A set of the one hundred percent (100%) Construction Documents and Specifications have been included for use in preparation of the proposal. A sample copy of the agreement has been included (Division 00, Section 005200, *Agreement Forms*) for review.

PROPOSERS ARE CAUTIONED TO READ THE INFORMATION CONTAINED OR REFERRED TO IN THIS RFCSP CAREFULLY AND TO SUBMIT A COMPLETE RESPONSE TO ALL REQUIREMENTS AS DIRECTED.

TO: Carrie Stoeckert
Senior Construction Contract Coordinator
University of North Texas System

Via Electronic Delivery through Jaegger Website Link below:

<https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=UNTS>

BASE BID

Pursuant to and in compliance with the Contract Documents and any attachments thereto, including the Advertisement for Competitive Sealed Proposal and Instruction for Proposals, the Proposer hereby certifies that it has, carefully examined the Contract Documents entitled:

Chick-fil-A **Prepared by: Mayse & Associates, Inc.**

Base Bid: The conditions affecting the Work, and being familiar with the site; and having made the necessary examinations, proposes to furnish all labor, materials, equipment, and services necessary to complete the Work in strict accordance with the Contract Documents for the above referenced project for the following sum (**Not including bond cost**):

\$ _____

ALTERNATE BIDS

Number	Description of Alternate Bid:	Additive/Deductive	Bid Amount:
1	<u>No Alternates</u>	<input type="checkbox"/> Additive <input type="checkbox"/> Deductive	\$

PAYMENT TERMS

The Owner shall be billed in accordance with Chapter 2251 of the Texas Government Code and payment shall be made no later than thirty (30) days following the later of (i) delivery of the goods or completion of the services and (ii) delivery of an invoice to Customer; and (c) interest, if any, on past due payments shall accrue and be paid in accordance with Chapter 2251 of the Texas Government Code. Payee must be in good standing, not indebted to the State of Texas, and current on all taxes owed to the State of Texas for payment to occur. Payment Applications and any required supporting documents must be presented to: University of North Texas System Facilities; 1155 Union Circle #311040, Denton, Texas 76203-5017.

- a. Payment on any contract will be withheld from Proposer if Proposer is determined to be more than thirty (30) days delinquent for Child Support.
- b. Successful Proposer shall be responsible for referencing the purchase order number(s) resulting from this proposal on any invoice(s), packing list(s), correspondence, etc. Invoicing must correlate to prices quoted either on a unit, hourly, etc. basis.
- c. **DISQUALIFICATION:** Response is subject to disqualification if Proposer provides revisions and/or exclusions to the terms and conditions listed in this solicitation that the Owner is limited by law from accepting (i.e. offers with the laws of a State other than Texas), requirements for prepayment not defined in or allowed for in this Solicitation, limitations on remedies, any revision to stated terms and conditions of the Solicitation, etc.
- d. Proposer agrees that any payments due under this contract may be applied towards any debt, including but not limited to delinquent taxes and child support that is owed to the State of Texas.

SALES TAX

Purchases made for the Owner’s use are exempt from the State Sales tax and Federal Excise tax. Do not include tax in response. Excise Tax Exemption Certificates are available upon request.

INSURANCE

The Proposer shall provide and maintain, until the work covered in this Contract is completed and accepted by the Owner, the minimum insurance coverage as stated in Division 00, Section 007000, UGC.

TIME OF COMPLETION

Consecutive Calendar Days needed to complete the project: _____ calendar days

LIQUIDATED DAMAGES

Liquidated damages will be in accordance with Division 00, Section 007000 “UGC”.

BOND

In accordance with Texas Government Code 2253, a Payment Bond is required for all public works agreements over \$25,000.00 and a Performance Bond for all public works agreements over \$100,000.00. It is estimated that this agreement will be over \$100,000.00 so a Payment and Performance Bond is required. Please provide the amount as a total bond cost. The Owner will pay bonding costs to the awarded vendor as a pass-through amount with proper documentation provided along with an invoice.

Payment and Performance Bond cost: \$ _____

ADDENDA

Receipt is hereby acknowledged of the following addenda to this RFCSP. (Initial, if applicable)

No. 1: _____ No. 2: _____ No. 3: _____ No. 4: _____ No. 5: _____ No. 6: _____

Dated: _____ Dated: _____ Dated: _____ Dated: _____ Dated: _____ Dated: _____

QUALIFICATIONS

Refer to Attachment A of this document. Qualifications must be submitted on the enclosed form and no other document will be accepted. Not providing qualifications on the provided form will be cause for disqualification.

An incomplete proposal or one having additional information or other modifications inscribed thereon, may be cause for rejections of the entire proposal. This proposal is valid and will be honored for a period of one hundred eighty (180) days following the proposal opening.

THIS SECTION MUST BE COMPLETED, SIGNED, AND RETURNED WITH RESPONDENT'S PROPOSAL. FAILURE TO SIGN AND RETURN THIS SECTION WILL RESULT IN DISQUALIFICATION OF YOUR FIRM.

1. By signature hereon, Respondent offers and agrees to furnish the products and/or services in compliance with all terms, conditions, requirements set forth per the RFP documents and contained herein.
2. By signature hereon, Respondent affirms that it has not given, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with the submitted proposal. Failure to sign hereon, or signing with a false statement, shall void the submitted proposal or any resulting contracts, and the Respondent shall be removed from all proposal lists at this Agency.
3. By signature hereon, a corporate Respondent certifies that it is not currently delinquent in the payment of any Franchise Taxes due under Chapter 171, Texas Tax Code, or that the corporation is exempt from the payment of such taxes, or that the corporation is an out-of-state corporation that is not subject to the Texas Franchise Tax, whichever is applicable. A false certification shall be deemed a material breach of contract and, at UNTS's option, may result in cancellation of any resulting contract or purchase order.
4. By signature hereon, the Respondent hereby certifies that neither the Respondent nor the firm, corporation, partnership or institution represented by the Respondent, or anyone acting for such firm, corporation, or institution has violated the antitrust laws of this state, codified in Section 15.01, et. seq., Texas Business and Commerce Code, or the Federal antitrust laws, nor communicated directly or indirectly the proposal made to any competitor or any other person engaged in such line of business.
5. By signature hereon, Respondent certifies that all statements and information prepared and submitted in response to this solicitation are current, complete and accurate.
6. By signature hereon, Respondent certifies that the individual signing this document and the documents made part of the RFP is authorized to sign such documents on behalf of the company and to bind the company under any contract which may result from the submission of this proposal. Unsigned responses will not be considered under any circumstances.
7. By signature hereon, Respondent certifies that if a Texas address is shown as the address of the Respondent, Respondent qualifies as a Texas Resident Respondent as defined in Texas Administrative Code (TAC) Title 34. In the case of a tie, the award will be made in accordance with TAC, Title 34, amended. Check below preference claimed under TAC, Title 34, amended:

- Supplies, materials, or equipment produced in Texas/offered by Texas bidders
- Agricultural products produced or grown in Texas
- Agricultural products and services offered by Texas bidders
- USA produced supplies, materials, or equipment
- Products of persons with mental or physical disabilities
- Recycled, remanufactured, or environmentally sensitive products, including recycled steel products
- Energy efficient products
- Rubberized asphalt paving material
- Recycled motor oil and lubricants
- Products produced at facilities located on formerly contaminated property
- Products and services from economically depressed or blighted areas
- Vendors that meet or exceed air quality standards

Consistent and continued tie Responses could cause rejection of offers by UNTS and/or investigation for antitrust violations.

8. By signature hereon, Respondent certifies it is a small business and/or minority/female owned business as defined by the State of Texas. Check status below:

- Historically Underutilized Business
- Small Business (House Bill 366, 64th Legislature)
- Minority/Female Owned Business (House Bill 2626, 73rd Legislature)
- Certified by Texas Department of Commerce
- Status not claimed

9. By signature hereon, Respondent certifies as follows:

“Under Section 231.006, Texas Family Code, the vendor or applicant certifies that the individual or business entity named in this contract, bid, or application is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate.”

“Under Section 2155.004, Texas Government Code, the vendor or applicant certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate.”

10. By signature hereon, Respondent certifies that no relationship, whether by relative, business associate, capital funding agreement or by any other such kinship, exist between Respondent and an employee of any UNTS component, or Respondent has not been an employee of any UNTS component within the immediate twelve (12) months prior to RFP response. All such disclosures will be subject to administrative review and approval prior to UNTS entering into any contract with Respondent.

11. Respondent certifies that they are in compliance with Section 669.003 of the Texas Government Code, relating to contracting with the executive head of a State agency. If Section 669.003 applies, respondent will complete the following information in order for the response to be evaluated:

Name of former Executive: _____

Name of State Agency: _____

Date of separation from State agency: _____

Position with Respondent: _____ Date of employment with Respondent: _____

12. By signature hereon, Respondent affirms that no compensation has been received for participation in the preparation of the specifications for this RFP. (ref. Section 2155.004, Texas Government Code).

13. Respondent represents and warrants that all articles and services quoted in response to this RFP meet or exceed the safety standards established and promulgated under the Federal Occupational Safety and Health Law (Public Law 91-596) and its regulations in effect or proposed as of the date of this solicitation.

14. **Suspension, Debarment, and Terrorism:** Respondent further certifies that the Respondent and its principals are eligible to participate in this transaction and have not been subjected to suspension, debarment, or similar ineligibility determined by any federal, state or local governmental entity and that Respondent is in compliance with the State of Texas statutes and rules relating to procurement and that Respondent is not listed on the federal government’s terrorism watch list as described in Executive Order 13224. Entities ineligible for federal procurement are listed at <http://www.epls.gov>.

15. By signature hereon, Respondent signifies his compliance with all federal laws and regulations pertaining to Equal Employment Opportunities and Affirmative Action.

16. By signature hereon, Respondent will comply with and agree to use E-Verify System in accordance with State of Texas Executive Order RP-80 throughout this project as appropriate.

17. Respondent affirmatively states that it does not boycott Israel, pursuant to Texas Gov’t Code, Section 2270.002. Additionally, Respondent shall not engage in a boycott of Israel during the term of this agreement.

18. Respondent hereby represents, verifies, and warrants, pursuant to Texas Gov't Code 2272.02, that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and will not discriminate against a firearm entity or firearm trade association during the term of this agreement.
19. Respondent hereby represents, verifies, and warrants, pursuant to Texas Gov't Code 2274.02, that it does not boycott energy companies and will not boycott energy companies during the term of this agreement.
20. By signature hereon, Respondent hereby represents, verifies, and warrants, pursuant to Texas Gov't Code 2252.201-2252.205, that it is in compliance with the requirement that any iron or steel project produced through a manufacturing process and used in the Project is produced in the United States.
21. Respondents should give Payee ID Number, full firm name, and address of Respondent below in the space provided. The Payee ID Number is the taxpayer number assigned and used by the Texas Comptroller of Public Accounts. If this number is not known, complete the Federal Employer's Identification Number.

Complete the following:

Payee ID No. _____

If a Corporation
State of Incorporation: _____

FEI No. _____

Charter No: _____

Company Information:

Submitted by:

(Company Name)

(Authorized Signature)

(Street Address Line 1)

(Printed Name/Title)

(Street Address Line 2)

(Date)

(City, State, Zip Code)

(Telephone Number)

(Facsimile Number)

(Email Address)

**ATTACHMENT A
QUALIFICATIONS
RFCSP752-24-3594-14556CS
Union Corner Store Renovation**

ITEMS 1 THROUGH 5 TO BE SUBMITTED WITH PROPOSAL

Proposer's Name: _____

Point of Contact: _____

Address: _____

City, State, Zip: _____

Telephone No.: _____ Fax No. _____

Email: _____

State Comptroller Vendor Identification Number: _____

1. GENERAL

- A. Qualification information submitted shall be applicable only to the company entity or branch that will perform this Work.
- B. Attach your Project Organization Chart and resumes of individuals who would be assigned to this project.
- C. Proposed demolition schedule (Bar chart acceptable).

2. HISTORY

- A. Corporation Partnership Sole Proprietorship Joint Venture

State of Incorporation: _____

- B. In continuous business since: _____

Remarks (if required):

- C. Corporate Officers, Partners or Owners of Organization:

<u>Name</u>	<u>Branch Manager</u>	<u>Telephone Number</u>
-------------	-----------------------	-------------------------

- D. Check box(es) corresponding to the nature of your business:

- Large Business (100 or more employees)
 Small Business (fewer than 100 employees)
 HUB Business
 Other (Define) _____

- E. Has your organization ever defaulted or failed to complete any work awarded?

- Yes No

If yes, stipulate where and why: _____

- F. Has your organization ever paid liquidated damages or a penalty for failure to complete a contract on time?

- Yes No

If yes, stipulate where and why: _____

3. EXPERIENCE

A. Normally performs _____ % of the work with own forces. List trades below:

B. Propose to perform _____ % of the work for project with own forces. List trades below:

C. List all major projects of your organization has in-progress. If more space is needed attach pages to this form using format below identified by item and sub-item:

i. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Architect Reference Contact and Telephone Number:

ii. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Architect Reference Contact and Telephone Number:

iii. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Architect Reference Contact and Telephone Number:

D. Total number and dollar amount of contracts currently in progress:

Number _____ \$ _____

E. Largest contract currently in-process: _____

Anticipated date of completion: _____

F. Volume of work completed over last five (5) years: (Through 12/31)

Year	_____	\$ _____
	_____	\$ _____
	_____	\$ _____
	_____	\$ _____
	_____	\$ _____

G. List five (5) major projects of similar scope your organization has completed in the last five (5) years with completion date, photos and references. Other projects of particular significance may also be listed.

i. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Name Telephone Number

Architect Reference Contract and Telephone Number:

Name Telephone Number

ii. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Name Telephone Number

Architect Reference Contract and Telephone Number:

Name Telephone Number

iii. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Name Telephone Number

Architect Reference Contract and Telephone Number:

Name Telephone Number

iv. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Name Telephone Number

Architect Reference Contract and Telephone Number:

Name Telephone Number

v. Name, Location and Description of Project: _____

Contract Amount: _____

Percent Complete: _____

Project Completion Date: _____

Owner Reference Contact and Telephone Number:

Name Telephone Number

Architect Reference Contract and Telephone Number:

Name Telephone Number

H. Has your organization had any claims and/or litigations in the last five (5) years?

If yes, attach a list with project name, date or project, owner, owner's contact person with telephone number and summary explanation.

4. SAFETY PROGRAM

- A. List your organization's Workers Compensation Experience Modification Rate (EMR) for the last three (3) years, as obtained from your insurance agent.

YEAR			
EMR			

- B. Complete matrix for the three (3) past years, as obtained from OSHA N. 200 Log:

Year			
Number of injuries and illness			
Number of lost time accidents			
Number of recordable cases			
Number of fatalities			
Total Injury & illness rate from OSHA 300 log			

Please provide your SIC Code _____

- C. Are regular project safety meetings held for Field Supervisor(s)?

Yes No

If yes, frequency:

Weekly Bi-monthly Monthly As Needed

- D. Are project safety inspections conducted? Yes No

If yes, who performs inspection?

How often?

- E. Does organization have a written safety program? Yes No

If yes, provide a copy. It will become a compliance document upon contract award.

- F. Does your organization have a safety orientation program for new employees? Yes No

For employees promoted to Field Supervisors? Yes No

If yes, does your Supervisor Safety Program include instructions on the following:

	Yes	No
Safety work practices	<input type="checkbox"/>	<input type="checkbox"/>
Tool box safety meetings	<input type="checkbox"/>	<input type="checkbox"/>
First aid procedures	<input type="checkbox"/>	<input type="checkbox"/>
Accident investigation	<input type="checkbox"/>	<input type="checkbox"/>
Fire protection	<input type="checkbox"/>	<input type="checkbox"/>
New worker's orientation	<input type="checkbox"/>	<input type="checkbox"/>

5. FINANCIAL

A. Attach an audited Financial Statement, including a profit and loss statement and other supporting schedules. If the last audited statement is over twelve (12) months old, include the most current unaudited statement.

B. Surety Company: _____

Agent: _____

Name of Contact: _____ Telephone No. _____

C. Bonding Capacity: _____

Limit per project: _____

Unencumbered bonding capacity: _____

D. Trade References (Additional references may be included as attached sheets.)

i. Organization: _____

Agent: _____

Name of Contract: _____ Telephone No. _____

ii. Organization: _____

Agent: _____

Name of Contract: _____ Telephone No. _____

iii. Organization: _____

Agent: _____

Name of Contract: _____ Telephone No. _____



HUB Subcontracting Plan (HSP) QUICK CHECKLIST

While this HSP Quick Checklist is being provided to merely assist you in readily identifying the sections of the HSP form that you will need to complete, it is very important that you adhere to the instructions in the HSP form and instructions provided by the contracting agency.

- **If you will be awarding all of the subcontracting work you have to offer under the contract to only Texas certified HUB vendors, complete:**
 - Section 1 - Respondent and Requisition Information
 - Section 2 a. - Yes, I will be subcontracting portions of the contract.
 - Section 2 b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors.
 - Section 2 c. - Yes
 - Section 4 - Affirmation
 - GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2 b.
- **If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you do not have a continuous contract* in place for more than five (5) years meets or exceeds the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:**
 - Section 1 - Respondent and Requisition Information
 - Section 2 a. - Yes, I will be subcontracting portions of the contract.
 - Section 2 b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors.
 - Section 2 c. - No
 - Section 2 d. - Yes
 - Section 4 - Affirmation
 - GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2 b.
- **If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors or only to Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you do not have a continuous contract* in place for more than five (5) years does not meet or exceed the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:**
 - Section 1 - Respondent and Requisition Information
 - Section 2 a. - Yes, I will be subcontracting portions of the contract.
 - Section 2 b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors.
 - Section 2 c. - No
 - Section 2 d. - No
 - Section 4 - Affirmation
 - GFE Method B (Attachment B) - Complete an Attachment B for each of the subcontracting opportunities you listed in Section 2 b.
- **If you will not be subcontracting any portion of the contract and will be fulfilling the entire contract with your own resources (i.e., employees, supplies, materials and/or equipment), complete:**
 - Section 1 - Respondent and Requisition Information
 - Section 2 a. - No, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources.
 - Section 3 - Self Performing Justification
 - Section 4 - Affirmation

***Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service, to include under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.



HUB Subcontracting Plan (HSP)

In accordance with Texas Gov't Code §2161.252, the contracting agency has determined that subcontracting opportunities are probable under this contract. Therefore, all respondents, including State of Texas certified Historically Underutilized Businesses (HUBs) must complete and submit this State of Texas HUB Subcontracting Plan (HSP) with their response to the bid requisition (solicitation).

NOTE: Responses that do not include a completed HSP shall be rejected pursuant to Texas Gov't Code §2161.252(b).

The HUB Program promotes equal business opportunities for economically disadvantaged persons to contract with the State of Texas in accordance with the goals specified in the 2009 State of Texas Disparity Study. The statewide HUB goals defined in 34 Texas Administrative Code (TAC) §20.284 are:

- **11.2 percent for heavy construction other than building contracts,**
- **21.1 percent for all building construction, including general contractors and operative builders' contracts,**
- **32.9 percent for all special trade construction contracts,**
- **23.7 percent for professional services contracts,**
- **26.0 percent for all other services contracts, and**
- **21.1 percent for commodities contracts.**

- - Agency Special Instructions/Additional Requirements - -

*In accordance with 34 TAC §20.285(d)(1)(D)(iii), a respondent (prime contractor) may demonstrate good faith effort to utilize Texas certified HUBs for its subcontracting opportunities if the total value of the respondent's subcontracts with Texas certified HUBs meets or exceeds the statewide HUB goal or the agency specific HUB goal, whichever is higher. When a respondent uses this method to demonstrate good faith effort, the respondent must identify the HUBs with which it will subcontract. If using existing contracts with Texas certified HUBs to satisfy this requirement, only the aggregate percentage of the contracts expected to be subcontracted to HUBs with which the respondent **does not** have a **continuous contract*** in place for **more than five (5) years** shall qualify for meeting the HUB goal. This limitation is designed to encourage vendor rotation as recommended by the 2009 Texas Disparity Study.*

SECTION 1: RESPONDENT AND REQUISITION INFORMATION

- a. Respondent (Company) Name: _____ State of Texas VID #: _____
 Point of Contact: _____ Phone #: _____
 E-mail Address: _____ Fax #: _____
- b. Is your company a State of Texas certified HUB? - Yes - No
- c. Requisition #: _____ Bid Open Date: _____

(mm/dd/yyyy)

Enter your company's name here: _____ Requisition #: _____

SECTION 2: RESPONDENT'S SUBCONTRACTING INTENTIONS

After dividing the contract work into reasonable lots or portions to the extent consistent with prudent industry practices, and taking into consideration the scope of work to be performed under the proposed contract, including all potential subcontracting opportunities, the respondent must determine what portions of work, **including contracted staffing, goods and services will be subcontracted**. Note: In accordance with 34 TAC §20.282, a "Subcontractor" means a person who contracts with a prime contractor to work, to supply commodities, or to contribute toward completing work for a governmental entity.

a. Check the appropriate box (Yes or No) that identifies your subcontracting intentions:

- *Yes*, I will be subcontracting portions of the contract. (If *Yes*, complete Item b of this SECTION and continue to Item c of this SECTION.)
- *No*, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources, including employees, goods and services. (If *No*, continue to SECTION 3 and SECTION 4.)

b. List all the portions of work (subcontracting opportunities) you will subcontract. Also, based on the total value of the contract, identify the percentages of the contract you expect to award to Texas certified HUBs, and the percentage of the contract you expect to award to vendors that are not a Texas certified HUB (i.e., Non-HUB).

Item #	Subcontracting Opportunity Description	HUBs		Non-HUBs
		Percentage of the contract expected to be subcontracted to HUBs with which you do not have a continuous contract* in place for more than five (5) years .	Percentage of the contract expected to be subcontracted to HUBs with which you have a continuous contract* in place for more than five (5) years .	Percentage of the contract expected to be subcontracted to non-HUBs.
1		%	%	%
2		%	%	%
3		%	%	%
4		%	%	%
5		%	%	%
6		%	%	%
7		%	%	%
8		%	%	%
9		%	%	%
10		%	%	%
11		%	%	%
12		%	%	%
13		%	%	%
14		%	%	%
15		%	%	%
Aggregate percentages of the contract expected to be subcontracted:		%	%	%

(Note: If you have more than fifteen subcontracting opportunities, a continuation sheet is available online at <https://www.comptroller.texas.gov/purchasing/vendor/hub/forms.php>.)

c. Check the appropriate box (Yes or No) that indicates whether you will be using **only** Texas certified HUBs to perform **all** of the subcontracting opportunities you listed in SECTION 2, Item b.

- *Yes* (If *Yes*, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method A (Attachment A)" for **each** of the subcontracting opportunities you listed.)
- *No* (If *No*, continue to Item d, of this SECTION.)

d. Check the appropriate box (Yes or No) that indicates whether the aggregate expected percentage of the contract you will subcontract **with Texas certified HUBs** with which you **do not** have a **continuous contract*** in place with for **more than five (5) years**, **meets or exceeds** the HUB goal the contracting agency identified on page 1 in the "Agency Special Instructions/Additional Requirements."

- *Yes* (If *Yes*, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method A (Attachment A)" for **each** of the subcontracting opportunities you listed.)
- *No* (If *No*, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method B (Attachment B)" for **each** of the subcontracting opportunities you listed.)

***Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.

Enter your company's name here: _____

Requisition #: _____

SECTION 2: RESPONDENT'S SUBCONTRACTING INTENTIONS (CONTINUATION SHEET)

This page can be used as a continuation sheet to the HSP Form's page 2, Section 2, Item b. Continue listing the portions of work (subcontracting opportunities) you will subcontract. Also, based on the total value of the contract, identify the percentages of the contract you expect to award to Texas certified HUBs, and the percentage of the contract you expect to award to vendors that are not a Texas certified HUB (i.e., Non-HUB).

Item #	Subcontracting Opportunity Description	HUBs		Non-HUBs
		Percentage of the contract expected to be subcontracted to HUBs with which you do not have a continuous contract* in place for more than five (5) years .	Percentage of the contract expected to be subcontracted to HUBs with which you have a continuous contract* in place for more than five (5) years .	Percentage of the contract expected to be subcontracted to non-HUBs.
16		%	%	%
17		%	%	%
18		%	%	%
19		%	%	%
20		%	%	%
21		%	%	%
22		%	%	%
23		%	%	%
24		%	%	%
25		%	%	%
26		%	%	%
27		%	%	%
28		%	%	%
29		%	%	%
30		%	%	%
31		%	%	%
32		%	%	%
33		%	%	%
34		%	%	%
35		%	%	%
36		%	%	%
37		%	%	%
38		%	%	%
39		%	%	%
40		%	%	%
41		%	%	%
42		%	%	%
43		%	%	%
Aggregate percentages of the contract expected to be subcontracted:		%	%	%

***Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.

Enter your company's name here: _____ Requisition #: _____

SECTION 3: SELF PERFORMING JUSTIFICATION (If you responded "No" to SECTION 2, Item a, you must complete this SECTION and continue to SECTION 4.) If you responded "No" to SECTION 2, Item a, in the space provided below **explain how** your company will perform the entire contract with its own employees, supplies, materials and/or equipment.

SECTION 4: AFFIRMATION

As evidenced by my signature below, I affirm that I am an authorized representative of the respondent listed in SECTION 1, and that the information and supporting documentation submitted with the HSP is true and correct. Respondent understands and agrees that, if awarded any portion of the requisition:

- The respondent will provide notice as soon as practical to all the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor for the awarded contract. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity they (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten (10) working days after the contract is awarded.
- The respondent must submit monthly compliance reports (Prime Contractor Progress Assessment Report – PAR) to the contracting agency, verifying its compliance with the HSP, including the use of and expenditures made to its subcontractors (HUBs and Non-HUBs). (The PAR is available at <https://www.comptroller.texas.gov/purchasing/docs/hub-forms/ProgressAssessmentReportForm.xls>).
- The respondent must seek approval from the contracting agency prior to making any modifications to its HSP, including the hiring of additional or different subcontractors and the termination of a subcontractor the respondent identified in its HSP. If the HSP is modified without the contracting agency's prior approval, respondent may be subject to any and all enforcement remedies available under the contract or otherwise available by law, up to and including debarment from all state contracting.
- The respondent must, upon request, allow the contracting agency to perform on-site reviews of the company's headquarters and/or work-site where services are being performed and must provide documentation regarding staffing and other resources.

Signature	Printed Name	Title	Date <small>(mm/dd/yyyy)</small>
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Reminder:

- If you responded "Yes" to SECTION 2, Items c or d, you must complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.
- If you responded "No" SECTION 2, Items c and d, you must complete an "HSP Good Faith Effort - Method B (Attachment B)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.

HSP Good Faith Effort - Method B (Attachment B)

Rev. 2/17

Enter your company's name here: _____	Requisition #: _____
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IMPORTANT: If you responded “No” to **SECTION 2, Items c and d** of the completed HSP form, you must submit a completed “HSP Good Faith Effort - Method B (Attachment B)” for **each** of the subcontracting opportunities you listed in **SECTION 2, Item b** of the completed HSP form. You may photo-copy this page or download the form at <https://www.comptroller.texas.gov/purchasing/docs/hub-forms/hub-sbcont-plan-gfe-achm-b.pdf>.

SECTION B-1: SUBCONTRACTING OPPORTUNITY

Enter the item number and description of the subcontracting opportunity you listed in SECTION 2, Item b, of the completed HSP form for which you are completing the attachment.

Item Number: _____ Description: _____

SECTION B-2: MENTOR PROTÉGÉ PROGRAM

If respondent is participating as a Mentor in a State of Texas Mentor Protégé Program, submitting its Protégé (Protégé must be a State of Texas certified HUB) as a subcontractor to perform the subcontracting opportunity listed in **SECTION B-1**, constitutes a good faith effort to subcontract with a Texas certified HUB towards that specific portion of work.

Check the appropriate box (Yes or No) that indicates whether you will be subcontracting the portion of work you listed in SECTION B-1 to your Protégé.

- Yes (If *Yes*, continue to SECTION B-4.)
- No / Not Applicable (If *No* or *Not Applicable*, continue to SECTION B-3 and SECTION B-4.)

SECTION B-3: NOTIFICATION OF SUBCONTRACTING OPPORTUNITY

When completing this section you **MUST** comply with items **a, b, c and d**, thereby demonstrating your Good Faith Effort of having notified Texas certified HUBs and trade organizations or development centers about the subcontracting opportunity you listed in SECTION B-1. Your notice should include the scope of work, information regarding the location to review plans and specifications, bonding and insurance requirements, required qualifications, and identify a contact person. When sending notice of your subcontracting opportunity, you are encouraged to use the attached HUB Subcontracting Opportunity Notice form, which is also available online at <https://www.comptroller.texas.gov/purchasing/docs/hub-forms/HUBSubcontractingOpportunityNotificationForm.pdf>.

Retain supporting documentation (i.e., certified letter, fax, e-mail) demonstrating evidence of your good faith effort to notify the Texas certified HUBs and trade organizations or development centers. Also, be mindful that a working day is considered a normal business day of a state agency, not including weekends, federal or state holidays, or days the agency is declared closed by its executive officer. The initial day the subcontracting opportunity notice is sent/provided to the HUBs and to the trade organizations or development centers is considered to be “day zero” and does not count as one of the seven (7) working days.

- a.** Provide written notification of the subcontracting opportunity you listed in SECTION B-1, to three (3) or more Texas certified HUBs. Unless the contracting agency specified a different time period, you must allow the HUBs at least seven (7) working days to respond to the notice prior to you submitting your bid response to the contracting agency. When searching for Texas certified HUBs and verifying their HUB status, ensure that you use the State of Texas’ Centralized Master Bidders List (CMBL) - Historically Underutilized Business (HUB) Directory Search located at <http://mycpa.cpa.state.tx.us/tpasscmbsearch/index.jsp>. HUB status code “A” signifies that the company is a Texas certified HUB.
- b.** List the **three (3) Texas certified HUBs** you notified regarding the subcontracting opportunity you listed in SECTION B-1. Include the company’s Texas Vendor Identification (VID) Number, the date you sent notice to that company, and indicate whether it was responsive or non-responsive to your subcontracting opportunity notice.

Company Name	Texas VID <small>(Do not enter Social Security Numbers.)</small>	Date Notice Sent <small>(mm/dd/yyyy)</small>	Did the HUB Respond?
			- Yes - No
			- Yes - No
			- Yes - No

- c.** Provide written notification of the subcontracting opportunity you listed in SECTION B-1 to **two (2)** or more trade organizations or development centers in Texas to assist in identifying potential HUBs by disseminating the subcontracting opportunity to their members/participants. Unless the contracting agency specified a different time period, you must provide your subcontracting opportunity notice to trade organizations or development centers at least seven (7) working days prior to submitting your bid response to the contracting agency. A list of trade organizations and development centers that have expressed an interest in receiving notices of subcontracting opportunities is available on the Statewide HUB Program’s webpage at <https://www.comptroller.texas.gov/purchasing/vendor/hub/resources.php>.

- d.** List **two (2) trade organizations or development centers** you notified regarding the subcontracting opportunity you listed in SECTION B-1. Include the date when you sent notice to it and indicate if it accepted or rejected your notice.

Trade Organizations or Development Centers	Date Notice Sent <small>(mm/dd/yyyy)</small>	Was the Notice Accepted?
		- Yes - No
		- Yes - No

HSP Good Faith Effort - Method B (Attachment B) Cont.

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Enter your company's name here: _____	Requisition #: _____
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SECTION B-4: SUBCONTRACTOR SELECTION

Enter the item number and description of the subcontracting opportunity you listed in **SECTION 2, Item b**, of the completed HSP form for which you are completing the attachment.

a. Enter the item number and description of the subcontracting opportunity for which you are completing this Attachment B continuation page.
 Item Number: _____ Description: _____

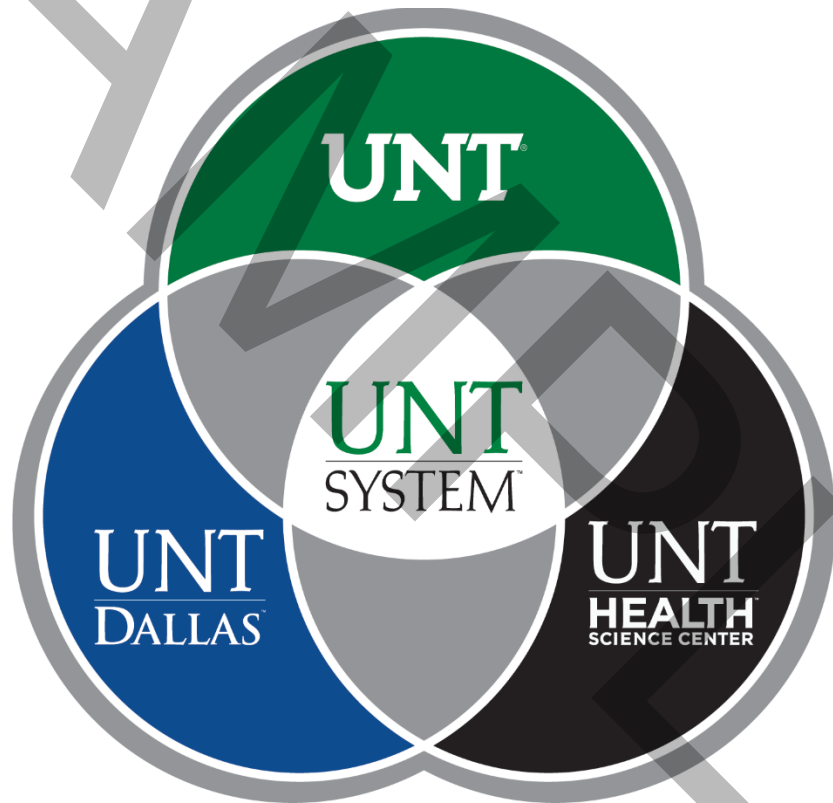
b. List the subcontractor(s) you selected to perform the subcontracting opportunity you listed in **SECTION B-1**. Also identify whether they are a Texas certified HUB and their Texas Vendor Identification (VID) Number or federal Employer Identification Number (EIN), the approximate dollar value of the work to be subcontracted, and the expected percentage of work to be subcontracted. When searching for Texas certified HUBs and verifying their HUB status, ensure that you use the State of Texas' Centralized Master Bidders List (CMBL) - Historically Underutilized Business (HUB) Directory Search located at <http://mycpa.cpa.state.tx.us/tpasscmbsearch/index.jsp>. HUB status code "A" signifies that the company is a Texas certified HUB.

Company Name	Texas certified HUB	Texas VID or federal EIN <small>Do not enter Social Security Numbers. If you do not know their VID / EIN, leave their VID / EIN field blank.</small>	Approximate Dollar Amount	Expected Percentage of Contract
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%
	- Yes - No		\$	%

c. If any of the subcontractors you have selected to perform the subcontracting opportunity you listed in **SECTION B-1** is **not** a Texas certified HUB, provide written justification for your selection process (attach additional page if necessary):

REMINDER: As specified in SECTION 4 of the completed HSP form, if you (respondent) are awarded any portion of the requisition, you are required to provide notice as soon as practical to **all** the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity it (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten (10) working days after the contract is awarded.

GENERAL CONSTRUCTION AGREEMENT



GENERAL CONSTRUCTION AGREEMENT

(For Use with Competitive Sealed Proposals)

This Agreement is made and entered into by and between **University of North Texas {System or Institution Name}** (“Owner”), and by **{Firm Name}** (“Contractor”), duly authorized by the laws of the State of Texas to act as contractor for construction, rehabilitation, alteration, or repair services. The capitalized term “Party” refers to either Owner or Contractor individually and the term “Parties” refers to Owner and Contractor collectively. The effective date (“Effective Date”) of this Agreement shall be the date of last signature by the parties hereto.

ARTICLE 1 PROJECT

1.1 Owner does hereby engage Contractor and Contractor does hereby agree to provide all labor, materials, equipment, and services necessary to complete the Work, all of which shall be provided in full accord with the Contract Documents to construct the {Project Name} (“Project”), on the {Campus}, to be completed in accordance with the requirements herein, and generally described as follows:

{General Description of the Project}

1.2 Contractor has overall responsibility for and shall furnish all materials, equipment, tools, and labor as necessary or reasonably inferable to complete the Work, or any phase of the Work, in accordance with Owner’s requirements and the terms of the Contract Documents.

ARTICLE 2 CONTRACT DOCUMENTS

2.1 Owner, through its Design Professional, shall provide all architectural and engineering design services necessary for the completion of the Work. The Drawings, Specifications, and addenda have been prepared for Owner by {Architect/Engineer} (“Design Professional”).

2.2 The Contract Documents consist of:

- 2.2.1 This Agreement and all exhibits and attachments listed, contained or referenced in this Agreement;
- 2.2.2 The Uniform General Conditions for Construction and Design Contracts for the University of North Texas System (“Uniform General Conditions” or “UGC”);
- 2.2.3 Supplementary General Conditions or Special Conditions, if any;
- 2.2.4 Owner’s Specifications;
- 2.2.5 All Addenda issued prior to the Effective Date of this Agreement;
- 2.2.6 All Change Orders issued after the Effective Date of this Agreement;
- 2.2.7 The Drawings, Specifications, details and other documents developed by Design Professional to describe the Project and accepted by Owner;
- 2.2.8 The Drawings and Specifications developed or prepared by Owner’s other consultants, if any, and accepted by Owner; and

- 2.2.9 The Historically Underutilized Business (HUB) subcontracting plan submitted or amended by Contractor and approved by Owner for this Project.
- 2.3 The Contract Documents form the entire and integrated agreement between Owner and Contractor and supersede all prior negotiations, representations or agreements, written or oral.
- 2.4 To the extent the terms of this Agreement conflict with the Uniform General Conditions and/or the Supplemental Conditions, the terms of this Agreement will control.
- 2.5 If there is an irreconcilable conflict between or among the various documents that make up the Contract Documents, the interpretation that provides for the higher quality of material and/or workmanship will prevail over all other interpretations.

ARTICLE 3 DEFINITIONS

- 3.1 Terms, words, and phrases used in the Contract Documents shall have the meanings given in the Uniform General Conditions.
- 3.2 The following terms, words, and phrases used in the Contract Documents shall have the following meanings, and if more specific than the definition given in the Uniform General Condition, the more specific given in this Agreement shall control.
- 3.2.1 "Baseline Schedule" means the initial time schedule prepared by Contractor for Owner's information and acceptance that conveys Contractor's and Subcontractors' activities (including coordination and review activities required in the Contract Documents to be performed by the Design Professional and Owner), durations, and sequence of work related to the entire Project to the extent required by the Contract Documents. The schedule shall clearly demonstrate the longest path of activities, critical activities durations, and necessary predecessor conditions that drive the end date of the schedule. The accepted Construction Baseline Schedule shall not change.
- 3.2.2 "Design Professional" means licensed professionals, or firms employing such licensed professionals, engaged by Owner as independent architects or engineers for design of all or a portion of the Project and to prepare Drawings and Specifications for the construction of the Project. More than one such professional or firm may be employed by Owner, and all such professionals or firms, regardless of number, are referred to in the singular herein.
- 3.2.3 "Longest Path" means the sequence of directly related activities that comprise the longest continuous chain of activities from the start of the first activity to the finish of the last activity. Each activity in the Longest Path is critical and directly related in that it prevents its successor from being scheduled earlier than it is. For this Project, "Longest Path" shall also include ten percent (10%) Total Float and Weather Days.
- 3.2.4 "Subcontractor" means a person or entity who has an agreement with Contractor to perform any portion of the Work. The term Subcontractor does not include the Design Professional or any person or entity hired directly by Owner.
- 3.2.5 "Work" means the provision of all services, labor, materials, supplies, and equipment that are required of Contractor to complete the Project in strict accordance with the requirements of the Agreement and the Construction Documents. Work includes, but is not limited to, the construction services, additional work required by Change Orders, and any other work reasonably inferable from the Construction Documents. The term "reasonably inferable" takes into consideration the understanding of the parties that some details necessary for completion of the Work may not be shown on the Drawings or included in the Specifications, but they are a requirement of the Work if they are a

usual and customary component of the Work or otherwise necessary for complete installation and operation of the Work.

ARTICLE 4 CONTRACTOR'S RESPONSIBILITIES

- 4.1 Contractor's responsibilities include but are not limited to supervision, furnishing labor, materials, equipment, employment of and responsibility for subcontractors, payment of taxes where applicable, patent fees, royalties, approval fees, license fees, permit fees, filing fees, registration fees, and other governmental charges.
- 4.2 Contractor represents that it is an independent contractor and that it is familiar with the type of Work it is undertaking. Contractor shall furnish construction administration and management services and use Contractor's diligent efforts to perform the Work in an expeditious manner consistent with the Contract Documents. Contractor will cause all persons connected with Contractor directly in charge of the Work to be duly registered and/or licensed under all applicable laws.
- 4.3 Neither Contractor nor any of its agents or employees shall act on behalf of or in the name of Owner except as provided in this Agreement or unless authorized in writing by Owner's Representative.
- 4.4 Contractor shall be responsible for the supervision and coordination of the Work, including the construction means, methods, techniques, sequences, procedures, safety provisions, precautions, and programs utilized, unless the Contract Documents give other specific instructions. In such case, Contractor shall not be liable to Owner for damages resulting from compliance with such instructions unless Contractor recognized and failed to timely report to Owner any error, inconsistency, omission, or unsafe practice that it discovered in the specified construction means, methods, techniques, sequences, procedures, safety provisions, precautions, or programs.
- 4.5 Contractor shall perform Work only within locations allowed by the Contract Documents, applicable laws and regulations, and applicable permits. Laws and regulations include federal, state, and local laws, ordinances, codes, rules, and regulations applicable to the Work that are enacted as of the Agreement date, with which the Constructor must comply.
- 4.6 Contractor shall: (a) proceed with the Work in a manner that does not hinder, delay, or interfere with the work of Owner or others or cause the work of Owner or others to become defective; (b) afford Owner or others reasonable access for introduction and storage of their materials and equipment and performance of their activities; and (c) coordinate Contractor's Work with the work of Owner and others.
- 4.7 Before proceeding with any portion of the Work affected by the construction or operations of Owner or others, Contractor shall give Owner written notification within forty-eight (48) hours of any defects Contractor discovers in Owner's or other's performance or work, which will prevent the proper execution of the Work. Contractor's obligations in this subsection do not create a responsibility for the performance or work of Owner or others, but are for the purpose of facilitating the Work. If Contractor does not notify Owner of defects interfering with the performance of the Work, Contractor acknowledges that the performance or work of Owner or others is not defective and is acceptable for the proper execution of the Work. Following receipt of written notice from Contractor of defects, Owner shall promptly inform Contractor what action, if any, Contractor shall take with regard to the defects.
- 4.8 Prior to commencing the Work, Contractor shall examine and compare the Drawings and Specifications with information furnished by Owner, relevant field measurements made by Contractor, and any visible conditions at the site affecting the Work. During the visit to the site, Contractor shall inspect the existing facilities, systems and conditions to ensure an accurate understanding of the existing conditions as required.

- 4.9 Should Contractor discover any discrepancies, errors, omissions, or inconsistencies in the Contract Documents, Contractor shall report them to Owner within forty-eight (48) hours of discovery. It is recognized, however, that Contractor is not acting in the capacity of a licensed design professional, and that Contractor's examination is to facilitate construction and does not create an affirmative responsibility to detect discrepancies, errors, omissions, or inconsistencies or to ascertain compliance with applicable laws and regulations, including building codes. Following receipt of written notice from Contractor of defects, Owner shall promptly inform Contractor what action, if any, Contractor shall take with regard to the defects.
- 4.9.1 Contractor shall have no liability for discrepancies, errors, omissions, or inconsistencies discovered under this section unless Contractor fails to promptly report a discovered or apparent discrepancy, error, omission, or inconsistency to Owner. This does not relieve Contractor of responsibility for its own discrepancies, errors, inconsistencies, or omissions.
- 4.10 Contractor shall provide competent supervision for the performance of the Work. Before commencing the Work, Contractor shall notify Owner in writing of the name and qualifications of its proposed superintendent(s) and project manager, so Owner may review the individual's qualifications. If, for reasonable cause, Owner refuses to approve the individual, or withdraws its approval after giving it, Contractor shall name a different superintendent or project manager for Owner's review. Any disapproved superintendent shall not perform in that capacity thereafter at the site. Contractor's superintendent(s) and project manager shall possess full authority to receive instructions from Owner and to act on those instructions. If Contractor changes its superintendent(s) or project manager or their authority, Contractor shall immediately notify Owner in writing.
- 4.11 Contractor shall be responsible to Owner for acts or omissions of parties or entities performing portions of the Work for or on behalf of Contractor or any of its Subcontractors.
- 4.12 Contractor shall permit only qualified persons to perform the Work. Contractor shall enforce safety procedures, strict discipline, and good order among persons performing the Work.
- 4.13 Contractor shall submit to Owner and the Design Professional all shop drawings, samples, product data, and similar submittals required by the Contract Documents for review and approval. Submittals shall be submitted in accordance with the Uniform General Conditions. Contractor shall be responsible for the accuracy and conformity of its submittals to the Contract Documents requirements.
- 4.14 Contractor acknowledges that it has visited, or has had the opportunity to visit, the site to visually inspect the general and local conditions of the facilities, systems and conditions to ensure an accurate understanding of the existing conditions which could affect the Work.
- 4.15 The Work shall be executed in accordance with the Contract Documents and Contractor agrees that (a) it will use its best efforts to perform the Work in a good and workmanlike manner and in accordance with the highest standards of Contractor's profession or business, and (b) all the Work to be performed will be of the quality that prevails among similar businesses of superior knowledge and skill engaged in providing similar services. All materials used in the Work shall be furnished in sufficient quantities to facilitate the proper and expeditious execution of the Work.
- 4.16 If the Work includes installation of materials or equipment furnished by Owner or others, it shall be the responsibility of Contractor to examine the items so provided and thereupon handle, store, and install the items, unless otherwise provided in the Contract Documents, with such skill as to provide a satisfactory and proper installation. Loss or damage due to acts or omissions of Contractor shall be the responsibility of Contractor and may be deducted from any amounts due or to become due to Contractor. Any defects discovered in such materials or equipment shall be reported at once to Owner. Following receipt of written notice from Contractor of defects, Owner shall promptly inform Contractor what action, if any, Contractor shall take with regard to the defects.

- 4.17 Contractor shall have overall responsibility for safety precautions and programs in the performance of the Work. However, such obligation does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work or for compliance with applicable laws and regulations.
- 4.17.1 Contractor shall seek to avoid injury, loss, or damage to persons or property by taking reasonable steps to protect: (a) its employees and other persons at the site; (b) materials and equipment stored at onsite or offsite locations for use in the Work; and (c) property located at the site and adjacent to Work areas, whether or not the property is part of the site.
- 4.17.2 Contractor's site safety representative shall have a duty to prevent accidents. The safety representative shall perform their duty in accordance with the Uniform General Conditions.
- 4.17.3 If Owner deems any part of the Work or site unsafe, Owner, without assuming responsibility for Contractor's safety program, may require Contractor to stop performance of the Work or take corrective measures satisfactory to Owner, or both. If Contractor does not adopt corrective measures, Owner may perform them and deduct their cost from the Contract Sum. If Owner determines that a particular person does not follow safety procedures, or is unfit or unskilled for the assigned Work, Contractor shall immediately reassign the person upon receipt of Owner's written notice to do so. Contractor agrees to make no claim for damages, for an increase in the Contract Sum or for a change in the Contract Time based on Contractor's compliance with Owner's reasonable request.
- 4.18 If the conditions encountered at the site are: (a) subsurface or other physical conditions materially different from those indicated in the Contract Documents; or (b) unusual and unknown physical conditions materially different from conditions ordinarily encountered and generally recognized as inherent in Work provided for in the Contract Documents, then Contractor shall stop affected Work after the condition is first observed and give written notice of the condition to Owner and the Design Professional within forty-eight (48) hours.
- 4.19 Contractor shall regularly remove debris and waste materials at the site resulting from the Work. Prior to discontinuing Work in an area, Contractor shall clean the area and remove all rubbish and its construction equipment, tools, machinery, waste, and surplus materials. Contractor shall minimize and confine dust and debris resulting from construction activities. At the completion of the Work, Contractor shall remove from the site all construction equipment, tools, surplus materials, waste materials, and debris.
- 4.19.1 If Contractor fails to commence compliance with cleanup duties within two (2) business days after written notification from Owner of non-compliance, Owner may implement appropriate cleanup measures without further notice and shall deduct the reasonable costs from any amounts due or to become due Contractor in the next payment period.
- 4.20 Contractor shall facilitate the access of Owner, Design Professional, and others to Work in progress.
- 4.21 Contractor shall comply with all applicable laws and regulations at its own costs. Contractor shall be liable to Owner for all loss, cost, or expense attributable to any acts or omissions by Contractor, its employees, subcontractors, and agents for failure to comply with applicable laws and regulations, including fines, penalties, or corrective measures.
- 4.22 Contractor warrants that all materials and equipment shall be new unless otherwise specified, of good quality, in conformance with the Contract Documents, and free from defective workmanship and materials. Contractor shall furnish satisfactory evidence of the quality and type of materials and equipment furnished. Contractor further warrants that the Work shall be free from material

defects not intrinsic in the design or materials required in the Contract Documents. Contractor's warranty shall commence on the Date of Substantial Completion of the Work.

- 4.22.1 Contractor shall obtain from its Subcontractors and Material Suppliers any special or extended warranties required by the Contract Documents. Contractor's liability for such warranties shall be limited to a one-year period. After that period, Contractor shall provide reasonable assistance to Owner in enforcing the obligations of Subcontractors or Material Suppliers for such extended warranties.
- 4.22.2 If, prior to Substantial Completion and within one year after the date of Substantial Completion of the Work, any Work not complying with the contract requirements ("Defective Work") is found, Owner shall promptly notify Contractor in writing. Unless Owner provides written acceptance of the condition, Contractor shall promptly correct the Defective Work at its own cost and time and bear the expense of additional Work required for correction of any Defective Work for which it is responsible.
- 4.22.3 With respect to any portion of Work first performed after Substantial Completion, the one-year period shall be extended by the period between Substantial Completion and the actual performance of the later Work. Correction periods shall not be extended by corrective work performed by Contractor.
- 4.22.4 If Contractor fails to correct Defective Work within a reasonable time after receipt of written notice from Owner prior to final payment, Owner may correct it in accordance with Owner's right to carry out the Work. In such case, an appropriate Change Order shall be issued deducting the cost of correcting the Defective Work from payments then or thereafter due Contractor. If payments then or thereafter due Contractor are not sufficient to cover such amounts, Contractor shall pay the difference to Owner.
- 4.22.5 If Contractor's correction or removal of Defective Work causes damage to or destroys other completed or partially completed Work or existing buildings, Contractor shall be responsible for the cost of correcting the destroyed or damaged property.

ARTICLE 5 SUBCONTRACTS

- 5.1 With the prior written approval of Owner, Contractor may subcontract such services as Contractor deems necessary to meet its obligations under this Agreement. Subcontractors shall be qualified and experienced in the type of work they will be performing. Owner shall have the right to reject any subcontractor but such right shall not relieve the responsibility of Contractor for his work and the work of the subcontractors. Contractor expressly assumes such responsibility and liability.
- 5.2 Contractor shall be responsible for the management of the Subcontractors in the performance of the Work.
- 5.3 If this Agreement is terminated, each subcontract agreement shall be assigned by Contractor to Owner, subject to the prior rights of any surety, provided that: (a) this Agreement is terminated by Owner pursuant to Section 11.1; and (b) Owner accepts such assignment, after termination by notifying the Subcontractor and Contractor in writing, and assumes all rights and obligations of Contractor pursuant to each subcontract agreement.
- 5.4 Contractor agrees to bind every Subcontractor and material supplier (and require every Subcontractor to so bind its sub-subcontractors and material suppliers) to all provisions of this Agreement as they apply to the Subcontractors' or material Suppliers' portions of the Work.
- 5.5 Contractor shall comply with the HUB Program as defined by Tex. Gov't Code, Chapter 2161. Failure to comply with the HUB Program may constitute a material breach of this Contract as determined by Owner's sole discretion.

- 5.6 Contractor agrees to comply with the established HUB Subcontracting Approach and shall make no changes to the HUB Subcontracting Approach without the prior written approval of Owner. Contractor will work with the Business Support Services HUB Coordinator to develop the HUB Subcontracting Plan (HSP). Further details concerning the HSP are located within the Uniform General Conditions.

ARTICLE 6 OWNER'S RESPONSIBILITIES

- 6.1 Owner shall provide Contractor with reasonable access to the site to assist Contractor in its performance of all tasks reasonably necessary for the completion of Work.
- 6.2 Owner hereby expressly reserves the right from time to time to designate by notice to Contractor one or more representatives to act partially or wholly for Owner in connection with the performance of Owner's obligations hereunder. Contractor shall act only upon instructions from such representatives unless otherwise specifically notified to the contrary.
- 6.3 Owner's Designated Representative shall: (a) be fully acquainted with the Project, Work, and site; (b) agree to furnish the information and Work required of Owner in a timely manner; and (c) have the authority to bind Owner (to the extent of their authority) in all matters requiring Owner's approval or authorization. If Owner changes its representative, Owner shall promptly notify Contractor in writing.
- 6.4 Owner will furnish the site plan to document existing conditions to the extent requested by Contractor and as reasonably necessary for the completion of Contractor's Work.
- 6.5 Owner shall examine, or cause its representative(s) to examine documents submitted by Contractor and render decisions pertaining thereto promptly or within a reasonable time to avoid unreasonable delay in the progress of Contractor's Work. Review and approval of a document by Owner shall not waive the contractual responsibility or liability of Contractor.
- 6.6 Owner shall furnish information required as expeditiously as necessary for the orderly progress of Contractor's Work.
- 6.7 Except for those permits and fees related to the Work which are the responsibility of Contractor, Owner shall secure and pay for all other permits, approvals, easements, assessments, and fees required for the development, construction, use or occupancy of permanent structures or for permanent changes in existing facilities, including the building permit.
- 6.8 Owner may perform work at the site directly or by others. Contractor and Owner shall coordinate the activities of all forces at the site and agree upon fair and reasonable schedules and operational procedures for site activities.

ARTICLE 7 SCHEDULE, COMMENCEMENT, AND COMPLETION

- 7.1 Owner shall provide a Notice to Proceed in which a date for commencement of the Work to be performed shall be stated. Contractor shall achieve Substantial Completion of the work no later than {Written Number} ({{#}}) calendar days from the date of the Notice to Proceed, subject to extension only by approved Change Orders. Final Completion, including correction of deficiencies, shall be achieved no later than thirty (30) calendar days from the date of the Substantial Completion. Contractor understands that the Substantial Completion and Final Completion dates shall not be extended regardless of weather, strikes, or for any other reason unless Change Orders so approve.

- 7.1.1 Time is of the essence for this Agreement and the Contract Documents.

7.1.2 Unless instructed by Owner in writing, Contractor shall not knowingly commence the Work before the effective date of insurance to be provided by Contractor.

7.2 Schedule.

7.2.1 Contractor shall submit for review and approval a Baseline Schedule to Owner and Design Professional when submitting the response to request for competitive sealed proposal. The Baseline Schedule shall indicate the dates for starting and completing the various aspects required to complete the work and shall utilize the Longest Path method with fully editable logic. The schedule shall include mobilization, procurement, installation, testing, inspection, delivery of Close-out Documents, and acceptance of all Work. This Baseline Schedule shall become the comparison to the actual conditions throughout the Contract duration and become a part of the Work Progress Schedule (WPS).

7.2.1.1 A Baseline Schedule that does not have at least the minimum amount of Total Float at submission will result in the Contractor forfeiting all claims to WPS extensions and/or delays as a result of contract changes and/or excusable delays as described in the UGCs.

7.2.1.2 In accordance with the UGCs, the WPS shall include at least ten percent (10%) Total Float and Weather Days from the effective date of Notice to Proceed for construction services to Substantial Completion Date.

7.2.1.3 Total Float shall not be shown as a single activity, but rather the results of the relationship between the early and late finish dates or early and late start dates of each activity. The allocation of project float shall be determined by the Project Team as conditions warrant.

7.2.2 As construction proceeds, Contractor shall update and submit the WPS with the Owner, Architect, and Contractor (OAC) meeting minutes. The WPS is to indicate detailed listing for all activity sequences, durations, or milestone dates for activities of the Project, including, without limitation:

7.2.2.1 commencement, milestones, and completion dates for bidding/proposals phase, construction phase, and project stages;

7.2.2.2 times of commencement and completion, duration, and allocation of labor and materials for each Subcontractor;

7.2.2.3 other detailed schedule activities as directed by Owner including, but not limited to, Owner-managed work under separate contracts such as equipment, furniture and furnishings, telephones, project security, property protection, life-safety systems, integration with central campus monitoring systems, information and instructional technology, data-transmission systems, and computer technology systems;

7.2.2.4 a recommended schedule for Owner's purchase of materials and equipment requiring long lead-time procurement, delivery dates of products requiring long lead time procurement, and methods to expedite and coordinate delivery of long lead-time procurements including coordination of the schedule;

7.2.2.5 Owner's occupancy requirements and estimated date of Substantial Completion of the Project;

- 7.2.2.6 potential and actual variances between scheduled and probable completion dates;
 - 7.2.2.7 review of schedules for Work not started or incomplete and recommendation to Owner of adjustments in the schedules to conform to the probable completion dates;
 - 7.2.2.8 summary reports to Owner of each schedule update and documentation of all changes in construction schedules; and
 - 7.2.2.9 evaluation of Subcontractor's personnel, equipment, and availability of supplies and materials, with respect to each Subcontractor's ability to meet the schedule and recommendation to Owner when any subcontract requirements are not met, or appear unlikely to be met.
- 7.2.3 During OAC meeting, Contractor shall: review progress since last meeting with the Owner and Design Professional; determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's WPS; determine how construction behind schedule will be expedited; secure commitments from parties involved to do so; discuss whether schedule revisions are required to ensure the current and subsequent activities will be completed within the Contract Time; and review WPS for next period.
- 7.2.4 In addition to attending regularly scheduled OAC Project progress meetings, Contractor shall schedule, direct and attend interim progress meetings (i.e., commissioning meetings, coordination meetings, pre-installation meetings) with other members of the Project Team as required to maintain Project progress. Contractor shall record and distribute the minutes of each meeting to each Project Team member. The minutes shall identify critical activities that require action and the dates by which each activity must be completed.
- 7.2.5 If WPS updates indicate the Longest Path contained in prior WPS will not be met, Contractor shall notify the Owner in writing within forty-eight (48) hours and make recommendations to Owner. Should the item be critical in nature, Contractor shall have a follow-up discussion with Owner.
- 7.2.6 Contractor, concurrently with revising the schedule, shall prepare tabulated reports showing the following:
- 7.2.6.1 Identification of activities that have changed
 - 7.2.6.2 Changes in early and late start dates
 - 7.2.6.3 Changes in early and late finish dates
 - 7.2.6.4 Changes in activity durations in workdays
 - 7.2.6.5 Changes in the Longest Path
 - 7.2.6.6 Changes in Contract Time
 - 7.2.6.7 Show relationship between activities on initial and updated schedule.
- 7.2.7 Contractor shall provide the necessary Longest Path schedule control with a goal to attain the Substantial Completion Date of the Project, so that Owner can occupy and utilize the entire Project facilities on such date as well as a Punch List and Final Completion date;

- 7.2.7.1 Punch List and Final Completion: The Longest Path schedule control shall include not more than thirty (30) days or an agreed to timeframe approved by Owner for punch list and final completion.
- 7.2.8 Contractor shall coordinate preparation of the Schedule of Values with preparation of WPS.
- 7.2.9 Contractor shall create and maintain the WPS in a format acceptable to Owner (the license and training for which shall be at Contractor's sole expense).
- 7.2.10 Contractor shall notify Owner within forty-eight (48) hours should a periodic update to the WPS indicates the Work is fourteen (14) or more calendar days behind the current approved WPS. Contractor shall submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the WPS and indicate changes to working hours, working days, crew sizes, and equipment required for compliance, and date by which recovery will be accomplished.
 - 7.2.10.1 Owner's Notice Not to Accelerate to Contractor shall not be considered acceleration by Owner and Owner shall not be responsible for any increased costs incurred by Contractor.
- 7.2.11 Contractor shall refer to the Uniform General Conditions for schedule extension and delay processes.
- 7.2.12 Owner may determine the sequence in which the Work shall be performed, provided it does not unreasonably interfere with the WPS. Owner may require Contractor to make reasonable changes in the sequence at any time during the performance of the Work in order to facilitate the performance of work by Owner or others. To the extent such changes increase Contractor's costs or time, the Contract Sum and Contract Time shall be equitably adjusted.

**ARTICLE 8
COMPENSATION AND PAYMENT**

8.1 In full consideration of Contractor's performance of the Work and services under this Agreement, Owner shall pay to Contractor, subject to additions and deductions provided herein, the sum of {Amount} and No/100 Dollars ({#.00}), in periodic progress payments as hereinafter provided.

The Contract Sum is the total of the following:

Base Bid	\${Amount}
Alternate 1 -	\${Amount}
Alternate 2 -	\${Amount}
Alternate 3 -	\${Amount}
Payments and Performance Bonds	\${Amount}
TOTAL	\${Amount}

8.1 On a monthly basis and subject to procedures set forth in the Uniform General Conditions, Contractor shall submit an Application for Payment, in accordance with Division 01 Specifications. Supporting documentation should include, without limitation: a certified statement as to the Work completed and current schedule of values; a project-to-date job cost report and a current period job cost report; a breakdown of materials and labor; supporting subcontractor invoices and sworn statements and waivers of lien for all amounts paid to Contractor for materials, labor, equipment,

and other costs; and copies of third-party invoices, receipts, and other third-party supporting documentation.

- 8.2 Based on the Application for Payment, Owner shall make a periodic progress payment to Contractor for the cost of labor, materials, and equipment incurred by Contractor in relation to the Work during the previous month, except that the percentage of the total amount paid shall not exceed the percentage amount of the Work that has been completed as determined in the reasonable judgment of Owner. Upon verification of costs incurred and percentage of Work completed, Owner will make payment to Contractor within thirty (30) working days or will notify Contractor of any objection to the invoiced amount.
- 8.3 Owner shall have the right to withhold from payments due Contractor such sums as are necessary to protect Owner against any loss or damage which may result from negligence by Contractor or failure of Contractor to perform Contractor's obligations under this Agreement and as set forth in the Uniform General Conditions.
- 8.4 The final request for payment shall not be made until Contractor delivers to Owner a complete release of all liens arising out of this Agreement and an affidavit that so far as Contractor has knowledge or information, the release includes and covers all materials and Work over which Contractor has control for which a lien could be filed, but Contractor may, if any agent or consultant refuses to furnish a release in full, furnish a bond satisfactory to Owner to indemnify Owner against any lien. If any lien remains unsatisfied after all payments are made, Contractor shall refund to Owner all moneys Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees, and Owner shall have all remedies at law and in equity.
- 8.5 In addition to the procedures contained in the Uniform General Conditions, Owner shall have no obligation to make Final Payment until a final accounting of the Work has been submitted by Contractor and has been verified by Owner or Owner's representatives. The aggregate total of payments to Contractor shall not exceed the total of the actual Work as verified by Owner or Owner's representative from Contractor's final accounting, as certified for payment in accordance with the Agreement. If payments made to Contractor exceed that which is due and owing pursuant to this Article, then Contractor shall promptly refund such excess to Owner.
- 8.6 Nothing contained herein shall require Owner to pay Contractor an aggregate amount exceeding the Contract Sum or to make payment if in Owner's belief the cost to complete the Work would exceed the Contract Sum less previous payments to Contractor. Any provision to the contrary notwithstanding, Owner shall not be obligated to make any payment (whether a periodic progress payment or Final Payment) to Contractor hereunder if any one or more of the following conditions precedent exist:
- 8.6.1 Contractor is in breach or default under this Agreement;
- 8.6.2 Any part of such payment is attributable to services which are not performed in accordance with this Agreement; provided, however, such payment shall be made as to the part thereof attributable to services which were performed in accordance with this Agreement;
- 8.6.3 Contractor has failed to make payments promptly to consultants or other third parties used in connection with the services for which Owner has made payment to Contractor;
- 8.6.4 If Owner, in its good faith judgment, determines that the portion of the compensation then remaining unpaid will not be sufficient to complete the services in accordance with this Agreement, no additional payments will be due Contractor hereunder unless and until Contractor, at Contractor's sole cost, performs a sufficient portion of the remaining services so that such portion of the compensation then remaining unpaid is determined by Owner to be sufficient to so complete the then remaining services; or

- 8.6.5 To the extent Liquidated Damages or actual damages are imposed by Owner for failure of Contractor to complete the Work within the Contract Time.
- 8.7 No partial payment made hereunder shall be, or shall be construed to be, final acceptance or approval of that part of the services to which such partial payment relates, or a release of Contractor of any Contractor's obligations hereunder or liabilities with respect to such services.
- 8.8 Contractor shall promptly pay all bills validly due and owing for labor and material performed and furnished by others in connection with the performance of the construction of the Work.
- 8.9 The acceptance by Contractor or Contractor's successors of Final Payment under this Agreement, shall constitute a full and complete release of Owner from any and all claims, demands, and causes of action whatsoever which Contractor or Contractor's successors have or may have against Owner under the provisions of this Agreement except those previously made in writing and identified by Contractor as unsettled at the time of the final request for payment.

ARTICLE 9 BONDS

- 9.1 Prior to commencing work, Contractor shall provide performance and payment bonds in accordance with the requirements set forth in the Uniform General Conditions. The penal sum of the payment and performance bonds shall be for 100% of the Contract Sum. Any increase in the Contract Sum shall require a rider to the Bonds increasing penal sums accordingly. Contractor shall endeavor to keep its surety advised of changes potentially impacting the Contract Time and Contract Sum. Owner will pay Contractor the bonding costs as a pass through amount not to exceed {Amount} (\$#{#}.00) with proper documentation provided along with an Application for Payment. No retainage is to be withheld with respect to the cost of the required bonds.
- 9.2 Contractor shall not cause or allow any of its bonds to be canceled nor permit any lapse during the term of this Agreement.

ARTICLE 10 INDEMNITY AND INSURANCE

- 10.1 Contractor covenants and agrees to **FULLY INDEMNIFY and HOLD HARMLESS** Owner and its component institutions, the UNTS Board of Regents, elected and appointed officials, directors, officers, employees, agents, representatives, and volunteers, individually or collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability, and suits of any kind and nature, including but not limited to, personal or bodily injury, death, or property damage, made upon Owner directly or indirectly arising out of, resulting from, or related to Contractor's activities under the Contract, including any acts or omissions of Contractor, or any director, officer, employee, agent, representative, consultant, or Subcontractor of Contractor, and their respective directors, officers, employees, agents, and representatives while in the exercise of performance of the rights or duties under the Contract. The indemnity provided for in this paragraph does not apply to any liability resulting from the negligence of Owner or separate contractors in instances where such negligence causes personal injury, death, or property damage. **IN THE EVENT CONTRACTOR AND OWNER ARE FOUND JOINTLY LIABLE BY A COURT OF COMPETENT JURISDICTION, LIABILITY WILL BE APPORTIONED COMPARATIVELY IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS, WITHOUT WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO THE STATE UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW.**

10.1.1 The provisions of this indemnification are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity.

10.1.2 Contractor shall promptly advise Owner in writing of any claim or demand against Owner or against Contractor known to Contractor related to or arising out of Contractor's activities under this Contract.

10.2 Insurance.

10.2.1 Contractor shall not commence work under the Agreement until it has obtained all insurance required in accordance with this Agreement and the Uniform General Conditions and until such insurance has been reviewed and approved in writing by Owner. Approval of the insurance by Owner shall not relieve nor decrease the liability of Contractor hereunder. Prior to commencing of the Work Contractor shall provide evidence as required by this Article that demonstrates coverage for Employer's Liability, Workers' Compensation, Commercial General Liability, and Automobile Liability as set forth in the Uniform General Conditions are in full force and effect. Prior to commencing any construction work, Builder's Risk as set forth in the Uniform General Conditions shall be in full force and effect and shall be increased as necessary for each separate bid package, phase, or stage of construction prior to the commencement of construction for that package, phase, or stage. No retainage is to be withheld with respect to the cost of the required insurance.

Owner shall obtain builder's risk insurance coverage for the Project. In the event of an insured loss caused by the action or inaction of Contractor, or by any subcontractor or sub-subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable, Contractor shall be responsible for, and reimburse to Owner, any applicable deductible under the builder's risk insurance policy, which may be up to \$25,000. Any costs associated with Contractor's responsibility for the applicable deductible shall not be considered cost of Work.

10.2.2 Contractor shall include Owner, {Campus if different from Owner} and the Board of Regents of the University of North Texas System as loss payees and Additional Insured's on General Liability and Business Automobile Liability. The Commercial General Liability, Business Automobile Liability, and Worker's Compensation policies shall include a waiver of subrogation in favor of Owner.

10.2.3 Insurance policies required under this Article shall contain a provision that the insurance company must give Owner written notice transmitted in writing: (a) thirty (30) calendar days before coverage is non-renewed by the insurance company and (b) within ten (10) business days after cancellation of coverage by the insurance company. Prior to start of Services and upon renewal or replacement of the insurance policies, Contractor shall furnish Owner with certificates of insurance until one year after acceptance of the Services. If any insurance policy required under this Article is not to be immediately replaced without lapse in coverage when it expires, exhausts its limits, or is to be cancelled, Contractor will give Owner written notice within forty-eight (48) hours upon actual or constructive knowledge of such condition.

10.2.4 Owner reserves the right to review the insurance requirements set forth in this Article during the effective period of the Agreement and to make reasonable adjustments to the insurance coverage and their limits when deemed necessary and prudent by Owner based upon changes in statutory law, court decisions, or the claims history of the industry as well as Contractor.

10.2.5 Owner shall be entitled, upon request, and without expense, to receive copies of the policies, all endorsements thereto and documentation to support costs and may make

any reasonable requests for deletion, or revision or modification of particular policy terms, conditions, limitations, exclusions and costs, except where policy provisions are established by law or regulation binding upon either of the Parties or the underwriter of any of such policies. Any price credits determined in the insurance review will be refundable to Owner. Actual losses not covered by insurance as required by this Article shall be paid by the Contractor.

10.2.6 Contractor shall not cause or allow any of its insurance to be canceled nor permit any lapse during the term of the Agreement or as required in the Agreement.

ARTICLE 11 TERMINATION AND SUSPENSION

- 11.1 With or without cause, Owner reserves and has the right to terminate this Agreement or to cancel, suspend or abandon execution of all or any Work in connection with this Agreement at any time upon written notice to Contractor. Contractor may terminate this Agreement upon seven (7) days written notice to Owner only if Owner substantially fails to perform its obligations under Article 6 of this Agreement or fails to timely pay Contractor as required under Article 8, and after adequate written notice is delivered to Owner and Owner has failed to take action within thirty (30) days in order to begin to correct the problem.
- 11.1.1 In the event of termination, cancellation, suspension, or abandonment that is not the fault of Contractor, Owner shall pay to Contractor as full payment for all services performed and all expenses incurred under this Agreement, the appropriate portion of Contract Sum due under Article 8 as shall have become payable for Work actually rendered hereunder by Contractor.
- 11.1.2 In ascertaining the services actually rendered hereunder up to the date of termination, cancellation, suspension, or abandonment of this Agreement, consideration shall be given to both completed work and work in progress, to complete and incomplete Drawings, and to other related documents, whether delivered to Owner or in possession of Contractor.
- 11.1.3 For any said sum paid under this Article, Contractor agrees to accept same in full settlement of all claims for services rendered under this Agreement.
- 11.2 If, upon payment of the amount required to be paid under this Article following the termination of this Agreement, Owner thereafter should determine to complete the original project or, substantially, the same project without major change in scope; Owner, for such purposes, shall have the right of utilization of any and all original tracings, Drawings, calculations, design analysis, Specifications, estimates, related data, and other documents including Construction Documents, prepared under this Agreement by Contractor who shall make them available to Owner upon request, with compensation to Contractor limited to actual reproduction costs. Owner agrees to credit Contractor with such authorship as may be due but is not required to renew this Agreement.
- 11.3 Upon request at the termination, cancellation, suspension, or abandonment of this Agreement, Contractor agrees to furnish to Owner copies of the latest documents prepared by Contractor for the Project.
- 11.4 A termination, cancellation, suspension, or abandonment under this Article shall not relieve Contractor or any of its employees of liability for violations of this Agreement, or any willful, negligent or accidental act or omission of Contractor. In the event of a termination under this Article, Contractor hereby consents to employment by Owner of a substitute contractor to complete the services under this Agreement, with the substitute contractor having all rights and privileges of the original contractor of the Project.

**ARTICLE 12
MISCELLANEOUS**

- 12.1 Assignment. The terms and conditions of this Agreement shall be binding upon the Parties, their partners, successors, permitted assigns, and legal representatives. This Agreement is a service contract for the services of Contractor, and Contractor's interest in this Agreement, duties hereunder and/or fees due hereunder may not be assigned or delegated to a third party. The benefits and burdens of this Agreement are, however, assignable by Owner to a component or affiliate of Owner or a branch or agency of the State of Texas.
- 12.2 Death or Incapacity. If Contractor transacts business as an individual, his death or incapacity shall automatically terminate this Agreement as of the date of such event, and neither he nor his estate shall have any further right to perform hereunder; and Owner shall pay him or his estate the compensation payable under the Agreement for any services rendered prior to such termination. If Contractor is a firm comprised of more than one principal and any one of the members thereof dies or becomes incapacitated and the other members continue to render the services covered herein, Owner will make payments to those continuing as though there had been no such death or incapacity, and Owner will not be obliged to take any account of the person who died or became incapacitated or to make any payment to such person or his estate. This provision shall apply in the event of progressive or simultaneous occasions of death or incapacity among any group of persons named as Contractor; and if death or incapacity befalls the last one of such group before this Agreement is fully performed, then the rights shall be as if there had been only one Contractor. In any event, notice of the death or incapacity of any principal shall be given to Owner by any surviving principal within a reasonable time.
- 12.3 Irreparable Injury. It is acknowledged and agreed that Contractor's services to Owner are unique, which gives a peculiar value to Owner and for the loss of which Owner cannot be reasonably or adequately compensated in damages; accordingly, Contractor acknowledges and agrees that a breach by Contractor of the provisions hereof will cause Owner irreparable injury and damage. Contractor, therefore, expressly agrees that Owner shall be entitled to injunctive and/or other equitable relief in any court of competent jurisdiction to prevent or otherwise restrain a breach of this Agreement, but only if Owner is not in breach of this Agreement.
- 12.4 Certifications.
- 12.4.1 Pursuant to Texas Family Code, Section 231.006, Contractor certifies that it is not ineligible to receive the award of or payments under this Agreement and acknowledges that this Agreement may be terminated and payment may be withheld if this certification is inaccurate.
- 12.4.2 Pursuant to Texas Government Code, Section 2155.004, Contractor certifies that the business entity named in this Agreement is not ineligible to receive the award of or payments under this Agreement and acknowledges that this Agreement may be terminated and payment withheld if this certification is inaccurate.
- 12.4.3 If a corporate or limited liability company, Contractor certifies that it is not currently delinquent in the payment of any Franchise Taxes due under Texas Tax Code, Chapter 171, or that the corporation or limited liability company is exempt from the payment of such taxes, or that the corporation or limited liability company is an out-of-state corporation or limited liability company that is not subject to the Texas Franchise Tax, whichever is applicable.
- 12.4.4 Pursuant to Texas Government Code Sections 2107.008 and 2252.903, Contractor agrees that any payments owing to Contractor under this Agreement may be applied directly toward any debt or delinquency that Contractor owes the State of Texas or any

agency of the State of Texas regardless of when it arises, until such debt or delinquency is paid in full.

- 12.4.5 Pursuant to Texas Government Code Chapter 2252, Subchapter F, Contractor certifies that it is not engaged in business with Iran, Sudan, or a foreign terrorist organization. Contractor acknowledges this Agreement may be terminated if this certification is inaccurate.
- 12.4.6 Pursuant to Texas Government Code Sections 2252.201-2252.205, Contractor certifies that it is in compliance with the requirement that any iron or steel product produced through a manufacturing process and used in the Project is produced in the United States.
- 12.4.7 If the Agreement is subject to Texas Gov't Code Section 2271.002, Contractor hereby represents, verifies, and warrants that it does not boycott Israel and will not boycott Israel during the term of the Agreement. If the Agreement is subject to Texas Gov't Code Section 2274.002, Contractor hereby represents, verifies, and warrants that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and will not discriminate against a firearm entity or firearm trade association during the term of the Agreement. If the Agreement is subject to Texas Gov't Code Section 2274.002, Contractor hereby represents, verifies, and warrants that it does not boycott energy companies and will not boycott energy companies during the term of the Agreement.
- 12.4.8 Contractor certifies that no member of the Board of Regents of the University of North Texas System, or executive officers, including component institutions, has a financial interest, directly or indirectly, in the transaction that is the subject of this Agreement.
- 12.5 Illegal Dumping. Contractor shall ensure that it and all of its subcontractors and assigns prevent illegal dumping of litter in accordance with Title 5, Texas Health and Safety Code, Chapter 365.
- 12.6 Asbestos Containing Materials.
- 12.6.1 Contractor shall provide a notarized certification to Owner that all equipment and materials used in fulfillment of its Contract responsibilities are non-Asbestos Containing Building Materials (ACBM) no later than Contractor's application for Final Payment as required by the Uniform General Conditions.
- 12.6.2 All materials used in this Project shall be certified as non-ACBM. Contractor shall take whatever measures it deems necessary to insure that all employees, suppliers, fabricators, material men, subcontractors, or their assigns, comply with the following acts:
- 12.6.2.1 Asbestos Hazard Emergency Response Act (AHERA—40 CFR 763, Subpart E)
- 12.6.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP—EPA 40 CFR 61, Subpart M, National Emission Standard for Asbestos)
- 12.6.2.3 Texas Asbestos Health Protection Rules (TAHRP—Tex. Admin. Code Title 25, Part 1, Ch. 295, Subchapter C, Asbestos Health Protection)
- 12.7 State Auditor's Right to Audit. Pursuant to Section 2262.154 of the Texas Government Code, the state auditor may conduct an audit or investigation of any entity receiving funds from the state directly under any contract or indirectly through a subcontract under the contract. The acceptance of funds by Contractor or any other entity or person directly under the Agreement or indirectly through a subcontract under the Agreement acts as acceptance of the authority of the state auditor,

under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. Under the direction of the legislative audit committee, the Contractor or other entity that is the subject of an audit or investigation by the state auditor must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit. Contractor shall ensure that this paragraph concerning the authority to audit funds received indirectly by Subcontractors through the contract and the requirement to cooperate is included in any subcontract awards.

12.8 Records and Right to Audit. Owner shall have the right to verify and audit the details set forth in Contractor's billings, certificates, accountings, cost data, and statements, either before or after payment therefore, by: (a) inspecting the books and records of Contractor during normal business hours; (b) examining any reports with respect to this Project; (c) interviewing Contractor's business employees; (d) visiting the Project site; and (e) other reasonable action. Records of Contractor's costs, reimbursable expenses pertaining to the Project and payments shall be kept on a generally recognized accounting basis and shall be made available to Owner or its authorized representative during business hours for audit or other purposes as determined by Owner and in accordance with the requirements in the Uniform General Conditions.

12.9 Notices. All notices, consents, approvals, demands, requests or other communications provided for or permitted to be given under any of the provisions of this Agreement shall be in writing and shall be deemed to have been duly given or served when delivered by hand delivery or when deposited in the U.S. Mail by registered or certified mail, return receipt requested, postage prepaid, and addressed as follows:

If to Owner:

{Name}

{Title}

University of North Texas {System or Institution Name}

1155 Union Circle #311040

Denton, Texas 76203-5017

If to Contractor:

{Contact Name}

{Firm Name}

{Street Address}

{City, State Zip}

or to such other person or address as may be given in writing by either party to the other in accordance with the aforesaid.

12.10 Independent Contractor. Contractor recognizes that it is engaged as an independent contractor and acknowledges that Owner will have no responsibility to provide transportation, insurance or other fringe benefits normally associated with employee status. Contractor, in accordance with its status as an independent contractor, covenants and agrees that it shall conduct itself consistent with such status, that it will neither hold itself out as nor claim to be an officer, partner, employee or agent of Owner by reason hereof, and that it will not by reason hereof make any claim, demand or application to or for any right or privilege applicable to an officer, partner, employee or agent of Owner, including, but not limited to, unemployment insurance benefits, social security coverage or retirement benefits. Contractor hereby agrees to make its own arrangements for any of such benefits as it may desire and agrees that it is responsible for all income taxes required by applicable law.

12.11 Loss of Funding. Performance by Owner under the Agreement may be dependent upon the appropriation and allotment of funds by the Texas State Legislature (the "Legislature") and/or allocation of funds by the Board of Regents of The University of North Texas System (the "Board"). If the Legislature fails to appropriate or allot the necessary funds, or the Board fails to allocate the necessary funds, then Owner shall issue written notice to Contractor and Owner may terminate the Agreement. Contractor acknowledges that appropriation, allotment, and allocation of funds are beyond the control of Owner.

- 12.12 Confidentiality. All information owned, possessed or used by Owner which is communicated to, learned, developed or otherwise acquired by Contractor in the performance of services for Owner, which is not generally known to the public, shall be confidential and Contractor shall not, beginning on the date of first association or communication between Owner and Contractor and continuing through the term of this Agreement and any time thereafter, disclose, communicate or divulge, or permit disclosure, communication or divulgence, to another or use for Contractor's own benefit or the benefit of another, any such confidential information, unless required by law. Except when defined as part of the Work, Contractor shall not make any press releases, public statements, or advertisement referring to the Project or the engagement of Contractor as an independent contractor of Owner in connection with the Project, or release any information relative to the Project for publications, advertisement or any other purpose without the prior written approval of Owner. Contractor shall obtain assurances similar to those contained in this subparagraph from persons, and subcontractors retained by Contractor. Contractor acknowledges and agrees that a breach by Contractor of the provisions hereof will cause Owner irreparable injury and damage. Contractor, therefore, expressly agrees that Owner shall be entitled to injunctive and/or other equitable relief in any court of competent jurisdiction to prevent or otherwise restrain a breach of this Agreement.
- 12.13 Open Records. Owner shall release information to the extent required by the Texas Public Information Act and other applicable law. If required, Contractor shall make public information available to Owner in an electronic format. The requirements of Subchapter J, Chapter 552, Government Code, may apply to this Agreement and Contractor agrees that the Agreement can be terminated if Contractor knowingly or intentionally fails to comply with a requirement of that subchapter.
- 12.14 Governing Law and Venue. This Agreement and all of the rights and obligations of the parties hereto and all of the terms and conditions hereof shall be construed, interpreted and applied in accordance with and governed by and enforced under the laws of the State of Texas and venue shall be as provided in Texas Education Code Section 105.151 for any legal proceeding pertaining to this Agreement.
- 12.15 Waivers. No delay or omission by either of the parties hereto in exercising any right or power accruing upon the non-compliance or failure of performance by the other party hereto of any of the provisions of this Agreement shall impair any such right or power or be construed to be a waiver thereof. A waiver by either of the parties hereto of any of the covenants, conditions or agreements hereof to be performed by the other party hereto shall not be construed to be a waiver of any subsequent breach thereof or of any other covenant, condition or agreement herein contained.
- 12.16 Severability. Should any term or provision of this Agreement be held invalid or unenforceable in any respect, the remaining terms and provisions shall not be affected and this Agreement shall be construed as if the invalid or unenforceable term or provision had never been included.

IN WITNESS WHEREOF the parties hereto have executed this Agreement in the day and year first above written.

OWNER:
UNIVERSITY OF NORTH TEXAS
{SYSTEM OR INSTITUTION NAME}

CONTRACTOR:
{FIRM NAME}

By: _____
(signature)

By: _____
(signature)

[Authorized Signatory Name]
[Authorized Signatory Title]

(typed name and title)

Date: _____

Date: _____

Street/PO Box

City, State, ZIP

Telephone

State of TX Vendor ID Number

EXHIBIT A

SPECIFICATIONS, DRAWINGS, AND ADDENDA

SPECIFICATIONS

As listed in project manual titled [Title], prepared by [Professional], issued for construction on [Date].

DRAWINGS

Entitled [Title], as prepared by [Professional], issued for construction on [Date], consisting of the following pages:

<u>Sheet Number</u>	<u>Title</u>
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ADDENDA

<u>Number</u>	<u>Title</u>
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UNIFORM GENERAL CONDITIONS
FOR CONSTRUCTION AND DESIGN CONTRACTS
2022

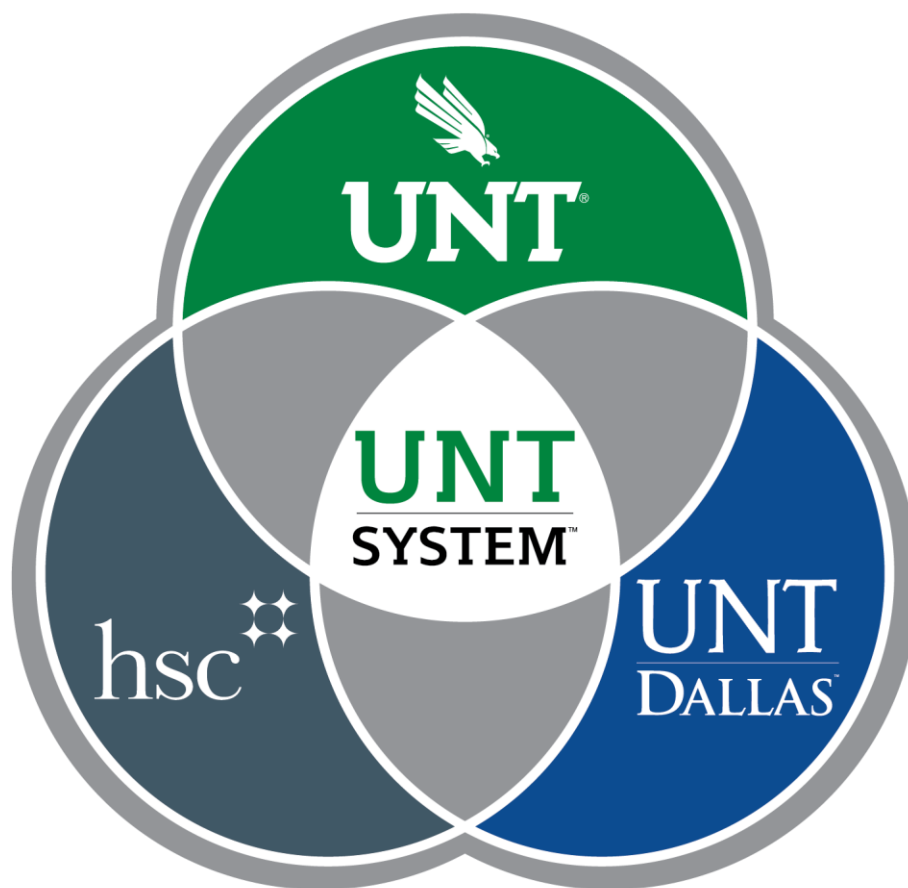


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UNIFORM GENERAL CONDITIONS
FOR CONSTRUCTION AND DESIGN CONTRACTS
2022

ARTICLE 1.
DEFINITIONS

Unless the context clearly requires another meaning, the following terms have the meaning assigned herein.

- 1.1 “Addendum/Addenda” means formally issued written or graphic modification and/or interpretations of the Construction Documents that may add to, delete from, clarify or correct the description and/or scope of the Work. Addenda are issued during the bidding phase of the project.
- 1.2 “Application for Final Payment” means Contractor’s final invoice for payment that includes any portion of the Work that has been completed for which an invoice has not been submitted, amounts owing to adjustments to the final Contract Sum resulting from approved change orders, and release of remaining Contractor’s retainage.
- 1.3 “Application for Payment” means Contractor’s monthly partial invoice for payment that includes any portion of the Work that has been completed and performed in accordance with the requirements of the Contract Documents for which an invoice has not been submitted. The Application for Payment must accurately reflect the progress of the Work, be itemized based on the Schedule of Values, bear the notarized signature of Contractor, and not include subcontracted items for which Contractor does not intend to pay.
- 1.4 “Authority Having Jurisdiction” means a federal, state, local or other regional department, or an individual such as a fire marshal, building official, electrical inspector, utility provider or other individual having statutory authority.
- 1.5 “Baseline Schedule” means the initial time schedule prepared by Contractor for Owner’s information and acceptance that conveys Contractor’s and Subcontractors’ activities (including coordination and review activities required in the Contract Documents to be performed by Design Professional and Owner), durations, and sequence of work related to the entire Project to the extent required by the Contract Documents. The schedule clearly demonstrates the Longest Path of activities, durations, and necessary predecessor conditions that drive the end date of the schedule. The Baseline Schedule shall not exceed the time limit current under the Contract Documents.
- 1.6 “Certificate of Final Completion” means the certificate issued by Design Professional that documents, to the best of Design Professional’s knowledge and understanding, Contractor’s completion of all Contractor’s Punch list items and pre-final Punch list items, final cleanup, and Contractor’s provision of Record Documents, operations and maintenance manuals, and all other closeout documents required by the Contract Documents.

- 1.7 “Certificate of Substantial Completion” means the certificate executed by the Design Professional, Owner, and Contractor that documents to the best of the Design Professional’s and Owner’s knowledge and understanding, Contractor’s sufficient completion of the Work in accordance with the Contract, so as to be operational and fit for the use intended.
- 1.8 “Change Order” means a written modification of the Contract between Owner and Contractor, agreed to and signed by Owner, Contractor, and Design Professional.
- 1.9 “Change Order Request (COR)” means a Contractor generated document which describes a change in the scope of Work, including a detailed description, Drawings and Specifications, and a request for changes to costs or time, as necessary, to inform Owner of the nature of the requested change to the Contract.
- 1.10 “Close-Out Documents” mean the product brochures, submittals, product/equipment maintenance and operations instructions, manuals, and other documents/warranties, record documents, affidavits of payment, releases of liens and claims, and other documents as may be further defined, identified, and required by the Contract Documents.
- 1.11 “Construction Cost Limitation (CCL)” means the maximum funding authorized by and available to Owner to pay for the construction of the Project, exclusive of: (I) furniture, fixtures and other equipment (FFE) not in the Contract; (ii) Owner’s Contingency; and (iii) any design and/or commissioning fees.
- 1.12 “Contract” means the agreement, including all attachments thereto, and all of the Contract Documents between Owner and Contractor.
- 1.13 “Contract Date” is the date when the agreement between Owner and Contractor becomes effective.
- 1.14 “Contract Documents” mean those documents identified as a component of the Contract between Owner and Contractor. These may include, but are not limited to: Drawings; Specifications; Uniform General Conditions; Owner’s Special Conditions; Owner’s Design Criteria Package for Design-Build Projects; Guaranteed Maximum Price Proposal executed by Owner and Contractor; all Change Orders; all pre-bid and/or pre-proposal addenda; Owner’s Request for Proposal and/or Request for Qualifications; and Contractor’s response to Owner’s Request for Proposal and/or Request for Qualifications.
- 1.15 “Contract Duration” means the period between the Effective Date of the Contract and the end of the Warranty Period.
- 1.16 “Contract Sum” means the total compensation payable to Contractor for completion of the Work in accordance with the terms of the Contract.
- 1.17 “Contract Time” means the period between the start date identified in the Notice to Proceed with construction and the date to achieve Substantial Completion identified in the Notice to Proceed or as subsequently amended by a Change Order.

- 1.18 “Contractor” means the individual, corporation, limited liability company, partnership, joint venture, firm, or other entity contracted to perform the Work, regardless of the type of construction contract used, so that the term as used herein includes a Construction Manager-at-Risk or a Design-Build firm as well as a general or prime Contractor. The Contract Documents refer to Contractor as if singular in number but shall be interpreted to include the plural. The term “Contractor” shall also be inclusive of and apply to Design Professional in these Uniform General Conditions when the context does not indicate otherwise.
- 1.19 “Construction Change Directive” means an approved change in the Work issued by the Owner without the complete agreement of Contractor as to cost and/or time.
- 1.20 “Construction Documents” mean the Drawings, Specifications, and other documents issued to build the Project. Construction Documents become part of the Contract Documents when listed in the Contract or any Change Order.
- 1.21 “Construction Manager-at-Risk”, in accordance with Tex. Education Code §51.782, means a sole proprietorship, partnership, corporation, or other legal entity that assumes the risk for construction, rehabilitation, alteration, or repair of a facility at the contracted price as a general contractor and provides consultation to Owner regarding construction during and after the design of the facility.
- 1.22 “Coordination Documents” means an ongoing process performed by the Contractor that documents, in a format approved by the Owner, the review of plans and specifications developed by the Design Professional demonstrating the Contractor understands the scope of the project and reviews complex interrelationships among project components.
- 1.23 “Date of Commencement” means the date designated in the Notice to Proceed for Contractor to commence the Work.
- 1.24 “Day” means a calendar day unless otherwise specifically stipulated.
- 1.25 “Design-Build” means a project delivery method in which the detailed design and subsequent construction is provided through a single contract with a Design-Build Firm. The Design-Build Project delivery shall be implemented in accordance with Tex. Education Code § 51.780.
- 1.26 “Design-Build Firm”, in accordance with Texas Education Code § 51.780, means a partnership, corporation, or other legal entity or team that includes an engineer or architect and builder qualified to engage in building construction in Texas.
- 1.27 “Design Professional” means a person registered as an architect pursuant to Tex. Occ. Code Ann., Chapter 1051, as a landscape architect pursuant to Tex. Occ. Code Ann., Chapter 1052, a person licensed as a professional engineer pursuant Tex. Occ. Code Ann., Chapter 1001, and/or a firm employed by Owner or Design-Build Firm to provide professional architectural or engineering services and to exercise overall responsibility for the design of a Project or a significant portion thereof, and to perform the contract administration responsibilities set forth in the Contract.

- 1.28 “Drawings” mean that product and set of documents of Design Professional which graphically depicts the Work.
- 1.29 “Final Completion” means the date determined and certified by Design Professional and Owner on which the Work is fully and satisfactorily complete in accordance with the Contract.
- 1.30 “Final Payment” means the last and final monetary compensation made to Contractor for any portion of the Work that has been completed and accepted for which payment has not been made including adjustments to the final Contract Sum resulting from approved change orders and release of Contractor’s retainage.
- 1.31 “Float” means the period of time a task can be delayed without delaying Substantial Completion Date.
- 1.32 “Historically Underutilized Business (HUB)” pursuant to Tex. Gov’t Code, Chapter 2161, means a business that is at least 51% owned by an Asian Pacific American, a Black American, a Hispanic American, a Native American and/or an American Woman; is an entity with its principal place of business in Texas; and has an owner residing in Texas with proportionate interest that actively participates in the control, operations, and management of the entity’s affairs.
- 1.33 “Longest Path” means the sequence of directly related activities that comprise the longest continuous chain of activities from the start of the first activity to the finish of the last activity. The activities represent critical path plus Float plus historical Weather Days. Each activity in the Longest Path is critical and directly related in that it prevents its successor from being scheduled earlier than it is.
- 1.34 “Notice to Proceed” means written document furnished by the Owner informing Contractor of the date to commence the Work and the date anticipated for Substantial Completion.
- 1.35 “Open Item List” means a list of work activities, Punch list items, changes, or other issues not expected by Owner, Design Professional, and Contractor to be complete prior to Substantial Completion.
- 1.36 “Owner” means the University of North Texas System and/or its component institutions, as a higher education university system and agency of the State of Texas.
- 1.37 “Owner’s Construction Manager (OCM)” means the individual assigned by the Owner to act on its behalf and to undertake certain activities as specifically outlined in the Contract. The OCM does not have the authority to bind the Owner or direct changes to the scope, cost, or time of the Contract.
- 1.38 “Owner’s Designated Representative (ODR)” means the individual assigned by Owner to act on its behalf and to undertake certain activities as specifically outlined in the Contract. The ODR is the only party authorized to direct changes to the scope, cost, or time of the Contract.
- 1.39 “Progress Assessment Report (PAR)” means the monthly compliance report to Owner verifying compliance with the HUB subcontracting plan (HSP).

- 1.40 “Project” means all activities necessary for realization and completion of Owner’s desired building or other structure including all ancillary and related work. This includes design, contract award(s), execution of the Work itself, fulfillment of all Contract and warranty obligations, and work by Owner’s forces or other contractors.
- 1.41 “Project Costs” means all costs necessary for the realization and completion of Owner’s desired building or other structure including all ancillary and related work. This includes design, contract award(s), execution of the Work itself, fulfillment of all Contract and warranty obligations, and work by Owner’s forces or other contractors.
- 1.42 “Proposal Request (PR)” means a document that informs Contractor, Owner, and Design Professional of a proposed change in the Work and appropriately describes or otherwise documents such change including Contractor’s pricing for the proposed change.
- 1.43 “Punch List” means a list of items of Work to be completed or corrected by Contractor before Final Completion, and indicates items to be finished, remaining Work to be performed, or Work that does not meet quality or quantity requirements as required in the Contract Documents.
- 1.44 “Reasonably Inferable” means a fair, proper, and moderate conclusion reached by considering all of the facts and deducing a logical conclusion from them.
- 1.45 “Record Documents” mean the Drawings, Specifications, and other materials maintained by Contractor during construction and as corrected by Design Professional, that documents all addenda, Architect’s Supplemental Instructions, Change Orders, and postings and markings that record the as-built conditions of the Work and all changes made during construction.
- 1.46 “Request for Information (RFI)” means a written request by Contractor directed to Design Professional and Owner for a clarification of the information provided in the Contract Documents or for direction concerning information necessary to perform the Work.
- 1.47 “Samples” mean representative physical examples of materials, equipment, or workmanship used to confirm compliance with requirements and/or to establish standards for use in execution of the Work.
- 1.48 “Schedule of Values” means the detailed breakdown of the cost of the materials, labor, and equipment necessary to accomplish the Work, submitted by Contractor for approval by Owner and Design Professional.
- 1.49 “Shop Drawings” mean the drawings, diagrams, illustrations, schedules, performance charts, brochures, and other data prepared by Contractor or its agents which detail a portion of the Work.
- 1.50 “Site” means the geographical area of the location of the Work.
- 1.51 “Special Conditions” mean the documents containing terms and conditions which may be unique to the Work or Project.

- 1.52 “Specifications” mean the written product of Design Professional that establishes the quality and/or performance of products utilized in the Work and processes to be used, including testing and verification for producing the Work.
- 1.53 “Subcontractor” means an individual or entity that enters into an agreement with Contractor to perform part of the Work or to provide services, materials, or equipment for use in the Work.
- 1.54 “Submittal Register” means a list provided by Contractor of all items to be furnished for review and approval by Design Professional and Owner and as identified in the Contract Documents including anticipated sequence and submittal dates.
- 1.55 “Substantial Completion” means the date determined and certified by Contractor, Design Professional, and Owner when the Work, or a designated portion thereof, is sufficiently complete, in accordance with the Contract, so as to be operational and fit for the use intended.
- 1.56 “Substantial Completion Date” means the required date for substantial completion of the project. The Substantial Completion Date can only be changed by a written change order.
- 1.57 “Total Float” means the total number of days an activity on the longest path can be delayed without delaying the Substantial Completion Date.
- 1.58 “Unit Price Work” means the Work or a portion of the Work, paid for based on incremental units of measurement.
- 1.59 “Work” means the administration, procurement, materials, equipment, construction, and all services necessary for Contractor, and/or its agents, to fulfill Contractor’s obligations under the Contract.
- 1.60 “Work Progress Schedule” means the continually updated time schedule prepared and monitored by Contractor that coordinates and integrates activities of the Project, including Contractor’s services, Design Professional’s services, the work of other consultants, suppliers, and Owner’s activities with the anticipated construction schedules for other contractors. The Work Progress Schedule accurately indicates all necessary and appropriate revisions, including a Longest Path impact analysis, as required by the conditions of the Work and the Project while maintaining a concise comparison to the Baseline Schedule.

ARTICLE 2.

WAGE RATES AND OTHER LAWS GOVERNING CONSTRUCTION

- 2.1 Environmental Regulations. Contractor shall conduct activities in compliance with applicable laws and regulations and other requirements of the Contract relating to the environment and its protection at all times. Unless otherwise specifically determined, Contractor is responsible for obtaining and maintaining permits related to storm water run-off. Contractor shall conduct operations consistent with storm water run-off permit conditions. Contractor is responsible for all items it brings to the Site, including hazardous materials, and all such items brought to the Site by

its Subcontractors and suppliers, or by other entities subject to direction of Contractor. Contractor shall not incorporate hazardous materials into the Work without prior approval of Owner, and shall provide an affidavit attesting to such in association with request for Substantial Completion inspection.

2.2 Wage Rates. Contractor shall, and shall cause subcontractors to, comply with the Texas Prevailing Wage law. Contractor shall pay not less than the wage scale of the various classes of labor as shown on the prevailing wage schedule as established by the United States Department of Labor in accordance with the Davis-Bacon Act, as amended. The specified wage rates are minimum rates only. Owner is not bound to pay any claims for additional compensation made by Contractor because Contractor pays wages in excess of the applicable minimum rate contained in the Contract. The prevailing wage schedule is not a representation that qualified labor adequate to perform the Work is available locally at the prevailing wage rates. When requested, Contractor shall furnish competent evidence of compliance with the Texas Prevailing Wage Law and the addresses of all workers.

2.2.1 Notification to Workers. Contractor shall post the prevailing wage schedule in a place conspicuous to all workers on the Project Site and shall notify each worker, in writing, of the following as they commence Work on the Contract: the worker's job classification, the established minimum wage rate requirement for that classification, as well as the worker's actual wage. The notice must be delivered to and signed in acknowledgement of receipt by the worker and must list both the wages and fringe benefits to be paid or furnished for each classification in which the worker is assigned duties.

2.2.1.1 Contractor shall submit a copy of each worker's wage-rate notification to *Owner* with the application for progress payment for the period during which the worker was engaged in activities on behalf of the Project.

2.2.1.2 Pursuant to Tex. Gov't Code § 2258.024, Contractor shall keep, on site, true and accurate records showing the name and occupation of each worker employed by the Contractor or subcontractors and the actual per diem wages paid to each worker. The record shall be open to inspection by the ODR and their agents at all reasonable hours for the duration of the contract.

2.2.1.3 With each application for progress payment, Contractor shall make available upon request certified payroll records, including from subcontractors of any tier level, on Form WH-347 as promulgated by the U.S. Department of Labor, as may be revised from time to time and in unlocked and unprotected Excel format, along with copies of any and all Contract Documents between Contractor and any Subcontractor. Pursuant to Tex. Penal Code § 37.02 and 37.10, Employees of Contractor and subcontractors, including all tier levels, shall be subject to prosecution for submitting certified payroll records that contain materially false information.

- 2.2.1.4 The prevailing wage schedule is determined by Owner in compliance with Tex. Gov't Code, Chapter 2258. Should Contractor at any time become aware that a particular skill or trade not reflected on Owner's prevailing wage schedule will be or is being employed in the Work, whether by Contractor or by Subcontractor, Contractor shall promptly inform *Owner* of the proposed wage to be paid for the skill along with a justification for same and *Owner* shall promptly concur with or reject the proposed wage and classification.
- 2.2.1.5 Contractor is responsible for determining the most appropriate wage for a particular skill in relation to similar skills or trades identified on the prevailing wage schedule. In no case, shall any worker be paid less than the wage indicated for laborers.
- 2.2.1.6 Pursuant to Tex. Labor Code § 214.008, Misclassification of Workers; Penalty, Owner requires Contractor and all subcontractors properly classify individuals as employees or independent contractors.
- 2.2.2 Penalty for Violation. Contractor, and any Subcontractor, will pay to the State a penalty of sixty dollars (\$60) for each worker employed for each day, or portion thereof, that the worker is paid less than the wage rates stipulated in the prevailing wage schedule.
- 2.2.3 Complaints of Violations.
- 2.2.3.1 Owner's Determination of Good Cause. Upon receipt of information concerning a violation, Owner will conduct an investigation in accordance with Tex. Gov't Code, Chapter 2258, and make an initial determination as to whether good cause exists that a violation occurred. Upon making a good cause finding, Owner will retain the full amounts claimed by the claimant or claimants as the difference between wages paid and wages due under the prevailing wage schedule and any supplements thereto, together with the applicable penalties, such amounts being subtracted from successive progress payments pending a final decision on the violation.
- 2.2.3.2 No Extension of Time. If Owner's determination proves valid that good cause existed to believe a violation had occurred, Contractor is not entitled to an extension of time for any delay arising directly or indirectly from the arbitration procedures.
- 2.2.3.3 Cooperation with Owner's Investigation. Contractor shall cooperate with Owner during any investigation hereunder. Such cooperation shall include, but not necessarily be limited to, timely providing the information and/or documentation requested by Owner, which may include certified payroll records on Form WH-347 as promulgated by the U.S Department of Labor, as may be revised from time to time and in unlocked and unprotected Excel

format; and copies of any and all Contract Documents between Contractor and any Subcontractors.

2.2.3.4 Notification to Owner. In the event Contractor or Subcontractor elect to appeal an initial determination made pursuant to Paragraph 2.2.3.1, the Contractor and/or Subcontractor, as applicable, shall deliver notice thereof to Owner.

2.3 Licensing of Trades. Contractor shall comply with all applicable provisions of State law related to license requirements for skilled tradesmen, contractors, suppliers, and laborers, as necessary to accomplish the Work. In the event Contractor, or one of its Subcontractors, loses its license during the term of performance of the Contract, Contractor shall promptly hire or contract with a licensed provider of the service at no additional cost to Owner.

2.4 Royalties, Patents, and Copyrights. Contractor shall pay all royalties and license fees, defend suits or claims for infringement of copyrights and patent rights, and shall hold Owner harmless from loss on account thereof. Provided, however, if Contractor is a Construction Manager-at-Risk, Contractor shall not be responsible for such defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by Owner or Design Professional; unless Contractor has reason to believe that the required design, process, or product is an infringement of a copyright or a patent then Contractor shall be responsible for such loss unless notice of such information is promptly furnished to Design Professional.

2.5 State Sales and Use Taxes. Owner qualifies for exemption from certain State and local sales and use taxes pursuant to the provisions of Tex. Tax Code, Chapter 151. Upon request from Contractor, Owner shall furnish evidence of tax-exempt status. Contractor may claim exemption from payment of certain applicable State taxes by complying with such procedures as prescribed by the State Comptroller of Public Accounts. Owner acknowledges not all items qualify for exemption. Owner is not obligated to reimburse Contractor for taxes paid on items that qualify for tax exemption.

2.6 Antiquities. Contractor shall take precaution to avoid disturbing primitive records and antiquities of archaeological, paleontological, or historical significance. No objects of this nature shall be disturbed without written permission of Owner and the Texas Historical Commission. When such objects are uncovered unexpectedly, the Contractor shall stop all Work in close proximity and notify the OCM and the Texas Historical Commission of their presence and shall not disturb them until written permission and permit to do so is granted. All primitive rights and antiquities, as defined in Chapter 191, Texas Natural Resource Code, discovered on the Owner's property shall remain property of State of Texas. If it is determined by Owner, in consultation with the Texas Historical Commission that exploration or excavation of primitive records or antiquities on the Project Site is necessary to avoid loss, Contractor shall cooperate in salvage work attendant to preservation. If the Work stoppage or salvage work causes an increase in the Contractor's cost of, or time required for, performance of the Work, Contractor may notify the Owner in accordance with Article 14.

- 2.7 Franchise Tax Status. Upon request, the Contractor agrees to execute and provide to the Owner a Certification of Franchise Tax Payment, on a form approved by the Owner.

ARTICLE 3.
GENERAL RESPONSIBILITIES OF OWNER

- 3.1 Preconstruction Conference. Prior to, or concurrent with, the issuance of Notice to Proceed, a conference will be convened for attendance by Owner, Contractor, Design Professional and appropriate Subcontractors. The purpose of the conference is to establish a working understanding among the parties as to the Work, the operational conditions at the Project Site, and general administration of the Project. Topics include communications, schedules, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, maintaining required records and all other matters of importance to the administration of the Project and effective communications between the Project team members.
- 3.2 Owner's Construction Manager (OCM). Prior to the start of construction, Owner will identify its OCM, who has the express authority to act on behalf of the Owner to the extent and for the purposes described in the Contract, including responsibilities for general administration of the Contract.
- 3.2.1 Point of Contact. Unless otherwise specifically defined elsewhere in the Contract Documents, OCM is the single point of contact between Owner and Contractor. Notice to OCM, unless otherwise noted, constitutes notice to Owner under the Contract.
- 3.2.2 Directives. All directives on behalf of Owner will be conveyed to Contractor and Design Professional by OCM in writing.
- 3.3 Owner Supplied Materials and Information.
- 3.3.1 Surveys. Owner will furnish to Contractor those surveys Owner possesses describing the physical characteristics, legal description, limitations of the Site, Site utility locations, and other information used in the preparation of the Contract Documents.
- 3.3.2 Drawings and Specifications. Owner will furnish or cause to be furnished, free of charge, the number of complete sets, paper or electronic, of the Drawings, Specifications, and addenda as provided in the Contract.
- 3.3.3 Other Information. Owner will provide information, equipment, or services under Owner's control to Contractor with reasonable promptness.
- 3.4 Availability of Lands. Owner will furnish, as indicated in the Contract, all required rights to use the lands upon which the Work occurs. This includes rights-of-way and easements for access and such other lands that are designated for use by Contractor. Contractor shall comply with all Owner identified encumbrances or restrictions specifically related to use of lands so furnished. Owner

will obtain and pay for easements for permanent structures or permanent changes in existing facilities, unless otherwise required in the Contract Documents.

3.5 Limitation on Owner's Duties.

3.5.1 No Control. Owner will not supervise, direct, control or have authority over, or be responsible for Contractor's means, methods, technologies, sequences, or procedures of construction or the safety precautions and programs incident thereto. Owner is not responsible for any failure of Contractor to comply with laws and regulations applicable to the Work. Owner is not responsible for the failure of Contractor to perform or furnish the Work in accordance with the Contract Documents. Except as provided herein, Owner is not responsible for the acts or omissions of Contractor, or any of its Subcontractors, suppliers, or of any other person or organization performing or furnishing any of the Work on behalf of Contractor.

3.5.2 No Contravention of Design Professional. Owner will not take any action in contravention of a design decision made by Design Professional in preparation of the Contract Documents, when such actions are in conflict with statutes under which Design Professional is licensed for the protection of the public health and safety.

ARTICLE 4.

GENERAL RESPONSIBILITIES OF DESIGN PROFESSIONAL

4.1 Role of Design Professional. Unless specified otherwise in the Contract between Owner and Contractor, in addition to design services Design Professional shall provide general administration services for Owner during the construction phase of the project. Written correspondence, RFIs, and Shop Drawings/submittals shall be directed to Design Professional for determination and action. Design Professional has the authority to act on behalf of Owner to the extent provided in the Contract Documents, unless otherwise modified by written instrument, which will be furnished to Contractor by OCM, upon request.

4.2 Site Visits. Design Professional will make visits to the Site at intervals as provided in the Design Professional's Contract with Owner, to observe the progress and the quality of the various aspects of Contractor's executed Work and report findings to OCM.

4.3 Inspections. Design Professional has the authority to interpret Contract Documents and inspect the Work for compliance and conformance with the Contract. Except as referenced in Paragraph 3.1.5.2, Owner retains the sole authority to accept or reject Work and issue direction for correction, removal, or replacement of Work.

4.4 Clarifications and Interpretations. It may be determined that clarifications or interpretations of the Contract Documents are necessary. Such clarifications or interpretations will be provided by Design Professional consistent with the intent of the Contract Documents. Design Professional will issue these clarifications with reasonable promptness to Contractor as Design Professional's supplemental instruction ("ASI") or similar instrument. If Contractor believes that such

clarification or interpretation justifies an adjustment in the Contract Sum or the Contract Time, Contractor shall so notify Owner in accordance with the provisions of Article 14.

4.5 Limitations on Design Professional Authority. Design Professional is not responsible for:

- Contractor's means, methods, techniques, sequences, procedures, safety, or programs incident to the Work, nor will Design Professional supervise, direct, control, or have authority over the same;
- The failure of Contractor to comply with laws and regulations applicable to the furnishing or performing the Work;
- Contractor's failure to perform or furnish the Work in accordance with the Contract Documents; or
- Acts or omissions of Contractor, or of any other person or organization performing or furnishing any of the Work.

ARTICLE 5.

GENERAL RESPONSIBILITIES OF CONTRACTOR

5.1 Contractor's General Responsibilities. Contractor is solely responsible for implementing the Work in full compliance with all applicable laws and the Contract Documents and shall supervise and direct the Work using the best skill and attention to assure that each element of the Work conforms to the Contract requirements. Contractor is solely responsible for all construction means, methods, techniques, safety, sequences, coordination, procedures and protection of the installed work as part of the contract until Substantial Completion of the project. Contractor remains responsible for the care and protection of materials and Work in the areas where Punch list items are completed until Final Completion.

5.1.1 Site Visit. Contractor shall visit the Site before commencing the Work and become familiar with local conditions such as the location, accessibility and general character of the Site and/or building. Contractor shall evaluate and plan for all construction related activities that will potentially impact the safety of students, staff, and visitors. A site-specific safety plan must be provided to the OCM prior to the commencement of any construction activities. The site-specific safety plan must include, at the minimum, project site controls and safety, building locations, delivery logistics, project offices, materials staging and parking.

5.2 Project Administration. Contractor shall provide Project administration for all Subcontractors, vendors, suppliers, and others involved in implementing the Work and shall coordinate administration efforts with those of Design Professional and OCM in accordance with these Uniform General Conditions and other provisions of the Contract, and as outlined in the pre-construction conference. Contractor's Project Administration includes periodic daily reporting on weather, work progress, labor, materials, equipment, obstruction to prosecution of the work, accidents and injuries in accordance with the Contract and transmitted no less frequently than on a weekly basis.

- 5.2.1 Contractor's Management Personnel. Contractor shall employ a competent person or persons who will be present at the Project Site during the progress of the Work to supervise or oversee the Work. Contractor's management personnel are subject to the approval of OCM, and shall be removed and replaced at the request of OCM. Contractor shall not change approved staff during the course of the Project without the written approval of OCM unless the staff member leaves the employment of Contractor in which case Contractor shall notify OCM and appoint an approved replacement as soon as reasonably possible. Contractor shall provide additional quality control, safety, and other staff as may be stated in the Contract Documents or as may be necessary or advisable for completion of the Work.
- 5.2.2 Labor. Contractor shall provide competent, suitably qualified personnel to survey, lay-out, and construct the Work as required by the Contract Documents and maintain good discipline and order at the Site at all times.
- 5.2.3 Services, Materials, and Equipment. Unless otherwise specified, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities, incidentals, and services necessary for the construction, performance, testing, start-up, inspection, and completion of the Work. The Contractor shall provide, without extra charge, all incidental items required as a part of the Work, even if not particularly specified or indicated in the Contract Documents.
- 5.2.4 No Substitutions without Approval. Contractor may make substitutions only with the consent of the Owner, after evaluation and recommendation by the Design Professional and in accordance with a Change Order.
- 5.3 Owner Equipment or Material. For Owner furnished equipment or material that will be in the care, custody, and control of Contractor, Contractor will be responsible for any damage or loss.
- 5.4 Non-Compliant Work. Should Design Professional and/or OCM identify Work as noncompliant with the Contract Documents, Design Professional and/or OCM shall communicate the finding to Contractor, and Contractor shall correct such Work at no additional cost to the Owner. The approval of Work by either Design Professional or OCM does not relieve Contractor from the obligation to comply with all requirements of the Contract Documents.
- 5.5 Subcontractors. Contractor shall not employ any Subcontractor, supplier, or other person or organization, whether initially or as a substitute, against whom Owner shall have reasonable objection. Owner will communicate such objections in writing within ten (10) days of receipt of Contractor's intent to use such Subcontractor, supplier, or other person or organization. Contractor is not required to employ any Subcontractor, supplier, or other person or organization to furnish any of the work to whom Contractor has reasonable objection. Contractor shall not substitute Subcontractors without the acceptance of Owner.

- 5.5.1 Contract Documents. All Subcontracts and supply contracts shall be consistent with and bind the Subcontractors and suppliers to the terms and conditions of the Contract Documents including provisions of the Contract between Contractor and Owner.
- 5.5.2 Scheduling. Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, suppliers, and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract or subcontract with Contractor. Contractor shall require all Subcontractors, suppliers, and such other persons and organizations performing or furnishing any of the Work to communicate with Owner only through Contractor. Contractor shall furnish to Owner a copy, at Owner's request, of each first-tier subcontract promptly after its execution. Contractor agrees that Owner has no obligation to review or approve the content of such contracts and that providing Owner such copies in no way relieves Contractor of any of the terms and conditions of the Contract, including, without limitation, any provisions of the Contract which require the Subcontractor to be bound to Contractor in the same manner in which Contractor is bound to Owner.
- 5.6 Continuing the Work. Contractor shall carry on the Work and adhere to the progress schedule during all disputes, disagreements, or alternative resolution processes with Owner. Contractor shall not delay or postpone any Work because of pending unresolved disputes, disagreements, or alternative resolution processes, except as Owner and Contractor may agree in writing.
- 5.7 Cleaning. Contractor shall at all times, keep the Site and the Work clean and free from accumulation of waste materials or rubbish caused by the construction activities under the Contract. Contractor shall ensure that the entire Project is thoroughly cleaned prior to requesting Substantial Completion inspection and, again, upon completion of the Project prior to the final inspection.
- 5.8 Acts and Omissions of Contractor, its Subcontractors, and Employees. Contractor shall be responsible for acts and omissions of its employees and its Subcontractors and their agents and employees. Owner may, in writing, require Contractor to remove from the Project any of Contractor's or its Subcontractor's employees or agents whom OCM finds to be careless, incompetent, unsafe, uncooperative, disruptive, or otherwise objectionable.
- 5.9 Ancillary Areas. Contractor shall operate and maintain operations and associated storage areas at the site of the Work in accordance with the following:
- All Contractor operations, including storage of materials and employee parking upon the Site of Work, shall be confined to areas designated by OCM.
 - Contractor may erect, at its own expense, temporary buildings that will remain its property. Contractor will remove such buildings and associated utility service lines upon completion of the Work, unless Contractor requests and Owner provides written consent that it may abandon such buildings and utilities in place.
 - Contractor will use only established roadways or construct and use such temporary roadways as may be authorized by OCM. Contractor will not allow load limits of

vehicles to exceed the limits prescribed by appropriate regulations or law. Contractor will provide protection to road surfaces, curbs, sidewalks, trees, shrubbery, sprinkler systems, drainage structures, and other like existing improvements to prevent damage and will repair any damage thereto at the expense of Contractor.

- Owner may restrict Contractor's entry to the Site to specifically assigned entrances and routes.

5.10 Off-Site Storage. With prior approval by Owner and in the event, Contractor elects to store materials at an off-site location, Contractor must abide by the following conditions, unless otherwise agreed to in writing by Owner:

- Store materials in a commercial warehouse meeting the criteria stated below.
- Provide insurance coverage adequate not only to cover materials while in storage, but also in transit from the off-site storage areas to the Project Site. Copies of duly authenticated certificates of insurance must be filed with Owner's representative.
- Inspection by Owner's representative is allowed at any time. OCM must be satisfied with the security, control, maintenance, and preservation measures.
- Materials for this Project must be physically separated and marked for the Project in a sectioned-off area. Only materials which have been approved through the submittal process are to be considered for payment.
- Owner reserves the right to reject materials at any time prior to final acceptance of the complete Contract if they do not meet Contract requirements regardless of any previous progress payment made.
- With each monthly payment estimate, Contractor must submit a report to OCM and Design Professional listing the quantities of materials already paid for and still stored in the off-site location.
- Contractor must make warehouse records, receipts, and invoices available to Owner's representatives, upon request, to verify the quantities and their disposition.
- In the event of Contract termination or default by Contractor, the items in storage off-site, upon which payment has been made, will be promptly turned over to Owner or Owner's agents in place or at a location near the jobsite as directed by OCM. The full provisions of performance and payment bonds on this Project cover the materials off-site in every respect as though they were stored on the Project Site.

5.11 Separate Contracts. Owner reserves the right to award other contracts in connection with the Project or other portions of the Project under the same or substantially similar contract conditions, including those portions related to insurance and waiver of subrogation. Owner reserves the right to perform operations related to the Project with Owner's own forces.

5.11.1 Continuation of Contract. Under a system of separate contracts, the conditions described herein continue to apply except as may be amended by Amendment or Change Order.

- 5.11.2 Cooperation. Contractor shall cooperate with other contractors or forces employed on the Project by Owner, including providing access to Site, integration of activities within Contractor's Work Progress Schedule and Project information as requested.
- 5.11.3 Reimbursement. Owner shall be reimbursed by Contractor for costs incurred by Owner which are payable to a separate contractor because of delays, improperly timed activities, or defective construction by Contractor. Owner will equitably adjust the Contract by Change Order for costs incurred by Contractor because of delays, improperly timed activities, damage to the Work, or defective construction by a separate contractor.

ARTICLE 6.

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) SUBCONTRACTING PLAN

- 6.1 General Description. The purpose of the Historically Underutilized Business (HUB) program is to promote equal business opportunities for economically disadvantaged persons (as defined by Tex. Gov't Code, Chapter 2161) to contract with the State of Texas in accordance with the goals specified in the State of Texas Disparity Study. The HUB program annual procurement utilization goals are defined in 34 T.A.C. § 20.284.
- 6.1.1 Good Faith Effort.
- 6.1.1.1 State agencies are required by statute to make a good faith effort to assist HUBs in participating in contract awards issued by the State. 34 T.A.C., Chapter 20, Subchapter D, Division 1 outlines the State's policy to encourage the utilization of HUBs in State contracting opportunities through race, ethnic, and gender-neutral means.
- 6.1.1.2 A Contractor who contracts with the State in an amount of \$100,000 or greater is required to make a good faith effort to award subcontracts to HUBs in accordance with 34 T.A.C. § 20.285 by submitting a HUB subcontracting plan within twenty-four (24) hours after the bid or response is due and complying with the HUB subcontracting plan after it is accepted by Owner and during the term of the Contract.
- 6.2 Compliance with Approved HUB Subcontracting Plan. Contractor, having been awarded this Contract in part by complying with the HUB program statute and rules, hereby covenants to continue to comply with the HUB program as follows:
- Prior to adding or substituting a Subcontractor, promptly notify Owner in the event a change is required for any reason to the accepted HUB subcontracting plan.
 - Conduct the good-faith effort activities required, and provide Owner with necessary documentation to justify approval of a change to the approved HUB subcontracting plan.
 - Cooperate in the execution of a Change Order or such other approval of the change in the HUB subcontracting plans as Contractor and Owner may agree to.

- Maintain and make available to Owner upon request business records documenting compliance with the accepted HUB subcontracting plan.
- Upon receipt of payment for performance of Work, submit to Owner a compliance report, in the format required by Owner that demonstrates Contractor's performance of the HUB subcontracting plan.
- Submit monthly Progress Assessment Reports (PAR) to Owner, verifying compliance with the HUB subcontracting plan, including the use/expenditures made made/to Subcontractors. (The PAR is available at the following link: [http://www.window.state.tx.us/procurement/prog/hub/hub-forms/.](http://www.window.state.tx.us/procurement/prog/hub/hub-forms/))
- Promptly and accurately explain and provide supplemental information to Owner to assist in Owner's investigation of Contractor's good-faith effort to fulfill the HUB subcontracting plan and the requirements under 34 T.A.C. § 20.285.

6.3 Failure to Demonstrate Good-Faith Effort. Upon a determination by Owner that Contractor has failed to demonstrate a good-faith effort to fulfill the HUB subcontracting plan or any Contract covenant detailed above, Owner may, in addition to all other remedies available to it, report the failure to perform to the Comptroller of Public Accounts, Texas Procurement and Support Services Division, Historically Underutilized Business Program and may bar Contractor from future contracting opportunities with Owner.

ARTICLE 7.

BONDS

7.1 Construction Bonds. Contractor is required to tender to Owner, prior to commencing the Work, performance and payment bonds, as required by Tex. Gov't Code, Chapter 2253.

7.2 Bond Requirements. Each bond shall be executed by a corporate surety or sureties authorized to do business in the State of Texas, acceptable to Owner, and in compliance with the relevant provisions of the Texas Insurance Code. If any bond is for more than ten percent (10%) of the surety's capital and surplus, Owner may require certification that the company has reinsured the excess portion with one or more reinsurers authorized to do business in the State. A reinsurer may not reinsure for more than ten percent (10%) of its capital and surplus. If a surety upon a bond loses its authority to do business in the State, Contractor shall, within thirty (30) days after such loss, furnish a replacement bond at no added cost to Owner.

7.2.1 Performance Bonds. A Performance bond is required if the Contract Sum is in excess of \$100,000. The performance bond is solely for the protection of Owner. The performance bond is to be for the Contract Sum to guarantee the faithful performance of the Work in accordance with the Contract Documents. For Design-Build Projects the performance bond is to be for the full amount of both the construction and design services in accordance with the Contract Documents. The form of the bond shall be approved by Owner. The performance bond shall be effective through Contractor's warranty period.

- 7.2.2 Payment Bonds. A Payment bond is required if the Contract Sum is in excess of \$25,000. The payment bond is to be for the Contract Sum and is payable to Owner solely for the protection and use of payment bond beneficiaries. For Design-Build Projects the payment bond is to be for the full amount of both the construction and design services in accordance with the Contract Documents. The form of the bond shall be approved by Owner.
- 7.2.3 When Bonds Are Due. Payment and performance bonds are due before Contractor commences any Work.
- 7.2.4 Power of Attorney. Each bond shall be accompanied by a valid power of attorney (issued by the surety company and attached, signed and sealed with the corporate embossed seal, to the bond) authorizing the attorney-in-fact who signs the bond to commit the company to the terms of the bond, and stating any limit in the amount for which the attorney can issue a single bond.
- 7.3 Bond Indemnification. The process of requiring and accepting bonds and making claims thereunder shall be conducted in compliance with Tex. Gov't Code, Chapter 2253. IF FOR ANY REASON A STATUTORY PAYMENT OR PERFORMANCE BOND IS NOT HONORED BY THE SURETY, CONTRACTOR SHALL FULLY INDEMNIFY AND HOLD HARMLESS OWNER, AND ITS COMPONENT INSTITUTIONS, REGENTS, ELECTED AND APPOINTED OFFICIALS, DIRECTORS, OFFICERS, EMPLOYEES, AGENTS, REPRESENTATIVES, AND VOLUNTEERS, FROM AND AGAINST ANY COSTS, LOSSES, OBLIGATIONS, OR LIABILITIES IT INCURS AS A RESULT.
- 7.3.1 Furnishing Bond Information. Owner shall furnish certified copies of the payment bond and the related Contract to any qualified person seeking copies who complies with Tex. Gov't Code § 2253.026.
- 7.3.2 Claims on Payment Bonds. Claims on payment bonds must be sent directly to Contractor and his surety in accordance with Tex. Gov't Code § 2253.041. All payment bond claimants are cautioned that no lien exists on the funds unpaid to Contractor on such Contract, and that reliance on notices sent to Owner may result in loss of their rights against Contractor and/or his surety. Owner is not responsible in any manner to a claimant for collection of unpaid bills, and accepts no such responsibility because of any representation by any agent or employee.
- 7.4 Payment of Claims when Payment Bond is Not Required. The rights of Subcontractors regarding payment are governed by Tex. Prop. Code § 53.231 – 53.239 when the value of the Contract between Owner and Contractor is less than \$25,000.00. These provisions set out the requirements for filing a valid lien on funds unpaid to Contractor as of the time of filing the claim, and actions necessary to release the lien and satisfaction of such claim.
- 7.5 Sureties. A surety shall be listed on the US Department of the Treasury's Listing of Approved Sureties maintained by the Bureau of Financial Management Service (FMS), <https://fiscal.treasury.gov/surety-bonds/list-certified-companies.html>, stating companies holding

Certificates of Authority as acceptable sureties on federal bonds and acceptable reinsuring companies (FMS Circular 570). The Owner will consider acceptable any corporate surety which is qualified under this paragraph and which has a rating of at least B in Best's Insurance Reports – Property – Casualty.

- 7.6 Bond Costs. The costs of bonds are a pass-through amount to the Owner. No markup amounts are to be included and documentation of bond costs are required in requests for payment. Any costs associated with subcontractor bonds or SubGuard-related items are not paid by the Owner in General Conditions or Cost of Work.

ARTICLE 8.
INDEMNITY AND INSURANCE

- 8.1 **Indemnification of Owner. Contractor covenants and agrees to FULLY INDEMNIFY and HOLD HARMLESS Owner, and its component institutions, Regents, elected and appointed officials, directors, officers, employees, agents, representatives, and volunteers, individually or collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability, and suits of any kind and nature, including but not limited to, personal or bodily injury, death, or property damage, made upon Owner directly or indirectly arising out of, resulting from, or related to Contractor's activities under the Contract, including any acts or omissions of Contractor, or any director, officer, employee, agent, representative, consultant, or Subcontractor of Contractor, and their respective directors, officers, employees, agents, and representatives while in the exercise of performance of the rights or duties under the Contract. The indemnity provided for in this paragraph does not apply to any liability resulting from the negligence of Owner or separate contractors in instances where such negligence causes personal injury, death, or property damage. IN THE EVENT CONTRACTOR AND OWNER ARE FOUND JOINTLY LIABLE BY A COURT OF COMPETENT JURISDICTION, LIABILITY WILL BE APPORTIONED COMPARATIVELY IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS, WITHOUT WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO THE STATE UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW.**

- 8.1.1 **No Third-Party Beneficiaries.** The provisions of this indemnification are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity.

- 8.1.2 **Notice.** Contractor shall promptly advise Owner in writing of any claim or demand against Owner or against Contractor known to Contractor related to or arising out of Contractor's activities under this Contract.

- 8.1.3 The indemnity provisions shall survive the termination of the Contract regardless of the reason for termination.

8.2 Insurance Requirements. Design Professional shall carry insurance in the types and amounts indicated in the Contract for the duration of the Contract. Unless otherwise provide for in the Contract, Contractor shall carry insurance in the types and amounts indicated in these Uniform General Conditions for the duration of the Contract. The insurance shall be evidenced by delivery to Owner of certificates of insurance executed by the insurer or its authorized agent stating coverage, limits, expiration dates, and compliance with all applicable required provisions. Upon request, Owner and its agents shall be entitled to receive, without expense, copies of the policies and all endorsements. Contractor shall update all expired policies prior to submission for monthly payment. Failure to update policies shall be reason for withholding of payment until renewal is provided to Owner.

8.2.1 Period of Coverage. Contractor, consistent with its status as an independent contractor, shall provide and maintain all insurance coverages with the minimum amounts described below until the end of the warranty period unless expressly agreed otherwise. Failure to maintain insurance coverage, as required, is grounds for suspension of Work for cause pursuant to Article 17.

8.2.2 Certificates. Contractor shall deliver to Owner true and complete copies of certificates and corresponding policy endorsements prior to the issuance of any Notice to Proceed.

8.2.3 Failure to Provide Certificates. Failure of Owner to demand such certificates or other evidence of Contractor's full compliance with these insurance requirements or failure of Owner to identify a deficiency in compliance from the evidence provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

8.2.4 Contractor's Liability. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner in the Contract Documents.

8.2.5 Insurance Limits. The insurance coverage and limits established herein shall not be interpreted as any representation or warranty that the insurance coverage and limits necessarily will be adequate to protect Contractor.

8.2.6 Insurers. Coverage shall be written on an occurrence basis by companies authorized and admitted to do business in the State of Texas and rated A-, VII or better by A.M. Best Company or similar rating company or otherwise acceptable to Owner.

8.3 Insurance Coverage Required.

8.3.1 Workers' Compensation Insurance. Coverage with limits as required by the Texas Workers' Compensation Act, with the policy endorsed to provide a waiver of subrogation as to Owner, and Employer's Liability Insurance with limits of not less than:

- \$1,000,000 each accident;
- \$1,000,000 disease each employee; and
- \$1,000,000 disease policy limit.

- Workers' compensation insurance coverage must meet the statutory requirements of Tex. Lab. Code § 401.011(44), and requirements specific to construction projects for public entities as required by Tex. Lab. Code § 406.096.
- Policies must include (a) Other States Endorsement to include TEXAS if business is domiciled outside the State of Texas, and (b) a waiver of all rights of subrogation in favor of Owner.

8.3.2 Commercial General Liability Insurance. Coverage including premises, operations, independent contractor's liability, products, and completed operations and contractual liability, covering, but not limited to, the liability assumed under the indemnification provisions of this Contract, fully insuring Contractor's (or Subcontractor's) liability for bodily injury (including death) and property damage with a minimum limit of:

- \$1,000,000 per occurrence;
- \$2,000,000 general aggregate;
- \$5,000 Medical Expense each person;
- \$1,000,000 Personal Injury and Advertising Liability;
- \$2,000,000 products and completed operations aggregate;
- \$50,000 Damage to Premises Rented by You; and
- Coverage shall be on an "occurrence" basis.
- The policy shall include coverage extended to apply to completed operations and explosion, collapse, and underground hazards. The policy shall include endorsement CG2503 Amendment of Aggregate Limits of Insurance (per Project) or its equivalent.
- If the Work involves any activities within fifty (50) feet of any railroad, railroad protective insurance as may be required by the affected railroad, written for not less than the limits required by such railroad.

8.3.3 Asbestos Abatement Liability Insurance. Coverage including coverage for liability arising from the encapsulation, removal, handling, storage, transportation, and disposal of asbestos containing materials. This requirement applies if the Work or the Project includes asbestos containing materials.

- The combined single limit for bodily injury and property damage will be a minimum of \$1,000,000 per occurrence.
- Specific requirement for claims-made form: Required period of coverage will be determined by the following formula: continuous coverage for life of the Contract, plus one (1) year (to provide coverage for the warranty period), and an extended discovery period for a minimum of five (5) years which shall begin at the end of the warranty period.
- Employer's liability limits for asbestos abatement will be:
 - \$1,000,000 each accident;
 - \$1,000,000 disease each employee; and
 - \$1,000,000 disease policy limit.

8.3.4 Comprehensive Automobile Liability Insurance. Coverage covering owned, hired, and non-owned vehicles, with a minimum combined single limit for bodily injury (including death) and property damage of \$1,000,000 per occurrence. No aggregate shall be permitted for this type of coverage.

- Such insurance is to include coverage for loading and unloading hazards.
- Contractor, or any subcontractor of Contractor, responsible for transporting asbestos or other hazardous materials defined as asbestos shall provide pollution coverage for any vehicle hauling asbestos containing cargo. The policy must include an MCS 90 endorsement with a \$5,000,000 limit and the CA 9948 Pollution Endorsement, or its equivalent.

8.3.5 All-Risk Builder's Risk Insurance. Coverage shall be all-risk (or all-risk installation floater for instances in which the project involves solely the installation of material and/or equipment), including, but not limited to, fire, extended coverage, vandalism and malicious mischief, theft and, if applicable, flood, earth movement and named storm. Builder's risk and installation floater limits shall be equal to 100 percent of the Contract Sum plus, if any, existing property and Owner-furnished equipment specified by Owner. The policy shall be written jointly in the names of Owner and Contractor. Subcontractors shall be named as additional insureds. The policy shall have endorsements as follows:

- This insurance shall be specific as to coverage and not contributing insurance with any permanent insurance maintained on the property.
- This insurance shall not contain an occupancy clause suspending or reducing coverage should Owner partially occupy the Site and before the parties have determined Substantial Completion.
- Loss, if any, shall be adjusted with and made payable to Owner as trustee for the insureds as their interests may appear. Owner shall be named as loss payee.
- For renovation projects or projects that involve portions of Work contained within an existing structure, refer to Supplementary or Special Conditions for possible additional builder's risk insurance requirements.
- For Owner furnished equipment or materials that will be in care, custody or control of Contractor, Contractor will be responsible for damage and loss.
- For those properties located within a Tier 1 or 2 windstorm area, named storm coverage must be provided with limits specified by Owner.
- For those properties located in flood prone areas, flood insurance coverage must be provided with limits specified by Owner.
- Builder's risk insurance policy shall remain in effect until Substantial Completion.
- If this Contract is for asbestos abatement only, the foregoing All-Risk Builder's Risk or All-Risk Installation Floater is not required.

8.3.6 "Umbrella" Liability Insurance. Coverage during the Contract term, insuring Contractor (or Subcontractor) that provides coverage at least as broad as and applies in excess and follows form of the primary liability coverage required above. The policy shall provide

“drop down” coverage where underlying primary insurance coverage limits are insufficient or exhausted.

- “Umbrella” Liability Insurance coverage shall be for the following Contract amounts in the corresponding coverage amounts:

<u>Contract Amount</u>	<u>Occurrence</u>	<u>Annual Aggregate</u>
< \$1,000,000	No Umbrella	
\$1,000,000 up to < \$3,000,000	\$1,000,000	\$2,000,000
\$3,000,000 up to < \$5,000,000	\$5,000,000	\$5,000,000
\$5,000,000 or greater	\$10,000,000	\$10,000,000

8.4 Policy Requirements. Policies must include the following clauses, as applicable:

- This insurance shall not be suspended, voided, canceled, materially changed, or non-renewed except after thirty (30) days, or ten (10) days for non-payment of premium, written notice has been given to Owner.
- It is agreed that Contractor’s insurance shall be deemed primary with respect to any insurance or self-insurance carried by Owner for liability arising out of operations under the Contract with Owner.
- Owner, its officials, directors, employees, representatives, and volunteers are added as additional insureds with respect to operations and activities of, or on behalf of the named insured performed under the Contract with Owner. The additional insured status must cover completed operations as well. This is not applicable to workers’ compensation policies.
- A waiver of subrogation in favor of Owner shall be provided in all policies.
- If Owner is damaged by the failure of Contractor (or Subcontractor) to maintain insurance as required herein and/or as further described in Owner’s Special Conditions, then Contractor shall bear all reasonable costs properly attributable to that failure.

8.5 Subcontractor Insurance Coverage. **WITHOUT LIMITING ANY OF THE OTHER OBLIGATIONS OR LIABILITIES OF CONTRACTOR, CONTRACTOR SHALL REQUIRE EACH SUBCONTRACTOR PERFORMING WORK UNDER THE CONTRACT TO MAINTAIN DURING THE TERM OF THE CONTRACT, THE SAME STIPULATED MINIMUM INSURANCE INCLUDING THE REQUIRED PROVISIONS AND ADDITIONAL POLICY CONDITIONS AS SHOWN ABOVE, AS AN ALTERNATIVE, CONTRACTOR MAY INCLUDE ITS SUBCONTRACTORS AS ADDITIONAL INSURED ON ITS OWN COVERAGE AS PRESCRIBED UNDER THESE REQUIREMENTS. CONTRACTOR’S CERTIFICATE OF INSURANCE SHALL NOTE IN SUCH EVENT THAT SUBCONTRACTORS ARE INCLUDED AS ADDITIONAL INSURED AND THAT CONTRACTOR AGREES TO PROVIDE WORKERS’ COMPENSATION FOR SUBCONTRACTORS AND THEIR EMPLOYEES. CONTRACTOR SHALL OBTAIN AND MONITOR THE CERTIFICATES OF**

INSURANCE FROM EACH SUBCONTRACTOR IN ORDER TO ASSURE COMPLIANCE WITH THE INSURANCE REQUIREMENTS. CONTRACTOR MUST RETAIN THE CERTIFICATES OF INSURANCE FOR THE DURATION OF THE CONTRACT PLUS SEVEN (7) YEARS AND SHALL HAVE THE RESPONSIBILITY OF ENFORCING THESE INSURANCE REQUIREMENTS ITS SUBCONTRACTORS. OWNER SHALL BE ENTITLED, UPON REQUEST AND WITHOUT EXPENSE, TO RECEIVE COPIES OF THESE CERTIFICATES. CONSTRUCTION DOCUMENTS, COORDINATION DOCUMENTS, AND RECORD DOCUMENTS.

ARTICLE 9.

CONSTRUCTION DOCUMENTS, COORDINATION DOCUMENTS, AND RECORD DOCUMENTS

9.1 Drawings and Specifications.

9.1.1 Copies Furnished. Design Professional will furnish, free of charge, the number of complete sets of Drawings, Specifications, and addenda as provided in the Contract. Contractor will be furnished, free of charge, the number of complete sets of Drawings, Specifications, and addenda as provided in the Contract. Additional complete sets of Drawings and Specifications, if requested, will be furnished at reproduction cost to the one requesting such additional sets. Electronic copies of such documents will be provided to Contractor without charge.

9.1.2 Ownership of Drawings and Specifications. All Drawings, Specifications and copies thereof furnished by Design Professional shall be property of the Owner. These documents are not to be used by the Design Professional on any other project. Owner may use the Contract record set and electronic versions as needed for warranty operations or future renovations or additions without written approval of the Design Professional. All additional or confirmatory land survey field notes, sketches and related data, and additional or confirmatory soils engineering or investigations, samples, calculations, test results, and reports, for which Owner has paid for such direct services, shall be the sole property of Owner.

9.2 Interrelation of Documents. The Contract Documents as referenced in the Contract between Owner and Contractor are complimentary, and what is required by one shall be as binding as if required by all.

9.3 Resolution of Conflicts in Documents. Where conflicts may exist within the Contract Documents, the documents shall govern in the following order: (a) Change Orders or other written, signed amendments or addenda; (b) the Contract; (c) Uniform General Conditions; (d) Drawings; (e) Specifications (but Specifications shall control over Drawings as to quality of materials); and (f) other Contract Documents. Among other categories of documents having the same order of precedence, the term or provision that includes the latest date shall control. Contractor shall notify Design Professional and Owner for resolution of the issue prior to executing the Work in question.

- 9.4 Contractor's Duty to Review Contract Documents. In order to facilitate Contractor's responsibilities for completion of the Work in accordance with and as reasonably inferable from the Contract Documents, Contractor shall, prior to commencing the Work, examine and compare the Contract Documents, information furnished by Owner, relevant field measurements made by Contractor, and any visible or reasonably anticipated conditions at the Site affecting the Work. This duty extends throughout the design phase and construction phase prior to commencing each particular work activity and/or system installation. Updated Coordination Documents shall be provided to the Owner and Design Professional monthly.
- 9.5 Discrepancies and Omissions in Drawings and Specifications. Contractor shall immediately report to OCM and to Design Professional the discovery of any discrepancy, error, omission, or inconsistency in the Contract Documents prior to execution of the Work. When performing as a Construction Manager-at-Risk, Contractor has a shared responsibility with Design Professional for discovery and resolution of discrepancies, errors, omissions, and inconsistencies in the Contract Documents. In such case, Contractor's responsibility pertains to review, coordination, and recommendation of resolution strategies within budget constraints.
- 9.5.1 Design-Build Firm. It is recognized that Contractor is not acting in the capacity of a licensed design professional, unless it is performing as a Design-Build firm. When performing as a Design-Build firm, Contractor has sole responsibility for discrepancies, errors, and omissions in the Drawings and Specifications.
- 9.5.2 Construction Manager-at-Risk Examination and Reporting. When performing as a Construction Manager-at-Risk, Contractor has no liability for discrepancies, errors, omissions, or inconsistencies unless Contractor fails to immediately report in writing a discovered or apparent discrepancy, error, omission, or inconsistency to OCM and Design Professional. Should Contractor fail to perform the examination and reporting obligations of these provisions, Contractor is responsible for avoidable costs and direct and/or consequential damages.
- 9.5.3 Other Limitations. Unless Contractor is performing as a Design-Build Firm or a Construction Manager-at-Risk, Contractor's examination of Contract Documents is to facilitate construction and does not create an affirmative responsibility to detect discrepancies, errors, omissions, or inconsistencies or to ascertain compliance with applicable laws, building codes, or regulations.
- 9.6 No Warranty or Representation by Owner. Owner makes no representations, express or implied, about the adequacy or accuracy of the Drawings, Specifications, or other Construction Documents provided or their suitability for their intended use. Owner expressly disclaims any implied warranty that the Construction Documents are adequate, accurate, or suitable for their intended use.
- 9.7 Requirements for Record Documents.
- 9.7.1 Contractor shall:

- 9.7.1.1 Maintain at the Site one copy of all Drawings, Specifications, addenda, approved submittals, Contract modifications, Change Orders, and all Project correspondence and one record copy of approved Shop Drawings, Samples, and similar required submittals.
 - 9.7.1.2 Keep current and maintain Drawings and Specifications in good order with postings and markings to record actual conditions of Work, and show and reference all changes made during construction. Provide Owner and Design Professional access to these documents.
 - 9.7.1.3 Keep current and maintain the record set of Drawings and Specifications which reflect the actual field conditions and representations of the Work performed, whether it be directed by addendum, Change Order, or otherwise. Make available all records prescribed herein for reference and examination by Owner and Design Professional, and their representatives and agents.
 - 9.7.1.4 Be responsible for marking the Record Documents for all Contractor initiated documents and changes to the Contract Documents due to coordination and actual field conditions, including RFIs. During construction, update the Record Documents, including all related RFI's, ASI's CCD's, and CO's, at least monthly prior to submission of periodic partial pay estimates. Failure to maintain current Record Documents constitutes cause for denial of a progress payment otherwise due.
 - 9.7.1.5 Within thirty (30) days of Substantial Completion, Contractor shall furnish the Design Professional a copy of its marked-up Record Documents and a preliminary copy of each instructional manual, maintenance and operating manual, parts catalog, wiring diagrams, spare parts, specified written warranties and like publications, or parts for all installed equipment, systems, and like items, and as described in the Contract Documents. A complete set must be provided to the Design Professional within seven (7) days of Final Completion.
- 9.7.2 Design Professional shall:
- 9.7.2.1 In coordination with Contractor, shall update Record Documents to accurately depict progress of the Work and "as-built" condition of the Project.
 - 9.7.2.2 Be responsible for updating the Record Documents for any addenda, Change Orders, Design Professional supplemental instructions, and any other alterations to the Contract Documents generated by Design Professional or Owner. Design Professional shall provide Owner with an electronic copy of the Auto-CADD files, BIM files, and Record Documents in both native format and a reproducible format within thirty (30) days following Final Completion.

- 9.7.2.3 Upon final completion and as a condition of final payment, once Record Documents are determined acceptable by OCM and with input from the Contractor, provide one (1) reproducible copy and one (1) electronic media copy of all Record Documents incorporating all of the above requirements, unless required otherwise.

ARTICLE 10.
CONSTRUCTION SAFETY

- 10.1 General. It is the duty and responsibility of Contractor and all of its Subcontractors to be familiar with, enforce, and comply with all requirements of Public Law No. 91-596, 29 U.S.C. § 651 et. seq., the Occupational Safety and Health Act of 1970, (OSHA) and all amendments thereto. Contractor shall prepare a site-specific safety plan specific to the Project and submit it to OCM and Design Professional prior to commencing Work. In addition, Contractor and all of its Subcontractors shall comply with all applicable laws and regulations of any public body having jurisdiction for safety of persons or property to protect them from damage, injury, or loss and erect and maintain all necessary safeguards for such safety and protection.
- 10.1.1 Site Visits. The OCM/ODR may perform random visits to Project Sites to address adherence to the site-specific safety plans and any Contractor safety requirements. Any violations that are discovered will be reported to Contractor for prompt remediation and correction. Poor performance in regards to safety, as determined by the OCM/ODR, is grounds for contract termination and/or immediate removal. The OCM/ODR may also require meetings with contractors regarding safety on the Project. The OCM/ODR may request to review safety policies of Contractor, Contractor's safety inspection forms, and the most current site-specific safety plan, as required.
- 10.2 Notices. Contractor shall provide notices as follows:
- 10.2.1 Utilities and Adjacent Properties. Notify owners of adjacent property, including those that own or operate utilities, utility services, and/or underground facilities, when prosecution of the Work may affect them or their facilities, and cooperate with them in the protection, removal, relocation and replacement, and access to their facilities and/or utilities.
- 10.2.2 Safety Data Sheets. Coordinate the exchange of safety data sheets (SDSs) or other hazard communication information required to be made available to or exchanged between or among employers at the site in connection with laws and regulations. Maintain a complete file of SDSs for all materials in use on site throughout the construction phase and make such file available to Owner and its agents as requested.
- 10.3 Emergencies. In any emergency affecting the safety of persons or property, Contractor shall act to minimize, mitigate, and prevent threatened damage, injury, or loss. Contractor shall:
- 10.3.1 On Call Response. Have authorized agents of Contractor respond immediately upon call at any time of day or night when circumstances warrant the presence of Contractor to

protect the Work or adjacent property from damage or to take such action pertaining to the Work as may be necessary to provide for the safety of the public.

10.3.2 Notice.

10.3.2.1 To OCM and Design Professional: Give OCM and Design Professional prompt notice of all such events.

10.3.2.2 Changes or Variations to Work: If Contractor believes that any changes in the Work or variations from Contract Documents have been caused by its emergency response, promptly notify Owner within twenty-four (24) hours of the emergency response event.

10.3.3 Owner Remedy. Should Contractor fail to respond, Owner is authorized to direct other forces to take action as necessary and Owner may deduct any cost of remedial action from funds otherwise due Contractor.

10.4 Injuries. In the event of an incident or accident involving outside medical care for an individual on or near the Work, Contractor shall notify OCM and other parties as may be directed promptly, but no later than twenty-four (24) hours after Contractor learns that an event required medical care. Contractor shall:

10.4.1 Documentation. Record the location of the event and the circumstances surrounding it, by using photography or other means, and gather witness statements and other documentation which describes the event.

10.4.2 Incident Report. Supply OCM and Design Professional with an incident report no later than thirty-six (36) hours after the occurrence of the event. In the event of a catastrophic incident (one (1) fatality or three (3) workers hospitalized), barricade and leave intact the scene of the incident until all investigations are complete. A full set of incident investigation documents, including facts, finding of cause, and remedial plans shall be provided within one (1) week after occurrence, unless otherwise directed by legal counsel. Contractor shall provide OCM with written notification within one (1) week of such catastrophic event if legal counsel delays submission of full report.

10.5 Environmental Safety. Upon encountering any previously unknown potentially hazardous material, or other materials potentially contaminated by hazardous material, Contractor shall immediately stop work activities impacted by the discovery, secure the affected area, and notify OCM immediately.

10.5.1 Subcontractors. Contractor shall bind all Subcontractors to the same duty.

10.5.2 Owner. Upon receiving such notice, OCM will promptly engage qualified experts to make such investigations and conduct such tests as may be reasonably necessary to determine the existence or extent of any environmental hazard. Upon completion of this investigation, OCM will issue a written report to Contractor identifying the material(s)

found and indicate any necessary steps to be taken to treat, handle, transport or dispose of the material.

10.5.2.1 Owner may hire third-party Contractors to perform any or all such steps.

10.5.2.2 Should compliance with OCM's instructions result in an increase in Contractor's cost of performance or delay the Work, upon Contractor's submission of substantiated costs or an updated Work Progress Schedule and substantiated critical path analysis, Owner will make an equitable adjustment to the Contract Sum and/or the time of completion, and issue a Change Order accordingly.

10.6 Trenching Plan. When the project requires excavation which either exceeds a depth of four (4) feet, or results in any worker's upper body being positioned below grade level, Contractor is required to submit a trenching plan to OCM prior to commencing trenching operations unless an engineered plan is part of the Contract Documents. The plan is required to be prepared and sealed by a professional engineer registered in the State of Texas and hired or employed by Contractor or Subcontractor to perform the work. Said engineer cannot be anyone who is otherwise either directly or indirectly engaged on this project.

10.6.1 OSHA Regulations: All trench excavations shall be performed in full compliance with OSHA Regulations. The regulation identified as 29 CFR Subpart P – Excavations, consisting of sections 1926.650 through 1926.652 with Appendices A through F, of the OSHA Health and Safety Regulations, as amended or modified, shall apply to Contractor's trench excavations. Contractor shall meet and comply with this regulation and all other applicable safety standards that have been adopted by government agencies that have jurisdiction over this Project. It is the Contractor's responsibility to comply with any additional requirements resulting from any pre-construction conference relating to coordination of geotechnical investigation subjects.

10.6.2 Texas State Law: Texas State Law (Underground Facility Damage Prevention and Safety Act: Tex. Util. Code, Chapter 251) requires Contractors submit all required notifications to the authorities having jurisdiction two working days prior to commencement of all excavation site work. It is the Contractor's responsibility to inform Texas Excavation Safety System (1-800-DIG-TESS or 811) about all planned excavations and provide adequate notice. Contractor is required to coordinate identification of underground facilities with the Design Professional and ODR, and site mark approximate locations prior to planned excavation.

10.6.3 Contractor Responsibility: It is the sole duty and responsibility of the Contractor to determine the specific applicability of the designed trench safety systems to each field condition and to make inspections of the trench safety systems. Contractor shall maintain a permanent record of inspections, readily available to the ODR at any time.

- 10.7 Crane Safety. Any and all construction associated activities with crane operations must be coordinated and reviewed with OCM/ODR prior to commencement of such activities. Prior to the operation of any crane on Site, a suitable location needs to be determined and consulted with the OCM/ODR. Such location must be included on the site-specific safety plan. Consideration should be made to the capacity and type of crane in safe relationship to the physical site location limitations, as well as any existing or future underground/overhead conditions and utilities. Contractor is required to coordinate identification of underground/overhead facilities with Design Professional and ODR and site mark approximate locations prior to initial planned setup and activities. Any critical lift plans must be reviewed by OCM/ODR prior to activity occurring. If possible, avoiding critical lifts is preferred. All crane operators must be certified by the National Commission for Certification of Crane Operators (NCCCO). All signal persons & riggers at a minimum need to be qualified in accordance with OSHA standard. Contractor should have certified riggers & signal persons working on campus and Owner reserves the right to request such certification depending on the scope of work being performed. Contractor shall develop a lift plan for any crane activities being performed. The lift plan must be submitted to OCM/ODR prior to any lifting or hoisting activities occurring, with any additional documentation, including but not limited to, equipment manuals, inspections, certifications and licenses to be provided to the owner upon request.
- 10.8 Unmanned Aircraft System (UAS) Usage. Any UAS operation on Owner's property must follow Federal Aviation Administration (FAA) regulations, state law, and Owner's policies and procedures. Any images or video obtained from a pre-authorized and compliant UAS flight on Owner's property must be approved for use by the Owner prior to usage of any such images or video obtained. Any violations will result in an ODR directed no-fly restriction for UAS operations on Owner's property.
- 10.9 Fire Protection Procedures. Contractor shall maintain compliance with all Life/Safety Code requirements throughout the duration of the Contract and take precautions to prevent potential fire hazards at the jobsite. Contractor shall adhere to the preventative fire protection procedures of the University of North Texas System Fire Marshal and instruct all associated subcontractors, skilled tradesmen, contractors, material men, suppliers and/or laborers of the procedures for preventative fire measures. Construction sites and structures are required to have proper site access and egress, active and certified extinguishing devices or systems at all times, and all fire and egress systems clearly marked and identified. Fire department access (fire lanes) shall be kept clear of vehicles, equipment and materials at all times. Occupied buildings which require any fire protection systems to be non-active, require two weeks advance notice and life safety protection method of procedures must be reviewed by University of North Texas System Fire Marshal, prior to system deactivation.
- 10.10 Smoke and Tobacco Free Campus. All campuses within the University of North Texas System are designated 'Smoke and Tobacco Free' environments. Due to State health, sanitation and safety regulations, tobacco products are not permitted to be consumed by construction personnel in any Owner's property, occupied or unoccupied, including mechanical and other service spaces. Contractor shall be responsible for enforcing this policy on the construction site, at all times.

ARTICLE 11.
QUALITY CONTROL

- 11.1 Materials & Workmanship. Contractor shall execute Work in a good and workmanlike matter in accordance with the Contract Documents. Contractor shall develop and provide a quality control plan specific to this Project and acceptable to Owner. Where Contract Documents do not specify quality standards, complete and construct all Work in compliance with generally accepted construction industry standards. Unless otherwise specified, incorporate all new materials and equipment into the Work under the Contract.
- 11.2 Testing.
- 11.2.1 Owner. Owner is responsible for coordinating and paying for routine and special tests required to confirm compliance with quality and performance requirements, except as stated below or otherwise required by the Contract Documents.
- 11.2.2 Contractor. Contractor shall provide the following testing:
- 11.2.2.1 Any test of basic material or fabricated equipment included as part of a submittal for a required item in order to establish compliance with the Contract Documents.
- 11.2.2.2 Any test of basic material or fabricated equipment offered as a substitute for a specified item on which a test may be required in order to establish compliance with the Contract Documents.
- 11.2.2.3 Preliminary, start-up, pre-functional, and operational testing of building equipment and systems as necessary to confirm operational compliance with requirements of the Contract Documents.
- 11.2.2.4 All subsequent tests on original or replaced materials conducted as a result of prior testing failure.
- 11.2.3 Standards. All testing shall be performed in accordance with standard test procedures by an accredited laboratory, or special consultant as appropriate, acceptable to Owner. Results of all tests shall be provided promptly to OCM, Design Professional, and Contractor.
- 11.2.4 Non-Compliance (Test Results). Should any of the tests indicate that a material and/or system does not comply with the Contract requirements, the burden of proof remains with Contractor, subject to:
- 11.2.4.1 Contractor selection and submission of the laboratory for Owner acceptance.
- 11.2.4.2 Acceptance by Owner of the quality and nature of tests.

- 11.2.4.3 All tests taken in the presence of Design Professional and/or OCM, or their representatives.
 - 11.2.4.4 If tests confirm that the material/systems comply with Contract Documents, Owner will pay the cost of the test.
 - 11.2.4.5 If tests reveal noncompliance, Contractor will pay those laboratory fees and costs of that particular test and all future tests, of that failing Work, necessary to eventually confirm compliance with Contract Documents.
 - 11.2.4.6 Proof of noncompliance with the Contract Documents will make Contractor liable for any corrective action which OCM determines appropriate, including complete removal and replacement of noncompliant work or material.
- 11.2.5 Notice of Testing. Contractor shall give OCM and Design Professional timely notice of its readiness and the date arranged so OCM and Design Professional may observe such inspection, testing, or approval.
- 11.2.6 Test Samples. Contractor is responsible for providing Samples of sufficient size for test purposes and for coordinating such tests with the Work Progress Schedule to avoid delay.
- 11.2.7 Covering Up Work. If Contractor covers up any Work without providing Owner an opportunity to inspect, Contractor shall, if requested by OCM, uncover and recover the work at Contractor's expense.

11.3 Submittals.

- 11.3.1 Contractor's Submittals. Contractor shall submit with reasonable promptness consistent with the Project schedule and in orderly sequence all Shop Drawings, Samples, or other information required by the Contract Documents, or subsequently required by Change Order. Prior to submitting, Contractor shall review each submittal for general compliance with Contract Documents and approve submittals for review by Design Professional and Owner by an approval stamp affixed to each copy. Submittal data presented without Contractor's stamp will be returned without review or comment, and any delay resulting from failure is Contractor's responsibility.
- 11.3.1.1 Contractor shall within twenty-one (21) days of the effective date of the Notice to Proceed with construction, submit to OCM and Design Professional, a submittal schedule/register, organized by specification section, listing all items to be furnished for review and approval by Design Professional and Owner. The list shall include Shop Drawings, manufacturer literature, certificates of compliance, materials Samples, materials colors, guarantees, and all other items identified throughout the Specifications.
 - 11.3.1.2 Contractor shall indicate the type of item, Contract requirements reference, and Contractor's scheduled dates for submitting the item along with the

requested dates for approval answers from Design Professional and Owner. The Submittal Register shall indicate the projected dates for procurement of all included items and shall be updated at least monthly with actual approval and procurement dates. Contractor's Submittal Register must be reasonable in terms of the review time for complex submittals. Contractor's submittal schedule must be consistent with the Work Progress Schedule and identify critical submittals. Show and allow a minimum of fifteen (15) days duration after receipt by Design Professional and OCM for review and approval. If re-submittal required, allow a minimum of an additional *seven (7)* days for review. Submit the updated Submittal Register with each request for progress payment. Owner may establish routine review procedures and schedules for submittals at the preconstruction conference and/or elsewhere in the Contract Documents. If Contractor fails to update and provide the Submittal Register as required, Owner may, after seven (7) days notice to Contractor withhold a reasonable sum of money that would otherwise be due Contractor.

11.3.1.3 Contractor shall coordinate the Submittal Register with the Work Progress Schedule. Do not schedule Work requiring a submittal to begin prior to scheduling review and approval of the related submittal. Revise and/or update both schedules monthly to ensure consistency and current project data. Provide to OCM the updated Submittal Register and schedule with each application for progress payment. Refer to requirements for the Work Progress Schedule for inclusion of procurement activities therein. Regardless, the Submittal Register shall identify dates submitted and returned and shall be used to confirm status and disposition of particular items submitted, including approval or other action taken and other information not conveniently tracked through the Work Progress Schedule.

11.3.1.4 By submitting Shop Drawings, Samples or other required information, Contractor represents that it has determined and verified all applicable field measurements, field construction criteria, materials, catalog numbers and similar data; and has checked and coordinated each Shop Drawing and Sample with the requirements of the Work and the Contract Documents.

11.3.2 Review of Submittals. Design Professional and OCM review is only for conformance with the design concept and the information provided in the Contract Documents. Responses to submittals will be in writing. The approval of a separate item does not indicate approval of an assembly in which the item functions. The approval of a submittal does not relieve Contractor of responsibility for any deviation from the requirements of the Contract unless Contractor informs Design Professional and OCM of such deviation in a clear, conspicuous, and written manner on the submittal transmittal and at the time of submission, and obtains Owner's written specific approval of the particular deviation.

11.3.3 Correction and Resubmission. Contractor shall make any corrections required to a submittal and resubmit the required number of corrected copies promptly so as to avoid

delay, until submittal approval. Direct attention in writing to Design Professional and OCM, when applicable, to any new revisions other than the corrections requested on previous submissions.

11.3.4 Limits on Shop Drawing Review. Contractor shall not commence any Work requiring a submittal until review of the submittal under Subsection 11.3.2. Contractor shall construct all such work in accordance with reviewed submittals. Comments incorporated as part of the review in Subsection 11.3.2 of Shop Drawings and Samples is not authorization to Contractor to perform extra work or changed work unless authorized through a Change Order. Design Professional's and OCM's review does not relieve Contractor from responsibility for defects in the Work resulting from errors or omissions of any kind on the submittal, regardless of any approval action.

11.3.5 No Substitutions without Approval. OCM and Design Professional may receive and consider Contractor's request for substitution when Contractor agrees to reimburse Owner for review costs and satisfies the requirements of this section. If Contractor does not satisfy these conditions, OCM and Design Professional will return the request without action except to record noncompliance with these requirements. Owner will not consider the request if Contractor cannot provide the product or method because of failure to pursue the Work promptly or coordinate activities properly. Contractor's request for a substitution may be considered by OCM and Design Professional when:

11.3.5.1 The Contract Documents do not require extensive revisions; and

11.3.5.2 Proposed changes are in keeping with the general intent of the Contract Documents and the design intent of Design Professional and do not result in an increase in cost to Owner; and

11.3.5.3 The request is timely, fully documented, properly submitted and one or more of the following apply:

- Contractor cannot provide the specified product, assembly or method of construction within the Contract Time;
- The request directly relates to an "or-equal" clause or similar language in the Contract Documents;
- The request directly relates to a "product design standard" or "performance standard" clause in the Contract Documents;
- The requested substitution offers Owner a substantial advantage in cost, time, energy conservation or other considerations, after deducting additional responsibilities Owner must assume;
- The specified product or method of construction cannot receive necessary approval by an authority having jurisdiction, and OCM can approve the requested substitution;
- Contractor cannot provide the specified product, assembly or method of construction in a manner that is compatible with other materials and

where Contractor certifies that the substitution will overcome the incompatibility;

- Contractor cannot coordinate the specified product, assembly or method of construction with other materials and where Contractor certifies they can coordinate the proposed substitution; or
- The specified product, assembly or method of construction cannot provide a warranty required by the Contract Documents and where Contractor certifies that the proposed substitution provides the required warranty.
- The manufacture of the specified product has been removed from production due to cancellation or obsolescence.

11.3.6 Unauthorized Substitutions at Contractor's Risk. Contractor is financially responsible for any additional costs or delays resulting from unauthorized substitution of materials, equipment or fixtures other than those specified. Contractor shall reimburse Owner for any increased design or contract administration costs resulting from such unauthorized substitutions.

11.4 Field Mock-up. Mock-ups shall be constructed prior to commencement of a specified scope of work to confirm acceptable workmanship.

11.4.1 Minimum. As a minimum, field mock-ups shall be constructed for roofing systems, exterior veneer / finish systems, glazing systems, and any other Work requiring a mock-up as identified throughout the Contract Documents. Mock-ups for systems not part of the Project scope shall not be required.

11.4.2 No Incorporation Unless Approved. Mock-ups may be incorporated into the Work if allowed by the Contract Documents and if acceptable to OCM. If mock-ups are freestanding, they shall remain in place until otherwise directed by Owner.

11.4.3 Schedule. Contractor shall include field mock-ups in their Work Progress Schedule and shall notify OCM and Design Professional of readiness for review sufficiently in advance to coordinate review without delay.

11.5 Inspection During Construction. Contractor shall provide sufficient, safe, and proper facilities, including equipment as necessary for safe access, at all reasonable times for observation and/or inspection of the Work by Owner or Design Professional and their agents. Contractor shall not cover up any Work with finishing materials or other building components prior to providing Owner and Design Professional and their agents an opportunity to perform an inspection of the Work.

11.5.1 Corrected Work. Should corrections of the Work be required for approval, Contractor shall not cover up corrected Work until Owner indicates approval.

11.5.2 Owner's Self Help. Should Contractor be unable to perform corrective work without impacting the overall WPS, Owner reserves the right to hire a separate Contractor to

complete the correction. The cost of the correction performed by separate Contractor will be charged back to Contractor.

- 11.5.3 Notice. Contractor shall provide notification of at least five (5) working days or otherwise as mutually agreed, to OCM of the anticipated need for an inspection so that Contractor may proceed with cover-up of Work. Should OCM fail to make the necessary inspection within the agreed period, Contractor may proceed with cover-up Work, but is not relieved of responsibility for Work to comply with requirements of the Contract Documents.

ARTICLE 12.

CONSTRUCTION SCHEDULES

- 12.1 Contract Time. **TIME IS AN ESSENTIAL ELEMENT OF THE CONTRACT.** The Contract Time is the time between the dates indicated in the Notice to Proceed for commencement of the Work and for achieving Substantial Completion. The Contract Time can be modified only by Change Order. Failure to achieve Substantial Completion within the Contract Time will cause damage to Owner and may subject Contractor to liquidated damages as provided in the Contract Documents. If Contractor fails to achieve Final Completion within thirty (30) days after Substantial Completion, Contractor shall be responsible for Owner's additional inspection, project management, and maintenance cost to the extent caused by Contractor's failure to achieve Final Completion.
- 12.2 Notice to Proceed. Owner will issue a Notice to Proceed which shall state the dates for commencing Work and for achieving Substantial Completion of the Work.
- 12.3 Work Progress Schedule. Refer to Division 1 of the Specifications for additional schedule requirements. Contractor shall submit for review and approval a Construction Baseline Schedule to Owner and Design Professional no later than twenty-one (21) days after the effective date of the Notice to Proceed with construction. The Construction Baseline Schedule shall indicate the dates for starting and completing the various aspects required to complete the work and shall utilize the Longest Path Method with fully editable logic. The schedule shall include mobilization, procurement, installation, testing, inspection, delivery of Close-out Documents, and acceptance of all Work. This Baseline Schedule shall become the comparison to the actual conditions throughout the Contract duration and become a part of the Work Progress Schedule (WPS). Contractor shall coordinate and integrate the Work Progress Schedule with the services and activities of Owner, Contractor, Design Professional, other consultants/suppliers, subcontractors and the requirements of governmental entities.

This section applies to construction phase Work Progress Schedules. Requirements for design phase scheduling for Construction Manager-at-Risk and Design Build contracts are outlined in the specific agreements.

- 12.3.1 Work Progress Schedule Updates.

- 12.3.1.1 Contractor shall update the Work Progress Schedule and the Submittal Register weekly during the Owner/Architect/Contractor (OAC) meetings, at a minimum, to reflect progress to date and current plans for completing the Work, while maintaining the Baseline Schedule, and shall submit electronic and paper copies of the update to Design Professional and OCM as directed but at a minimum with each request for payment. Owner has no duty to make progress payments unless accompanied by the updated Work Progress Schedule.
- 12.3.1.2 Contractor should revise the Work Progress Schedule as necessary or appropriate for the management of the Work. All updated Work Progress Schedules must show the anticipated date of completion and reflect all extensions of time granted through Change Order as of the date of the update.
- 12.3.1.3 Contractor shall identify all proposed changes to schedule logic to Owner and to Design Professional via an executive summary accompanying the updated Work Progress Schedule for review and approval prior to implementation of any revisions to the Work Progress Schedule. Schedule changes that materially impact Owner's operations shall be communicated within forty-eight (48) hours to OCM.
- 12.3.1.4 The Work Progress Schedule constitutes Contractor's representation to Owner of the accurate depiction of all progress to date and that Contractor will follow the schedule as submitted in performing the Work.
- 12.3.2 Use of Work Progress Schedules. The Work Progress Schedule is for Contractor's use in managing the Work and submittal of the Work Progress Schedule, and successive updates or revisions, is for the information of Owner and to demonstrate that Contractor has complied with requirements for planning and completing the Work.
- 12.3.2.1 Owner will coordinate its own activities with Contractor's activities as shown on the Work Progress Schedule.
- 12.3.2.2 Owner's review of the Work Progress Schedule, or update or revision, does not indicate any approval of Contractor's proposed sequences and duration.
- 12.3.2.3 Owner's review of a Work Progress Schedule update or revision indicating early or late completion does not constitute Owner's consent, alter the terms of the Contract, or waive either Contractor's responsibility for timely completion or Owner's right to damages for Contractor's failure to so do.
- 12.3.2.4 Contractor's scheduled dates for completion of any activity or the entire Work do not constitute a change in terms of the Contract. Change Orders are the only method of modifying the Substantial Completion Date(s) and Contract Time.

- 12.4 Ownership of Float. Unless indicated otherwise in the Contract Documents, Contractor shall develop its schedule, pricing, and execution plan to provide a minimum of ten percent (10%) total Float at acceptance of the Baseline Schedule. Float time contained in the Work Progress Schedule is not for the exclusive benefit of Contractor or Owner, but belongs to the Project and may be consumed by either party. Before Contractor uses any portion of the Float, Contractor must submit a written request to Owner and receive Owner's written authorization to use the portion of Float. Owner's approval will not unreasonably be withheld.
- 12.5 Completion of Work. Contractor is responsible and accountable for completing the Work within the Contract Time stated in the Contract, or as otherwise amended by Change Order.
- 12.5.1 Owner's Self Help. Should Contractor be unable to complete portion of Work, Owner may hire separate Contractor to complete these items. The cost to complete this Work will be charged back to Contractor.
- 12.5.2 Requirement to Regain Schedule. If, in the judgment of Owner, the Work is behind schedule and the rate of placement of Work is inadequate to regain scheduled progress to insure timely completion of the entire Work or a separable portion thereof, Contractor, when so informed by Owner, shall immediately take action to increase the rate of Work placement by:
- 12.5.2.1 An increase in working forces.
- 12.5.2.2 An increase in equipment or tools.
- 12.5.2.3 An increase in hours of work or number of shifts.
- 12.5.2.4 Expedited delivery of materials.
- 12.5.2.5 Other action proposed if acceptable to Owner.
- 12.5.3 Recovery Schedule. Within ten (10) days after such notice, Contractor shall notify OCM in writing of the specific measures taken and/or plan to increase the rate of progress. Contractor shall include an estimate as to the date of scheduled progress recovery and an updated Work Progress Schedule illustrating Contractor's plan for achieving timely completion of the Work. Should Owner deem the plan of action inadequate, Contractor shall take additional steps or make adjustments as necessary to its plan of action until it meets with Owner's approval.
- 12.5.4 Owner's Notice Not Acceleration. Owner's notice to Contractor shall not be considered acceleration by Owner and Owner shall not be responsible for any increased costs incurred by Contractor.
- 12.6 Modification of the Contract Time. Delays and extensions of Contract Time are valid only if properly noticed and documented by Change Order.

- 12.6.1 Extension Request. When a delay is an Excusable Delay, as defined below, and such delay prevents Contractor from completing the Work within the Contract Time, Contractor may be granted an extension of Contract Time. Owner will extend Contract Time by the number of days lost due to Excusable Delay, as measured by a substantiated critical path analysis of the Work Progress Schedule; provided, however, in no event will an extension of Contract Time be granted for delays that merely extend the duration of non-critical activities, or concurrent delay or which only consume Float. All extensions of Contract Time will be granted in calendar days.
- 12.6.2 Weather Days. “Weather Days” means days contained in the Baseline Schedule that are reasonably foreseeable adverse weather conditions and will not constitute an Excusable Delay. “Seasonably foreseeable adverse weather conditions” means weather conditions in keeping with the historical average listed by the National Oceanic and Atmospheric Administration on its website, www.noaa. When a Weather Day prevents critical path activities at the site from proceeding, Contractor shall: (a) immediately notify OCM for confirmation of the conditions and provide a detailed list of critical path activities impacted; and (b) at the end of each calendar month, submit to OCM and Design Professional a list of Weather Days occurring in that month along with documentation of the impact on critical path activities. Based on substantiated critical path analysis to the Work Progress Schedule, Owner will issue a Weather Day confirmation for any Contract Time extension to be documented by Change Order.
- 12.6.3 Excusable Delay. An “Excusable Delay” is a delay to Contractor’s current schedule caused by circumstances listed below that prevents Contractor from completing the Work within the Contract Time. Based on substantiated critical path analysis to the Work Progress Schedule, any Contract Time extension will be issued by Change Order. Excusable Delay may be caused by the following:
- 12.6.3.1 Discrepancies, errors, omissions, and inconsistencies in design, which Design Professional corrects by means of changes in the Drawings and Specifications; provided, however, that this does not apply if (a) Contractor is a Design-Build Firm, or (b) Contractor is a Construction Manager-at-Risk and failed to promptly report a discovered or apparent discrepancy, error, omission, or inconsistency during the pre-construction phase.
 - 12.6.3.2 Unanticipated physical conditions at the Site, which Design Professional corrects by means of changes to the Drawings and Specifications or for which ODR directs changes in the Work identified in the Contract Documents.
 - 12.6.3.3 Changes in the Work that delay activities identified in Contractor’s Work Progress Schedule as “critical” to completion of the entire Work, if such changes are directed by ODR or recommended by Design Professional and directed by ODR.

- 12.6.3.4 Suspension of Work for unexpected natural events, civil unrest, strikes or other events which are not within the reasonable control of Contractor.
- 12.6.3.5 Suspension of Work for convenience of Owner, which prevents Contractor from completing the Work within the Contract Time.
- 12.7 No Damages for Weather Days. An extension of Contract Time shall be the sole remedy of Contractor for delays in performance of the Work due to Weather Days, and Contractor shall not be entitled to any compensation or recovery of any direct or indirect costs or damages.
- 12.8 Costs for Excusable Delay. In the event that Contractor incurs additional direct costs because of an Excusable Delay (other than described in Subsection 12.6.3.4) within the reasonable control of Owner, in addition to an extension of Contract Time the Contract Sum will be equitably adjusted by Owner pursuant to the provisions of Article 14.
- 12.9 No Damages for Other Delay. Except for direct costs for Excusable Delay as provided above, Contractor has no claim for monetary damages for delay or hindrances to the Work from any cause, whether or not such delays are foreseeable, except for delays caused solely by acts of Owner that constitute intentional interference with Contractor's performance of the Work and then only to the extent such acts continue after Contractor notifies Owner in writing of such interference. For delays caused by any act other than the sole intentional interference of Owner that continues after notice, Contractor shall not be entitled to any compensation or recovery of any damages including, without limitation, direct and indirect costs, consequential damages, lost opportunity costs, impact damages, loss of productivity, or other similar damages. Owner's exercise of any of its rights or remedies under the Contract including, without limitation, ordering changes in the Work or directing suspension, rescheduling, or correction of the Work, shall not be construed as intentional interference with Contractor's performance of the Work regardless of the extent or frequency of Owner's exercise of such rights or remedies.
- 12.10 Concurrent Delay. Notwithstanding anything herein to the contrary, when the completion of the Work is simultaneously delayed by a Weather Day or an Excusable Delay and a delay arising from a cause not designated as excusable, Contractor will not be entitled to an extension of Contract Time for the period of concurrent delay.
- 12.11 Time Extension Requests for Changes to the Work or Excusable Delay. Extensions to Contract Time requested in association with changes to the Work directed or requested by Owner shall be included with Contractor's proposed costs for such change. If Contractor believes that the completion of the Work is delayed by Excusable Delay, Contractor shall give OCM written notice, stating the nature of the delay and the activities potentially affected, within five (5) days after the onset of the event or circumstance giving rise to the Excusable Delay. Contractor shall provide sufficient written evidence to document the Excusable Delay. In the case of a continuing cause of delay, only one claim is necessary. Claims for extensions of time should be made in numbers of whole or half days.

12.11.1 Content of Request. Within ten (10) days after the cessation of the Excusable Delay, Contractor shall formalize in writing its request for extension of Contract Time to include substantiation of the excusable nature of the delay and a complete analysis of impact to critical path activities. Based on substantiated critical path analysis to the Work Progress Schedule, any Contract Time extension granted will be issued by Change Order.

12.11.2 No Release. No extension of time releases Contractor or the Surety furnishing a performance or payment bond from any obligations under the Contract or such a bond. Those obligations remain in full force until the discharge of the Contract.

12.11.3 Longest Path Analysis. Contractor shall provide with each time extension request a quantitative demonstration of the impact of the delay on completion of the Work and Contract Time, based on the Work Progress Schedule. Contractor shall include with time extension requests a reasonably detailed narrative setting forth:

12.11.3.1 The nature of the delay and its cause due to a change in the Work or an Excusable Delay and the basis of Contractor's claim of entitlement to an extension of Contract Time.

12.11.3.2 Documentation of the actual impacts of the claimed delay on the Longest Path in Contractor's Work Progress Schedule, and any concurrent delays.

12.11.3.3 Description and documentation of steps taken by Contractor to mitigate the effect of the claimed delay, including, when appropriate, the modification of the Work Progress Schedule.

12.11.4 Owner Response. Owner will respond to the time extension request by providing to Contractor written notice of the number of days granted, if any, and giving its reason if this number differs from the number of days requested by Contractor.

12.11.4.1 Owner will not grant time extensions for delays that do not affect the Contract Substantial Completion date.

12.11.4.2 Owner will respond to each properly submitted Time Extension Request within a reasonable time following receipt. If Owner does not have enough information to make a determination or cannot reasonably make a determination within forty-five (45) days, Owner will notify Contractor in writing.

12.12 Failure to Complete Work in the Contract Time. **TIME IS AN ESSENTIAL ELEMENT OF THE CONTRACT.** Contractor's failure to achieve substantial completion by the Contract Time or to achieve Substantial Completion as required will cause damage to Owner. These damages shall be liquidated by agreement of Contractor and Owner, in the amount per day as set forth in Section 12.13 below or elsewhere in the Contract Documents.

12.13 Liquidated Damages. Unless otherwise stated in the Contract, for each consecutive calendar day beyond the Contract Time that Substantial Completion of the Work is not achieved, Contractor shall pay Owner, within ten (10) days following written demand, an amount determined by the following schedule:

<u>Project Cost</u>		<u>Liquidated Damages</u>
<u>From</u>	<u>To</u>	<u>Per Day</u>
	< \$ 1,000,000	\$ 250
\$ 1,000,000	< \$ 25,000,000	\$ 1,000
\$ 25,000,000	< \$ 50,000,000	\$ 2,500
\$ 50,000,000	< \$ 75,000,000	\$ 5,000
\$ 75,000,000	< \$ 100,000,000	\$ 7,500
> \$ 100,000,000		\$ 10,000

12.13.1 Reasonable Estimate. Such amount is not a penalty but liquidated damages representing the parties' estimate at the time of Contract execution of the damages that Owner will sustain for late Substantial Completion of Work. The parties stipulate and agree that the actual damages sustained by Owner for late Substantial Completion of the Work will be uncertain and difficult to ascertain, that calculating Owner's actual damages would be impractical, unduly burdensome, and cause unnecessary delay, and that the amount of daily liquidated damages set forth above is a reasonable estimate.

12.13.2 Offset. Owner may also recover the liquidated damages from any money due or that becomes due Contractor. The amount of liquidated damages may be adjusted by the terms of the Contract.

12.13.3 No Waiver. Payment or offset of the liquidated damages does not preclude recovery under the Contract, except for claims related to delays in Substantial Completion or Final Completion. Owner's right to receive liquidated damages shall not affect Owner's right to terminate the Contract as provided in these Uniform General Conditions or elsewhere in the Contract Documents, nor shall termination of the Contract release Contractor from the obligation to pay liquidated damages.

ARTICLE 13. **PAYMENTS**

13.1 Job Order Contracts. Contractor shall submit to OCM pricing based on the **regional** RS Means or Gordian Group pricing. The Job Order may be a fixed price, lump-sum contract based on unit pricing applied to estimated quantities or unit price order based on the quantities and line items delivered and the coefficient applied to the work items.

13.2 Schedule of Values (utilized in Construction-Manager-at-Risk and General Construction Agreement). Contractor shall submit to OCM and Design Professional for acceptance a Schedule of Values accurately itemizing material and labor for the various classifications of the Work based on the organization of the specification sections and of sufficient detail acceptable to OCM. The accepted Schedule of Values will be the basis for the progress payments under the Contract.

13.2.1 Requirements.

13.2.1.1 No progress payments will be made prior to receipt and acceptance of the Schedule of Values, provided in such detail as required by OCM, and submitted not less than twenty-one (21) days after the effective date of the Notice to Proceed. The Schedule of Values shall follow the order of trade divisions of the Specifications and include itemized costs for General Conditions, costs for preparing Close-Out Documents, fees, contingencies, and Owner cash allowances, if applicable, so that the sum of the items will equal the Contract Sum. As appropriate, assign each item labor and/or material values, the subtotal thereof equaling the value of the Work in place when complete.

13.2.1.2 Owner requires that the Work items be inclusive of the cost of the Work items only. Any contract markups for overhead and profit, General Conditions, etc., shall be contained within separate line items for those specific purposes which shall be divided into at least two (2) lines, one (1) for labor and one (1) for materials.

13.2.1.3 Contractor shall retain a copy of all worksheets used in preparation of its bid or proposal, supported by a notarized statement that the worksheets are true and complete copies of the documents used to prepare the bid or proposal, and shall make the worksheets available to Owner at the time of Contract execution. Thereafter, Contractor shall grant Owner during normal business hours access to said copy of worksheets at any time during the period commencing upon execution of the Contract and ending one (1) year after final payment.

13.3 Progress Payments. Contractor will receive periodic progress payments for Work performed, materials in place, suitably stored on Site, or as otherwise agreed to by Owner and Contractor. Payment is not due until receipt by Owner or its designee of a correct and complete Pay Application in electronic and/or hard copy format as required by the Contract Documents, and certified by Design Professional. Progress payments are made provisionally and do not constitute acceptance of Work not in accordance with the Contract Documents. Owner will not process progress payment applications for Change Order Work until all parties execute the Change Order.

13.3.1 Preliminary Pay Worksheet. Once each month that a progress payment is to be requested, the Contractor shall submit to Design Professional and OCM a complete, clean copy of a preliminary pay worksheet or preliminary pay application, to include the following:

13.3.1.1 Contractor's estimate of the amount of Work performed, labor furnished, and materials incorporated into the Work, using the established Schedule of Values;

13.3.1.2 An updated Work Progress Schedule reflecting progress of Work, including the executive summary and all required schedule reports. The progress of Work shall be the same progress as payment request;

13.3.1.3 HUB subcontracting plan Progress Assessment Report (PAR); The PAR should document compliance with the HUB Plan.

13.3.1.4 Reimbursable Expenses: Reimbursable expenses incurred solely and directly in support of the Project within one of the following categories:

- Travel expenditures at State of Texas reimbursement rates, provided that reimbursement will not be granted for travel 1) within the Denton-Dallas-Fort Worth area or 2) involving less than 150 miles round-trip; or
- Reproductions, printing, printing supplies, plotting, photographs, renderings, postage, binding, collating, delivery and handling of reports; Drawings and Specifications or other project-related work product other than that used solely in-house by Contractor at actual expense incurred; or
- Fees and associated reimbursable expenses paid to consultants hired in accordance with prior written approval from Owner.
- Expenses excluded from reimbursement include telephone charges, FAX services, alcoholic beverages, laundry service, valet service, entertainment expenses and any non-Project related items.
- Reimbursement of tips shall not exceed fifteen percent (15%).

13.3.1.5 Such additional documentation as Owner may require in the Contract Documents; and

13.3.1.6 Construction payment affidavit.

13.3.2 Contractor's Application for Payment. As soon as practicable, but in no event later than seven (7) days after receipt of the preliminary pay worksheet, Design Professional and OCM will meet with Contractor to review the preliminary pay worksheet and to observe the condition of the Work. Based on this review, OCM and Design Professional may require modifications to the preliminary pay worksheet prior to the submittal of an Application for Payment, and will promptly notify Contractor of revisions necessary for approval. As soon as practicable, Contractor shall submit its Application for Payment on the appropriate and completed form, reflecting the required modifications to the Schedule of Values required by Design Professional and/or OCM, and must attach all additional

documentation required by OCM and/or Design Professional, as well as an affidavit affirming that all payrolls, bills for labor, materials, equipment, subcontracted work, and other indebtedness connected with Contractor's Application for Payment are paid or will be paid within the time specified in Tex. Gov't Code, Chapter 2251. No Application for Payment is complete unless it fully reflects all required modifications, and attaches all required documentation including Contractor's affidavit.

13.3.3 Certification by Design Professional. Within five (5) days or earlier following Design Professional's receipt of Contractor's formal Application for Payment, Design Professional will review the Application for Payment for completeness, and forward it to OCM. Design Professional will certify that the application is complete and payable, or that it is incomplete, stating in particular what is missing. If the Application for Payment is incomplete, Contractor shall make the required corrections and resubmit the Application for Payment for processing.

13.4 Owner's Duty to Pay. Owner has no duty to pay the Contractor except on receipt by OCM of: (a) a complete Application for Payment certified by Design Professional; and (b) Contractor's updated Work Progress Schedule.

13.4.1 Stored Materials. Payment for stored materials and/or equipment confirmed by Owner and Design Professional to be on-site or otherwise properly stored is limited to eighty-five percent (85%) of the invoice price or eighty-five percent (85%) of the scheduled value for the materials or equipment, whichever is less.

13.4.2 Retainage. Owner will withhold from each progress payment, as retainage, whichever is more of the following three options: (a) five percent (5%) of the total earned amount; (b) the amount authorized by law; or (c) as otherwise set forth in the Contract Documents. Retainage will be managed in conformance with Tex. Gov't Code, Chapter 2252, Subchapter B.

13.4.2.1 Contractor shall provide written consent of its surety and concurrence of Design Professional for any request for reduction or release of retainage.

13.4.2.2 At least sixty-five percent (65%) of the Contract, or such other discrete Work phase as set forth in Subsection 15.1.6 or Work package delineated in the Contract Documents, must be completed before Owner can consider a retainage reduction or release, and only if permissible by law.

13.4.2.3 Contractor shall not withhold retainage from its Subcontractors and suppliers in amounts that are any percentage greater than that withheld in its Contract with Owner under this subsection, unless otherwise acceptable to Owner.

13.4.3 Price Reduction to Cover Loss. Owner may reduce any Application for Payment, prior to payment to the extent necessary to protect Owner from loss on account of actions of Contractor including, but not limited to, the following:

- 13.4.3.1 Defective or incomplete Work not remedied;
- 13.4.3.2 Damage to Work of a separate Contractor;
- 13.4.3.3 Failure to maintain scheduled progress;
- 13.4.3.4 Reasonable evidence provided with Work Progress Schedule that the Work will not be completed within the Contract Time;
- 13.4.3.5 Persistent failure to carry out the Work in accordance with the Contract Documents;
- 13.4.3.6 Reasonable evidence that the Work cannot be completed for the unpaid portion of the Contract Sum;
- 13.4.3.7 Assessment of fines for violations of prevailing wage rate law; or
- 13.4.3.8 Failure to include the appropriate amount of retainage for that periodic progress payment.

13.4.4 Title.

- 13.4.4.1 Title to all material and Work covered by progress payments transfers to Owner upon payment.
- 13.4.4.2 Transfer of title to Owner does not: (a) relieve Contractor and its Subcontractors of the sole responsibility for the care and protection of materials and Work upon which payments have been made until final acceptance; (b) diminish the responsibility of Contractor and its Subcontractors to restore any damaged Work; or (c) waive the right of Owner to require the fulfillment of all the terms of the Contract.

13.4.5 Contracts with No Payment Bond. For a Contract in any amount less than \$25,000.00, payment will be made in one lump sum at the Final Completion of the Work, including Punch list items and change orders.

13.4.6 No Release. Progress payments to Contractor do not release Contractor or its surety from any obligations under the Contract.

13.4.7 Documentation.

- 13.4.7.1 Upon Owner's request, Contractor shall furnish manifest proof of the status of Subcontractor's accounts in a form acceptable to Owner.
- 13.4.7.2 Pay estimate certificates must be signed by a corporate officer or a representative duly authorized by Contractor.

13.4.7.3 Provide copies of bills of lading, invoices, delivery receipts, or other evidence of the location and value of such materials in requesting payment for materials. For purposes of Tex. Gov't Code § 2251.021(a)(2), the date the performance of service is complete is the date when ODR approves the Application for Payment.

13.5 Time for Payment by Contractor: Pursuant to Tex. Gov't Code § 2251.023, upon Contractor's receipt of payment from Owner, Contractor shall pay Subcontractor the appropriate share of the payment not later than the tenth (10th) day after the date the Contractor receives the payment. The appropriate share is overdue on the eleventh (11th) day after the date Contractor receives the payment.

ARTICLE 14. **CHANGES**

14.1 Change Orders. A Change Order issued after execution of the Contract is a written order to Contractor, signed by ODR, Contractor, and Design Professional, authorizing a change in the Work or an adjustment in the Contract Sum or the Contract Time. The Contract Sum and the Contract Time can only be changed by Change Order. A Change Order signed by Contractor indicates his agreement therewith, including the adjustment in the Contract Sum and/or the Contract Time. ODR may issue a written authorization for Contractor to proceed with Work of a Change Order in advance of final execution by all parties in accordance with the provisions herein or other Contract provisions.

Whenever Change Orders Requests to adjust the contract price become necessary, the Owner will have the right to select the method of pricing to be used by the Contractor among the following options: 1) lump sum Change Order; 2) unit price Change Order, or 3) cost plus fee Change Order.

14.1.1 Owner Ordered Changes. Owner, without invalidating the Contract and without approval of Contractor's Surety, may order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, and the Contract Sum and the Contract Time will be adjusted accordingly. All such changes in the Work shall be authorized by Change Order or Construction Change Directive, and shall be performed under the applicable conditions of the Contract Documents. If such changes cause an increase or decrease in Contractor's cost of, or time required for, performance of the Work, an adjustment to Contract Sum or Contract Time shall be made and authorized by a Change Order.

14.1.2 Corrections. It is recognized by the parties hereto and agreed by them that the Drawings and Specifications may not be complete or free from discrepancies, errors, omissions, or inconsistencies, or that they may require changes or additions in order for the Work to be completed to the satisfaction of Owner. Accordingly, it is the express intention of the parties, notwithstanding any other provisions in the Contract, that any discrepancies, errors, omissions, or inconsistencies in such Drawings and Specifications, or any changes in or additions to Drawings and Specifications or to the Work ordered by Owner and any

resulting delays in the Work or increases in Contractor's costs and expenses arising out of such discrepancies, errors, omissions, or inconsistencies shall not constitute or give rise to any claim, demand, or cause of action of any nature whatsoever in favor of Contractor, whether for breach of Contract, or otherwise. However, Contractor will be entitled to the time or sum stated to be due Contractor in any Change Order approved and signed by all parties, which shall constitute full compensation to Contractor for all costs, expenses, and damages to Contractor.

14.2 Lump Sum Change Order Request. Contractor will submit a properly itemized Lump Sum Change Order Request covering the additional work and/or the work to be deleted. This Request will be itemized for the various components of work and segregated by labor, material and equipment in a detailed format satisfactory to Owner. Owner will require itemized Change Orders on all Change Order Requests from Contractor, subcontractors and sub-subcontractors regardless of tier. Details to be submitted include detailed line item estimates showing detailed materials quantity take-offs, material prices by item, and related labor hour pricing information and extensions (by line item or by drawing as applicable).

14.2.1 Self-Performed Labor. Estimated labor costs to be included for self-performed work shall be based on the actual cost per hour paid by any Contractor (regardless of tier) for those workers or crews of workers who the Contractor reasonably anticipates will perform the Change Order work. Estimated labor hours shall include hours only for the worker and working foreman directly involved in performing the change order work. Supervision above the level of working foreman (such as general foreman, superintendent, project manager, etc.) is considered to be included in the markup percentages as outlined in the Contract. Note: No separate allowances for warranty or safety expenses will be allowed as a direct cost of a Change Order. Costs attributed to warranty expenses and safety expense will be considered to be covered by the markup percentage as outlined in the Contract.

14.2.2 Overhead and Profit. Overhead shall be considered to include insurance beyond the scope of Article 8, field and office supervisors and assistants, including safety and scheduling personnel, use of small tools, incidental job burdens, and general home office expenses. No separate allowance will be made.

14.2.3 Labor Burden. Labor burden allowable in Change Orders shall be defined as Contractor's net actual cost of payroll taxes (FICA, Medicare, SUTA, FUTA), net actual cost for Contractor's cost of union benefits (or other usual and customary fringe benefits if the employees are not union employees), and net actual cost to Contractor for worker's compensation insurance taking into consideration adjustments for experience modifiers, premium discounts, dividends, rebates, expense constants, assigned risk pool costs, net cost reductions due to policies with deductibles for self-insured losses, assigned risks rebates, etc. Contractor shall reduce their standard payroll tax percentages to properly reflect the effective cost reduction due to the estimated impact of the annual maximum wages subject to payroll taxes. (An estimated percentage for labor burden may be used for pricing change orders. However, the percentage used for labor burden to price change orders will be

examined at the conclusion of the project and an adjustment to the approved change orders will be processed if it is determined that the actual labor burden percentage should have been more or less than the estimated percentage used.)

- 14.2.3.1 Non-Reimbursable Labor Burden. Employee Stock Ownership Plan (ESOP) related to fringe benefit costs are specifically considered non-reimbursable labor burden and any ESOP costs are considered covered by the allowable change order markups to cover overhead and profit.
- 14.2.4 Material. Estimated material change order costs shall reflect Contractor's reasonably anticipated net actual cost for the purchase of the material needed for the change order work. Estimated material costs shall reflect cost reductions available to Contractor due to "non-cash" discounts, trade discounts, free material credits, and/or volume rebates. "Cash" discounts (i.e. prompt payment discounts of 1.5% or less) available on material purchased for change order work shall be credited to Owner if Contractor has provided Owner funds in time for Contractor to take advantage of any such "cash" discounts. Price quotations from material suppliers must be itemized with unit prices for each specific item to be purchased. "Lot pricing" quotations will not be considered sufficient substantiating detail.
- 14.2.5 Equipment. Allowable change order estimated costs may include appropriate amounts for rental of major equipment specifically needed to perform the change order work (defined as tools and equipment with an individual purchase order cost of more than \$750). For Contractor owned equipment, the "bare" equipment rental rates allowed to be used for pricing change order proposals shall be 75% of the monthly rate listed in the most current publication of The AED Green Book divided by 173.3 to arrive at a maximum hourly rate to be applied to the hours the equipment is used performing the change order work. Further, for Contractor owned equipment the aggregate equipment rent charges for any signed piece of equipment used in all change order work shall be limited to 50% of the fair market value of the piece of equipment when the first change order is priced involving usage of the piece of equipment. Fuel necessary to operate the equipment will be considered a separate direct cost associated with the change order work.
- 14.2.6 Maximum Markup Percentage Allowable on Self-Performed Work. With respect to pricing change orders, the maximum markup percentage fee to be paid to any Contractor (regardless of tier) on self-performed work shall be a single markup percentage not-to-exceed fifteen percent (15%) of the net direct cost of 1) direct labor and allowable labor burden costs applicable to the change order or extra work 2) the net cost of material and installation equipment incorporated into the change or extra work, and 3) net rental cost of major equipment and related fuel costs necessary to complete the change in the work.
- 14.2.7 Maximum Markup Percentages Allowable on Work Performed by Subcontractors. With respect to pricing the portion of change order proposals involving work performed by Subcontractors, the maximum markup percentage fee allowable to the Contractor supervising the Subcontractor's work shall not exceed five percent (5%) of the net of all

approved change order work performed by all subcontractors combined for any particular Change Order Request.

- 14.2.8 GMP Limitation. For Contracts based on a GMP, the Construction Manager-at-Risk or Design Builder shall NOT be entitled to a percentage mark-up or additional fee on any Change Order Work unless the Change Order increases the GMP or if contingency funds are utilized. If the GMP increases or contingency funds are utilized, the Construction-Manager-at-Risk or Design Builder will be allowed additional fees at the rate specified in the Contract.
- 14.2.9 No Markup on Bonds and Liability Insurance Costs. Change Order cost adjustments due increases or decreases in bond or insurance costs (if applicable) shall not be subject to any markup percentage fee.
- 14.2.10 Direct and Indirect Costs Covered by Markup Percentages. As a further clarification, the agreed upon markup percentage fee is intended to cover the Contractor's profit and all indirect costs associated with the Change Order Work. Items intended to be covered by the markup percentage fee include, but are not limited to: home office expenses, branch office and field office overhead expense of any kind; project management; superintendents, general foremen; non-working foremen; estimating; engineering; coordinating; expediting; purchasing; detailing; legal; accounting; data processing or other administrative expenses; shop drawings; permits; auto insurance and umbrella insurance; pick-up truck costs; ESOP related costs; and warranty expense costs. The cost for the use of small tools is also to be considered covered by the markup percentage fee. Small tools shall be defined as tools and equipment (power or non-power) with an individual purchase cost of less than \$750.
- 14.2.11 Deduct Change Orders and Net Deduct Changes. The application of the markup percentage referenced in the Contract will apply to both additive and deductive change orders. In the case of a deductive change order, the credit will be computed by applying the sliding scale percentages as outlined above so that a deductive change order would be computed in the same manner as an additive change order. In those instances where a change order involves but additive and deductive work, the additions and deductions will be netted and the markup percentage adjustments will be applied to the net amount.
- 14.2.12 Contingency. In no event will any lump sum or percentage amounts for "contingency" be allowed to be added as a separate line item in change order estimates. Unknowns attributed to labor hours will be accounted for when estimating labor hours anticipated to perform the work. Unknowns attributable to material scrap and waste will be estimated as part of the material costs.
- 14.3 Unit Price Change Order Requests. As an alternative to Lump Sum Change Order Request, the Owner or the Contractor acting with the approval of the Owner may choose the option to use Contract unit prices. Agreed upon Contract unit prices shall be the same for added quantities and deductive quantities. Unit prices are not required to be used for pricing change orders where other methods of pricing change order work are more equitable.

- 14.3 Cost Plus Change Order Requests. As an alternative to either Lump Sum Change Order Requests or Unit Price Change Order Requests, the Owner may elect to have any extra work performed on a cost plus markup percentage fee basis. Upon written notification, the Contractor shall perform such authorized extra work at actual cost for direct labor (working foreman, journeymen, apprentices, helpers, etc.), actual cost of labor burden, actual cost of material used to perform the extra work, and actual cost of rental of major equipment (without any charge for administration, clerical expense, general supervision or superintendent of any nature whatsoever, including general foremen, or the cost or rental of small tools, minor equipment, or plant) plus the approved markup percentage fee. The intent of this clause is to define allowable cost plus chargeable costs to be the same as those allowable when pricing Lump Sum Change Requests as outlined above. Owner and Contractor may agree in advance in writing on a maximum price for this work and Owner shall not be liable for any charge in excess of the maximum. Daily time sheets with names of all Contractor's employees working on the project will be required to be submitted to the Owner for both labor and equipment used by the Contractor for the time periods during which extra work is performed on a cost plus fee basis. Daily time sheets will break down the paid hours worked by the Contractor's employees showing both base contract work as well as extra work performed by each employee.
- 14.4 Job Order Unit Prices. Job Order unit prices as stated in the contract document or Change Order Request shall be based upon a regional RS Means Book or Gordian Group pricing.
- 14.5 Claims for Additional Costs.
- 14.5.1 Claim with no Requested Change. If Contractor wishes to make a claim for an increase in the Contract Sum not related to a requested change, Contractor shall give Owner and Design Professional written notice thereof within twenty-one (21) days after the occurrence of the event giving rise to such claim, but, in any case before proceeding to execute the Work considered to be additional cost or time, except in an emergency endangering life or property in which case Contractor shall act in accordance with Section 10.3. No such claim shall be valid unless so made. If Owner and Contractor cannot agree on the amount of the adjustment in the Contract Sum, it shall be determined as set forth under Article 18. Any change in the Contract Sum resulting from such claim must be authorized by a Change Order.
- 14.5.2 Miscellaneous Claims. If Contractor claims that additional cost is involved because of, but not limited to: (1) any written interpretation of the Contract Documents; (2) any order by Owner to stop the Work pursuant to Article 17 where Contractor was not at fault; or (3) any written order for a minor change in the Work issued pursuant to Section 14.6, Contractor shall make such claim as provided in Section 14.5.1.
- 14.5.3 Failure to Notify. Should Contractor fail to call to the attention of Owner and Design Professional to discrepancies, errors, omissions, or inconsistencies in the Contract Documents, but claim additional costs for corrective Work after Contract award or after Owner's acceptance of Contractor's Construction Manager-at-Risk guaranteed maximum price, Owner may assume intent to circumvent competitive bidding for the necessary

corrective Work. In such case, Owner may choose to let a separate Contract for the corrective Work, or issue a CCD to require performance by Contractor. Claims for time extensions or for extra cost resulting from delayed notice of patent Contract Document discrepancies, errors, omissions, or inconsistencies will not be considered by Owner.

- 14.6 Minor Changes. Design Professional, with concurrence of OCM, will have authority to order minor changes in the Work not involving an adjustment in the Contract Sum or an extension of the Contract Time. Such changes shall be affected by written order which Contractor shall carry out promptly and record on as-built Record Documents.
- 14.7 Concealed Site Conditions. Contractor is responsible for visiting the Site and being familiar with local conditions such as the location, accessibility, and general character of the Site and/or building. If, in the performance of the Contract, subsurface, latent, or concealed conditions at the Site are found to be materially different from the information included in the Contract Documents, or if unknown conditions of an unusual nature are disclosed differing materially from the conditions usually inherent in Work of the character shown and specified, OCM and Design Professional shall be notified in writing of such conditions before they are disturbed. Upon such notice, or upon its own observation of such conditions, Design Professional, with the approval of ODR, will promptly make such changes in the Drawings and Specifications as deemed necessary to conform to the different conditions. Any increase or decrease in the cost of the Work, or in the time within which the Work is to be completed, resulting from such changes will be adjusted by Change Order.
- 14.8 Extension of Time. All changes to the Contract Time made as a consequence of requests as required in the UGC's, must be documented by Change Order.
- 14.9 Administration of Change Order Requests. All changes in the Contract shall be administered in accordance with procedures approved by Owner, and when required, make use of such electronic information management system(s) as Owner may employ.
- 14.9.1 Procedures.
- 14.9.1.1 Procedures for administration of Change Orders shall be established by Owner and stated in the Contract Documents.
- 14.9.1.2 No oral order, oral statement, or oral direction of Owner or his duly appointed representative shall be treated as a change under this article or entitle Contractor to an adjustment.
- 14.9.2 Routine Changes. Routine changes shall be formally initiated by Design Professional or Owner by means of a Proposal Request form detailing requirements of the proposed change for pricing by Contractor, or may be initiated by Contractor by means of a Change Order Request form detailing proposed work, pricing, and time. This action may be preceded by communications between Contractor, Design Professional, and OCM concerning the need and nature of the change, but such communications shall not constitute a basis for beginning the proposed Work by Contractor. Except for emergency conditions described

below, approval of Contractor's cost proposal by Design Professional and ODR will be required for authorization to proceed with the Work being changed. Owner will not be responsible for the cost of Work changed without prior approval and Contractor may be required to remove Work so installed.

- 14.9.3 Documentation. All proposed costs or time for Change Order Work must be supported by itemized accounting of material, equipment, and associated itemized installation costs in sufficient detail following the outline and organization of the established Schedule of Values, and be supported by documented impact to critical path activities, to permit analysis by Design Professional and ODR using current estimating guides and/or practices. Photocopies of Subcontractor and vendor proposals shall be furnished unless specifically waived by ODR. Contractor shall provide written response to a change request within twenty-one (21) days of receipt.
- 14.9.4 Emergencies. Emergency changes to save life or property may be initiated by Contractor alone with the claimed cost and/or time of such work to be fully documented as to necessity and detail of the reported costs and/or time.
- 14.9.5 Coordination with Schedule of Values. The method of incorporating approved Change Orders into the parameters of the accepted Schedule of Values must be coordinated and administered in a manner acceptable to Owner.
- 14.10 Construction Change Directive (CCD). Owner may issue a written CCD directing a change in the Work prior to reaching agreement with Contractor on the adjustment, if any, in the Contract Sum and/or the Contract Time. Owner retains sole discretion whether or not to issue any CCD. Owner's issuance of a CCD does not require Owner to issue subsequent Change Orders. Owner and Contractor shall negotiate for appropriate adjustments, as applicable, to the Contract Sum or the Contract Time arising out of a CCD. Contractor shall not submit its costs for CCD Work with its Application for Payment until a Change Order has been issued. The Parties reserve their rights as to the disputed amount, subject to Article 18.
- 14.11 Audit of Changes. All Change Orders are subject to audit by Owner or its representative at any time and Change Order amounts may be adjusted lower as a result of such audit.

ARTICLE 15.

PROJECT COMPLETION AND ACCEPTANCE

- 15.1 Closing Inspections.
- 15.1.1 Purpose of Inspection. Inspection is for determining the completion of the Work, and does not relieve Contractor of its overall responsibility for completing the Work in a good and competent fashion, in compliance with the Contract. Work accepted with incomplete Punch list items, or the failure of Owner or other parties to identify Work that does not comply with the Contract Documents or is defective in operation or workmanship, does

not constitute a waiver of Owner's rights under the Contract or relieve Contractor of its responsibility for performance or warranties.

15.1.2 Annotation. Any Certificate issued under this Article may be annotated to indicate that it is not applicable to specified portions of the Work, or that it is subject to any limitation as determined by Owner.

15.1.3 Substantial Completion Inspection. When Contractor considers the entire Work or part thereof Substantially Complete, it shall notify OCM in writing that the Work will be ready for Substantial Completion inspection on a specific date. Contractor shall include with this notice Contractor's Punch list to indicate that it has previously inspected all the Work associated with the request for inspection, noting items it has corrected and included all remaining work items with date scheduled for completion or correction prior to final inspection. The failure to include any items on this list does not alter the responsibility of Contractor to complete all Work in accordance with the Contract Documents. If any of the items on this list prevents the Project from being used as intended, Contractor shall not request a Substantial Completion inspection. Owner and its representatives will review the list of items and schedule the requested inspection, or inform Contractor in writing that such an inspection is premature because the Work is not sufficiently advanced or conditions are not as represented on Contractor's list.

15.1.3.1 Prior to the Substantial Completion inspection, Contractor shall furnish a copy of its marked-up Record Documents and a preliminary copy of each instructional manual, maintenance and operating manual, parts catalog, wiring diagrams, spare parts, specified written warranties, and like publications or parts for all installed equipment, systems, and like items as described in the Contract Documents. Delivery of these items is a prerequisite for requesting the Substantial Completion inspection.

15.1.3.2 On the date requested by Contractor, or as mutually agreed upon pending the status of the Open Items List, Design Professional, OCM, Contractor, and other Owner representatives as determined by Owner will jointly attend the Substantial Completion inspection, which shall be conducted by OCM or Owner's representative. If Owner and Design Professional determines that the Work is Substantially Complete, Design Professional will issue a Certificate of Substantial Completion to be signed by Design Professional, Owner, and Contractor establishing the date of Substantial Completion and identifying responsibilities for security and maintenance. Design Professional will provide with this certificate a list of Punch list items (the pre-final Punch list) for completion prior to final inspection. This list may include items in addition to those on Contractor's Punch list, which the inspection team deems necessary to correct or complete prior to final inspection. If Owner occupies the Project upon determination of Substantial Completion, Contractor shall complete all corrective Work at the convenience of Owner, without disruption to Owner's use of the Project for its intended purposes.

15.1.4 Final Inspection. Contractor shall correct or complete all items on the final Punch list before requesting a Final Completion inspection and Final Payment. Unless otherwise agreed to in writing by the parties, Contractor shall complete this work within thirty (30) days of receiving the final Punch list. Upon completion of the final Punch list, Contractor shall notify Design Professional and OCM in writing stating the disposition of each final Punch list item. Design Professional, Owner, and Contractor shall promptly inspect the completed items. When the final Punch list is complete, and the Contract is fully satisfied according to the Contract Documents Design Professional will issue a certificate establishing the date of Final Completion. Completion of all Work is a condition precedent to Contractor's right to receive Final Payment.

15.1.5 Additional Inspections.

15.1.5.1 If Owner's inspection team determines that the Work is not Substantially Complete at the Substantial Completion inspection, Owner or Design Professional will give Contractor written notice listing cause(s) of the rejection. Contractor will set a time for completion of incomplete or defective work acceptable to Owner. Contractor shall complete or correct all work so designated prior to requesting a second Substantial Completion inspection. Owner's or Design Professional's failure to include items as causes of rejection does not constitute a waiver of Owner's right under the Contract or relieve Contractor of its responsibility for performance.

15.1.5.2 If Owner's inspection team determines that the Work is not complete at the Final Completion inspection, Owner or Design Professional will give Contractor written notice listing the cause(s) of the rejection. Contractor will set a time for completion of incomplete or defective work acceptable to Owner. Contractor shall complete or correct all Work so designated prior to again requesting a final inspection. Owner's or Design Professional's failure to include items as causes of rejection does not constitute a waiver of Owner's right under the Contract or relieve Contractor of its responsibility for performance.

15.1.5.3 The Contract contemplates three (3) comprehensive inspections: the Substantial Completion inspection, the Final Completion inspection, and the inspection of completed final Punch list items. The cost to Owner of additional inspections resulting from the Work not being ready for one or more of these inspections is the responsibility of Contractor. Owner may issue a CO deducting these costs from Final Payment. Upon Contractor's written request, Owner will furnish documentation of any costs so deducted. Work added to the Contract by Change Order after Substantial Completion inspection is not corrective Work for purposes of determining timely completion, or assessing the cost of additional inspections.

15.1.6 Phased Completion. The Contract may provide, or Project conditions may warrant, as determined by ODR, that designated elements or parts of the Work be completed in phases. Where phased completion is required or specifically agreed to by the parties, the provisions of the Contract related to closing inspections, occupancy, and acceptance apply independently to each designated element or part of the Work. For all other purposes, unless otherwise agreed by the parties in writing, Substantial Completion of the Work as a whole is the date on which the last element or part of the Work completed receives a Substantial Completion certificate. Final Completion of the Work as a whole is the date on which the last element or part of the Work completed receives a Final Completion certificate.

15.2 Owner's Right of Occupancy. Owner may occupy or use all or any portion of the Work following Substantial Completion, or at any earlier stage of completion. Should Owner wish to use or occupy the Work, or part thereof, prior to Substantial Completion, Owner will notify Contractor in writing and identify responsibilities for security and maintenance. Work performed on the premises by third parties on Owner's behalf does not constitute occupation or use of the Work by Owner for purposes of this Article. All Work performed by Contractor after occupancy, whether in part or in whole, shall be at the convenience of Owner so as to not disrupt Owner's use of, or access to, occupied areas of the Project.

15.3 Acceptance and Payment.

15.3.1 Request for Final Payment. Following the certified completion of all Work, including all final Punch list items, cleanup, and the delivery of Record Documents, Contractor shall submit a certified Application for Final Payment and include all sums held as retainage and forward to Design Professional and OCM for review and approval.

15.3.2 Final Payment Documentation. Contractor shall submit, prior to or with the Application for Final Payment, final copies of all Close-Out Documents, maintenance and operating instructions, guarantees and warranties, certificates, Record Documents, and all other items required by the Contract. Contractor shall submit evidence of return of access keys and cards, evidence of delivery to Owner of attic stock, spare parts, and other specified materials. Contractor shall submit consent of surety to Final Payment form and an affidavit that all payrolls, bills for materials and equipment, subcontracted work, and other indebtedness connected with the Work, except as specifically noted, are paid, will be paid after payment from Owner, or otherwise satisfied within the period of time required by Tex. Gov't Code, Chapter 2251. Contractor shall furnish documentation establishing payment or satisfaction of all such obligations, such as receipts, releases, and waivers of claims and liens arising out of the Contract. Contractor may not subsequently submit a claim on behalf of Subcontractor or vendor unless Contractor's affidavit notes that claim as an exception.

15.3.3 Design Professional Approval. Design Professional will review a submitted Application for Final Payment promptly but in no event later than ten (10) days after its receipt. Prior to the expiration of this deadline, Design Professional will either: 1) return the Application

for Final Payment to Contractor with corrections for action and resubmission; or 2) accept it, note approval, and send to Owner.

- 15.3.4 Offsets and Deductions. Owner may deduct from the Final Payment all sums due from Contractor. If the Certificate of Final Completion notes any Work remaining, incomplete, or defects not remedied, Owner may deduct the cost of remedying such deficiencies from the Final Payment. On such deductions, Owner will identify each deduction, the amount, and the explanation of the deduction on or by the twenty-first (21st) day after Owner's receipt of an approved Application for Final Payment. Such offsets and deductions shall be incorporated via a final Change Order, including a CCD as may be applicable.
- 15.3.5 Final Payment Due. Final Payment is due and payable by Owner, subject to all allowable offsets and deductions, on the thirtieth (30th) day following Owner's approval of the Application for Payment. If Contractor disputes any amount deducted by Owner, Contractor shall give notice of the dispute on or before the thirtieth (30th) day following receipt of Final Payment. Failure to do so will bar any subsequent claim for payment of amounts deducted.
- 15.3.6 Effect of Final Payment. Final Payment shall not constitute a waiver of claims by Owner relating to the condition of the Work including those arising from:
- 15.3.6.1 Faulty or defective Work appearing after Substantial Completion (latent defects);
 - 15.3.6.2 Failure of the Work to comply with the requirements of the Contract Documents;
 - 15.3.6.3 Terms of any warranties required by the Contract, or implied by law; or
 - 15.3.6.4 Claims arising from personal injury or property damage to third parties.
- 15.3.7 Waiver of Claims. Acceptance of final payment constitutes a waiver of all claims and liens by Contractor except those specifically identified in writing and submitted to ODR prior to the application for Final Payment.
- 15.3.8 Effect on Warranty. Regardless of approval and issuance of Final Payment, the Contract is not deemed fully performed by Contractor and closed until the expiration of all warranty periods.

ARTICLE 16.

