

INTERIOR RENOVATIONS FOR: CHEROKEE COUNTY PROBATION OFFICE

400 EAST MAIN STREET
CANTON, GA 30114

FIRE MARSHAL'S NOTES

THE FOLLOWING PLANS HAVE BEEN REVIEWED BY THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS ADOPTED AT THE TIME. EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED TO RECEIVE FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY (CO).

A PRE-CONSTRUCTION MEETING, 50%, 80% AND 100% INSPECTIONS ARE REQUIRED UNLESS AT THE PRE-CONSTRUCTION MEETING IT IS DETERMINED THAT ALL INSPECTIONS ARE NOT REQUIRED.

ALL FIRE INSPECTIONS ARE SCHEDULED THROUGH THE CITYVIEW PORTAL UNDER THE SAME PERMIT NUMBER AS THE BUILDING PERMIT. THIS MUST BE DONE BY THE CONTRACTOR.

THE EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE ON THE SAME CIRCUIT AS THE AREA FEEDING THE LIGHTING FOR THAT AREA. 2020 NFPA 70, SECTION 700.12 F (2) (3), THE BRANCH CIRCUIT FEEDING THE UNIT EQUIPMENT SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

BUILDING INFORMATION

OWNER:	CHEROKEE COUNTY BOARD OF COMMISSIONERS 1130 BLUFFS PARKWAY CANTON, GA. 30114
CONSTRUCTION TYPE:	IBC - IIB
OCCUPANCY TYPE:	BUSINESS
NUMBER OF STORIES:	ONE
BUILDING SPRINKLERED:	NO
BUILDING SQUARE FOOTAGE:	7,270 S.F. GROSS
CITYVIEW NUMBER:	TBD

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CODE INFORMATION

ALL WORK IN RENOVATED AREAS SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES:

2018 LIFE SAFETY CODE (LSC) - INCLUDING THE GA 120-3-3 RULES & REGULATIONS OF THE STATE FIRE COMMISSIONER

2018 INTERNATIONAL BUILDING CODE (IBC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL FIRE CODE (IFC) WITH CURENT GEORGIA AMENDMENTS

2018 INTERNATIONAL MECHANICAL CODE (IMC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL PLUMBING CODE (IPC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL FUEL GAS CODE - 2020 GEORGIA AMENDMENTS

2020 NATIONAL ELECTRIC CODE (NEC) WITH CURRENT GEORGIA AMENDMENTS

2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2020 GEORGIA AMENDMENTS

2010 A.D.A. STANDARDS FOR ACCESSIBLE DESIGN - INCLUDING GA. ACCESSIBILITY STANDARDS 120-3-20

ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS

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A5.1	INTERIOR SIGNAGE		



ARCHITECTURAL

KRH ARCHITECTS, INC.
855 ABUTMENT RD., STE. 4
DALTON, GA 30721
TEL. 706.529.5895

CIVIL

STRUCTURAL

MECHANICAL

THE DESIGN GROUP
P.O. BOX 9394
DOTHAN, AL 36304
TEL. 706.295.9440

ELECTRICAL

LUNDY ENGINEERING GROUP
229 LAND ROAD
WALESKA, GA 30183
TEL. 678.634.6941

PROJECT NUMBER

23-001

FACILITY CODE

N/A

DRAWING REVISIONS

NO.	TYPE	DATE
CITYVIEW REVISIONS		08/21/23

- ☐ PRELIMINARY REVIEW
- ☐ CHECKSET REVIEW
- ☐ FINAL SET REVIEW
- ☐ FOR CONSTRUCTION

DATE

05/15/23

SHEET INDEX

T1.1

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DOOR EGRESS CAPACITIES AT .2 PER PERSON:		
SIZE	CLEAR WIDTHS	NUMBER OF PEOPLE
3'-0" SINGLE	33.5"	168
3'-0" PAIR W/ MULLION	67"	335

IDENTIFICATION OF FIRE AND SMOKE RATED WALLS:

ALL FIRE RATED WALLS AND PARTITIONS SHALL BE PERMANENTLY IDENTIFIED ABOVE THE CEILING LINE WITH WORDING AS FOLLOWS:

"_HR. RATED FIRE OR SMOKE BARRIER PROTECT ALL OPENINGS"

SUCH IDENTIFICATION SHALL CONSIST OF 2" H. RED LETTERS PAINTED DIRECTLY ON BOTH SIDES OF THE WALL. USE RED ENAMEL PAINT AND STENCILS. SPACING SHALL BE 10'-0" O.C. MAXIMUM.

THE FOLLOWING WALLS SHALL BE SO IDENTIFIED: ALL RATED WALLS & PARTITIONS-AS INDICATED ON SHEET A0.1.

NOTE: KEY LOCK BOX IS REQUIRED PER CHEROKEE COUNTY ORDINANCE 2018-0-008, ARTICLE III - EMERGENCY ENTRANCE KEY LOCK BOX STATES THAT THE FIRE INSPECTOR WILL APPROVE THE LOCATION FOR THE BOX DURING THE 50% OR 80% INSPECTION. GENERALLY, THESE BOXES ARE LOCATED FIVE (5) FEET ABOVE GRADE AND TO THE RIGHT OF THE MAIN ENTRY DOOR. THE REQUIRED KNOX BOX MUST BE ORDERED THROUGH WWW.KNOXBOX.COM, USING CHEROKEE CO FIRE/EMS AS THE LOCAL DEPARTMENT/AGENCY. KNOX BOX SHALL BE OF A RECESSED TYPE. KNOX BOX TO BE PROVIDED BY GENERAL CONTRACTOR.

NOTE: PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED PER NFPA 101. AN INSPECTOR OF THE FIRE MARSHAL'S OFFICE PRIOR TO FINAL INSPECTION WILL DETERMINE THE LOCATION AND ARRANGEMENT OF THE EXTINGUISHERS. A MINIMUM OF FOUR EXTINGUISHERS WITH THE POSSIBILITY OF ONE EVERY SEVENTY-FIVE (75) MAY BE REQUIRED.

NOTE: CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND PERMIT. THESE PLANS MUST BE UPLOADED TO THE CITYVIEW PORTAL UNDER "APPLY FOR A BUILDING PERMIT". CONTRACTOR SHALL BE IN POSSESSION OF PERMIT PRIOR TO COMMENCEMENT OF WORK. ANY DESIGN OF THESE SYSTEMS SHOWN ON THIS SET OF CONTRACT DOCUMENTS SHALL BE FOR REFERENCE ONLY AND IS NOT PART OF THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE REVIEW.

NOTE: CONTRACTOR SHALL PROVIDE FULL DETAILS AND CUTSHEETS FOR ALL MATERIALS USED IN ALL U.L. DESIGNED ASSEMBLIES TO THE FIRE MARSHAL'S OFFICE FOR APPROVAL.

NOTE: ALL EVACUATION ROUTES ARE DESIGNED TO BE HANDICAP ACCESSIBLE.

PLAN LEGEND

F.E. - FIRE EXTINGUISHER AND CABINET

N.I.C. - NOT IN CONTRACT

- TYPICAL WINDOW

- EXISTING WALL - CONSTRUCTION OF WALL VARIES. FIELD VERIFY.

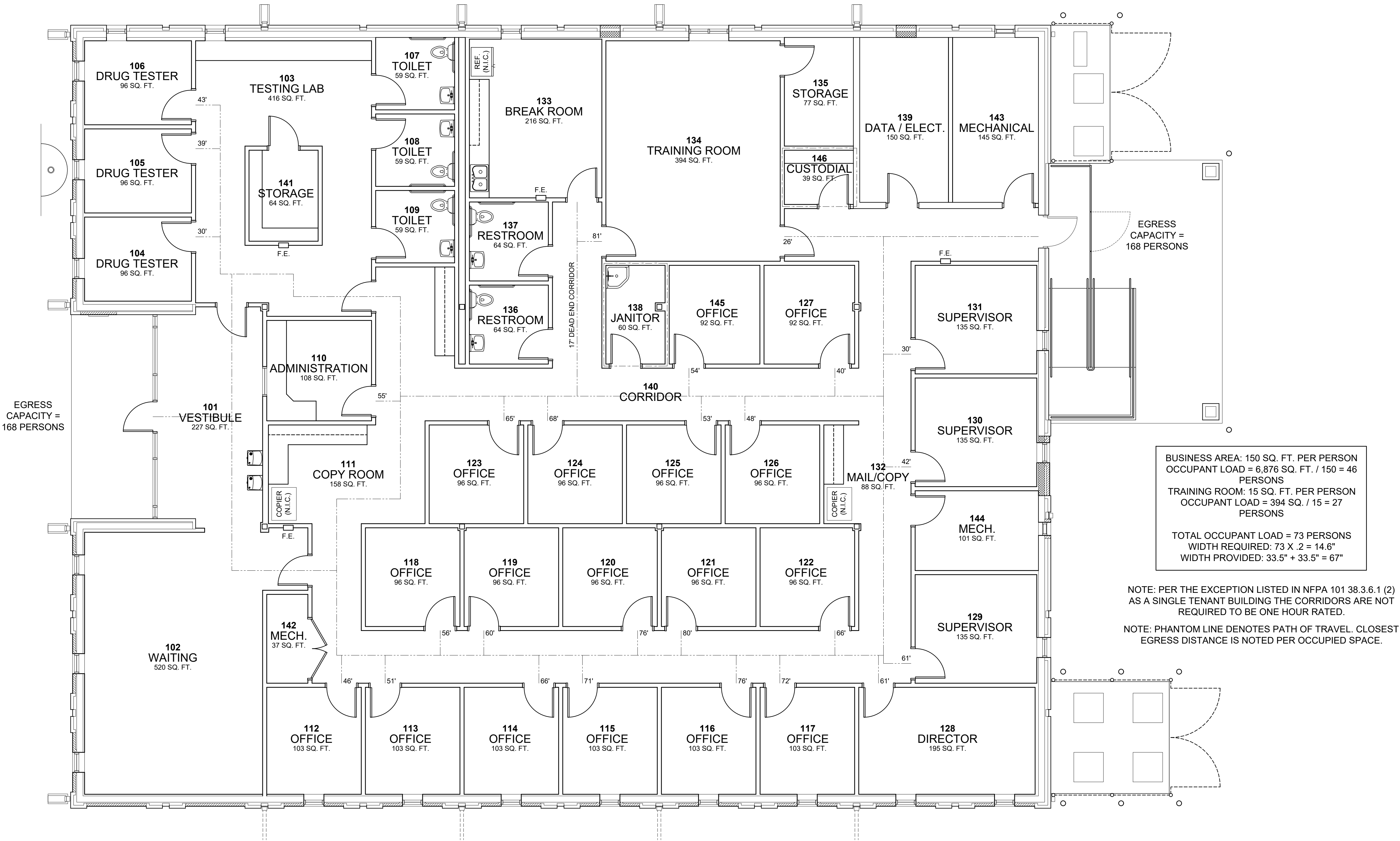
- EXISTING WALL TO RECEIVE NEW GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.

- NEW CMU WALL WITH GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.

- NEW 5/8" GYP BD. AND 3-5/8" METAL STUD PARTITION TO EXTEND 1'-0" ABOVE CEILING UNLESS NOTED OTHERWISE. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.

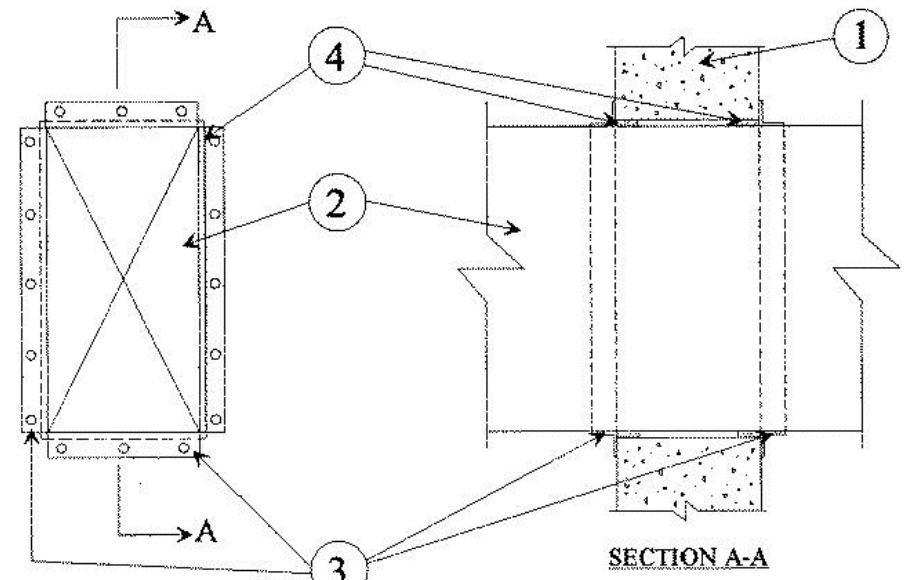
- ONE HOUR RATED PARTITION SEALED TIGHT TO DECK PER U.L. DESIGNS #U419 OR #U905. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.

NOTE: THE MECHANICAL ROOMS ARE NOT RATED PER THE GA AMENDMENTS EXCEPTION TO THE IBC WHICH STATES: "THE PROVISIONS OF 38.3.2.1 SHALL NOT APPLY TO ROOMS ENCLOSING AIR HANDLING EQUIPMENT, COMPRESSOR EQUIPMENT, FURNACES OR OTHER HEATING EQUIPMENT WITH A TOTAL AGGREGATE INPUT RATING LESS THAN 200,000 BTU INPUT. SUCH ROOMS SHALL NOT BE USED FOR ANY COMBUSTIBLE STORAGE. A MINIMUM OF 30 INCHES (0.76 M) UNOBSTRUCTED ACCESS SHALL BE PROVIDED AND MAINTAINED TO EQUIPMENT AND ELECTRICAL OR EMERGENCY CONTROL PANELS OR DEVICES FOR EMERGENCY RESPONSE PURPOSES."



System No. W-J-7001

F Rating -- 1 Hr
T Rating -- 0 Hr



1. Wall Assembly -- Min 3-3/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 325 sq in. with max dimension of 25 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Vent Duct -- Nom 12 x 24 in. (or smaller) x 24 gauge (or heavier) galv steel vent duct. One vent duct to be positioned within the firestop system. The annular space shall be min 1/4 in. to a max 3/4 in. Duct to be rigidly supported on both sides of the wall assembly.

3. Steel Retaining Angle -- Nom 2 x 2 x 1/8 in. steel angles attached to all four sides of the duct on both sides of the wall. The angles shall be attached with No. 8 (or larger) steel sheet metal screws or 1/4 in. diam by min 1 in. long steel bolts and nuts spaced within a max of 2 in. from each end and at a max of 5 in. OC.

4. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

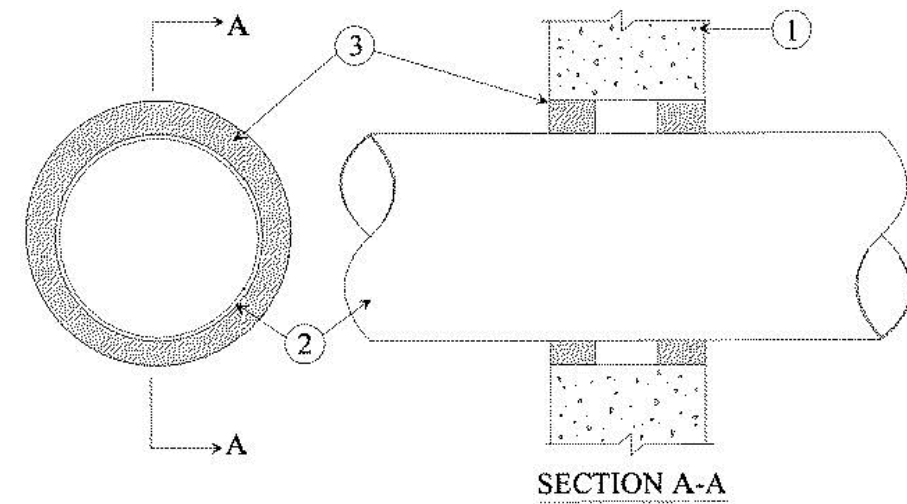
HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC -- CP601S, CP606 or FS-One Sealant

*Bearing the UL Classification Mark

System No. W-J-1028

F Ratings -- 1 & 2 Hr (See Item 3)
T Rating -- 0 Hr



1. Wall Assembly -- Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12-1/2 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants -- One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space between pipes, conduit or tubing and periphery of opening shall be min 1/2 in. to max 7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe -- Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.

C. Copper Tubing -- Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe -- Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

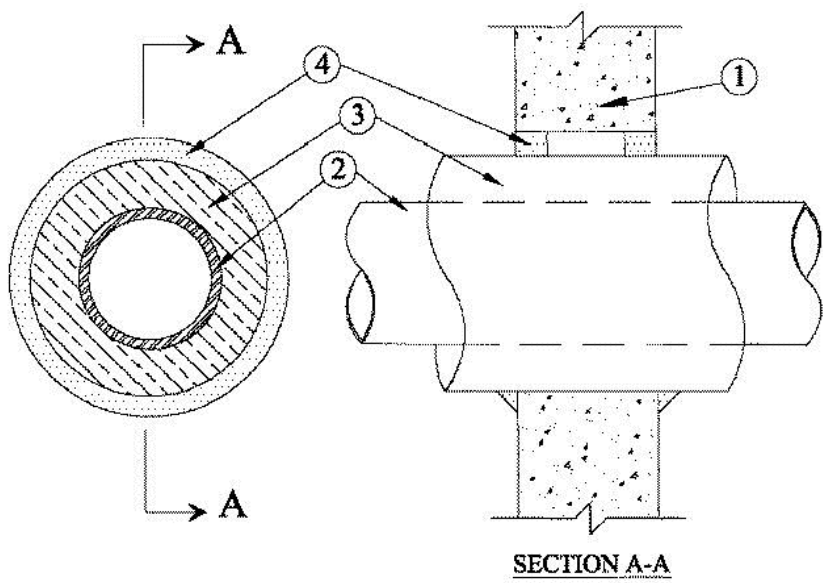
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. or 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 hr and 2 hr fire-rated walls, respectively.
HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC -- CP 601s or FS-ONE Sealant

*Bearing the UL Classification Mark

System No. W-J-5042

F Ratings -- 1 and 2 Hr (See Items 1 and 4)
T Ratings -- 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient -- 4 CFM/Sq Ft
L Rating at 400 F -- Less Than 1 CFM/Sq Ft



1. Wall Assembly -- Min 3-3/4 in. and 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete for 1 and 2 h rated assemblies, respectively. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 18-5/8 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants -- One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe -- Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 12 in. diam (or smaller) cast or ductile iron pipe.

C. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

D. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* -- Nom 1, 1-1/2 or 2 in. thick hollow-cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for the names of the manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is dependent on the size and type of through penetrant, the pipe covering thickness and the annular space as shown in the table below:

Wall Assembly Rating	Through Penetrant		Pipe Covering Thickness In.	Annular Space		T Rating Hr.
	Type +	Max Diameter In.		Min. In.	Max In.	
1	A,B	4	1	0	1-1/2	1/2
1	C OR D	2	1 OR 1-1/2	0	1-1/2	1/2
1	A,B	4	1-1/2	0	1-1/2	1
1	A,B	10	2	0	1-7/8	3/4
1	C OR D	6	2	0	1-7/8	1
2	A,B	4	1	0	1-1/2	1
2	C OR D	4	1 OR 1-1/2	0	1-1/2	1
2	A,B	4	1-1/2	0	1-1/2	1-3/4
2	A,B	12	2	0	1-7/8	1-1/2
2	C OR D	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.

4. Fill, Void or Cavity Material*--Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/wall interface on both surfaces of wall.

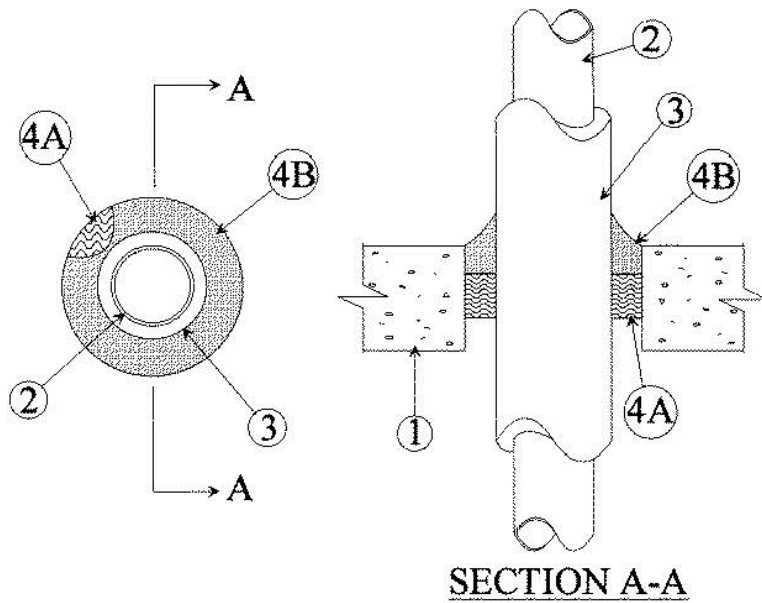
HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC -- FS-One Sealant

*Bearing the UL Classification Mark

System No. C-BJ-5008

F Rating -- 3 Hr
T Rating -- 3 Hr



1. Floor or Wall Assembly -- Min 6 in. thick reinforced normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 16 in.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Pipe -- Nom 8 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. One pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly.

3. Pipe Coverings -- One of the following types of pipe coverings shall be used:

A. Pipe and Equipment Coverings and Materials* -- Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners for factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space within the firestop system shall be min 1/2 in. to max 2 in.

See Pipe and Equipment Covering -- Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. Pipe Covering Materials* -- Nom 2 in. thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (or heavier) and sized to the outside diam of pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. OC. The annular space within the firestop system shall be min 1/2 in. to max 2 in.

IIG MINWOOL L L C -- High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc

C. Sheathing Material* -- Used in conjunction with item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.

See Sheathing Materials (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

1. Firestop System -- The firestop system shall consist of the following:

A. Packing Material -- Min 2-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

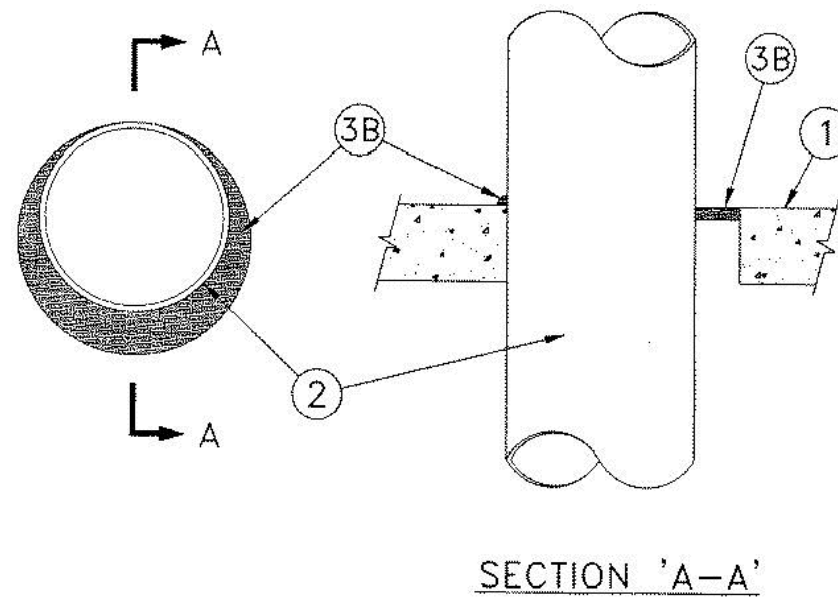
B. Fill, Void or Cavity Material* -- Sealant -- Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating item

W R GRACE & CO - CONN -- FS 1900 Sealant

*Bearing the UL Classification Mark

System No. C-AJ-1235

F Ratings -- 2 and 3 Hr (See Item 3B)
T Rating -- 0 Hr
L Rating at Ambient - Less than 1 CFM/sq ft
L Rating at 400° F - Less than 1 CFM/sq ft



1. Floor or Wall Assembly -- Min 4-1/2 in. (114 mm) thick reinforced normal weight (140-150 pcf or 2200-2400 kg/m³) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 26 in. (660 mm). If the firestop system is installed within a hollow-core hollow-core precast concrete unit, max diam of opening shall be 7 in. (178 mm).
See Concrete Block (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Metallic Sleeve -- (Not shown, Optional) -- Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces. The use and the max diam of the steel sleeve is dependent upon the type and max diam of the through penetrant (Item 3) and type and min fill material thickness as tabulated in Item 3B.

2. Through Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 1-7/8 in. (48 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe -- Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) steel conduit.

D. Copper Tubing -- Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Firestop System -- The firestop system shall consist of the following:

A. Packing Material -- Min 4 pcf (64 m³) mineral wool batt insulation firmly packed into opening or min 1 in. (25 mm) diam backer rod friction fitted into the opening as a form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When the floor is constructed of hollow-core precast concrete units, packing material shall be recessed from both surfaces of floor to accommodate the required thickness of fill materials. In floors, the packing material may be removed after the fill material cures.

B. Fill, Void or Cavity Material* -- Sealant -- Fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the concrete/through penetrant interface on the top surface of floor and on both surfaces of wall. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed symmetrically on both sides of floor, flush with both floor surfaces. The F Rating of the firestop system is dependent upon the use and the max diam of the steel sleeve, type and max diam of the through penetrant and type and min fill material thickness as tabulated below:

Use of Steel Sleeve	Max. Dia. of Stl. Sleeve In.	Type of Through Penetration	Max. Dia. of Through Penetration In.	Type of Fill Material	Min. Fill Material Thickness In.	F Rating Hr.
Not Permitted	-	Steel or Iron Pipe	24 (610)	FS1900	1 (25)	3
Permitted	8 (203)	Steel or Iron Pipe	6 (125)	FS1900	1 (25)	3
Permitted	8 (203)	Copper Pipe, Tube or Stl.	6 (125)	FS1900	1 (25)	3
Permitted	6 (125)	Steel EMT	4 (102)	FS1900	1 (25)	3
Permitted	6 (125)	Steel or Iron Pipe	4 (102)	FS1900	1/2 (13)	2
Permitted	6 (125)	Copper Pipe, Tube or Stl.	4 (102)	FS1900	1/2 (13)	2
Permitted	6 (125)	Steel EMT	4 (102)	FS1900	1/2 (13)	2
Not Permitted	-	Steel or Iron Pipe	24 (610)	FS900/FS900+	1/2 (13)	3
Permitted	8 (203)	Steel or Iron Pipe	6 (125)	FS900/FS900+	1/2 (13)	3
Permitted	8 (203)	Copper Pipe, Tube or Stl.	6 (125)	FS900/FS900+	1/2 (13)	3
Permitted	6 (125)	Steel EMT	4 (102)	FS900/FS900+	1/2 (13)	3

W R GRACE & CO - CONN -- FlameSafe® FS1900, Flamesafe® FS900, FlameSafe® FS900+.

*Bearing the UL Classification Mark

PROJECT NUMBER

23-001

DATE

05/15/23

REVISIONS

NO.	DATE
0000	00/00/00

FACILITY CODE

000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:

PROBATION OFFICE

400 EAST MAIN STREET, CANTON GA 30114

CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX

U.L. DETAILS

SHEET INDEX

A0.3

FOR CONSTRUCTION

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GENERAL DEMOLITION NOTES:

*COORDINATE ALL DEMOLITION WITH OWNER AND NEW PLANS. SEE SPECIFICATIONS, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

*REMOVE ANY EXISTING CONSTRUCTION REQUIRED TO PERFORM NEW WORK.

*EXISTING AREAS TO REMAIN THAT ARE DISTURBED BECAUSE OF WORK PERFORMED UNDER THIS CONTRACT ARE TO BE REPAIRED/RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS DIRECTED BY OWNER.

*ALL EXISTING EQUIPMENT AND MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AS DIRECTED BY OWNER.

*WHEN EQUIPMENT IS DEMOLISHED, ALL ASSOCIATED COMPONENTS SHALL BE REMOVED.

*CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EQUIPMENT/ COMPONENTS INDICATED TO ACCEPT NEW EQUIPMENT.

*CUT OFF FLUSH WITH WALL AND CAP OVER ALL PENETRATIONS NO LONGER TO BE UTILIZED IN WALLS.

*CONTRACTOR SHALL VISIT THE SITE AND INCLUDE IN THEIR BID ANY DEMOLITION REQUIRED FOR CONSTRUCTION.

*CONTRACTOR SHALL MAINTAIN A SECURE SITE THROUGHOUT DEMOLITION. PROVIDE LOCKABLE GATES/CHAINS/ETC. TO DETER PUBLIC ACCESS WHEN CONTRACTOR IS NOT ON SITE.

GENERAL DEMOLITION NOTES (CONTINUED):

*CONTRACTOR SHALL PROVIDE MEASURES TO DETER UNAUTHORIZED ACCESS TO DEMOLISHED MATERIALS IN DUMPSTERS. MEASURES MAY INCLUDE FENCING, GATES, ETC. AND/OR FREQUENT OR DAILY DUMPSTER PULLS.

*WHEN EXISTING FLOORING IS DEMOLISHED CONTRACTOR SHALL COMPLETELY REMOVE RESIDUAL FLOORING ADHESIVES/GROUTS/SEALANTS FROM ALL SPACES DOWN TO CONCRETE SLAB. LEAVE SLAB SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

*COMPLETELY REMOVE WALLS AS INDICATED ON PLAN. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

KEYED DEMOLITION NOTES:

1. COMPLETELY REMOVE EXISTING DOOR, FRAME AND HARDWARE IN PREPARATION FOR NEW CONSTRUCTION. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.
2. COMPLETELY REMOVE EXISTING STOREFRONT ENTRANCE SYSTEM. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
3. COMPLETELY REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED CONNECTIONS, ACCESSORIES, PARTITIONS, ETC. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

KEYED DEMOLITION NOTES (CONTINUED):

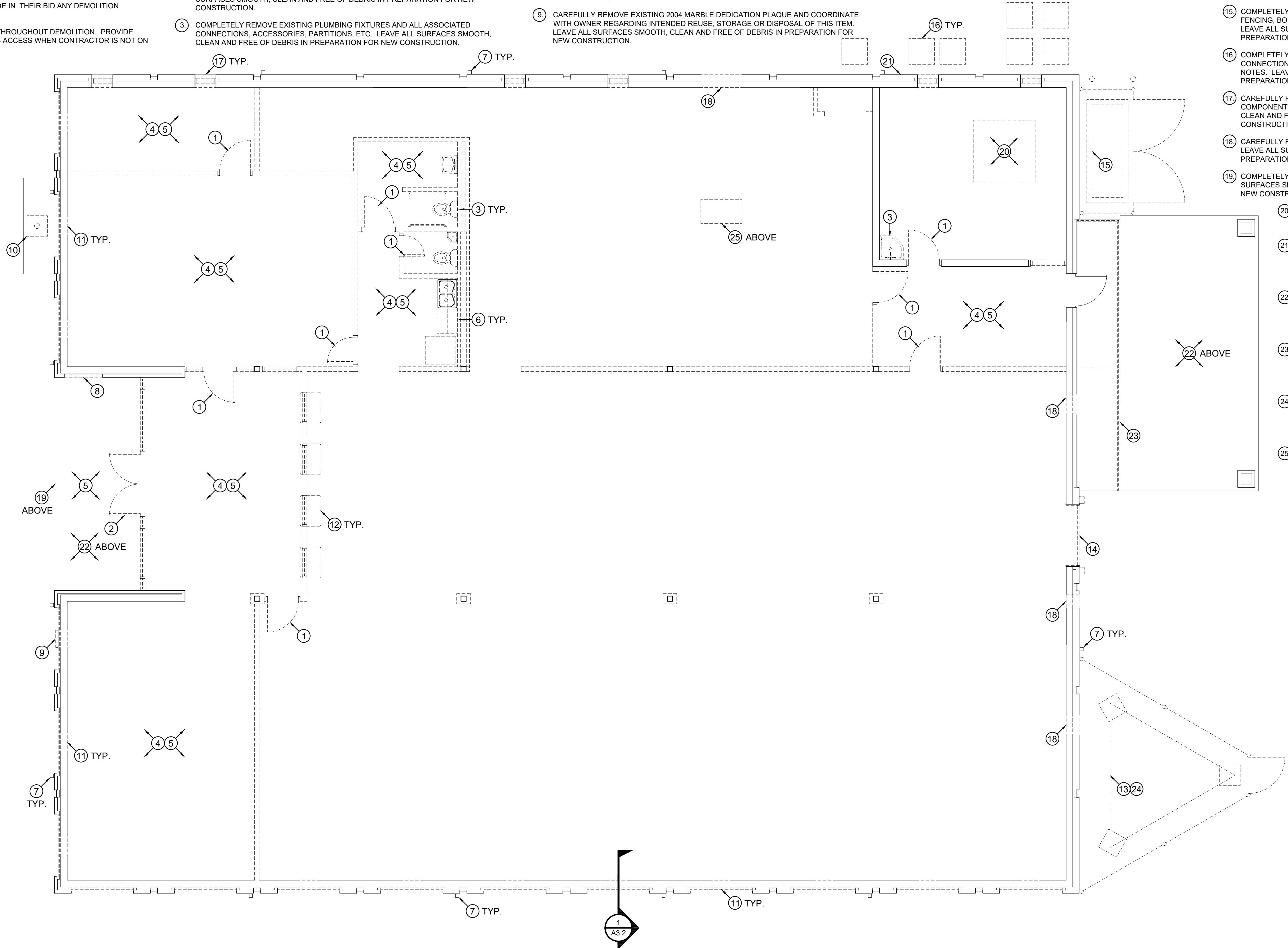
4. COMPLETELY REMOVE ACT TILES/GRID/CEILING SYSTEMS FROM THIS SPACE. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
5. COMPLETELY REMOVE EXISTING TILE/LVT/FLOOR FINISH AND ALL ASSOCIATED TRIM, BASE, THRESHOLDS, ETC. FROM THIS SPACE. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
6. CAREFULLY REMOVE EXISTING BREAKROOM CABINETRY, FIXTURES, ACCESSORIES AND APPLIANCES AND COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
7. COMPLETELY REMOVE EXISTING GUTTERS AND DOWNSPOUTS. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
8. CAREFULLY REMOVE EXISTING 1966 MARBLE DEDICATION PLAQUE AND COORDINATE WITH OWNER REGARDING INTENDED REUSE, STORAGE OR DISPOSAL OF THIS ITEM. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
9. CAREFULLY REMOVE EXISTING 2004 MARBLE DEDICATION PLAQUE AND COORDINATE WITH OWNER REGARDING INTENDED REUSE, STORAGE OR DISPOSAL OF THIS ITEM. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

KEYED DEMOLITION NOTES (CONTINUED):

10. COMPLETELY REMOVE EXISTING FLAGPOLE, CONCRETE BASE AND A PORTION OF THE LANDSCAPING IN PREPARATION FOR NEW CONSTRUCTION. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.
11. COMPLETELY REMOVE MARBLE VENEER AND PORTION OF EXISTING C.M.U. WALL. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
12. CAREFULLY REMOVE EXISTING SERVICE WINDOWS, COUNTERS AND ALL ASSOCIATED CONNECTIONS, ACCESSORIES, SUPPORTS, ETC. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.
13. COMPLETELY REMOVE EXISTING STEEL TRANSMISSION TOWER AND ALL ASSOCIATED WIRING, CONCRETE PADS, FENCING, GATES, ETC. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
14. COMPLETELY REMOVE EXISTING ROLL-UP DOOR, OPERATOR, HARDWARE, JAMBS, BUMPERS, ETC. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.

KEYED DEMOLITION NOTES (CONTINUED):

15. COMPLETELY REMOVE EXISTING GENERATOR, WIRING, CONCRETE PAD, FENCING, BOLLARDS, ETC. SEE ELECTRICAL FOR FURTHER NOTES. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
16. COMPLETELY REMOVE EXISTING HVAC EQUIPMENT, WIRING, CONNECTIONS, CONCRETE PADS, ETC. SEE MECHANICAL FOR FURTHER NOTES. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
17. CAREFULLY REMOVE EXISTING WINDOWS, SILLS AND ALL ASSOCIATED COMPONENTS, ACCESSORIES, ETC. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
18. CAREFULLY REMOVE A PORTION OF EXISTING C.M.U. AND MASONRY. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
19. COMPLETELY REMOVE EXISTING SIGNAGE/GRAPHICS. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
20. COMPLETELY REMOVE EXISTING CONCRETE EQUIPMENT PAD. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
21. CAREFULLY REMOVE EXISTING ELECTRICAL SERVICE DISCONNECT, WIRING, CONNECTIONS, ETC. SEE ELECTRICAL FOR FURTHER NOTES. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.
22. COMPLETELY REMOVE EXISTING METAL SOFFIT/CEILING PANELS AND ALL ASSOCIATED TRIM, COMPONENTS, HANGERS, ACCESSORIES, ETC. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
23. CAREFULLY REMOVE A PORTION OF EXISTING CONCRETE RAMP AND STEEL ANGLE AND REMOVE ALL EXISTING RAILING. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
24. NOTE THAT THIS DEMOLITION REQUIRES THE COMPLETE REMOVAL OF ALL TRANSMISSION TOWER WIRING, CABLING, TIES, ACCESSORIES, ETC. THROUGHOUT THE ENTIRE SPACE BETWEEN THE FLAT AND PITCHED ROOFS.
25. REMOVE EXISTING ROOF CURB AND ASSOCIATED MATERIALS AS REQUIRED TO FACILITATE INSTALLATION OF NEW ROOF ACCESS HATCH.



GENERAL RENOVATION NOTES:

*EXISTING LANDSCAPING SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AND SHOULD ONLY BE MODIFIED WHERE NOTED PER THESE DOCUMENTS.

*ALL EXTERIOR SURFACES INCLUDING EXISTING SIDEWALKS AND ASPHALT TO REMAIN SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT.

*PENETRATIONS IN THE MASONRY VENEER EXPOSED BY THE REMOVAL OF DEMOLISHED ITEMS SHALL BE PATCHED WITH MATERIALS TO MATCH.

*MASONRY VENEER SHALL BE REPAIRED AT ALL AREAS NOTED PER THESE DOCUMENTS BUT CONTRACTOR SHALL ALSO ALLOW FOR FIFTY (50) SQUARE FEET OF NEW MASONRY VENEER REPAIR/INSTALLATION TO COVER ANY UNFORESEEN NEEDS.

*SEE SHEET A4.2 FOR CASEWORK ELEVATIONS AND SHEET A4.3 FOR TYPICAL CASEWORK SECTIONS.

KEYED RENOVATION NOTES:

1. NEW FLAGPOLE AND ACCESSORIES, SEE SPECIFICATIONS. SEE ELECTRICAL FOR LIGHTING REQUIREMENTS. MOUNT FLAGPOLE IN NEW 2'-8" RADIUS CONCRETE SIDEWALK POURED FLUSH WITH EXISTING WALK AS SHOWN. SEE SIDEWALK DETAILS.
2. INFILL VOID FROM REMOVED MARBLE DEDICATION PLAQUE WITH NEW MASONRY VENEER AND PROVIDE NEW MOUNTED 3'-0" BY 3'-0" BRONZE BUILDING PLAQUE, SEE SPECIFICATIONS. FINAL WORDING OF PLAQUE CONTENTS TBD.
3. PROVIDE NEW GUARDRAIL, HANDRAILS, GATE & PORTION OF RAMP. SEE DIMENSIONS, ELEVATIONS & DETAILS ON OTHER SHEETS. FIELD VERIFY EXISTING CONDITIONS & PROVIDE FINAL ASSEMBLY IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
4. REPAIR AND REPOINT MASONRY VENEER IN THIS LOCATION. FINISH TO MATCH SURROUNDING MATERIALS AND PREPARE FOR NEW PAINT.
5. NEW 6" DIAMETER PIPE BOLLARD WITH DECORATIVE POLY COVER. SEE BOLLARD DETAIL.
6. NEW POURED CONCRETE MECHANICAL PADS (SEE DIMENSIONS AND VERIFY WITH MECHANICAL REQUIREMENTS) AND 6'-0" TALL, BLACK VINYL COATED CHAIN LINK FENCING AND GATES, SEE FENCING DETAILS.

KEYED RENOVATION NOTES (CONTINUED):

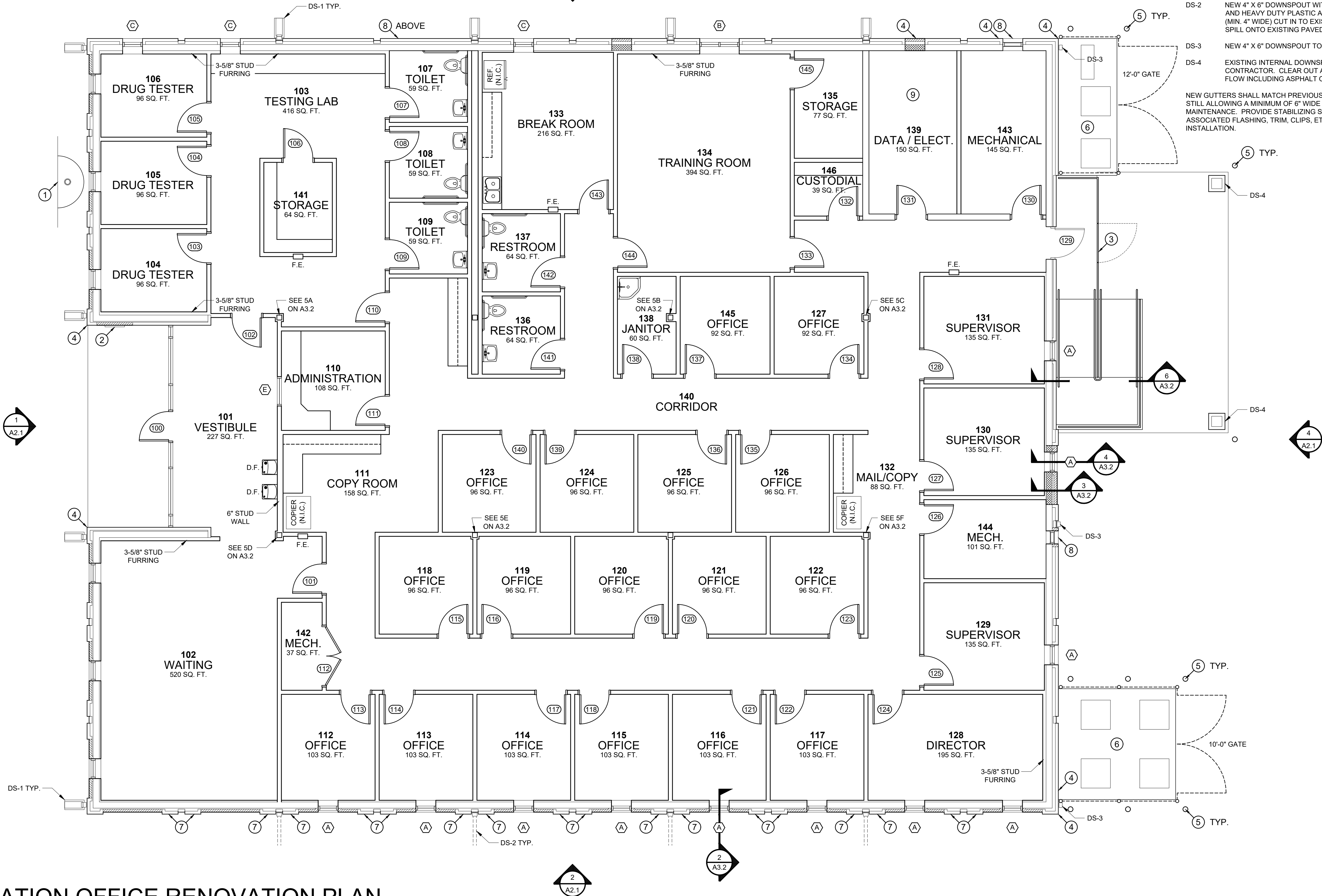
7. THE BRICK VENEER AT THE JAMBS BETWEEN THE FORMED ARCHES ON THE SOUTH ELEVATION SHALL BE STABILIZED WITH SIMPSON HELI-TIE HELICAL WALL TIES. PLACE TIES APPROXIMATELY 12" APART HORIZONTALLY AND AT VERTICAL SPACING NOT TO EXCEED 2'-0" ON CENTER. TIES SHOULD BEGIN NO HIGHER THAN 12" FROM THE BOTTOM OF THE WALL AND EXTEND VERTICALLY UNTIL THE LAST ROW OF TIES IS LOCATED NO LESS THAN 8" ABOVE THE TOP OF THE ARCH. ALL TIES SHALL BE A MINIMUM OF 11" LONG WITH A MINIMUM EMBEDMENT OF 2'-3/4" INTO THE EXISTING CMU SUBSTRATE. ALL TIES SHALL BE INSTALLED PURSUANT TO MANUFACTURER'S INSTRUCTIONS. AFTER TIES ARE INSTALLED, ALL LOOSE MORTAR SHALL BE REMOVED AND BRICK SHALL BE REPOINTED. IT IS IMPORTANT THAT THE ENTIRE JOINT IS REPOINTED SUCH THAT THE EXISTING CORRUGATED TIES ARE NO LONGER EXPOSED TO THE ELEMENTS. THE BRICK VENEER SHALL BE PAINTED ONCE THIS WORK IS COMPLETED. SEE DETAIL ON ELEVATION SHEET.
8. HVAC LOUVER, SEE MECHANICAL. INSTALL IN WALL AND MASONRY VENEER AND FINISH TO MATCH SURROUNDING MATERIALS.
9. APPROXIMATE LAYOUT OF LOW VOLTAGE RACKS AND EQUIPMENT AND REQUIRED CLEARANCES, SEE SPECIFICATIONS AND ELECTRICAL FOR FURTHER INFORMATION.

PLAN LEGEND

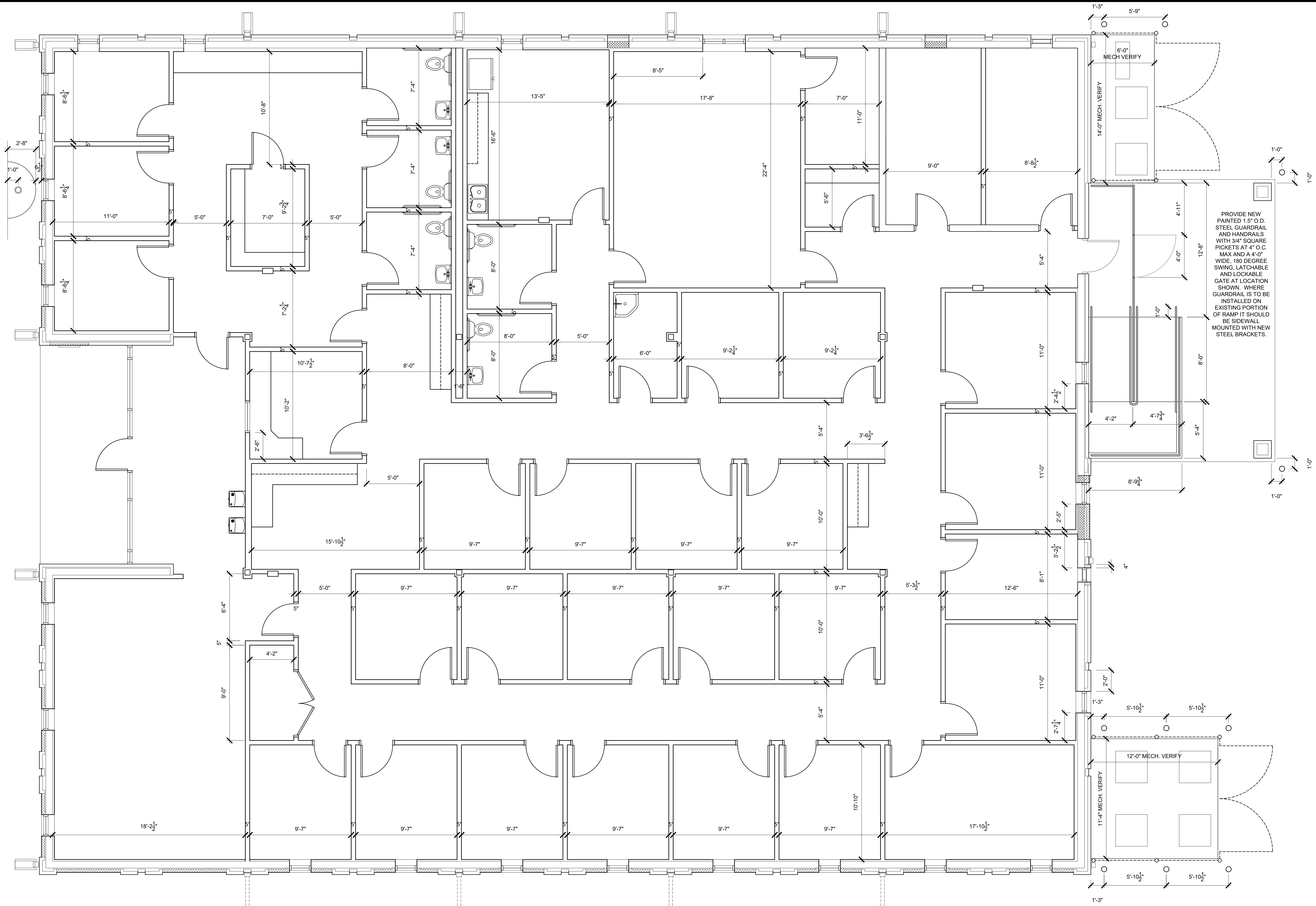
(100) - DOOR NUMBER TAG	- NEW CMU WALL WITH GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
(A) - NEW WINDOW TYPE TAG	- NEW 5/8" GYP BD. AND 3-5/8" METAL STUD PARTITION TO EXTEND 1'-0" ABOVE CEILING UNLESS NOTED OTHERWISE. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
- TYPICAL WINDOW	F.E. - FIRE EXTINGUISHER AND CABINET
- EXISTING WALL - CONSTRUCTION OF WALL VARIES. FIELD VERIFY.	N.I.C. - NOT IN CONTRACT
- EXISTING WALL TO RECEIVE NEW GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.	D.F. - DRINKING FOUNTAIN. SEE PLUMBING.

GUTTER AND DOWNSPOUT NOTES:

- DS-1 NEW 4" X 6" DOWNSPOUT WITH 1'-0"W X 2'-0"L PRECAST SPLASHBLOCK. REPAIR ERODED LANDSCAPING AT FORMER DOWNSPOUT LOCATIONS WITH NEW TOPSOIL AND PINESTRAW. PROVIDE 3" DEEP BY 2'-0" SQUARE AT NEW SPLASHBLOCK DISCHARGE LOCATIONS.
- DS-2 NEW 4" X 6" DOWNSPOUT WITH PVC BOOT TIED TO NDS CHANNEL DRAIN AND HEAVY DUTY PLASTIC A.D.A. HEELPROOF DRAINAGE GRATE (MIN. 4" WIDE) CUT IN TO EXISTING SIDEWALK AND CAST IN PLACE TO SPILL ONTO EXISTING PAVED DRIVE.
- DS-3 NEW 4" X 6" DOWNSPOUT TO SPILL ONTO EXISTING PAVED DRIVE.
- DS-4 EXISTING INTERNAL DOWNSPOUT TO BE CLEANED OUT BY CONTRACTOR. CLEAR OUT ANY DEBRIS IN THE PATH OF WATER FLOW INCLUDING ASPHALT OVERLAY AT DISCHARGE POINT.
- NEW GUTTERS SHALL MATCH PREVIOUS PROFILE AS CLOSELY AS POSSIBLE WHILE STILL ALLOWING A MINIMUM OF 6" WIDE ACCESS AT TOP FOR CLEANING AND MAINTENANCE. PROVIDE STABILIZING STRAPS EVERY 4'-0" O.C. MAX AND ALL ASSOCIATED FLASHING, TRIM, CLIPS, ETC. REQUIRED FOR A COMPLETE INSTALLATION.



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1 PROBATION OFFICE DIMENSION PLAN
SCALE: 1/4" = 1'-0"
7,270 S.F. GROSS

FOR CONSTRUCTION

PROJECT NUMBER
23-001

DATE
05/15/23

REVISIONS
NO. DATE
0000 00/00/00

FACILITY CODE
000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
PROBATION OFFICE
400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX
DIMENSION
PLAN

SHEET INDEX

A1.2

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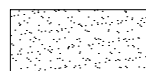
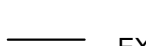

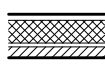
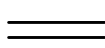


KEYED REFLECTED CEILING PLAN NOTES:

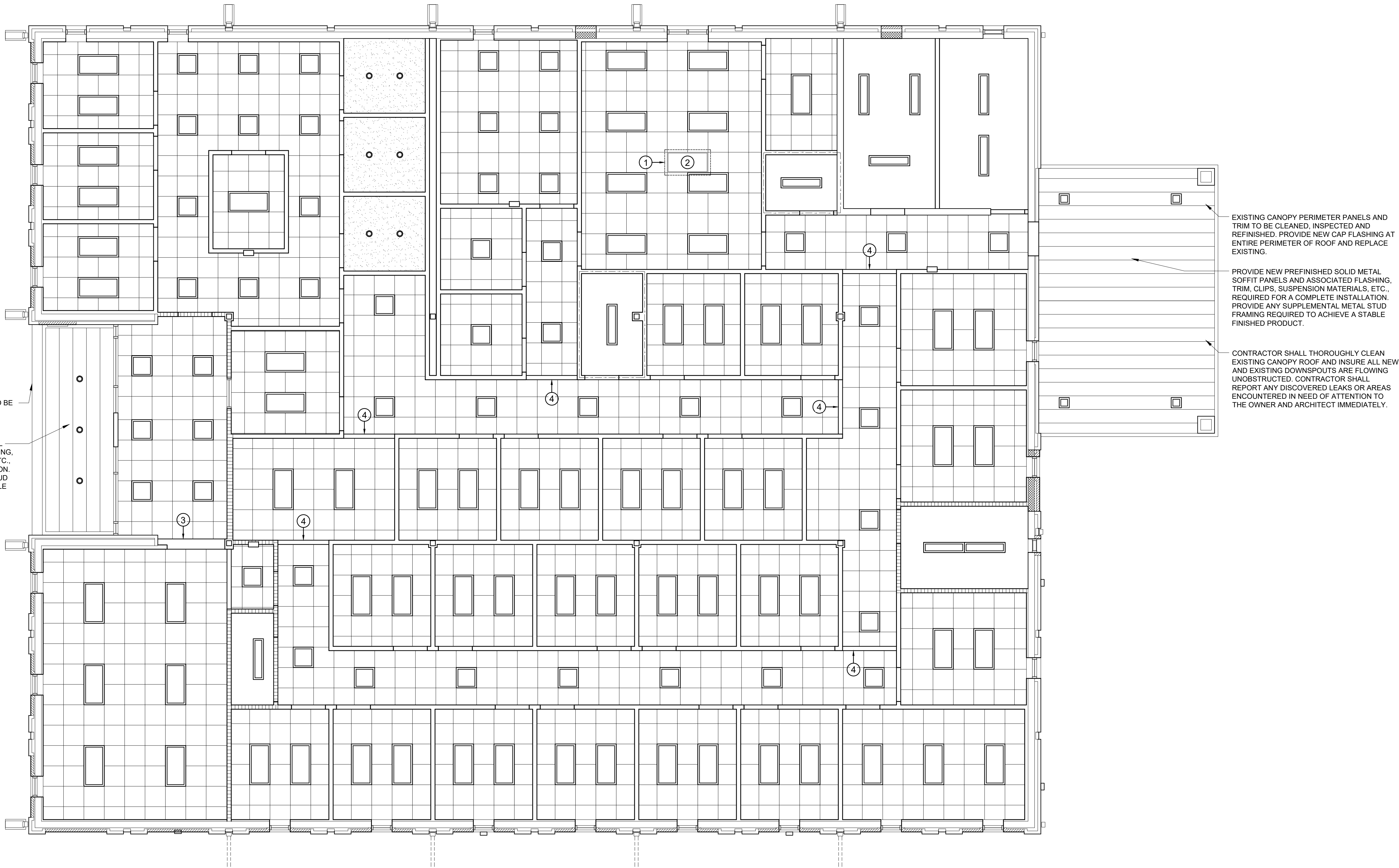
1. PROVIDE NEW BILCO TYPE NB-50TB SINGLE LEAF ROOF ACCESS HATCH, SIZED 30" X 54" WITH BILCO BIL-GUARD 2.0 HATCH SAFETY RAILING SYSTEM. FIELD VERIFY LOCATION OF EXISTING ROOFING MEMBERS AND INSTALL NEW HATCH IN APPROXIMATELY THE SAME LOCATION AS THE DEMOLISHED ROOF CURB. PROVIDE ALL REQUIRED STEEL ANGLES, CLIPS, FASTENERS, INSULATION PRODUCTS, ACCESSORIES, ETC. REQUIRED TO FULLY INSTALL AND INSULATE THIS PRODUCT.
2. PROVIDE NEW ACCESS PANEL OF WHITE PLASTIC LAMINATE FUSED TO MINIMUM 1/4" THICK PLYWOOD, SIZED 23-7/8" X 47-7/8". INSTALL CEILING GRID SYSTEM IN SUCH A MANNER THAT THIS CEILING ACCESS PANEL SHALL BE CENTERED BELOW THE NEW ROOF ACCESS HATCH ABOVE.
3. NEW GYPSUM ON METAL STUD HEADER, BOTTOM AT 8'-0" A.F.F. MATCH WIDTH OF FRAMED OUT COLUMN.
4. NEW GYPSUM ON METAL STUD HEADER, BOTTOM AT 8'-0" A.F.F. NOMINAL 5" WIDE.

