

# IRON WORKERS LOCAL 399

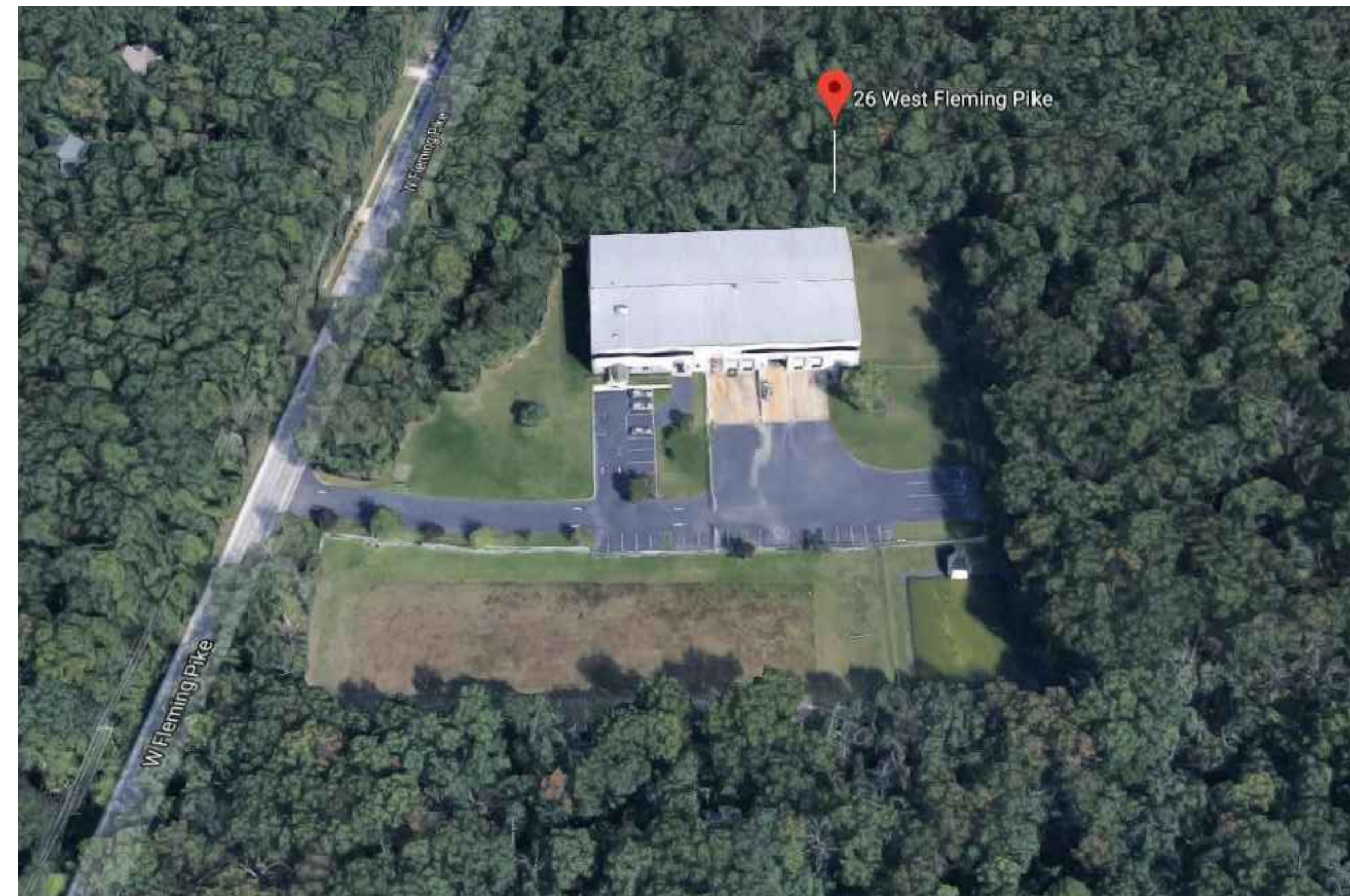
## New Welding Training Facility

**26 EAST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037**

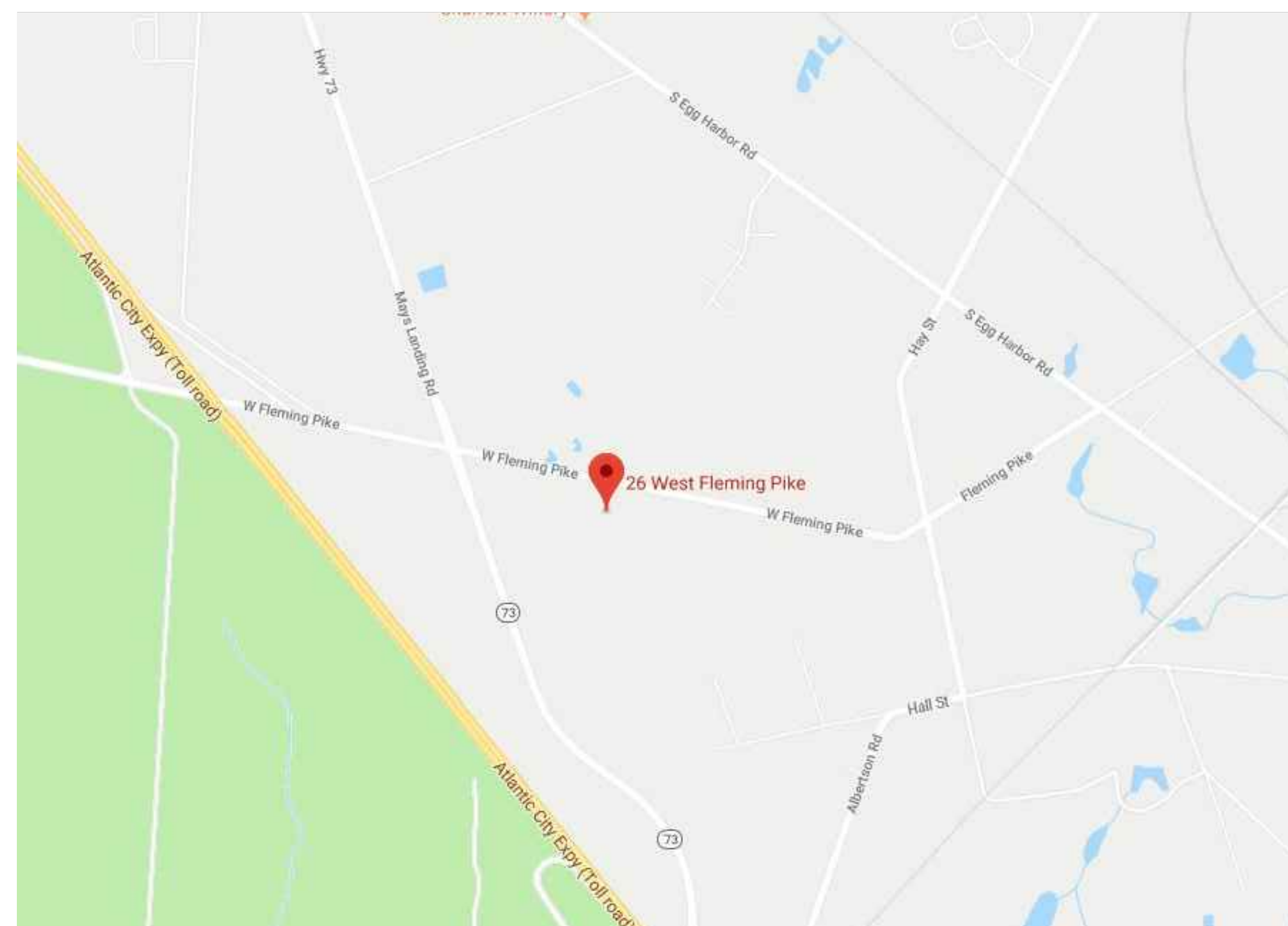
PROJECT NUMBER: 19-13  
TYPE OF CONSTRUCTION: 2B  
USE GROUP: B



**EXISTING BUILDING ELEVATION**



**AERIAL VIEW**



**LOCATION MAP**

**STRUCTURAL ENGINEER:**

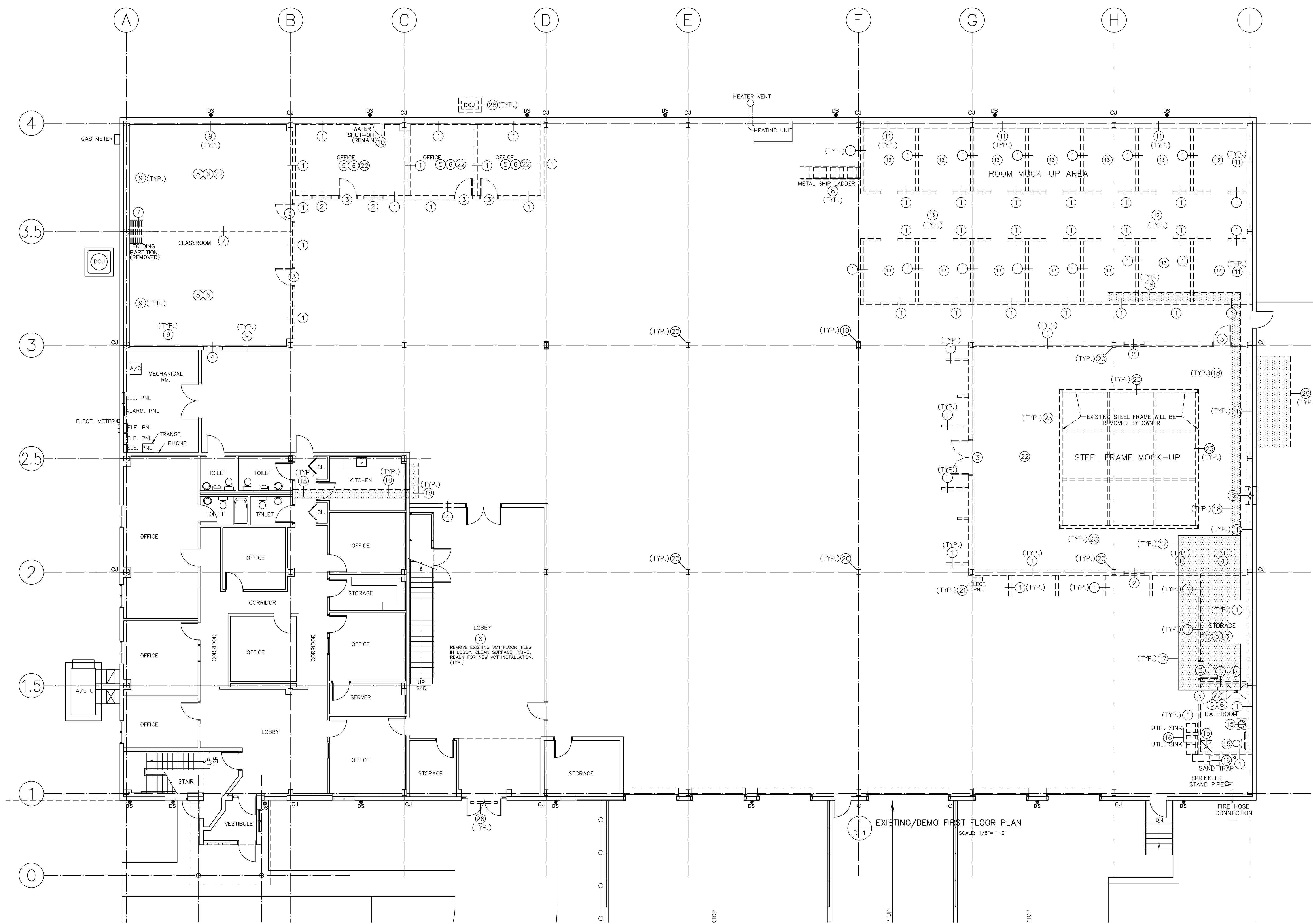
ORNDORF AND ASSOCIATES  
8600 WEST CHESTER PIKE, SUITE 201, UPPER DARBY, PA 19083  
PHONE: 610-896-4500 FAX: 610-896-4503

**MECHANICAL, PLUMBING,  
ELECTRICAL ENGINEER:**

MULHERN CONSULTING ENGINEERS  
321 SOUTH YORK ROAD, HATBORO, PA 19040  
PHONE: 215-293-9900 FAX: 215-441-5984



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EXISTING/DEMO FIRST FLOOR PLAN  
SCALE: 1/8"=1'-0"

**DEMOLITION NOTES LIST:**

- 1 REMOVE EXISTING WALLS WHERE INDICATED TO SUIT NEW LAYOUT. PATCH FLOOR & WALLS LEVEL w/MATERIAL TO MATCH ADJACENT, (TYP.)
- 2 REMOVE EXISTING FIXED HOLLOW METAL WINDOW FRAME & GLAZING (TYP.)
- 3 REMOVE EXISTING DOOR & FRAME IN ITS ENTIRETY. TURN OVER ALL HARDWARE TO OWNER, TYP.
- 4 SAW CUT EXISTING METAL STUD WALL OPENING, INSTALL DOUBLE STUD JAMBS & NEW METAL STUD BOX HEADER. PROVIDE NEW HOLLOW METAL DOOR FRAME & DOOR. SEE DOOR SCHEDULE FOR BALANCE OF INFORMATION.
- 5 TEMPORARY SECURE EXISTING HVAC DUCT, CEILING DIFFUSERS, HEAT DETECTORS, SPRINKLER HEADS/PIPES, ETC., REMOVE EXISTING LIGHTING FIXTURES, CEILING GRIDS, CEILING TILES.
- 6 REMOVE EXISTING VCT FLOOR TILES & GLUE. PATCH CONCRETE FLOOR SMOOTH, CLEAN FLOOR, PRIME FLOOR FOR FUTURE NEW FLOOR FINISH INSTALLATION. (TYP.)
- 7 REMOVE EXISTING FOLDING PARTITIONS SYSTEM, CEILING GUIDING TRACK, & HANGERS SUPPORT PARTITIONS ABOVE. (TYP.)
- 8 REMOVE MOVABLE METAL SHIP LADDER, RETURN METAL SHIP LADDER TO OWNER (TYP.)
- 9 EXISTING METAL STUD WALL W/ GYPSUM BOARD TO REMAIN. (TYP.)
- 10 REMOVE EXISTING METAL ACCESS PANEL. PROVIDE NEW 14"x14" HINGE METAL ACCESS PANEL FOR WATER PIPE SHUT-OFF VALVE ACCESS ON NEW STUD WALL. FIELD VERIFY EXACT LOCATION. (TYP.)
- 11 INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. (SCORE PATCHED AREA TO MATCH EXISTING COURSING). PRIME & PAINT PER MANUFACTURERS SPECIFICATIONS. SEE FINISH SCHEDULE FOR BALANCE OF INFORMATION AND ARCHITECTURALS FOR NEW LAYOUT.
- 12 REMOVE EXISTING EXHAUST FAN, SEAL-UP OPENING WITH METAL STUD WALL. (TYP.)
- 13 REMOVE WOOD FLOOR STRUCTURE, PLYWOOD DECK, JOISTS & GYPSUM BOARD CEILING ABOVE. (TYP.)
- 14 REMOVE EXISTING SHOWER STALL & BASE, CAP WATER LINE, CAP FLOOR DRAIN. (TYP.)
- 15 REMOVE WATER CLOSET, LAVATORY, FLOOR MUD SINK, ETC., CAP WATER LINE, CAP DRAIN PIPE. (TYP.)
- 16 REMOVE UTILITY SINKS, SAND TRAP, VENT PIPE, ETC., CAP WATER LINE, CAP DRAIN PIPE. (TYP.)
- 17 REMOVE EXISTING CONCRETE SLAB, RE-POUR NEW CONCRETE SLAB FOR 3" WET-SET CERAMIC TILE BASE AT TOILETS/SHOWERS AREA. (TYP.)
- 18 SAW-CUT EXISTING CONCRETE SLAB, INSTALL SANITARY LINE, RE-POUR NEW CONCRETE SLAB WITH EXISTING SLAB. PROVIDE NEW FLOOR FINISH TO MATCH EXISTING FINISH. (TYP.)
- 19 REMOVE EXISTING GYPSUM COLUMN COVER, EXISTING STEEL COLUMN TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- 20 EXISTING COLUMN TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- 21 ELECTRICAL CONTRACTOR TO DISCONNECT, & REMOVE EXISTING ELECTRICAL PANEL PRIOR TO G.C. START DEMOLITION WORK. SEE ELECTRICAL DRAWINGS.
- 22 ELECTRICAL CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE LIGHT FIXTURES, TV CAMERAS, SWITCHES, FIRE ALARM, WALL OUTLETS, POWER POLES, EMERGENCY POWER SHUT OFFS, ELECTRICAL PANELS, ETC. AND ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO ELECTRICAL DWGS. RELOCATE & RECONNECT ELECTRICAL ITEMS PER OWNERS' DIRECTION AFTER RENOVATION WORK IS DONE (IF REQUIRED).
- 23 EXISTING FREE STANDING EXPOSED STEEL FRAMING STRUCTURE MOCK-UP WILL BE REMOVED BY OWNER AFTER SURROUNDING ROOM WALLS WERE DEMOLISHED. COORDINATE SCHEDULE WITH OWNER. (TYP.)
- 24 REMOVE EXISTING 8" METAL STUD FLOOR JOIST & 3/4" PLYWOOD DECK. (TYP.)
- 25 REMOVE EXISTING DAMAGED METAL SIDING 5'-6"HX5'-0"W, REPLACE WITH NEW METAL SIDING TO MATCH EXISTING BULTER METAL SIDING. (TYP.)
- 26 REMOVE EXISTING OLD SIGN/LOGO ON FRONT BUILDING ELEVATION ABOVE WAREHOUSE DOUBLE DOOR ENTRANCE. REPAIR METAL SIDING & SEALED MOUNTING SCREW HOLE. (TYP.)
- 27 SAW-CUT EXISTING VERTICAL METAL SIDING, INSTALL DOUBLE METAL STUDS TO FRAME OPENING, PROVIDE ALUM. SLEEVES FLASHING, INSTALL DUCT/LOUVER THROUGH EXISTING METAL SIDING. CAULK ALL GAP AROUND DUCT & THRU WALL SLEEVES. SEE DETAILS 3/A-9 OR 5/A-9 (TYP.)
- 28 CONTRACTOR REMOVE EXISTING CONDENSING UNIT & PIPES. SEAL-UP PIPE THRU-WALL HOLES. SEE MECHANICAL DRAWINGS. (TYP.)
- 29 CONTRACTOR REMOVE EXISTING DRIVE WAY ASPHALT PAVING. PROVIDE NEW CONCRETE SLAB WITH TURNDOWN SLAB EDGE. (TYP.)

	EXISTING WALLS & ITEM TO REMAIN
	EXISTING WALLS & ITEM TO BE REMOVED
	SAW-CUT & REMOVE EXISTING CONCRETE SLAB AREA
	DEMOLITION NOTES, SEE DEMOLITION NOTES LIST

**GENERAL DEMOLITION/ RENOVATION NOTES:**

THE GENERAL CONTRACTOR SHALL REMOVE ALL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO DOORS AND FRAMES, WINDOWS AND FRAMES, CEILING SYSTEM, CEILING MOUNTED ITEM, PARTITIONS, FLOOR FINISH, WALL MOUNTED ITEM, OUTLETS, SWITCHES, TACK STRIPS, SHELVING/ CASEWORK AND TOILET PARTITIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ARCHITECT FOR FURTHER CLARIFICATIONS.

THE PLUMBING CONTRACTOR SHALL DISCONNECT AND CAP ALL PLUMBING ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, SHOWERS AND CONTROLS, SUPPLY LINES FOR HOT AND COLD WATER, EYE WASH STATIONS, WASH BASINS, LIMITED SPRINKLER SYSTEM AND AIR COMPRESSOR SUPPLY LINES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND CAP ALL ELECTRICAL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO ELECTRICAL PANELS, LIGHT FIXTURES, SWITCHES, WALL OUTLETS, WIRING/ CONDUIT AND TELEPHONE SYSTEMS. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ELECTRICAL ENGINEER FOR FURTHER CLARIFICATIONS.

THE H.V.A.C. CONTRACTOR SHALL DISCONNECT AND CAP ALL H.V.A.C. ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.

ALL REMOVED ITEMS, IF REQUIRED TO BE SALVAGED BY OWNER, SHALL BE REMOVED BY OWNER BEFORE DEMOLITION WORK STARTS.

CONTRACTOR TO NOTIFY OWNER TWO WEEKS PRIOR TO REMOVAL OF CONTROL PANELS FOR ROOFTOP UNITS, CONDENSING UNITS, SHADES, U.V CONTROLS, ETC...TO BE SALVAGED, TYP.

**G.C. NOTES:**  
1. COMPLY WITH LEAD PAINT SAFETY REMOVAL METHOD. SEE SPEC. SECTION 17000.  
2. REPAINT ALL EXPOSED STEEL, TYPICAL. SEE SPECS.  
3. RE-CAULK ALL JOINTS DISTURBED BY CONSTRUCTION, TYPICAL.

**NOTE:**  
SEE SPECIFICATION SECTION 17000 AND ASBESTOS ABATEMENT DRAWINGS FOR SCOPE OF ALL ASBESTOS ABATEMENT WORK, TYP.

**NOTE:**  
AFTER THE REMOVAL OF ANY WALL MOUNTED ITEMS IN A RENOVATED SPACE, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FILL ANY VOIDS OR HOLES IN THE WALLS TO A SMOOTH & LEVEL FINISH w/MATERIALS TO MATCH ADJACENT. IF ADJACENT AREA IS MASONRY, SCORE PATCHED AREA TO MATCH EXISTING COURSING. SEE ROOM FINISH SCHEDULE FOR FINISHES.

**NOTE:**  
DURING CONSTRUCTION/RENOVATION, IF ADDITIONAL ASBESTOS PCB OR LEAD IS DETECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER ASBESTOS CONSULTANT TO VERIFY WHERE ALL HAZARDOUS ASBESTOS MATERIAL MAY BE PRESENT. ALL AFFECTED ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED BY ABATEMENT SUBCONTRACTOR, UNLESS STATED OTHERWISE ON THE ASBESTOS ABATEMENT DRAWINGS. ALL IDENTIFICATION TO BE DONE WITHIN 45 DAYS OF NOTICE TO PROCEED SO THIS CONTRACTOR'S WORK WILL NOT BE AFFECTED.

**NOTE:**  
WHEN THE REMOVAL OF ANY HVAC, PLUMBING AND/OR ELECTRICAL EQUIPMENT OCCURS IN AN EXISTING MASONRY WALL, INTERIOR OR EXTERIOR, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFILL OPENING WITH MATERIALS THAT MATCH ADJACENT OPENINGS. (COORDINATE ALL OPENINGS w/HVAC DRAWINGS PRIOR TO INFILL.

SEE SITE, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES & DETAILS.

**GArrison Architects**  
 A Professional Corporation of Architects and Planners  
 713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-8200

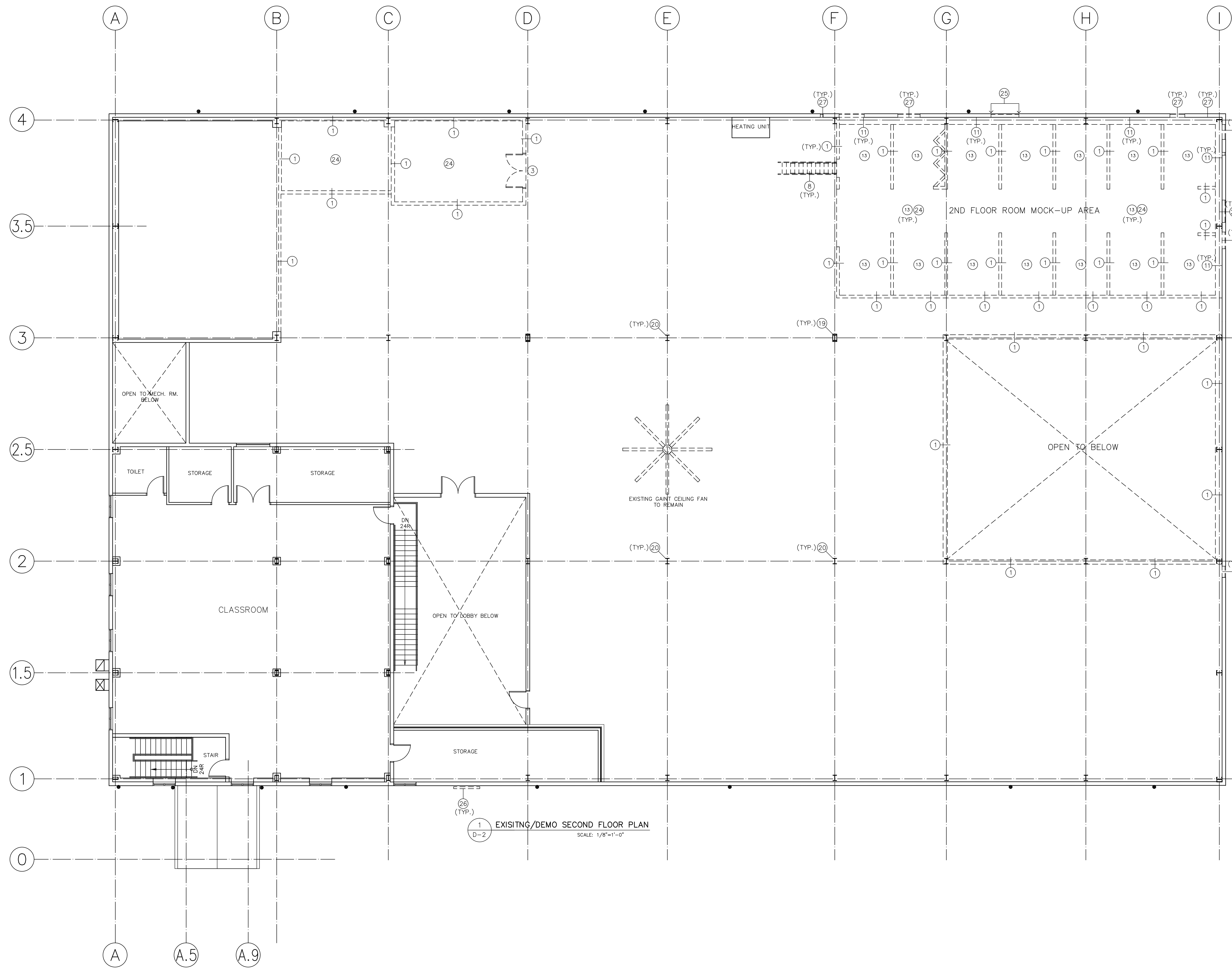
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 HAMMONTON, NEW JERSEY 08037

<b>REVISIONS</b>	
a.	d.
b.	e.
c.	f.

Project No. 19-13  
 Date: 6-25-19  
 Scale: AS NOTED

**EXISTING-DEMO FIRST FLOOR PLAN**  
**D-1**

CONTRACTOR SHALL VERIFY ALL DEMOLITION NOTES AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DRAWINGS AND CONDITIONS SHOWN BY THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DEMOLITION NOTES AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DRAWINGS AND CONDITIONS SHOWN BY THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DEMOLITION NOTES AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DRAWINGS AND CONDITIONS SHOWN BY THESE DRAWINGS.



1 EXISTING/DEMO SECOND FLOOR PLAN  
SCALE: 1/8"=1'-0"

SECOND FLOOR PLAN  
±3,512 SQ. FT.

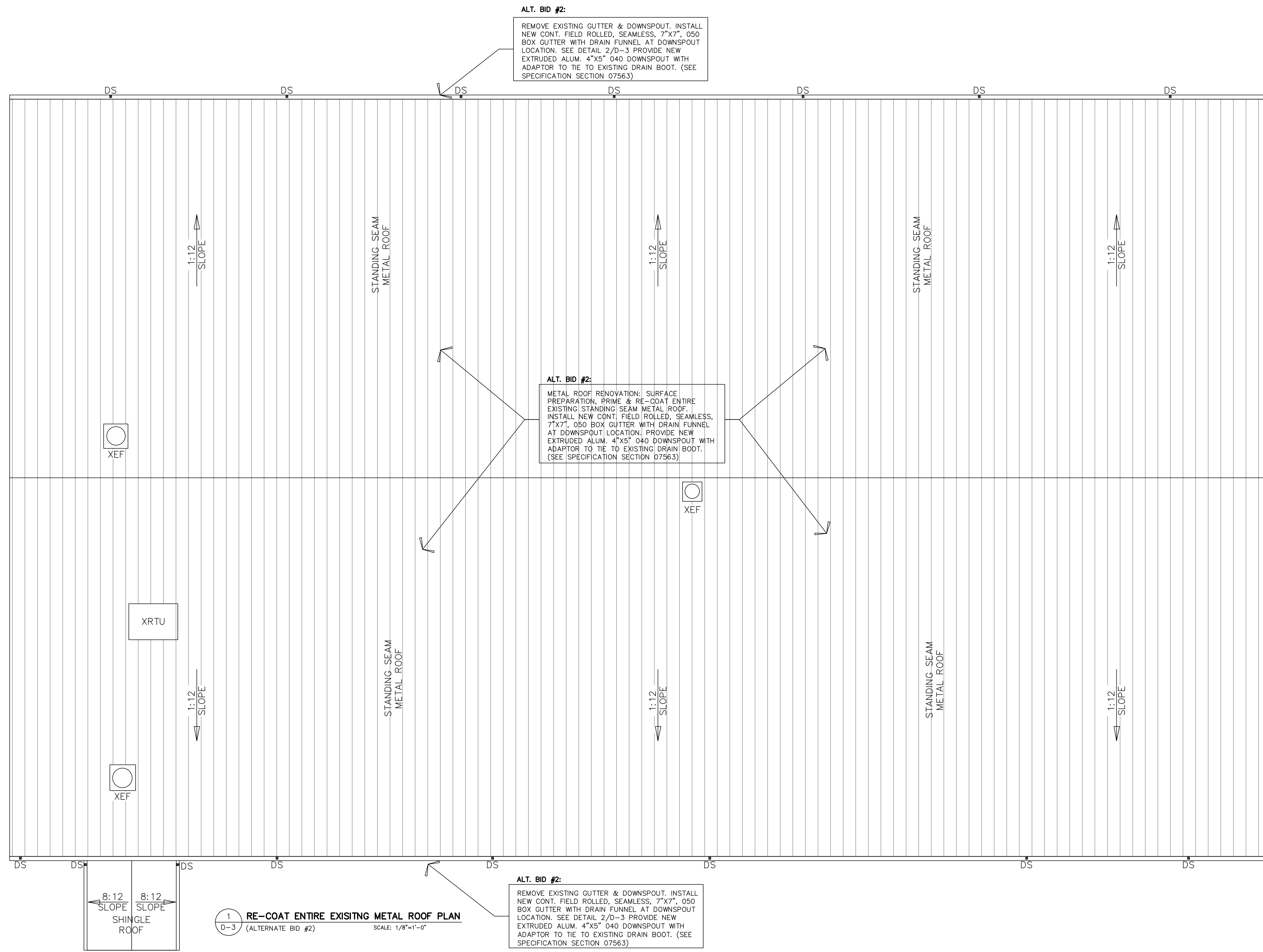
**DEMOLITION NOTES LIST:**

- 1 REMOVE EXISTING WALLS WHERE INDICATED TO SUIT NEW LAYOUT. PATCH FLOOR & WALLS LEVEL w/MATERIAL TO MATCH ADJACENT. (TYP.)
- 2 REMOVE EXISTING FIXED HOLLOW METAL WINDOW FRAME & GLAZING (TYP.)
- 3 REMOVE EXISTING DOOR & FRAME IN ITS ENTIRETY. TURN OVER ALL HARDWARE TO OWNER, TYP.
- 4 SAW CUT EXISTING METAL STUD WALL OPENING, INSTALL DOUBLE STUD JAMBS & NEW METAL STUD BOX HEADER. PROVIDE NEW HOLLOW METAL DOOR FRAME & DOOR. SEE DOOR SCHEDULE FOR BALANCE OF INFORMATION.
- 5 TEMPORARY SECURE EXISTING HVAC DUCT, CEILING DIFFUSERS, HEAT DETECTORS, SPRINKLER HEADS/PIPES, ETC., REMOVE EXISTING LIGHTING FIXTURES, CEILING GRIDS, CEILING TILES.
- 6 REMOVE EXISTING VCT FLOOR TILES & GLUE. PATCH CONCRETE FLOOR SMOOTH, CLEAN FLOOR, PRIME FLOOR FOR FUTURE NEW FLOOR FINISH INSTALLATION. (TYP.)
- 7 REMOVE EXISTING FOLDING PARTITIONS SYSTEM, CEILING GUIDING TRACK, & HANGERS SUPPORT PARTITIONS ABOVE. (TYP.)
- 8 REMOVE MOVABLE METAL SHIP LADDER, RETURN METAL SHIP LADDER TO OWNER (TYP.)
- 9 EXISTING METAL STUD WALL W/ GYPSUM BOARD TO REMAIN. (TYP.)
- 10 REMOVE EXISTING METAL ACCESS PANEL. PROVIDE NEW 14"x14" HINGE METAL ACCESS PANEL FOR WATER PIPE SHUT-OFF VALVE ACCESS ON NEW STUD WALL. FIELD VERIFY EXACT LOCATION. (TYP.)
- 11 INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. (SCORE PATCHED AREA TO MATCH EXISTING COURSING). PRIME & PAINT PER MANUFACTURERS SPECIFICATIONS. SEE FINISH SCHEDULE FOR BALANCE OF INFORMATION AND ARCHITECTURALS FOR NEW LAYOUT.
- 12 REMOVE EXISTING EXHAUST FAN, SEAL-UP OPENING WITH METAL STUD WALL. (TYP.)
- 13 REMOVE WOOD FLOOR STRUCTURE, PLYWOOD DECK, JOISTS & GYPSUM BOARD CEILING ABOVE. (TYP.)
- 14 REMOVE EXISTING SHOWER STALL & BASE, CAP WATER LINE, CAP FLOOR DRAIN. (TYP.)
- 15 REMOVE WATER CLOSET, LAVATORY, FLOOR MUD SINK, ETC., CAP WATER LINE, CAP DRAIN PIPE. (TYP.)
- 16 REMOVE UTILITY SINKS, SAND TRAP, VENT PIPE, ETC., CAP WATER LINE, CAP DRAIN PIPE. (TYP.)
- 17 REMOVE EXISTING CONCRETE SLAB, RE-POUR NEW CONCRETE SLAB FOR 3" WET-SET CERAMIC TILE BASE AT TOILETS/SHOWERS AREA. (TYP.)
- 18 SAW-CUT EXISTING CONCRETE SLAB, INSTALL SANITARY LINE, RE-POUR NEW CONCRETE SLAB FLUSH WITH EXISTING SLAB. PROVIDE NEW FLOOR FINISH TO MATCH EXISTING FINISH. (TYP.)
- 19 REMOVE EXISTING GYPSUM COLUMN COVER, EXISTING STEEL COLUMN TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- 20 EXISTING COLUMN TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- 21 ELECTRICAL CONTRACTOR TO DISCONNECT, & REMOVE EXISTING ELECTRICAL PANEL PRIOR TO G.C. START DEMOLITION WORK. SEE ELECTRICAL DRAWINGS.
- 22 ELECTRICAL CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE LIGHT FIXTURES, TV CAMERAS, SWITCHES, FIRE ALARM, WALL OUTLETS, POWER POLES, EMERGENCY POWER SHUT OFFS, ELECTRICAL PANELS, ETC. AND ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO ELECTRICAL DWGS. RELOCATE & RECONNECT ELECTRICAL ITEMS PER OWNERS' DIRECTION AFTER RENOVATION WORK IS DONE (IF REQUIRED).
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- 24 REMOVE EXISTING 8" METAL STUD FLOOR JOIST & 3/4" PLYWOOD DECK. (TYP.)
- 25 REMOVE EXISTING DAMAGED METAL SIDING 5'-6"HX5'-0"W, REPLACE WITH NEW METAL SIDING TO MATCH EXISTING BULTER METAL SIDING. (TYP.)
- 26 REMOVE EXISTING OLD SIGN/LOGO ON FRONT BUILDING ELEVATION ABOVE WAREHOUSE DOUBLE DOOR ENTRANCE. REPAIR METAL SIDING & SEALED MOUNTING SCREW HOLE. (TYP.)
- 27 SAW-CUT EXISTING VERTICAL METAL SIDING, INSTALL DOUBLE METAL STUDS TO FRAME OPENING, PROVIDE ALUM. SLEEVES FLASHING, INSTALL DUCT/LOUVER THROUGH EXISTING METAL SIDING. CAULK ALL GAP AROUND DUCT & THRU WALL SLEEVES. SEE DETAILS 3/A-9 OR 5/A-9 (TYP.)
- 28 CONTRACTOR REMOVE EXISTING CONDENSING UNIT & PIPES. SEAL-UP PIPE THRU-WALL HOLES. SEE MECHANICAL DRAWINGS. (TYP.)
- 29 CONTRACTOR REMOVE EXISTING DRIVE WAY ASPHALT PAVING. PROVIDE NEW CONCRETE SLAB WITH TURNDOWN SLAB EDGE. (TYP.)

	EXISTING WALLS & ITEM TO REMAIN
	EXISTING WALLS & ITEM TO BE REMOVED
	SAW-CUT & REMOVE EXISTING CONCRETE SLAB AREA
①	DEMOLITION NOTES, SEE DEMOLITION NOTES LIST

REVISIONS	
a.	d.
b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
Scale: 1/8"=1'-0"

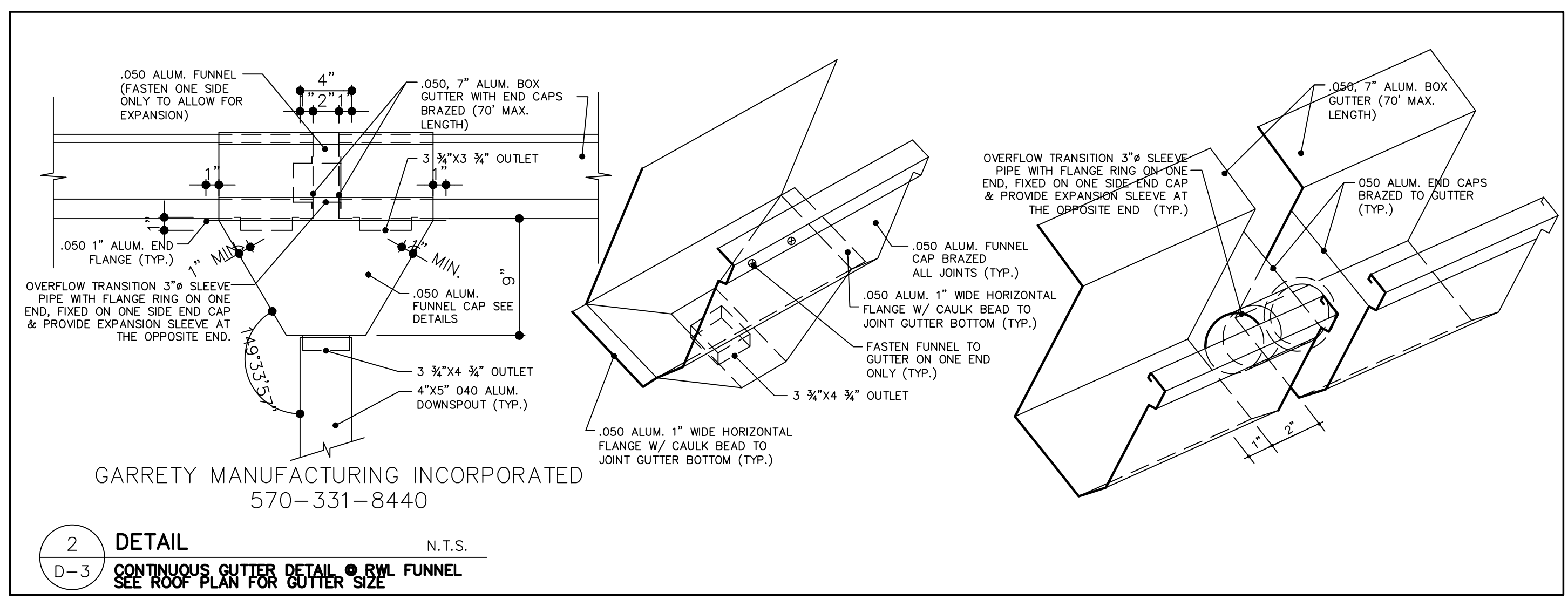


ALT. BID #2:  
 REMOVE EXISTING GUTTER & DOWNSPOUT. INSTALL NEW CONT. FIELD ROLLED, SEAMLESS, 7'X7', .050 BOX GUTTER WITH DRAIN FUNNEL AT DOWNSPOUT LOCATION; SEE DETAIL 2/D-3 PROVIDE NEW EXTRUDED ALUM. 4"X5" .040 DOWNSPOUT WITH ADAPTOR TO TIE TO EXISTING DRAIN BOOT. (SEE SPECIFICATION SECTION 07563)

ALT. BID #2:  
 METAL ROOF RENOVATION: SURFACE PREPARATION, PRIME & RE-COAT ENTIRE EXISTING STANDING SEAM METAL ROOF. INSTALL NEW CONT. FIELD ROLLED, SEAMLESS, 7'X7', .050 BOX GUTTER WITH DRAIN FUNNEL AT DOWNSPOUT LOCATION; PROVIDE NEW EXTRUDED ALUM. 4"X5" .040 DOWNSPOUT WITH ADAPTOR TO TIE TO EXISTING DRAIN BOOT. (SEE SPECIFICATION SECTION 07563)

ALT. BID #2:  
 REMOVE EXISTING GUTTER & DOWNSPOUT. INSTALL NEW CONT. FIELD ROLLED, SEAMLESS, 7'X7', .050 BOX GUTTER WITH DRAIN FUNNEL AT DOWNSPOUT LOCATION; SEE DETAIL 2/D-3 PROVIDE NEW EXTRUDED ALUM. 4"X5" .040 DOWNSPOUT WITH ADAPTOR TO TIE TO EXISTING DRAIN BOOT. (SEE SPECIFICATION SECTION 07563)

1 RE-COAT ENTIRE EXISTING METAL ROOF PLAN  
 (ALTERNATE BID #2) SCALE: 1/8"=1'-0"



GARRETY MANUFACTURING INCORPORATED  
 570-331-8440

2 DETAIL N.T.S.  
 (D-3) CONTINUOUS GUTTER DETAIL @ 8\"/>

**GARRETY ARCHITECTS**  
 A Professional Corporation of Architects and Planners  
 713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-5200

**IRON WORKERS LOCAL 399**  
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**RE-COATING EXISTING ROOF PLAN**  
**D-3**

NEW JERSEY MODEL CODE ADOPTIONS & STANDARDS	
CODE:	ADOPTION DATE:
BUILDING SUBCODE: (NJAC 5:23-3.14) INTERNATIONAL BUILDING CODE 2015, NEW JERSEY EDITION	09-21-2015
PLUMBING SUBCODE: (NJAC 5:23-3.15) NATIONAL STANDARD PLUMBING CODE 2015	01-04-2016
ELECTRICAL SUBCODE: (NJAC 5:23-3.16) NATIONAL ELECTRICAL CODE (NFPA 70) 2014	09-21-2015
ENERGY SUBCODE: (NJAC 5:23-3.18) INTERNATIONAL ENERGY CONSERVATION CODE 2015 (RESIDENTIAL) ASHRAE STD. 90.1-2013 (COMMERCIAL)	09-21-2015
MECHANICAL SUBCODE: (NJAC 5:23-3.20) INTERNATIONAL MECHANICAL CODE 2015	09-21-2015
ONE-AND TWO-FAMILY DWELLING SUBCODE: (NJAC 5:23-3.21) INTERNATIONAL RESIDENTIAL CODE 2015, NEW JERSEY EDITION	09-21-2015
FUEL GAS SUBCODE: (NJAC 5:23-3.22) INTERNATIONAL FUEL GAS CODE 2015	09-21-2015
REHABILITATION SUBCODE: (NJAC 5:23-6) NJACC, SUBCHAPTER 6	
BARRIER FREE SUBCODE: (CHAPTER 11 OF IBC/2015 & NJAC 5:23-7) ICC/ANSI A117.1-2009	09-21-2015
ELEVATOR SUBCODE: (NJAC 5:23-12) AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)	09-21-2015
FIRE PROTECTION SUBCODE: INTERNATIONAL BUILDING CODE 2015, NEW JERSEY EDITION	09-21-2015
NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS - FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS	

**LEGEND**

8 1/2" = POSTED OCCUPANCY LOAD. LOADS FOR EVERY ROOM SHALL BE POSTED WITH AN APPROVED PLACARD DESIGNATING THE MAXIMUM OCCUPANCY LOAD. UNIFORM CONSTRUCTION CODE 5:23-3.5(b) SEE SHEETS HA-0a, HA-0b & HA-0c FOR LOADS IN EACH ROOM.

F/R = TRUSS CONSTRUCTION IDENTIFICATION. THE EMBLEM SHALL BE OF A BRIGHT AND REFLECTIVE COLOR. THE EMBLEM SHALL BE PERMANENTLY AFFIXED TO THE LEFT OF THE MAIN ENTRANCE DOOR BETWEEN FOUR & SIX FEET ABOVE THE GROUND AND SHALL BE INSTALLED & MAINTAINED BY THE OWNER. UNIFORM CONSTRUCTION CODE 5:23-3.5(e) (REQUIRED BY N.J.A.C. 5:70-2.20)

"F" TO SIGNIFY A FLOOR WITH TRUSS CONSTRUCTION  
"R" TO SIGNIFY A ROOF WITH TRUSS CONSTRUCTION  
"F/R" TO SIGNIFY BOTH A FLOOR & ROOF WITH TRUSS CONSTRUCTION

MAIN ENTRANCE

MEANS OF EGRESS/OCCUPANT LOAD (I.B.C. 2015, NEW JERSEY EDITION, CHAPTER 10 & NJD06 6:22)

EXIT ACCESS TRAVEL DISTANCE FOR OCCUPANCY "B" (TABLE 1017.2) 300 FT. MAXIMUM (WITH AUTOMATIC SPRINKLER SYSTEM)

EGRESS WIDTHS (WITH AUTOMATIC SPRINKLER SYSTEM):  
STAIRWAYS (1005.3.1) = 0.30 IN. PER OCCUPANT  
DOORS/RAMP/CORRIDORS (1005.3.2) = 0.20 IN. PER OCCUPANT  
SINGLE 36" DOOR = 165 OCCUPANTS  
SINGLE 42" DOOR = 195 OCCUPANTS  
DOUBLE 36" DOORS = 330 OCCUPANTS

**INTERNATIONAL BUILDING CODE 2015, NEW JERSEY EDITION TABLE 601**

**FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS**

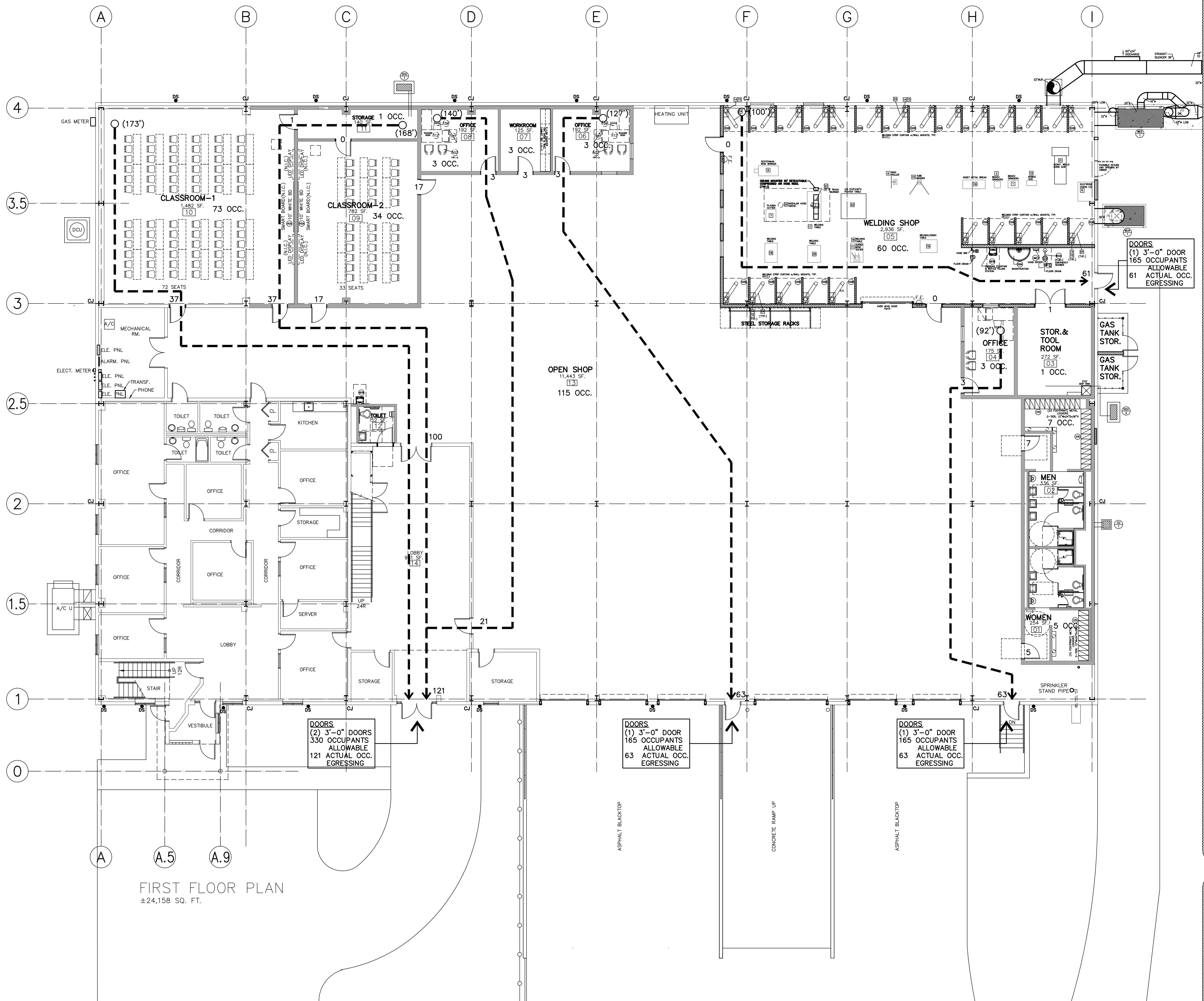
BUILDING ELEMENT:	HOURS:
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS (EXTERIOR)	0
BEARING WALLS (INTERIOR)	0
NONBEARING WALLS & PARTITIONS (EXTERIOR)	0
NONBEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

EXISTING BUILDING AREA:	SQ. FT.
FIRST FLOOR:	±24,158
SECOND FLOOR:	±3,512
TOTAL AREA:	±27,670

**KEY**

(144) = TRAVEL DISTANCE TO EXIT (FEET)

35 OCC. = OCCUPANCY LOAD OF EACH ROOM



FIRST FLOOR PLAN  
±24,158 SQ. FT.

FIRST FLOOR EGRESS PLAN  
SCALE: 1/8"=1'-0"

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**IRON WORKERS LOCAL 399**  
New Welding Training Facility  
26 EAST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

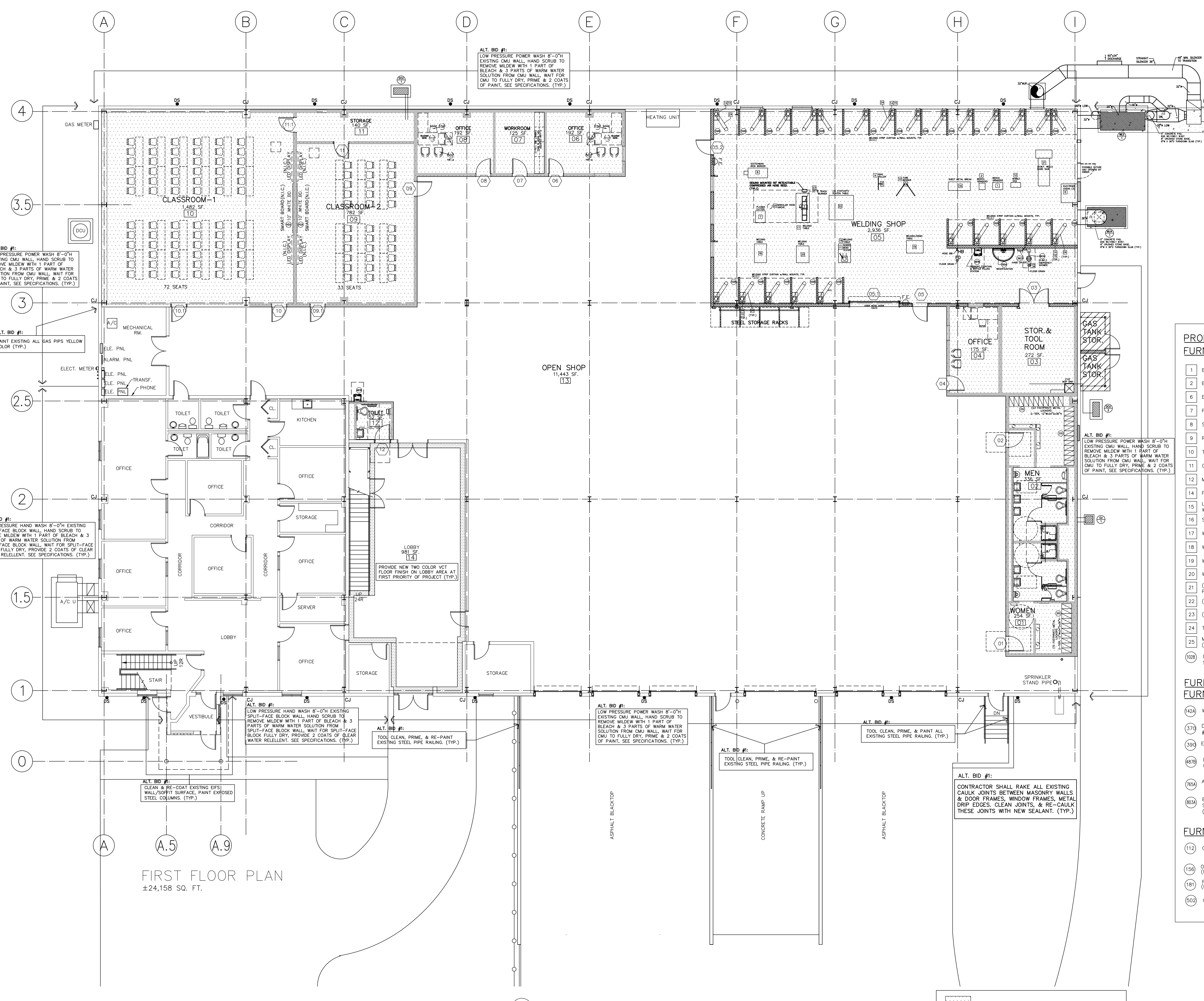
**REVISIONS**

a.	d.
b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED

**FIRST FLOOR EGRESS PLAN**

**A-0**



**PROPOSED WELDING SHOP ITEMS LIST:  
 FURNISHED BY OWNER; INSTALLED BY CONTRACTOR**

- 1 BENCH GRINDER, 30"Wx4"H, 220/440V, 3.3/1.65 AMPS, 3PH (striphase)
- 2 BENCH GRINDER, 32"Wx4"H, 20A/480V, 3PH
- 6 ELECTRODE OVEN w/STAND, 4"Wx40"Dx7"H, 120V/8.3 AMPS
- 7 PLASMA CUTTER ON CART, 2"W . . . 30A/92V-105A/122V, 30A/112V-105A/142V
- 8 SCOTCHMAN IRON WORKER, 6"Wx3'Dx6"H, 460V/7.4 AMPS
- 9 RING ROLLER, 3"Wx2'Dx4"H
- 10 TUBE BENDER, 4"Wx2'Dx4"H
- 11 GUIDED TUBE BENDER, 1"Wx2'Dx4"H, 110V
- 12 MOBILE VICE (RECTANGLE BASE), 2"Wx2'Dx4"H
- 14 FLEXTEC 350X (K4272-1) WELDER, 460V, 3 PH, 19 AMPS. BY LINCOLN ELECTRIC. (TYP.24)
- 15 LN-25X WIRE FEEDER BY LINCOLN ELECTRIC, CROSSING CABLE TIE TO FLEXTEC 350X WELDER. (TYP.24)
- 16 SHEET METAL BREAK, 5"Wx2'Dx4"H
- 17 WELDING TABLE w/PROPANE, 6"Wx3'Dx4"H
- 18 WELDING TABLE, 4"Wx2'Dx3'H
- 19 WELDING TABLE, 4"Wx3'Dx3'H
- 20 WELDING TABLE, 4"Wx3'Dx3'H
- 21 (EXISTING) W.F. WELLS HORIZONTAL BAND SAW MODEL-H-2024-1, 7.5 HP, 230/460V, 3 PH, 3"X10 X 7'-4"
- 22 (EXISTING) 5'X5'X30"H PLATEN TABLE.
- 23 (EXISTING) 5' LONG TRACK BURNER, 110V (ON TOP OF STEEL TABLE)
- 24 TELESCOPING EXTRACTION ARM & CONTROL BOX BY LINCOLN ELECTRIC OR EQUAL (TYP.24)
- 25 MODULAR HOOD: 6.6'X13.1', 380-480V/3 PH/9.4AMPS BY LINCOLN ELECTRIC OR EQUAL (TYP.)
- (028) 8"W X 0.080", 5'-0" TINTED WELDING STRIP CURTAINS w/WALL MOUNTS HANGER STEEL PIPE. (NOT IN CONTRACT, SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR)

**FURNITURE ITEMS LIST:  
 FURNISHED & INSTALLED BY CONTRACTOR**

- (42A) WHITE BOARD w/SERIES 1 MAP RAIL, #51TH FLAG HOLDER, CHALKTRAY & HOOKS, 10'-0"Wx4'-0"H, CLARIDGE MODEL# LC524 & MODEL# 51M HOOKS
- (370) DOUBLE TIER METAL LOCKER, 12"Wx24"Dx36"H w/6" LEGS, Penco, GUARDIAN SERIES, #6220M OR APPROVED EQUAL. (TYP. 33 FOOTPRINT)
- (390) ELECTRIC HAND DRYER, XLERATOR MODEL #XL-SB, 120V, SURFACE MTD, AUTOMATIC w/SOUND & SPEED CONTROL & NOISE REDUCTION NOZZLE OR APPROVED EQUAL.
- (4870) DRINKING FOUNTAIN WITH BOTTLE FILLER AND FILTER; MODEL #LZ8WSLPL (WATER COOLER WITH BOTTLE FILLING STATION AND FILTER) BY ELKAY OR APPROVED EQUAL. SEE SPECIFICATIONS
- (765A) ADA COMPLIANT WASHFOUNTAIN, 54" SEMI-CIRCULAR, TERREON, BRADLEY MODEL# TDB3104 (INFRARED) OR APPROVED EQUAL. SUPPLIED & INSTALLED BY PLUMBING CONTR.
- (603A) BARRIER-FREE SAFETY STATION w/WIDEAREA EYE/FACE WASH, WITH BOTH STAINLESS-STEEL SHOWER HEAD & COVER FOR EYE, FACE WASH BOWL, GUARDIAN MODEL #GBF1909SSH-BC (SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR)

**FURNISHED & INSTALLED BY OWNER:**

- (112) OFFICE DESK w/RIGHT SIDE PEDESTAL & CRT RUNOFF UNIT w/LOCK, 66"Wx30"Dx29"H, SERIES 1000, ADELPHIA MODEL# #SP66 w/48"Wx24"Dx26"H, CR48-6 RUNOFF UNIT.
- (156) OFFICE CHAIR, 17 3/4"-22 3/4", VIRC0 MODEL #4301 (NOT IN CONTRACT)
- (181) FILE CABINET, 2 DRAWER 29"Hx18"Wx28"D w/LOCK, ADELPHIA #412L (NOT IN CONTRACT)
- (502) GUEST SLED BASE CHAIR, 4000 SERIES, HON MODEL #H4008 (NOT IN CONTRACT)

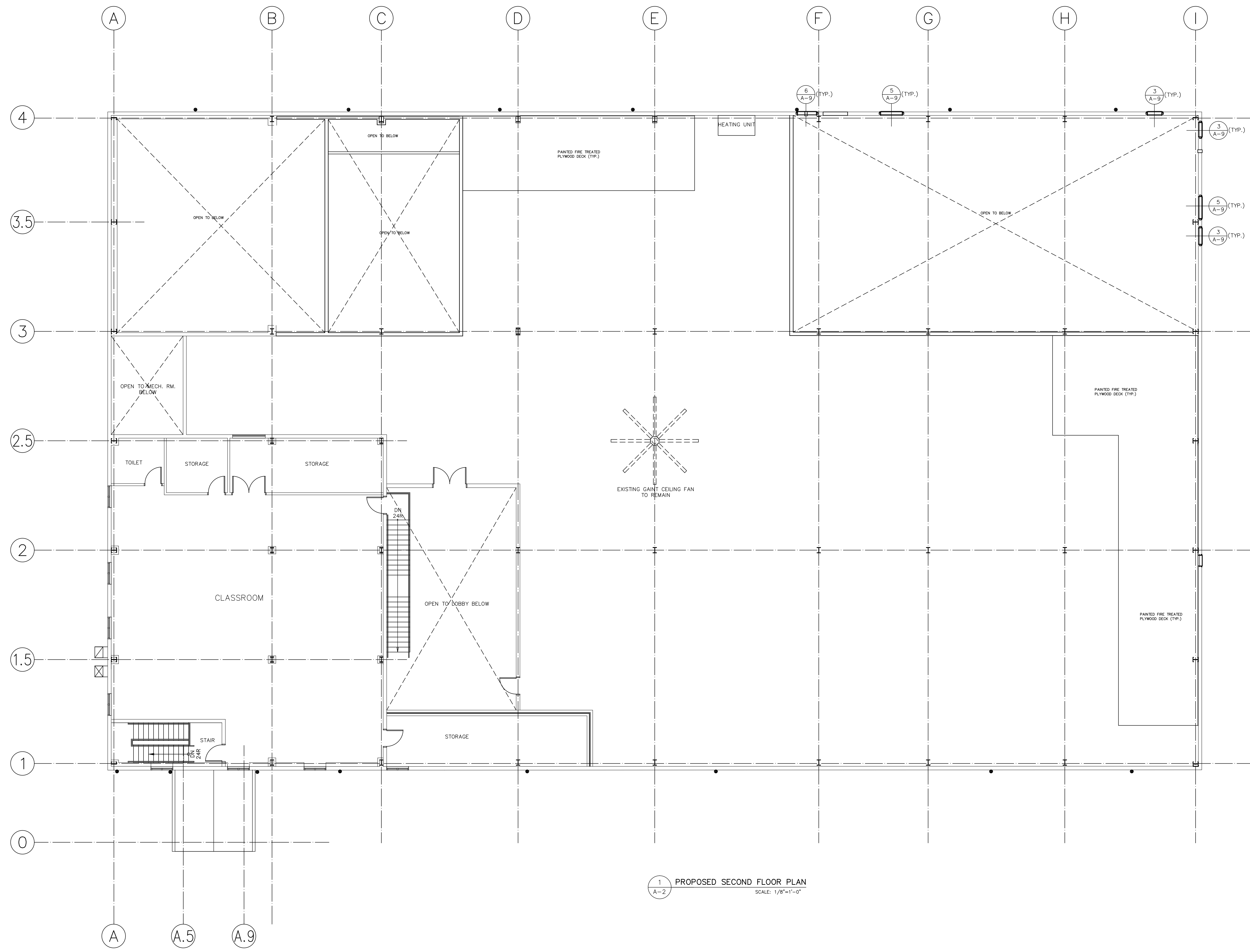
**LEGEND**

	METAL STUD PARTITION
	MASONRY WALL & PARTITION
	RENOVATION AREA
	EXISTING AREA TO REMAIN
	EXISTING AREA TO REMAIN
	EXISTING CONTROL JOINT

**PROPOSED FIRST FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

**REVISIONS**

a.	d.
b.	e.
c.	f.



SECOND FLOOR PLAN  
±3,512 SQ. FT.