WARRANTY AND GUARANTEE

- 16.1 Contractor's General Warranty and Guarantee. Contractor warrants to Owner that all Work is executed in accordance with the Contract, complete in all parts and in accordance with approved practices and customs, and of the required finish and workmanship. Contractor further warrants

that unless otherwise specified, all materials and equipment incorporated in the Work under the Contract are new. Owner may, at its option, agree in writing to waive any failure of the Work to conform to the Contract, and to accept a reduction in the Contract Sum for the cost of repair or diminution in value of the Work by reason of such defect. Absent such a written agreement, Contractor's obligation to perform and complete the Work in accordance with the Contract Documents is absolute and is not waived by any inspection or observation, or lack thereof, by Owner, Design Professional, or others, by making any progress payment or final payment, by the use or occupancy of the Work or any portion thereof by Owner, at any time, or by any repair or correction of such defect made by Owner.

16.1.1 Warranty Period. Except as may be otherwise specified or agreed, Contractor shall repair all defects in materials, equipment, or workmanship appearing within one (1) year from the date of Substantial Completion of the Work. If Substantial Completion occurs by phase, the warranty period for that particular Work begins on the date of Substantial Completion of that phase, or as otherwise stipulated on the Certificate of Substantial Completion for that particular Work.

16.1.2 Limits on Warranty. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

16.1.2.1 Modification or improper maintenance or operation by persons other than Contractor, Subcontractors, or any other individual or entity for whom Contractor is not responsible, unless Owner is compelled to undertake maintenance or operation due to the neglect of Contractor.

16.1.2.2 Normal wear and tear under normal usage after acceptance of the Work by Owner.

16.1.3 Events Not Affecting Warranty. Contractor's obligation to perform and complete the Work in a good and workmanlike manner in accordance with the Contract Documents is absolute. None of the following will constitute an acceptance of defective Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

16.1.3.1 Observations, or lack thereof, by Owner and/or Design Professional;

16.1.3.2 Recommendation to pay any progress or final payment by Design Professional;

16.1.3.3 The issuance of a certificate of Substantial Completion or any payment by Owner to Contractor under the Contract Documents;

16.1.3.4 Use or occupancy of the Project or any part thereof by Owner;

16.1.3.5 Any acceptance by Owner or any failure to do so;

16.1.3.6 Any review by Owner of a Shop Drawing or sample submittal; or

16.1.3.7 Any inspection, test or approval by others.

16.2 Separate Warranties. If a particular piece of equipment or component of the Work for which the Contract requires a separate warranty is placed in continuous service before Substantial Completion, the warranty period for that equipment or component will not begin until Substantial Completion, regardless of any warranty agreements in place between suppliers and/or Subcontractors and Contractor. Contractor shall assume any duty to repair not otherwise covered by those warranty agreements. Owner will certify the date of service commencement in the Substantial Completion certificate.

16.2.1 Assumption. In addition to Contractor's warranty and duty to repair, Contractor expressly assumes all warranty obligations required under the Contract for specific building components, systems, and equipment.

16.2.2 Assignment. Contractor may satisfy any such obligation by obtaining and assigning to Owner a complying warranty from a manufacturer, supplier, or Subcontractor. Where an assigned warranty is tendered and accepted by Owner which does not fully comply with the requirements of the Contract, Contractor remains liable to Owner on all elements of the required warranty not provided by the assigned warranty.

16.3 Correction of Defects. Upon receipt of written notice from Owner, or any agent of Owner designated as responsible for management of the warranty period, of the discovery of a defect, Contractor shall promptly remedy the defect(s), and provide written notice to Owner and designated agent indicating action taken. In case of emergency where delay would cause serious risk of loss or damage to Owner, or if Contractor fails to remedy within thirty (30) days, or within another period agreed to in writing, Owner may correct the defect and be reimbursed the cost of remedying the defect from Contractor or its surety.

16.4 Certification of No Asbestos Containing Materials or Work. Contractor shall provide a notarized certification to Owner that all equipment and materials used in fulfillment of its Contract responsibilities are non-Asbestos Containing Building Materials (ACBM). This certification must be provided no later than Contractor's application for Final Payment. Contractor shall insure that Texas Department of State Health Services licensed individual, consultants or companies are used for any required asbestos work including asbestos inspection, asbestos abatement plans/specifications, asbestos abatement, asbestos project management and third-party asbestos monitoring.

16.5 Compliance with Acts. Contractor shall warrant and ensure compliance with the following Acts by Contractor or Contractor's Subcontractors and assigns:

- Asbestos Hazard Emergency Response Act (AHERA-40 CFR 763-99 (7));
- National Emission Standards for Hazardous Air Pollutants (NESHAP-EPA 40 CFR 61, Subpart M-National Emission Standard for Asbestos); and

- Texas Asbestos Health Protection Rules (TAHPR-Tex. Admin. Code Title 25, Part 1, Ch. 295C, Asbestos Health Protection)

ARTICLE 17.
SUSPENSION AND TERMINATION

- 17.1 Suspension of Work for Cause. Owner may, at any time without prior notice, suspend all or any part of the Work, if after reasonable observation and/or investigation, Owner determines it is necessary to do so to prevent or correct any condition of the Work, which constitutes an immediate safety hazard, or which may reasonably be expected to impair the integrity, usefulness, or longevity of the Work when completed.
- 17.1.1 Cease Work. Owner will give Contractor a written notice of suspension for cause, setting forth the reason for the suspension and identifying the Work suspended. Upon receipt of such notice, Contractor shall immediately stop the Work so identified.
- 17.1.2 Investigation. As soon as practicable following the issuance of such a notice, Owner will initiate and complete a further investigation of the circumstances giving rise to the suspension, and issue a written determination of the findings. Contractor shall cooperate with Owner's investigation.
- 17.1.3 Outcome. If it is confirmed that the cause was within the control of Contractor, Contractor will not be entitled to an extension of Contract Time or any compensation for delay resulting from the suspension. If the cause is determined not to have been within the control of Contractor, and the suspension has prevented Contractor from completing the Work within the Contract Time, the suspension shall be considered an Excusable Delay and an extension of Contract Time will be granted through a Change Order.
- 17.1.4 Time. Suspension of Work under this provision will be no longer than is reasonably necessary to investigate and remedy the conditions giving rise to the suspension.
- 17.2 Suspension of Work for Owner's Convenience. Upon seven (7) days written notice to Contractor, Owner may at any time without breach of the Contract suspend all or any portion of the Work for its own convenience. When such a suspension prevents Contractor from completing the Work within the Contract Time, it shall be considered an Excusable Delay. A notice of suspension for convenience may be modified by Owner at any time on seven (7) days written notice to Contractor. If Owner suspends the Work for its convenience for more than sixty (60) consecutive days, Contractor may elect to terminate the Contract pursuant to the provisions of the Contract.
- 17.3 Termination by Owner for Cause.
- 17.3.1 Cause. Upon written notice to Contractor and its surety, Owner may, without prejudice to any right or remedy, terminate the Contract and take possession of the Site and of all materials, equipment, tools, construction equipment, and machinery thereon owned by Contractor under any of the following circumstances:

- 17.3.1.1 Persistent or repeated failure or refusal, except during complete or partial suspensions of work authorized under the Contract, to supply enough properly skilled workmen or proper materials;
 - 17.3.1.2 Persistent disregard of laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, including Owner;
 - 17.3.1.3 Persistent failure to prosecute the Work in accordance with the Contract, and to ensure its completion within the Contract Time;
 - 17.3.1.4 Failure to remedy defective work;
 - 17.3.1.5 Failure to pay Subcontractors, laborers, and material suppliers pursuant to Tex. Gov't Code, Chapter 2251;
 - 17.3.1.6 Persistent endangerment to the safety of labor or of the Work;
 - 17.3.1.7 Failure to supply or maintain statutory bonds or to maintain required insurance pursuant to the Contract;
 - 17.3.1.8 Any material breach of the Contract; or
 - 17.3.1.9 Contractor's insolvency, bankruptcy, or demonstrated financial inability to perform the Work.
- 17.3.2 No Waiver. Failure by Owner to exercise the right to terminate in any instance is not a waiver of the right to do so in any other instance.
- 17.3.3 Notice. Owner may immediately terminate the Contract under the provisions of this Section 17.3 upon written notice to Contractor and Contractor's sureties. Owner may also give notice to Contractor and Contractor's sureties of Owner's intent to terminate the Contract under the provisions of this Section 17.3 at any later date upon written notice to Contractor and its sureties.
- 17.3.4 Cure. Should Contractor or its surety, after having received notice of Owner's intent to terminate at a later date, demonstrate to the satisfaction of Owner that Contractor or its surety are proceeding to correct such default with diligence and promptness, upon which the notice of intent to terminate was based, the notice of intent to terminate may be rescinded in writing by Owner. If so rescinded, the Work may continue without an extension of Contract Time.
- 17.3.5 Failure to Cure. Should Contractor or its surety fail, after having received notice of Owner's intent to terminate, to commence and continue correction of such default with diligence and promptness to the satisfaction of Owner within the date specified by Owner, Owner may arrange for completion of the Work and deduct the cost of completion from the unpaid Contract Sum.

- 17.3.5.1 This amount includes the cost of additional Owner costs such as Design Professional services, other consultants, and contract administration.
- 17.3.5.2 Owner will make no further payment to Contractor or its surety unless the costs to complete the Work are less than the Contract balance, then the difference shall be paid to Contractor or its surety. If such costs exceed the unpaid balance, Contractor or its surety will pay the difference to Owner.
- 17.3.5.3 This obligation for payment survives the termination of the Contract.
- 17.3.5.4 Owner reserves the right in termination for cause to take assignment of all the Contracts between Contractor and its Subcontractors, vendors, and suppliers. Owner will promptly notify Contractor of the contracts Owner elects to assume. Upon receipt of such notice, Contractor shall promptly take all steps necessary to effect such assignment.
- 17.3.6 Conversion to Termination for Convenience. In the event that any termination of the Contract for cause under this Section 17.3 is later determined to have been improper, the termination shall automatically convert to a termination for convenience of Owner and Contractor's recovery for termination shall be strictly limited to the payments allowable under Subsection 17.4.3.
- 17.4 Termination for Convenience of Owner. Owner reserves the right, without breach, to terminate the Contract prior to, or during the performance of the Work, for any reason. Upon such an occurrence, the following shall apply:
 - 17.4.1 Notice. Owner will immediately notify Contractor and Design Professional in writing, specifying the reason for and the effective date of the Contract termination. Such notice may also contain instructions necessary for the protection, storage, or decommissioning of incomplete Work or systems, and for safety.
 - 17.4.2 Contractor Action. Upon receipt of the notice of termination, Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due at that point in the Contract:
 - 17.4.2.1 Stop all work.
 - 17.4.2.2 Place no further subcontracts or orders for materials or services.
 - 17.4.2.3 Terminate all subcontracts for convenience.
 - 17.4.2.4 Cancel all materials and equipment orders as applicable.
 - 17.4.2.5 Take action that is necessary to protect and preserve all property related to the Contract which is in the possession of Contractor.

- 17.4.3 Contractor Remedy. When the Contract is terminated for Owner's convenience, Contractor may recover from Owner payment for all Work completed including the corresponding pro rata portion of Contractor's overhead and profit. Contractor may not claim lost profits on other work or lost business opportunities.
- 17.5 Termination by Contractor. If the Work is stopped for a period of ninety (90) days under an order of any court or other public authority having jurisdiction, or as a result of an act of government, such as a declaration of a national emergency making materials unavailable, through no act or fault of Contractor or Subcontractor or their agents or employees or any other persons performing any of the Work under a contract with Contractor, then Contractor may, upon thirty (30) additional days written notice to ODR, terminate the Contract and recover from Owner payment for all Work completed including the corresponding pro rata portion of Contractor's overhead and profit, but not lost profits on other work or lost business opportunities. If the cause of the Work stoppage is removed prior to the end of the thirty (30) day notice period, Contractor may not terminate the Contract.
- 17.6 Settlement on Termination. When the Contract is terminated for any reason, at any time prior to one hundred eighty (180) days after the effective date of termination, Contractor shall submit a final termination settlement proposal to Owner based upon recoverable costs as provided under the Contract. If Contractor fails to submit the proposal within the time allowed, Owner may determine the amount due to Contractor because of the termination and pay the determined amount to Contractor as final payment.

ARTICLE 18.
DISPUTE RESOLUTION

- 18.1 Contracts Less Than \$250,000. The dispute resolution process provided for in Texas Government Code, Chapter 2260, shall be used by Contractor or Design Professional to attempt to resolve any claim for breach of Contract made by Contractor or Design Professional that is not resolved under procedures described throughout the Uniform General Conditions or any Supplementary or Special Conditions of the Contract, *where the amount in controversy is less than \$250,000.*
- 18.2 Contracts \$250,000 or Greater. Contractor or Design Professional and Owner shall use the following dispute resolution process prior to initiating any litigation or filing suit in a court of competent jurisdiction.
- 18.2.1 Mediation. If a dispute arises out of or relates to the Contract or the breach thereof in which the amount in controversy is \$250,000 or greater, and if the dispute cannot be settled through negotiation, the parties agree first to try to settle the dispute by mediation using the procedures specified in this section prior to the commencement of any legal action. The parties commit to participate in the proceedings in good faith with the intention of resolving the dispute if at all possible.
- 18.2.1.1 The party seeking to initiate mediation of a dispute shall give written notice to the other party describing the nature of the dispute, the initiating party's claim

for relief and identifying one or more individuals with authority to settle the dispute on such party's behalf. The party receiving such notice shall have five (5) business days to designate by written notice one or more individuals with authority to settle the dispute on such party's behalf.

- 18.2.1.2 The parties shall then have ten (10) business days to submit to each other a written list of acceptable qualified mediators not affiliated with any of the parties. The mediator shall possess the qualifications required under Civil Practice and Remedies Code, § 154.052, be subject to the standards and duties prescribed by Civil Practice and Remedies Code, §154.053, and have the qualified immunity prescribed by Civil Practice and Remedies Code, §154.055, if applicable. The parties shall mutually agree on the mediator.
- 18.2.1.3 In consultation with the mediator selected, the parties shall promptly designate a mutually convenient time and place for the mediation, and unless circumstances require otherwise, such time to be not later than forty-five (45) days after selection of the mediator.
- 18.2.1.4 The parties agree to participate in the mediation to its conclusion. The mediation shall be terminated (i) by the execution of a settlement agreement by the parties, (ii) by a declaration of the mediator that the mediation is terminated, or (iii) by a written declaration of a party to the effect that the mediation process is terminated at the conclusion of one (1) full day's mediation session. Even if the mediation is terminated without a resolution of the dispute, the parties agree not to terminate negotiations and not to commence any legal action or seek other remedies prior to the expiration of five (5) days following the mediation. Notwithstanding the foregoing, any party may commence litigation within such five (5) day period if litigation could be barred by an applicable statute of limitations or in order to request an injunction to prevent irreparable harm.
- 18.2.1.5 The parties shall share the cost of the mediation process equally although each party's attorneys and witnesses or specialists are the direct responsibility of each party and their fees and expenses shall be the responsibility of the individual parties.
- 18.2.1.6 The entire mediation process is confidential, and no stenographic, visual or audio record shall be made. All conduct, statements, promises, offers, views and opinions, whether oral or written, made in the course of the mediation by any party, their agents, employees, representatives or other invitees and by the mediator are confidential and shall, in addition and where appropriate, be deemed to be privileged and shall not be discoverable or admissible for any purpose, including impeachment, in any litigation or other proceeding involving the parties.

- 18.3 Owner Retained Rights. Nothing herein shall hinder, prevent, or be construed as a waiver of Owner's right to seek redress on any disputed matter in a court of competent jurisdiction.
- 18.4 No Waiver. Except as may be expressly and specifically provided otherwise by Chapter 114, Texas Civil Practice & Remedies Code, nothing herein shall be construed as a waiver of sovereign immunity; nor constitute or be construed as a waiver of any of the privileges, rights, defenses, remedies, or immunities available to the State of Texas or the University of North Texas System.
- 18.5 No Attorney's Fees. In any litigation between Owner and Contractor or Design Professional arising from the Contract or Project, neither party will be entitled to an award of legal fees or costs in any judgment regardless of which is deemed the prevailing party.
- 18.6 Interest. Owner shall be billed in accordance with Chapter 2251 of Texas Government Code and interest, if any, on past due payments shall accrue and be paid in accordance with 2251 of the Texas Government Code.

ARTICLE 19.
MISCELLANEOUS

- 19.1 Right to Audit. Owner, or any of its duly authorized auditors or representatives including the State Auditor's Office, shall during regular business hours and upon reasonable notice have access to and the right to examine, and be permitted to audit and copy, any directly pertinent books, documents, papers, and records of Contractor, including, without limitation, complete documentation supporting accounting entries, books, correspondence, instructions, drawings, receipts, subcontracts, Subcontractor's quotes, proposals, purchase order, vouchers, memoranda, schedules, electronic data, pictures, videos, logs, minutes, notes, reports and other data relating to the Project. Further, Contractor or Design Professional agree to include in all subcontracts a provision to the effect that Subcontractor agrees that Owner or any of its duly authorized representatives shall have access to and the right to examine any directly pertinent books, documents, papers, and records of such Subcontractor relating to any claim arising from the Contract and subcontract, whether or not the Subcontractor is a party to the claim. The period of access and examination described herein shall continue until the later of seven (7) years after Final Payment or final disposition of any disputes, claims, litigation, or appeals arising out of the Contract.
- 19.2 Records and Inspection. Owner's representatives may (without limitation) conduct verifications such as counting employees at the construction site, witnessing the distribution of payroll, verifying information and amounts through interviews and written confirmations with Contractor employees, Subcontractors and vendors. Contractor's "records" as referred to in this contract shall include any and all information, materials and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, recordings, agreements, purchase orders, leases contracts, commitments, arrangements, notes, daily diaries, emails, superintendent reports, drawings, receipts, vouchers and memoranda and any and all other agreements, sources of information and matters that may in the Owner's judgment have any bearing on or pertain to

any matters, rights, duties or obligations under or covered by any Contract Documents. Such records shall include written policies and procedures; time sheets; payroll registers; payroll records; cancelled payroll checks; subcontract files (including proposals of successful and unsuccessful bidders, bid recaps, negotiation notes, etc.); original bid estimates; estimating work sheets; correspondence; change order files (including documentation; invoices and related payment documentation; general ledger, information detailing cash and trade discounts earned, insurance rebates and dividends; and any other contractor records which may have a bearing on matters of interest to the Owner in connection with the contractor's dealings with the Owner (all foregoing hereinafter referred to as "records" to the extent necessary to adequately permit evaluation and verification of any or all of the following:

- 19.2.1 Deliverables: Compliance with contract requirements for deliverables
- 19.2.2 Plans and Specifications: Compliance with approved plans and specifications
- 19.2.3 Ethics Expectations: Compliance with Owner's business ethics expectations
- 19.2.4 Change Order Pricing: Compliance with contract provisions regarding the pricing of Change Orders
- 19.2.5 Invoice Accuracy: Accuracy of Contractor representations regarding the pricing of invoices
- 19.2.6 Claims: Accuracy of Contractor representations related to claims submitted by the Contractor or any of his payees.
- 19.3 Audit of Subcontractor: Contractor shall require all payees receiving \$10,000 or more in connection with this contract to comply with the audit requirements herein by including the requirements hereof in a written contract agreement.
- 19.4 Overpricing or Overcharges: If an audit inspection or examination discloses overpricing or overcharges to the Owner (of any nature) by the Contractor and/or Subcontractors in excess of \$100,000, in addition to adjusting for overcharges, the reasonable actual cost of the Owner's audit shall be reimbursed to the Owner by Contractor. Any adjustments and/or payments which must be made as a result of any such audit or inspection of Contractor's records shall be made within a reasonable amount of time (not to exceed 90 days) from presentation of Owner's finding to Contractor.
- 19.5 Documentation Requirements: In addition to the normal paperwork documentation the Contractor typically furnishes to the Owner, in order to facilitate efficient use of Owner resources when reviewing and/or auditing the Contractor's billings and related reimbursable cost records, Contractor agrees to furnish upon request the following types of information in the specified computer (PC) readable file format(s), as applicable:

<u>Type of Record</u>	<u>PC Readable File Format</u>
Monthly Job Cost Detail_	.pdf and Excel_
Detailed Job Cost History To Date_	.pdf and Excel_
Monthly Labor Distribution Detail (if not already separately detailed in the Job Cost Detail)_	.pdf and Excel_
Total Job To Date Labor Distribution Detail (if not already separately detailed in the Job Cost History To Date)_	.pdf and Excel_
Employee Timesheets Documenting Time Worked By All Individuals Who Charge Reimbursable Time To The Project_	.pdf_
Daily Foreman Reports Listing Names And Hours And Tasks Of Personnel Who Worked On The Project_	.pdf_
Daily Superintendent Reports_	.pdf_
Detailed Subcontract Status Reports (showing original subcontract value, approved subcontract change orders, subcontractor invoices, payments to subcontractors, etc.)_	.pdf and Excel_
Copies Of Executed Subcontracts With All Subcontractors_	.pdf_
Copies Of All Executed Change Orders Issued To Subcontractors_	.pdf_
Copies Of All Documentation Supporting All Reimbursable Job Costs (subcontractor payment applications, vendor invoices, internal cost charges, etc.)_	.pdf_

19.6 Supplementary or Special Conditions. When the Work contemplated by Owner is of such a character that the foregoing Uniform General Conditions of the Contract cannot adequately cover necessary and additional contractual relationships, the Contract may include Supplementary General or Special Conditions as described below:

19.6.1 Supplementary Conditions. Supplementary Conditions may describe the standard procedures and requirements of contract administration. Supplementary Conditions may expand upon matters covered by the Uniform General Conditions, where necessary, provided the expansion does not weaken the character or intent of the Uniform General

Conditions. Supplementary Conditions are of such a character that it is to be anticipated that Owner may normally use the same, or similar, conditions to supplement each of its several projects.

- 19.6.2 Special Conditions. Special Conditions shall relate to a particular Project and be unique to that Project but shall not weaken the character or intent of the Uniform General Conditions.
- 19.7 Federally Funded Projects. On federally funded projects, Owner may waive, suspend, or modify any provision in these Uniform General Conditions which conflicts with any federal statute, rule, regulation, or procedure, where such waiver, suspension, or modification is essential to receipt by Owner of such federal funds for the Project. In the case of any Project wholly financed by federal funds, any standards required by the enabling federal statute, or any federal rules, regulations, or procedures adopted pursuant thereto, shall be controlling.
- 19.8 Internet-based Project Management Systems. At its option, Owner may administer its design and construction management through an Internet-based management system. In such cases, Contractor shall conduct communication through this media and perform all Project related functions utilizing this database system. This includes correspondence, submittals, Requests for Information, vouchers, or payment requests and processing, amendment, Change Orders, and other administrative activities.
- 19.8.1 Accessibility and Administration.
- 19.8.1.1 When used, Owner will make the software accessible via the Internet to all Project team members.
- 19.8.1.2 Owner shall administer the software.
- 19.8.2 Training. When used, Owner shall provide training to the Project team members.
- 19.9 Computation of Time. In computing any time period set forth in this Contract, the first day of the period shall not be included, but the last day shall be.
- 19.10 Survival of Obligations. All representations, indemnifications, warranties and guarantees made in accordance with the Contract Documents will survive final payment, completion and acceptance of the Work, as well as termination for any reason. All duties imposed upon the Contractor by reason of termination, including without limitation the duty to assign subcontracts and contracts with vendors and suppliers, shall likewise survive the termination of the Contract.
- 19.11 No Waiver of Performance. The failure of either party in any instance to insist on the performance of any of the terms, covenants or conditions of the Contract Documents, or to exercise any of the rights granted thereunder, shall not be construed as waiver of any such term, covenant, condition or right with respect to further performance.
- 19.12 Governing Law and Venue. The Contract shall be governed by the laws of the State of Texas. Venue for any suit arising from the Contract will be in a court of competent jurisdiction subject to

the mandatory venue statute set forth in § 105.151 of the Texas Education Code, or if mandatory venue is not applicable in the county in which the Project is located.

- 19.13 Captions and Catch Lines. The captions and catch lines used throughout the Uniform General Conditions and elsewhere in the Contract Documents are for ease of reference only and have no effect on the meaning of the terms and conditions set forth herein.
- 19.14 Independent Contractor Status. The Contract Documents create an independent contractor relationship between the Owner and Contractor and neither party's employees or contractors shall be considered employees, contractors, partners or agents of the other party.
- 19.15 No Third-Party Beneficiaries. The parties do not intend, nor shall any clause be interpreted to create in any third party, any obligations to, or right of benefit by, such third party under these Contract Documents from either the Owner or Contractor.
- 19.16 Child Support Obligor. Notwithstanding anything to the contrary within the Contract Documents, it is understood and agreed between the parties that in accordance with the laws of the State of Texas, a child support obligor who is more than thirty (30) days delinquent in paying child support, and a business entity in which an obligor is a sole proprietor, partner, shareholder, or owner with an ownership interest of at least twenty-five percent (25%), is not eligible to receive payments from state funds under a contract to provide property, materials or services until all arrearages have been paid or the obligor is in compliance with a written repayment agreement.
- 19.17 Buy America Requirements for Iron and Steel Used in Construction. In accordance with Texas Government Code 2252, Section 2252.202, all iron or steel products (i.e., rolled structural shapes including wide flange beams and columns, angles, bars, plates, sheets, hollow structural sections, pipe, etc.) shall be produced, manufactured and fabricated in the United States.
- 19.18 No Assignment. This Contract may not be assigned by either party without the prior written consent of the other, except either party may, upon notice to the other party but without the other party's consent, assign this Contract to a present or future affiliate or successor, provided that any such assignment by Contractor shall be contingent on Owner's determination that the assignee is qualified to perform the Work, is in good standing with the State of Texas and otherwise eligible to do business with the State of Texas.
- 19.19 Severability. If any provision, sentence, clause or article of this Contract is found to be invalid or unenforceable for any reason, the remaining provisions shall continue in effect as if the invalid or unenforceable provision were not in the Contract. All provisions, sentences, clauses and articles of this Contract are severable for this purpose.
- 19.20 Parties Bound. Execution of this Contract by each party binds the entity represented as well as its employees, agents, successors and assigns to its faithful performance.
- 19.21 Public Information. Owner shall release information to the extent required by the Texas Public Information Act and other applicable law. If requested, Contractor shall make public information available to Owner in an electronic format.

19.22 Business Ethics Expectations

19.22.1 Contractor: During the course of pursuing contracts with the Owner and while performing the Work in accordance with the Contract, Contractor agrees to maintain business ethics standards aimed at avoiding any impropriety or conflict of interest which could be construed to have an adverse impact on the Owner's best interests

19.22.2 Reasonable Action: Contractor shall take reasonable actions to prevent any actions or conditions which could result in a conflict with the Owners' best interests. These obligations shall apply to the activities of Contractor employees, agents, subcontractors, subcontractor employees, consultants of Contractor, etc.

19.22.3 Gifts and Other Considerations: Contractor and its employees, agents, subcontractors, and material suppliers (or their representatives) should not make or cause to be made any cash payments, commissions, employment, gifts, entertainment, free travel, loans free work, substantially discounted work, or any other considerations to the Owner's representatives, employees or their relatives.

19.22.4 Subcontractors: Contractor and its employees, agents or subcontractors (or their relatives) should not receive any cash payments, commissions, employment, gifts, entertainment, free travel, loans, free work, or substantially discounted work or any other considerations from subcontractors, or material suppliers or any other individuals, organizations, or businesses receiving funds in connection with the Project.

19.22.5 Other Jobs: Contractor shall not receive the benefit of discounted bids or reduced payments on other jobs as an offset to bids, base subcontracts, and/or change orders on the Project.

19.22.6 Owner Notification: It is expected that the ODR be notified as soon as possible whenever anyone aware of these business ethics expectations believes there has been a failure to comply with the provisions herein or an attempt to have someone violate the business ethics expectations.

- Notifications may be made anonymously.
- Contractor representatives and/or subcontractor representatives familiar with the Project shall provide upon request a Certified Management Representation Letter in a form agreeable to the Owner stating that they are not aware of any situations violating the business ethics expectations outlined herein or any similar potential conflict of interest situations in connection with the Project.

19.22.7 Subcontractor Contracts: Contractor agrees to include the Business Ethics Expectation clause in all contracts with Subcontractors, subconsultants and material suppliers receiving more than \$10,000 in funds in connection with the Project.

19.22.8 Interviews and Audits: Contractor and any other third party receiving more than \$10,000 in connection with the Project shall permit interviews of employees and audits of its records by ODR to evaluate compliance with business ethics expectations. Such reviews and audits

will encompass all dealings and activities of Contractor's employees, agents, representatives, vendors, subcontractors, and other third parties paid by Contractor.

- 19.23 Entire Agreement. The Contract Documents supersede in full all prior discussions and agreements (oral and written) between the parties relating to the subject matter hereof and constitute the entire agreement.

ISSUED DATE
August 1, 2023

DOCUMENT 006000

PROJECT FORMS

PAYMENT BOND

Surety Bond No. _____

STATE OF TEXAS §
COUNTY OF §

KNOW ALL MEN BY THESE PRESENT: That we, _____, as Principal, and _____, as Surety, are hereby held and firmly bound unto the University of North Texas System, as Obligee, in the sum of Dollars (\$ _____) for payment whereof the said Principal and Surety bind themselves, their heirs, executors, administrators, and successors, jointly and severally, by the terms and conditions herein.

The conditions of this obligation are such that whereas the Principal entered into a certain contract with the Obligee, as an entity of the State of Texas, dated the ___ day of ___, 200_ ("Contract"), which is hereto attached and made a part hereof for all purposes, for the purpose of _____.

NOW THEREFORE, the condition of this obligation is such that this Payment Bond shall remain in full force and effect unless and until 120 days after Principal has faithfully performed the Contract in accordance with the Contract documents and Principal has executed a copy of the attached Payment Affidavit and provided it to Obligee.

In the event that the Principal fails to promptly pay when due any amount owed to persons who have supplied labor, materials, or supplies used in Principal's performance of the said Contract, the Surety will, upon receipt of notice from the Obligee or a claim in the form required by law, satisfy all undisputed balances due, and make arrangements satisfactory to the interested parties to resolve all amounts disputed in good faith, but in no event shall the liability of the Surety for the Principal's failure to promptly pay for labor, materials, or supplies exceed the amount of this bond.

The Surety agrees to pay to the Obligee upon demand all loss and expense, including attorney's fees, incurred by the Obligee by reason of or on account of any breach of this obligation by the Principal or the Surety.

Provided further, that this bond is made and entered into for the protection of all parties supplying labor or materials in the prosecution of the work provided for in the said Contract, and all such parties shall have a direct right of action under this bond as provided in Chapter 2253 of the Texas Government Code. If any legal action is filed upon this bond, venue shall lie in Denton County, Texas.

The liabilities, rights, limitations and remedies concerning this Bond shall be determined in accordance with the provisions of Chapter 2253 of the Texas Government Code, pursuant to which this bond is executed.

IN WITNESS WHEREOF, the above parties have executed this instrument under their several seals this _____ day of _____ in the year 20____, the name and seal of each party being hereto affixed, and duly signed by its undersigned representative pursuant to authority of its governing body.

CONSTRUCTION MANAGER-AT-RISK

(Firm Name)

(Address)

(Signature)

(City, State, Zip)

(Typed Name and Title)

(Telephone)

(Texas Vendor ID No.)

PERFORMANCE BOND

Surety Bond No.

STATE OF TEXAS §
COUNTY OF §

LET IT BE KNOWN BY THIS INSTRUMENT: That we, _____, as Principal, and _____ a corporation duly authorized to do business in the State of Texas, as Surety, are hereby held and firmly bound unto the University of North Texas System, as Obligee, in the sum of _____ Dollars (\$ _____) for payment whereof the said Principal and Surety bind themselves, their heirs, executors, administrators, and successors, jointly and severally, by the terms and conditions herein.

The conditions of this obligation are such that whereas the Principal entered into a certain contract with the Obligee, as an entity of the State of Texas, dated the _____ day of _____, 20 ("Contract"), which is hereto attached and made a part hereof for all purposes, for the purpose of _____.

NOW THEREFORE, the condition of this obligation is such that this Performance Bond shall remain in full force and effect unless and until the Principal has faithfully performed the Contract in accordance with the Plans, Specifications and Contract documents. Further, under the terms of this Performance Bond, Principal shall fully indemnify and save harmless the Obligee from all cost and damage which the Obligee may suffer by reason of Principal's default or failure to perform and shall fully reimburse and repay the Obligee all outlay and expense which the Obligee may incur in making good any such default.

In the event that the Principal's failure as defined by the Contract Documents, to faithfully perform the Contract, Surety will within fifteen (15) days of determination of default, assume full responsibility for completion of said Contract and become entitled to payment of the balance of the Contract amount. Conditioned upon the Surety's faithful performance of its obligations, the liability of the Surety for the Principal's default shall not exceed the penalty of this Bond.

The Surety agrees to pay to the Obligee upon demand all loss and expense, including attorney's fees, incurred by the Obligee by reason of or on account of any breach of this obligation by the Principal or the Surety.

Provided further, that the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the said Contract, or to the work to be performed thereunder, or the Specifications accompanying the same, shall in anyway affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition, to the terms of the said Contract or to the work or to the Specifications.

Provided further, that if any legal action be filed upon this Bond, venue shall lie in Denton County, Texas.

The liabilities, rights, limitations and remedies concerning this Bond shall be determined in accordance with the provisions of Chapter 2253 of the Texas Government Code, pursuant to which this Bond is executed.

IN WITNESS WHEREOF, the above parties have executed this instrument under their several seals this _____ day of _____ in the year 20____, the name and corporate seal of each corporate party being hereto affixed, and these present duly signed by its undersigned representative pursuant to authority of its governing body.

ATTEST:

(Signature)

(Typed Name and Title)

(SEAL)

ATTEST:

(Signature)

(Typed Name and Title)

(SEAL)

Surety's Texas Local Recording
Agent or Resident Agent:

(Signature)

(Typed Name)

(License No.)

(File No)

(Address)

(City, State, Zip)

(Telephone)

(Principal)

(Signature)

(Typed Name and Title)

(Surety)

(Signature)

(Typed Name and Title)

Surety's Home Office Agent or
Servicing Agent:

(Name)

(Title)

(Address)

(City, State, Zip)

(Telephone)

GOVERNMENT AGENCIES

BUILDING DEPARTMENT
 Department of Development Services
 Building Safety
 401 N. Elm St.
 Denton, Texas 76201
 www.cityofdenton.com/Building
 Contact Name:
 Contact Email: developmentpermits@dentoncounty.gov
 Phone: (940) 349-2990

FIRE DEPARTMENT
 Denton Fire Department
 332 E. Hickory St.
 Denton, TX 76201
 Phone: (940) 349-8840
 Contact Name:
 Contact Email: dentonfire@cityofdenton.com

HEALTH DEPARTMENT
 Denton County Public Health
 535 S Loop 288 #1003
 Denton, TX 76205
 Phone: (940) 349-2900
 Contact Name:
 Contact Email:

TEXAS ACCESSIBILITY
 Otten Consulting Group
 810 Highway 6 S, Suite 111
 Houston, TX 77079
 Contact Name: Kathy Rodriguez, RAS 1273
 Phone: (713) 975-1029
 Email: kathy@statereview.com
 Project # TABS2023011244

BUILDING CODES

BUILDING CODE: 2021 International Building Code
PLUMBING CODE: 2021 International Plumbing Code
MECHANICAL CODE: 2021 International Mechanical Code
ELECTRICAL CODE: 2020 National Electrical Code
FIRE CODE: 2021 International Fire Code
ENERGY CODE: 2021 International Energy Conservation Code
ACCESSIBILITY: 2012 Texas Accessibility Standards

PROJECT DESCRIPTION

PROJECT DESCRIPTION:
 THE SCOPE OF THIS REMODEL PROJECT IS A NON-STRUCTURE INTERIOR REMODEL OF EXISTING WHICH WICH RESTAURANT & UNIVERSITY STORE TO BE CONVERTED TO A CHICK-FIL-A RESTAURANT INVOLVING EQUIPMENT & FINISHES UPDATE. NEW UNISEX RESTROOMS & UNIVERISTY DINING SEATING

BUILDING DATA:
 CONSTRUCTION TYPE: TYPE II-B (NON-COMBUSTIBLE) , FULLY SPRINKLERED (EXISTING)

PROJECT DATA
 AREA: 1805 SF
 OCCUPANCY: RESTAURANT - ASSEMBLY. NO OCCUPANCY CHANGE

OCCUPANCY LOAD:
 OCCUPANCY GROUP A-2
 CHICK-FIL-A 1805 SF / 200 10 PEOPLE

VICINITY MAP **SOUTHWEST REGION**



PROJECT CONTACTS

ARCHITECT
 Mayse & Associates, Inc.
 14881 Quorum Dr., Suite 800
 Dallas, TX 75254
 P: 972.386.0338
 Contact Name: Chris Cooper
 Contact Email: ccooper@mayseassociates.com

OWNER
 University of North Texas
 1115 Union Circle #311040
 Denton, TX 311040
 P. 940.369.8222
 Contact Name: James Callaway, AIA
 Sr. Facilities Planning Manager
 Contact Email: James.Calaway@unt.edu

MECHINCAL, PLUMBING & ELECTRICAL ENGINEER
 RTM Engineering Consultants
 14901 Quorum Dr., Suite 565
 Dallas, TX 75254
 P: 972.987.3500
 Contact Name: David Silva
 Contact Email: david.silva@rtmec.com

KITCHEN CONSULTANT
 TriMark Strategic
 3800 Camp Creek Pkwy SW Bldg 1800
 Suite 114
 Atlanta, GA 30331
 P: 865.545.5220
 Contact Name: Giovannin Ray
 Contact Email: Giovanni.Ray@trimarkusa.com

CHICK-FIL-A CONSTRUCTION CONSULTANT
 Chick-fil-A, Inc.
 5200 Buffington Road,
 Atlanta, GA 30349
 P: 678.575.7238
 Principal Construction Lead, Non-Traditional Restaurants
 Contact Name: Mike Respeto
 Contact Email: michael.respeto1@cfacorp.com



**80307
 LCV LCV**

UNIVERSITY OF NORTH TEXAS

**STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203**

RELOCATION / FRONT COUNTER + KIOSK MOBILE

GENERAL CONSTRUCTION NOTES & INFORMATION

- PRIOR TO START OF CONSTRUCTION, GENERAL CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE SITE TO FIELD VERIFY EXISTING CONDITIONS WITH RESPECT TO THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS INCLUDE BUT ARE NOT LIMITED TO LOCATIONS (DIMENSIONS BOTH VERTICALLY AND HORIZONTALLY), SIZES, AND CONSTRUCTION MAKE-UP OF:
 - STRUCTURAL COLUMNS AND JOISTS
 - DEMISING WALLS
 - ALL UTILITIES
 - ALL WORK SHALL BE IN COMPLIANCE WITH RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS, MANUFACTURERS RECOMMENDATIONS AND ALL OTHER APPLICABLE CODES AND RESTRICTIONS SET FORTH BY ANY LOCAL AGENCY HAVING JURISDICTION. THE ARCHITECT DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR ARCHITECTURAL WORK AND JUDGMENT RENDERED MEET THE STANDARDS OF CARE OF OUR PROFESSION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS A WRITTEN NOTIFICATION FROM THE OWNER OR ARCHITECT TO THE CONTRARY IS RECEIVED.
 - IT SHALL BE THE RESPONSIBILITY OF SUBCONTRACTOR/TRADE TO COORDINATE WITH THE OTHER SUBCONTRACTORS/TRADES. FAILURE TO DO SO, WILL NOT CONSTITUTE GROUNDS FOR A CHANGE ORDER.
 - GENERAL CONTRACTOR TO PATCH AND REPAIR TO "LIKE NEW" ANY AREA THAT IS DISTURBED DURING DEMOLITION AND CONSTRUCTION.
 - DEMOLISH EXISTING CONSTRUCTION WHERE NOTED. PATCH WALLS, CEILING, FLOORING AND BASE AS REQUIRED TO MATCH EXISTING DISPOSE OFF SITE.
 - AS NECESSARY, THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.
 - COORDINATE REUSE, RELOCATION, OR DISPOSAL OF EXISTING EQUIPMENT WITH PROJECT AND FACILITIES MANAGERS AND KITCHEN SHEETS.
 - WHERE EQUIPMENT IS TO BE RELOCATED OR REUSED, EQUIPMENT IS TO BE CLEANED TO "LIKE NEW" CONDITION AND STORED UNTIL REINSTALLATION.
 - ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.
 - PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES.
 - WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURERS' RECOMMENDATIONS AND PROCEDURES.
 - ALL DIMENSIONS SHOWN ARE TO THE FACE OF FINISH, CONTRACTOR SHALL NOTE THAT THESE ARE MINIMUM CLEAR DIMENSIONS REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT SPECIFIED AND ARE CRITICAL ANY DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - WHERE ADJACENT TO OCCUPIED AREAS, G.C. TO PROVIDE A DUST SCREEN/BARRIER AROUND AREAS OF DEMOLITION & NEW WORK SCREEN TO BE CONSTRUCTED OF 2X4'S @ 24" O.C. W/S ML POLYETHYLENE SHEET FROM FIN. FLOOR TO CEILING ABOVE (OR W/CAP.) PROVIDE A "CRASH BAR" @ 30" A.F.F. (2X4 CONT.)
 - ALL WOOD IN CONTACT WITH CONCRETE OR CONCRETE BLOCK TO BE PRESSURE TREATED.
 - INSTALL FLOOR LEVEL EXCEPT WHERE ADJACENT TO DRAIN.
 - ANY QUESTIONS RELATED TO DRAWINGS ARE TO BE REVIEWED WITH CFA ARCHITECT.
 - PROVIDE 5" HIGH BAND OF 1/2" CEMENTITIOUS BOARD AT BASE OF WALLS IN DINING ROOMS (IF AVAILABLE) , AND 12" HIGH AT BASE OF KITCHEN WALLS.FOR ALL WALLS WITH TILE PROVIDE FULL COVERAGE OF CEMENT BOARD SUBSTRATE FROM FLOOR TO THE HEIGHT OF WALL TILE. CEMENTITIOUS BOARD SHALL BE "DUROCK" BY US, GYPSUM.
- * PLEASE REFER TO SHEET F -201 BRANDING & FURNISHING PLAN FOR ALL CFA BRANDING & SIGNAGE ITEMS & KITCHEN EQUIPMENT K-SHEETS FOR ALL KITCHEN EQUIPMENT (PROPRIETARY & PROPRIETARY ITEMS) WHEN ORDERING. SOME EQUIPMENT AS WELL AS FINISHES HAVE A LEAD TIME OF 6-12 WEEKS.

DRAWING INDEX

SHEET INDEX - LCV			
SHEET NO.	SHEET NAME	REVISION #01	REVISION #02
00 GENERAL			
G-000	COVER SHEET	X	X
G-001	GENERAL NOTES		
G-002	CONTEXT PLAN		
G-003	3D PERSPECTIVE		
G-004	3D COLOR RENDERINGS	X	
G-005	RESPONSIBILITY MATRIX & NATIONAL ACCOUNT SCHEDULE		
G-006	ACCESSIBILITY PLAN		
10 ARCH (DEMO)			
D-201	DEMOLITION FLOOR PLAN		
D-221	DEMO RCP		
12 ARCH (PLAN)			
A-201	FLOOR PLAN	X	X
A-211	FINISH FLOOR PLAN	X	
A-212	FINISH SCHEDULE AND DIGITAL MATERIAL BOARD	X	
A-221	REFLECTED CEILING PLAN	X	
A-501	POS HARDWARE TECHNOLOGY PLAN & SCHEDULE	X	
16 ARCH (INTERIOR)			
A-601	INTERIOR ELEVATIONS	X	
A-602	INTERIOR ELEVATIONS		
A-603	INTERIOR ELEVATIONS		X
A-620	INTERIOR DETAILS		
A-701	RESTROOM PLAN & ELEVATIONS	X	
A-801	DOOR AND HARDWARE SCHEDULE	X	
18 ARCH (MILLWORK)			
A-901	MILLWORK CURB PLAN AND DETAILS	X	
A-902	MILLWORK COUNTERTOP PLAN	X	X
A-903	MILLWORK ELEVATIONS		X
A-904	MILLWORK SECTIONS		
19 ARCH (BRANDING)			
F-201	BRANDING AND FURNISHING PLAN AND SCHEDULE	X	
20 KITCHEN			
K-001	GENERAL NOTES		
K-201	KITCHEN EQUIPMENT PLAN	X	
K-202	KITCHEN EQUIPMENT PLAN		
K-601	ELECTRICAL ROUGH-IN ELEVATIONS	X	
K-602	ELECTRICAL ROUGH-IN ELEVATION		
K-611	PLUMBING ROUGH-IN ELEVATIONS		
K-801	EQUIPMENT SCHEDULE	X	
K-802	EQUIPMENT SCHEDULE	X	
K-901	KITCHEN DETAILS		
K-902	KITCHEN DETAILS		
K-903	KITCHEN DETAILS		
K-904	KITCHEN DETAILS		
30 ELECTRICAL			
E0.00	ELECTRICAL NOTES, SYMBOL, COMCHECK	X	
E1.00	LIGHTING FLOOR PLAN	X	
E2.00	POWER FLOOR PLAN	X	
E2.02	ELECTRICALEQUIPMENT SCHEDULE	X	
E3.0	ONE LINE DIAGRAM & PANEL SCHEDULES	X	
E4.0	GENERAL ELECTRICAL SPECIFICATIONS		
40 MECHINCAL			
M0.00	MECHANICALMECHINCAL SPECIFICATIONS		
M1.00	MECHANICAL DEMOLITION PLAN		
M2.00	MECHANICAL FLOOR PLAN	X	
M3.00	MECHANICAL DETAILS		
M4.00	MECHANICAL HOOD PACKAGE		
M4.01	MECHANICAL HOOD PACKAGE		
M4.02	MECHANICAL HOOD PACKAGE		
M4.03	MECHANICAL HOOD PACKAGE		
M4.04	MECHANICAL HOOD PACKAGE		
M4.05	MECH COMCHECK	X	
50 PLUMBING			
P0.00	PLUMBING SPECIFICATIONS		
P0.01	PLUMBING DETAILS		
P0.02	PLUMBING SCHEDULES	X	
P1.01	WASTE AND VENT PLUMBING PLAN	X	
P1.02	WASTE AND GAS PLUMBING PLAN	X	

SHOP DRAWING NOTES

- GENERAL CONTRACTOR IS TO ENSURE THAT SHOP DRAWINGS ARE SUBMITTED TO ARCHITECT OF RECORD CFA CONSULTING ARCHITECT (MAYSE & ASSOC.) FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF PRODUCTION FOR THE FOLLOWING ITEMS:
 - A. MILLWORK
 - B. ELECTRICAL ITEMS
 - a. ELECTRICAL DISCONNECT SWITCHES
 - b. TRANSFORMERS
 - c. PANELS AND SUB-PANELS
 - d. DISTRIBUTION
 - C. KITCHEN EXHAUST SYSTEMS/HOODS
 - D. SIGNAGE
 - E. WALK-IN FREEZER BOX, EVAPORATOR AND CONDENSING UNIT
 - F. OTHER ITEMS IN SPECIFICATIONS.
- ALLOW (5) BUSINESS DAYS FOR REVIEW.



Chick-fil-A

**Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998**

MAYSE & ASSOCIATES, INC.
 Architecture • Planning • Construction Management

14881 Quorum Dr. Suite 800
 Dallas, Texas 75254
 Phone: (972) 386-0338 Fax: (972) 386-0376
 www.MayseAssociates.com



CHICK-FIL-A
UNIVERSITY OF NORTH TEXAS
STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV
2	06.02.2023	UNIT REVIEW REV-2

CONSULTANT PROJECT # 21136
 PRINTED FOR CONSTRUCTION DOCUMENTS
 DATE 6/7/2023 6:31:25 PM
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 SHEET COVER SHEET

SHEET NUMBER **G-000**

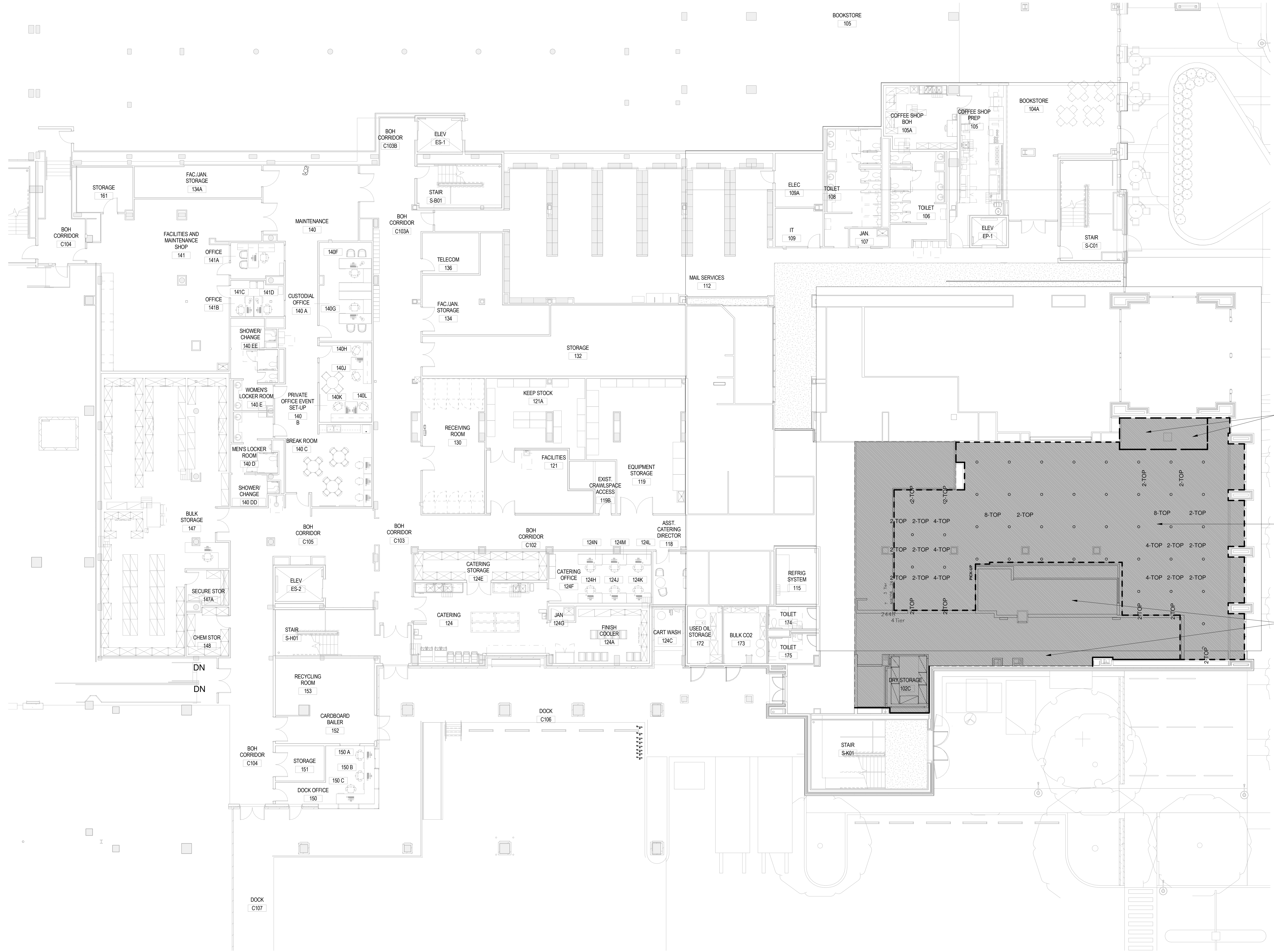
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 6/7/2023 6:31:25 PM
 80307-G-000-COVER SHEET

CONSTRUCTION DOCUMENTS

SYMBOL LEGEND	
	SECTION REFERENCE
	DETAIL REFERENCE
	ELEVATION REFERENCE
	PARTITION REFERENCE
	DOOR REFERENCE
	COLUMN GRID LINES
	ELEVATION DATUM
	REVISION CLOUD AND NUMBER
	PROJECT NORTH ARROW
	CENTERLINE REFERENCE
	DRAWING TITLE/SCALE
	FINISH REFERENCE
	KEYNOTE REFERENCE
	EQUIPMENT REFERENCE
ABBREVIATIONS	
A.F.F. ABOVE FINISHED FLOOR	N.I.C. NOT IN CONTRACT
A.P. ACCESS PANEL	N.T.S. NOT TO SCALE
A.C.P. ACOUSTICAL CEILING PANEL	O.C. OPENING
A.B. ANCHOR BOLT	O.P. OPPOSITE
ARCH. ARCHITECTURAL	O.H. OPPOSITE HAND
A.D. AREA DRAIN	O.A. OVER ALL
B.U. ROD BACK-UP ROD	O.D. OVER HEAD
B.M. BASEMENT	O.S.D. OUTSIDE DIAMETER
B.M. BEARING MARK	O.V. OVERFLOW DRAIN
B.L.G. BLOCKING	O.D. OVER ALL
B.M.T. BOTTOM	P.T.D. PAINTED
B.O.T. BOTTOM	P.L.M. PLASTY LAMINATE
B.L.D. BUILDING	P.P.R. PREFABRICATED
C.I.P. CAST IN PLACE	P.T. PRESSURE TREATED
C.L.G. CEILING	P.L.M.B. PLUMBING
C.E.M. CEMENT	P.W.Y.D. PLYWOOD
C.T.R. CENTER	P.C. PRECAST CONCRETE
C.E.R. CERAMIC TILE	R.E.P. PORTLAND CEMENT
C.O.L. COLUMN	R.A.P. REFLECTED CEILING PLAN
C.O.N.C. CONCRETE	R.E.F. REFER OR REFERENCE
C.M. CONCRETE MASONRY UNIT	R.E.I. REINFORCING
C.O.N.S.T. CONSTRUCTION	R.E.Q. REQUIRED
C.O.N.T.R. CONTROL JOINT	R. RIBSE
C.O.R.D. COORDINATE	R.O. RADIUS
C.O.R.N.E.R. CORNER GUARD	R.W. RED WOOD
D.E.T. DETAIL	R.O.U.G.H. ROUGH OPENING
D.I.A. DIAMETER	S.A.B. SOUND ATTENUATION BLANKET
D.I.M. DIMENSION	S.C.H.E.D.U.L.E. SCHEDULE
D.W.G. DRAWING	S.E.C.T. SECTION
D.W.N. DOWN	S.I.M.I.L.A.R. SIMILAR
E.A. EACH	S.P.E.C. SPECIFICATION
E.L.E.C. ELECTRIC	S.S. STAINLESS STEEL
E.W.C. ELECTRIC WATER COOLER	S.A. STAND PIPE
E.L.E.V. ELEVATION	S.T.D. STANDARD
E.Q.M.T. EQUIPMENT	S.T.L. STEEL
E.X.I.S.T. EXISTING	S.T.R.U.C. STRUCTURAL
E.J. EXPANSION JOINT	S.Y.S. SYSTEM
F.N. FINISH	T.H.K. THICK
F.F. FINISH FLOOR	T.A.G. TONGUE & GROOVE
F.L. FLOOR	T.O.S. TOP OF SLAB
F.P. FLOOR DRAIN	T.O.P. TOP OF STEEL
F.R.P. FIBERGLASS REINFORCED PANELS	T.O.W. TOP OF WALL
G.A.L.V. GALVANIZED	T.S. TRANSITION STRIP
G.L. GRID LINE	T.T.P. TYPICAL
G.A. GAUGE	U.N.O. UNLESS NOTED OTHERWISE
G.E.N. GENERAL	V.E.R.T. VERTICAL
G.Y.P.B.D. GYPSUM BOARD	V.E.S.T.I.B.U.L. VESTIBULE
H.A.R.D.W.A.R.E. HARDWARE	V.W.C. VINYL WALL COVERING
H.W. HARDWARE	V.C.T. VINYL COMPOSITION TILE
H.T. HEIGHT	W.P. WORK POINT
H.M. HOLLOW METAL	W.W.M. WELDED WIRE MESH
H.O.R. HORIZONTAL	W.F. WIDE FLANGE
H.R. HOUR	W.I.T.H. WITH
I.D. INSIDE DIAMETER	W.O. WITHOUT
I.N.S.U.L. INSULATION	W.O.D. WOOD
I.N.T. INTERIOR	W.W.F. WELDED WIRE FABRIC
J.T. JOINT	
L.A.V. LAVATORY	
L.T. LIGHT	
L.O.C. LOCATION	
L.L.H. LONG LEG HORIZONTAL	
L.L.V. LONG LEG VERTICAL	
M.F.R. MANUFACTURER	
M.S. MASONRY	
M.O. MASONRY OPENING	
M.A.X. MAXIMUM	
M.E.P. MECH. ELEC. PLUMB.	
M.E.C.H. MECHANICAL	
M.D.F. MEDIUM DENSITY FIBERBOARD	
M.T.L. METAL	
M.I.N. MINIMUM	
M.I.S.C. MISCELLANEOUS	
M.O.D. MODIFIED	
N.A. NOT APPLICABLE	

STRUCTURAL NOTES																																																													
<p>GENERAL NOTES</p> <ol style="list-style-type: none"> THE G.C. SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS. COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, ANCHORS AND INSERTS. THE G.C. SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PENETRATIONS GREATER THAN 12" ACROSS SHALL BE FRAMED AS SHOWN IN THE ROOF OPENING FRAMING DETAIL. DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILING, ETC. FROM METAL DECKING. <p>DESIGN CRITERIA</p> <ol style="list-style-type: none"> DESIGN SOIL BEARING PRESSURE = 2800 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED PRIOR TO POURING SLAB. 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THICKED SLABS UNDER BEARING WALLS AND COLUMNS SHALL BE POURED MONOLITHIC WITH SLAB. <p>CONCRETE NOTES</p> <ol style="list-style-type: none"> MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: SLAB ON GRADE: 3000 PSI CONCRETE PROPORTIONS SHALL CONSIST OF THE FOLLOWING MATERIALS TO ACHIEVE A MIX DESIGN INFORMATION FOR THAT SPECIFIC MIX, AS PER THE REQUIREMENTS OF CHAPTER 5 OF ACI-318. SUBMISSIONS WITHOUT THIS INFORMATION WILL BE STAMPED "REJECTED" & RETURNED TO THE CONTRACTOR WITHOUT E.O.P. REVIEW. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NECESSARY INFORMATION FOR APPROVAL BEFORE CONSTRUCTION BEGINS. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318. SLAB ON GRADE CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED AT FULL HEIGHT COLUMN LINES AND INTERMEDIATELY SO THAT NO JOINT SPACING SHALL EXCEED 12'-0" O.C. NOR SHALL THE LENGTH OF ANY PANEL EXCEED TWO TIMES THE WIDTH OF THAT PANEL. 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CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS: CONCRETE PLACED AGAINST EARTH - 3" FORMED SURFACES EXPOSED TO EARTH - 2" OVER ALL OTHERS - 1.5" ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPICED BARS SHALL BE SECURELY WIRED TOGETHER. SPICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" WHEREVER POSSIBLE. WELDED WIRE FABRIC, WHERE REQUIRED, SHALL BE PLACED IN THE CENTER OF THE SLAB UNLESS NOTED OTHERWISE. LAP JOINTS ONE WIRE SPACING PLUS 2" OR A MINIMUM 6". EXTEND FABRIC TO WITHIN 1" OF EDGES OF SLABS ON GRADE. PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WWF. <p>METAL STUD NOTES:</p> <ol style="list-style-type: none"> METAL STUD MANUFACTURER SHALL BE A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). METAL STUD STRENGTH CRITERIA: A. GAGES 25 THROUGH 19 - 33 KSI MIN. YIELD STRESS B. GAGES 16 THROUGH 12 - 50 KSI MIN. YIELD STRESS C. RUNNER TRACK - 33 KSI MIN. YIELD STRESS METAL STUD MEMBER DESIGNATION: 600 S 137-33 <table border="1"> <thead> <tr> <th></th> <th>MILS</th> <th>GAUGE</th> </tr> </thead> <tbody> <tr> <td>WEB DEPTH: 600 = 6"</td> <td>18</td> <td>25</td> </tr> <tr> <td>FLANGE WIDTH: 137 = 1.37" (1 3/8")</td> <td>27</td> <td>22</td> </tr> <tr> <td>MIN. THICKNESS IN MILS. (GAUGE)</td> <td>32</td> <td>20</td> </tr> <tr> <td></td> <td>54</td> <td>16</td> </tr> <tr> <td></td> <td>68</td> <td>14</td> </tr> <tr> <td></td> <td>97</td> <td>12</td> </tr> </tbody> </table> <ol style="list-style-type: none"> METAL STUDS AND ACCESSORIES SHALL HAVE A G60 GALVANIZED COATING UNLESS NOTED OTHERWISE. SCREW CONNECTIONS: FASTENING STUD TO STUD: USE #10-16 TKS #3 X 5/8" LONG BY ITW BULDEX OR APPROVED EQUAL UNLESS OTHERWISE NOTED. FASTENING STUD TO MASONRY: USE 1/4" DIA. TAPCON SCREWS BY ITW BULDEX OR APPROVED EQUAL. MIN. 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THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH UTILITIES AND STRUCTURES PRIOR TO ANY EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD. BUILDING IS ASSUMED TO BE FULLY SPRINKLERED PER NFPA 13. PLANS FOR FIRE PROTECTION SPRINKLER PIPING INCLUDING COMPLETE SESMIC SUPPORT DETAILS SHALL BE REVIEWED AND APPROVED BY THE LOCAL FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION FOR COMPLIANCE WITH BOI SECTION 1521 AND PARAGRAPH 13. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PREPARE AND SUBMIT PLANS FOR REVIEW. PROVIDE ILLUMINATED EXIT SIGNS WITH BATTERY BACKUP DESIGNATING EXITS AND WAYS OF TRAVEL THERETO. FIRE PARTITION SHALL BE CONTINUOUS FROM DEMISING WALL TO DEMISING WALL THROUGH THE FIRE RATED WALL TO A FIRE RATED WALL OR A COMBINATION THEREOF: A. INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING, INCLUDING INTERSTITIAL SPACES. B. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICES EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS: C. THE SPACE BETWEEN PENETRATING ITEM AND FIRE PARTITION SHALL BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE WALL PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR UL 1479 FOR FIRE RATING. D. FIRE PARTITIONS SHALL BE EFFECTUALLY AND PERMANENTLY IDENTIFIED WITH 2" STENCILING (AT 8' ON CENTER) ABOVE ANY DECORATIVE CEILING AND CONCEALED SPACES WITH THE FOLLOWING: - HR, FIRE PARTITION (COORDINATE RATING WITH FLOOR PLAN) PROTECT ALL OPENINGS REFER TO OCCUPANCY PLAN FOR TYPE AND LOCATIONS OF FIRE EXTINGUISHERS. ALL FIRE EXTINGUISHERS ARE TO BE MOUNTED WHERE THEY ARE READILY VISIBLE AND ACCESSIBLE. ADDITIONAL UNITS MAY BE REQUIRED TO MEET A 75 FT. TRAVEL DISTANCE LIMITATION. INSTALL IN ACCORDANCE WITH NFPA 101 OR PER LOCAL AUTHORITY. WHEN A BEAM OR COLUMN BECOMES PART OF A FIRE RATED WALL OR CEILING IT MUST BE PROTECTED AND BE FIRE RATED AS IS THE WALL OR CEILING. THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR. FOR A DISTANCE ON EACH SIDE EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR. EVERY INTERIOR AND EXTERIOR DOOR IN THE TENANT SUITE SHALL BE PROVIDED WITH HANDICAP HARDWARE (LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED DEVICES, ETC). PROVIDE CONTINUOUS BLOCKING IN ALL STUD WALLS THAT ARE TO RECEIVE GRAB BARS, TOILET PARTITIONS, TENANT SIGNAGE, FABRIC AWNINGS AND ETC. ALL METAL STUD GAGE DESIGN SHALL BE AS REQUIRED BY PERFORMANCE AND AS INDICATED IN THE DRAWINGS. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES. WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. USE ONLY LEAD-FREE PIPE AND SOLDER FOR DOMESTIC WASTE SYSTEM (SAFE DRINKING WATER ACT OF 1986 AND S.P.C. SECTION 1210.14). ALL EXTERIOR MECHANICAL OPENINGS LARGER THAN 12" X 12" SHALL BE EQUIPPED WITH BURSAR BARS. 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 80307-G-002-CONTEXT PLAN



1 CONTEXT PLAN
 1" = 10'-0"



Chick-fil-A

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 5200 Buffington Road
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 30349-2998

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 www.MayseAssociates.com



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UNIVERSITY OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20-11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

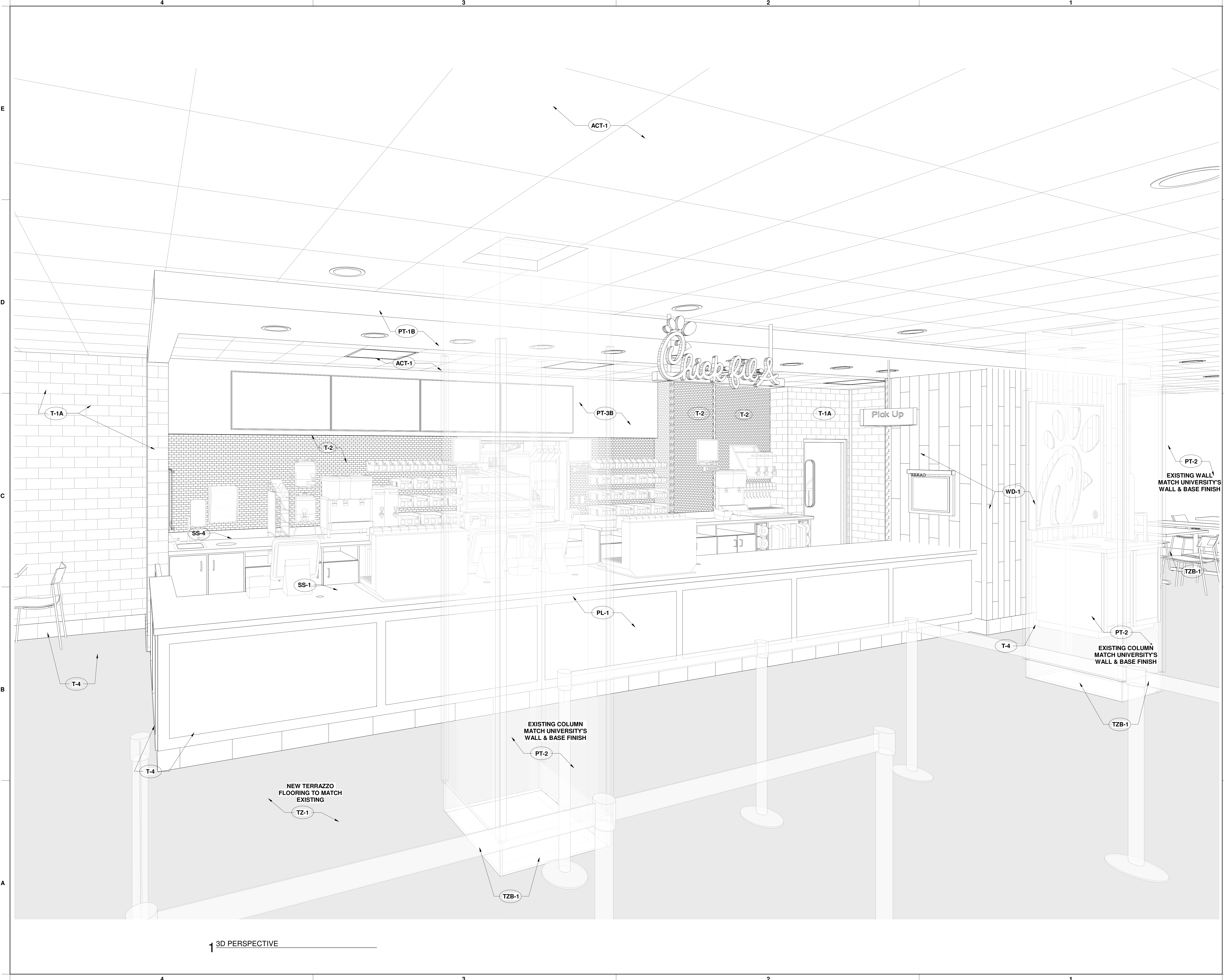
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 SHEET
 CONTEXT PLAN

SHEET NUMBER
G-002

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80307-G-003-3D PERSPECTIVE



1 3D PERSPECTIVE

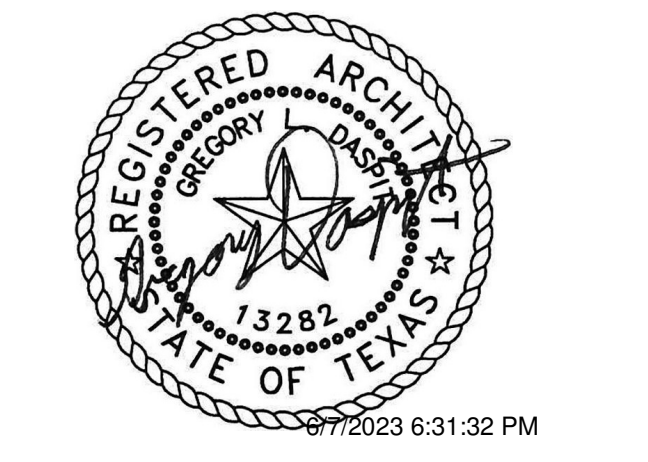


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STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20-11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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SHEET 3D PERSPECTIVE

SHEET NUMBER

G-003

CONSTRUCTION DOCUMENTS

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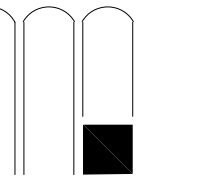
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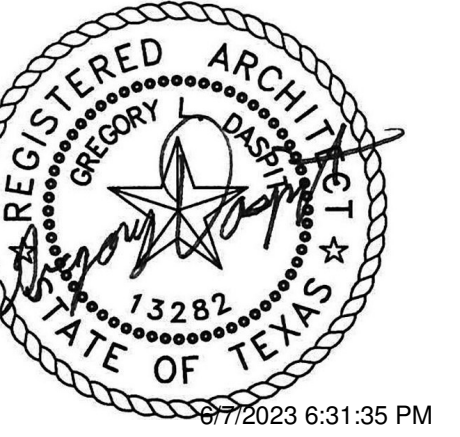
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STUDENT UNION
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LCV#80307

BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20-11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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SHEET 3D COLOR RENDERINGS

CONSTRUCTION DOCUMENTS

SHEET NUMBER

G-004

NOTE: PERSPECTIVE VIEW IS AN ARTISTIC REPRESENTATION OF PROJECT DESIGN INTENT, NOT TO BE USED FOR CONSTRUCTION PURPOSES.

NATIONAL ACCOUNTS SCHEDULE

WT	CSI DIVISION	VENDOR	CONTACT	PHONE	EXT	EMAIL	REMARKS
TERMITE TREATMENT	C02-361	RENTOKIL	JERRY EMMERTON	704-293-1703		JERRY.EMMERTON@RENTOKIL.COM	
IRRIGATION	C02-810	RAINBIRD	DONN MANN	520-904-1146		DMANN@RAINBIRD.COM	
BRICK	C04-810	ACME	MIKE HARRISON	706-984-1446		MHARRISON@BRICK.COM	PLANT LOCATED IN AUSTIN, TX
BRICK	C04-810	GENERAL SHALE	DAVID GILMORE	630-962-4000		DAVID.GILMORE@GENERALSHALE.COM	
BRICK	C04-810	HC MUDDOX	DON SACKETT	702-323-5536		DON.SACKETT@INTERSTATEBRICK.COM	PLANT LOCATED IN SACRAMENTO, CA
BRICK	C04-810	MERIDIAN	JAKE BRADFORD	404-694-8538		JAKE.BRADFORD@MERIDIANBRICK.COM	PLANT LOCATED IN BIRMINGHAM, AL
BRICK	C04-810	MUTUAL MATERIALS	GARY ZAGELOW	800-477-7137		GZAGELOW@MUTUALMATERIALS.COM	PLANT LOCATED IN SPOKAN, WA
BRICK	C04-810	REGLAND BRICK	LUKE OLIVER	412-629-3956		LUKE.OLIVER@GLENGLERY.COM	PLANT LOCATED IN PITTSBURG, PA
EXTERIOR METAL	C05-050	EXCEPTIONAL METALS	JASON DARK	989-397-7481		JDARK@DURO-LAST.COM	METAL PARAPET COPING, FASCIA & SOFFIT AT ROOF TOWER
STRUCTURAL FRAMING	C06-170	RED BUILT	DAVID THOMPSON	877-371-0448		DTHOMPSON@REDBUILT.COM	
WOOD (DECORATIVE)	C06-200	SKYLAR MORGAN	STEPHANIE MORGAN	404-565-0537	EXT. 111	CFAORDERS@SKYLARMORGANFURNITURE.CO	
MILLWORK	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSSCFA.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
MILLWORK	C06-220	FCC	MICHELLE GANSKO	800-322-7328		MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
WOOD (WANSNOTING)	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043	EXT. 235	JASON.MOORE@ACCESSSCFA.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WOOD (WANSNOTING)	C06-220	FCC	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	WEST, SOUTHWEST, AND MIDWEST REGIONS
ROOFING (SINGLE PLYMETAL TRIM)	C07-530	DUROLAST	DAN ERVIN	989-758-1082		DERVIN@DURO-LAST.COM	
EQUIPMENT STANDS (ROOFTOP)	C07-720	AVCOA	STEVE GILNISON	954-584-6001		STEVE@AVCOUSA.COM	
FRP FLUSH / CAGE DOORS	C08-110	SPECIAL LITE W/ ZIGMAN PRODUCTS	RICK ZIEGLER	770-231-8350		ZIGMANPRODUCTS@YAHOO.COM	
STOREFRONT	C08-411	KAWNEER	NORRIS MCELROY	770-235-0240		NORRIS.MCELROY@ARCONIC.COM	ALL REGIONS
STOREFRONT	C08-411	YKK	JAMILLA WALCOTT	678-638-6035		JAMILLAWALCOTT@YKKAP.COM	ALL REGIONS
DRIVE-THRU DOOR	C08-480	TORMAX	DESHARA SOTO	210-494-3551		DSOTO@TORMAXUSA.COM	
DRIVE-THRU WINDOW	C08-580	QUIK SERV	WADE ARNOLD	713-849-5882		WARNOLD@QUIKSERV.COM	
DOORS AND HARDWARE	C08-710	DH PACE	CHARLES GIRTMAN	816-221-0543		CHICKFILADOORS@DHPACE.COM	RE: HARDWARE NOTES ON A-800 - MIDWEST, ATLANTIC, NORTHEAST REGIONS
DOORS AND HARDWARE	C08-710	LOCKNET	ROB OWEN	606-748-2065		ROBOW@LOCKNET.COM	RE: HARDWARE NOTES ON A-800 - WEST, SOUTHWEST, SOUTHEAST REGIONS
GROUT	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
GROUT	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DAL TILE.COM	WEST REGION ONLY
FILE	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
FILE	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DAL TILE.COM	WEST REGION ONLY
FLOORING (PLAYGROUND)	C09-330	PROJECT INNOVATIONS, INC.	PETE GRIFFIN	727-938-4422		PROJECT.INNOVATIONS@GMAIL.COM	ORDER THROUGH SOFT PLAY
FLOORING (PLAYGROUND)	C09-330	THE PLAYGROUND GUYS	ROB FABENT	773-483-7770		THEPLAYGROUNDGUYS@GMAIL.COM	ORDER THROUGH SOFT PLAY
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
CEILING TILE/GRID	C09-510	CERTAINTED CORPORATIONS	BERNIE SHALVEY	704-779-7337		BERNARD.G.SHALVEY@SAINT-GOBAIN.COM	
FRP PANELS (KITCHEN)	C09-770	MARLITE	ANITA CRAIG	330-260-7621		ACRAIG@MARLITE.COM	
PAINT (INTERIOR)	C09-910	SHERWIN WILLIAMS	MATTHEW HEALD	404-323-2263		MATTHEW.J.HEALD@SHERWIN.COM	
CORNER GUARDS	C10-265	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
EXTERIOR SIGNS	C10-420	ANCHOR SIGN	JOSHUA MICKELVANEY	843-576-3275		JMICKELVANEY@ANCHORSIGN.COM	
EXTERIOR SIGNS	C10-420	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
EXTERIOR SIGNS	C10-420	CLAYTON SIGNS	TODD WILLIS	404-361-3800	EXT. 428	TODDWILLIS@CLAYTONSIGNS.COM	
EXTERIOR SIGNS	C10-420	NATIONAL SIGN & MARKETING	STEVE ROSENBLUM	909-287-7369		SROSENBLUM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	AWNEX INC.	THEY HERNDON	770-704-7140	EXT. 113	TREY@AWNEXINC.COM	MIDWEST AND NORTH EAST REGION
BUILDING CANOPY	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
BUILDING CANOPY	C10-440	NATIONAL SIGN & MARKETING	STEVE ROSENBLUM	909-287-7369		SROSENBLUM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILANUNISTRUCTURES.COM	SOUTHEAST AND ATLANTIC REGION
DRIVE-THRU ORDER AREA CANOPY (FABRIC)	C10-440	SUPERIOR INNOVATION, INC.	BRUCE BARKER	615-410-5463		BRUCE.BARKER@SIIBRANDS.COM	ARID CLIMATES ONLY
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	FASHION, INC.	ALLEN BELL	785-418-4656		ABELL@FASHIONINC.COM	NORTHEAST, ATLANTIC, AND SOUTHEAST REGIONS
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	LANE SUPPLY, INC.	LARRY TOLBERT	704-645-7015		LTOLBERT@LANESUPPLYINC.COM	WEST, MIDWEST, AND SOUTHWEST REGIONS
FANS	C10-440	TOM BARRROW COMPANY/ TPI	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARRROW.COM	
HEATERS	C10-440	TOM BARRROW COMPANY/SCHWANK	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARRROW.COM	
ORDER POINT & CLEARANCE BAR	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	
ORDER POINT & CLEARANCE BAR	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILANUNISTRUCTURES.COM	SOUTHWEST REGION
WALL PARTITIONS (BATH)	C10-810	CLAYTON FIXTURE (CFX)	STEVE SAMUELSON	404-684-8783		CHICKFILAB@CLAYTONFIXTURE.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WALL PARTITIONS (BATH)	C10-810	DH PACE	CHARLES GIRTMAN	816-221-0543		CHICKFILADOORS@DHPACE.COM	
WALL PARTITIONS (BATH)	C10-810	FCC	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	
WALL PARTITIONS (BATH)	C10-810	LOCKNET	ROB OWEN	606-748-2065		ROBOW@LOCKNET.COM	
PLAYGROUND EQUIPMENT	C10-900	SOFT PLAY	NED O'BRIEN	678-966-9141		N.OBRIEN@COMCAST.NET	ALL REGIONS
EQUIPMENT (KITCHEN)	C11-000	STRATEGIC / TRIMARK	MITCH WELCH	404-765-8985	EXT. 3700	MWELCH@STRATEGICEQUIPMENT.COM	
POS SYSTEMS	C11-020	CHICK-FIL-A IT	SCOTT SKIPPER	404-684-8524			
POS WIRING AND SECURITY	C11-020	STRONG SECURITY	CHRIS VERCH	678-372-5949		CHRIS.VERCH@STRONGSYSTEM.COM	
ROLLER SHADES	C12-500	BB COMMERCIAL	ANGELA CARSWELL	949-404-1140		ANGELA.CARSWELL@QBHFC.COM	
ROLLER SHADES	C12-500	CWC GROUP	RICHARD PELL	366-413-0394		RPELL@COMMERCIALWINDOWCOVERING.COM	
ROLLER SHADES	C12-500	ROLLASHADE	DEANNA MCCOY	951-245-5077	EXT. 116	DEANNA.MCCOY@ROLLASHADE.COM	ADDITIONAL EMAIL: OFFICE@ROLLASHADE.COM
INTERIOR SEATING/ DECOR	C12-540	CHARTER HOUSE INNOVATIONS (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS (EXCLUDING DEX COUNTERS)
INTERIOR SEATING/ DECOR	C12-540	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION (EXCLUDING DEX COUNTERS)
DEX TABLES & COUNTERS (WHEN REQ'D.)	C12-560	DEX INDUSTRIES	SHANNON PHILLIPS	404-753-0600		CUSTOMERSERVICE@DEXINDUSTRIES.COM	
EXTERIOR SEATING/ UMBRELLAS	C12-570	STRATEGIC / TRIMARK	HAYLEY BOYD	229-903-3678		HAYLEY.BOYD@TRIMARKUSA.COM	
MESSAGING (INTERIOR)	C12-610	CHARTER HOUSE INNOVATIONS (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
MESSAGING (INTERIOR)	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION & SOUTHWEST
STEEL WALL FABRICATION	C12-610	CHARTER HOUSE INNOVATIONS (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
STEEL WALL FABRICATION	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	WEST & SOUTHWEST REGION
PLUMBING (RESTROOM FIXTURES)	C15-100	HJC DIST. (TOTO, USA)	BARRY BRYANT	800-459-7099		BARRY.BRYANT@HJINC.COM	TOTO VALVES & FIXTURES
MOP SINK GRATE & TRIM	C15-405	LOWTEMP	ANGIE NORRIS	770-478-8903		ANORRIS@LOWTEMPIND.COM	
AIR DOORS	C15-715	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SERGEORGE@TOMBARRROW.COM	
HVAC EQUIPMENT	C15-730	LENNOX NATIONAL ACCOUNTS	TERRY BUCHANAN	678-446-7554		TERRY.BUCHANAN@LENNOXIND.COM	
AIR DEVICES	C15-836	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SERGEORGE@TOMBARRROW.COM	
FANS & CURBS (EXHAUST)	C15-836	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SERGEORGE@TOMBARRROW.COM	
HOODS & PIN & SLEEVE BOXES	C15-836	HALTON USA	PHIL MEREDITH	800-442-5886		PHIL.MEREDITH@HALTON.COM	
JER-AIR START COLLARS	C15-836	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SERGEORGE@TOMBARRROW.COM	
CONTROLS	C16-200	SUNCOAST ENVIRONMENTAL	JASON COX	877-544-6679		SECONTROLS@AOL.COM	
PANELBOARDS	C16-200	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, SOUTHWEST, & WEST REGIONS
LIGHTING	C16-500	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, NORTHEAST, SOUTHWEST, & WEST REGIONS
DIGITAL MENU BOARDS	C16-610	CINEPLEX DIGITAL MEDIA (CDM)	JASON PEREIRA	228-919-7698		CFA-ACCOUNT@CINEPLEX.COM	PLACE ORDER ONLINE AT https://tinyurl.com/CFADigitalmenuboardprogram

RESPONSIBILITY MATRIX NOTES

- IF AN ITEM IS NOT INDICATED ON THE RESPONSIBILITY SCHEDULE, THE GENERAL CONTRACTOR (GC) SHALL INCLUDE IT IN THE BID UNLESS OTHERWISE NOTED IN THE DRAWINGS.
- THE FOLLOWING ARE ABBREVIATIONS:
FSP = FOOD SERVICE PROVIDER / TENANT
GC = GENERAL CONTRACTOR

LICENSED RESPONSIBILITY MATRIX

ITEM DESCRIPTION	DOES NOT APPLY EXIST. TO REMAIN	FURNISHED BY			INSTALLED BY			NOTES
		GC	FSP	NATIONAL ACCOUNT VENDOR	GC	FSP	NATIONAL ACCOUNT VENDOR	
01 GENERAL CONSTRUCTION								
NEW PARTITIONS		X			X			
STRUCT. & MISC. STEEL FRAMING		X			X			AS REQUIRED, FOR RTU, MUAU, HOODS
GYP. BD CEILING AND SOFFITS		X			X			
LAY-IN CEILING		X			X			
ACCESS PANELS (IN CEILING)		X			X			AS REQUIRED
DOOR AND HARDWARE		X			X			
SECURITY GRILLE		X			X			
PAINTING		X			X			
S.S. CORNER GUARDS		X			X			
METAL REVEALS AND TRIM		X			X			
ROOF PENETRATIONS AND PATCHES		X			X			LANDLORD'S ROOF CONTRACTOR MUST BE USED
F.R.P PANELING IN KITCHEN		X			X			
WATERPROOF MEMBRANE		X			X			
FIRESTOPPING		X			X			
FLOOR TILE/BASE/GROUT		X			X			ORDER FROM NATIONAL ACCOUNT VENDOR
WALL TILE/GROUT		X			X			ORDER FROM NATIONAL ACCOUNT VENDOR
WANSNOTING	X				X			ORDER FROM NATIONAL ACCOUNT VENDOR; SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL
MILLWORK				X	X			
02 ELECTRICAL								
CONDUIT TO SPACE		X			X			
ELEC. FEEDERS TO SPACE		X			X			
ELEC. PANELS		X			X			
ELEC. DISCONNECT SWITCHES		X			X			
TRANSFORMERS		X			X			
SUB-PANELS		X			X			
DISTRIBUTION		X			X			
TELE. CONDUIT & WIRING		X			X			
ELEC. RECEPTACLES		X			X			
EXIT & EMER LIGHTING		X			X			
LIGHTING FIXTURES		X			X			
BRAND LIGHTING		X			X			ORDER FROM NATIONAL ACCOUNT VENDOR
SIGNAGE ELEC. CONNECTIONS		X			X			
03 FIRE ALARM/LIFE SAFETY								
SMOKE DETECTORS		X			X			
FIRE SPRINKLER SYSTEM		X			X			
SPRINKLER HEAD COVER FINISH		X			X			FACTORY FINISH TO MATCH CEILING
STROBE LIGHTS		X			X			
SYSTEM SPEAKERS		X			X			
WIRING FOR ALL ABOVE		X			X			
FIRE EXTINGUISHERS		X			X			
SYSTEM DESIGN & PERMIT		X			X			
04 MECHANICAL SYSTEMS								
HVAC HEATING AND COOLING EQUIPMENT		X			X			CONFIRM WITH MECH SYSTEM
DUCTWORK DISTRIBUTION		X			X			
DIFFUSERS/RETURNS		X			X			FACTORY FINISH TO MATCH CEILING
THERMOSTATS		X			X			
CONTROL WIRING		X			X			
DAMPERS		X			X			AS REQUIRED
EXHAUST FANS		X			X			
MAKE UP AIR UNITS		X			X			
EQUIPMENT SUPPORTS AT ROOF		X			X			CURBS AND/OR PLATFORMS
KITCHEN EXHAUST SYSTEMS/HOODS		X		X	X			



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 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

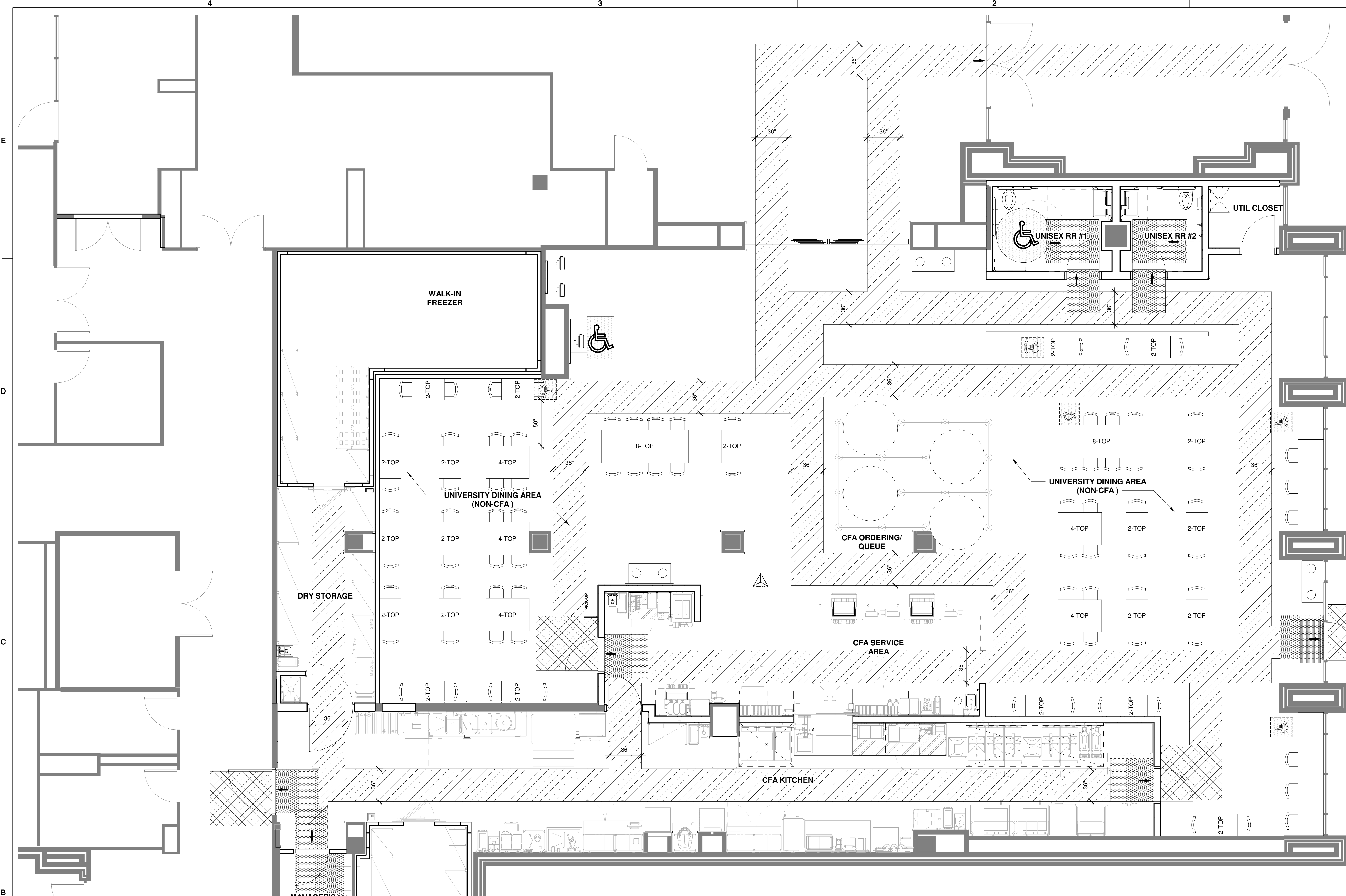
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136
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ACCESSIBILITY PLAN

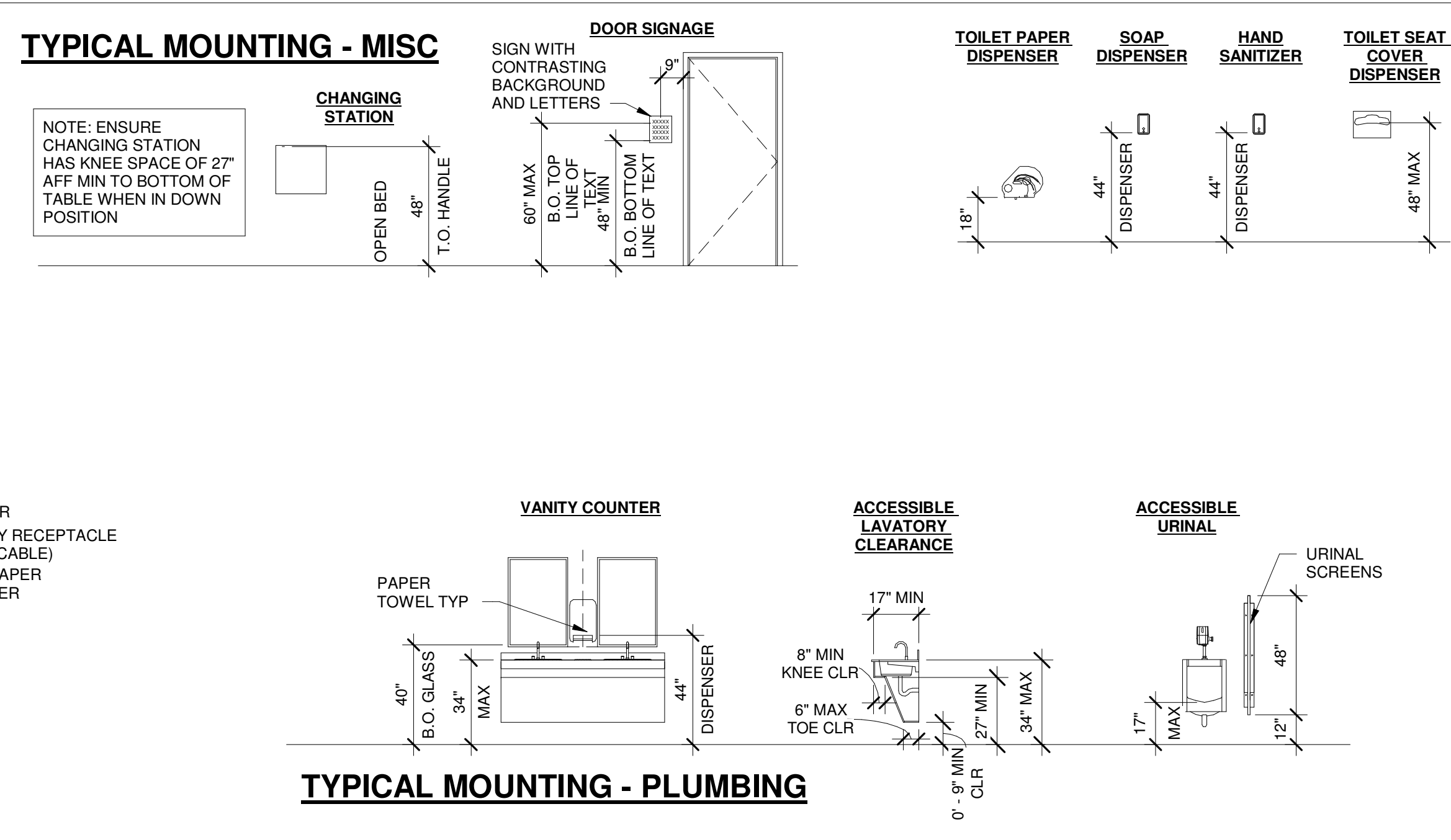
SHEET NUMBER
G-006

ACCESSIBILITY NOTES

- ALL ACCESSIBLE ELEMENTS ARE TO BE INSTALLED ACCORDING TO THE STANDARDS AND REQUIREMENTS SET FORTH BY THE ACCESSIBILITY CODE LISTED IN THE CODE DATA.
- FOR CLARIFICATION OF REQUIREMENTS OR QUESTIONS, CALL THE ARCHITECT OF RECORD.
- ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%.
- ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F.
- ALL FLOOR DRAINS IN KITCHEN SHALL BE LOCATED OUT OF PATH OF TRAVEL SO THAT THE FLOOR DOES NOT HAVE A SLOPE GREATER THAN 2% ALONG AN ACCESSIBLE ROUTE.
- ALL THRESHOLDS, FLOOR LEVEL CHANGES, AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
- ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. U.N.G.
- ICC/ANSI A117.1-2003 403.5 ALLOWS A REDUCTION IN AN ACCESSIBLE PATH: 32" MIN WIDTH FOR NO MORE THAN 24" ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
- FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
- COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS.
- IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.



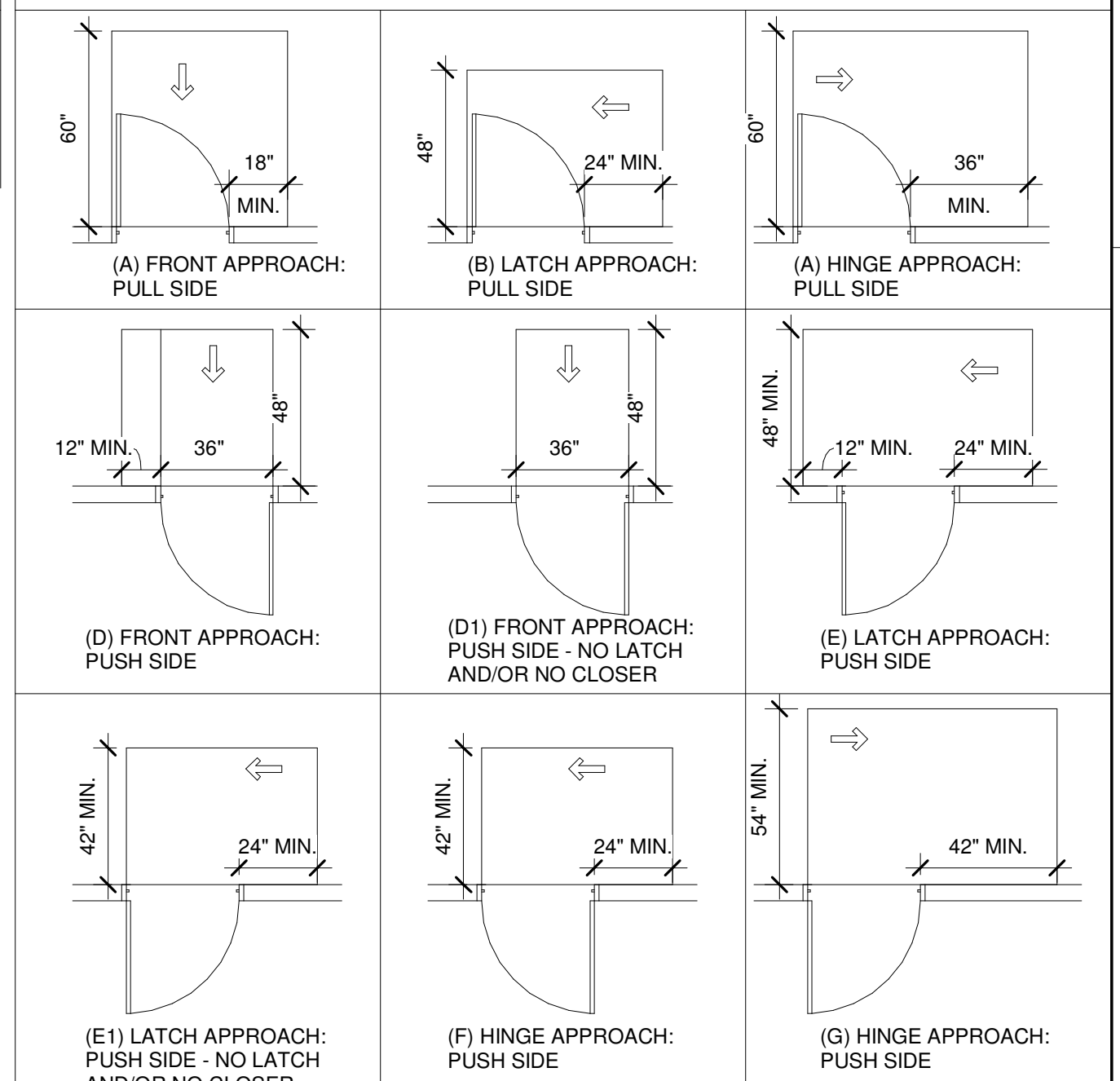
ACCESSIBILITY REQUIREMENTS



ACCESSIBILITY LEGEND

- CLEAR FLOOR SPACE AT FIXTURES
- MANEUVERING CLEARANCE AT DOORS
- 5'-0" CLEAR AND LEVEL SPACE AT DOORS (EXTERIOR) 2% SLOPE OR LESS SLOPE /CROSS SLOPE
- 36" MIN. CLEAR ACCESSIBLE ROUTE
- 44" REQUIRED EGRESS PATH
- 30" X 48" WHEEL CHAIR SPACE
- 5'-0" TURNING RADIUS
- DOOR APPROACH

DOOR APPROACH SCHEDULE

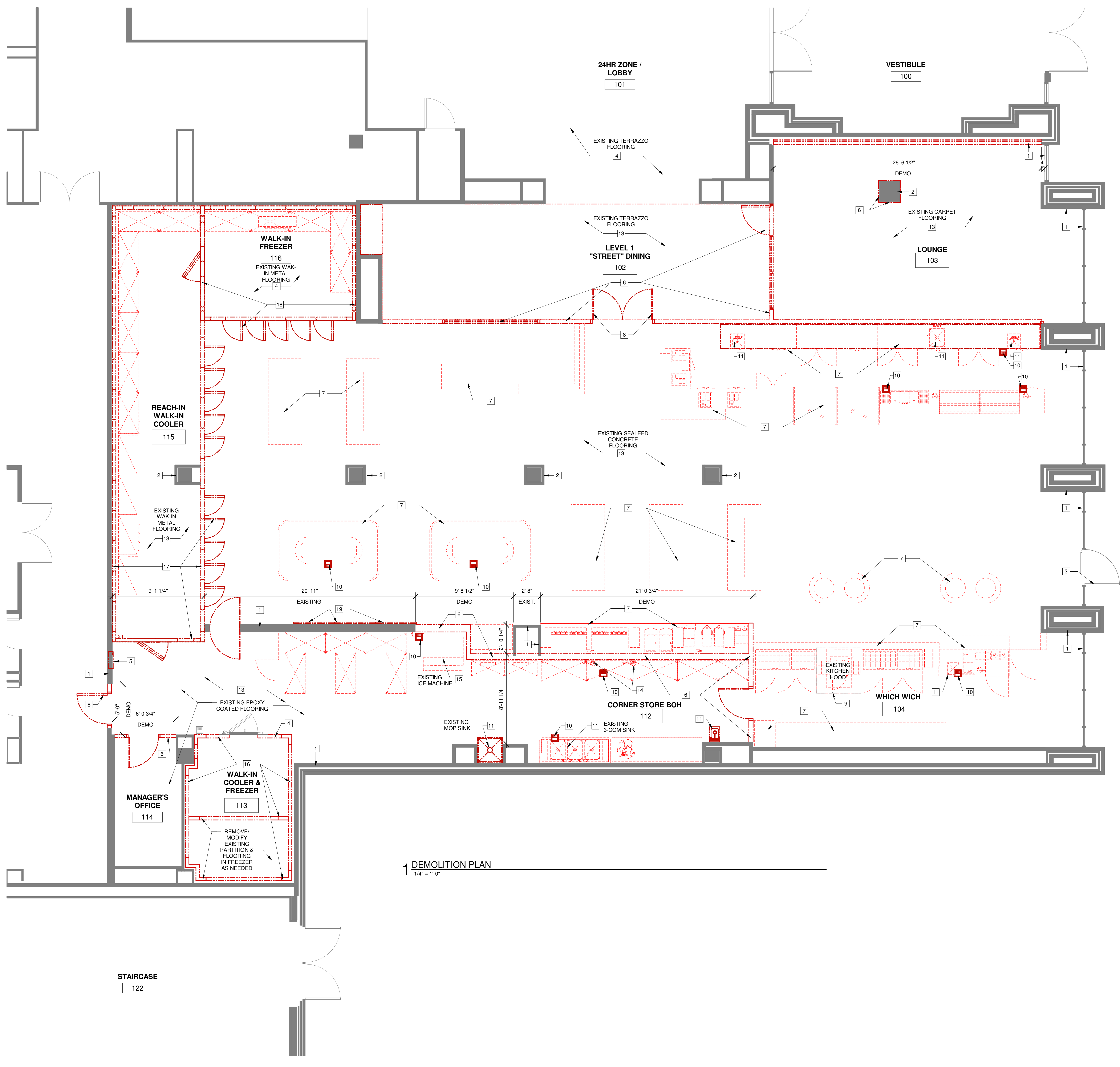


1 ACCESSIBILITY PLAN
 1/4" = 1'-0"

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 80307-G-006-ACCESSIBILITY PLAN

CONSTRUCTION DOCUMENTS

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 80307-D-201-DEMOLITION FLOOR PLAN



1 DEMOLITION PLAN
 1/4" = 1'-0"

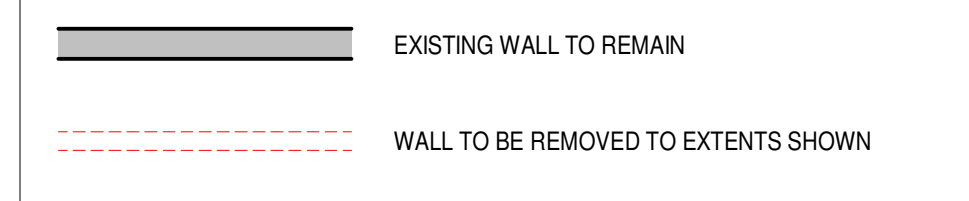
GENERAL NOTES: DEMOLITION

- PRIOR TO START OF CONSTRUCTION, GENERAL CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE SITE TO FIELD VERIFY EXISTING CONDITIONS WITH RESPECT TO THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS INCLUDE BUT ARE NOT LIMITED TO LOCATIONS (DIMENSIONS BOTH VERTICALLY AND HORIZONTALLY), SIZES, AND CONSTRUCTION MAKE-UP OF:
 - STRUCTURAL COLUMNS AND JOISTS
 - DEMISING WALLS
 - ALL UTILITIES
 G.C. IS TO NOTIFY ARCHITECT AND PROJECT MANAGER IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN OR IF THERE ARE ANY DISCREPANCIES OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS AS SOON AS POSSIBLE.
- ALL WORK SHALL BE IN COMPLIANCE WITH RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS, MANUFACTURERS RECOMMENDATIONS AND ALL OTHER APPLICABLE CODES. THE ARCHITECT DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR ARCHITECTURAL WORK AND JUDGMENT RENDERED MEET THE STANDARDS OF CARE OF OUR PROFESSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS A WRITTEN NOTIFICATION FROM THE OWNER OR ARCHITECT TO THE CONTRARY IS RECEIVED. IT SHALL BE THE RESPONSIBILITY OF SUBCONTRACTOR/TRADE TO COORDINATE WITH THE OTHER SUBCONTRACTORS/TRADES. FAILURE TO DO SO, WILL NOT CONSTITUTE GROUNDS FOR A CHANGE ORDER.
- GENERAL CONTRACTOR TO PATCH AND REPAIR TO "LIKE NEW" ANY AREA THAT IS DISTURBED DURING DEMOLITION AND CONSTRUCTION.
- AS NECESSARY, THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.
- COORDINATE REUSE, RELOCATION, OR DISPOSAL OF EXISTING EQUIPMENT WITH PROJECT AND FACILITIES MANAGERS AND KITCHEN SHEETS. WHERE EQUIPMENT IS TO BE RELOCATED OR REUSED, EQUIPMENT IS TO BE CLEANED TO "LIKE NEW" CONDITION AND STORED UNTIL REINSTALLATION.
- ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.
- PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES.
- WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.

GENERAL NOTES: DEMOLITION

- COORDINATE ALL DEMOLITION WITH FACILITIES MANAGEMENT
- ALL DEMOLITION WORK TO COMPLY WITH CONSTRUCTION PROCEDURES AND REGULATIONS AS SET FORTH BY LOCATION IN WHICH WORK IS BEING DONE.
- COVER RETURN AIR DUCTS AS NECESSARY BEFORE AND DURING CONSTRUCTION.
- DO NOT ABANDON ANY UTILITIES WITHIN SPACE. REMOVE ALL UTILITIES CONNECTED TO ITEMS TO BE DEMOLISHED UNLESS OTHERWISE NOTED. COORDINATE WITH FIELD CONDITIONS AND PROJECT AND FACILITY MANAGERS, CAP AND SEAL OFF ANY PLUMBING PENETRATIONS AS NECESSARY. DO NOT ABANDON ANY UTILITIES OR MATERIALS WITHIN SPACE - REMOVE BACK TO THE SOURCE.
- GENERAL CONTRACTOR TO DISPOSE OF ALL CONSTRUCTION DEBRIS OR EQUIPMENT IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- GENERAL CONTRACTOR TO REMOVE AND/OR RELOCATE ANY FIRE EQUIPMENT AS NECESSARY TO SATISFY LOCAL JURISDICTION FOR LENGTH OF DEMOLITION AND CONSTRUCTION PERIOD.
- ALL EXISTING EQUIPMENT TO BE REMOVED DURING DEMOLITION. EQUIPMENT NUMBERED IS INTENDED FOR REUSE. STORE DURING DEMOLITION AND CONSTRUCTION; CLEAN TO "LIKE NEW" CONDITION.
- ALL EXISTING LIGHTING TO BE REUSED. REMOVE DURING DEMOLITION; REPLACE IN NEW LOCATION DURING CONSTRUCTION.
- ALL HVAC DIFFUSERS TO BE REUSED. REMOVE DURING DEMOLITION; REPLACE IN NEW LOCATION DURING CONSTRUCTION.
- ALL EXISTING FLOOR DRAINS AND SINKS TO REMAIN UNLESS NOTED OTHERWISE.
- ALL EXISTING CEILING GRID, TILE AND SOFFITS TO BE REMOVED UNLESS NOTED OTHERWISE.
- ALL SPRINKLER MAINS TO REMAIN UNLESS NOTED OTHERWISE. SPRINKLER HEADS TO BE RELOCATED AS NECESSARY TO ACCOMMODATE NEW HEIGHT.

WALL TYPE LEGEND



D-201 - KEY NOTES - DEMOLITION PLAN

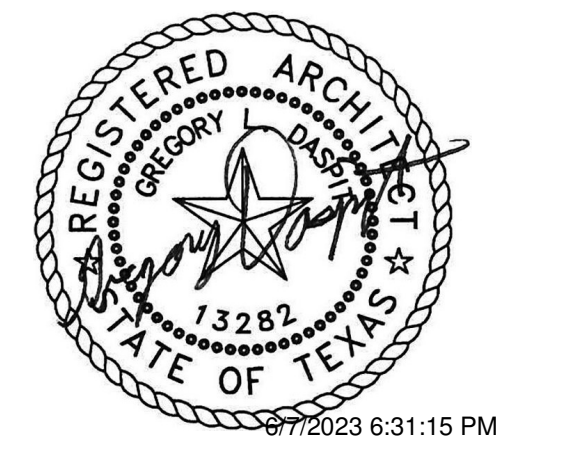
MARK	NOTES
1	EXISTING WALL SYSTEM TO REMAIN; MODIFY AS NECESSARY TO PROVIDE FOR NEW UTILITIES AND BLOCKING - COORDINATE WITH DETAILS AND KITCHEN SHEETS. PATCH/REPAIR AS REQUIRED TO BRING TO "LIKE NEW" CONDITION
2	EXISTING COLUMN TO REMAIN. REMOVE &/OR PREPARE FOR NEW FINISHES & PROTECT DURING CONSTRUCTION. G.C. TO VERIFY SIZE AND LOCATION PRIOR TO START OF CONSTRUCTION; NOTIFY ARCHITECT AND PROJECT AND FACILITIES MANAGERS OF ANY DISCREPANCIES
3	EXISTING DOOR TO REMAIN. PROVIDE PROTECTION DURING DEMOLITION AND CONSTRUCTION
4	EXISTING FLOOR FINISHES TO REMAIN. PROTECT DURING CONSTRUCTION.
5	REMOVE/RELOCATE EXISTING ELECTRICAL PANEL; PROTECT DURING DEMOLITION AND CONSTRUCTION. RE. ELECTRICAL
6	REMOVE EXISTING WALL(S) TO EXTENTS SHOWN; PREP FLOOR BELOW FOR NEW FINISH
7	REMOVE EXISTING MILLWORK & EQUIPMENT. PROTECT ALL EQUIPMENT DURING CONSTRUCTION & CONSTRUCTION & RETURN TO UNIVERSITY.
8	REMOVE EXISTING DOOR AND FRAME; PREP ADJACENT WALL FOR INFILL; REMOVE TILE IN OPENING
9	REMOVE EXISTING HOOD; REMOVE ASSOCIATED POWER AND DUCT WORK PER ENGINEERING PLANS
10	REMOVE EXISTING FLOOR DRAIN SINK & CAP OFF PLUMBING AS NEEDED RE. PLUMBING
11	REMOVE EXISTING PLUMBING FIXTURE. REMOVE ASSOCIATED PLUMBING BACK TO MAIN AND CAP IF NOT SCHEDULED FOR REUSE.
12	REMOVE EXISTING WALL FINISHES & SHEATHING TO EXTENTS SHOWN; PREP NEW WALL FRAMING, SHEATHING & FINISHES.
13	REMOVE EXISTING FLOOR FINISHES TO EXTENTS SHOWN; PREP FLOORING FOR NEW FINISHES.
14	REMOVE EXISTING WATER FILTRATION SYSTEM. REFER TO KITCHEN EQUIPMENT & PLUMBING.
15	REMOVE/RELOCATE EXISTING ICE MAKER. REFER TO KITCHEN EQUIPMENT DRAWINGS OR FSP FOR POSSIBLE RELOCATION.
16	EXISTING WALK-IN COOLER & FREEZER TO BE MODIFIED FOR WALK-IN COOLER ONLY; PROTECT DURING DEMOLITION AND CONSTRUCTION
17	REMOVE EXISTING WALK-IN FREEZER. PROTECT DURING DEMOLITION AND CONSTRUCTION & PREP FOR NEW DRY STORAGE AREA.
18	MODIFY EXISTING WALK-IN FREEZER FOR CFA & SHARED LOCATION CAPACITY. PROTECT DURING DEMOLITION AND CONSTRUCTION.
19	REMOVE & REINSTALL EXISTING LED MULTIPLE SCREEN VIDEO WALL. REFER ELECTRICAL.



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LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

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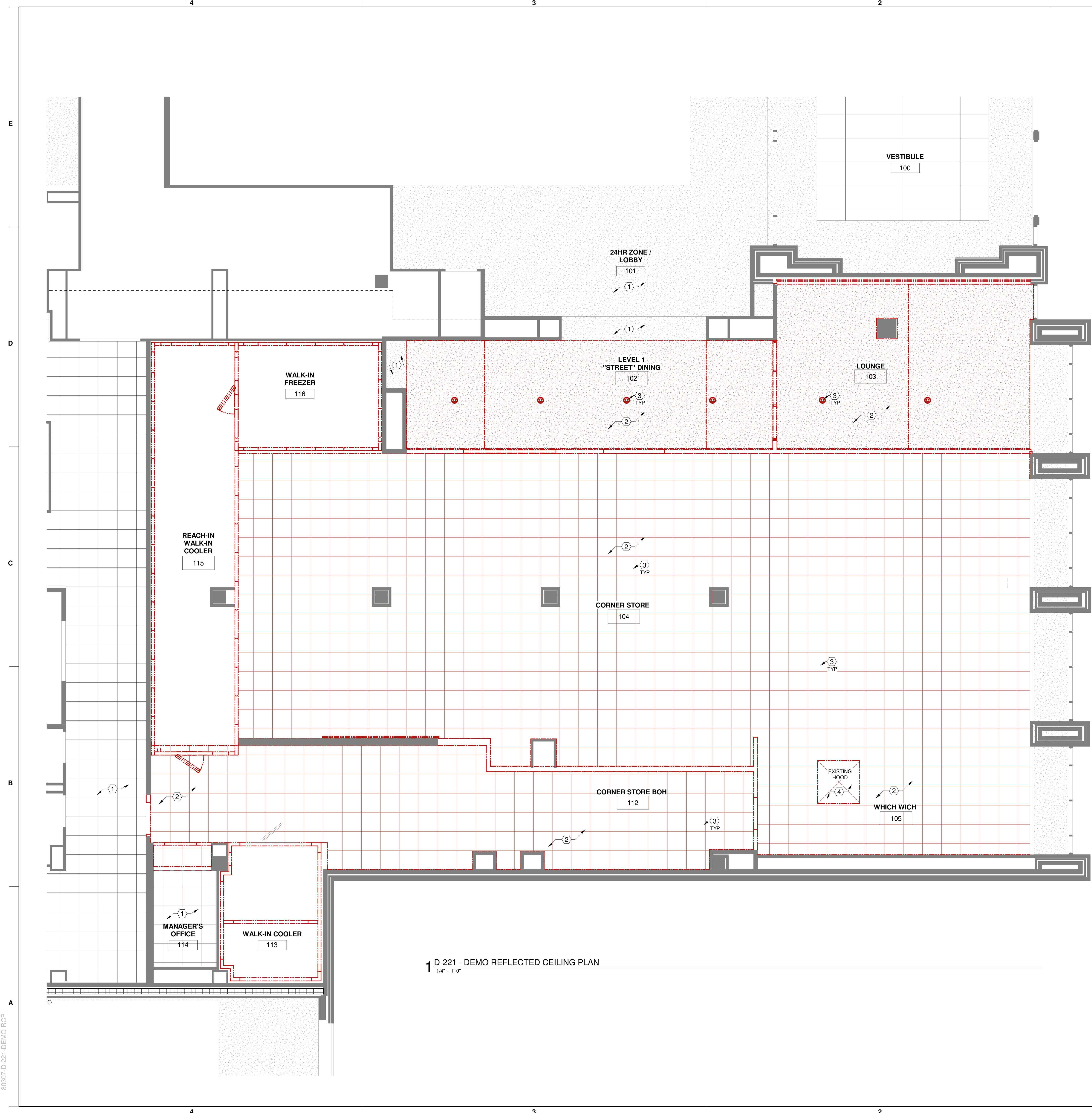
SHEET DEMOLITION FLOOR PLAN

SHEET NUMBER

D-201

CONSTRUCTION DOCUMENTS

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 80307-D-221-DEMO RCP



GENERAL NOTES: DEMOLITION

1. PRIOR TO START OF CONSTRUCTION, GENERAL CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE SITE TO FIELD VERIFY EXISTING CONDITIONS WITH RESPECT TO THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS INCLUDE BUT ARE NOT LIMITED TO LOCATIONS (DIMENSIONS BOTH VERTICALLY AND HORIZONTALLY), SIZES, AND CONSTRUCTION MAKE-UP OF:
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 3. ALL UTILITIES
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2. ALL WORK SHALL BE IN COMPLIANCE WITH RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS, MANUFACTURERS RECOMMENDATIONS AND ALL OTHER APPLICABLE CODES. THE ARCHITECT DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR ARCHITECTURAL WORK AND JUDGMENT RENDERED MEET THE STANDARDS OF CARE OF OUR PROFESSION.
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6. COORDINATE REUSE, RELOCATION, OR DISPOSAL OF EXISTING EQUIPMENT WITH PROJECT AND FACILITIES MANAGERS AND KITCHEN SHEETS. WHERE EQUIPMENT IS TO BE RELOCATED OR REUSED, EQUIPMENT IS TO BE CLEANED TO "LIKE NEW" CONDITION AND STORED UNTIL REINSTALLATION.
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6. GENERAL CONTRACTOR TO REMOVE AND/OR RELOCATE ANY FIRE EQUIPMENT AS NECESSARY TO SATISFY LOCAL JURISDICTION FOR LENGTH OF DEMOLITION AND CONSTRUCTION PROCESS.
7. ALL EXISTING EQUIPMENT TO BE REMOVED DURING DEMOLITION. EQUIPMENT NUMBERED IS INTENDED FOR REUSE; STORE DURING DEMOLITION AND CONSTRUCTION; CLEAN TO "LIKE NEW" CONDITION.
8. ALL EXISTING LIGHTING TO BE REUSED. REMOVE DURING DEMOLITION; REPLACE IN NEW LOCATION DURING CONSTRUCTION.
9. ALL HVAC DIFFUSERS TO BE REUSED. REMOVE DURING DEMOLITION; REPLACE IN NEW LOCATION DURING CONSTRUCTION.
10. ALL EXISTING FLOOR DRAINS AND SINKS TO REMAIN UNLESS NOTED OTHERWISE.
11. ALL EXISTING CEILING GRID, TILE AND SOFFITS TO BE REMOVED UNLESS NOTED OTHERWISE.
12. ALL SPRINKLER MAINS TO REMAIN UNLESS NOTED OTHERWISE. SPRINKLER HEADS TO BE RELOCATED AS NECESSARY TO ACCOMMODATE NEW HEIGHT.

DEMO RCP LEGEND:

--- EXISTING TO BE REMOVED

KEY NOTES - DEMOLITION RCP

- 01 EXISTING CEILING, LIGHTS, AND MECHANICAL DIFFUSER TO REMAIN.
- 02 REMOVE EXISTING CEILING TO LIMITS INDICATED. PREPARE FOR NEW WALL INSTALLATION. PROVIDE NEW LAY-IN CEILING AT SAME HEIGHT.
- 03 REMOVE/RELOCATE EXISTING LIGHT FIXTURES. PREPARE FOR NEW LIGHTS. REFER TO ELECTRICAL LIGHTING PLAN. EXISTING LIGHTING IS TO BE SAVED IN EXISTING WORKING CONDITION & PROVIDED TO OWNER.
- 04 EXISTING HOOD TO BE REMOVED; PATCH & REPAIR CEILING TO MATCH EXISTING. COORDINATE SUSPENSION WITH STRUCTURE ABOVE; COORDINATE WITH MECHANICAL SHEETS.

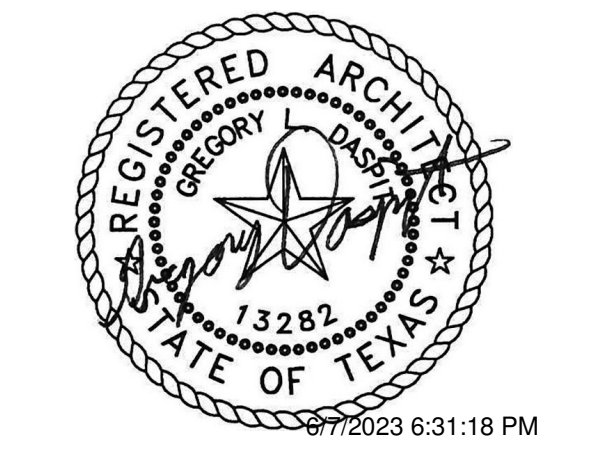


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LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136
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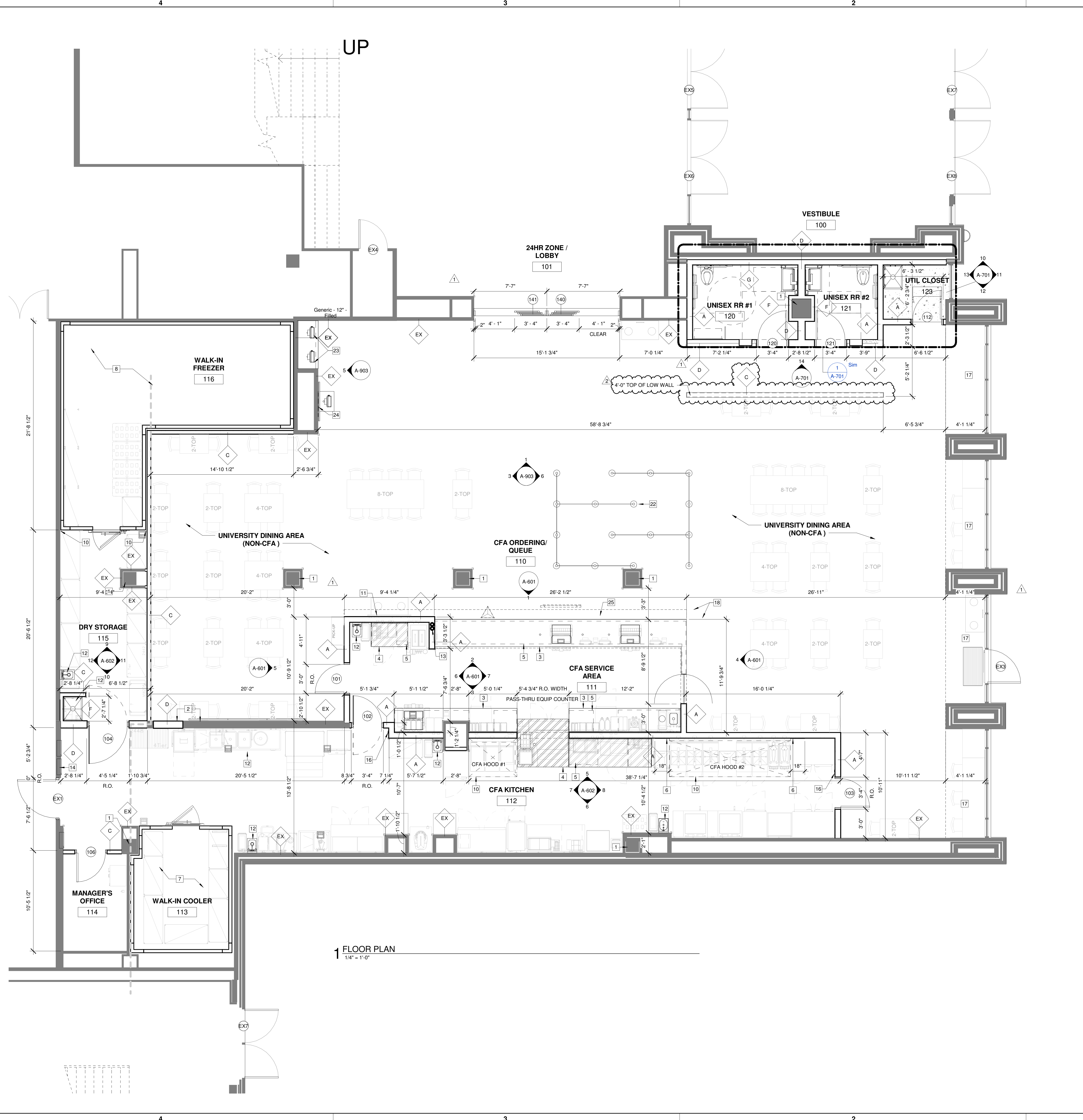
SHEET DEMO RCP

SHEET NUMBER

D-221

CONSTRUCTION DOCUMENTS

BIM:360:/TX_80307_University of North Texas_2021.12_SAT:80307_University of North Texas_RELOCATION_ARC.vit
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 80307-A-201-FLOOR PLAN



1 FLOOR PLAN
 1/4" = 1'-0"

GENERAL NOTES: FLOOR PLAN

- ALL PERIMETER WALLS AND STRUCTURAL COLUMNS ARE ASSUMED. GENERAL CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND WALL CONSTRUCTION AND NOTIFY ARCHITECT AND PROJECT AND FACILITY MANAGERS OF ANY DISCREPANCIES AS SOON AS POSSIBLE.
- DEMISING WALLS ARE NOT STRUCTURAL. PROVIDE ALL ADDITIONAL IN-WALL BLOCKING OR SUPPORT AS REQUIRED.
- DIMENSIONS ARE FROM THE FACE OF THE STUD UNLESS OTHERWISE NOTED.
- ALL FASTENERS, ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD AND ARE LESS THAN 3/8" THICK SHALL BE GIBS COATED GALVANIZED, STAINLESS STEEL OR AN APPROVED EQUAL.
- REFER TO FINISH PLAN FOR LOCATIONS AND TYPES OF CORNER GUARDS.
- LIMITED COMBUSTIBLE CONSTRUCTION SHALL CONSIST OF METAL STUDS, 5/8" DURAROCK, 5/8" FIRE RETARDANT GYP BOARD AND STAINLESS STEEL.
- ALL WOOD TO BE NON-COMBUSTIBLE TYPE ONLY (FIRE RETARDANT TREATED); UNLESS NOTED OTHERWISE.
- LIMITED COMBUSTION CONSTRUCTION SHALL BE USED WITHIN 18" BEHIND AND UNDER ALL HOODS.
- SEE METAL STUD SCHEDULE ON G-001 FOR GAUGES OF METAL STUDS IF NOT OTHERWISE SPECIFIED.

CONSTRUCTION NOTES: FLOOR PLAN

- PROVIDE TEMPORARY BARRICADE DURING CONSTRUCTION AS NECESSARY BY LOCAL ORDINANCES; COORDINATE WITH PROJECT AND FACILITIES MANAGERS.
- SOFFITS AND SUSPENDED CEILINGS SHALL BE SECURED TO STRUCTURAL FRAMING ONLY; SEE DETAILS.
- ALL MECHANICAL DEVICES (TIME CLOCKS, GRILLE LOCKS, CONTROLS, ETC.) SHALL BE CONCEALED WITHIN STOREFRONT CONSTRUCTION. ELECTRONIC SURVEILLANCE OR THEFT DETECTION DEVICES SHALL NOT BE VISIBLE. ANY APPROVED SYSTEMS MUST BE COMPLETELY INCORPORATED INTO STOREFRONT DESIGN. COVER PLATES AND SWITCHES FOR GRILLE EMERGENCY RELEASE (WHERE REQUIRED BY CODE TO BE ACCESSIBLE) MUST BE FINISHED TO MATCH ADJACENT SURFACE AND EMPLOY CONCEALED HARDWARE ONLY.
- PROVIDE WATERPROOF MEMBRANE AS REQUIRED BY GOVERNING JURISDICTION AND ENTITY WITH CONTROL OVER PREMISES. EXTEND MINIMUM 12" UP WALLS. INSTALLATION OF WATERPROOFING MUST BE DONE PER GOVERNING ENTITIES SPECIFICATIONS; COORDINATE WITH GOVERNING ENTITY.
- FLOOR DRAINS REQUIRED IN ALL KITCHENS, FOOD PREPARATION AREAS, ANY OTHER LOCATIONS WHERE WATER IS USED.
- PROTECT AND MAINTAIN ACCESS TO ANY EXISTING HVAC, ELECTRICAL AND PLUMBING SYSTEMS INCLUDING, BUT NOT LIMITED TO, CLEANOUTS, VALVES, DAMPERS, JUNCTION BOXES, SMOKE DETECTORS, ETC.
- ALL TRANSITIONS BETWEEN DISSIMILAR FLOOR MATERIALS MUST BE FLUSH AND LEVEL.
- EXISTING SECURITY CAMERAS TO BE RELOCATED TO VIEW RESTROOM DOORS. GC TO CONFIRM WITH UNIT IT DEPT / IT CONSULTANT (ENTECH).

PARTITION TYPE LEGEND

NOTE:
 G.C. TO VERIFY WALL LOCATIONS AND CONSTRUCTION TYPES PRIOR TO START OF CONSTRUCTION; NOTIFY ARCHITECT, PROJECT MANAGER AND FACILITIES MANAGER OF ANY DISCREPANCIES

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING 1 HR. FIRE-RATED WALL
- EXISTING 2 HR. FIRE-RATED WALL
- NEW PARTITION
- WALL TYPE

PARTITION TYPE

- EX EXISTING WALL TO REMAIN OR BY OTHERS. GC TO VERIFY WALL LOCATION AND CONSTRUCTION TYPE PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT AND PROJECT AND FACILITIES MANAGERS OF ANY DISCREPANCIES, COORDINATE REMOVAL OR RETENTION OF SHEATHING WITH DEMOLITION PLAN AND NEW SHEATHING WITH FINISH PLAN.
- A 6" METAL STUDS AT 16" O.C. TO UNDERSIDE OF EXISTING STRUCTURE ABOVE, PROVIDE SHEATHING PER SCHEDULE.
- B 3 5/8" METAL STUDS AT 16" O.C. TO 12" ABOVE CEILING, PROVIDE SHEATHING PER SCHEDULE.
- C 3 5/8" METAL STUDS AT 16" O.C. TO UNDERSIDE OF EXISTING STRUCTURE ABOVE, PROVIDE SHEATHING PER SCHEDULE.
- D 8" METAL STUDS AT 16" O.C. TO UNDERSIDE OF EXISTING STRUCTURE ABOVE, PROVIDE SHEATHING PER SCHEDULE.
- F 3 5/8" METAL STUDS AT 16" O.C. TO 12" ABOVE CEILING, PROVIDE SHEATHING ONE SIDED PER SCHEDULE.

KEY NOTES - FLOOR PLAN

MARK	NOTES
1	EXISTING COLUMN TO REMAIN, PROTECT DURING CONSTRUCTION. G.C. TO VERIFY SIZE AND LOCATION PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT AND PROJECT AND FACILITIES MANAGERS OF ANY DISCREPANCIES
2	ALIGN FACE OF NEW SHEATHING WITH FACE OF EXISTING SHEATHING
3	LINE OF MILLWORK WITH SOLID SURFACE TOP, COORDINATE WITH DETAILS ON A-902 REFER TO MILLWORK SHOP DRAWINGS FOR FINAL INSTALLATION INSTRUCTIONS
4	LINE OF MILLWORK WITH STAINLESS STEEL TOP, COORDINATE WITH DETAILS ON A-902, REFER TO MILLWORK SHOP DRAWINGS FOR FINAL INSTALLATION INSTRUCTIONS
5	LINE OF PRESSURE TREATED CURB BELOW, CURBS CONSTRUCTED BY G.C. AND INSTALLED DIRECTLY ON SLAB, COORDINATE SIZE AND LOCATIONS WITH A-901. IN FIELD CONDITIONS, AND MILLWORK MANUFACTURER SHOP DRAWINGS. CURBS ARE NOT FIRE RETARDANT TREATED UNLESS REQUIRED BY AHJ. NOTIFY ARCHITECT FOR ADDITIONAL DETAILS IF REQUIRED BY AHJ.
6	LOCATION OF STAINLESS STEEL PANELS (S-1). COORDINATE WITH FINISH PLAN A-211 AND K-SHEETS. PROVIDE 18" MIN AT EACH END WHERE WALL IS ADJACENT TO HOOD
7	EXISTING COOLER TO REMAIN, CLEAN AND SERVICE AS NECESSARY TO RETURN TO "LIKE NEW" CONDITION
8	EXISTING WALK-IN FREEZER TO BE ENLARGED & MODIFIED AS SHOWN, CLEAN AND SERVICE AS NECESSARY AFTER MODIFICATION TO
9	EXISTING HOOD RELOCATED ABOVE, ALIGN WITH EDGE OF PASS-THRU, COORDINATE WITH KITCHEN AND MECHANICAL SHEETS
10	NEW HOOD ABOVE, COORDINATION WITH KITCHEN AND MECHANICAL SHEETS. G.C. TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW
11	NEW RIGID RAIL STANCHIONS, CONFIRM IF SUPPLIED BY UNIVERSITY & INSTALLED BY G.C.
12	NEW PLUMBING FIXTURE, COORDINATE WITH KITCHEN AND PLUMBING SHEETS
13	(2) 4" PVC BEVERAGE CHASES, ROUTE FROM 6" BELOW CEILING AT BIB RACK, OVER CEILING AND THROUGH WALL TO MILLWORK AT CHICK-FIL-A FRONT COUNTER
14	NEW ELECTRICAL PANEL RECESSED IN WALL, COORDINATE WITH ELECTRICAL SHEETS, PROVIDE 30 x 42" CLEAR FLOOR SPACE IN FRONT OF ALL UNITS
15	EXISTING ANSUL PULL LOCATIONS FOR HOODS #260 AND #266, COORDINATE WITH ELECTRICAL AND KITCHEN SHEETS
16	NEW ANSUL PULL LOCATIONS FOR HOODS #260 AND #266, COORDINATE WITH ELECTRICAL AND KITCHEN SHEETS
17	EXISTING SOFFIT ABOVE TO REMAIN PROTECT DURING CONSTRUCTION
18	NEW SOFFIT ABOVE, COORDINATE WITH RCP ON A-221 AND DETAILS ON A-600 SHEETS
19	NEW CFA SCRIPT, REF. INTERIOR ELEVATIONS.
20	NEW CFA ICON SIGN, REF. INTERIOR ELEVATIONS
21	NEW SECURITY GRILLE & POCKET DOOR
22	NEW RIGID RAIL STANCHIONS, CONFIRM IF SUPPLIED BY UNIVERSITY & INSTALLED BY G.C.
23	NEW FREE-STANDING MOBILE ORDERING KIOSKS, RE. BRANDING PLAN F-201
24	NEW CHICK-FIL-A ORDER STATUS DIGITAL MONITOR, RE. INTERIOR ELEVATIONS & BRANDING PLAN
25	NEW CHICK-FIL-A LOW PROFILE SCRIPT SIGN, RE. INTERIOR ELEVATIONS & BRANDING PLAN

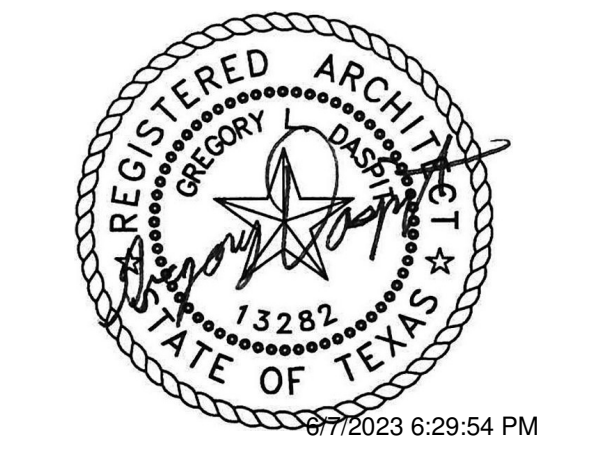


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LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV
2	06.02.2023	UNIT REVIEW REV-2

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SHEET FLOOR PLAN
 SHEET NUMBER **A-201**

CONSTRUCTION DOCUMENTS

MATERIAL SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE		
EX	EXISTING FINISH						EXISTING FINISH TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION		
01	CEILING FINISHES								
ACT-1	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA VINYLROCK	1142-CRF-1	WHITE	24" x 24" x 1/2"	GRID-STANDARD 1516" SQUARE LAY-IN GRID, WHITE		
02	FLOOR FINISHES								
G-1	FLOOR TILE GROUT	MAPEI	ULTRA COLOR GROUT		47 / CHARCOAL		(T3 & T4)		
G-3	FLOOR TILE GROUT	MAPEI	TERAPROXY ES CO		47 / CHARCOAL		(KT1 SERIES); GC TO INSTALL WITH STANDARD THINSET MORTAR		
KT-1A	KITCHEN TILE	DALTILE	QUARRY - GRAY	Q2585	GRAY QUARRY 0703	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR		
RT-1A	RESTROOM FLOOR TILE	CERAMIC TECHNIQS/ MOSA STAGE	MID WARM GREY	S510	MID WARM GREY / S510	12" X 24"	JOINT WIDTH: 3/8" WITH THINSET MORTAR (MATCH EXISTING UNIVERSITY RESTROOMS)		
T3	PORCELAIN TILE	DALTILE	CHIC - STONE GRAY	N633	CHIC - STONE GRAY	12" X 12"	JOINT WIDTH: 3/16"; INSTALL TILE AT 45 DEGREE OR 90 DEGREE; COORDINATE WITH FINISH PLAN (MATCH EXISTING TERRYXO FLOORING - COLOR, CONTROL JOINT & THICKNESS)		
T2-1	TERRYXO FLOORING	RESINOUS MATRIX TERRAZZO	MATCH EXISTING	TM 12-3149	TM 12-3149				
04	WALL BASE FINISHES								
KT-1B	KITCHEN TILE COVE BASE	DALTILE	QUARRY - GRAY	Q2585	GRAY QUARRY 0703	6" X 12" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR		
RT-1B	RESTROOM WALL BASE TILE	CERAMIC TECHNIQS/ MOSA STAGE	MID WARM GREY	S510	MID WARM GREY / S510	3/8" X 24" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR (MATCH EXISTING UNIVERSITY RESTROOMS)		
T4	PORCELAIN TILE COVE BASE	DALTILE	CHIC - STONE GRAY	N633	CHIC - STONE GRAY	1/2" X 12" COVE	JOINT WIDTH: 3/16"		
TZB-1	TERRYXO WALL BASE	RESINOUS MATRIX TERRAZZO	MATCH EXISTING - 4" COVE BASE	TM 12-3149	TM 12-3149	4" COVE BASE	(MATCH EXISTING TERRYXO BASE - COLOR & THICKNESS)		
04	WALL FINISHES								
FRP-2	FRP WALL PANELS @ KITCHEN	MARLITE	STANDARD FRP	P-199	BRIGHT WHITE	0800" THICK X 4 X 10 PANELS	PROVIDE MARLITE CORNER GUARDS AT ALL OUTSIDE CORNERS IN KITCHEN AREAS, U.N.O.		
G-2	WALL TILE GROUT	MAPEI	KERACOLOR U WITH GROUT MAXIMIZER LATEX ADDITIVE	UNSAUNDED	08 GRAY				
PT-1B	PRIMARY WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		T-1 SERIES, T-2, T-5, T-6		
PT-2	PRIMARY INTERIOR WALL PAINT	BENJAMIN MOORE	OC-46 HALO	OC-46	HALO				
PT-3B	ACCENT INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7800	BOLERO				
S-1	STAINLESS STEEL WALL PANEL	CUSTOM	18 GAUGE STAINLESS STEEL WALL PANEL						
T-1A	SUBWAY WALL TILE	DALTILE	BISQUIT	K175	BISQUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"		
T-1E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	DALTILE	BISQUIT	K175 / S4849	BISQUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"		
T-2	STAINLESS STEEL WALL TILE	DALTILE	VOQUE STAINLESS STEEL	MCS6A2	VOQUE STAINLESS STEEL	11" X 2" BRICK, 12 X 12 SHEET	BRUSH FINISH		
WD-1	WHITE OAK BOARDS	SKYLAR MORGAN	1/4" PLYWOOD		NATURAL WHITE OAK BOARDS		SEE A-600 SERIES DRAWINGS & CLAYTON FIXTURE SHOPS, MUST BE ORDERED THROUGH CLAYTON FIXTURES		
WD-3	WANSKOTING	CLAYTON FIXTURE	1/4" PLYWOOD		WOOD STAINED GRIPFIN LIGHT WITH GLAZE		SEE A-600 SERIES DRAWINGS & CLAYTON FIXTURE SHOPS, MUST BE ORDERED THROUGH CLAYTON FIXTURES		
WT-1	RESTROOM PORCELAIN WALL TILE	CERAMIC TECHNIQS/ MOSA STAGE	GLOBAL COLLECTION GLOBALGRIP	16680	GLOBAL COLLECTION GLOBALGRIP	4" X 12"	MATCH EXISTING BLDG STANDARD RESTROOM TILE FINISH; PROVIDE BULLNOSE @ TOP COURSE; RESTROOM TILE WANSKOT		
WT-2	RESTROOM ACCENT PORCELAIN WALL TILE	CERAMIC TECHNIQS WALL TILE	STONEWORKS INDUSTRIAL REFLECTIONS	EMERALD	EMERALD - GLOSSY MOVE	4" X 12"	MATCH EXISTING BLDG STANDARD RESTROOM TILE FINISH		
05	MISCELLANEOUS FINISHES								
PL-1	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	D-96	SHADOW		REAR SERVICE COUNTER FACE		
PL-3	PLASTIC LAMINATE	WILSONART	BASICS	4678-38	PEWTER MESH		BRUSHED #4 FINISH WITH MATTE FINISH, SURFACE ROUGHNESS OF RA 25 MICRO INCHES OR LESS		
S-2	STAINLESS STEEL COUNTERTOPS		17 GAUGE STAINLESS STEEL OVER (2) LAYERS MARINE GRADE PLYWOOD GRADE 304		17 GAUGE STAINLESS STEEL OVER (2) LAYERS MARINE GRADE PLYWOOD GRADE 304				
SS-1	SOLID SURFACE	AVONITE STUDIO COLLECTION	ELEVATION	CFA SS-18			REFER TO DRAWINGS		
SS-4	SOLID SURFACE	AVONITE STUDIO COLLECTION	ARTICA	CFA SS-13	ARTICA		REFER TO DRAWINGS		
05	TRIM								
CG-3A	CORNER GUARD (KITCHEN ONLY)	CUSTOM	STAINLESS STEEL CORNER GUARD; 2" X 2" LEGS		STAINLESS STEEL				
CG-3B	WALL END CAP	CUSTOM	STAINLESS STEEL CORNER GUARD; WALL CAP WITH 2" LEG AT ADJACENT WALL FACES		STAINLESS STEEL				
CG-3C	CORNER GUARD (DINING ONLY)	CUSTOM	CLEAR POLYCARBONATE CORNER GUARD; 2" X 2" LEGS		CLEAR				
MT-2	COLUMN BASE TRIM	TBD							
TR-3	TRANSITION FROM (T-6) TO (T-1) OR (T-2)	SCHLUTER	JOLLY	A60AT	SATIN NICKEL	1/4" (6 MM)			
TR-5	TRANSITION FROM (WD-1) TO (T-1) OR (T-2)	SCHLUTER	SCHLUTER	A60	SATIN NICKEL	1/4" (6 MM)			

GENERAL NOTES: FINISH

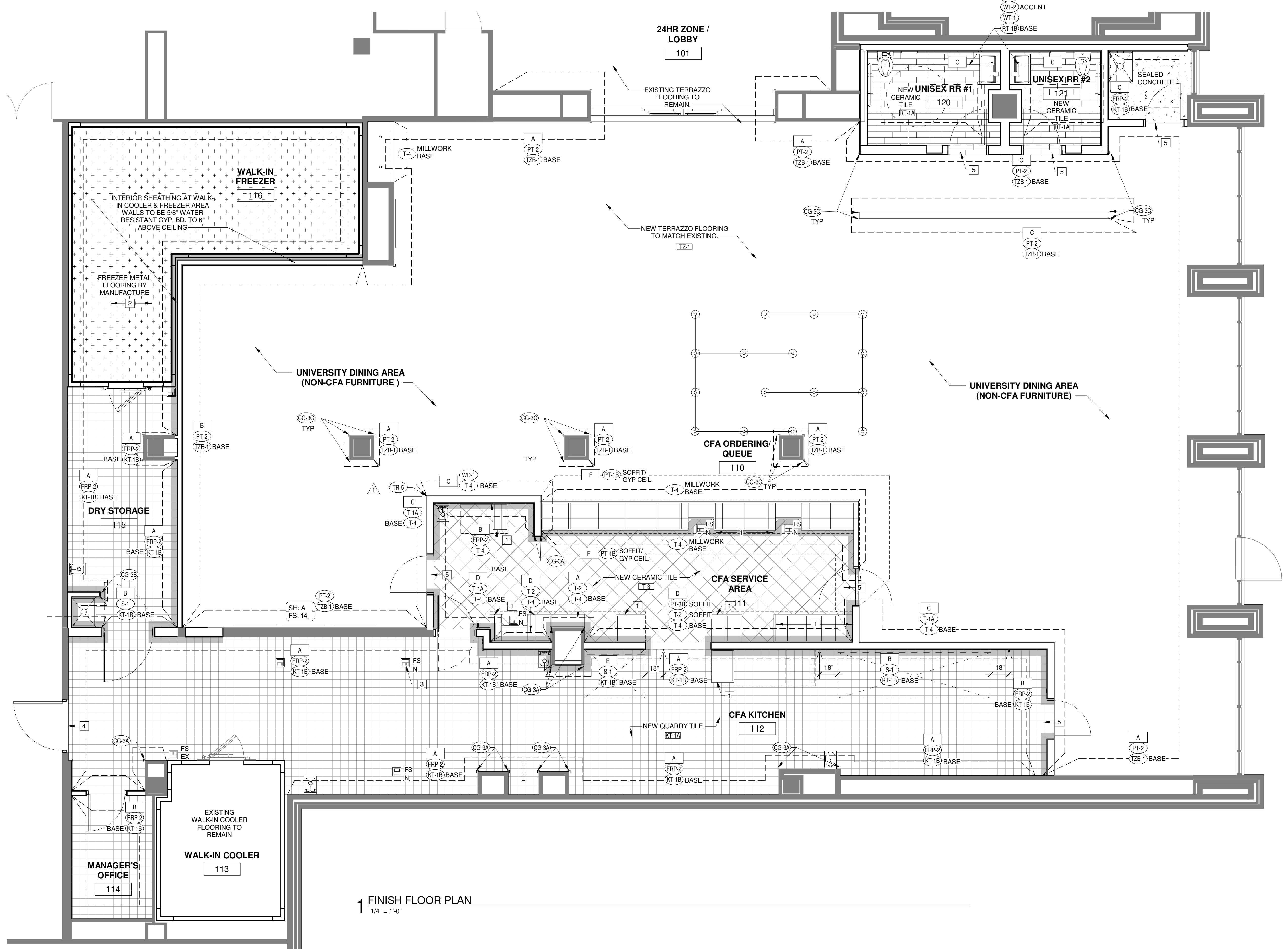
- SLAB NOTES:**
- COORDINATE CONTROL JOINTS IN TILE WITH CONTROL JOINTS IN SLAB BELOW; G.C. TO PROVIDE ADDITIONAL CONTROL JOINTS AS NECESSARY.
 - PROVIDE SLOPE IN SLAB (2% MAX) TO FLOOR DRAINS; COORDINATE LOCATIONS WITH P-SHEETS AND EXISTING CONDITIONS.
- WATERPROOFING NOTES:**
- PROVIDE A WATERPROOFING MEMBRANE (62 MIL WITH POLYPROPYLENE FABRIC REINFORCING RECOMMENDED, COORDINATE FINAL SPECIFICATION WITH FACILITY OPERATIONS):
 - WHERE SLAB IS ON GRADE, PROVIDE MEMBRANE AT ALL PERIMETER WALLS EXTENDING INTO SPACE 36"-48" AND UP THE WALL A MINIMUM OF 12" (NOT TO EXCEED THE HEIGHT OF THE CEMENT BOARD.)
 - WHERE SLAB IS ABOVE GRADE, PROVIDE MEMBRANE THROUGHOUT SPACE AND UP THE WALL A MINIMUM OF 12" (NOT TO EXCEED THE HEIGHT OF THE CEMENT BOARD.)
- FINISH NOTES:**
- START WOOD INSTALLATION AT BOTTOM OF SOFFIT OR TOP OF BASE TILE AS APPLICABLE.
 - TILE SETTING METHODS TO BE PER THE LATEST PRINTED EDITION OF "HANDBOOK FOR CERAMIC TILE INSTALLATION" AS PUBLISHED BY THE TILE COUNCIL OF AMERICA, INC.
 - START TILE INSTALLATION AT TOP OF BASE TILE.
 - WHERE BASE TILE IS UNDER MILLWORK OR HAS TILE INSTALLED ABOVE; BULLNOSE IS TO BE REMOVED SO THAT TILE CAN BE INSTALLED WITH TOP OF CUT TILE AT 5 1/2" ABOVE FINISHED CONCRETE SLAB.
 - TILE TO EXTEND BEHIND MILLWORK.
 - INSTALL TILE (T-6) PRIOR TO ANY ADJACENT TILE.
 - SEE ELEVATIONS FOR LOCATIONS OF BULLNOSED TILE.
 - SEE MATERIAL SCHEDULE FOR FLAME SPREAD INFORMATION. TO COMPLY WITH THE CODES LISTED ON COVERSHEET, ALL INTERIOR FINISHES SHALL:
 - a. ALL FLOOR FINISHES SHALL HAVE A MINIMUM CLASS RATING OF "B" OR BETTER.
 - b. ALL CEILING SHALL HAVE MINIMUM CLASS RATING OF "A".
 - c. FOR ALL INTERIOR ROOMS; CORRIDORS AND EXIT PASSAGES; INTERIOR WALL FINISHES SHALL BE OF A CLASS "C" OR BETTER

FLOOR FINISH LEGEND

- NOTES: ALL WALLS WITH CHICK-FIL-A SPECIFIED WALL FINISH ON CUSTOMER SIDE SHALL HAVE (T-4) TILE BASE AND GROUT WITH (G-3) UNLESS NOTED OTHERWISE. COORDINATE WITH ELEVATION DRAWINGS
- EXISTING FLOORING TO REMAIN OR FLOORING FINISH BY OTHERS; PROTECT DEMOLITION AND CONSTRUCTION; PATCH, REPAIR, REPLACE, & ADD NEW NECESSARY TO RETURN TO "LIKE NEW" CONDITION; MATCH EXISTING.
 - CERAMIC TILE (T-3) WITH (T-4) BASE AT ADJACENT WALLS IN 45 DEGREE PATTERN, START INSTALLATION AT CENTER OF ROOM, GROUT WITH (G-1)
 - QUARRY TILE (KT-1A) WITH (KT-1B) BASE, GROUT WITH (G-3)
 - WATERPROOFING MEMBRANE TO EXTEND 12" UP WALL AND 12" FROM WALL ALONG FLOOR.
 - FLOOR SINK: COORDINATE EXACT LOCATION AND SPECIFICATION WITH PLUMBING DRAWINGS.
 - N: NEW
 - EX: EXISTING
 - FLOOR DRAIN: COORDINATE EXACT LOCATION AND SPECIFICATION WITH PLUMBING DRAWINGS.
 - N: NEW
 - EX: EXISTING
 - PRESSURE TREATED WOOD CURBS BY G.C., REF. MILLWORK SHOP DRAWINGS AND A900 SHEETS FOR LOCATION. PROVIDE BASE TILE FOR CURBS AND COORDINATE WITH ADJACENT FLOORING AND WALL TYPES

FLOOR SCHEDULE

- SH : A ← SHEATHING TYPE
FS : 1 ← FINISH SET
- SHEATHING TYPE**
- A EXISTING SHEATHING TO REMAIN, PROTECT DURING DEMOLITION & CONSTRUCTION, CLEAN AND/OR PATCH AND REPAIR TO RETURN TO "LIKE NEW" CONDITION.
 - B (1) LAYER 5/8" CEMENT BOARD FROM FLOOR TO 18" A.F.F. AND 5/8" FRT-CDX PLYWOOD FROM 18" A.F.F. TO 6" ABOVE CEILING
 - C (1) LAYER 5/8" CEMENT BOARD FROM FLOOR TO 6" ABOVE OR UNDERSIDE OF CEILING (AS APPLICABLE), TO UNDERSIDE OF STRUCTURE ABOVE AT HOODS
 - D (1) LAYER 5/8" CEMENT BOARD FROM FLOOR TO UNDERSIDE OF SOFFIT AND 1/2" DRYWALL AND 3/4" FRT-CDX PLYWOOD AT SOFFIT ABOVE.
 - E MATCH SHEATHING AT THE EXISTING ADJACENT WALL.
 - F (1) LAYER 5/8" FRT-CDX PLYWOOD FROM BOTTOM OF SOFFIT FRAMING TO 6" ABOVE OR UNDERSIDE OF CEILING (AS APPLICABLE)
 - G (1) LAYER 5/8" DRYWALL FROM FLOOR, OR BOTTOM OF SOFFIT, TO 6" ABOVE OR UNDERSIDE OF CEILING (AS APPLICABLE)
- KEY NOTES - FLOOR FINISH PLAN**
- PRESSURE TREATED WOOD CURB (BY GENERAL CONTRACTOR); CURBS TO SIT DIRECTLY ON SLAB, NOT ON FLOORING; SEE MILLWORK PAGES FOR DESIGN PLANS AND SHOP DRAWINGS FOR FINAL LAYOUT; PROVIDE BASE TILE AT ALL EXPOSED FACES; COORDINATE WITH ADJACENT FLOORING
 - FREEZER FLOOR TO SITE DIRECTLY ON FLOORING; DO NOT PUNCTURE FLOORING OR WATERPROOFING DURING INSTALLATION
 - G.C. TO ENSURE THAT FLOOR SINK IS HALF VISIBLE UNDER ICE MAKER
 - G.C. TO EVALUATE EXISTING THRESHOLD AND MODIFY OR REPLACE AS NECESSARY TO ACCOMMODATE NEW FLOOR TILE. FINISH TO MATCH EXISTING
 - G.C. TO PROVIDE TRANSITION BETWEEN NEW FLOOR TILE, CONCRETE FLOORING AND TERRAZZO FLOORING; ENSURE TRANSITION STRIP DOES NOT INTERFERE WITH FIRE-RATED DOOR RATING OR OPERATION



1 FINISH FLOOR PLAN
1/4" = 1'-0"



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1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20.11

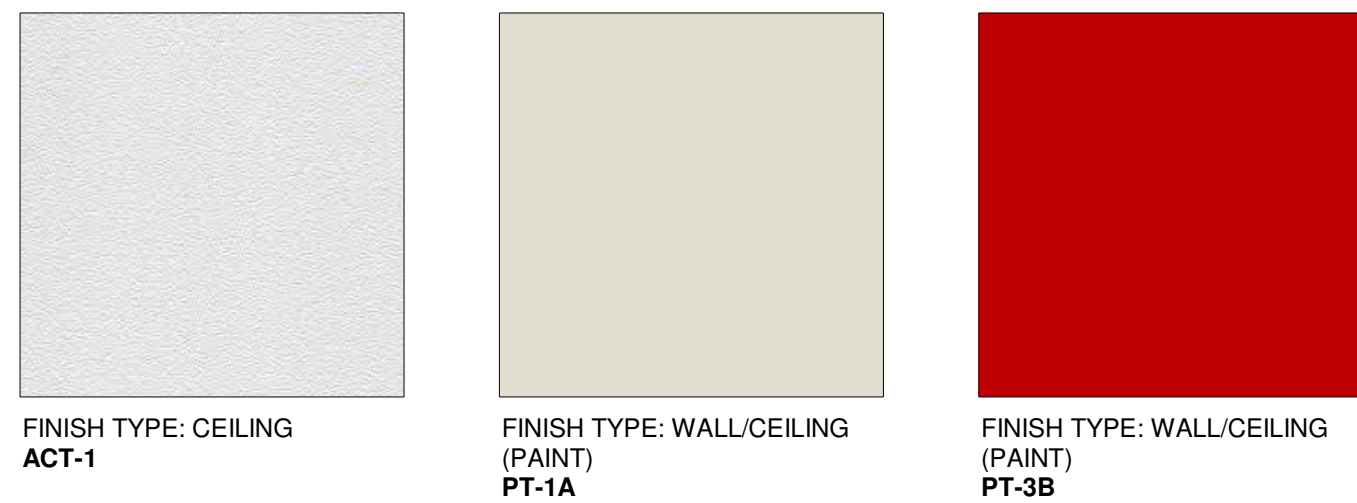
NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV

CONSULTANT PROJECT # 21136
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SHEET FINISH FLOOR PLAN
SHEET NUMBER

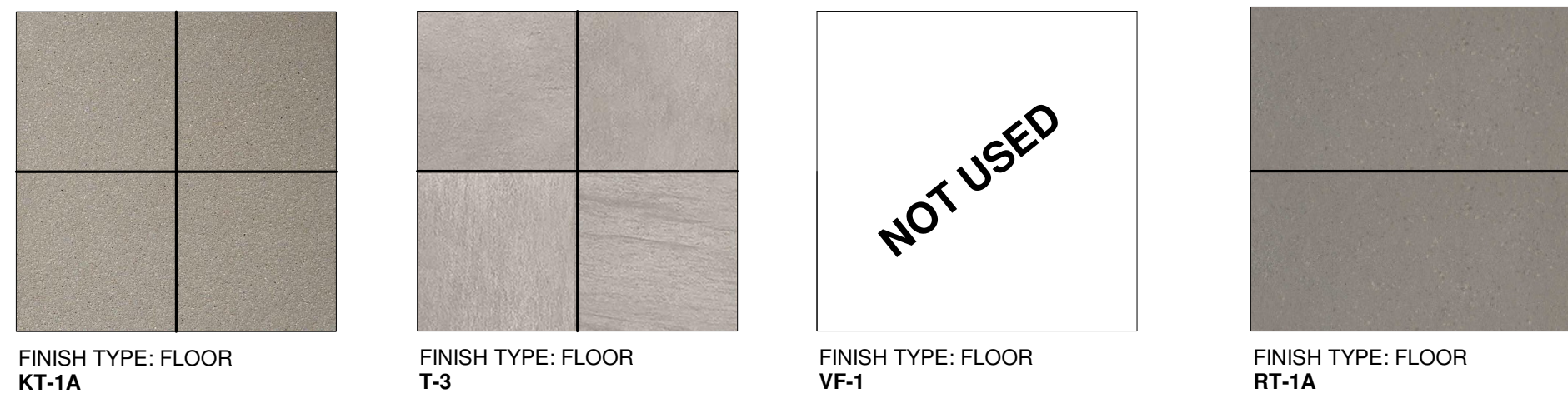
MATERIAL SCHEDULE

Table with columns: MARK, DESCRIPTION, MANUFACTURER, MODEL NAME, MODEL NUMBER, COLOR, SIZE, NOTE. Includes sections for CEILING FINISHES, FLOOR FINISHES, WALL FINISHES, MISCELLANEOUS FINISHES, and TRIM.

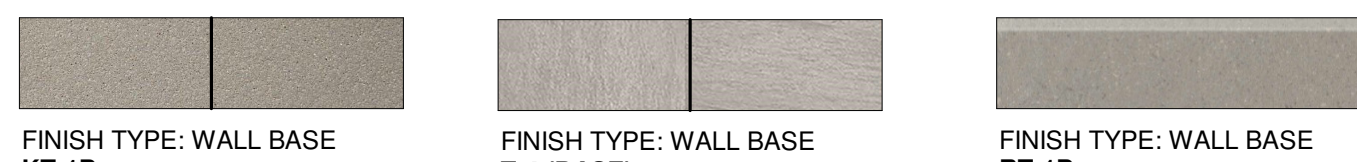
01 CEILING



02 FLOOR



03 WALL BASE



04 WALL



05 TRIM



06 MILLWORK



NOTE: PRINTED REPRESENTATION OF FINISHES MAY DIFFER FROM ACTUAL FINISHES

FINISH NOTES

- 3.1 ALL FINISH MATERIALS AND LOCATIONS TO BE APPROVED BY CFA PRIOR TO ORDER AND INSTALLATION.
3.2 ALL GYPSUM BOARD WALLS TO HAVE SMOOTH FINISH UNLESS OTHERWISE NOTED.
3.3 WHERE BASE TILE IS UNDER MILLWORK OR HAS TILE INSTALLED, ABOVE BULLNOSE IS TO BE REMOVED SO THAT TILE CAN BE INSTALLED WITH TOP OF CUT TILE AT 5/16" ABOVE FINISH CONCRETE.

PAINT SPECIFICATIONS

- 4.1 THE WORK WILL CONSIST OF ALL PREPARATION, PAINTING, FINISHING WORK, CLEAN UP AND RELATED ITEMS NECESSARY TO COMPLETE WORK DESCRIBED IN THESE SPECIFICATIONS.
4.2 KEEP SURFACES DUST, DIRT AND DEBRIS FREE BEFORE AND DURING PAINTING.
4.3 NORMAL SAFETY AND "WET PAINT" SIGNS, NECESSARY LIGHTING, ETC. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OSHA REQUIREMENTS WHILE THE WORK IS IN PROGRESS.

Table with columns: FINISH, PRIME COAT, DIRECTIONS. Lists finishes like BARE GYPSUM BOARD, PREVIOUSLY PAINTED GYPSUM BOARD, UNPAINTED WOOD TRIM, etc.

- 4.7 CAULK ALL JOINTS BETWEEN WOOD AND WOOD, WOOD AND GYP BOARD AND METAL AND GYP BOARD WITH SHERWIN-WILLIAMS C1100A SILICONIZED ACRYLIC LATEX CAULK.
4.8 PAINT CAN BE CUT UP TO 15% WITH MINERAL SPIRITS FOR SPRAYING OR UP TO 4% FOR BRUSH ON APPLICATIONS. CONTACT NATIONAL ACCOUNT REPRESENTATIVE FOR ADDITIONAL INFORMATION.

MATERIAL NOTES

- 5.1 CEILING SUSPENSION SYSTEM AS MFG. BY USG INTERIORS, INC., CHICAGO, IL. DOWN XD FIRE-RATED 15/16" WIDE STANDARD GRID SYSTEM, COLOR - WHITE.
5.2 GYPSUM & CEMENT WALLBOARD AS MFG. BY UNITED STATES GYPSUM, CHICAGO, IL. SEE SECTIONS AND DETAILS FOR SIZE SPECIFICATIONS.
5.3 FIBERGLASS REINFORCED POLYESTER PANELS AND ACCESSORIES (FRP), AS MFG. BY MARLITE DIVISION OF MASONITE CORP., DOVER, OH.

Table with columns: DESCRIPTION, FLAME-SPREAD, CLASS, DESCRIPTION, FLAME-SPREAD, CLASS. Lists materials like GYPSUM WALLBOARD, PAINT, DECORATIVE LAMINATE, etc.

CAULKING GUIDELINES

Table with columns: MATERIAL, TO, MATERIAL, CAULK COLOR. Lists materials like PAINTED WALLS, PAINTED WALLS, STOREFRONT, etc.



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Table with columns: NO., DATE, DESCRIPTION. Revision schedule table.

CONSTRUCTION DOCUMENTS
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FINISH SCHEDULE AND DIGITAL MATERIAL BOARD SHEET NUMBER A-212

BIM:360/ITX_80307_University of North Texas_2021.12_SAT80307_University of North Texas_RELOCATION_ARC.vit
 6/7/2023 6:30:05 PM
 80307-A-221-REFLECTED CEILING PLAN

PROPRIETARY LIGHTING FIXTURE SCHEDULE								
TO BE PURCHASED THROUGH ACCUSERV OR VILLA LIGHTING								
TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	LAMP	WATTAGE	MOUNTING	COMMENTS	QTY.
A	COOPER	24FP6440C	2'X4' LED FLAT PANEL RATED 6611 LUMENS, 4000K COLOR TEMP	LED	59 W	RECESSED		11
A2	Cooper Lighting	22FP and 24FP LED	General LED Panel	LED	39 W	RECESSED		5
AE	COOPER	24FP6440C-EL14W	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	LED	59 W	RECESSED		2
D3	COOPER	PD6-20-D010B-PDM 6B-30-61VC	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP	LED	19 W	RECESSED		67



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GENERAL NOTES: REFLECTED CEILING PLAN

- PATCH AND REPAIR ALL EXISTING DRYWALL CEILINGS THAT ARE SCHEDULED TO REMAIN TO "LIKE NEW" CONDITION.
- ALL FIXTURES IN FOOD PREPARATION AREAS MUST HAVE LENS TYPE DIFFUSERS.
- ALL SALES-AREA EXIT SIGNS AND EMERGENCY LIGHTS MUST HAVE REMOTE-TYPE BATTERIES. NO EXCEPTIONS.
- ALL CEILING GRILLES, TRACKS, DIFFUSERS, LIGHT TRACKS, ETC... SHALL BE FINISHED TO MATCH ADJACENT CEILING.
- PROVIDE SERVICE ACCESS PANELS IN ALL HARD-SURFACE CEILINGS AND IN AREAS WHERE ACCESS IS REQUIRED FOR MECHANICAL EQUIPMENT, SIGNS, ETC... PANELS SHOULD BE FLUSH-MOUNT AND EMPLOY ONLY CONCEALED-TYPE HARDWARE.
- CEILING SYSTEMS OR ANY CONSTRUCTION MUST ONLY BE ATTACHED TO STRUCTURE ABOVE.
- DIMENSIONS ON THE REFLECTED CEILING PLAN ARE FROM THE FACE OF FINISH.

SPRINKLER AND FIRE ALARM NOTES:

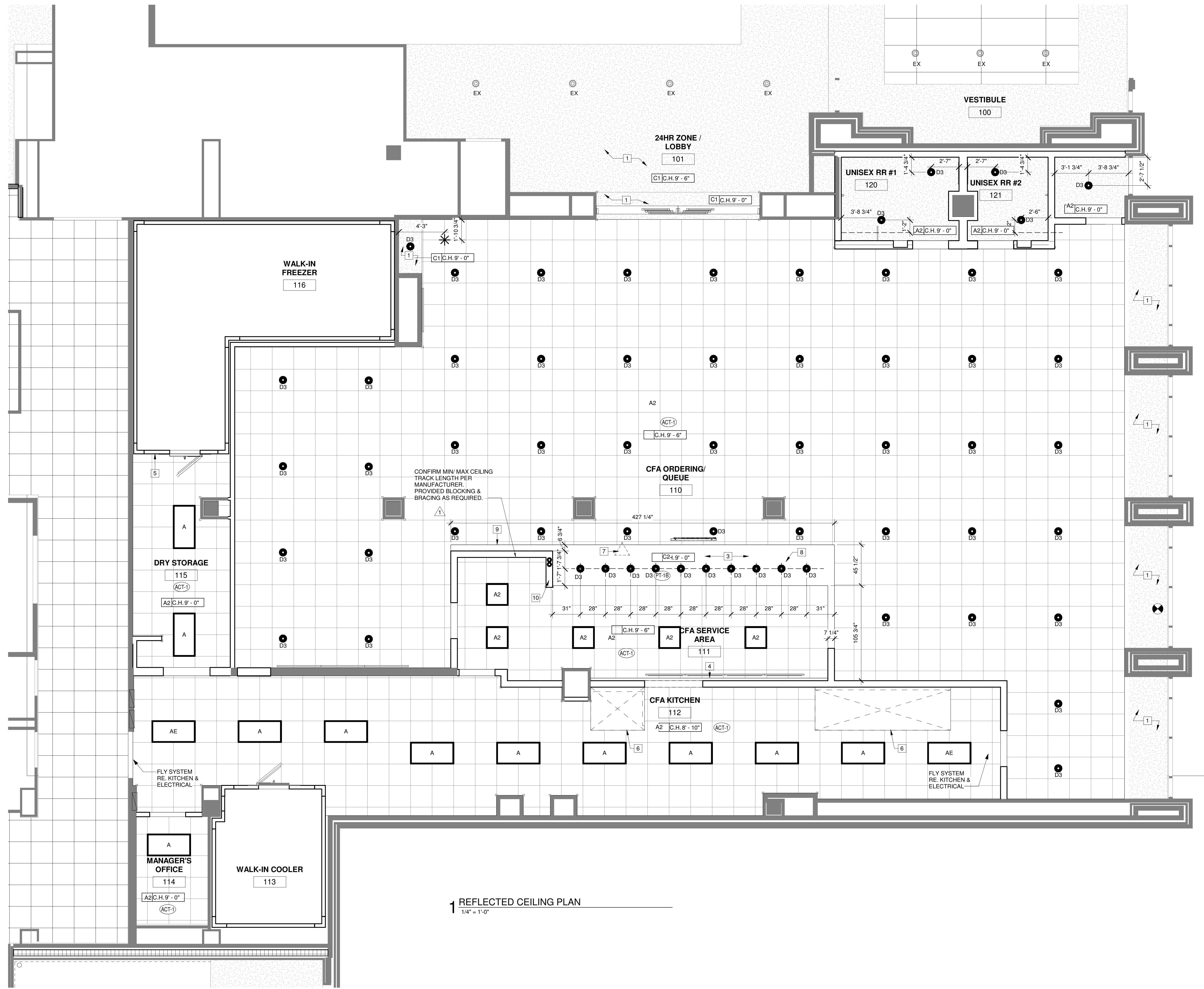
- CONNECT TO EXISTING SPRINKLER SYSTEM AS REQUIRED BY LOCAL JURISDICTION AND BASE BUILDING SYSTEM REQUIREMENTS.
- CONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED BY LOCAL JURISDICTION AND BASE BUILDING SYSTEM REQUIREMENTS.
- ALL WORK ON SPRINKLER SYSTEMS AND FIRE ALARM SYSTEMS TO BE CONTRACTED THROUGH GENERAL CONTRACTOR AND PERFORMED BY SUB-CONTRACTORS APPROVED BY BASE BUILDING OWNER.
- PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
- SEE PR2.1 FOR PROPOSED SPRINKLER HEAD LAYOUT; FINAL LAYOUT TO BE DONE BY SPRINKLER CONTRACTOR AND PERMITTED AS NECESSARY BY LOCAL JURISDICTION.

KEY NOTES - REFLECTED CEILING PLAN

Mark	Notes
1	EXISTING CEILING TO REMAIN; PROTECT DURING DEMOLITION AND CONSTRUCTION
2	NEW CHICK-FIL-A SERVING SOFFIT TO BE SUSPENDED FROM UNDERSIDE OF FLOOR ABOVE; PAINT PT-1B
3	NEW CHICK-FIL-A SIGNAGE MOUNTED ON SOFFIT ABOVE; PROVIDE ADDITIONAL BLOCKING PER MANUFACTURER'S SHOP DRAWINGS, RE: F-110 BRANDING PLAN
4	NEW CHICK-FIL-A MENU BOARD SOFFIT; PAINT PT-3A
5	STAINLESS STEEL CLOSURE PANEL TO RUN FROM TOP WALK-IN TO UNDERSIDE OF CEILING HOOD LOCATION; ALIGN WITH EDGE OF WALL, OR PASS-THRU, UNLESS NOTED OTHERWISE; COORDINATE WITH KITCHEN AND MECHANICAL SHEETS; PROVIDE STAINLESS STEEL CLOSURE PANELS BY HOOD MANUFACTURER, THAT EXTEND FROM TOP OF HOOD TO UNDERSIDE OF CEILING
7	CHICK-FIL-A 3-SIDED PUCK-UP SIGN MOUNTED ON SOFFIT ABOVE. RE: F-110 BRANDING PLAN
8	OVERHEAD SECURITY GATE TRACK; REFER TO MANUFACTURE FOR MOUNTING & REQUIRED BLOCKING.
9	CHICK-FIL-A SIGN ATTACHED TO WALL; PROVIDE ADDITIONAL BLOCKING PER MANUFACTURER'S SHOP DRAWINGS; SEE BRANDING EQUIPMENT SCHEDULE
10	(2) 6" PVC BEVERAGE CHASES; ROUTE FROM 6" BELOW CEILING AT BIB RACK, OVER CEILING AND THROUGH WALL TO MILLWORK AT CHICK-FIL-A FRONT COUNTER

CEILING LEGEND

CEILING TYPE	C2 10'-0"	CEILING HEIGHT
<p>CEILING TYPE A ACOUSTICAL LAY-IN CEILING GRID & TILE (ACT-1) REFER TO FINISH SCHEDULE</p> <p>A1: EXISTING A2: NEW ACT WITH GRID PER SPECIFICATION OR APPROVED EQUAL, REFER FINISH SCHEDULE</p>		
<p>CEILING TYPE C GYPSUM BOARD CEILING, PAINTED PER KEY NOTES REFER TO FINISH SCHEDULE</p> <p>C1: EXISTING C2: NEW</p>		
<p>OAK WOOD SOFFIT (WD-1); REFER TO FINISH SCHEDULE</p>		
A1 or A1E	LIGHT FIXTURE - UNDERCABINET 2X4; REFER TO PROPRIETARY LIGHTING SCHEDULE AND ELECTRICAL	
A2	LIGHT FIXTURE - UNDERCABINET 2X3; REFER TO PROPRIETARY LIGHTING SCHEDULE AND ELECTRICAL	
D3, D3E, or D8	LIGHT FIXTURE - RECESSED CAN; REFER TO PROPRIETARY LIGHTING SCHEDULE AND ELECTRICAL	
F	LIGHT FIXTURE - PENDANT REFER TO PROPRIETARY LIGHTING SCHEDULE AND ELECTRICAL	
EXIT LIGHTING	REFER TO ELECTRICAL	
★	CEILING GRID STARTING POINT; IF NOT DESIGNATED, GRID IS TO BE CENTERED IN SPACE	



1 REFLECTED CEILING PLAN
 1/4" = 1'-0"

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 1155 UNION CIRCLE
 DENTON, TX 76203

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REVISION SCHEDULE		
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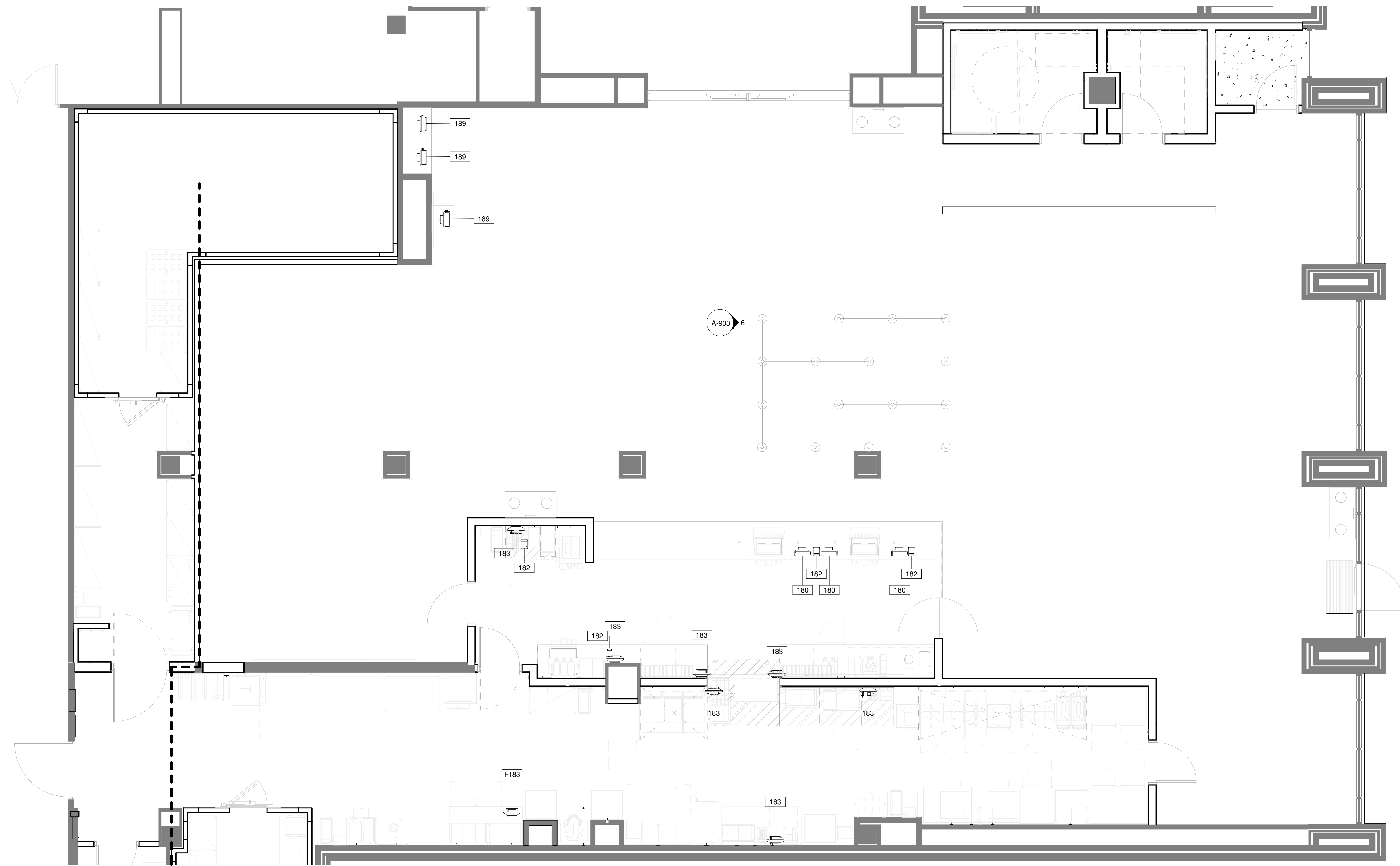
SHEET REFLECTED CEILING PLAN

SHEET NUMBER **A-221**

CONSTRUCTION DOCUMENTS

POS HARDWARE SCHEDULE (ITEMS SUPPLIED BY THE GENERAL CONTRACTOR / FOOD SERVICE PROVIDER)																	
ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	ELECTRICAL					MECHANICAL				PLUMBING		REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)		
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW		ROUGH-IN	
180	3	ORDER REGISTER	GC/FSP VENDOR	120	1		0.70		5-20P							180	
182	4	RECEIPT PRINTER	GC/FSP VENDOR	120	1		1.80		5-20P							182	PROVIDE WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	3	LABEL PRINTER	GC/FSP VENDOR	120	1		1.7		5-20P							182L	PROVID WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	7	ORDER MONITOR	GC/FSP VENDOR	120	1		0.125		5-20P							183	
183a	7	RADIAL ARM	GC/FSP VENDOR													183a	USED TO MOUNT ORDER MONITORS - NOT SHOWN ON PLAN

FUTURE POS HARDWARE EQUIPMENT SCHEDULE																	
ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	ELECTRICAL					MECHANICAL				PLUMBING		REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)		
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW		ROUGH-IN	
F182L	1	FUTURE LABEL PRINTER	GC/FSP VENDOR	120	1		1.7		5-20P							F182L	PROVIDE WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
F183	1	FUTURE ORDER MONITOR	GC/FSP VENDOR	120	1		0.10		5-20P							F183	
F183a	1	FUTURE RADIAL ARM	GC/FSP VENDOR													F183a	USED TO MOUNT ORDER MONITORS - NOT SHOWN IN PLAN



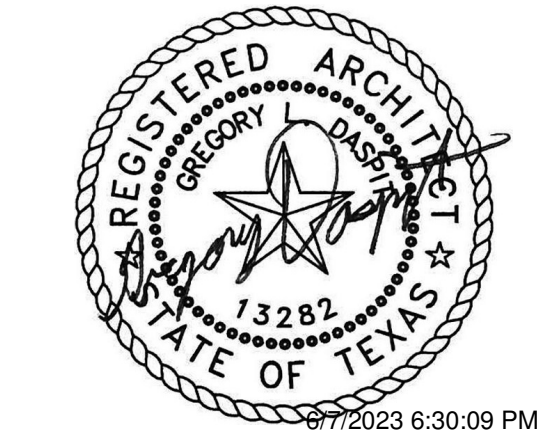
1 POS HARDWARE TECHNOLOGY PLAN
1/4" = 1'-0"



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 SHEET
 POS HARDWARE TECHNOLOGY PLAN & SCHEDULE
 SHEET NUMBER

A-501

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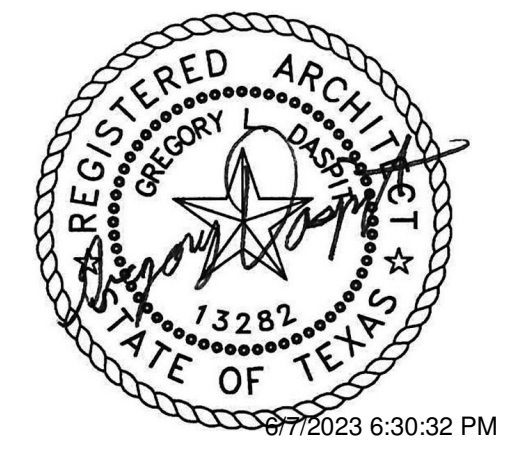
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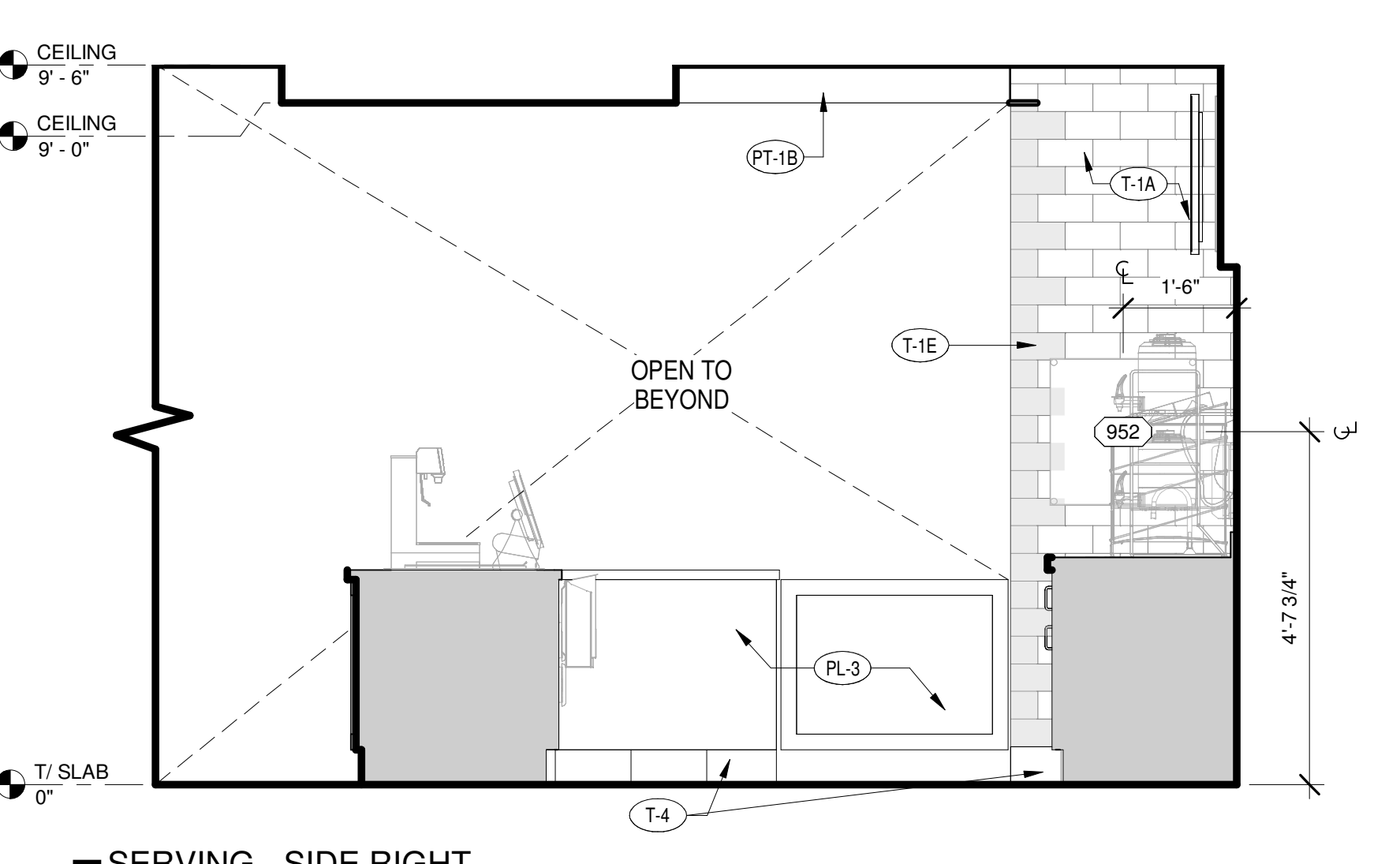
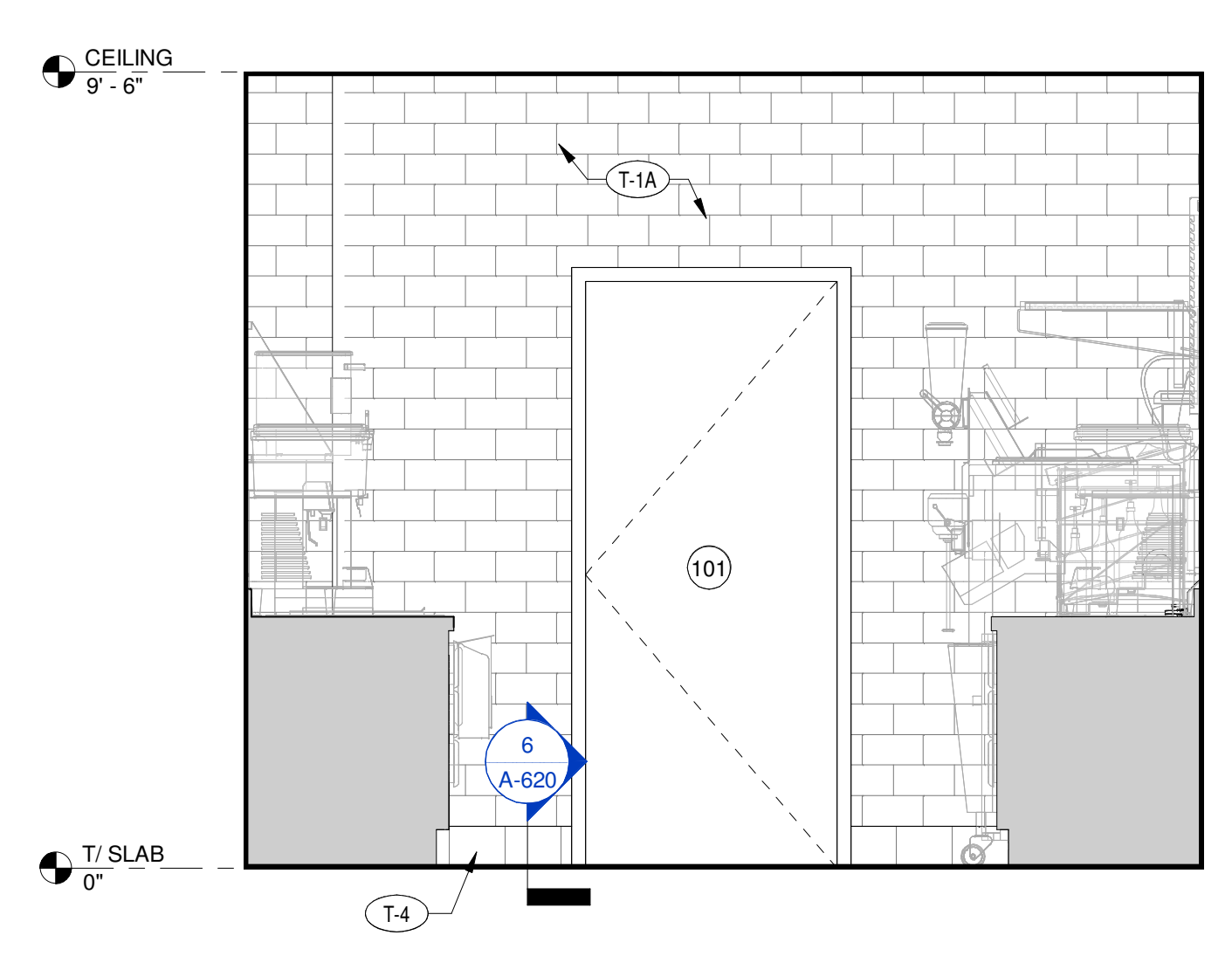
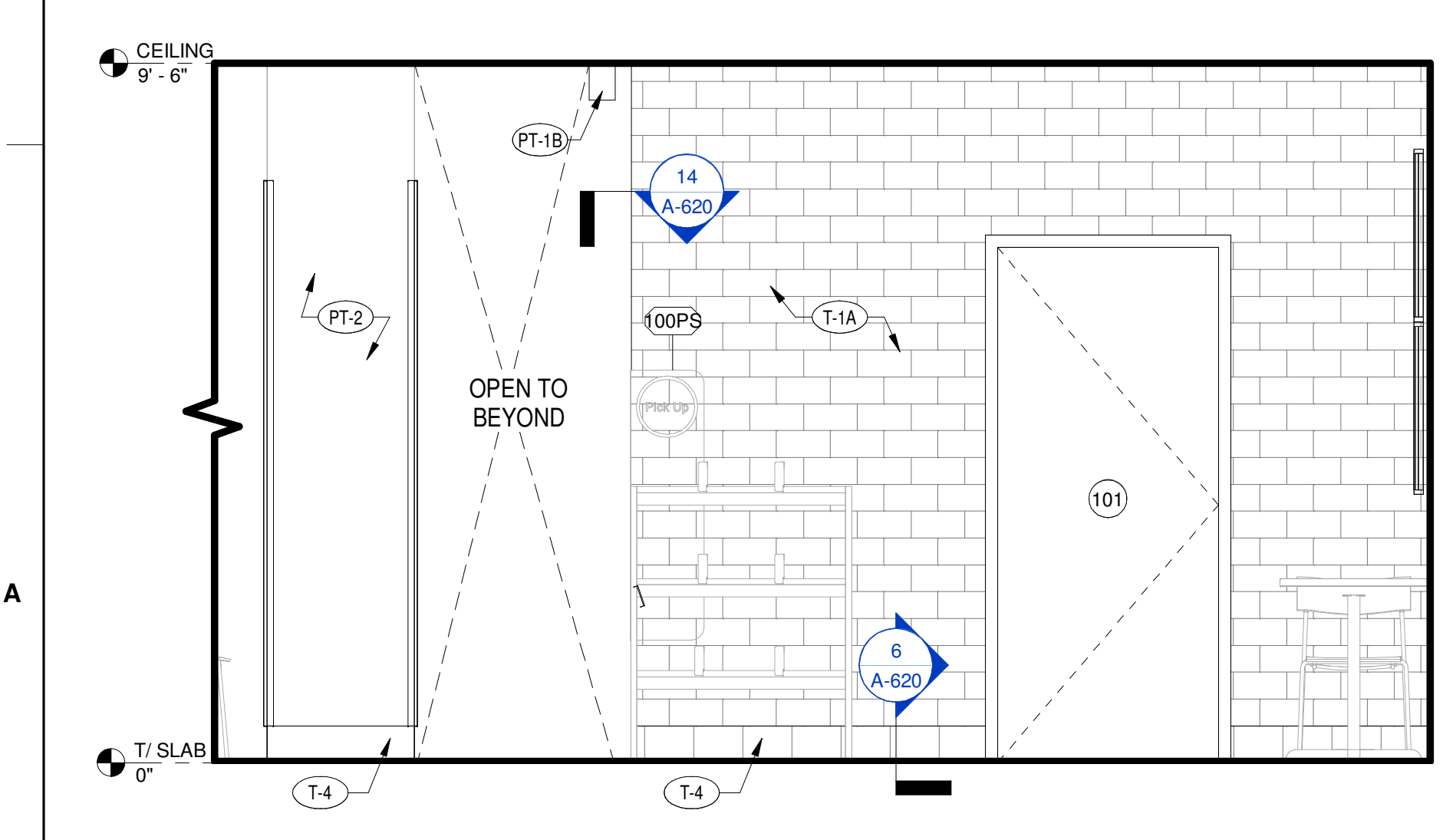
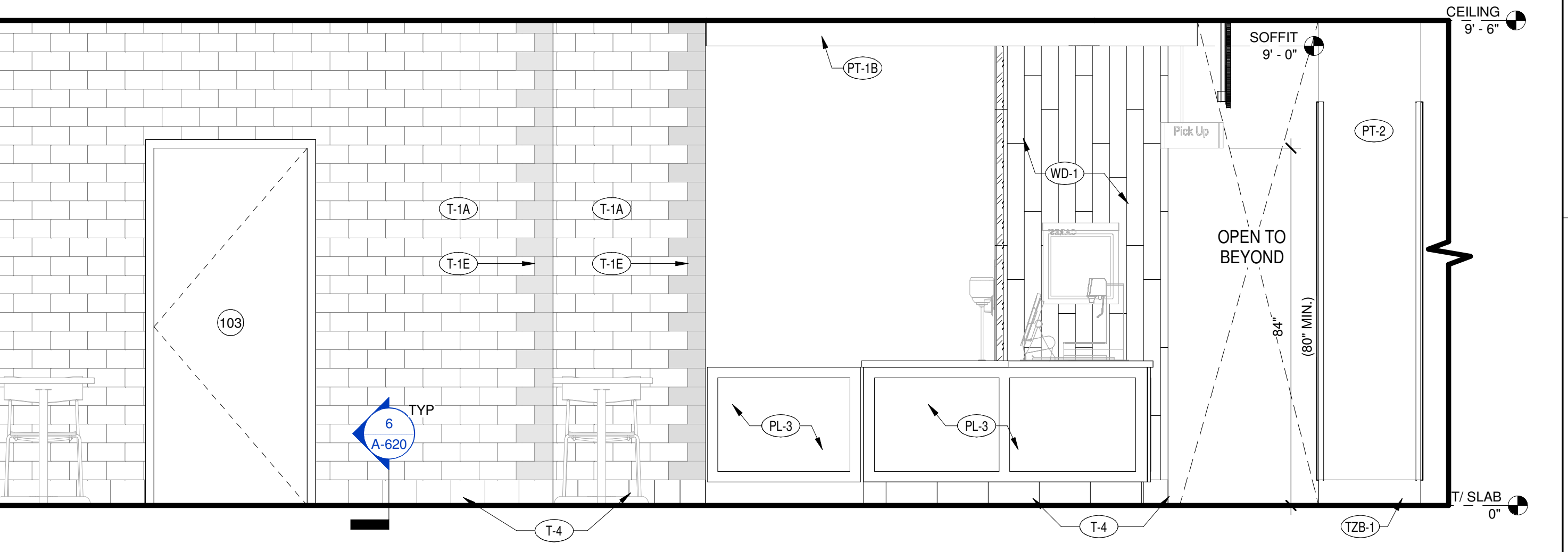
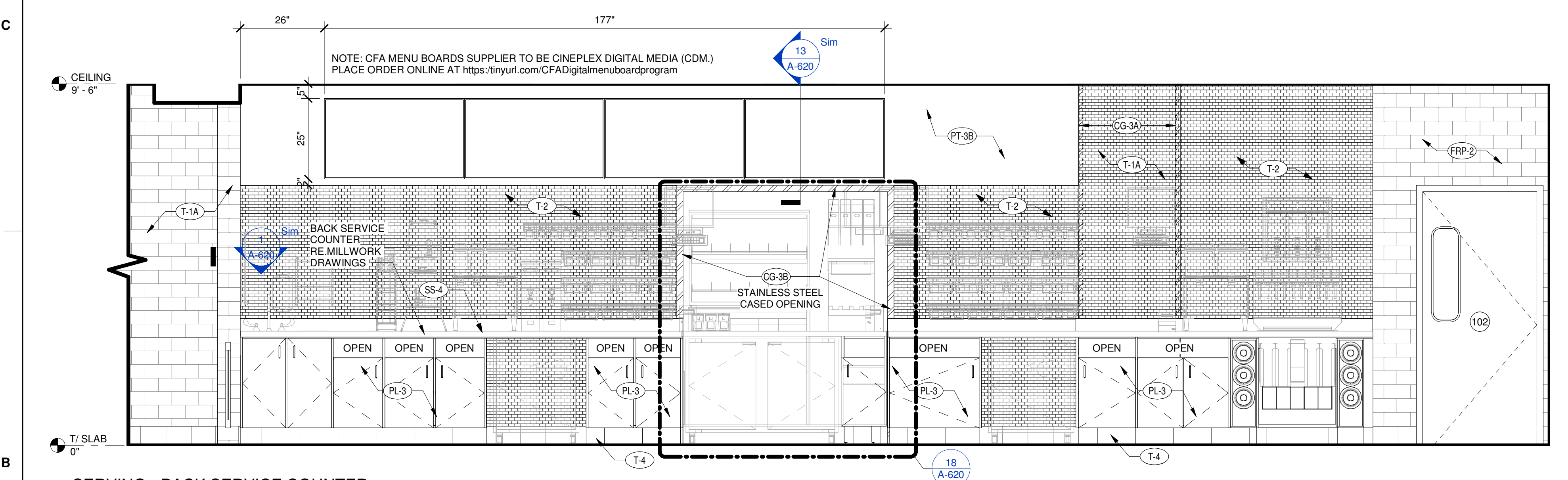
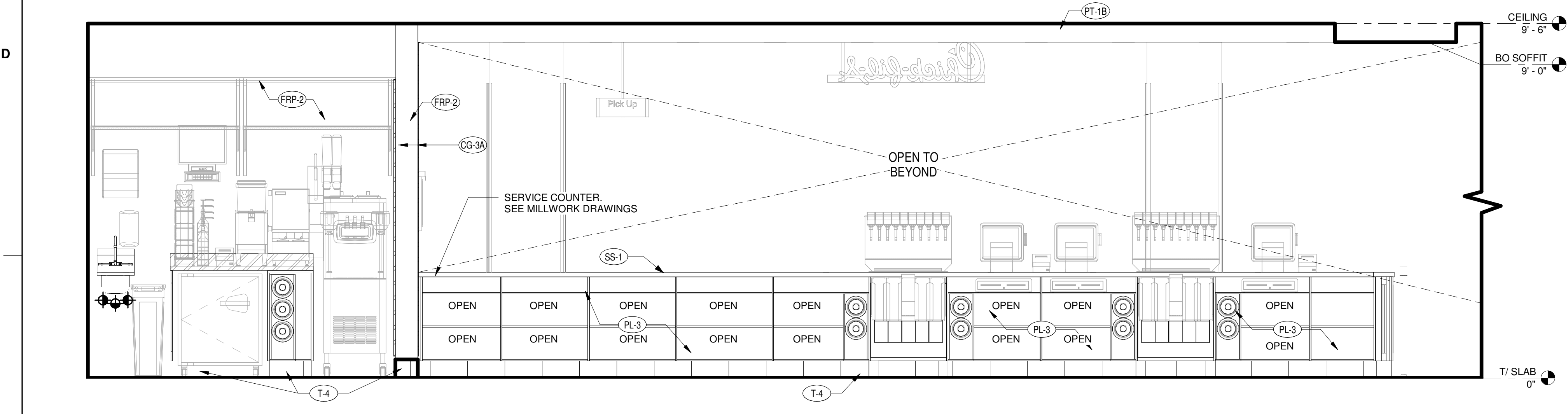
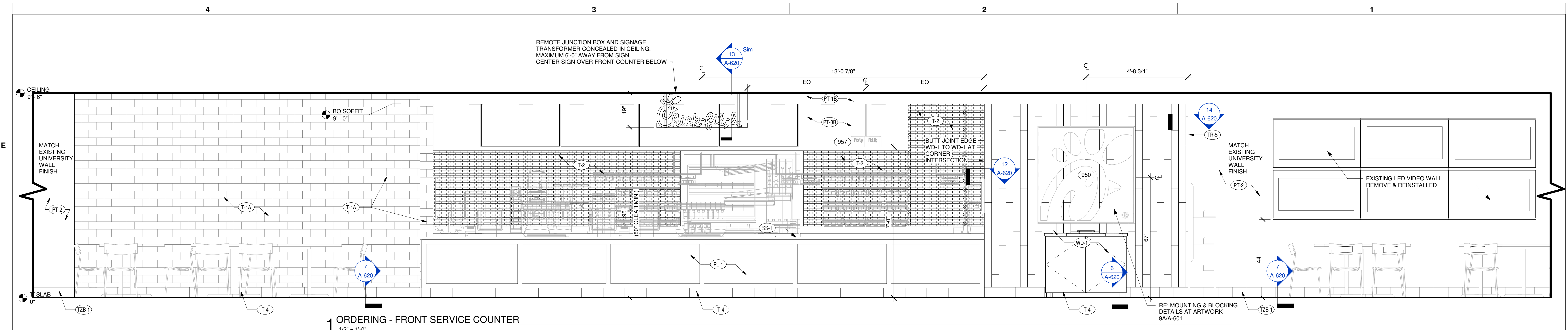
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INTERIOR ELEVATIONS

SHEET NUMBER
A-601



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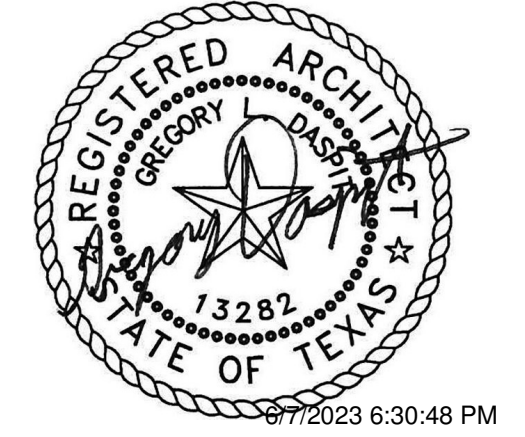


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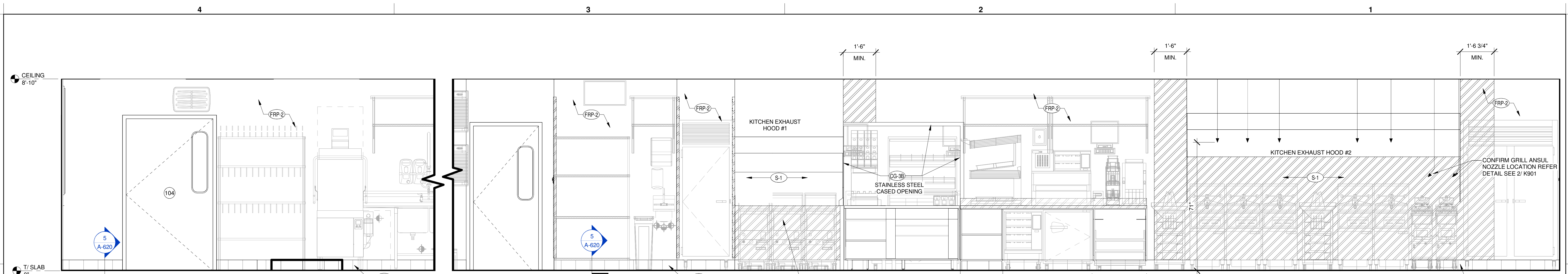
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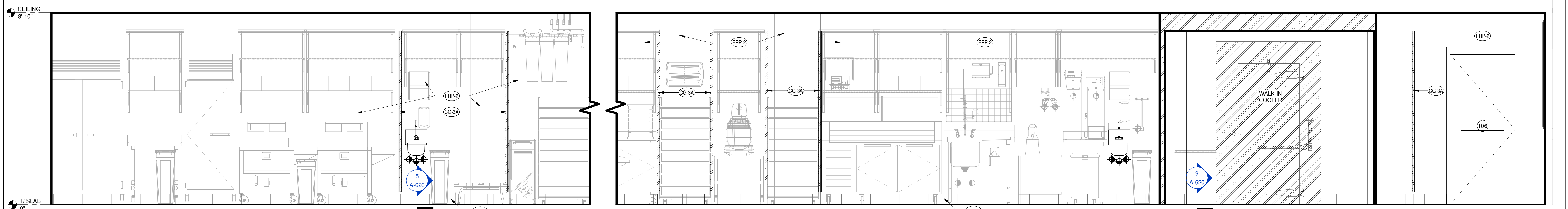
SHEET INTERIOR ELEVATIONS

SHEET NUMBER

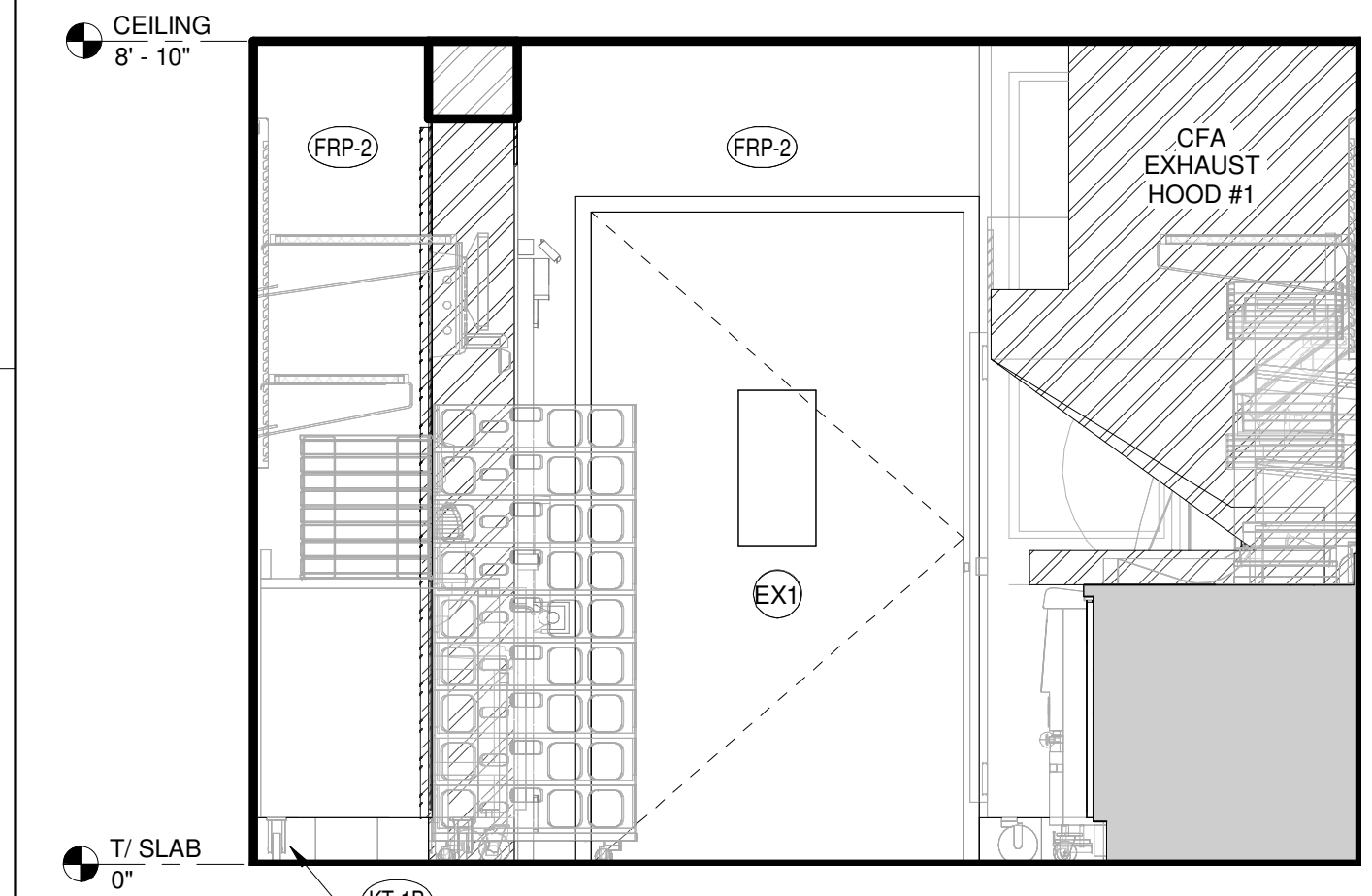
A-602



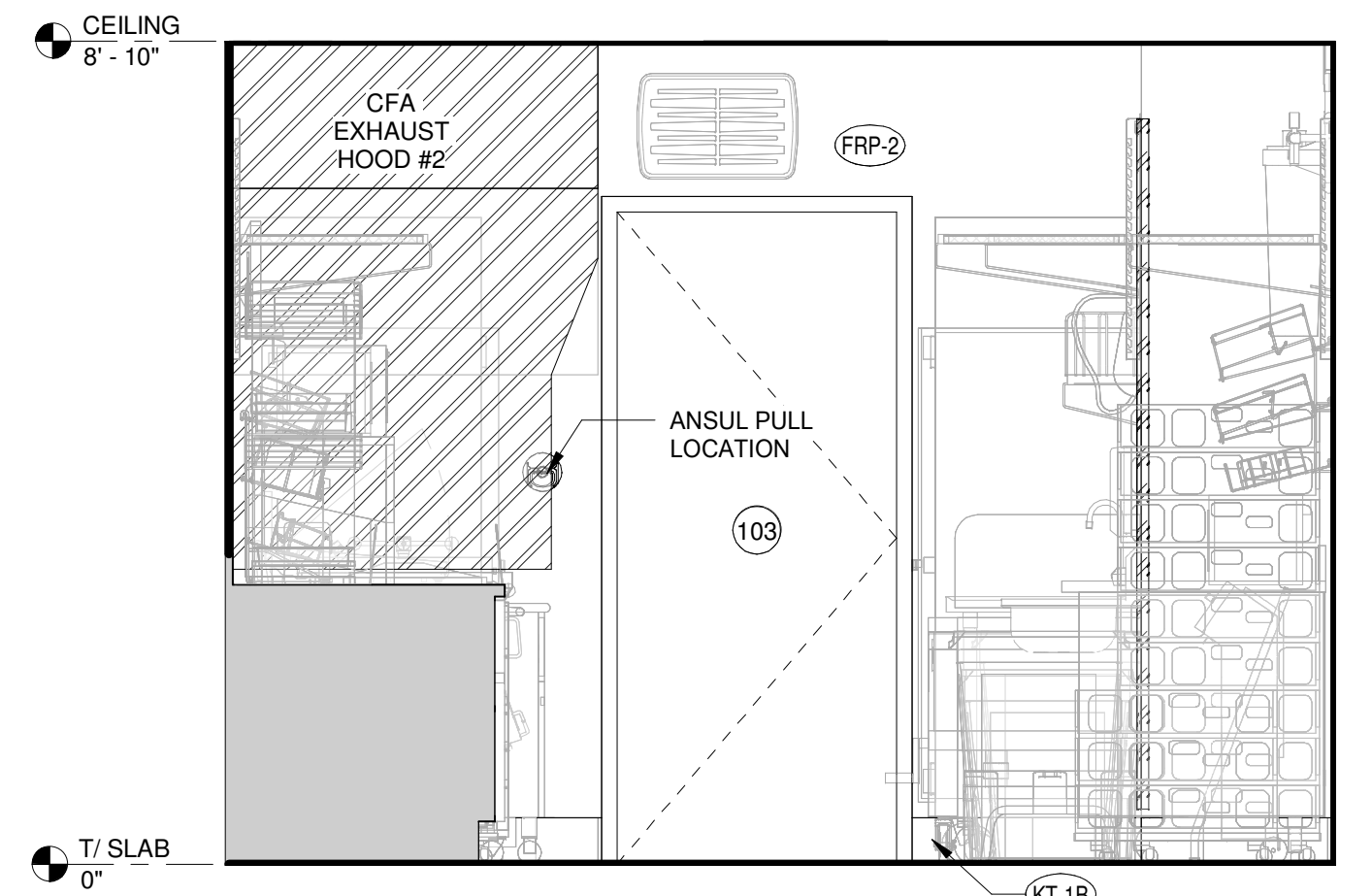
5 KITCHEN - BOARDS & EXHAUST HOODS - NORTH
1/2" = 1'-0"



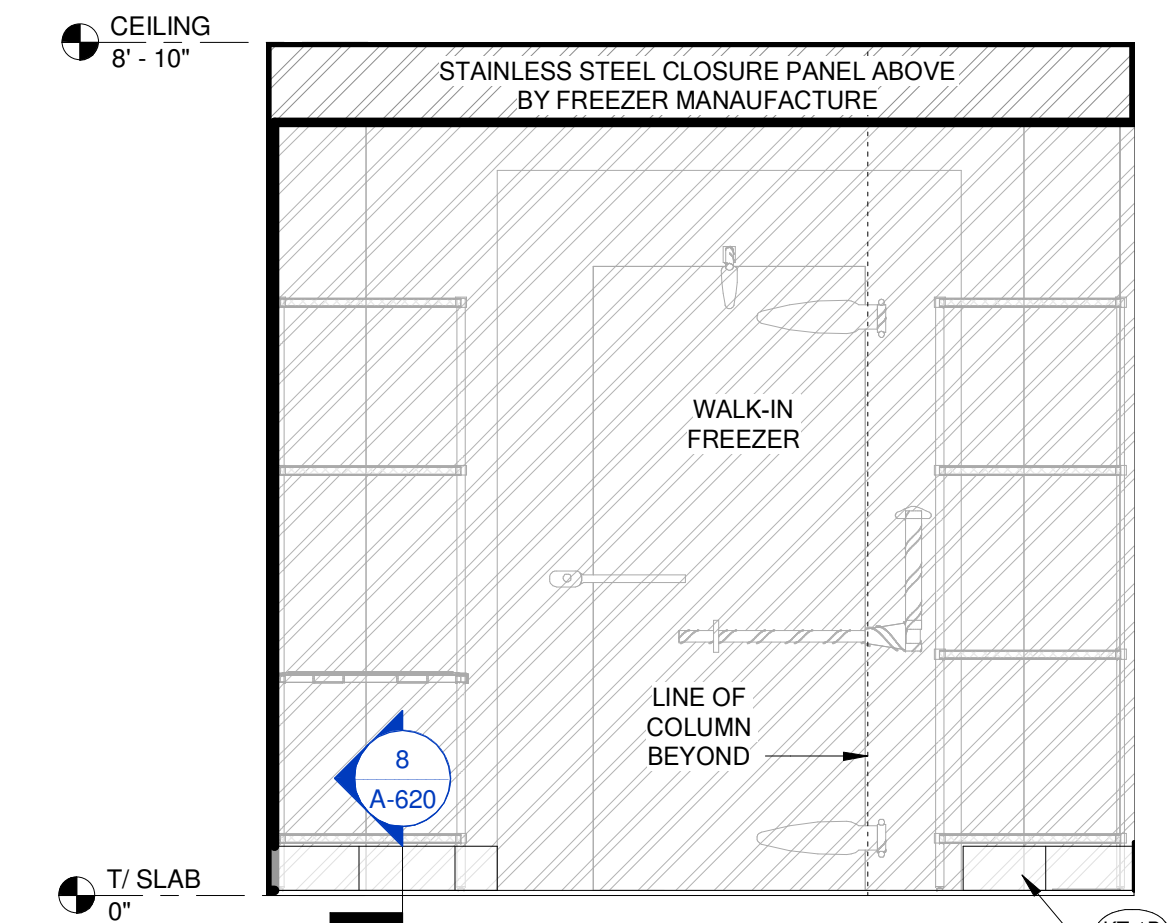
6 KITCHEN - BACK WALL - SOUTH
1/2" = 1'-0"



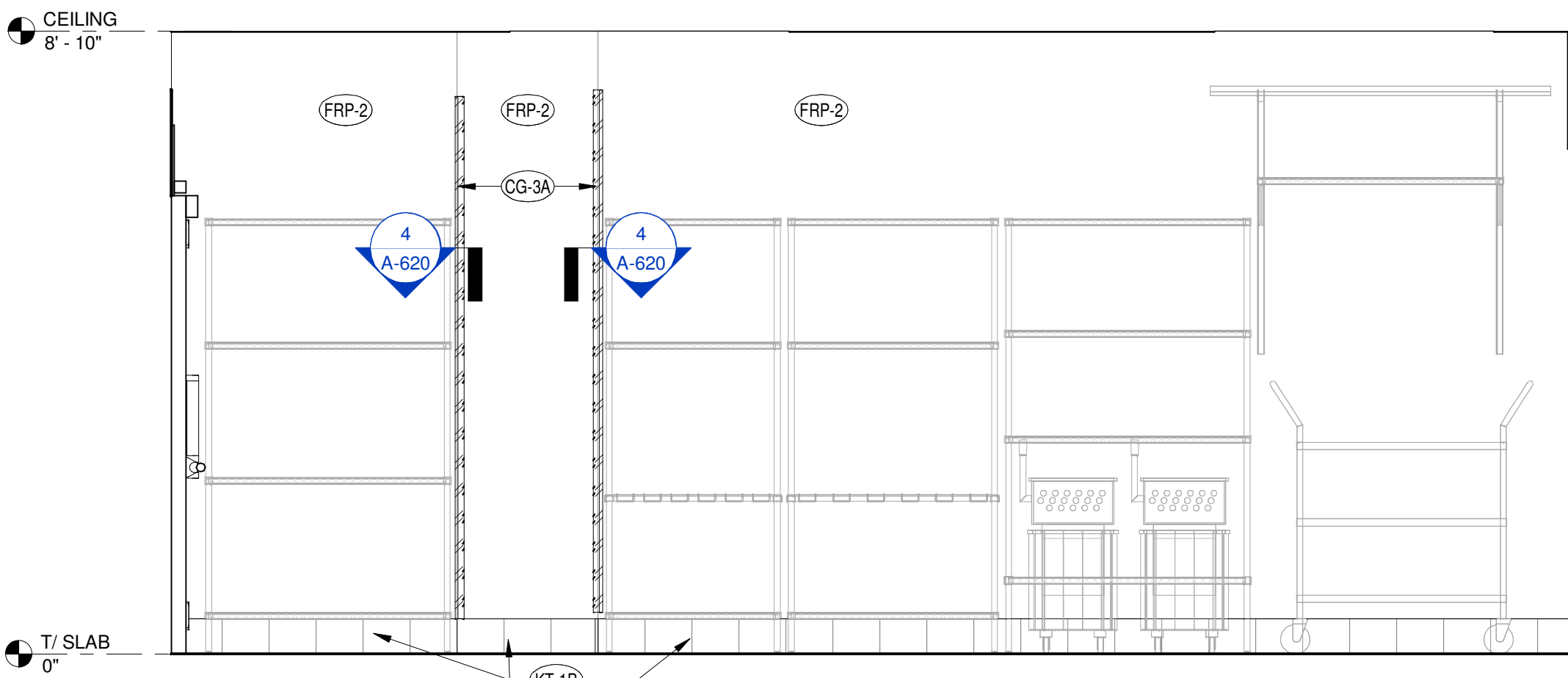
7 KITCHEN - PLAN WEST
1/2" = 1'-0"



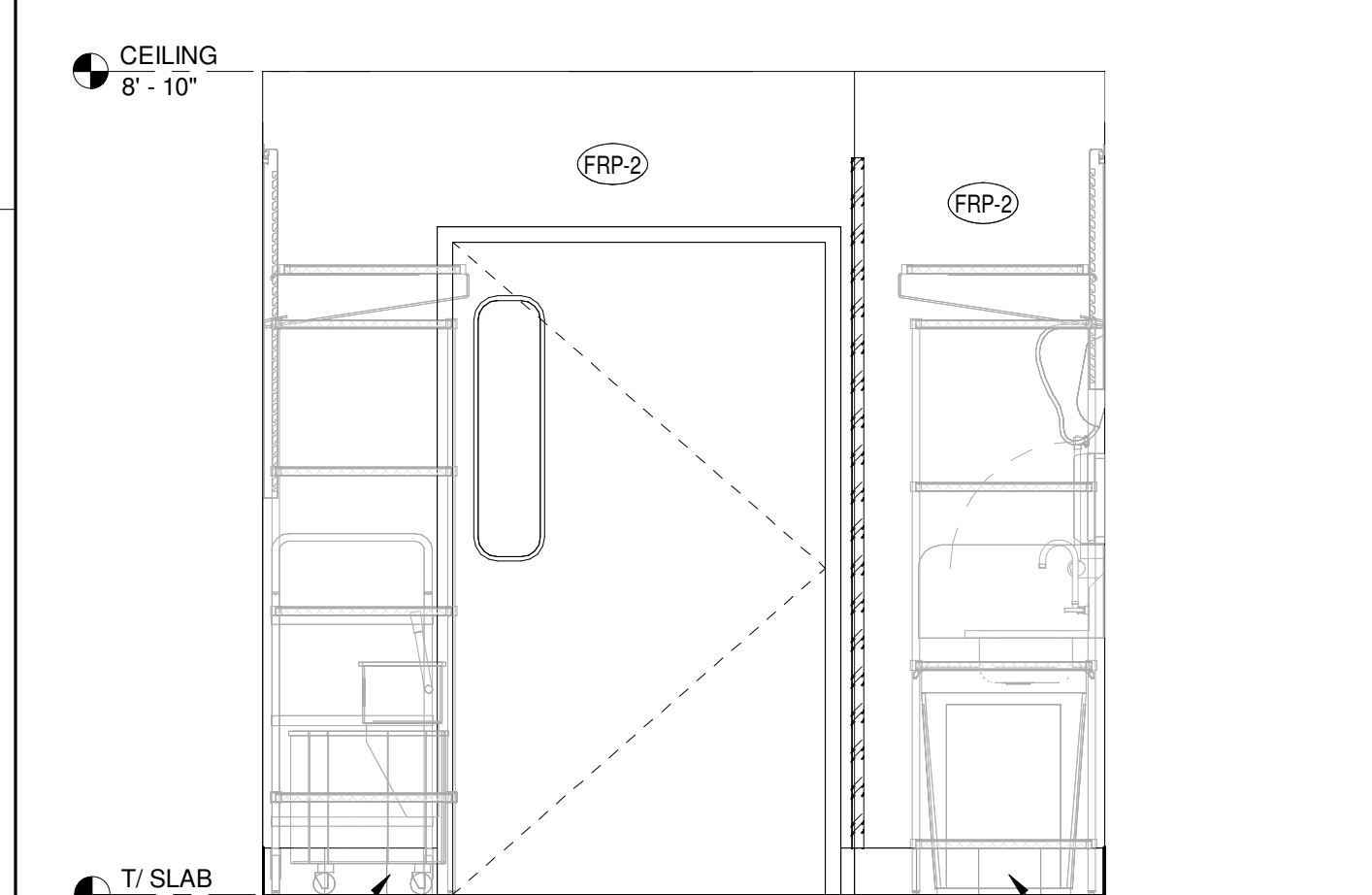
8 KITCHEN - PLAN EAST
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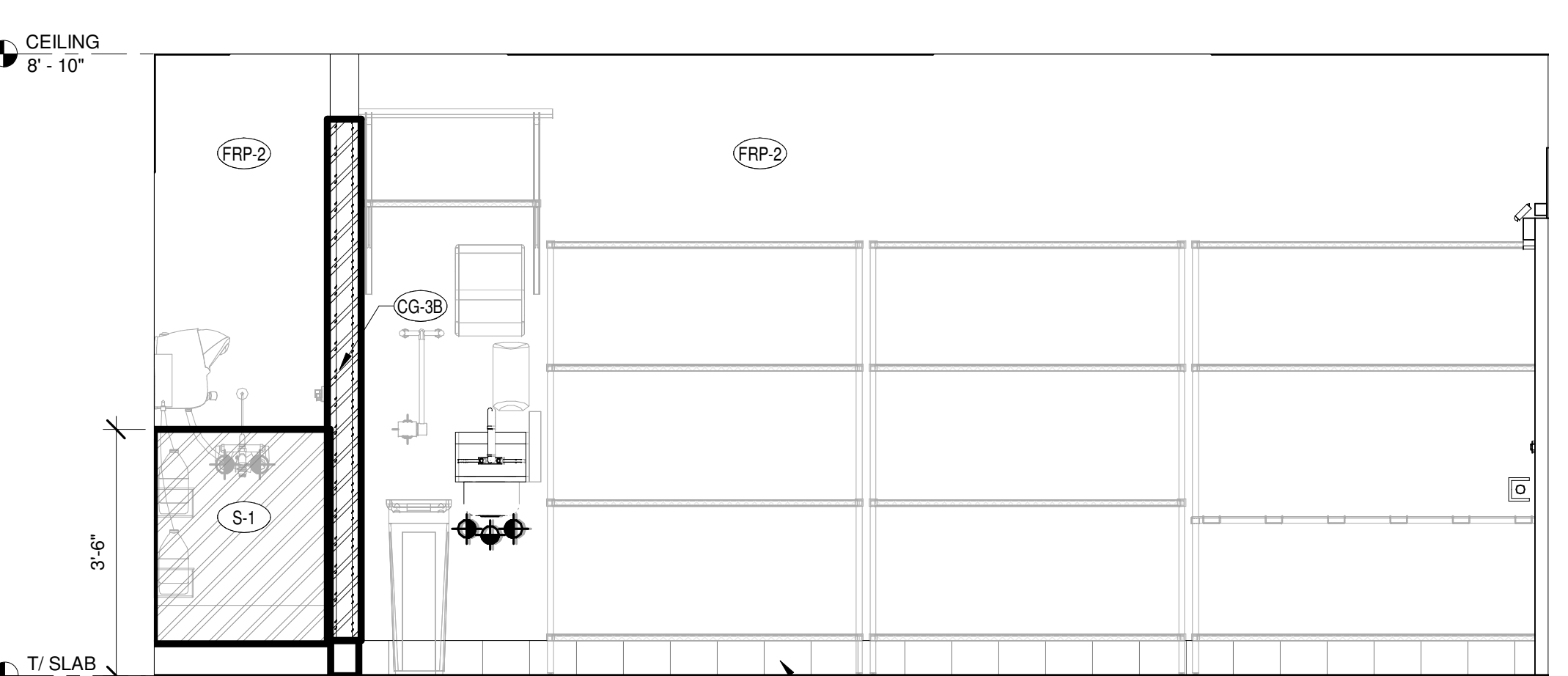
9 DRY STORAGE - PLAN NORTH
1/2" = 1'-0"



11 DRY STORAGE - PLAN EAST.
1/2" = 1'-0"



10 DRY STORAGE - PLAN SOUTH
1/2" = 1'-0"



12 DRY STORAGE - PLAN WEST
1/2" = 1'-0"

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80307-A-602-INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS

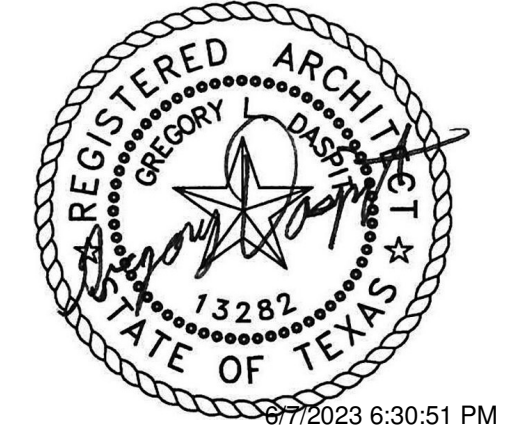


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2	06.02.2023	UNIT REVIEW REV-2

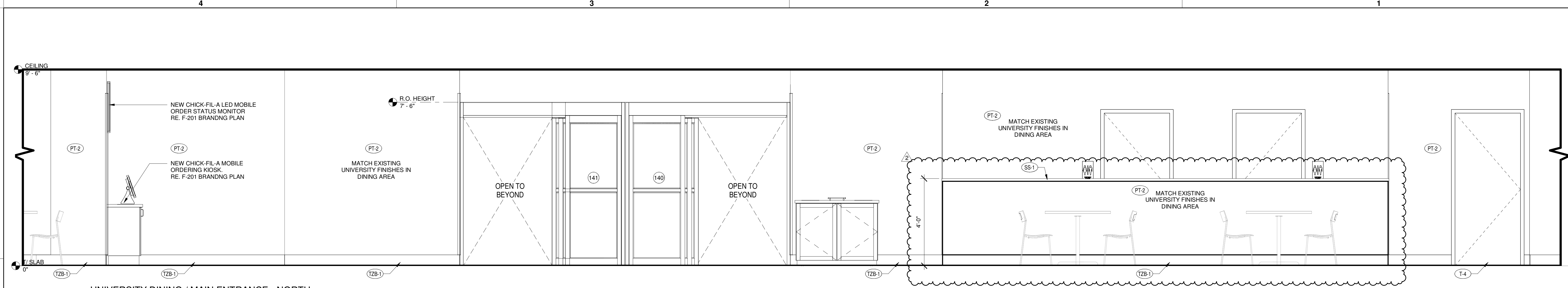
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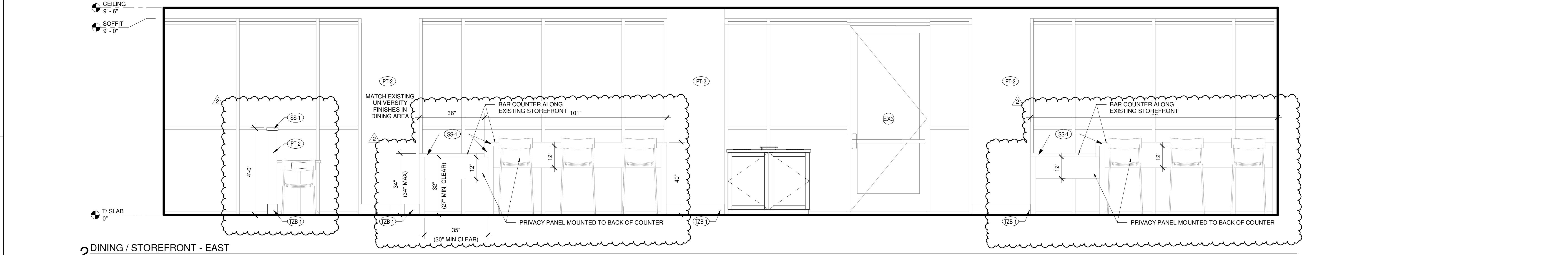
SHEET INTERIOR ELEVATIONS

SHEET NUMBER

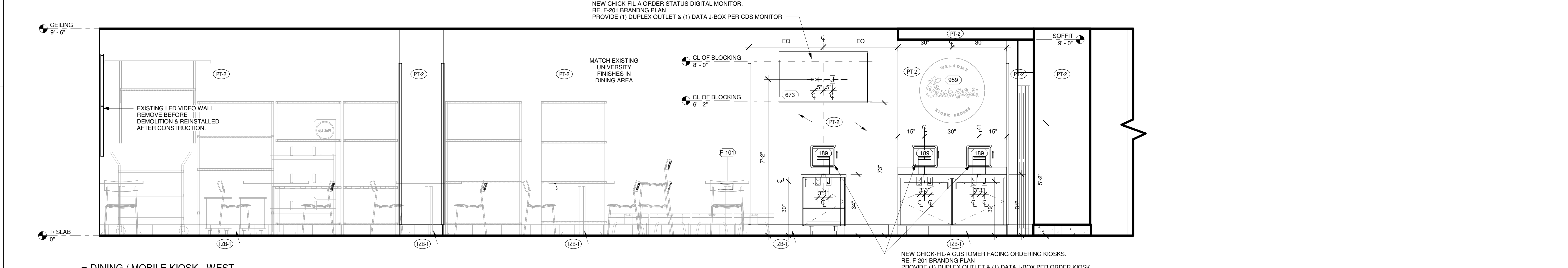
A-603



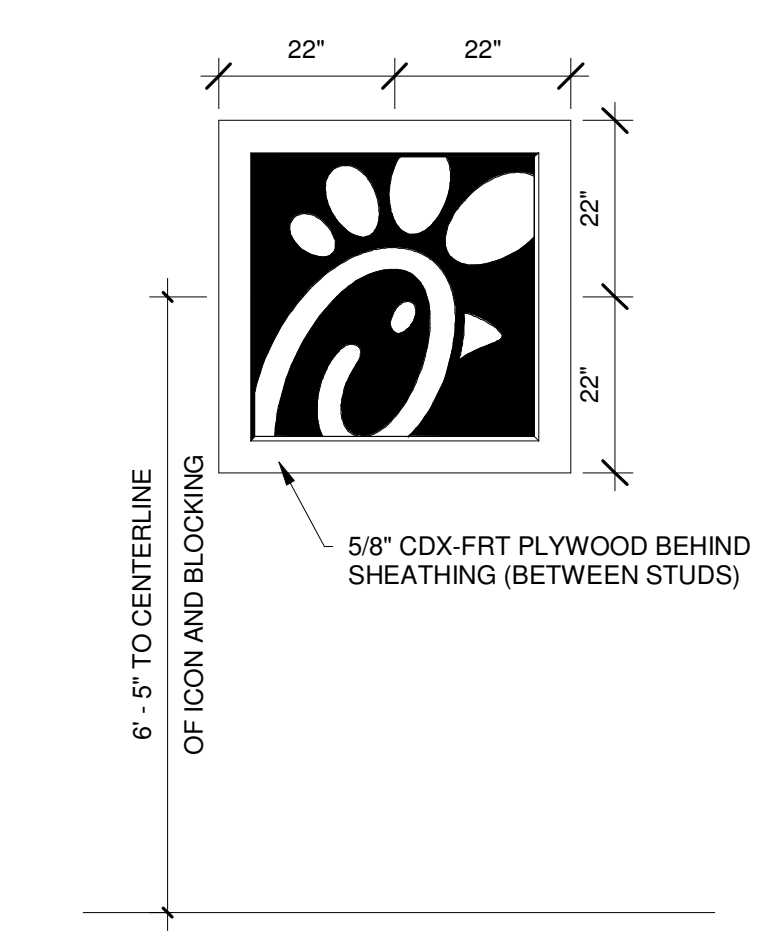
1 UNIVERSITY DINING / MAIN ENTRANCE - NORTH
1/2" = 1'-0"



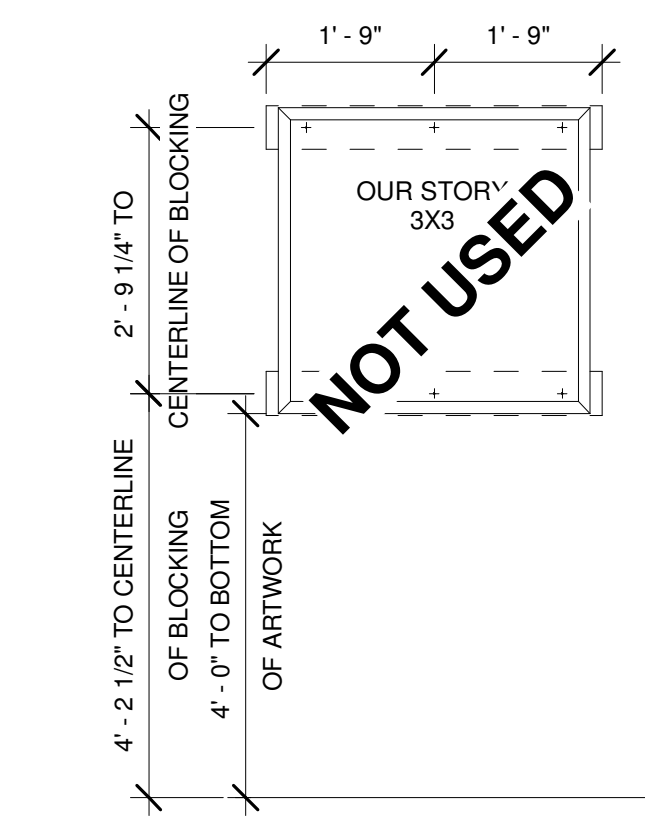
2 DINING / STOREFRONT - EAST
1/2" = 1'-0"



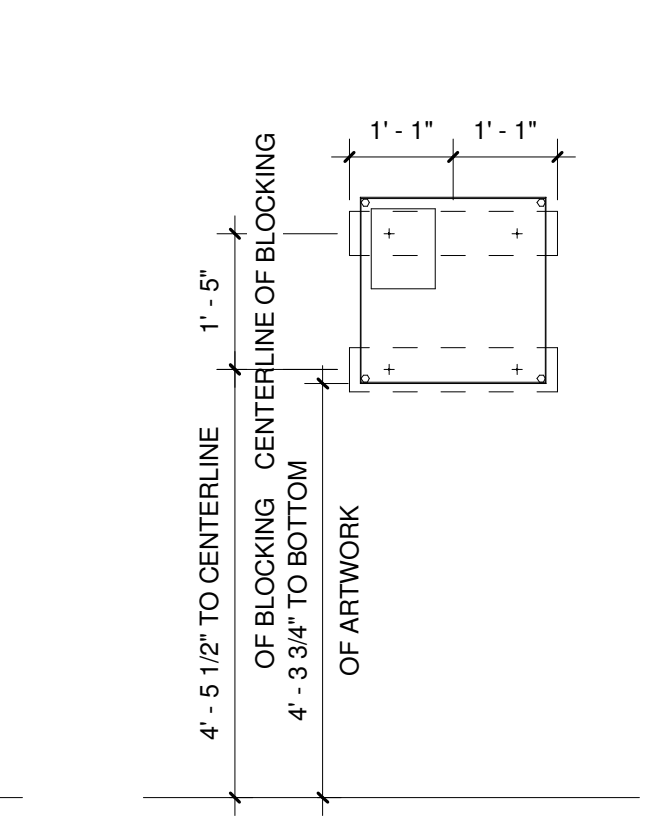
3 DINING / MOBILE KIOSK - WEST
1/2" = 1'-0"



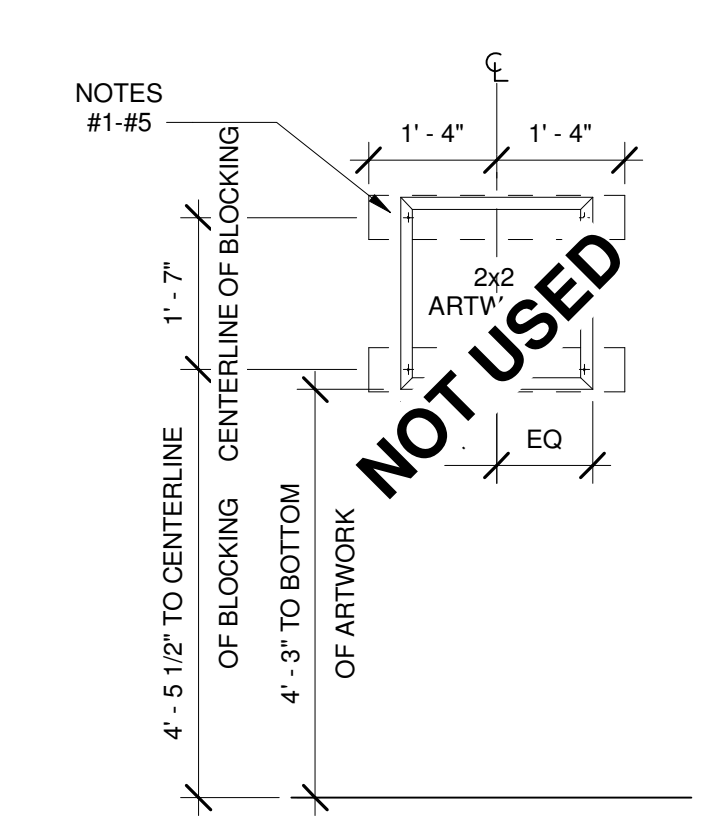
A AICON 950-4
N.T.S.



