

# UNT SYSTEM™

Strategic Infrastructure,  
Planning & Construction

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DATE: August 9, 2023  
TO: Potential Respondents  
FROM: Carrie Stoeckert—Senior Construction Contract Coordinator  
SUBJECT: Addendum #1  
RFCSP752-24-3594-14556CS  
Union Corner Renovation/Chick-fil-A Relocation

NOTICE: ATTACHED HERETO PLEASE FIND REVISED CD'S FOR THE ABOVE-REFERENCED PROJECT.

ATTACHMENT: 80307\_Univ of North Texas\_RELO\_CDs\_REV-03 08.03.2023

**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@rtmtec.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](mailto: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 MANUFACTURER'S 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/IS 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		REVISION #01	REVISION #02	REVISION #03
SHEET NO.	SHEET NAME			
<b>00 GENERAL</b>				
G-000	COVER SHEET	X	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			
<b>10 ARCH (DEMO)</b>				
D-201	DEMOLITION FLOOR PLAN			
D-221	DEMO RCP			
<b>12 ARCH (PLAN)</b>				
A-201	FLOOR PLAN	X	X	X
A-211	FINISH FLOOR PLAN	X		X
A-212	FINISH SCHEDULE AND DIGITAL MATERIAL BOARD	X		
A-221	REFLECTED CEILING PLAN	X		
A-501	POS HARDWARE TECHNOLOGY PLAN & SCHEDULE	X		
<b>16 ARCH (INTERIOR)</b>				
A-601	INTERIOR ELEVATIONS	X		
A-602	INTERIOR ELEVATIONS			X
A-603	INTERIOR ELEVATIONS		X	
A-620	INTERIOR DETAILS			
A-701	RESTROOM PLAN & ELEVATIONS	X		
A-801	DOOR AND HARDWARE SCHEDULE	X		
<b>18 ARCH (MILLWORK)</b>				
A-901	MILLWORK CURB PLAN AND DETAILS	X		
A-902	MILLWORK COUNTERTOP PLAN	X	X	
A-903	MILLWORK ELEVATIONS		X	
A-904	MILLWORK SECTIONS			
<b>19 ARCH (BRANDING)</b>				
F-201	BRANDING AND FURNISHING PLAN AND SCHEDULE	X		
<b>20 KITCHEN</b>				
K-001	GENERAL NOTES			
K-201	KITCHEN EQUIPMENT PLAN	X		X
K-202	KITCHEN EQUIPMENT PLAN			
K-601	ELECTRICAL ROUGH-IN ELEVATIONS	X		X
K-602	ELECTRICAL ROUGH-IN ELEVATION			X
K-611	PLUMBING ROUGH-IN ELEVATIONS			X
K-801	EQUIPMENT SCHEDULE	X	X	X
K-802	EQUIPMENT SCHEDULE	X	X	X
K-901	KITCHEN DETAILS			
K-902	KITCHEN DETAILS			
K-903	KITCHEN DETAILS			
K-904	KITCHEN DETAILS			
<b>30 ELECTRICAL</b>				
E0.00	ELECTRICAL NOTES, SYMBOL, COMCHECK	X		
E1.01	LIGHTING FLOOR PLAN	X		
E2.00	POWER FLOOR PLAN	X		X
E2.02	ELECTRICALEQUIPMENT SCHEDULE	X		
E3.0	ONE LINE DIAGRAM & PANEL SCHEDULES	X		
E4.0	GENERAL ELECTRICAL SPECIFICATIONS			
<b>40 MECHINCAL</b>				
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		
<b>50 PLUMBING</b>				
P0.00	PLUMBING SPECIFICATIONS			
P0.01	PLUMBING DETAILS			
P0.02	PLUMBING SCHEDULES	X		
P1.01	WASTE AND VENT PLUMBING PLAN	X		X
P1.02	WASTE AND GAS PLUMBING PLAN	X		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) 386-0276  
 www.MayseAssociates.com



08/2023 9:49:36 AM

**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
3	08.03.2023	Architecture Coordination REV

CONSULTANT PROJECT # 21136  
 PRINTED FOR CONSTRUCTION DOCUMENTS  
 DATE 8/3/2023 9:49:36 AM  
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**SHEET**  
 COVER SHEET

SHEET NUMBER  
**G-000**

BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT180307\_University of North Texas\_RELOCATION\_ARC.rvt  
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 80307-G-000-COVER SHEET

BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT180307\_University of North Texas\_RELLOCATION\_ARC.rvt  
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80307-G-001-GENERAL NOTES

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.	ON CENTER
A.B.	ANCHOR BOLT	OPNG.	OPENING
ARCH.	ARCHITECTURAL	OPP.	OPPOSITE
A.D.	AREA DRAIN	O.A.	OPPOSITE HAND
B.U. ROD	BACK-UP ROD	O.D.	OVER HEAD
BSMT.	BASEMENT	O.S.D.	OUTSIDE DIAMETER
B.M.	BEAM	O.V.	OVER ALL
B.M.	BENCH MARK	O.A.	OVER ALL
BLKG.	BLOCKING	P.T.D.	PAINTED
B.M.	BENCH MARK	P.L.M.	PLASTIC LAMINATE
BLDG.	BUILDING	PREFAB.	PREFABRICATED
BOT.	BOTTOM	P.T.	PRESSURE TREATED
BUILD.	BUILDING	P.W.	PLYWOOD
C.I.P.	CAST IN PLACE	P.L.M.B.	PLUMBING
CONC.	CONCRETE	P.W.D.	PLYWOOD
CLG.	CEILING	P.C.	PRECAST CONCRETE
CLM.	CENTERLINE	R.P.	REFLECTED PLAN
CTR.	CENTER	RECP.	RECEPT
CE.	CENTERLINE	R.F.	REFER OR REFERENCE
CER.	CERAMIC TILE	REF.	REFER OR REFERENCE
COL.	COLUMN	REIN.	REINFORCING
C.M.U.	CONCRETE MASONRY UNIT	REID.	REQUIRED
CONTR.	CONSTRUCTION	R.	RADIUS
CONTR.	CONTRACTOR	R.O.	ROUGH OPENING
COORD.	COORDINATE	R.W.	RED WOOD
C.O.	CORNER GUARD	S.A.B.	SOUND ATTENUATION BLANKET
DET.	DETAIL	SCHED.	SCHEDULE
DIA.	DIAMETER	SECT.	SECTION
DN.	DIMENSION	SH.	SHEET
DWG.	DRAWING	SIML.	SIMILAR
DN.	DOWN	SPEC.	SPECIFICATION
EA.	EACH	SQ.	SQUARE
ELEC.	ELECTRIC	S.S.	STAINLESS STEEL
E.W.C.	ELECTRIC WATER COOLER	S.T.	STANDARD
EQ.	EQUAL	STL.	STEEL
EQMT.	EQUIPMENT	STRUC.	STRUCTURAL
EXIST.	EXISTING	SYS.	SYSTEM
E.J.	EXPANSION JOINT	THK.	THICK
FN.	FINISH	T&G.	TONGUE & GROOVE
F.F.	FINISH FLOOR	T.O.S.	TOP OF SLAB
F.L.	FLOOR	T.O.S.T.	TOP OF STEEL
F.D.	FLOOR DRAIN	T.W.	TOP OF WALL
F.R.P.	FIBERGLASS REINFORCED PANELS	T.S.	TRANSITION STRIP
G.L.	GALVANIZED	TYP.	TYPICAL
GA.	GAUGE	U.O.	UNLESS NOTED OTHERWISE
GEN.	GENERAL	V.GR.	VERTICAL
GYP.BD.	GYPSPUM BOARD	V.V.C.	VINYL WALL COVERING
HARD.	HARDWARE	V.C.T.	VINYL COMPOSITION TILE
HDW.	HARDWARE	W.P.	WATERPROOFING
HT.	HEIGHT	W.M.	WORK POINT
H.M.	HOLLOW METAL	W.F.	WELDED WIRE MESH
HOR.	HORIZONTAL	W.	WITH
HR.	HOUR	W/O.	WITHOUT
I.D.	INSIDE DIAMETER	W.	WOOD
INSUL.	INSULATION	W.W.F.	WELDED WIRE FABRIC
INT.	INTERIOR		
JT.	JOINT		
LAV.	LAVATORY		
LT.	LIGHT		
LOC.	LOCATION		
L.H.	LONG LEG HORIZONTAL		
L.V.	LONG LEG VERTICAL		
MFR.	MANUFACTURER		
MAS.	MASONRY		
M.O.	MASONRY OPENING		
MAX.	MAXIMUM		
M.E.P.	MECH/ELEC/PLUMB.		
MECH.	MECHANICAL		
M.D.F.	MEDIUM DENSITY FIBERBOARD		
MTL.	METAL		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MOD.	MODIFIED		
NA.	NOT APPLICABLE		

STRUCTURAL NOTES				
<b>GENERAL NOTES</b>				
1. 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.				
2. COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, ANCHORS AND INSERTS.				
3. 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.				
4. DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILING, ETC. FROM METAL DECKING.				
<b>DESIGN CRITERIA</b>				
1. DESIGN SOIL BEARING PRESSURE = 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED PRIOR TO POURING SLAB. SOIL BEARING PRESSURE SHALL BE VERIFIED AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL BEARING PRESSURE.				
2. FLOOR LOADS: LIVE DEAD PLATFORM: 50 PSF 10 PSF				
<b>FOUNDATION NOTES</b>				
1. DESIGN SOIL BEARING PRESSURE = 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED PRIOR TO POURING SLAB. SOIL BEARING PRESSURE SHALL BE VERIFIED AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL BEARING PRESSURE. ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.				
2. THICKED SLABS UNDER BEARING WALLS AND COLUMNS SHALL BE POURED MONOLITHIC WITH SLAB.				
<b>CONCRETE NOTES</b>				
1. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: SLAB ON GRADE- 3000 PSI				
2. 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.R. REVIEW. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NECESSARY INFORMATION FOR APPROVAL BEFORE CONSTRUCTION BEGINS.				
3. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318.				
4. 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. NOIR SHALL BE LENGTH OF ANY PANEL, EXCEPT TWO TIMES THE WIDTH OF THAT PANEL. ALIGN JOINTS WITH JOINTS OF RIBBON SLAB WHERE POSSIBLE. FLOOR SLAB CONSTRUCTION JOINTS MAY BE DOWELED OR FORMED WITH METAL KEYS. SEE DETAIL 1/GN1-1				
<b>REINFORCING STEEL NOTES</b>				
1. SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).				
2. MATERIALS: REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60 WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A62 AND A165. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A706.				
3. CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS: CONCRETE PLACED AGAINST EARTH - 3" FORMED SURFACES EXPOSED TO EARTH - 2" TOP OF SLABS - 3/4"				
4. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPLICED BARS SHALL BE SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" WHEREVER POSSIBLE.				
5. 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.				
6. PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WWF.				
<b>METAL STUD NOTES</b>				
1. METAL STUD MANUFACTURER SHALL BE A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).				
2. METAL STUD STRENGTH CRITERIA: A. GAGES 25 THROUGH 19 - 35 KSI MIN. YIELD STRESS B. GAGES 16 THROUGH 12 - 50 KSI MIN. YIELD STRESS C. RUNNER TRACK - 35 KSI MIN. YIELD STRESS				
3. METAL STUD MEMBER DESIGNATION: 600 S 137-33 MILS GAUGE				
4. METAL STUDS AND ACCESSORIES SHALL HAVE A G60 GALVANIZED COATING UNLESS NOTED OTHERWISE.				
5. FASTENERS: A. 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. EMBEDMENT = 1" MIN. EDGE DISTANCE = 2" N. SPACING BETWEEN FASTENERS = 3"				
<b>METAL STUD SCHEDULE</b>				
TYPE	HEIGHT	3 5/8" STUD GYP. BD. BOTH SIDES	6" STUD GYP. BD. BOTH SIDES	3 5/8" STUD GYP. BD. ONE SIDE
NON-LOADBEARING	0'-0" TO 10'-0"	25 GA. @ 16" O.C.	25 GA. @ 16" O.C.	25 GA. @ 16" O.C.
NON-LOADBEARING	10'-0" TO 15'-0"	22 GA. @ 16" O.C.	25 GA. @ 16" O.C.	22 GA. @ 16" O.C.
NON-LOADBEARING	15'-0" TO 18'-0"	20 GA. @ 16" O.C.	20 GA. @ 16" O.C.	25 GA. @ 16" O.C.
NON-LOADBEARING	18'-0" TO 20'-0"	18 GA. @ 16" O.C.	18 GA. @ 16" O.C.	25 GA. @ 16" O.C.
LOADBEARING	0'-0" TO 10'-0"	18 GA. @ 12" O.C.	18 GA. @ 12" O.C.	NA
<b>NOTES:</b>				
1. THESE GAUGES REPRESENT INTERIOR PARTITIONS ONLY. REFER TO DRAWINGS FOR ADDITIONAL STUD GAUGES.				
2. ALL STUDS ARE SPACED 12" O.C. UNLESS OTHERWISE NOTED ON PLANS.				
3. CHASE WALL PARTITIONS SHALL HAVE VERTICAL CROSS BRACES AT 4'-0" O.C. MAX.				
4. COORDINATE STUD GAUGE AND NUMBER OF LAYERS OF SHEATHING AT FIRE RATED ASSEMBLIES WITH U.L. DESIGN REQUIREMENTS FOR PRODUCTS USED.				
5. PROVIDE ALL ACCESSORIES AS REQUIRED BY THE METAL STUD MANUFACTURER.				
<b>REBAR REINFORCING LAP LENGTHS</b> 3000 PSI CONCRETE (ACI 318-99)				
BAR SIZE	TENSION LAP SPICE - CLASS ATENSION LAP SPICE-CLASS B	COMPRESSION SPICE		
#3	17"	22"		
#4	22"	29"		
#5	28"	36"		
#6	33"	43"		
#7	48"	63"		
#8	55"	72"		
#9	62"	80"		
#10	70"	90"		
#11	77"	100"		

PROJECT NOTES	
<b>GENERAL NOTES</b>	
1. DO NOT SCALE ANY DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT TO ARCHITECT ANY DISCREPANCIES FOR CLARIFICATION.	
2. ALL WORK SHALL BE IN COMPLIANCE WITH THE STANDARD BUILDING RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURERS RECOMMENDATIONS, AND ALL OTHER APPLICABLE CODES.	
3. TO THE BEST OF OUR KNOWLEDGE, THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH CODES LISTED ON THE COVER SHEET.	
4. 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.	
5. 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.	
6. PROVIDE ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED CONFORMING TO CODES LISTED ON THE COVER SHEET.	
7. 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.	
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.	
9. BUILDING IS ASSUMED TO BE FULLY SPRINKLERED PER NFPA 13. PLANS FOR FIRE PROTECTION INCLUDING COMPLETE SEISMIC SUPPORT DETAILS SHALL BE REVIEWED AND APPROVED BY THE LOCAL FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION FOR COMPLIANCE WITH IBC SECTION 1621 AND NFPA 13. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PREPARE AND SUBMIT PLANS FOR REVIEW.	
10. PROVIDE ILLUMINATED EXIT SIGNS WITH BATTERY BACKUP DESIGNATING EXITS AND WAYS OF TRAVEL, THERE TO.	
11. 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 CONTINITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING, INCLUDING INTERSTITIAL SPACES. B. MASONRY UNITS, REINFORCING, MORTAR AND GROUT. 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.	
12. 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 10 OR PER LOCAL AUTHORITY.	
13. 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.	
14. 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.	
15. EVERY INTERIOR AND EXTERIOR DOOR IN THE TENANT SUITE SHALL BE PROVIDED WITH HANDICAP HARDWARE (LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED DEVICES, ETC).	
16. PROVIDE CONTINUOUS BLOCKING IN ALL STUD WALLS THAT ARE TO RECEIVE GRAB BARS, TOILET PARTITIONS, TENANT SIGNAGE, FABRIC AWNINGS AND ETC.	
17. ALL METAL STUD GAGE DESIGN SHALL BE AS REQUIRED BY PERFORMANCE AND AS INDICATED IN THE DRAWINGS.	
18. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES.	
19. WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.	
20. USE ONLY "LEAD-FREE" PIPE AND SOLDER FOR DOMESTIC WASTE SYSTEM (SAFE DRINKING WATER ACT OF 1986 AND S.S.P.C. SECTION 1210.14).	
21. ALL EXTERIOR MECHANICAL OPENINGS LARGER THAN 12" X 12" SHALL BE EQUIPPED WITH BURGLAR BARS.	
22. GC TO TREAT THE SOIL BENEATH SLAB WITH TERMITICIDE POISON UNLESS ALREADY TREATED.	
23. ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.	
<b>SHOP DRAWING NOTES:</b>	
1. CONTRACTOR SHALL FURNISH COMPLETE AND DETAILED SHOP DRAWINGS FOR THE FOLLOWING STRUCTURAL MATERIALS: A. CONCRETE, REINFORCING, MORTAR AND GROUT B. MASONRY UNITS, REINFORCING, MORTAR AND GROUT 2. UNLESS NOTED, SUBMIT SHOP DRAWINGS FOR ALL FABRICATED MATERIALS. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. ALL SHOP DRAWINGS MUST BEAR THE REVIEW STAMP OF THE GENERAL CONTRACTOR. UNSTAMPED SHOP DRAWINGS WILL BE REJECTED WITHOUT REVIEW. 3. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF ALL SHOP DRAWINGS AND PROOF OF WELDER CERTIFICATION AT THE JOB SITE AT ALL TIMES.	
<b>CONCRETE SLAB NOTES:</b>	
1. PROVIDE CONTINUOUS WATERPROOFING SILICONE BASED SEALANT AND BACKER ROD AT ALL STOREFRONT AND MASONRY JOINTS AND TERMINATIONS. SEALANT SHALL MATCH STOREFRONT.	
2. PROVIDE CONTINUOUS SEALANT AND BACKER ROD AT ALL JUNCTIONS BETWEEN DISSIMILAR MATERIALS, I.E. BRICK TO E.I.F.S., STOREFRONT TO BRICK, ETC. DOW CORNING #790.	
3. ALL METAL VENTS AND FLUES SHALL BE FLASHED WITH "PORTALS PLUS" FLASHING BOOT, TYPICAL. SEAL ALL METAL TO METAL CONNECTIONS WITH DOWCORNING #790. (NOTE: NO CLEAR SILICONE SEALANT SHALL BE ALLOWED).	
4. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKS SHALL BE CALKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED IN ACCORDANCE WITH SPECIFICATIONS.	
<b>JOINTS AND SEALANT NOTES:</b>	
1. PROVIDE CONTINUOUS WATERPROOFING SILICONE BASED SEALANT AND BACKER ROD AT ALL STOREFRONT AND MASONRY JOINTS AND TERMINATIONS. SEALANT SHALL MATCH STOREFRONT.	
2. PROVIDE CONTINUOUS SEALANT AND BACKER ROD AT ALL JUNCTIONS BETWEEN DISSIMILAR MATERIALS, I.E. BRICK TO E.I.F.S., STOREFRONT TO BRICK, ETC. DOW CORNING #790.	
3. ALL METAL VENTS AND FLUES SHALL BE FLASHED WITH "PORTALS PLUS" FLASHING BOOT, TYPICAL. SEAL ALL METAL TO METAL CONNECTIONS WITH DOWCORNING #790. (NOTE: NO CLEAR SILICONE SEALANT SHALL BE ALLOWED).	
4. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKS SHALL BE CALKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED IN ACCORDANCE WITH SPECIFICATIONS.	
<b>CONSTRUCTION DETAILS:</b>	
CONCRETE SLAB, SEE PLAN 15 MIL MIN. VAPOR BARRIER METAL KEYPED SLAB JOINT CONSTRUCTION JOINT 1/8" WIDE SAW CUT JOINT. FILL WITH JOINT SEALANT. SEE SPECIFICATIONS. CONCRETE SLAB, SEE PLAN 15 MIL MIN. VAPOR BARRIER 1/4" SUB THICKNESS CONTROL JOINT	
<b>NOTES:</b>	
1. SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.	
2. CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.	
3. SLAB CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN THREE TIMES THE SLAB THICKNESS IN FEET. ALSO, THE SLAB AREA BOUNDED BY THESE JOINTS SHALL HAVE A LENGTH NO MORE THAN 2 TIMES THE WIDTH.	

INSULATION NOTES	
1. FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR BATT INSULATION VAPOR RETARDER SHALL BE AS FOLLOWS: FLAME SPREAD: 25 SMOKE DEVELOPMENT: 450	
2. PROJECT HAS BEEN REVIEWED AS NOT SPRAY FOAM INSULATED. IF FOAM INSULATION IS USED, IT SHALL COMPLY WITH SECT. 2603 OF THE 2018 IBC. A MINIMUM HALF INCH GYP BOARD THERMAL BARRIER OR APPROVED/TESTED ALTERNATIVE IS REQUIRED PER SECTION 2603.4. "SUBMIT TEST REPORT OF FOAM INSULATION WITH THERMAL BARRIER FOR APPROVAL PRIOR TO FRAMING INSPECTION". TEST REPORT SHALL SHOW COMPLIANCE AT INSTALLED THICKNESS. ENSURE COMPLIANCE WITH SECT. 2603.2 LABELING AND IDENTIFICATION. CONTAINERS FROM FOAM AND INTUMESCENT COATINGS SHOULD BE LEFT ON SITE FOR THE BUILDING INSPECTOR TO EXAMINE. ACOUSTICAL TIE CEILING SYSTEMS ARE NOT AN APPROVED THERMAL BARRIER. SPRAY FOAM SHALL NOT BE PERMITTED IN RATED ASSEMBLIES UNLESS SPECIFICALLY ALLOWED IN LISTING.	
<b>WOOD NOTES:</b>	
1. WOOD FRAMING LUMBER (KILN DRIED TO 19% MAX. MOISTURE CONTENT): A. ROOF AND FLOOR FRAMING MEMBERS, AND WALL PLATES SHALL BE NO. 2 SOUTHERN YELLOW PINE OR BETTER. B. METAL FRAMING ANCHORS AND HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE UNLESS APPROVED OTHERWISE. PROVIDE HOT-DIP ZINC COATED FASTENERS WHERE FRAMING IS EXPOSED TO WEATHER. INSTALL PER MANUFACTURER'S SPECIFICATIONS. C. ALL LUMBER FRAMING SHALL BE MARKED WITH A GRADE STAMP. D. WOOD STRUCTURAL PANELS SHALL BE APA RATED STRUCTURAL WOOD SHEATHING OF THICKNESS INDICATED. PROVIDE 1/8" GAP AT ALL SHEATHING PANEL EDGES. PROVIDE ONE PLY/CLIP BETWEEN SUPPORTS AT ALL UNLOCKED SHEATHING PANEL EDGES. E. METAL FRAMING ANCHORS AND HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE UNLESS APPROVED OTHERWISE. PROVIDE HOT-DIP ZINC COATED FASTENERS WHERE FRAMING IS EXPOSED TO WEATHER. INSTALL PER MANUFACTURER'S SPECIFICATIONS. F. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED WITH WATERPROOFING TREATMENT. 20% MAXIMUM MOISTURE CONTENT. G. ALL FASTENERS USED IN OR TO COME IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL OR SIMPSON STRONG-TIE MAXIMUM LENGTH. ALL FASTENERS INCLUDE, BUT ARE NOT LIMITED TO, ANCHOR BOLTS, MUDSILL ANCHORS, NAILS, SCREWS, ETC. H. DRILL BOLT HOLES IN WOOD 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT. REPAIR OVERSIZED HOLES WITH SIMPSON BR-665 BEARING PLATE WASHERS. I. PROVIDE 2" SQUARE X 3/16" PLATE WASHERS AND NUTS FOR ALL BOLTS IN WOOD MEMBERS. RE-TORQUE NUTS 48 HOURS AFTER FIRST TIGHTENING. J. THE NUMBER OR SPACING OF NAILS CONNECTING WOOD MEMBERS SHALL BE AS INDICATED BUT NOT LESS THAN THOSE SPECIFIED IN IBC "FASTENING SCHEDULE" TABLE 2304.1. K. POWER DRIVEN FASTENERS SHALL CONFORM TO CABO NER-272.	
2. FRAMING STANDARDS, COMPLY WITH AFPA "MANUAL FOR WOOD FRAME CONSTRUCTION" AND CHAPTER 23 OF THE "INTERNATIONAL BUILDING CODE".	
<b>FIRE NOTES:</b>	
1. THE OCCUPANCY CONTENT SHALL BE DETERMINED BY THE BUILDING DESIGNER AND CAN BE FOUND IN THE OCCUPANCY NOTES AND VERIFIED BY FIRE SERVICES.	
2. PROVIDE CLASS A CEILING AS SPECIFIED ON THE REFLECTED CEILING PLAN AND FINISH SCHEDULE.	
3. PROVIDE THERMAL AND SOUND INSULATION PER BUILDING STANDARD REQUIREMENTS IN ACCORDANCE WITH INSULATION NOTES.	
4. ALL WOOD SHALL BE FIRE-RETARDANT, INCLUDING BUT NOT LIMITED TO BLOCKING AND PLYWOOD, UNLESS NOTED OTHERWISE.	
5. PROVIDED FIRE BLOCKING IN STUD WALLS & CEILINGS SO THAT VERTICAL DISTANCE SHALL NOT EXCEED 10'.	
6. WHERE FIRE SPRINKLER SYSTEM IS EXISTING, GENERAL CONTRACTOR RESPONSIBLE FOR ADJUSTING SPRINKLER HEADS FOR NEW CEILING HEIGHTS AND FLOOR PLAN. ADJUSTMENTS ARE TO BE MADE BY CERTIFIED SPRINKLER SUB-CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE WITH BUILDING STANDARDS.	
7. PROVIDE PORTABLE FIRE EXTINGUISHERS AS SPECIFIED IN LIFE SAFETY NOTE #2.	
8. COOKING EQUIPMENT SHALL BE IN ACCORDANCE WITH NFPA 96 RE: MECHANICAL.	
9. PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.	
10. PROVIDE HVAC SYSTEM IN ACCORDANCE WITH NFPA 90A RE: MECHANICAL.	
11. PROVIDE CLASS A CEILING AS SPECIFIED ON THE REFLECTED CEILING PLAN AND FINISH SCHEDULE.	
12. PROVIDE MINIMUM OF CLASS "C" FINISHED ON WALLS AS SPECIFIED IN FINISH SCHEDULE.	
13. COORDINATE OPENING PROTECTION BETWEEN FOOD PREPARATION AND SERVICE AREAS WITH BUILDING STANDARDS.	
14. ALL ELEMENTS OF THE SPRINKLER SYSTEM SHALL BE IN PROPER WORKING ORDER CONFORMING TO THE NEW PARTITION LAYOUT, IF APPLICABLE.	
15. FIRE SPRINKLER SYSTEMS REQUIRE A SEPARATE PERMIT BY THE FIRE MARSHAL'S OFFICE. IT IS NOT INCLUDED WITH THE BUILDING PERMIT.	
16. WHERE A FIRE SPRINKLER SYSTEM EXISTS, UPON COMPLETION OF THE REMODEL, ALL ELEMENTS OF THE SPRINKLER SYSTEM SHALL BE IN PROPER WORKING ORDER CONFORMING TO THE NEW PARTITION LAYOUT, IF APPLICABLE.	
17. ALL BUILDING OR SITE SIGNAGE REQUIRES A SEPARATE SIGN PERMIT THROUGH PLANNING SERVICES. IT IS NOT INCLUDED IN THIS REVIEW OR WITH THE BUILDING PERMIT.	
18. FINISHES SHALL COMPLY WITH THE MAXIMUM FLAME SPREAD CLASSIFICATION, A, B, OR C. ALLOWED PER TABLE 803.13 FOR INTERIOR WALLS AND CEILINGS.	
<b>LIFE SAFETY NOTES:</b>	
1. OCCUPANT LOAD SIGN, PROVIDE 2" X 8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING "MAXIMUM OCCUPANT LOAD XXX" (SEE CS FOR MAXIMUM OCCUPANT LOAD).	
2. PROVIDE #10 ABC FIRE EXTINGUISHERS SUITABLE FOR CLASS AB FIRES USING DRY CHEMICAL, AS REQUIRED BY LOCAL AUTHORITIES. LOCATE PER LOCAL AUTHORITIES. PROVIDE #10K RATED FIRE EXTINGUISHER AS REQUIRED BY LOCAL AUTHORITIES IN THE KITCHEN.	



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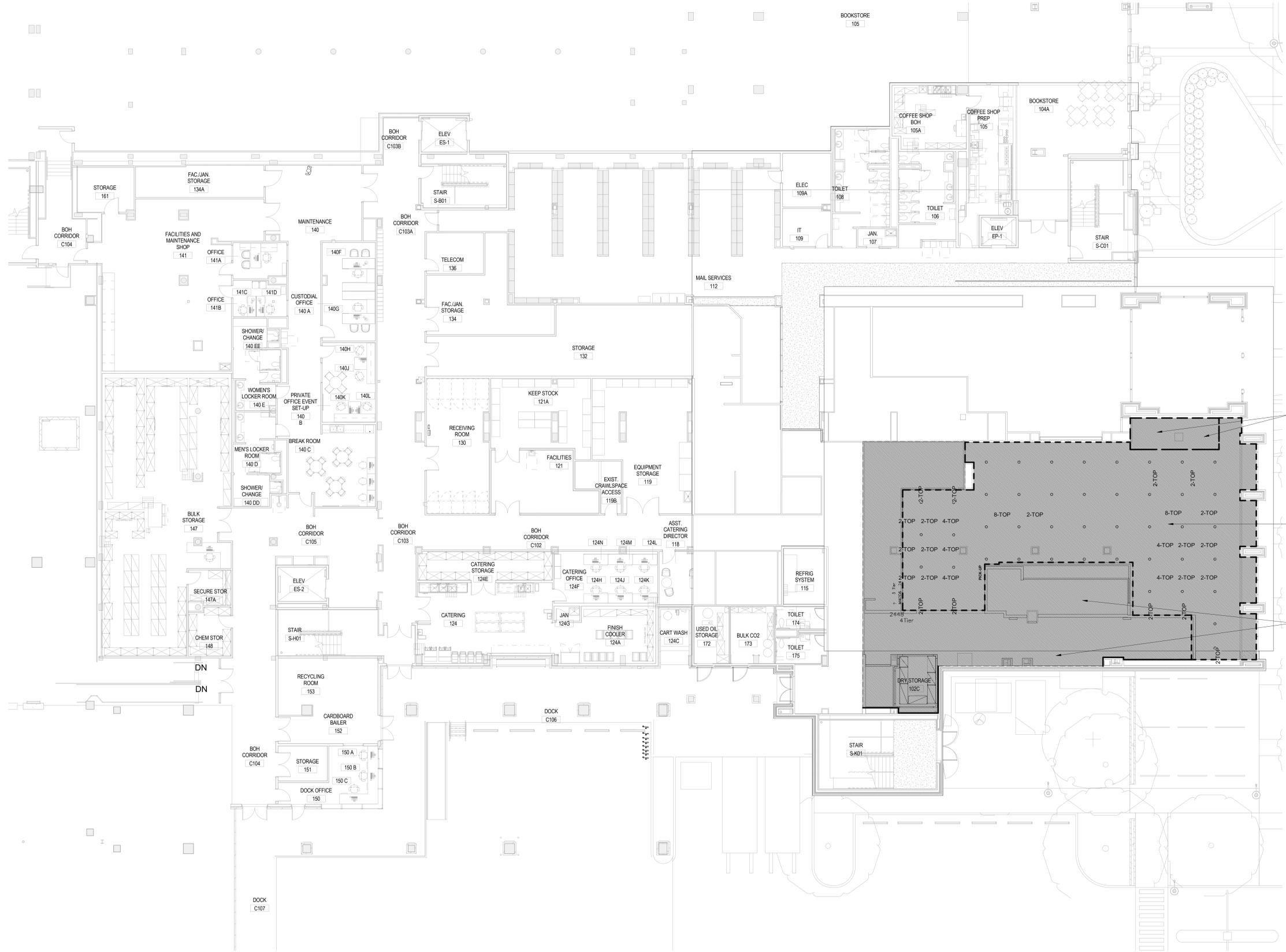
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1155 UNION CIRCLE  
DENTON, TX 76203

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

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136  
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DATE

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 80307-G-002-CONTEXT PLAN



1 CONTEXT PLAN  
 1" = 10'-0"



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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

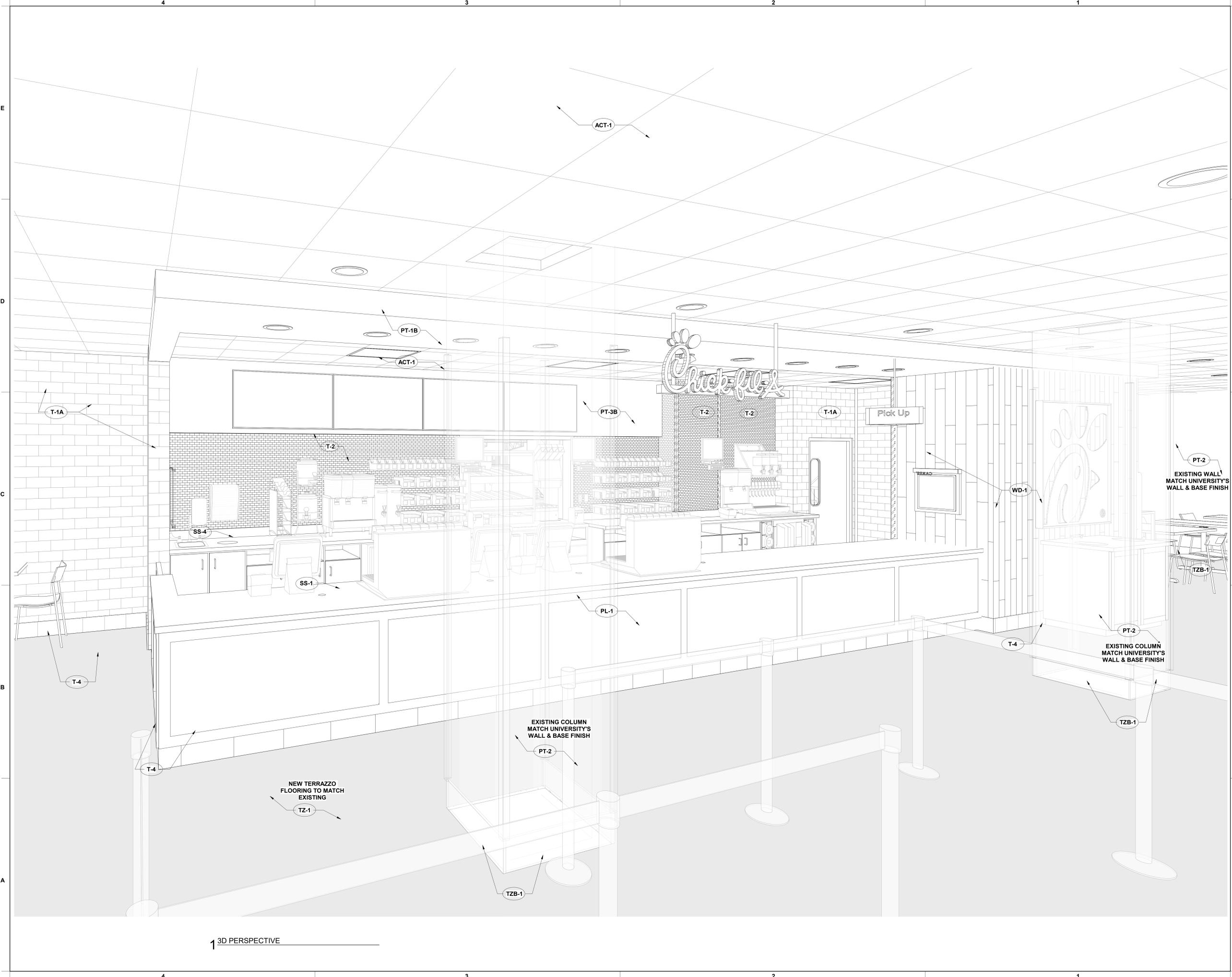
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 SHEET  
 CONTEXT PLAN

SHEET NUMBER  
**G-002**

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 80307-G-003-3D PERSPECTIVE



1 3D PERSPECTIVE



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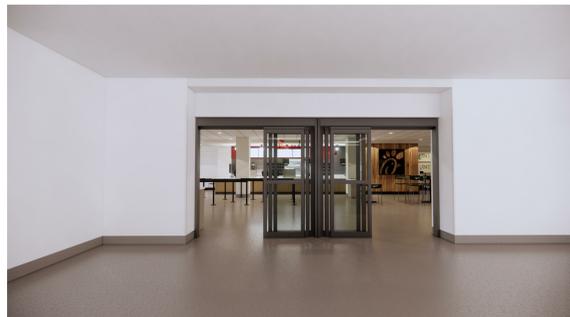
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SHEET 3D PERSPECTIVE

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SHEET 3D COLOR RENDERINGS

SHEET NUMBER

**G-004**

CONSTRUCTION DOCUMENTS

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### 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	706-984-1448		MHARRISON@BRICK.COM	PLANT LOCATED IN AUSTIN, TX
BRICK	C04-810	GENERAL SHALE	DAVID GILMORE	830-962-4000		DAVID.GILMORE@GENERALSHALE.COM	
BRICK	C04-810	HC MUDDOX	DON SACKETT	720-323-5636		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 BESSEMER, 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	412-628-3956		LUKE.OLIVER@GLENGLERY.COM	PLANT LOCATED IN PITTSBURG, PA
EXTERIOR METAL	C05-500	EXCEPTIONAL METALS	JASON DARK	989-397-7481		JDARK@DURO-LAST.COM	METAL PARAPET COPING, FASCIA & SOFFIT AT ROOF TOWER
STRUCTURAL FRAMING	C06-170	REDD BUILT	DAVID THOMPSON	877-371-0448		DTHOMPSON@REDDBUILT.COM	
WOOD (DECORATIVE)	C06-200	SKYLAR MORGAN	STEPHANIE MORGAN	404-565-0637	EXT. 111	CFAORDERS@SKYLARMORGANFURNITURE.COM	
MILLWORK	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSCFX.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
MILLWORK	C06-220	FCC	MICHELLE GANSKO	800-322-7328	EXT. 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
WOOD (WAINSCOTING)	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSCFX.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WOOD (WAINSCOTING)	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 GILINSON	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	678-838-6035		JAMILLAWALCOTT@YKKAP.COM	ALL REGIONS
DRIVE-THRU DOOR	C08-480	TORMAX	DESHARA SOTO	210-494-3511		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 GRITMAN	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	DAL TILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
TILE	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
TILE	C09-310	DAL TILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
FLOORING (PLAYGROUND)	C09-330	PROJECT INNOVATIONS, INC.	PETE GRIFFIN	727-938-4422		PROJECTINNOVATIONS@GMAIL.COM	ORDER THROUGH SOFT PLAY
FLOORING (PLAYGROUND)	C09-330	THE PLAYGROUND GUYS	ROB PARENT	773-463-7170		THEPLAYGROUNDGUYS@GMAIL.COM	ORDER THROUGH SOFT PLAY
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-5773		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	C10-285	KOROGARD	MARTHA SMITH	404-771-5773		MSMITH@KOROSEAL.COM	
EXTERIOR SIGNS	C10-420	ANCHOR SIGN	JOSHUA MJUCKLEVANEY	843-576-3275		JMJUCKLEVANEY@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.	TREY 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		CHICKFILA@UNISTRUCTURES.COM	SOUTHEAST AND ATLANTIC REGION
DRIVE-THRU ORDER AREA CANOPY (FABRIC)	C10-440	SUPERIOR INNOVATION, INC.	BRUCE BARKER	615-410-5463		BRUCE.BARKER@SIBRANDS.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	704-645-7515		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	SOUTHWEST REGION
ORDER POINT & CLEARANCE BAR	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILA@UNISTRUCTURES.COM	
WALL PARTITIONS (BATH)	C10-810	CLAYTON FIXTURE (CFX)	STEVE SAMUELSON	404-684-8783		CHICKFILA@CLAYTONFIXTURE.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WALL PARTITIONS (BATH)	C10-810	DH PACE	CHARLES GRITMAN	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@COHFC.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	770-478-8803		ANORRIS@LOWTEMPIND.COM	
AIR DOORS	C15-715	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@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		SGEORGE@TOMBARRROW.COM	
FANS & CURBS (EXHAUST)	C15-836	TOM BARRROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@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		SGEORGE@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	226-919-7698		CFA-ACCOUNT@CINEPLEX.COM	PLACE ORDER ONLINE AT <a href="https://tinyurl.com/CFADigitalmenuboardprogram">https://tinyurl.com/CFADigitalmenuboardprogram</a>

### 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	
<b>01 GENERAL CONSTRUCTION</b>									
NEW PARTITIONS			X				X		
STRUCT. & MISC. STEEL FRAMING			X				X		AS REQUIRED, FOR RTU, MUAU, HOODS
METAL REVEALS AND TRIM			X				X		
GYP. BD CEILING AND SOFFITS			X				X		
LAY-IN CEILINGS			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		
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
WAINSCOTING			X				X		ORDER FROM NATIONAL ACCOUNT VENDOR; SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL
MILLWORK			X				X		
<b>02 ELECTRICAL</b>									
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
SIGNALS & C.C. CONNECTIONS			X				X		
<b>03 FIRE ALARM/LIFE SAFETY</b>									
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		
<b>04 MECHANICAL SYSTEMS</b>									
HVAC HEATING AND COOLING EQUIPMENT			X				X		CONFIRM WITH MECH SYSTEM
DUCTWORK DISTRIBUTION			X				X		INCLUDING DUCT WRAP/LINER
DIFFUSERS/RETURNS			X				X		FACTORY FINISH TO MATCH CEILING
THERMOSTATS			X				X		
CONTROL WIRING			X				X		
DAMPERS			X						



**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 75244  
 Phone: (972) 386-0338 Fax: (972) 386-0276  
 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

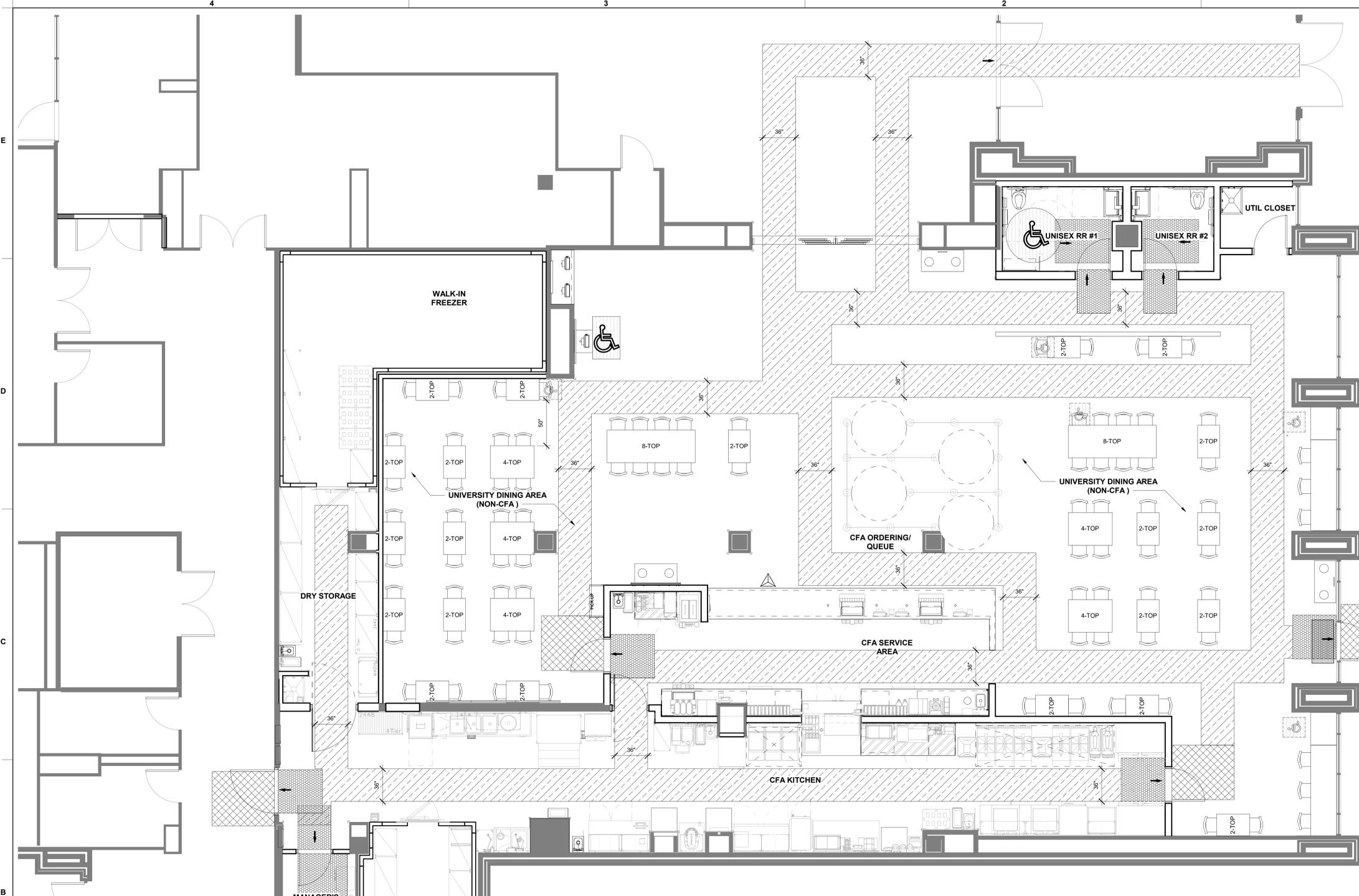
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136  
 PRINTED FOR CONSTRUCTION DOCUMENTS  
 DATE 8/3/2023 9:49:54 AM  
 DRAWN BY Designer  
 ACCESSIBILITY PLAN

SHEET NUMBER  
**G-006**

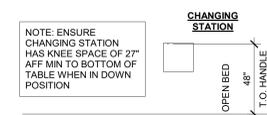
**ACCESSIBILITY NOTES**

- 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.O.
- 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.