1  
A-2 PROPOSED SECOND FLOOR PLAN  
SCALE: 1/8"=1'-0"

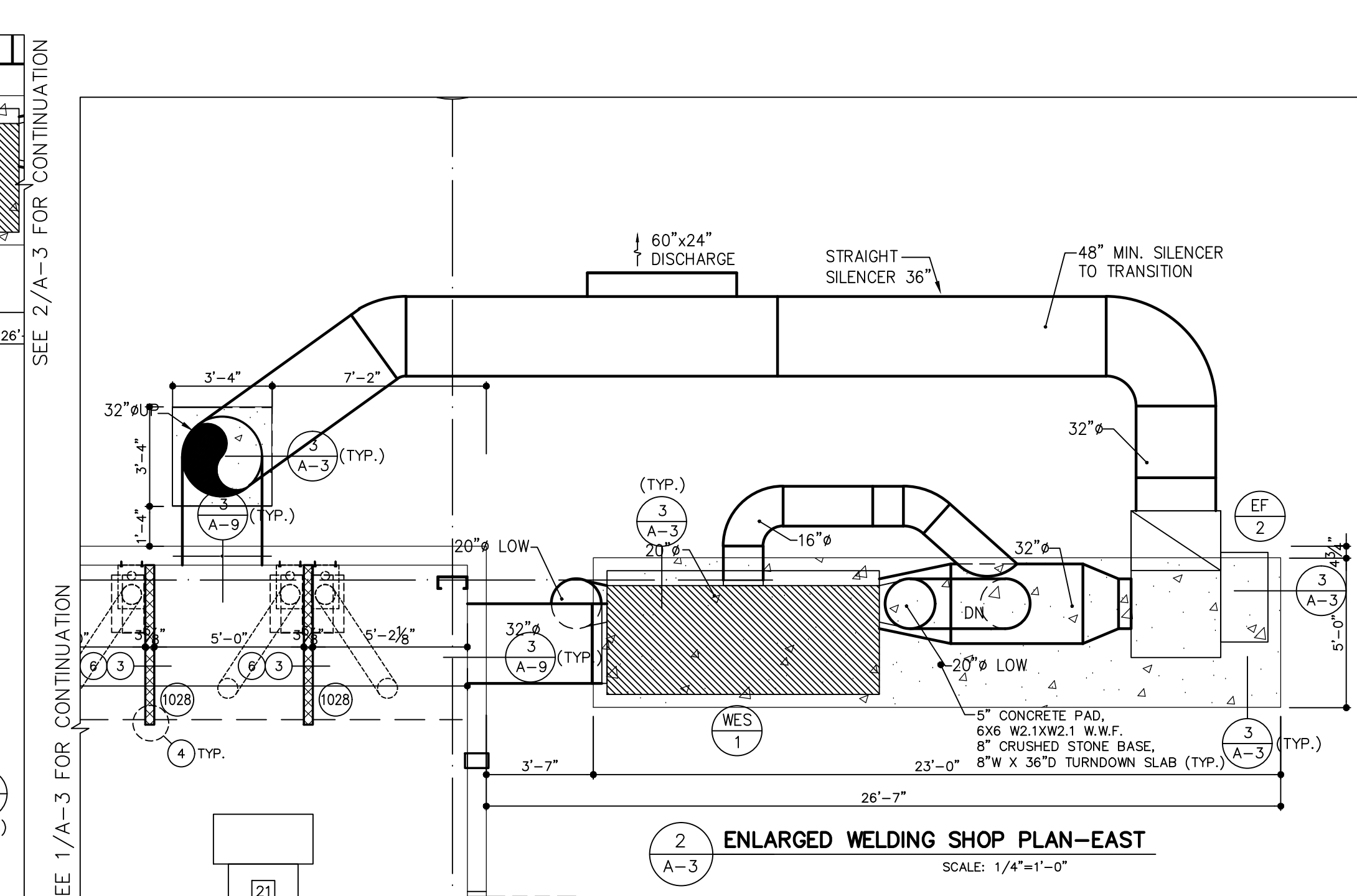
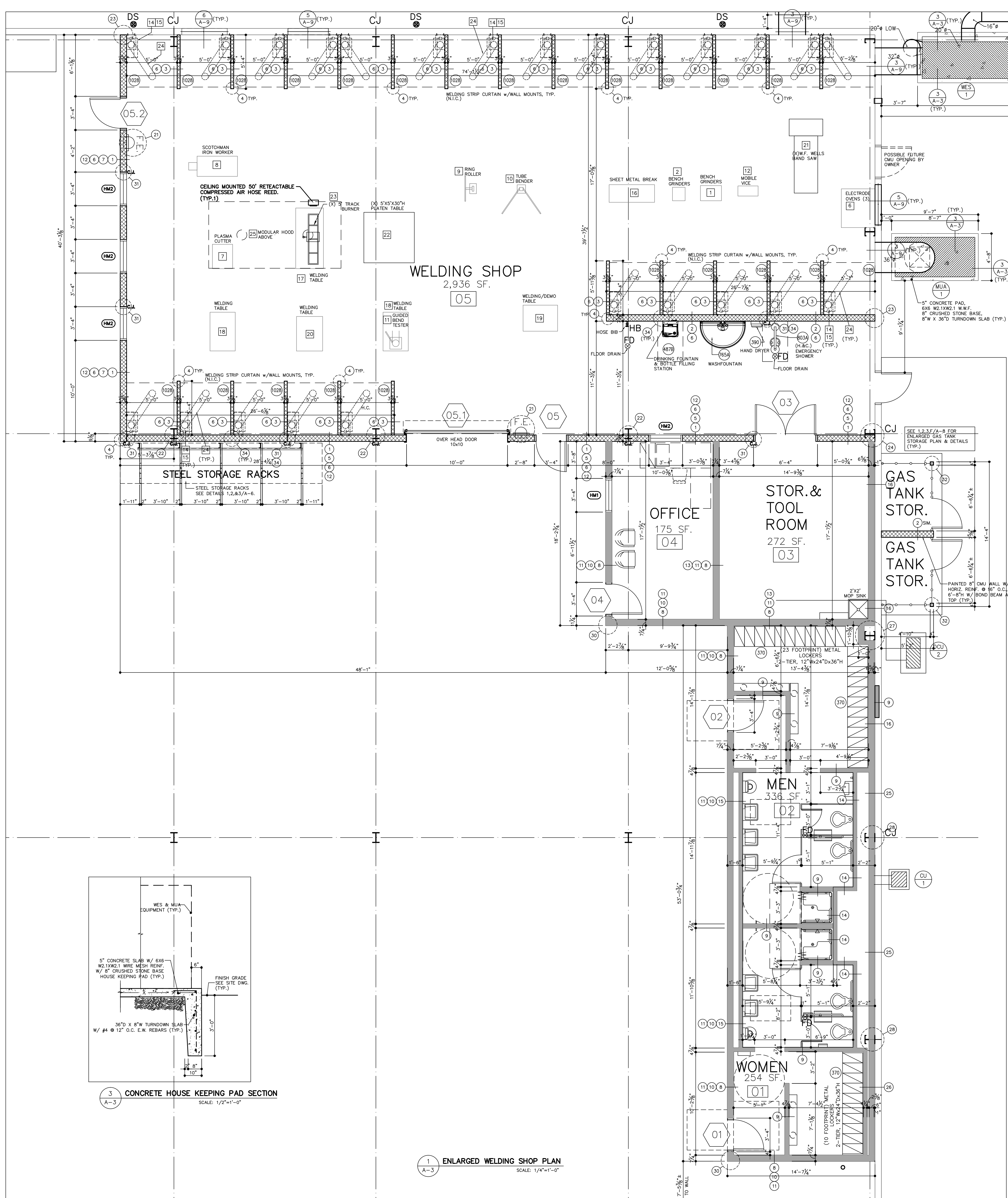
LEGEND	
	METAL STUD PARTITION
	MASONRY WALL & PARTITION
	FOR WALL TYPES & TYP. DETAILS SEE DWG. A-10
	FOR DOOR TYPES & DETAILS SEE DWG. A-12
	FOR INTERIOR WINDOW TYPES & DETAILS SEE DWG. A-13
F.E.	FIRE EXTINGUISHER (SEE DETAIL 21/A-10)
C.J.	INTERIOR CONTROL JOINTS (SEE DETAIL 31/A-10)
	FOR BUILDING SECTIONS SEE SHEETS A-5 THROUGH A-9

Garripson Architects  
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**IRON WORKERS LOCAL 399**  
**New Welding Training Facility**  
26 EAST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

Project No. 19-13  
Date: 6-25-19  
Scale: 1/8"=1'-0"

**PROPOSED 2ND FLOOR PLAN**  
**A-2**



**PROPOSED WELDING SHOP ITEMS LIST:  
FURNISHED BY OWNER; INSTALLED BY CONTRACTOR**

- 1 BENCH GRINDER, 30"Wx4'H, 220/440V, 3.3/1.65 AMPS, 3PH (striphase)
- 2 BENCH GRINDER, 32"Wx4'H, 20A/480V, 3PH
- 6 ELECTRODE OVEN w/STAND, 4"Wx40"Dx7'H, 120V/8.3 AMPS
- 7 PLASMA CUTTER ON CART, 2"W . . . 30A/92V-105A/12V, 30A/112V-105A/142V
- 8 SCOTCHMAN IRON WORKER, 6"Wx3'Dx6'H, 460V/7.4 AMPS
- 9 RING ROLLER, 3"Wx2'Dx4'H
- 10 TUBE BENDER, 4"Wx2'Dx4'H
- 11 GUIDED TUBE BENDER, 1"Wx2'Dx4'H, 110V
- 12 MOBILE VICE (RECTANGLE BASE), 2"Wx2'Dx4'H
- 14 FLEXTEC 350X (K4272-1) WELDER, 460V, 3 PH, 19 AMPS, BY LINCOLN ELECTRIC. (TYP.24)
- 15 LN-25X WIRE FEEDER BY LINCOLN ELECTRIC, CROSSING CABLE TIE TO FLEXTEC 350X WELDER. (TYP.24)
- 16 SHEET METAL BREAK, 5"Wx2'Dx4'H
- 17 WELDING TABLE w/PROPANE, 6"Wx3'Dx4'H
- 18 WELDING TABLE, 4"Wx2'Dx3'H
- 19 WELDING TABLE, 4"Wx3'Dx3'H
- 20 WELDING TABLE, 4"Wx3'Dx3'H
- 21 (EXISTING) W.F. WELLS HORIZONTAL BAND SAW MODEL:H-2024-1, 7.5 HP, 230/460V, 3 PH, 3"-6"D X 7'-4'L
- 22 (EXISTING) 5'X5'X30"H PLATEN TABLE
- 23 (EXISTING) 5' LONG TRACK BURNER, 110V (ON TOP OF STEEL TABLE)
- 24 TELESCOPING EXTRACTION ARM & CONTROL BOX BY LINCOLN ELECTRIC OR EQUAL (TYP.24)
- 25 MODULAR HOOD: 6.6'X13.1', 380-480V/3 PH/9.4AMPS BY LINCOLN ELECTRIC OR EQUAL (TYP.)
- 1028 6"W X 0.080", 5'-07H TINTED WELDING STRIP CURTAINS w/WALL MOUNTS HANGER STEEL PIPE, (NOT IN CONTRACT, SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR)

**FURNITURE ITEMS LIST:  
FURNISHED & INSTALLED BY CONTRACTOR**

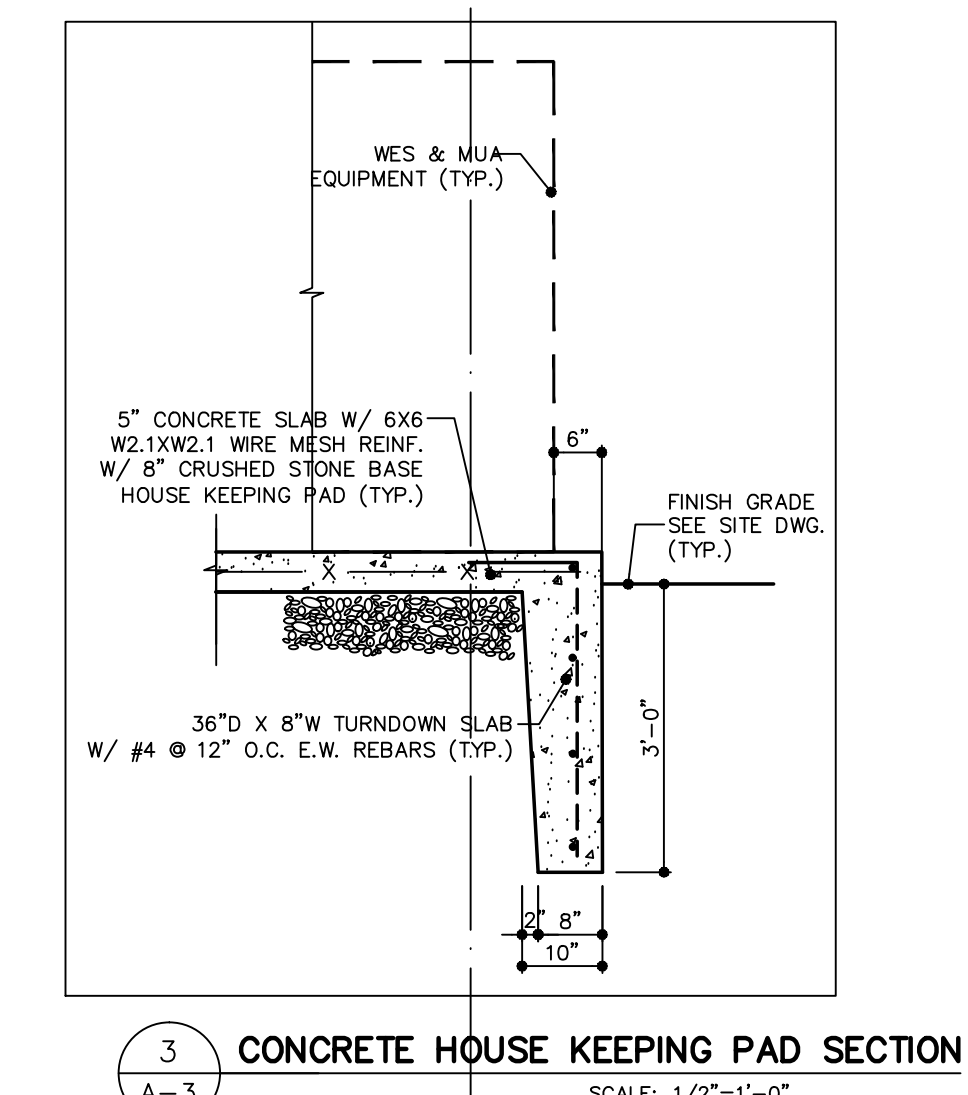
- 142A WHITE BOARD w/SERIES 1 MAP RAIL, #5TH FLAG HOLDER, CHALKTRAY & HOOKS, 10'-0"Wx4'-0"H, CLARIDGE MODEL# LCS24 & MODEL# 5TH HOOKS
- 370 DOUBLE TIER METAL LOCKER, 12"Wx24"Dx36"H w/6" LEGS, Penco, GUARDIAN SERIES, #B220M OR APPROVED EQUAL. (TYP. 33 FOOTPRINT)
- 390 ELECTRIC HAND DRYER, XLERATOR MODEL #XL-SB, 120V, SURFACE MTD, AUTOMATIC w/SOUND & SPEED CONTROL & NOISE REDUCTION NOZZLE OR APPROVED EQUAL.
- 467B DRINKING FOUNTAIN WITH BOTTLE FILLER AND FILTER: MODEL #LZSBWSLP (WATER COOLER WITH BOTTLE FILLING STATION AND FILTER) BY ELKAY OR APPROVED EQUAL. SEE SPECIFICATIONS
- 665A ADA COMPLIANT WASHFOUNTAIN, 54" SEMI-CIRCULAR, TERRON, BRADLEY MODEL# TDB3104 (INFRARED) OR APPROVED EQUAL. SUPPLIED & INSTALLED BY PLUMBING CONTR.
- 803A BARRIER-FREE SAFETY STATION w/WIDEAREA EYE/FACE WASH, WITH BOTH STAINLESS STEEL SHOWER HEAD & COVER FOR EYE/FACE WASH BOWL, GUARDIAN MODEL #GBF190SSH-BC (SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR)

**FURNISHED & INSTALLED BY OWNER:**

- 112 OFFICE DESK w/RIGHT SIDE PEDESTAL & CRT RUNOFF UNIT w/LOCK, 66"Wx30"Dx29"H, SERIES 1000, ADELPHIA MODELS #SP66 w/48"Wx24"Dx26"H, CR48-6 RUNOFF UNIT. (NOT IN CONTRACT)
- 166 OFFICE CHAIR, 17 3/4"-22 3/4", VIRCDO MODEL #4301 (NOT IN CONTRACT)
- 181 FILE CABINET, 2 DRAWER 29"Hx18"Wx28"D w/LOCK, ADELPHIA #412L (NOT IN CONTRACT) (NOT IN CONTRACT)
- 502 GUEST SLED BASE CHAIR, 4000 SERIES, HON MODEL #44008 (NOT IN CONTRACT)

**LEGEND**

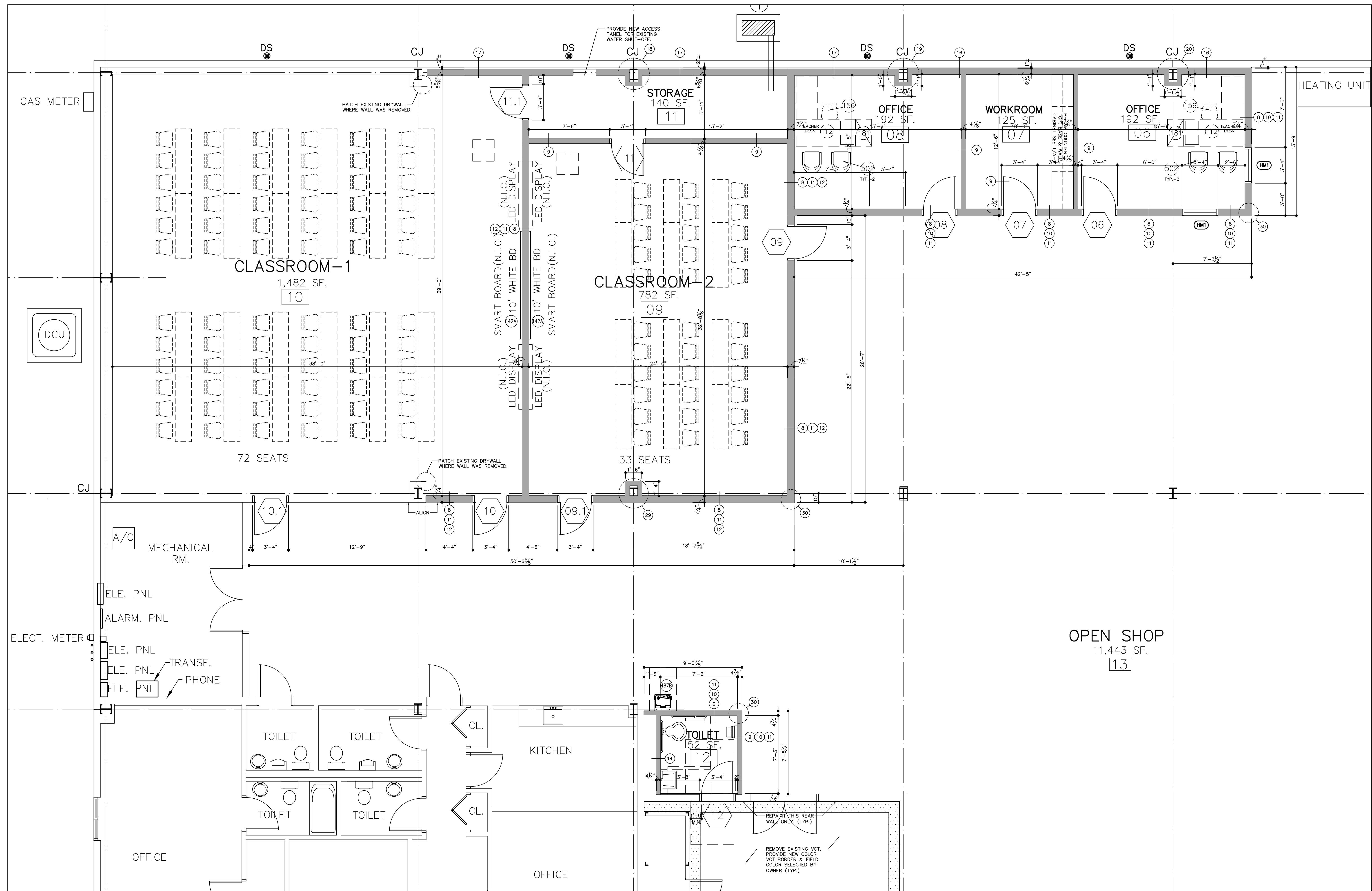
- METAL STUD PARTITION
- MASONRY WALL & PARTITION
- ⊙ FOR WALL TYPES & TYP. DETAILS SEE DWG. A-10
- ⊙ FOR DOOR TYPES & DETAILS SEE DWG. A-12
- ⊙ FOR INTERIOR WINDOW TYPES & DETAILS SEE DWG. A-13
- F.E. FIRE EXTINGUISHER (SEE DETAIL 21/A-10)
- C.J. INTERIOR CONTROL JOINTS (SEE DETAIL 31/A-10)
- FOR BUILDING SECTIONS SEE SHEETS A-5 THROUGH A-9



1 ENLARGED WELDING SHOP PLAN  
SCALE: 1/4"=1'-0"

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**IRON WORKERS LOCAL 399**  
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 26 EAST FLEMING PIKE  
 HAMMONTON, NEW JERSEY 08037  
**ENLARGED WELDING SHOP**  
**A-3**





1 ENLARGED CLASS ROOM PLAN  
A-4 SCALE: 1/4"=1'-0"

LEGEND	
	METAL STUD PARTITION
	MASONRY WALL & PARTITION
	FOR WALL TYPES & TYP. DETAILS SEE DWG. A-10
	FOR DOOR TYPES & DETAILS SEE DWG. A-12
	FOR INTERIOR WINDOW TYPES & DETAILS SEE DWG. A-13
	F.E. FIRE EXTINGUISHER (SEE DETAIL 21/A-10)
	C.J. INTERIOR CONTROL JOINTS (SEE DETAIL 31/A-10)
	FOR BUILDING SECTIONS SEE SHEETS A-5 THROUGH A-9

REVISIONS	
a.	d.
b.	e.
c.	f.

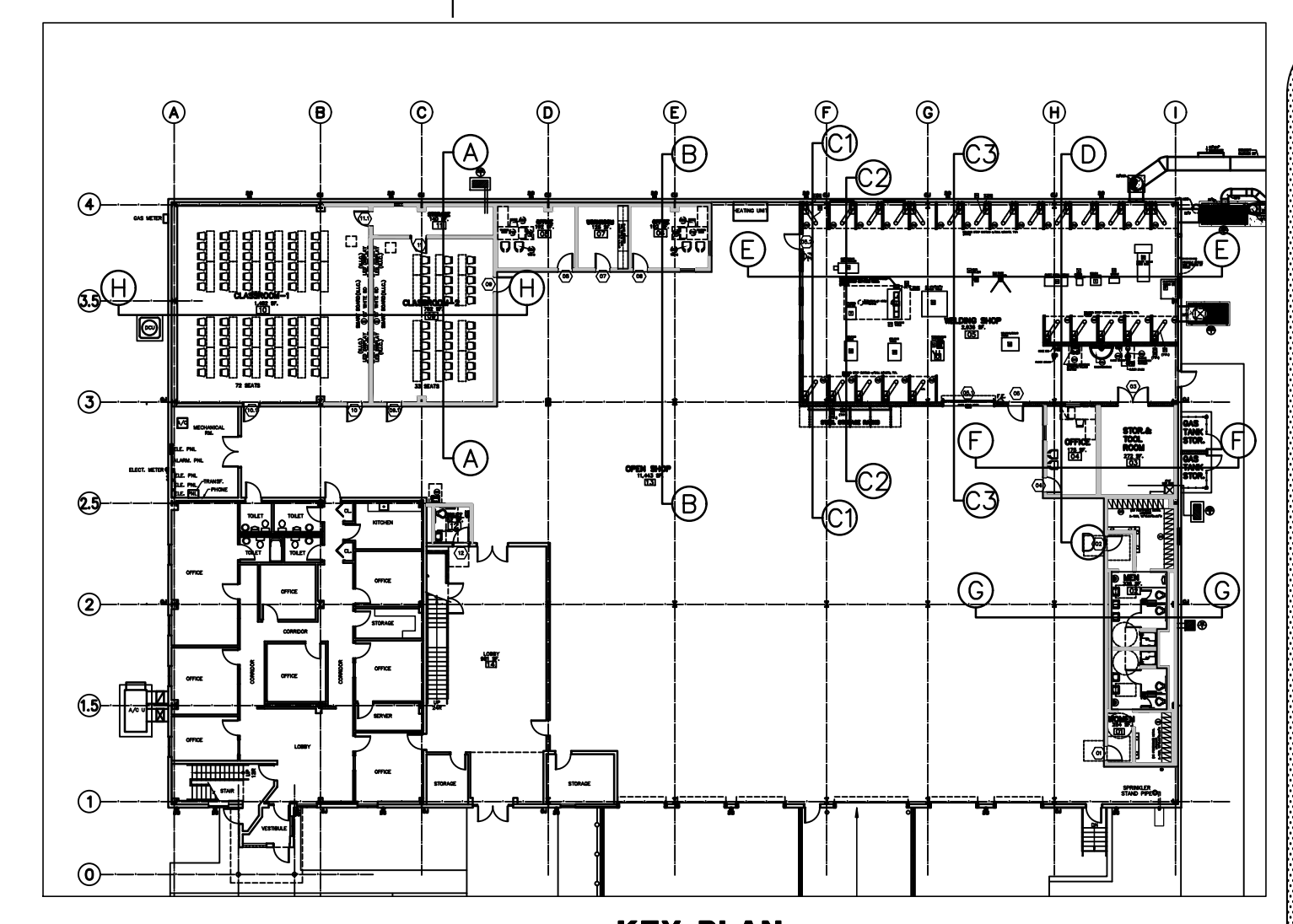
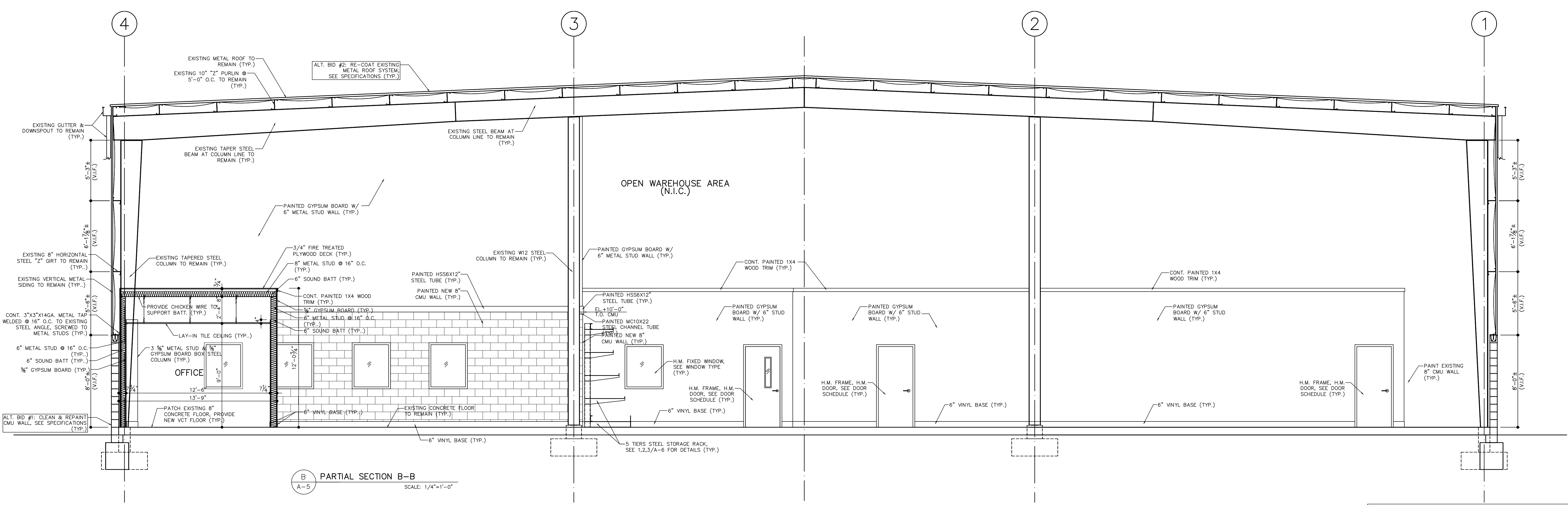
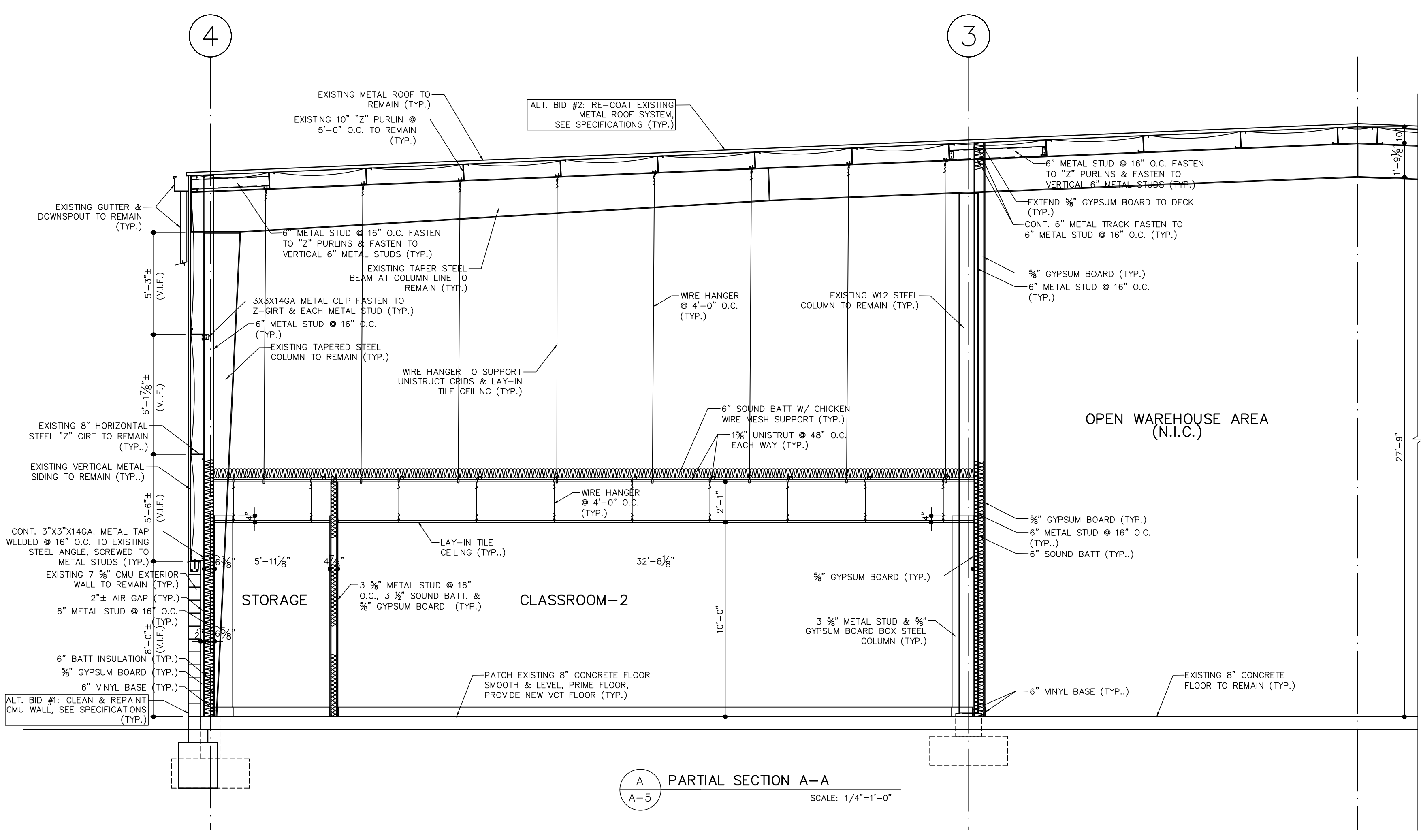
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Scale: 1/4"=1'-0"

ENLARGED CLASSROOMS

A-4

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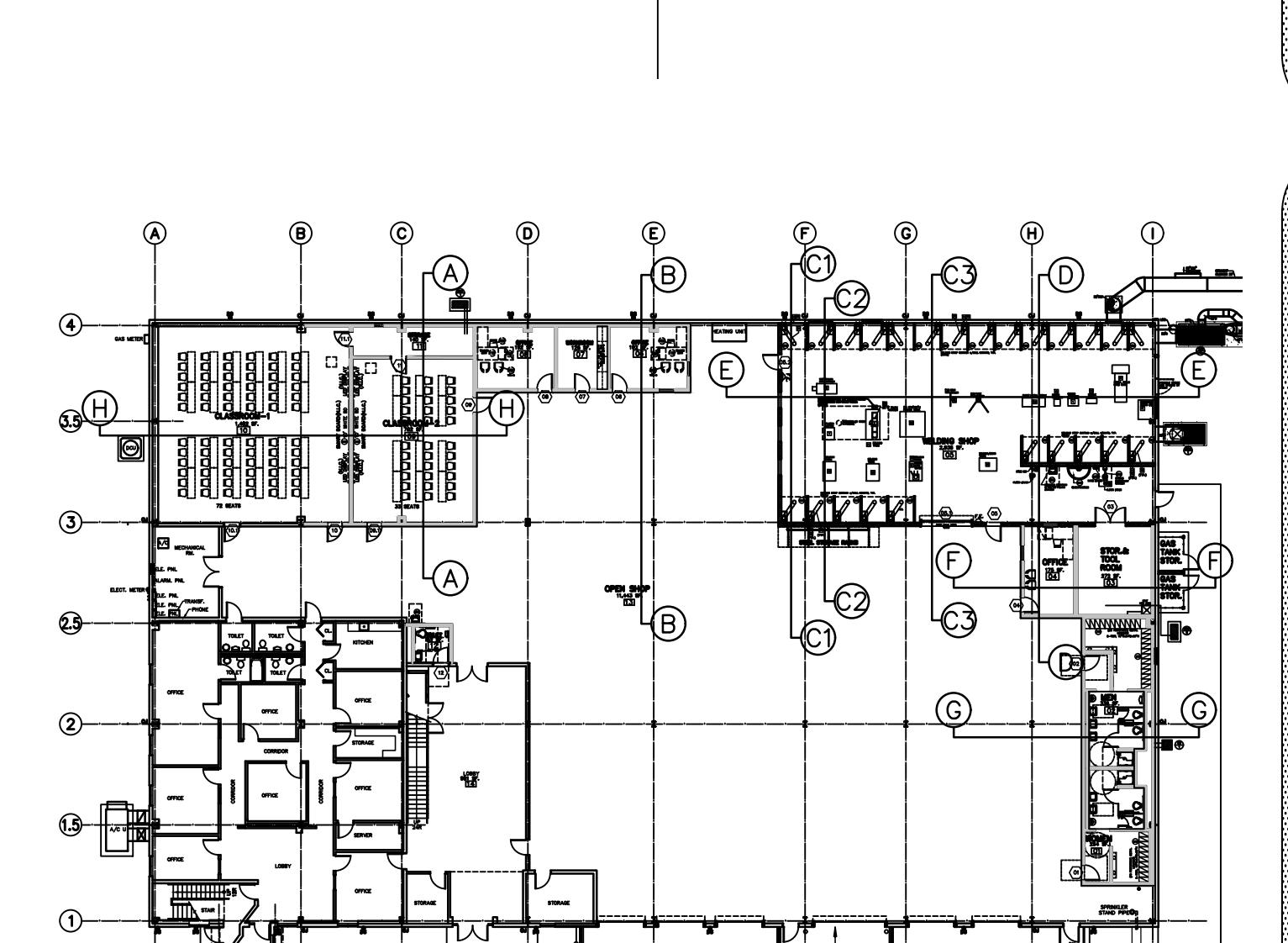
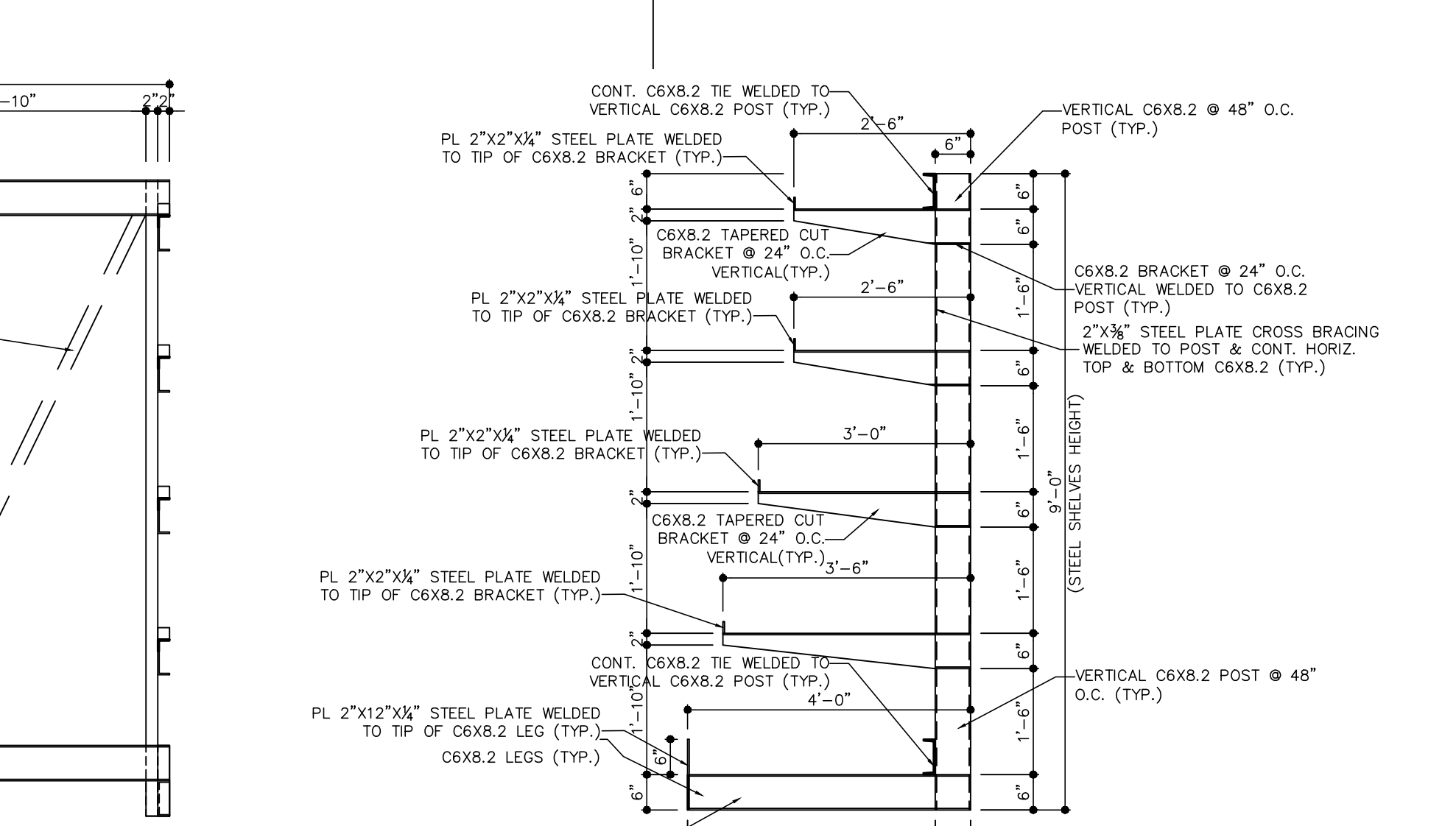
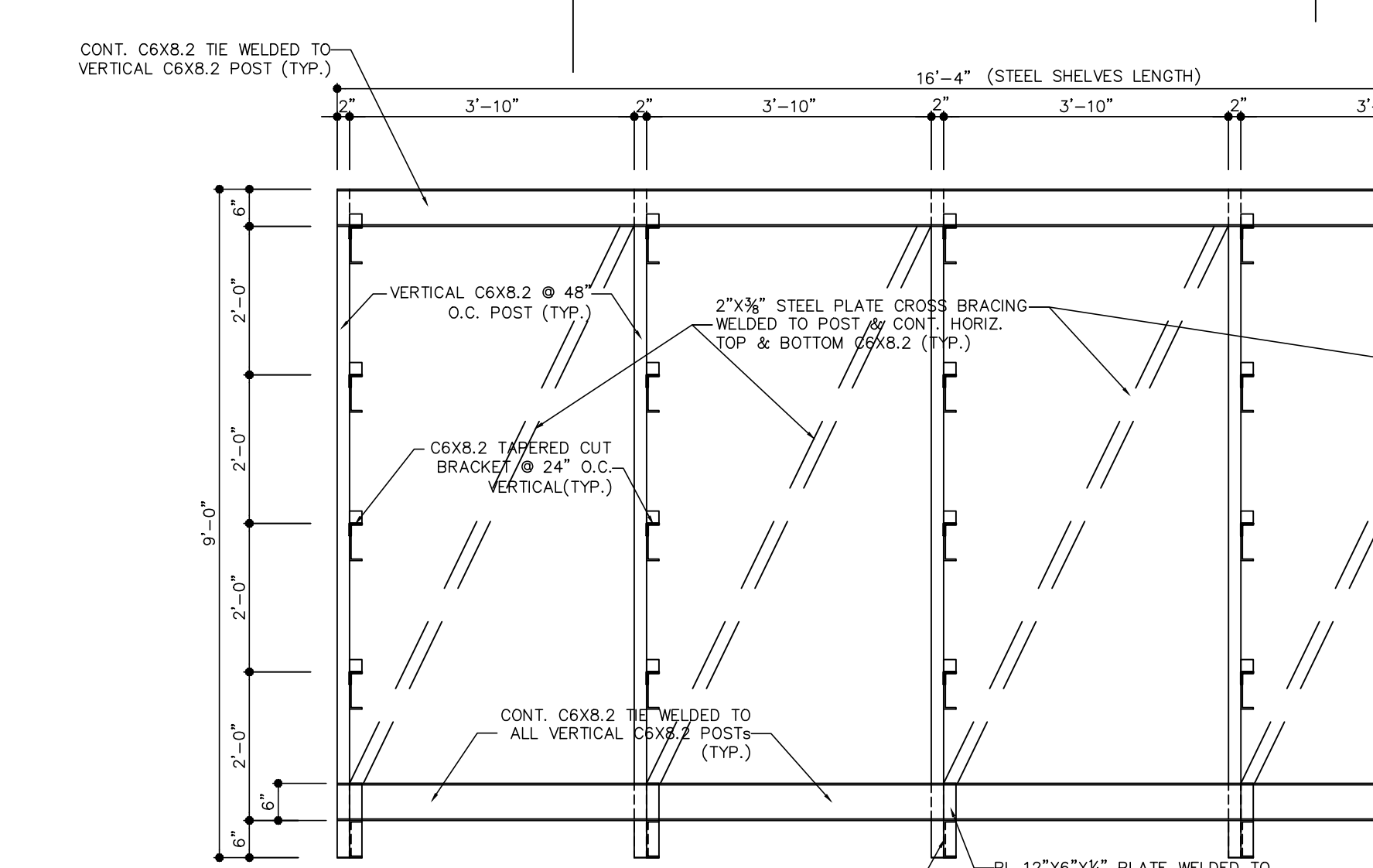
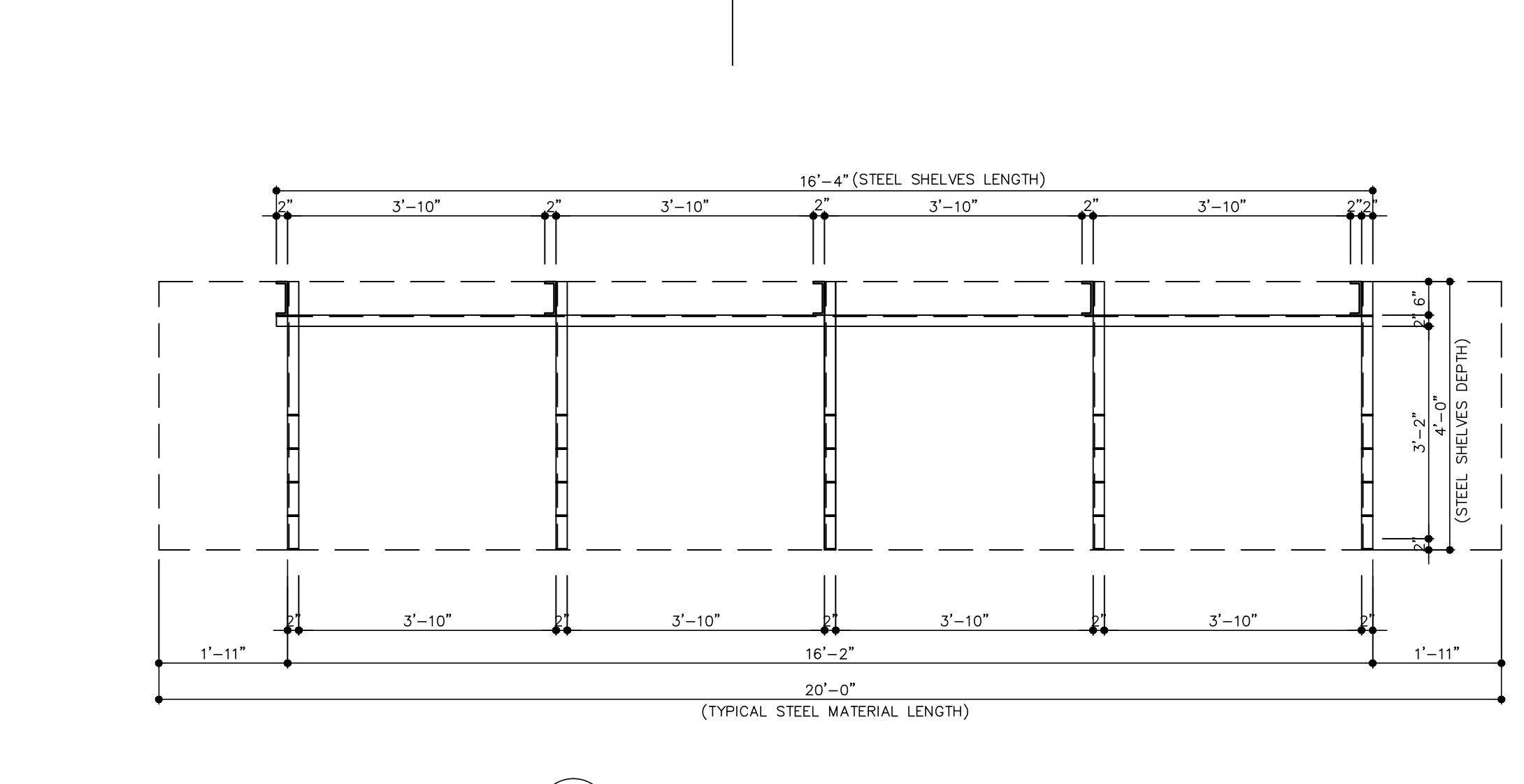
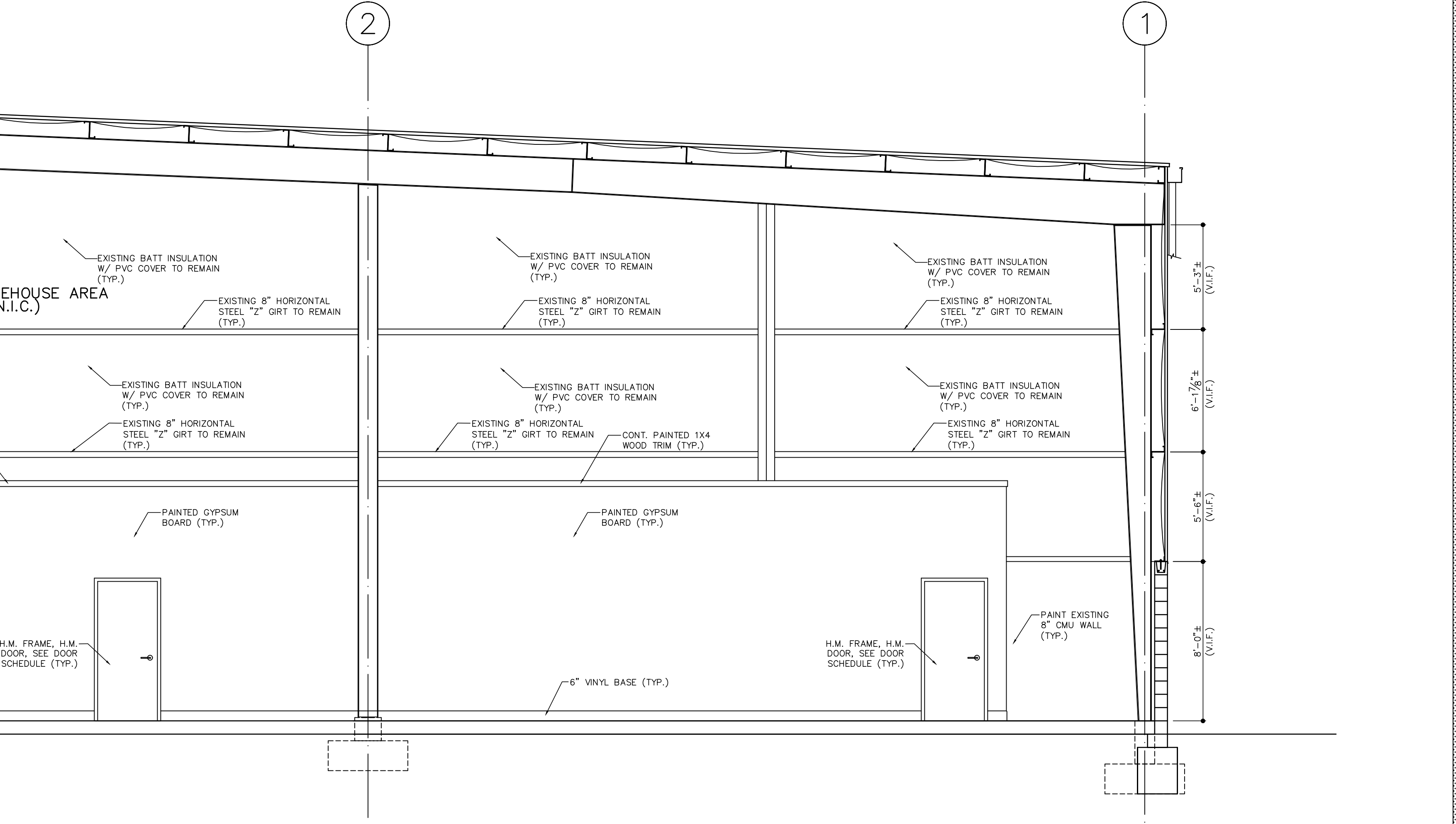
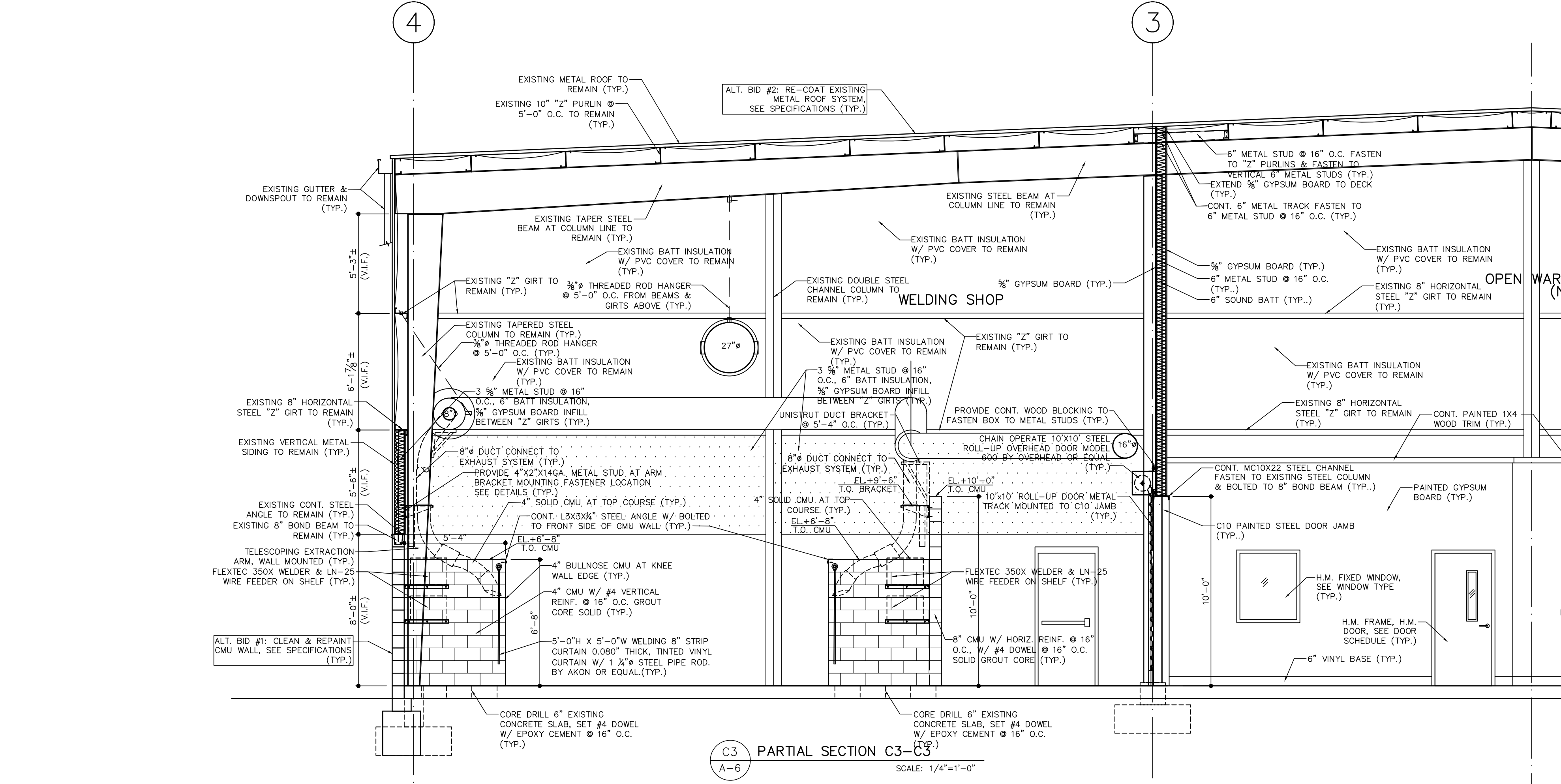
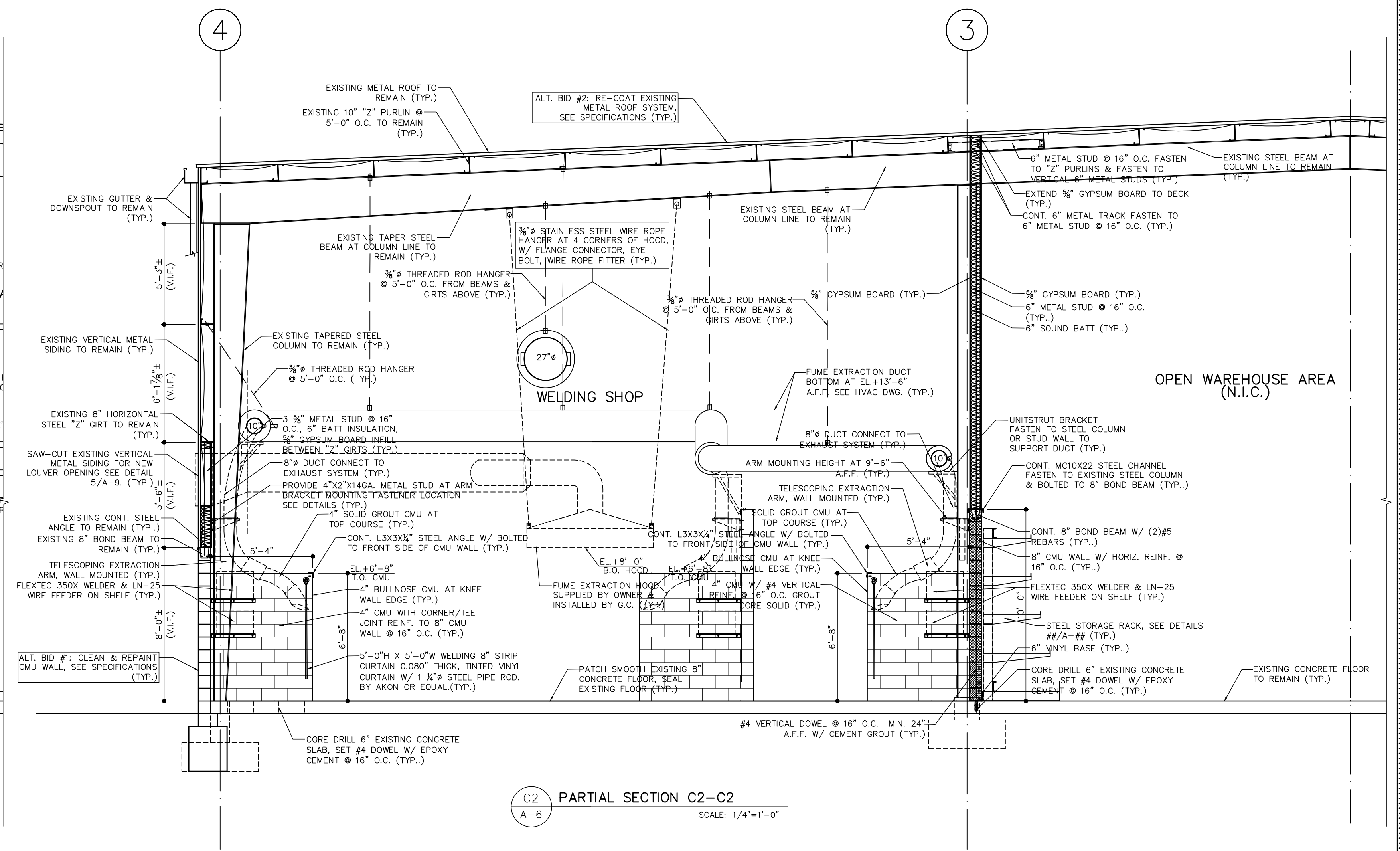
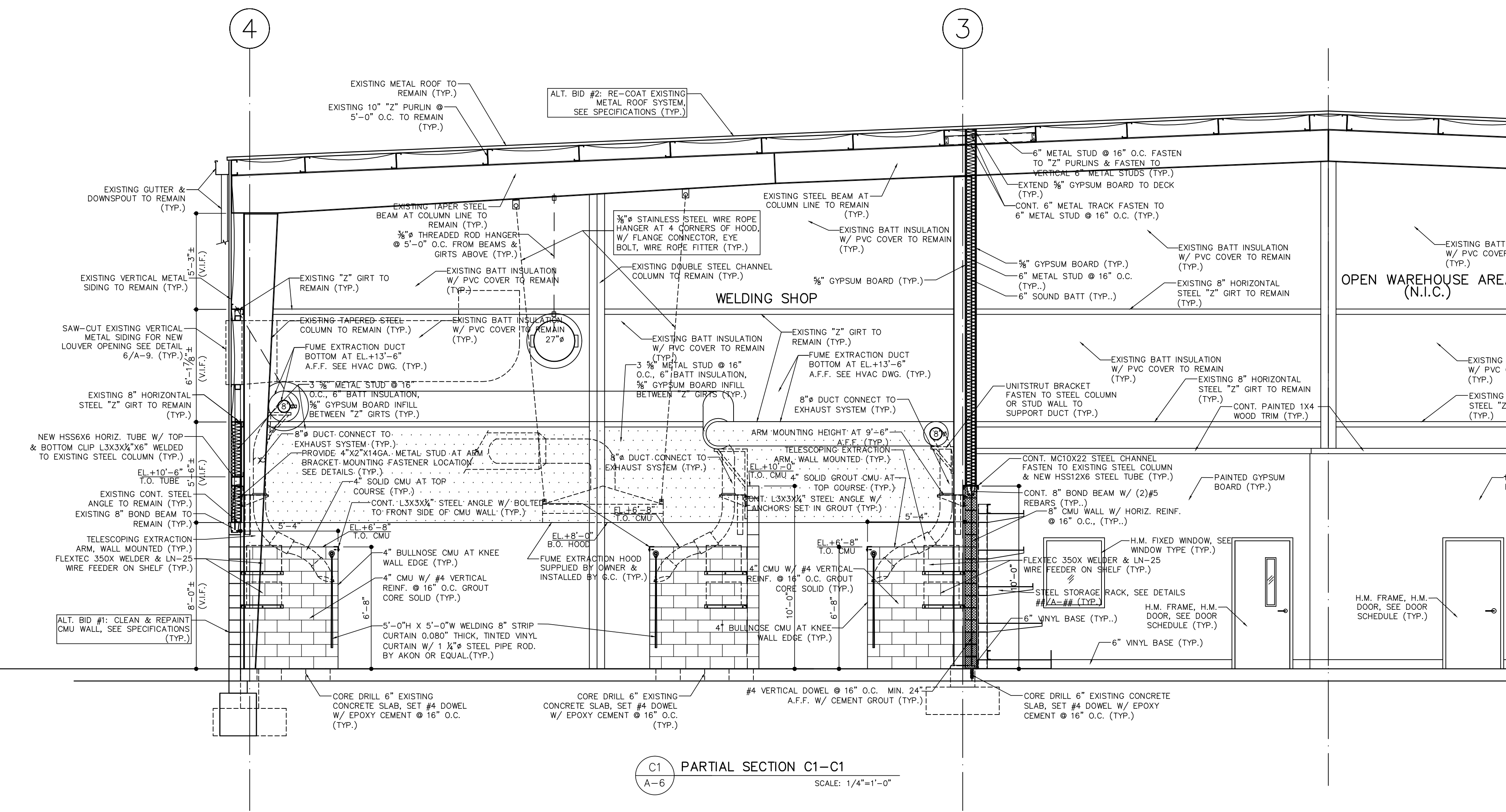


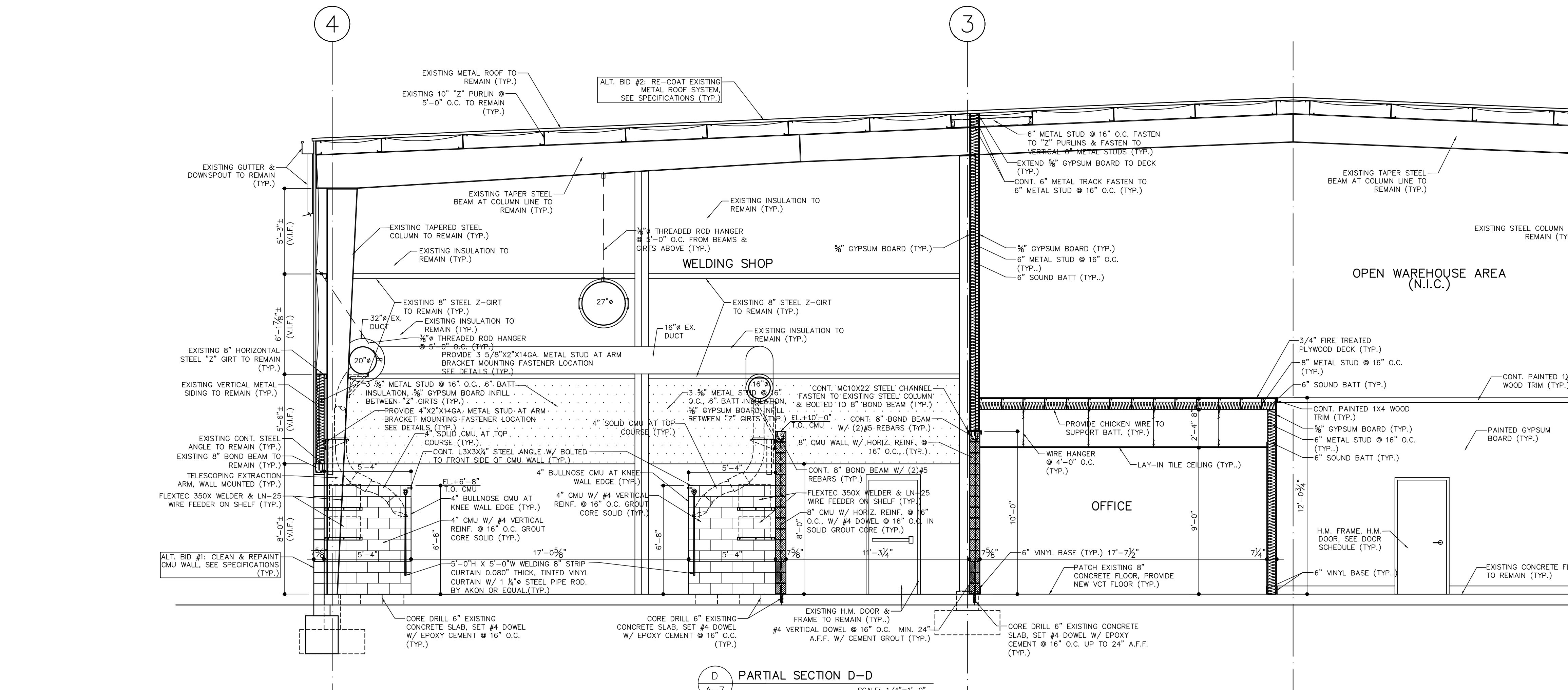
REVISIONS	
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c.	f.

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 Date: 6-25-19  
 Scale: 1/4"=1'-0"

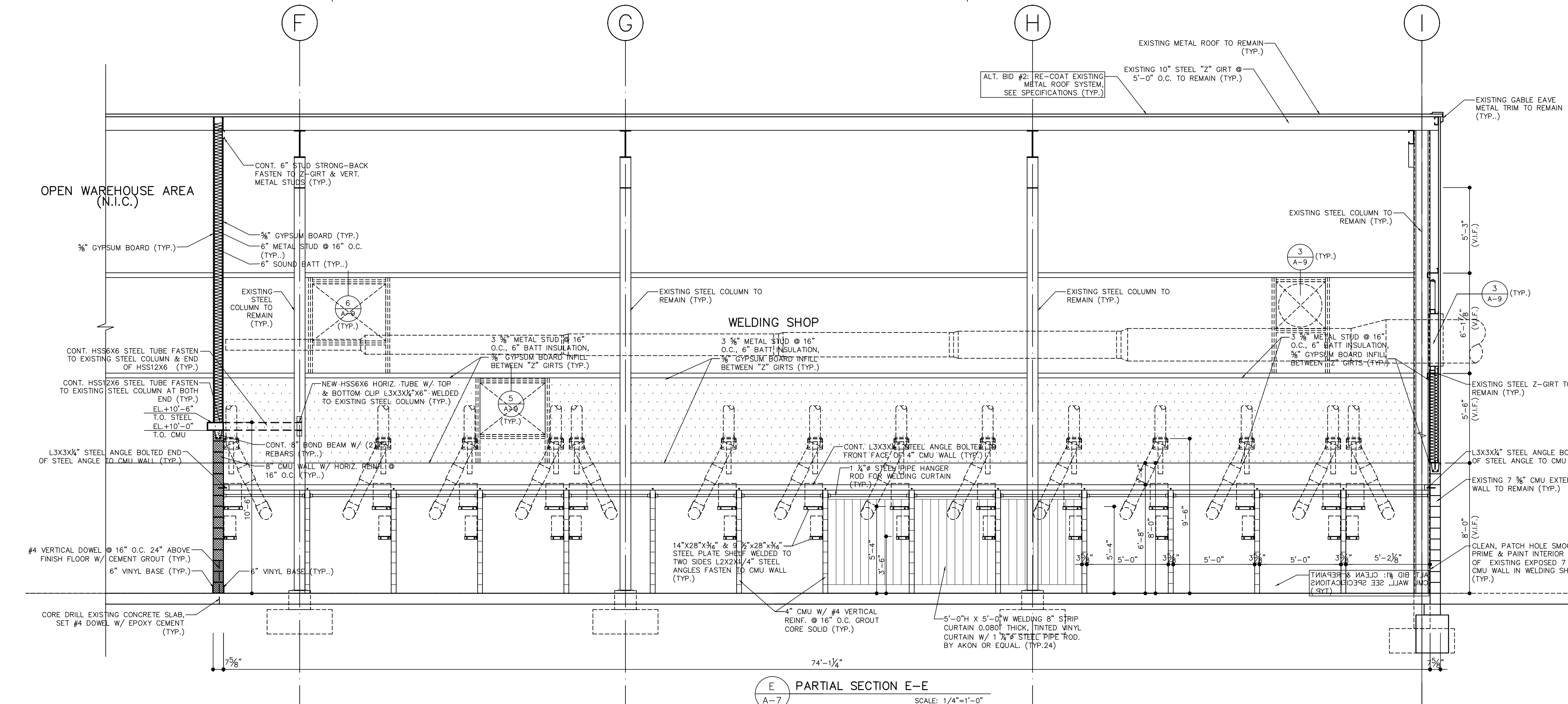
**SECTIONS I**

**A-5**

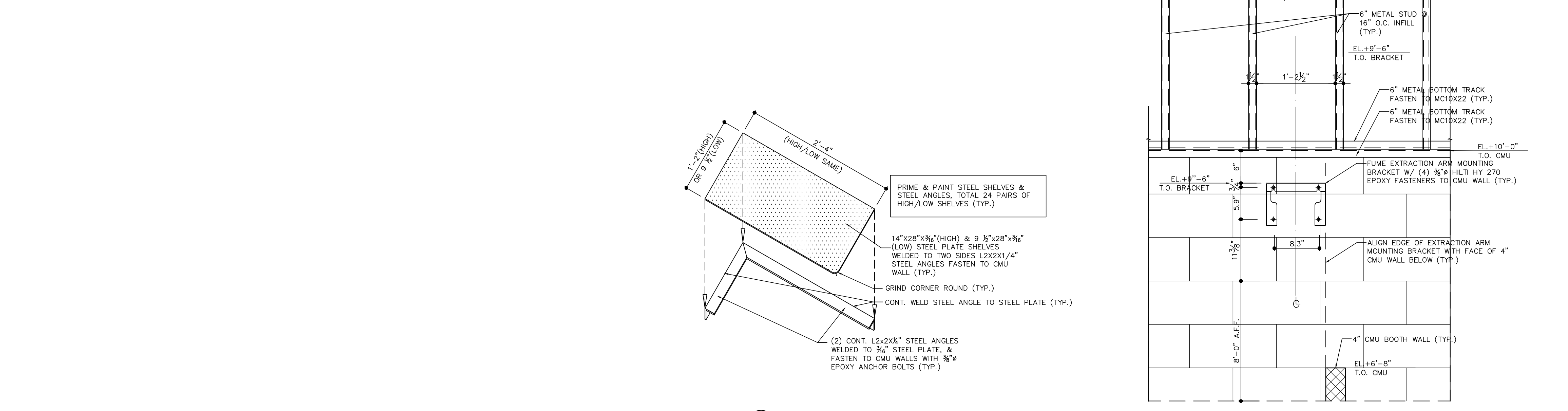




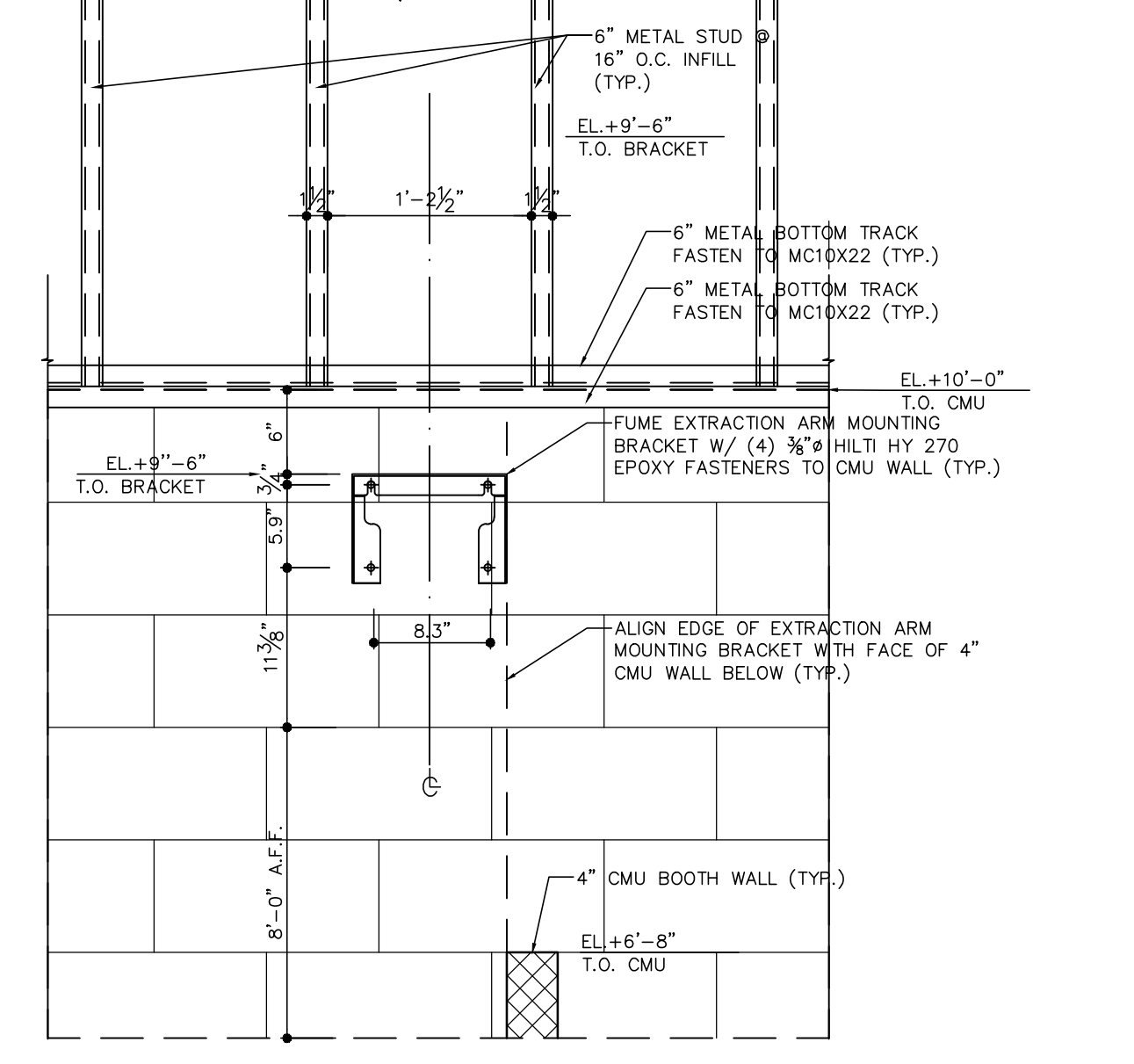
D PARTIAL SECTION D-D  
SCALE: 1/4"=1'-0"