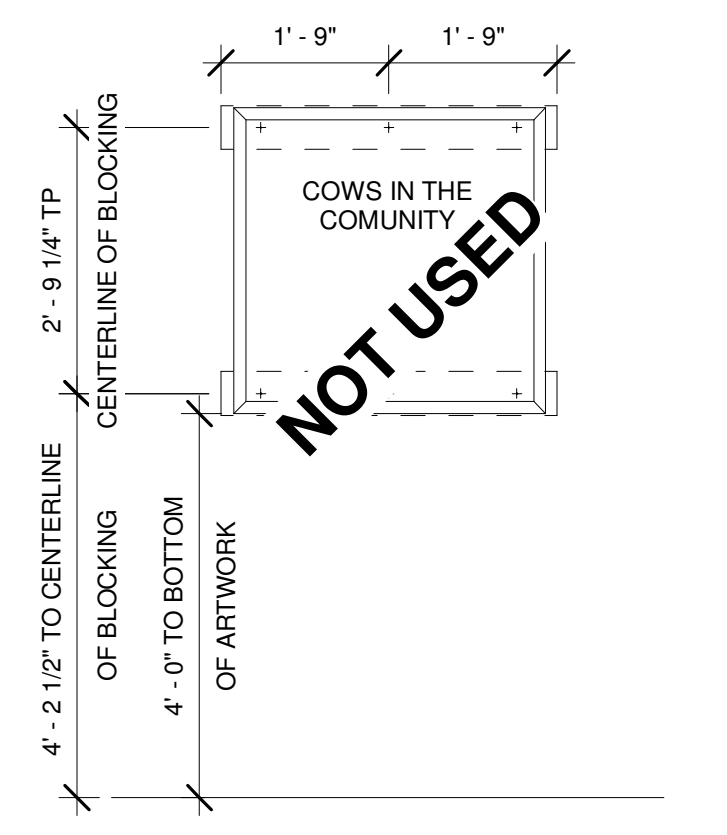
B HISTORY BOX 951-2
N.T.S.



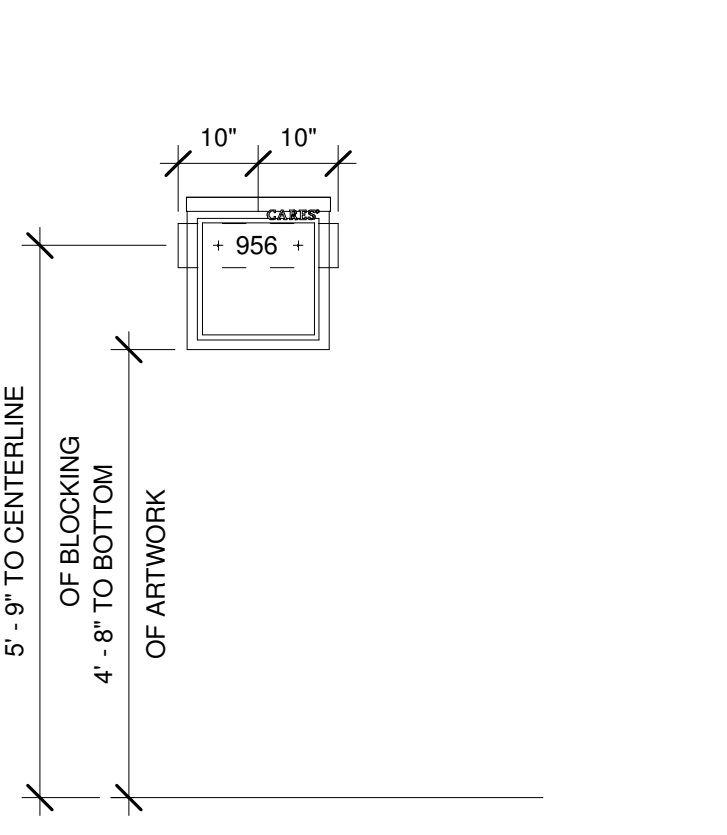
C ITEM 952
N.T.S.



D ARTWORK 954-3
N.T.S.



E COWS IN THE COMMUNITY 955-2
N.T.S.



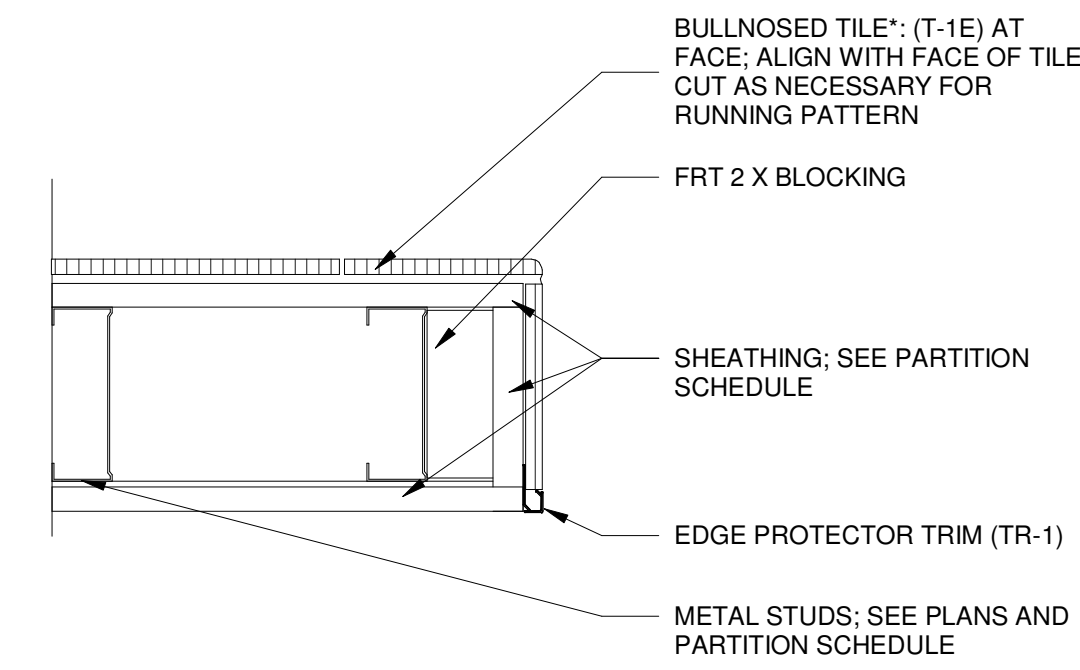
F ITEM 956
N.T.S.

- ARTWORK NOTES:
- CENTER ARTWORK ON BATTEN BELOW AS NOTED.
 - ALL BLOCKING TO BE FIRE-RETARDANT TREATED. SIZE TO BE 2X6 UNLESS OTHERWISE NOTED.
 - PROVIDE SURFACE MOUNTED BLOCKING TO ALIGN WITH FACE OF WAINSCOTING BEHIND SIGN. PAINT TO MATCH WALL BEHIND.
 - NO BLOCKING REQUIRED AT WAINSCOTING OR WOOD (WD-1) WALLS.

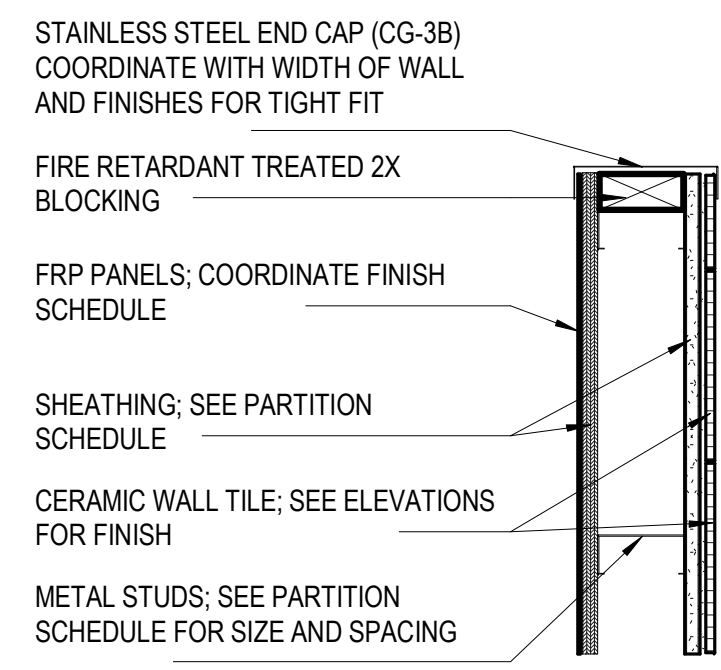
MOUNTING AND BLOCKING DETAILS AT ARTWORK

BIM: 360:/TX_80307_University of North Texas_2021.12_SAT80307_University of North Texas_RELOCATION_ARC.rvt
6/7/2023 6:30:51 PM
80307-A-603-INTERIOR ELEVATIONS

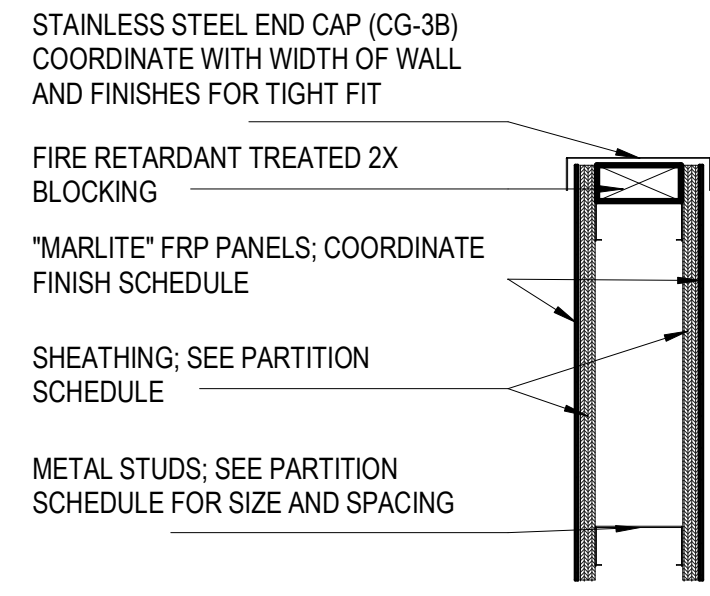
CONSTRUCTION DOCUMENTS



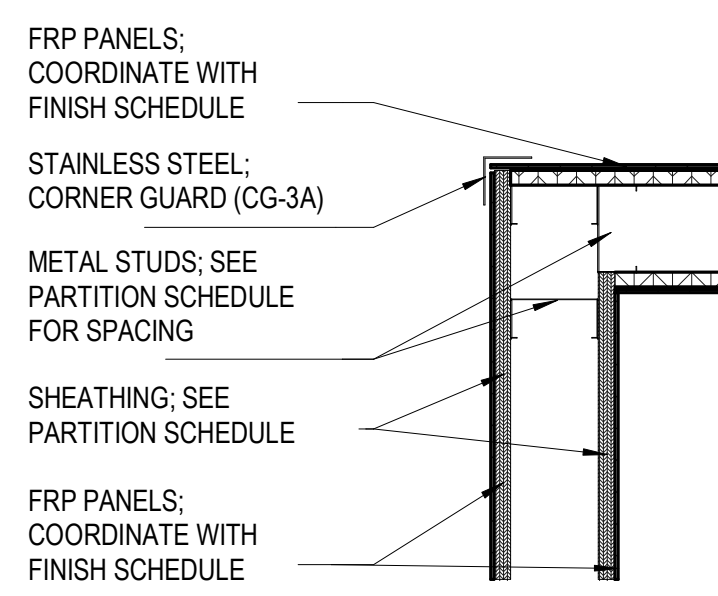
1 DETAIL: (T-1E) TILE AT WALL END/ POCKET DOOR
3' = 1'-0"



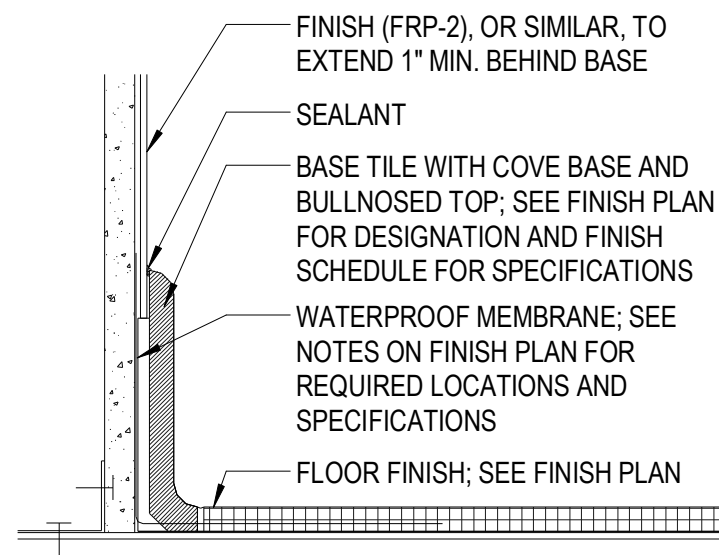
2 DETAIL: (CG-3B) AT TILE
1 1/2' = 1'-0"



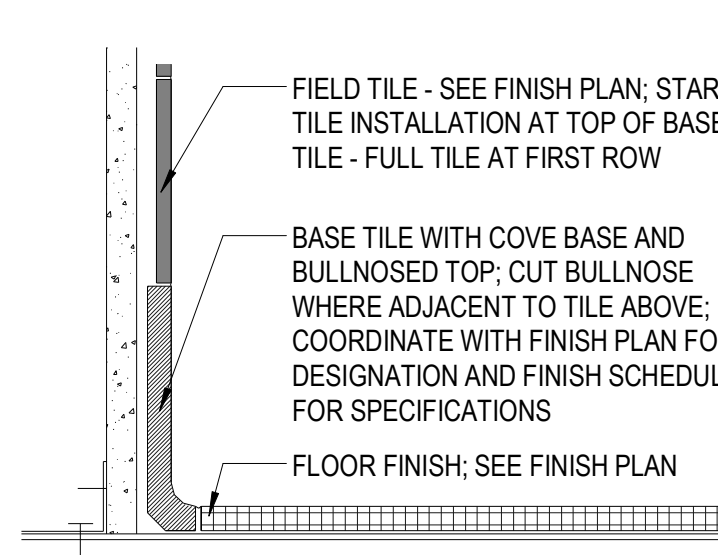
3 DETAIL: (CG-3B) AT FRP
1 1/2' = 1'-0"



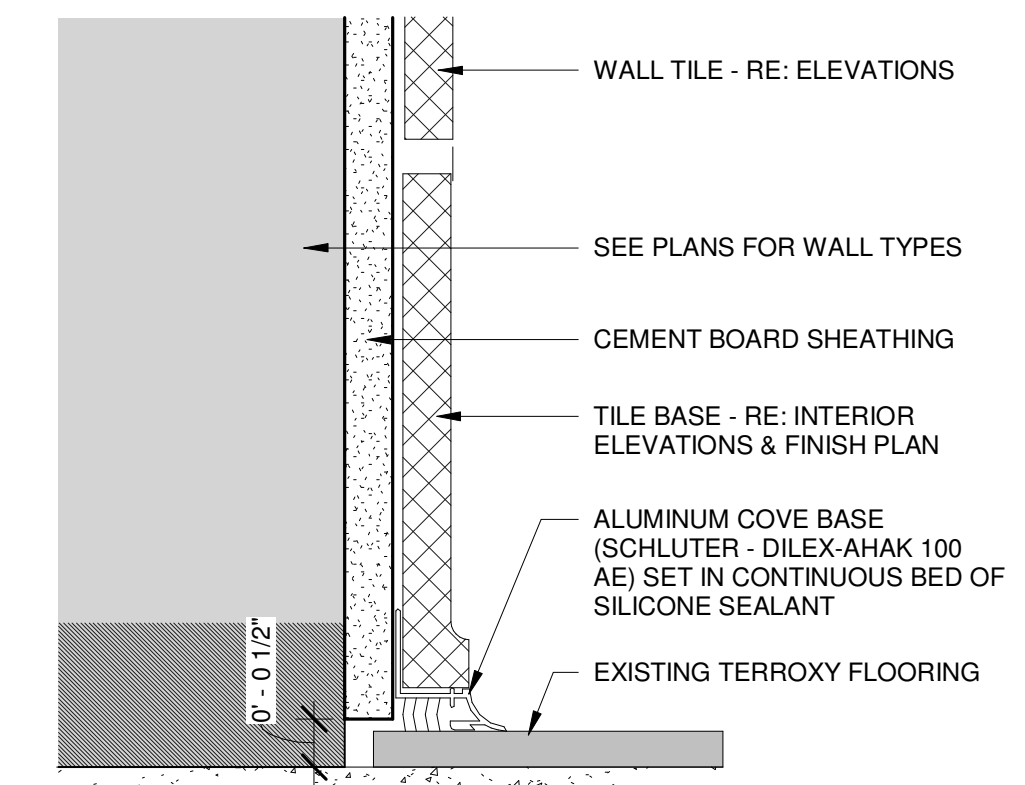
4 DETAIL: (CG-3A) CORNER GUARD
1 1/2' = 1'-0"



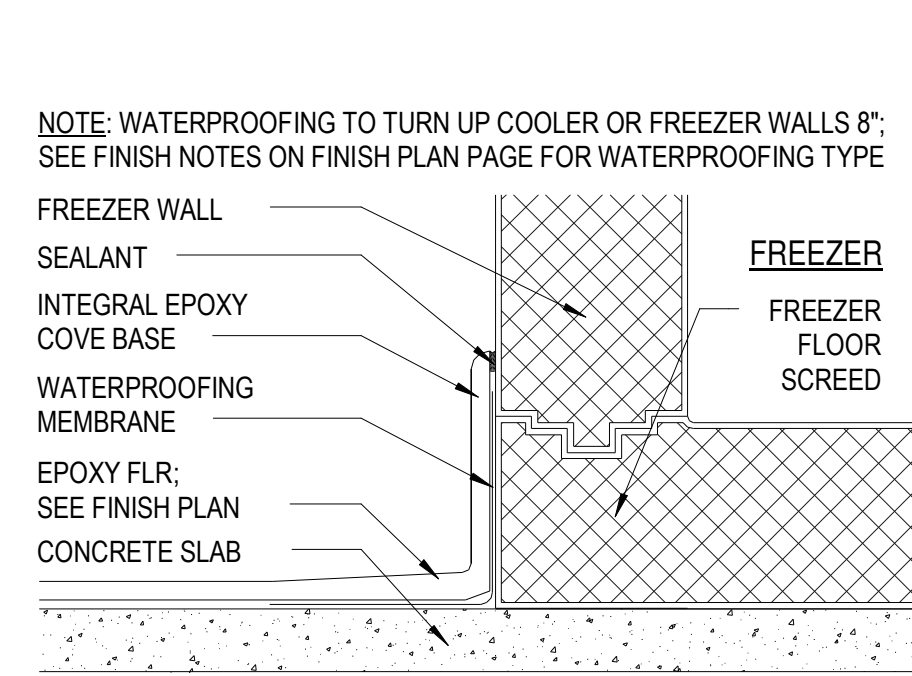
5 DETAIL: BASE TILE AT FRP
3' = 1'-0"



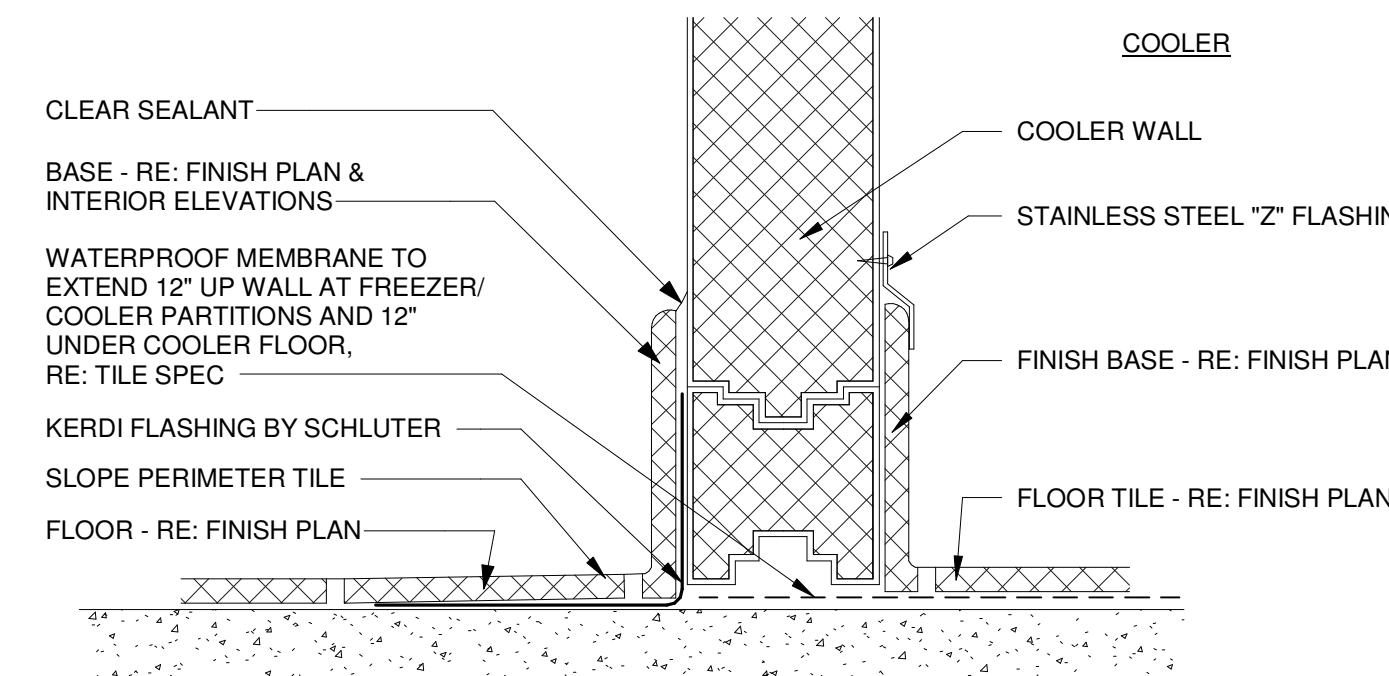
6 DETAIL: BASE TILE AT TILE
3' = 1'-0"



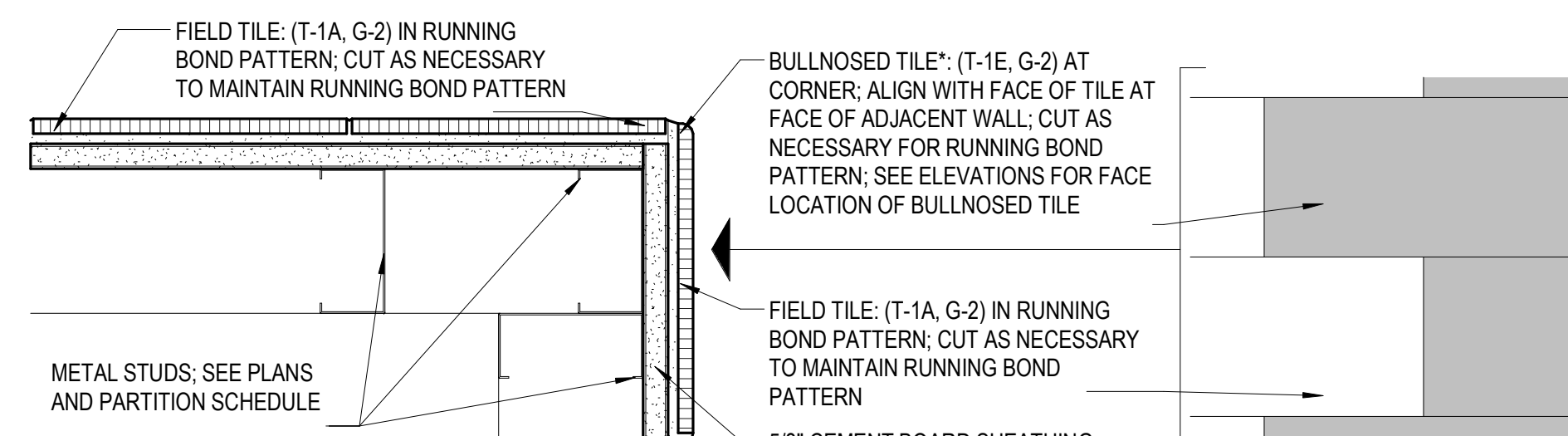
7 DETAIL: BASE TILE AT TILE W/ TERRAZZO
6' = 1'-0"



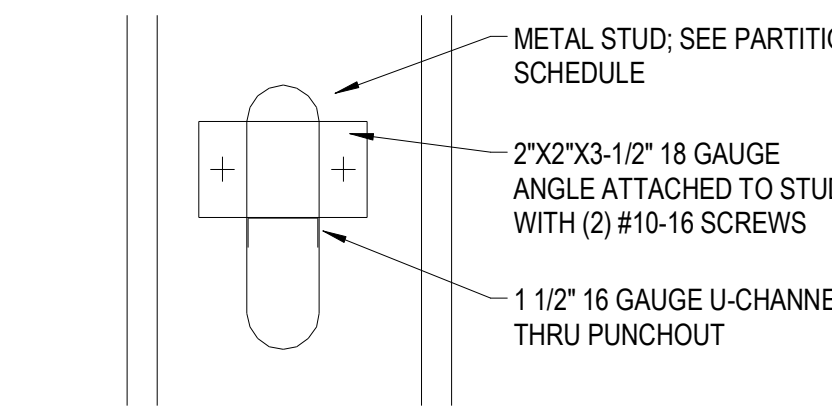
8 DETAIL: BASE TILE AT FREEZER
3' = 1'-0"



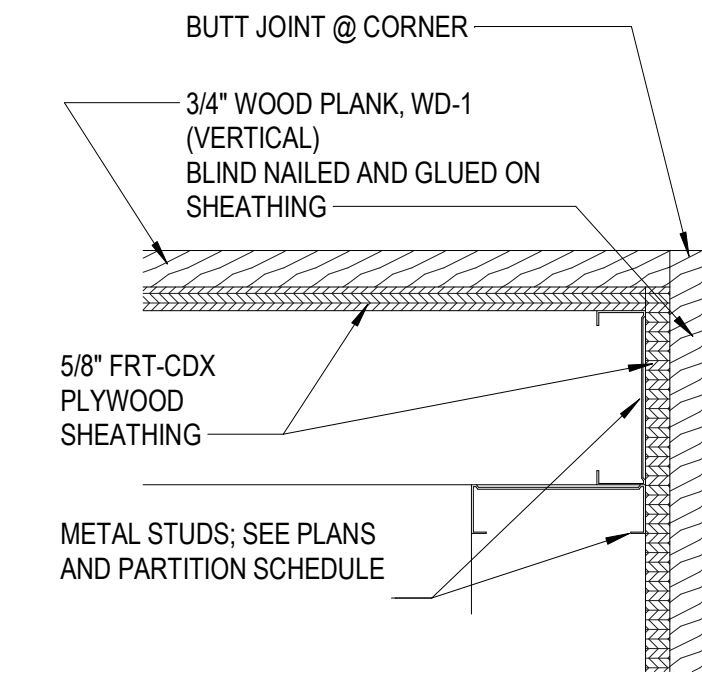
9 DETAIL: BASE TILE AT COOLER
3' = 1'-0"



10 DETAIL: BULLNOSE TILE AT CORNER
3' = 1'-0"

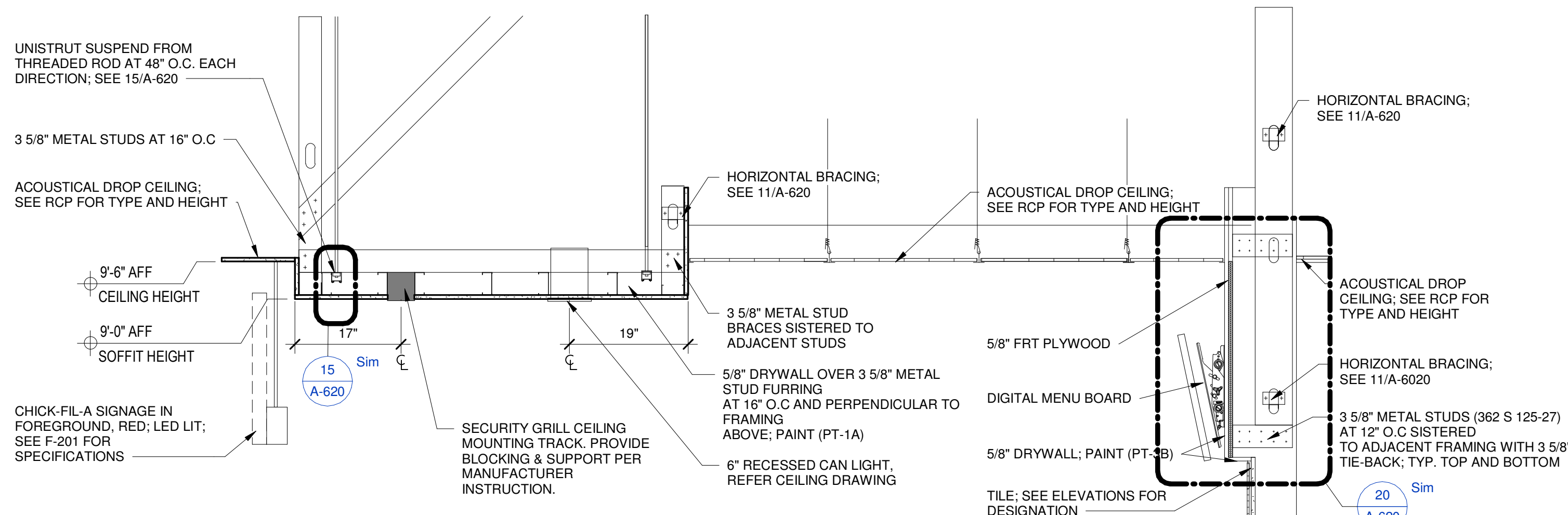


11 DETAIL: BRIDGING
3' = 1'-0"

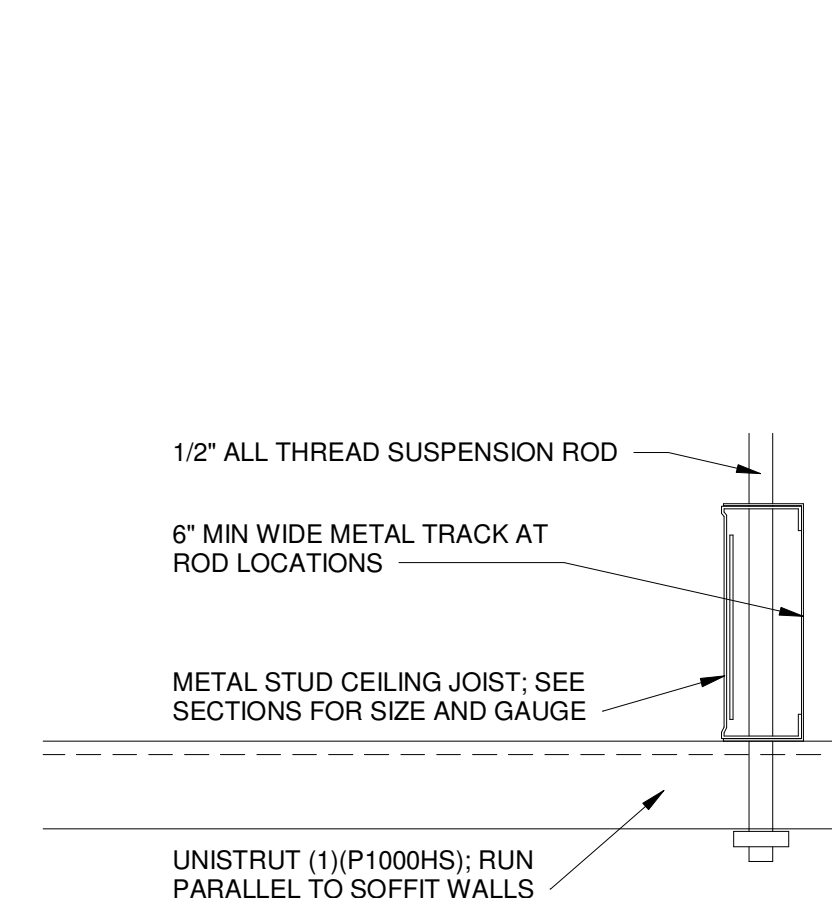


12 DETAIL: WOOD CORNER @ BUTT JOINT
3' = 1'-0"

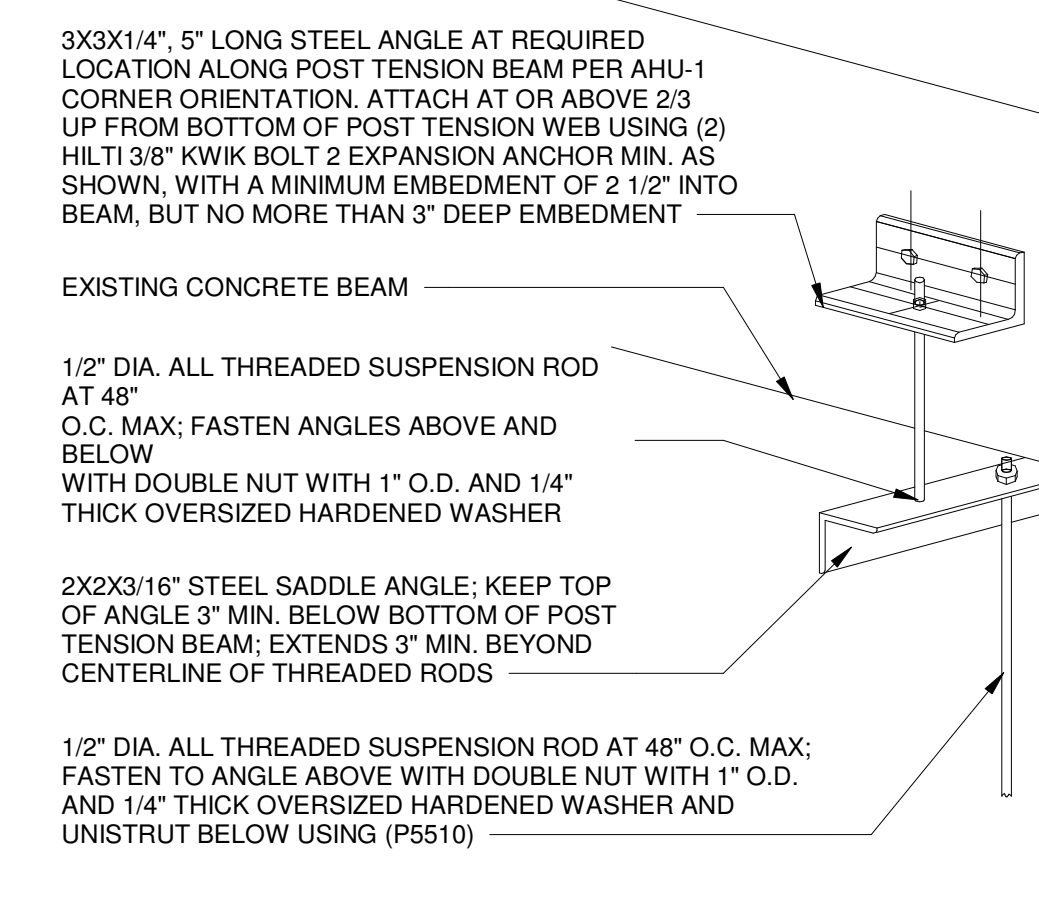
NOTE: PROVIDE TRACK (SIZED TO MATCH STUDS) AT CONNECTIONS TO KICKERS AND CROSS BRACING AS NEEDED; TYPICAL ALL



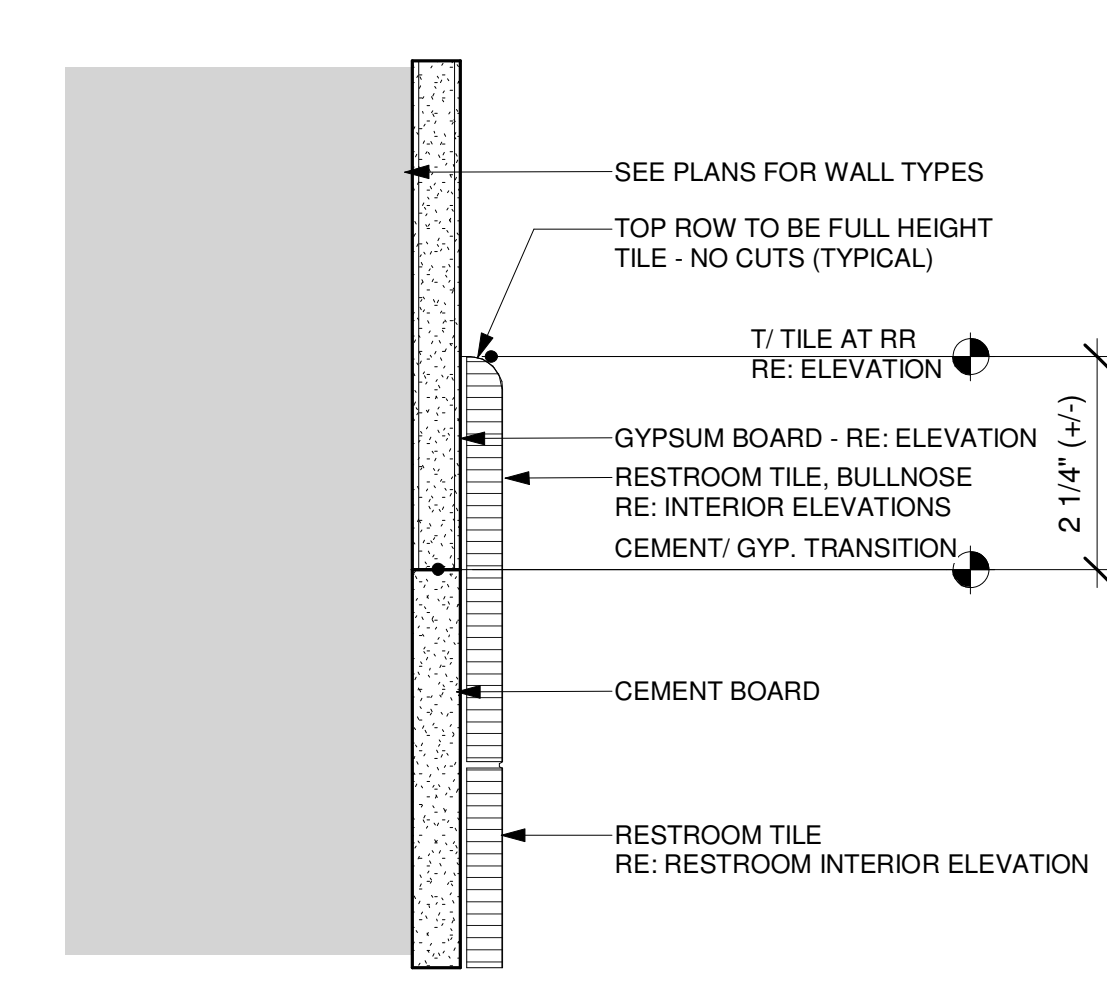
13 DETAIL: SOFFIT AND SUSPENDED CEILING AT SERVICE
3/4' = 1'-0"



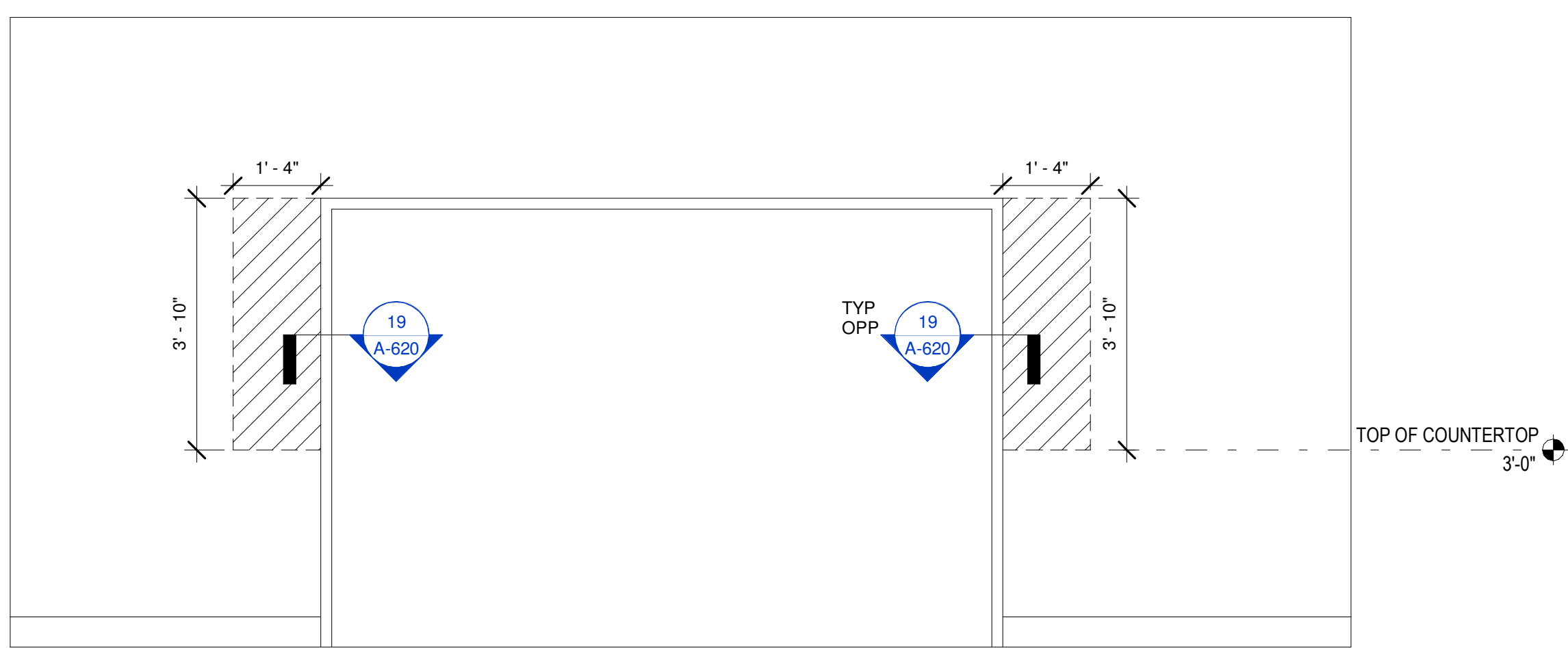
15 DETAIL: SOFFIT AND SUSPENDED CEILING ROD END
3' = 1'-0"



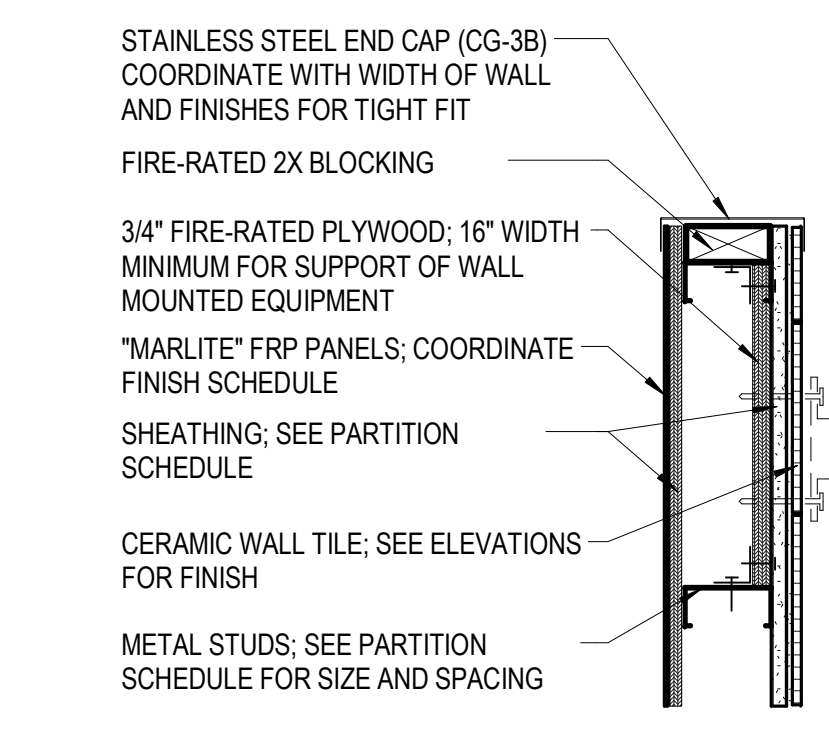
16 DETAIL: CONCRETE "T" SUSPENSION FROM STRUCTURE
1 1/2' = 1'-0"



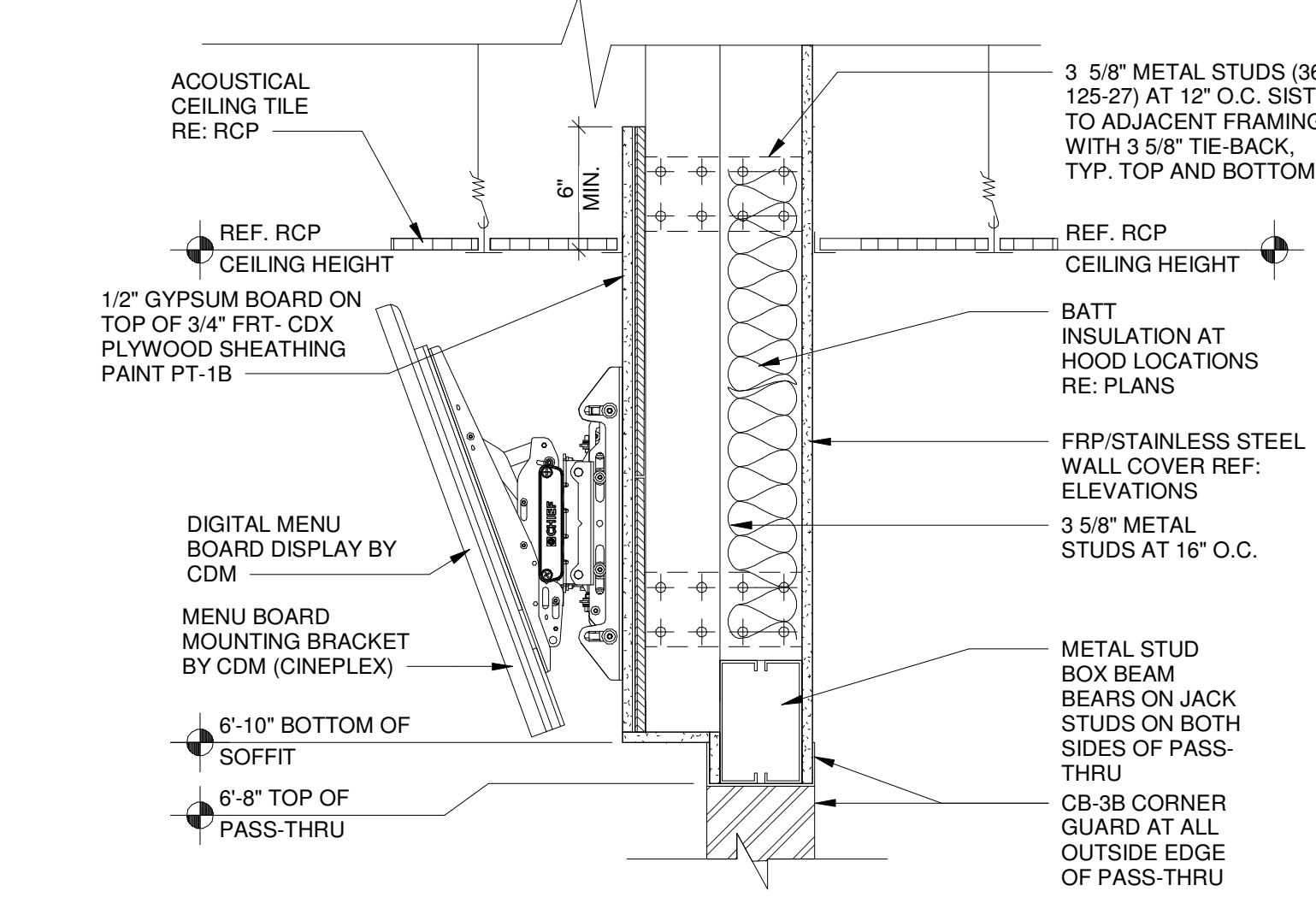
17 DETAIL: WALL TILE TRANSITION @ RESTROOM
6' = 1'-0"



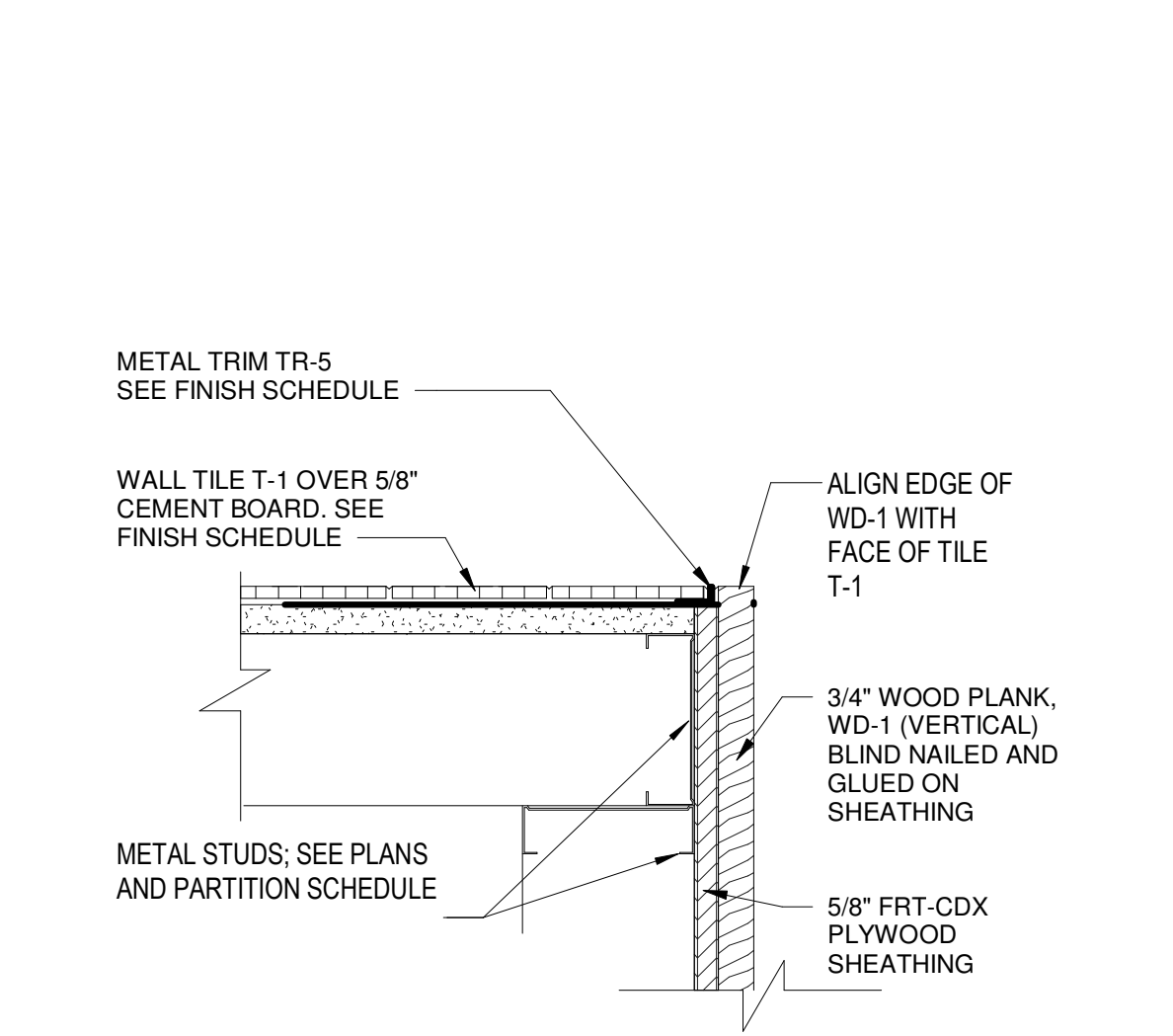
18 A-621 - BLOCKING AT PASS-THRU
1/2' = 1'-0"



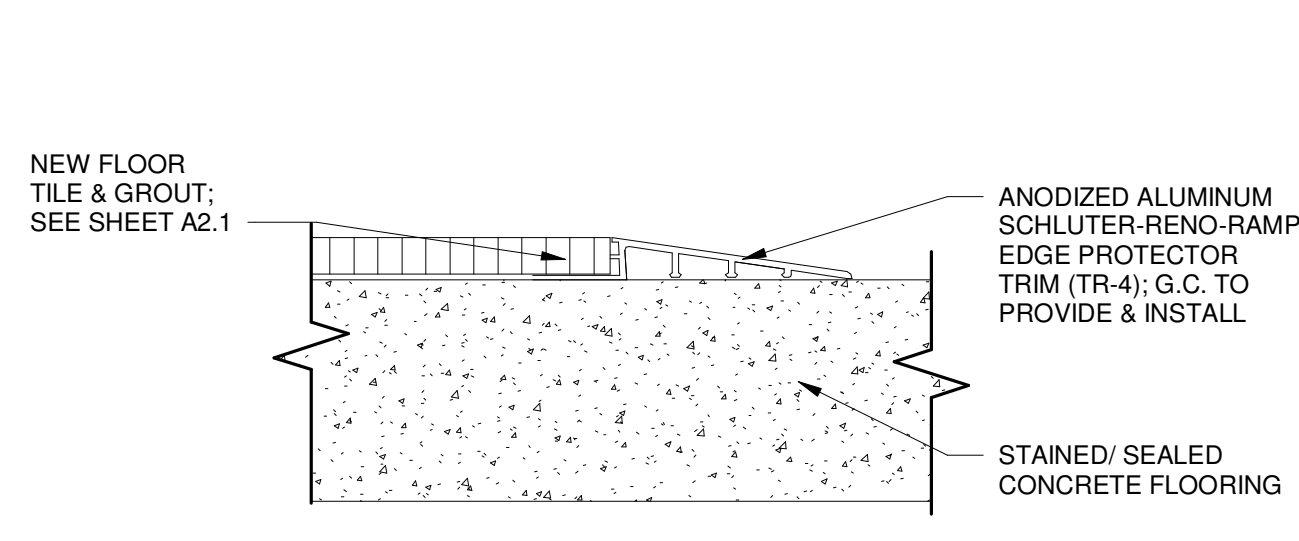
19 DETAIL: TYP. PASS-THRU OPENING
1 1/2' = 1'-0"



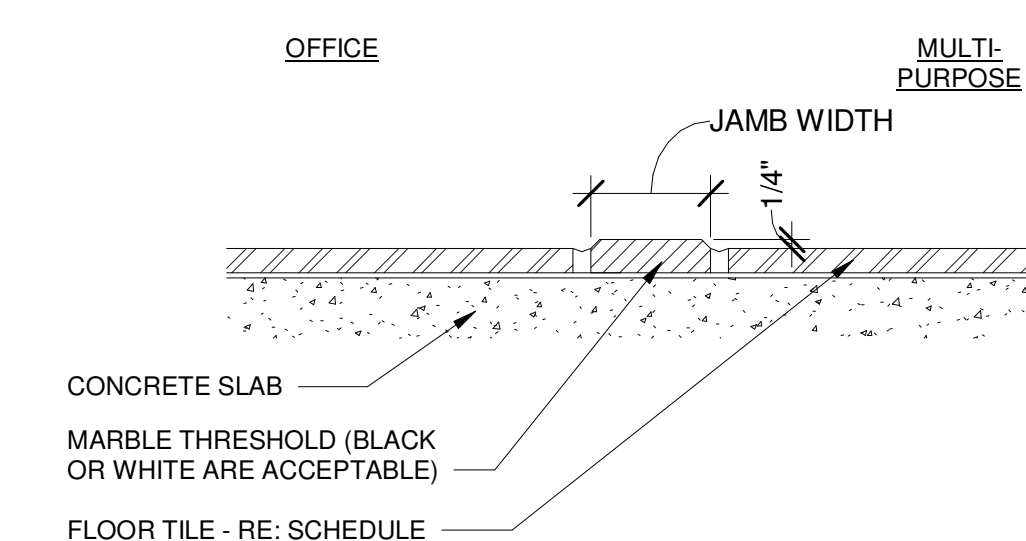
20 DETAIL: MENU BOARD SOFFIT
1 1/2' = 1'-0"



14 DETAIL: T-1 & WD-1 CORNER
3' = 1'-0"



22 TILE TRANSITION TO OTHER MATERIAL
6' = 1'-0"



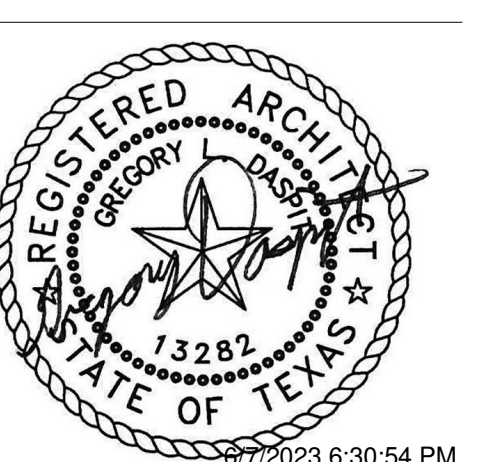
23 INTERIOR THRESHOLD @ OFFICE DOOR
3' = 1'-0"



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6/7/2023 6:30:54 PM

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UNIVERSITY OF NORTH TEXAS
STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20-11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 21136
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 6/7/2023 6:30:54 PM
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SHEET INTERIOR DETAILS

SHEET NUMBER

A-620

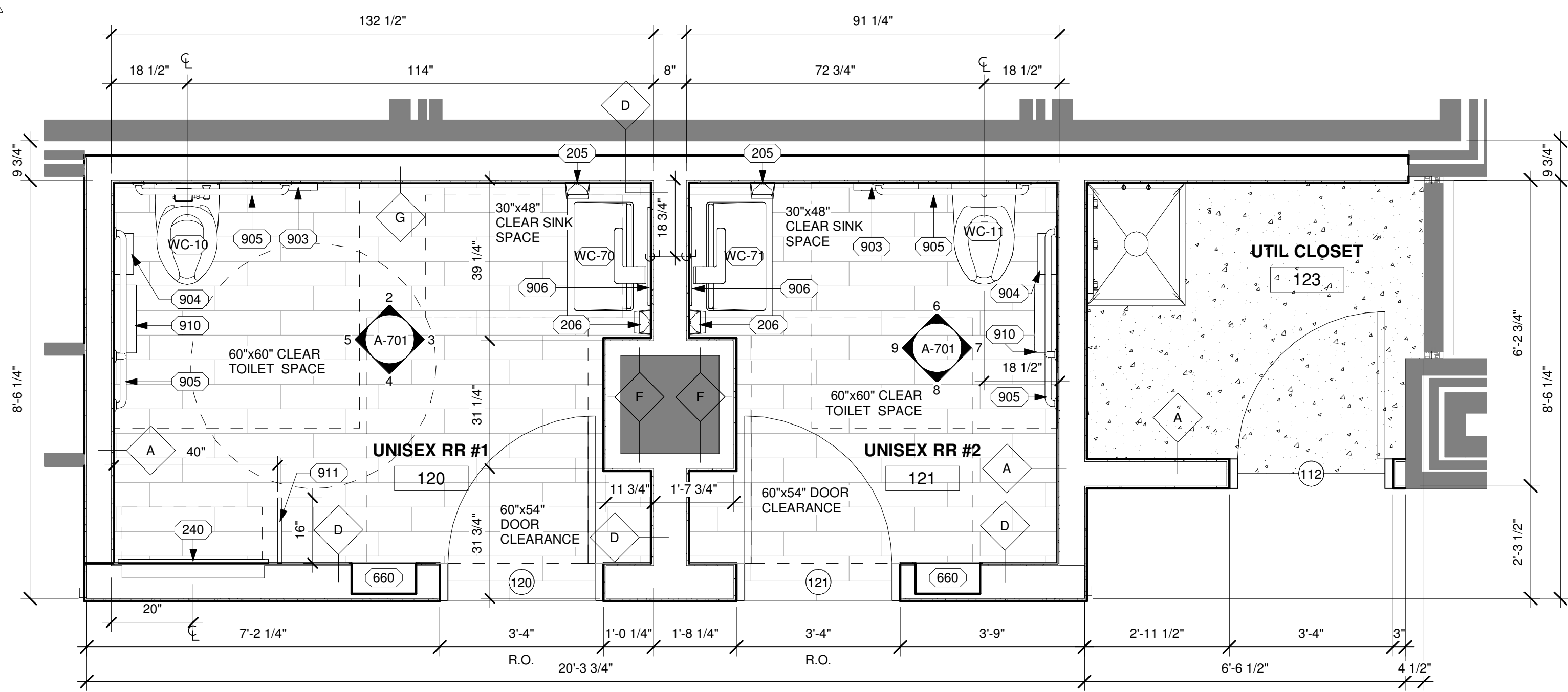
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6/7/2023 6:30:54 PM
80307-A-620-INTERIOR DETAILS

GENERAL RESTROOM NOTES

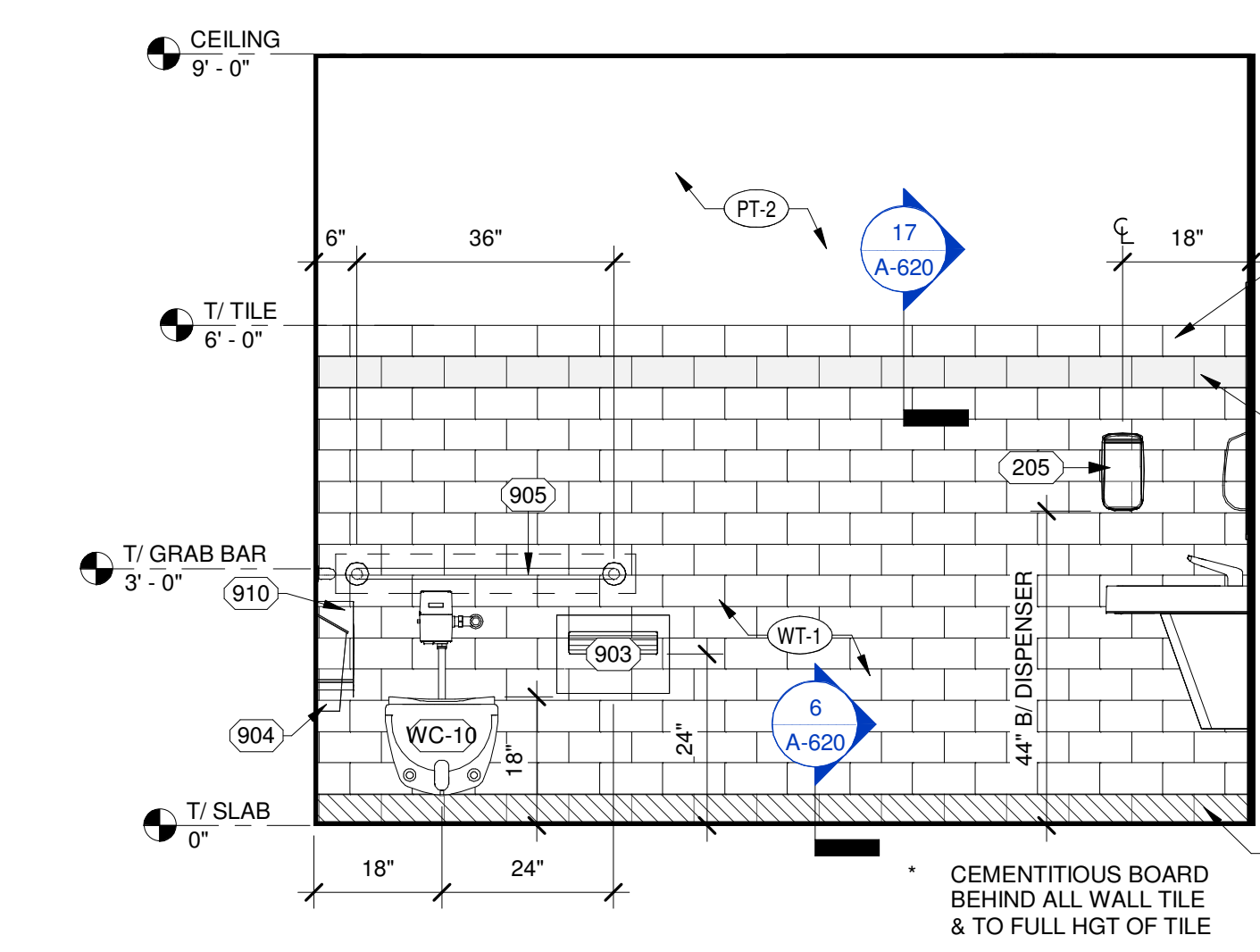
- ALL UNDER COUNTER PIPING TO BE PROTECTED FROM CONTACT. PROVIDE AND INSTALL INSULATION AT HOT WATER SUPPLY AND DRAIN PIPES. ENSURE THAT ALL OTHER SHARP OR ABRASIVE SURFACES ARE PROPERLY COVERED OR MADE SMOOTH.
- CEMENTITIOUS BOARD BEHIND ALL WALL TILE & TO FULL HEIGHT OF TILE. BABY CHANGING STATION - VERIFY PULL DOWN HANDLE TO BE 48" MAXIMUM. OPEN TABLE HEIGHT TO BE BETWEEN 28" - 34".
- COORDINATE PROPER MIRROR AND VANITY BLOCKING LOCATIONS WITH VENDOR SHOP DRAWINGS.
- REFER TO G-002 ACCESSIBILITY SHEET FOR TYP MOUNTING DIMENSIONS AND MFR DRAWINGS FOR BLOCKING LOCATIONS.
- DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
- ALL ADA STALL DOORS TO BE SELF-CLOSING WITH PULLS ON BOTH SIDES. SEE A-601 FOR FINISH ELEVATIONS.
-
-

TOILET ACCESSORIES SCHEDULE

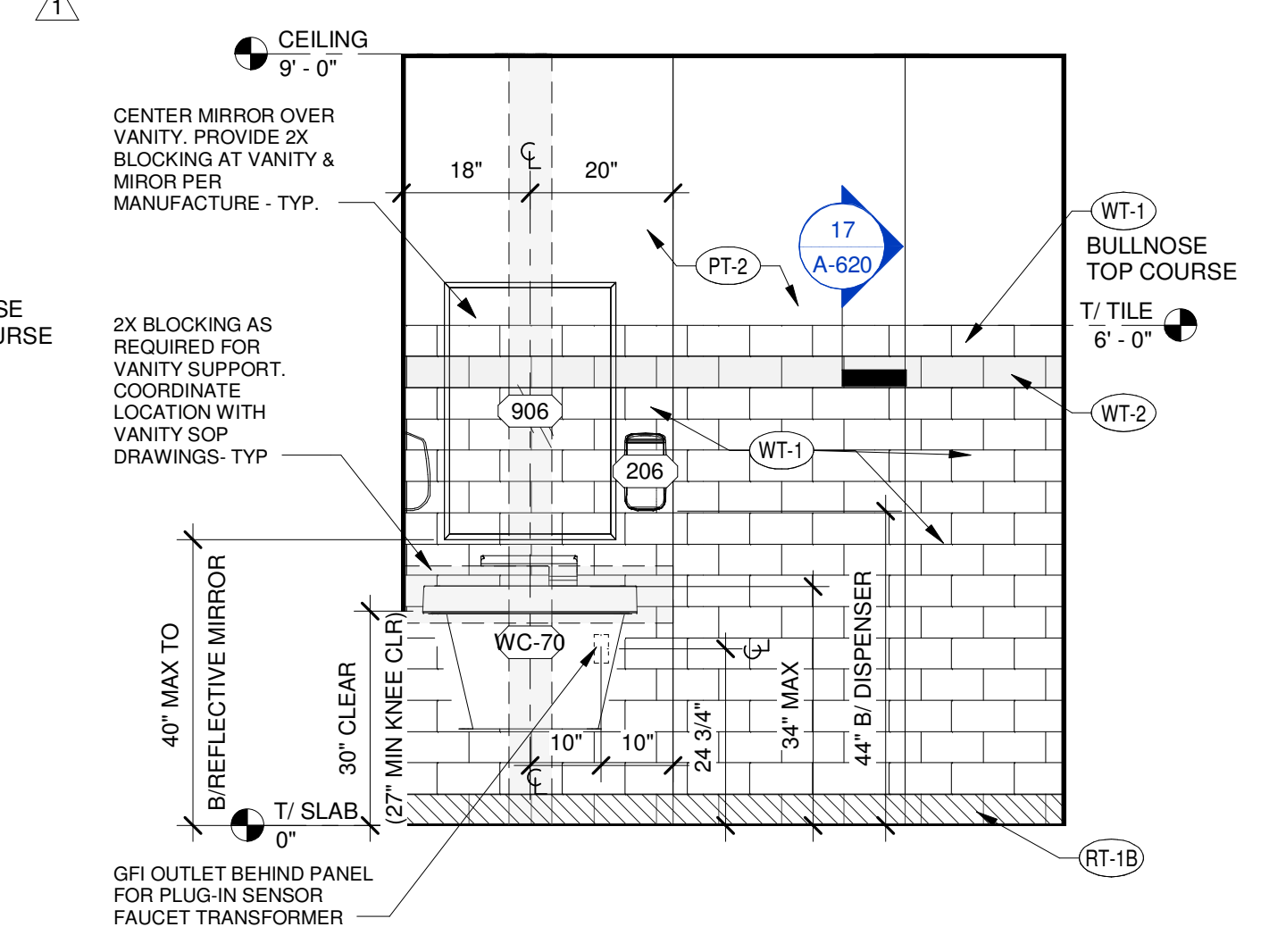
DESCRIPTION	QTY	MANUFR	FURNISHED BY	INSTALLED BY	MODEL #
205 HAND SANITIZER	2	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92021189
206 SOAP DISPENSER	2	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92021189
240 BABY CHANGING STATION (RECESSED)	1	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	962
660 Towel Dispenser, Waste Receptacle	1	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	238-000000
903 TOILET SEAT COVER DISPENSER	2	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	0477-SM
904 SANITARY RECEPTACLE	2	RUBBERMAID	GENERAL CONTRACTOR	GENERAL CONTRACTOR	8140
905 GRAB BAR (HORIZ. & VERT.)	6	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	3800 SERIES, REF. INT ELEV DIMENSIONS
906 CHANNEL FRAME MIRROR, WELDED CORNERS, 24x36	2	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	781-024360
910 TOILET PAPER DISPENSER	2	SAN JAMAR	GENERAL CONTRACTOR	GENERAL CONTRACTOR	R3090TBK
911 RESTROOM PARTITION, WALL-HUNG SCREEN, 16"x48"	1	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	STAINLESS STEEL



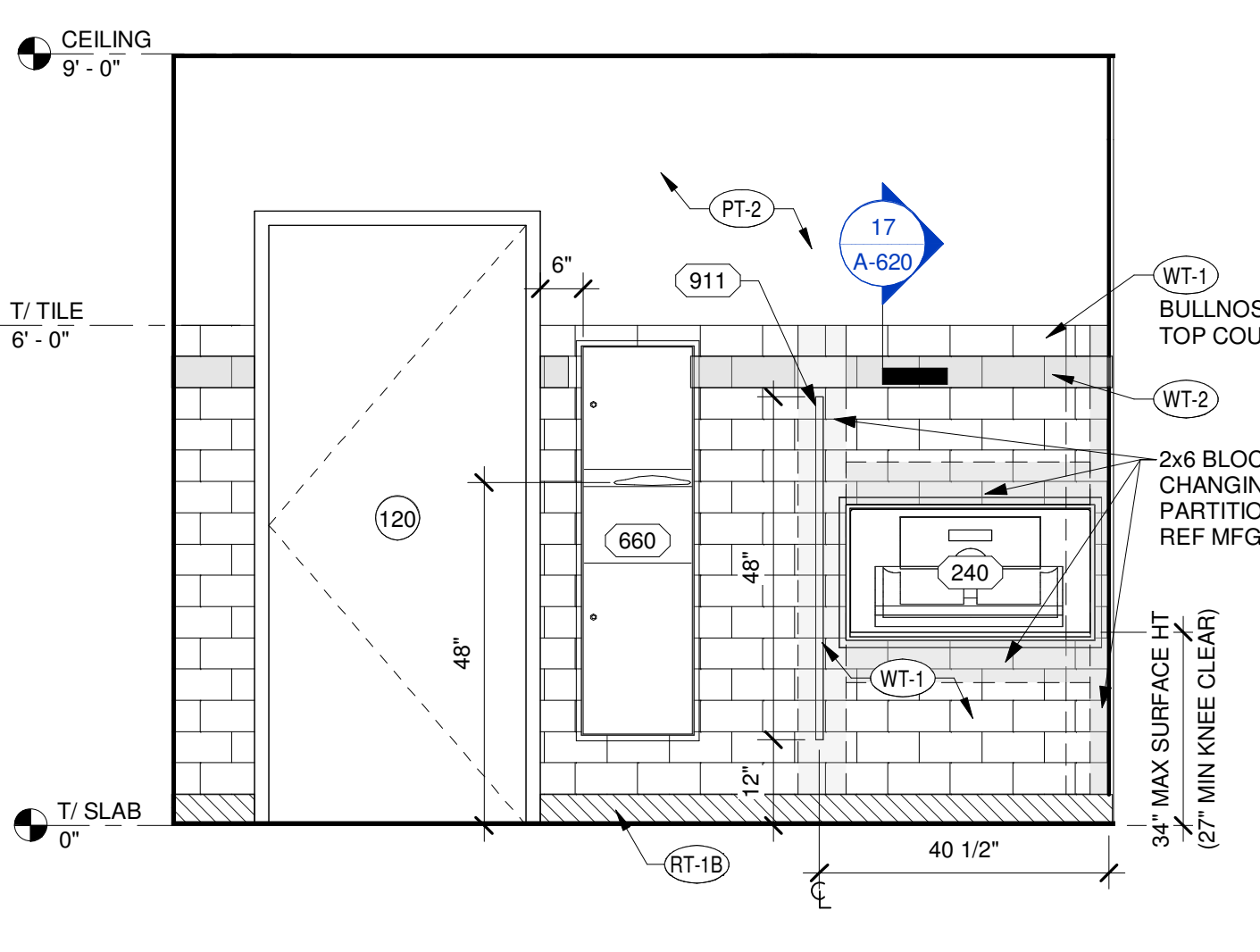
1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



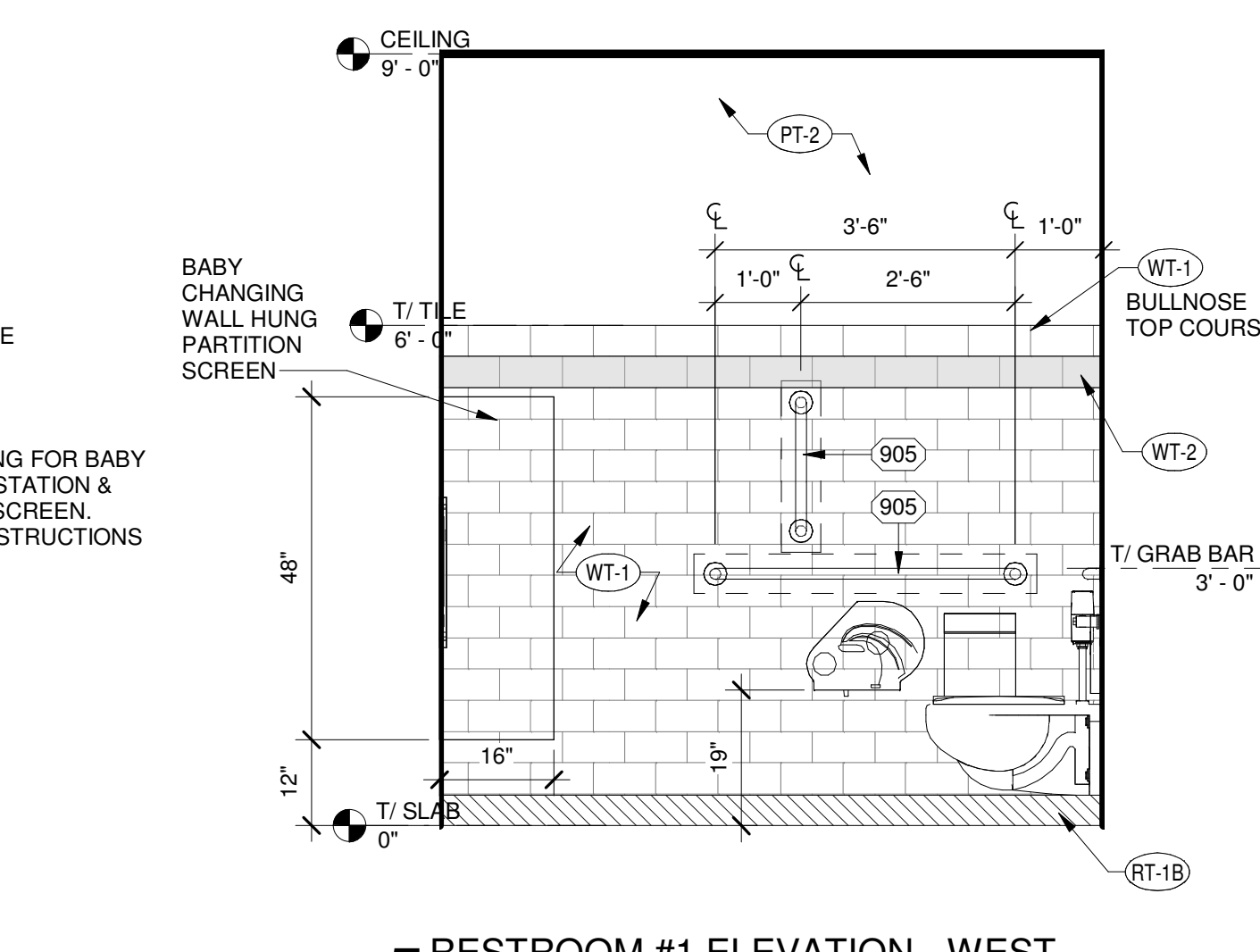
2 RESTROOM #1 ELEVATION - NORTH
1/2" = 1'-0"



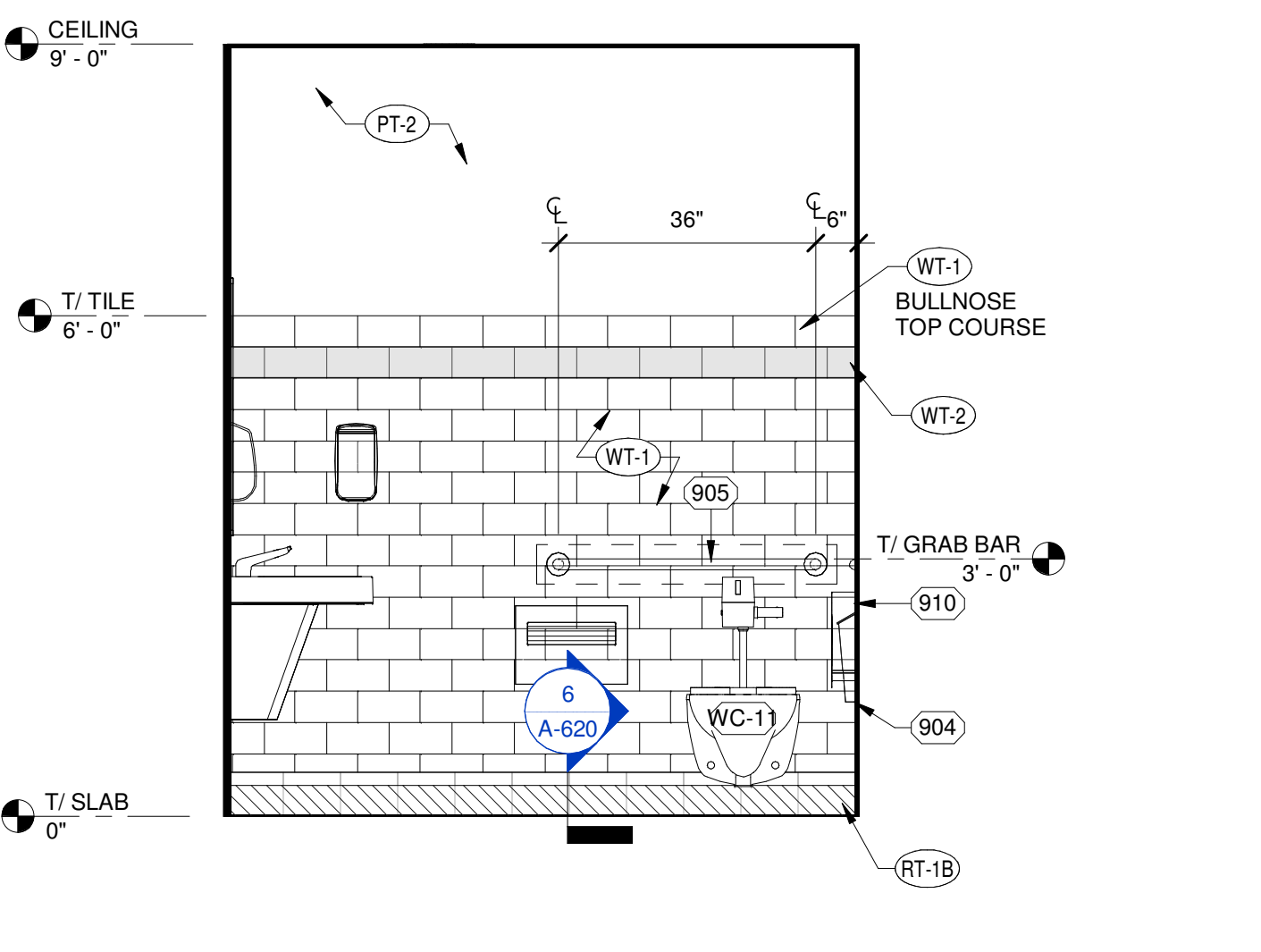
3 RESTROOM #1 ELEVATION - EAST
1/2" = 1'-0"



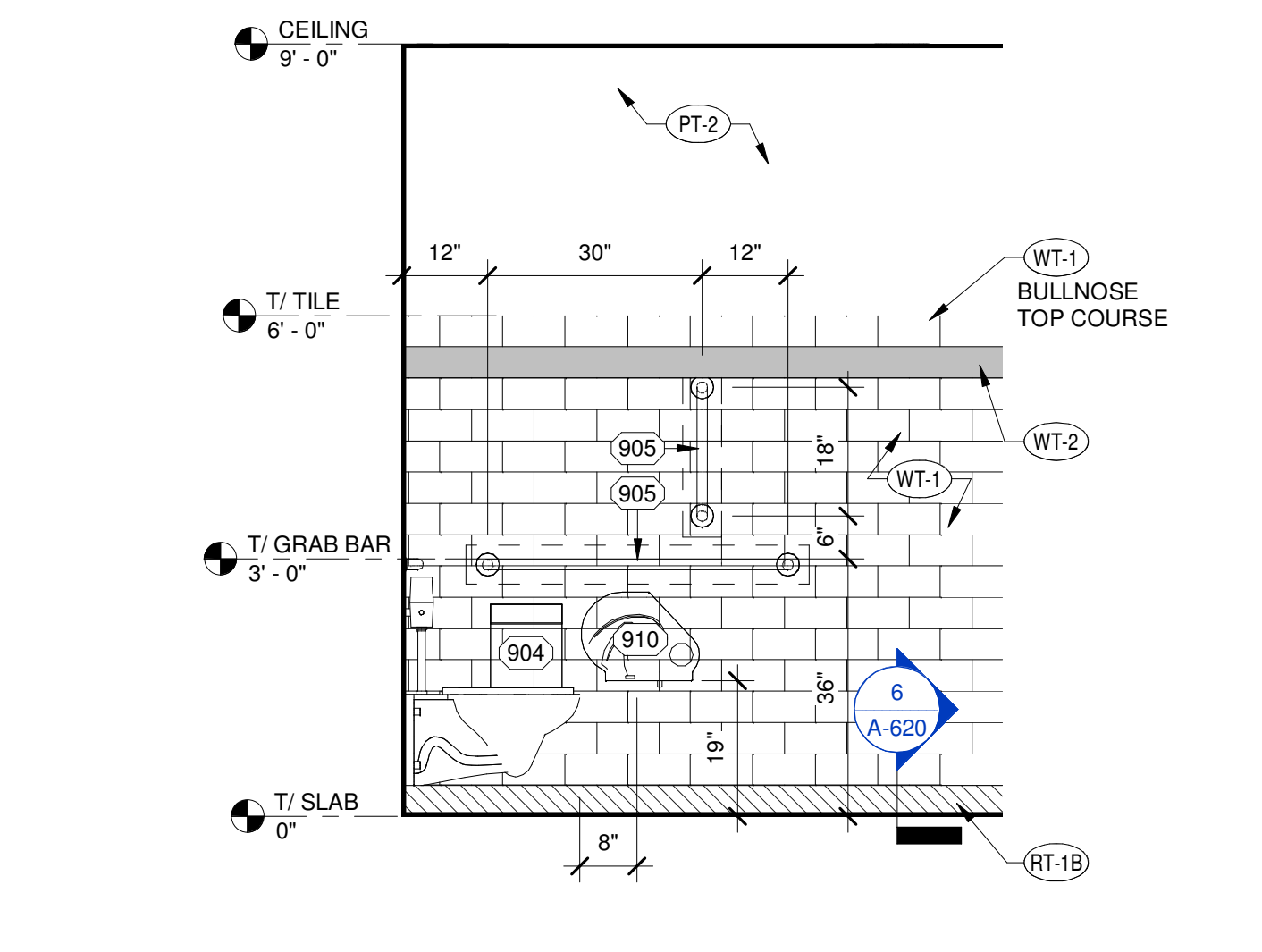
4 RESTROOM #1 ELEVATION - SOUTH
1/2" = 1'-0"



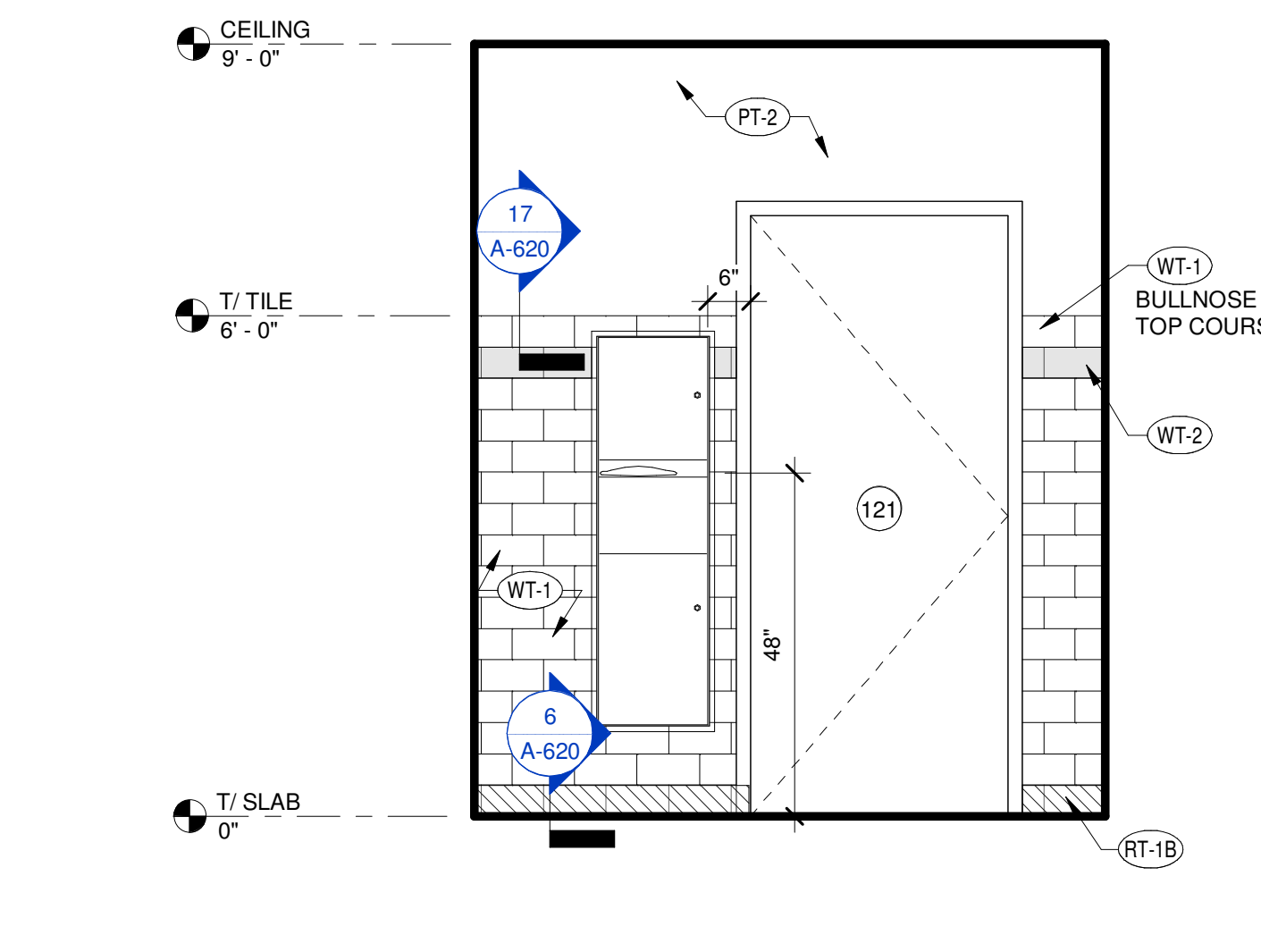
5 RESTROOM #1 ELEVATION - WEST
1/2" = 1'-0"



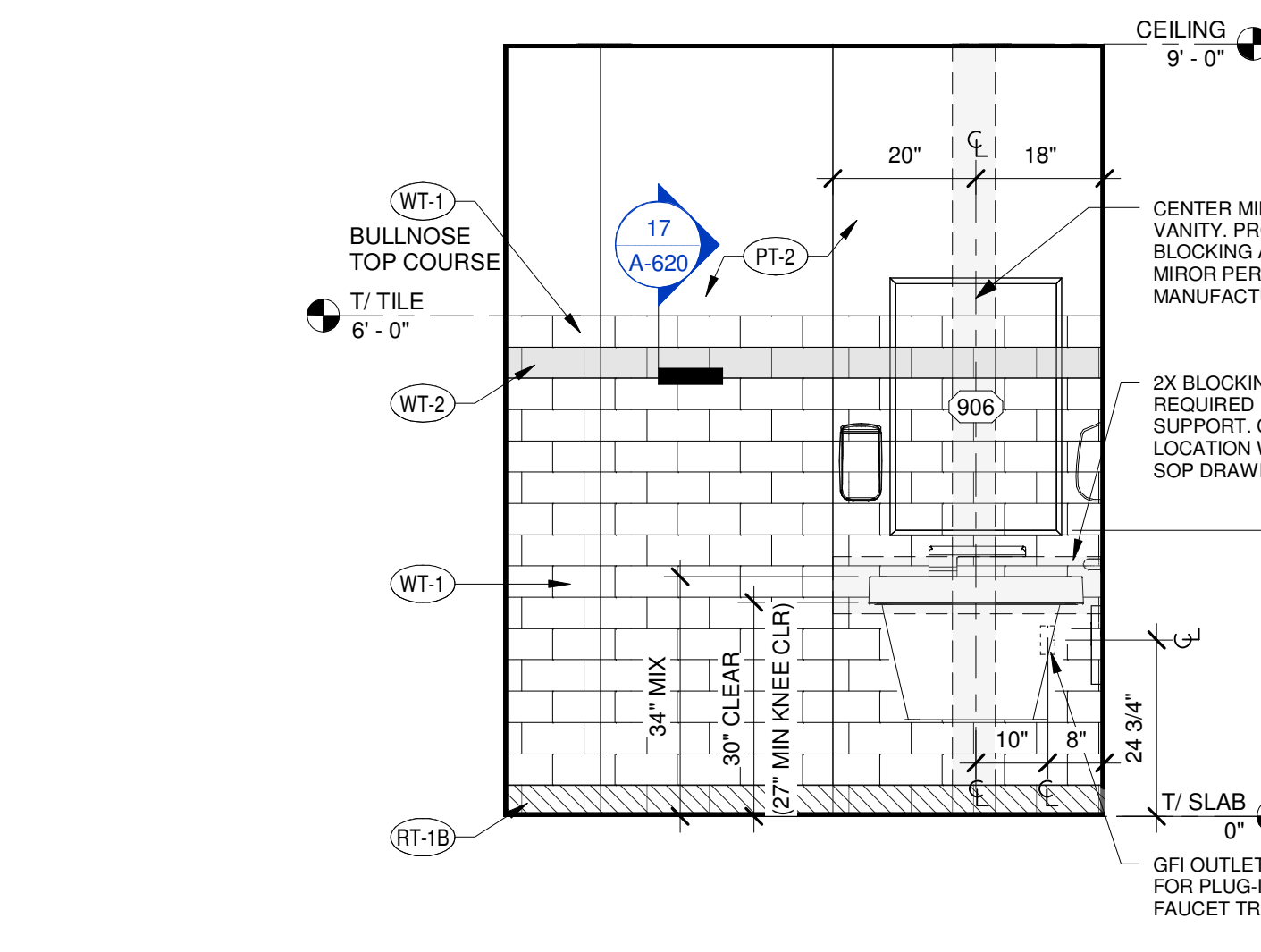
6 RESTROOM #2 ELEVATION - NORTH
1/2" = 1'-0"



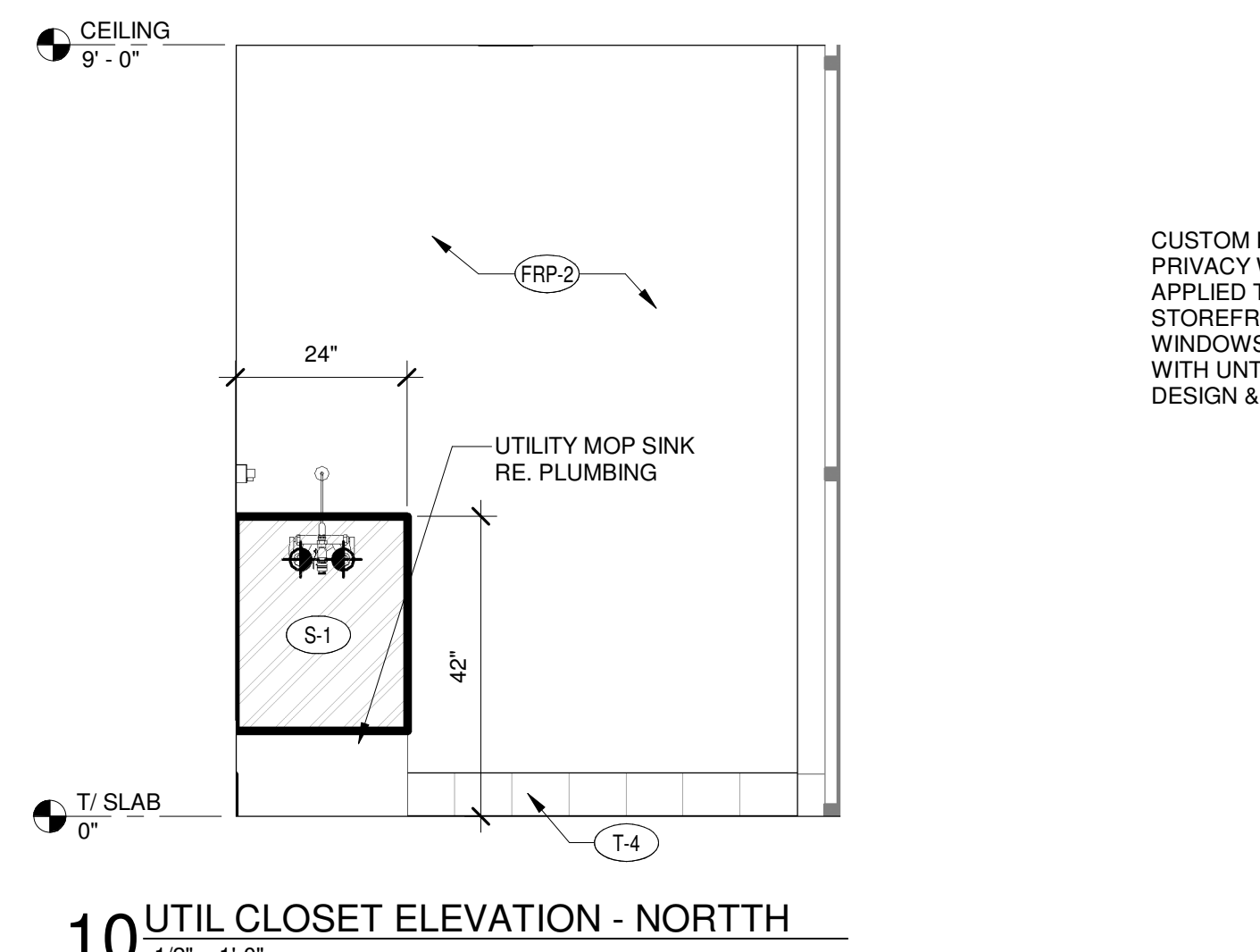
7 RESTROOM #2 ELEVATION - EAST
1/2" = 1'-0"



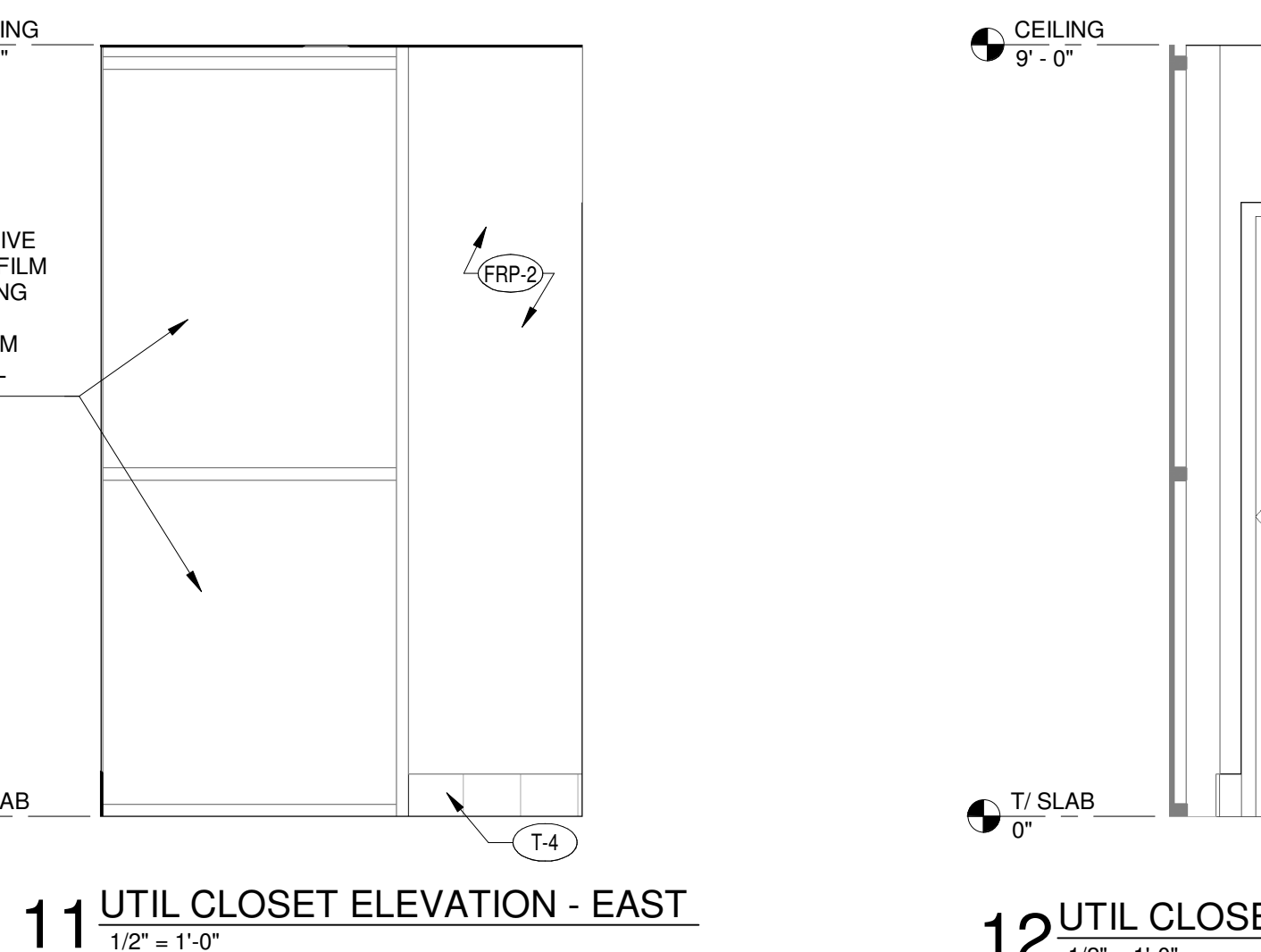
8 RESTROOM #2 ELEVATION - SOUTH
1/2" = 1'-0"



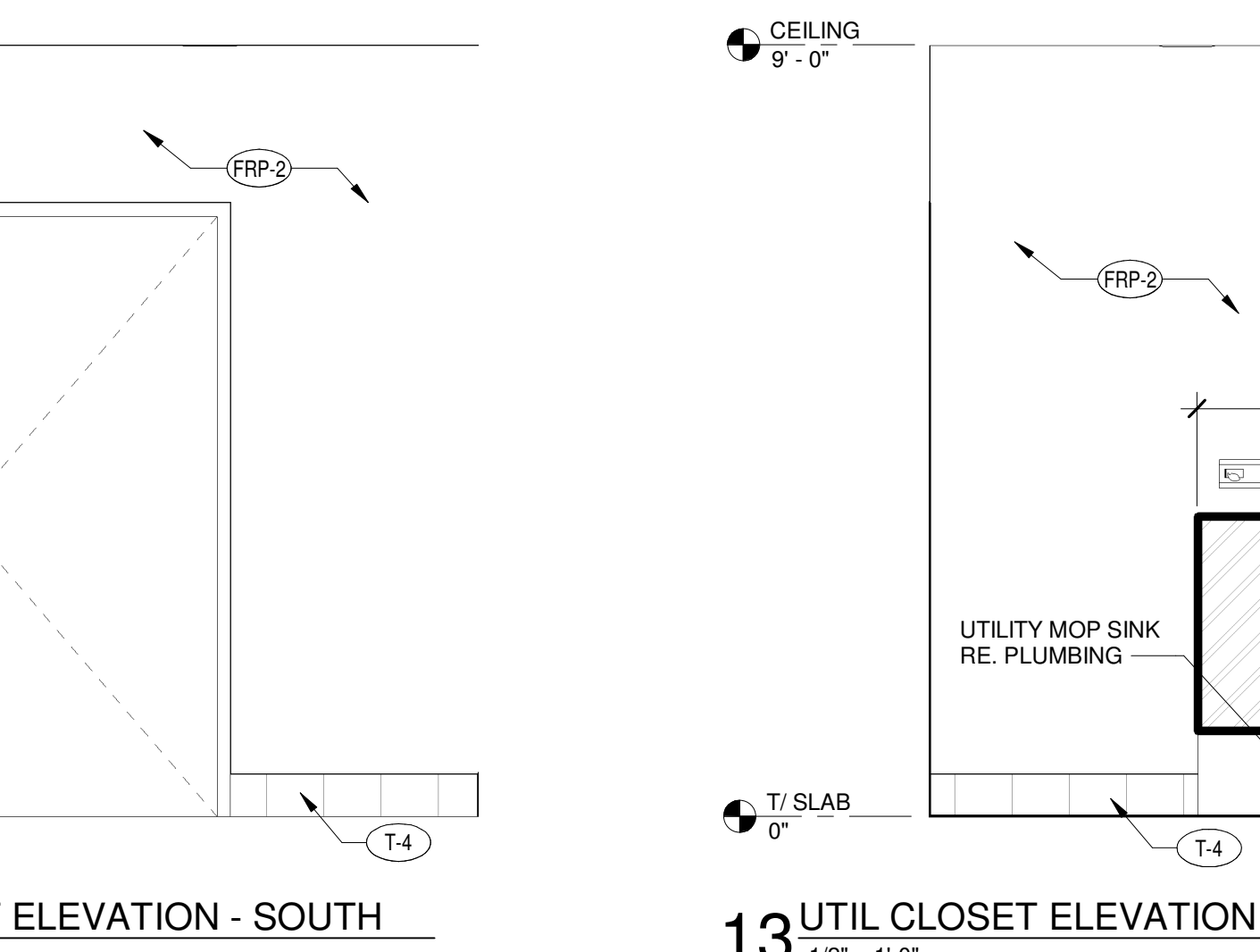
9 RESTROOM #2 ELEVATION - WEST
1/2" = 1'-0"



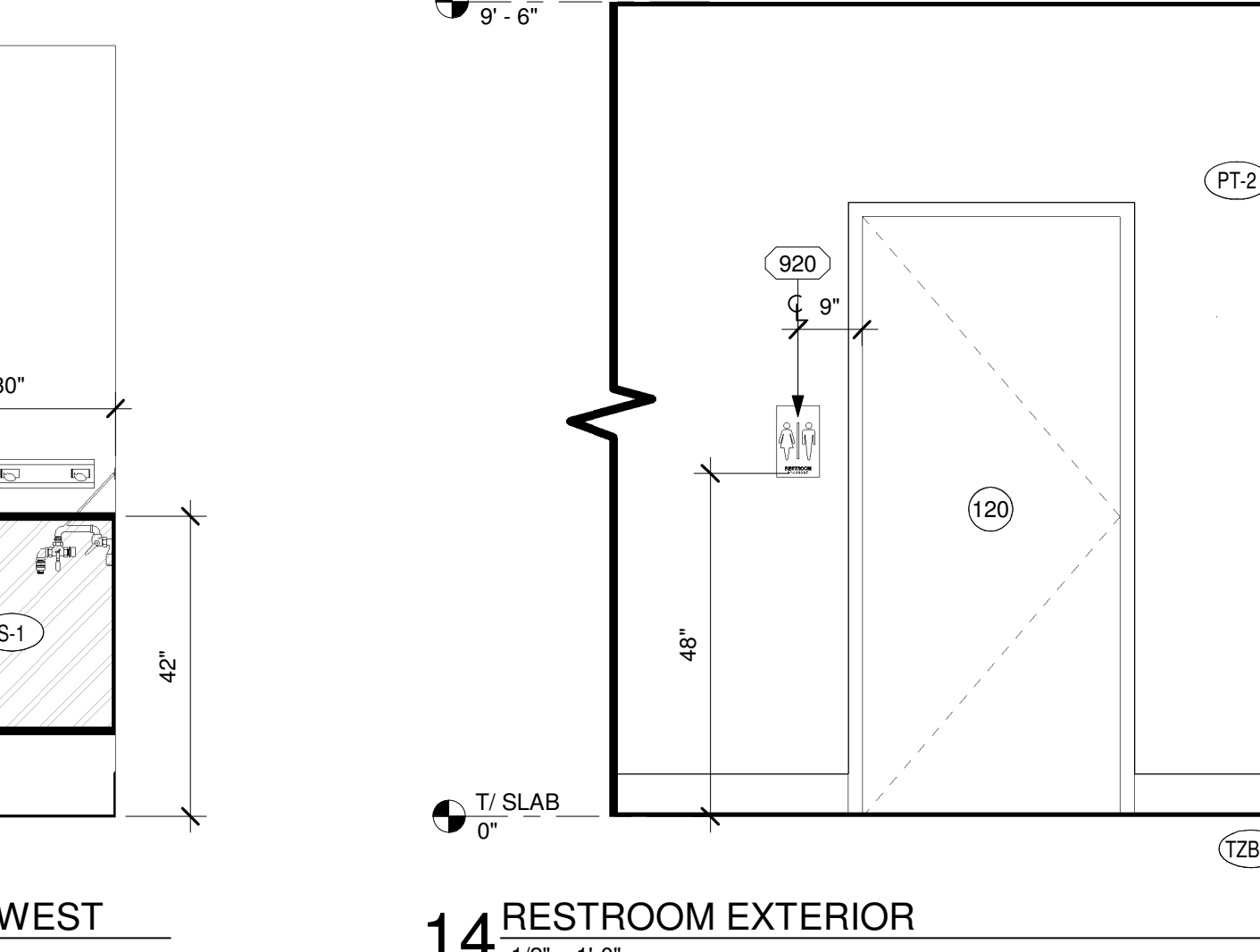
10 UTIL CLOSET ELEVATION - NORTH
1/2" = 1'-0"



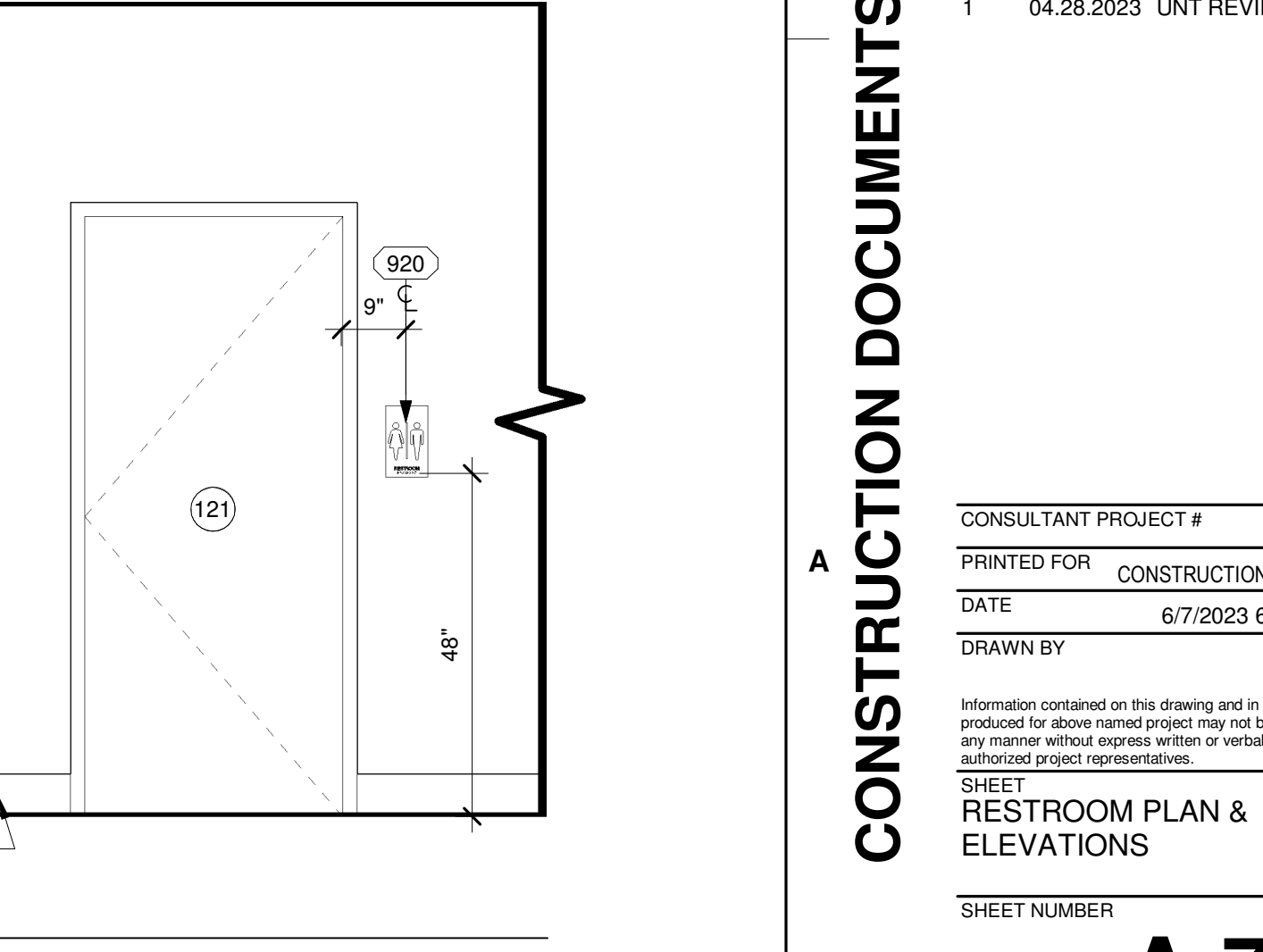
11 UTIL CLOSET ELEVATION - EAST
1/2" = 1'-0"



12 UTIL CLOSET ELEVATION - SOUTH
1/2" = 1'-0"



13 UTIL CLOSET ELEVATION - WEST
1/2" = 1'-0"



14 RESTROOM EXTERIOR
1/2" = 1'-0"



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STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 21136
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RESTROOM PLAN & ELEVATIONS

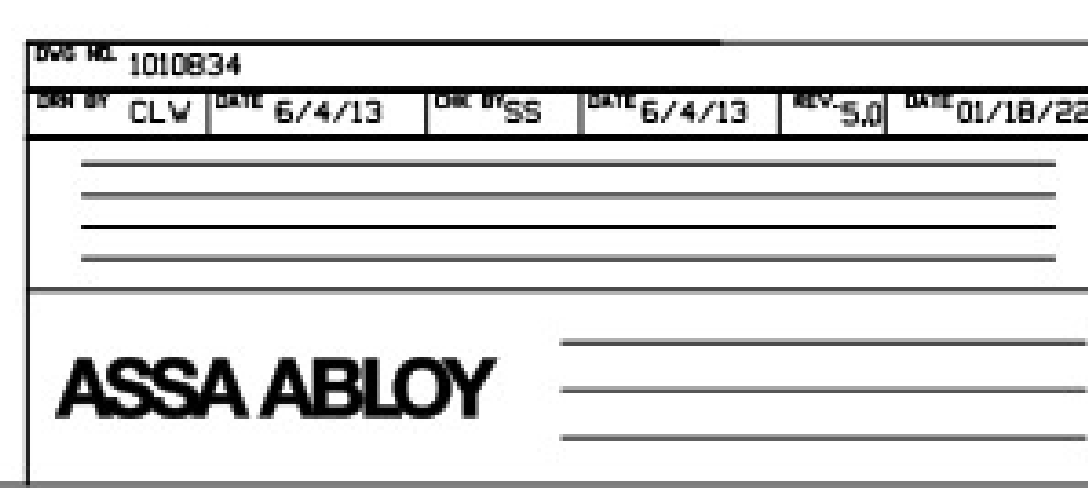
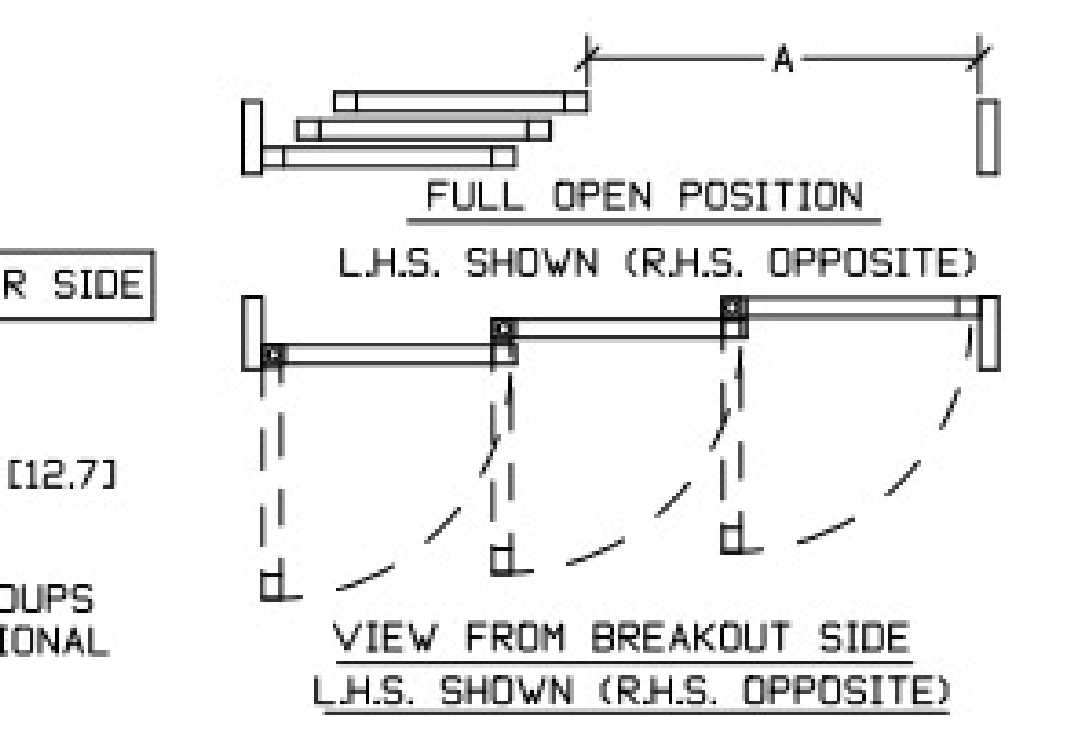
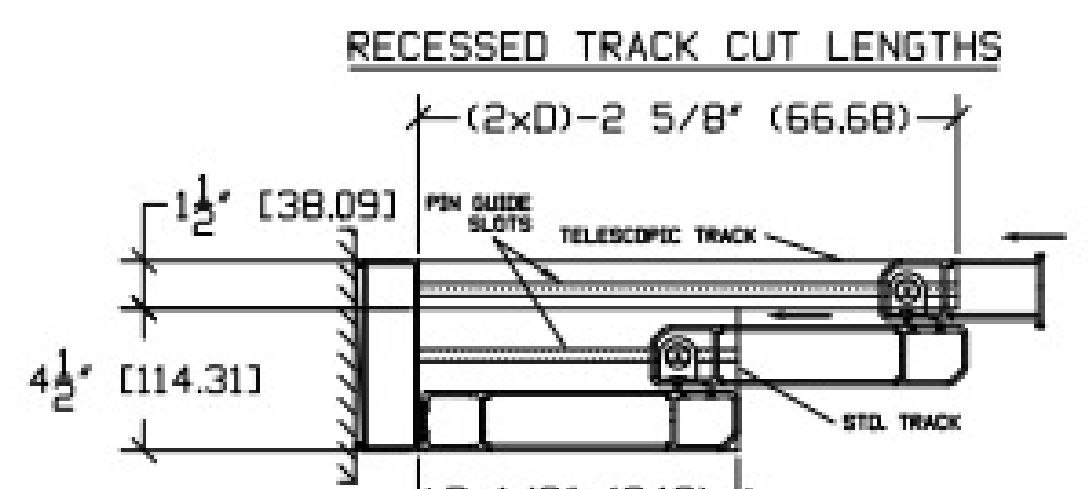
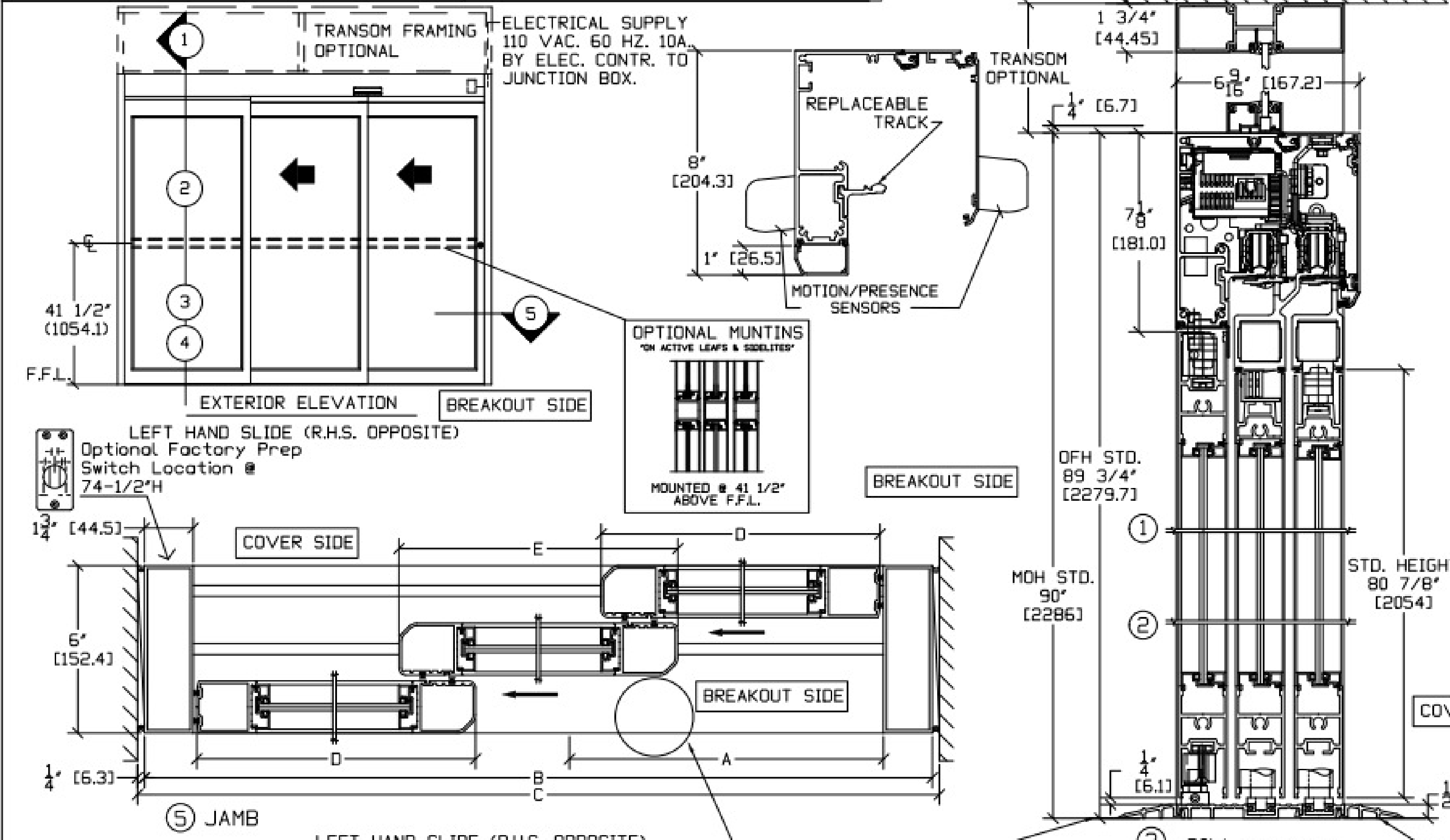
SHEET NUMBER
A-701

BIM:360/UTX_80307_University of North Texas_2021.12_SAT.80307_University of North Texas_RELOCATION_ARC.rvt
6/7/2023 6:31:02 PM
80307-A-701-RESTROOM PLAN & ELEVATIONS

ASSA ABLOY
 ASSA ABLOY Entrance Systems
 1500 Airport Road
 Monroe, NC 28110
 Phone: 1-866-237-2687
 specdesk@assabloy.com

ASSA ABLOY SL500
 CONCEALED, FULL BREAKOUT, SINGLE SLIDE
 TELESCOPIC SLIDING DOOR SYSTEM

NOTE: THE STANDARD PACKAGE CONSISTS OF:
 THE AUTOMATIC OPERATOR & WEATHERSTRIP, EMERGENCY
 BREAKAWAY, 2-POINT LOCK, OPTIONAL POSITION SWITCHES (DIGITAL
 (3 OR 5) OR KEY (5)), (OFF-EXIT ONLY-AUTO-REDUCED
 OPENING-HOLD OPEN OR OFF, AUTO, HOLD OPEN), MOTION/PRESENCE
 SENSORS.
 STANDARD FINISH: CLEAR- AA-M12C22A41, CLASS 1, .018 MM.
 DARK BRONZE- AA-M12C22A44, CLASS 1, .018 MM.
 SPECIAL FINISHES ARE AVAILABLE.
 THIS PACKAGE WILL ACCEPT UP TO 1"(25.4) INSULATED GLASS,
 GLASS OVER 1/4" WILL REQUIRE THE HEADER TO BE SUPPORTED
 FROM ABOVE.
 NOTE: DRAWING IS DIMENSIONED IN BOTH ENGLISH AND METRIC.
 REF. AS FOLLOWS: 1" (25.4) ALL METRIC SIZES ARE MILLIMETERS.
 FOR MAXIMUM CURRENT DRAW PER OPERATOR, SEE PRODUCT
 SPECIFICATION, INSTALLATION INSTRUCTIONS, OR THE UL
 LABEL ON THE EQUIPMENT.
 REFER TO RELEVANT (LOCAL, STATE, NATIONAL OR AHD) BUILDING
 CODE FOR MIN DOOR HEIGHT & MIN/MAX WIDTH ALLOWABLE
 FOR EGRESS REQUIREMENT IN CONJUNCTION WITH TABLE BELOW.



SL500 OHC	DOOR OPENING A	OVERALL FRAME WIDTH B	MASONRY OPENING WIDTH C	ACTIVE & SIDELITE LEAF WIDTH D & E
6'	36 7/16" (925.5)	78" (1980.8)	72 1/2" (1841.5)	24 9/16" (623.9)
7'	44 7/16" (1129.7)	84" (2133.6)	84 1/2" (2146.3)	28 9/16" (725.3)
8'	52 7/16" (1331.5)	90" (2286.0)	86 1/2" (2201.5)	32 9/16" (827.1)
9'	60 7/16" (1533.3)	96" (2438.4)	90 1/2" (2301.5)	36 9/16" (928.7)
10'	68 7/16" (1735.1)	102" (2590.8)	92 1/2" (2351.5)	40 9/16" (1030.3)
11'	76 7/16" (1936.9)	108" (2743.2)	94 1/2" (2411.5)	44 9/16" (1131.9)
12'	84 7/16" (2138.7)	114" (2895.6)	96 1/2" (2471.5)	48 9/16" (1233.5)
KEY	(26/3)-11 9/16" (667.3)	(C-12.7)	(B+1/2") (811.2)	(B/3)+9/16" (8/3)+14.3

FINISHED FLOOR MUST NOT BE AN INCREASE IN ELEVATION THROUGH BREAKOUT DOOR(S)

FINISHED FLOOR MUST NOT BE CONCAVE ACROSS THE CLEAR DOOR OPENING AND NOT OUT OF LEVEL MORE THAN 1/4" (TYP)

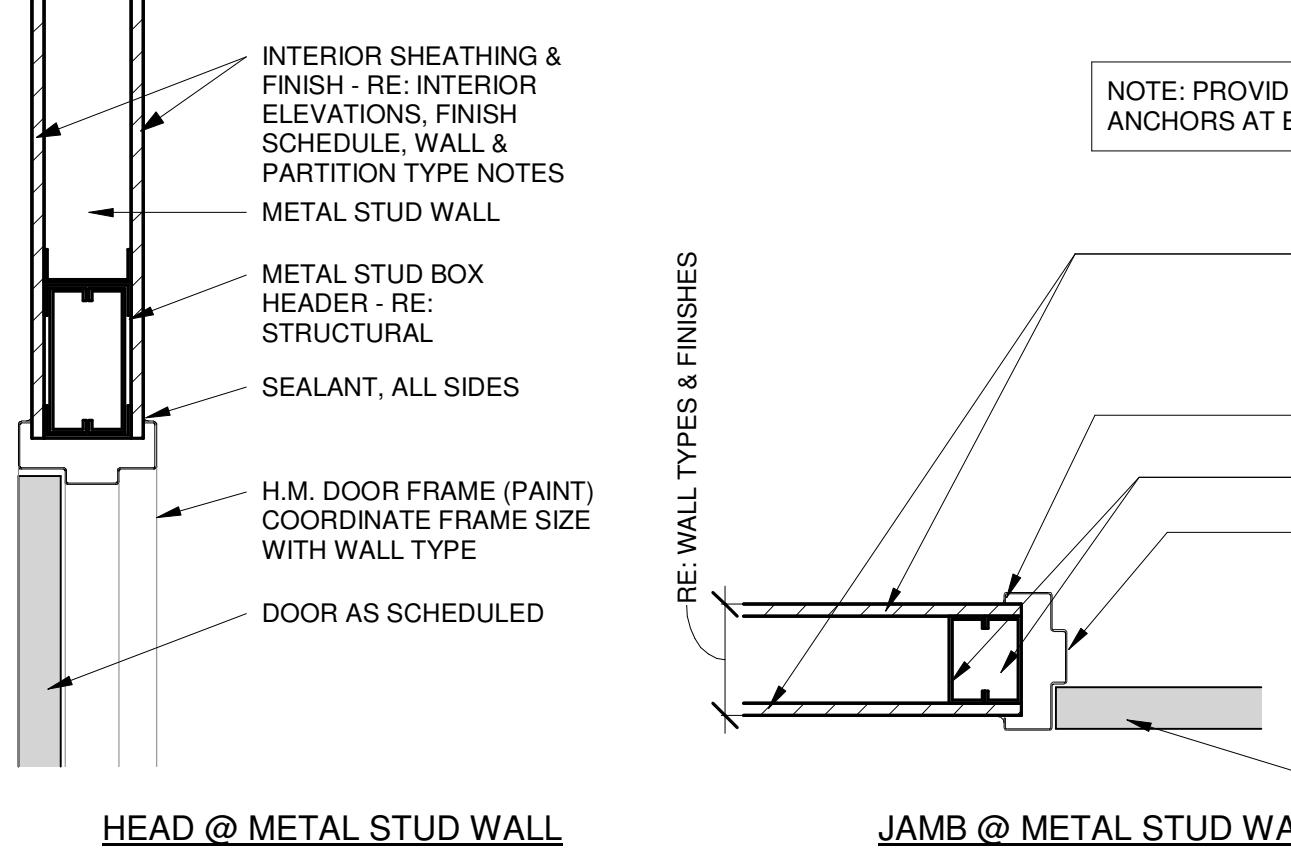
STD. GLASS SIZE KEY*	WIDTH - "D" & "E"	HEIGHT
	(B/3)-4 1/4" (8/3)-(107.95)	OPH-15 7/8" (OPH-(403.2))
	(B/3)-4 3/8" (8/3)-(111.13)	

* NARROW STILE RAILS w/ 1/4" GUTTER, NO MUNTINS

LEFT HAND SLIDE (R.H.S. OPPOSITE)

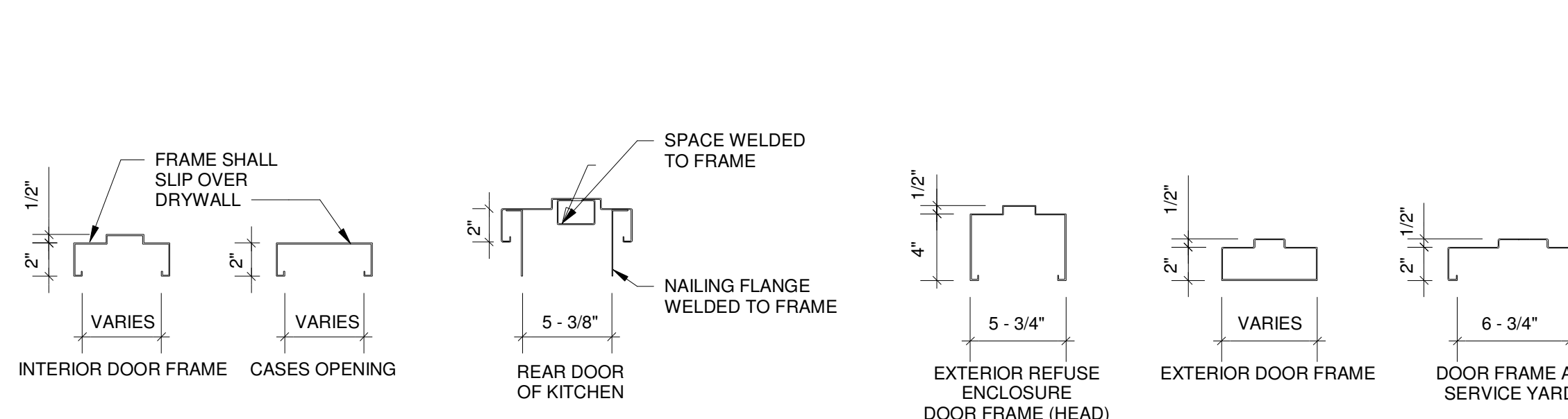
Optional Factory Prep Switch Location @ 74-1/2"H

OPTIONAL MUNTINS OR ACTIVE LEAF & SIDELITE MOUNTED @ 41 1/2" ABOVE F.F.L.



NOTE: REFER TO WALL TYPES FOR WALL THICKNESS, INTERIOR ELEVATIONS AND FINISH PLAN FOR WALL FINISHES, AND DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

A-621 INTERIOR HOLLOW METAL FRAME HEADS & JAMBS



HOLLOW METAL FRAME PROFILES

ASSA ABLOY

A-801 - DOOR SCHEDULE

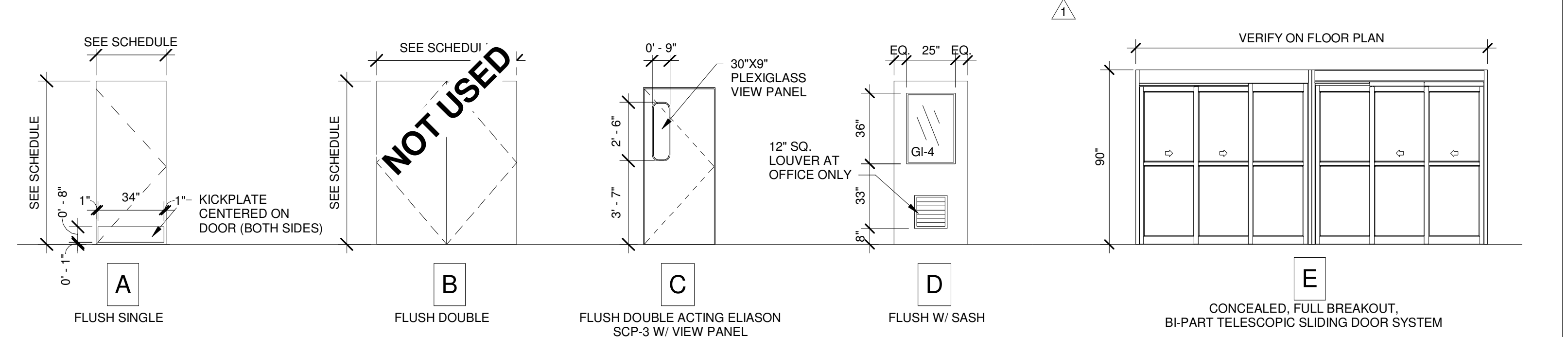
DOOR NO.	Item	WIDTH	HEIGHT	DOOR	MATERIAL	FINISH	HDW	FRAME	FINISH	REMARKS
101	SERVICE	3'-0"	7'-0"	A	HOLLOW METAL	PT-1B	#1	HOLLOW METAL	PT-1B	KICKPLATE CENTERED ON DOOR (BOTH SIDES)
102	KITCHEN #1	3'-0"	7'-0"	C	STAINLESS STEEL W/ GLASS	PRE-FINISHED BRUSHED STAINLESS STEEL	#3	STAINLESS STEEL	PRE-FINISHED BRUSHED STAINLESS STEEL	MANUFACTURED BY ELIASON. FRAME CONSISTS OF STAINLESS STEEL CHANNEL WRAPPED AROUND JAMB.
103	KITCHEN #2	3'-0"	7'-0"	A	HOLLOW METAL	PT-1B	#1	HOLLOW METAL	PT-1B	KICKPLATE CENTERED ON DOOR (BOTH SIDES)
104	DRY STORAGE	4'-0"	7'-0"	C	STAINLESS STEEL W/ GLASS	PRE-FINISHED BRUSHED STAINLESS STEEL	#3	STAINLESS STEEL	PRE-FINISHED BRUSHED STAINLESS STEEL	
106	OFFICE	3'-0"	7'-0"	D	HOLLOW METAL	PT-4	#2	HOLLOW METAL	PT-4	GL-4; TEMPERED GLASS. (CONFIRM WITH UT IF EXISTING OFFICE DOOR IS TO BE RE-USED BEFORE PURCHASING / INSTALLATION)
112	UTIL CLOSET	3'-0"	7'-0"	A	SOLID CORE WOOD	PL-1	#6	HOLLOW METAL	PT-1B	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE
120	RESTROOM #1	3'-0"	7'-0"	A	WOOD GRAIN STEEL	PL-1	#7	WOOD GRAIN STEEL	PT-1B	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE
121	RESTROOM #2	3'-0"	7'-0"	A	SOLID CORE WOOD	PL-1	#5	HOLLOW METAL	PT-1B	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE
140	COORIDOR #1	7'-6 1/2"	7'-5 3/4"	E	ALUMINUM	PRE-FINISHED ALLOY		ALUMINUM	6"	CONCEAL FULL BREAKOUT, SINGLE SLIDE TELESCOPIC SLIDING DOOR SYSTEM (ASSA ABLOY SL500)
141	COORIDOR #2	7'-6 1/2"	7'-5 3/4"	E	ALUMINUM	PRE-FINISHED ALLOY		ALUMINUM	6"	CONCEAL FULL BREAKOUT, SINGLE SLIDE TELESCOPIC SLIDING DOOR SYSTEM (ASSA ABLOY SL500)

- ABBREVIATIONS: B.M. = BY MANUFACTURER; EX. = EXISTING; HDW. = HARDWARE (SET); ME. = MATCH EXISTING; M.EXT. = MATCH EXTERIOR COLOR (PAINT OR PRE-FINISHED); PR. = PAIR; PR-FIN. = PRE-FINISHED; S.C. = SOLID CORE METAL FRAMES AS SCHEDULED; MFG. BY THE STEELCRAFT MFG. CO., CINCINNATI, OH. DESIGNATED AS DW-18 FABRICATED FROM COLD ROLLED STEEL. PROVIDE SECURITY ANCHORS AT STRIKE AND HINGE SIDES OF FRAMES. NOTE 1 - CONFORM TO APPLICABLE CODE FOR FIRE RATING, MIN. B LABEL STAINLESS STEEL FRAMES (TYPICAL @ DOUBLE ACTING DOOR) SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL AND POLISHED TO A #4 MATTE FINISH (SM. 9.1/42.1)
- PAINT KITCHEN FACE AND EDGES OF DOOR AS INDICATED. PAINT CORRIDOR/EXTERIOR FACE OF DOOR AND H.M. FRAME PER AIRPORT. S.C. TO PROVIDE SUITE MARKER PER REQUIREMENTS OF AIRPORT AND LOCAL JURISDICTION. COORDINATE TYPE, LETTERING STYLE AND COLOR, AND LOCATION OF SUITE MARKER WITH LICENSED OPERATIONS AND LOCAL JURISDICTION HAVING AUTHORITY.
- SANTOGRASP CONTACT: MATTHEW FULKERSON @ 404-698-5601
- ALL FACE ON NEW DOORS SHALL BE PRE-FINISHED BY MANUFACTURER. COLOR TO MATCH PAINT COLOR SPECIFIED IN DOOR SCHEDULE.
- PAINT EXTERIOR/NON TENANT SIDE FACE OF DOORS AND FRAMES TO MATCH ADJACENT SURFACE.
- COORDINATE HARDWARE WITH LOCATION SPECIFICATIONS; HANDLE STYLE TO BE SPECIFIED BY OPERATIONS; ALL LOCKSETS TO BE KEYPED TO MATCH OPERATIONS SPECIFICATIONS

HARDWARE SCHEDULE

SET	QTY.	ITEM	MANUFACTURER	MODEL NUMBER
#1	3	HINGES	MCKINNEY MFG.	TA2714 X 4 1/2 X 4 1/2 (NRP) X US26D
	1	LOCKSET	SARGENT	8813FETLUS32D "LHR OR" RHR (PANIC EXIT BAR & KEY LOCK LEVER)
	3	SILENCERS	BUILDERS BRASSWORKS	W07
	2	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
#2	1	DOOR CLOSER	LCN CLOSERS	4111N EDA X ALUM X TB X LH" QB RH"
	3	HINGES	MCKINNEY MFG.	TA2714 X 4 1/2 X 4 1/2 X 1/2 X US26D
	1	LOCKSET (KEYPAD CYLINDER)	SARGENT	21 28-KP10G77 LL US26D MK
	3	SILENCERS	BUILDERS BRASSWORKS	W07
#3	1	DOOR CLOSER	LCN CLOSERS	4111N EDA X ALUM X TB X H" QB RH"
	1	ARMOR PLATE	BUILDERS BRASSWORKS	34" X 8" KICKPLATE
	1	KICKDOWN HOLDER	NONE	FRICITION HOLD OPEN
	1 SET	HINGES DOUBLE ACTING	ELIASON	BY MANUFACTURER
#4	1	FLOOR STOP	BUILDERS BRASSWORKS	F121 X US 26D
	2	PULL HANDLE	HANGER	3E X US32D
	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D
	2	HANDLES	HAGER	3E X US32D
#5	3	HINGES	MCKINNEY MFG.	TA2714 X 4 1/2 X 4 1/2 (NRP) X US26D
	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D
	3	SILENCERS	BUILDERS BRASSWORKS	W07
	2	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
#6	1	DOOR CLOSER	LCN CLOSERS	4111N EDAXALUMXTBXLH" QB RH"
	3	STANDARD HINGE	MCKINNEY MFG.	TA2714 X 4 1/2 X 4 1/2 (NRP) X US26D
	1	LOCKSET	DORMA	M904B LRB PRIVACY X WITH DUAL INDICATORS 626
	3	SILENCERS	ROCKWOOD	608
#7	1	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
	1	DOOR CLOSER	SARGENT	(INSWING: 351H) (OUTSWING: 351 CPSH)
	1	WALL STOP	ROCKWOOD	403 US26D
	3	HINGES	MCKINNEY MFG.	TA2714 X 4 1/2 X 4 1/2 (NRP) X US26D
#8	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D
	3	SILENCERS	BUILDERS BRASSWORKS	608
	1	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
	1	DOOR CLOSER	LCN CLOSERS	4111N EDAXALUMXTBXLH" QB RH"
#9	1	DOOR OPERATOR	NORTON	NORTON 6000 LOW ENERGY DOOR OPERATOR WITH A NORTON 700 WAVE-TO-OPEN SWITCH
	1	ELECTRIC STRIKE	HES	1600 SERIES

DOOR TYPE ELEVATIONS



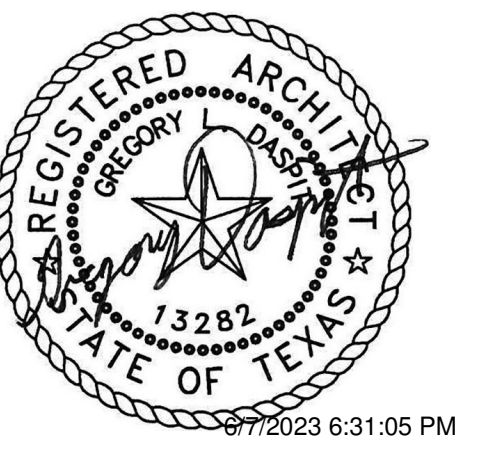
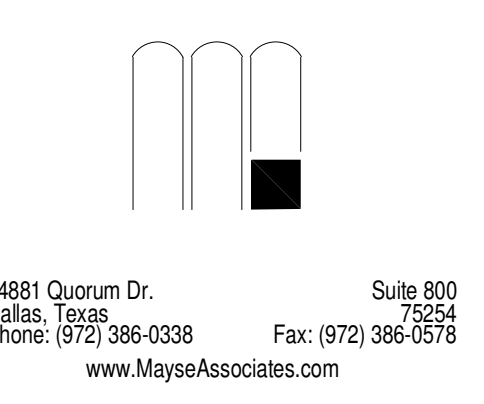
CONCEALED, FULL BREAKOUT, BI-PART TELESCOPIC SLIDING DOOR SYSTEM



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LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV

CONSTRUCTION DOCUMENTS

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DOOR AND HARDWARE SCHEDULE
 SHEET NUMBER

A-801

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 80307-A-801-DOOR AND HARDWARE SCHEDULE

GENERAL NOTES: CURB PLAN

1. ALL DIMENSIONS SHOWN ON COUNTERTOP PLAN ARE TAKEN FROM FACE OF FINISH (I.E. FACE OF TILE); UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS SHOWN ARE BASED ON DESIGN DRAWINGS. ACTUAL COUNTERTOPS SHOULD BE COORDINATED WITH FIELD CONDITIONS MAINTAINING ALL NOTED REQUIRED CLEARANCES.
3. "HIDE" SEAMS IN COUNTERTOPS WHENEVER POSSIBLE; LABEL SEAM LOCATIONS ON SHOP DRAWINGS.
4. STAINLESS STEEL TOPS (S-2) SHOULD HAVE A #4 FINISH WITH A SURFACE ROUGHNESS OF RA 25 MICRO INCHES OR LESS.
5. ALL SIDE AND BACK SPLASHES TO BE INTERGRAL. COORDINATE WITH MATERIAL.
6. ALL CURBS ARE TO BE MOUNTED DIRECTLY TO SUB FLOOR, DO NOT INSTALL ON TOP OF FLOOR TILE. SEE BASE DETAIL.

SHOP DRAWINGS NOTED:
 1. DIMENSIONS SHOWN ARE FOR DESIGN INTENT; MILLWORK MANUFACTURE IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. COORDINATE WITH DETAILS AS APPLICABLE.
 2. GENERAL CONTRACTOR IS TO ENSURE THAT MILLWORK PROVIDER SUBMIT SHOP DRAWINGS TO MAYSE AND ASSOCIATES ARCHITECTS PRIOR TO THE START OF MILLWORK PRODUCTION. ALLOW (5) DAYS FOR REVIEW.

A-901 - KEY NOTES - CURB PLAN

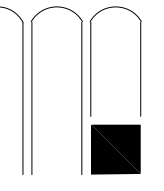
MARK	Notes
1	LINE OF PRESSURE TREATED CURB BELOW, CURBS CONSTRUCTED BY G.C. AND INSTALLED DIRECTLY ON SLAB, NOT ON TOP OF FLOORING. COORDINATE SIZE AND LOCATIONS WITH A-201, IN FIELD CONDITIONS, AND MILLWORK MANUFACTURER SHOP DRAWINGS. CURBS ARE NOT FIRE-RETARDANT TREATED UNLESS REQUIRED BY AHJ; NOTIFY ARCHITECT FOR ADDITIONAL DETAILS IF REQUIRED BY AHJ.
2	COORDINATE CURB DIMENTION AND LOCATION WITH REQUIRED EQUIPMENT CLEARANCES, AND TOE KICK REQUIREMENTS
3	DIMENSION SHOWN IS FOR REFERENCE ONLY; COORDINATE EXACT CURB DIMENSION WITH IN FIELD CONDITIONS AT ALL WALL LOCATIONS.
4	FACE OF PRESSURE TREATED CURB TO ALIGN WITH FACE OF SHEATHING



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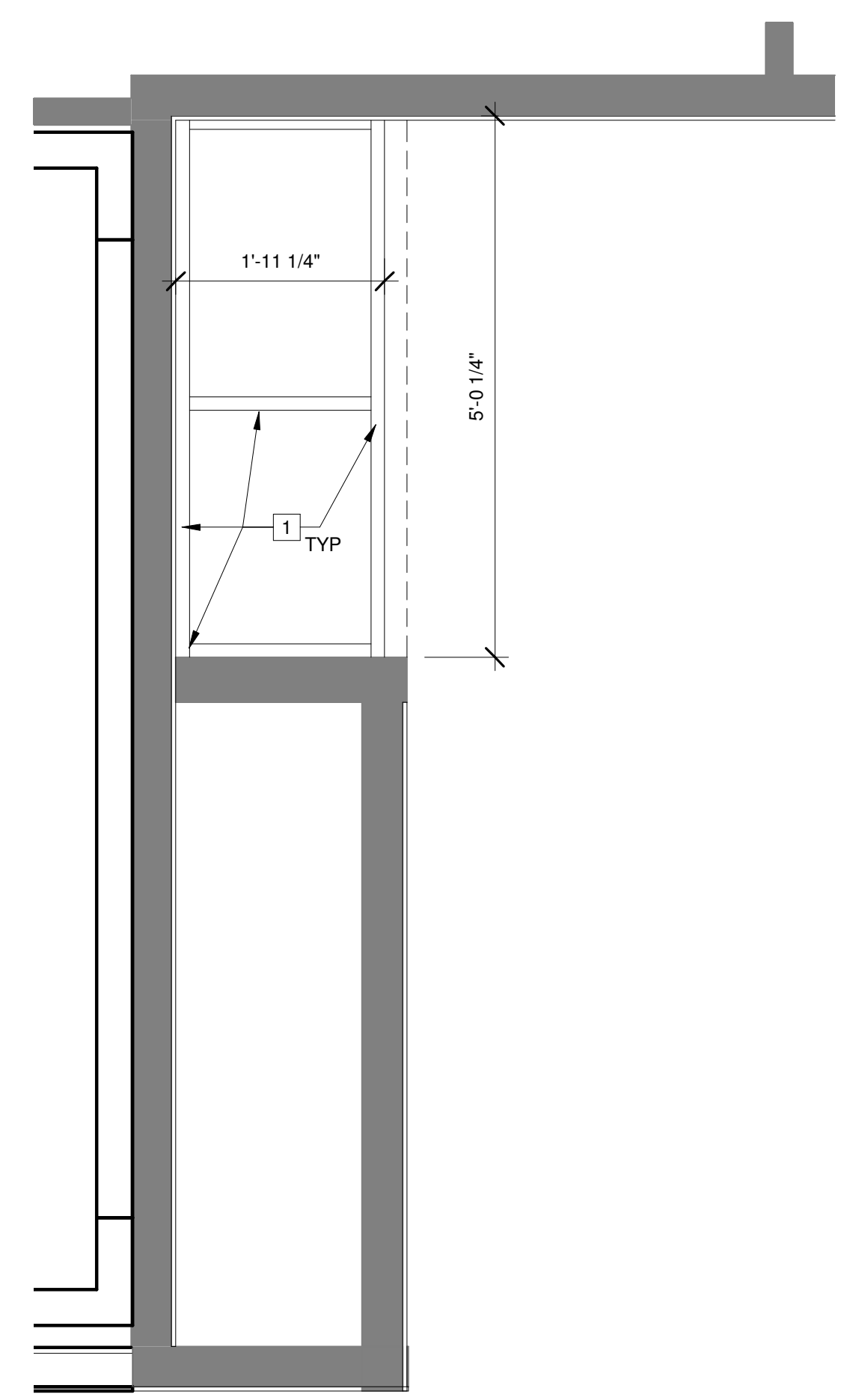
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 RELEASE: 20-11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

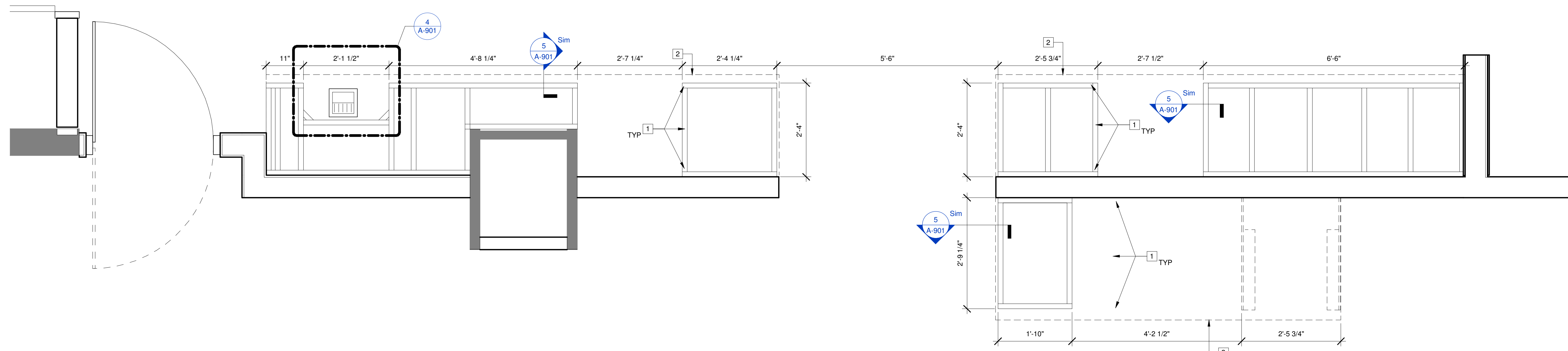
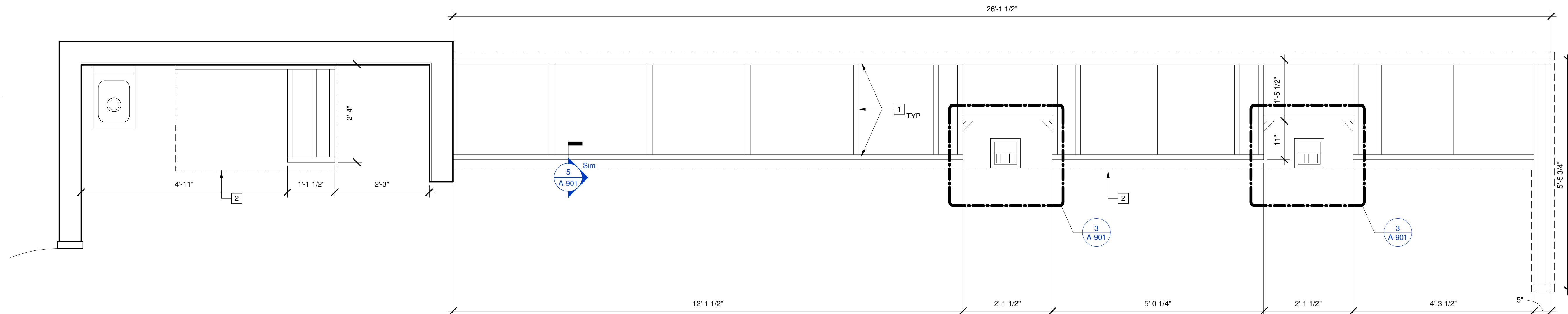
CONSTRUCTION DOCUMENTS

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 SHEET MILLWORK CURB PLAN AND DETAILS
 SHEET NUMBER

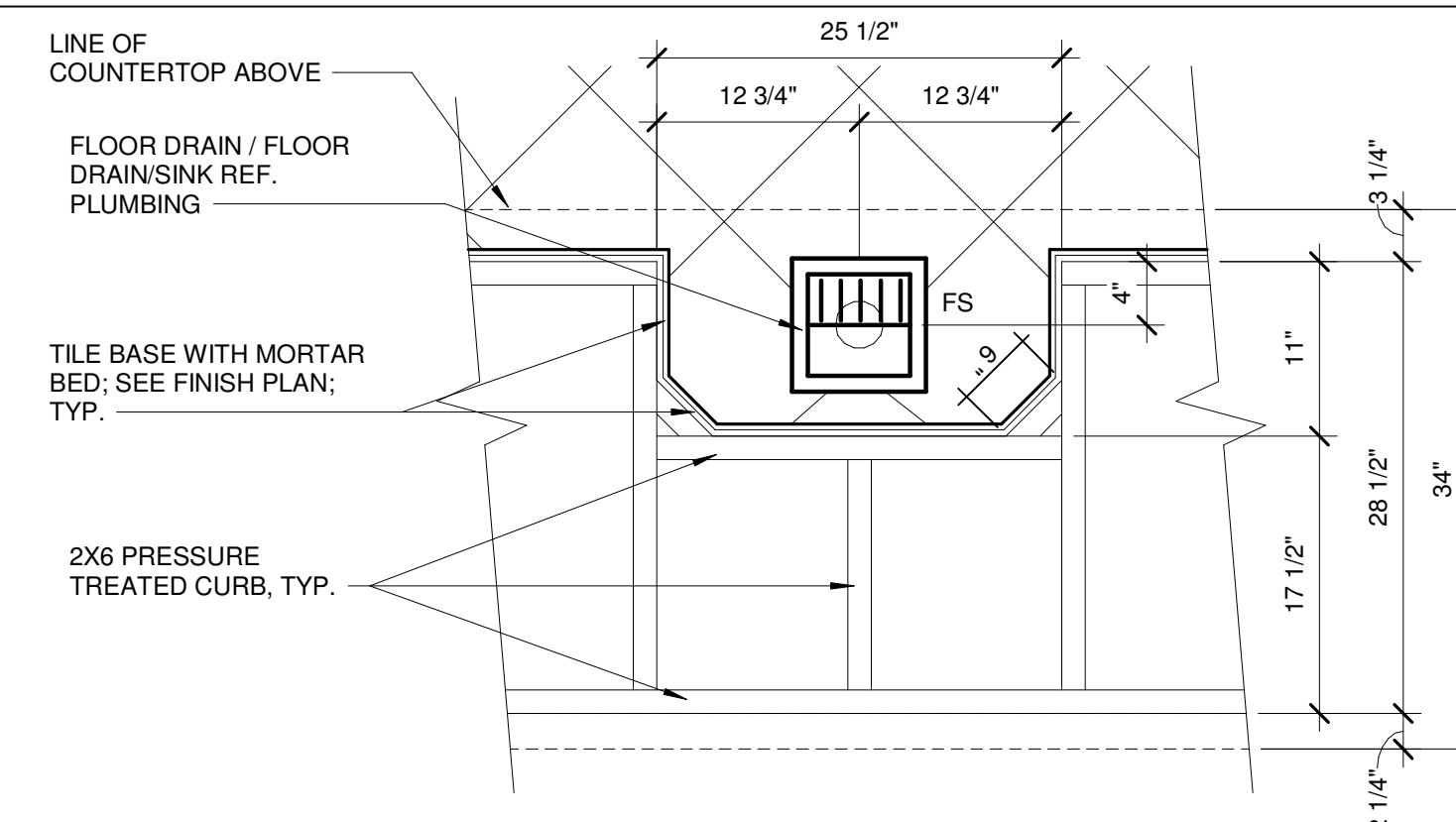
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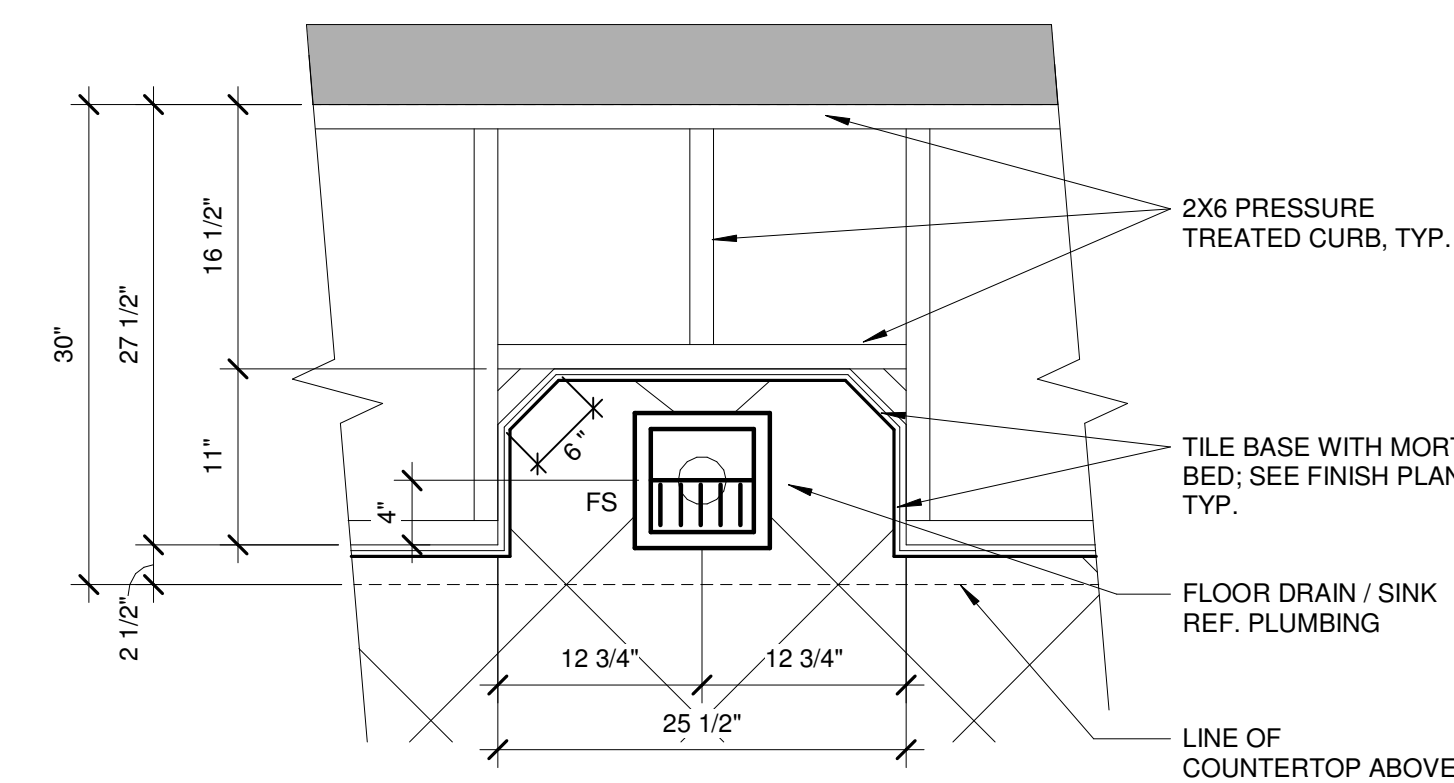
2. MILLWORK CURB PLAN
 3/4" = 1'-0"



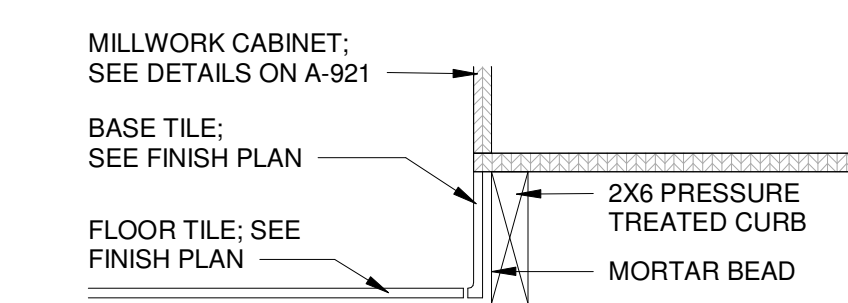
1. MILLWORK CURB PLAN
 3/4" = 1'-0"



3. DRAIN PLACEMENT DETAIL @ FRONT COUNTER
 1" = 1'-0"



4. DRAIN PLACEMENT DETAIL @ BACK COUNTER
 1" = 1'-0"



5. SECTION : WALL MOUNTED SUPPORT
 1 1/2" = 1'-0"

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 80307-A-901-MILLWORK CURB PLAN AND DETAILS

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 80307-A-902-MILLWORK COUNTERTOP PLAN

GENERAL NOTES: COUNTERTOP PLAN

1. ALL DIMENSIONS SHOWN ON COUNTERTOP PLAN ARE TAKEN FROM FACE OF FINISH (I.E. FACE OF TILE); UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS SHOWN ARE BASED ON DESIGN DRAWINGS. ACTUAL COUNTERTOPS SHOULD BE COORDINATED WITH FIELD CONDITIONS MAINTAINING ALL NOTED REQUIRED CLEARANCES.
3. "HIDE" SEAMS IN COUNTERTOPS WHENEVER POSSIBLE; LABEL SEAM LOCATIONS ON SHOP DRAWINGS.
4. STAINLESS STEEL TOPS (S-2) SHOULD HAVE A #4 FINISH WITH A SURFACE ROUGHNESS OF RA 25 MICRO INCHES OR LESS.
5. ALL SIDE AND BACK SPLASHES TO BE INTEGRAL. COORDINATE WITH MATERIAL.

SHOP DRAWINGS NOTED:
 1. DIMENSIONS SHOWN ARE FOR DESIGN INTENT; MILLWORK MANUFACTURE IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. COORDINATE WITH DETAILS AS APPLICABLE.
 2. GENERAL CONTRACTOR IS TO ENSURE THAT MILLWORK PROVIDER SUBMIT SHOP DRAWINGS TO MAYSE AND ASSOCIATES ARCHITECTS PRIOR TO THE START OF MILLWORK PRODUCTION. ALLOW (5) DAYS FOR REVIEW

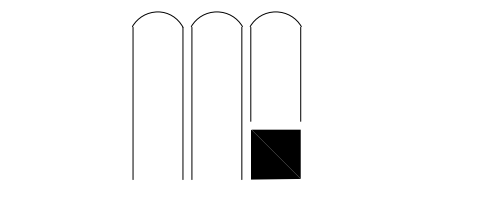
A-902 - KEY NOTES - COUNTER TOP PLAN	
MARK	NOTES
1	LINE OF CURB BELOW; 1/A901 FOR FULL LAYOUT
2	LINE OF STAINLESS STEEL COUNTERTOP CONNECTION; COUNTERTOPS TO BE MECHANICALLY FASTENED TO ENSURE TIGHT FIT AT SEAMS. SEE MILLWORK SECTIONS
3	ASSUMED SEAM LOCATION IN STAINLESS STEEL COUNTERTOP; SEAM TO BE WELDED, GROUND SMOOTH, AND FINISHED TO MATCH ADJACENT SURFACES
4	2" DIA. HOLE FOR ELECTRICAL CORD; PROVIDE STAINLESS STEEL GROMMET
5	CUT-OUT FOR EQUIPMENT BEVERAGE DISPENSER (#315); BEVERAGE DISPENSER NOT SPECIFIED IN THIS PACKAGE (24" X 24" OPENING SHOWN); MILLWORK MANUFACTURER TO COORDINATE WITH REQUIREMENTS OF EQUIPMENT SELECTED BY FOOD SERVICE PROVIDER
6	STAINLESS STEEL COUNTERTOP BY CALYTON FIXTURE AS PART OF PASS-THRU CABINET CUT SHEET
7	GAP AT DISSIMILAR MATERIALS TO BE CAULKED WITH CLEAR, WATERPROOF, MOLD AND MILDEW RESISTANT, HEAT RESISTANT, FAST DRAWING CAULK; CLEAN ADJACENT SURFACES AS NECESSARY
8	ASSUMED LOCATION OF SEAM IN SOLID SURFACE; MILLWORK MANUFACTURE TO COORDINATE WITH STRUCTURAL SUPPORT; "HIDE" SEAM WHENEVER POSSIBLE; LABEL SEAM LOCATIONS ON SHOP DRAWINGS
9	INTEGRAL STAINLESS STEEL BACK SPLASH



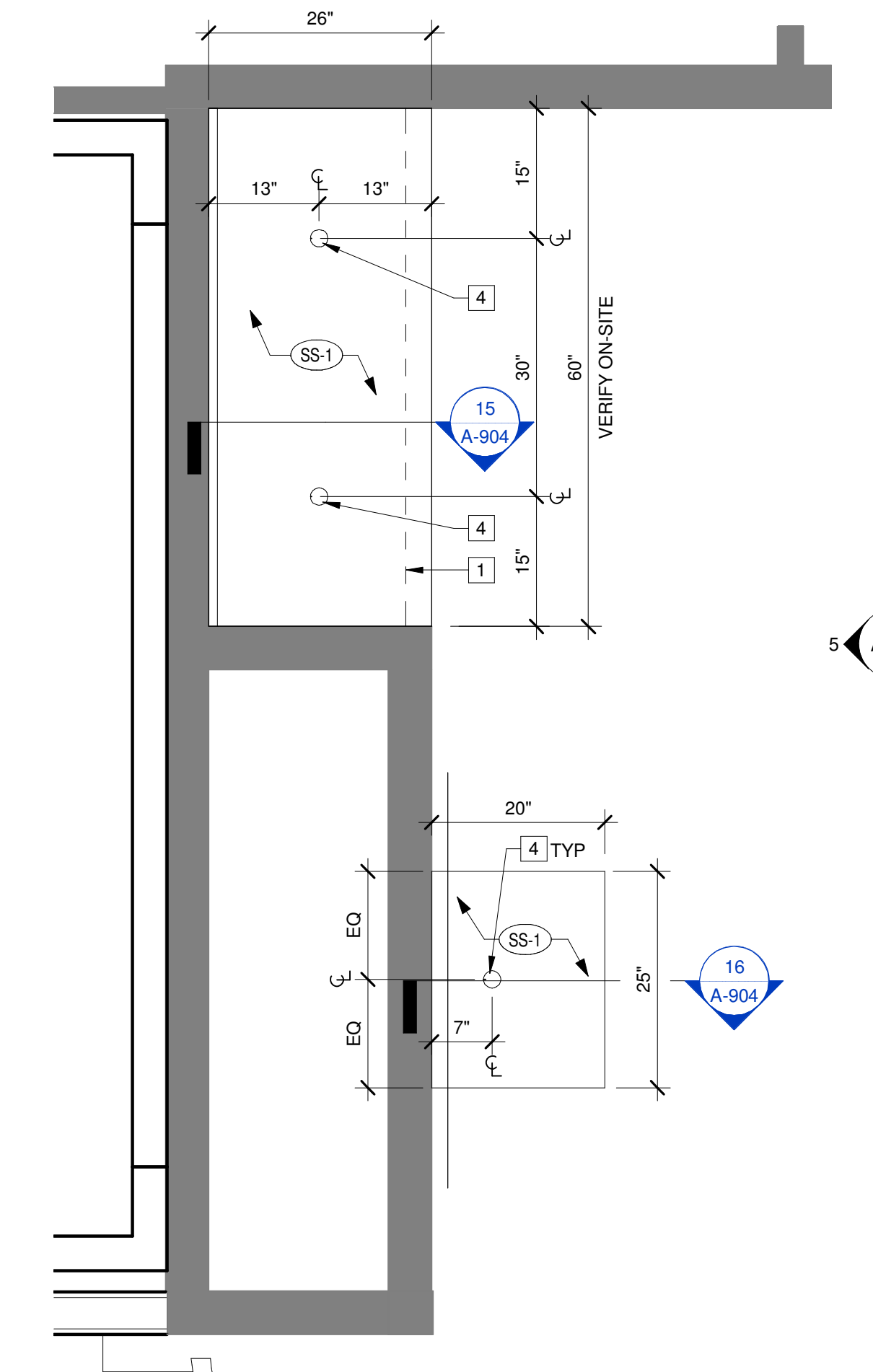
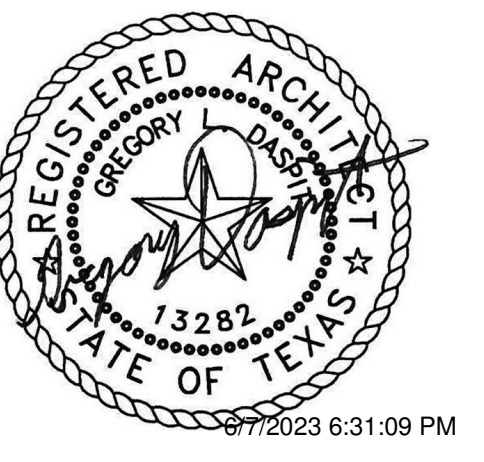
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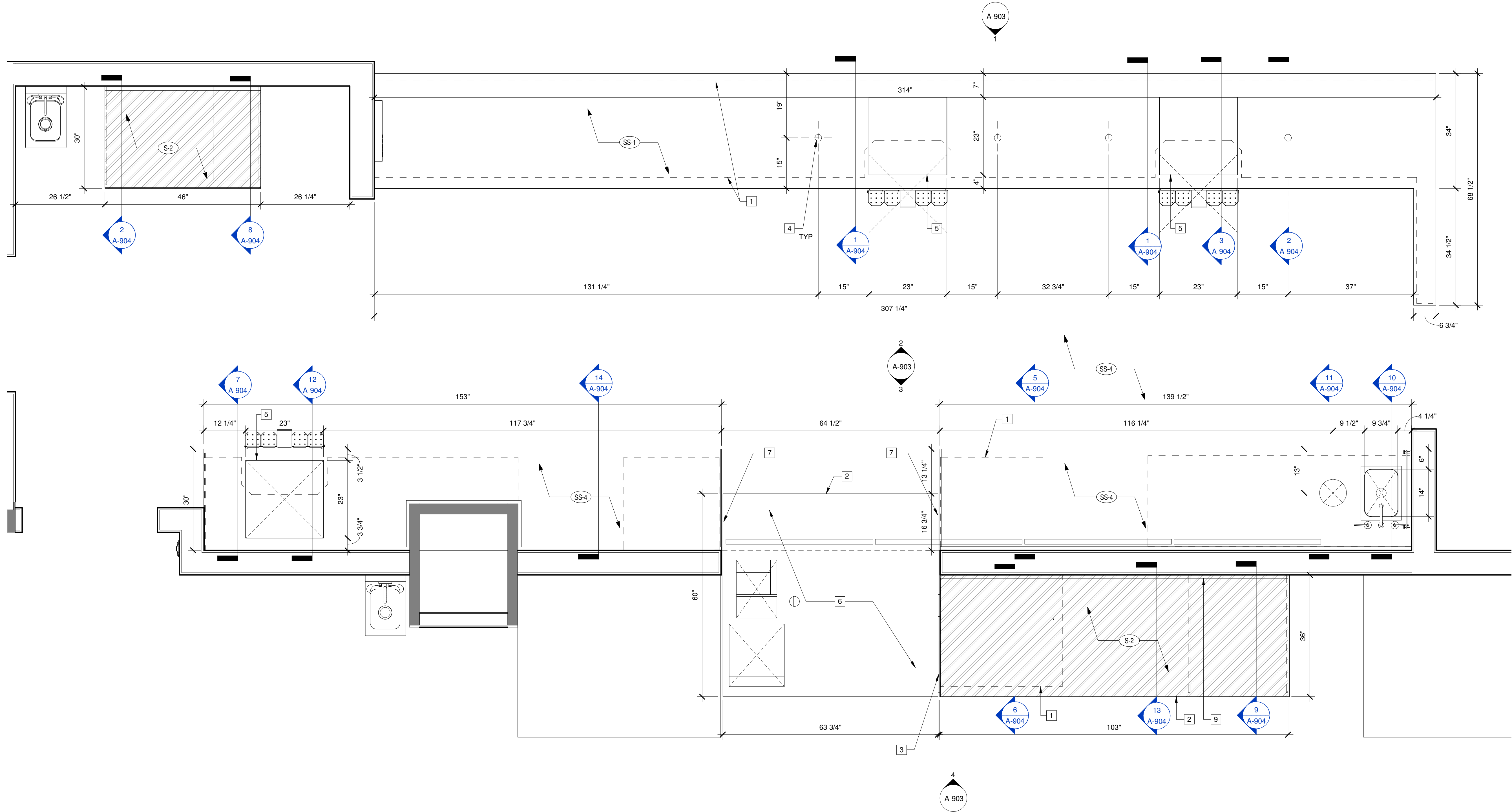
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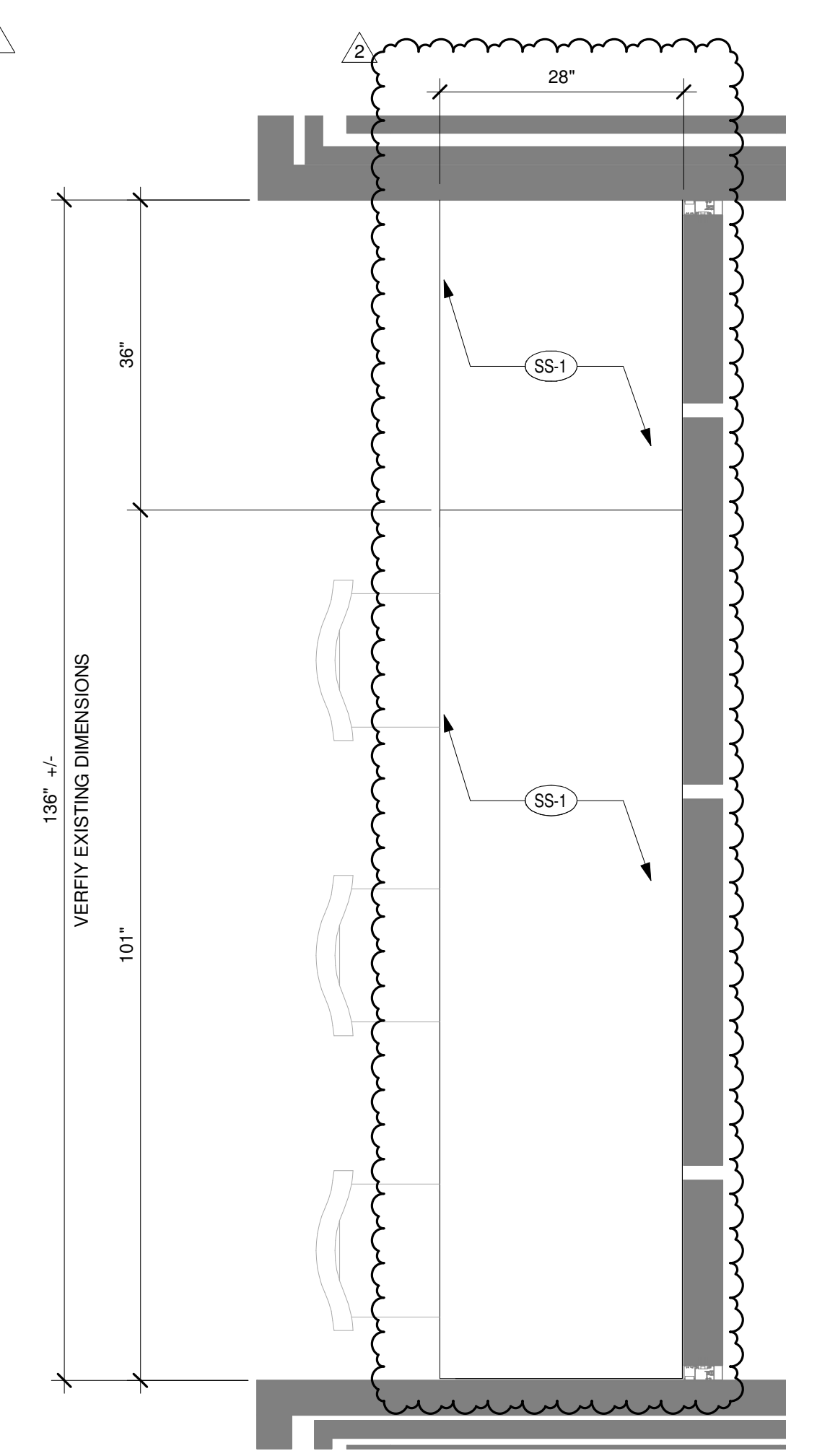
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2 MILLWORK COUNTERTOP PLAN - MOBILE KIOSK
 3/4" = 1'-0"



1 MILLWORK COUNTERTOP PLAN - SERVING & KITCHEN
 3/4" = 1'-0"



3 MILLWORK COUNTERTOP PLAN - BAR COUNTER - TYP
 3/4" = 1'-0"

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1	04.28.2023	UNIT REVIEW REV	
2	06.02.2023	UNIT REVIEW REV-2	

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SHEET MILLWORK COUNTERTOP PLAN	
SHEET NUMBER	

A-902

GENERAL NOTES: MILLWORK

1. GENERAL CONTRACTOR IS TO ENSURE THAT MILLWORK PROVIDER SUBMITS SHOP DRAWINGS TO HILL FOLEY ROSSI FOR REVIEW AND APPROVAL PRIOR TO THE START OF MILLWORK PRODUCTION. ALLOW (5) BUSINESS DAYS FOR REVIEW.
2. GENERAL CONTRACTOR OR MILLWORK MANUFACTURER TO VERIFY DIMENSIONS OF ANY WALLS ADJACENT TO MILLWORK AFTER DEMOLITION AND INSTALLATION OF NEW WALLS BUT PRIOR TO FABRICATION OF ANY MILLWORK.
3. ALL FACES AND EDGES ARE TO BE FINISHED TO MATCH MILLWORK FACES, INCLUDING EDGES OF STILES AND UNDERSIDE OF COUNTERTOPS, IF EXPOSED.
4. ALL FACES AND EDGES OF BOARDS COUNTER TO BE COVERED WITH WHITE PLASTIC LAMINATE OR WHITE CABINET LINER, U.N.O.
5. NO GAPS, CAULK ALL SEAMS, CORNERS, JOINTS, ETC.
6. ALL VERTICAL SEAMS IN FRONT COUNTER TO BE CONCEALED.