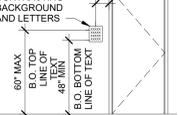


**ACCESSIBILITY REQUIREMENTS**

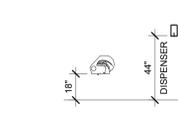
**TYPICAL MOUNTING - MISC**



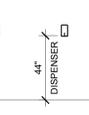
**DOOR SIGNAGE**



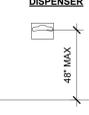
**TOILET PAPER DISPENSER**



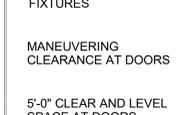
**SOAP DISPENSER**



**HAND SANITIZER**



**TOILET SEAT COVER DISPENSER**



**CHANGING STATION**



**DOOR SIGNAGE**



**TOILET PAPER DISPENSER**



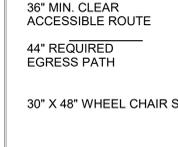
**SOAP DISPENSER**



**HAND SANITIZER**



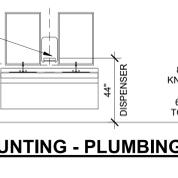
**TOILET SEAT COVER DISPENSER**



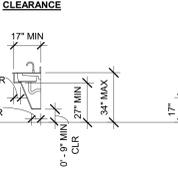
**NOTE: ENSURE CHANGING STATION HAS KNEE SPACE OF 27" AFF MIN TO BOTTOM OF TABLE WHEN IN DOWN POSITION**



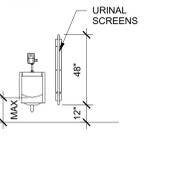
**VANITY COUNTER**



**ACCESSIBLE LAVATORY CLEARANCE**



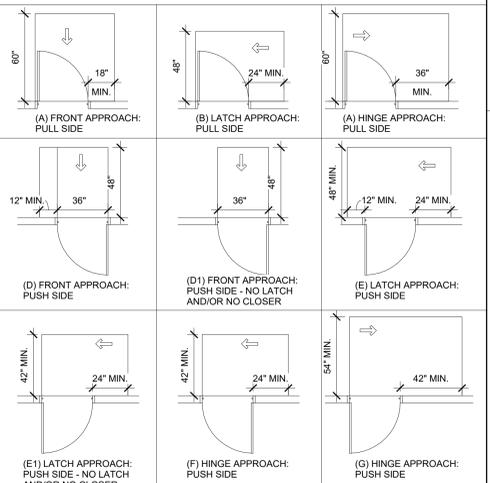
**ACCESSIBLE URINAL**



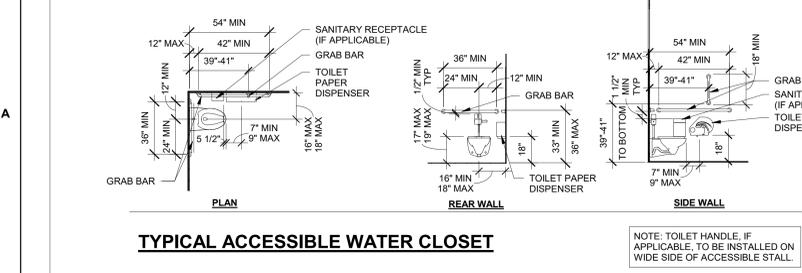
**ACCESSIBILITY LEGEND**

- 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"



**TYPICAL ACCESSIBLE WATER CLOSET**

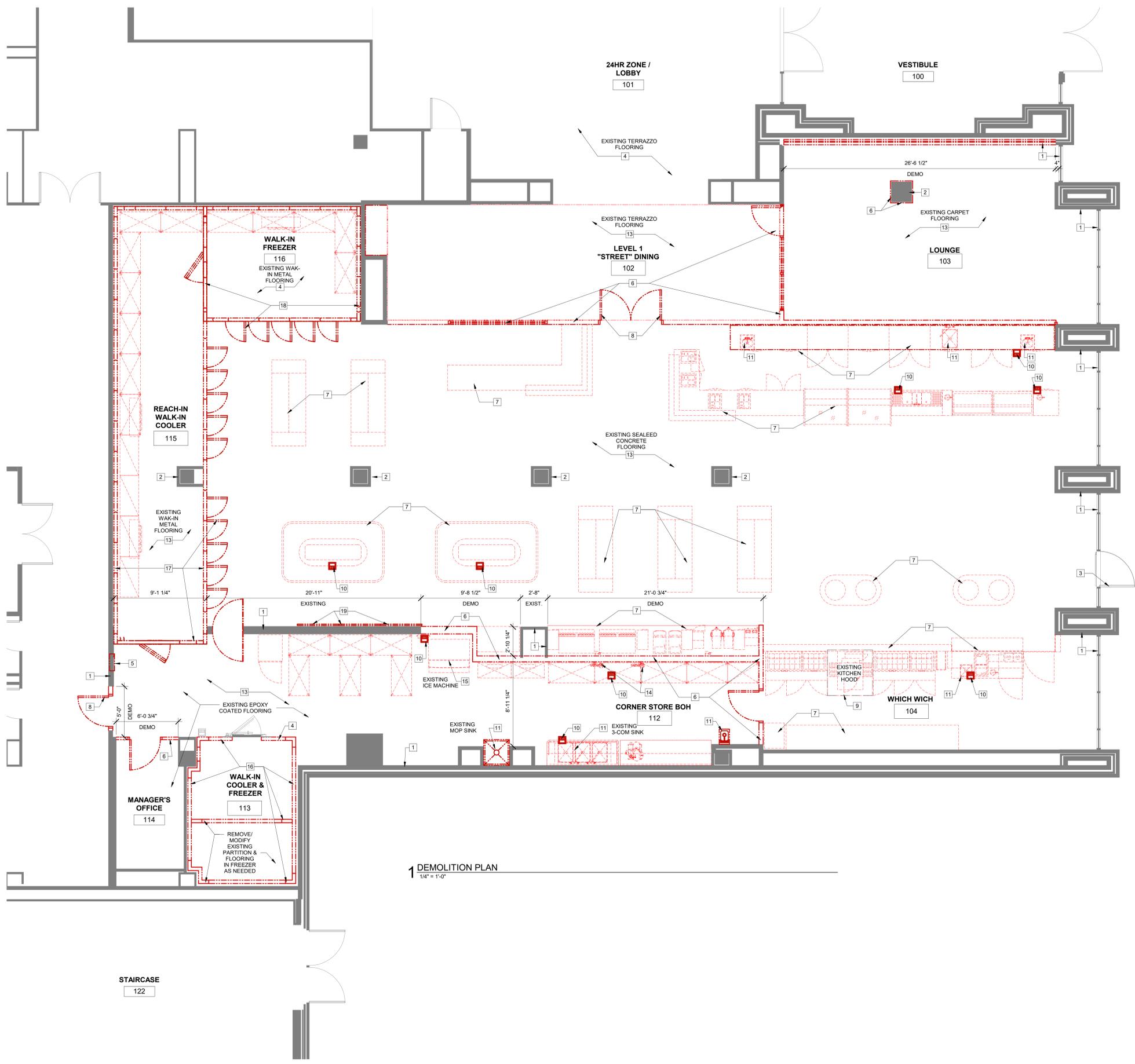
NOTE: TOILET HANDLE, IF APPLICABLE, TO BE INSTALLED ON WIDE SIDE OF ACCESSIBLE STALL.

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 8/3/2023 9:49:54 AM  
 80307-G-006-ACCESSIBILITY PLAN

CONSTRUCTION DOCUMENTS



BIM:360/UTX\_80307\_University of North Texas\_2021.12\_SAT80307\_University of North Texas\_RELOCATION\_ARC.rvt  
 8/3/2023 9:49:28 AM  
 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.
- FALL 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 & 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. 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

CONSULTANT PROJECT # 21136  
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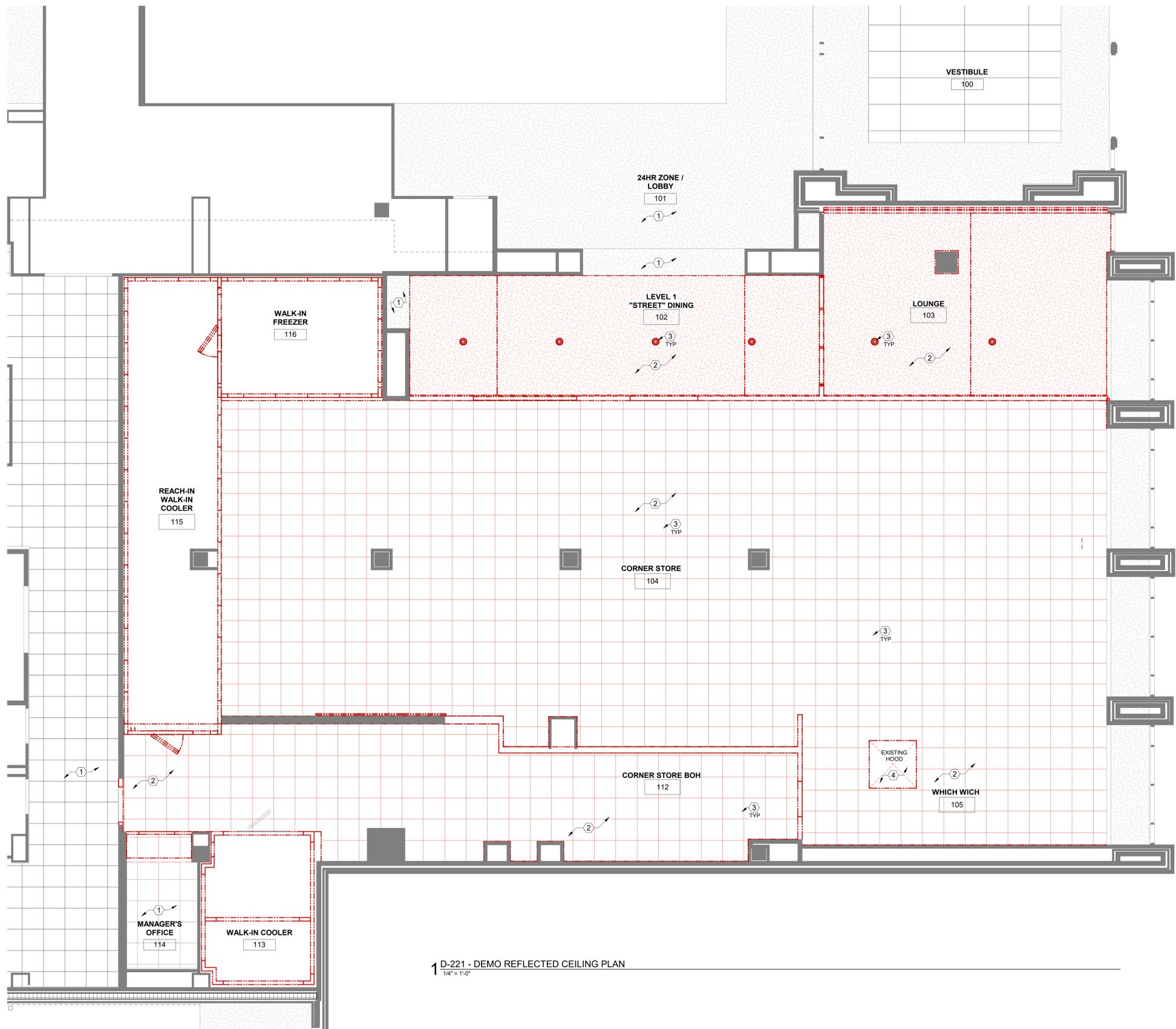
SHEET DEMOLITION FLOOR PLAN

SHEET NUMBER

**D-201**

CONSTRUCTION DOCUMENTS

BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT80307\_University of North Texas\_RELOCATION\_ARC.rvt  
 8/3/2023 9:49:30 AM  
 80307-D-221-DEMO RCP



1 D-221 - DEMO REFLECTED CEILING 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 PROCESS.
- 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.

**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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 BUILDING TYPE / SIZE: LCV / LCV  
 RELEASE: 20.11

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 21136  
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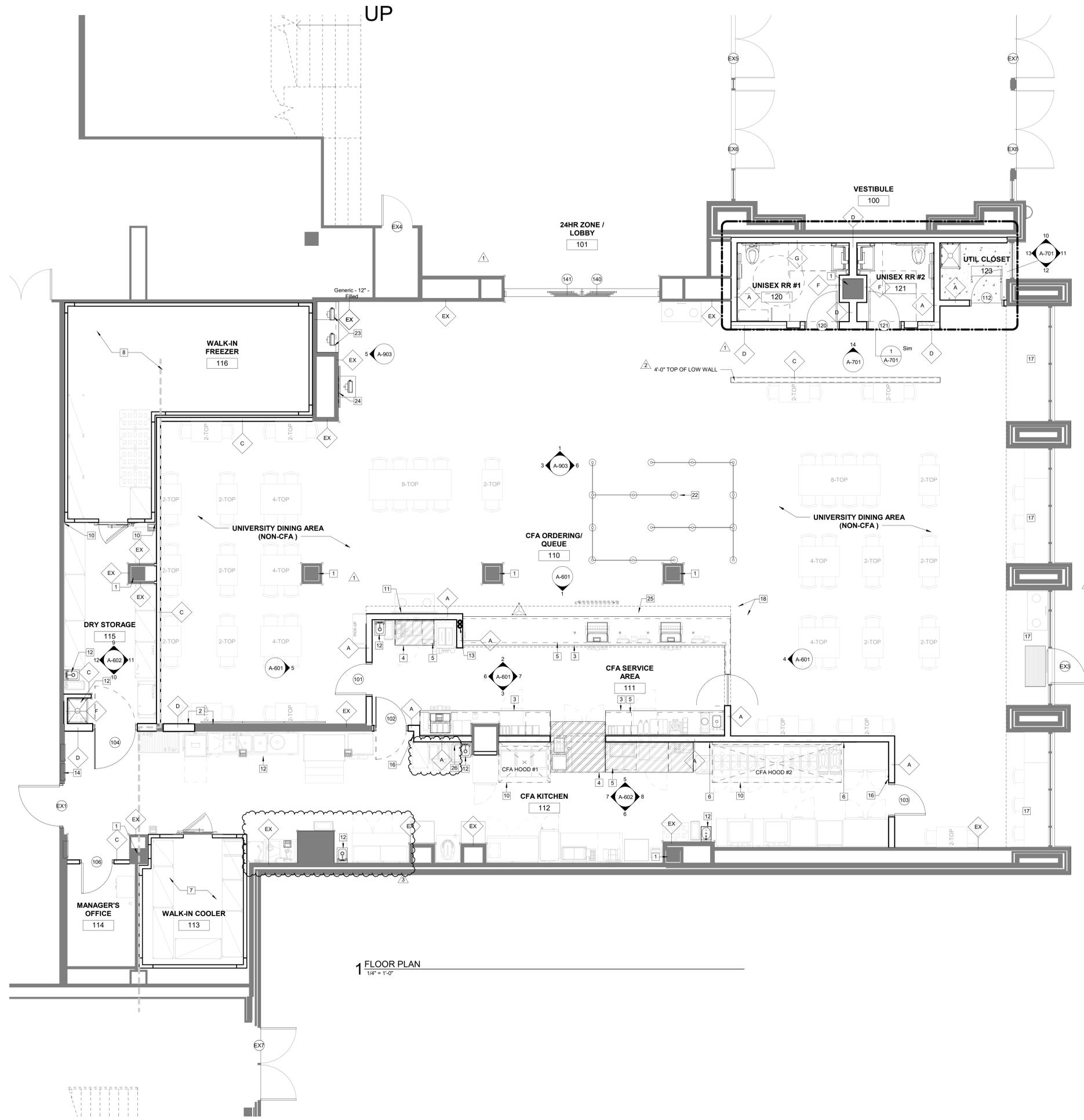
SHEET DEMO RCP

SHEET NUMBER

**D-221**

CONSTRUCTION DOCUMENTS

BIM:360/ITX\_80307\_University of North Texas\_2021-12\_SAT:80307\_University of North Texas\_RELOCATION\_ARC.rvt  
 8/3/2023 9:47:38 AM  
 80307-A-201-FLOOR PLAN



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

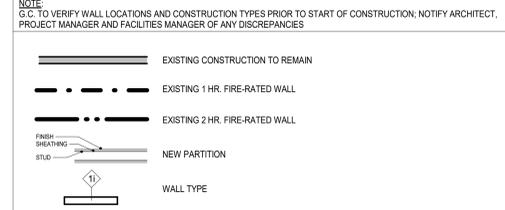
**GENERAL NOTES: FLOOR PLAN**

1. 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.
2. DEMISING WALLS ARE NOT STRUCTURAL. PROVIDE ALL ADDITIONAL IN-WALL BLOCKING OR SUPPORT AS REQUIRED.
3. DIMENSIONS ARE FROM THE FACE OF THE STUD UNLESS OTHERWISE NOTED.
4. ALL FASTENERS, ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD AND ARE LESS THAN 3/8" THICK SHALL BE G185 COATED GALVANIZED, STAINLESS STEEL OR AN APPROVED EQUAL.
5. REFER TO FINISH PLAN FOR LOCATIONS AND TYPES OF CORNER GUARDS.
6. LIMITED COMBUSTIBLE CONSTRUCTION SHALL CONSIST OF METAL STUDS, 5/8" DURAROCK, 5/8" FIRE-RETARDANT CDX PLYWOOD AND STAINLESS STEEL.
7. ALL WOOD TO BE NON-COMBUSTIBLE TYPE ONLY (FIRE-RETARDANT TREATED); UNLESS NOTED OTHERWISE.
8. LIMITED COMBUSTION CONSTRUCTION SHALL BE USED WITHIN 18" BEHIND AND UNDER ALL HOODS.
9. SEE METAL STUD SCHEDULE ON G-001 FOR GAUGES OF METAL STUDS IF NOT OTHERWISE SPECIFIED.

**CONSTRUCTION NOTES: FLOOR PLAN**

1. PROVIDE TEMPORARY BARRICADE DURING CONSTRUCTION AS NECESSARY BY LOCAL ORDINANCES; COORDINATE WITH PROJECT AND FACILITIES MANAGERS.
2. SOFFITS AND SUSPENDED CEILING SHALL BE SECURED TO STRUCTURAL FRAMING ONLY; SEE DETAILS.
3. 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.
4. 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.
5. FLOOR DRAINS REQUIRED IN ALL KITCHENS, FOOD PREPARATION AREAS, ANY OTHER LOCATIONS WHERE WATER IS USED.
6. PROTECT AND MAINTAIN ACCESS TO AN EXISTING HVAC, ELECTRICAL AND PLUMBING SYSTEMS INCLUDING, BUT NOT LIMITED TO, CLEANOUTS, VALVES, DAMPERS, JUNCTION BOXES, SMOKE DETECTORS, ETC.
7. ALL TRANSITIONS BETWEEN DISSIMILAR FLOOR MATERIALS MUST BE FLUSH AND LEVEL.
8. EXISTING SECURITY CAMERAS TO BE RELOCATED TO VIEW RESTROOM DOORS. GC TO CONFIRM WITH UNIT IT DEPT / IT CONSULTANT (ENTECH).

**PARTITION TYPE LEGEND**



**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 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
26	NEW EYEWASH, COORDINATE WITH KITCHEN AND PLUMBING SHEETS



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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
3	08.03.2023	Architecture Coordination REV

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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	CERTANTEED 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				(T3 & T4)		
G-3	FLOOR TILE GROUT	HERAFOXY / ES CO	HERAFOXY / ES CO				(KT1 SERIES), GC TO INSTALL WITH STANDARD THINSET MORTAR		
KT-1A	KITCHEN TILE	DAL TILE	QUARRY - GRAY	Q3585	GRAY QUARRY 0103	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR		
RT-1A	RESTROOM FLOOR TILE	CERAMIC TECHNIQS/ MOSA STAGE	MID WARM GREY	3510	MID WARM GREY / 3510	12" X 24"	JOINT WIDTH: 3/8" W THINSET MORTAR. MATCH EXISTING UNIVERSITY RESTROOMS		
T3	PORCELAIN TILE	DAL TILE	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		
TZ-1	TERRAZZO FLOORING	RESINOUS MATRIX TERRAZZO	MATCH EXISTING	TM 12-3149	TM 12-3149		(MATCH EXISTING TERRAZZO FLOORING - COLOR, CONTROL JOINT & THICKNESS)		
04	WALL BASE FINISHES								
KT-1B	KITCHEN TILE COVE BASE	DAL TILE	QUARRY - GRAY	Q3585	GRAY QUARRY 0103	6" X 12" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR		
RT-1B	RESTROOM FLOOR TILE	CERAMIC TECHNIQS/ MOSA STAGE	MID WARM GREY	3510	MID WARM GREY / 3510	3.8" X 24" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR. (MATCH EXISTING UNIVERSITY RESTROOMS)		
T4	PORCELAIN TILE COVE BASE	DAL TILE	CHIC - STONE GRAY	N633	CHIC - STONE GRAY	6" X 12" COVE	JOINT WIDTH: 3/16"		
TZB-1	TERRAZZO WALL BASE	RESINOUS MATRIX TERRAZZO	MATCH EXISTING - 4" COVE BASE	TM 12-3149	TM 12-3149	4" COVE BASE	(MATCH EXISTING TERRAZZO BASE - COLOR & THICKNESS)		
04	WALL FINISHES								
FRP-2	FRP WALL PANELS @ KITCHEN	MARLITE	STANDARD FRP	P-199	BRIGHT WHITE	0.097" 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	UNSANDED	98GRAY		T-1 SERIES, T-2, T-5, T-6		
PT-1B	PRIMARY WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7911	NATURAL CHOICE				
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	DAL TILE	BISCUIT	K175	BISCUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"		
T-1E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	DAL TILE	BISCUIT	K175 / S4849	BISCUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"		
T-2	STAINLESS STEEL WALL TILE	DAL TILE	VOQUE STAINLESS STEEL	MCSAC	VOQUE STAINLESS STEEL	1" 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	WAINSCOTING	CLAYTON FIXTURE	1/4" PLYWOOD		WOOD STAINED GRIFIN LIGHT WITH GLAZE		SEE A-400 SERIES DRAWINGS & CLAYTON FIXTURE SHOPS, MUST BE ORDERED THROUGH CLAYTON FIXTURES		
WT-1	RESTROOM PORCELAIN WALL TILE	CERAMIC TECHNIQS/ MOSA STAGE	GLOBAL COLLECTION/ GLOBALGRIP	16860	PLAN WHITE UNBLEACHED - GLAZED	4" X 12"	MATCH EXISTING BLDG STANDARD RESTROOM TILE FINISH. PROVIDE BULLNOSE @ TOP COURSE. RESTROOM TILE WAINSCOT		
WT-2	RESTROOM ACCENT PORCELAIN WALL TILE	CERAMIC TECHNIQS WALL TILE	STONERWORKS 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-98	SHADOW				
PL-3	PLASTIC LAMINATE	WILSONART	BASICS	4878-38	PEWTER MESH		REAR SERVICE COUNTER FACE		
S-2	STAINLESS STEEL COUNTERTOPS		17 GAUGE STAINLESS STEEL OVER (2) LAYERS MARINE GRADE PLYWOOD GRADE 304				BRUSHED #4 FINISH WITH MATTE FINISH, SURFACE ROUGHNESS OF RA 25 MICRO INCHES OR LESS		
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	SCHIEWE	A60R	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) (WHERE POSSIBLE) 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 30" ABOVE 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**

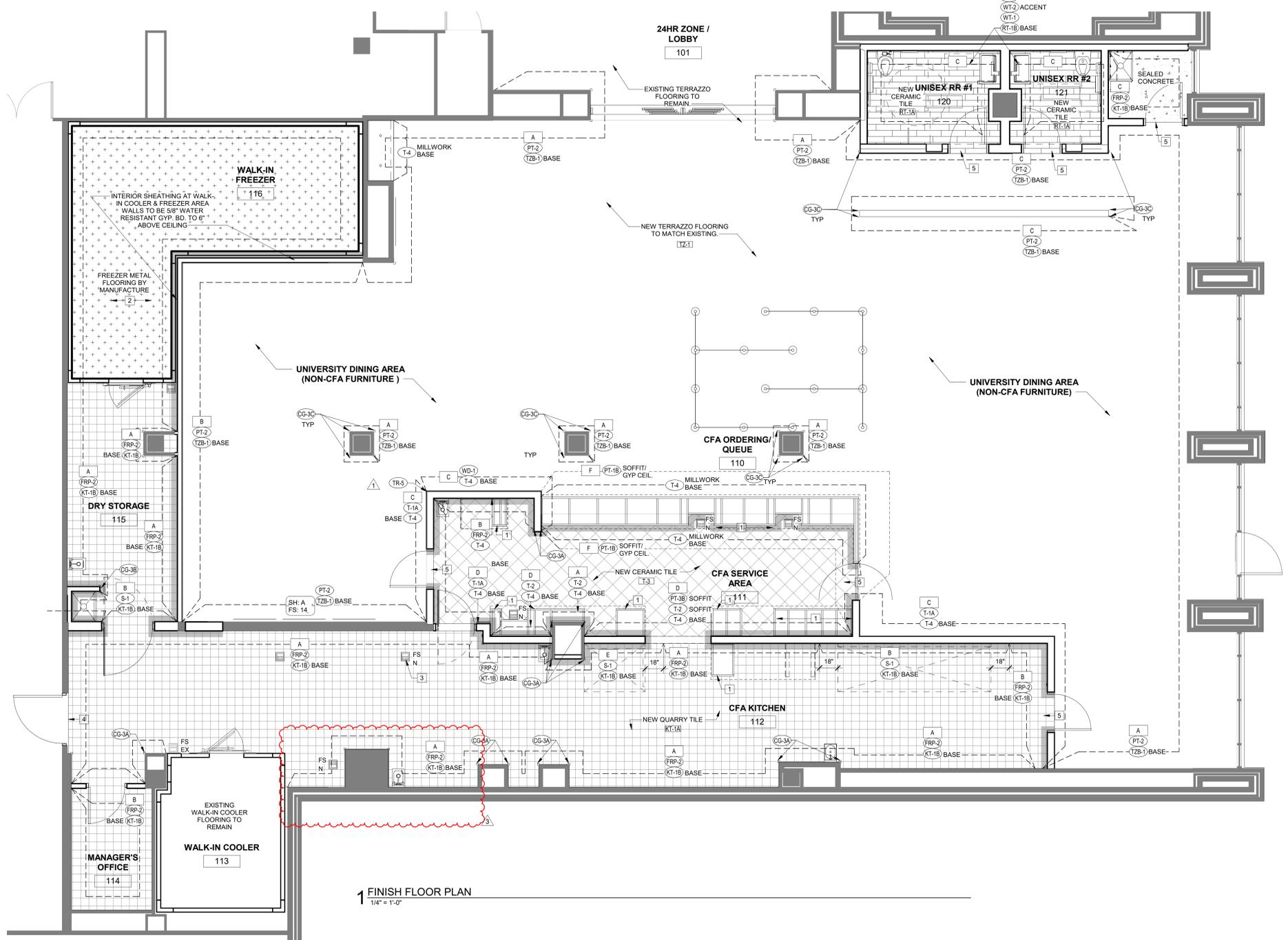
- SH : A SHEATHING TYPE
- FS : 1 FINISH SET

**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. 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



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**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

NO.	DATE	DESCRIPTION
1	04.28.2023	UNIT REVIEW REV
3	08.03.2023	Architecture Coordination REV

CONSULTANT PROJECT # 21136  
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**SHEET FINISH FLOOR PLAN**

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 8/3/2023 9:47:42 AM  
 80307-A-211-FINISH FLOOR PLAN

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



FINISH TYPE: CEILING ACT-1



FINISH TYPE: WALL/CEILING (PAINT) PT-1A



FINISH TYPE: WALL/CEILING (PAINT) PT-3B

02 FLOOR



FINISH TYPE: FLOOR KT-1A



FINISH TYPE: FLOOR T-3



FINISH TYPE: FLOOR VF-1



FINISH TYPE: FLOOR RT-1A

03 WALL BASE



FINISH TYPE: WALL BASE KT-1B



FINISH TYPE: WALL BASE T-4 (BASE)



FINISH TYPE: WALL BASE RT-1B

04 WALL



FINISH TYPE: WALL FRP-2



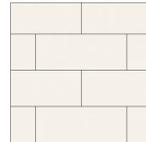
FINISH TYPE: WALL/CEILING (PAINT) PT-1A



FINISH TYPE: WALL/CEILING (PAINT) PT-3B



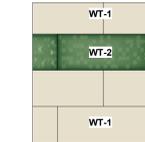
FINISH TYPE: WALL S-1



FINISH TYPE: WALL T-1A, T1-E



FINISH TYPE: WALL T-2



FINISH TYPE: WALL WT-1 & WT-2

05 TRIM



FINISH TYPE: TRIM CG-1A, CG-1B

06 MILLWORK



FINISH TYPE: MILLWORK PL-1



FINISH TYPE: MILLWORK PL-3



FINISH TYPE: MILLWORK S-2



FINISH TYPE: MILLWORK SS-1



FINISH TYPE: MILLWORK SS-4



FINISH TYPE: MILLWORK WD-1



FINISH TYPE: MILLWORK WD-3

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: BARE GYPSUM BOARD, PRIME COAT, DIRECTIONS. Includes instructions for sanding, priming, and painting various surfaces.

- 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. EXISTING CAULK THAT IS CRACKED OR DETERIORATED MUST BE REPLACED.

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 ALL COMPONENTS TO BE LABELED FOR FIRE RATED ASSEMBLY, LEVEL 5 FINISH, GYP BOARD CEILING.
5.2 GYPSUM & CEMENT WALLBOARD AS MFG. BY UNITED STATES GYPSUM, CHICAGO, IL. SEE SECTIONS AND DETAILS FOR SIZE SPECIFICATIONS.

Table with columns: DESCRIPTION, FLAME-SPREAD, CLASS, DESCRIPTION, FLAME-SPREAD, CLASS. Lists materials like Gypsum Wallboard, Paint, Decorative Laminate, Solid Surface, Fiberglass Panel, Resilient Sheet Flooring.

CAULKING GUIDELINES

Table with columns: MATERIAL, TO, MATERIAL, CAULK COLOR. Provides guidelines for caulking various materials like painted walls, millwork, and trim.



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1155 UNION CIRCLE
DENTON, TX 76203

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

Table with columns: NO., DATE, DESCRIPTION. Revision schedule showing one revision on 04.28.2023.

CONSTRUCTION DOCUMENTS
CONSULTANT PROJECT # 21136
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 80307-A-221-REFLECTED CEILING PLAN

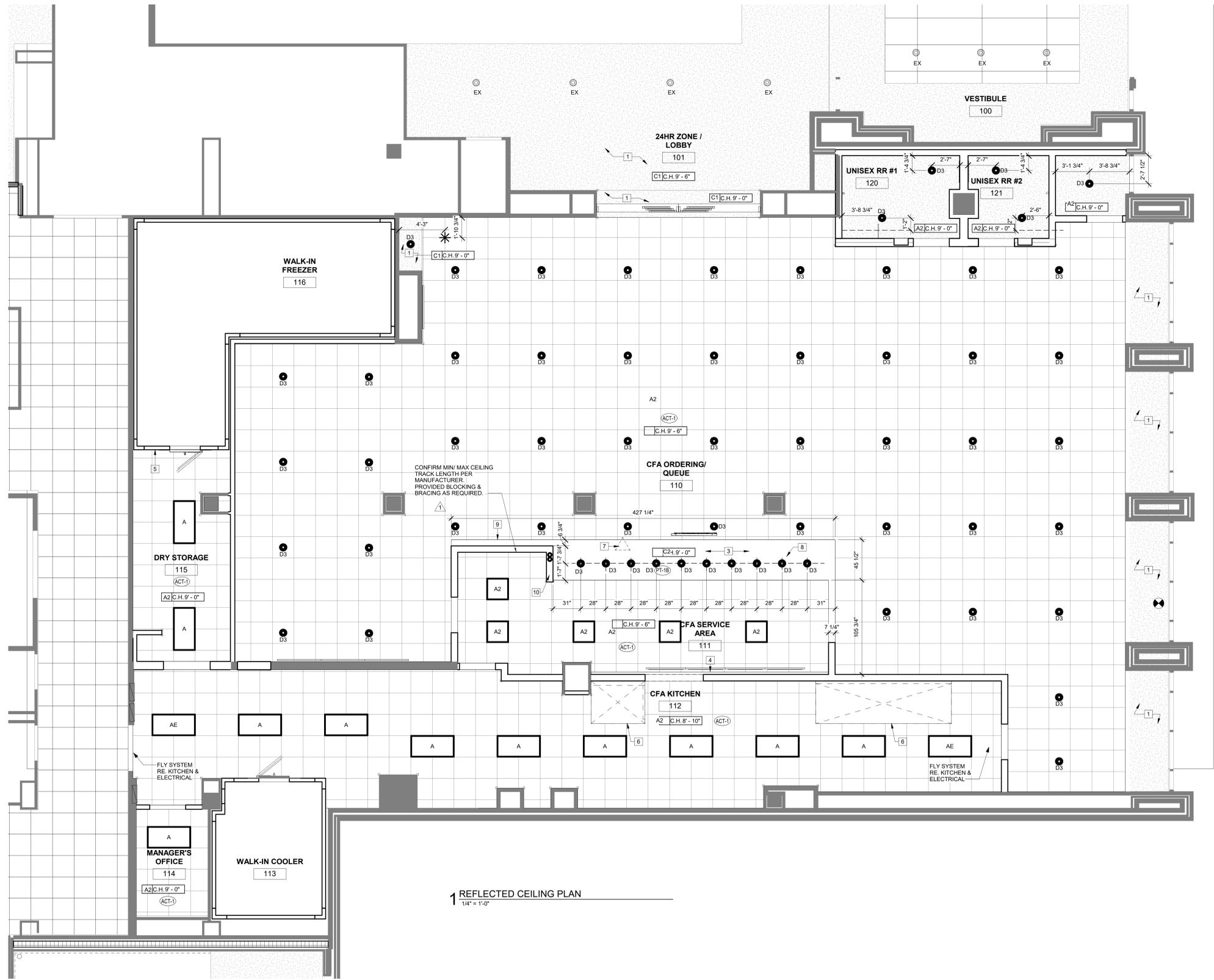
PROPRIETARY LIGHTING FIXTURE SCHEDULE									
TO BE PURCHASED THROUGH ACCUSERV OR VILLA LIGHTING									
TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	LAMP	WATTAGE	MOUNTING	COMMENTS	QTY.	
A	COOPER	24FP6440C	2'X4' LED FLAT PANEL RATED 6611 LUMENS, 4000K COLOR TEMP	LED	59 W	RECESSED		11	
A2	Cooper Lighting	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 CEILING AREAS 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 CEILING AREAS 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 PREFORMED BY SUB-CONTRACTORS APPROVED BY BASE BUILDING OWNER.
- PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
- SEE FPZ-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
6	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 FROM 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	CEILING HEIGHT
C2	10'-0"

Symbol	Description
[Grid Pattern]	CEILING TYPE A ACOUSTICAL LAY-IN CEILING GRID & TILE (ACT-1) REFER TO FINISH SCHEDULE
[Dotted Pattern]	CEILING TYPE C GYPSUM BOARD CEILING, PAINTED PER KEY NOTES REFER TO FINISH SCHEDULE
[Horizontal Lines]	OAK WOOD SOFFIT (WD-1); REFER TO FINISH SCHEDULE
[A1 or A1E]	LIGHT FIXTURE - UNDERCABINET 2X4; REFER TO PROPRIETARY LIGHTING SCHEDULE AND ELECTRICAL
[A2]	LIGHT FIXTURE - UNDERCABINET 2X2; 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
[Star]	EXIT LIGHTING; REFER TO ELECTRICAL
[Star]	CEILING GRID STARTING POINT; IF NOT DESIGNATED, GRID IS TO BE CENTERED IN SPACE

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

CONSTRUCTION DOCUMENTS

**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

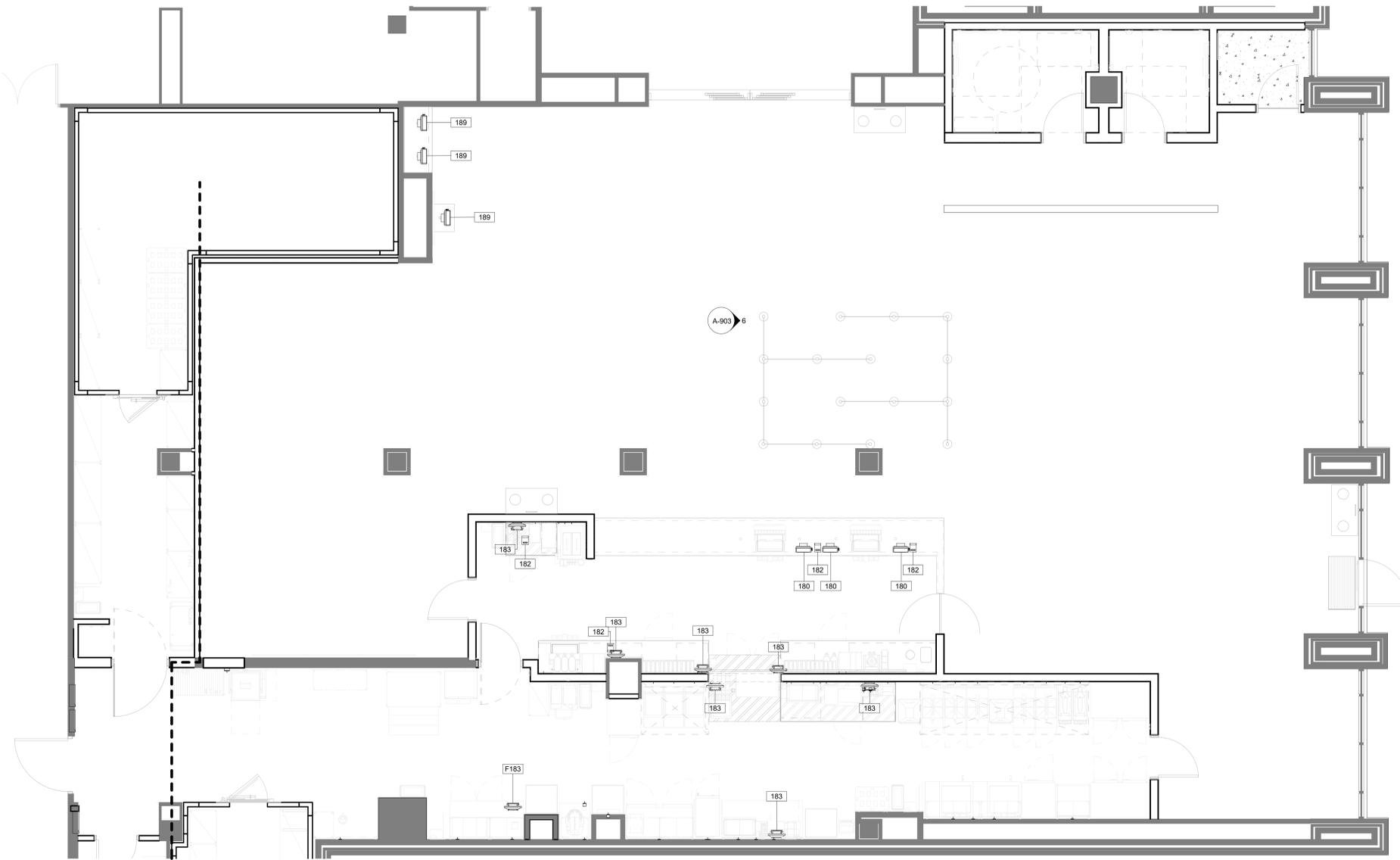
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NO.	DATE	DESCRIPTION
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 SHEET REFLECTED CEILING PLAN  
 SHEET NUMBER **A-221**

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

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SHEET POS HARDWARE TECHNOLOGY PLAN & SCHEDULE  
SHEET NUMBER

**A-501**

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80307-A-501-POS-HARDWARE-TECHNOLOGY PLAN & SCHEDULE