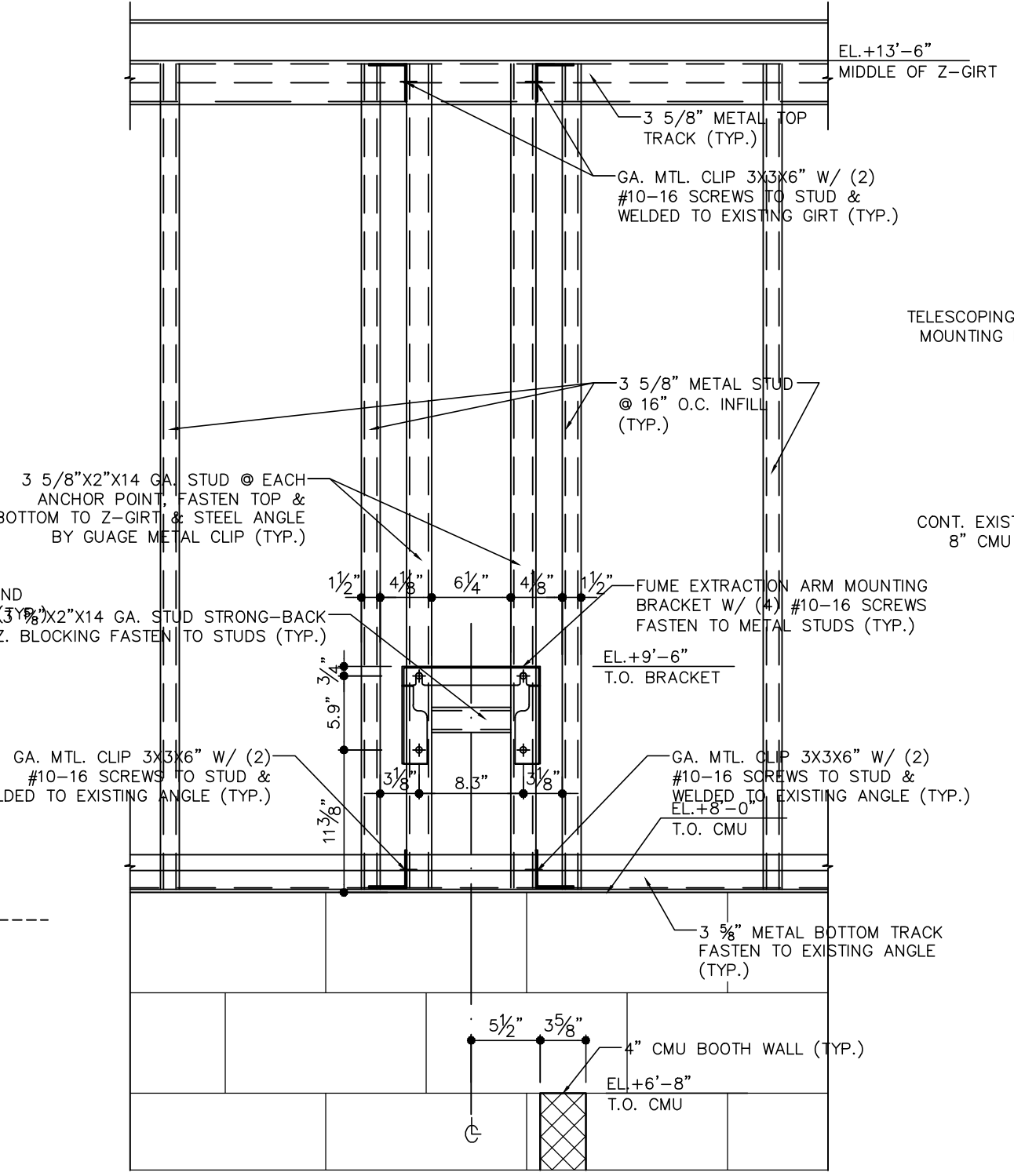
E PARTIAL SECTION E-E  
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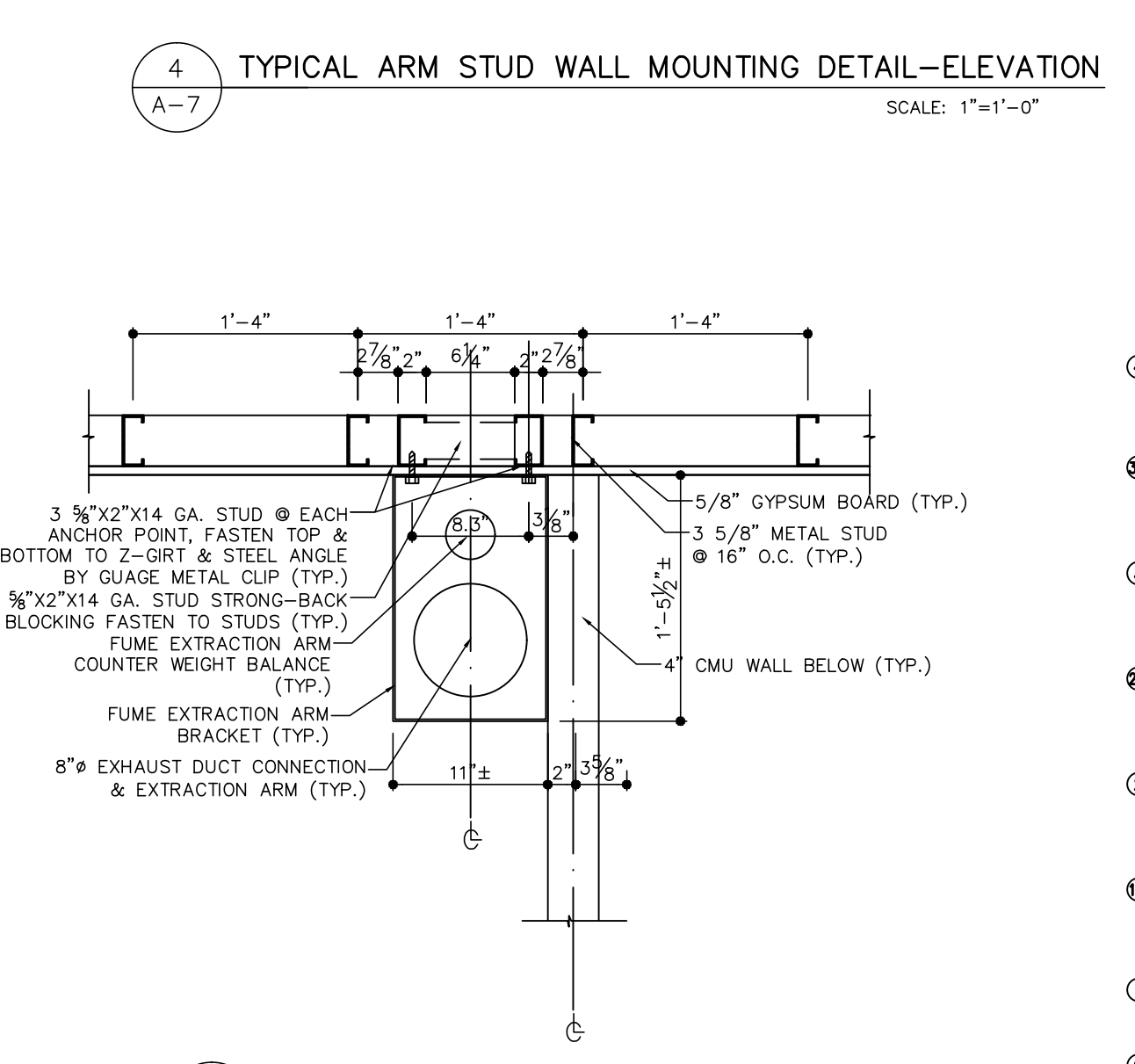
7 TYPICAL STEEL SHELVES DETAIL  
TOTAL 24 PAIRS OF HIGH/LOW SHELVES  
SCALE: 1"=1'-0"



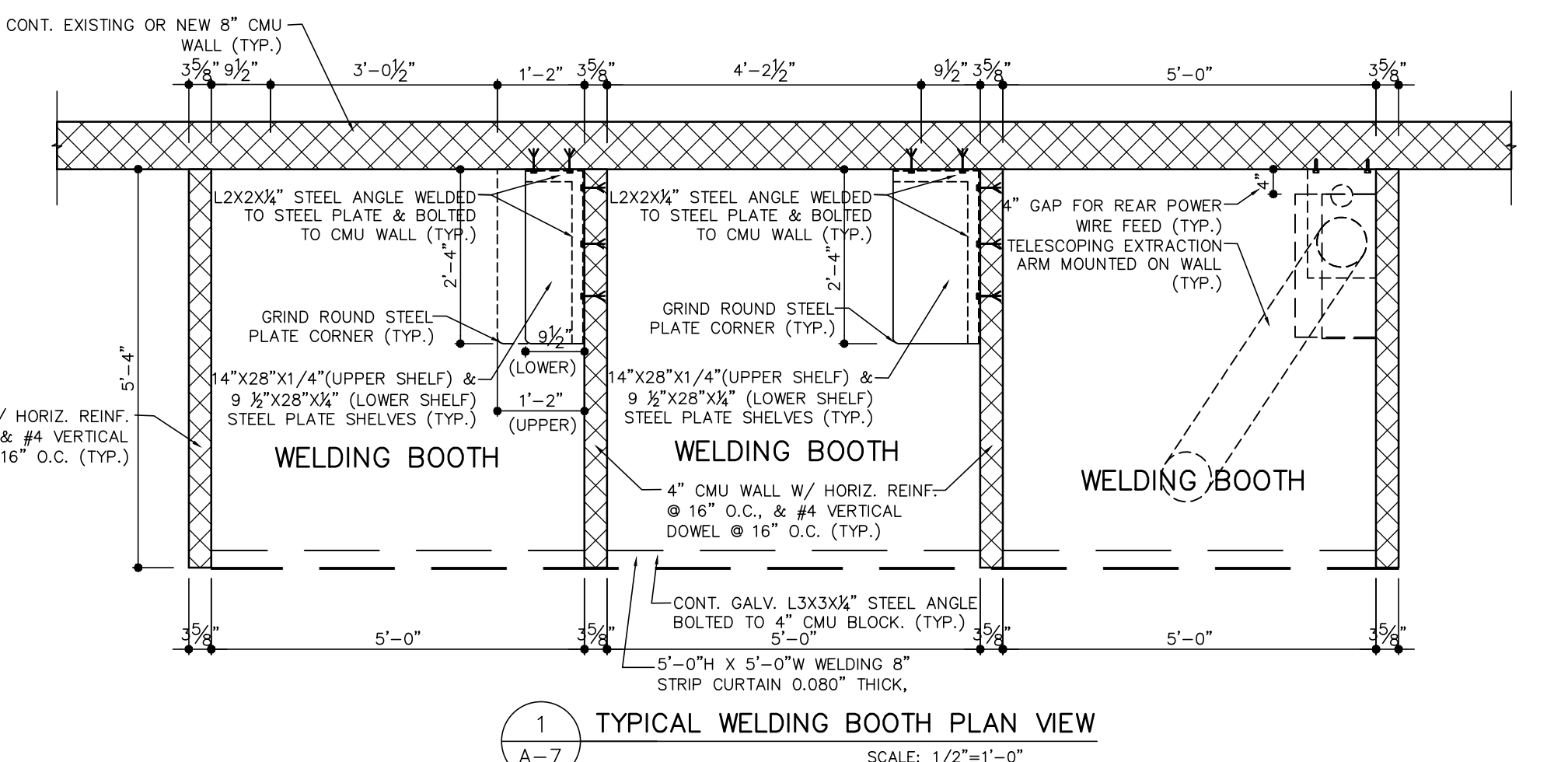
6 TYPICAL ARM CMU WALL MOUNTING DETAIL-ELEVATION  
SCALE: 1"=1'-0"



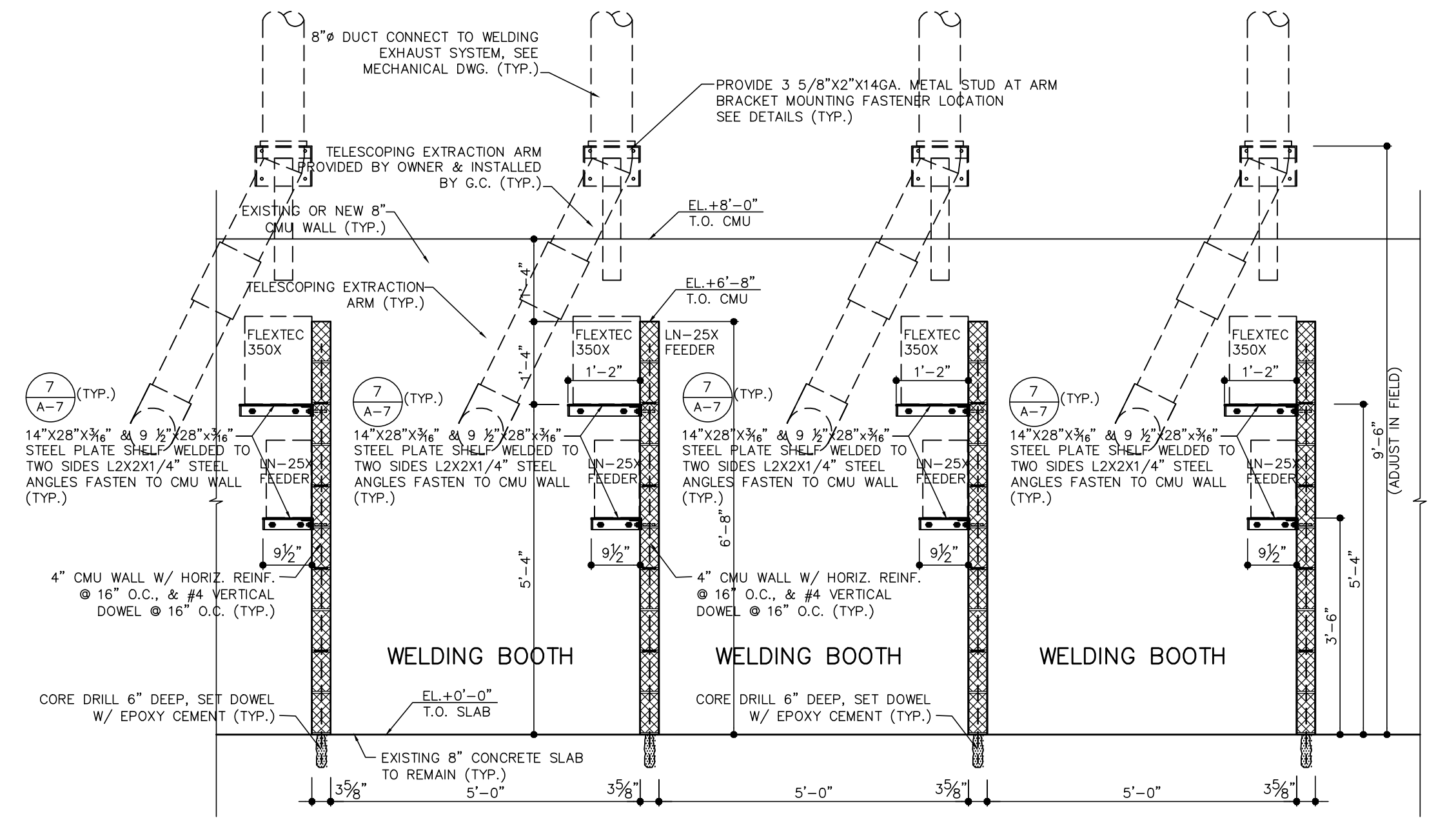
4 TYPICAL ARM STUD WALL MOUNTING DETAIL-ELEVATION  
SCALE: 1"=1'-0"



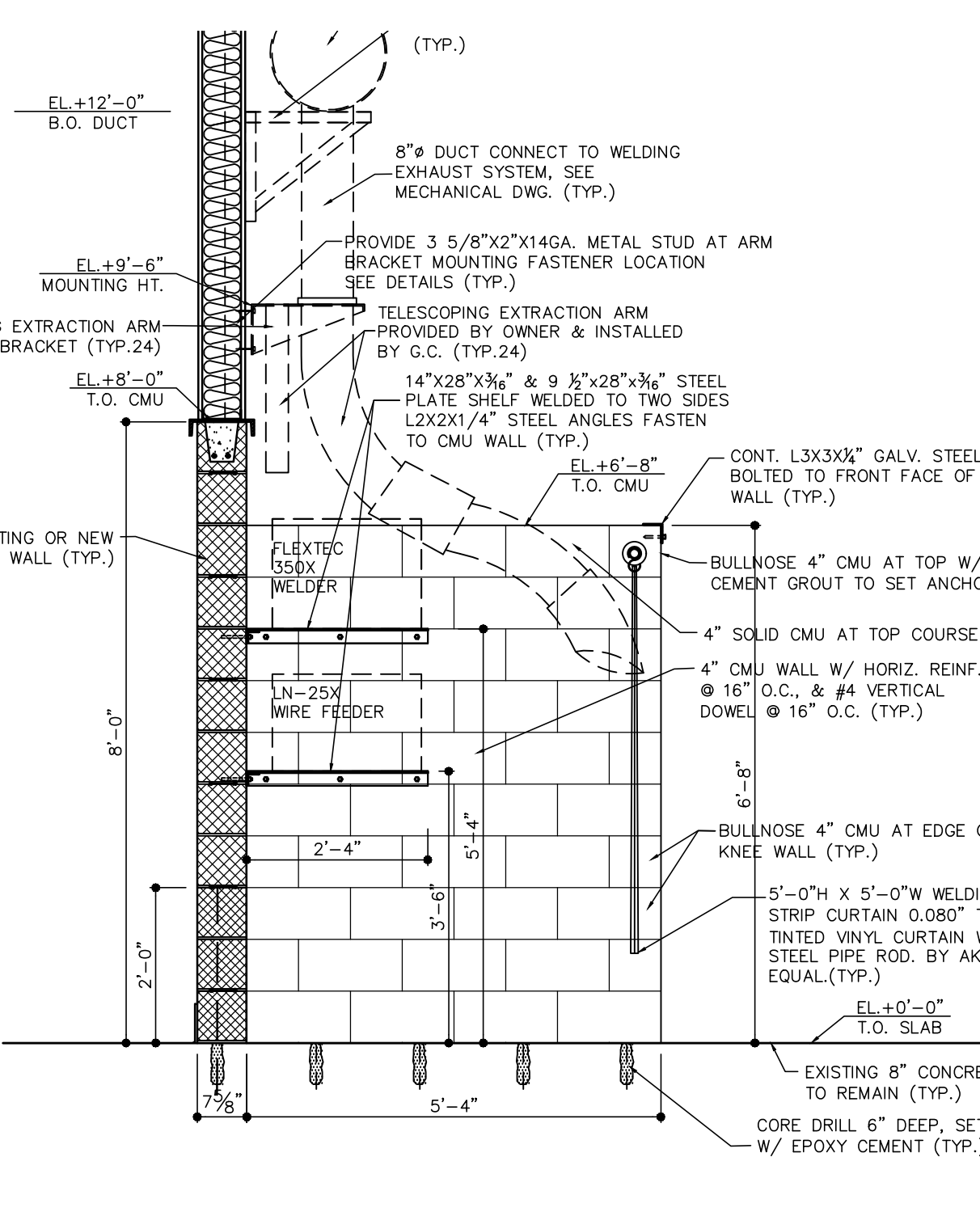
5 TYPICAL ARM MOUNTING DETAIL- PLAN  
SCALE: 1"=1'-0"



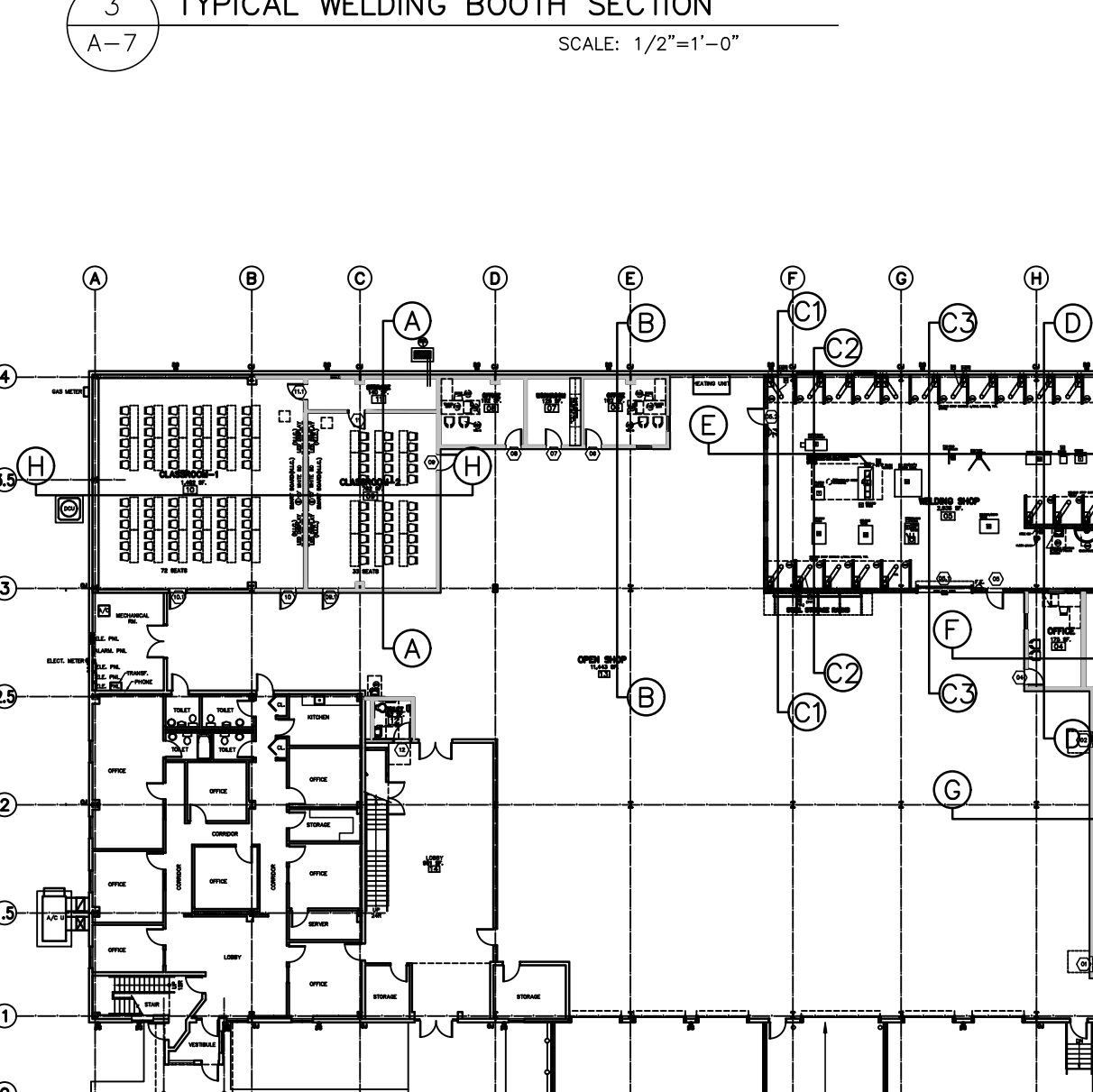
1 TYPICAL WELDING BOOTH PLAN VIEW  
SCALE: 1/2"=1'-0"



2 TYPICAL WELDING BOOTH CROSS SECTION  
SCALE: 1/2"=1'-0"



3 TYPICAL WELDING BOOTH SECTION  
SCALE: 1/2"=1'-0"

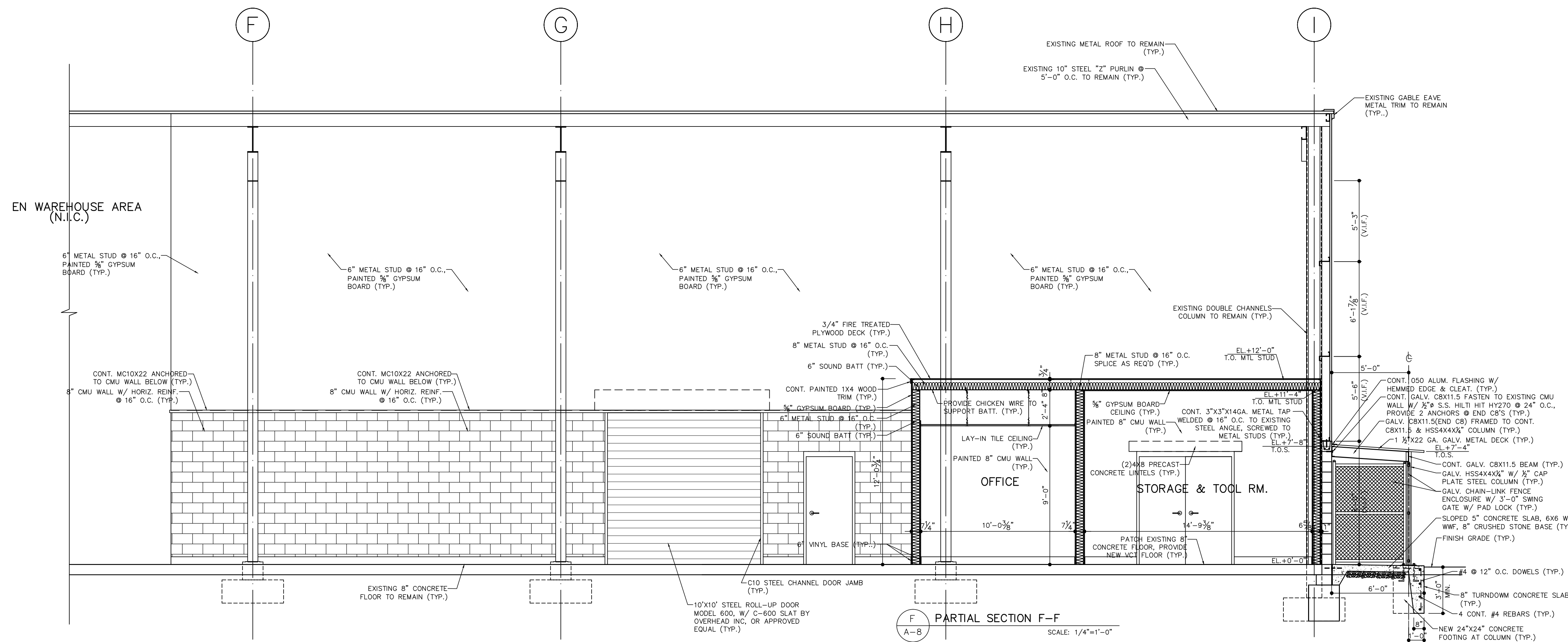


KEY PLAN

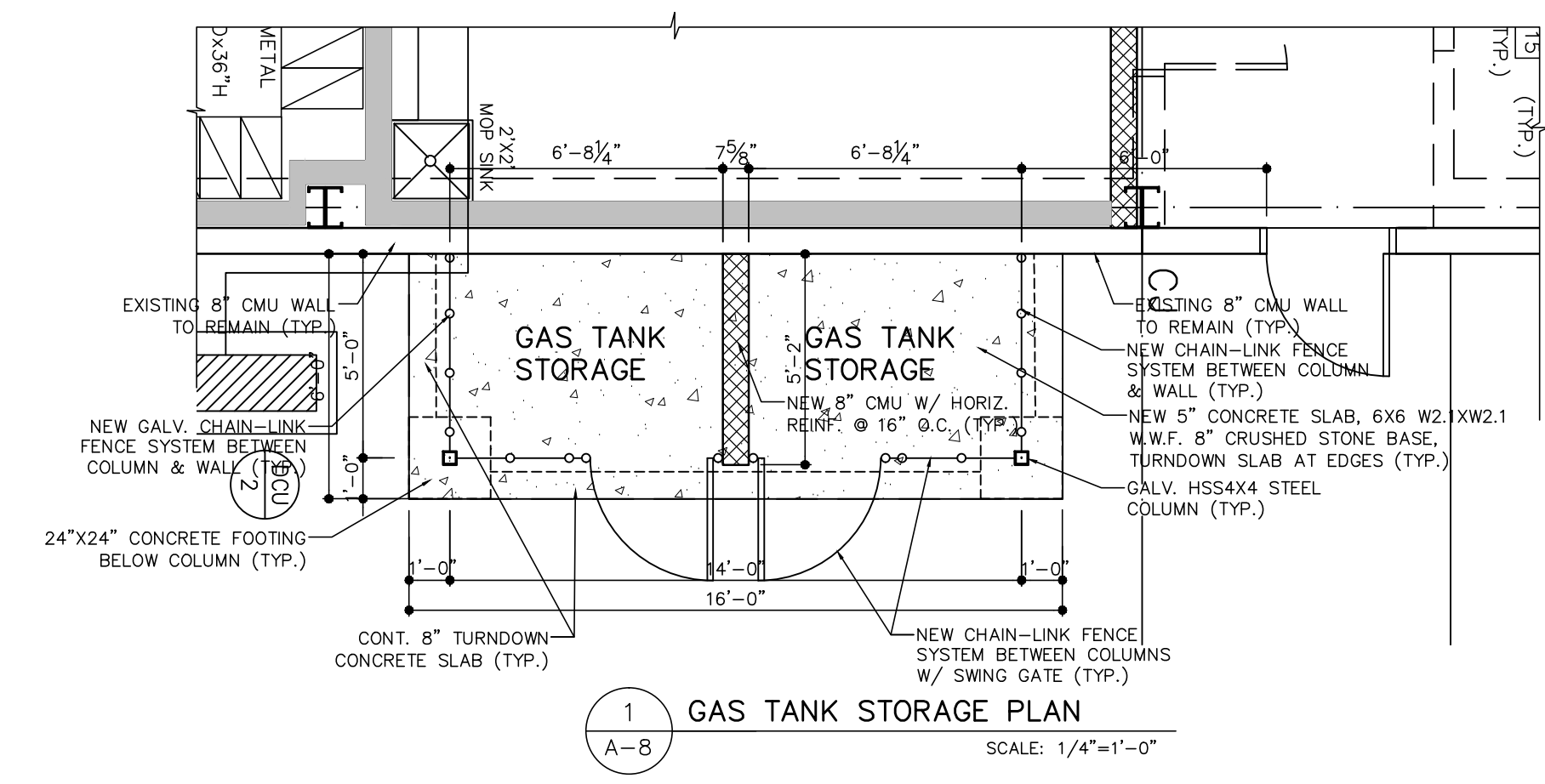
REVISIONS	
a.	d.
b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
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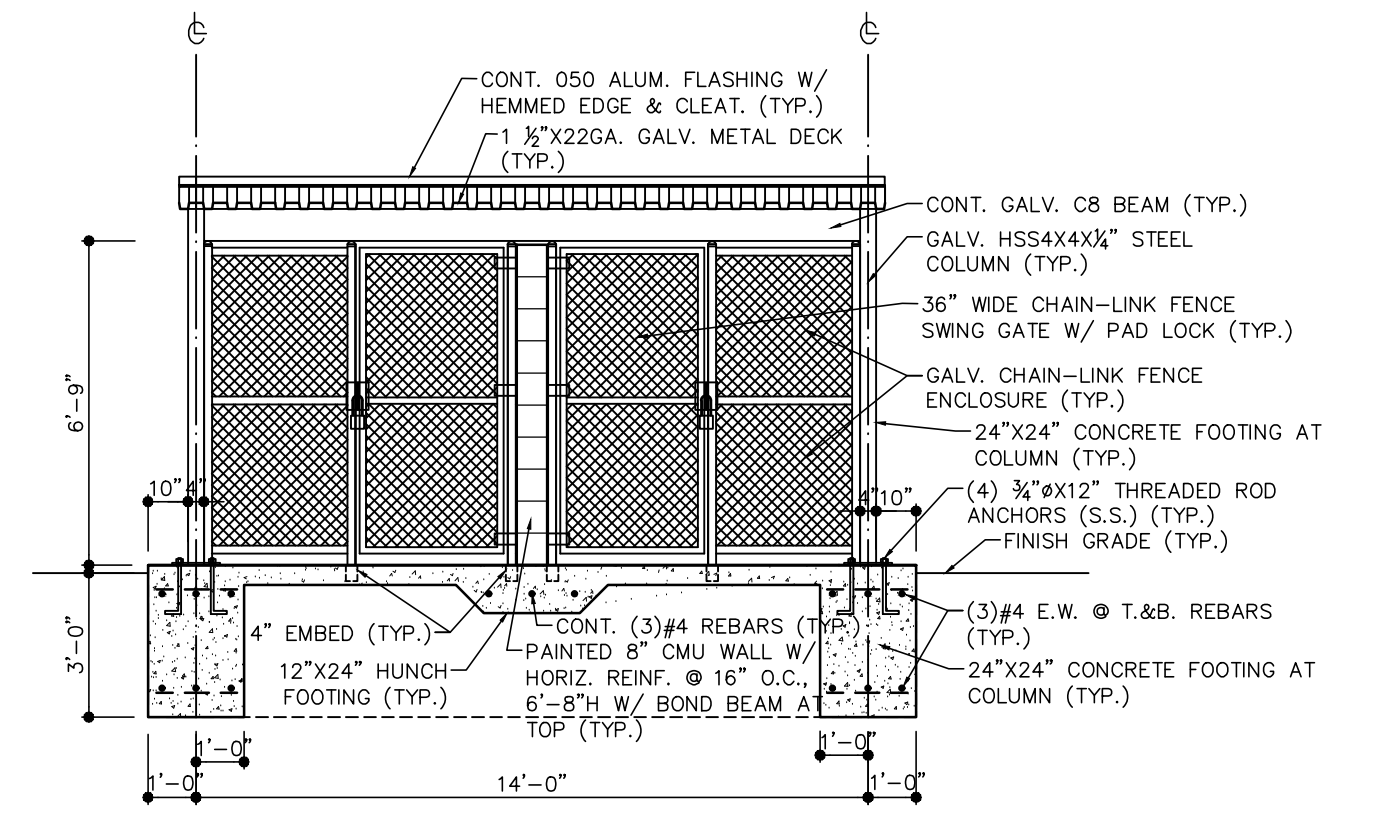
SECTIONS III



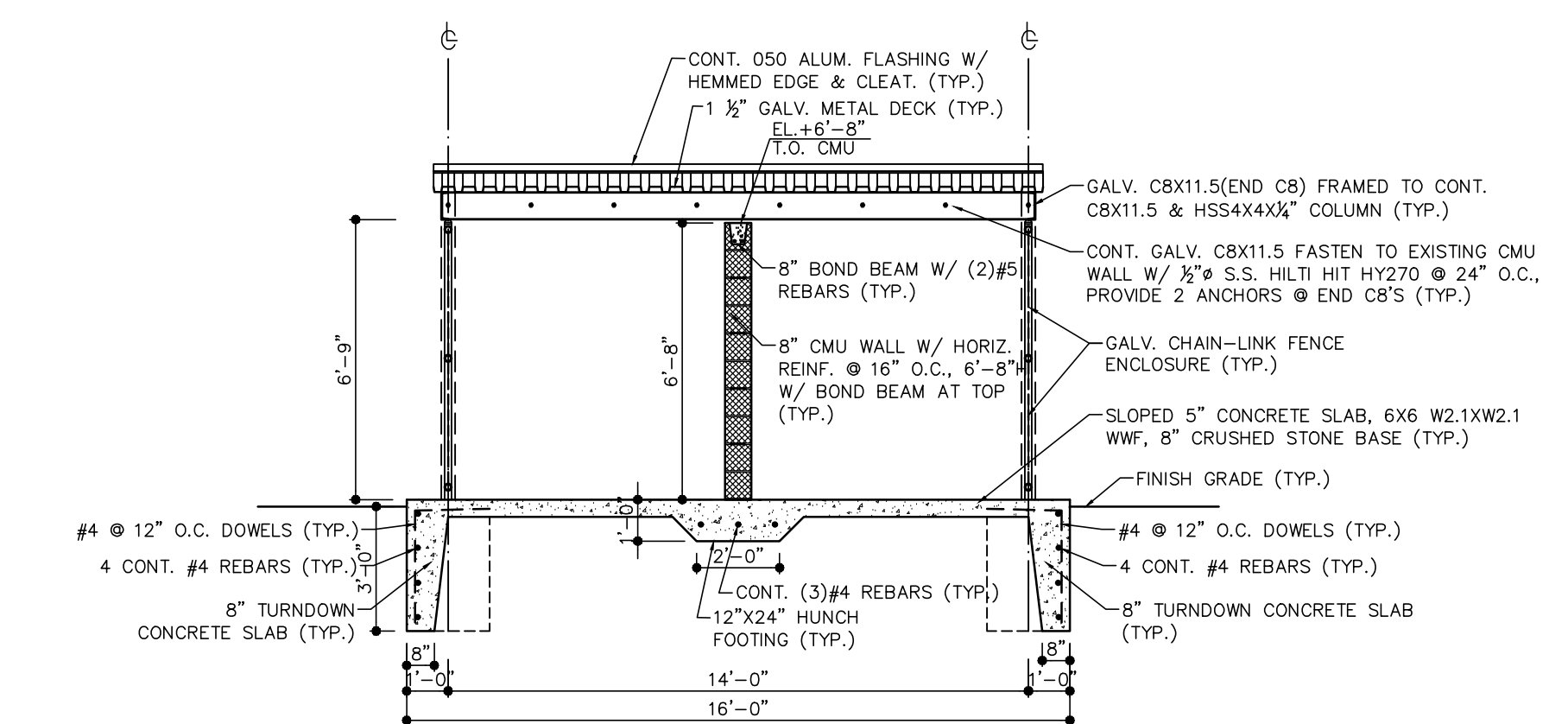
PARTIAL SECTION F-F  
SCALE: 1/4"=1'-0"



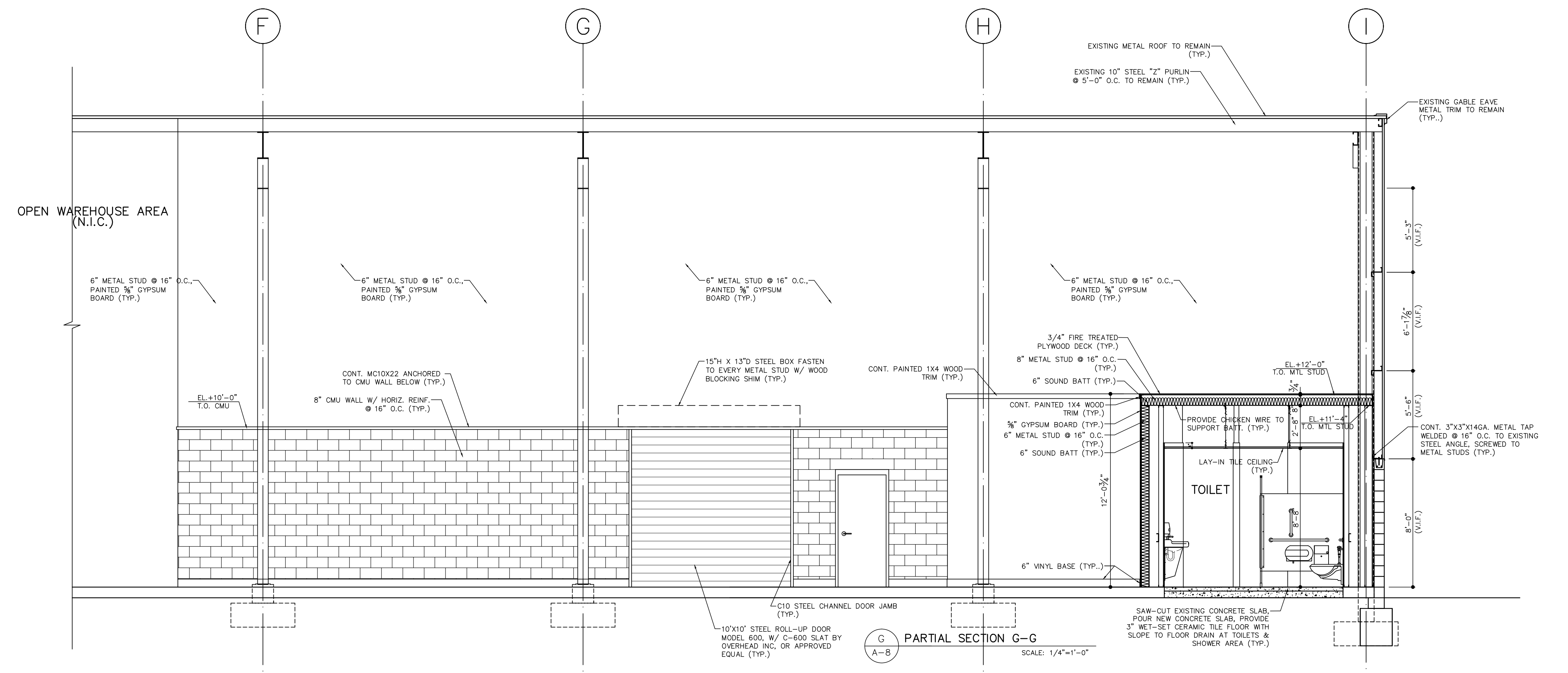
1 GAS TANK STORAGE PLAN  
SCALE: 1/4"=1'-0"



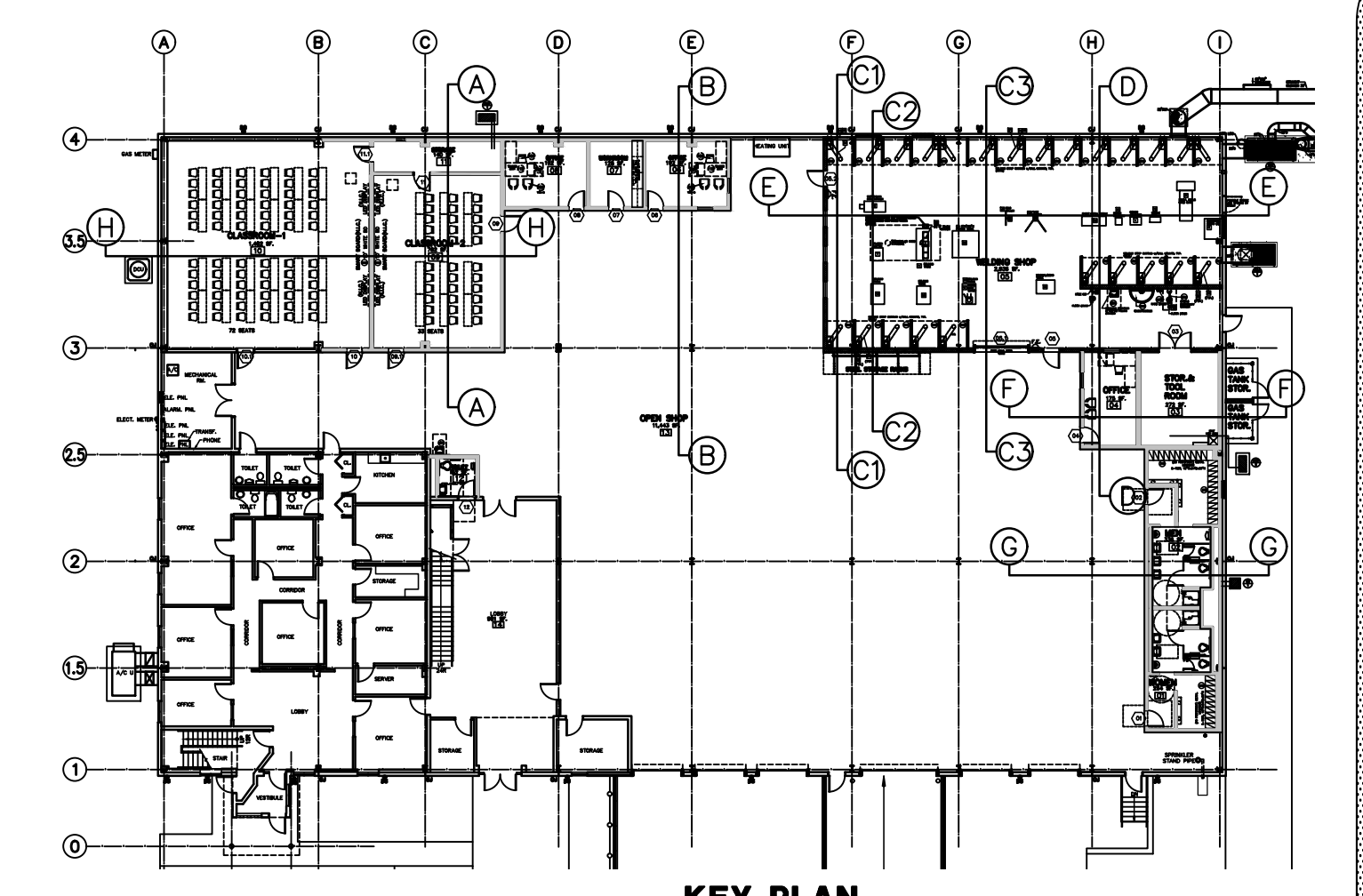
2 GAS TANK STORAGE ELEVATION  
SCALE: 1/4"=1'-0"



3 GAS TANK STORAGE SECTION  
SCALE: 1/4"=1'-0"

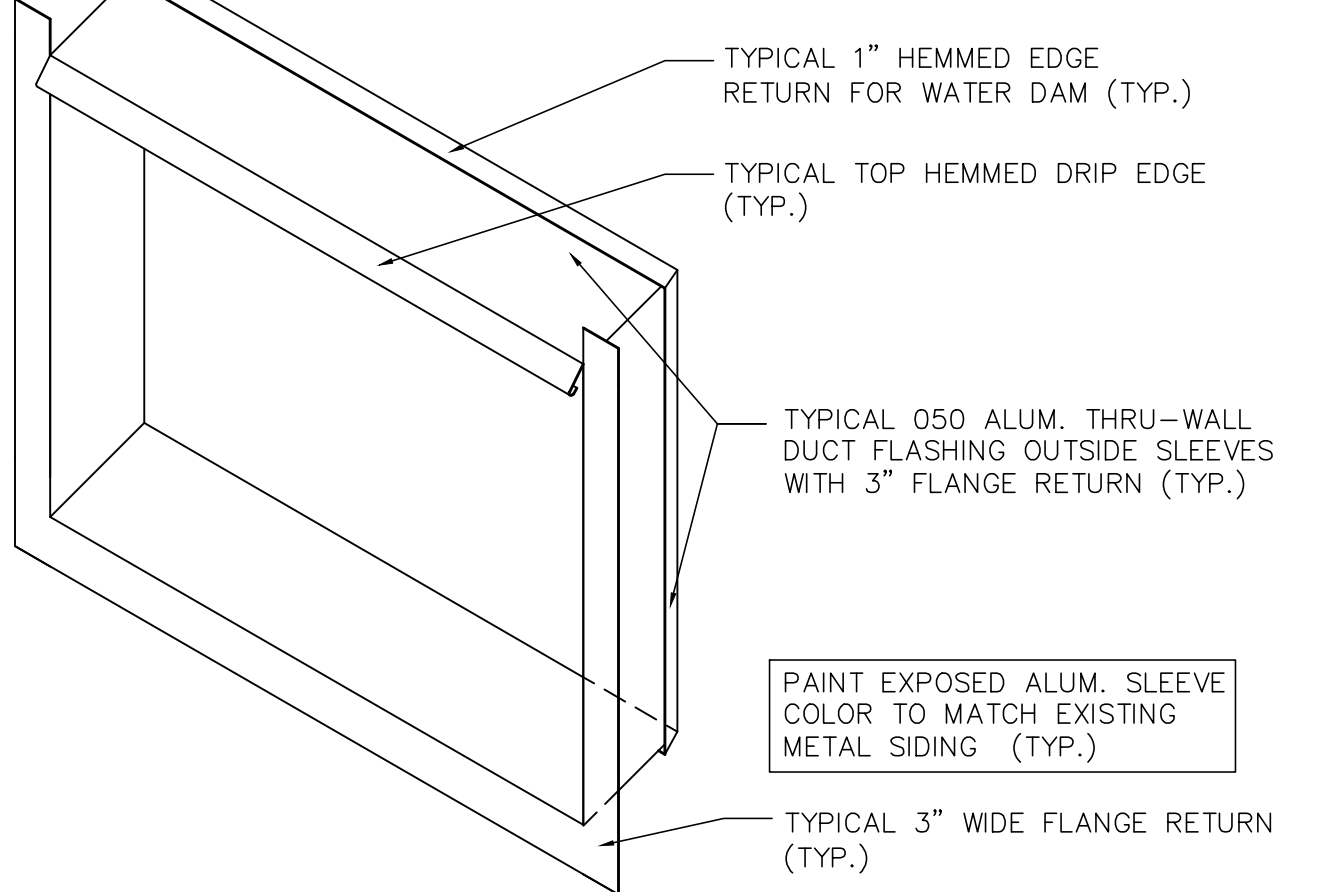
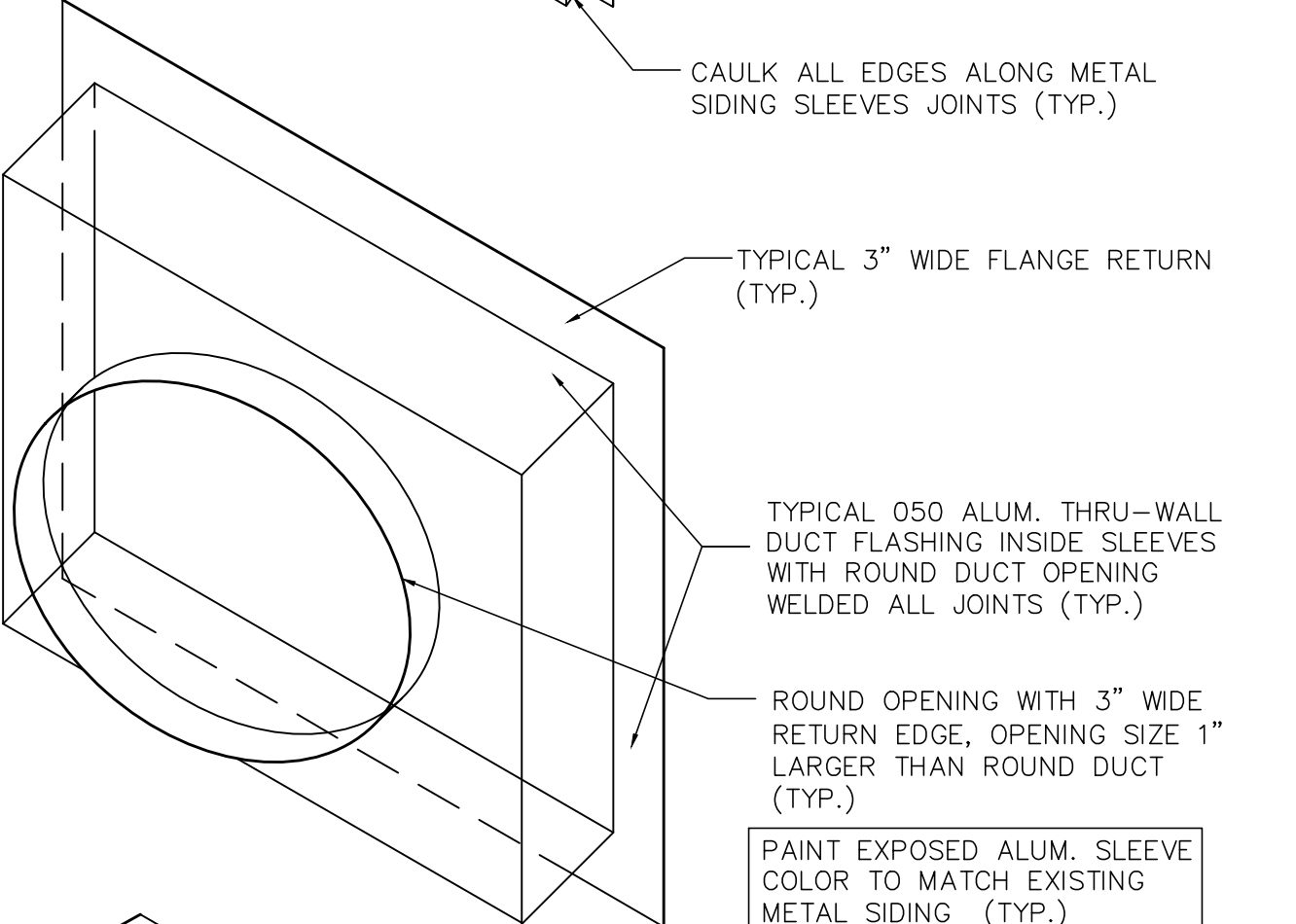
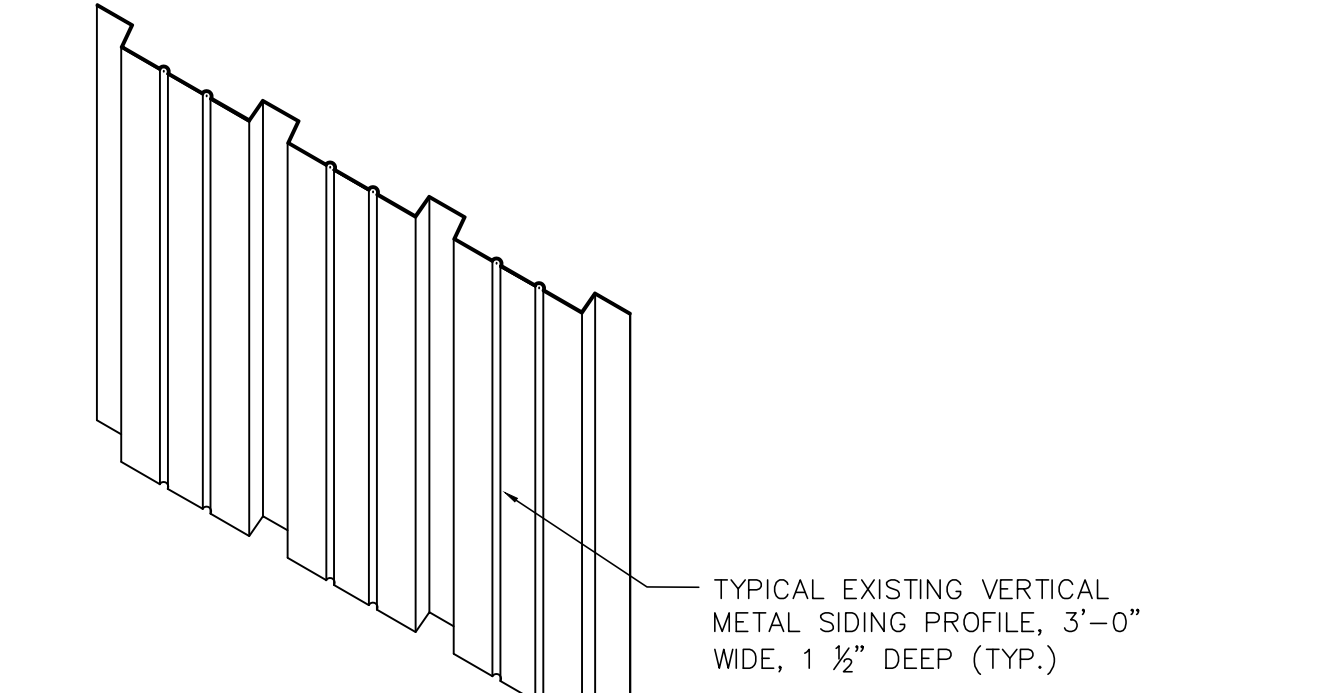
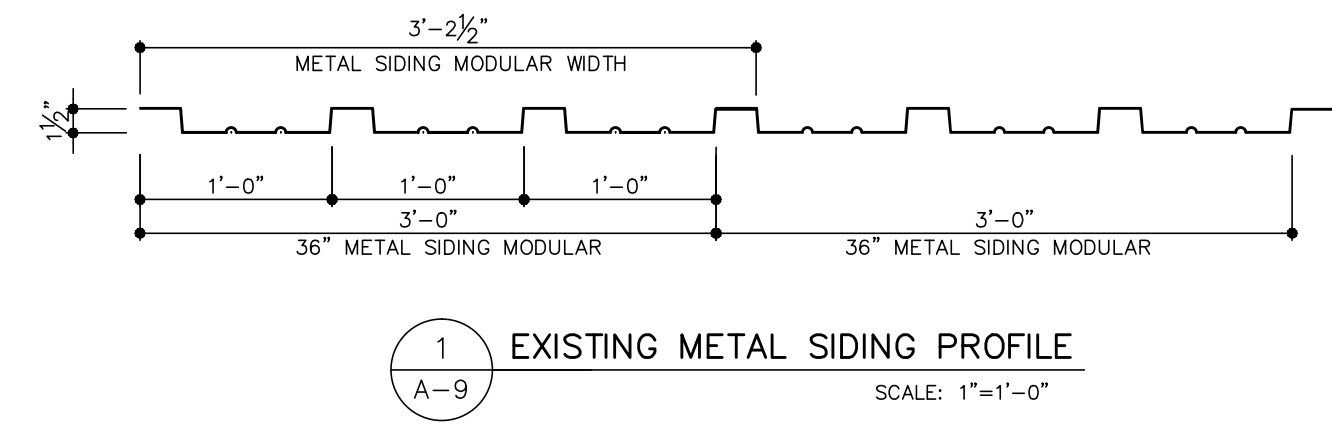


PARTIAL SECTION G-G  
SCALE: 1/4"=1'-0"

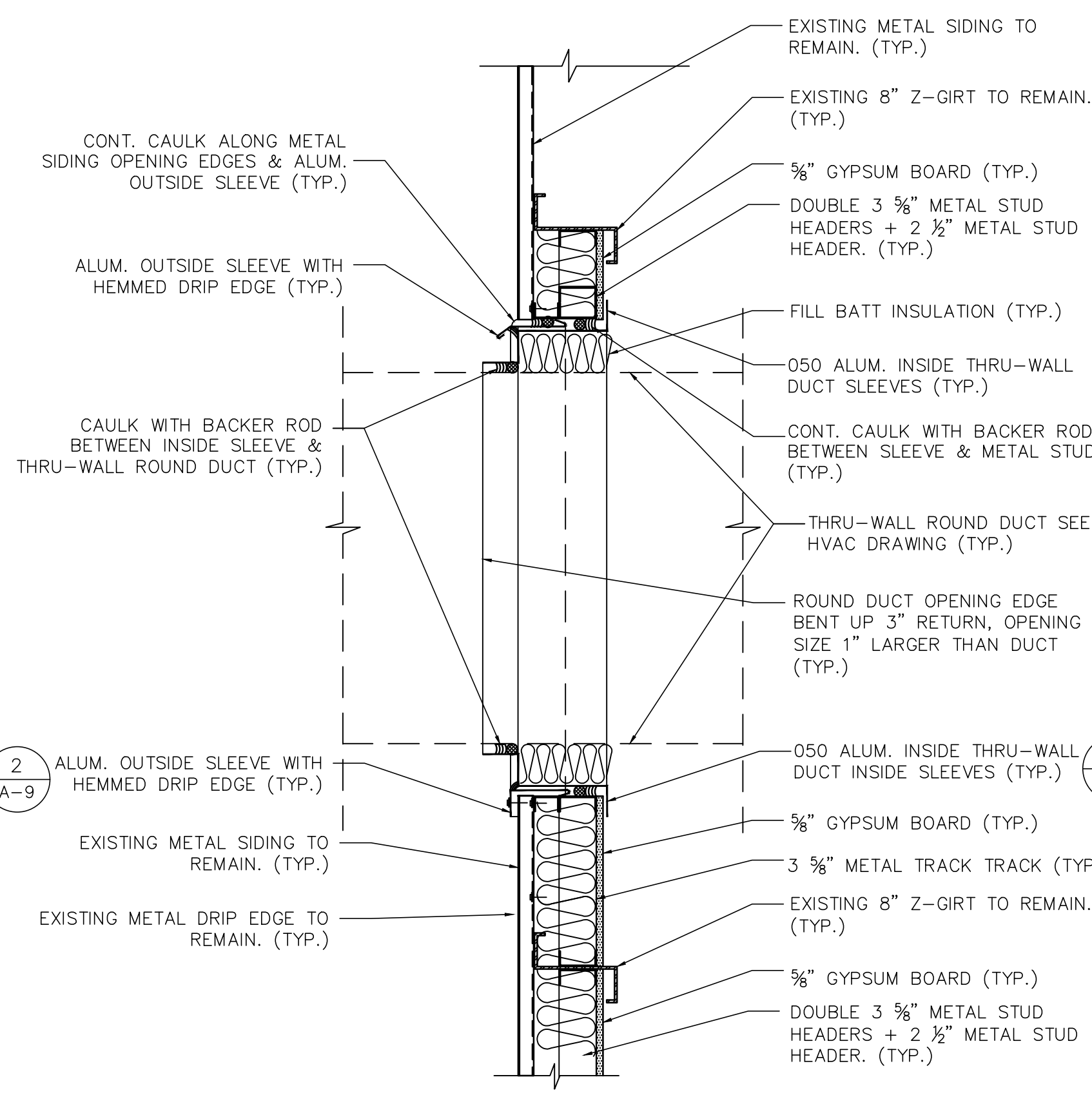


KEY PLAN

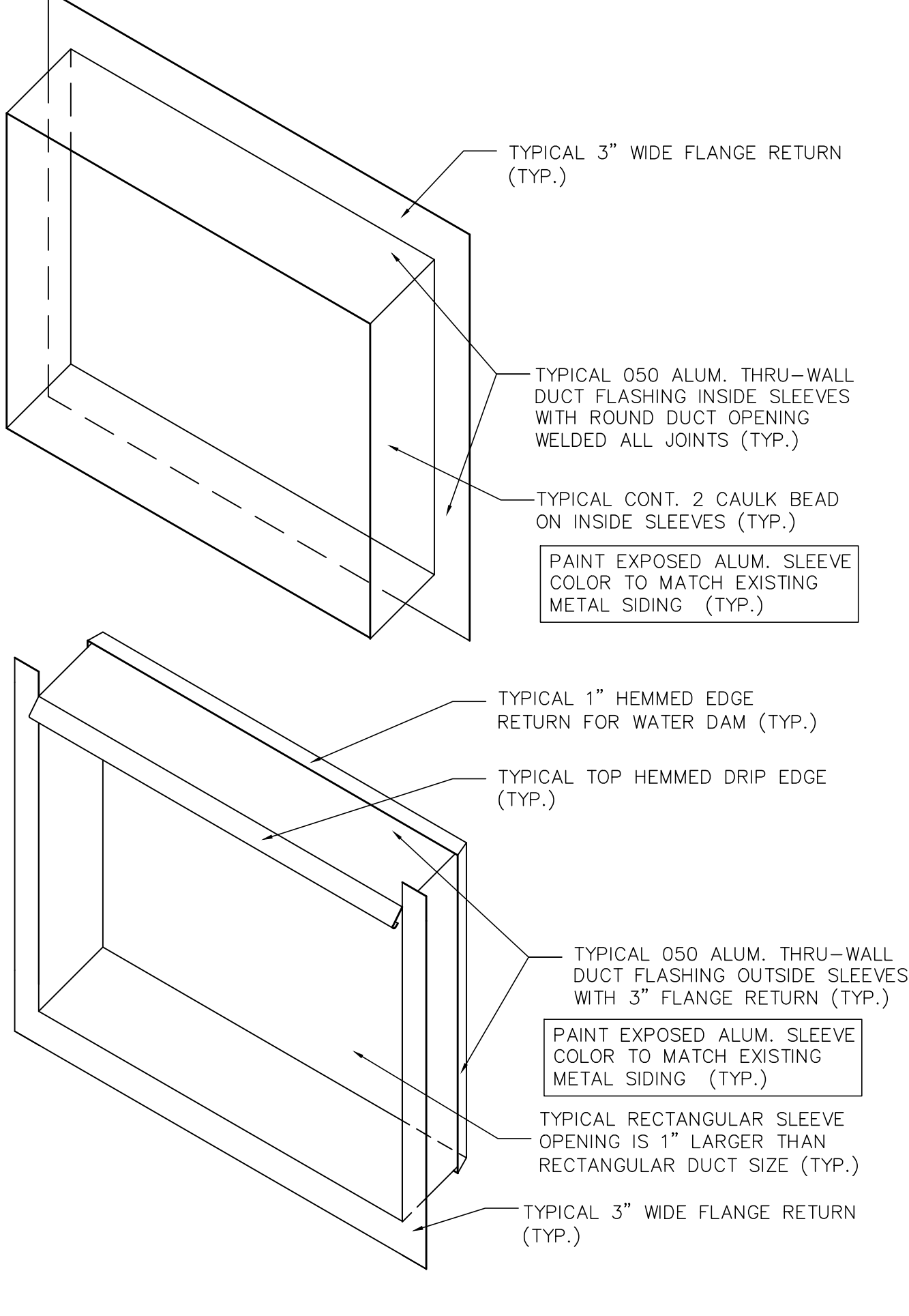
**GA** *rrison* **Architects**  
 715 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-8200  
**IRON WORKERS LOCAL 399**  
**New Welding Training Facility**  
 26 EAST FLEMING PIKE  
 HAMMONTON, NEW JERSEY 08037  
 REVISIONS  
 a. d.  
 b. e.  
 c. f.  
 Project No. 19-13  
 Date: 6-25-19  
 Scale: 1/4"=1'-0"  
**SECTIONS IV**  
**A-8**



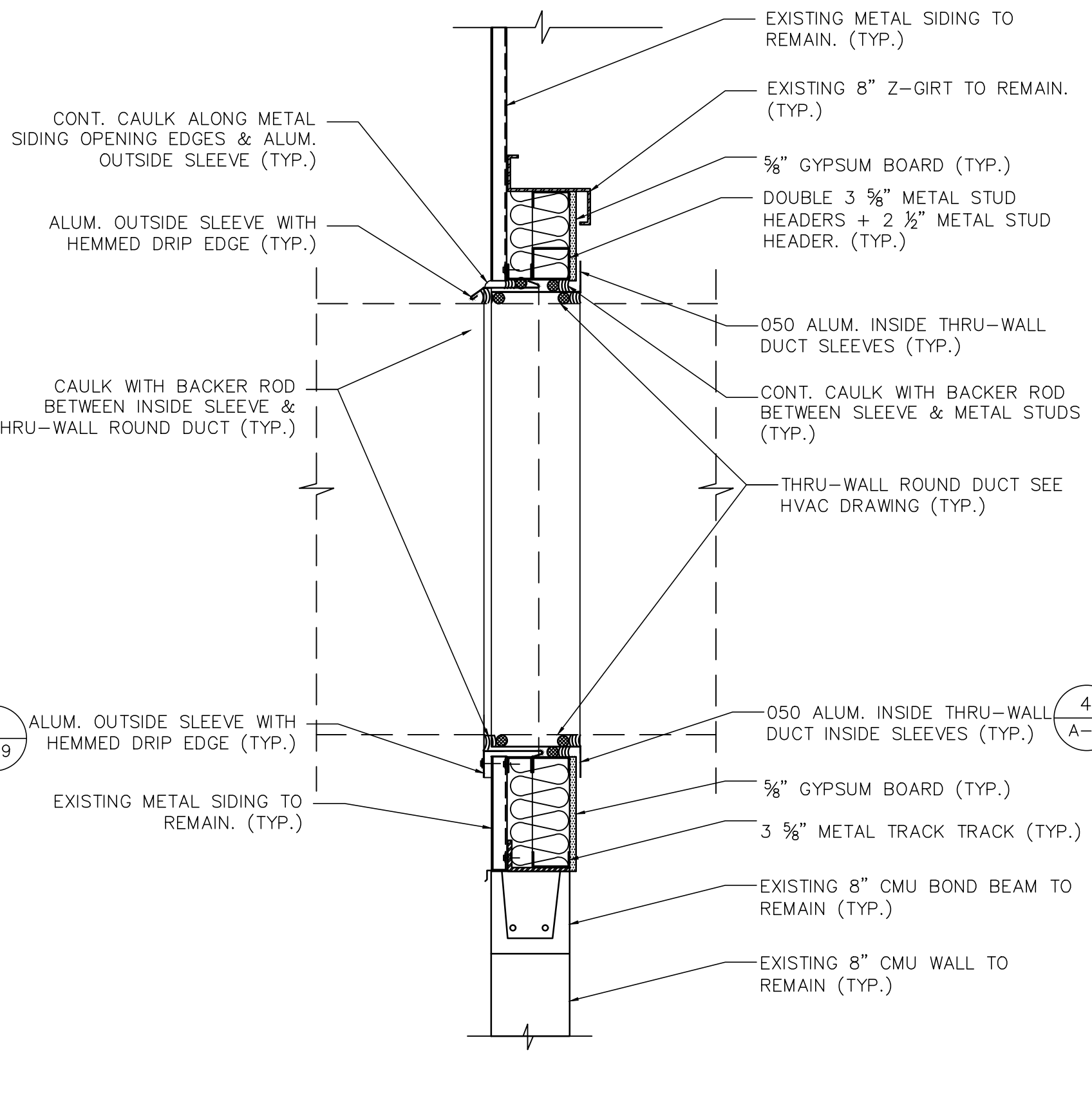
2 ROUND DUCT THRU METAL SIDING FLASHING ISOMETRIC. Scale: 1/4"=1'-0"



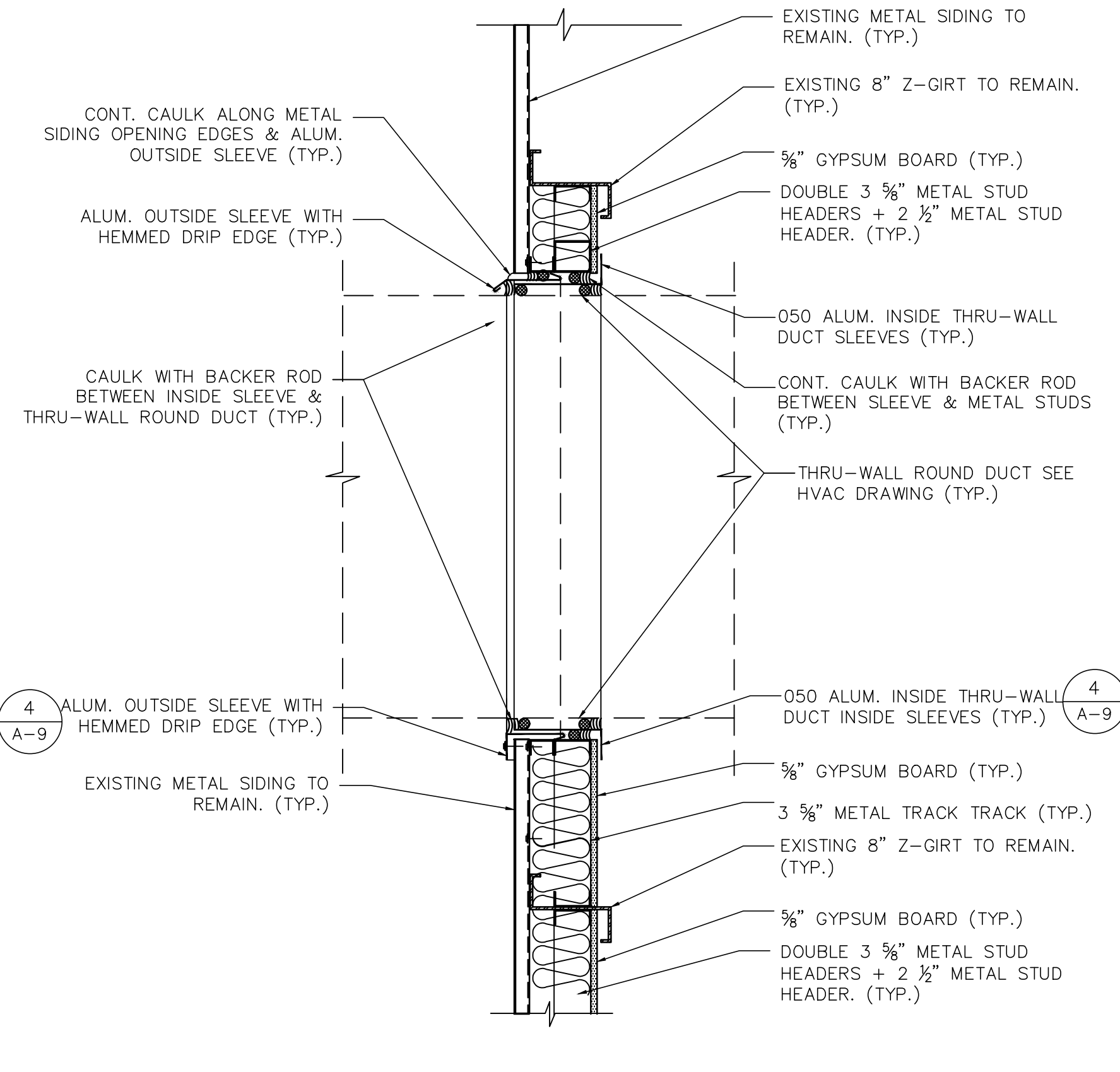
3 ROUND DUCT THRU METAL SIDING FLASHING SECTION. Scale: 1/4"=1'-0"