GENERAL REFLECTED CEILING PLAN NOTES:

- *ELECTRICAL AND MECHANICAL DEVICES SHOWN ON THESE PLANS ARE DIAGRAMMATIC ONLY. SEE ENGINEERING DRAWINGS FOR FURTHER INFORMATION.
- *SPACES SHOWN WITHOUT ACT OR GYP CEILING SYSTEMS SHALL BE OPEN TO STRUCTURE ABOVE. SPACES WITH EXPOSED OPEN STRUCTURE SHALL BE THOROUGHLY CLEANED AND FULLY PAINTED.
- *ANY VOIDS IN EXISTING CMU WALL TO BE RATED MUST BE IMPROVED/REPAIRED TO MEET ALL RATING REQUIREMENTS.
- *EXISTING PREFINISHED METAL SOFFIT, CANOPY, ROOFING, TRIM, ETC. TO BE REPAINTED SHALL BE THOROUGHLY CLEANED AND INSPECTED FOR ANY AREAS IN NEED OF REPAIR. REPORT ANY AREAS DISCOVERED IN NEED OF ATTENTION TO THE OWNER AND ARCHITECT IMMEDIATELY.

PLAN LEGEND

-  - NEW ACOUSTICAL TILE CEILING
-  - NEW GYPSUM CEILING
-  - EXISTING WALL - CONSTRUCTION OF WALL VARIES. FIELD VERIFY.
-  - EXISTING WALL TO RECEIVE NEW GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
-  - NEW CMU WALL WITH GYP ON 1.5" METAL FURRING STRIPS AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
-  - NEW 5/8" GYP BD. AND 3-5/8" METAL STUD PARTITION TO EXTEND 1'-0" ABOVE CEILING UNLESS NOTED OTHERWISE. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
-  - ONE HOUR RATED PARTITION SEALED TIGHT TO DECK PER U.L. DESIGNS #U419 OR #U905. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
-  - NEW 5/8" GYP BD. AND 3-5/8" METAL STUD PARTITION WITH FULL THICK SOUND BATT INSULATION EXTENDED TO DECK. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.



GENERAL ELEVATION NOTES:

*EXISTING LANDSCAPING NOT SHOWN FOR ELEVATIONAL CLARITY.

*ALL EXISTING MARBLE VENEER TO REMAIN SHALL BE UNPAINTED.

*SINCE EXISTING AND NEW BRICK VENEER SHALL BE FULLY PAINTED, NEW BRICK MATERIALS USED MUST MATCH EXISTING BRICK IN SIZE AND FINISH BUT NOT RAW COLOR.

*WHERE EXISTING MATERIALS ARE PATCHED WITH NEW, PROVIDE A SEAMLESS TRANSITION WHENEVER POSSIBLE.

*ALL NEW OR PATCHED CONCRETE FLATWORK MUST SLOPE AWAY FROM THE BUILDING.

KEYED ELEVATION NOTES:

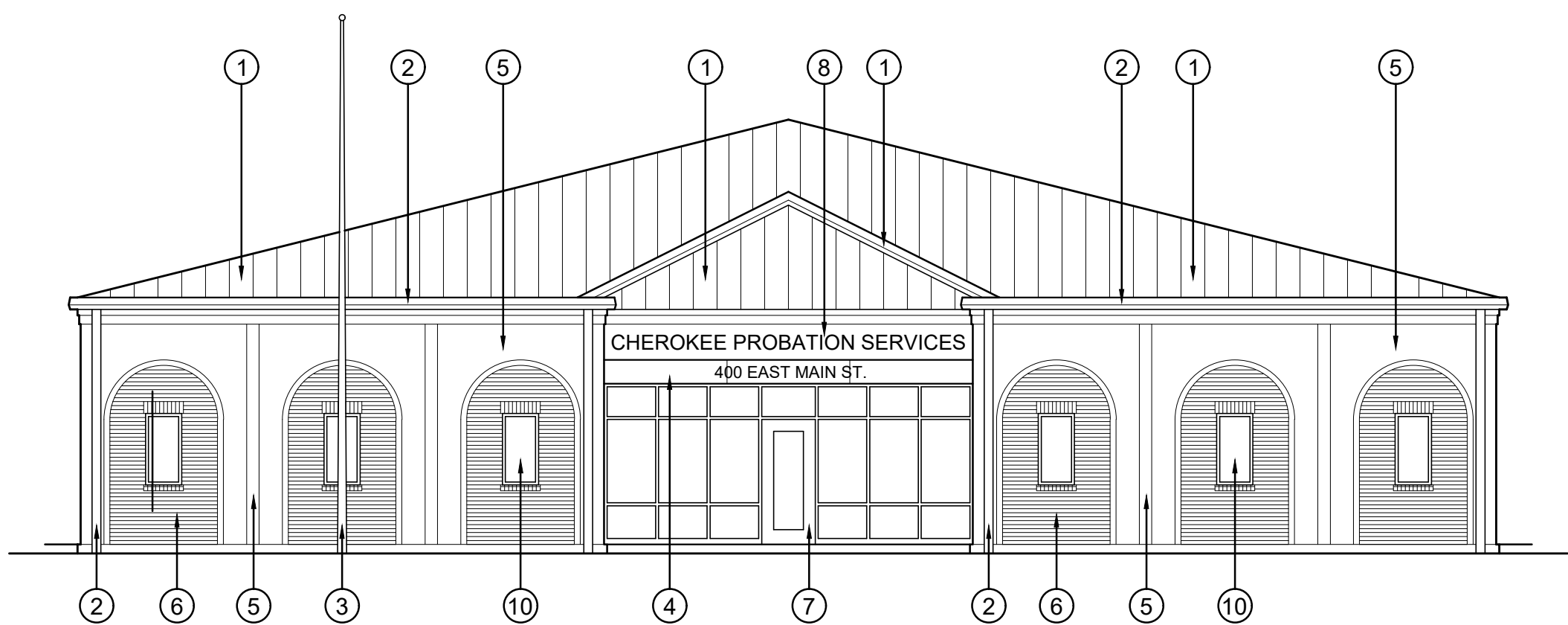
- 1 EXISTING ROOFING, PANELS, CANOPY, TRIM, FLASHING, ETC. TO BE REPAINTED. OWNER AND ARCHITECT SHALL SELECT ONE MAIN COLOR AND UP TO TWO ACCENT COLORS FROM MANUFACTURER'S FULL RANGE.
- 2 NEW PREFINISHED GUTTER AND DOWNSPOUTS.
- 3 NEW PREFINISHED FLAGPOLE AND ACCESSORIES.
- 4 EXISTING MARBLE VENEER TO REMAIN. CLEAN AND REAPPLY SEALANT AT ALL JOINTS.
- 5 EXISTING BRICK VENEER TO BE PAINTED. OWNER AND ARCHITECT SHALL SELECT ONE MAIN COLOR AND UP TO THREE ACCENT COLORS FROM MANUFACTURER'S FULL RANGE.
- 6 NEW BRICK VENEER TO BE PAINTED. OWNER AND ARCHITECT SHALL SELECT ONE MAIN COLOR AND UP TO THREE ACCENT COLORS FROM MANUFACTURER'S FULL RANGE.
- 7 NEW PREFINISHED ALUMINUM STOREFRONT ENTRANCE SYSTEM.

KEYED ELEVATION NOTES (CONTINUED):

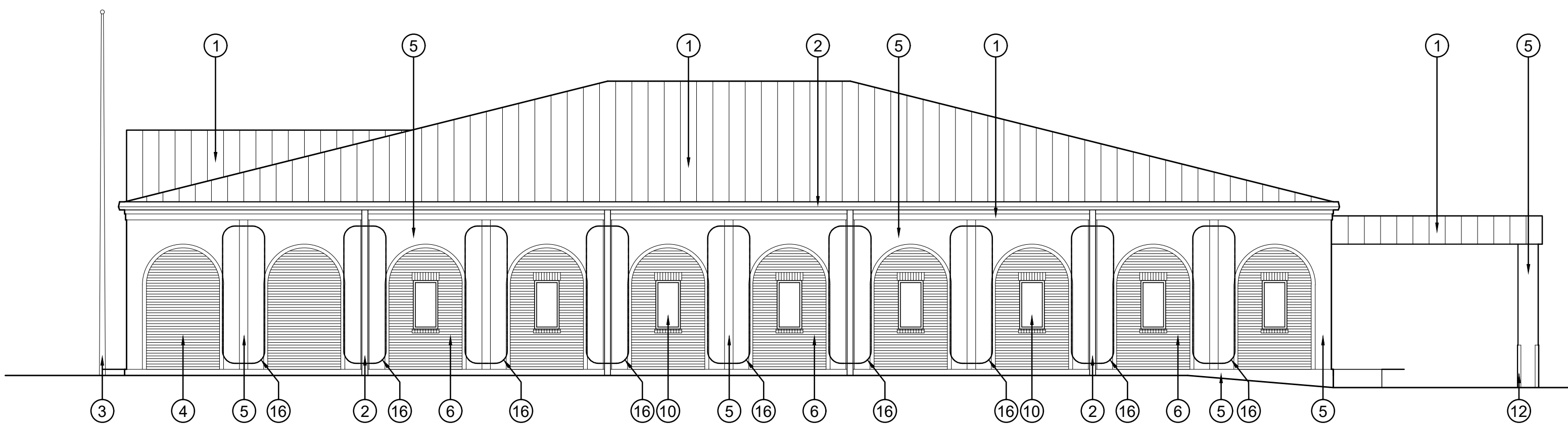
- 8 NEW CAST ALUMINUM BUILDING SIGNAGE MOUNTED ON STAND-OFFS. MAIN LETTERING 10" TALL MINIMUM, ADDRESS LETTERING 8" TALL MINIMUM. OWNER SHALL APPROVE FINAL SIGNAGE WORDING AND FONT TYPE.
- 9 NEW RAILINGS AND GATE TO BE PAINTED.
- 10 NEW PREFINISHED ALUMINUM STOREFRONT WINDOW WITH NEW BRICK ROWLOCK SILL AND BRICK SOLDIER HEAD.
- 11 NEW PREFINISHED ALUMINUM STOREFRONT WINDOW ON EXISTING BRICK ROWLOCK SILL WITH NEW BRICK SOLDIER HEAD.
- 12 EXISTING STEEL ANGLE TO BE REPAINTED.
- 13 MECHANICAL LOUVER. SEE ENGINEERING DRAWINGS.
- 14 NEW 6'-0" TALL BLACK VINYL COATED CHAIN LINK FENCING AT MECHANICAL YARDS. SHOWN IN OUTLINE ONLY FOR ELEVATIONAL CLARITY. SEE FENCING DETAILS.

KEYED ELEVATION NOTES (CONTINUED):

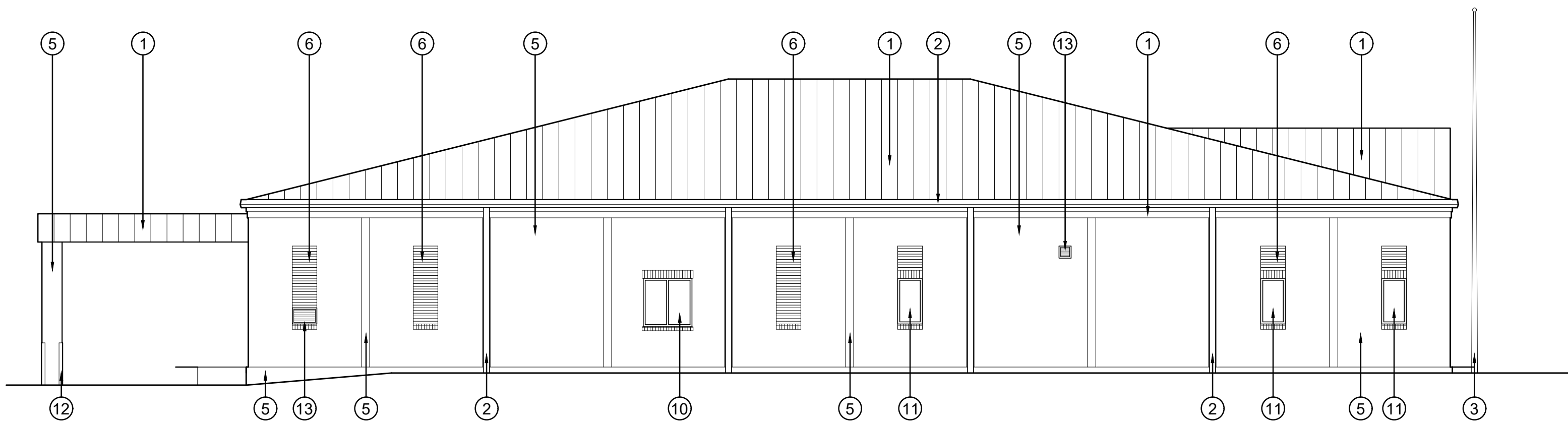
- 15 EXISTING HOLLOW METAL DOOR AND FRAME TO BE REPAINTED.
- 16 AREA REQUIRING BRICK STABILIZATION WITH SIMPSON HELI-TIES. SEE NOTES ON SHEET A1.1 AND THE ASSOCIATED DETAIL BELOW.



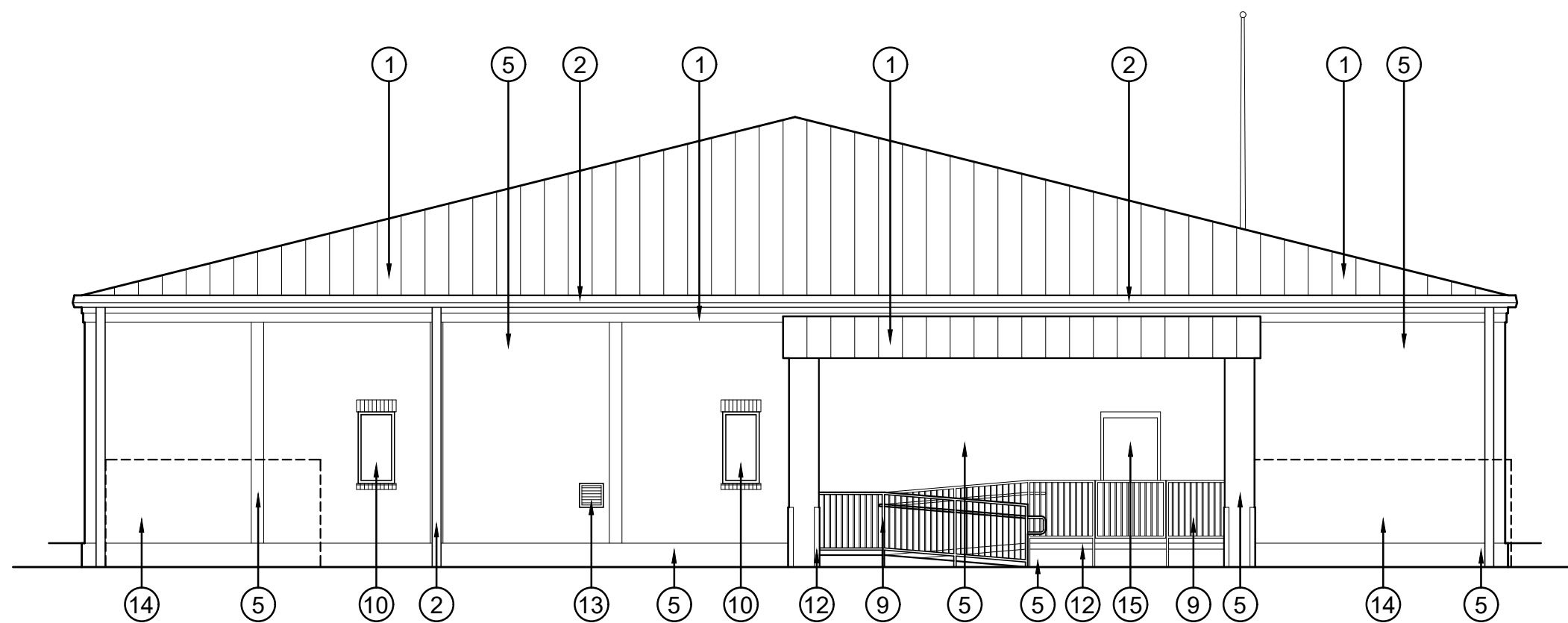
1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



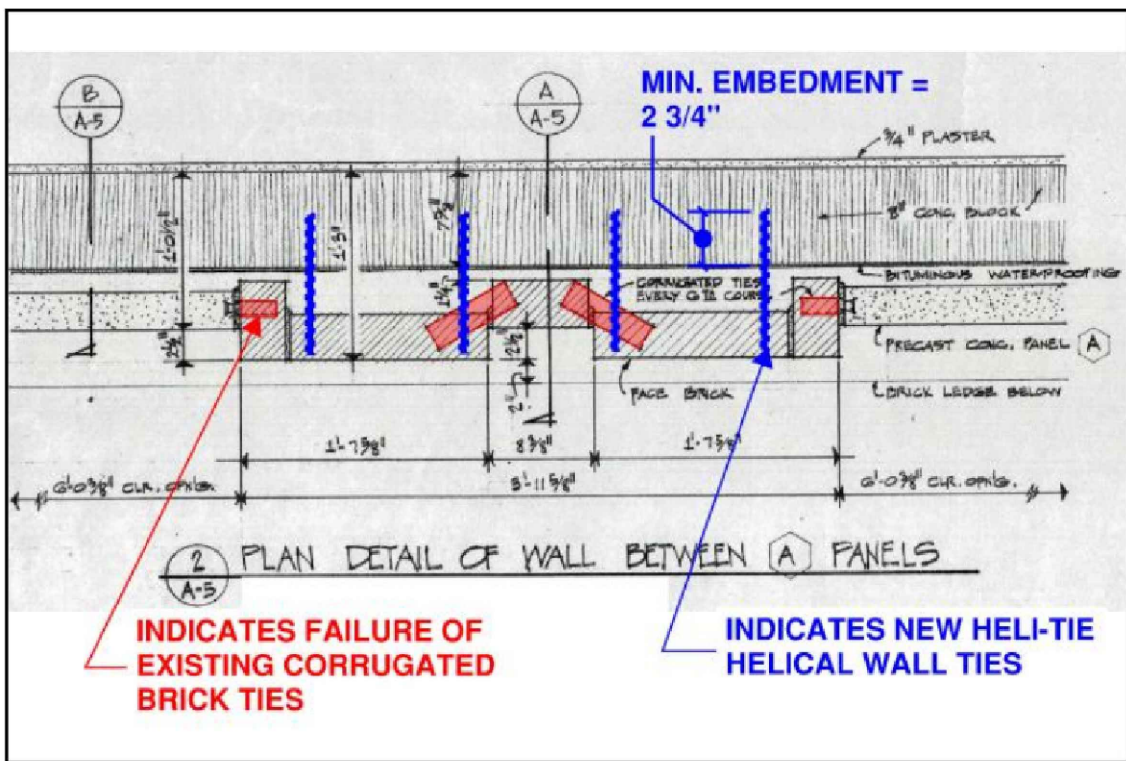
2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



4 WEST ELEVATION
SCALE: 1/8" = 1'-0"



5 BRICK STABILIZATION DETAIL
SCALE: N.T.S.

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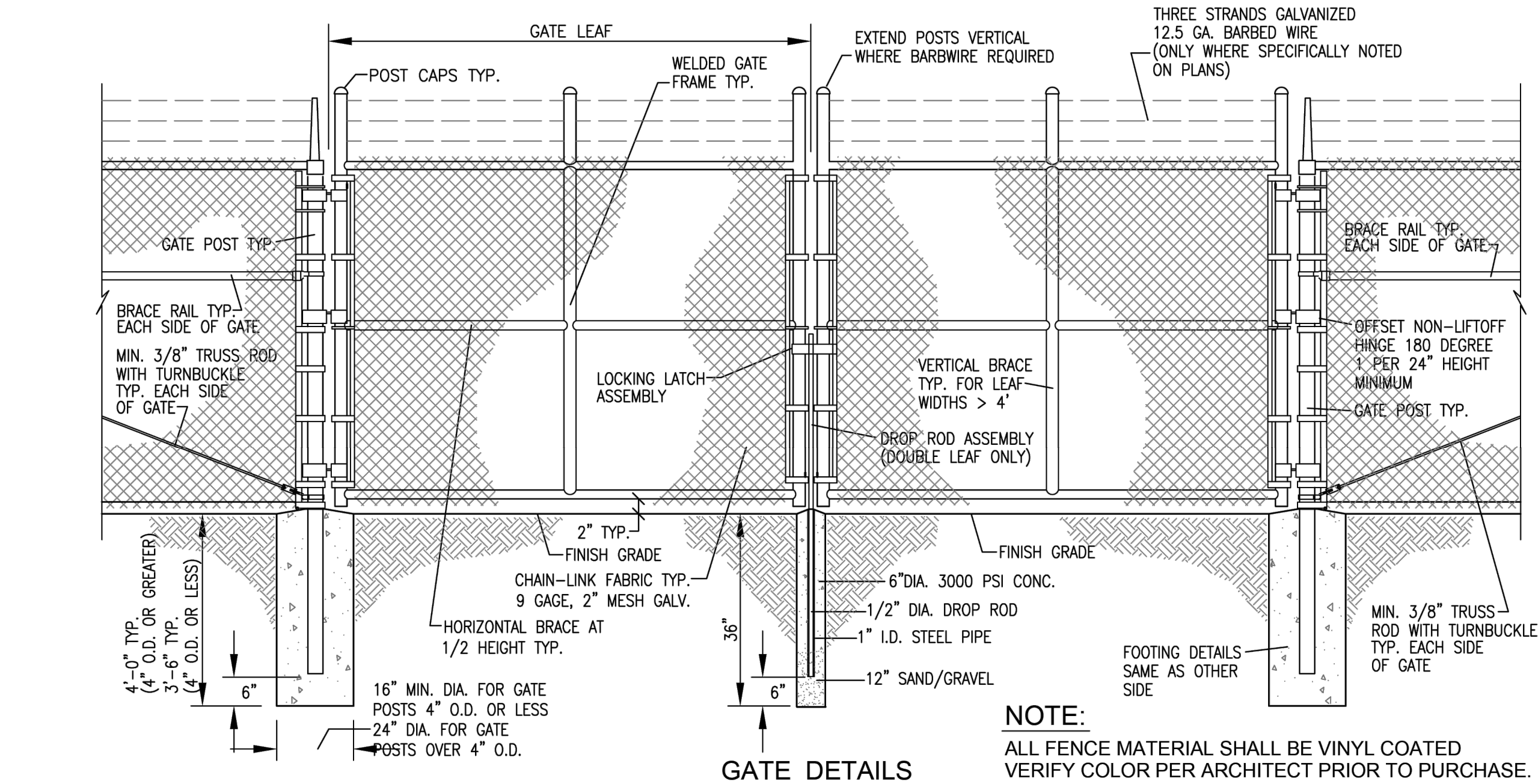


SHEET INDEX
ELEVATIONS

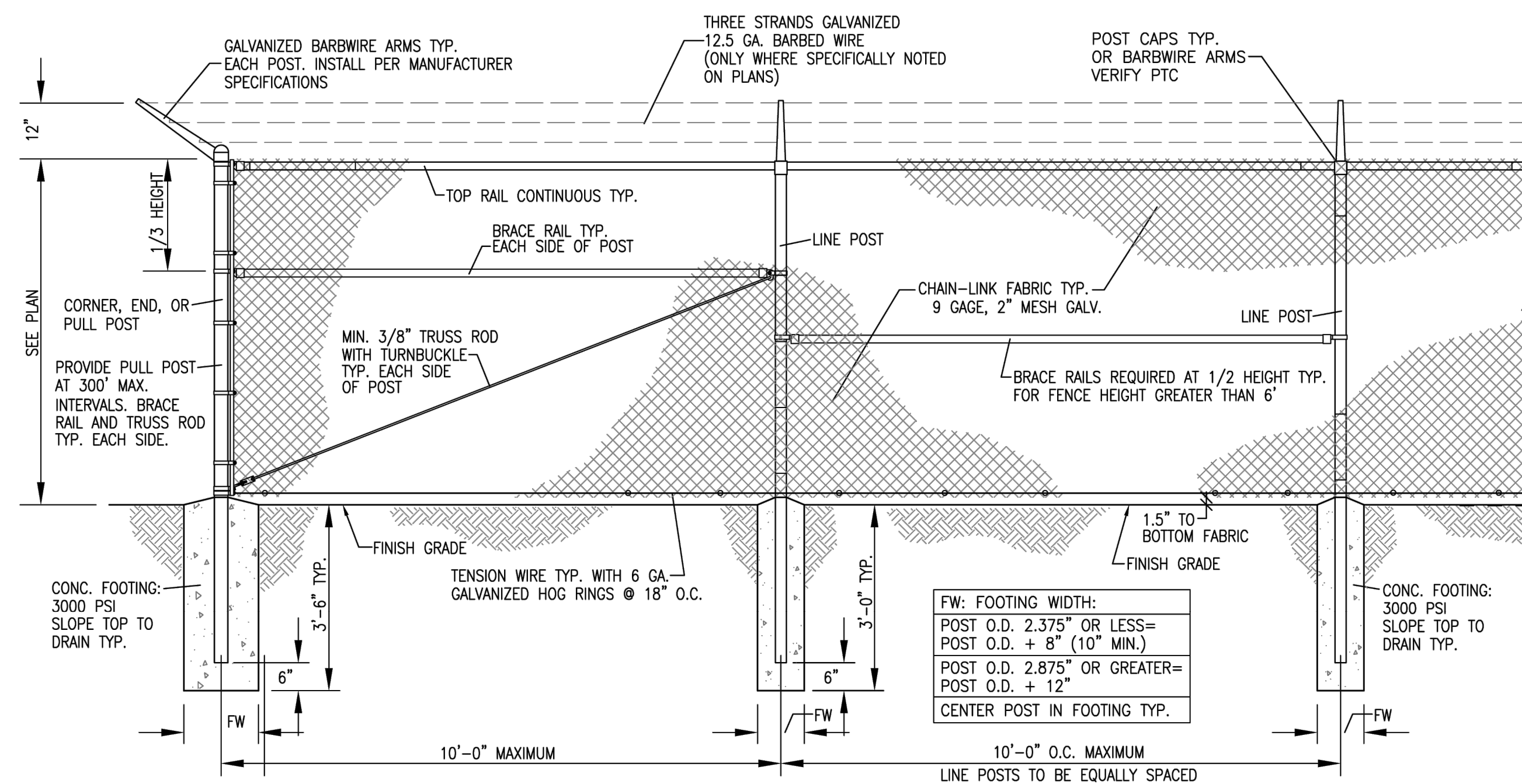
SHEET INDEX

A2.1

FOR CONSTRUCTION



NOTE:
ALL FENCE MATERIAL SHALL BE VINYL COATED
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.

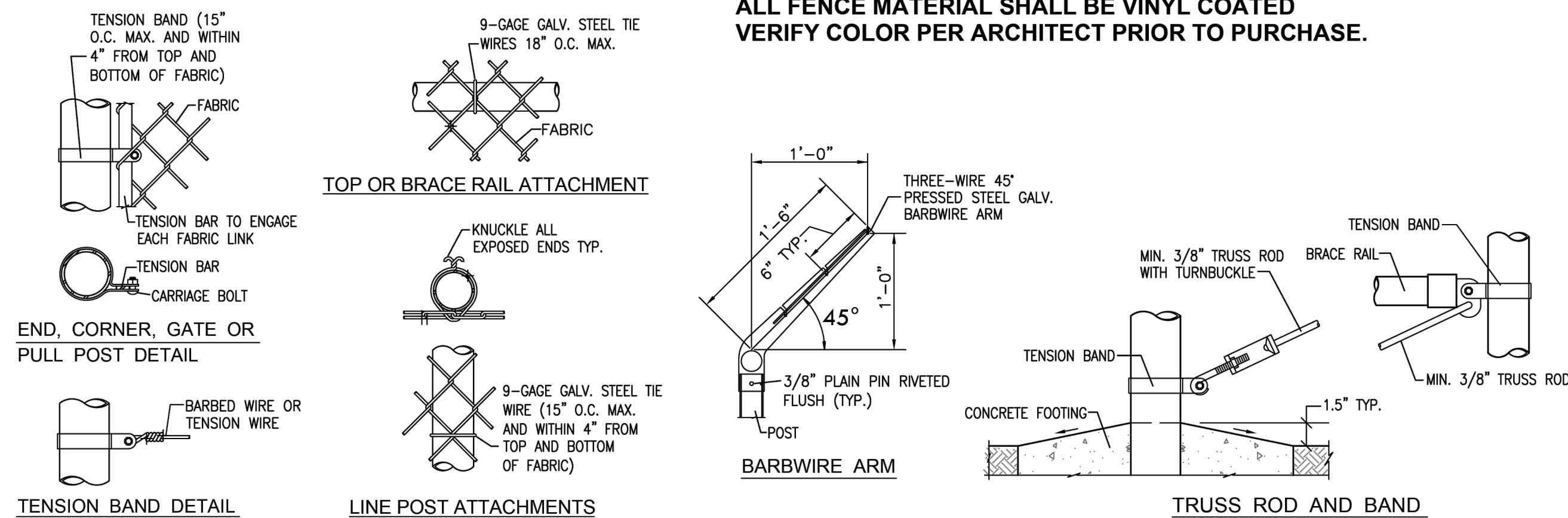


POST & RAIL SCHEDULE			
TYPE	FENCE HEIGHT 6' OR LESS	FENCE HEIGHT 6' TO 8'	FENCE HEIGHT OVER 8'
CORNER, END, TERMINAL & PULL POST	2.875" O.D.	2.875" O.D.	4.00" O.D.
LINE POST	1.90" O.D.	2.375" O.D.	2.875" O.D.
TOP, BOTTOM & BRACE RAIL	1.66" O.D.	1.66" O.D.	1.66" O.D.

FENCE DETAILS

GATE POST SCHEDULE	
GATE LEAF WIDTH	POST
6' OR LESS	2.875" O.D.
6' TO 12'	4.00" O.D.
12' TO 18'	6.625" O.D.

NOTE:
ALL FENCE MATERIAL SHALL BE VINYL COATED
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.

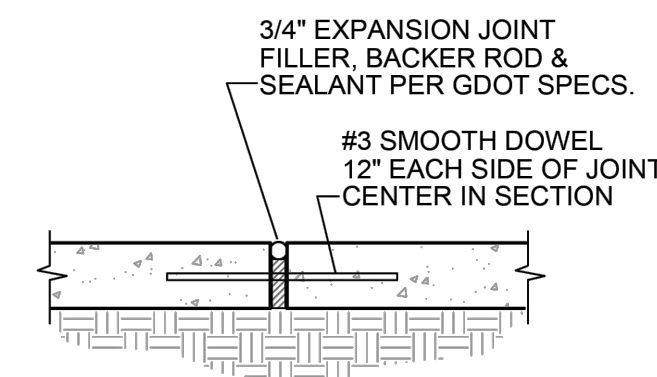
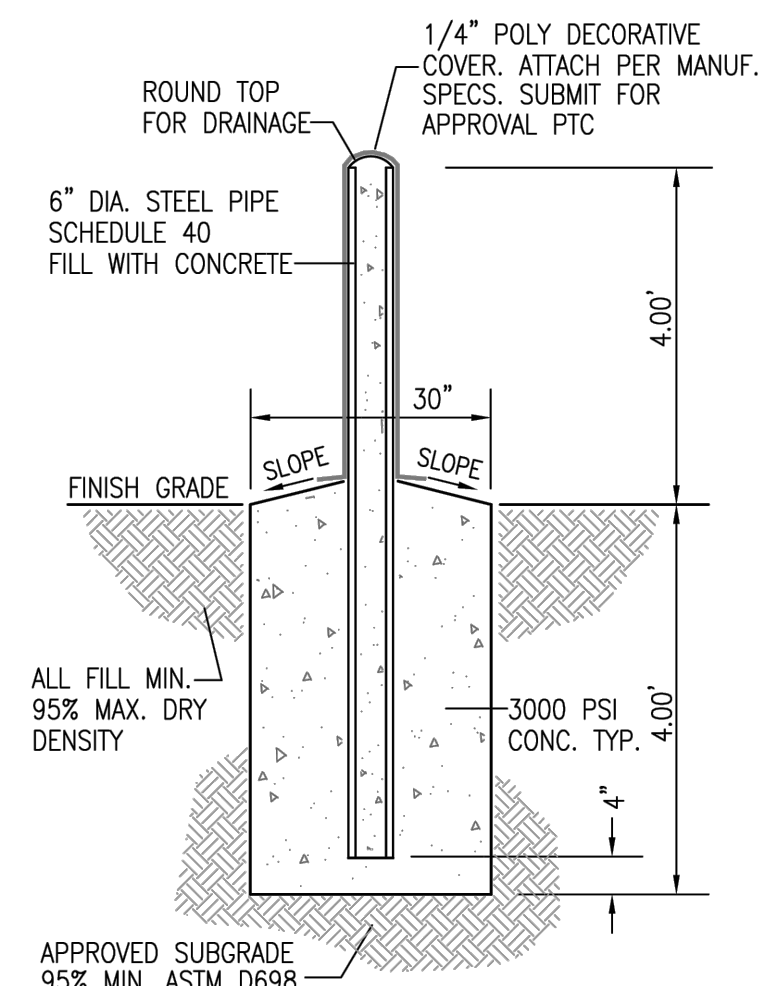


1 CHAIN LINK FENCING DETAILS

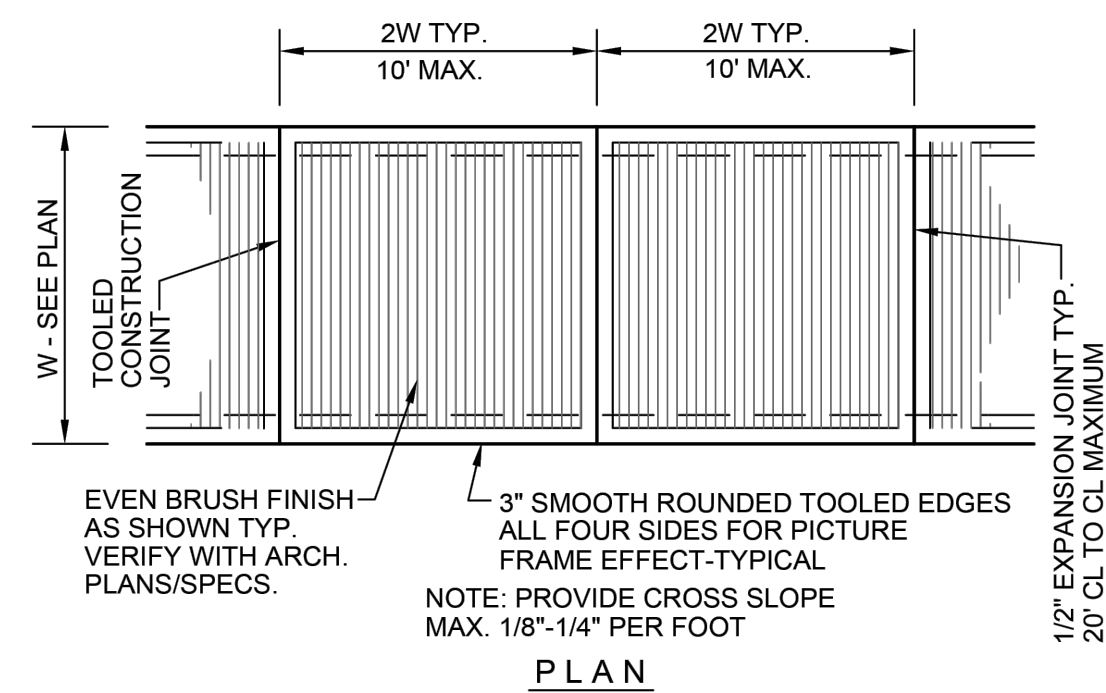
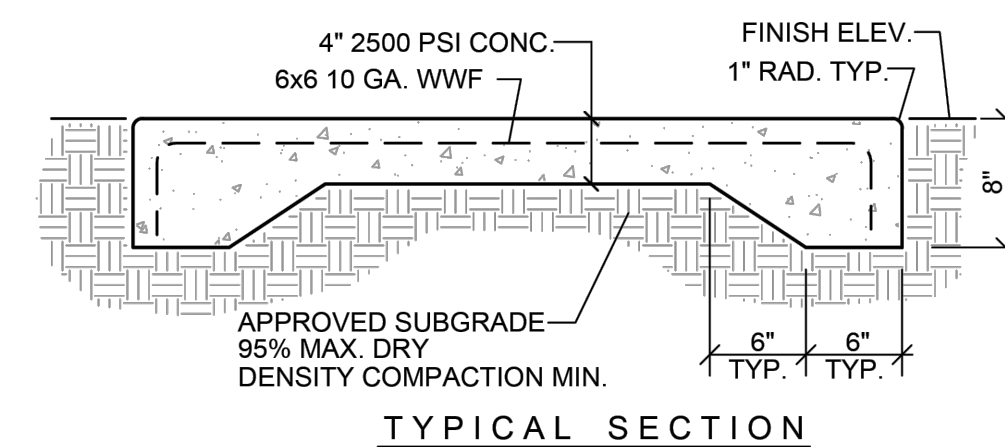
SCALE: N.T.S.

2 PIPE BOLLARD DETAIL

SCALE: N.T.S.



(SW) EXPANSION JOINT (SIDEWALKS ONLY)



3 SIDEWALK DETAILS

SCALE: N.T.S.

PROJECT NUMBER
23-001

DATE
05/15/23

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0000 00/00/00

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400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS



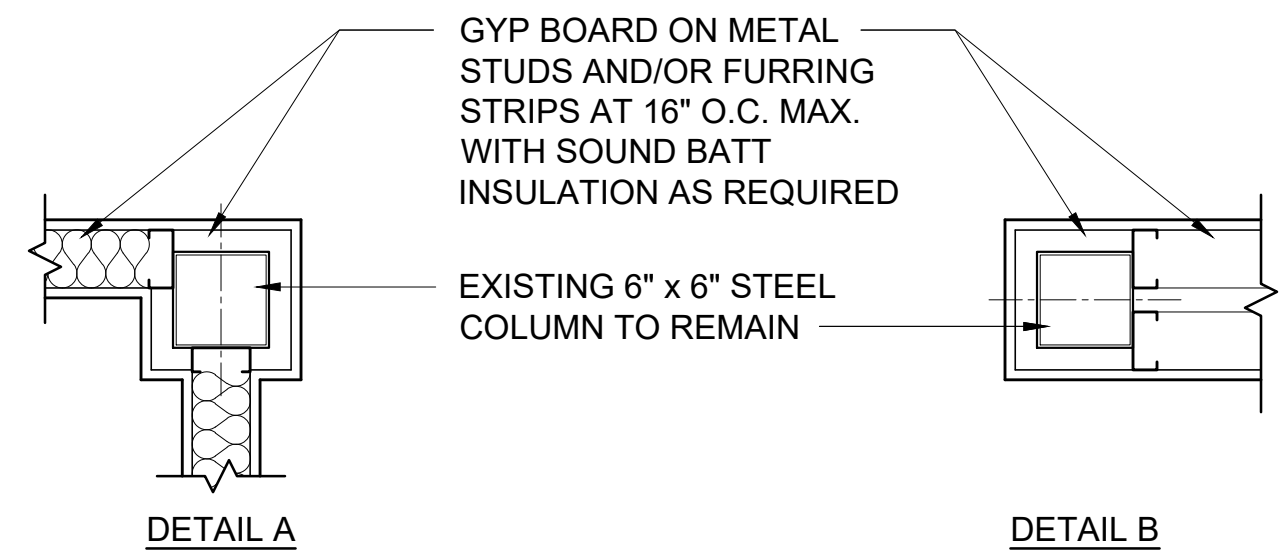
SHEET INDEX
SECTIONS AND
DETAILS

SHEET INDEX

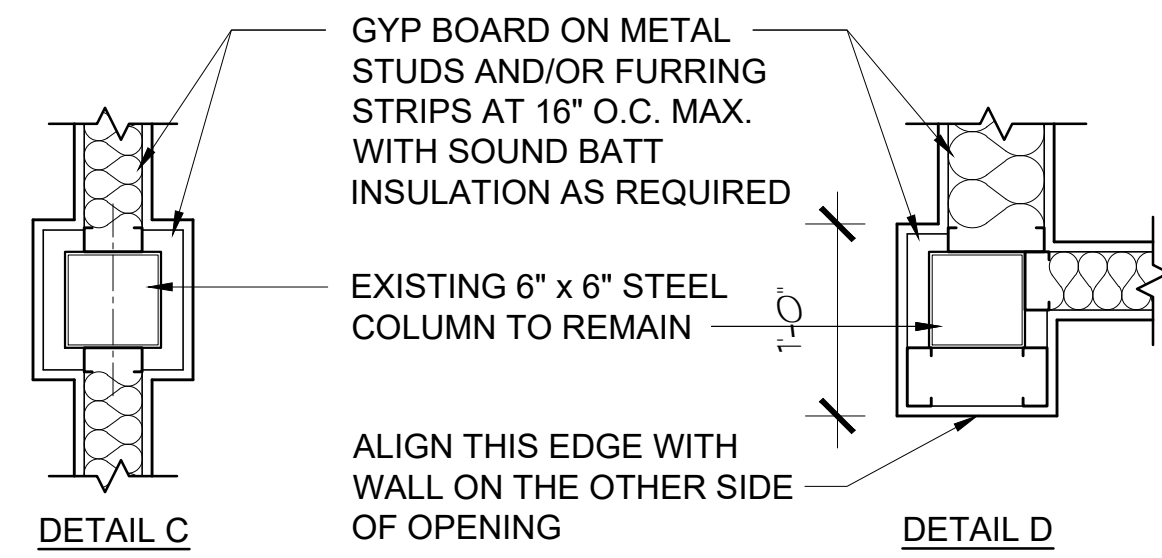
A3.1

FOR CONSTRUCTION

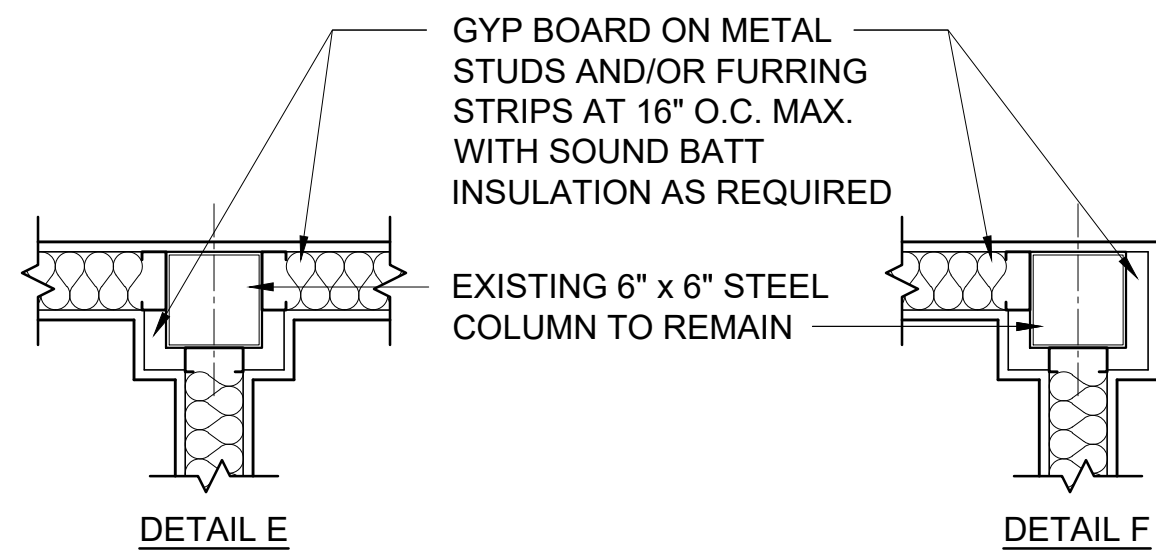
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DETAIL B



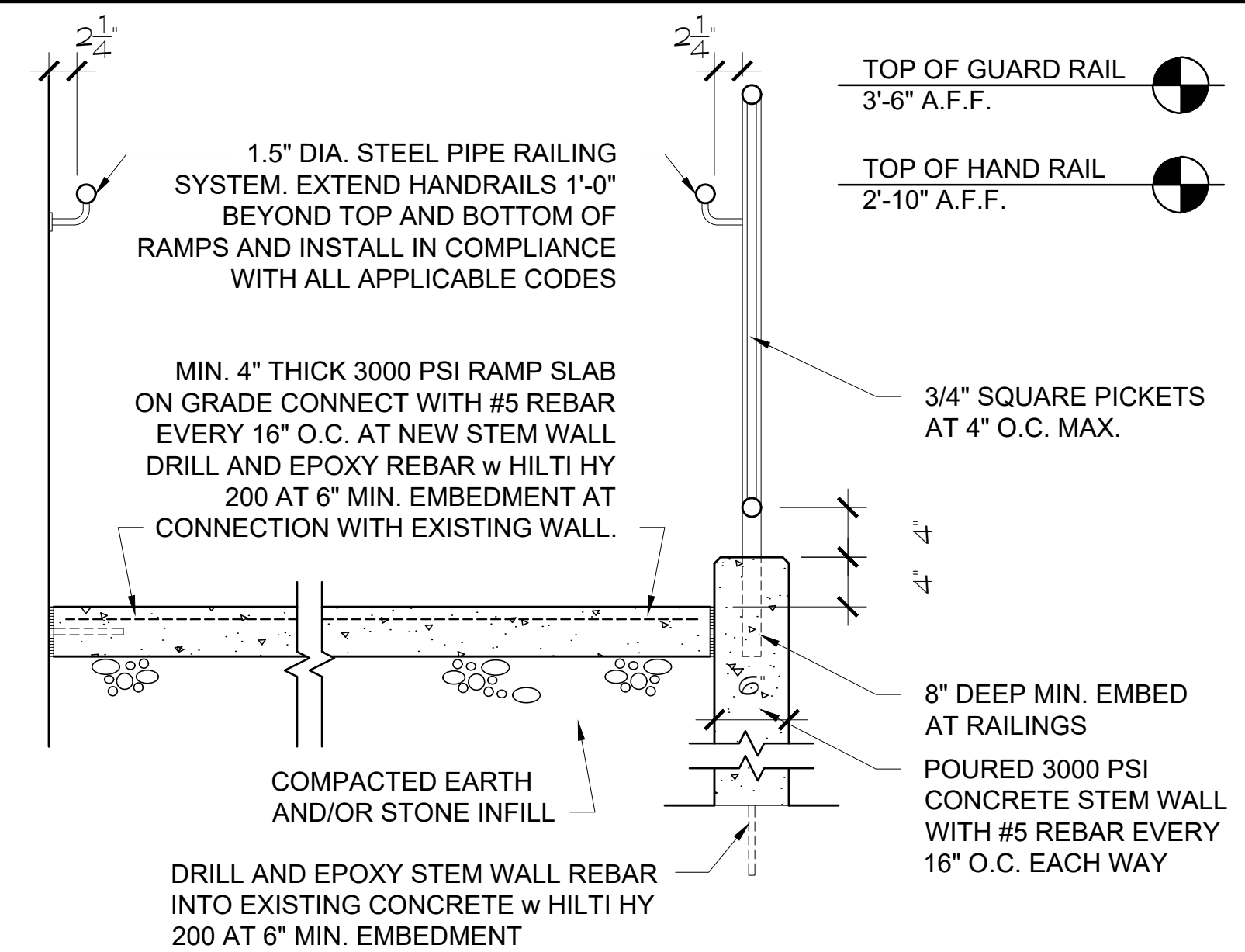
DETAIL D



DETAIL F

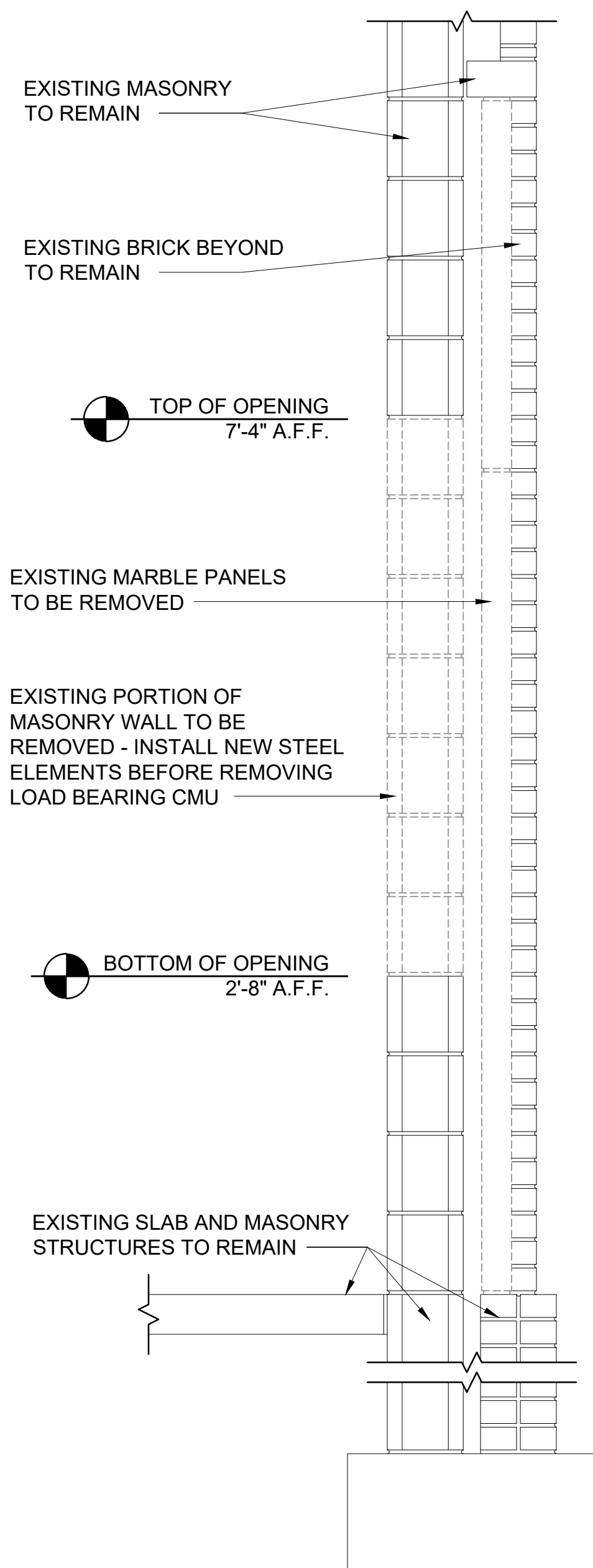
5 PLAN DETAILS

SCALE: 1" = 1'-0"



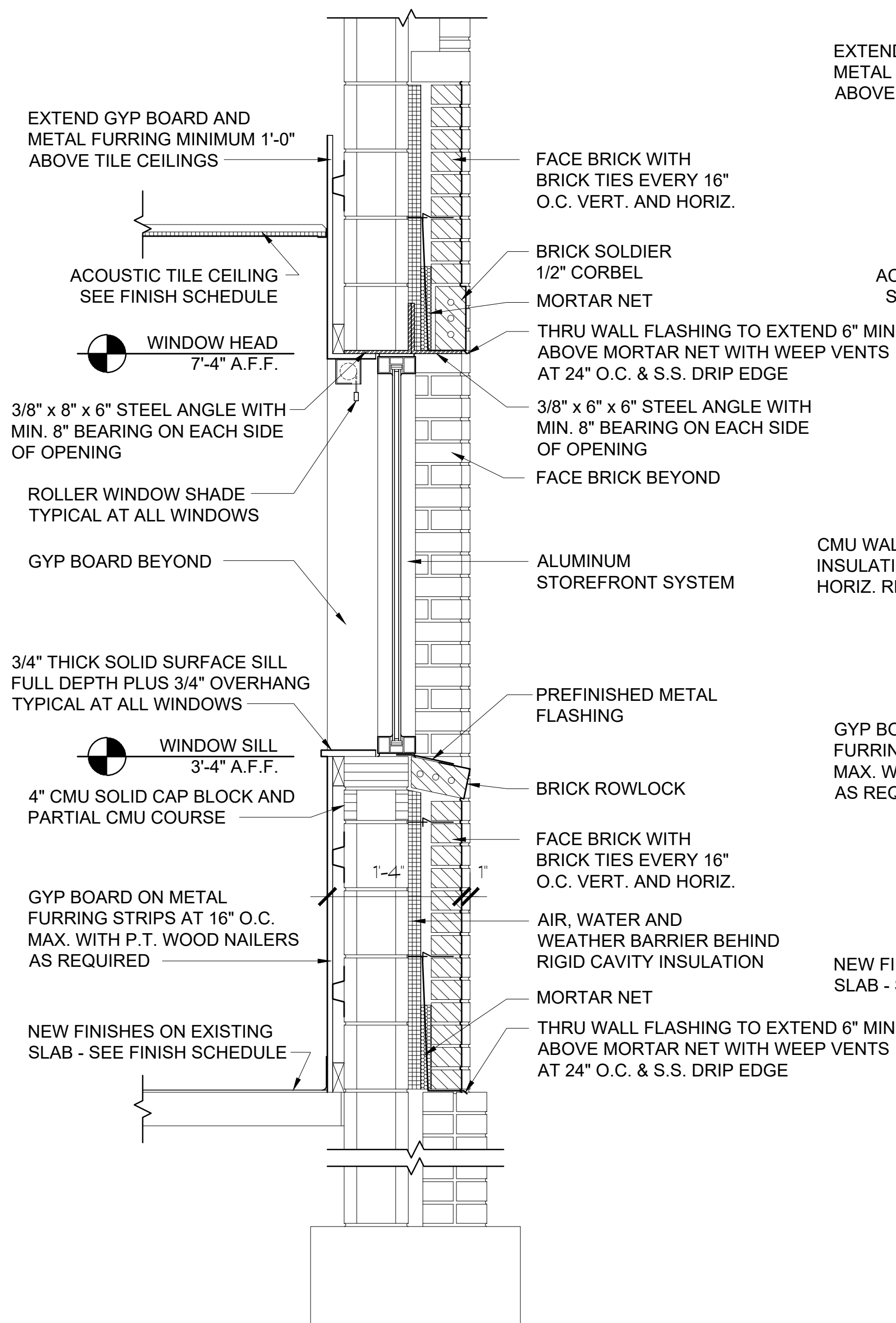
6 RAMP DETAILS

SCALE: 1" = 1'-0"