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**REVISION SCHEDULE**

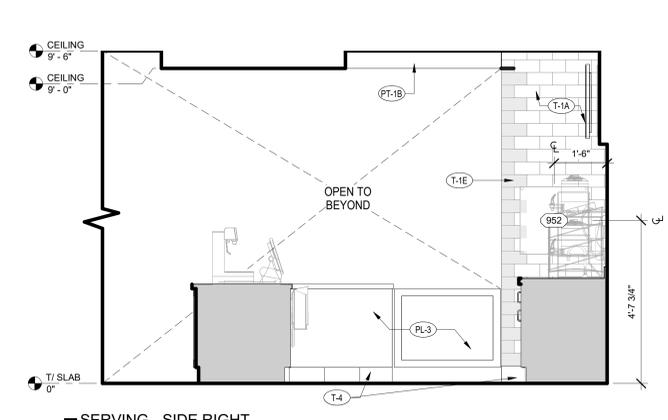
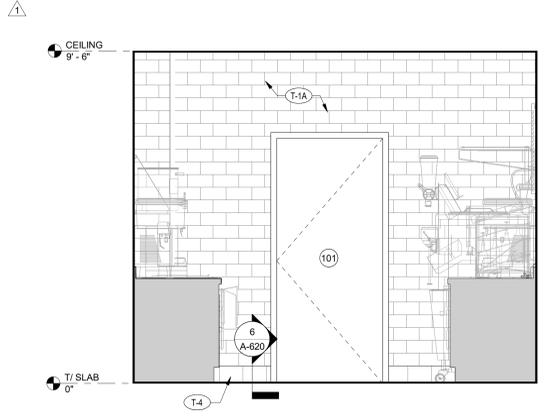
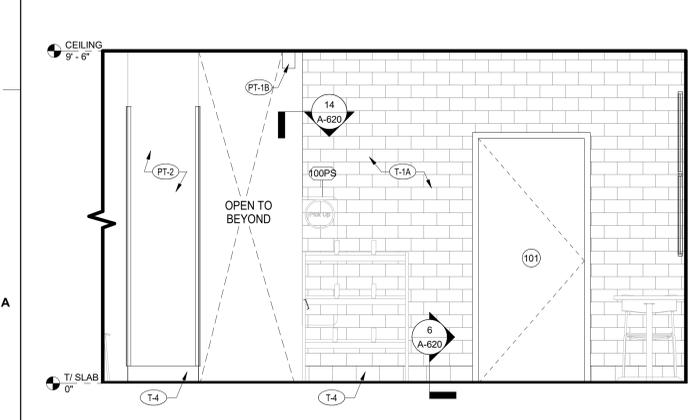
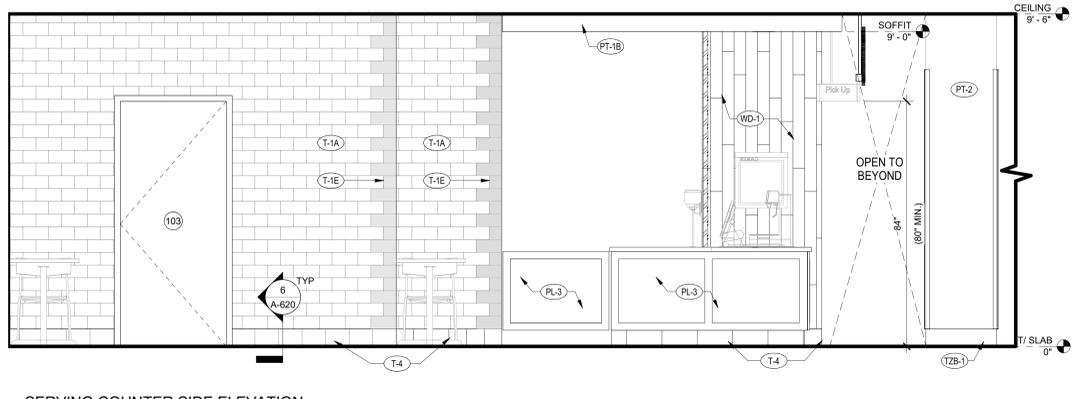
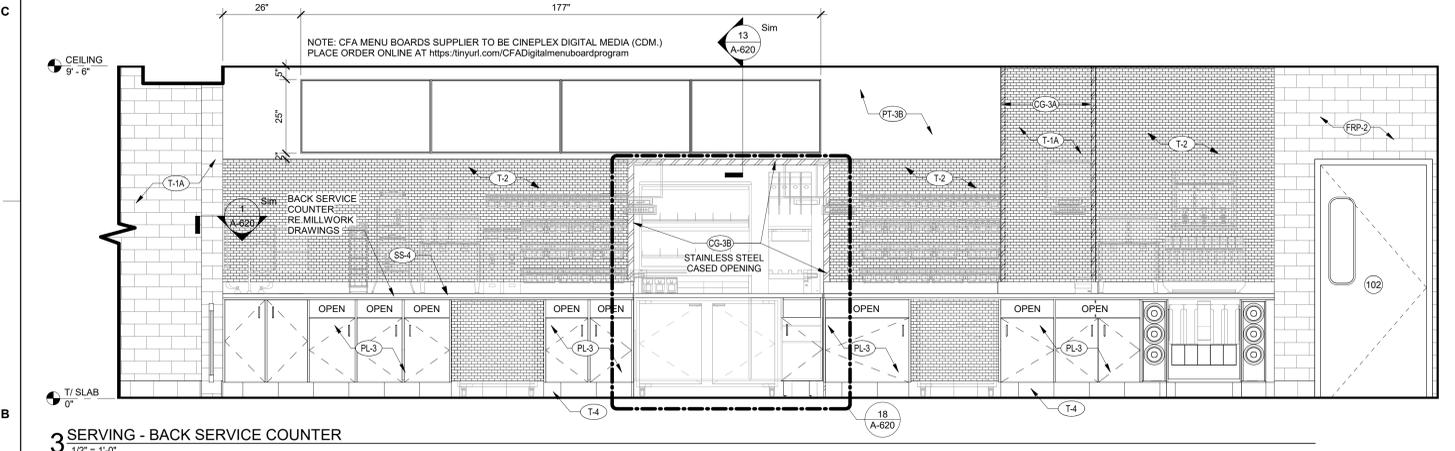
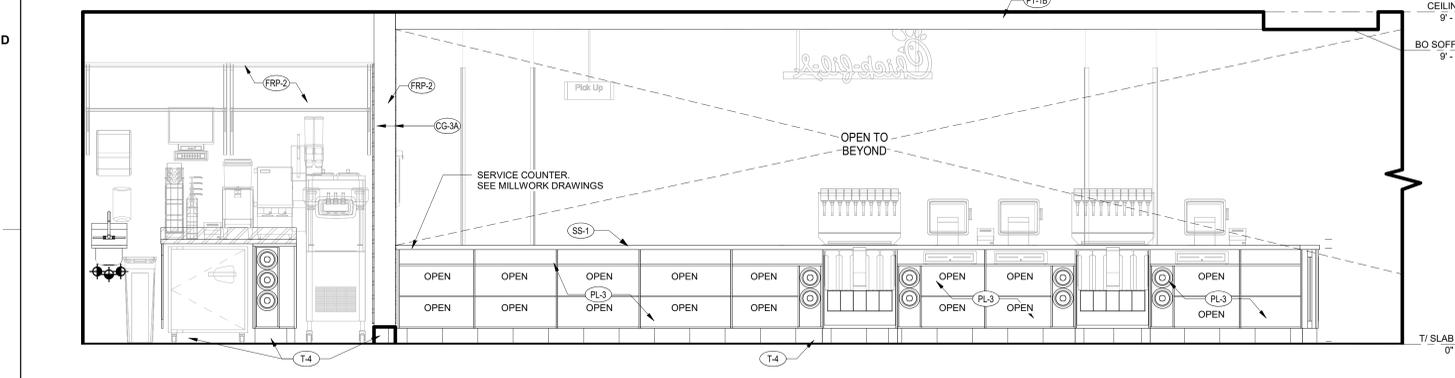
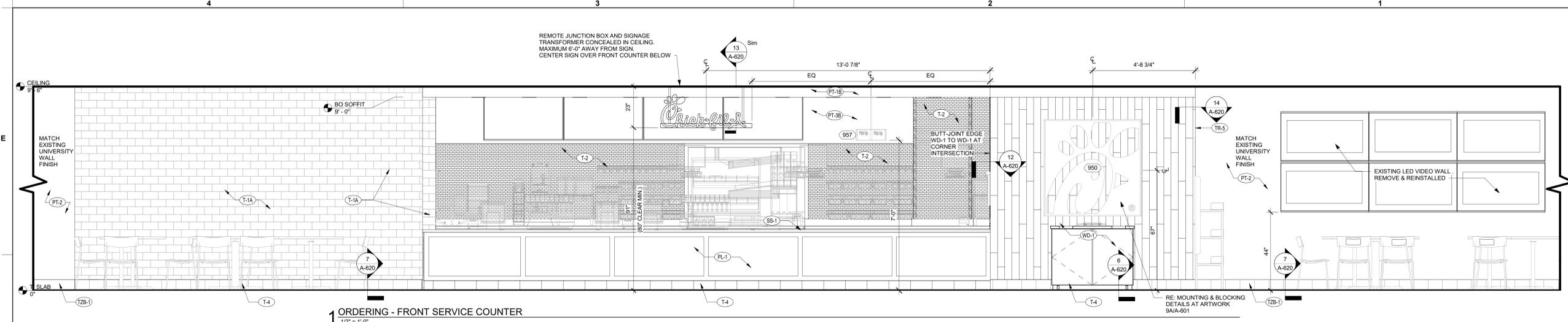
NO.	DATE	DESCRIPTION	UNIT REVIEW	REV
1	04.28.2023	CONSTRUCTION DOCUMENTS		

CONSULTANT PROJECT # 21136  
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SHEET INTERIOR ELEVATIONS  
SHEET NUMBER

**A-601**

REMOTE JUNCTION BOX AND SIGNAGE  
TRANSFORMER CONCEALED IN CEILING.  
MAXIMUM 6'-0" AWAY FROM SIGN  
CENTER SIGN OVER FRONT COUNTER BELOW



BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT80307\_University of North Texas\_RELOCATION\_ARC.rvt  
8/3/2023 9:48:33 AM  
80307-A-601-INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS





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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
3	08.03.2023	Architecture Coordination REV

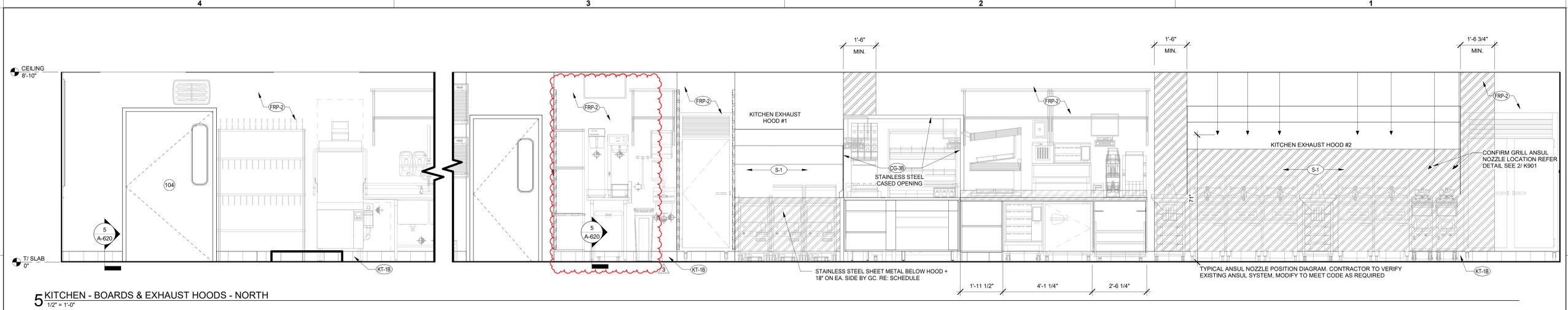
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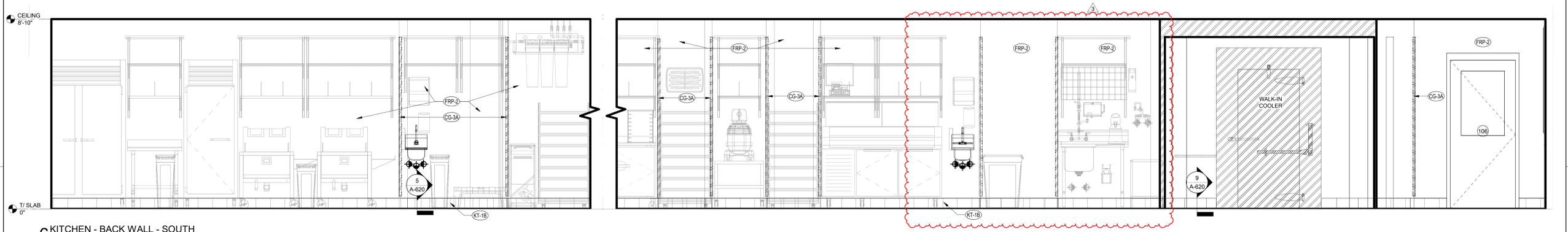
SHEET INTERIOR ELEVATIONS

SHEET NUMBER

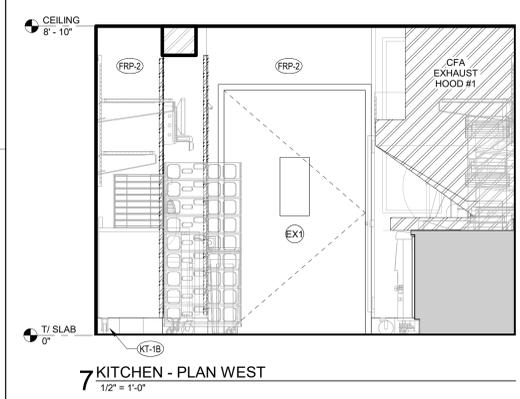
A-602



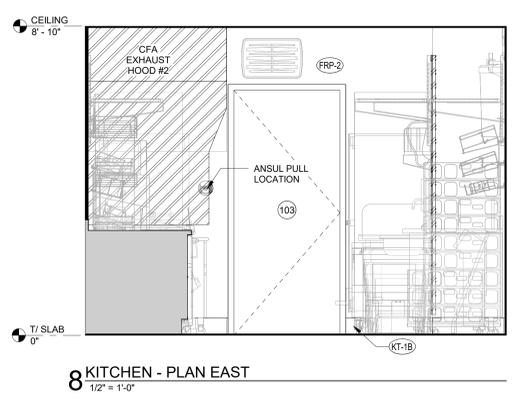
5 KITCHEN - BOARDS & EXHAUST HOODS - NORTH  
1/2" = 1'-0"



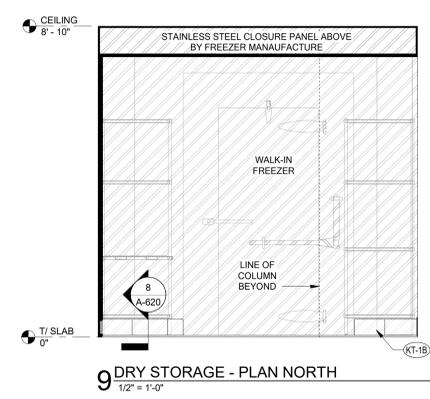
6 KITCHEN - BACK WALL - SOUTH  
1/2" = 1'-0"



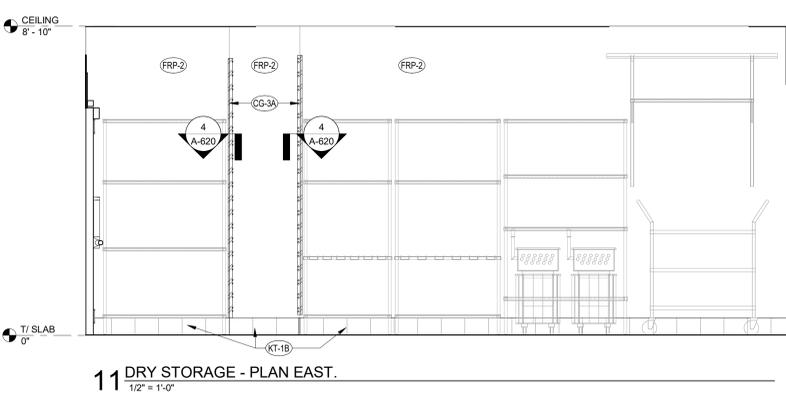
7 KITCHEN - PLAN WEST  
1/2" = 1'-0"



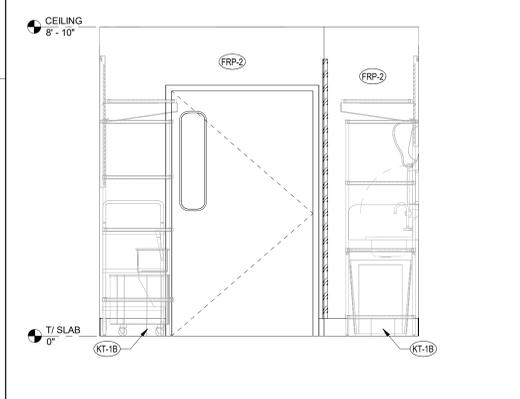
8 KITCHEN - PLAN EAST  
1/2" = 1'-0"



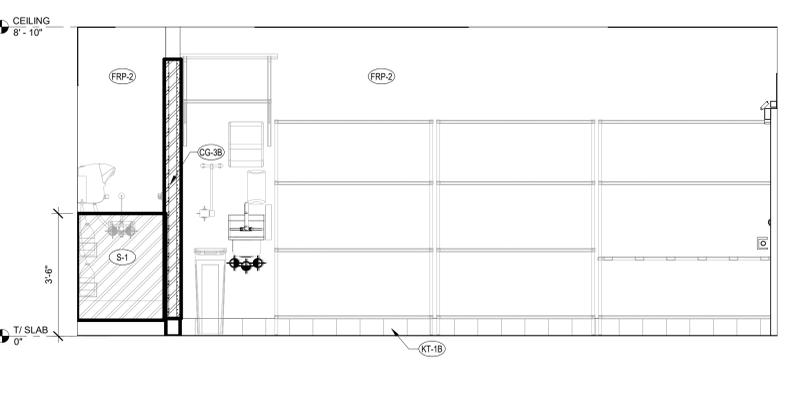
9 DRY STORAGE - PLAN NORTH  
1/2" = 1'-0"



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



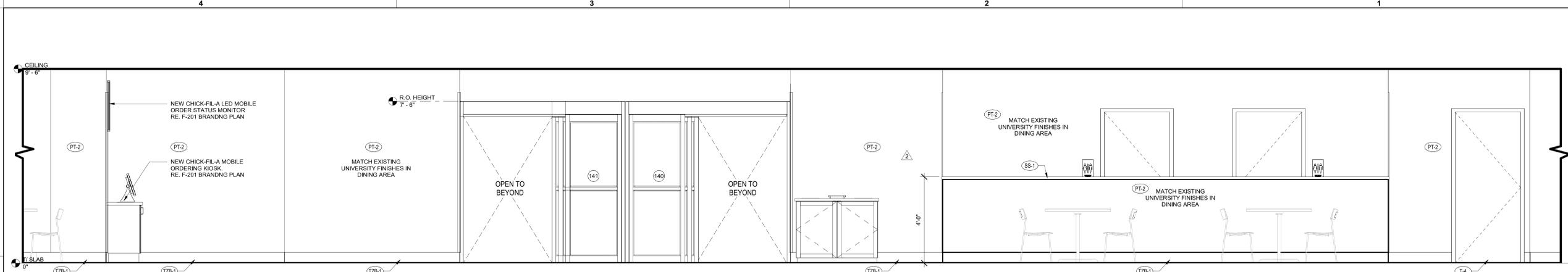
10 DRY STORAGE - PLAN SOUTH  
1/2" = 1'-0"



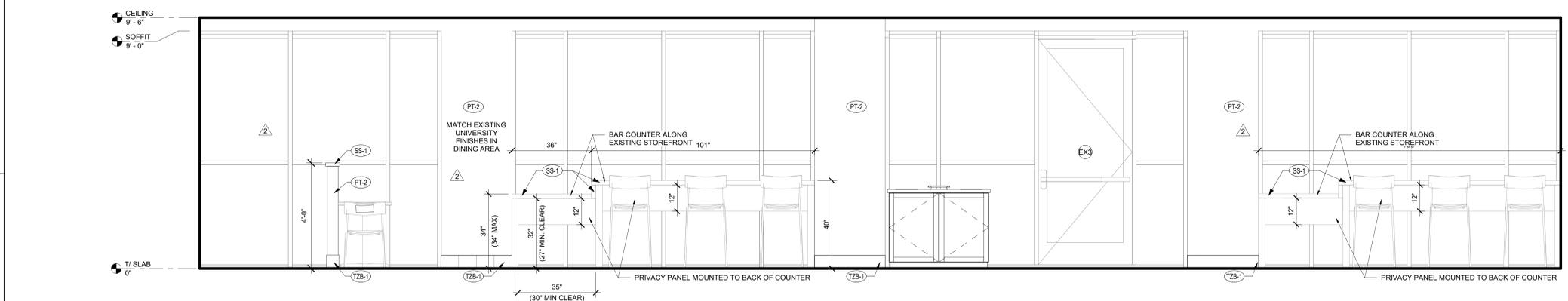
12 DRY STORAGE - PLAN WEST  
1/2" = 1'-0"

BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT80307\_University of North Texas\_RELOCATION\_ARC.rvt  
8/3/2023 9:48:53 AM  
80307-A-602-INTERIOR ELEVATIONS

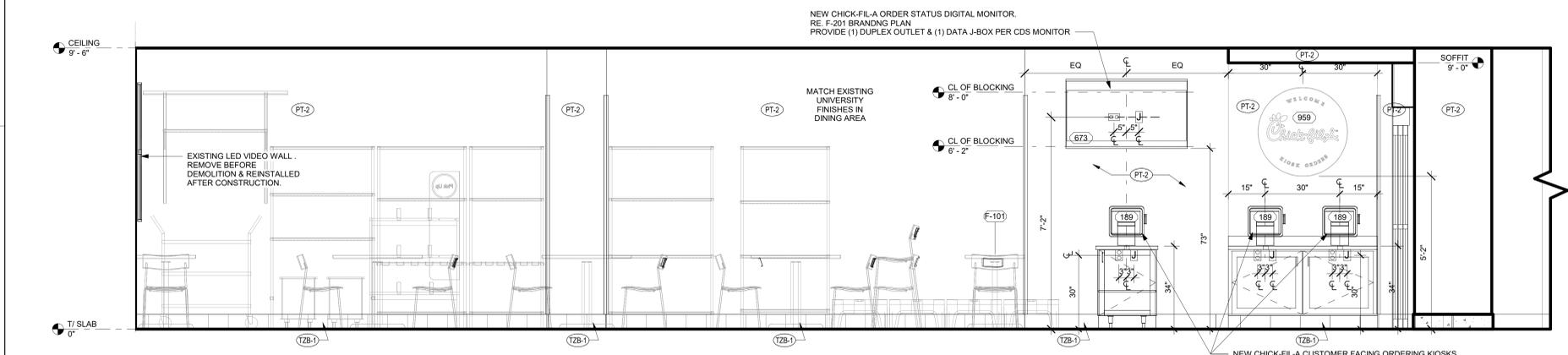
CONSTRUCTION DOCUMENTS



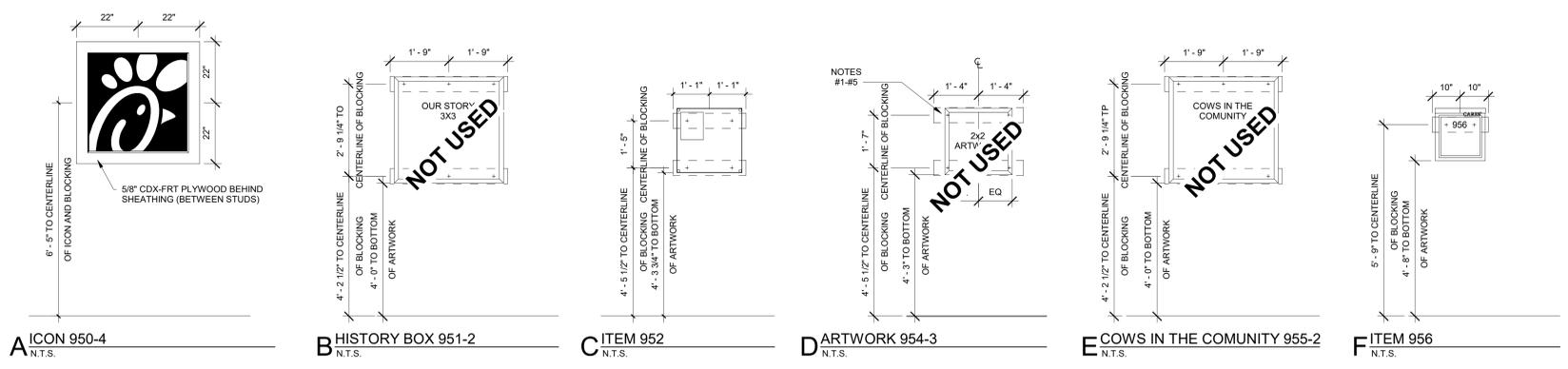
1 UNIVERSITY DINING / MAIN ENTRANCE - NORTH  
 1/2" = 1'-0"



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



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



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

NOTES #1-#5:  
 1. 1'-7" OF BLOCKING CENTERLINE OF BLOCKING 4'-3" TO BOTTOM OF ARTWORK  
 2. 1'-4" OF BLOCKING CENTERLINE OF BLOCKING 4'-3" TO BOTTOM OF ARTWORK  
 3. 1'-7" OF BLOCKING CENTERLINE OF BLOCKING 4'-3" TO BOTTOM OF ARTWORK  
 4. 1'-7" OF BLOCKING CENTERLINE OF BLOCKING 4'-3" TO BOTTOM OF ARTWORK  
 5. 1'-7" OF BLOCKING CENTERLINE OF BLOCKING 4'-3" TO BOTTOM OF ARTWORK

MOUNTING AND BLOCKING DETAILS AT ARTWORK



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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

NO.	DATE	DESCRIPTION
2	06.02.2023	UNT REVIEW REV-2

CONSTRUCTION DOCUMENTS

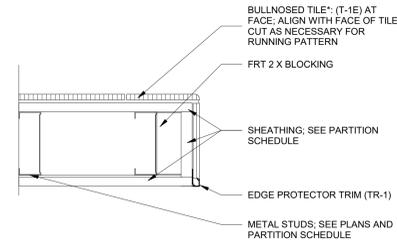
CONSULTANT PROJECT # 21136  
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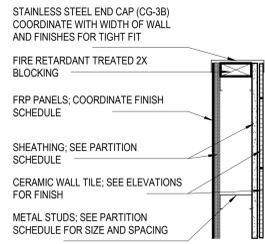
SHEET INTERIOR ELEVATIONS  
 SHEET NUMBER

A-603

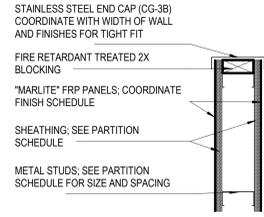
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8/3/2023 9:49:00 AM  
80307-A-620-INTERIOR DETAILS



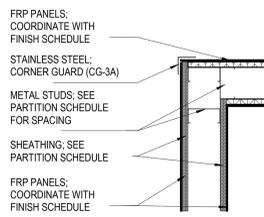
1 DETAIL: (T-1E) TILE AT WALL END/ POCKET DOOR  
3' = 1'-0"



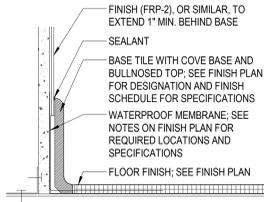
2 DETAIL: (CG-3B) AT TILE  
1 1/2' = 1'-0"



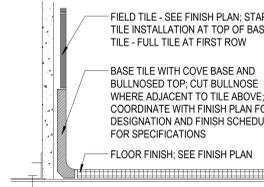
3 DETAIL: (CG-3B) AT FRP  
1 1/2' = 1'-0"



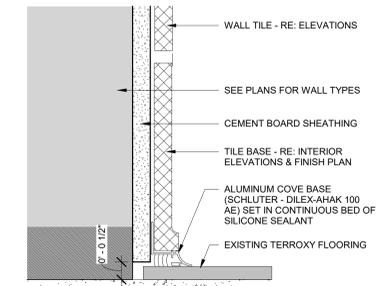
4 DETAIL: (CG-3A) CORNER GUARD  
1 1/2' = 1'-0"



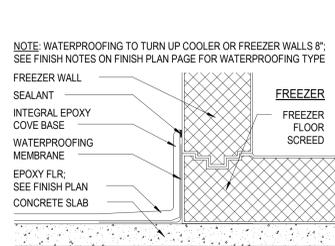
5 DETAIL: BASE TILE AT FRP  
3' = 1'-0"



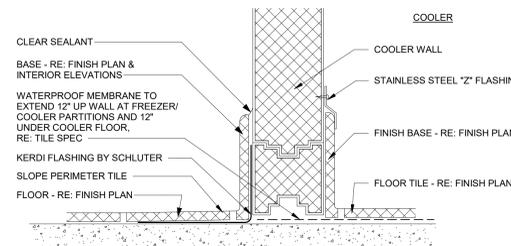
6 DETAIL: BASE TILE AT TILE  
3' = 1'-0"



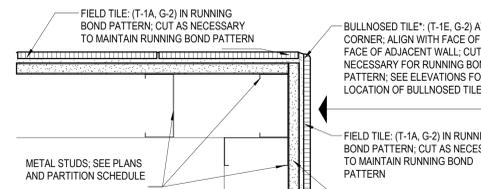
7 DETAIL: BASE TILE AT TILE W/ TERRAZZO  
6' = 1'-0"



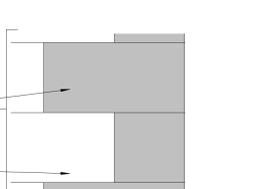
8 DETAIL: BASE TILE AT FREEZER  
3' = 1'-0"



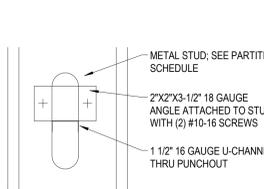
9 DETAIL: BASE TILE AT COOLER  
3' = 1'-0"



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

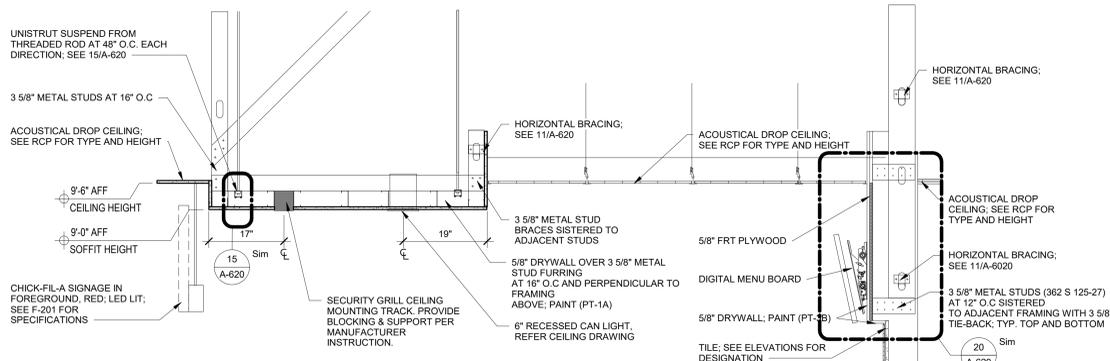


11 DETAIL: BRIDGING  
3' = 1'-0"

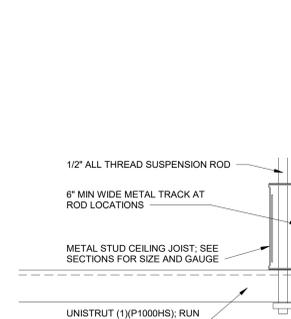


12 DETAIL: WOOD CORNER @ BUTT JOINT  
3' = 1'-0"

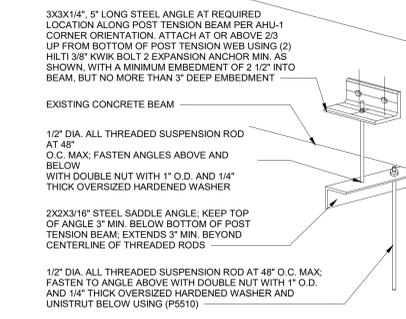
NOTE: PROVIDE TRACK (SIZED TO MATCH STUDS) AT CONNECTIONS TO KICKERS AND CROSS BRACING AS NEEDED. TYPICAL ALL.



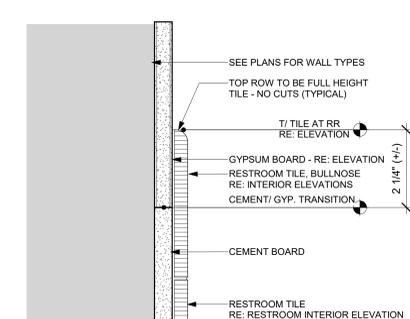
13 DETAIL: SOFFIT AND SUSPENDED CEILING AT SERVICE  
3/4' = 1'-0"



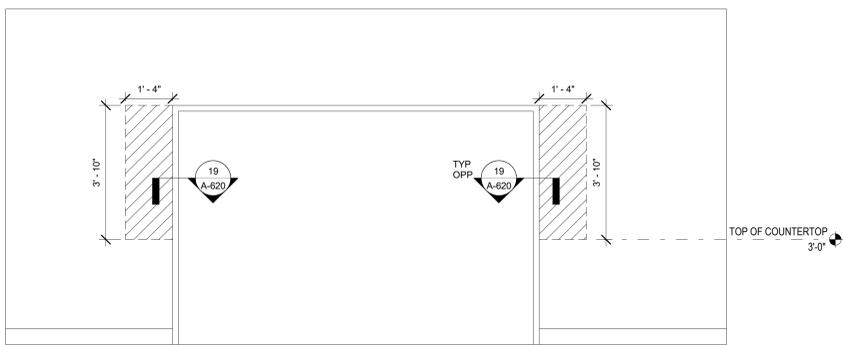
15 DETAIL: SOFFIT AND SUSPENDED CEILING ROD END  
3' = 1'-0"



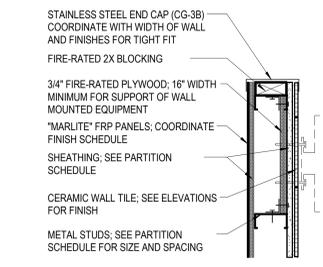
16 DETAIL: CONCRETE "T" SUSPENSION FROM STRUCTURE  
1 1/2' = 1'-0"



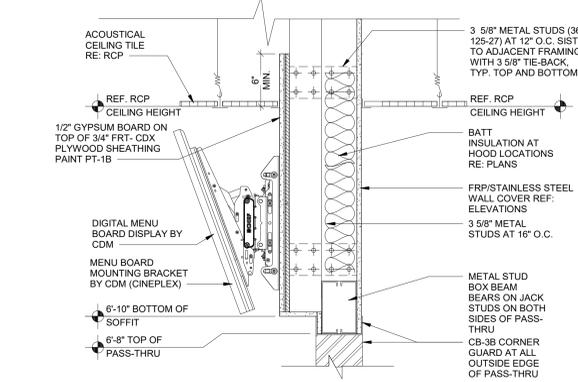
17 DETAIL: WALL TILE TRANSITION @ RESTROOM  
6' = 1'-0"



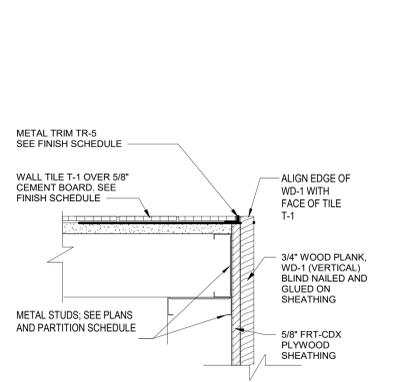
18 A-621 - BLOCKING AT PASS-THRU  
1/2' = 1'-0"



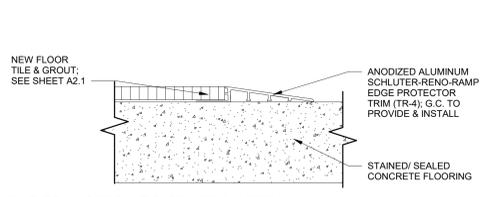
19 DETAIL: TYP. PASS-THRU OPENING  
1 1/2' = 1'-0"



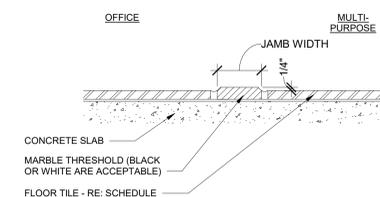
20 DETAIL: MENU BOARD SOFFIT  
1 1/2' = 1'-0"



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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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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SHEET INTERIOR DETAILS

SHEET NUMBER

A-620

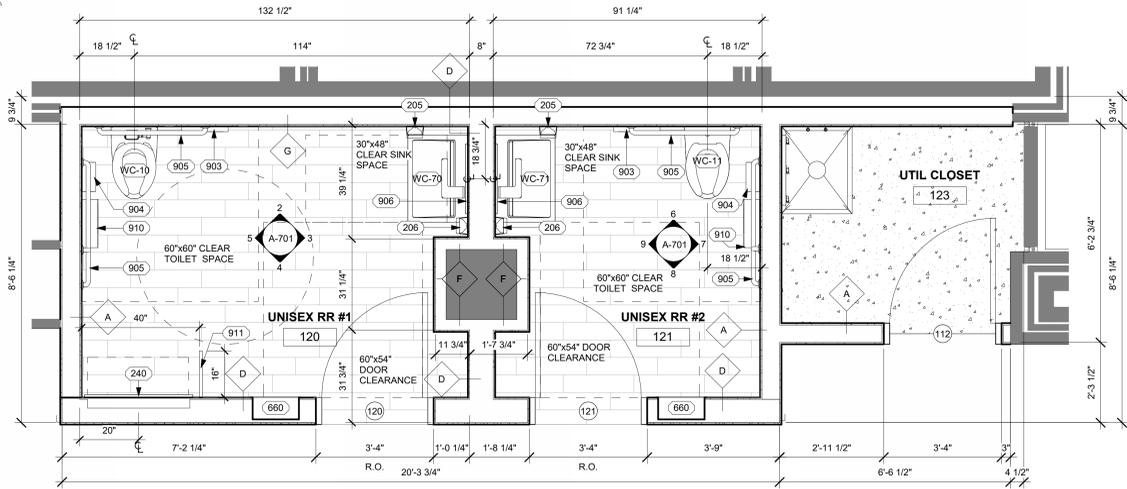
CONSTRUCTION DOCUMENTS

**GENERAL RESTROOM NOTES**

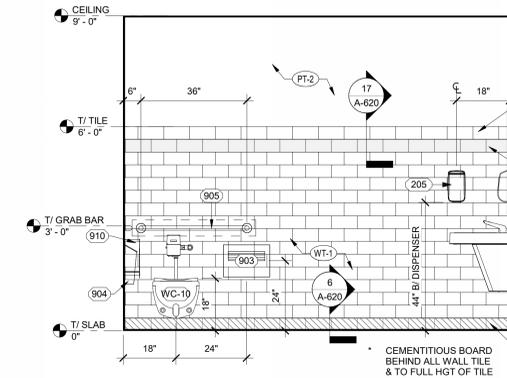
- ALL UNDER COUNTER PIPING TO BE PROTECTED FROM CONTACT. PROVIDE AND INSTALL INSULATION AT HOT WATER SUPPLY AND DRAIN PIPES. ENSURE THAT ALL OTHER SHARP OR ABRASIVE SURFACES ARE PROPERLY COVERED OR MADE SMOOTH.
- CEMENTITIOUS BOARD BEHIND ALL WALL TILE & TO FULL HEIGHT OF TILE. BABY CHANGING STATION - 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**

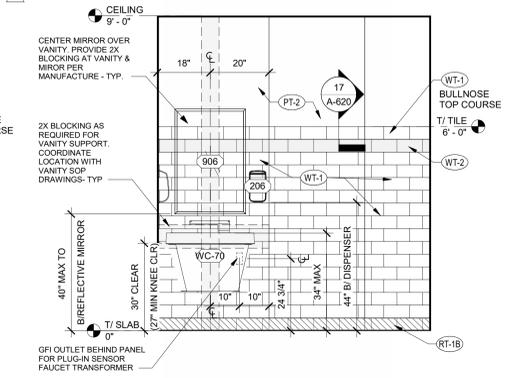
DESCRIPTION	QTY	MANUFR	FURNISHED BY	INSTALLED BY	MODEL #
205 HAND SANITIZER	2	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92021189
206 SOAP DISPENSER	2	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92021189
240 BABY CHANGING STATION (RECESSED)	1	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	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	6140
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	R3000TBK
911 RESTROOM PARTITION, WALL-HUNG SCREEN, 16"x48"	1	Bradley Corporation	GENERAL CONTRACTOR	GENERAL CONTRACTOR	STAINLESS STEEL



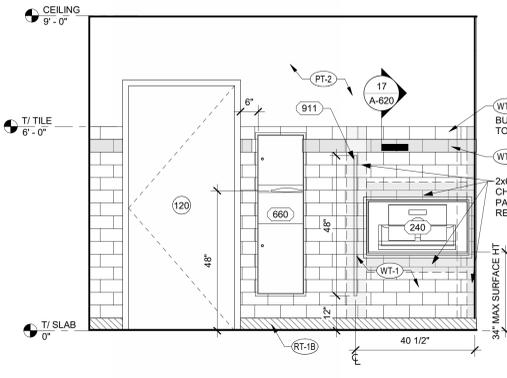
**1 ENLARGED RESTROOM PLAN**  
1/2" = 1'-0"



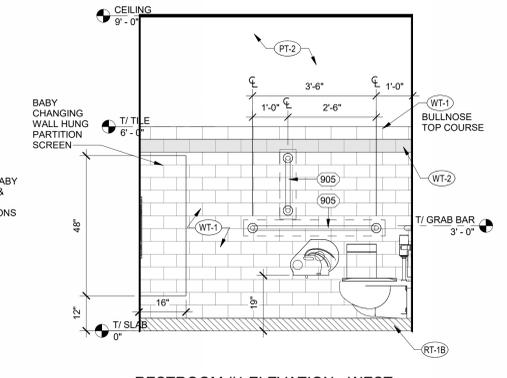
**2 RESTROOM #1 ELEVATION - NORTH**  
1/2" = 1'-0"



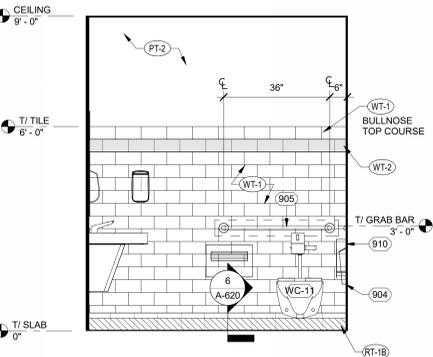
**3 RESTROOM #1 ELEVATION - EAST**  
1/2" = 1'-0"



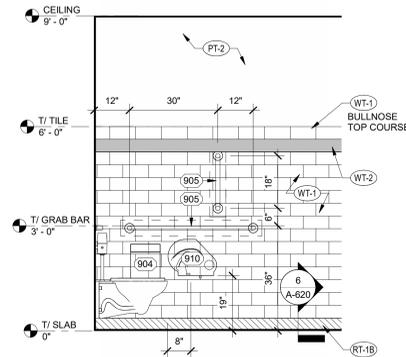
**4 RESTROOM #1 ELEVATION - SOUTH**  
1/2" = 1'-0"



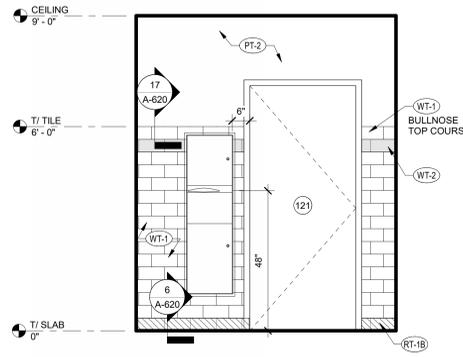
**5 RESTROOM #1 ELEVATION - WEST**  
1/2" = 1'-0"



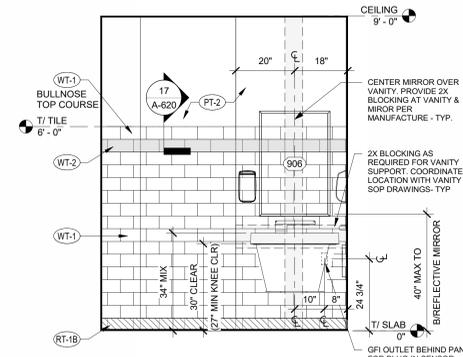
**6 RESTROOM #2 ELEVATION - NORTH**  
1/2" = 1'-0"



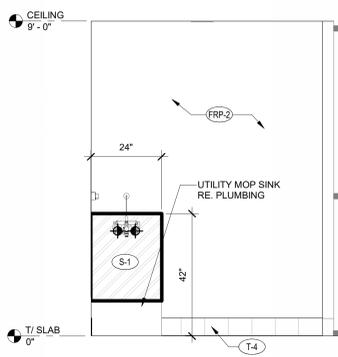
**7 RESTROOM #2 ELEVATION - EAST**  
1/2" = 1'-0"



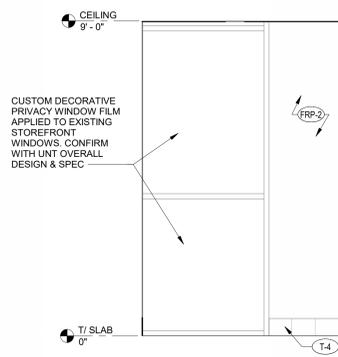
**8 RESTROOM #2 ELEVATION - SOUTH**  
1/2" = 1'-0"



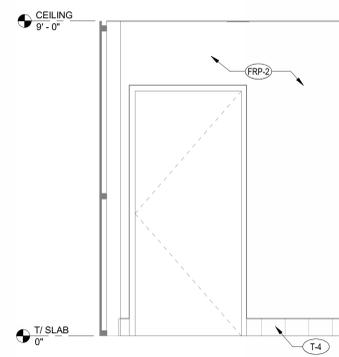
**9 RESTROOM #2 ELEVATION - WEST**  
1/2" = 1'-0"



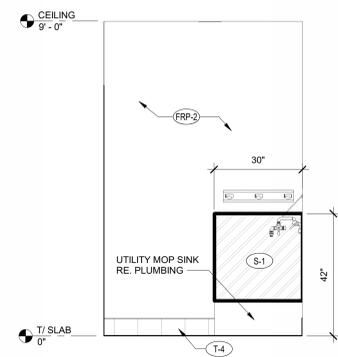
**10 UTIL CLOSET ELEVATION - NORTH**  
1/2" = 1'-0"



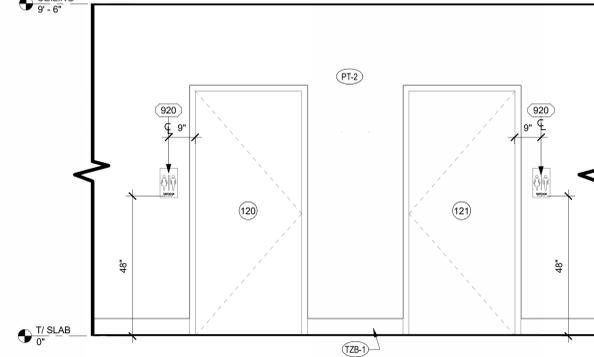
**11 UTIL CLOSET ELEVATION - EAST**  
1/2" = 1'-0"



**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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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	9:49:11 AM

**CONSTRUCTION DOCUMENTS**

CONSULTANT PROJECT # 21136  
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**RESTROOM PLAN & ELEVATIONS**

SHEET NUMBER  
**A-701**

BIM:360/ITX\_80307\_University of North Texas\_2021.12\_SAT80307\_University of North Texas\_RELOCATION\_ARC.rvt  
8/3/2023 9:49:11 AM  
80307-A-701-RESTROOM PLAN & ELEVATIONS

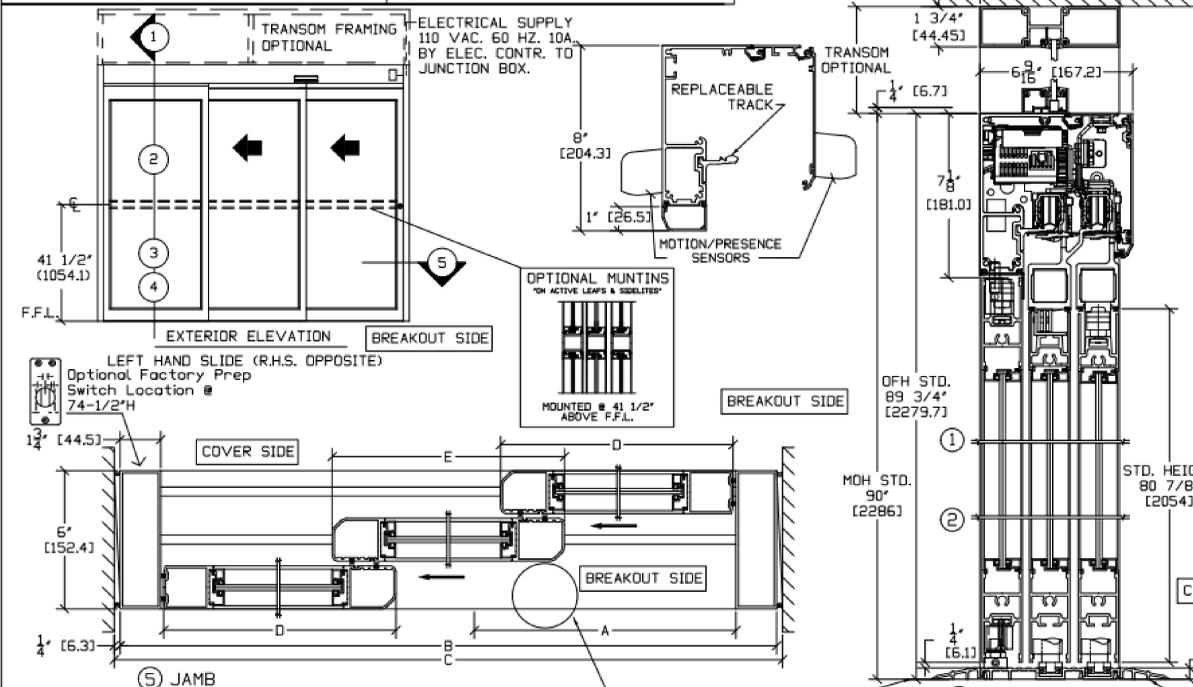
NOTE: THE STANDARD PACKAGE CONSISTS OF:  
THE AUTOMATIC OPERATOR & WEATHERSTRIP, FRAMES, DOORS & SIDELITES WITH VERTICAL WEATHERSTRIP, EMERGENCY BREAKAWAY, 2-POINT LOCK, OPTIONAL POSITION SWITCHES (DIGITAL C3 OR S3) OR KEY (S3), (OFF-EXIT ONLY-AUTO-REDUCED OPENING-HOLD OPEN OR OFF, AUTO, HOLD OPEN), MOTION/PRESENCE SENSORS.