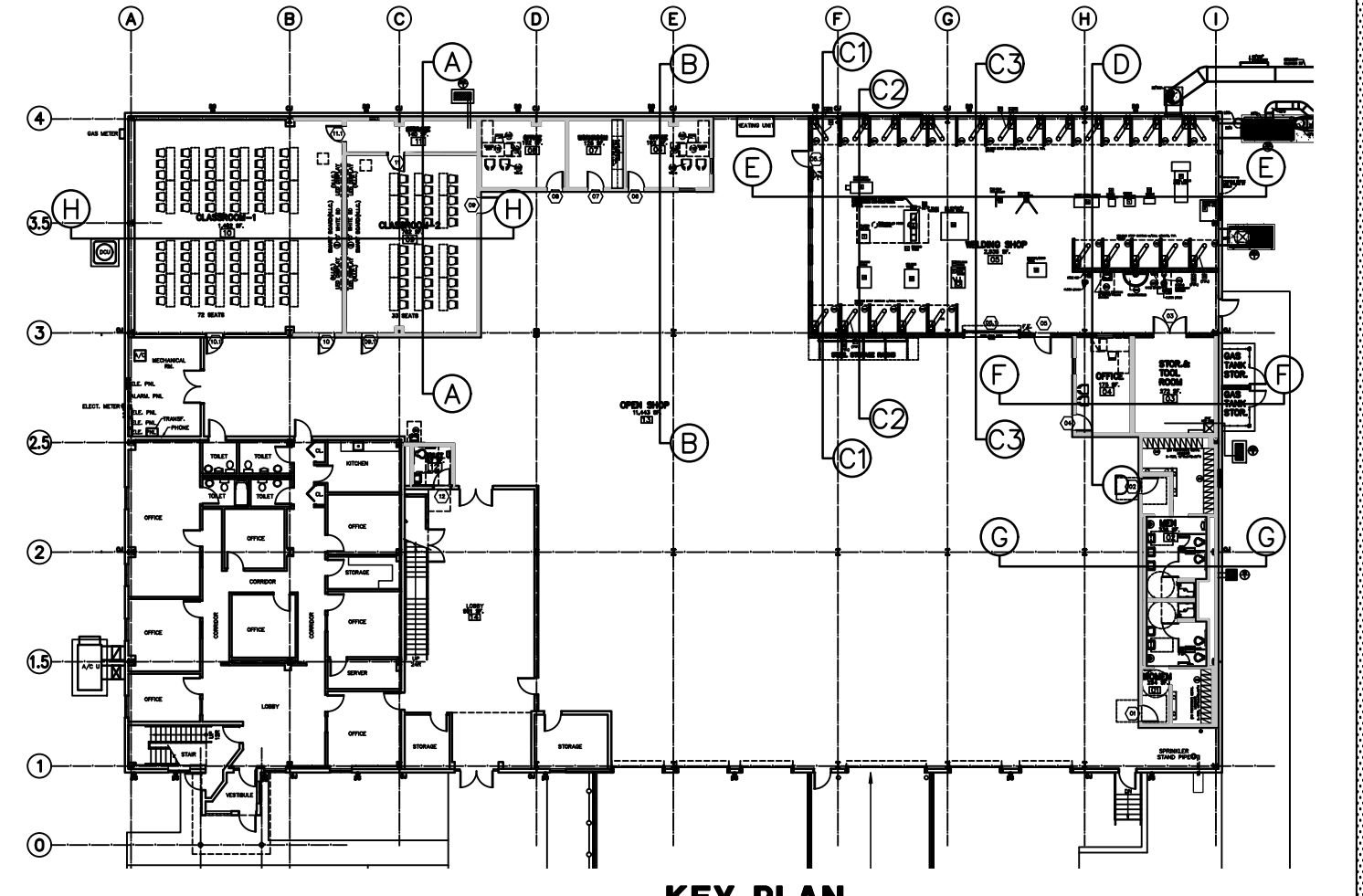
4 RECTANGULAR DUCT/LOUVER THRU METAL SIDING FLASHING ISOMETRIC. Scale: 1/4"=1'-0"



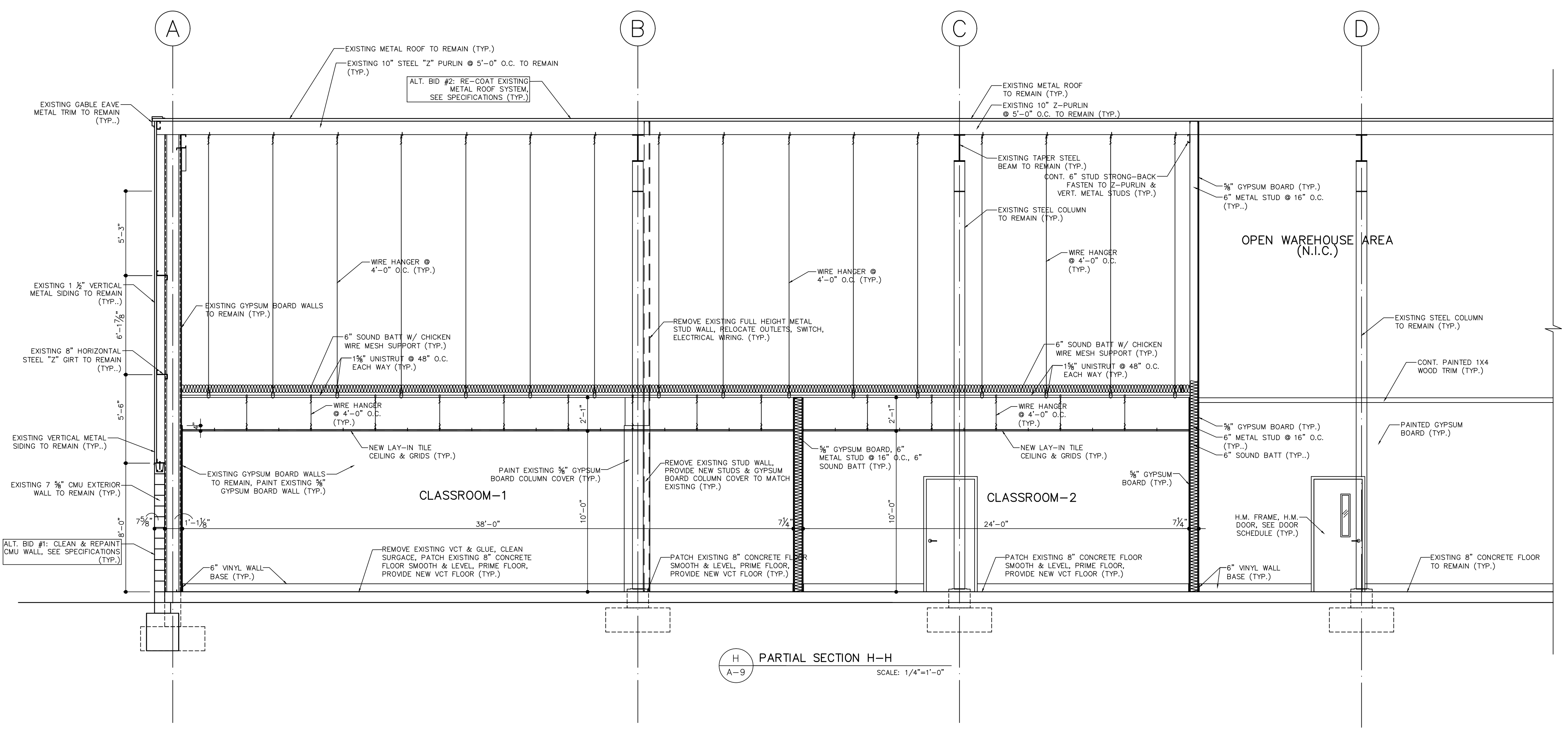
5 RECTANGULAR DUCT/LOUVER THRU METAL SIDING FLASHING SECTION. Scale: 1/4"=1'-0"



6 RECTANGULAR DUCT/LOUVER THRU METAL SIDING FLASHING SECTION. Scale: 1/4"=1'-0"



KEY PLAN



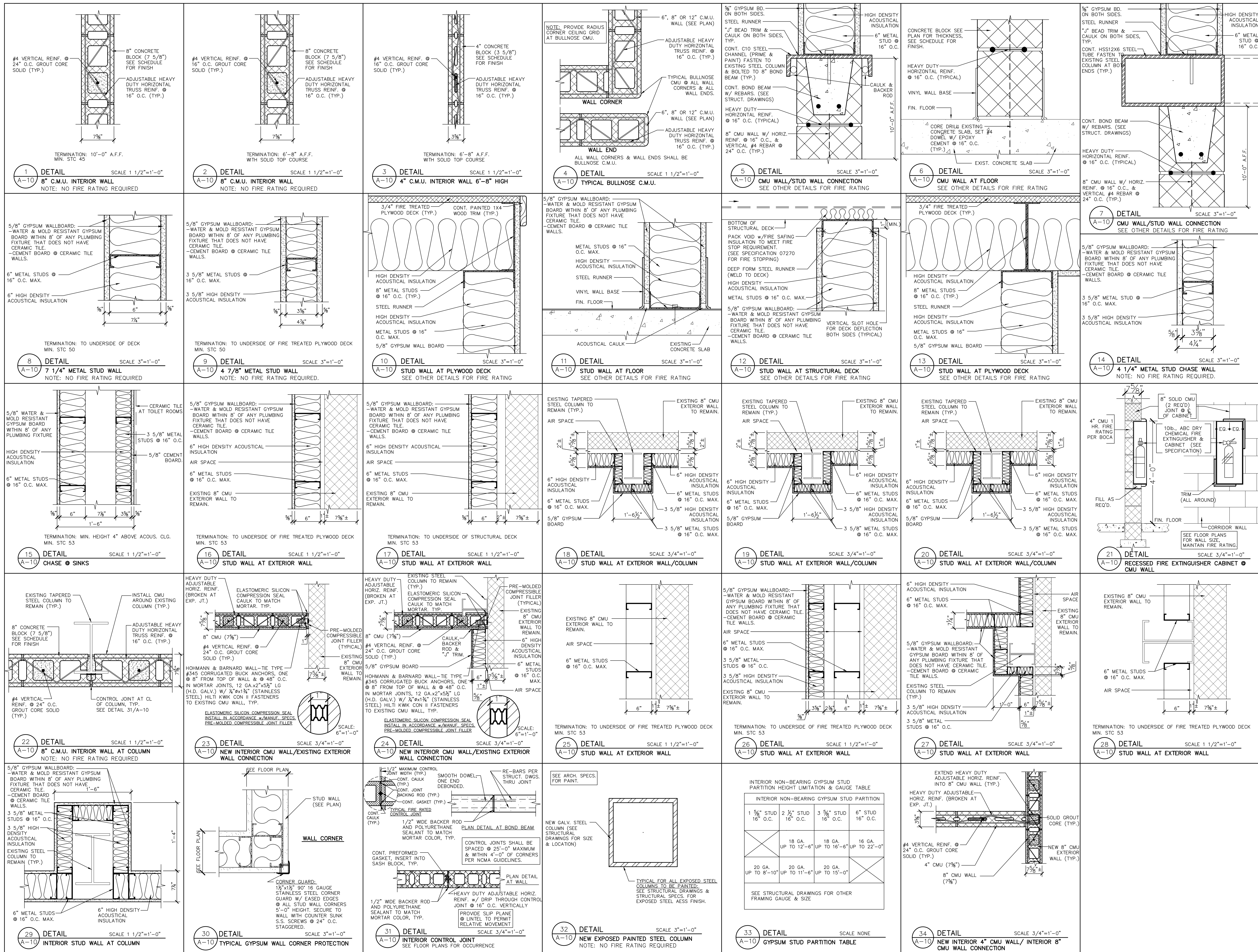
H PARTIAL SECTION H-H. Scale: 1/4"=1'-0"

REVISIONS

a.	d.
b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED

SECTIONS V



# ROOM AND FINISH SCHEDULE

\* ENTIRE BUILDING WITH AUTOMATIC SPRINKLER SYSTEM

FL.	ROOM NO.	ROOM NAME	NEW FLOOR	NEW BASE	NEW WALLS	FIRE RATING (HOUR)	NEW CEILING	NEW CEILING HT.	INTERIOR FINISH CLASSIFICATION	CEILING TILE TYPE	REMARKS
LOWER FLOOR	01	WOMEN	CERAMIC TILE	TILE COVE BASE	*CERAMIC TILE	0	LAY-IN	8'-8"	C	A	*3" WET-SET AT TOILET/SHOWER FLOOR, & THIN SET AT LOCKERS AREA.
	02	MEN	CERAMIC TILE	TILE COVE BASE	*CERAMIC TILE	0	LAY-IN	8'-8"	C	A	*3" WET-SET AT TOILET/SHOWER FLOOR, & THIN SET AT LOCKERS AREA.
	03	STORAGE & TOOL ROOM	VCT	VINYL	PAINTED CMU/GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	04	OFFICE	VCT	VINYL	PAINTED CMU/GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	05	WELDING SHOP	SEALED CONCRETE	NO BASE	PAINTED CMU	0	FULL	—	C	—	
	06	OFFICE	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	07	WORKROOM	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	08	OFFICE	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	09	CLASSROOM-2	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	10'-0"	C	A	
	10	CLASSROOM-1	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	10'-0"	C	A	
	11	STORAGE	VCT	VINYL	PAINTED GYPSUM BOARD	0	LAY-IN	9'-0"	C	A	
	12	TOILETS	CERAMIC TILE	TILE COVE BASE	CERAMIC TILE	0	LAY-IN	8'-8"	C	A	THIN SET AT TOILET AREA.
	13	EXISTING OPEN SHOP	—	—	PAINT NEW WALLS ONLY	0	—	FULL HEIGHT	—	—	PAINT ONLY NEW WALLS & PARTITIONS
	14	EXISTING LOBBY	VCT	VINYL BASE	PAINT EXISTING REAR WALL ONLY	0	—	FULL HEIGHT	—	—	PAINT ONLY REAR GYPSUM WALL

CLASSROOM OF MATERIALS	SURFACE BURNING CHARACTERISTIC TEST
A	0 TO 25
B	26 TO 75
C	76 TO 200

### REMARKS

- WITH HOLD DOWN CLIPS WITHIN 12'-0" FROM EXTERIOR DOORS
- WITH HOLD DOWN CLIPS 6'-0" OUT FROM THE PIPE CHASE WALL IN GANG TOILETS
- 5'x7' SURFACE FLOOR MAT AT EXTERIOR DOORS

### CEILING FINISH TYPES

- 2'x4' LAY-IN TILE (NON-RATED) MOISTURE-RESISTANT w/ GRID
  - EXPOSED CEILING STRUCTURE, STEEL JOIST, DECK, DUCT, PIPE CONDUIT...TO BE PAINTED
  - 6" JST @ 16" O.C. W/5/8" FIBEROCK INTERIOR & 5/8" CEMENT BOARD TOP
  - EXPOSED CEILING STRUCTURE, CONCRETE DECK, DUCT, PIPE CONDUIT...TO BE PAINTED
- NOTES:**
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT AND LIGHTING.
  - CEILING LIGHT LOCATIONS TO BE COORDINATED WITH LIGHTING AND MECHANICAL DRAWINGS FOR MECH. DUCT CLEARANCE (TYP.)

NOTE: (FIRE RATING) ALL WALL, CEILING, FLOOR OR ROOF CONSTRUCTION SHALL MEET ALL FIRE RATING INDICATED IN EACH ROOM AREA ON THE SCHEDULE.

- ALL INTERIOR FINISHES SHALL MEET MINIMUM FLAME SPREAD CLASSROOM REQUIREMENT. (BASED ON IBC 2015, NEW JERSEY EDITION)
- ALL CEILING PANELS SHALL MEET CLASS A REQUIREMENT.
- SPRAY FIREPROOFING MATERIAL ON EXPOSED STEEL BEAMS, COLUMNS, BAR-JOISTS & STEEL DECK IN ORDER TO MEET FIRE RATING.

IT IS CONTRACTOR'S RESPONSIBILITY TO REMOVE, PATCH, REPAIR EXISTING FLOOR, BASE, WALL, CEILING IN AREAS AS NOTED IN THIS SCHEDULE; TO RECEIVE NEW FINISH MATERIAL OR PAINT.

**DEMOLITION WORK:**  
SEE DEMO PLANS, NOTES, AND SPECIFICATION FOR DEMO WORK.(TYP.)

**CEILING WORK:**  
SEE REFLECTED CEILING PLANS, NOTES & SPECIFICATION FOR CEILING WORK & CEILING HEIGHT(TYP.).

IF SURFACE HAS NO WORK LISTED IN THIS SCHEDULE BUT CUT, MODIFIED BY OTHER PRIME CONTRACTORS TO PERFORM THEIR WORK, IT IS THE RESPONSIBILITY OF EACH OF THOSE PRIME CONTRACTOR TO PATCH, REPAIR, PAINT THE SURFACE TO ITS ORIGINAL CONDITION.

**H.V.A.C.WORK:**  
SEE MECHANICAL & PLUMBING DRAWINGS, MECH./PLUMB. DEMO PLANS, NOTES, SPECIFICATIONS FOR H.V.A.C. & PLUMBING DEMOLITION AND NEW WORKS (TYP.).

EXISTING FLOOR & BASE FINISH INDICATED IS ONLY THE TOP VISIBLE FINISH. SOME ROOMS MAY HAVE OTHER FINISHES BELOW. CONTR. TO CHECK EACH ROOM FINISH ON SITE AND TO REMOVE ALL LAYERS ABOVE STRUCTURAL SLAB AND INSTALL NEW FLOOR & BASE.

**ELECTRICAL WORK:**  
SEE ELECTRICAL DRAWINGS, NOTES, SPECIFICATIONS FOR ELECTRICAL WORKS(TYP.).

**FIRE PROTECTION:**  
SEE FIRE PROTECTION DWGS FOR SPRINKLERED AREAS(TYP.).

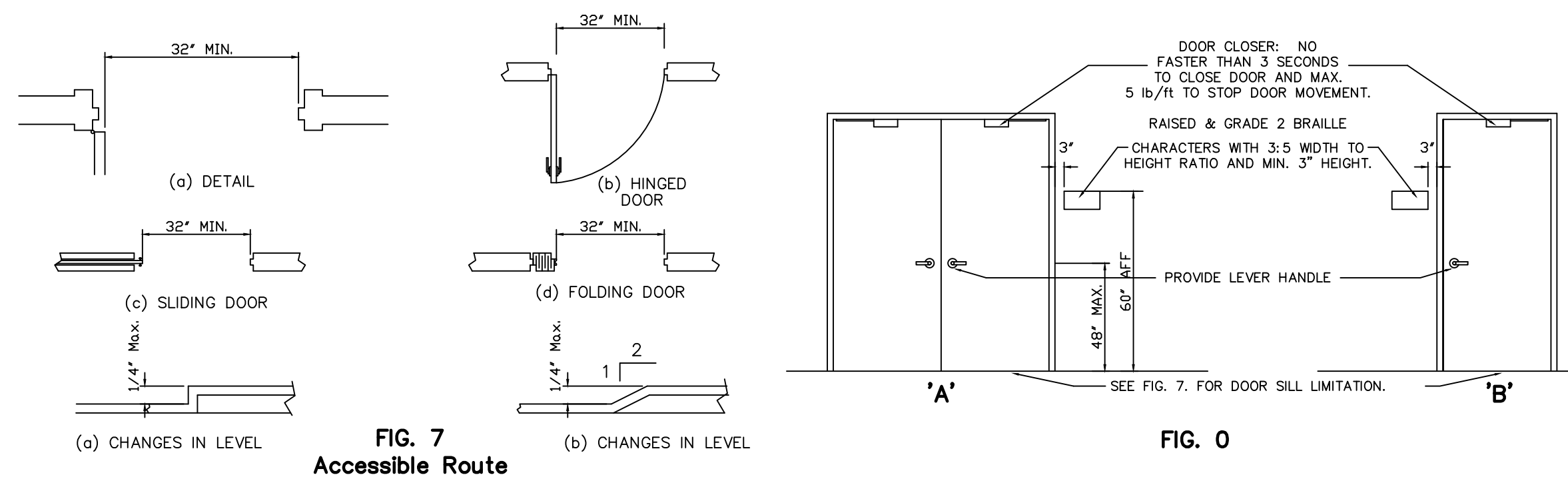


FIG. 7 Accessible Route

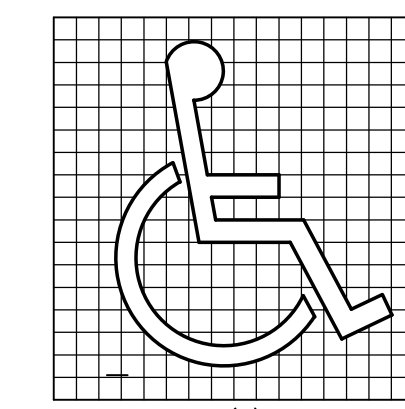
FIG. 8

### ALL DOORS RECEIVE NEW SIGNAGE (TYP.)

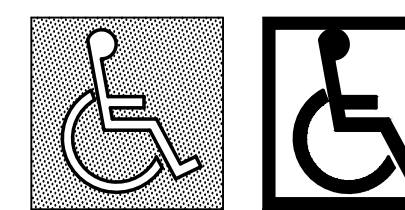
**SIGNAGE:** ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI 117.1 ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE. INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN. OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 0 & FIG. 8.

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE, PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.



(a) Proportions International Symbol of Accessibility



(b) Display Conditions International Symbol of Accessibility

Raised and Braille Characters and Pictorial Symbol Signs (Pictograms). Letters and numerals shall be raised 1/32 in. upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 in. (16 mm) high, but no higher than 2 in. (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 in. (152 mm) minimum in height.

### ENTRANCE DOORS & OTHER DOORS IN SPACE

PROVIDE ENTRANCE DOOR AS 'A' AND 'B' FIG. 0, FROM ALL CORR. & LOBBIES. PROVIDE OTHER DOORS IN SPACE AS 'A' AND 'B', FIG. 0, FROM ROOMS TO OTHER AREAS.

\* INDICATE ADDITIONAL ITEMS, IF APPLICABLE TO THOSE DOORS. ALL DOORS SHALL HAVE CLEAR WIDTH AS SHOWN ON FIG. 24 & SILL HEIGHT LIMIT AS FIG. 7 SHOWN. DOOR HARDWARE SHALL BE NOTED ON FIG. 0.

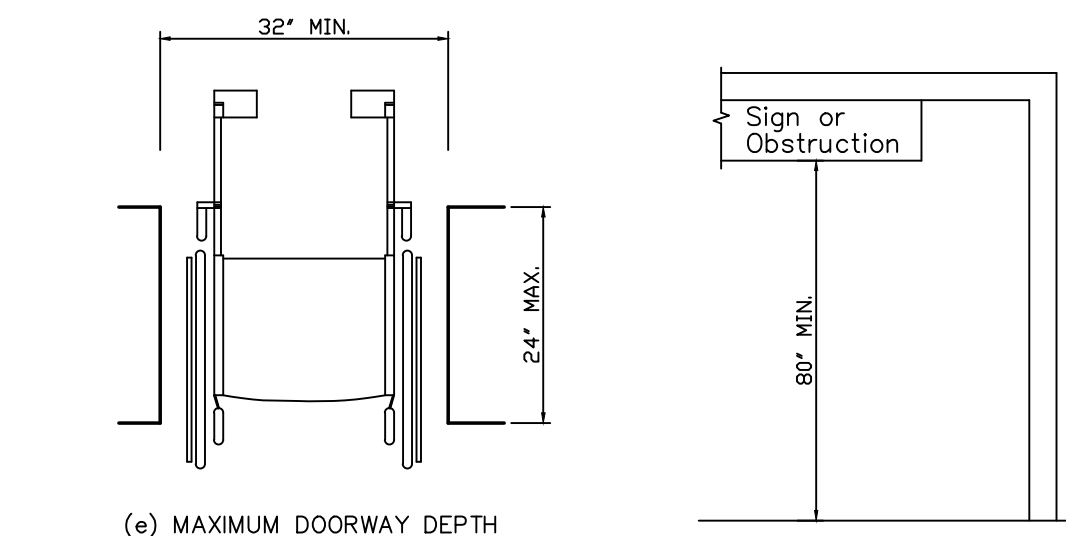
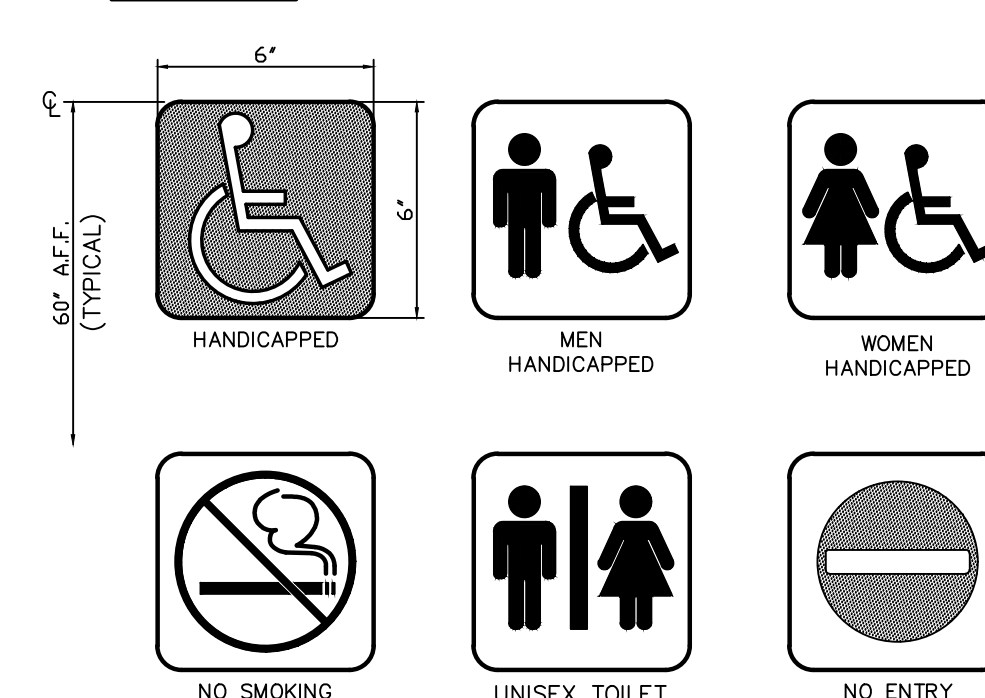


FIG. 24 Clear Doorway Width and Depth

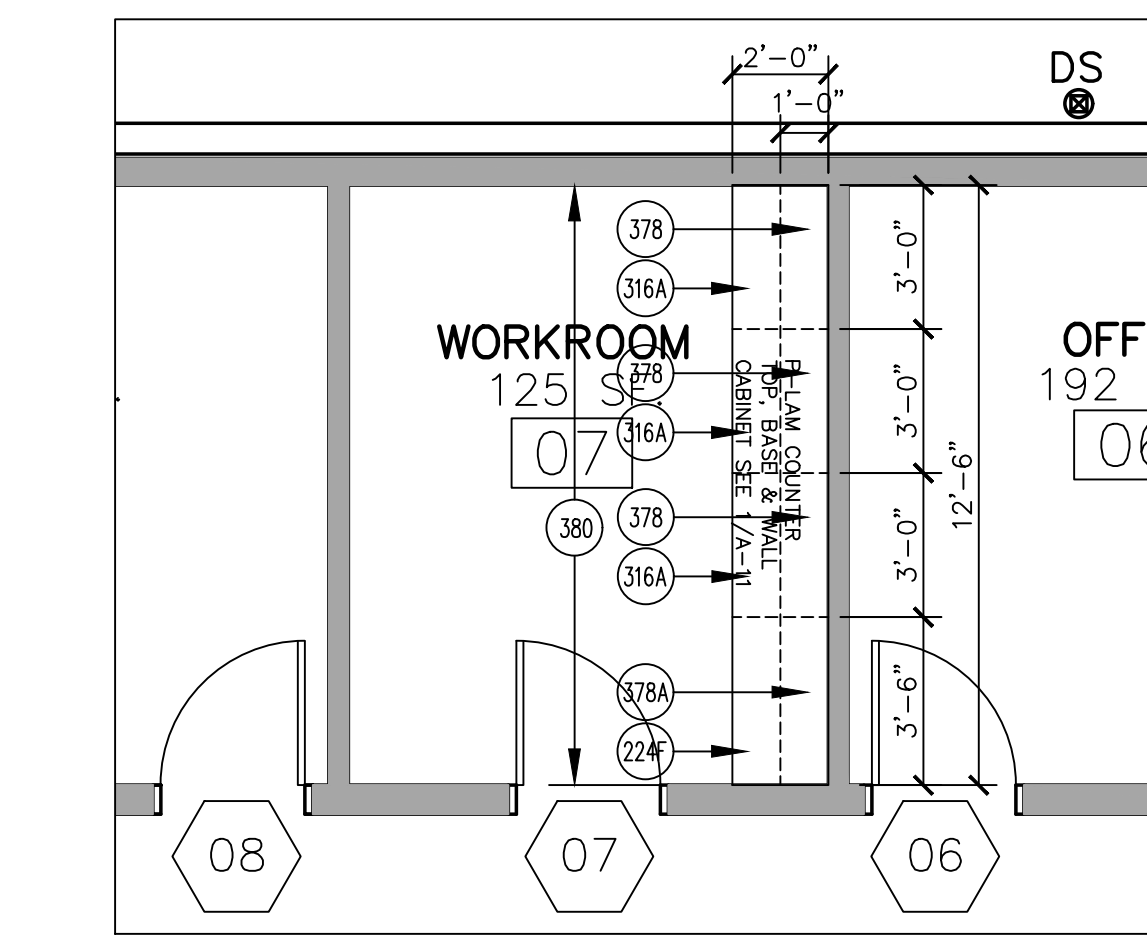
FIG. 8 Protruding Objects

### SYMBOLS:

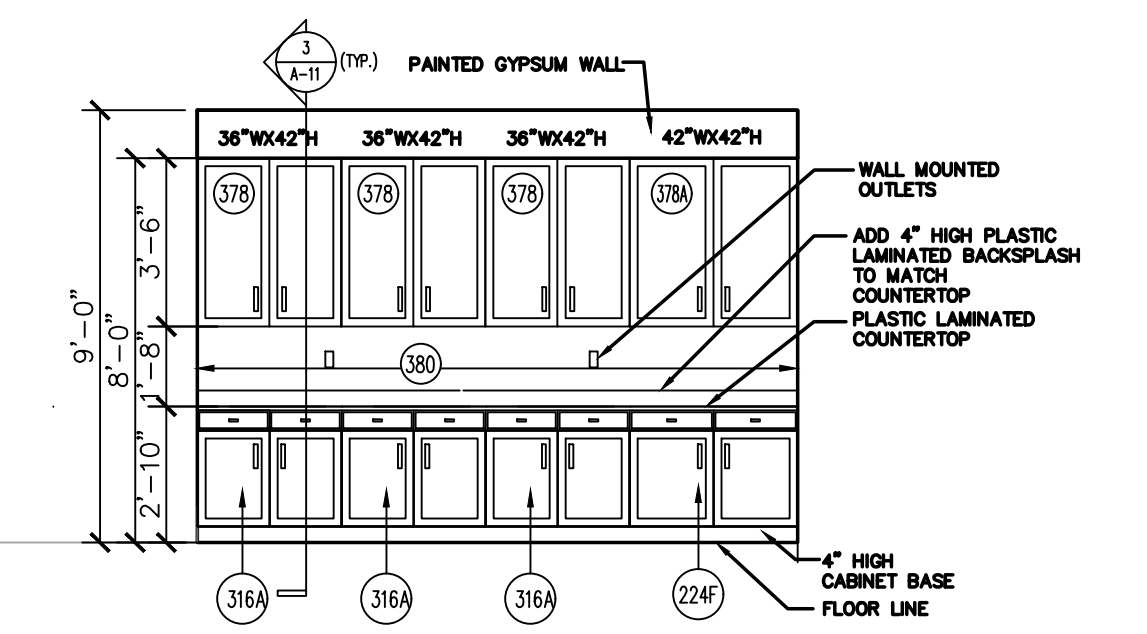


### LIST OF WORKROOM #07 CABINETS & COUNTER:

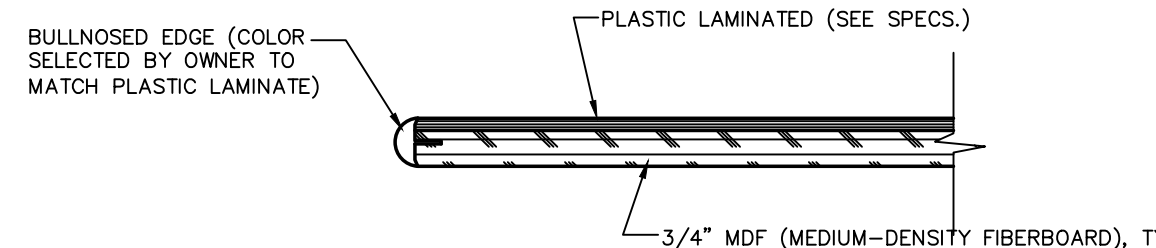
ITEM NUMBER	DESCRIPTION	BASE BID IN CONTRACT
316A	BASE CABINET w/LOCK, 36"Wx24"Dx34"H, LSI MODEL #1102	✓
224F	BASE CABINET w/LOCK, 42"Wx24 1/4"Dx34"H, LSI MODEL #1101	✓
378	WALL CABINET w/LOCK, 36"Wx14 1/4"Dx42"H, LSI MODEL #3102	✓
378A	WALL CABINET w/LOCK, 42"Wx14 1/4"Dx42"H, LSI MODEL #3102	✓
380	CONTINUOUS FULL WIDTH PLASTIC LAMINATED COUNTER TOP & BACKSPLASH,	✓



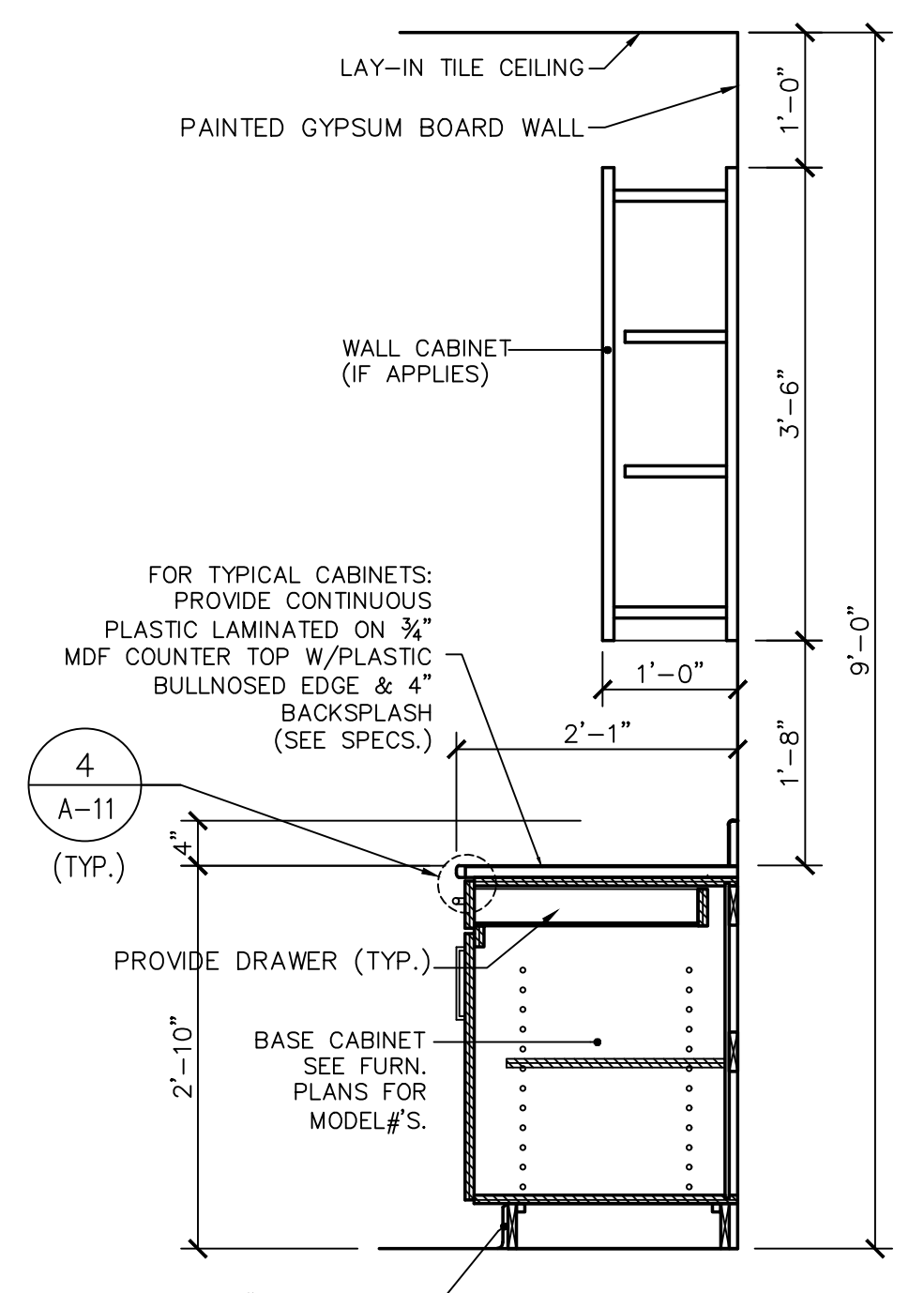
1 ENLARGED WORKROOM FLOOR PLAN  
BUILT-IN CASEWORK AT WORKROOM #07 SCALE: 1/4"=1'-0"



2 WORKROOM #07 ELEVATION  
BUILT-IN CASEWORK AT WORKROOM #07 SCALE: 1/4"=1'-0"



4 COUNTERTOP EDGE DETAIL  
BUILT-IN CASEWORK AT WORKROOM #07 SCALE: 3/4"=1'-0"



3 STANDARD BASE & WALL CABINET SECTION  
BUILT-IN CASEWORK AT WORKROOM #07 SCALE: 3/4"=1'-0"

**Garrison Architects**  
Professional Corporation of Architects and Planners  
713 CREEK ROAD, BELLMAR, NEW JERSEY 08031-396-8200

**IRON WORKERS LOCAL 399**  
New Welding Training Facility  
26 EAST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

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b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
Scale: —

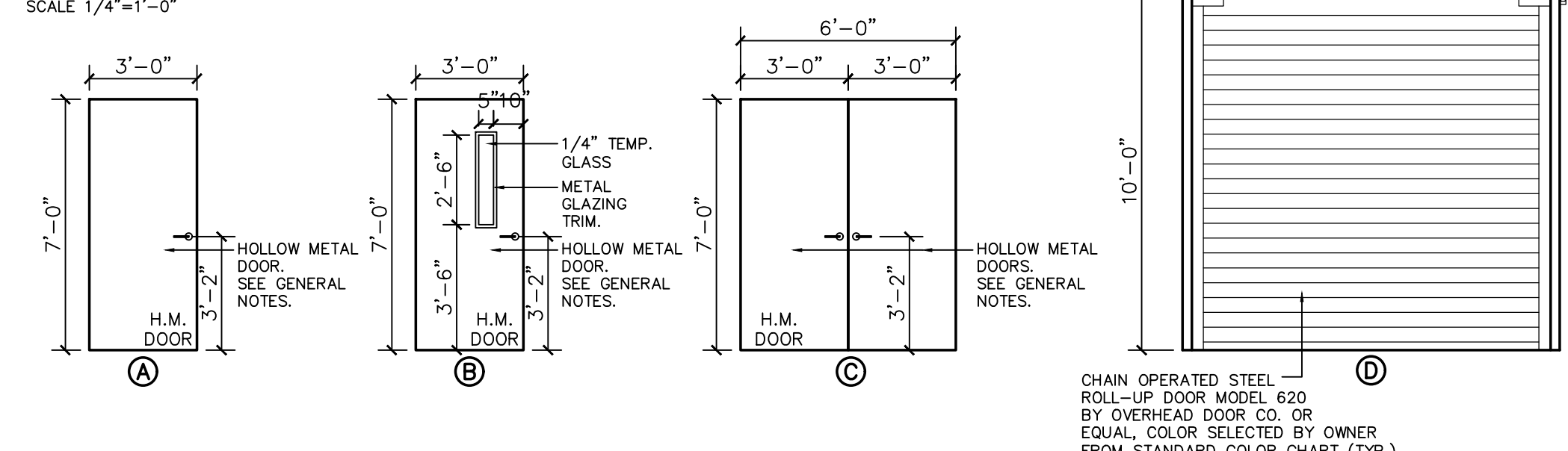
**ROOM FINISH SCHEDULE & MILLWORKS**  
**A-11**



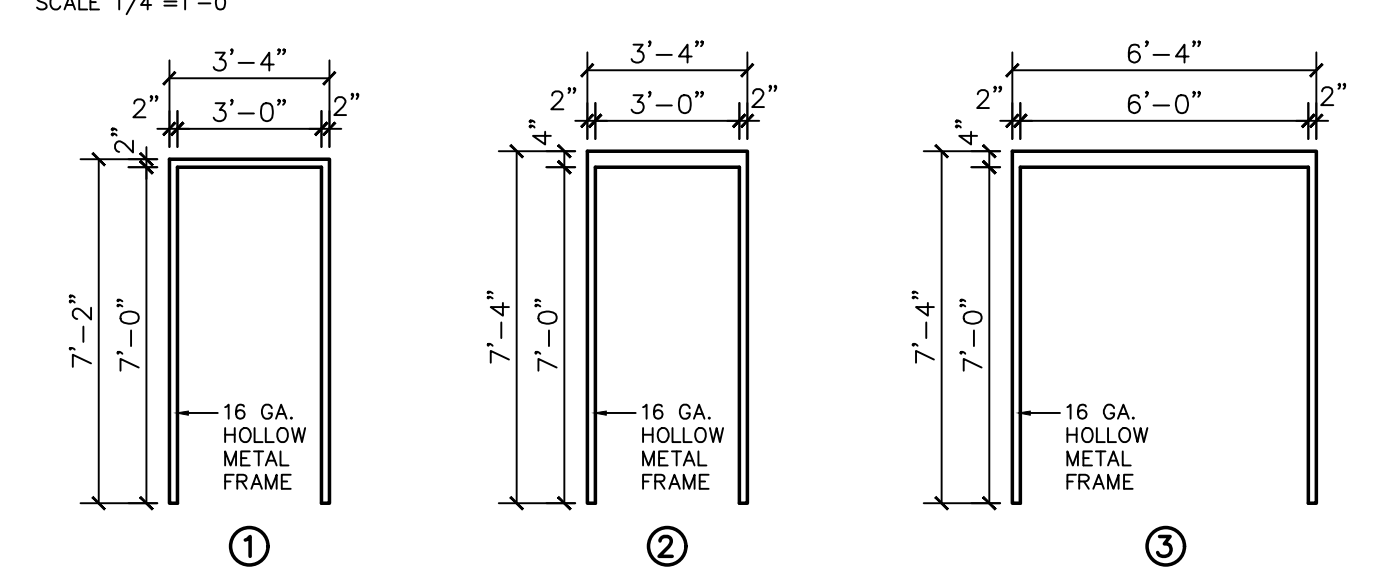
### DOOR AND FRAME SCHEDULE

DR. NO.	FROM ROOM NO.	TO ROOM NO.	TYPE OF ROOM	DOOR				FRAME				REMARKS						
				SIZE	MATERIAL	GAGE	TYPE	TYPE	GAGE	DEPTH	TYPE	HEAD	JAMB	SILL	FIRE RATING (LABEL)	NEW HOLLOW METAL DOOR (SEE GENERAL NOTE #1)	NEW HOLLOW METAL FRAME (SEE GENERAL NOTE #2)	NEW A.D.A. DOOR HARDWARE (SEE GENERAL NOTE #3)
BASE BID																		
01	13	01	WOMEN	3'-0" x 7'-0"	HM	16	A	HM	16	8	3/8"	1	1	2	3			
02	13	02	MEN	3'-0" x 7'-0"	HM	16	A	HM	16	8	3/8"	1	1	2	3			
03	03	05	STORAGE & TOOL RM.	2'-3" x 7'-0"	HM	16	C	HM	16	8	3/4"	3	7	8	9			
04	13	04	OFFICE	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
05	05	13	WELDING SHOP	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		2	10	11	12			
05.1	05	13	WELDING SHOP	10'-0" x 10'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
05.2	05	13	WELDING SHOP	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		2	10	11	12			
06	13	06	OFFICE	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
07	13	07	WORKROOM	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
08	13	08	OFFICE	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
09	09	13	CLASSROOM-2	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
09.1	09	13	CLASSROOM-2	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
10	10	13	CLASSROOM-1	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
10.1	10	13	CLASSROOM-1	3'-0" x 7'-0"	HM	16	B	TEMP	1/4"	5x30		1	4	5	6			
11	11	09	STORAGE	3'-0" x 7'-0"	HM	16	A					1	13	14	15			
11.1	11	10	STORAGE	3'-0" x 7'-0"	HM	16	A					1	4	5	6			
12	LOBBY	12	TOILET	3'-0" x 7'-0"	HM	16	A	MARBLE	002	HM	16	10"	1	16	17	18		

**DOOR TYPES:**



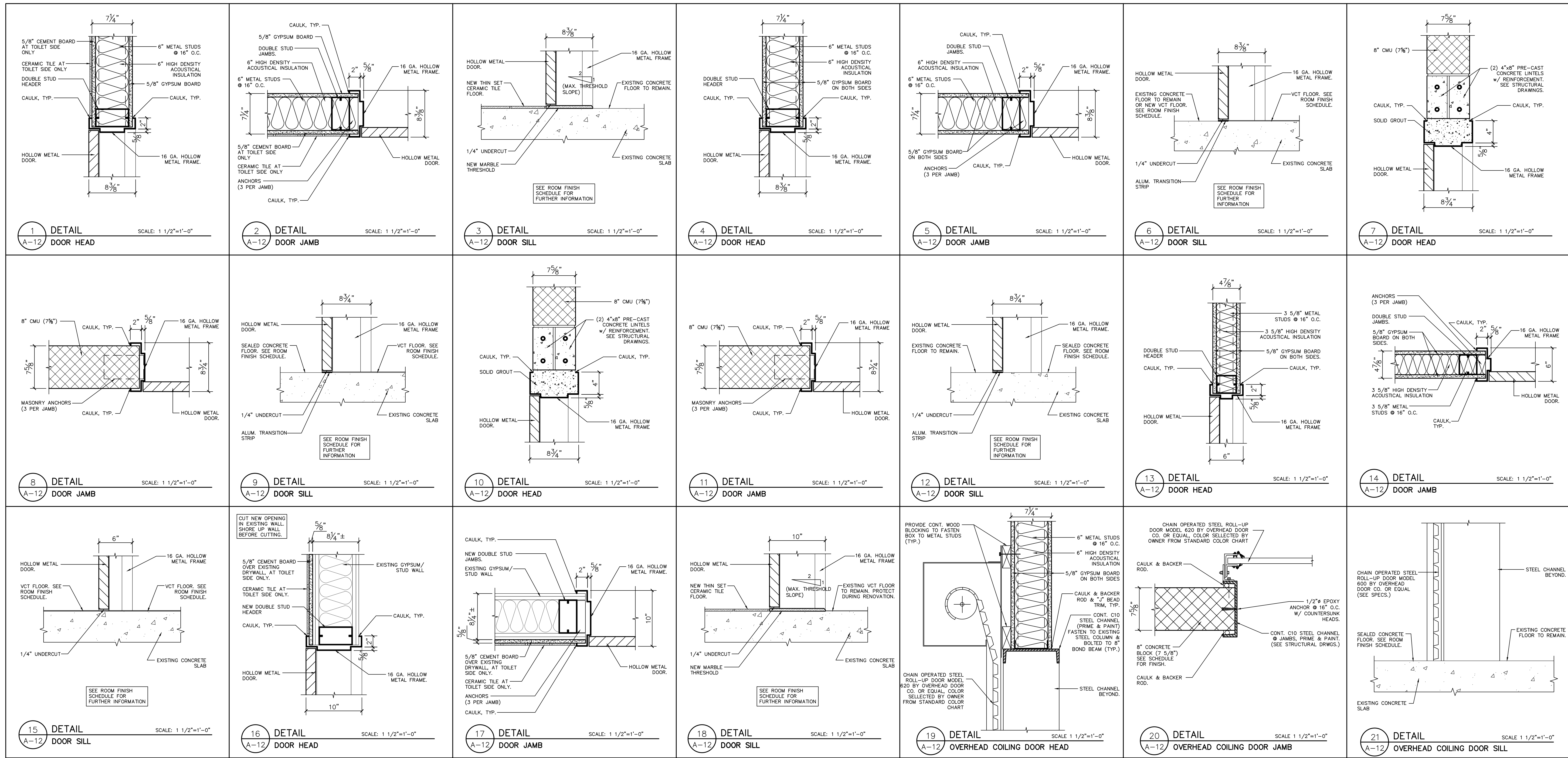
**FRAME TYPES:**



**GENERAL NOTES:**

- CUT VISION PANEL OPENING INTO NEW DOORS & INSTALL METAL GLAZING TRIM & TEMPERED GLASS. TYPICAL FOR ALL DOORS W/ VISION PANEL.
- ALL GLAZING OPENINGS ON DOORS SHALL BE MIN. 5" TO ANY HARDWARE.
- ALL NEW HOLLOW METAL DOORS TO BE PAINTED, COLOR TO BE SELECTED BY OWNER.
- ALL NEW HOLLOW METAL FRAMES TO BE PAINTED, COLOR TO BE SELECTED BY OWNER.
- ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH UCC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1-2009.
- ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (+/-) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
- PROVIDE A FLUSH FILLED FINISH AT ALL DOOR FRAMES THAT REQUIRE MASONRY ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION.

ALL NEW INTERIOR DOORS SHOWN ON THE DOOR SCHEDULE SHALL RECEIVE NEW SIGNAGE. SEE ROOM FINISH SCHEDULE.



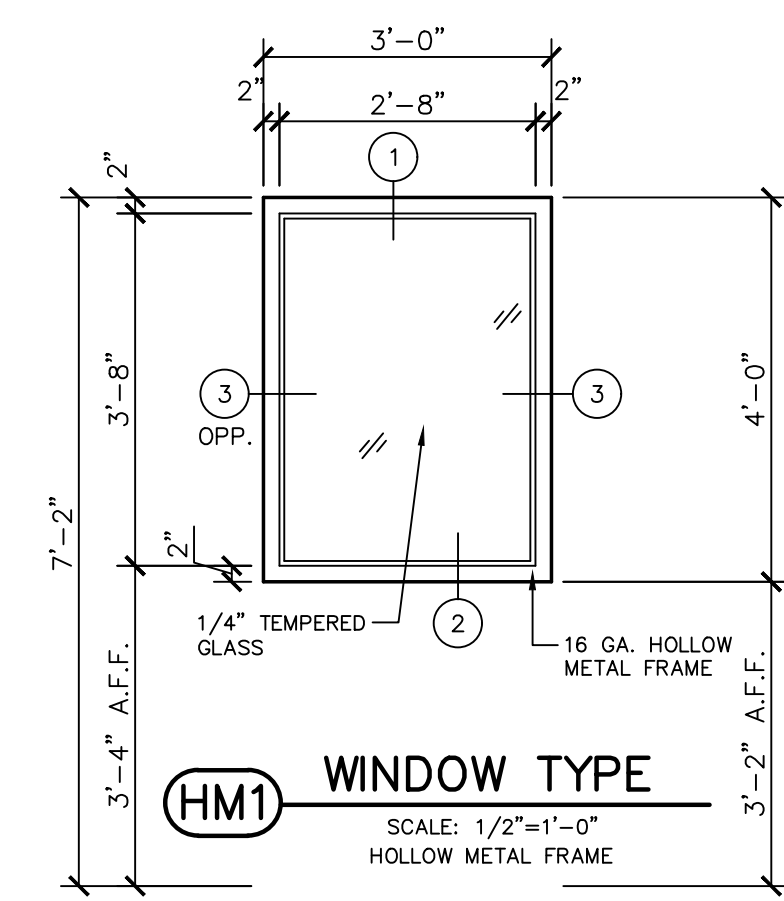
**REVISIONS**

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b.	e.
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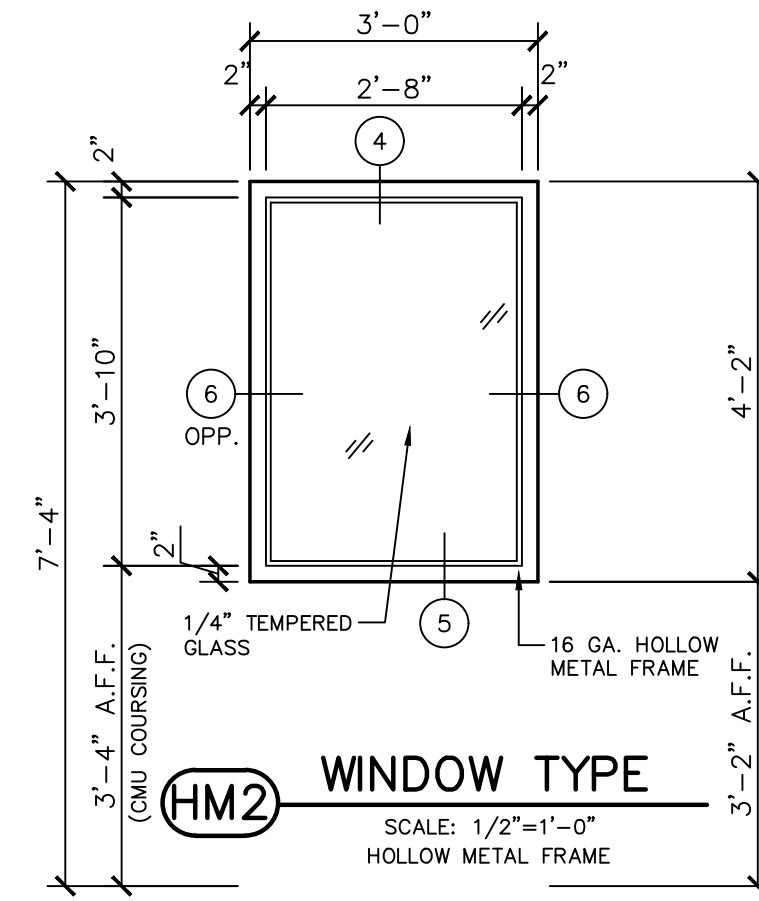
Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED

**INTERIOR WINDOW TYPES:**

SCALE: 1/2"=1'-0"

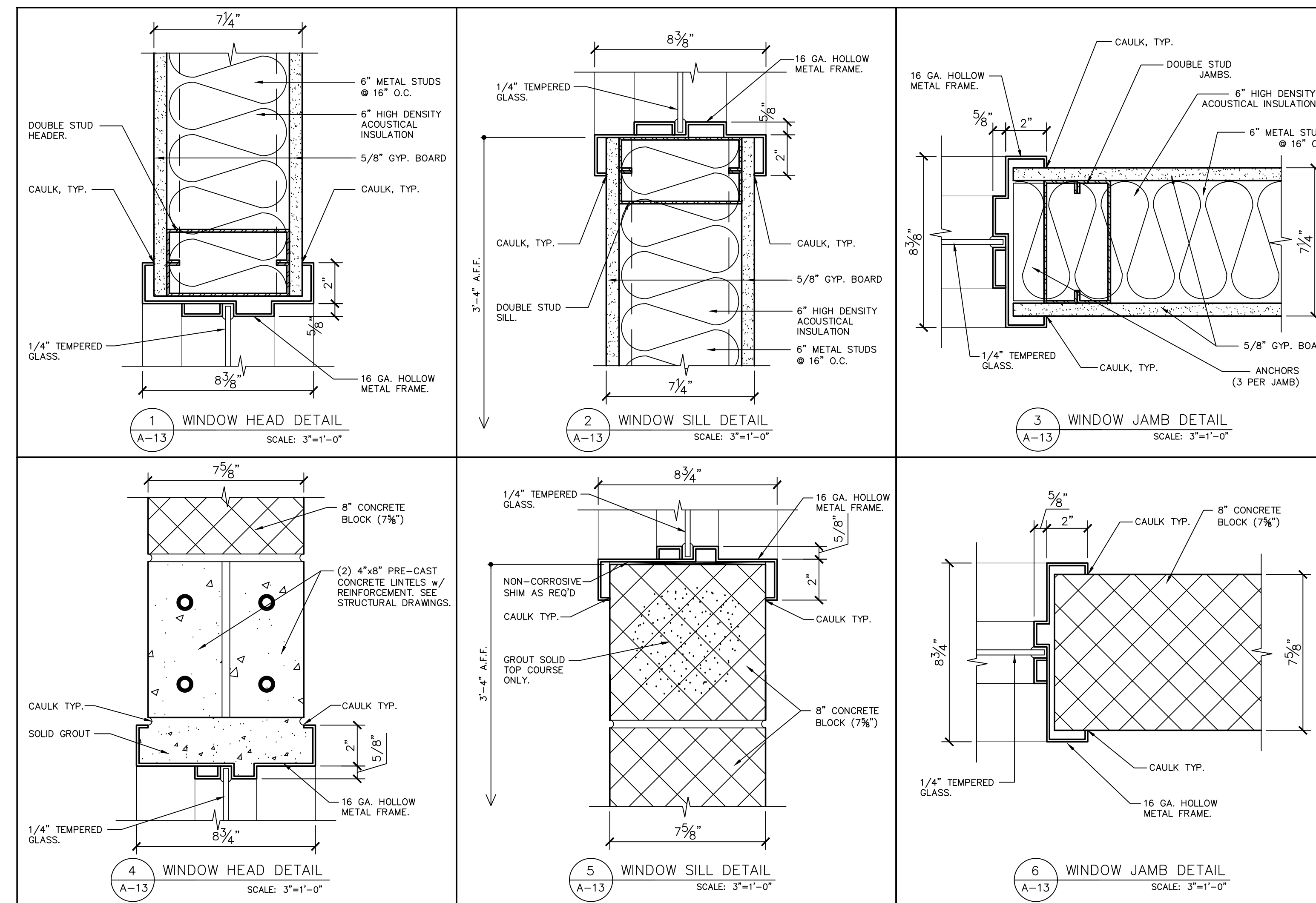


SEE SHEET A-13 FOR DETAILS



**INTERIOR WINDOW DETAILS:**

SCALE: 3"=1'-0"

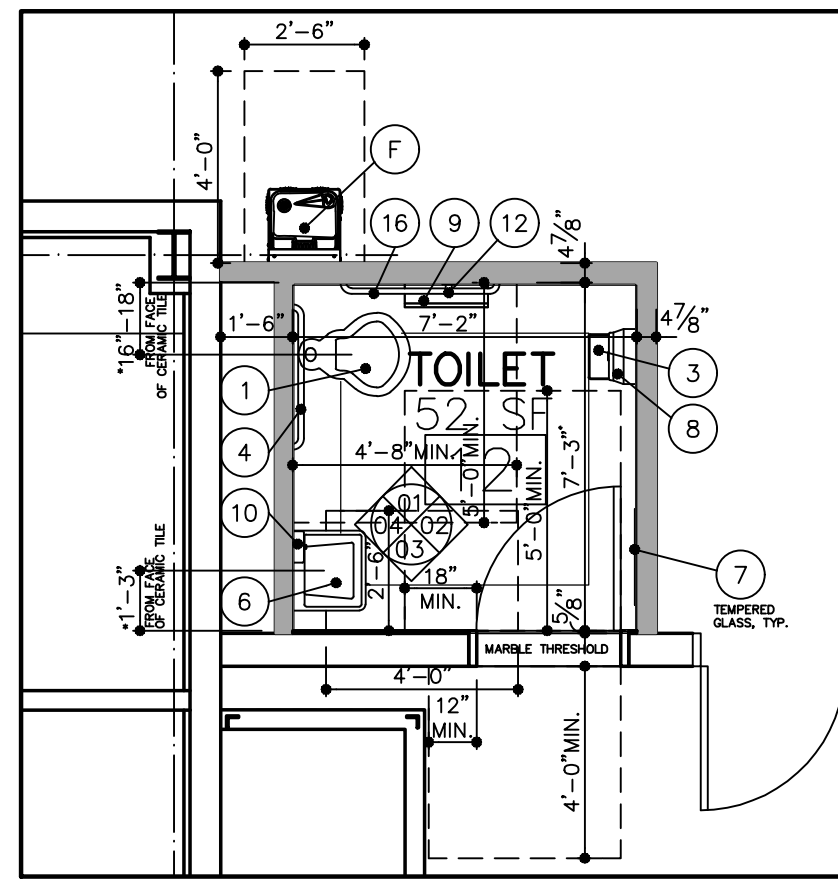


**REVISIONS**

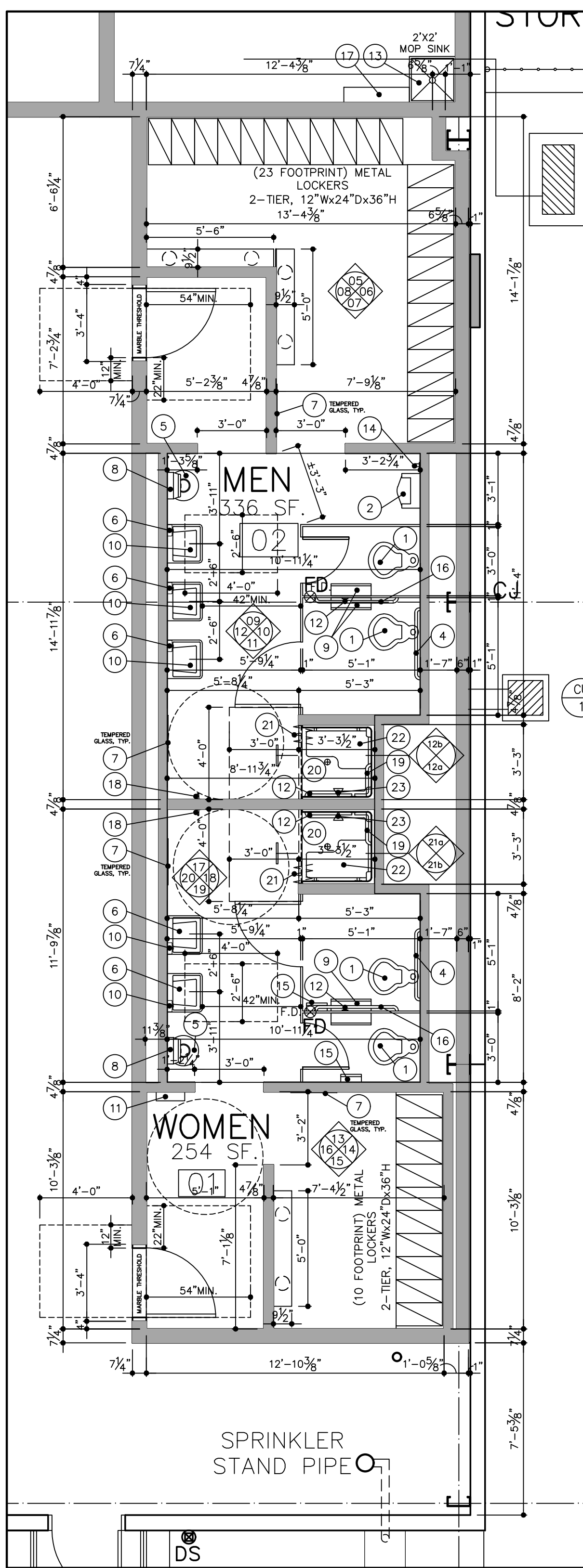
a.	d.
b.	e.
c.	f.

Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED

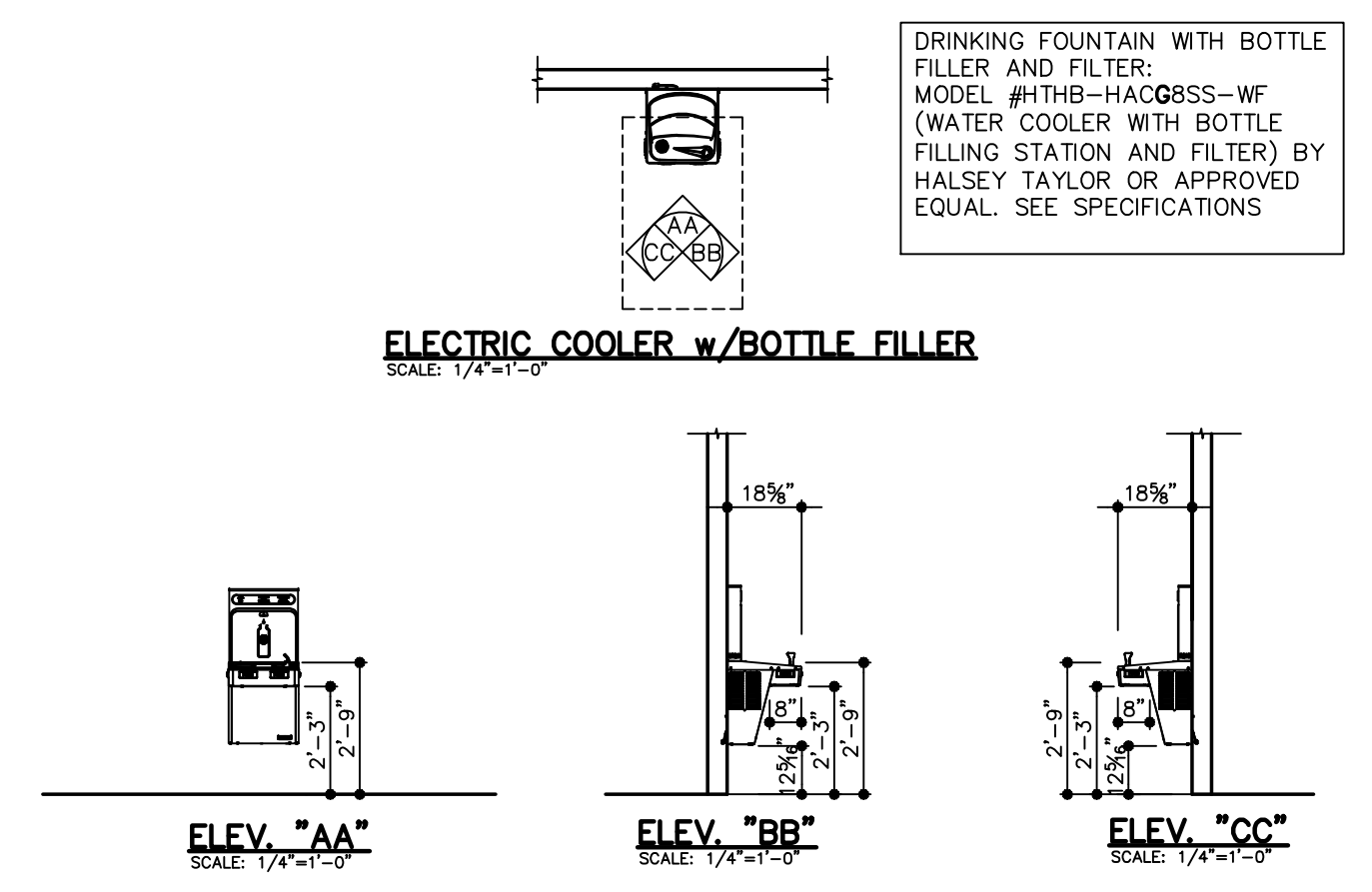
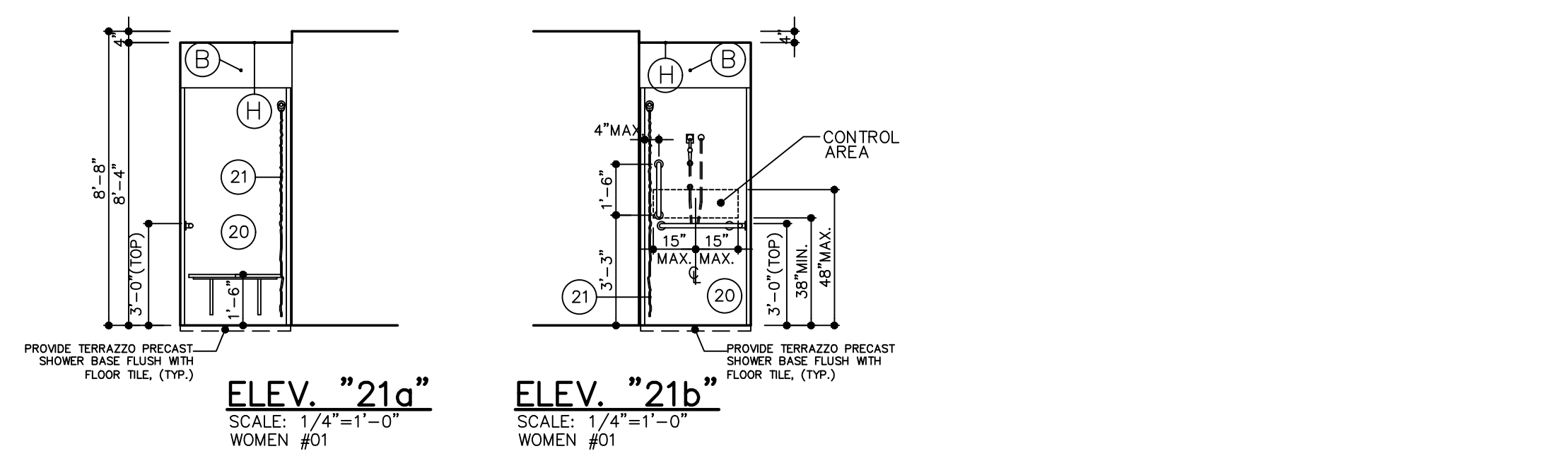
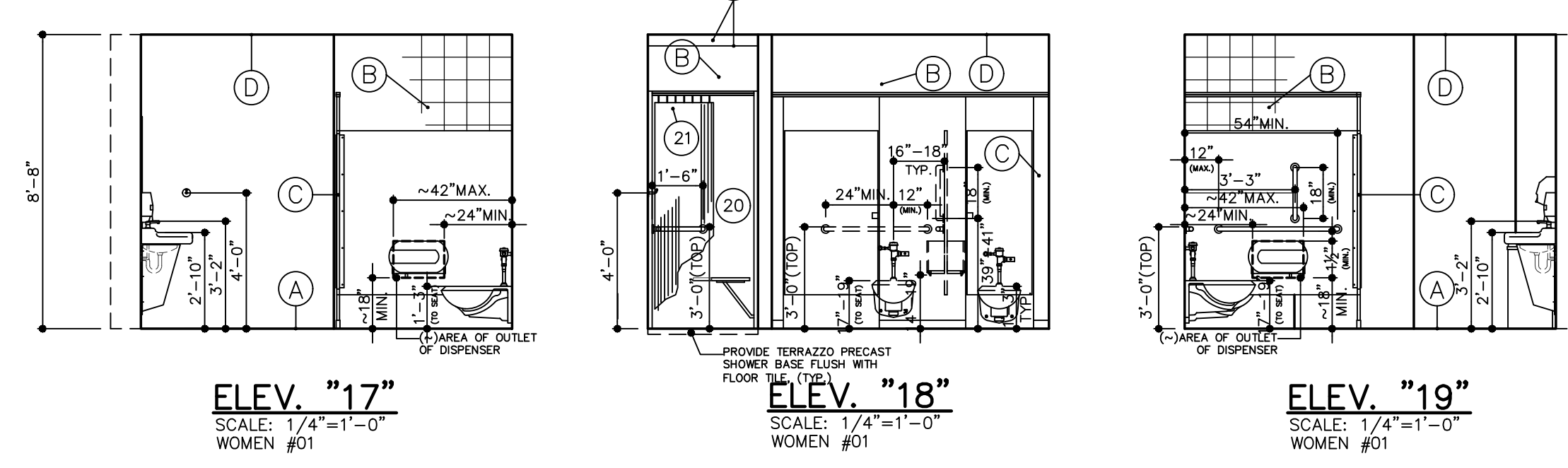
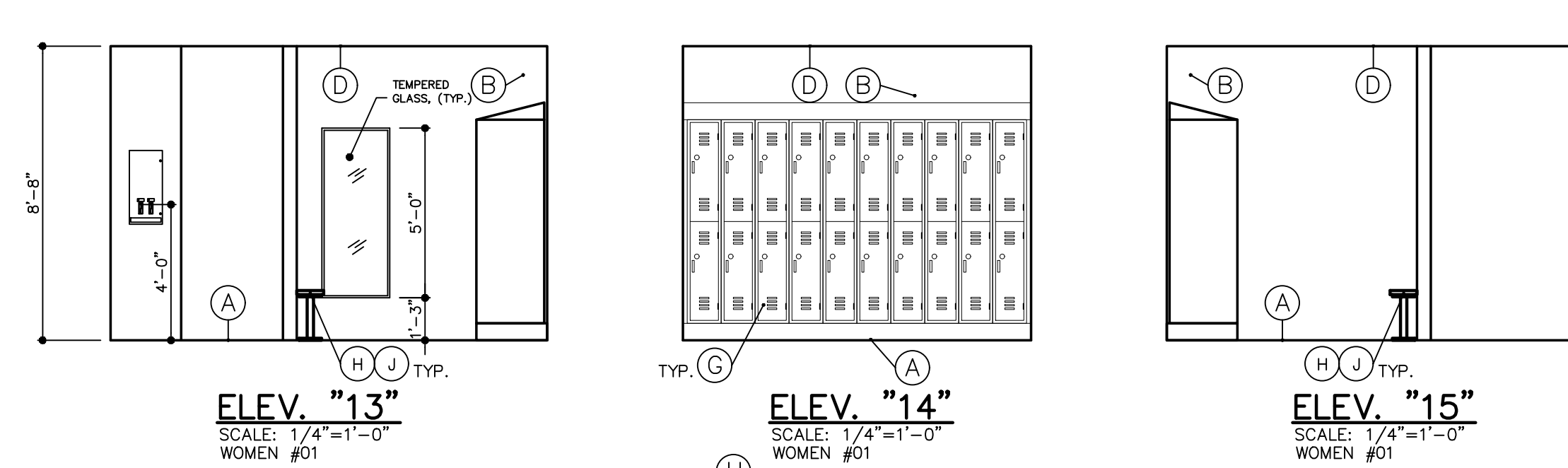
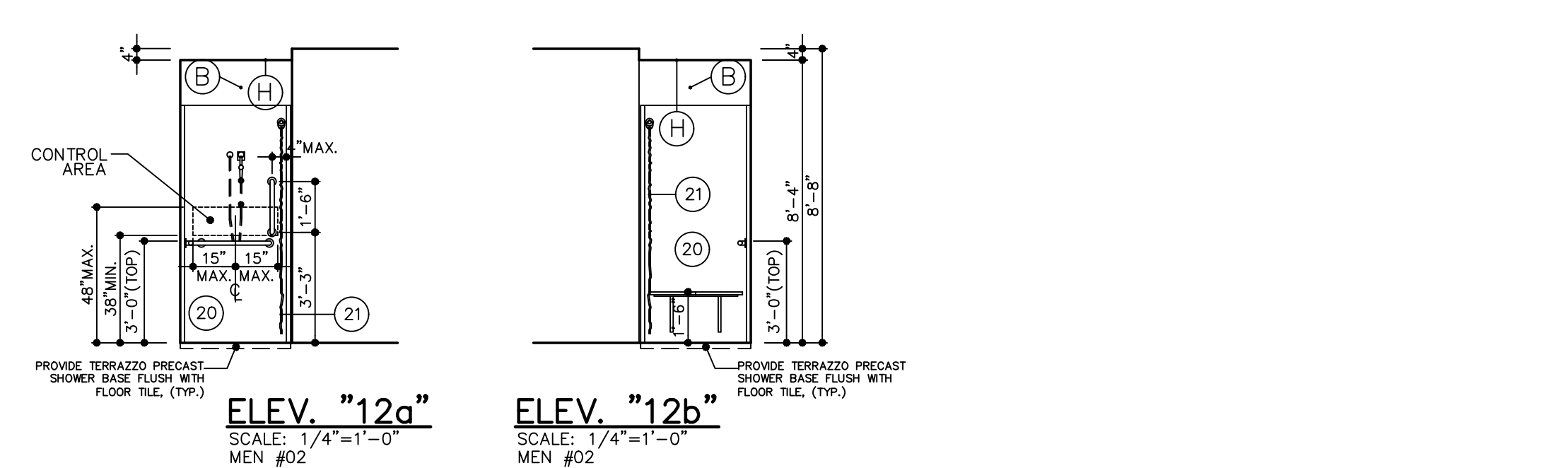
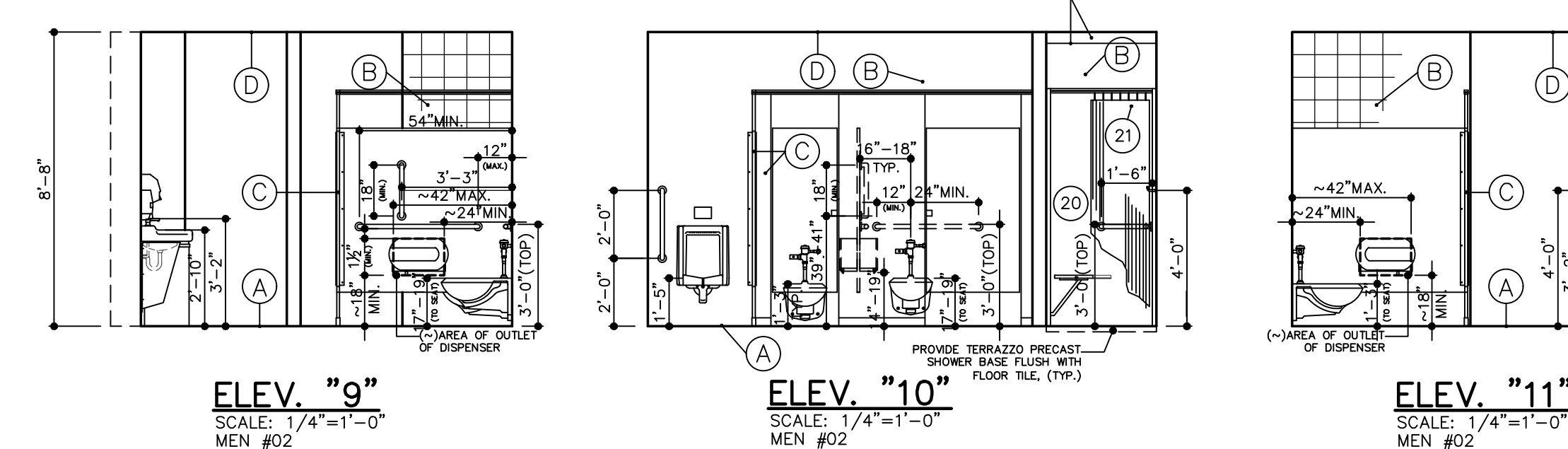
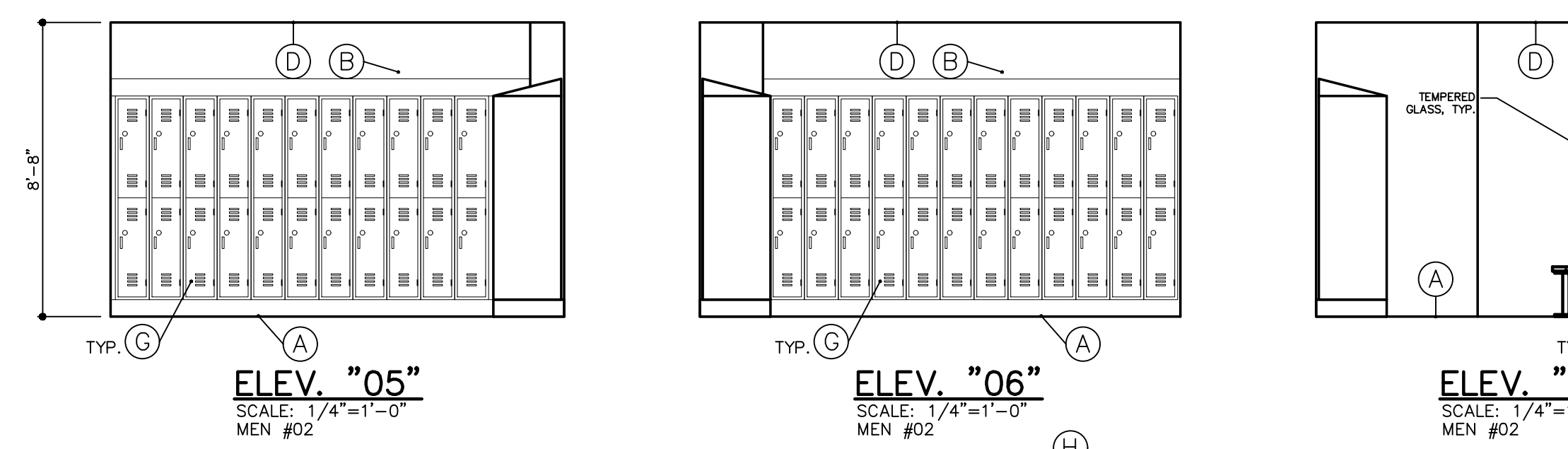
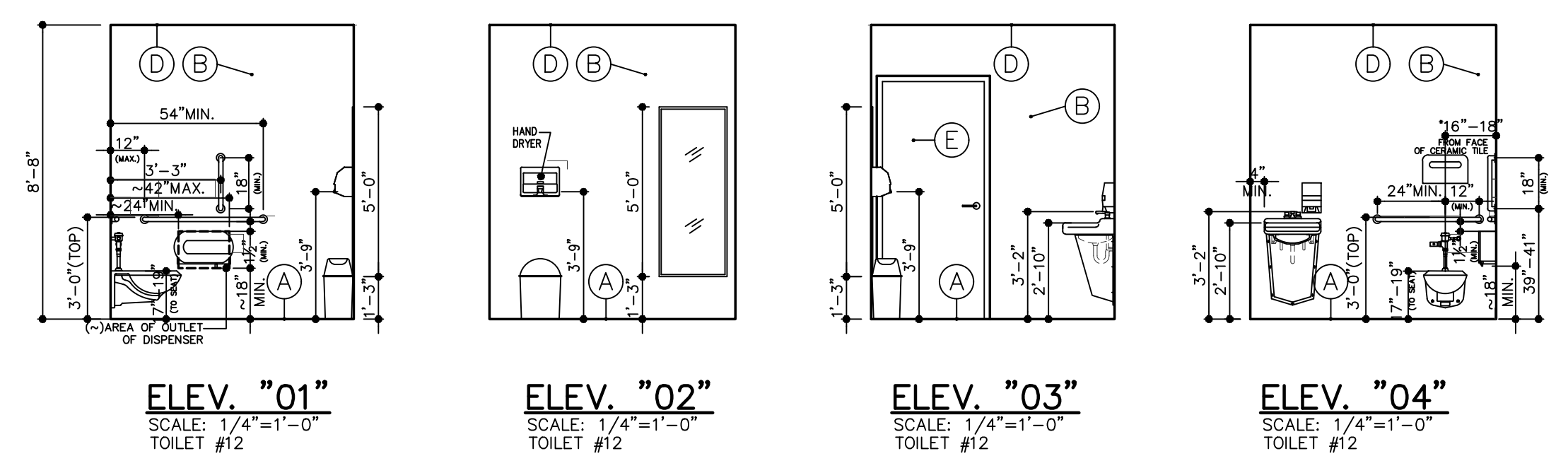
**INTERIOR WINDOW TYPES & DETAILS**  
**A-13**



1 ENLARGED TOILET FLOOR PLAN  
SCALE: 1/4"=1'-0"



2 ENLARGED MEN & WOMEN TOILET PLAN  
SCALE: 1/4"=1'-0"



NOTE: ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.

ALL PLUMBING FIXTURES & ACCESSORIES TO MEET CABO/ANSI BARRIER FREE CODE. ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR. REINFORCE TOILET PARTITION BETWEEN HANDICAP STALL & REGULAR STALL TOE CLEARANCE OF TOILET PARTITION TO BE 12" A.F.F. (TYP.) ALL TOILET ROOM & JANITORS CLOSET TO HAVE FLOOR DRAIN. ALL TOILET WALLS TO HAVE CERAMIC TILE w/ACCENT STRIP. (COLOR BY OWNER/ARCHITECT)

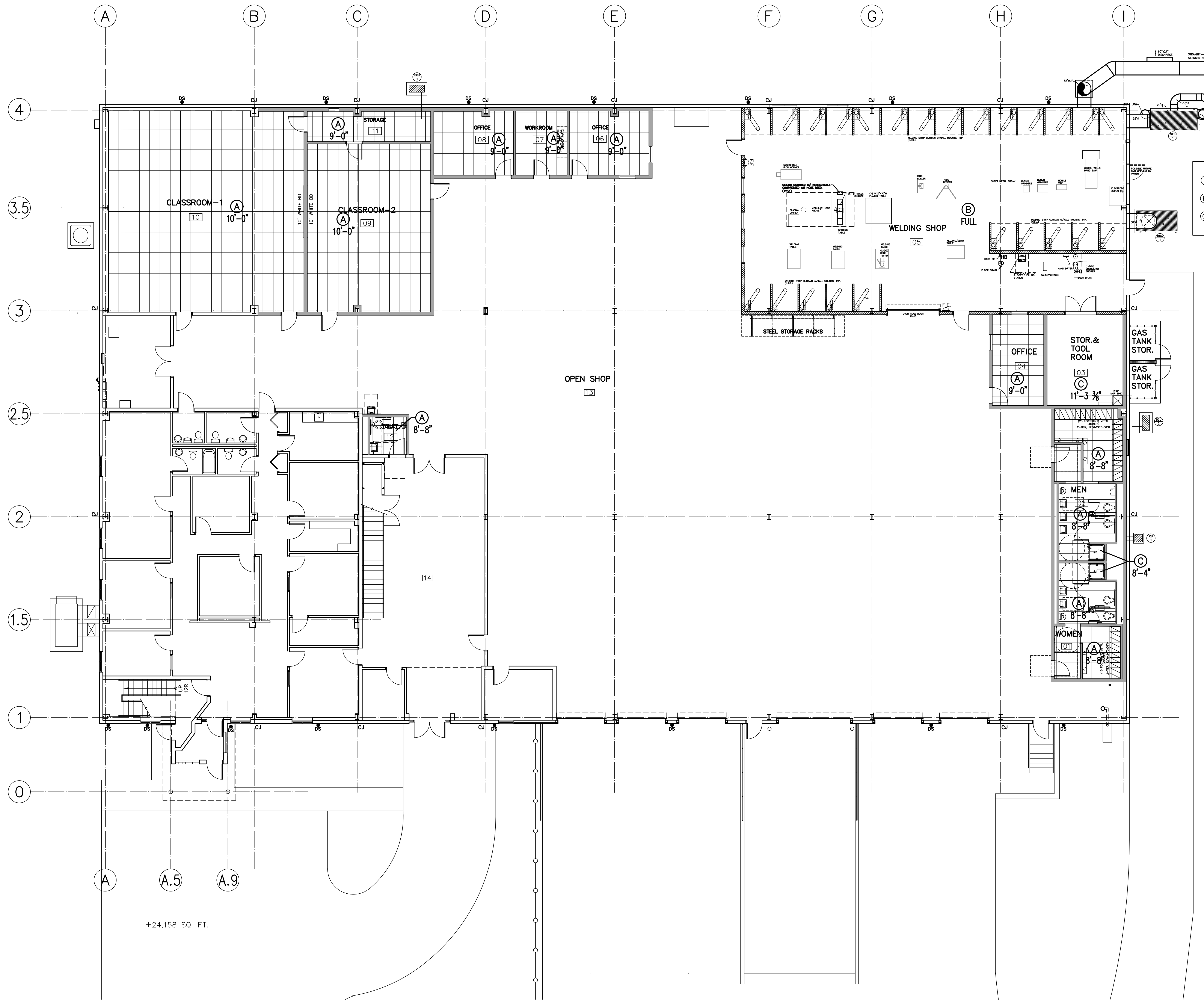
ALL PLANS, DETAILS, SECTIONS, SCHEDULES & ELEVATIONS SHOWN ON THIS DRAWING ARE TO BE COMPLETED BY THE GENERAL CONTRACTOR, UNLESS IT IS INDICATED BY OTHER TRADES, WHICH ARE TO BE COMPLETED BY THAT DESIGNATED TRADE.

**ACCESSORY LIST:** BY GENERAL CONTRACTOR

- ELONGATED FLUSH VALVE WALL HUNG TOILET. BY PLUMBING CONTRACTOR.
- FLUSH VALVE HANDICAPPED WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
- WASTEBASKET. LOCATED IN SINGLE TOILET ROOMS. SUPPLIED BY OWNER, INSTALLED BY G.C.
- STAINLESS STEEL HORIZONTAL GRAB BAR 36"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x36' OR EQUAL
- WASTE RECEPTACLE. SUPPLIED BY OWNER, INSTALLED BY G.C.
- WALL HUNG LAVATORY w/ACCESSIBLE LEVER HANDLE FAUCET & LAVATORY SHIELD. BY PLUMBING CONTRACTOR
- 24"x60" MIRROR w/STAINLESS STEEL FRAME. BOBRICK 'B-1658 2460' OR EQUAL
- WALL MOUNTED ELECTRIC HAND DRYER. EXCEL DRYER XL-BW XLERATOR HAND DRYER WITH NOISE REDUCTION NOZZLE
- TOILET TISSUE DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
- SOAP DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
- SURFACE MOUNTED NAPKIN/TAMPON VENDOR. SUPPLIED BY OWNER, INSTALLED BY G.C.
- STAINLESS STEEL VERTICAL GRAB BAR 18"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x18' OR EQUAL
- WASTE RECEPTACLE. SUPPLIED BY OWNER, INSTALLED BY G.C.
- STAINLESS STEEL HORIZONTAL GRAB BAR 42"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x42' OR EQUAL
- UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS. BOBRICK 'B-239' OR EQUAL
- HEAVY DUTY ROBE HOOK w/CONCEALED MOUNTING. BOBRICK 'B-2116' OR EQUAL
- STAINLESS STEEL HORIZONTAL TWO WALL GRAB BAR, 1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6861' OR EQUAL
- HANDICAP PRE-FABRICATED SHOWER ENCLOSURE w/RECESSED TERRAZZO BASE BY PLUMBING CONTRACTOR.
- SHOWER CURTAIN, ROD & HOOKS (3' WIDE) BOBRICK '204-2' CURTAIN, '204.1' HOOKS (7), '6107-36' ROD OR EQUAL
- REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT - BOBRICK 'B-5181' OR EQUAL (SEE PLAN FOR SEAT CONFIGURATION) BY GENERAL CONTRACTOR
- SHOWER HEAD & CONTROLS. STANDARD & HANDICAP ADJUSTABLE HT. HAND HELD SHOWER HEAD. BY PLUMBING CONTRACTOR.

- MATERIALS LIST:**
- (A) CERAMIC TILE FLOOR w/COVE BASE (SEE SPECS.)
  - (B) CERAMIC TILE w/ACCENT STRIPS (SEE SPECS.)
  - (C) FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET PARTITION
  - (D) LAY-IN CEILING TILE
  - (E) NEW DOOR (SEE DOOR SCHEDULE)
  - (F) ELECTRIC COOLER W/BOTTLE FILLER (SEE SPECS.)
  - (G) 12"Wx24"Dx36"H, 2 TIER LOCKERS w/CONTINUOUS SLOPED HOOD ON 6" H. METAL BASE. LOCKS BY OWNER. (SEE SPECS.)
  - (H) LOCKER ROOM BENCH, MAPLE TOP 9 1/2" DEEP x 1 1/2" THICK
  - (J) STEEL BENCH PEDESTAL 8" dia.x16 1/8" h. (COLOR BY OWNER/ARCHITECT)

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**IRON WORKERS LOCAL 399**  
**New Welding Training Facility**  
 26 EAST FLEMING PIKE  
 HAMMONTON, NEW JERSEY 08037  
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 a. d.  
 b. e.  
 c. f.  
 Project No. 19-13  
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 Scale: 1/4"=1'-0"  
**ENLARGED TOILETS**  
**A-14**



**CEILING FINISH TYPES**

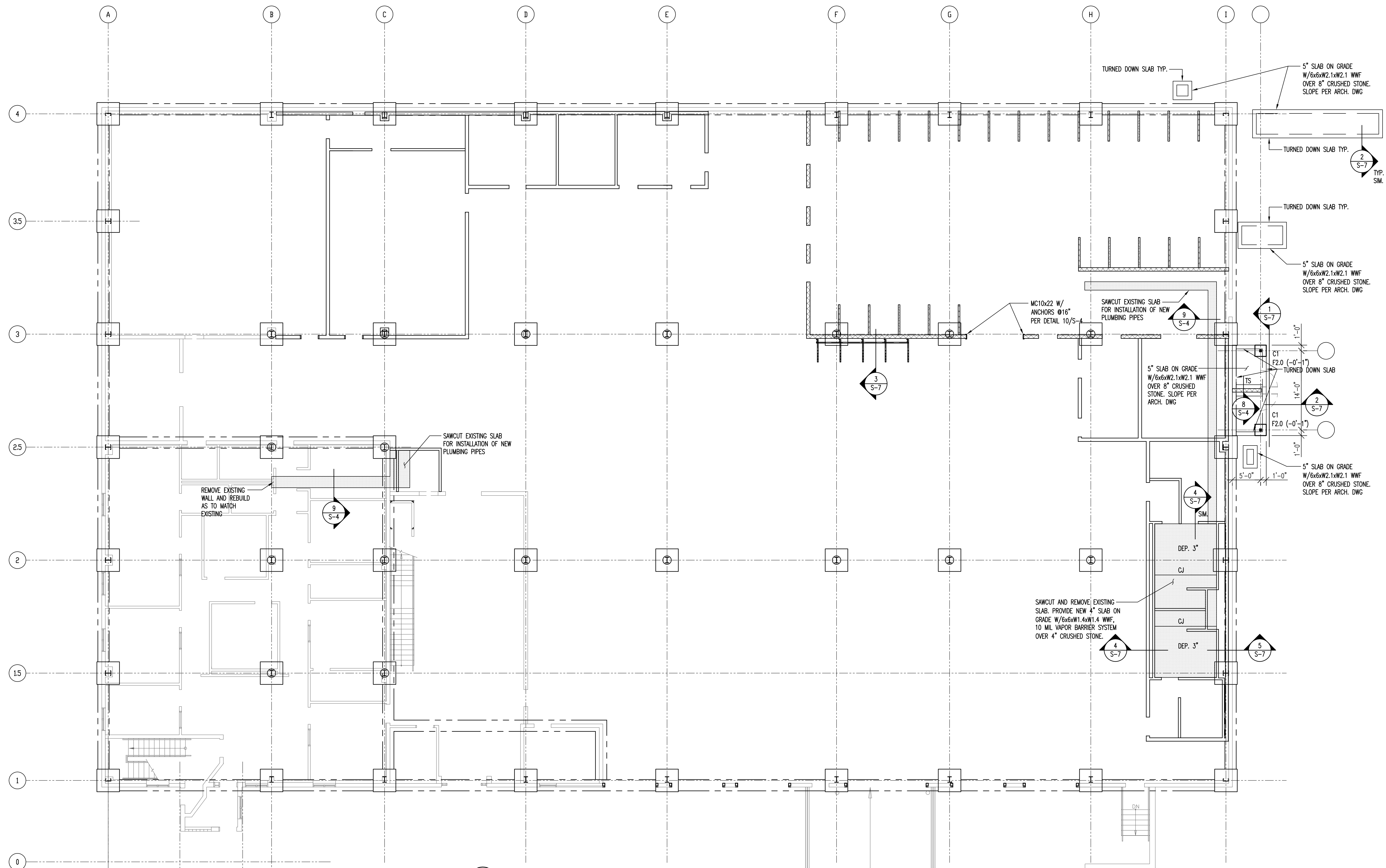
(A) 2'x4' LAY-IN TILE: ARMSTRONG #1714 "SCHOOL ZONE" w/ 5/16" ALUMINUM GRID OR APPROVED EQUAL

(B) EXPOSED CEILING STRUCTURE, STEEL JOIST, DECK, DUCT, PIPE CONDUIT...ETC...PAINTED

(C) 5/8" PAINTED GYPSUM BD. CEILING, GREENBOARD OR SOFFIT

1 PROPOSED REFLECTED CEILING PLAN  
SCALE: 1/8"=1'-0"





**1**  
S-1 FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

- FOUNDATION NOTES**
- FIRST FLOOR REFERENCE DATUM IS ELEVATION 0'-0".
  - DATUM ELEVATION 0'-0" IS EQUIVALENT TO SITE ELEVATION (SEE SITE PLAN).  
 (-#-#) INDICATES TOP OF FOOTING  
 (-#-#) INDICATES TOP OF PIER
  - FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:  
 F#-# FOOTING MARK (SEE SCHEDULE)
  - COORDINATE WITH ARCH, MECH, ELEC, AND PLUMBING DRAWINGS FOR FLOOR SLOPES, DRAINS, OPENINGS, DEPRESSIONS, ETC., NOT SHOWN ON THIS PLAN.
  - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
  - EXISTING CONSTRUCTION SHOWN THUS TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
  - REFER TO TYPICAL DETAILS ON DRAWING S-4.

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w: www.orndorf.com

N.J.P.E. # GE36372  
N.J.CERT. OF AUTH. #24GA27960500  
KEVIN R. ORNDORF

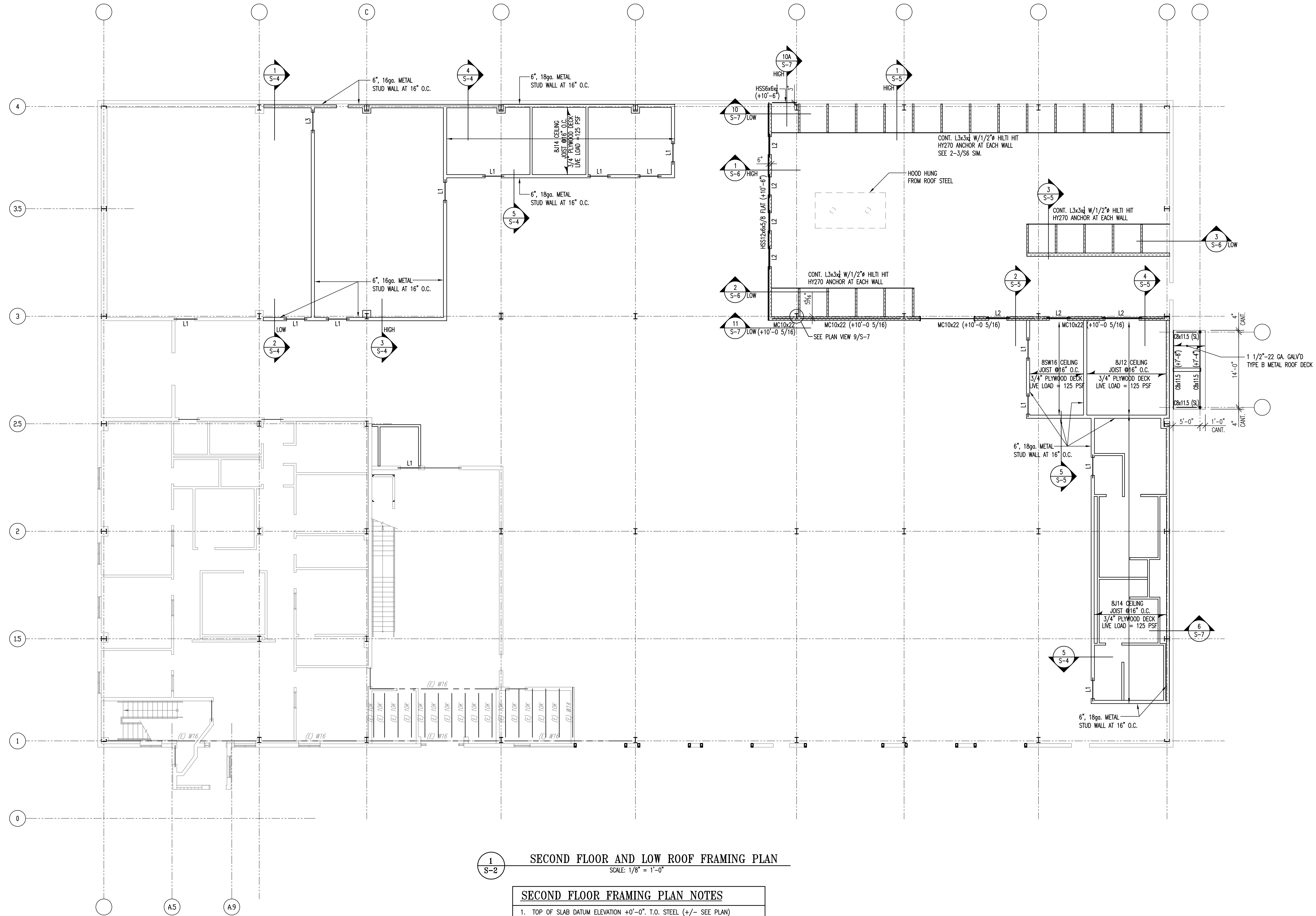
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b.	f.
c.	g.

Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED

**FOUNDATION PLAN**  
**S-1**

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**1**  
S-2  
**SECOND FLOOR AND LOW ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

- SECOND FLOOR FRAMING PLAN NOTES**
1. TOP OF SLAB DATUM ELEVATION +0'-0". T.O. STEEL (+/- SEE PLAN)
  2. FOR GENERAL NOTES REFER TO DRAWING S-0.
  3. REFER TO TYPICAL DETAILS ON DRAWING S-4 TO S-7.
  4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
  5. EXISTING CONSTRUCTION SHOWN THIS \_\_\_\_\_, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.

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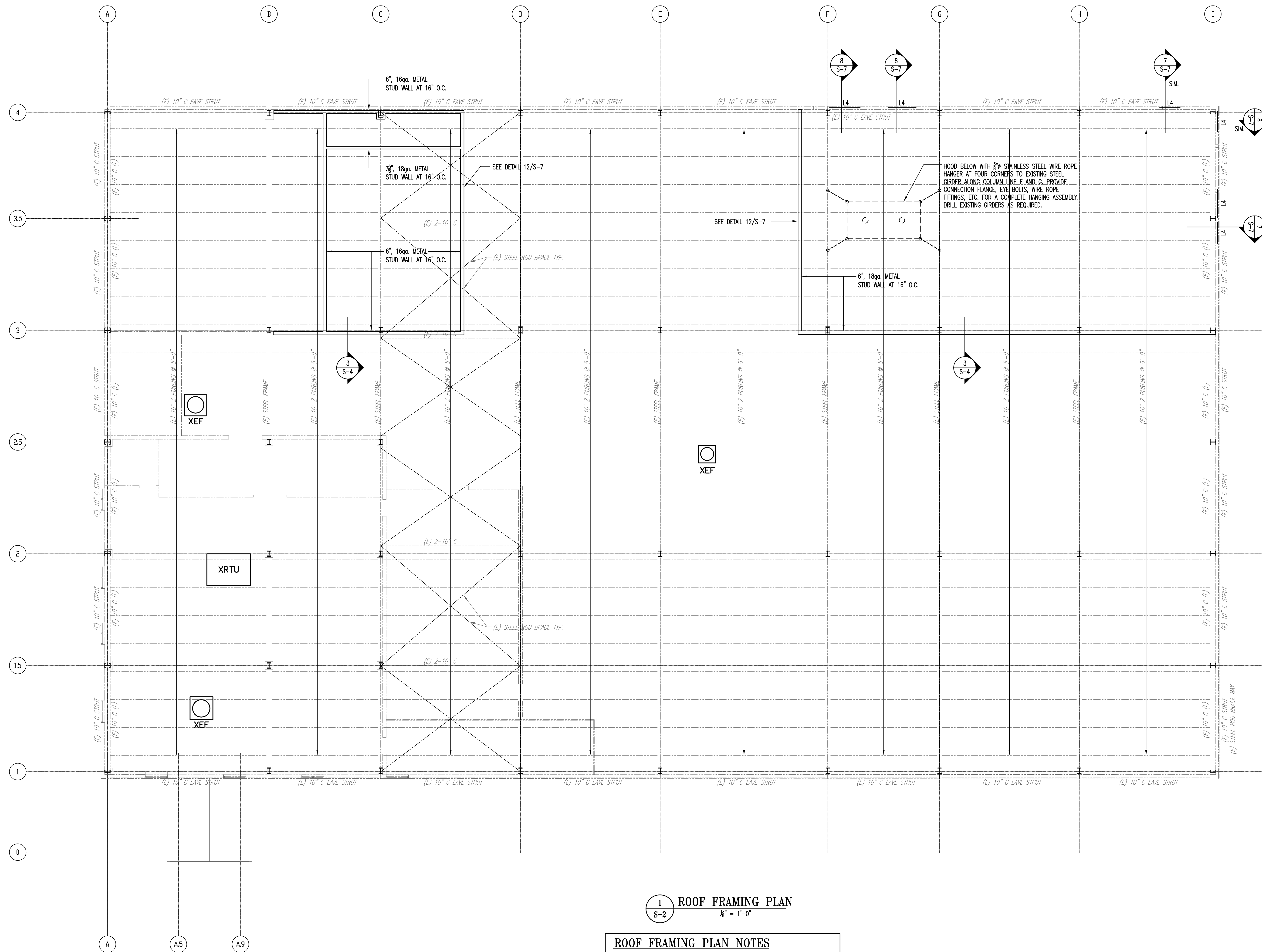
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	<p>KEVIN R. ORNDORF</p>	

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c.	g.

Project No. 19-13  
Date: 6-25-19  
Scale: AS NOTED  
**2nd FL & LOW ROOF FRAMING PLAN**  
**S-2**

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1 ROOF FRAMING PLAN  
 S-2 1/8" = 1'-0"

- ROOF FRAMING PLAN NOTES**
1. REFER TO TYPICAL DETAILS ON DRAWING S-4 TO S-7.
  2. FOR GENERAL NOTES REFER TO S-0.
  3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
  4. PROVIDE LINTELS ACCORDING TO GENERAL NOTES AND LINTEL SCHEDULE.

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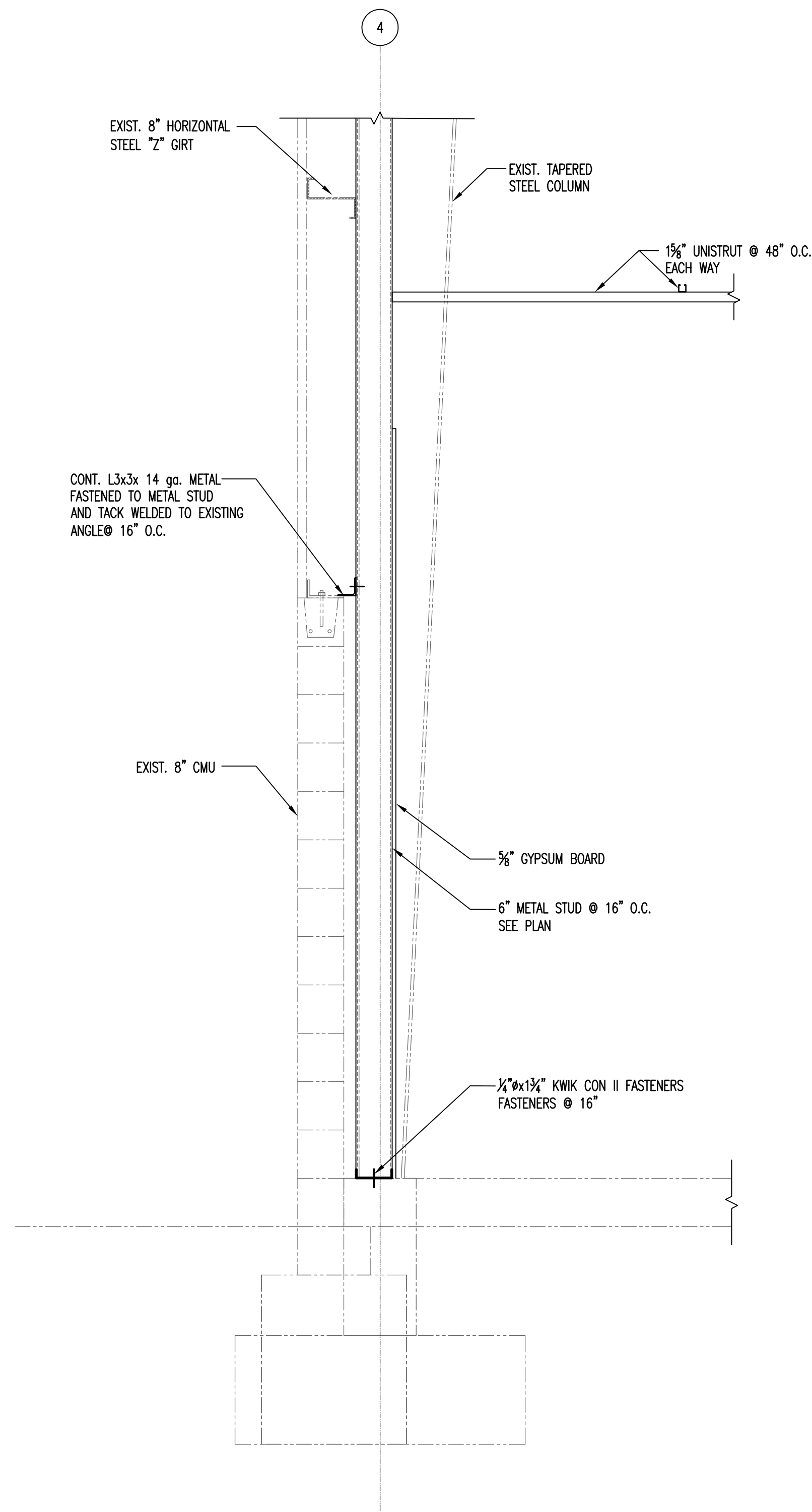
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	Project No. 19-13 Date: 6-25-19 Scale: AS NOTED <b>ROOF FRAMING PLAN</b> <b>S-3</b>	

ISSUED FOR SELECT GENERAL CONTRACTOR BID: 06-25-2019

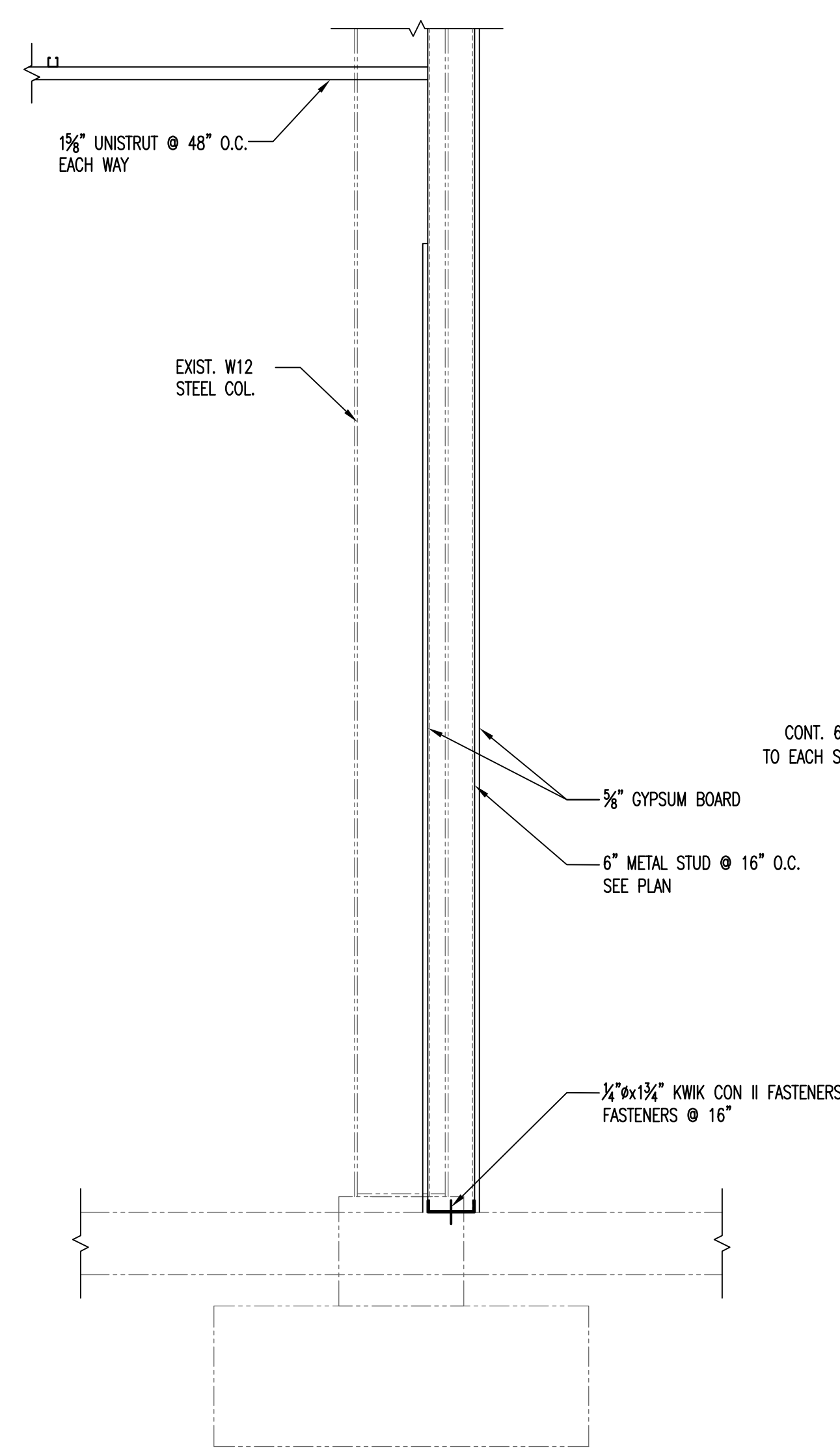
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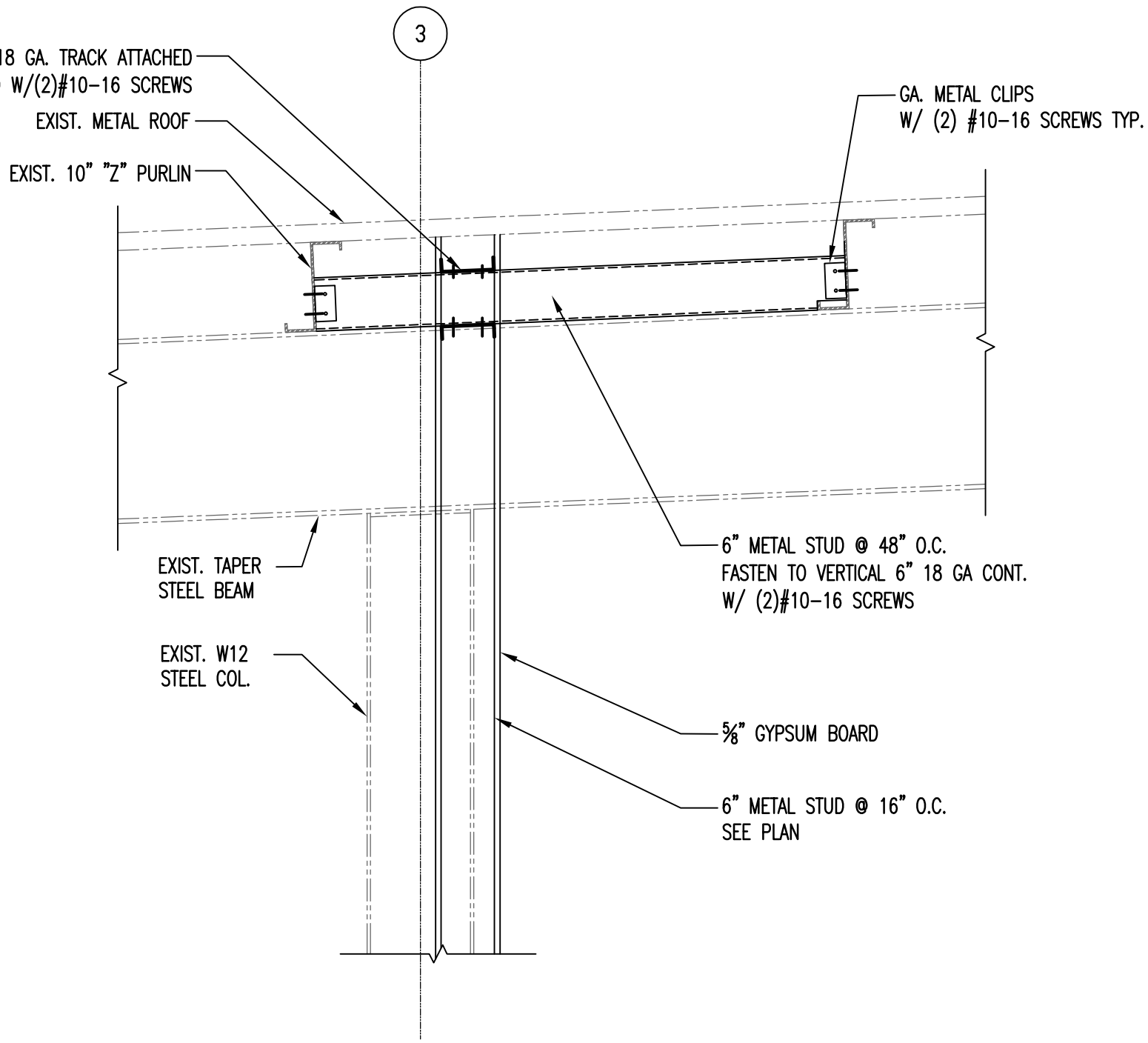




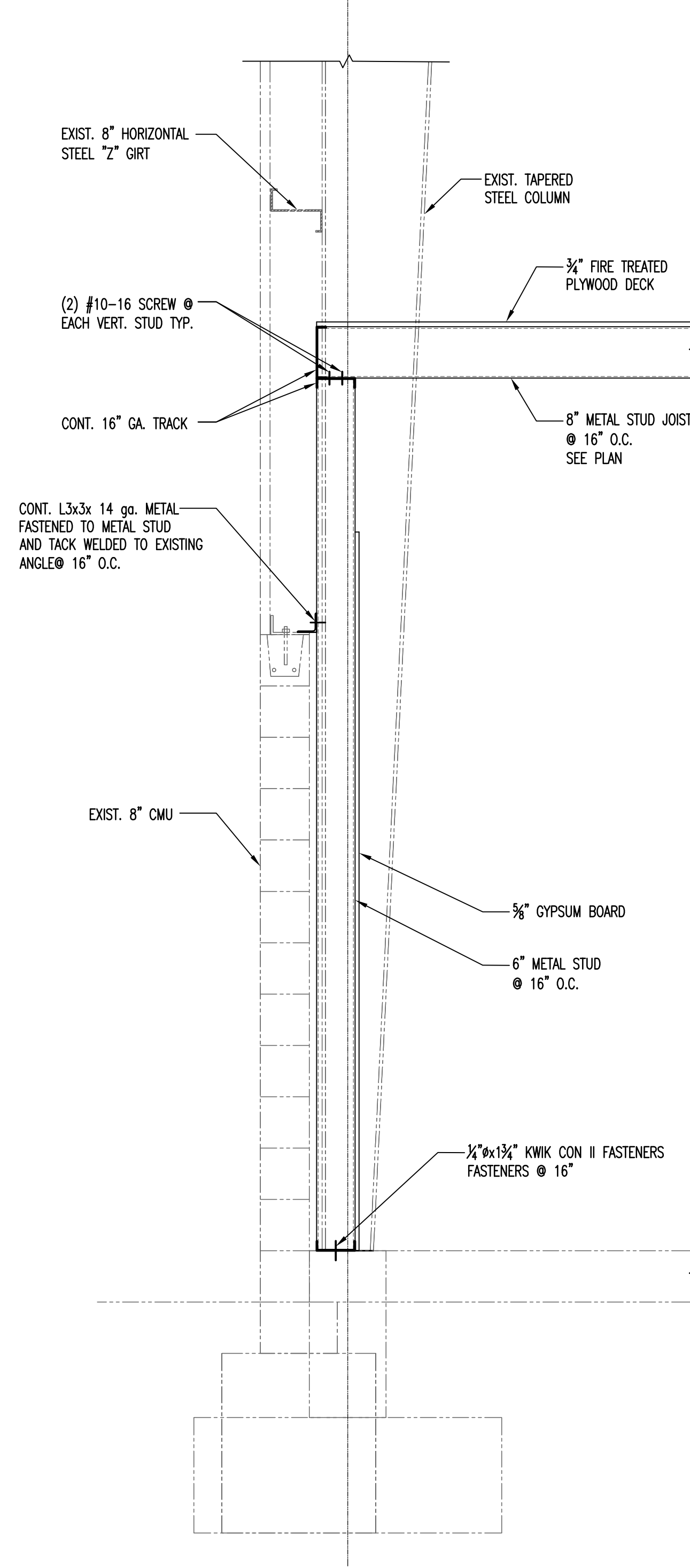
1 SECTION  
S-4 3/4" = 1'-0"



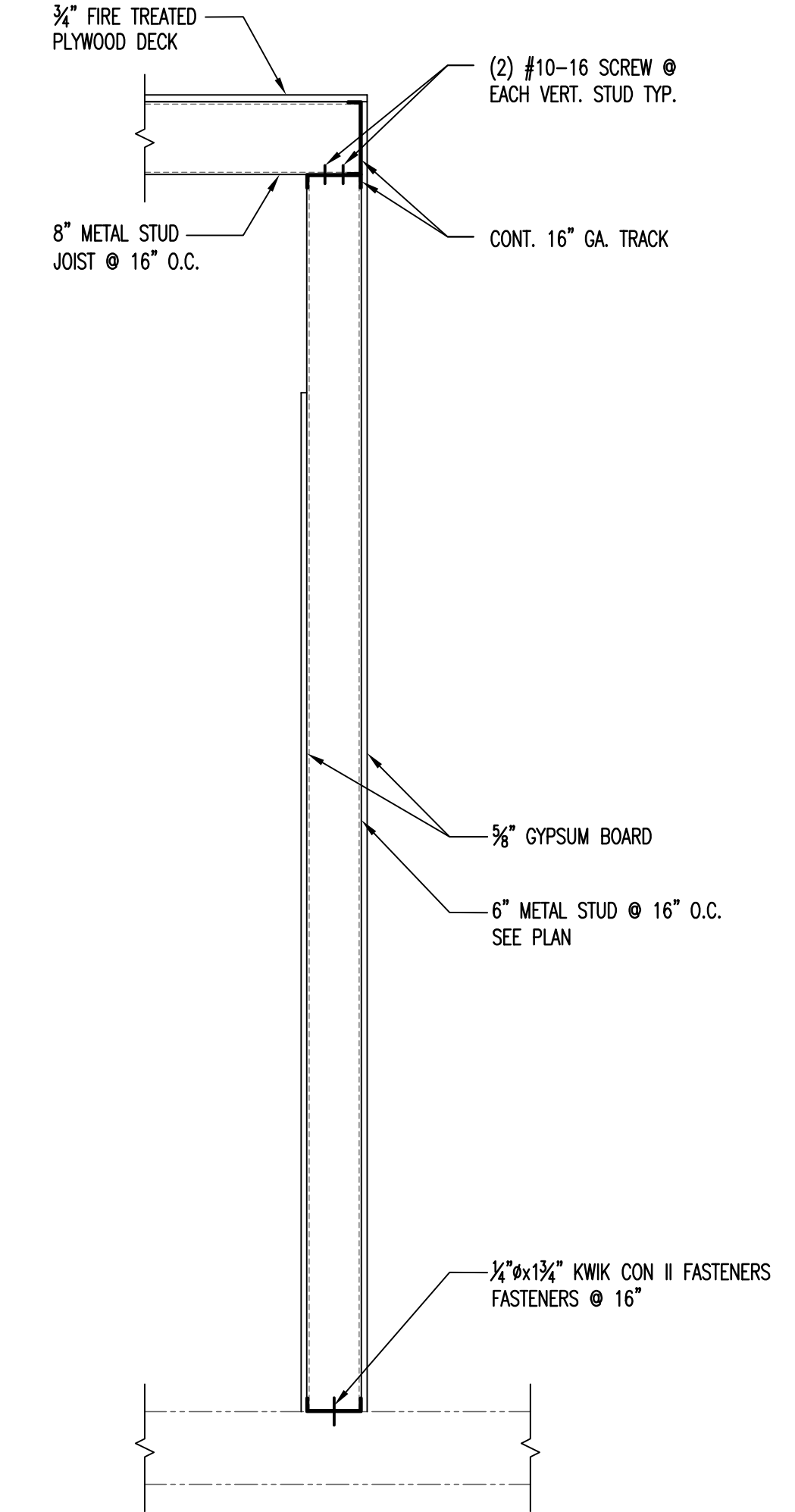
2 SECTION  
S-4 3/4" = 1'-0"



3 SECTION  
S-4 3/4" = 1'-0"

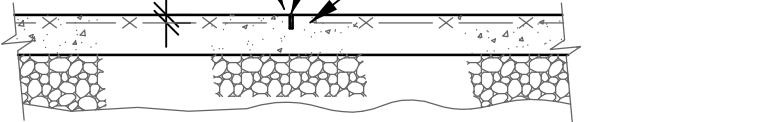


4 SECTION  
S-4 3/4" = 1'-0"

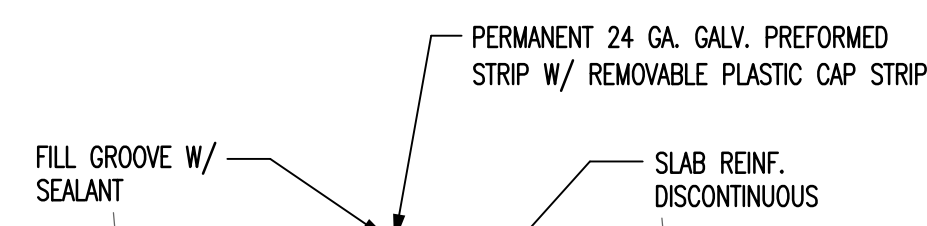


5 SECTION  
S-4 3/4" = 1'-0"

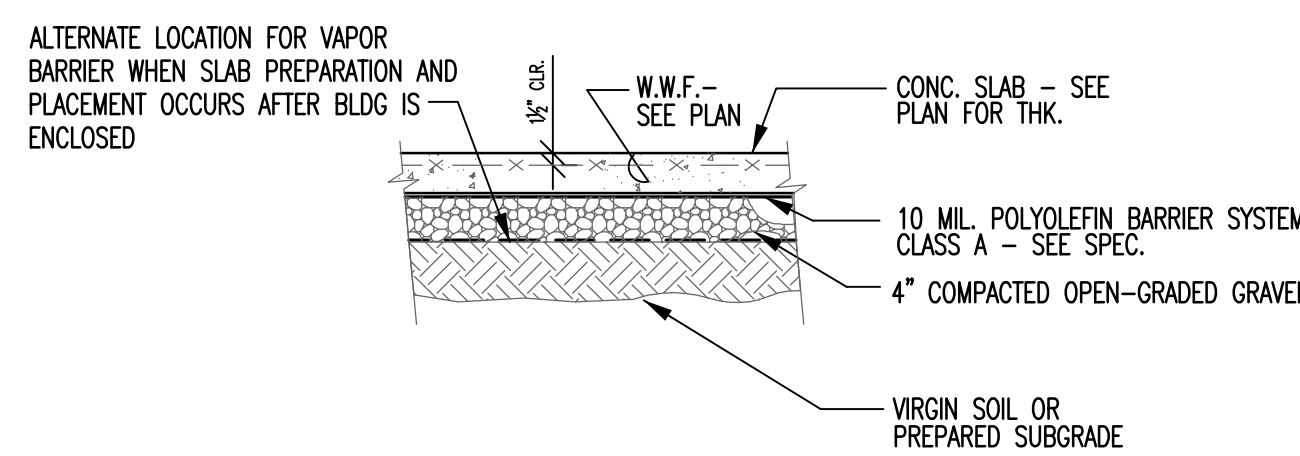
NOTE: G.C. TO PROVIDE CONTROL JOINT LOCATION SHOP DRAWING IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND ACI CRITERIA.



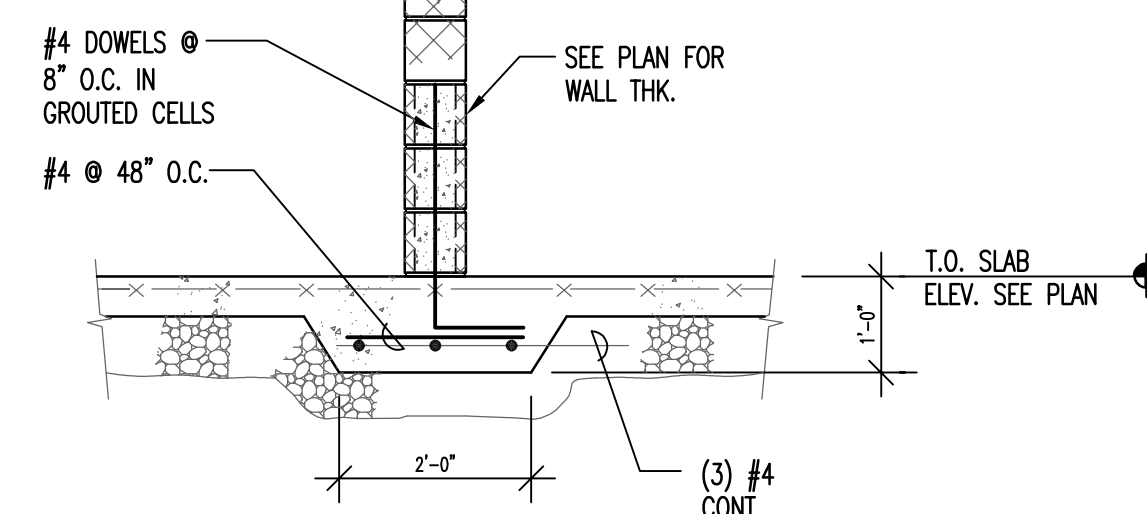
CONTROL (CONTRACTION) JOINT



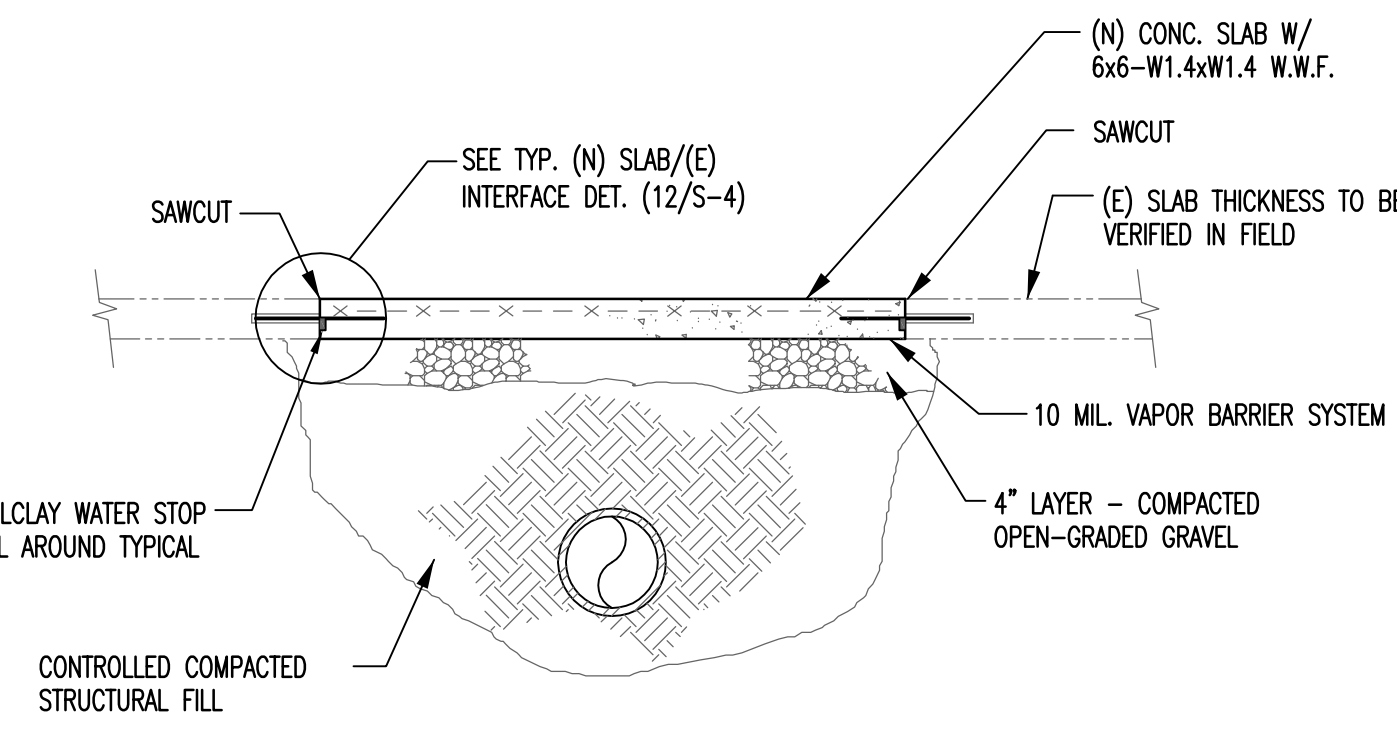
CONSTRUCTION JOINT



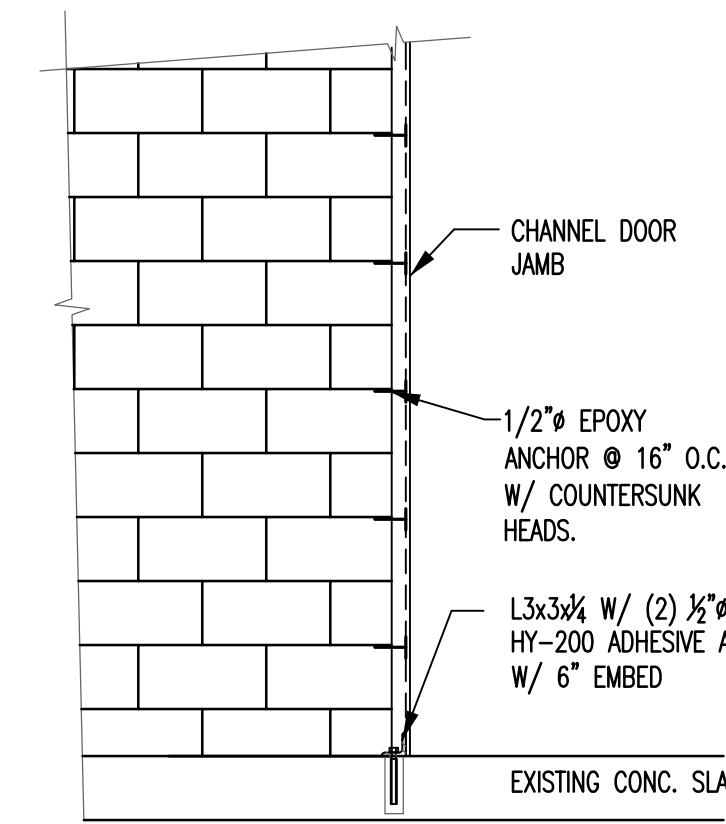
7 TYP. SLAB-ON-GRADE SUBSURFACE PREPARATION  
S-4 1/2" = 1'-0"



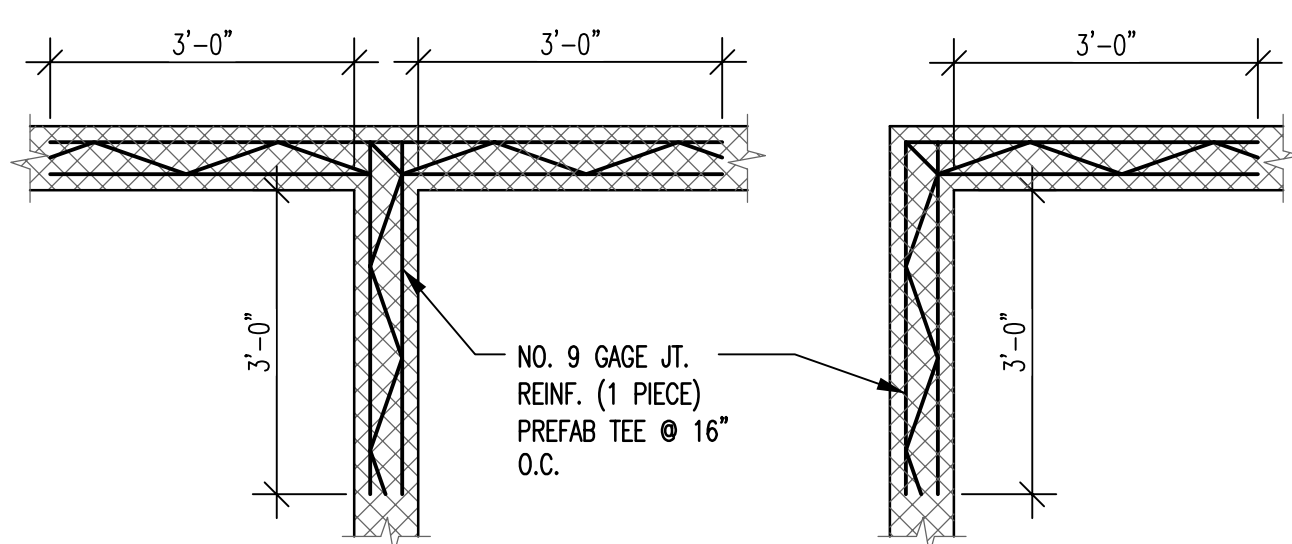
8 TYPICAL THICKENED SLAB DETAIL  
S-4 1/2" = 1'-0"



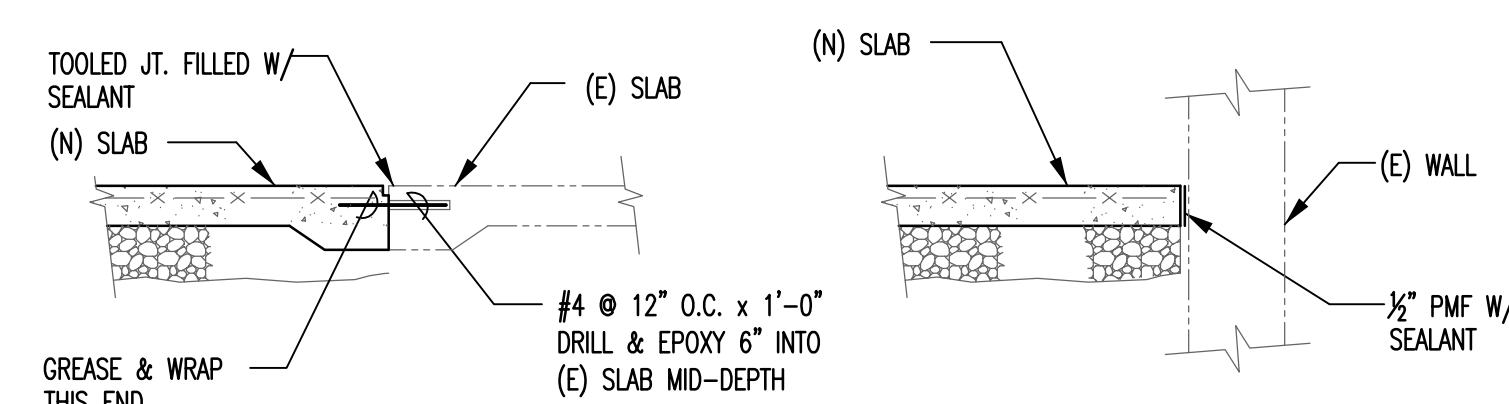
9 TYPICAL SLAB REPLACEMENT DETAIL AT UTILITY TRENCH  
S-4 1/2" = 1'-0"