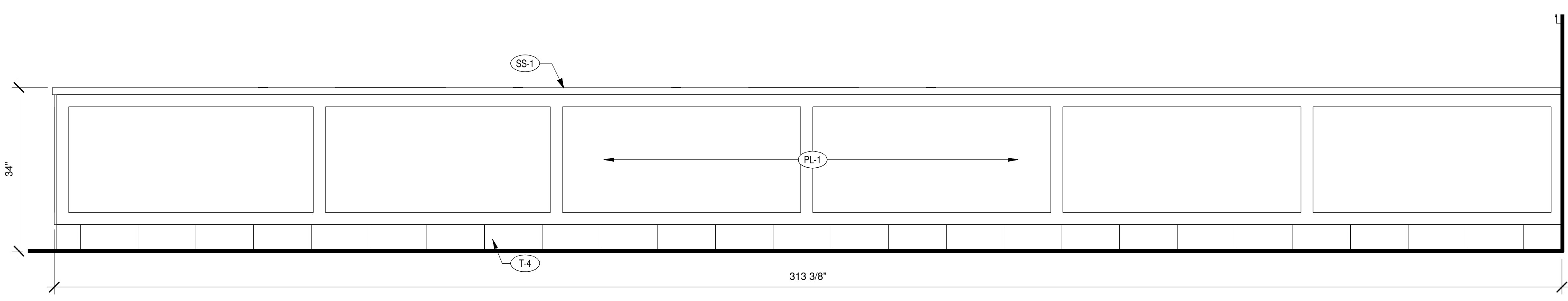


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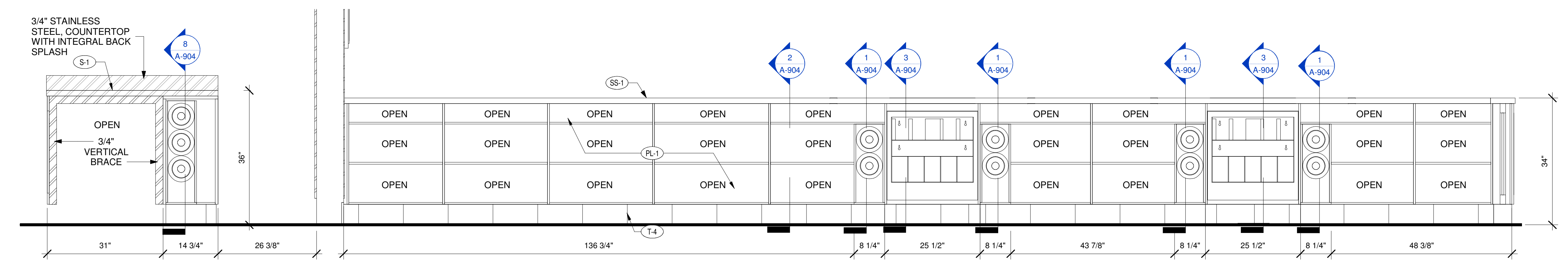
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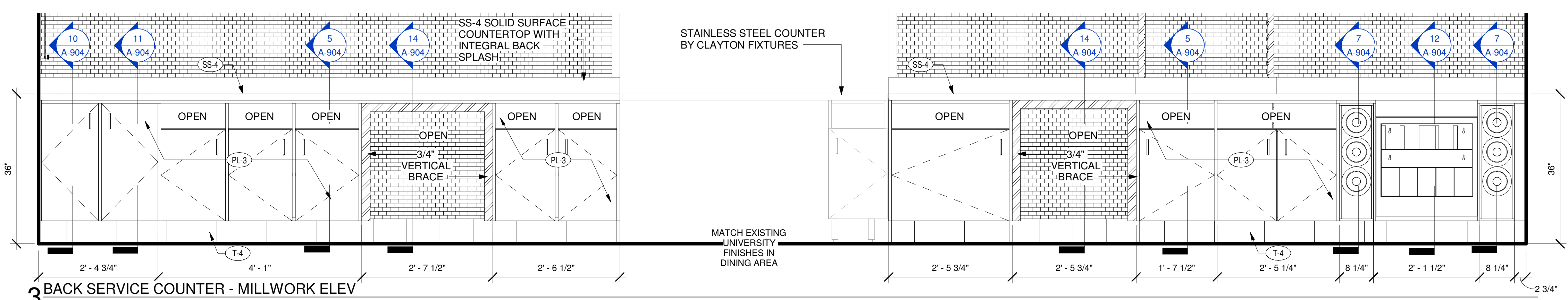
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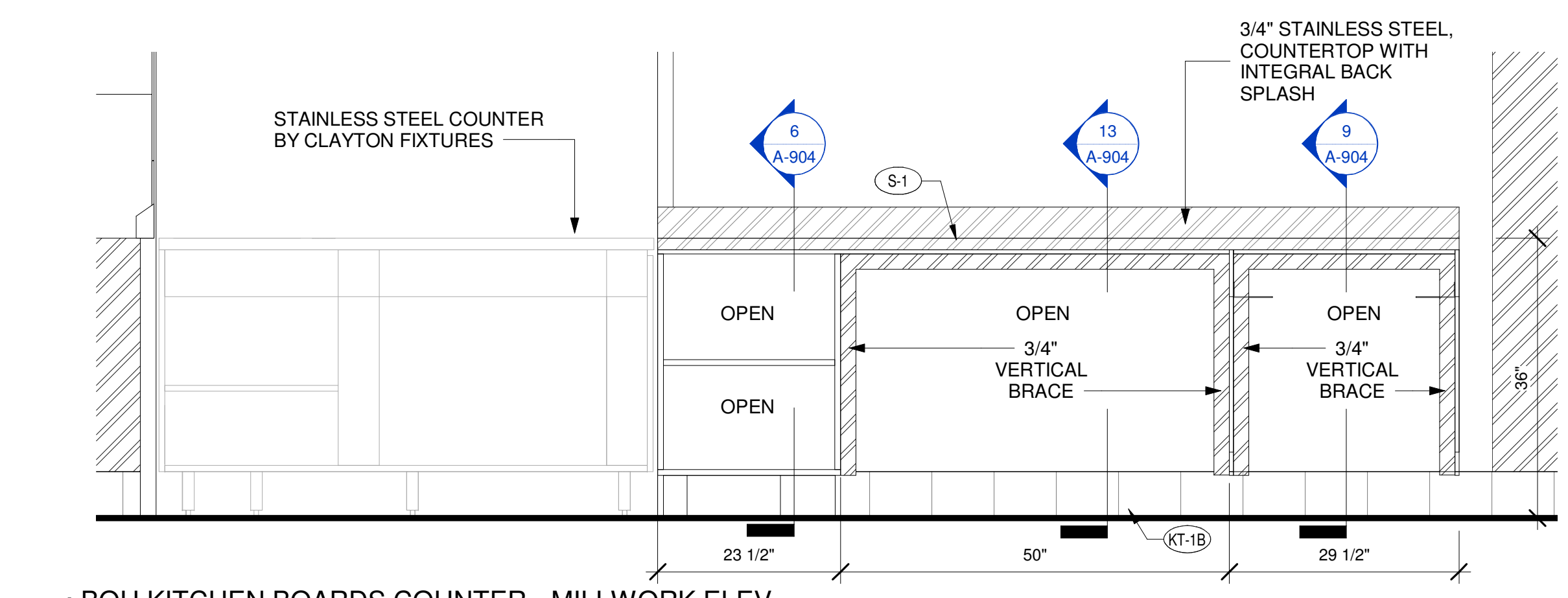
1 FRONT SERVICE COUNTER - FRONT MILLWORK ELEV
3/4" = 1'-0"



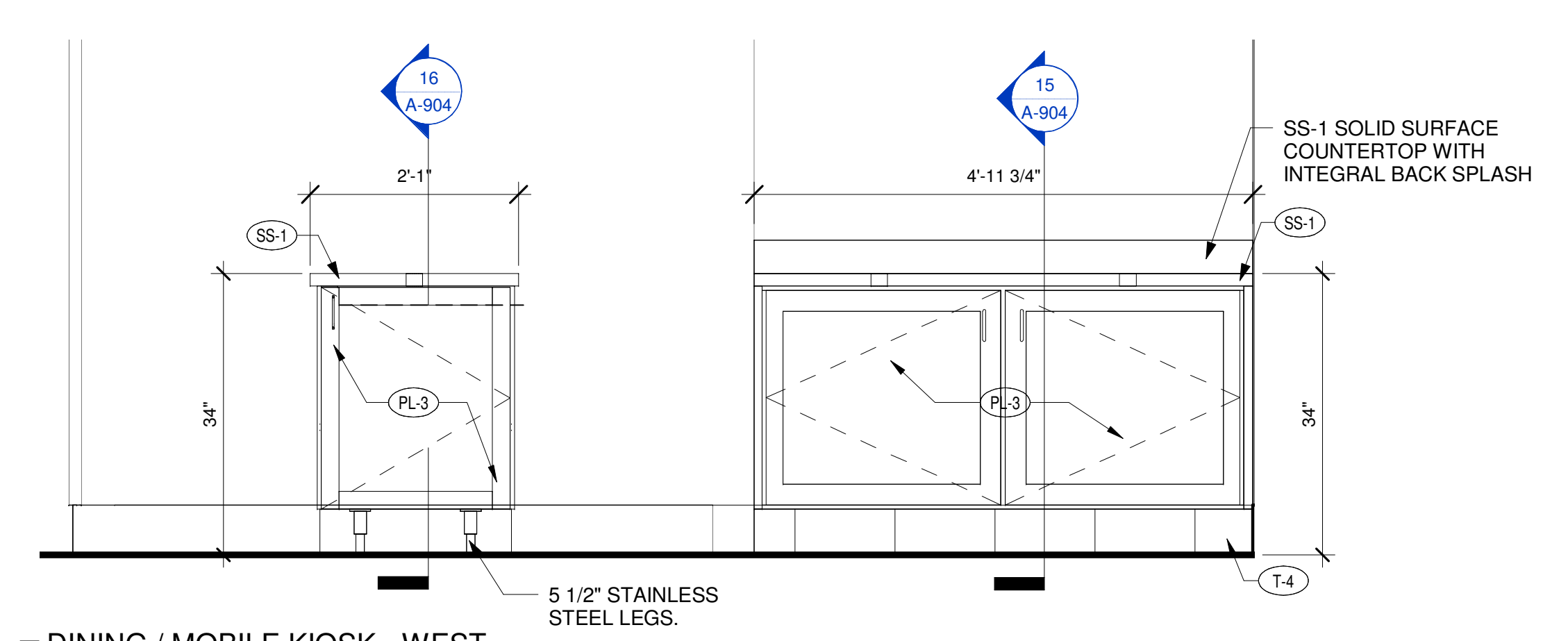
2 FRONT SERVICE COUNTER - BACK MILLWORK ELEV
3/4" = 1'-0"



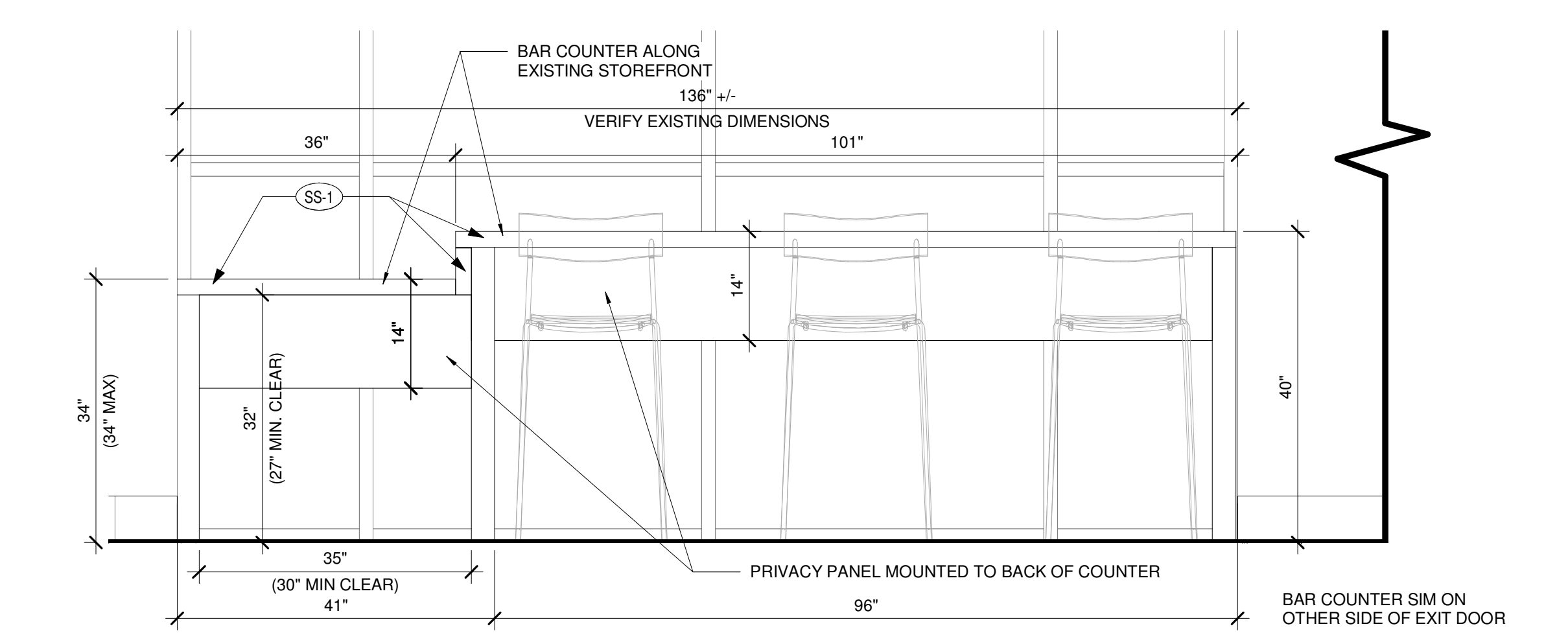
3 BACK SERVICE COUNTER - MILLWORK ELEV
3/4" = 1'-0"



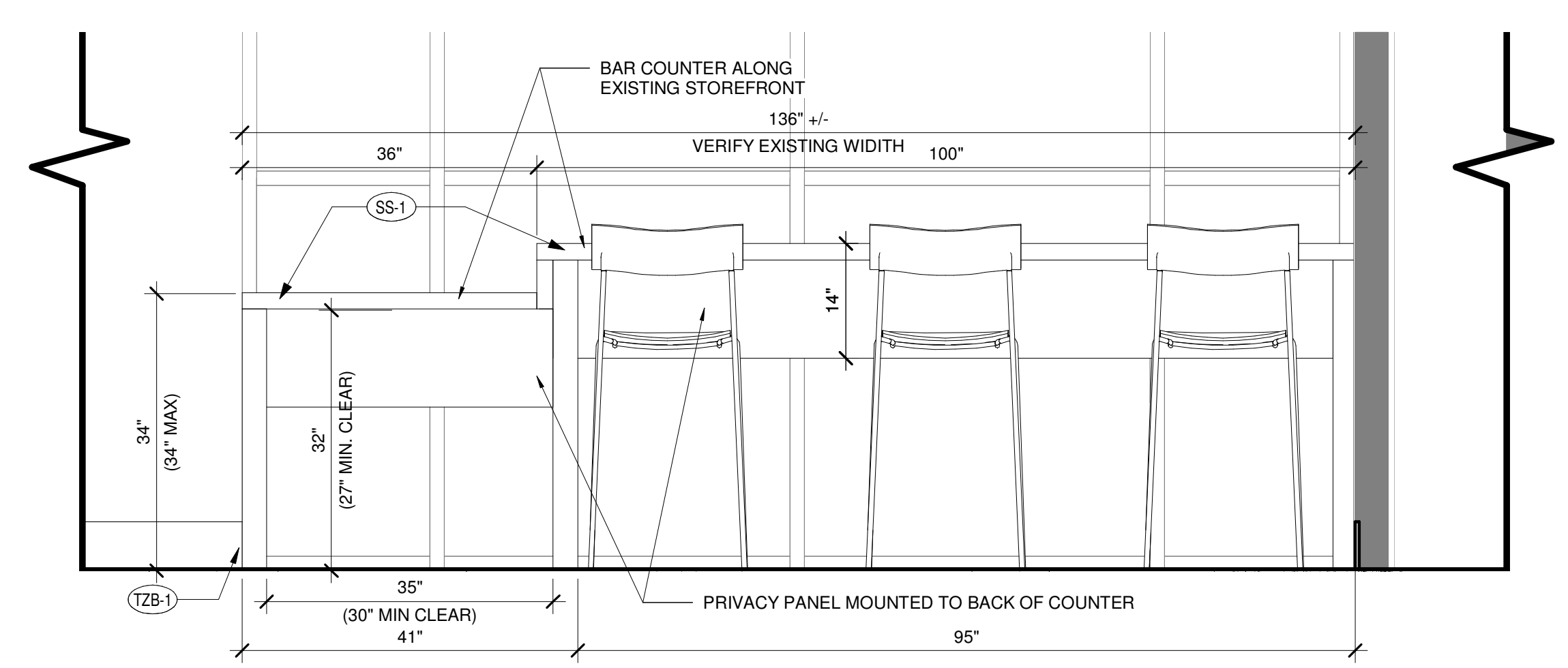
4 BOH KITCHEN BOARDS COUNTER - MILLWORK ELEV
3/4" = 1'-0"



5 DINING / MOBILE KIOSK - WEST
3/4" = 1'-0"



6 DINING / STOREFRONT - EAST
3/4" = 1'-0"



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LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20-11

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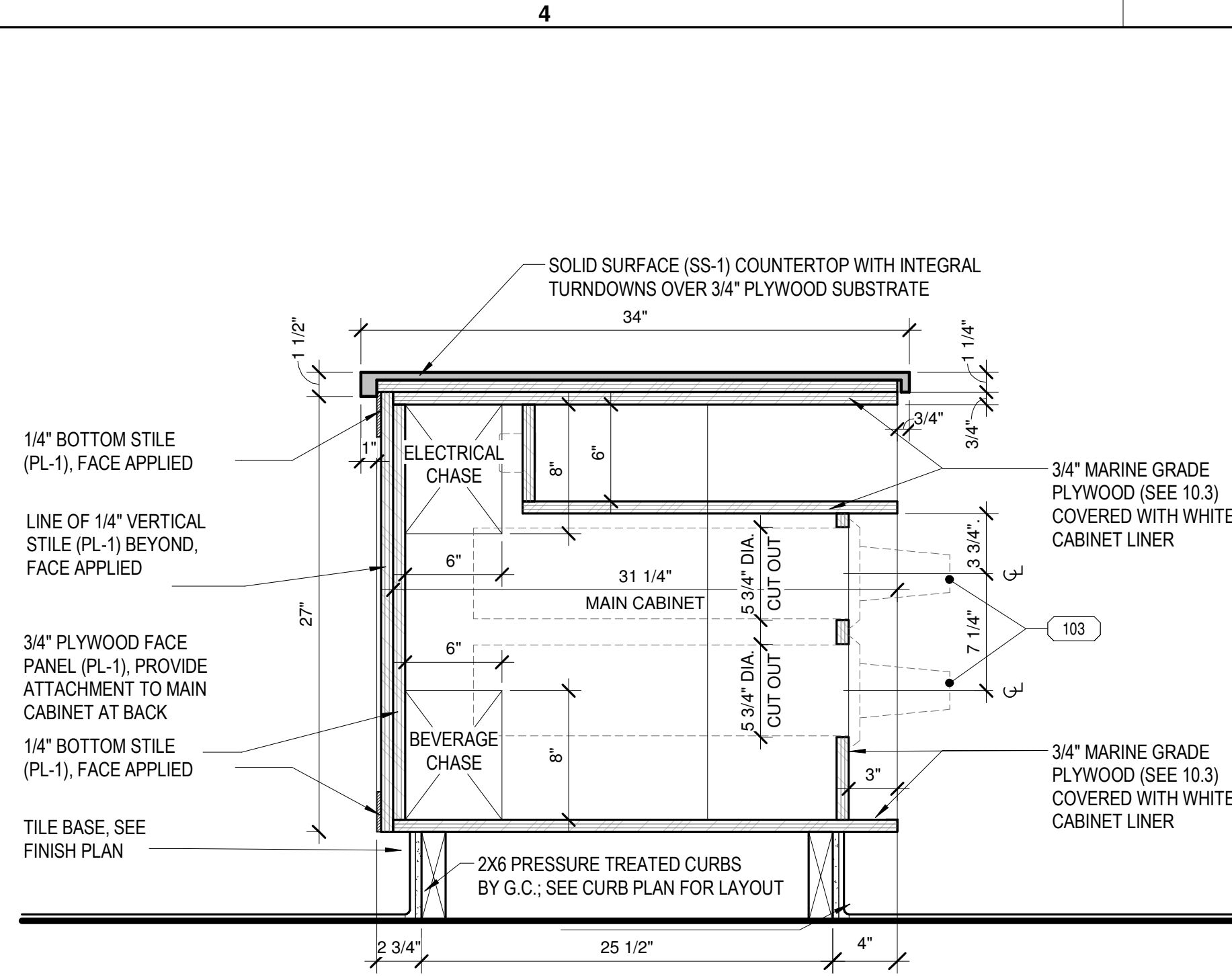
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SHEET NUMBER

A-903

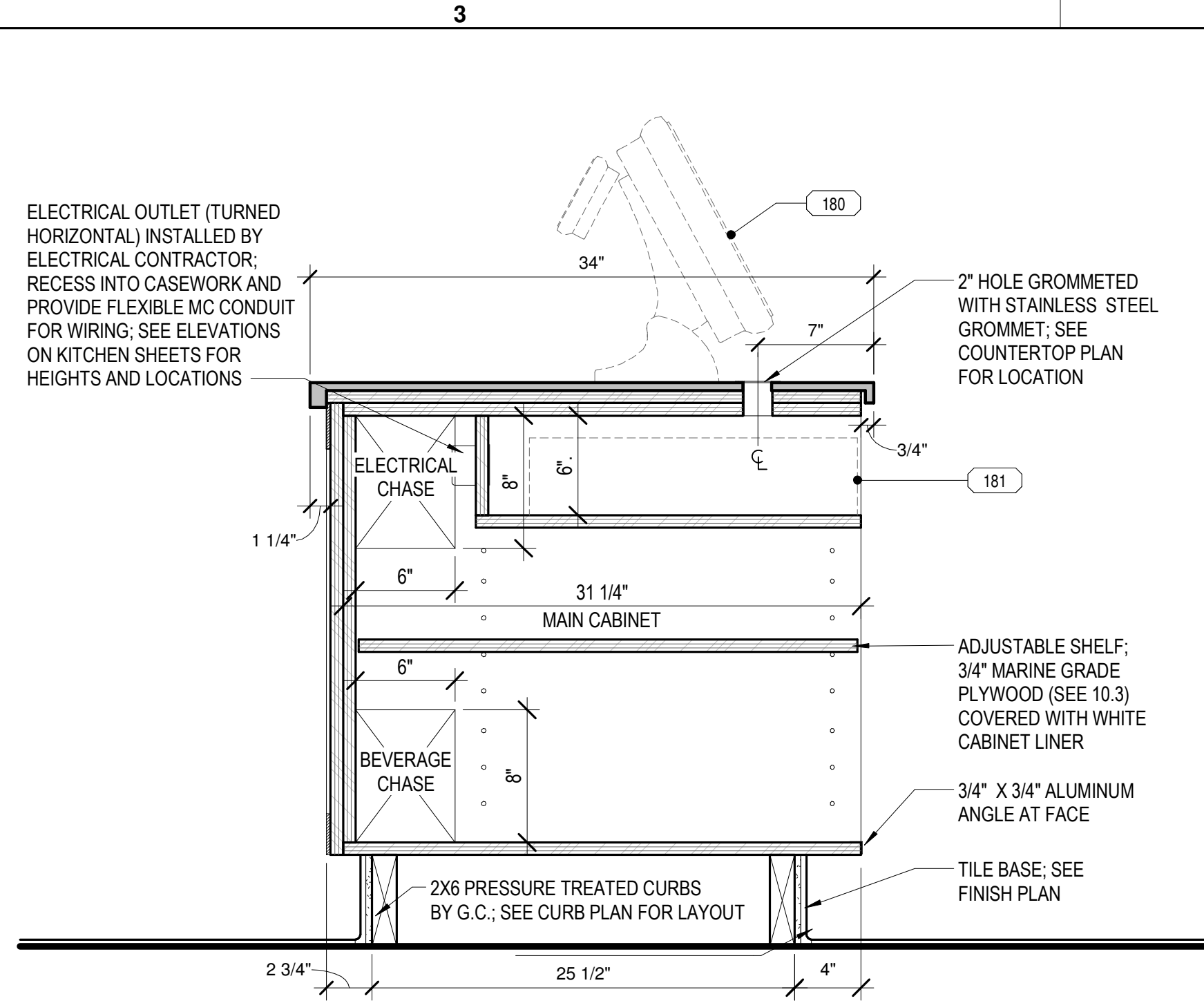
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80307-A-903-MILLWORK ELEVATIONS

CONSTRUCTION DOCUMENTS

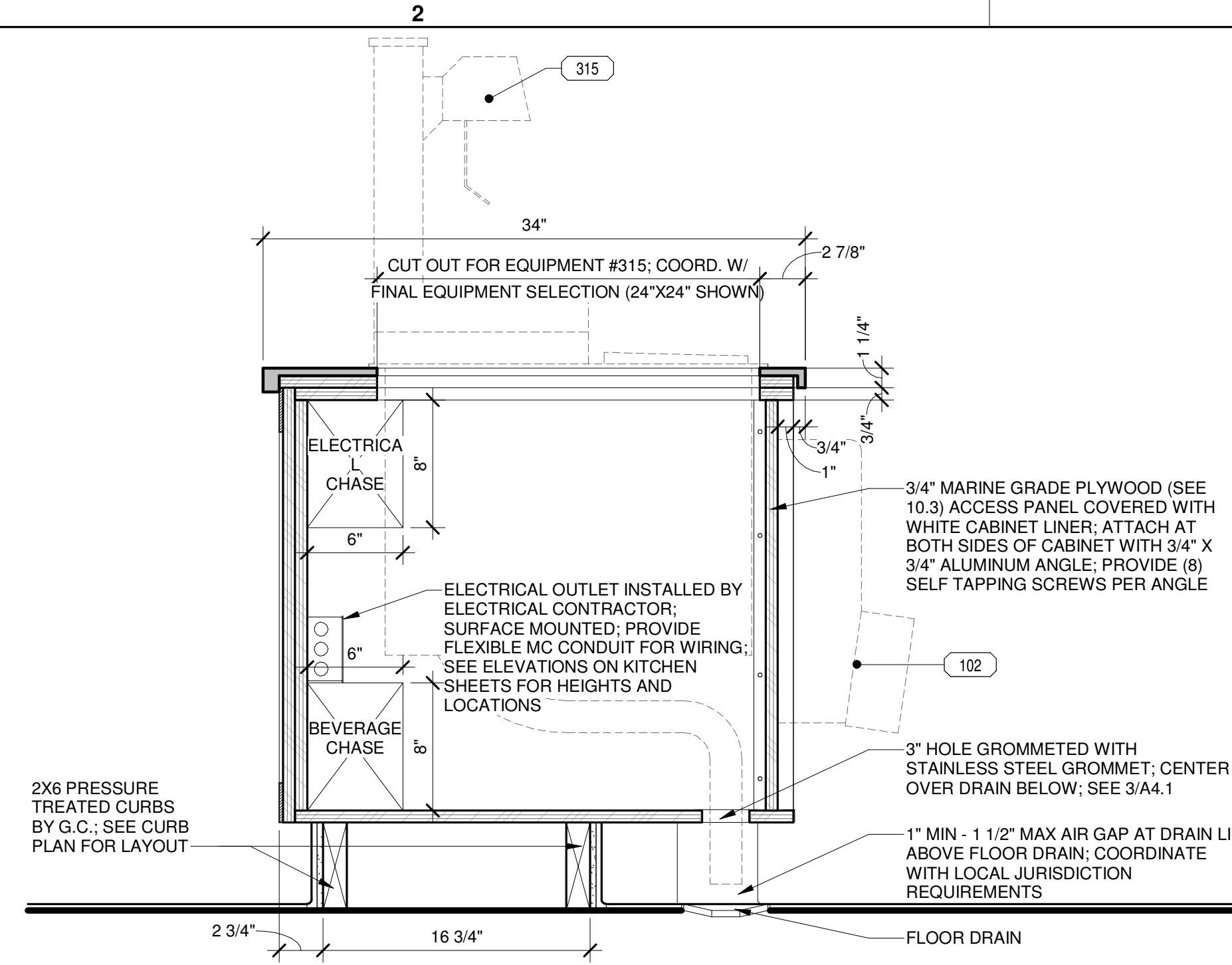
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6/7/2023 6:31:15 PM
80307-A-904-MILLWORK SECTIONS



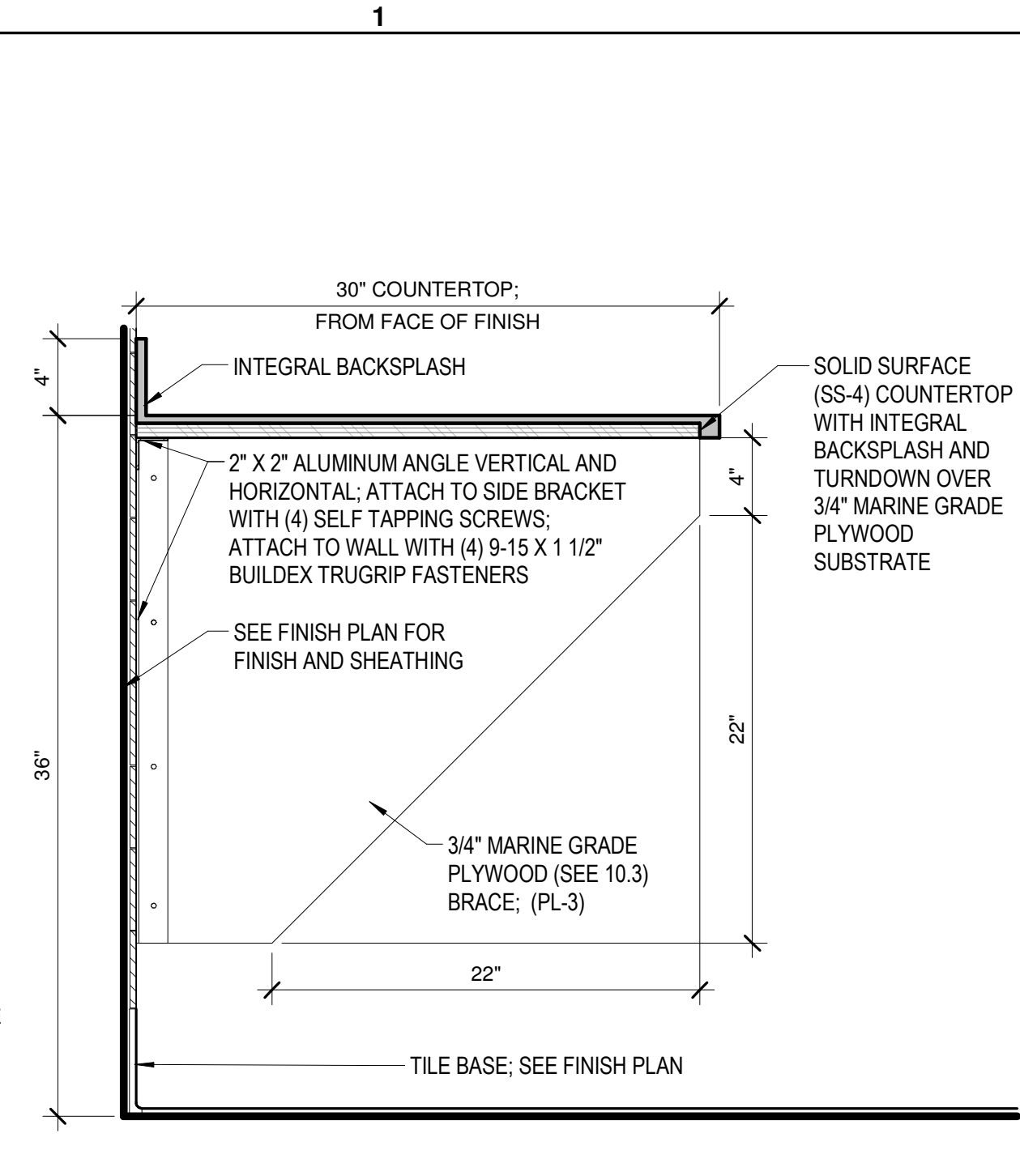
1 SECTION: COUNTER SECTION CUP DISPENSER
1 1/2" = 1'-0"



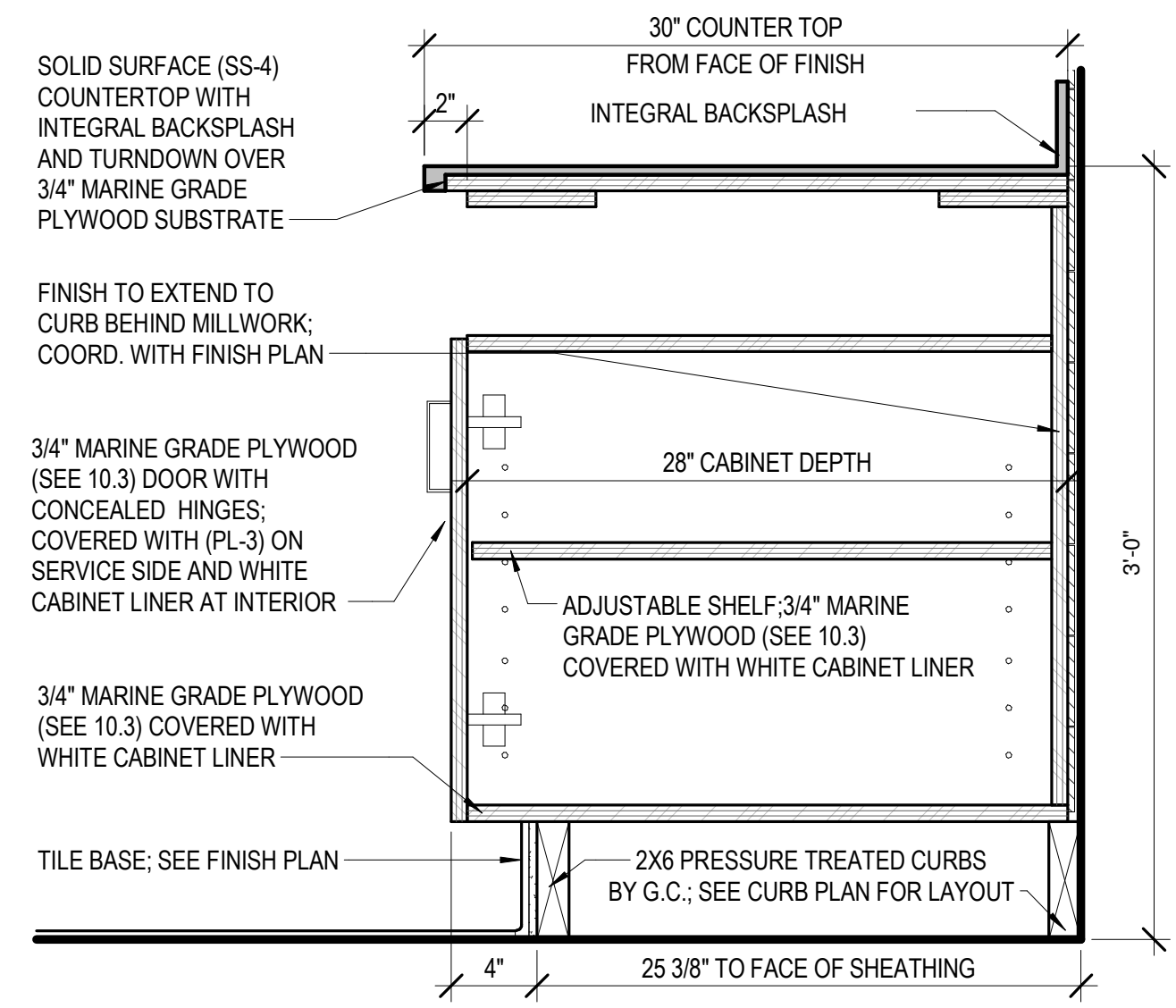
2 SECTION: CASH DRAWER
1 1/2" = 1'-0"



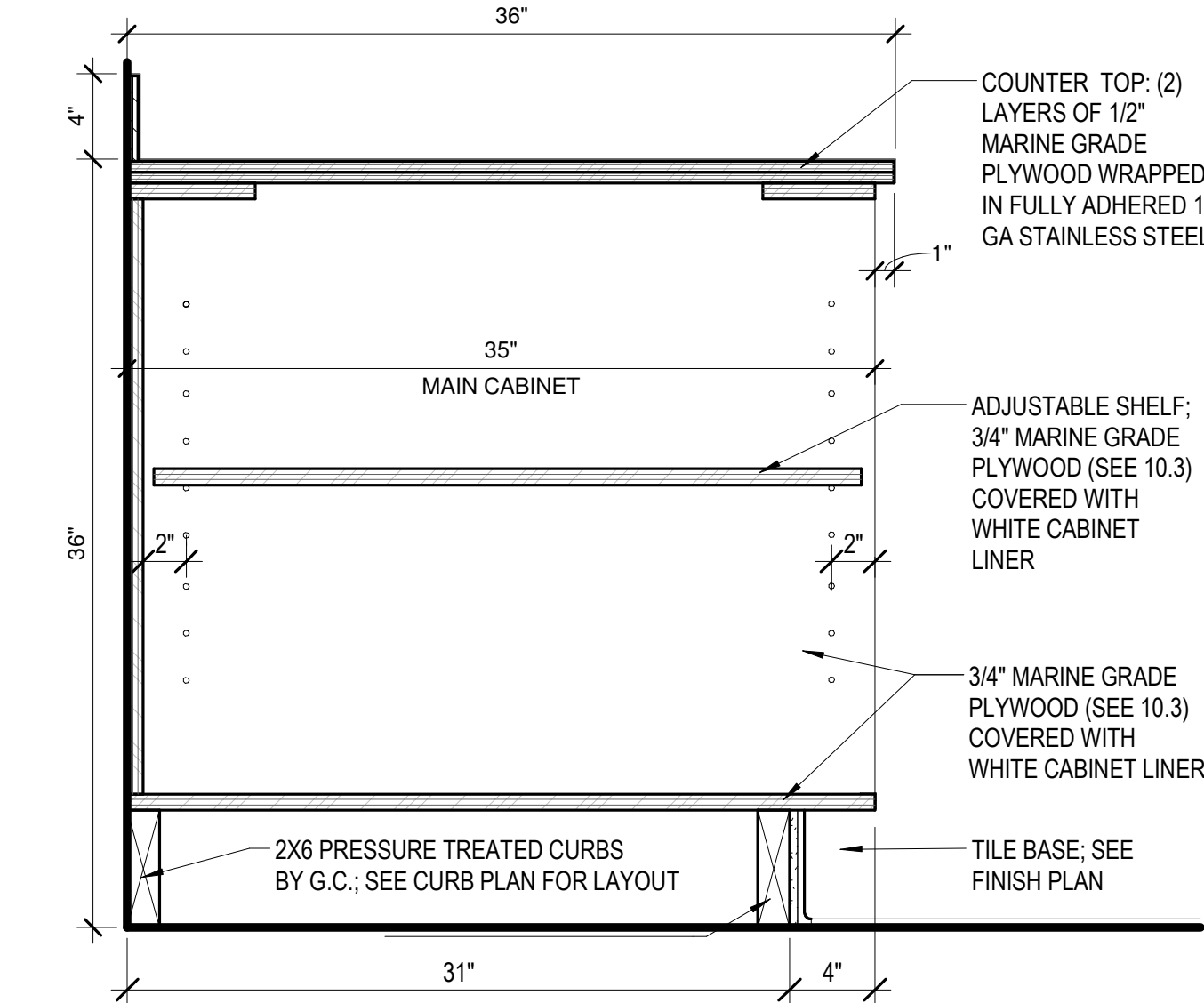
3 SECTION: DRINK TOWER @ FRONT
1 1/2" = 1'-0"



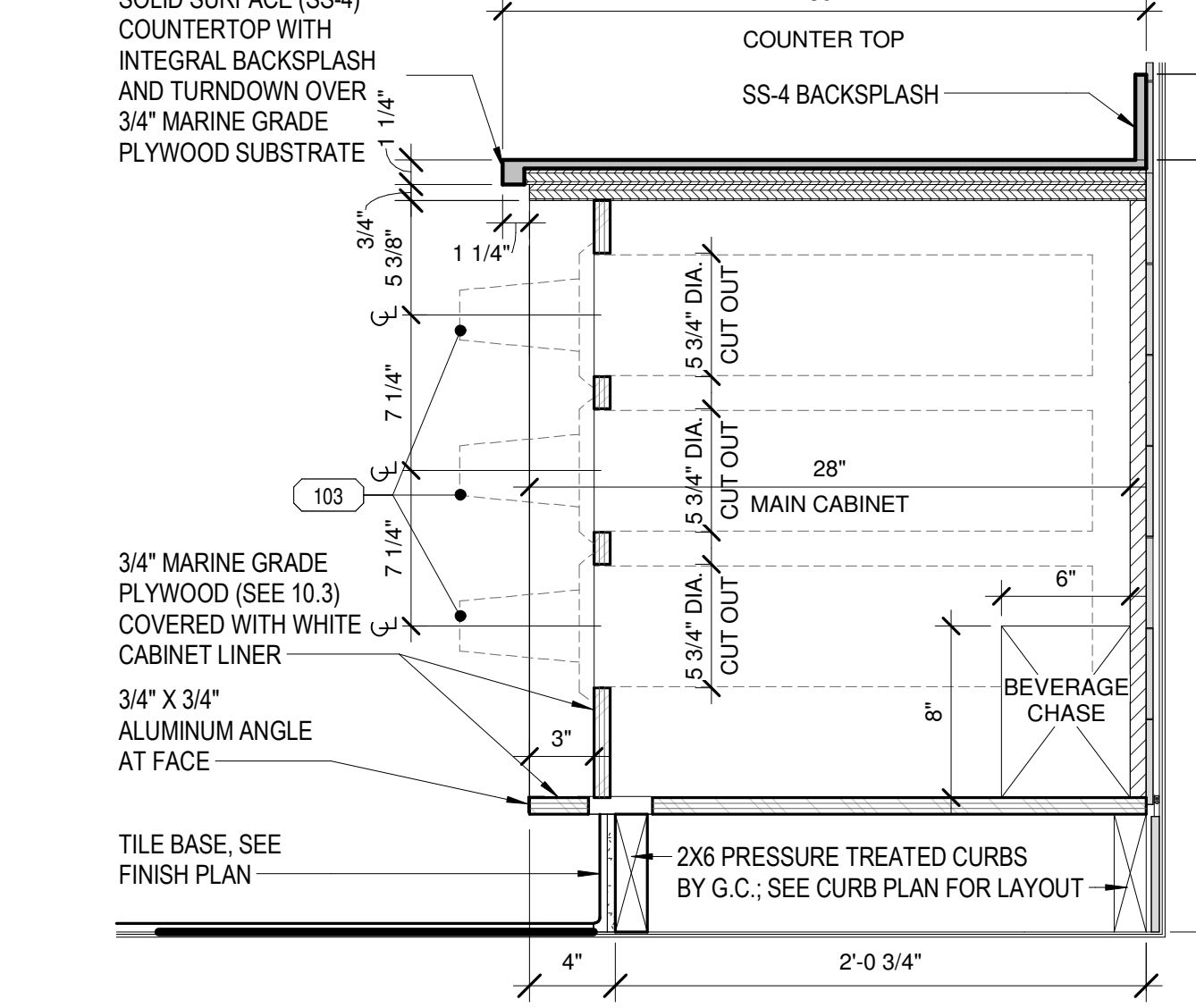
4 SECTION: WALL MOUNTED SUPPORT
1 1/2" = 1'-0"



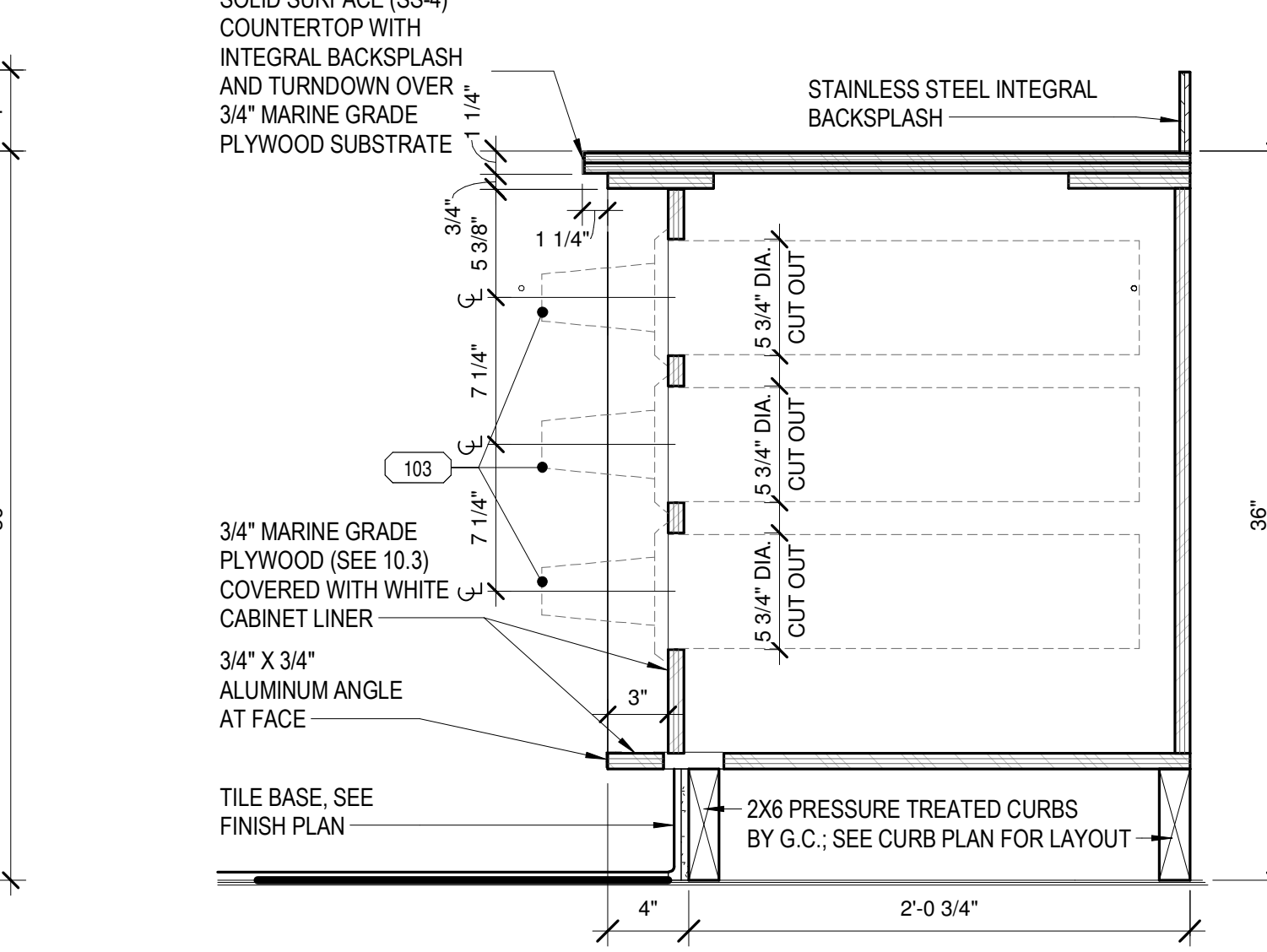
5 SECTION: STANDARD REAR
1 1/2" = 1'-0"



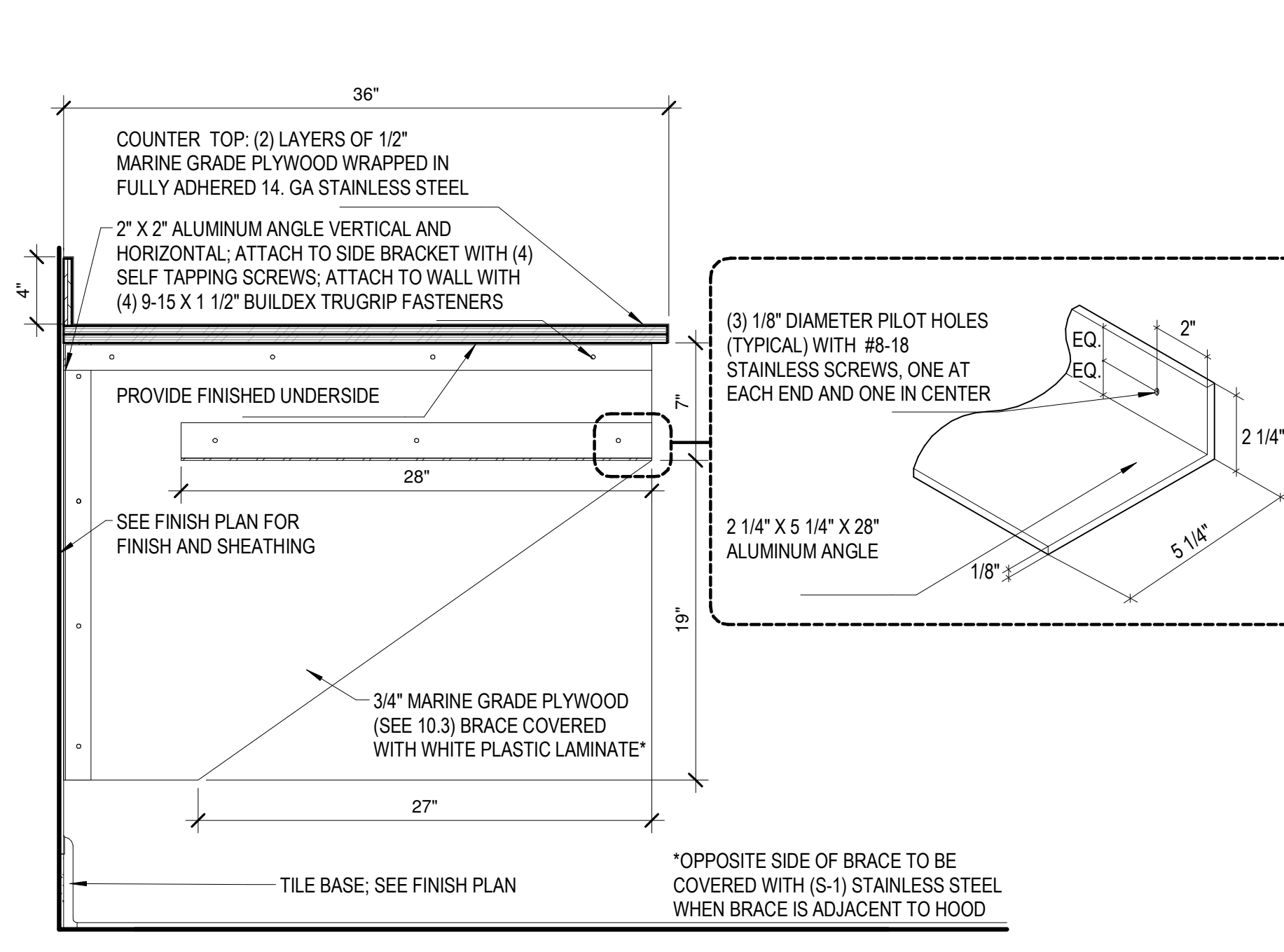
6 SECTION: STANDARD KITCHEN
1 1/2" = 1'-0"



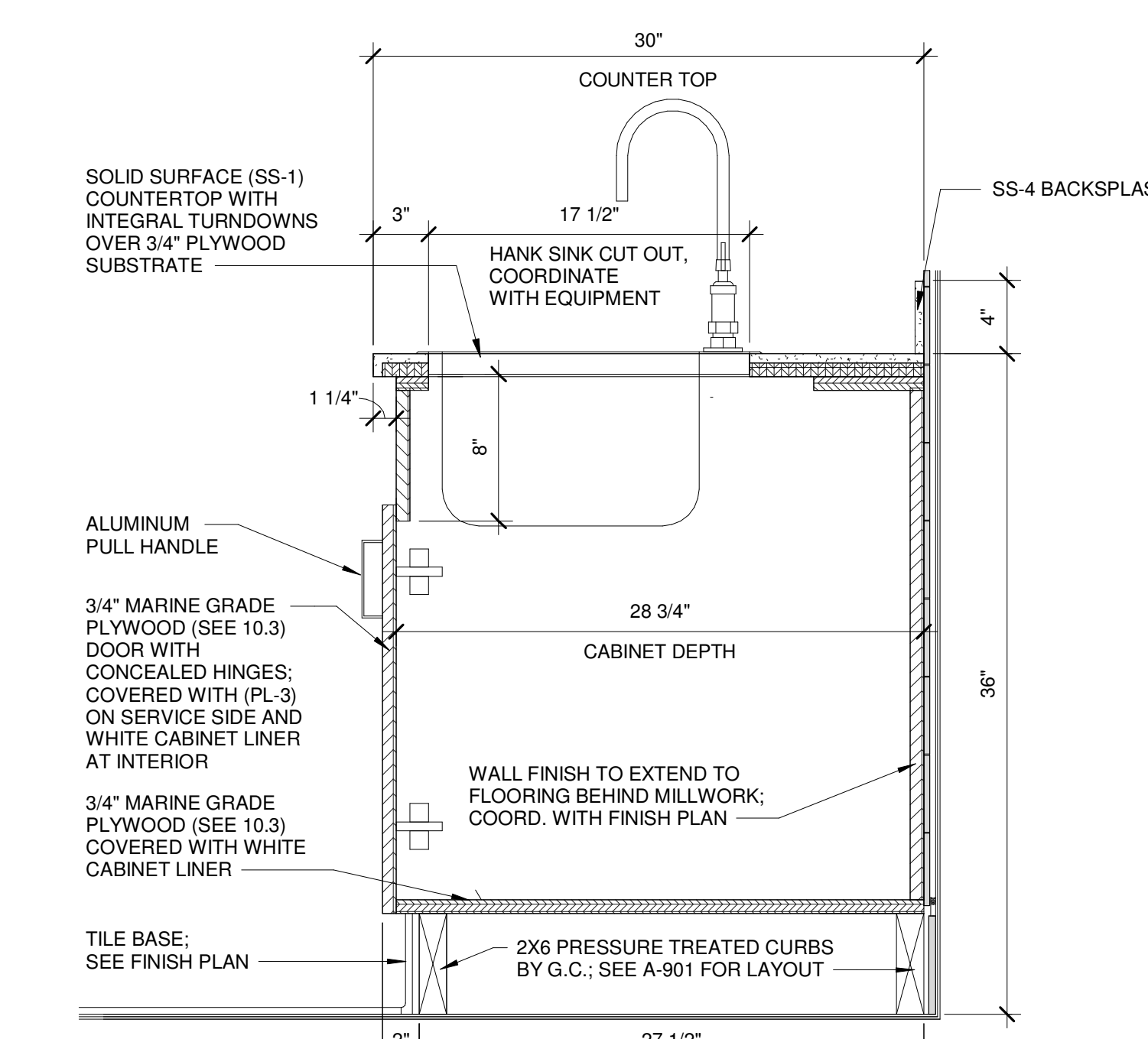
7 SECTION: BACK COUNTER SECTION CUP DISPENSER
1 1/2" = 1'-0"



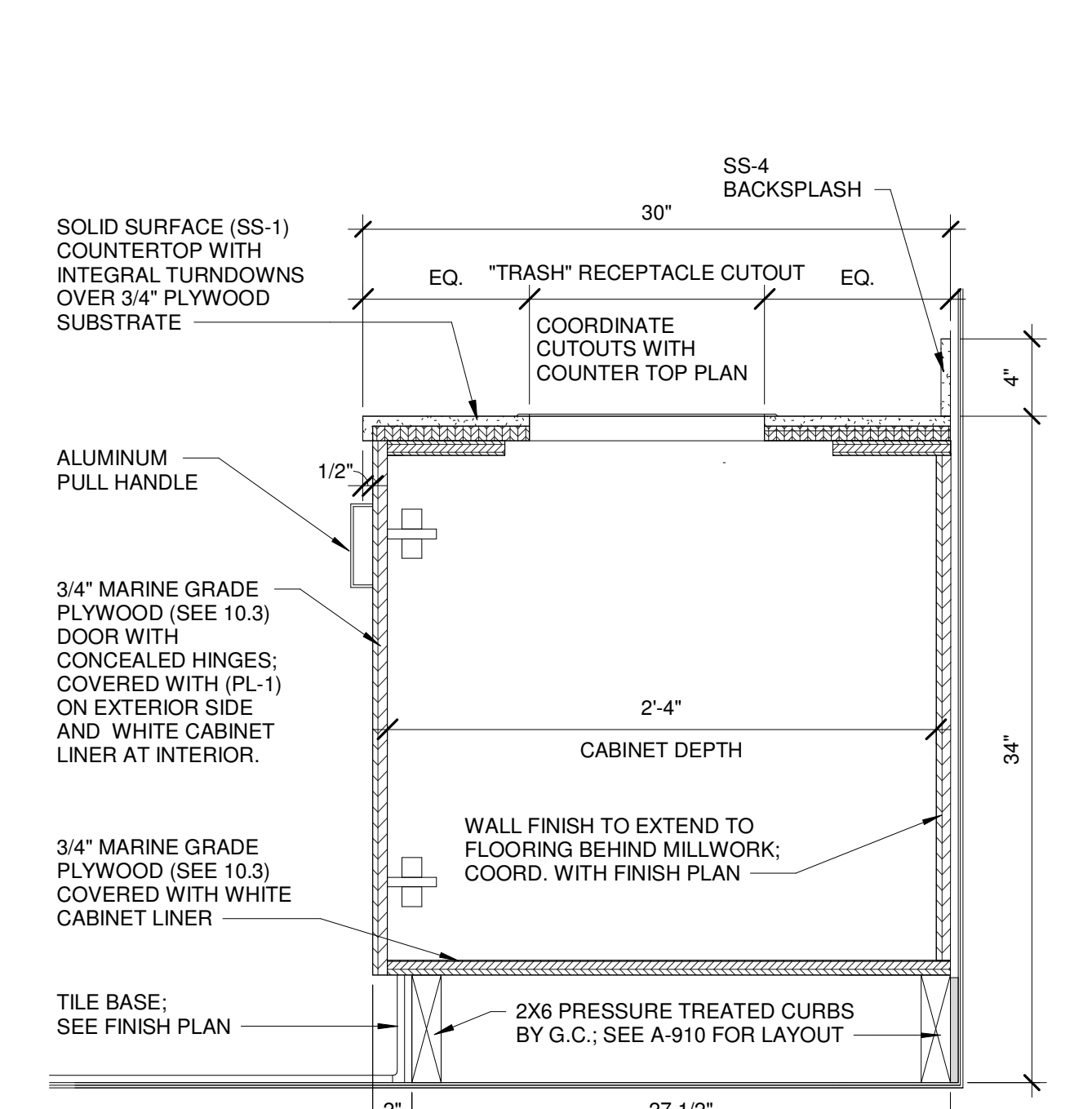
8 SECTION: BACK COUNTER SECTION CUP DISPENSER
1 1/2" = 1'-0"



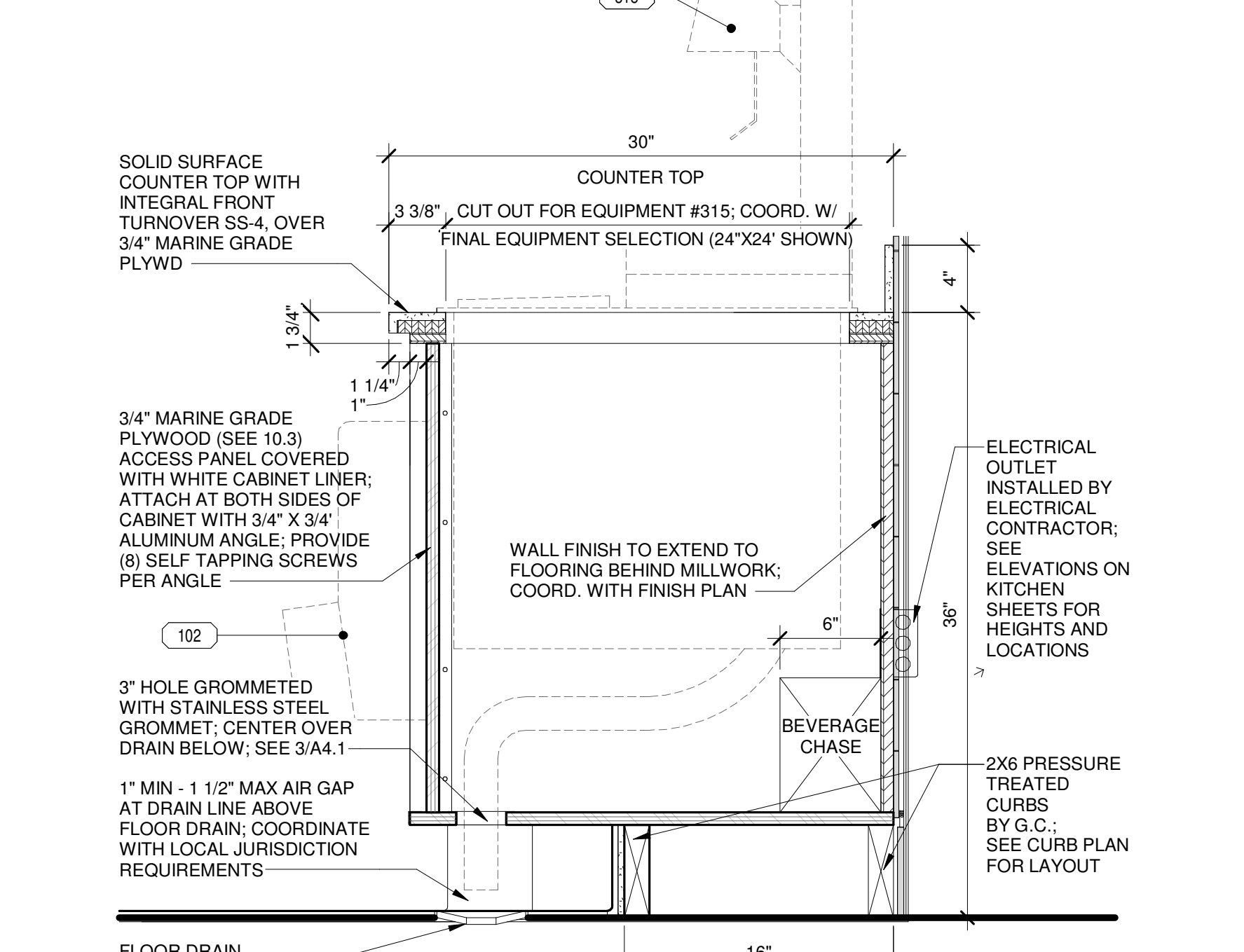
9 SECTION - BREAD RACK
1 1/2" = 1'-0"



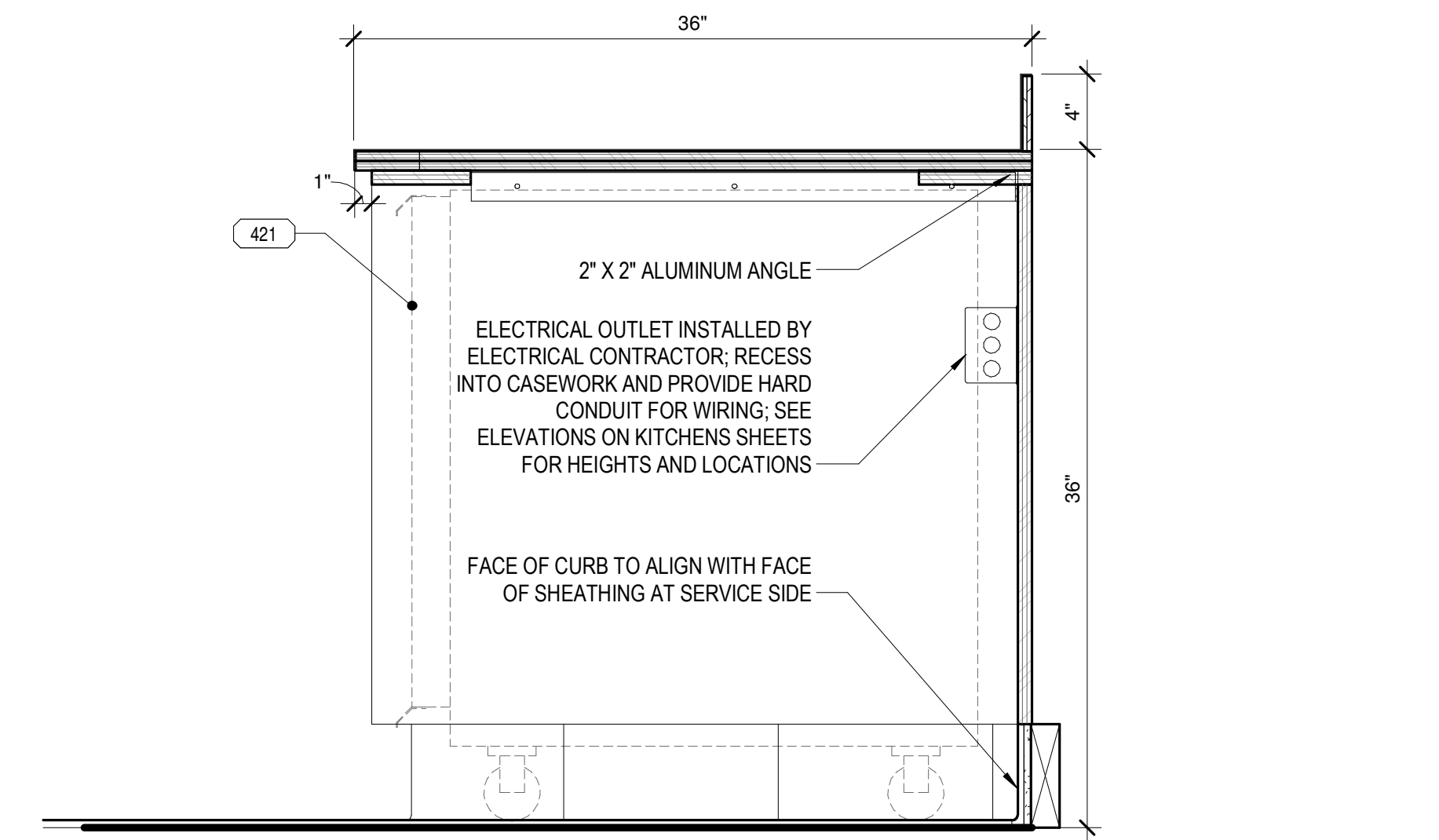
10 SECTION: BACK COUNTER HANDSINK
1 1/2" = 1'-0"



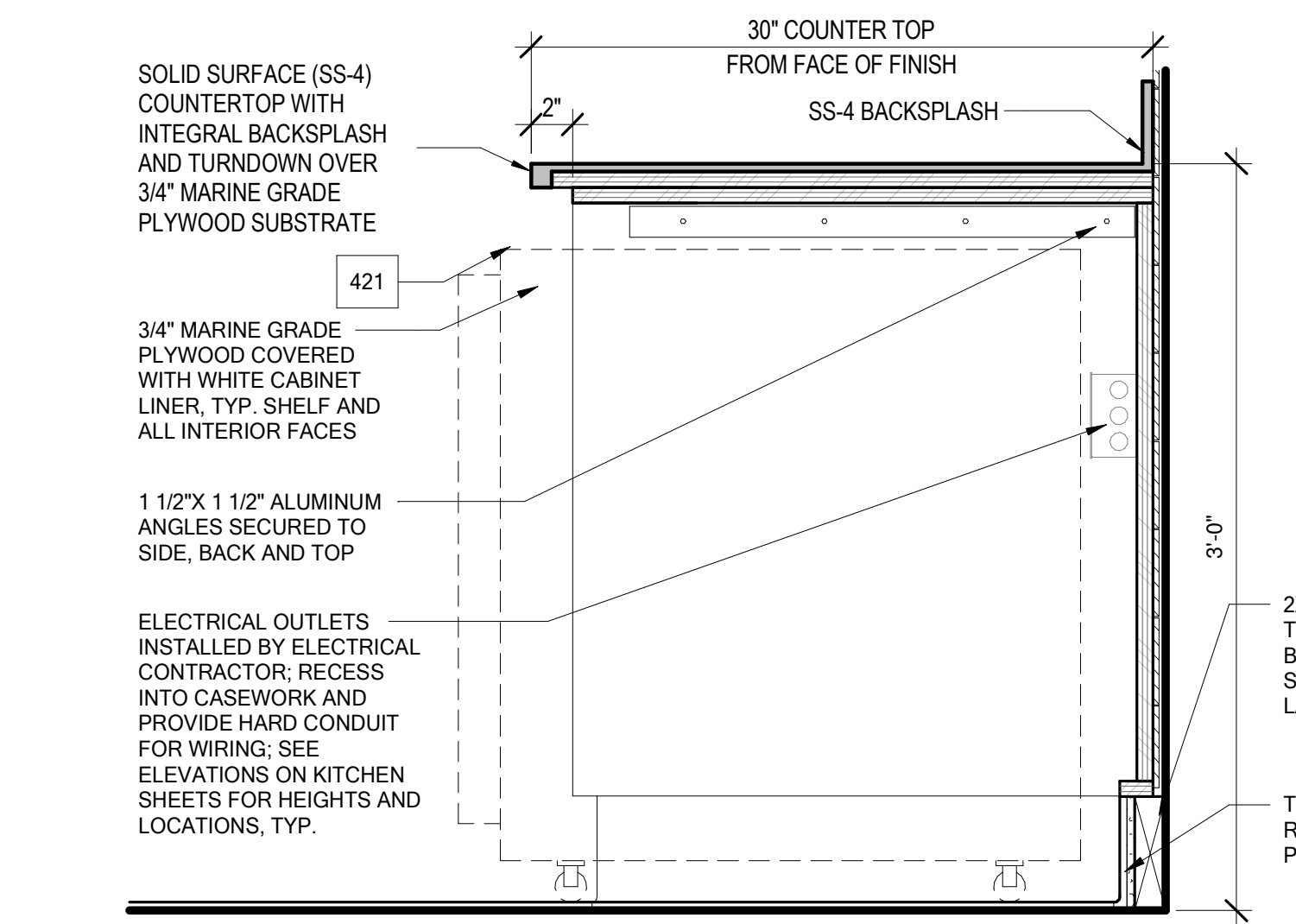
11 SECTION: RECYCLE & TRASH DISPOSAL
1 1/2" = 1'-0"



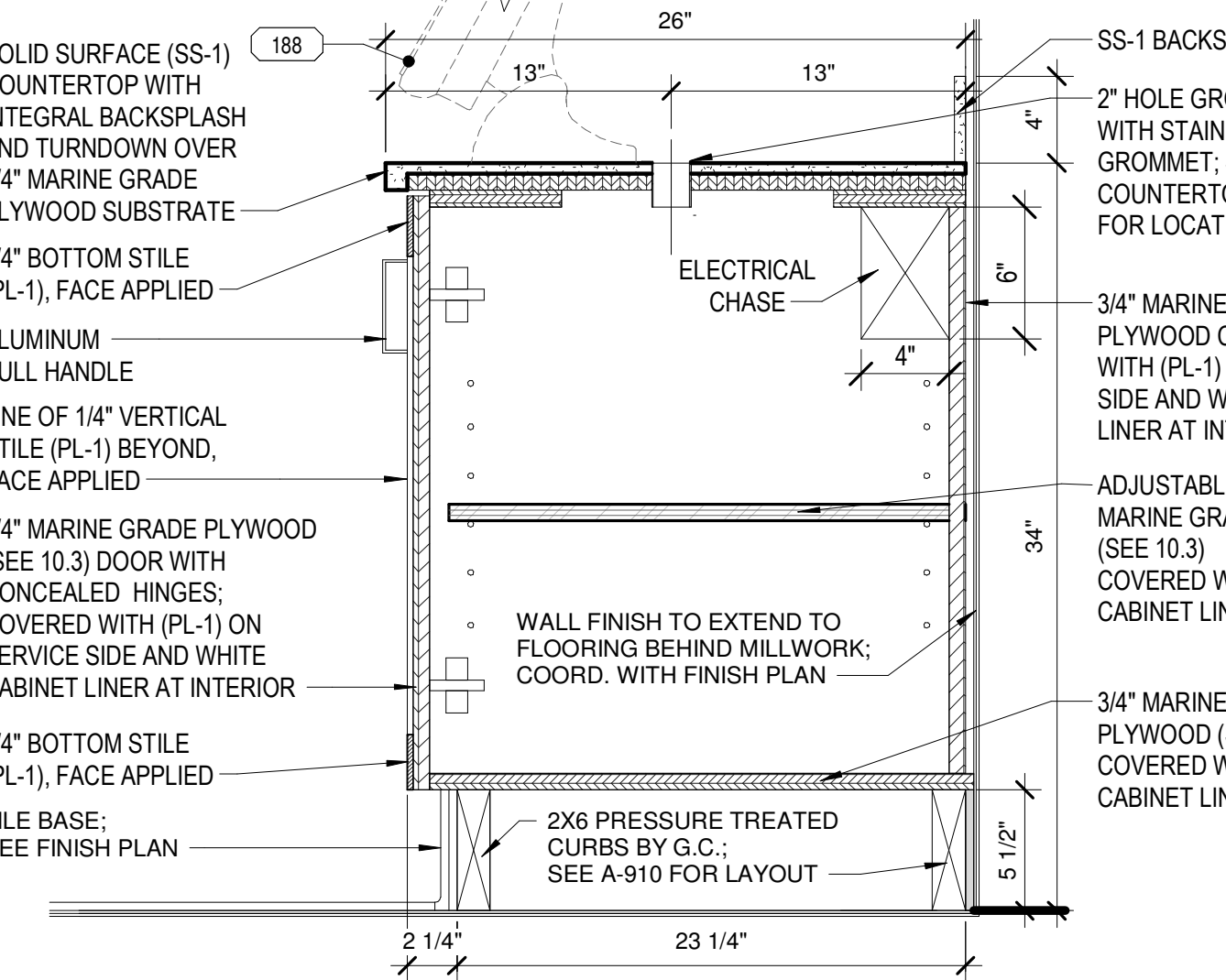
12 SECTION: BACK COUNTER DRINK TOWER
1 1/2" = 1'-0"



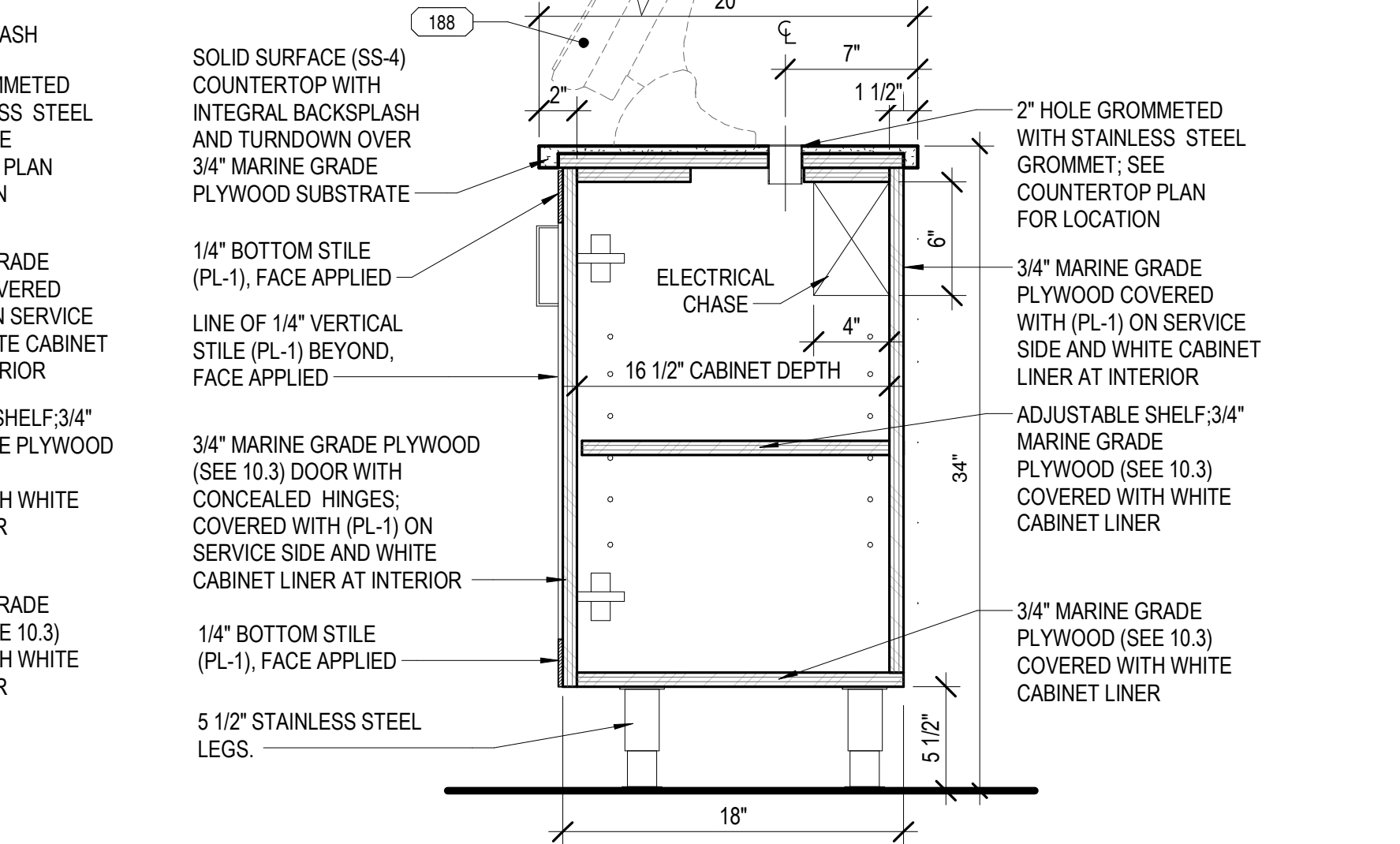
13 SECTION: KITCHEN UNDERCOUNTER EQUIP
1 1/2" = 1'-0"



14 SECTION: BACK COUNTER EQUIP
1 1/2" = 1'-0"



15 SECTION: ORDERING KIOSK MILLWORK CABINET
1 1/2" = 1'-0"



16 SECTION: ORDERING KIOSK MILLWORK (MOVABLE)
1 1/2" = 1'-0"



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1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV / LCV
RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 6/7/2023 6:31:15 PM
DRAWN BY Designer

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SHEET MILLWORK SECTIONS

SHEET NUMBER

A-904

CONSTRUCTION DOCUMENTS

4	
PLUMBING NOTES	
1.	PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND TO MAKE ALL EXTERNAL, INTERNAL INTERCONNECTION, AND FINAL CONNECTIONS TO EQUIPMENT AND PROVIDE ALL PIPING, FITTINGS, PARTS, ETC. NECESSARY TO MAKE EQUIPMENT FUNCTIONAL UNLESS SPECIFICALLY STATED OTHERWISE.
2.	PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3.	ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
4.	ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN IN ELEVATIONS ARE FOR FOODSERVICE EQUIPMENT ITEMS ONLY. (SEE PLUMBING SHEETS FOR ADDITIONAL REQUIREMENTS AND INFORMATION)
5.	ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE).
6.	ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR UNLESS LOCAL CODES DICTATE OTHERWISE.
7.	PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS.
8.	PLUMBING CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT, OR OTHER EQUIPMENT CAPABLE OF PRODUCING CONDENSATION. PLUMBING CONTRACTOR IS NOT TO HARD-PIPE THE CENTERLINE TABLE. (IF APPLICABLE)
9.	ALL COMPARTMENT SINKS SHOULD HAVE INDIRECT WASTE UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
11.	IF INLET PRESSURE ON HOT WATER LINES IS IN EXCESS OF 25 LBS. PSI, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATING VALVE.
12.	PLUMBING CONTRACTOR TO PROVIDE PIPES AND FITTINGS FOR ALL EXPOSED CONNECTING RUNS AS REQUIRED.
13.	PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14.	PLUMBING CONTRACTOR TO VERIFY PLUMBING RELATED EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ON SCHEDULE.
15.	PLUMBING CONTRACTOR TO USE EXISTING SERVICES TO CONNECT NEW AND REUSED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
16.	PLUMBING CONTRACTOR TO INSTALL KITCHEN EQUIPMENT CONTRACTOR SUPPLIED ITEMS SUCH AS FAUCETS & LOOSE COMPONENTS RELATED TO THE PLUMBING FIXTURES.
17.	PLUMBING CONTRACTOR TO INSTALL, MOUNT, AND PLUMB ALL KITCHEN HAND SINKS AND COMPARTMENT SINKS.
18.	PLUMBING CONTRACTOR TO PROVIDE STANDOFFS FOR SINKS IF REQUIRED.
19.	PLUMBING ENGINEER TO DETERMINE THE NEED FOR A DOMESTIC WATER BOOSTER PUMP TO BE LOCATED PER THE KITCHEN EQUIPMENT PLANS AS REQUIRED.
20.	GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS.
21.	PLUMBING CONTRACTOR TO PROVIDE CONDENSER WATER PIPING CONNECTIONS TO WALK-IN COOLER / FREEZER AND ICE MACHINES. (IF APPLICABLE)
22.	WATER FILTRATION SYSTEM TO BE INSTALLED BY CHICK-FIL-A SPECIFIED VENDOR.

ELECTRICAL NOTES	
1.	ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, PULL BOXES, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2.	ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT AND RELATED ITEMS SHOWN ON FOODSERVICE EQUIPMENT PLAN ONLY (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS). ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS FOR ADDITIONAL CONVENIENCE OUTLETS AND ITEMS NOT IN CONTRACT.
3.	ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE)
4.	ELECTRICAL CONTRACTOR TO RUN IN CONDUIT ALL LINES OR LOW VOLTAGE CONTROL WIRING FROM WALK-IN FREEZER EVAPORATOR AS DETAILED ON FOODSERVICE REFRIGERATION SYSTEM DETAILS DRAWINGS.
5.	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED.
6.	ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY MANUFACTURER AND SHORTEN ANY CORDS AS REQUIRED.
7.	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24" FOR 4" E CONDUIT OR A MINIMUM BENDING RADIUS OF 36" FOR 6" E CONDUIT OR LARGER. LONG SWEEP CONDUIT RECOMMENDED. (NO FACTORY "L" S' PERMITTED)
8.	ELECTRICAL CONTRACTOR TO CONNECT ALL INDIVIDUAL COMPRESSORS AND/OR CONDENSERS. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE DISCONNECT SWITCHES AND MAGNETIC STARTERS AS REQUESTED (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCH).
9.	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL. WALK-IN COOLERS / FREEZERS CANNOT BE PROVIDED PRE-WIRED.
10.	ELECTRICAL CONTRACTOR TO WIRE LOOSE WALK-IN LIGHT FIXTURES AS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR. WALK-IN CONTRACTOR TO SUPPLY LAMPS FOR ALL WALK-IN COOLERS / FREEZERS.
11.	ELECTRICAL CONTRACTOR SHALL USE CONDUIT SEALS ON ALL PENETRATIONS THRU WALK-IN PANELS.
12.	ELECTRICAL CONTRACTOR TO SEAL AROUND CONDUIT PENETRATIONS IN WALK-IN COOLER / FREEZER TO AVOID CONDENSATION INSIDE LIGHT FIXTURES.
13.	ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14.	ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
15.	ELECTRICAL CONTRACTOR TO WIRE THE CENTERLINE TABLE (IF APPLICABLE) WITH FIVE WIRES. (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)
16.	ELECTRICAL CONTRACTOR TO WIRE POS REGISTERS ON SEPARATE CIRCUITS. (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)

HEALTH DEPARTMENT NOTES	
1.	ALL EQUIPMENT IS TO BE CONSTRUCTED AND INSTALLED PER THE REQUIREMENTS OF THE COUNTY'S BOARD OF HEALTH (DIVISION OF ENVIRONMENTAL HEALTH). ACCEPTANCE OF THESE PLANS BY THE COUNTY'S BOARD OF HEALTH IS SUBJECT TO FINAL INSPECTION BY SAID AGENCY. TRIMARK ASSUMES NO RESPONSIBILITY FOR ANY ADDITIONAL EQUIPMENT, TRIM, OR LABOR REQUIRED TO MEET ANY UNFORESEEN REQUIREMENTS THAT MAY ARISE FROM THE INSPECTION.
2.	EMPLOYEE LOCKERS TO BE INSTALLED WITH METAL LEGS OR WALL MOUNTED AT A MINIMUM OF 6" OFF FINISHED FLOOR. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR WALL MOUNTED LOCKERS PER ARCHITECTURAL SHEETS IF REQUIRED.
3.	ALL WALLS AND CEILING IN FOOD HANDLING AREAS TO BE SMOOTH, NON-ABSORBENT, LIGHT IN COLOR, AND EASILY CLEANABLE AS DEFINED BY THE LOCAL HEALTH DEPARTMENT.

3	
BUILDING WORK NOTES	
1.	ALL DIMENSIONS INDICATED ARE FROM FINISHED SURFACES UNLESS SPECIFICALLY STATED OTHERWISE.
2.	GENERAL CONTRACTOR TO VERIFY WITH KITCHEN EQUIPMENT CONTRACTOR DELIVERY AND ACCESSIBILITY OF FOODSERVICE EQUIPMENT AND FIXTURES TO THE BUILDING.
3.	GENERAL CONTRACTOR TO LAY OUT, PROVIDE, AND INSTALL ALL BACKING FOR WALL MOUNTED SHELVING AND OTHER WALL MOUNTED EQUIPMENT AS SPECIFIED IN PLANS.
4.	GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS AND VANITIES.
5.	ANY ATTACHMENT TO BUILDING STRUCTURE FOR LOAD BEARING WEIGHT TO BE PROVIDED BY OTHERS.
6.	GENERAL CONTRACTOR TO PROVIDE UNISTRUT FOR SUSPENDED SHELVING AND SUSPENDED STAINLESS STEEL SHROUDS.
7.	CONDENSING UNIT RACK TO BE PROVIDED AND INSTALLED BY OTHERS IF REQUIRED.
8.	GENERAL CONTRACTOR TO HOIST ALL KITCHEN RELATED EQUIPMENT TO THE ROOF / MEZZANINE AS NEEDED.

GENERAL NOTES	
1.	ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION OR OVERALL FABRICATION WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE KITCHEN EQUIPMENT CONTRACTOR IMMEDIATELY BY THE GENERAL CONTRACTOR.
2.	GENERAL CONTRACTOR TO PROVIDE ALL PENETRATIONS BETWEEN FLOORS AND / OR CEILINGS FOR GAS, WATER, ELECTRICAL, OR REFRIGERATION CONDUIT SERVICES AS REQUIRED ON PLANS.
3.	GENERAL CONTRACTOR TO PROVIDE AND INSTALL ROOF JACKS OR PITCH POCKET FOR REFRIGERATION LINE PENETRATIONS THRU ROOF. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR).
4.	GENERAL CONTRACTOR TO PROVIDE DUCT WRAP OR SHAFT(S) AND OPENING(S) THRU WALLS, CEILING, AND ROOF FOR EXHAUST AND MAKE-UP AIR DUCTS WITH CURBS ON ROOF FLASHED AND SEALED TO MEET ALL CODES.
5.	GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WALL BACKING IN WALLS FOR MOUNTING OF WALL SHELVES, POT RACKS, HAND SINKS, VANITIES, ETC. AS SHOWN ON ELEVATIONS AND DETAILS.
6.	ALL HORIZONTAL DIMENSIONS ARE FROM GRID LINE, FINISHED FACE OF WALL TO FINISHED FACE OF WALL, OR CENTERLINE OF COLUMN OR CASED OPENING.
7.	ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED TOP OF WALL OR WALL OPENING.
8.	ALL WALLS IN CONTACT WITH OR WITHIN 18" OF COOKING EQUIPMENT SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AS PER LOCAL CODES.
9.	WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.
10.	IT SHALL BECOME THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND / OR GENERAL CONTRACTOR TO ENSURE THAT THE KITCHEN EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS PRIOR TO OR DURING CONSTRUCTION, WHEREAS ADDENDUMS AND / OR CHANGES AFFECT ANY AREAS PERTINENT TO THE FOOD AND BEVERAGE PORTION.
11.	GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PENETRATION (HOLES / CHASES) FOR LINE RUNS THRU (WALLS / FLOORS / CEILINGS / ROOF) AS REQUIRED FOR ALL FOODSERVICE EQUIPMENT AND TO SEAL ALL PENETRATIONS WITH PROPER SEALANT.
12.	GENERAL CONTRACTOR TO PROVIDE ALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.
13.	GENERAL CONTRACTOR TO PROVIDE BUILDING ACCESS FOR OVERSIZED KITCHEN EQUIPMENT TO BE COORDINATED WITH KITCHEN EQUIPMENT CONTRACTOR.
14.	GENERAL CONTRACTOR TO COORDINATE EQUIPMENT STARTUP AFTER KITCHEN EQUIPMENT CONTRACTOR INSTALLS EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE STARTUP CONTACTS TO GENERAL CONTRACTOR AFTER INSTALLATION.
15.	ALL RECESSED MOP SINKS TO BE CONSTRUCTED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAINLESS STEEL PANELS UP FULL HEIGHT OF WALL AND GRATE FOR RECESSED MOP SINK. BASIN MOP SINK AND STAINLESS STEEL PANELS TO BE PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE NOTED.

MISCELLANEOUS NOTES	
1.	WHEN SOUND/MUSIC SYSTEM(S) ARE INSTALLED, ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS AND MAKE ALL NECESSARY ELECTRICAL HOOK-UPS.
2.	MILLWORK VENDOR TO PROVIDE NETWORK CABINET IF REQUIRED. GENERAL CONTRACTOR TO INSTALL NETWORK CABINET PRIOR TO OFFICE MILLWORK INSTALLATION.

2	
INSTALLATION NOTES	
1.	GENERAL CONTRACTOR MUST INSTALL BLOCKING AS SPECIFIED ON KITCHEN AND ARCHITECTURAL SHEETS TO ENSURE PROPER BLOCKING IS IN PLACE FOR EQUIPMENT INSTALLATION.
2.	SITE READINESS MUST BE COMPLETE IN PREPARATION FOR INSTALLATION BASED ON THE FOLLOWING CRITERIA: A. COMPLETED PARKING LOT AND SIDEWALKS SERVING THE SITE B. CLEAR ACCESS FROM THE STREET OR PARKING LOT TO EACH AREA WHERE EQUIPMENT WILL BE INSTALLED IS NECESSARY C. A FULLY ENCLOSED BUILDING ENVELOPE, CREATING A WATER-TIGHT ENVIRONMENT D. BROOM CLEAN CONDITIONS WITH DIRT, DUST, TRASH, AND CONSTRUCTION MATERIALS MITIGATED E. NO TRADES WORKING OVERHEAD ABOVE THE EQUIPMENT F. TRADE WORK SHOULD BE COMPLETE IN THE VICINITY OF THE EQUIPMENT TO MINIMIZE REPEATED SHIFTING OR MOVING OF KITCHEN EQUIPMENT G. PROHIBIT USE OF THE KITCHEN EQUIPMENT BY ANY TRADE AS A WORK SURFACE, STANDING SURFACE, OR PLACE TO STORE TOOLS AND MATERIALS H. PROVIDE AT A MINIMUM TEMPORARY SPACE LIGHTING SUFFICIENT TO ALLOW SAFE WORKING CONDITIONS FOR EQUIPMENT ASSEMBLY AND INSTALLATION IF APPLICABLE, ALL SERVICE COUNTER CURBS AND FLOOR PENETRATIONS NEED TO BE COMPLETE J. ALL FLOOR FINISHES AND BASE MATERIAL, INCLUDING GROUT IF APPLICABLE, MUST BE COMPLETE K. ALL WALL FINISHES IN THE VICINITY OF THE EQUIPMENT MUST BE COMPLETE L. ALL CEILING FINISHES, CEILING GRID, LIGHT FIXTURES, AND CEILING TILE NEED TO BE COMPLETE IN THE AREAS ABOVE THE EQUIPMENT. NOTE: IF BACK OF HOUSE SHELVING THAT IS SUSPENDED FROM OVERHEAD STRUCTURE IS USED, ONLY THE GRID IS REQUIRED - LEAVE THE CEILING TILES OUT UNTIL THE SHELVING INSTALLATION IS COMPLETE M. ALL CEILING MOUNTED LIGHTING SHOULD BE IN PLACE AND COMPLETE N. ALL OVERHEAD UTILITIES ABOVE THE EQUIPMENT INCLUDING FIRE SPRINKLERS, CONDUIT RUNS, SANITARY PIPING, DOMESTIC WATER LINES, CONDENSER WATER SUPPLY LINES, CONDENSER WATER RETURN LINES, HVAC DUCT, AND SIMILAR INFRASTRUCTURE SHOULD BE FINISHED O. ALL HOOD SYSTEMS MUST BE IN PLACE P. ALL EQUIPMENT UTILITY ROUGH-INS MUST BE COMPLETE AND READY FOR CONNECTION


REFRIGERATION NOTES	
1.	REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES, WHICH EXTEND DOWN THRU WALL(S) BEFORE WALL(S) ARE CLOSED UP WHEN CONDUIT IS NOT PROVIDED.
2.	REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION SUCTION LINES.
3.	ALL PENETRATIONS THROUGH TO ROOF TO BE DONE BY GENERAL CONTRACTOR.
4.	REFRIGERATION CONTRACTOR TO SEAL BOTH ENDS OF CONDUIT WITH FOMOFIL AFTER ALL LINES HAVE BEEN RUN.
5.	GENERAL CONTRACTOR TO ALLOW 3'-0" OF CLEAR SPACE AROUND ROOF PAD FOR MAINTENANCE.
6.	GENERAL CONTRACTOR TO VERIFY REFRIGERATION LINE RUN THRU TO ROOF OR MULTI-STORY BUILDING PRIOR TO CONSTRUCTION WITH REFRIGERATION CONTRACTOR FOR ACCESSIBILITY.
7.	GENERAL CONTRACTOR TO VERIFY ACCESS OF CRANE WITH REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION (IF REQUIRED).
8.	REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL HEAT TAPE ON INDIRECT DRAIN LINES FOR WALK-IN FREEZERS & FREEZER BASES.
9.	GENERAL CONTRACTOR TO PROVIDE CURBS FOR CONDENSING UNITS ON ROOF UNLESS RACKS ARE SPECIFIED. GENERAL CONTRACTOR TO USE PROPOSER SEALANT AND FLASHING ON CURBS.
10.	GENERAL CONTRACTOR TO PLACE ICE MACHINE AND WALK-IN FREEZER / COOLER CONDENSING UNITS PER MECHANICAL SHEETS.
11.	ICE MACHINE VENDOR AND WALK-IN CONTRACTOR RESPONSIBLE FOR PROVIDING, RUNNING, AND CONNECTING REFRIGERANT PIPING.

MECHANICAL NOTES	
1.	MECHANICAL ENGINEER TO PROVIDE MAKE-UP AIR WHICH SHALL BE DELIVERED TO THE SUPPLY AIR PLENUM OF THE EXHAUST HOOD OR IN THE PROXIMITY OF THE EXHAUST HOOD IN SUCH A MANNER AS TO NOT CREATE UNDUE TURBULENCE IN THE WORKING AREAS.
2.	MECHANICAL CONTRACTOR TO VERIFY THE LOCATION(S) OF THE EXHAUST AND MAKE-UP AIR DUCT(S) AT JOB SITE WITH KITCHEN EQUIPMENT CONTRACTOR.
3.	HVAC RETURNS SHOULD BE A MINIMUM OF 8'0" AWAY FROM BREADING AREA.
4.	AVOID HVAC DIFFUSERS ABOVE CENTERLINE TABLE.


1	
KITCHEN SHEET INDEX	
NO.	SHEET NAME
K-001	GENERAL NOTES
K-200	OVERALL PLAN
K-201	KITCHEN EQUIPMENT PLAN
K-202	KITCHEN EQUIPMENT PLAN
K-601	ELECTRICAL ROUGH-IN ELEVATION
K-602	ELECTRICAL ROUGH-IN ELEVATION
K-611	PLUMBING ROUGH-IN ELEVATION
K-801	EQUIPMENT SCHEDULE
K-802	EQUIPMENT SCHEDULE
K-901	KITCHEN DETAILS
K-902	KITCHEN DETAILS
K-903	KITCHEN DETAILS
K-904	KITCHEN DETAILS

ABBREVIATIONS			
ADJ	ADJUSTABLE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LH	LEFT HINGE
ALT	ALTERNATE	MAX	MAXIMUM
AMP	AMPERAGE	MC	MECHANICAL CONTRACTOR
AOR	ARCHITECT OF RECORD	MECH	MECHANICAL
APPROX	APPROXIMATE	MEZZ	MEZZANINE
AVG	AVERAGE	MIN	MINIMUM
BOH	BACK OF HOUSE	ML	MIDLINE
BLDG	BUILDING	MTD	MOUNTED
BTU	BRITISH THERMAL UNIT	MWK	MILLWORK VENDOR
CAD	COMPUTER AIDED DESIGN	N/A	NOT APPLICABLE
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CFA	CHICK-FIL-A	NO	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CO	CASED OPENING	OWN	OWNER
CU FT	CUBIC FEET	P	PLUG
CW	COLD WATER	PC	PLUMBING CONTRACTOR
D	DUCT SMOKE ANNUNCIATOR	PH	PHASE
DBL	DOUBLE	PLYWD	PLYWOOD
DIA	DIAMETER	PRI	PLUMBING ROUGH-IN
DIM	DIMENSION	QTY	QUANTITY
DL	DUAL LINE	R	RECEPTACLE
DW	DIRECT WASTE	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	REF	REFERENCE
EACH	EACH	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
EQ	EQUIPMENT	RH	RIGHT HINGE
ERI	ELECTRICAL ROUGH-IN	RI	ROUGH-IN
EXT	EXTERIOR	RM	ROOM
FAB	FABRICATE	RSUB	REFRIGERATION SUBCONTRACTOR
FLEX	FLEXIBLE	RVT	REVIT
FOH	FRONT OF HOUSE	SML	SMALLWARES VENDOR
FSD	FOODSERVICE DIRECTOR	SOW	SCOPE OF WORK
FSP	FOODSERVICE PROVIDER	SPEC	SPECIFICATION
FURN	FURNITURE VENDOR	SQ FT	SQUARE FEET
FW	FILTERED WATER	SS	SOLID SURFACE
GC	GENERAL CONTRACTOR	S/S	STAINLESS STEEL
GEN	GENERAL	STD	STANDARD
GYP	GYPSONUM BOARD	T	THERMOSTAT
HC	HUMIDITY CONTROLLER	TL	TWIST LOCK
HGT	HEIGHT	TW	TEPID WATER
HORIZ	HORIZONTAL	TYP	TYPICAL
HP	HORSEPOWER	V	VOLTS
HW	HOT WATER	VEN	VENDOR
IN	INCH	VERT	VERTICAL
INCL	INCLUDE	WARE	WAREHOUSE
INT	INTERIOR	WH	WATER HEATER
IT	CHICK-FIL-A IT (DTT)	WIC	WALK-IN COOLER
IW	INDIRECT WASTE	WIF	WALK-IN FREEZER
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KEC	KITCHEN EQUIPMENT CONTRACTOR		

SYMBOLS			
	ERI ELEVATION MARKER	-----	CLEARANCE
	PRI ELEVATION MARKER	-----	EXISTING
	ELEVATION HEIGHT MARKER	-----	NEW
		-----	FUTURE
		-----	OBSTRUCTED
		-----	SURFACE
		-----	ABOVE



Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998



Foodservice Equipment, Supplies and Design

CHICK-FIL-A
 UNIVERSITY OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

CONSTRUCTION DOCUMENTS

LCV#80307
 BUILDING TYPE / SIZE:
 RELEASE: v8.22.11

REVISION SCHEDULE

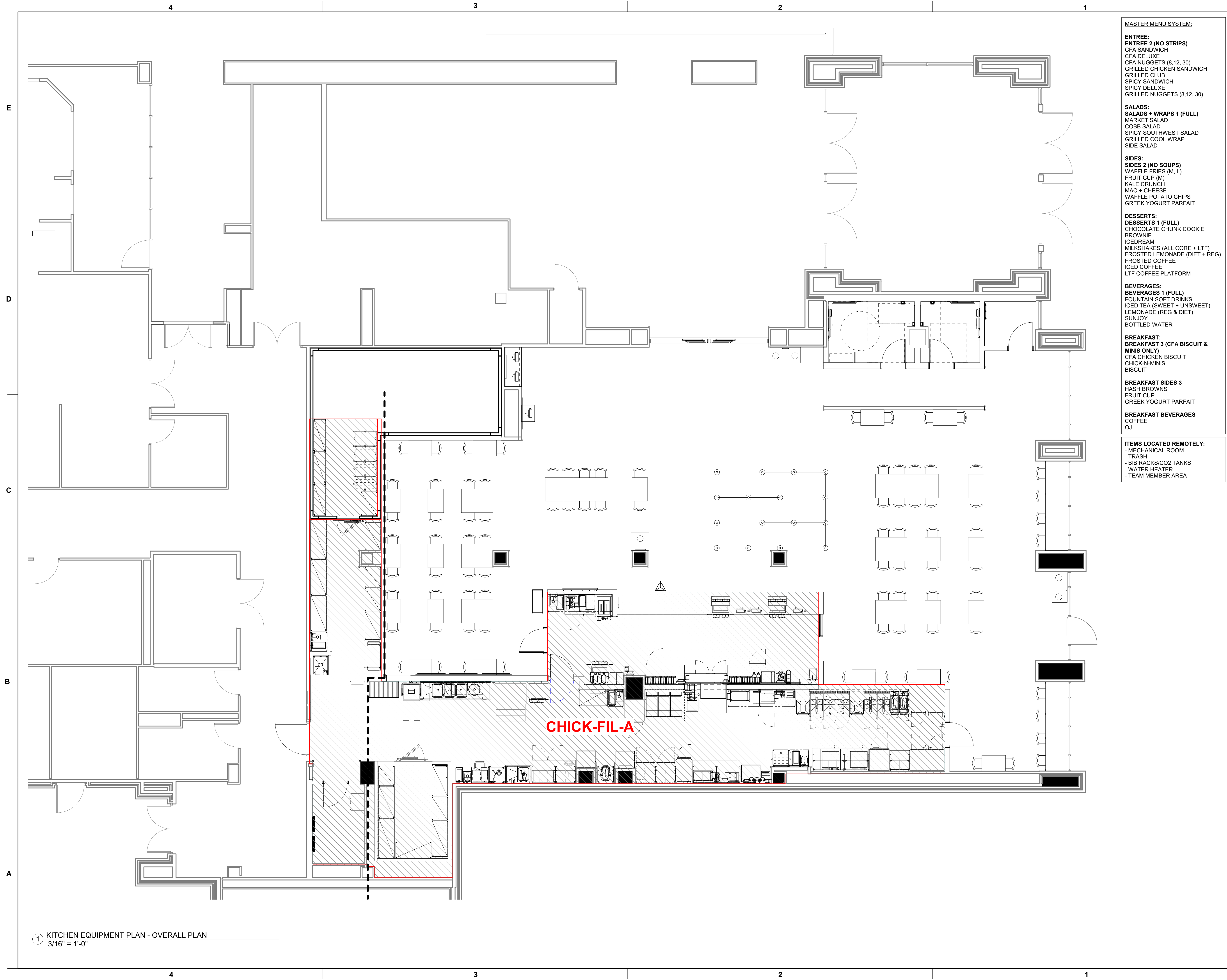
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
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 DATE 04/27/2023
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SHEET GENERAL NOTES

SHEET NUMBER **K-001**



- MASTER MENU SYSTEM:**
- ENTREE 2 (NO STRIPS)**
 CFA SANDWICH
 CFA DELUXE
 CFA NUGGETS (8, 12, 30)
 GRILLED CHICKEN SANDWICH
 GRILLED CLUB
 SPICY SANDWICH
 SPICY DELUXE
 GRILLED NUGGETS (8, 12, 30)
- SALADS:**
SALADS + WRAPS 1 (FULL)
 MARKET SALAD
 COBB SALAD
 SPICY SOUTHWEST SALAD
 GRILLED COOL WRAP
 SIDE SALAD
- SIDES:**
SIDES 2 (NO SOUPS)
 WAFFLE FRIES (M, L)
 FRUIT CUP (M)
 KALE CRUNCH
 MAC + CHEESE
 WAFFLE POTATO CHIPS
 GREEK YOGURT PARFAIT
- DESSERTS:**
DESSERTS 1 (FULL)
 CHOCOLATE CHUNK COOKIE
 BROWNIE
 ICEDREAM
 MILKSHAKES (ALL CORE + LTF)
 FROSTED LEMONADE (DIET + REG)
 FROSTED COFFEE
 ICED COFFEE
 LTF COFFEE PLATFORM
- BEVERAGES:**
BEVERAGES 1 (FULL)
 FOUNTAIN SOFT DRINKS
 ICED TEA (SWEET + UNSWEET)
 LEMONADE (REG & DIET)
 SUNJOY
 BOTTLED WATER
- BREAKFAST:**
BREAKFAST 3 (CFA BISCUIT & MINIS ONLY)
 CFA CHICKEN BISCUIT
 CHICK-N-MINIS
 BISCUIT
- BREAKFAST SIDES 3**
 HASH BROWNS
 FRUIT CUP
 GREEK YOGURT PARFAIT
- BREAKFAST BEVERAGES**
 COFFEE
 OJ
- ITEMS LOCATED REMOTELY:**
 - MECHANICAL ROOM
 - TRASH
 - BIB RACKS/CO2 TANKS
 - WATER HEATER
 - TEAM MEMBER AREA

① KITCHEN EQUIPMENT PLAN - OVERALL PLAN
 3/16" = 1'-0"



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CONSTRUCTION DOCUMENTS

LCV#80307
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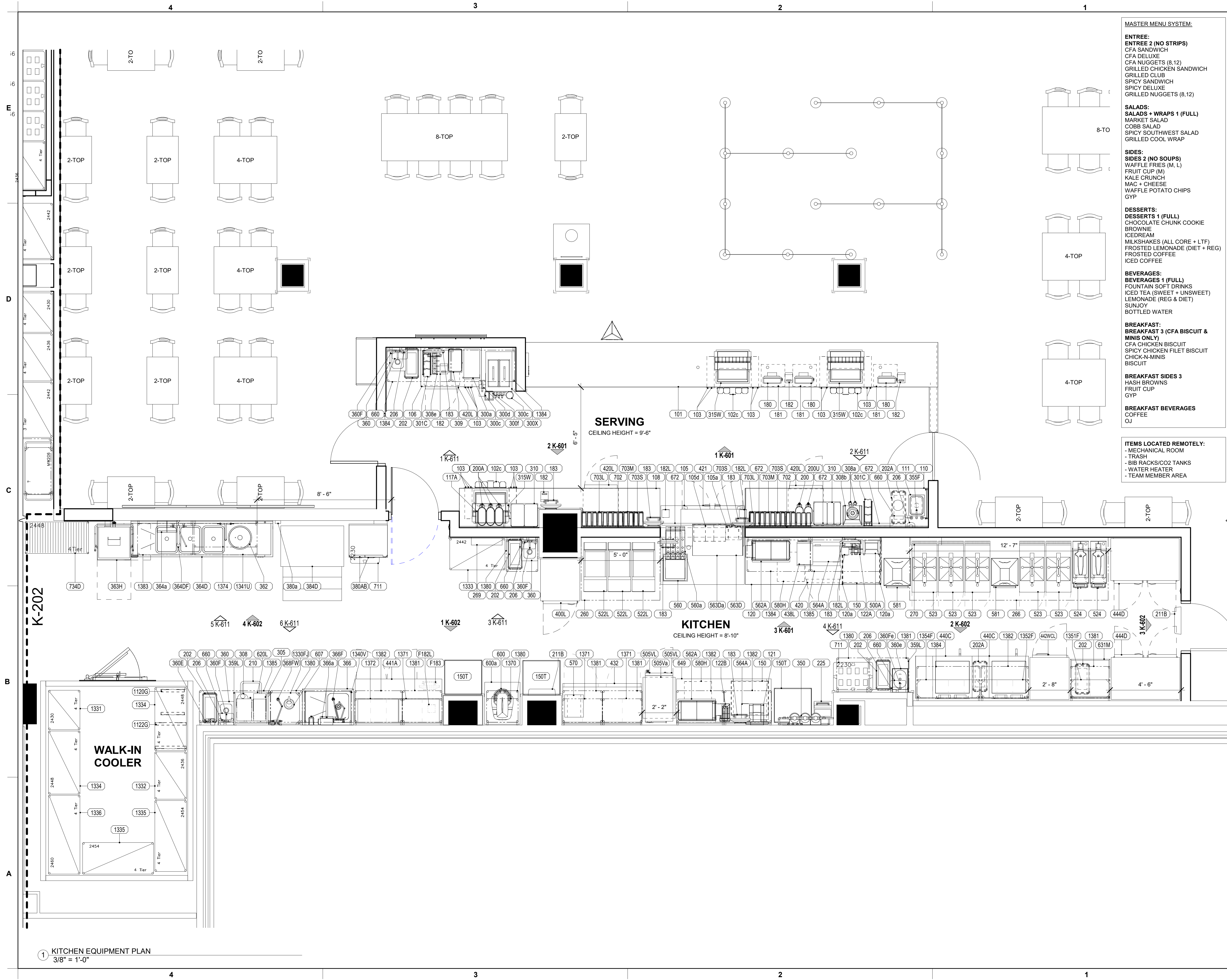
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SHEET OVERALL PLAN

SHEET NUMBER **K-200**



- MASTER MENU SYSTEM:**
- ENTREE:**
ENTREE 2 (NO STRIPS)
 CFA SANDWICH
 CFA DELUXE
 CFA NUGGETS (8,12)
 GRILLED CHICKEN SANDWICH
 GRILLED CLUB
 SPICY SANDWICH
 SPICY DELUXE
 GRILLED NUGGETS (8,12)
- SALADS:**
SALADS + WRAPS 1 (FULL)
 MARKET SALAD
 COBB SALAD
 SPICY SOUTHWEST SALAD
 GRILLED COOL WRAP
- SIDES:**
SIDES 2 (NO SOUPS)
 WAFFLE FRIES (M, L)
 FRUIT CUP (M)
 KALE CRUNCH
 MAC + CHEESE
 WAFFLE POTATO CHIPS
 GYP
- DESSERTS:**
DESSERTS 1 (FULL)
 CHOCOLATE CHUNK COOKIE
 BROWNIE
 ICEDREAM
 MILKSHAKES (ALL CORE + LTF)
 FROSTED LEMONADE (DIET + REG)
 FROSTED COFFEE
 ICED COFFEE
- BEVERAGES:**
BEVERAGES 1 (FULL)
 FOUNTAIN SOFT DRINKS
 ICED TEA (SWEET + UNSWEET)
 LEMONADE (REG & DIET)
 SUNJOY
 BOTTLED WATER
- BREAKFAST:**
BREAKFAST 3 (CFA BISCUIT & MINIS ONLY)
 CFA CHICKEN BISCUIT
 SPICY CHICKEN FILET BISCUIT
 CHICK-N-MINIS
 BISCUIT
- BREAKFAST SIDES 3**
 HASH BROWNS
 FRUIT CUP
 GYP
- BREAKFAST BEVERAGES**
 COFFEE
 OJ
- ITEMS LOCATED REMOTELY:**
 - MECHANICAL ROOM
 - TRASH
 - BIB RACKS/CO2 TANKS
 - WATER HEATER
 - TEAM MEMBER AREA



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CONSTRUCTION DOCUMENTS

LCV#80307
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 RELEASE: v8.22.11

REVISION SCHEDULE

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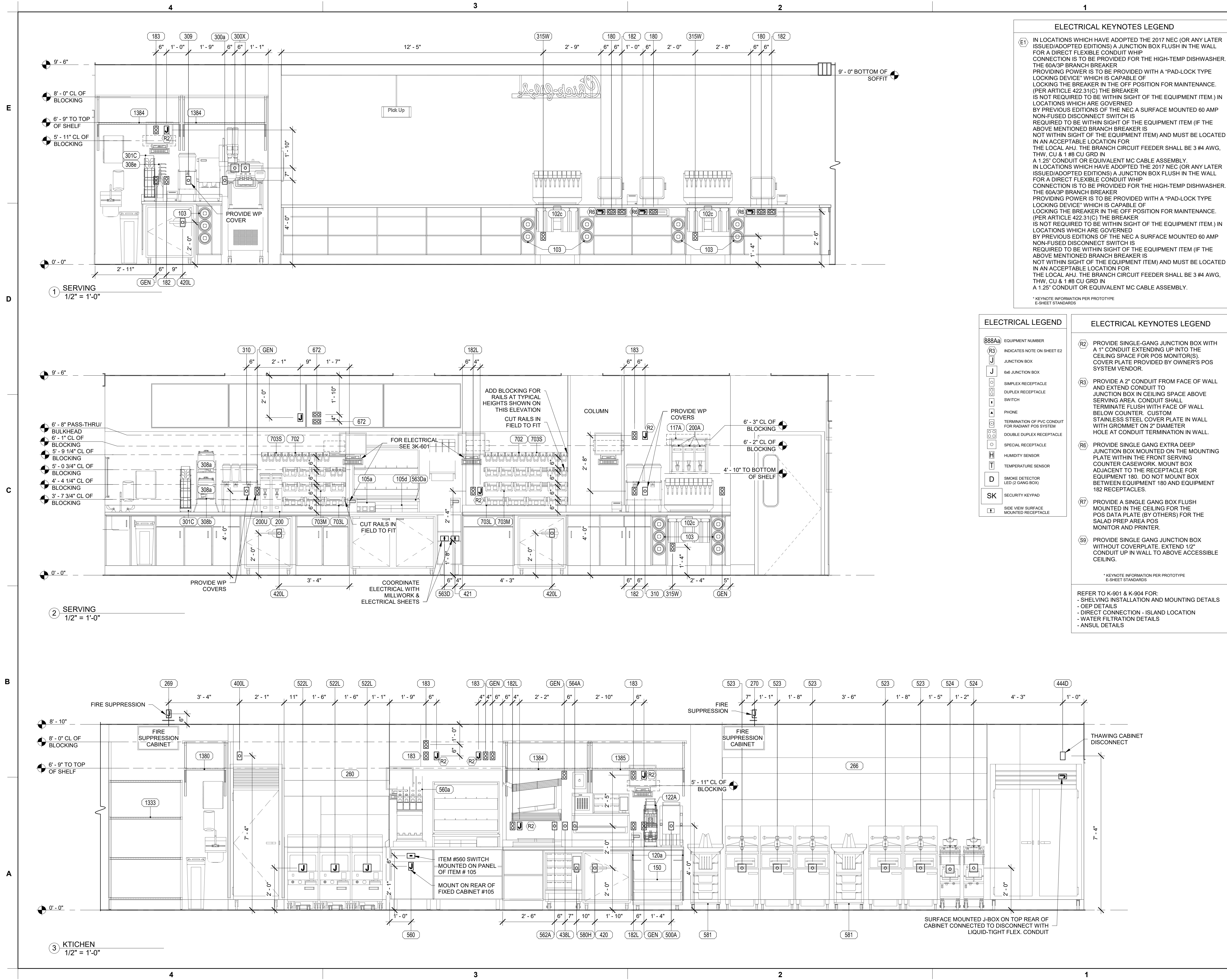
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SHEET
 KITCHEN EQUIPMENT
 PLAN

SHEET NUMBER
K-201

1 KITCHEN EQUIPMENT PLAN
 3/8" = 1'-0"



ELECTRICAL KEYNOTES LEGEND

(E1) IN LOCATIONS WHICH HAVE ADOPTED THE 2017 NEC (OR ANY LATER ISSUED/ADOPTED EDITIONS) A JUNCTION BOX FLUSH IN THE WALL FOR A DIRECT FLEXIBLE CONDUIT WHIP CONNECTION IS TO BE PROVIDED FOR THE HIGH-TEMP DISHWASHER. THE 60A/3P BRANCH BREAKER PROVIDING POWER IS TO BE PROVIDED WITH A "PAD-LOCK TYPE LOCKING DEVICE" WHICH IS CAPABLE OF LOCKING THE BREAKER IN THE OFF POSITION FOR MAINTENANCE. (PER ARTICLE 422.31(C) THE BREAKER IS NOT REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM.) IN LOCATIONS WHICH ARE GOVERNED BY PREVIOUS EDITIONS OF THE NEC A SURFACE MOUNTED 60 AMP NON-FUSED DISCONNECT SWITCH IS REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM (IF THE ABOVE MENTIONED BRANCH BREAKER IS NOT WITHIN SIGHT OF THE EQUIPMENT ITEM) AND MUST BE LOCATED IN AN ACCEPTABLE LOCATION FOR THE LOCAL AHJ. THE BRANCH CIRCUIT FEEDER SHALL BE 3 #4 AWG, THW, CU & 1 #8 CU GRD IN A 1.25" CONDUIT OR EQUIVALENT MC CABLE ASSEMBLY.

* KEYNOTE INFORMATION PER PROTOTYPE E-SHEET STANDARDS

ELECTRICAL LEGEND

888Aa	EQUIPMENT NUMBER
R3	INDICATES NOTE ON SHEET E2
J	JUNCTION BOX
J	666 JUNCTION BOX
⊕	SIMPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SWITCH
⊕	PHONE
⊕	TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
⊕	DOUBLE DUPLEX RECEPTACLE
⊕	SPECIAL RECEPTACLE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (2 GANG BOX)
SK	SECURITY KEYPAD
⊕	SIDE VIEW SURFACE MOUNTED RECEPTACLE

ELECTRICAL KEYNOTES LEGEND

(R2) PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.

(R3) PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.

(R6) PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

(R7) PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

(S9) PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE; EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

* KEYNOTE INFORMATION PER PROTOTYPE E-SHEET STANDARDS

REFER TO K-901 & K-904 FOR:
 - SHELVING INSTALLATION AND MOUNTING DETAILS
 - OEP DETAILS
 - DIRECT CONNECTION - ISLAND LOCATION
 - WATER FILTRATION DETAILS
 - ANSUL DETAILS



Chick-fil-A

Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998



CHICK-FIL-A
UNIVERSITY OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

CONSTRUCTION DOCUMENTS

LCV#80307
 BUILDING TYPE / SIZE:
 RELEASE: v8.22.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
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SHEET ELECTRICAL ROUGH-IN ELEVATION
 SHEET NUMBER **K-601**



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STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

CONSTRUCTION DOCUMENTS

LCV#80307

BUILDING TYPE / SIZE:
RELEASE: v8.22.11

REVISION SCHEDULE
NO. DATE DESCRIPTION

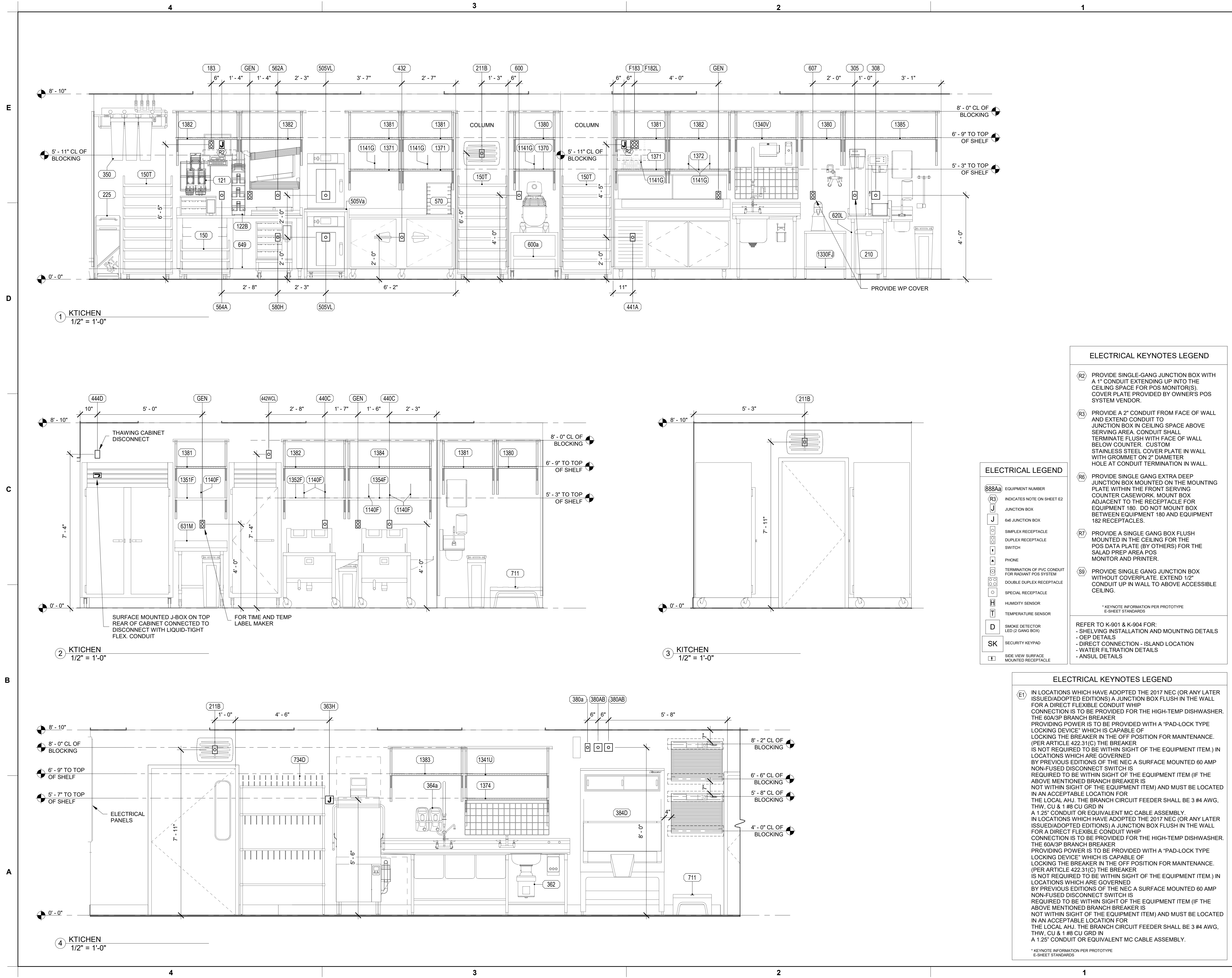
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SHEET
ELECTRICAL ROUGH-IN ELEVATION

SHEET NUMBER

K-602



ELECTRICAL KEYNOTES LEGEND	
(R2)	PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
(R3)	PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
(R6)	PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.
(R7)	PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.
(S9)	PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
*KEYNOTE INFORMATION PER PROTOTYPE E-SHEET STANDARDS	
REFER TO K-901 & K-904 FOR: - SHELVING INSTALLATION AND MOUNTING DETAILS - OEP DETAILS - DIRECT CONNECTION - ISLAND LOCATION - WATER FILTRATION DETAILS - ANSUL DETAILS	

ELECTRICAL LEGEND	
(888Aa)	EQUIPMENT NUMBER
(R)	INDICATES NOTE ON SHEET E2
(J)	JUNCTION BOX
(J)	60 AMP JUNCTION BOX
(R)	SIMPLEX RECEPTACLE
(D)	DUPLEX RECEPTACLE
(S)	SWITCH
(P)	PHONE
(D)	TERMINATION OF PVC CONDUIT FOR RADIANT FLOOR SYSTEM
(D)	DOUBLE DUPLEX RECEPTACLE
(S)	SPECIAL RECEPTACLE
(H)	HUMIDITY SENSOR
(T)	TEMPERATURE SENSOR
(D)	SMOKE DETECTOR LED (2 GANG BOX)
(SK)	SECURITY KEYPAD
(T)	SIDE VIEW SURFACE MOUNTED RECEPTACLE

ELECTRICAL KEYNOTES LEGEND	
(E1)	IN LOCATIONS WHICH HAVE ADOPTED THE 2017 NEC (OR ANY LATER ISSUED/ADOPTED EDITIONS) A JUNCTION BOX FLUSH IN THE WALL FOR A DIRECT FLEXIBLE CONDUIT WHIP CONNECTION IS TO BE PROVIDED FOR THE HIGH-TEMP DISHWASHER. THE 60A/SP BRANCH BREAKER PROVIDING POWER IS TO BE PROVIDED WITH A "PAD-LOCK TYPE LOCKING DEVICE" WHICH IS CAPABLE OF LOCKING THE BREAKER IN THE OFF POSITION FOR MAINTENANCE. (PER ARTICLE 422.31(C) THE BREAKER IS NOT REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM.) IN LOCATIONS WHICH ARE GOVERNED BY PREVIOUS EDITIONS OF THE NEC A SURFACE MOUNTED 60 AMP NON-FUSED DISCONNECT SWITCH IS REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM (IF THE ABOVE MENTIONED BRANCH BREAKER IS NOT WITHIN SIGHT OF THE EQUIPMENT ITEM) AND MUST BE LOCATED IN AN ACCEPTABLE LOCATION FOR THE LOCAL AHJ. THE BRANCH CIRCUIT FEEDER SHALL BE 3 #4 AWG, THW, CU & 1 #8 CU GRD IN A 1.25" CONDUIT OR EQUIVALENT MC CABLE ASSEMBLY.
(E2)	IN LOCATIONS WHICH HAVE ADOPTED THE 2017 NEC (OR ANY LATER ISSUED/ADOPTED EDITIONS) A JUNCTION BOX FLUSH IN THE WALL FOR A DIRECT FLEXIBLE CONDUIT WHIP CONNECTION IS TO BE PROVIDED FOR THE HIGH-TEMP DISHWASHER. THE 60A/SP BRANCH BREAKER PROVIDING POWER IS TO BE PROVIDED WITH A "PAD-LOCK TYPE LOCKING DEVICE" WHICH IS CAPABLE OF LOCKING THE BREAKER IN THE OFF POSITION FOR MAINTENANCE. (PER ARTICLE 422.31(C) THE BREAKER IS NOT REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM.) IN LOCATIONS WHICH ARE GOVERNED BY PREVIOUS EDITIONS OF THE NEC A SURFACE MOUNTED 60 AMP NON-FUSED DISCONNECT SWITCH IS REQUIRED TO BE WITHIN SIGHT OF THE EQUIPMENT ITEM (IF THE ABOVE MENTIONED BRANCH BREAKER IS NOT WITHIN SIGHT OF THE EQUIPMENT ITEM) AND MUST BE LOCATED IN AN ACCEPTABLE LOCATION FOR THE LOCAL AHJ. THE BRANCH CIRCUIT FEEDER SHALL BE 3 #4 AWG, THW, CU & 1 #8 CU GRD IN A 1.25" CONDUIT OR EQUIVALENT MC CABLE ASSEMBLY.
*KEYNOTE INFORMATION PER PROTOTYPE E-SHEET STANDARDS	

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80307-K-602-ELECTRICAL ROUGH-IN ELEVATION



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UNIVERSITY OF NORTH TEXAS
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1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307

BUILDING TYPE / SIZE:
RELEASE: v8.22.11

REVISION SCHEDULE
NO. DATE DESCRIPTION

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SHEET
PLUMBING ROUGH-IN
ELEVATION

SHEET NUMBER

K-611

CONSTRUCTION DOCUMENTS

KEYNOTE INFORMATION PER PROTOTYPE P-SHEET STANDARDS

PLUMBING LEGEND	
888Aa	EQUIPMENT NUMBER
	HOT WATER
	COLD WATER
	TEPID WATER
	FILTERED WATER (FW)
	FILTERED WATER (FW2)
	SAN
	GAS

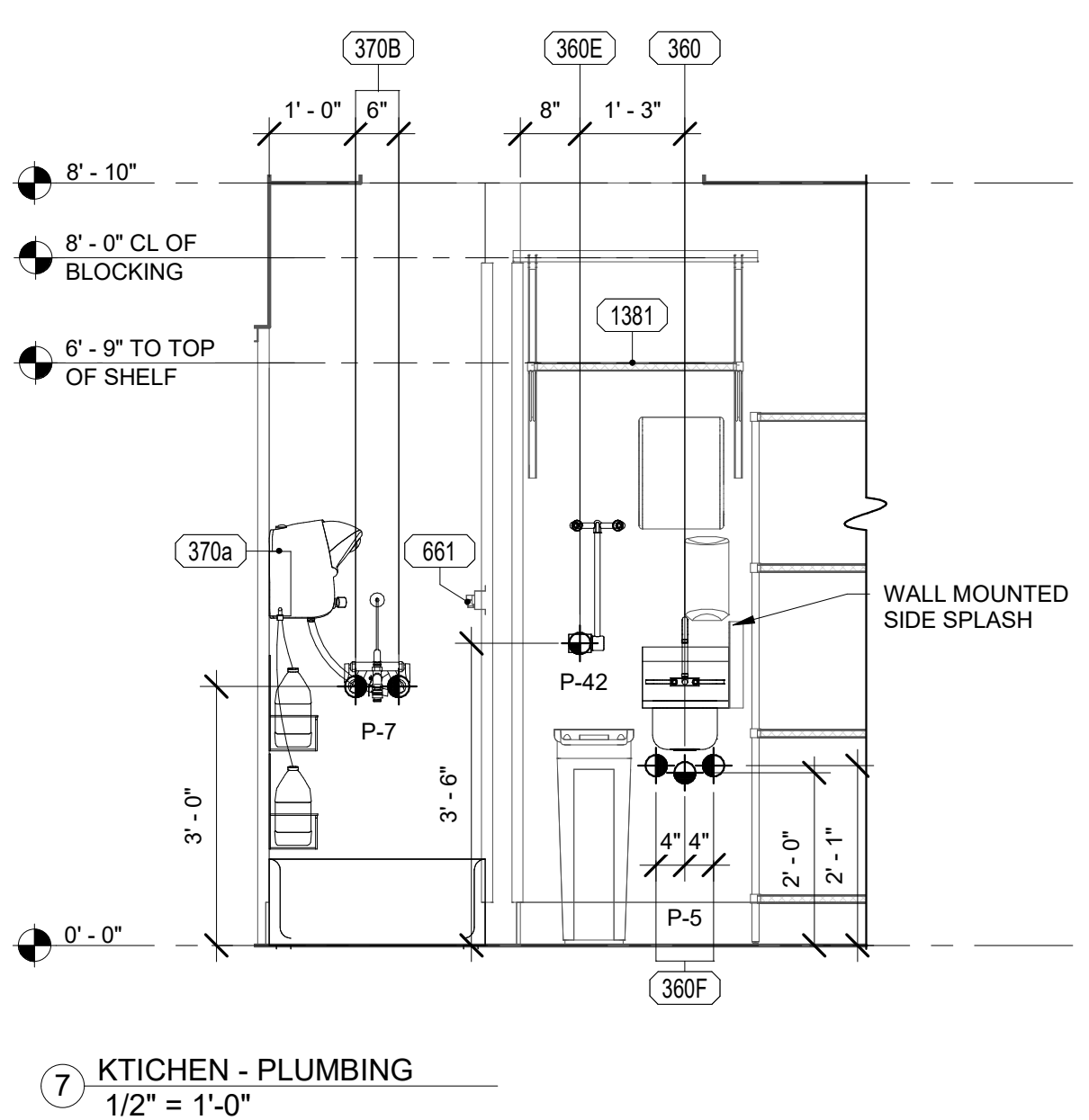
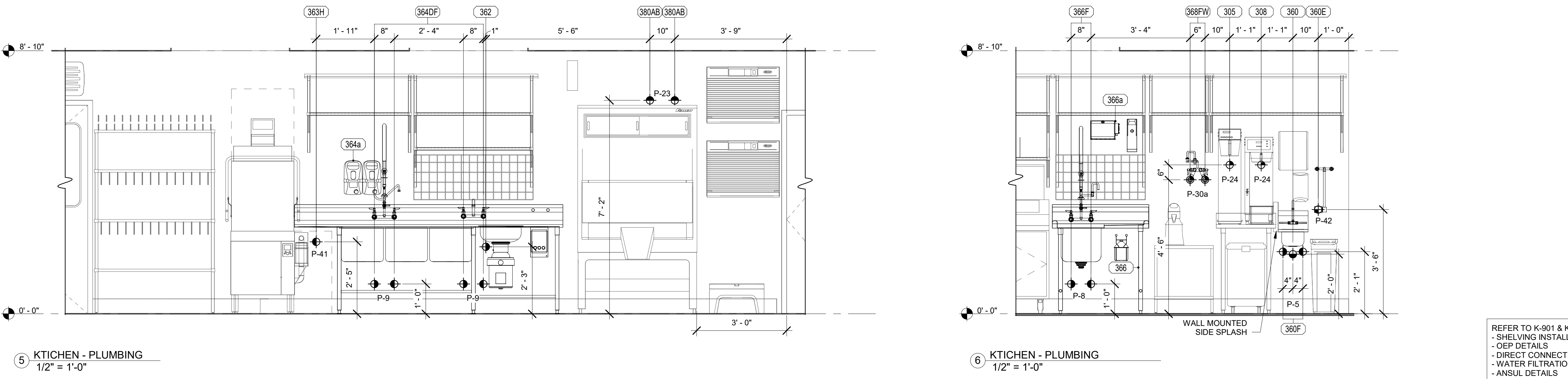
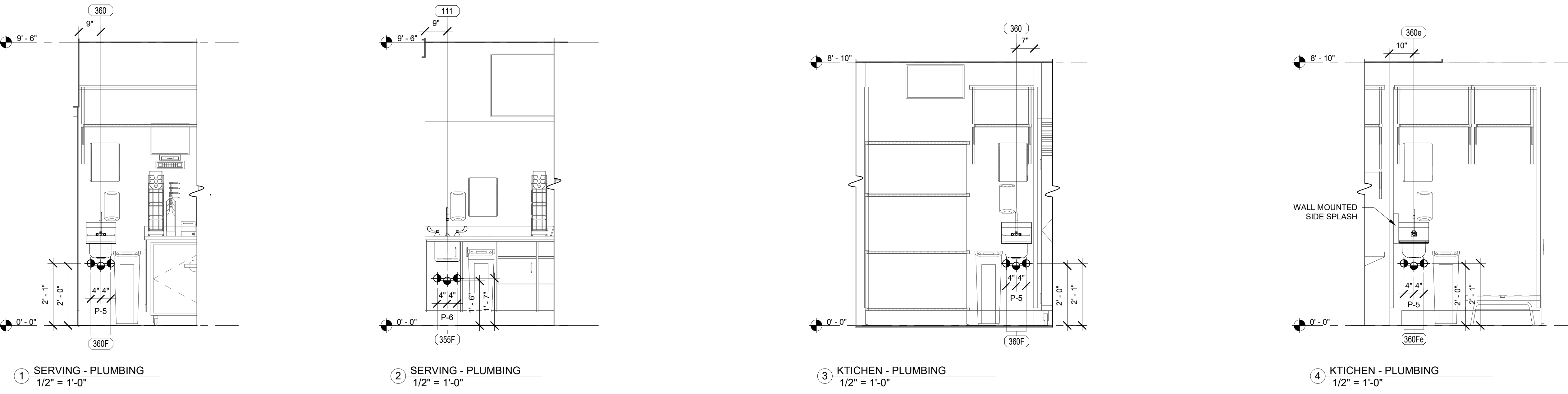
REFER TO K-901 & K-902 FOR:
- SHELVEING INSTALLATION AND MOUNTING DETAILS
- OEP DETAILS
- DIRECT CONNECTION - ISLAND LOCATION
- WATER FILTRATION DETAILS
- ANSUL DETAILS

PLUMBING KEYNOTES LEGEND	
P-5	KITCHEN HAND SINK ROUGH IN: (SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESSSTEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP. ADJUST FAUCET OUTLET TEMPERATURE TO 100 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
P-6	SERVING COUNTER DROP IN SINK ROUGH IN: (SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE LF175 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS. ADJUST FAUCET OUTLET TEMPERATURE TO 100 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
P-7	MOP SINK FAUCET: (MOP SINK BASIN BUILT BY GENERAL CONTRACTOR) PROVIDE 1/2" BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRASS, ADJUSTABLE INLETS SPREAD FROM 3" TOP 8". INCLUDE 1/2" BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS. SEE ALSO P-16.
P-8	VEGETABLE PREP SINK ROUGH IN: (SINK AND FAUCET WITH 0.65 GPM SPRAYHEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH 15" SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE MANIFOLD FROM SINK BASIN TO FLOOR SINK P-13B. NO P-TRAP REQUIRED. INSTALL CLEANOUT AT TURN.
P-41	DISHWASHER SUPPLY VALVE(S): FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) (PROVIDED BY HJC) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 2/P-302.

*KEYNOTE INFORMATION PER PROTOTYPE P-SHEET STANDARDS

PLUMBING KEYNOTES LEGEND	
P-9	THREE OR FOUR COMPARTMENT POT SINK ROUGH-IN: (SINK AND FAUCETS WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK ASSEMBLY & MOUNT TWO FAUCETS. AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE MANIFOLD FROM EACH SINK BASIN TO FLOOR SINK P-13A. NOP-TRAPS REQUIRED. PROVIDE CLEANOUT AT EACH END.
P-23	UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LFHST06S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-201 FOR PIPING AT ICE MAKERS.
P-24	UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFHST06S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.
P-28	BALL VALVE: NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET.
P-30a	3/4" FW DROP TO TWO HANDLE FAUCET, P-30a. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE RISER DIAGRAM 1/P-302.
P-42	EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH); BRADLEY MODEL S19-2000 EF88 THERMOSTATIC TEMPERING VALVE (PROVIDED BY HJC), ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F. INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT-OFF WHEN COLD WATER SUPPLY IS LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED, ROUGH BRASS FINISH. NO SUBSTITUTIONS. CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES & CADBURY FOR PRICING AND DELIVERY.

*KEYNOTE INFORMATION PER PROTOTYPE P-SHEET STANDARDS



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80307-K-611-PLUMBING ROUGH-IN ELEVATION

PROPRIETARY KITCHEN EQUIPMENT SCHEDULE (ITEMS SUPPLIED BY FCC)

TO ORDER EQUIPMENT CONTACT MICHELLE GANSKO AT FCC ACCOUNT MANAGER (541) 464-5235 - WWW.FCC-CREATE.COM

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL												ITEM NO.	REMARKS		
				ELECTRICAL					PLUMBING										
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW			ROUGH-IN	
102c	3	MODULAR BEVERAGE CADDY KIT 3	FCC															102c	KIT INCLUDES (1) BACKPLATE, (4) LID HOLDERS, AND (1) STRAW HOLDER - (1) DRINK CARRIER TO BE PROVIDED PER RESTAURANT (NOT SHOWN ON DRAWINGS)
105	1	PASS-THRU COUNTER	FCC															105	REFER TO MANUFACTURER SHOP DRAWINGS
105a	1	STAINLESS STEEL BIN HOLDER	MILLWORK PROVIDER															105a	LOCATED ON PASS-THRU
105d	1	PACKAGE BAG HOLDER	FCC															105d	
563Da	1	DOUBLE TIER SANDWICH SLIDE STAND 38 INCH	FCC															563Da	REFER TO MANUFACTURER SHOP DRAWINGS

EQUIPMENT SCHEDULE (ITEMS SUPPLIED BY MILLWORK MANUFACTURER)

IF FCC IS PROVIDING ALL THE MILLWORK IN THE MILLWORK PACKAGE, PLEASE CONTACT MICHELLE GANSKO FCC ACCOUNT MANAGER (541) 464 - 5235 - WWW.FCC-CREATE.COM - IF NOT, CONTACT THE CONTRACTED MILLWORK PROVIDER.

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL												ITEM NO.	REMARKS		
				ELECTRICAL					PLUMBING										
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW			ROUGH-IN	
101	1	FRONT SERVING COUNTER	G.C.MILLWORK MANUFACTURER															101	REFER TO MANUFACTURER SHOP DRAWINGS
106	1	DESSERT COUNTER	G.C.MILLWORK MANUFACTURER															106	REFER TO MANUFACTURER SHOP DRAWINGS
108	1	BACK SERVING COUNTER	G.C.MILLWORK MANUFACTURER															108	REFER TO MANUFACTURER SHOP DRAWINGS
110	1	BACK SERVING COUNTER	G.C.MILLWORK MANUFACTURER															110	REFER TO MANUFACTURER SHOP DRAWINGS
111	1	STAINLESS STEEL UNDER MOUNT HAND SINK	VOLLRATH MODEL #10101-1												2"			111	
120	1	PRIMARY BOARDS COUNTER	G.C.MILLWORK MANUFACTURER															120	REFER TO MANUFACTURER SHOP DRAWINGS
120a	2	BUILT-IN BREAD RACK SLIDES	G.C.MILLWORK MANUFACTURER															120a	INCLUDE 2 BRACKETS PER SET; REFER TO MANUFACTURER SHOP DRAWINGS

EQUIPMENT SCHEDULE (ITEMS SUPPLIED BY THE GENERAL CONTRACTOR / FOOD SERVICE PROVIDER)

ALL EQUIPMENT IN THIS SCHEDULE IS TO BE PURCHASED BY THE GENERAL CONTRACTOR (GC) / FOOD SERVICE PROVIDER (FSP) - PROPOSED ALTERNATES TO BE APPROVED BY CFA ARCHITECT - ALL ELECTRICAL AND PLUMBING REQUIREMENTS ARE ESTIMATED - GC/FSP TO COORDINATE FINAL EQUIPMENT SELECTION WITH ARCHITECT

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL												ITEM NO.	REMARKS		
				ELECTRICAL					PLUMBING										
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW			ROUGH-IN	
150	2	BREAD RACK	LOCAL SUPPLIER															150	
150T	3	BREAD RACK	LOCAL SUPPLIER															150T	
180	3	ORDER REGISTER	GC/FSP VENDOR	120	1		0.70			5-20P								180	
181	3	CASH DRAWER	GC/FSP VENDOR															181	
182	4	RECEIPT PRINTER	GC/FSP VENDOR	120	1		1.80			5-20P								182	PROVIDE WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	3	LABEL PRINTER	GC/FSP VENDOR	120	1		1.7			5-20P								182L	PROVID WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	7	ORDER MONITOR	GC/FSP VENDOR	120	1		0.125			5-20P								183	
183a	7	RADIAL ARM	GC/FSP VENDOR															183a	USED TO MOUNT ORDER MONITORS - NOT SHOWN ON PLAN
202	6	UNDER-COUNTER SLIM JIM TRASH CAN	RUBBERMAID MODEL #FG354060GRAY															202	
202A	2	UNDER-COUNTER SLIM JIM TRASH CAN	RUBBERMAID MODEL #1971258															202A	
206	6	SOAP DISPENSER	ECOLAB MODEL #92211379															206	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
210	1	INGREDIENT BIN	RUBBERMAID MODEL #3602-88															210	
211B	3	FLY SYSTEM	GC/FSP VENDOR	120	1	0.017				5-15P								211B	
225	1	FAT VAT	PITCO FRIALATOR MODEL FAT VAT															225	
260	1	60" VENT HOOD	HALTON HOODS															260	HOOD SHROUD BY VENT HOOD MANUFACTURER; REFER TO SHOP DRAWINGS
266	1	151" VENT HOOD	HALTON HOODS															266	HOOD SHROUD BY VENT HOOD MANUFACTURER; REFER TO SHOP DRAWINGS
269	1	ANSUL FIRE SUPPRESSION SYSTEM	HALTON HOODS	120	1					DIRECT CONNECTION								269	REFER TO MANUFACTURER SHOP DRAWINGS
270	1	ANSUL FIRE SUPPRESSION SYSTEM	HALTON HOODS	120	1					DIRECT CONNECTION								270	REFER TO MANUFACTURER SHOP DRAWINGS
308e	1	SYRUP RACK	MONIN MODEL #P573															308e	
315W	3	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	GC/FSP VENDOR	115	1		10.00			5-15P/5-15P				3/4"				315W	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
355F	1	FAUCET FOR DECK MOUNTED HAND SINK	T&S MODEL #B-0328-CR-VF05															355F	
359	1	WALL MOUNTED SPLASH GUARD	GC/FSP VENDOR								1/2"	1/2"						359	SEE DETAILS PAGE K-901 FOR TYP.
359L	2	WALL MOUNTED SPLASH GUARD	GC/FSP VENDOR															359L	SEE DETAILS PAGE K-901 FOR TYP.
360	4	HAND SINK	EAGLE MODEL #SAN-10															360	SEE DETAILS PAGE K-901 FOR TYP.
360E	4	EMERGENCY EYEWASH STATION	ACORN MODEL #S0660-RH															360E	TO BE MOUNTED TO WALL BETWEEN 33 IN AND 45 IN AFF
360F	4	FAUCET FOR WALL MOUNTED HAND SINK	T&S MODEL #B-1146-CFA-VF05								1/2"	1/2"						360F	
360Fe	1	FAUCET FOR WALL MOUNTED HAND SINK	TOTO MODEL #TEL165-C20E#CP								1/2"	1/2"						360Fe	
362	1	DISPOSER	INSINKERATOR MODEL #SS-220-18B-MRS	208	3		3.3	2		DIRECT CONNECTION						2"		362	ORDER W/MANUAL REVERSE SWITCH & TYPE B SINK BOWL W/SILVER GUARD
363H	1	HIGH-TEMP UPRIGHT DISHWASHER	HOBART MODEL #AM16SVLT-2	208	3		53.68			DIRECT CONNECTION						3/4"		363H	INCLUDES 6 FT BRAIDED HOSE AND INTEGRATED DRAIN WATER TEMPERING SYSTEM
364a	1	3 COMPARTMENT SINK CHEMICAL DISPENSER	SOLIDSENSE															364a	
364D	1	3 COMPARTMENT SINK FOR DISPOSER (108")	GC/FSP VENDOR	208	3		3.3/5.0/2.5	2.0		HARD WIRED	1/2"	1/2"				1 1/2"		364D	(3) IW - WITH 18" DRAIN BOARD ON LEFT & 36" DRAIN BOARD ON RIGHT FOR DISPOSER - PROVIDE (3) FISHER #22209 DRAINS W/FLAT STRAINERS
364DF	1	FAUCETS FOR UTENSIL SINK	T&S MODEL #B-0152-14-CRBCT & #B2299-CR								1/2"	1/2"						364DF	(2) HW, (2) CW - INCLUDED IN T&S KIT #B-2495-CFAS
366	1	SINGLE BOWL VEGETABLE PREP SINK	EAGLE MODEL #314-16-1-18														1 1/2"	366	SEE DETAILS PAGE K-901 FOR TYP.
366a	1	VEGETABLE WASH DISPENSER	ECOLAB															366a	
366F	1	FAUCETS FOR VEGETABLE PREP SINK	T&S BRASS MODEL #B-0154-CR-C								1/2"	1/2"						366F	
368FW	1	FILTERED WATER FAUCET (WALL MOUNTED)	T&S MODEL #B-0599-CR															368FW	(2) P-30a
370a	1	MOP SINK CHEMICAL DISPENSER	SOLIDSENSE															370a	
370B	1	MOP SINK	GC/FSP VENDOR								1/2"	1/2"						370B	
371	2	MOP BUCKET	GC/FSP VENDOR															371	
660	6	PAPER TOWEL DISPENSER	SAN JAMAR #T1490TBK															660	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
661	1	MOP RACK	GC/FSP VENDOR															661	
670	1	SAFE	AMERICAN SECURITY PRODUCTS MODEL #9336356															670	DIGITAL KEYPAD OUTER DOOR HINGE RIGHT
672	4	MENU BOARD	CINEPLEX	120	0					5-20P								672	REFER TO MANUFACTURER SHOP DRAWINGS

EQUIPMENT SCHEDULE (FUTURE ITEMS)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL												ITEM NO.	REMARKS		
				ELECTRICAL					PLUMBING										
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW			ROUGH-IN	
F182L	1	FUTURE LABEL PRINTER	GC/FSP VENDOR	120	1		1.7			5-20P								F182L	PROVIDE WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
F183	1	FUTURE ORDER MONITOR	GC/FSP VENDOR	120	1		0.10			5-20P								F183	
F183a	1	FUTURE RADIAL ARM	GC/FSP VENDOR															F183a	USED TO MOUNT ORDER MONITORS - NOT SHOWN IN PLAN



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LCV#80307
BUILDING TYPE / SIZE:
RELEASE: v8.22.11

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
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DATE 04/27/2023
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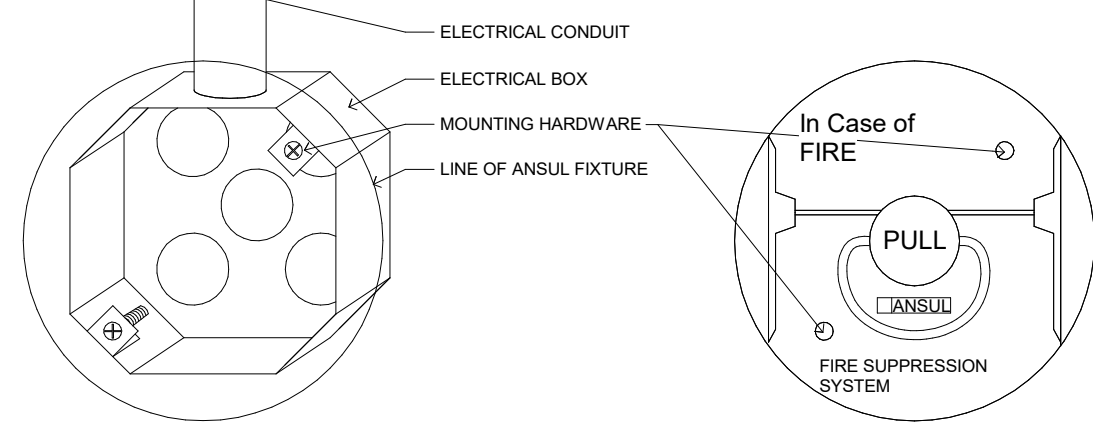
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SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-802

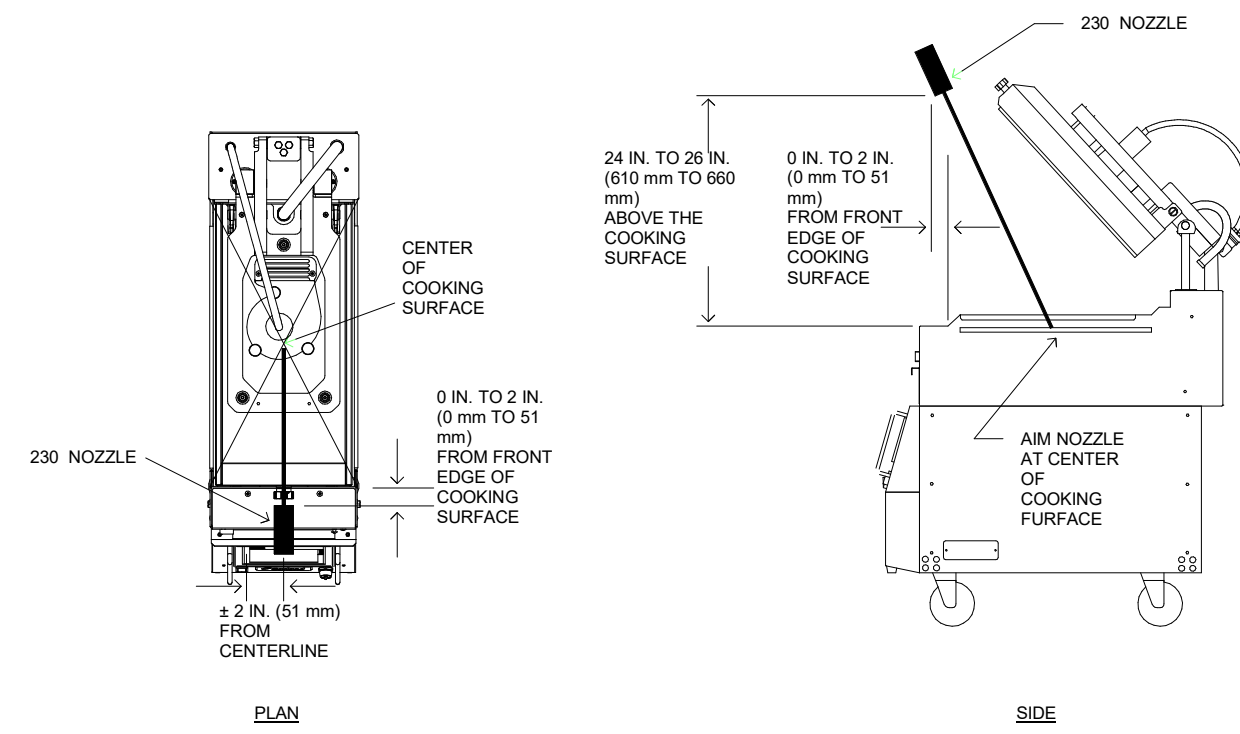
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CONSTRUCTION DOCUMENTS

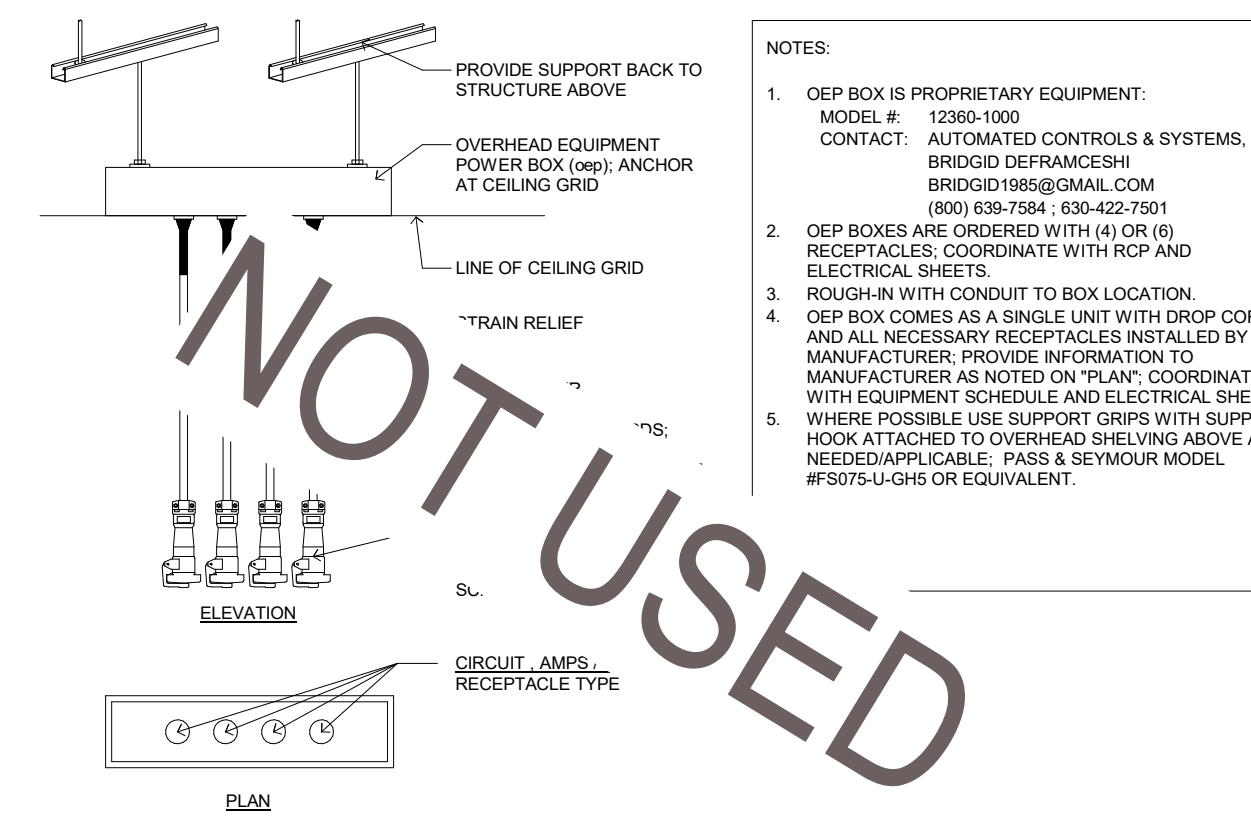


- NOTES:
- REFER TO KITCHEN ELEVATIONS FOR ANSUL FIXTURE LOCATION.
 - G.C. TO COORDINATE ELECTRICAL BOX REQUIREMENTS WITH SELECTED ANSUL SYSTEM.
 - VERIFY NECESSARY ORIENTATION OF ELECTRICAL BOX WITH MANUFACTURER PROVIDED COVER PLATE MOUNTING HARDWARE PRIOR TO INSTALLATION.
 - ELECTRICAL BOX AND ALL ASSOCIATED CONDUIT TO BE RECESSED IN WALL.

1 ANSUL PULL MOUNTING DETAIL
SCALE: N.T.S.



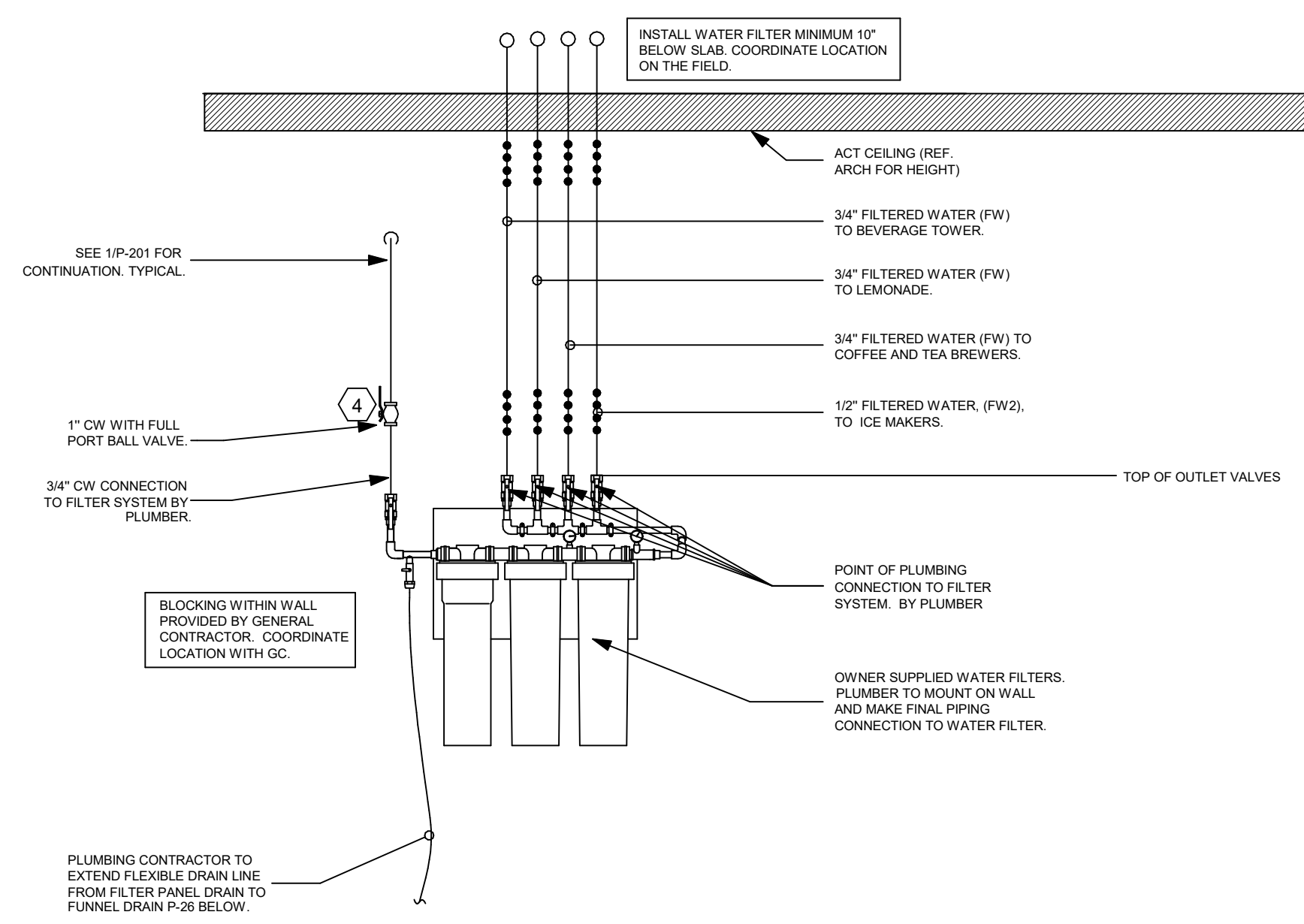
2 ANSUL NOZZLE AT GRILL ON HOOD
SCALE: N.T.S.



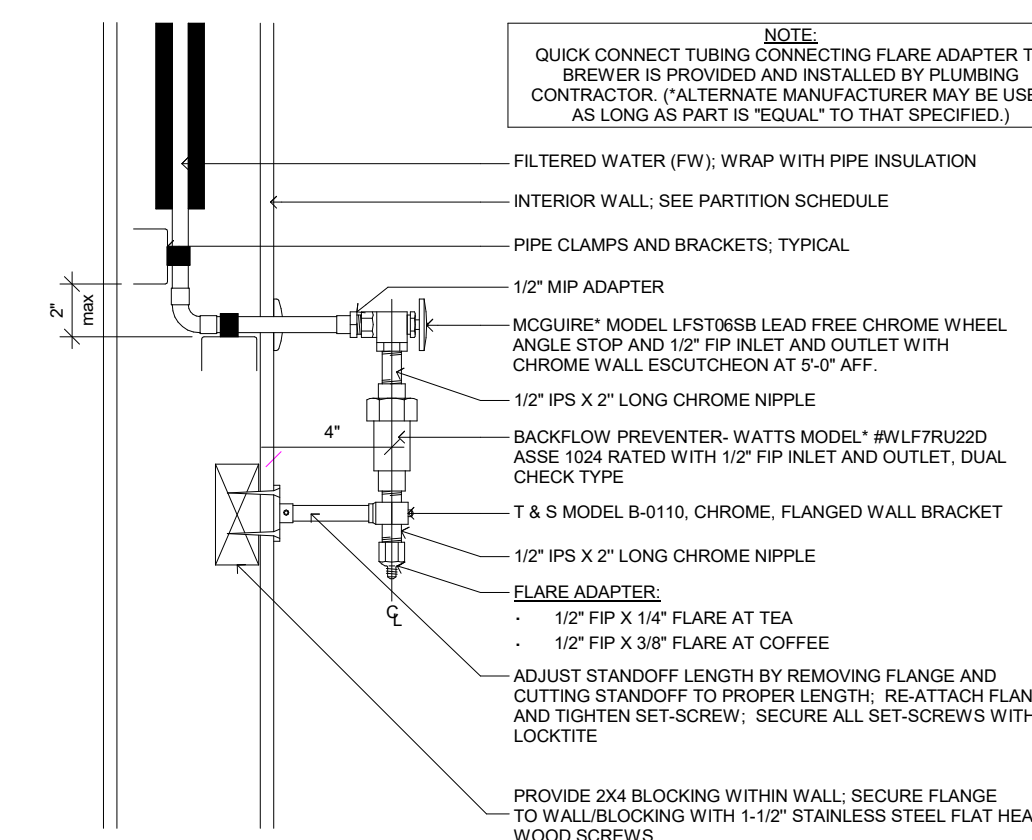
3 OEP DETAILS
SCALE: N.T.S.



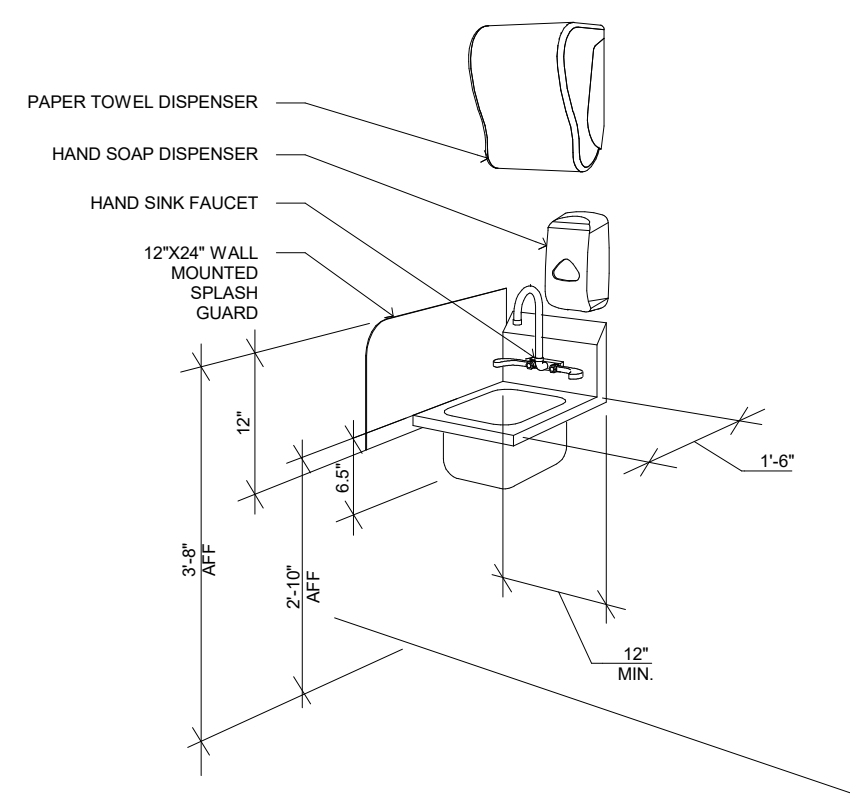
4 DIRECT CONNECTION - ISLAND LOCATION
SCALE: N.T.S.



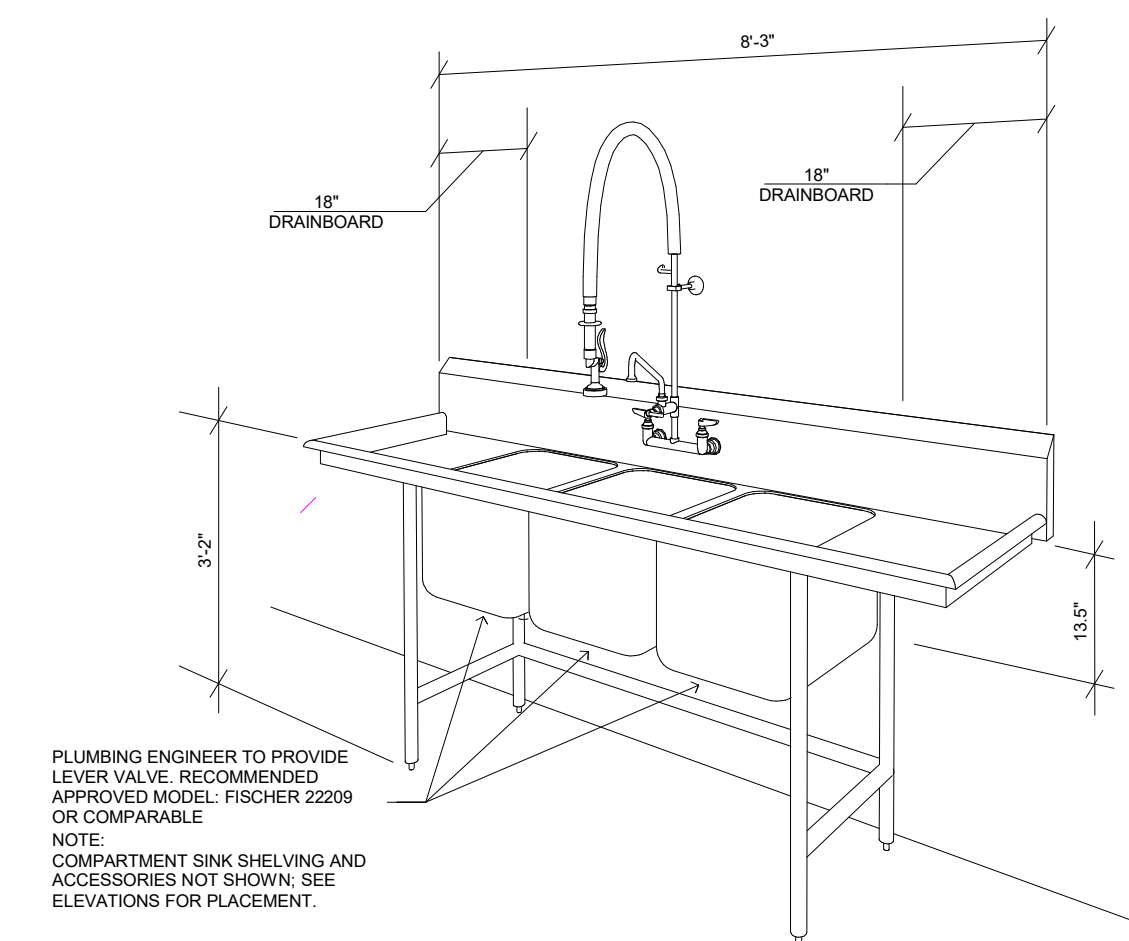
5 PIPING AT WATER FILTER
SCALE: N.T.S.



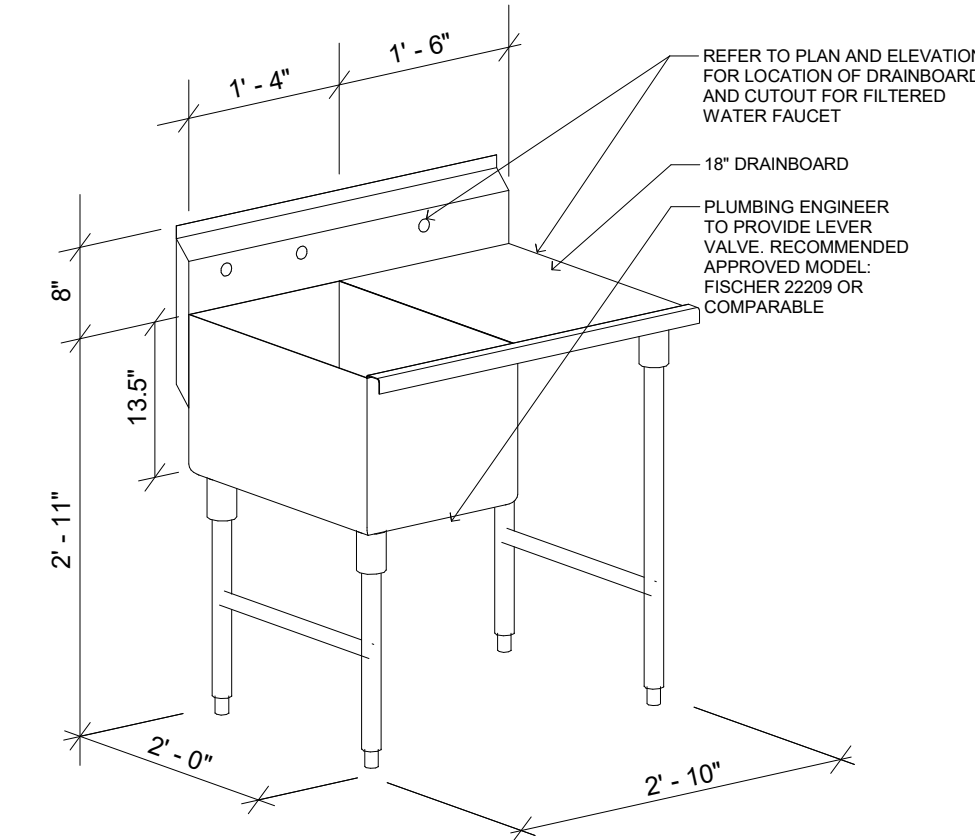
6 COFFEE & TEA BREWER STOP & BFP
SCALE: N.T.S.



7 TYP. HAND SINK DIMENSIONS
SCALE: N.T.S.

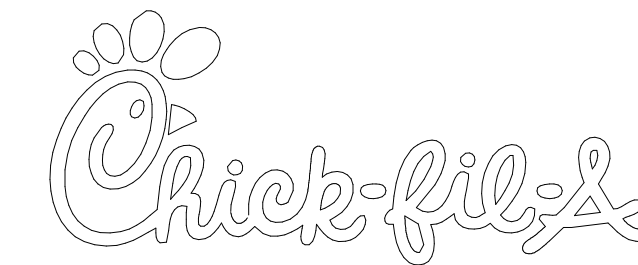


8 TYP. 3-COMP SINK DIMENSIONS
SCALE: N.T.S.



9 TYP. 1-COMP SINK W/ DRAINBOARD
SCALE: N.T.S.

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CONSTRUCTION DOCUMENTS

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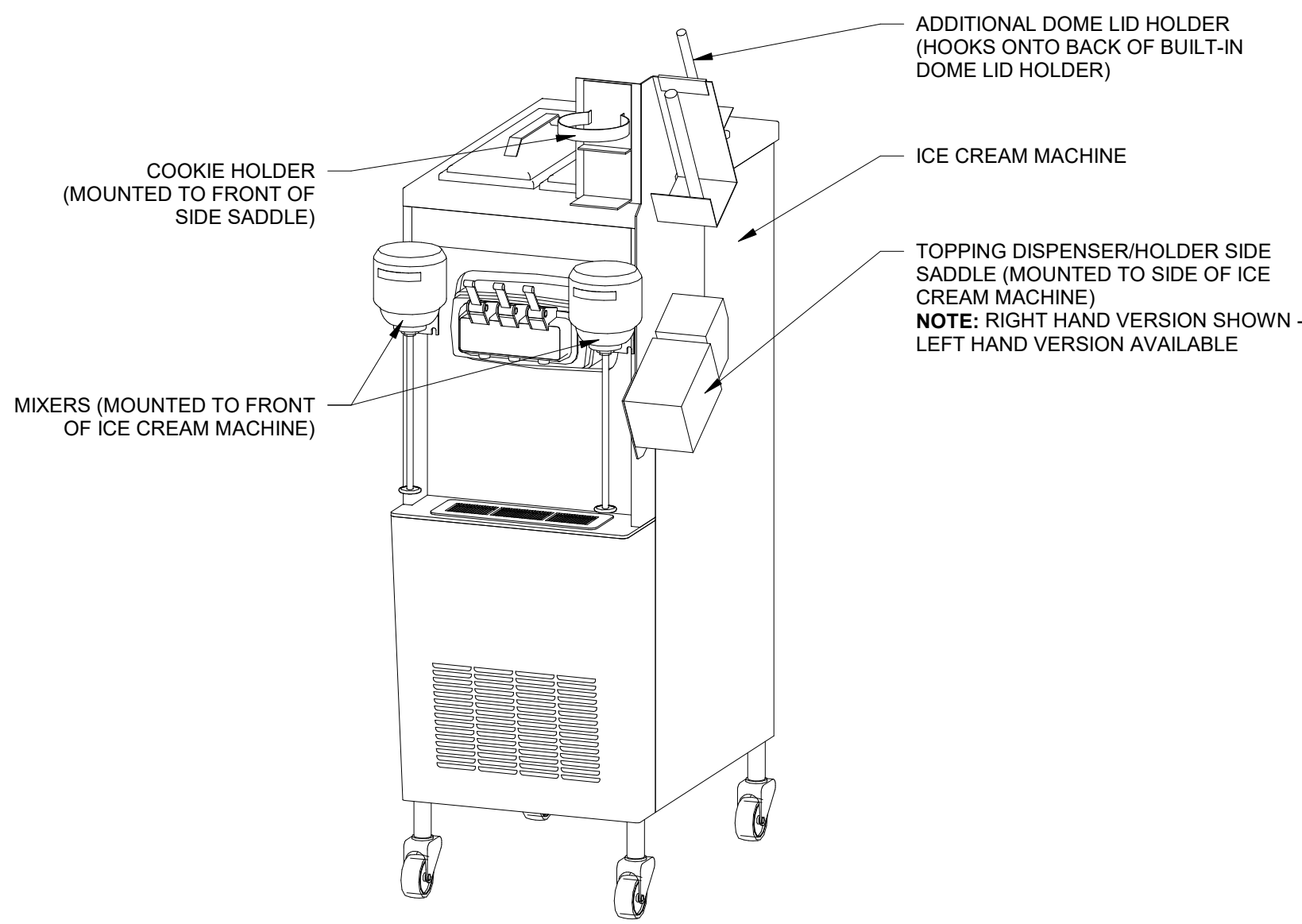
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NO.	DATE	DESCRIPTION

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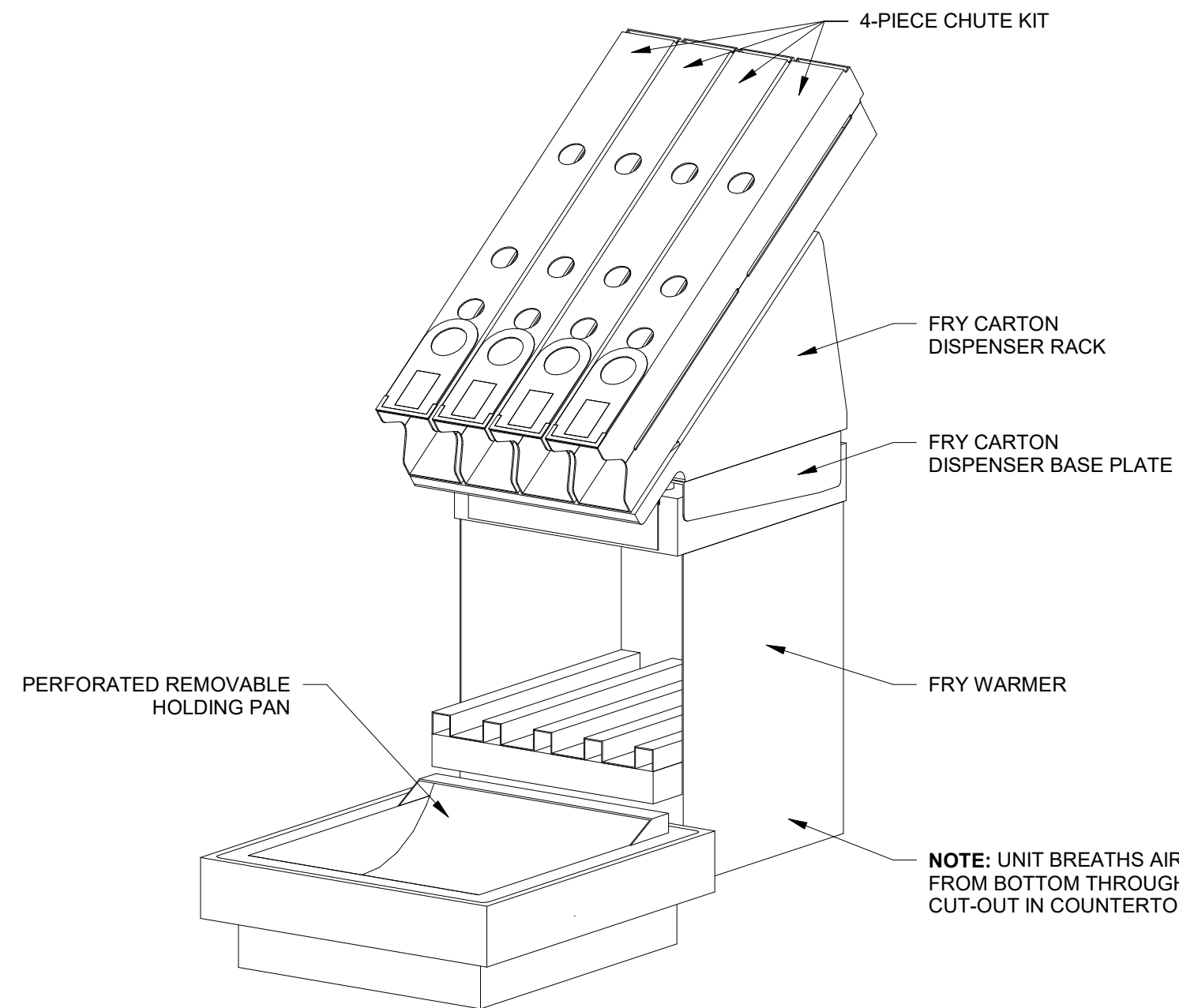
SHEET
KITCHEN DETAILS

SHEET NUMBER
K-901

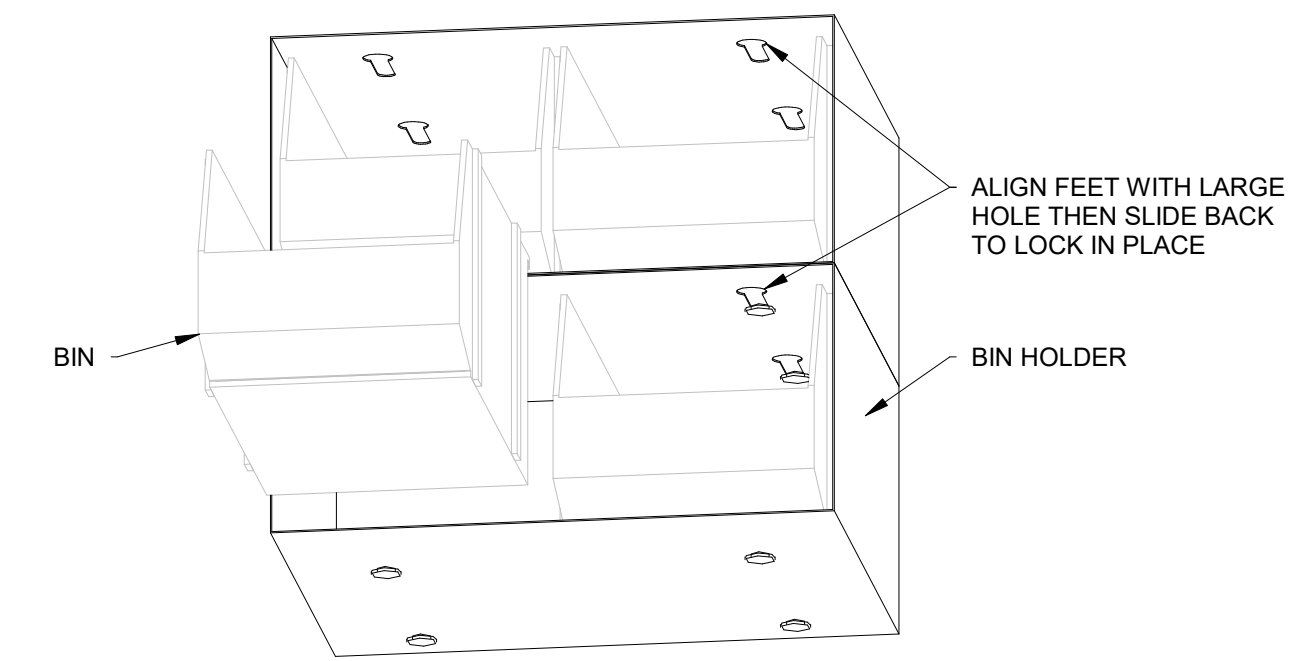


1 ICE CREAM MACHINE & ACCESSORIES
SCALE: N.T.S.

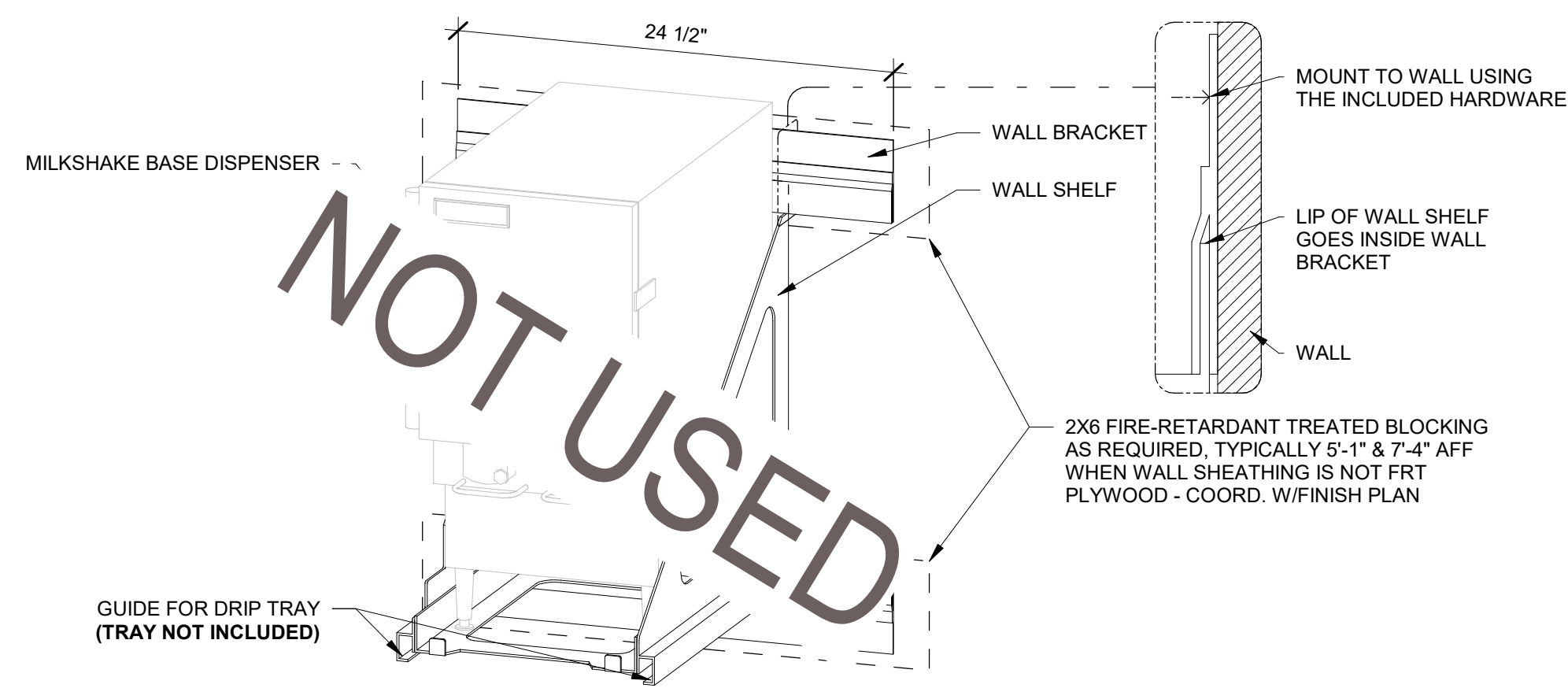
NOTE:
- MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT
- HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF THE PERFORATED PAN
- CUT-OUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE



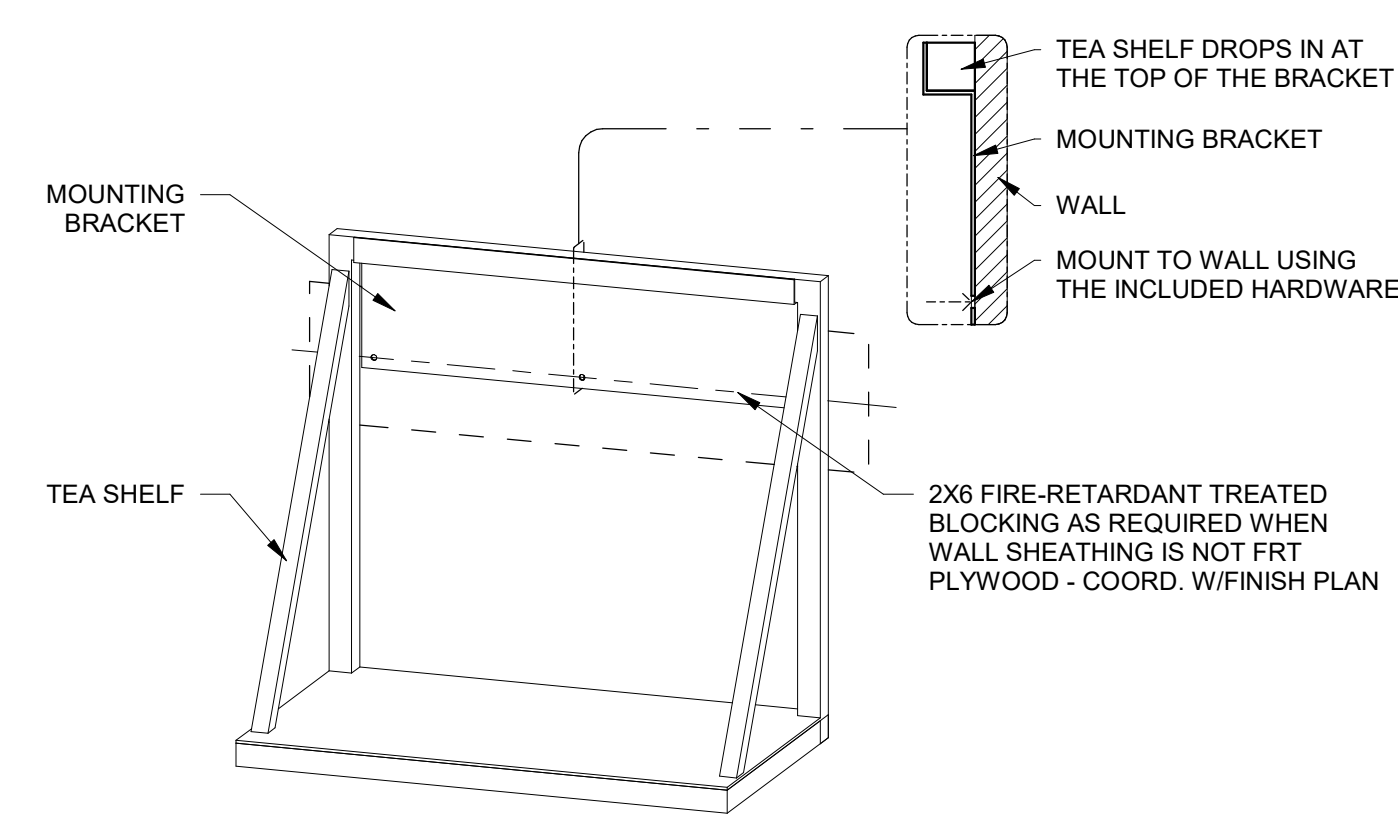
2 FRY PACKAGING & FRY DUMP
SCALE: N.T.S.



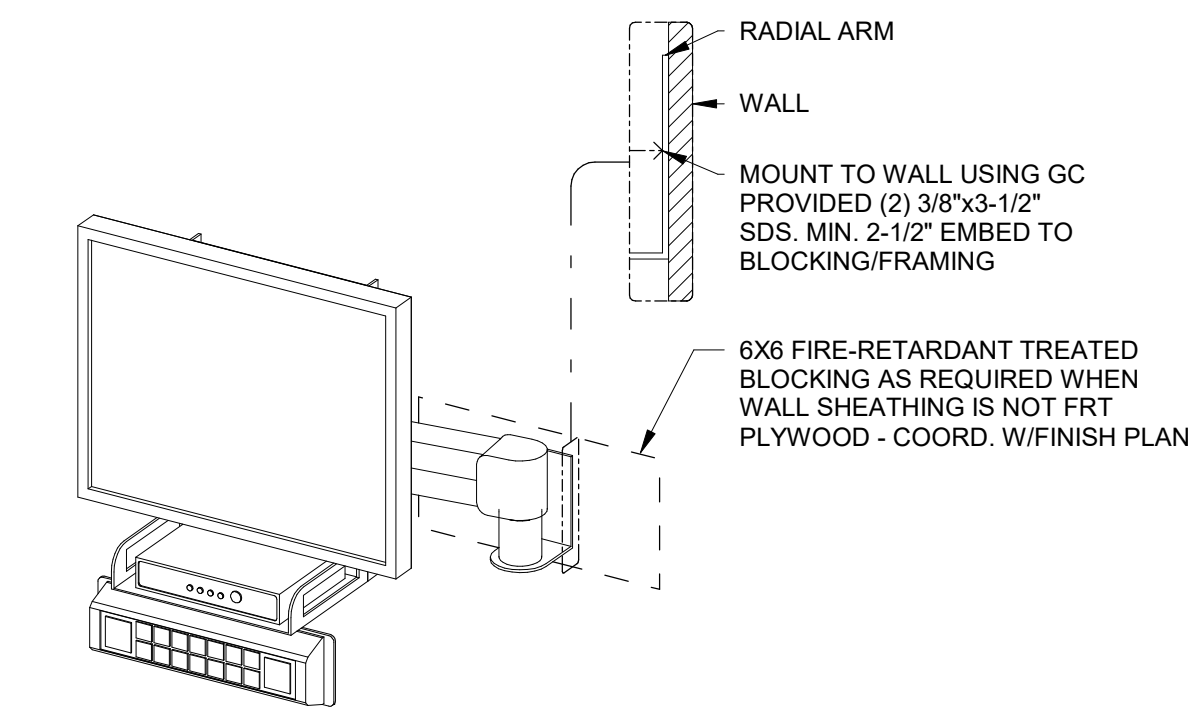
3 BIN HOLDER WITH BINS
SCALE: N.T.S.



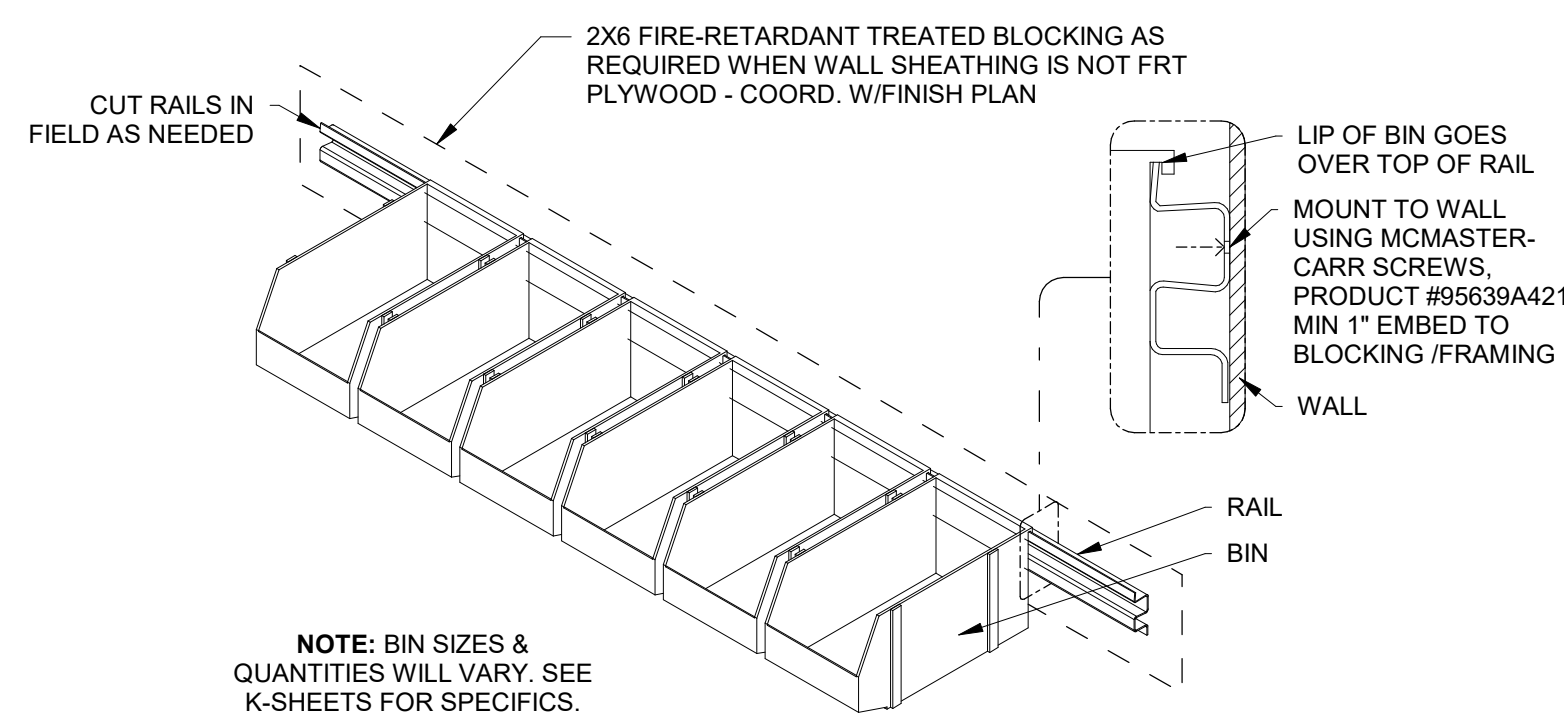
4 MILKSHAKE BASE DISPENSER & SHELF
SCALE: N.T.S.



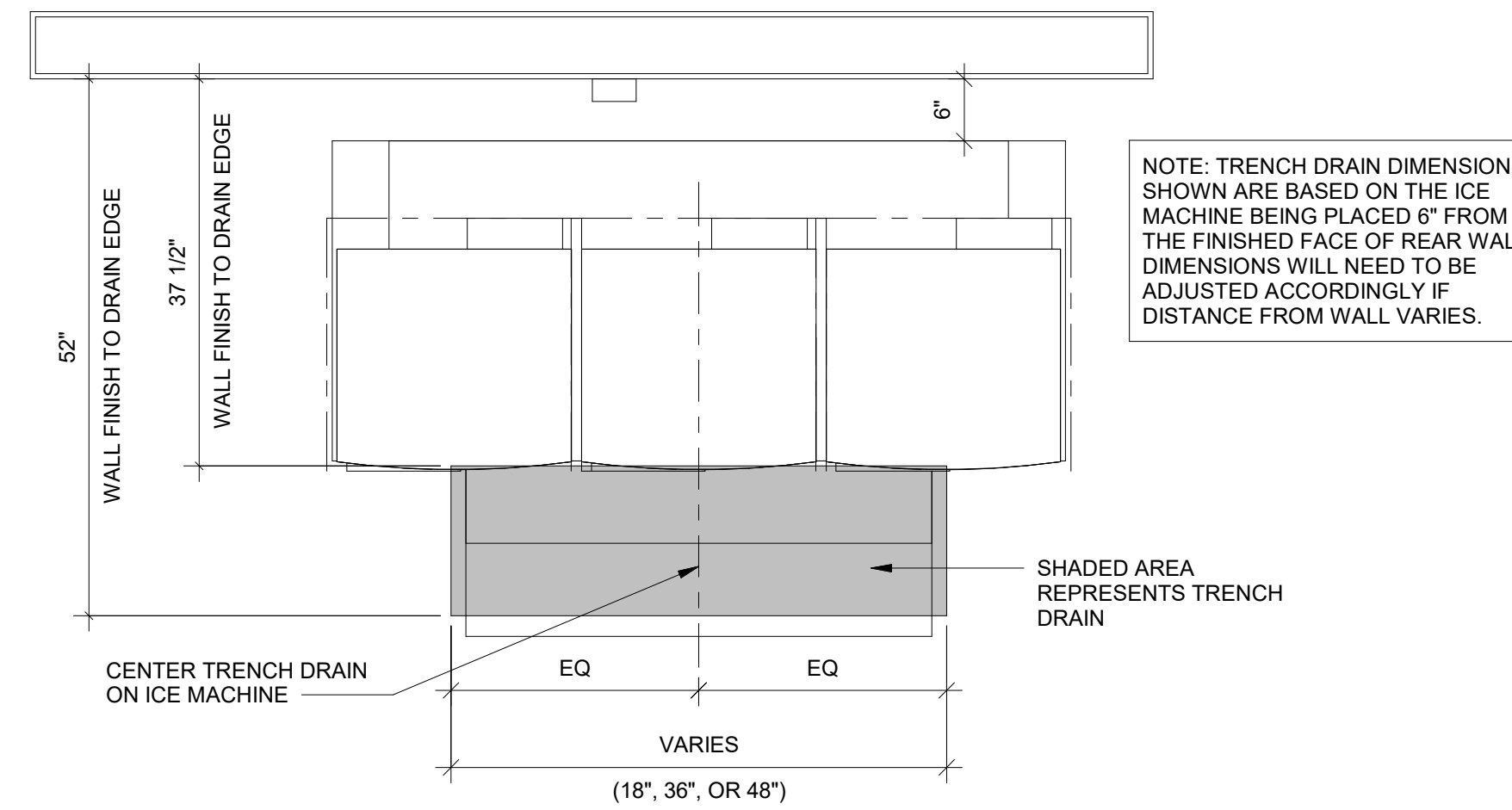
5 TEA SHELF
SCALE: N.T.S.



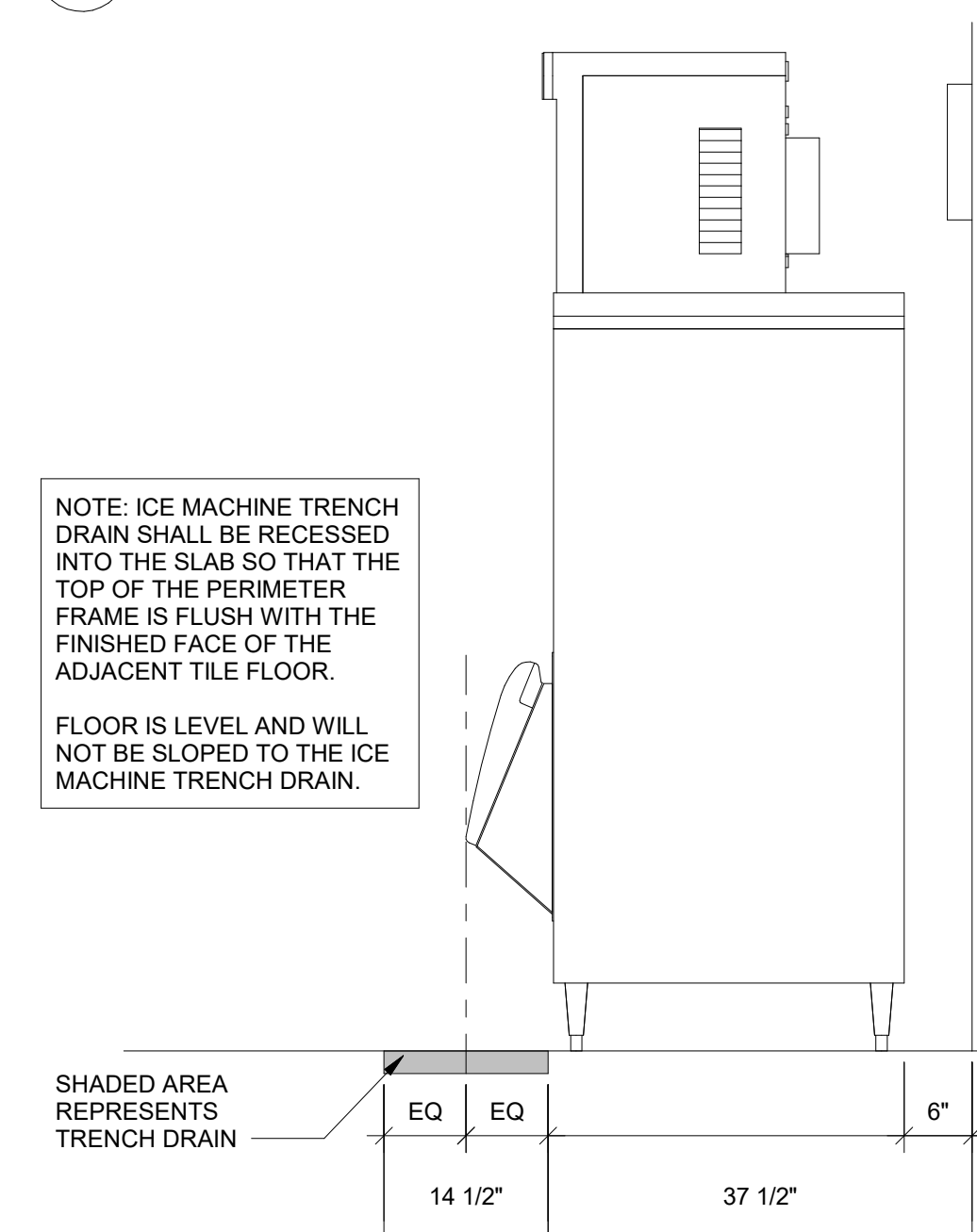
6 KPS ARM
SCALE: N.T.S.



7 RAIL & BINS
SCALE: N.T.S.



8 TYP. TRENCH DRAIN AT ICE MACHINE: PLAN
SCALE: N.T.S.



9 TYP. TRENCH DRAIN AT ICE MACHINE: ELEVATION
SCALE: N.T.S.

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TriMark
Foodservice Equipment, Supplies and Design

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1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307

BUILDING TYPE / SIZE:
RELEASE: v8.22.11

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT #

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DATE 04/27/2023

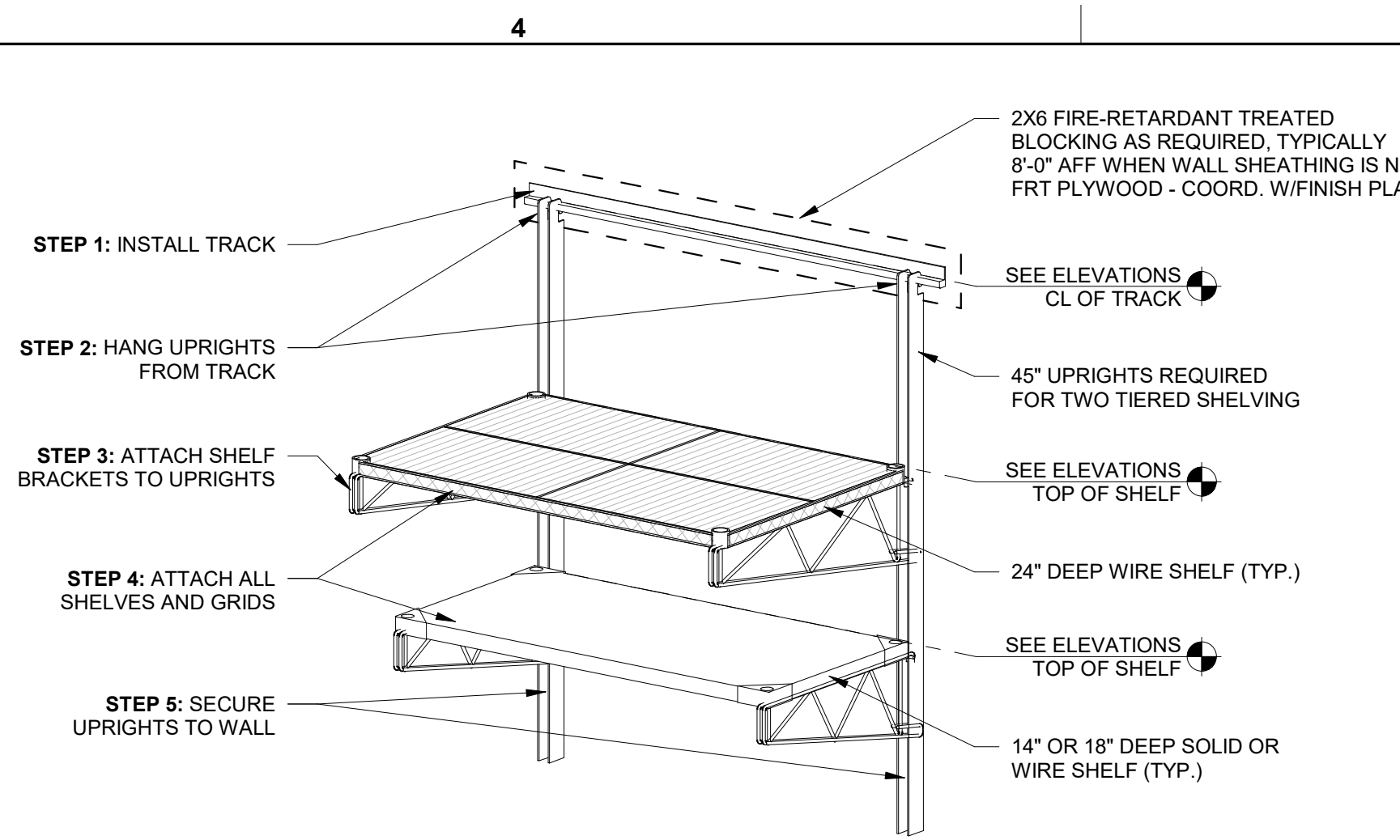
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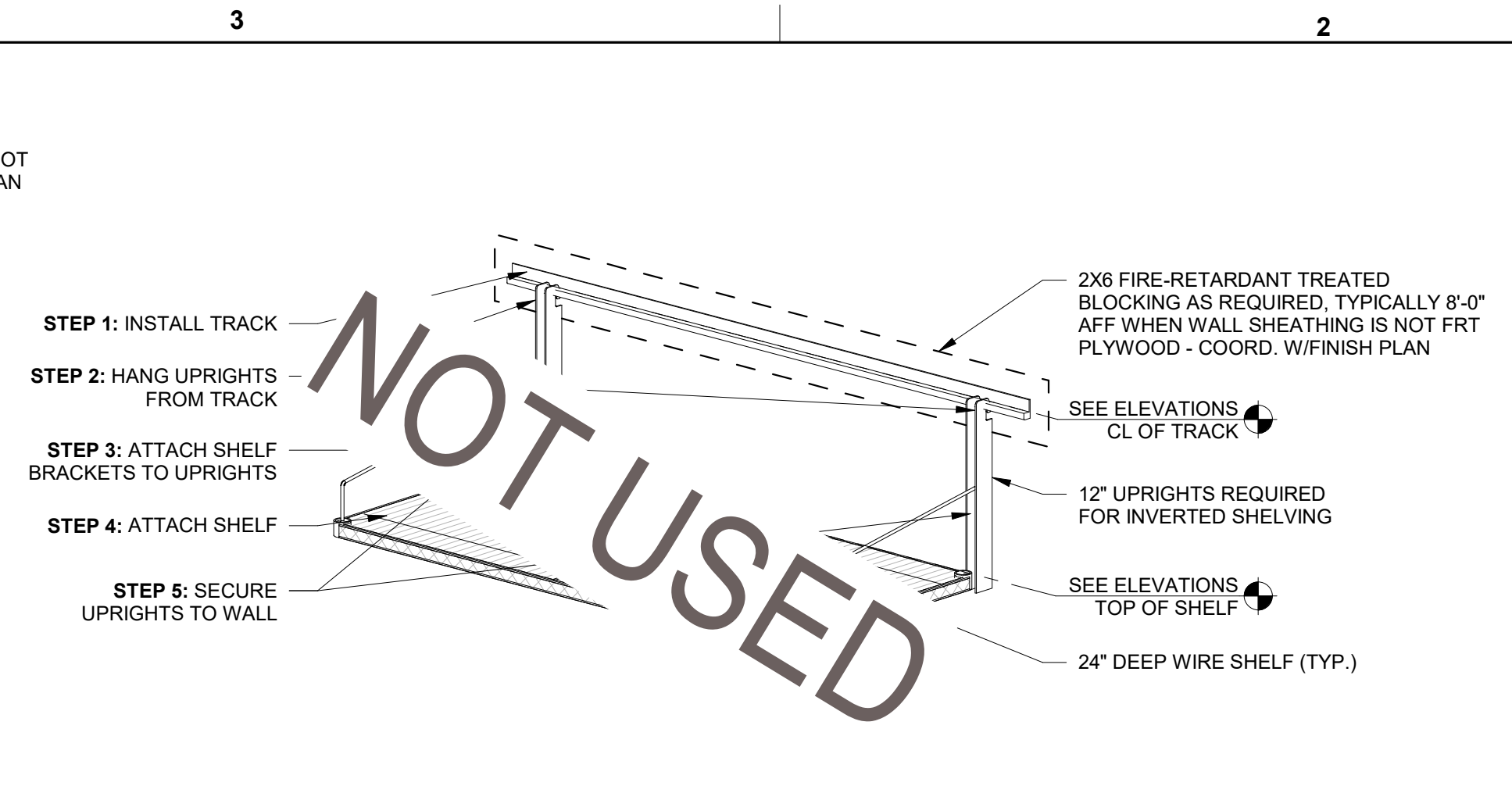
SHEET KITCHEN DETAILS

SHEET NUMBER

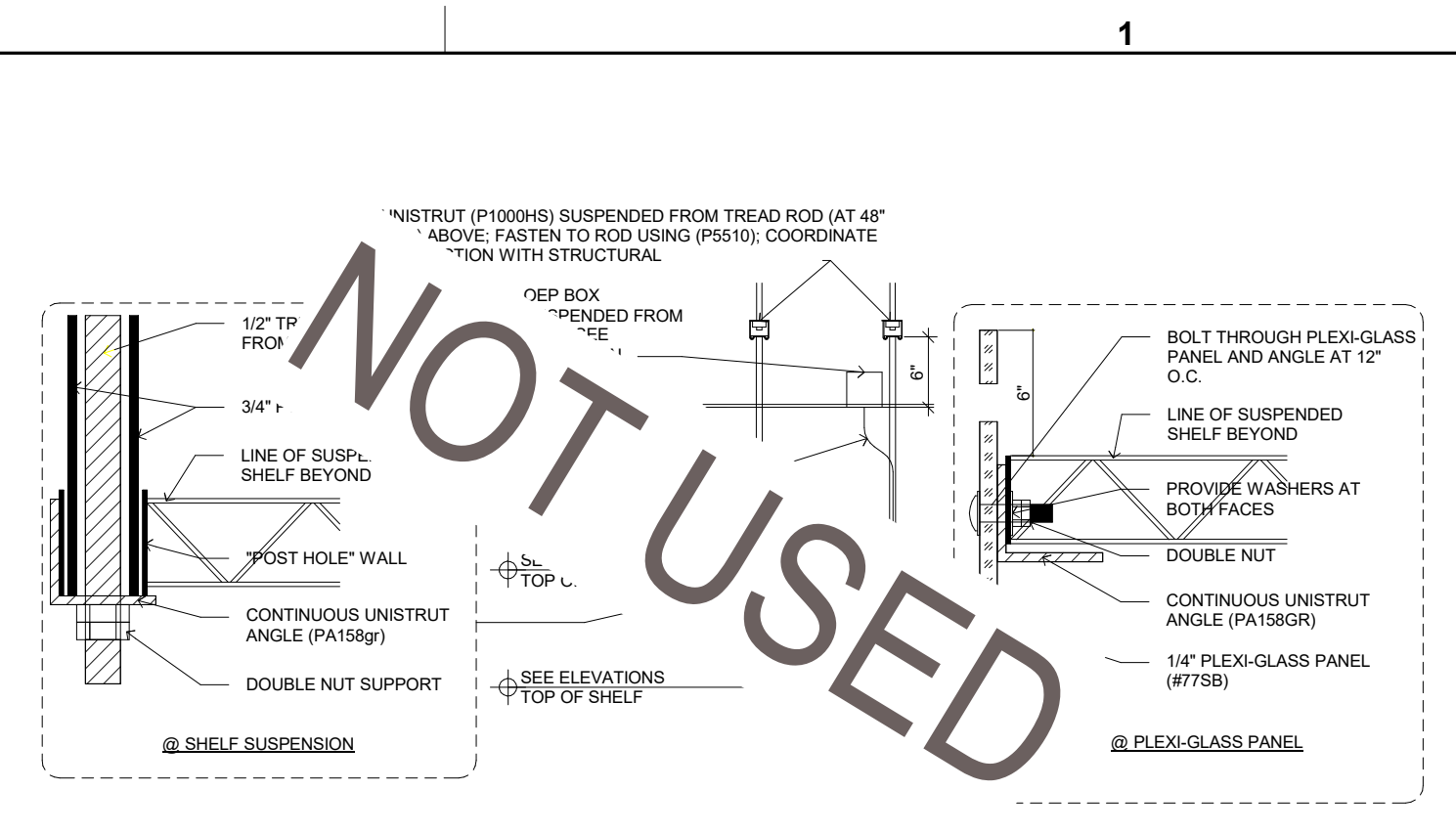
K-902



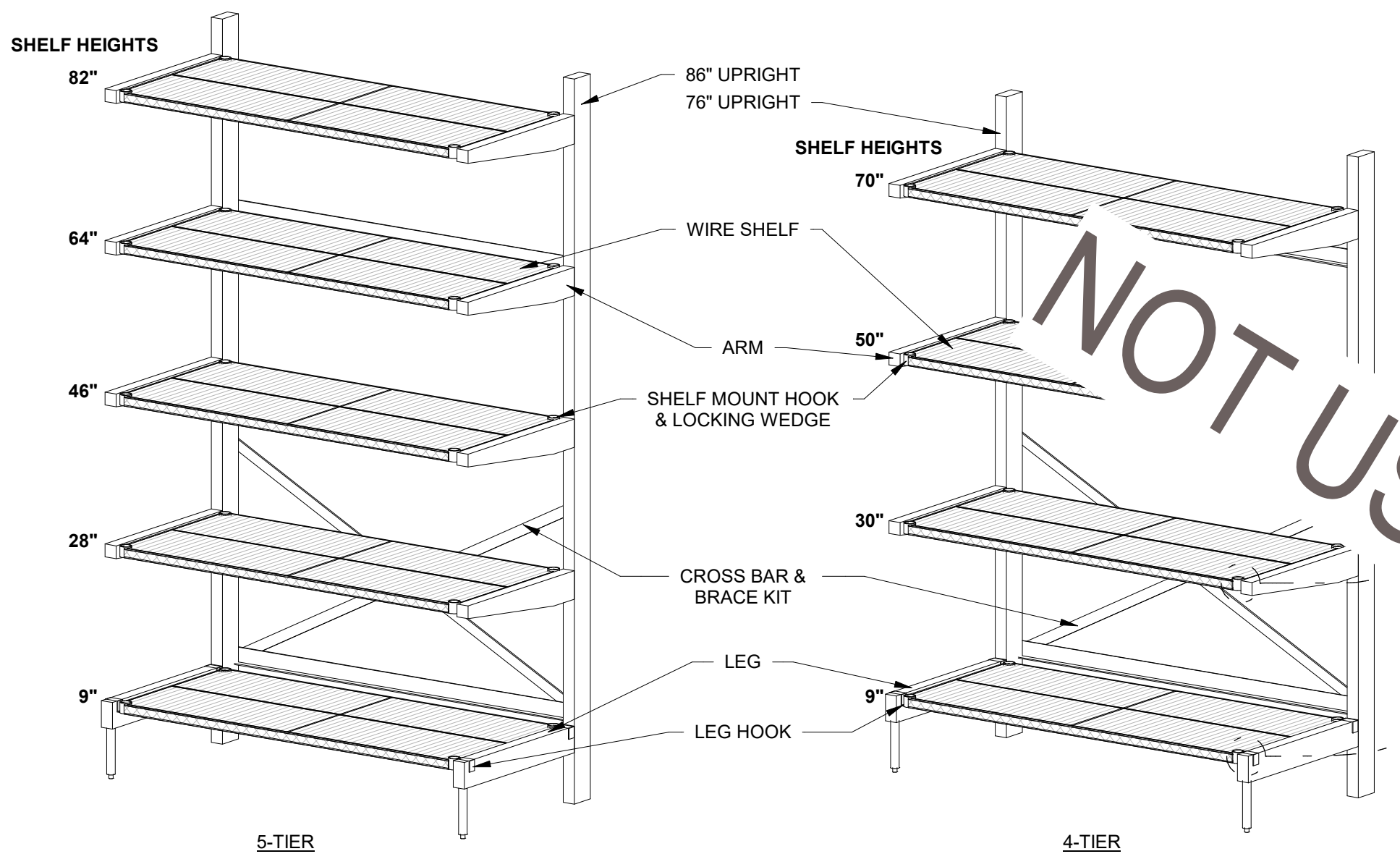
1 SHELVING INSTALL DETAIL: WALL MTD.
SCALE: N.T.S.



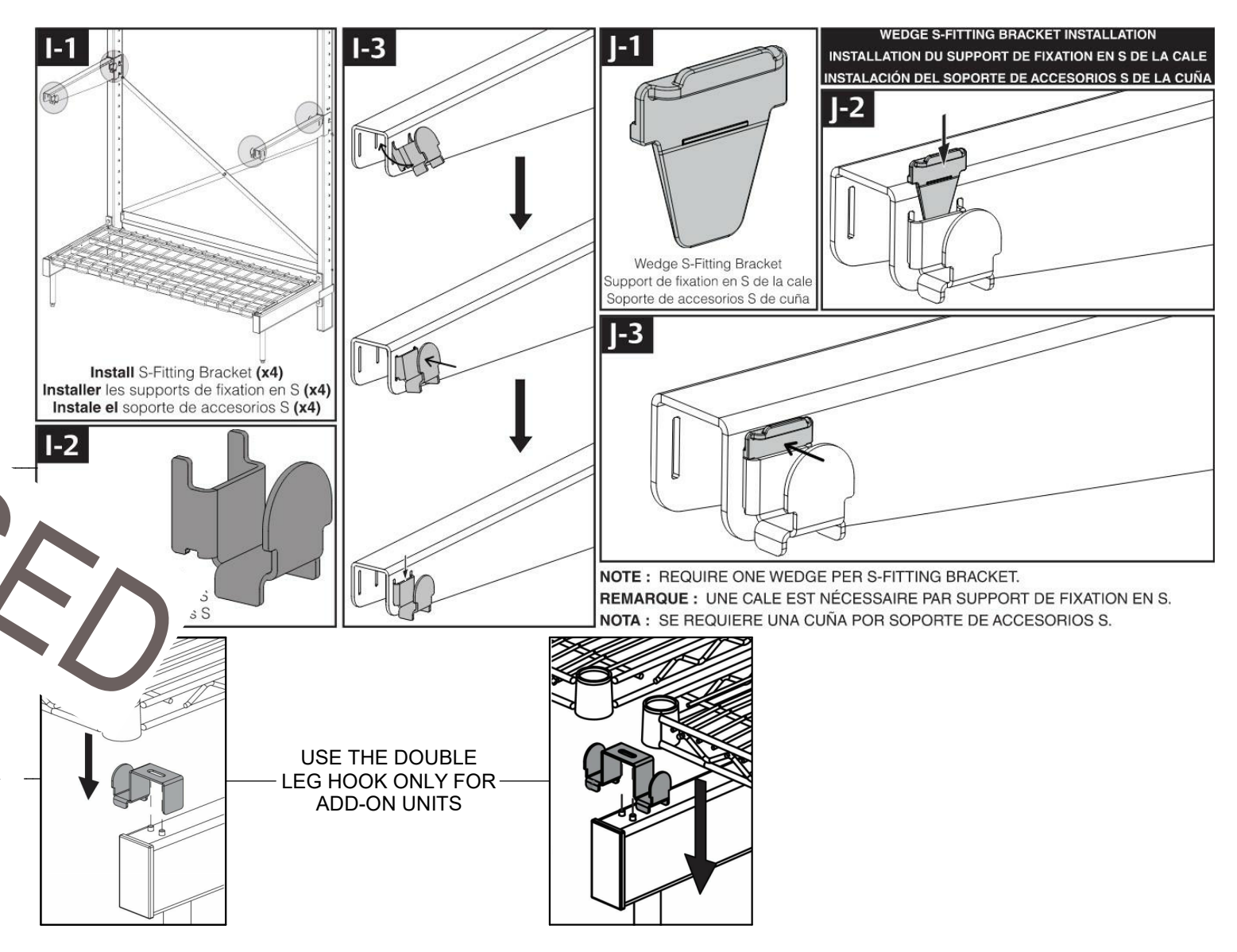
2 SHELVING INSTALL DETAIL: WALL MTD. - INVERTED
SCALE: N.T.S.



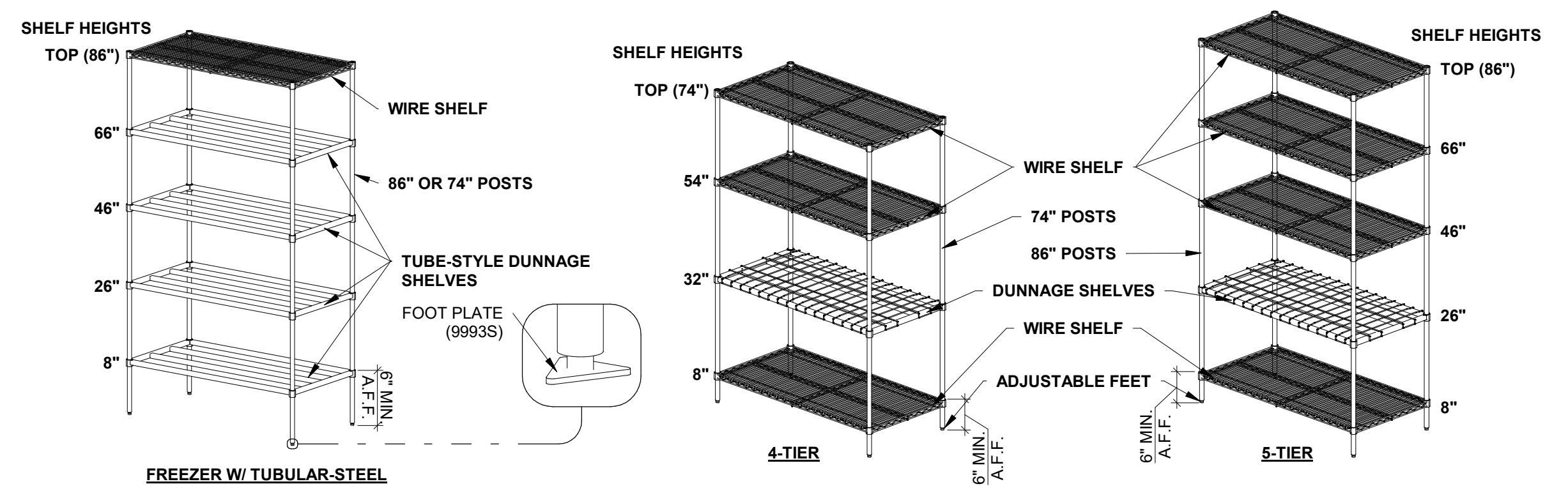
3 SHELVING INSTALL DETAIL: SUSPENDED
SCALE: N.T.S.



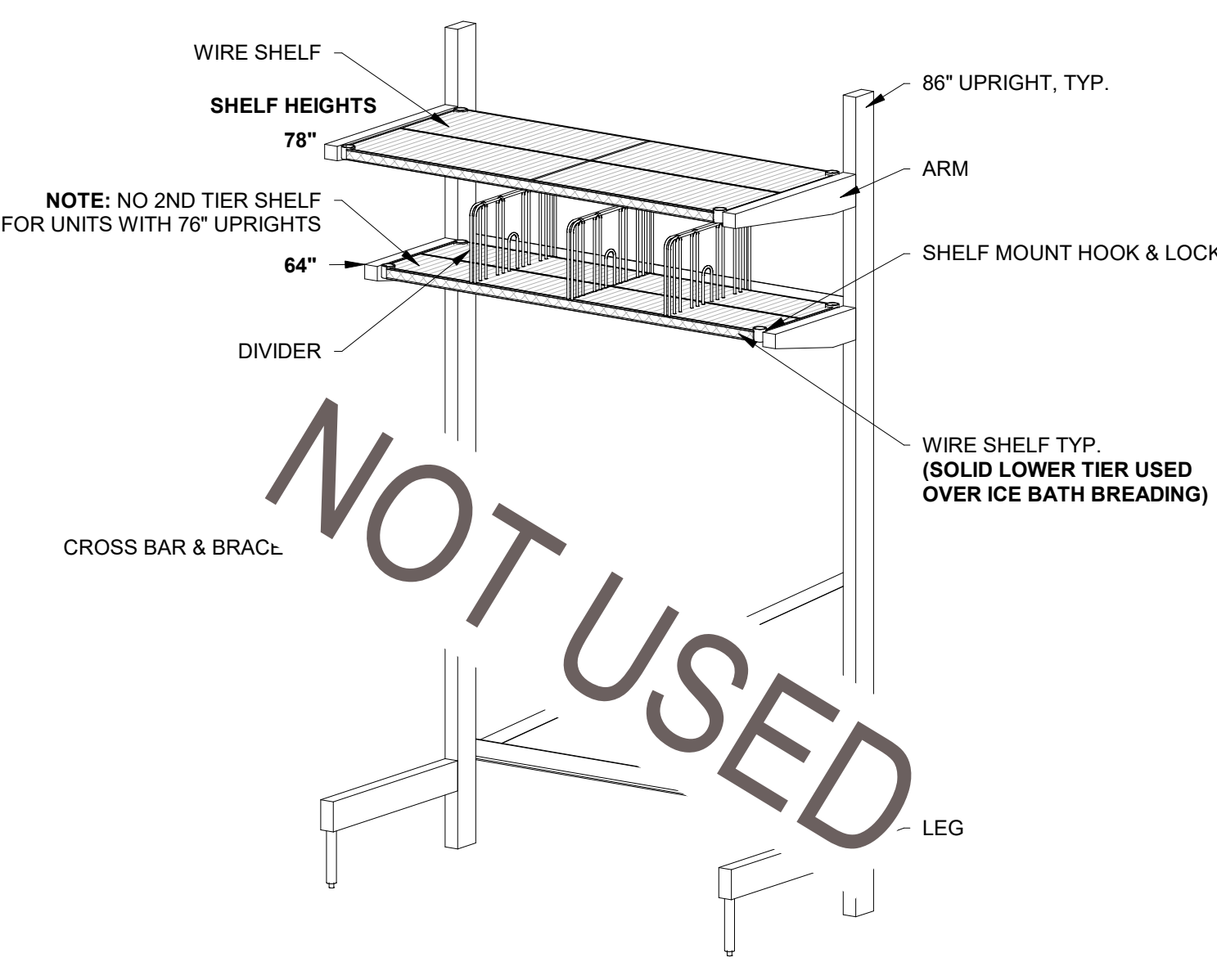
4 CANTILEVER - DRY STORAGE
SCALE: N.T.S.