STANDARD FINISH: CLEAR- AA-M12C22A41, CLASS 1, .010 MM. DARK BRONZE- AA-M12C22A44, CLASS 1, .010 MM. SPECIAL FINISHES ARE AVAILABLE.

THIS PACKAGE WILL ACCEPT UP TO 1/4" (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 AIA) BUILDING CODE FOR MIN DOOR HEIGHT & MIN/MAX WIDTH ALLOWABLE FOR EGRESS REQUIREMENT IN CONJUNCTION WITH TABLE BELOW.



⑤ JAMB

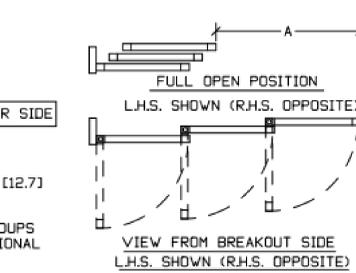
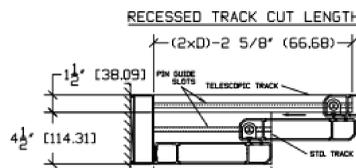
SL500 OHC	DOOR OPENING A	OVERALL FRAME WIDTH B	MASONRY OPENING WIDTH C	ACTIVE & SIDELITE LEAF WIDTH D & E
6'	36 7/16" (925.5)	73" (1828.8)	72 1/2" (1841.5)	34 9/16" (872.3)
7'	44 7/16" (1129.7)	84" (2133.6)	84 1/2" (2146.3)	28 9/16" (725.3)
8'	52 7/16" (1331.5)	96" (2438.4)	96 1/2" (2451.1)	32 9/16" (827.1)
9'	60 7/16" (1533.3)	108" (2740.2)	108 1/2" (2752.9)	36 9/16" (928.7)
10'	68 7/16" (1735.1)	120" (3042)	120 1/2" (3054.7)	40 9/16" (1030.3)
11'	76 7/16" (1936.9)	132" (3343.8)	132 1/2" (3356.5)	44 9/16" (1131.9)
12'	84 7/16" (2138.7)	144" (3644.8)	144 1/2" (3657.5)	48 9/16" (1233.5)
KEY	(26/3)-11 9/16" (C-12.7)	(11/2)-11 9/16" (C-12.7)	(81/2)" (B-12.7)	(8/3)-9 1/16" (B-23.14.3)

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
	(8/3)-4 1/4" (B-3)-(107.95)	OFH-15 7/8" (B-3)-(403.2)
	(8/3)-4 3/8" (B-3)-(111.13)	OFH-(403.2)

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



ASSA ABLOY

NO.	REV.	DATE	BY	SS	DATE	REV.	DATE
1010834	CLW	6/4/13		SS	6/4/13	5.0	01/18/22

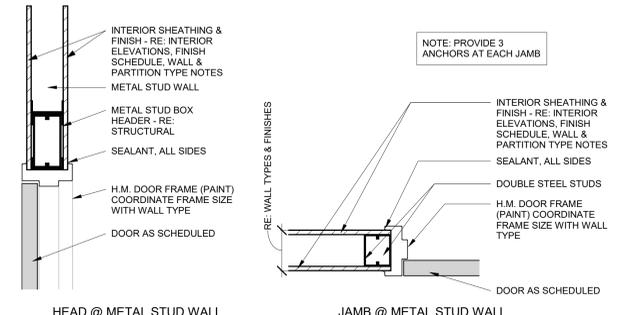
**A-801 - DOOR SCHEDULE**

DOOR NO.	Item	WIDTH	HEIGHT	DOOR			FRAME			REMARKS	
				MATERIAL	FINISH	HDW	MATERIAL	SIZE	FINISH		
101	SERVICE	3'-0"	7'-0"	A	HOLLOW METAL	PT-1B	#1	HOLLOW METAL	7 1/4" THROAT	PT-1B	KICKPLATE CENTERED ON DOOR (BOTH SIDES)
102	KITCHEN #1	3'-0"	7'-0"	C	STAINLESS STEEL W/ GLASS	BRUSHED STAINLESS STEEL	#3	STAINLESS STEEL	7 1/4" THROAT	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	7 1/4" THROAT	PT-1B	KICKPLATE CENTERED ON DOOR (BOTH SIDES)
104	DRY STORAGE	4'-0"	7'-0"	C	STAINLESS STEEL W/ GLASS	BRUSHED STAINLESS STEEL	#3	STAINLESS STEEL	9 1/4" THROAT	PRE-FINISHED BRUSHED STAINLESS STEEL	
106	OFFICE	3'-0"	7'-0"	D	HOLLOW METAL	PT-4	#2	HOLLOW METAL	7 1/4" THROAT	PT-4	GL-4: TEMPERED GLASS. (CONFIRM WITH UNIT 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	7 1/4" THROAT	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	7 1/4" THROAT	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	7 1/4" THROAT	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"	PRE-FINISHED ALLOY	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"	PRE-FINISHED ALLOY	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. 9.1/2.1)
- 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 LICENSEE OPERATIONS AND LOCAL JURISDICTION HAVING AUTHORITY.
- SANITGRASP CONTACT: MATTHEW FULKERSON @ 404-898-5961
- 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

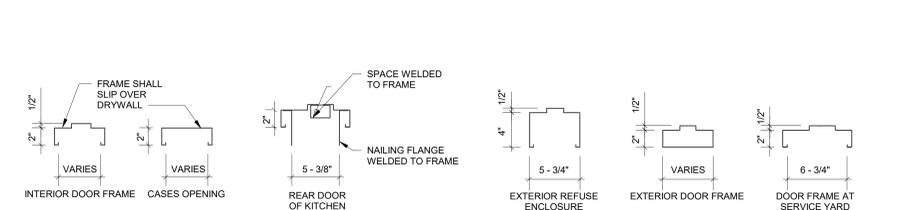
**HARDWARE SCHEDULE**

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" RH (PANIC EXIT BAR & KEY LOCK LEVER)
	3	SILENCERS	BUILDERS BRASSWORKS	W07
	2	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
	1	DOOR CLOSER	LCN CLOSERS	4111N EDA X ALUM X TB X LH" OR RH"
#2	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
	1	DOOR CLOSER	LCN CLOSERS	4111N EDA X ALUM X TB X H" OR RH"
	3	SILENCERS	BUILDERS BRASSWORKS	W07
	1	ARMOR PLATE	BUILDERS BRASSWORKS	34" X 8" KICKPLATE
#3	1	KICKDOWN HOLDER	NONE	FRICITION HOLD OPEN
	1 SET	HINGES DOUBLE ACTING	ELIASON	BY MANUFACTURER
	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
#4	2	HANDLES	HAGER	3E X US32D
	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
#5	1	DOOR CLOSER	LCN CLOSERS	4111N EDAXALUMXTBXLH" OR 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
	1	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
#6	1	DOOR CLOSER	SARGENT	(NSWING: 351H) (OUTSWING: 351 CPHS)
	1	WALL STOP	ROCKWOOD	403 US26D
	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	608
#7	1	ARMOR PLATE	BUILDERS BRASSWORKS	34"X8" KICKPLATE
	1	DOOR CLOSER	LCN CLOSERS	4111N EDAXALUMXTBXLH" OR RH"
	1	DOOR OPERATOR	NORTON	NORTON 6000 LOW ENERGY DOOR OPERATOR WITH A NORTON 700 WAVE-TO-OPEN SWITCH
	1	ELECTRIC STRIKE	HES	1600 SERIES
	1	DOOR CLOSER	LCN CLOSERS	4111N EDAXALUMXTBXLH" OR RH"



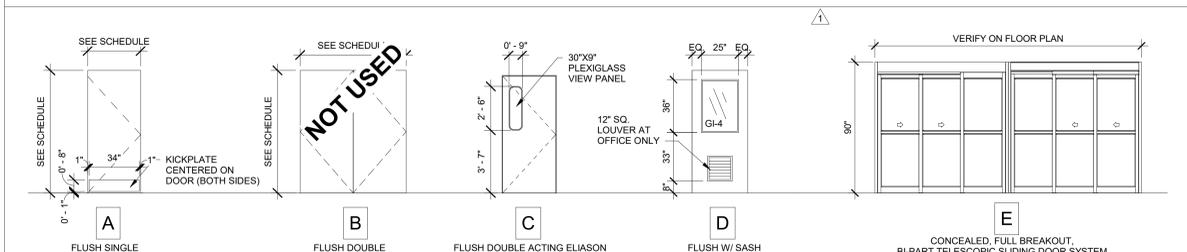
NOTE: REFER TO WALL TYPES FOR WALL THICKNESS, INTERIOR ELEVATIONS AND FINISH PLAN FOR WALL FINISHES, AND DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

**A-621 INTERIOR HOLLOW METAL FRAME HEADS & JAMBS**



**HOLLOW METAL FRAME PROFILES**

**DOOR TYPE ELEVATIONS**



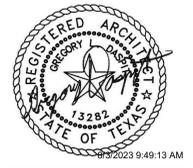
**CONCEALED, FULL BREAKOUT, BI-PART TELESCOPIC SLIDING DOOR SYSTEM**



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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
1	04.28.2023	UNT REVIEW REV

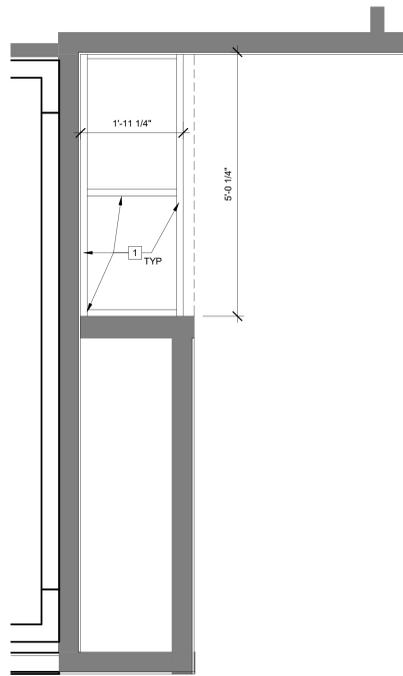
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**A-801**

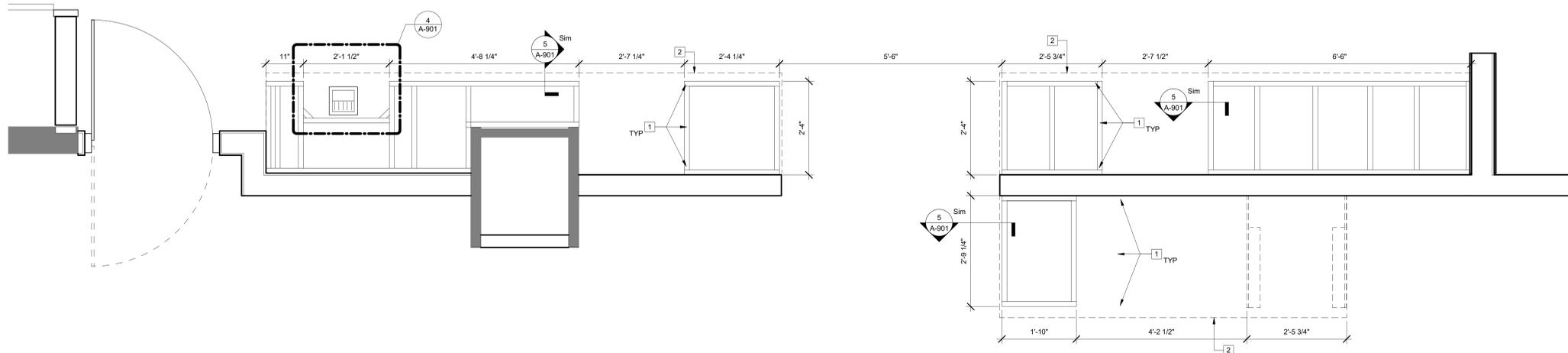
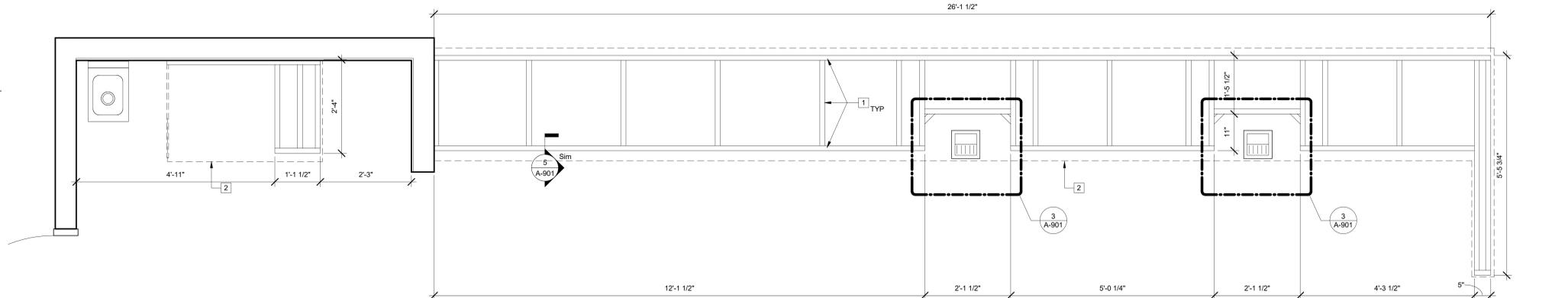
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80307-A-801-DOOR AND HARDWARE SCHEDULE

CONSTRUCTION DOCUMENTS

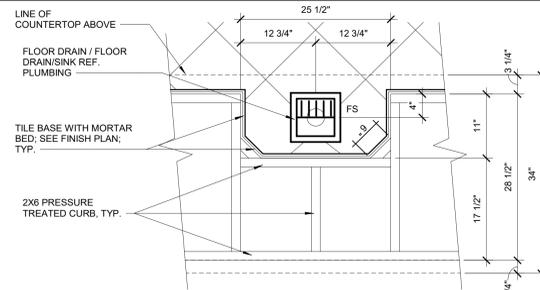
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 80307-A-901-MILLWORK CURB PLAN AND DETAILS



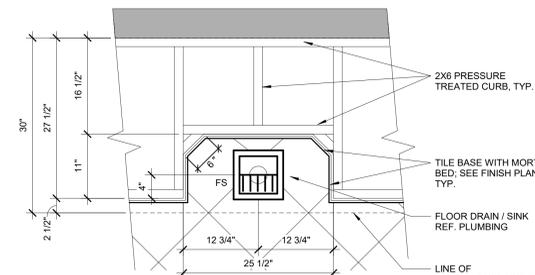
**2. MILLWORK CURB PLAN**  
 3/4" = 1'-0"



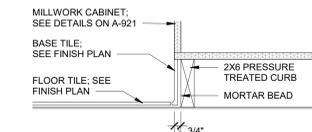
**1. MILLWORK CURB PLAN**  
 3/4" = 1'-0"



**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"

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

**REVISION SCHEDULE**

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**CONSTRUCTION DOCUMENTS**

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SHEET  
**MILLWORK CURB PLAN AND DETAILS**  
 SHEET NUMBER

**A-901**



**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.



*Chick-fil-A*

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BUILDING TYPE / SIZE: LCV / LCV  
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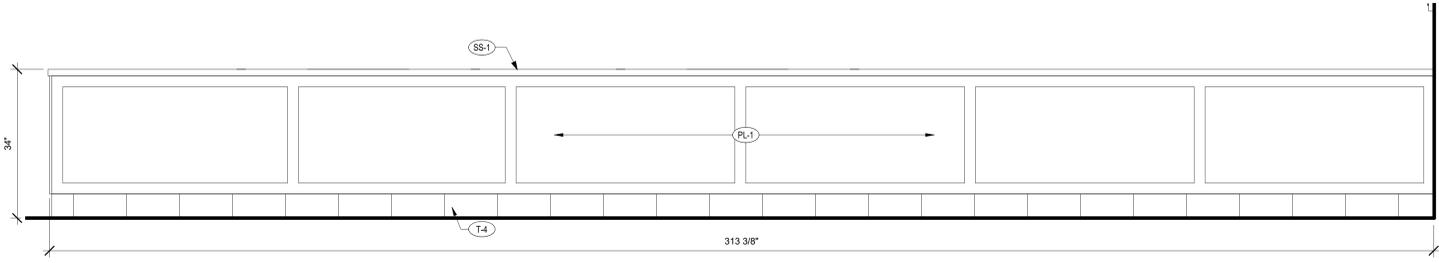
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1	04.28.2023	CONSTRUCTION DOCUMENTS			

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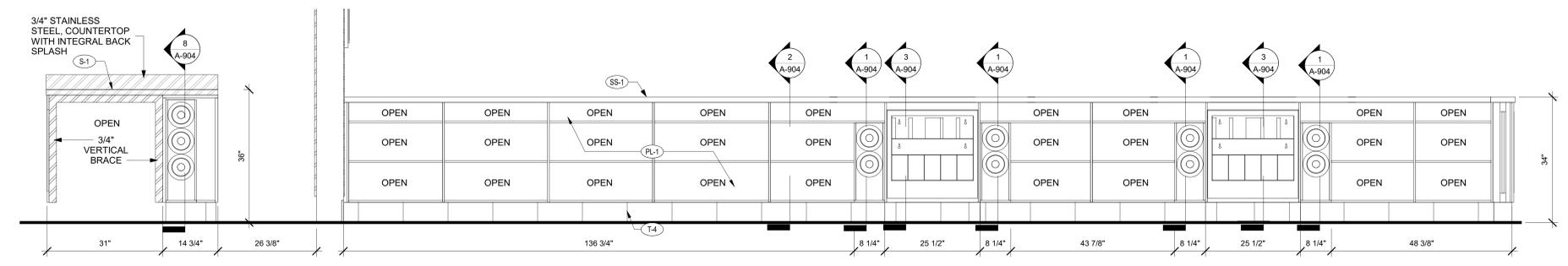
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SHEET MILLWORK ELEVATIONS

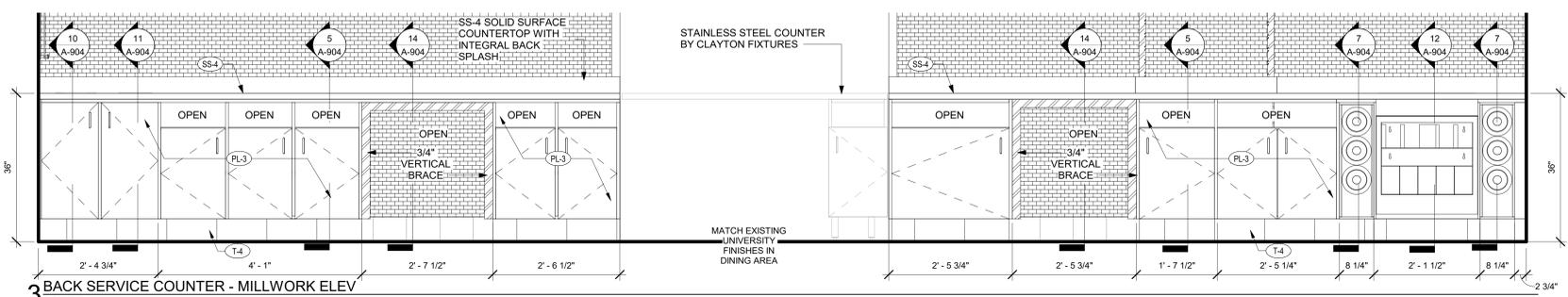
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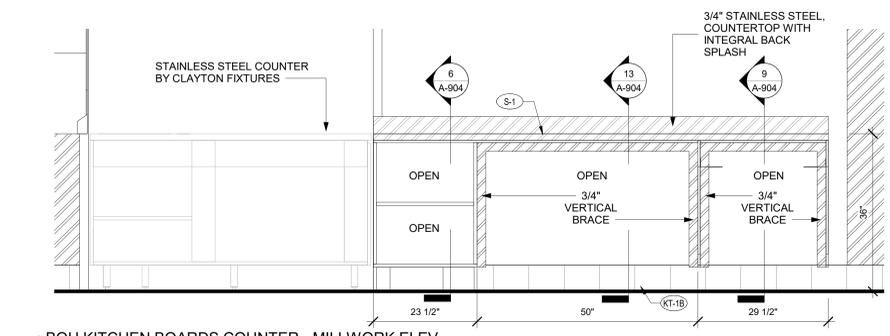
**1 FRONT SERVICE COUNTER - FRONT MILLWORK ELEV**  
3/4" = 1'-0"



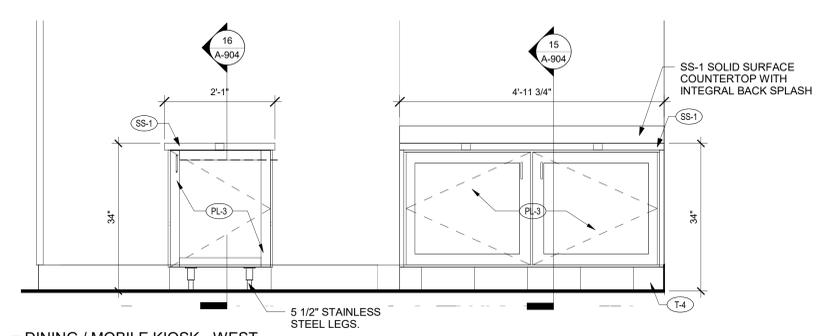
**2 FRONT SERVICE COUNTER - BACK MILLWORK ELEV**  
3/4" = 1'-0"



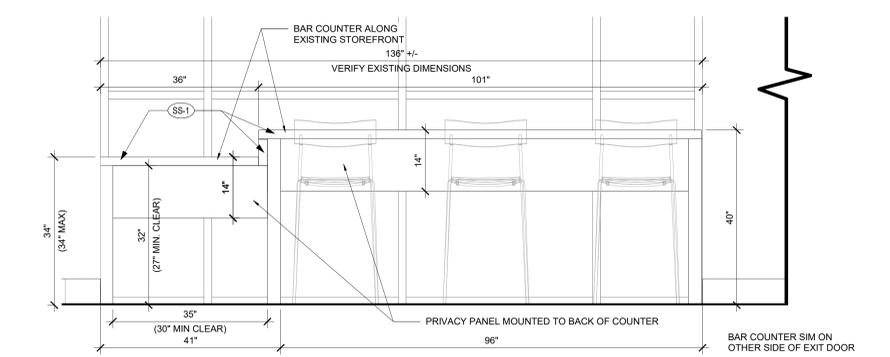
**3 BACK SERVICE COUNTER - MILLWORK ELEV**  
3/4" = 1'-0"



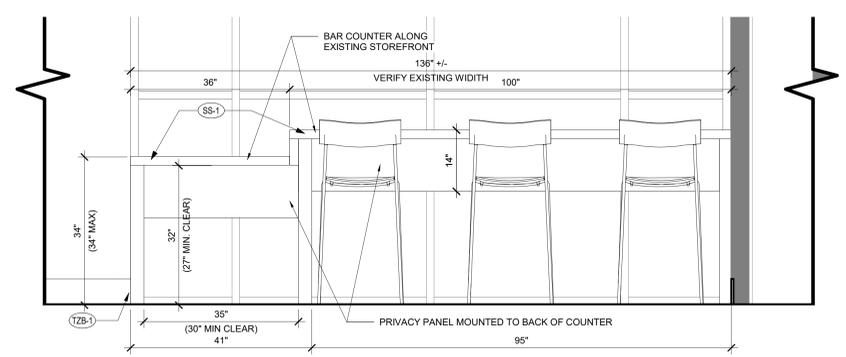
**4 BOH KITCHEN BOARDS COUNTER - MILLWORK ELEV**  
3/4" = 1'-0"



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



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



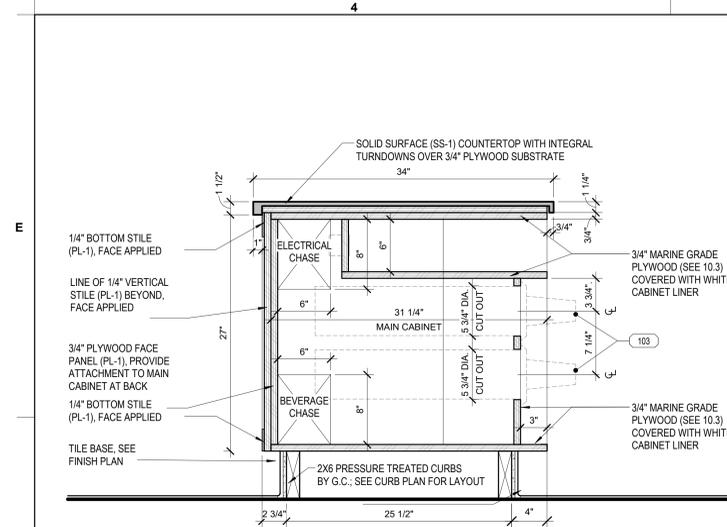
**7 DINING / STOREFRONT - WEST**  
3/4" = 1'-0"

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80307-A-903-MILLWORK ELEVATIONS

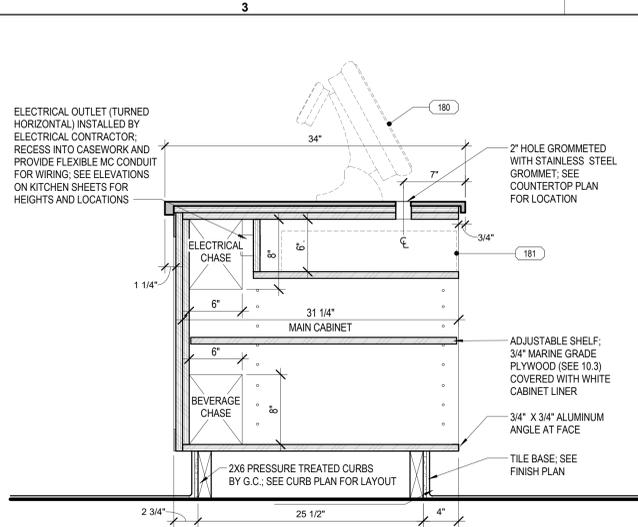
CONSTRUCTION DOCUMENTS



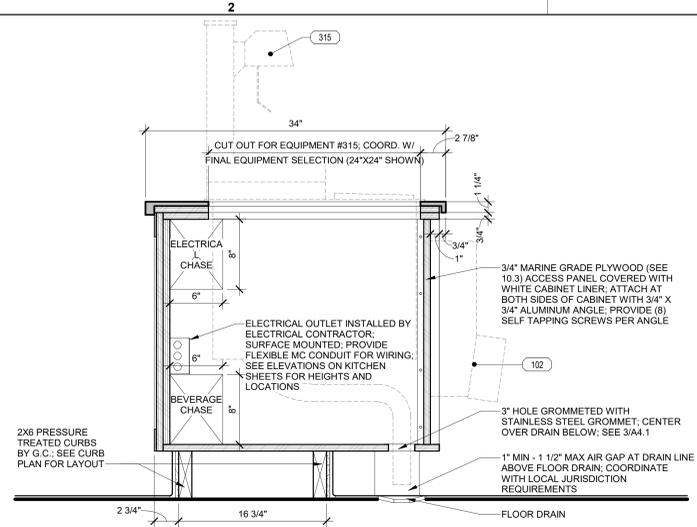
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80307-A-904-MILLWORK SECTIONS



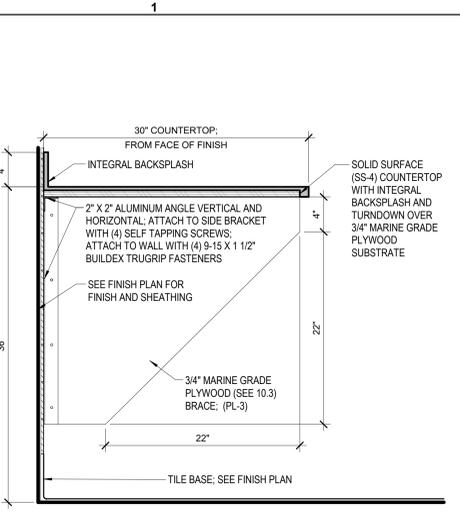
1 SECTION: COUNTER SECTION CUP DISPENSER  
1 1/2" = 1'-0"



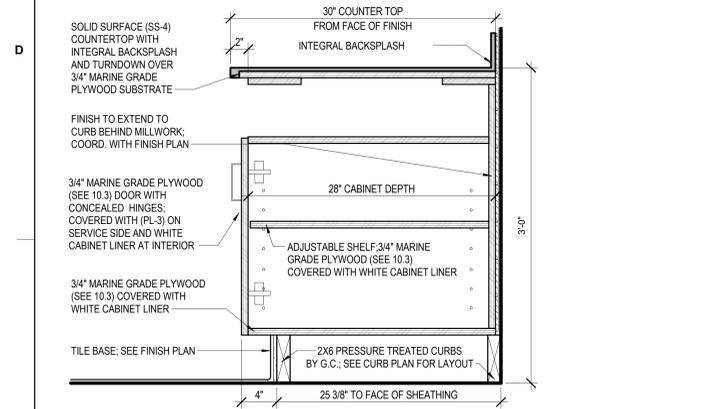
2 SECTION: CASH DRAWER  
1 1/2" = 1'-0"



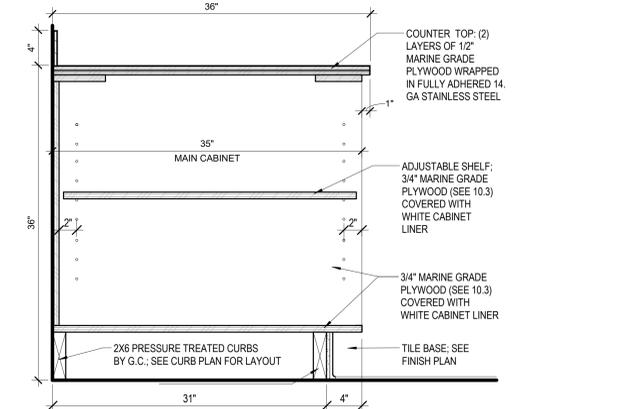
3 SECTION: DRINK TOWER @ FRONT  
1 1/2" = 1'-0"



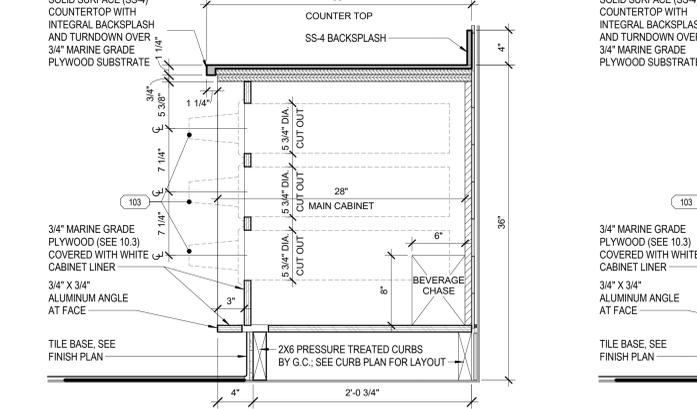
4 SECTION: WALL MOUNTED SUPPORT  
1 1/2" = 1'-0"



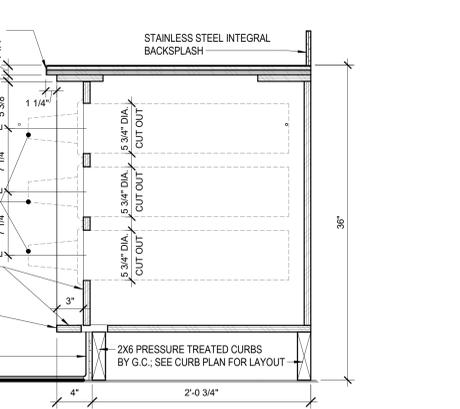
5 SECTION: STANDARD REAR  
1 1/2" = 1'-0"



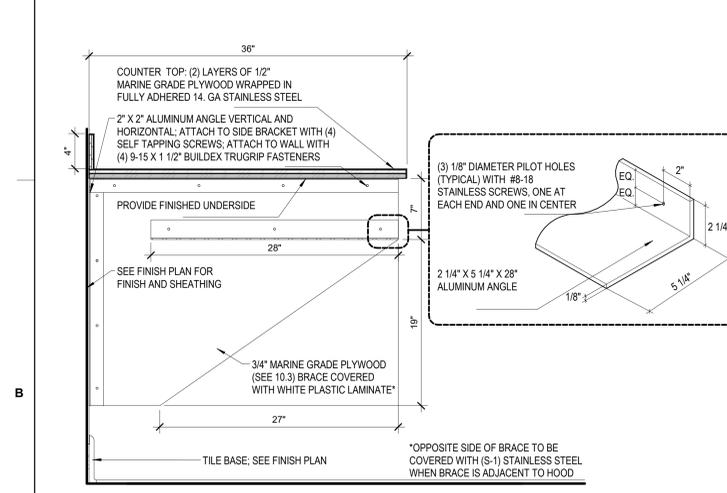
6 SECTION: STANDARD KITCHEN  
1 1/2" = 1'-0"



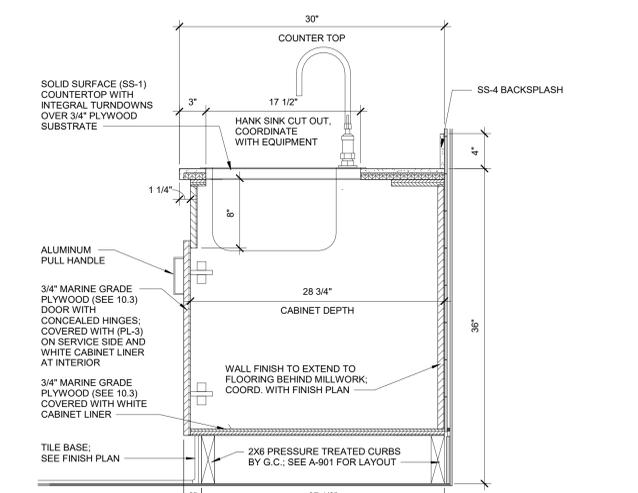
7 SECTION: BACK COUNTER SECTION CUP DISPENSER  
1 1/2" = 1'-0"



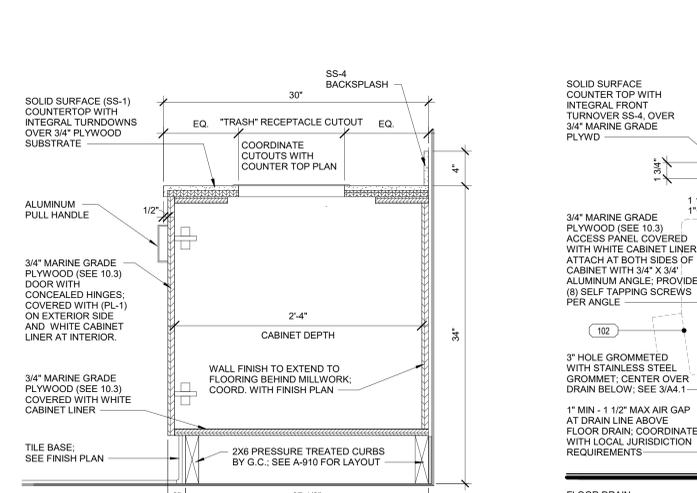
8 SECTION: BACK COUNTER SECTION CUP DISPENSER  
1 1/2" = 1'-0"



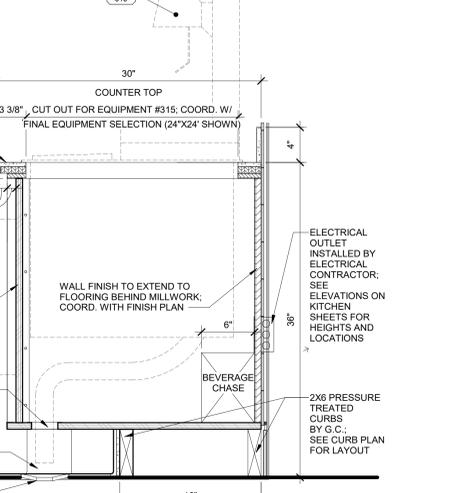
9 SECTION - BREAD RACK  
1 1/2" = 1'-0"



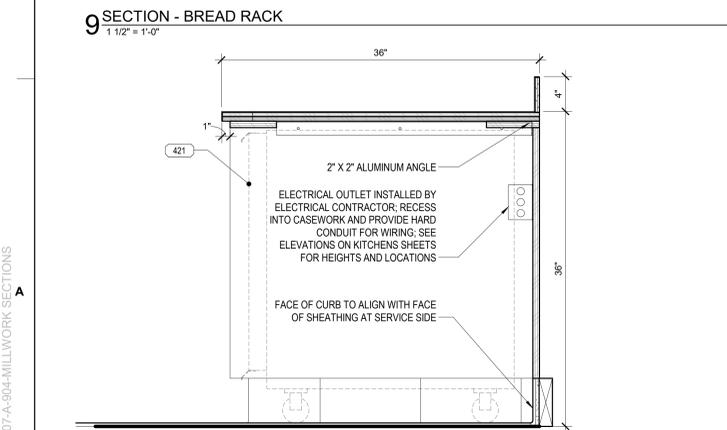
10 SECTION: BACK COUNTER HANDSINK  
1 1/2" = 1'-0"



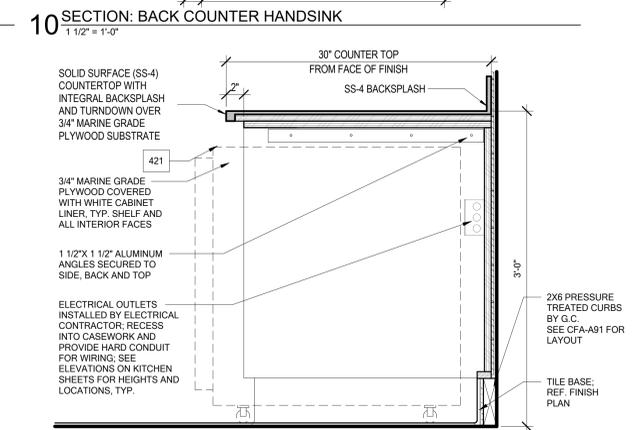
11 SECTION: RECYCLE & TRASH DISPOSAL  
1 1/2" = 1'-0"



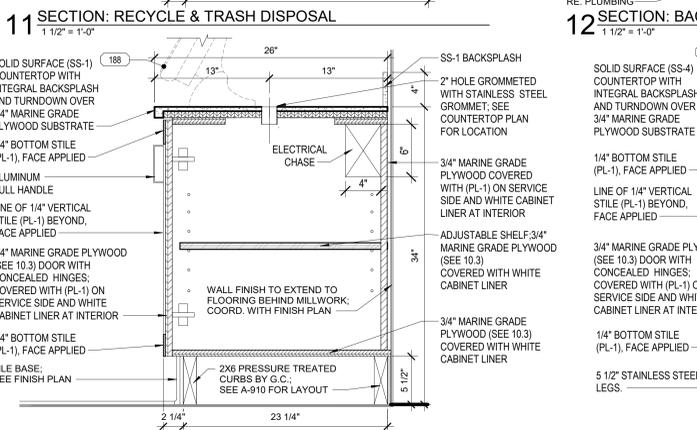
12 SECTION: BACK COUNTER DRINK TOWER  
1 1/2" = 1'-0"



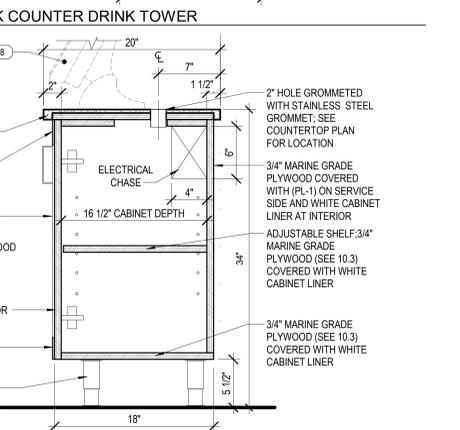
13 SECTION: KITCHEN UNDERCOUNTER EQUIP  
1 1/2" = 1'-0"



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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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