10 JAMB ANCHORAGE DETAIL  
S-4 1/2" = 1'-0"



11 DETAIL AT MASONRY CORNERS  
S-4 SCALE: 3/4" = 1'-0"



12 TYPICAL NEW SLAB/EXISTING INTERFACE  
S-4 1/2" = 1'-0"

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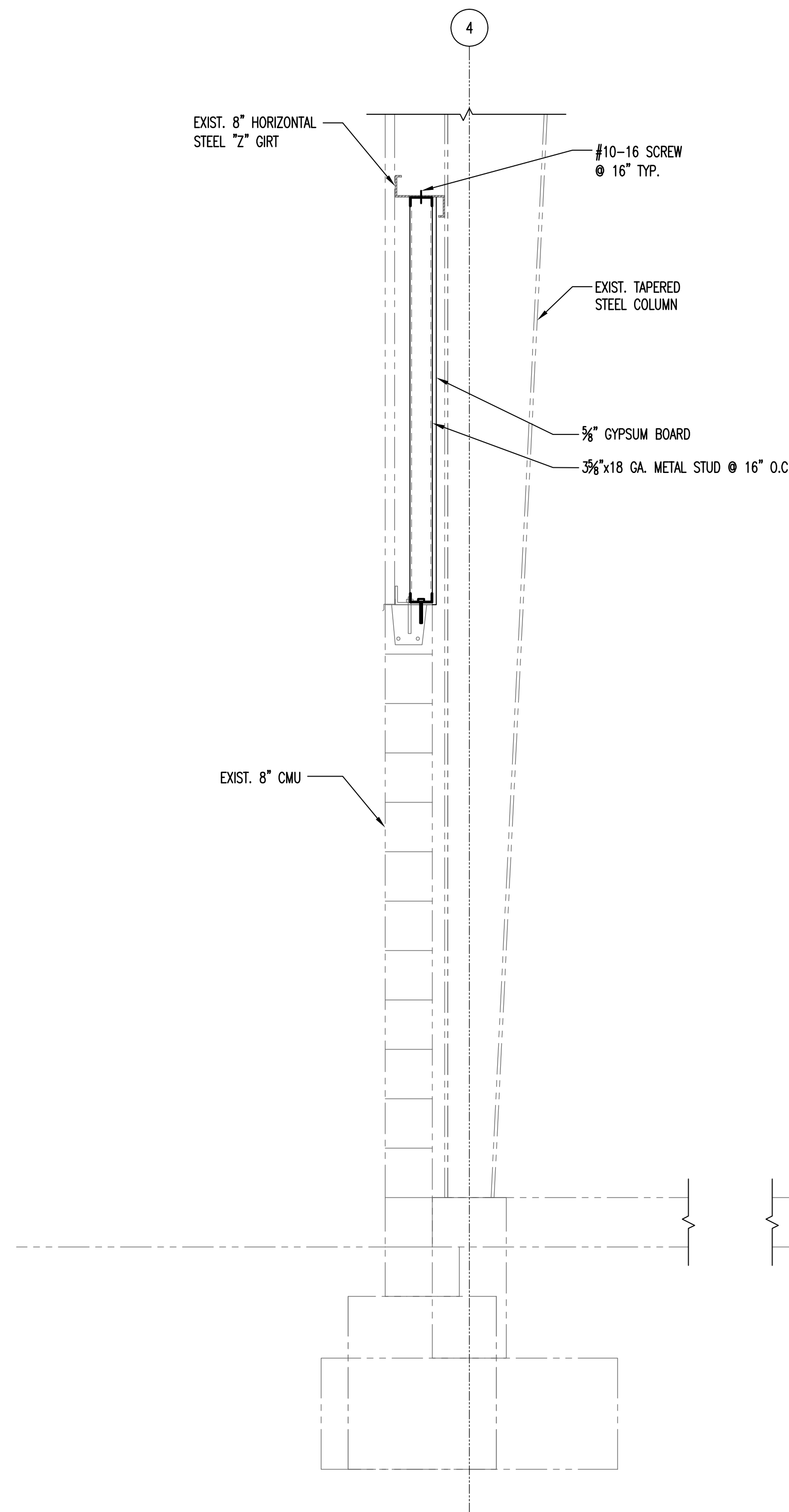
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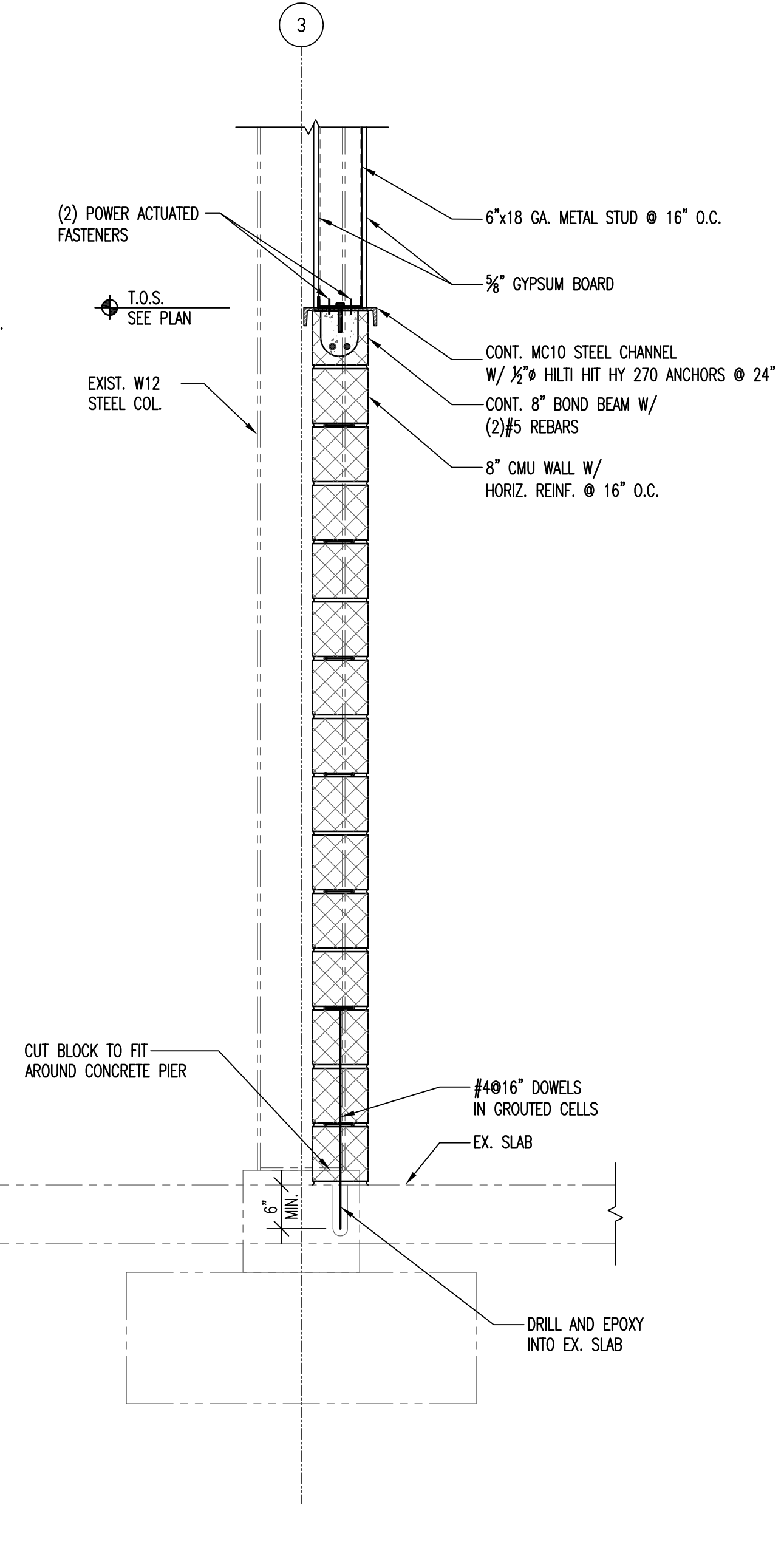
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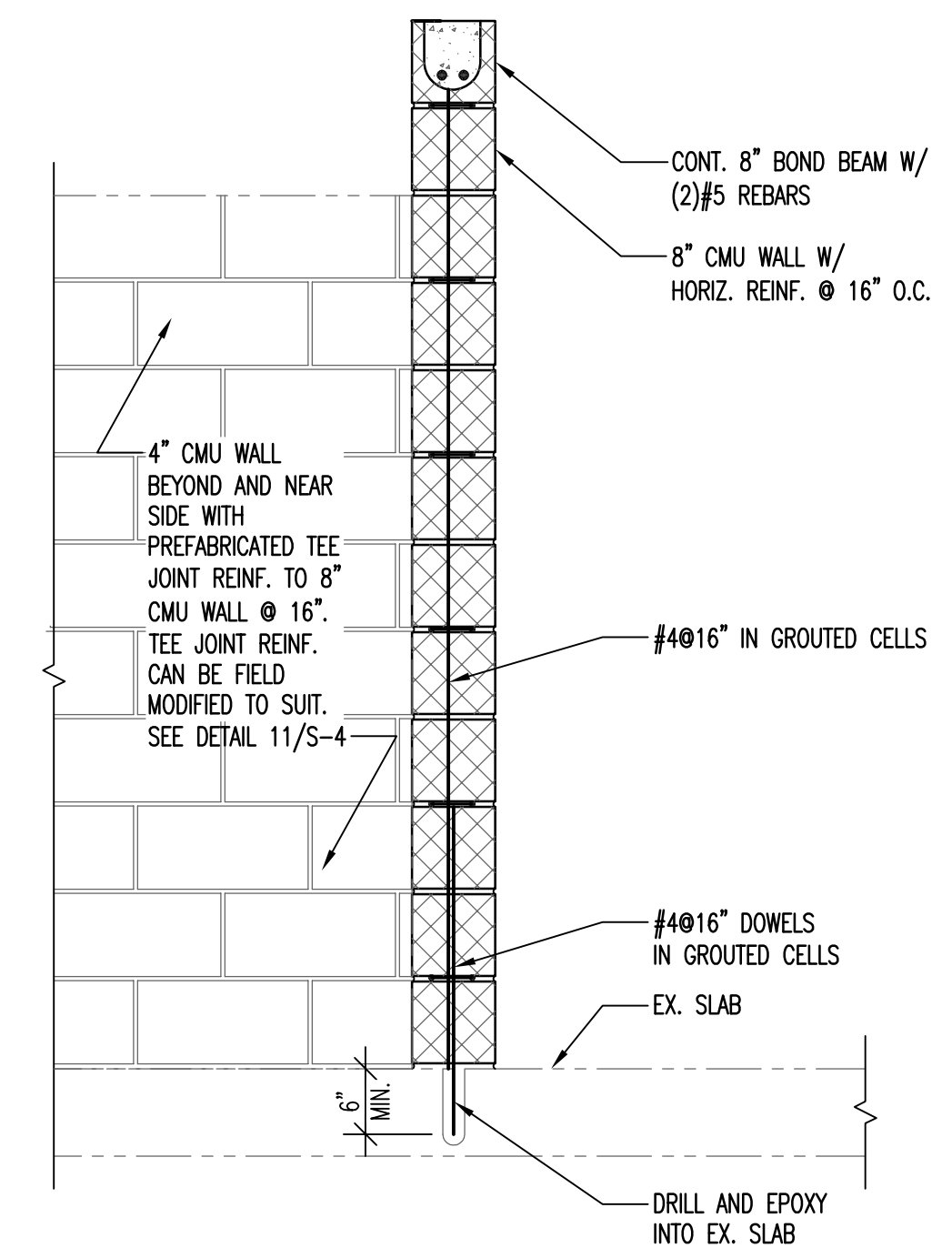
SECTIONS AND DETAILS  
**S-4**



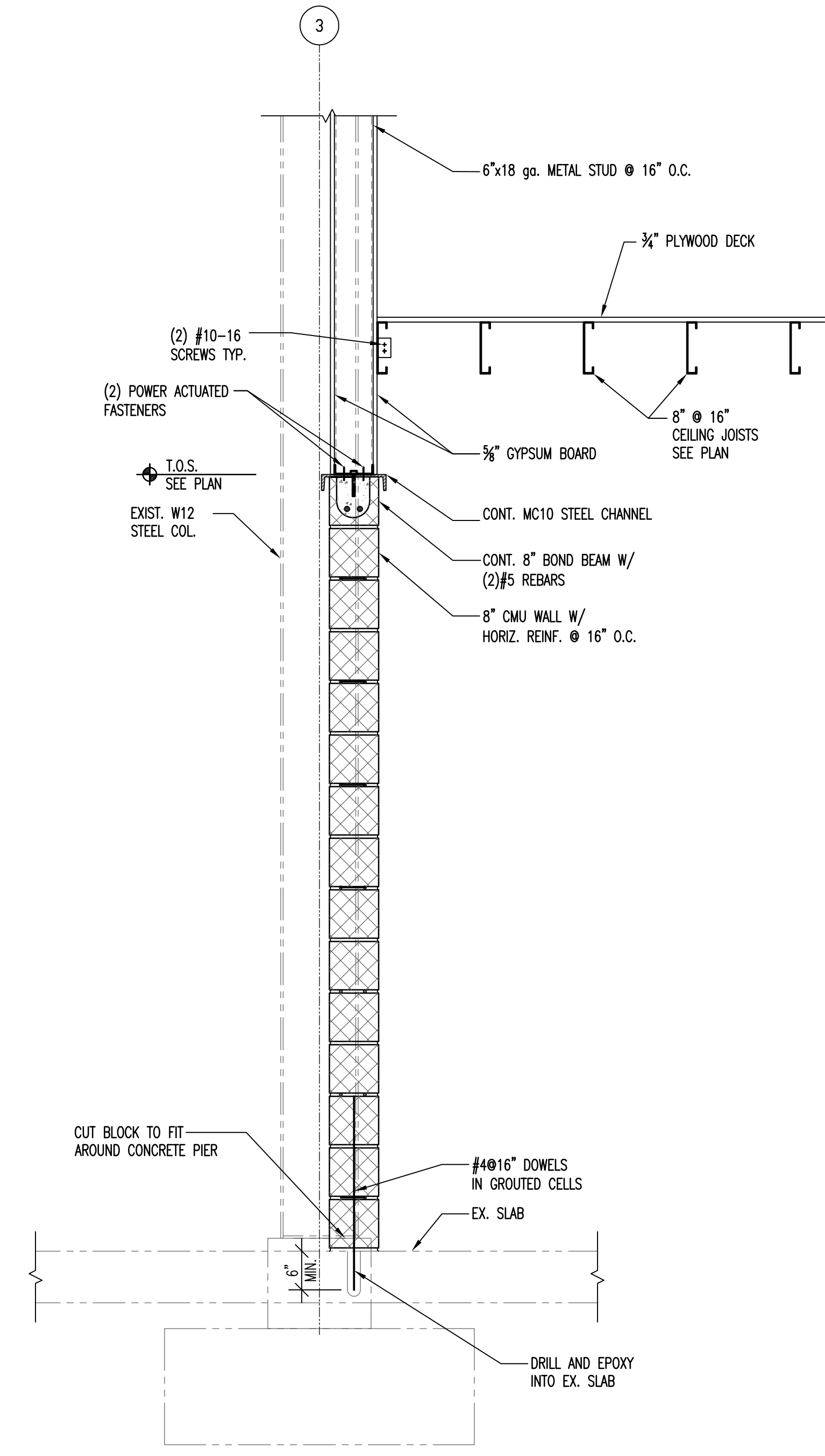
1 SECTION  
S-5 3/4" = 1'-0"



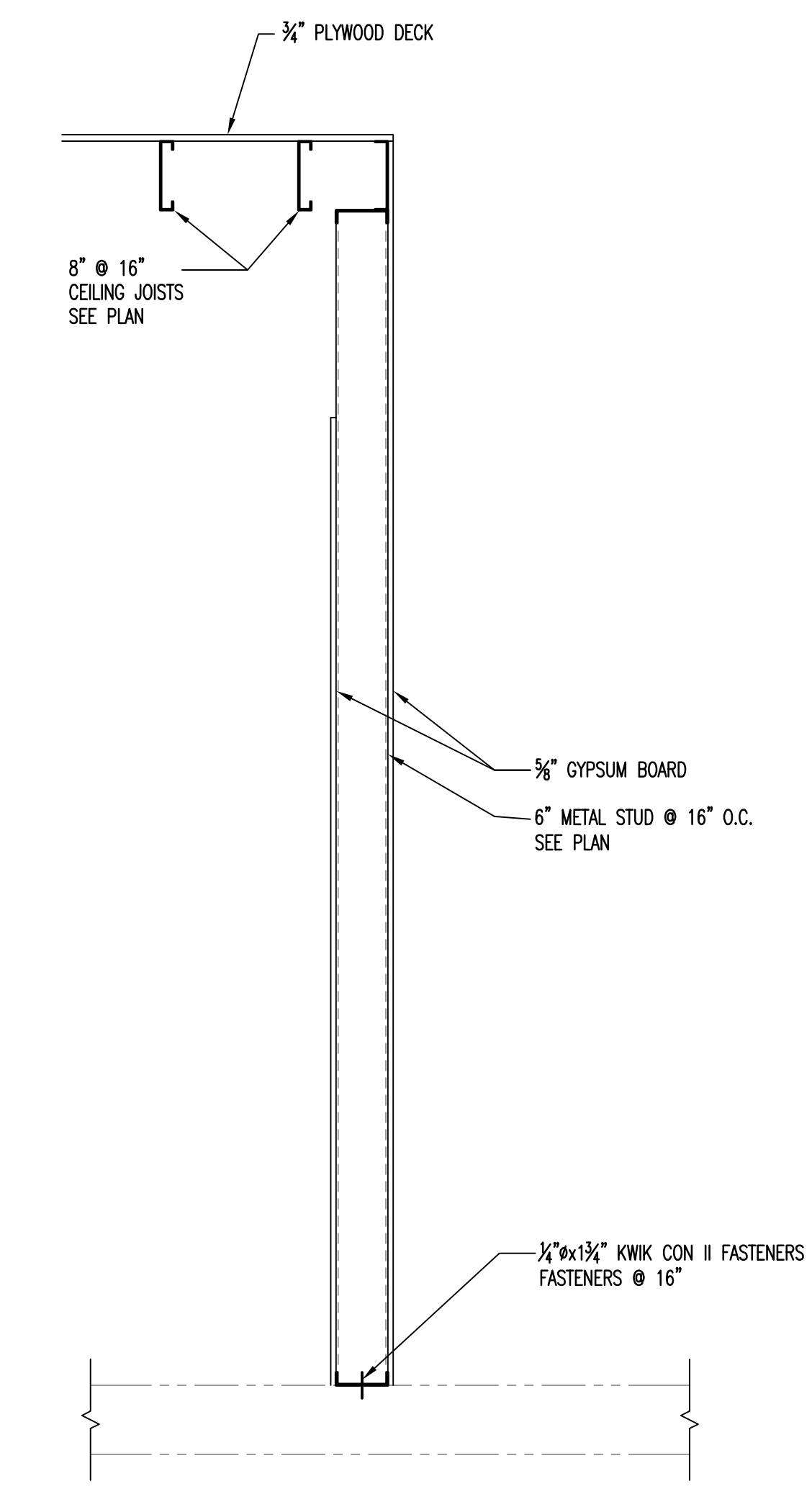
2 SECTION  
S-5 3/4" = 1'-0"



3 SECTION  
S-5 3/4" = 1'-0"

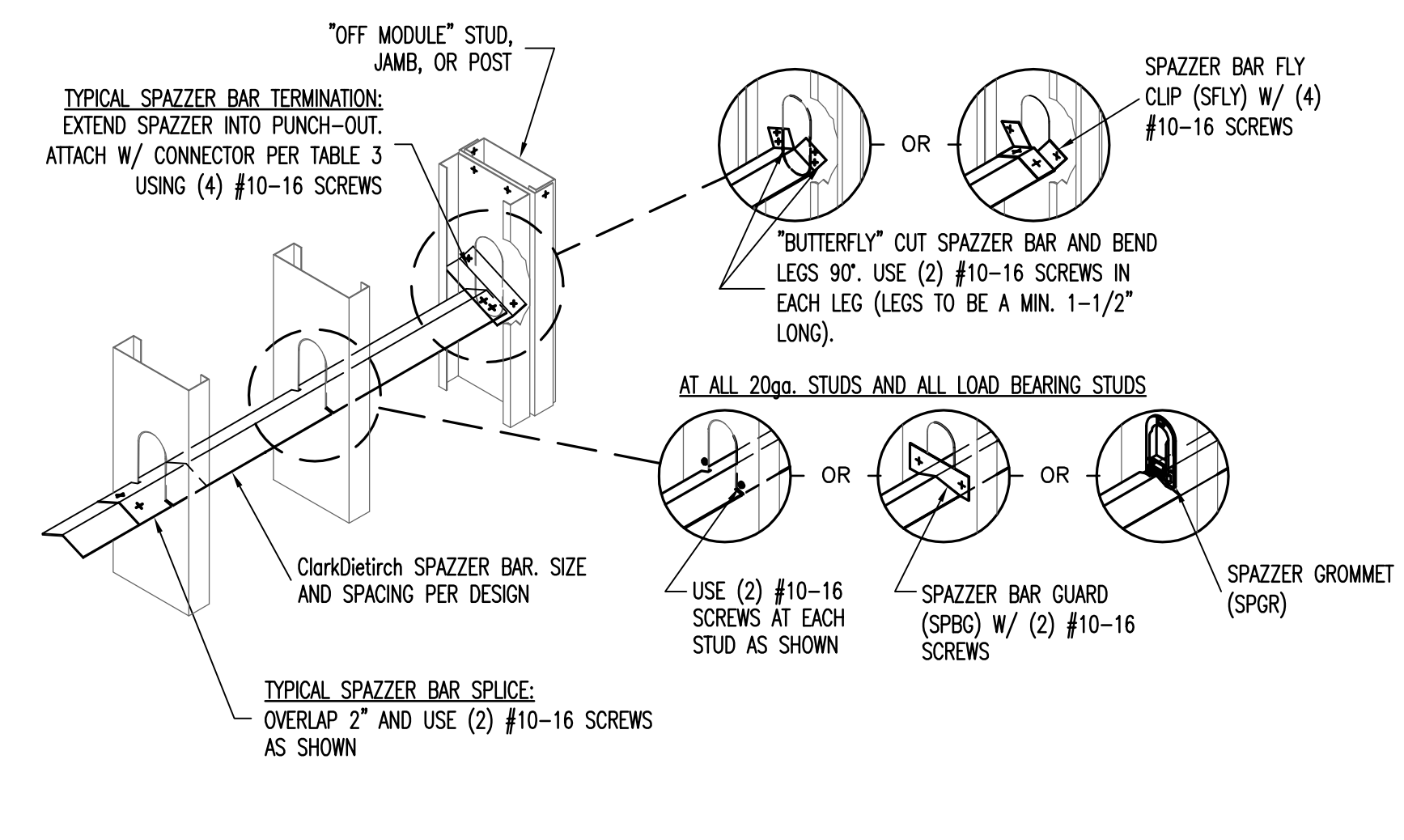


4 SECTION  
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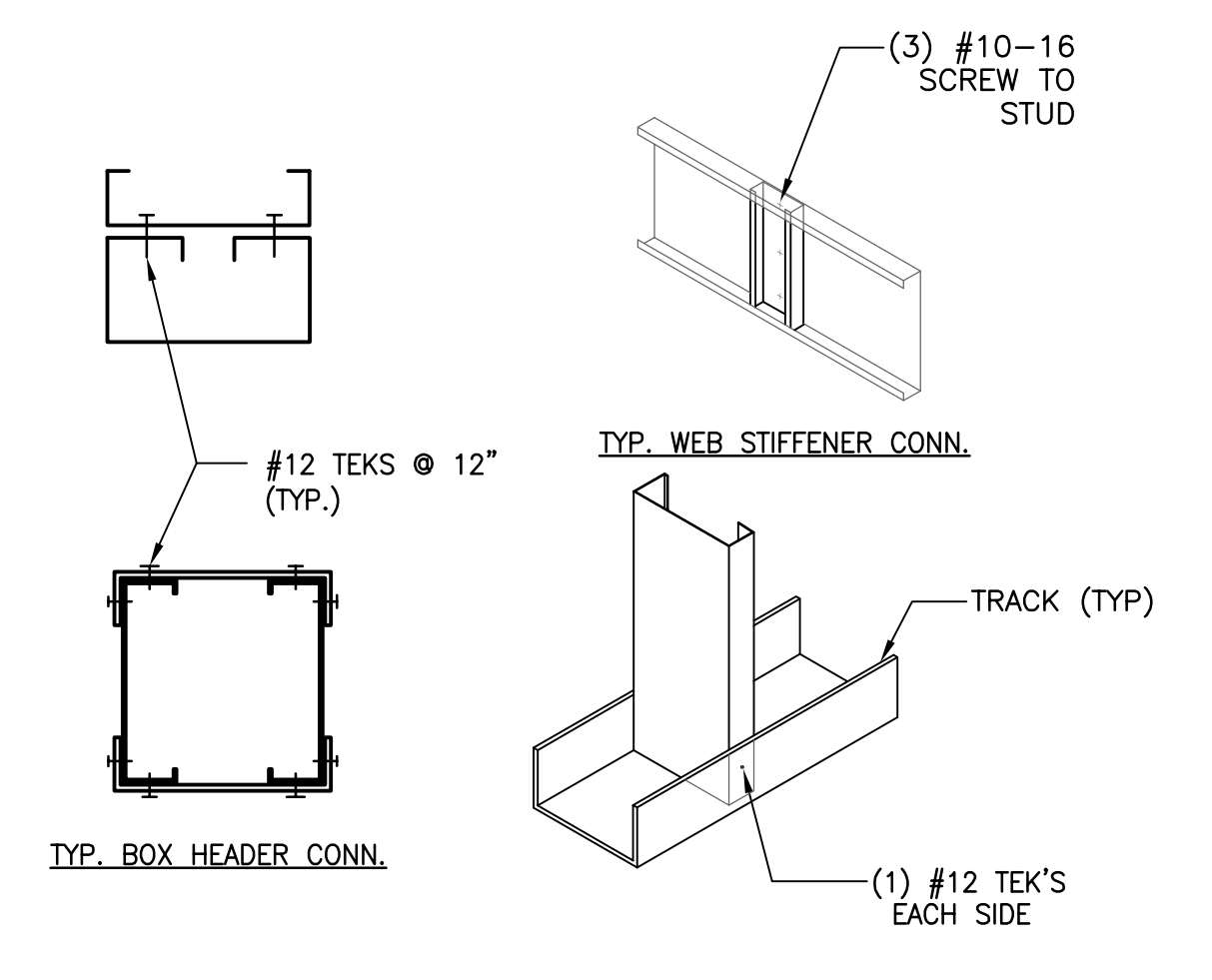


5 SECTION  
S-5 3/4" = 1'-0"

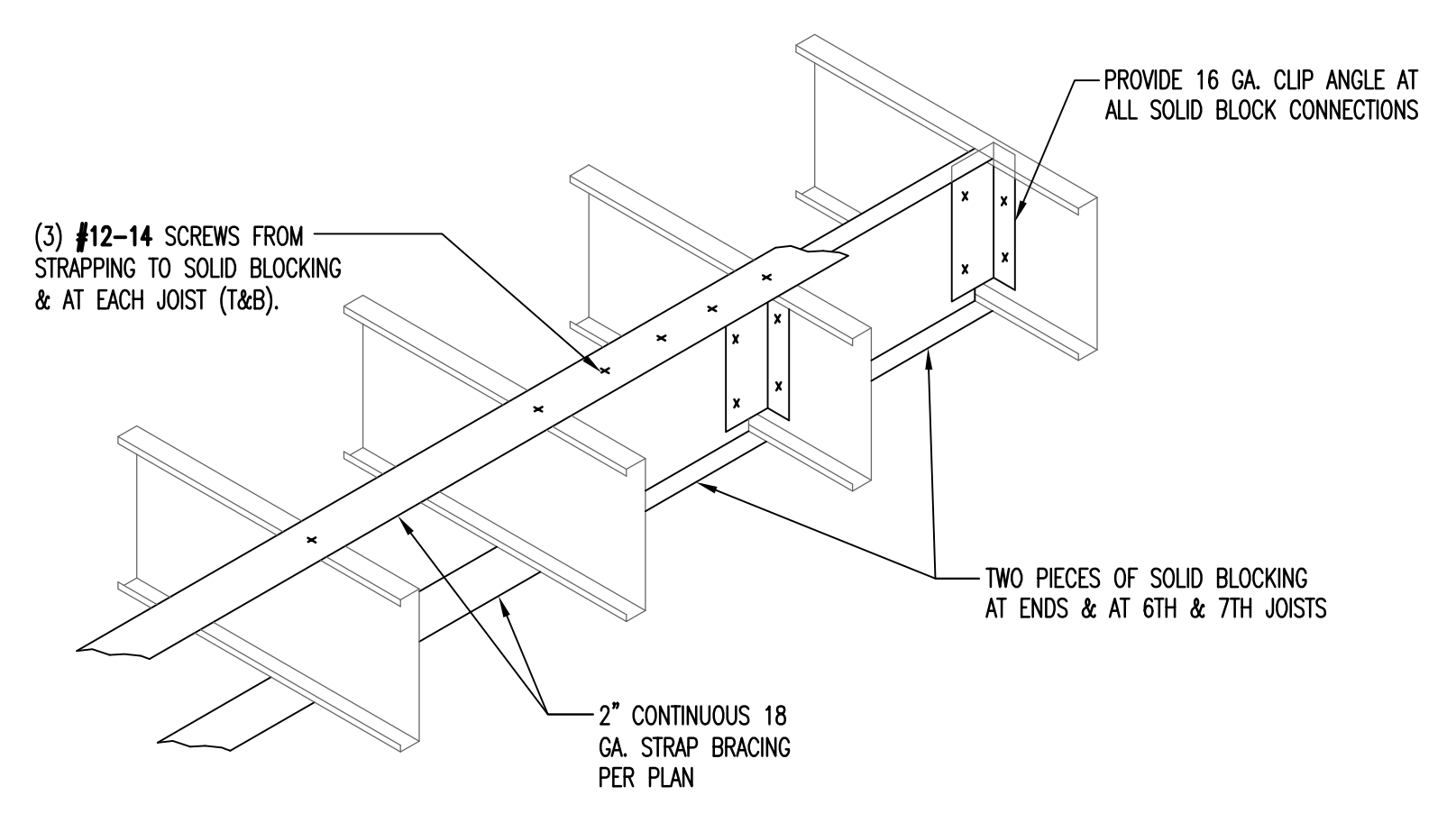
NOTE:  
1. TOP STRAP IS NOT REQUIRED IF TOP FLANGE IS PROPERLY ATTACHED TO DIAPHRAGM RATED SHEATHING



6 SPAZZER 5400 BRIDGING DETAIL  
(FOR 6\"/>



7 TYP. STUD TO TRACK & BUILD-UP BOX HEADER DETAIL  
3/4\"/>



8 TYPICAL BRACING DETAIL @ LT. GAUGE JOISTS  
SCALE: N.T.S.

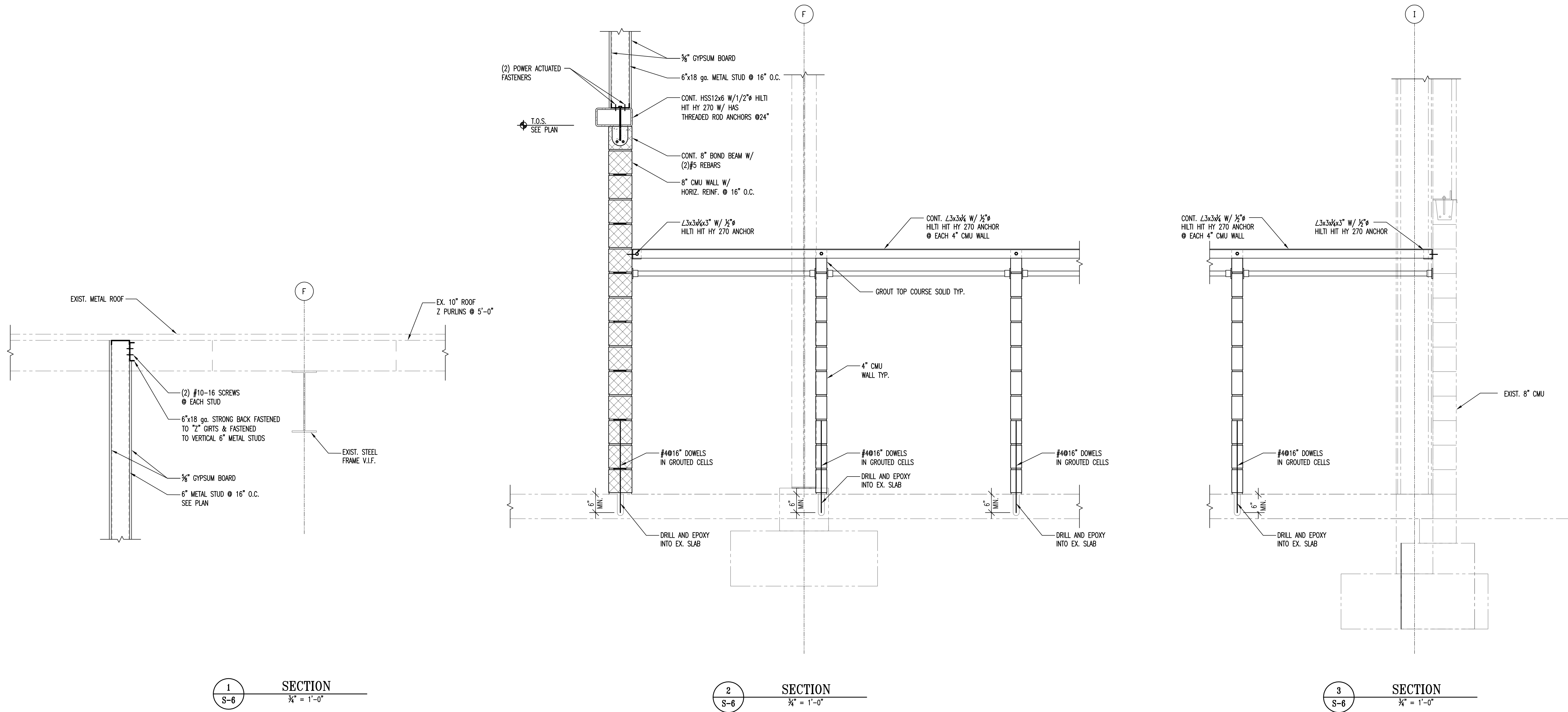
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KEVIN R. ORNDORF



1 SECTION  
S-6  
3/4" = 1'-0"

2 SECTION  
S-6  
3/4" = 1'-0"

3 SECTION  
S-6  
3/4" = 1'-0"

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KEVIN R. ORNDORF

VOID UNLESS GREEN OR EMBOSSED PROFESSIONAL SEAL IS AFFIXED

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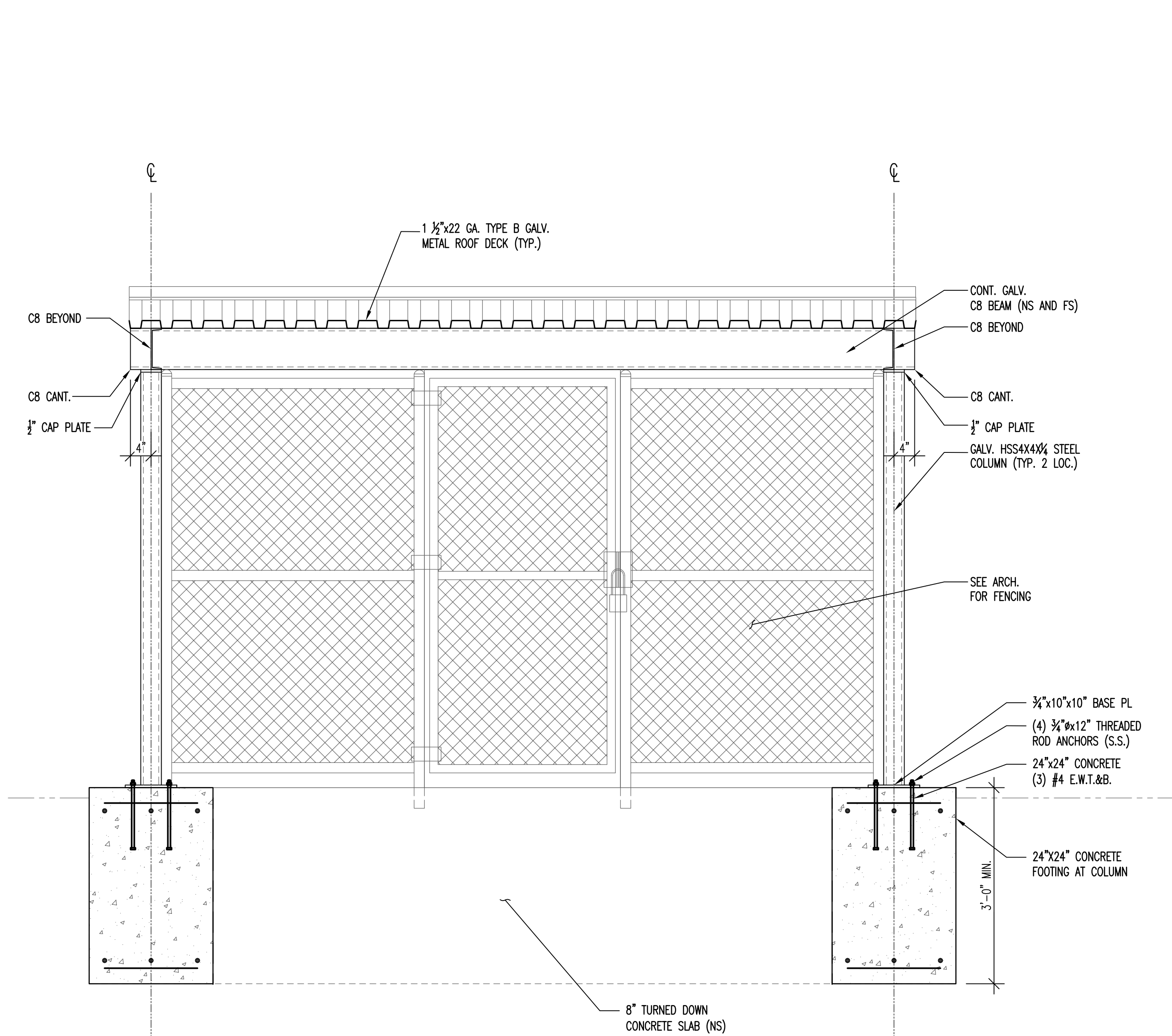
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**SECTIONS AND DETAILS**  
**S-6**

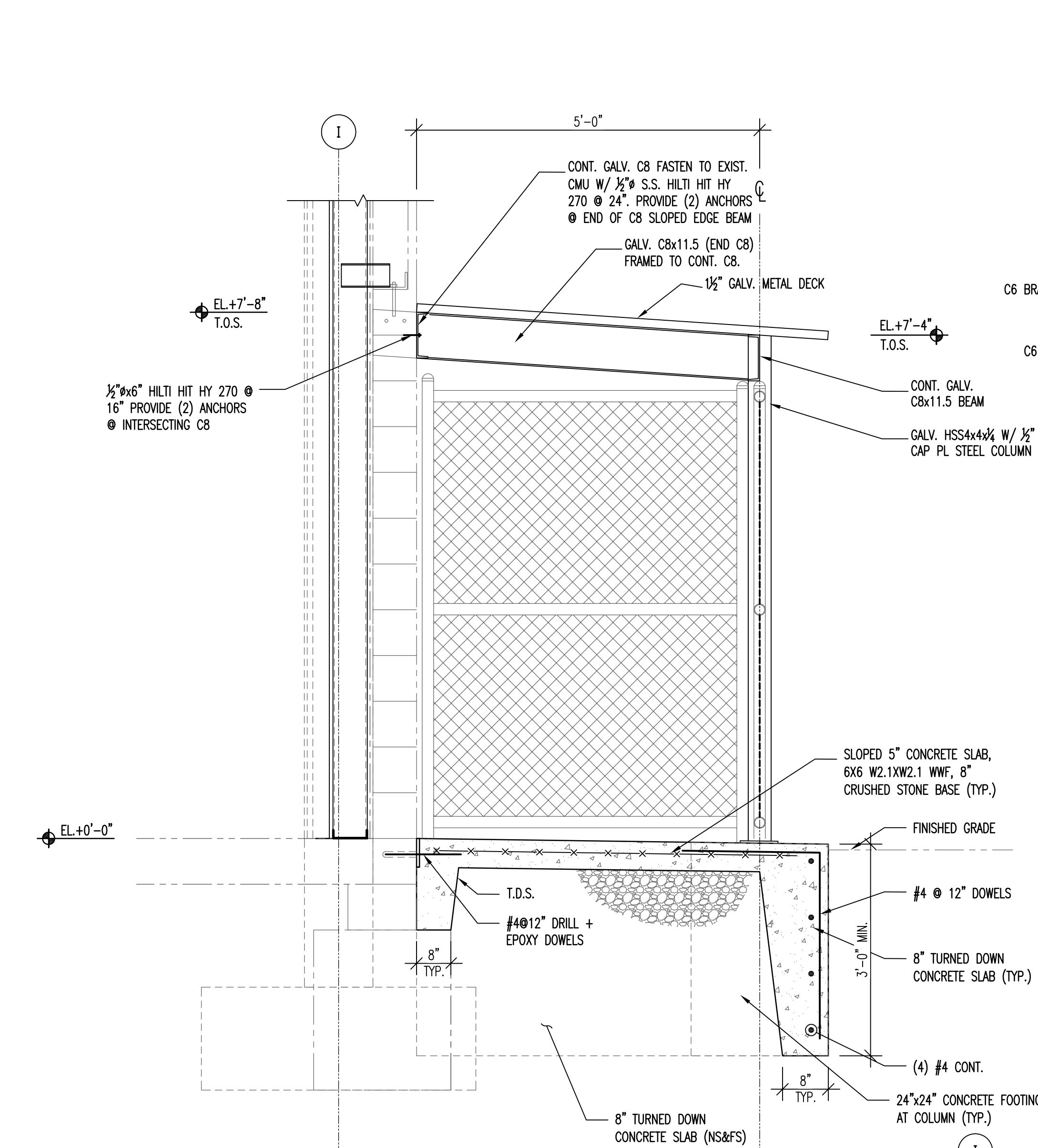
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**New Welding Training Center**  
26 WEST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

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715 GREEN ROAD, BELLMAIR, NEW JERSEY 08031 (609) 398-0200

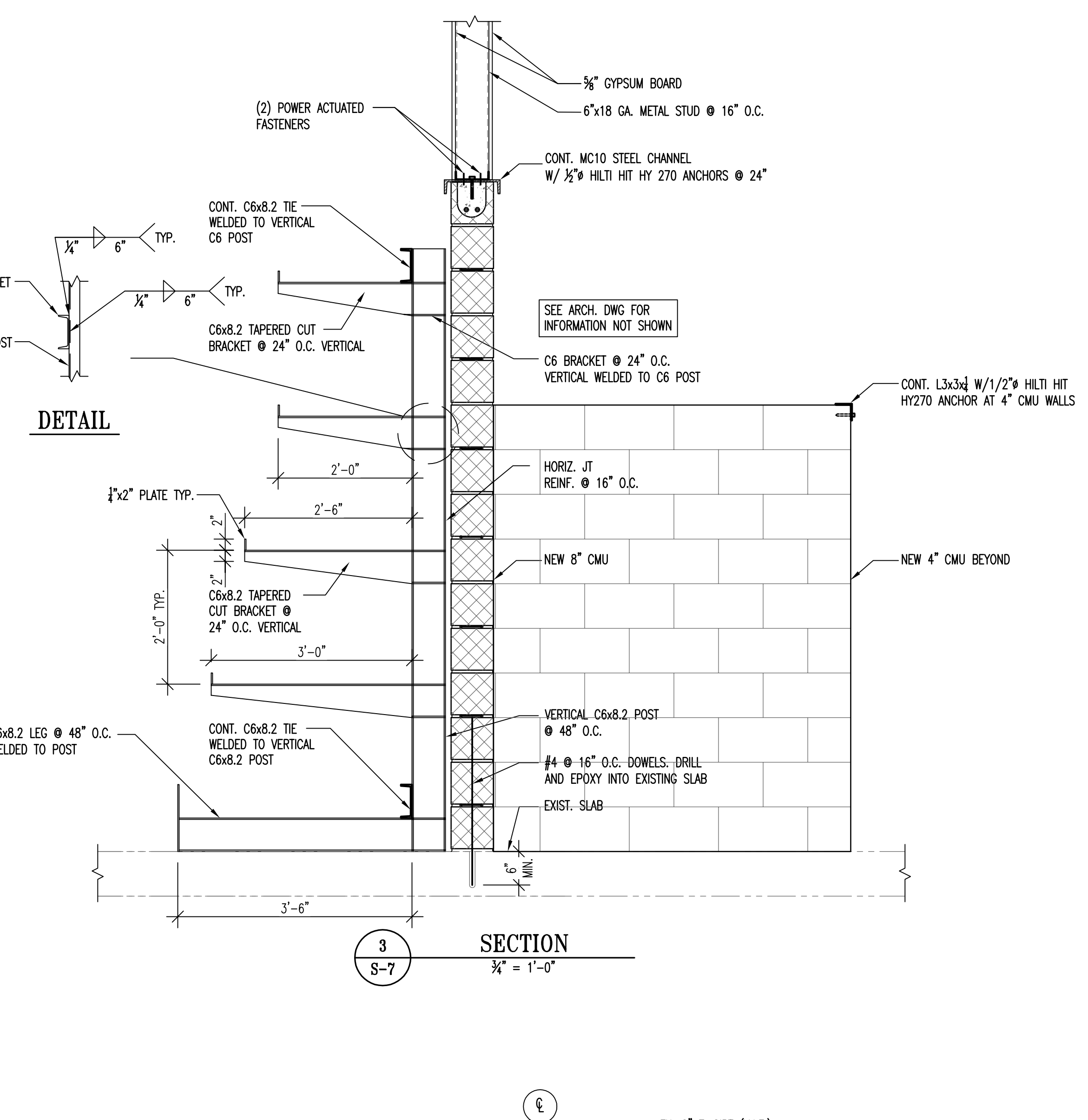
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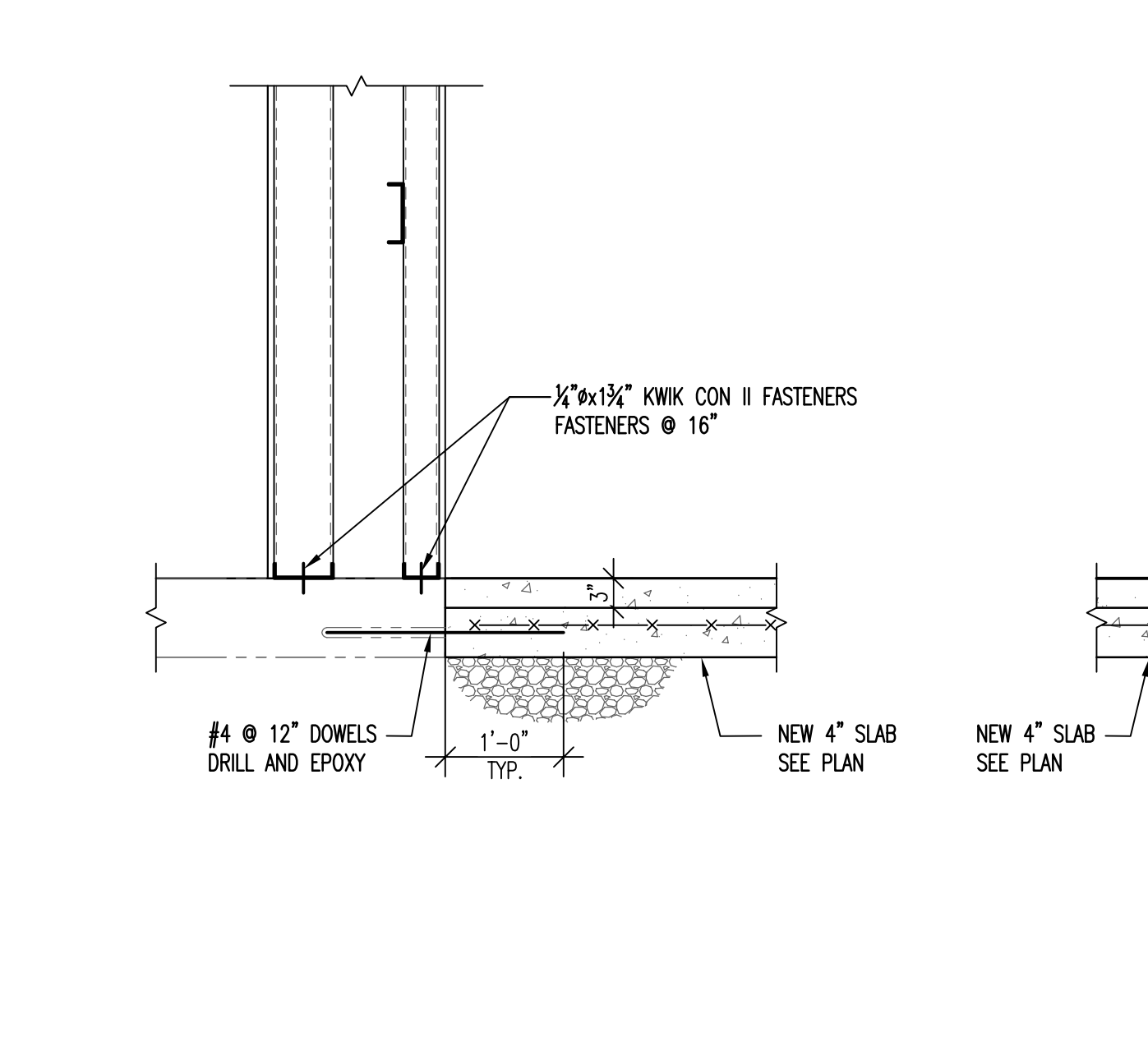
1 SECTION  
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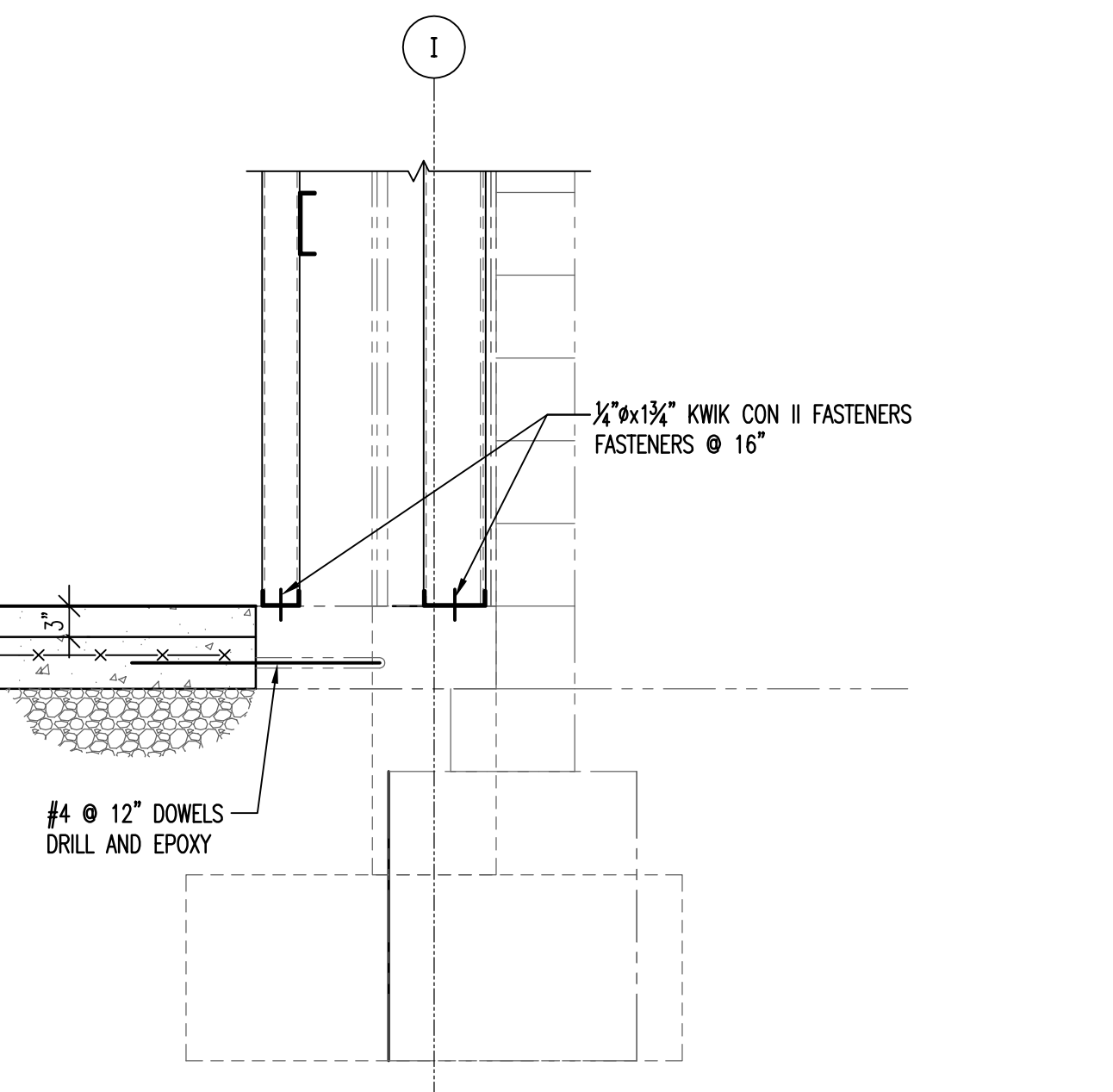
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3/4" = 1'-0"



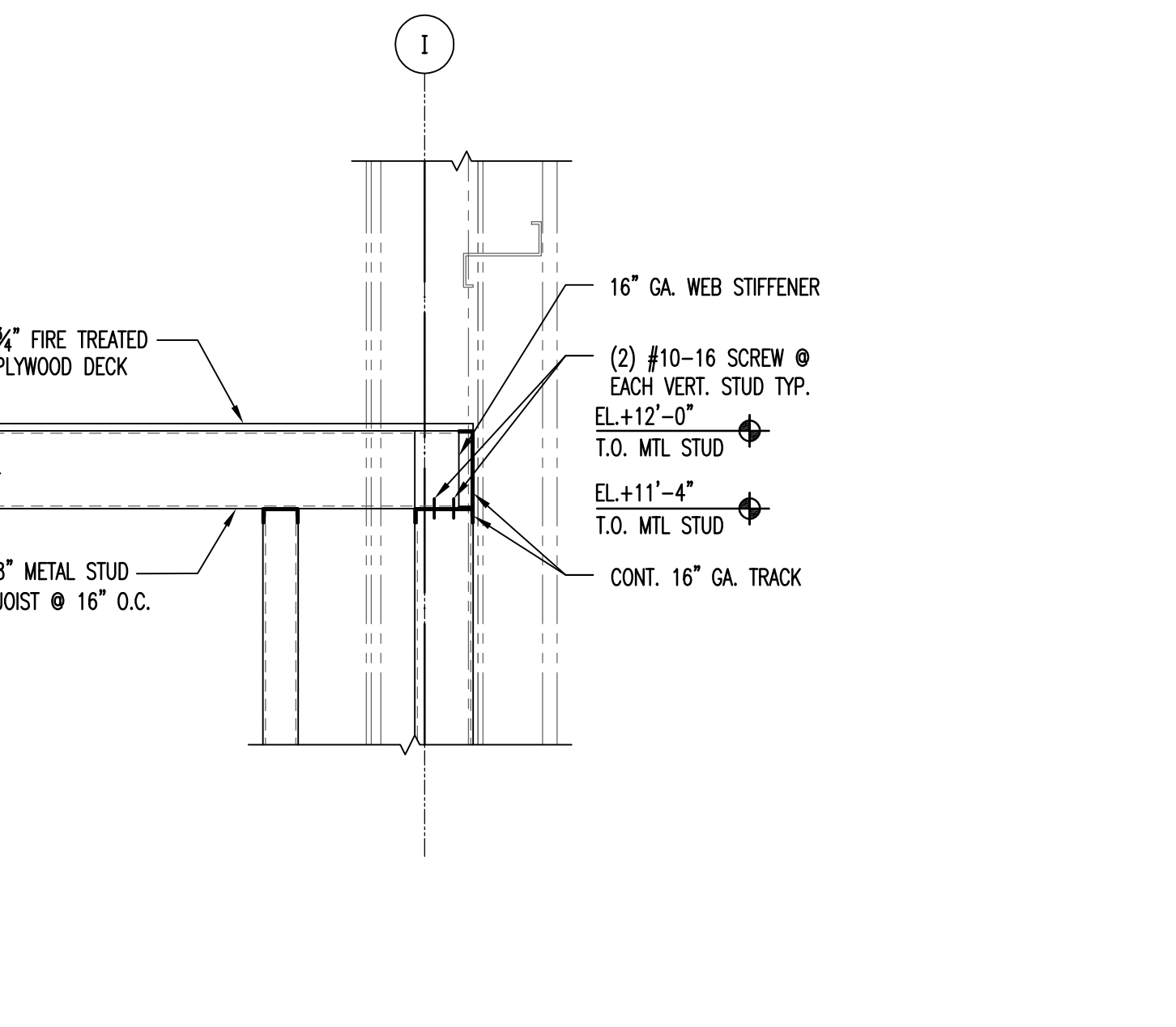
3 SECTION  
3/4" = 1'-0"



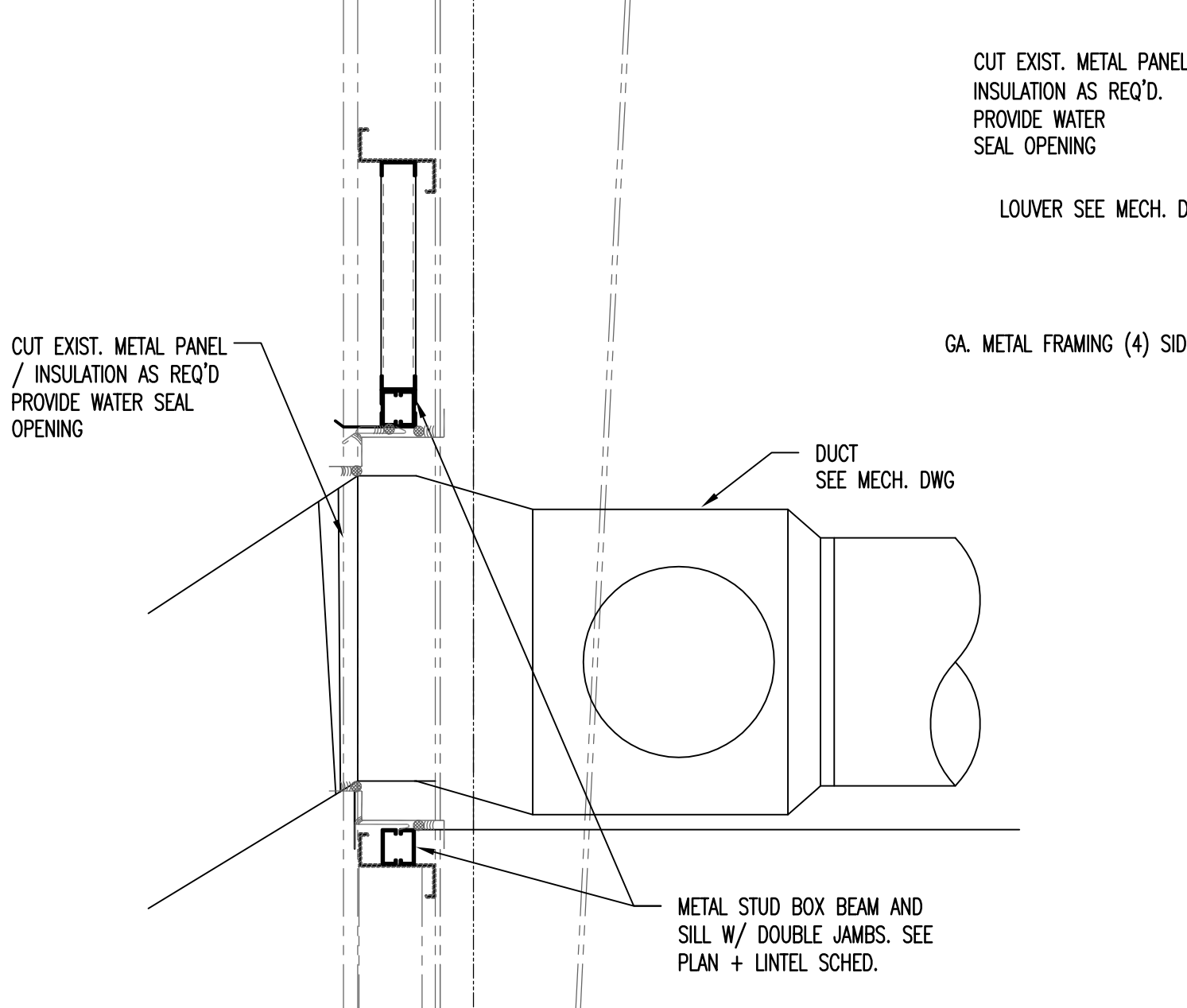
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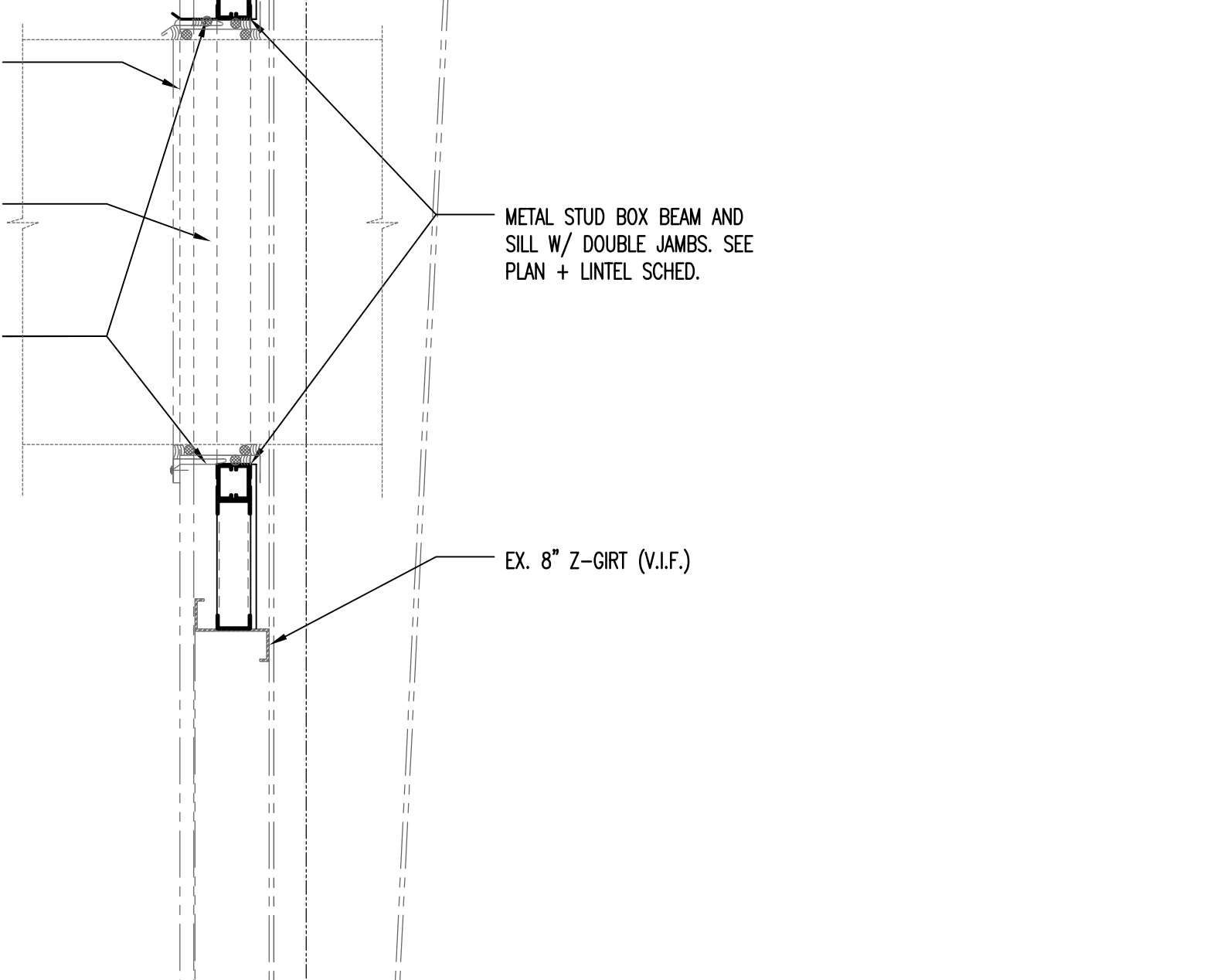
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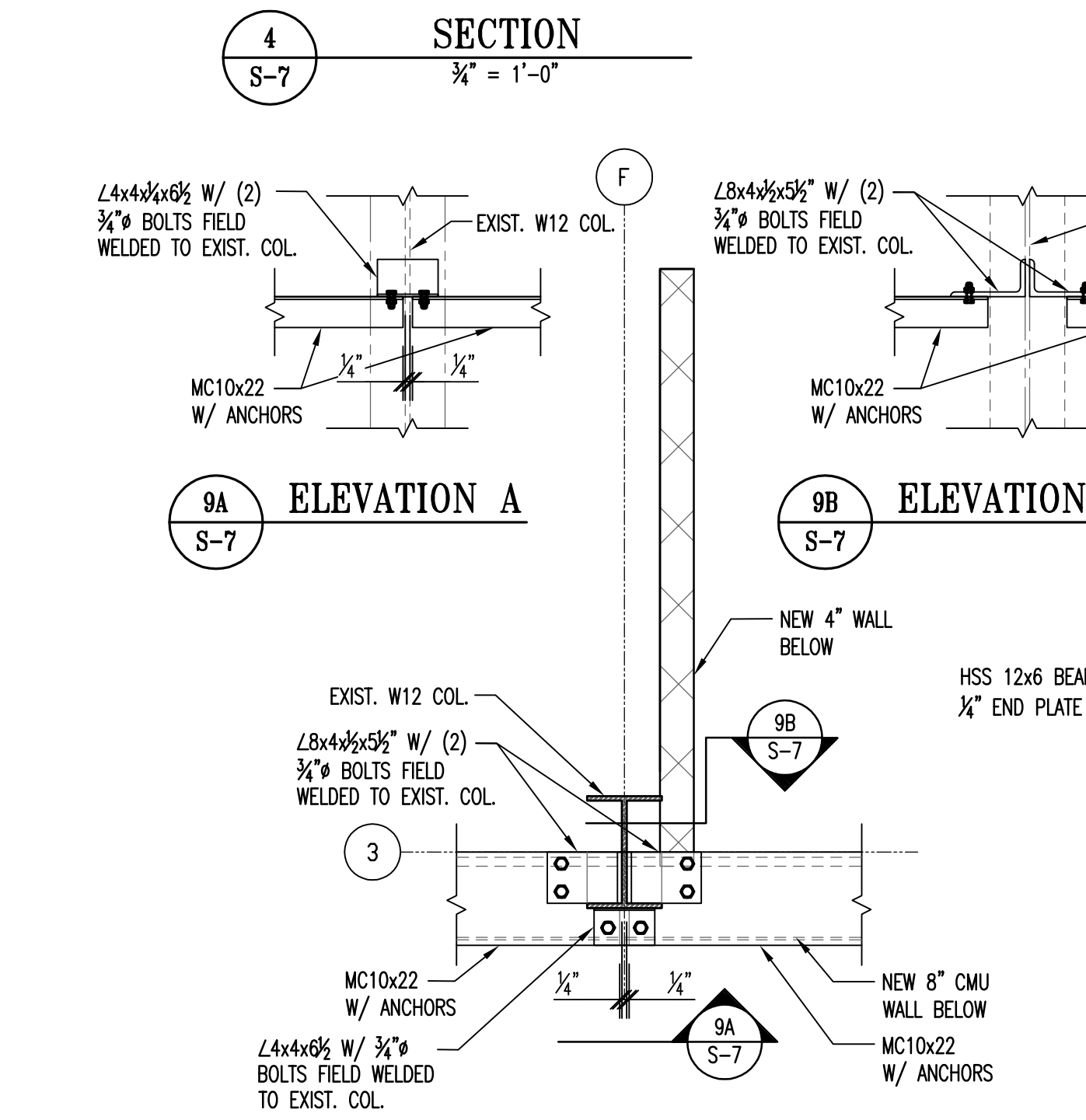
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3/4" = 1'-0"



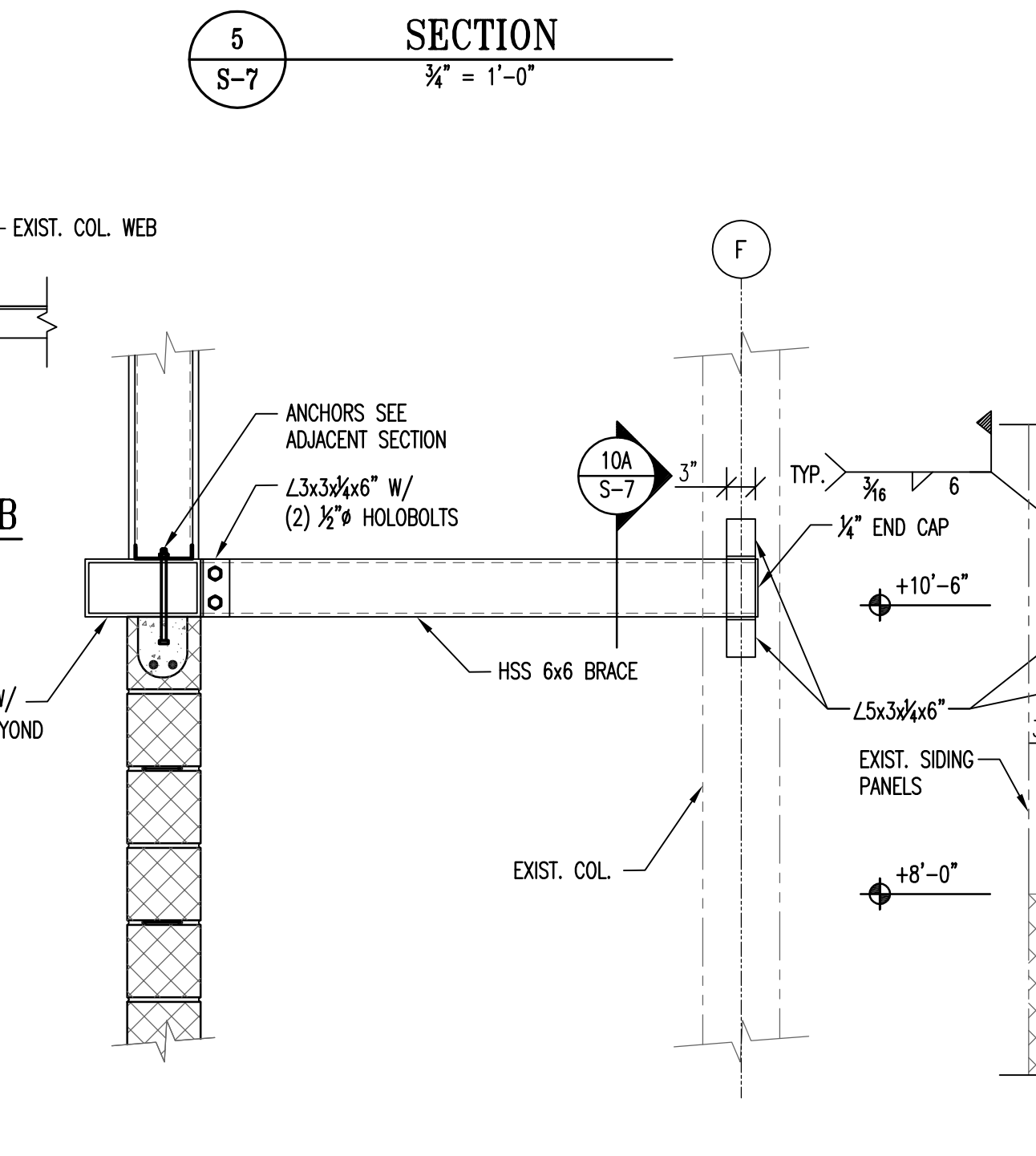
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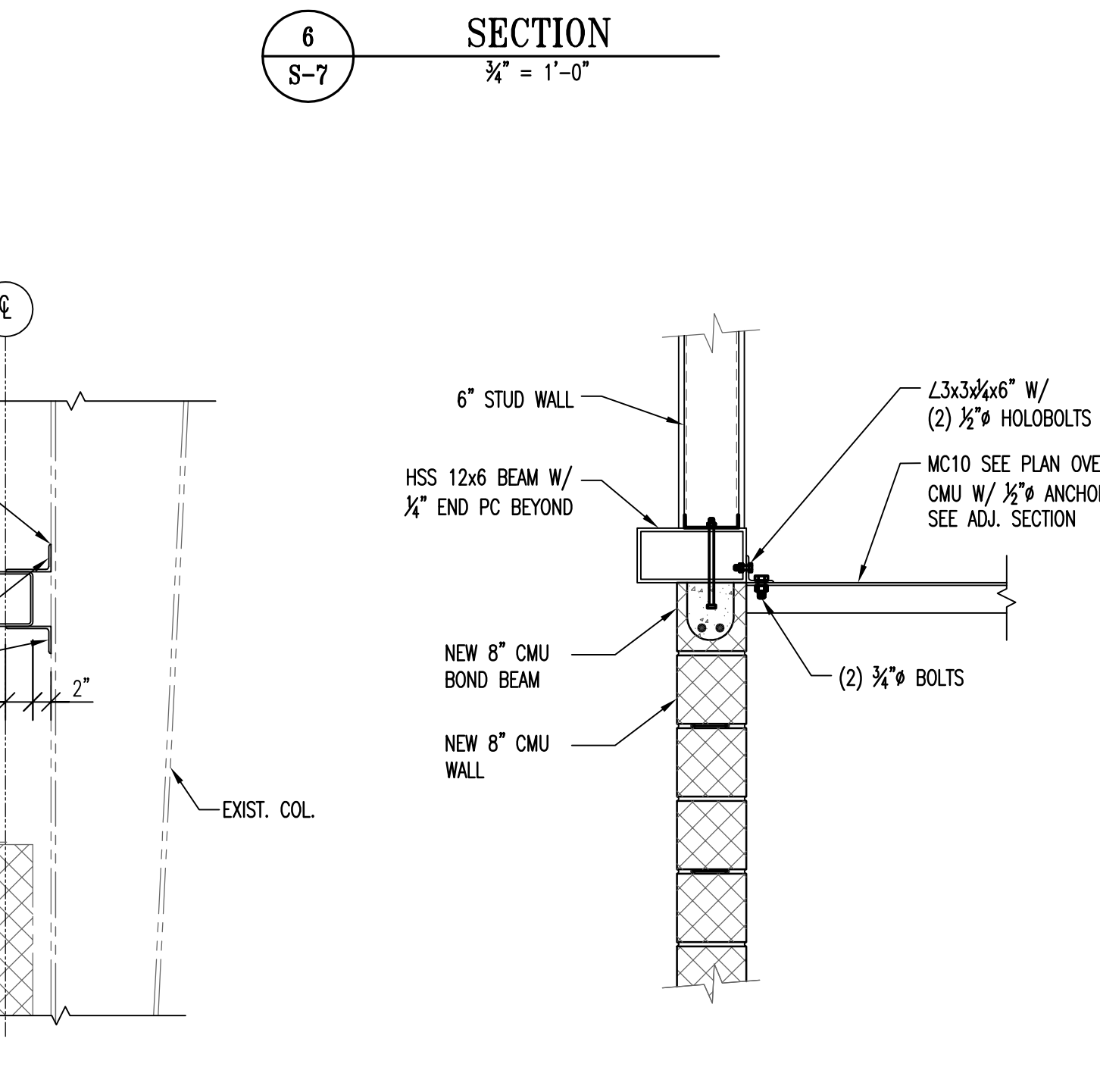
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3/4" = 1'-0"