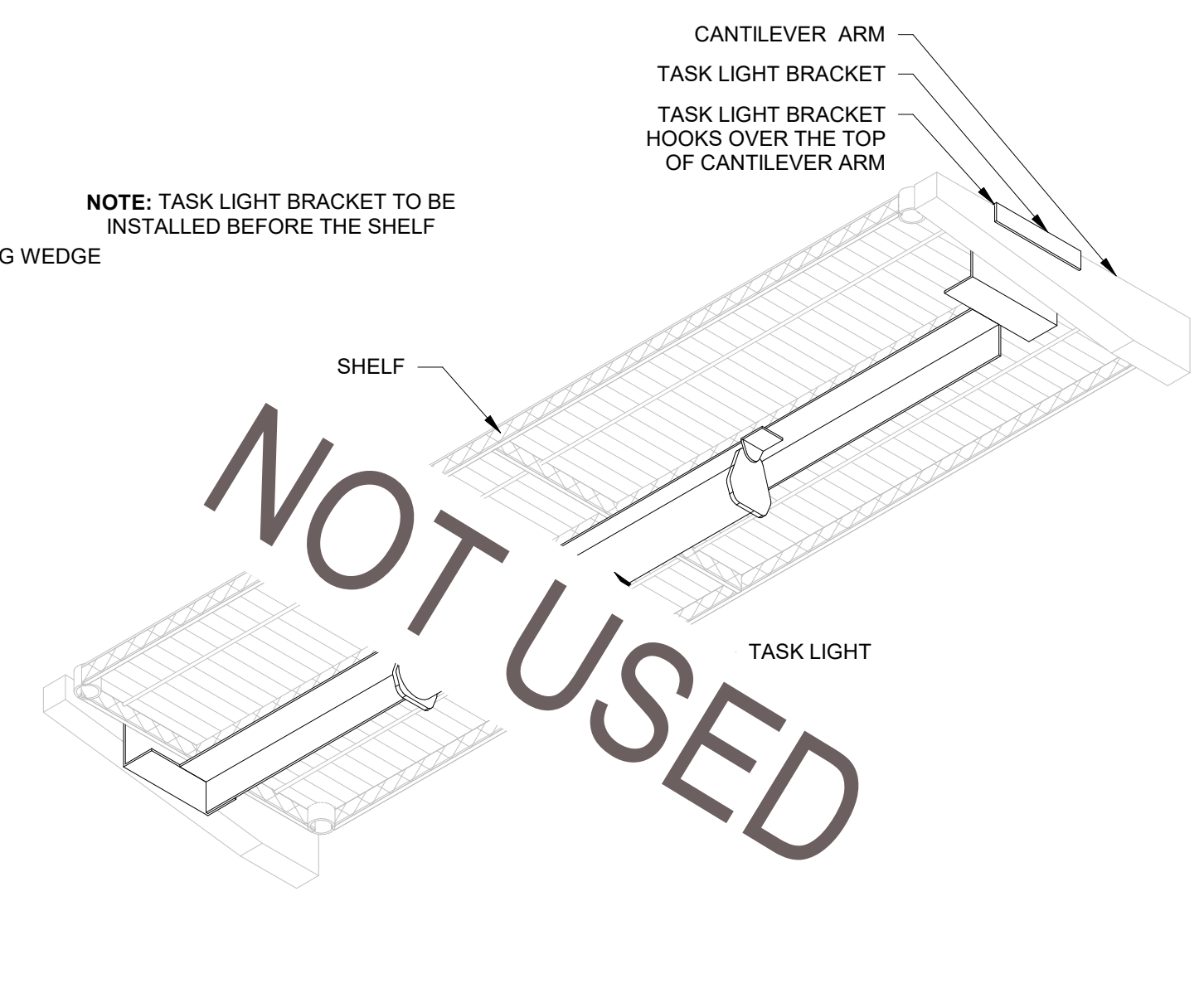
5 STAINLESS STEEL PANELS
SCALE: N.T.S.



6 SHELVING DETAIL: FLOOR SHELVES
SCALE: N.T.S.



7 CANTILEVER SHELVING - OVERHEAD
SCALE: N.T.S.



8 TASK LIGHT
SCALE: N.T.S.

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SHEET KITCHEN DETAILS

SHEET NUMBER
K-903

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80307-K-903-KITCHEN DETAILS



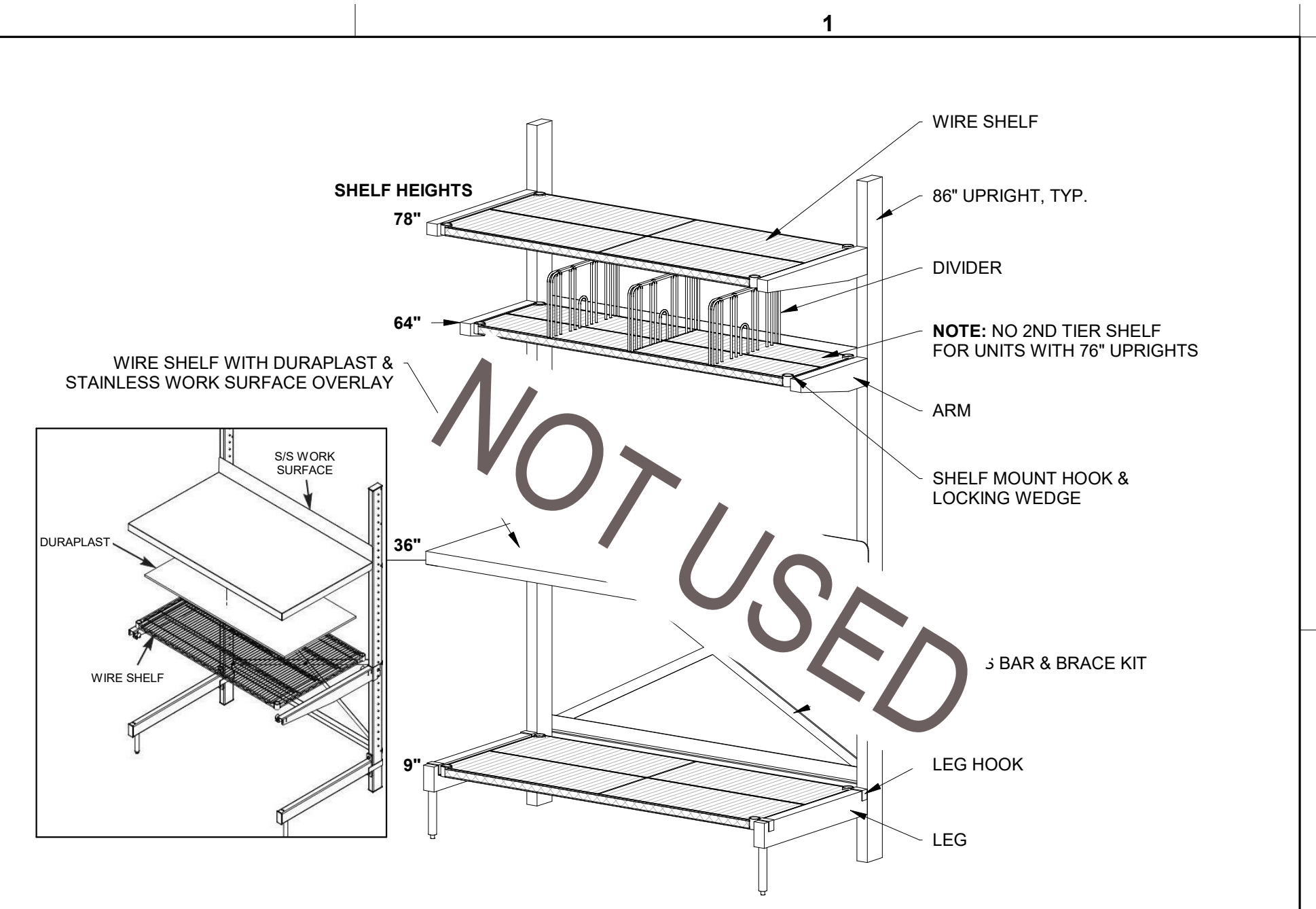
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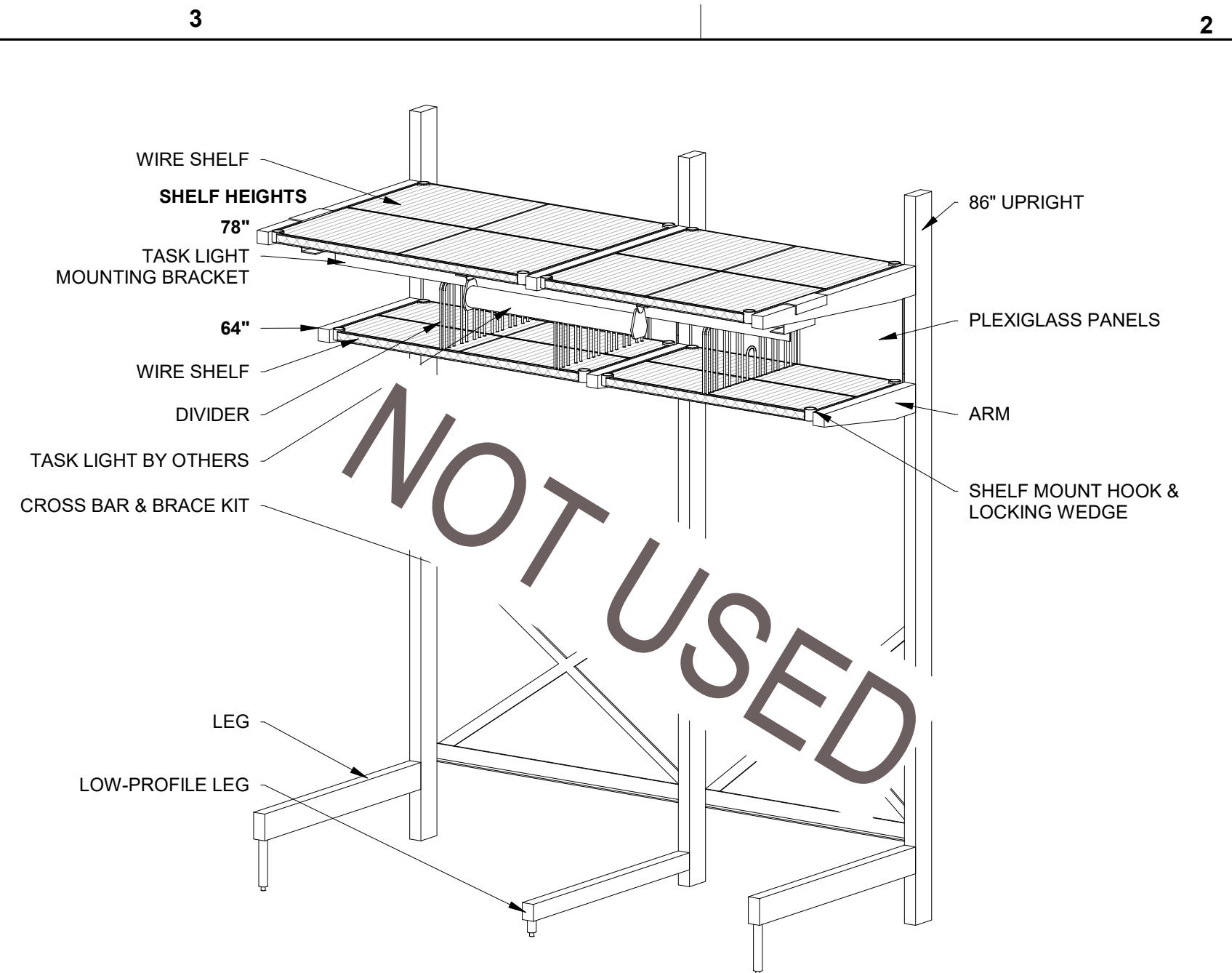


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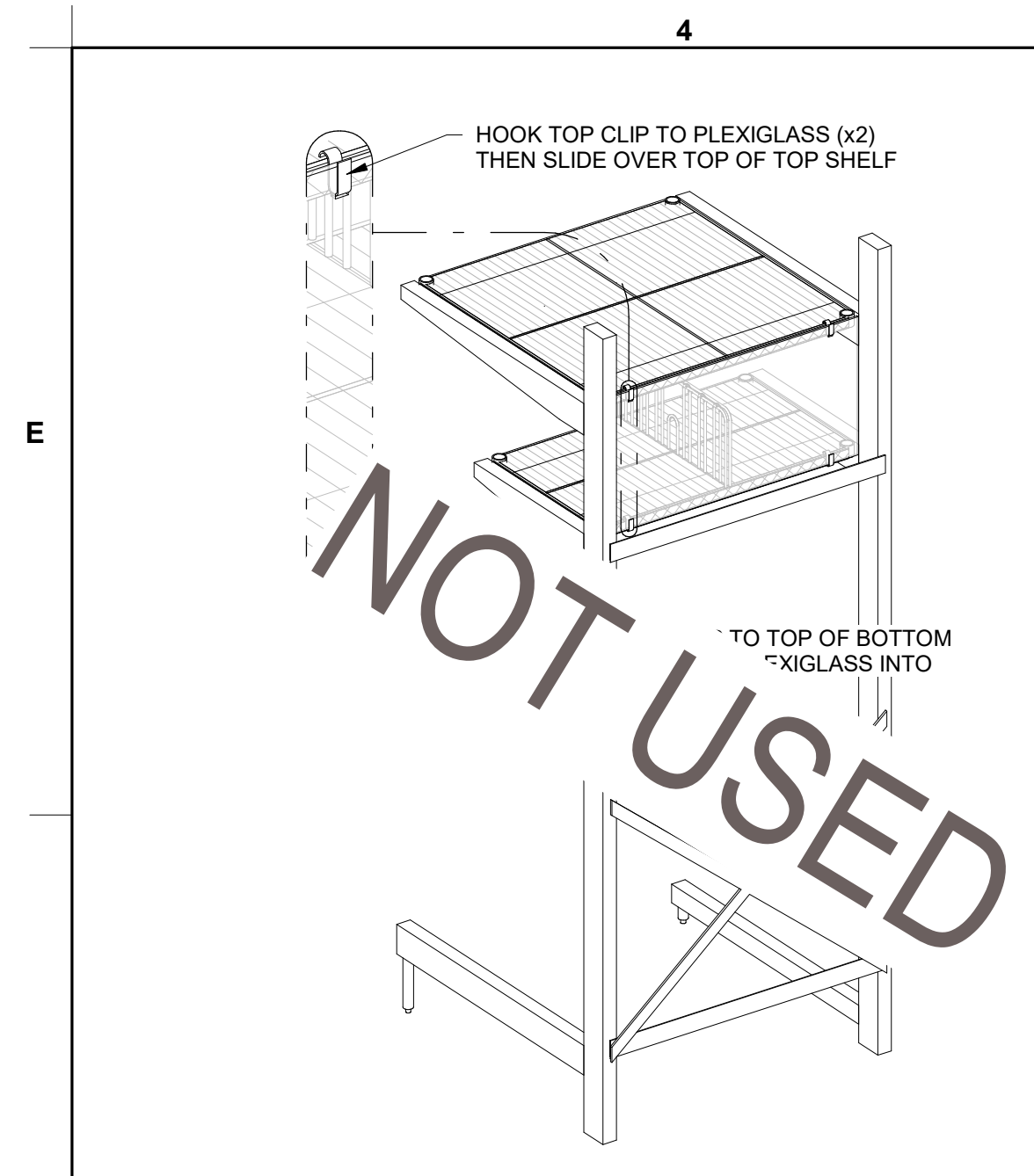
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LCV#80307
BUILDING TYPE / SIZE:
RELEASE: v8.22.11
REVISION SCHEDULE
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SHEET
KITCHEN DETAILS
SHEET NUMBER
K-904



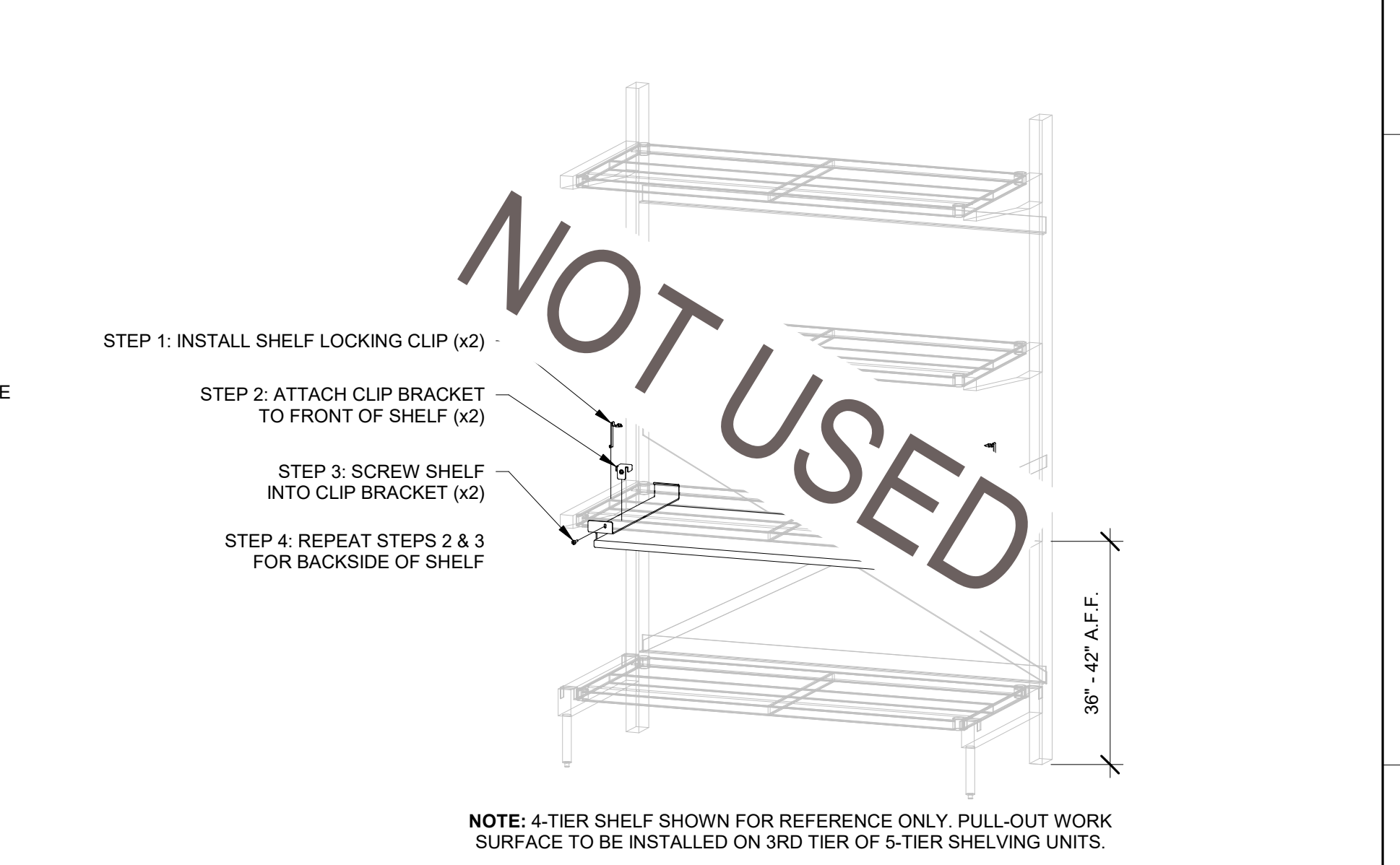
3 CANTILEVER SHELVING - WORK SURFACE
SCALE: N.T.S.



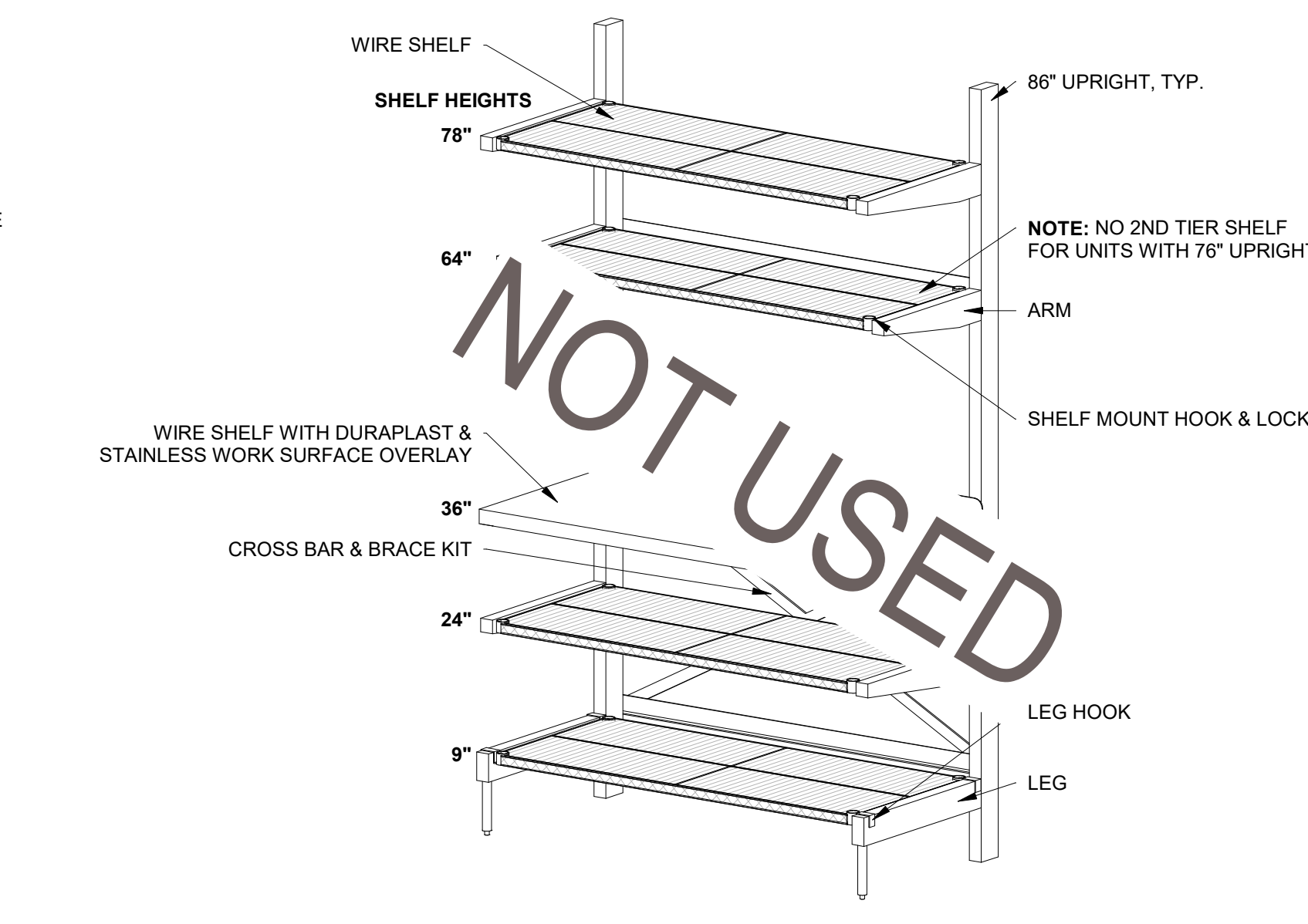
2 CANTILEVER SHELVING - VEGGIE PREP
SCALE: N.T.S.



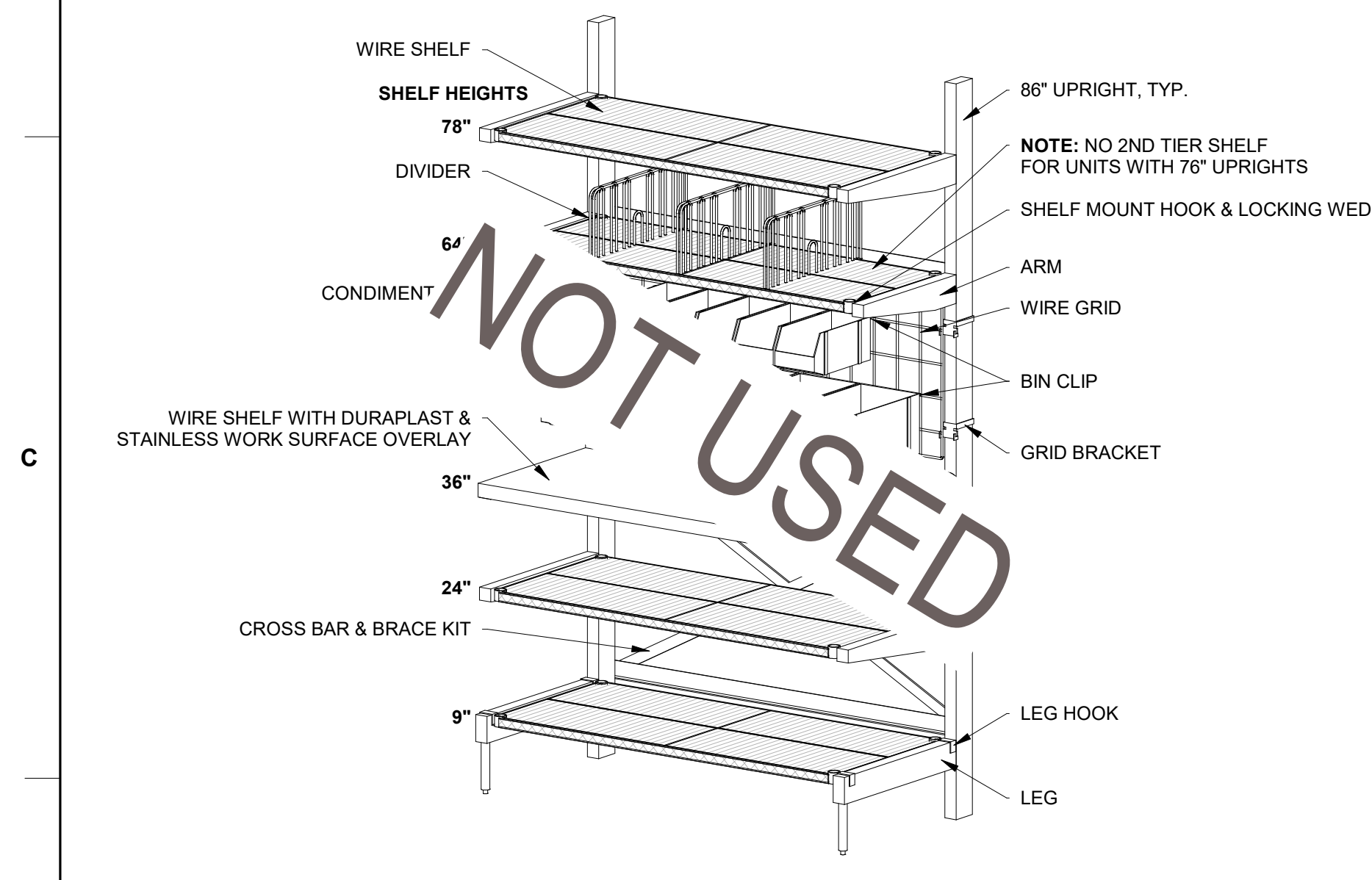
1 PLEXIGLASS PANELS
SCALE: N.T.S.



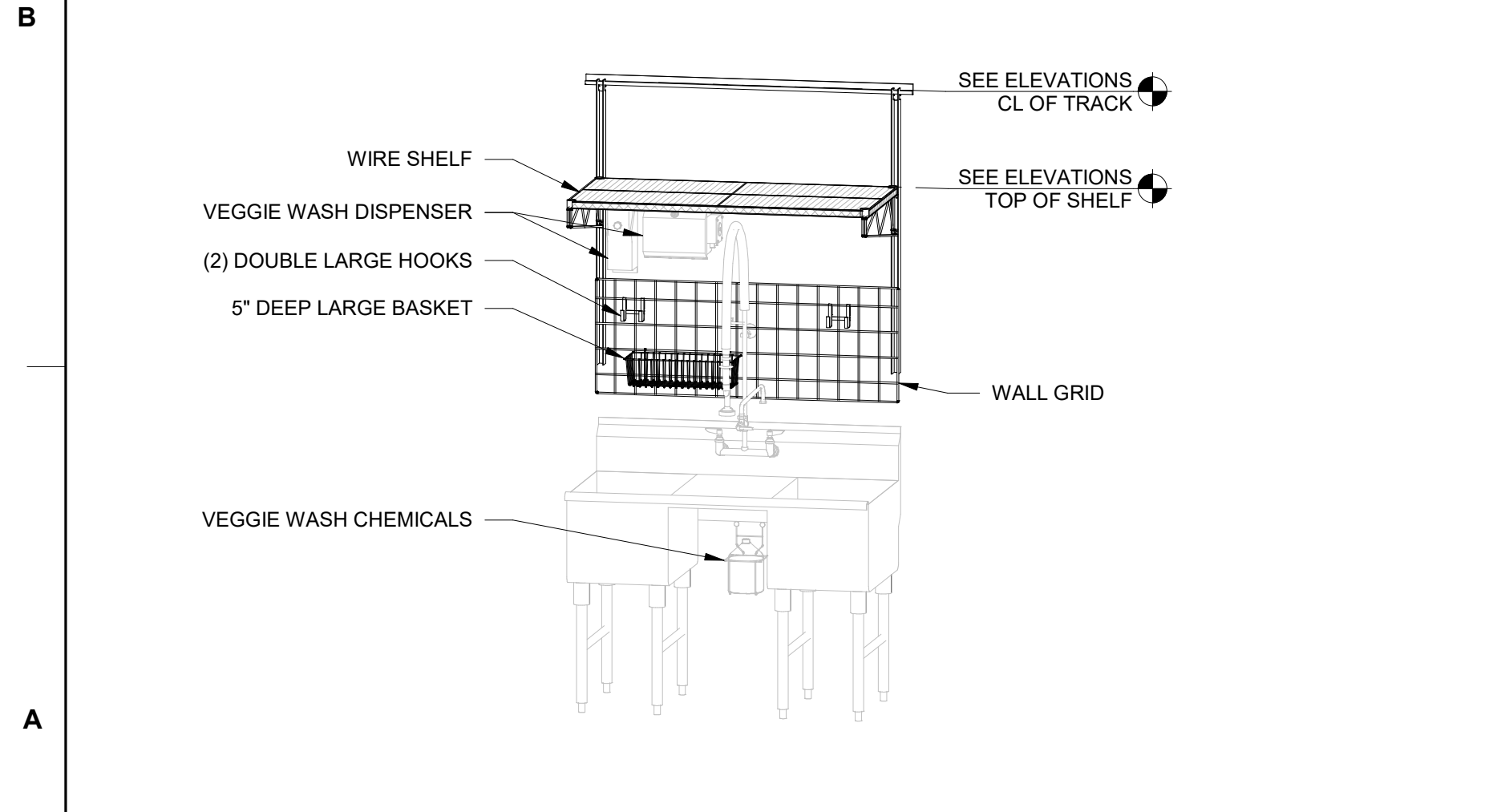
6 PULL-OUT SHELF
SCALE: N.T.S.



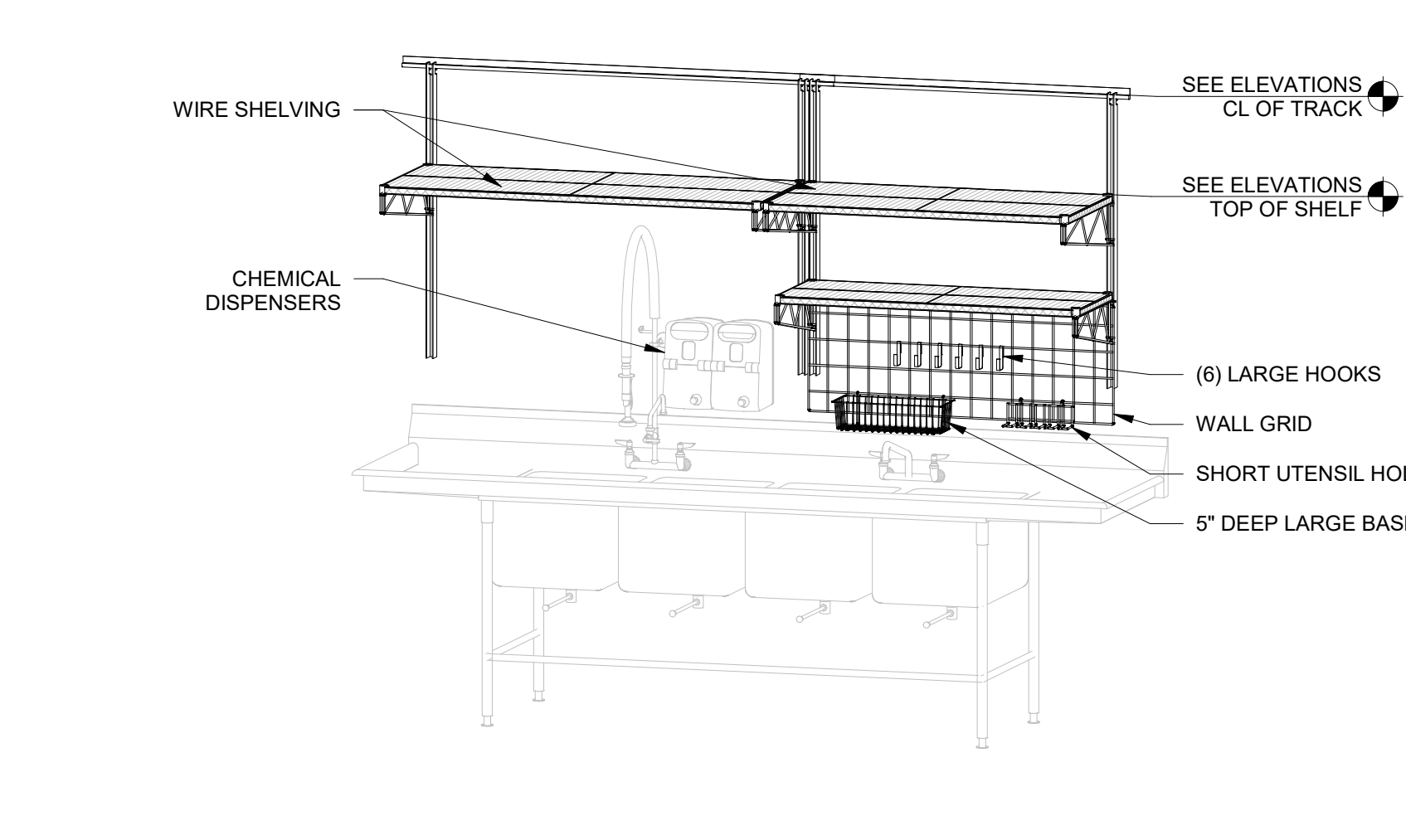
5 CANTILEVER SHELVING - DELIVERY WORKSTATION
SCALE: N.T.S.



4 CANTILEVER SHELVING - CATERING WORKSTATION
SCALE: N.T.S.



7 2-COMP VEGGIE PREP SINK SHELF & ACCESSORIES
SCALE: N.T.S.



8 4 COMP UTILITY SINK SHELVES & ACCESSORIES
SCALE: N.T.S.

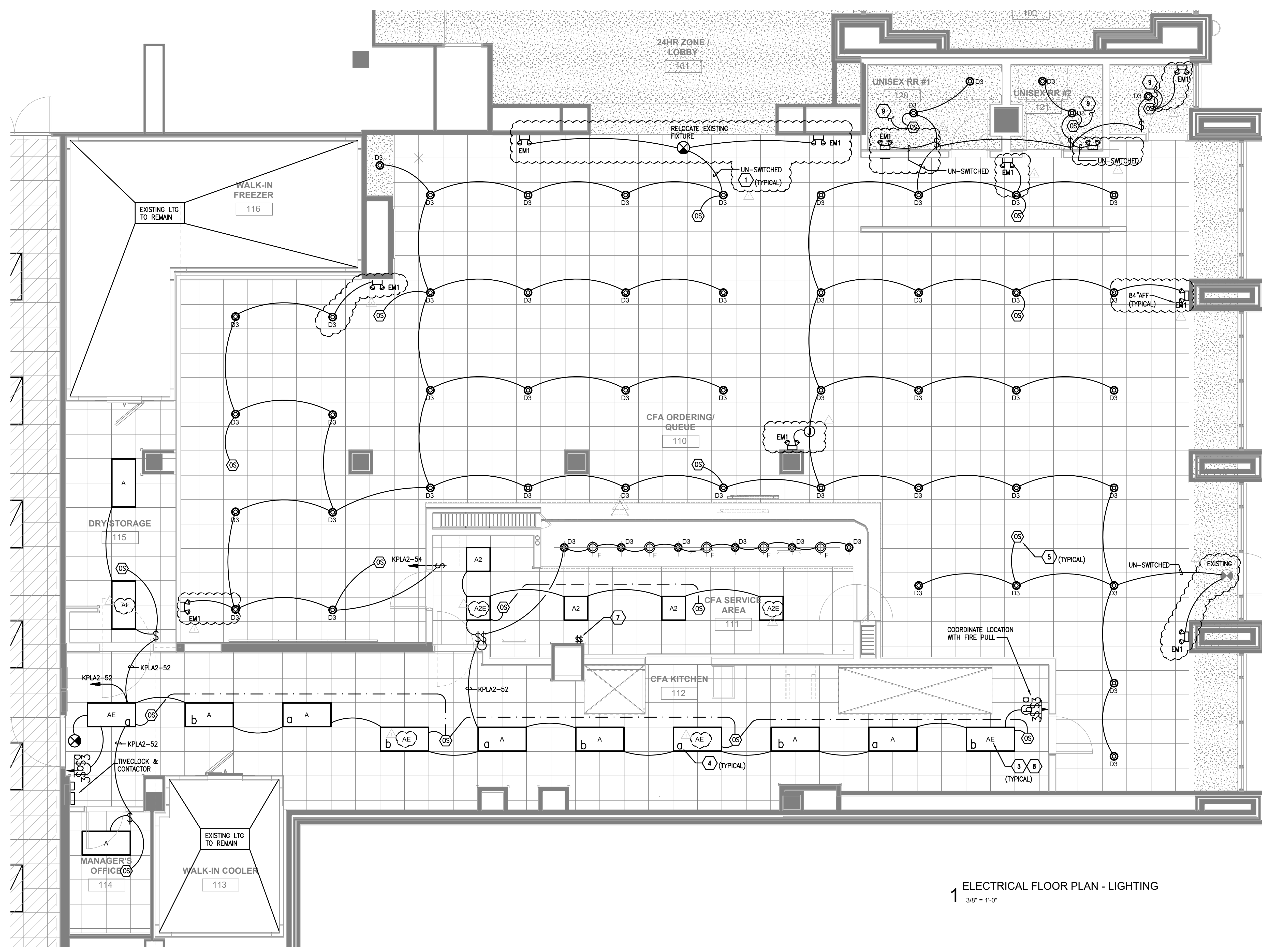


9 HAND SINK & ACCESSORIES
SCALE: N.T.S.

* INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY - SEE MANUFACTURER DOCUMENTATION FOR FINAL INSTALLATION INSTRUCTIONS AND OTHER DETAILS

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80307-K-904-KITCHEN DETAILS

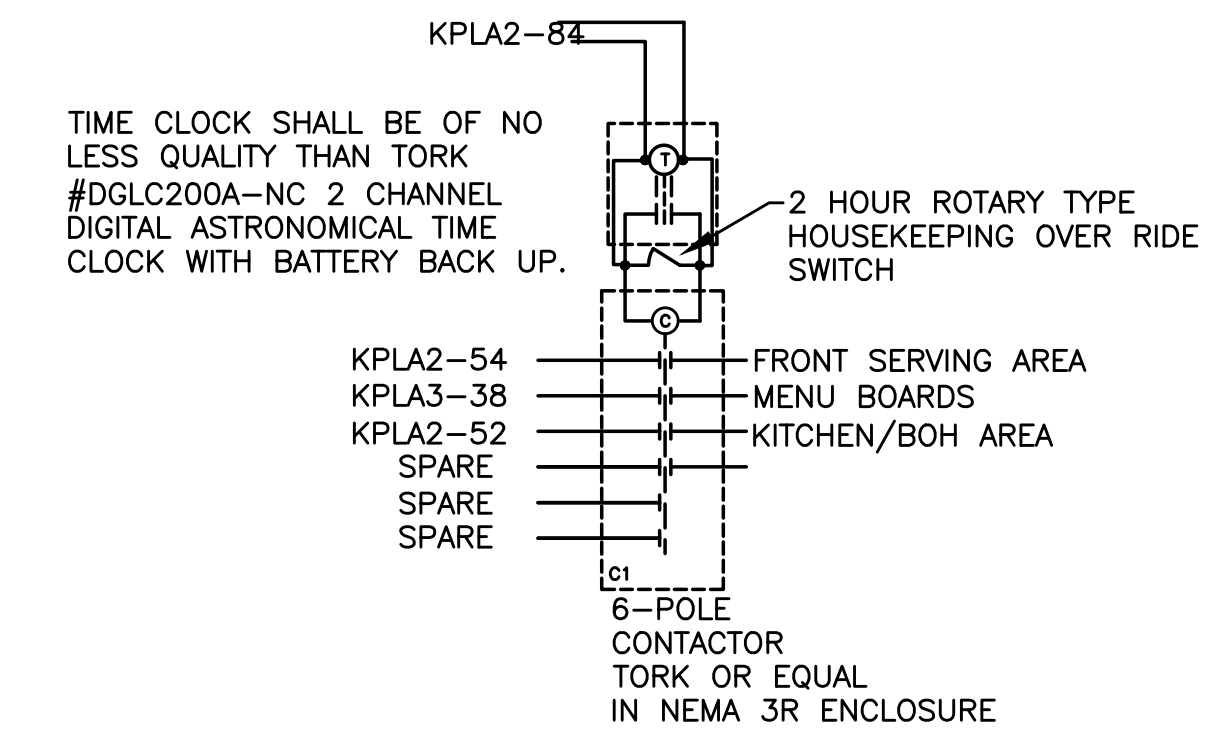
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 80307-A-201-FLOOR PLAN



1 ELECTRICAL FLOOR PLAN - LIGHTING
 3/8" = 1'-0"

- NOTES BY SYMBOL "X"**
1. PROVIDE ALL EMERGENCY FIXTURES AND EXIT SIGNS WITH CONTINUOUS, UN-SWITCHED, "HOT" CONDUCTOR FROM LIGHTING BRANCH CIRCUIT SERVING LIGHTING FIXTURES IN THE SAME AREA.
 2. ALL NORMAL LIGHTING CIRCUITS SHALL BE CONTROLLED VIA TIMELOCK CONTROLLED CONTACTOR (LXG20V02 IN NEMA 1 ENCLOSURE).
 3. INDICATES FIXTURE WITH BATTERY PACK AUXILIARY POWER. SEE NOTE 9 BELOW.
 4. LOWER CASE LETTER INDICATES SWITCH SERVING FIXTURE. SWITCH LOCATED IN OFFICE.
 5. INDICATES BASE BUILDING APPROVED OCCUPANCY SENSOR WITH HOLD FEATURE FOR LIGHTS INDICATED ON SAME SWITCH LEG. INTERLOCK ALL LIGHTING SENSORS AS REQUIRED FOR AREA SERVED. COORDINATE ALL REQUIREMENTS WITH UNIVERSITY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE, FUNCTIONING SYSTEM EVEN THOUGH EACH AND EVERY ITEM IS NOT NECESSARILY SHOWN OR NOTED. INTERLOCK SENSORS AS REQUIRED IN COMMON AREAS OF OCCURRENCE.
 6. DINING/PUBLIC AREA DOWN LIGHTING SWITCH. PROVIDE WITH ENGRAVED COVER PLATE READING 'FRONT AREA LIGHTING'.
 7. SERVING COUNTER SPECIALTY LIGHTING & SIGNAGE SWITCHES. SEE POWER PLAN.
 8. WIRE FIXTURE SUCH THAT ONLY LOSS OF NORMAL POWER ACTIVATES THE EMERGENCY POWER SUPPLY. UPON LOSS OF NORMAL POWER FIXTURE WILL AUTOMATICALLY TRANSFER TO EMERGENCY POWER SUPPLY AND BURN FULL BRIGHT REGARDLESS OF SWITCH POSITION. UPON RETURN OF NORMAL POWER, FIXTURE WILL AUTOMATICALLY RETURN TO SWITCH CONTROL AND BEGIN RECHARGING THE EMERGENCY POWER SUPPLY.
 9. TO EXHAUST FAN. REFER TO POWER PLAN E2.00. WIRE SUCH THAT WHEN LIGHTS ARE ON, FAN OPERATES AUTOMATICALLY. WHEN LIGHTS ARE OFF FAN IS OFF AUTOMATICALLY. COORDINATE LIGHT OFF DELAY TIME WITH OWNER.

- GENERAL NOTES**
- A. ALL EXIT AND EMERGENCY/EGRESS LIGHTING FIXTURES SHALL BE EQUIPPED WITH A 90-MINUTE BATTERY BACK-UP.
 - B. DRAWING IS FOR DESIGN INTENT ONLY. CONTRACTOR SHALL COORDINATE AND DETERMINE CONDUIT ROUTING WITH ALL OTHER TRADES AND OWNERS REP IN THE FIELD.
 - C. REFER TO ARCHITECTURAL DIMENSIONED DRAWINGS FOR EXACT FIXTURE LOCATIONS.
 - D. ROUTE ALL LIGHTING CIRCUITS THROUGH LIGHTING CONTROLS INDICATED ON PLANS AND PER DETAILS.
 - E. COORDINATE ALL INTERFACING REQUIREMENTS WITH THIS SCOPE OF WORK WITH BASE BUILDING SYSTEMS. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM EVEN THOUGH EACH AND EVERY ITEM NEEDED IS NOT NECESSARILY SHOWN OR NOTED.



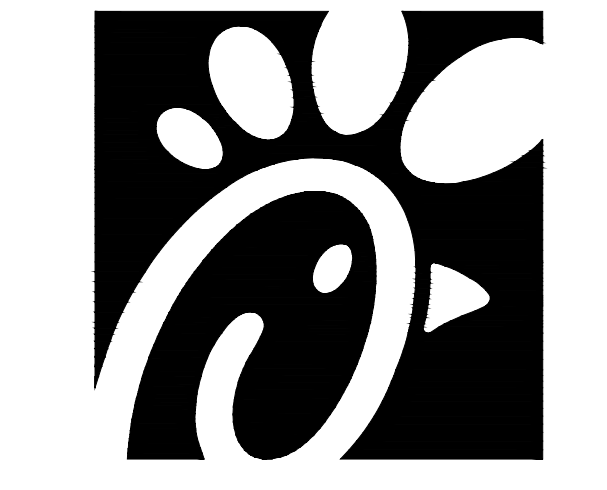
2 TIMECLOCK LIGHTING CONTROLS DIAGRAM
 NO SCALE

DETAIL NOTE:
 ELECTRICAL CONTRACTOR SHALL ADJUST CONTACTOR SIZE AND QUANTITY AS REQUIRED (PLUS 2 SPARE) FOR THIS PROJECT. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NECESSARY COMPONENTS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. LOCATE ON/OFF/AUTO SWITCH NEXT TO OR INSIDE CONTACTOR ENCLOSURE.

PROPRIETARY LIGHTING FIXTURE SCHEDULE

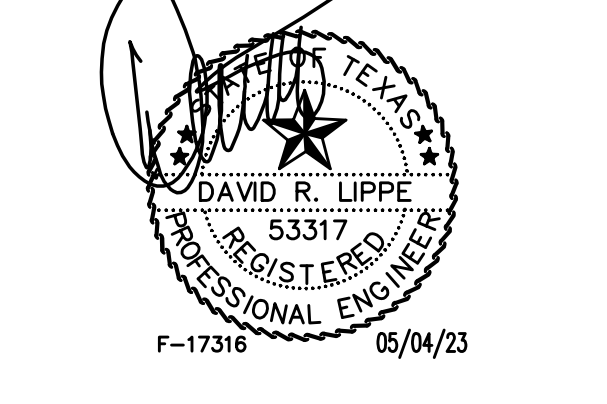
TO BE PURCHASED THROUGH ACCUSERV OR VILLA LIGHTING

TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	LAMP	WATTAGE	MOUNTING	COMMENTS	QTY.
A	COOPER	24FP6440C	2'X4' LED FLAT PANEL RATED 6611 LUMENS, 4000K COLOR TEMP	LED	59 W	RECESSED		91
AE	COOPER	24FP6440C-EL14W	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	LED	14 W	RECESSED		4
A2	Cooper Lighting	22FP LED	General LED Panel	LED	39 W	RECESSED		3
A2E	Cooper Lighting		SAME AS 'A2' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	LED	39 W	RECESSED		2
B1	ILLUMITEX	OS1-24-4-DW-6-35-U-WH-W	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG	LED	35 W	SURFACE		1
D3	COOPER	PD6-20-D010B-PDM 6B-30-61VC	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP	LED	19 W	RECESSED		70
D3E	COOPER	PD6-20-D010B-IEM-PDM6B-30-61VEMC	SAME AS D3 EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH	LED	19 W	RECESSED		1
F	MEYDA	30894-8 (144638)	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP	LED	12 W	CEILING		15
P	MEYDA	142776	31" DIA PEACH BASKET PENDANT WITH BTM LED AT 6'-3" AFF ABV TABLE, 7'-6" OTHERWISE	LED	22 W	PENDANT		1
U	BESA LIGHTING	BES00298-060	MONO-POINT PENDANT, RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF	LED	12 W	PENDANT		1
EM1	EATON	SURELITES #AP2SQLED	90MIN EMERGENCY LIGHT, WHITE FINISH, (2) 1.0W HEADS	LED	2.0 W	WALL		10



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LCV#80307
 BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE

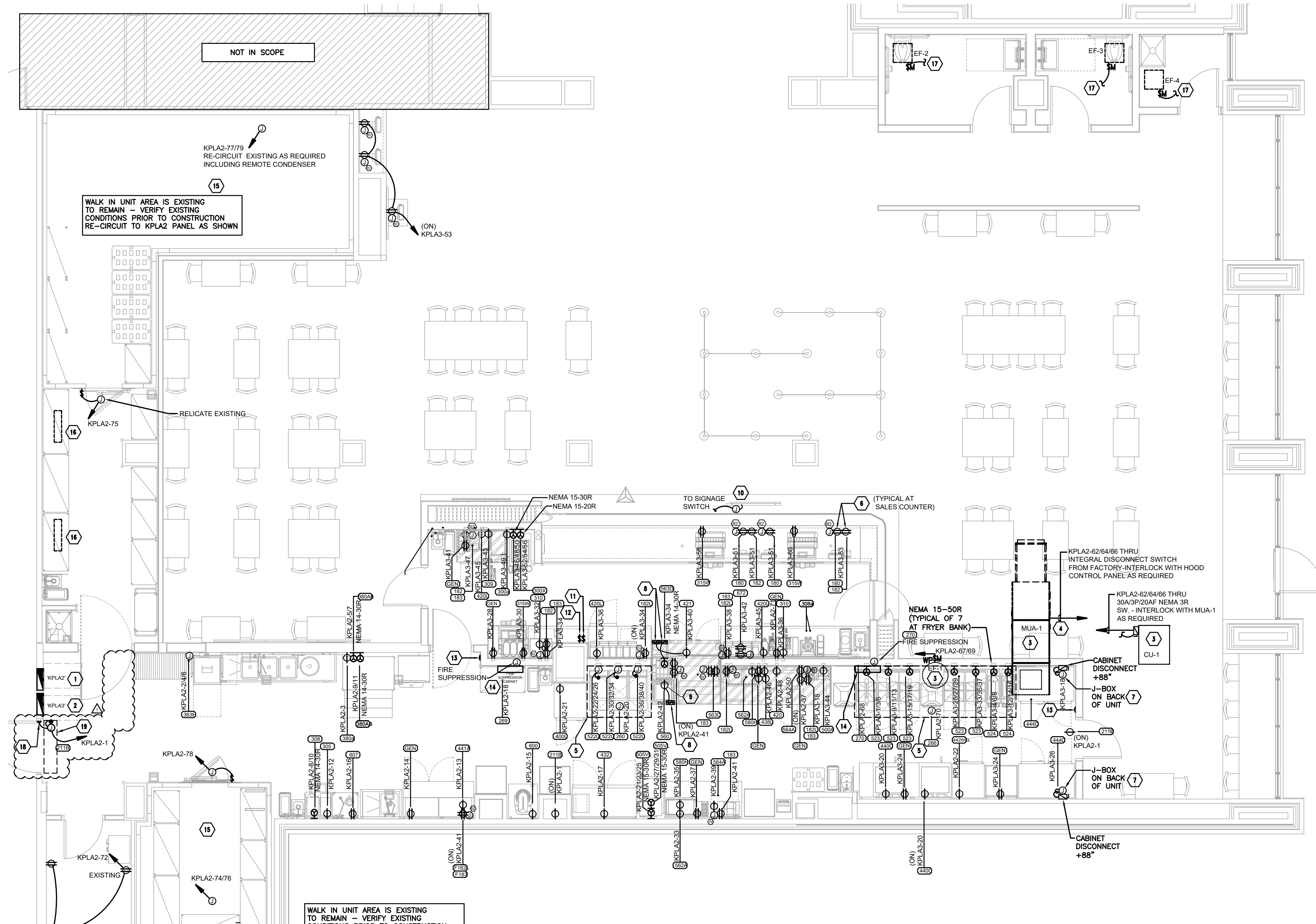
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1	05/05/2023	PLAN REVIEW REV

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22.MAY.021
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 SHEET ELECTRICAL FLOOR PLAN - LIGHTING
 SHEET NUMBER
E1.00



1 ELECTRICAL FLOOR PLAN - POWER
 3/8" = 1'-0"

- NOTE:
 REFER TO THE KEC SHEETS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO CONSTRUCTION.
- NOTE:
 ALL KITCHEN AREA RECEPTACLES ARE NEMA 5-20R GFCI TYPE UNLESS OTHERWISE NOTED.
- NOTE:
 WORK SHOWN IS FOR NEW OR RELOCATED EQUIPMENT. ALL OTHER EQUIPMENT SHOWN IS EXISTING TO REMAIN. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS PRIOR TO CONSTRUCTION.

- NOTES BY SYMBOL 'X'**
- EXISTING PANEL BOARD TO BE REPLACED WITH NEW. REFER TO PANEL BOARD SCHEDULES.
 - NEW PANEL BOARD 'KPLA2'. REFER TO PANEL BOARD SCHEDULES.
 - APPROXIMATE LOCATION OF ROOF MOUNTED EQUIPMENT. COORDINATE WITH MECHANICAL AND UNIVERSITY CONSTRUCTION COORDINATOR PRIOR TO CONSTRUCTION.
 - CIRCUIT TO MAU-1 TO STUB UP THRU ROOF CURB AND UP INTO UNIT. REFER TO HOOD PACKAGE FOR ALL REQUIREMENTS.
 - INDICATES OUTLINE OF NEW HOOD. REFER TO MECHANICAL FOR HOOD PACKAGE INFORMATION.
 - INDICATES HORIZONTALLY MOUNTED RECEPTACLES IN MILLWORK FOR POINT OF SALES EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH SYSTEM PROVIDER PRIOR TO CONSTRUCTION. PROVIDE POS CIRCUITS WITH DEDICATED GROUND AND NEUTRAL WIRES. DO NOT SHARE OR 'Daisy Chain' THESE WIRES WITH ANY OTHER CIRCUITS. POS COUNTER CIRCUITS TO ALL RUN IN MILLWORK VIA CONDUIT DROP PER PLAN.
 - SURFACE MOUNTED ON TOP REAR OF CABINET. CONNECTED TO DISCONNECT WITH LIQUID TIGHT FLEXIBLE CONDUIT.
 - PROVIDE HORIZONTAL SWITCH MOUNTED ON FRONT PANEL. REFER TO INTERIOR ELEVATIONS ON KEC DRAWINGS.
 - MOUNT ON REAR OF FIXED CABINET #105.
 - ALL EXISTING SIGNAGE TO REMAIN.
 - NEW SWITCH +42" AFF. PROVIDE WITH ENGRAVED COVERPLATE READING 'SIGNS'
 - NEW SWITCH +42" AFF FOR MENU BOARDS. PROVIDE WITH ENGRAVED COVERPLATE READING 'MENU BOARDS'. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH IN.
 - INDICATES HOOD REMOTE MANUAL FIRE PULL. COORDINATE REQUIREMENTS WITH HOOD PROVIDER PRIOR TO CONSTRUCTION.
 - INDICATES ANSUL CABINET LOCATION. COORDINATE REQUIREMENTS FOR NEW ANSUL CABINET WITH HOOD PROVIDER PRIOR TO ROUGH IN.
 - EXISTING WALK IN UNIT CIRCUITING TO BE REMOVED BACK TO PANEL OF ORIGIN AND BREAKERS LABELED 'SPARE' AND BE PLACED IN 'OFF' POSITION.
 - EXISTING EVAPORATORS THIS AREA TO BE REMOVED AND RETURNED TO OWNER. EXISTING CIRCUITING TO BE REMOVED BACK TO PANEL OF ORIGIN. LABEL BREAKERS 'SPARE' AND PLACE HANDLES IN 'OFF' POSITION.
 - INTERLOCK EXHAUST FAN WITH OCCUPANCY SENSOR CONTROLLED LIGHTING FIXTURES.
 - INDICATES DOOR FRAME MOUNTED MUSHROOM CONTACT SWITCH FOR AIR CURTAIN. COORDINATE ALL REQUIREMENTS WITH AIR CURTAIN MANUFACTURER PRIOR TO INSTALLATION.
 - INDICATES CEILING MOUNTED AIR CURTAIN. REFER TO KEC EQUIPMENT SCHEDULE FOR AIR CURTAIN SPECIFICATION.

- GENERAL NOTES**
- PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY CARD INDICATING "AS INSTALLED" INFORMATION IN EACH PANEL BOARD ON INSIDE OF ACCESS DOOR IN A CLEAR PLASTIC PROTECTION SLIP AFTER CONSTRUCTION. HAND WRITTEN CARDS ARE NOT ACCEPTABLE.
 - COORDINATE EXACT CONDUIT ROUTING W/ ALL OTHER TRADES AND POINTS OF TERMINATION IN THE FIELD. COORDINATE WITH EQUIPMENT PROVIDER/OWNER/LANDLORD. NOTIFY ARCHITECT & ENGINEER OF ANY CONFLICT OR DISCREPANCY.
 - CONTRACTOR SHALL COORDINATE THE EXACT POWER, WIRING & FINAL CONNECTION REQUIREMENTS FOR ALL KITCHEN EQUIPMENT BEFORE ROUGH-IN WITH RESPECTIVE EQUIPMENT PROVIDER AND MAKE ALL REQUIRED FINAL CONNECTIONS.
 - VERIFY RECEPTACLE NEMA CONFIGURATION FOR EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. NOTIFY ARCH. & ENGINEER OF ANY CONFLICT OR DISCREPANCY.
 - CONTRACTOR SHALL COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL ELECTRICAL DEVICES SERVING KITCHEN EQUIPMENT WITH MANUFACTURER'S RECOMMENDATION & ARCHITECT'S DETAILS PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL PROVIDE SHUNT-TRIP PROTECTION FOR ALL EQUIPMENT UNDER KITCHEN HOODS. HOOD FIRE SUPPRESSION SYSTEM SHALL ACTIVATE ALL UNDER HOOD SHUNT-TRIPS AND GAS SOLENOID VALVES.
 - ALL RECEPTACLES WITHIN THE KITCHEN AREA SHALL BE GFCI TYPE. PROVIDE A GFCI CIRCUIT BREAKER IF RECEPTACLE IS NOT READILY ACCESSIBLE. SEE PANEL SCHEDULES FOR MORE DETAILS.
 - ALL 120V, 20A RECEPTACLES WITHIN 6 FEET FROM THE OUTSIDE EDGE OF ALL NET SIGNS SHALL BE GFCI-PROTECTED PER NEC 210.8.
 - PERMANENTLY CONNECTED APPLIANCES RATED OVER 300VA OR 1/9 HP SHALL HAVE A DISCONNECT MEANS WITHIN SIGHT OR CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 422.30 & 422.31(B). PROVIDE NECESSARY DISCONNECTING MEANS AS REQUIRED.
 - REFER TO K SERIES SHEETS FOR ROUGH IN INFORMATION AND FOR ALL FINAL CONNECTION REQUIREMENTS FOR ALL OUTLETS.
 - POS TERMINAL AND RECEIPT PRINTER OUTLETS TO BE RECESSED IN MILLWORK. E.C. TO PROVIDE WHIP FROM ADJACENT FULL HEIGHT WALL.
 - ALL OUTLETS TO HAVE STAINLESS STEEL COVER PLATES. OUTLETS TO BE WHITE UNLESS IN (T-2) STAINLESS TILE. (T-2) WALL TO BE GREY OUTLETS. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
 - CONDUITS OR RACEWAYS ENTERING OR LEAVING THE WALK IN COOLER/FREEZER UNITS SHALL BE SEALED BEFORE EXIT AND ENTRY POINTS WITH A SUITABLE, PLUMBABLE COMPOUND TO PREVENT THE FORMING OF CONDENSATION PER NEC 300.7

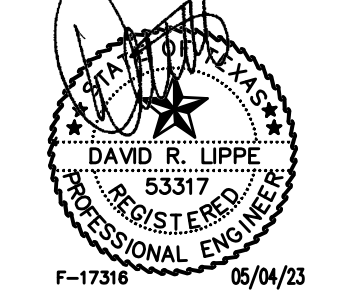


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CONSTRUCTION DOCUMENTS

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 SHEET
 ELECTRICAL FLOOR PLAN - POWER
 SHEET NUMBER

E2.00

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 80307-A-201-FLOOR PLAN

KITCHEN EQUIPMENT PROPRIETARY SCHEDULE (ITEMS SUPPLIED BY TRIMARK STRATEGIC)

CONTACT CFA LICENSING TEAM AT (800) 304-0849 OPTION 3 OR CFA.LICENSING@TRIMARKUSA.COM AT TRIMARK STRATEGIC TO ORDER EQUIPMENT - SOME EQUIPMENT HAS A 10 - 12 WEEK LEAD TIME

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL													ITEM NO.	REMARKS	
				ELECTRICAL				PLUMBING				MECHANICAL							
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW	ROUGH-IN			
105b	40	CONDIMENT BIN (6-12x10)	INTERMETRO MODEL #EE2146A															105b	
105c	8	CONDIMENT BIN (6-14x15)	INTERMETRO MODEL #D77557Q															105c	
117A	1	TEA DISPENSER SHELF	HAK MODEL #CF7A09															117A	USE (2) 18-8 SS MCMMASTER-CARR 92351A552 HEX HEAD LAG SCREWS PER 3/16" PRE-DRILLED HOLE STUD ONLY, MIN 2" APART
121	1	WALL MOUNTED SOUP PACKAGING HOLDER	FRANKE MODEL #27807101															121	SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
122A	1	PACKAGING STORAGE SYSTEM	FRANKE MODEL #27801283															122A	
122B	1	XL MENU TAB PACKAGING HOLDER	FRANKE MODEL #27807101															122B	
200	1	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS MODEL #TCN040-SW															200	
200A	3	SLIM LINE TEA DISPENSER (SHORT)	WILBUR CURTIS MODEL #TCN14040															200A	LOCATED ON ITEM #117A - ORDER (2) #TCN1404-SW AND (1) #TCN1404-US
200U	1	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS MODEL #TCN040-US															200U	
300a	1	MILKSHAKE BASE DISPENSER	KANPAK MODEL #0CE211 CFA-A	120	1		2.00			5-15P								300a	INCLUDES PANEL FOR USE WITH DOUBLE WALL PAPER CUPS
300b	2	SINGLE DISPENSER HOLDER	FRANKIE MODEL #K2504WF															300b	MOUNTED ON ITEM #300A - FRONT MOUNT
300d	1	TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS MODEL #7201-1NCH															300d	MOUNTED ON ITEM #300X - LEFT HAND MOUNT - ORDER WITH 3FR1A12
300f	1	DOUBLE SLIMLINE COOKIE DISPENSER	SERVER MODEL #88847															300f	MOUNTED ON ITEM #300d
300K	1	DOUBLE BARREL ICE CREAM MACHINE	TAYLOR MODEL #078338WDC (AIR COOLED)	208	3		19.00/15.00	1.50/1.50		15-30P/15-20P								300K	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
301C	2	CUP DISPENSER & LID ORGANIZER	WIREWORKS MODEL #C2504WF															301C	
305	1	TEA BREWER	WILBUR CURTIS MODEL #TCT1-10000	120	1	1.650	13.80				3/8"					P-24		305	QUICK DISCONNECT HOSES PROVIDED BY CLARK
308	1	SINGLE COFFEE MAKER	WILBUR CURTIS MODEL #TP2510A3140	208	1	4.000	19.20				3/8"					P-24		308	QUICK DISCONNECT HOSES PROVIDED BY CLARK
308a	2	COFFEE WARMER	WILBUR CURTIS MODEL #TFT1-G3040															308a	MOUNTED ON ITEM #308b - ORDER (2) ADDITIONAL WARMERS (NOT SHOWN ON DRAWINGS)
308b	1	COFFEE WARMER STAND	CRATHCO MODEL #CS-1-2D1006															308b	
309	1	SINGLE LEMONADE BUBBLER	CRATHCO MODEL #CS-1D-16	120	1		3.60	0.10		5-15P								309	ORDER (1) #3CRA015 BOWL KIT AND (1) #3CRA017 BASE PER BUBBLER
310	2	DOUBLE LEMONADE BUBBLER	CRATHCO MODEL #CS-2D-16	120	1		8.50	0.10		5-15P								310	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
350	1	WATER FILTRATION SYSTEM - TYPE A	SELECTO SCIENTIFIC T1 FILTER SYSTEM MODEL #80-8203CFB-PEX								3/4"						P-5	350	SEE DETAILS PAGE K-901 FOR TYP
380a	1	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	120	1	0.0096				5-15P								380a	WITH SIDE MOUNTING BRACKETS
380AB	2	ICE MACHINE WITH RIDE SYSTEM (AIR-COOLED)	FOLLETT MODEL #HMC1410AB5	208	1	3.100	14.00			6-20P		1/2"	3/4"			P-23		380AB	SELF-CONTAINED UNIT - MOUNTED TO WALL - ORDER WITH #00597098 BRACKET - PROVIDED WITH 6 FT CORD
384D	1	48 INCH SINGLE DOOR ICE DEVICE WITH SMART CART	FOLLETT DEV1300SG-48															384D	ORDER WITH SMARTCART 75 ICE TRANSPORT CART WITH THREE REMOVABLE TOTES ICE CARRIERS, PLASTIC ICE SCOOP, AND PADDLE/RAKE TOOL SET WITH HANGING BRACKET
400L	1	REACH-IN FREEZER (30" WIDE)	TRAULEN MODEL #RL132WUT-FHS	115	1	1.100	9.40			5-15P								400L	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 7/16 IN CASTERS
420	1	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULEN MODEL #UH127-ZCF	115	1	0.564	4.70	0.2		5-20P								420	HINGE RIGHT - ORDER ON 4 IN CASTERS
420L	3	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULEN MODEL #UH127-ZCF	115	1	0.564	4.70	0.2		5-20P								420L	HINGE LEFT - ORDER ON 4 IN CASTERS
421	1	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAULEN MODEL #UH146-ZCF-LR	115	1	0.766	6.30	0.20		5-15P								421	ORDER ON 4 IN CASTERS
432	1	DOUBLE REFRIGERATED WORK TABLE	TRAULEN MODEL #UH160-ZCF-LR	115	1	0.766	6.3	2		L5-20P								432	E.C. TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6" CASTERS WITH BACKSPASH TOP
438L	1	33" COLD RAIL	RANDELL MODEL #CR0309M-CFA	115	1	0.800	7.10	0.25		5-15P								438L	COMPRESSOR ON LEFT - SUPPLIED WITH 9 FT CORD AND PLUG
440C	2	ICE BATH BREADING TABLE	DUKE MODEL #BSTA-120-US	120	1		1.00			5-15P								440C	10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441A	1	REFRIGERATED PREP TABLE	TRAULEN MODEL #T5-060HT	115	1	9.0	1/2			L5-15P								441A	PROVIDED WITH TWIST LOCK PLUG - ORDER ON 4" CASTERS - INCLUDES PAN PACKAGE
442WC1	1	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	TRAULEN MODEL #RH132W-ZCF17	115	1		7	0.333		5-15P								442WC1	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
444D	2	DOUBLE THAWING CABINET (52" WIDE)	TRAULEN MODEL #RE232N-ZCF02	115	1		16.00	0.5		DIRECT CONNECTION								444D	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
500A	1	VERTICAL CONTACT TOASTER	ROUNDUP MODEL #VGT-2	120	1	1.80	15.00			5-15P								500A	
505VA	1	VECTOR OVEN STACKING KIT	ALTO-SHAAM MODEL #S020452															505VA	
505VL	2	VECTOR OVEN	ALTO-SHAAM MODEL #VMC-H3H 106226	208	3	7.90	22.00			15-30P								505VL	HINGE LEFT
522L	3	SINGLE OPEN FRYER	HENNY PENNY MODEL OFE-321.05 + 3PSE003	208	3	22	61			DIRECT CONNECTION								522L	6X6 J-BOX; ORDER WITH 3PSE003 AND 3ME011
523	5	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	208	3	13.500	38.00			15-50P								523	PROVIDED WITH 6 FT CORD AND PLUG
524	2	DUAL SIDE CLAMHELL GRILL	GARLAND MODEL #CXP9B12	208	3	3.3	24.128/23.31			15-50P								524	PROVIDED WITH 9 CORD & PLUG
560	1	FRY HOLDING STATION	BKI MODEL #FW-15B (312007F)	120	1	1.90	15.4			5-20P								560	ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT
560a	1	FRY CARTON DISPENSER ASSEMBLY	SAN JAMAR MODEL #WFD10 AND #WFD230															560a	PROVIDED WITH 6 FT CORD AND PLUG
562A	2	HIGH DENSITY HOT HOLDING TOWER	FRANKE MODEL #1801713	120	1	1.80	16.00			5-20P								562A	CORD EXITS RIGHT - 6" CORD AND PLUG
563D	1	DOUBLE TIER SANDWICH SLIDE 38 INCH	841 MODEL #ZTSM-3824R	120/208	1	1.73	9.18			14-20P								563D	ORDER WITH LIDS/TRAY SEALS, AMBER PANS, & FALSE BOTTOMS
564A	2	VISUAL HOT HOLDING CABINET (2x2)	MERCO MODEL #MHC22SNT1T	120	1	0.68	5.5			5-15P								564A	
570	1	COOLING RACK	HAK MODEL #CFA104															570	
580H	2	VISUAL HOT HOLDING CABINET (5x2)	MERCO MODEL #MHC22SNT1T	120	1	1.92	16.0			5-20P								580H	ORDER WITH LIDS/TRAY SEALS
581	2	TRAY CART	FRANKE CFS CART MODEL #18008029															581	(1) NOT SHOWN IN PLAN
600	1	MIXER	HOBART MODEL #HL200-1	120	1		8.00	0.50		5-20P								600	ORDER WITH (1) 3HOB061, (1) 3HOB318, (2) 3HOB319, AND (1) 3HOB058
600a	1	MIXER ROLLING CART	HOBART MODEL #HL2012															600a	ORDER ON 6" CASTERS
605	1	MOBILE CART	INTERMETRO MODEL #MW206															605	ORDER ON 5" CASTERS
607	1	COUNTER TOP LEMON JUICER	SUNMIST MODEL #J1	115	1			.25		5-15P								607	LOCATED ON ITEM #608
620L	1	FOOD PREP TABLE	EAGLE MODEL #T2424STE-BS															620L	WITH BACKSPASH - ORDER WITH 1 5/8 IN DIAMETER LEGS
631M	1	FILET TABLE (30"x30")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF355															631M	WITH MARINE EDGE AND BACKSPASH ON 5 IN CASTERS
649	1	MODIFIED DUAL LINE TABLE (72")	EAGLE MODEL #YVFA-DL-0039-00															649	WITH BREAD RACKS ON LEFT - NO BRIDGE
702	8	WALL MOUNT SINGLE RAIL	ULINE MODEL #H-4881															702	
711	2	DUNNAGE RACK (22"x30")	INTERMETRO MODEL #HP2230PDMB															711	
712	4	DUNNAGE RACK (22"x36")	INTERMETRO MODEL #HP2236PDMB															712	
734D	1	DRYING RACK (24"x48")	INTERMETRO MODEL #PR48X															734D	METROSEAL - 4 SHELVES
1120G	1	TRAY SLIDES (18" DEEP)	INTERMETRO															1120G	METROSEAL GRAY - INSTALLED BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER
1122G	1	TRAY SLIDES (24" DEEP)	INTERMETRO															1122G	METROSEAL GRAY - INSTALLED BETWEEN SHELVES IN COOLER
1140F	6	VERTICAL SHELF DIVIDER (8" HIGH X 14" DEEP)	INTERMETRO															1140F	MOUNTED ON 12" CENTERS AT FOOD PREP AREA - NOT SHOWN ON PLAN
1141G	6	VERTICAL SHELF DIVIDER (8" HIGH X 18" DEEP)	INTERMETRO															1141G	MOUNTED ON 12" CENTERS AT FOOD PREP AREA - NOT SHOWN ON PLAN
1324W	3	FLOOR SHELF UNIT (74" POST, 18"x48")	INTERMETRO															1324W	METROSEAL GRAY - (1) 18BK4, (3) 18BK6, (3) 18BK7, (4) 18PK4, & (4) 18PK5
1330FJ	1	JUICER WORK TABLE (24x24)	INTERMETRO															1330FJ	WITH (2) SOLID SHELVES AND 27-1/2 IN LEGS - ORDER (2) 2424FS AND (4) 27PK4
1331	2	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO															1331	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1332	2	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO															1332	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1333W	1	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO															1333W	METROSEAL GRAY - (4) 24BK4, (4) 24PK4, & (4) 24PK5
1333	2	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO															1333	METROSEAL GRAY - 4 SHELVES
1333N	1	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO															1333N	METROSEAL GRAY - (3) 2442NK4, (4) 24PK4, (1) SF54N3K4
1334	2	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO															1334	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1335	4	FLOOR SHELF UNIT (74" POST, 24"x54")	INTERMETRO															1335	METROSEAL GRAY - 4 SHELVES
1336	2	FLOOR SHELF UNIT (74" POST, 24"x60")	INTERMETRO															1336	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1340V	1																		

GENERAL ELECTRICAL SPECIFICATIONS

SECTION 1600- ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON DRAWINGS AND AS SPECIFIED HEREIN.

B. THE ELECTRICAL WORK INCLUDES PROVIDING THE NEW MATERIAL, FIXTURES, DEVICES, FINAL CONNECTIONS AND ACCESSORIES NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM. THE WORK ALSO INCLUDES MAKING ALL FINAL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE IN FORCE AND LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION AND APPROVAL FROM AUTHORITY HAVING JURISDICTION.

C. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR THE ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, LAMPS, DEVICES, ACCESSORIES, OFFSETS, FINAL CONNECTIONS AND MATERIAL NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND PER SPECIFIED AND OWNER SUPPLIED EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND REQUIREMENTS.

D. IT IS THE INTENDING WORKER'S RESPONSIBILITY TO BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

1.02 REGULATORY REQUIREMENTS
A. EQUIPMENT FURNISHED SHALL BE UL LISTED WHERE SUCH LABEL IS AVAILABLE. INSTALLATION SHALL CONFORM TO ALL STANDARDS WHERE APPLICABLE.

B. ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH DRAWINGS AND 2020 EDITION OF NEC AND NFPA CODES, ALL APPLICABLE STATE AND LOCAL ELECTRICAL AND BUILDING CODES AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS WITHIN COMPLETE INSTALLATION.

C. OBTAIN PERMITS AND CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE INSTALLATION AND PAY ALL FEES REQUIRED.

1.03 SUBMITTALS
A. SUBMIT LIST OF MATERIALS AND EQUIPMENT PRIOR TO MANUFACTURE, ORDER OR INSTALLATION AND WITHIN TWENTY DAYS AFTER AWARD OF CONTRACT FOR APPROVAL. INCLUDE EACH ITEM OF MATERIAL AND EQUIPMENT WHETHER OR NOT SHOP DRAWINGS ARE ALSO REQUIRED. LIST SHALL INCLUDE MANUFACTURER'S NAME, CATALOG NUMBER AND OTHER COMPLETE IDENTIFICATION AS WELL AS DIMENSIONS AND DETAILED DATA.

B. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING: LIGHTING FIXTURES, SWITCHES, PANEL BOARDS & BREAKERS, WIRING DEVICES AND DEVICE PLATES ENCLOSED SWITCHES

C. CONTACTORS & TIMELOCKS
CERTIFIED SHOP DRAWINGS AND SUBMITTALS SHALL BEAR STAMP OF APPROVAL OF CONTRACTOR AS EVIDENCE THAT DRAWINGS HAVE BEEN CHECKED, DRAWINGS SUBMITTED WITHOUT THIS STAMP OF APPROVAL WILL NOT BE CONSIDERED AND WILL BE RETURNED FOR PROPER RESUBMISSION.

D. IF SUBMITTALS SHOW VARIANCES OR SUBSTITUTIONS FROM REQUIREMENTS OF CONTRACT, CONTRACTOR SHALL MAKE SPECIFIC MENTION OF SUCH VARIATION IN HIS LETTER OF TRANSMITTAL IN ORDER THAT, IF ACCEPTABLE, SUITABLE ACTION MAY BE TAKEN FOR PROPER ADJUSTMENT. OTHERWISE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR EXECUTING WORK IN ACCORDANCE WITH CONTRACT EVEN THOUGH SUCH SUBMITTALS HAVE BEEN APPROVED.

SECTION 1600- BASIC MATERIALS AND METHODS
1.01 COORDINATION
A. OBTAIN AND REVIEW SHOP DRAWINGS, PRODUCT DATA, AND MANUFACTURER'S INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS TO DETERMINE CONNECTION LOCATIONS AND REQUIREMENTS.

B. SEQUENCE ROUGH-IN OF ELECTRICAL CONNECTIONS TO COORDINATE WITH INSTALLATION AND START-UP OF EQUIPMENT FURNISHED UNDER OTHER SECTIONS.

PART 2 - PRODUCTS
2.01 SUBSTITUTIONS
A. WHERE SPECIFICATIONS LIST ONE OR MORE MANUFACTURERS AND DO NOT INCLUDE "OR APPROVED EQUAL", FURNISH MATERIALS MADE BY ONE OF MANUFACTURERS LISTED. WHERE "OR APPROVED EQUAL" IS INCLUDED, CONTRACTOR MAY SUBSTITUTE EQUAL PRODUCTS BY ANOTHER MANUFACTURER SUBJECT TO APPROVAL BY ENGINEER AND OWNER.

PART 3 - EXECUTION
3.01 INSTALLATION
A. MAKE ALL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT IN ACCORDANCE WITH RESPECTIVE EQUIPMENT MANUFACTURER'S PUBLISHED INSTRUCTIONS.

B. PROTECT WORK AND MATERIALS FROM DAMAGE BY WEATHER, ENTRANCE OF WATER AND DIRT. CAP CONDUIT DURING INSTALLATION. AVOID DAMAGE TO MATERIALS AND EQUIPMENT IN PLACE.

C. SATISFACTORILY REPAIR OR REMOVE AND REPLACE DAMAGED WORK WITH NEW MATERIALS. DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINERS. STORE FERROUS MATERIALS TO PREVENT RUSTING. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING.

D. TRENCHES SHALL BE EXCAVATED 6" BELOW ELEVATION OF BOTTOM OF CONDUIT.

E. COORDINATE ALL CONDUIT ROUTING PRIOR TO CONSTRUCTION WITH ALL OTHER TRADES. FAILURE TO ROUTE CONDUIT THROUGH BUILDING WITHOUT INTERFERING WITH OTHER EQUIPMENT AND CONSTRUCTION SHALL NOT CONSTITUTE A REASON FOR AN EXTRA CHARGE. EQUIPMENT, CONDUIT AND FITTINGS SHALL FIT INTO AVAILABLE SPACES IN BUILDING AND SHALL NOT BE INTRODUCED INTO BUILDING AT SUCH TIMES AND MANNER AS TO CAUSE DAMAGE TO STRUCTURE. EQUIPMENT REQUIRING SERVICE SHALL BE READILY ACCESSIBLE.

3.02 TESTING AND EQUIPMENT SERVICING
A. MAKE TEST TO ENSURE THE ENTIRE SYSTEM IS IN PROPER OPERATING CONDITION, AND THAT ADJUSTMENTS TO BREAKERS, FUSES, CONTROL EQUIPMENT AND APPARATUS HAVE BEEN MADE. CORRECT DEFECTS DISCOVERED DURING TESTS.

3.03 REMOVAL OF DEBRIS
A. REMOVE SURPLUS MATERIALS AND DEBRIS CAUSED BY, OR INCIDENTAL TO, ELECTRICAL WORK. REMOVE SUCH DEBRIS AT FREQUENT INTERVALS. KEEP JOB CLEAN DURING CONSTRUCTION.

3.04 IDENTIFICATION OF EQUIPMENT
A. IDENTIFY ELECTRICAL DISTRIBUTION EQUIPMENT, DISCONNECTS, AND CONTACTORS WITH BLACK LAMINATED PLASTIC NAME-PLATES, ATTACHED WITH TWO SCREWS, ENGRAVED WITH 1/4" H, HIGH, WHITE LETTERS.

3.05 GUARANTEE-WARRANTY
A. GUARANTEE WORK TO BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF BUILDING. REPAIR AND REPLACE DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH BECOMES DEFECTIVE DURING TERM OF GUARANTEE-WARRANTY. FURNISH OWNER WITH THREE WRITTEN COPIES OF GUARANTEE/WARRANTY.

SECTION 1610- RACEWAY AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. RIGID IMC, AND EMT CONDUIT SHALL BE HOT-DIPPED, GALVANIZED, OR ELECTROGALVANIZED STEEL BY ALLEN, REPUBLIC, TRIANGLE, WHEATLAND, OR APPROVED EQUAL.

B. PVC CONDUIT SHALL BE CARLON, SCHEDULE 40, 90 DEGREES "C" RATED, UNLESS OTHERWISE NOTED.
C. ASSOCIATED COUPLINGS, CONNECTORS AND FITTINGS SHALL BE STEEL AS MANUFACTURED BY RACO OR APPROVED EQUIVALENT. CATALOG NUMBERS USED BELOW ARE THOSE OF RACO.
D. ERICKSON COUPLINGS, SERIES 1502, SHALL BE USED WHERE NEITHER LENGTH OF CONDUIT CAN BE ROTATED.
E. INSULATED BUSHINGS SHALL BE SERIES 1402.
F. CONDUIT, CONNECTORS, COUPLINGS AND FITTINGS SHALL BE UL LISTED AND LABELED.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. USE ELECTRIC METALLIC TUBING (EMT) WHERE DRAWINGS CALL FOR CONDUIT TO BE:
1. CONCEALED IN WALLS.
2. INSTALLED ABOVE SUSPENDED CEILING.
3. INSTALLED EXPOSED, ABOVE 6 FEET.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. USE INTERMEDIATE METAL CONDUIT (IMC) WHERE DRAWINGS CALL FOR CONDUIT TO BE:
1. INSTALLED FOR PANEL BOARD FEEDERS.
2. INSTALLED IN CONCRETE SLABS AT GROUND FLOOR.
3. INSTALLED EXPOSED BELOW 6 FEET.

1.04 POLYVINYL CHLORIDE (PVC)
A. USE PVC FOR:
1. UNDERGROUND ELECTRICAL SERVICE ENTRANCE CONDUITS
2. TELEPHONE AND POWER SERVICE ENTRANCE CONDUITS.
3. EXTERIOR BRANCH CIRCUITS INSTALLED UNDERGROUND.

1.05 RIGID STEEL CONDUIT (RSC)
1. INSTALL UNDERGROUND FOR POWER SERVICE ENTRANCE ELBOWS PENETRATING FLOOR SLAB.
2. EXPOSED TO PHYSICAL DAMAGE.

1.06 FLEXIBLE METAL CONDUIT
A. PROVIDE FLEXIBLE METAL CONDUIT FOR TERMINATION AT EQUIPMENT BUSINGS, LOCKNUTS AND VIBRATION.
B. LENGTH SHALL NOT EXCEED 6 FEET.
C. MAXIMUM LENGTH CONCEALED IN WALLS SHALL BE 3 FEET.
D. WHERE EXPOSED TO CONTINUOUS OR INTERMITTENT VIBRATION, CONDUIT SHALL BE U.L. TYPE EF LIQUID TIGHT.

PART 2 - EXECUTION
2.01 INSTALLATION
A. MINIMUM SIZE OF CONDUITS SHALL BE 3/4 INCH UNLESS OTHERWISE NOTED.

B. RUN CONCEALED CONDUITS IN DIRECT LINE WITH LONG SWEEP BENDS OR OFFSETS. RUN EXPOSED CONDUITS PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES. GROUP MULTIPLE CONDUIT RUNS IN BANKS.

C. CAP ENDS OF CONDUITS TO PREVENT ENTRANCE OF WATER AND OTHER FOREIGN MATERIAL DURING CONSTRUCTION.

D. PROVIDE NO.12 AWG COPPER PULL WIRES OR NYLON CORD IN ALL EMPTY CONDUITS. STEEL WIRE NOT ACCEPTABLE AS PULL WIRE.

E. WHERE IMC CONDUIT ENTERS A CABINET, JUNCTION BOX, OR PULL BOX CONDUITORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE INSTALLED ON CONDUIT OUTSIDE AND INSIDE ENCLOSURE.

F. IN AREAS WHERE ENCLOSED AND GASKET FIXTURES AND WEATHER-PROOF DEVICES ARE SPECIFIED, WHERE RIGID CONDUIT ENTERS A SHEET METAL ENCLOSURE, JUNCTION BOX AND OUTLET BOX, AND NOT TERMINATED IN A THREADED HUB, A STEEL OR MALLEABLE IRON NYLON INSULATED HUB, COMPLETE WITH RECESSED SEALING "O" RING OR SEALING LOCKNUT SHALL BE USED.

G. PROVIDE SEAL-OFF FITTING IN ALL CONDUITS ENTERING A COLD TEMPERATURE AREA SUCH AS FREEZERS AND DRY REFRIGERATORS.

H. IN CONCRETE SLABS, BLOCK UP CONDUIT FROM FORMS AND SECURELY FASTEN IN PLACE. ALL CONDUITS IN SLABS SHALL HAVE A MINIMUM OF 4" INCHES CONCRETE COVERAGE ABOVE.

I. FAILURE TO ROUTE CONDUIT THROUGH BUILDING WITHOUT INTERFERING WITH OTHER EQUIPMENT, AND CONSTRUCTION SHALL NOT CONSTITUTE A REASON FOR AN EXTRA CHARGE. EQUIPMENT, CONDUIT, AND FITTINGS SHALL FIT INTO AVAILABLE SPACES IN BUILDING AND SHALL NOT BE INTRODUCED INTO BUILDING AT SUCH TIMES AND MANNER AS TO CAUSE DAMAGE TO STRUCTURE OR EQUIPMENT. EQUIPMENT REQUIRING SERVICING SHALL BE READILY ACCESSIBLE.

J. CONDUIT SHALL BE SIZED TO COMPLY WITH "NEC" FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED. EMT CONNECTORS AND COUPLINGS SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSHINGS INSIDE AND LOCKNUT OUTSIDE.

2.02 EMT (ELECTRICAL METALLIC TUBING)
A. MAKE ALL CONDUIT METALLIC TUBING IN CINDER CONCRETE OR CINDER FILL OR WHERE CONDUIT SYSTEM IS IN CONTACT WITH DISSIMILAR METALS OR IN WET LOCATIONS.

2.03 PVC
A. THREADED FITTINGS FOR ALL CONNECTORS AND ADAPTERS.
B. PROVIDE 1/4-INCH NYLON PULL ROPE IN ALL PRIMARY POWER AND INCOMING TELEPHONE SERVICE ENTRANCE CONDUITS.

C. NO PVC SHALL EMERGE FROM THE GROUND OR THE CONCRETE SLAB OR ENCASEMENT. PVC SHALL CONVERT TO GALVANIZED RIGID METAL PRIOR TO ITS EMERGENCE.

2.04 FLEXIBLE METAL CONDUIT
A. WHERE FITTINGS FOR LIQUID TIGHT FLEXIBLE CONDUIT ARE BROUGHT INTO AN ENCLOSURE WITH A KNOCK-OUT, A GASKET ASSEMBLY, CONSISTING OF ONE PIECE "O" RING, WITH BUNA-N SEALING MATERIAL, SERIES 3400, SHALL BE INSTALLED ON OUTSIDE OF BOX. FITTINGS SHALL BE MADE OF EITHER STEEL OR MALLEABLE IRON ONLY AND SHALL HAVE INSULATED THROATS OR INSULATED BUSHINGS.

B. IN DRY LOCATIONS, WHERE FINAL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT MAY BE MADE WITH FLEXIBLE METAL CONDUIT, FITTINGS SHALL BE OF STEEL OR MALLEABLE IRON ONLY WITH INSULATED THROATS OR INSULATED BUSHINGS, AND SHALL BE OF WEDGE AND SCRIBED TYPE HAVING AN ANGULAR WEDGE FITTING BETWEEN CONVOLUTIONS OF CONDUIT.

3.02 OUTLET BOXES
A. SELECT BOXES ACCORDING TO INTENDED USE AND TYPE OF OUTLET. CEILING OUTLET BOXES SHALL BE 4" OCTAGONAL AND 1-1/2" DEEP. USE 2-1/8" DEEP OCTAGONAL BOXES OR 4" SQUARE BOXES WHERE REQUIRED. ALL CEILING OUTLET BOXES SHALL HAVE A FIXTURE STUD OF "NO BOLT SELF-LOCKING" TYPE INSTALLED IF REQUIRED TO HANG THE FIXTURE SPECIFIED AT THE OUTLET.

3.03 JUNCTION BOXES
A. JUNCTION BOXES SHALL BE SIZED ACCORDING TO NUMBER OF CONDUCTORS IN BOX OR TYPE OF SERVICE TO BE PROVIDED. MINIMUM JUNCTION BOX SIZE 4-11/16" SQUARE AND 2-1/8" DEEP. PROVIDE SCREW COVERS FOR JUNCTION BOXES.

B. USE CODE GAUGE STEEL WITH SCREW COVERS FOR PULL BOXES WITH PRIME COAT AND PROVIDE WITH SCREW COVER. SIZE PULL BOXES ACCORDING TO THE NEC.

C. PROVIDE PULL BOX EVERY 100' OF CONDUIT RUN OR WHERE EXCESSIVE NUMBER OF BENDS NECESSITATES A BOX FOR EASE OF WIRE INSTALLATION.

D. PROVIDE CROUSE HINDS #GUP215 OR APPROVED EQUAL EXPLOSION PROOF JUNCTION BOXES AS REQUIRED PER PLANS IN CLASS 1 DIVISION 1 AREAS.

SECTION 1612- CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. PROVIDE 98% CONDUCTIVITY COPPER CONDUCTORS WITH NO. 10 AWG. INSULATION FOR CONDUCTORS NO. 12 AWG AND NO. 10 AWG. PROVIDE SOLID TYPE FOR ALL CONDUCTORS NO. 8 AWG AND LARGER, PROVIDE STRANDED TYPE. ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION UNLESS NOTED OTHERWISE.

B. CONDUCTORS SHALL BE MANUFACTURED BY TRIANGLE, AMERICAN, ROME, SOUTHWIRE OR APPROVED EQUAL. NO MORE THAN (3) CIRCUIT CONDUCTORS SHALL BE UTILIZED WITH A SINGLE NEUTRAL.
D. ISOLATED GROUND CIRCUITS SHALL HAVE SEPARATE, DEDICATED GROUND AND NEUTRAL CONDUITS. THIS INCLUDES THE POWER SYSTEM, TELEPHONE SYSTEM, ETC.

E. AC, MC AND BX CABLES ARE NOT PERMITTED.
PART 2 - EXECUTION
2.01 INSTALLATION
A. INSTALL PULL BOXES IN CIRCUITS OR FEEDERS OVER 100' LINEAR FEET IN LENGTH.

B. MAKE ALL SPLICES OR CONNECTIONS ONLY AT OUTLET, PULL JUNCTION BOXES, AND DEVICE PLATES.

C. ALL CONDUCTORS AND CONNECTIONS SHALL TEST FREE OF GROUNDS, SHORTS, AND OPENS PRIOR TO ENERGIZING CIRCUIT.

D. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCEPT LINEAR FEET LENGTH TO PREVENT EXCESSIVE VOLTAGE DROP.

E. USE WING NUTS AS MANUFACTURED BY IDEAL, SCOTCHLOCK TYPE Y, R, G, OR B, OR APPROVED EQUAL CONNECTORS FOR FIXTURE CONNECTIONS AT OUTLET BOXES.

F. MAKE FEEDER TAPS AND JOINTS WITH OZ TYPE T, PT, PM PITS, OR APPROVED EQUIVALENT CLAMP CONNECTORS AS MANUFACTURED BY KUHLER, OR WITH APPROVED COMPRESSION SLEEVES. WRAP CONNECTORS WITH NO. 10 ELECTRO-SEAL OR APPROVED EQUIVALENT PLASTIC FILLER AND WET TAPE.

G. LEAVE A MINIMUM OF 10" SLACK WIRE IN EVERY OUTLET BOX.

H. PROVIDE COLOR CODED WIRE, WITH A DIFFERENT COLOR FOR EACH PHASE AND NEUTRAL AND GROUND PER NEC. R.C.O. APPROVED COLORED TAPE IS ACCEPTABLE FOR FEEDERS USING LARGER THAN #6 CONDUCTORS.

I. ALL CONDUCTORS SHALL BE CONCEALED IN CONDUIT AND BE CONTINUOUS FROM ORIGIN AT PANEL TO EQUIPMENT TERMINATION WITHOUT SPLICES WHERE POSSIBLE. WHERE SPLICES ARE NECESSARY OR ARE REQUIRED, THEY SHALL BE MADE IN SPLICE BOXES WITH SUITABLE CONNECTORS.

J. LOW VOLTAGE COMMUNICATION AND CONTROLS WIRING NOT IN CONDUITS SHALL BE PLENUM RATED AND SUPPORTED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ALL SUCH CONDUCTORS MUST BE APPROVED BY OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

SECTION 1610- OUTLET AND JUNCTION BOXES
PART 1 - PRODUCTS
1.01 PROJECT CONDITIONS
A. VERIFY FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.

B. VERIFY LOCATIONS OF FLOOR BOXES AND OUTLETS IN WORK AREAS PRIOR TO ROUGH-IN WITH ARCHITECTS DIMENSIONED PLANS.

PART 2 - PRODUCTS
2.01 OUTLET BOXES
A. SHEET METAL OUTLET BOXES: GALVANIZED STEEL.
B. CAST METAL OUTLET BOXES: CAST FERROLOY, PROVIDE GASKET COVER BY BOX MANUFACTURER.

C. MANUFACTURERS: NATIONAL, APPLETON, GENERAL ELECTRIC, RACO, OR STEEL CITY.
D. PROVIDE BOXES FOR FIXTURES WITH FIXTURE STUDS IN CENTER.

E. OUTLET BOXES FOR LIGHTING, SWITCHES AND RECEPTACLES IN INTERIOR AREAS WITH EXPOSED CONDUIT SHALL BE PRESSED STEEL AND IN EXTERIOR AREAS WITH EXPOSED CONDUIT SHALL BE CAST METAL WITH THREADED HUBS, "FS" TYPE. USE GALVANIZED STEEL FOR CONCEALED BOXES. BOXES SHALL BE 1-1/2" DEEP MINIMUM.

2.02 PULL AND JUNCTION BOXES
A. SHEET METAL BOXES: GALVANIZED STEEL.
B. SURFACE-MOUNTED CAST METAL BOX: TYPE 4.
C. USE GALVANIZED STEEL FOR CONCEALED BOXES.

1. MATERIAL: GALVANIZED CAST IRON.
2. COVER: FURNISH WITH GROUND FLANGE, NEOPRENE GASKET, AND STAINLESS STEEL COVER SCREWS.
C. IN-GROUND CAST METAL BOX: INSIDE FLANGED, RECESSED OUTLET BOX FOR LIGHT OR CONDUIT MOUNTING.
1. MATERIAL: GALVANIZED CAST IRON.
2. COVER: NONSKID COVER WITH NEOPRENE GASKET AND STAINLESS STEEL COVER SCREWS.
3. COVER LEGEND: ELECTRIC.

D. MANUFACTURERS: NATIONAL, APPLETON, GENERAL ELECTRIC, RACO, OZ-GEDNEY OR STEEL CITY.

PART 3 - EXECUTION
3.01 INSTALLATION
A. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND PROVIDE PULL BOXES FOR SPLICES, TAP WIRE PULLING, EQUIPMENT CONNECTIONS AND COMPLIANCE WITH REGULATORY REQUIREMENTS ABOVE ACCESSIBLE CEILING.

B. ACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING EXCEPT PANEL OR FROM REMOVABLE RECESSED LIGHT FIXTURE.

C. USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS.
D. USE STAMPED STEEL BRIDGES TO FASTEN FLUSH MOUNTING OUTLET BOXES TO CEILING SUPPORT WIRES.

E. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES.
F. SUPPORT BOXES INDEPENDENTLY OF CONDUIT, EXCEPT CAST BOX THAT IS CONNECTED TO TWO RIGID METAL CONDUITS BOTH SUPPORTED WITHIN 12 INCHES OF BOX.

G. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX.
H. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.

1. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS AND WET LOCATIONS.

3.02 OUTLET BOXES
A. SELECT BOXES ACCORDING TO INTENDED USE AND TYPE OF OUTLET. CEILING OUTLET BOXES SHALL BE 4" OCTAGONAL AND 1-1/2" DEEP. USE 2-1/8" DEEP OCTAGONAL BOXES OR 4" SQUARE BOXES WHERE REQUIRED. ALL CEILING OUTLET BOXES SHALL HAVE A FIXTURE STUD OF "NO BOLT SELF-LOCKING" TYPE INSTALLED IF REQUIRED TO HANG THE FIXTURE SPECIFIED AT THE OUTLET.

3.03 JUNCTION BOXES
A. JUNCTION BOXES SHALL BE SIZED ACCORDING TO NUMBER OF CONDUCTORS IN BOX OR TYPE OF SERVICE TO BE PROVIDED. MINIMUM JUNCTION BOX SIZE 4-11/16" SQUARE AND 2-1/8" DEEP. PROVIDE SCREW COVERS FOR JUNCTION BOXES.

B. USE CODE GAUGE STEEL WITH SCREW COVERS FOR PULL BOXES WITH PRIME COAT AND PROVIDE WITH SCREW COVER. SIZE PULL BOXES ACCORDING TO THE NEC.

C. PROVIDE PULL BOX EVERY 100' OF CONDUIT RUN OR WHERE EXCESSIVE NUMBER OF BENDS NECESSITATES A BOX FOR EASE OF WIRE INSTALLATION.

D. PROVIDE CROUSE HINDS #GUP215 OR APPROVED EQUAL EXPLOSION PROOF JUNCTION BOXES AS REQUIRED PER PLANS IN CLASS 1 DIVISION 1 AREAS.

SECTION 1614- WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES
A. COLOR OF WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.

B. RATINGS: 20 AMPS, 120/277 VOLTS A.C. OR AS IDENTIFIED ON DRAWINGS.
C. DEVICES: (LEVITON CATALOG NUMBERS ARE LISTED UNLESS NOTED OTHERWISE):
1. SINGLE POLE TOGGLE SWITCHES:
A. 20 AMP IPVORY DEVICE - #1221-21
B. 20 AMP PIVOT LIGHTS ILLUMINATED WITH LOAD ON - #1221-PL
2. DOUBLE POLE TOGGLE SWITCHES: 20 AMP IVORY DEVICE - #1222-21
3. CROUSE-HINDS #J22S129 OR APPROVED EQUAL EXPLOSION PROOF SWITCH PER PLANS IN CLASS 1 DIVISION 1 AREAS.

1.02 RECEPTACLES
A. COLOR OF WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.

B. DEVICES: (LEVITON CATALOG NUMBERS ARE LISTED UNLESS OTHERWISE NOTED):
1. SPECIFICATION GRADE DEVICES
A. 20 AMP, 125 VOLTS A.C., RECEPTACLES
1. SINGLE DEVICE: #5361-(IVORY)
2. DUPLEX DEVICE: #5362A-1 OR #5(GREY)
3. ISOLATED GROUND DUPLEX DEVICE: #5362IG-ORANGE
4. ISOLATED GROUND SINGLE DEVICE: #5361IG-ORANGE

1.03 SPECIAL DEVICES:
A. MANUAL MOTOR STARTER SWITCH: SQ. D CLASS 2510, TYPE F, FOR USE ON MOTORS UP TO 3/4 HORSEPOWER. PROVIDE NEMA 1 ENCLOSURE IN DRY LOCATIONS; PROVIDE NEMA 3R ENCLOSURE IN WET OR EXTERIOR LOCATIONS.

B. CROUSE HINDS #JFD OR APPROVED EQUAL MANUAL MOTOR STARTER FOR CLASS 1 DIV. 1 AREAS PER PLANS.

1.04 WALL PLATES
A. PROVIDE SPECIFICATION/COMMERCIAL GRADE STAINLESS STEEL LEVITON SERIES FOR SWITCHES, COMMUNICATION AND POWER OUTLETS.

B. PROVIDE BLANK PLATES ON ALL OUTLET BOXES FOR FUTURE OUTLETS OR OUTLETS WITHOUT DEVICES. BLANK PLATE STYLE SHALL MATCH DEVICE PLATES.

C. IMPACT RESISTANT CAST METAL LEVITON SERIES FOR WEATHER-PROOF DUPLEX GFCI RECEPTACLES LOCATED OUTSIDE OR IN WET LOCATIONS. PROVIDE WITH "WHITE IN USE COVER"

D. WHERE DEVICES ARE INSTALLED IN EXPOSED BOXES OR EXTERIOR LOCATIONS, PROVIDE PROPERLY DESIGNED PLATES AND EXPOSED WORK COVERS.

E. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILING, AND ON SURFACE-MOUNTED BOXES.

PART 2 - EXECUTION
2.01 INSTALLATION
A. MOUNTING:
1. MOUNT SWITCHES AND RECEPTACLES AT HEIGHT ABOVE FINISHED FLOOR, AS INDICATED ON PLANS, AND LEGEND.

2. MOUNT SWITCHES ON STRIKE SIDE OF DOOR MAXIMUM 8" FROM DOOR FRAME. OUTLET BOX FOR SWITCH SHALL BE LOCATED CLEAR OF DOOR FRAME. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

3. INSTALL SWITCHES WITH OFF POSITION DOWN.
4. FOR GFCI TYPE RECEPTACLES, DO NOT USE THE FEED THRU FEATURE UNLESS OTHERWISE INDICATED ON PLANS.

5. USE JUMBO SIZED PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.
6. EACH RECEPTACLE SHALL BE PROVIDED WITH A #12 TYPE WIRE GREEN GROUND JUMPER BETWEEN THE GROUND TERMINAL OF THE RECEPTACLE AND THE OUTLET BOX.

7. THE GROUNDING CONDUCTOR TO EACH RECEPTACLE SHALL BE INSTALLED SUCH THAT THE REMOVAL OF THE DEVICE WILL NOT INTERFERE WITH THE CONTINUING OPERATION OF THE GROUNDING CONDUCTOR.

8. TESTING:
1. TEST EACH SWITCH AND VERIFY PROPER OPERATION WITH ENERGIZED CIRCUIT.
2. TEST EACH RECEPTACLE FOR PROPER POLARITY ON ENERGIZED CIRCUIT.

3. TEST EACH GFCI RECEPTACLE WITH GFCI RECEPTACLE TESTER AND VERIFY CIRCUIT IS OPENED BY GFCI DEVICE AT AMPERE RANGES ESTABLISHED BY MANUFACTURER.

END OF SECTION
SECTION 1610- GROUNDING AND BONDING
GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANEL BOARDS AND SYSTEM GROUNDING NEUTRAL. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING, WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE CONDUIT OR PLASTIC(PVC) CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH NEC ART250. CONDUIT SHALL NOT BE ALLOWED AS A GROUNDING MEANS.

PART 1 - PRODUCTS
1.01 ROD ELECTRODES
A. MATERIAL: COPPER-CLAD STEEL.
B. DIAMETER: 3/4 INCH.
C. LENGTH: 10 FEET MINIMUM.

1.02 MECHANICAL CONNECTORS
A. MATERIAL: BRONZE.
1.03 WIRE
A. MATERIAL: STRANDED COPPER.
B. FOUNDATION ELECTRODES: 3/0 AWG.
C. GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET SECTION 250.

PART 2 - EXECUTION
2.01 INSTALLATION
A. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.
B. BOND TOGETHER EACH METALLIC RACEWAY, PIPE, DUCT AND OTHER METAL OBJECTS.

C. PROVIDE DEDICATED, ISOLATED GROUNDING CONDUCTOR FOR CIRCUITS SUPPLYING ALL ISOLATED GROUND OUTLETS. INSULATION SHALL BE GREEN WITH YELLOW STRIPE. SIZE PER NEC 250. ISOLATED GROUNDING CONDUCTOR SHALL RUN IN ADDITION TO EQUIPMENT GROUNDING CONDUCTOR AND THE BRANCH CIRCUIT CONDUCTORS IN SAME CONDUIT. TERMINATE ON THE ISOLATED GROUND BUS WITHIN THE PANEL BOARD SERVING LOAD.

END OF SECTION
SECTION 1616- SUPPORTING DEVICES AND HANGERS
PART 1 - PRODUCTS
1.01 ACCEPTABLE MANUFACTURERS
A. SUPPORTING DEVICES AND HANGERS SHALL BE MANUFACTURED BY RAYCO FASTENERS.

PART 2 - EXECUTION
2.01 INSTALLATION:
A. SECURE CONDUITS WITHIN 3" OF EACH OUTLET BOX, JUNCTION BOX, CABINET, FITTING, ETC. AND AT INTERVALS NOT TO EXCEED TEN FEET (10') AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, IN SEISMIC ZONES, SUPPORT CONDUITS 1" AND UNDER AT 6' INTERVALS.

B. INSTALL CLAMPS SECURED TO STRUCTURE FOR FEEDER AND OTHER CONDUITS ROUTED ABOVE THE STRUCTURE. USE DROP RODS AND HANGERS OR RACKS TO SUPPORT CONDUITS RUN UP FROM THE STRUCTURE.

C. PROVIDE AND INSTALL SUITABLE ANGLE IRON, CHANNEL IRON OR STEEL METAL FRAMING WITH ACCESSORIES TO SUPPORT OR BRACE ELECTRICAL EQUIPMENT INCLUDING SAFETY SWITCHES, FIXTURES, PANEL BOARDS, ETC.

D. USE OF CHAINS, PERFORATED IRON, BALING WIRE OR THE WIRES FOR SUPPORTING CONDUIT RUNS IS NOT PERMITTED.

E. PROVIDE A SYSTEM OF SUPPORTING DEVICES AND HANGERS TO INSURE SECURE SUPPORT OF LOW VOLTAGE WIRING. FOR SUPPORT OF LOW VOLTAGE WIRING NOT REQUIRED TO BE IN CONDUIT, BUNDLE CABLES TOGETHER IN A NEAT, ORDERLY MANNER USING APPROVED NYLON TIE WRAPS. BUNDLED CABLES SHALL BE SUPPORTED WITH "J" HOOKS ON PLATE STYLE SHALL MATCH DEVICE PLATES.

F. CENTERS CLEARLY IDENTIFY ALL DIFFERING TYPES OF CABLES BEING RUN AND TAG WITH TAPE TAGS REGARDING TELEPHONE, PAR, MUSIC/COMMUNICATION, SECURITY, ETC. FOR VARIOUS SYSTEM UTILIZING SAE CABLE. IDENTIFICATION TAPE SHALL BE PROVIDED AT MINIMUM INTERVALS OF 25 FEET ON CENTER AND WITHIN EACH BUILDING SPACE.

END OF SECTION
SECTION 1618- ENCLOSURED SWITCHES
PART 1 - PRODUCTS
1.01 MANUFACTURERS
A. SQUARE D.
B. SIEMENS.
C. CUTLER-HAMMER.

1.02 NON-FUSED SWITCH ASSEMBLIES: NEMA 3K, 1, TYPE GENERAL DUTY FOR 250 VOLT AND 600 VOLT LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN "ON" POSITION.
B. ENCLOSED SWITCHES: NEMA 3B AND 4.
1. INTERIOR DRY LOCATIONS: TYPE 1.
2. EXTERIOR LOCATIONS: TYPE 3R.
END OF SECTION

2.02 GROUNDING

A. GROUND ELECTRICAL SYSTEM IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ART.250 AND LOCAL AUTHORITIES HAVING JURISDICTION.

B. INSTALL A GREEN EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY, SIZED PER N.E.C. ART.250. TERMINATE ON EQUIPMENT GROUND BUS WITHIN PANEL BOARD SERVING LOAD.

C. INSTALL #6 AWG COPPER GROUNDING CONDUCTOR FROM GROUND BAR IN MAIN TELEPHONE BOX OR BOARD TO EQUIPMENT GROUND BUS IN MAIN DISTRIBUTION PANEL OR AT SERVICE ENTRANCE EQUIPMENT PER NEC.

D. ALL SEPARATE GROUNDING ELECTRODES SHALL BE BONDED TOGETHER PER NEC ART.250 AND BONDED BETWEEN THEIR ACCESSIBLE GROUND AND NEUTRAL CONDUITS. THIS INCLUDES THE POWER SYSTEM, TELEPHONE SYSTEM, ETC.

2.03 FIELD QUALITY CONTROL
A. INSPECT GROUNDING AND BONDING SYSTEM CONDUCTORS AND CONNECTIONS FOR TIGHTNESS AND PROPER INSTALLATION. END OF SECTION

SECTION 1618- SUPPORTING DEVICES AND HANGERS
PART 1 - PRODUCTS
1.01 ACCEPTABLE MANUFACTURERS
A. SUPPORTING DEVICES AND HANGERS SHALL BE MANUFACTURED BY RAYCO FASTENERS.

PART 2 - EXECUTION
2.01 INSTALLATION:
A. SECURE CONDUITS WITHIN 3" OF EACH OUTLET BOX, JUNCTION BOX, CABINET, FITTING, ETC. AND AT INTERVALS NOT TO EXCEED TEN FEET (10') AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, IN SEISMIC ZONES, SUPPORT CONDUITS 1" AND UNDER AT 6' INTERVALS.

B. INSTALL CLAMPS SECURED TO STRUCTURE FOR FEEDER AND OTHER CONDUITS ROUTED ABOVE THE STRUCTURE. USE DROP RODS AND HANGERS OR RACKS TO SUPPORT CONDUITS RUN UP FROM THE STRUCTURE.

C. PROVIDE AND INSTALL SUITABLE ANGLE IRON, CHANNEL IRON OR STEEL METAL FRAMING WITH ACCESSORIES TO SUPPORT OR BRACE ELECTRICAL EQUIPMENT INCLUDING SAFETY SWITCHES, FIXTURES, PANEL BOARDS, ETC.

D. USE OF CHAINS, PERFORATED IRON, BALING WIRE OR THE WIRES

3

STANDARD PROVISIONS

PART 1 - GENERAL

1.01 GENERAL:

A. Related Work Specified Elsewhere:

1. The general provisions of the Contract, including General and Supplementary Conditions, Instructions to Bidders and General Requirements, apply to the work specified in this Division.

2. This section applies to all aspects of Division 15 and is intended to be complementary to the General Conditions, Supplementary General Conditions, and General Requirements.

3. Furnish all labor, materials, services, equipment and appliances required for the complete furnishing and installation of the Mechanical systems, including Plumbing, Heating, Ventilating and Air Conditioning and Fire Protection.

4. The use of the words "provide," "furnish," or "install" means that the item or facility is to be both furnished and installed unless expressly stated otherwise.

5. The term "Contractor" used in this Division of the Specifications shall mean the "Mechanical Sub-Contractor" or "HVAC Subcontractor".

6. Refer to the energy code report submitted to the city for building permit on this project. Listed are requirements for compliance for mechanical and plumbing systems. These shall be followed for equipment selection, installation, and commissioning.

B. Scope:

1. Refer to Architectural Supplements for the scope of the Project.

2. The contract documents and complete scope of work are illustrated on the combined Architectural, Structural, Plumbing, Heating, Ventilating and Air Conditioning, and Electrical drawings. Review and examine the complete set of contract documents.

3. Refer discrepancies, errors, omissions and ambiguities in the contract documents to the Architect. Otherwise, provide materials and labor to resolve same in a manner approved by the Architect at no additional costs to the Owner.

4. The intent of the drawings and specifications is to provide complete systems. Items included in one and not the other are of like effect as if included in both. Provide miscellaneous items and accessories required for complete systems.

5. Items indicated by one discipline and not included in another discipline in the drawings and specifications shall be provided as if included, at no additional costs to the Owner.

C. Description of System:

1. Facilities and systems of mechanical work in general include, but are not limited to, the following:

a. Basic Materials and Methods.

b. Heating, Air Conditioning and Ventilating System.

c. System Controls.

2. Provide labor, materials, equipment and accessories for complete systems whether or not specifically included in the Contract Documents.

3. Drawings are diagrammatic and contain graphic representations, schedules and notations showing mechanical work. Follow drawings as closely as actual construction will permit. Make deviations from drawings for conformance to actual construction at no additional costs to the Owner. Refer items requiring clarifications and interpretations to the Owner's representative for resolution; provide work as resolved at no additional costs to the Owner. Deviations for reasons other than described above, if deemed necessary, shall be submitted to the Owner's representative for approval. Do not make deviations without written approval.

D. Definitions:

1. The Contractor is responsible for the Work of Sub-Contractors.

2. Furnish - Supply Materials.

3. Install - Install Materials.

4. Provide - Furnish and Install Materials.

5. Approval - Written authority to proceed from the Architect.

1.02 QUALITY ASSURANCE:

A. Workmen Qualifications: Skilled mechanics competent in their trades, licensed where required by authorities having jurisdiction.

B. Requirements of Authorities Having Jurisdiction:

1. Determine authorities having jurisdiction and the applicable codes, rules and regulations of those authorities.

2. Perform work in conformance with the requirements of authorities having jurisdiction.

3. Obtain all permits, licenses and inspections as required by all authorities having jurisdiction. Give all notices and comply with all Laws, Ordinances, Rules, Regulations and Contract bearing on the work.

4. In cases of differences between requirements of the various authorities having jurisdiction, exceed the lesser requirements and meet the greater, more stringent requirements.

5. All fees and costs for permits, licenses, or inspections shall be paid by this Contractor unless expressly stated otherwise.

C. Codes:

1. The installation of the mechanical systems shall conform to the requirements of the National Fire Prevention Association (NFPA), local and state codes having jurisdiction, and the requirements of the Utility Companies whose services are used.

2. Codes and ordinances having jurisdiction over the work shall serve as minimum requirements; but, if the Contract Documents indicate requirements which are in excess of those minimum requirements, then the requirements of the Contract Documents shall be followed. Should there be any conflicts between the Contract Documents and codes or any ordinances having jurisdiction, report these to the Architect.

D. Reference Standards: All systems installed by this contractor shall be updated and modified in accordance with the following codes and standards, but in no instance shall the standards be less than the requirements of other paragraphs of these contract documents.

1. Specified manufacturer's instructions and recommendations.

2. American Society of Heating, Refrigeration and Air

Conditioning Engineers (ASHRAE).

3. Sheet Metal and Air Conditioning Contractors National Association. (SMACNA).

4. National Fire Protection Association (NFPA).

5. Underwriters' Laboratories (UL).

6. Americans with Disabilities Act (ADA).

7. Local code authorities.

1.03 SHOP DRAWINGS AND SUBMITTAL DATA:

A. Before submittal of the data, the Contractor shall check each piece of apparatus, equipment and accessory to ensure compliance with the requirements of the Plans and Specifications and shall clearly mark each submittal with his signature to indicate that they are in full compliance with the specifications and plans. The Contractor shall verify that all associated trades are aware of their work concerning the equipment submitted. Any submittals received without the Contractor's signature may be returned without being checked by the Architect's office. Include in the submittals all manufacturer's installation instructions. Coordinate with other trades any requirements that the manufacturer's installation instructions require, including but not limited to wire size, disconnects, switches, breaker types and sizes, and clearance space for service.

B. Certificates:

1. Provide certificates required by contract documents and by authorities having jurisdiction.

2. Provide Underwriters' Laboratories seals affixed to materials.

C. Test Reports: Provide copies of test reports required by contract documents and by authorities having jurisdiction.

D. Approval, disapproval, or comments on submittals shall not relieve the contractor of the requirements of the specifications or the drawings.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING:

A. Delivery: Deliver equipment and materials in unopened manufacturer's standard packaging. Any piece of equipment placed on the job site without prior written review shall be subjected to removal.

B. Storage: Store equipment and materials where not subject to damage from personnel and the elements.

C. Handling: Avoid damage to materials and surrounding surfaces and finishes before and during installation.

1.05 EXAMINATION OF PREMISES:

A. This Contractor shall visit the site to become fully acquainted with the immediate and surrounding premises and the conditions under which the work will be executed.

1.06 SUBCONTRACT AND LABOR:

A. All provisions of this Section shall apply to all Subcontracts to the extent that they are applicable to such Subcontractor.

1.07 ACCEPTANCE OF WORK:

A. The work, when completed, will be accepted in a finished, perfect and undamaged state only. This Contractor shall provide for protection of the work during its progress and, if damaged, all patching or replacing necessary to its full and satisfactory completion.

1.08 COMPLETE SYSTEMS:

A. It is the intention that this Specification shall provide a complete installation. All auxiliary construction equipment and apparatus necessary or advantageous to the operation and testing of the work shall be included. The omission of specific reference to any part of the work necessary for such complete installation shall not be interpreted as relieving this Contractor from furnishing and installing such parts.

1.09 WARRANTY:

A. Warrant the work for one year from and after date of substantial occupancy to include freedom from defects for materials, equipment and labor. Replace defective work during the warranty period. All compressors shall be five year non-prorated warranty.

B. The one year warranty provided in the General Conditions shall be in addition to and not in limitation of any warranties or warranties of longer duration or other remedies provided by law of the Contract Documents.

C. The warranty shall include supervision and adjustment, any maintenance recommended by the equipment manufacturer or contractor or inspections. Also included in the warranty is any refrigerator lost or leaked in normal operation or in service of equipment. Provide four filter changes at appropriate intervals during the warranty period.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. New, free from defects, of quality commercial grade standard product by reputable manufacturers.

B. Listed by Underwriters' Laboratories for which standards apply.

C. In compliance with Contract Documents in regard to quality, dimensions, appearance, design and performance.

D. Similar materials of same manufacture.

E. First named under "Acceptable Manufacturers" is the manufacturer whose product was used for design.

2.02 SUBSTITUTIONS:

A. Substitute materials will be considered for approval after Contract has been awarded.

B. Approval of substitutions is specifically excluded from this Division prior to signing of contract.

C. Requests for substitutions:

1. In writing.

2. Required data necessary for evaluation.

3. Difference in contract amount for each item.

4. In accordance with submittals procedure.

D. Requests for substitution imply no obligation on the Owner and his representatives.

E. If approved substitutions cause changes in the work required, including work by other trades, pay all costs involved and effect all necessary changes to accommodate substitutions at no additional cost to the Owner.

PART 3 - EXECUTION

3.01 INSPECTION:

A. Examine materials upon receipt for damages. Replace damaged materials.

B. Examine building structure to which materials are to be secured for defects adversely affecting the quality and execution of work. Do not start work until defects are corrected.

3.02 PREPARATION:

A. Field Measurements:

1. Refer conflicts to the Architect for review. Resolve conflicts in accordance with the Architect's written direction at no additional costs to the Owner.

2. Coordinate locations of materials with other trades by reference to Contract Documents and by conference with other trades. If work is later found to interfere with work of other trades, make necessary changes to eliminate interference at no additional cost to the Owner.

B. Preparation of Surfaces: Clean and otherwise modify surfaces to which materials are to be applied and secured in accordance with manufacturer's recommendations and Architect's direction.

C. Verify proper type materials being installed for environmental conditions.

3.03 INSTALLATION:

A. Install materials in accordance with the requirements of the authorities having jurisdiction and the manufacturer's recommendations. All heights and clearances of equipment to be installed is to be as detailed on the Architectural plans and as required by the ADA. Notify the Architect of all discrepancies in writing prior to rough-in.

B. Records for Owner:

1. Maintain full set of Contract Documents at Project. Note daily changes made in connection with final installation.

2. Provide a complete set of "as-built" reproducible drawings to the owner showing exact locations of all equipment, valves, piping, ducts, etc. These drawings shall reflect any changes from contract documents and shall be drafted by competent personnel to provide the owner with quality documents of facilities at project completion.

BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 DESCRIPTION:

A. Work included in This Section: The following Specification applies to all work of the Mechanical and Plumbing Contractors.

PART 2 - PRODUCTS

2.01 STANDARDS FOR MATERIALS:

A. All materials and equipment shall conform to the requirements of the Contract Documents. They shall be new, free from defects, and they shall conform to the following standards where these organizations have set standards. All materials and equipment shall be UL listed and labeled where possible.

1. Underwriters Laboratories, Inc. (UL).

2. National Electrical Manufacturer's Association (NEMA).

3. American National Standards Institute (ANSI).

B. Manufacturer's names and catalog numbers are used as a means of establishing product grade and quality. Where several manufacturers are named, only these named manufacturers' are to be used on the job. Other named manufacturers, although acceptable as manufacturers, must prove their product will conform satisfactorily and will meet space and capacity requirements, etc., of the first named manufacturer.

C. The use of one named manufacturer in the schedules on the Drawings is for guide purposes. The provisions of the above paragraph will govern in the selection of products to be used.

D. Where the "or approved equal" clause is used in these specifications, the name, or names, mentioned are to be used as a basis of quality. Other manufacturer's products will, however, be considered as substitutions and shall not be used as a basis for pricing.

E. Basis of quality shall be interpreted to include material, workmanship, weight, finish, gauges of material, appearances, capacity, performance, etc.

F. Manufacturer's representation as to availability of equipment parts and replacement and service personnel in the area will be a factor in consideration of substitutions.

2.02 FLAME SPREAD PROPERTIES OF MATERIALS:

A. Materials and adhesives used throughout the mechanical system for filters, acoustical lining, thermal (pipe) insulation, flexible connections, duct tape, pneumatic tubing, etc., exposed in plenums, shall conform to the Federal Standard flame spread properties of materials. Under this requirement, the classification shall not exceed No. 11, with the range of index between 0 and 25 for the basic materials, their index of 50 in its classification No. 11 as listed in the Federal Specification.

B. Only materials and adhesives meeting these requirements will be acceptable.

PART 3 - EXECUTION

3.01 FIREPROOFING PENETRATIONS:

A. Provide fire sealing for penetrations through fire rated construction to maintain the fire rating of the walls, floors, partitions or roofs per local jurisdiction and Landlord's requirements.

3.02 ROUGHING-IN AND FINAL CONNECTIONS:

A. The Mechanical Sub-Contractor shall have the responsibility of rough-in for and assembly of various equipment and to make final connection to all equipment furnished by Owner and/or under Sections of these Specifications.

B. Roughing-in and assembling of this equipment shall be determined from the manufacturer's Shop Drawings or as directed and in no case shall the location be scaled from the Architectural or Mechanical Drawings.

C. The Contractor shall be aware that various equipment, valves, strainers, unions, etc., shown on the plans furnished by others shall be coordinated and assembled before installation under this contract.

3.03 CONSTRUCTION REQUIREMENTS:

A. Where equipment is being furnished under another Division, request from the Architect an accepted drawing that will show exact dimensions of required locations of connections. Install the required facilities to the exact requirements of the approved drawing.

B. Assume responsibility for all costs or changes required that may be incurred if this Specification is not followed.

3.04 CLEAN-UP:

A. During the execution of the work remove all rubbish and excess materials accumulated as a result of the work.

B. Remove all dirt, paint, grease and stains from all exposed equipment and the entire installation so as to present a first class job suitable for occupancy. No loose parts or scraps of equipment shall be left on the premises.

C. Equipment paint scars shall be repaired with paint kits

supplied by the equipment manufacturer.

TESTS, ADJUSTMENTS AND INSPECTIONS:

A. On completion of the installation, test and adjust all new equipment installed or existing equipment connected.

B. Pay all costs for labor, materials, equipment, etc., as required for testing and adjusting of the systems. Provide all apparatus, temporary piping connection or any other requirements for all tests. Take due precautions to prevent damage to the building or its contents incurred by such tests. Repair and make good any damage so caused at no additional cost to Owner.

C. Any leaks, defects or deficiencies discovered as a result of these tests or tests performed by the Owner-retained testing and balancing firm shall be repaired and fully shall be repeated until test requirements are fully completed.

D. When practical, all piping tests shall be made before pipe is covered or concealed.

E. It is the intention of this section of the specifications to provide necessary tests during and at completion of the job to ensure light piping and ductwork and a correctly adjusted system, and the Contractor shall do everything necessary to accomplish this.

F. All motors, bearings, etc., on all equipment shall be correctly oiled and greased before the equipment is operated and again at the completion of the job. Provide complete oiling and greasing instructions for Owner's designated personnel. Grease fittings shall be installed on equipment that requires periodic greasing.

KITCHEN VENTILATION SYSTEMS

PART 1 GENERAL

1.01 SCOPE:

A. Furnish all labor, materials, tools, equipment items required for the complete installation of kitchen hoods, grease exhaust ducts, make-up air units, and controls as indicated by the Contract Documents. This contractor shall inspect the kitchen plans for the items to be furnished by the Kitchen Equipment Supplier. At times some of the mechanical equipment, hoods, fans and accessories will be provided by that supplier. This contractor shall provide the items not listed by the kitchen supplier and other miscellaneous items to make a complete installation.

1.02 WORK INCLUDED:

A. Make-Up Air Unit.

B. Roof mounting frame.

C. Kitchen Hood.

D. Kitchen Hood Fire Protection.

E. Grease Ducts.

F. Exhaust Fans

G. Controls.

1.03 REFERENCES:

A. AMCA - Air Movement and Control Association.

B. ASHRAE - American Society of Heating, Refrigeration and Air Conditioning Engineers.

C. SMACNA - Low Pressure Duct Construction Standards.

D. NFPA 96 - Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment.

1.04 QUALITY ASSURANCE:

A. Meet the requirements of UL, Health Codes, NFPA and applicable codes.

B. All supply and exhaust air requirements and limitations shall be thoroughly coordinated with hood manufacturer in writing to insure compatibility and maintain UL listing on hood.

C. Contractor shall obtain kitchen ventilation equipment approval from local fire authority prior to equipment submittal.

1.05 SUBMITTALS:

A. Submit shop drawings and product data under Standard Provisions.

B. Submit manufacturer's installation instructions under Standard Provisions.

C. Provide electrical wiring diagram with each submittal.

1.06 OPERATION AND MAINTENANCE DATA:

A. Submit manufacturer's descriptive literature, operating instructions, and maintenance and repair data under provisions of Section 15010.

PART 2 PRODUCTS

2.01 KITCHEN HOODS

A. These are furnished by the Kitchen Equipment provider and installed by this contractor as scheduled and shown on the drawings.

B. The hoods shall be constructed with 18 gauge, type 304, stainless steel interior liner and with 18 gauge, type 304, #3 polish, stainless steel exterior panels. The assembly at exposed external walls shall be ground down, smoothed and highly polished. Internal construction shall include galvanized structural framing members as required to prevent flexing and fatigue of the inner and outer shell. All unexposed interior surfaces shall be constructed of minimum 18 gauge galvanized steel, including, but not limited to: ducts, plenums, framing and brackets. Provide backslash panels.

C. The hoods shall include a filter housing constructed of the same material as the interior liner complete with aluminum U.L. Classified grease filters of sufficient numbers and sizes to insure optimum performance as specified by the filter manufacturer. The filter housing shall terminate into a pitched internal full-length grease trough which shall drain into a removable recessed one-cup capacity grease drawer.

D. Vapourproof U.L. listed marine incandescent light fixture shall be installed at approximately 3-foot centers. Hood manufacturer shall include enough light fixtures to provide the lighting levels required by the local codes. The lights shall be prewired to a junction box situated at the top of the hood for the requirements of the National Electrical Code.

E. The hoods shall be fabricated in accordance with N.F.P.A. Bulletin #96 shall bear the National Sanitation Seal of Approval (NSF). Hoods shall be U.L. Classified.

F. The hood shall be provided with hanging brackets on centers of four (4) feet or less. The Contractor shall locate the hood as directed by Owner. The mounting height of the hood shall not exceed seven (7) feet between the finished floor and the lower edge of hood.

2.02 HOOD FIRE PROTECTION SYSTEM:

A. The Kitchen Equipment Supplier shall provide a fire suppression system.

B. It shall be the dry chemical pre-engineered, piped, and fixed nozzle type. It shall be UL listed and installed in accordance with NFPA Standard #96 and conform to all state, municipal and local codes.

C. The design of the system shall provide protection of the supply and exhaust ducts and cooking equipment which may be a sources of ignition. It shall also include an audible alarm and automatic shut-off of all fuel and heat sources as required NFPA Standard #96. The system shall also be capable of either manual or automatic operation.

D. The Contractor shall secure the services of the fire protection equipment distributor for installation and certification. The certification report shall be given to Owner upon completion and acceptance of all work.

E. Kitchen hood suppression systems shall be provided with dry fire C contacts that activate when the suppression system is activated. These contacts shall be monitored as an alarm condition by the building Fire Alarm Control Panel.

2.03 SUPPLY FANS:

A. Supply fans for the kitchen hood shall be provided by the Kitchen Equipment supplier as scheduled on the drawings.

2.04 EXHAUST FANS

A. The Exhaust fans shall be provided by the Kitchen Equipment supplier as scheduled on the plans.

B. Exhaust fan shall be upblast type designed specifically for Restaurant or Food Service applications and rated for continuous operation.

B. The roof curb shall be the ventilated type, factory fabricated by the fan manufacturer.

2.05 EXHAUST AND SUPPLY DUCTS:

A. The exhaust and supply ductwork shall be installed as shown

on the drawings. The exhaust duct shall be of 16 gauge galvanized steel, 16 gauge black steel, or stainless steel and welded. Protect the welds by coating the weld with a noncorrosive protectant. The exhaust duct connecting collars shall be of the heat expansion type. The supply duct shall be of 18 gauge galvanized steel. All work shall conform to NFPA 96 recommendations.

2.06 CONTROLS

A. A control panel shall be flush mounted on the front face of the canopy. This panel shall include two on/off toggle-type switches for the control of hood lights and fans. There shall be indicator lamp located next to each fan switch for positive function status identification. The panel installed shall have a stainless steel bezel plate with integral etched switch and lamp function description.

B. Kitchen hoods shall be provided with a means such that the exhaust fan is activated when any heat producing cooking appliance under the hood is turned on to meet the requirements of NFPA 96 (2017 edition), Chapter 8, Section 8.2.3.3

DUCTWORK

PART 1 GENERAL

1.01 SCOPE:

A. Furnish all labor, materials, tools, equipment and related items required for the complete installation of Ductwork as indicated by the Contract Documents.

PART 2 PRODUCTS:

2.01 MATERIALS:

A. General: Non-combustible or conforming to requirements for Class 1 air duct materials, or UL 181.

B. Steel Ducts: Galvanized steel sheet, lock-forming quality, having zinc coating of 1.25 oz per sq. ft. (362 g/sq m) for each side in conformance with ASTM A90.

C. Flexible Ducts: Interlocking spiral of galvanized steel or aluminum construction; rated to 2 inches WG (500 Pa) positive and 1.5 inches WG (375 Pa) negative.

D. Insulated Flexible Ducts: Flexible duct wrapped with flexible glass fiber insulation, enclosed by seamless aluminum pigmented plastic vapor barrier jacket, maximum 0.23 K value at 75 degrees F (0.034 KSI at 24 degrees C).

E. Fasteners: Rivets, bolts, or sheet metal screws.

F. Sealant: Non-hardening, weather resistant, fire resistive, compatible with mating materials; liquid used alone or with tape, or heavy mastic.

G. Hanger Rod: Steel, galvanized; threaded both ends, threaded one end, or continuously threaded.

H. Plumber's strap is not an acceptable duct hanger.

I. Duct longitudinal seams shall be double locked and hammered flat.

J. Fabricate and support in accordance with SMACNA Low Pressure Duct Construction Standards and ASHRAE handbooks, except as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.

K. Size round ducts installed in place of rectangular ducts in accordance with ASHRAE table of equivalent rectangular and round ducts. No variation of duct configuration or sizes permitted except by written permission.

L. Construct Tee's, bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows are used, provide turning vanes. Where acoustical lining is indicated, provide turning vanes of perforated metal with glass fiber insulation.

M. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible. Divergence upstream of equipment shall not exceed 30 degrees; convergence downstream shall not exceed 45 degrees.

N. Provide easements where low pressure ductwork conflicts with piping and structure. Where easements exceed 10 percent duct area, split into two ducts maintaining original duct area.

O. Use double nuts and lock washers on thread rod supports.

2.03 LOW PRESSURE FLEXIBLE DUCTWORK:

A. Low Pressure flexible duct shall conform to the Class 1 requirements of the NFPA. A nominal 1" thickness of fiberglass insulation shall be enclosed in a factory applied and sealed vapor barrier jacket.

B. Insulated flexible duct shall be type SLR-181 Genflex as manufactured by the General Environment Corporation or equal by Wemold or Thermotex.

C. All flexible duct shall be installed per manufacturer's recommendations.

D. All joints and connections shall be made with positive locking steel, straps and approved mastic tape insulation joints.

1

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REGISTERED ENGINEER
DAVID R. LIPPE
53317
F-17316 02/28/23

CHICK-FIL-A
U. OF NORTH TEXAS
STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307

BUILDING TYPE / SIZE: LCV
RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 22-MAY-012
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 2/28/2023
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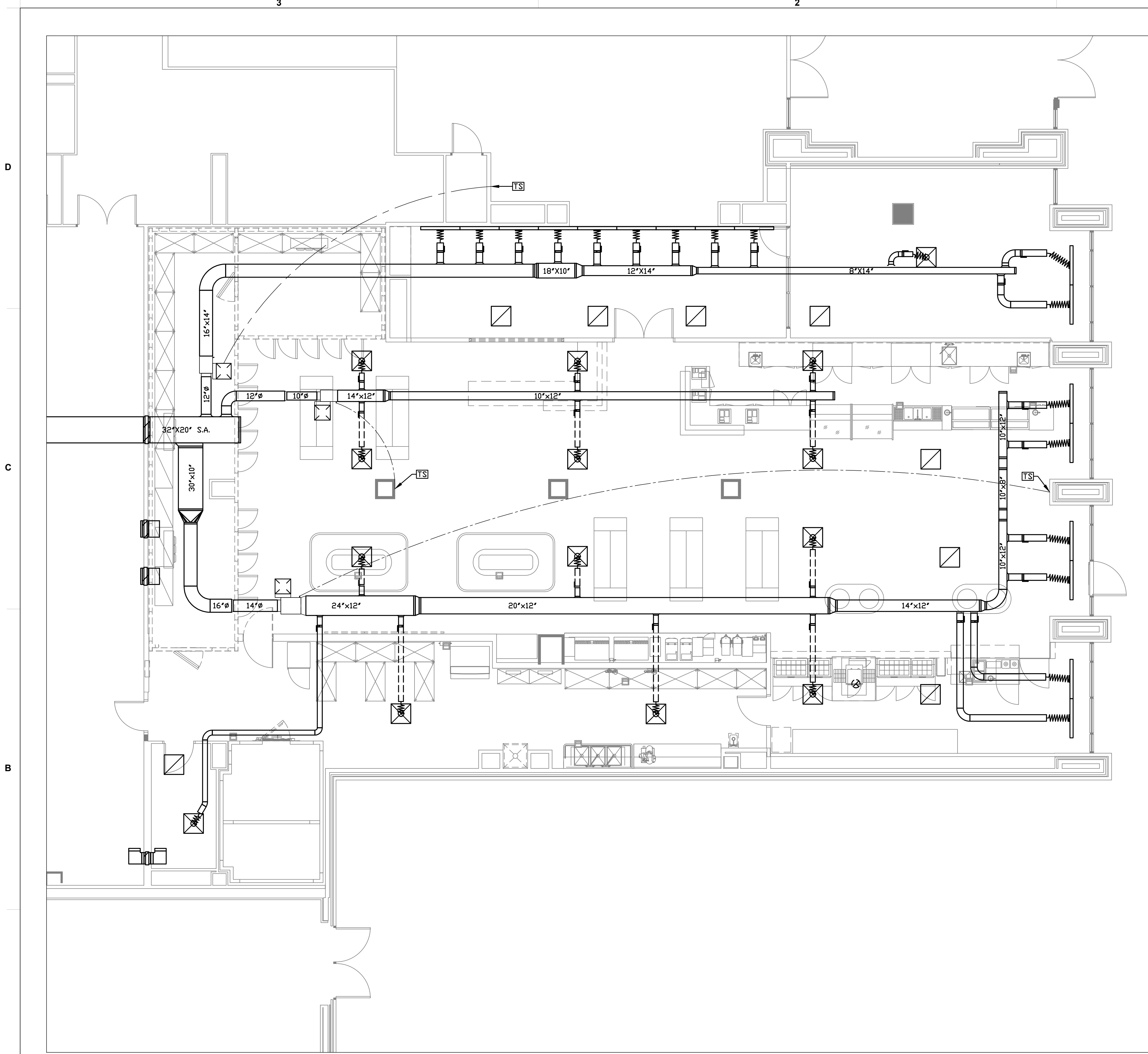
SHEET MECHANICAL SPECIFICATIONS

SHEET NUMBER

14901 Quorum Dr. #565
Dallas, Texas 75254
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0.00

BIM 360/INC_05197_Cape Fear Valley Med Center_2022.1_SAT/05197_Cape Fear Valley Med Center_ARC.nt
 10/19/2022 10:59:42 AM
 05197-A-201-FLOOR PLAN



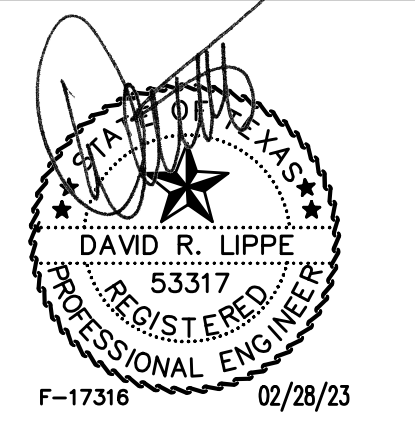
1 MECHANICAL DEMO FLOOR PLAN
 3/16" = 1'-0"



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LCV#80307

BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22-MAY-012
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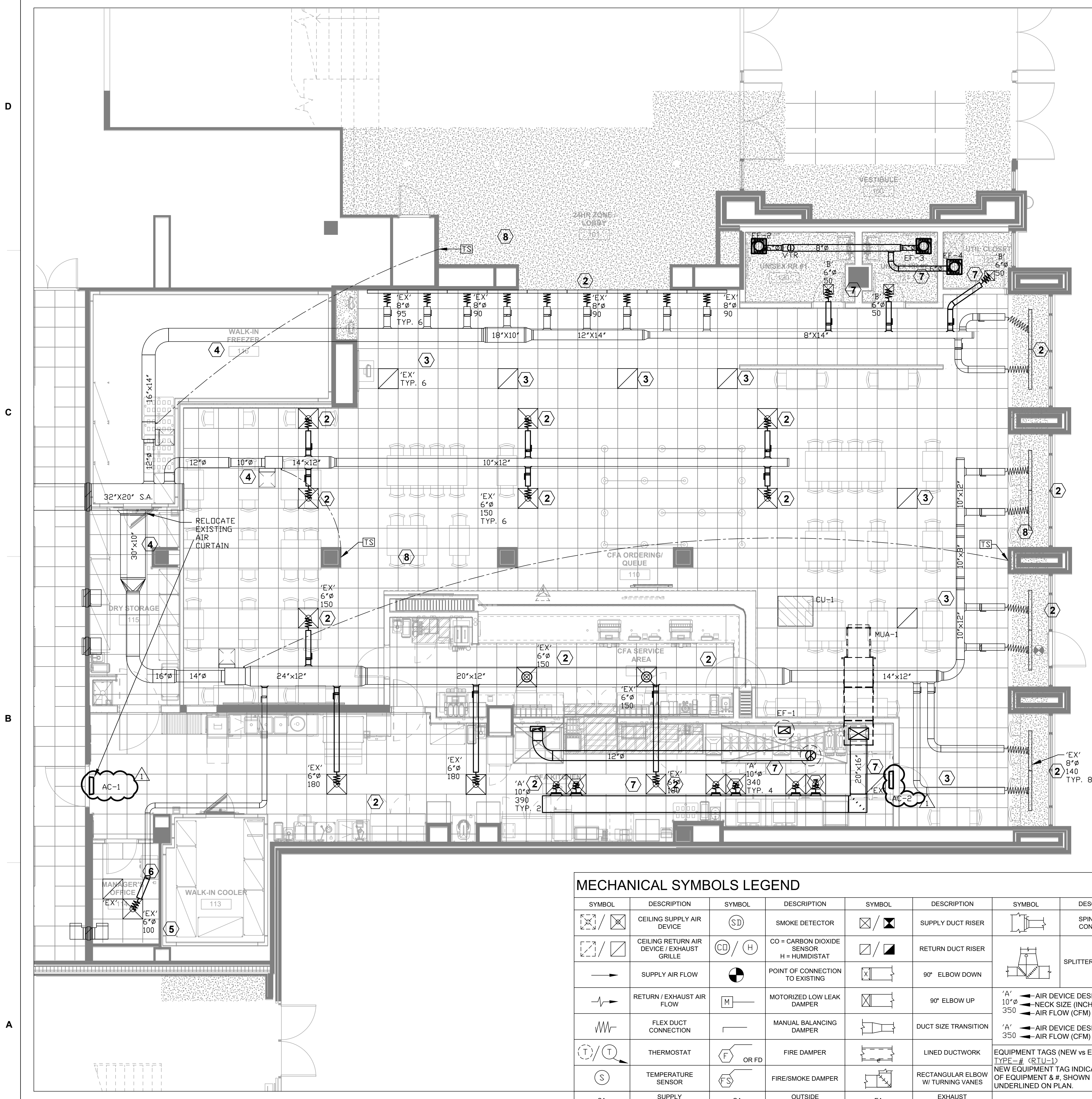
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SHEET
 MECHANICAL DEMO FLOOR PLAN

SHEET NUMBER

M1.00

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 05197-A-201-FLOOR PLAN



1 MECHANICAL FLOOR PLAN
 3/16" = 1'-0"

MECHANICAL SYMBOLS LEGEND							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING SUPPLY AIR DEVICE		SMOKE DETECTOR		SUPPLY DUCT RISER		SPIN-IN DUCT CONNECTION
	CEILING RETURN AIR DEVICE / EXHAUST GRILLE		CO = CARBON DIOXIDE SENSOR H = HUMIDISTAT		RETURN DUCT RISER		SPLITTER TEE DAMPER
	SUPPLY AIR FLOW		POINT OF CONNECTION TO EXISTING		90° ELBOW DOWN		
	RETURN / EXHAUST AIR FLOW		MOTORIZED LOW LEAK DAMPER		90° ELBOW UP		
	FLEX DUCT CONNECTION		MANUAL BALANCING DAMPER		DUCT SIZE TRANSITION		
	THERMOSTAT		FIRE DAMPER		LINED DUCTWORK		
	TEMPERATURE SENSOR		FIRE/SMOKE DAMPER		RECTANGULAR ELBOW W/TURNING VANES		
	SUPPLY AIR		OUTSIDE AIR		EXHAUST AIR		
	RETURN AIR		VENT THROUGH ROOF		MECHANICAL CONTRACTOR		

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

FAN SCHEDULE		
DESIGNATION	EF-1	EF-2,3,4
SERVES	112 CFA KITCHEN	UNISEX RR #1 UNISEX RR #2 UTIL CLOSET
TOTAL CFM	1699	75
TOTAL S.P. (IN. W.G.)	1	0.375
MOTOR HP / WATTS	1/-	-/4.5
DRIVE TYPE	DIRECT	DIRECT
VOLT/PHASE	208/1	120/1
WEIGHT (LBS)	159	9
MANUFACTURER	HALTON	GREENHECK
MODEL NO.	HSTXBRHUL15-3/4	SP-B80
ACCESSORIES	MOUNT & WIRE DISCONNECT, GALV SF CURB, LABEL UL 762 BELT TENSIONER ASSY, GREASE CONTAINER, HINGE KIT	BD DAMPER INTERLOCK W/ LIGHT

NOTES:
 1. MOUNT FAN PER MANUFACTURER'S RECOMMENDATIONS.
 2. MAINTAIN CODE REQUIRED DISTANCE BETWEEN EXHAUST OUTLET AND OUTSIDE AIR INTAKES.
 3. PROVIDE WITH SPEED CONTROL TO BE MOUNTED ON J-BOX ABOVE CEILING.

AIR CURTAIN SCHEDULE		
DESIGNATION	AC-1, AC-2	
SERVES	WEST KITCHEN EXIT EAST KITCHEN EXIT	
MOUNTING	WALL/CEILING	
VOLTAGE	120	
PHASE	1	
kW	0.017	
NEMA RATING	5-15P	
ITEM NO.	211B	
MODEL	GC/FSP VENDOR	
MANUFACTURER		
ACCESSORIES		

NOTES:
 1. MOUNT AIR CURTAIN PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

A. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, PIPING OR EQUIPMENT.

B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO, REFRIGERANT LINES, ETC.

C. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.

D. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALVANIZED STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT. THE MAXIMUM ALLOWABLE LENGTH OF FLEX DUCT SHALL BE 5'-0".

E. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.

F. ALL DUCT DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS. NO ALLOWANCE HAS BEEN MADE FOR LINER OR WRAP.

G. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SPLICERS, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.

H. ALL SUPPLY, RETURN AND EXHAUST AIR DEVICES SHALL BE PAINTED AS REQUIRED BY THE OWNER.

NOTES BY SYMBOL 'X'

- EXISTING HOOD TO REMAIN. REFURBISH ALL CONNECTED DUCTS AND FANS AS REQUIRED TO LIKE NEW CONDITION.
- EXISTING SUPPLY GRILLE TO REMAIN. CLEAN AND RESTORE TO LIKE NEW. REPLACE AS REQUIRED. REBALANCE AIR VOLUMES TO VALUE INDICATED ON PLANS.
- EXISTING RETURN GRILLE TO REMAIN. CLEAN AND RESTORE TO LIKE NEW. REPLACE AS REQUIRED.
- EXISTING SUPPLY DUCT TO REMAIN AND BE REUSED.
- EXISTING SUPPLY GRILLE TO BE RELOCATED TO LOCATION SHOWN. CLEAN AND RESTORE TO LIKE NEW. REPLACE AS REQUIRED. REBALANCE AIR VOLUMES TO VALUE INDICATED ON PLANS.
- EXISTING RETURN GRILLE TO BE RELOCATED TO LOCATION SHOWN. CLEAN AND RESTORE TO LIKE NEW. REPLACE AS REQUIRED.
- NEW SUPPLY GRILLE. PROVIDE SPIRAL TAP AND FLEX DUCT.
- EXISTING THERMOSTAT TO REMAIN AND BE REUSED.

MUA SCHEDULE	
DESIGNATION	MUA-1
SERVES	112 CFA KITCHEN
MAX. C.F.M.	2800
DESIGN C.F.M.	2146
INTERNAL S.P.	2.71 W.G.
EXTERNAL S.P.	0.75 W.G.
TOTAL S.P.	3.46 W.G.
MOTOR BHP	3
FAN HP	1.96
F.L.A.	10.1
MOTOR RPM	1800
VOLTAGE/PHASE/Hz	208/3/60
FAN RPM	1862 @ 60 HZ
MOUNTING	EXTERIOR
BLOWER MODEL	ATLI 9-8 T2
MATERIAL TYPE	G90 GALV. 20GA.
PAINT COLOR	UNPAINTED
WEIGHT	2336 LBS
HEATING	
GAS TYPE	NATURAL
MIN. GAS PRESSURE	8" W.C.
MAX. GAS PRESSURE	14" W.C.
GAS LINE SIZE	1/2"
DISCHARGE TEMP.	70°F
TEMP. RISE	49°F
HEAT INPUT MBH	123.4
HEAT OUTPUT MBH	113.5
COOLING	
COIL ENTERING DB TEMP.	101.7°F
COIL ENTERING WB TEMP.	75°F
OFF COIL DB TEMP.	68.9°F
OFF COIL WB TEMP.	65.5°F
COIL TOTAL CAPACITY	75.9 MBH
COIL SENSIBLE CAPACITY	75.9 MBH
COIL LATENT CAPACITY	0 MBH

NOTES:
 1. SEE SHEET M-402 FOR UNIT FEATURES.

AIR DEVICE SCHEDULE	
DESIGNATION	A
MODULE SIZE	24"x24"
NECK SIZE	SEE PLAN
FLOW RATE (CFM)	SEE PLAN
NECK VELOCITY (FPM)	700 MAX.
N.C. LEVEL	18 MAX
MANUFACTURER	TITUS
MODEL NO.	PAR
DESCRIPTION	PERFORATED SUPPLY
REMARKS	1, 3, 4, 5, 6, 7

NOTES:
 1. MOUNTING FRAMES SHALL BE COMPATIBLE WITH CEILING TYPE.
 2. PROVIDE OPPOSED BLADE DAMPER.
 3. PROVIDE FINISH PER ARCHITECTURAL.
 4. ALL CEILING DIFFUSERS ARE 4-WAY DISCHARGE, UNLESS OTHERWISE INDICATED ON PLANS.
 5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 6. DUCT RUNOUTS ARE SAME SIZE AS AIR DEVICE NECK NOTED ON PLAN.
 7. OR APPROVED ALTERNATE.

CONSTRUCTION DOCUMENTS

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DAVID R. LIPPE
 REGISTERED ENGINEER
 PROFESSIONAL ENGINEERING
 F-17316 05/04/23

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LCV#80307
 BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV

CONSULTANT PROJECT # 22-MAY-012
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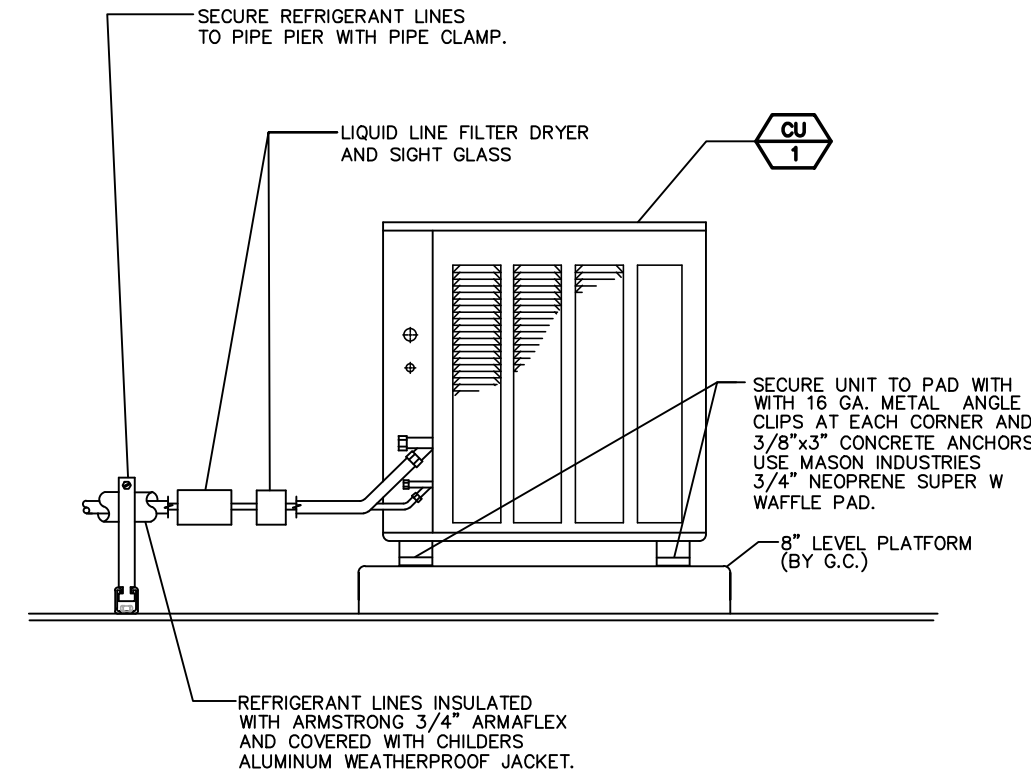
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SHEET

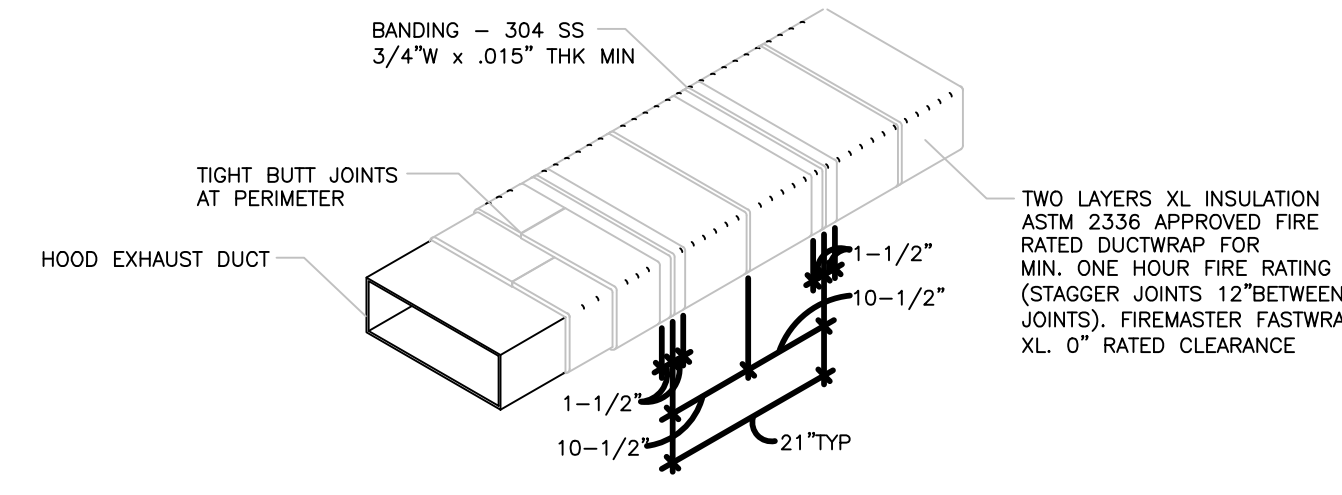
MECHANICAL FLOOR PLAN

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 engineering consultants
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SHEET NUMBER
M2.00

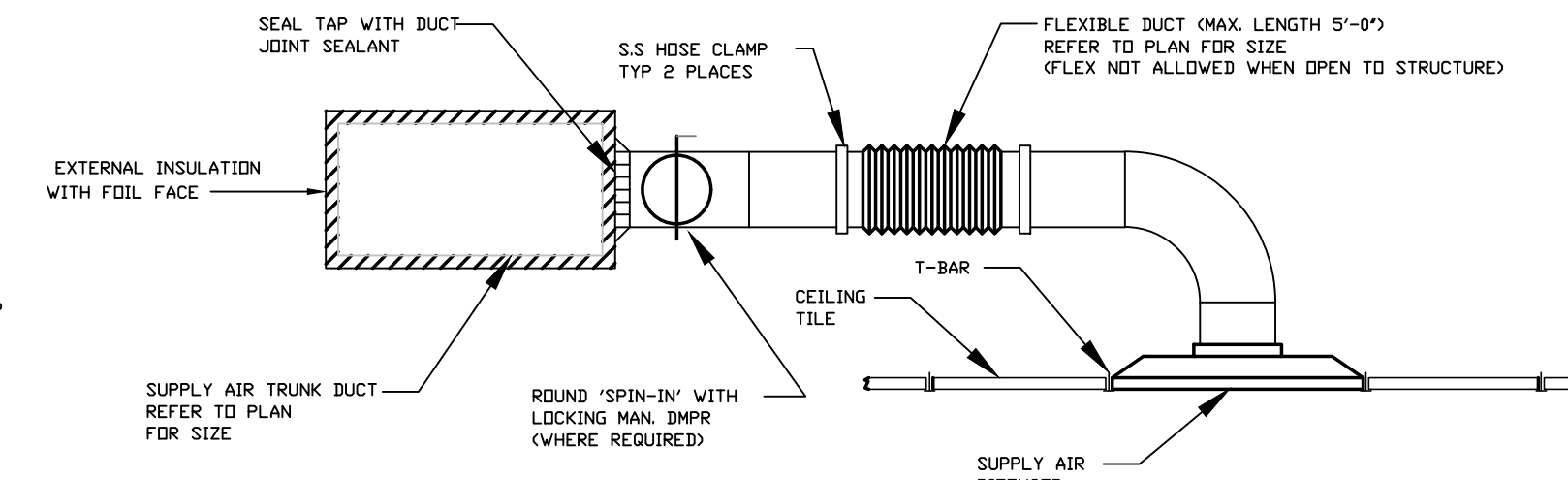


01 CONDENSING UNIT DETAIL
SCALE: NOT TO SCALE



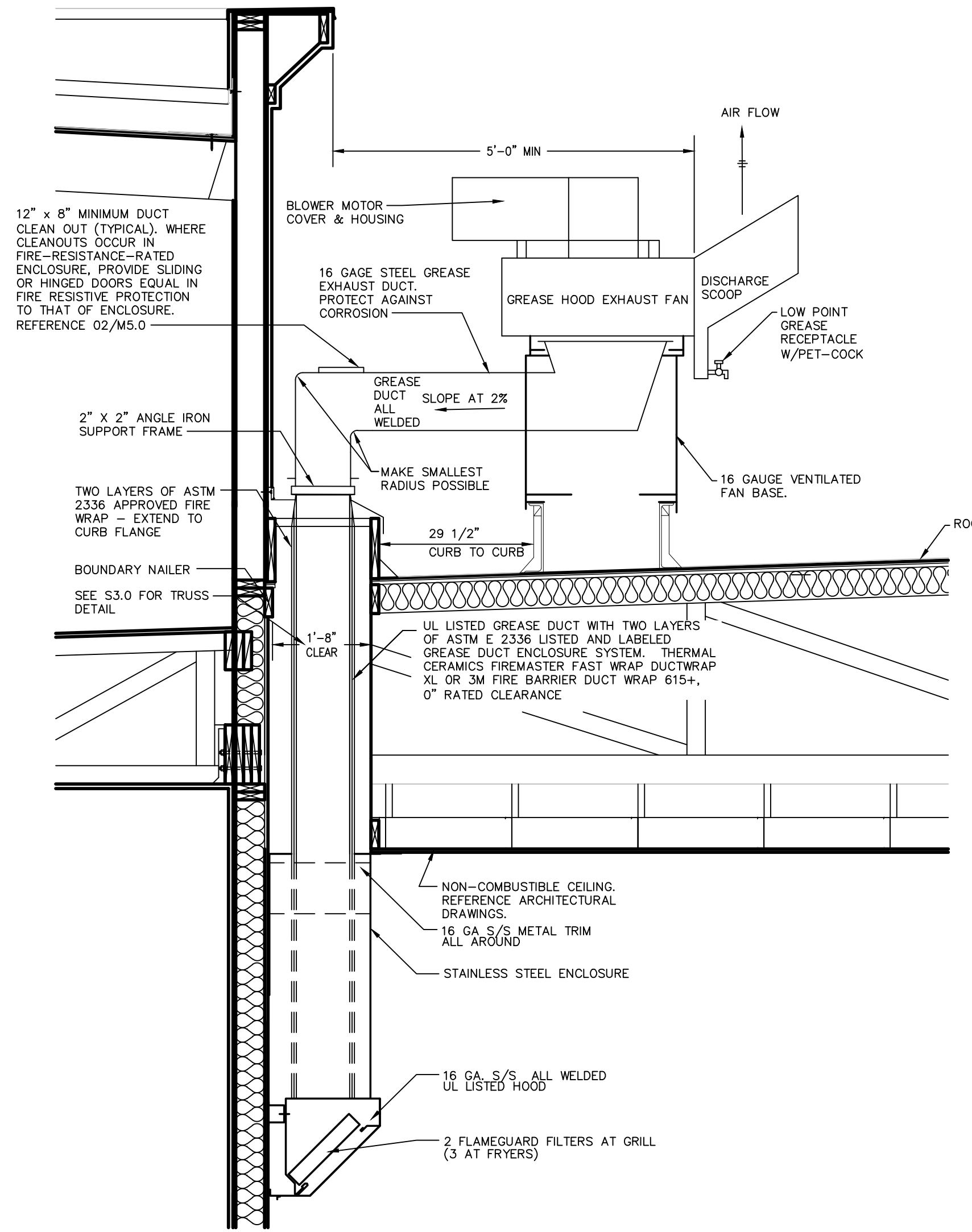
NOTE:
 1. WRAP SUPPORT HANGER SYSTEM INDEPENDENTLY WITH SAME THICKNESS FOR EXTERNAL FIRE THREAT CONDITIONS.
 2. WRAP GREASE DUCT CONTINUOUS AS SHOWN BELOW FOR ENTIRE LENGTH FROM KITCHEN HOOD CONNECTION TO EXHAUST FAN ON ROOF.
 3. BANDING REQUIREMENTS: USE 304 STAINLESS STEEL FOR MIN. ONE HOUR RATING

02 KITCHEN EXHAUST DUCT SYSTEM
SCALE: NOT TO SCALE

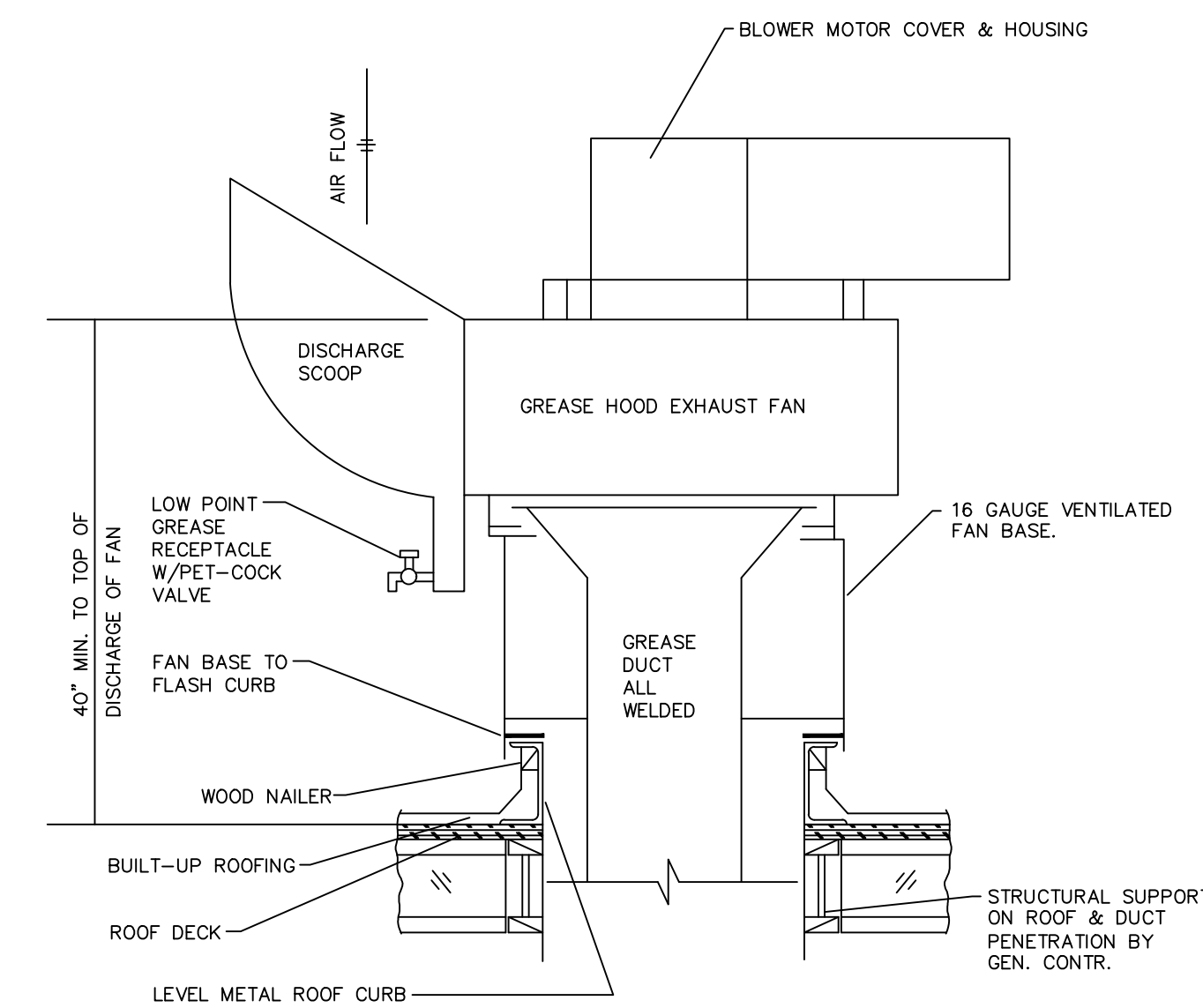


NOTE:
 1. ALL PLENUMS AND DUCTS MUST BE SUPPORTED FROM STRUCTURE PER LOCAL CODE STANDARDS AND SMACNA STANDARDS.
 2. ALL DUCT MUST BE SEALED FOLLOWING MANUFACTURER'S GUIDELINES.
 3. ALL FLEX DUCT SHALL BE INSTALLED FOLLOWING MANUFACTURER'S GUIDELINES. FLEX DUCTS SHALL BE EQUAL TO "FLEXMASTER TYPE 80" INSULATED WITH ONE AND ONE-HALF INCH (38) THICK FIBERGLASS IS APPROVED WITH A FLAME SPREAD RATING OF NO MORE THAN 25, A SMOKE DEVELOPED RATING OF NO MORE THAN 50, AND WITH A MAXIMUM THERMAL CONDUCTANCE OF 0.029 AT 75 DEGREES F. ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO TRUNK OR BRANCH DUCTS WITH A BANDING SCREW CLAMP AT EACH CONNECTION. FLEXIBLE DUCTS SHALL BE SUPPORTED BY ONE INCH (25) WIDE 16 GAUGE (MINIMUM METAL STRIPS. THE MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE FOUR FEET (4'-0"), OR LESS IF LIMITED BY LOCAL CODE. THE MINIMUM BENDING RADIUS SHALL BE ONE AND ONE-HALF (1.5) TIMES THE DUCT DIAMETER OR AS SUGGESTED BY THE DUCT MANUFACTURER.

03 SUPPLY DIFFUSER CONNECTION
SCALE: NOT TO SCALE



04 GREASE EXHAUST DETAIL
SCALE: NOT TO SCALE



05 GREASE EXHAUST FAN DETAIL
SCALE: NOT TO SCALE

BIM 360/INC_05197_Cape Fear Valley Med Center_2022.1_SAT/05197_Cape Fear Valley Med Center_ARC.rvt
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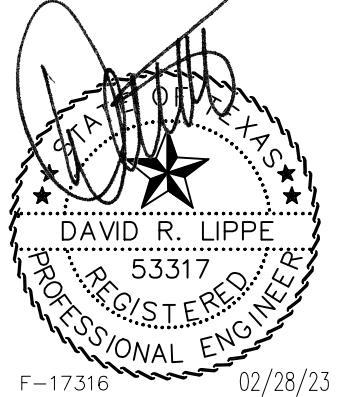


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LCV#80307
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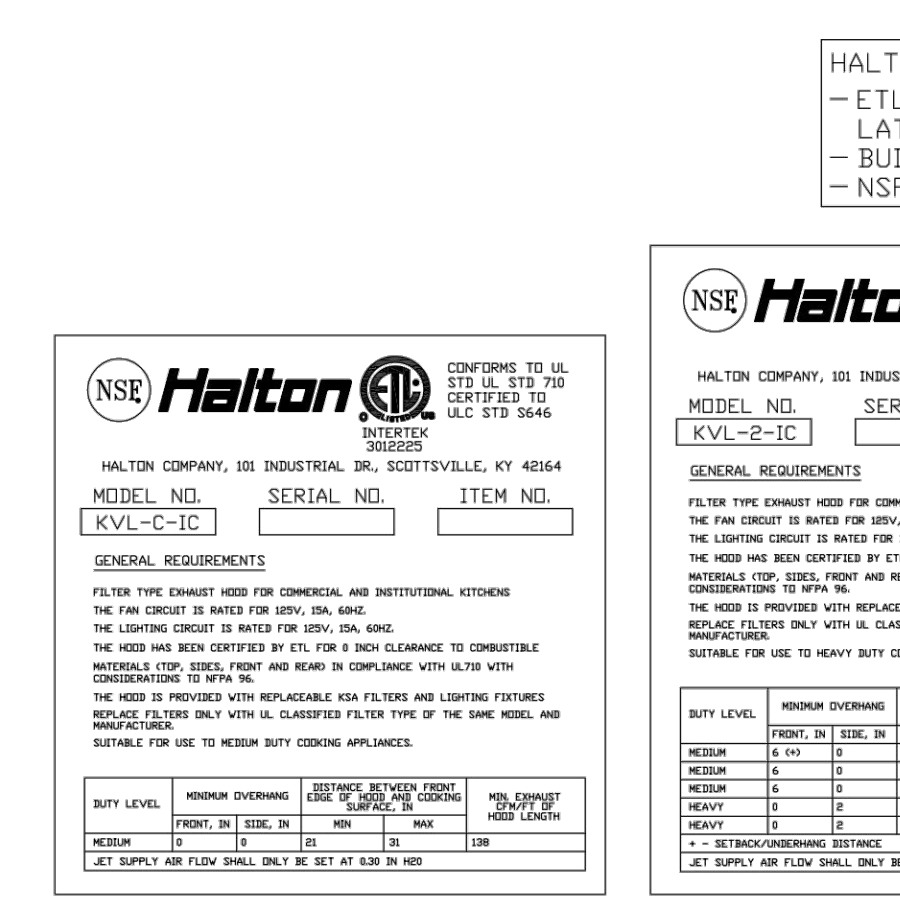
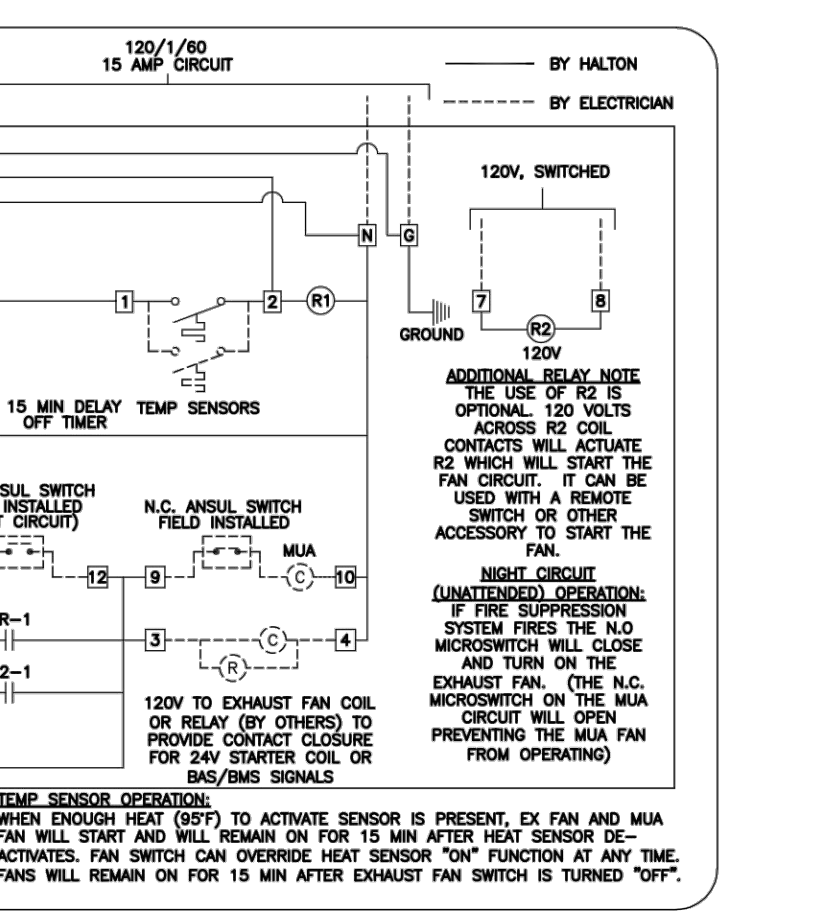
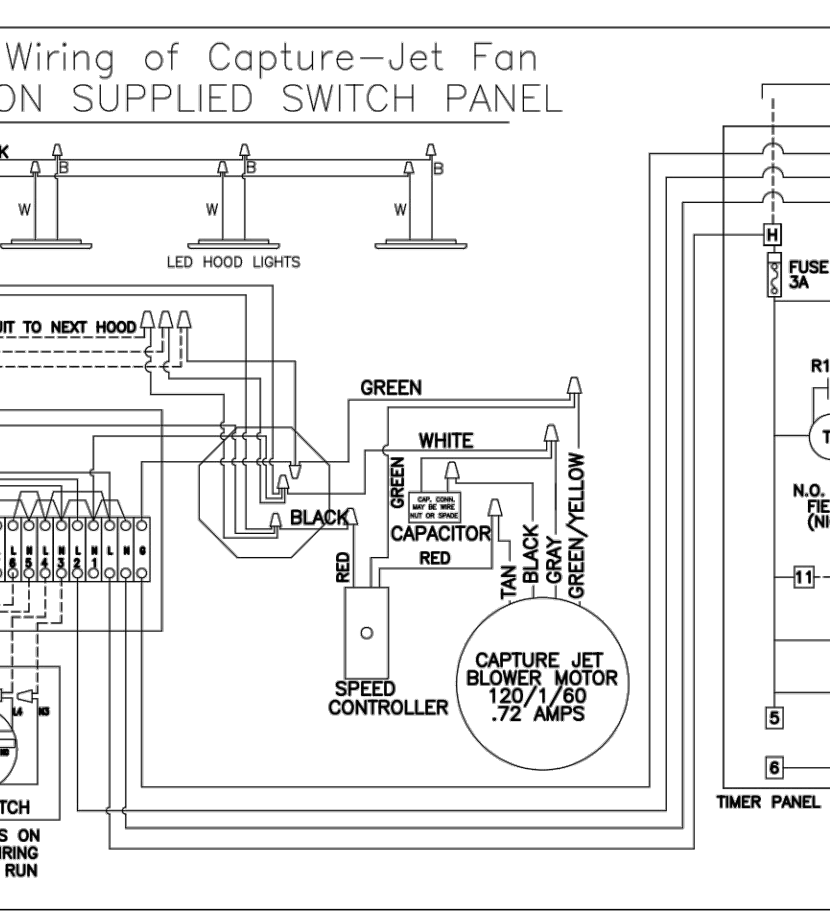
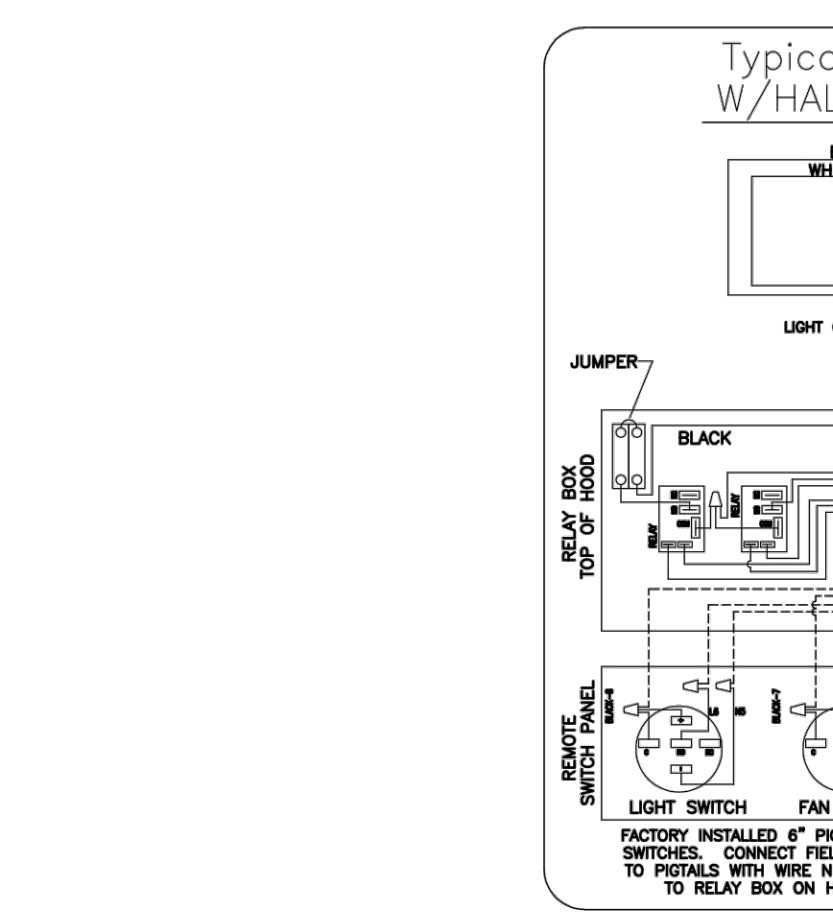
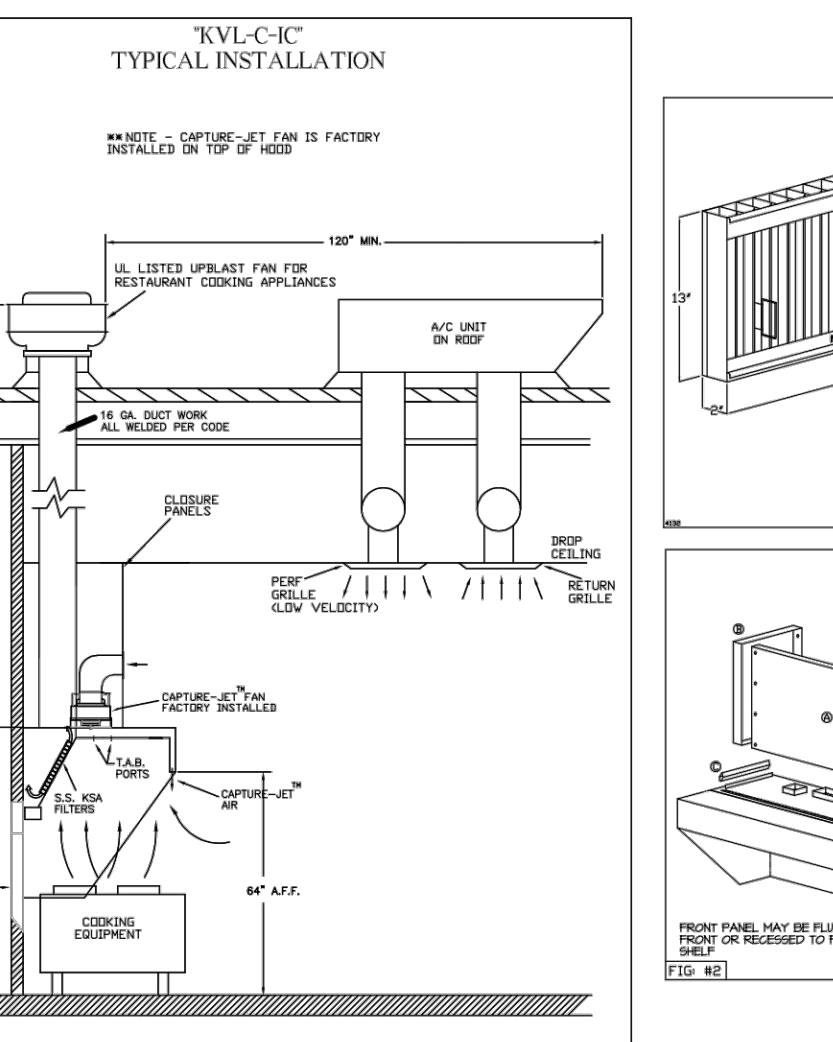
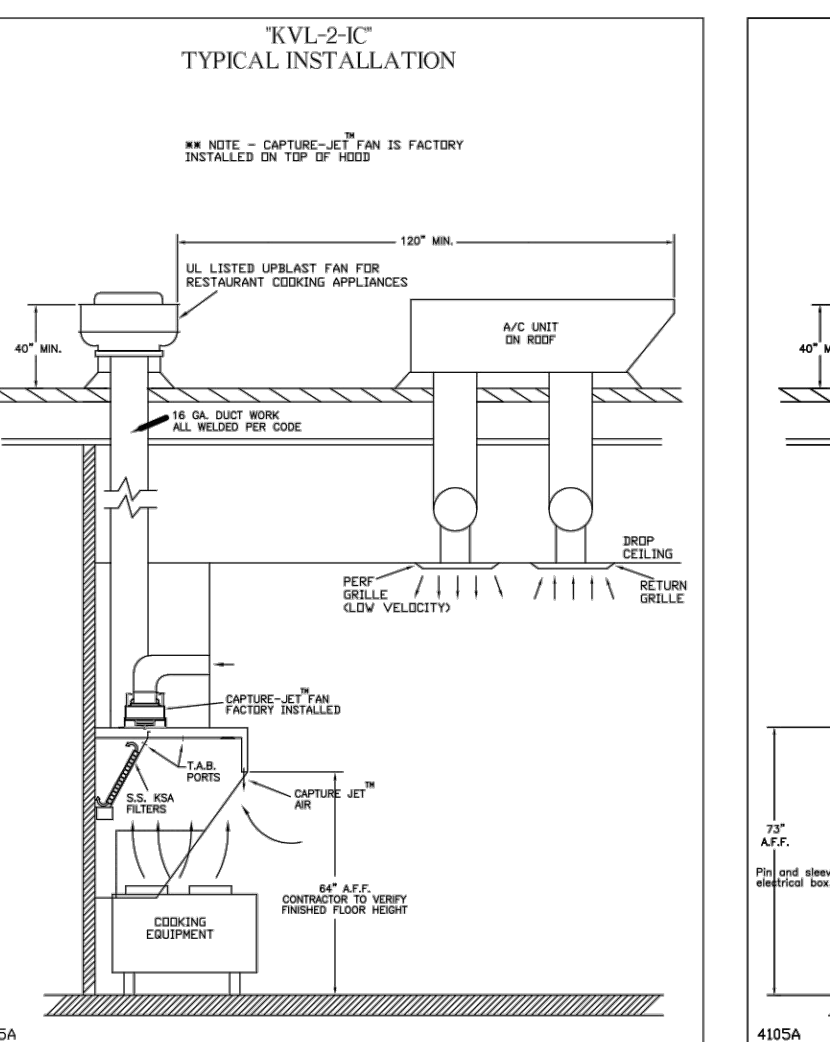
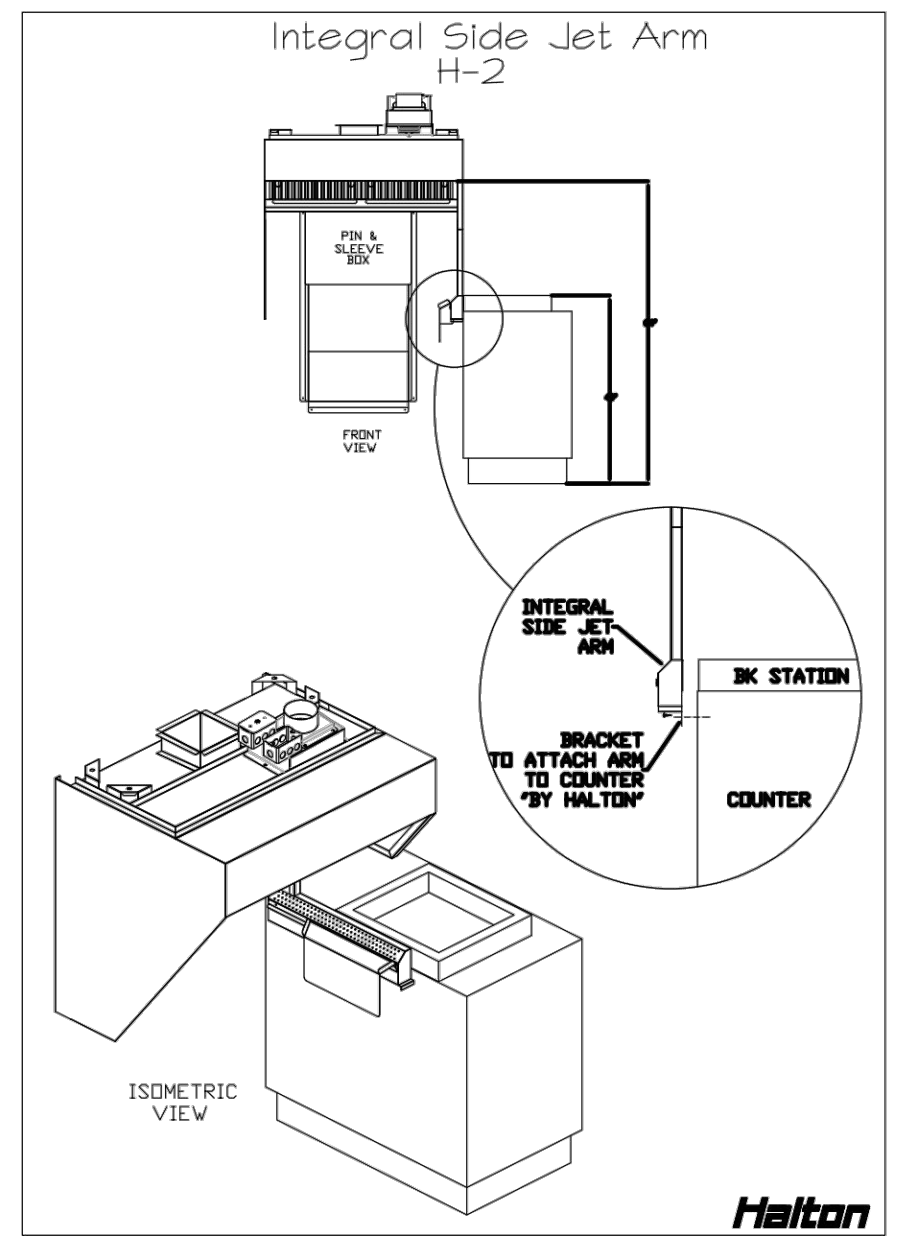
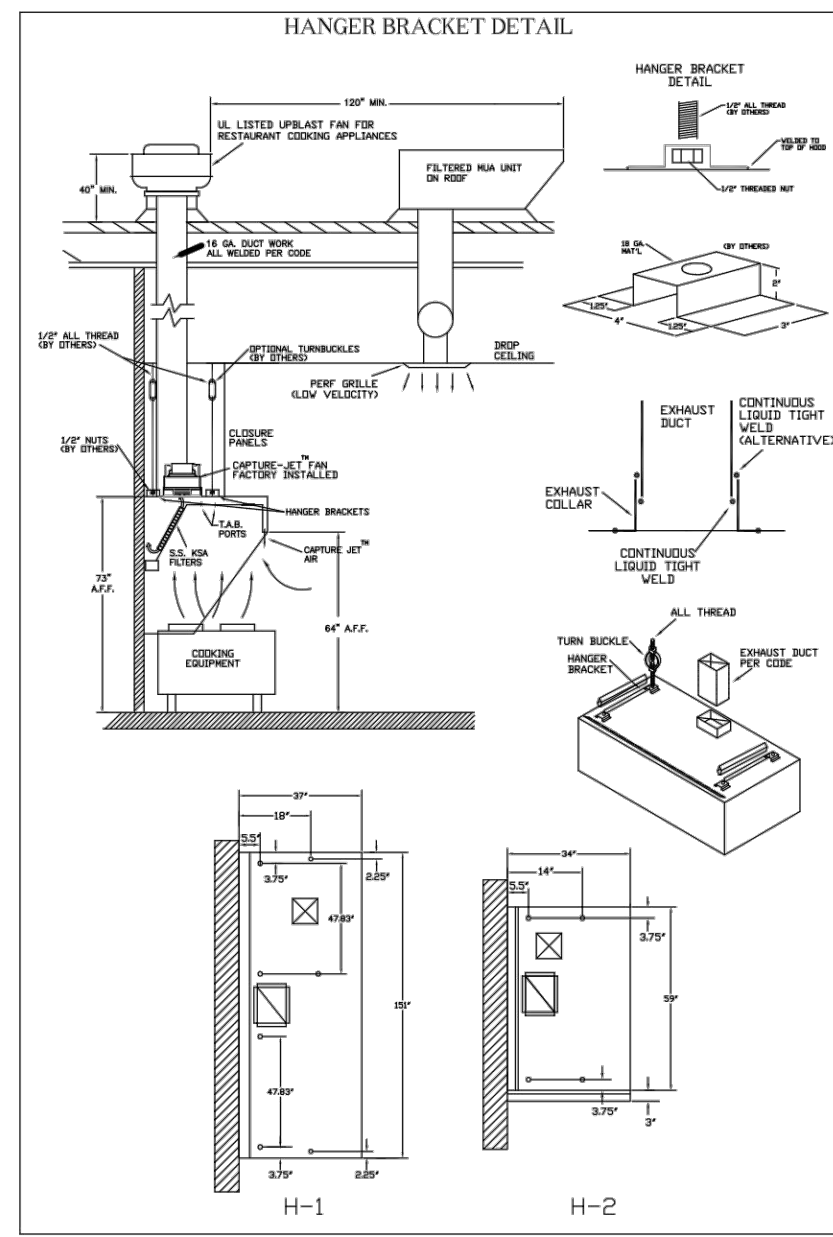
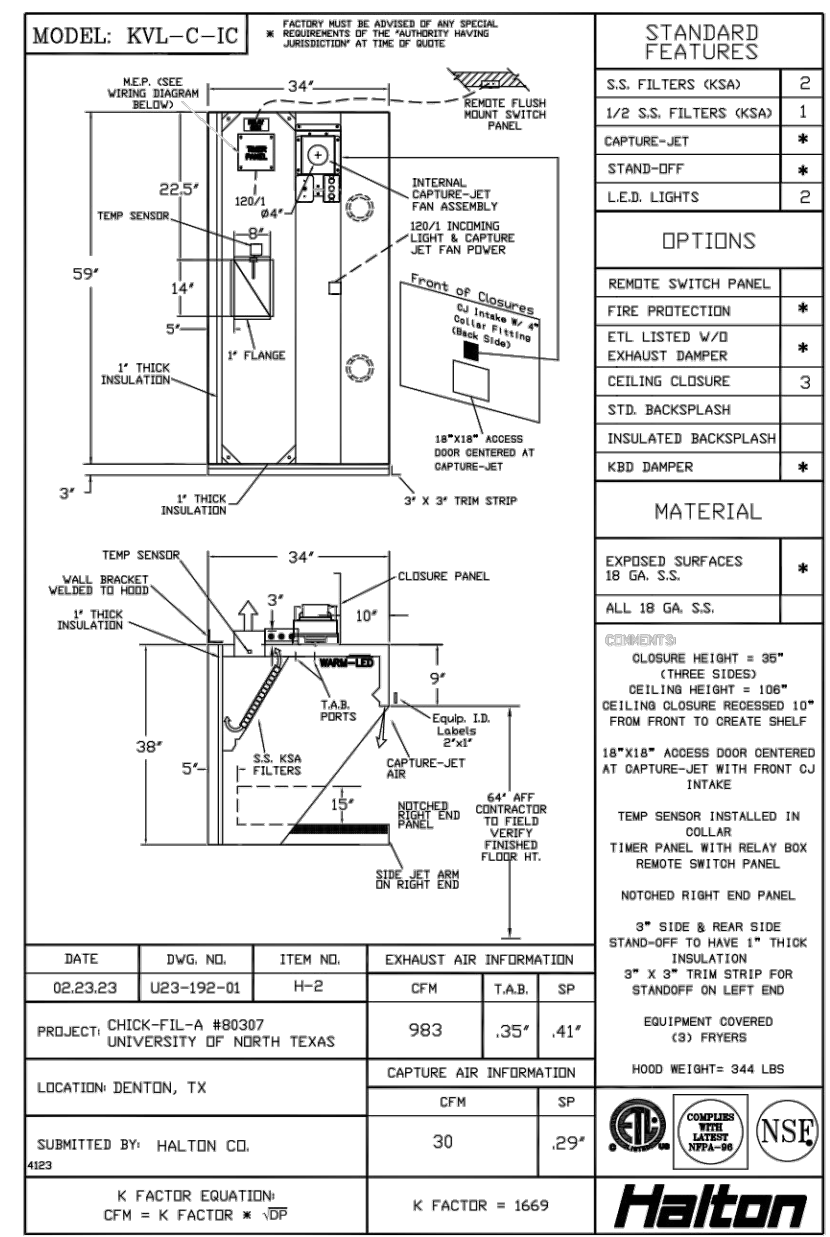
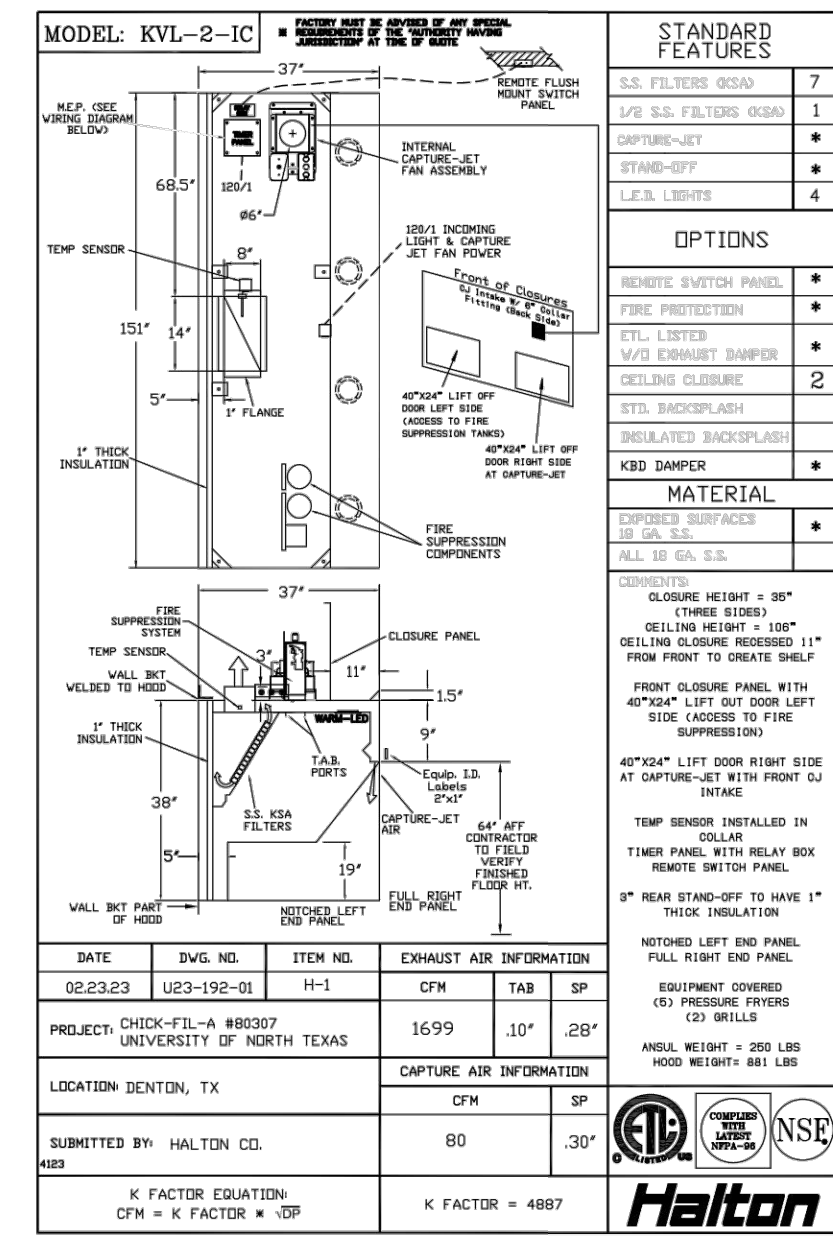


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MECHANICAL SPECIFICATIONS

SHEET NUMBER

M3.00



HALTON HOODS

- ETL LISTED PER LATEST 710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED

BUY LEVEL	HUMAN OVERSIGHT	APPROVED BY	DATE	REV	DESCRIPTION
HEAVY	1	1	02.23.23	1	ISSUE FOR CONSTRUCTION

PROJECT: CHICK-FIL-A #80307 UNIVERSITY OF NORTH TEXAS

DRAWING NO.: U23-192-01

SHEET NO.: H-1.1

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. AND CLEARANCES.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCURRING, A RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION: WITH NO CHANGES WITH CHANGES AS NOTED



DATE	BY	REVISION DESCRIPTION

WEBSITE: www.halton.com

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 101 INDUSTRIAL DRIVE
 SCOTTSVILLE, KY 42164
 1-800-864-0301

HALTON CO. (CANADA)
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CHICK-FIL-A

U. OF NORTH TEXAS

STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307

BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT #: 22-MAY-012
 PRINTED FOR: CONSTRUCTION DOCUMENTS
 DATE: 2/28/2023
 DRAWN BY: RTM



MECHANICAL HOOD PACKAGE

SHEET NUMBER

M4.00

BIM 360/INC_05197_Cape Fear Valley Med Center_ARC.nrt
 10/19/2022 10:59:42 AM
 05197-A-201-FLOOR PLAN

MUA CHART	
DATA	IMPERIAL
Model	MUA-DGX-2800
Max. Supply Air	2800 CFM
Design Supply Air	2146 CFM
Internal S.P.	2.71 W.G.
External S.P.	0.75 W.G.
Total S.P.	3.46 W.G.
Motor BHP	3 bhp
Fan HP	1.96 hp
Full Load AMPS	10.1
Motor RPM	1800
Voltage/Phase/HZ	208/3/60
Fan RPM	1862 @ 60 HZ
Mounting	Exterior
Blower Model	ATLI 9 - 8 T2
Material Type	G90 Galv. 20GA.
Paint Color	Unpainted
Weight	2336 lbs

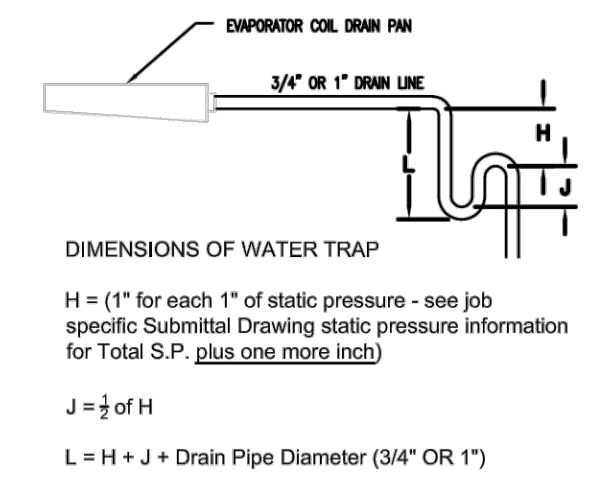
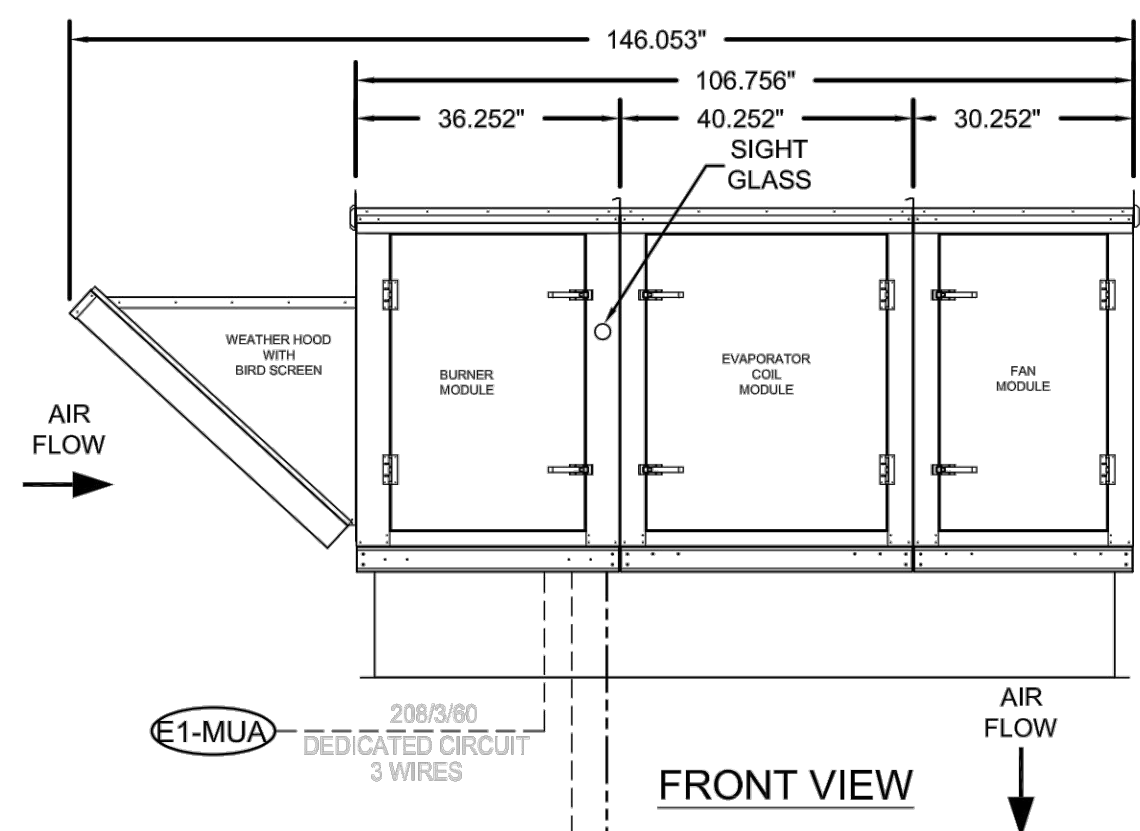
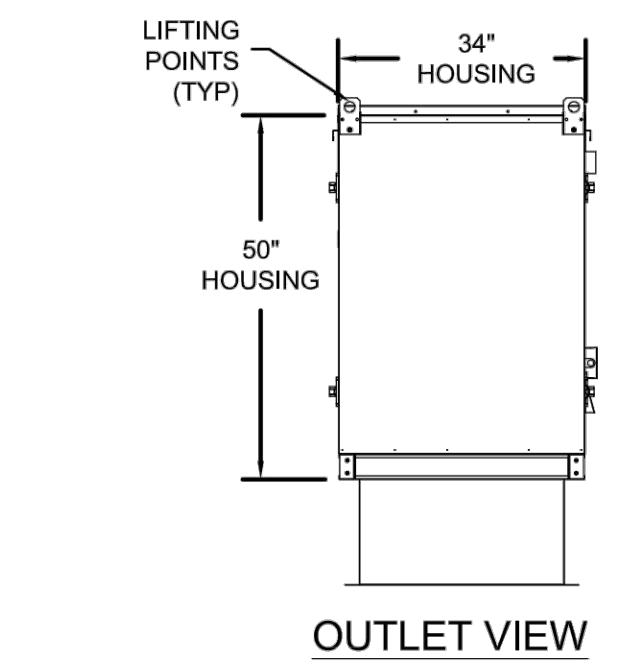
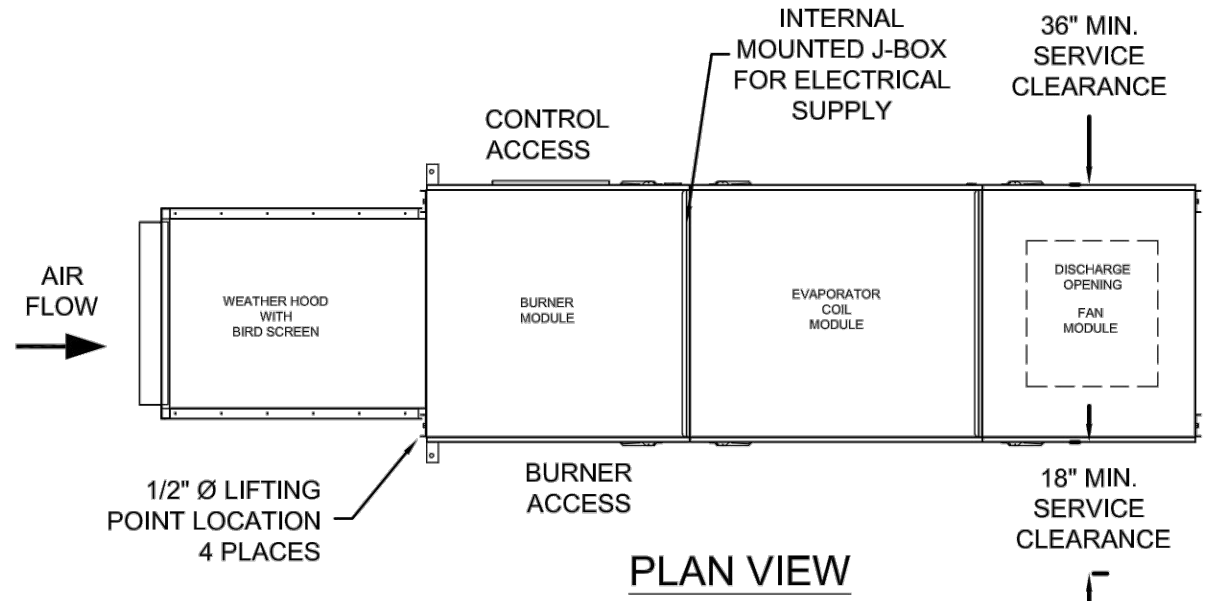
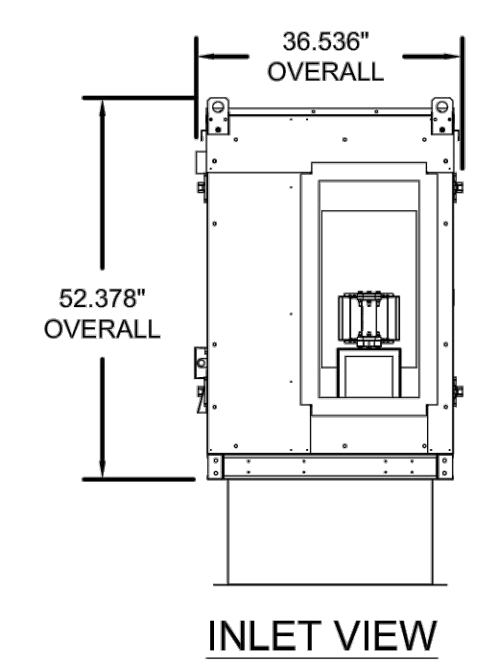
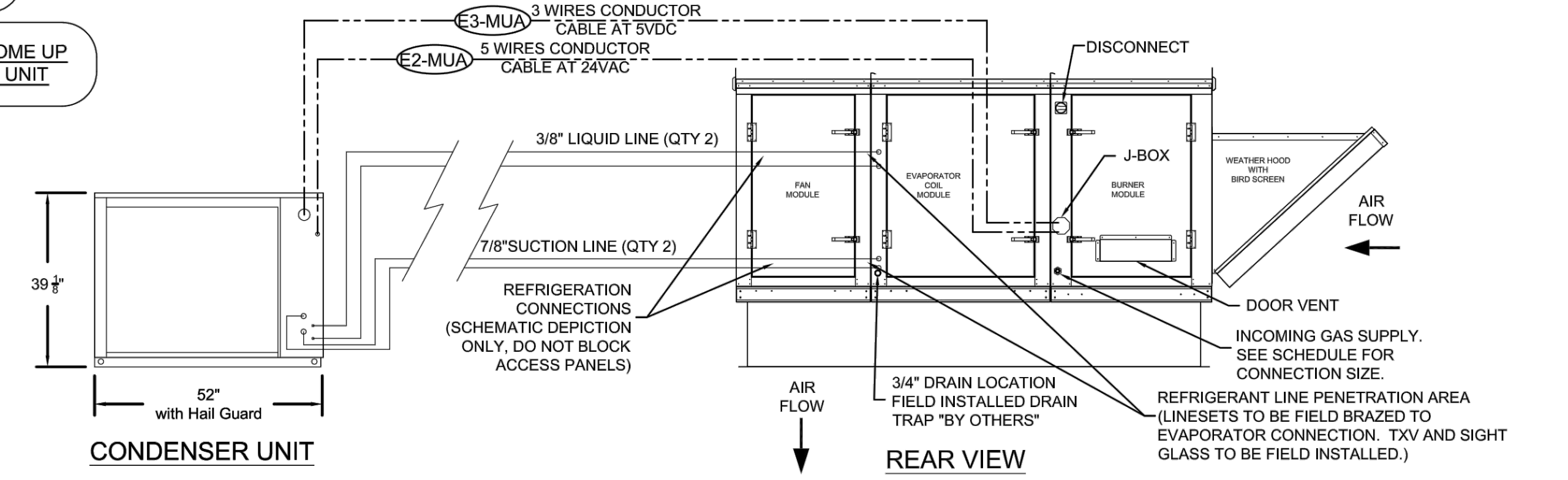
HEATING INFORMATION	
Gas Type	Natural
Min. Gas Pressure	8" W.C.
Max. Gas Pressure	14" W.C.
Gas Line Size	1/2"
Discharge Temperature	70.0°F
Temperature Rise	49°F
Heat Input MBH	123.4
Heat Output MBH	113.5

COOLING INFORMATION	
Cooling Coil Entering DB Temp.	101.7°F
Cooling Coil Entering WB Temp.	75°F
Off Coil DB Temp.	68.9°F
Off Coil WB Temp.	65.5°F
Cooling Coil Total Capacity	75.9 MBH
Cooling Coil Sensible Capacity	75.9 MBH
Cooling Coil Latent Capacity	0 MBH

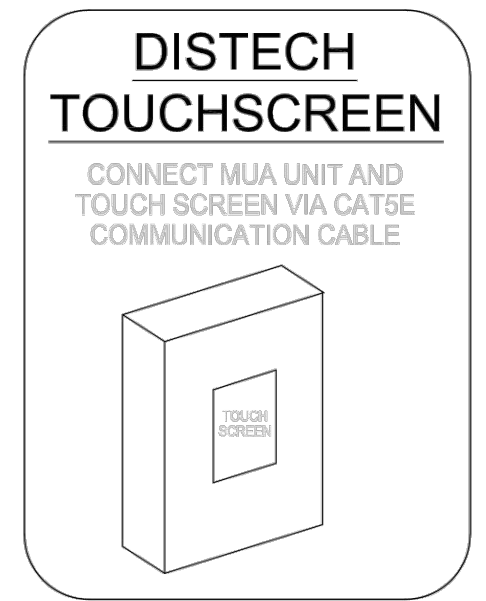
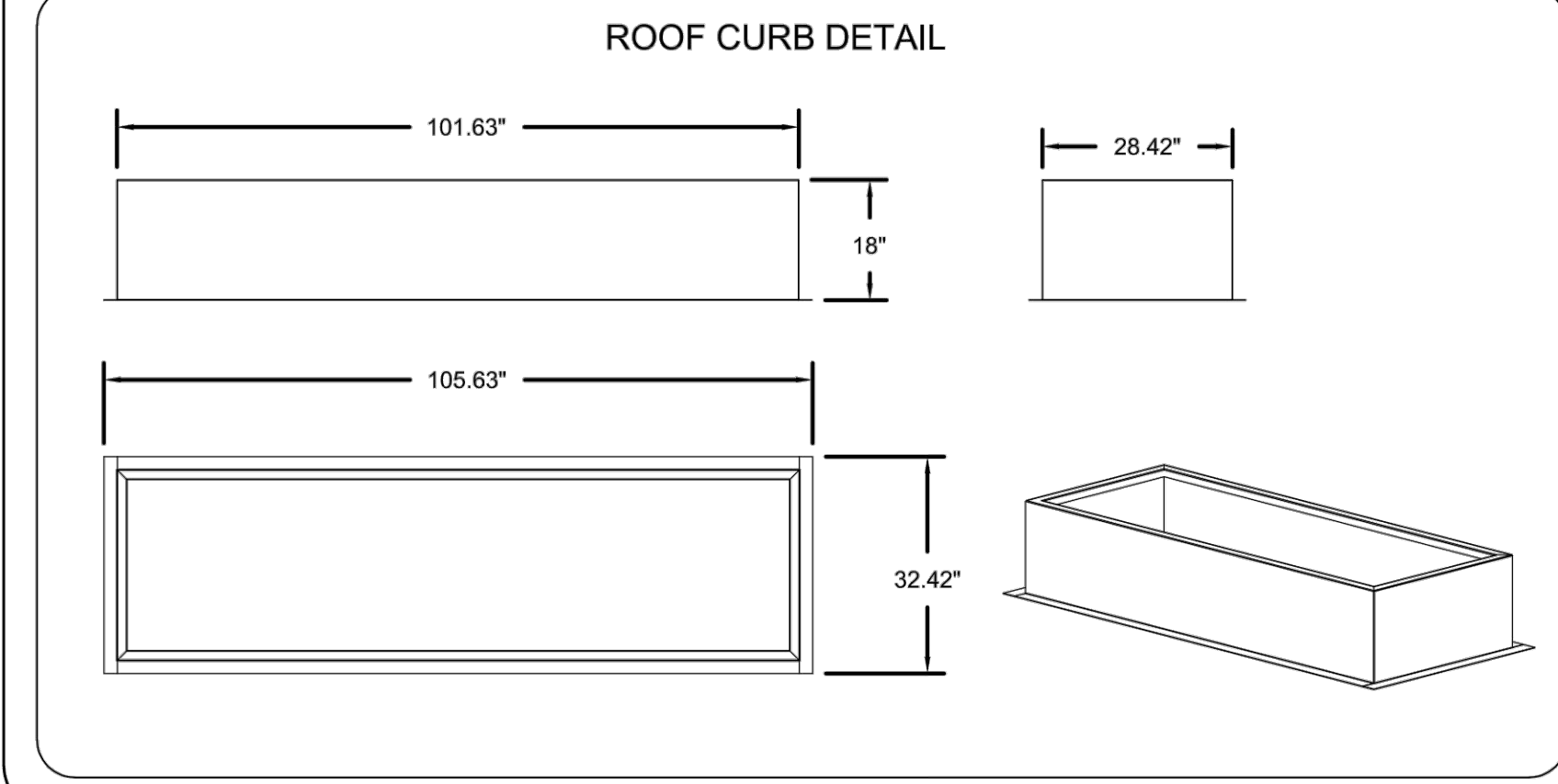
UNIT FEATURES	
Drive Package:	<input checked="" type="checkbox"/> Belt Drive Fan (Comefri ATLI) <input checked="" type="checkbox"/> Direct Drive Plenum Fan (Comefri ANPA)
Insulation:	<input checked="" type="checkbox"/> 1" Duct Board <input type="checkbox"/> No Insulation
Unit Mounted D.A.T. Controls (temperature)	
Remote start/stop Controls (fan)	
Isolators:	<input checked="" type="checkbox"/> Neoprene <input checked="" type="checkbox"/> Seismic
Intake Damper:	<input checked="" type="checkbox"/> Motorized <input checked="" type="checkbox"/> Gravity
Gas Train:	<input checked="" type="checkbox"/> Piped <input checked="" type="checkbox"/> Direct Spark
Drive Package:	<input type="checkbox"/> Constant Volume. <input checked="" type="checkbox"/> Variable Speed: Powerflex 523 VFD Danfoss VFD Fuse size: _____ <input checked="" type="checkbox"/> Weg VFD
Roof Curb:	<input checked="" type="checkbox"/> w/ Insulation <input checked="" type="checkbox"/> w/ Wood Nailer
Intake Hood w/ 2" Alum. Mesh Filters & Birdscreen	
MERV 8 Filtered Intake (Dust Filter)	
Filter Dryer	
R-410A DX Cooling Coil	
Stainless Drain Pan and Drain	
Galvanized Cooling Coil Frame	
TVX & Sight Glass:	<input checked="" type="checkbox"/> Remote Condenser (Shipped Loose) <input checked="" type="checkbox"/> Package Unit (Factory Installed)
PLC Compressor Staging Controls by Halton (Programmed Setpoints)	
D.A.T. Controller (Diotech Unitouch):	<input checked="" type="checkbox"/> D.A.T. Control <input checked="" type="checkbox"/> Space Temp Control
LCD Remote Display Unit:	<input checked="" type="checkbox"/> D.A.T. Control <input checked="" type="checkbox"/> Space Temp Control
Freeze Stat	
Cooling Coil Moisture Eliminator	

ITEM #MUA-1

ELECTRICAL CONNECTION WILL COME UP THROUGH CURB INTO BOTTOM OF UNIT



ELECTRICAL SCHEDULE			
CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-MUA	208/3/60 - FAN MOTOR POWER - 3 WIRES	BUILDING SOURCE	J-BOX
E2-MUA	5 WIRES CONDUCTOR CABLE - 24VAC	MUA UNIT	CONDENSER UNIT
E3-MUA	3 WIRES CONDUCTOR CABLE - 5VDC	MUA UNIT	CONDENSER UNIT
E4-MUA	CONTACT CLOSURE TO START/STOP MUA UNIT	REMOTE PANEL	MUA UNIT
E5-MUA	CATS CABLE FROM DISTECH TOUCH SCREEN	TOUCH SCREEN	MUA UNIT



SPECIFICATIONS		
GAS INFORMATION	ELECTRICAL INFORMATION	EQUIPMENT SPECIFICATIONS
MIDCO 6" SS BURNER	208V / 3PH / 60HZ SUPPLY	ENTERING AIR THERMOSTAT/LOW TEMPERATURE CUTOFF
PRESSURE REGULATOR REQUIRED - SEE RATING PLATE	INTEGRAL NON-FUSED DISCONNECT SWITCH	EXTERNAL PROFILE ADJUSTMENT WITH PRESSURE GAUGE
RTC GAS CONTROLS	PREMIUM EFFICIENCY MOTOR	GALVANIZED FINISH
DISCHARGE TEMPERATURE DIAL MOUNTED IN UNIT	INTEGRAL MOTOR STARTER WITH THERMAL OVERLOADS	0" CLEARANCE ON TOP & BOTTOM OF UNIT UNIT SHIPS ASSEMBLED IN ONE PIECE
HIGH TEMP LIMIT SWITCH SET TO 140°F	FIRE PROTECTION INTERLOCK	1" CLEARANCE TO COMBUSTIBLE ON ENDS LISTED 18" FROM COMBUSTIBLE ON SIDES
	REMOTE START/STOP	
	50% MUA TURN DOWN	

THIS DRAWING WAS DESIGNED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: THIS DRAWING IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES TO THIS DRAWING MUST BE NOTIFIED BY ANY OF THE SIGNERS. A REVISION SHEET MUST BE USED TO MAKE ANY CHANGES TO THIS DRAWING. A REVISION SHEET MUST BE USED TO MAKE ANY CHANGES TO THIS DRAWING.