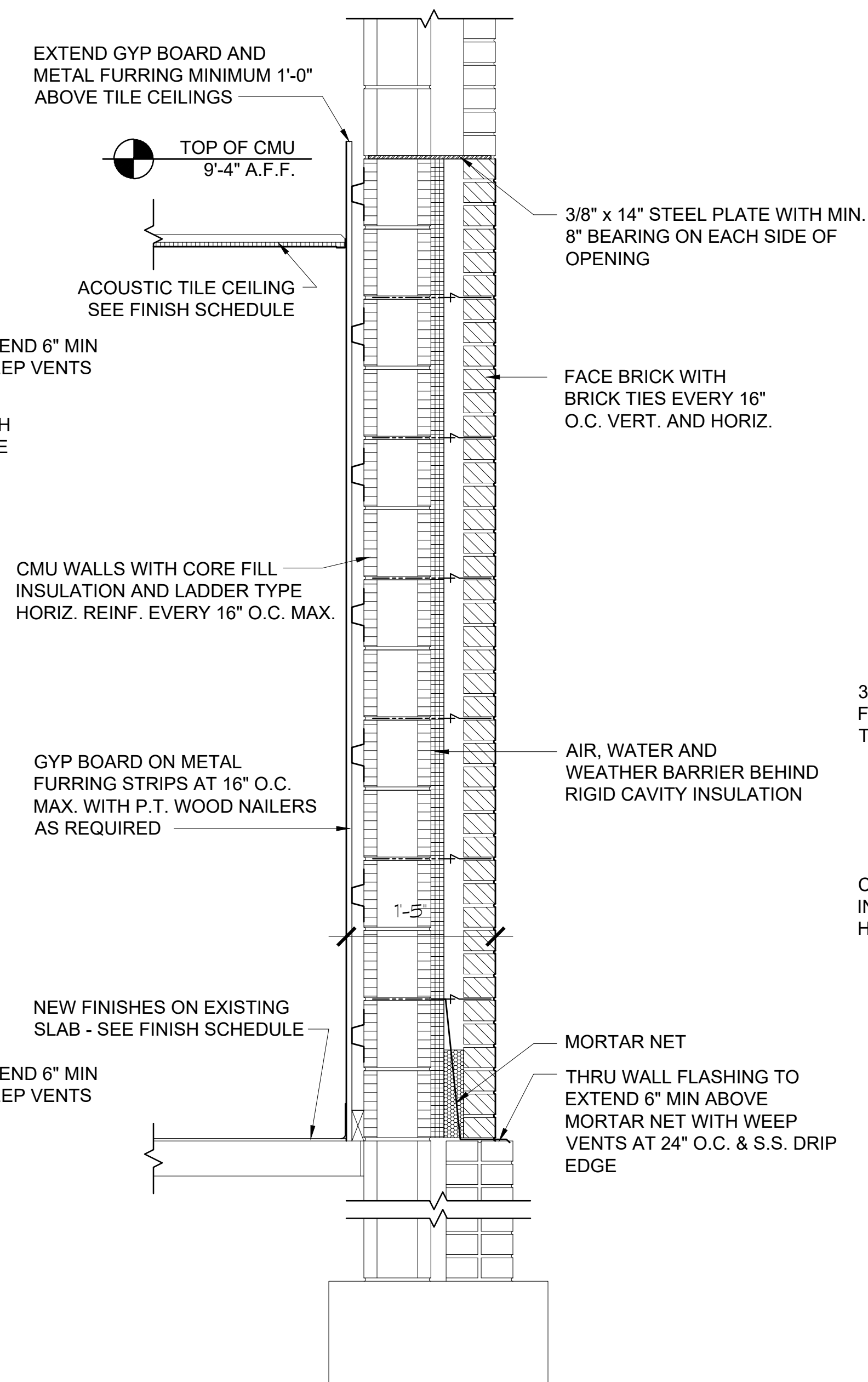
1 WALL SECTION

SCALE: 1" = 1'-0"



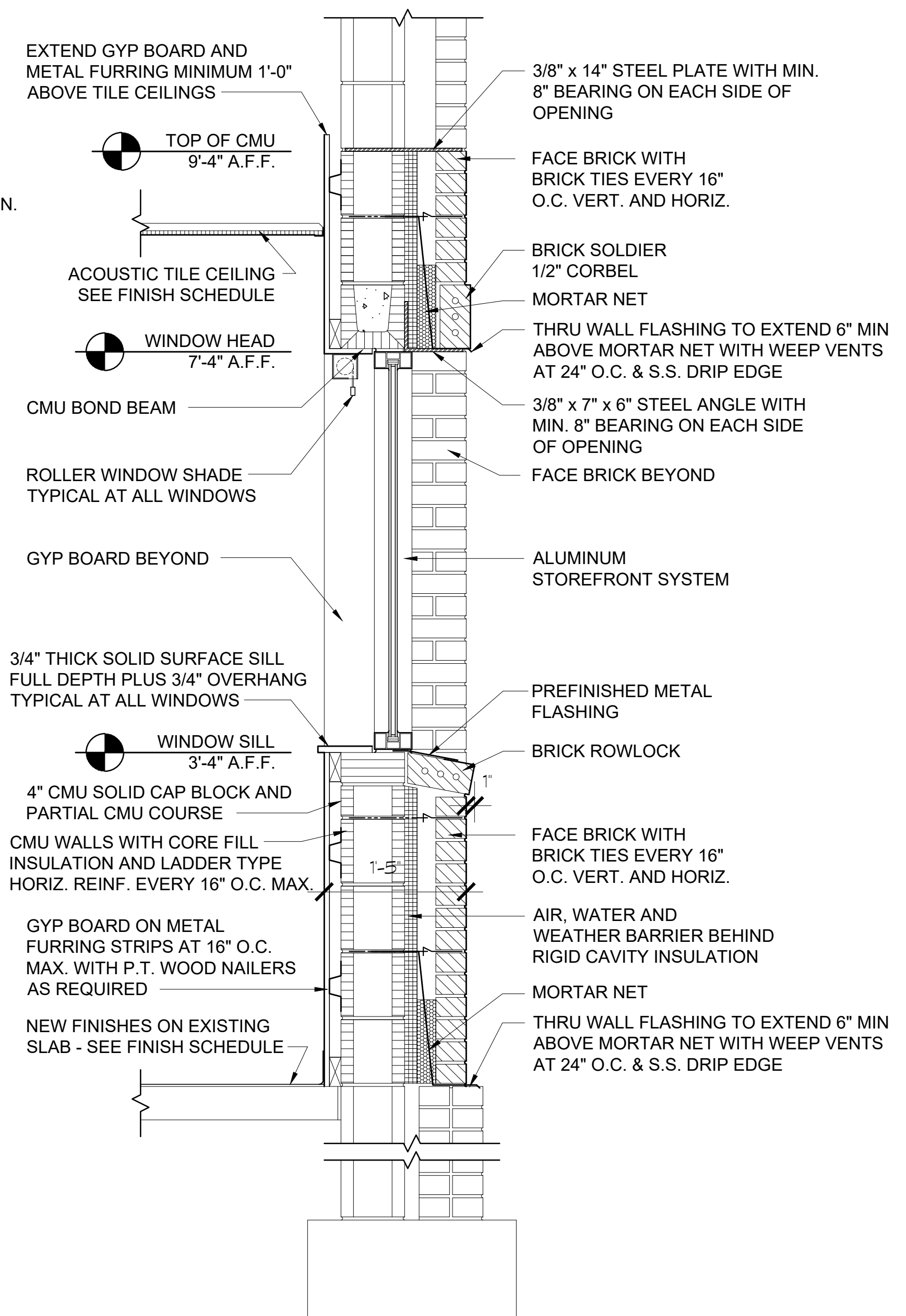
2 WALL SECTION

SCALE: 1" = 1'-0"



3 WALL SECTION

SCALE: 1" = 1'-0"



4 WALL SECTION

SCALE: 1" = 1'-0"

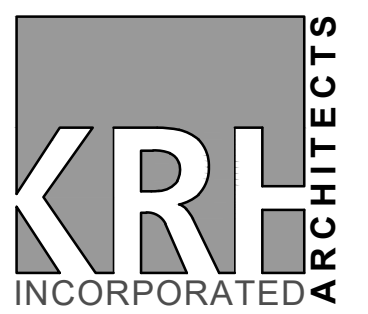
FOR CONSTRUCTION

PROJECT NUMBER
23-001

DATE
05/15/23

REVISIONS
NO. DATE
0000 00/00/00

FACILITY CODE
000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
PROBATION OFFICE
400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX
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A3.2



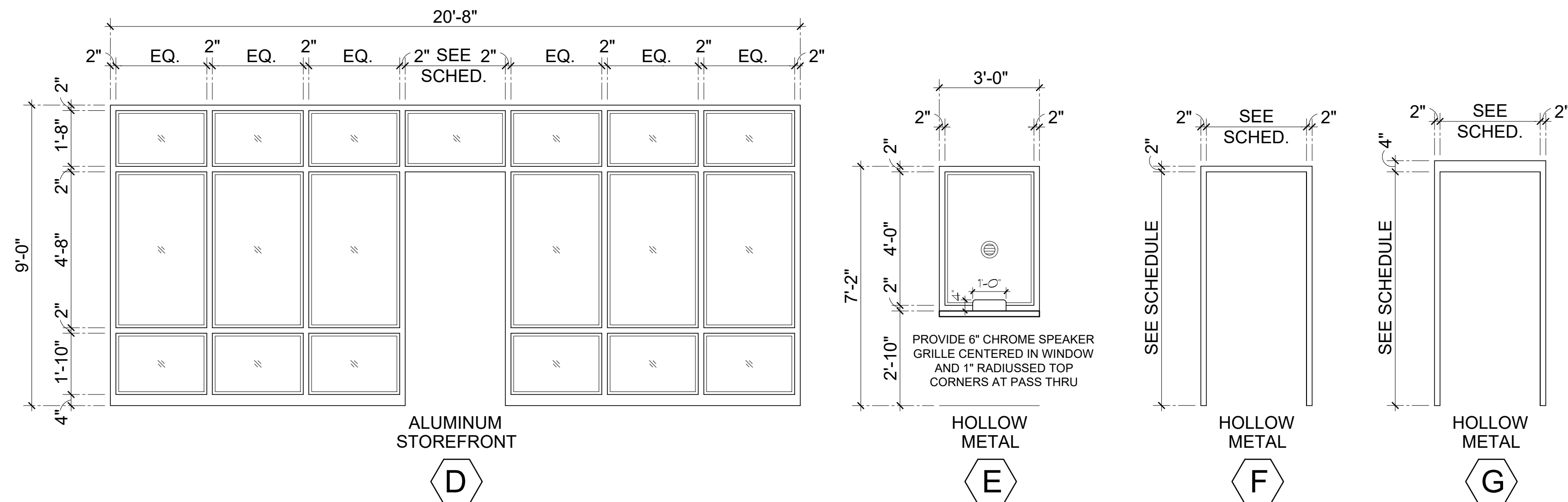
4 A.D.A. INSTALLATION GUIDELINES

GENERAL DOOR SCHEDULE NOTES:

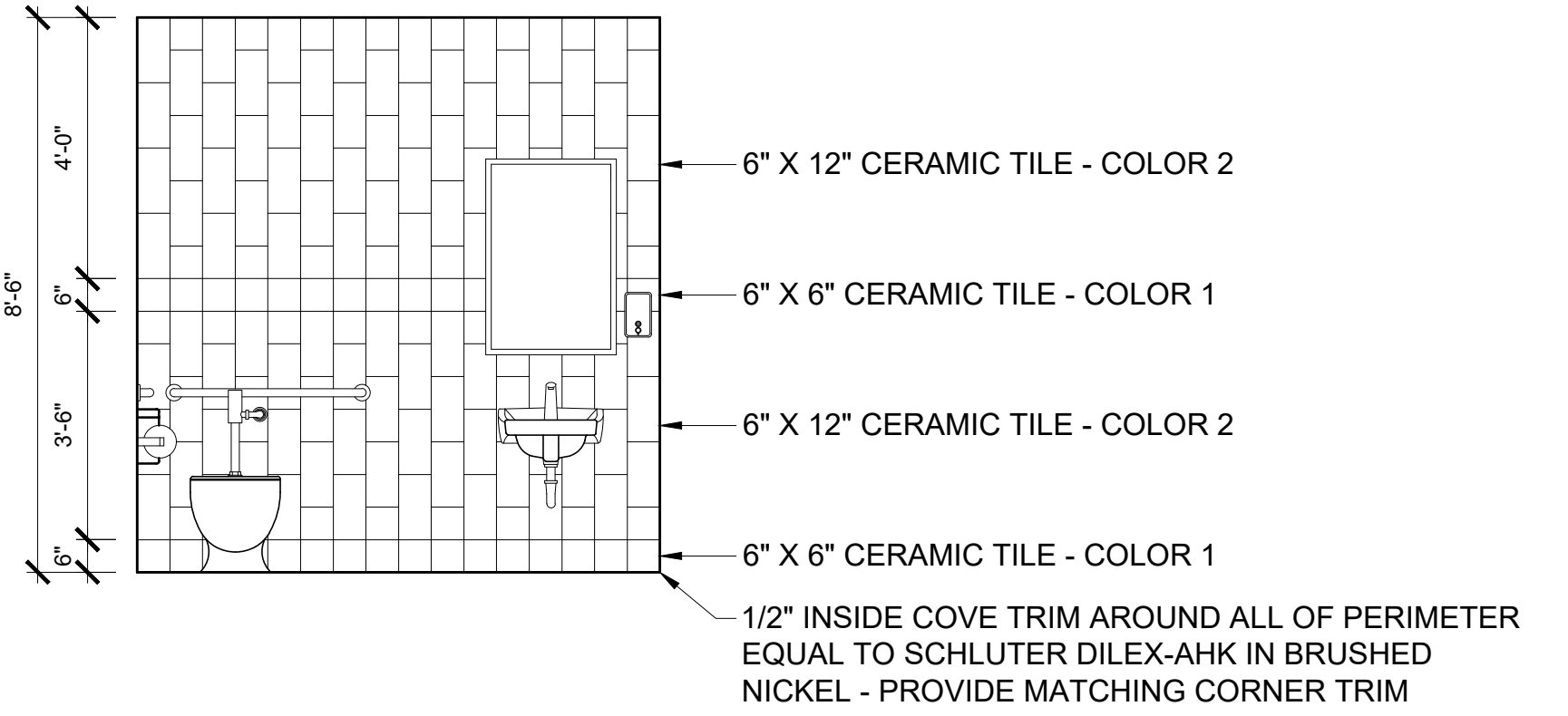
NOTE 1: ALL EXISTING DOORS TO REMAIN SHALL BE INSPECTED FOR PROPER FUNCTION AND FINISH. CLEAN ALL DOORS TO REMAIN AND REPAIR DOOR ELEMENTS AS NECESSARY. CLEAN, REPAIR AND REPAINT/REFINISH ALL WOOD AND HOLLOW METAL DOORS TO LIKE NEW CONDITION.

NOTE 2: PROVIDE NEW DOOR HARDWARE AT ALL EXISTING DOORS TO REMAIN.

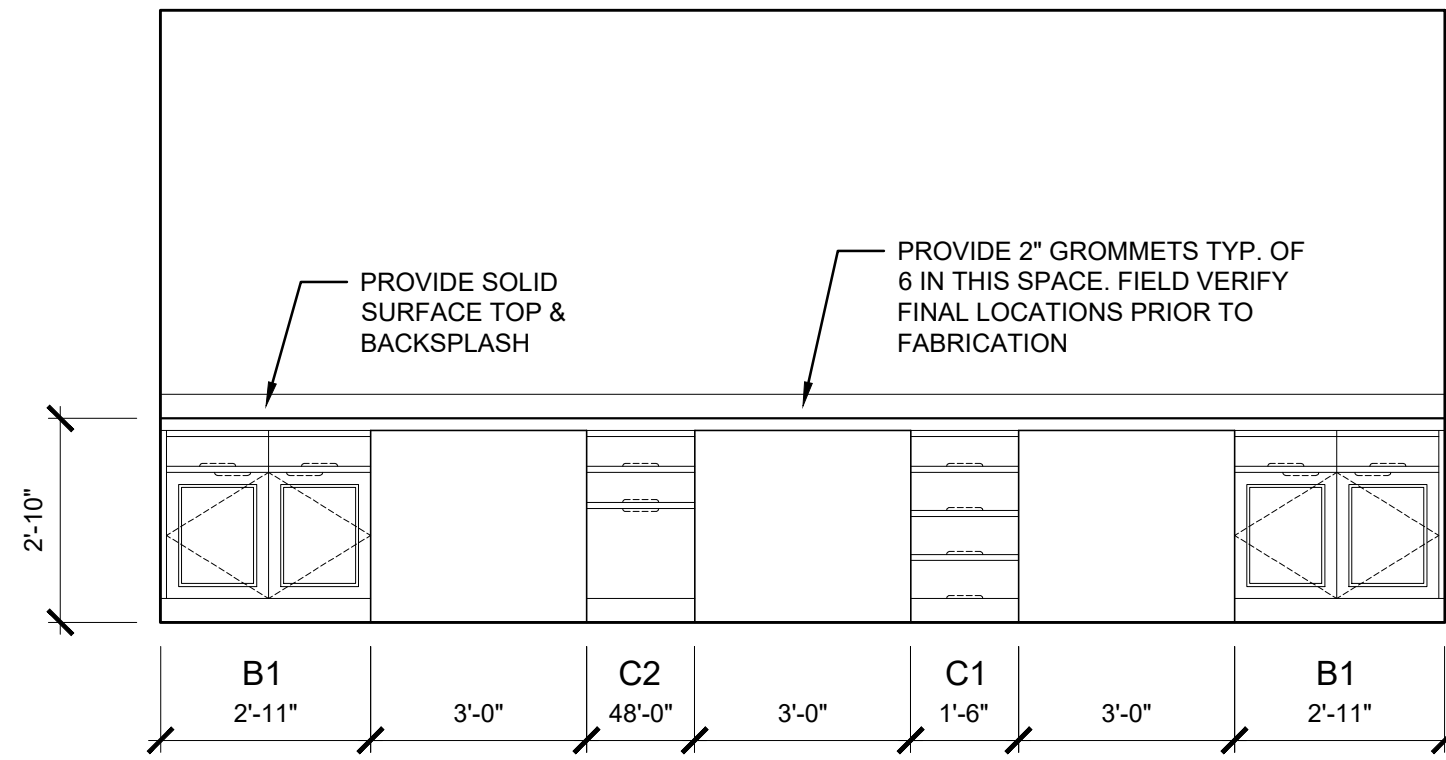
NOTE 3: PROVIDE CONSTRUCTION CORES AT ALL DOORS. OWNER WILL PROVIDE FINAL CORES AFTER PROJECT COMPLETION.



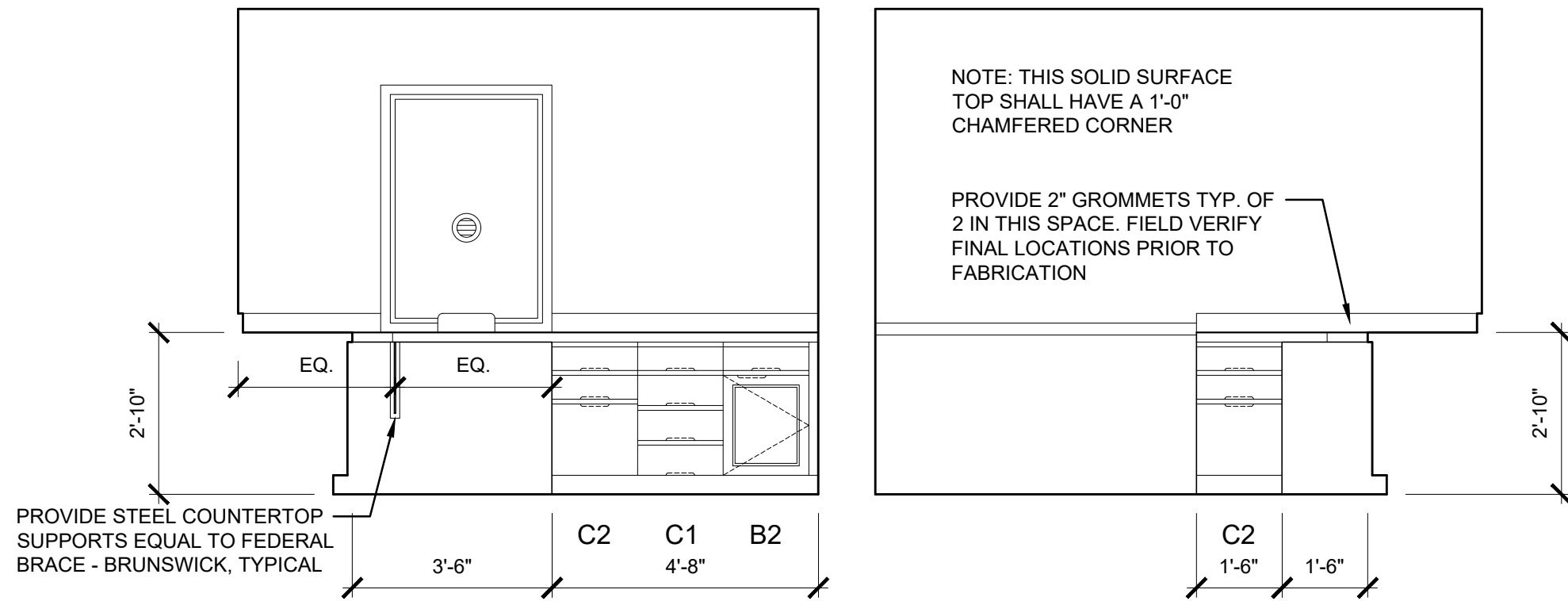
FOR CONSTRUCTION



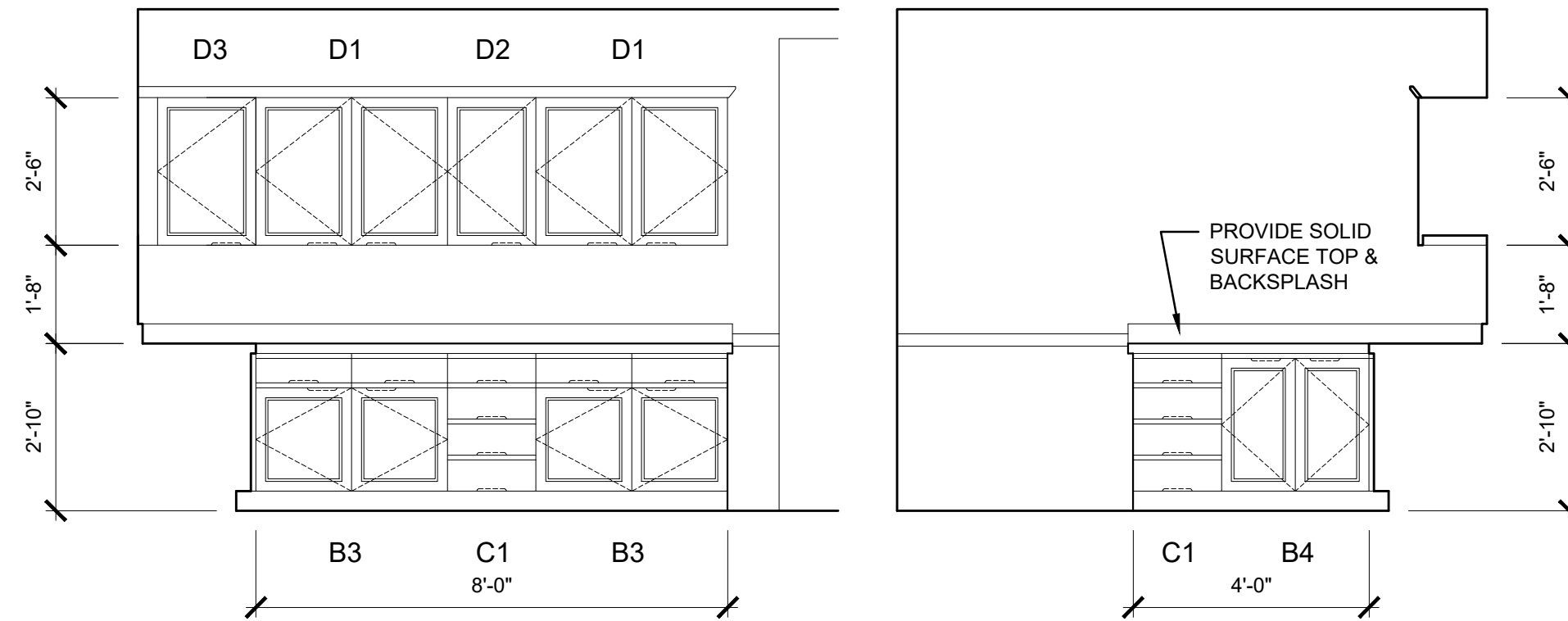
1 TYPICAL RESTROOM WALL TILE PATTERN
SCALE: 3/8" = 1'-0" TYPICAL OF ALL WALLS IN EACH TOILET ROOM



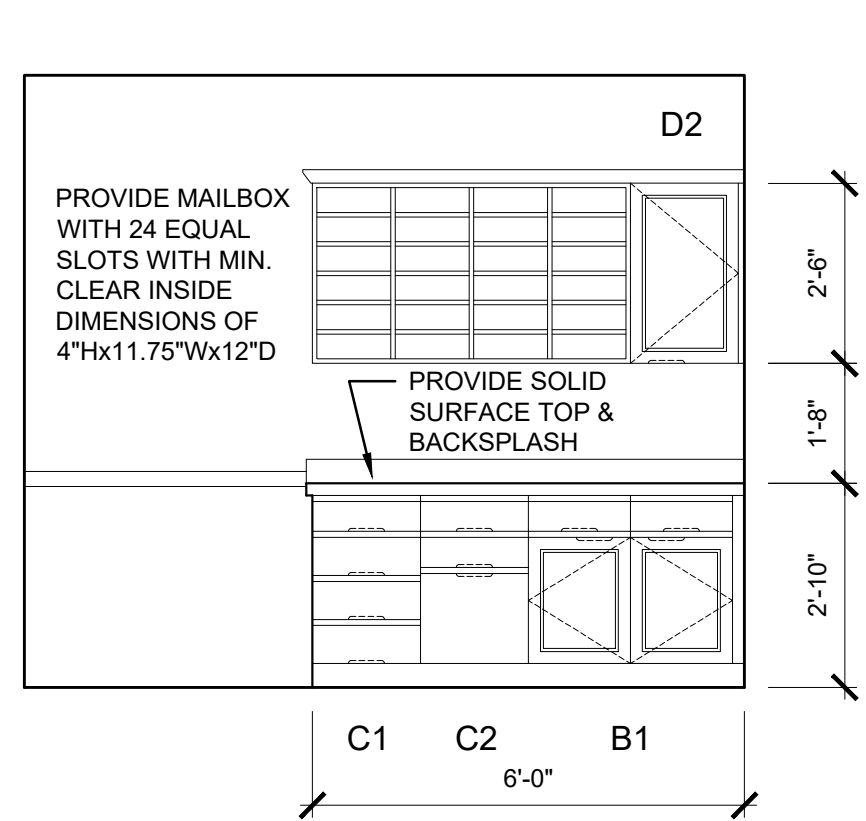
2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" TESTING LAB 103



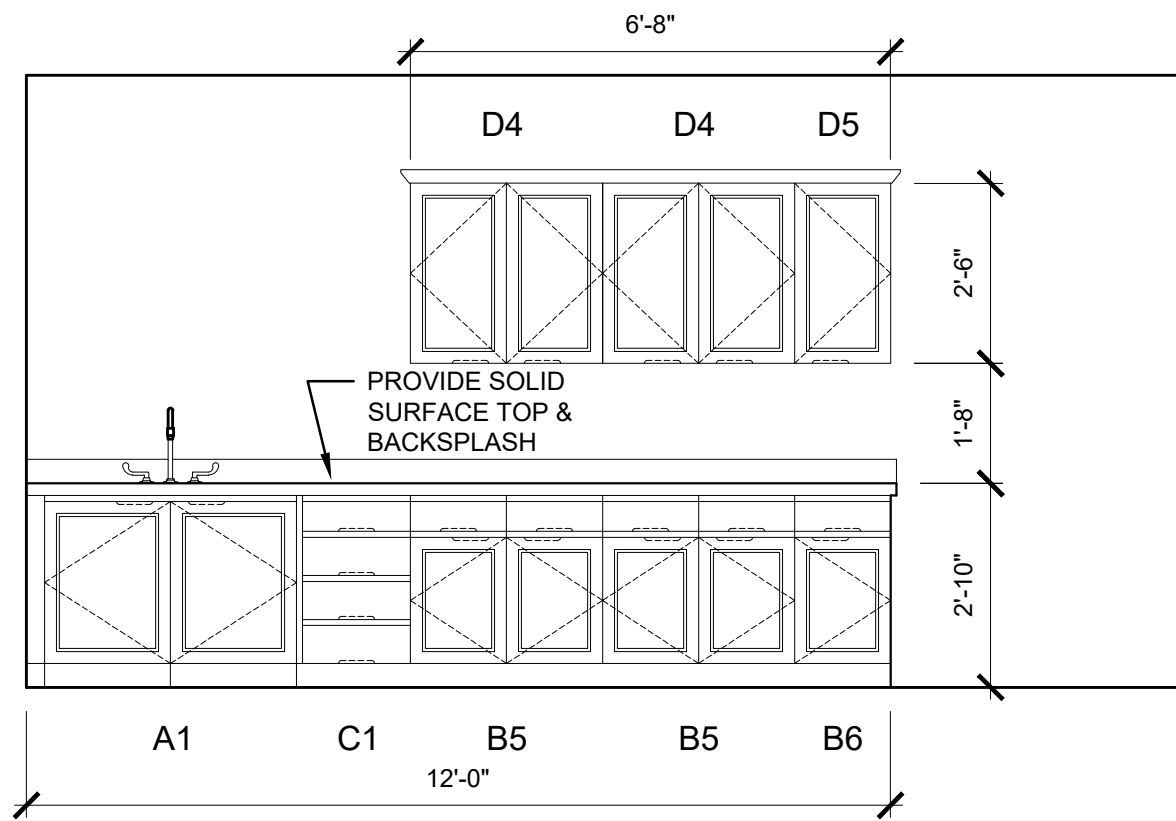
3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" ADMINISTRATION 110



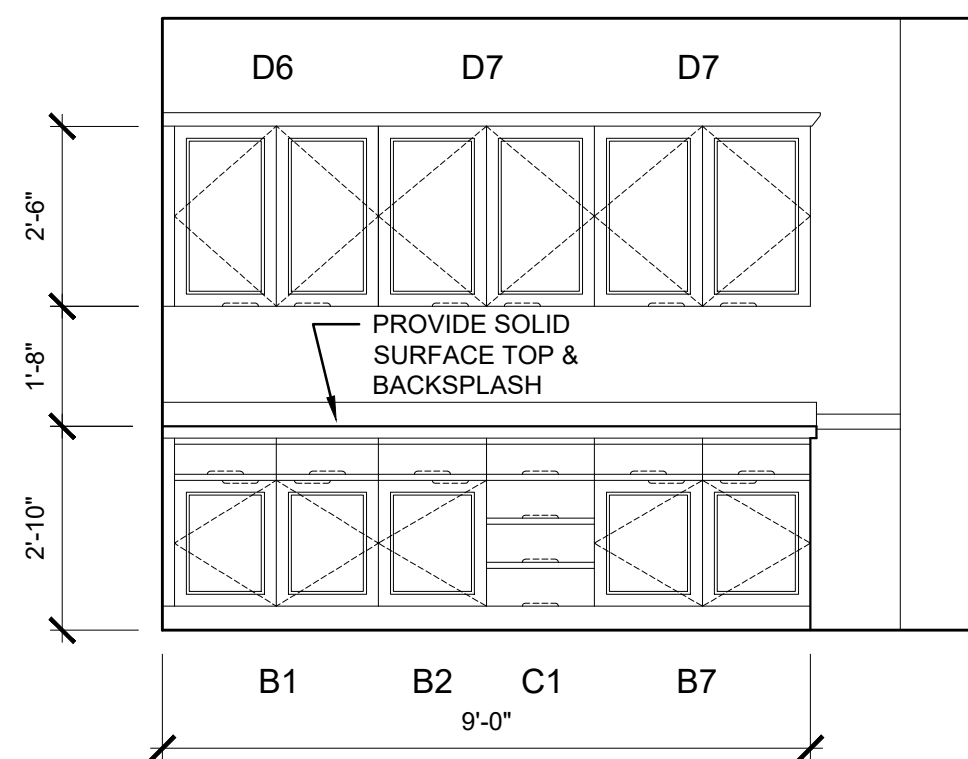
4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" COPY ROOM 111



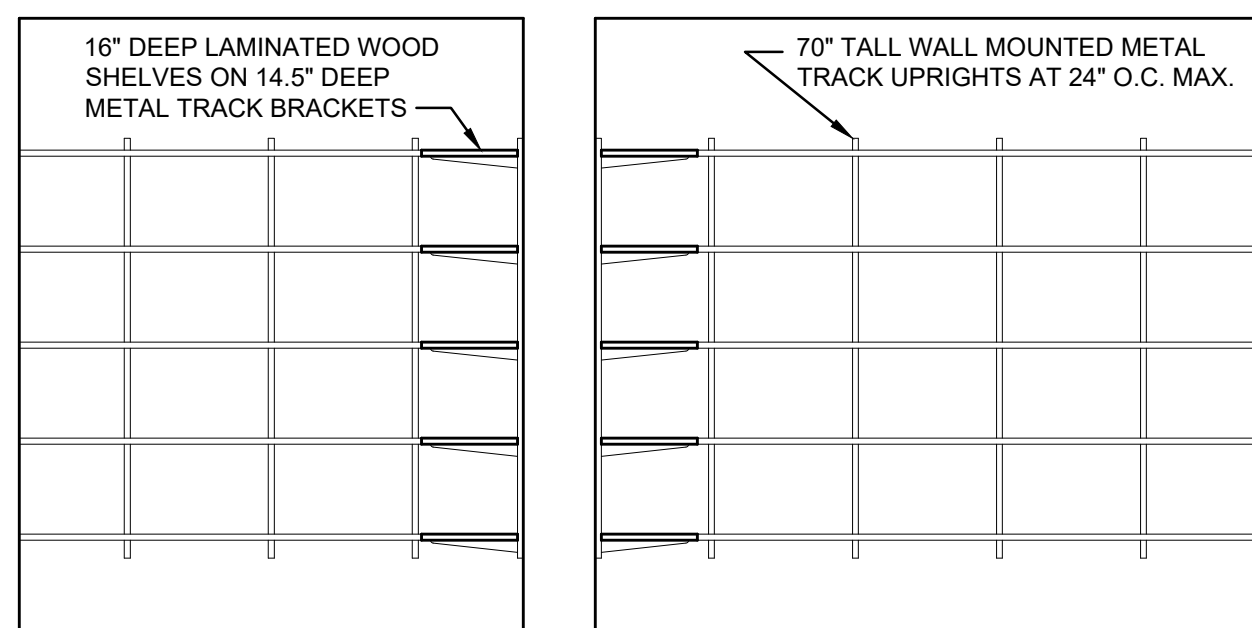
5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" MAIL/COPY 132



6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" BREAK ROOM 133



7 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" CORRIDOR 140



8 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" STORAGE 141 & CUSTODIAL 146 SIM.

CASEWORK SCHEDULE		
A1	ADA SINK BASE	42W, 34H, 24D
B1	DOOR & DRAWER BASE	34W, 34H, 24D
B2	DOOR & DRAWER BASE	18W, 34H, 24D
B3	DOOR & DRAWER BASE	39W, 34H, 24D
B4	DOOR BASE	30W, 34H, 24D
B5	DOOR & DRAWER BASE	32W, 34H, 24D
B6	DOOR & DRAWER BASE	16W, 34H, 24D
B7	DOOR & DRAWER BASE	36W, 34H, 24D
C1	DRAWER BASE	18W, 34H, 24D
C2	DRAWER & FILE BASE	18W, 34H, 24D
D1	WALL CABINET	39W, 30H, 14D
D2	WALL CABINET	18W, 30H, 14D
D3	WALL CABINET	20W, 30H, 14D
D4	WALL CABINET	32W, 30H, 14D
D5	WALL CABINET	16W, 30H, 14D
D6	WALL CABINET	34W, 30H, 14D
D7	WALL CABINET	36W, 30H, 14D

PROVIDE ALL REQUIRED END PANELS AND FILLER STRIPS FOR A COMPLETE INSTALLATION

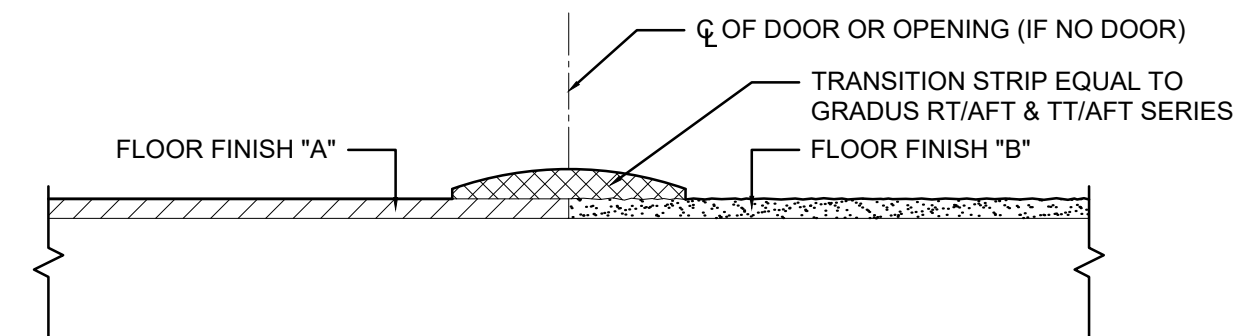
PROVIDE CROWN ABOVE ALL WALL CABINETS EQUAL TO WILSONART - CONTEMPORARY CROWN 4766 OR RANDALL BROTHERS - PROFILE RB-52

SCHEDULE of FINISHES									
ROOM NAME	NO.	FLOOR	BASE	WALLS	CEILING	CLG. HT.	REMARKS		
VESTIBULE	101	X	X	X	X	X	NOTES 1 & 5		
WAITING	102	X	X	X	X	X	NOTE 1		
TESTING LAB	103	X	X	X	X	X	NOTE 1		
DRUG TESTER	104	X	X	X	X	X	NOTES 1 & 6		
DRUG TESTER	105	X	X	X	X	X	NOTES 1 & 6		
DRUG TESTER	106	X	X	X	X	X	NOTES 1 & 6		
TOILET	107	X	X	X	X	X	NOTE 3		
TOILET	108	X	X	X	X	X	NOTE 3		
TOILET	109	X	X	X	X	X	NOTE 3		
ADMINISTRATION	110	X	X	X	X	X	NOTES 1 & 6		
COPY ROOM	111	X	X	X	X	X	NOTE 1		
OFFICE	112	X	X	X	X	X	NOTES 1 & 6		
OFFICE	113	X	X	X	X	X	NOTES 1 & 6		
OFFICE	114	X	X	X	X	X	NOTES 1 & 6		
OFFICE	115	X	X	X	X	X	NOTES 1 & 6		
OFFICE	116	X	X	X	X	X	NOTES 1 & 6		
OFFICE	117	X	X	X	X	X	NOTES 1 & 6		
OFFICE	118	X	X	X	X	X	NOTES 1 & 6		
OFFICE	119	X	X	X	X	X	NOTES 1 & 6		
OFFICE	120	X	X	X	X	X	NOTES 1 & 6		
OFFICE	121	X	X	X	X	X	NOTES 1 & 6		
OFFICE	122	X	X	X	X	X	NOTES 1 & 6		
OFFICE	123	X	X	X	X	X	NOTES 1 & 6		
OFFICE	124	X	X	X	X	X	NOTES 1 & 6		
OFFICE	125	X	X	X	X	X	NOTES 1 & 6		
OFFICE	126	X	X	X	X	X	NOTES 1 & 6		
OFFICE	127	X	X	X	X	X	NOTES 1 & 6		
DIRECTOR	128	X	X	X	X	X	NOTES 1 & 6		
SUPERVISOR	129	X	X	X	X	X	NOTES 1 & 6		
SUPERVISOR	130	X	X	X	X	X	NOTES 1 & 6		
SUPERVISOR	131	X	X	X	X	X	NOTES 1 & 6		
MAIL/COPY	132	X	X	X	X	X	NOTE 1		
BREAK ROOM	133	X	X	X	X	X	NOTES 1 & 6		
TRAINING ROOM	134	X	X	X	X	X	NOTES 1, 4 & 6		
STORAGE	135	X	X	X	X	X	NOTE 3		
RESTROOM	136	X	X	X	X	X	NOTE 3		
RESTROOM	137	X	X	X	X	X	NOTE 3		
JANITOR	138	X	X	X	X	X	NOTE 2		
DATA/ELECTRICAL	139	X	X	X	X	X	NOTE 1		
CORRIDOR	140	X	X	X	X	X	NOTE 1		
STORAGE	141	X	X	X	X	X	NOTE 1		
MECHANICAL	142	X	X	X	X	X	NOTE 1		
MECHANICAL	143	X	X	X	X	X	NOTE 1		
MECHANICAL	144	X	X	X	X	X	NOTE 1		
OFFICE	145	X	X	X	X	X	NOTES 1 & 6		
CUSTODIAL	146	X	X	X	X	X	NOTES 1 & 6		

- NOTE 1: PROVIDE CHAIR RAIL AT 36" A.F.F. WITH TWO WALL PAINT COLORS, ONE ABOVE AND ONE BELOW RAIL. CHAIR RAIL PROFILE SHALL BE EQUAL TO RB-472 BY RANDALL BROTHERS.
- NOTE 2: PROVIDE 8'-0" TALL GRAY INTUMESCENT PAINTED PLYWOOD MOUNTED 1'-0" A.F.F. THE ENTIRE PERIMETER OF THREE WALLS OF THE DATA ROOM. THE WALL CONTAINING THE DOOR WILL NOT REQUIRE THIS PLYWOOD.
- NOTE 3: PROVIDE MOISTURE RESISTANT A.C.T. AND GRID IN THIS SPACE.
- NOTE 4: PROVIDE A FULL 4' X 8' SHEET OF PLYWOOD, PAINTED FLAT BLACK, TO BE MOUNTED TO THE WALL STUDS IN A FINAL LOCATION OF THE OWNER'S CHOOSING IN THIS SPACE.
- NOTE 5: PROVIDE LVT/LVP ON THE INTERIOR OF THE VESTIBULE AND SEALED CONCRETE ON THE EXTERIOR COVERED ENTRY.
- NOTE 6: PROVIDE FULL THICK SOUND BATT INSULATION IN EVERY INTERIOR WALL OF THIS SPACE.

GENERAL FINISH NOTES:

- G.F.N.#1: PROVIDE A TERMINATION EDGE AT DOORS/OPENINGS TO ALLOW FOR A SMOOTH TRANSFER TO ADJACENT FLOOR SURFACE. TYPICAL AT ALL CHANGES IN FLOOR FINISH. SEE DETAIL "T1" ON THIS SHEET.
- G.F.N.#2: ALL NEW CONSTRUCTION SHALL RECEIVE NEW PAINT. ANY EXISTING CONSTRUCTION DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED AND REPAINTED TO MATCH SURROUNDING CONSTRUCTION.
- G.F.N.#3: PREP ALL FLOORING PRODUCTS PER MANUFACTURERS INSTRUCTIONS PRIOR TO APPLICATION TO INSURE PROPER INSTALLATION.
- G.F.N.#4: ALL LVT/LVP INSTALLED SHALL BE FROM THE OWNER'S APPROVED PRODUCTS, EITHER SHAW CONTRACT, TERRAIN II, MINIMUM 20 MIL THICK OR SHAW HARD SURFACE, UNCOMMON GROUND, MINIMUM 20 MIL THICK. INSTALL PER MANUFACTURER'S REQUIREMENTS. NO OTHER PRODUCTS WILL BE ALLOWED.
- G.F.N.#4: ALL EXTERIOR SURFACES SHALL RECEIVE TWO COATS MINIMUM OF NEW FINISH PAINT, SEE SPECIFICATIONS.



T1 THRESHOLD DETAILS
SCALE: NTS

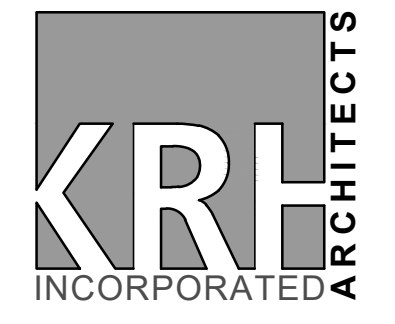
FOR CONSTRUCTION

PROJECT NUMBER
23-001

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05/15/23

REVISIONS
NO. DATE
0000 00/00/00

FACILITY CODE
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INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
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400 EAST MAIN STREET, CANTON GA 30114
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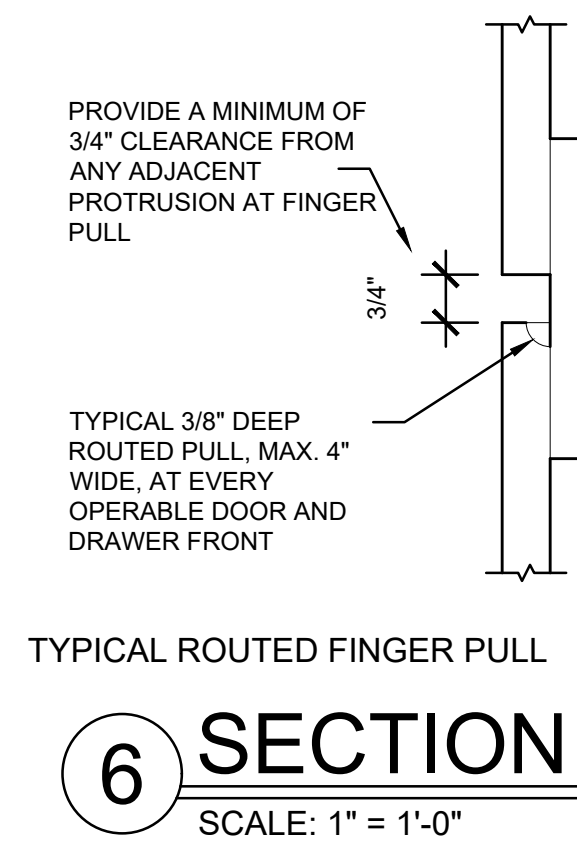
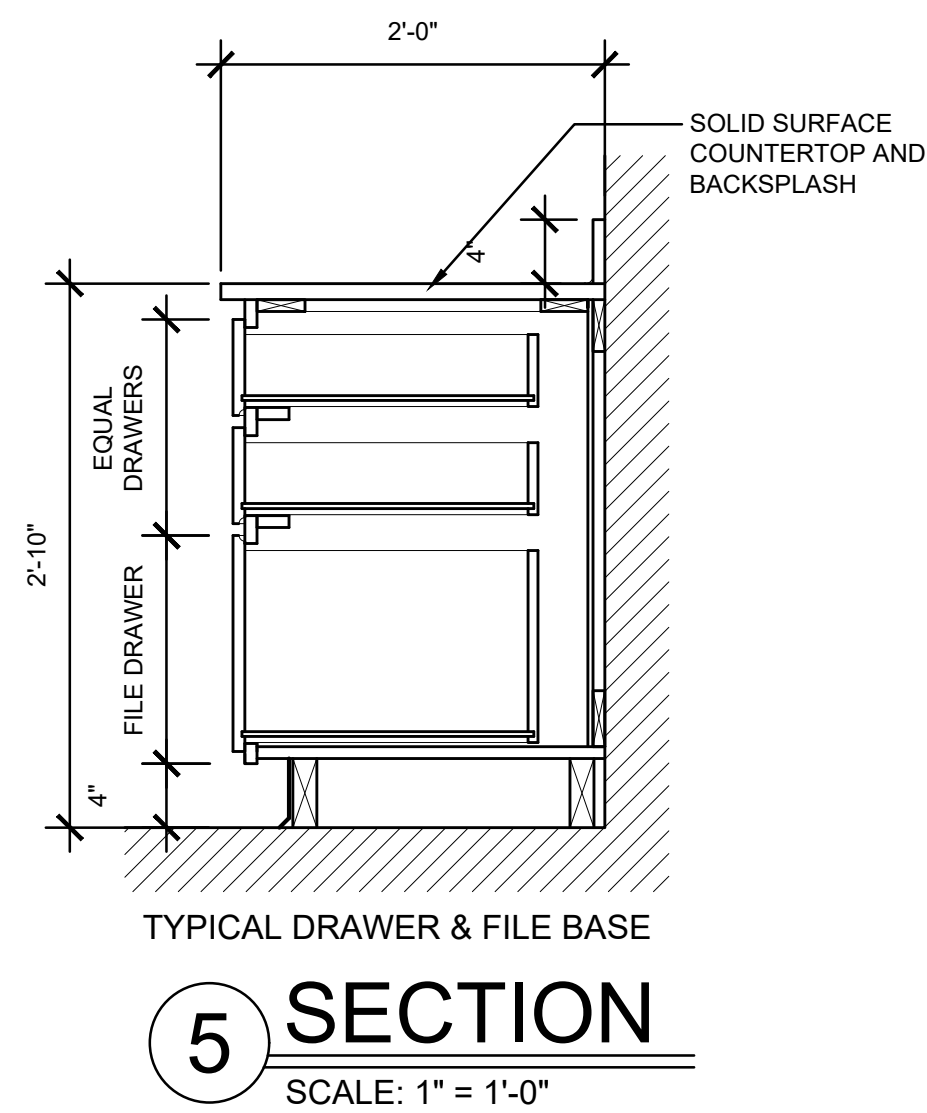
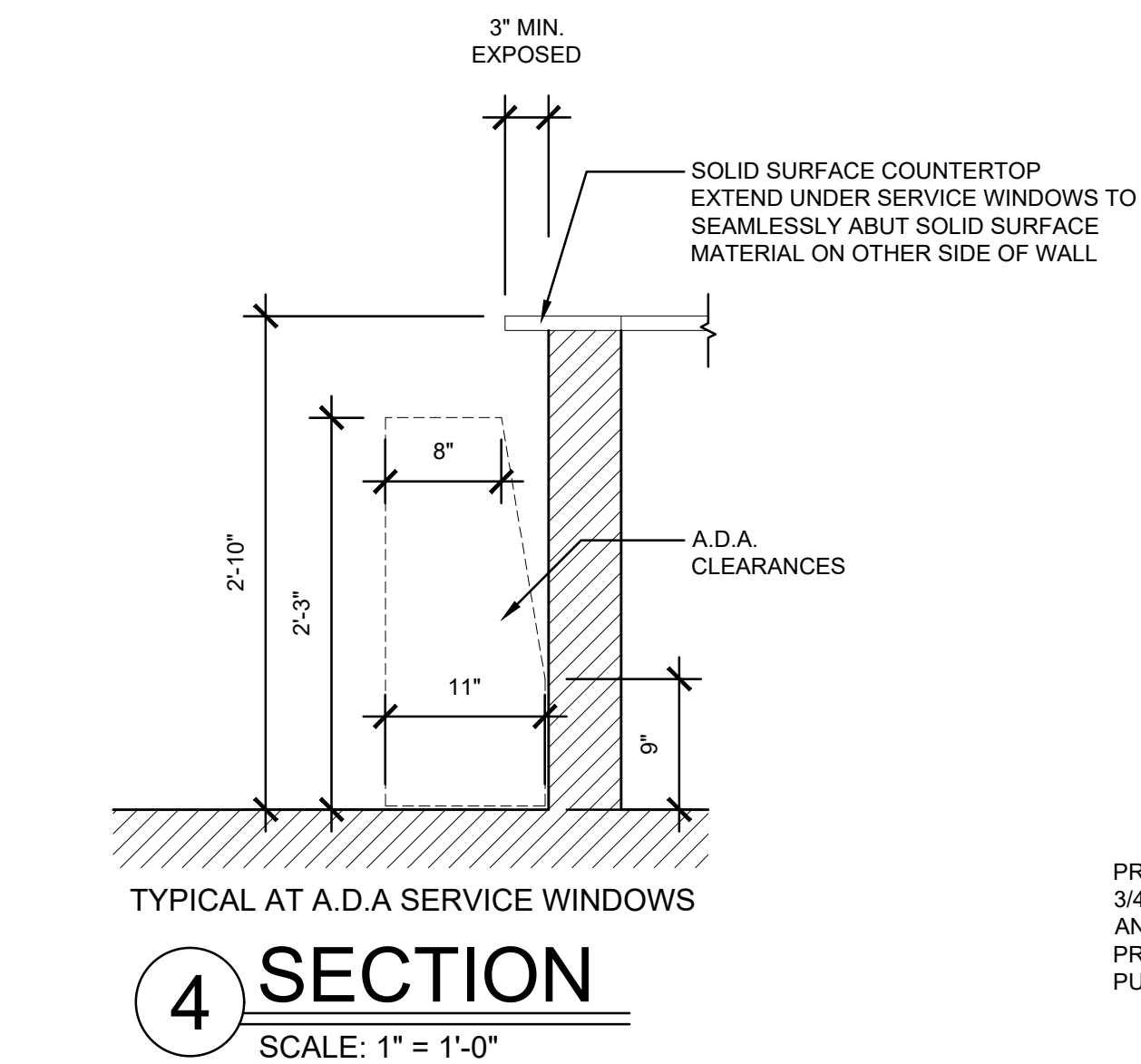
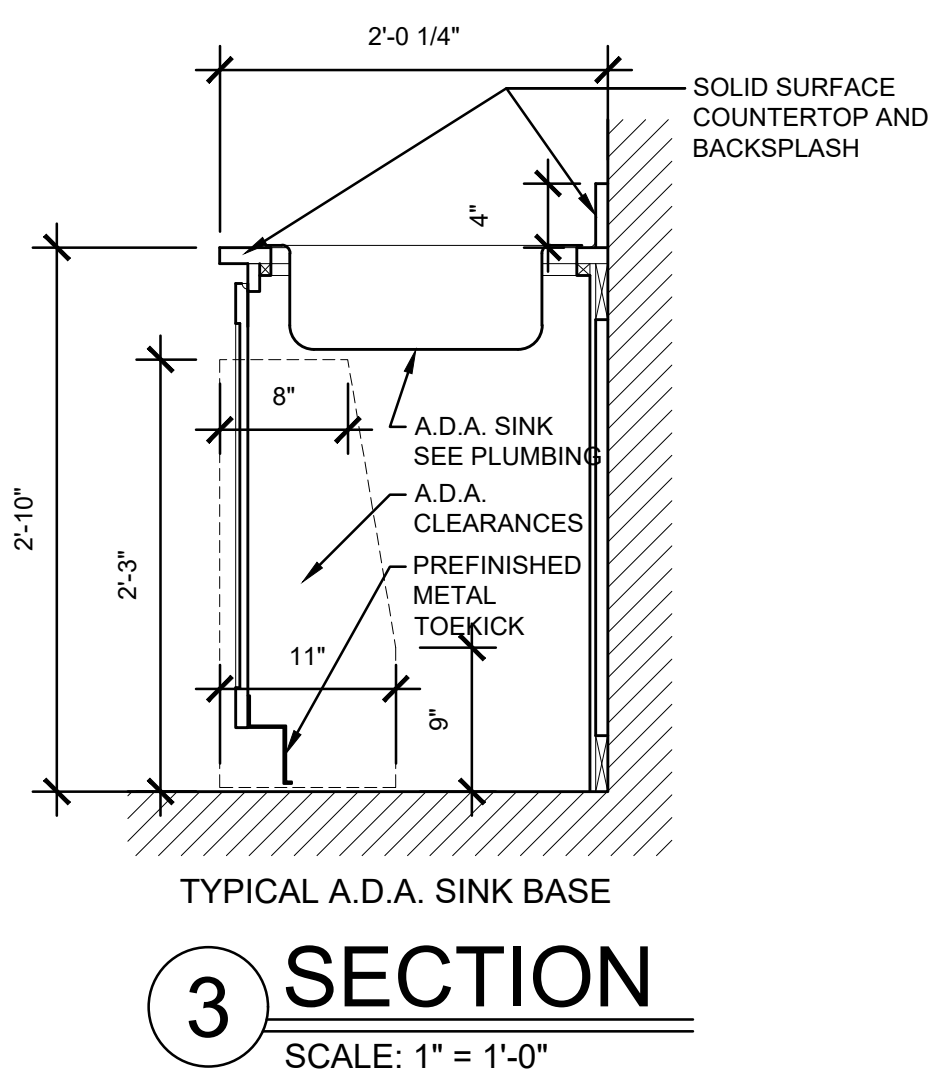
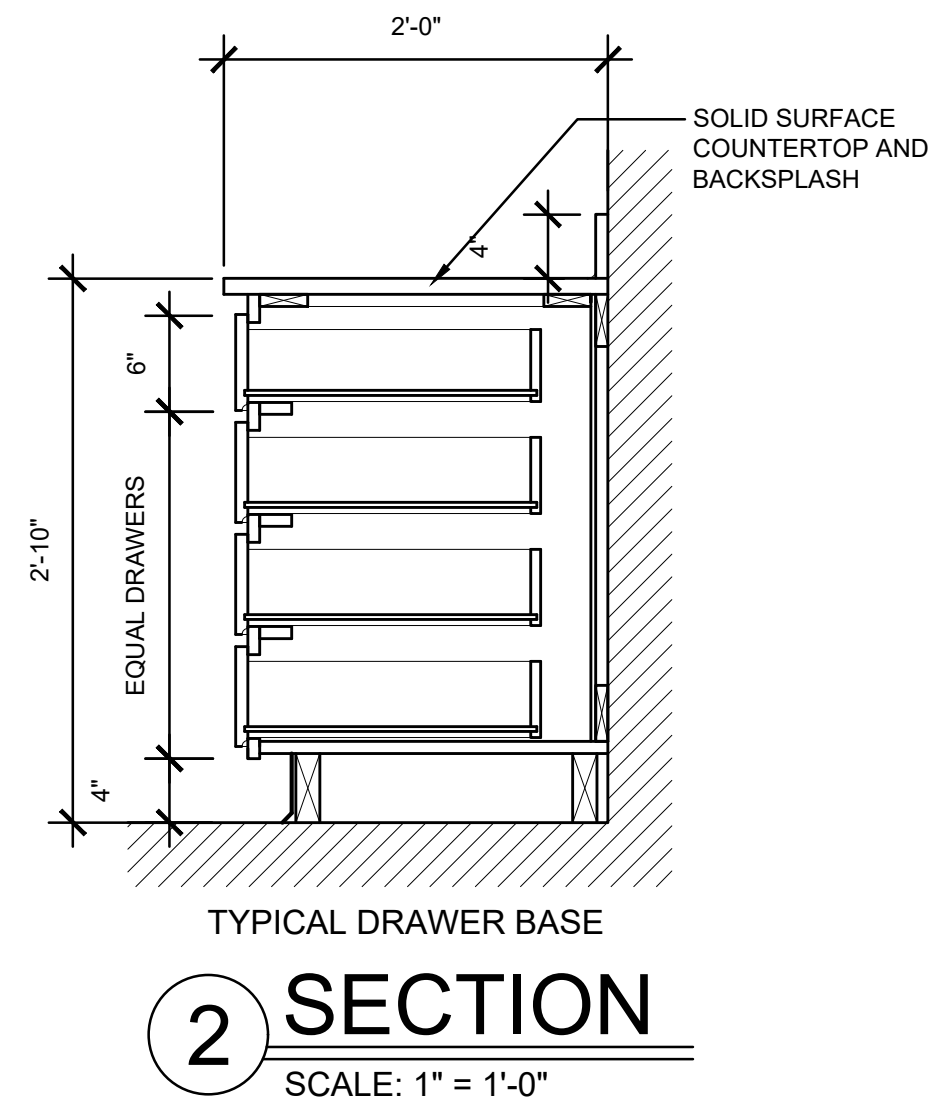
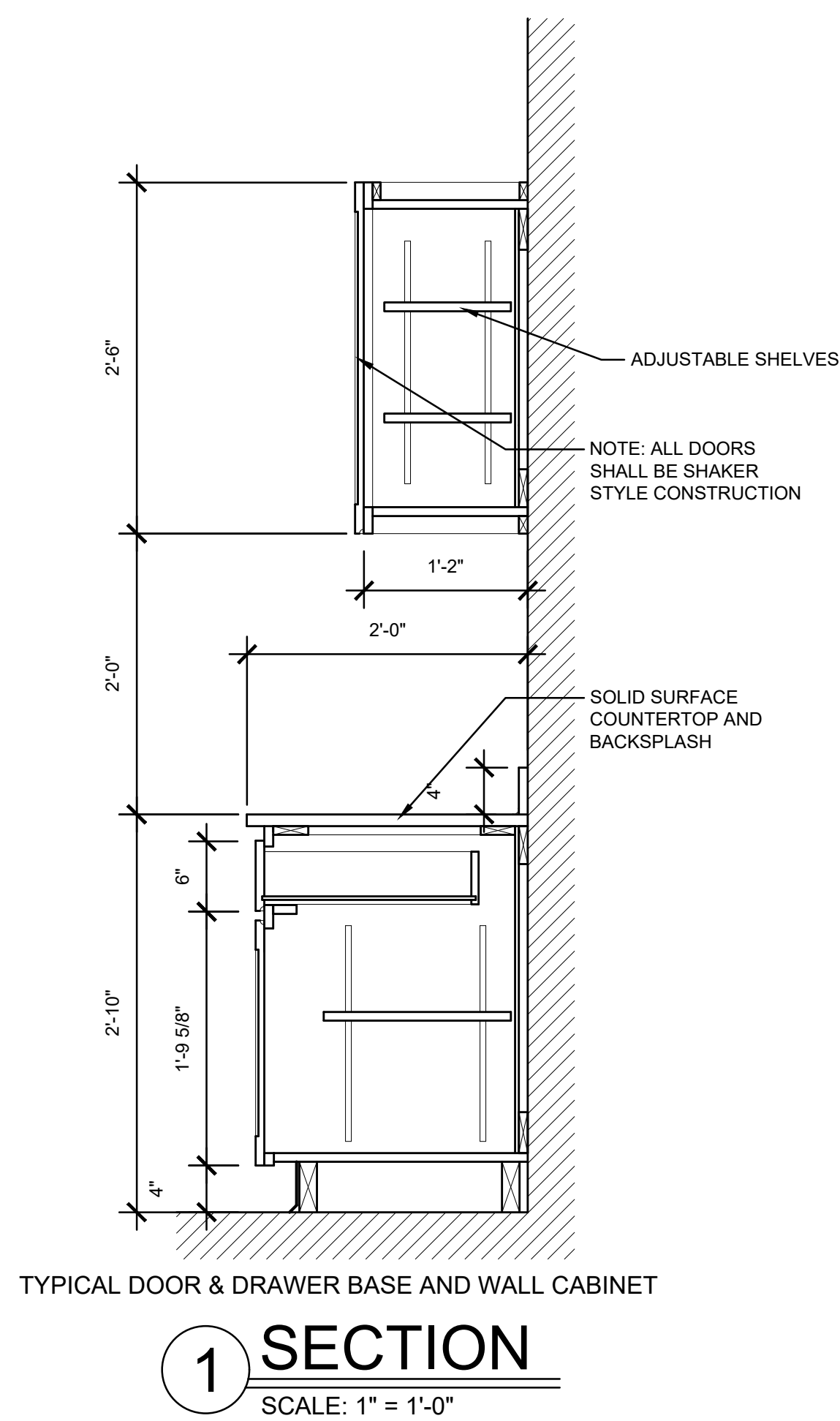