CONSULTANT PROJECT #	21136
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SHEET MILLWORK SECTIONS

SHEET NUMBER

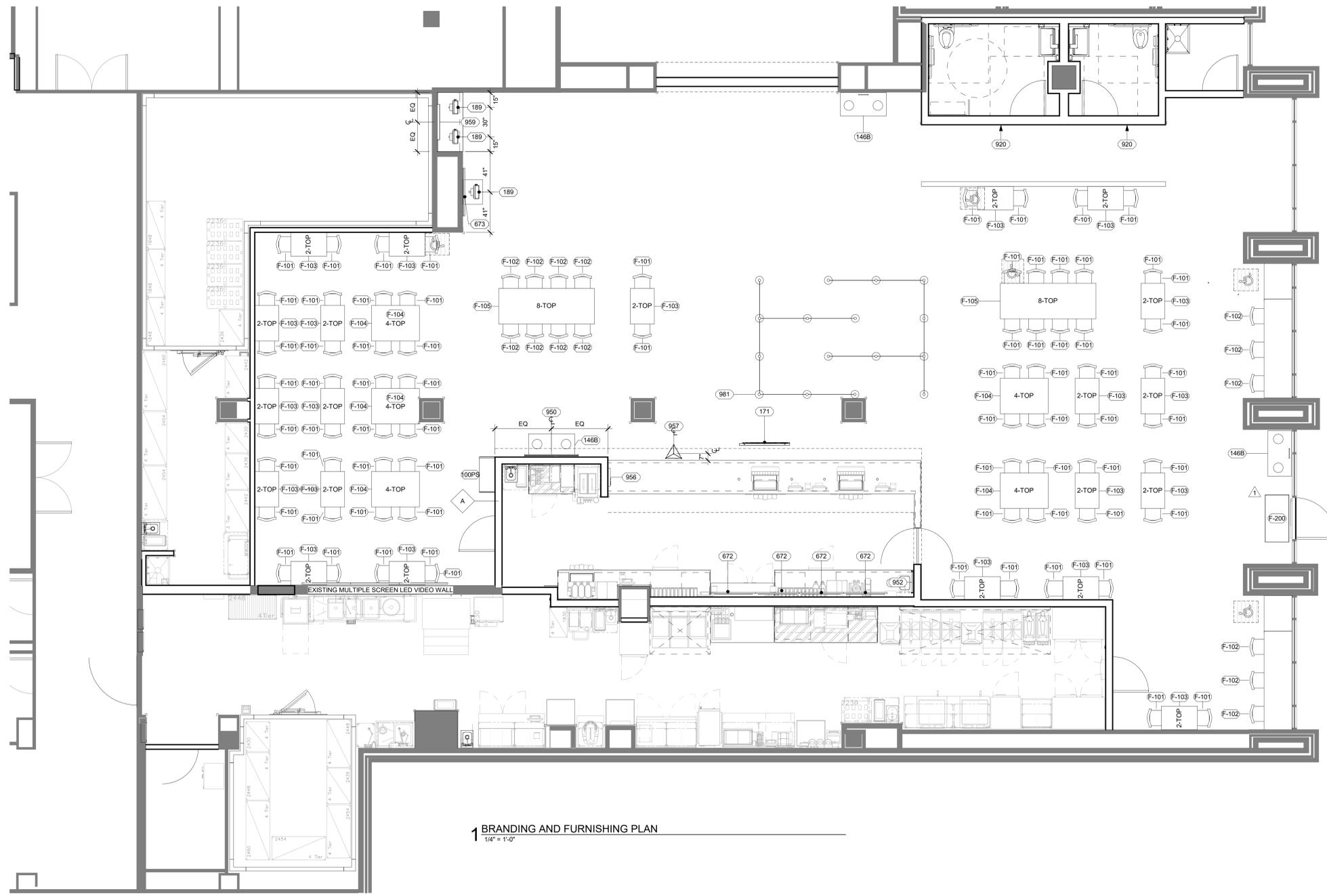
A-904

CONSTRUCTION DOCUMENTS

BRANDING SCHEDULE (ITEMS SUPPLIED BY FCC)																
CONTACT FCC VENDOR PER NATIONAL ACCOUNT SCHEDULE																
ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	ELECTRICAL MECHANICAL PLUMBING								ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)			
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW			FW	FW2	IW
100PS	1	Millwork_Shelf_Pick Up	FCC												100PS	Anchor to Wall or Millwork.
146B	3	TRASH/RECYCLE CONTAINER	FCC												146B	TOP HEIGHT OF TRASH CONTAINER TO BE AT 34" - REFER TO MANUFACTURER SHOP DRAWINGS
171	1	22" HERITAGE SCRIPT - LO PROFILE FACE - SUSPENDED	FCC												171	JUNCTION BOX TO BE CONNECTED TO LIGHT SWITCH; CUSTOM SOFFIT MOUNTING
950	1	Brand Elements_One Sided_Metal_54x54	FCC												950	Supplied by Furniture Vendor
952	1	CFA INTERIOR CERTIFICATE HOLDER SIGNAGE	FCC												952	H-CRS-001-L + CFAAMD35, Supplied by Furniture Vendor
956	1	CFA LICENSE CARES SIGNAGE	FCC												956	Supplied by Furniture Vendor
957	1	CFA INTERIOR PICK-UP SIGNAGE	PORTICO												957	
959	1	Brand Elements_Script Logo_36" Kiosk Orders	FCC												959	

BRANDING SCHEDULE (ITEMS SUPPLIED BY FOOD SERVICE PROVIDER)																
ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	ELECTRICAL MECHANICAL PLUMBING								ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)			
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW			FW	FW2	IW
189	1	ORDER REGISTER KIOSK - COUNTERTOP CUSTOMER FACING	REFER TO MANUFACTURER	120	1	0.70			5-20P						189	ORDERED BY KIOSK PROVIDER. CONFIRM LOCATION WITH FSP/ UNIVERSITY BEFORE ORDERING & INSTALLATION
672	4	DIGITAL MENU BOARD	SAMSUNG MODEL #QM50R	120	1				5-15P						672	ORDERED WITH CDM. CONFIRM ORDER WITH ITEM 671DA MENU BOARD MOUNT & (1) ITEM 671DB MEDIA PLAYER
673	1	MOBILE ORDER STATUS (CDS) MONITOR	SAMSUNG MODEL #QR50R	120	1	0.10	0.80		5-20P						673	ORDERED BY KIOSK PROVIDER. CONFIRM LOCATION WITH FSP/ UNIVERSITY BEFORE ORDERING & INSTALLATION. REFER TO MANUFACTURER SHOP DRAWINGS; ALL CDS MONITORS INCLUDE A CHROMEBOOK (GRC-000029) & KEYBOARD (GRC-000070)
981	16	QUEUING RAILING STANDICION - MOBILE	LAVI INDUSTRIES												981	MATCH BLDG STANDARDS. REFER TO UNIVERSITY
984	2	Interior Signage_Single User RR Sign_Acrylic	Furniture Vendor												984	MATCH BLDG STANDARDS. REFER TO UNIVERSITY
F-101	70	STROM - CHAIR - 990 (WOOD BACK & WOOD SEAT - 18"W x 20"D x 32 1/4"H)	MTS												F-101	REFER TO UNIVERSITY FOR FURNITURE ORDER. CONFIRM STAIN FINISH W/ UNT. CUSTOM WOOD BACK W/ LASER ETCHED DESIGN - "UNT" LOGO
F-102	14	STROM - CHAIR - 990-30 (WOOD BACK & WOOD SEAT - 18-1/4" W x 21"D x 42-3/4" H)	MTS												F-102	REFER TO UNIVERSITY FOR FURNITURE ORDER. CONFIRM STAIN FINISH W/ UNT. CUSTOM WOOD BACK W/ LASER ETCHED DESIGN - "UNT" LOGO
F-103	21	SLIMLINE 24" X 36" TABLE - 354 KNIFE EDGE BIRCHPLY	MTS												F-103	REFER TO UNIVERSITY FOR FURNITURE ORDER. CONFIRM FINISH WITH UNT. INCLUDE (1) 8922-2LS STEEL PLATE TAPERED CROSS BASE - 22"x22"x28-3/4"H
F-104	5	SLIMLINE 36" X 42" TABLE - 354 KNIFE EDGE BIRCHPLY	MTS												F-104	REFER TO UNIVERSITY FOR FURNITURE ORDER. CONFIRM FINISH WITH UNT. INCLUDE (1) 8926-2LS STEEL PLATE TAPERED CROSS BASE - 26"x26"x28-3/4"H
F-105	2	SLIMLINE 36" X 96" TABLE - 354 KNIFE EDGE BIRCHPLY	MTS												F-105	REFER TO UNIVERSITY FOR FURNITURE ORDER. CONFIRM FINISH WITH UNT. INCLUDE (2x) 8722-SU3 STEEL PLATE SQUARE - 22"x22"x40-3/4"H
F-200	1	WALK-OFF DOOR MAT	TBD												F-200	MATCH BLDG STANDARDS. REFER TO UNIVERSITY

\*CFA MENU BOARD REQUIRED SUPPLIER ONEPLEX DIGITAL MEDIA (CCOM) (ONLINE ORDER LINK: <https://mypl.com/CFA/DigitalMenuBoardProgram>)  
 ALL EQUIPMENT IN THIS SCHEDULE IS TO BE PURCHASED BY THE FOOD SERVICE PROVIDER (FSP)  
 ALL FURNITURE WILL BE SUPPLIED BY MTS SEATING 7100 Industrial Drive Temperance, MI 48182 Phone: 734.847.3875 Fax: 800.328.0587 <https://www.mtsseating.com> CONTACT: AARON MARLOWE 872.732.7120 x101 aaron@marlowecompany.com



1 BRANDING AND FURNISHING PLAN  
 1/4" = 1'-0"



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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	UNT REVIEW REV
1	04.28.2023		

CONSTRUCTION DOCUMENTS	
CONSULTANT PROJECT #	21136
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 SHEET  
 BRANDING AND FURNISHING PLAN AND SCHEDULE  
 SHEET NUMBER

F-201

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 8/3/2023 9:49:36 AM  
 80307-F-201-BRANDING AND FURNISHING PLAN AND SCHEDULE

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	GYPSPUM 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



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

**REVISION SCHEDULE**

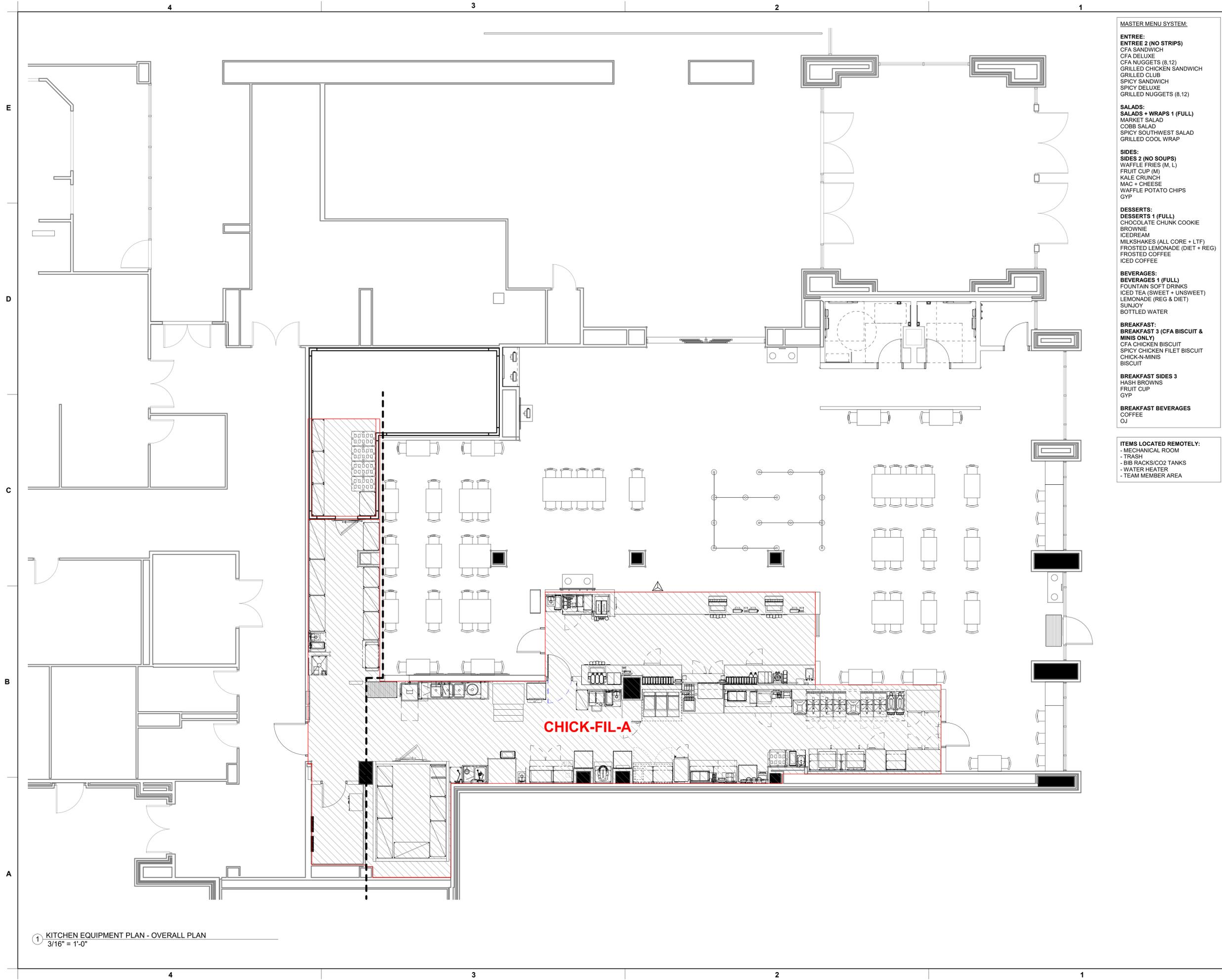
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SHEET GENERAL NOTES

SHEET NUMBER **K-001**



- MASTER MENU SYSTEM:**
- ENTREE 2 (NO STRIPS)**  
 CFA SANDWICH  
 CFA DELUXE  
 CFA NUGGETS (8,12)  
 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

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



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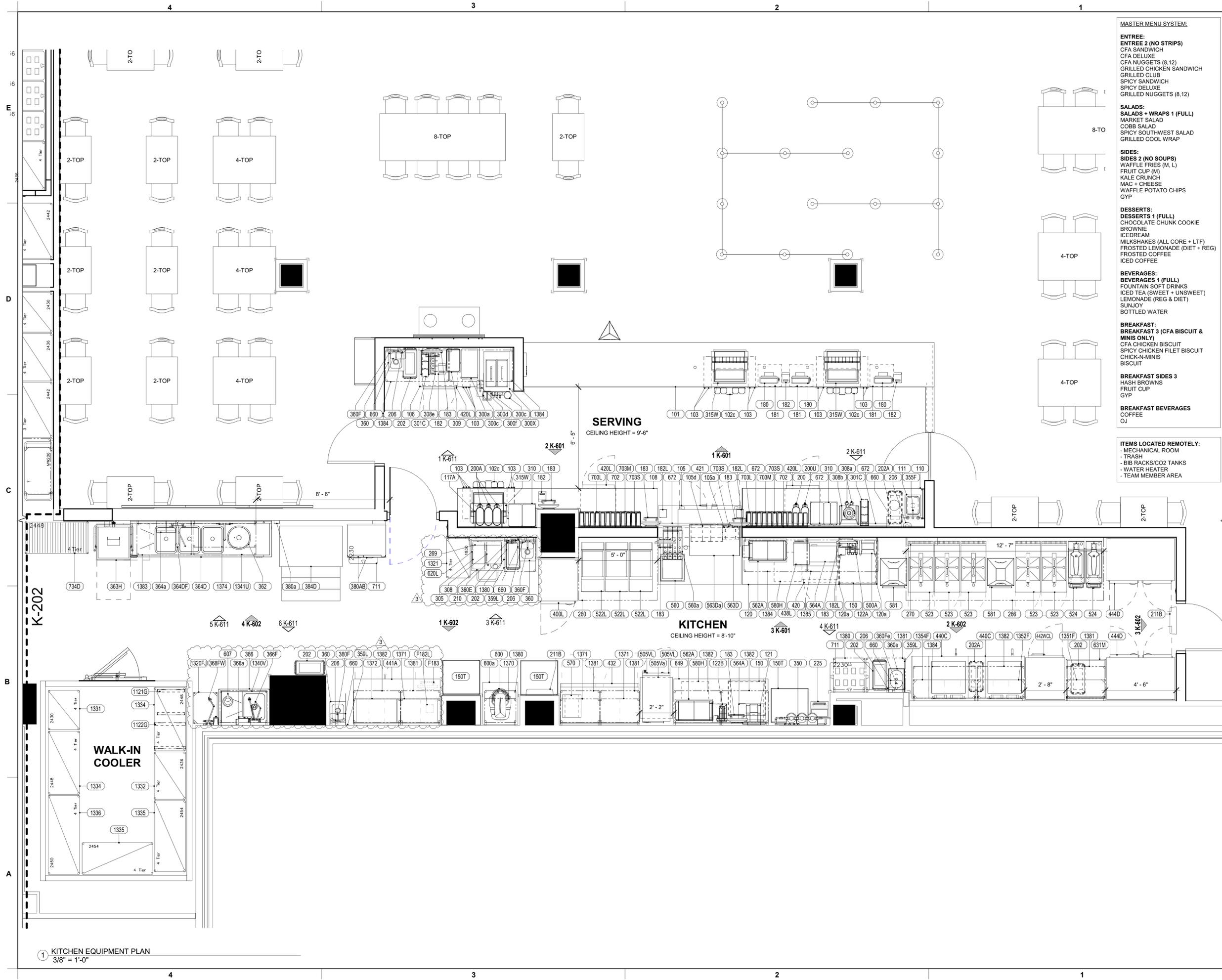
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SHEET OVERALL PLAN

SHEET NUMBER  
**K-200**

CONSTRUCTION DOCUMENTS



- MASTER MENU SYSTEM:**
- 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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SHEET  
 KITCHEN EQUIPMENT  
 PLAN

SHEET NUMBER

**K-201**

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





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SHEET  
ELECTRICAL ROUGH-IN ELEVATION

SHEET NUMBER  
**K-601**

**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.

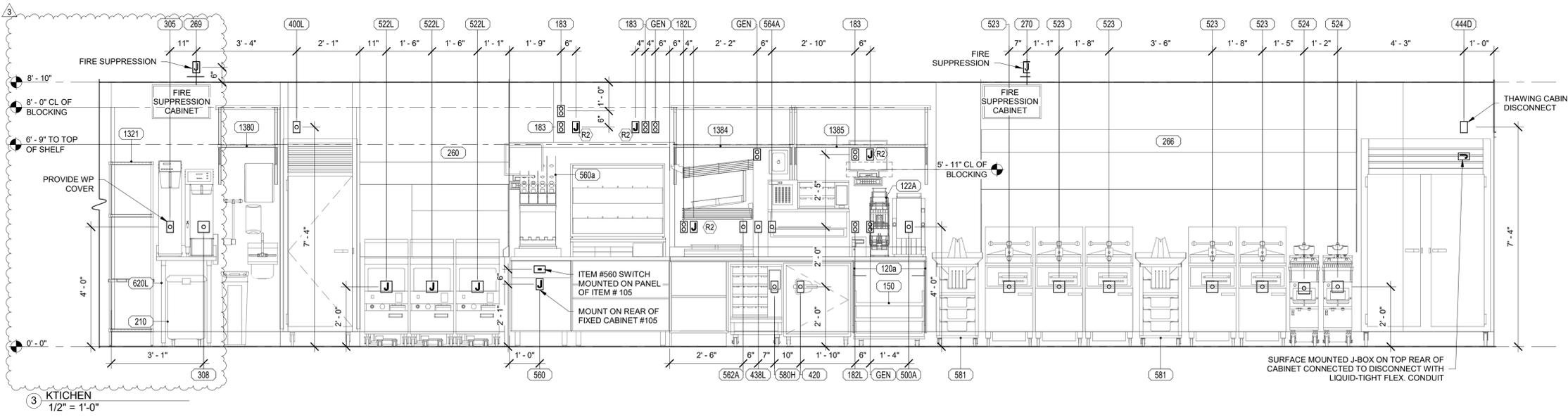
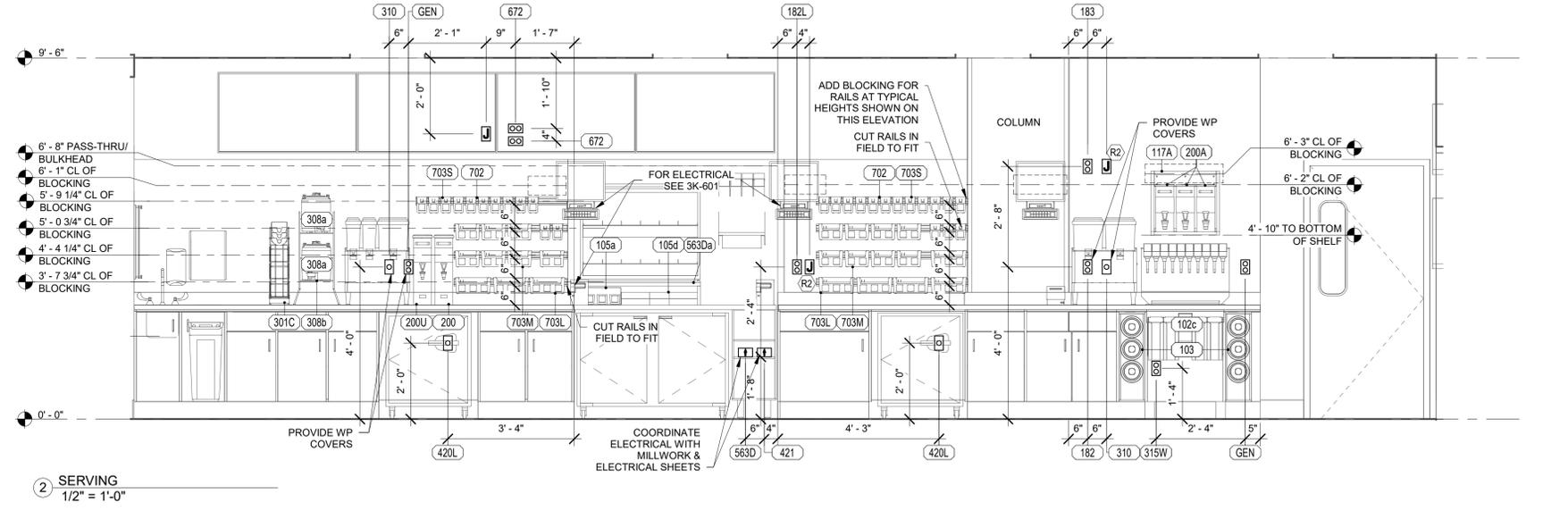
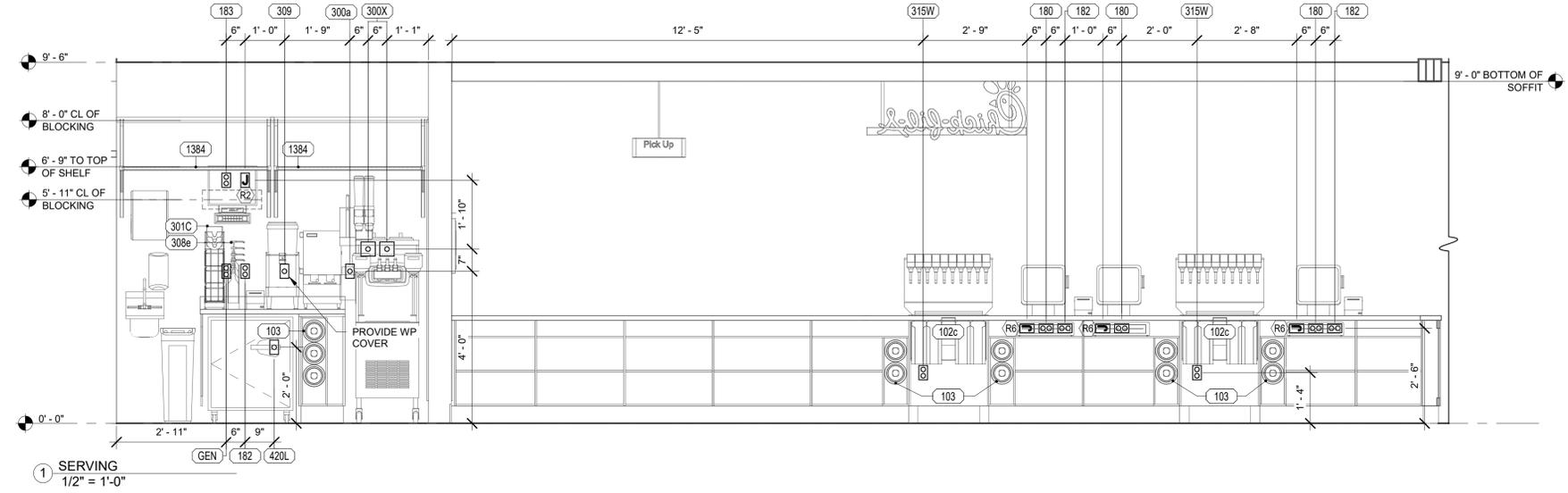
(R6) PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

(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



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80307-K-601-ELECTRICAL ROUGH-IN ELEVATION







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CONSTRUCTION DOCUMENTS

### LCV#80307

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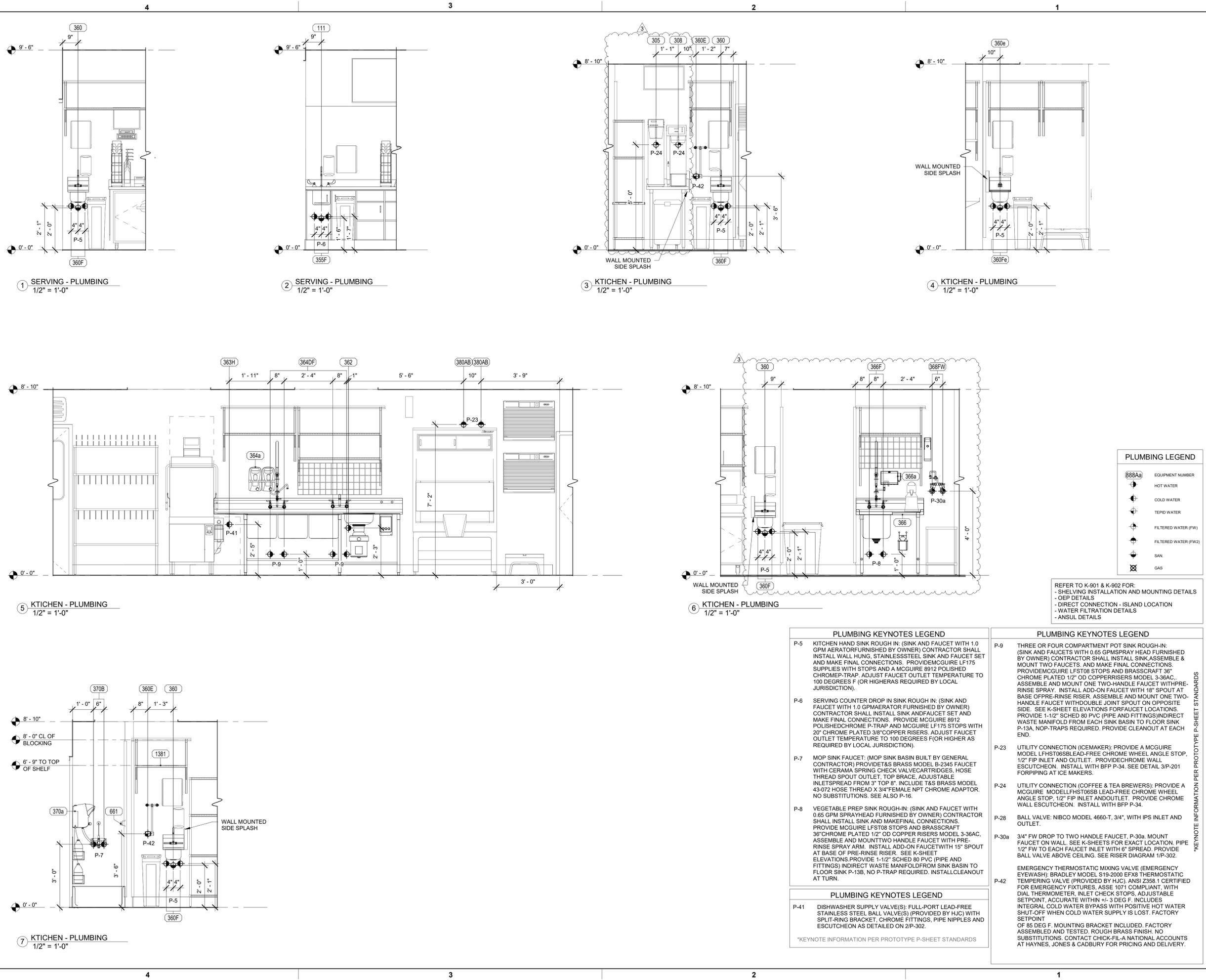
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NO.	DATE	DESCRIPTION
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SHEET  
PLUMBING ROUGH-IN  
ELEVATION

SHEET NUMBER  
**K-611**



1 SERVING - PLUMBING  
1/2" = 1'-0"

2 SERVING - PLUMBING  
1/2" = 1'-0"

3 KITCHEN - PLUMBING  
1/2" = 1'-0"

4 KITCHEN - PLUMBING  
1/2" = 1'-0"

5 KITCHEN - PLUMBING  
1/2" = 1'-0"

6 KITCHEN - PLUMBING  
1/2" = 1'-0"

7 KITCHEN - PLUMBING  
1/2" = 1'-0"

PLUMBING LEGEND	
	EQUIPMENT NUMBER
	HOT WATER
	COLD WATER
	TEPID WATER
	FILTERED WATER (FW)
	FILTERED WATER (FW2)
	SAN
	GAS

REFER TO K-901 & K-902 FOR:  
- SHELVEE 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 T&S BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLETS SPREAD FROM 3" TOP 8". INCLUDE T&S 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 BRASS CRAFT 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.

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 BRASS CRAFT 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 (ICEMAKER): 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 EF8 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

BIM 360/JTX\_80307\_University of North Texas\_2021.12\_SA780307\_University of North Texas\_EQK.rvt  
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80307-K-611-PLUMBING ROUGH-IN ELEVATION

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

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL										ITEM NO.	REMARKS			
				ELECTRICAL			PLUMBING				ROUGH-IN							
				VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	FW	FW2	IW	DW			
E	103	CUP DISPENSER	SAN JAMAR MODEL #C2410C														103	
	117A	TEA DISPENSER SHELF	H&K MODEL #CFA008														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	WALL MOUNTED SOUP PACKAGING HOLDER	FRANKE MODEL #27807101														121	SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
	122A	PACKAGING STORAGE SYSTEM	FRANKE MODEL #27801283														122A	
	122B	XL MENU TAB PACKAGING HOLDER	FRANKE MODEL #27807100														122B	
	200	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS MODEL #TCN040-SW														200	
	200A	SLIM LINE TEA DISPENSER (SHORT)	WILBUR CURTIS MODEL #TCN14040														200A	LOCATED ON ITEM #117A - ORDER (2) #TCN1404-SW AND (1) #TCN1404-US
	200U	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS MODEL #TCN040-US														200U	
	300a	MILKSHAKE BASE DISPENSER	KANPAK MODEL #CDE211 CFA-A	120	1		2.00		5-15P								300a	INCLUDES PANEL FOR USE WITH DOUBLE WALL PAPER CUPS
	300c	SINGLE-SPINDLE MIXER	HAMILTON BEACH MODEL #HMD300M-CFA														300c	MOUNTED ON ITEM #300X - FRONT MOUNT
	300d	TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS MODEL #7201-NCH														300d	MOUNTED ON ITEM #300X - LEFT HAND MOUNT - ORDER WITH 3FRA112
	300f	DOUBLE SLIMLINE COOKIE DISPENSER	SERVER MODEL #88847														300f	MOUNTED ON ITEM #300d
	300X	DOUBLE BARREL ICE CREAM MACHINE	TAYLOR MODEL #079333B/WDC (AIR COOLED)	208	3		19.00/15.00	1.50/1.50	15-30P/15-20P								300X	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
	301C	CUP DISPENSER & LID ORGANIZER	WIREFORKS MODEL #C8504WF														301C	
	305	TEA BREWER	WILBUR CURTIS MODEL #TCTT-10000	120	1	1.650	13.80		5-15P								305	PROVIDE QUICK DISCONNECT HOSES
	308	SINGLE COFFEE MAKER	WILBUR CURTIS MODEL #TP2S10A3140	208	1	4.000	19.20		14-30P			3/8"					308	QUICK DISCONNECT HOSES PROVIDED BY CLARK
	308a	COFFEE WARMER	WILBUR CURTIS MODEL #FTT1G3040									3/8"					308a	MOUNTED ON ITEM #308b - ORDER (2) ADDITIONAL WARMERS (NOT SHOWN ON DRAWINGS)
	308b	COFFEE WARMER STAND	QUADRA TECH MODEL #CFA3QD008														308b	
	309	SINGLE LEMONADE BUBBLER	CRATHCO MODEL #CS-ID-16	120	1		3.60	0.10	5-15P								309	ORDER (1) #3CRA015 BOWL KIT AND (1) #3CRA017 BASE PER BUBBLER
	310	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	WATER FILTRATION SYSTEM - TYPE A	SELECTO SCIENTIFIC T1 FILTER SYSTEM MODEL #80-6203CFB-PEX									3/4"					350	SEE DETAILS PAGE K-901 FOR TYP.
	360e	HAND SINK	EAGLE MODEL #YCFA-HSAN-0004-00											2"			360e	WITH SIDE MOUNTING BRACKETS
	380a	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	120	1	0.0096			5-15P								380a	INSTALLED ON WALL ABOVE ICE BIN
	380AB	ICE MACHINE WITH RIDE SYSTEM (AIR-COOLED)	FOLLETT MODEL #HMC1410ABS	208	1	3.100	14.00		6-20P				1/2"	3/4"			380AB	SELF-CONTAINED UNIT - MOUNTED TO WALL - ORDER WITH #00997098 BRACKET - PROVIDED WITH 6 FT CORD
	384D	48 INCH SINGLE DOOR ICE DEVICE WITH SMART CART 75	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
D	400L	REACH-IN FREEZER (30" WIDE)	TRAUlsen MODEL #RLT132WUT-FHS	115	1	1.100	9.40		5-15P								400L	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 7/16 IN CASTERS
	420	SINGLE UNDERCOUNTER REFRIGERATOR	TRAUlsen MODEL #UHT27-ZCF	115	1	0.564	4.70	0.2	5-20P								420	HINGE RIGHT - ORDER ON 4 IN CASTERS
	420L	SINGLE UNDERCOUNTER REFRIGERATOR	TRAUlsen MODEL #UHT27-ZCF	115	1	0.564	4.70	0.2	5-20P								420L	HINGE LEFT - ORDER ON 4 IN CASTERS
	421	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAUlsen MODEL #UHT48-ZCF-LR	115	1	0.756	6.30	0.20	5-15P								421	ORDER ON 4 IN CASTERS
	432	DOUBLE REFRIGERATED WORK TABLE	TRAUlsen MODEL #UHT60-ZCF-LR	115	1	0.756	6.3	.2	L5-20P								432	E.C. TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6" CASTERS WITH BACKSPASH TOP
	433L	33" COLD RAIL	RANDELL MODEL #CR3039M-CFA	115	1	0.800	7.10	0.25	5-15P								433L	COMPRESSOR ON LEFT - SUPPLIED WITH 9 FT CORD AND PLUG
	440C	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	REFRIGERATED PREP TABLE	TRAUlsen MODEL #TS-068HT	115	1		9.0	1/2	L5-15P								441A	PROVIDED WITH TWIST LOCK PLUG - ORDER ON 4" CASTERS - INCLUDES PAN PACKAGE
	442WCL	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	TRAUlsen MODEL #RH132W-ZCF17	115	1		7	0.333	5-15P								442WCL	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
	444D	DOUBLE THAWING CABINET (52" WIDE)	TRAUlsen 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	VERTICAL CONTACT TOASTER	ROUNDUP MODEL #VCT-2	120	1	1.80	15.00		5-15P								500A	
	505Va	VECTOR OVEN STACKING KIT	ALTO-SHAAM MODEL #5028452														505Va	
	505VL	VECTOR OVEN	ALTO-SHAAM MODEL #VMC-H3H 106226	208	3	7.90	22.00		15-30P								505VL	HINGE LEFT
	522L	SINGLE OPEN FRYER	HENNY PENNY MODEL OFE-321.05 + 3PSE003	208	3	22	61		DIRECT CONNECTION								522L	6X6 J-BOX, ORDER WITH 3PSE003 AND 3MED011
	523	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	208	3	13.500	38.00		15-50P								523	PROVIDED WITH 6 FT CORD AND PLUG
	524	DUAL SIDE CLAMSHELL GRILL	GARLAND MODEL #CXPB12	208	3	3.3	24.1/28.2/23.1		15-50P								524	PROVIDED WITH 5' CORD & PLUG
	560	FRY HOLDING STATION	BKI MODEL #FW-15BB (312007F)	120	1	1.90	15.4		5-20P								560	
	560a	FRY CARTON DISPENSER ASSEMBLY	SAN JAMAR MODEL #WFD210 AND #WFD230														560a	ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT
	562A	HIGH DENSITY HOT HOLDING TOWER	FRANKE MODEL #18017713	120	1	1.80	16.00		5-20P								562A	PROVIDED WITH 8 FT CORD AND PLUG
	563D	DOUBLE TIER SANDWICH SLIDE 38 INCH	BKI MODEL #2TSM-3824R	120/208	1	1.73	9.18		14-20P								563D	CORD EXITS RIGHT - 6' CORD AND PLUG
	564A	VISUAL HOT HOLDING CABINET (2x2)	MERCO MODEL #MHC2SNT1T	120	1	0.66	5.5		5-15P								564A	ORDER WITH LIDS/TRAY SEALS, AMBER PANS, & FALSE BOTTOMS
	570	COOLING RACK	H&K MODEL #CFA104														570	
	580H	VISUAL HOT HOLDING CABINET (5x2)	MERCO MODEL #MHC5SNT1T	120	1	1.92	16.0		5-20P								580H	ORDER WITH LIDS/TRAY SEALS
	581	DUMP CART	FRANKE CTS CART MODEL #18008028														581	(1) NOT SHOWN IN PLAN
	600	MIXER	HOBART MODEL #HL200-1	120	1		8.00	0.50	5-20P								600	ORDER WITH (1) 3HOB405, (1) 3HOB061, (2) 3HOB318, (2) 3HOB319, AND (1) 3HOB058
	600a	MIXER ROLLING CART	HOBART MODEL #HL2012														600a	ORDER ON 6" CASTERS
	605	MOBILE CART	INTERMETRO MODEL #MW206														605	ORDER ON 5" CASTERS
C	607	COUNTERTOP LEMON JUICER	SUNKIST MODEL #J-1	115	1		0.25		5-15P								607	
	620L	FOOD PREP TABLE	EAGLE MODEL #T2424STE-B5														620L	WITH BACKSPASH - ORDER WITH 1 5/8 IN DIAMETER LEGS
	631M	FILET TABLE (30"x30")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF355														631M	WITH MARINE EDGE AND BACKSPASH ON 5 IN CASTERS
	649	MODIFIED DUAL LINE TABLE (72")	EAGLE MODEL #YCFA-DL-0039-00														649	WITH BREAD RACKS ON LEFT - NO BRIDGE
	702	WALL MOUNT SINGLE RAIL	U-LINE MODEL #H-4681														702	
	703L	LARGE CONDIMENT BIN	CARLISLE MODEL #104976GY														703L	
	703M	MEDIUM CONDIMENT BIN	CARLISLE MODEL #104977GY														703M	
	703S	SMALL CONDIMENT BIN	CARLISLE MODEL #104978GY														703S	
	711	DUNNAGE RACK (22"x30")	INTERMETRO MODEL #HP2230PDMB														711	
	712	DUNNAGE RACK (22"x36")	INTERMETRO MODEL #HP2236PDMB														712	
	734D	DRYING RACK (24"x48")	INTERMETRO MODEL #PR48X														734D	METROSEAL - 4 SHELVES
	1121G	TRAY SLIDES (21" DEEP)	INTERMETRO														1121G	METROSEAL GRAY - INSTALLED BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER
	1122G	TRAY SLIDES (24" DEEP)	INTERMETRO MODEL #20SNK4														1122G	METROSEAL GRAY - INSTALLED BETWEEN SHELVES IN COOLER
	1140F	VERTICAL SHELF DIVIDER (8" HIGH X 14" DEEP)	INTERMETRO														1140F	MOUNTED ON 12" CENTERS AT FOOD PREP AREA - NOT SHOWN ON PLAN
	1141G	VERTICAL SHELF DIVIDER (8" HIGH X 18" DEEP)	INTERMETRO														1141G	MOUNTED ON 12" CENTERS AT FOOD PREP AREA - NOT SHOWN ON PLAN
	1320FJ	JUICER WORK TABLE (18x24)	INTERMETRO														1320FJ	WITH (2) SOLID SHELVES AND 27-1/2 IN LEGS - ORDER (2) 1824FS AND (4) 27PK4
	1321	FLOOR SHELF UNIT (74" POST, 18"x30")	INTERMETRO														1321	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
	1324W	FREEZER FLOOR SHELF UNIT (74" POST, 18"x48")	INTERMETRO														1324W	METROSEAL GRAY - (1) 1848NK4, (3) DD9807C, (4) 74PK4, & (4) 9993S
	1331	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO														1331	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
	1332	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO														1332	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
	1332W	FREEZER FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO														1332W	METROSEAL GRAY - (4) 2436NK4, (4) 74PK4, & (4) 9993S
	1333	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO														1333	METROSEAL GRAY - 4 SHELVES
	1333N	FLOOR SHELF UNIT (74"																

**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							1/2"	1/2"						355F	
359	1	WALL MOUNTED SPLASH GUARD	GC/FSP VENDOR														359	SEE DETAILS PAGE K-901 FOR TYP.
359L	3	WALL MOUNTED SPLASH GUARD	GC/FSP VENDOR														359L	SEE DETAILS PAGE K-901 FOR TYP.
360	4	HAND SINK	EAGLE MODEL H5AN-10														360	SEE DETAILS PAGE K-901 FOR TYP.
360E	2	EMERGENCY EYEWASH STATION	ACORN MODEL #S0660-RH												2"		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					1 1/2"			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	SINGLE BOWL VEGETABLE PREP 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	VEGETABLE WASH DISPENSER	ECOLAB														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									1"					368FW	
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											3"			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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**CONSTRUCTION DOCUMENTS**  
**LCV#80307**  
BUILDING TYPE / SIZE:  
RELEASE: v8.22.11  
**REVISION SCHEDULE**  
NO. DATE DESCRIPTION  
3 07/31/2023 Revision 3

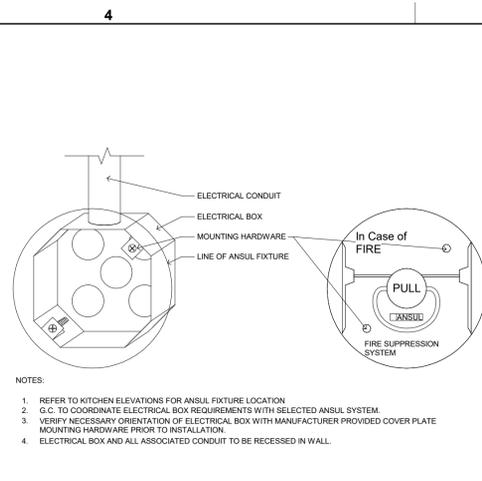
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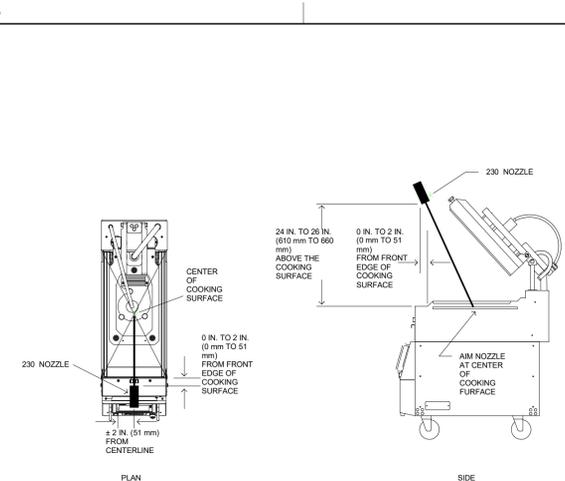
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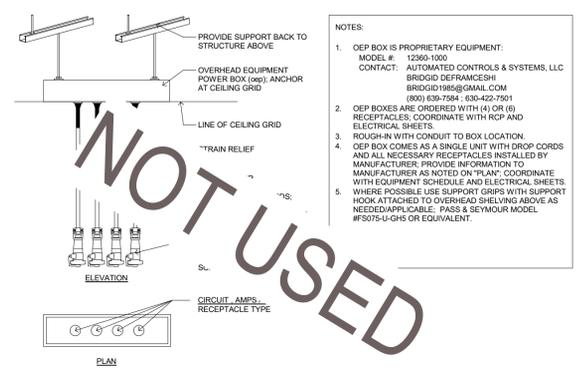
**K-802**



**1 ANSUL PULL MOUNTING DETAIL**  
SCALE: N.T.S.



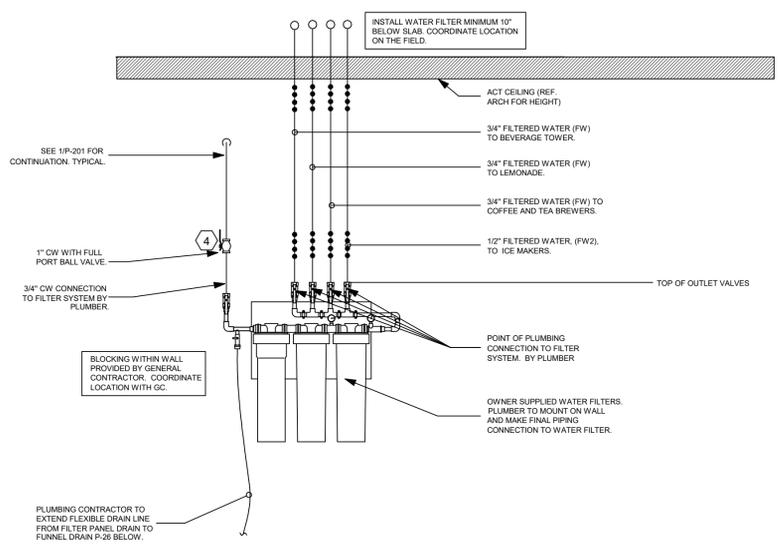
**2 ANSUL NOZZLE AT GRILL ON HOOD**  
SCALE: N.T.S.