APPROVED FOR FABRICATION: WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____

WEBSITE: www.halton.com

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSVILLE, KY 40244
 1-905-624-4301

DATE: _____ BY: _____

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION
1	02.23.23	ISSUED FOR PERMIT

PROJECT: CFA #80307 UNIVERSITY OF NORTH TEXAS
 LOCATION: DENTON, TX
 DRAWN BY: SKM
 SCALE: NOT TO SCALE
 CONSULTANT: Halton

DRAWING TITLE: U23-192

REV. NO.: _____ SHEET NO.: _____ of _____

Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
 P: (404) 765 8000

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 U. OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	02/28/2023	ISSUED FOR PERMIT

CONSTRUCTION DOCUMENTS

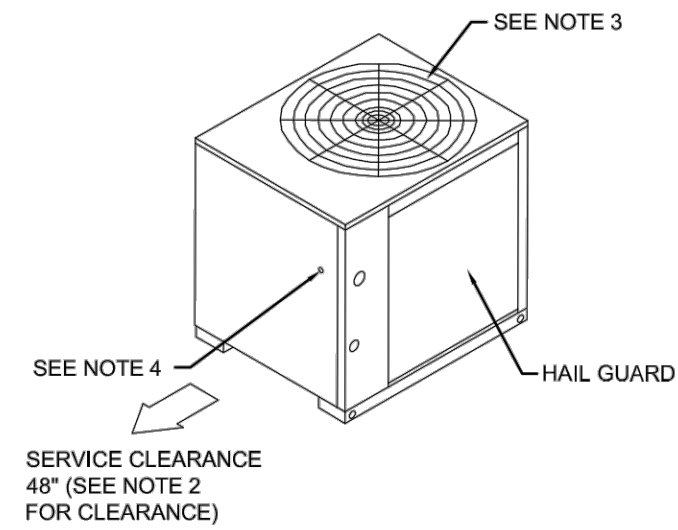
rtm
 engineering consultants
 14901 Quorum Dr. #565
 Dallas, Texas 75254
 rtmecc.com | 972.387.3500

MECHANICAL HOOD PACKAGE

SHEET NUMBER
M4.02

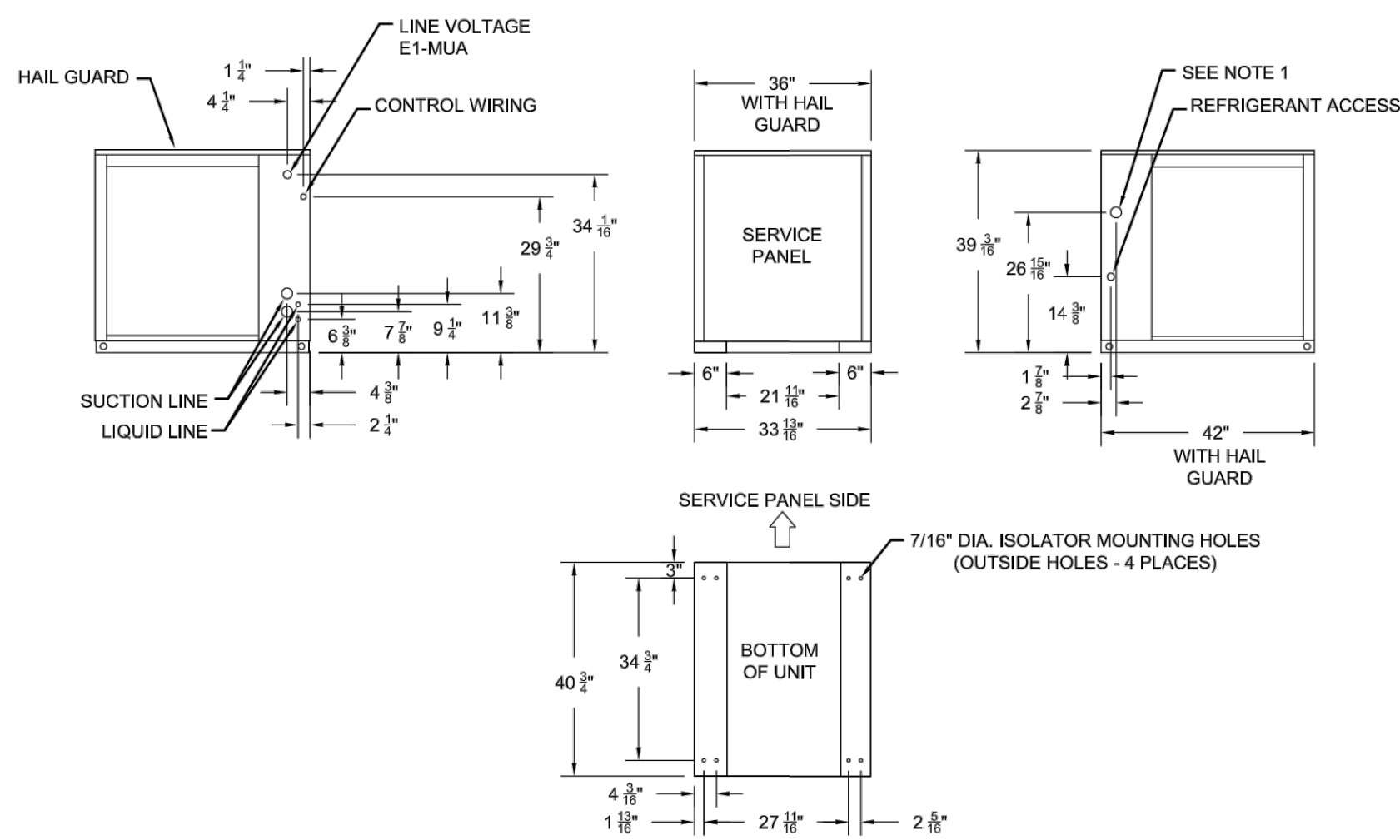
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05197-A-201-FLOOR PLAN

ITEM #CU-1



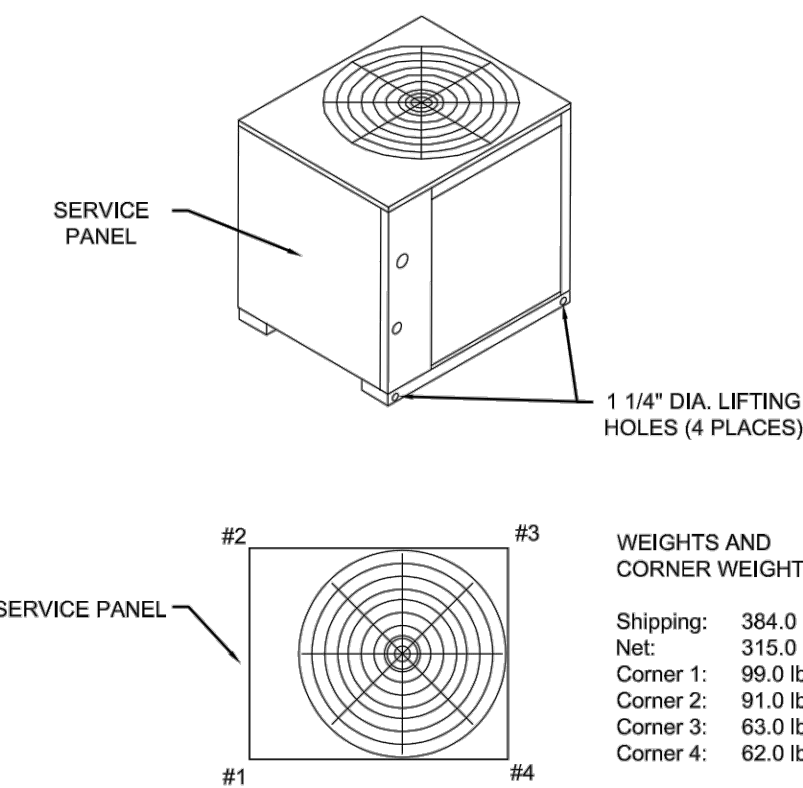
Notes:

- 1. Access opening is for field installed Bayloam accessory.
2. Minimum clearance for proper operation is 36" from walls, shrubbery, privacy fences, etc. Minimum clearance between adjacent units is 72". Recommended service clearance is 48".
3. Top discharge area should be unrestricted for 100" minimum. Unit should be placed so roof run-off water does not pour directly on unit.
4. Outdoor Air Temperature Sensor opening (Do Not Block Opening)



7 1/2 TON COOLING CONDENSER (DUAL COMPRESSOR) DIMENSIONAL DRAWING

Hailguards - TTA Condenser Coil Protection from Hail, Vandals, Etc. Perforated, Painted Galvanized Steel Factory Installed.
TTA Microchannel - General Weatherproofed steel mounting/lifting rails Hermetic scroll compressors Microchannel condenser coils on select models Plate fin condenser coils Fans and motors Standard operating range 50-125°F (min. 0°F with low ambient accessory) Nitrogen holding charge Certified and rated in accordance with AHRI and DOE standards Certified to UL 1995
TTA Microchannel - Casing Zinc coated, heavy gauge, galvanized steel Weather resistant baked enamel finish Meets ASTM B117, 672 hour spray test. Removable single side maintenance access panels Lifting handles in maintenance access panels Unit base provisions for forklift and/or crane lifting
Refrigerations System - Dual Compressor Two (2) separate and independent refrigerant circuits Each refrigeration circuit equipped with integral subcooling circuit Front or rear refrigerant line connections
Two (2) direct drive hermetic scroll compressors Suction gas-cooled motors w/ ± 10% voltage utilization range of unit nameplate voltage Crankcase Heaters Internal temperature and current sensitive motor overloads No compressor suction and/or discharge valves (reduced vibration/sound) Factory installed liquid line filter drier Phase loss/reverse rotation monitor Liquid line service ports Suction line service ports External high pressure cutout devices
TTA Microchannel - Condenser Coil (Microchannel) Microchannel coils burst tested by the manufacturer Coils shall be leak tested to ensure the pressure integrity Factory pressure and leak tested to 660 psig Perforated steel hail guards factory installed
TTA Microchannel - Condenser Fan 26" or 28" propeller fan(s) Direct drive Statically and dynamically balanced
TTA Microchannel - Condenser Motor(s) Permanently lubricated totally enclosed or open construction Built-in current and thermal overloads Ball or sleeve bearing type
TTA Microchannel - Controls Choice of electromechanical or microprocessor Completely internally wired Numbered and colored wires Contactor pressure lugs or terminal block Unit external mounting location for disconnect device Single point power entry
TTA Controls: Electro-Mechanical 24V control circuit Control transformer Thermostat compatible Anti-Short Cycle Timer



WEIGHTS AND LOAD POINT LOCATION FOR CONDENSER WEIGHT AND RIGGING

CONDENSER COIL SPECIFICATIONS

7.5 Ton Trane TTA 208V
Unit Function Cooling
Voltage 208-230/60/3
Refrigeration Circuit/Stage Dual Compressors/Dual Circuit
Unit Tonnage 7.5 Tons
Refrigerant R-410A Refrigerant
Controls Electromechanical
Factory Installed Accessories Condenser Coil Hail/Vandal Guard Kit
Electrical Data Condenser Electrical Data
Model: TTA09043D
Unit Operating Voltage: 187-253
Minimum Circuit Ampacity: 32.0
Maximum Fuse Size: 40.0
Maximum Circuit Breaker: 40.0
Compressor Motor
No.: 2
Volts: 208-230
Phase: 3
Amp-FLA: 13.1/113.1
Amp-LRA: 83.0/83.0
Condenser Fan Motor
No.: 1
Volts: 208-230
Phase: 3
Amp-FLA: 2.2
Amp-LRA: 8.4
Compressor
Number: Scroll
No. Compressor/Tons: 2/3.3
Cooling Stages per Compressor: 1
System Data (7)
No. Refrigerant Circuits: 2
Suction Line (in.) OD: 7/8" Horizontal & Vertical
Liquid Line (in.) OD: 3/8"

ELECTRICAL SCHEDULE

Table with 4 columns: CONNECTION #, CONNECTION DESCRIPTION, FROM, TO. Row 1: E1-MUA, 208/3/60 - FAN MOTOR POWER - 3 WIRES, BUILDING SOURCE, CU-1

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. ALL DIMENSIONS.
3. TYPE OF COOLING EQUIPMENT.
NOTE TO APPROVER:
ANY CHANGES TO COOLING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES REQUIRING A RECALCULATION OF AIRFLOW MUST BE APPROVED BY THE APPROVED FOR FABRICATION.
APPROVED FOR FABRICATION: [Signature]
WITH NO CHANGES [] WITH CHANGES AS NOTED []
DATE: []

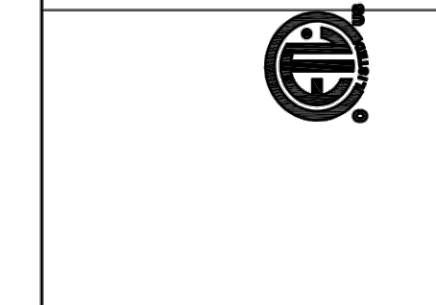


Table with columns: REV, DATE, DESCRIPTION. Includes project information for Halton Co. (USA) and Halton Co. (Canada).

PROJECT: CHICK-FIL-A #80307 UNIVERSITY OF NORTH TEXAS
DRAWING TITLE: MUA-DGX-4600
DRAWING No.: U23-192
REV. NO.: 0 SHEET NO.: 4 of 5



Chick-fil-A logo
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FOR REFERENCE ONLY

CHICK-FIL-A
U. OF NORTH TEXAS
STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203

LCV#80307
BUILDING TYPE / SIZE: LCV
RELEASE: 20.11

REVISION SCHEDULE table with columns: NO., DATE, DESCRIPTION

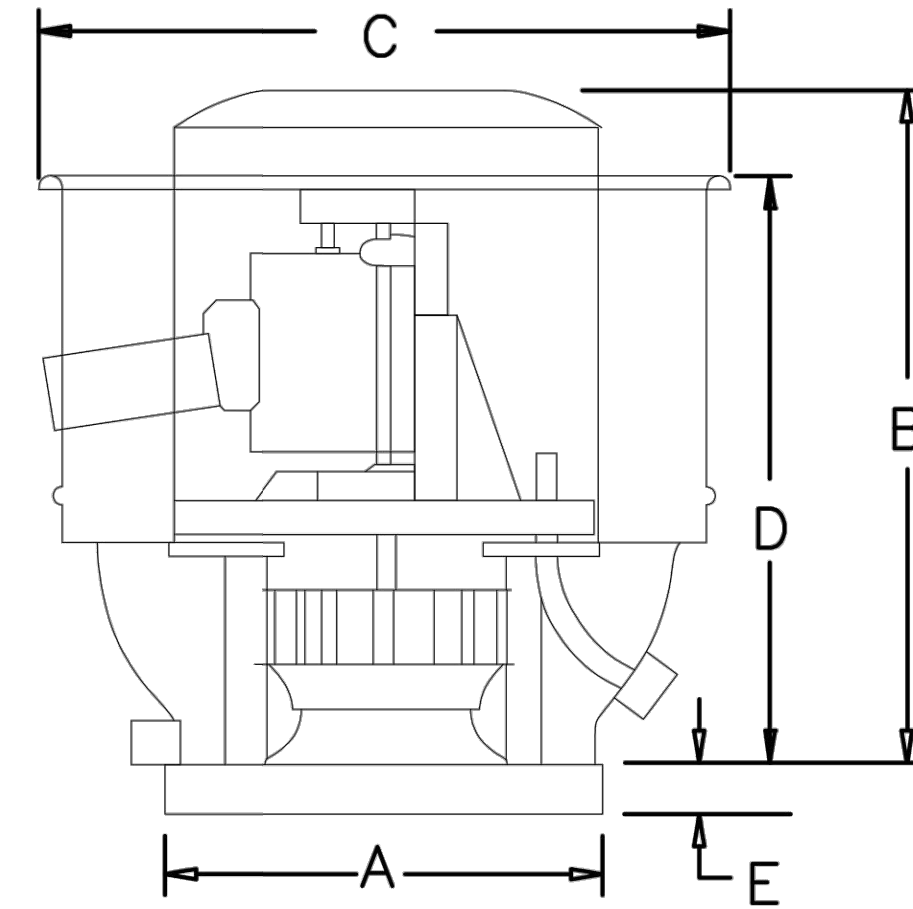
CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22-MAY-012
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 2/28/2023
DRAWN BY RTM

MECHANICAL HOOD PACKAGE
SHEET NUMBER

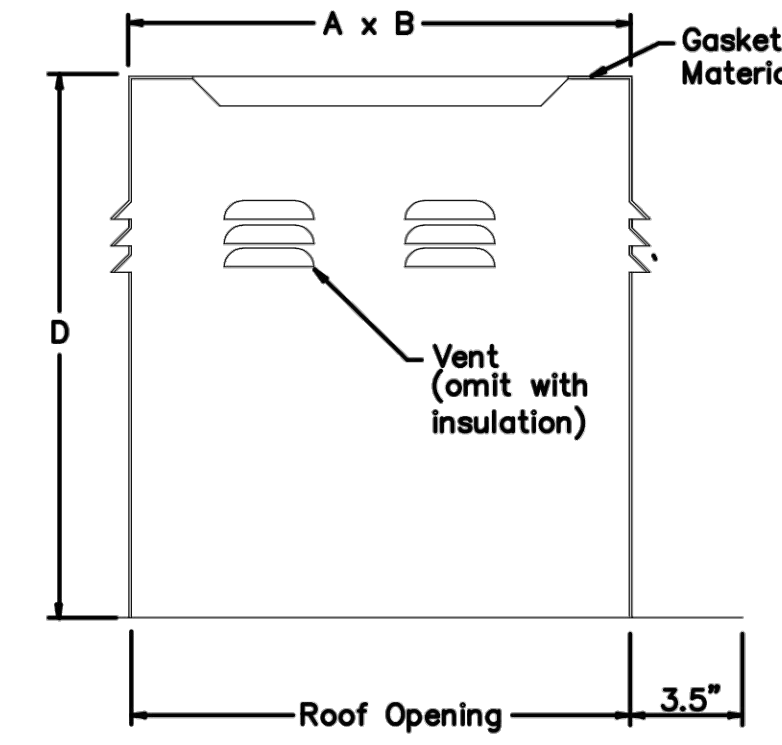
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FAN INFORMATION TABLE								
FAN NO	MODEL	QTY	CFM	S.P.	H.P.	VOLTAGE	AMPS	ACCESSORIES
EF-1	HSTXBRHUL15-3/4	1	1699	1	1	208/1/60	8.8	MOUNT & WIRE DISCONNECT, GALV SF CURB, LABEL UL 762, BELT TENSIONER ASSY, GREASE CONTAINER, HINGE KIT



TAG	SIZE	A	B	C	D	E	F	G	H	SHIP'G WT.
EF-1	15-3/4	24"	31.5"	36.5"	26.63"	2"	18"	19.5"	22.5"	159

CURB
 CURB TYPE: GSFRC



- OPTIONS: (as noted below)
- 1) 4 VENTS
 - 2) NO DAMPER SHELF

TAG	DESCRIPTION	MATERIAL GAUGE	A	B	C	D (ht)	ROOF OPENING	OPTIONS
EF-1	GSFRC	22.5	18	22.5	1.5	18	19.5"x19.5"	1,2

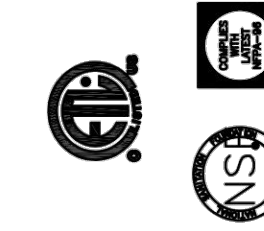
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1. ALL DIMENSIONS, INFORMATION, MOUNTING POSITIONS AND EXPLANATIONS.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES SUCH AS REGULATIONS MUST BE NOTED AND APPROVED BY THE MANUFACTURER. CHANGES TO THIS DRAWING WITHOUT APPROVAL WILL BE AT THE USER'S RISK.

REUSE AND RESUBMIT APPROVED FOR FABRICATION WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REV.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

WEBSITE: WWW.HALTON.COM

HALTON CO. (CANADA)
 1021 BREVIK PLACE
 MISSISSAUGA, ON L4W 3R7
 1-905-624-0381

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSVILLE, KY 42164
 1-270-237-5600

PROJECT: CHICK-FIL-A #80307
 UNIVERSITY OF NORTH TEXAS

LOCATION: DENTON, TX

SCALE: NOT TO SCALE

CONSULTANT: **Halton**

DRAWING No.: U23-192

REV. No.: 0 SHEET No.: 5 of 5

Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia 30349-2998
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LCV#80307
 BUILDING TYPE / SIZE: LCV
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CONSULTANT PROJECT # 22.MAY.012
 PRINTED FOR CONSTRUCTION DOCUMENTS
 DATE 2/28/2023
 DRAWN BY RTM

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SHEET
 MECHANICAL HOOD PACKAGE

SHEET NUMBER

M4.04

rtm
 engineering consultants
 14901 Quorum Dr. #565
 Dallas, Texas 75254
 rtmecc.com | 972.387.3500

COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information
 2018 IECC
 Chick-Fil-A - University of North Texas
 Denton (Denton), Texas
 Climate Zone: 3a
 Alteration
 Construction Site: 1155 Union Circle, Denton, TX 76203
 Owner/Agent: Chick-Fil-A, 5200 Burfington Road, Denton, TX 76203
 Designer/Contractor: RTM Engineering Consultants, 14901 Quorum Drive, Dallas, TX 75234

Mechanical Systems List
 Quantity: 1
 System Type & Description: HVAC System 1 (Single Zone)
 Heating: 1 each - Central Furnace, Gas, Capacity = 123 kBtu/h
 Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00 % E1 or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 76 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 11.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER
 Fan System: Unpowered

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
 Brian Lake
 Name - Title: _____ Signature _____ Date: 02/28/2023

COMcheck Software Version 4.1.5.5
Inspection Checklist
 Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (ME12)	Plans, specifications, and/or calculations provide all information with which compliance can be determined.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 (F027)	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. Future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req. ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 (F097)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.4 (F177)	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 (F087)	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user or a fixture or appliance and limits the temperature of the water entering the cold water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 (ME417)	Thermally ineffective panel surfaces of emulated heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.8.3 (ME357)	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system mg.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.8.3 (ME177)	Fans have efficiency grade (IEG) >= 67. The total efficiency of the fan at the design point of operation <= 13% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.12.1 (ME177)	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.3 (ME157)	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.5.5 (ME135)	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 (ME597)	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7.1 (ME597)	Demand control ventilation provided for spaces >= 500 ft ² and >= 25 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >= 3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7.2 (ME155)	Enclosed parking garage ventilation has automatic contaminant detection and capacity to purge or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7.6 (ME417)	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms. Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7.4 (ME577)	Exhaust air energy recovery or systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 (ME1167)	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.11.1 (ME407)	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may refer to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.1 (ME667)	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.2 (ME1247)	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.3 (ME1257)	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.3 (ME1267)	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.1 (ME637)	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 60°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.3.3 (ME357)	Hot gas bypass limited to <= 240 kBtu/h - 50% > 240 kBtu/h - 25%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.2 (ME537)	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5 (ME1237)	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 (EL267)	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 (EL277)	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2 (EL287)	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 (EL297)	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C403.3 (F187)	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2 (F1277)	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4 (F1477)	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.1 (F1387)	Thermostatic controls have a 5°F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4 (F1207)	Temperature controls have setpoint override restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4 (F1407)	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4 (F1407)	Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7-day clock; 2-hour occupant override; 10-hour setback.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.1.1 (F1577)	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.1 (F1287)	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3 (F1597)	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3 (F1107)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.1 (F1307)	Ecconomizers have been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.1 (F1297)	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.3 (F1777)	Furnished HVAC so built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5 (F13107)	An air and/or hydronic system balancing report is provided for HVAC system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5 (F13107)	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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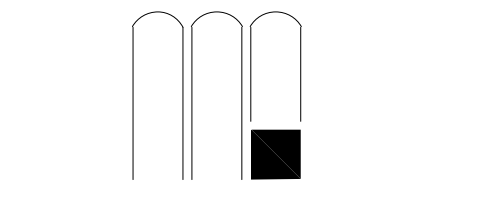
Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
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C403.2.1 (F1297)	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.3 (F1777)	Furnished HVAC so built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
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 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV / LCV
 RELEASE: 20.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 21136
 PRINTED FOR CONSTRUCTION DOCUMENTS
 DATE 3/13/2023 12:55:46 PM
 DRAWN BY RTM

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SHEET MECH COMCHECK

SHEET NUMBER

M4.05

BIM:360/ITX_80307_University of North Texas_2021.12_SAT80307_University of North Texas_RELOCATION_ARC.rvt
 3/13/2023 12:55:46 PM
 80307-MA.05-MECH COMCHECK

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3
STANDARD PROVISIONS
PART 1 - GENERAL
1.01 GENERAL:
A. Related Work Specified Elsewhere:
1. The general provisions of the Contract, including General and Supplementary Conditions, Instructions to Bidders and General Requirements, apply to the work specified in this Division.
2. This section applies to all aspects of Division 15 and is intended to be complementary to the General Conditions, Supplemental General Conditions, and General Requirements.
3. Furnish all labor, materials, services, equipment and appliances required for the complete furnishing and installation of the Mechanical systems, including Plumbing, Heating, Ventilating and Air Conditioning and Fire Protection.
4. The use of the words "provide," "furnish," or "install" means that the item or facility is to be both furnished and installed unless expressly stated otherwise.
5. The term "Contractor" used in this Division of the Specifications shall mean the "Mechanical Sub-Contractor," "Plumbing Subcontractor," or "Fire Protection Subcontractor."
6. Refer to the energy code report submitted to the city for building permit on this project. Listed are requirements for compliance for mechanical and plumbing systems. These shall be followed for equipment selection, installation, and commissioning.
B. Refer to Architectural Supplements for the scope of the Project.
2. The contract documents and complete scope of work are illustrated on the combined Architectural, Structural, Plumbing, Heating, Ventilating and Air Conditioning, and Electrical drawings. Review and examine the complete set of contract documents.
3. Refer discrepancies, errors, omissions and ambiguities in the contract documents to the Architect. Otherwise, provide materials and labor to resolve same in a manner approved by the Architect at no additional cost to the Owner.
4. The intent of the drawings and specifications is to provide complete systems. Items included in one and not the other are the effect, as if included in both. Provide miscellaneous items and accessories required for complete systems.
5. Items indicated by one discipline and not included in another discipline drawings and specifications shall be provided as if included, at no additional costs to the Owner.
C. Description of System:
1. Facilities and systems of plumbing work in general include, but are not limited to the following:
a. Basic Materials and Methods.
b. Plumbing System.
c. Heating, Air Conditioning and Ventilating System. (gas and condensate)
d. System Controls.
2. Provide labor, materials, equipment and accessories for complete systems whether or not specifically included in the Contract Documents.
3. Drawings are diagrammatic and contain graphic representations, schedules and notations showing mechanical work. Follow drawings as closely as actual construction will permit. Make deviations from drawings for conformance to actual construction at no additional costs to the Owner. Refer items requiring clarifications and interpretations to the Owner's representative for resolution; provide work as resolved at no additional costs to the Owner. Deviations for reasons other than described above, if deemed necessary, shall be submitted to the Owner's representative for approval. Do not make deviations without written approval.
D. Definitions:
1. The Contractor is responsible for the Work of Sub-Contractors.
2. Furnish - Supply Materials.
3. Install - Install Materials.
4. Provide - Furnish and Install Materials.
5. Approval - Written authority to proceed from the Architect.
1.02 QUALITY ASSURANCE:
A. Workmen Qualifications: Skilled mechanics competent in their trades, licenses where required by authorities having jurisdiction.
B. Requirements of Authorities Having Jurisdiction:
1. Determine authorities having jurisdiction and the applicable codes, rules and regulations of those authorities.
2. Perform work in conformance with the requirements of authorities having jurisdiction.
3. Obtain all permits, licenses and inspections as required by all authorities having jurisdiction. Give all notices and comply with all Laws, Ordinances, Rules, Regulations and Contract bearing on the work.
4. In cases of differences between requirements of the various authorities having jurisdiction, exceed the lesser requirements and meet the greater, more stringent requirements.
5. All fees and costs for permits, licenses, or inspections shall be paid by this Contractor unless expressly stated otherwise.
C. Codes:
1. The installation of the mechanical systems shall conform to the requirements of the National Fire Protection Association (NFPA), local and state codes having jurisdiction, and the requirements of the Utility Companies whose services are used.
2. Codes and ordinances having jurisdiction over the work shall serve as minimum requirements; but, if the Contract Documents indicate requirements which are in excess of those minimum requirements, then the requirements of the Contract Documents shall be followed. Should there be any conflicts between the Contract Documents and codes or any ordinances having jurisdiction, report these to the Architect.
D. Reference Standards: All systems installed by this contractor shall be updated and modified in accordance with the following codes and standards, but in no instance shall the standards be less than the requirements of other paragraphs of these contract documents.
1. Specified manufacturer's instructions and recommendations.
2. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).
3. National Fire Protection Association (NFPA).
4. Underwriters Laboratories (UL).
5. Americans with Disabilities Act (ADA).
6. Local code authorities.

1.03 SHOP DRAWINGS AND SUBMITTALS DATA:
A. Before submittal of the data, the Contractor shall check each piece of apparatus, equipment and accessory to ensure compliance with the requirements of the Plans and Specifications and shall clearly mark each submittal with his signature to indicate that they are in full compliance with the specifications and plans. The Contractor shall verify that all associated trades are aware of their work concerning the equipment submitted. Any submittals received without the Contractor's signature may be returned without being checked by the Architect's office.
B. Certificates:
1. Provide certificates required by contract documents and by authorities having jurisdiction.
2. Provide Underwriters Laboratories seals affixed to materials.
C. Test Reports: Provide copies of test reports required by contract documents and by authorities having jurisdiction.
D. Approval, disapproval, or comments on submittals shall not relieve the contractor of the requirements of the specifications or the drawings.
1.04 PRODUCT DELIVERY, STORAGE AND HANDLING:
A. Delivery: Deliver equipment and materials in unopened manufacturer's standard packaging. Any piece of equipment placed on the job site without prior written review shall be subjected to removal.
B. Storage: Store equipment and materials where not subjected to damage from personnel and the elements.
C. Handling: Avoid damage to materials and surrounding surfaces and finishes before and during installation.
1.05 EXAMINATION OF PREMISES:
A. This Contractor shall visit the site to become fully acquainted with the immediate and surrounding premises and the conditions under which the work will be executed.
1.06 SUBCONTRACT AND LABOR:
A. All provisions of this Section shall apply to all Subcontracts to the extent that they are applicable to such Subcontractor.
1.07 ACCEPTANCE OF WORK:
A. The work, when completed, will be accepted in a finished, perfect and undamaged state only. This Contractor shall provide for protection of the work during its progress and, if damaged, all patching or replacing necessary to its full and satisfactory completion.
1.08 COMPLETE SYSTEMS:
A. It is the intention that this Specification shall provide a complete installation. All auxiliary construction equipment and apparatus necessary or advantageous to the operation and testing of the work shall be included. The omission of specific reference to any part of the work necessary for such complete installation shall not be interpreted as relieving this Contractor from furnishing and installing such parts.
1.09 WARRANTY:
A. Warrant the work for one year from and after date of beneficial occupancy to include freedom from defects for materials, equipment and labor. Replace defective work during the warranty period. All manufacturers shall be five year non-prorated warranty.
B. The one year warranty provided in the General Conditions shall be in addition to and not in limitation of any guarantees or warranties of longer duration or other remedies provided by law of the Contract Documents.
C. The warranty shall include supervision and adjustment, any maintenance recommended by the equipment manufacturer or contractor or inspections. Also included in the warranty is any refrigerant lost or leaked in normal operation or in service of equipment. Provide four charge changes at approved intervals during the warranty period.
PART 2 - PRODUCTS
2.01 MATERIALS:
A. New, free from defects, of quality commercial grade standard material by reputable manufacturer.
B. Listed by Underwriters Laboratories for which standards apply.
C. In compliance with Contract Documents in regard to quality, dimensions, appearance, design and performance.
D. Similar materials of same manufacture.
E. First named under "Acceptable Manufacturers" is the manufacturer whose product was used for design.
2.02 SUBSTITUTIONS:
A. Substitute materials will be considered for approval after Contract has been awarded.
B. Approval of substitutions is specifically excluded from this Division prior to signing of contract.
C. Requests for substitutions:
1. In writing.
2. Required data necessary for evaluation.
3. Difference in contract amount for each item.
4. In accordance with submittals procedure.
D. Requests for substitution imply no obligation on the Owner and his representatives.
E. If approved substitutions cause changes in the work required, including work by other trades, pay all costs involved and effect all necessary changes to accommodate substitutions at no additional cost to the Owner.
PART 3 - EXECUTION
3.01 INSPECTION:
A. Examine materials upon receipt for damages. Replace damaged materials.
B. Examine building structure to which materials are to be secured for defects adversely affecting the quality and execution of work. Do not start work until defects are corrected.
3.02 PREPARATION:
A. Field Measurements:
1. Refer conflicts to the Architect for review.
2. Resolve conflicts in accordance with the Architect's written direction at no additional costs to the Owner.
3. Specified manufacturer's instructions and recommendations.
B. Coordinate locations of materials with other trades by reference to Contract Documents and by conference with other trades. If work is later found to interfere with work of other trades, make necessary changes to eliminate interference at no additional cost to the Owner.
C. Preparation of Surfaces: Clean and otherwise modify surfaces to which materials are to be applied and secured in accordance with manufacturer's recommendations and Architect's direction.

and secured in accordance with manufacturer's recommendations and Architect's direction.
C. Verify proper type materials being installed for environmental conditions.
3.03 INSTALLATION:
A. Install materials in accordance with the requirements of the authorities having jurisdiction and the manufacturer's recommendations. All heights and quantities of equipment to be installed is to be detailed on the Architectural plans and as required by the ADA. Notify the Architect of all discrepancies in writing prior to rough-in.
B. Records for Owner:
1. Maintain full set of Contract Documents at Project. Note daily changes made in connection with final installation.
2. Provide a complete set of "as-built" reproducible drawings to the owner showing exact locations of all equipment, valves, piping, ducts, etc. These drawings shall reflect any changes from contract documents and shall be drafted by competent personnel to include the owner with quality completion of facilities at project completion.
BASIC MATERIALS AND METHODS
PART 1 - GENERAL
1.01 SCOPE:
A. Work included in this Section: The following Specification applies to all work of the Mechanical and Plumbing Contractors.
PART 2 - PRODUCTS
2.01 STANDARDS FOR MATERIALS:
A. All materials and equipment shall conform to the requirements of the Contract Documents. They shall be new, free from defects, and they shall conform to the following standards where these organizations have set standards. All materials and equipment shall be UL listed and labeled where possible.
1. Underwriters Laboratories, Inc. (UL).
2. National Electrical Manufacturer's Association (NEMA).
3. American National Standards Institute (ANSI).
B. Manufacturer's names and catalog numbers are used as a means of establishing product grade and quality. Where several manufacturers are named, only those named manufacturers' are to be used on this job. Other named manufacturers, although acceptable as manufacturers, must prove their product will conform satisfactorily and will meet space and capacity requirements, etc., of the first named manufacturer.
C. The use of one named manufacturer in the schedules on the Drawings is for guide purposes. The provisions of the above paragraph will govern in the selection of products to be used.
D. Where the "or approved equal" clause is used in these specifications, the name, or names, mentioned are to be used as a basis of quality. Other manufacturer's products will, however, be considered as substitutions and shall not be used as a basis for pricing.
E. Basis of quality shall be interpreted to include material, workmanship, weight, finish, gauges of material, appearance, capacity, performance, etc. Manufacturer's representation as to availability of equipment parts and replacement and service personnel in the area will be a factor in consideration of substitutions.
2.02 FLAME SPREAD PROPERTIES OF MATERIALS:
A. Materials and adhesives used throughout the mechanical system for filters, acoustical lining, thermal (pipe) insulation, flexible connections, duct tape, pneumatic tubing, etc., exposed in plenums, shall conform to the Federal Standard flame spread properties of materials. Under this requirement, the classification shall not exceed No. 11, with the range of index between 0 and 25 for the basic materials, their index of 50 in its classification No. 111 as listed in the Federal Specification.
B. Only materials and adhesives meeting these requirements will be acceptable.
PART 3 - EXECUTION
3.01 FIREPROOFING PENETRATIONS:
A. Provide fire sealing for penetrations through fire rated construction to maintain the fire rating of the walls, floors, partitions or roofs per local jurisdiction and Landlord's requirements.
3.02 ROUGHING-IN AND FINAL CONNECTIONS:
A. The Mechanical Sub-Contractor shall have the responsibility of rough-in for and assembly of various equipment and to make final connection to all equipment furnished by Owner and/or under Sections of these Specifications.
B. Roughing-in and assembling of this equipment shall be determined from the manufacturer's Shop Drawings or as directed and in no case shall the location be scaled from the Architectural or Mechanical Drawings.
C. The Contractor shall be aware that various equipment, valves, strainers, unions, etc., shown on the plans furnished by others shall be coordinated and assembled before installation under this contract.
3.03 CONSTRUCTION REQUIREMENTS:
A. Where equipment is being furnished under another Division, request from the Architect an accepted drawing that will show exact dimensions of required locations of connections. Install the required facilities to the exact requirements of the approved drawing.
B. Assume responsibility for all costs or changes required that may be incurred if this Specification is not followed.
3.04 CLEAN-UP:
A. During the execution of the work remove all rubbish and excess materials accumulated as a result of the work.
B. Remove all dirt, paint, grease and stains from all exposed equipment. Upon completion of work, clean all equipment and the entire installation so as to present a first class job suitable for occupancy. No loose parts or scraps of equipment shall be left on the premises.
C. Equipment paint scars shall be repaired with paint kits supplied by the equipment manufacturer.
D. TESTS, ADJUSTMENTS AND INSPECTIONS:
A. On completion of the installation, test and adjust all within the building.
B. Pay all costs for labor, materials, equipment, etc., as required for testing and adjusting of the systems. Provide all apparatus, temporary piping connection

or any other requirements for all tests. Take due precautions to prevent damage to the building or its contents incurred by such tests. Repair and make good any damage so caused at no additional cost to the Owner.
C. Any leaks, defects or deficiencies discovered as a result of these tests or tests performed by the Owner-retained testing and balancing firm shall be repaired and test shall be repeated until test requirements are fully completed.
D. Where practical, all piping tests shall be made before pipe is covered or concealed.
E. It is the intention of this section of the specifications to provide necessary tests during and at completion of the job to ensure tight piping and ductwork and an approved adjusted system. Note daily changes made to do everything necessary to accomplish this.
F. All motors, bearings, etc., on all equipment shall be correctly oiled and greased before the equipment is operated and again at the completion of the job. Provide complete oiling and greasing instructions for Owner's designated personnel. Grease fittings shall be installed on equipment that requires periodic greasing.
PLUMBING PIPING
PART 1 - GENERAL
1.01 SCOPE:
A. Furnish all labor, materials, tools, equipment and related items required for the complete installation of plumbing piping as indicated by the Contract Documents.
B. The Plumbing Contractor shall obtain all permits, inspections, and approvals as required by Authorities having jurisdiction. All fees and costs incidental thereto shall be assumed and paid for by this Contractor.
PART 2 - PRODUCTS
2.01 SANITARY SEWER WASTE AND VENT PIPING:
A. BURIED WITHIN 5 FEET OF BUILDING:
1. Cast Iron Pipe: ASTM A74 service weight. Fittings: Cast Iron, Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum.
2. PVC Pipe: Schedule 40 pvc piping with solvent welded pvc pipe fittings may be used if approved by local authorities.
3. Copper Tubing: ASTM B306, DWV. Fittings: ANSIA/ASME B16.3, cast bronze, or ANSIA/ASME B16.29, wrought copper. Joints: ANSIA/ASTM B32, solder, Grade 50B.
B. ABOVE GRADE/BELOW GRADE-NO-HUB:
1. Cast Iron Pipe: ASTM A74, service weight. Fittings: Cast Iron, Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum.
2. Cast Iron Pipe:
a. Heavyweight Couplings: No Hub couplings with 0.860 inch thick stainless steel flasks, ASTM C-1540, Clamp-PH II Torq 125, Husky Series 4000 (Husky 2000 medium duty), or experience.
b. Materials: Flame spread/low smoke developed rating of 25/50 in accordance with ASTM E84, NFPA 255, UL 723.
c. Under no circumstances will materials containing asbestos be allowed on this project site.
3. PVC Pipe: Schedule 40 pvc piping with solvent welded pvc pipe fittings may be used if approved by local authorities.
2.02 WATER PIPING:
A. BURIED:
1. Within 5 feet: Copper Tubing: ASTM B88, Type K soft or hard drawn. Fittings: ANSIA/ASME B16.29, wrought copper. Joints: ANSIA/ASTM B32, solder, Silverbrite #100, 95.5% Tin, 4% Copper, 0.5% Silver. AYS A5.8, B Cup silver braze. Wrap piping with 3M scotchguard pipe wrap.
2. Beyond 5 feet: Copper Tubing: ASTM B88, Type K hard drawn. Fittings: ANSIA/ASME B16.29, wrought copper. Joints: ANSIA/ASTM B32, solder, Silverbrite #100, 95.5% Tin, 4% Copper, 0.5% Silver. AYS A5.8, B Cup silver braze.
B. ABOVE GRADE:
1. Copper Tubing: ASTM B88, Type L, hard drawn. Fittings: ANSIA/ASME B16.23, cast brass, or ANSIA/ASME B16.29, wrought copper. Joints: ANSIA/ASTM B32, solder, Silverbrite #100, 95.5% Tin, 4% Copper, 0.5% Silver. AYS A5.8, B Cup silver braze.
2. For 1/2" and 3/4" lines use 1/2" thick pipe insulation. For 1" and larger lines use 1" thick pipe insulation.
C. ACCESSORIES:
A. Insulation Bands: 3/4 inch wide, 0.015 inch thick galvanized steel.
B. Metal Jacket Bands: 3/8 inch wide, 0.015 inch thick aluminum.
C. Insulating Cement: ANSIA/ASTM C195; hydraulic setting mineral wool.
D. Finishing Cement: ASTM C449.
E. Fibrous Glass Cloth: Untreated, 9 oz/sq. yd. (305 g/sq. m) weight.
F. Adhesives: Compatible with insulation and suitable for return air use if used in those spaces.
PART 3 - EXECUTION
3.01 PREPARATION:
A. Do not apply any insulation until piping has been inspected, pressure tested and found tight.
B. All surfaces to be insulated shall be cleaned and dried before applying insulation.
3.02 INSTALLATION:
A. Install materials in accordance with manufacturer's instruction.
B. Continue insulation with vapor barrier through penetrations.
C. In exposed piping, locate insulation and cover seams in least visible locations.
D. On insulated piping with vapor barrier, insulate fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
E. On insulated piping without vapor barrier and piping conveying fluids 140 degrees F (50 degrees C) or less, do not insulate flanges and unions at equipment, but bevel and seal ends of insulation at such locations.
F. Provide an insert, not less than 6 inches (150 mm) long, of same thickness and contour as adjoining insulation, between support shield and piping, but under the finish jacket, on piping 2 inches (50 mm) diameter or larger; to prevent insulation from sagging at support points. Inserts shall be cork or other heavy density insulating material suitable for the planned temperature range. Factory fabricated inserts may be used.
G. Neatly finish insulation at supports, protrusions, and interruptions.
3.03 DOMESTIC WATER PIPING INSULATION:
INSTALLATION:
A. Insulate all cold water, hot water supply, and hot water return piping, valves and fittings.
B. Fittings and valves shall be insulated with insulating cement applied to thickness equal to that of adjoining pipe insulation and shall be covered with glass cloth jacket. Fittings may be insulated with two layers of pre-cut Fiberglass blanket insulation jacketed with pre-formed PVC covers in lieu of insulating cement and cloth jacket.
3.04 A/C UNIT CONDENSATE DRAIN PIPING INSULATION INSTALLATION:
A. Insulate all condensate drain piping and fittings within the building.
B. Install insulation in strict accordance with manufacturer's instruction. Seal all joints and seams with manufacturer's recommended adhesive to provide continuous vapor seal.

vertical stacks using 45 degree "Y" branches, 60 degree "Y" branches or combination of "Y" and 1/8 bend fittings. Horizontal branches turning down on vertical stacks may use a short sweep or 1/2 bend. Branches connecting to mains or to other branches shall enter the branch line at a 45 degree angle, tilted 45 degrees upward, so that the entry is from the side and top.
H. Verify with the air conditioning installer that all vents through the roof are located at least ten feet from the outside air intake of the unit. There shall be at least ten feet of separation between these vents and any outside air intake, including the combustion air fresh air intake and extend the vent piping as required.
I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
J. Provide clearance for installation of insulation and access to valves and fittings.
K. Provide access where valves and fittings are not exposed.
L. Slope water piping and arrange to drain at low points.
M. Establish elevations of buried piping outside the building to ensure not less than 18 inches of cover.
N. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
O. Prepare pipe, fittings, supports, and accessories not prefabricated, ready for finish painting. Refer to other sections of this specification for painting.
P. Establish invert elevations, slopes for drainage to 1/8 inch per foot minimum. Maintain gradients.
Q. Extend all condensate drains to nearest approved receptor (unless shown otherwise) and slope properly to avoid secondary trapping.
R. Any PVC piping exposed to the sunlight shall be UV protected. This may be from additives in the plastic compounds making up the pipe or from coating or sheathing added to the pipe after installation. If paint is applied to the pipe, manufacturer's instructions on preparation of the surface prior to painting must be strictly followed.
3.03 APPLICATION:
A. Use grooved mechanical couplings and fasteners only in accessible locations.
B. Install unions downstream of valves and at equipment or apparatus connections.
C. Install brass male adapters each side of valves in copper piping system. Sweat solder adapters to pipe.
D. Install ball valves for shut-off and to isolate equipment, part of systems, or vertical risers. Kitchen equipment shall have ball valves used for equipment isolation.
E. Install gate valves for throttling, bypass, or manual flow control services.
3.04 DETECTION OF DOMESTIC WATER PIPING SYSTEM:
A. Prior to starting work, verify system is complete, flushed and clean.
B. Ensure PH of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid (hydrochloric).
C. Inject disinfectant, fresh chlorine in liquid, powder, tablet or gas form, throughout system to obtain 50 to 80 mg/L residual.
D. Bleed water from outlets to ensure distribution and test for disinfectant residual at minimum 15 percent of available.
E. Maintain disinfectant in system for 24 hours.
F. If final disinfectant residual tests less than 25 mg/L, repeat treatment.
G. Flush treatment from system until residual equal to that of incoming water or 1.0 mg/L.
H. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C601.
PLUMBING EQUIPMENT
PART 1 - GENERAL
1.01 SCOPE:
A. Furnish all labor, materials, tools, equipment and related items required for the complete installation of Plumbing Equipment as indicated by the Contract Documents.
1.02 REFERENCES:
A. ANSIA/ASSE 1011 - Hose Connection Vacuum Breakers.
B. ANSIA/ASSE 1019 - Wall Hydrants, Frost Proof Automatic Draining Anti-Backflow Types.
C. ANSI A112.2.1 - Floor Drains and Floor Sinks.
PART 2 - PRODUCTS
2.01 FLOOR DRAINS AND FLOOR SINKS:
A. FD - PVC schedule 40 body with double drainage flange, weep holes, clamping collar, and round, adjustable nickel-bronze strainer, model 842-3PWR manufactured by Sioux Chief.
B. All drains shall have drain trap seal instead of drain trap primers if approved by local authorities.
C. FS - PVC with double drainage flange, weep holes, clamping collar, enameled interior, aluminum internal dome strainer, sediment bucket with liner, and round nickel-bronze strainer with 1/2 gate, model 861-X1PN manufactured by Sioux Chief.
E. ACCEPTABLE MANUFACTURERS - FLOOR DRAINS AND FLOOR SINKS:
1. Josam
2. J.R. Smith
3. Zum
4. Wade
5. Sioux Chief
CLEANOUTS:
A. Exterior Areas: Cast iron body with round cast nickel bronze access frame and non-skid cover, Model 56010 manufactured by Josam.
B. Interior Finished Floor Areas: PVC schedule 40 body with round cast nickel bronze access frame and non-skid cover, Model 56010 manufactured by Josam.
C. Interior Unfinished Accessible Areas: Caulked or threaded type.
E. ACCEPTABLE MANUFACTURERS - CLEANOUTS: Josam, J.R. Smith, Zum, Wade, Sioux Chief.

WATER HAMMER ARRESTORS:
A. Water hammer arrestors shall comply with ASSE 1010 and ANSI A112.26.1. The Water Hammer Arrestor shall consist of a copper body with a brass hexagonal male pipe threaded inlet, an acetel or brass piston with Buna Nitrile o-rings and lead free solder. The device shall be pre-charged and sealed at the factory. The Water Hammer Arrestor shall be similar to WILKINS Model 1250. Refer to Plumbing Riser Diagram for locations.
2.04 WALL HYDRANTS AND HOSE BIBBS:
A. Wall Hydrant: ANSIA/ASSE 1019; non-freeze, self-venting type with chrome plated recessed box housing thread, removable key, and vacuum breaker; Model B65 manufactured by Woodford.
B. Hose Bibb: ANSIA/ASSE 1019; chrome plated brass hose bibb, hose threaded, with Tee handle and vacuum breaker. Woodford model 24P.
C. ACCEPTABLE MANUFACTURERS - WALL HYDRANTS: Woodford, Josam, J.R. Smith, Zum, Wade.
2.05 TRAP PRIMER VALVES:
A. Trap primer valves shall be Josam 88250 or approved equal with bronze valve body, removable operating parts, integral vacuum breaker, and recessed access cover.
2.06 BACKFLOW PREVENTERS:
All fixtures plumbed on this project shall have backflow preventers as required by the applicable code enforcement authorities. These may be individual (per fixture) backflow devices or they make a backflow device for the entire water service, but they must prevent cross-contamination in accordance with the local plumbing and health codes.
PART 3 - EXECUTION
3.01 PREPARATION:
A. Coordinate forming of roof and floor construction to receive drains to required invert elevations.
3.02 INSTALLATION AND APPLICATIONS:
A. Install specialties in accordance with manufacturer's instructions to permit intended performance.
B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Ensure clearance at cleanout for rodding of drainage system.
C. On all installations with spaces below the floor, all drains, cleanouts and floor sinks shall have floor pipe installations.
D. Encase exterior cleanouts in concrete flush with grade.
E. Cleanouts shall be provided where required to provide access to all lines and at each change in direction greater than 45° and in each horizontal run at intervals not exceeding 50 feet in all soil, waste, and drain lines.
F. Extend a 1/2" soft copper line to each drain from trap primer valve at the nearest laundry or sink.
PLUMBING FIXTURES
PART 1 - GENERAL
1.01 SCOPE:
A. Furnish all labor, materials, tools, equipment and related items required for the complete installation of Plumbing Fixtures as indicated by the Contract Documents.
1.02 REFERENCES:
A. Americans with Disabilities Act (ADA).
B. NSF 61 Section 9 Drinking Water Standard.
C. ANSIA 112.6.1 - Sinks for Off-the-Floor Plumbing Fixtures for Public Use.
D. ANSIA 112.18.1 - Furnished and Rough Brass Plumbing Fixture Fittings.
E. ANSIA 112.19.1 - Enameled Cast Iron Plumbing Fixtures.
F. ANSIA 112.19.2 - Vitreous China Plumbing Fixtures.
G. ANSIA 112.19.5 - Trim for Water-Closed Bowls, Tanks, and Urinals.
1.03 OPERATION AND MAINTENANCE DATA:
A. Submit operation and maintenance data.
B. Include fixture trim exploded view and replacement parts lists.
1.09 WARRANTY:
A. Provide five year manufacturer's warranty.
B. Warranty: Include coverage of electric water cooler compressor.
PART 2 - PRODUCTS
2.01 ACCEPTABLE MANUFACTURERS - FIXTURES:
A. American Standard, Kohler, Crane, Eljer, Just, Elkay, Flat, Stern-Williams, Moon and Watts.
PART 3 - EXECUTION
3.01 INSPECTION:
A. Review millwork shop drawings. Conform location and size of fixtures and openings before rough-in and installation.
B. Verify adjacent construction is ready to receive rough-in of this Section.
3.02 INSTALLATION:
A. Install each fixture with trap, easily removable for servicing and cleaning.
B. Provide chrome plated rigid or flexible supplies to fixtures with loose key stops, reducers, and escutcheons.
C. Install components level and plumb.
D. Install and secure fixtures in place with wall carriers and bolts.
E. Seal fixtures to wall and floor surfaces with sealant as specified in other sections of this specification, coat to match fixture.
F. Maintain fixtures to the heights as indicated on the architectural elevations. All clearances, access and reach distances as required by the Americans with Disabilities Act (ADA) shall be adhered to.
G. On all water closets used in accessibility required areas, rough in flush valves so that the operating lever is on the wide side of the stall or in the case of tank type fixtures provide either left or right trip flush valves for the operation of the water closet on the wide side of the stall.
3.03 ADJUSTING AND CLEANING:
A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.
B. At completion, clean plumbing fixtures and equipment.
C. Solidly attach water closets to floor with lag screws. Lead flashing is not intended to hold fixture in place.

FIXTURE ROUGH-IN SCHEDULE:
A. Rough-in fixture piping connection in accordance with following table of minimum sizes for particular fixtures.

	Hot Water	Cold Water	Waste	Vent
Lavatory	1/2"	1/2"	2"	1-1/2"
Mop Sink	3/4"	3/4"	3"	2"
Sink	1/2"	1/2"	2"	1-1/2"
WC	1/2"	1/2"	2"	1-1/2"
Wtr Closet	1/2"	1/2"	4"	2"
Urinal	---	3/4"	2"	2"

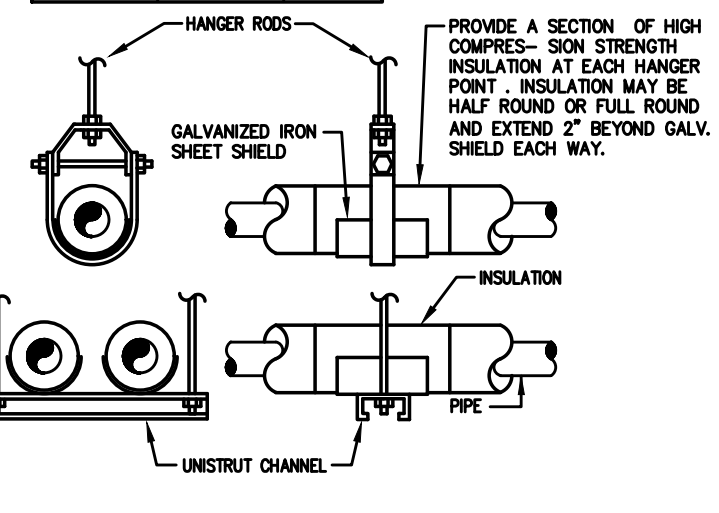
WATER HEATERS
PART 1 - GENERAL
1.01 QUALITY ASSURANCE:
A. Ensure products and installation of specified products are in conformance with recommendations and requirements of the following organizations.
1. National Sanitation Foundation (NSF).
2. American Society of Mechanical Engineers (ASME).
3. National Board of Boiler and Pressure Vessel Inspectors (NBBI).
4. National Electrical Manufacturers Association (NEMA).
5. Underwriters Laboratories (UL).
1.02 REGULATORY REQUIREMENTS:
A. All equipment must conform to all state and local requirements if those requirements are more stringent than these specifications.

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Architecture • Planning • Construction Management
DAVID R. LIPPE
REGISTERED ENGINEER
PROFESSIONAL ENGINEERING
F-17316 05/03/23
CONSTRUCTION DOCUMENTS
BUILDING TYPE / SIZE: LCV
RELEASE: 20.11
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 05/05/2023 PLAN REVIEW REV
CONSULTANT PROJECT # 22-MAY-012
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 2/28/2023
DRAWN BY RTM
PLUMBING SPECIFICATIONS
SHEET NUMBER
14901 Quorum Dr. #565
Dallas, Texas 75254
rtmcc.com | 972.387.3500
P0.00

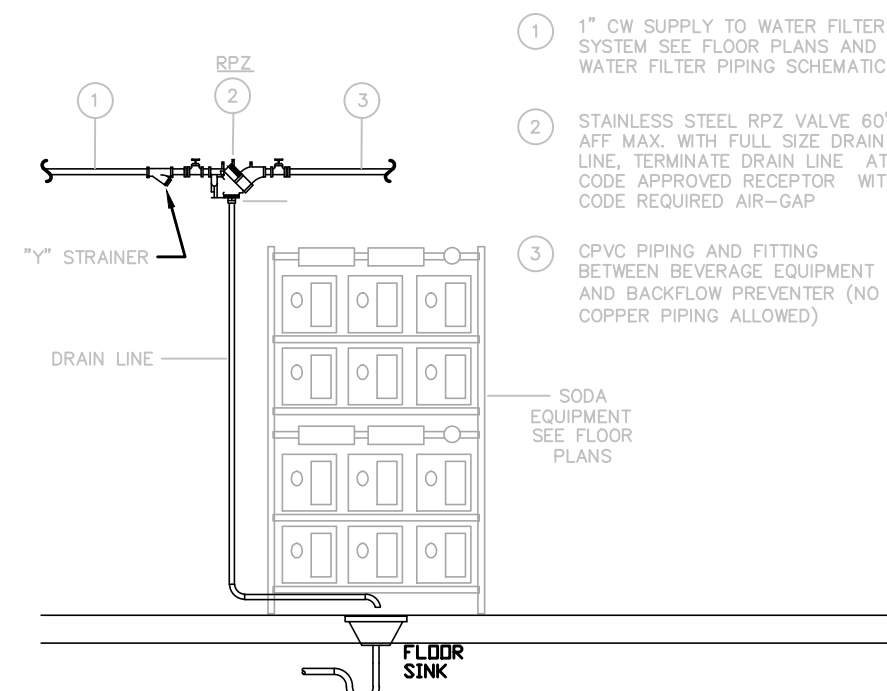
CONSTRUCTION DOCUMENTS
CHICK-FIL-A
J. OF NORTH TEXAS
STUDENT UNION
1155 UNION CIRCLE
DENTON, TX 76203
LCV#80307
BUILDING TYPE / SIZE: LCV
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MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS

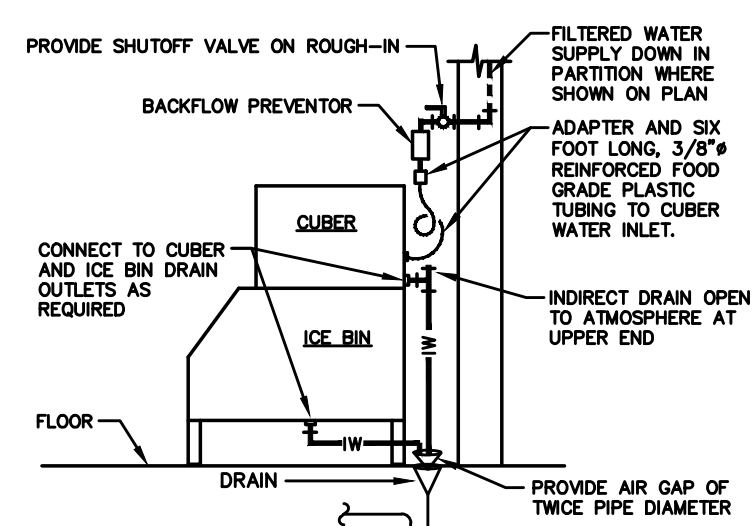
NOMINAL SIZE	MIN. LENGTH	MIN. THICKNESS
1/2"	12"	18
3/4"	12"	18
1"	12"	18
1 1/4"	12"	18
1 1/2"	12"	18
2"	12"	18



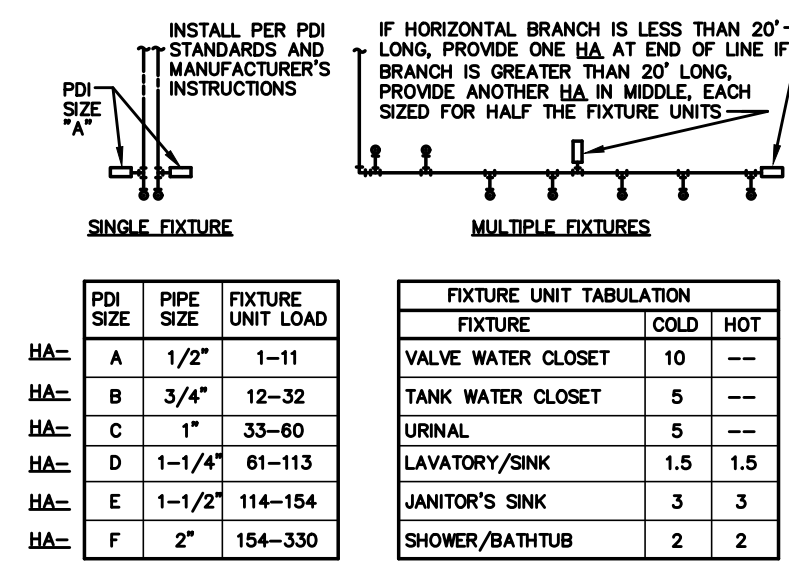
01 TYPICAL PIPE HANGER
Scale: NONE



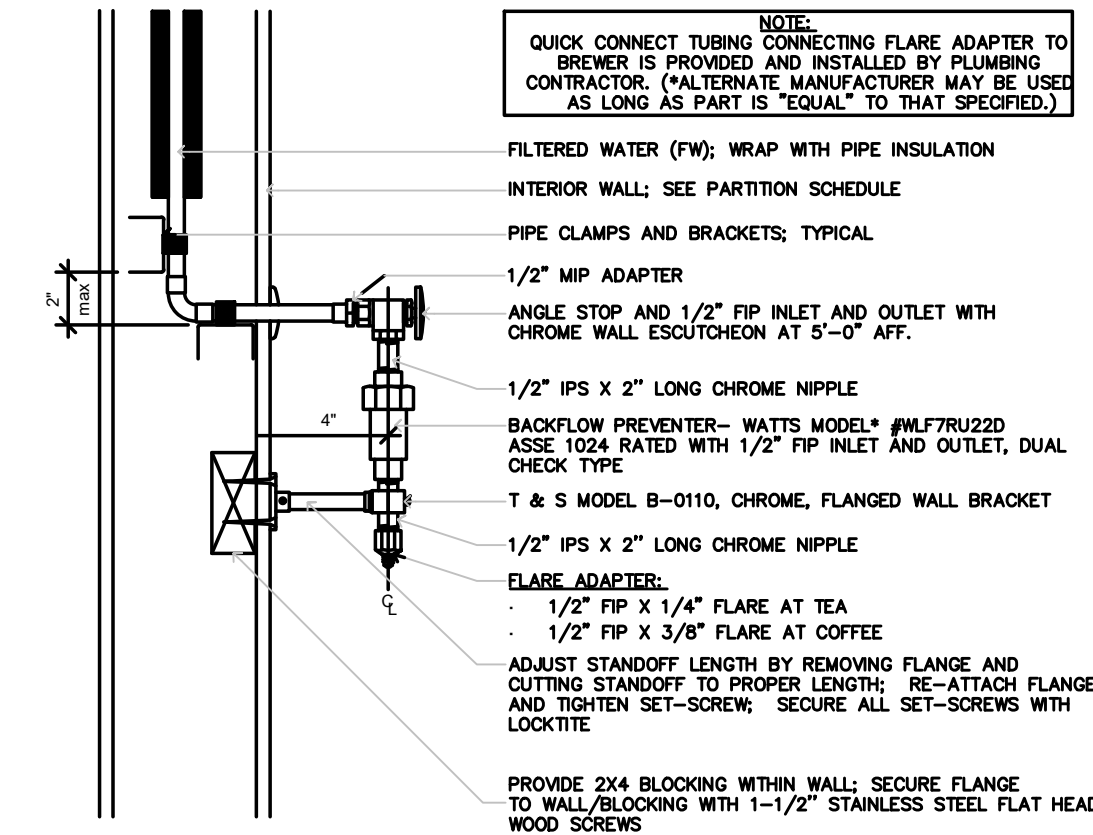
02 BEVERAGE SYSTEM B.F.P.
Scale: NONE



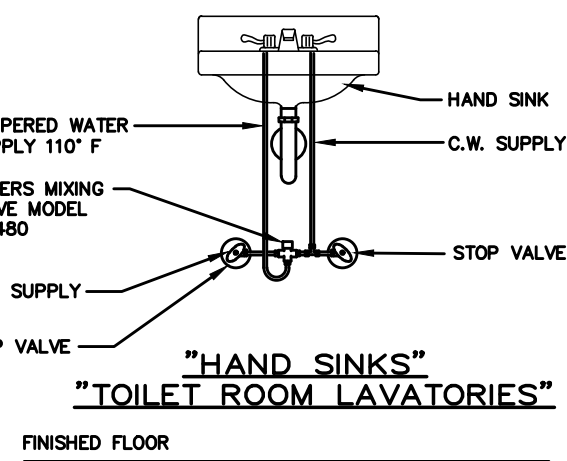
03 ICE MACHINE SUPPLY
Scale: NONE



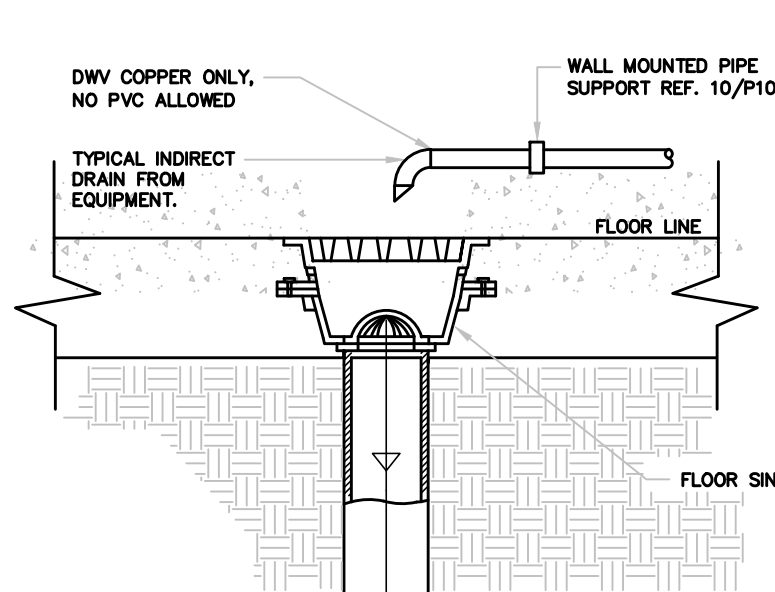
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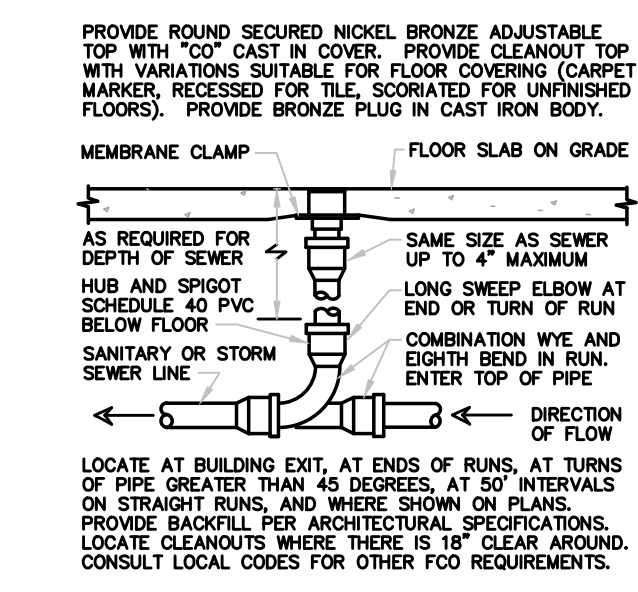
05 COFFEE/TEA BREWER AND BFP
Scale: NONE



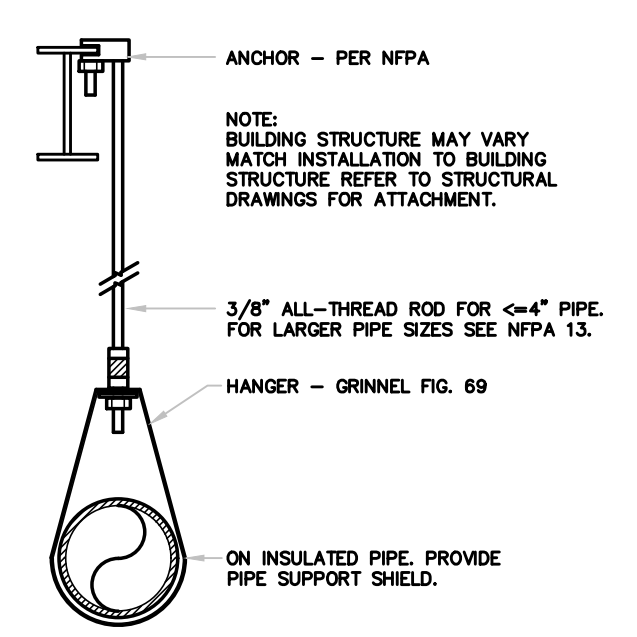
06 MV-1 MIXING VALVE
Scale: NONE



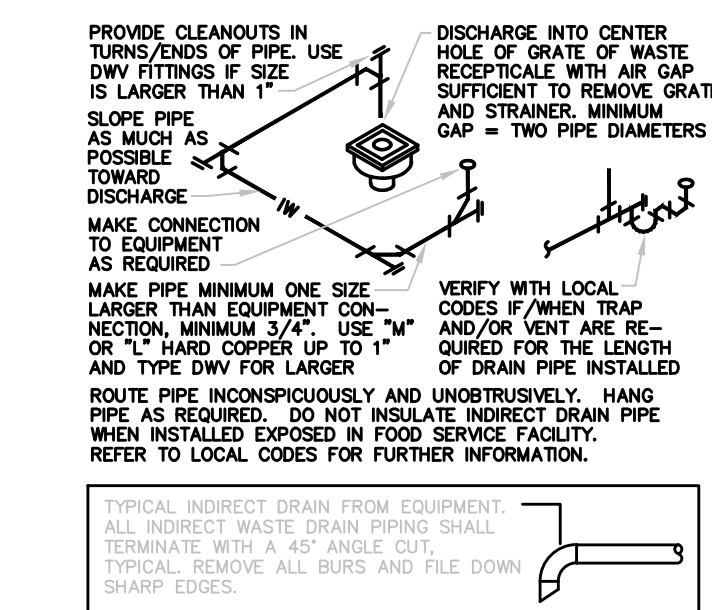
07 FLOOR SINK DETAIL
Scale: 10



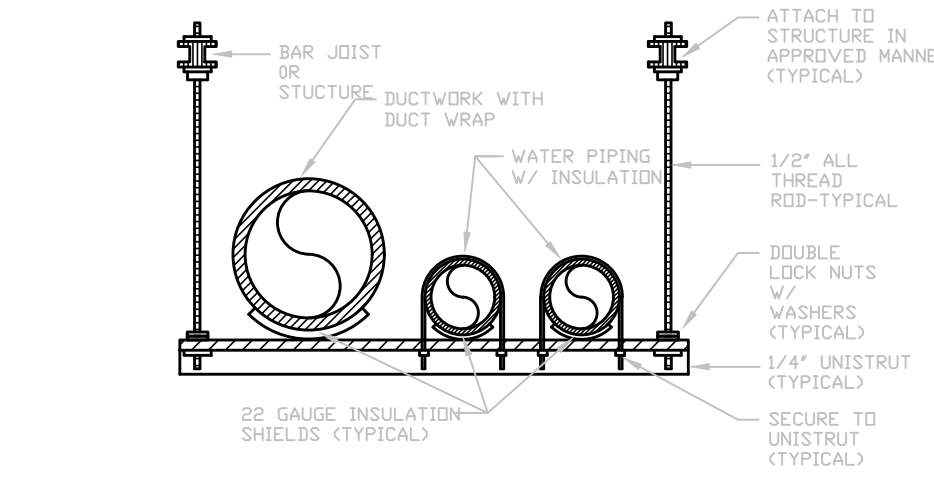
08 FLOOR CLEANOUT
Scale: NONE



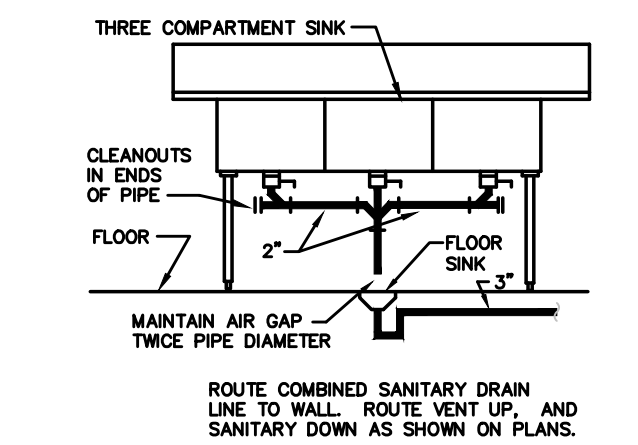
09 PIPE HANGER DTL.
Scale: NONE



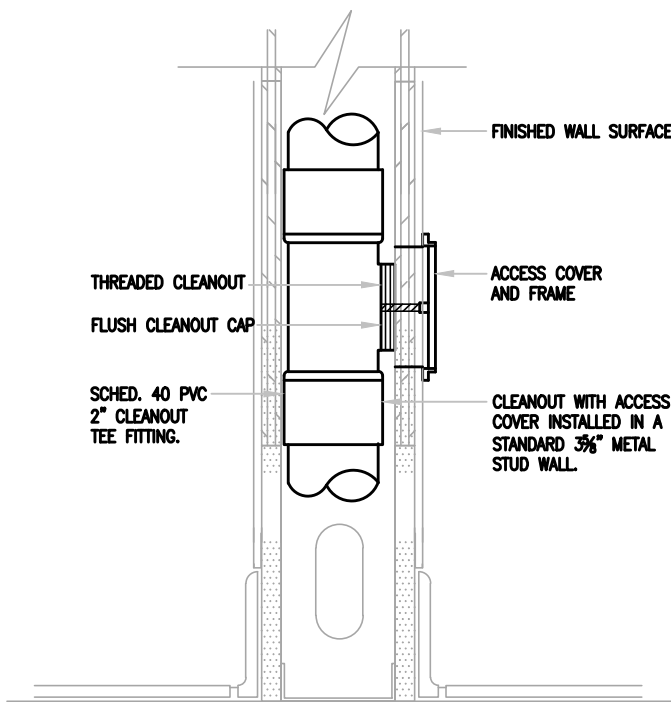
10 INDIRECT DRAIN
Scale: NONE



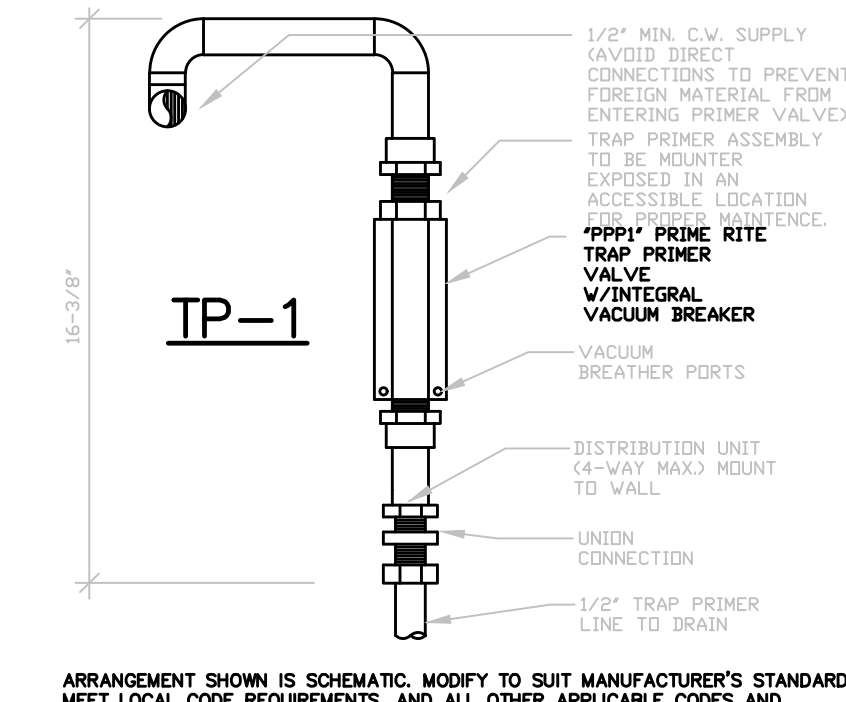
11 TYPICAL TRAPEZE HANGER
Scale: NONE



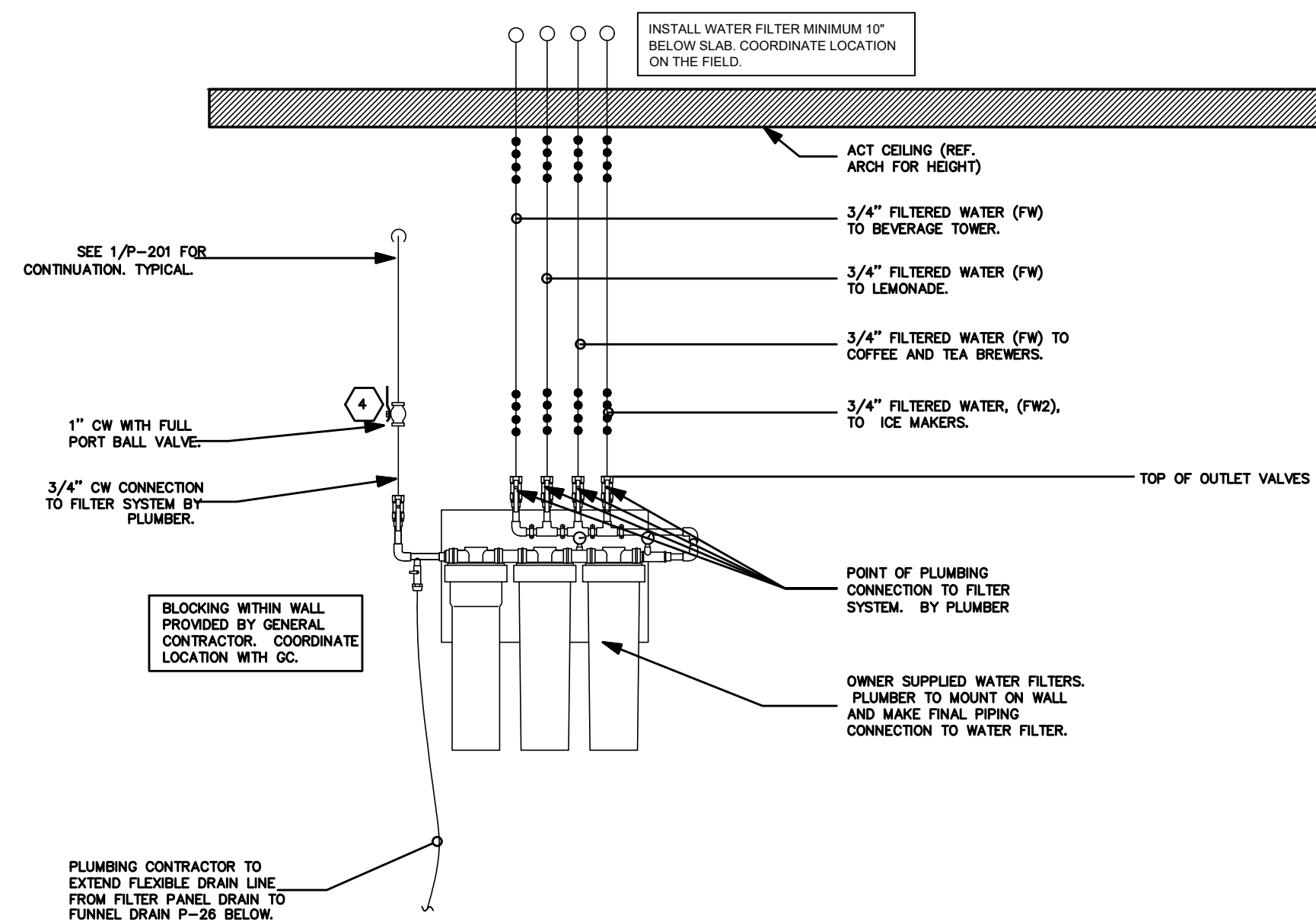
12 3-COMPARTMENT SINK DRAIN
Scale: NONE



14 WALL CLEANOUT
Scale: NONE



15 TRAP PRIMER DETAIL
Scale: NONE



13 PIPING AT WATER FILTER
Scale: NONE

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 DAVID R. LIPPE 53317 REGISTERED PROFESSIONAL ENGINEER
 F-17316 02/28/23

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CONSULTANT PROJECT # 22-MAY-012
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 SHEET PLUMBING DETAILS
 SHEET NUMBER

Artm
 engineering consultants
 14901 Quorum Dr. #565 Dallas, Texas 75254 rtmc.com | 972.387.3500

EQUIPMENT SCHEDULE (ITEMS SUPPLIED BY MILLWORK MANUFACTURER)

IF FCC IS PROVIDING ALL THE MILLWORK IN THE MILLWORK PACKAGE, PLEASE CONTACT MICHELLE GANSKO FCC ACCOUNT MANAGER (541) 464 - 5235 - WWW.FCC-CREATE.COM - IF NOT, CONTACT THE CONTRACTED MILLWORK PROVIDER.

Table with columns: ITEM NO., QUANTITY, DESCRIPTION OF EQUIPMENT, APPROVED MANUFACTURER, ELECTRICAL (VOLT, PH, KW, AMP, HP, NEMA-RATING), MECHANICAL (HW, CW, FW, FW2), PLUMBING (IW, DW, ROUGH-IN), ITEM NO., REMARKS.

EQUIPMENT SCHEDULE (ITEMS SUPPLIED BY THE GENERAL CONTRACTOR / FOOD SERVICE PROVIDER)

ALL EQUIPMENT IN THIS SCHEDULE IS TO BE PURCHASED BY THE GENERAL CONTRACTOR (GC) / FOOD SERVICE PROVIDER (FSP) - PROPOSED ALTERNATES TO BE APPROVED BY CFA ARCHITECT - ALL ELECTRICAL AND PLUMBING REQUIREMENTS ARE ESTIMATED - GC/FSP TO COORDINATE FINAL EQUIPMENT SELECTION WITH ARCHITECT

Table with columns: ITEM NO., QUANTITY, DESCRIPTION OF EQUIPMENT, APPROVED MANUFACTURER, ELECTRICAL, MECHANICAL, PLUMBING, ITEM NO., REMARKS.

KITCHEN EQUIPMENT PROPRIETARY SCHEDULE (ITEMS SUPPLIED BY TRIMARK STRATEGIC)

CONTACT CFA LICENSING TEAM AT (800) 304-0849 OPTION 3 OR CFALICENSING@TRIMARKUSA.COM AT TRIMARK STRATEGIC TO ORDER EQUIPMENT - SOME EQUIPMENT HAS A 10 - 12 WEEK LEAD TIME

Table with columns: ITEM NO., QUANTITY, DESCRIPTION OF EQUIPMENT, APPROVED MANUFACTURER, ELECTRICAL, MECHANICAL, PLUMBING, ITEM NO., REMARKS.

ABBREVIATION LEGEND

Table with columns: ABBREVIATION, DESCRIPTION. Lists various plumbing and electrical abbreviations like A.F.F., B.F.F., BFP, CA, CD, CO, CW, etc.

PLUMBING FIXTURE SCHEDULE

Table with columns: TAG, DESCRIPTION, MANUFACTURER / MODEL NO., PLUMBING CONNECTIONS (WASTE, VENT, CW, HW), SPECIFICATION/REMARKS.

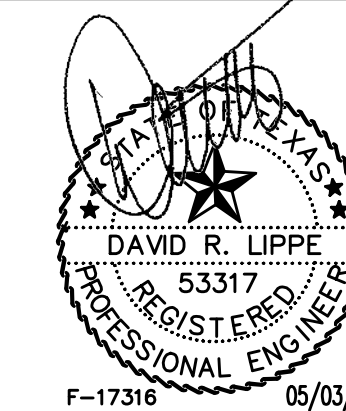
- 1. NO SUBSTITUTIONS WITHOUT THE WRITTEN APPROVAL OF OWNER.
2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR SOLID, SECURED INSTALLATION.
3. PROVIDE ALL DRAIN COVERS, ESCUTCHEONS, AND MISCELLANEOUS TRIM ITEMS FOR A NEAT APPEARANCE.
4. ALL MOUNTED HEIGHTS SHALL BE VERIFIED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL PLANS.
5. ALL SUPPLIES SHALL BE CHROME PLATED.
6. COVER ALL DRAINS AND WATER PIPING UNDERSINKS, LAVATORIES AND COUNTERS DESIGNATED FOR USE BY THE HANDICAPPED.
7. ALL DRAINS AND CLEANOUTS SHALL BE FURNISHED AND INSTALLED AS REQUIRED AND AS SHOWN. DRAIN SHALL HAVE CAST IRON BODIES WITH SCREWED OR CAULKED CONNECTIONS OF THE SIZE AND TYPES SHOWN AND SPECIFIED. PROVIDE DEEP SEAL CAST IRON "P" TRAPS ON ALL FLOOR DRAINS CONNECTED TO THE SANITARY SEWER.
8. USE WALL STANDOFFS TO SECURE DRAIN LINES UNDER EQUIPMENT. ALLOW 6" CLEARANCE FROM FLOOR CLEANING.
9. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED TO INDICATE TYPE, QUALITY, AND CONSTRUCTION. SIMILAR AND EQUAL PRODUCTS OF APPROVED MANUFACTURERS MAY BE SUBSTITUTED FOR THOSE SPECIFIED.



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E-17318 05/03/23

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DENTON, TX 76203

LCV#80307

BUILDING TYPE / SIZE: LCV
RELEASE: 20.11

REVISION SCHEDULE
NO. DATE DESCRIPTION
1 05/05/2023 PLAN REVIEW REV

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22-MAY-012
PRINTED FOR CONSTRUCTION DOCUMENTS
DATE 2/28/2023
DRAWN BY RTM

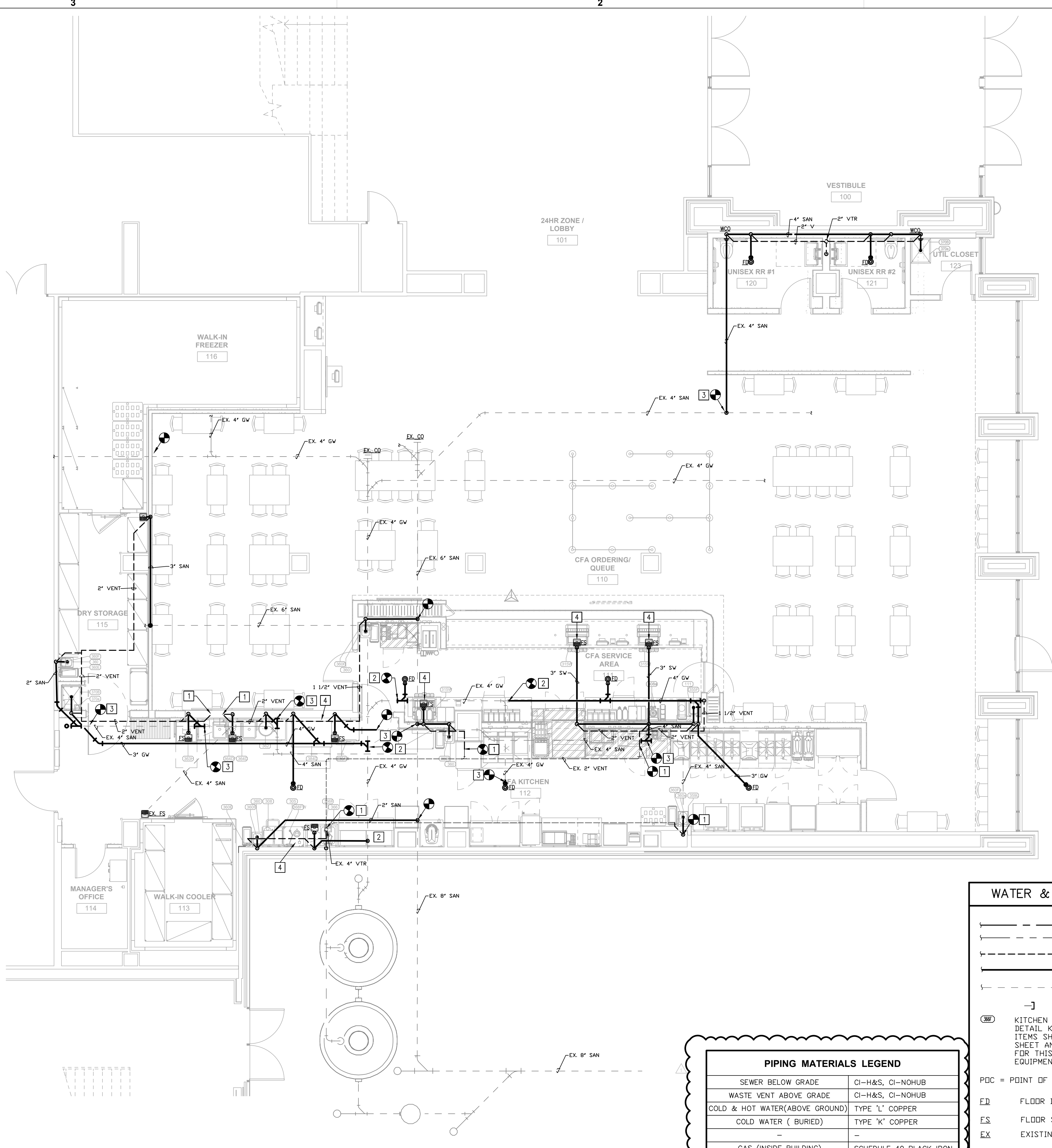
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PLUMBING SCHEDULES
SHEET NUMBER

14901 Quorum Dr. #565
Dallas, Texas 75254
rtmec.com | 972.387.3500

P0.02

BIM 360/INC_05197_Cape Fear Valley Med Center_2022.1_SAT/05197_Cape Fear Valley Med Center_ARC.rvt
 10/19/2022 10:59:42 AM
 05197-A-201-FLOOR PLAN



1 SEWER & WASTE PLUMBING PLAN
 3/16" = 1'-0"

PIPING MATERIALS LEGEND	
SEWER BELOW GRADE	CI-H&S, CI-NOHUB
WASTE VENT ABOVE GRADE	CI-H&S, CI-NOHUB
COLD & HOT WATER (ABOVE GROUND)	TYPE 'L' COPPER
COLD WATER (BURIED)	TYPE 'K' COPPER
GAS (INSIDE BUILDING)	SCHEDULE 40 BLACK IRON
CONDENSATE DRAIN	DWV COPPER
INDIRECT DRAIN (INSIDE BUILDING)	DWV COPPER

NOTE: REFER TO PROJECT SPECIFICATION MANUAL.

WATER & GAS PIPING LEGEND	
	CW LINE
	HW LINE
	VENT LINE
	WASTE LINE
	EXISTING TO REMAIN
	CAP
	KITCHEN EQUIPMENT IDENTIFICATION TAGS AND DETAIL KEYS. SEE FOOD SERVICE PLANS FOR ITEMS SHOWN WITH THESE MARKINGS IN THIS SHEET AND A COMPLETE LIST OF EQUIPMENT FOR THIS PROJECT, AND FOR INDIVIDUAL EQUIPMENT WATER SUPPLY CONNECTION SIZES.
	PDC = POINT OF CONNECTION
	FD = FLOOR DRAIN
	ES = FLOOR SINK
	EX = EXISTING
	ETR = EXISTING TO REMAIN
	TBR = TO BE REMOVED
	REL = RELOCATED

- ### GENERAL NOTES
- VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
 - CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS, FEES, CHARGES AND METERS.
 - TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MIN. FROM ANY FRESH AIR INTAKES.
 - INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
 - PROVIDE TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, VACUUM BREAKERS ON THREADED FAUCETS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.
 - RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
 - UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
 - TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH 1" (MIN.) AIR GAP. ALL INDIRECT WASTE PIPING MUST BE HARD PIPED, COPPER ONLY. NO P.V.C. ALLOWED.
 - PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.
 - VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.
 - PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.

- ### NOTES BY SYMBOL
- | | |
|---|--|
| 1 | CONNECT TO EXISTING VENT LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. |
| 2 | CONNECT TO EXISTING GW LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. |
| 3 | CONNECT TO EXISTING SW LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. |
| 4 | ROUTE DRAIN LINE FROM EQUIPMENT TO NEAR BY FLOOR SINK WITH CODE REQUIRED AIR GAP. |

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 Chick-fil-A
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 Atlanta, Georgia 30349-2998
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 www.MayseAssociates.com

DAVID R. LIPPE
 53317
 REGISTERED PROFESSIONAL ENGINEER
 E-17316 05/03/23

CHICK-FIL-A
 U. OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV

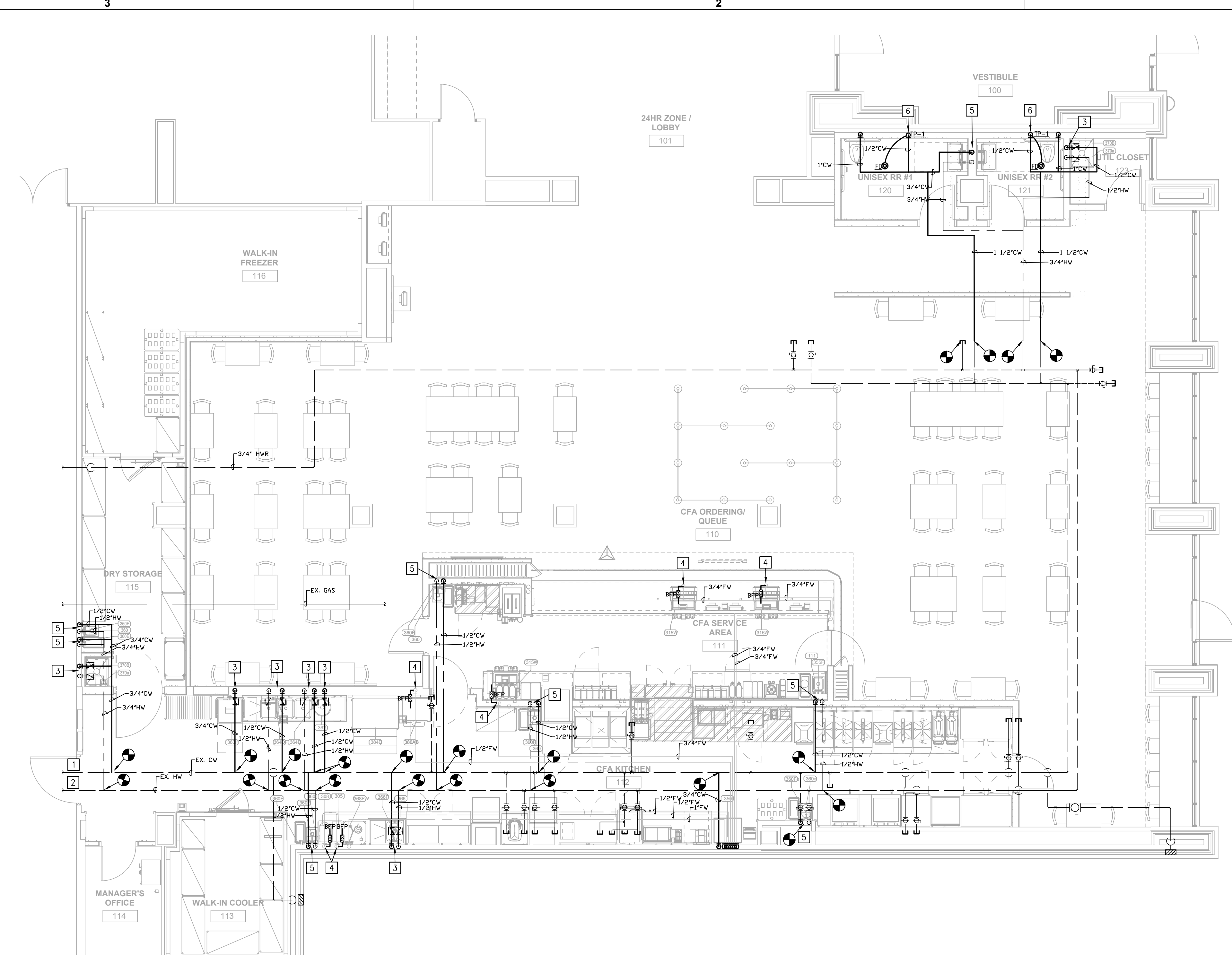
CONSTRUCTION DOCUMENTS	
CONSULTANT PROJECT #	22-MAY-012
PRINTED FOR	CONSTRUCTION DOCUMENTS
DATE	2/28/2023
DRAWN BY	RTM

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Artm
 engineering consultants
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 Dallas, Texas 75254
 rtmecc.com | 972.387.3500

SEWER AND WASTE PLUMBING PLAN
 SHEET NUMBER
P1.01

BIM 360/INC_05197_Cape Fear Valley Med Center_2022.1_SAT/05197_Cape Fear Valley Med Center_ARC.nt
 10/19/2022 10:59:42 AM
 05197-A-201-FLOOR PLAN



1 WATER & GAS PLUMBING PLAN
 3/16" = 1'-0"

PIPING MATERIALS LEGEND	
SEWER BELOW GRADE	CI-H&S, CI-NOHUB
WASTE VENT ABOVE GRADE	CI-H&S, CI-NOHUB
COLD & HOT WATER (ABOVE GROUND)	TYPE 'L' COPPER
COLD WATER (BURIED)	TYPE 'K' COPPER
-	-
GAS (INSIDE BUILDING)	SCHEDULE 40 BLACK IRON
CONDENSATE DRAIN	DWV COPPER
INDIRECT DRAIN (INSIDE BUILDING)	DWV COPPER

NOTE: REFER TO PROJECT SPECIFICATION MANUAL.

WATER & GAS PIPING LEGEND	
	CW LINE
	HW LINE
	VENT LINE
	WASTE LINE
	EXISTING TO REMAIN
	CAP
	KITCHEN EQUIPMENT IDENTIFICATION TAGS AND DETAIL KEYS. SEE FOOD SERVICE PLANS FOR ITEMS SHOWN WITH THESE MARKINGS ON THIS SHEET AND A COMPLETE LIST OF EQUIPMENT FOR THIS PROJECT, AND FOR INDIVIDUAL EQUIPMENT WATER SUPPLY CONNECTION SIZES.
POC	= POINT OF CONNECTION
FD	= FLOOR DRAIN
ES	= FLOOR SINK
EX	= EXISTING
ETR	= EXISTING TO REMAIN
TBR	= TO BE REMOVED
REL	= RELOCATED

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- VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
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 - TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH 1" (MIN.) AIR GAP. ALL INDIRECT WASTE PIPING MUST BE HARD PIPED, COPPER ONLY. NO P.V.C. ALLOWED.
 - PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.
 - VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.
 - PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.

- ### NOTES BY SYMBOL
- | | |
|---|--|
| 1 | CONNECT NEW CW PIPING TO EXISTING WATER SERVICE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. |
| 2 | CONNECT NEW HW PIPING TO EXISTING HW LOOP. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. |
| 3 | INSTALL CHECK VALVES ON SUPPLY LINES TO PLUMBING FIXTURES OR VERIFY EQUIPMENT INTERNAL GAP. |
| 4 | PROVIDE BACKFLOW PREVENTION. REFER TO SCHEDULE 'PLUMBING FIXTURES' FOR SPECIFICATION. IF APPLICABLE, ROUTE DRAIN TO NEARBY FLOOR RECEPTOR. |
| 5 | PROVIDE MIXING VALVE AT HAND SINK TO REDUCE HOT WATER TEMPERATURE TO 110°F. REFERENCE DETAIL #06. |
| 6 | PROVIDE TRAP PRIMER VALVE AT FLOOR DRAIN WITH WALL ACCESS PANEL ACCESS PANEL. |

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 53317
 REGISTERED PROFESSIONAL ENGINEER
 F-17316 05/03/23

CHICK-FIL-A
U. OF NORTH TEXAS
 STUDENT UNION
 1155 UNION CIRCLE
 DENTON, TX 76203

LCV#80307
 BUILDING TYPE / SIZE: LCV
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT #	22.MAY.012
PRINTED FOR	CONSTRUCTION DOCUMENTS
DATE	2/28/2023
DRAWN BY	RTM

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 SHEET



WATER AND GAS PLUMBING PLAN

SHEET NUMBER
P1.02



EQUIPMENT MANUAL

80307 UNIVERSITY OF NORTH TEXAS - LCV





SPECIFICATION SHEET

ITEM # 105b

ITEM DESCRIPTION: CONDIMENT BIN (5-1/2x10)

MANUFACTURER: INTERMETRO MODEL #SB91055CAS

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

8/16/2021

ITEM # 105b

Card Holders — 16.65

Includes snaps to fit all Metro totes. ESD Benstat also available.

Material	Holds Card Size		Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No.
	(in.)	(mm)			
Benstat	5x8	127x203	96	10	OP2501BAS
Benstat	3x5	76x129	96	10	OP2535BAS
Polypropylene	5x8	127x203	96	10	OP2501CLR
Polypropylene	3x5	76x129	96	10	OP2535CLR

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



Tote Boxes
(shown with Cardholder)

Stacking Bins — 16.65

Metro stacking bins are injection molded from polypropylene base resins in natural gray (NAT), static dissipative blue Benstat (BAS), or black conductive Bentron (CAS) compounds. All sizes have an open hopper front for easy access to contents and a slot on the back for use on bin holder bars.

Length (in.)	Width (mm)	Width (in.) (mm)		Height (in.) (mm)		Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No. Natural Polypropylene	Cat. No. Benstat	Cat. No. Bentron
		(in.)	(mm)	(in.)	(mm)					
7 ³ / ₈	187	4 ¹ / ₈	105	3	76	48	36	SB90743NAT	SB90743BAS	SB90743CAS
10 ⁷ / ₈	276	5 ¹ / ₂	140	5	127	24	25	SB91055NAT	SB91055BAS	SB91055CAS
14 ³ / ₄	375	8 ³ / ₄	210	7	179	12	18	SB91587NAT	SB91587BAS	SB91587CAS
14 ³ / ₄	375	16 ¹ / ₂	419	7	179	6	18	SB91516NAT	SB91516BAS	SB91516CAS
8	203	3 ¹ / ₂	89	4 ¹ / ₈	105	48	39	SB90835NAT	SB90835BAS	SB90835CAS

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



Stacking Bins

Dividers for Bins

Type	Fits	Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No. Natural Polypropylene	Cat. No. Benstat	Cat. No. Bentron
Long	SB91516	6	3	DL91516NAT	DL91516BAS	DL91516CAS
Long	SB90835	48	24	DI90835NAT	DI90835BAS	DI90835CAS

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



SPECIFICATION SHEET

ITEM # 105c

ITEM DESCRIPTION: CONDIMENT BIN (8-1/4x15)

MANUFACTURER: INTERMETRO MODEL #SB91587CAS

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

8/16/2021

ITEM # 105c

Card Holders — 16.65

Includes snaps to fit all Metro totes. ESD Benstat also available.

Material	Holds Card Size		Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No.
	(in.)	(mm)			
Benstat	5x8	127x203	96	10	OP2501BAS
Benstat	3x5	76x129	96	10	OP2535BAS
Polypropylene	5x8	127x203	96	10	OP2501CLR
Polypropylene	3x5	76x129	96	10	OP2535CLR

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



Tote Boxes
(shown with Cardholder)

Stacking Bins — 16.65

Metro stacking bins are injection molded from polypropylene base resins in natural gray (NAT), static dissipative blue Benstat (BAS), or black conductive Bentron (CAS) compounds. All sizes have an open hopper front for easy access to contents and a slot on the back for use on bin holder bars.

Length (in.)	(mm)	Width		Height		Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No.	Cat. No.	Cat. No.
		(in.)	(mm)	(in.)	(mm)			Natural Polypropylene	Benstat	Bentron
7 ³ / ₈	187	4 ¹ / ₈	105	3	76	48	36	SB90743NAT	SB90743BAS	SB90743CAS
10 ⁷ / ₈	276	5 ¹ / ₂	140	5	127	24	25	SB91055NAT	SB91055BAS	SB91055CAS
14 ³ / ₄	375	8 ³ / ₄	210	7	179	12	18	SB91587NAT	SB91587BAS	SB91587CAS
14 ³ / ₄	375	16 ¹ / ₂	419	7	179	6	18	SB91516NAT	SB91516BAS	SB91516CAS
8	203	3 ¹ / ₂	89	4 ¹ / ₈	105	48	39	SB90835NAT	SB90835BAS	SB90835CAS

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



Stacking Bins

Dividers for Bins

Type	Fits	Carton Qty.*	Est. Carton Wt. (lbs.)	Cat. No. Natural Polypropylene	Cat. No. Benstat	Cat. No. Bentron
Long	SB91516	6	3	DL91516NAT	DL91516BAS	DL91516CAS
Long	SB90835	48	24	DI90835NAT	DI90835BAS	DI90835CAS

*Items must be purchased in carton quantities to avoid a broken lot charge.
Pricing based on quantity ordered. Please consult your Metro representative.



SPECIFICATION SHEET

ITEM # 117A

ITEM DESCRIPTION: S/S CUSTOM FABRICATED TEA SHELF

MANUFACTURER: ALL SOUTHERN FABRICATORS MODEL #7220

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

USE (2) 18-8 SS MCMaster-CARR 92351A552 HEX HEAD LAG SCREWS PER 3/16" PRE-DRILLED HOLE STUD ONLY - MIN 2" APART

ISSUE DATE: 10/23/2017

ITEM # 117A



SPECIFICATION SHEET

ITEM # 121

ITEM DESCRIPTION: WALL MOUNTED SOUP PACKAGING HOLDER

MANUFACTURER: FRANKE MODEL #27802615

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

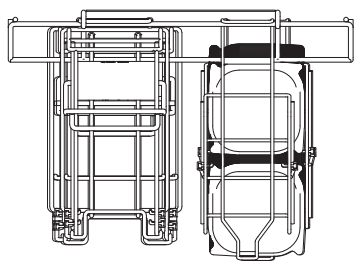
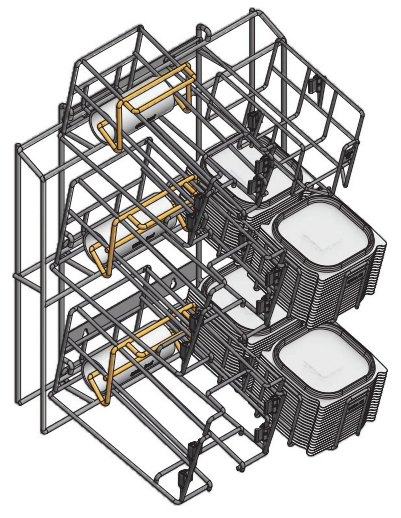
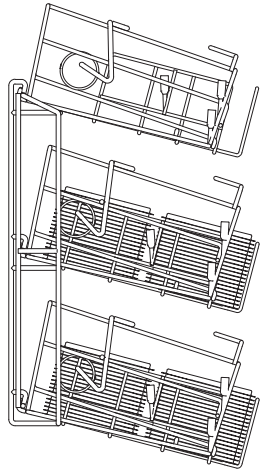
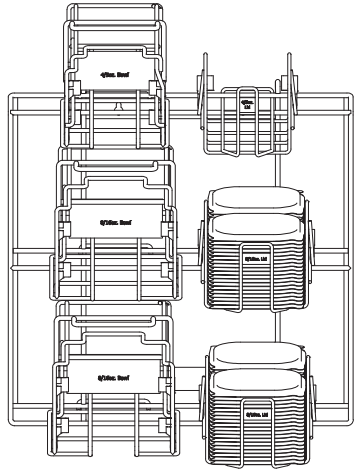
LOCATED ABOVE ITEM #431 - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION

ISSUE DATE:
10/23/2017

ITEM # 121

6 | 5 | 4 | 3 | 2 | 1

REVISION HISTORY				
REV	DESCRIPTION	MODIFIED	DATE	ECO
A		FAICC038	2/19/2016	



5	1	27802126	4/5oz. Small Lid and Lid Holder		
4	2	27802125	8/16oz. Lid, Soup Lid and Lid Holder		
3	1	27802127	4/5oz. Bowl Dispenser, Small Soup Bowl		
2	2	27802128	8/16oz. Bowl Dispenser Large and Medium Soup Bowl		
1	1	20.110004680	Frame, Wall Soup Dispensers		
ITE	QTY	PART NUMBER	TITLE	MATERIAL	Debu

Parts List

Holder, Wall Mount Packaging

		TOLERANCES	SUB-TITLE	REGION America	REV A	ITEM NUMBER 27802615
		X AND X.X 1 mm ANGLES ±1 DEG OR AS NOTED				
Franke Foodservice Systems <small>These drawings and specifications are the property of Franke Technology and Trademark A Ltd. and shall not be reproduced, copied or transmitted in any form or by any means without the prior written permission of Franke Technology and Trademark A Ltd. (Ingegn. Carimate)</small>	SCALE AS NOTED	UNIT mm	FORMAT A3	THICKNESS 0		

SHEET 1 OF 1

6 | 5 | 4 | 3 | 2 | 1



SPECIFICATION SHEET

ITEM # 122A

ITEM DESCRIPTION: PACKAGING STORAGE SYSTEM (PRIMARY)

MANUFACTURER: FRANKE MODEL #27801283

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

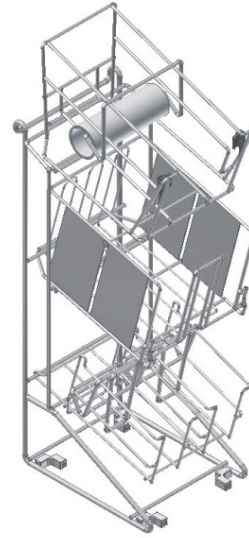
ISSUE DATE:
11/16/2018

ITEM # 122A

Packaging Storage System

Item# 27801283

Chargrilled Chicken



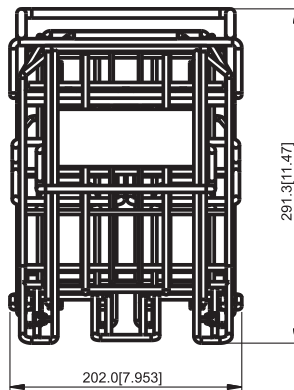
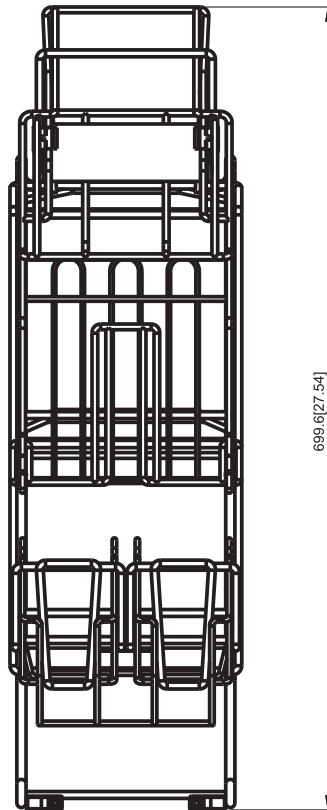
- Holds/Organizes preformed food packaging
- Prevents clutter in packaging area

DIMENSIONS	PRODUCT		*SHIPPING	
	IN	MM	IN	MM
Length	11.5	291	11.4	290
Width	7.95	202	8.27	210
Height	27.5	699	22.8	580

Weight	LBS	KG	LBS	KG
	9.55	4.3	11.1	5.0

*Shipping dimensions based on UOM = 1EA/Carton

Item#	DESCRIPTION
27801282	Three Tier Packaging Stand
27800934	Clamshell Packaging Holder
27800095	Package Storage System, Standard Unit
27801244	Dual Sandwich Wrap Holder



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 Tel: 1-800-423-5247
 Fax: 1-877-538-6882
 website: www.frankeparts.com

Franke Foodservice Systems GmbH
 Jurastrasse 3
 79713 Bad Saeckingen
 Germany
 Tel: +49 7761 5533 5700
 Fax: +49 7767 5533 8700
 website: www.frankefs.eu

Franke (China) Kitchen System Co., Ltd
 318 Yinglang Industrial Zone
 Shaping Town, Heshan City, Guangdong 529700
 P.R. China
 Tel: 86-750-841 5328
 Fax: 86-750-841 5845
 website: asia.frankefs.com



SPECIFICATION SHEET

ITEM # 122B

ITEM DESCRIPTION: PACKAGING STORAGE SYSTEM (SECONDARY)

MANUFACTURER: FRANKE MODEL #27807100

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

2/5/2020

ITEM # 122B



SPECIFICATION SHEET

ITEM # 200

ITEM DESCRIPTION: SLIM LINE CUSTOM TEA DISPENSER (SWEET)

MANUFACTURER: WILBUR CURTIS #TCN040-SW

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
11/19/2018

ITEM # 200



NARROW ICED TEA/COFFEE DISPENSERS

MODEL:TCN



Curtis Narrow Beverage Dispensers — Small footprint, large profits.

Offer your customers the best in style and versatility with the TCN narrow beverage dispenser from Curtis. The dispenser features a slim, modern design that works as good as it looks to promote iced/tea coffee sales. Placing two narrow dispensers side by side gives the same footprint as one standard TCO. Unlike some other dispensers, the TCN requires no plastic liner, which can stain and crack over time.

Best of all, the stainless steel vessel is easy to clean and delivers years of dependable service. For iced tea and coffee equipment that lasts, nobody measure up to Curtis.

ITEM NO

PROJECT

DATE

FEATURES AT A GLANCE

- **All Domestic Stainless-Steel Construction** – Unit never cracks or discolors.
- **Welded-on Stainless Steel Handle in Front and Hand Grip in Back** – NO screws or plastic.
- **Narrow Design** – An ideal dispenser when counter space is limited.
- **Tall Faucet Height** – Generous 8" cup clearance.
- **Great Custom Branding Options** – Colorful merchandising label attracts customers or create custom full wraps for the TCN.
- **Maintained Product Volume** – Despite the condensed dimensions, volume is not compromised.
- **Fits Curtis Brewer Models TCTS and TCTT.**

WC-38472 Iced Coffee Graphic



WC-37337 Base Double TCN

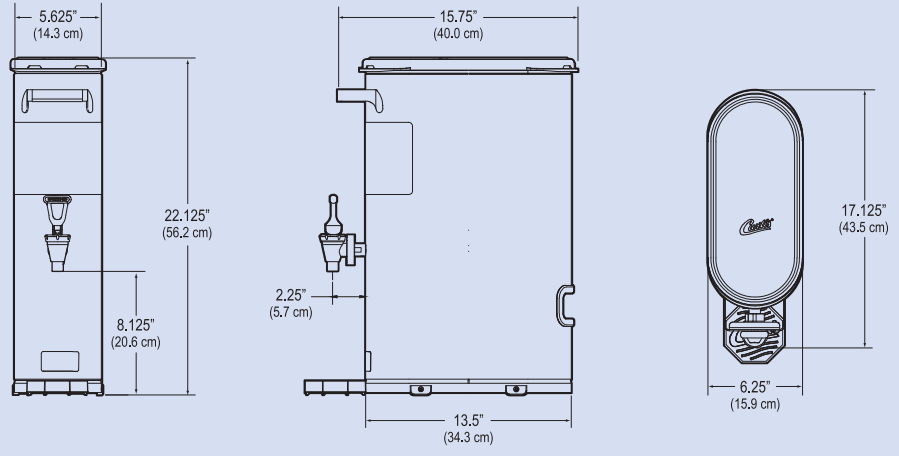
WC-39336 Base Double TCN also available



WC-5686 Drip Tray



TCN



Specifications	Capacity	Faucet Clearance	Dimensions (H x W x D)	Ship Weight
TCN	3.5 Gallons	8.125"	22.125" x 5.625" x 15.75"	11



WILBUR CURTIS COMPANY, INC.
 6913 Acco Street, Montebello, CA 90640-5403
 Telephone: 800-421-6150 · 323-837-2300
 Fax: 323-837-2406
 www.wilburcurtis.com





SPECIFICATION SHEET

ITEM # 200A

ITEM DESCRIPTION: SLIM LINE CUSTOM TEA DISPENSER

MANUFACTURER: WILBUR CURTIS MODEL #TCN14040

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

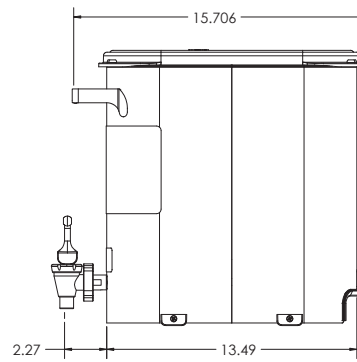
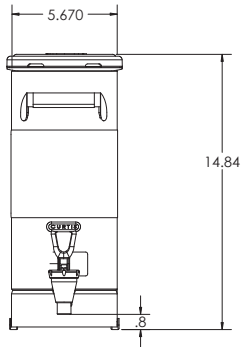
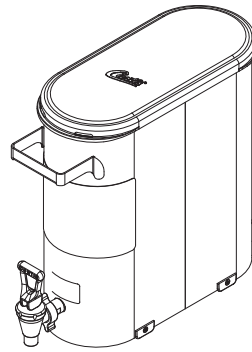
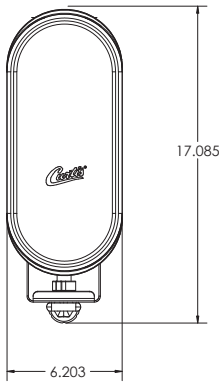
REMARKS:

LOCATED ON ITEM #117A - ORDER (2) #TCN14040-SW & (1) #TCN14040-US

ISSUE DATE:

10/23/2017

ITEM # 200A



REVIEWED	<p>Proprietary rights are included in the drawings. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Wabac Curls, Inc.</p>		<p>Wabac Curls Company, Inc. Phone: 925-837-2500 10000 Wabac Blvd. Moraga, CA 94556 www.wabaccurls.com</p>	
APPROVED	<p>MATERIAL: _____ CHANGE: _____ REVISION: _____</p>		<p>TEA CONTAINER NARROW 3.5 GALLON CAPACITY</p>	
	SIZE: C	DRG. NO: TCN14040	REV: A	SHEET 5 OF 7
	SCALE: 1:1			



SPECIFICATION SHEET

ITEM # 200U

ITEM DESCRIPTION: SLIM LINE CUSTOM TEA DISPENSER (UNSWEET)

MANUFACTURER: WILBUR CURTIS #TCN040-US

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
11/19/2018

ITEM # 200U



NARROW ICED TEA/COFFEE DISPENSERS

MODEL:TCN



Curtis Narrow Beverage Dispensers— Small footprint, large profits.

Offer your customers the best in style and versatility with the TCN narrow beverage dispenser from Curtis. The dispenser features a slim, modern design that works as good as it looks to promote iced/tea coffee sales. Placing two narrow dispensers side by side gives the same footprint as one standard TCO. Unlike some other dispensers, the TCN requires no plastic liner, which can stain and crack over time.

Best of all, the stainless steel vessel is easy to clean and delivers years of dependable service. For iced tea and coffee equipment that lasts, nobody measure up to Curtis.

ITEM NO

PROJECT

DATE

FEATURES AT A GLANCE

- **All Domestic Stainless-Steel Construction** – Unit never cracks or discolors.
- **Welded-on Stainless Steel Handle in Front and Hand Grip in Back** – NO screws or plastic.
- **Narrow Design** – An ideal dispenser when counter space is limited.
- **Tall Faucet Height** – Generous 8" cup clearance.
- **Great Custom Branding Options** – Colorful merchandising label attracts customers or create custom full wraps for the TCN.
- **Maintained Product Volume** – Despite the condensed dimensions, volume is not compromised.
- **Fits Curtis Brewer Models TCTS and TCTT.**

WC-38472 Iced Coffee Graphic



WC-37337 Base Double TCN

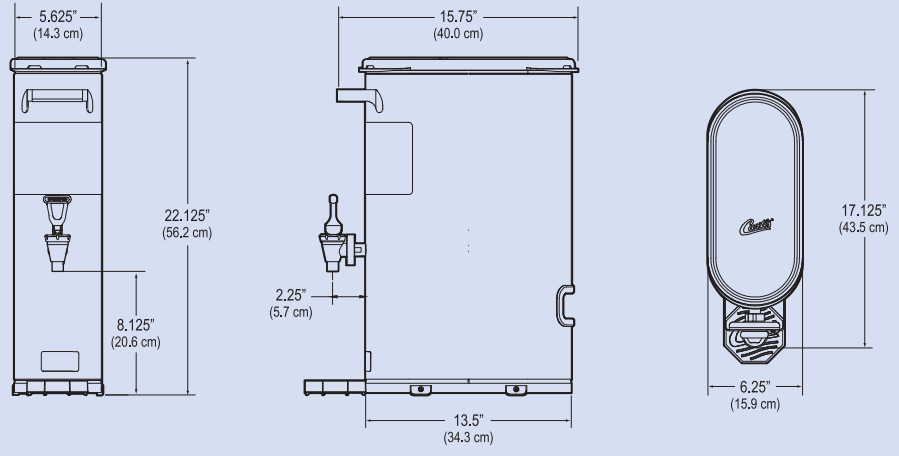
WC-39336 Base Double TCN also available



WC-5686 Drip Tray



TCN



Specifications	Capacity	Faucet Clearance	Dimensions (H x W x D)	Ship Weight
TCN	3.5 Gallons	8.125"	22.125" x 5.625" x 15.75"	11



WILBUR CURTIS COMPANY, INC.
 6913 Acco Street, Montebello, CA 90640-5403
 Telephone: 800-421-6150 · 323-837-2300
 Fax: 323-837-2406
 www.wilburcurtis.com



COBRA®

Translucent 45W Insect Light Trap



Provides fast insect elimination by means of its unique translucent technology.

Benefits

- ▶ Fast and effective 24-hour fly control for food handling areas
- ▶ Attracts insects with 3-15 watt UVA bulbs
- ▶ Translucent cover increases UV emission and greatly improves catch
- ▶ Captures insects on removable adhesive trapping boards, keeping them out of sight and intact
- ▶ Low voltage allows strategic placements
- ▶ Easy maintenance of replacement bulbs and adhesive boards
- ▶ Meets all FDA and USDA requirements for use in and around food handling facilities when used as directed
- ▶ Operates silently—no zap or sizzle
- ▶ 201 sq. inches (1300cm) of catch area

Designed For

- ▶ Lodging
 - ▶ Food Service
-



Use Overview

COBRA® Translucent 45W Insect Light Trap provides fast insect elimination by means of its unique translucent technology. Fast and effective 24-hour fly control for food handling areas. Translucent cover increases UV emission and greatly improves catch. Captures insects on removable adhesive trapping boards, keeping them out of sight and intact. Operates silently—no zap or sizzle. Low voltage allows strategic placements. Easy maintenance of replacement bulbs and adhesive boards. Meets all FDA and USDA requirements for use in and around food handling facilities when used as directed.



Product Specifications

Description	Translucent 45W Light Trap	Electrosect Replacement Tubes (Standard)	Electrosect Replacement Tubes (Sleeved)	Universal Adhesive Boards
Dimensions	22.6" x 16.8" x 7.6" (56.5 cm x 42.0 cm x 19.0 cm)	19.7" x 3.3" x 2.2" (49.3 cm x 8.2 cm x 5.4 cm)	19.7" x 3.3" x 2.2" (49.3 cm x 8.2 cm x 5.4 cm)	17.1" x 11.5" x 0.8" (42.8 cm x 28.8 cm x 1.9 cm)
Weight	12.1 lbs. (5.5 kg)	0.6 lbs. (0.25 kg)	0.6 lbs. (0.25 kg)	2.4 lbs. (1.11 kg)

Available Items

Product Code	Description/Package Size
4193567	1 x Translucent 45W Light Trap
4193575	2 x Electrosect Replacement Tubes – Standard
4193591	2 x Electrosect Replacement Tubes – Sleeved
4193583	15 x Universal Adhesive Boards

Safety Reminder

Please make sure your employees read and understand the product label and Material Safety Data Sheet before using this product. The label contains directions for use, and both the label and MSDS contain hazard warnings, precautionary statements and first aid procedures. MSDS are available on-line at www.diverse.com or by calling 888 352 2249.

Cobra® is a registered trademark used under authority of Brandenburg.

For additional information, please contact us at +1 800 558 2332 or at www.diverse.com
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SPECIFICATION SHEET

ITEM # 300a

ITEM DESCRIPTION: MILKSHAKE BASE DISPENSER

MANUFACTURER: KAN-PAK MODEL #CDG211

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 120
PH: 1
KW:
AMP: 4
HP:
NEMA RATING: 5-20P

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

MOUNTED ON ITEM #300b

ISSUE DATE:

11/15/2017

ITEM # 300a

Kan-Pak CDG 211 Series Liquid Dispenser

CDG Series liquid dispensers are cost-effective refrigerated liquid dispenser systems capable of dispensing up to two different bag-in-box products.

Features:

- Simple product dispensing for various liquid products including milk, cream, cold coffee, juices and many more!
- Manual, lever operated dispensing system ensures maximum 'up-time' with no microprocessor issues
- Holds two 9.5 Litre/2.5 Gallon bag-in-box products for refrigerated dispensing
- Best value on the market delivering the fastest return on investment and maximum profitability
- Simple to install and easy to use - remove from carton and power the unit up ...that's all there is to it!

Specifications:

- Dispenses two products. Manual, lever operated
- Capacity: 2 x 9.5 Litres/2 x 2.5 Gals
- Weight: 77 lbs
- Dimensions: 22" x 12" x 25 1/2" (L x W x H)
- A/C Supply Voltage: 120VAC/60Hz/1P/4Amp
- Refrigeration: Compressor cold wall evaporation; accurate to 32° F / 0° C
- Environmentally friendly 134A refrigerant. CFC-free
- Stainless steel construction with polyurethane insulation
- Shipping Dimensions: 27" x 17" x 30" (L x W x H)
Shipping Weight: 84 lbs.
- CDG 211 is certified to NSF/ANSI Standard 20 and certified to UL 471 and CSA C22.2 No. 120



For more information, please contact us
via phone or email at 1-800-378-1265
or sales@kan-pak.com
Please visit us on the web at www.kan-pak.com

KanPak®

Kan-Pak LLC, 1016 South Summit, Arkansas City, Kansas, 67005



SPECIFICATION SHEET

ITEM # 300c

ITEM DESCRIPTION: SINGLE-SPINDLE MIXER

MANUFACTURER: HAMILTON BEACH MODEL #HMD300M-CFA

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

MOUNTED ON ITEM #300X - FRONT MOUNT

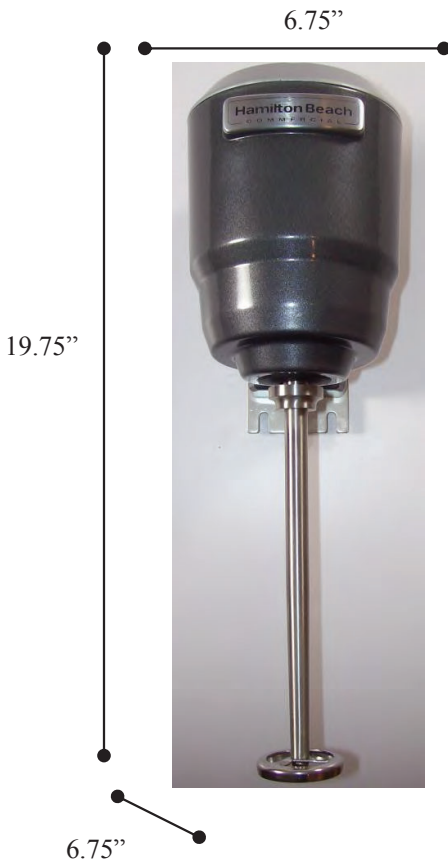
ISSUE DATE:

2/2/2016

ITEM # 300c



HMD300M-CFA Single Spindle Mixer for Machine Mounting



- **Performance**

1/3 HP motor delivers all the exceptional mixing of the HMD200

- **Operation**

Powers on through a pulse-switch located on the soft-serve ice cream machine. One speed. Does not have a speed selector switch. Includes 929 agitator.

- **Precision Motor**

Each motor is individually balanced to minimize vibration. Built to last with sealed, permanently lubricated ball bearings.

- **Durable**

All-metal, die cast construction offers durability in a smooth, rounded shape that is easy to clean. Vent-free housing design prevents contaminants from entering the housing and damaging the motor.

- **Dimensions**

Length: 6.75", Width: 6.75", Height: 19.75"

- **Ratings**

NSF, Approved for Commercial Use, 220V, 60Hz, 1A

- **Warranty**

1 Year Warranty. All service should be handled by calling Technical Services at 866-285-1087 (or 910-693-4277.)



SPECIFICATION SHEET

ITEM # 300d

ITEM DESCRIPTION: TOPPING DISPENSER/HOLDER

MANUFACTURER: ALL SOUTHERN FABRICATORS

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

MOUNTED ON ITEM #300X - RIGHT OR LEFT HAND MOUNT

ISSUE DATE:

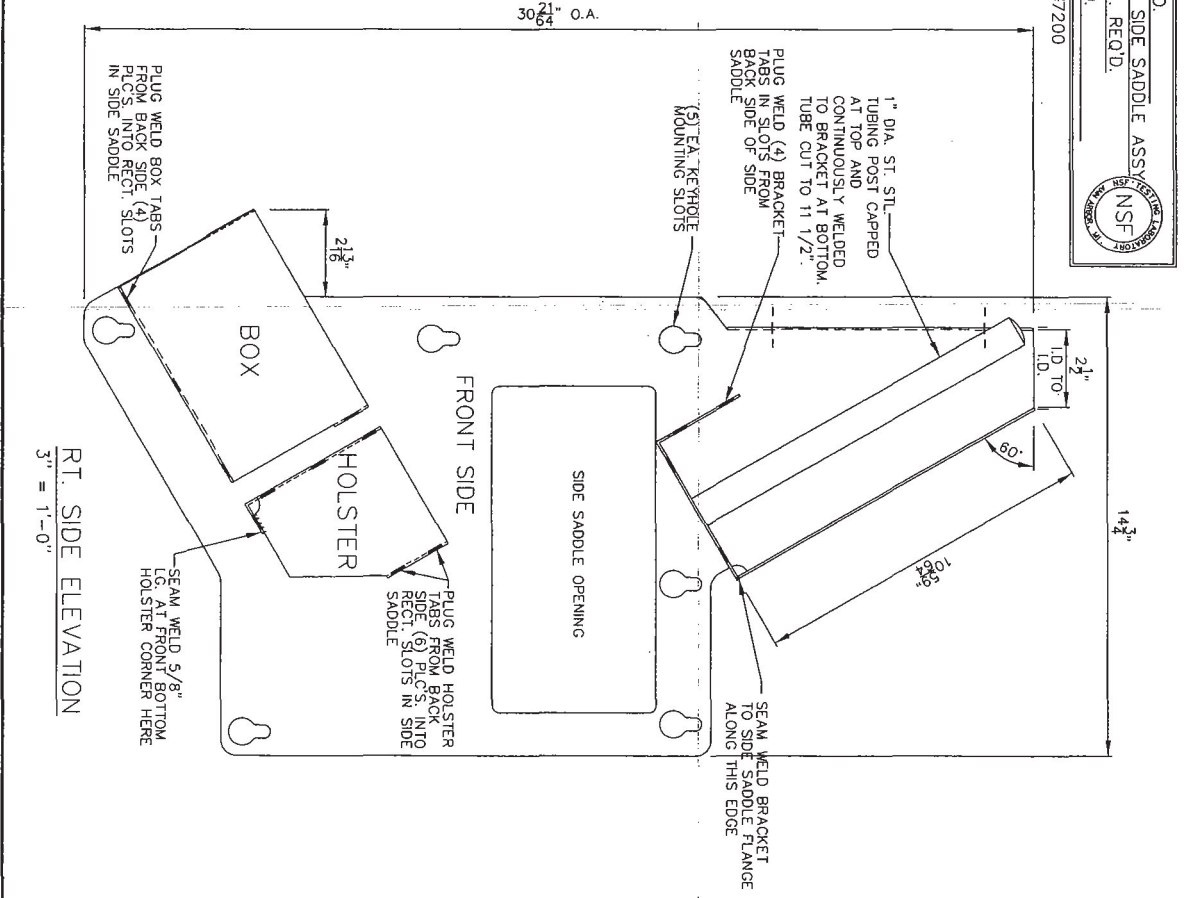
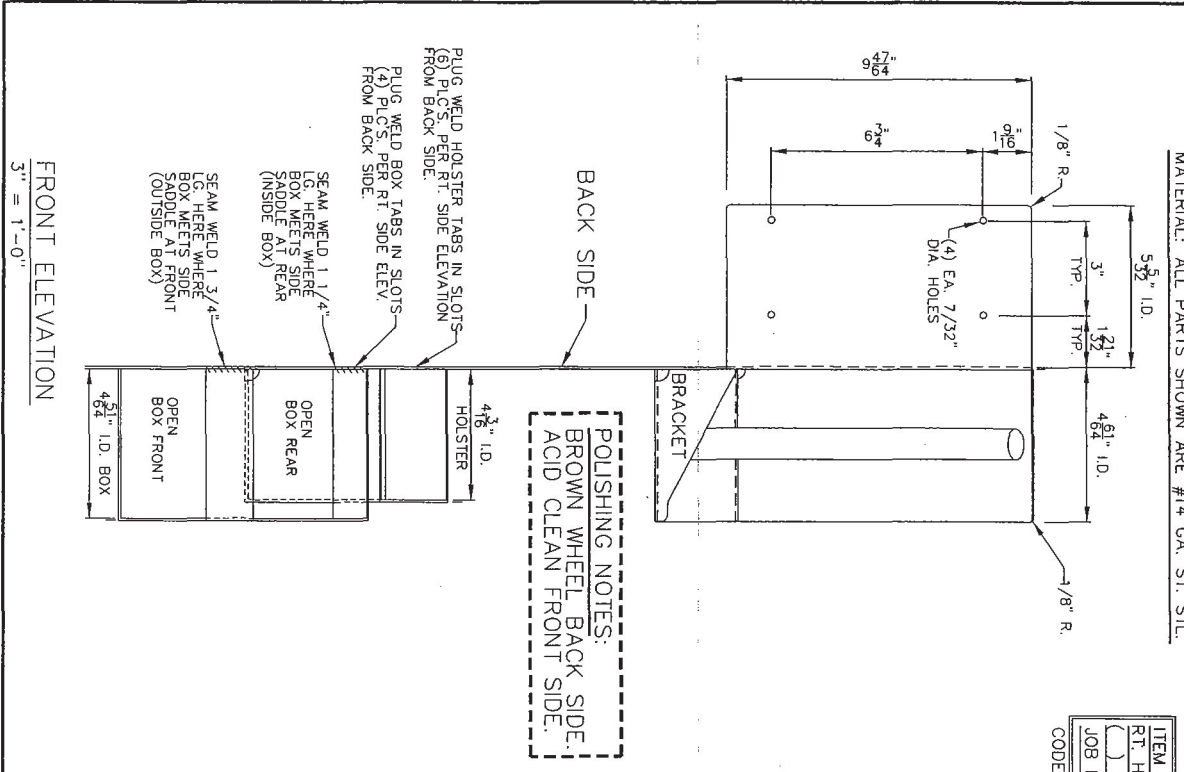
11/15/2017

ITEM # 300d

CHICK-FIL-A

MATERIAL: ALL PARTS SHOWN ARE #14 GA. ST. STL.

ITEM NO.	RT. HD. SIDE SADDLE ASSY.
() EA. REQ'D.	NSF
JOB NO.	
CODE #	7200



JOB NO.	TITLE	REV.	DATE	REVISION	BY	TIMES	DATE	BY	REL.
	RT. HD. SIDE SADDLE ASSY.								
	CUSTOMER	CHICK-FIL-A							
SHEET	BY	DATE	COMP. DWG. NO.	NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO ALL SOUTHERN FABRICATORS. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY, AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF ALL SOUTHERN FABRICATORS.					
1	C.C.	1-3-06	PROJECTS						
OF	CHK.		CHICK-FIL-A						
3	APP.		7200 RT. HD. SIDE SADDLE ASSY SHT1						
	SCALE	NOTED							

ALL SOUTHERN FABRICATORS
 P.O. BOX 658 - PINELLAS PARK, FLA. 33780
 5010 126th AVENUE NORTH - CLEARWATER, FLA. 33
 PHONE: 727-573-4848 FAX: 727-573-2360





SPECIFICATION SHEET

ITEM # 300f

ITEM DESCRIPTION: DOUBLE SLIMLINE COOKIE DISPENSER

MANUFACTURER: SERVER MODEL #88847

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

MOUNTED ON ITEM #300d

ISSUE DATE:

5/28/2021

ITEM # 300f



SERVER

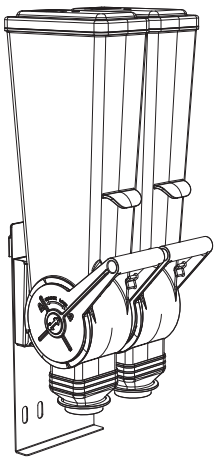
Server Products Inc.
3601 Pleasant Hill Road
Richfield, WI 53076 USA

262.628.5600 | 800.558.8722

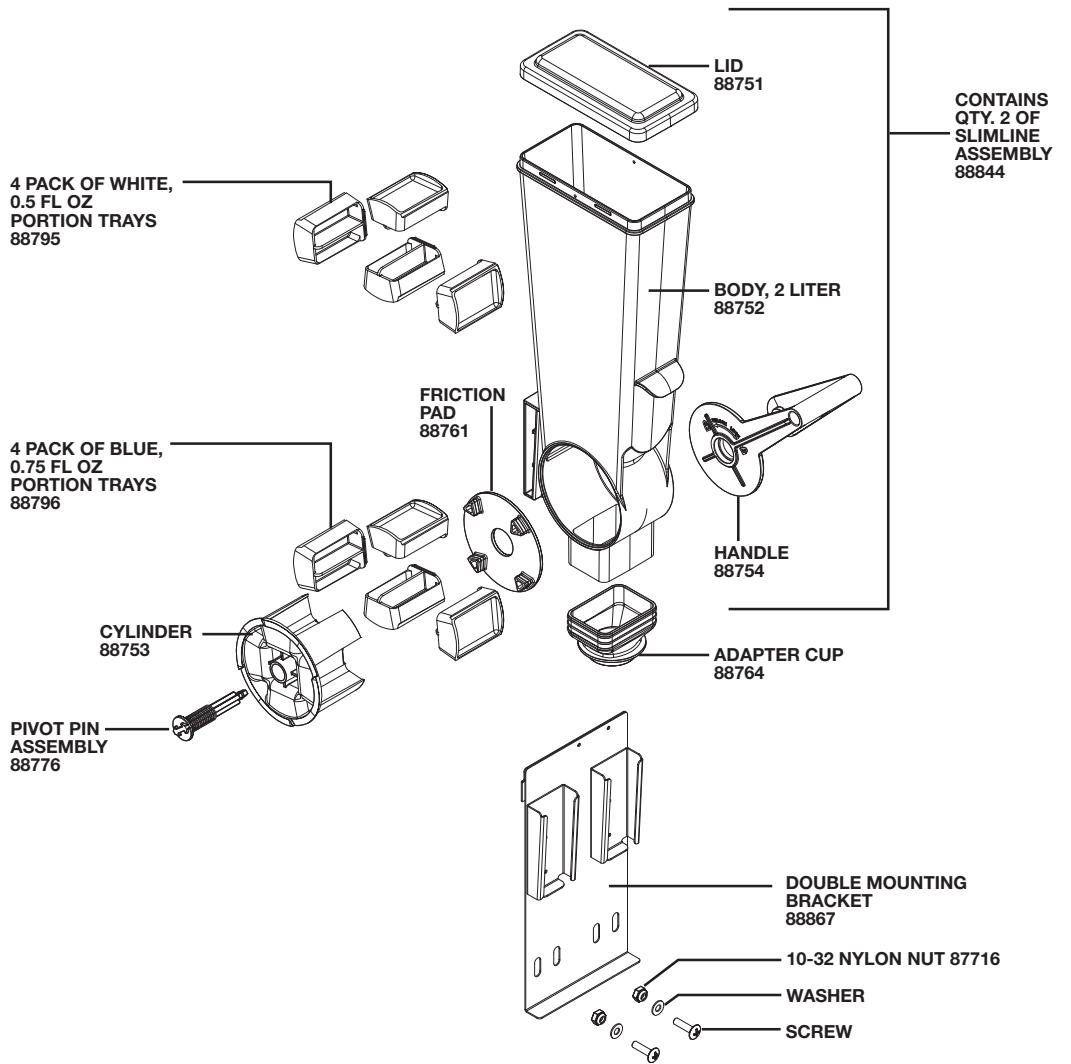
SPSALES@SERVER-PRODUCTS.COM

88847

SlimLine DFD-2L, Chick-fil-A®, Double with Bracket



Complete View for Reference





SPECIFICATION SHEET

ITEM # 300X

ITEM DESCRIPTION: DOUBLE BARREL ICE CREAM MACHINE

MANUFACTURER: TAYLOR MODEL #079333FNDC (AIR COOLED)

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 208
 PH: 3
 KW:
 AMP: 19.0/15.0
 HP: 1.5/1.5
 NEMA RATING: 15-30P/15-20P

HW:
 CW:
 FW:
 FW2:
 IW:
 ROUGH-IN:

REMARKS:

PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS

ISSUE DATE:
10/25/2017

ITEM # 300X



793

Soft Serve Freezer

Twin Twist

Features

Custom designed for Chick-fil-A. Serve popular soft serve dessert creations with two separate soft serve flavors, or an equal combination of both in a twist. Spin best flavored milkshakes from two front mounted blenders.

Freezing Cylinder

Two, 3.4 quart (3.2 liter).

Mix Hopper

Two, 14 quart (13.2 liter). Separate hopper refrigeration (SHR) maintains mix below 41°F (5°C) during Auto and Standby modes.

Indicator Lights

Mix Low light alerts operator to add mix.

Electronic Controls

Softech™ is our exclusive microprocessor based master control that regulates refrigeration by measuring product viscosity to maintain consistent quality.

Standby

During long no-use periods, the standby feature maintains safe product temperatures in the mix hopper and freezing cylinder.

Two Locking Casters

Front casters have a locking feature for operators to lock to maintain equipment in place. The locking casters can be released to move the equipment for cleaning.

High Capacity Freezer Door

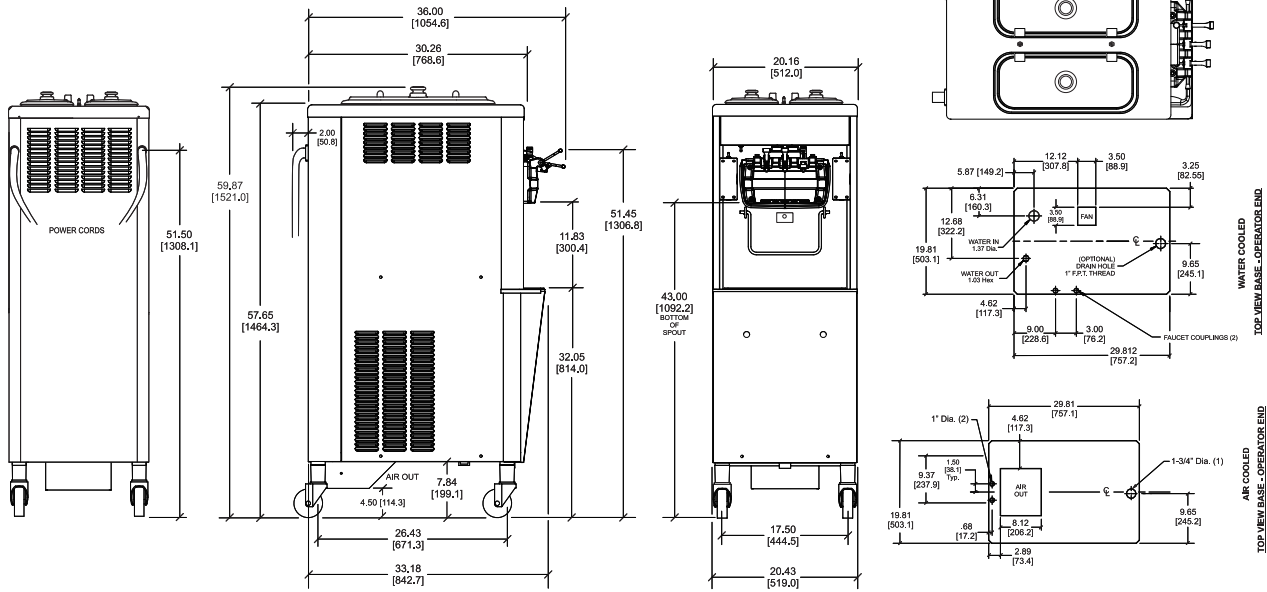
A specially designed for Chick-fil-A thermo-plastic door allows quick ejection of product with a simple movement of the draw handle. Self closing draw handles are standard.

Door Interlock System

Protects the operator from injury as the beater will not operate without the dispensing door in place.



793 Soft Serve Freezer



FIGURES IN BRACKETS INDICATE MILLIMETERS / DECIMAL DIMENSIONS EQUAL TO (PLUS OR MINUS 1/16 INCH [1.5mm]).

Weights	lbs.	kg.
Net	640	290.3
Crated	699	317.1
	cu. ft.	cu. m.
Volume	48.9	1.38

Dimensions	in.	mm.
Width	20-3/16	512
Depth	33-3/16	842
Height	60	1524
Floor Clearance	7-7/8	199

*Mounted on standard casters

Electrical	Total Amps		Supplied with Service Cords and Plugs	
	Left	Right	Left	Right
208-230/60/3 Air	19	15	HBL8432C	HBL8421C
208-230/60/3 Water	19	15	HBL8432C	HBL8421C

This unit may be manufactured in other electrical characteristics. Refer to the local Taylor Distributor for availability.

(For exact electrical information, always refer to the data label of the unit.)

Bidding Specs

Electrical: Volt _____ Hz _____ ph _____
 Neutral: Yes No **Cooling:** Air Water NA

Options: _____

Specifications

Electrical

Two dedicated electrical connections are required. See the Electrical chart for the proper electrical requirements. Unit supplied with two cords and plugs.

Beater Motor

Two, 1.5 HP.

Refrigeration System

Two, 9,500 BTU/hr. R404A.

Separate Hopper Refrigeration (SHR), One, 400 BTU/hr. R134a. (BTUs may vary depending on compressor used.)

Air Cooled

Minimum 3" (76 mm) around all sides. Install the deflector provided to prevent recirculation of warm air. Minimum air clearances must be met to assure adequate air flow for optimum performance.

Additional Features

- Specially Designed Mix Feed Tube
- Front Mounted Pull Handle
- Air Deflector

Continuing research results in steady improvements; therefore, these specifications are subject to change without notice.



Taylor Company,
 Rockton, Illinois 61072
 815-624-8333 **800-255-0626** Fax 815-624-8000
www.taylor-company.com



SPECIFICATION SHEET

ITEM # 301C

ITEM DESCRIPTION: CUP DISPENSER & LID ORGANIZER

MANUFACTURER: WIREWORKS MODEL #C8504WF

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

PROVIDED BY CFA WAREHOUSE

ISSUE DATE:

10/23/2017

ITEM # 301C

TECHNICAL DATA SHEET

Wireworks™ Cup Dispenser and Lid Organizer

Product Code: C8504WFD

3 Tier Cup dispenser, 1 Tier lid organizer, 2 Side panels

San Jamar's Wireworks™ cup dispenser dispenses paper, plastic, or foam cups smoothly, one-at-a-time to reduce waste and save money. It's minimal maintenance and easy adjustments allow customers to dispense a variety of cup sizes and types at a low cost.

REDUCE OPERATING COST

One-at-a-time dispensing
Eliminate Cup Waste
Universal- dispenses any brand or type of cup
Change cup sizes at any time

IMAGE

Keeps cups and lids organized
Easy, front or back loading
Attractive countertop model; no installation required

HYGIENE

Side panels protect cups

LABOR SAVINGS

High Capacity
No tools or installation required

TYPE

Countertop

Material

Wire form: steel
Lid tray: HIPS
Dispensing spring: silicone rubber
Side panels: Sintra

Dimensions

Wire frame only: 24.50"H x 6.50"W x 18.25"D
(622 mm x 165 mm x 463 mm)

Capacity

Up to 270 cups

Rim Diameters

3-1/8" – 4"
(dispenses up to 4-1/2" on bottom level)

Cup

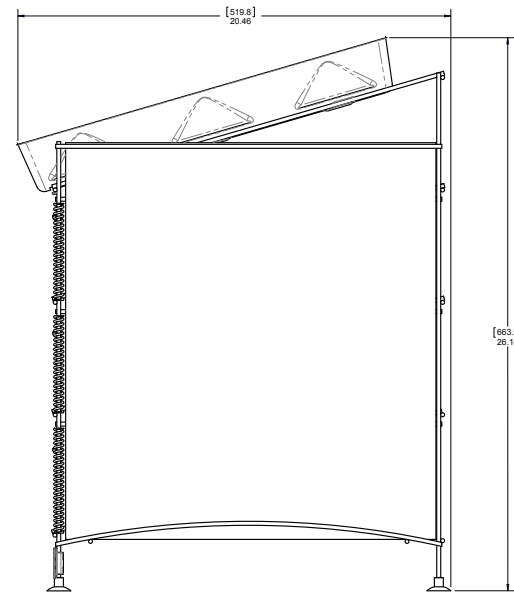
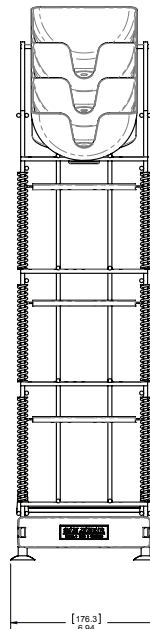
Paper, plastic, foam
8-44 ounces

Case Weight:

9.50 lbs

Also Available:

C8503WF: 2 cup tiers, 1 lid organizer
C8503WFD: 2 cup tiers, 1 lid organizer, 2 side panels
C8504WF: 3 cup tiers, 1 lid organizer



SAN JAMAR

Smart ♦ Safe ♦ Sanitary



SPECIFICATION SHEET

ITEM # 305

ITEM DESCRIPTION: TEA BREWER

MANUFACTURER: WILBUR CURTIS MODEL #TCTT-10000

ELECTRICAL SPECIFICATIONS:

VOLT:	120
PH:	1
KW:	1.65
AMP:	13.8
HP:	
NEMA RATING:	5-20P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	3/8"
FW2:	
IW:	
ROUGH-IN:	P-24 @ 60" AFF

REMARKS:

QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE

ISSUE DATE:

11/15/2017

ITEM # 305



G3 DIGITAL ICED TEA BREWING SYSTEMS

MODELS: TCTS10(200/600-Rotating Brew Cone), TCTT10, PTT310



TCTS - with rotating brew cone and dual dilution spouts. Shown with 2 narrow tea dispensers



PTTS - with standard tea toter dispenser

ITEM NO

PROJECT

DATE

FEATURES AT A GLANCE

- **G3 Digital Control Module** – Provides precise control for gourmet fine tuning with pulse-brewing, delay, and all critical brewing functions.
- **G3 Enhanced Tea Flavor & Clarity** – With digital accuracy, two separate precision valves provide unsurpassed control over concentrate brewing and dilution cycles.
- **“Fast Brew” Option** – Program selectable. Shortens brew time by allowing concentrate and dilution cycles to run at the same time.
- **Intuitive Scroll-Through Precision Programming** – Large, brightly lighted display communicates functions at a glance. Easily adjust time, volume, temperature, brew functions and more.
- **On-Board Self Diagnostics** – G3 continually senses proper brewing operation. A Service Phone Number and error code will be displayed in the rare event technical assistance is required... reducing downtime.
- **Cold Water Brew Lock-Out** – Prevents brewing when water temperature is below set level.
- **Standard 120VAC Operation** – Makes installation quick and simple.

TCTS10200 – Sweet Tea

- **“Sweet Tea” Brewer** – Complete with electric pump. Program selectable for regular or sweet tea.

TCTS10600-Rotating Brew Cone

- **Rotating Brew Cone** – New brew cone allows for multiple teas to be brewed in one footprint.
- **Dual Dilution** – Two dilution spouts allow for two teas on one brewer.



Easily brew multiple teas from one brewer. Dual dilution spouts and rotating brew cone allows for brewing two teas without moving serving vessels.

The Curtis G3 Tea Brewing Systems – incredible tea flavor, simple operation, reduced maintenance.

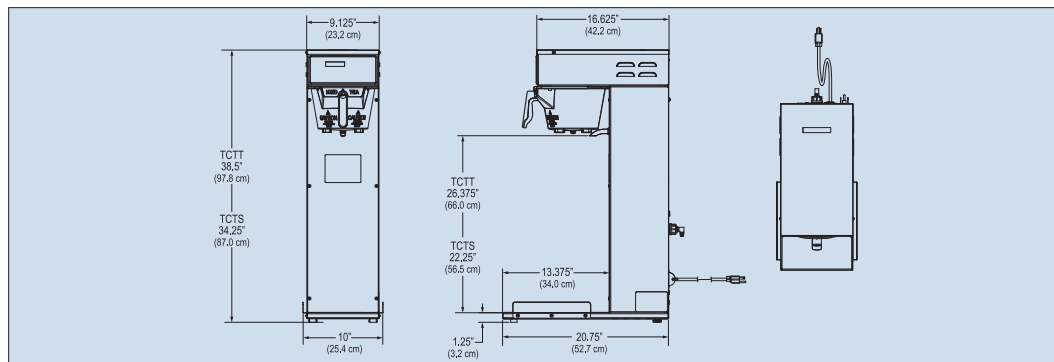
At the center of the Curtis G3 Tea Brewing Systems is its unique Universal Control Module. The G3’s oversized LCD display and simple interface makes “scroll-through” programming incredibly easy. Of course, there’s no need to adjust the system, as Curtis’ pre-programmed factory settings deliver ideal results right out of the carton. Simply add bulk leaves or flow-thru filter packs and press the brew button for gallons of flavorful iced tea in just minutes.

Curtis G3 Systems include a host of new features designed to optimize tea quality including... digital temperature and brew-by-volume control, PM alerts, cold water brew lock-out, and much more. The result is perfect tea flavor and clarity, which keeps customers – and profits – returning.

Select from the low-profile PTT3 with movable “TeaToter” dispenser or the TCTS, TCTT or Sweet Tea for direct-to-dispenser high-volume brewing.

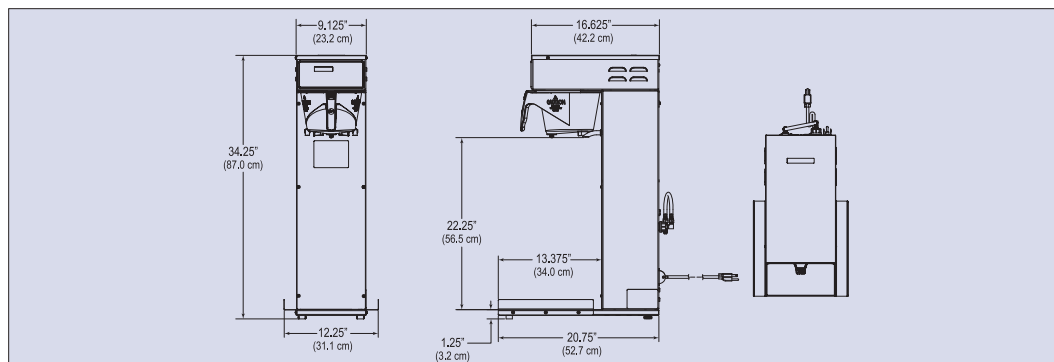
TCTS10 TCTT10 Sweet Tea

Dispenser Not Included



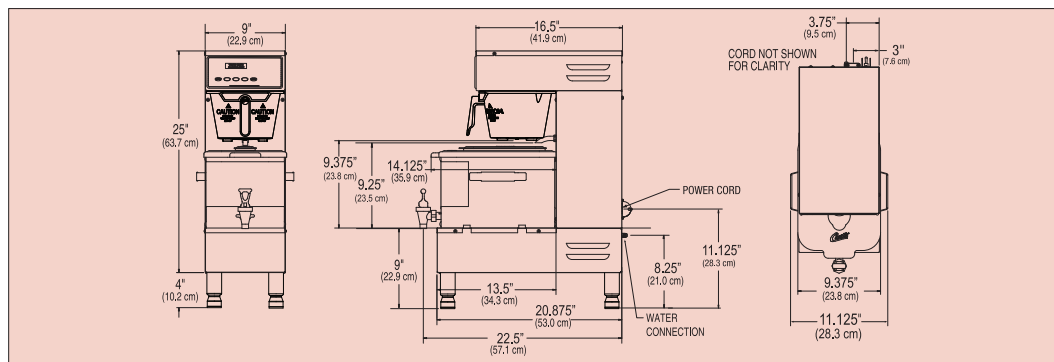
TCTS10600

with Rotating Brew Cone
Dispenser Not Included



PTT310

TC0308 Dispenser Included



Specifications	TCTS10	TCTT10	TCTS10600 (Rotating Brew Cone)	PTT310
Finished Brew Capacity	3 to 5 Gallons	3 to 5 Gallons	3 Gallons	3 Gallons
Dimensions (H x W x D)	34.25" x 9.125" x 20.75"	38.5" x 9.125" x 20.75"	34.25" x 9.125" x 20.75"	29" x 9" x 20.875"
Voltage*	120VAC/60Hz	120VAC/60Hz	120VAC/60Hz	120VAC/60Hz
Power Requirements	1650W/13.8A	1650W/13.8A	1650W/13.8A	1650W/13.8A
Cord & Plug	6 ft/NEMA 5-15P	6 ft/NEMA 5-15P	6 ft/NEMA 5-15P	6 ft/NEMA 5-15P
Water Inlet	1/4" Flare	1/4" Flare	1/4" Flare	1/4" Flare
Shipping Weight	40 lbs.	43 lbs.	42 lbs.	44 lbs.
Cube (cu. ft.)	9.5	10.2	9.5	7.3

* Other voltage and wattages are available upon request

Iced Tea Dispensers	TC0308 (Oval)	TCORS (Stand)	TC0421 (Oval)	TC-3H (Round)	TCN (Narrow)
Fits Brewer Model	PTT310	PTT310	TCTS10(200/600) TCTT10	TCTS10(200/600) TCTT10	TCTS10(200/600) TCTT10
Capacity	3 Gallons	N/A	4 Gallons	3.5 Gallons	3.5 Gallons
Faucet Clearance	N/A	N/A	9.875"	8.125"	8.125"
Dimensions (H x W x D)	9" x 11.125" x 13.5"	10" x 14" x 14"	21" x 11" x 15"	9.375" Diameter	22.125" x 5.625" x 15.75"
Overall Height	9"	10"	21.71"	22.75"	22"
Shipping Weight	8 lbs.	8 lbs.	14 lbs.	9 lbs.	11 lbs.
Cube (cu. ft.)	.98	1.25	2.72	1.62	1.67



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JUN/11 - 12625 F-3360 rev.H



SPECIFICATION SHEET

ITEM # 308

ITEM DESCRIPTION: SINGLE COFFEE MAKER

MANUFACTURER: WILBUR CURTIS MODEL #TP2S10A3140

ELECTRICAL SPECIFICATIONS:

VOLT:	208
PH:	1
KW:	4.0
AMP:	19.2
HP:	
NEMA RATING:	L14-30P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	3/8"
FW2:	
IW:	
ROUGH-IN:	P-24 @ 60" AFF

REMARKS:

QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE

ISSUE DATE:

10/23/2017

ITEM # 308



ITEM NO _____

PROJECT _____

DATE _____

Gourmet Brewing, Instantly Easy.

- G3 Digital Control Module provides precise control over all aspects of brewing in an intuitive, easy-to-operate system
- Pre-Set Global Recipes at the touch of a single button – no complex equipment required
- Stainless-steel ThermoPRO™ vacuum-sealed servers keep coffee fresh, hot and flavorful
- Single unit is field selectable for One, Two or Three Batch brewing
- Enhanced Recovery Circuitry – boosts performance on 220V/single phase models
- All features Standard from Curtis... extra from others



G3
GENERATION
THREE

The Curtis ThermoPro™ Brewing System

Incredible Advanced Design — Incredibly Easy to Use

With Generation Three (G3) technology and the state-of-the-art ThermoPro™ vacuum sealed servers, Curtis introduces the most advanced gourmet coffee brewing system on the market today. The unique Universal Control Module, easy to read display and simple interface make operating easy.

ThermoPro™ systems are available in both single and twin, designed to optimize coffee quality and flavor, while reducing maintenance and service. The unique stainless-steel vacuum servers maintain coffee temperature, preserving the rich and bold flavor without the need for additional heat. On-board self diagnostics continually sense proper brewing operations and a Service Phone Number and error code are displayed in the event technical assistance is required.

Curtis G3 Technology combines precision brewing capability with an easy-to-use interface. All brewing functions are displayed in real time, not a coded system of indicators. Curtis ThermoPro systems are factory set for out-of-the-box operation with pre-programmed recipes that ensures a consistent brew, every time. And, with scroll-through menus it's just as easy to fine-tune the brewing process for your exacting gourmet coffee profile.



G3 Digital Control Module

Complex flavor from simple controls.

- Precise, digital fine-tuning of the brewing process — optimizes signature coffee flavor.
- Provides gourmet coffee control with Pre-Infusion, Pulse Brewing, Water Bypass and more. *No manual adjustments needed.*
- Pre-set, one-touch Global Recipes* — based on coffee type, grind and weight — simplify profile setting for gourmet results every time.

*Recipes are based on SCAA Guidelines.

New Faucet Design Eliminates Heat Loss

Curtis unique faucet and connection practically eliminates heat loss to maintains coffee's rich flavor.

Alternative designs create a "heat sink" outside the vacuum area and can cause significant heat loss.



Simplicity combined with complete flexibility.

- **Proprietary Heating Algorithm** maintains brew temperature to ensure optimal flavor extraction.
- **Fully customizable brew settings** can be set for each individual brew button.
- **Simple, easy-to-understand graphic overlay.**
- **Large LCD display** provides scroll-through menu of programming options.
- **All brewer functions are clearly displayed in real time.**
- **Single control module** — speeds learning across multiple systems.
- **Automatic notification of preventative maintenance needs or service requirements.**
- **Common parts and front access** create an easy to service unit.
- **Error codes/condition/service phone number automatically displayed.**
- **Encapsulated control board, components and switches** protect against steam, water and impact.
- **User defined Energy Saving Circuitry** reduces power consumption.
- **One touch grind-to-brew** — when combined with a Curtis ILGD Digital Grinder, brew cycle is automatically adjusted to correspond with selected grind amount for error-free brewing (three batch option only).
- **High-volume, hot water faucet** for instant beverages and other hot water needs.
- **Nationwide network of factory trained service professionals.**
- **Optional electronic brew cone lock.**

PRE-SET GOURMET BREW RECIPES... AT THE TOUCH OF A BUTTON.

While other "gourmet" brewing systems may require expensive and complicated additional equipment to fine tune the brewing process, Curtis ThermoPro Systems accomplish these settings at the touch of a button!

One simple button lets you select your brew from a variety of pre-programmed coffee recipes. When enabled, the recipe programming will precisely set ALL gourmet functions automatically... from pre-infusion to pulse brewing to water bypass percent. And, you can fine tune your signature beverage even further.

Standard recipes include: Gourmet Standard,* Dark Roast, Light Roast, High Yield, Filter Pack and Decaf.

**Our out-of-the-carton default setting.*

VERSATILITY FOR YOUR VERSATILE NEEDS

Because different operations require different types of service, the ThermoPro™ Digital Coffee Brewing System is designed to meet your specific needs. Whether your brewing for restaurant table service, a hotel lobby or the neighborhood C-Store, the ThermoPro™ is ready. In both the single and twin models, the vacuum servers will always provide the freshest coffee available.

ThermoPro Stainless Steel Vacuum Servers

- Attractive design complements hotel lobbies, service bars or even back of the house.
- Full vacuum seal keeps brewed coffee hot and fresh.
- Stainless steel liner for commercial durability.
- Integral base is locked on yet can be quickly released for cleaning, or placement on a remote stand.
- Brew through top keeps heat and flavor in.
- Uniquely designed faucet and sight glass connections practically eliminates heat loss.
- Sturdy flip-up handle and dual function faucet guard provide multiple carrying points for ease of transportation.
- Separate drip mat for easy cup location and cleaning.
- Standard faucet clearance for cup or decanter service.
- Sight glass cover conceals two spare sight glasses and cleaning brush.
- Optional serving stands available.



Restaurant
Table Service

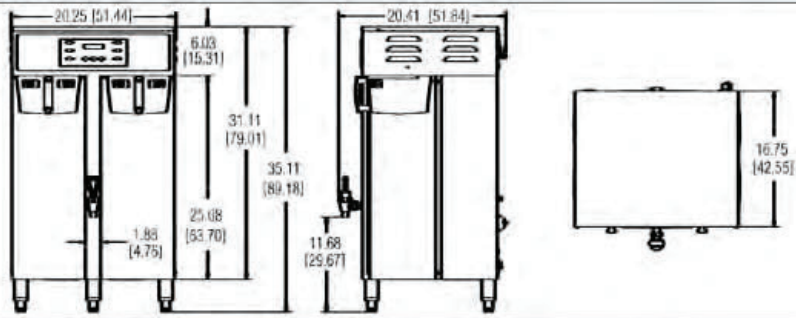


Hotel
Lobby Service

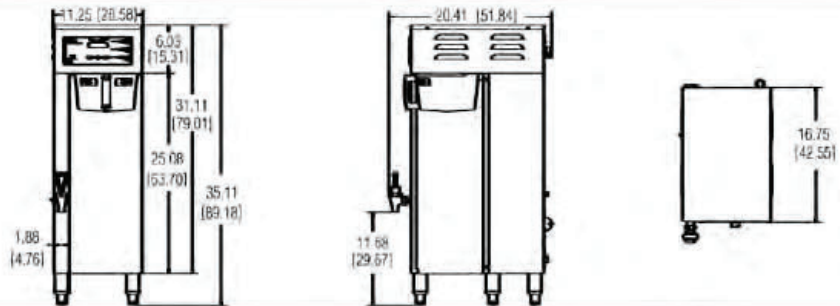


Service Bar/
C-Store Service

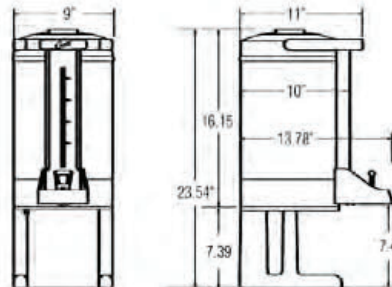
TP2T Twin



TP2S Single



TLXG02 ThermoPro Server



Specifications	Batch Brewing Selections	Finished Brewing Capacity	Dimensions (HxWxD) rounded to .25"	Voltage	Power Requirements	Water Source	Shipping Wt. (lbs.) w/o server	Cube (cu. ft.)
TP2T Twin (Includes 2 servers)	6	3 Gal. (1½ per side) (max. 4 gal.)	35.25" x 20.25" x 16.75"	220V/Single Phase* 3 Wire Plus Ground	5100W/7600W***	¾" Compression	68	14.3
TP2S Single (Includes 1 server)	3	1½ Gal. (max. 2 gal.)	35.25" x 11.25" x 16.75"	220V/Single Phase** 3 Wire Plus Ground	4000W	¾" Compression	55	9.1
TLXG02 Server (Includes base)	N/A	1½ Gal. (max. 2 gal.)	23.5" x 9" x 13.75"	N/A	N/A	N/A	17	2.7

*Optional 220VAC/3 Phase—Specify 3 Wire or 4 Wire Plus Ground. **Optional Dual Voltage 120/220VAC
***Field convertible to higher wattage. Export Voltage Available — contact factory.

Field Changeable Enhanced Recovery Circuitry

ThermoPro Twin* units ship standard with a robust 5000 watts of recovery power. Should you have a higher rated circuit at the installation, a single connection change*** boosts the ThermoPro to a powerful 7500 watts providing enhanced recovery and brewing speed.

NOTE: *220VAC/Single Phase Models Only

***Should be connected only by a qualified installation technician.

WILBUR CURTIS COMPANY, INC.

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Find the latest on the web at
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SPECIFICATION SHEET

ITEM # 308a

ITEM DESCRIPTION: COFFEE WARMER

MANUFACTURER: WILBUR CURTIS MODEL #TFT1G3040

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

MOUNTED ON ITEM #308b

ISSUE DATE:

2/2/2016

ITEM # 308a



THERMAL FRESHTRAC™ (TFT) 1.5 GALLON AND 1.0 GALLON DISPENSERS

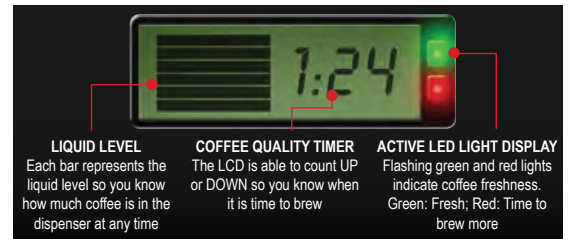
MODEL: TFT15G, TFT15G2, TFT15G3, TFT1G, TFT1G2, TFT1G3

FEATURES AT A GLANCE

- **Twin LEDs** — Enables you to easily check coffee quality – even from across the room
- **Stand Alone Operation** — Curtis TFT requires no connection with the brewing system
- **Universal Fit** — Curtis TFT is designed to fit existing models of Curtis Thermal Servers.
- **Brew-Through Convenience** — Maintains coffee flavor, temperature and quality
- **Long Service Life** — Curtis TFT high-tech power module features a one-year performance guarantee

HOW IT WORKS

Thermal FreshTrac™ coffee dispensers use a lid that has a combination gauge containing three indicators:



TFT15G (Lockable Base)
TFT15G3 (Non-Lockable Base)
1.5 Gallon Thermal FreshTrac™
Dispenser



TFT1G (Lockable Base)
TFT1G3 (Non-Lockable Base)
1.0 Gallon Thermal FreshTrac™
Dispenser



TFT15G2
1.5 Gallon Thermal FreshTrac™
Dispenser without Base



TFT1G2
1.0 Gallon Thermal FreshTrac™
Dispenser without Base

CURTIS THERMAL FRESHTRAC™

SIGNALS, MONITORS, AND MANAGES COFFEE QUALITY & VOLUME

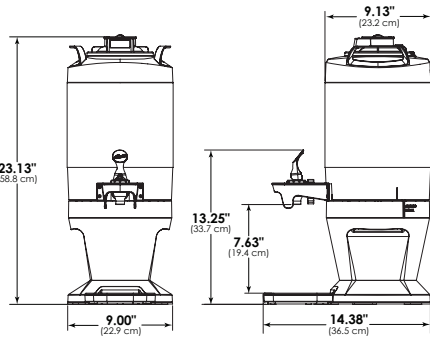
The key to a well executed coffee program is consistently serving hot, fresh coffee every time. Monitoring the holding time and the amount of coffee in a dispenser is crucial to freshness and quality. Without proper management, coffee can get cold or stale from sitting too long. Even worse, dispensers can run out and customers have to wait for a new brew.

Curtis' Thermal FreshTrac™ is a simple visual system that communicates time and volume that's easy to see, even from across the room. The FreshTrac™ system is activated from the moment coffee is brewed into the dispenser to keep your coffee program on track.

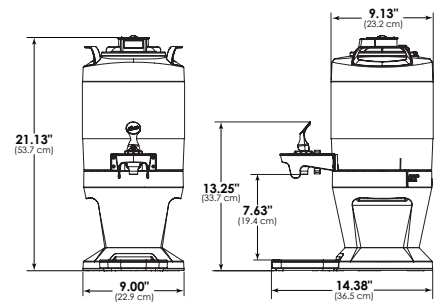
1. **Liquid Level** — At-a-glance you can easily see how much coffee is in the dispenser so you know when it is time to brew again.
2. **Coffee Quality Timer** — The digital time display can be programmed to count up or down so holding time can be monitored easy and efficiently.
3. **Active LED Light Display:**

- **Wake Up Mode (Green-Red-Green):** Once the brew cycle has started, two LED lights flash green-red-green to indicate the TFT has been activated
- **Coffee is Fresh (Green):** The TFT continues to flash green every 6 seconds to communicate that the coffee is fresh and the dispenser has more than 24 ounces in it. The Green LED is set to blink for 1 hour and 50 minutes
- **Warning Mode (Green-Red-Green):** The LED lights flash green-red-green every 6 seconds when it is 10 minutes prior to expiration or when the coffee level between 12 and 24 ounces
- **Time is Expired and/or Dispenser is (nearly) Empty (Red):** The light flashes red every 6 seconds for 60 minutes when the timer has expired or the dispenser is empty or nearly empty (less than 12 ounces)

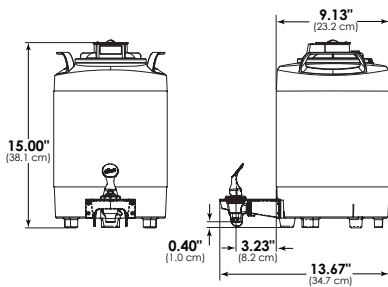
TFT15G/TFT15G3
1.5 Gallon Dispenser
with Base



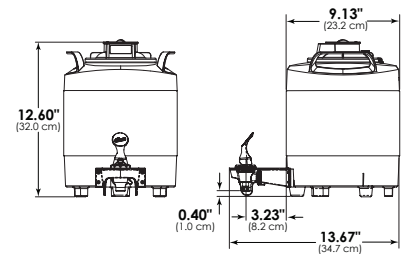
TFT1G/TFT1G3
1.0 Gallon Dispenser
with Base



TFT15G2
1.5 Gallon Dispenser
without Base



TFT1G2
1.0 Gallon Dispenser
without Base



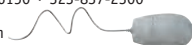
Specifications

MODEL #	DESCRIPTION	CAPACITY	HEIGHT	WIDTH	DEPTH	SHIP WEIGHT	SHIP CUBE
TFT15G	1.5 Gallon Thermal FreshTrack™ Dispenser with Lockable Base	1.5 Gallon	23.13"	9.13"	14.38"	15.0 lbs.	2.30 cu. ft.
TFT15G2	1.5 Gallon Thermal FreshTrack™ Dispenser without Base	1.5 Gallon	15.00"	9.13"	13.67"	12.0 lbs.	2.05 cu. ft.
TFT15G3	1.5 Gallon Thermal FreshTrack™ Dispenser with Non-Lockable Base	1.5 Gallon	23.13"	9.13"	14.38"	15.0 lbs.	2.30 cu. ft.
TFT1G	1.0 Gallon Thermal FreshTrack™ Dispenser with Lockable Base	1.0 Gallon	21.13"	9.13"	14.38"	15.0 lbs.	2.30 cu. ft.
TFT1G2	1.0 Gallon Thermal FreshTrack™ Dispenser without Base	1.0 Gallon	12.60"	9.13"	13.67"	11.0 lbs.	2.05 cu. ft.
TFT1G3	1.0 Gallon Thermal FreshTrack™ Dispenser with Non-Lockable Base	1.0 Gallon	21.13"	9.13"	14.38"	15.0 lbs.	2.30 cu. ft.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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SPECIFICATION SHEET

ITEM # 308b

ITEM DESCRIPTION: COFFEE WARMER STAND

MANUFACTURER: QUADRA TECH MODEL #CFA3QDT008

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
2/2/2016

ITEM # 308b



SPECIFICATION SHEET

ITEM # 310

ITEM DESCRIPTION: DOUBLE LEMONADE BUBBLER

MANUFACTURER: CRATHCO MODEL #CS-2D-16

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 120
PH: 1
KW:
AMP: 8.5
HP:
NEMA RATING: 5-15P

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

ORDER (1) #3CRA005 @ (1) #3CRA006

ISSUE DATE:

5/3/2019

ITEM # 310

Project

Date

Models

CS-2D-16

CS-2D-16-S

CS-2D-22

CS-2D-22-S

Item#

Quantity



model CS-2D-16

FEATURES

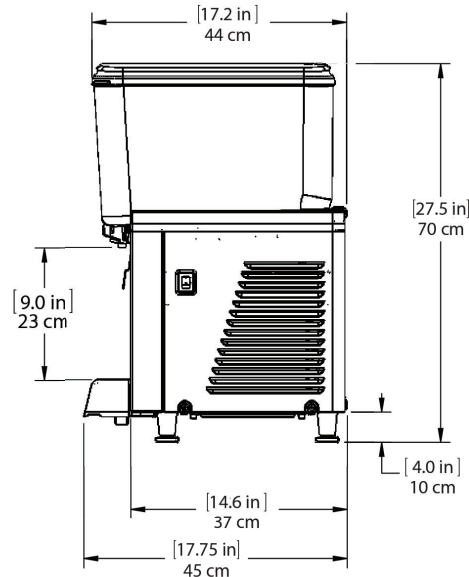
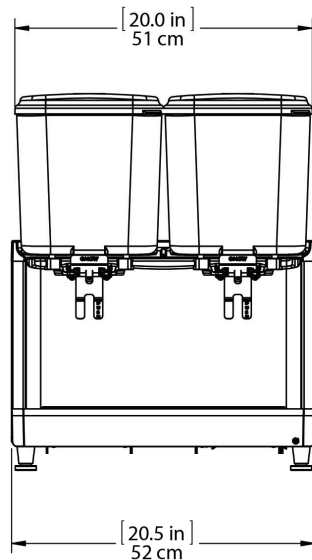
- Premix dispenser with stainless steel base and clear plastic bowls.
- Two flavors dispensed with (2) 4.75 gallon (18 L) bowls.
- Spray or Agitation model available.
- Agitation function for fresh juices, coffees, or teas with minimal foaming system.
- Spray function attracts more customers with dynamic moving product.
- Unique to Simplicity, the air intakes from the bottom and exhausts to back. This efficient cooling uses less energy and saves money.
- New easy-off bowl release system for faster and easier assembly and disassembly. No more reaching into the bowl makes cleaning easier and reduces labor.
- Compact size of 20.4" (52 cm) wide saves valuable counter space.
- 9" (22.9 cm) cup clearance for a variety of drinks.
- User-friendly design enables machine to dispense product till the very last drop.
- Fewer removable parts to simplify cleaning and reduce maintenance.
- Temperature range from 35 - 41° F (1.7 - 5° C).





SIMPLICITY™ BUBBLER® TWIN STANDARD

model CS-2D
represented



MODELS & SPECIFICATIONS

Model	Description	Electrical	Product Dimensions (H x W x D)	Ship Dimensions (H x W x D)	Ship Weight in Two Boxes
CS-2D-16* Base: (231-00234) Bowl: (231-00545)	(2) 4.75 gallon (18 L) bowls Agitator model	120V 60 Hz 8.5A	27.5" x 20.5" x 17.75" (70 cm x 52 cm x 45 cm)	Base: 20.8" x 19" x 24.8" (53 cm x 48 cm x 63 cm) Bowl: 25.6" x 22.4" x 12.2" (65 cm x 57 cm x 31 cm)	Total: 95 lbs. (43 kg) Base: 77 lbs. (35 kg) Bowl: 18 lbs. (8 kg)
CS-2D-16-S* Base: (231-00236) Bowl: (231-00546)	(2) 4.75 gallon (18 L) bowls Spray model	120V 60 Hz 8.5A	27.5" x 20.5" x 17.75" (70 cm x 52 cm x 45 cm)	Base: 20.8" x 19" x 24.8" (53 cm x 48 cm x 63 cm) Bowl: 25.6" x 22.4" x 12.2" (65 cm x 57 cm x 31 cm)	Total: 95 lbs. (43 kg) Base: 77 lbs. (35 kg) Bowl: 18 lbs. (8 kg)
CS-2D-22 Base: (231-00233) Bowl: (231-00545)	(2) 4.75 gallon (18 L) bowls Agitator model	230V 50/60 Hz 4.0A	27.5" x 20.5" x 17.75" (70 cm x 52 cm x 45 cm)	Base: 20.8" x 19" x 24.8" (53 cm x 48 cm x 63 cm) Bowl: 25.6" x 22.4" x 12.2" (65 cm x 57 cm x 31 cm)	Total: 95 lbs. (43 kg) Base: 77 lbs. (35 kg) Bowl: 18 lbs. (8 kg)
CS-2D-22-S Base: (231-00235) Bowl: (231-00546)	(2) 4.75 gallon (18 L) bowls Spray model	230V 50/60 Hz 4.0A	27.5" x 20.5" x 17.75" (70 cm x 52 cm x 45 cm)	Base: 20.8" x 19" x 24.8" (53 cm x 48 cm x 63 cm) Bowl: 25.6" x 22.4" x 12.2" (65 cm x 57 cm x 31 cm)	Total: 95 lbs. (43 kg) Base: 77 lbs. (35 kg) Bowl: 18 lbs. (8 kg)

***Electrical:** NEMA 5-15P line cord included.

Refrigeration: 1/10 hp.

Note: Product Dimension Height includes 4" (10 cm) legs.

OPTIONS

Condenser Filter (210-00585) - Protect your condenser with a removable, easy-to-clean filter

Merchandiser Kit (231-00293) - Attract more customers to unit with extra graphics

Liquid Autofill Control Box (2001-000) - Not for use with RO water systems



SPECIFICATION SHEET

ITEM # 350

ITEM DESCRIPTION: WATER FILTER SYSTEM

MANUFACTURER: SELECTO SCIENTIFIC T1 FILTER SYSTEM MODEL #80-6203CFB

ELECTRICAL SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

PLUMBING SPECIFICATIONS:

HW: _____
CW: _____ 1"
FW: _____ (6) 3/4"
FW2: _____ (2) 1/2"
IW: _____
ROUGH-IN: _____ SEE DET. 4/P-6.1

REMARKS:

RE: PLUMBING SHEETS FOR DETAILS

ISSUE DATE:
10/23/2017

ITEM # 350



CFA - T2



System Part #: 80-6203CFB
Replacement Cartridge #s: 108-0202

Materials of Construction

Filter Media	Housing	Head
Hollow carbon	polypropylene	Proprietary reinforced nylon

SMF IC620-2 system has been independently tested and certified by NSF International
 Do not use with water that is microbiologically unsafe or of unknown quality
 *Independently tested to remove or reduce chlorine and chloramines

Applications:

- Fountain & multiuse application such as ice, coffee, tea and juice

Benefits:

- No pre filter required
- Dirt, chemical and chloramines reduction
- Low pressure drop
- Improve taste of fountain beverages
- Provide safe, clean ingredient water
- Increase fountain sales
- Increase beverage carbonation
- Reduce equipment maintenance

Features:

- Ultra high porosity carbon with micro-structure
- Nylon construction withstands high pressure
- Modular filter design for up to 80% less installation time!
- Higher dirt holding capacity than conventional carbon block filters and other polypropylene sediment filters!
- Higher chloramine reduction than a conventional carbon block
- 1st jumbo sanitary filter on market, expendable, lead free components

Specified to:

- Reduce chlorine, chloramine, bad taste and odors, total organic compounds, volatile organic compounds, turbidity, nominal particulate Class 1, and cysts

Cartridge Specifications and Performance Data

Model	Maximum Dimensions	Micron Rating	Initial ΔP (psi) at Flow Rate (gpm)	Chlorine Taste & Odor Reduction at Flow rate (gpm)	Temperature Rating
CFA - T2	36" x 34" x 9"	0.5	1-5 psi @ 10 gpm @ 60 psi	200,000 gal @ 10 gpm	40°F to 100°F



3980 Lakefield Court • Suwanee, GA 30024 USA
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SPECIFICATION SHEET

ITEM # 360e

ITEM DESCRIPTION: HAND SINK

MANUFACTURER: EAGLE MODEL #YCFA-HSAN-0004-00

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: P-5

REMARKS:

WITH SIDE MOUNTING BRACKETS

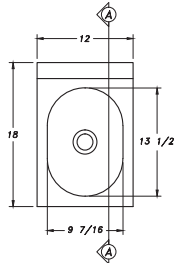
ISSUE DATE:

6/5/2019

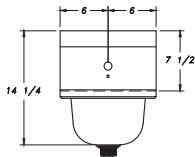
ITEM # 360e

FEATURES/COMPONENTS

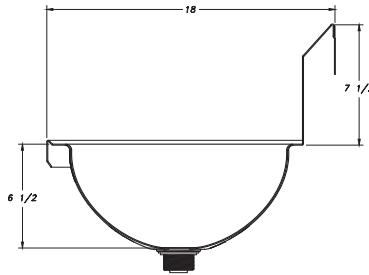
TAG	QTY	MANUF/VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	T&S	#EC-3101	FAUCET	OTHERS	OTHERS	1" & 1/2" HOLES PROVIDED BY EAGLE
②	1	EAGLE	#SS1235	DRAIN	EAGLE	OTHERS	1/2" NPT S/S DRAIN W/ LOCKNUT & WASHER



① PLAN VIEW
SCALE: 1"=1'-0"



② FRONT ELEVATION
SCALE: 1"=1'-0"



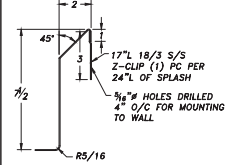
③ SECTION A-A
SCALE: 2"=1'-0"

EAGLE FABRICATION DETAILS

TOP: HEAVY GAUGE TYPE 300 S/S TOP W/ INTEGRAALLY FORMED MARINE EDGES AND BACKSPLASH
SINK: HEAVY GAUGE TYPE 300 S/S DEEP DRAWN SINK BOWL INTEGRALLY FORMED INTO TOP.



TOP
EDGE DETAIL



SPLASH DETAIL

REV	BY	DATE	DESCRIPTION

TRIMARK STRATEGIC	CHICK-FIL-A	QUOTE #
CONTROL #		

EAGLE
Special Fabrication
Quality Stainless & Millwork Fabrication
CLAYTON, DE 19837 FAX: 302-643-3397
WWW.EAGLEFAB.COM
ISO 9001:2008 CERTIFIED
WARRANTY INCLUDES

APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:		DATE:

SCALE: AS NOTED
TOL: +/- 1/16" ANG +/- 1"
ALL DIMS ARE UNLESS OTHERWISE NOTED
BY: RWD
OK
DATE: 5.18.18
SHT 1 of 1

ITEM #	QTY	DESCRIPTION
CONSULTANT:		HSAN-10

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SPECIFICATION SHEET

ITEM # 380a-386a

ITEM DESCRIPTION: ICE BIN SANITATION SYSTEM

MANUFACTURER: BIOZONE MODEL #IZ-X-20

ELECTRICAL SPECIFICATIONS:

VOLT:	120
PH:	1
KW:	0.0096
AMP:	
HP:	
NEMA RATING:	5-15P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	
IW:	
ROUGH-IN:	

REMARKS:

INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE

ISSUE DATE:

5/20/2019

ITEM # 380a-386a

BIOZONE

IceZone® X- 05, 10, 20, 30
Product Family: IceZone®
Model: X-05, X-10, X-20, X-30
Description: Sanitation System

POWER INFORMATION

Input Voltage: 100-240 V AC
Input Frequency: 50/60 Hz
Power Supply Output Voltage: 12 V DC
Amperage: 0.800 A
Electric Consumption: 9.6 W
Power Supply Capacity: 2.08 A

SIZING INFORMATION

-specified by daily ice production-

IZ-X-05: up to 600 lbs
IZ-X-10: between 600 and 1200 lbs
IZ-X-20: between 1200 and 1600 lbs
IZ-X-30: >1600 lbs

-high yeast environments may require a larger model

FEATURES

PlasmaPulse®
PlasmaProtect®
LED Status Indicators
NSF Compliant Universal Installation Kit

APPLICATIONS

Ice Machines
Ice Bins
Beverage Dispensers
Refrigerators
Cold Storage
Freezers
Food Storage

MOUNTING OPTIONS

Top, side, back, internal, and wall-mount configurations available

WARRANTY

Warranty valid in United States and Canada.
Contact factory for warranty in other countries.
One year Parts and Labor on entire unit.

Product Certifications:



IceZone®-X Sanitation System



IZ-X-20
Shown



IZ-X-20 Closed Loop
Shown installed on an ice machine

- Prevent slime and mold
- Keep ice machines, ice bins, and beverage dispensers clean
- Reduce equipment cleanings and associated costs
- Reduce bacteria, yeast, and other microorganisms
- Decrease technical malfunctions and equipment downtime
- Completely automated and chemical-free
- Maintenance free – requires a simple annual UV lamp replacement

© BioZone Scientific International, Inc.

7751 Kingspointe Parkway
Suite 124
Orlando, FL 32819
USA



IceZone® X- 05, 10, 20, 30
Product Family: IceZone®
Model: X-05, X-10, X-20, X-30
Description: Sanitation System

BIOZONE®

REORDER INFORMATION

Replacement UV Lamps

IZ-X-05: 10-08010

IZ-X-10: 10-08025

IZ-X-20: 10-08050

IZ-X-30: 10-08100

Replacement Power Supply

White (standard): 16-2000

Black (alternate): 16-2001

SPECIFICATIONS

Length: 12"

Width: 4.25"

Height: 2.2"

Weight: 1.3 lbs

CONTENTS

IceZone®

Power Supply

UV Lamp (pre-installed)

Lock Key

Owner's Manual and Installation Guide

Installation Kit

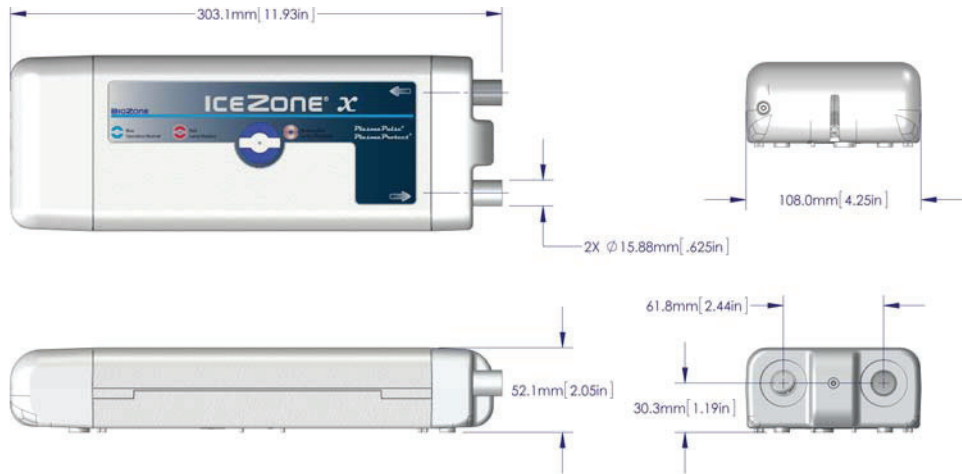
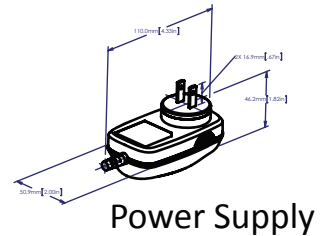
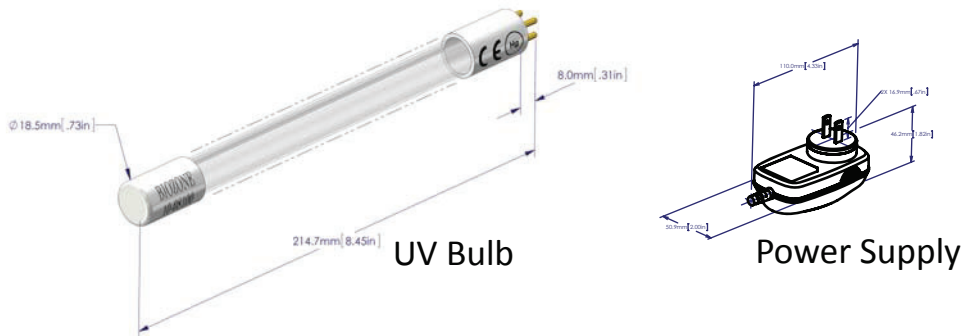
includes NSF compliant:

- tubing
- fittings
- clamps

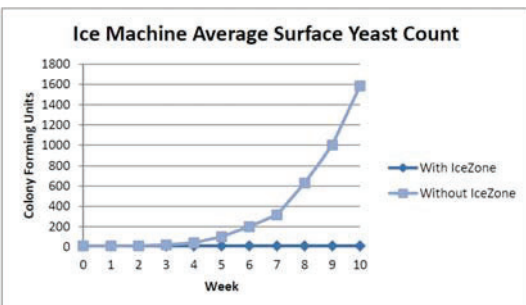
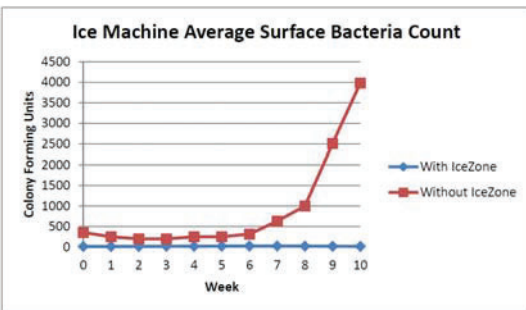


IZ-X-20 Mounting Options

Shown installed on (L-R) side, internal, and wall-mount



Compatible with all Major Ice Machine Manufacturers
 (new and retrofit installations of ice machine and ice bins)



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7751 Kingspointe Parkway
 Suite 124
 Orlando, FL 32819
 USA





SPECIFICATION SHEET

ITEM # 380A

ITEM DESCRIPTION: ICE MACHINE - AIR-COOLED

MANUFACTURER: FOLLETT HORIZON ELITE MODEL #HMC1410ABT

ELECTRICAL SPECIFICATIONS:

VOLT:	208
PH:	1
KW:	3.1
AMP:	14
HP:	
NEMA RATING:	6-20P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	1/2"
IW:	3/4"
ROUGH-IN:	P-23

REMARKS:

SELF-CONTAINED UNIT - INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6' CORD

ISSUE DATE:

11/26/2018

ITEM # 380A



Horizon Elite™

self-contained 1010, 1410 series Chewblet® ice machine

Features

Horizon Elite

- 1010 series - up to 1061 pounds (482 kg) in 24 hours
- 1410 series - up to 1466 pounds (665 kg) in 24 hours
- automatically transport ice through a tube with RIDE® technology from up to 75' (22.8 m) away
- chewable, compressed nugget ice is preferred over cubes¹
- Chewblet ice dispenses reliably from ice and beverage dispensers
- available with approximately 1.00" (2.54 cm) long standard Chewblet ice or optional 3/8" (0.95 cm) long Micro Chewblet™ ice
- environmentally responsible R404a refrigerant with zero ozone depletion potential
- quiet production without noisy harvest cycles

Revolutionary, scale inhibiting design

- produces ice that has 15% the TDS of the incoming water for optimum dispensing and long life in drinks
- quarantines and regularly expels scale producing dissolved solids to dramatically reduce scale buildup
- increases time between descaling and reduces or eliminates the need for expensive scale treatment
- saves 35% water compared to comparable cubers
- meets 2018 Department of Energy regulations

Durable, attractive ice machine

- regular bearing inspection or replacement is not required
- upgraded, easy-to-read LED operating status and diagnostic display

Designed with sanitation in mind

- Agion® silver-based antimicrobial product protection of key ice and water contact components²
- floatless, sealed design inhibits formation of biofilms
- semi-automatic cleaning and sanitizing system

Warranty

- 3 years parts and labor, 5 years compressor parts

Certifications



Short form specification:

Ice machine to be a Follett® Horizon Elite ice machine model _____ [Insert size/series, condenser type and installation/mounting, from model number guide] capable of producing compressed nugget ice using an efficient, sanitary horizontal evaporator/auger system and delivering ice by a flexible wire reinforced transport tube to □ ice storage bin, □ ice and water dispenser, □ ice and beverage dispenser, □ drop-in dispenser or □ Ice Manager™ diverter valve system, slide-out compressor/condenser/evaporator with utility docking station, front-mounted unit status display, evaporator water inlet at harvest end with automatic flush while producing ice, and semi-automatic cleaning and sanitizing system, plus all the features listed below and mounting/performance-enhancing accessories checked:

Horizon Elite self-contained 1010, 1410 series ice machine					
For use with ¹	Install/mount	Condenser	V/Hz/Ph	1010 series	1410 series
ice storage bin	top mount	air	220/60/1	HCC1010ABT†	HCC1410ABT†
			230/50/1	HCE1010ABT	HCE1410ABT
		water	220/60/1	HCC1010WBT	HCC1410WBT
	230/50/1		HCE1010WBT	HCE1410WBT	
	RIDE	air	220/60/1	HCC1010ABS†	HCC1410ABS†
			230/50/1	HCE1010ABS	HCE1410ABS
water		220/60/1	HCC1010WBS	HCC1410WBS	
		230/50/1	HCE1010WBS	HCE1410WBS	
Follett Vision™ dispenser	RIDE	air	220/60/1	HCC1010AVS†	HCC1410AVS†
			230/50/1	HCE1010AVS	HCE1410AVS
	water	220/60/1	HCC1010WVS	HCC1410WVS	
		230/50/1	HCE1010WVS	HCE1410WVS	
ice and beverage dispenser (by others)	top mount ²	air	220/60/1	HCC1010AHT†	HCC1410AHT†
			230/50/1	HCE1010AHT	HCE1410AHT
		water	220/60/1	HCC1010WHT	HCC1410WHT
	230/50/1		HCE1010WHT	HCE1410WHT	
	RIDE	air	220/60/1	HCC1010AHS†	HCC1410AHS†
			230/50/1	HCE1010AHS	HCE1410AHS
water		220/60/1	HCC1010WHS	HCC1410WHS	
	230/50/1	HCE1010WHS	HCE1410WHS		
drop-in dispenser (by others)	RIDE	air	220/60/1	HCC1010AJS†	HCC1410AJS†
			230/50/1	HCE1010AJS	HCE1410AJS
	water	220/60/1	HCC1010WJS	HCC1410WJS	
		230/50/1	HCE1010WJS	HCE1410WJS	
Ice Manager diverter valve system	RIDE	air	220/60/1	HCC1010AMS†	HCC1410AMS†
		water	220/60/1	HCC1010WMS	HCC1410WMS

† ENERGY STAR® certified
¹ Ordered separately
² Requires Harmony™ top kit (see page 4 for part number)
NOTE: For Micro Chewblet ice, replace second character (C) with an M e.g. HMC1010ABT

Job

Item

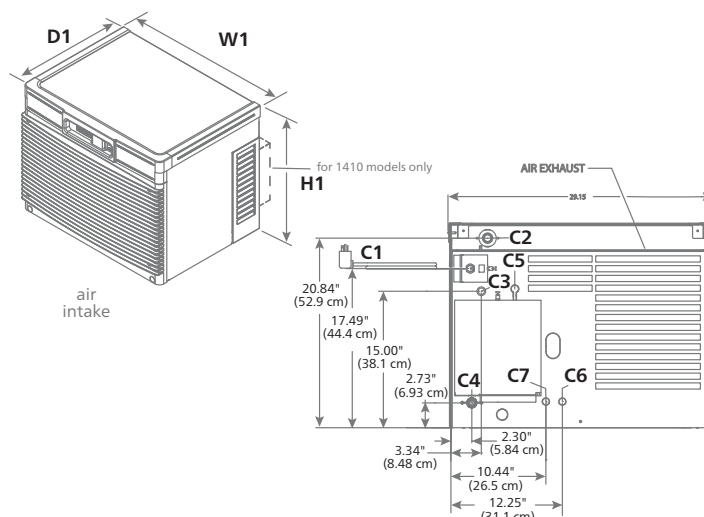
¹ Independent third party studies. Contact Follett for details.

² Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice.

Accessories

- Harmony conversion top kit for ice and beverage dispensers (listed on page 4)
- Water filter kit (item# 00978957– see form# 9905)
 - ___ ea. extra primary water filter cartridge
 - ___ ea. extra pre-filter cartridge
- Carbonless water filter kit (item# 01050442 – see form# 6380)
- Wall mount bracket (item# 01085455)
- Ice machine stand, height-adjustable (item# 01085463)
- Longer ice transport tube (10' / 3 m is standard) – Specify length: ___ ft/m in 5' / 1.5 m increments (item# 0017896)
- SafeCLEAN Plus™ environmentally responsible ice machine cleaner/sanitizer (item# 01050863)
- SaniSponge™, 24 sanitary sponges (item# 01075431)
- Timer to control one or two 1010 and 1410 ice machines (item# 00967265)

Dimensional drawing

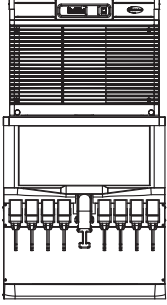
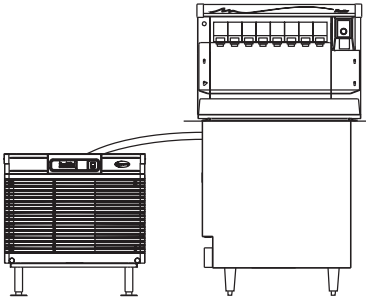
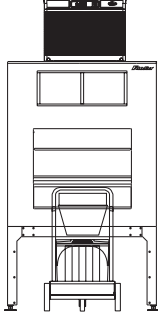
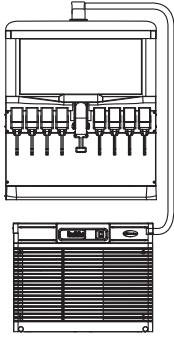
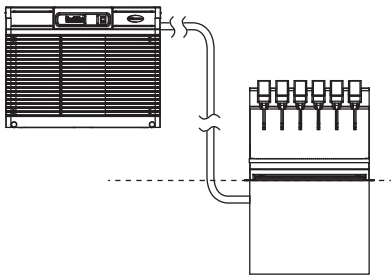
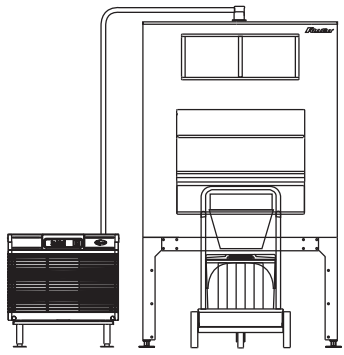


Specification

	Horizon Elite 1010 series	Horizon Elite 1410 series
W1 Width	29.15" (74.0 cm)	29.15" (74.0 cm)
D1 Depth	23.25" (59.1 cm)	25.15" (63.9 cm)
H1 Height	22.15" (56.3 cm)	22.15" (56.3 cm)
Clearance	top, left and right – 1.00" (2.54 cm), rear 2.00" (5.08 cm)	top, left and right – 1.00" (2.54 cm)
Electrical 220 V/60/1 – HCC models	C1 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 6-15 plug.	C1 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord, NEMA 6-20 plug.
Electrical 230 V/50/1 – HCE models	C1 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord only, no plug.	C1 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord only, no plug.
C2 Ice transport tube	see page 7 for details	see page 7 for details
C3 Water inlet	3/8" OD push-in water inlet – internal connection	3/8" OD push-in water inlet – internal connection
C4 Drain	3/4" MPT	3/4" MPT
C5 Ice bin signal cord	for Vision applications only	for Vision applications only
Water-cooled ice machine connections	C6 – 1/4" FPT condenser inlet, C7 – 1/4" FPT condenser outlet	C6 – 1/4" FPT condenser inlet, C7 – 1/4" FPT condenser outlet
Air temperature	50 - 100 F (10 - 38 C)	50 - 100 F (10 - 38 C)
Water temperature	45 - 90 F (7 - 32 C)	45 - 90 F (7 - 32 C)
Potable water pressure	10 - 70 psi (69 - 483 kPa)	10 - 70 psi (69 - 483 kPa)
Condenser water pressure	30 - 150 psi (207-1034 kPa)	30 - 150 psi (207-1034 kPa)
Ice production	see ice production charts on page 8	see ice production charts on page 8
Energy consumption 90 F (32 C) air, 70 F (21 C) water	air-cooled models – 4.80 kWh, water-cooled models – 4.20 kWh per 100 lb (45.4 kg) ice	air-cooled models – 4.84 kWh, water-cooled models – 3.80 kWh per 100 lb (45.4 kg) ice
Heat rejection	air-cooled models – 11,300 BTU/hr, water-cooled models – 12,800 BTU/hr	air-cooled models – 16,000 BTU/hr, water-cooled models – 16,400 BTU/hr
Water consumption	12.0 gal (45 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards) 12.4 gal (46.9 L) at low TDS flush setting	12.0 gal (45 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards) 12.3 gal (46.5 L) at low TDS flush setting
Water flow requirement for water-cooled models	1 gallon per minute	1 gallon per minute
Approximate ship weight	275 lb (124 kg)	305 lb (138 kg)
NOTE: For indoor use only		

1 – Locating the ice machine

Horizon Elite self-contained Chewblet ice machines allow top-mounting or mounting in a base cabinet, on a wall or on a floor stand up to 75' (22.8 m) from the dispenser or ice bin with RIDE technology. In-cabinet mounting (RIDE applications) require special attention to service access, unit ventilation and ice tube runs (see pages 4-7).

<p>Top mounting – ice and beverage dispensers (by others)</p>	<p>RIDE model – Follett low-profile Vision ice and beverage dispensers</p>	<p>Top mount on Follett ice storage bins</p>
		
<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Dispenser must be compatible with nugget ice. See page 4 for compatible ice and beverage dispenser models and top kit numbers. 2. Verify ceiling or soffit height to ensure sufficient top clearance. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See form# B300 for bin sizing. 2. Verify ceiling or soffit height to ensure top clearance. 3. Locate floor sink or grate and drains in front of storage bin. 4. Do not position bin drain lines to block Ice•Device™ bin cart.
<p>RIDE model – ice and beverage dispensers (by others)</p>	<p>RIDE model – drop-in beverage dispensers (by others)</p>	<p>RIDE model – Follett ice storage bins</p>
		
<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Dispenser must be compatible with nugget ice. Compatible dispensers include Coca-Cola Freestyle 9000, Cornelius DB/ID/DF150/175, Lancer 4500-22N, FS-16N, FS-22N and FS-44N, Servend MD150/175/200/250, SV175/200/250, MDH-402 and Follett Symphony Plus™ 110CM, as well as dispensers listed on page 4. 2. Top kit MSF30SC required with Coca-Cola Freestyle 7000. Adapter 0002832 must also be ordered from Coca-Cola. 3. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323, and Lancer 2200, 2300, 23300. 2. Require 12.00" (30.5 cm) of access space for installation on transport tube side. 3. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See form# B300 for bin sizing. 2. Locate floor sink or grate and drains in front of storage bin. 3. Do not position bin drain lines to block Ice•Device bin cart.

1 – Locating the ice machine (continued)

Top mounting – compatible ice and beverage dispensers ¹					
Manufacturer	Model Number	Width in (cm)	Depth ² in (cm)	Height ³ in (cm)	Harmony top kit – specify "F" for front facing, or "B" for backward facing units
					1010 and 1410 series
Lancer dispensers	4500-30N	30.00 (76.2)	30.50 (77.5)	36.50 (92.7)	H30L30-F
	FS-30N	30.00 (76.2)	30.50 (77.5)	42.13 (107.0)	H30L30-F
	Sensation	30.00 (76.2)	31.00 (78.7)	38.25 (97.2)	H30L30-STP
	Touchpoint	32.50 (82.6)	33.70 (85.6)	40.00 (101.6)	H30L30-STP
Cornelius dispensers	DB/ED/DF 200 series	30.00 (76.2)	30.00 (76.2)	34.38 (87.3)	H30C30-F
	DB/ED/DF 250 series	30.00 (76.2)	30.00 (76.2)	38.38 (97.5)	H30C30-F
	DB/ED/DF 300 series	44.0 (111.8)	30.00 (76.2)	34.00 (86.4)	H30C44-(F or B)
	FlavorFusion / Overload	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-FF
	IDC215	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-IDC
	IDC255	30.00 (76.2)	30.70 (78.0)	36.38 (92.4)	H30C30-F-IDC
Servend dispensers	MDH-302	42.80 (108.7)	31.00 (78.7)	32.38 (82.2)	H30S44-(F or B)
Coca-Cola dispensers	Freestyle 7000	30.10 (76.5)	33.11 (84.1)	47.00 (119.38)	H30F30-F ⁴

¹ All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except for Coca-Cola Freestyle 7000, see page 4 for details.

² Requires minimum 1.00" (2.54 cm) clearance between back of dispenser and wall.

³ Net height after installation of top kit (excluding height of ice machine).

⁴ Adapter must also be ordered from Coca-Cola (item# 0002832).