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SCHEDULES,
CASEWORK
ELEVATIONS

SHEET INDEX

A4.2

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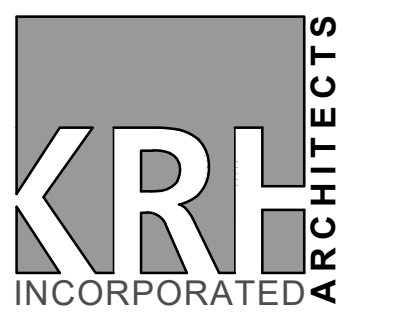
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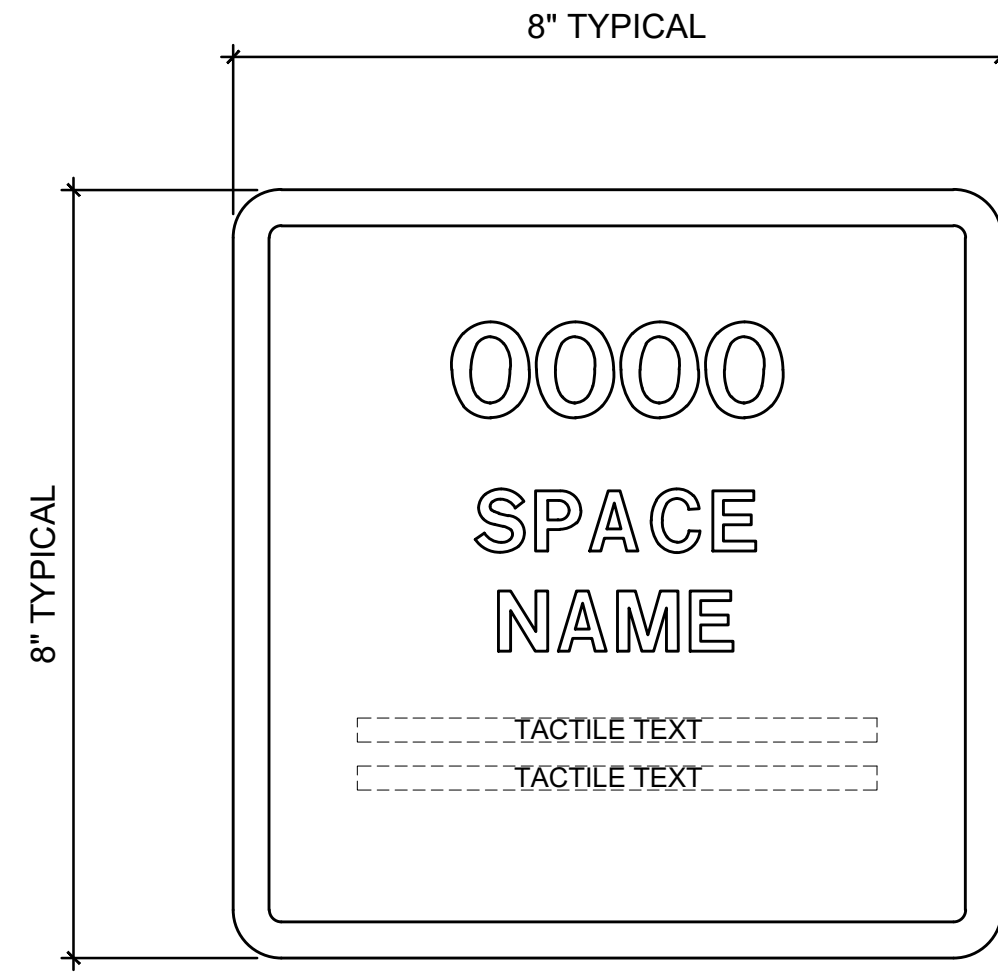


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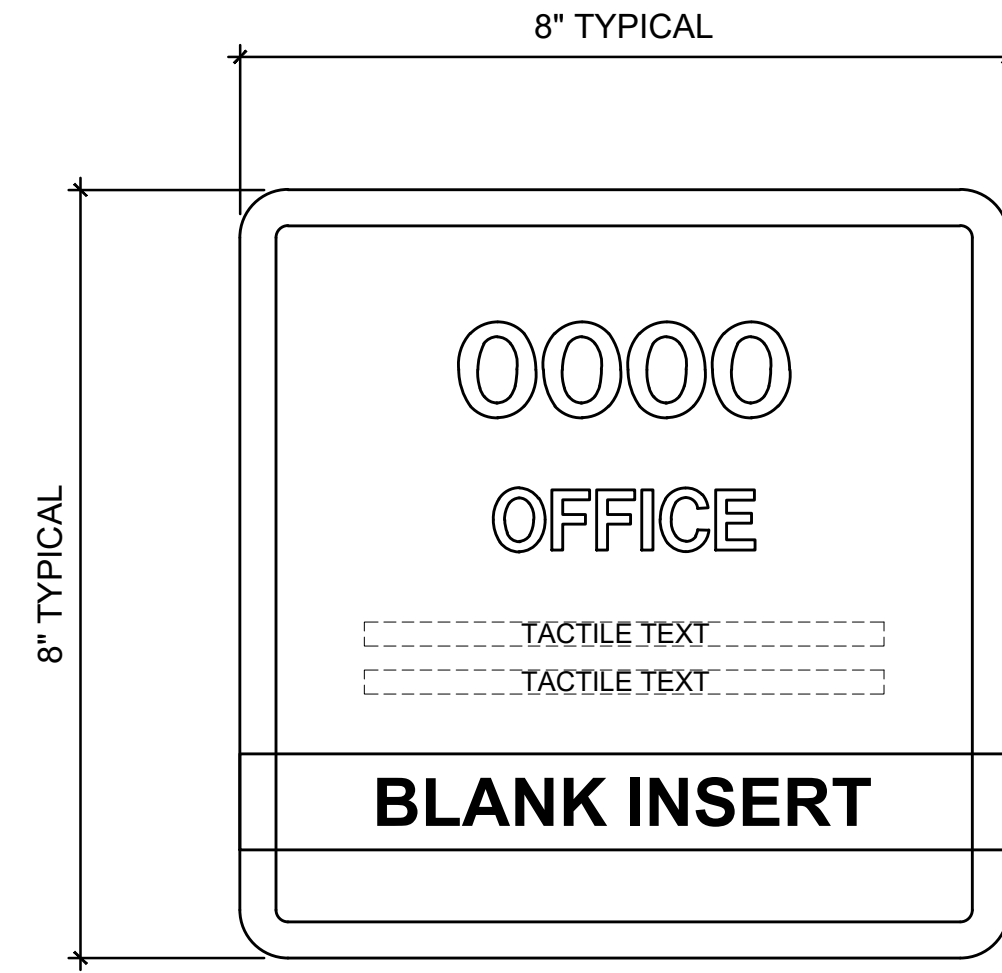
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A4.3

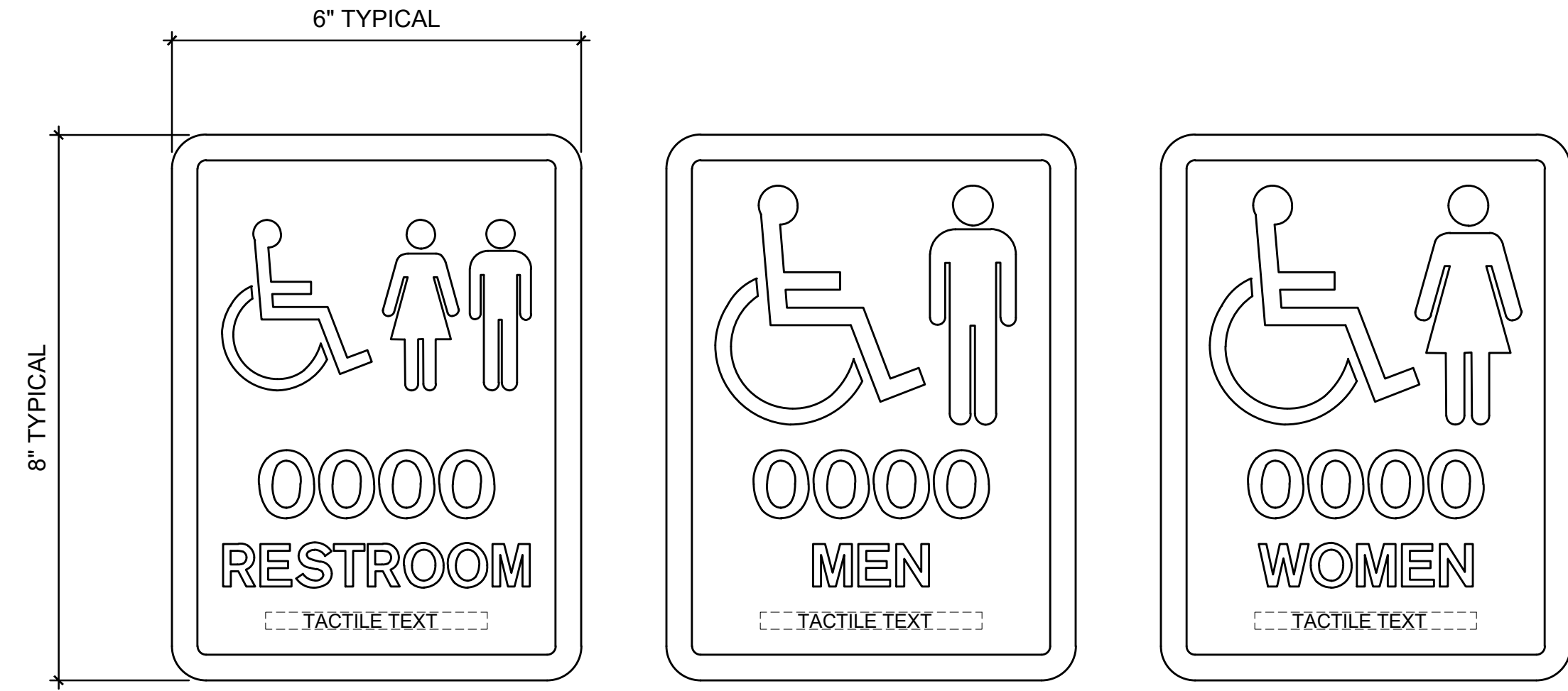
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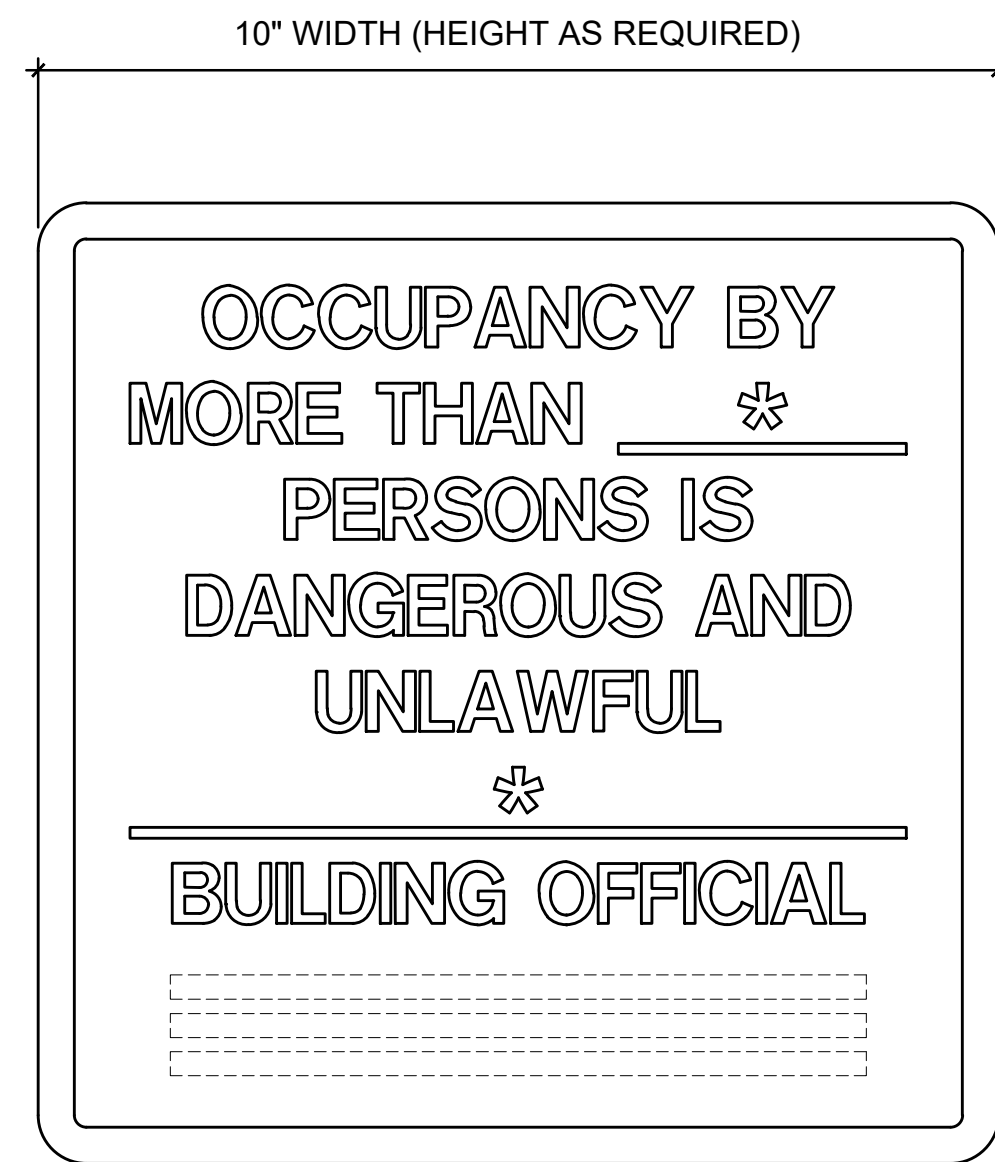
A TYPICAL ROOM SIGNAGE
SCALE: 6" = 1'-0"



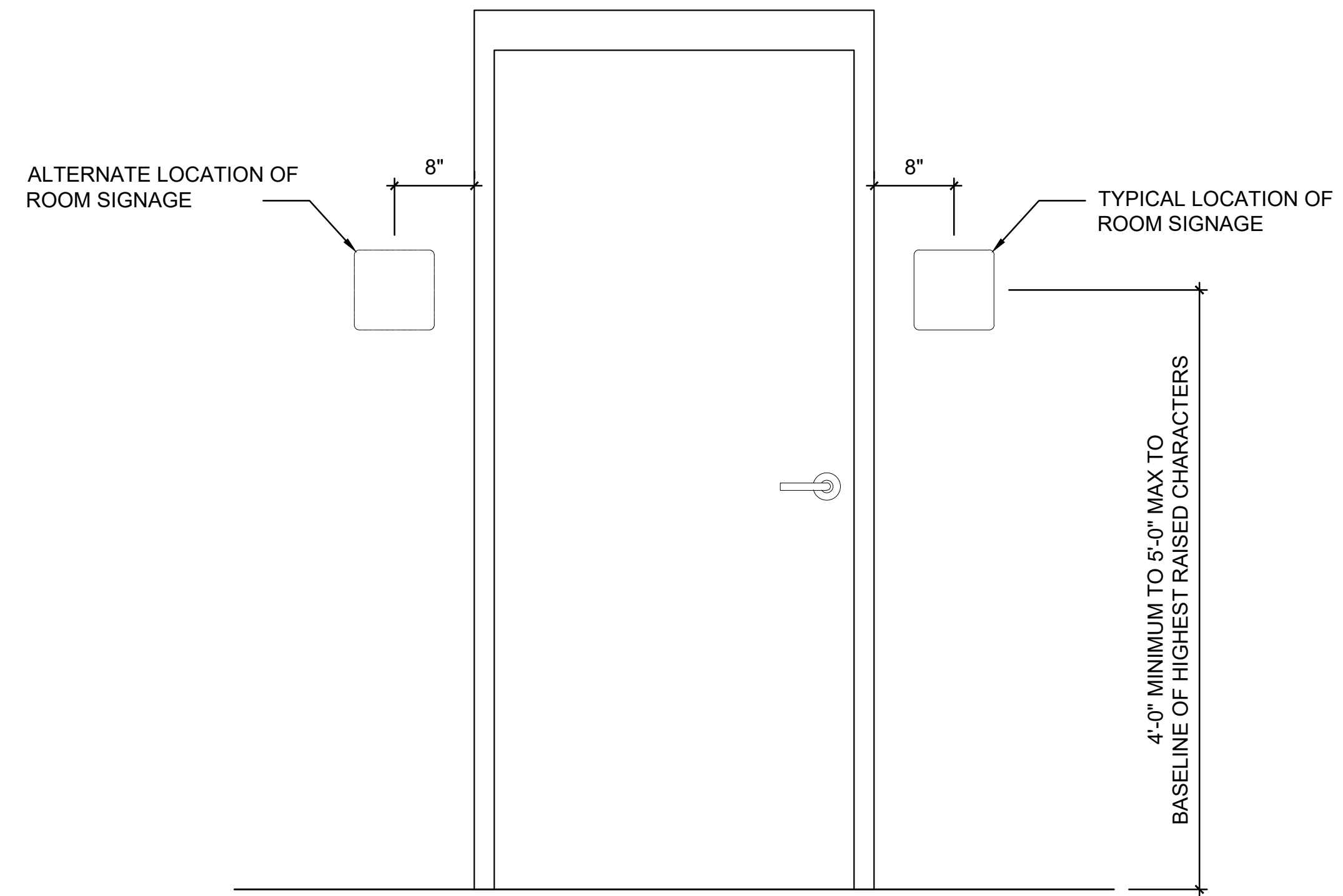
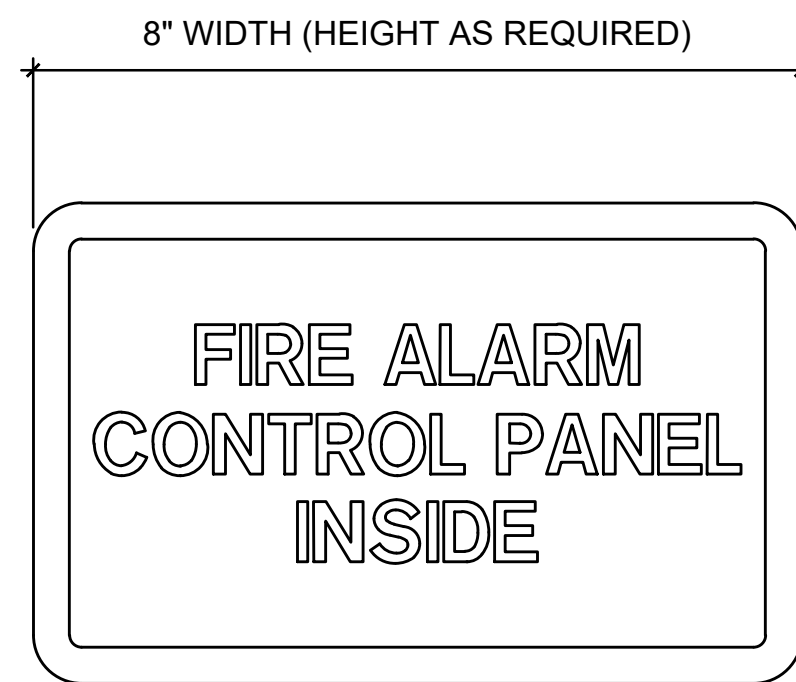
B OFFICE SIGNAGE
SCALE: 6" = 1'-0"



C TYPICAL RESTROOM SIGNAGE
SCALE: 6" = 1'-0"



D LIFE SAFETY SIGNAGE
SCALE: 6" = 1'-0"



E SIGNAGE MOUNTING LOCATIONS
SCALE: 6" = 1'-0"

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A5.1

FOR CONSTRUCTION

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL CODE OFFICE'S LATEST APPROVED VERSION OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BLDG. CODE, THE STATE ENERGY CODE, NFPA 54, NFPA 90A, 101, UNDERWRITERS LABORATORIES AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.

2. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES, EQUIPMENT LOCATIONS, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.

3. SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND MECHANICAL ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. THESE SHALL INCLUDE ALL EQUIPMENT SPECIFIED ON THE PLANS OR IN THE PROJECT SPECIFICATIONS. IF ANY MECHANICAL EQUIPMENT SUBMITTED DEVIATES FROM THAT SHOWN IN THE PLANS AND SPECIFICATIONS AS BASIS OF DESIGN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL CHANGES REQUIRED OF OTHER TRADES TO ACCOMPLISH THE WORK USING SUBMITTED EQUIPMENT.

4. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND ELECTRICAL PLANS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR DESCRIPTION OF INTERFACE WITH DIVISION 16 WORK.

5. ALL ELECTRICAL CHARACTERISTICS OF POWERED MECHANICAL EQUIPMENT SHALL BE VERIFIED AND FIELD COORDINATED WITH DIVISION 16 CONTRACTOR BEFORE ANY EQUIPMENT IS PURCHASED OR ORDERED.

6. ALL REQUIRED CONTROL WIRING NOT SHOWN ON ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.

7. UNLESS OTHERWISE NOTED, STARTERS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

8. INSTALL FIRE DAMPERS IN ALL RATED WALL, FLOOR, AND CEILING PENETRATIONS AS APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED AREAS. PROVIDE ACCESS DOORS IN DUCT AT EACH FIRE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH SMOKE AND FIRE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION SMOKE AND FIRE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 LABELED.

9. FIRE ALARM CONTRACTOR SHALL PROVIDE SMOKE DETECTORS FOR THE SUPPLY AND RETURN AIR TRUNKS OF ALL HVAC EQUIPMENT SUPPLYING GREATER THAN 2000 CFM TO ANY SPACE. PER IMC 606, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISPOSITION SYSTEM UPON ACTIVATION. PER IMC 606, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL AS APPLICABLE. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO BE IDENTIFIED AS "AIR DUCT DETECTOR TROUBLE". HVAC UNITS MAY BE RESET AT FIRE ALARM PANEL.

10. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL WIRING AND EQUIPMENT TO MONITOR SMOKE DETECTORS AND SHUT DOWN HVAC UNIT UPON SMOKE DETECTOR ACTIVATION. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS, AND MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING DETECTOR IN DUCT. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND OPERATION OF BUILDING FIRE ALARM SYSTEM.

11. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

12. SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS, SEAMS, AND TAKE-OFFS IN SUPPLY AND RETURN SHEET METAL DUCTWORK SHALL BE SEALED WITH MASTIC DUCT SEALER TO SMACNA CLASS A, NO CLOTH DUCT TAPE IS ALLOWED.

13. ALL SHEET METAL SUPPLY, RETURN, AND VENTILATION AIR DUCT WORK SHALL BE INSULATED WITH FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER, U/L LISTED, MINIMUM R-6 OR OTHERWISE AS REQUIRED BY LOCAL ENERGY CODES. USE R-8 IN ATTICS OR OUTSIDE THE BUILDING INSULATION ENVELOPE. EXHAUST DUCT WORK SHALL BE INSULATED WITH THE SAME WITHIN 10' OF EXTERIOR WALL OR ROOF OPENING.

14. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS. ELECTRICAL DISCONNECTS FOR EQUIPMENT SHALL BE LABELED TO MATCH EQUIPMENT SERVED.

15. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT HANG FROM OR REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND CONNECTION TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.

16. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R-6 MINIMUM VALUE OR AS REQUIRED BY LOCAL ENERGY CODE) IN UNCONDITIONED SPACES. USE R-8 IN ATTICS AND SPACES OUTSIDE THE BUILDING INSULATION ENVELOPE. AIR CONNECTORS ARE NOT ACCEPTABLE. SIZE TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL RCT RUN-OUTS TO PROVIDE A MINIMUM FLEXIBLE DUCT LENGTH OF 5'-0". FLEXIBLE DUCTWORK SHALL BE SUPPORTED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS AS REQUIRED TO CONNECT TO AIR DEVICE NECK.

17. BRANCH RUN-OUT DUCTS SHALL BE SAME SIZE AS DIFFUSER NECK IF NOT NOTED OTHERWISE.

18. SHEET METAL DUCTWORK SHOWN AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK, 3 LB/CFM, DENSITY DUCT LINER, MINIMUM R-4 OR AS REQUIRED BY APPLICABLE ENERGY CODE, CERTAINTED "TOUGHGARD" OR EQUAL BY JOHNS-MANVILLE OR KNAUF. LINE ALL DUCTWORK A MINIMUM OF 15'-0" DOWNSTREAM AND UPSTREAM (WHERE POSSIBLE) OF ALL AIR HANDLING UNITS, FAN COIL UNITS, AND TERMINAL UNITS. LEADING EDGE OF INSULATION SHALL HAVE SHEET METAL NOSING. DUCT THAT IS INTERNALLY INSULATED SHALL BE EXTERNALLY INSULATED AS WELL TO ACHIEVE REQUIRED TOTAL U-VALUE.

19. DUCTWORK DIMENSIONS SHOWN ON DRAWING ARE INSIDE CLEAR DIMENSIONS. CONTRACTOR SHALL ADJUST TOTAL DUCT WORK DIMENSIONS TO ACHIEVE SHOWN INSIDE CLEAR DIMENSIONS.

20. DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS MANAGERS BEFORE EQUIPMENT CAN BE MOVED INTO LOCATION OR INSTALLED.

21. ALL CONDENSATE DRAIN LINES FROM HVAC EQUIPMENT LOCATED INSIDE THE BUILDING SHALL BE TRAPPED AND SHALL DRAIN INTO BUILDING FLOOR DRAINS, ROOF DRAINS, OR STORM DRAINS. CONDENSATE SHALL BE INSULATED SCHEDULE 40 PVC (EXCEPT INSULATED TYPE L COPPER IN HVAC PLENUMS). CONDENSATE SHALL BE PUMPED AS REQUIRED.

22. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPE HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORD OF JOISTS.

23. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRESTOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE MANUFACTURED BY 3M COMPANY, CP25 CAULK, CP195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

24. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THIS WORK SHALL BE REPAIRED TO EXISTING OR LIKE-NEW CONDITION.

25. OUTSIDE HARDWARE FOR EXHAUST FANS SHALL BE PLACED IN A LOCATION SUITABLE TO OWNER. CONTRACTOR SHALL COORDINATE PLACEMENT WITH OWNER BEFORE FINAL INSTALLATION. OUTSIDE HARDWARE FOR EXHAUST FANS AND FRESH AIR INTAKES SHOULD BE CONSTRUCTED SO AS TO BE WEATHERTIGHT AND SHOULD INCLUDE INTEGRAL BIRD OR INSECT SCREENS.

26. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

27. CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCTS AND MATERIALS FOR A COMPLETE MECHANICAL SYSTEM.

SYMBOL - SINGLE LINE	SYMBOL - DOUBLE LINE	DESCRIPTION
		CEILING DIFFUSER
		CEILING RETURN GRILLE
		SIDEWALL SUPPLY REGISTER OR GRILLE
		SIDEWALL RETURN REGISTER OR GRILLE
		EQUIPMENT DESIGNATION
		DIFFUSER TAG: TYPE "A", NECK SIZE 8", BALANCED FOR 200 CFM
		LOUVER TAG: TYPE "WL-1", SIZE FOR 75 CFM @ 500 FPM
		DROP
		RISE
		DUCT SIZE - RECTANGULAR
		DUCT SIZE - ROUND
		DUCT TRANSITION
		RETURN AIR DUCT TURNED DOWN
		RETURN AIR DUCT TURNED UP
		RECT. ELBOW WITH TURNING VANES
		LINED DUCT
		FLEXIBLE DUCT
		DUCT SMOKE DETECTOR
		FIRE DAMPER
		FIRE/SMOKE DAMPER
		CEILING RADIATION DAMPER
		MOTOR OPERATED DAMPER
		MANUAL VOLUME DAMPER
		BACKDRAFT DAMPER
		FLEXIBLE EQUIPMENT CONNECTOR
		THERMOSTAT, HUMIDISTAT, CARBON DIOXIDE WALL-MOUNTED SENSOR, OR AS NOTED
		REVISION TAG (#1)
		UNDER CUT (DOOR) 1"
		CONNECT TO EXISTING

SYMBOL	DESCRIPTION
MBH	1000 BTU/HR
A/C	ABOVE CEILING
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
CD	CONDENSATE DRAIN
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE (IN. W.C.)
HP	HEAT PUMP UNIT OR HORSEPOWER
CU	CONDENSING UNIT
OA	OUTSIDE AIR
WL	WALL LOUVER
FC	FLEXIBLE EQUIPMENT CONNECTOR
IDU	DUCTED OR DUCTLESS MINI-SPLIT FAN COIL
ODU	MINI-SPLIT HEAT PUMP OR CONDENSING UNIT
FNU	FURNACE UNIT
DN	DOWN
CTE	CONNECT TO EXISTING

TAG	BASIS OF DESIGN	AREA SERVED	TYPE	NOM TON	SUPPLY AIR CFM	OA CFM	E.S.P. (IWG)	COOLING CAP. (MBH)	COOLING EFFIC. (SEER)	HEATING CAP. 17"(MBH)	HEATING CAP. 47"(MBH)	HEATING EFFIC. (HSPF)	AUX. ELEC. HEATERS	OPERATING WEIGHT (LBS)	NOTES
													KW/STAGES		
HP / AHU-1	CARRIER 25HCB636 / FV4CNB003	OFFICE	VERTICAL SPLIT	3	1200	50	0.5	- / 36	16	-	36.0	8.2	8/1	164 / 135	1,2,3,4,5,8
HP / AHU-2	CARRIER 25HCB624 / FV4CNB002	WAITING	VERTICAL SPLIT	2	800	80	0.5	- / 24	16	-	24.0	8.2	8/1	218 / 172	1,2,3,4,5,8,10
HP / AHU-3	CARRIER 25HCB624 / FV4CNB002	OFFICE	VERTICAL SPLIT	2	800	50	0.5	- / 24	16	-	24.0	8.2	8/1	218 / 172	1,2,3,4,5,8,10
HP / AHU-4	CARRIER 25HCB648 / FV4CNB005	OFFICE	VERTICAL SPLIT	4	1500	50	0.5	- / 48	16	16.4	48.0	8.2	15/2	91 / 29	1,2,3,4,6,7,8,9
HP / AHU-5	CARRIER 25HCB630 / FV4CNB003	TRAINING	VERTICAL SPLIT	2.5	1000	160	0.5	- / 30	16	-	30.0	8.2	8/1	153 / 56	1,2,3,4,6,7,8,9,11
HP / AHU-6	CARRIER 25HCB636 / FV4CNB003	OFFICE	VERTICAL SPLIT	3	1200	50	0.5	- / 36	16	-	36.0	8.2	8/1	164 / 135	1,2,3,4,5,8
HP / WFC-7	mitsubishi PUZA18NH4A / PKAA18HA4	IT CLOSET	WALL-MOUNTED	1.5	425	-	-	12.5 / 18.0	15.3	13.0	19.0	9.5	-	91 / 29	1,2,3,4,6,7,8,9

[illegible]

TAG	DESCRIPTION	NOTES
A	STEEL SQUARE CONE DIFFUSER, FIXED AIR PATTERN, 4-WAY THROW, ROUND NECK, SIZED AS SHOWN, WHITE, LAY-IN FRAME, PRICE \$CD.	1,2,3
B	STEEL DOUBLE DEFLECTION SUPPLY GRILLE, ADJUSTABLE PATTERN, 3/4" SPACING BETWEEN BLADES, SIZE AS SHOWN, FRONT BLADES PARALLEL TO SHORT DIMENSION, O.B. DAMPER WHEN DUCT MOUNTED, PRICE \$20.	1,2,3
C	STEEL 45° DEFLECTION RETURN GRILLE, 3/4" SPACING BETWEEN BLADES, SIZE AS SHOWN, O.B. DAMPER WHEN DUCT MOUNTED, PRICE \$30.	4
D	1/2"X1/2"X1/2" ALUMINUM EGG CRATE RETURN GRILLE, LAY-IN FRAME, 24X12 OR 12X12 SIZE, PLENUM TYPE OR ROUND DUCT CONN. NECK AS SHOWN, PRICE \$0.	1,4

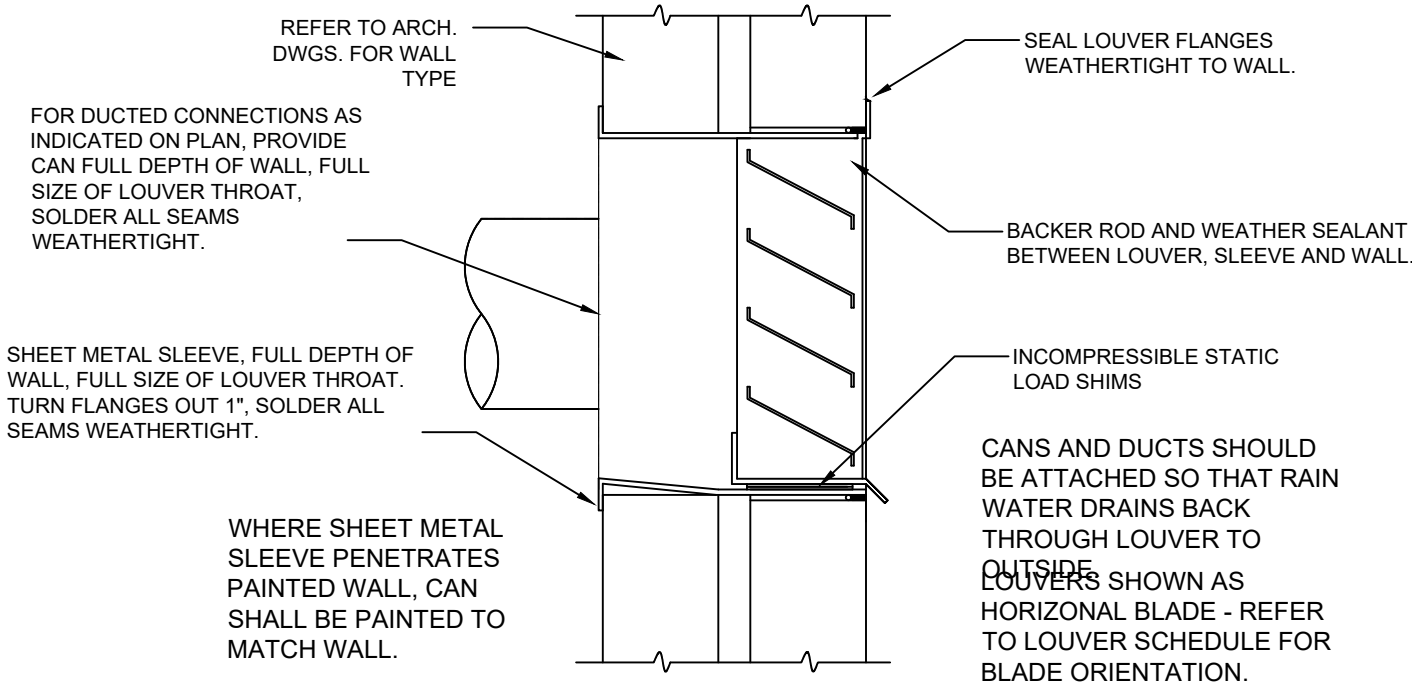
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PROVIDE CARRIER i-VU HVAC CONTROLS SYSTEM w/ BACNET CARDS IN EACH SYSTEM. PROVIDE CONTROL PANEL IN MAIN MECHANICAL ROOM. PROVIDE WALL SENSORS IN EACH ZONE AS INDICATED. ALL SET POINTS SHALL BE BASED ON SCHEDULING. MINIMUM OVERRIDE AT WALL SENSOR FOR TEMPORARY STAFF ADJUSTMENT FOR 3 HRS. TEMPERATURE REVERTS BACK TO SCHEDULE AT THE END OF TEMPORARY ADJUSTMENT TIME. PROVIDE WIFI CAPABILITIES FOR FACILITY PERSONNEL TO MONITOR REMOTELY. PROVIDE ALL PARTS AND PIECES FOR A FULLY FUNCTIONAL SYSTEM.

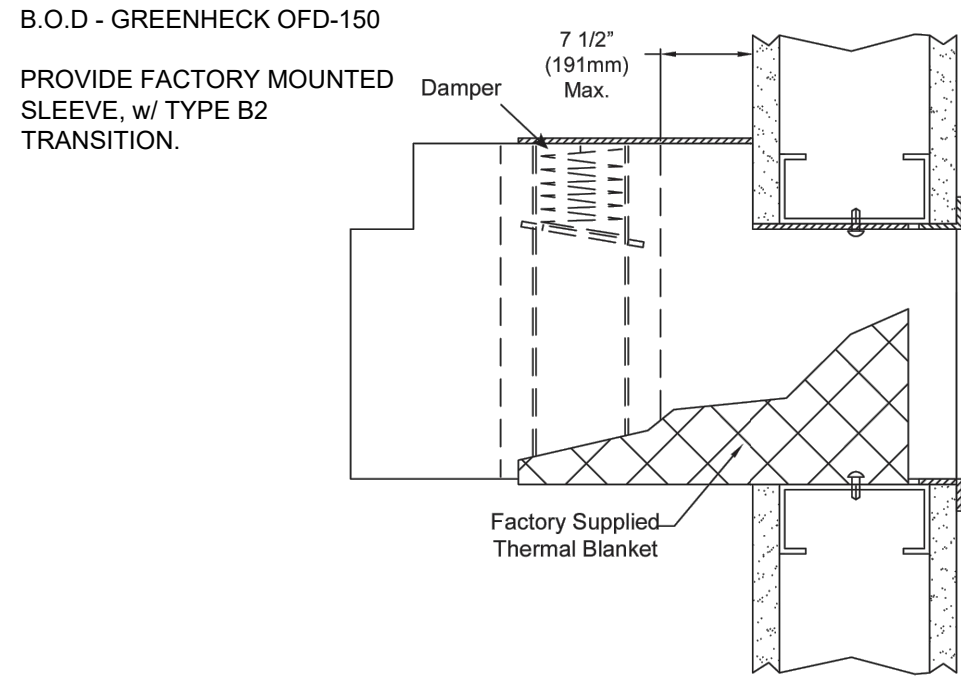
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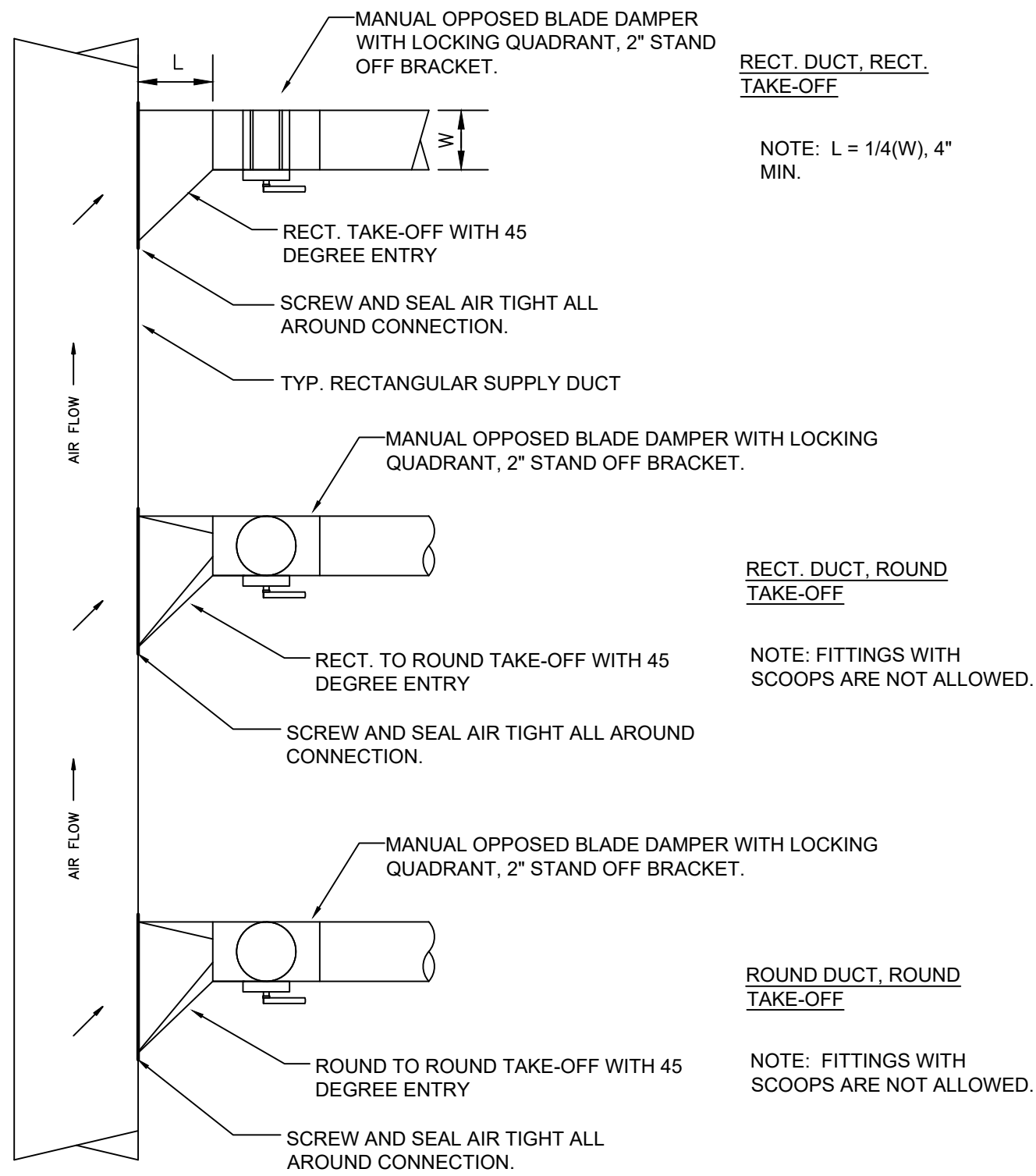
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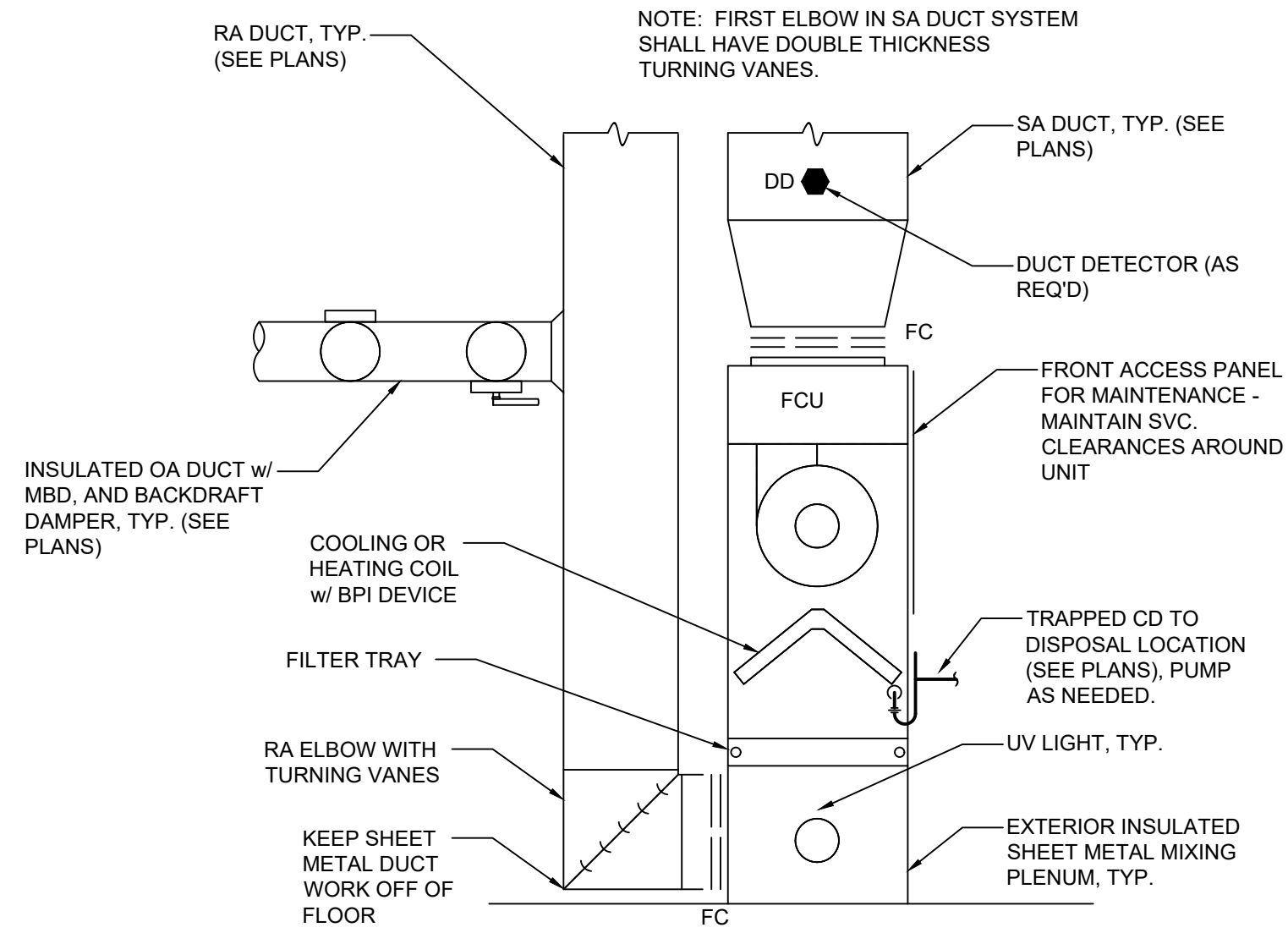
TYP. WALL LOUVER DETAIL



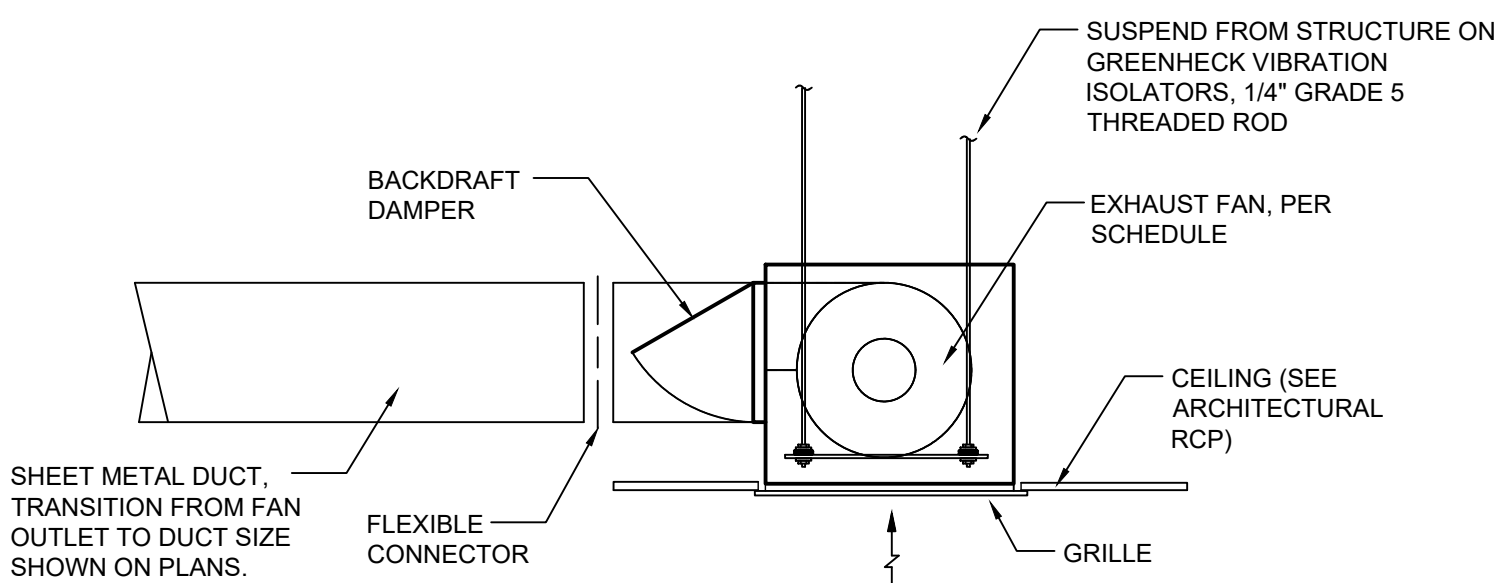
VERTICAL FIRE DAMPER w/ INSULATED SLEEVE