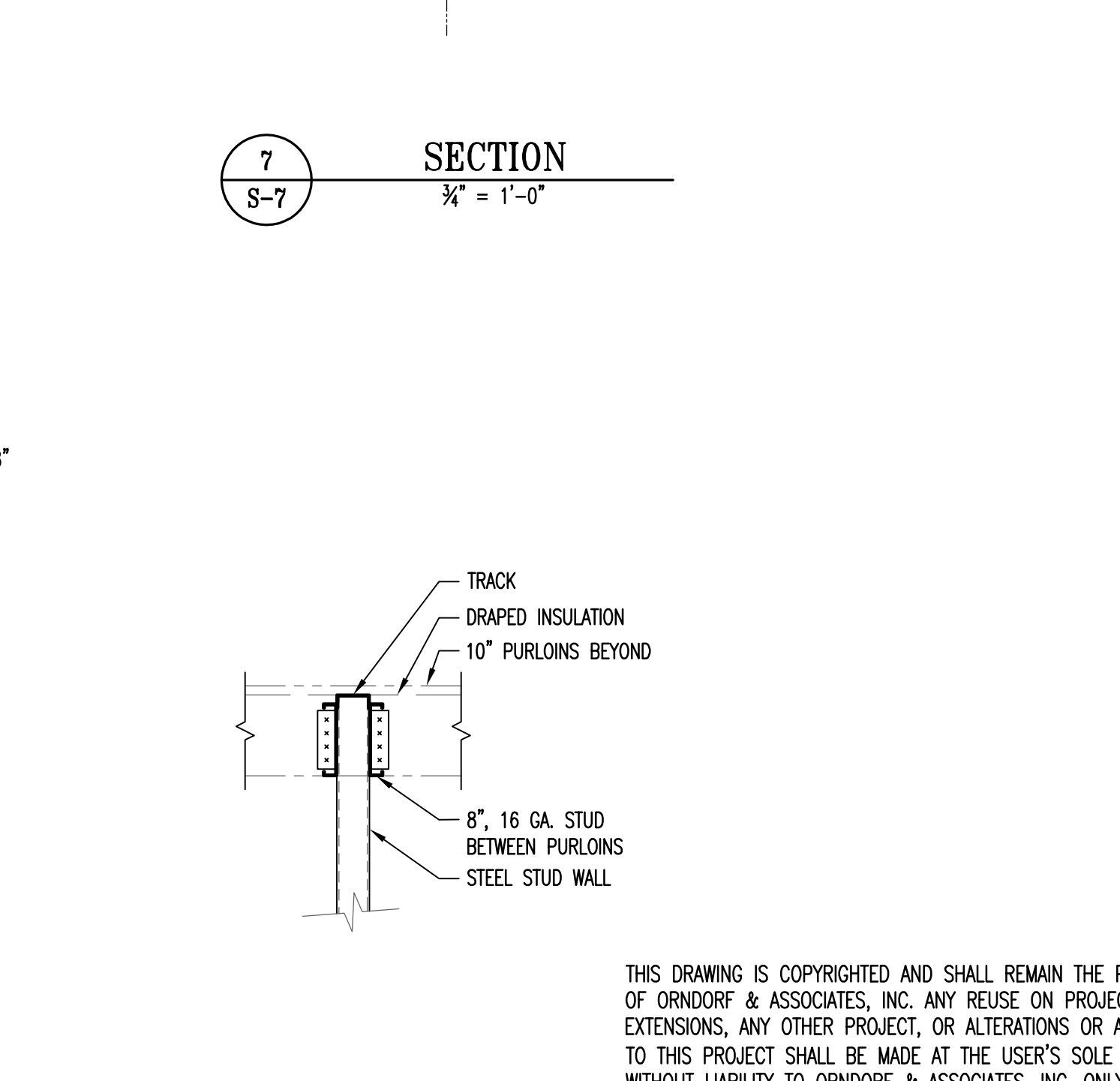
9A ELEVATION A  
3/4" = 1'-0"



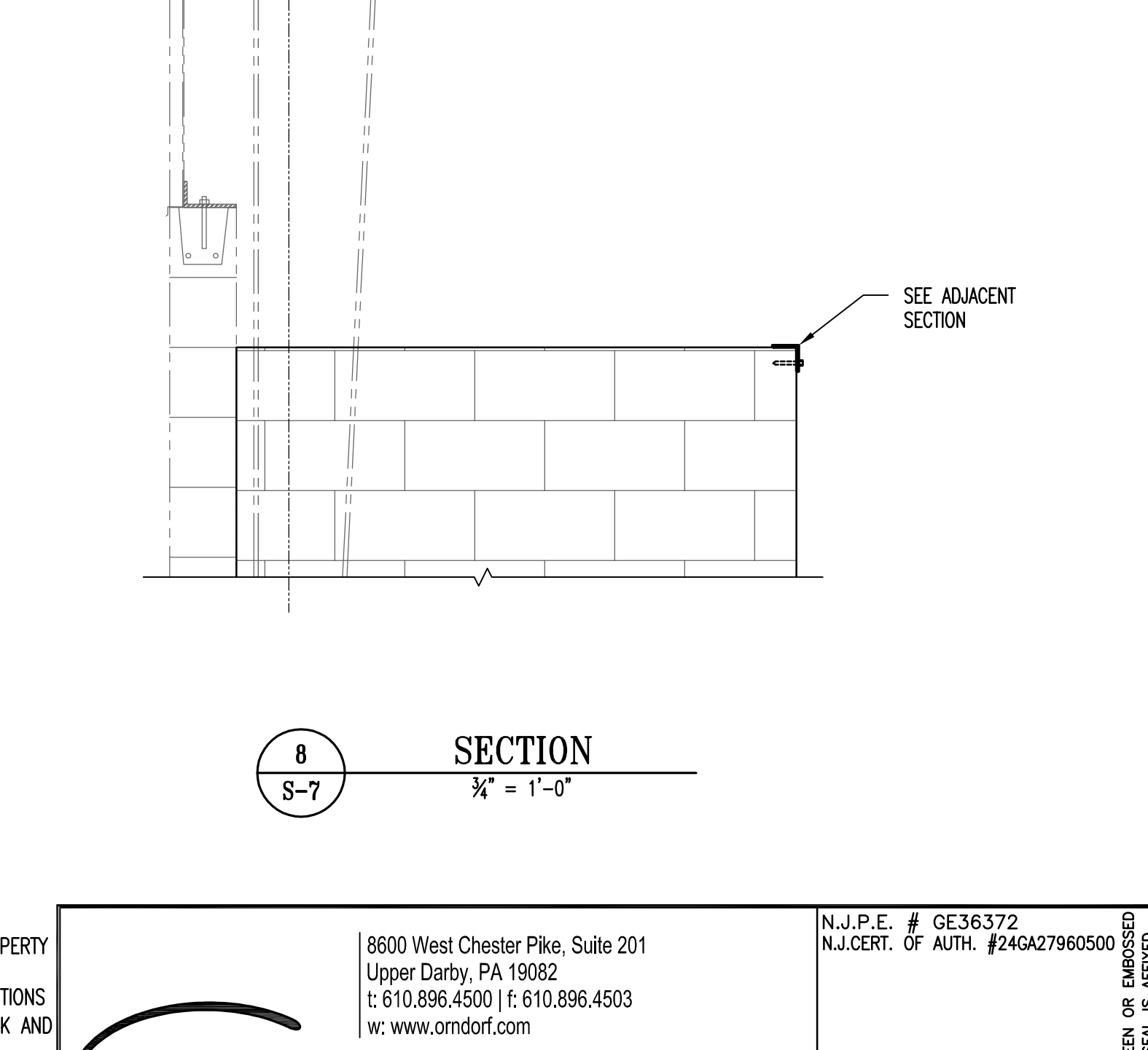
9B ELEVATION B  
3/4" = 1'-0"



10 SECTION  
3/4" = 1'-0"



11 SECTION  
3/4" = 1'-0"



12 SECTION  
3/4" = 1'-0"



9 PLAN VIEW  
3/4" = 1'-0"

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	340.827	KEVIN R. ORNDORF

ISSUED FOR SELECT GENERAL CONTRACTOR BID: 06-25-2019

IRON WORKERS LOCAL 399  
New Welding Training Center  
26 WEST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

GA Architects A Professional Corporation of Architects and Planners  
715 GREEN ROAD, BELLMAR, NEW JERSEY 08037 (856) 398-0200

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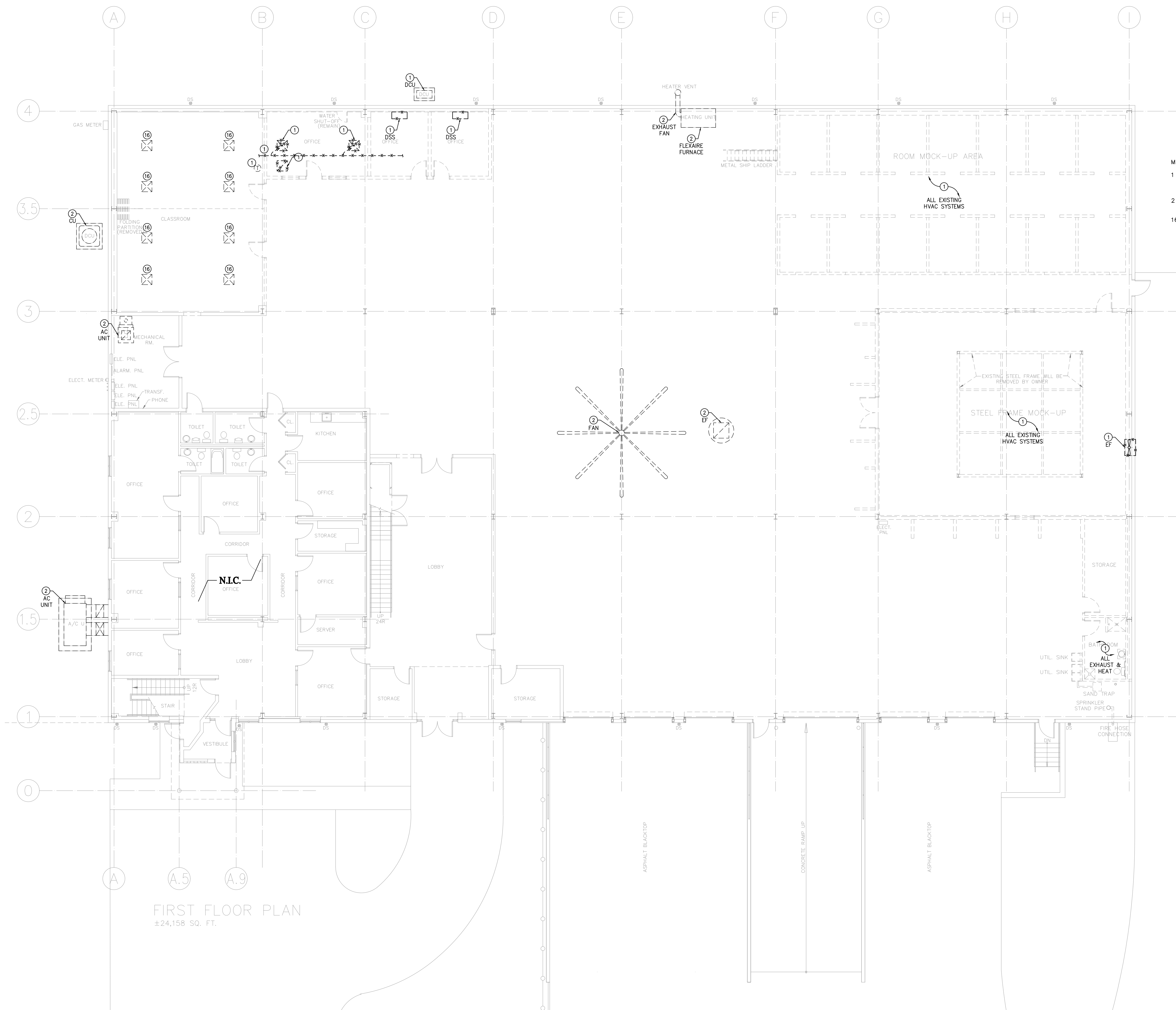
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<b>SECTIONS AND DETAILS</b>	
<b>S-7</b>	

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET  
 FOR ALL NOTES REFER TO NOTES ON M-4

PRIOR TO BIDDING, MECHANICAL CONTRACTOR  
 TO VISIT SITE PER SPECIFICATION 15010  
 ALL WORK NEW U.N.O.  
 ALL WORK BASE BID U.N.O.

**MECHANICAL SHEET NOTES**

- 1 EXISTING TO BE REMOVED. REMOVE ALL APPURTENANCES. CAP ALL FINISHED SURFACES. PATCH EXISTING SURFACES DISTURBED TO MATCH ADJACENT SURFACES.
- 2 EXISTING TO REMAIN. ITEM AS INDICATED. VERIFY ALL CONDITIONS IN FIELD. PROTECT DURING CONSTRUCTION.
- 16 EXISTING AIR DEVICE TO TEMPORARILY BE REMOVED AND REPLACED FOR NEW CEILING. CLEAN AND REBALANCE FOR AIR QUANTITY INDICATED.



FIRST FLOOR PLAN  
 ±24,158 SQ. FT.

1 MECHANICAL DEMOLITION PLAN  
 M-1 SCALE: 1/8" = 1'-0"

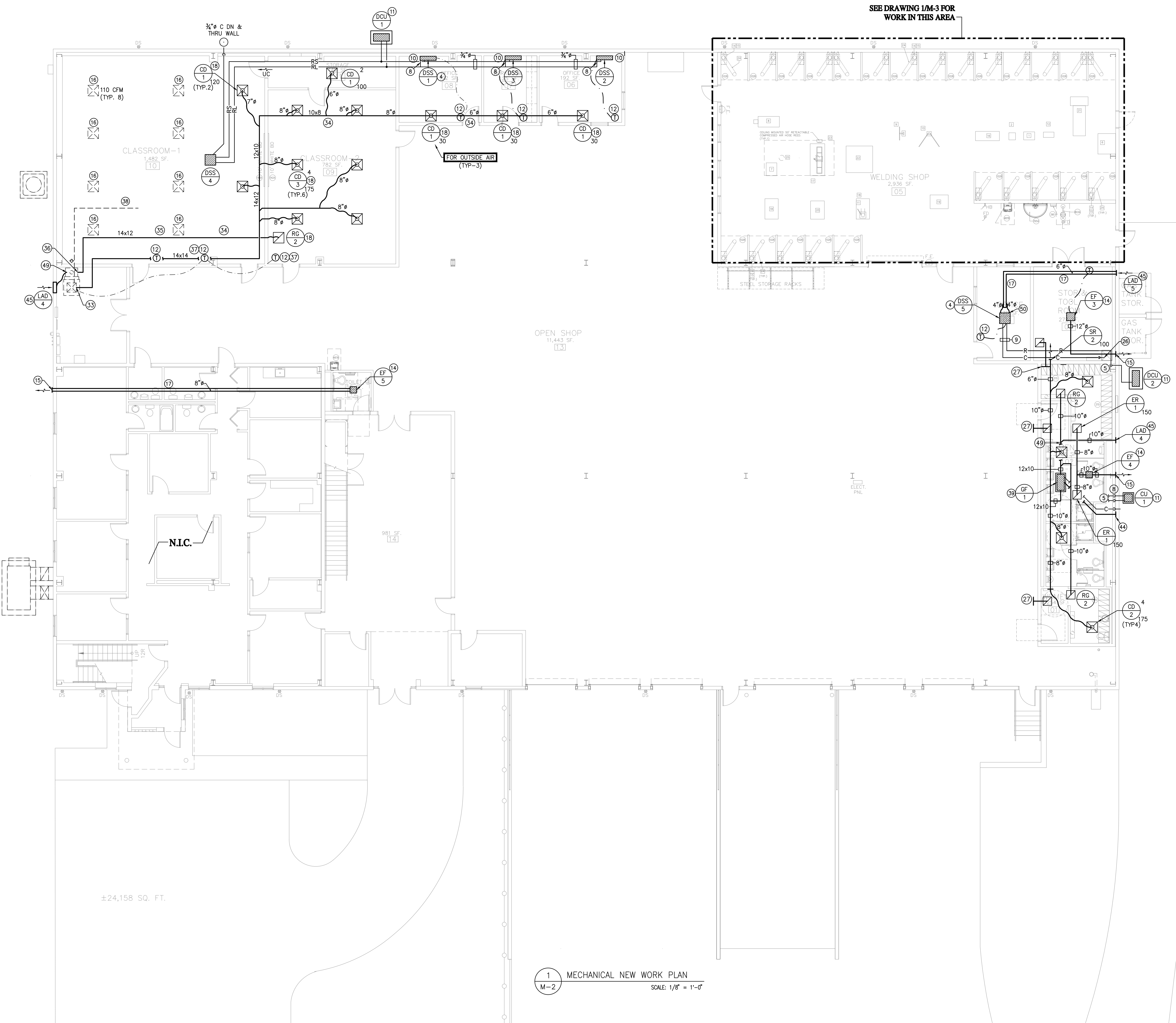
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Project No. 19-13  
 Date: 06-04-19  
 Scale:

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET  
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PRIOR TO BIDDING, MECHANICAL CONTRACTOR  
TO VISIT SITE PER SPECIFICATION 15010  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.



MECHANICAL SHEET NOTES

- 4 NEW DUCTLESS SPLIT SYSTEM INDOOR UNIT.
- 5 NEW REFRIGERANT AND CONDENSATE PIPE DOWN.
- 8 NEW REFRIGERANT AND CONDENSATE PIPE THRU EXISTING WALL. CONDENSATE LINE DISCHARGE AT GRADE.
- 9 NEW REFRIGERANT AND CONDENSATE PIPE ABOVE CEILING.
- 10 NEW REFRIGERANT PIPE CONNECT TO NEW CONDENSING UNIT PER UNIT MANUFACTURERS' REQUIREMENTS.
- 11 NEW CONDENSING UNIT ON NEW 4" THICK CONCRETE PAD, PAD 6" LARGER THAN UNIT. CONCRETE SHALL BE 4,200 PSI CONCRETE, CLASS A OVER 4" CRUSHED STONE AND COMPACTED FILL. 1/4" ROUNDOFF OR CHAMFER ALL EXPOSED CORNERS.
- 12 NEW THERMOSTAT. VERIFY EXACT LOCATION IN FIELD WITH EXISTING CONDITIONS. REMOVE EXISTING THERMOSTAT AND INSTALL NEW THERMOSTAT IN PLACE (IF APPLICABLE). NOTE - DO NOT USE EXISTING LOCATION IF HEAT GENERATING SOURCE, IE COMPUTER MONITOR, ETC. IS NEARBY.
- 14 NEW EXHAUST FAN, SEE SCHEDULE.
- 15 NEW DUCT THRU WALL TO NEW WALL CAP.
- 16 EXISTING AIR DEVICE TO TEMPORARILY BE REMOVED AND REPLACED FOR NEW CEILING. CLEAN AND REBALANCE FOR AIR QUANTITY INDICATED.
- 17 NEW DUCT ABOVE CEILING.
- 18 NEW AIR DEVICE IN NEW CEILING, BALANCE FOR CFM INDICATED.
- 26 CONDENSATE LINE DOWN AND DISCHARGE TO MOP SINK. VERIFY LOCATION IN FIELD.
- 27 PROVIDE TWO RG-1 AND 8"X6" TRANSFER DUCT.
- 33 CONNECT NEW SUPPLY DUCT TO EXISTING SUPPLY DUCT OF UNIT.
- 34 NEW SUPPLY DUCT ABOVE CEILING. VERIFY ROUTE. NOTE - DUCT IN UNCONDITIONED SPACE (WAREHOUSE) AND SHALL BE INSULATED.
- 35 NEW RETURN AIR DUCT ABOVE CEILING. NOTE - DUCT IS IN UNCONDITIONED SPACE AND DUCT INSULATION IS REQUIRED.
- 36 CONNECT NEW RETURN AIR DUCT TO EXISTING RETURN AIR DUCT.
- 37 PROVIDE AVERAGING SENSOR.
- 38 EXISTING SUPPLY DUCT TO REMAIN.
- 39 PROVIDE NEW EMERGENCY DRAIN PAN BELOW UNIT.
- 44 NEW 3" DIA. COMBINATION INTAKE/DISCHARGE THRU WALL.
- 45 NEW LOUVER IN EXISTING WALL. GENERAL CONTRACTOR TO PROVIDE SLEEVE FOR MOUNTING LOUVER IN EXISTING SHEET METAL WALL, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 49 CONNECT NEW OUTSIDE AIR DUCT TO RETURN AIR DUCT WITH AUTOMATIC DAMPER.
- 50 CONNECT OUTSIDE AIR DUCT TO TWO 4" DIA. OUTSIDE AIR CONNECTIONS.

REVISIONS	
a.	e.
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c.	g.

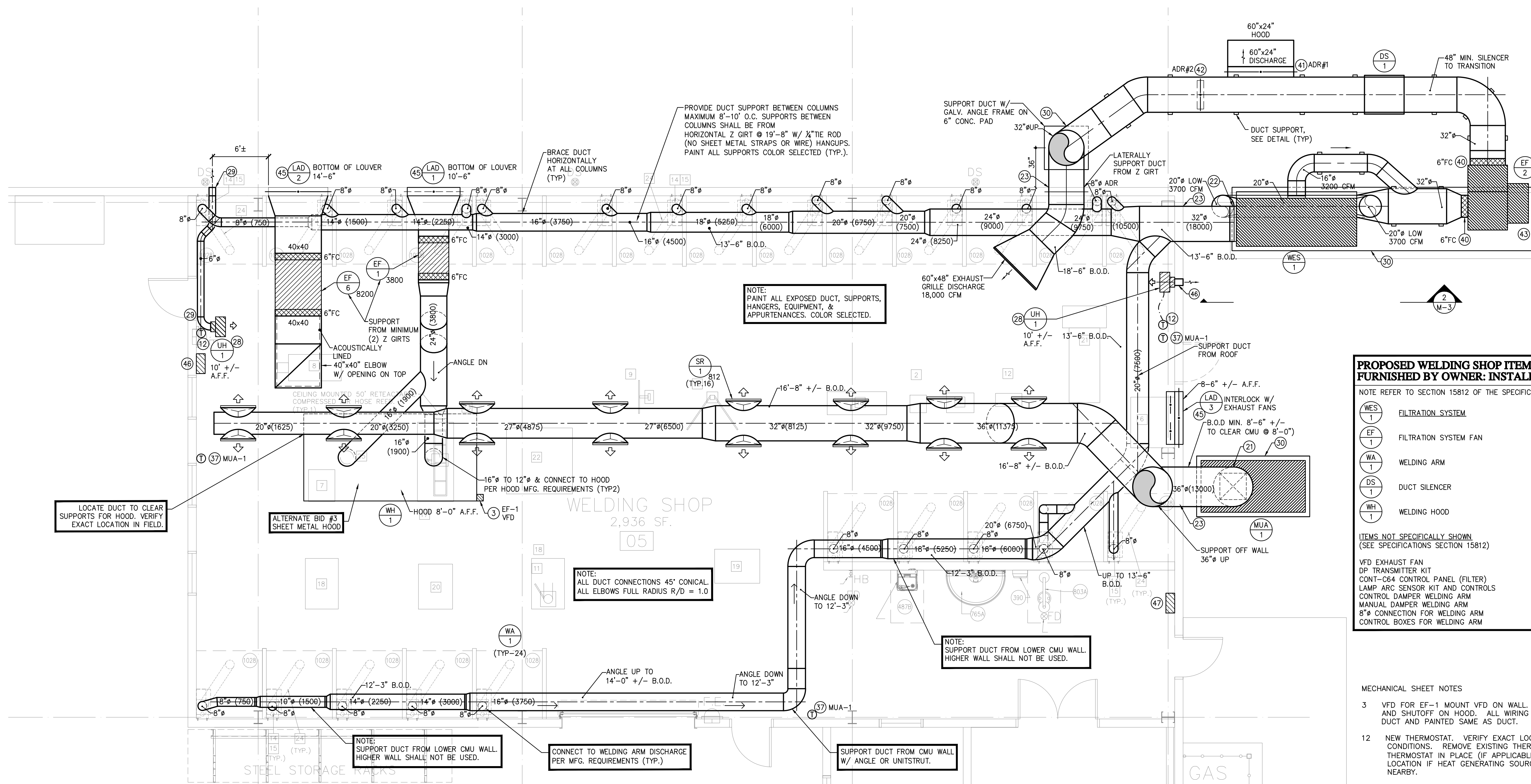
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Scale:

**MECHANICAL NEW WORK PLAN**

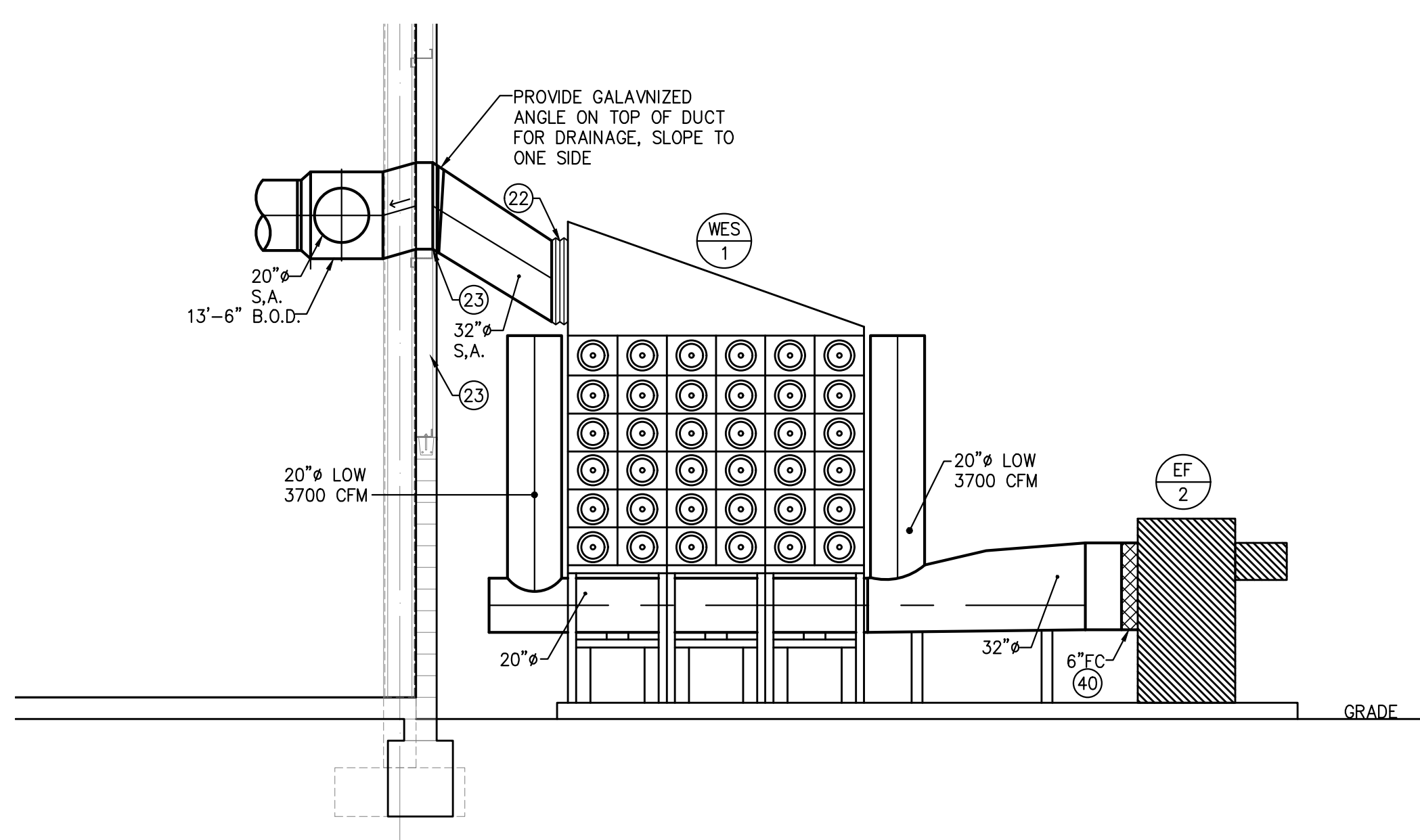
**M-2**

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET  
FOR ALL NOTES REFER TO NOTES ON M-4

PRIOR TO BIDDING, MECHANICAL CONTRACTOR  
TO VISIT SITE PER SPECIFICATION 15010  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.



1 PARTIAL MECHANICAL FLOOR PLAN - WELDING LAB DUST COLLECTION  
SCALE: 1/4" = 1'-0"



2 WELDING LAB DUST COLLECTION ELEVATION  
SCALE: 1/4" = 1'-0"

- PROPOSED WELDING SHOP ITEMS LIST:**  
FURNISHED BY OWNER - INSTALLED BY CONTRACTOR
- NOTE REFER TO SECTION 15812 OF THE SPECIFICATIONS.
- (MES 1) FILTRATION SYSTEM
  - (EF 1) FILTRATION SYSTEM FAN
  - (WA 1) WELDING ARM
  - (DS 1) DUCT SILENCER
  - (WH 1) WELDING HOOD
- ITEMS NOT SPECIFICALLY SHOWN  
(SEE SPECIFICATIONS SECTION 15812)
- VFD EXHAUST FAN
  - DP TRANSMITTER KIT
  - CONT-C64 CONTROL PANEL (FILTER)
  - LAMP ARC SENSOR KIT AND CONTROLS
  - CONTROL DAMPER WELDING ARM
  - MANUAL DAMPER WELDING ARM
  - 8" CONNECTION FOR WELDING ARM
  - CONTROL BOXES FOR WELDING ARM

- MECHANICAL SHEET NOTES
- 3 VFD FOR EF-1 MOUNT VFD ON WALL. PROVIDE REMOTE SPEED ADJUSTMENT AND SHUTOFF ON HOOD. ALL WIRING SHALL BE RIGID CONDUIT SECURED TO DUCT AND PAINTED SAME AS DUCT.
  - 12 NEW THERMOSTAT. VERIFY EXACT LOCATION IN FIELD WITH EXISTING CONDITIONS. REMOVE EXISTING THERMOSTAT AND INSTALL NEW THERMOSTAT IN PLACE (IF APPLICABLE). NOTE - DO NOT USE EXISTING LOCATION IF HEAT GENERATING SOURCE, IE COMPUTER MONITOR, ETC. IS NEARBY.
  - 21 CONNECT SUPPLY AIR DUCT TO MAKEUP AIR UNIT. TOP HORIZONTAL RECTANGULAR CONNECTION TRANSITION TO ROUND DUCT.
  - 22 CONNECT EXHAUST TO WELDING EXHAUST SYSTEM.
  - 23 DUCT THRU EXTERIOR WALL. PROVIDE RECTANGULAR SHEET METAL TO ALLOW FOR ROUND DUCT TO HAVE RECTANGULAR WALL OPENING. ALL PENETRATIONS OF SHEET METAL WALL TO HAVE SLEEVE, SEE ARCHITECTURAL PLANS FOR DETAILS.
  - 28 NEW GAS FIRED HEATER. NOTE - UNIT TO BE MOUNTED FROM WALL, LOCATE UNIT 10'-12' +/- AFF.
  - 29 NEW 4" DIA. HORIZONTAL GAS FLUE AND 4" DIA. HORIZONTAL INTAKE SECURE FROM WALL, OFFSET AT WALL AND DISCHARGE THRU WALL WITH WALL COMBINATION FITTING.
  - 30 NEW 6" CONCRETE PAD.
  - 37 PROVIDE AVERAGING SENSOR.
  - 40 CONNECT TO FAN WITH 6" FLEXIBLE CONNECTION.
  - 41 PROVIDE 60" X 24" AUTOMATIC DAMPER WITH HOOD 60" WIDE X 24" DEEP WITH 45 DEG. DISCHARGE, MINIMUM 30" DEEP, AND BIRD SCREEN. DAMPER NORMALLY OPEN, CLOSED UPON RECIRCULATION, SEE CONTROL SEQUENCE.
  - 42 DAMPER IN DUCT NORMALLY CLOSED, OPEN UPON RECIRCULATION, SEE CONTROL SEQUENCE.
  - 43 EF-2 VFD MOUNT ON UNISTRUT FRO MCONCRETE PAD. PROVIDE NEMA 4 WEATHERPROOF ENCLOSURE, LOCKABLE, LABEL ENCLOSURE.
  - 45 NEW LOUVER IN EXISTING WALL. GENERAL CONTRACTOR TO PROVIDE SLEEVE FOR MOUNTING LOUVER IN EXISTING SHEET METAL WALL. SEE ARCHITECTURAL PLANS FOR DETAILS.
  - 46 NEW 4" DIA. COMBINATION INTAKE/DISCHARGE THRU WALL.
  - 47 LOCATION OF VFD FOR MUA-1.

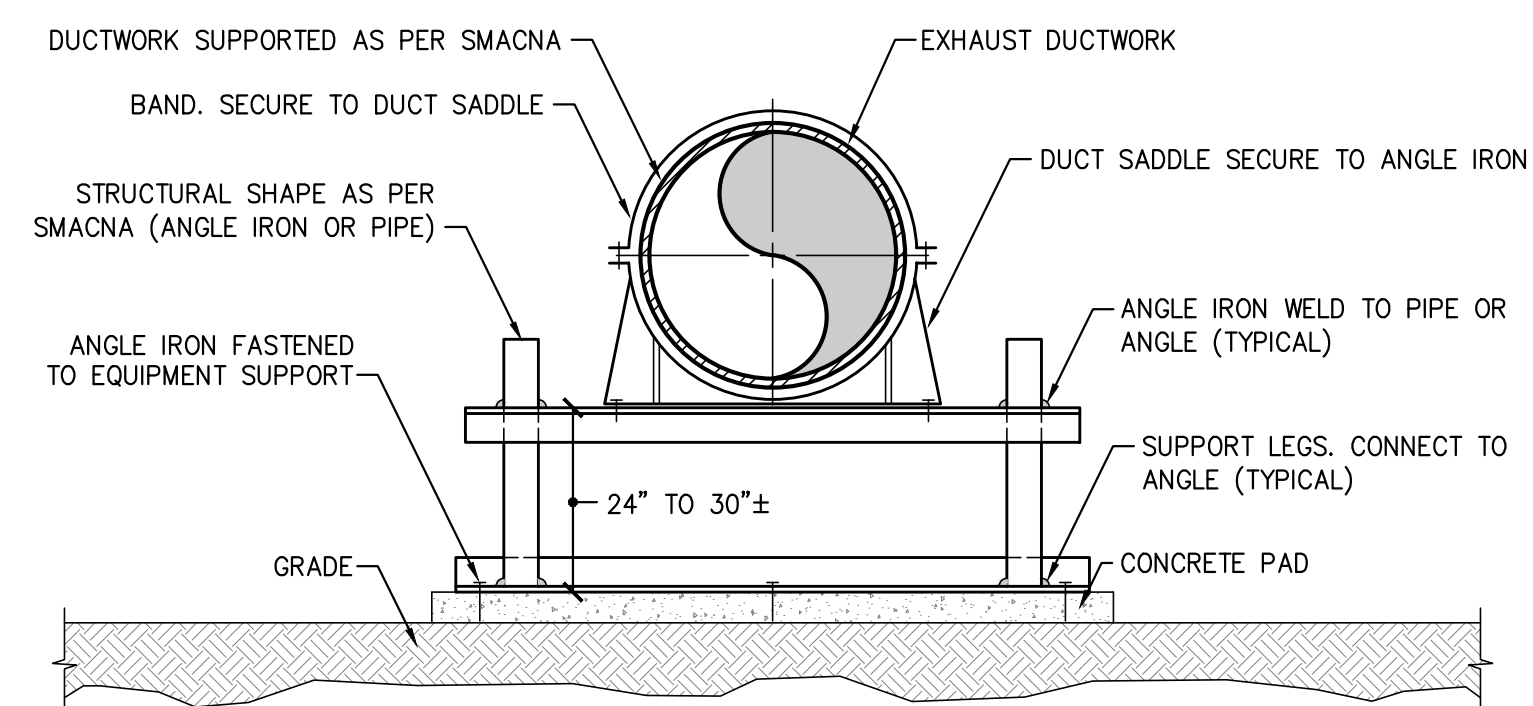
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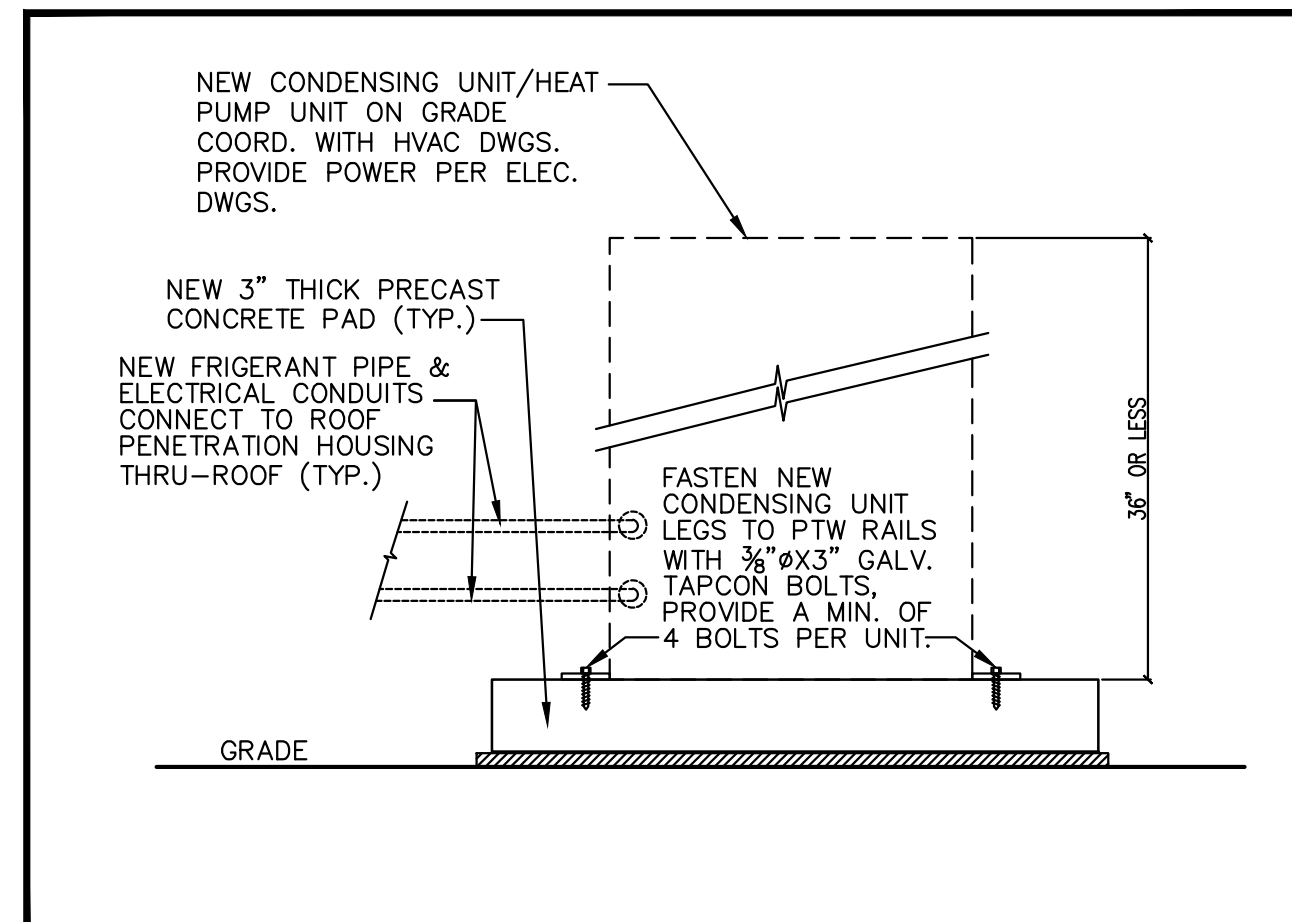
Project No. 19-13  
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Scale:

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PRIOR TO BIDDING, MECHANICAL CONTRACTOR  
TO VISIT SITE PER SPECIFICATION 15010  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.



**DUCT SUPPORT ON GRADE DETAIL**  
SCALE: NO SCALE  
ALL SUPPORT STEEL, GALVANIZED STEEL.



**CONDENSING UNIT ON GRADE DETAIL**  
NTS  
NEW CONDENSING UNIT W/ CONCRETE PAD

**MECHANICAL SHEET NOTES**

- EXISTING TO BE REMOVED. REMOVE ALL APPURTENANCES. CAP ALL FINISHED SURFACES. PATCH EXISTING SURFACES DISTURBED TO MATCH ADJACENT SURFACES.
- EXISTING TO REMAIN, ITEM AS INDICATED. VERIFY ALL CONDITIONS IN FIELD. PROTECT DURING CONSTRUCTION.
- VFD FOR EF-1 MOUNT VFD ON WALL. PROVIDE REMOTE SPEED ADJUSTMENT AND SHUTOFF ON HOOD. ALL WIRING SHALL BE RIGID CONDUIT SECURED TO DUCT AND PAINTED SAME AS DUCT.
- NEW DUCTLESS SPLIT SYSTEM INDOOR UNIT.
- NEW REFRIGERANT AND CONDENSATE PIPE DOWN.
- NOT USED.
- NEW REFRIGERANT PIPE AND CONDENSATE LINE ABOVE EXISTING CEILING. REMOVE AND REPLACE CEILING AND ALL CONSTRUCTION. VERIFY EXACT ROUTE AND LOCATION IN FIELD.
- NEW REFRIGERANT AND CONDENSATE PIPE THRU EXISTING WALL. CONDENSATE LINE DISCHARGE AT GRADE.
- NEW REFRIGERANT AND CONDENSATE PIPE ABOVE CEILING.
- NEW REFRIGERANT PIPE CONNECT TO NEW CONDENSING UNIT PER UNIT MANUFACTURERS' REQUIREMENTS.
- NEW CONDENSING UNIT ON NEW 4\"/>

**DUCTLESS SPLIT SYSTEM A/C SCHEDULE** SYMBOL (DSS) (DCU)

NO.	COOLING CAPTY	HEATING CAPTY	ROOM SERVED	INDOOR UNIT	REMARKS
1	9,000	9,400	OFFICE 08	MSZ-FE09NA WALL MOUNTED	DCU-1 3.5 TON MITSUBISHI MX2-5C42NAHZ
2	9,000	9,400	OFFICE 09	MSZ-FE09NA WALL MOUNTED	
3	9,000	9,400	OFFICE 07	MSZ-FE09NA WALL MOUNTED	
4	18,000	19,000	CLASSRM 10	PLA-A18AA CEILING CASSETTE	
5	12,000	13,600	OFFICE	PLA-A12EA CEILING CASSETTE	DCU-2 1 TON MITSUBISHI PUZ-A12NKA7, PROVIDE EXTENSION & 2-4\"/>

W/ REFRIGERANT PIPE PER MANUFACTURERS REQUIREMENTS INTERFACE W/ CENTRAL CONTROL SYSTEM FOR SCHEDULING

**GAS FIRED UNIT HEATER SCHEDULE** SYMBOL (UH)

NO.	H.P.	INPUT HEATING CAPACITY BTUH	OUTPUT HEATING CAPACITY BTUH	CFM	FLUE INTAKE	REMARKS
1	1/8	75,000	62,800	769	4\"/>	

W/ 4\"/>

**EXHAUST FAN SCHEDULE** SYMBOL (EF) (SF)

NO.	CFM	S.P.	RPM	H.P.	TYPE	REMARKS
1	4000	1.0	1092	1.5	SQUARE CENTRIFUGAL IN-LINE	COOK MODEL# 195 SQI-B W/ VFD & REMOTE SPEED ADJUSTMENT
2						BY OWNER (SEE SPECIFICATIONS)
3	500	0.375	1400	200W	CEILING	COOK MODEL# GC-560 W/ THERMOSTAT
4	340	0.375	1600	119W	CEILING	COOK MODEL# GC-542
5	75	0.375	889	34.2W	CEILING	COOK MODEL# GC-146
6	8200	0.625	720	1.5	SQUARE CENTRIFUGAL IN-LINE	COOK MODEL# SQI 270-B MOTOR ON TOP W/ VFD & SPEED CONTROL

**AIR DEVICE SCHEDULE**

NO.	CD	LID	SR SG	RR RG	ER EG	LAD LMD	WMS	REMARKS
1	6x6		18x32	24x24	12x12	48x38		LMD-1 W/ BDD & WMS
2	9x9			12x12		54x42		LMD-2 W/ BDD & WMS
3	12x12					48x54		LAD-3 W/ MOTORIZED DAMPER & WMS
4						16x16		LAD-4 W/ MOTORIZED DAMPER & DUCT CONNECTION
5						12x12		

CD X - INDICATES NUMBER OF BLOWS  
XXX - INDICATES AMOUNT OF CFM

**WELDING EXHAUST SYSTEM** SYMBOL (WES)

NO.	CFM	FAN HP	REMARKS
1	18,000	-	SEE SPECIFICATIONS SECTION 15812

**DIRECT FIRED MAKEUP AIR UNIT SCHEDULE** SYMBOL (MUA)

NO.	CFM	ESP	H.P.	EAT	LAT	HEAT INPUT MBH	REMARKS
1	13,000	.75	10	10	80	1100	HORIZONTAL, CAMBRIDGE M120

UNIT SHALL BE DIRECT FIRED PAD MOUNT OUTDOORS WITH TOP DISCHARGE. PROVIDE FILTERS, INLET AIR DAMPER, RAIN HOOD (DUAL) MODULATING GAS BURNER, FAN VFD, LOW PRESSURE GAS, DISCHARGE AIR TEMPERATURE CONTROL & ROOM RESET.

**SPLIT SYSTEM AIR CONDITIONER SCHEDULE** SYMBOL (GF) (CU)

NO.	CFM	COOLING CAPACITY MBH	HEATING CAPACITY MBH	OA CFM	REMARKS
1	800	24.0	40.0	200	GF-1 CARRIER MODEL 58MVB040-14 CU-1 CARRIER MODEL 24ANB124

UNIT SHALL BE SPLIT SYSTEM WITH OUTDOOR CONDENSING UNIT, HORIZONTAL MODULATING GAS FURNACE, 3\"/>

**MECHANICAL LEGEND**

A/L	ACOUSTICALLY LINED	—C—	CONDENSATE PIPE
AP	ACCESS PANEL	—HWS—	HOT WATER HEATING SUPPLY (SYSTEM)
ACD	ACCESS DOOR	—HWR—	HOT WATER HEATING RETURN (SYSTEM)
ADR	AUTOMATIC DAMPER	—CHWR—	CHILLED WATER SUPPLY (SYSTEM)
BDD	BACK DRAFT DAMPER	—CHWS—	CHILLED WATER SUPPLY (SYSTEM)
BTJ	BETWEEN THE JOISTS	—CWR—	CONDENSER WATER RETURN
CS	CHILLED WATER SUPPLY	—CWS—	CONDENSER WATER SUPPLY
CR	CHILLED WATER RETURN	—R—	REFRIGERANT PIPE
CD	CEILING DIFFUSER	⊕	GATE VALVE
CU	CONDENSING UNIT	⊕	CHECK VALVE
CUH	CABINET UNIT HEATER	⊕	RELIEF VALVE
DL	DOWN BLOW REGISTER	⊕	CONTROL VALVE
DO	DOOR DOUVER	⊕	AUTOMATIC THREE-WAY VALVE
DN	DOWN	⊕	GLOBE VALVE
DX	DIRECT EXPANSION COIL	⊕	PRESSURE REDUCING VALVE
(E)	EXISTING	⊕	AUTOMATIC TWO-WAY VALVE
EF	EXHAUST FAN	⊕	FLIC OR BALL VALVE
EG	EXHAUST GRILLE	⊕	BALANCING VALVE
ER	EXHAUST REGISTER	⊕	STRAINER
FDR	FIRE DAMPER	⊕	UNION
FVAV	FAN POWERED VAV UNIT	⊕	HEATING THERMOSTAT
GV	GATE VALVE	⊕	HEATING & COOLING THERMOSTAT
HR	HOT WATER HEATING RETURN	⊕	COOLING THERMOSTAT
HS	HOT WATER HEATING SUPPLY	⊕	THERMOMETER
LAD	LOUVER/AUTO DAMPER	⊕	PRESSURE GAUGE W/GAUGE COCK
LBD	LOUVER/BACKDRAFT DAMPER	⊕	AUTOMATIC AIR VENT
LID	LINEAR DIFFUSER	⊕	FLEXIBLE CONNECTION
LMD	LOUVER/MANUAL DAMPER	⊕	NEW CONNECTION TO EXISTING
LVR	LOUVER	⊕	POINT OF DEMOLITION
MUA	MAKEUP AIR UNIT	⊕	DUCT REDUCER
MVD	MANUAL VOLUME DAMPER	⊕	
OAI	OUTSIDE AIR INTAKE	⊕	
RG	RETURN GRILLE	⊕	
RR	RETURN REGISTER	⊕	
SG	SUPPLY GRILLE	⊕	
SF	SUPPLY FAN	⊕	
SFR	SUPPLY REGISTER	⊕	
SDR/FDR	SMOKE/FIRE DAMPER	⊕	
TF	TRANSFER FAN	⊕	
TWJ	THROUGH WEB OF JOIST	⊕	
TYP	TYPICAL (OF QUANTITY)	⊕	
UNO	UNLESS NOTED OTHERWISE	⊕	
VAV	VARIABLE AIR VOLUME TERMINAL UNIT	⊕	
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT	⊕	
WMS	WIRE MESH SCREEN	⊕	

**EXHAUST HOOD SCHEDULE** SYMBOL (WH)

NO.	LENGTH	WIDTH	EXHAUST CFM	SUPPLY CFM	AREA SERVED	REMARKS
1						BY OWNER (SEE SPECIFICATIONS)

**FLEXIBLE DUCT SIZING SCHEDULE**

SIZE	MAXIMUM CFM		REMARKS
	HIGH PRESSURE	LOW PRESSURE	
6\"/>			

FLEX DUCT TO BE PULLED TIGHT AND BANDED, WITH A MAXIMUM OF ONE 90° ELBOW AND A MAXIMUM OF 10'-0\"/>

SPECIFIED ITEMS MAY BE USED MORE THAN ONCE.  
REFER TO FLOOR PLAN FOR QUANTITIES OF EQUIPMENT.

**GARIBOLDI architects**  
A Professional Corporation of Architects and Planners  
713 CREEK ROAD, BELLMAWR, NEW JERSEY 08031 (856) 396-6200

**IRON WORKERS LOCAL 399**  
New Welding Training Center  
26 WEST FLEMING PIKE  
HAMMONTON, NEW JERSEY 08037

**REVISIONS**

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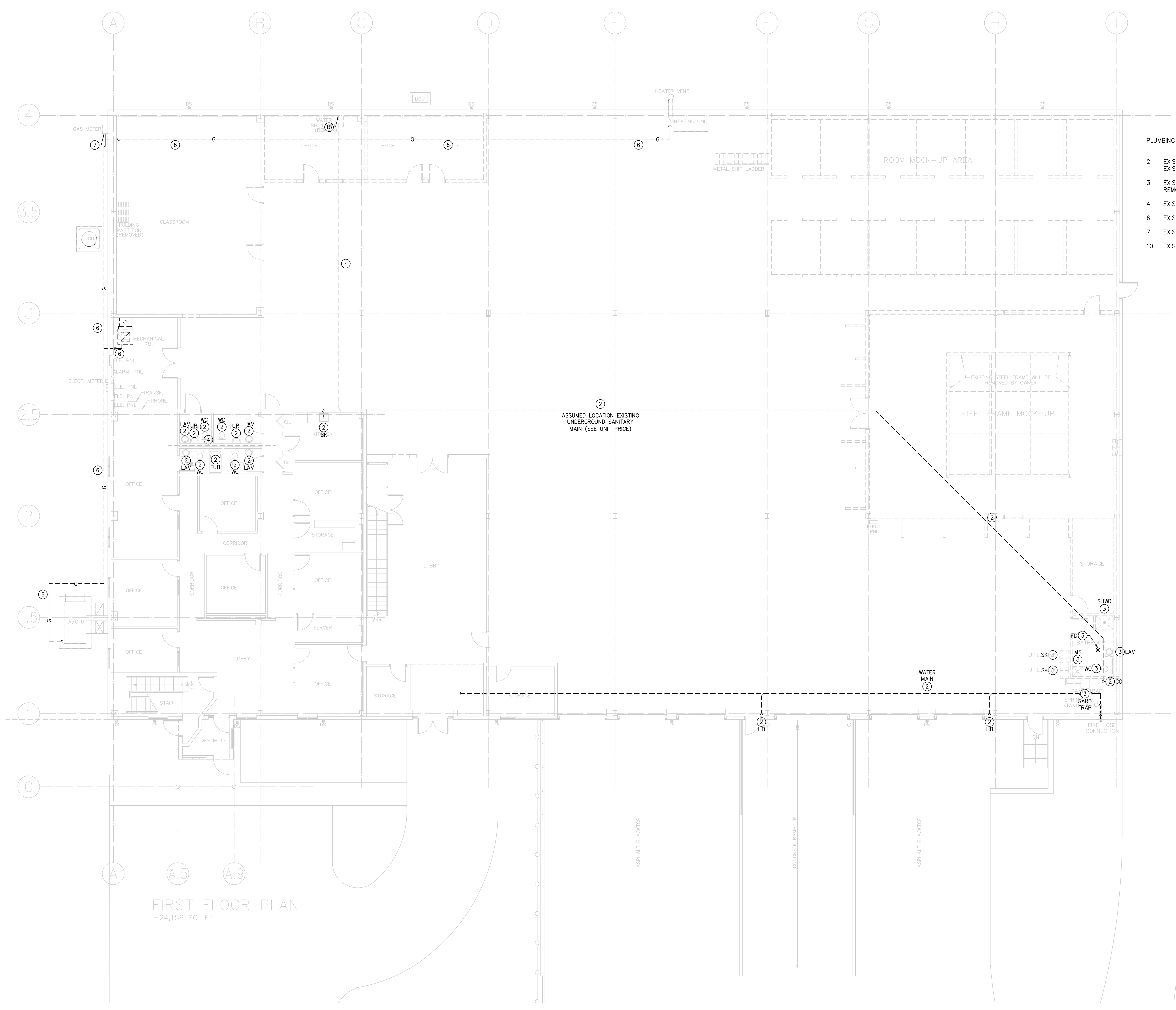
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Scale:

**MECHANICAL SCHEDULES DETAILS & NOTES**  
**M-4**



ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET  
 FOR ALL NOTES REFER TO NOTES ON P-

ALL WORK BY PLUMBING CONTRACTOR U.N.O.  
 ALL WORK NEW U.N.O.  
 ALL WORK BASE BID U.N.O.  
 FOR RISER DIAGRAMS SEE SHEET P-3



**PLUMBING NOTES**

- 2 EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS IN FIELD, ITEM AS INDICATED.
- 3 EXISTING PLUMBING FIXTURE AND ALL PIPE AND APPURTENANCES TO BE REMOVED. VERIFY ALL CONDITIONS IN FIELD.
- 4 EXISTING SANITARY PIPE TO REMAIN.
- 6 EXISTING GAS PIPE TO REMAIN.
- 7 EXISTING GAS METER TO REMAIN.
- 10 EXISTING WATER SHUTOFF VALVE TO REMAIN.

FIRST FLOOR PLAN  
 ±24,158 SQ. FT.

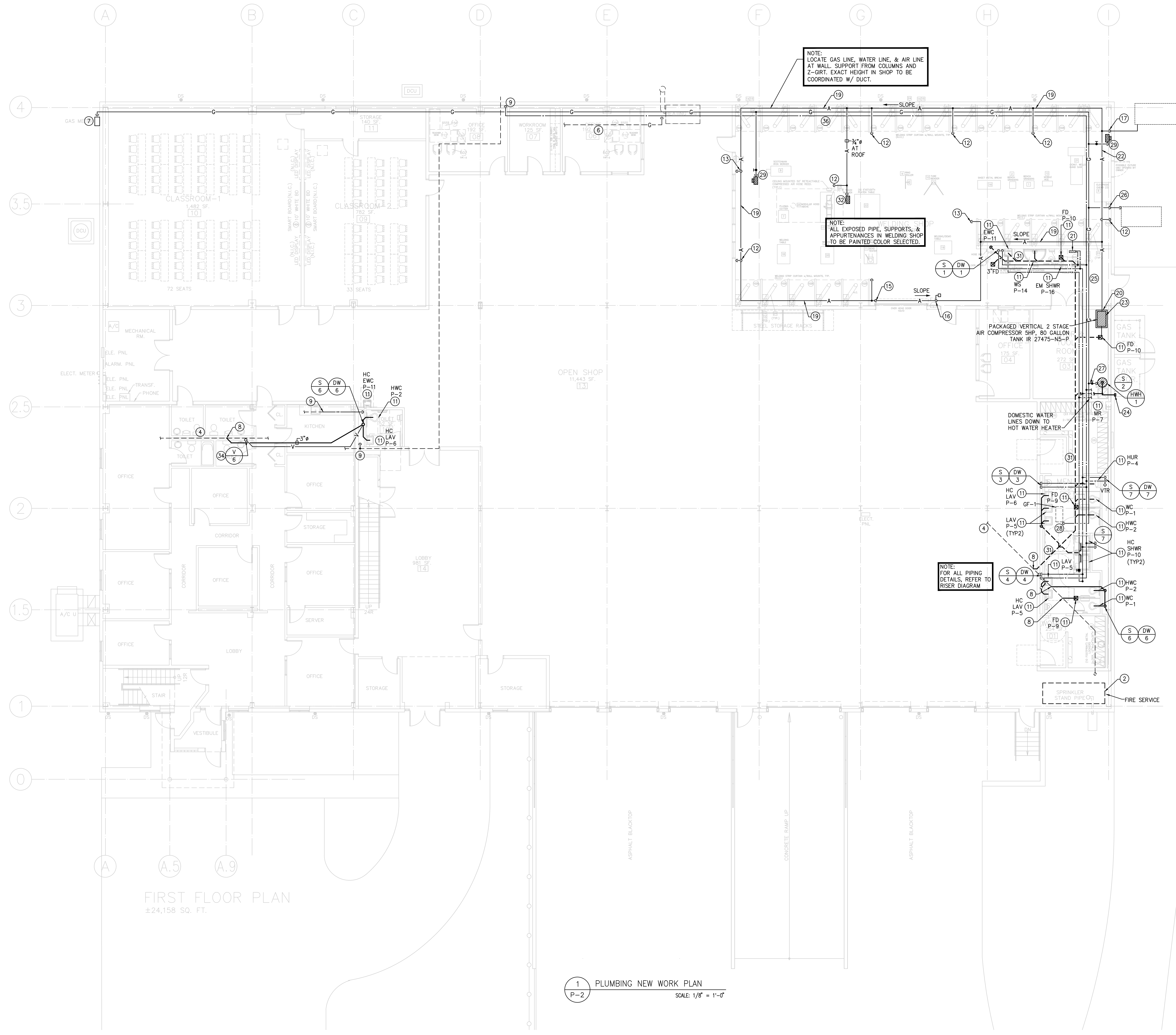
1 PLUMBING DEMOLITION PLAN  
 P-1 SCALE: 1/8" = 1'-0"

**REVISIONS**

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c.	g.

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ALL WORK BY PLUMBING CONTRACTOR U.N.O.  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.  
FOR RISER DIAGRAMS SEE SHEET P-3



- PLUMBING NOTES**
- 2 EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS IN FIELD, ITEM AS INDICATED.
  - 4 EXISTING SANITARY PIPE TO REMAIN.
  - 6 EXISTING GAS PIPE TO REMAIN.
  - 7 EXISTING GAS METER TO REMAIN.
  - 8 REMOVE EXISTING FLOOR SLAB AND CONNECT EXISTING SANITARY LINE TO NEW SANITARY LINE. VERIFY SIZE AND LOCATION IN FIELD.
  - 9 CONNECT NEW DOMESTIC WATER TO EXISTING DOMESTIC WATER PIPE FROM WELL. VERIFY EXISTING PIPE AND REPAIR PIPE AND PROVIDE SHUTOFF VALVES.
  - 11 NEW PLUMBING FIXTURE ITEM AS INDICATED, SEE SPECIFICATIONS.
  - 12 3/4" DIA. COMPRESSED AIR LINE OFF TOP OF MAIN, OFFSET AND DOWN TO COMPRESSED AIR OUTLET ON WALL WITH AUTOMATIC DRAIN SHUTOFF AND QUICK DISCONNECT.
  - 13 3/4" DIA. COMPRESSED AIR LINE OFF TOP OF MAIN, OFFSET AND DOWN TO COMPRESSED AIR OUTLET ON WALL WITH AUTOMATIC DRAIN SHUTOFF AND QUICK DISCONNECT. PROVIDE 35' OF 1/4" PVC COMPRESSED AIR LINE AND GENERAL-DUTY HOSE REEL, SPEEDAIRE 4U236.
  - 15 RISE UP TO ABOVE DOOR.
  - 16 DROP DOWN WITH DRAIN.
  - 17 3/4" DIA. COMPRESSED AIR LINE DOWN AND THRU WALL WITH SHUTOFF AND AUTOMATIC DRAIN INSIDE COMPRESSED AIR LINE OUTSIDE SLOPED TO INDOORS. PROVIDE CONNECTION TO FILTRATION UNIT. SUPPORT PIPE ABOVE GRADE.
  - 19 SUPPORT MAIN FROM STUD WALL. LOCATE ABOVE DUCT CONNECTION.
  - 20 AIR COMPRESSOR, PROVIDE 6" CONCRETE PAD.
  - 21 PROVIDE 1-1/4" DIA. HOT AND COLD WATER TO MIXING VALVE ON WALL AND 1-1/4" DIA. DOWN TO SHOWER.
  - 22 SUPPORT FROM WALL, LOCATE HIGH TO ALLOW FOR FUTURE 10' OVERHEAD DOOR.
  - 23 COMPRESSED AIR LINE DOWN TO AIR COMPRESSOR.
  - 24 3" DIA. PVC INTAKE AND DISCHARGE THRU WALL WITH CONCENTRIC FITTING.
  - 25 NEW GAS MAIN.
  - 26 NEW GAS LINE DOWN AND THRU WALL TO MAKEUP AIR UNIT. CONNECT TO UNIT WITH 6" DIRT LEG AND GAS COCK. CONNECT TO UNIT PER MANUFACTURERS' REQUIREMENTS. SUPPORT PIPE ABOVE GRADE. PAINT PIPE YELLOW.
  - 27 NEW GAS LINE DOWN TO HOT WATER HEATER WITH 6" DIRT LEG AND GAS COCK.
  - 28 NEW GAS LINE DOWN TO GAS FURNACE WITH 6" DIRT LEG AND GAS COCK.
  - 29 NEW GAS LINE DOWN TO UNIT HEATER WITH 6" DIRT LEG AND GAS COCK.
  - 31 NEW SANITARY LINE BELOW FLOOR.
  - 32 3/4" COMPRESSED AIR LINE UP TO ROOF AND DOWN TO HOSE REEL. LOCATE HOSE REEL AT 10' +/- AFF. SUPPORT FROM ROOF. PAINT ALL EXPOSED PIPE.
  - 34 CONNECT NEW VENT TO EXISTING VENT.
  - 36 NEW DOMESTIC WATER PIPE SUPPORT FROM EXISTING WALL. PAINT ALL EXPOSED PIPE COLOR SELECTED. COORDINATE PIPE WITH DUCT IN SHOP AREA.

FIRST FLOOR PLAN  
±24,158 SQ. FT.