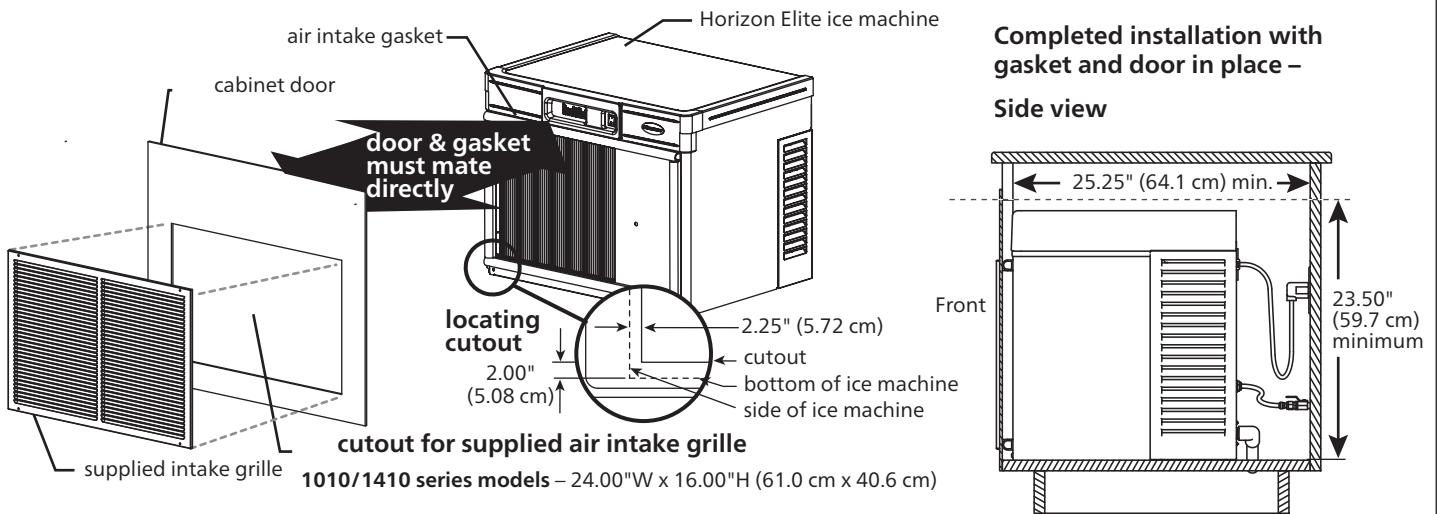
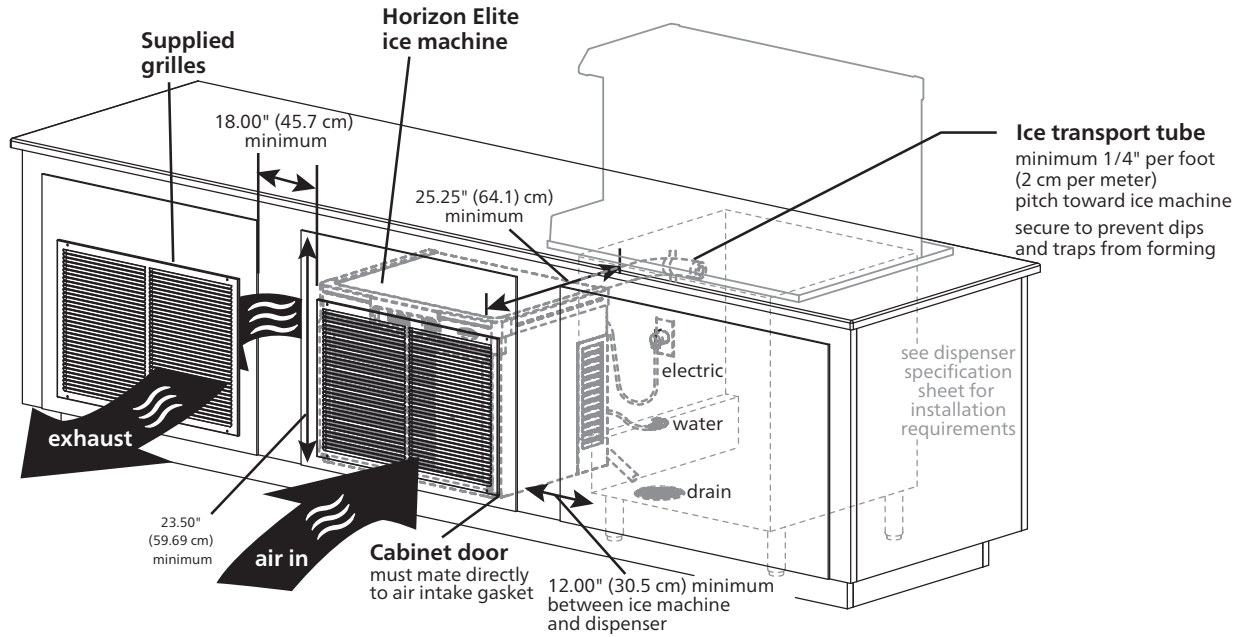
2 – Undercounter/in-cabinet mounting

Cabinet details	
<p>Important specifier notes</p> <ol style="list-style-type: none"> 1. Cabinet door opening must meet minimum size requirements shown and be free of obstructions to allow ice machine to slide out (no lip or utilities to block removal). 2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom. 3. No counter supports, electric or plumbing can run in front of the ice machine. 	<p>Cabinet door opening 1010/1410 series models require 1.00" (2.54 cm) all around, 31.00"W x 23.5"H (78.7 cm x 59.69 cm) minimum</p> <p>slides out</p> <p>Cabinet base must be flat and free of obstructions (no lip or utilities to block removal)</p>

3 – Undercounter/in-cabinet mounting and ventilation

Using Follett supplied grilles

Horizon Elite ice machines can be installed undercounter/in-cabinet to fill bins or dispensers using RIDE technology. Care must be taken to ensure proper cabinet venting to avoid recirculation of hot air. Improper venting can cause ice machine outages.



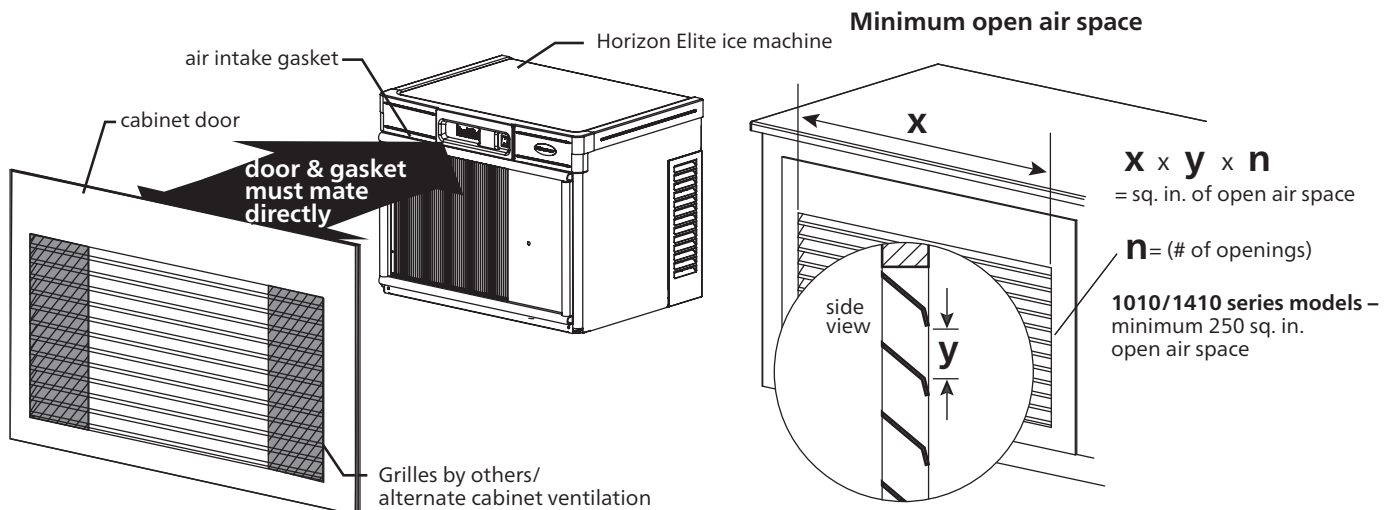
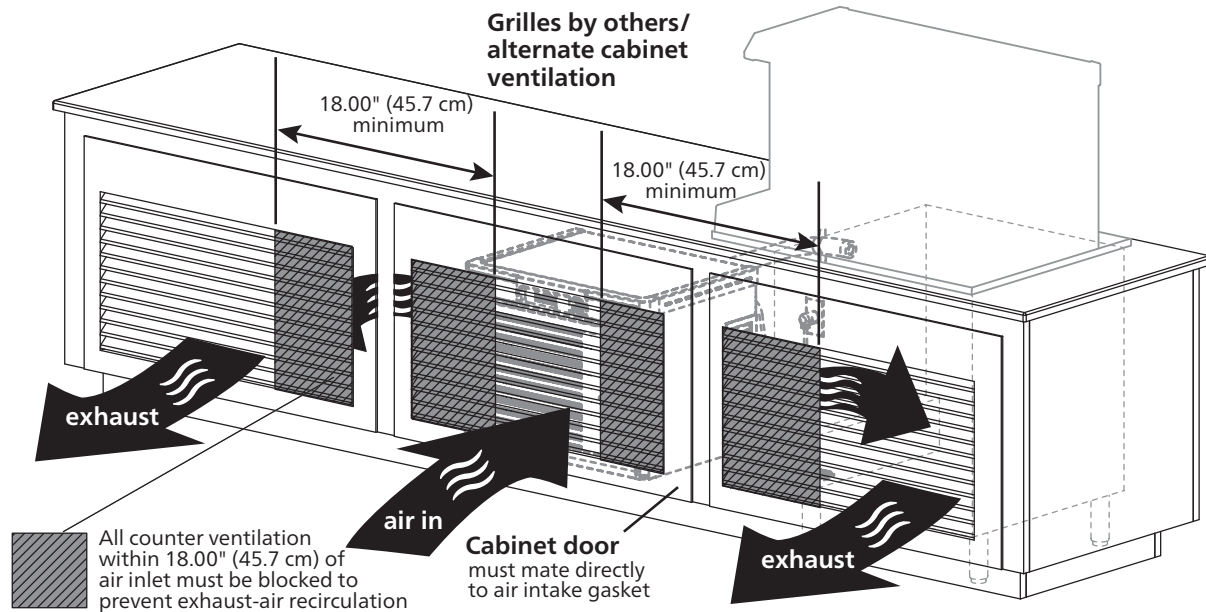
Important specifier notes for using Follett supplied grilles:

1. The supplied exhaust grille must be located at least 18.00" (45.7 cm) from the supplied air intake grille (exhaust air must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Cabinet door must mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 23.50" (59.7 cm) high by 25.25" (64.1 cm) deep.
6. Cutout for supplied grilles must meet minimum size requirements shown above.
7. Utilities should be conveniently located as shown.

3 – Undercounter/in-cabinet mounting and ventilation (continued)

Using grilles by others/alternate cabinet ventilation

Cabinets with ventilation or louvers other than those provided require special consideration to provide proper ventilation. Recirculation of hot air will reduce ice machine performance and can cause ice machine outages.

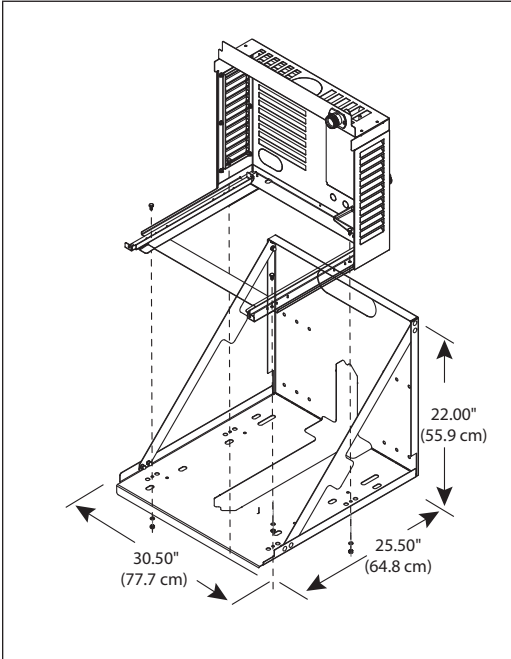


Important specifier notes for using grilles supplied by others/alternate cabinet ventilation:

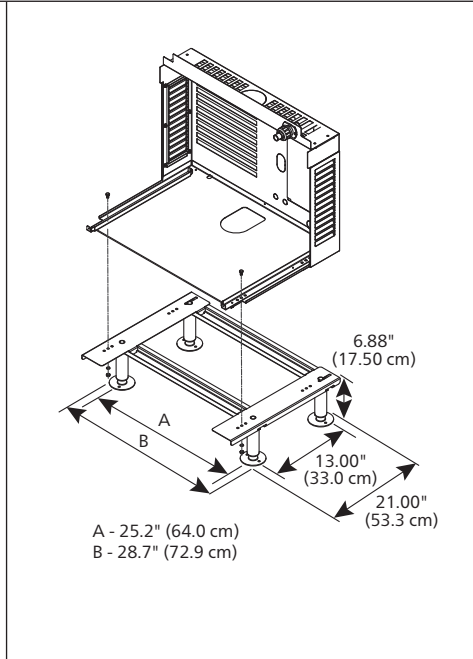
1. Exhaust must be at least 18.00" (45.7 cm) from air intake (exhaust air must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Ducting must be provided if cabinet door does not mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 23.50" (59.7 cm) high by 25.25" (64.1 cm) deep.
6. Grilles by others must meet minimum requirements for open air space shown above.
7. Utilities should be conveniently located as shown.

4 – Horizon Elite ice machine mounting accessories

Optional wall mount bracket



Optional machine stand

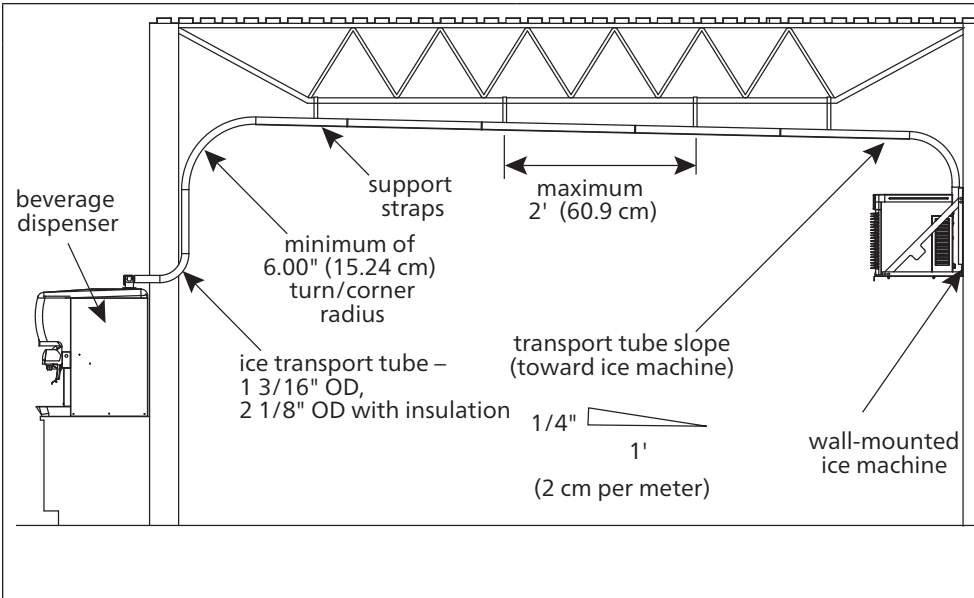


Important specifier notes:

1. For secure wall mounting, specify optional wall mount bracket.
2. Wall and fasteners must support the weight of the ice machine, bracket, supply water and ice. Use of a backing board may be required with hollow wall construction.
3. Machine stand mounting adds 6.88" (17.48 cm) to height of ice machine.
4. No dips in tube routing allowed.
5. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.

5 – Horizon Elite ice tube runs - specifier guidelines

Long tube runs for RIDE remote ice delivery equipment



Important specifier notes:

1. 75' (22.8 m) maximum ice transport tube run.
2. Tubing routing bends must have a 6.00" (15.24 cm) radius or larger.
3. If not supported from underneath, secure insulated ice transport tube at least every 2' (60.9 cm) to prevent dips or traps.
4. Relative humidity levels above 80% in areas where the ice machine or ice transport tube is located may produce excessive condensation that will cause water damage.
5. Contact factory for recommendations on running tubing through a decorative soffit or chase.

Ice production – Horizon Elite 1010 series, air-cooled

Inlet water temperature F (C)	Ambient air temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1160 (526)	1061 (481)	962 (436)	825 (374)	688 (312)	
60 (16)	1093 (496)	1001 (454)	909 (412)	795 (361)	681 (309)	
70 (21)	1026 (465)	941 (427)	857 (389)	765 (347)	674 (306)	
80 (27)	971 (440)	893 (405)	815 (370)	730 (331)	644 (292)	
90 (32)	917 (416)	941 (427)	773 (350)	694 (315)	614 (279)	

Ice production – Horizon Elite 1410 series, air-cooled

Inlet water temperature F (C)	Ambient air temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1593 (723)	1466 (665)	1339 (607)	1230 (558)	1121 (508)	
60 (16)	1518 (689)	1396 (633)	1275 (579)	1163 (528)	1052 (478)	
70 (21)	1442 (654)	1327 (602)	1211 (549)	1097 (498)	982 (446)	
80 (27)	1394 (632)	1272 (577)	1150 (522)	1050 (477)	950 (431)	
90 (32)	1345 (610)	1327 (602)	1089 (494)	1004 (456)	918 (417)	

Ice production – Horizon Elite 1010 series, water-cooled

Potable water temperature F (C)	Condenser water temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1096 (498)	1043 (473)	1001 (454)	947 (430)	892 (405)	
60 (16)	1006 (457)	970 (440)	938 (426)	888 (403)	839 (381)	
70 (21)	917 (416)	898 (408)	874 (396)	830 (377)	786 (357)	
80 (27)	874 (397)	826 (375)	826 (375)	787 (357)	749 (340)	
90 (32)	831 (377)	778 (353)	778 (353)	745 (338)	712 (323)	

Ice production – Horizon Elite 1410 series, water-cooled

Potable water temperature F (C)	Condenser water temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1436 (652)	1411 (641)	1385 (607)	1370 (622)	1354 (615)	
60 (16)	1417 (643)	1367 (633)	1318 (621)	1307 (593)	1296 (588)	
70 (21)	1397 (634)	1324 (602)	1251 (568)	1245 (565)	1238 (562)	
80 (27)	1318 (598)	1253 (577)	1189 (540)	1170 (531)	1151 (522)	
90 (32)	1238 (562)	1183 (602)	1127 (512)	1096 (497)	1064 (483)	



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Agion is a registered trademark of Sciescent LLC.

Harmony, Horizon Elite, Ice•DevIce, Ice Manager, Micro Chewblet, SafeCLEAN, SaniSponge, Symphony Plus, and Vision are trademarks of Follett Corporation.

Chewblet, Follett and RIDE are registered trademarks of Follett Corporation, registered in the US.

Follett reserves the right to change specifications at any time without obligation. Certifications may vary depending on country of origin.

Self-contained 1010, 1410 series ice machine



SPECIFICATION SHEET

ITEM # 380AB

ITEM DESCRIPTION: ICE MACHINE WITH RIDE SYSTEM (AIR-COOLED)

MANUFACTURER: FOLLETT MODEL #HMC1410ABS

ELECTRICAL SPECIFICATIONS:

VOLT:	208
PH:	1
KW:	
AMP:	14
HP:	
NEMA RATING:	16-20P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	1/2"
FW2:	
IW:	3/4"
ROUGH-IN:	P-23

REMARKS:

SELF-CONTAINED UNIT - MOUNTED TO WALL - ORDER WITH #00997098 BRACKET - PROVIDED WITH 6 FT CORD

ISSUE DATE:

3/8/2021

ITEM # 380AB



Horizon Elite™

self-contained 1010, 1410 series Chewblet® ice machine

Short form specification:

Ice machine to be a Follett® Horizon Elite ice machine model _____ [Insert size/series, condenser type and installation/mounting, from model number guide] capable of producing compressed nugget ice using an efficient, sanitary horizontal evaporator/auger system and delivering ice by a flexible wire reinforced transport tube to □ ice storage bin, □ ice and water dispenser, □ ice and beverage dispenser, □ drop-in dispenser or □ Ice Manager™ diverter valve system, slide-out compressor/condenser/evaporator with utility docking station, front-mounted unit status display, evaporator water inlet at harvest end with automatic flush while producing ice, and semi-automatic cleaning and sanitizing system, plus all the features listed below and mounting/performance-enhancing accessories checked:

Features

Horizon Elite

- 1010 series - up to 1061 pounds (482 kg) in 24 hours
- 1410 series - up to 1466 pounds (665 kg) in 24 hours
- automatically transport ice through a tube with RIDE® technology from up to 75' (22.8 m) away
- chewable, compressed nugget ice is preferred over cubes¹
- Chewblet ice dispenses reliably from ice and beverage dispensers
- available with approximately 1.00" (2.54 cm) long standard Chewblet ice or optional 3/8" (0.95 cm) long Micro Chewblet™ ice
- environmentally responsible R404a refrigerant with zero ozone depletion potential
- quiet production without noisy harvest cycles

Revolutionary, scale inhibiting design

- produces ice that has 15% the TDS of the incoming water for optimum dispensing and long life in drinks
- quarantines and regularly expels scale producing dissolved solids to dramatically reduce scale buildup
- increases time between descaling and reduces or eliminates the need for expensive scale treatment
- saves 35% water compared to comparable cubers
- meets 2018 Department of Energy regulations

Durable, attractive ice machine

- regular bearing inspection or replacement is not required
- upgraded, easy-to-read LED operating status and diagnostic display

Designed with sanitation in mind

- Agion® silver-based antimicrobial product protection of key ice and water contact components²
- floatless, sealed design inhibits formation of biofilms
- semi-automatic cleaning and sanitizing system

Warranty

- 3 years parts and labor, 5 years compressor parts

Certifications



Horizon Elite self-contained 1010, 1410 series ice machine						
For use with ¹	Install/mount	Condenser	V/Hz/Ph	1010 series	1410 series	
ice storage bin	top mount	air	220/60/1	HCC1010ABT†	HCC1410ABT†	
			230/50/1	HCE1010ABT	HCE1410ABT	
		water	220/60/1	HCC1010WBT	HCC1410WBT	
			230/50/1	HCE1010WBT	HCE1410WBT	
	RIDE	air	220/60/1	HCC1010ABS†	HCC1410ABS†	
			230/50/1	HCE1010ABS	HCE1410ABS	
water		220/60/1	HCC1010WBS	HCC1410WBS		
		230/50/1	HCE1010WBS	HCE1410WBS		
Follett Vision™ dispenser	RIDE	air	220/60/1	HCC1010AVS†	HCC1410AVS†	
			230/50/1	HCE1010AVS	HCE1410AVS	
		water	220/60/1	HCC1010WVS	HCC1410WVS	
			230/50/1	HCE1010WVS	HCE1410WVS	
	ice and beverage dispenser (by others)	top mount ²	air	220/60/1	HCC1010AHT†	HCC1410AHT†
				230/50/1	HCE1010AHT	HCE1410AHT
water			220/60/1	HCC1010WHT	HCC1410WHT	
			230/50/1	HCE1010WHT	HCE1410WHT	
RIDE		air	220/60/1	HCC1010AHS†	HCC1410AHS†	
			230/50/1	HCE1010AHS	HCE1410AHS	
	water	220/60/1	HCC1010WHS	HCC1410WHS		
		230/50/1	HCE1010WHS	HCE1410WHS		
drop-in dispenser (by others)	RIDE	air	220/60/1	HCC1010AJS†	HCC1410AJS†	
			230/50/1	HCE1010AJS	HCE1410AJS	
		water	220/60/1	HCC1010WJS	HCC1410WJS	
			230/50/1	HCE1010WJS	HCE1410WJS	
Ice Manager diverter valve system	RIDE	air	220/60/1	HCC1010AMS†	HCC1410AMS†	
		water	220/60/1	HCC1010WMS	HCC1410WMS	

† ENERGY STAR® certified
¹ Ordered separately
² Requires Harmony™ top kit (see page 4 for part number)
NOTE: For Micro Chewblet ice, replace second character (C) with an M e.g. HMC1010ABT

Job

Item

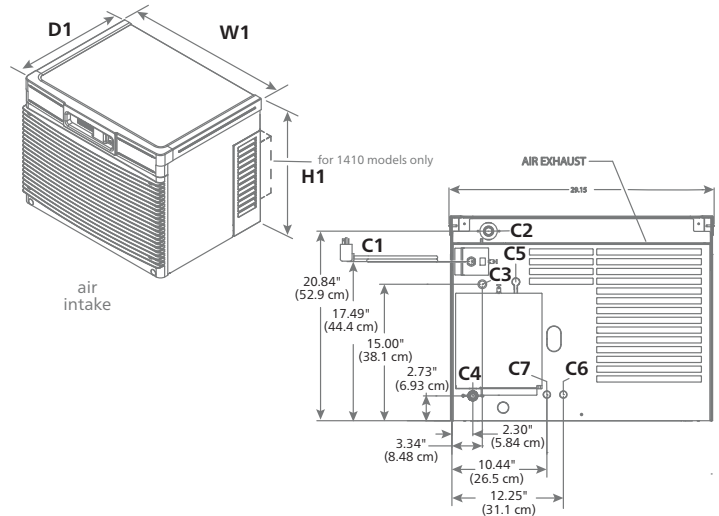
¹ Independent third party studies. Contact Follett for details.

² Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice.

Accessories

- Harmony conversion top kit for ice and beverage dispensers (listed on page 4)
- Water filter kit (item# 00978957– see form# 9905)
 - ___ ea. extra primary water filter cartridge
 - ___ ea. extra pre-filter cartridge
- Carbonless water filter kit (item# 01050442 – see form# 6380)
- Wall mount bracket (item# 01085455)
- Ice machine stand, height-adjustable (item# 01085463)
- Longer ice transport tube (10’/3 m is standard) – Specify length: ___ ft/m in 5’/1.5 m increments (item# 0017896)
- SafeCLEAN Plus™ environmentally responsible ice machine cleaner/sanitizer (item# 01050863)
- SaniSponge™, 24 sanitary sponges (item# 01075431)
- Timer to control one or two 1010 and 1410 ice machines (item# 00967265)

Dimensional drawing

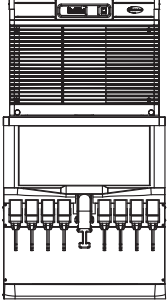
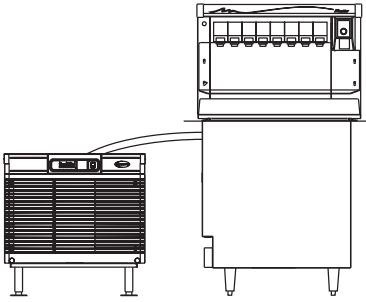
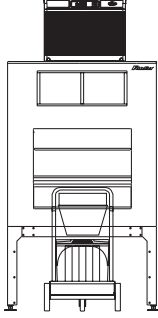
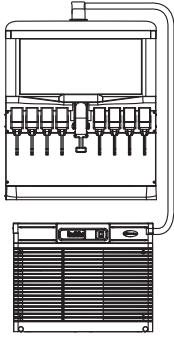
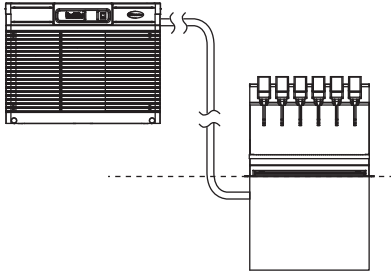
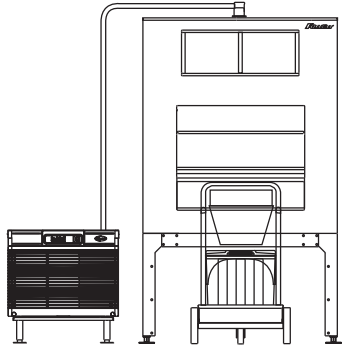


Specification

	Horizon Elite 1010 series	Horizon Elite 1410 series
W1 Width	29.15" (74.0 cm)	29.15" (74.0 cm)
D1 Depth	23.25" (59.1 cm)	25.15" (63.9 cm)
H1 Height	22.15" (56.3 cm)	22.15" (56.3 cm)
Clearance	top, left and right – 1.00" (2.54 cm), rear 2.00" (5.08 cm)	top, left and right – 1.00" (2.54 cm)
Electrical 220 V/60/1 – HCC models	C1 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 6-15 plug.	C1 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord, NEMA 6-20 plug.
Electrical 230 V/50/1 – HCE models	C1 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord only, no plug.	C1 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord only, no plug.
C2 Ice transport tube	see page 7 for details	see page 7 for details
C3 Water inlet	3/8" OD push-in water inlet – internal connection	3/8" OD push-in water inlet – internal connection
C4 Drain	3/4" MPT	3/4" MPT
C5 Ice bin signal cord	for Vision applications only	for Vision applications only
Water-cooled ice machine connections	C6 – 1/4" FPT condenser inlet, C7 – 1/4" FPT condenser outlet	C6 – 1/4" FPT condenser inlet, C7 – 1/4" FPT condenser outlet
Air temperature	50 -100 F (10 - 38 C)	50 -100 F (10 - 38 C)
Water temperature	45 - 90 F (7 - 32 C)	45 - 90 F (7 - 32 C)
Potable water pressure	10 - 70 psi (69 - 483 kPa)	10 - 70 psi (69 - 483 kPa)
Condenser water pressure	30 - 150 psi (207-1034 kPa)	30 - 150 psi (207-1034 kPa)
Ice production	see ice production charts on page 8	see ice production charts on page 8
Energy consumption 90 F (32 C) air, 70 F (21 C) water	air-cooled models – 4.80 kWh, water-cooled models – 4.20 kWh per 100 lb (45.4 kg) ice	air-cooled models – 4.84 kWh, water-cooled models – 3.80 kWh per 100 lb (45.4 kg) ice
Heat rejection	air-cooled models – 11,300 BTU/hr, water-cooled models – 12,800 BTU/hr	air-cooled models – 16,000 BTU/hr, water-cooled models – 16,400 BTU/hr
Water consumption	12.0 gal (45 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards) 12.4 gal (46.9 L) at low TDS flush setting	12.0 gal (45 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards) 12.3 gal (46.5 L) at low TDS flush setting
Water flow requirement for water-cooled models	1 gallon per minute	1 gallon per minute
Approximate ship weight	275 lb (124 kg)	305 lb (138 kg)
NOTE: For indoor use only		

1 – Locating the ice machine

Horizon Elite self-contained Chewblet ice machines allow top-mounting or mounting in a base cabinet, on a wall or on a floor stand up to 75' (22.8 m) from the dispenser or ice bin with RIDE technology. In-cabinet mounting (RIDE applications) require special attention to service access, unit ventilation and ice tube runs (see pages 4-7).

<p>Top mounting – ice and beverage dispensers (by others)</p>	<p>RIDE model – Follett low-profile Vision ice and beverage dispensers</p>	<p>Top mount on Follett ice storage bins</p>
		
<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Dispenser must be compatible with nugget ice. See page 4 for compatible ice and beverage dispenser models and top kit numbers. 2. Verify ceiling or soffit height to ensure sufficient top clearance. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See form# B300 for bin sizing. 2. Verify ceiling or soffit height to ensure top clearance. 3. Locate floor sink or grate and drains in front of storage bin. 4. Do not position bin drain lines to block Ice•Device™ bin cart.
<p>RIDE model – ice and beverage dispensers (by others)</p>	<p>RIDE model – drop-in beverage dispensers (by others)</p>	<p>RIDE model – Follett ice storage bins</p>
		
<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Dispenser must be compatible with nugget ice. Compatible dispensers include Coca-Cola Freestyle 9000, Cornelius DB/ID/DF150/175, Lancer 4500-22N, FS-16N, FS-22N and FS-44N, Servend MD150/175/200/250, SV175/200/250, MDH-402 and Follett Symphony Plus™ 110CM, as well as dispensers listed on page 4. 2. Top kit MSF30SC required with Coca-Cola Freestyle 7000. Adapter 0002832 must also be ordered from Coca-Cola. 3. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323, and Lancer 2200, 2300, 23300. 2. Require 12.00" (30.5 cm) of access space for installation on transport tube side. 3. See page 4-6 for critical clearance and venting requirements. 	<p>Important specifier notes:</p> <ol style="list-style-type: none"> 1. See form# B300 for bin sizing. 2. Locate floor sink or grate and drains in front of storage bin. 3. Do not position bin drain lines to block Ice•Device bin cart.

1 – Locating the ice machine (continued)

Top mounting – compatible ice and beverage dispensers ¹					
Manufacturer	Model Number	Width in (cm)	Depth ² in (cm)	Height ³ in (cm)	Harmony top kit – specify "F" for front facing, or "B" for backward facing units
					1010 and 1410 series
Lancer dispensers	4500-30N	30.00 (76.2)	30.50 (77.5)	36.50 (92.7)	H30L30-F
	FS-30N	30.00 (76.2)	30.50 (77.5)	42.13 (107.0)	H30L30-F
	Sensation	30.00 (76.2)	31.00 (78.7)	38.25 (97.2)	H30L30-STP
	Touchpoint	32.50 (82.6)	33.70 (85.6)	40.00 (101.6)	H30L30-STP
Cornelius dispensers	DB/ED/DF 200 series	30.00 (76.2)	30.00 (76.2)	34.38 (87.3)	H30C30-F
	DB/ED/DF 250 series	30.00 (76.2)	30.00 (76.2)	38.38 (97.5)	H30C30-F
	DB/ED/DF 300 series	44.0 (111.8)	30.00 (76.2)	34.00 (86.4)	H30C44-(F or B)
	FlavorFusion / Overload	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-FF
	IDC215	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-IDC
	IDC255	30.00 (76.2)	30.70 (78.0)	36.38 (92.4)	H30C30-F-IDC
Servend dispensers	MDH-302	42.80 (108.7)	31.00 (78.7)	32.38 (82.2)	H30S44-(F or B)
Coca-Cola dispensers	Freestyle 7000	30.10 (76.5)	33.11 (84.1)	47.00 (119.38)	H30F30-F ⁴

¹ All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except for Coca-Cola Freestyle 7000, see page 4 for details.

² Requires minimum 1.00" (2.54 cm) clearance between back of dispenser and wall.

³ Net height after installation of top kit (excluding height of ice machine).

⁴ Adapter must also be ordered from Coca-Cola (item# 0002832).

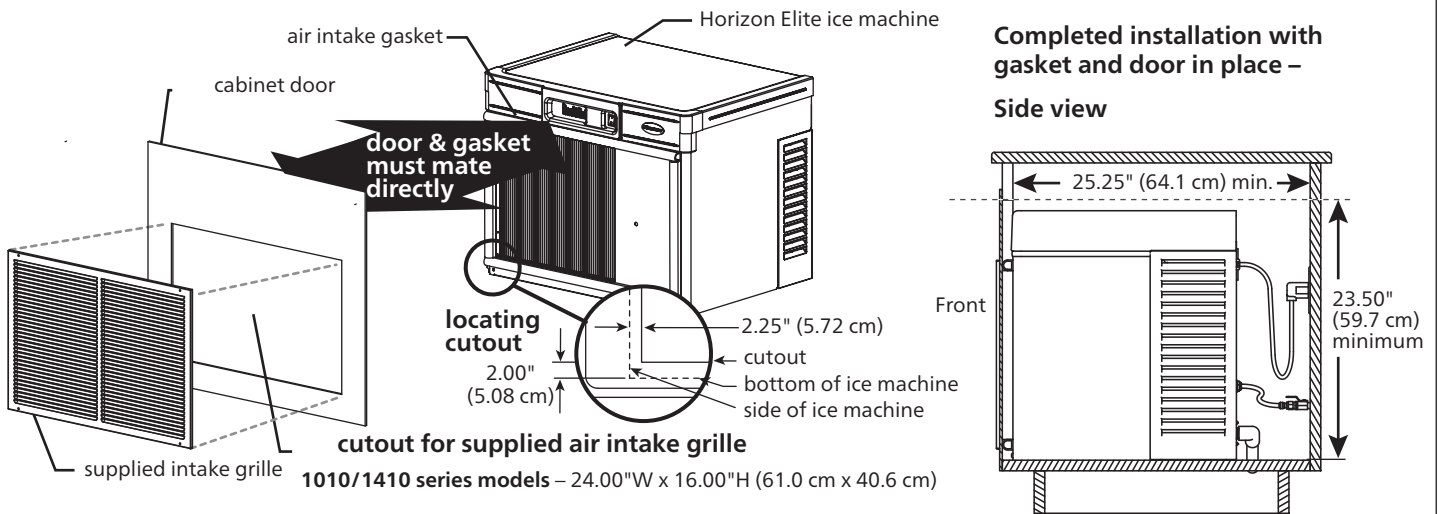
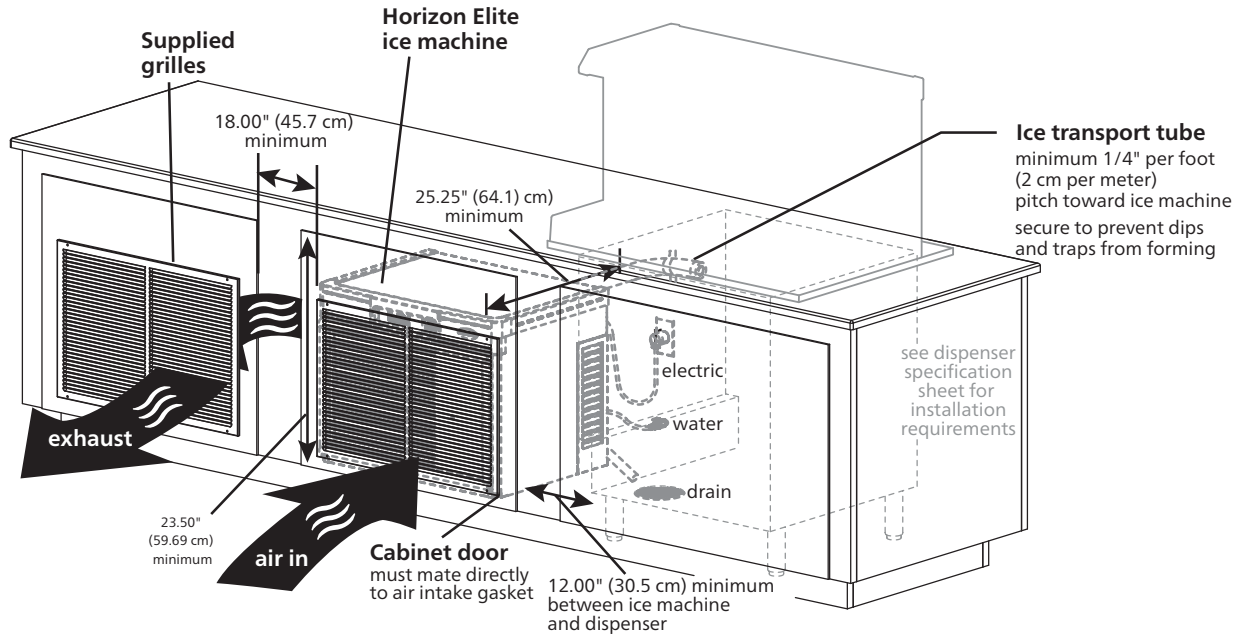
2 – Undercounter/in-cabinet mounting

Cabinet details	
<p>Important specifier notes</p> <ol style="list-style-type: none"> 1. Cabinet door opening must meet minimum size requirements shown and be free of obstructions to allow ice machine to slide out (no lip or utilities to block removal). 2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom. 3. No counter supports, electric or plumbing can run in front of the ice machine. 	<p>Cabinet door opening 1010/1410 series models require 1.00" (2.54 cm) all around, 31.00"W x 23.5"H (78.7 cm x 59.69 cm) minimum</p> <p>slides out</p> <p>Cabinet base must be flat and free of obstructions (no lip or utilities to block removal)</p>

3 – Undercounter/in-cabinet mounting and ventilation

Using Follett supplied grilles

Horizon Elite ice machines can be installed undercounter/in-cabinet to fill bins or dispensers using RIDE technology. Care must be taken to ensure proper cabinet venting to avoid recirculation of hot air. Improper venting can cause ice machine outages.



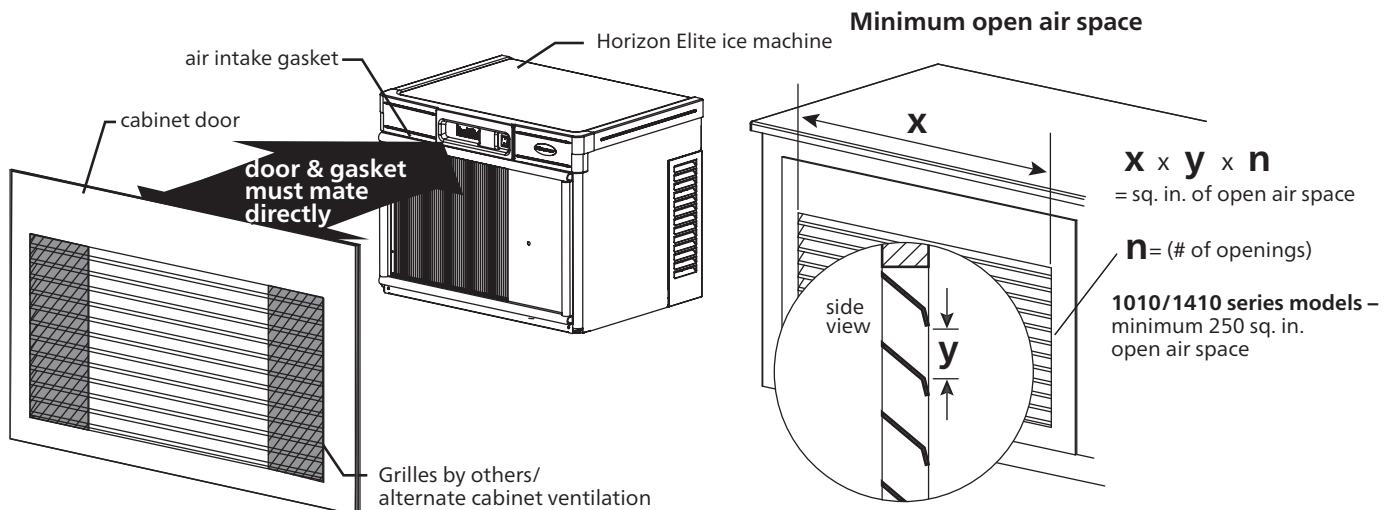
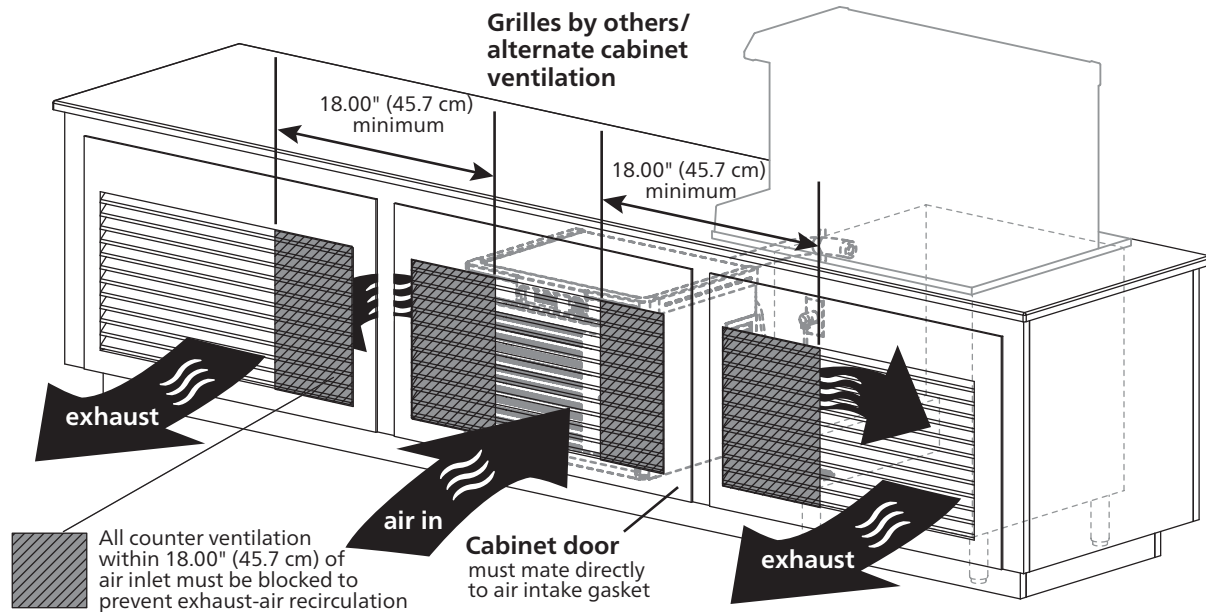
Important specifier notes for using Follett supplied grilles:

1. The supplied exhaust grille must be located at least 18.00" (45.7 cm) from the supplied air intake grille (exhaust air must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Cabinet door must mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 23.50" (59.7 cm) high by 25.25" (64.1 cm) deep.
6. Cutout for supplied grilles must meet minimum size requirements shown above.
7. Utilities should be conveniently located as shown.

3 – Undercounter/in-cabinet mounting and ventilation (continued)

Using grilles by others/alternate cabinet ventilation

Cabinets with ventilation or louvers other than those provided require special consideration to provide proper ventilation. Recirculation of hot air will reduce ice machine performance and can cause ice machine outages.

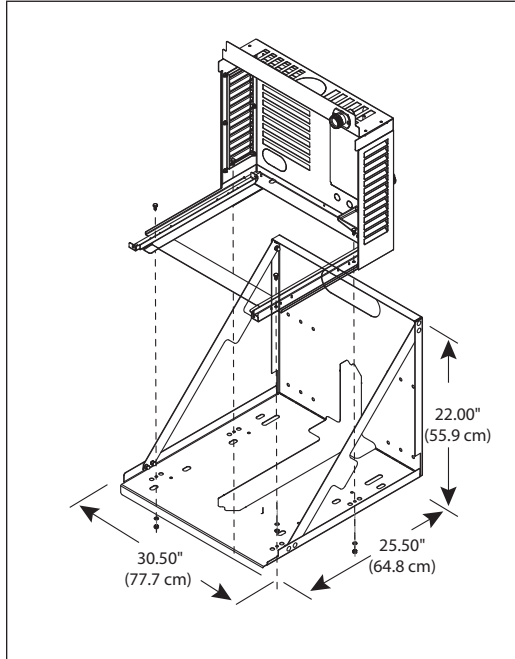


Important specifier notes for using grilles supplied by others/alternate cabinet ventilation:

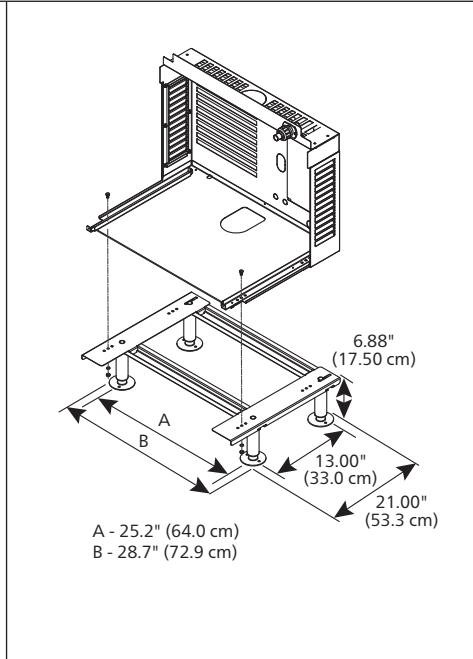
1. Exhaust must be at least 18.00" (45.7 cm) from air intake (exhaust air must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Ducting must be provided if cabinet door does not mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 23.50" (59.7 cm) high by 25.25" (64.1 cm) deep.
6. Grilles by others must meet minimum requirements for open air space shown above.
7. Utilities should be conveniently located as shown.

4 – Horizon Elite ice machine mounting accessories

Optional wall mount bracket



Optional machine stand

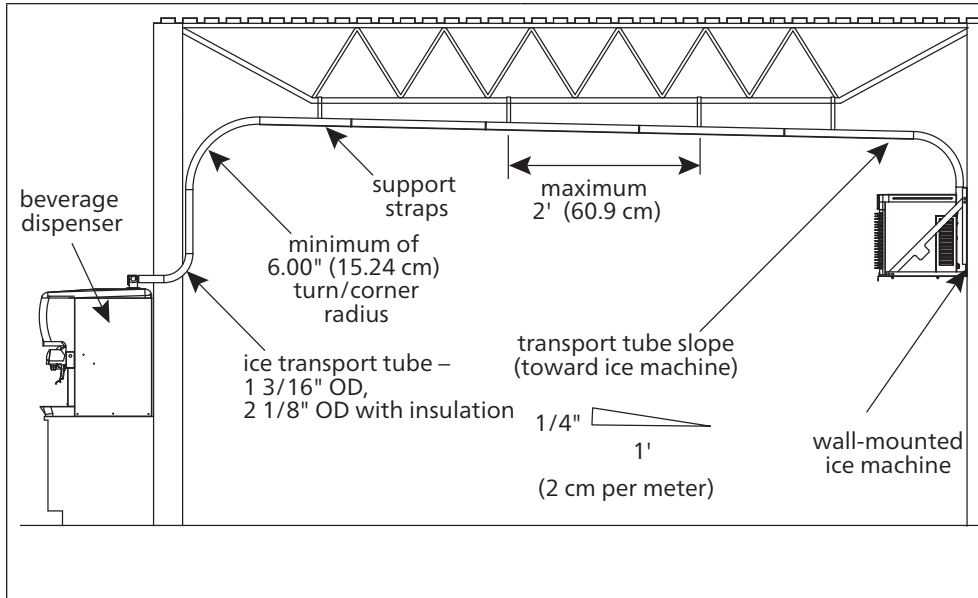


Important specifier notes:

1. For secure wall mounting, specify optional wall mount bracket.
2. Wall and fasteners must support the weight of the ice machine, bracket, supply water and ice. Use of a backing board may be required with hollow wall construction.
3. Machine stand mounting adds 6.88" (17.48 cm) to height of ice machine.
4. No dips in tube routing allowed.
5. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.

5 – Horizon Elite ice tube runs - specifier guidelines

Long tube runs for RIDE remote ice delivery equipment



Important specifier notes:

1. 75' (22.8 m) maximum ice transport tube run.
2. Tubing routing bends must have a 6.00" (15.24 cm) radius or larger.
3. If not supported from underneath, secure insulated ice transport tube at least every 2' (60.9 cm) to prevent dips or traps.
4. Relative humidity levels above 80% in areas where the ice machine or ice transport tube is located may produce excessive condensation that will cause water damage.
5. Contact factory for recommendations on running tubing through a decorative soffit or chase.

Ice production – Horizon Elite 1010 series, air-cooled

Inlet water temperature F (C)	Ambient air temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1160 (526)	1061 (481)	962 (436)	825 (374)	688 (312)	
60 (16)	1093 (496)	1001 (454)	909 (412)	795 (361)	681 (309)	
70 (21)	1026 (465)	941 (427)	857 (389)	765 (347)	674 (306)	
80 (27)	971 (440)	893 (405)	815 (370)	730 (331)	644 (292)	
90 (32)	917 (416)	941 (427)	773 (350)	694 (315)	614 (279)	

Ice production – Horizon Elite 1410 series, air-cooled

Inlet water temperature F (C)	Ambient air temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1593 (723)	1466 (665)	1339 (607)	1230 (558)	1121 (508)	
60 (16)	1518 (689)	1396 (633)	1275 (579)	1163 (528)	1052 (478)	
70 (21)	1442 (654)	1327 (602)	1211 (549)	1097 (498)	982 (446)	
80 (27)	1394 (632)	1272 (577)	1150 (522)	1050 (477)	950 (431)	
90 (32)	1345 (610)	1327 (602)	1089 (494)	1004 (456)	918 (417)	

Ice production – Horizon Elite 1010 series, water-cooled

Potable water temperature F (C)	Condenser water temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1096 (498)	1043 (473)	1001 (454)	947 (430)	892 (405)	
60 (16)	1006 (457)	970 (440)	938 (426)	888 (403)	839 (381)	
70 (21)	917 (416)	898 (408)	874 (396)	830 (377)	786 (357)	
80 (27)	874 (397)	826 (375)	826 (375)	787 (357)	749 (340)	
90 (32)	831 (377)	778 (353)	778 (353)	745 (338)	712 (323)	

Ice production – Horizon Elite 1410 series, water-cooled

Potable water temperature F (C)	Condenser water temperature F (C)					lb/kg production in 24 hr
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 (10)	1436 (652)	1411 (641)	1385 (607)	1370 (622)	1354 (615)	
60 (16)	1417 (643)	1367 (633)	1318 (621)	1307 (593)	1296 (588)	
70 (21)	1397 (634)	1324 (602)	1251 (568)	1245 (565)	1238 (562)	
80 (27)	1318 (598)	1253 (577)	1189 (540)	1170 (531)	1151 (522)	
90 (32)	1238 (562)	1183 (602)	1127 (512)	1096 (497)	1064 (483)	



ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

Agion is a registered trademark of Sciescent LLC.

Harmony, Horizon Elite, Ice•DevIce, Ice Manager, Micro Chewblet, SafeCLEAN, SaniSponge, Symphony Plus, and Vision are trademarks of Follett Corporation.

Chewblet, Follett and RIDE are registered trademarks of Follett Corporation, registered in the US.

Follett reserves the right to change specifications at any time without obligation. Certifications may vary depending on country of origin.

Self-contained 1010, 1410 series ice machine



SPECIFICATION SHEET

ITEM # 384

ITEM DESCRIPTION: 48" ICE BIN

MANUFACTURER: FOLLETT # SG1300S-48

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____ 1"
ROUGH-IN: _____

REMARKS:

ORDER WITH ITEM #380a

ISSUE DATE:
11/21/2018

ITEM # 384

Single door upright ice storage bins with SmartGATE® ice shield

SG Series

Lifetime cabinet and liner warranty!



Model SG1475-60

Polyethylene ice access door assembly

- No sharp corners
- Saves aisle space – only 8" (204 mm) deep
- Removes with only 4 screws, no sealant



Safely loosen congealed ice through SmartGATE ice shield with optional ice paddle accessory. Released ice remains behind SmartGATE ice shield.

Only SmartGATE ice shield positively controls ice flow into access door area for increased safety, reduced spillage.

Ice storage bins with industry-exclusive SmartGATE ice shield. For use with all major commercial icemakers. Complete stainless exterior standard, including stainless back and bottom. All bins include 82 oz plastic ice scoop, 6" (153 mm) stainless steel adjustable legs and corrosion-resistant ABS/poly top† custom-cut for specific icemaker(s).

† All ice storage products include top cut to accommodate specified icemaker. Orders can not be processed without complete manufacturer name and model number. Please specify at time of order. SG1000-36 comes standard with 6" (153 mm) flanged legs and is available only with stainless steel top.

Wide range of sizes to meet varied needs

- Twelve models in widths from 30" to 60" (762 mm to 1524 mm) and capacities from 460 lbs to 1660 lbs (209 kg to 753 kg)

Industry-exclusive inner SmartGATE ice shield delivers more safety, less spillage

- First ice in is first ice out
- Positively controls ice flow into access door area for easy removal with either scoop or shovel
- Allows loosening of congealed ice without lifting gate for increased safety and reduced spillage
- Locks open in 3 positions
- Returns easily to full down position even when bin is full

Durable polyethylene lift doors with PowerHinge™ door hinge

- Doors stay safely open – no door catches
- No sharp corners to injure workers
- Molded-in gasket never needs to be replaced
- Easy one-hand open and close

Polyethylene ice access door assembly

- Withstands heavy abuse
- Eliminates rusting and corrosion

Non-corroding polyethylene liners, top and trim

- Eliminates pitting and staining from released chlorine
- Makes cleaning easy

Other quality construction features

- Heavy-duty welded construction
- Non-CFC foamed-in-place insulation
- Translucent double-wall polyethylene windows

Optional accessories (refer to form# 3435)

- SmartCART™ 75 ice cart with 3 Totes™ ice carriers
- Ice paddle and hanging bracket (item# ABICEPADDL46)
- Plastic shovel (item# ABICSHOVEL)
- San Jamar Saf-T-Ice* Guardian scoop system (item# 00146365)
- Drain pan (required for some Vogt and Howe icemakers; consult factory)
- 6" (153 mm) stainless legs with flanged feet (item# ABSPECLEG3)
- 10" (254 mm) stainless legs (item# 00151647)
- Centered bin partition
- Flexi-Top™ ice bin top system for 48" (1220 mm) and 60" (1524 mm) wide models (refer to form# 4025)

* Saf-T-Ice is a registered trademark of San Jamar, a division of the Coleman Group, Inc. in the United States.

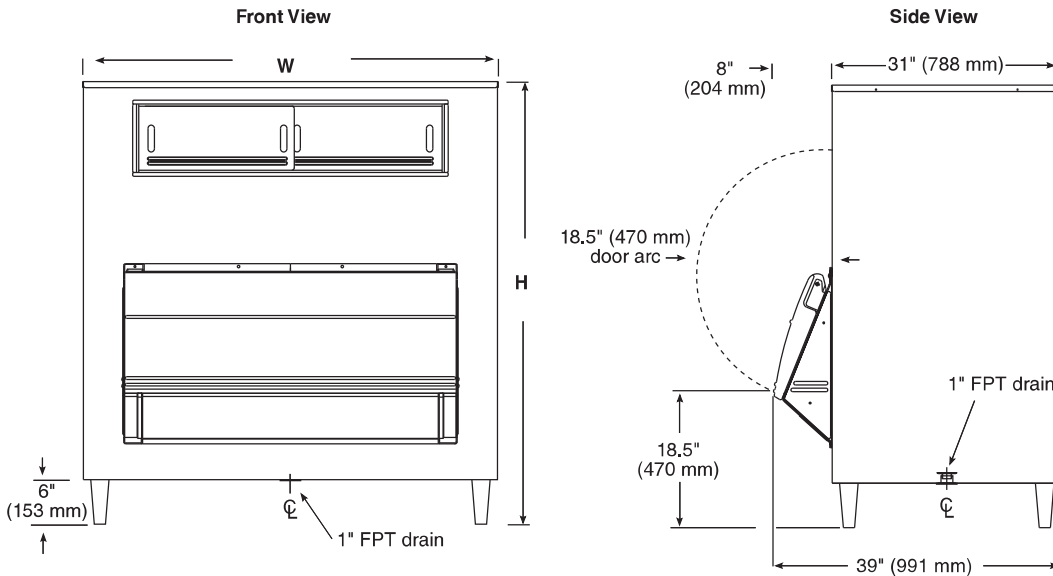
JOB: _____

ITEM: _____



801 Church Lane • Easton, PA 18040, USA
 Toll free (800) 523-9361 • +1 (610) 252-7301
 Fax +1 (610) 250-0696 • www.follettice.com

Strategic - Knoxville



General notes

Follett® recommends installation of a floor drain with grate with all ice storage bins.

Model Number	Cubic Volume cu ft (m)	Max. Bin Capacity lb (kg) ¹	Width (W) in (mm)	Height (H) with Legs in (mm) ²	Req'd Door Access in (mm) ³	Approx. Ship Weight lb (kg) ⁴
SG500S-30	14.8 (0.41)	460 (209)	30 (762)	44.5 (1131)	31 (788)	210 (95)
SG700S-30	21.7 (0.61)	680 (308)	30 (762)	60.0 (1524)	31 (788)	212 (96)
SG1000-36	31.0 (0.88)	1000 (454)	36 (914)	69.5 (1765)	32 (813)	257 (117)
SG860S-48	25.5 (0.72)	860 (390)	48 (1220)	46.5 (1181)	32 (813)	255 (116)
SG1010S-48	31.9 (0.90)	1000 (454)	48 (1220)	56.0 (1423)	32 (813)	268 (122)
SG1175S-48	37.6 (1.06)	1185 (538)	48 (1220)	62.0 (1575)	32 (813)	298 (135)
SG1300S-48	41.9 (1.19)	1320 (599)	48 (1220)	65.0 (1651)	32 (813)	270 (123)
SG1160S-56	37.3 (1.06)	1170 (531)	56 (1423)	56.0 (1423)	32 (813)	296 (134)
SG1350S-56	43.2 (1.22)	1360 (617)	56 (1423)	62.0 (1575)	32 (813)	322 (147)
SG1080S-60	34.3 (0.97)	1080 (490)	60 (1524)	46.5 (1181)	32 (813)	355 (161)
SG1325S-60	42.0 (1.19)	1325 (601)	60 (1524)	56.0 (1423)	32 (813)	320 (146)
SG1475S-60	47.4 (1.34)	1490 (676)	60 (1524)	62.0 (1575)	32 (813)	321 (146)
SG1650S-60	52.8 (1.50)	1660 (753)	60 (1524)	65.0 (1651)	32 (813)	340 (154)

* Standard with 6" (153 mm) flanged legs and available only with stainless steel top. Correctional package not available.

Notes:

- 1 Computed on cubic volume of bin. Does not reflect cart capacity or voids that can occur due to pyramiding.
- 2 Special top required for icemakers weighing more than 1000 lbs (454 kg). Add 2.125" (54 mm) to height. Contact factory.
- 3 Required clearance for installation access through doors (may require removal of door assembly). Door assemblies remove easily (4 screws, no sealant) if required for installation access.
- 4 Add 2" (51 mm) to depth and 10 lbs (4.5 kg) to shipping weight when drain pan accessory used.

Warranty

- The cabinet exterior (including top and trim) and the interior liner will remain free of corrosion for the useful life of the product.
- Doors, inspection windows, ice gates, and all other integral components are covered against defects in material or workmanship for five years from date of installation. Installation date shall not exceed 90 days from date of shipment.
- Ice transport carts, scoops, paddles, shovels, rakes and other accessories are covered against defects in material or workmanship for two years from date of installation. Installation date shall not exceed 90 days from date of shipment.

Specifications Ice storage bin to be Follett model _____ with industry-exclusive SmartGATE ice shield. Cubic capacity to be _____, to hold approximately _____ lbs (kg) of ice. Construction to be welded steel shell and frame. Exterior finish to be stainless steel front, sides, back and bottom. Bin liner to have non-corroding polyethylene walls and stainless steel bottom. Bin insulation to be non-CFC polyurethane foam, bonded to shell and liner for added structural strength. Bin top to be ABS plastic custom-cut for specific icemaker(s) to be used. Lower door assembly to include non-corroding polyethylene snout, polyethylene lift door with PowerHinge door hinge to eliminate gasket and latches, and inner SmartGATE ice shield to positively control ice flow into snout area and reduce spillage. Entire lower door assembly to be easily removable for installation through narrow doors. Upper inspection windows to be of molded double-wall plastic to increase durability and minimize meltage and condensation. Bin to have 6" (153 mm) legs, adjustable to 7.5" (191 mm). Bin drain to be 1" FPT rigid PVC. Bin to be NSF-listed.

SmartCART, PowerHinge and Totes are trademarks of Follett Corporation. Follett and SmartGATE are registered trademarks of Follett Corporation, registered in the US. Follett reserves the right to change specifications at any time without obligation. Certifications may vary depending on country of origin.



SPECIFICATION SHEET

ITEM # 400L

ITEM DESCRIPTION: SINGLE SECTION REACH-IN FREEZER

MANUFACTURER: TRAUlsen MODEL #RLT132WUT-FHS

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT:	_____	115	_____
PH:	_____	1	_____
KW:	_____	1.1	_____
AMP:	_____	9.4	_____
HP:	_____		_____
NEMA RATING:	_____	5-15P	_____

HW:	_____
CW:	_____
FW:	_____
FW2:	_____
IW:	_____
TW:	_____
GAS SIZE:	_____
GAS AFF:	_____
GAS MBTU:	_____

REMARKS:

HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4-7/16" CASTERS

ISSUE DATE:

9/30/2020

ITEM # 400L

Project	Quantity	Item #
Model Specified:		CSI Section 11400

"W-Width" Reach-In Freezer Models/
Self-Contained



INTELA-TRAUL®
Equipped!



Model RLT232WUT-FHS



Stainless Exterior
& Interior

One & Two Section Models, 32" Deep

1-Section Full Length Door Model

RLT132WUT-FHS*

2-Section Full Length Door Model

RLT232WUT-FHS*

The R Series represent Traulsen's Top-of-the-Line product offering. The "W-Width" reach-in freezer models are all designed to offer maximum interior storage capacity. Each is supplied standard with such high quality features as balanced refrigeration systems, microprocessor controls, communications ability and stainless steel exteriors. Additionally, they offer the widest range of optional accessories to choose from, and can be specified for use with many different applications, including: Foodservice, Correctional, Institutional, Export, etc.

Standard Product Features

- R-Series: Stainless Steel Exterior & Interior
- INTELA-TRAUL® Microprocessor Control System
- Balanced, Self-Contained Refrigeration System Using R-404A
- Condenser Filter
- -10°F Capable
- Scroll Blower Type Evaporator Fan
- Biased Return Air Duct
- Full Length Stainless Steel Doors With Locks
- Self-Closing Doors With Stay Open Feature At 120 Degrees
- Guaranteed For Life Cam-Lift Hinges
- Guaranteed For Life Horizontal Work Flow Door Handle
- Automatically Activated Incandescent Lights
- Stainless Steel Breaker Caps
- Adjustable Plated Shelves, Supported On Shelf Pins (installed at the factory)
- Dunnage Rack (excludes RL132W-ZCF01, RL232W-ZCF01)
- Automatic Non-Electric Condensate Evaporator
- Vented Gasket
- Gasket-Protecting Metal Door Liner
- Controllable Anti-Condensate Door Perimeter Heaters
- Thermostatic Expansion Valve Metering Device
- Stainless Steel Back & One-Piece Louver Assembly
- Foot Pedal
- 9' Cord & Plug Attached
- One Year Parts And Labor Warranty
- Two Year Control Warranty (parts and labor)
- Five Year Compressor Warranty

Options & Accessories

- Stainless Steel Finished Back With Rear Louvers
- Dunnage Rack
- Support Options Include Various Heights And Also Include Legs



* Noted models are ENERGY STAR® listed. Please refer to www.energystar.gov to view the most up-to-date product listing and performance data.

Approval: _____



Listed by Underwriters Laboratories Inc., to U.S. and Canadian safety standards and Listed by NSF International.

TRAULSEN
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302



Project	Quantity	Item #
Model Specified:		CSI Section 11400

Specifications

Construction, Hardware and Insulation

Cabinet exterior front, one piece sides, louver assembly and doors are constructed of 20 gauge stainless steel with #4 finish. Cabinet interior and door liners are constructed of stainless steel. The exterior cabinet top, back and bottom are constructed of heavy gauge aluminized steel. A set of four (4) adjustable 6" high casters are included.

Doors are equipped with a gasket protecting metal door pan, removable plug cylinder locks and guaranteed for life cam-lift, gravity action, self-closing metal, glide hinges with stay open feature at 120 degrees. Hinges include a concealed switch to automatically activate the interior incandescent lighting. Guaranteed for life, work flow door handles are mounted horizontally over recess in door which limits protrusion from door face into aislesways. Doors have seamless, polished metal corners.

Easily removable for cleaning, vinyl magnetic door gasket assures tight door seal. Anti condensate heaters are located behind each door opening.

Both the cabinet and door(s) are insulated with an average of 2" thick high density, non-CFC, foamed in place polyurethane.

DIMENSIONAL DATA	RLT132WUT	RLT232WUT	
Net capacity cu. ft.	24.2 (686 cu l)	51.6 (1462 cu l)	
Length - overall in.	29 ⁷ / ₈ (75.9 cm)	58 (147.3 cm)	
Depth - overall in.	35 (88.8 cm)	35 (88.8 cm)	
Depth - less handle in.	33 ³ / ₄ (84.4 cm)	33 ³ / ₄ (84.4 cm)	
Depth - over body in.	32 (81.3 cm)	32 (81.3 cm)	
Depth - door open 90° in.	57 ¹¹ / ₁₆ (146.5 cm)	57 ¹¹ / ₁₆ (146.5 cm)	
Clear door width in.	21 ¹ / ₈ (53.6 cm)	21 ¹ / ₈ (53.6 cm)	
Clear full-door height in.	57 ⁵ / ₈ (146.3 cm)	57 ⁵ / ₈ (146.3 cm)	
Height - overall on 6" casters	83 ¹ / ₂ (211.5 cm)	83 ¹ / ₂ (211.5 cm)	
RLT Net Wt. lbs. ¹	415 (188 kg)	705 (320 kg)	
ALT Net Wt. lbs. ¹	365 (166 kg)	625 (283 kg)	
Shelf area sq. ft. ²	18.8 (1.75 sq m)	37.6 (3.49 sq m)	
STANDARD ELECTRICAL & REFRIGERATION DATA			
Voltage	115/60/1	115/60/1	
Feed wires with Ground	3	3	
Full load amperes	9.4	14.9	
Refrigerant	R-404A	R-404A	
BTU/HR H.P. ³	2160 (1/2 HP)	3790 (3/4 HP)	4100 (3/4 HP)

NOTES

NOTE: Figures in parentheses reflect metric equivalents.

1= For shipping weights and dimensions please refer to form TR35875.

2= Area of standard shelf compliment only, does not include storage area of additional shelves or available on cabinet bottom.

3= Based on a 90 degree F ambient and -10 degree F evaporator (-20 for 3-section models).

Refrigeration System

A top mounted, self-contained, balanced refrigeration system using R-404A refrigerant is conveniently located behind the one piece louver assembly. It features an easy to clean front facing condenser, thermostatic expansion valve, air-cooled hermetic compressor, plenum effect blower coil, large, high humidity evaporator coil located outside the food zone and a top mounted non-electric condensate evaporator. Biased return air duct protects against introduction of warm kitchen air, promoting even temperature maintenance and efficient operation. A 9' cord and plug is provided. Standard operating temperature is 0 to -5°F (all models are -10 degree F capable in up to 100 degree ambient).

Controller

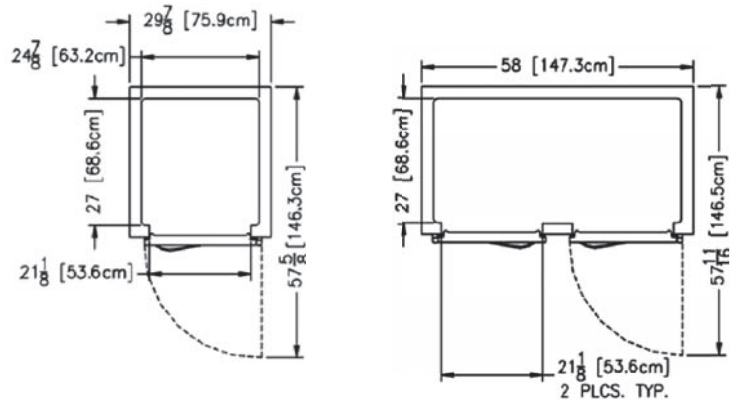
The easy to use water resistant INTELA-TRAUL® microprocessor control system is supplied standard. Unit is NAFEM Data Protocol communication (NDP) ready. Optional hardware required to be NDP compliant. Third party software required for network connection. It includes a 3-Digit LED Display, Fahrenheit or Celsius Temperature Scale Display Capability, Defrost Lockouts, and an RS485 data port. In addition it includes audio/visual alarms for: Hi/Lo Cabinet Temperature, Door Open, Clean Condenser, Evaporator Coil and Discharge Line Sensor Failures, and Power Supply Interruption.

Interior

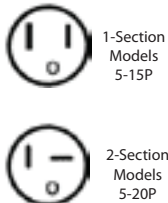
Standard interior arrangements include plated shelves, mounted on shelf pins. Shelves are full-width, and do not have any large gaps between them requiring the use of "bridge" or "junior shelves." Recommended load limit per shelf should not exceed 225 lbs. Optional tray slides may be purchased in combination with, or in lieu of these.

Warranties

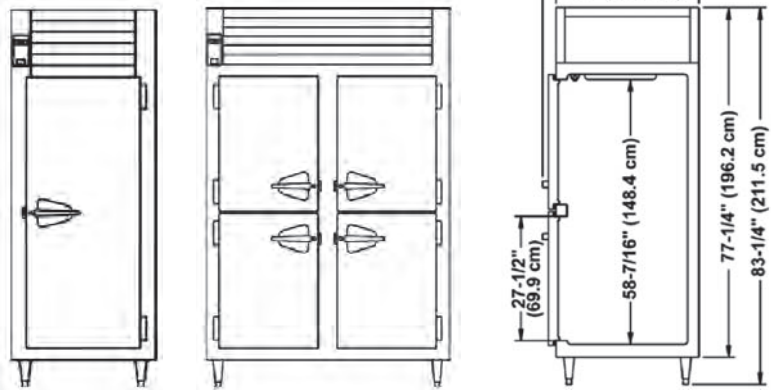
Both a one year parts and labor warranty and a five year compressor warranty (self-contained models only) are provided standard. An optional 2nd year extended parts and labor warranty is also available. In addition the INTELA-TRAUL® control is warranted by a two year parts and labor warranty.



NEMA Plug Chart For Freezer Models



NOTE: Full load amps and plug style may vary depending on electrical options chosen and condensing unit employed.



NOTE: When ordering please specify: Voltage, Hinging, Door Size, Options and any additional warranties.

Continued product development may necessitate specification changes without notice.

TRAULSEN
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302





SPECIFICATION SHEET

ITEM # 420

ITEM DESCRIPTION: SINGLE UNDERCOUNTER REFRIGERATOR

MANUFACTURER: TRAUlsen MODEL #UHT27-ZCF

ELECTRICAL SPECIFICATIONS:

VOLT:	115
PH:	1
KW:	0.564
AMP:	4.7
HP:	0.2
NEMA RATING:	5-20P

PLUMBING SPECIFICATIONS:

HW:	_____
CW:	_____
FW:	_____
FW2:	_____
IW:	_____
ROUGH-IN:	_____

REMARKS:

HINGE RIGHT - ORDER ON 4" CASTERS

ISSUE DATE:

5/3/2018

ITEM # 420

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Compact Undercounter Refrigerator Models/Self-Contained



Model UHT27-R
(shown with optional casters)

27", 32", 48", 60 & 72" Wide Models



27" One Door Refrigerator Hinged Left	UHT27-L*
27" One Door Refrigerator Hinged Right	UHT27-R*
32" One Door Refrigerator Hinged Left	UHT32-L*
32" One Door Refrigerator Hinged Right	UHT32-R*
48" Two Door Refrigerator Hinged Left/Right	UHT48-LR*
60" Two Door Refrigerator Hinged Left/Right	UHT60-LR*
72" Two Door Refrigerator Hinged Left/Right	UHT72-LR

Traulsen's durable, high performance, compact undercounter refrigerator models provide a high quality/high value alternative to the all too common commodity types in today's market.

Durable, built with stainless steel exteriors and anodized aluminum interiors, their heavy duty cabinet construction promises years of useful service. Truly front breathing, their design allows for "zero-clearance" installation. As a result they can be placed right up against the back wall and alongside other kitchen equipment, saving valuable floor space.

Additionally, they offer a wide range of optional accessories to choose from, and are ideal for use with many different type applications.

Standard Product Features

- Stainless Steel Exterior Top, Sides & Doors
- Anodized Aluminum Interior
- Front Breathing Self-Contained Refrigeration System
- Environmentally Friendly R-134a Refrigerant
- Self-Closing Stainless Steel Doors With Stay Open Feature At 105 Degrees
- Anodized Aluminum Interior Door Liner
- Interior Mounted Thermometer
- Two (2) Powder Coated Shelves Per Door, Mounted On Pilasters
- Automatic Non-Electric Condensate Evaporator
- Magnetic Snap-In EZ-Clean Door Gasket(s)
- 8' Cord & Plug Attached
- Set of Four (4) 6" High Adjustable Legs (6 For 60" & 72" models)
- Three Year Parts And Labor Warranty
- Five Year Compressor Warranty

Optional Accessory Kits*

- **CASTER 5SET4** (four 6" high casters for 27", 32" & 48" models)
- **CASTER 5SET6** (six 6" high casters for 60" & 72" models)
- **CASTER SET4IN** (four 4" high casters for 27", 32" & 48" models)
- **CASTER 60SET3** (six 4" high casters for 60" & 72" models)
- **CASTER SET3IN** (four 3-1/2" high casters for 27", 32" & 48" models)
- **CASTER SET4** (six 3-1/2" high casters for 60" & 72" models)
- **CASTER SET2IN** (four 2-1/2" high casters for 27" & 32" models)
- **CASTER 2SET4** (four 2-3/4" high casters for 48" models)
- **CASTER 2SET6** (six 2-3/4" high casters for 60" & 72" models)
- **SHELF CPW1** (additional shelf for all 27" models)
- **SHELF CPW2** (additional shelf for all 32" models)
- **SHELF48 UPPER** (upper shelf for all 48" models)
- **SHELF48 LOWER** (lower shelf for all 48" models)
- **SHELF60 UPPER** (upper shelf for all 60" models)
- **SHELF60 LOWER** (lower shelf for all 60" models)
- **SHELF72 UPPER** (upper shelf for all 72" models)
- **SHELF72 LOWER** (lower shelf for all 72" models)
- **CU27TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT27)
- **CU32TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT32)
- **CU48TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT48)
- **CU60TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT60)
- **CU72TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT72)

*Optional accessory kits shipped separately for field installation.

Factory Installed Options

- Stainless Steel Finished Back
- Other Door Hingsings



* **Noted models are ENERGY STAR®** listed. Please refer to www.energystar.gov to view the most up-to-date product listing and performance data.



Listed by Underwriters Laboratories Inc., to U.S. and Canadian safety standards and NSF International in accordance with ANSI/NSF7.

Approval: _____



TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Specifications

Construction, Hardware and Insulation

Cabinet exterior front, one piece sides, and doors are constructed of 22 gauge stainless steel. Cabinet interior and door liners are constructed of anodized aluminum. The exterior cabinet back and bottom are constructed of galvanized steel.

Door self close at less than 90 degrees and also include a stay open feature at 105 degrees. Gasket profile and Santoprene® material simplify cleaning and increase overall gasket life. Both the cabinet and door(s) are insulated with an average of 2" thick high density, non-CFC, foamed in place polyurethane.

Refrigeration System

A balanced, rear mounted, front breathing, self-contained refrigeration system using R-134a refrigerant is provided. It features a capillary tube metering device, air-cooled hermetic compressor, a forced air evaporator coil and a non-electric condensate evaporator. An 8' cord and plug is provided. Standard operating temperature for refrigerator models is 34 to 38°F.

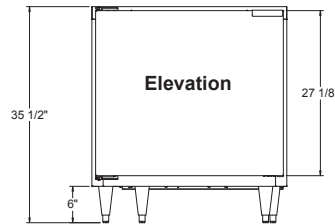
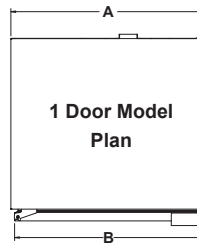
Interior

Standard interior arrangements include two (2) powder coated wire shelves per door, mounted on pilasters. These are adjustable in 1/2" increments, allowing for a minimum of 1-1/2" spacing between shelves.

Warranties

Both a three year parts and labor warranty and a five year compressor warranty (self-contained models only) are provided standard.

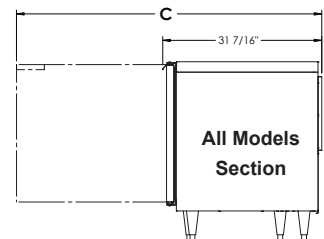
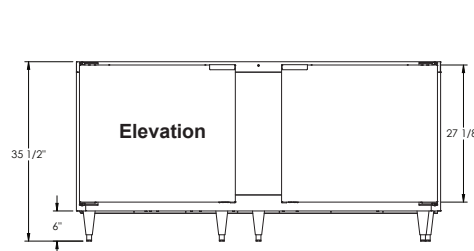
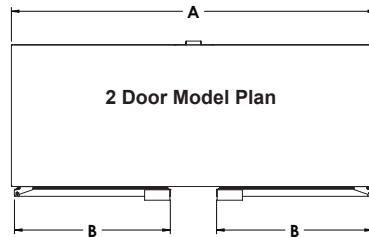
Cabinet Dimensional Data								
Model	Storage cu. ft.	A Length - cabinet	B Width - door	C Depth - door open 90°	Clear door opening	# of doors	# of shelves	Total shelf area sq. ft.
UHT27	7.1	27"	25 7/8"	55 3/8"	22 3/4"	1	2	4.88
UHT32	8.8	32"	30 7/8"	60 3/8"	27 3/4"	1	2	6.1
UHT48	13.1	48"	21 1/8"	50 5/8"	18"	2	4	10.3
UHT60	16.7	60"	25 7/8"	55 3/8"	22 3/4"	2	4	13.2
UHT72	20	72"	30 7/8"	60 3/8"	27 3/4"	2	4	15.5



Electrical & Refrigeration Data			Shipping Data		
Model	Full Load Amps	BTU/HR - HP	Width - crated	Volume - crated cu. ft.	Weight - lbs.
UHT27	4.7	1520 (1/5)	45"	45	240 net/275 gross
UHT32	6.2	1520 (1/5)	45"	45	255 net/300 gross
UHT48	6.3	1520 (1/5)	69"	69	355 net/400 gross
UHT60	6.3	1520 (1/5)	69"	69	457 net/500 gross
UHT72	6.3	1520 (1/5)	84"	84	548 net/575 gross

NOTES:

- Based on a 90 degree F ambient and 20 degree F evaporator.
- When ordering please specify: voltage, hinging, optional accessories and any additional warranties.
- Continued product development may necessitate specification changes without notice.



Part No. TR35819 (REV. 03-20-14)

TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302





SPECIFICATION SHEET

ITEM # 421

ITEM DESCRIPTION: DOUBLE UNDERCOUNTER REFRIGERATOR

MANUFACTURER: TRAUlsen MODEL #UHT48-ZCF-LR

ELECTRICAL SPECIFICATIONS:

VOLT:	115
PH:	1
KW:	0.756
AMP:	6.3
HP:	0.2
NEMA RATING:	5-15P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	
IW:	
ROUGH-IN:	

REMARKS:

ORDER ON 4" CASTERS

ISSUE DATE:

5/4/2018

ITEM # 421

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Compact Undercounter Refrigerator Models/Self-Contained



Model UHT27-R
(shown with optional casters)



27", 32", 48", 60 & 72" Wide Models

27" One Door Refrigerator Hinged Left	UHT27-L*
27" One Door Refrigerator Hinged Right	UHT27-R*
32" One Door Refrigerator Hinged Left	UHT32-L*
32" One Door Refrigerator Hinged Right	UHT32-R*
48" Two Door Refrigerator Hinged Left/Right	UHT48-LR*
60" Two Door Refrigerator Hinged Left/Right	UHT60-LR*
72" Two Door Refrigerator Hinged Left/Right	UHT72-LR

Traulsen's durable, high performance, compact undercounter refrigerator models provide a high quality/high value alternative to the all too common commodity types in today's market.

Durable, built with stainless steel exteriors and anodized aluminum interiors, their heavy duty cabinet construction promises years of useful service. Truly front breathing, their design allows for "zero-clearance" installation. As a result they can be placed right up against the back wall and alongside other kitchen equipment, saving valuable floor space.

Additionally, they offer a wide range of optional accessories to choose from, and are ideal for use with many different type applications.

Standard Product Features

- Stainless Steel Exterior Top, Sides & Doors
- Anodized Aluminum Interior
- Front Breathing Self-Contained Refrigeration System
- Environmentally Friendly R-134a Refrigerant
- Self-Closing Stainless Steel Doors With Stay Open Feature At 105 Degrees
- Anodized Aluminum Interior Door Liner
- Interior Mounted Thermometer
- Two (2) Powder Coated Shelves Per Door, Mounted On Pilasters
- Automatic Non-Electric Condensate Evaporator
- Magnetic Snap-In EZ-Clean Door Gasket(s)
- 8' Cord & Plug Attached
- Set of Four (4) 6" High Adjustable Legs (6 For 60" & 72" models)
- Three Year Parts And Labor Warranty
- Five Year Compressor Warranty

Optional Accessory Kits*

- **CASTER 5SET4** (four 6" high casters for 27", 32" & 48" models)
- **CASTER 5SET6** (six 6" high casters for 60" & 72" models)
- **CASTER SET4IN** (four 4" high casters for 27", 32" & 48" models)
- **CASTER 60SET3** (six 4" high casters for 60" & 72" models)
- **CASTER SET3IN** (four 3-1/2" high casters for 27", 32" & 48" models)
- **CASTER SET4** (six 3-1/2" high casters for 60" & 72" models)
- **CASTER SET2IN** (four 2-1/2" high casters for 27" & 32" models)
- **CASTER 2SET4** (four 2-3/4" high casters for 48" models)
- **CASTER 2SET6** (six 2-3/4" high casters for 60" & 72" models)
- **SHELF CPW1** (additional shelf for all 27" models)
- **SHELF CPW2** (additional shelf for all 32" models)
- **SHELF48 UPPER** (upper shelf for all 48" models)
- **SHELF48 LOWER** (lower shelf for all 48" models)
- **SHELF60 UPPER** (upper shelf for all 60" models)
- **SHELF60 LOWER** (lower shelf for all 60" models)
- **SHELF72 UPPER** (upper shelf for all 72" models)
- **SHELF72 LOWER** (lower shelf for all 72" models)
- **CU27TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT27)
- **CU32TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT32)
- **CU48TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT48)
- **CU60TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT60)
- **CU72TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT72)

*Optional accessory kits shipped separately for field installation.

Factory Installed Options

- Stainless Steel Finished Back
- Other Door Hingsings



* **Noted models are ENERGY STAR®** listed. Please refer to www.energystar.gov to view the most up-to-date product listing and performance data.



Listed by Underwriters Laboratories Inc., to U.S. and Canadian safety standards and NSF International in accordance with ANSI/NSF7.

Approval: _____



TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Specifications

Construction, Hardware and Insulation

Cabinet exterior front, one piece sides, and doors are constructed of 22 gauge stainless steel. Cabinet interior and door liners are constructed of anodized aluminum. The exterior cabinet back and bottom are constructed of galvanized steel.

Door self close at less than 90 degrees and also include a stay open feature at 105 degrees. Gasket profile and Santoprene® material simplify cleaning and increase overall gasket life. Both the cabinet and door(s) are insulated with an average of 2" thick high density, non-CFC, foamed in place polyurethane.

Refrigeration System

A balanced, rear mounted, front breathing, self-contained refrigeration system using R-134a refrigerant is provided. It features a capillary tube metering device, air-cooled hermetic compressor, a forced air evaporator coil and a non-electric condensate evaporator. An 8' cord and plug is provided. Standard operating temperature for refrigerator models is 34 to 38°F.

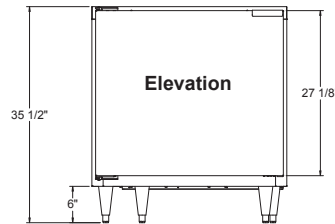
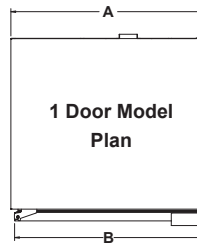
Interior

Standard interior arrangements include two (2) powder coated wire shelves per door, mounted on pilasters. These are adjustable in 1/2" increments, allowing for a minimum of 1-1/2" spacing between shelves.

Warranties

Both a three year parts and labor warranty and a five year compressor warranty (self-contained models only) are provided standard.

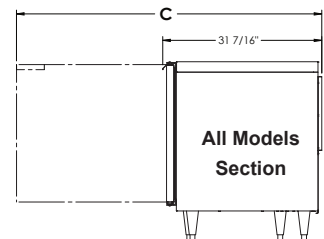
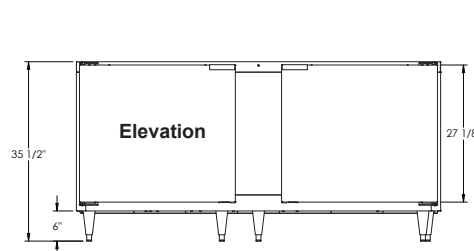
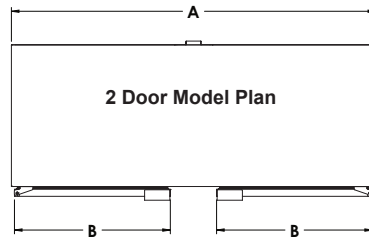
Cabinet Dimensional Data								
Model	Storage cu. ft.	A Length - cabinet	B Width - door	C Depth - door open 90°	Clear door opening	# of doors	# of shelves	Total shelf area sq. ft.
UHT27	7.1	27"	25 7/8"	55 3/8"	22 3/4"	1	2	4.88
UHT32	8.8	32"	30 7/8"	60 3/8"	27 3/4"	1	2	6.1
UHT48	13.1	48"	21 1/8"	50 5/8"	18"	2	4	10.3
UHT60	16.7	60"	25 7/8"	55 3/8"	22 3/4"	2	4	13.2
UHT72	20	72"	30 7/8"	60 3/8"	27 3/4"	2	4	15.5



Electrical & Refrigeration Data			Shipping Data		
Model	Full Load Amps	BTU/HR - HP	Width - crated	Volume - crated cu. ft.	Weight - lbs.
UHT27	4.7	1520 (1/5)	45"	45	240 net/275 gross
UHT32	6.2	1520 (1/5)	45"	45	255 net/300 gross
UHT48	6.3	1520 (1/5)	69"	69	355 net/400 gross
UHT60	6.3	1520 (1/5)	69"	69	457 net/500 gross
UHT72	6.3	1520 (1/5)	84"	84	548 net/575 gross

NOTES:

- Based on a 90 degree F ambient and 20 degree F evaporator.
- When ordering please specify: voltage, hinging, optional accessories and any additional warranties.
- Continued product development may necessitate specification changes without notice.



Part No. TR35819 (REV. 03-20-14)

TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302





SPECIFICATION SHEET

ITEM # 432W

ITEM DESCRIPTION: DOUBLE REFRIGERATED WORK TABLE

MANUFACTURER: TRAUlsen MODEL #UHT60-ZCF-LR

ELECTRICAL SPECIFICATIONS:

VOLT:	115
PH:	1
KW:	0.756
AMP:	6.3
HP:	0.2
NEMA RATING:	5-20P

PLUMBING SPECIFICATIONS:

HW:	_____
CW:	_____
FW:	_____
FW2:	_____
IW:	_____
TW:	_____
GAS SIZE:	_____
GAS AFF:	_____
GAS MBTU:	_____

REMARKS:

ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP

ISSUE DATE:

10/2/2020

ITEM # 432W

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Compact Undercounter Refrigerator Models/Self-Contained



Model UHT27-R
(shown with optional casters)

27", 32", 48", **60** & 72" Wide Models



27" One Door Refrigerator Hinged Left	UHT27-L*
27" One Door Refrigerator Hinged Right	UHT27-R*
32" One Door Refrigerator Hinged Left	UHT32-L*
32" One Door Refrigerator Hinged Right	UHT32-R*
48" Two Door Refrigerator Hinged Left/Right	UHT48-LR*
60" Two Door Refrigerator Hinged Left/Right	UHT60-LR*
72" Two Door Refrigerator Hinged Left/Right	UHT72-LR

Traulsen's durable, high performance, compact undercounter refrigerator models provide a high quality/high value alternative to the all too common commodity types in today's market.

Durable, built with stainless steel exteriors and anodized aluminum interiors, their heavy duty cabinet construction promises years of useful service. Truly front breathing, their design allows for "zero-clearance" installation. As a result they can be placed right up against the back wall and alongside other kitchen equipment, saving valuable floor space.

Additionally, they offer a wide range of optional accessories to choose from, and are ideal for use with many different type applications.

Standard Product Features

- Stainless Steel Exterior Top, Sides & Doors
- Anodized Aluminum Interior
- Front Breathing Self-Contained Refrigeration System
- Environmentally Friendly R-134a Refrigerant
- Self-Closing Stainless Steel Doors With Stay Open Feature At 105 Degrees
- Anodized Aluminum Interior Door Liner
- Interior Mounted Thermometer
- Two (2) Powder Coated Shelves Per Door, Mounted On Pilasters
- Automatic Non-Electric Condensate Evaporator
- Magnetic Snap-In EZ-Clean Door Gasket(s)
- 8' Cord & Plug Attached
- Set of Four (4) 6" High Adjustable Legs (6 For 60" & 72" models)
- Three Year Parts And Labor Warranty
- Five Year Compressor Warranty

Optional Accessory Kits*

- **CASTER 5SET4** (four 6" high casters for 27", 32" & 48" models)
- **CASTER 5SET6** (six 6" high casters for 60" & 72" models)
- **CASTER SET4IN** (four 4" high casters for 27", 32" & 48" models)
- **CASTER 60SET3** (six 4" high casters for 60" & 72" models)
- **CASTER SET3IN** (four 3-1/2" high casters for 27", 32" & 48" models)
- **CASTER SET4** (six 3-1/2" high casters for 60" & 72" models)
- **CASTER SET2IN** (four 2-1/2" high casters for 27" & 32" models)
- **CASTER 2SET4** (four 2-3/4" high casters for 48" models)
- **CASTER 2SET6** (six 2-3/4" high casters for 60" & 72" models)
- **SHELF CPW1** (additional shelf for all 27" models)
- **SHELF CPW2** (additional shelf for all 32" models)
- **SHELF48 UPPER** (upper shelf for all 48" models)
- **SHELF48 LOWER** (lower shelf for all 48" models)
- **SHELF60 UPPER** (upper shelf for all 60" models)
- **SHELF60 LOWER** (lower shelf for all 60" models)
- **SHELF72 UPPER** (upper shelf for all 72" models)
- **SHELF72 LOWER** (lower shelf for all 72" models)
- **CU27TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT27)
- **CU32TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT32)
- **CU48TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT48)
- **CU60TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT60)
- **CU72TOP BSWO** (22 ga. stainless steel top with 4" backsplash UHT72)

*Optional accessory kits shipped separately for field installation.

Factory Installed Options

- Stainless Steel Finished Back
- Other Door Hingsings



* **Noted models are ENERGY STAR® listed. Please refer to www.energystar.gov to view the most up-to-date product listing and performance data.**



Listed by Underwriters Laboratories Inc., to U.S. and Canadian safety standards and NSF International in accordance with ANSI/NSF7.

Approval: _____



TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Specifications

Construction, Hardware and Insulation

Cabinet exterior front, one piece sides, and doors are constructed of 22 gauge stainless steel. Cabinet interior and door liners are constructed of anodized aluminum. The exterior cabinet back and bottom are constructed of galvanized steel. Door self close at less than 90 degrees and also include a stay open feature at 105 degrees. Easily removable for cleaning, vinyl magnetic door gasket assures tight door seal.

Both the cabinet and door(s) are insulated with an average of 2" thick high density, non-CFC, foamed in place polyurethane.

Refrigeration System

A balanced, rear mounted, front breathing, self-contained refrigeration system using R-404A refrigerant is provided. It features a TXV valve, air-cooled hermetic compressor, a forced air evaporator coil and a non-electric condensate evaporator. An 8' cord and plug is provided. Standard operating temperature for freezer models is 0 to -5°F.

Interior

Standard interior arrangements include two (2) powder coated wire shelves per door, mounted on pilasters. These are adjustable in 1/2" increments, allowing for a minimum of 1-1/2" spacing between shelves.

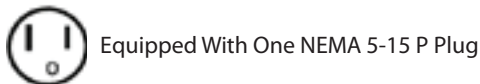
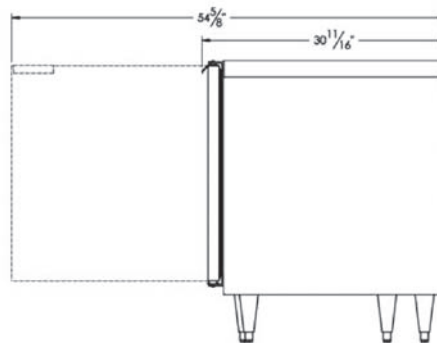
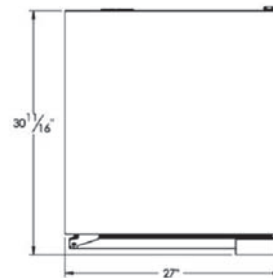
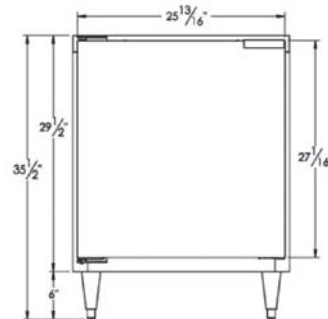
Warranties

Both a one year parts and labor warranty and a five year compressor warranty (self-contained models only) are provided standard. An optional 2nd year extended parts and labor warranty is also available.

DIMENSIONAL DATA	ULT27
Freezer	
Net capacity cu. ft.	7.1
Length - overall in.	27
Depth - overall in.	30 ¹¹ / ₁₆
Depth - with door open 90°	54 ³ / ₈
Clear door height in.	24 ¹ / ₈
Clear door width in.	22 ³ / ₄
Height - overall on 6" legs in.	35 ¹ / ₂
Number of shelves - total	2
Shelf area sq. ft.	4.88
ELECTRICAL DATA	
Voltage	115/60/1
Full Load Amperes	8.0
REFRIGERATION DATA	
Refrigerant	R-404A
BTU/HR - H.P. ¹	1930 (1/2 HP)
SHIPPING DATA	
Length - Crated in.	44
Depth - Crated in.	44 ¹ / ₄
Height - Crated in.	46 ³ / ₄
Volume - Crated cu. ft.	53
Net Wt. lbs.	260
Gross Wt. lbs.	285

NOTES

1= Based on a 90 degree F ambient and 20 degree F evaporator.



NOTE: When ordering please specify: Voltage, Hinging, Optional Accessories and any additional warranties.

Continued product development may necessitate specification changes without notice.



SPECIFICATION SHEET

ITEM # 438L

ITEM DESCRIPTION: 33" COLD RAIL

MANUFACTURER: RANDELL MODEL #CR9039M-CFA

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

REMARKS FROM SCHEDULE

ISSUE DATE:

2/25/2022

ITEM # 438L



PREPARATION TABLE

COUNTERTOP RAIL FOR CHICK-FIL-A

The CR9000 Series takes the best of condiment cooling designs from our 8000 Series Preparation Table and makes them available in a counter top design. These counter top rails offer the option of converting existing work surfaces into pan holding operations in compliance with the NSF/ANSI standard 7, 41° F. pan product temperatures. Available in two convenient sizes: 32.75" and 39.75."

PROJECT NAME:

LOCATION:

ITEM NO:

QTY:

MODEL NO:

AIA NO:

SIS NO:

CSI SECTION: 11400

AVAILABLE MODELS:

- CR9039M-CFA
- CR9039M-CFAR
- CR9046M-CFA
- CR9046M-CFAR

STANDARD FEATURES:

- Meets 1998 NSF standard 7 41° F product temperature requirements
- Recessed wrapped coldwall rail with exclusive temperature control

UNIT CONSTRUCTION:

Exterior front, sides and top are constructed of 18 gauge stainless steel. The raised refrigerated rail will be mechanically cooled and shall be provided with one opening to allow flexible pan configurations. The interior of the rail will be one piece stainless steel with coved corners for easy wipe out. Rail will hold standard 6" deep pans - supplied by others. Unit bottom is galvanized metal. The mechanical housing is mounted on top of a reinforced stainless steel enclosed overshell with a concealed mechanical chase, stainless steel removable air flow cover and removable compressor filter.

REFRIGERATION SYSTEM:

Designed with R-134A refrigerant, this coldwall constructed unit is provided with a self-contained 1/4 HP compressor refrigeration system. A exterior mounted on/off switch is provided as standard to allow the rail to be shut off for defrosting and non-use times.

ELECTRICAL:

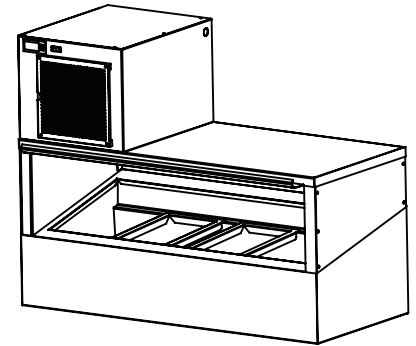
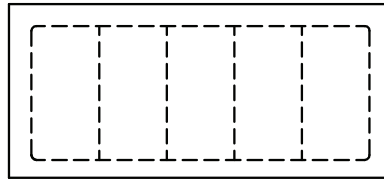
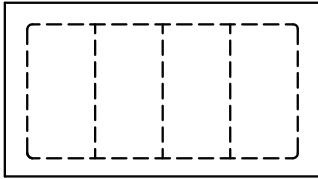
Units will be provided with a 9' power cord and 3-wire grounded plug as standard, pre wired for 115 volt, 60 hertz, single phase operation. Export voltages are available and require hard wiring in the field to the units main junction box. This equipment is intended for use in rooms having an ambient temperature of 86°F (30°C) or less.

ORIGIN OF MANUFACTURE:

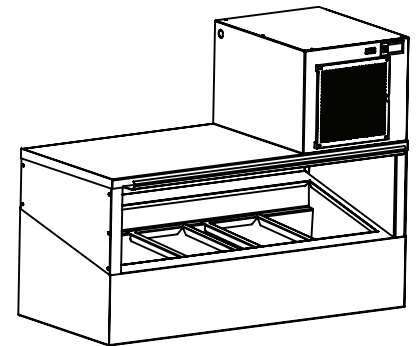
Designed and manufactured in the United States.



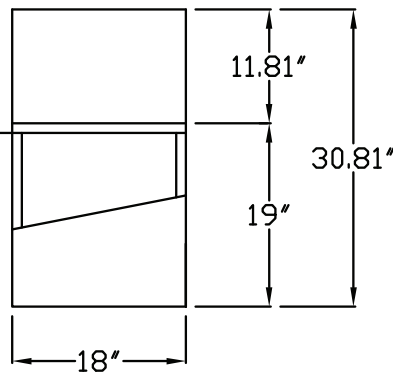
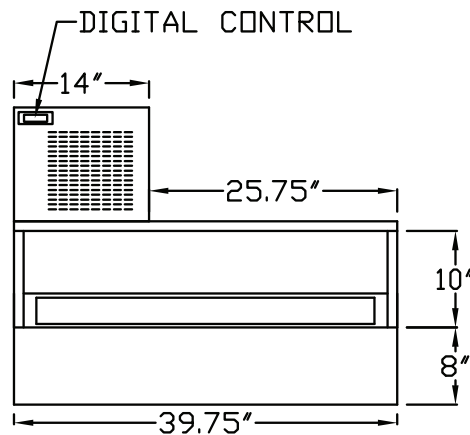
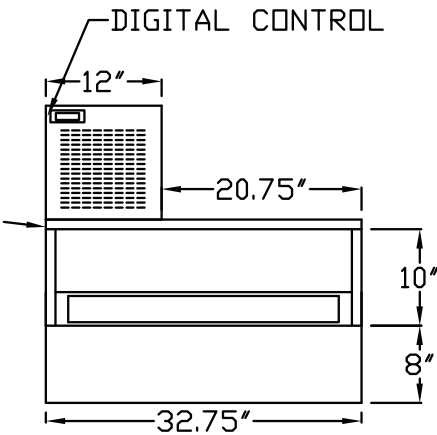
Prep Tables
PPSPECCR9000M-CFAR
Issued 06/13



CR9039-CFA Model



CR9039-CFAR Model



FLIP-UP STYLE COVER

END VIEW

CR9000M-CFA drawings shown. CR9000M-CFAR dimensions are a mirror image of CFA model per the isometric drawing at upper right.

Model	L	D	H*	Pan Capacity	HP	Volt	Amps	NEMA	Ship Wt.
CR9039-CFA(R)	32.75"	18"	30.81"	(4) 1/3 or (8) 1/6	1/4	115/60/1	7.1	5-15P	133
CR9046-CFA(R)	39.75"	18"	30.81"	(5) 1/3 or (10) 1/6	1/4	115/60/1	7.1	5-15P	162

NOTE: Unit must set away from rear or right side wall 4".

*Height listed is to top of open lid assembly. Height to top of the rail at rear is 12.09".



SPECIFICATION SHEET

ITEM # 440C

ITEM DESCRIPTION: ICE BATH BREADING

MANUFACTURER: DUKE MANUFACTURING

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
AMPS: _____
PLUG TYPE: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
TW: _____
GAS SIZE: _____
GAS AFF: _____
GAS MBTU: _____

REMARKS:

ISSUE DATE:

4/26/2021

ITEM # 440C



Ice Bath Breeding Table Rollout

Equipment Specifications
Duke Ice Bath Breeding Table

REV	ECO#	REV BY	DATE	DESCRIPTION
A		ANO	02/10/2020	New Release
B		ANO	02/18/2020	PARTS ADDED: E080172, E080153

ITEM NO.	QTY.	PART #	DESCRIPTION	DESCRIPTION 2
1	1	E080101	CFA BREEDING STATION	PAN ORGANIZER SPACER
2	1	E080109	CFA BREEDING STATION	ANTI-FLOAT FRAME SLIDE
3	1	E080156	CFA BREEDING STATION	TRANSFER SHELF
4	2	E080088	CFA BREEDING STATION	GLOVES HOLDER
5	1	E080137	CFA BREEDING STATION	SIDE SHELF ASSEMBLY
6	1	E080088	CFA BREEDING STATION	SINK ASSEMBLY
7	1	E080136	CFA BREEDING STATION	BODY ASSEMBLY
8	1	E080147	CFA BREEDING STATION	COVER ASSEMBLY
9	1	E080165	CFA BREEDING STATION	PAN ORGANIZER 4PC ASSEMBLY
10	1	E080172	CFA BREEDING STATION	ANTI-FLOAT FRAME 1.25 ASSEM
11	1	E080153	CFA BREEDING STATION	CONTROL PANEL WIRI ASSEMBLY

UNLESS OTHERWISE NOTED:
ALL DIMENSIONS ARE OUTSIDE
TOLERANCES:
LINEAR: $\pm .032"$
ANGLES: $\pm .1^\circ$
HOLES: $\pm .002"$

DUKE MANUFACTURING CO.
601 DUKE DRIVE SEDALIA MO. 65301
"YOUR SOLUTIONS PARTNER"

DRAWING BY: ANO	DATE: 1/23/20	CFA BREEDING STATION
ASSEMBLY LINE:		TOP LEVEL ASSEMBLY
CUSTOMER: CFA	PART FILE: cfa_breeding_station_sink_assembly_with_accessories	
SHEET 1 OF 1	SCALE 1:24	DWG / PART NO: E080148

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Pizza/Salad/Sandwich Prep Table Self-Contained



Model TS066HT-ZCF01

66" Wide Model



66" Long Model for 9 x 1/3 Pans
90" Long Model for 12 x 1/3 Pans

TS066HT-ZCF01
TS090HT-ZCF01

The #1 complaint about prep tables is pans not being kept cold enough. This can lead to unnecessary food waste, Health Department citations, or even food safety issues. Other problems include frequently frozen product, and the labor required everyday to clean the inevitable ice and water made by traditional cold wall types. If you've experienced any of these problems before, then Traulsen's easy to clean prep table (with drain) is what you've been looking for.

Also, Traulsen prep table's TempAssure air flow system circulates cold air around and underneath the pans, as well as lofting a protective blanket over the food surface, effectively insulating it from warm kitchen air. For you this means...

- ✓ "All-Day" Temperature Performance To NSF7 Test Requirements
- ✓ Doesn't Freeze Product
- ✓ No Dried Product
- ✓ No Ice To Clean Up
- ✓ Holds 6" Deep Pans
- ✓ Pans Held Completely Level
- ✓ No Pan Stirring

TempAssure air flow system ensures pans are held cold, making them ideal for preparing pizzas, sandwiches, bagels, gyros, burgers, salads, tacos/burritos, sushi, etc. or nearly anything requiring a ready supply of cold ingredients and/or condiments. Traulsen's TS Series prep tables provide the answer to the all too common open top pan dilemma.

Standard Product Features

- "All-Day" Temperature Performance To NSF7 Test Requirements
- High Quality Stainless Steel Exterior/Interior Construction
- INTELA-TRAUL® Patented Microprocessor Control
- 115/60/1 Self-Contained System Using R-404a Refrigerant
- Stainless Steel Insulated Lift-Up Rail Covers with Two Convenient Open Positions
- Accommodates Sixth & Ninth Size Pans With The Use Of Adapter Bars (pans provided as specified)
- Stainless Steel Field Re-Hingeable Door(s), With Locks
- Self-Closing Door(s) with Stay Open Feature
- Metal Door Handle with Gasket Guard
- Magnetic Snap-In Door Gaskets For Tight Door Seal
- Gasket-Protecting Stainless Steel Door Liner
- Two (2) Shelves Per Door, Mounted On Shelf Pins (factory installed)
- Energy Saving Non-Electric Automatic Condensate Evaporator
- Hot Gas Evaporator Defrost
- Thermostatic Expansion Valve Metering Device
- Large Interior Storage Capacity & Spacious Work Surface
- 4" Caster On Adjustable Channel Mounting System
- Side, Front & Rear Access Panel For Ease of Service & Maintenance
- 9' Cord & Plug Attached
- One Year Service Labor & 5 Year Compressor Warranty
- Two Year Control Warranty (parts and Labor)
- Three Year Drawer Parts Warranty

Options & Accessories

- Full Length White Plastic Cutting Board, 1/2" H x 15 1/2" D

Approval: _____



TRAULSEN
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302

Project	Quantity	Item #
Model Specified:		CSI Section 11400

Specifications

CONSTRUCTION, HARDWARE AND INSULATION

Unit exterior top and front sides are constructed of stainless steel, back and bottom is constructed of galvanized steel. Cabinet interior is constructed of stainless steel. Unit is insulated with an average 2" insulation on the top, bottom and all sides.

The 12" wide raised ingredient rail is designed to accommodate standard full, half or third size pans (pans provided as specified). Other size pans require use of adapter bars (pans provided as specified). Accommodates 6" deep pans. Stainless steel insulated lift-up rail cover, with two convenient open positions.

Doors are equipped with self-closing hinges and metal door handle with gasket guard. Each includes an easily removable for cleaning, vinyl magnetic door gasket which assures a tight door seal.

INTERIOR ARRANGEMENTS & SUPPORTS

Unit includes two (2) shelves per door, mounted on shelf pins. Cabinet is mounted on a set of 4" high heavy-duty casters.

DIMENSIONAL DATA	TS066HT	TS090HT
Net Capacity cu. ft.	15.7	24.4
Number of Pans (third size)	9	12
Drawer Option		
Pan Configurations	Side by Side	Side by Side
Length - Overall in.	66 (167.6 cm)	90 (228.6 cm)
Depth - Overall in. ¹	36 (91.4 cm)	36 (91.4 cm)
Clear Door Width in.	18.7	18.7
Clear Door Height in.	20.5	20.5
Number of Doors	2	3
Standard Door Hinging	LH/RH	LH/LH/RH
Number of Shelves	4	6
Shelf Area sq. ft. ²	14.8	22.2
Work Surface Height in.	33-9/16 (85.2 cm)	33-9/16 (85.2 cm)
Height - Overall in.	46-3/8 (117.8 cm)	46-3/8 (117.8 cm)
ELECTRICAL DATA		
Voltage	115/60/1	115/60/1
Full Load Amperes	9.0	9.0
NEMA Plug	5-15P	5-15P
REFRIGERATION DATA		
Refrigerant	R-404a	R-404a
BTU ³	3870	3870
Compressor HP	1/2	1/2

NOTES

NOTE: Figures in parentheses reflect metric equivalents.

1= Depth - Overall includes 2" removal stand off bracket located on back of unit. See drawings for detailed dimensions.

2=Area of standard shelf compliment only, does not include storage area of additional shelves or area available on cabinet bottom.

3=Based on a 90 degree F ambient and 10 degree F evaporator.



Listed by Underwriters Laboratories Inc. and



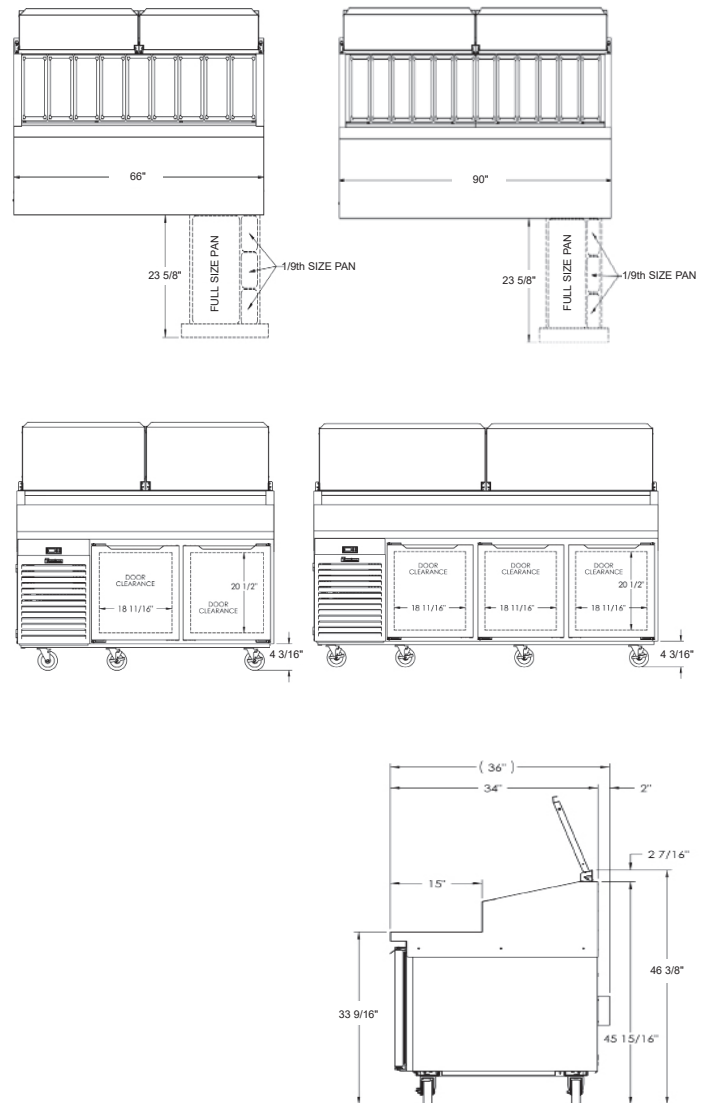
Equipped With One Twist Lock L5-15P Plug

REFRIGERATION SYSTEM

The self-contained refrigeration system cools the cabinet interior, as well as the raised ingredient rail through use of an exclusive TempAssure airflow ducting system which creates a layer of cold air over the pans, as well as all sides and bottom of the pans. This system distributes cold air from top to bottom, keeping the pans cold without freezing product and allows for "all-day" temperature performance to NSF7 test requirements. The condensing unit utilizes a hermetically sealed compressor, which is easily accessible behind the louvers. A 9' cord and plug is supplied standard. Standard interior cabinet operating temperature is 34 to 38°F.

WARRANTIES

Both a one year parts and labor warranty and a five year compressor warranty are provided standard. Three Year drawer parts warranty. An optional 2nd year extended parts and labor warranty is also available.



NOTE: When ordering please specify: Voltage, Hinging, Options and any additional warranties. Continued product development may necessitate specification changes without notice.

TRAULSEN
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302
SAP-505b TS066 & 90HT-ZCF01 8-19-11





SPECIFICATION SHEET

ITEM # 442WCL

ITEM DESCRIPTION: SINGLE UPRIGHT REFRIGERATOR (30" WIDE)

MANUFACTURER: TRAULSEN MODEL #RH132W-ZCF17

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 115
PH: 1
KW:
AMP: 7.6
HP:
NEMA RATING: 5-15P PLUG

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

REMARKS FROM SCHEDULE

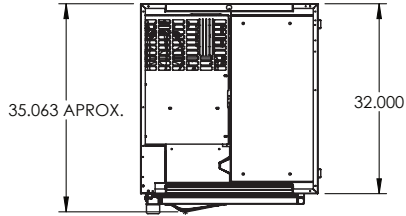
ISSUE DATE:

2/25/2022

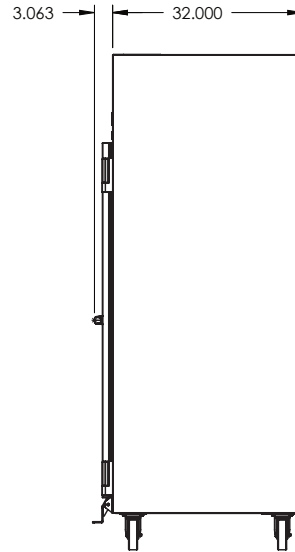
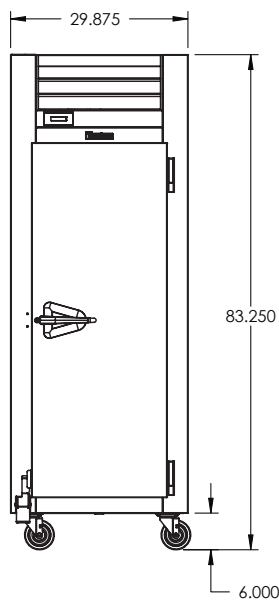
ITEM # 442WCL

RH132W-ZCF16

ECN #	REV	DESCRIPTION	DATE	NAME
	A	PRODUCTION RELEASE	03/02/21	KT



SEE SHEET 2 FOR DETAILS



DEVICE SHOWN IS RH132W-ZCF16
 DEVICE RH132W-ZCF17 IS SAME WITH
 LEFT HAND HINGING

RH132W-ZCF16 FIRST SERIAL NUMBER:
 T32515C21

RH132W-ZCF17 FIRST SERIAL NUMBER:
 T32512C21

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 DIMENSIONAL, MATERIAL OR PERFORMANCE CHARACTERISTICS OF SUCH PARTS AFTER
 APPROVAL BY TRAUlsen & CO., INC. GROUP OF VENDOR SAMPLES UNLESS AUTHORIZED IN
 WRITING BY TRAUlsen & CO., INC.

**DIMENSIONS ARE IN INCHES
 TOLERANCES:**
 .XX ± .03 FRACTIONS ± 1/32
 .XXX ± .015 ANGLES ± 1/2
 HOLES ± .005

PARTS ARE TO BE FREE OF BURRS AND SHARP EDGES
 MATERIAL
 SEE B.O.M.

FINISH --

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	K.TERASAKI	2/24/21
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



ONE SECTION R SERIES REFRIGERATOR - CHICK-FIL-A		
SIZE A	DWG. NO. RH132W-ZCF16	REV. A
NO SCALE	WEIGHT: N/A	SHEET 1 OF 2

RH132W-ZCF16

DEVICE SHOWN IS RH132W-ZCF16
 DEVICE RH132W-ZCF17 IS SAME WITH
 LEFT HAND HINGING

Model Number: RHT132WUT-FHS

Cabinet Feature: Standard Cabinet w/Galv Back
 Cabinet Lighting: Dome Light
 Cabinet Voltage: 115/1/60 - Self Contained - R-450A - Bare Tube Cond Coil
 Cabinet Supports: 6 in Casters

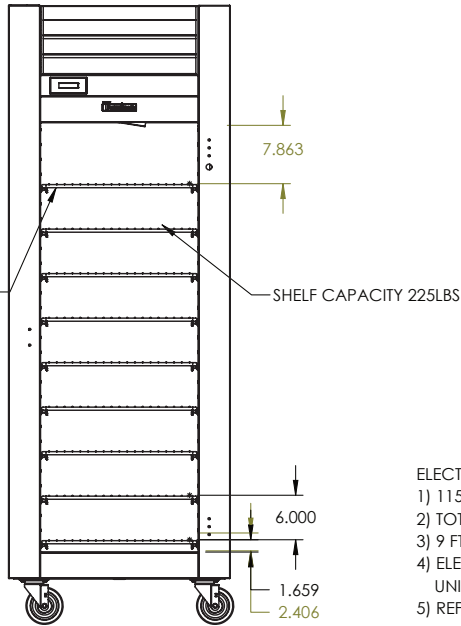
Door Height: Full Height
 Door Type: SS Door w/FP
 Door Hinging: Hinge Right or **Hinge Left**

Interior Location: Full Section

Interior Type: SS Shelves Special
 Interior Supports: Threaded Pins on Special Pilaster w/Rivnuts
 Shelf Qty: 9

Special features:
 Foot Pedal
 Special Shelves and Pilasters
 Condensate Heater
 IOT Hardware

9 SS SHELVES MOUNTED
 ON SHELF PINS AND PILASTERS
 ON SIX INCH CENTERS



DOOR AND FOOT PEDAL REMOVED FOR CLARITY

NEXGEN MICRO-PROCESSOR CONTROLLER

FULL HEIGHT
 SOLID DOOR
 W/WORK FLOW HANDLE

SS FOOT PEDAL

6 IN SWIVEL CASTERS W/BRAKE

- ELECTRICAL/REFRIGERANT DATA
- 1) 115v SINGLE PHASE 60 Hz
 - 2) TOTAL CURRENT (AMP DRAW) 7.6 AMPS
 - 3) 9 FT CORD WITH NEMA 5-15P PLUG
 - 4) ELECTRICAL CORD EXITS THE BACK MIDDLE OF THE UNIT APPROX 12" DOWN FROM THE TOP
 - 5) REFRIGERANT R-450A CAPACITY 18 OZ



ONE SECTION R SERIES
 REFRIGERATOR - CHICK-FIL-A

SIZE A	DWG. NO. RH132W-ZCF16	REV. A
NO SCALE	WEIGHT: N/A	SHEET 2 OF 2



SPECIFICATION SHEET

ITEM # 444D

ITEM DESCRIPTION: DOUBLE THAWING CABINET (52" WIDE)

MANUFACTURER: TRAUlsen MODEL #RE232N-ZCF02

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 115
PH: 1
KW:
AMP: 16
HP: 0.5
NEMA RATING: DIRECT CONNECTION

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

HINGE RIGHT - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS

ISSUE DATE:
5/27/2021

ITEM # 444D

Project	Quantity	Item #
Model Specified:		CSI Section 11400

**Reach-In Even-Thaw Refrigerator/
Self-Contained**



Model RE232N-ZCF02

Two Section Reach-In Models, 32" Deep
Full Length Door Model RE232N-ZCF02



The R-Series "N-Width" reach-in Even Thaw Refrigerator is designed especially to thaw frozen food product under safe, temperature controlled conditions. It can be used to thaw both full or partial loads of frozen food product.

This model includes such high quality cabinet features as stainless steel exterior and interior construction, self-closing doors with a stay open feature, and is equipped standard with a full compliment of stainless steel tray slides to accommodate either: one (1) 18" x 26" or two (2) 14" x 18" pans per pair of tray slides.

Standard Product Features

- Stainless Steel Exterior & Interior
- Special Refrigeration System/Air Flow Design Promotes Rapid, Safe Thawing Of Frozen Food Product
- Condenser Filter (on selected models)
- Full or Half Length Stainless Steel Doors With Locks
- Self-Closing Doors With Stay Open Feature At 120 Degrees
- Guaranteed For Life Cam-Lift Hinges
- Guaranteed For Life Horizontal Work Flow Door Handle
- Stainless Steel Breaker Caps
- Double Foot Pedal (on selected models)
- Twenty Eight (28) #1 Type Tray Slides 4" O.C. (14 per section)
- Automatic Non-Electric Condensate Evaporator
- Magnetic Snap-In Door Gaskets
- 9' Cord & Plug Attached
- Set Of Four (4) 6" High Casters
- Three Year Parts And Labor Warranty
- Five Year Compressor Warranty



This unit is listed to UL 471, CSA 120 and NSF 7 by an approved NRTL. Consult the factory or unit data plate for approval information.

Approval: _____



Project

Quantity

Item #

Model Specified:

CSI Section 11400

Specifications

Construction, Hardware and Insulation

Cabinet exterior, including front, one piece sides, louver assembly and doors are constructed of heavy gauge stainless steel. Cabinet interior and door liners are constructed of stainless steel. Exterior cabinet top, back and bottom are constructed of heavy gauge aluminized steel. A set of four (4) adjustable 6" high casters are included.

Doors are equipped with removable plug cylinder locks and guaranteed for life cam-lift, gravity action, self-closing metal, glide hinges with stay open feature at 120 degrees. Guaranteed for life, work flow door handle is mounted horizontally over recess in door which limits protrusion from door face into aiseways.

Easily removable for cleaning, magnetic door gasket assures tight door seal. Anti condensate heaters are located behind each door opening.

Cabinet and door contains high density, non-CFC, foamed in place polyurethane insulation.

Refrigeration System

A top mounted, self-contained, balanced refrigeration system using R-404A refrigerant is conveniently located behind the one piece louver assembly. It features a plenum effect blower coil, large, high humidity evaporator coil located outside the food zone, and a top mounted non-electric condensate evaporator. Heaters and fans mounted in the mullion facilitate the Even-Thaw process. Standard operating temperature is 37 to 41°F.

Interior

Standard interior arrangements include twenty eight (28) #1 tray slides 4" O.C., fourteen per section. Each pair of tray slides can accommodate either: (1) 18" x 26" or (2) 14" x 18" pans.

Warranties

Both a three year parts and labor warranty and a five year compressor warranty (self-contained models only) are provided standard.

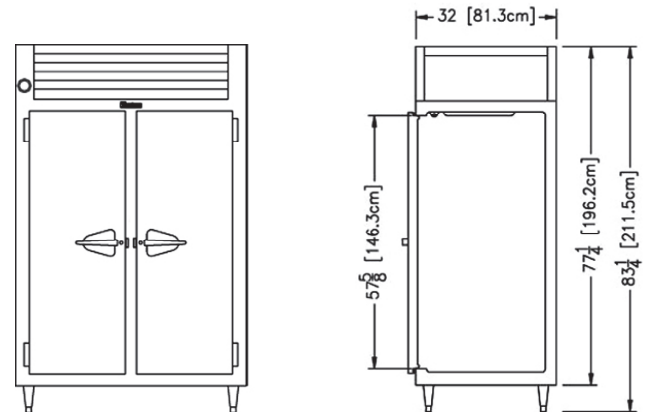
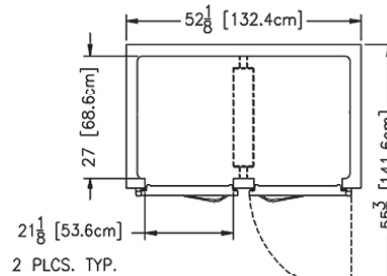
DIMENSIONAL DATA	RE232N-ZCF02
Net capacity cu. ft.	46.0 (1303 cu l)
Length - overall in.	52 $\frac{1}{8}$ (132.4 cm)
Depth - overall in.	35 (88.8 cm)
Depth - over body in.	32 (81.3 cm)
Depth - with door open 90 degrees in.	55 $\frac{3}{4}$ (141.6 cm)
Clear door width in.	21 $\frac{1}{8}$ (53.6 cm)
Clear full-door height in.	57 $\frac{7}{8}$ (146.3 cm)
Height - overall on 6" casters	83 $\frac{1}{4}$ (211.5 cm)
Pan Capacity - 18" x 26"	28
Pan Capacity - 14" x 18"	56
Net Wt. lbs.	560 (254 kg)
ELECTRICAL DATA	
Voltage	115/60/1
Feed wires with Ground	3
Full load amperes	16.0
REFRIGERATION DATA	
Refrigerant	R-404A
BTU/HR H.P. ²	4880 (1/2 HP)

NOTES

NOTE: Figures in parentheses reflect metric equivalents.

1= Wattage is determined by listed amps X listed volts X an average run time of 70% for refrigerators and 80% for freezers.

2= Based on a 90 degree F ambient and 20 degree F evaporator.



Uses One NEMA 5-20 P Plug

Full load amps and plug style may vary depending on electrical options chosen and condensing unit employed.

REQUIRED CLEARANCES

In order to assure optimum performance, the condensing unit MUST have an adequate supply of air for cooling purposes. Therefore, the operating location must either have a minimum of 12" clearance overhead of the condensing unit or allow for unrestricted air flow at the back of the unit. Clearance of at least 12" above is required in order to perform certain maintenance tasks.

NOTE: When ordering please specify: Voltage, Hinging, Door Size and Options.

Continued product development may necessitate specification changes without notice.

TRAUlsen
4401 BLUE MOUND RD.
PHONE 1 (800) 825-8220
Website: www.traulsen.com

FT. WORTH, TX 76106
FAX-MKTG. 1 (817) 624-4302

Traulsen



SPECIFICATION SHEET

ITEM # 500A

ITEM DESCRIPTION: VERTICAL CONTACT TOASTER

MANUFACTURER: ROUNDUP MODEL #VCT-2

ELECTRICAL SPECIFICATIONS:

VOLT:	120
PH:	1
KW:	1.8
AMP:	15
HP:	
NEMA RATING:	5-15P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	
IW:	
TW:	
GAS SIZE:	
GAS AFF:	
GAS MBTU:	

REMARKS:

ISSUE DATE:

10/6/2020

ITEM # 500A

Vertical Contact Toaster | VCT



VCT-2

For more than 25 years, the Vertical Contact Toaster has been a staple in foodservice operations, building a reputation for quality, performance, and reliability throughout the world. With space at a premium, the Vertical Contact Toaster has been repackaged into a compact design that frees up valuable space without compromising on quality or performance.

The new VCT-2 features the smallest footprint of our entire line of Vertical Contact Toasters—60% smaller than the standard unit. The individual heel and crown compression settings and digital controller ensure operators can quickly achieve the desired toast quality on a variety of different bread products.

With its dual-sided platen, two toasting lanes, and fast 12-second toast time, the new VCT-2 can quickly serve fresh products to customers without making them wait. The end result is a toasted bun with a better taste and better finish for a hotter sandwich.

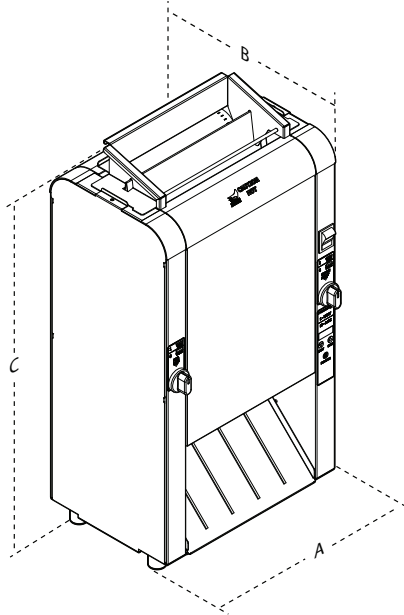
The small footprint allows operations to pair both the VCT-2 and RT-2 radiant toaster in the space occupied by the previous single toaster, providing operations with more toasting capacity without reconfiguring the prep line.

FEATURES

- Toasts two buns (heel and crown) simultaneously for increased capacity.
- Toasts product in 12 seconds (± 2 seconds).
- Digital controller for adjusting toast settings for a variety of different bread products.
- Small footprint saves valuable countertop space.
- Individual heel and crown compression.
- Toasts multiple products, including white and wheat buns and wheatberry bread.
- Easy maintenance.
- Belt wraps eliminate bun marking.
- Vertical design for easy loading.

Vertical Contact Toaster | VCT

Dimensions



Model & Mfg. No.	Width (A)	Depth (B)	Height (C)
VCT-2 9210905	13" (330 mm)	10" (254 mm)	25 1/2" (648 mm)

Electrical Ratings and Plug Configuration

Model & Mfg. No.	Volts	Watts	Amps	Hertz	Plug Description
VCT-2 9210905	120	1800	15	50/60	NEMA 5-15P 120 Volt, 15 Amp. Non-Locking

Specifications

Toasting Time: 12 seconds (± 2 seconds)

Temperature Control: Solid State with Display

Power Cord: Six-foot grounded power cord supplied

Warranty: One year parts and labor warranty and second year parts only warranty for the drive motor, control board, and platen heater

P/N 1020453 Rev. B 04/16



SPECIFICATION SHEET

ITEM # 505Va

ITEM DESCRIPTION: VECTOR OVEN STACKING KIT

MANUFACTURER: ALTO-SHAAM MODEL #5026452

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

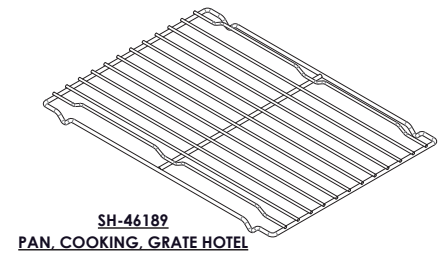
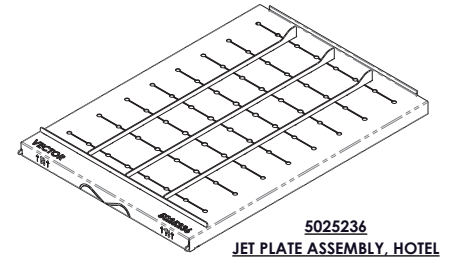
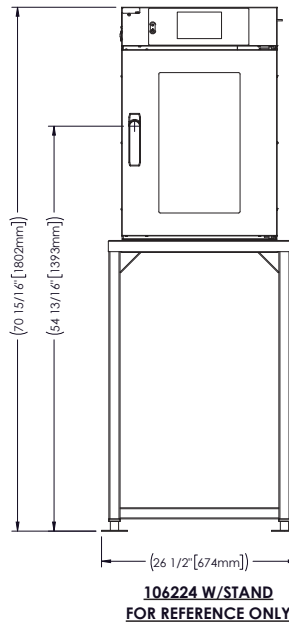
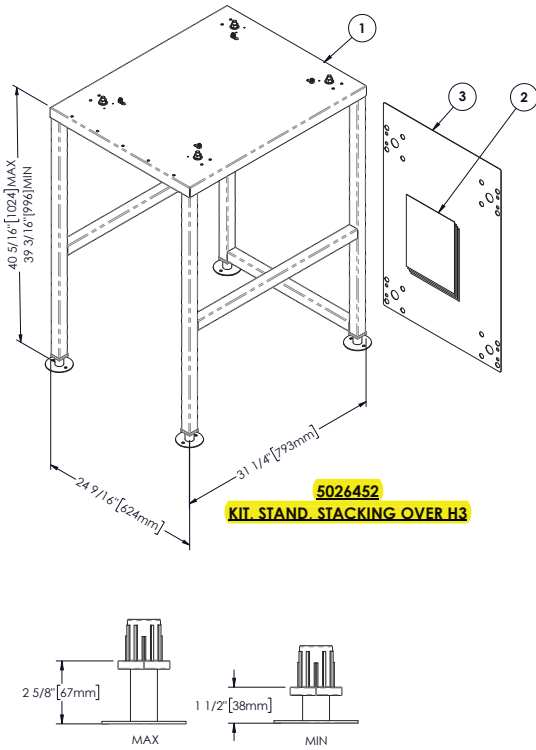
VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
TW: _____
GAS SIZE: _____
GAS AFF: _____
GAS MBTU: _____

REMARKS:

ISSUE DATE:
9/17/2020

ITEM # 505Va



ITEM	PART NUMBER	DESCRIPTION	QTY
1	5027834	STAND, STACKING, OVER H3/H3H	1
2	SRV-20136	SERVICE DOC, VMC-H STACKING KIT	1
3	GS-46011	GASKET, VECTOR BASE	1

SEE DETAILS N/A FABRICATED ± 0.020" WELDED ± 0.040" MACHINED ± 0.010" HOLE DIA ± 0.010" ANGULAR ± 1.0°	PROJECT: 731127 DT: NJH DATE: 12 Apr 2019 DWG: 1188.05 ELECTRIC DRAWING DO NOT SCALE	ALTO-SHAAM MENOMONEE FALLS, WI 53052-0450 U.S.A. The information contained in this drawing is the sole property of Alto-Shaam, Inc. Any reproduction in part or whole without the written permission of Alto-Shaam, Inc is prohibited.	TITLE: TOP LEVEL SPECIFICATION VMC-H3H CHICK-FIL-A VHS_CFA_TOP-LEVEL	REVISION: 0 SHEET: 6 of 6
--	--	---	--	------------------------------



SPECIFICATION SHEET

ITEM # 505VL

ITEM DESCRIPTION: VECTOR OVEN

MANUFACTURER: ALTO-SHAAM MODEL #VMC-H3H 106226

ELECTRICAL SPECIFICATIONS:

VOLT:	208
PH:	3
KW:	7.9
AMP:	22
HP:	
NEMA RATING:	15-30P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	
IW:	
TW:	
GAS SIZE:	
GAS AFF:	
GAS MBTU:	

REMARKS:

HINGE LEFT

ISSUE DATE:

10/2/2020

ITEM # 505VL

UNIT VARIATIONS			
NUMBER	DOOR SWING	VOLTAGE, PLUG TYPE	SHEET
SKU 106226	LEFT HAND	208-240V 3PH, W/ STANDARD PLUG	2
SKU 106224	RIGHT HAND	208-240V 3PH, W/ STANDARD PLUG	3
SKU 106228	LEFT HAND	208-240V 3PH, W/ LOCKING PLUG	4
SKU 106229	RIGHT HAND	208-240V 3PH, W/ LOCKING PLUG	5

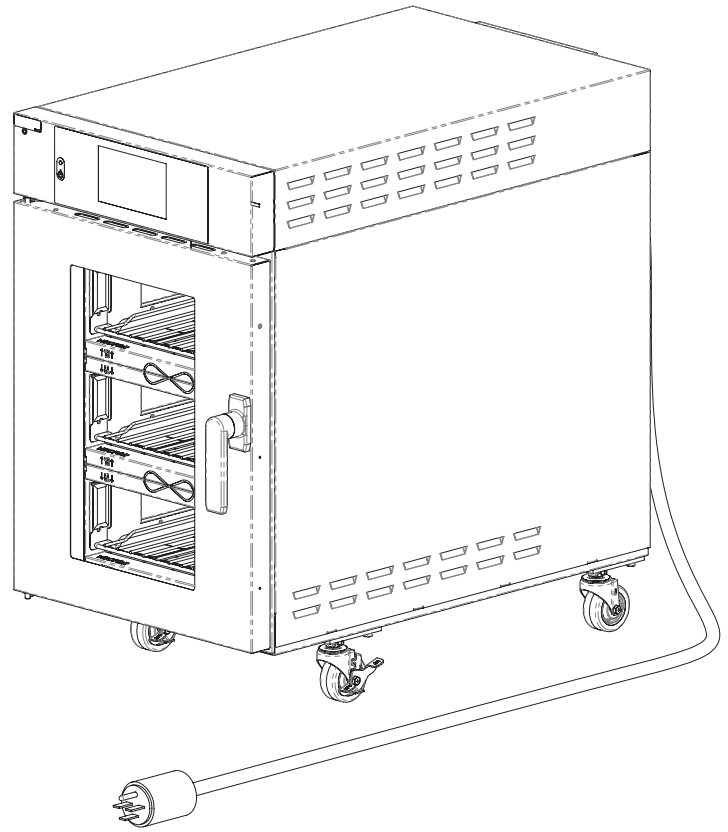
ACCESSORIES		
PART NUMBER	DESCRIPTION	SHEET
5026452	STAINLESS STEEL STAND	6
SH-46189	STAINLESS STEEL WIRE RACK	
5025236	JET PLATE	

SHIP DIMENSIONS (L x W x H)*	SHIP WEIGHT*
56" x 45" x 51" (1422mm x 1143mm x 1295mm)	445 lb (202 kg)

*Domestic ground shipping information. Contact factory for export weight and dimensions.

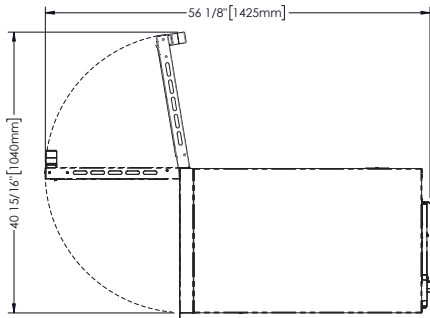
CLEARANCE DIMENSIONS	
TOP	2" (51mm)
LEFT	2" (51mm)
RIGHT	2" (51mm)
BACK	2" (51mm)

REFERENCE DOCUMENTS	
PART NUMBER	DESCRIPTION
MN-39765	OPERATORS MANUAL
MN-46387	SERVICE MANUAL
MN-38979	PARTS MANUAL
77728	CFA WIRE DIAGRAM
51597	CRITICAL COMPONENTS LIST
51598	WI-FI OUTPUT LISTING
51599	COST OF OWNERHSIP REPORT
51600	SERVICE CALL PERFORMANCE REPORT

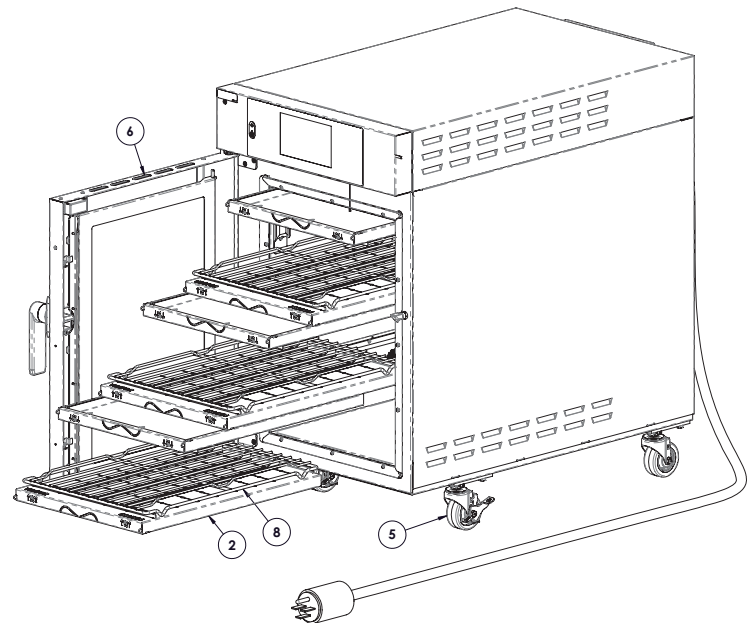
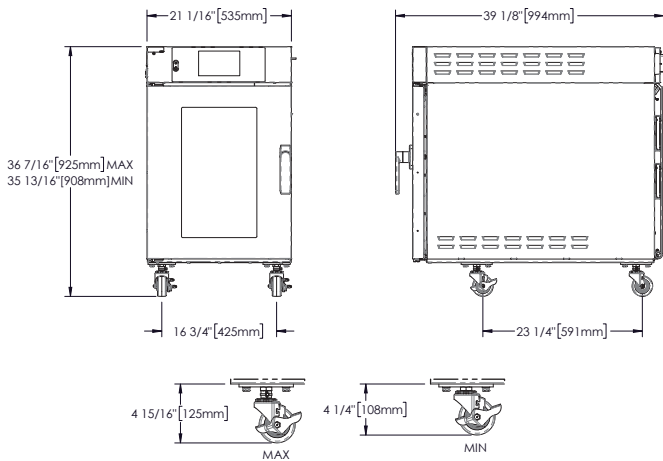


REV	ECO	DESCRIPTION	DATE	APP
0		NEW RELEASE	05 Jun 2019	SAG
-	-	-	-	-

SEE DETAILS N/A		PROJECT: 731127	MENOMONEE FALLS, WI 53052-0450 U.S.A.	
TOLERANCES UNLESS SPECIFIED: FABRICATED ± 0.020" WELDED ± 0.040" MACHINED ± 0.010" HOLE DIA ± 0.010" ANGULAR ± 1.0°		DWG: NJH 731127	ALTO-SHAAM	
		DATE: 12 Apr 2019	TOP LEVEL SPECIFICATION	
		DWG: 1188.05	VMC-H3H CHICK-FIL-A	
		ELECTRIC DRAWING DO NOT SCALE	REV: B	VH3_CFA_TOP-LEVEL
			SHEET	1 of 6



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	5024303	LABEL PKG, ANSI, DOMESTIC	1
2	5025236	JET PLATE ASSEMBLY, HOTEL	6
3	5026361	ELEC. ASM, H3-VMC, 208-240V, 3PH	1
4	5026392	CAVITY ASSY	1
5	5027932	SWIVEL CASTER ASSEMBLY 3X1-1	1
6	5028117	DOOR ASSY	1
7	5028146	ASSY, PACKAGING/SHIPPING	1
8	SH-46189	PAN, COOKING, GRATE HOTEL	3



ELECTRIC

	V	Ph	Hz	AWG	A	Breaker*	kW	Plug Configuration**
VMC-H3H	208-240	3	60	10	22-25	30	7.9-10.3	NEMA 15-30P

* Electrical connections must meet all applicable federal, state, and local codes.
 ** No cord, no plug in Canada.

MAXIMUM SPEED/ROTATION: SEE DETAILS N/A	PROJECT: 731127 DATE: 12 Apr 2019	ALTO-SHAAM TOP LEVEL SPECIFICATION VMC-H3H CHICK-FIL-A	MENOMONEE FALLS, WI 53052-0450 U.S.A. This information contained in this drawing is the sole property of Alto-Shaam, Inc. Any reproduction in part or whole without the written consent of Alto-Shaam, Inc. is prohibited.
TOLERANCE UNLESS SPECIFIED: FABRICATED ± 0.020" WELDED ± 0.060" MACHINED ± 0.010" HOLE DIA ± 0.010" ANGULAR ± 1.0°	FILE:	REVISION: 0	
PART # 106226	DWG: VH3 CFA TOP-LEVEL	SHEET 2 of 6	



SPECIFICATION SHEET

ITEM # 522L

ITEM DESCRIPTION: OPEN FRYER

MANUFACTURER: HENNY PENNY

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: SEE BELOW
PH: SEE BELOW
KW: SEE BELOW
AMP: SEE BELOW
HP: SEE BELOW
NEMA RATING: SEE BELOW

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

See Equipment Schedule for Specification:

Table with 4 columns: Model No., 208V Single Well, 480V Single Well, Double Well (per well). Rows include Voltage, PH, KW, AMP, Direct / Plug, and NEMA Rating.

ORDER WITH HARDWIRED CORD KIT 3PSE003 AND INSTALLATION KIT 3MED010

ISSUE DATE:

11/26/2018

ITEM # 522L

PROJECT	QUANTITY	ITEM NO
---------	----------	---------

Open Fryers



- OFE 321** 1-well electric
- OFE 322** 2-well electric
- OFE 323** 3-well electric



OFE 322 2-well electric open fryer with split vats and Computron™ 1000 control

Henny Penny open fryers offer high-volume, integral multi-well frying with programmable operation, oil management functions and fast, easy filtration.

The OFE 320 series open fryers are available in 1, 2, or 3-well, full and split vat configurations. Split vats in a multi-well fryer give you the flexibility to fry smaller batches of different products in separate environments at the same time—a great way to multiply your profits with one fryer.

Henny Penny electric open fryers recover temperature very quickly, and have earned the ENERGY STAR® mark for energy efficiency. Fast recovery translates into higher throughput, lower energy costs and longer frying oil life.

Heavy duty stainless steel vats come with a 7-year warranty—the best in the business.

Henny Penny open fryers have a built-in filtration system that filters and returns hot frying oil in minutes. No separate pumps and pans, no handling hot oil. Frequent filtering extends frying oil life, improves product quality and reduces oil costs.

The Computron™ 8000 control features automatic, programmable operation, as well as energy-saving, filtration and cook management functions.

The Computron™ 1000 control offers programmability in a simple, easy to use digital control panel with LED display.

Standard Features

- Heavy-duty stainless steel vats with 7-year warranty
- Full vat, split vat or combination
 - All full split
 - Left well full split
 - Middle well full split
 - Right well full split
- High-efficiency heating elements generate fast recovery and energy savings
- Cold zone below heating elements helps extend oil life
- High-limit temperature protection
- Built-in filtration system
 - Single vat/sequential filter pan
 - 2 or 3-vat filter pan
- Easy basket set and release
- Stainless steel construction for easy-cleaning and long life
- 4 heavy-duty casters, 2 locking
- Computron™ 8000 control (additional charge)
 - 12 programmable cook cycles
 - Melt mode
 - Idle mode
 - Clean-out mode
 - Water detection alert
 - Load compensation
 - Proportional control
 - Optional filter prompt and customizable filter tracking
 - 16-character digital display with multiple language settings
- Computron™ 1000 control
 - Programmable
 - LED Time/Temp display
 - Simple UP/DOWN arrows

Accessories shipped with unit

- Fry baskets—please select one
 - 1 full basket per well
 - 2 half baskets per well
- 1 basket support for each vat
- Max filter screen and filter envelope

Options available separately

- Direct Connect shortening disposal
- Fryer Shortening Shuttle®
- Filter rinse hose
- Fry well covers

<input type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVED AS NOTED	<input type="checkbox"/> RESUBMIT
AUTHORIZED SIGNATURE		DATE

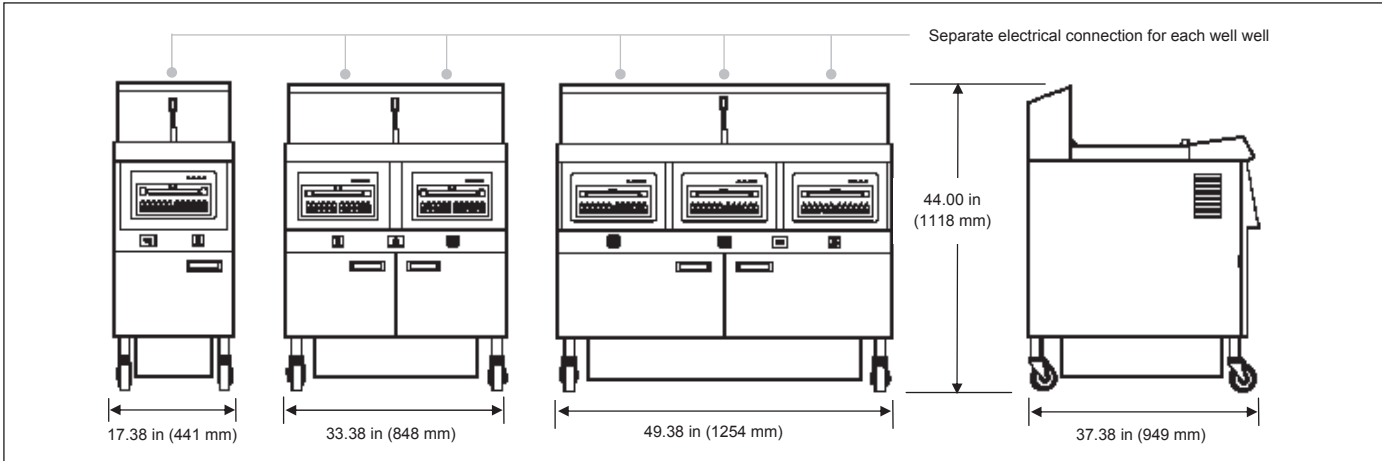


PROJECT

ITEM NO

Open Fryers

OFE 321 1-well electric
OFE 322 2-well electric
OFE 323 3-well electric



	OFE 321	OFE 322	OFE 323
Dimensions			
Width	17.38 in (441 mm)	33.38 in (848 mm)	49.38 in (1254 mm)
Depth	37.38 in (949 mm)	37.38 in (949 mm)	37.38 in (949 mm)
Height	44.00 in (1118 mm)	44.00 in (1118 mm)	44.00 in (1118 mm)
Crated			
Length	40 in (1016 mm)	40 in (1016 mm)	55 in (1397 mm)
Depth	25 in (635 mm)	39 in (991 mm)	39 in (991 mm)
Height	53 in (1346 mm)	54 in (1372 mm)	54 in (1372 mm)
Volume	31 ft ³ (0.86 m ³)	49 ft ³ (1.4 m ³)	67 ft ³ (1.9 m ³)
Weight	281 lb (128 kg)	407 lb (185 kg)	523 lb (237 kg)

Heating immersed elements

Output	14.4 kW total	28.8 kW total	43.2 kW total
--------	---------------	---------------	---------------

Oil capacity

Per full vat	65 lb or 30 L
Per split vat	25 lb or 12 L

Electrical

Volts	Phase	Hertz	kW per well	Amps per well full	Amps per well split	Wire*
208	3	60	14.4	39.4	38.9	3+G
220-240	3	50/60	14.4	34.2		3+G
240	3	60	14.4	24.3	33.7	3+G
380-415	3	50/60	14.4	24.3		3NG
400	3	50-60	14.4	24.3	20.4	3NG
480	3	60	14.4	17.0		3+G

See Specification sheet above for Chick-fil-A proprietary equipment electrical requirements.

Laboratory certifications



*Separate electrical connection required for each well. Power cord and plug must be installed on site by a qualified electrician.

Continuing product improvement may subject specifications to change without notice.

24 Hour Technical Support:
 Henny Penny Technical Service
 800 417.8405
technicalservices@hennypenny.com

Henny Penny Corporation
 PO Box 60 Eaton OH 45320 USA
 +1 937 456.8400 800 417.8417
 +1 937 456.8434 Fax 800 417.8434 Fax
www.hennypenny.com

HENNY PENNY
 Engineered to Last



SPECIFICATION SHEET

ITEM # 523

ITEM DESCRIPTION: PRESSURE FRYER

MANUFACTURER: HENNY PENNY MODEL #PFE-500

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 208
PH: 3
KW: 13.5
AMP: 38
HP:
NEMA RATING: NEMA 15-50R

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

SUPPLIED WITH 6' SO CORD & PLUG

ISSUE DATE:

2/2/2016

ITEM # 523

Pressure Fryers

PFE-500 Electric pressure fryer
PFE-500 with Computron 8000™ control module

Pressure fryers use controlled low pressure for faster cooking at lower temperatures. This method seals in the food's moisture and natural juices while sealing out excess shortening for healthier, better-tasting, hot fresh food.

Description

Henny Penny pressure fryers represent one of the most profitable, efficient and space-saving methods of high-volume cooking.

- The PFE-500 cooks up to 14 lbs. (6.3 kg) of food per load from five square feet of floor space.
- Choose Computron 8000™ control option for programmable operation.
- Built-in filtration system extends shortening life at optimal levels.

Optional Computron 8000™ control

- Large 16-character digital display with multiple language settings.
- Automatic or manual idle, melt cycles.
- 10 programmable cook cycles.
- Automatic load compensation.
- Programmable on/off pressure.
- Optional filter enforcement.
- Temperature display in °F or °C.
- Cook Cycle Usage Summary.
- Programmable user password.
- Daily statistics for past 7 days.
- Monitors amps supplied to heating elements.

Main Features

- Standard electro-mechanical control with easy to use temperature and timer controls.
- Stainless steel rectangular fry pot promotes more even cooking.
- Built-in filtration system.



Above: Computron 8000™ control

Right: PFE-500 pressure fryer with standard control



- Cast aluminum alloy lid.
- Heavy-duty lid hinge, spring and front lid latch.
- Color keyed locking spindle engages pressure seal.
- Patented design keeps lid locked until pressure drops to 1 psi.
- Automatic pressure release valve.
- Baffled exhaust stack.
- Channel underneath lid directs condensation away from hot shortening when lid is raised.
- Raised edge on fryer top catches spills.
- Cook cycle completion signal.

Accessories shipped with unit:

Choice of start-up filter media:

- (6) SUPERSORB® filter pads OR
- (5) Carbon pad filter envelopes OR
- (5) Non-woven carbon filter envelopes OR
- (5) PHT filter envelopes

- (1) Set of cleaning brushes
- (1) Tube of molycolite lube
- (1) Installation and operating manual

Options available separately:

- Heavy duty casters (2 locking)
- Filter pan dolly
- Rinse hose attachment
- Full size basket and handle
- 4-tier stainless steel basket and handle

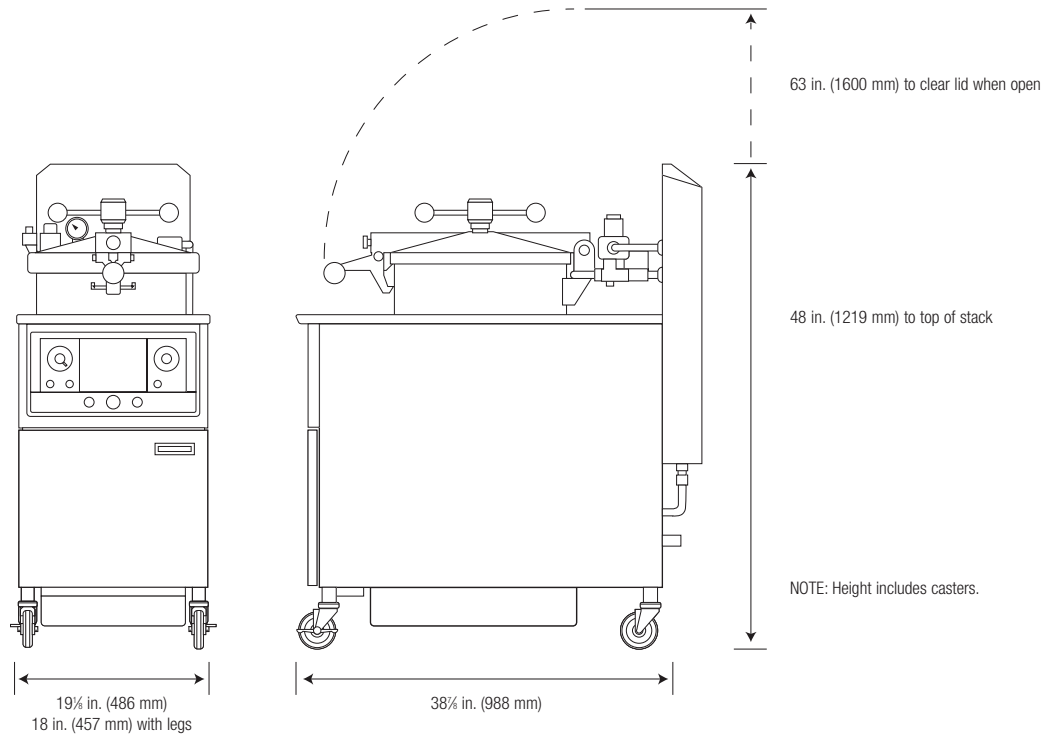
Henny Penny Corporation
P.O. Box 60
Eaton, OH 45320

+1 937 456.8400
+1 937 456.8434 Fax

Toll free in USA
800 417.8417
800 417.8434 Fax

www.hennypenny.com

PFE-500 Specifications



Dimensions

Clearances

Floor Space

Capacity

Product
Shortening

Heating Format

Pressure

Shipping Weight

Shipping Cube Dimensions

Listings

Electrical

Sides and back: 6 in. (152 mm)

5 sq.ft. (.46 m²)

14 lbs. (6.3 kg)
48 lbs. (21.7 kg)

Electric immersion: three heating elements, 3750W each (11.25 kW total) or 4500W each (13.5 kW total)

Operating pressure: 12 psi. Safety valve setting: 14.5 psi.

325 lbs. (147 kg)

L x W x H: 44½ x 21¾ x 56 in. (1.13 x 0.55 x 1.42 m)

UL, CUL, UL Sanitation, CE

Voltage	Phase	Cycle/Hz	Amps		Wire
			11250W	13500W	
190-208	1	50 or 60	54.0	65.0	2+G
190-208	3	50 or 60	32.0	38.0	3+G
208	1	60	54.0	65.0	2+G
208	3	60	32.0	38.0	3+G
220-240	1	50 or 60	52.0	58.0	2+G
220-240	3	50 or 60	30.0	33.0	3+G
220/380	3	50 or 60	17.1	20.5	4+G
240/415	3	50 or 60	18.6	18.8	4+G
380-415	3	50	17.1	18.8	3NG
480	3	60	14.0	16.0	3+G

Optional power cord and plug can be supplied for 3 phase 208V and 220-240V units, only.

Plug type:
NEMA 15-50P



Specifications subject to change without notice.
For up-to-date product information, please visit
www.hennypenny.com.

Order from:

Manufactured by:

Henny Penny Corporation

P.O. Box 60
Eaton, OH 45320



SPECIFICATION SHEET

ITEM # 524

ITEM DESCRIPTION: DUAL SIDE CLAMSHELL GRILL

MANUFACTURER: GARLAND MODEL #CXPB12

ELECTRICAL SPECIFICATIONS:

VOLT: 208
PH: 3
KW: 9
AMP: 24.1/28.2/23.1
HP:
NEMA RATING: 15-50P

PLUMBING SPECIFICATIONS:

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

PROVIDED WITH 5' CORD AND PLUG

ISSUE DATE:

5/4/2018

ITEM # 524

Electric Dual Side Clamshell Grill

Models:

 CXPB12

 Accessory Kit - 4602789


Standard Features:

Flexibility

- Grill to be available in 12.5" (31.75cm) 1 platen
- Supports future menu and capacity needs

Ease of Use

- New touch-screen design, utilizing intuitive Press and Go interface
- USB interface
- WIFI capable
- Grill comes with advanced diagnostics

Ease of Cleaning

- cuts cleaning time in half when compared to CXBE12-1 grill

Reliability

- New stronger chassis design added to longer life components
- Comes with cord and plug NEMA 15-50P

Electric Dual Side Clamshell Grill

Specifications:

The Grill's upper and lower grill plates cook both sides simultaneously. Upper grill plate is automatically raised and lowered by a lift system powered by a quiet actuator.

The grill is available in 208V - 240V, 3 phase, 60 Hz.

CSA models are approved for use on 50 amp circuit.

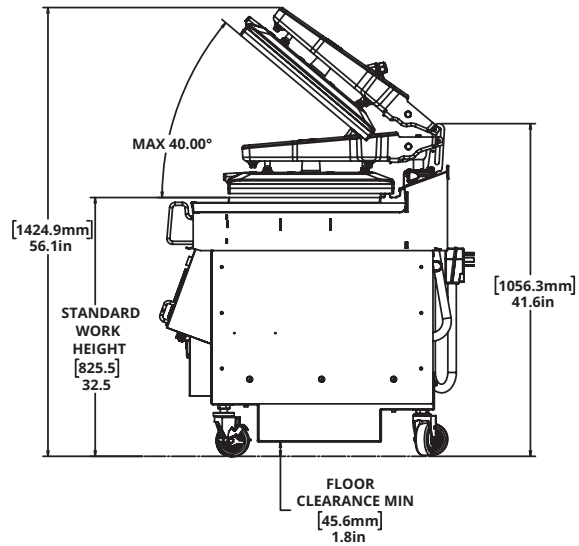
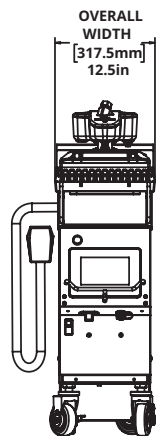
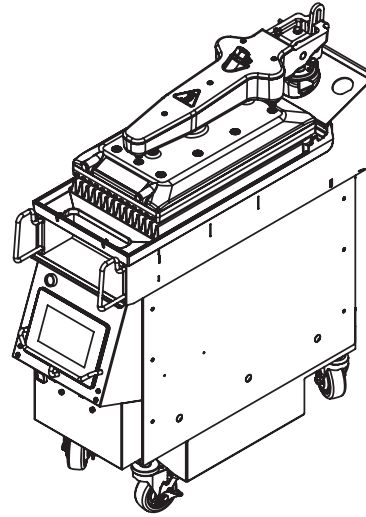
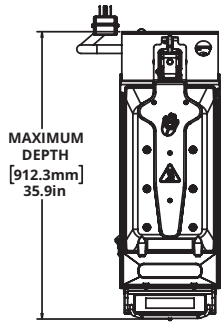
All have NSF and CSA approval.

Installation with zero clearance against non-combustible surfaces.

2 year parts and labor warranty except shaft seals which are 1 year warranty only.



Electric Dual Side Clamshell Grill



CRATED VOLUME CU.FT.	Ship Weight lbs. / kg.
34.2	545/247

ELECTRICAL SPECIFICATIONS,
MODEL: CXPB12 (USA/CANADA, 208V - 240V AND 220V)

Voltage	200V	208V	220V	230V	240V
Current L1(A)	23.2	24.1	23.2	23.4	22.5
Current L1(A)	27.1	28.2	26.6	26.5	24.9
Current L1(A)	22.2	23.1	22.0	22.0	20.9
Total Power (kW)	8.3	9.0	8.8	9.2	9.0

Form# 6415_CXPB12 (08/30/17)



SPECIFICATION SHEET

ITEM # 560

ITEM DESCRIPTION: FRY HOLDING STATION

MANUFACTURER: BKI MODEL #FW-15BB (312007F)

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

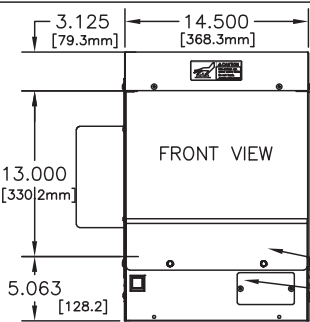
VOLT:	_____	120	_____
PH:	_____	1	_____
KW:	_____	1.9	_____
AMP:	_____	15.4	_____
HP:	_____		_____
NEMA RATING:	_____	5-20P	_____

HW:	_____
CW:	_____
FW:	_____
FW2:	_____
IW:	_____
TW:	_____
GAS SIZE:	_____
GAS AFF:	_____
GAS MBTU:	_____

REMARKS:

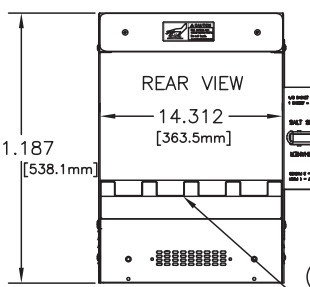
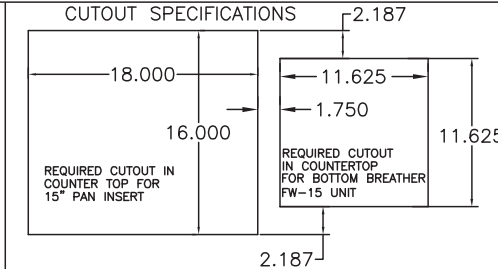
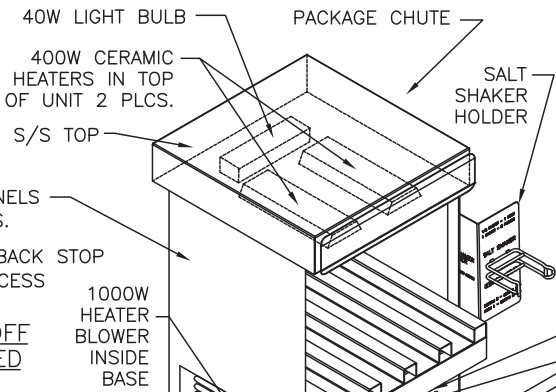
ISSUE DATE:
10/13/2020

ITEM # 560



FW ELECTRICAL

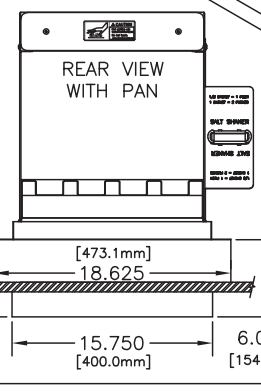
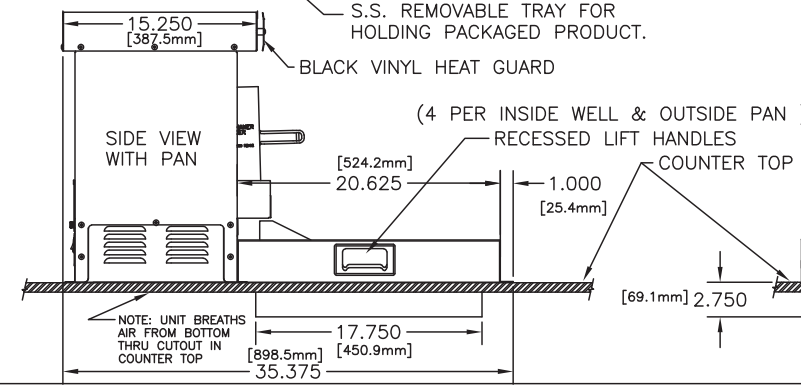
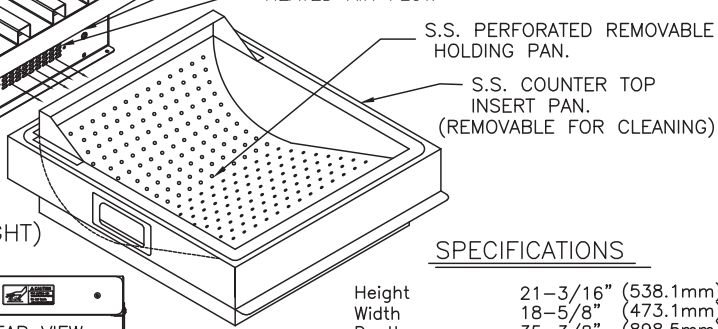
VOLTS: 120
 AMPS: 15.4
 BREAKER: 20
 KW: 1.9
 WIRES: 2
 PHASE: 1



AUXILIARY ON/OFF SWITCH REQUIRED

NOTE: MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT. HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF S/S PERFORATED PAN. CUTOUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE.

(NOTE: SEE CUTOUT SPECIFICATIONS ABOVE RIGHT)



SPECIFICATIONS

Height	21-3/16" (538.1mm)
Width	18-5/8" (473.1mm)
Depth	35-3/8" (898.5mm)
Counter Space	4.58 sq.ft. (.43 m ²)
Shipping Weight	70 lbs. (31.8 kg)
Shipping Cube	7.07 cu.ft. (.2 m ³)

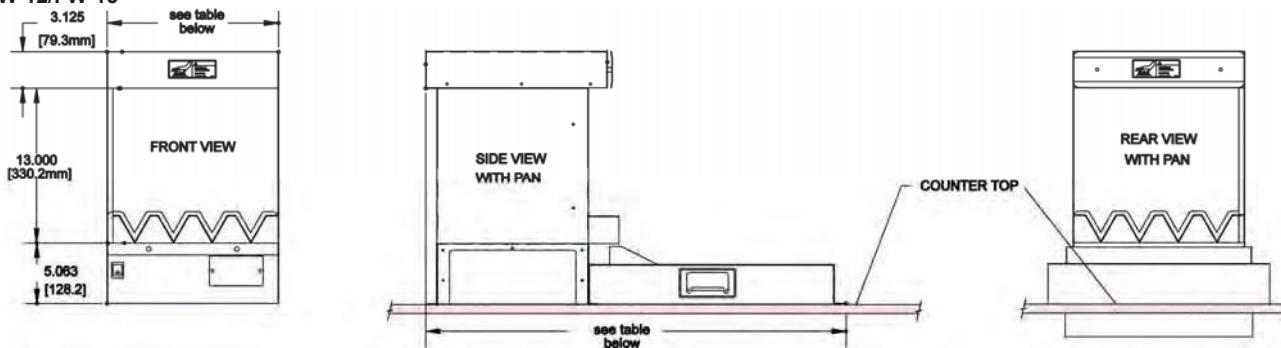


TITLE FW-15BB PASS-THRU BOTTOM-BREATHER FRY-WARMER			
PRODUCT CODE# 312007F		APPROVED BY	
MAT'L.		R. NEELY	
SCALE	DATE	TYPE SIZE	DRAWING NUMBER
.125=1	2/13/04	. B .	

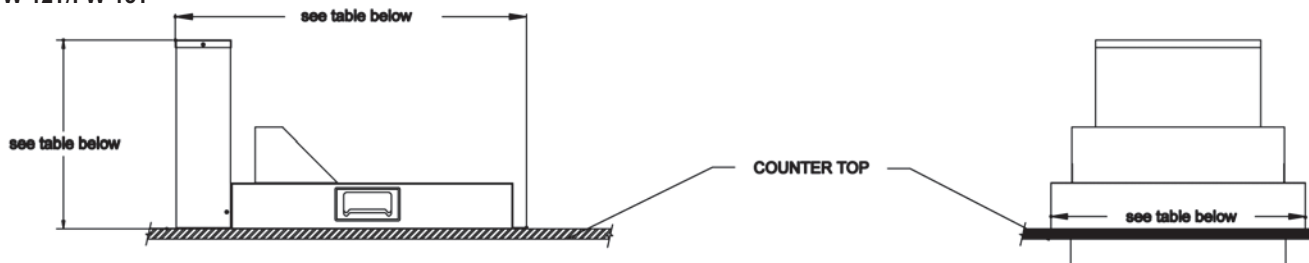
Fry Warmer (FW-12, FW-15, FW-12T, FW-15T)

Equipment Dimensions:

FW-12/FW-15



FW-12T/FW-15T



Mechanical Specifications:

	Height	Width	Depth	Counter Space	Weight
FW-12	21 1/8" (536.2 mm)	14.5" (368.1 mm)	37 3/8" (949.3 mm)	3.79 sq. ft. (.35 sq. m)	70 lbs. (31.8 kg.)
FW-15	21 1/8" (536.2 mm)	18 5/8" (473.1 mm)	35 3/8" (898.5 mm)	4.58 sq. ft. (.43 sq. m)	70 lbs. (31.8 kg.)
FW-12T	11 7/8" (301.6 mm)	14.5" (368.1 mm)	26" (660 mm)	2.61 sq. ft. (.24sq. m)	?
FW-15T	11 7/8" (301.6 mm)	18 5/8" (473.1 mm)	26" (660 mm)	3.36 sq. ft. (.31 mm)	?

Electrical Options:

Model	Volts	Amps	Breaker	KW	Wires	Phase
FW-12/FW-15	120	15.4	20	1.84	2	1
	220	8.8	15	1.84	2	1
FW-12T/FW-15T	120	8.3	15	1	2	1

Model Options

Mounting	FW-12		FW-15		FW-12T	FW-15T
	Pass-Thru	Solid Back	Pass-Thru	Solid Back		
Countertop	✓	✓	✓	✓	✓	
In-Counter			✓	✓		✓

Accessories

	FW-12		FW-15		FW-15T
	In-Counter	Countertop	In-Counter	Countertop	
Counter Top Collar Weldment w Liner Pan Attached (WB31216000)			✓		
Counter Top Collar Weldment wo Liner Pan Attached (WB31211900)			✓		
Counter Top Collar Weldment FW Tower w/Pan Liner (WB31217700)					✓
FW Heater Motor Assembly (AN3121460S)					✓
Table Top Adapter (WN31206400)	✓	✓			
Table Top Adapter (WN31206500)			✓	✓	

BKI North America
 PO Box 80400
 Simpsonville, SC 29680-0400 USA
 Telephone: (864) 963-3471
 Toll Free: (800) 927-6887

BKI Europe
 Theale Technology Centre
 Station Road • Theale
 Reading • West Berkshire • RG7 4AA
 Telephone: 0870 9904242 • Fax: 0870 9904243





SPECIFICATION SHEET

ITEM # 560a

ITEM DESCRIPTION: FRY CARTON DISPENSER ASSEMBLY

MANUFACTURER: SAN JAMAR MODEL #WFD210 AND #WFD230

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT

ISSUE DATE:
6/18/2020

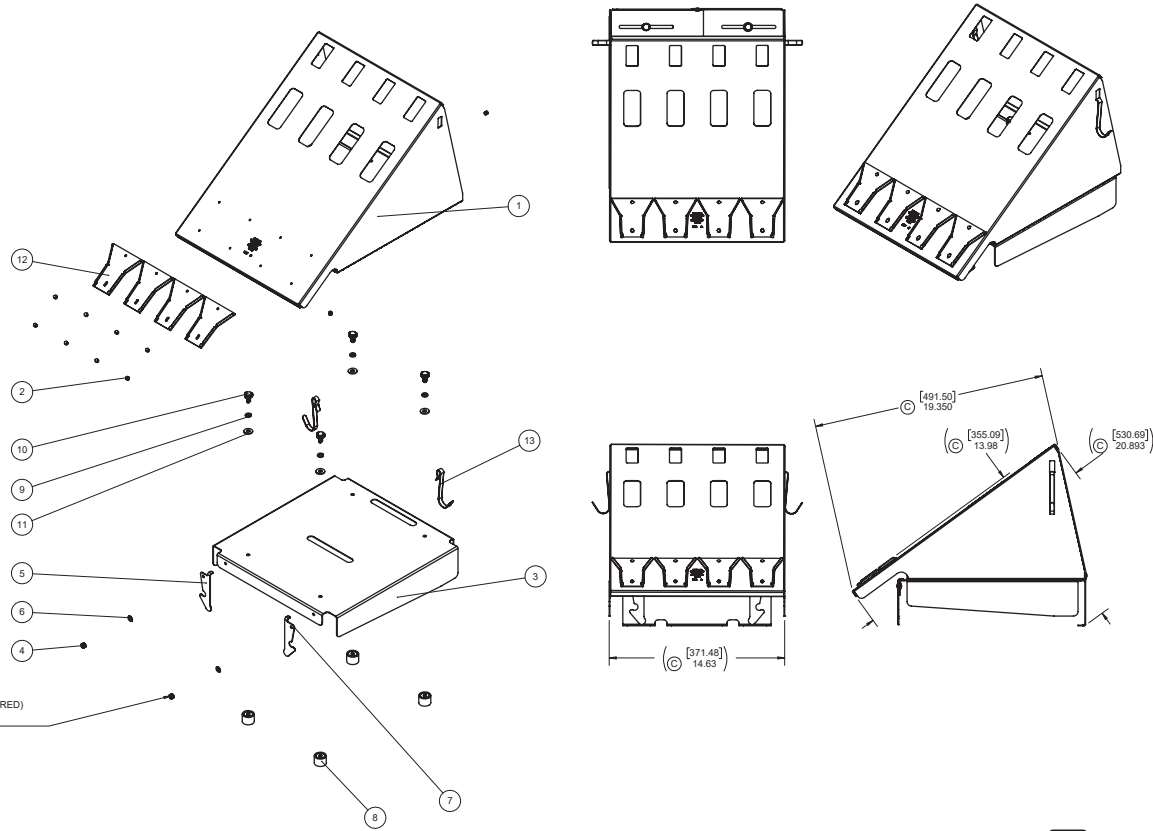
ITEM # 560a

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	104526	CFA FRY CUP DISPENSER RACK	1
2	104222	SS Blind Rivet, 1/8 Dia, 0.275 L	10
3	104527	CFA FRY CUP DISPENSER PLATFORM	1
4	104570	SS Binding Barrel and Screw 8-32, for 0.1875"-0.250" THK	2
5	104569L	FRONT HOOK (LEFT)	1
6	104571	18-8 SS Washer, 0.265" ID, 0.500" OD, .032" THK	2
7	104569R	FRONT HOOK (RIGHT)	1
8	104565	CFA FRY CUP DISP PLATFORM BUMPER McMASTER 89287230	4
9	104568	18-8 SS Split Lock Washer, 0.260" ID, .487" OD	4
10	104566	SS Flared-Collar Knurled-Head Thumb Screw, 1/4"-20 1/2" L	4
11	104567	18-8 SS Washer, 0.312" ID, 0.734" OD, .065" THK	4
12	104564	Y-BRACKET, CFA FRY DISPENSER	4
13	104611	SIDE RACK HOOK, METRO HK23C	2

NOTES:

- THIS ENGINEERING BILL OF MATERIAL IS A BASELINE BILL OF MATERIAL THAT DOES NOT TAKE INTO ACCOUNT THE COLORATION OF INDIVIDUAL PARTS, PACKAGING OR PRODUCT LITERATURE. REFER TO THE MANUFACTURING BILL OF MATERIAL FOR THESE ITEMS. THE COLORATION OF A PART IS DENOTED BY A SUFFIX THAT IS ADDED TO THE BASE PART NUMBER.
- REMOVE PVC AS NEEDED FOR ASSEMBLY
- SIDE HOOKS TO BE SHIPPED IN BAG, TAPED IN PLACE.

APPLY HIGH STRENGTH LOCTITE (RED) TO BINDING BARREL THREAD, REMOVE EXCESS AFTER



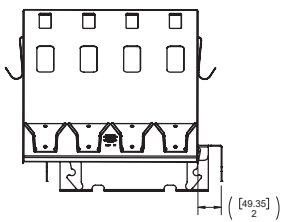
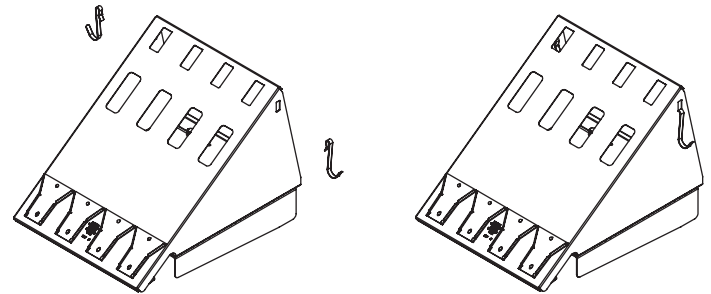
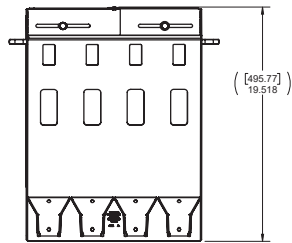
SHEET 1 OF 1

XXX 100 = INSPECTION DIM

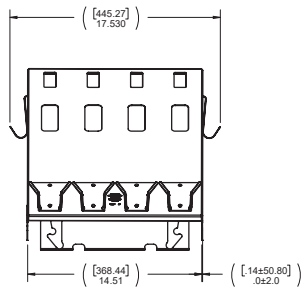
ECN#	REV	REVISION DESCRIPTION	DATE	BY	DESIGNED IN INCHES	XXXX DIMS IN mm	DATE	SCALE
EIL 2902	A	RELEASE PRINT	19.05.15	JSU	100	100	19.05.15	1:8
EIL 2909	B	ADD BOM AND PVC NOTES	19.06.05	JSU	100	100	19.06.05	1:8
EIL 2982	C	ADD SIDE HOOKS	19.07.30	JSU	100	100	19.07.30	1:8
0000-00	D	DESC	YY.MM.DD	INT	1000	1000	YY.MM.DD	1:8
0000-00	E	DESC	YY.MM.DD	INT	1000	1000	YY.MM.DD	1:8
0000-00	F	DESC	YY.MM.DD	INT	1000	1000	YY.MM.DD	1:8



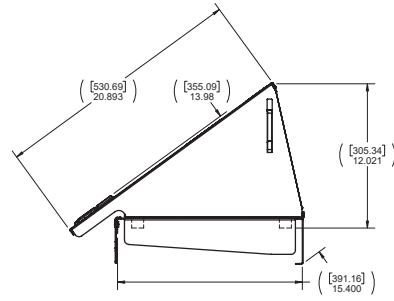
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SHIFTED RACK



CENTERED RACK



SAN JAMAR

Smart ♦ Safe ♦ Sanitary

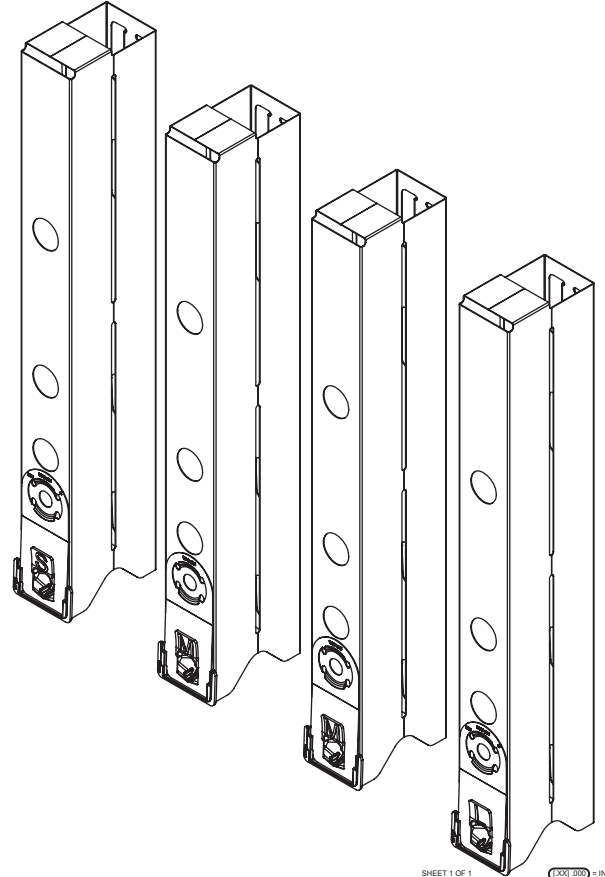
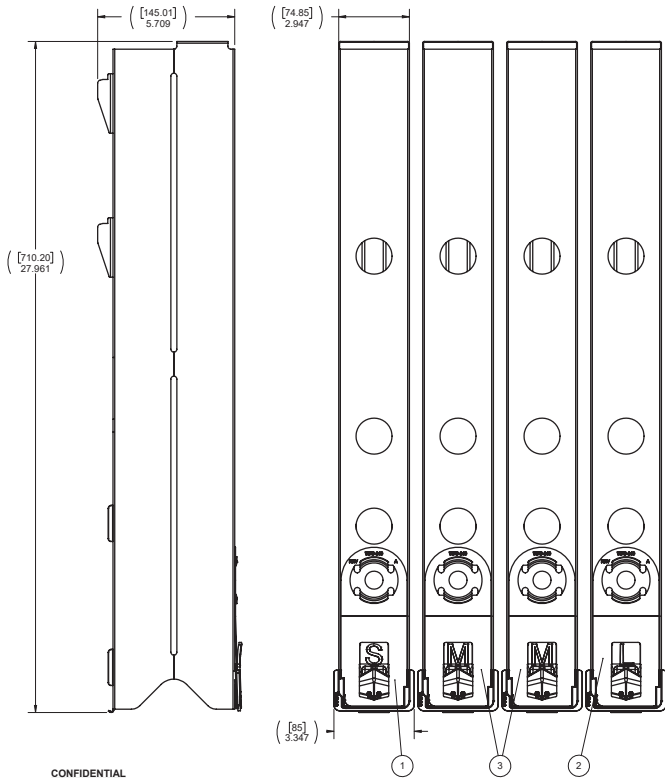
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Customer Print
WFD-210 REV A

ITEM NO.	PART NUMBER	DESCRIPTION	Default
1	WFD-220S	SMALL CHUTE	1
2	WFD-220L	LARGE CHUTE	1
3	WFD-220M	MEDIUM CHUTE	2



- NOTES:
- THIS ENGINEERING BILL OF MATERIAL IS A BASELINE BILL OF MATERIAL THAT DOES NOT TAKE INTO ACCOUNT THE COLORATION OF INDIVIDUAL PARTS, PACKAGING OR PRODUCT LITERATURE. REFER TO THE MANUFACTURING BILL OF MATERIAL FOR THESE ITEMS. THE COLORATION OF A PART IS DEVOTED BY A SUFFIX THAT IS ADDED TO THE BASE PART NUMBER.
 - REMOVE PVC AS NEEDED FOR ASSEMBLY

SHEET 1 OF 1

ECN#	REV	REVISION DESCRIPTION	DATE	BY	DESIGNED IN INCHES	XXXX DIMS IN mm
EIL 2982	A	RELEASE PRINT	19.08.01	JSU	XXXX DIMS IN INCHES	XXXX DIMS IN mm
0000-00	B	DESC	YY.MM.DD	INT	1.00	1.00
0000-00	C	DESC	YY.MM.DD	INT	1.00	1.00
0000-00	D	DESC	YY.MM.DD	INT	1.00	1.00
0000-00	E	DESC	YY.MM.DD	INT	1.00	1.00
0000-00	F	DESC	YY.MM.DD	INT	1.00	1.00

XXXX = INSPECTION DIM

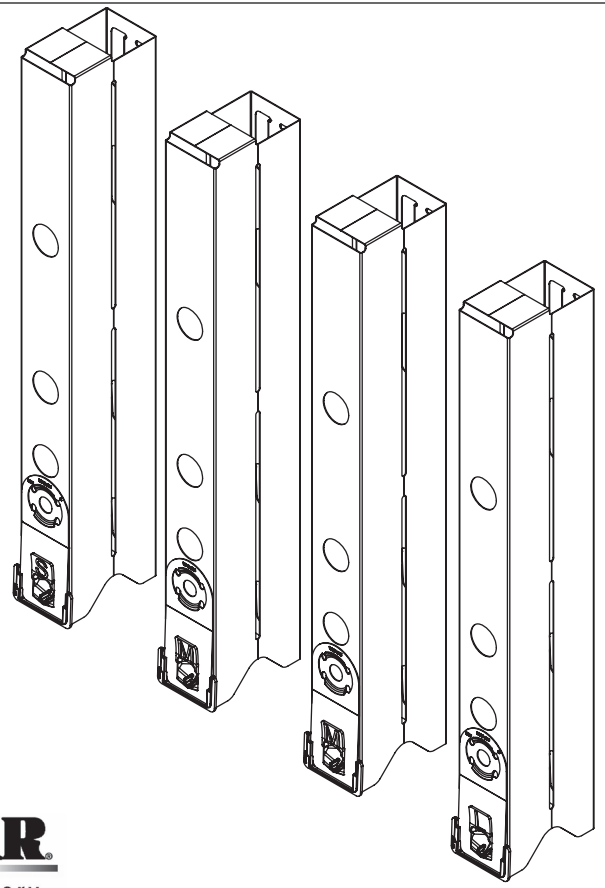
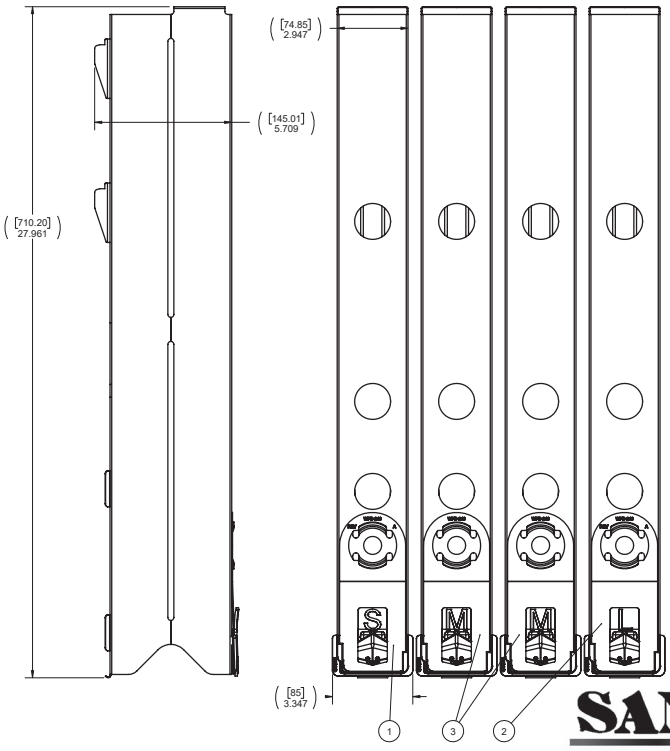
san jamar
smart. safe. cantary.

**4 CHUTE KIT, CFA WAFFLE
CARTON DISPENSER**

DRAWN BY	DATE	SCALE
JSU	19.07.30	1:4
APPROVED BY	INSPECTED BY	REV
XXX	WFD-230	A

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ITEM NO.	PART NUMBER	DESCRIPTION	Default
1	WFD-220S	SMALL CHUTE	1
2	WFD-220L	LARGE CHUTE	1
3	WFD-220M	MEDIUM CHUTE	2



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Customer Print
WFD-230 REV A



SPECIFICATION SHEET

ITEM # 562A

ITEM DESCRIPTION: HIGH DENSITY HOT HOLD TOWER

MANUFACTURER: FRANKE MODEL #18017713

ELECTRICAL SPECIFICATIONS:

VOLT:	120
PH:	
KW:	1800
AMP:	16
HP:	
NEMA RATING:	5-20P

PLUMBING SPECIFICATIONS:

HW:	
CW:	
FW:	
FW2:	
IW:	
ROUGH-IN:	

REMARKS:

REMARKS FROM SCHEDULE

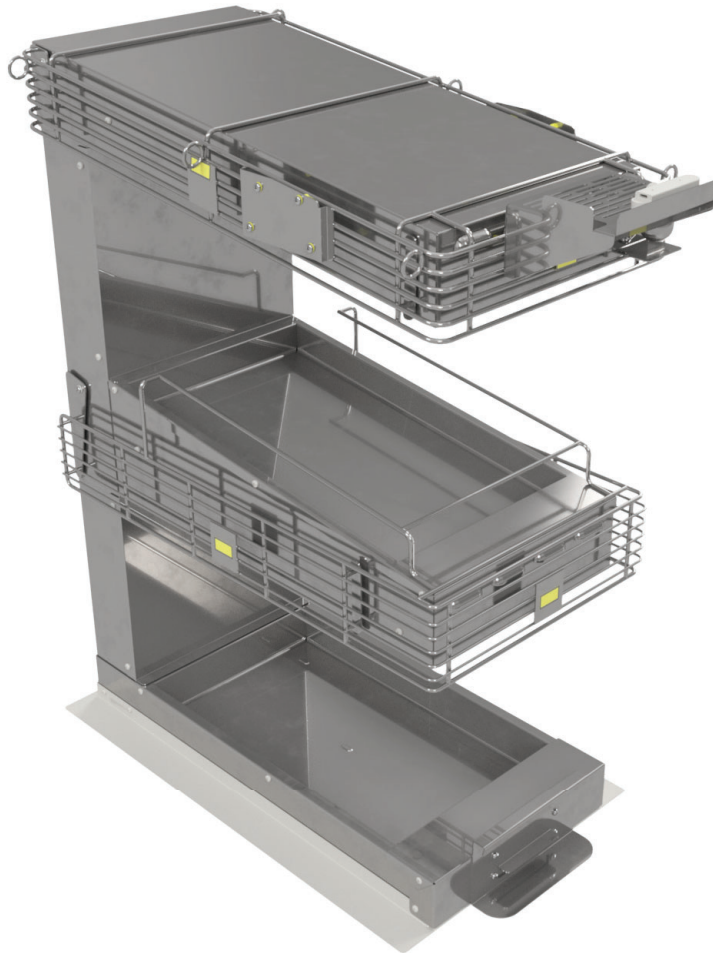
ISSUE DATE:

8/5/2021

ITEM # 562A

HIGH DENSITY HOT HOLD TOWER

WITH AHA READY MOUNTING



Item #:
Project:
Quantity:

MODEL NUMBER

18017713 High Density Hot Hold Tower (AHA Ready)

PRODUCT OVERVIEW

High Density Hot Hold Tower features full stainless steel construction designed to hold four (4) ½ size pans of chicken in a compact, 2-level space. Top-mounted radiant heaters hold chicken crispy and fresh while the forward-tilted upper shelf allow easy access to the pans. Includes individual ON/OFF switches and breakfast/lunch daypart switch, as well as tilt-up wire heat guards to allow for thorough cleaning. Unit includes AHA-ready camera and pan mounts.

STANDARD PRODUCT FEATURES

- Heavy duty stainless steel structure makes cleaning easy
- Narrow 13-¼" width & double tier design saves counter space
- Designed to hold four ½-size (10 x 12") food pans, on two levels
- Forward-tilt upper pan provides good product visibility & access
- Individual heating elements with emitter plate for each level
- Top-mounted heat source provides gentle product warming
- Includes wrap-around wireform heat shields for hot-surface protection
- Independent upper and lower level ON/OFF switches with switch guard
- Simple daypart switch with preset holding temperatures for upper level
- Includes 8-foot power cord & NEMA 5-20 plug standard
- Includes trim ring to seal to counter top
- Includes AH-ready camera and pan mounts

HIGH DENSITY HOT HOLD TOWER WITH AHA READY MOUNTING



FOR COMMERCIAL USE ONLY

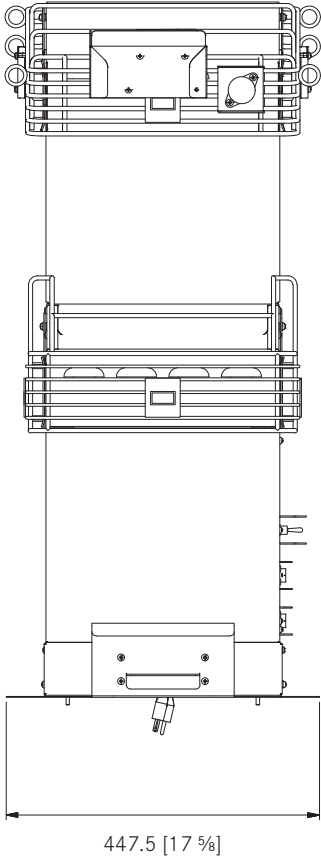
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800 Aviation Parkway
Smyrna, TN 37167
Tel +1-877-379-3769
franke.com

*Make
it
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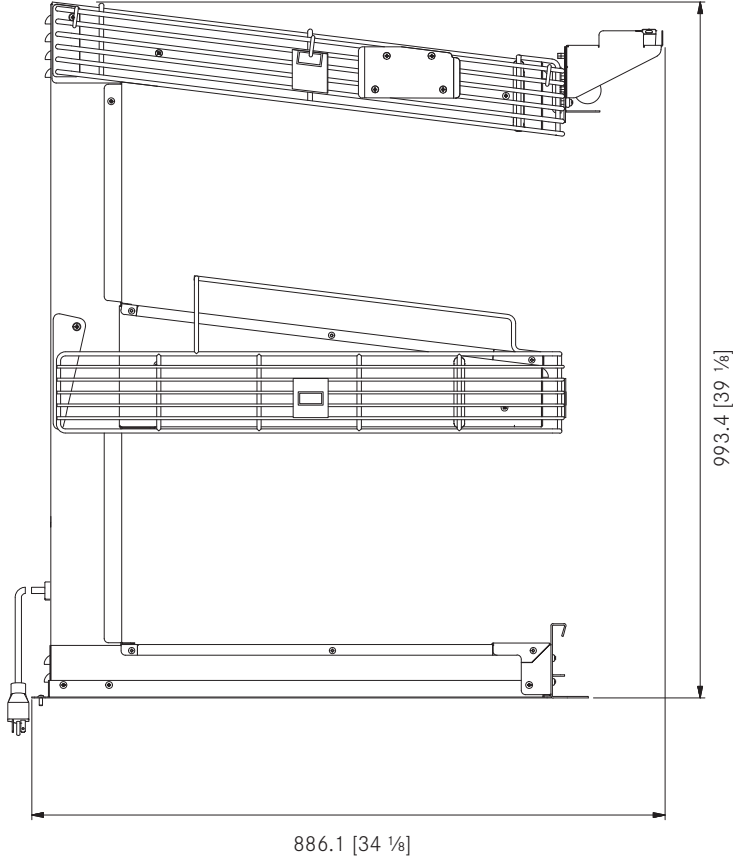


HIGH DENSITY HOT HOLD TOWER WITH AHA READY MOUNTING

FRONT VIEW



SIDE VIEW



DIMENSIONS

ASSEMBLED DIMENSIONS

Width	17.62"	447.5 mm
Depth	34.10"	886.1 mm
Height	39.11"	993.4 mm

SHIPPING DIMENSIONS

Width	48.00"	1219.2 mm
Depth	40.00"	1016.0 mm
Height	44.00"	1117.6 mm

WEIGHT

Net Weight	105 lbs	47.6 kg
Shipping Weight	132 lbs	59.9 kg

ELECTRICAL

Voltage/Frequency/Phase	120V/60Hz/1Ph
Amperage	16.00 Amp
Wattage	1800.00 Watts
Power Consumption	0.18 kWh/Hour (4.32 Kw/Day)
Power Supply	8' Power Cord & NEMA 5-20 Plug



RECYCLE DOCUMENTS AND EQUIPMENT RESPONSIBLY

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Make it Wonderful





SPECIFICATION SHEET

ITEM # 563D

ITEM DESCRIPTION: DOUBLE TIER SANDWICH SLIDE

MANUFACTURER: BKI (SEE SCHEDULE)

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT:	SEE SPECS
PH:	SEE SPECS
KW:	SEE SPECS
AMP:	SEE SPECS
HP:	SEE SPECS
NEMA RATING:	5-15P

HW:	_____
CW:	_____
FW:	_____
FW2:	_____
IW:	_____
ROUGH-IN:	_____

REMARKS:

6' CORD AND PLUG - PLACED ON ITEM #563Da

ISSUE DATE:

12/4/2018

ITEM # 563D



Fresh ideas in foodservice equipment



Pictured: 2TSM-6224

Sandwich Merchandiser

Model: 2TSM-2624, 2TSM-3824,
2TSM-5024, 2TSM-6224

Countertop Sandwich Warmer with Ceramic Infrared Top Heat

BKI's Sandwich Merchandising equipment offers you flexibility and extended holding time. Designed with your unique environment in mind, this unit is available in a variety of lengths: 26, 38, 50, and 62 inch models.

Standard Features:

- Ceramic infrared top heat
- Individual thermostatic controls
- Slot dividers

Agency Approvals:



BKI North America
PO Box 80400
Simpsonville, SC 29680-0400 USA
Telephone: (864) 963-3471
Toll Free: (800) 927-6887

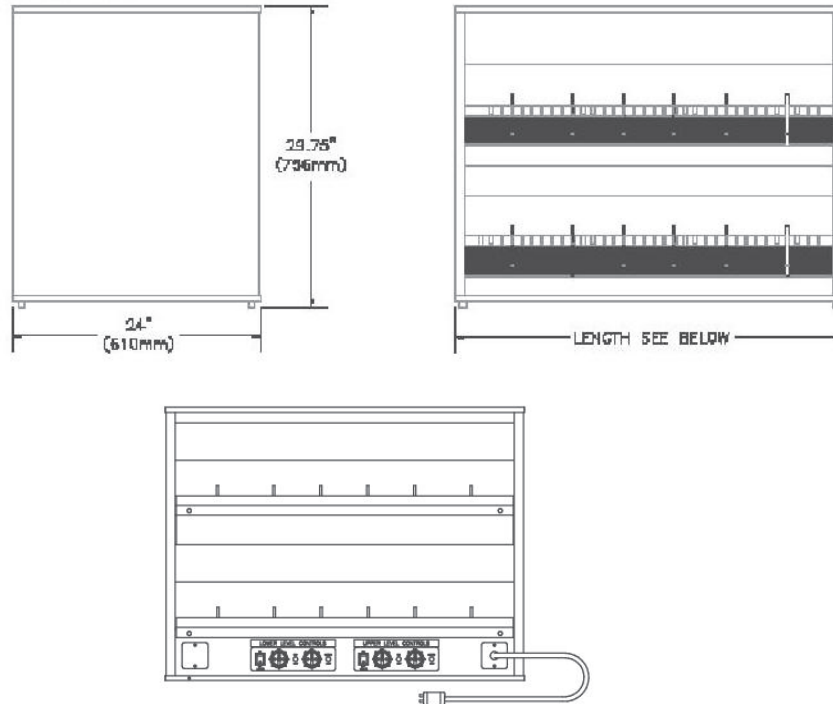
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Telephone: 0870 9904242 • Fax: 0870 9904243



2TSM-2624, 2TSM-3824, 2TSM-5024, 2TSM-6224

Equipment Dimensions:

TWO TIER SANDWICH WARNERS



NOTE: UNITS CAN BE ORDERED WITH THE 6' CORD ON THE LEFT OR RIGHT OPERATOR SIDE.

Mechanical Specifications:

Dimension	2TSM-2624	2TSM-3824	2TSM-5024	2TSM-6224
Height	29 3/4" (444.5mm)	29 3/4" (444.5mm)	29 3/4" (444.5mm)	29 3/4" (444.5mm)
Width	26" (660.4mm)	38" (965.2mm)	50" (1270.0mm)	62" (1574.8mm)
Depth	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)	24" (609.6mm)
Floor Space	4.33 sq.ft. (0.40 sq.m)	6.33 sq.ft. (0.59 sq.m)	8.33 sq.ft. (0.77 sq.m)	10.33 sq.ft. (0.96 sq.m)

Electrical Options:

	2TSM-2624	2TSM-3824	2TSM-5024	2TSM-6224
Volts	120	120/208	120/208	120/208
Amps	9.13	9.18	9.66	13.02
Breaker	15	20	20	20
kW	1.090	1.730	1.830	2.460
Wires	2	3	3	3
Phase	1	1	1	1

Options

- Direct sealed counter mount or 4" table legs
- Right or Left side mounted power cord
- Slot dividers

BKI North America
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Simpsonville, SC 29680-0400 USA
Telephone: (864) 963-3471
Toll Free: (800) 927-6887

BKI Europe
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Reading • West Berkshire • RG7 4AA
Telephone: 0870 9904242 • Fax: 0870 9904243





SPECIFICATION SHEET

ITEM # 564A

ITEM DESCRIPTION: PRODUCT HOLDING CABINET (2X2)

MANUFACTURER: MERCO MODEL #MHC22SNT1T

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 120
PH: 1
KW: 0.6
AMP: 5.5
HP: _____
NEMA RATING: 5-15P

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
11/21/2018

ITEM # 564A

MercoMax™

Visual Hot Holding Cabinet with Wi-Fi Tray Tracking

Item/Sku & Model/Description

Models optimized for Chick-fil-A

- MHC22SNT1T
- MHC24SNT2T
- MHC52SNT1T
- MHC54SNT1T
- MHC22SNL1T - (Special landscape-oriented easyTouch screen)



MHC54SNT1T

MHC52SNT1T

Standard Features

- Multiple size configurations to accommodate a wide range of menu items and fit into all kitchen spaces—both front and back of house operations
- Colorful and informative integrated touch-screen controls
- Controlled, heated cabinet provides the best holding environment for your food products
- Tray seals provide an easy change from crispy to juicy holding environments
- Single or Dual-sided access and displays
 - Designed to support two-sided prep line
 - Functional pass-through feature for flexibility in kitchen layout
- Stainless steel cabinet exterior
- Audible and visual end-of-hold time alarms
- Hard anodized heating surfaces enhance performance and increase durability
- Able to display multiple languages
- 1 year warranty on parts and labor

Options & Accessories

- Single and double handled trays
- Additional tray seals

Specifications

Merco's innovative holding cabinets with integrated touch-screen technology helps you to manage your kitchen operations effectively. Easy to program menu and holding options allow maximum flexibility.

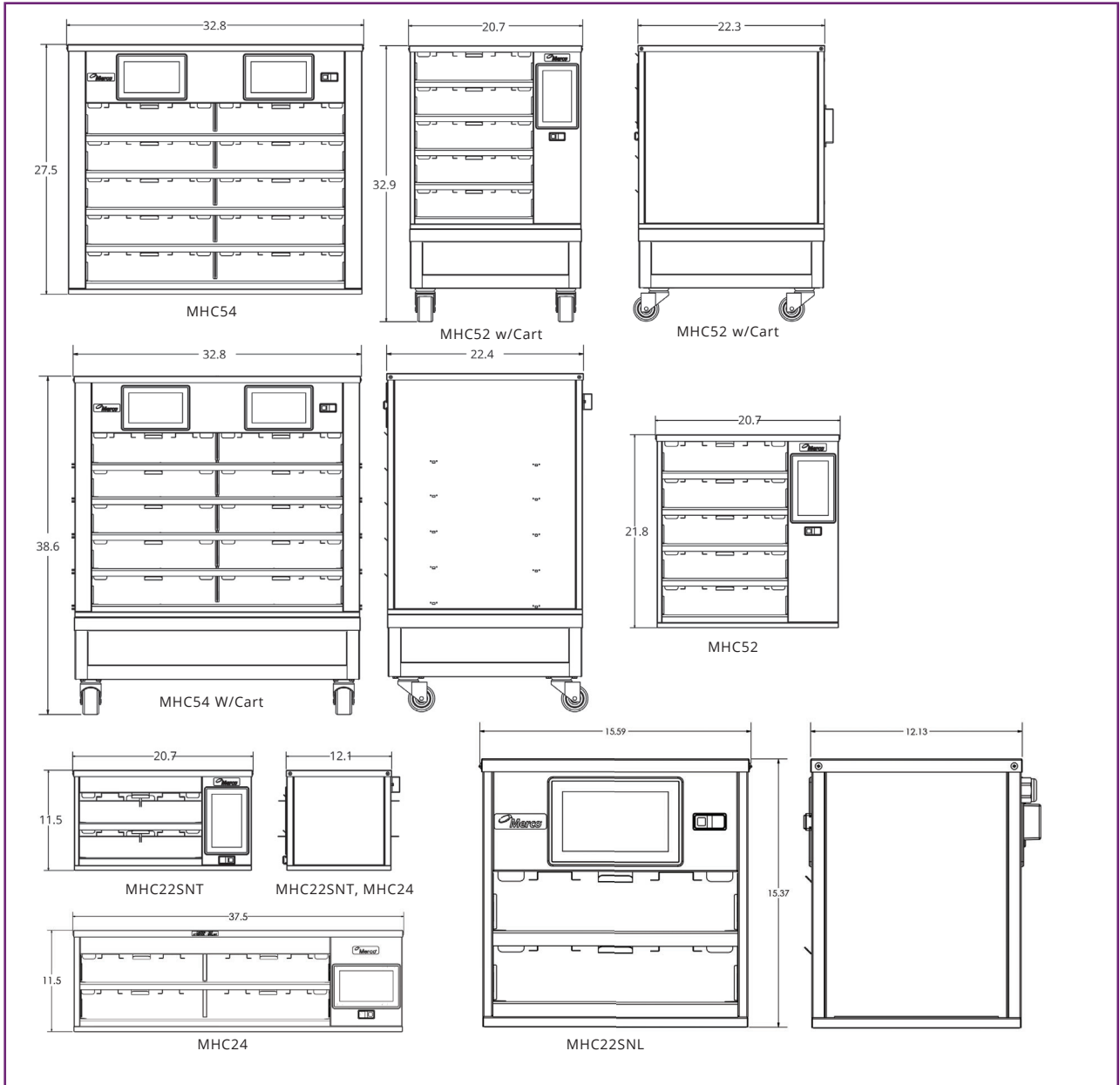
Wi-Fi and exclusive tray tracking abilities provide maximum efficiency for your operators, while maintaining optimal food quality for your customers.

Colorful displays can easily be viewed from across the kitchen, allowing users to quickly visualize food status.

The Merco Visual Holding Cabinets take the worry out of maintaining food quality while holding a wide range of foods safely. Merco's innovative technology gives you a holding cabinet with premier versatility and reliability.

CareCodes provide on-equipment access to key resources, training, parts, accessories and service information from any smart phone or similar device.





Specifications									
Model No.	Cabinet Size (in)				Electrical				Shipping Information
	Height	HT. w/Cart	Width	Depth	V-Hz-Ph	Amps	Watts	Plug Type	Weight (lbs/kg)
MHC22SNT1T	11.5	NA	20.7	12.1	120-60-1	5.5	660	5-15P non locking	38/17.2
MHC22SNL1T	15.4	NA	15.6	12.1	120-60-1	5.5	660	5-15P non locking	38/17.2
MHC24SNT2T	11.5	NA	37.5	12.1	120-60-1	11.0	1320	5-15P non locking	64/29
MHC52SNT1T	21.8	32.9	20.7	22.3	120-60-1	16.0	1920	5-20P non locking	147/66.7
MHC54SNT1T	27.5	38.6	32.8	22.4	120-60-1	24.0	2880	L5-30P locking	245/111.1

Welbilt reserves the right to make changes to the design or specifications without prior notice.



SPECIFICATION SHEET

ITEM # 570

ITEM DESCRIPTION: COOLING RACK

MANUFACTURER: ADVANCED WIRE PRODUCTS MODEL #RAK-194S

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
2/2/2016

ITEM # 570



17 X 14 5/16 X 18 1/4, S.S. LID



SPECIFICATION SHEET

ITEM # 580H

ITEM DESCRIPTION: MULTI-USE HOLDING CABINET (UNDERCOUNTER)

MANUFACTURER: MERCO MODEL #MHC52SNT1T

ELECTRICAL SPECIFICATIONS:

VOLT: 120
PH: 1
KW: 1.92
AMP: 16
HP:
NEMA RATING: NEMA 5-20R

PLUMBING SPECIFICATIONS:

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

ORDER WITH LIDS/TRAY SEALS

ISSUE DATE:

11/21/2018

ITEM # 580H

MercoMax™

Visual Hot Holding Cabinet with Wi-Fi Tray Tracking

Item/Sku & Model/Description

Models optimized for Chick-fil-A

- MHC22SNT1T
- MHC24SNT2T
- **MHC52SNT1T**
- MHC54SNT1T
- MHC22SNL1T - (Special landscape-oriented easyTouch screen)



MHC54SNT1T

MHC52SNT1T

Standard Features

- Multiple size configurations to accommodate a wide range of menu items and fit into all kitchen spaces—both front and back of house operations
- Colorful and informative integrated touch-screen controls
- Controlled, heated cabinet provides the best holding environment for your food products
- Tray seals provide an easy change from crispy to juicy holding environments
- Single or Dual-sided access and displays
 - Designed to support two-sided prep line
 - Functional pass-through feature for flexibility in kitchen layout
- Stainless steel cabinet exterior
- Audible and visual end-of-hold time alarms
- Hard anodized heating surfaces enhance performance and increase durability
- Able to display multiple languages
- 1 year warranty on parts and labor

Options & Accessories

- Single and double handled trays
- Additional tray seals

Specifications

Merco's innovative holding cabinets with integrated touch-screen technology helps you to manage your kitchen operations effectively. Easy to program menu and holding options allow maximum flexibility.

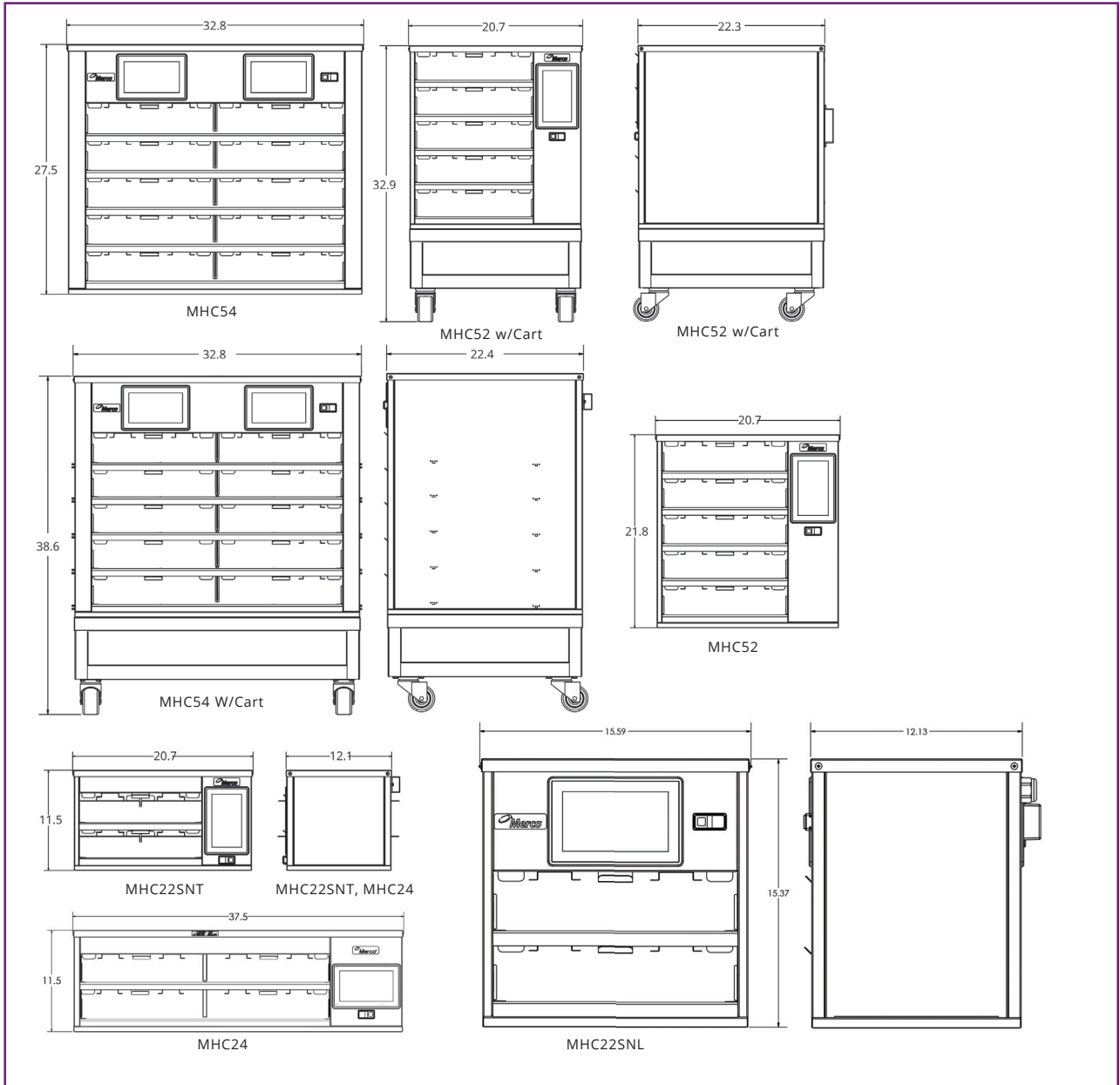
Wi-Fi and exclusive tray tracking abilities provide maximum efficiency for your operators, while maintaining optimal food quality for your customers.

Colorful displays can easily be viewed from across the kitchen, allowing users to quickly visualize food status.

The Merco Visual Holding Cabinets take the worry out of maintaining food quality while holding a wide range of foods safely. Merco's innovative technology gives you a holding cabinet with premier versatility and reliability.

CareCodes provide on-equipment access to key resources, training, parts, accessories and service information from any smart phone or similar device.





Specifications									
Model No.	Cabinet Size (in)				Electrical				Shipping Information
	Height	HT. w/Cart	Width	Depth	V-Hz-Ph	Amps	Watts	Plug Type	Weight (lbs/kg)
MHC22SNT1T	11.5	NA	20.7	12.1	120-60-1	5.5	660	5-15P non locking	38/17.2
MHC22SNL1T	15.4	NA	15.6	12.1	120-60-1	5.5	660	5-15P non locking	38/17.2
MHC24SNT2T	11.5	NA	37.5	12.1	120-60-1	11.0	1320	5-15P non locking	64/29
MHC52SNT1T	21.8	32.9	20.7	22.3	120-60-1	16.0	1920	5-20P non locking	147/66.7
MHC54SNT1T	27.5	38.6	32.8	22.4	120-60-1	24.0	2880	L5-30P locking	245/111.1

Welbilt reserves the right to make changes to the design or specifications without prior notice.