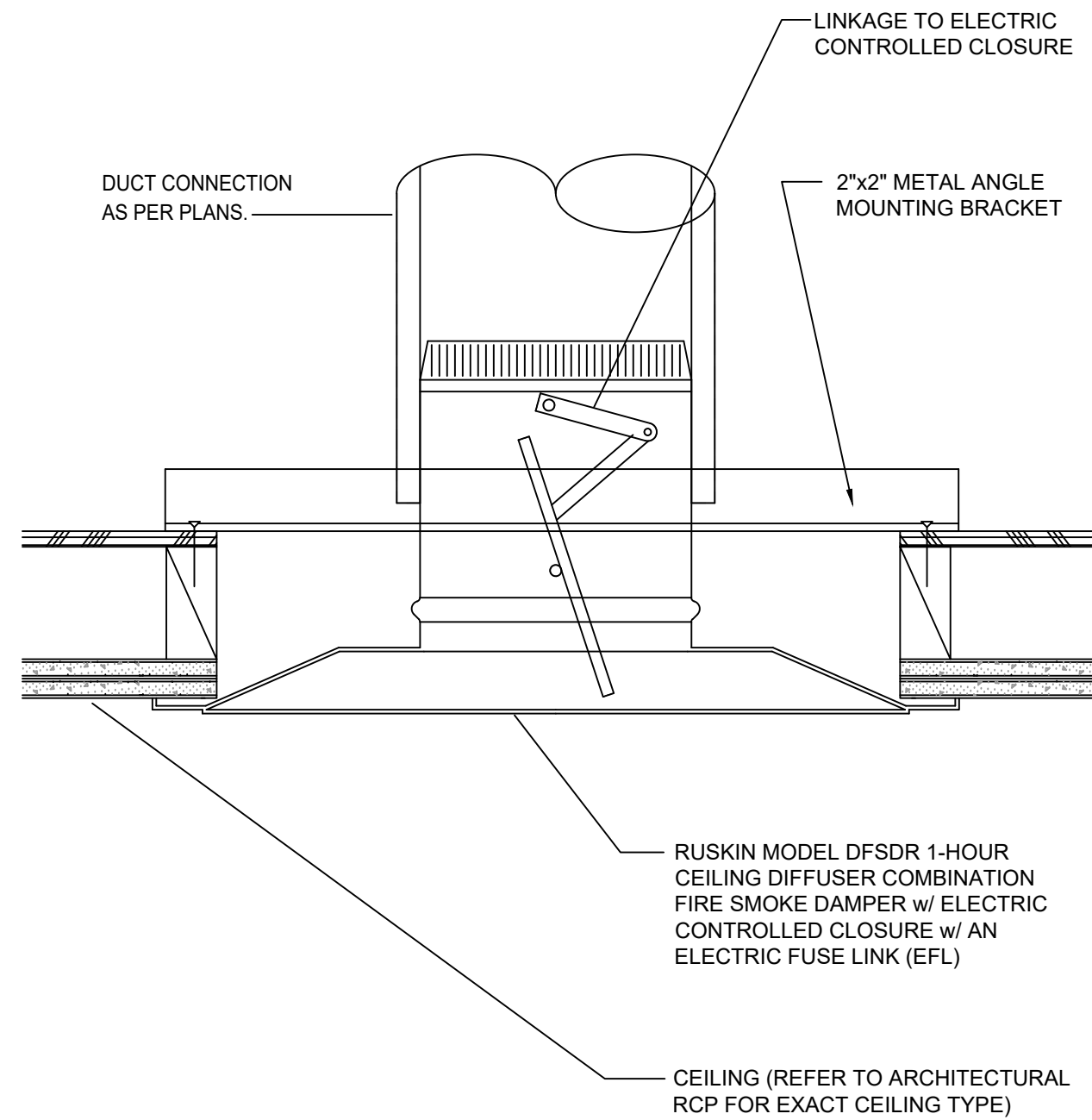
BRANCH DUCT TAKE-OFF DETAILS



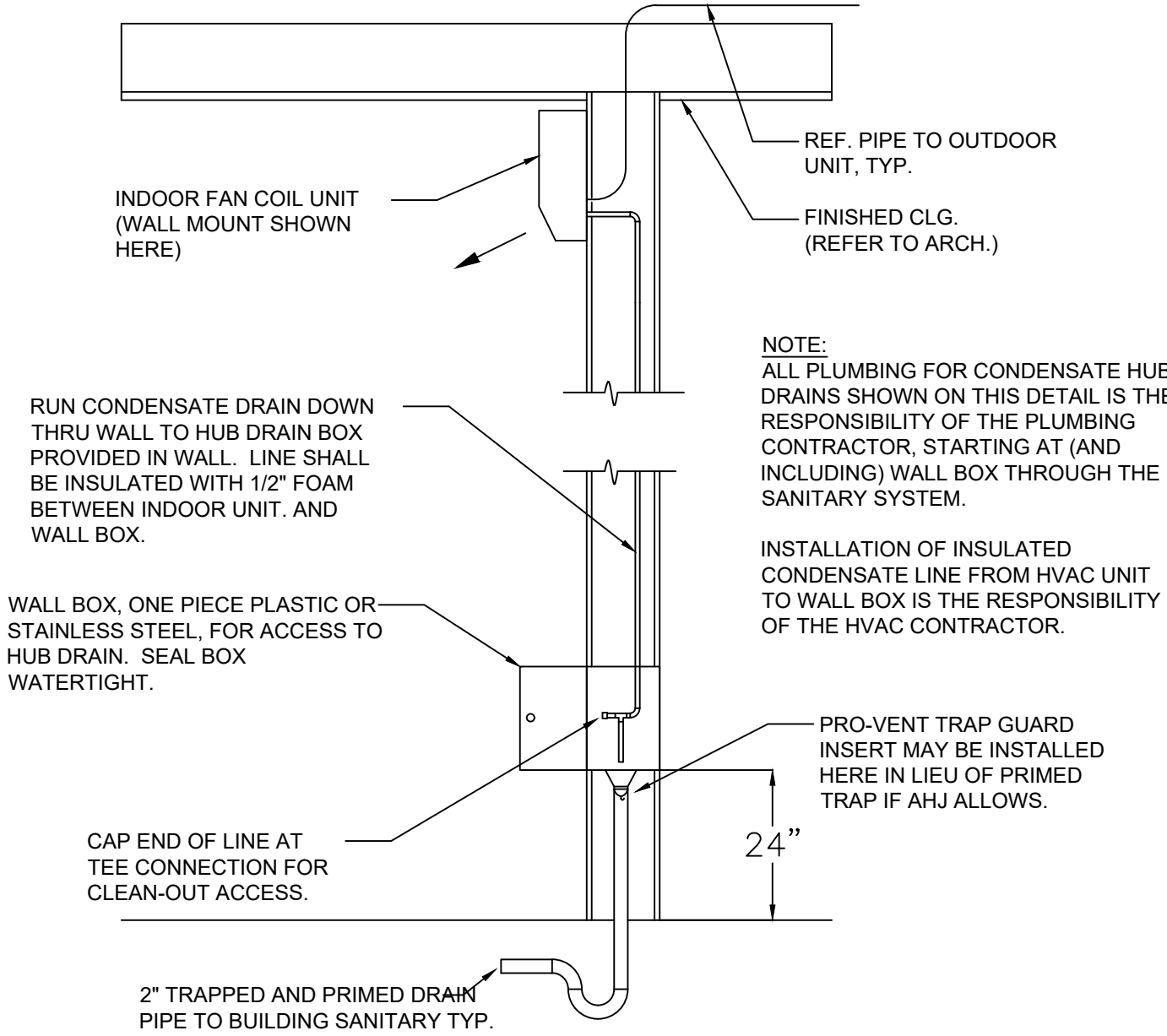
TYP. VERTICAL FAN COIL OR AIR HANDLING UNIT DETAIL



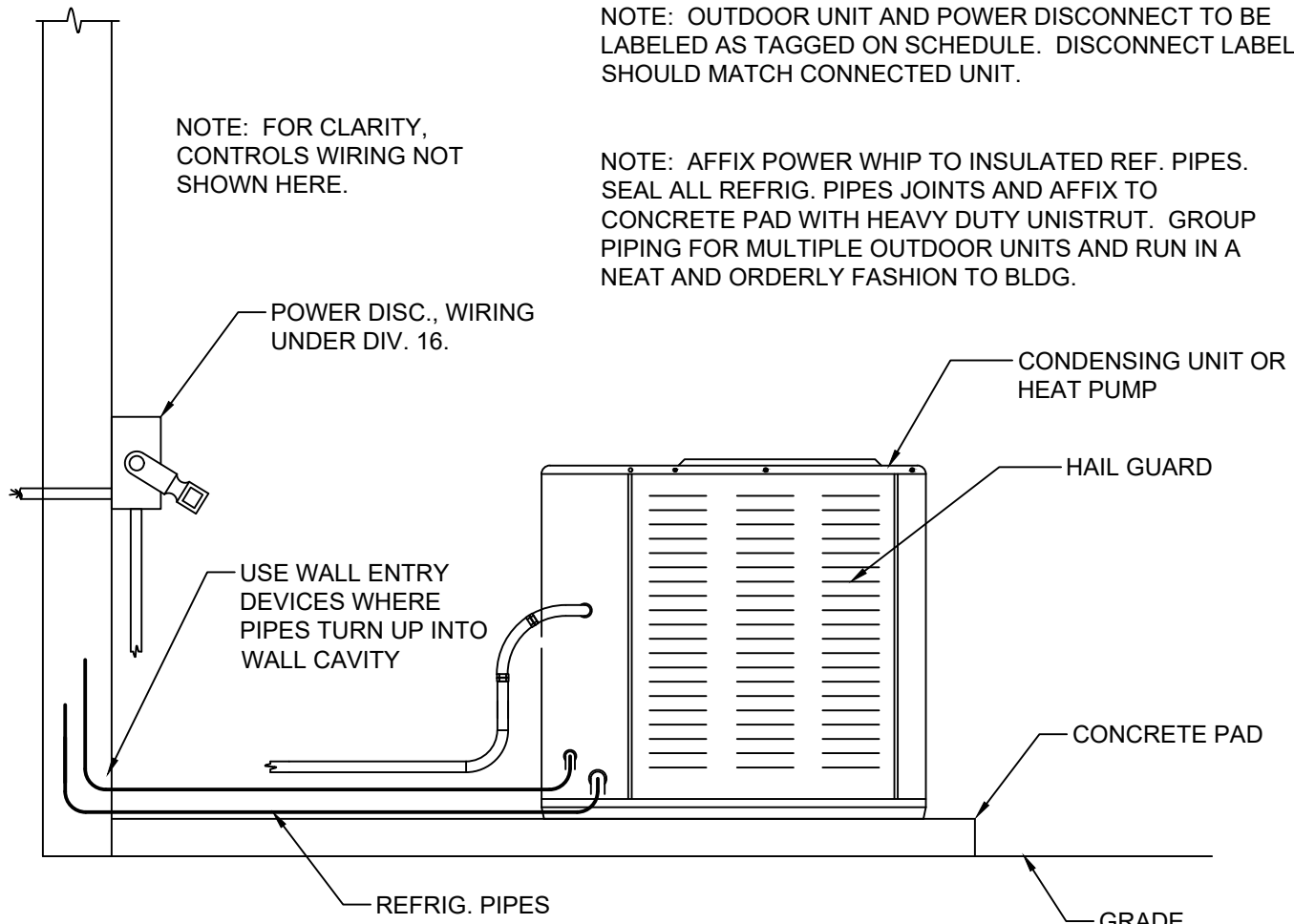
CEILING MOUNT EXHAUST FAN DETAIL



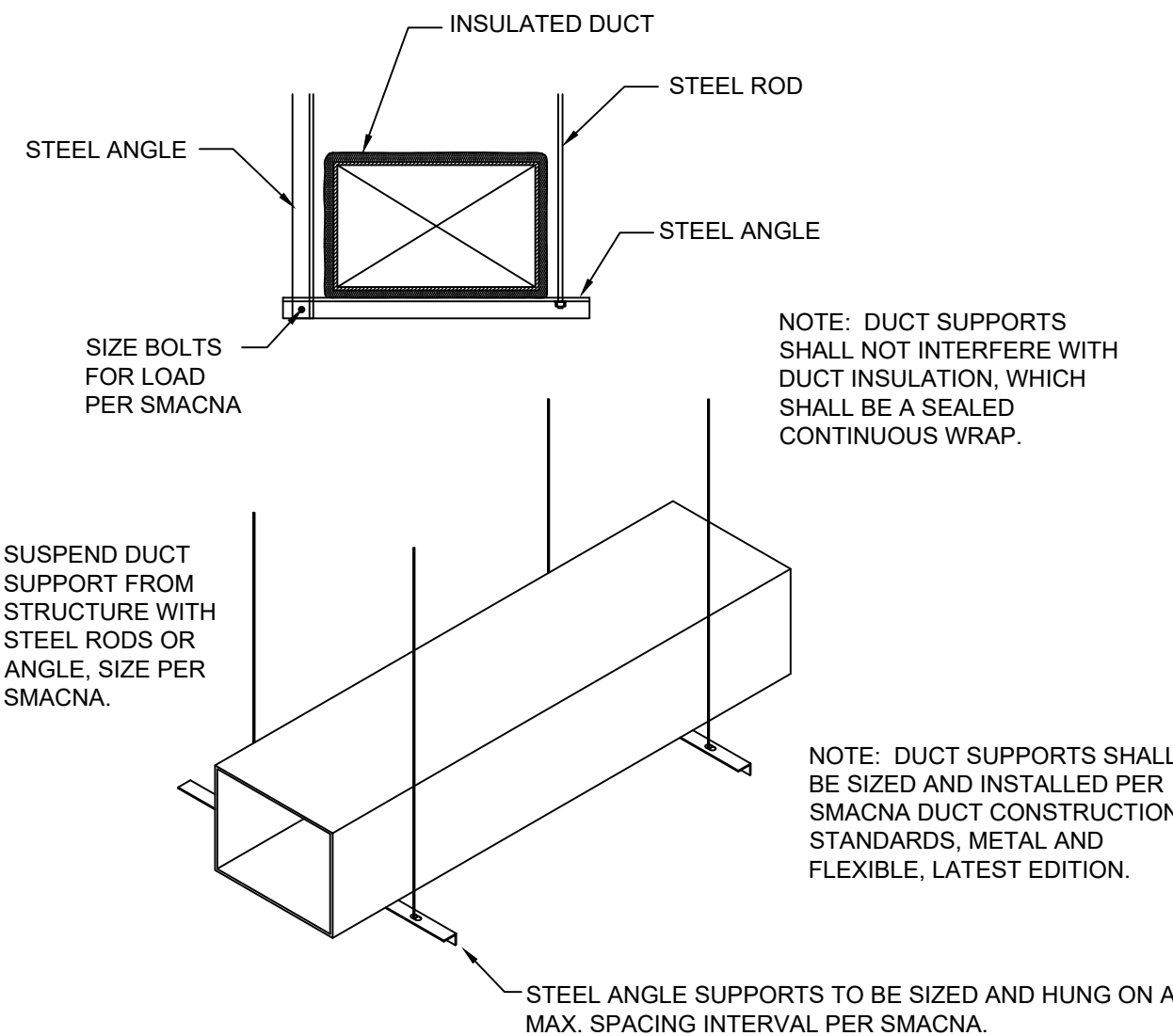
UL APPROVED RUSKIN CORRIDOR FIRE-SMOKE DAMPER DETAIL



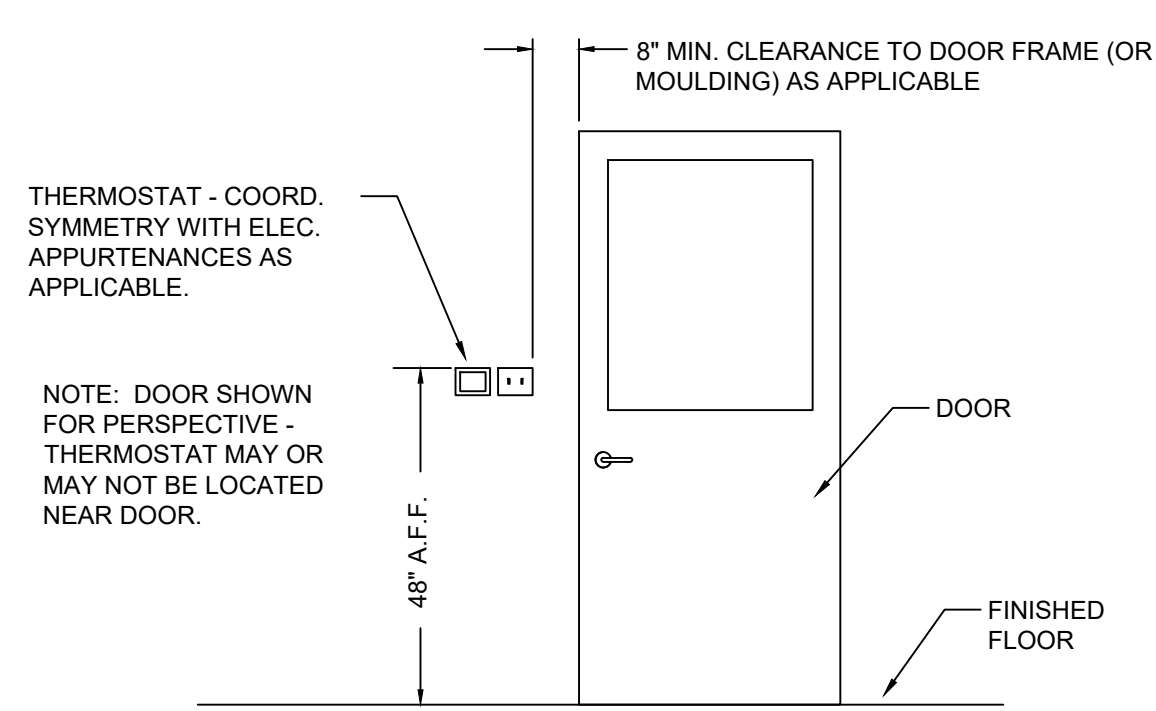
MINI-SPLIT WALL MOUNT FAN COIL UNIT DETAIL



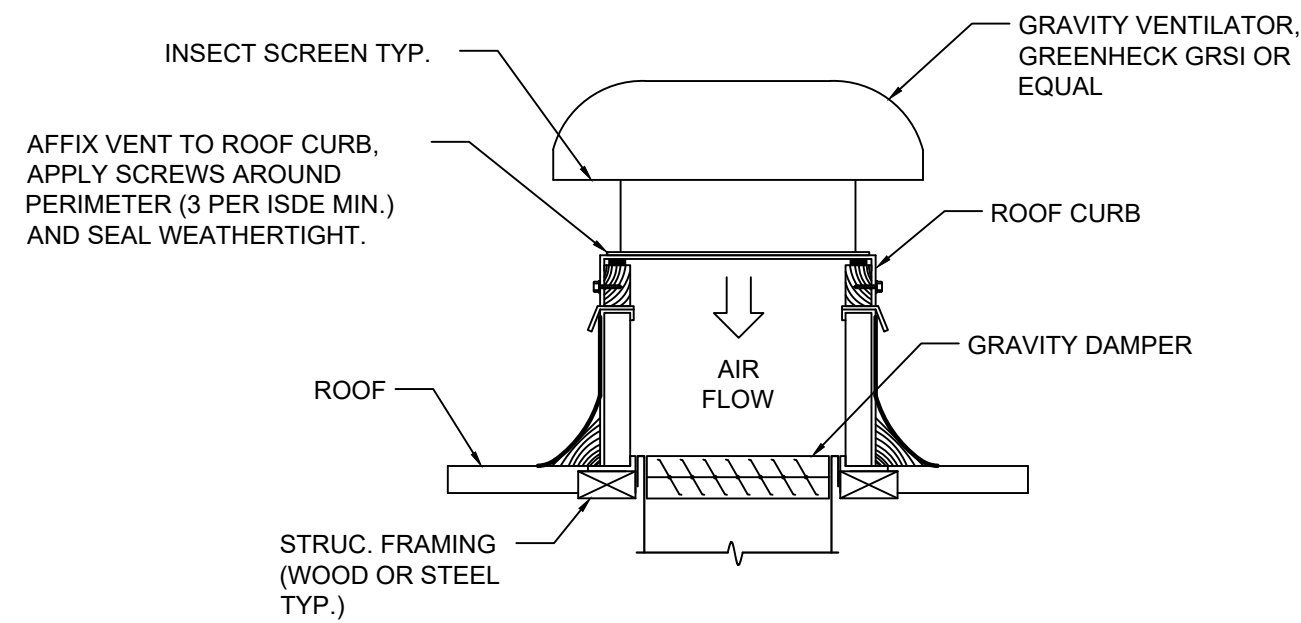
TYP. GROUND MOUNT OUTDOOR CONDENSING UNIT DETAIL



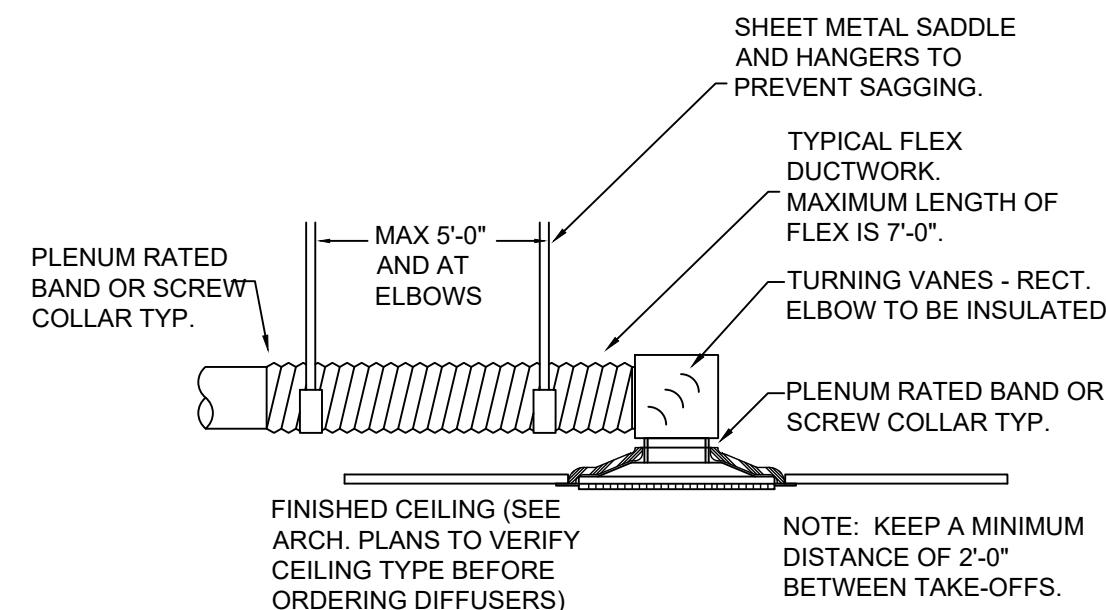
TYP. RECTANGULAR DUCT LOWER SUPPORT DETAILS



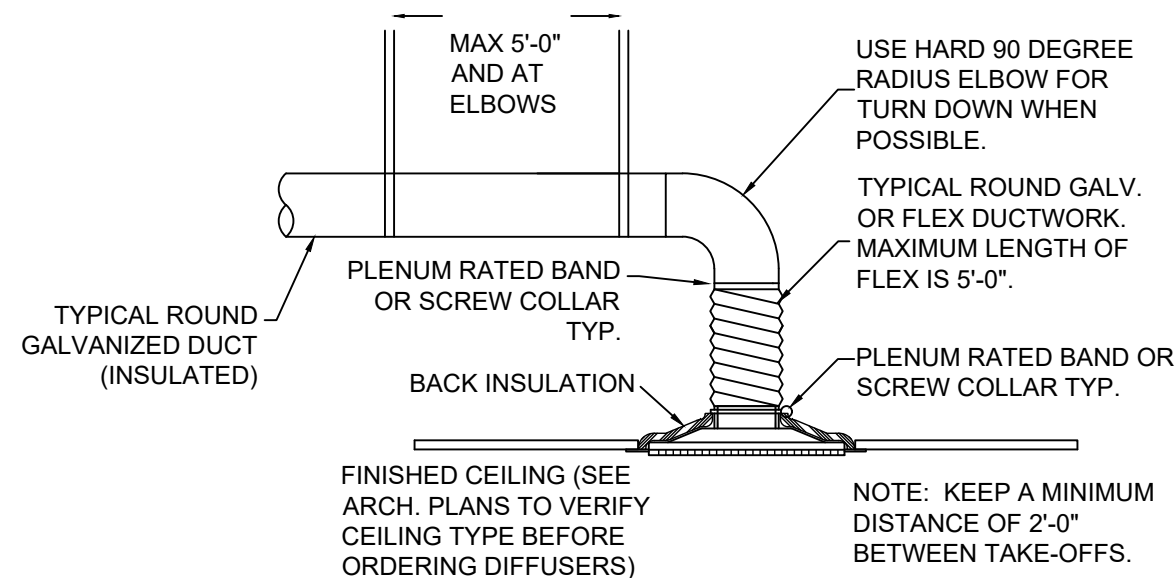
TYP. THERMOSTAT OR WALL SENSOR INSTALLATION DETAIL



GRAVITY TYPE ROOF VENTILATOR DETAIL - INTAKE

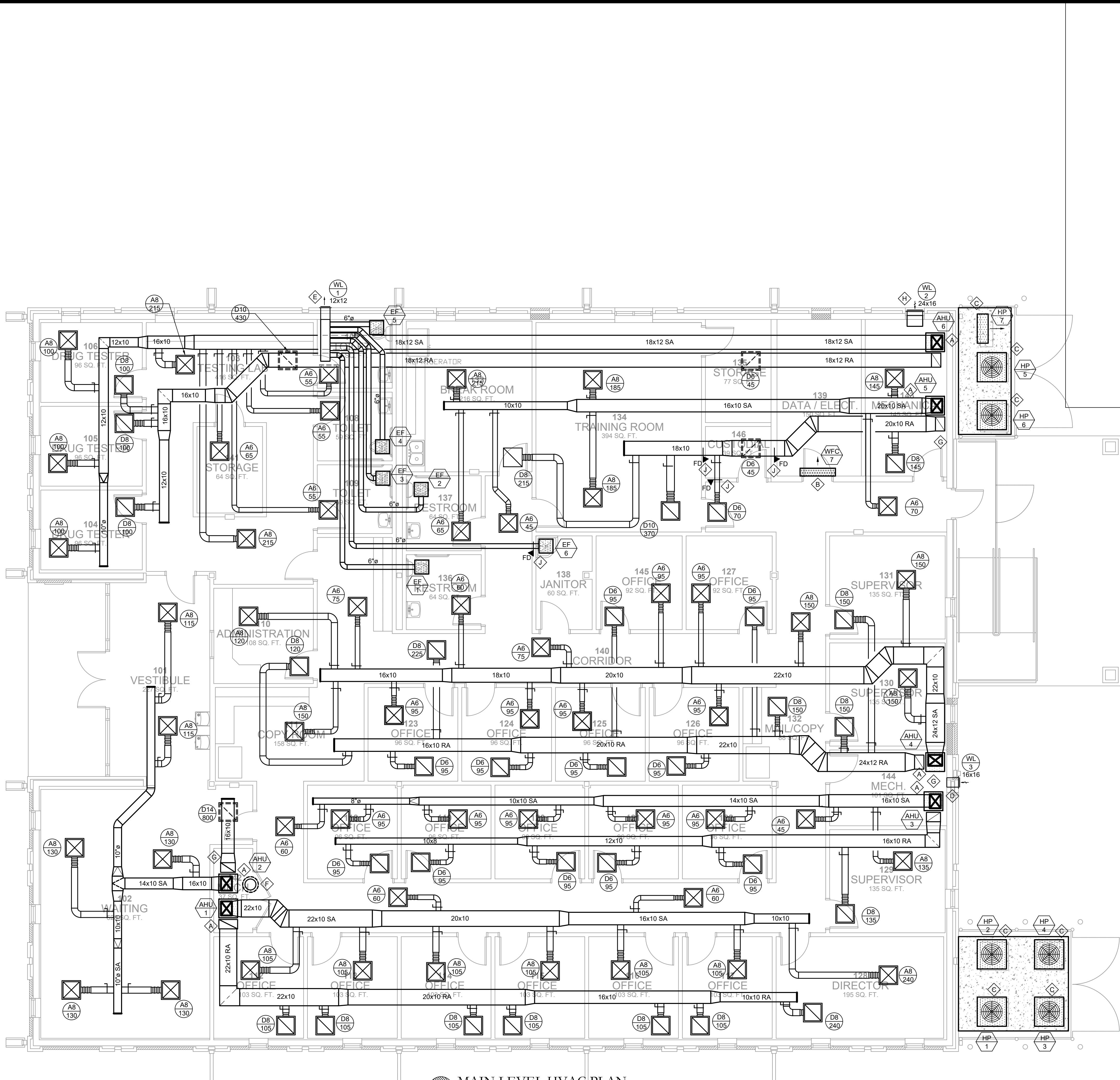


LOW CLEARANCE BRANCH DUCT DETAIL

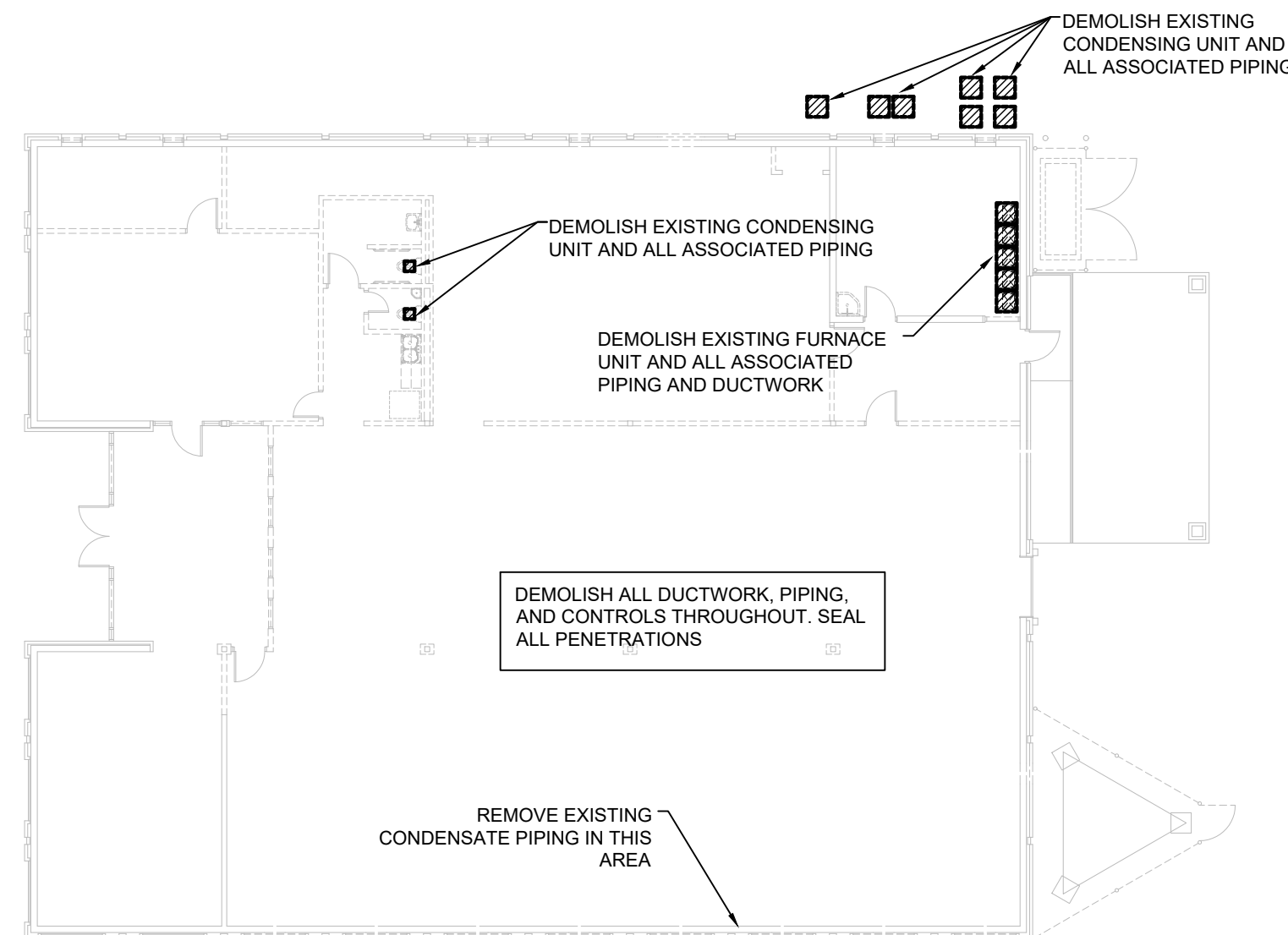


BRANCH RUN-OUT DETAIL

FOR CONSTRUCTION



MAIN LEVEL HVAC PLAN
SCALE: 3/16" = 1'-0"



HVAC DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

CONSTRUCTION KEY NOTES

- A. TYPICAL VERTICAL AIR HANDLING UNIT MOUNTED ABOVE RETURN PLENUM MIXING BOX w/ UV LIGHT & BI-POLAR IONIZATION DEVICE. ROUTE CONDENSATE TO DRAIN PROVIDED. REFER TO PLUMBING DOCUMENTS FOR EXACT LOCATION.
- B. TYPICAL WALL MOUNTED FAN COIL MOUNTED OVER DOOR, PER MANUFACTURER'S RECOMMENDATIONS. ROUTE CONDENSATE TO DRAIN PROVIDED. REFER TO PLUMBING DOCUMENTS FOR EXACT LOCATION. LOCATE WALL MOUNTED THERMOSTAT NEAR DATA EQUIPMENT.
- C. TYPICAL OUTDOOR UNIT HEAT PUMP. PROVIDE 4" CONCRETE EQUIPMENT PAD FOR UNITS. PROVIDE w/ CONDENSING UNIT STEEL CAGE EQUIVALENT TO AC-GUARD, ARMOR 3.
- D. EXTERIOR INTAKE AIR WALL LOUVER MOUNTED AT 18" AFF. PROVIDE w/ BACKDRAFT DAMPER. LOUVER COLOR SHALL MATCH WALL OR AS DIRECTED BY ARCHITECT.
- E. EXTERIOR EXHAUST AIR WALL LOUVER MOUNTED ABOVE CEILING. ALLOW ROOM FALL ALL DUCTWORK IN THIS CONGESTED AREA. TEST FIT ALL DUCTWORK IN THIS AREA BEFORE START OF INSTALLATION IN THIS AREA. SPACE ABOVE CEILING IS LIMITED AND ALL SYSTEMS MUST BE TAKEN INTO ACCOUNT
- F. GRAVITY INTAKE ROOF CAP. INSTALLED PER DETAIL. ROOF ASSEMBLY IS TECTUM. EXTEND PLENUM THRU FULL ROOF ASSEMBLY DOWN TO OUTSIDE AIR CONNECTIONS.
- G. REFER TO ENLARGED MECHANICAL CLOSET PLAN FOR MORE INFORMATION.
- H. EXTERIOR INTAKE AIR WALL LOUVER MOUNTED IN EXISTING WINDOW OPENING. MOUNT BOTTOM OF LOUVER @ APPROX. 3'-6" AFF. DO NOT CUT BLOCK/BRICK FOR LOUVER. LOUVER SHALL BE MOUNTED IN EXISTING OPENING. REFER TO ARCHITECTURAL FOR MORE INFORMATION. PROVIDE w/ BACKDRAFT DAMPER. LOUVER COLOR SHALL MATCH WALL OR AS DIRECTED BY ARCHITECT.
- I. NOT USED
- J. PROVIDE OUT-OF-THE-WALL FIRE DAMPER, EQUIVALENT TO GREENHECK OFD-150. PROVIDE w/ FACTORY SUPPLIED THERMAL BLANKET TO WRAP SLEEVE FOR CONTINUOUS DUCT INSULATION THRU PENETRATION

GENERAL NOTES (THIS SHEET)

- 1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL AND FOUNDATIONS DOCUMENTS FOR ALL DIMENSIONS. FIELD VERIFIED SHOP DRAWINGS MUST BE PROVIDED BY SUB CONTRACTOR PRIOR TO WORK EFFORT. DRAWINGS OR APPROVAL OF SUCH DOES NOT RELEASE SUB FROM ACCURACY. WORK QUALITY, WARRANTY OR PERFORMANCE OF INSTALLATION.
- 2. ALL TOILET ROOM DOORS SHALL BE UNDERCUT 3/4" FOR PROPER MAKE-UP AIR TRANSFER.
- 3. ALL REFRIGERANT PIPING SHALL BE HARD PIPE. DO NOT ROUTE CONTINUOUS FLEXIBLE TUBE.

PROJECT NUMBER
23-001

DATE
06/30/23

REVISIONS
NO. DATE
0000 00/00/00

FACILITY CODE
000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
PROBATION OFFICE
400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS



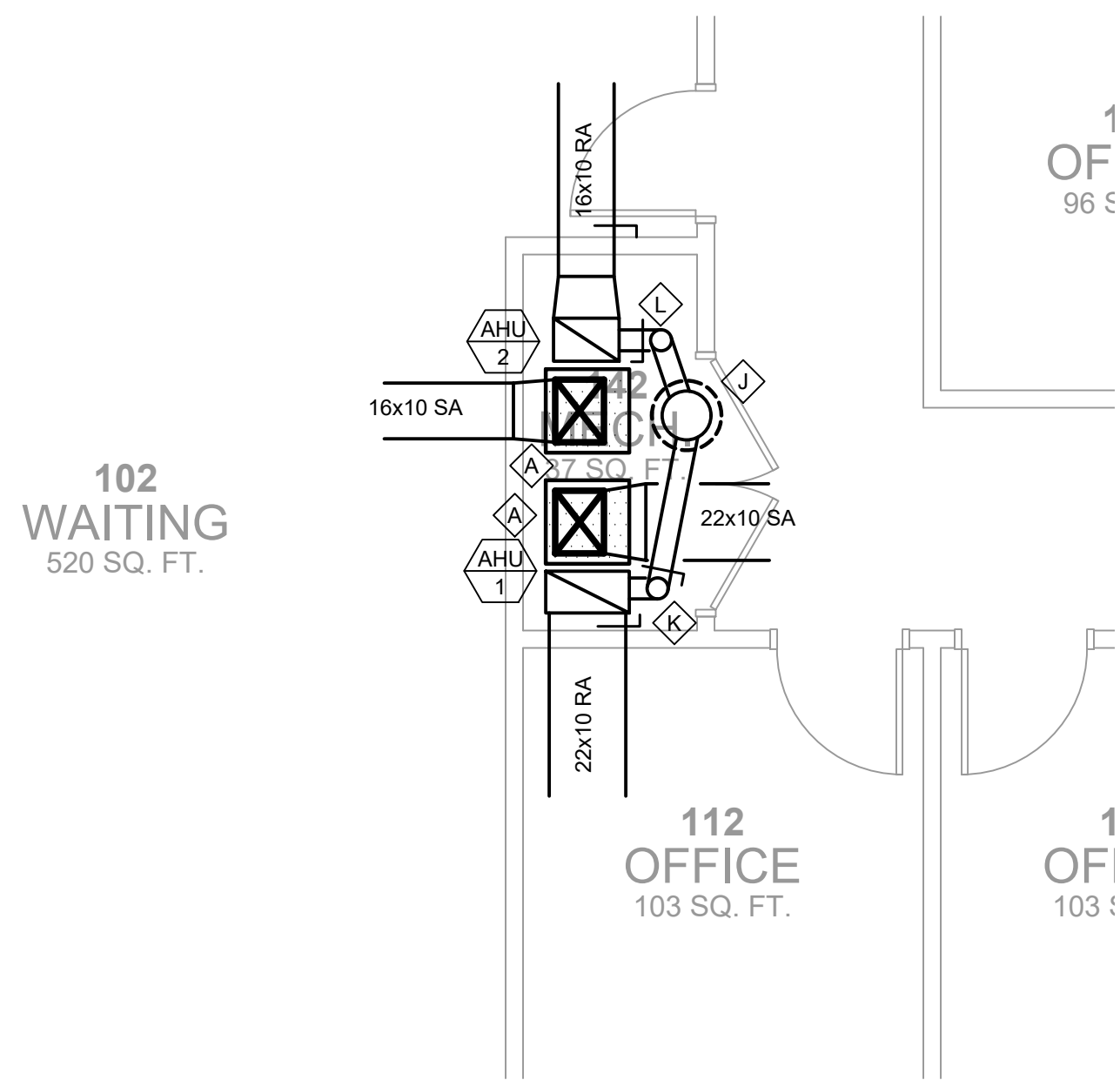
SHEET INDEX
SHEET NAME
HVAC PLAN

SHEET INDEX

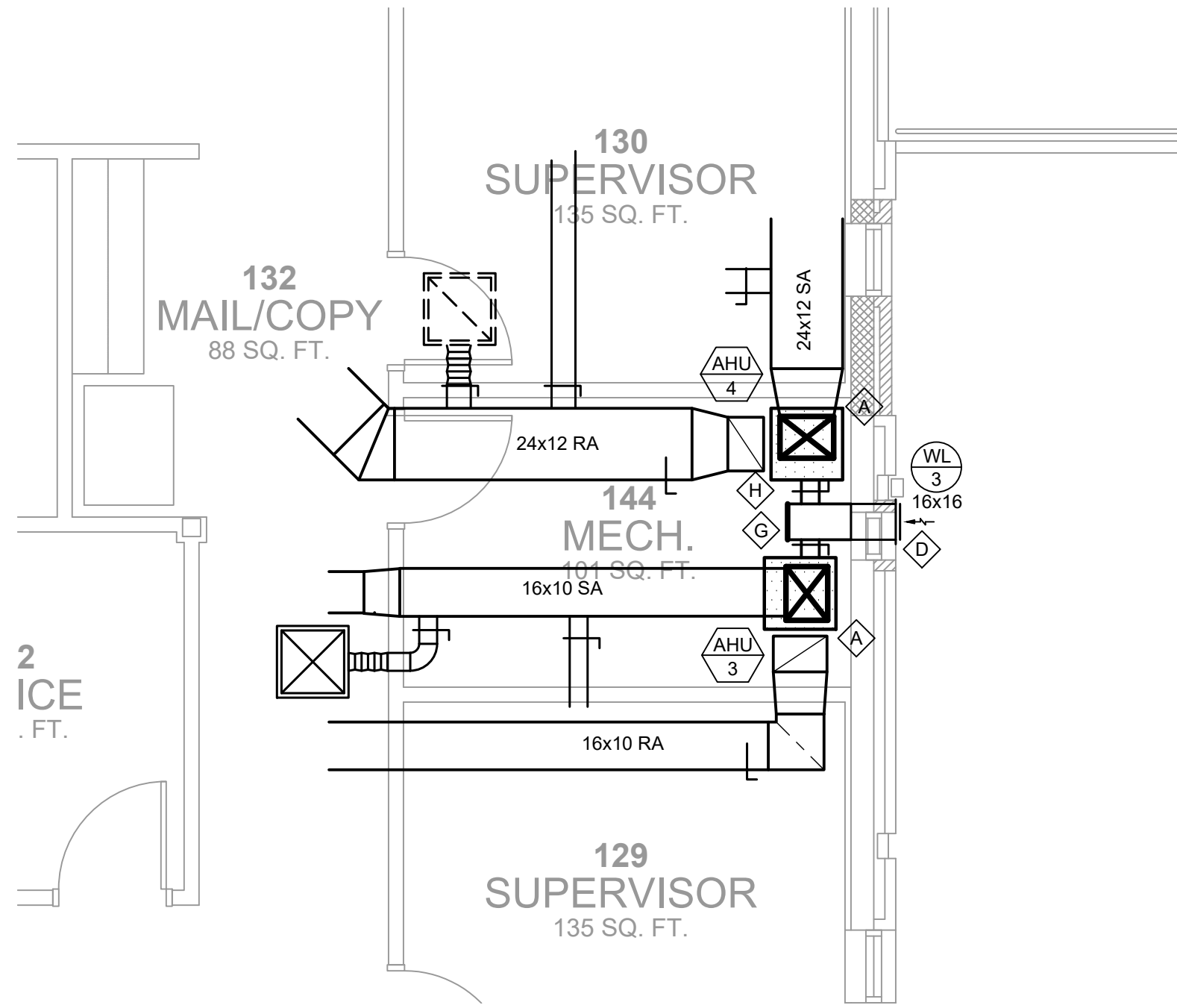
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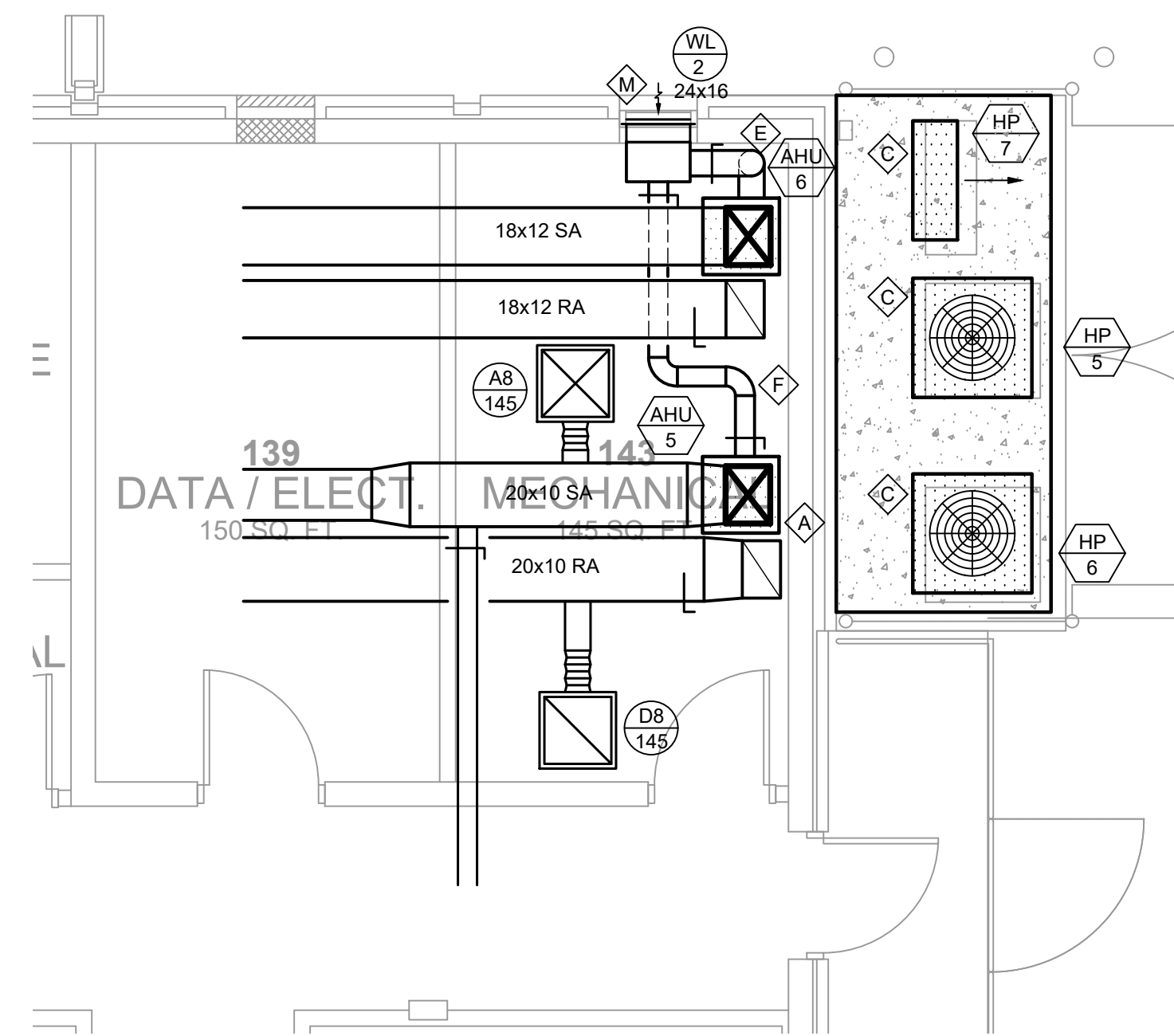
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ENLARGED HVAC PLAN @ 142 MECH CLOSET
SCALE: 1/4" = 1'-0"



ENLARGED HVAC PLAN @ 144 MECH CLOSET
SCALE: 1/4" = 1'-0"



ENLARGED HVAC PLAN @ 143 MECH CLOSET
SCALE: 1/4" = 1'-0"

- ### CONSTRUCTION KEY NOTES
- TYPICAL VERTICAL AIR HANDLING UNIT MOUNTED ABOVE RETURN PLENUM MIXING BOX w/ UV LIGHT & BI-POLAR IONIZATION DEVICE. ROUTE CONDENSATE TO DRAIN PROVIDED. REFER TO PLUMBING DOCUMENTS FOR EXACT LOCATION.
 - TYPICAL WALL MOUNTED FAN COIL MOUNTED OVER DOOR. PER MANUFACTURER'S RECOMMENDATIONS. ROUTE CONDENSATE TO DRAIN PROVIDED. REFER TO PLUMBING DOCUMENTS FOR EXACT LOCATION. LOCATE WALL MOUNTED THERMOSTAT NEAR DATA EQUIPMENT.
 - TYPICAL OUTDOOR UNIT HEAT PUMP. PROVIDE 4" CONCRETE EQUIPMENT PAD FOR UNITS. PROVIDE w/ CONDENSING UNIT STEEL CAGE EQUIVALENT TO AC-GUARD, ARMOR 3.
 - EXTERIOR INTAKE AIR WALL LOUVER MOUNTED AT 18" AFF. PROVIDE w/ BACKDRAFT DAMPER. LOUVER COLOR SHALL MATCH WALL OR AS DIRECTED BY ARCHITECT.
 - ROUTE 8" OA DUCT TO AHU-6 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - ROUTE 6" OA DUCT TO AHU-5 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - ROUTE 6" OA DUCT TO AHU-3 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - ROUTE 6" OA DUCT TO AHU-4 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - NOT USED
 - GRAVITY RELIEF INTAKE ROOF CAP. EQUIVALENT TO GSRI-08. ON FACTORY ROOF CURB. PROVIDE CURB ASSEMBLY FOR ROOFING TYPE APPLICATION. ROOFING MATERIAL IS TECTUM. EXTEND PLENUM THRU ROOF ASSEMBLY FOR CONNECTIONS TO OUTSIDE AIR BRANCHES.
 - ROUTE 6" OA DUCT TO AHU-1 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - ROUTE 6" OA DUCT TO AHU-2 RETURN MIXING BOX UNDER UNIT. PROVIDE MANUAL BALANCING DAMPER ON RETURN DUCT AND OA DUCT FOR PROPER BALANCING. BALANCE OUTSIDE AIR FOR VALUE INDICATED IN SCHEDULE
 - EXTERIOR INTAKE AIR WALL LOUVER MOUNTED IN EXISTING WINDOW OPENING. MOUNT BOTTOM OF LOUVER @ APPROX. 3'-6" AFF. DO NOT CUT BLOCK/BRICK FOR LOUVER. LOUVER SHALL BE MOUNTED IN EXISTING OPENING. REFER TO ARCHITECTURAL FOR MORE INFORMATION. PROVIDE w/ BACKDRAFT DAMPER. LOUVER COLOR SHALL MATCH WALL OR AS DIRECTED BY ARCHITECT.

- ### GENERAL NOTES (THIS SHEET)
- BUILDING IS NOT PROTECTED BY NFPA FIRE SPRINKLER SYSTEM. ALL EGRESS CORRIDORS PENETRATIONS MUST BE PROTECTED. PER IMC. EXCEPTIONS ARE TAKEN WHERE POSSIBLE. PROVIDE STEEL SLEEVES AT CORRIDOR PENETRATIONS SMALLER THAN 100 SQUARE INCHES. PROVIDE FIRE DAMPERS AT LARGER PENETRATIONS. ALTHOUGH THE CORRIDOR CEILING IS NOT RATED, DIFFUSERS AND GRILLES SERVING CORRIDORS SHALL BE PROTECTED w/ COMBINATION FIRE / SMOKE DAMPERS (UNLESS OTHERWISE NOTED) IN ORDER TO TAKE ADDITIONAL EXCEPTIONS.
 - DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT; REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL AND FOUNDATIONS DOCUMENTS FOR ALL DIMENSIONS. FIELD VERIFIED SHOP DRAWINGS MUST BE PROVIDED BY SUB CONTRACTOR PRIOR TO WORK EFFORT. DRAWINGS OR APPROVAL OF SUCH DOES NOT RELEASE SUB FROM ACCURACY. WORK QUALITY, WARRANTY OR PERFORMANCE OF INSTALLATION.
 - ALL TOILET ROOM DOORS SHALL BE UNDERCUT 3/4" FOR PROPER MAKE-UP AIR TRANSFER.
 - ALL REFRIGERANT PIPING SHALL BE HARD PIPE. DO NOT ROUTE CONTINUOUS FLEXIBLE TUBE.