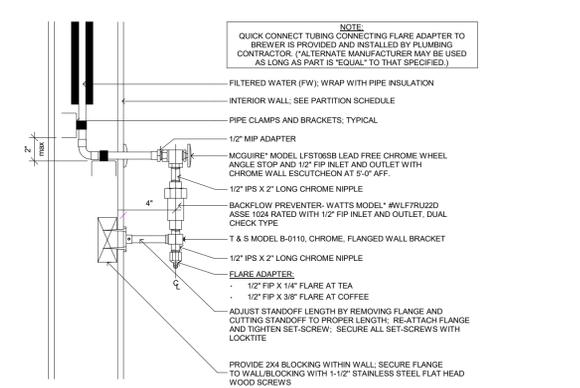
**3 OEP DETAILS**  
SCALE: N.T.S.



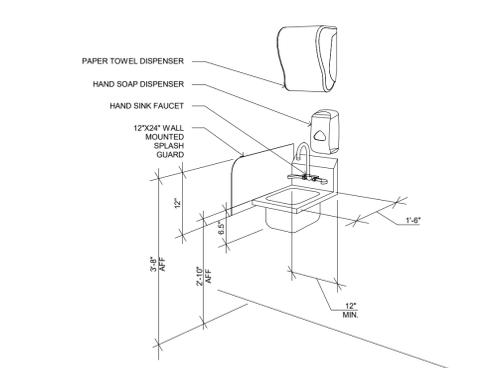
**4 DIRECT CONNECTION - ISLAND LOCATION**  
SCALE: N.T.S.



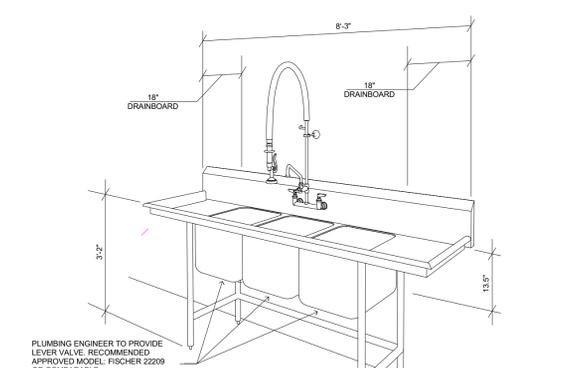
**5 PIPING AT WATER FILTER**  
SCALE: N.T.S.



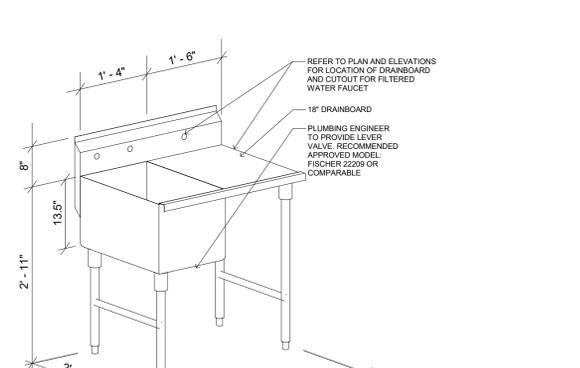
**6 COFFEE & TEA BREWER STOP & BFP**  
SCALE: N.T.S.



**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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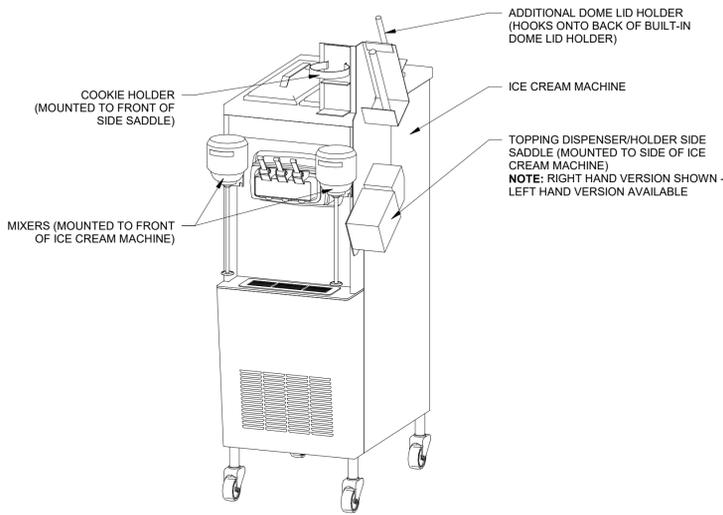
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SHEET  
KITCHEN DETAILS

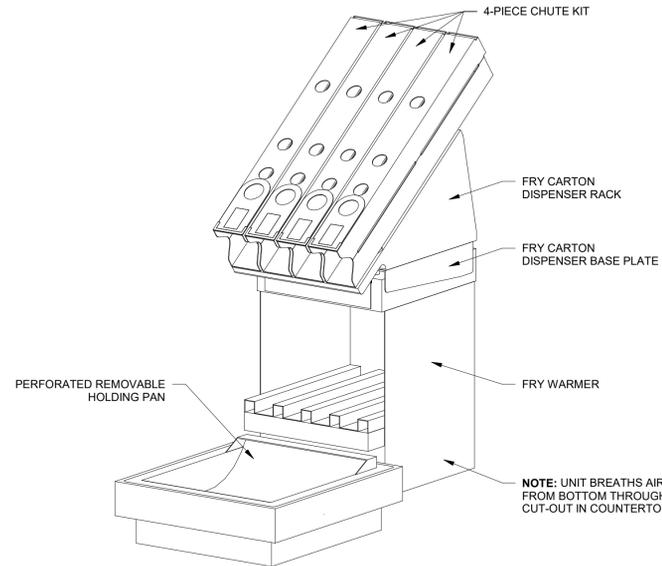
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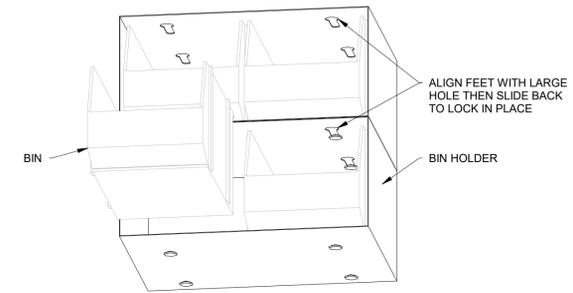


1 ICE CREAM MACHINE & ACCESSORIES  
SCALE: N.T.S.

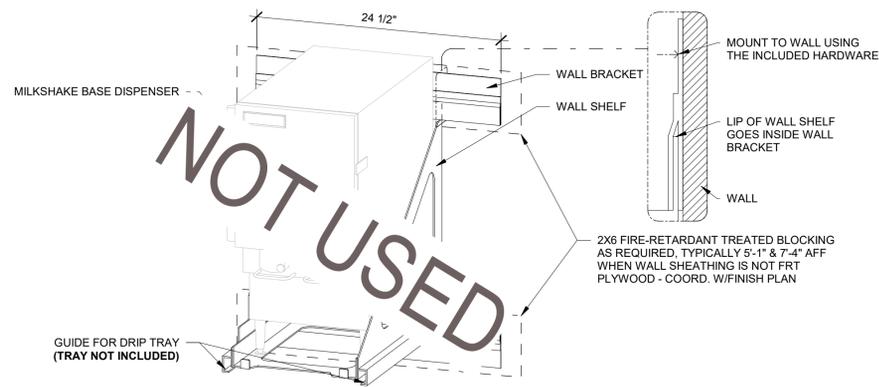
NOTE:  
- MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT  
- HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF THE PERFORATED PAN  
- CUT-OUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE



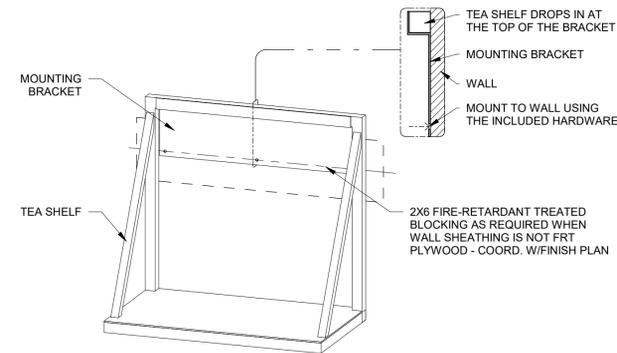
2 FRY PACKAGING & FRY DUMP  
SCALE: N.T.S.



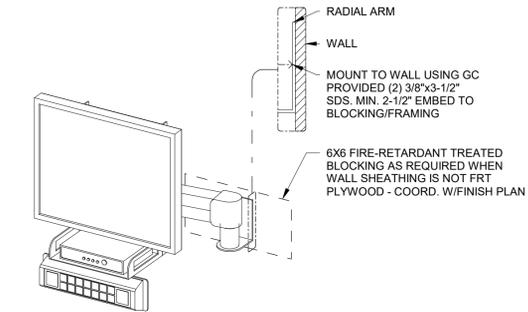
3 BIN HOLDER WITH BINS  
SCALE: N.T.S.



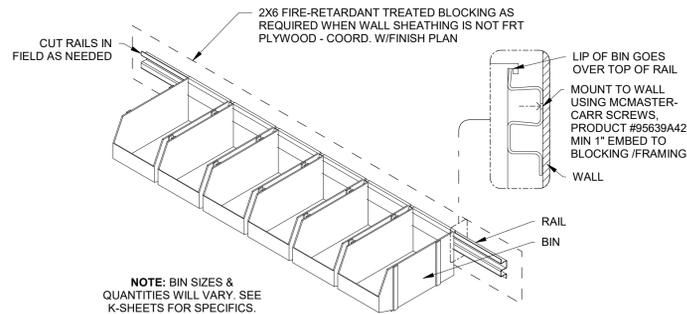
4 MILKSHAKE BASE DISPENSER & SHELF  
SCALE: N.T.S.



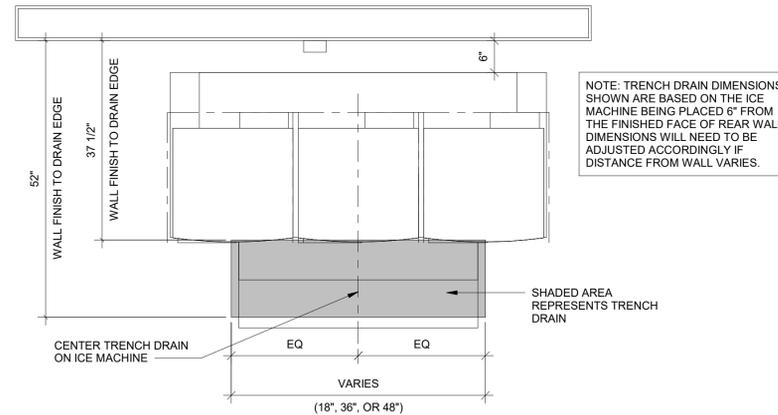
5 TEA SHELF  
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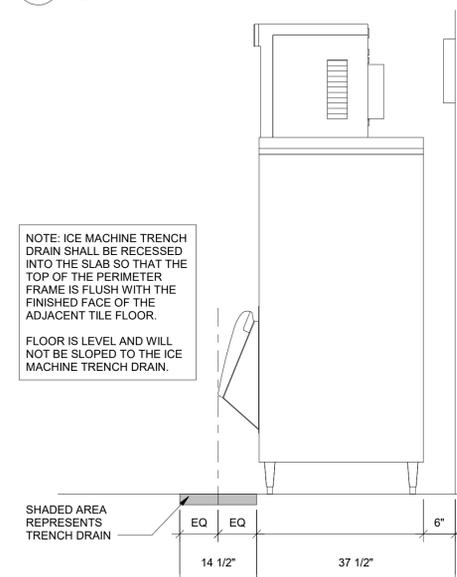
6 KPS ARM  
SCALE: N.T.S.



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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LCV#80307

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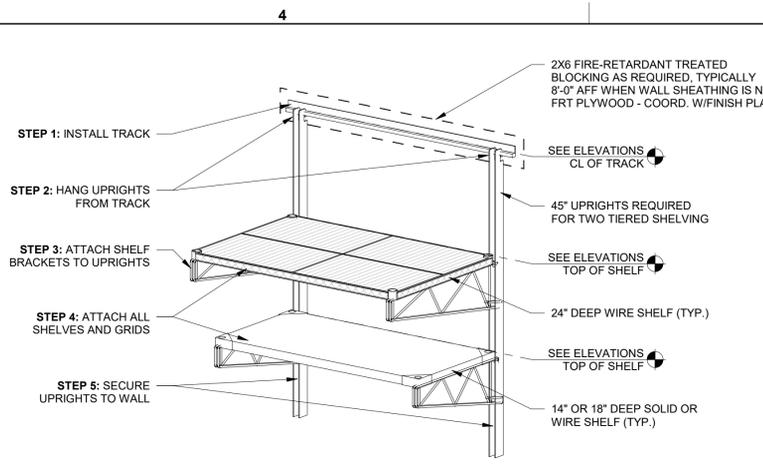
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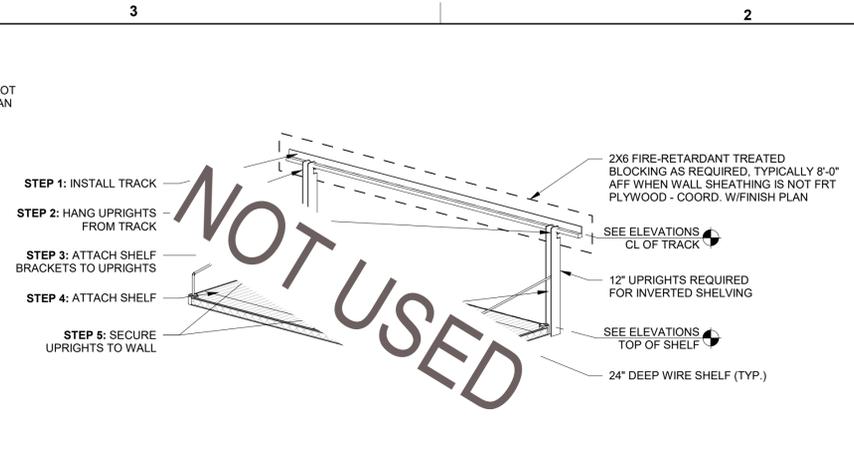
SHEET KITCHEN DETAILS

SHEET NUMBER

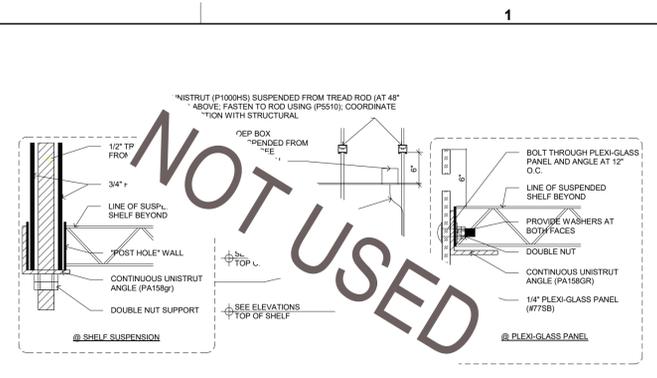
K-902



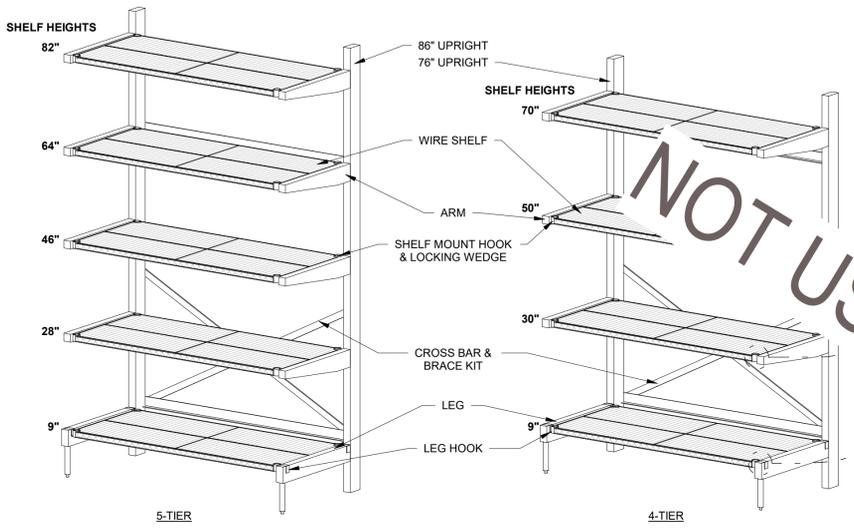
1 SHELVING INSTALL DETAIL: WALL MTD.  
SCALE: N.T.S.



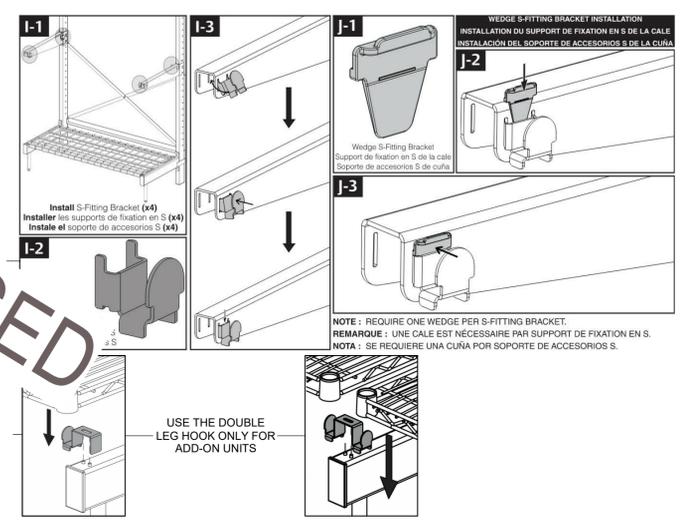
2 SHELVING INSTALL DETAIL: WALL MTD. - INVERTED  
SCALE: N.T.S.



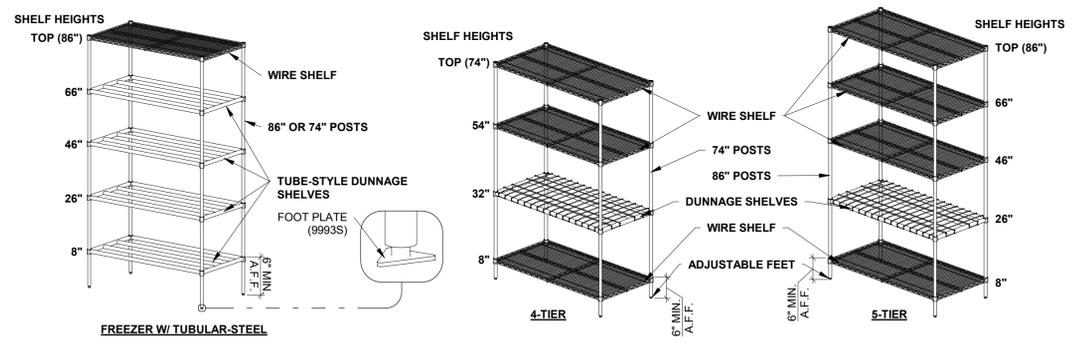
3 SHELVING INSTALL DETAIL: SUSPENDED  
SCALE: N.T.S.



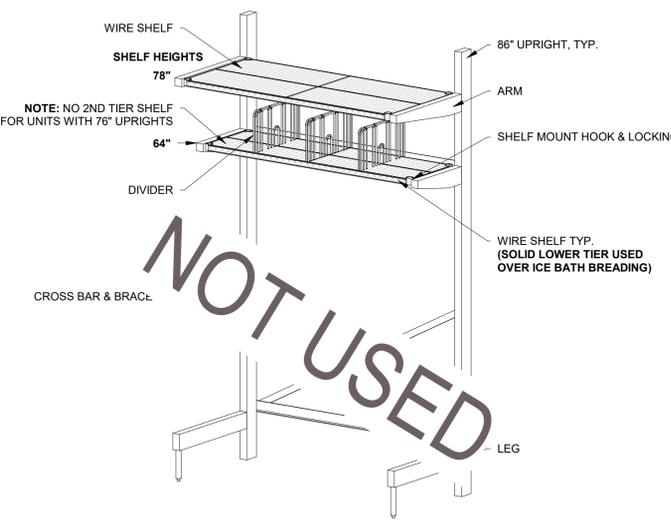
4 CANTILEVER - DRY STORAGE  
SCALE: N.T.S.



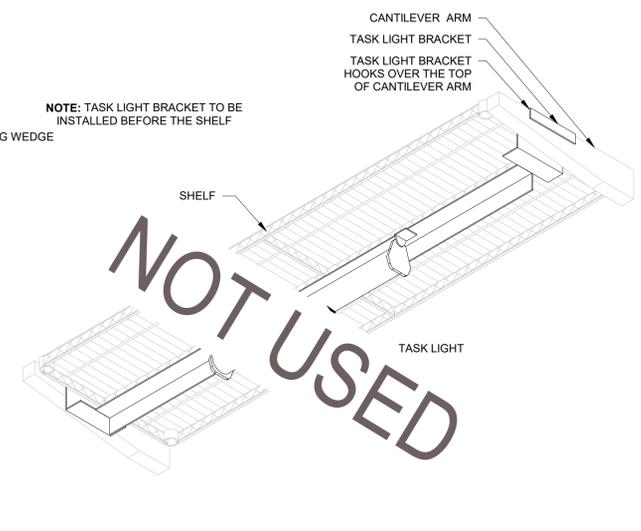
5 STAINLESS STEEL PANELS  
SCALE: N.T.S.



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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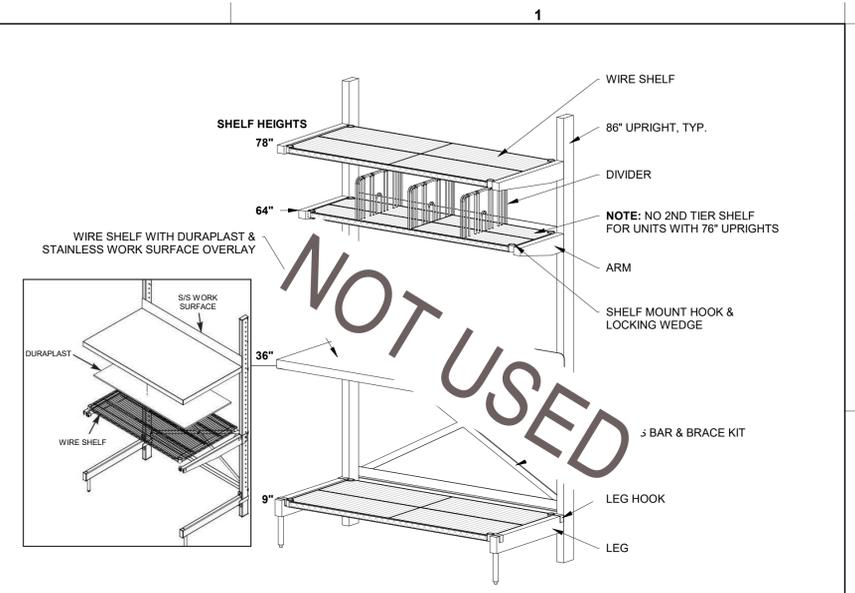
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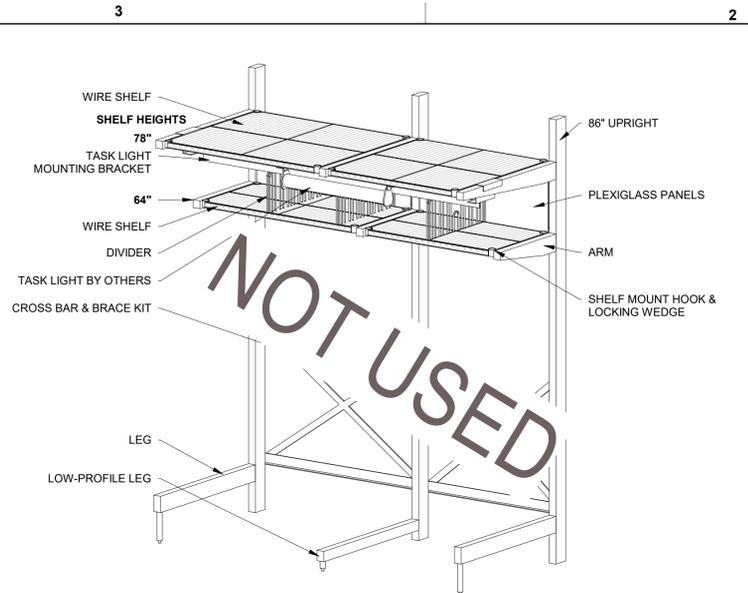
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KITCHEN DETAILS

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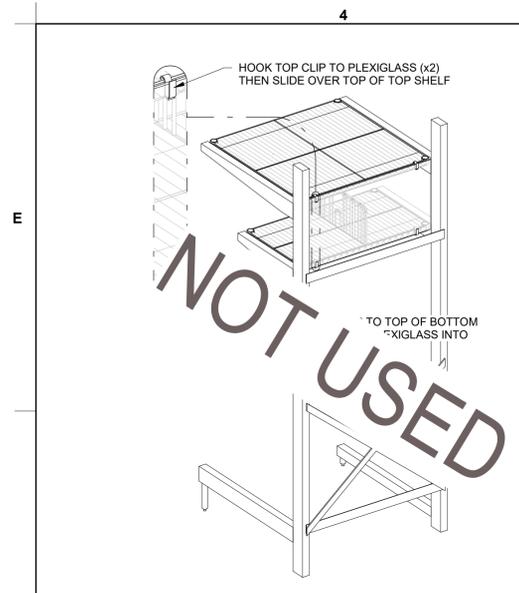
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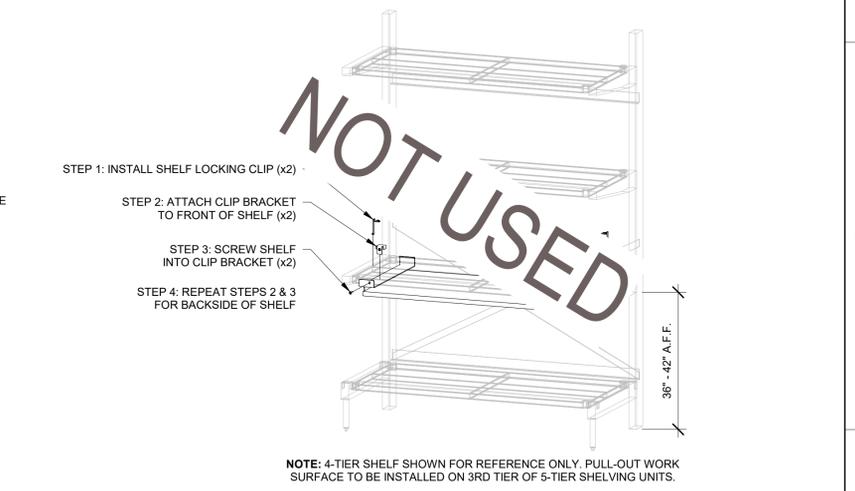
3 CANTILEVER SHELVING - WORK SURFACE  
SCALE: N.T.S.



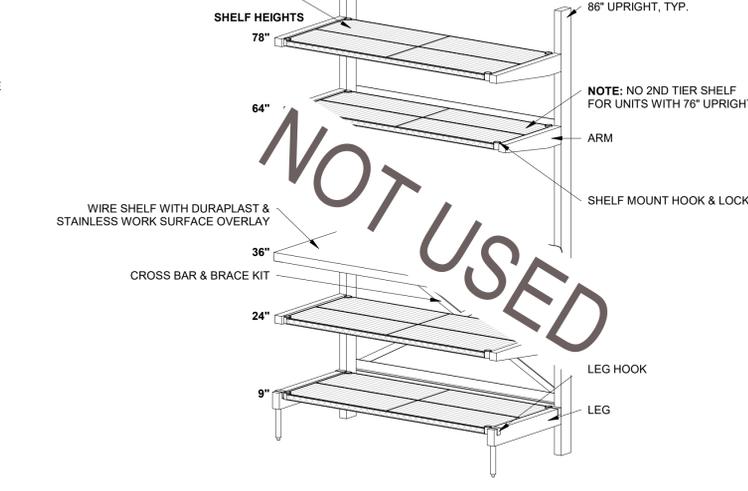
2 CANTILEVER SHELVING - VEGGIE PREP  
SCALE: N.T.S.



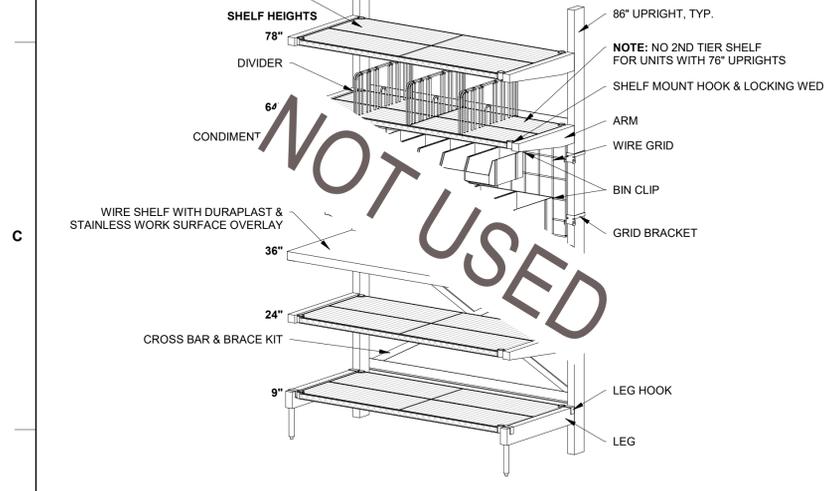
1 PLEXIGLASS PANELS  
SCALE: N.T.S.



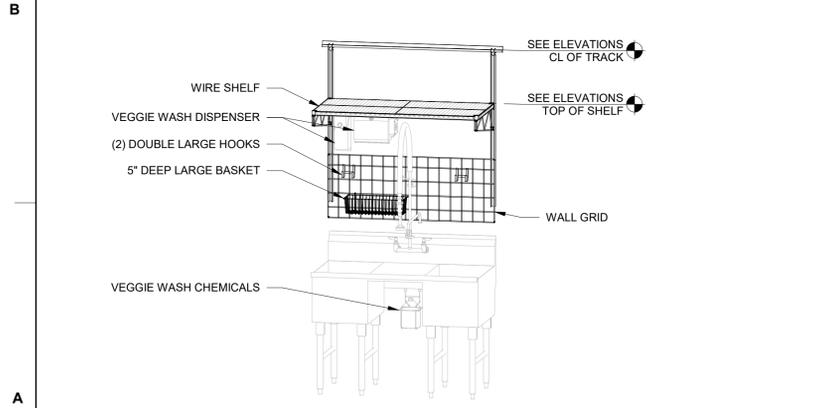
6 PULL-OUT SHELF  
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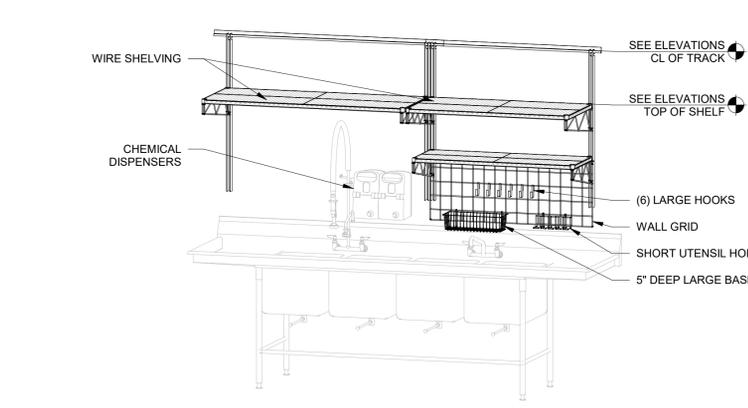
5 CANTILEVER SHELVING - DELIVERY WORKSTATION  
SCALE: N.T.S.



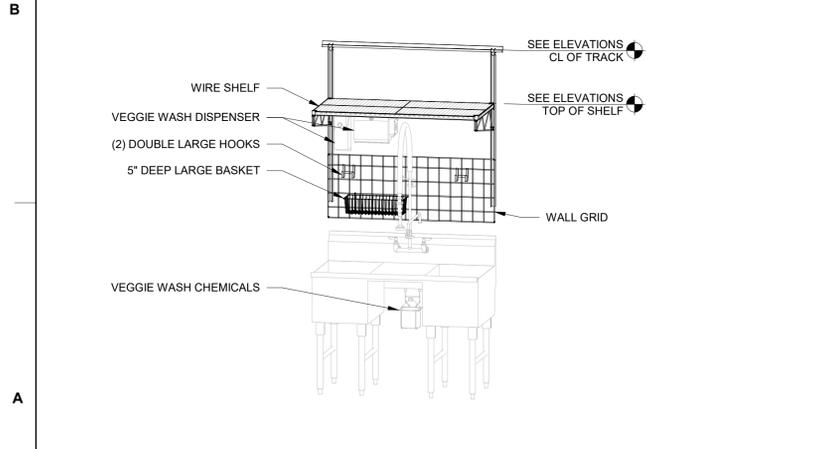
4 CANTILEVER SHELVING - CATERING WORKSTATION  
SCALE: N.T.S.



7 2-COMP VEGGIE PREP SINK SHELF & ACCESSORIES  
SCALE: N.T.S.



8 4 COMP UTILITY SINK SHELVES & ACCESSORIES  
SCALE: N.T.S.



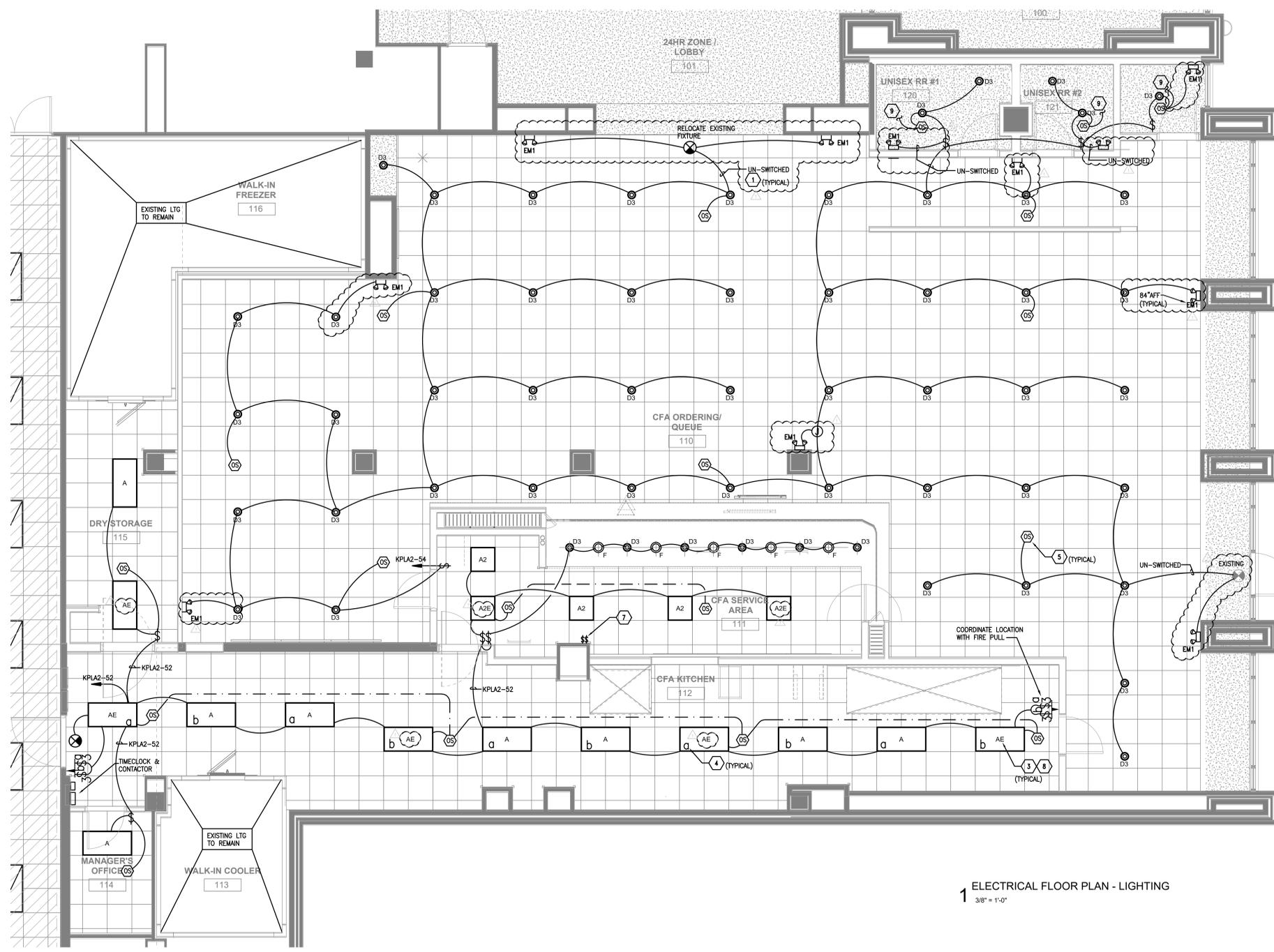
9 HAND SINK & ACCESSORIES  
SCALE: N.T.S.