SPECIFICATION SHEET

ITEM # 581

ITEM DESCRIPTION: DUMP CART

MANUFACTURER: FRANKE CTS CART MODEL #18008028

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:
2/2/2016

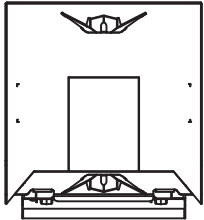
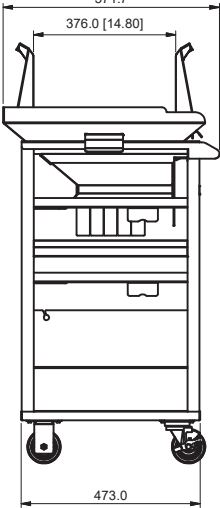
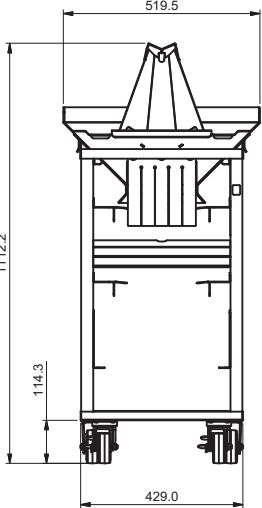
ITEM # 581

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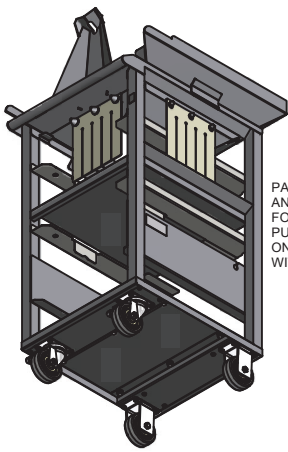
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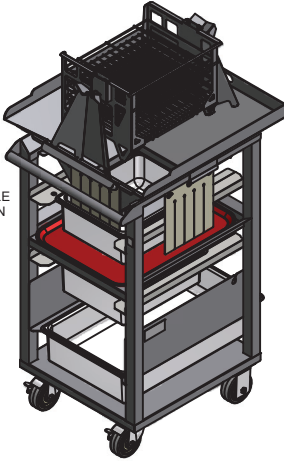
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REVISION HISTORY				
REV	DESCRIPTION	MODIFIED	DATE	ECO
A	Initial Issue	FA/HS006	2/20/2014	NFMC01148



PANS, BASKET AND TRAY ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY! NOT INCLUDED WITH ASSY



2	1	18008027	CTS Cart Assembly V6	-	
1	1	18004799	Funnel Assy, fits CTS V5	-	
ITEM	QTY	PART NUMBER	TITLE	MATERIAL	Debur
Parts List					

CTS Assembly V6					
				TOLERANCES: X AND X.X 1 mm ANGLES: 45 DEG OR AS NOTED	
Franke Foodservice Systems <small>These drawings and specifications are the property of Franke Technology and Treatment Ltd. and shall not be reproduced, copied or transmitted in any form or by any means without the prior written permission of Franke Technology and Treatment Ltd. (regional controller).</small>		SCALE: AS NOTED UNIT: MM FORMAT: B		MATERIAL: America REGION: America REV: A ITEM NUMBER: 18008028	

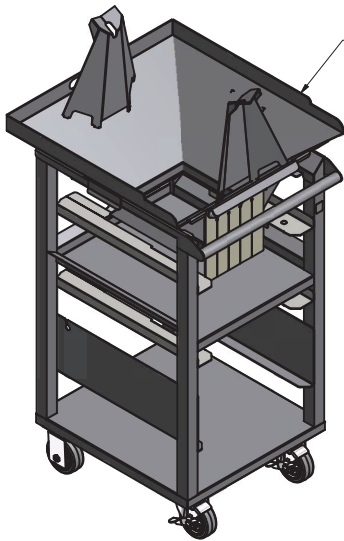
SHEET 1 OF 3

4

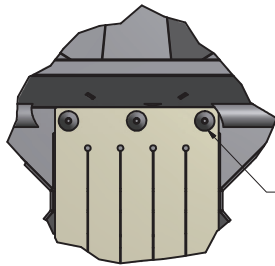
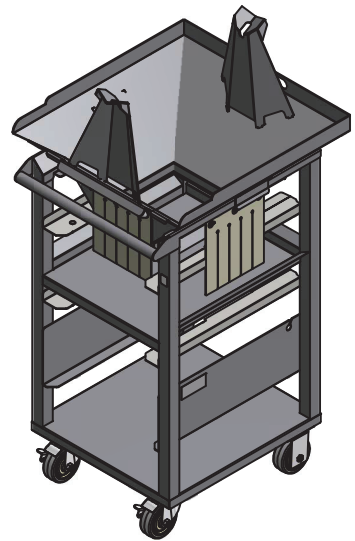
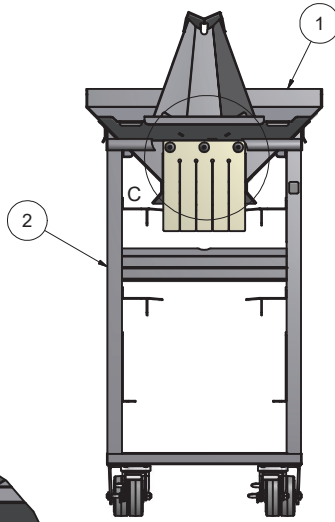
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2

1



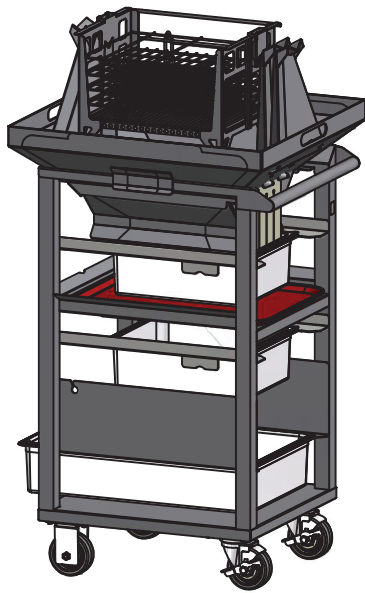
FUNNEL ASSY IS NOT ATTACHED TO STATION!



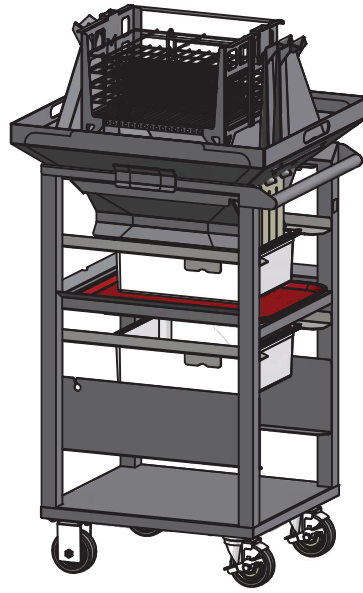
SILICON GATE SNAPS OVER BULLETS - 3 PLACES

C (0.24 : 1)

TITLE						CT5 Assembly V6	
				TOLERANCES		SUB-TITLE	
Franke Foodservice Systems <small>These drawings and specifications are the property of Franke Technology and Treatment Ltd and shall not be reproduced, copied or modified in any way without the prior written permission of Franke Technology and Treatment Ltd. Registered Intellectual.</small>		SCALE AS NOTED		MATERIAL X AND X.X 1 mm ANGLES: 45 DEG OR AS NOTED		REGION America	
UNIT MM		FORMAT B		THICKNESS		REV A	
						ITEM NUMBER 18008028	





Equipment Pan In



Equipment Pan Removed

Packaging Notes:

- 1 CTS crate is 19004394.
- 2 Set CTS on base.
- 3 Band CTS to base using cardboard angles to protect top.
- 4 Stretch wrap unit.
- 5 Attach crate sides to base and top to sides.
- 6 Use normal shipping labels.
- 7 Attach special CFA label listing store #, PO #, city/state, # __ of __ and order #.

TITLE CTS Assembly V6						SUB-TITLE
				TOLERANCES X AND X.X 1 mm ANGLES ±1 DEG OR AS NOTED		
Franke Foodservice Systems <small>These drawings and specifications are the property of Franke Technology and Treatment Ltd. and shall not be reproduced, copied or transmitted in any form or by any means without the prior written permission of Franke Technology and Treatment Ltd. (except as indicated).</small>		SCALE AS NOTED		MATERIAL		REGION America
UNIT MM		FORMAT B		THICKNESS		REV A
						ITEM NUMBER 18008028



SPECIFICATION SHEET

ITEM # 600

ITEM DESCRIPTION: MIXER

MANUFACTURER: HOBART MODEL #HL200

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 120
PH: 1
KW:
AMP: 8
HP: 0.5
NEMA RATING: L5-20P (BY E.C.)

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

E.C. TO CHANGE PLUG TO TWIST LOCK AS NEEDED - ORDER WITH 3HOB405, 3HOB061, 3HOB318, 3HOB319, & 3HOB058

ISSUE DATE:

5/23/2018

ITEM # 600

HOBART701 S Ridge Avenue, Troy, OH 45374
1-888-4HOBART • www.hobartcorp.com**LEGACY®
HL200 MIXER****HOBART****STANDARD FEATURES**

- Heavy-Duty ½ H.P. Motor
- Gear Transmission
- Three Fixed Speeds Plus Stir Speed
- Shift-on-the-Fly™ Controls
- Patented soft start Agitation Technology
- 15-Minute SmartTimer™
- Automatic Time Recall
- Large, Easy-To-Reach Controls
- Single Point Bowl Installation
- Ergonomic Swing-Out Bowl
- #12 Taper Attachment Hub
- Open Base
- Stainless Steel Bowl Guard
- Metallic Gray Hybrid Powder Coat Finish

ACCESSORY PACKAGES - featuring Hobart Quick Release™ Agitators

- Deluxe Accessory Package Includes:**
 - 20 Quart Stainless Steel Bowl
 - 20 Quart "B" Beater
 - 20 Quart "D" Wire Whip
 - 20 Quart Bowl Scraper
 - 20 Quart Ingredient Chute
- Standard Accessory Package Includes:**
 - 20 Quart Stainless Steel Bowl
 - 20 Quart "B" Beater
 - 20 Quart "D" Wire Whip

MODELS

- HL200** – 20-Quart All Purpose Mixer
- HL200C – 20-Quart All Purpose Mixer with Maximum Security Correctional Package

OPTIONS

- SmartPlus2™ Programmable Recipe Timer

Specifications, Details and Dimensions on Inside and Back.

**LEGACY® HL200 MIXER**

LEGACY® HL200 MIXER



701 S Ridge Avenue, Troy, OH 45374
1-888-4HOBART • www.hobartcorp.com

SOLUTIONS/BENEFITS

½ H.P. Motor

Durability

- Heavy-duty to meet the most demanding operations

Gear Transmission

Durability, Reliability

- Ensures consistent performance and minimum downtime under heavy loads

Three Fixed Speeds plus Stir Speed

Flexibility, Reliability, Consistency

- For incorporating, blending, mixing ingredients
- Supports consistent results and thorough mixing

Shift-on-the-Fly™ Controls

Flexibility

- Allows operator to change speeds while mixer is running

Patented soft start Agitation Technology

Sanitation

- Each speed has a soft transition into a higher speed to reduce the chances of product splash-out

15-Minute SmartTimer™

Convenience, Ease of Use, Consistency

- Supports recipe mixing times
- Provides accurate results and eliminates overmixing

Automatic Time Recall

Productivity, Consistency

- Remembers the last time set for each speed
- Great for multiple batches

Ergonomic Swing-Out Bowl

Ease of Use, Convenience

- Easy loading and unloading of products
- Single Point Bowl Installation allows for simple mounting and removal of bowl
- Bowl Interlock ensures mixer bowl is properly in place for mixer to operate

Stainless Steel Bowl Guard

Protection

- Safety interlock prevents operation when front portion of guard is out of position

Hobart Accessories

Durability, Flexibility, Simplicity

- Hobart Quick Release™ agitators allow for simple installation and removal from agitator shaft
- Hobart accessories are designed for long-term usage under heavy-duty conditions
- Large array of accessories provide multiple uses for recipe and product processing

HL200 MIXER CAPACITY CHART

Recommended Maximum Capacities - dough capacities based on 70°F. water and 12% flour moisture.

PRODUCT	AGITATORS SUITABLE FOR OPERATION	HL200
CAPACITY OF BOWL (QTS. LIQUID)		20
Egg Whites	D	1 qt.
Mashed Potatoes	B & C	15 lbs.
Mayonnaise (Qts. of Oil)	B or C or D	10 qts.
Meringue (Qts. of Water)	D	1½ pts.
Waffle or Hot Cake Batter	B	8 qts.
Whipped Cream	D or C	4 qts.
Cake, Angel Food (8-10 oz. cake)	C or I	15
Cake, Box or Slab	B or C	20 lbs.
Cake, Cup	B or C	20 lbs.
Cake, Layer	B or C	20 lbs.
Cake, Pound	B	21 lbs.
Cake, Short (Sponge)	C or I	15 lbs.
Cake, Sponge	C or I	12 lbs.
Cookies, Sugar	B	15 lbs.
Dough, Bread or Roll (Lt.-Med.) 60% AR	§ ED	25 lbs.□
Dough, Heavy Bread 55% AR	§ ED	15 lbs.□
Dough Pie	B & P	18 lbs.
Dough, Thin Pizza 40% AR (max. mix time 5 min.)	§‡ ED	9 lbs.□
Dough, Med. Pizza 50% AR	§‡ ED	10 lbs.□
Dough, Thick Pizza 60% AR	§‡ ED	20 lbs.□
Dough, Raised Donut 65% AR	ED	9 lbs.*
Dough, Whole Wheat 70% AR	ED	20 lbs.□
Eggs & Sugar for Sponge Cake	B & C or I	8 lbs.
Icing, Fondant	B	12 lbs.
Icing, Marshmallow	C or I	2 lbs.
Shortening & Sugar, Creamed	B	16 lbs.
Pasta, Basic Egg Noodle (max. mix time 5 min.)	ED	5 lbs.

NOTE: % AR (% Absorption Ratio) - Water weight divided by flour weight. Capacity depends on moisture content of dough. Above capacities based on 12% flour moisture at 70°F water temperature.

□ 1st Speed

* 2nd Speed

† 3rd Speed

§ If high gluten flour is used, reduce above dough batch size by 10%.

‡ 2nd Speed should never be used on 50% AR or lower products.

USE OF ICE REQUIRES A 10% REDUCTION IN BATCH SIZE.

1 gallon of water weighs 8.33 lbs.

NOTE: Attachment hub should not be used while mixing.



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LEGACY® HL200 MIXER

SPECIFICATIONS

MOTOR:

½ H.P. high torque motor.

100-120/50/60/1 8.0 Amps
200-240/50/60/1 5.0 Amps

ELECTRICAL:

100-120/50/60/1, 200-240/50/60/1 – UL Listed.

CONTROLS:

Magnetic contactor with thermal overload protection. Internally sealed “Start-Stop” push buttons. A 15-minute SmartTimer™ is standard. SmartTimer™ includes **Automatic Time Recall**, which remembers the last time set for each speed. Optional SmartPlus2™ Programmable Recipe Timer allows operators the ability to program up to 4 recipes with 5 steps per recipe. SmartPlus2™ automatically changes speeds and starts timer count-down without operator intervention.

TRANSMISSION:

Gear-driven. Gears are constant mesh heat-treated hardened alloy steel along with anti-friction ball bearings. Grease lubricants furnished to all gears and shafts.

SPEEDS:

	Agitator (RPM)	Attachment (RPM)
Stir	59	33
First (Low)	107	61
Second (Intermediate)	198	113
Third (High)	365	207

BOWL GUARD:

Heavy-duty stainless steel wire front and solid rear portion. Front portion of guard rotates easily to add ingredients and install or remove agitator. It detaches in seconds for cleaning in dishwasher or sink. Rear portion of guard can be quickly cleaned in position. Guard must be in closed position before mixer will operate. Bowl support interlock provides further protection.

BOWL LIFT:

Ergonomic style, hand crank operated, self-locking in top and bottom position.

FINISH:

Metallic Gray Hybrid Powder Coat finish.

ATTACHMENT HUB:

Comes with front-mounted Hobart standard #12 taper attachment hub for use with Hobart #12 size attachments.

ATTACHMENTS AND ACCESSORIES:

The following are available at extra cost:

- Stainless Steel Bowl
- “B” Flat Beater
- “C” Wing Whip
- “D” Wire Whip
- “E” Dough Hook
- “ED” Dough Hook
- “P” Pastry Knife
- Bowl Splash Cover
- Bowl Scraper
- Ingredient Chute
- 12 Quart Accessories
- 9" Vegetable Slicer
- Meat Chopper Attachment
- Rubber Foot Pads
- Attachment Tray Support



Hobart Bowl Scraper

Hobart Ingredient Chute



Listed by Underwriters Laboratories Inc. and certified by NSF International.

LEGACY® HL200 MIXER



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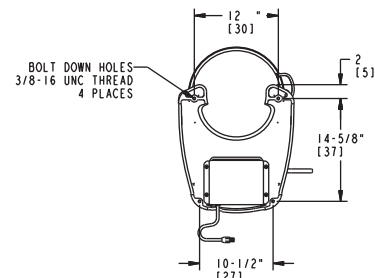
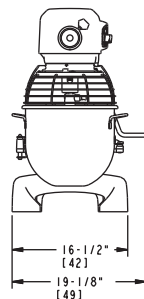
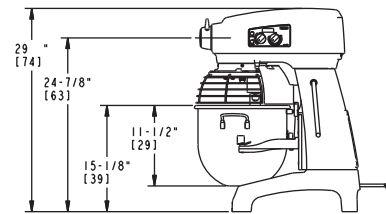
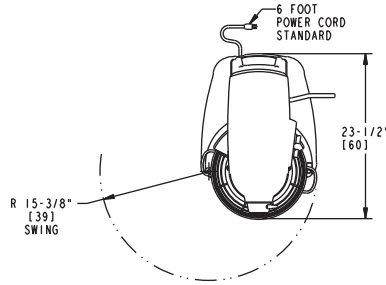
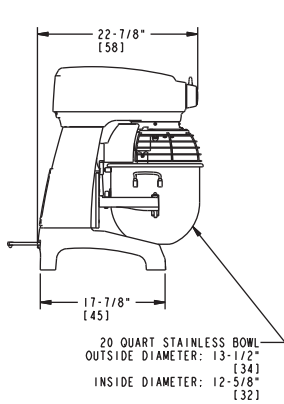
SPECIFICATIONS

ELECTRICAL SPECIFICATIONS: 100-120/50/60/1,
200-240/50/60/1 – UL Listed.

WEIGHT: 189 lbs. net; 204 lbs. domestic shipping.

WARRANTY: Unit has full one-year warranty on parts, labor and mileage against manufacturer's defects. Service contracts are available.

DETAILS AND DIMENSIONS

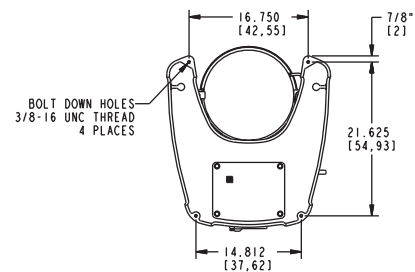
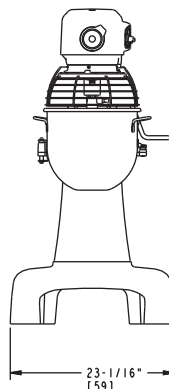
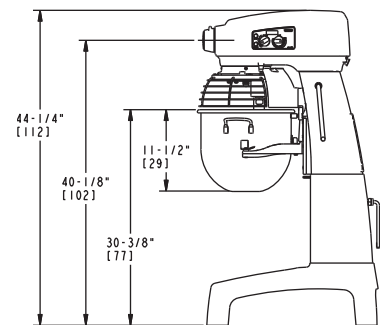
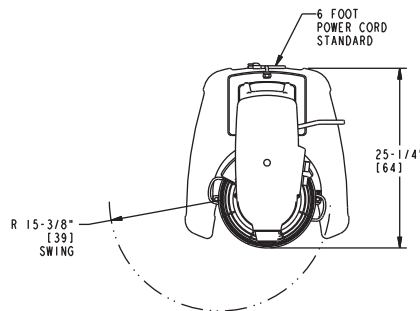
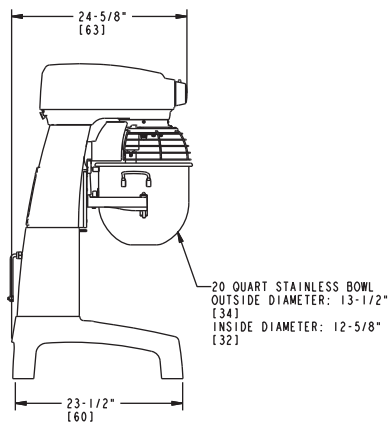


WARNING

ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER CODES IN FORCE

NOTE

MACHINE WEIGHT (LESS BOWL)----- 189 LBS
SHIPPING WEIGHT----- 204 LBS
BOWL WEIGHT----- 9 LBS



WARNING

ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER CODES IN FORCE

NOTE

MACHINE WEIGHT (LESS BOWL)----- 265 LBS
SHIPPING WEIGHT----- 280 LBS
BOWL WEIGHT----- 9 LBS

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.



SPECIFICATION SHEET

ITEM # 600a

ITEM DESCRIPTION: MIXER ROLLING CART

MANUFACTURER: HOBART MODEL #HL2012

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ORDER ON 6" CASTERS

ISSUE DATE:

2/2/2016

ITEM # 600a



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FOOD MACHINE ACCESSORY TABLES



STANDARD FEATURES

- Heavy gauge stainless steel tops, legs, and shelves
- Models MIXER-TABLE2, 205025, and 205026 have chrome plated adjustable leveling feet
- Model TABLE-HL2012 has four locking casters

ACCESSORIES

- Four locking casters
Available for Models MIXER-TABLE 2,
CUTTER-TABLE3 and CUTTER-TABLE4

MODELS

□ Model TABLE-HL2012 Mixer Table

Single Shelf Model

27 x 32 inches x 26³/₄" inches high

Includes 4 locking casters, pre-drilled holes for mixer, 4 pegs for storage of beaters, whips, dough arms, etc.

For use with Hobart 5, 12 and 20 quart mixers

□ Model MIXER-TABLE2 (205024-1)

Single Shelf Model

20 x 24 inches x 22 inches high

For use with Hobart 5, 12 and 20 quart mixers

□ Model CUTTER-TABLE3 (205025)

Food Cutter Table

Single Shelf Model

For use with Hobart 84145 or 84186 Food Cutter

□ Model CUTTER-TABLE4 (205026)

Food Cutter Table

Double Shelf Model

27 x 32 inches x 31¹/₈" inches high

For use with Hobart 84145 or 84186 Food Cutter

Specifications, Details and Dimensions on Inside and Back.



FOOD MACHINE ACCESSORY TABLES

FOOD MACHINE ACCESSORY TABLES

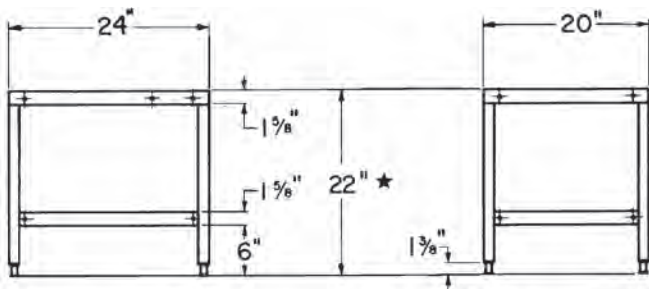


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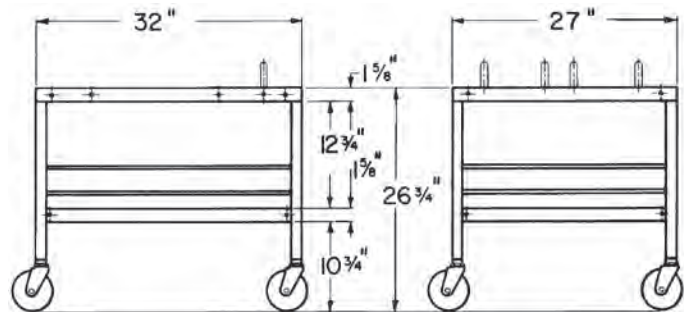
DETAILS AND DIMENSIONS

MIXER TABLES

MODEL MIXER-TABLE2 (205024-1)

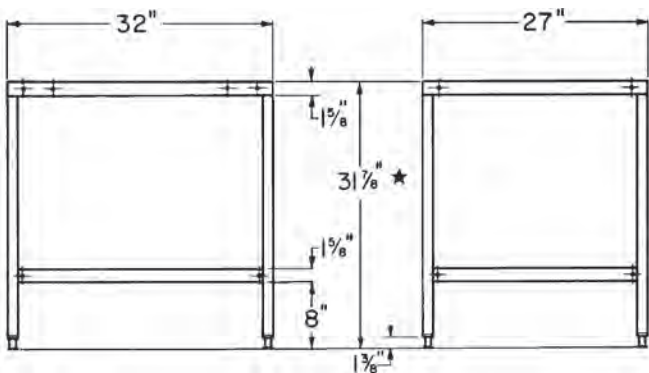


MODEL TABLE-HL2012

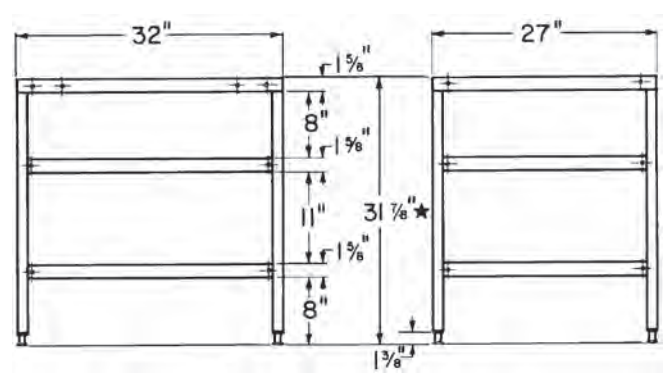


FOOD CUTTER TABLES

MODEL CUTTER-TABLE3 (205025)



MODEL CUTTER-TABLE4 (205026)



* Add 6" to height when ordering tables with casters.

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.



SPECIFICATION SHEET

ITEM # 605

ITEM DESCRIPTION: MOBILE CART

MANUFACTURER: INTERMETRO MODEL #MW206

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

NOT SHOWN ON DRAWINGS - ORDER ON 5" CASTERS

ISSUE DATE:

2/2/2016

ITEM # 605



Item # _____

Job _____

SUPER ERECTA SHELF® MW UTILITY CARTS – Three-Shelf Models

- **Attractive** and thoroughly practical, these carts are offered as complete units, shipped knocked down, with all components packaged in a compact carton.
- **Super Erecta Shelf® Construction** makes units easy to assemble with absolute rigidity, and makes relocation of shelves quick and simple.
- **Choice of 26 Three-Shelf Models:** Four different shelf combinations, each in five to ten different variations.
 - MW200 Series** – Three stainless steel flat shelves. Six sizes. Stainless steel handles, except chrome handles on MW201.
 - MW300 Series** – Two stainless steel flat shelves and one chrome wire shelf. Five sizes. Chrome handles. Wire shelf can be located top, middle or bottom.
 - MW400 Series** – Two chrome wire shelves and one stainless steel flat shelf. Five sizes. Chrome handles. Solid shelf can be positioned top, middle or bottom.
 - MW700 Series** – Three wire shelves, choice of chrome or stainless steel. Five sizes; ten models. Handle material matches shelves.
- **Wire Shelves:** Bright, modern, sanitary appearance. Open construction minimizes dust accumulation, maximizes visibility and air circulation.
- **Solid Shelves:** Ideal for transporting materials that require an expanse of flat surface. Raised ship's edge permits fast clean-up in case of liquid spills. Double thickness of 18-gauge steel at edges also gives rigidity and high strength.
- **Casters:** Standard-duty. 4LD 4" (102mm) diameter casters on carts 18" (455mm) wide; 5LD 5" (127mm) diameter casters on carts 21" (530mm) and 24" (610mm) wide. See sheet #11.20 for additional information on casters.
- **Donut Bumpers**
- **One-Piece Handle**
- **Height:** 38" (965mm) floor to handle with 4" (102mm) casters; 39" (991mm) floor to handle with 5" (127mm) casters.
- **Replaceable Parts:** If any part of any cart is damaged by use, replacement parts are readily available and easily installed.
- **Accessories:** A wide variety is available to increase usefulness. See sheet #12.20.



MW700 Series



MW200 Series



MW300 Series



MW400 Series



SUPER ERECTA SHELF®
Utility Carts – Three-Shelf

MW200, MW300, MW400 and MW700 Series

12.05



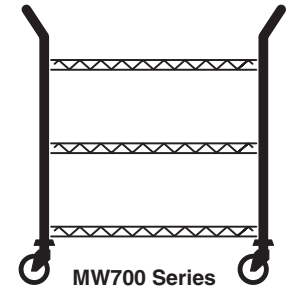
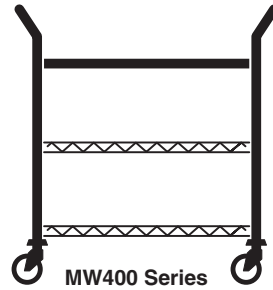
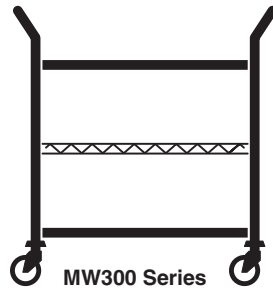
InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com

Job _____

SUPER ERECTA SHELF®
 MW UTILITY CARTS –
 Three-Shelf Models



MW Carts (Three-Shelf Models)



Dimensions

Cat. No.	Width		Length		Approx. Pkd. Wt.		Shelves	Shelf Material	Handles	Casters	
	(in.)	(mm)	(in.)	(mm)	(lbs.)	(kg)				(in.)	(mm)
MW203	18	455	24	610	48	21.8	3-Solid	Stainless Steel	Stainless Steel	4	102
MW204	18	455	30	760	53	24.0	3-Solid	Stainless Steel	Stainless Steel	4	102
MW205	18	455	36	910	59	26.8	3-Solid	Stainless Steel	Stainless Steel	4	102
MW206	21	530	36	910	66	29.9	3-Solid	Stainless Steel	Stainless Steel	5	127
MW208	24	610	36	910	74*	33.6	3-Solid	Stainless Steel	Stainless Steel	5	127
MW301	18	455	24	610	46	20.9	2-Solid 1-Wire	Stainless Steel Chrome	Chrome	4	102
MW302	18	455	30	760	52	23.6	2-Solid 1-Wire	Stainless Steel Chrome	Chrome	4	102
MW303	18	455	36	910	57	25.9	2-Solid 1-Wire	Stainless Steel Chrome	Chrome	4	102
MW304	21	530	36	910	62	28.1	2-Solid 1-Wire	Stainless Steel Chrome	Chrome	5	127
MW306	24	610	36	910	69	31.1	2-Solid 1-Wire	Stainless Steel Chrome	Chrome	5	127
MW401	18	455	24	610	43	19.5	1-Solid 2-Wire	Stainless Steel Chrome	Chrome	4	102
MW402	18	455	30	760	47	21.3	1-Solid 2-Wire	Stainless Steel Chrome	Chrome	4	102
MW403	18	455	36	910	52	23.6	1-Solid 2-Wire	Stainless Steel Chrome	Chrome	4	102
MW404	21	530	36	910	59	26.8	1-Solid 2-Wire	Stainless Steel Chrome	Chrome	5	127
MW406	24	610	36	910	65	29.5	1-Solid	Stainless Steel	Chrome	5	127
MW701	18	455	24	610	39	17.6	3-Wire	Chrome	Chrome	4	102
MW702	18	455	24	610	38	17.2	3-Wire	Stainless Steel	Stainless Steel	4	102
MW703	18	455	30	760	43	19.5	3-Wire	Chrome	Chrome	4	102
MW704	18	455	30	760	42	19.1	3-Wire	Stainless Steel	Stainless Steel	4	102
MW705	18	455	36	910	47	21.3	3-Wire	Chrome	Chrome	4	102
MW706	18	455	36	910	45	20.4	3-Wire	Stainless Steel	Stainless Steel	4	102
MW707	21	530	36	910	50	22.7	3-Wire	Chrome	Chrome	5	127
MW708	21	530	36	910	50	22.7	3-Wire	Stainless Steel	Stainless Steel	5	127
MW711	24	610	36	910	60	27.2	3-Wire	Chrome	Chrome	5	127
MW712	24	610	36	910	57	25.9	3-Wire	Stainless Steel	Stainless Steel	5	127

* Cannot be shipped UPS.
 For utility cart accessories, refer to sections 10.05 and 10.06.

Manufactured by:



InterMetro Industries Corporation
 North Washington Street, Wilkes-Barre, PA 18705
 Phone: 570-825-2741 • Fax: 570-825-2852
 For Product Information Call: 1-800-433-2232
 Visit Our Web Site: www.metro.com

L02-055
 Rev. 12/00
 Printed in U.S.A.

Information and specifications are subject to change without notice. Please confirm at time of order.

SUPER ERECTA SHELF®
Utility Carts – Three-Shelf MW200, MW300, MW400 and MW700 Series





SPECIFICATION SHEET

ITEM # 607

ITEM DESCRIPTION: COUNTER TOP LEMON JUICER

MANUFACTURER: SUNKIST MODEL #J-1

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: 115
PH: 1
KW:
AMP:
HP: 0.25
NEMA RATING: 5-15P

HW:
CW:
FW:
FW2:
IW:
ROUGH-IN:

REMARKS:

LOCATED ON ITEM #606

ISSUE DATE:

5/4/2018

ITEM # 607

Complete Juicer Units

Model #	Description	Units per Carton	Weight per Carton
J-1	Type 8 115/60	1	37 lbs.
J-2	Type 8 230/50	1	37 lbs.
J-4	Type 8 230/60	1	37 lbs.

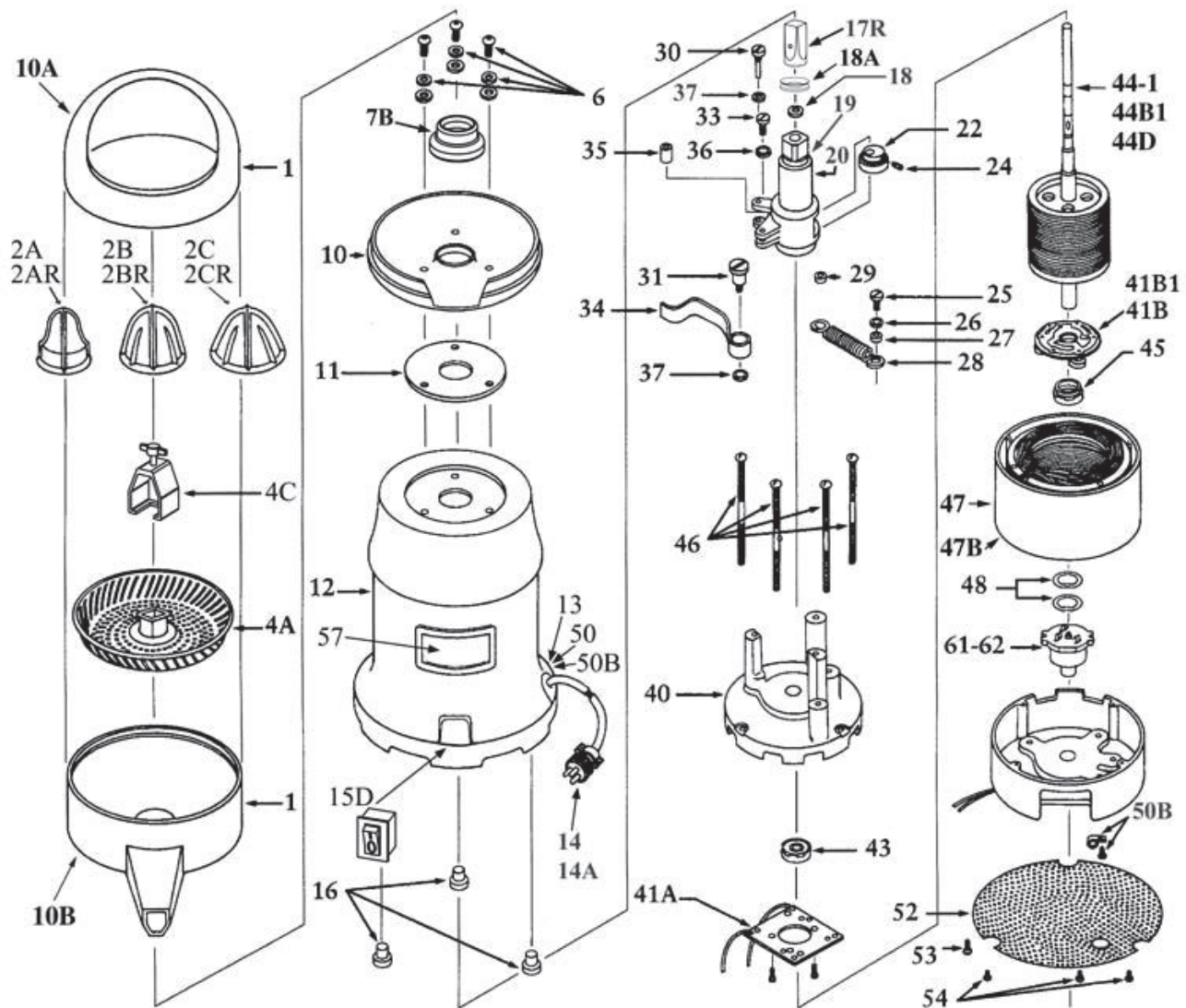
Individual Parts - Optional

Part #	Description	Part #	Description	Part #	Description
1	Plastic Bowl Assembly incl. dome (10A), spout (10B) & Bowl Support (10)	15E	Connectors for 14 & 15D (set of 4 not illustrated)	41A	Stationary Motor Switch
2	Extracting Bulb Set w/metal insert (Only use with 17 or 17C) A. Lemon/Lime fits #8 model B. Orange fits #7 & #8 models C. Grapefruit fits #7 & #8 models	16	Rubber Feet (set of 3)	41B	Centrifugal Motor Switch-115V
2R	Extracting Bulb Set w/o metal insert (Only use with 17R) AR. Lemon/Lime fits #8 model BR. Orange fits #7 & #8 models CR. Grapefruit fits #7 & #8 models	17	Shaft Tip w/Pin (only use w/2A, 2B and/or 2C not illustrated)	41B1	Centrifugal Motor Switch-230V
3	Lever Lock & Screws for Strainer (for #7 juicer-not illustrated)	17C	Shaft Tip w/Pin (graduated tip-not illustrated)	43	Motor Bearing-top or bottom
4	Strainer w/Lever Lock & Screws (for #7 juicer-not illustrated)	17R	Shaft Tip w/Pin (flat tip-only use w/2AR, 2BR, 2CR not illustrated)	44-1	Rotor w/Shaft 115/60
4A	Strainer for #8 juicer	18	Eccentric Housing Gasket (incl'd w/20)	44B1	Rotor w/Shaft 230/50
4C	Strainer Puller for #8 juicer	18A	Shaft Tip Gasket (fits 17C & 17R)	44D	Rotor w/Shaft 230/60
6	Bowl Support Screws, Spacers, Washers (set of 3)	19	Brass Tube	45	Motor Bearing-top or bottom
7	Umbrella Ring w/Set Screw & Gasket (not illustrated)	20-7	Eccentric Housing w/Bearings, Gasket & Brass Tube #7 juicer	46	Motor Screws (set of 4)
7B	Umbrella Seal (only for use on grooved eccentric housings, replaces 7, 8, & 9)	20-8	Eccentric Housing w/Bearings, Gasket & Brass Tube #8 juicer	47	Stator (winding) 115/60
8	Umbrella Ring Set Screw (incl'd w/7 not illustrated)	20-8C	Eccentric Mechanism #8 juicer	47B	Stator (winding) 230/50
9	Umbrella Ring Gasket (incl'd w/7 not illustrated)	22	Eccentric Hub w/Bearing & Screw	48	Tension Washers (set of 2)
10	Plastic Bowl Support only (incl'd w/1)	24	Eccentric Hub Hex Screw 1/4-20x1/2	50	Electric Cord Strain Relief; J-2
10A	Plastic Dome only (incl'd w/1)	25	Spring Screw to Motor Mount 10-32	50B	Electric Cord Strain Relief; J-1, J-4
10B	Plastic Spout only (incl'd w/1)	26	Lock Washers incl. 36 (2) & 37 (3)	52	Perforated Base Plate
11	Bowl Support Gasket	27	Bronze Bushing Coil Spring to Motor Mount 9/64 x 3/8 x 1/4	53	Ground Screw w/Lock Washer for J-1, J-2 (set of 2)
12	Chrome Motor Housing	28	Coil Spring	54	Base Plate Screws for J-1, J-4 3/ea
13	Electric Cord Bushing	29	Bronze Bushing Coil spring to Ecc. Housing 9/63 x 3/8 x 3/16	57	Logo Plate, Label & Fastners
14	Electric Cord 115/60	30	Arm Screw-Small 1/4-32 x 1 1/16	61	Thermal Overload 115/60
14A	Robber Cord-Export	31	Arm Screw-Large 1/4-20 x 29/32	62	Thermal Overload 230/50
15	Toggle Switch w/Switch Guard (not illustrated)	33	Spring Screw to Ecc. Housing 1/4-32	64	Model #7 or #8 Motor 115/60 4.3 amp - 1725 rpm
15D	Rocker Switch w/Switch Seal	34	Eccentric Arm	65	Model #7 or #8 Motor 230/50 2.5 amp - 1425 rpm
		35	Ecc. Arm Bronze Bushing 1/2 x 3/16 x 5/16	67	Model #7 or #8 Motor 230/60 2.2 amp - 1725 rpm
		36	Lock Washer, 3/16, Internal Tooth		
		37	Lock Washer, 1/4, Internal Tooth		
		40	Top Motor Casting		

Sunkist

Commercial Series Citrus Juicer Information

Effective: November 1, 2016



Specifications

- Chrome plated steel housing. Corrosion proof plastic dome, spout & bowl support
- Listed by.....**UL, CUL, CE, NSF**
- Shipping weight.....37 pounds
- Net weight.....31 pounds
- Overall dimensions.....17" high, 8" diameter
- Cube.....1.12
- Carton size.....22 3/4" x 9 3/4" x 9 3/4"
- Horsepower.....1/4 continuous-operating

www.sunkistequipment.com


All prices quoted are FOB Fontana, CA and are subject to change without notice. These prices are also listed in AutoQuotes. The amount of any present or future tax shall be paid by the purchaser. There is **no** minimum order fee for orders we drop ship to your customer, or for orders being sent to service centers for equipment waiting to be repaired. A service charge of \$10.00 will be added to all orders less than \$50.00 that are shipped to your location or one of your warehouses. CONTACT: Sunkist Foodservice Equipment Customer Service: 800.383.7141 or 909.355.4149. FAX orders to 909.822.2125. **Products must not be returned without a return authorization #.**



Quality products. Built to last.

commercial series
citrus juicer



- ✓ Quiet, yet heavy-duty, high-torque motor
- ✓ Unique oscillating strainer
- ✓ Able to extract up to 20 gallons (76 liters) an hour
- ✓ Years of proven performance
- ✓ 3 Interchangeable extracting bulbs
Orange, Lemon/Lime & Grapefruit
- ✓ Quick & easy cleaning – 4 lift-off
dishwasher safe parts
- ✓ Two-year warranty
- ✓ Crafted in the USA 

Available from your
Foodservice Equipment Dealer

SUNKIST

Tel:800.383.7141 Fax:909.822.2125

10730 Bell Court

Rancho Cucamonga, CA 91730

www.sunkistequipment.com





SPECIFICATION SHEET

ITEM # 620L

ITEM DESCRIPTION: FOOD PREP TABLE

MANUFACTURER: EAGLE MODEL #T2424STE-BS

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

WITH BACKSPLASH - ORDER WITH 1 5/8" DIAMETER LEGS

ISSUE DATE:

5/23/2018

ITEM # 620L



Profit from the Eagle Advantage®

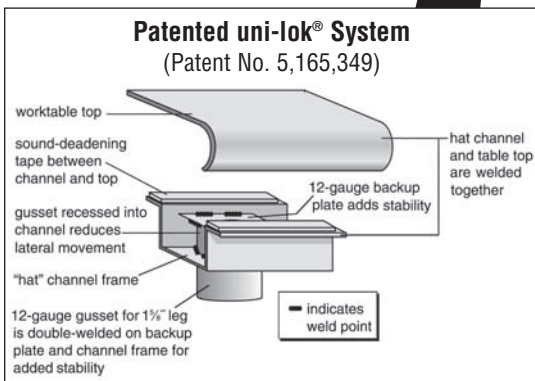
Specification Sheet

Short Form Specifications

Eagle worktables, Spec-Master® series, model _____ . Top to be constructed of 14/304 stainless steel with 1½" roll on front, 4½" backplash, and sides turned down 90°. Open front with 1¼" O.D., stainless steel tubular cross bracing on sides and rear. Top reinforced with welded hat channels and sound deadened. Constructed with uni-lok® patented gusset system with the gussets recessed into the hat channels to reduce lateral movement. Legs to be 1½" O.D., stainless steel tubing, with stainless steel gussets and 1" adjustable stainless steel bullet feet.



worktable with backplash and tubular base —shown with optional drawer



Item No.: _____
 Project No.: _____
 S.I.S. No.: _____

Worktables with Backsplash and Stainless Steel Tubular Base —Spec-Master® Series

MODELS:

- | | | | |
|---|---------------------------------------|---------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> T2424STE-BS | <input type="checkbox"/> T24108STE-BS | <input type="checkbox"/> T3072STE-BS | <input type="checkbox"/> T3660STE-BS |
| <input type="checkbox"/> T2430STE-BS | <input type="checkbox"/> T24120STE-BS | <input type="checkbox"/> T3084STE-BS | <input type="checkbox"/> T3672STE-BS |
| <input type="checkbox"/> T2436STE-BS | <input type="checkbox"/> T24132STE-BS | <input type="checkbox"/> T3096STE-BS | <input type="checkbox"/> T3684STE-BS |
| <input type="checkbox"/> T2448STE-BS | <input type="checkbox"/> T24144STE-BS | <input type="checkbox"/> T30108STE-BS | <input type="checkbox"/> T3696STE-BS |
| <input type="checkbox"/> T2460STE-BS | <input type="checkbox"/> T3030STE-BS | <input type="checkbox"/> T30120STE-BS | <input type="checkbox"/> T36108STE-BS |
| <input type="checkbox"/> T2472STE-BS | <input type="checkbox"/> T3036STE-BS | <input type="checkbox"/> T30132STE-BS | <input type="checkbox"/> T36120STE-BS |
| <input type="checkbox"/> T2484STE-BS | <input type="checkbox"/> T3048STE-BS | <input type="checkbox"/> T30144STE-BS | <input type="checkbox"/> T36132STE-BS |
| <input type="checkbox"/> T2496STE-BS | <input type="checkbox"/> T3060STE-BS | <input type="checkbox"/> T3648STE-BS | <input type="checkbox"/> T36144STE-BS |

Tabletop

- Patented uni-lok® gusset system (patent #5,165,349): gussets are recessed into hat channel, reducing lateral movement.
- Top reinforced with welded-on hat channel.
- Sound-deadened between top and channels.
- 4½" (114mm)-high 90° backplash with 1" (25mm) turn at 90°.
- 1½" (38mm)-diameter 180° rolled edge on front. Ends are turned down 90°, providing for flush installations when required.
- 14 gauge type 304 polished stainless steel.

Crossbracing—1¼" (38mm)-diameter

- Heavy gauge stainless steel.
- Aluminum castings join crossbraces, legs and rear brace.

Legs—1½" (41mm)-diameter

- Tables 96" (2438mm) and longer come with six legs or more.
- Heavy gauge stainless steel.
- 1" (25mm) adjustable stainless steel feet.

Options / Accessories

- | | |
|--|--|
| <input type="checkbox"/> Drawer | <input type="checkbox"/> Duplex receptacles |
| <input type="checkbox"/> Lock | <input type="checkbox"/> Pot rack |
| <input type="checkbox"/> Casters | <input type="checkbox"/> Sink |
| <input type="checkbox"/> Stainless steel bullet feet | <input type="checkbox"/> Stabilizer Bar (for 30"- and 36"-wide tables) |
| <input type="checkbox"/> Overshelves | |



EAGLE GROUP
 100 Industrial Boulevard, Clayton, DE 19938-8903 USA
 Phone: 302-653-3000 • Fax: 302-653-2065
 www.eaglegrp.com

Foodservice Division: Phone 800-441-8440
MHC/Retail Display Divisions: Phone 800-637-5100

For custom configuration or fabrication needs, contact our **SpecFAB® Division**.
 Phone: 302-653-3000 • Fax: 302-653-3091 • e-mail: specfab@eaglegrp.com

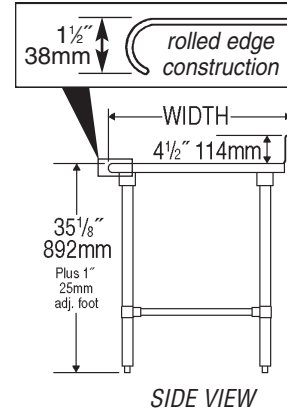
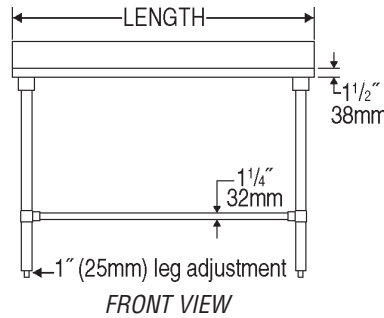
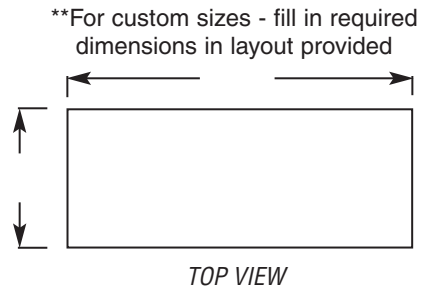
EG10.47C Rev. 07/08

Spec sheets available for viewing, printing or downloading from our online literature library at www.eaglegrp.com



Item No.: _____
 Project No.: _____
 S.I.S. No.: _____

Worktables with Backsplash and Stainless Steel Tubular Base —Spec-Master® Series



model #	# of legs	width		length		weight	
		in.	mm	in.	mm	lbs.	kg
T2424STE-BS	4	24"	610	24"	610	45	20.4
T2430STE-BS	4	24"	610	30"	762	51	23.1
T2436STE-BS	4	24"	610	36"	914	56	25.4
T2448STE-BS	4	24"	610	48"	1219	67	30.4
T2460STE-BS	4	24"	610	60"	1524	78	35.4
T2472STE-BS	4	24"	610	72"	1829	89	40.4
T2484STE-BS	4	24"	610	84"	2134	100	45.4
T2496STE-BS	6	24"	610	96"	2438	111	50.3
T24108STE-BS	6	24"	610	108"	2743	122	55.8
T24120STE-BS	6	24"	610	120"	3048	133	60.3
T24132STE-BS	8	24"	610	132"	3353	144	65.3
T24144STE-BS	8	24"	610	144"	3658	155	70.3
T3030STE-BS	4	30"	762	30"	762	56	25.4
T3036STE-BS	4	30"	762	36"	914	62	28.1
T3048STE-BS	4	30"	762	48"	1219	73	33.1
T3060STE-BS	4	30"	762	60"	1524	84	38.1
T3072STE-BS	4	30"	762	72"	1829	95	43.1
T3084STE-BS	4	30"	762	84"	2134	106	48.1
T3096STE-BS	6	30"	762	96"	2438	117	53.1
T30108STE-BS	6	30"	762	108"	2743	128	58.1
T30120STE-BS	6	30"	762	120"	3048	139	63.1
T30132STE-BS	8	30"	762	132"	3353	150	68.0
T30144STE-BS	8	30"	762	144"	3658	161	73.0
T3648STE-BS	4	36"	914	48"	1219	78	35.4
T3660STE-BS	4	36"	914	60"	1524	89	40.4
T3672STE-BS	4	36"	914	72"	1829	100	45.4
T3684STE-BS	4	36"	914	84"	2134	111	50.3
T3696STE-BS	6	36"	914	96"	2438	122	55.3
T36108STE-BS	6	36"	914	108"	2743	133	60.3
T36120STE-BS	6	36"	914	120"	3048	144	65.3
T36132STE-BS	8	36"	914	132"	3353	155	70.3
T36144STE-BS	8	36"	914	144"	3658	166	75.3

EAGLE GROUP
 100 Industrial Boulevard, Clayton, DE 19938-8903 USA
 Phone: 302-653-3000 • Fax: 302-653-2065
 www.eaglegrp.com

Foodservice Division: Phone 800-441-8440
 MHC/Retail Display Divisions: Phone 800-637-5100

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Rev. 07/08

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SPECIFICATION SHEET

ITEM # 631M

ITEM DESCRIPTION: FILET TABLE (30"X30")

MANUFACTURER: ATLANTA CUSTOM FABRICATORS MODEL #3ACF355

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

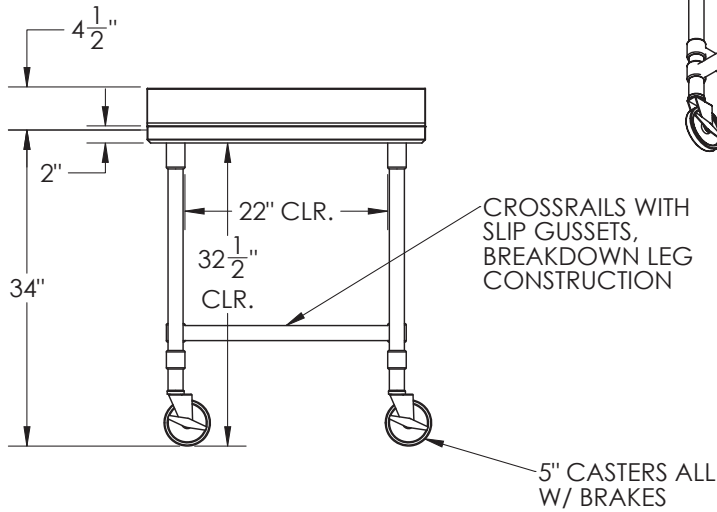
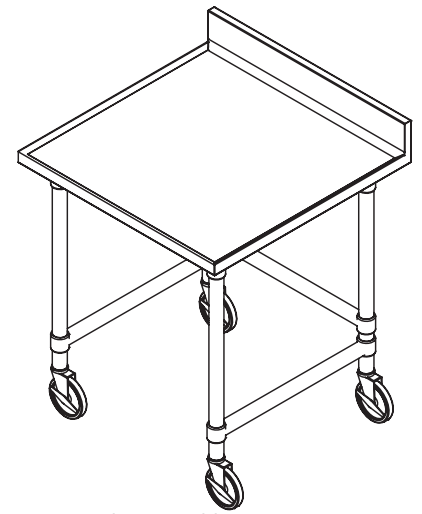
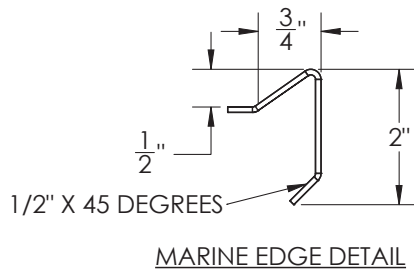
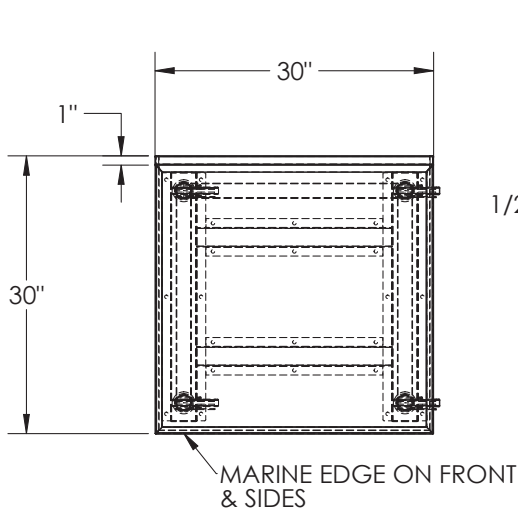
REMARKS:

REMARKS FROM SCHEDULE

ISSUE DATE:

8/5/2021

ITEM # 631M



WELDED STAINLESS STEEL HAT CHANNEL SUPPORTS

CONSTRUCTION NOTES
FABRICATED PER NSF #2

TOPS - 14 GA. SS, ALL WELDED ONE PIECE CONSTRUCTION, EDGES AS NOTED. 3/4" R COVED CORNERS, SOUND DEADEN.
UNDERBRACING - S/S CHANNEL & ANGLE WHERE SHOWN.
GUSSETS - COMPONENT HARDWARE MODEL A18-0206(STANDARD) FULLY WELD TO UNDERBRACING.
LEGS - 1 5/8" O.D. 16 GA. SS TUBING
CROSSRAILS - 1 5/8" O.D. 16 GA. SS TUBING WELDED TO SET SCREW GUSSETS TO CONNECT LEGS

ALL STAINLESS STEEL USED IN MANUFACTURING IS NON-MAGNETIC, NSF APPROVED, TYPE 304

3ACF355: BREAKDOWN FILET TABLE
ONE (1) REQUIRED SCALE: 3/4" = 1'-0"

ATLANTA CUSTOM FABRICATORS		
JOB: 3ACF355 BREAKDOWN FILET TABLE		
DRAWN BY: BPC	DEALER: TRIMARK STRATEGIC	
SCALE: NOTED	DATE: 3/10/20	SHEET No: 1 of 1
REVISION: ---	FAB. No: ---	



SPECIFICATION SHEET

ITEM # 649

ITEM DESCRIPTION: MODIFIED DUAL LINE TABLE

MANUFACTURER: EAGLE MODEL # (SEE SCHEDULE)

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

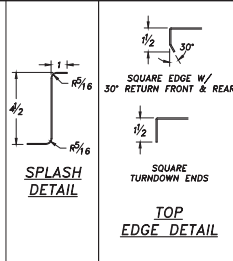
(SEE SPECS)

ISSUE DATE:

11/27/2018

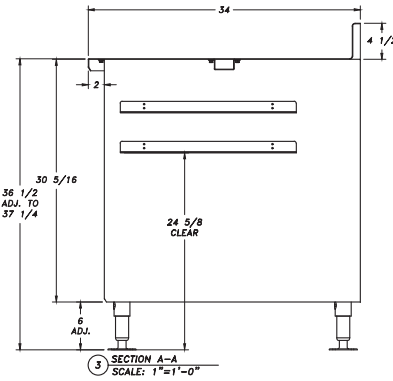
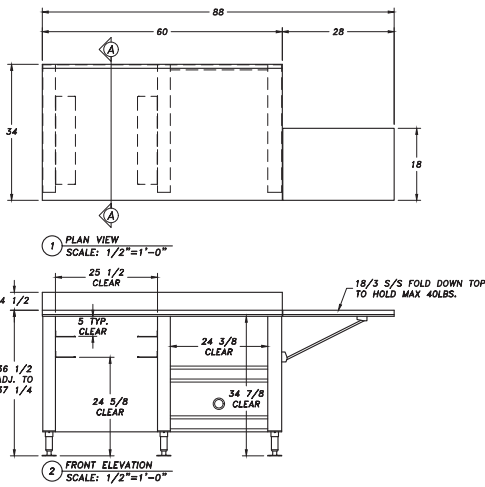
ITEM # 649

FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" REAR CUTOUT W/ 2 1/8" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 16/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
 FRAMING: FULL LENGTH S/S HAT CHANNEL FRAMING
 BASE CABINET: 18/4 S/S SPOT WELDED CONSTRUCTION W/ INTEGRALLY FORMED FLANGES SECURED TO TOP WITH S/S STUDS & LOCK NUTS
 BOTTOM PANEL: 18/4 S/S BOTTOM PANEL W/ 1/2" UPTURNS AT REAR & ENDS
 LEG CHANNELS: FULL LENGTH CHANNELS WITH EAGLE PATENTED UNI-LOCK SYSTEM. S/S GUSSETS WELDED TO 12GA S/S PLATE INSIDE LEG CHANNELS
 LEGS: 1 1/2" TYPE 304 S/S TUBING
 FEET: S/S FLANGED BULLET FEET W/ 1" ADJUSTABILITY
 SOUND DEADENING: DOUBLE SIDED ADHESIVE TAPE BETWEEN BASE/FRAMING & UNDERSIDE OF TOP

EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION
C	RWD	3-19-20	CHANGED TO DOUBLE ANGLE SLIDE

TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 10th St.
 Overland Park, KS 66204
 Phone: 913-241-3300
 Fax: 913-241-3301
 www.eaglecorp.com

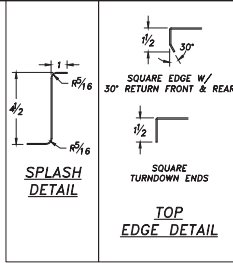
APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:		DATE:

ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS OTHERWISE NOTED
 BY: RWD
 CK:
 DATE: 8.25.17
 SH: 1 of 8

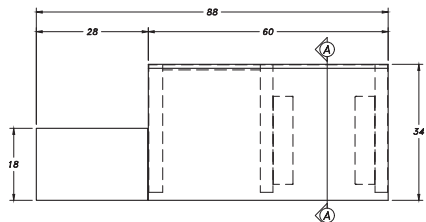
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FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/2" I.D. RUBBER GROMMET

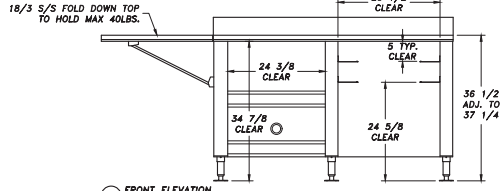


EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 18/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
 FRAMING: FULL LENGTH S/S HAT CHANNEL FRAMING
 BASE CABINET: 18/4 S/S SPOT WELDED CONSTRUCTION W/ INTEGRALLY FORMED FLANGES SECURED TO TOP WITH S/S STUDS & LOCK NUTS
 BOTTOM PANEL: 18/4 S/S BOTTOM PANEL W/ 1/2" UPTURNS AT REAR & ENDS
 LEG CHANNELS: FULL LENGTH CHANNELS WITH EAGLE PATENTED UNI-LOCK SYSTEM. S/S GUSSETS WELDED TO 12GA S/S PLATE INSIDE LEG CHANNELS
 LEGS: 1 1/2" TYPE 304 S/S TUBING
 FEET: S/S FLANGED BULLET FEET W/ 1" ADJUSTABILITY
 SOUND DEADENING: DOUBLE SIDED ADHESIVE TAPE BETWEEN BASE/TRAMING & UNDERSIDE OF TOP

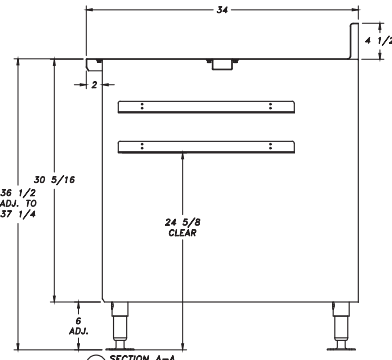
EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



① PLAN VIEW
SCALE: 1/2"=1'-0"



② FRONT ELEVATION
SCALE: 1/2"=1'-0"



③ SECTION A-A
SCALE: 1"=1'-0"

REV	BY	DATE	DESCRIPTION
C	RWD	3-19-20	CHANGED TO DOUBLE ANGLE SLIDE

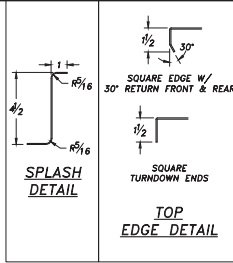
TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:	DATE:	
ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS OTHERWISE NOTED
 BY: RWD
 CK:
 DATE: 8.25.17
 SH: 2 of 8

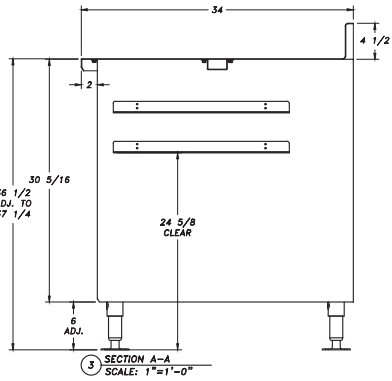
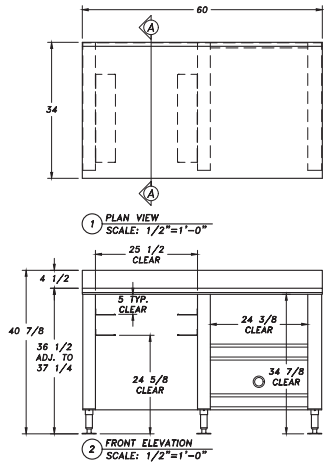
Y# YCFA-DL-0034-00

FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/4" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 16/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
 FRAMING: FULL LENGTH S/S HAT CHANNEL FRAMING
 BASE CABINET: 18/4 S/S SPOT WELDED CONSTRUCTION W/ INTEGRALLY FORMED FLANGES SECURED TO TOP WITH S/S STUDS & LOCK NUTS
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 LEGS: 1 1/2" TYPE 304 S/S TUBING
 FEET: S/S FLANGED BULLET FEET W/ 1" ADJUSTABILITY
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EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION

TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

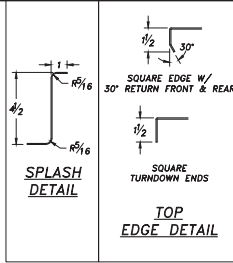
EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St. - Overland Park, KS 66204
 (913) 666-1000
 www.eaglecorp.com

APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:	DATE:	
ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS NOTED
 BY: RWD
 CK:
 DATE: 9.25.17
 SH: 3 of 8

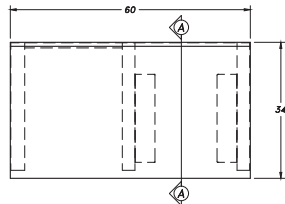
Y# YCFA-DL-0035-00

FEATURES/COMPONENTS							
TAG	QTY	MANUF/VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
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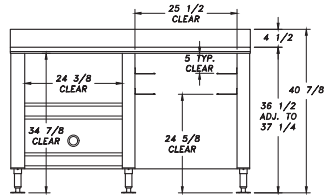


EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 16/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
 FRAMING: FULL LENGTH S/S HAT CHANNEL FRAMING
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 LEGS: 1 1/2" TYPE 304 S/S TUBING
 FEET: S/S FLANGED BULLET FEET W/ 1" ADJUSTABILITY
 SOUND DEADENING: DOUBLE SIDED ADHESIVE TAPE BETWEEN BASE/FRAMING & UNDERSIDE OF TOP

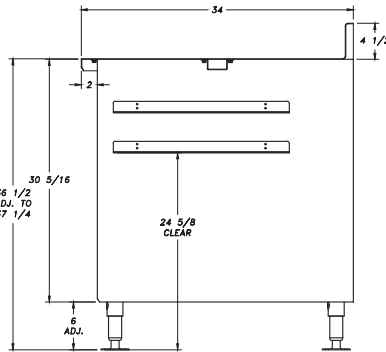
EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



① PLAN VIEW
 SCALE: 1/2"=1'-0"



② FRONT ELEVATION
 SCALE: 1/2"=1'-0"



③ SECTION A-A
 SCALE: 1"=1'-0"

REV	BY	DATE	DESCRIPTION

TRIMARK STRATEGIC	CHICK-FIL-A	QUOTE #
	DUAL LINE TABLES	CONTROL #

EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St. - Overland Park, KS 66210
 (913) 666-1000
 WWW.EAGLECORP.COM

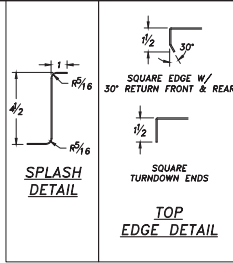
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REVIEWED BY:		
COMPANY:		DATE:

ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS NOTED
 BY: RWD
 CK:
 DATE: 8.25.17
 SH: 4 of 8

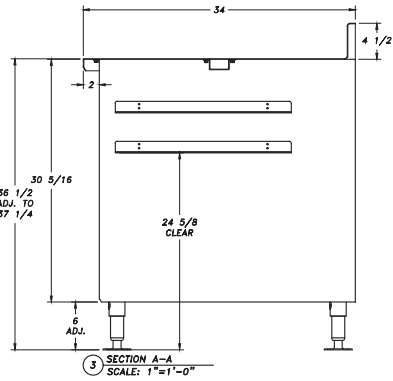
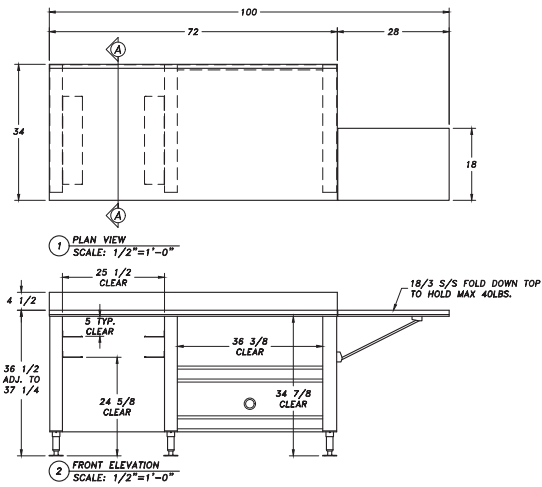
Y# YCFA-DL-0036-00

FEATURES/COMPONENTS							
TAG	QTY	MANUF/VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/2" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
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EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION
C	RWD	3-19-20	CHANGED TO DOUBLE ANGLE SLIDE

TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

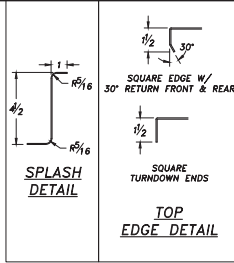
EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St., Suite 100
 Overland Park, KS 66204
 (913) 666-3300
 www.eaglecorp.com

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS NOTED
 BY: RWD
 CK:
 DATE: 9.25.17
 SH: 5 of 8

Y# YCFA-DL-0037-00

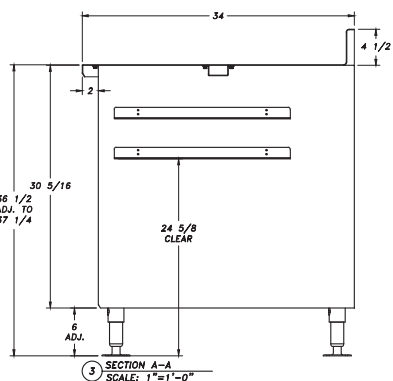
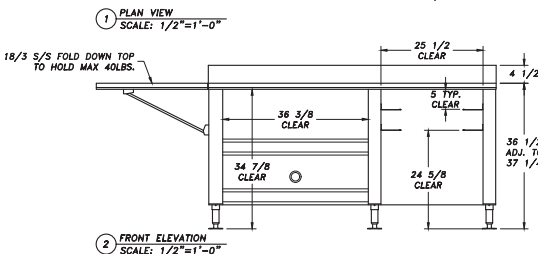
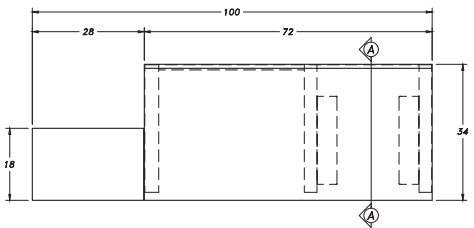
APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:		DATE:
ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/2" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
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EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION
C	RWD	3-19-20	CHANGED TO DOUBLE ANGLE SLIDE

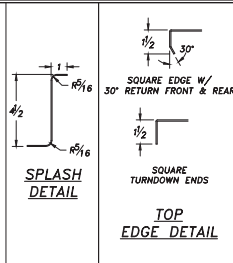
TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St. #100
 Overland Park, KS 66210
 TEL: 913-666-3300 FAX: 913-666-3301
 WWW.EAGLE-USA.COM

APPROVED	APP AS NOTED	RESUBMIT	SCALE: AS NOTED
REVIEWED BY:			TOL: +/- 1/16" ANG: +/- 1°
COMPANY:		DATE:	ALL DIMS ARE UNLESS NOTED
ITEM #	QTY	DESCRIPTION	BY: RWD
CONSULTANT:		CUSTOM CABINET	CK:
			DATE: 8.25.17
			SHT: 6 of 8

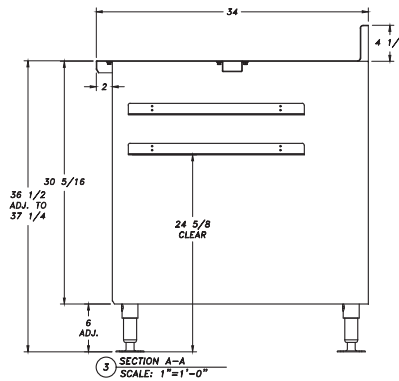
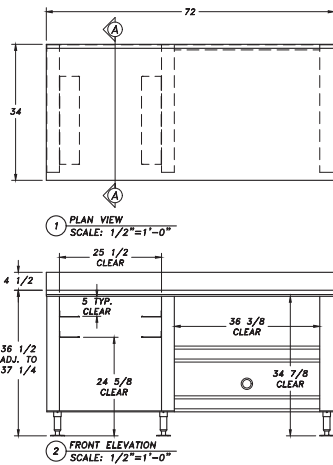
Y# YCFA-DL-0038-00

FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/2" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 16/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
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EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION

TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St. - Overland Park, KS 66210
 (913) 666-1000
 WWW.EAGLE-USA.COM

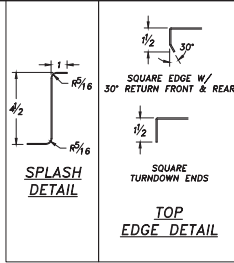
APPROVED	APP AS NOTED	RESUBMIT
REVIEWED BY:		
COMPANY:		DATE:

ITEM #	QTY	DESCRIPTION
CONSULTANT:		CUSTOM CABINET

SCALE: AS NOTED
 TOL: +/- 1/16" ANG: +/- 1°
 ALL DIMS ARE UNLESS NOTED
 BY: RWD
 CK:
 DATE: 8.25.17
 SH: 7 of 8

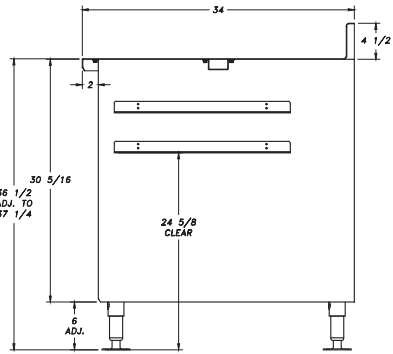
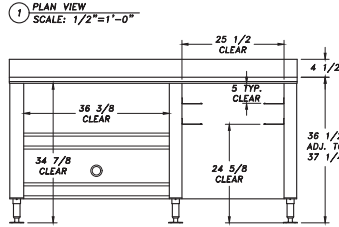
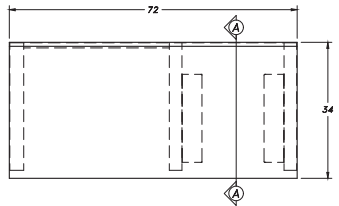
Y# YCFA-DL-0039-00

FEATURES/COMPONENTS							
TAG	QTY	MANUF./VENDOR	MODEL#	DESCRIPTION	SUPPLIED	INSTALLED	DETAILS/REMARKS
①	1	EAGLE	#377991	RUBBER GROMMET	EAGLE	OTHERS	2 1/2" TOP CUTOUT W/ 2 1/2" I.D. RUBBER GROMMET



EAGLE FABRICATION DETAILS
 TOP: 14/3 S/S #4 SATIN FINISH
 ANGLE SLIDES: 16/3 S/S ANGLE SLIDES W/ DIE RAISED EDGES & REAR STOPS WELDED TO 14/3 S/S VERTICAL ANGLE SUPPORTS & BOLTED TO UNDERSIDE OF TABLE FRAMING
 FRAMING: FULL LENGTH S/S HAT CHANNEL FRAMING
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 LEGS: 1 1/2" TYPE 304 S/S TUBING
 FEET: S/S FLANGED BULLET FEET W/ 1" ADJUSTABILITY
 SOUND DEADENING: DOUBLE SIDED ADHESIVE TAPE BETWEEN BASE/TRAMING & UNDERSIDE OF TOP

EAGLE PATENTED UNI-LOCK SYSTEM
 18GA CHANNEL W/ 12GA SUPPORT PLATE WELDED INSIDE FOR STABILITY. GUSSET WELDED TO CHANNEL. APPLICABLE WHERE HAT CHANNEL FRAMING IS SPECIFIED



REV	BY	DATE	DESCRIPTION

TRIMARK STRATEGIC
 CHICK-FIL-A
 DUAL LINE TABLES
 CONTROL # QUOTE #

EAGLE
 Special FAB Division
 Quality Stainless & Millwork Fabrication
 10000 W. 100th St. - Overland Park, KS 66210
 913-641-5000
 WWW.EAGLECORP.COM

APPROVED	APP AS NOTED	RESUBMIT	SCALE: AS NOTED
REVIEWED BY:			TOL: +/- 1/16" ANG: +/- 1°
			ALL DIMS ARE UNLESS NOTED
COMPANY:		DATE:	BY: RWD
			CK:
ITEM #	QTY	DESCRIPTION	DATE: 8.25.17
CONSULTANT:		CUSTOM CABINET	SHT: 8 of 8

Y# YCFA-DL-0040-00



SPECIFICATION SHEET

ITEM # 702

ITEM DESCRIPTION: WALL MOUNT SINGLE RAIL

MANUFACTURER: U-LINE MODEL #H-4681

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

7/29/2021

ITEM # 702

Wall Mount Single Rail - 48 x 3"

Maximum storage in minimum space.

- Mounts to walls, workbenches and work trucks.
- Includes mounting hardware.



[More Images](#)

MODEL NO.	SIZE W x H	WT. (LBS.)	PRICE EACH		IN STOCK SHIPS TODAY
			1	2+	
H-4681	48 x 3"	4	\$30	\$28	<input type="text" value="1"/> <input type="button" value="ADD"/>

MATERIAL:

- 14 gauge steel

CAPACITY:

- 110 lbs evenly distributed across entire unit.

Bin Model #	Outside Dimensions	Rail Capacity
S-12413	5 1/2 x 4 x 3"	11 bins
S-12414	7 1/2 x 4 x 3"	11 bins
S-20581	9 1/2 x 6 x 5"	8 bins
S-13536	11 x 4 x 4"	11 bins *Same as H-4682 kit.
S-12415	11 x 5 1/2 x 5"	8 bins *Same as H-4684 kit.
S-12416	11 x 8 x 7"	5 bins
S-12417	11 x 11 x 5"	3 bins
S-13537	11 x 16 1/2 x 5"	3 bins
S-12418	15 x 5 1/2 x 5"	6 bins
S-12419	15 x 8 x 7"	5 bins
S-12420	15 x 16 1/2 x 7"	4 bins

*Note: Must order in full carton qty's.

MOUNTING HARDWARE:

- (12) Phillips head screws
- (12) Anchors

Availability: [In Stock](#)
Unit Weight: 4.25 lbs.

[Email Item](#)

Country of Origin: USA



SPECIFICATION SHEET

ITEM # 711

ITEM DESCRIPTION: DUNNAGE RACK (22"x30")

MANUFACTURER: INTERMETRO MODEL #HP2230PDMB

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

5/23/2018

ITEM # 711



Item # _____

Job _____

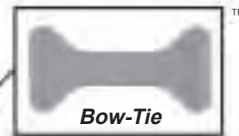


Bow-Tie™ Dunnage Racks with *Microban® Antimicrobial Product Protection

Metro® BOW-TIE™ DUNNAGE RACKS with *Microban® Antimicrobial Product Protection

Metro Bow-Tie Dunnage Racks with built-in Microban® antimicrobial product protection are protected from bacteria, mold, mildew and fungi that cause odors, stains and product degradation.

- **Easy to Clean:** Smooth rotomolded polymer offers snag-free surfaces and promotes easy cleaning. Microban® antimicrobial product protection keeps dunnage racks “cleaner between cleanings” by inhibiting bacteria, mold, mildew and fungi that cause odors, stains and product degradation.
- **Versatile:** Racks join together easily without tools in “end-to-end” and “back-to-back” configurations with the exclusive bow-tie™ feature.
- **Durable:** Rust and corrosion proof polymer construction.
- **Strong:** Heavy-duty construction gives racks the strength to hold up to 3,000 lbs. (1,365kg) per unit.
- **Unique Design:** Racks have front to back slots for easier loading and unloading and superior air flow which promotes longer shelf life.
- **NSF Listed**
- **UPS Shippable**
- **No Assembly Required.**



Racks joined in “end-to-end” configuration.

*MICROBAN® and the MICROBAN® symbol are registered trademarks of the Microban Products Company, Huntersville, NC.



InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com

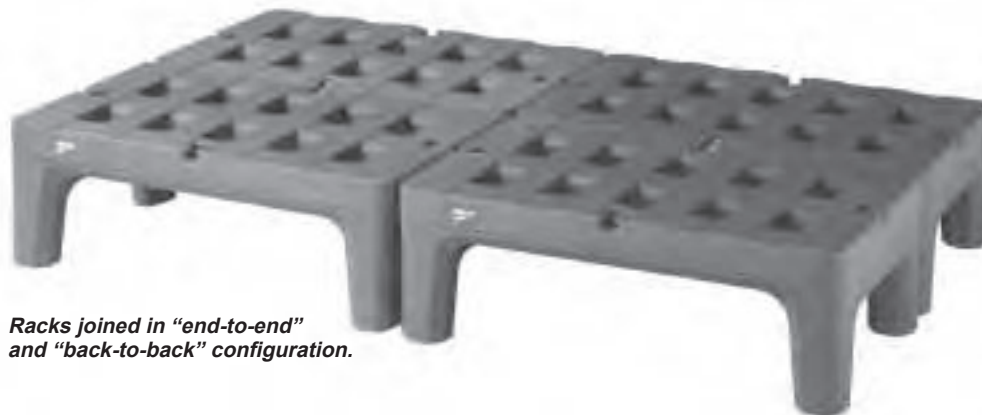


9.099A

Job _____

Metro® BOW-TIE™ DUNNAGE RACKS

with *Microban® Antimicrobial Product Protection



Racks joined in "end-to-end" and "back-to-back" configuration.

Specifications

- Rotationally molded grey polyethylene construction
- Slotted top for air circulation
- Slots run front to back for easy loading and unloading
- All rack edges have generous radius to prevent product snagging or marking
- Weight capacity: 30" (762mm) and 36" (914mm) racks — 1,500 lbs. (683kg)
48" (1219mm) and 60" (1524mm) racks — 3,000 lbs. (1365kg)
- Each rack provided with separate polymer tie for joining racks in "end-to-end" and "back-to-back" configurations. Rack has a recess centered each side of top surface to accept polymer tie.
- Joining system bow-tie drops in and is removed from top without the use of tools.

Cat. No.	Width		Length		Height		Approx. Pkg. Wt.	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lb.)	(kg)
HP2230PDMB	22	559	30	762	12	305	24	10.9
HP2236PDMB	22	559	36	914	12	305	26	11.8
HP2248PDMB	22	559	48	1219	12	305	34	15.4
HP2260PDMB	22	559	60	1524	12	305	42	19

All Metro Catalog Sheets are available on our Web Site: www.metro.com



InterMetro Industries Corporation

North Washington Street, Wilkes-Barre, PA 18705
Phone: 570-825-2741 • Fax: 570-825-2852

For Product Information Call: 1-800-433-2232

L03-105A
Printed in U.S.A. Rev. 2/04

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SPECIFICATION SHEET

ITEM # 712

ITEM DESCRIPTION: DUNNAGE RACK (22"x36")

MANUFACTURER: INTERMETRO MODEL #HP2236PDMB

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

ISSUE DATE:

5/23/2018

ITEM # 712



Item # _____

Job _____

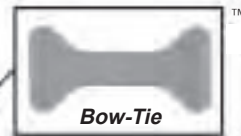


Bow-Tie™ Dunnage Racks with *Microban® Antimicrobial Product Protection

Metro® BOW-TIE™ DUNNAGE RACKS with *Microban® Antimicrobial Product Protection

Metro Bow-Tie Dunnage Racks with built-in Microban® antimicrobial product protection are protected from bacteria, mold, mildew and fungi that cause odors, stains and product degradation.

- **Easy to Clean:** Smooth rotomolded polymer offers snag-free surfaces and promotes easy cleaning. Microban® antimicrobial product protection keeps dunnage racks “cleaner between cleanings” by inhibiting bacteria, mold, mildew and fungi that cause odors, stains and product degradation.
- **Versatile:** Racks join together easily without tools in “end-to-end” and “back-to-back” configurations with the exclusive bow-tie™ feature.
- **Durable:** Rust and corrosion proof polymer construction.
- **Strong:** Heavy-duty construction gives racks the strength to hold up to 3,000 lbs. (1,365kg) per unit.
- **Unique Design:** Racks have front to back slots for easier loading and unloading and superior air flow which promotes longer shelf life.
- **NSF Listed**
- **UPS Shippable**
- **No Assembly Required.**



Racks joined in “end-to-end” configuration.

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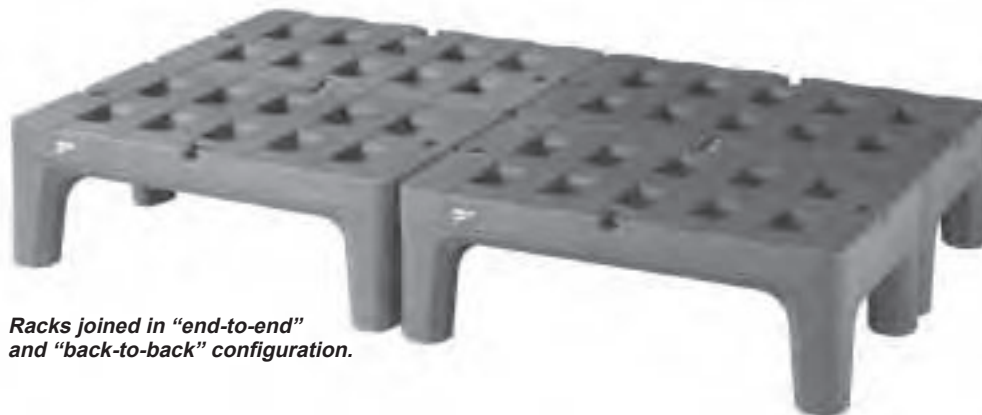


9.09A

Job _____

Metro® BOW-TIE™ DUNNAGE RACKS

with *Microban® Antimicrobial Product Protection



Racks joined in "end-to-end" and "back-to-back" configuration.

Specifications

- Rotationally molded grey polyethylene construction
- Slotted top for air circulation
- Slots run front to back for easy loading and unloading
- All rack edges have generous radius to prevent product snagging or marking
- Weight capacity: 30" (762mm) and 36" (914mm) racks — 1,500 lbs. (683kg)
48" (1219mm) and 60" (1524mm) racks — 3,000 lbs. (1365kg)
- Each rack provided with separate polymer tie for joining racks in "end-to-end" and "back-to-back" configurations. Rack has a recess centered each side of top surface to accept polymer tie.
- Joining system bow-tie drops in and is removed from top without the use of tools.

Cat. No.	Width		Length		Height		Approx. Pkg. Wt.	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lb.)	(kg)
HP2230PDMB	22	559	30	762	12	305	24	10.9
HP2236PDMB	22	559	36	914	12	305	26	11.8
HP2248PDMB	22	559	48	1219	12	305	34	15.4
HP2260PDMB	22	559	60	1524	12	305	42	19

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InterMetro Industries Corporation

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SPECIFICATION SHEET

ITEM # 732D

ITEM DESCRIPTION: DRYING RACK

MANUFACTURER: INTERMETRO

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

METROMAX - (4) MX74P, (2) MX2436G, (2) M4F2436, (2) RPMX36-CBEAM, (2) DR36S, & (1) MTR2436XE

ISSUE DATE:

8/5/2021

ITEM # 732D



Item # _____

Job _____

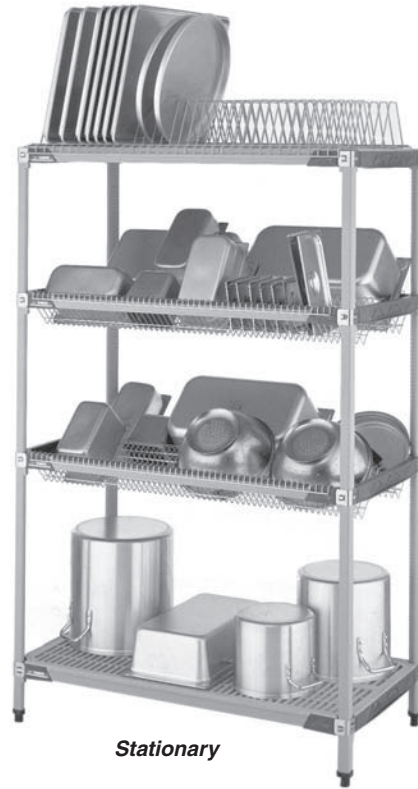
MetroMax i™ DRYING RACK UNITS

The MetroMax i Drying Rack combines the corrosion resistance and strength of MetroMax i with the convenience of a drying rack unit that efficiently holds pots, pans and trays while they dry.

- **Perfect for Damp, Humid Conditions:** All polymer construction with Type 304 Stainless Steel wire drop-in shelves. Posts and shelves offer a lifetime warranty against rust and corrosion. Corrosion-resistant, epoxy-coated drying rack.
- **Versatile:** Shelves are interchangeable to suit all needs. Two intermediate stainless steel shelves provide maximum space utilization for pots, pans and lids. One shelf features an epoxy coated tray drying rack with 34 holding slots. The open grid bottom shelf is great for drying large stock and lobster pots.
- **Cleans Easily:** The top and bottom shelves feature the MetroMax i open-grid shelf mats that lift off easily and fit in the dish machine. Type 304 Stainless Steel wire drop-ins clean easily.
- **Adjustable:** Shelves are adjustable at 1" (25mm) increments along the height of the numbered posts.
- ***Microban Antimicrobial Product Protection:** Built into the high contact areas of the product — shelf mats, posts, and shelf frame pultrusions — to inhibit the growth of bacteria, mold, mildew, and fungus that causes odors, stains, and product degradation. It keeps the product "cleaner between cleanings".
- **Mobile:** Corrosion-resistant polymer casters option allows for easy cleaning and mobility.

Key Benefits

- Fast drying of trays, pans, lids, pots and all pot sink items.
- Promotes food safety by eliminating moisture.
- Interchangeable shelves adapt to all environments.
- Offers an efficient organized drying area.
- Allows superior air circulation.
- Mobile unit allows for easy floor clean-up and transportability.



Stationary



Mobile

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**MetroMax i™
Drying Rack Units**

9.31



MetroMax i™ DRYING RACK UNITS

Specifications

- **Longitudinal Beams & Posts:** Pultrusions — continuous glass fibers and thermo set resin composite with built-in Microban antimicrobial product protection. Exterior surfaces are high-impact thermoplastic resin.
- **End Beams, Adjustable Foot & Socket:** Injection molded polyester thermoplastic resin with glass reinforcement.
- **Drop In — Electro-Polished Type 304 Stainless Steel**
- **Cutting Board/Tray Drying Rack:** Corrosion resistant taupe epoxy coated steel with built-in Microban product protection.
- **Shelf Mats:** Mineral reinforced polypropylene. Mats contain Microban antimicrobial product protection.
- **Stationary Load Capacity:**
300 lbs. (136kg) per wire grid
800 lbs. (363kg) per shelf
- **Mobile Load Capacity:**
800 lbs. (363kg) per shelf
300 lbs. (136kg) per wire grid
800 lbs. (363kg) per unit
- **Polymer Casters:** 2 swivel, 2 brake. Corrosion-resistant, polymer horn, stainless steel axle and hardware. 5" (127mm) diameter.

Dimensions

MetroMax i™ Stationary Drying Rack Unit

Includes two drop-ins and one cutting board/tray drying rack.

Model No.	Width		Length		Height		Approx. Pkd. Wt. (lbs.) (kg)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
PR48X3	24	610	48	1219	75½	1917.5	106 49

MetroMax i™ Mobile Drying Rack Unit

Includes two drop-ins and one cutting board/tray drying rack.

Model No.	Width		Length		Height		Approx. Pkd. Wt. (lbs.) (kg)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
PR48VX3	26	660	50	1270	68	1702	115 52

Dimensions include caster bumpers.

Cutting Board/Tray Drying Rack and Stainless Drop-In Components

- Use to create a unique configuration to fit the application.

Cutting Board & Tray Drying Rack System

- Mount to open grid and solid MetroMax i shelves or open grid MetroMax Q shelves
- 1½" (28mm) or 3" (76mm) slot spacing available.

I and Q Model No.	Width		Length		Height		Wire Spacing (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lbs.)	(kg)
DR36S	24	610	33⅞	860	5¼	133	¾	19	9 4.1
DR48S	24	610	45⅞	1165	5¼	133	¾	19	12 5.4
DR60S	24	610	57⅞	1470	5¼	133	¾	19	15 6.8

Note: Can be retrofitted to original MetroMax and MetroMax Q.

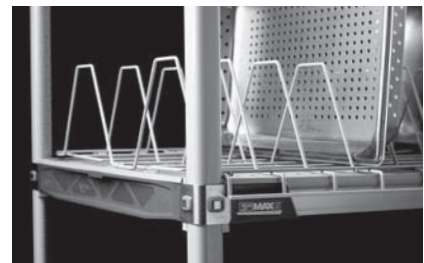
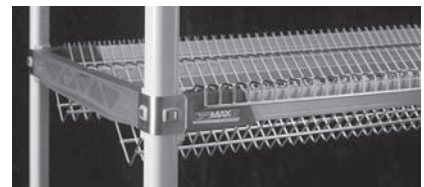
Type 304 Stainless Drop-In Racks

- Drop-ins require a four-sided MetroMax i frame and center beam. See spec sheet 9.25 for open frame and center beam part numbers
- A drop-in rack can be added to a standard MetroMax i shelf by removing the shelf mats and using the shelf frame and center beam.

I and Q Model No.	Fits Shelf (mm)		Upright Spacing (in.) (mm)		Upright Height (in.) (mm)		Tray Capacity	Approx. Pkd. Wt. (lbs.) (kg)	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lbs.)	(kg)
MTR2436XE	24x36	457x914	1⅞	28	6	150	24	13.5	6.1
MTR2448XE	24x48	457x1219	1⅞	28	6	150	34	18.0	8.2
MTR2460XE	24x60	457x1524	1⅞	28	6	150	42	22.5	10.2
MTR2436XEA	24x36	457x914	3	76	6	150	10	9.8	4.4
MTR2448XEA	24x48	457x1219	3	76	6	150	14	13	5.9
MTR2460XEA	24x60	457x1524	3	76	6	150	17	16.3	7.4

Note: Can be retrofitted to original MetroMax and MetroMax Q.

All Metro Catalog Sheets are available on our Web Site: www.metro.com



InterMetro Industries Corporation

North Washington Street, Wilkes-Barre, PA 18705
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For Product Information:
U.S. and Canada: 1.800.433.2232

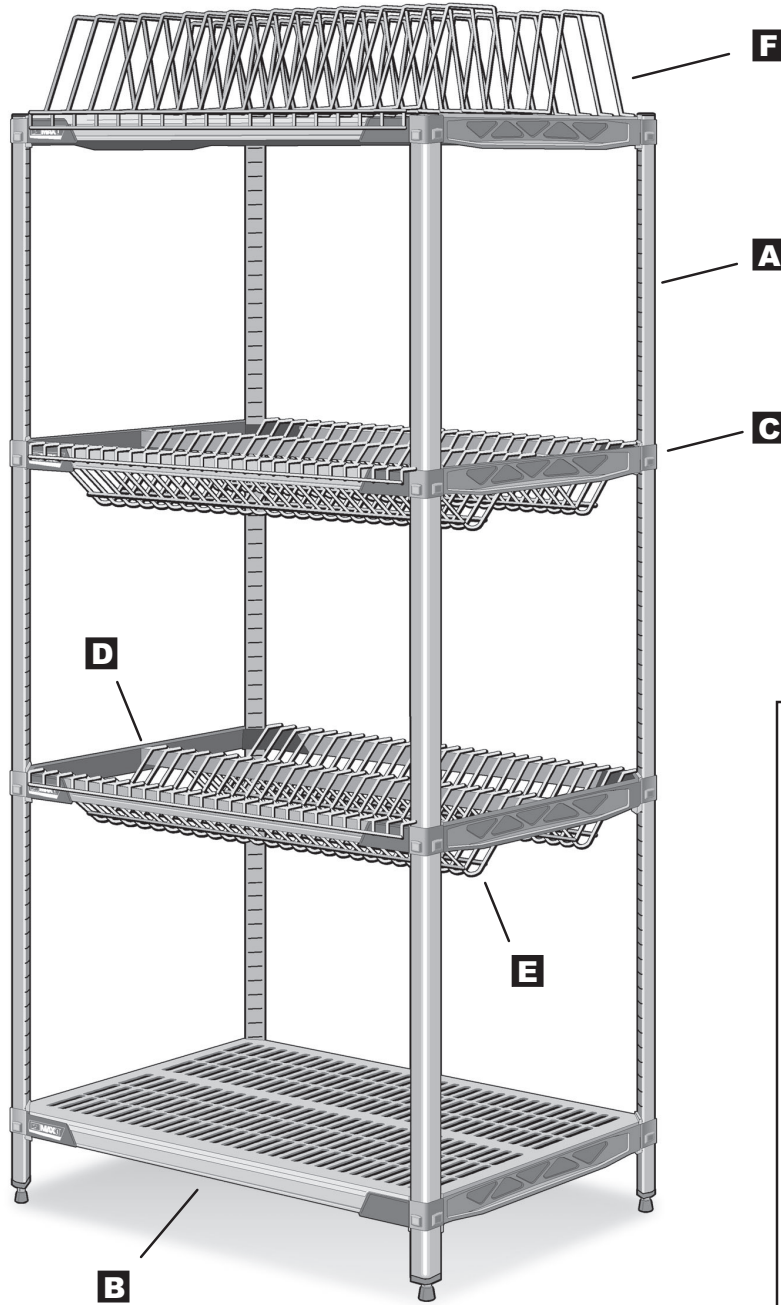
Latin America: 1.561.333.3824
Europe: +31.76.587.7550

Asia/Pacific: +65.6567.8003
Middle East/Africa: +971.4.811.8286

L02-185
Printed in U.S.A. 7/09

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Components			
Part #	Qty.	Description	
A MX74P	4	MetroMax i® Post (74")	
B MX2436G	2	MetroMax i® Grid Shelf (24" x 36")	
C M4F2436	2	Four-sided MetroMax i® Frame (24" x 36")	
D RPMX36-CBEAM	2	MetroMax i® Center Beam (36")	
E DR36S	2	Drop-in Drying Dack (24" x 36")	
F MTR2436XE	1	Cutting Board / Tray Drying Rack (24" x 36")	



InterMetro Industries Corporation

North Washington Street, Wilkes-Barre, PA USA 18705
 For Product Information, Call **1-800-992-1776**

Pour de plus amples renseignements sur les produits,
 appeler au 570-825-2741

Para obtener información sobre el producto llame al: 570-825-2741

INSTR-MDRU36 10/11

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Les données et caractéristiques techniques sont susceptibles d'être modifiées sans préavis. Veuillez confirmer au moment de la commande.

Las informaciones y especificaciones están sujetas a cambios sin previo aviso. Por favor, confirme a la vez que realiza el pedido.



SPECIFICATION SHEET

ITEM # 1120

ITEM DESCRIPTION: TRAY SLIDES

MANUFACTURER: INTERMETRO MODEL #DD9514A

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

INSTALLED BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER

ISSUE DATE:

10/28/2019

ITEM # 1120



SPECIFICATION SHEET

ITEM # VARIES

ITEM DESCRIPTION: FLOOR, WALL & CANTILEVER SHELVING

MANUFACTURER: INTERMETRO

ELECTRICAL SPECIFICATIONS:

PLUMBING SPECIFICATIONS:

VOLT: _____
PH: _____
KW: _____
AMP: _____
HP: _____
NEMA RATING: _____

HW: _____
CW: _____
FW: _____
FW2: _____
IW: _____
ROUGH-IN: _____

REMARKS:

REFER TO THE FOLLOING INTERMETRO CATALOG SHEETS FOR SHELVING PARTS & DETAILS

ISSUE DATE:

1/13/2020

ITEM # VARIES



Item # _____

Job _____



Wire Shelving

SUPER ERECTA SHELF® WIRE SHELVING

- **Unique Design:** The open wire design of these shelves minimizes dust accumulation and allows free circulation of air, greater visibility of stored items and greater light penetration.
- **Durable Construction:** Super Erecta shelves and posts are constructed of heavy-gauge carbon steel or Type 304 stainless steel.
- **Choice of Finishes:** Super Erecta Brite™ and chrome-plated for dry storage; Metroseal 3™ with Microban® antimicrobial product protection and stainless steel for corrosive environments; and attractive epoxy color options for merchandising applications.
- **Versatile:** Super Erecta Shelf® wire shelving can adapt to your changing needs. By using various accessories, hundreds of shelving configurations become possible.
- **Fast, Secure Assembly:** SiteSelect™ Posts have a double groove visual guide feature every 8" (203mm), circular grooves at 1" (25mm) increments, and are numbered at 2" (50mm) intervals. A patented, tapered split sleeve snaps together around each post. Tapered openings in the shelf corners slide over the tapered split sleeves providing a positive lock. Shelf is assembled in minutes without the use of any special tools.
- **Adjustability:** Shelves can be adjusted at 1" (25mm) intervals along the entire length of the post.
- **Shelf Ribs:** Run front to back, allowing you to slide items on and off shelves smoothly.
- **Shelf Accessibility:** Shelves can be loaded/unloaded easily from all sides. This open construction allows maximum use of storage cube.
- **Adjustable Feet:** Bolt levelers compensate for surface irregularities.

Note: Stainless stationary posts are equipped with stainless steel leveling feet.



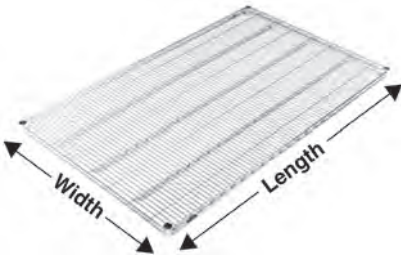
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www.metro.com

10-01

Wire Shelves



Split Sleeve



Aluminum Split Sleeve

- **Metroseal 3:** Metro's proprietary epoxy coating contains Microban® antimicrobial product protection. Microban antimicrobial protects the epoxy coating from bacteria, mold, mildew, and fungus that cause odors, stains, and product degradation.
- See spec sheet 10.14 for epoxy color options.
- Plastic split sleeves are included with each shelf. Replacements are available: Cat. No. 9985 (bag of 4)
- Aluminum split sleeves are recommended for abusive mobile applications. Sleeves with stainless C-rings must be used for cart wash applications (exceeding 200°F/93°C) and for all autoclave applications. Cat. No. 9986Z (bag of 4 with zinc C-rings) Cat. No. 9986S (bag of 4 with stainless steel C-rings)
- Weight capacity (evenly distributed) per shelf
800 lbs. (363kg) for lengths of 18" to 48" (457 to 1219mm)
600 lbs. (272kg) for lengths of 54" (1370mm) or longer
- Weight capacity (evenly distributed) per unit.
Stationary shelving units have a maximum load capacity (evenly distributed) of 2,000 lbs. (907kg)
Mobile units have a maximum capacity of three times the caster load rating up to but not exceeding 1,000 lbs. (453kg) total. Consult the Metro catalog for caster load ratings

Model No. Super Erecta Brite	Model No. Chrome	Model No. Metroseal 3 with Microban®	Model No. Stainless	Nominal Width/Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
1424BR	1424NC	1424NK3	1424NS	14x24 355x610	6 2.7
1430BR	1430NC	1430NK3	1430NS	14x30 355x760	7 3.2
1436BR	1436NC	1436NK3	1436NS	14x36 355x914	8 3.6
1442BR	1442NC	1442NK3	1442NS	14x42 355x1066	9½ 4.3
1448BR	1448NC	1448NK3	1448NS	14x48 355x1219	10½ 4.7
1460BR	1460NC	1460NK3	1460NS	14x60 355x1524	14 6.3
1472BR	1472NC	1472NK3	1472NS	14x72 355x1829	17 7.7
1824BR	1824NC	1824NK3	1824NS	18x24 457x610	7 3.2
1830BR	1830NC	1830NK3	1830NS	18x30 457x760	8 3.6
1836BR	1836NC	1836NK3	1836NS	18x36 457x914	9½ 4.3
1842BR	1842NC	1842NK3	1842NS	18x42 457x1066	11 5.0
1848BR	1848NC	1848NK3	1848NS	18x48 457x1219	12 5.4
1854BR	1854NC	1854NK3	1854NS	18x54 457x1370	14½ 6.6
1860BR	1860NC	1860NK3	1860NS	18x60 457x1524	17 7.7
1872BR	1872NC	1872NK3	1872NS	18x72 457x1829	20 9.1
2124BR	2124NC	2124NK3	2124NS	21x24 530x610	8 3.6
2130BR	2130NC	2130NK3	2130NS	21x30 530x760	9 4.1
2136BR	2136NC	2136NK3	2136NS	21x36 530x914	11 5.0
2142BR	2142NC	2142NK3	2142NS	21x42 530x1066	12 5.4
2148BR	2148NC	2148NK3	2148NS	21x48 530x1219	14 6.4
2154BR	2154NC	2154NK3	2154NS	21x54 530x1370	16 7.3
2160BR	2160NC	2160NK3	2160NS	21x60 530x1524	18 8.2
2172BR	2172NC	2172NK3	2172NS	21x72 530x1829	24 10.9
2424BR	2424NC	2424NK3	2424NS	24x24 610x610	9 4.1
2430BR	2430NC	2430NK3	2430NS	24x30 610x760	11 5.0
2436BR	2436NC	2436NK3	2436NS	24x36 610x914	13 5.9
2442BR	2442NC	2442NK3	2442NS	24x42 610x1066	15 6.8
2448BR	2448NC	2448NK3	2448NS	24x48 610x1219	16 7.3
2454BR	2454NC	2454NK3	2454NS	24x54 610x1370	19 8.6
2460BR	2460NC	2460NK3	2460NS	24x60 610x1524	21 9.5
2472BR	2472NC	2472NK3	2472NS	24x72 610x1829	26 11.8

Note: 14" (355mm) deep units.

Free-standing units: Units taller than 63" (1600mm) must be properly fastened to the floor or wall using Metro foot plates or wall brackets.
Mobile units: maximum allowable post height is 54" (1370mm).

SiteSelect™ Posts

Stationary Posts

Stationary posts are equipped with a leveling bolt to account for uneven floors.

- Height includes leveling bolt (completely tightened) and post cap Leveling bolt can be adjusted 1/2" (13mm).
- Foot plates may be ordered separately and installed in place of leveling foot.
- Replacement leveling bolts
Zinc Cat. No. RPF04-004 Stainless Steel Cat. No. RPF04-004C
- Replacement post cap for standard posts
Black Cat. No. RPC06-035



SiteSelect Posts feature double grooves every 8" (203mm) to aid assembly.

Model No. Chrome	Model No. Metroseal 3 with Microban	Model No. Stainless Steel	Height		Approx. Pkd. Wt.	
			(in.)	(mm)	(lbs.)	(kg)
7P	7PK3		7 ³ / ₈	187	1/2	0.3
13P	13PK3	13PS	14 ³ / ₈	365	1	0.5
27P	27PK3	27PS	28 ³ / ₈	720	1 ³ / ₄	0.75
33P	33PK3	33PS	34 ³ / ₈	873	2	0.9
54P	54PK3	54PS	54 ⁷ / ₁₆	1382	3	1.4
63P	63PK3	63PS	62 ⁷ / ₁₆	1585	3 ¹ / ₂	1.6
74P	74PK3	74PS	74 ¹ / ₂	1892	4	1.8
86P	86PK3	86PS	86 ¹ / ₂	2197	5	2.3
*96P			96 ¹ / ₂	2450	5 ¹ / ₂	2.5

*96P should not be used on units less than 24" (610mm) deep. Consult Metro Engineering for alternate recommendations.



Stationary Post

Mobile Posts (For use with Stem Casters)

- Height includes post cap.

Model No. Chrome	Model No. Metroseal 3 with Microban	Model No. Stainless Steel	Height		Approx. Pkd. Wt.	
			(in.)	(mm)	(lbs.)	(kg)
13UP	13UPK3	13UPS	13 ³ / ₄	349	1	0.5
27UP		27UPS	27 ³ / ₄	704	1 ³ / ₄	0.75
33UP	33UPK3	33UPS	33 ³ / ₄	857	2	0.9
54UP	54UPK3	54UPS	53 ¹³ / ₁₆	1366	3	1.4
63UP	63UPK3	63UPS	61 ¹³ / ₁₆	1570	3 ¹ / ₂	1.6
	70UPK3		69 ³ / ₄	1771	3 ³ / ₄	1.7
74UP	74UPK3	74UPS	73 ⁷ / ₈	1876	4	1.8
86UP	86UPK3	86UPS	85 ⁷ / ₈	2181	4.5	2.0



Post for Stem Caster

Staked Posts (For use with Truck Dollies)

- Each post connects to the truck dolly through the stem receptacle. The stem receptacle is staked into the bottom of the post to ensure a durable connection in abusive mobile applications.
- Each includes a leveling/connecting bolt.

Model No. Chrome	Model No. Stainless Steel	Height		Approx. Pkd. Wt.	
		(in.)	(mm)	(lbs.)	(kg)
54P-STKD	54PS-STKD	54 ⁷ / ₁₆	1382	3	1.4
63P-STKD	63PS-STKD	62 ⁷ / ₁₆	1585	3 ¹ / ₂	1.6
74P-STKD	74PS-STKD	74 ¹ / ₂	1892	4	1.8



Staked Post

Swaged Posts (For use with Stem Casters in Cart Wash Applications)

- Each post has an aluminum cap swaged into the top of the post.

Model No. Stainless Steel	Height		Approx. Pkd. Wt.	
	(in.)	(mm)	(lbs.)	(kg)
33UPS-SW	33 ³ / ₄	857	2	0.9
54UPS-SW	53 ¹³ / ₁₆	1366	3	1.4
63UPS-SW	61 ¹³ / ₁₆	1570	3 ¹ / ₂	1.6



Swaged Post

Special Length Posts

Special length cut posts are available. Consult your Metro representative for more information.



SUPER ERECTA SHELF® WIRE SHELVING

Super Wide Shelving

- **High-density Storage:** Super Wide™ shelves have a greater storage area for holding large quantities of supplies, especially large, bulky objects, providing maximum storage in minimum space.
- **Load Capacity** (evenly distributed) per shelf:
Depths: 30" and 36" (760 and 914mm)
800 lbs. (363kg) for lengths 48" (1219mm) or shorter.
600 lbs. (272kg) for lengths 54" (1370mm) or longer.



Model No. Chrome	Model No. Metroseal 3 with Microban	Model No. Stainless Steel	Nominal Width/Length		Approx. Pkd. Wt.	
			(in.)	(mm)	(lbs.)	(kg)
3036NC	3036NK3	3036NS	30x36	760x914	15	6.8
3048NC	3048NK3	3048NS	30x48	760x1219	21	9.5
3060NC	3060NK3	3060NS	30x60	760x1524	26 ^{1/2}	11.8
3072NC	3072NK3	3072NS	30x72	760x1829	31	14.0
3636NC	3636NK3	3636NS	36x36	910x914	18	8.2
3648NC	3648NK3	3648NS	36x48	910x1219	23	10.4
3660NC	3660NK3	3660NS	36x60	910x1524	29	13.1
3672NC	3672NK3	3672NS	36x72	910x1829	34 ^{1/2}	15.4

Foot Plates

- Use to bolt units to the floor, or when a broader, more stable foot is desired. Foot plates also help to protect floors by distributing the point load of the shelving unit across a larger contact point.
- Foot plates (completely tightened) add 1/8" (3mm) to the specified heights of each stationary post on the table.
Zinc Cat. No. 9993Z
Stainless Steel Cat. No. 9993S



"S" Hook

- Used to add on shelving units with only two posts required. Order two per shelf level.
Cat. No. 9995Z



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Item # _____

Job _____

SUPER ERECTA SHELF® DUNNAGE SHELVES DR Series

- **Superior Strength:** Dunnage shelves offer considerably more weight-bearing capacity than other Super Erecta Shelf® shelves and can be combined with them to provide extra strength at the lower levels of a shelving unit where the heaviest loads will be placed. The 36" (914mm) length has a 1,600-pound (750kg) uniformly distributed static load capacity; the 48" (1219mm) shelves hold up to 1,300 pounds (600kg), and the 60" (1525mm) length holds up to 1,000 pounds (450kg).
- **Stress Resistance:** The high static-load capacity of the Super Erecta Shelf® dunnage shelf translates into an increased ability to stand up under the strain of unbalanced loads and the stress of materials repeatedly being placed on the shelf in a less-than-gentle way.
- **Super Erecta Shelf® Construction:** These dunnage shelves have the same tapered corners and split sleeves that fit the 1" (25mm) posts used for other Super Erecta Shelf® shelving. As a result, they assemble easily, fit securely and are compatible with 60 different Super Erecta Shelf types and sizes.
- **Two-Piece Design:** Removable wire deck fits over reinforced 1" (25mm) square, tubular frame. It lifts off for easy, thorough cleaning.
- **Smooth Loading/Unloading:** The front-to-back upper ribs of the deck allow you to slide items on and off the shelves smoothly.
- **Adjustable:** Rolled grooves on the posts enable dunnage shelves to be positioned or repositioned at desired levels in 1" (25mm) increments.
- **Finishes:** Available in chrome-plated, Metroseal 3™ or stainless steel.



METRO
SUPER ERECTA SHELF®
Dunnage Shelves DR Series



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10.45

Job _____

SUPER ERECTA SHELF® DUNNAGE SHELVES

DR Series



Specifications

- **Shelves:** The shelf support frame is made of 1" (25mm) square tubing. The removable wire deck is formed from 5/16" (7.9mm) diameter wire.
- **Posts:** Posts have an outside diameter of 1" (25mm) with rolled grooves in 1" (25mm) increments along entire height. Available in chrome-plated, Metroseal 3™ or stainless steel.



Dimensions

Shelves

Cat. No. Chrome	Cat. No. Metroseal 3	Cat. No. Stainless	Width		Length		Approx. Pkd. Wt.	
			(in.)	(mm)	(in.)	(mm)	(lbs.)	(kg)
1824DRC	1824DRK3	—	18	455	24	610	14	6.4
1830DRC	1830DRK3	—	18	455	30	760	18	8.2
1836DRC	1836DRK3	1836DRS	18	455	36	910	21	9.5
1848DRC	1848DRK3	1848DRS	18	455	48	1220	28	12.7
1860DRC	1860DRK3	1860DRS	18	455	60	1525	34	15.4
2424DRC	2424DRK3	—	24	610	24	610	16	7.3
2430DRC	2430DRK3	—	24	610	30	760	20	9.1
2436DRC	2436DRK3	2436DRS	24	610	36	910	24	10.9
2448DRC	2448DRK3	2448DRS	24	610	48	1220	30	13.0
2460DRC	2460DRK3	2460DRS	24	610	60	1525	37	16.8

Note: For more information on Metroseal 3, refer to sheet #10.10a.

Posts

Cat. No. Chrome	Cat. No. Metroseal 3	Cat. No. Stainless	Height*		Approx. Pkd. Wt.	
			(in.)	(mm)	(lbs.)	(kg)
63P	63PK3	63PS	62 ⁹ / ₁₆	1589	3 ¹ / ₂	1.6
74P	74PK3	74PS	74 ⁵ / ₈	1895	4	1.8
86P	86PK3	86PS	86 ⁵ / ₈	2200	5	2.3

*Height includes leveling bolt and cap.

Important: Stability decreases as the ratio of height to width increases when heavier loads are placed on upper shelves. Keep units as wide and low as possible, using the dunnage shelf as the bottom shelf. If two dunnage shelves are being used, both should be placed within the lower half of the unit. Dunnage shelves are not recommended for use in shelf carts or trucks.

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Item # _____

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SUPER ERECTA SHELF® SOLID SHELVING (18-Gauge)

- **Strength:** Two-fold thickness of 18-gauge steel forms 1/8" (3.2mm) raised edges on all four sides of the shelving. This ship's edge gives all-around rigidity and high strength.
- **Sanitary:** Flat, solid style with the raised ship's edge on all four sides and at the corners contains spills, minimizes contamination and permits easier clean-up. Louvered/embossed shelf design allows air circulation under packages and containers.
- **Galvanized Shelves** with uncoated cast corners are ideal for applications requiring solid shelving or a work surface and minimum resistance to corrosion. Available in flat solid and louvered/embossed styles.
- **Standard Type 304 Stainless Steel** shelves with epoxy-coated cast corners address the majority of applications for solid, corrosion resistant shelves or work surfaces. Available in flat solid and louvered/embossed styles.
- **Premium Autoclave/Cart Washable Type 304 Stainless Steel** solid shelves feature an all-stainless construction to withstand high temperature, corrosive applications. Available in flat solid style.
- **Versatile Construction:** Super Erecta Shelf® solid shelving can change as quickly as your needs change. By using various accessories hundreds of shelving configurations become possible.
- **Shelf Accessibility:** Shelves can be loaded/unloaded from all sides. This open construction allows use of the maximum storage space of the cube.
- **Adjustability:** Shelves can be adjusted in 1" (25mm) intervals along the entire length of the post.
- **Adjustable Feet:** Leveling bolts compensate for surface irregularities. Note: Stainless steel stationary posts include stainless leveling bolts.



Raised Ship's Edge

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SUPER ERECTA SHELF®
Solid Shelving (18-Gauge)

10-20



**SUPER ERECTA SHELF®
SOLID SHELVING (18-Gauge)**

Galvanized shelves have uncoated, cast aluminum corners. Standard Type 304 Stainless Steel shelves have black epoxy-coated corners. Autoclavable/cart washable Type 304 Stainless Steel shelves have stainless corners.

Nominal Width/Length (in./mm)		Approx. Pkd. Wt. (lbs./kg)		GALVANIZED		STAINLESS STEEL		Autoclavable Cart Washable Stainless Steel
				Flat Galvanized	Louvered/Embossed Galvanized	Flat Stainless	Louvered/Embossed Stainless	Flat Stainless
14x24	355x610	10	4.5	1424FG	1424LG	1424FS	1424LS	1424NFS
14x30	355x760	12	5.4	1430FG	1430LG	1430FS	1430LS	1430NFS
14x36	355x914	14	6.4	1436FG	1436LG	1436FS	1436LS	1436NFS
14x42	355x1066	15	6.8	1442FG	1442LG	1442FS	1442LS	1442NFS
14x48	355x1219	17	7.7	1448FG	1448LG	1448FS	1448LS	1448NFS
14x60	355x1524	22	9.9	1460FG	1460LG	1460FS	1460LS	1460NFS
18x24	457x610	11	5.0	1824FG	1824LG	1824FS	1824LS	1824NFS
18x30	457x760	14	6.4	1830FG	1830LG	1830FS	1830LS	1830NFS
18x36	457x914	16	7.3	1836FG	1836LG	1836FS	1836LS	1836NFS
18x42	457x1066	18	8.2	1842FG	1842LG	1842FS	1842LS	1842NFS
18x48	457x1219	20	9.1	1848FG	1848LG	1848FS	1848LS	1848NFS
18x60	457x1524	24	10.9	1860FG	1860LG	1860FS	1860LS	1860NFS
18x72	457x1829			*	—	*	—	—
21x24	530x610	13	5.9	2124FG	2124LG	2124FS	2124LS	2124NFS
21x30	530x760	15	6.8	2130FG	2130LG	2130FS	2130LS	2130NFS
21x36	530x914	18	8.2	2136FG	2136LG	2136FS	2136LS	2136NFS
21x42	530x1066	21	9.5	2142FG	2142LG	2142FS	2142LS	2142NFS
21x48	530x1219	23	10.4	2148FG	2148LG	2148FS	2148LS	2148NFS
21x60	530x1524	26	11.8	2160FG	2160LG	2160FS	2160LS	2160NFS
24x24	610x610	15	6.8	2424FG	2424LG	2424FS	2424LS	2424NFS
24x30	610x760	17	7.7	2430FG	2430LG	2430FS	2430LS	2430NFS
24x36	610x914	19	8.6	2436FG	2436LG	2436FS	2436LS	2436NFS
24x42	610x1066	21	9.5	2442FG	2442LG	2442FS	2442LS	2442NFS
24x48	610x1219	24	10.9	2448FG	2448LG	2448FS	2448LS	2448NFS
24x60	610x1524	31	14.0	2460FG	2460LG	2460FS	2460LS	2460NFS
24x72	610x1829			*	—	*	—	—

*Contact your Metro representative for availability.



SiteSelect Posts for Super Erecta® Solid Shelving

Stationary posts are fitted with adjustable leveling bolts to compensate for uneven surfaces. Mobile posts will accept stem casters (see Cat. Sheet 11.20). Height for stationary units includes leveling bolt and cap.

STATIONARY				MOBILE				Approx. Pkd. Wt. (lbs./kg)	
Actual Height* (in.)	(mm)	Model No. Plated	Model No. Stainless	Actual Height* (in.)	(mm)	Model No. Plated	Model No. Stainless	(lbs.)	(kg)
7 ³ / ₈	187	7P	7PS	6 ³ / ₄	171	7UP	7UPS	1/2	0.3
14 ³ / ₈	365	13P	13PS	13 ³ / ₄	349	13UP	13UPS	1	0.5
28 ³ / ₈	720	27P	27PS	27 ³ / ₄	704	27UP	27UPS	1 ³ / ₄	0.75
34 ³ / ₈	873	33P	33PS	33 ³ / ₄	857	33UP	33UPS	2	0.9
54 ⁷ / ₁₆	1382	54P	54PS	53 ¹³ / ₁₆	1366	54UP	54UPS	3	1.4
62 ⁷ / ₁₆	1585	63P	63PS	61 ¹³ / ₁₆	1570	63UP	63UPS	3 ¹ / ₂	1.6
—	—	—	—	69 ³ / ₄	1771	70UP	—	3 ³ / ₄	1.7
74 ¹ / ₂	1892	74P	74PS	73 ⁷ / ₈	1876	74UP	74UPS	4	1.8
86 ¹ / ₂	2197	86P	86PS	85 ⁷ / ₈	2181	86UP	86UPS	4 ¹ / ₂	2.0
96 ¹ / ₂	2450	**96P	96PS	—	—	—	—	5 ¹ / ₂	2.5

*Actual height for the stationary post includes the post cap and the leveling bolt completely tightened.

SiteSelect Posts for Autoclavable/ Cart-Washable Applications



Designed for use with stem casters and fitted with swedged aluminum post caps.

9986S

Actual Height (in.)	(mm)	Approx. Pkd. Wt. (lbs.)	(kg)	Model No. Stainless Steel
33 ³ / ₄	857	2	0.9	33UPS-SW
53 ¹³ / ₁₆	1366	3	1.4	54UPS-SW
61 ¹³ / ₁₆	1570	3 ¹ / ₂	1.6	63UPS-SW

Order aluminum split sleeves with stainless "C" rings or corrosive, high-temperature autoclave or cart washing applications.

Model No. **9986S**

One bag required per shelf.

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WIRE SHELVING ACCESSORIES

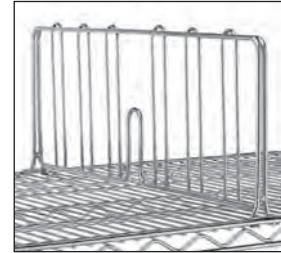
Shelf Dividers for Super Erecta and Super Adjustable Shelves

Keep shelf contents orderly with these 8" (203mm) high, pressure-fit dividers. Unique design allows them to attach to the top or underside of shelves.

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Metroseal 3 with Microban®	Model No. Stainless	Model No. Designer Colors*	Shelf Width (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
DD14C	DD14BL	DD14W	DD14-DSG	DD14K3	DD14S	DD14-D	14 355	1.8 0.8
DD18C	DD18BL	DD18W	DD18-DSG	DD18K3	DD18S	DD18-D	18 457	2.25 1.0
DD21C	DD21BL	DD21W	DD21-DSG	DD21K3	DD21S	DD21-D	21 530	2.5 1.1
DD24C	DD24BL	DD24W	DD24-DSG	DD24K3	DD24S	DD24-D	24 610	2.75 1.3
DD30C	DD30BL	DD30W	DD30-DSG		DD30S		30 760	3.25 1.5
DD36C	DD36BL	DD36W	DD36-DSG		DD36S		36 914	3.75 1.7

Dividers cannot be stacked.

For OTR applications, additional clamping may be required to keep dividers in place. Consult Metro engineering.



Shelf Divider for Super Erecta Shelves

Shelf Ledges — Side and Back

For stationary or mobile installations, ledges prevent items from protruding or falling from shelves.

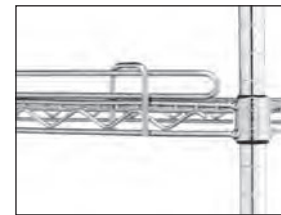
1" (25mm) High Ledges

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Stainless	Model No. Designer Colors*	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
L14N-1C	L14N-1BL	L14N-1W	L14N-1-DSG	L14N-1S	L14N-1-D	14 355	0.58 0.25
L18N-1C	L18N-1BL	L18N-1W	L18N-1-DSG	L18N-1S	L18N-1-D	18 457	0.75 0.33
L21N-1C	L21N-1BL	L21N-1W	L21N-1-DSG	L21N-1S	L21N-1-D	21 530	0.75 0.33
L24N-1C	L24N-1BL	L24N-1W	L24N-1-DSG	L24N-1S	L24N-1-D	24 610	1.0 0.45
L30N-1C	L30N-1BL	L30N-1W	L30N-1-DSG	L30N-1S	L30N-1-D	30 760	2.0 0.9
L36N-1C	L36N-1BL	L36N-1W	L36N-1-DSG	L36N-1S	L36N-1-D	36 914	2.5 1.13
L42N-1C	L42N-1BL	L42N-1W	L42N-1-DSG	L42N-1S	L42N-1-D	42 1066	2.75 1.25
L48N-1C	L48N-1BL	L48N-1W	L48N-1-DSG	L48N-1S	L48N-1-D	48 1219	3.5 1.58
L54N-1C	L54N-1BL	L54N-1W	L54N-1-DSG	L54N-1S	L54N-1-D	54 1370	4.4 1.65
L60N-1C	L60N-1BL	L60N-1W	L60N-1-DSG	L60N-1S	L60N-1-D	60 1524	3.75 1.68
L72N-1C	L72N-1BL	L72N-1W	L72N-1-DSG	L72N-1S	L72N-1-D	72 1828	4.0 1.81

Note: Actual length is approximately 1" (25mm) shorter than nominal shelf length/width.

1" (25mm) ledges are not stackable.

Ledges may also be used on the interior of a shelf (lengthwise) by attaching directly above a snake truss. Interior snake trusses are found on shelf widths of 21" (530mm) and larger.



1" (25mm) Ledge

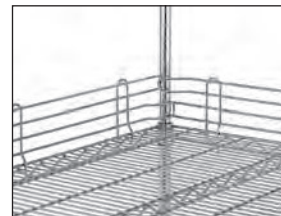
4" (100mm) High Stackable Ledges

Ledges may be stacked to form an 8" (203mm) or higher barrier.

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Metroseal 3 with Microban®	Model No. Stainless	Model No. Designer Colors*	Shelf Width (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
L14N-4C	L14N-4BL	L14N-4W	L14N-4-DSG	L14N-4K3	L14N-4S	L14N-4-D	14 355	0.8 0.3
L18N-4C	L18N-4BL	L18N-4W	L18N-4-DSG	L18N-4K3	L18N-4S	L18N-4-D	18 457	1.5 0.6
L21N-4C	L21N-4BL	L21N-4W	L21N-4-DSG	L21N-4K3	L21N-4S	L21N-4-D	21 530	1.7 0.7
L24N-4C	L24N-4BL	L24N-4W	L24N-4-DSG	L24N-4K3	L24N-4S	L24N-4-D	24 610	2.0 0.9
L30N-4C	L30N-4BL	L30N-4W	L30N-4-DSG	L30N-4K3	L30N-4S	L30N-4-D	30 760	2.2 1.0
L36N-4C	L36N-4BL	L36N-4W	L36N-4-DSG	L36N-4K3	L36N-4S	L36N-4-D	36 914	2.7 1.2
L42N-4C	L42N-4BL	L42N-4W	L42N-4-DSG	L42N-4K3	L42N-4S	L42N-4-D	42 1066	3.2 1.4
L48N-4C	L48N-4BL	L48N-4W	L48N-4-DSG	L48N-4K3	L48N-4S	L48N-4-D	48 1219	3.7 1.6
L54N-4C	L54N-4BL	L54N-4W	L54N-4-DSG	L54N-4K3	L54N-4S	L54N-4-D	54 1370	3.8 1.7
L60N-4C	L60N-4BL	L60N-4W	L60N-4-DSG	L60N-4K3	L60N-4S	L60N-4-D	60 1524	4.0 1.8
L72N-4C	L72N-4BL	L72N-4W	L72N-4-DSG	L72N-4K3	L72N-4S	L72N-4-D	72 1828	5.0 2.2

Note: Actual length is approximately 1" (25mm) shorter than nominal shelf length/width.

Ledges may also be used on the interior of a shelf (lengthwise) by attaching directly above a snake truss. Interior snake trusses are found on shelf widths of 21" (530mm) and larger.



4" (102mm) Ledge

Designer Shelf Colors

*To order a Designer Color, add the appropriate color suffix to the desired catalog numbers above (example: 18"x36" [457x914mm] Hunter Green Shelf = 1836N-DHG).

BM — Black Matte **SH** — Silver Hammertone **HG** — Hunter Green
F — Flame **CH** — Copper Hammertone

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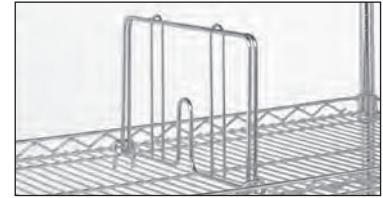


WIRE SHELVING ACCESSORIES

Snap-On Dividers for Drop Mat Shelves

Organize your shelves with these 8" (203mm) high, easy to snap-in-place dividers.

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Designer Colors*	Fits Shelf Width (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
HD18C	HD18B	HD18W	HD18-DSG	HD18-D	18	457	2.5	1.1
HD24C	HD24B	D24W	HD24-DSG	HD24-D	24	614	3.5	1.6



Snap-On Divider

Super Erecta Slide System (for tote boxes)

Using Super Erecta or Super Adjustable Super Erecta wire units, tote boxes, and these innovative slides, you have the flexibility to create a custom configuration that can be positioned quickly on new or existing units without the use of tools.

Model No.	Outside Slide Dimensions Height/Width/Length (in.) (mm)		For Shelf Width (in.) (mm)	Adaptable Boxes	Approx. Pkd. Wt. (lbs.) (kg)	
SS2NC	10 ¹ / ₄ x20 ³ / ₈ x21 ⁵ / ₈	256x510x537	24 610	TB/MTB93030W, TB/MTB93060W, TB/MTB93080W	4 ³ / ₄	2.1
SS3NC	10 ¹ / ₄ x14x17 ¹ / ₈	256x355x430	21 530	TB/MTB92035W, TB/MTB92060W, TB/MTB92080W	3 ¹ / ₂	1.5
SS4NC	10 ¹ / ₄ x25 ¹ / ₈ x17 ¹ / ₈	256x630x430	21 530	TB/MTB93030W,* TB/MTB93060W,* TB/MTB93080W*	4	1.8



Super Erecta Slide System in place on shelf (Tote box sold separately)

*Fits SS4NC with box turned sideways.

Note:

SS2NC may also be used on 30" (760mm) and 36" (910mm) width shelves.
Load ratings: 25 lbs. (11.3kg) max per slide level, not to exceed 50 lbs. (22.6 kg) per slide system.
These slides do NOT work with 12"x20" (305x508mm) steam table pans or 18"x26" (457x660mm) bun pans.

One-Piece Slides

One-piece solid slide attaches easily to shelf with support brackets.

Model No.	For Shelf Width (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
BSD2224NB	24	610	5 ¹ / ₂	2.47



One-Piece Slide

Not adaptable to 24" (610mm) long shelf.
Can use (2) on a 24"x48" (610x1219mm) shelf.
Can use (3) on a 24"x60" (610x1524mm) shelf.

Adjustable Undershelf Slides

These slides can be spaced to fit any width container or tote box.

Model No. (pair)	For Shelf Width (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
US18NA	18	457	1	0.4
US21NA	21	530	1	0.4
US24NA	24	610	1	0.4



Adjustable Undershelf Slide

*Not adaptable to 24" (610mm) long shelf.

Tray Slides

Free up shelves for more efficient use of space. Adaptable slides work with TB93000 and MTB93000 series tote boxes, 12"x20" (305x508mm) steam table pans, or 18"x26" (457x660mm) bun pans. Available in chrome and Metroseal 3 finishes. 22³/₄" H (578mm).

Model No. Chrome	Model No. Metroseal 3 with Microban®	Width (in.) (mm)		Overall Depth (in.) (mm)	Slide Profile (in.) (mm)	On Center Slide Spacing (in.) (mm)	Fits Shelf Width (in.) (mm)	Approx. Weight/Pair (lbs.) (kg)			
15SNC	15SNK3	14 ⁵ / ₈	371	2 ¹ / ₄	56	1 ¹ / ₂	37	1 ¹ / ₂	37	18 457	9 ¹ / ₂ 4.3
20SNC	20SNK3	20	508	2 ¹ / ₄	56	1 ¹ / ₂	37	1 ¹ / ₂	37	24 610	11 5.0



Tray Slides

Load rating: 25 lbs. (11.3kg) max per slide level, not to exceed 50 lbs. (22.6kg) per slide system.
20SNC / K3 will fit 30" (760mm) and 36" (910mm) shelves.

Shelf Lengths	Tray Slides per Level
24" (610mm) through 42" (1066mm)	1
48" (1219mm)	1 or 2
60" (1524mm)	2
72" (1829mm)	2 or 3

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WIRE SHELVING ACCESSORIES



Enclosure Panels

An efficient way to enclose space for stationary or mobile applications.

- Can be used with Super Erecta® and Super Adjustable wire shelving, and Super Erecta solid shelving.
- Appropriate mounting hardware supplied with each panel.



Enclosure Panel

Enclosure Panels for Super Erecta Wire and Solid, Super Adjustable and MetroMax Q Shelving Units

Model No. Chrome	Model No. Stainless	Width/Height		For Nominal Post Height		Grid Opening		Weight	
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lbs.)	(kg)
EP35C	EP35S	12 ³ / ₈ x 50 ³ / ₄	313 x 1289	54	1370	2 ⁷ / ₈ x 3 ⁵ / ₈	73 x 92	3	1.4
EP36C	EP36S	12 ³ / ₈ x 59 ³ / ₄	313 x 1518	63	1600	2 ⁷ / ₈ x 3 ⁵ / ₈	73 x 92	4	1.8
EP37C	—	12 ³ / ₈ x 70 ¹ / ₂	313 x 1791	74	1880	2 ⁷ / ₈ x 3 ⁵ / ₈	73 x 92	6	2.7
EP55C	EP55S	18 ³ / ₈ x 50 ³ / ₄	464 x 1289	54	1370	3 ³ / ₈ x 3 ⁵ / ₈	86 x 92	5	2.3
EP56C	EP56S	18 ³ / ₈ x 59 ³ / ₄	464 x 1518	63	1600	3 ³ / ₈ x 3 ⁵ / ₈	86 x 92	6	2.7
EP57C	—	18 ³ / ₈ x 70 ¹ / ₂	464 x 1791	74	1880	3 ³ / ₈ x 3 ⁵ / ₈	86 x 92	7	3.2

All panels are 7/16" (22mm) thick.

Panels Required for Super Erecta Wire and Solid and Super Adjustable Shelving Units

Ends — Panels required for each end, as follows:

Nominal Post Height (in.)	Nominal Post Height (mm)	18" (457mm) Nominal Shelf Width	21" (530mm) Nominal Shelf Width	24" (610mm) Nominal Shelf Width	30" (760mm) Nominal Shelf Width	36" (914mm) Nominal Shelf Width
54	1370	EP35	EP35	EP55	(2) EP35	(1) EP35, (1) EP55
63	1600	EP36	EP36	EP56	(2) EP36	(1) EP36, (1) EP56
74	1880	EP37	EP37	EP57	(2) EP37	(1) EP37, (1) EP57

Backs — Require multiple panels as follows:

WIRE SHELVES

Nominal Post Height (in.)	Nominal Post Height (mm)	30" (760mm) Nominal Shelf Length	36" (914mm) Nominal Shelf Length	42" (1060mm) Nominal Shelf Length	48" (1219mm) Nominal Shelf Length	54" (1370mm) Nominal Shelf Length	60" (1524mm) Nominal Shelf Length	72" (1825mm) Nominal Shelf Length
54	1370	(2) EP35	(1) EP35, (1) EP55	(2) EP55	(2) EP35, (1) EP55	(1) EP35, (2) EP55	(3) EP55	(1) EP35, (3) EP55
63	1600	(2) EP36	(1) EP36, (1) EP56	(2) EP56	(2) EP36, (1) EP56	(1) EP36, (2) EP56	(3) EP56	(1) EP36, (3) EP56
74	1880	(2) EP37	(1) EP37, (1) EP57	(2) EP57	(2) EP37, (1) EP57	(1) EP37, (2) EP57	(3) EP57	(1) EP37, (3) EP57

SOLID SHELVES

Nominal Post Height (in.)	Nominal Post Height (mm)	30" (760mm) Nominal Shelf Length	36" (914mm) Nominal Shelf Length	42" (1060mm) Nominal Shelf Length	48" (1219mm) Nominal Shelf Length	54" (1370mm) Nominal Shelf Length	60" (1524mm) Nominal Shelf Length	72" (1825mm) Nominal Shelf Length
54	1370	(1) EP55	(2) EP35	(1) EP35, (1) EP55	(2) EP55	—	(1) EP35, (2) EP55	—
63	1600	(1) EP56	(2) EP36	(1) EP36, (1) EP56	(2) EP56	—	(1) EP36, (2) EP56	—
74	1880	(1) EP57	(2) EP37	(2) EP37, (1) EP57	(2) EP57	—	(1) EP37, (2) EP57	—

Note: Units with a solid shelf in the top position require the use of a three-sided snake frame directly below it.

Replacement Mounting Kit for Enclosure Panel

Model No. **9970EPZ**



Mounting Kit for Enclosure Panel

Replacement Clamps

Model No. **9970Z**

Bag of 8 clamp assemblies.

(Available by the bag only)





WIRE SHELVING ACCESSORIES

Rods

Form side and back enclosures for a shelving unit. Can also serve as uniform dividers within unit by passing through shelves from top to bottom. Recommended spacing: every 6" (150mm) to 12" (305mm), depending upon shelf contents.

Model No. Chrome	Model No. Stainless	Min. Post Height (in.)	Rod Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
R52C	R52S	54	52	1320	1	0.5
R61C	R61S	63	61	1549	1	0.5
R72C	R72S	74	72	1830	1 ¹ / ₄	0.6
R84C	R84S	86	84	2135	1 ¹ / ₂	0.7



**Rod with
Tab in place**

Tabs

Rods are shipped with 4 tabs per rod.
Additional Tabs — Bag of 12 Model No. **9084Z**

Three-Sided Double Snake Frames

Provide additional support or access to floor with these sturdy square snake frames. Chrome finish.

Model No. Chrome	Width/Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
SF31N3C	18x24	457x610	5	2.3
SF32N3C	18x30	457x760	6	2.7
SF33N3C	18x36	457x914	6 ¹ / ₂	2.7
SF34N3C	18x42	457x1066	7	3.2
SF35N3C	18x48	457x1219	7 ³ / ₄	3.5
SF36N3C	18x60	457x1524	8	3.6
SF37N3C	18x72	457x1829	9	4.1
SF41N3C	21x24	530x610	5	2.3
SF42N3C	21x30	530x760	6	2.7
SF43N3C	21x36	530x914	6 ¹ / ₂	2.7
SF44N3C	21x42	530x1066	7	3.2
SF45N3C	21x48	530x1219	8	3.6
SF46N3C	21x60	530x1524	8 ¹ / ₂	3.8
SF47N3C	21x72	530x1829	10	4.5
SF51N3C	24x24	610x610	6	2.7
SF52N3C	24x30	610x760	7	3.2
SF53N3C	24x36	610x914	7 ¹ / ₂	3.4
SF54N3C	24x42	610x1066	8	3.6
SF55N3C	24x48	610x1219	9	4.1
SF56N3C	24x60	610x1524	10	4.5
SF57N3C	24x72	610x1829	11	5.0



Three-sided Double Snake Frame

All Metro Catalog Sheets are available on our Web Site: www.metro.com



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Item # _____

Job _____

WIRE SHELVING ACCESSORIES

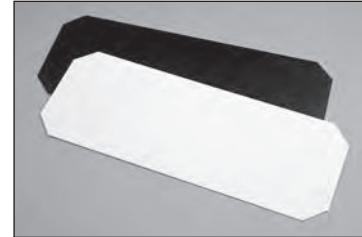
Decorator Shelf Inlays

Hardboard mats prevent small items from falling through wire shelves. Fit between posts and level with top of shelf edge. Single packed.

Material — 1/8" (3.2mm) thick cardboard with textured vinyl laminate on each side.

Cleaning instructions — May be wiped with damp cloth. Cannot be immersed in liquid.

Model No.	Width/Length		Description
	(in.)	(mm)	
1436BWI	14x36	355x914	Reversible, Black and White
1448BWI	14x48	355x1219	Reversible, Black and White
1824BWI	18x24	457x610	Reversible, Black and White
1836BWI	18x36	457x914	Reversible, Black and White
1848BWI	18x48	457x1219	Reversible, Black and White
2424BWI	24x24	610x610	Reversible, Black and White
2436BWI	24x36	610x914	Reversible, Black and White
2448BWI	24x48	610x1219	Reversible, Black and White



Decorator Shelf Inlays

Note: Inlays interfere with the attachment of ledges and dividers. The user may modify the inlay to accommodate these accessories.

Clear Shelf Inlays

Nearly invisible solid plastic mat retains the open-wire look of shelves and allows light penetration. Sold in packages of 4.

Material — 0.02" (0.5mm) thick PETG

Model No.	Width/Length	
	(in.)	(mm)
1436CI-4	14x36	355x914
1448CI-4	14x48	355x1219
1460CI-4	14x60	355x1524
1836CI-4	18x36	457x914
1848CI-4	18x48	457x1219
1860CI-4	18x60	457x1524
2136CI-4	21x36	530x914
2148CI-4	21x48	530x1219
2160CI-4	21x60	530x1524
2436CI-4	24x36	610x914
2448CI-4	24x48	610x1219
2460CI-4	24x60	610x1524



Clear Shelf Inlays

Triangle Shelves

Put unused corner space to work while keeping traffic aisles clear.

- Shelf sizes correspond to width (depth) of Super Erecta Shelving for add-on capability.
- Shelves attach to standard Super Erecta or qwikSLOT posts.
- Weight capacity — 100 lb. (45.4kg)

Model No. Chrome	Model No. Black	Size Width		Approx. Pkd. Wt.	
		(in.)	(mm)	(lbs.)	(kg)
H18TRC	H18TRB	18	457	15 1/2	7
H24TRC	H24TRB	24	610	21 1/2	10

Not intended for mobile applications.
Maximum allowable usage height for free-standing unit is 54" (1370mm).



Triangle Shelf





WIRE SHELVING ACCESSORIES

Aluminum Split Sleeves

Improved design is easier to install. For high temperature, over the road, or conductive applications. Zinc or stainless steel retainer rings available to secure shelf. One bag required per shelf; 4 pairs per bag.

Model No.	Description
9986Z	Aluminum Split Sleeves with Zinc Rings
9986S	Aluminum Split Sleeves with Stainless Rings

Note: Cannot be used with Super Adjustable shelves.



High Temperature Usage

Aluminum split sleeves — high temperature usage (Stationary Unit)

- A chrome plated Super Erecta wire shelving unit can be used to a maximum of 250°F (121°C).
- A stainless steel Super Erecta wire shelving unit can be used to 500°F (260°C).

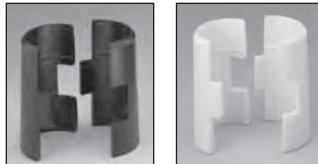
For mobile units, please factor the usage requirements of the caster.

Replacement Plastic Split Sleeves for Super Erecta Shelves

One bag required per shelf; 4 pairs per bag.

Black. Model No. **9985**

White. Model No. **9985W**



Note: White post caps and white split sleeves are standard with white designer shelving only.

Replacement Super Adjustable Super Erecta Corner Releases, Wedges, and Sleeves

Replacement parts for Super Adjustable and original Super Erecta. One bag required per shelf. Each kit includes (4) corner releases, (4) wedges, and (4) sleeves.

Model No. **SAKITA2**



Metro Post Boots™

Ideal for use with Brite, Chrome, or Metroseal 3 stationary Super Erecta and Super Adjustable units to protect against the corrosion in areas where floors are cleaned regularly using every day cleaning agents. Bag of 4. Model No. **9982GR-4** Length: 5" (127mm)

Material and Description

- Dark gray soft PVC with built-in Microban® antimicrobial product protection.
- Designed to fit Super Erecta stationary posts.
- Pre-drilled hole in base is designed to securely fit the threaded leveling bolt or foot plate bolt.
- Allows the lowest shelf to be positioned at least 6" (152mm) from the floor per NSF guidelines.
- Not designed to work with stem caster mobile posts.



Security Shelf Connector Kit

Kit includes (2) "S" hooks, (2) screws, and (2) bolts. Used for added security to "add-on" shelving units.

One connector kit required for each connection.

Chrome.

Model No. **H9995C**

Black.

Model No. **H9995B**



Proper Usage Environments

- General food preparation/storage areas: Kitchens, Walk-In Coolers, Dry Storage, Grocery Back-of-House.
- Controlled environments where Metroseal 3 shelving is appropriate.
- Hospitals: Areas that are mopped frequently; Areas that may be near a loading dock and exposed to harsh conditions.
- Not intended for environments that are cleaned with harsh detergents (i.e. phosphoric acid, sodium hydroxide based). and/or exposed to strong decontaminating/sterilizing solutions, (i.e. phenol based).

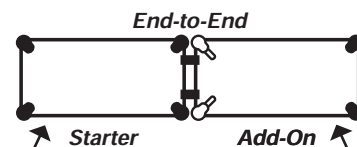
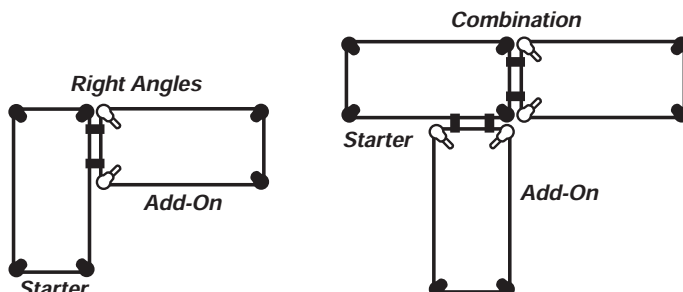
"S" Hooks

Use to eliminate two posts per adjacent unit. Sold individually.

Two are required per shelf. Model No. **9995Z**

Notes:

- May only be used in stationary applications.
- Must use a minimum of (2) posts per adjacent add-on unit.
- Weight capacities of adjacent shelving units connected by "S" hooks — standard weight capacities of shelves and stationary units apply. For the most common configurations involving 54" (1370mm) or taller posts and 4-tiers of shelving, weight capacities are as follows: starter unit with (4) posts = 2,000 lbs. (907kg) evenly distributed; add-on unit with (2) posts and (2) "S" hooks per level = 2,000 lbs. (907kg) evenly distributed.
- The distance between two adjacent shelving units — collar to collar — connected by "S" hooks is 1/8" (1.6mm).



Weight Capacities

- **Starter Unit** with (4) posts can hold up to 2,000 lb. (907kg) evenly distributed.

- **Add-On Unit** with (2) posts and (2) "S" hooks per shelf level can hold up to 2,000 lb. (907kg) evenly distributed.

Post Clamps

Joins units together for maximum strength.

Zinc-plated. Model No. **9994Z**

Black. Model No. **9994BL**

Notes:

A post clamp adds $\frac{5}{32}$ " (4mm) between the base of the collars on adjacent units.
 The distance between the snake frames on the adjacent units is $\frac{7}{32}$ " (6mm).
 Enclosure panels CANNOT be attached on the ends where post clamps join adjacent units.



Hole Plugs (for Shelves)

This chrome-plated cover is used to fill shelf-corner openings.

Use whenever posts have been eliminated by "S" hooks.

Model No. **9997C**



Foot Plates

Use to bolt units to the floor, or when a broader, more stable foot is desired. Replaces standard post leveling bolt.

Zinc. Model No. **9993Z**

Stainless Steel. Model No. **9993S**

Black. Model No. **9993BL**

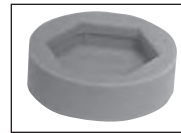


Glides

Smooth polymer cover fits over leveling bolt to protect floors.

Material — HDPE

Model No. **9991P**



Decorative Leveling Foot

Decorative alternative for post. Compensates for uneven surfaces.

Chrome. Model No. **HDFC**

Black. Model No. **HDFB**



Decorative Casters

- Black nylon housing with non-marking polymer tread.
- 2 1/2" (63mm) models have threaded stem and attach to standard stationary shelving posts. Weight capacity of unit with (4) HDC3BB casters is 300 lb. (136kg).
- 4" (100mm) casters have a non-threaded stem and attach to standard mobile (-UP) posts. Weight capacity of a unit is 675 lb. (306kg).

Model No.	Type	Diameter	
		(in.)	(mm)
HDC3BB	Swivel/Brake	2 1/2	63
HDC5B	Swivel	4	100
HDC5BB	Swivel/Brake	4	100



HDC5B

HDC5BB



WIRE SHELVING ACCESSORIES

Keyboard Tray

Attaches to all Metro wire shelves, 36" (914mm) length or longer. Mouse Tray adapts to left or right of Keyboard Tray. Flip-top compartment provides convenient storage. Constructed of durable high-impact polystyrene. Assembles easily.

- Hardware included for attachment to Metro wire shelves; template provided for attachment to solid desk surfaces.
- Keyboard Tray Dimensions: 22" L. (559mm) x 15 1/2" W. (394mm).
- Dimension with Mouse Tray fully extended: 29 1/2" L. (749mm) x 15 1/2" W. (394mm).

Model No. **CKS1522BL**



Keyboard Tray

Wire Management Device

Keeps wires and cables neatly organized both horizontally and vertically. Easily snaps over the edge of any Super Erecta wire or qwikSLOT shelf. Black epoxy finish.



Wire Management Device

Power Strip

- Mounts quickly and easily to either a Super Erecta or qwikSLOT post.
- Includes a 15 foot (4572mm) long cord.
- Mounting brackets and hardware included.
- UL/CSA approved.
- 15 Amp Circuit Breaker.
- Illuminated Power Switch. 15A/125VAC.60Hz/1875 W.
- Gray/blue finish.
- 1/4 3 SJT Molded Power Supply Cord.

Model No.	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
CPS48	1 1/2 38	48 1219	6 2.72



Power Strip



**L50CDTB
CD Rom Rack**

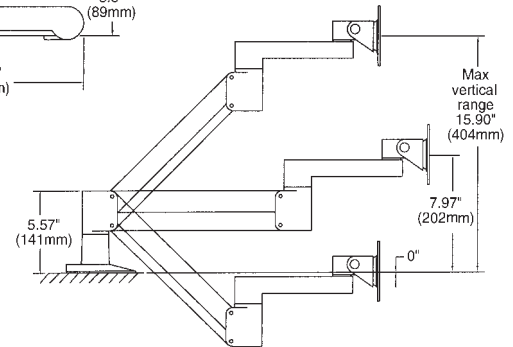
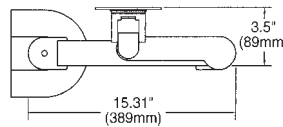
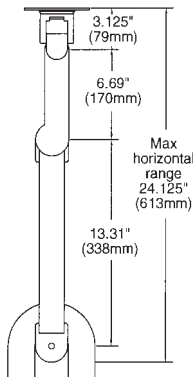
CD/DVD Rack

Attaches to any Super Erecta or qwikSLOT unit. Black epoxy finish.

Model No.	Length (in.) (mm)	CD Rack Capacity	Approx. Pkd. Wt. (lbs.) (kg)
L30CDTB	30 760	40 single/4 double	5 1/2 2.5
L50CDTB	50 1270	66 single/4 double	9 4

Surface Mount Swing Arm for Flat Monitor

Model No. **LTFMA**



All Metro Catalog Sheets are available on our Web Site: www.metro.com



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Item # _____

Job _____

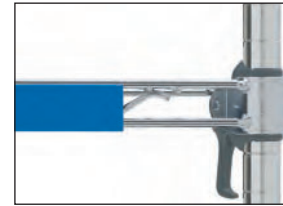


WIRE SHELVING ACCESSORIES

Color Shelf Marker

Color code for effective organization. Snaps securely to the front edge of Super Erecta and Super Adjustable Super Erecta Wire Shelving.

Model No.	Shelf Marker Size		Color
	(in.)	(mm)	
CSM6-B	6x1 ¹ / ₄	152x32	Blue
CSM6-G	6x1 ¹ / ₄	152x32	Green
CSM6-R	6x1 ¹ / ₄	152x32	Red
CSM6-T	6x1 ¹ / ₄	152x32	Tan
CSM6-W	6x1 ¹ / ₄	152x32	White
CSM6-Y	6x1 ¹ / ₄	152x32	Yellow
CSM6-GR	6x1 ¹ / ₄	152x32	Gray

**Color Shelf Markers**

Label Holders

It's easy to identify shelf contents with these snap-on plastic holders, available in four styles and a variety of sizes. Labels not included.

1¹/₄" (32mm) Label Holders

Gray. Holds most commercial labels. Available in a variety of lengths.

Model No.	Label Size		Fits Shelf Length	
	(in.)	(mm)	(in.)	(mm)
9990P	3x1 ¹ / ₄	75x32	All	
9990P1	13x1 ¹ / ₄	330x32	18	457
9990P2	19x1 ¹ / ₄	480x32	24	610
9990P30	25x1 ¹ / ₄	635x32	30	760
9990P3	31x1 ¹ / ₄	725x32	36	914
9990P4	43x1 ¹ / ₄	1090x32	48	1219
9990P5	55x1 ¹ / ₄	1395x32	60	1520

**1¹/₄" (32mm) Label Holder**

Clear Label Holders

Clear plastic allows decorator colors to show through. Holds most commercial 1¹/₄" (32mm) labels.

Model No.	Label Size		Fits Shelf Length	
	(in.)	(mm)	(in.)	(mm)
9990CL	3x1 ¹ / ₄	75x32	All	
9990CL1	13x1 ¹ / ₄	330x32	18	457
9990CL2	19x1 ¹ / ₄	480x32	24	610
9990CL30	25x1 ¹ / ₄	635x32	30	760
9990CL3	31x1 ¹ / ₄	725x32	36	914
9990CL4	43x1 ¹ / ₄	1090x32	48	1219
9990CL5	55x1 ¹ / ₄	1395x32	60	1520

**Clear Label Holder**

Slanted Label Holders

Gray solid plastic holder puts 1¹/₄" (32mm) labels on slant for easier viewing.

Model No.	Label Size		Fits Shelf Length	
	(in.)	(mm)	(in.)	(mm)
9990SL	3x1 ¹ / ₄	75x32	All	
9990SL1	13x1 ¹ / ₄	330x32	18	457
9990SL2	19x1 ¹ / ₄	480x32	24	610
9990SL30	25x1 ¹ / ₄	635x32	30	760
9990SL3	31x1 ¹ / ₄	725x32	36	914
9990SL4	43x1 ¹ / ₄	1090x32	48	1219
9990SL5	55x1 ¹ / ₄	1395x32	60	1520

**Slanted Label Holder**

Material specifications

- Color Shelf Markers, 1¹/₄" High Gray Label Holders, Slanted Label Holders — Rigid PVC; suitable for continuous use in a temperature range of -20° to 165°F (-28° to 73°C)
- Clear Label Holders — CAB plastic; suitable for continuous use in a temperature range of 20° to 120°F (-28° to 49°C)
- Label holders are not cart washable or autoclavable.

Notes for Shelf Markers and Label Holders:

- If ledges are desired on the front of the shelf where the label holder is most often attached, the label holder or color shelf marker must be mounted between the vertical support wires of the ledge.
- Label holders work with standard wire shelving styles — Super Erecta, Super Adjustable, qwikSLOT, Drop Mat wire shelving, cantilever shelves.
- Designed for use with 1" (25mm) high labels.



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WIRE SHELVING ACCESSORIES

Grids and Brackets

Grids

Attach easily to shelf frames or to the wall to provide a structure for mounting baskets, hooks, hangers, and other storage, workspace management, or display accessories. Accessories can be found in this spec sheet (10.05) and in spec sheet 10.41.

- Grid openings: 2³/₄"x2³/₄" (70x70mm)
- Weight capacity: 250 lb. (112.5kg)

Model No. Plated	Model No. Metroseal 3 with Microban®	Size		Approx. Pkd. Wt.	
		(in.)	(mm)	(lbs.)	(kg)
WG1836BR	WG1836K3	18x36	457x914	9	4.1
WG1848BR	WG1848K3	18x48	457x1219	12	5.4
WG1860BR	WG1860K3	18x60	457x1524	14	6.4
*	WG2436K3	24x36	610x914	12	5.4
*	WG2448K3	24x48	610x1219	15.5	7
*	WG3036K3	30x36	762x914	12.8	5.8
*	WG3048K3	30x48	762x1219	16.5	7.5
PBA-GPC	—	33x54	840x1370	21	9.5

Note: Consult your Metro representative for availability of stainless steel or decorative epoxy grids.



Accessories are ordered separately.



Grid Clamp (for Shelf)

Allows the grid to attach to a wire or solid shelf frame. Brite zinc finish. Minimum of four are needed to secure a grid to a shelf. Bag of 8 clamp assemblies. (Available by the bag only). Model No. **9970Z**



Grid Clamp



SWGB2



WGBRKT

Stainless Steel Direct Wall Mount Brackets

Stainless grid brackets allow the grid to attach to the wall and be removed for easy cleaning. Kit includes 6 brackets. Approximate packaged weight is 2 lb. (0.9kg). Model No. **SWGB2**

Plastic Direct Wall Mount Bracket

Black plastic clamps attach grid to the wall. Kit includes 6 brackets. Approximate packaged weight is 2 lb. (0.9kg). Model No. **WGBRKT**

Hanger Rails

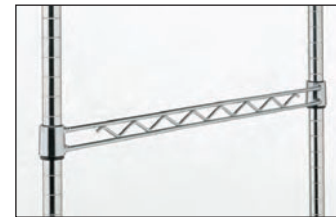
Convenient rail fits on posts along the width or length of the unit. Suitable for use with hanging storage baskets, hooks, and extension display hangers.

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Designer Colors*	Length†		Approx. Pkd. Wt.	
					(in.)	(mm)	(lbs.)	(kg)
H114C	H114B	H114W	H114-DSG	H114-D	14	355	1	.45
H118C	H118B	H118W	H118-DSG	H118-D	18	457	1 ¹ / ₄	.57
H124C	H124B	H124W	H124-DSG	H124-D	24	610	1 ¹ / ₂	.68
H130C	H130B	H130W	H130-DSG	H130-D	30	760	1 ¹ / ₂	.68
H136C	H136B	H136W	H136-DSG	H136-D	36	914	2	.90
H148C	H148B	H148W	H148-DSG	H148-D	48	1219	2 ¹ / ₂	1.13

†14", 18" and 24" (355, 457 and 610mm) sizes fit shelf width (depth).

30", 36" and 48" (760, 914 and 1219mm) sizes fit shelf length.

Weight capacity — 25 lb. (11.3kg) evenly distributed.



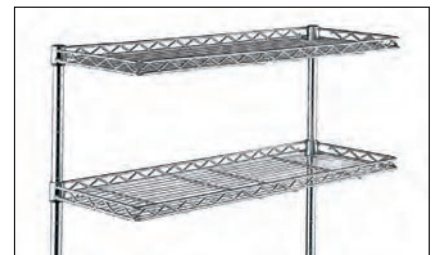
Hanger Rail

Cantilever Shelves

Adds convenient space above a storage unit. Drop mat design creates a retaining ledge around the entire 12" (305mm) deep shelf. Remember to order rear posts taller than front posts to accommodate these shelves.

Model No. Chrome	Model No. Black	Model No. White	Model No. Smoked Glass	Length		Approx. Pkd. Wt. Each	
				(in.)	(mm)	(lbs.)	(kg)
1224CSNC	1224CSNBL	1224CSNW	1224CSN-DSG	24	610	4 ¹ / ₂	2.0
1230CSNC	1230CSNBL	1230CSNW	1230CSN-DSG	30	750	5	2.3
1236CSNC	1236CSNBL	1236CSNW	1236CSN-DSG	36	914	5 ³ / ₄	2.6
1242CSNC	1242CSNBL	1242CSNW	1242CSN-DSG	42	1066	6 ³ / ₄	3.1
1248CSNC	1248CSNBL	1248CSNW	1248CSN-DSG	48	1219	7 ³ / ₄	3.5
1260CSNC	1260CSNBL	1260CSNW	1260CSN-DSG	60	1524	9 ¹ / ₂	4.3

Weight capacity — 150 lb. (67.5kg) evenly distributed.



Cantilever Shelves

Designer Shelf Colors

*To order a Designer Color, add the appropriate color suffix to the desired catalog numbers above (example: 18"x36" [457x914mm] Hunter Green Shelf = 1836N-DHG).

- BM** — Black Matte **SH** — Silver Hammertone **HG** — Hunter Green
F — Flame **CH** — Copper Hammertone

WIRE SHELVING ACCESSORIES

Color ID Tubes

Provide color coded organization to shelf contents. Tubes slip onto posts. Material — rigid PVC.

Model No.	Length (in.) (mm)		Diameter Inside (in.) (mm)		Outside (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)		Color
CIT8Y	8	200	1 ¹ / ₁₆	27	1 ³ / ₁₆	30	5 ⁵ / ₈	2.5	Yellow
CIT8F	8	200	1 ¹ / ₁₆	27	1 ³ / ₁₆	30	5 ⁵ / ₈	2.5	Flame
CIT8BL	8	200	1 ¹ / ₁₆	27	1 ³ / ₁₆	30	5 ⁵ / ₈	2.5	Black
CIT8G	8	200	1 ¹ / ₁₆	27	1 ³ / ₁₆	30	5 ⁵ / ₈	2.5	Gray
CIT8W	8	200	1 ¹ / ₁₆	27	1 ³ / ₁₆	30	5 ⁵ / ₈	2.5	White



Color ID Tubes

Storage Baskets

Generous-sized baskets attach in seconds to a hanger rail, wire shelf, enclosure panel, or grid. Weight capacity — 20 lb. (9kg).

Model No.	Model No. Metroseal 3 Chrome with Microban®	Model No. Black	Model No. White	Model No. Smoked Glass	Model No. Designer Colors*	Width/Length/Depth (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
H209C	H209K3	H209B	H209W	H209-DSG	H209-D	13 ³ / ₈ x5x7	345x127x180	8 ¹ / ₂	4
H210C	H210K3	H210B	H210W	H210-DSG	H210-D	17 ³ / ₈ x7 ¹ / ₂ x5	440x190x127	7	3
H212C	H212K3	H212B	H212W	H212-DSG	H212-D	17 ³ / ₈ x7 ¹ / ₂ x10	440x190x255	11	5



Large Display/Storage Basket

File Basket

The convenient place to keep files and papers.

- Measures 2⁵/₈" W. x 12³/₄" L. x 8³/₄" H. (67mm W. x 324mm L. x 222mm H.).
- Large enough to hold standard-size file folders.
- Chrome plated.
- Weight capacity — 20 lb. (9kg).

Model No.	Width/Length (in.) (mm)		Height (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)		
PH1239C	2 ⁵ / ₈ x	12 ³ / ₄	63x	330	8 ³ / ₄	228	2.1 1.0

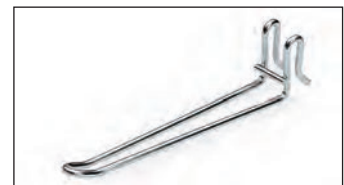


File Basket

Extension Display Hanger

Snaps on Super Erecta Shelf hanger rails, shelves, enclosure panels, and grids. Accepts standard carded merchandise.

Model No.	Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)		Finish/Color
HHK6C	6	152	.25	.1	Chrome
HHK6B	6	152	.25	.1	Black
HHK8C	8	203	.25	.1	Chrome
HHK8B	8	203	.25	.1	Black



Extension Display Hanger

*White, smoked glass and designer colors also available. Allow 4-6 week lead time.



WIRE SHELVING ACCESSORIES

Swing Hanger

Attaches to post to provide convenient storage for hanging items. Red epoxy finish.

Model No.	Arm Length (in.) (mm)	Weight Capacity (lbs.) (kg)
H110R	6 ¹ / ₄ 160	20 9



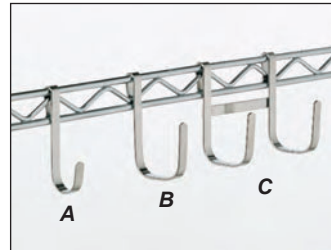
Swing Hanger

Snap-On Hooks

Multi-purpose hooks in three styles attach to hanger rails, mounting rails, shelves, enclosure panels, or grids for instant access.

Model No. Chrome	Model No. Black	Description	Height (in.) (mm)
HK23C	HK23B	Style A — Small	3 ⁷ / ₁₆ 90
HK25C	HK25B	Style B — Large	3 ⁷ / ₁₆ 90
HK26C		Style C — Double	3 ⁷ / ₁₆ 90

Weight capacities: Single Hook — 5 lb. (2.3kg)
Double Hook — 10 lb. (4.6kg)



Snap-On Hooks

Garment Hanger Tube with Brackets

Hanger tubes attach easily under Super Erecta shelves for hanging garments. Available in 18", 21" and 24" (457, 530 and 610mm) widths and in same length as shelves.

Shelf Width 18" (457mm)	Shelf Width 21" (530mm)	Shelf Width* 24" (610mm)	Tube Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
AT2418NC	AT2421NC	AT2424NC	24 610	2 ¹ / ₂ 1.1
AT3018NC	AT3021NC	AT3024NC	30 760	2 ¹ / ₂ 1.1
AT3618NC	AT3621NC	AT3624NC	36 914	3 1.4
AT4218NC	AT4221NC	AT4224NC	42 1066	3 ¹ / ₂ 1.6
AT4818NC	AT4821NC	AT4824NC	48 1219	3 ¹ / ₂ 1.6
AT6018NC	AT6021NC	AT6024NC	60 1524	4 1.8
AT7218NC	AT7221NC	AT7224NC	72 1828	4 ¹ / ₂ 2.0

Weight capacity — 75 lb. (34kg) evenly distributed.
*Also works with 30" (760mm) and 36" (914) width shelves.



Garment Hanger Tube with Brackets

All Metro Catalog Sheets are available on our Web Site: www.metro.com



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Item # _____

Job _____



Super Erecta Shelf® SOLID SHELVING ACCESSORIES

- **4" Shelf Ledges** for Solid Shelves: To prevent items from protruding or falling off shelves, ledges can be installed on the shelf edges. Spring-clip tabs (supplied with ledge) are used to attach ledges to solid shelves.

Dimensions

Length (in.)	Length (mm)	Cat. No.	
		Chrome	Stainless
14	355	L14WC	L14WS
18	455	L18WC	L18WS
21	530	L21WC	L21WS
24	610	L24WC	L24WS
30	760	L30WC	L30WS
36	910	L36WC	L36WS
42	1065	L42WC	L42WS
48	1220	L48WC	L48WS
60	1525	L60WC	L60WS



- **Rods & Tabs** for Solid Shelving: Can be used in place of ledges to enclose sides and back of entire unit. Rods hook over outer edge of top shelf and attach to each shelf with spring-clip tab. Required: one tab per shelf per rod.

• Rods**Dimensions**

Post Number (minimum)	Rod Length		Cat. No. Chrome
	(in.)	(mm)	
54	52	1320	R52FC
63	60	1525	R60FC
74	72	1830	R72FC
86	84	2135	R84FC

• Tabs

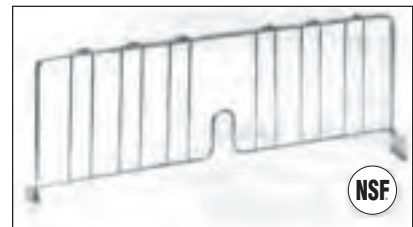
Tabs for 4-shelf unit supplied with rods. For additional tabs, order: **Solid Shelf Tab — Cat. No. 9184Z**



- **8" Shelf Dividers:** Shelf dividers enable you to compartmentalize shelves, help keep shelf contents orderly. They attach to solid shelf with spring clip at each end of the divider. All models 8" high.

Dimensions

Shelf Width (in.)	(mm)	Cat. No.	
		Chrome	Stainless
14	355	DD14FC	
18	455	DD18FC	DD18FS
21	530	DD21FC	
24	610	DD24FC	DD24FS



DD24FS

- **Adjustable Undershelf Slides:** An undershelf drawer can be created by combining a tote box with these slides. Two slides are required and can be spaced to fit any width container, including TB22 or BSD1350.

Item	Cat. No.
One Slide for 18" wide shelf	US18FA
One Slide for 21" wide shelf	US21FA
One Slide for 24" wide shelf	US24FA



LOAD RATING: 25 lbs. (11.3 kg.)



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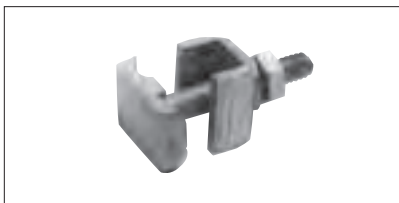


Super Erecta Shelf® SOLID SHELVING ACCESSORIES

- **Solid Shelf Joining Clamp:**

Used to "add on" solid shelving units with only two posts required. Units can be joined end-to-end, back-to-back or at right angles. Two clamps required for each shelf. Clamp adds 1/4" (6mm) clearance between shelves.

Cat. No. 9998Z



- **Hole Plug:** Used to fill corner openings where posts have been eliminated by joining clamp.

Cat. No. 9997C



- **Post Clamp:** For maximum strength in adjacent shelving units, the post clamp is recommended. With it each unit is supported by four posts and buttressed by the adjacent unit.

Cat. No. 9994Z



- **Foot Plate:** Replaces the leveling bolt. Used when units are to be bolted to the floor or, without bolts, when a broader foot is desired.

Zinc

Cat. No. 9993Z

Stainless Steel

Cat. No. 9993S



- **Glides:** Fit over leveling bolt to protect tile floors.

Cat. No. 9991P



Manufactured by:



InterMetro Industries Corporation

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Item # _____

Job _____



SmartWall G3™ System

SMARTWALL G3™ SYSTEM

Organized, efficient wall space at work.

A unique storage and work station system for often underutilized space — empty walls. SmartWall G3 and its system of integrated wall tracks offer the flexibility to add wall shelving and wall mounted task stations where needed throughout a facility. The use of the system around and above sinks, work tables, and equipment will keep these areas cleaner and more organized. SmartWall G3 can become an integral part of everyday operating processes to improve efficiencies and ultimately the return on investment (ROI).



Task Station (medium duty) with accessories for a sink/prep area.



Task Station (standard duty) with accessories for a food prep area.



Adjustable Wall Shelving

- **Flexible, Robust Design:** Wall tracks and uprights are designed to interface with wood studs, plywood, concrete, and other suitable wall structures.
- **Configuration**
Task Stations: unique combinations of wall tracks, shelves, grids, and accessories.
Adjustable Wall Shelving: standard Metro Super Erecta wire and solid, MetroMax Q, and MetroMax i™ shelves can be used with the SmartWall G3 shelf supports.
- **Easy to Adjust:** Uprights and grid brackets can be easily repositioned along the track.
Heavy Gauge Uprights: 1 1/2" (38mm) vertical adjustment of shelves and grids.
Grids: 3" (76mm) vertical and horizontal adjustment of accessories.
- **Easy to Install:** Simply attach the wall tracks to a proper mounting structure. The wall tracks provide a level mounting surface for uprights and grid brackets. Hang the uprights or grid brackets from the track. Configure the task station or wall shelving. Finally, secure the uprights or bottom grid brackets to the wall.
- **Easy to Clean:** Shelves, shelf supports, and grids can easily be removed for thorough cleaning of walls. Wall tracks and uprights can easily be wiped clean.
- **Durable Finishes:** Super Erecta Brite for dry environments; Metroseal 3 epoxy for wet or damp environments with built-in Microban® antimicrobial product protection to inhibit the growth of bacteria, mold, mildew, and fungus that cause odors and product degradation.

*MICROBAN® and the MICROBAN® symbol are registered trademarks of the Microban Products Company, Huntersville, NC.



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10.42

Specifications

- **Wall Tracks:** 12 gauge cold rolled steel; obround mounting holes located at 8" (204mm) increments; first and last holes are located 4" (102mm) from the ends of the track; obround hole dimensions (1/8" x 3/4" [3 x 19mm]). Wall tracks include stop fasteners for the ends of the tracks and joiner plates for connecting adjacent tracks.
- **Uprights:** 12 gauge cold rolled steel; slotted every 1 1/2" (38mm); 1 1/8" (29mm) diameter mounting holes are spaced every 6" (152mm) along the upright.
- **Shelf Supports:** Cold rolled steel; sleeve is high density polyethylene (HDPE).
- **Shelves:** Standard Super Erecta wire and solid, MetroMax Q, or MetroMax i™ shelves may be used. See catalog sheets 10.01, 10.20, 9.20, and 9.21 for shelving specifications.
- **Finishes:** Standard finishes for components are Super Erecta Brite for dry environments and Metroseal 3 epoxy for wet or damp environments. Metroseal 3 contains built-in Microban® antimicrobial product protection to protect the product from bacteria, mold, mildew, and fungus that cause odors and product degradation.
- **Wire Grids:** 1/4" (6mm) diameter cold rolled steel wire.
- **Grid Bracket Kits:** 14 gauge, Type 304 stainless steel.
- **Grid Accessories:** See catalog sheet 10.43.
- **Cleaning Instructions:** Clean with mild detergents and damp cloths. Do not use abrasive materials because these may damage the protective coatings.

Configurations

SmartWall G3 offers limitless configurations. The following are examples and meant to demonstrate how to configure the basic product. Accessories can be added to these base units.



Task Station (medium duty)

Components [qty]

- [1] Wall Track
- [2] Uprights
- [4] Single Shelf Supports
- [2] Super Erecta Shelves
- [1] Grid (same length as shelf)



Adjustable Wall Shelving

Components [qty]

- [2] Wall Tracks
- [3] Uprights
- [4] Single Shelf Supports
- [2] Double (Intermediate) Shelf Supports
- [4] Super Erecta Shelves



Task Station (standard duty)

Components [qty]

- [1] Wall Track
- [1] Grid Bracket Kit (Model No. SWGB1)
- [1] Grid
- [1] Grid Shelf with Retaining Edge (same length as grid)



Task Station (standard duty)

Components [qty]

- [1] Grid Bracket Kit (Model No. SWGB2)
- [1] Grid

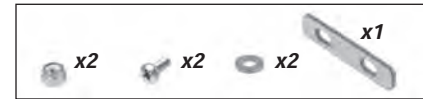
Components

Wall Tracks (minimum one per system)

- Joiner plates and stop fastener hardware included. Does not include hardware to mount wall tracks to the wall.
- Packed one track per carton.
- Replacement joiner plate (1) and stop fastener hardware (2 sets): Model No. RPTRK-HDWE



Wall Track



Hardware

Model No. Super Erecta Brite	Model No. Metroseal 3	Actual Length (in.) (mm)	Actual Depth (in.) (mm)	Actual Width (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
SW40BR	SW40K3	40 1016	3/4 19	1 9/16 40	5.0 2.2
SW56BR	SW56K3	56 1423	3/4 19	1 9/16 40	6.0 2.6
SW72BR	SW72K3	72 1829	3/4 19	1 9/16 40	7.0 3.1

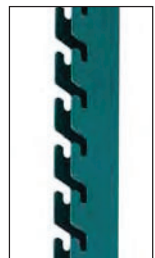
NOTE: Tracks can be cut to length, but Metro does not provide this service. Touch up paint for Metroseal 3 tracks is available. Model No. TP-K2.

Medium-duty configurations consist of wall tracks, uprights, shelf supports, and grids.

Uprights (for medium-duty applications, minimum two per system)

- Built-in slots allow shelf supports and grids to attach without tools or hardware.
- 1 1/2" (38mm) slot spacing allows shelves and grids to be adjusted on 1 1/2" (38mm) increments.
- Sold by the piece; packed two per carton.

Model No. Super Erecta Brite	Model No. Metroseal 3	Number of slots	Actual Length (in.) (mm)	Actual Width (in.) (mm)	Actual Depth (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
SWU15BR	SWU15K3	7	16 406	1 1/8 29	1 7/8 48	1.8 0.8
SWU30BR	SWU30K3	17	31 787	1 1/8 29	1 7/8 48	3.5 1.5
SWU45BR	SWU45K3	26	44 1/2 1130	1 1/8 29	1 7/8 48	5.3 2.3



Uprights

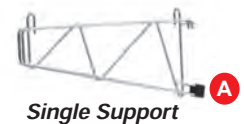
Shelf Supports

- Mount directly to slotted uprights.
- Single shelf supports are used on each end of a stand-alone unit or side-by-side unit (pictured). Sold by the piece.
- Double (intermediate) shelf supports are used when configuring side-by-side wall shelving units. Sold by the piece.



Single Shelf Supports

Model No. Super Erecta Brite	Model No. Metroseal 3	Fits Shelf Depth	Actual Length (in.) (mm)	Actual Width (in.) (mm)	Actual Height (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
SWS14BR	SWS14K3	14" (355mm)	16 9/16 421	1 1/2 38	8 3/16 208	2.5 1.1
SWS18BR	SWS18K3	18" (457mm)	20 9/16 522	1 1/2 38	8 3/16 208	3.0 1.3
SWS21BR	SWS21K3	21" (530mm)	23 9/16 598	1 1/2 38	8 3/16 208	3.5 1.5
SWS24BR	SWS24K3	24" (610mm)	26 9/16 675	1 1/2 38	8 3/16 208	3.5 1.5



Single Support



Double (Intermediate) Support

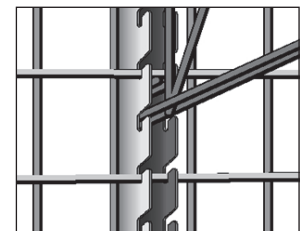
Double (Intermediate) Shelf Supports

SWD14BR	SWD14K3	14" (355mm)	16 9/16 421	1 1/2 38	8 3/16 208	2.5 1.1
SWD18BR	SWD18K3	18" (457mm)	20 9/16 522	1 1/2 38	8 3/16 208	3.0 1.3
SWD21BR	SWD21K3	21" (530mm)	23 9/16 598	1 1/2 38	8 3/16 208	3.5 1.5
SWD24BR	SWD24K3	24" (610mm)	26 9/16 675	1 1/2 38	8 3/16 208	3.5 1.5

NOTE: Replacement plastic sleeve for shelf support; Model No. RP-SPSLV.

Product Notes:

- SmartWall G3 tracks, uprights, and shelf supports are not compatible with earlier generations of original SmartWall or SmartWall Plus.
- When configuring task stations with uprights, choose shelves and grids of the same length. Longer grids may be used but must not overhang the upright by more than 6" (152mm) on either side.
- Grids can be mounted directly behind shelves, but shelf supports and grids cannot occupy the same slots on the upright. Once the grid has been mounted to the upright, the shelf support can be mounted to its own slots and can be adjusted on 3" (76mm) increments within the grid space.
- Calculating the maximum usable wall track mounting space
Stop fasteners are installed at each end of a run of wall tracks and occupy approximately 1" (25mm) of track space per end. Uprights and track-mounted grid brackets must be installed a minimum of 1" (25mm) inboard on the wall track. The maximum usable length of track to install uprights or track-mounted grid brackets is calculated as follows:
Subtract 2" (51mm) from the total length of tracks connected end to end.
Example: Three 72" (1829mm) wall tracks are installed end to end. The maximum usable length of wall track is: (72" x 3) - 2" = 214" [(1829mm x 3) - 51mm = 5436mm]



Reference: Note "C".



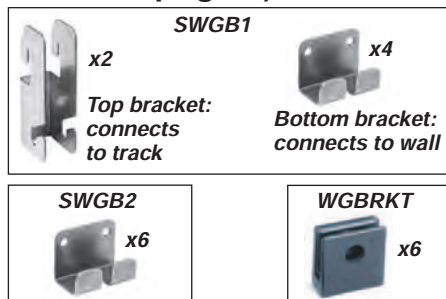
SMARTWALL G3™ SYSTEM

Standard-duty configurations consist of wall tracks (optional), grid brackets, and grids.

Grid Mounting Brackets (for standard-duty applications without uprights)

- For standard-duty applications, grids may be mounted directly to the track or directly to the wall without a track. One kit required per grid.

Model No.	Description	Approx. Pkd. Wt.	
		(lbs.)	(kg)
SWGB1	Bracket kit to connect grid to wall track; includes (2) top and (4) bottom (stainless steel)	2.0	0.9
SWGB2	Direct wall mount bracket kit; consists of (6) bottom brackets (stainless steel)	2.0	0.9
WGBRKT	Direct wall mount bracket kit; consists of (6) black plastic brackets	2.0	0.9



Grids

- Grids are a mounting surface for task management accessories.
- See spec sheet 10.43 for grid accessories.

Model No. Plated	Model No. Metroseal 3	Width x Length		Approx. Pkd. Wt.	
		(in.)	(mm)	(lbs.)	(kg)
—	WG1830K3	18x30	457x760	7.5	3.3
WG1836BR	WG1836K3	18x36	457x914	9.0	4.1
WG1848BR	WG1848K3	18x48	457x1219	12.0	5.4
WG1860BR	WG1860K3	18x60	457x1524	14.0	6.4
—	WG2436K3	24x36	610x914	12.0	5.4
—	WG2448K3	24x48	610x1219	15.5	7.0
—	WG3036K3	30x36	760x914	12.8	5.8
—	WG3048K3	30x48	760x1219	16.5	7.5
PBA-GPC	—	33x54	838x1370	21.0	9.5

NOTE:

- Grids can mount directly to the uprights without brackets.
- Mount a grid directly to the track with bracket kit model SWGB1.
- Mount a grid directly to the wall without a track with bracket kit model SWGB2.



Stand-alone unit



Adjacent units with a shared upright



Grid and grid shelf

Weight capacities are based on a stand-alone unit with a wall track, two uprights, and any combination of shelves and grids.	
Structures into which wall tracks are mounted	Per Unit
Wood Studs	400 lbs. (180kg)
Woods Studs with cross-stud reinforcement	400 lbs. (180kg)
Plywood: Minimum thickness — 1/2" (13mm)	400 lbs. (180kg)
Concrete	200 lbs. (90kg)
Metal Studs	100 lbs. (45kg)
Environmental room and walk-in cooler walls (appropriately reinforced)	consult your Metro representative
Weight capacity per shelf (Super Erecta, MetroMax Q, MetroMax i)	250 lbs. (113kg) not to exceed the overall stated weight capacity of the unit based on the wall structure

Weight capacities for adjacent units that share an upright.	
General Rule	Unit: 1/2 the stated weight capacity of a stand-alone unit based on the wall structure. Shelf: 125 lbs. (56kg) not to exceed the overall weight capacity of the unit based on the wall structure.

Weight capacities for grids and grid shelves	
Grid	250 lbs. (113kg)
Grid shelf with retaining edge	50 lbs. (22.5kg)

All Metro Catalog Sheets are available on our Web Site: www.metro.com



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Item # _____

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SMARTWALL G3™ ACCESSORIES



Customizable Task Stations: Accessories mount to grids and can be configured to meet the exact application. Use accessories to create unique task stations to organize sink and prep areas.

Above Sinks: Use shelves, drying racks, baskets, and hooks to promote safe air drying of containers, utensils, trays, lids, and other items that are used in food preparation.

Above Prep Tables: Use baskets, grid shelves, bins, and hooks to keep the work area free from clutter and to keep utensils and containers clean until they are needed.

Large Grid Shelves with built-in front ledge

- 2" (51mm) high front retaining edge helps to contain bulky items.
- 50 lbs. (22kg) weight capacity.

Model No. Metroseal 3	Nominal Size (in.) (mm)		Actual Height (in.) (mm)	Actual Width (in.) (mm)		Actual Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
GS1436K3	14x36	355x914	7 ³ / ₄ 197	15 ³ / ₈	391	35 ¹ / ₄	895	12	5.4
GS1448K3	14x48	355x1219	7 ³ / ₄ 197	15 ³ / ₈	391	47 ¹ / ₄	1200	16	7.3
GS1830K3	18x30	457x760	7 ³ / ₄ 197	19 ³ / ₈	492	29 ¹ / ₄	743	15	6.8
GS1836K3	18x36	457x914	7 ³ / ₄ 197	19 ³ / ₈	492	35 ¹ / ₄	895	18	8.2
GS1848K3	18x48	457x1219	7 ³ / ₄ 197	19 ³ / ₈	492	47 ¹ / ₄	1200	24	10.0

Small Grid Shelves

- Use to manage small supplies or tools.
Above sinks: boxes of gloves, scrubbing/scouring pads.
Above work tables: ingredients, boxes of gloves, small containers.

Model No. Plated	Model No. Metroseal 3	Description	Height (in.) (mm)		Width (in.) (mm)		Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
PBA-GSD	PBA-GSDK3	Light-Duty Shelf with Side Ledges			9	228	18 ¹ / ₂	470	4	1.8
PBA-MS	PBA-MSK3	Square Shelf with 1" (25mm) Ledge			16 ³ / ₄	425	16 ³ / ₄	425	6	2.7
	FGS1224K3	12"x24" (305x610mm) Shelf	4	102	12 ¹¹ / ₁₆	322	24	610	7	2.6

Baskets

- Contain small loose utensils, cutting boards, and miscellaneous containers.

Model No. Chrome	Model No. Metroseal 3	Baskets	Actual Height (in.) (mm)		Actual Width (in.) (mm)		Actual Length (in.) (mm)		Approx. Pkd. Wt. (lbs.) (kg)	
H209C	H209K3	Small Basket	7	180	13 ³ / ₈	345	5	127	8.5	4
H210C	H210K3	5" (127mm) Deep	5	127	17 ³ / ₈	440	7 ¹ / ₂	190	7	3
H212C	H212K3	10" (254mm) Deep	10	255	17 ³ / ₈	440	7 ¹ / ₂	190	11	5

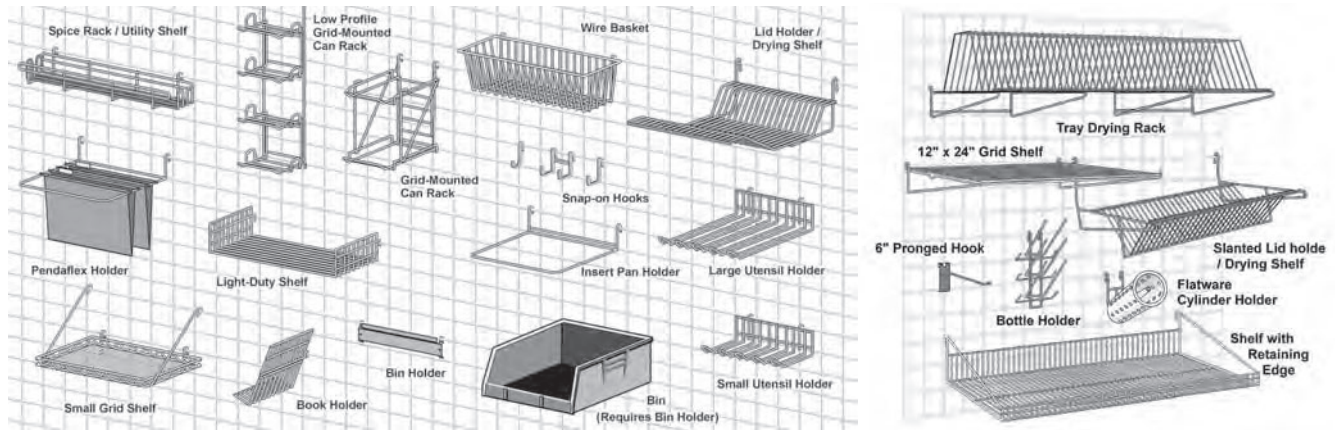


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SMARTWALL G3™ ACCESSORIES



Hooks: Suitable for holding utensils and lightweight cooking or straining vessels.

- J-hooks are available in small, large, and double-large styles; chrome-plated; attach to grids and wire shelf frames
- 6" (152mm) long prong hook; 10 lbs. (4.5kg) capacity; attaches to grid.

Model No. Chrome	Model No. Metroseal 3	Description	Height (in.) (mm)	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
HK23C	—	Small Hook	3 1/2 89	1 1/4 32		0.5 0.2
HK25C	—	Large Hook	3 1/2 89	2 50		0.5 0.2
HK26C	—	Double Large Hook	3 1/2 89	2 50		0.5 0.2
—	PGHK6K3	6" Pronged Hook	5 5/8 92	1 1/4 32	7 5/8 194	0.3 0.1

Drying Rack Accessories Promote Safe and Sanitary Air Drying

- **Tray Drying Racks:** For trays, sheet pans, and large lids; 50 lbs. (22kg) capacity.
- **Lid Holder/Drying Shelves:** For small and medium sized containers and lids.
- **Bottle Holder (6-prong):** For up to 6 squeeze bottles and lids.

Model No. Metroseal 3	Bins and Holders	Height (in.) (mm)	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
TDR48K3	Tray Drying Rack (grid-mounted)	10 3/16 259	14 9/16 371	46 1/4 1175	12.0 5.4
IWA-S11K3	Slanted Lid Holder/Drying Shelf	12 1/8 307	14 1/8 359	20 3/4 527	5.0 2.3
IWA-11K3	Lid Holder/Drying Shelf	4 1/2 114	8 1/4 210	13 1/2 343	2.0 0.9
BH6K3	6-Prong Bottle Rack	11 279	14 7/8 378	5 1/8 130	2.3 0.8

Utensil Holders for Sanitary Air Drying or Prep Area Applications

- **IWA models:** Organize multiple utensils; Metroseal 3 finish.
- **Utensil Cylinders:** Perforated polymer; allow small utensils to air dry and are ideal above work tables to hold small utensils until they are needed. Order one holder (Model No. FCH) per polymer cylinder (Model No. FC1).

Model No.	Bins and Holders	Height (in.) (mm)	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
IWA-12K3	Large Utensil Holder	4 102	10 1/2 267	10 3/8 264	4 1.8
IWA-14K3	Small Utensil Holder	4 102	4 3/8 111	10 3/8 264	4 1.8
FC1	Utensil Cylinder (Polymer)	5 1/2 140	4 5/16 109	4 5/16 109	0.3 0.1
FCH	Mounting Bracket — Cylinder	5 3/4 146	2 5/8 67	5 7/8 149	1.0 0.5

Bins and Holders

Use bins above a work table to contain small supplies, utensils, or ingredients and to keep them off of the work surface. Holders easily mount to grids.

Model No.	Bins and Holders	Height (in.) (mm)	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
MB30230B	Blue Bin Packed 12/ctn	5 127	5 1/2 140	10 7/8 279	1 0.5
MB30235B	Blue Bin Packed 6/ctn	5 127	11 280	10 7/8 279	1.5 0.7
MB30240B	Blue Bin Packed 12/ctn	7 180	8 1/4 210	14 3/4 375	2 0.9
DD3722A	Single Bin Holder	1 1/2 13	—	3 76	0.5 0.2
PBA-1BH	Small Bin Holder	1 25	11 3/4 298	11 280	1 0.5
PBA-2BH	Large Bin Holder	1 25	22 1/4 565	22 559	2 0.9

Small Utility Racks and Holders

Model No. Plated	Model No. Metroseal 3	Description	Height (in.) (mm)	Width (in.) (mm)	Length (in.) (mm)	Approx. Pkd. Wt. (lbs.) (kg)
SR24BR	SR24K3	Spice Rack/Utility Rack	4 102	5 1/4 133	22 1/2 571	3.5 1.6
CR4BR	—	Grid Mounted Can Rack (holds 4)	12 305	8 1/4 210	13 3/4 349	4.0 1.8
CR4LPBR	—	Low Profile Can Rack (holds 4)	28 1/2 724	6 1/2 165	7 3/4 197	4.3 2.0
STP3BR	—	Insert Pan Holder	4 102	7 1/2 190	12 1/2 317	2.3 1.0
PBA-PFH	—	Hanging File Folder	—	6 1/4 159	12 1/2 317	3.0 1.4
PBA-CHD	—	Book Holder	9 228	2 50	—	3.0 1.4

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METROMAX i™ POLYMER SHELVING with *Microban Antimicrobial Product Protection

Part of the innovative MetroMax iQ™ Storage System, MetroMax i™ is a lifetime storage solution. The product is corrosion proof, easy to clean, strong like wire shelving, and provides a very efficient use of storage space. MetroMax i™ is integrated with online space planning tools and tutorials. www.metro.com/iQ

- **Lifelong performance and corrosion proof:** All-polymer and Type 304 stainless design offers a lifetime warranty against rust and corrosion.
- **Strong and Durable:** Strong as steel, MetroMax i™ shelves hold as much weight as Metro's wire shelving and are impact resistant. Weight capacity for evenly distributed loads:
800 lbs. (363kg) per shelf for lengths of 24" to 48" (610 to 1220mm)
600 lbs. (275kg) per shelf for lengths of 54" (1370mm) or longer
2,000 lbs. (907kg) maximum per stationary unit.
- **Easiest to clean and maintain:** Smooth surfaces easily wipe clean. Polymer mats can be easily removed and cleaned in a sink or dish machine. Microban antimicrobial product protection is built into the high contact areas of the shelf including the mats, frames, and posts to protect the product from bacteria, mold, mildew, and fungus that cause odors and product degradation. Microban protection keeps the product "cleaner between cleanings".
- **Smooth, Protective Surfaces:** Smooth, flat surfaces protect packaged shelf contents from unwanted rips, tears, or damage.
- **Robust Open Grid and Solid Mat Options:** Open grid shelves promote air circulation and light penetration. One-piece solid mats contain spills and are ideal to protect items on the bottom shelf from dirt or backsplashes from cleaning floors. Shelf mats are sturdy and safely support concentrated loads from instrumentation and equipment.
- **Interchangeable:** Part of the MetroMax iQ™ Storage System, corrosion proof MetroMax i™ shelves and posts are compatible with corrosion resistant MetroMax Q™ shelves and posts.
- **Efficient, Organized Storage:** Premium MetroMax iQ™ accessories efficiently organize, contain, and compartmentalize **all** space between shelves.
- **Fast, Easy Assembly:** MetroMax i™ assembles easily in minutes, without tools. Shelves can be adjusted at 1" (25mm) increments along the post. Shelf wedges have a window to locate your desired position.



MetroMax i™ Mobile Unit



MetroMax i™ with Accessories

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InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com



MetroMax i™ Polymer Shelving

9.20



METROMAX i™ POLYMER SHELVING

Specifications

- **Longitudinal Beams and Posts:** Pultrusions — continuous glass fibers and thermoset resin composite with built-in Microban® antimicrobial product protection.
- **End Beams, Adjustable Foot and Socket:** Injection molded polyester thermoplastic resin with glass reinforcement
- **Shelf Wedge Connector:** reinforced nylon
- **Mats, Open and Solid:** Mineral reinforced polypropylene. Mats contain Microban® antimicrobial.
- **Post Cap and Center Beam Cap:** High-density polyethylene.
- **“S” Hook Tab Hole Plug:** Vinyl.
- **Collar and “S” Hook:** Type 304 Stainless Steel.
- **Bonding of Longitudinal Beams to End Beams:** High temperature polyamide adhesive and stainless steel screws.
- **Continuous Temperature —** MetroMax i™ can be used continuously within a range of -20/120° F (-29/49° C) with intermittent exposure to 212° F (100° C) for cleaning.

Standard Shelves

- Part number includes shelf with removable mats and one bag of wedges

Nominal Width (in.) (mm)		Nominal Length (in.) (mm)		Shelf with Grid Mat Model No.	Approx. Pkd. Wt. (lbs.) (kg)		Shelf with Solid Mat Model No.	Approx. Pkd. Wt. (lbs.) (kg)	
18	457	24	610	MX1824G	8.7	4.0	MX1824F	12.7	5.8
18	457	30	760	MX1830G	10.5	4.7	MX1830F	14.5	6.6
18	457	36	914	MX1836G	12.2	5.5	MX1836F	17.2	7.8
18	457	42	1060	MX1842G	13.9	5.3	MX1842F	20.1	9.1
18	457	48	1220	MX1848G	15.7	7.1	MX1848F	23.1	10.5
18	457	54	1372	MX1854G	17.5	7.9	MX1854F	21.5	9.7
18	457	60	1524	MX1860G	19.2	8.7	MX1860F	23.2	10.5
18	457	72	1829	MX1872G	22.5	10.2	MX1872F	27.5	12.5
24	610	24	610	MX2424G	12.2	5.5	MX2424F	14.2	6.4
24	610	30	760	MX2430G	13.9	6.3	MX2430F	15.9	7.2
24	610	36	914	MX2436G	15.6	7.1	MX2436F	19.6	8.9
24	610	42	1060	MX2442G	17.5	7.9	MX2442F	21.5	9.8
24	610	48	1220	MX2448G	19.3	8.7	MX2448F	25.3	11.5
24	610	54	1372	MX2454G	21.0	9.5	MX2454F	25.0	11.3
24	610	60	1524	MX2460G	22.8	10.5	MX2460F	26.8	12.1
24	610	72	1829	MX2472G	26.0	11.8	MX2472F	31.0	14.1

Actual Dimensions:

Width: Add 1/8" (6mm) to nominal size.
Length: Subtract 9/32" (7mm) from nominal size.

Heavy-Duty Dunnage Shelves

- Open grid and solid mat options.
- Compatible for use on MetroMax i™ and MetroMax Q shelving units.
- Weight capacity per shelf evenly distributed: 1,200 lbs. (544kg) on shelves up to and including 48" (1220mm) long; 900 lbs. (408kg) for shelves 60" (1524mm) long.
- Dunnage shelves are recommended for use on units with four posts, not as part of an add-on unit with two posts.

Nominal Width (in.) (mm)		Nominal Length (in.) (mm)		Shelf with Grid Mat Model No.	Approx. Pkd. Wt. (lbs.) (kg)		Shelf with Solid Mat Model No.	Approx. Pkd. Wt. (lbs.) (kg)	
18	457	36	914	MHP1836G	18	8.2	MHP1836F	22	10.0
18	457	48	1220	MHP1848G	22	10.0	MHP1848F	26	11.8
18	457	60	1524	MHP1860G	26	11.8	MHP1860F	30	13.6
24	610	36	914	MHP2436G	21	9.5	MHP2436F	25	11.3
24	610	48	1220	MHP2448G	27	12.2	MHP2448F	31	14.1
24	610	60	1524	MHP2460G	33	15.0	MHP2460F	37	16.8



MetroMax i Open Grid Shelf



MetroMax i™ Solid Shelf



Heavy-Duty Dunnage Shelf

METROMAX i™ POLYMER SHELVING



Polymer Posts

- Corrosion proof with built-in Microban antimicrobial product protection.
- Compatible for use with MetroMax i™ and MetroMax Q shelves.
- Stationary posts include an adjustable leveling foot to compensate for uneven floors. Leveling foot can be adjusted 1" (25mm).
- When mounting a shelving unit to a dolly base, stationary posts are used.
- Special height cut posts are available. Consult your Metro representative.

Nominal Height (in.)	Nominal Height (mm)	Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)	Stationary Post with Leveling Foot Model No.	Actual Height* (in.)	Actual Height* (mm)	Post for Stem Caster Model No.	Actual Height (in.)	Actual Height (mm)
9	228	0.3	0.15				MX9UP	9 ¹ / ₄	235
13	370	0.5	0.2	MX13P	14 ³ / ₄	375	MX13UP	13 ³ / ₄	349
27	685	0.9	0.4	MX27P	26 ³ / ₄	730	MX27UP	27 ³ / ₄	705
33	875	1.0	0.5	MX33P	34 ³ / ₄	883	MX33UP	33 ³ / ₄	857
54	1370	1.6	0.7	MX54P	54 ³ / ₄	1391	MX54UP	53 ³ / ₄	1365
63	1585	1.8	0.8	MX63P	62 ³ / ₄	1594	MX63UP	61 ³ / ₄	1568
74	1690	2.2	1.0	MX74P	74 ³ / ₄	1899	MX74UP	73 ³ / ₄	1873
86	2195	2.5	1.1	MX86P	86 ³ / ₄	2203	MX86UP	85 ³ / ₄	2178



Polymer Stationary Post



Replacement Shelf Wedges MX9985

Replacement Leveling Foot: Model No. RPM3-FOOT
 Replacement Post Cap: Model No. RPMX3-POSTCAP
 Replacement MetroMax i™ Wedges: Model No. MX9985 Bag of 4

NOTE: Compatibility with existing Metro polymer mat shelving systems

- MetroMax i™ is interchangeable with MetroMax Q shelves (manufactured within or after April 2009) and MetroMax Q posts.
- MetroMax i™ shelves, posts, and wedges are NOT compatible with original MetroMax shelves, posts, and wedges manufactured before April 2009.

Post Clamp

Adds stability by joining posts of two separate units together. With it, each unit is supported by four posts and buttressed by the adjacent unit.

Model No. 9994X



Foot Plate

Use to add stability to the shelving unit or to bolt units to the floor.

Model No. Zinc 9993Z

Model No. Stainless Steel 9993S



Stem Casters

A variety of stem casters are offered for MetroMax i™ mobile applications. Stem caster models include bumpers. See Catalog Sheet 11.20 for stem casters.

Load Rating: 3 x Stem Caster Load Rating, maximum — 900 lbs. (363kg) per stem caster cart.



Replacement Bumper M9992DBX





METROMAX i™ POLYMER SHELVING

Starter and Add-On Units

- 4- and 5-tier models available. Consult the Metro catalog for models.
- Starter units: consist of shelves and (4) posts
- Add-on units: consist of shelves, (2) posts, and "S" Hooks (M9995)

"S" Hook: Used to "add on" one or multiple MetroMax i™ storage systems while eliminating the cost of two posts per unit. Can be used to join units end-to-end, back-to-back, at right angles, etc. Two "S" hooks are required for each shelf.

Model No. M9995



MetroMax i™ Intermediate

"S" Hook Kit: Includes one intermediate bracket (pictured) and two "S" hooks. Snaps onto front or back of MetroMax i™ shelf when joining units at right angles. Order one kit per shelf.

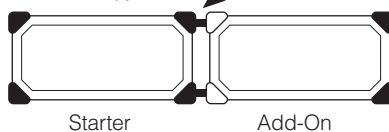
Model No. MX9996



- Regular "S" Hook location
- ✕ Intermediate bracket location
- Post
- Post not required

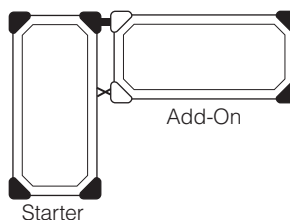
END-TO-END

"S" Hooks
M9995 — qty. 2



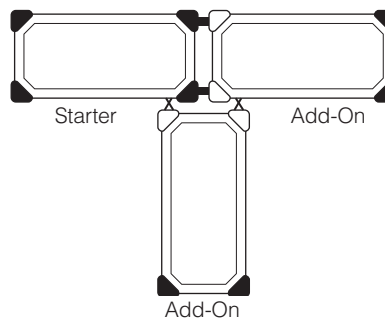
RIGHT ANGLES

Intermediate "S" Hook Kit
MX9996 — qty. 1



COMBINATION

Intermediate "S" Hook Kits
MX9996 — qty. 2



MetroMax i™ Carts

- 4- and 5-tier models
- All-grid and all-solid shelf models
- Units consist of shelves, (4) posts, (2) swivel, and (2) swivel brake casters.
- Consult the Metro catalog for models.



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Smart**Lever**[™]

Multifunctional
Storage & Workstations

Nothing
gets in
the way of
productivity.



The intelligent way to optimize space and workflow.

In any service business, speed and accuracy are key in customer satisfaction. The easier it is to be able to perform tasks free of obstructions is directly related to profitable and productive employees. SmartLever Multifunctional Storage & Workstations provide the options, configurations and durability to improve any workflow process.



SmartLever shown as used for overhead storage accommodating other needed equipment.



Make the most above dunnage storage by adding a worksurface.



A usable space with all items within reach can be created for any job or task.



5-Tier SmartLever shown with Super Erecta Pro Shelves and Dunnage base.

Open Design.

The smart design provides visibility to the items you need most by eliminating the need for front upright supports. SmartLever™ can be configured as a freestanding unit or as add-ons to give you ultimate flexibility for any layout or process improvement project.

Easy Access.

The ability to access the items you need is critical to overall efficiency. Whether you are functioning in a quick-serve setting or the back-of-house, SmartLever never stands in your way of providing faster, more accurate service to your customers.

Endless Possibilities.



A size, a style, a solution for any application:

Heights: 36", 76" and 86".

Units use standard shelf widths of: 18", 21" and 30"

Units use standard shelf lengths of: 36", 42", 48", 60" and 72"

Create continuous storage with add-on capabilities.

(Share upright post structure between add-on units.)

Modular.

Utilizes Metro shelving including but not limited to: Super Erecta, Super Erecta Pro, SmartWall Grid and accessories, and Flat Stainless Shelves.





Work smarter, not harder.

Make the most out of every square inch. Interchangeable accessories provide the customization necessary for virtually any application.



Create the ultimate usable space by combining shelving, stainless work surface and SmartWall productivity system.



Strong & Robust.

Our sturdy stainless steel support arms carry a load of up to 600 lbs. per shelf and 1000 lbs. per dunnage rack, for a unit total load bearing capacity of 2800 lbs. per unit.



Adjustable.

Make the most out of every square inch. 2" vertical adjustability allows you to make the most use of vertical space on every level.

Safely holds up to **2800** lbs.



2"

All shelves & work surfaces adjust at 2" increments.

Height x Width x Length		SmartLever Base Kit	Add-On-Kit
Inches	mm		
36x18x36	914 x 457 x 914	SM361836-KIT	SM361836-ADD
36x18x42	914 x 457 x 1067	SM361842-KIT	SM361842-ADD
36x18x48	914 x 457 x 1219	SM361848-KIT	SM361848-ADD
36x18x60	914 x 457 x 1524	SM361860-KIT	SM361860-ADD
36x18x72	914 x 457 x 1829	SM361872-KIT	SM361872-ADD
36x21x36	914 x 533 x 914	SM362136-KIT	SM362136-ADD
36x21x42	914 x 533 x 1067	SM362142-KIT	SM362142-ADD
36x21x48	914 x 533 x 1219	SM362148-KIT	SM362148-ADD
36x21x60	914 x 533 x 1524	SM362160-KIT	SM362160-ADD
36x21x72	914 x 533 x 1829	SM362172-KIT	SM362172-ADD
36x30x36	914 x 762 x 914	SM363036-KIT	SM363036-ADD
36x30x42	914 x 762 x 1067	SM363042-KIT	SM363042-ADD
36x30x48	914 x 762 x 1219	SM363048-KIT	SM363048-ADD
36x30x60	914 x 762 x 1524	SM363060-KIT	SM363060-ADD
36x30x72	914 x 762 x 1829	SM363072-KIT	SM363072-ADD
76x18x36	1930 x 457 x 914	SM761836-KIT	SM761836-ADD
76x18x42	1930 x 457 x 1067	SM761842-KIT	SM761842-ADD
76x18x48	1930 x 457 x 1219	SM761848-KIT	SM761848-ADD
76x18x60	1930 x 457 x 1524	SM761860-KIT	SM761860-ADD
76x18x72	1930 x 457 x 1829	SM761872-KIT	SM761872-ADD
76x21x36	1930 x 533 x 914	SM762136-KIT	SM762136-ADD
76x21x42	1930 x 533 x 1067	SM762142-KIT	SM762142-ADD
76x21x48	1930 x 533 x 1219	SM762148-KIT	SM762148-ADD
76x21x60	1930 x 533 x 1524	SM762160-KIT	SM762160-ADD
76x21x72	1930 x 533 x 1829	SM762172-KIT	SM762172-ADD
76x30x36	1930 x 762 x 914	SM763036-KIT	SM763036-ADD
76x30x42	1930 x 762 x 1067	SM763042-KIT	SM763042-ADD
76x30x48	1930 x 762 x 1219	SM763048-KIT	SM763048-ADD
76x30x60	1930 x 762 x 1524	SM763060-KIT	SM763060-ADD
76x30x72	1930 x 762 x 1829	SM763072-KIT	SM763072-ADD
86x18x36	2184 x 457 x 914	SM861836-KIT	SM861836-ADD
86x18x42	2184 x 457 x 1067	SM861842-KIT	SM861842-ADD
86x18x48	2184 x 457 x 1219	SM861848-KIT	SM861848-ADD
86x18x60	2184 x 457 x 1524	SM861860-KIT	SM861860-ADD
86x18x72	2184 x 457 x 1829	SM861872-KIT	SM861872-ADD
86x21x36	2184 x 533 x 914	SM862136-KIT	SM862136-ADD
86x21x42	2184 x 533 x 1067	SM862142-KIT	SM862142-ADD
86x21x48	2184 x 533 x 1219	SM862148-KIT	SM862148-ADD
86x21x60	2184 x 533 x 1524	SM862160-KIT	SM862160-ADD
86x21x72	2184 x 533 x 1829	SM862172-KIT	SM862172-ADD
86x30x36	2184 x 762 x 914	SM863036-KIT	SM863036-ADD
86x30x42	2184 x 762 x 1067	SM863042-KIT	SM863042-ADD
86x30x48	2184 x 762 x 1219	SM863048-KIT	SM863048-ADD
86x30x60	2184 x 762 x 1524	SM863060-KIT	SM863060-ADD
86x30x72	2184 x 762 x 1829	SM863072-KIT	SM863072-ADD

SmartLever Kit Includes:

- (2) Uprights
- (2) Legs
- (2) Cross Braces
- (2) Cross Bars

Add-On-Kit Includes:

- (1) Upright
- (1) Leg
- (2) Cross Braces
- (2) Cross Bars

Upright Height

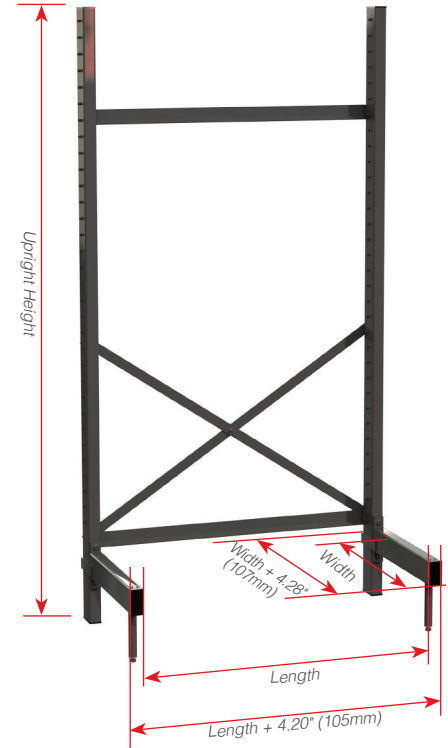
- 36" (914mm)
- 76" (1930mm)
- 86" (2184)

Width (Inside)

- 18" (457mm)
- 21" (533mm)
- 30" (762mm)

Length (Inside)

- 36" (914mm)
- 42" (1067mm)
- 48" (1219mm)
- 60" (1524mm)
- 72" (1829mm)



SmartLever™

Multifunctional Storage & Workstations

Width and length inside measurements are specifically intended for shelf and work surface selection. To obtain the exact outer dimensions:

- Add **4.20" (107mm)** to the nominal length for base units.
- Add **2.95" (75mm)** to add-on units.
- Add **4.28" (109mm)** to the width for both base and add-on units.

Compatible Shelves

Width/Length	Super Erecta Pro	Flat Galvanized	Solid Stainless	MetroSeal 3	Super Erecta Brite	Super Erecta Chrome	Super Erecta Stainless
18x36	PR1836NK3	1836FG	1836FS	1836NK3	1836BR	1836NC	1836NS
18x42	PR1842NK3	1842FG	1842FS	1842NK3	1842BR	1842NC	1842NS
18x48	PR1848NK3	1848FG	1848FS	1848NK3	1848BR	1848NC	1848NS
18x60	PR1860NK3	1860FG	1860FS	1860NK3	1860BR	1860NC	1860NS
18x72	PR1872NK3	-N/A-	-N/A-	1872NK3	1872BR	1872NC	1872NS
21x36	PR2136NK3	2136FG	2136FS	2136NK3	2136BR	2136NC	2136NS
21x42	PR2142NK3	2142FG	2142FS	2142NK3	2142BR	2142NC	2142NS
21x48	PR2148NK3	2148FG	2148FS	2148NK3	2148BR	2148NC	2148NS
21x60	PR2160NK3	2160FG	2160FS	2160NK3	2160BR	2160NC	2160NS
21x72	PR2172NK3	-N/A-	-N/A-	2172NK3	2172BR	2172NC	2172NS
30x36	-N/A-	-N/A-	-N/A-	3036NK3	-N/A-	3036NC	3036NS
30x48	-N/A-	-N/A-	-N/A-	3048NK3	-N/A-	3048NC	3048NS
30x60	-N/A-	-N/A-	-N/A-	3060NK3	-N/A-	3060NC	3060NS
30x72	-N/A-	-N/A-	-N/A-	3072NK3	-N/A-	3072NC	3072NS

Compatible Work Surfaces

Width/Length	Solid Stainless
30x36	SMW36
30x42	SMW42
30x48	SMW48
30x60	SMW60
30x72	SMW72

Accessory Grids

Grids	Chrome Plated	MetroSeal 3
18x36	WG1836BR	WG1836K3
18x48	WG1848BR	WG1848K3
18x60	WG1860BR	WG1860K3
30x36	-N/A-	WG3036K3
30x48	-N/A-	WG3048K3

Arms (Includes (4) shelf mount hooks)

Length	Arms Base Kit	Arm Add-On
18	SMA18	SMA18-Add
21	SMA21	SMA21-Add
30	SMA30	SMA30-Add

Hooks

Description	Part #
SmartLever Grid Bracket (pack of 4 hooks)	SMR
Single Leg Hook (pack of 4 hooks)	LSH1
Double Leg Hook (pack of 2 hooks)	LSH2

Dunnage Racks

For 18" leg	For 21" leg	For 30" leg
SMD1836	SMD2136	SMD3036
SMD1842	SMD2142	SMD3042
SMD1848	SMD2148	SMD3048
SMD1860	SMD2160	SMD3060

Build it
Safe
Build it
Smart

Order SmartLever with confidence.

- Step 1:** Define space – height, width, length
- Step 2:** Select kit for designated height/width/length
- Step 3:** Select compatible shelving or work surface to meet your application needs.
- Step 4:** Select arm pairs to match each shelf or work surface
- Step 5:** Add accessories or SmartWall grid to fit application if desired.

Contact us today.

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We put space to work.

an Ali Group Company



The Spirit of Excellence