FOR CONSTRUCTION

PROJECT NUMBER
23-001

DATE
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KRH
INCORPORATED ARCHITECTS

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CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX
SHEET NAME
ENLARGED HVAC
PLANS

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M1.2

GENERAL PLUMBING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ACCEPTED VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH ADOPTED STATE AMENDMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. PLUMBING FIXTURES SHALL BE "HIGH EFFICIENCY" WITH WATER SENSE COMPLIANT FLOW OR FLUSH RATES AS REQUIRED BY GEORGIA AMENDMENTS TO THE IPC.
3. EXPOSED FIXTURES: CHROME PLATED BRASS AND COPPER TUBING WITH THREADED PLATED BRASS FITTINGS.
4. JOIN PIPES TO DISSIMILAR METALS WITH DIELECTRIC UNIONS OR SIMILAR ISOLATING DEVICES, DO NOT DIRECTLY CONNECT TO PIPES OF DISSIMILAR METALS.
5. ROUTE PIPING PARALLEL TO BUILDING STRUCTURE AND MAINTAIN GRADIENT.
6. INSTALL PIPING TO MAINTAIN HEADROOM. GROUP PIPING TO CONSERVE SPACE. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.
7. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
8. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
9. SLEEVE PIPE PASSING THROUGH PARTITIONS, WALLS AND FLOORS.
10. INSTALL IDENTIFICATION ON PIPING SYSTEMS OR INSULATION COVERINGS INCLUDING UNDERGROUND PIPING PER PIPE LABELING DETAIL. LABELS SHALL INCLUDE NAME OF FLUID INSIDE PIPE ALONG WITH DIRECTIONAL FLOW ARROWS. ALL GAS PIPING SHALL BE PAINTED YELLOW WITH PIPE MARKERS APPLIED AFTER PAINTING. NON-STEEL GAS PIPING SHALL HAVE LABELS APPLIED NOT EXCEEDING 5 FEET APART.
11. PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.
12. CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THE WORK SHOWN.
13. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PIPE SLOPES SHOULD BE VERIFIED TO ENSURE PROPER ELEVATIONS ARE OBTAINED AT CONNECTION POINTS.
14. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
15. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS, AND METERS.
16. ALL SANITARY DRAINAGE PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, AND ALL SANITARY DRAINAGE PIPES 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM. GREASE WASTE PIPES SHALL ALL BE SLOPED AT MIN. 1/4" PER FOOT.
17. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
18. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" OF ACCESS PANELS, CELING TILES, OR OTHER POINTS OF ACCESS.
19. PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT ROOM.
20. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
21. TOPS OF ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE LEVEL WITH FINISHED FLOOR AT INSTALLATION LOCATION TO PREVENT TRIP HAZARDS - FLOORS SHALL SLOPE TO FLOOR DRAINS.
22. PRIME ALL FLOOR DRAIN AND INDIRECT DRAIN TRAPS WITH WATER BASED TRAP PRIMERS AS SHOWN ON PLANS. MECH. TRAP GUARDS MAY BE USED IN LIEU OF WATER BASED TRAP PRIMERS WHERE THE AUTHORITY HAVING JURISDICTION ALLOWS.
23. ALL VENT AND FLUE OUTLETS SHALL BE 10'-0" MINIMUM FROM ANY FRESH AIR INTAKE.
24. DURING THE PROGRESS OF THE PROJECT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS, AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
25. UPON COMPLETION OF THIS JOB, CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY THESE PLANS.
26. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. PLUMBING CONTRACTOR SHALL WIRE AND START ALL ELECTRICAL PLUMBING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONDUIT, BREAKERS, AND OTHER APPROPRIATE ELECTRICAL EQUIPMENT.
27. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
28. ALL PIPE PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SHRINK, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
29. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
30. CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCTS AND MATERIALS FOR A COMPLETE PLUMBING SYSTEM.
31. EQUIPMENT AND PIPING LOCATIONS AND ROUTING SHOWN ARE DIAGRAMMATIC AND INTENDED TO SHOW THE INTENT OF THE DESIGN. COORDINATE FINAL LOCATIONS AND PIPE ROUTING WITH ARCHITECTURAL PLANS AND FIELD CONDITIONS.
32. TEMPER ALL HAND WASHING SINKS TO A MAXIMUM OF 110 DEG. F. USING ASSE 1070 TEMPERATURE LIMITING DEVICE, ALL OTHER LOCATIONS TO A MAXIMUM OF 120 DEG. F UNLESS HIGHER TEMPERATURES ARE REQ'D FOR PROPER OPERATION.
33. ALL FIXTURES USING PRESSURIZED WATER SUPPLIES SHALL BE INSTALLED WITH SHUT OFF VALVES FOR ISOLATION AND SERVICE.
34. CONTRACTOR SHALL FIELD COORDINATE REQUIRED DRAIN PIPE INVERTS WITH SITE CONTRACTOR BEFORE ORDERING PIPE.
35. CONTRACTOR SHALL HAVE A THOROUGH COORDINATION AND CONSTRUCTABILITY MEETING WITH ALL JOB TRADES BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT, AND ENGINEER SHALL BE NOTIFIED BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT OF CONFLICTS, DISCREPANCIES, OR OTHER ISSUES THAT MAY INCREASE PROJECT COST SO THAT ISSUES MAY BE RESOLVED BEFORE PRICING. THESE PLANS WERE DEVELOPED BASED ON THE ARCHITECTURAL PLANS AVAILABLE AT THE TIME OF DESIGN, AND ARE DIAGRAMMATIC IN NATURE.
36. ALL PIPING ACCESSORIES INSTALLED UNDERGROUND INCLUDING, BUT NOT LIMITED TO SHUT OFF VALVES, BACKFLOW DEVICES, PRESSURE REDUCING VALVES, ETC. SHALL BE INSTALLED IN A BOX OR VAULT FOR SERVICEABILITY AND PROTECTION. THESE DEVICES SHALL NOT BE DIRECT BURIED BELOW GRADE.
37. MAX. "DEAD LEG" LENGTH OF ANY PIPING SHALL BE 12 INCHES.

PROJECT PLUMBING MATERIAL SCHEDULE

PROJECT PLUMBING MATERIAL SCHEDULE									
SOIL, WASTE, VENT & STORM PIPING	WATER PIPING			INSULATION DATA				HOT WATER PIPING VALVES AT LAVATORIES & SINKS	REMARKS
	BELOW FINISHED FLOOR	BELOW GRADE-OUTSIDE	ABOVE FINISHED FLOOR	FITTINGS	JACKET	THICKNESS	LOCATION		
SOLID SCHEDULE 40 PVC WITH SOLVENT WELD PVC FITTINGS EQUAL TO CHARLOTTE PIPE & FOUNDRY; CORE-EXTRUDED, WELL-CASING OR THIN WALL TYPE MATERIALS ARE NOT APPROVED & WILL BE REMOVED AT CONTRACTORS COST	COPPER TUBING-TYPE "K" SOFT ANNEALED TEMPER NO JOINTS BELOW FLOOR	SCHEDULE 80 CPVC WITH SOLVENT WELD CPVC FITTINGS, IF APPROVED BY LOCAL CODES	COPPER TUBING-TYPE "L" HARD DRAWN TEMPER; WROUGHT COPPER FITTINGS; SOLDER JOINTS MAY USE INSIDE DIAMETER SIZED CPVC OR UPONOR PEX MATERIAL AS INDICATED IN SPECS	ZESTON	UNIVERSAL	1-1/2" FIBERGLASS 3/4" ARMIACEL AP-WHITE ELASTOMERIC CLOSED CELL FOAM	ALL HOT WATER & RECIRCULATING PIPE SYSTEMS LOCATED IN CONDITIONED & NON-CONDITIONED AREAS & ALL COLD WATER PIPING-FITTINGS FOR SYSTEMS IN NON-CONDITIONED AREAS	POWERS MODEL LFLM486, DEVICE TO BE INSTALLED AT PUBLIC RESTROOMS & BREAK ROOM	VERIFY LOCAL UTILITIES PRIOR TO INSTALLATION; SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION & INVERT ELEVATION REQ'TS

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	PIPING CONNECTION SIZES				SPECIFICATION
		S.S.	V.	C.W.	H.W.	
WC-1	TANK TYPE WATER CLOSET, ADA, REAR DISCHARGE	3"	3"	1/2"		<ul style="list-style-type: none">HANDICAP WATER CLOSET SHALL BE FLOOR MOUNTED, TANK TYPE, REAR DISCHARGE. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION.FIXTURE: KOHLER K-3554-T-0SEAT: KOHLER K-4670
WC-2	TANK TYPE WATER CLOSET, COMFORT HEIGHT, REAR DISCHARGE	3"	3"	1/2"		<ul style="list-style-type: none">NON-ADA WATER CLOSET SHALL BE FLOOR MOUNTED, TANK TYPE, REAR DISCHARGE. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION.FIXTURE: KOHLER K-3554-T-0SEAT: KOHLER K-4670
LV-1	WALL MOUNT LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	<ul style="list-style-type: none">KOHLER K-2035, ADA COMPLIANT, WHITE VITREOUS CHINA WALL MOUNT SINK, REAR CENTER DRAIN WITH OVERFLOW, 2 HOLE DRILLING ON 4" CENTERS, 21-1/4" L-R X 18-1/8" F-B X 7-1/4" DEEP, INCLUDE WALL CARRIER.KOHLER 8998 P-TRAPDELTA 501 FAUCET, POLISHED CHROME.MCGUIRE 151 BRASS STRAINER.MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIESWATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VAVLE
LV-2	WALL MOUNT LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	<ul style="list-style-type: none">KOHLER K-2035, STANDARD HEIGHT, WHITE VITREOUS CHINA WALL MOUNT SINK, REAR CENTER DRAIN WITH OVERFLOW, 2 HOLE DRILLING ON 4" CENTERS, 21-1/4" L-R X 18-1/8" F-B X 7-1/4" DEEP, INCLUDE WALL CARRIER.KOHLER 8998 P-TRAPDELTA 501 FAUCET, POLISHED CHROME.MCGUIRE 151 BRASS STRAINER.MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIESWATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VAVLE
ICE	ICE MAKER WALL BOX			1/2"		<ul style="list-style-type: none">OATEY METAL ICE MAKER WALL BOXMETAL QUARTER TURN BALL HAMMER VALVE
WHY	WALL HYDRANT			1/2"		<ul style="list-style-type: none">NON-FREEZE TYPEWOODFORD, MODEL B67PROVIDE KEYED BOX
SK-2	DOUBLE BASIN KITCHEN SINK	2"	2"	1/2"	1/2"	<ul style="list-style-type: none">JUST DLN-ADA-1933-A-GR, 18 GA STAINLESS STEEL, DROP-IN, 6" DEPTHDELTA 440 FAUCET w/ 1.5 GPM FLOW RATE.WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VAVLE
EDF	DRINKING FOUNTAIN	2"	2"	1/2"		<ul style="list-style-type: none">DUAL HEIGHT, TWO STATION, OASIS PG8EBFSL ELECTRIC DRINKING FOUNTAINBOTTLE FILLER ON LOW SIDEPROVIDE ALL REQ'D HARDWARE FOR A COMPLETE INSTALLATIONMCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES
JC-1	JANITOR'S MOP SINK	3"	2"	1/2"	1/2"	<ul style="list-style-type: none">SERVICE/JANITOR'S SINK SHALL BE BOTTOM-DRAINING, FLOOR-MOUNTED, 12" DEEP, CORNER-TYPE, FAUCET w/ 1/2" DIAMETER RUBBER HOSE, HOSE CLAMP, INTEGRAL RIM GUARD, STAINLESS STEEL SPLASH PANELS, AND INCLUDE ALL PARTS FOR COMPLETE INSTALLATION.FIXTURE: STERN WILLIAMS CRS-2210FAUCET: STERN WILLIAMS T-10-V8WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VALVE, MOUNTED ABOVE CEILINGPROVIDE ACCESSIBLE INLINE CHECK VALVES ON HOT AND COLD SUPPLY PIPES.
AVV	AIR ADMITTANCE VALVE	3"				<ul style="list-style-type: none">STUDOR-VENT
WCO/GCO/FCO	WALL/GRADE/ FLOOR CLEANOUT					<ul style="list-style-type: none">SEE PLUMBING SPECIFICATIONS 15100 - 2.10
FD/FS	FLOOR DRAIN	3"				<ul style="list-style-type: none">SEE PLUMBING SPECIFICATIONS 15100 - 2.9
HD	HUB DRAIN	3"		1/2"		<ul style="list-style-type: none">CONDENSATE DRAIN HUB DRAINSEE PLUMBING DETAILS

DOMESTIC WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN	STORAGE CAPACITY (GAL.)	TOTAL INPUT (KW)	NO. OF ELEMENTS (KW EA.)	100 F RECOV. (GPH)	STORAGE TEMP. (DEG F)	WATER CONN. (IN.)	SHIP WEIGHT (LBS.)	POWER	NOTES
EW-H-1	A.O. SMITH - ENJB-30	30	4.5	2 / 4.5 (NOTE 2)	21	140	3/4	101	SEE DIV. 16	1,2,3,4,5

NOTES

1. BASIS OF DESIGN IS RHEEM. ALTERNATE MANUFACTURERS: A.O.SMITH, LOCHINVAR
2. ELEMENTS ARE WIRED FOR NON-SIMULTANEOUS OPERATION. MAX USAGE IS 6 KW
3. ELECTRIC WATER HEATER DATA IS BASED ON 208V MODEL.
4. EXPANSION TANK SHALL BE VERTICAL FLOOR MOUNT TYPE, ASME SECTION VIII, DIV. I CONSTRUCTION, DESIGNED FOR 150 PSI MAX WORKING PRESSURE AND 200 F MAX WORKING TEMPERATURE. FDA APPROVED POLYPROPYLENE LINER, BUTYL DIAPHRAGM, STEEL SHELL, STAINLESS STEEL SYSTEM CONNECTION. 55 PSI FACTORY PRE-CHARGE.
5. PROVIDE ALL APPURTENANCES FOR A FULLY FUNCTIONING, CODE COMPLIANT WATER HEATING SYSTEM BASED ON IPC, PLANS, NOTES, AND DETAILS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREVIATION
	ABOVE FINISHED CEILING	AFC
	ABOVE FINISHED FLOOR	AFF
	BELOW COUNTER	B/C
	BELOW FINISHED FLOOR	BFF
	BELOW GRADE	B/G
— — — — —	DOMESTIC COLD WATER PIPING	CW
— — — — —	DOMESTIC HOT WATER PIPING	HW
-----	VENT PIPE	V
— — — — —	SANITARY SOIL	SS
— — — — —	VENT THROUGH ROOF OR WALL	VTR OR VTW
— — — — —	FLOOR CLEANOUT	FCO
— — — — —	FLOOR DRAIN	FD
— — — — —	FLOOR SINK (INDIRECT DRAIN)	FS
— — — — —	WALL CLEANOUT	WCO
— — — — —	CLEANOUT TO GRADE	COTG
— — — — —	P-TRAP	
— — — — —	PRESSURE REDUCING VALVE	PRV
— — — — —	BACKFLOW PREVENTER	BP
— — — — —	BALL VALVE	
— — — — —	UNION	
— — — — —	PRESSURE REDUCING VALVE	
— — — — —	BLIND FLANGE/CAP	
— — — — —	PIPING CONNECTION ON TOP	
— — — — —	PIPING CONNECTION ON BOTTOM	
— — — — —	ELBOW TURNED DOWN	
— — — — —	ELBOW TURNED UP	
— — — — —	THERMOMETER	
— — — — —	CONNECT TO EXISTING	CTE

PIPING SYSTEM PRESSURE TEST TABLE

SYSTEM	MEDIA	PRESS. (")	PERMISSIBLE PRESS. DROP
BELOW GROUND WATER	WATER	200 PSIG	1 PSIG IN 2 HRS @ 73.4°F
ABOVE GROUND WATER	WATER	200 PSIG	1 PSIG IN 2 HRS
STEAM AND CONDENSATE	WATER	125 PSIG	1 PSIG IN 2 HRS
LAB VACUUM	AIR	75 PSIG	2 PSIG IN 2 HRS
COMPRESSED AIR	AIR	150 PSIG	2 PSIG IN 2 HRS
NATURAL GAS	AIR	100 PSIG	0 PSIG IN 2 HRS
STORM, WASTE AND VENT	WATER	10 FEET	0 LEAKAGE IN 10 MINUTES**

- (*) OR 1-1/2 TIMES OPERATING PRESSURE, WHICHEVER IS GREATER.
- (**) SMOKE TEST FOR WASTE & VENT INSIDE BUILDING PRIOR TO WALL COVER-FINISH.

SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2" OR LESS	1/4"
3" TO 6"	1/8"
8" OR LARGER	1/16"

SOURCE: 2012 IPC & ASPE DESIGN MANUAL

DFU for FIXTURE DRAINS-TRAPS

FIXTURE DRAIN OR TRAP SIZE (INCHES)	DRAINAGE FIXTURE UNIT VALUE (DFU)
1-1/4"	1
1-1/2"	2
2"	3
2-1/2"	4
3"	5
4"	6

SOURCE: 2012 IPC & ASPE DESIGN MANUAL

DISTANCE of FIXTURE TRAP from VENT

SIZE OF TRAP (INCHES)	SLOPE (INCH PER FOOT)	DISTANCE FROM TRAP (FEET)
1-1/4"	1/4"	5
1-1/2"	1/4"	6
2"	1/4"	8
3"	1/8"	12
4"	1/8"	16

SOURCE: 20012 IPC & ASPE DESIGN MANUAL

WATER USAGE RATES

Fixture Type	Federal EPAAct of 2005 Code Required Flow Rate	Selected Fixture Flow Rate
Public Water Closet	1.6 gallons per flush	1.28 gallons per flush
Public Urinals	1.0 gallons per flush	0.5 gallons per flush
Public Lavatory-Sink	2.2 gallons per minute	0.25 gallons per minute
Janitor Mop or Service Sink	2.5 gallons per minute	1.00 gallons per minute
Children Age 2-3 Water Closet	1.6 gallons per flush	1.28 gallons per flush
Shower Heads	2.5 gallons per minute	1.0 gallons per minute
Clothes Washer	9.5 gallons/cycle/cubic feet	8.0 gallons/cycle/cubic feet
Ice Machine	less 300 lbs 24 hours at 25 gallons per 100 lbs	less 300 lbs 24 hours at 25 gallons per 100 lbs
Pre-rinse	less than 1.6 gallons per minute	less than 1.6 gallons per minute
Drinking Fountain	8 gallons per hour at 90°F	8 gallons per hour at 90°F
Metered Faucet	0.25 gallons per minute	0.25 gallons per minute

NOTES:

1. VALUES & PRODUCTS SHOWN MAY NOT BE USED ON PROJECT; VERIFY EXACT AMOUNT BASED ON PROJECT PLUMBING FIXTURE SCHEDULE

PROJECT NUMBER
23-001

DATE
06/30/23

REVISIONS

NO.	DATE
0000	00/00/00

FACILITY CODE

000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:

PROBATION OFFICE

400 EAST MAIN STREET, CANTON GA 30114

CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX

SHEET NAME

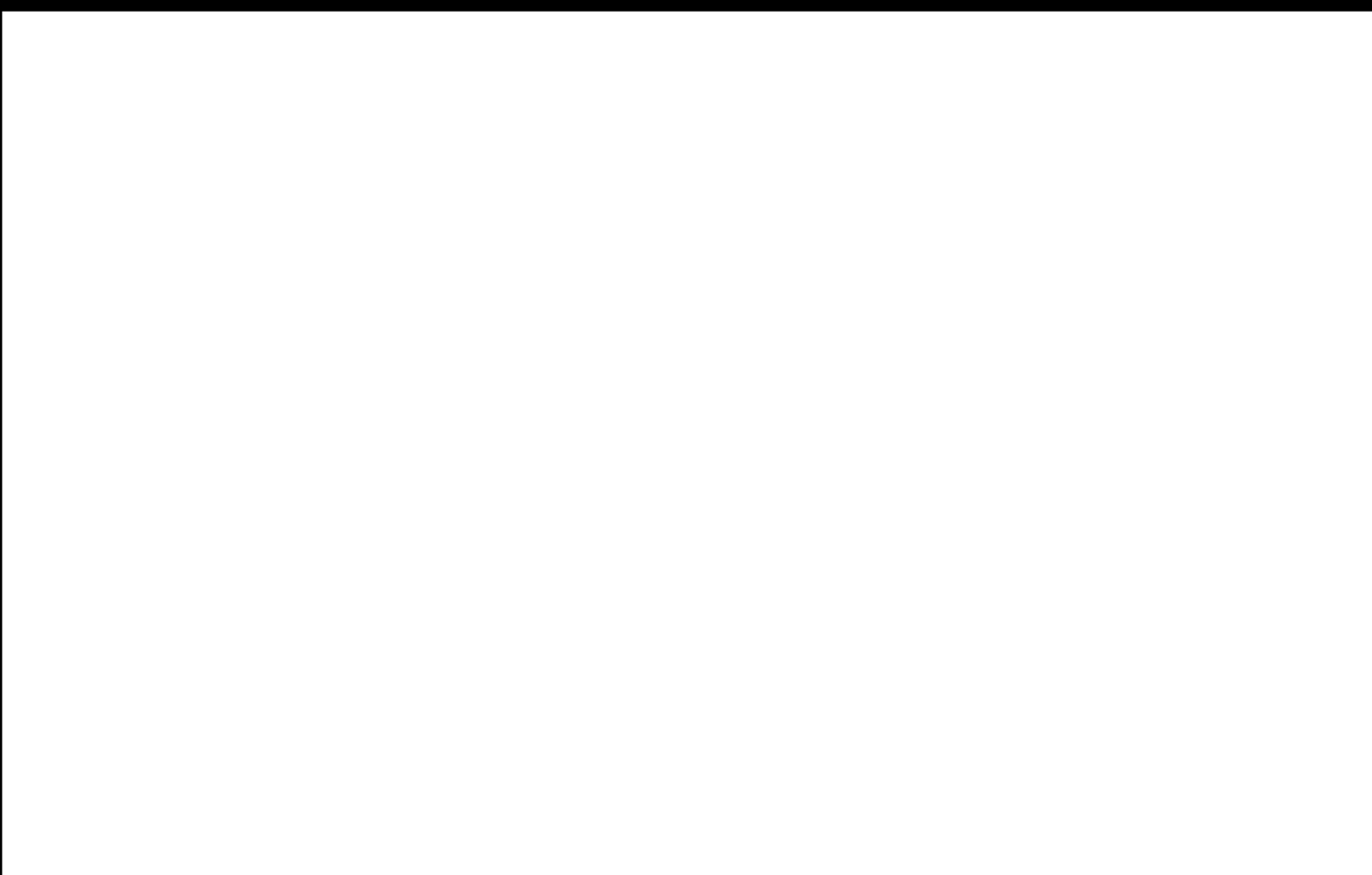
PLUMBING
SCHEDULES,
NOTES, & LEGEND

SHEET INDEX

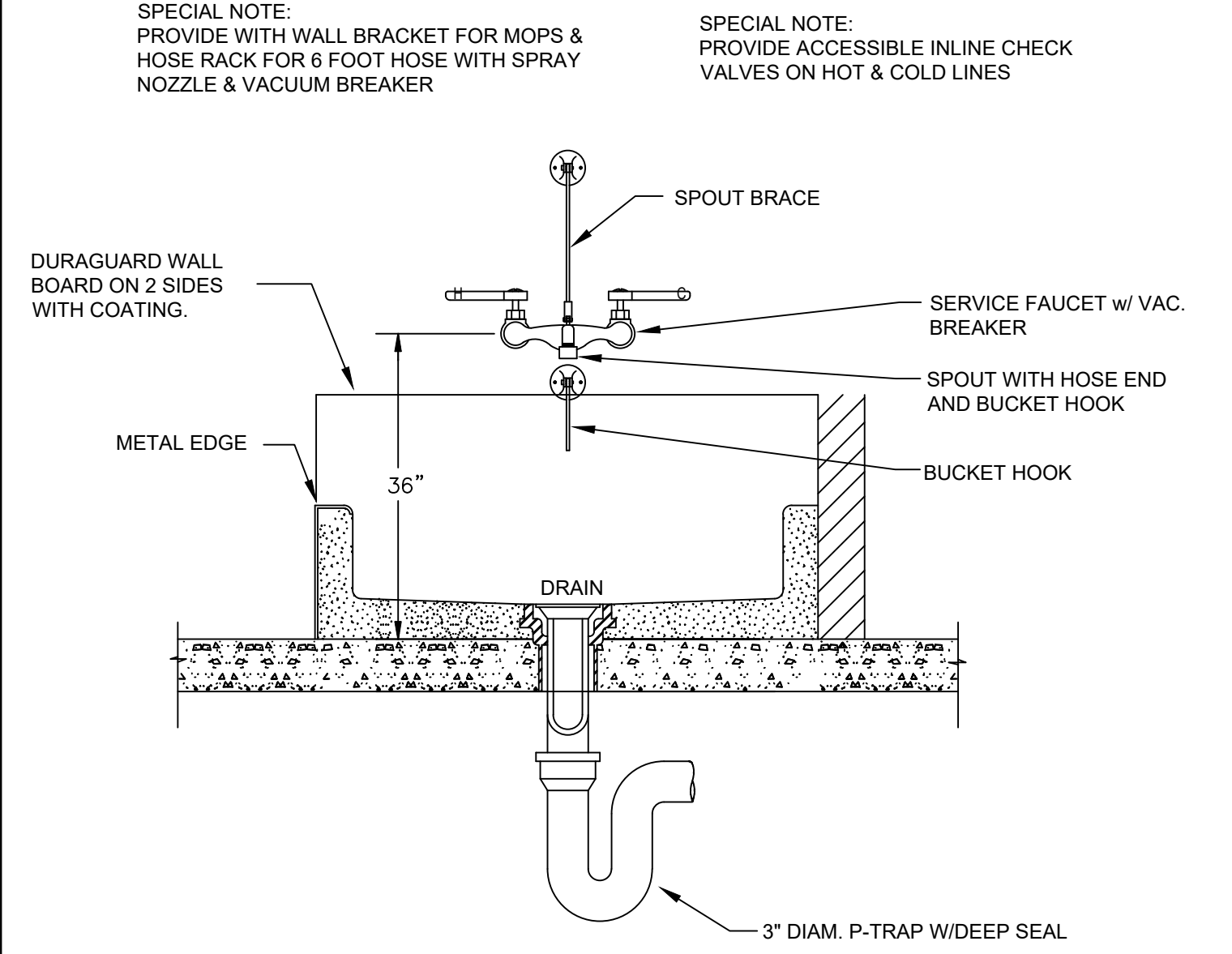
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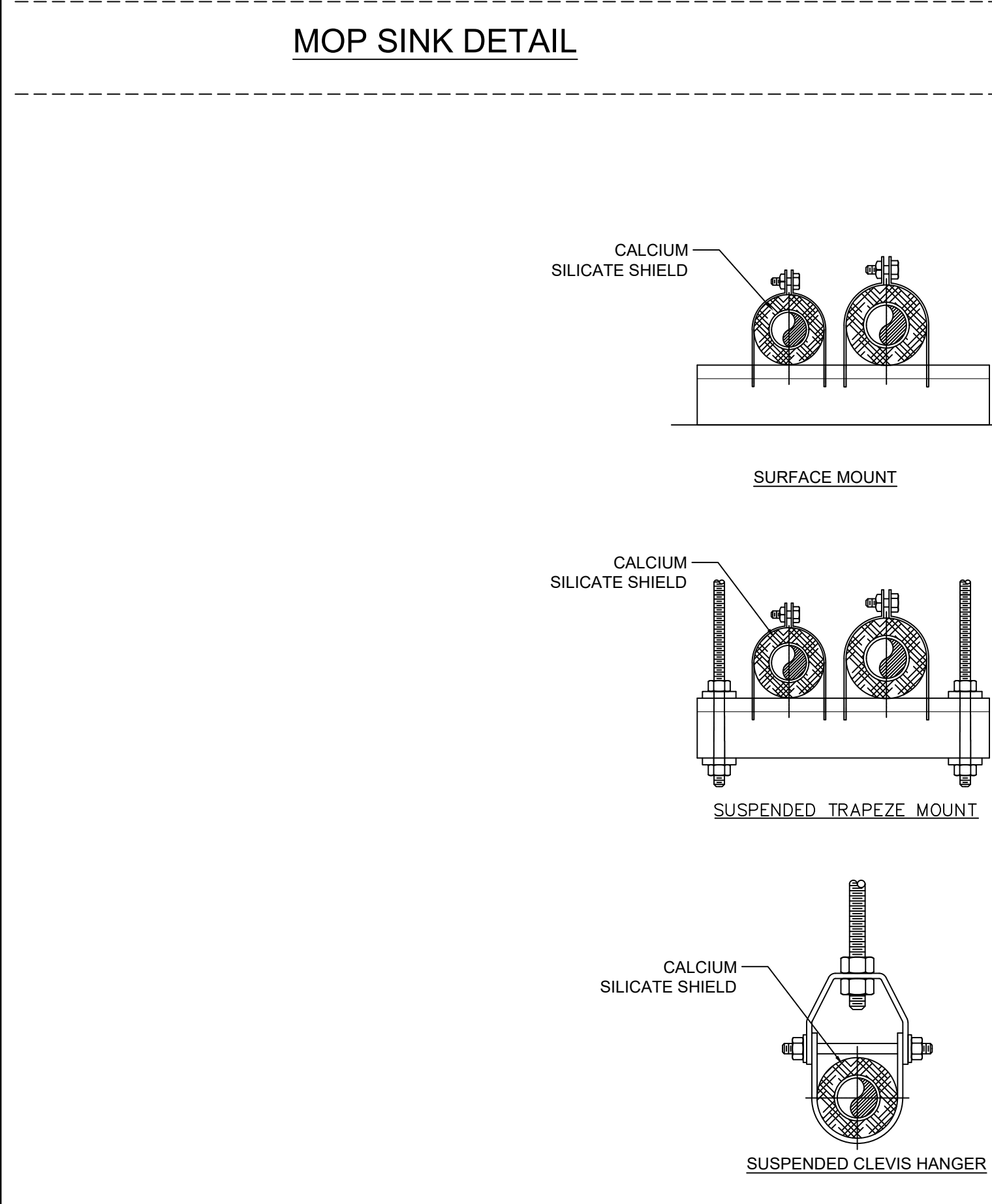
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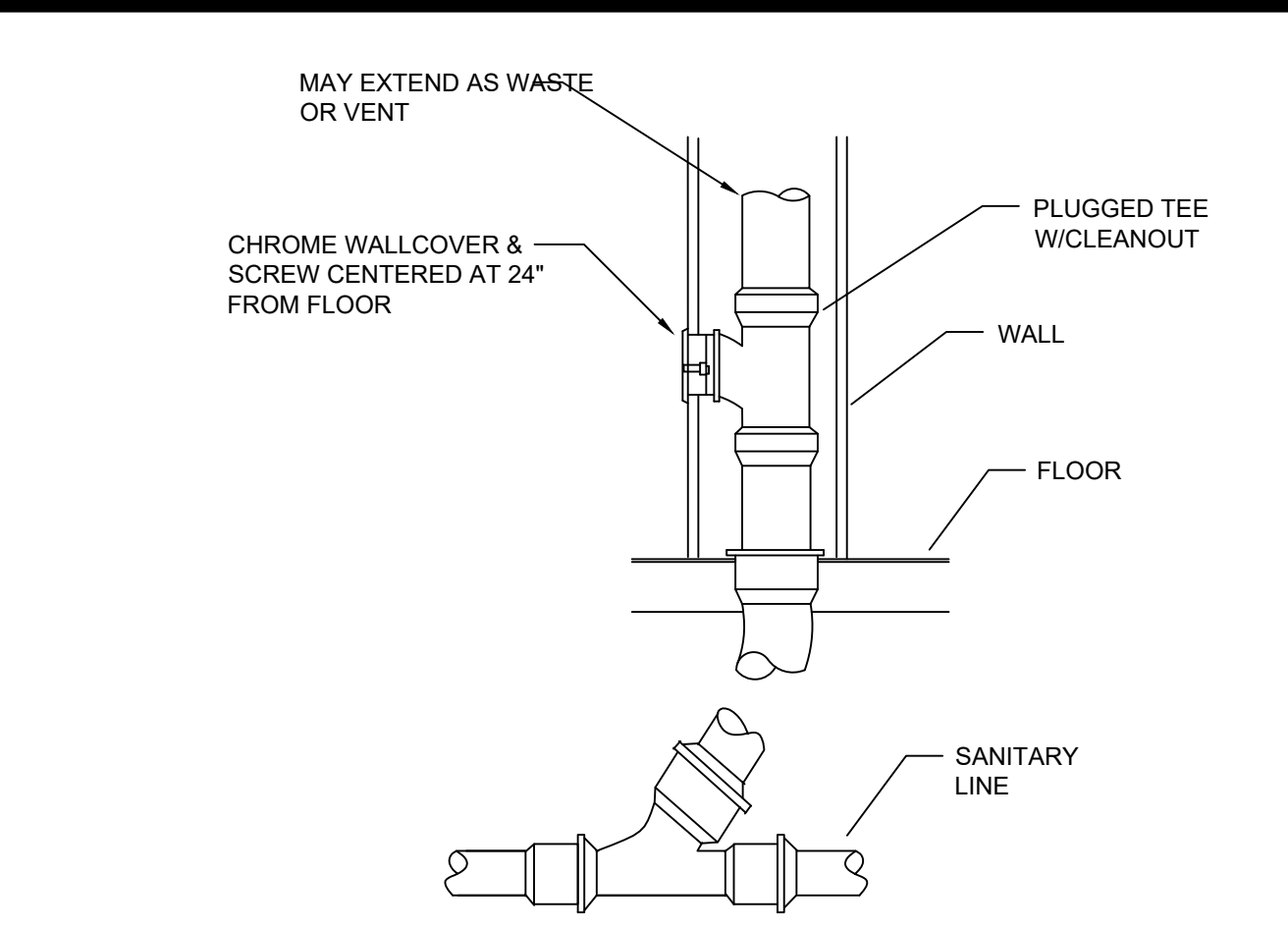
MOP SINK DETAIL



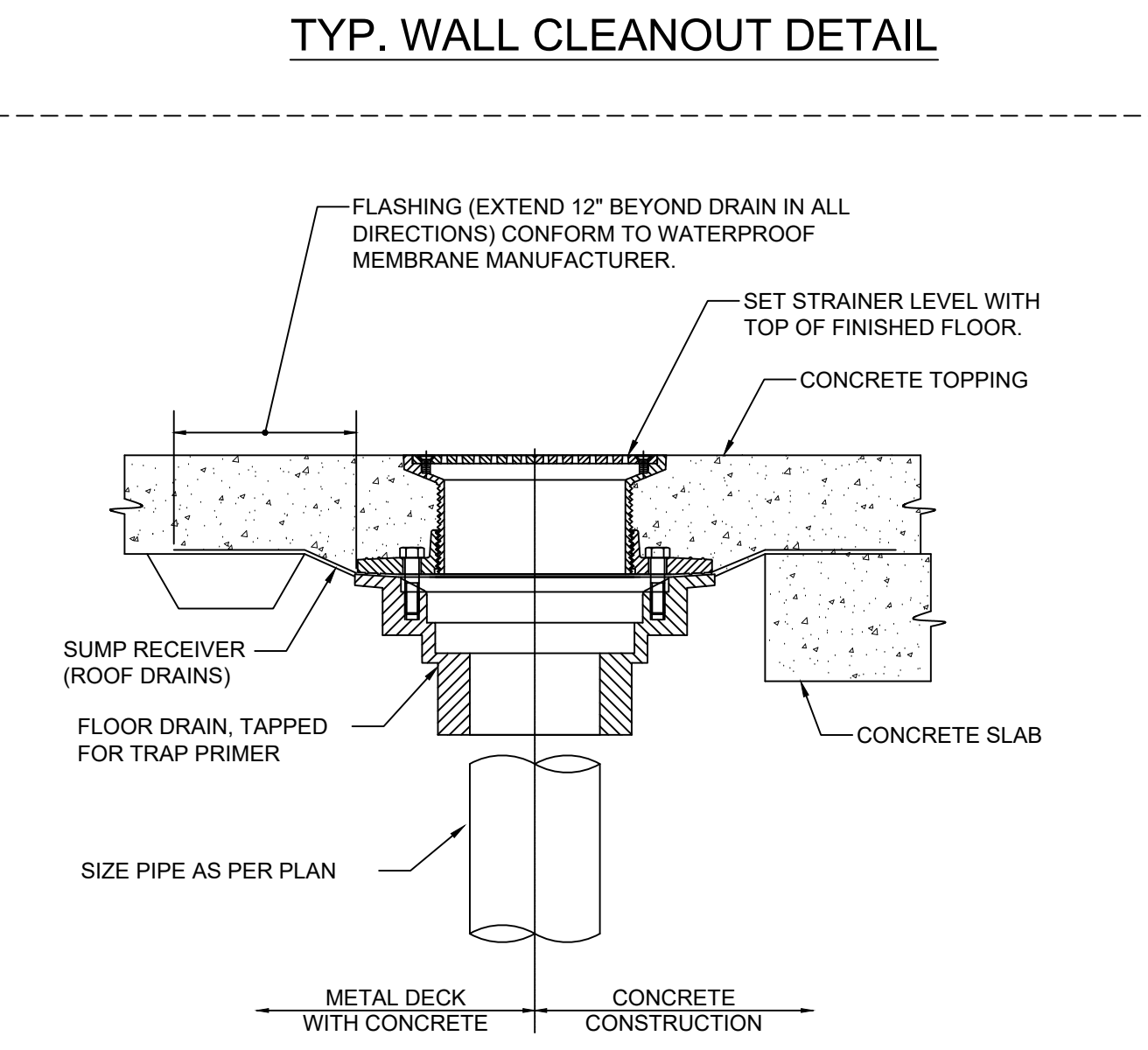
TYP. WALL CLEANOUT DETAIL



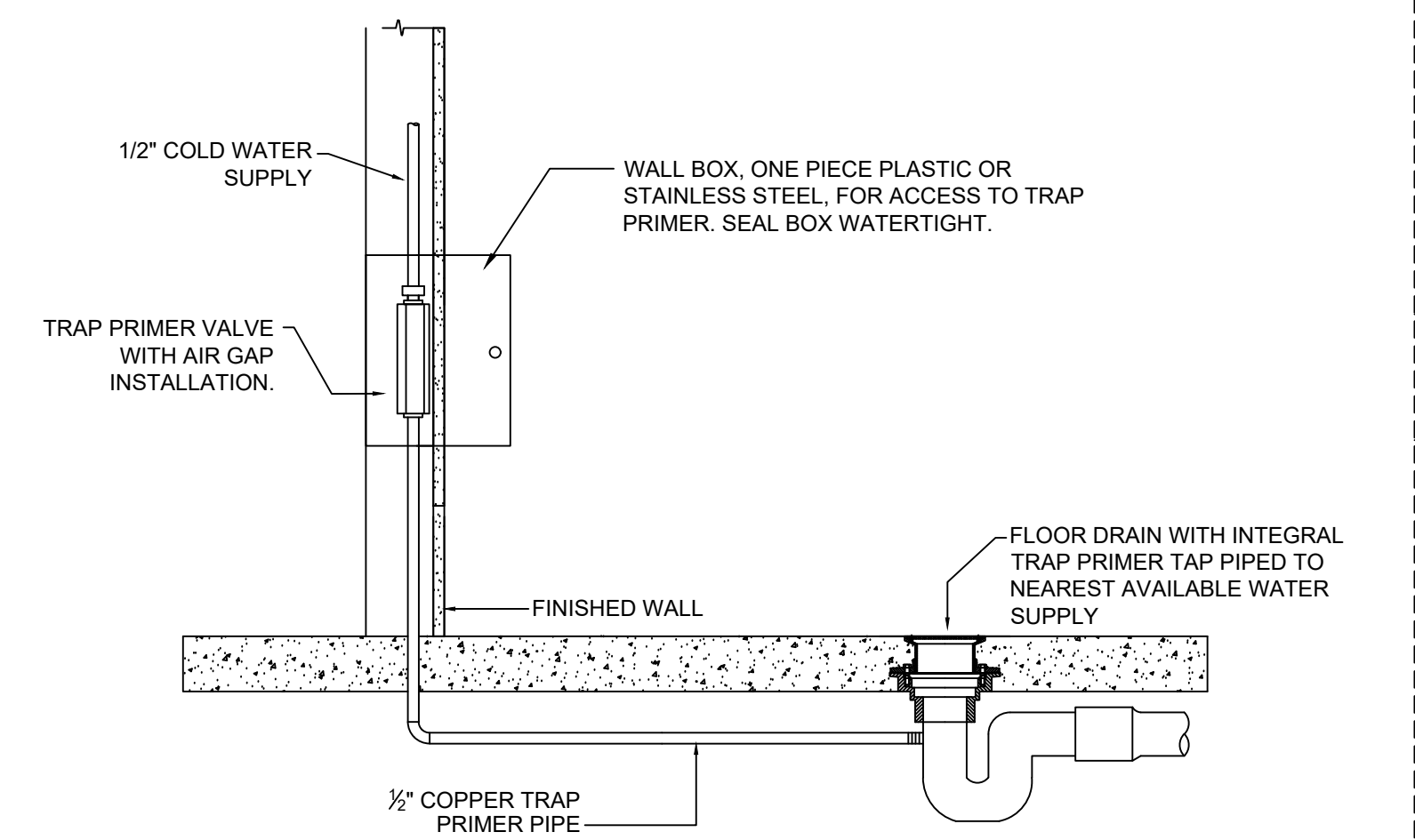
TYP. PIPE HANGER DETAILS



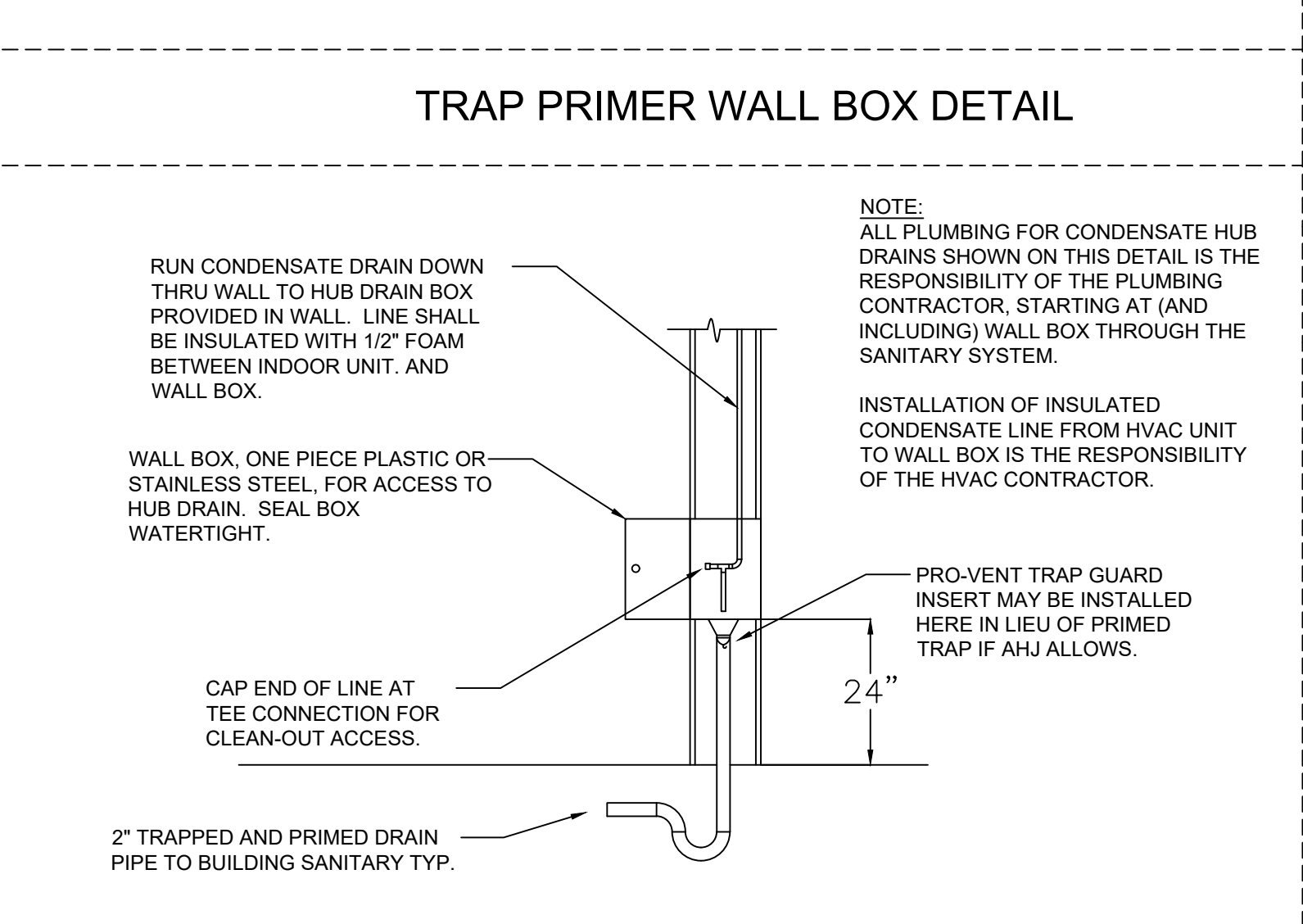
TYP. FLOOR DRAIN DETAIL



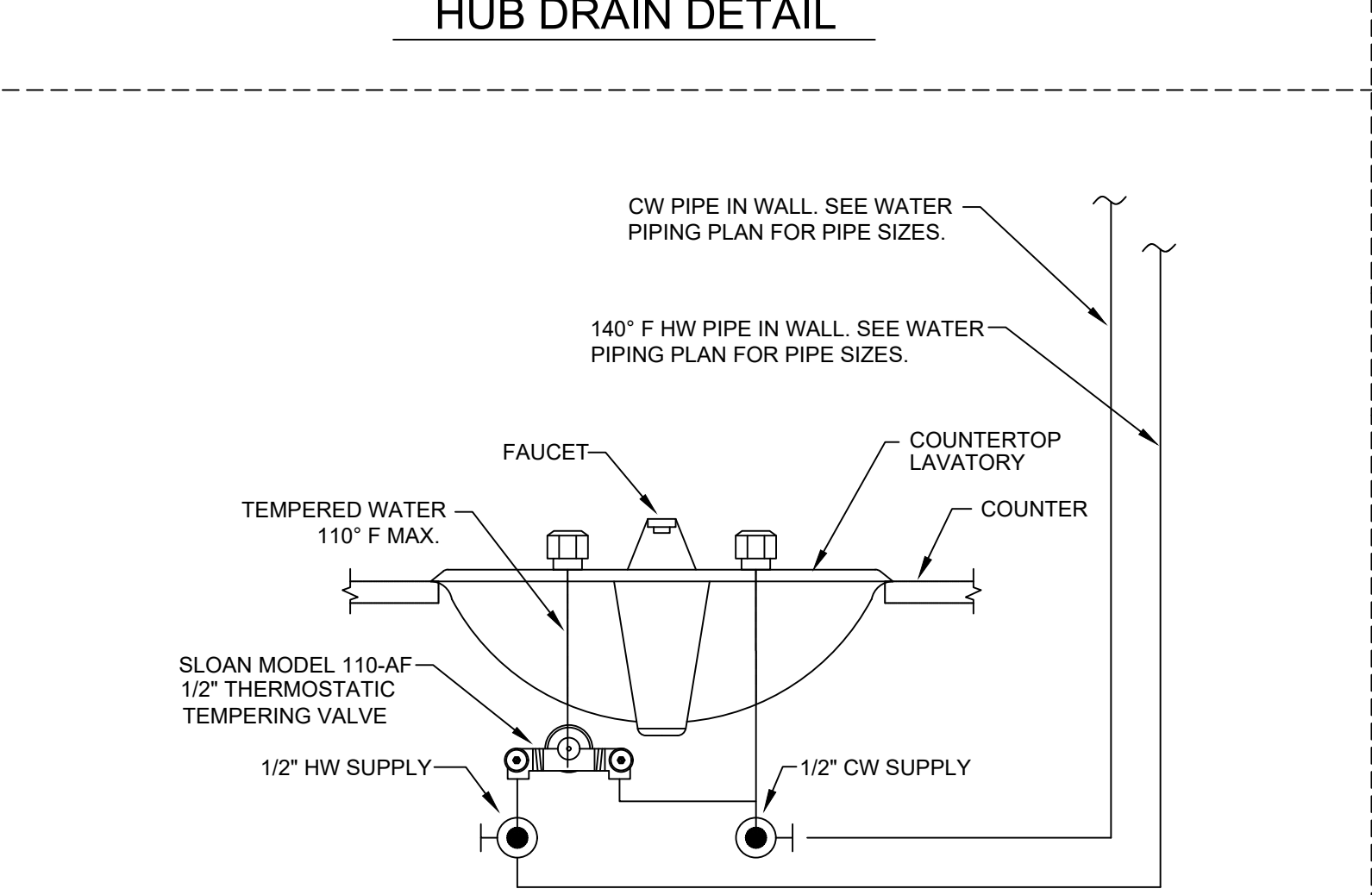
TYP. ICE MACHINE SUPPLY WALL BOX DETAIL



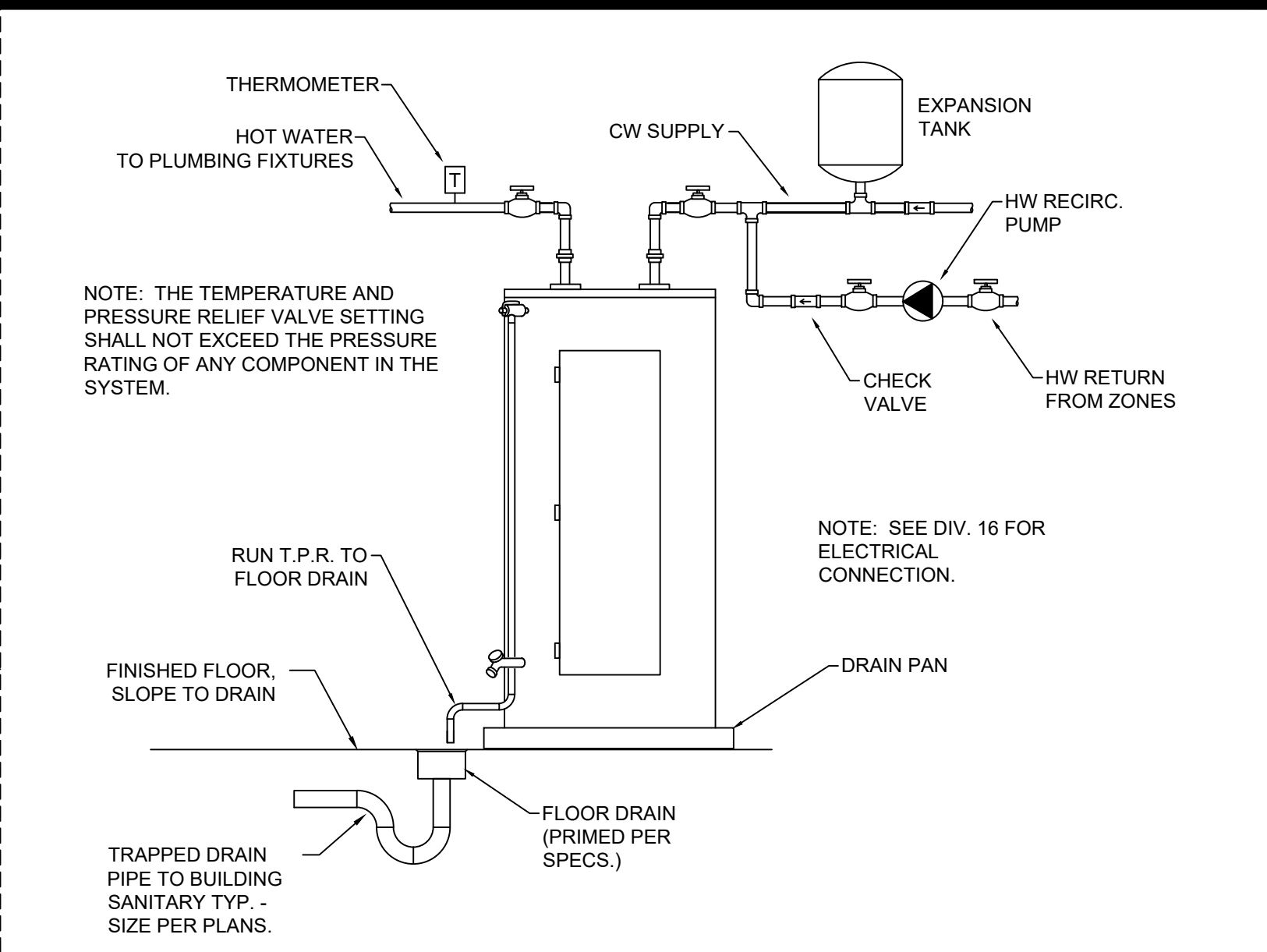
TRAP PRIMER WALL BOX DETAIL



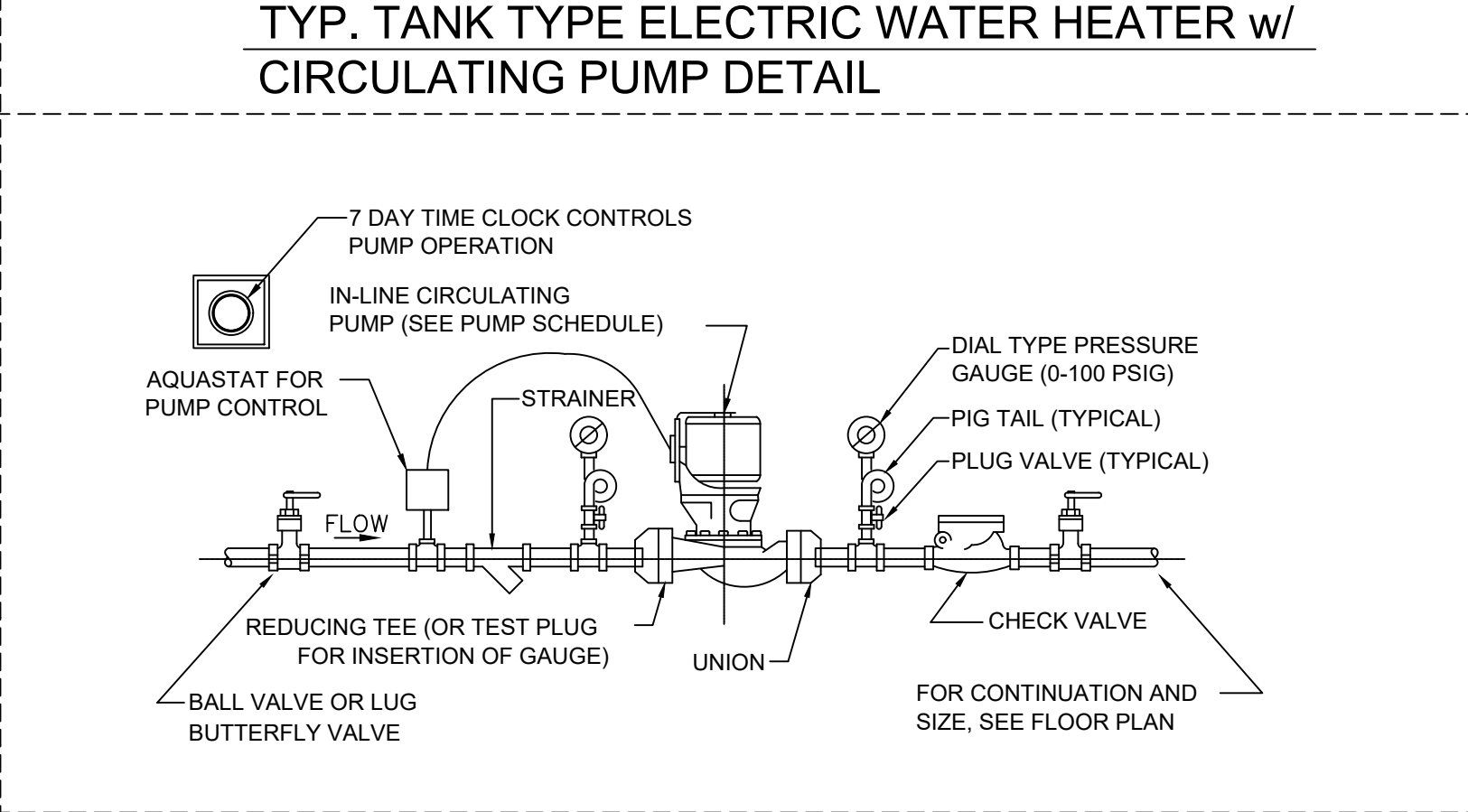
HUB DRAIN DETAIL



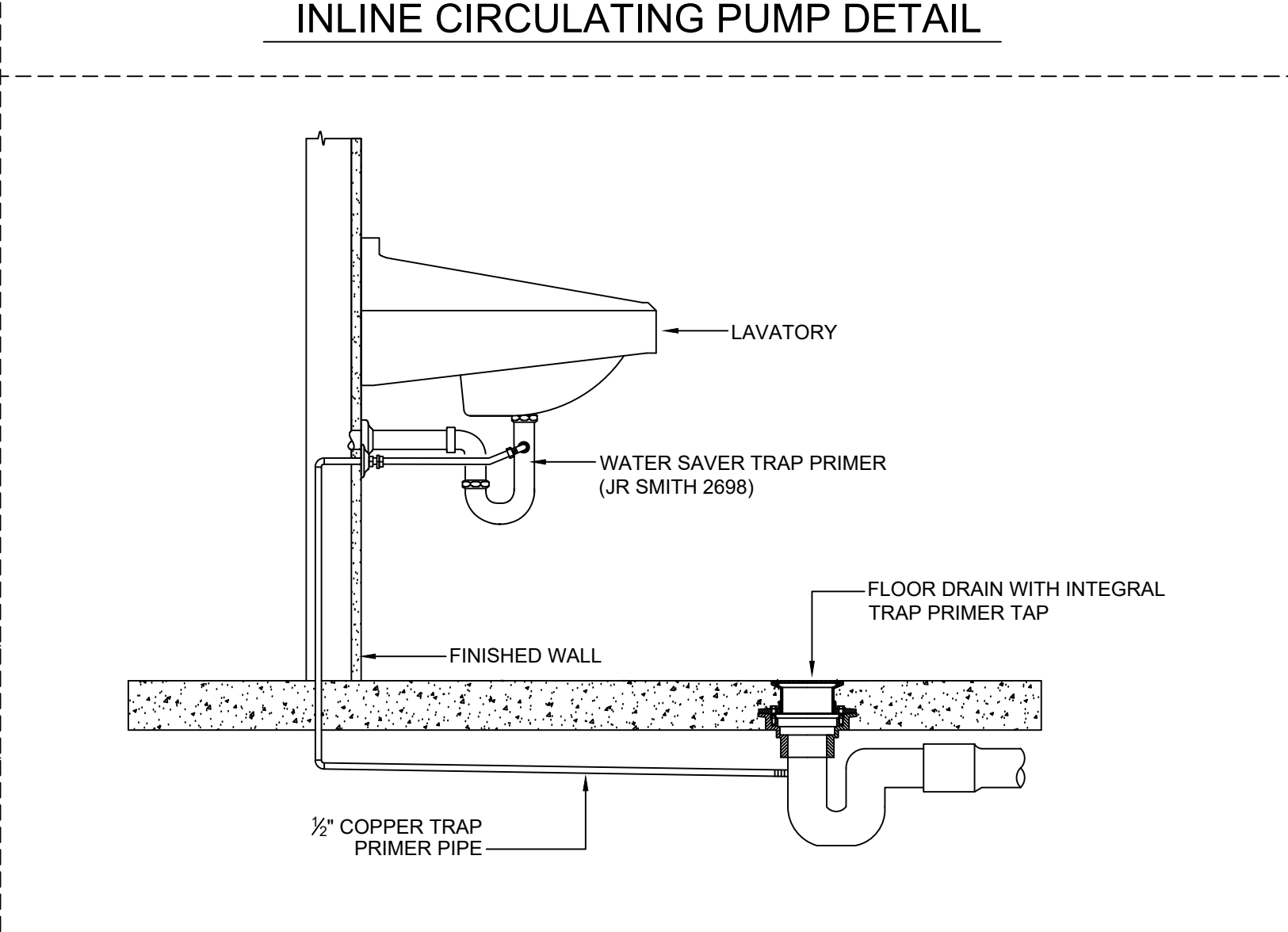
TYP. MIXING VALVE @ FIXTURE DETAIL



TYP. TANK TYPE ELECTRIC WATER HEATER w/ CIRCULATING PUMP DETAIL



INLINE CIRCULATING PUMP DETAIL



TYP. WATER SAVER TRAP PRIMER DETAILS

PROJECT NUMBER
23-001

DATE
06/30/23

REVISIONS

NO. DATE

0000 00/00/00

FACILITY CODE
000-0000

KRH
INCORPORATED
ARCHITECTS

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INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
PROBATION OFFICE
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CHEROKEE COUNTY BOARD OF COMMISSIONERS