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80307-K-904-KITCHEN DETAILS



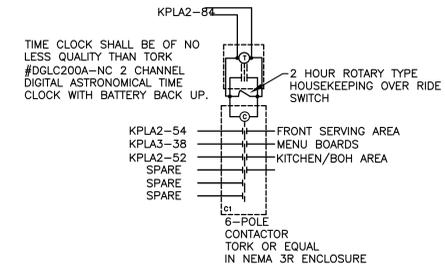




1 ELECTRICAL FLOOR PLAN - LIGHTING  
 3/8" = 1'-0"

- 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**

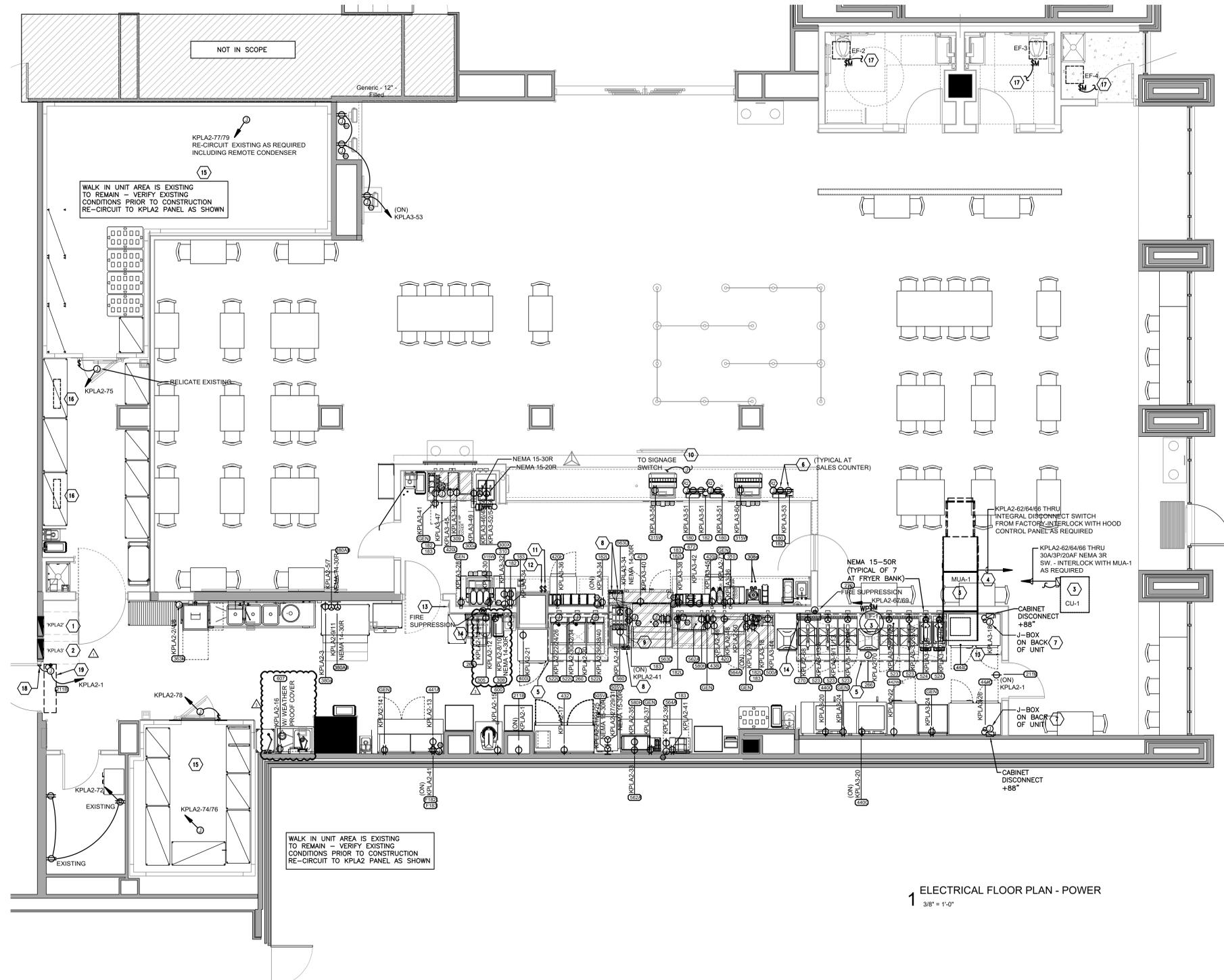
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV

**CONSTRUCTION DOCUMENTS**

CONSULTANT PROJECT # 22.MAY.021  
 PRINTED FOR CONSTRUCTION DOCUMENTS  
 DATE 2/28/2023  
 DRAWN BY RTM



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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 "KPLAS". 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 "DaisyChain" 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 SIGNAGE 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

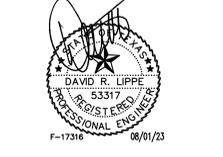
- PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY CARD INDICATING "AS INSTALLED" INFORMATION IN EACH PANEL BOARD ON INSIDE OF ACCESS DOOR IN A CLEAR PLASTIC PROTECTION SLEEVE AFTER CONSTRUCTION. HAND WRITTEN CARDS ARE NOT ACCEPTABLE.
- COORDINATE EXACT CONDUIT ROUTING W/ALL OTHER TRADES AND POINTS OF TERMINATION 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 & ARCHITECTS 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 SILENOID 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 WET SINKS 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 (1-2) STAINLESS TILE, (1-2) 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, PLIABLE COMPOUND TO PREVENT THE FORMING OF CONDENSATION PER NEC 300.7



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**LCV#80307**  
 BUILDING TYPE / USE: LCV  
 RELEASE: 20.11

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV
3	08/01/2023	ARCHITECTURE COORDINATION REVISION

CONSULTANT PROJECT # 22.MAY.021  
 PRINTED FOR CONSTRUCTION DOCUMENTS  
 DATE 2/28/2023  
 DRAWN BY RTM



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 SHEET  
 ELECTRICAL FLOOR PLAN - POWER

SHEET NUMBER  
**E2.00**

BIM 360/ITX 80307\_University of North Texas\_2021.12\_SAT780307\_University of North Texas\_RELOCATION\_ARC.rvt  
 2/7/2023 1:49:24 PM  
 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)
309a	1	COFFEE WARMER STAND	CRATHCO MODEL #CS-1D-1006														309a	
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"						350	SEE DETAILS PAGE K-901 FOR TYP
350a	1	WATER SINK	EAGLE MODEL #YCF-A-#50AN-#004-00														350a	WITH SIDE MOUNTING BRACKETS
380a	1	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	120	1	0.0096				5-15P							380a	INSTALLED ON WALL ABOVE ICE BIN
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 #00097098 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 #UH148-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	BK4 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 #L1	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 #YCF-A-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 SHELFING 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	GEN3 KIT (VEGGIE PREP)	INTERMETRO														1340V	METROSEAL GRAY - (1) 24"x36" SHELF + GEN3 COMPONENTS, (1) 36" GRID + VEGGIE PREP ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1341U	1	GEN3 KIT																



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. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
LIGHTING FIXTURES
SWITCHES, PANEL BOARDS & BREAKERS
WIRING DEVICES AND DEVICE PLATES
ENCLOSED SWITCHES
CONTACTORS & TIMELOCKS
B. 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.
C. 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
PART 1 - GENERAL
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 CONNECTIONS.
B. SEQUENCE ROUGH-IN OF ELECTRICAL CONNECTIONS TO COORDINATE WITH INSTALLATION AND START-UP OF EQUIPMENT FURNISHED UNDER OTHER SECTIONS.
PART 2 - PRODUCTS
1.01 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
1.01 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.
1.02 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.
1.03 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.
1.04 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.
1.05 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.
END OF SECTION

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.
4. INSTALLED IN WET LOCATIONS (INTERIOR AND EXTERIOR).
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. INSTALLED 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 BUSBARS AND JOINTS WITH 02 TYPE T, PT, PM FITS, 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 WRAP 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.
I. APPROVED COLORED TAPE IS ACCEPTABLE FOR FEEDERS USING LARGER THAN #6 CONDUCTORS.
1. 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.
END OF SECTION
SECTION 1620- 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. IN-GROUND CAST METAL BOX: INSIDE FLANGED, RECESSED OUTLET BOX WITH LUGS OR CONDUITORS ON EACH SIDE.
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 WITH LUGS OR CONDUITORS ON EACH SIDE.
1. MATERIAL: GALVANIZED CAST IRON.
2. COVER: NONSKID COVER WITH NEOPRENE GASKET AND STAINLESS STEEL COVER SCREWS.
D. 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 NEUTRAL MAINTAIN CONTINUITY OF EQUIPMENT GROUND 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 EXPOSED 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.
I. 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.
END OF SECTION

SECTION 1630- CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. PROVIDE 98% CONDUCTIVITY COPPER CONDUCTORS WITH NO. 12 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.
C. 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. GROUNDED CIRCUITS SHALL BE BONDING SYSTEM CONDUCTORS AND CONNECTIONS FOR TIGHTNESS AND PROPER INSTALLATION. END OF SECTION
1.02 RECEPTACLES
A. COLOR OF WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.
B. DEVICES: (LEVITON CATALOG NUMBERS ARE LISTED UNLESS NOTED OTHERWISE):
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: #5362G-ORANGE
4. ISOLATED GROUND SINGLE DEVICE: #5361G-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-RESISTANT 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 ABOVE.
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 UL LISTED GREEN GROUNDING 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 CONTINUITY OF THE GROUND.
B. 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 1670- GROUNDING AND BONDING
PART 1 - PRODUCTS
1.01 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 2 - EXECUTION
2.01 INSTALLATION
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 3 - EXECUTION
3.01 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 1640- 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 IPVOTRY DEVICE - #1221-21
B. 20 AMP PIVOT LIGHTS ILLUMINATED WITH LOAD ON - #1221-PL
2. DOUBLE POLE TOGGLE SWITCHES: 20 AMP IPVOTRY DEVICE - #1222-21
3. CROUSE-HINDS #JFD2129 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: #5362G-ORANGE
4. ISOLATED GROUND SINGLE DEVICE: #5361G-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-RESISTANT 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 ABOVE.
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 UL LISTED GREEN GROUNDING 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 CONTINUITY OF THE GROUND.
B. 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 1670- GROUNDING AND BONDING
PART 1 - PRODUCTS
1.01 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 2 - EXECUTION
2.01 INSTALLATION
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 3 - EXECUTION
3.01 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 1680- 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 TIE 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 1640- ENCLOSED SWITCHES
PART 1 - PRODUCTS
1.01 MANUFACTURERS
A. SQUARE D.
B. SIEMENS.
C. CUTLER-HAMMER.
1.02 NON-FUSED SWITCHES
A. 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.
1. INTERIOR DRY LOCATIONS: TYPE 1.
2. EXTERIOR LOCATIONS: TYPE 3R.
END OF SECTION
SECTION 1670- PANEL BOARDS
PART 1 - PRODUCTS
1.01 MANUFACTURERS
A. SQUARE D.
B. SIEMENS.
C. CUTLER-HAMMER.
D. FOR EXISTING BUILDINGS MATCH EXISTING MANUFACTURER.
1.02 PANEL BOARD FEATURES
A. PANEL BOARDS SHALL BE FULLY RATED & SHALL HAVE A MINIMUM SYMMETRICAL INTERRUPTING RATING EXCEED THE AVAILABLE SYMMETRICAL INTERRUPTING FAULT CURRENT INDICATED ON PANEL BOARD SCHEDULE.
B. BUS BARS SHALL BE COPPER.
C. PROVIDE FACTORY-INSTALLED COPPER GROUND BUS IN EACH PANEL BOARD AND MAIN CIRCUIT BREAKER LUGS.
D. PROVIDE ELECTRICALLY ISOLATED, FACTORY INSTALLED COPPER, NEUTRAL BUS IN EACH 3 PHASE, 4 WIRE PANEL BOARD.
E. IN ADDITION TO THE GROUND BUS REQUIRED BY PARAGRAPH 1.02B, PROVIDE FACTORY ELECTRICALLY ISOLATED, COPPER GROUND BUS IN EACH PANEL BOARD SERVING ISOLATED GROUND RECEPTACLES.
F. MAIN LUGS AND MAIN CIRCUIT BREAKER LUGS SHALL BE U.L. LISTED FOR USE WITH BOTH ALUMINUM AND COPPER WIRES.
G. PROVIDE PANEL BOARD DOORS WITH CHROME-PLATED LOCKS AND CATCHES. ALL LOCKS SHALL BE KEYED ALIKE. PROVIDE TWO KEYS FOR EACH LOCK. PANEL BOARD FRONTS SHALL HAVE ADJUSTABLE, INDICATING TRIP CLAMPS.
H. PROVIDE THERMAL-MAGNETIC CIRCUIT BREAKERS WHICH ARE RATED FOR 40 DEGREES C AMBIENT TEMPERATURE. BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK TYPE TRIP WITH TRIP INDICATION SHOWN BY HANDLE POSITION OTHER THAN ON OR OFF. MULTI-POLE BREAKERS SHALL HAVE A FACTORY APPROVED COMMON TRIP HANDLE. BENT WIRE THRU BREAKER HANDLES IS NOT ALLOWED. "RANDOM TYPE" CIRCUIT BREAKERS SHALL NOT BE PERMITTED.
I. PROVIDE TYPED DIRECTORY CARD WITH CLEAR HOLDER FOR EACH PANEL BOARD. HAND WRITTEN CARDS ARE NOT ALLOWED.
PART 2 - EXECUTION
2.01 INSTALLATION
A. PANEL BOARDS SHALL BE MOUNTED AT HEIGHT ABOVE FINISHED FLOOR SUCH THAT THE HEIGHT OF THE TOP-MOST BREAKER IN THE PANEL BOARD IS NOT MORE THAN 6 FT-6 INCHES ABOVE FINISHED FLOOR IN ITS HIGHEST POSITION.
B. WHERE MULTIPLE PANEL BOARDS ARE INSTALLED IN WALLS IN COMMON AREAS OF BUILDINGS, THE PANEL BOARDS SHALL BE INSTALLED WITH THE TOP OF ALL PANEL BOARDS AT THE SAME HEIGHT.
C. PROVIDE BLANK FILLER PLATES OVER ALL UNUSED SPACES IN PANEL BOARDS.
D. TYPED DIRECTORY CARDS SHALL INDICATE DEVICES BEING SERVED AND THE SPACE NAME WHERE THE DEVICE IS LOCATED.
E. PROVIDE MINIMUM OF (1)ONE 3/4" EMPTY CONDUIT WITH PULL WIRE, I.D. TAG AND GROMMET ENDS FOR EVERY 3 POLES OF SPARE BREAKER OR SPACE IN THE PANEL BOARD. STUB CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. LABEL CONDUIT AS SPARE AT PANEL BOARD AND TERMINATION POINT.
END OF SECTION

SECTION 1650- LIGHTING FIXTURES

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS
A. AS INDICATED ON LIGHTING FIXTURE SCHEDULE.
B. BALLASTS
1. ADVANCE ELECTRONIC BALLASTS OR APPROVED EQUAL.
C. LAMPS
1. OSRAM-SYLVANIA
2. NORTH AMERICAN PHILIPS
3. GENERAL ELECTRIC
D. TERMINATE EACH CONDUIT STUB-UP OR TERMINATION WITH NYLON INSULATED BUSHINGS. CONTRACTOR SHALL CONTACT THE OWNER AND VENDOR AND SCHEDULE THE WORK.
1.02 FIXTURE REQUIREMENTS
A. PROVIDE CLASS "7" UL LABELED, HPF, ENERGY SAVING BALLASTS IN ALL FLUORESCENT LIGHTING FIXTURES. RECESSED FLUORESCENT LIGHTING FIXTURES BALLASTS SHALL BE PROVIDED WITH INTEGRAL THERMAL PROTECTION.
B. PROVIDE RAPID START LAMPS FOR ALL FLUORESCENT FIXTURES.
C. ALL LAMPS AND BALLASTS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ENERGY POLICY.
D. ALL COMPONENTS OF RECESSED FIXTURES SHALL BE ACCESSIBLE WITHOUT DISTURBING FIXTURE IN OR ON CEILING.
1.04 EMERGENCY LIGHTING UNITS
A. BATTERIES SHALL SUPPLY EMERGENCY POWER FOR LIGHTING WITH MINIMUM OPERATING TIME OF 1-1/2 HOURS.
B. EMERGENCY LIGHTING SHALL BE AUTOMATICALLY OPERATIONAL UPON NORMAL POWER FAILURE. FIXTURES SHALL AUTOMATICALLY RETURN TO NON-EMERGENCY MODE UPON RESTORATION OF NORMAL POWER AND BEGIN RE-CHARGING BATTERY.
PART 2 - PRODUCTS
2.01 MATERIALS
A. LIGHTING FIXTURES SHALL BE STRUCTURALLY SUPPORTED. FLUORESCENT FIXTURES MOUNTED IN DROPPED CEILING SHALL BE SUPPORTED BY AND ATTACHED TO CEILING SYSTEM AS REQUIRED BY NEC 410-16(C). IN ADDITION, OR BRACE EXPOSED FIXTURES SHALL BE SUPPORTED AT TWO OPPOSITE CORNERS TO BUILDING STRUCTURE.
B. RECESSED FIXTURES IN DROPPED CEILING AREAS SHALL BE CONNECTED TO POWER SOURCE USING FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL CONTAIN A SEPARATE INSULATED GREEN NO. 12 COPPER GROUND WIRE. FLEXIBLE CONDUIT SHALL BE CONNECTED TO JUNCTION BOX AND FIXTURE. GREEN GROUND WIRE SHALL PROVIDE GROUND CONTINUITY BETWEEN CONDUIT SYSTEM AND FIXTURE. GROUNDING CONDUCTORS SHALL BE PERMANENTLY AND MECHANICALLY CONNECTED BETWEEN FIXTURE AND CONDUIT SYSTEM SO AS TO BE ELECTRICALLY CONTINUOUS.
C. FIXTURES SURFACE MOUNTED ON EXPOSED TIE BAR CEILING SHALL USE GRIP CLAMPS ON TIE BARS.
D. MAINTAIN THE INTERIOR OF ENCLOSURES ON ENCLOSED AND GASKET FIXTURES. MINIMIZE THE NUMBER OF ENCLOSURE PENETRATIONS AND MAKE SUCH PENETRATIONS WATER AND DUST TIGHT WITH APPROPRIATE GASKETS AND FITTINGS.
E. INSTALL ACCESSORIES FURNISHED WITH EACH FIXTURE.
F. SURFACE AND RECESSED FIXTURES ON OR IN PLASTERED OR DRYWALL CEILING SHALL BE SUPPORTED BY SUPPORT CHANNELS. SUPPORT CHANNELS SHALL SPAN ACROSS MAIN SUPPORT CHANNELS AND SHALL NOT DEPEND UPON CEILING FOR SUPPORT.
3.02 FIELD QUALITY CONTROL
A. RE-LAMP FIXTURES WITH NEW LAMPS THAT HAVE FAILED LAMPS AT SUBSTANTIAL COMPLETION.
END OF SECTION
SECTION 1670- FIRE ALARM SYSTEMS
PART 1 - GENERAL
1.01 WORK INCLUDED
A. FURNISH AND INSTALL RACEWAY SYSTEM FOR FIRE ALARM SYSTEMS CONSISTING OF CONDUITS, JUNCTION BOXES AND OUTLET BOXES. CABLE, EQUIPMENT, ETC. INSTALLATION OF THE FIRE ALARM SYSTEM WILL BE PROVIDED BY THE OWNER'S SYSTEM VENDOR.
PART 2 - PRODUCTS
2.01 MATERIALS
A. PROVIDE 4"-11/16" SQUARE BOXES, WITH PLASTER RINGS.
B. MINIMUM CONDUIT SIZE SHALL BE 3/4".
PART 3 - EXECUTION
3.01 INSTALLATION
A. FURNISH AND INSTALL CONDUITS, JUNCTION BOXES AND OUTLET BOXES.
B. LEAVE ONE #10 EQUIVALENT NYLON PULL WIRE IN EACH SYSTEM CONDUIT.
C. PROVIDE A COMPLETE RACEWAY SYSTEM IN ACCORDANCE WITH FIRE ALARM SYSTEM VENDOR REQUIREMENTS. FIRE ALARM SYSTEM VENDOR SHALL REVIEW THE DRAWINGS. CONTRACTOR SHALL PROVIDE FOR ANY ADDITIONAL OR VARYING REQUIREMENTS.
END OF SECTION
SECTION 1674- TELEPHONE SERVICE
PART 1 - GENERAL
1.01 WORK INCLUDED
A. FURNISH AND INSTALL TELEPHONE SYSTEM CONSISTING OF EMPTY CONDUITS, JUNCTION BOXES, OUTLET BOXES, DEVICE PLATES, ETC. AS SPECIFIED AND SHOWN ON OWNER SELECTED VENDOR WIRING SCHEMATICS. CABLE, EQUIPMENT, AND INSTALLATION OF THE INTERIOR SYSTEM WILL BE PROVIDED BY THE OWNER'S SYSTEM VENDOR.
B. PROVIDE UNDERGROUND PVC, SCHEDULE 40, SERVICE CONDUIT AS REQUIRED BY PLANS.
C. TELEPHONE UTILITY COMPANY WILL PROVIDE SERVICE ENTRANCE CABLE.
D. INTERIOR TELEPHONE SYSTEM WILL BE FURNISHED BY OWNER'S VENDOR.
E. SPECIAL CAB BOXES WILL BE FURNISHED BY THE OWNER'S VENDOR.
PART 2 - PRODUCTS
2.01 MATERIALS
A. PROVIDE 4"-11/16" SQUARE BOXES, WITH PLASTER RINGS. PROVIDE DEVICE PLATES FOR TELEPHONE OUTLETS TO MATCH THOSE SPECIFIED IN SECTION 16141. PROVIDE SEPARATE CONDUIT WITH GROMMET END, PULL WIRE AND I.D. TAG TO ELL 6" ABOVE NEAREST ACCESSIBLE CEILING SPACE FROM EACH OUTLET.
B. MINIMUM CONDUIT SIZE SHALL BE 3/4".
C. PROVIDE LIGHTNING ARRESTER FOR TELEPHONE SERVICE ENTRANCE AT MAIN TELEPHONE BACKBOARD IN ACCORDANCE WITH UL56A PARAGRAPH 11.2 AND NFPA 780.
D. CABLE SHALL BE IN CONDUIT WHERE INSTALLED IN WALLS OR ABOVE INACCESSIBLE CEILING SPACES.
PART 3 - EXECUTION
3.01 INSTALLATION
A. LEAVE ONE #10 EQUIVALENT NYLON PULL WIRE WITH I.D. TAG IN EACH TELEPHONE CONDUIT.
B. PROVIDE TRENCHING, BACKFILLING, ETC. FOR INSTALLATION OF SERVICE ENTRANCE CONDUIT IN ACCORDANCE WITH OTHER DIVISIONS, PLANS, AND TELEPHONE UTILITY REQUIREMENTS. PROVIDE PULL WIRE IN EMPTY CONDUIT.
END OF SECTION

SECTION 1670- SPECIAL SYSTEMS

PART 1 - GENERAL

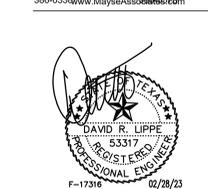
1.01 WORK INCLUDED
A. FURNISH AND INSTALL RACEWAY SYSTEM FOR MUSIC/COMMUNICATIONS SECURITY, CATV, CCTV AND OTHER OWNER FURNISHED SYSTEMS, CONSISTING OF EMPTY CONDUITS, JUNCTION BOXES, OUTLET BOXES, AND DEVICE PLATES, ETC. AS SPECIFIED AND SHOWN ON OWNER SELECTED VENDOR WIRING SCHEMATICS. CABLE, EQUIPMENT, AND INSTALLATION OF THE INTERIOR SYSTEM WILL BE PROVIDED BY THE OWNER'S SYSTEM VENDOR.
B. INTERIOR SYSTEM EQUIPMENT WILL BE FURNISHED BY OWNER'S VENDOR.
PART 2 - PRODUCTS
2.01 MATERIALS
A. PROVIDE 4"-11/16" SQUARE BOXES, WITH PLASTER RINGS.
B. MINIMUM CONDUIT SIZE SHALL BE 3/4".
PART 3 - EXECUTION
3.01 INSTALLATION
A. FURNISH AND INSTALL CONDUITS, JUNCTION BOXES, OUTLET BOXES AND EQUIPMENT.
B. LEAVE ONE #10 EQUIVALENT NYLON PULL WIRE IN EACH SYSTEM CONDUIT.
C. PROVIDE A COMPLETE RACEWAY SYSTEM IN ACCORDANCE WITH INTERIOR SYSTEM VENDOR REQUIREMENTS. INTERIOR SYSTEM VENDOR SHALL REVIEW THE DRAWINGS. CONTRACTOR SHALL PROVIDE FOR ANY ADDITIONAL OR VARYING REQUIREMENTS.
D. FINAL CONNECTIONS AND TESTING OF SYSTEMS WILL BE PROVIDED BY THE SYSTEM VENDOR. CONTRACTOR SHALL CONTACT THE OWNER'S VENDOR AND SCHEDULE THE WORK SO AS TO COMPLETE SYSTEM INSTALLATION AND TESTING PRIOR TO OCCUPANCY OF THE FACILITY.
E. TERMINATE EACH CONDUIT STUB-UP OR TERMINATION WITH NYLON INSULATED BUSHING.
END OF SECTION
SECTION 1690- MECHANICAL EQUIPMENT CONTROLS
PART 1 - PRODUCTS
1.01 CONTROL WIRING
A. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED IN CONDUIT WITH J-BOXES UNDER DIVISION 16. CONTROL COMPONENTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY DIVISION 15.
PART 2 - EXECUTION
2.01 INSTALLATION
A. WHERE VOLTAGE CHARACTERISTICS DIFFER, PROVIDE TRANSFORMERS, BREAKERS OR SWITCHING IN ORDER TO CONNECT ALL EQUIPMENT TO ITS RATED VOLTAGE.
B. REVIEW MECHANICAL SPECIFICATIONS AND DRAWINGS PRIOR TO CONSTRUCTION OF CONTROL WIRING FOR MECHANICAL CONTROLS, STARTERS, ETC.
SPECIAL NOTES:
1. FLOOR BOXES SHALL BE WIREMOLD 880 SERIES DEEP BOX WITH NO. 6 GANG AS REQUIRED. PROVIDE CAST IRON BOX WHEN IT IS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE BRASS COVER PLATES AND ALL ACCESSORIES AS REQUIRED TO COMPLETE THE INSTALLATION.
2. TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT.
3. CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILING OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL TO BUILDINGS LINES AND TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, DIFFUSERS, STRUCTURE, ETC.
4. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS. SECURELY FASTENED IN PLACE WITH STRIPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. TEAM CONDUIT ENDS BEFORE INSULATION AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN. TERMINALS ON SWITCHES AND RECEPTACLES SHALL NOT BE USED TO "FEED-THRU" TO THE NEXT SWITCH OR RECEPTACLE. THE DISCONNECTING OR REMOVAL OF A DEVICE FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.
5. RECESSED FIXTURES SHALL BE THERMALLY PROTECTED OR UL APPROVED FOR INSULATED CEILING AS APPLICABLE.
6. ALL LAY IN TYPE LIGHTING FIXTURES INSTALLED IN SUSPENDED CEILING SHALL BE SUPPORTED FROM THE UNDERSIDE OF THE ROOF STRUCTURE, INDEPENDENT OF THE CEILING SYSTEM, DUCTWORK AND PIPING, AND IN ACCORDANCE WITH ASTM C-636 SECTION 2.7.
7. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURED AND SUPPORTED IN ALL ROOF/CEILING AND FLOOR/CEILING ASSEMBLIES REQUIRED IN NEC SECTION 300.11.
8. TENANT SIGNAGE ELECTRICAL SYSTEMS TO BE INSTALLED AS REQUIRED IN NEC ARTICLE 600.
9. CLASS 1, CLASS 2, AND CLASS 3 REMOTE CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS SHALL BE INSTALLED AS REQUIRED IN NEC ARTICLE 725.
10. FIRE ALARM AND COMMUNICATION SYSTEM CIRCUITS SHALL BE INSTALLED AS REQUIRED IN NEC ARTICLE 760 AND 800 RESPECTIVELY.
11. ELECTRICAL SYSTEM COMPONENTS AND OVER CURRENT DEVICES SHALL BE PROVIDED TO MEET THE REQUIREMENTS OF NEC SECTIONS 110.9 AND 110.10
12. COMMUNICATIONS WIRES AND CABLES WITHIN THE BUILDING SHALL BE INSTALLED AS REQUIRED IN NEC ARTICLE 800 SUBPART 1.
13. AIR CONDITIONING EQUIPMENT AND RELATED CIRCUIT COMPONENTS TO BE INSTALLED AS REQUIRED IN NEC ARTICLES 110 AND 440 & AHJ.
14. INSTALLATION OF ELECTRICAL EQUIPMENT AND CIRCUITS SHALL COMPLY WITH NEC ARTICLE 700.
END OF SECTION

CONTRACTOR VERIFICATION RESPONSIBILITIES
CONTRACTOR SHALL REPORT ANY DISCREPANCIES, OMISSIONS OR INCONSISTENCIES ON THE DRAWINGS TO THE ARCHITECT FOR VERIFICATION BEFORE STARTING CONSTRUCTION. OWNER AND ARCHITECT ARE NOT RESPONSIBLE FOR ANY COSTS ARISING FROM SUCH ERRORS IN CONSTRUCTION WHERE SUCH DISCREPANCIES, OMISSIONS OR INCONSISTENCIES HAVE NOT BEEN PROPERLY REPORTED IN A TIMELY MANNER.



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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

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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 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 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:

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3. 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 ROUGH-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. Rough-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

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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, form 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

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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 up stream 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.

CONSULTANT PROJECT # 22-MAY-012

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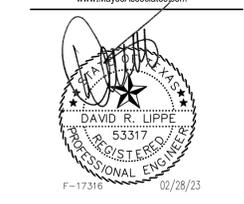
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SHEET MECHANICAL SPECIFICATIONS

SHEET NUMBER

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Dallas, Texas 75254  
rtmec.com | 972.387.3500



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

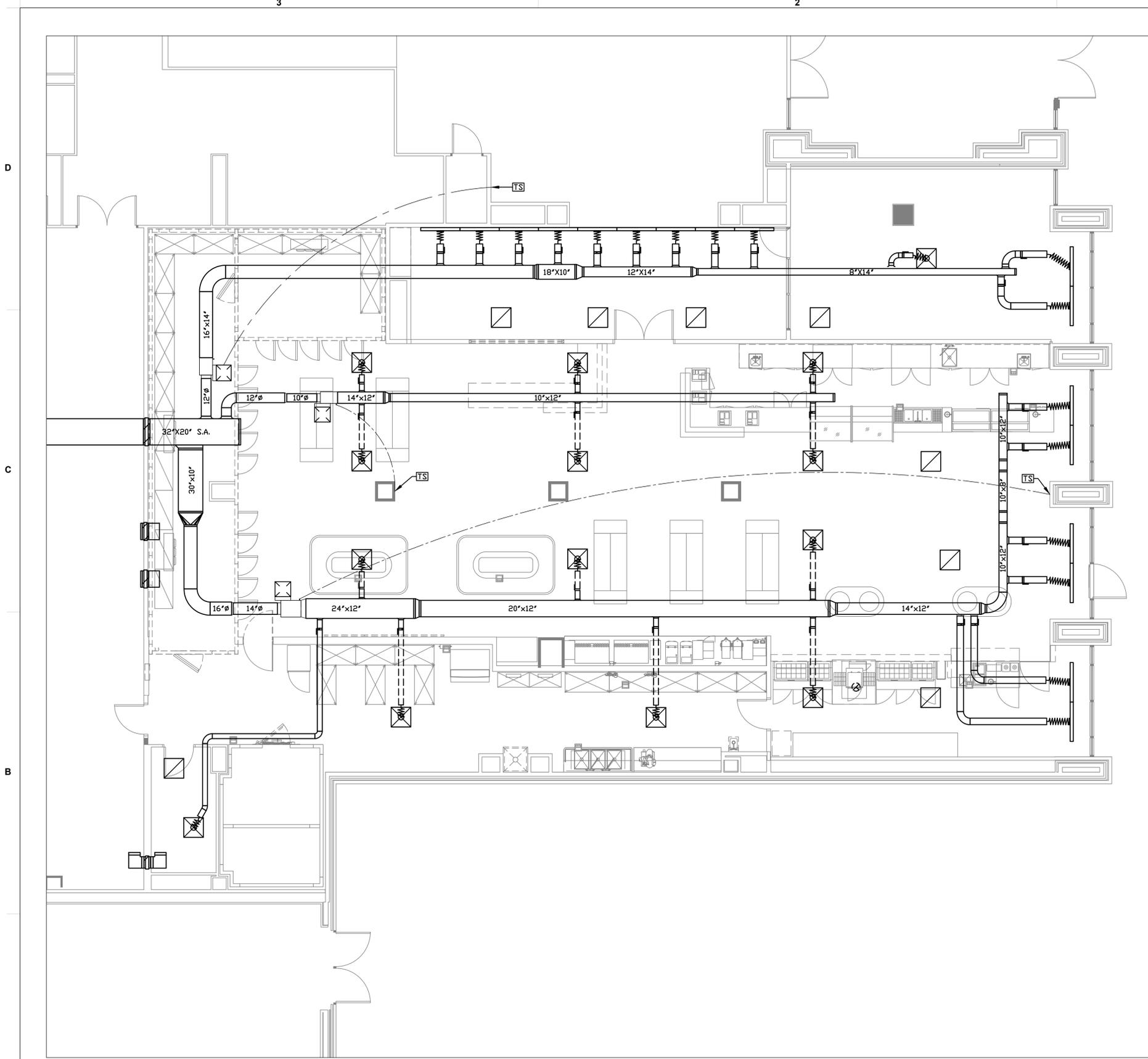
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Artm engineering consultants

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M0.00

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 05197-A-201-FLOOR PLAN



**1 MECHANICAL DEMO FLOOR PLAN**  
 3/16" = 1'-0"



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**CHICK-FIL-A**  
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 DENTON, TX 76203

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

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

**CONSTRUCTION DOCUMENTS**

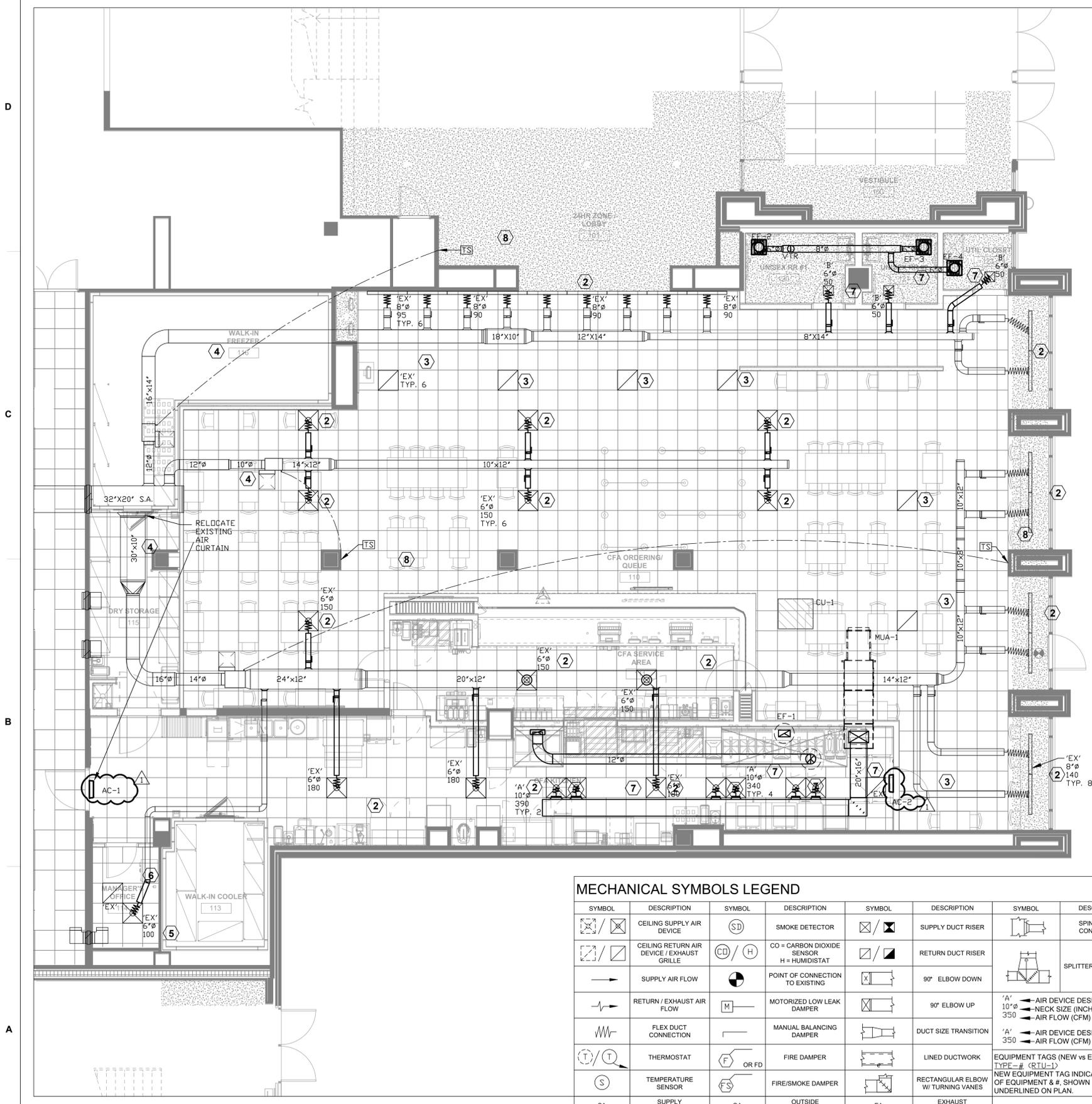
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SHEET  
 MECHANICAL DEMO FLOOR PLAN

SHEET NUMBER

**M1.00**



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 SPLICED CURB, 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

**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

CONSULTANT PROJECT # 22-MAY-012  
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 DATE 2/28/2023  
 DRAWN BY RTM

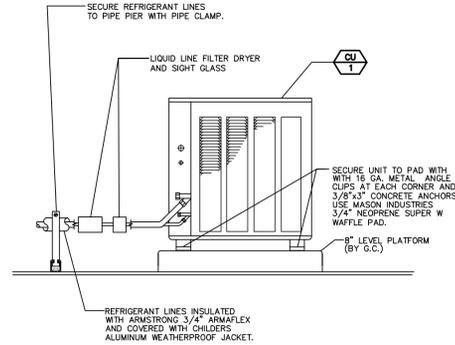
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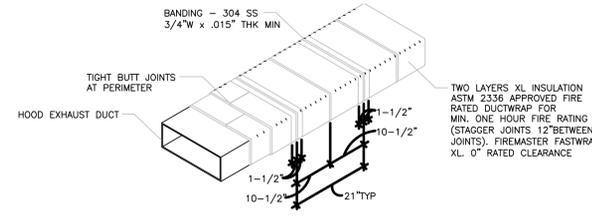
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SHEET NUMBER  
**M2.00**



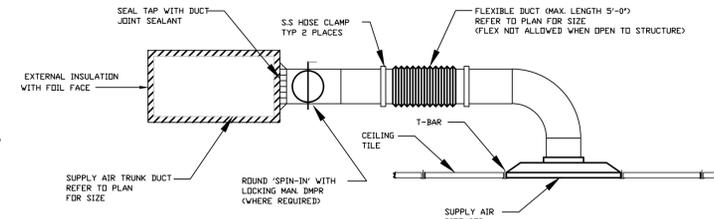


**01 CONDENSING UNIT DETAIL**  
SCALE: NOT TO SCALE



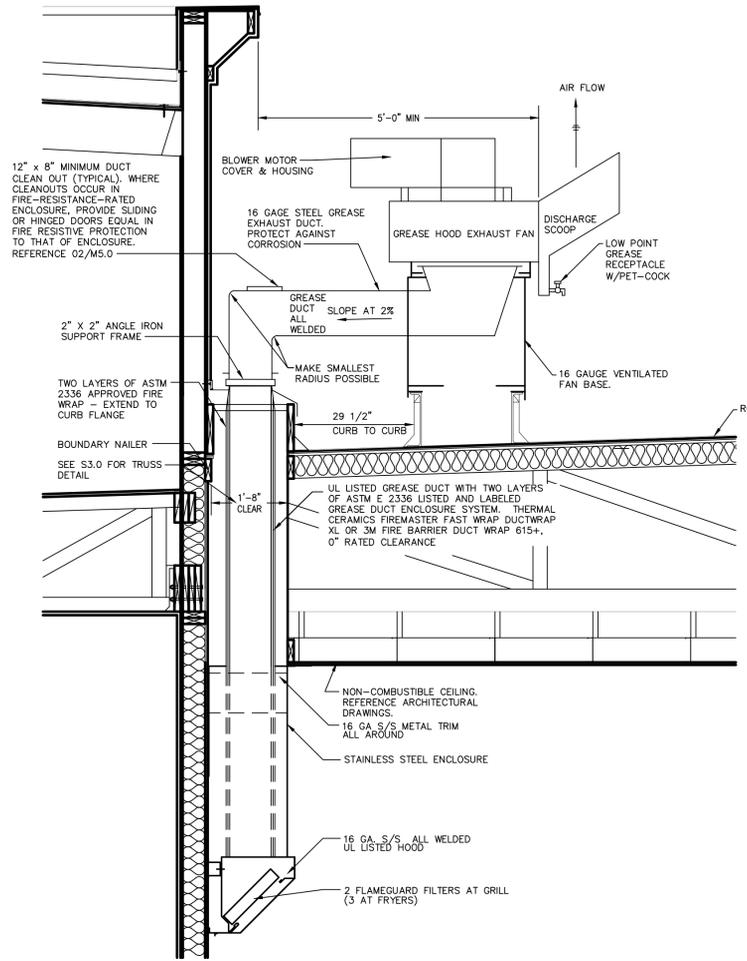
NOTE:  
 1. WRAP SUPPORT HANGER SYSTEM INDEPENDENTLY WITH SAME THICKNESS FOR EXTERNAL FIRE THREAT CONDITIONS.  
 2. WRAP GREASE DUCT CONTINUOUS AS SHOWN BELOW FOR ENTIRE LENGTH FROM KITCHEN HOOD CONNECTION TO EXHAUST FAN ON ROOF.  
 3. BANDING REQUIREMENTS: USE 304 STAINLESS STEEL FOR MIN. ONE HOUR RATING

**02 KITCHEN EXHAUST DUCT SYSTEM**  
SCALE: NOT TO SCALE

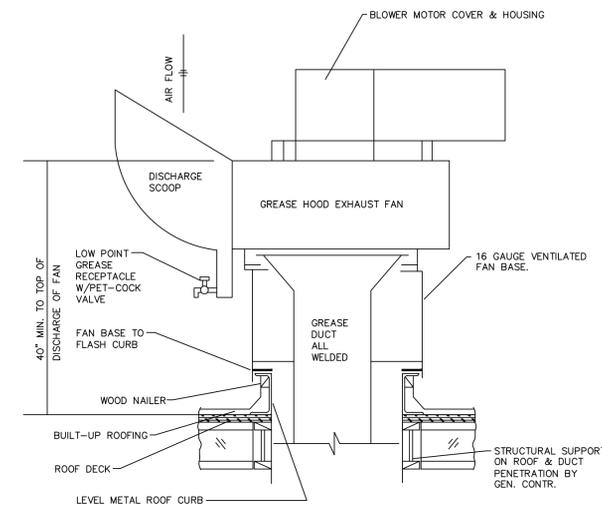


NOTE:  
 1. ALL PLENUMS AND DUCTS MUST BE SUPPORTED FROM STRUCTURE PER LOCAL CODE STANDARDS AND SMACNA STANDARDS.  
 2. ALL DUCT MUST BE SEALED FOLLOWING TAPE AND MASTIC MANUFACTURER'S GUIDELINES.  
 3. ALL FLEX DUCT SHALL BE INSTALLED FOLLOWING MANUFACTURER'S GUIDELINES. FLEX DUCTS SHALL BE EQUAL TO "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  
 10/19/2022 10:59:42 AM  
 05197-A-201-FLOOR PLAN

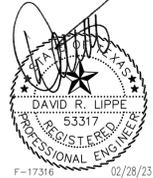


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**CHICK-FIL-A**  
 U. OF NORTH TEXAS  
 STUDENT UNION  
 1155 UNION CIRCLE  
 DENTON, TX 76203

**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

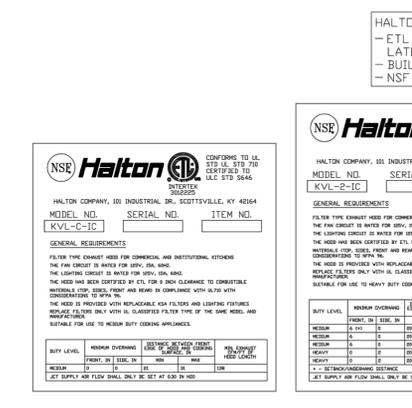
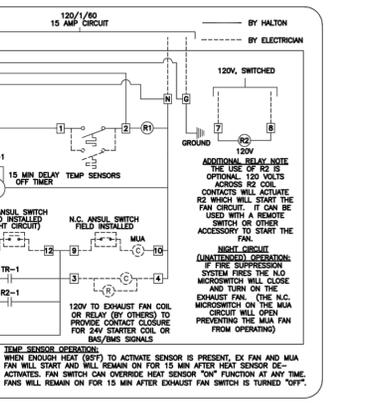
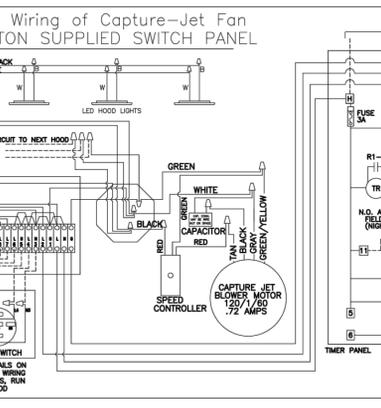
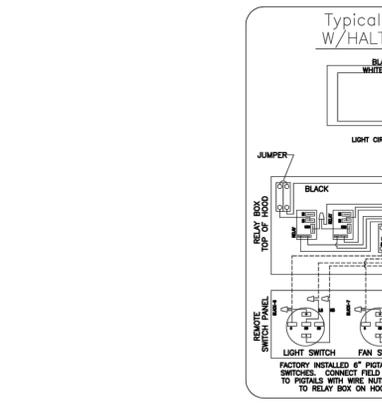
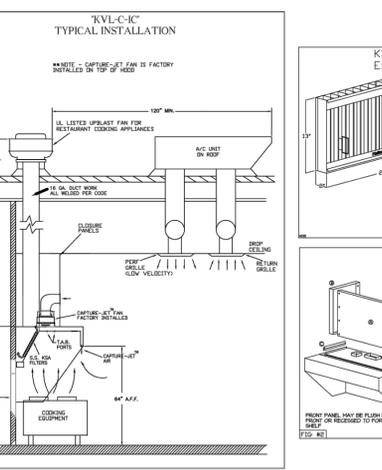
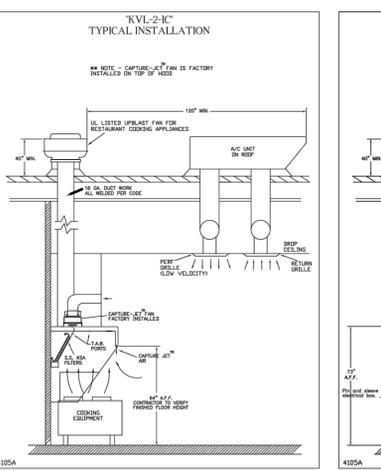
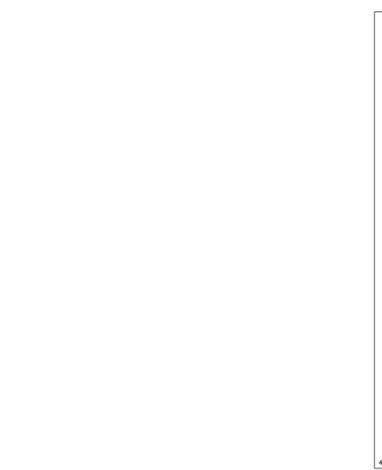
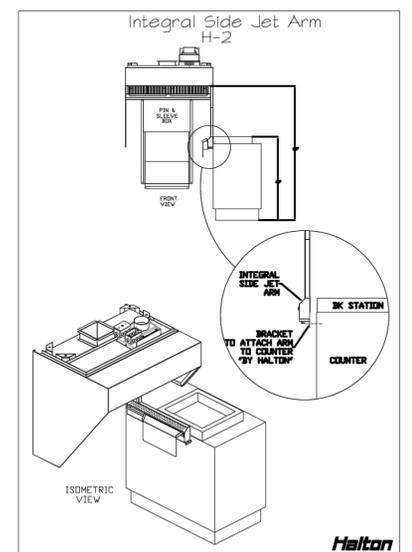
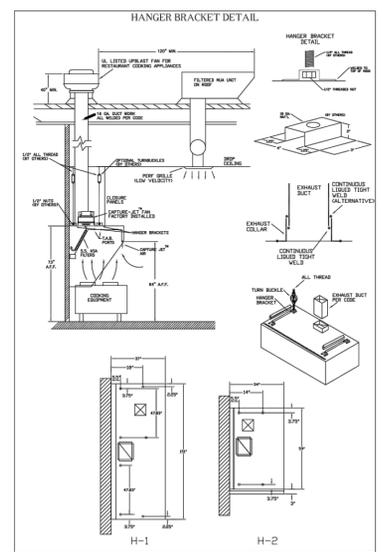
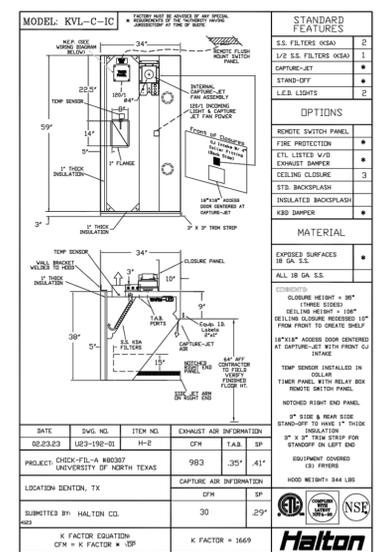
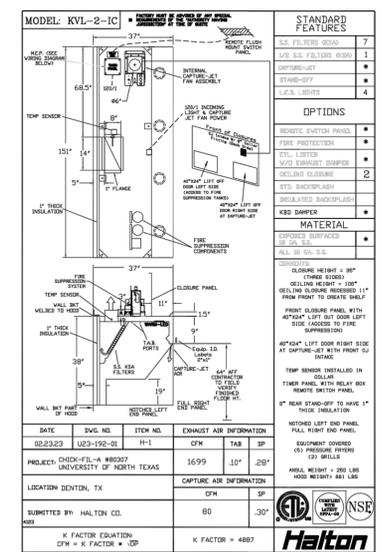