GEORGIA
REGISTERED
J. Kyle Cox
20 June 2023
ENGINEER

SHEET INDEX

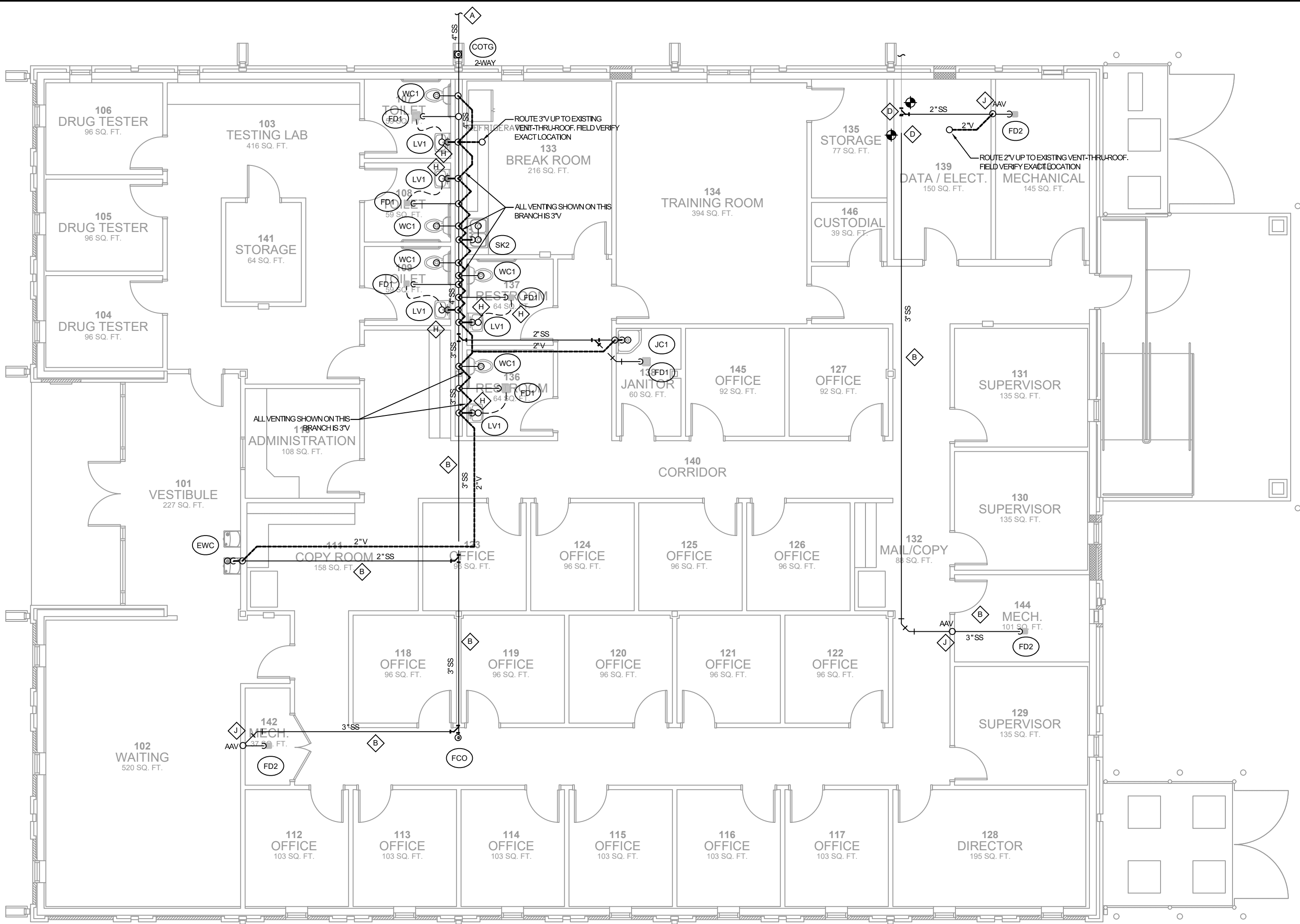
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PLUMBING
DETAILS

SHEET INDEX

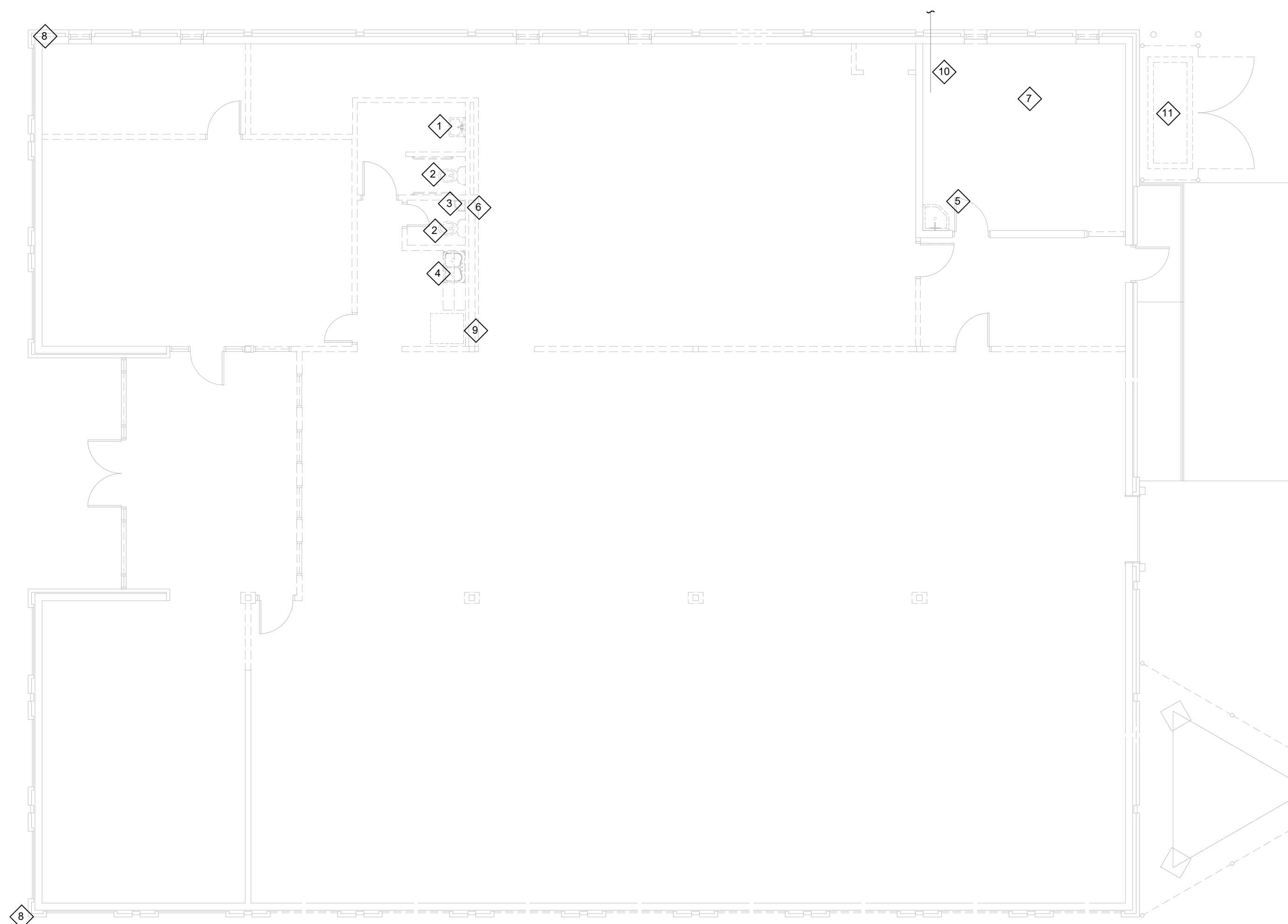
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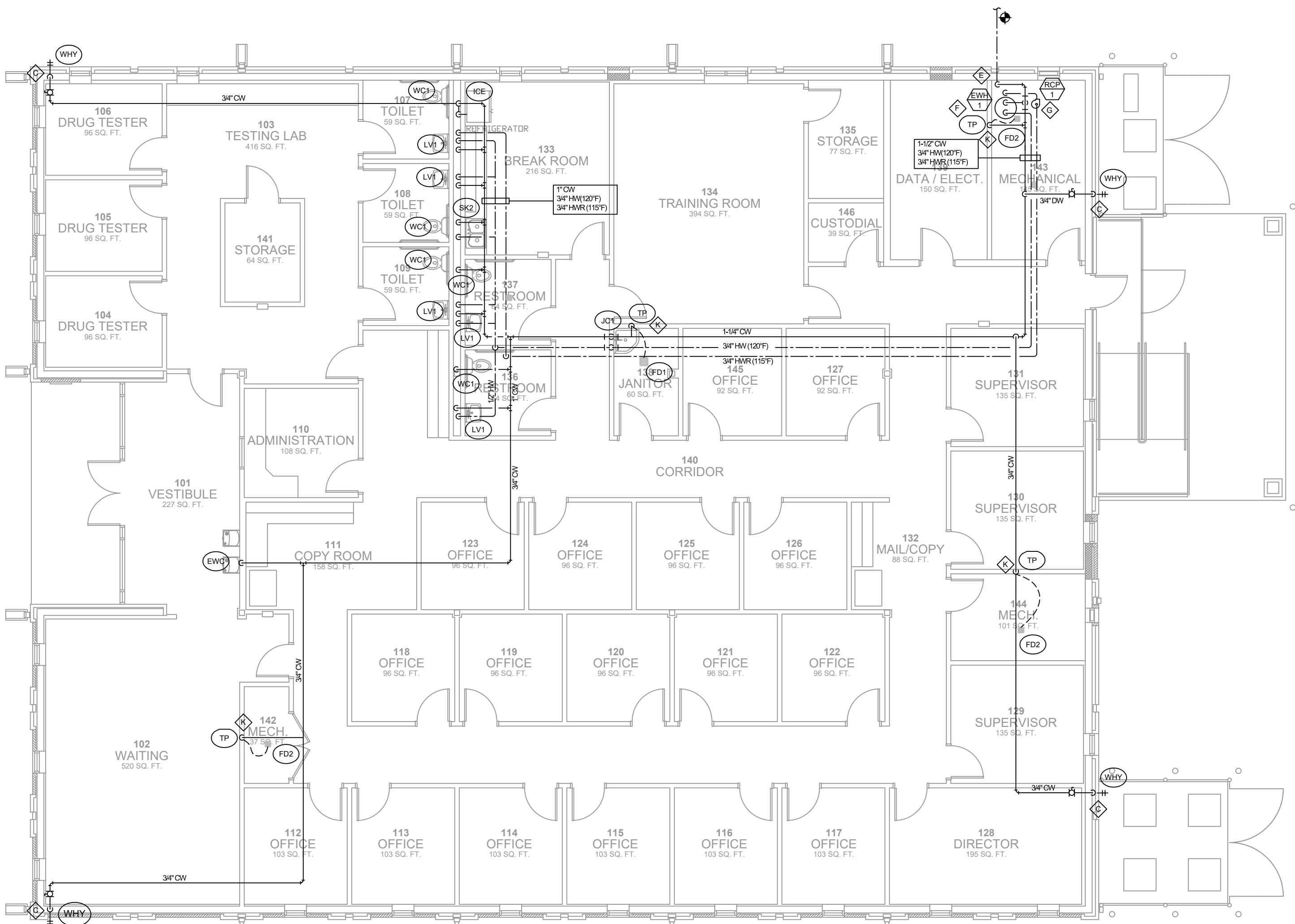
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 **MAIN LEVEL SANITARY WASTE & VENT PIPING PLAN**
SCALE: 3/16" = 1'-0"



 **PLUMBING DEMOLITION PLAN**
SCALE: 1/16" = 1'-0"



 **MAIN LEVEL DOMESTIC WATER PIPING PLAN**
SCALE: 3/16" = 1'-0"

CONSTRUCTION KEY NOTES

- RECONNECT NEW UNDERGROUND SANITARY SEWER LINE TO EXISTING SYSTEM IN THIS AREA; VERIFY INVERT ELEVATION, MATERIAL TYPE, ETC. CONTRACTOR TO VISIT SITE PRIOR TO INSTALLATION-BID EFFORT.
- INSTALL NEW SANITARY SEWER BELOW EXISTING FLOOR BASED ON DETAIL WITH ALL SAW-CUTTING, PATCHING, ETC.
- INSTALL NEW 3/4" CW LINE INSIDE EXISTING WALL AS INDICATED WITH SECURED ANCHOR.
- CONNECT TO EXISTING LINE IN THIS AREA; VERIFY LINE LOCATION, INVERT ELEVATION, MATERIAL TYPE, ETC. IF EXISTING LINE IS CAST IRON PRODUCT CONTRACTOR SHALL JET PIPE FOR INSIDE SMOOTH FINISH; COLOR CAMERA LINE PRIOR TO ACTION.
- CONNECT TO EXISTING 1-1/2" DOMESTIC WATER LINE; VERIFY LOCATION, LINE SIZE, ETC PRIOR TO EFFORT.
- INSTALL NEW TANK TYPE WATER HEATER WITH DRAIN PAN, EXPANSION TANK, ETC AS INDICATED IN DETAILS & SCHEDULES.
- NEW HOT WATER RETURN PUMP WITH RELATED CONTROLS, PIPING, VALVES, ETC.
- PROVIDE SPECIAL P-TRAP, BY JR.SMITH w/ WATER-SAVER, WATER-BASED TRAP PRIMER ROUTED TO FLOOR DRAIN. REFER TO DETAIL
- NOT USED
- PROVIDE AIR ADMITTANCE VALVE, BY STUDOR VENT, LOCATED IN ACCESSIBLE WALL BOX.
- PROVIDE WATER-BASED TRAP PRIMER IN WALL BOX. ROUTE 1/2" COPPER TUBE UNDER SLAB TO FLOOR DRAIN PRIMER INLET

GENERAL NOTES (THIS SHEET)

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT; REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL AND FOUNDATIONS DOCUMENTS FOR ALL DIMENSIONS. FIELD VERIFIED SHOP DRAWINGS MUST BE PROVIDED BY SUB CONTRACTOR PRIOR TO WORK EFFORT. DRAWINGS OR APPROVAL OF SUCH DOES NOT RELEASE SUB FROM ACCURACY. WORK QUALITY, WARRANTY OR PERFORMANCE OF INSTALLATION.
- ALL TOILET ROOM DOORS SHALL BE UNDERCUT 3/4" FOR PROPER MAKE-UP AIR TRANSFER.
- ALL REFRIGERANT PIPING SHALL BE HARD PIPE. DO NOT ROUTE CONTINUOUS FLEXIBLE TUBE.

DEMOLITION KEY NOTES

- REMOVE EXISTING WALL OR COUNTER LAVATORY. FIXTURE TO BE DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES & LOCAL REQUIREMENTS; VERIFY PRIOR TO ACTION; DOMESTIC WATER PIPING TO BE REMOVED & CAPPED ABOVE CEILING OR BELOW FINISHED FLOOR.
- CONTRACTOR TO REMOVE EXISTING FLOOR MOUNTED WATER CLOSET WITH DRAIN CAPPED BELOW FLOOR; WATER PIPING SHALL BE CAPPED ABOVE FINISHED CEILING.
- SAME AS NOTE "1" FOR CORNER MOUNTED LAVATORY.
- REMOVE EXISTING TWO COMPARTMENT SINK WITH DRAINS LINE CAPPED INSIDE WALL OR BELOW FINISHED CEILING; WATER LINES TO BE CAPPED ABOVE FINISHED CEILING.
- CONTRACTOR TO REMOVE FLOOR MOUNTED JANITOR SINK WITH DRAINS, WATER HEATER, VENTING, ETC. LINES SHALL BE CAPPED AS REQUIRED INCLUDING ASSOCIATED WATER LINES.
- EXISTING UNDER-FLOOR SANITARY SEWER LINE SERVING BUILDING SHALL BE REMOVED WITH AREA PREP FOR NEW LINE & INSTALLATION; SEE SHEET FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING NATURAL GAS FIRED WATER HEATER w/ ASSOCIATED FLUES, GAS PIPING, WATER PIPING, ETC. CONTRACTOR SHALL PATCH-REPAIR CEILING & ROOF TO MATCH EXISTING SURROUNDINGS; VERIFY COMPONENTS PRIOR TO EFFORT.
- REPLACE EXISTING WALL HYDRANT WITH NEW TYPE PRODUCT TO INCLUDE VACUUM BREAKER & FREEZE PLUG.
- REMOVE EXISTING WATER CONNECTION SERVING REFRIGERATOR w/ VALVE, PIPING, ETC. DEMOLISH PIPING BACK TO MAIN AND CAP.
- EXISTING DOMESTIC WATER LINE TO REMAIN; VERIFY LINE SIZE & LOCATION.
- EXISTING NATURAL GAS FIRED GENERATOR TO BE REMOVED BY OTHERS WITH NATURAL GAS PIPING, VALVES, METER, ETC REMOVED BY PLUMBING CONTRACTOR; COORDINATE EFFORT WITH LOCAL GAS UTILITY; SCOPE TO INCLUDE ALL CUTTING, PATCHING & REPAIRS OF SIDEWALKS, PAVEMENT, EARTH-WORK, ETC TO MATCH EXISTING SURROUNDINGS.
- EXISTING SANITARY SEWER LINE CLEANOUT TO GRADE TO REMAIN.

FOR CONSTRUCTION

PROJECT NUMBER
23-001

DATE
06/30/23

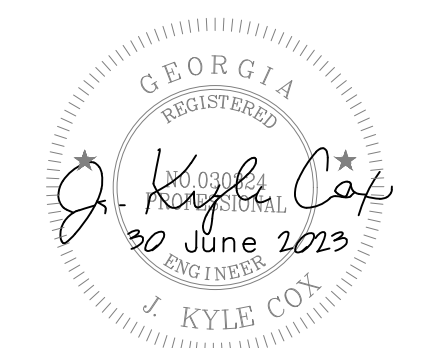
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NO. DATE
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FACILITY CODE
000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
PROBATION OFFICE
400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX
SHEET NAME
PLUMBING PLANS

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ELECTRICAL LEGEND			
	LED TROFFER, TYPE AS NOTED		DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	LED TROFFER, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		WEATHER PROOF DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	LED TROFFER, TYPE AS NOTED		DUPLEX RECEPTACLE ABOVE COUNTER OR AS NOTED, NEMA 5-20R
	LED TROFFER, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		QUAD RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	RECESSED CAN FIXTURE, TYPE AS NOTED		DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	RECESSED CAN FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		SPECIAL PURPOSE RECEPTACLE 18" AFF OR AS NOTED, SEE SCHEDULE
	LED STRIP FIXTURE		DUPLEX RECEPTACLE, MOUNTED FLUSH IN FLOOR PROVIDE BRASS COVER, NEMA 5-20R
	WALL MOUNTED FIXTURE, TYPE AS NOTED		DUPLEX RECEPTACLE, MOUNTED FLUSH IN CEILING NEMA 5-20R
	PENDANT FIXTURE, TYPE AS NOTED		WALL / CEILING MOUNTED JUNCTION BOX
	PENDANT FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		UNFUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING
	TRACK LIGHT FIXTURE, TYPE AS NOTED		FUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING/FUSE SIZE
	EMERGENCY LIGHT		MOTOR
	EXIT/EMERGENCY LIGHT COMBINATION		UTILITY GRADE METER
	CEILING MOUNTED EXIT SIGN		TRANSIENT VOLTAGE SURGE SUPPRESSOR
	WALL MOUNTED EXIT SIGN		TELEPHONE OUTLET, PROVIDE 4" BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	SINGLE POLE SWITCH, 44" AFF		DATA OUTLET, PROVIDE 4" BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	TWO SINGLE POLE SWITCHES GANGED TOGETHER FOR INNER/OUTER CONTROL OF LAMPS, 44" AFF		TELEVISION/CABLE OUTLET
	THREE SINGLE POLE SWITCHES GANGED TOGETHER 44" AFF		TELEPHONE OUTLET, PROVIDE 4" BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	THREE WAY SWITCH, 44" AFF		DATA OUTLET, PROVIDE 4" BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	TWO THREE WAY SWITCHES GANGED TOGETHER FOR INNER/OUTER CONTROL OF LAMPS, 44" AFF		DOOR HOLD-OPEN DEVICE
	FOUR WAY SWITCH, 44" AFF		TRANSFORMER, SEE ONE LINE
	WALL BOX DIMMER 1000W UNLESS NOTED DIFFERENTLY 44" AFF		SPEAKER STROBE 85" CENTER
	WEATHER PROOF SWITCH, 44" AFF		HORN 85" CENTER
	MOTOR RATED SWITCH, 44" AFF OR AS NOTED		PULL STATION
	COMBINATION SWITCH AND OCCUPANCY SENSOR, 44" AFF		FIRE ALARM STROBE, MIN 75 CANDELA CEILING / WALL MOUNT 85" CENTER
	DIGITAL TIMER SWITCH, 44" AFF		DUCT MOUNTED SMOKE DETECTOR
	CEILING MOUNTED OCCUPANCY SENSOR		SMOKE DETECTOR
	WALL MOUNTED OCCUPANCY SENSOR, 44" AFF		HEAT DETECTOR
	TIME CLOCK		TAMPER SWITCH
	LIGHTING CONTACTOR		FLOW SWITCH
	PHOTO CELL		RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	8" CONE SPEAKER IN CEILING EC TO PROVIDE BLACK SPEAKER		RACEWAY EXPOSED
	8" CONE SPEAKER IN WALL EC TO PROVIDE BLACK SPEAKER		RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR
	VOLUME CONTROL		DENOTES CONDUIT TURNING UP IN PLAN VIEW
	PLYWOOD EQUIPMENT BACKBOARD 4'x8' UNLESS NOTED OTHERWISE		DENOTES CONDUIT TURNING DOWN IN PLAN VIEW
	CAMERA		STUB UP
	COAXIAL CABLE OUTLET		SHORT CIRCUIT AVAILABLE CURRENT

(NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS AND ARE USED AS APPLICABLE TO THIS PROJECT)

ABBREVIATIONS			
A, AMPS	AMPERES	FLA	FULL LOAD AMPERES
A/C	AIR CONDITIONER	GND	GROUND
AC	ALTERNATING CURRENT	GALV	GALVANIZED
AF	AMPERE FRAME	GRS	GALVANIZED RIGID STEEL
AFF	ABOVE FINISHED FLOOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFG	ABOVE FINISHED GRADE	GF	GROUND FAULT INTERRUPTER
AIC	AMPERE	HD	HEAT DETECTOR
	INTERRUPTING CURRENT	HP	HORSEPOWER
AL	ALUMINUM	IMC	INTERMEDIATE METAL CONDUIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ISC	INTERRUPTING SHORT CIRCUIT
AWG	AMERICAN WIRE GAUGE	IG	ISOLATED GROUND
BC	BARE COPPER	INST	INSTANTANEOUS
BKBD	BACKBOARD	JB	JUNCTION BOX
C	CONDUIT	KAIC	KILO (THOUSAND) AMPERES
CB	CIRCUIT BREAKER	KCMIL	KILO (THOUSAND) CIRCULAR MILS
CKT	CIRCUIT	KV	KILO (THOUSAND) VOLTS
CU	COPPER	KVA	KILO (THOUSAND) WATTS
D	DISTRIBUTION	LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
DN	DOWN	MCB	MAIN CIRCUIT BREAKER
DWG	DRAWING	MCM	THOUSAND CIRCULAR MILS
EB	ENCASED BURIAL	MCCB	MOLDED CASE CIRCULAR BREAKER
EC	EMPTY CONDUIT	N	NEUTRAL
EEW	ENERGIZED ELECTRICAL WORK	NEC	NATIONAL ELECTRICAL CODE
EGG	EQUIPMENT GROUNDING CONDUCTOR	NESC	NATIONAL ELECTRICAL SAFETY CODE
ELR	END-OF-LINE RESISTOR	NIC	NOT IN CONTRACT
EW	ELECTRIC WATER COOLER	NL	NIGHT LIGHT
EX	EXISTING		
<EX>	EXISTING TO REMAIN		
<EX>	EXISTING		
FA	FIRE ALARM		
FAA	FIRE ALARM ANNUNCIATOR		
FACP	FIRE ALARM CONTROL PANEL		

ELECTRICAL SPECIFICATIONS:	
<p>1. GENERAL: Furnish all labor, equipment, and materials necessary for a complete installation of electrical wiring. The drawings indicate diagrammatically the extent, general character, and the approximate location of the work to be performed. Omissions of details of work, mounting hardware, fittings, J-boxes, outlet boxes, pull boxes, supports, connectors, accessories, and/or adaptors, which are evidently necessary to carry out the intent of the drawings and specifications, shall be provided. Connect all electrical equipment, whether furnished by Electrical Contractor or by others, and whether shown on plans or not. Install and connect all starters furnished by this contractor or others. Furnish, install, and connect disconnects and safety switches for all electrical equipment whether furnished by this contractor or others and where required by NEC. Before installing raceways for motors, appliances, HVAC equipment, and/or other equipment provided by others, verify locations and arrange raceways accordingly. Verify all door swings with architectural plans before roughing in light switches. Where no raceway sizes or wire sizes are shown, install as required by NEC. Verify power and connection requirements for all equipment before installation. Wire as required by equipment manufacturer and in compliance with the NEC. Obtain MOC and MCA information from actual equipment being installed and circuit accordingly. All circuit breakers supplying HVAC equipment shall be HACR type. All work shall comply with applicable laws of the community and with the NEC. Obtain and pay for all permits required. Obtain approval from all agencies and authorities having jurisdiction for all work indicated on plans and in specifications. After completion of the work, submit a certificate of final inspection and approval from the local Electrical Inspector and local Fire Department Authorities, certifying that the installation complies with all regulations governing the same. All materials shall be new and UL listed. Execute all work in a workmanlike manner so as to present a neat and mechanical appearance when completed.</p> <p>2. COORDINATION: Coordinate work so as to conform to the progress of the work of the other trades, and complete the entire installation as soon as the condition of the building permits. Some safety disconnect switches may be provided by the Mechanical Contractor but installed and connected by the Electrical Contractor. This work shall be coordinated by the Electrical Contractor.</p> <p>3. INTERFERENCE: In the event that interferences or conflicts develop, the Architect shall decide which equipment shall be relocated, at no cost to owner, regardless of which equipment was first installed.</p> <p>4. CUTTING AND PATCHING: Provide cutting and patching, under the supervision of the General Contractor, for all electrical work. Coordinate with other trades as work progresses so cutting and patching will not be required or is kept at a minimum.</p> <p>5. SUBMITTALS: Within twenty (20) days after award of contract, submit six (6) copies of manufacturer's drawings to the Architect for review of the following items: Panelboards, disconnect switches, transient voltage surge suppressors, light fixtures, lighting controls, and fire alarm system (complete with plan showing wiring/conduit).</p> <p>6. TESTING: Upon completion of the work, conduct a thorough test in the Engineer's presence, and show the entire system to be in perfect working condition.</p> <p>7. GUARANTEE: Guarantee that all work executed under these specifications and plans will be free from defects of workmanship and materials for a period of one (1) year, from date of final acceptance of this work. Promptly repair, replace, or otherwise make good, upon notification, any defect becoming apparent during this period, at no cost to Owner.</p> <p>8. TEMPORARY SYSTEMS: The Electrical Contractor shall be responsible for furnishing and installing equipment and materials necessary for providing electrical power where needed for the construction of the project in accordance with all OSHA regulations.</p> <p>9. SITE VISIT: Before submitting a bid, visit the site, and verify all existing conditions. Make such adjustments to work as required by the actual conditions encountered.</p> <p>10. SERVICE ENTRANCE: It shall be the responsibility of the Contractor to verify that the location, arrangement, voltage, phase, and connections to the utility service, as well as the required metering equipment, are coordinated with, and in accordance with, the requirements of the local power company. If the requirements are at variance with these Drawings or Specifications, the contract price shall include any additional cost necessary to meet those requirements, without extra cost to the Owner, after the contract is entered into. Notify the Architect of any changes required before proceeding with work. Any charges by the utility company for the electrical service to the facility shall be included in the bid price.</p> <p>11. CONDUIT PENETRATIONS: Where conduits and other electrical equipment raceways pass through fire partitions, fire walls, or floors, provide a U.L. Listed fire-rated barrier against the spread of fire, smoke, and gases, to maintain the fire rating of the wall which has been penetrated. Where exterior walls or floors are penetrated, provide complete waterproofing of the penetration. Furnish roof flashing for all conduit or equipment which penetrates the roof.</p> <p>12. LIGHT FIXTURES: It shall be the responsibility of the contractor to verify the exact ceiling type, type of fixture mounting and trim, and recessing depth of all recessed fixtures, prior to purchasing any fixtures. Regardless of manufacturer part numbers identified in the Light Fixture Schedule on the plans, it shall be the contractor's responsibility to verify the proper operating voltage of light fixtures, according to what is indicated on the plans, prior to purchasing any fixtures. Equivalent fixture substitutes by Lithonia, Cooper Lighting, and Hubbell will be accepted. Provide lamps for all fixtures. Lamps shall be manufactured by GE, Osram-Sylvania, or Philips. Fluorescent ballasts shall be high frequency electronic type by Magnetic Triad, Lutron, Osram-Sylvania or Motorola and shall have a 5 year warranty. BF shall be greater than .9, THD shall be less than 20%, CF greater than 1.7, and PF greater than .92. HID lamp ballasts shall be high power factor (.90 or greater) type. HID lamps shall be ceramic type. Provide all mounting hardware, adaptors, and accessories as required. UON, center all downlight and wallwasher fixtures on the ceiling tile.</p> <p>13. BUILDING WIRE AND CABLE: All wiring shall be copper, unless otherwise noted as aluminum. Interior wire shall be copper THHN, #12 AWG minimum. Exterior or underground wire shall be XHHW copper. Conductors #10 and #12 shall be solid. Conductors sized larger than #10 shall be stranded. Control and signal wire shall be type TFF copper, min. size #16. Where no wire sizes are shown on plans, provide and install as required by NEC. If no branch circuit wiring interconnection and/or circuit home runs are shown between devices on plans, and if subscript circuit number designations are shown adjacent to the devices, circuit the devices according to subscript notations. Joints and splices in wire shall be made with solderless connectors, and covered so that insulation is equal to conductor insulation. Wire nuts shall not be used for conductors #8 and larger. No splices shall be pulled into conduit. Both conductors and conduit shall be continuous from outlet to outlet. All conduits shall have bushings, with smooth beveled throats installed at both ends, prior to installing conductors. Circuits may be combined, if conduit sizes are adjusted where necessary, and if NEC derating factors are observed. Type MC cable may be used, as permitted by Article 333 of NEC. Type NM cable may be used, as permitted by Article 334 of NEC.</p> <p>14. CONDUIT: All raceways shall be a minimum 1/2" diameter. Use EMT for general interior work, when conduit must be installed exposed. RGS or IMC shall be used in floor slabs, where embedded in concrete, areas exposed to moisture, areas in danger of mechanical injury and hazardous areas. PVC Schedule 40 (3/4" minimum diameter) shall be used below grade with steel transitions through slabs. Use flexible metal conduit connections to motors, transformers, and other vibrating equipment. Exterior flex shall be liquidtight. EMT conduit fittings shall be compression type. Where no raceway sizes are shown on plans, provide and install as required by NEC. All exposed conduit shall be painted to match surface upon which it is installed. Interior wiring, as shown on plans, will typically be concealed in ceilings, walls, or floors, where possible, except in mechanical/electrical rooms, janitor closets, unfinished rooms, and other such rooms where conduits are typically exposed, and unless otherwise noted. Unless otherwise approved by the Architect, the installation of exposed conduit runs mounted to outside of exterior walls shall be kept to a minimum. Horizontal and vertical conduit runs which serve exterior components shall be concealed within interior walls or above ceilings. All interior conduit to be EMT. MC cable is permitted above accessible ceilings for lighting whips but limited to 6'-0" runs.</p> <p>15. DEVICE PLATES: Cover plates shall be smooth nylon with color matching devices. Verify color with FF&E Finish Schedule on Architectural plans. For unfinished areas with exposed conduit, cover plates shall be galvanized steel with beveled edges.</p> <p>16. FUSES: Class RK-1 time delay fuses shall be used for protecting circuit breakers; Bussman Limtron, or equal. Class RK-5 time delay fuses shall be used for protection of motors and transformers; Bussman Fusetron, or equal. Fuses shall be rated for 200K AIC at rated voltage.</p> <p>17. OUTLET BOXES: Except as noted, boxes shall be standard galvanized or sheradized, at least 1-1/2 inches deep or as noted in plans, and of metal at least 1/16 inch thick. Plastic boxes which are at least 1/16 inch thick and at least 1-1/2 inches deep, or as noted on plans, are also permitted. Boxes shall be sized to accommodate devices and conductors as per NEC Article 370. Coordinate depth with wall construction. Boxes used with exposed conduit shall be 4-inch square utility boxes. Exterior boxes shall be galvanized cast-iron with gaskets and appropriate fittings. Boxes shall be provided with approved 3/8" fixture studs where required. Except where located in concrete block, switch and receptacle boxes shall be 4" square for single gang installation. Appropriate gang boxes shall be used for mounting ganged switches. All outlet box openings shall be sealed with listed putty paste.</p> <p>18. WIRING DEVICES: Switches shall be A.C. type as made by Hubbell, Pass & Seymour, General Electric, or Leviton. Receptacles shall be by Hubbell, Bryant, Pass & Seymour, General Electric, or Leviton. Color shall be selected by FF&E Finish Schedule on Architectural plans. Provide matching plugs for special purpose receptacles when required for connecting equipment. All receptacles in toilets, within six (6) feet of sinks, in commercial kitchens, and in exterior locations shall be GFCI type. Additionally, exterior receptacles shall be listed weather-resistant type.</p> <p>19. SAFETY SWITCHES AND DISCONNECTS: Safety switches and disconnect switches shall be Type HD by Cutler-Hammer, Square D, or General Electric. Load disconnects adjacent to equipment on suitable structure. A disconnect shall not be required other than the CB which provides power to equipment when equipment is within sight and not greater than 50 feet from CB. Verify disconnect size from equipment nameplate data. Mount disconnects for outside HVAC units no higher than height of unit and shall be accessible.</p> <p>20. GROUNDING: All equipment shall be grounded and bonded in accordance with local regulations and National Electrical Code. Install a green equipment grounding conductor in all raceways.</p> <p>21. COLOR CODING OF CONDUCTORS: Color code conductors in accordance with the NEC and with standard and accepted trade practices.</p>	<p>26. PANELBOARDS: Panelboards shall be of a dead-front safety type equipped with thermal magnetic molded case circuit breakers with frame and trip ratings as shown on the schedule. Circuit breakers shall be quick-make, quick-break, thermal magnetic trip indicating and shall have common trip on all multiple breakers. Connection to the buss shall be bolt on. Terminals for feeder conductors to the panelboard mains and neutral shall be UL listed as suitable for the type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral, shall be UL listed as suitable for the type conductor specified. Panelboards not shown to be rated for service entrance equipment shall be equipped with an isolated neutral and a grounding buss. The panelboard front shall be of the hinged front type with doors equipped with flush, brushed steel, cylinder handle-type locks with catches and spring-loaded door pulls. The flush lock shall not protrude beyond the front of the door. All panelboard locks shall be keyed alike. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door. Panelboards shall be rated for use as Service Entrance Equipment where required by NEC. For all flush-installed house panelboards which serve common building spaces, install five spare empty 3/4" conduits stubbed to the above ceiling space. Panelboards shall be by General Electric, Square D, or Cutler-Hammer. Load centers shall not be used unless indicated on plans.</p> <p>27. NEC: "NEC" refers to the 2020 edition of the National Electrical Code.</p> <p>28. EXTERIOR WET LOCATION EQUIPMENT: All exterior enclosures or enclosures exposed to moist conditions shall be rated NEMA 3R or rated for use in damp or wet locations, as each case requires. All equipment labeled with "WP" on Plans shall be rated for use in wet locations or provided with a listed weatherproof enclosure in accordance with NEC Article 406.9(B).</p> <p>29. UNDERGROUND INSTALLATIONS: Where conduit is installed below grade, the minimum burial depth shall be 24", unless installed under building slab (where there is no minimum burial depth). Where rigid conduit is installed below grade, coat conduit and couplings with (2) coats of asphaltum paint. Underground primary conduit, installed in coordination with power company, shall be installed at a depth as directed by power company. Avoid all existing utilities. Any existing utilities damaged shall be repaired at Contractor's expense and as directed by Architect. Restore any damaged paving to match existing.</p> <p>30. IDENTIFICATION: Provide 1" high laminated phenolic nameplates, permanently installed, with 3/8" high white letters on black, on the front of all disconnect switches, CB enclosures, panelboards, contactors, transformers, transient voltage surge suppressors, starters, and other similar typical electrical equipment enclosures, when shown as labeled on Plans.</p> <p>31. CLEAN UP: During the progress of work, keep the Owner's premise in a neat and orderly condition, free from accumulation of debris resulting from this work. At the completion of the work, remove all material, scrap, etc. not a part of this Contract.</p> <p>32. OPERATION AND MAINTENANCE INSTRUCTIONS: Submit one set of all equipment catalogs and maintenance data to the Architect. Explain and demonstrate the electrical systems to Owner and/or Owner's representative.</p> <p>33. DRAWING LINEWEIGHTS: Items shown with bold/thick lineweight indicate work to be performed as part of this Contract. Items shown with screened/thin lineweight are existing to remain or by others. Items shown with screened/thin lineweight, which are also shown with associated bold/thick lineweight text or notes, or items that are shown with bold/thick lineweight and labeled as existing, are existing and shall be modified as indicated in the drawings.</p> <p>34. ADDITIONAL SPECIFICATIONS: See "booklet" Specifications Sections, included with these Drawings, which additionally constitute as an integral part of these Plans.</p>
ELECTRICAL GENERAL NOTES:	
<p>1. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATE WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS. REFERENCE COMPLETE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, MECHANICAL, PLUMBING, AND STRUCTURAL) PRIOR TO COMMENCING WORK FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S/ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH WORK.</p> <p>2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION. CONTRACTOR SHALL PROVIDE CONNECTIONS TO OWNER, CONTRACTOR, OR OTHER PARTY'S EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED ON THE DAY OF SPECIALTY EQUIPMENT INSTALLATION. THE ELECTRICIAN MUST BE ON SITE TO MAKE FINAL CONNECTIONS WHERE NECESSARY.</p> <p>3. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXISTING BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.</p> <p>4. REFER TO RISER DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS.</p> <p>5. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS TO IDENTIFY MISCELLANEOUS POWER REQUIREMENTS AND PROVIDE CIRCUITING AS REQUIRED. COORDINATE POWER REQUIREMENTS WITH OTHER INSTALLERS. MISCELLANEOUS POWER REQUIREMENTS FOR CONTROL PANELS AND SMALL EQUIPMENT IS MANUFACTURER DEPENDENT AND MAY NOT BE SHOWN OR NOTED BY OTHERS.</p> <p>6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.</p> <p>7. FINAL AIMING OF ALL ADJUSTABLE LIGHT FIXTURES TO BE AS DIRECTED BY ARCHITECT.</p> <p>8. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTABLES, PANELBOARDS, ETC. WITH EXISTING STRUCTURE PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.</p> <p>9. EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES.</p> <p>10. COORDINATE ALL LIGHTING CONTROL SENSOR LOCATIONS AND MAKE NECESSARY ADJUSTMENTS PER MANUFACTURER RECOMMENDATIONS AND FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE WITH OWNER/ARCHITECT A POST OCCUPANCY TIME TO ADJUST ALL LIGHTING SENSORS.</p> <p>11. OVERCURRENT PROTECTION, WIRE SIZE, AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. REFER TO HVAC/ELECTRICAL SCHEDULE FOR WIRING INFORMATION.</p> <p>12. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT. DO NOT SHARE NEUTRALS.</p> <p>13. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENT OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO PURCHASING EQUIPMENT. VERIFY THE ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT FURNISHED (NAME PLATE INFORMATION) AND MAKE CORRECTIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE EQUIPMENT LOCATIONS WITH MECHANICAL/PLUMBING DRAWINGS AND CONTRACTORS PRIOR TO ROUGH-IN.</p> <p>14. COORDINATE ALL 120V EXHAUST FAN CONTROLS WITH MECHANICAL PRIOR TO ROUGH-IN.</p> <p>15. PROVIDE FINISHED COVERPLATES FOR ALL JUNCTION BOXES. ALL JUNCTION BOXES AND COVERPLATES SHALL BE LABELED WITH BRANCH CIRCUIT ORIGIN AND BREAKER POSITION.</p> <p>16. CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES, AND OTHER DEVICES WITH ARCHITECTURAL ELEVATIONS (FURNITURE LAYOUT, EQUIPMENT DRAWINGS, ETC.) PRIOR TO ROUGH-IN.</p> <p>17. ALL WIRING SHALL BE IN EMT CONDUIT UNLESS NOTED OR APPROVED OTHERWISE.</p> <p>18. EMPTY CONDUIT SHALL BE PROVIDED WITH A 1/4" DRAIN HOLE AT EACH END.</p> <p>19. COORDINATE EXACT LOCATION AND COVER TYPE (CARPET, TILE, OR WOOD) FOR ALL FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN.</p> <p>20. WHERE NOTED, WIRE AND CONDUIT SIZE INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGH CIRCUIT.</p> <p>21. A GROUNDING CONDUCTOR SHALL BE INCLUDED IN EACH RACEWAY OR CABLE, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.</p> <p>22. PROVIDE SCALED DRAWINGS OF ALL ELECTRICAL ROOMS TO THE ELECTRICAL ENGINEERS FOR APPROVAL. REFER TO ORDERING EQUIPMENT. DRAWINGS MUST INSURE PROPER CLEARANCES ARE BEING MAINTAINED PER THE NEC WITH ACTUAL EQUIPMENT BEING INSTALLED. TYPICAL FOR ALL NEW AND EXISTING ELECTRICAL ROOMS.</p> <p>23. TERMINATIONS (UGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTROL DEVICES, AND TRANSFORMERS SHALL BE 1/2" INCH TERMINALS. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC. ARE RATED FOR 60C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310.16 OF CURRENT NEC AND SIZED FOR THE 60C COLUMN.</p> <p>24. CONDUCTOR SIZES SHALL BE NOT SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 10FT. IN LENGTH, THE CONDUCTORS SHALL BE NO.10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200FT. IN LENGTH THE CONDUCTOR SHALL BE NO.8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT.</p> <p>25. IN THE ABOVE APPLICABLE SITUATIONS, THE CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE FOLLOWING:</p> <p>BRANCH CIRCUITTING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTRACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.</p> <p>WIRE NUTS ARE NOT PERMITTED WITHIN THE ELECTRICAL PANEL OR ELECTRICAL DEVICES. ALL WIRING SHALL BE PULLED AT REQUIRED LENGTHS WITHOUT SPLICING WITHIN ELECTRICAL PANELS AND OTHER ELECTRICAL DEVICES.</p> <p>26. BACK TO BACK RECEPTABLES IN ALL FIRE RATED WALLS SHALL BE INSTALLED PER THE INTERNATIONAL BUILDING CODE (IBC 2018).</p> <p>27. PROVIDE AFG FOR PROTECTION FOR ELECTRICAL EQUIPMENT PER NEC AND NFPA 70E.</p> <p>28. CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE NEC ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT IF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.</p> <p>29. PROVIDE SEISMIC BRACING PER THE INTERNATIONAL BUILDING CODE (IBC 2018, CHAPTER 13).</p> <p>30. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, THE NATIONAL ELECTRICAL CODE, AND LOCAL GOVERNING AUTHORITIES.</p>	
GFCI NOTES:	
<p>1. ALL 15A/20A, 125V THROUGH 250V RECEPTABLES INSTALLED IN LOCATIONS SPECIFIED IN NEC 210.8 (I) (11) SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL. GA AMENDMENTS OMIT 250V REQUIREMENT AND ONLY REQUIRE 125V PROTECTION. GFCI RECEPTABLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESEAL THE RECEPTABLE PER THE NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTABLE.</p>	

GFCI NOTES:

- ALL 15A/20A, 125V & 250V RECEPTACLES INSTALLED IN LOCATIONS SPECIFIED IN NEC 210.8 (A) (1)-(11) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. GA AMENDMENTS OMIT 250V REQUIREMENT AND ONLY REQUIRE 125V PROTECTION. GFCI RECEPTABLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER THE NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.

LIGHTING CONTROL GENERAL NOTES:	
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSOY IN THE CORRECT LOCATION REQUIRED FOR A COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.	2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.
3. PROPER JUDGEMENT MUST BE EXERCISED IN THE EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATION OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.	4. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
5. ALL ULTRASONIC CEILING MOUNTED SENSORS SHALL BE LOCATED A MINIMUM OF 6'-0" FROM HVAC SUPPLY AND RETURN DIFFUSERS.	6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SENSITIVITY AND THE TIME DELAY SETTINGS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL AND NATIONAL CODES.
7. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURE'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM. THIS SERVICE IS PROVIDED AT NO ADDITIONAL COST.	8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BOTH THE MANUFACTURER AND THE ELECTRICAL ENGINEER WITH TEN WORKING DAYS WRITTEN NOTICE OF THE SCHEDULED COMMISSIONING DATE. UPON COMPLETION OF THE SYSTEM FIN-TUNING THE FACTORY AUTHORIZED TECHNICIAN SHALL PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.
9. SUBMIT SHOP DRAWINGS INDICATING SENSOR LOCATIONS AND COVERAGE PATTERNS.	

TAMPER-RESISTANT RECEPTACLE NOTES:	
ALL 15A/20A, 125V & 250V NON-LOCKING TYPE RECEPTABLES LISTED BELOW REQUIRE UL LISTED TAMPER RESISTANT RECEPTABLES.	
1. DWELLING UNITS IN ALL AREAS SPECIFIED IN 210.52 & 550.13.	2. GUEST ROOMS AND GUEST SUITES OF HOTELS AND MOTELS.
3. CHILD CARE FACILITIES.	4. PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES.
5. BUSINESS OFFICES, CORRIDORS, WAITING ROOMS, AND THE LIKE IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES.	6. SUBSET OF ASSEMBLY OCCUPANCIES DESCRIBED IN 518.2 TO INCLUDE PLACES OF WAITING TRANSPORTATION, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS.
7. DORMITORIES.	8. EXCEPTIONS TO RECEPTABLES LOCATED MORE THAN 5'-1/2" ABOVE THE FLOOR, RECEPTABLES THAT ARE PART OF A LUMINAIRE OR APPLANCE, A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLANCES LOCATED WITHIN THE DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE LOCATION TO ANOTHER AND THE GROUND- AND-PLUG CONNECTED IN ACCORDANCE WITH 400.10(A)(6), (A)(7), OR (A)(8), NON-GROUNDING RECEPTABLES USED FOR REPLACEMENTS AS PERMITTED IN 406.4(D)(2)(a).

FIRE ALARM GENERAL NOTES:	
1. FIRE ALARM SUBCONTRACTOR SHALL PREPARE ENGINEERED FIRE ALARM PERMIT AND CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL INCLUDE PANEL AND DEVICE SPECIFICATIONS, CIRCUITING, VOLTAGE DROP AND BATTERY CALCULATIONS. VERIFY FIRE ALARM DEVICES ARE COMPATIBLE TO EXISTING FIRE ALARM SYSTEM IF APPLICABLE. ADDITIONAL DEVICES SHALL BE PROVIDED FOR VOLTAGE DROP AND BATTERY CALCULATIONS. SUBCONTRACTOR'S DRAWINGS SHALL INCLUDE ALL DEVICES NECESSARY FOR A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM AS REQUIRED BY NFPA 72 & NFPA 101. DEVICES SHOWN ON THESE DRAWINGS INDICATE THE INTENT OF FIRE ALARM SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM ENGINEER'S DRAWINGS AND PROVIDE ALL RACEWAY, BOXES, AND POWER REQUIRED FOR THEIR SPECIFIED SYSTEM. DEVICE LOCATIONS AND NUMBER MAY DIFFER FROM WHAT IS SHOWN ON THESE PLANS. NO ADDITIONAL ADJUSTMENT SHALL BE REQUIRED FOR INCORPORATING THESE DEVICES AS IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE FIRE ALARM ENGINEER.	2. FIRE ALARM SYSTEM AND ALL ASSOCIATED OPERATIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING: A. GEORGIA ACCESSIBILITY CODE B. INTERNATIONAL FIRE CODE (2018) C. NFPA 70, NATIONAL ELECTRICAL CODE (2020) D. INTERNATIONAL BUILDING CODE (2018) E. INTERNATIONAL MECHANICAL CODE (2018) F. OTHER APPLICABLE NFPA STANDARDS
3. AUDIO/VISUAL SIGNAL APPLIANCES SHALL COMPLY WITH THE REQUIREMENTS OF RULE 120-3-20-.39 OF THE STATES ACCESSIBILITY CODE AND NFPA 72.	4. PROVIDE SEAL FOR PENETRATION OF FIRE RATING WALLS BY CONDUIT.
5. ALL STROBES AND SPEAKER/STROBES SHALL HAVE SWITCH SELECTABLE CANDELA (15,30,60,75, AND 110 CANDELA). AT TIME OF INSTALLATION SET ALL STROBES AND SPEAKER/STROBES TO 110 CANDELA UNLESS OTHERWISE NOTED ON THE DRAWINGS BY SUBSCRIPT ADJACENT TO THE DEVICE SYMBOL. STATE AREA CODE REQUIRES A MINIMUM OF 75 CANDELA AT ALL LOCATIONS.	6. MOUNT ALL STROBES AND SPEAKER/STROBES AT 80 INCHES AFF OR 6 INCHES FROM THE CEILING, WHICHEVER IS LOWER.
7. ALL HVAC DUCT MOUNTED SMOKE DETECTORS TO BE LOCATION ON THE EXTERIOR OF ASSOCIATED DUCT WORK AND WITH EASY ACCESS PROVIDED FOR SERVICING AND TESTING.	8. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT.
9. PROVIDE FIRE ALARM CONNECTION TO ALL SUPPRESSION SYSTEMS.	10. PROVIDE SITE PROTECTION TO PIV.
11. PROVIDE THE COUNTY STANDARD FIRE ALARM SYSTEM FIRE-LITE.	

DEMO PLAN GENERAL NOTES:	
A. DEMOLISH ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, COMPONENTS, WIRING, CONDUIT/RACEWAY, BOXES AND ASSOCIATED SUPPORTS, INCLUDING ALL MECHANICAL AND ACCESSORIES INCLUDING RECEPTABLES, SWITCHES, LIGHT FIXTURES, TELEPHONE OUTLETS, DATA OUTLETS, LOW-VOLTAGE AND AUXILIARY SYSTEM DEVICES, AND ANY OTHER EXISTING MISCELLANEOUS ELECTRICAL EQUIPMENT FROM WALLS OR CEILINGS BEING REMOVED.	B. COORDINATE ALL SALVAGE REQUIREMENTS WITH THE OWNER PRIOR TO DEMOLITION. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH EPA GUIDELINES AND LOCAL REQUIREMENTS.
C. DEMOLITION SHALL BE IN ACCORDANCE WITH EPA GUIDELINES AND LOCAL REQUIREMENTS.	D. ABANDON CONCEALED OR BURIED EXISTING CONDUIT WHICH CANNOT BE REMOVED WITHOUT DAMAGE TO EXISTING WALLS, FLOORS, OR CEILINGS WHICH ARE TO REMAIN.
E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BIDDING TO VERIFY THE EXTENT OF DEMOLITION WORK REQUIRED.	F. PROVIDE ANY REPAIRS, PATCHING, AND PAINTING FOR ANY ROOM OR EXTERIOR SURFACES, INCLUDING WALLS, CEILINGS, AND FLOORS THAT IS REQUIRED AS A RESULT OF DEMOLITION, AFTER REPAIRS, PATCHING, AND PAINTING ARE COMPLETE. ALL NEW SURFACES SHALL MATCH THE EXISTING, ADJOINING, AND/OR ADJACENT SURFACES.
G. OPENINGS REMAINING AS A RESULT OF THE REMOVAL OF EXISTING RECESSED OUTLET BOXES, SWITCH BOXES, AND OTHER ELECTRICAL EQUIPMENT WHICH IS BEING DEMOLISHED WILL BE PATCHED IN ACCORDANCE WITH ARCHITECTURAL PLANS TO MATCH ROOM OR AREA FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.	H. ANY EXISTING ELECTRICAL RACEWAY, JUNCTION BOXES, EQUIPMENT, OR DEVICES NO LONGER USED IN THE FACILITY OR SHOWN ON PLANS IS TO BE REMOVED. CONDUIT BELOW SLAB OR IN-GRADE CAN REMAIN IN PLACE.

PROJECT NUMBER
23-001

DATE
05/15/23

REVISIONS

NO.	DATE
0000	00/00/00

FACILITY CODE
000-0000

KRH
INCORPORATED
ARCHITECTS

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INTERIOR RENOVATIONS FOR CHEROKEE COUNTY:
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400 EAST MAIN STREET, CANTON GA 30114
CHEROKEE COUNTY BOARD OF COMMISSIONERS

SHEET INDEX

ELECTRICAL
NOTES, LEGEND, &
SPECIFICATIONS

SHEET INDEX

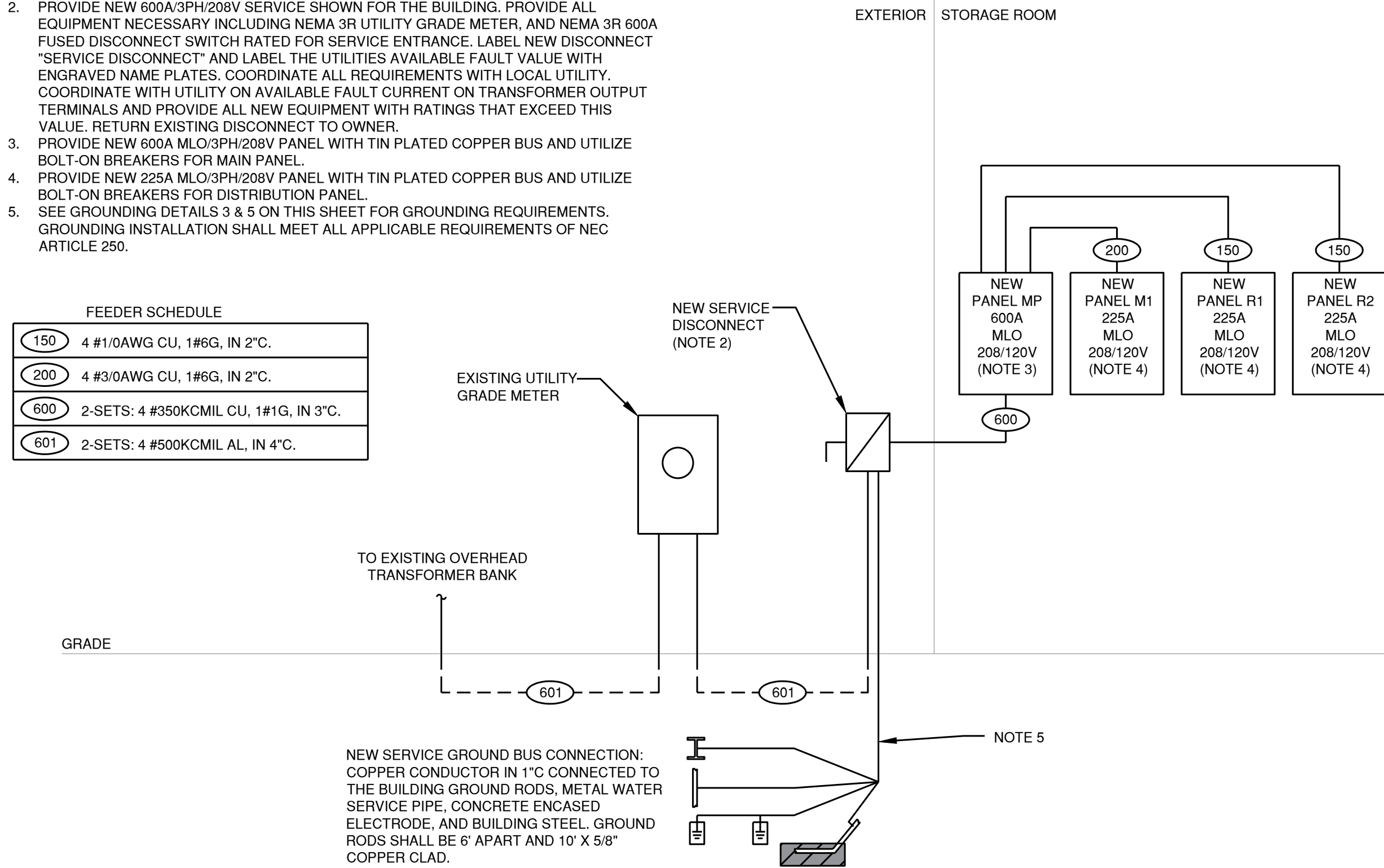
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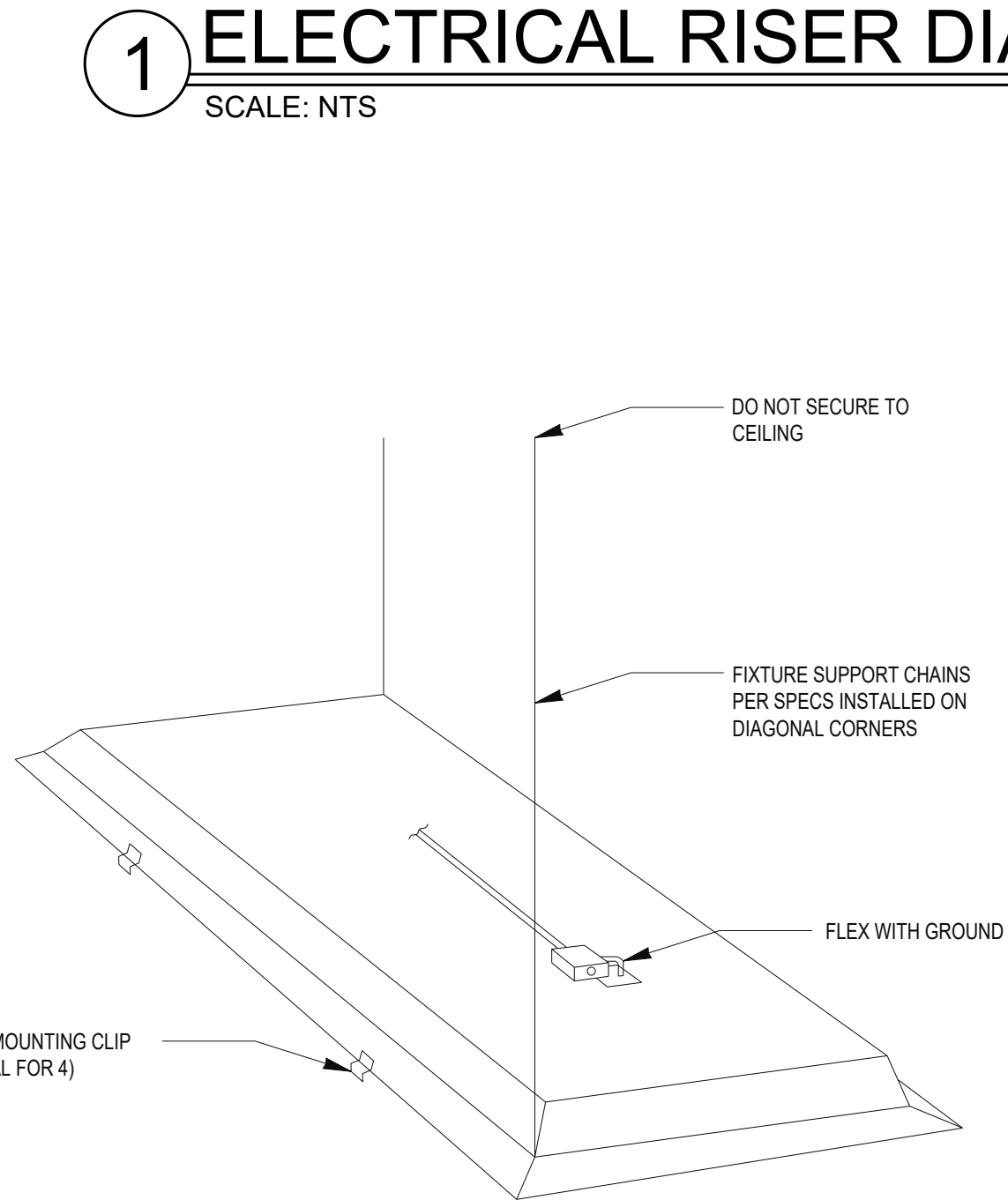
RISER DIAGRAM NOTES:

- ALL EQUIPMENT AND OTHER ELECTRICAL MATERIALS/WORK SHOWN IN THE RISER DIAGRAM SHALL BE NEW, LISTED FOR USE, RATED FOR EXTERIOR USE WHERE APPLICABLE, PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE NEW 600A/3PH/208V SERVICE SHOWN FOR THE BUILDING. PROVIDE ALL EQUIPMENT NECESSARY INCLUDING NEMA 3R UTILITY GRADE METER, AND NEMA 3R 600A FUSED DISCONNECT SWITCH RATED FOR SERVICE ENTRANCE. LABEL NEW DISCONNECT "SERVICE DISCONNECT" AND LABEL THE UTILITIES AVAILABLE FAULT VALUE WITH ENGRAVED NAME PLATES. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY. COORDINATE WITH UTILITY ON AVAILABLE FAULT CURRENT ON TRANSFORMER OUTPUT TERMINALS AND PROVIDE ALL NEW EQUIPMENT WITH RATINGS THAT EXCEED THIS VALUE. RETURN EXISTING DISCONNECT TO OWNER.
- PROVIDE NEW 600A MLO/3PH/208V PANEL WITH TIN PLATED COPPER BUS AND UTILIZE BOLT-ON BREAKERS FOR MAIN PANEL.
- PROVIDE NEW 225A MLO/3PH/208V PANEL WITH TIN PLATED COPPER BUS AND UTILIZE BOLT-ON BREAKERS FOR DISTRIBUTION PANEL.
- SEE GROUNDING DETAILS 3 & 5 ON THIS SHEET FOR GROUNDING REQUIREMENTS. GROUNDING INSTALLATION SHALL MEET ALL APPLICABLE REQUIREMENTS OF NEC ARTICLE 250.

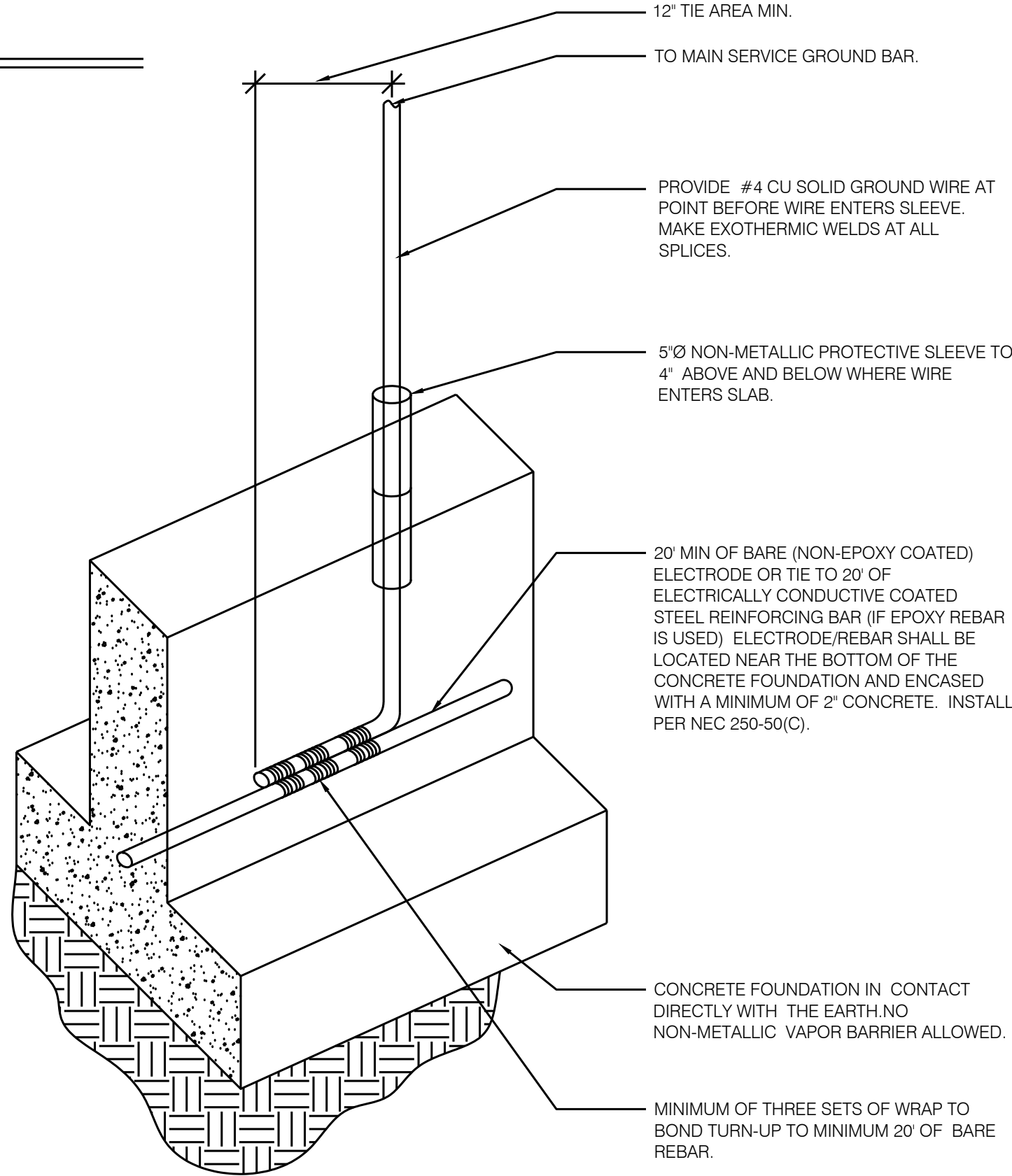
FEEDER SCHEDULE	
150	4 #1/0AWG CU, 1#6G, IN 2"C.
200	4 #3/0AWG CU, 1#6G, IN 2"C.
600	2-SETS: 4 #350KCMIL CU, 1#1G, IN 3"C.
601	2-SETS: 4 #500KCMIL AL., IN 4"C.



1 ELECTRICAL RISER DIAGRAM
SCALE: NTS

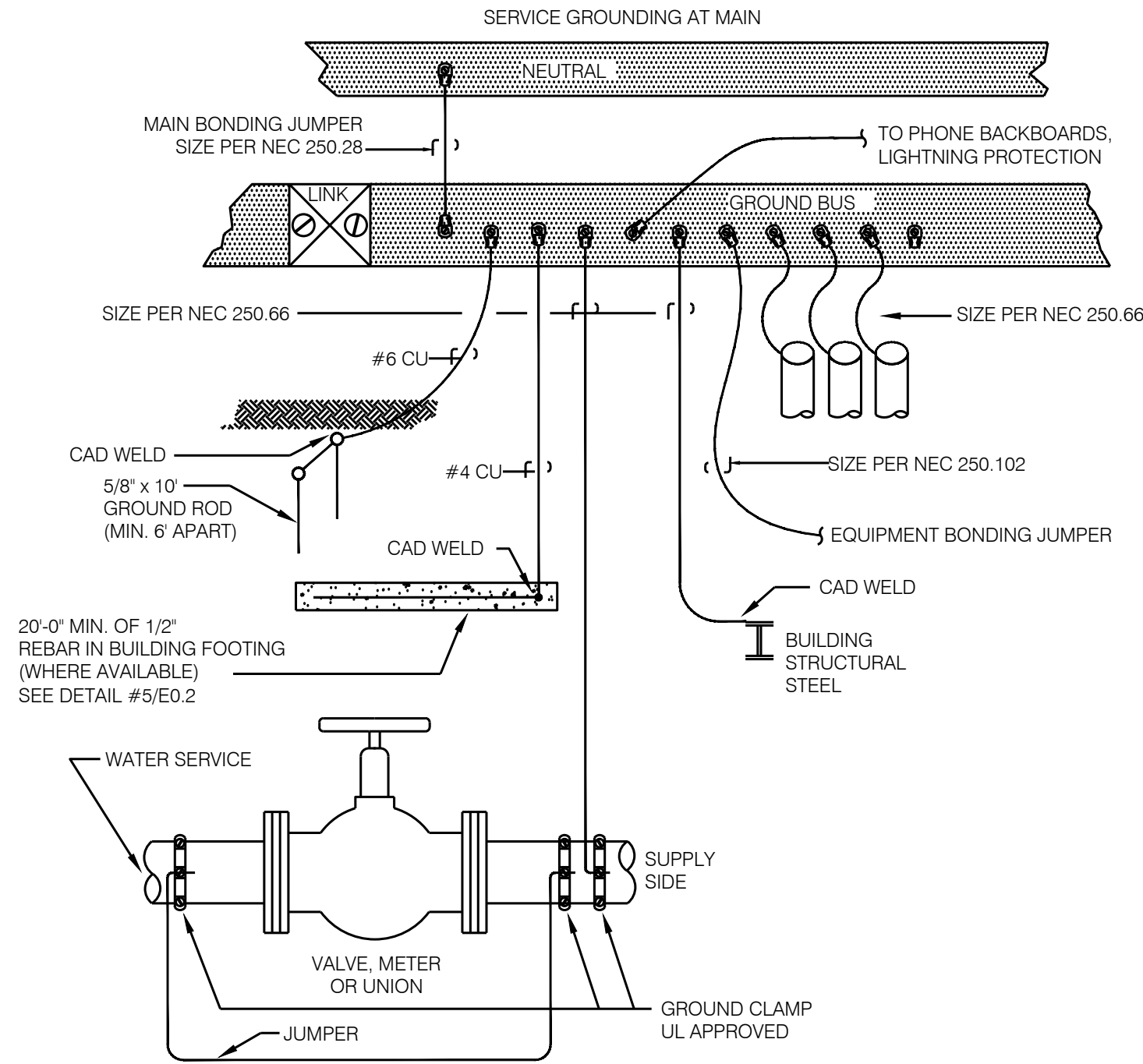


4 TROFFER HANGING DETAIL
SCALE: NTS

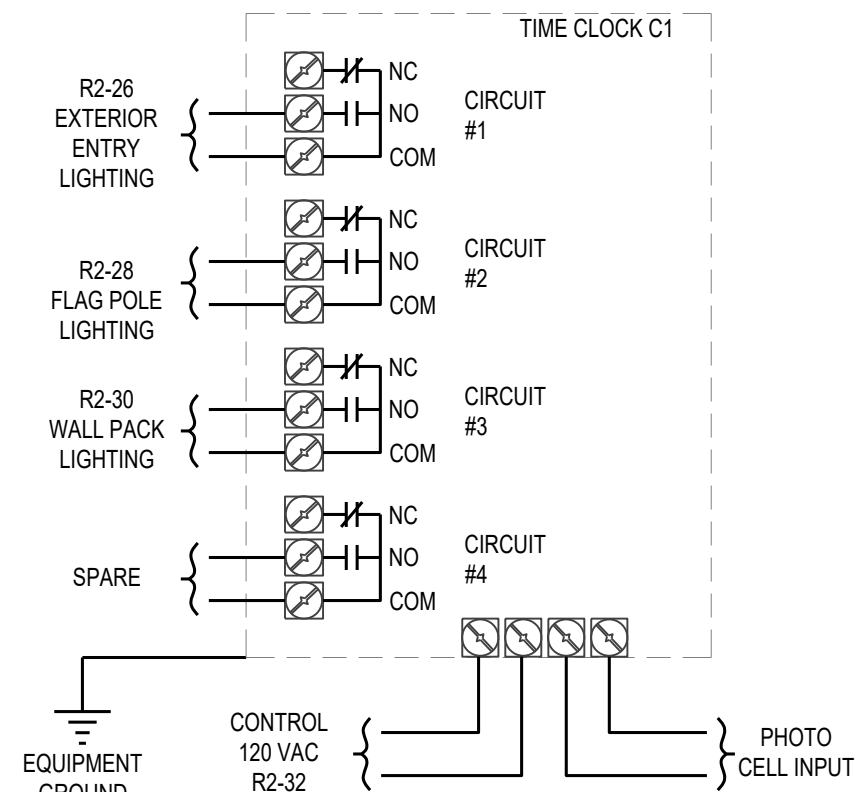


5 CONCRETE ENCASED ELECTRODE DETAIL
SCALE: NTS

2 NEUTRAL/ GROUND DIAGRAM
SCALE: NTS



3 EXTERIOR TIME CLOCK DETAIL
SCALE: NTS



MECHANICAL EQUIPMENT SCHEDULE																	
EQUIPMENT NAME	LOCATION / SERVES	VOLTAGE	PHASE	HP	KW	KW / POLE	FLA	MCA	MOCp	BREAKER AMPACITY	PANEL	FEEDER	DISCONNECT (NOTE 1)			CONTROL	
													SIZE	POLES	FUSE SIZE		ENCLOSURE
HP-1	EXTERIOR	208	1			1.97	19.0	23.7	40	40	M1-5.7	2 # 8 ,1# 10 G- 3/4 "C	60	2	NF	NEMA 3R	BY DIVISION 15
HP-2	EXTERIOR	208	1			1.35	13.0	16.2	25	25	M1-25.27	2 # 10 ,1# 10 G- 1/2 "C	30	2	NF	NEMA 3R	BY DIVISION 15
HP-3	EXTERIOR	208	1			1.35	13.0	16.2	25	25	M1-29.31	2 # 10 ,1# 10 G- 1/2 "C	30	2	NF	NEMA 3R	BY DIVISION 15
HP-4	EXTERIOR	208	1			2.48	23.8	29.8	50	50	M1-1.3	2 # 6 ,1# 10 G- 3/4 "C	60	2	NF	NEMA 3R	BY DIVISION 15
HP-5	EXTERIOR	208	1			1.97	19.0	23.7	40	40	M1-9.11	2 # 8 ,1# 10 G- 3/4 "C	60	2	NF	NEMA 3R	BY DIVISION 15
HP-6	EXTERIOR	208	1			1.97	19.0	23.7	40	40	M1-13.15	2 # 8 ,1# 10 G- 3/4 "C	60	2	NF	NEMA 3R	BY DIVISION 15
AHU-1	MECH 142	208	1			0.45	4.3	5.4	15	15	M1-2.4	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-1 HEAT	MECH 142	208	1		8.0	4.00			60	60	MP-7.9	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
AHU-2	MECH 142	208	1			0.45	4.3	5.4	15	15	M1-6.8	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-2 HEAT	MECH 142	208	1		8.0	4.00			60	60	MP-11.13	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
AHU-3	MECH 144	208	1			0.45	4.3	5.4	15	15	M1-10.12	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-3 HEAT	MECH 144	208	1		8.0	4.00			60	60	MP-15.17	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
AHU-4	MECH 144	208	1			0.45	4.3	5.4	15	15	M1-14.16	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-4 HEAT	MECH 144	208	1		8.0	4.00			60	60	MP-19.21	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
AHU-5	MECH 143	208	1			0.45	4.3	5.4	15	15	M1-18.20	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-5 HEAT	MECH 143	208	1		8.0	4.00			60	60	MP-23.25	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
AHU-6	MECH 143	208	1			0.45	4.3	5.4	15	15	M1-22.24	2 # 12 ,1# 12 G- 1/2 "C	30	2	NF	NEMA 1	BY DIVISION 15
AHU-6 HEAT	MECH 143	208	1		8.0	4.00			60	60	MP-27.29	2 # 4 ,1# 10 G- 1 "C	60	2	NF	NEMA 1	BY DIVISION 15
HP-7 / WFC-7	DATA/ELEC 139	208	1			1.50	14.4	18.0	25	25	M1-21.23	2 # 10 ,1# 10 G- 1/2 "C	30	2	NF	NEMA 3R	BY DIVISION 15
EWB	JANITOR 138	208	1		6.0	3.00			40	40	M1-17.19	2 # 8 ,1# 10 G- 3/4 "C	60	2	NF	NEMA 1	BY DIVISION 15
EF	RESTROOMS/JANITOR	120	1			0.02	0.2		20	20	SEE PLANS	2 # 12 ,1# 12 G- 1/2 "C	MOTOR RATED SWITCH			BY DIVISION 15	

NOTES
1. DISCONNECT SWITCH IS NOT REQUIRED IF UNIT IS PROVIDED WITH DISCONNECT OR IF UNIT HAS CORD PLUG AND RECEPTACLE.

LIGHTING FIXTURE SCHEDULE									
FIXTURE DESIGNATION	GENERIC DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	ALLOWANCE	COLOR	MOUNTING HEIGHT	VOLTAGE	LAMP	COLOR TEMP.	WATTAGE
A	2X4 RECESSED LED TROFFER	METALUX CAT# 24FPS.25CT3		WHITE	RECESSED	120	ADJ LED	3500K	56.3
B	2X2 RECESSED LED TROFFER	METALUX CAT# 22FPS.25CT3		WHITE	RECESSED	120	ADJ LED	3500 K	31
C	6" RECESSED LED DOWNLIGHT	PORTFOLIO CAT# LD6B20D010-EU6B10208035-6LBM0H		WHITE	RECESSED	120	2000LM LED	3500K	20
D	4" LINEAR LED STRIP	METALUX CAT# 4SRL-LD5-33SL-LN-UNV-L835-CD1-U		WHITE	SURFACE	120	3400LM LED	3500K	24
F	15" RECESSED LED DOWNLIGHT	MCRGRAW EDISON CAT#LRCB16-1-LEDE1-WST		WHITE	RECESSED	120	3000LM LED	4000L	37
SC	GROUND SPOT	BEGA #77040 GROUND MOUNT W/ CONCRETE BASE AND 1/2" NPS J-BOX COVER		STAINLESS STEEL	GROUND	120	1867LM LED	4000K	36.2
V	VANITY FIXTURE	SHAPER CAT# 60525W-L3/830-UNV-ALP		WHITE	WALL	120	2000LM LED	3000K	20
WF	EXTERIOR WALL PACK	LUMARK CAT#LDWP-GL-6B-120V-PE BPC PHOTOCELL OPTION		BRONZE	SURFACE	120	5800LM LED	4000K	46
WP	EXTERIOR WALL PACK	MCRGRAW EDISON CAT# IST-SAID-740-U-T3-BZ BPC PHOTOCELL OPTION MOUNT ABOVE ARCH CENTERED		BRONZE	SURFACE	120	5700LM LED	4000K	49.5
X0	INTERIOR EGRESS FIXTURE	SURE LITES CAT#AP2SQLED		WHITE	SURFACE	120	LED	1.8	
X1	EXIT SIGN	SURE LITES CAT# APC SERIES APCH7RSQ ARROWS AND FACES PER THE PLANS PROVIDE REMOTE HEADS WHERE SHOWN/ OMIT IF NOT INDICATED		WHITE	WALL/CEILING	120	LED	3.4	
X2	EXTERIOR EGRESS FIXTURE	SURE LITES CAT# SLEDWA29BZSD		BRONZE	WALL	120	LED	1	

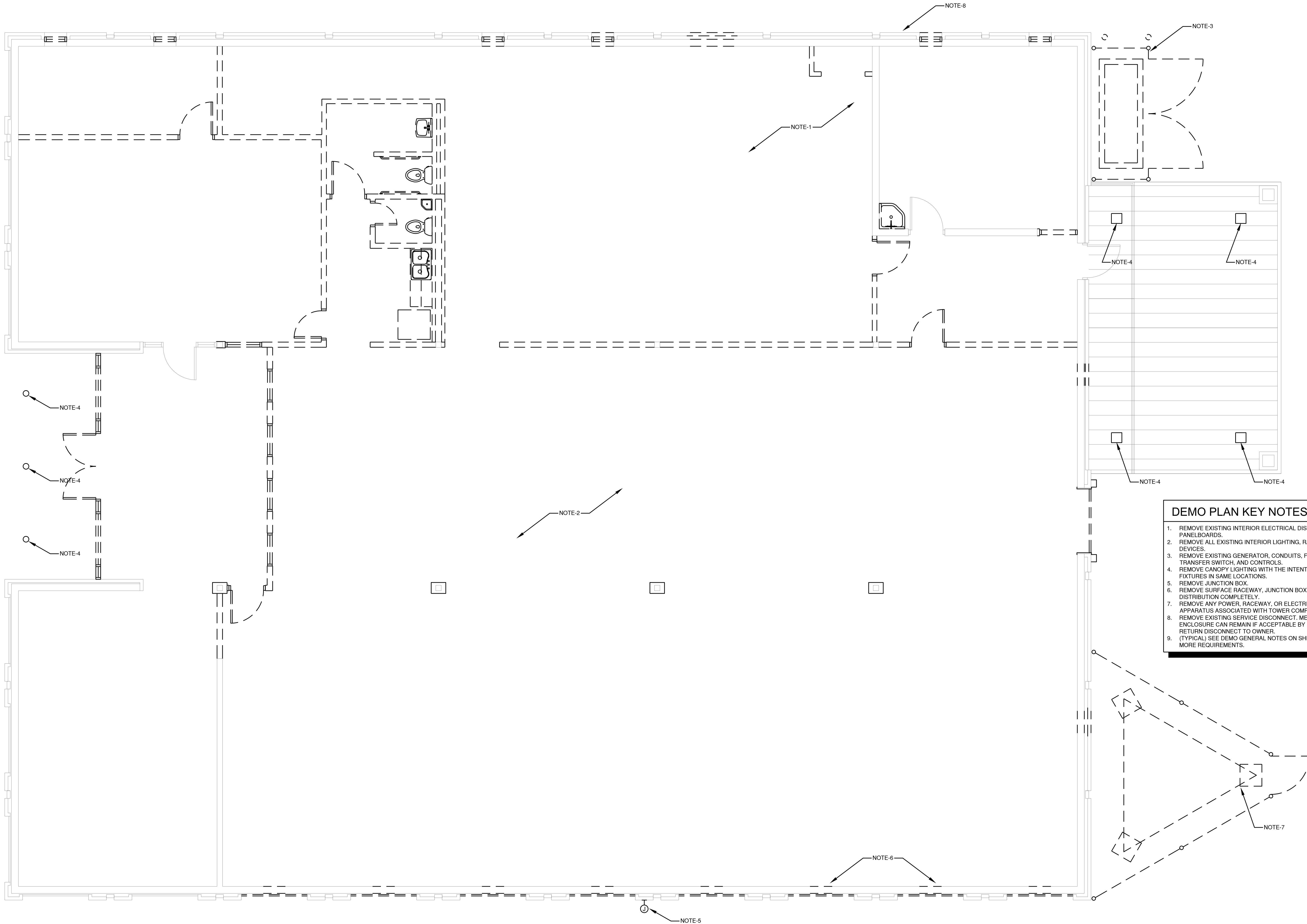
CONTRACTOR PROVIDED EQUIPMENT SEE VICON SPEC 28.23.00				
Description	Make	Mfr part Number	Quantity	Note
Floor-mounted 2-post Telco rack	CPI	55053-703	1	Provide the following 3 items in quantities and lengths as directed by owner
Ladder rack	CPI	10250-712		12" ladder rack
Wall angle kit	CPI	11421-712		12" angle kit
Rack mounting plate	CPI	10595-712		Rack mounting plate
Pro License (Cameras)	Valerus	VLR-VPRO-LIC	21	Single Edge Device new license for Vicon Cameras
Protection Plan (Cameras)	Valerus	VLR-PRO-UPP-5	21	
Recording Server (Cameras)	Valerus	VLR-4TB-A-RK	1	4TB internal HDD Storage, Rack mount
Outdoor Bullet Camera	Valerus	V2008B-W310MIR	3	8MP
Outdoor Bullet Camera	Valerus	V22105B-W28IR	18	5MP, true WDR, 2.8 mm Fixed lens, IR
Backbox (Cameras)	Valerus	V2100B-Box	21	
30" CPU Flatscreen monitor and keyboard			1	Compatible with recording server

*Equipment noted is for the large components but does not reflect all necessary equipment.
Provide all necessary equipment for a fully operational system.

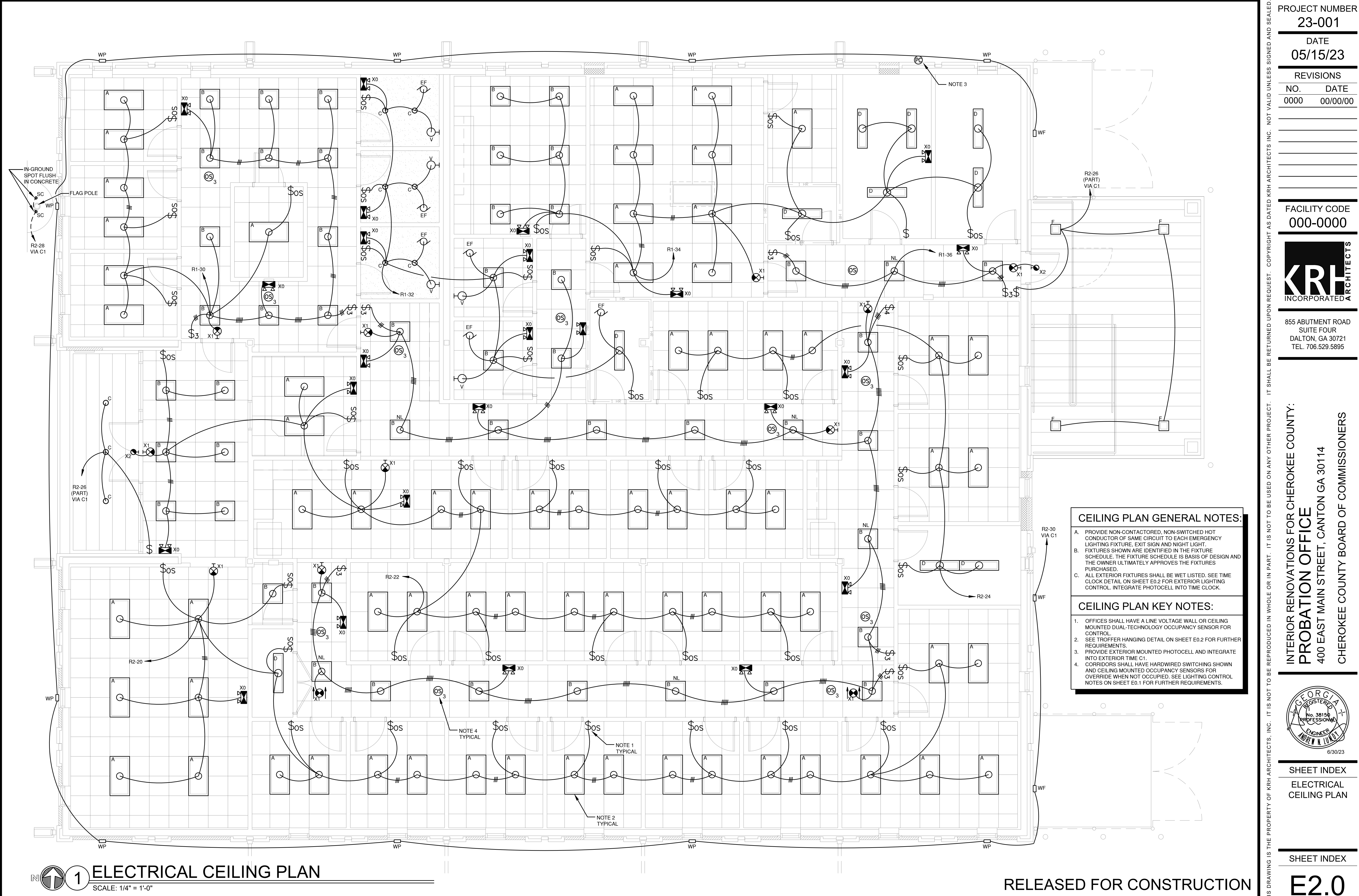
LOAD SUMMARY

VOLTAGE: 208 Y/120V									
CIRCUIT DESCRIPTION									
PANEL MP	PANEL MI	PANEL RI	PANEL R2		CONNECTED	DEMAND			
LIGHTING	0.0	0.0	4.0	4.0	7.96	9.95			
RECEPTACLE	0.0	0.0	18.6	21.7	40.29	25.15			
MOTOR	0.0	5.4	0.0	0.0	5.40	12.96			
HEATING	0.0	48.6	6.0	0.0	54.00	54.00			
COOLING	0.0	25.2	0.0	0.0	25.18	25.18			
KITCHEN	0.0	0.0	0.0	0.0	0.00	0.00			
NEW TOTAL DIVERSIFIED KVA						127			
NEW TOTAL DIVERSIFIED AMPS						353			

PANEL NAME			LOCATION:		VOLTAGE: 208 Y/120V 3 PHASE							MOUNTING/ENCLOSURE: SURFACE / NEMA 1				
MP			ELEC ROOM 139		600A MLO											
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION		KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION		TYPE	POLES	AMPS
200	3		PANEL M1		13.92	1	13.92			2		TVSS			3	60
		H			11.07	3		11.07		4						
					11.59	5			11.59	6						
60	2	H	AHU-1 HEAT		4.00	7	12.20			8	8.20	PANEL R1			3	150
		H	AHU-2 HEAT		4.00	11		11.73		10	7.73					
		H			4.00	13	12.40		10.68	12	6.68					
60	2	H	AHU-3 HEAT		4.00	13				14	8.40	PANEL R2			3	150
		H			4.00	15		11.72		16	7.72					
		H			4.00	17			14.52	18	10.52					
60	2	H	AHU-4 HEAT		4.00	19	4.00			20		SPACE			1	
		H			4.00	21		4.00		22		SPACE			1	
60	2	H	AHU-5 HEAT		4.00	23		4.00		24		SPACE			1	
		H			4.00	25	4.00			26		SPACE			1	
60	2	H	AHU-6 HEAT		4.00	27		4.00		28		SPACE			1	
		H			4.00	29			4.00	30		SPACE			1	
20	1		SPARE		31					32		SPACE			1	
20	1		SPARE		33					34		SPACE			1	
20	1		SPARE		35					36		SPACE			1	
20	1		SPARE		37					38		SPACE			1	
20	1		SPARE		39					40		SPACE			1	
20	1		SPARE		41					42		SPACE			1	
PHASE TOTAL					46.5		42.5		44.8		KVA					
TOTAL CONNECTED LOAD													134 KVA	371 A		
TOTAL DEMAND LOAD													134 KVA	371 A		



- DEMO PLAN KEY NOTES:**
1. REMOVE EXISTING INTERIOR ELECTRICAL DISTRIBUTION PANELBOARDS.
 2. REMOVE ALL EXISTING INTERIOR LIGHTING, RACEWAY, AND DEVICES.
 3. REMOVE EXISTING GENERATOR, CONDUITS, FEEDERS, TRANSFER SWITCH, AND CONTROLS.
 4. REMOVE CANOPY LIGHTING WITH THE INTENT TO REPLACE FIXTURES IN SAME LOCATIONS.
 5. REMOVE JUNCTION BOX.
 6. REMOVE SURFACE RACEWAY, JUNCTION BOXES, AND DISTRIBUTION COMPLETELY.
 7. REMOVE ANY POWER, RACEWAY, OR ELECTRICAL APPARATUS ASSOCIATED WITH TOWER COMPLETELY.
 8. REMOVE EXISTING SERVICE DISCONNECT, METER AND ENCLOSURE CAN REMAIN IF ACCEPTABLE BY UTILITY. RETURN DISCONNECT TO OWNER.
 9. (TYPICAL) SEE DEMO GENERAL NOTES ON SHEET E0.1 FOR MORE REQUIREMENTS.



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PROFESSIONAL

ENGINEER

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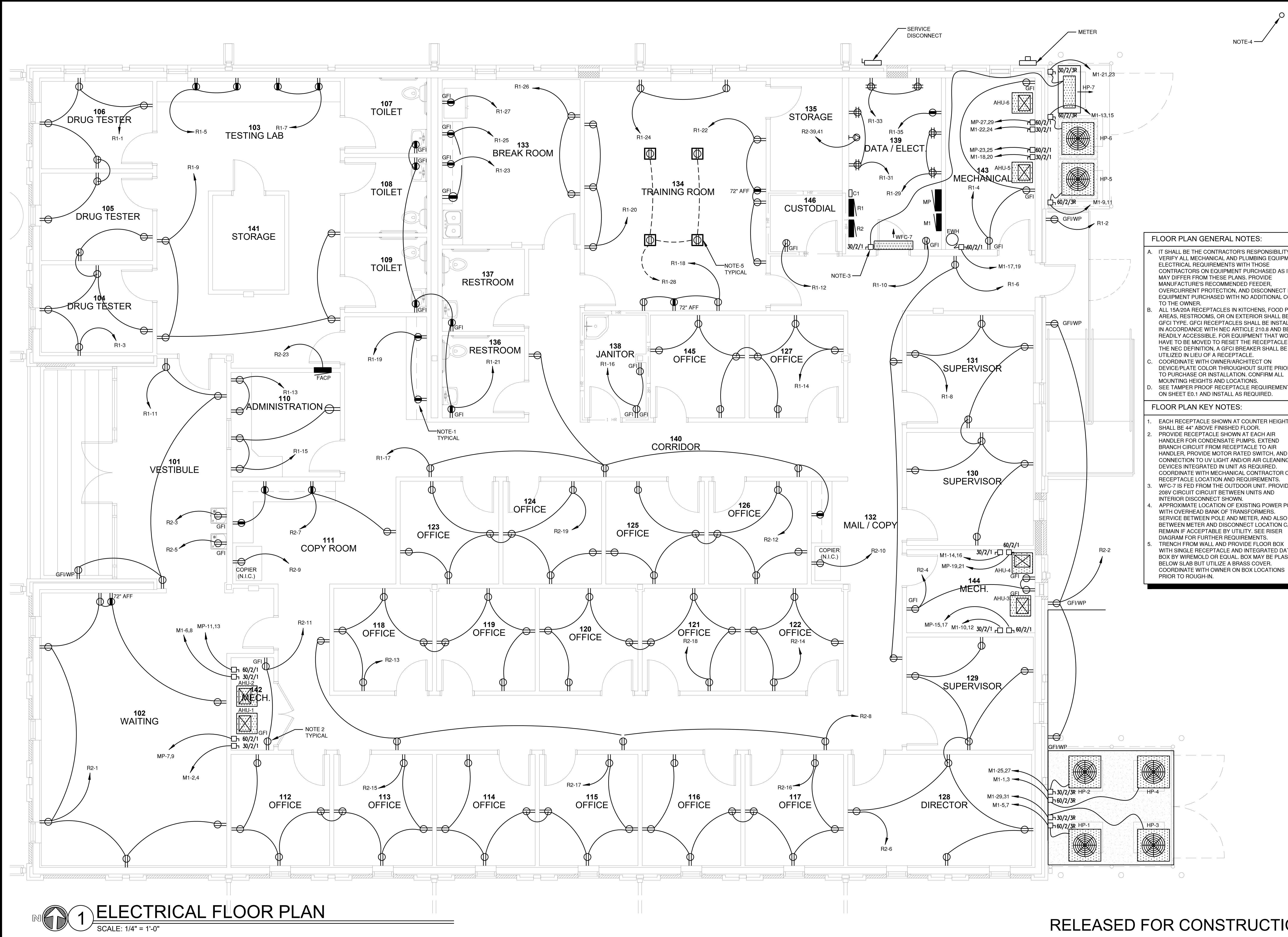
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ELECTRICAL
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E2.0

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RELEASED FOR CONSTRUCTION



FLOOR PLAN GENERAL NOTES:

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL REQUIREMENTS WITH THOSE CONTRACTORS ON EQUIPMENT PURCHASED AS IT MAY DIFFER FROM THESE PLANS. PROVIDE MANUFACTURER'S RECOMMENDED FEEDER, OVERCURRENT PROTECTION, AND DISCONNECT FOR EQUIPMENT PURCHASED WITH NO ADDITIONAL COST TO THE OWNER.

B. ALL 15A/20A RECEPTACLES IN KITCHENS, FOOD PREP AREAS, RESTROOMS, OR ON EXTERIOR SHALL BE GFCI TYPE. GFCI RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER THE NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.

C. COORDINATE WITH OWNER/ARCHITECT ON DEVICE/PLATE COLOR THROUGHOUT SUITE PRIOR TO PURCHASE OR INSTALLATION. CONFIRM ALL MOUNTING HEIGHTS AND LOCATIONS.

D. SEE TAMPER PROOF RECEPTACLE REQUIREMENTS ON SHEET E0.1 AND INSTALL AS REQUIRED.

FLOOR PLAN KEY NOTES:

1. EACH RECEPTACLE SHOWN AT COUNTER HEIGHT SHALL BE 44" ABOVE FINISHED FLOOR.

2. PROVIDE RECEPTACLE SHOWN AT EACH AIR HANDLER FOR CONDENSATE PUMPS. EXTEND BRANCH CIRCUIT FROM RECEPTACLE TO AIR HANDLER, PROVIDE MOTOR RATED SWITCH, AND CONNECTION TO UV LIGHT AND/OR AIR CLEANING DEVICES INTEGRATED IN UNIT AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR ON RECEPTACLE LOCATION AND REQUIREMENTS.

3. WFC-7 IS FED FROM THE OUTDOOR UNIT. PROVIDE 208V CIRCUIT CIRCUIT BETWEEN UNITS AND INTERIOR DISCONNECT SHOWN.

4. APPROXIMATE LOCATION OF EXISTING POWER POLE WITH OVERHEAD BANK OF TRANSFORMERS. SERVICE BETWEEN POLE AND METER, AND ALSO BETWEEN METER AND DISCONNECT LOCATION CAN REMAIN IF ACCEPTABLE BY UTILITY. SEE RISER DIAGRAM FOR FURTHER REQUIREMENTS.

5. TRENCH FROM WALL AND PROVIDE FLOOR BOX WITH SINGLE RECEPTACLE AND INTEGRATED DATA BOX BY WIREMOLD OR EQUAL. BOX MAY BE PLASTIC BELOW SLAB BUT UTILIZE A BRASS COVER. COORDINATE WITH OWNER ON BOX LOCATIONS PRIOR TO ROUGH-IN.


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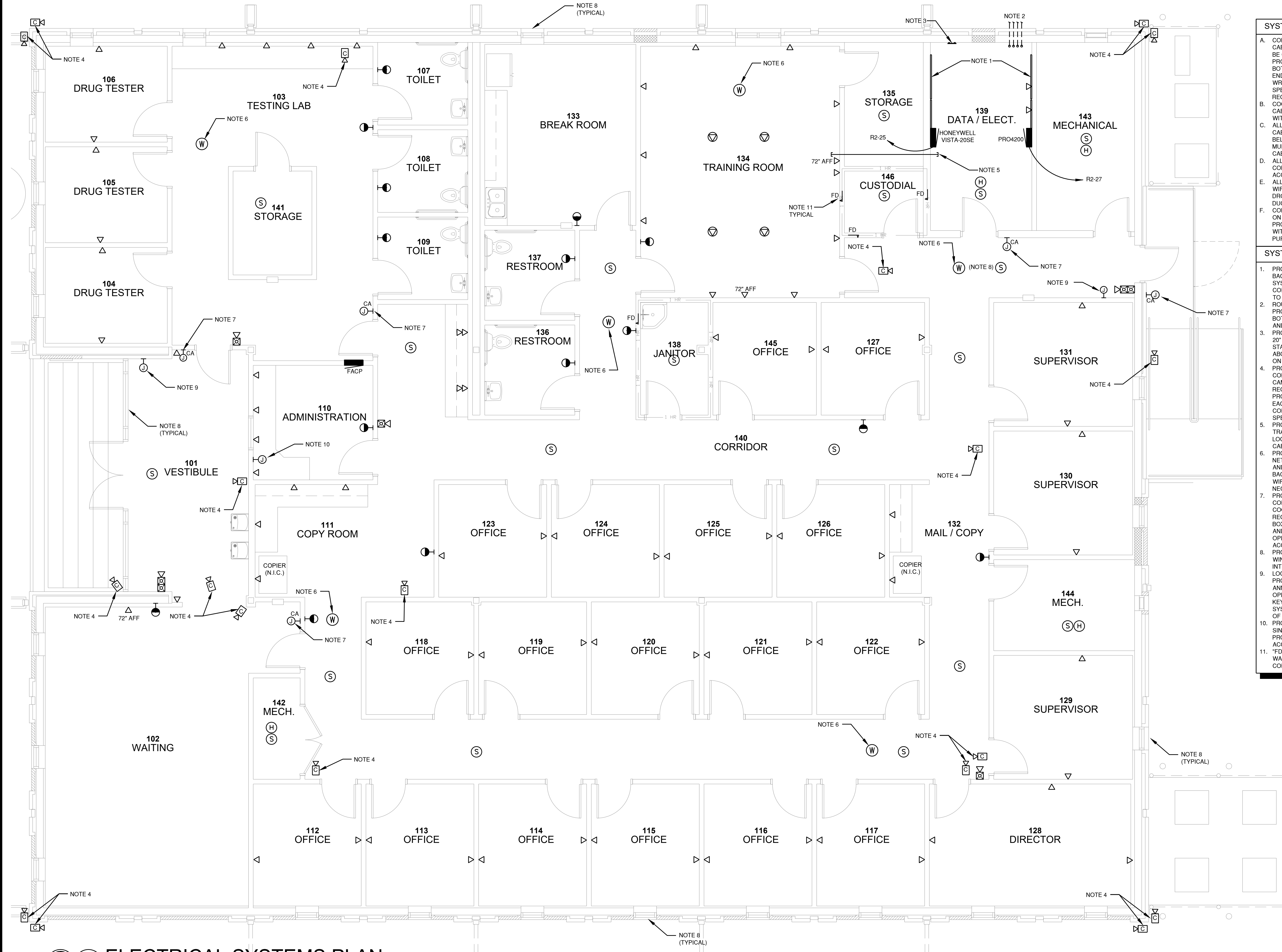

6/30/23

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E3.0

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- SYSTEMS PLAN GENERAL NOTES:**
- A. CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CABLING. ALL HOME RUNS FOR DATA CABLE SHALL BE CAT6 AND TERMINATE IN NEW DATA RACK. PROVIDE NUMBERING SCHEME AND AFFIX LABEL AT BOTH CABLE ENDS AND COVER PLATE. TERMINATE ENDS ON ALL CABLES. LABELS SHALL BE TYPE WRITTEN, PERMANENT TYPE LABELS. SEE SPECIFICATION 16120 FOR COUNTY STANDARDS AND REQUIREMENTS.
 - B. COORDINATE ALL LOW VOLTAGE REQUIREMENTS, CABLING, TERMINATIONS, AND EXACT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
 - C. ALL DATA DROPS ARE TO INCLUDE THREE (3) CAT6 CABLES IN EACH BOX UNLESS NOTED OTHERWISE BELOW IN THE NOTES. PROVIDE COVER PLATES WITH MULTIPLE JACKS. PROVIDE (1) BLUE CABLE, (1) WHITE CABLE, & (1) GRAY CABLE.
 - D. ALL DATA JUNCTION BOXES SHALL HAVE A 1-1/4" CONDUIT STUBBED ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION.
 - E. ALL CAMERA DATA CABLES SHALL BE GREEN. ALL WIFI DATA CABLES SHALL BE YELLOW. ALL SINGLE DROPS SHALL BE BLUE INCLUDING TV DISPLAYS, DUCT DETECTORS, FACP, ETC.
 - F. CONTRACTOR IS TO PROVIDE EQUIPMENT SHOWN ON THIS PLAN AND LISTED ON "CONTRACTOR PROVIDED EQUIPMENT" ON SHEET E0.2. COORDINATE WITH OWNER ON THIS EQUIPMENT PRIOR TO PURCHASE.
- SYSTEMS PLAN KEY NOTES:**
- 1. PROVIDE (4) 4" X 8" X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD PAINTED GRAY FOR TELEPHONE SYSTEM. CONNECT #6 AWG, INSULATED, STRANDED. COPPER GROUND WIRE FROM TELEPHONE SYSTEM TO GROUND BUS AT MAIN PANEL.
 - 2. ROUTE (4) 4" PVC CONDUITS BELOW GRADE TO PROPERTY LINE. PROVIDE PULL STRING, AND CAP BOTH ENDS. COORDINATE WITH PROVIDER AND OWNER ON EXACT REQUIREMENTS.
 - 3. PROVIDE CHATSWORTH COPPER GROUND BAR, 4" X 20" X 1/4", PART NUMBER 40158-020 WITH ISOLATION STANDOFFS AND LUG KIT. MOUNT TO WALL 12" ABOVE FINISHED FLOOR. SEE GROUNDING DETAILS ON SHEET E0.2 FOR FURTHER REQUIREMENTS.
 - 4. PROVIDE CAMERA BACKBOX, RECESSED AND 1-1/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING FOR CAMERAS. COORDINATE WITH OWNER ON REQUIREMENTS AND MOUNTING LOCATION. PROVIDE AND TERMINATE ONE (1) CAT6 CABLE TO EACH CAMERA FROM NEW DATA RACK. SEE CONTRACTOR PROVIDED EQUIPMENT FOR SPECIFICATIONS.
 - 5. PROVIDE 2" CONDUIT BETWEEN IT ROOM AND TRAINING ROOM AND STUB OUT IN ACCESSIBLE LOCATION ABOVE CEILING FOR FUTURE DATA CABLING.
 - 6. PROVIDE JUNCTION BOX ABOVE CEILING FOR NETWORK ACCESS POINT FOR WIFI, DATA DROPS, AND AUDIO VISUAL CABLING. PROVIDE 1" CONDUIT BACK TO IT ROOM. SEE SPECIFICATION 16120 FOR WIFI DEVICE REQUIREMENTS AND PROVIDE ALL NECESSARY EQUIPMENT.
 - 7. PROVIDE AND INSTALL CARD ACCESS READER AND CONNECTION TO ELECTRIC STRIKE DOOR LOCK. COORDINATE WITH ARCHITECTURAL PLANS ON REQUIREMENTS. PROVIDE RACEWAY, JUNCTION BOXES, DEVICES, CIRCUIT R2-21 FOR 120V POWER, AND ALL NECESSARY EQUIPMENT REQUIRED FOR OPERATION. SEE SPEC SECTION 28-10-00 FOR CARD ACCESS REQUIREMENTS.
 - 8. PROVIDE GLASS BREAKER SENSORS AT ALL WINDOWS AND STOREFRONT AT ENTRIES. INTEGRATE SENSORS INTO SECURITY SYSTEM.
 - 9. LOCATION OF 6160 KEYPAD FOR SECURITY SYSTEM. PROVIDE ADDITIONAL CHIME PROGRAMMED TO ANNUNCIATE WHEN FRONT OF REAR DOOR IS OPENED. INTEGRATE DOOR SENSORS, CHIME, AND KEYPAD INTO HONEYWELL VISTA-20SE SECURITY SYSTEM. COORDINATE WITH OWNER ON LOCATION OF CHIME AND DESIRED OPERATION.
 - 10. PROVIDE 4" JUNCTION BOX BENEATH DESK WITH SINGLE-GANG MUD RING FOR PANIC BUTTON. PROVIDE 3/4" CONDUIT STUBBED ABOVE CEILING IN ACCESSIBLE LOCATION FROM JUNCTION BOX.
 - 11. "FD" INDICATES FIRE DAMPER THROUGH 1-HOUR WALLS. INTEGRATE DAMPERS INTO FIRE ALARM CONTROL SYSTEM.


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**REGISTERED PROFESSIONAL ENGINEER**
ANDREW N. JUVETT
6/30/23

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ELECTRICAL
SYSTEMS PLAN

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E4.0

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