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MECHANICAL SPECIFICATIONS

SHEET NUMBER

**M3.00**



REV	DATE	DESCRIPTION	BY
1	02/23/23	ISSUE FOR CONSTRUCTION	SKM
2	02/23/23	REVISION	SKM
3	02/23/23	REVISION	SKM
4	02/23/23	REVISION	SKM
5	02/23/23	REVISION	SKM
6	02/23/23	REVISION	SKM
7	02/23/23	REVISION	SKM
8	02/23/23	REVISION	SKM
9	02/23/23	REVISION	SKM
10	02/23/23	REVISION	SKM

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 WEBSITE: www.halton.com  
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 1-800-864-0301  
 PROJECT: CHICK-FIL-A #80307  
 UNIVERSITY OF NORTH TEXAS  
 DENTON, TX  
 DRAWN BY: SKM  
 DATE: 02/23/23  
 SCALE: NOT TO SCALE  
 DRAWING NO.: U23-192-01  
 SHEET NO.: H-1.1



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CHICK-FIL-A  
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 STUDENT UNION  
 1155 UNION CIRCLE  
 DENTON, TX 76203

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

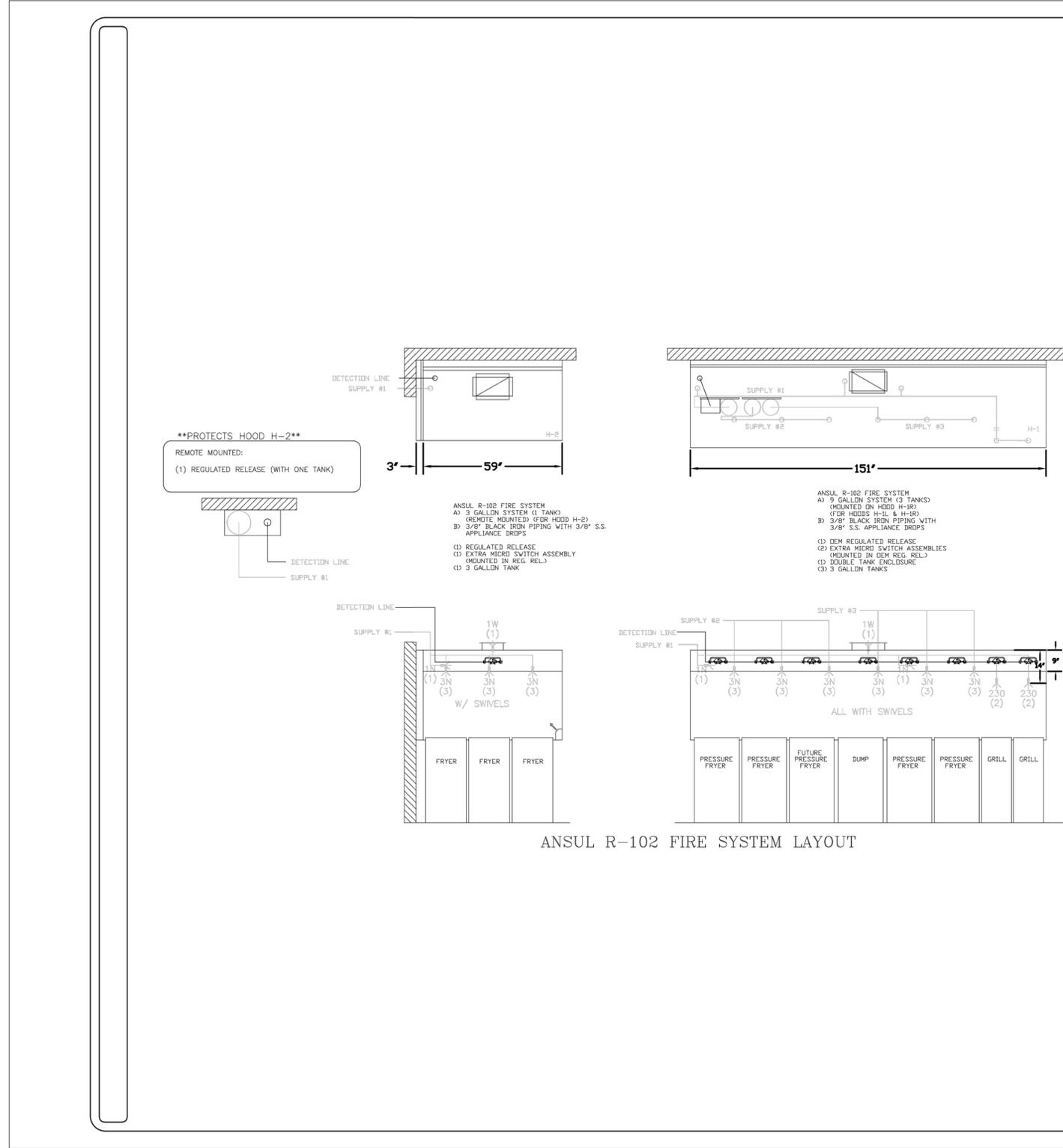
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/23/23	ISSUE FOR CONSTRUCTION
2	02/23/23	REVISION
3	02/23/23	REVISION
4	02/23/23	REVISION
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7	02/23/23	REVISION
8	02/23/23	REVISION
9	02/23/23	REVISION
10	02/23/23	REVISION

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 SHEET  
 MECHANICAL HOOD PACKAGE  
 SHEET NUMBER  
**M4.00**



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ANSUL R-102 FIRE SYSTEM LAYOUT

ANSUL

ISO VIEW W/BACKET FIRE EXTINGUISHER

	ANSUL
13051 5 LBS ABC MODEL AA05	QTY _____
13052 10 LBS ABC MODEL AA10S	QTY _____
13053 6 LTR CLASS K-GUARD K01-3	QTY _____

SUPPLIED BY HALTON

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

ANSUL R-102 FIRE SYSTEM NOTES  
 THREE TANK SYSTEM MOUNTED ON TOP OF (H-1R)  
 MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES  
 TWO TANK SYSTEM REMOTE MOUNTED  
 MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	2	DUCT NOZZLES	2
1N	10022	3	PLENUM NOZZLES	3
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	9	APPLIANCE NOZZLES	27
<b>TOTAL FLOW POINTS</b>				<b>36</b>
ITEM	QTY	DESCRIPTION		
#200	10035	7	SERIES DETECTORS W/ FUSIBLE LINKS	
#201	11973	2	TERMINAL DETECTORS W/ FUSIBLE LINKS	
#202	10046	1	DEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#202	10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#203	10333	4	3 GALLON TANKS	
#205	10047	1	DOUBLE TANK ENCLOSURE	
#206	10040	2	REMOTE PULL STATION	
#207	10064	2	SINGLE TANK NITROGEN CARTRIDGE	
#208	10065	2	DOUBLE TANK NITROGEN CARTRIDGE	
#209	11128	4	3 GALLON ANSULEX CONTAINER	

ANSUL R-102 FIRE SYSTEM  
 UL LISTED PER STD LATEST STD 300  
 1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES  
 2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER  
 3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THIS DRAWING MUST BE REPRODUCED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS & THE LOCATION AND TYPE OF COOKING EQUIPMENT. NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCURRING, A RECALCULATION OF FLOW POINTS MAY BE REQUIRED.

REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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PROJECT: CHICK-FIL-A #80307 UNIVERSITY OF NORTH TEXAS  
 LOCATION: DENTON, TX  
 DRAWN BY: SKM  
 DATE: 02.23.23  
 SCALE: NOT TO SCALE

Halton

DRAWING No.: U23-192-02  
 SHEET No.: H-1.2



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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

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22-MAY-012

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DATE	2/28/2023
DRAWN BY	RTM

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MECHANICAL HOOD PACKAGE

SHEET NUMBER

M4.01

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
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

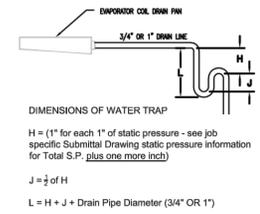
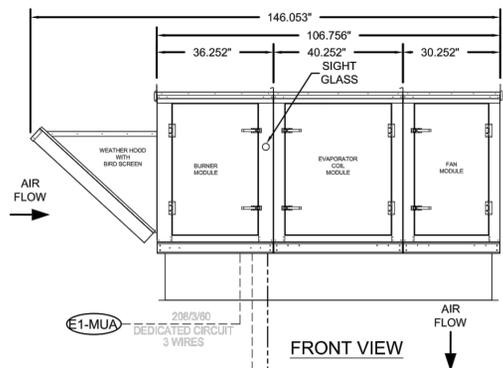
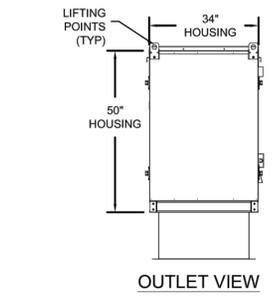
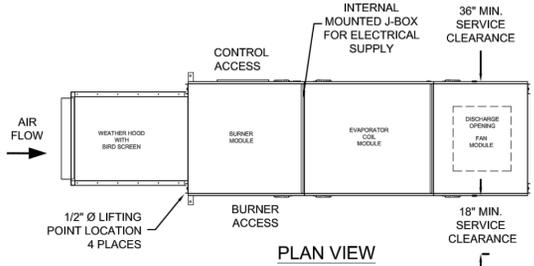
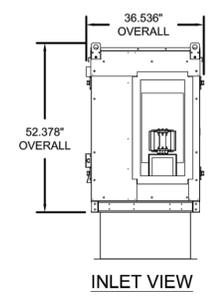
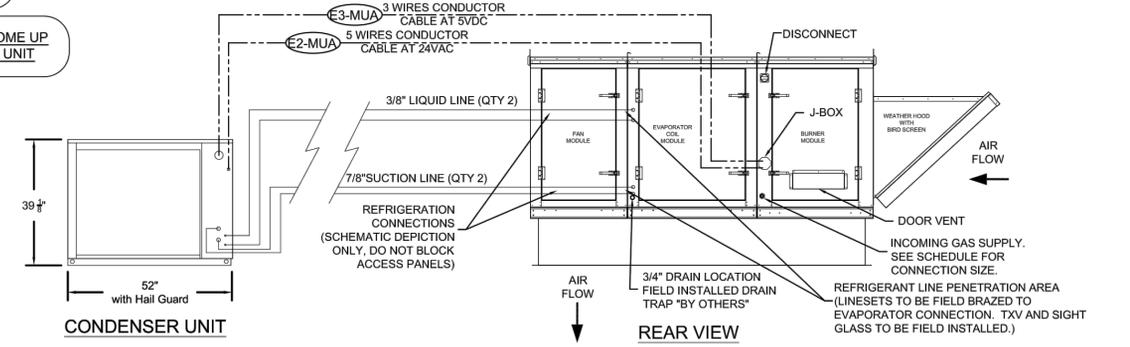
  

COOLING INFORMATION	
Cooling Coil Entering DB Temp.	101.7°F
Cooling Coil Entering WB Temp.	75°F
Off Coil DB Temp.	68.9°F
Off Coil WB Temp.	65.5°F
Cooling Coil Total Capacity	75.9 MBH
Cooling Coil Sensible Capacity	75.9 MBH
Cooling Coil Latent Capacity	0 MBH

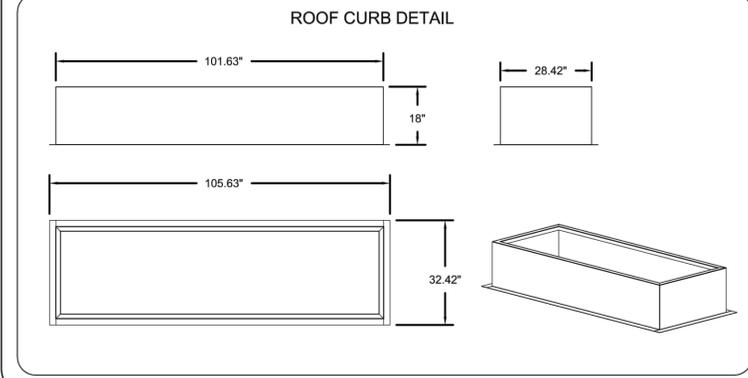
UNIT FEATURES	
Drive Package:	<ul style="list-style-type: none"> <li>✓ Belt Drive Fan (Cometri ATLI)</li> <li>Direct Drive Plenum Fan (Cometri ANPA)</li> </ul>
Insulation:	<ul style="list-style-type: none"> <li>✓ 1" Duct Board</li> <li>No Insulation</li> </ul>
Unit Mounted D.A.T. Controls (temperature)	
Remote start/stop Controls (fan)	
Isolators:	<ul style="list-style-type: none"> <li>✓ Neoprene</li> <li>Seismic</li> </ul>
Intake Damper:	<ul style="list-style-type: none"> <li>✓ Motorized</li> <li>Gravity</li> </ul>
Gas Train:	<ul style="list-style-type: none"> <li>Piloted</li> <li>✓ Direct Spark</li> </ul>
Drive Package:	<ul style="list-style-type: none"> <li>Constant Volume.</li> <li>✓ Variable Speed: Powertex 523 VFD Danfoss VFD</li> <li>Fuse size: _____</li> <li>✓ Weg VFD</li> </ul>
Roof Curb:	<ul style="list-style-type: none"> <li>✓ w/ Insulation</li> <li>✓ w/ Wood Nailer</li> </ul>
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:	<ul style="list-style-type: none"> <li>✓ Remote Condenser (Shipped Loose)</li> <li>Package Unit (Factory Installed)</li> </ul>
PLC Compressor Staging Controls by Halton (Programmed Setpoints)	
D.A.T. Controller (DiTech Unitouch):	<ul style="list-style-type: none"> <li>✓ D.A.T. Control</li> <li>Space Temp Control</li> </ul>
LCD Remote Display Unit:	<ul style="list-style-type: none"> <li>✓ D.A.T. Control</li> <li>Space Temp Control</li> </ul>
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		
<b>GAS INFORMATION</b>	<b>ELECTRICAL INFORMATION</b>	<b>EQUIPMENT SPECIFICATIONS</b>
MIDCO 6" SS BURNER	208V / 3PH / 60HZ SUPPLY	ENTERING AIR THERMOSTAT/LOW
PRESSURE REGULATOR REQUIRED - SEE RATING PLATE	INTEGRAL NON-FUSED DISCONNECT SWITCH	TEMPERATURE CUTOFF
RTC GAS CONTROLS	PREMIUM EFFICIENCY MOTOR	EXTERNAL PROFILE ADJUSTMENT WITH PRESSURE GAUGE
DISCHARGE TEMPERATURE DIAL MOUNTED IN UNIT	INTEGRAL MOTOR STARTER WITH THERMAL OVERLOADS	GALVANIZED FINISH
HIGH TEMP LIMIT SWITCH SET TO 140°F	FIRE PROTECTION INTERLOCK	0" CLEARANCE ON TOP & BOTTOM OF UNIT UNIT SHIPS ASSEMBLED IN ONE PIECE
	REMOTE START/STOP	1" CLEARANCE TO COMBUSTIBLE ON ENDS LISTED 18" FROM COMBUSTIBLE ON SIDES
	50% MUA TURN DOWN	

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1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

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WITH NO CHANGES:  WITH CHANGES AS NOTED:

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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 SCOTTSVILLE, KY 40241  
 1-800-624-4301

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION
1	02.23.23	ISSUE FOR FABRICATION

PROJECT: CFA #80307 UNIVERSITY OF NORTH TEXAS  
 LOCATION: DENTON, TX  
 DRAWN BY: SKM  
 SCALE: NOT TO SCALE  
 CONSULTANT: Halton

DRAWING TITLE: U23-192

DRAWING No.: U23-192  
 SHEET No.: \_\_\_\_\_ of \_\_\_\_\_

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 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
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DRAWN BY	RTM

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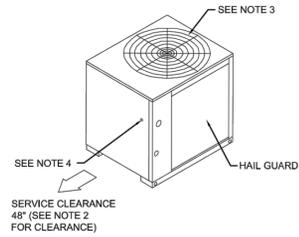
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MECHANICAL HOOD PACKAGE

SHEET NUMBER  
**M4.02**

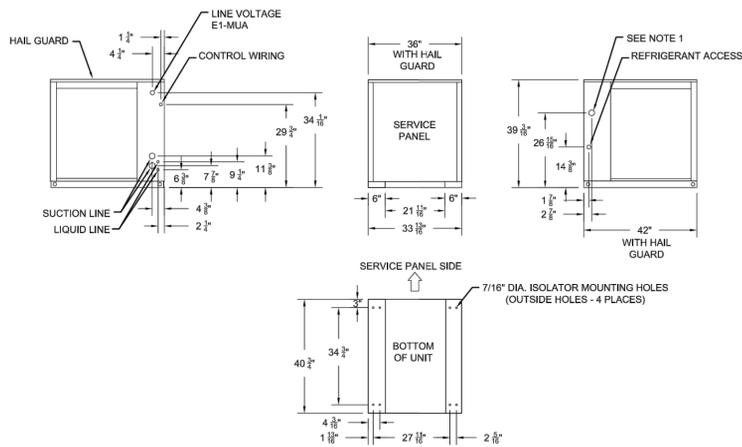
BIM 360/INC\_05197\_Cape Fear Valley Med Center\_ARC.nt  
10/19/2022 10:59:42 AM  
05197-A-201-FLOOR PLAN

ITEM #CU-1



Notes:

- Access opening is for field installed Bayloam accessory.
- 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".
- Top discharge area should be unrestricted for 100" minimum. Unit should be placed so roof run-off water does not pour directly on unit.
- 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

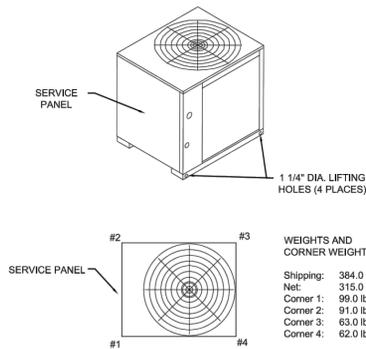
**TTA Microchannel - Condenser Coil (Microchannel)**  
Microchannel coils burst tested by the manufacturer Coils shall be leak tested to ensure the pressure integrity Factory pressure and leak tested to 660 psig Perforated steel hail guards factory installed

**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

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
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 ARE TO BE MAINTAINED.  
2. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES ARE TO BE MAINTAINED.  
NOTE TO APPROVER: TYPE OF COOLING EQUIPMENT.  
ANY CHANGES TO COOLING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES REQUIRING A RECALCULATION OF AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REV.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

PROJECT: CHICK-FIL-A #80307  
UNIVERSITY OF NORTH TEXAS

LOCATION: DENTON, TX  
DRAWN BY: SKM  
DATE: 02/23/23  
SCALE: NOT TO SCALE

CONSULTANT: **Halton**

DRAWING TITLE: MUA-DGX-4600

DRAWING No.: U23-192

REV. NO.: 0 SHEET NO.: 4 of 5



CONSTRUCTION DOCUMENTS

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

M4.03

Chick-fil-A  
5200 Buffington Road  
Atlanta, Georgia 30349-2998  
P: (404) 765 8000

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Phone: (972) 386-0338 Fax: (972) 386-0578  
www.MayseAssociates.com

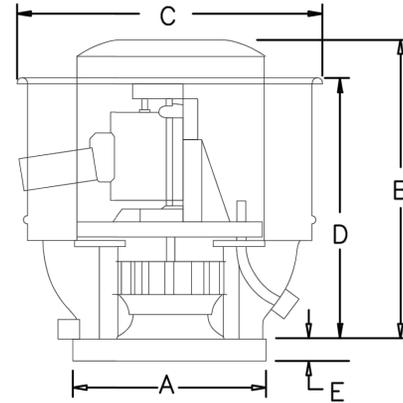
FOR REFERENCE ONLY

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

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

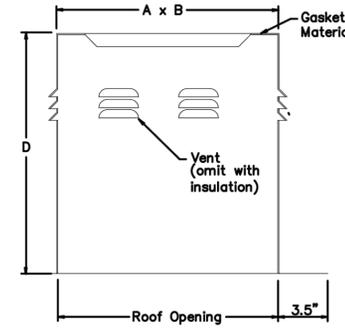
REVISION SCHEDULE  
NO. DATE DESCRIPTION

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

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONS, INFORMATION, MOUNTING POSITIONS AND EXPLANATIONS.
2. THE LOCATION AND TYPE OF COILING EQUIPMENT.

ANY CHANGES IN COILING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES SHALL BE REGULATORY CONSULT WITHIN 14 DAYS OF THESE CHANGES BEING REQUIRED.

REUSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 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

DRAWN BY: SKM DATE: 02.23.23

SCALE: NOT TO SCALE

CONSULTANT: **Halton**

DRAWING No.: U23-192

REV. No.: 0 SHEET No.: 5 of 5

Chick-fil-A  
 5200 Buffington Road  
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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

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

CONSULTANT PROJECT # 22.MAY.012  
 PRINTED FOR CONSTRUCTION DOCUMENTS  
 DATE 2/28/2023  
 DRAWN BY RTM

rtm  
 engineering consultants  
 14901 Quorum Dr. #565  
 Dallas, Texas 75254  
 rtmecc.com | 972.387.3500

MECHANICAL HOOD PACKAGE  
 SHEET NUMBER  
**M4.04**

**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 Burffington 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% EI, Required Efficiency: 80.00% EI 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 (ME17)	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 (F097)	Snow/ice melting systems 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 (F097)	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 emerald 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 (ME139)	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 <sup>2</sup> and >= 25 people/1000 ft <sup>2</sup> 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 (ME157)	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	

Project Title: Chick-Fil-A - University of North Texas  
 Data filename: M1\_202222.MAY.021 - CFA Univ North Texas01 PROJECT DOC505 ELECT/Mechanical  
 Report date: 02/28/23  
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**Chick-Fil-A**  
 5200 Burffington Road  
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Project Title: Chick-Fil-A - University of North Texas  
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Project Title: Chick-Fil-A - University of North Texas  
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Project Title: Chick-Fil-A - University of North Texas  
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Project Title: Chick-Fil-A - University of North Texas  
 Data filename: M1\_202222.MAY.021 - CFA Univ North Texas01 PROJECT DOC505 ELECT/Mechanical  
 Report date: 02/28/23  
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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 intakes, and satisfy hood rating requirements and maximum exhaust rates.	<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 (ME647)	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	
C403.5.1 (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	

Project Title: Chick-Fil-A - University of North Texas  
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Section # & Req ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C403.6 (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	
C403.7 (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	
C403.8.2 (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	
C403.9 (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	

Project Title: Chick-Fil-A - University of North Texas  
 Data filename: M1\_202222.MAY.021 - CFA Univ North Texas01 PROJECT DOC505 ELECT/Mechanical  
 Report date: 02/28/23  
 Page 7 of 11

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 (F177)	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 (F177)	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	

Project Title: Chick-Fil-A - University of North Texas  
 Data filename: M1\_202222.MAY.021 - CFA Univ North Texas01 PROJECT DOC505 ELECT/Mechanical  
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Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.1 (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	
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Project Title: Chick-Fil-A - University of North Texas  
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Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.1 (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	
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Project Title: Chick-Fil-A - University of North Texas  
 Data filename: M1\_202222.MAY.021 - CFA Univ North Texas01 PROJECT DOC505 ELECT/Mechanical  
 Report date: 02/28/23  
 Page 10 of 11

**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**

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CONSULTANT PROJECT # 21136  
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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 Sub-Contractor," or "Fire Protection Sub-Contractor."  
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, 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 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 this 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 recharges at approximately 90 day 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.  
4. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).  
5. National Fire Protection Association (NFPA).  
6. Underwriters Laboratories (UL).  
7. Americans with Disabilities Act (ADA).  
8. Local code authorities.

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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 instructions.  
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 Fiberglas 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.

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BASIC MATERIALS AND METHODS  
PART 1 - GENERAL  
1.01 SCOPE:  
A. Furnish all labor, materials, tools, equipment and related items required for the complete installation of insulation as indicated by the Contract Documents. All piping insulation values (R-values) must meet that required by the applicable energy codes regardless of the thickness listed.  
1.02 QUALITY ASSURANCE:  
A. Applicator: Company specializing in piping insulation application with three years minimum 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.  
1.03 SUBMITTALS:  
A. Submit product data prior to ordering.  
B. Include product description, list of materials and thickness for each service, and location.  
C. Submit manufacturer's installation instructions.  
PART 2 - PRODUCTS  
2.01 ACCEPTABLE MANUFACTURERS  
A. Marville, Knauf, Owens-Corning.  
2.02 GENERAL:  
A. All materials used shall have a flame spread rating of not more than 25 with evidence of continuous progressive combustion, and with a smoke developed rating of not higher than 50. Shop drawing submittals shall show this information.  
2.03 DOMESTIC WATER PIPING:  
A. For all Hot Water, Cold Water and (used) Hot Water Return piping:  
1. Use Owens-Corning Fiberglas 25 ASJ/SSL or equal one-piece pipe insulation with all service jacket and self sealing lap.  
2. For 1/2" and 3/4" lines use 1/2" thick pipe insulation. For 1" and larger lines use 1" thick pipe insulation.  
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.  
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 provided for testing and adjusting of the systems. Provide all apparatus, temporary piping connection

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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 air conditioning 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, 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 prefinished, 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, manufacturers' 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 steel 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 PROTECTION 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 outlets.  
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.

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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 A112.6.1 - 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 842-3P/NR 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 grate; model 861-X/PN 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 round, adjustable pressure reducing valve 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 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.

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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. In all installations with spaces below the floor, all drains, cleanouts and floor sinks shall have floor 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.

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FIXTURE ROUGH-IN SCHEDULE:  
A. Rough-in fixture piping connection in accordance with following table of minimum sizes for particular fixtures.  
Hot Water Cold 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"  
Wtr Closet --- 1/2" 2" 1-1/2"  
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 (NBBVI).  
4. National Electrical Manufacturers Association (NEMA).  
5. Underwriters Laboratories (UL).  
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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A. Coordinate forming of roof and floor construction to receive drains to required invert elevations.  
3.02 INSTALLATION AND APPLICATIONS:  
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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. ANSI A112.6.1 - Sinks for Off-the-Floor Plumbing Fixtures for Public Use.  
D. ANSI A112.18.1 - Furnished and Rough Brass Plumbing Fixture Fittings.  
E. ANSI A112.19.1 - Enameled Cast Iron Plumbing Fixtures.  
F. ANSI A112.19.2 - Vitreous China Plumbing Fixtures.  
G. ANSI A112.19.5 - 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 restrictions.  
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 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.

10  
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  
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Dallas, Texas 75254  
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11  
CONSTRUCTION DOCUMENTS  
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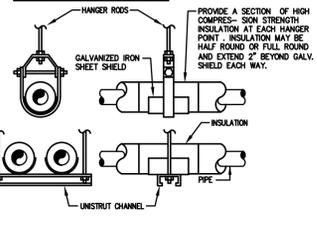
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BUILDING TYPE / SIZE: LCV  
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DAVID R. LIPPE  
REG. ARCHT. 53317  
PROFESSIONAL ENGINEER  
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CHICK-FIL-A  
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STUDENT UNION  
1155 UNION CIRCLE  
DENTON, TX 76203  
LCV#80307  
BUILDING TYPE / SIZE: LCV  
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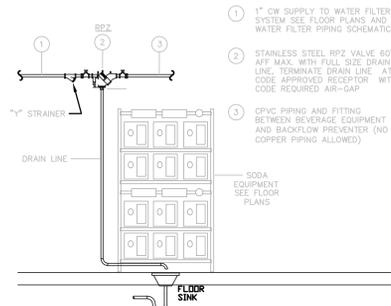


MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS

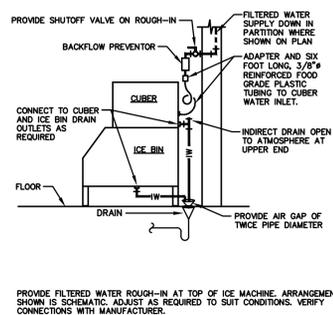
NOMINAL SIZE	MIN. LENGTH	MIN. THICKNESS
1/2"	12"	18 GA.
3/4"	12"	18 GA.
1"	12"	18 GA.
1 1/4"	12"	18 GA.
1 1/2"	12"	18 GA.
2"	12"	18 GA.



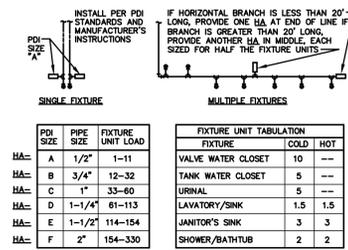
01 TYPICAL PIPE HANGER  
 Scale: NONE



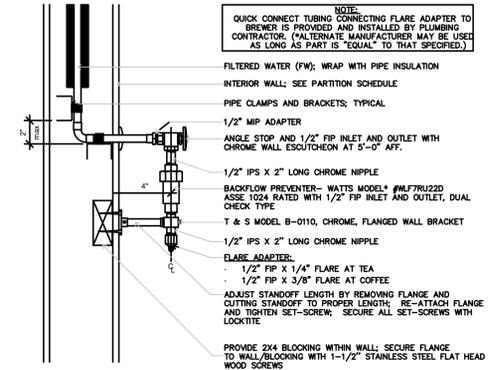
02 BEVERAGE SYSTEM B.F.P.  
 Scale: NONE



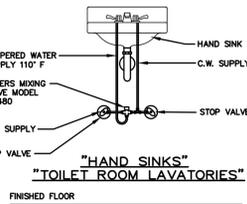
03 ICE MACHINE SUPPLY  
 Scale: NONE



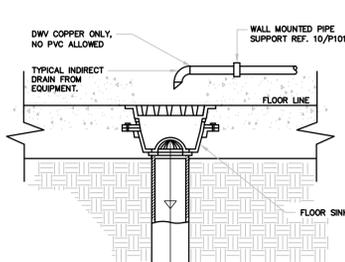
04 HAMMER ARRESTORS  
 Scale: 09



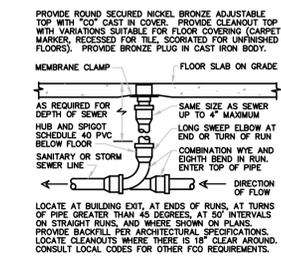
05 COFFEE/TEA BREWER AND BFP  
 Scale: NONE



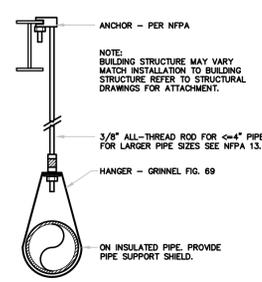
06 MV-1 MIXING VALVE  
 Scale: NONE



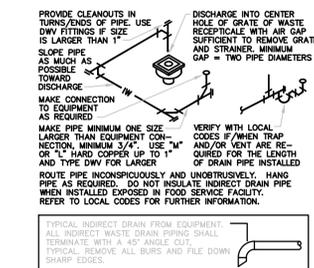
07 FLOOR SINK DETAIL  
 Scale: 10



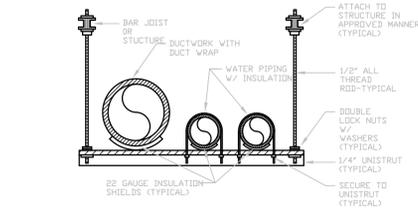
08 FLOOR CLEANOUT  
 Scale: NONE



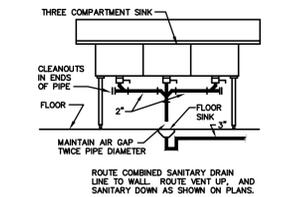
09 PIPE HANGER DTL.  
 Scale: NONE



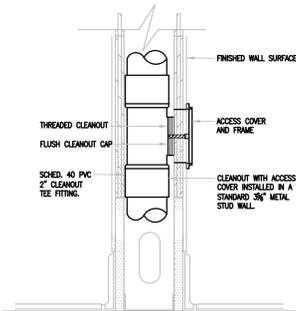
10 INDIRECT DRAIN  
 Scale: NONE



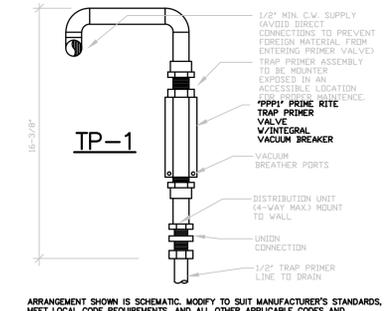
11 TYPICAL TRAPEZE HANGER  
 Scale: NONE



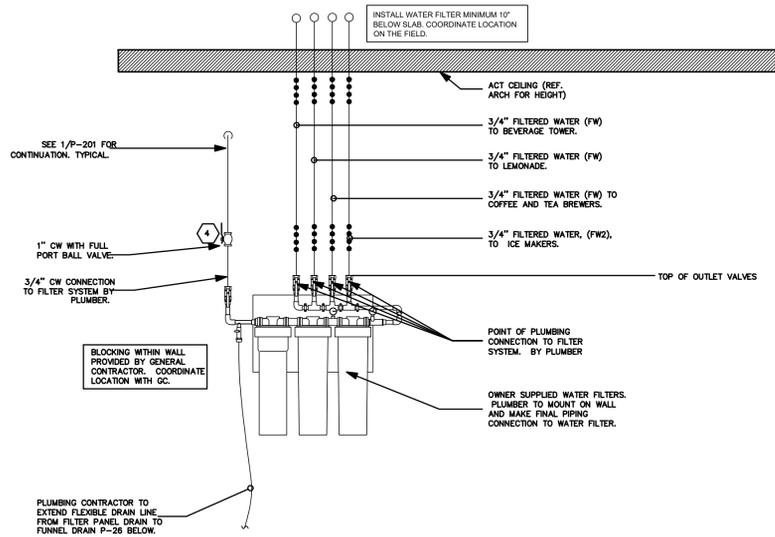
12 3-COMPARTMENT SINK DRAIN  
 Scale: NONE



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

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  
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SHEET PLUMBING DETAILS  
 SHEET NUMBER  
 P0.01

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 engineering consultants  
 14901 Quorum Dr. #565  
 Dallas, Texas 75254  
 rtmc.com | 972.387.3500

CONSTRUCTION DOCUMENTS

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.

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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DAVID R. LIPPE
REGISTERED PROFESSIONAL ENGINEER
E-17318 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
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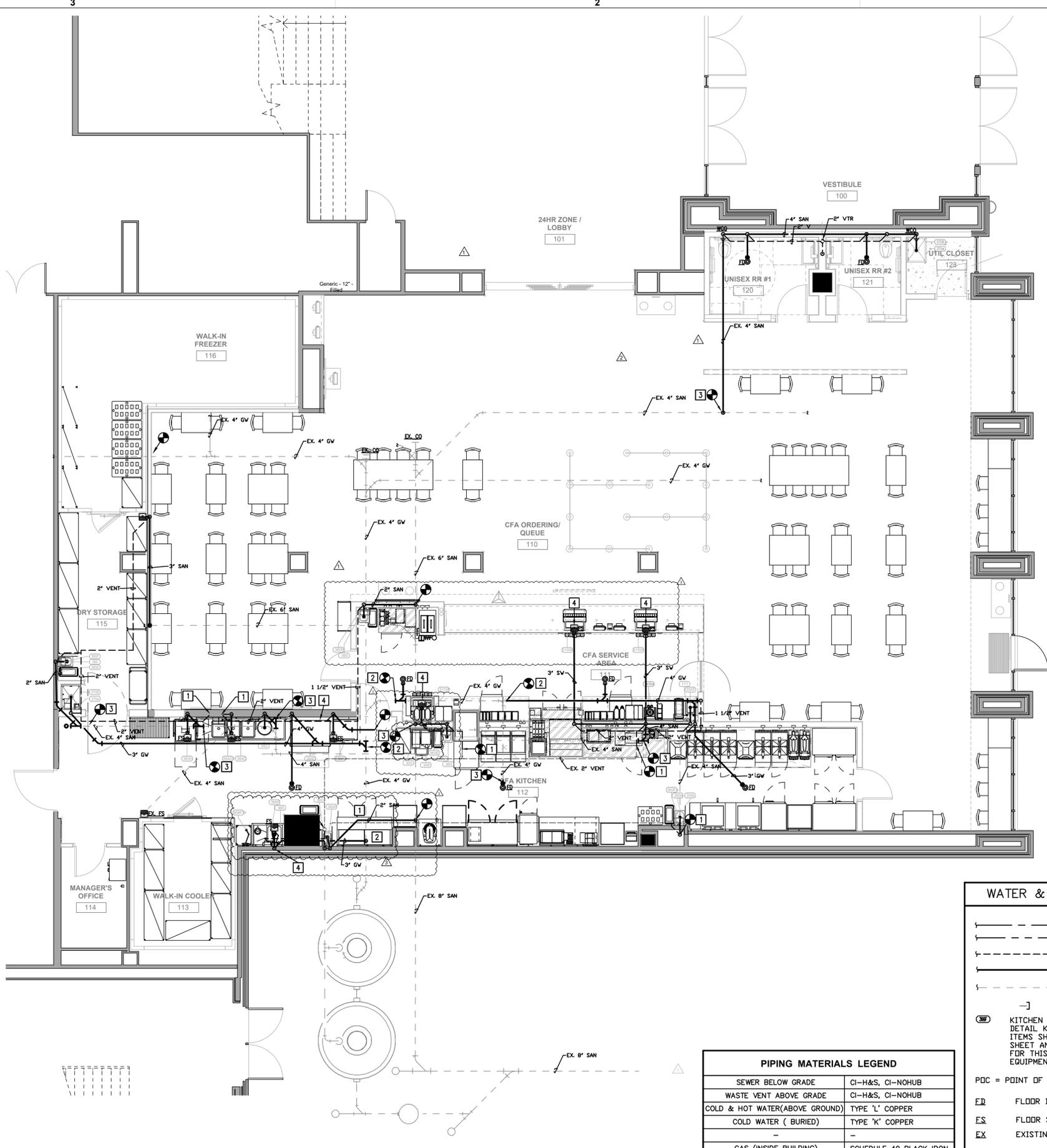


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SHEET PLUMBING SCHEDULES
SHEET NUMBER

P0.02

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 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 BRACETS, 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
- CONNECT TO EXISTING VENT LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
  - CONNECT TO EXISTING GW LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
  - CONNECT TO EXISTING SW LINE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
  - ROUTE DRAIN LINE FROM EQUIPMENT TO NEAR BY FLOOR SINK WITH CODE REQUIRED AIR GAP.

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DAVID R. LIPPE  
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 F-17316 08/02/23

**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
3	08/02/2023	ARCHITECTURE COORDINATION REVISION

CONSULTANT PROJECT #	22-MAY-012
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DATE	2/28/2023
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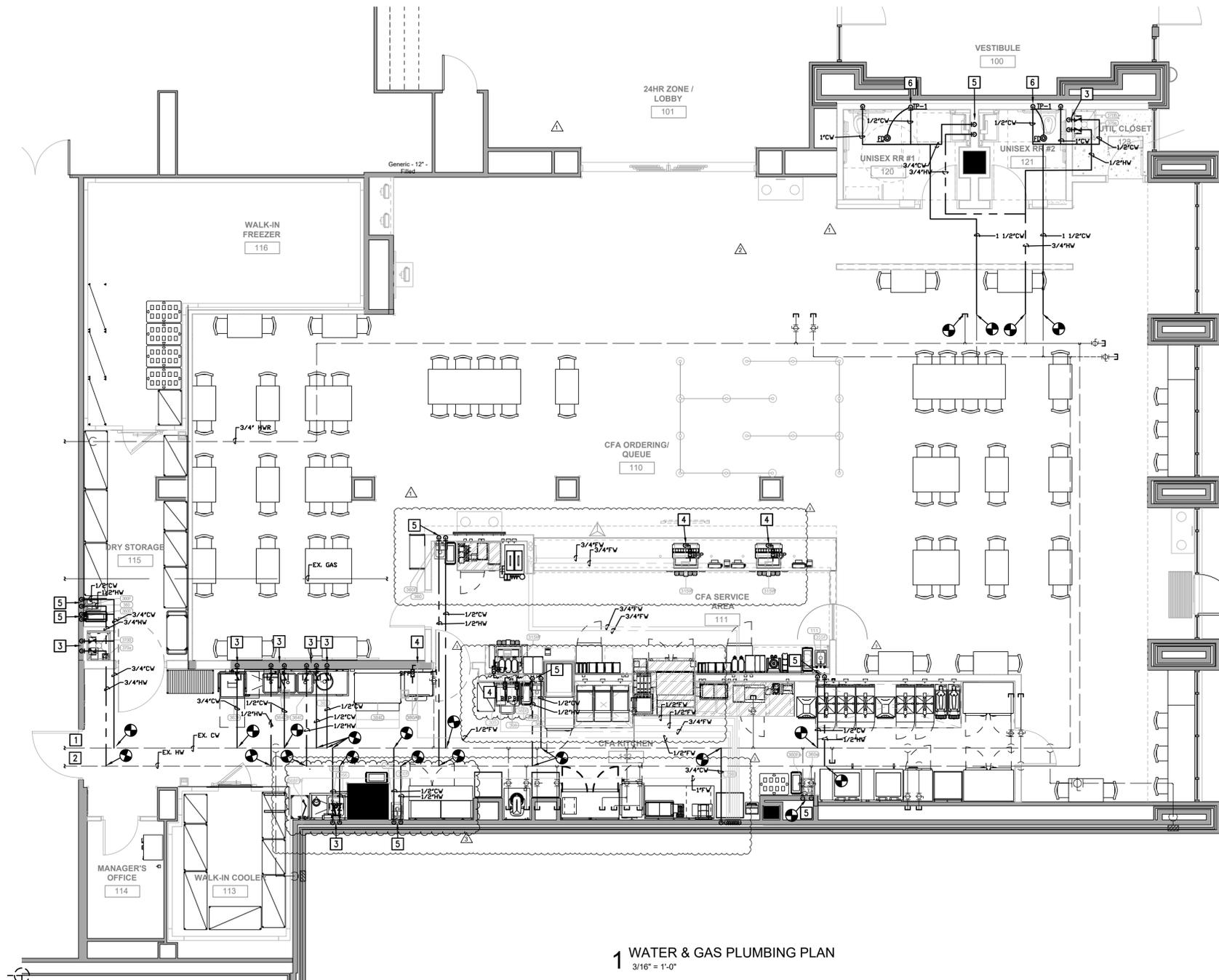
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CONSTRUCTION DOCUMENTS

SEWER AND WASTE PLUMBING PLAN

SHEET NUMBER  
**P1.01**



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.
PDC = POINT OF CONNECTION	
	FLOOR DRAIN
	FLOOR SINK
	EXISTING
	EXISTING TO REMAIN
	TO BE REMOVED
	RELOCATED

- ### GENERAL NOTES
- VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND FIRING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
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  - 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 LIVE ELECTRICAL PANELS. INSURE THAT ALL WATER LINES ROCK WALLS ARE ADEQUATELY SECURED.
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  - 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 TRIM 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
- CONNECT NEW CW PIPING TO EXISTING WATER SERVICE. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
  - CONNECT NEW HW PIPING TO EXISTING HW LOOP. FIELD VERIFY EXACT LOCATION AND SIZE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
  - INSTALL CHECK VALVES ON SUPPLY LINES TO PLUMBING FIXTURES OR VERIFY EQUIPMENT INTERNAL GAP.
  - PROVIDE BACKFLOW PREVENTION. REFER TO SCHEDULE 'PLUMBING FIXTURES' FOR SPECIFICATION. IF APPLICABLE, ROUTE DRAIN TO NEARBY FLOOR RECEPTOR.
  - PROVIDE MIXING VALVE AT HAND SINK TO REDUCE HOT WATER TEMPERATURE TO 110°F. REFERENCE DETAIL #06.
  - PROVIDE TRAP PRIMER VALVE AT FLOOR DRAIN WITH WALL ACCESS PANEL. ACCESS PANEL.

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 F-17316 08/02/23

# CHICK-FIL-A

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 STUDENT UNION  
 1155 UNION CIRCLE  
 DENTON, TX 76203

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

### CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	05/05/2023	PLAN REVIEW REV
3	08/02/2023	ARCHITECTURE COORDINATION REVISION

CONSULTANT PROJECT # 22.MAY.012  
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WATER AND GAS PLUMBING PLAN  
 SHEET NUMBER  
**P1.02**