1 PLUMBING NEW WORK PLAN  
P-2 SCALE: 1/8" = 1'-0"

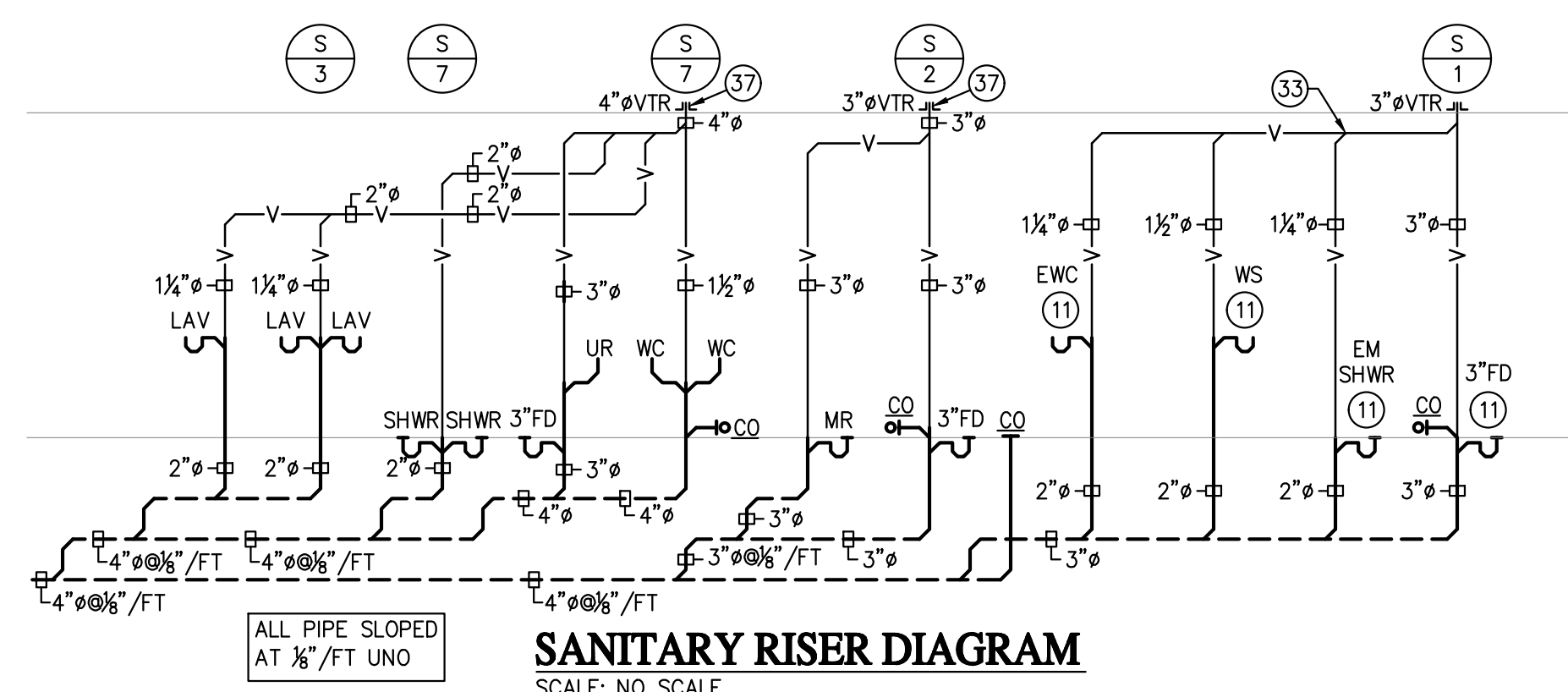
**REVISIONS**

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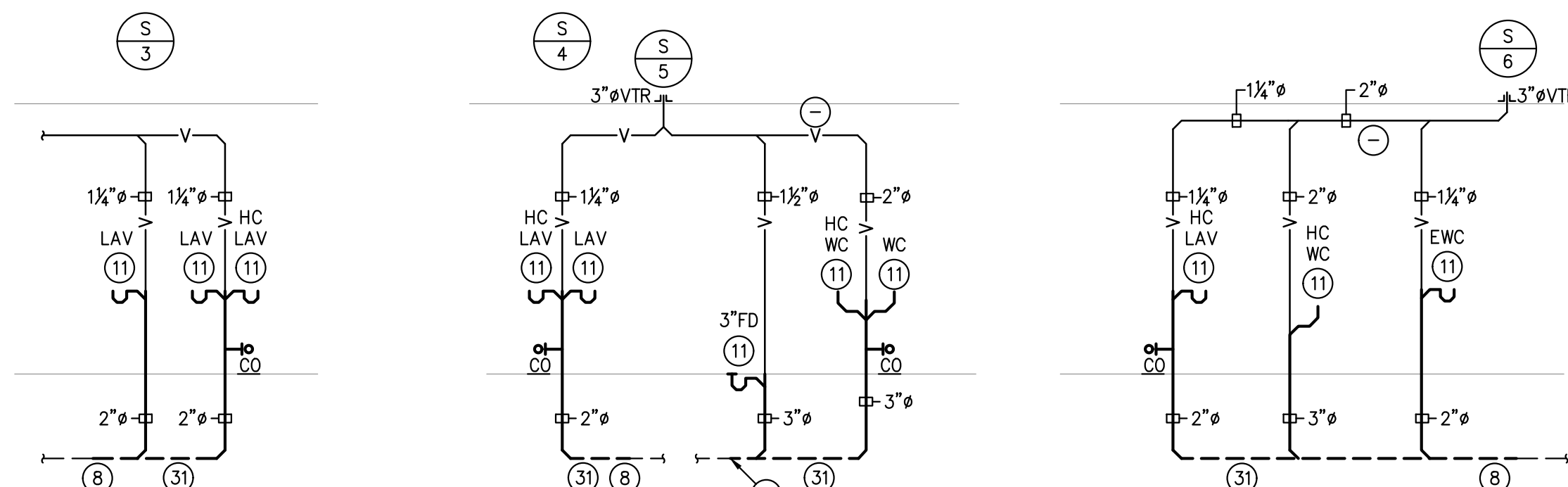
Project No. 19-13  
Date: 06-04-19  
Scale:

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET  
FOR ALL NOTES REFER TO NOTES ON P-

ALL WORK BY PLUMBING CONTRACTOR U.N.O.  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.  
FOR RISER DIAGRAMS SEE SHEET P-3



**SANITARY RISER DIAGRAM**  
SCALE: NO SCALE



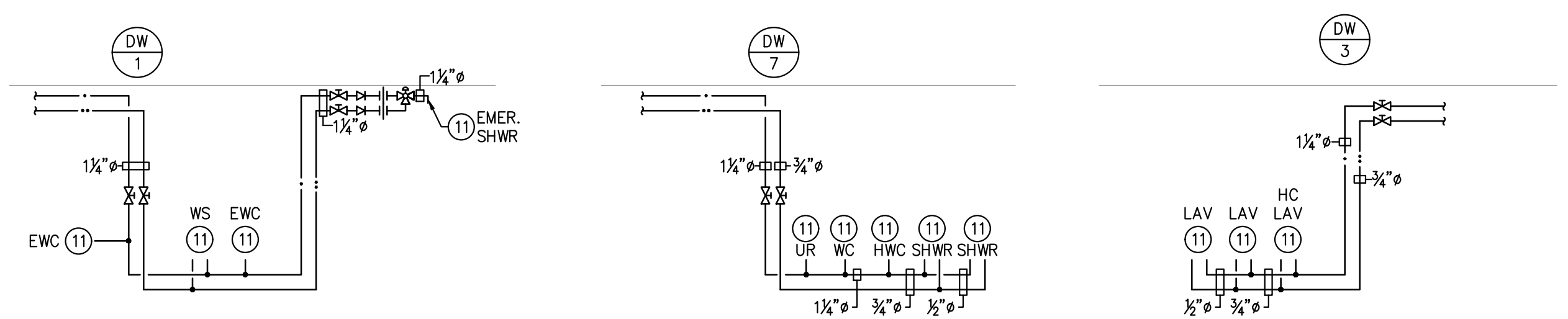
**SANITARY RISER DIAGRAM**  
SCALE: NO SCALE

**SANITARY RISER DIAGRAM**  
SCALE: NO SCALE

**SANITARY RISER DIAGRAM**  
SCALE: NO SCALE

PLUMBING LEGEND	
3CS	(3) COMPARTMENT SINK
ACD	ACCESS DOOR
AD	AREA DRAIN
BT	BATHTUB
CD	CLEANOUT
DC	DENTAL CHAIR
DN	DOWN
DF	DRINKING FOUNTAIN
DSW	DISHWASHER
DSHWR	DISHWASHER
EWC	ELECTRIC WATER COOLER
FH	FUME HOOD
FPS	FOOD PREP SINK
FS	FLOOR SINK
GS	GREASE INTERCEPTOR
HOLS	HANDICAPPED LAB STATION/SINK
HD	HUB DRAIN
HS	HAND SINK
HTUB	HYDRO THERAPY TUB
HWS	HAIR WASH SINK
IS	INSTRUCTORS TABLE/SINK
LAV	LAVATORY
LS	LAB STATION/SINK
MR	MOP RECEPTOR
MR	MOP RECEPTACLE
MH	MANHOLE
MV	MIXING VALVE
OI	OIL INTERCEPTOR
PEDSK	PEDICURE SINK
PS	PREP ROOM SINK
RWC	RAINWATER CONDUCTOR
SHWR	SHOWER
SI	SAND INTERCEPTOR
STK	STACK
SS	SERVICE SINK
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT TO ROOF
WC	WATER CLOSET
WS	WASH STATION

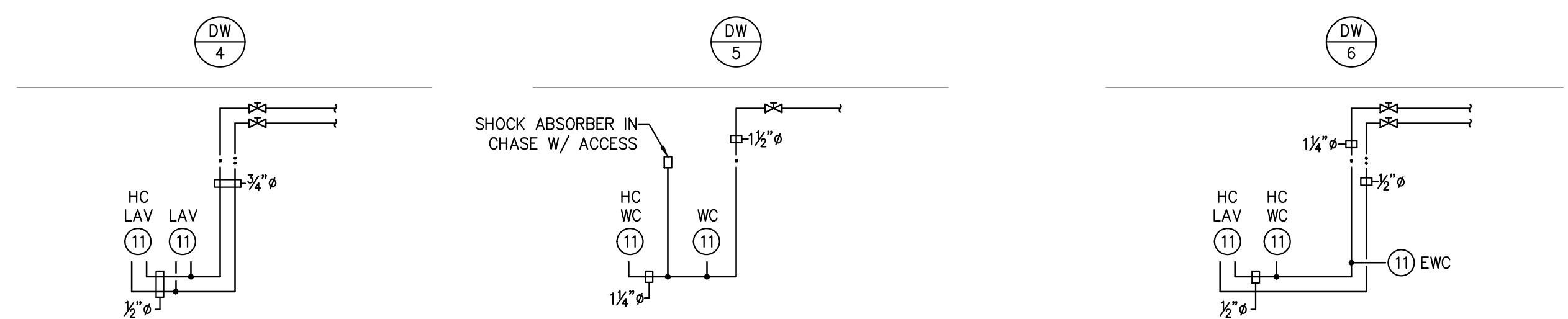
PLUMBING FIXTURE CONNECTION SCHEDULE							
FIXTURE TYPE	ABBREV	FIXTURE UNIT VALUE	CONNECTION SIZES			REMARKS	
			(TRAP) SAN	VENT	HW		CW
WATER CLOSET	WC	6	4	2	-	1 1/2"	FLUSH VALVE
URINAL	UR	4	3	1 1/2	-	1	
LAVATORY	LAV	1	1 1/2	1 1/2	1/2	1/2	
ELECTRIC WATER COOLER	EWC	1/2	1 1/2	1 1/2	-	1/2	
SINK	SK	2	1 1/2	1 1/2	1/2	1/2	
FLOOR DRAIN	FD	4	4	2	-	-	DEEP SEAL TRAP W/ QUAD SEAL
EM. SHOWER	ES	-	-	-	-	1 1/2"	
SHOWER	SHWR	2	2	2	1/2	1/2	



**DOMESTIC WATER PIPING DETAIL**  
NO SCALE

**DOMESTIC WATER PIPING DETAIL**  
NO SCALE

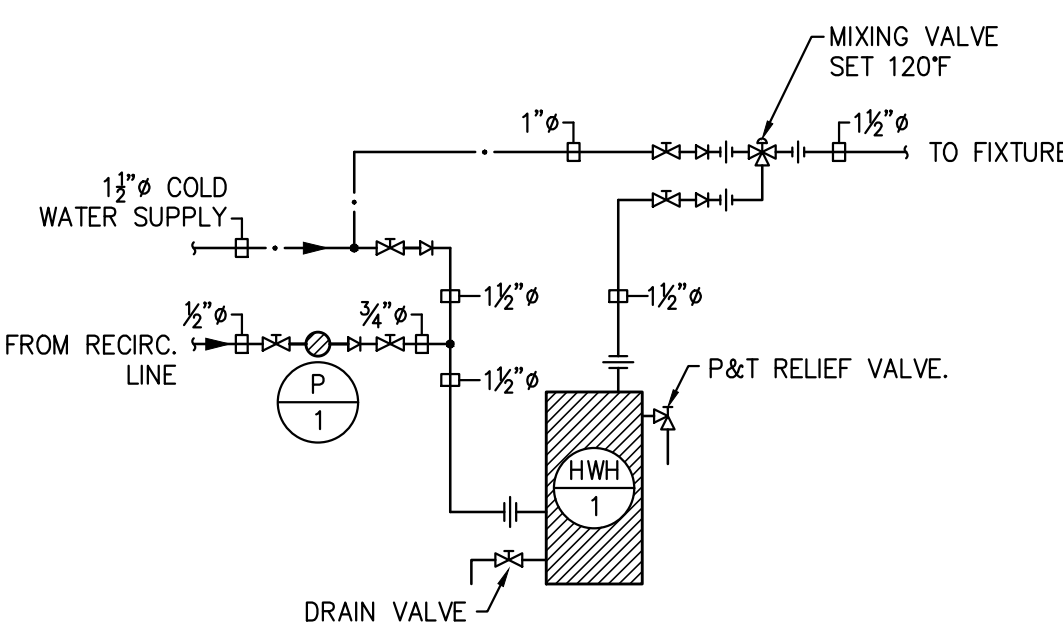
**DOMESTIC WATER PIPING DETAIL**  
NO SCALE



**DOMESTIC WATER PIPING DETAIL**  
NO SCALE

**DOMESTIC WATER PIPING DETAIL**  
NO SCALE

**DOMESTIC WATER PIPING DETAIL**  
NO SCALE

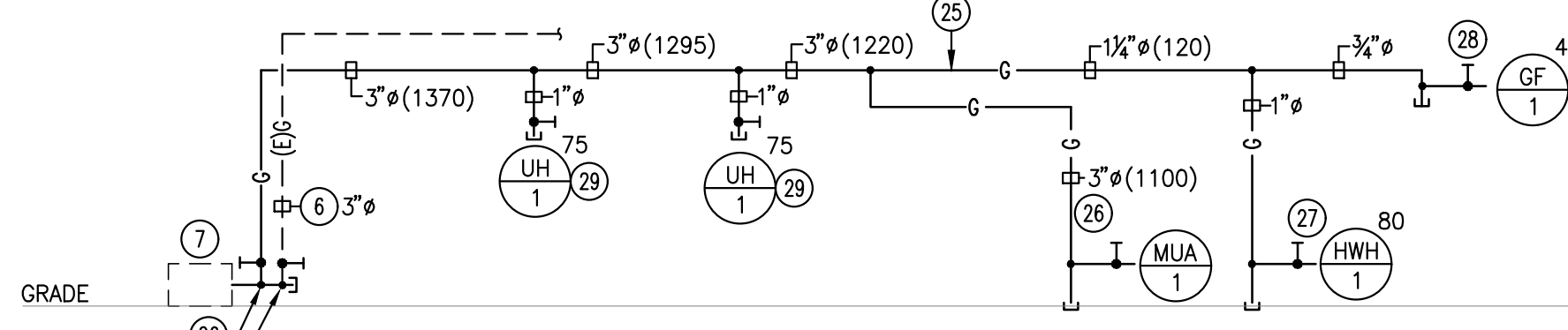


**DOMESTIC HOT WATER HEATER PIPING DETAIL**  
SCALE: NO SCALE

- NEW GAS FIRED DOMESTIC HOT WATER HEATER, BRADFORD WHITE LG2PDV7SH803N, 75 GALLON STORAGE, 80,000 BTU/HR INPUT W/ 3/4" PVC VENT & 3" INTAKE, POWER EXHAUST & CONCENTRIC VENT KIT, P&T RELIEF VALVE.
- DOMESTIC HOT WATER RECIRCULATION PUMP, B&G 1/2 HP, W/ AQUASTAT & TIMER

**SIZING CALCULATION FOR EMERGENCY SHOWER:**  
DOMESTIC HOT WATER HEATER SIZE BASED ON EMERGENCY SHOWER @ 150GPM & 20 MINUTES = 300 GALLONS OF WATER, MAINTAIN 120°F; WATER IN TANK & BLEND 120°F WATER & 60°F WATER TO PROVIDE 80°F TEPID WATER TO SHOWER. HOT WATER HEATER HAS 100 GALLON RECOVERY RATE FIRST HOUR.

**CALCULATION FOR WATER VOLUME:**  
2" CW LINE 0.18 GALS/FT x 180FT = 33 GALLONS  
EXISTING WELL ASSUMED FLOW: 15 GPM x 15 = 225 GALLONS  
TOTAL: 258 GALLONS  
WATER HEATER STORAGE: 75 GALLONS  
TOTAL: 333 GALLONS

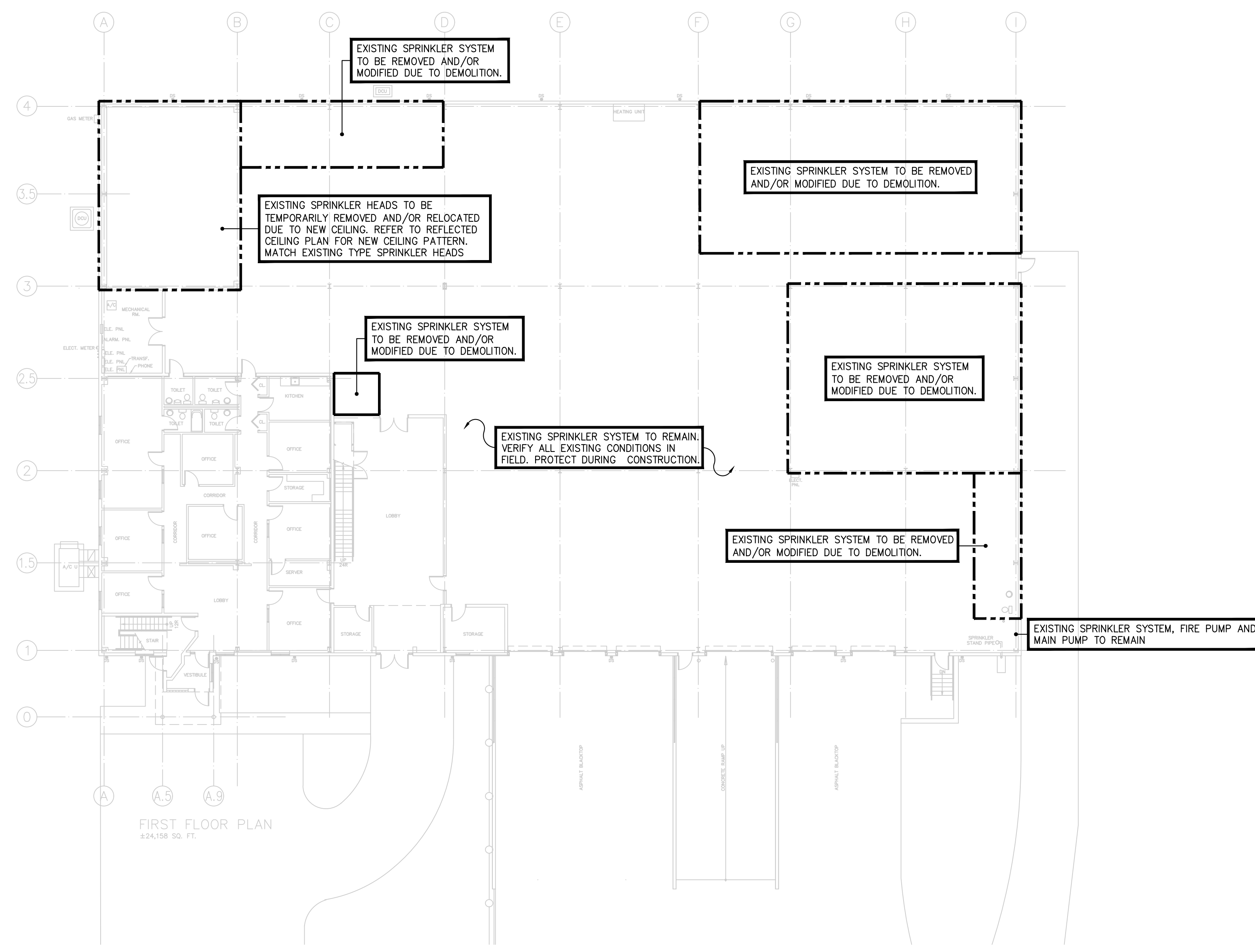


**GAS PIPING DIAGRAM**  
NTS

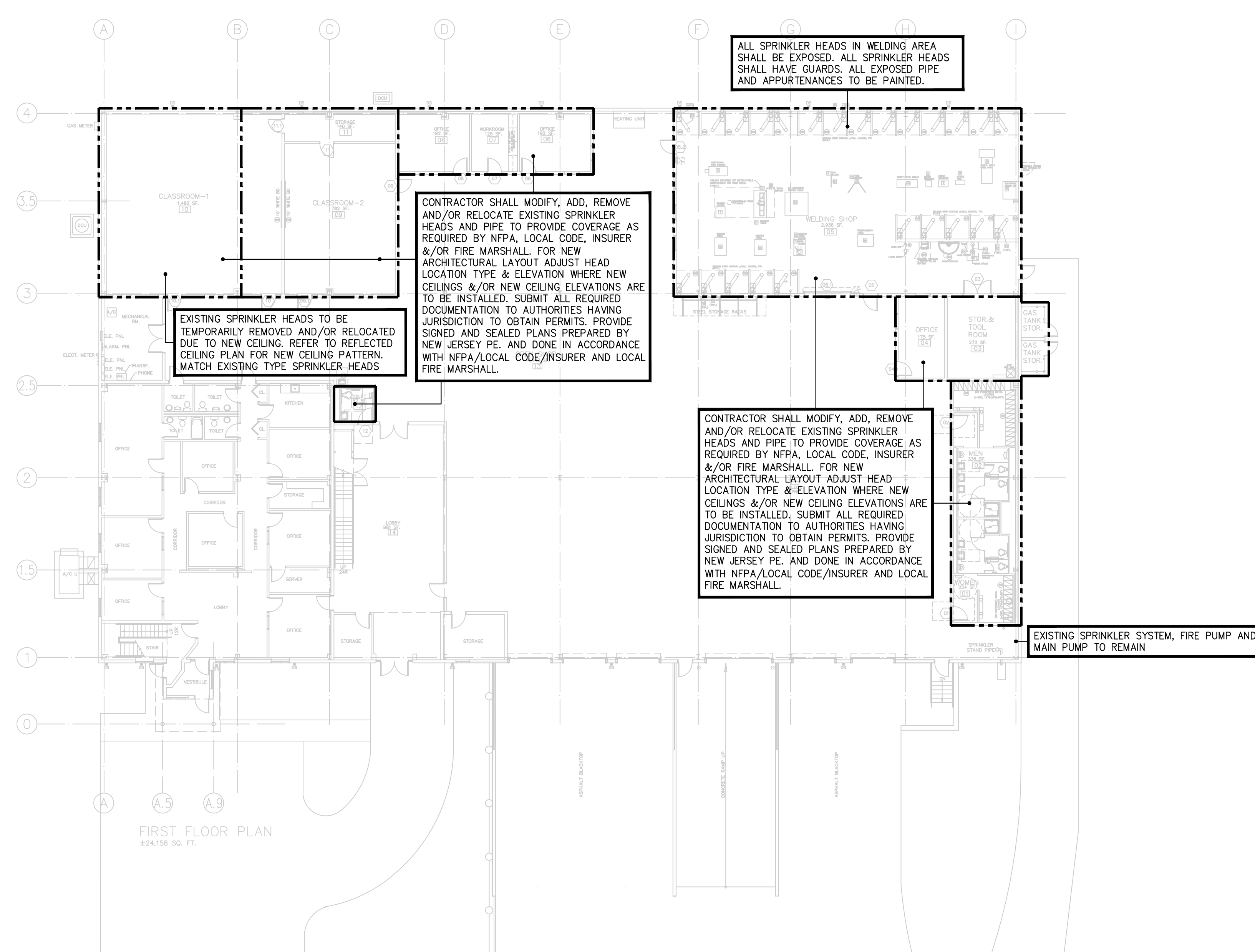
GAS PIPE SIZE BASED ON INITIAL LOW GAS PRESSURE AT 7±W.C.  
ALL PIPE BASED ON 6"W.C. REQUIRED PRESSURE AND 300 LF.  
TOTAL DEVELOPED LENGTH AND PRESSURE DROP OF .50"

- PLUMBING NOTES
- EXISTING TO BE REMOVED, ITEM AS INDICATED. REMOVE ALL SUPPORTS, APPURTENANCES, PIPE AND CONTROLS. REMOVE ALL PIPE TO POINT OF CONNECTION TO MAIN AND CAP MAIN OR TO BEHIND FINISHED SURFACES. PATCH AND RESTORE ALL EXISTING SURFACES TO MATCH EXISTING. VERIFY ALL CONDITIONS IN FIELD.
  - EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS IN FIELD, ITEM AS INDICATED.
  - EXISTING PLUMBING FIXTURE AND ALL PIPE AND APPURTENANCES TO BE REMOVED. VERIFY ALL CONDITIONS IN FIELD.
  - EXISTING SANITARY PIPE TO REMAIN.
  - REMOVE EXISTING DOMESTIC WATER PIPE.
  - EXISTING GAS PIPE TO REMAIN.
  - EXISTING GAS METER TO REMAIN.
  - REMOVE EXISTING FLOOR SLAB AND CONNECT EXISTING SANITARY LINE TO NEW SANITARY LINE. VERIFY SIZE AND LOCATION IN FIELD.
  - CONNECT NEW DOMESTIC WATER TO EXISTING DOMESTIC WATER PIPE FROM WELL. VERIFY EXISTING PIPE AND REPAIR PIPE AND PROVIDE SHUTOFF VALVES.
  - EXISTING WATER SHUTOFF VALVE TO REMAIN.
  - NEW PLUMBING FIXTURE ITEM AS INDICATED, SEE SPECIFICATIONS.
  - 3/4" DIA. COMPRESSED AIR LINE OFF TOP OF MAIN, OFFSET AND DOWN TO COMPRESSED AIR OUTLET ON WALL WITH AUTOMATIC DRAIN SHUTOFF AND QUICK DISCONNECT.
  - 3/4" DIA. COMPRESSED AIR LINE OFF TOP OF MAIN, OFFSET AND DOWN TO COMPRESSED AIR OUTLET ON WALL WITH AUTOMATIC DRAIN SHUTOFF AND QUICK DISCONNECT. PROVIDE 35' OF 1/4" PVC COMPRESSED AIR LINE AND GENERAL-DUTY HOSE REEL; SPEEDAIRE 4U236.
  - PROVIDE AUTOMATIC DRIP ASSEMBLY WITH DRAIN AT LOW POINT, SLOPE ALL MAINS TO THIS POINT.
  - RISE UP TO ABOVE DOOR.
  - DROP DOWN WITH DRAIN.
  - 3/4" DIA. COMPRESSED AIR LINE DOWN AND THRU WALL WITH SHUTOFF AND AUTOMATIC DRAIN INSIDE COMPRESSED AIR LINE OUTSIDE SLOPED TO INDORS. PROVIDE CONNECTION TO FILTRATION UNIT. SUPPORT PIPE ABOVE GRADE.
  - SUPPORT MAIN FROM WALL.
  - SUPPORT MAIN FROM STUD WALL. LOCATE ABOVE DUCT CONNECTION.
  - AIR COMPRESSOR, PROVIDE 6" CONCRETE PAD.
  - PROVIDE 1-1/4" DIA. HOT AND COLD WATER TO MIXING VALVE ON WALL AND 1-1/4" DIA. DOWN TO SHOWER.
  - SUPPORT FROM WALL, LOCATE HIGH TO ALLOW FOR FUTURE 10' OVERHEAD DOOR.
  - COMPRESSED AIR LINE DOWN TO AIR COMPRESSOR.
  - 3" DIA. PVC INTAKE AND DISCHARGE THRU WALL WITH CONCENTRIC FITTING.
  - NEW GAS MAIN.
  - NEW GAS LINE DOWN AND THRU WALL TO MAKEUP AIR UNIT. CONNECT TO UNIT WITH 6" DIRT LEG AND GAS COCK. CONNECT TO UNIT PER MANUFACTURERS' REQUIREMENTS. SUPPORT PIPE ABOVE GRADE. PAINT PIPE YELLOW.
  - NEW GAS LINE DOWN TO HOT WATER HEATER WITH 6" DIRT LEG AND GAS COCK.
  - NEW GAS LINE DOWN TO GAS FURNACE WITH 6" DIRT LEG AND GAS COCK.
  - NEW GAS LINE DOWN TO UNIT HEATER WITH 6" DIRT LEG AND GAS COCK.
  - CONNECT NEW GAS PIPE TO EXISTING GAS METER. REMOVE EXISTING DISCHARGE AND PROVIDE NEW 3" DIA. DISCHARGE HEADER. PROVIDE NEW GAS COCK IN 3" DIA. LINE AND CONNECT TO NEW HEADER AND CONNECT NEW GAS TO HEADER WITH GAS COCK.
  - NEW SANITARY LINE BELOW FLOOR.
  - 3/4" COMPRESSED AIR LINE UP TO ROOF AND DOWN TO HOSE REEL. LOCATE HOSE REEL AT 10' +/- AFF. SUPPORT FROM ROOF. PAINT ALL EXPOSED PIPE.
  - OFFSET NEW VENT AT LOW WALL AND EXTEND TO EXISTING EXTERIOR WALL AND THRU ROOF. ALL VENT PIPE EXPOSED PAINTED COLOR SELECTED.
  - CONNECT NEW VENT TO EXISTING VENT.
  - DOMESTIC WATER LINES LOCATE TIGHT AT EXTERIOR WALL AND DOWN TO LOWER WALL. ALL EXPOSED PIPE PAINTED COLOR SELECTED.
  - NEW DOMESTIC WATER PIPE SUPPORT FROM EXISTING WALL. PAINT ALL EXPOSED PIPE COLOR SELECTED. COORDINATE PIPE WITH DUCT IN SHOP AREA.
  - NEW VENT UP AND THRU ROOF. SUPPORT FROM WALL AT COLUMNS OR AT Z-GIRT.

ALL WORK BY FIRE PROTECTION CONTRACTOR U.N.O.  
ALL WORK NEW U.N.O.  
ALL WORK BASE BID U.N.O.



1 FIRE PROTECTION DEMO WORK PLAN  
FP-1 SCALE: 1/16" = 1'-0"



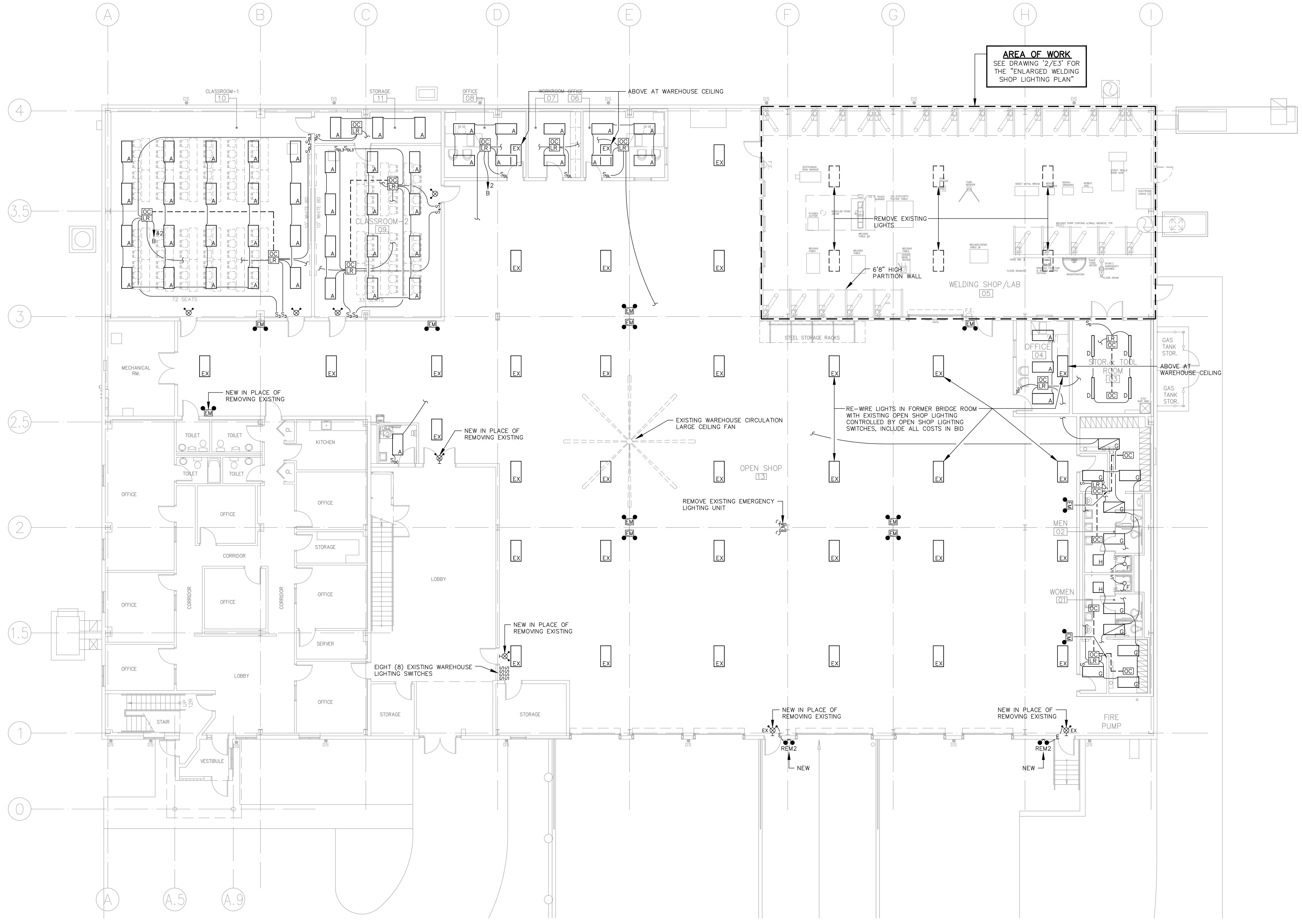
2 FIRE PROTECTION NEW WORK PLAN  
FP-1 SCALE: 1/16" = 1'-0"

REVISIONS

a.	e.
b.	f.
c.	g.

Project No. 19-13  
Date: 06-04-19  
Scale:

**FIRE PROTECTION NEW & DEMO WORK PLANS**  
**FP-1**



**1 FIRST FLOOR LIGHTING PLAN**  
 E1

0 4 8 24  
 GRAPHIC SCALE (FEET)

**IRON WORKERS LOCAL 399**  
**New Welding Training Center**  
 26 WEST FLEMING PIKE  
 HAMMONTON, NEW JERSEY 08037

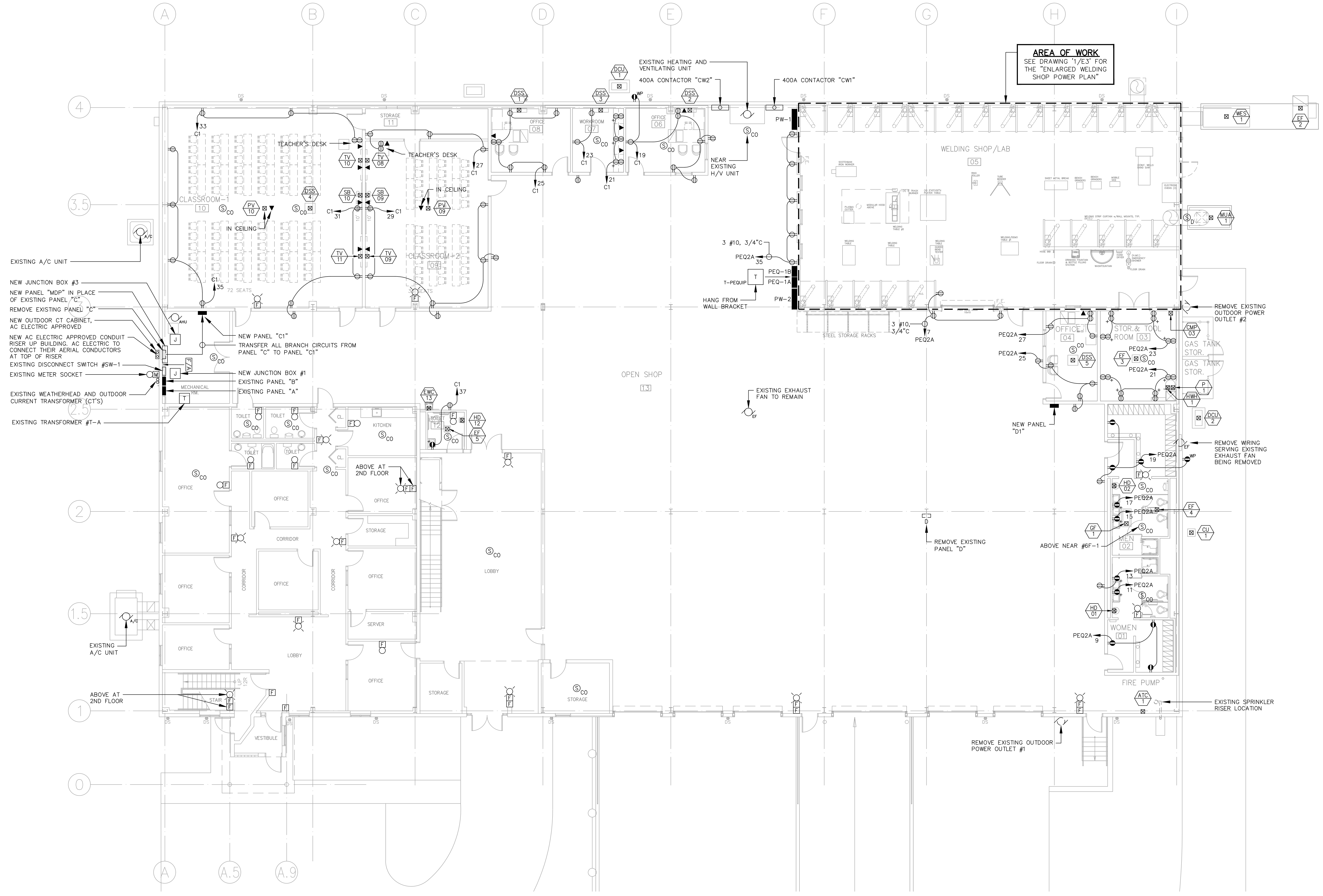
REVISIONS	
a.	e.
b.	f.
c.	g.

Project No. 19-13  
 Date: 06-25-19  
 Scale: AS NOTED

**FIRST FLOOR LIGHTING PLAN**

**E1**

UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN SHALL BE NEW AND SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR



- EXISTING A/C UNIT
- NEW JUNCTION BOX #3
- NEW PANEL "MDR" IN PLACE OF EXISTING PANEL "C"
- REMOVE EXISTING PANEL "C"
- NEW OUTDOOR CT CABINET, AC ELECTRIC APPROVED
- NEW AC ELECTRIC APPROVED CONDUIT RISER UP BUILDING, AC ELECTRIC TO CONNECT THEIR AERIAL CONDUCTORS AT TOP OF RISER
- EXISTING DISCONNECT SWITCH #SW-1
- EXISTING METER SOCKET
- EXISTING WEATHERHEAD AND OUTDOOR CURRENT TRANSFORMER (CT'S)
- EXISTING TRANSFORMER #T-A
- NEW JUNCTION BOX #1
- EXISTING PANEL "B"
- EXISTING PANEL "A"
- TRANSFER ALL BRANCH CIRCUITS FROM PANEL "C" TO PANEL "C1"
- NEW AC ELECTRIC APPROVED CONDUIT RISER UP BUILDING, AC ELECTRIC TO CONNECT THEIR AERIAL CONDUCTORS AT TOP OF RISER
- EXISTING DISCONNECT SWITCH #SW-1
- EXISTING METER SOCKET
- EXISTING WEATHERHEAD AND OUTDOOR CURRENT TRANSFORMER (CT'S)
- EXISTING TRANSFORMER #T-A

**1 FIRST FLOOR POWER PLAN**  
**E2**



NOTE  
 1. UNLESS NOTED OTHERWISE, ALL WIRING SHALL BE #10 MINIMUM

UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN SHALL BE NEW AND SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR

ISSUED FOR SELECT GENERAL CONTRACTOR BID: 06-25-2019

**IRON WORKERS LOCAL 399**  
**New Welding Training Center**  
 26 WEST FLEMING PIKE  
 HAMMONTON, NEW JERSEY 08037

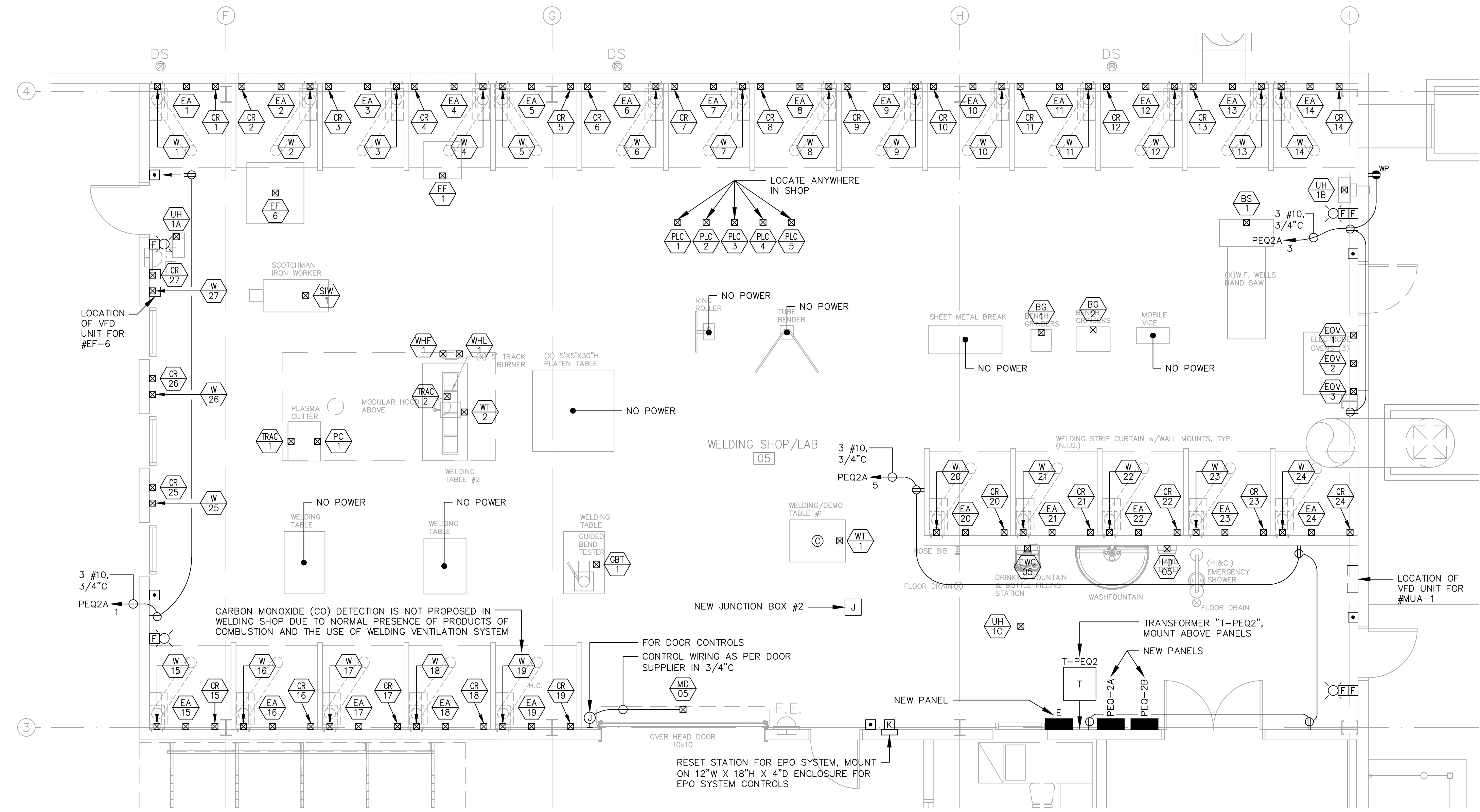
REVISIONS	
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Project No. 19-13  
 Date: 06-25-19  
 Scale: AS NOTED

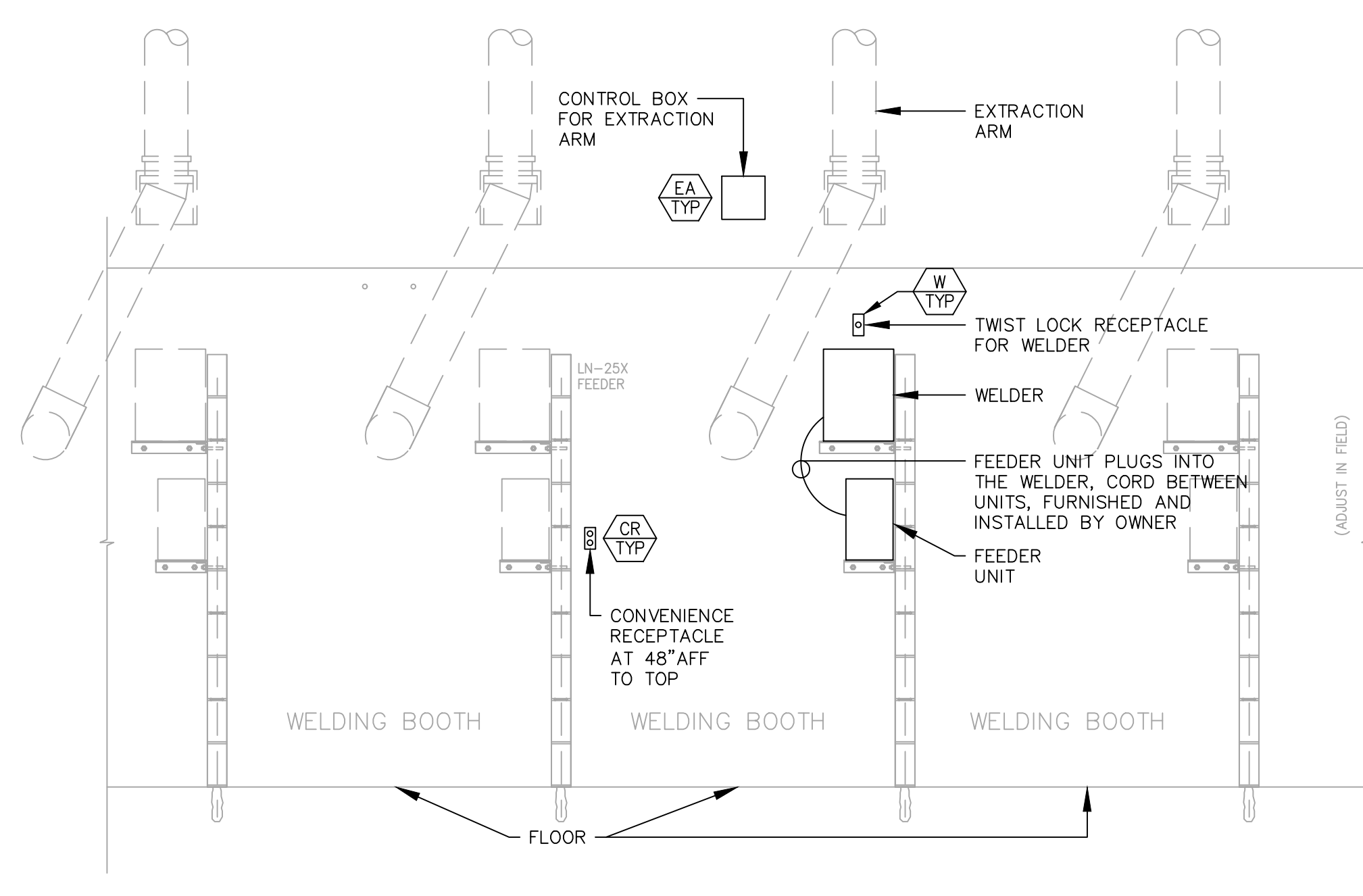
**FIRST FLOOR POWER PLAN**

**E2**

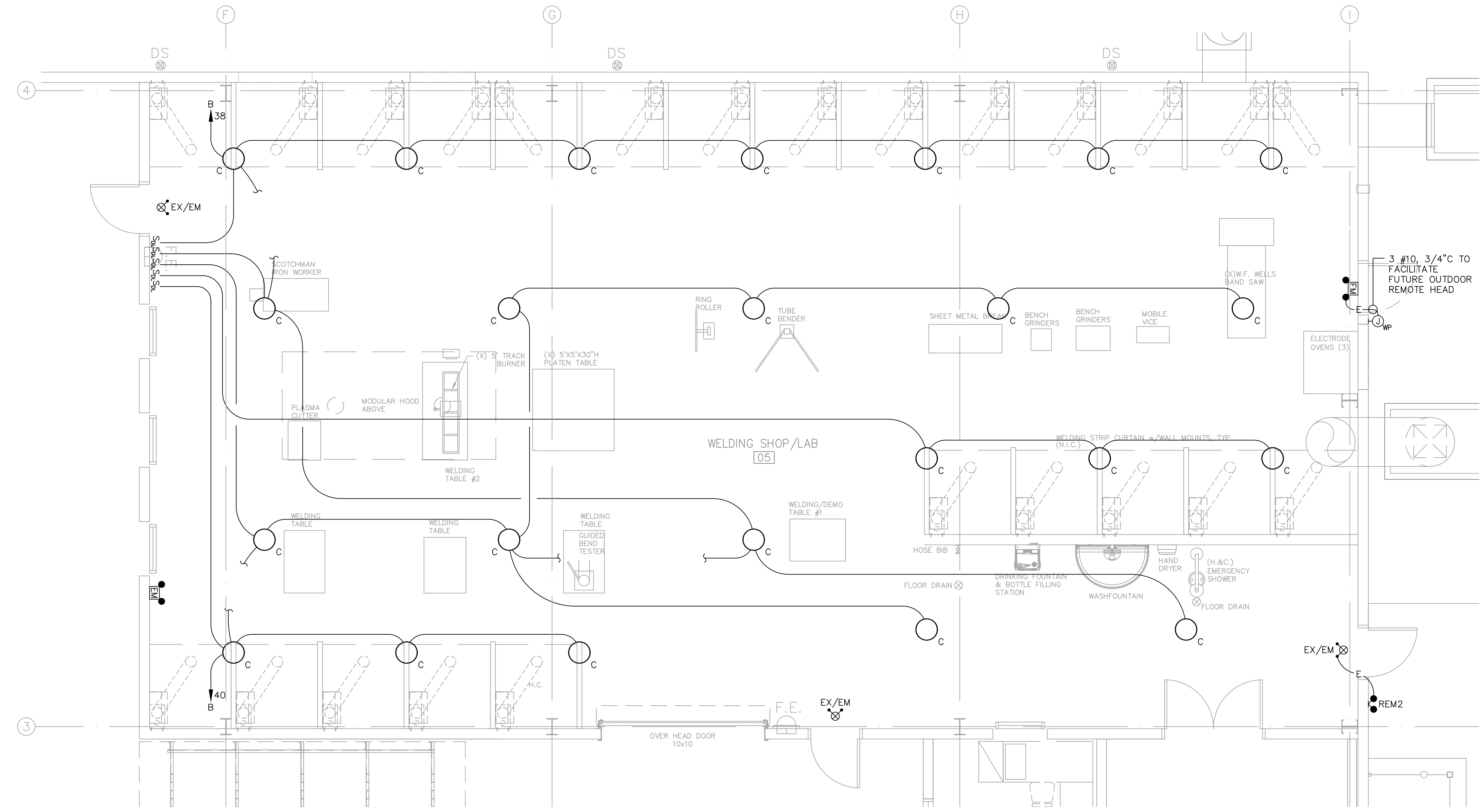
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**1 ENLARGED WELDING SHOP POWER PLAN**  
 E3  
 GRAPHIC SCALE (FEET)



**3 ELEVATION - TYPICAL WELDING BOOTH**  
 E3  
 SCALE: 1/2" = 1'0"  
 INCLUDE COSTS IN BID TO MOCK-UP ONE TYPICAL WELDING BOOTH, OBTAIN WRITTEN APPROVAL FROM OWNER PRIOR TO WIRING ALL OF THE BOOTHS



**2 ENLARGED WELDING SHOP LIGHTING PLAN**  
 E3  
 GRAPHIC SCALE (FEET)

REVISIONS	
a.	e.
b.	f.
c.	g.

Project No. 19-13  
 Date: 06-25-19  
 Scale: AS NOTED

**ENLARGED WELDING SHOP ELECTRICAL PLANS**  
**E3**

UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN SHALL BE NEW AND SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR

FEEDER TABLE (600 V AND LESS)			
FEEDER DESIGNATION (3-WIRE)	FEEDER (THREE-WIRE)	FEEDER DESIGNATION (4-WIRE)	FEEDER (FOUR-WIRE)
20A-3W	4 #12 3/4" C	20A-4W	5 #12 3/4" C
30A-3W	4 #10 3/4" C	30A-4W	5 #10 3/4" C
50A-3W	3 #8, 1 #10G 1" C	50A-4W	4 #8, 1 #10G 1" C
60A-3W	3 #8, 1 #10G 1" C	60A-4W	4 #8, 1 #10G 1.25" C
80A-3W	3 #8, 1 #8G 1.25" C	80A-4W	4 #8, 1 #8G 1.25" C
90A-3W	3 #8, 1 #8G 1.25" C	90A-4W	4 #8, 1 #8G 1.5" C
100A-3W	3 #2, 1 #8G 1.25" C	100A-4W	4 #2, 1 #8G 1.5" C
125A-3W	3 #1, 1 #8G 1.5" C	125A-4W	4 #1, 1 #8G 2" C
150A-3W	3 #1, 1 #8G 2" C	150A-4W	4 #1, 1 #8G 2" C
175A-3W	3 #2, 1 #8G 2" C	175A-4W	4 #2, 1 #8G 2" C
200A-3W	3 #3, 1 #8G 2" C	200A-4W	4 #3, 1 #8G 2.5" C
225A-3W	3 #4, 1 #8G 2" C	225A-4W	4 #4, 1 #8G 2.5" C
250A-3W	3 #250MCM 1 #4, 2 1/2" C	250A-4W	4 #250MCM 1 #4, 3" C
300A-3W	3 #350MCM 1 #4, 3" C	300A-4W	4 #350MCM 1 #4, 3 1/2" C
350A-3W	3 #500MCM 1 #2, 3" C	350A-4W	4 #500MCM 1 #2, 3" C
400A-3W	3 #600MCM 1 #2, 3" C	400A-4W	4 #600MCM 1 #2, 3" C
450A-3W	3 #750MCM 1 #2, 4" C	450A-4W	4 #750MCM 1 #2, 3" C
500A-3W	3 #900MCM 1 #2, 3" C, 2-SETS	500A-4W	4 #900MCM 1 #2, 3" C, 2-SETS
600A-3W	3 #1200MCM 1 #1, 3" C, 2-SETS	600A-4W	4 #1200MCM 1 #1, 3" C, 2-SETS
700A-3W	3 #1500MCM 1 #1, 3" C, 2-SETS	700A-4W	4 #1500MCM 1 #1, 3" C, 2-SETS
800A-3W	3 #2000MCM 1 #1, 3" C, 2-SETS	800A-4W	4 #2000MCM 1 #1, 3" C, 2-SETS
1000A-3W	3 #3000MCM 1 #1, 3" C, 2-SETS	1000A-4W	4 #3000MCM 1 #1, 3" C, 2-SETS
1200A-3W	3 #4000MCM 1 #1, 3" C, 2-SETS	1200A-4W	4 #4000MCM 1 #1, 3" C, 2-SETS
1600A-3W	3 #5000MCM 1 #1, 3" C, 2-SETS	1600A-4W	4 #5000MCM 1 #1, 3" C, 2-SETS
2000A-3W	3 #6000MCM 1 #1, 3" C, 2-SETS	2000A-4W	4 #6000MCM 1 #1, 3" C, 2-SETS
2500A-3W	3 #8000MCM 1 #1, 3" C, 2-SETS	2500A-4W	4 #8000MCM 1 #1, 3" C, 2-SETS
3000A-3W	3 #10000MCM 1 #1, 3" C, 2-SETS	3000A-4W	4 #10000MCM 1 #1, 3" C, 2-SETS
4000A-3W	3 #15000MCM 1 #1, 3" C, 2-SETS	4000A-4W	4 #15000MCM 1 #1, 3" C, 2-SETS

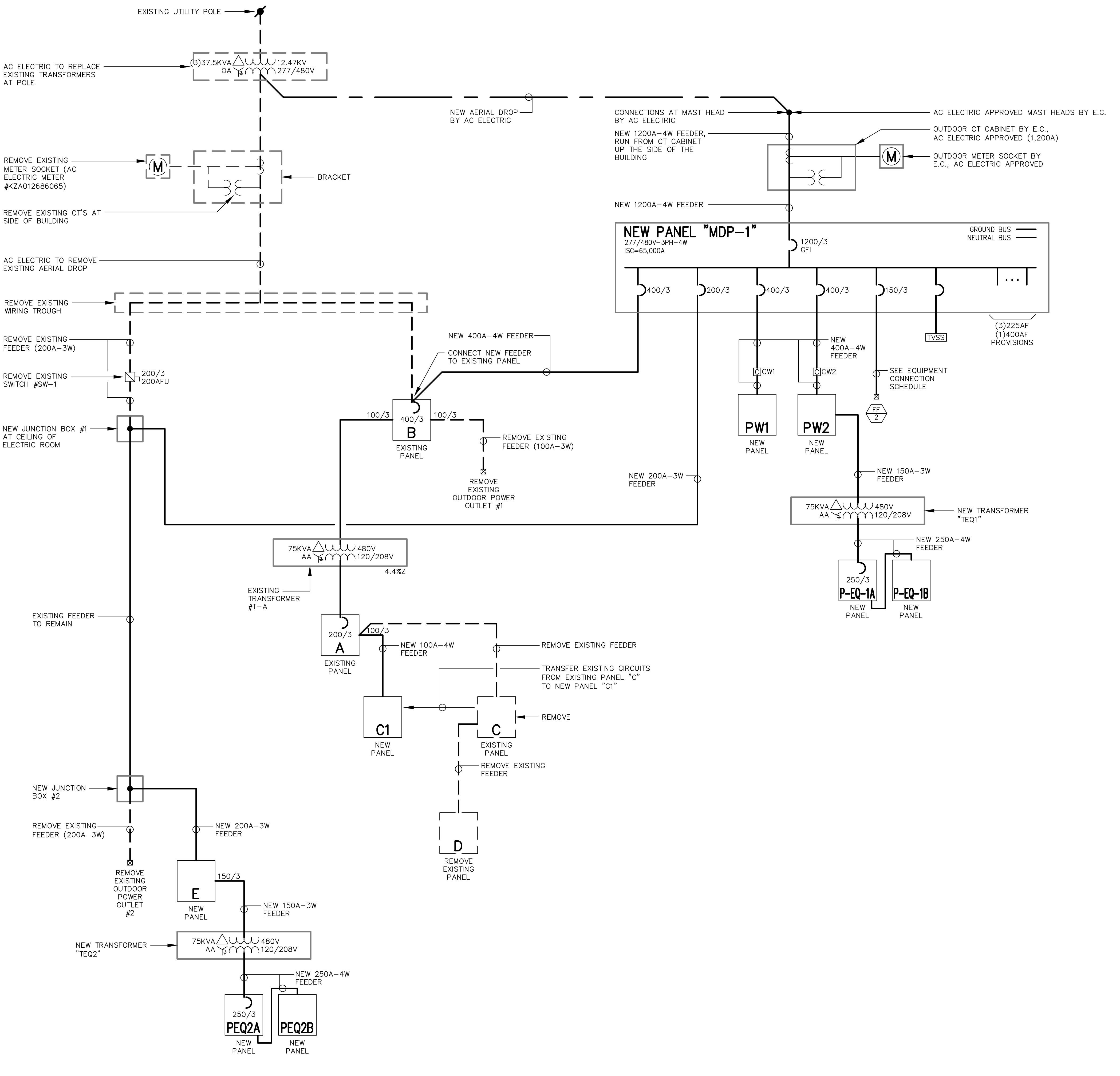
NOTES:  
 1) FEEDERS ABOVE ARE BASED ON COPPER CONDUCTORS.  
 2) UTILIZE FEEDERS AS SHOWN BY FEEDER DESIGNATIONS ON THE SINGLE LINE DIAGRAM. FEEDER DESIGNATIONS (AND NOMINAL FEEDER AMPACITY) MAY DIFFER FROM OVERCURRENT DEVICE RATING PROTECTING THE FEEDER.  
 3) GROUNDING CONDUCTORS SHOWN ABOVE ARE AS PER NEC TABLE 250.122 AND APPLY TO EQUIPMENT GROUNDING CONDUCTORS RUN WITH WIRING. DO NOT USE THIS TABLE FOR SIZING GROUNDING ELECTRODE CONDUCTORS (SIZE GROUNDING ELECTRODE CONDUCTORS AS PER NEC TABLE 250.66) WHERE A CONDUCTOR RUN WITH WIRING IS UTILIZED AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR (AS PER NEC ARTICLE 250.121, INSTALLED AS PER NEC ARTICLE 250.6(A)). UTILIZE A GROUNDING CONDUCTOR HAVING THE LARGER OF THE SIZE INDICATED IN NEC TABLE 250.66 AND THE SIZE INDICATED IN NEC TABLE 250.122.  
 4) FOR EACH FEEDER DESIGNATION ABOVE, WIRING MAY BE USED WHICH DIFFER FROM THE FEEDER ABOVE (FOR EXAMPLE, PARALLEL FEEDERS WITH DIFFERENT COMBINATIONS OF SETS/SIZES OF CONDUCTORS) WHERE APPROVED IN WRITINGS BY THE ELECTRICAL ENGINEER PROVIDED THAT THE FEEDER AMPACITY EQUALS OR EXCEEDS THE AMPACITY NOTED IN THE FEEDER DESIGNATION AND PROVIDED THAT THE FEEDER PROVIDES EQUAL OR IMPROVED VOLTAGE DROP PERFORMANCE.

DESCRIPTION	LIGHTING (kW)	RECEP POWER (kW)	KITCHEN (kW)	ELEVATOR (kW)	CONTINUOUS EQUIPMENT (kW)	HEATING (kW)	A/C (kW)	TOTAL DEMAND (kW)	WINTER DEMAND (kW)	SUMMER DEMAND (kW)	3-PHASE VOLTAGE (V)	OC DEVICE RATING (A)	PERCENT LOADED
NATIONAL ELECTRICAL CODE REFERENCE	220.42	220.44	220.58	220.14	220.50	220.80	220.80	N/A	N/A	N/A	N/A	N/A	N/A
PANEL "C1" LOAD	1.6	40.5	0.0	0.0	13.7	0.0	0.0	36.3	30.0	30.0	208	100	83%
PANEL "A" SUBTOTAL	1.6	40.5	0.0	0.0	13.7	0.0	0.0	36.3	30.0	30.0	208	100	83%
PANEL "B" LOAD	4.8	31.0	0.0	0.0	18.2	0.0	0.0	82.9	56.4	56.4	208	200	78%
PANEL "B" SUBTOTAL	4.8	31.0	0.0	0.0	18.2	0.0	0.0	82.9	56.4	56.4	208	200	78%
PANEL "C" LOAD	50.9	90.1	0.0	0.0	27.4	15.6	0.0	183.9	143.9	128.3	480	400	43%
PANEL "C" SUBTOTAL	50.9	90.1	0.0	0.0	27.4	15.6	0.0	183.9	143.9	128.3	480	400	43%
PANEL "PEQ2B" LOAD	11.3	0.0	0.0	0.0	1.2	1.4	0.0	13.9	13.2	11.9	208	250	15%
PANEL "PEQ2A" SUBTOTAL	0.0	23.6	0.0	0.0	23.1	2.5	0.0	49.2	39.9	42.4	208	250	47%
PANEL "PEQ2A" SUBTOTAL	0.0	23.6	0.0	0.0	23.1	2.5	0.0	49.2	39.9	42.4	208	250	47%
PANEL "PEQ2A" LOAD	0.2	70.7	0.0	0.0	37.0	1.4	2.5	38.8	38.8	38.8	480	200	23%
PANEL "PEQ2A" SUBTOTAL	0.0	36.7	0.0	0.0	61.4	1.4	2.5	101.9	86.1	87.2	480	200	52%
PANEL "PEQ2B" LOAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	480	250	0%
PANEL "PEQ2A" SUBTOTAL	0.2	70.7	0.0	0.0	0.0	0.0	0.0	70.9	40.9	40.6	480	250	20%
PANEL "PEQ2A" SUBTOTAL	0.2	70.7	0.0	0.0	0.0	0.0	0.0	70.9	40.9	40.6	480	250	20%
PANEL "PEQ2B" LOAD	0.2	189.2	0.0	0.0	0.0	0.0	0.0	189.2	99.0	99.0	480	400	30%
PANEL "PEQ2B" SUBTOTAL	0.2	259.9	0.0	0.0	0.0	0.0	0.0	260.1	135.2	135.2	480	400	41%
PANEL "PW1" LOAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	480	400	0%
PANEL "PW1" SUBTOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	480	400	0%
#EF-2 EXHAUST SYSTEM FAN	0.0	0.0	0.0	0.0	73.0	0.0	0.0	73.0	73.0	73.0	480	150	59%
PANEL "MDPT" TOTAL	51.1	618.1	0.0	0.0	161.8	16.8	2.5	860.3	543.8	526.4	480	1,200	55%

NOTES:  
 1) FOR RECEPTACLE POWER LOADS, DEMAND FACTOR IS 100% FOR THE FIRST 10 KVA OR LESS AND 50% FOR THE REMAINDER.

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ILLUMINATION LAMPS	REMARKS
A	2' X 4' RECESSED MULTI-LENS	FINLITE	HFR-LED-F-2x4-D00-1R-3500K-277V-SC-C	41 W, 5.41S LM, 3,500K, 80-CRI LED	120V OR 277V OPERATION AS REQUIRED. 0-10V DIMMABLE FLAT LENS, DIFFUSED CENTER OPTIC. EXACT MOUNTING TO MATCH CEILING TYPE. DLC LISTING
B	2' X 2' RECESSED MULTI-LENS	FINLITE	HFR-LED-F-2x2-D00-1R-3500K-277V-SC-C	29 W, 3.39T LM, 3,500K, 85-CRI LED	120V OR 277V OPERATION AS REQUIRED. 0-10V DIMMABLE FLAT LENS, DIFFUSED CENTER OPTIC. EXACT MOUNTING TO MATCH CEILING TYPE. DLC LISTING
C	PENDANT MOUNTED INDUSTRIAL LOW-BAY	REBALL	EPH8-16-UT-HK-CH-02A-194L-02R3-LCC-DV-SCH	204W, 23.38SLM, 4,000K, 80-CRI LED	18" DIAMETER CLEAN POLY CARBONATE REFLECTOR. 8W UPLIGHT DIFFUSER. GLOSS WHITE FINISH. 0-10V DIMMABLE SAFETY CABLES FROM REFLECTOR TO HOUSING TO STRUCTURE. MOUNT WITH POWER HOOK, HOOK LOOP, AND CORD AND PLUG AT HEIGHT AS PER ARCHITECT
D	4' SURFACE OR PENDANT	COLUMBIA	MPS 4-35 ML-C W-ED U	40W, 4.956LM, 3,500K, 80-CRI LED	0-10V DIMMABLE. DLC AND DAMP LOCATION LISTING. WHITE FINISH. (SHOWS RATED VOLT LOCATION LISTING FOR CEILING). ENERGY STAR CERTIFIED. SUITABLE FOR CLOSETS. 0-10V DIMMABLE. MOUNT AT HEIGHT AS PER ARCHITECT
EX	4' PENDANT MOUNTED INDUSTRIAL HIGH-BAY, EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	(6) 54W T5 HO, 3,500K	
F	UNIVERSAL FLUSH DOWNLIGHT	HALO	SLD612 8 35 WH UNL JB	15W, 1.215LM, 3,500K, 80-CRI LED	6" NOMINAL FLAT LENS. WHITE FINISH. DAMP LOCATION LISTING. (SHOWS RATED VOLT LOCATION LISTING FOR CEILING). ENERGY STAR CERTIFIED. SUITABLE FOR CLOSETS. 0-10V DIMMABLE.
G	2' X 4' RECESSED PANEL	COLUMBIA	CP24-4135	40W, 4.307LM, 3,500K, 80-CRI LED	PROTECTED LENS. 0-10V DIMMABLE. DLC AND DAMP LOCATION LISTING. (SHOWS RATED VOLT LOCATION LISTING FOR CEILING). ENERGY STAR CERTIFIED. SUITABLE FOR CLOSETS. 0-10V DIMMABLE.
H	2' X 2' RECESSED PANEL	COLUMBIA	CP22-4035	41W, 4.302LM, 3,500K, 80-CRI LED	PROTECTED LENS. 0-10V DIMMABLE. DLC AND DAMP LOCATION LISTING. (SHOWS RATED VOLT LOCATION LISTING FOR CEILING). ENERGY STAR CERTIFIED. SUITABLE FOR CLOSETS. 0-10V DIMMABLE.
EM	EMERGENCY BATTERY UNIT, SELF-CONTAINED, TWO (2) INTEGRAL LIGHTING HEADS	EMERGI-LITE	JSC18-2-10 LA-D3	(2) 4W, 130LM, 9VDC, MR16 LED	120-277 VAC/6 VDC OPERATION. CONNECT TO NEARBY LIGHTING CIRCUIT. (SHOWS RATED VOLT LOCATION LISTING FOR CEILING). ENERGY STAR CERTIFIED. SUITABLE FOR CLOSETS. 0-10V DIMMABLE. INTEGRAL BATTERY BACKUP. SELF-CONTAINED. DOES NOT POWER REMOTE LIGHTING HEADS. TIME DELAY ON POWER RESTORATION
REM	SURFACE REMOTE EMERGENCY LIGHTING DUAL HEAD, OUTDOOR STYLE	EMERGI-LITE	EP380 LI	(2) 5W, 340LM, 12VDC, MR16 LED	12 VDC OPERATION. NEMA-RATED WEATHERPROOF HOUSING AND CLEAR IMPACT-RESISTANT COVER. OFF-WHITE FINISH. CONNECT TO NEARBY EMERGENCY BATTERY UNIT
EXEM	COMBINATION EXIT SIGN AND EMERGENCY LIGHTING UNIT, TWO (2) INTEGRAL LIGHTING HEADS FOR CONNECTING REMOTE EMERGENCY LIGHTING HEADS. RED LETTERS ON WHITE FACE AND HOUSING	EMERGI-LITE	WR 1224M 4 R 2 LI D3	(2) 5W, 340LM, 12VDC, MR16 LED AND INTEGRAL DIFFUSED LED	120-277 VAC/24 VDC OPERATION. CONNECT TO NEARBY LIGHTING CIRCUIT. QUANTITY OF PAGES AS REQUIRED. PROVIDE DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS. WHITE CONTRAST BODY. STYLE THERMOPLASTIC HOUSING. INTEGRAL PCB BATTERY BACKUP (24WH MINIMUM CAPACITY FOR CONNECTING UP TO TWO (2) REMOTE LIGHTING HEADS). TIME DELAY ON POWER RESTORATION

NOTES:  
 1) PROVIDE ALL LUMINAIRES AS UNIVERSAL 120 V AND 277 V OPERATION, UNLESS INDICATED OTHERWISE.  
 2) VERIFY ALL DEPTHS OF RECESSED LUMINAIRES PRIOR TO ORDERING. COORDINATE WITH CEILING DEPTHS.  
 3) WHERE LUMINAIRES ARE SPECIFIED OR OTHERWISE FURNISHED WITH TAMPER RESISTANT HARDWARE, SEE SPECIFICATIONS.  
 4) PROVIDE ALL LIGHT EMITTING DIODE (LED) AND FLUORESCENT LUMINAIRES WITH UNIVERSAL VOLTAGE (120-277 V) SOLID STATE ELECTRONIC DRIVERS/BALLASTS, UNLESS INDICATED OTHERWISE. PROVIDE ALL LINEAR FLUORESCENT LUMINAIRES WITH T8 ENERGY SAVING LAMPS, UNLESS INDICATED OTHERWISE.  
 5) FOR ALL LED AND FLUORESCENT LUMINAIRES SHOWN ON THIS SCHEDULE WITH 0-10 V DIMMABLE DRIVERS/BALLASTS (WHICHEVER 0-10 V DIMMING IS INDICATED IN THE DESCRIPTION, LAMPS, OR REMARKS ABOVE OR WHERE A CATALOG NUMBER IS USED ABOVE WHICH DENOTES 0-10 V DIMMABLE DRIVERS/BALLASTS IN MANUFACTURER'S DATA), PROVIDE BOTH POWER WIRING AND 0-10 V CONTROL WIRING TO ALL LUMINAIRES. RUN CONTROL WIRING AS REQUIRED FROM ALL LIGHTS WITH 0-10 V DIMMABLE DRIVERS/BALLASTS TO THE RESPECTIVE DIMMER OR SWITCH CONTROLLING THE LIGHTING. WHERE DIMMERS ARE SHOWN ON THE DRAWINGS (INCLUDING COMBINATION SENSOR DIMMERS), INTERCONNECT CONTROL WIRING WITH DIMMERS AS PER MANUFACTURER. WHERE DIMMERS ARE NOT SHOWN ON THE DRAWINGS, INSTALL CONTROL WIRING TO THE SWITCH (NON-DIMMED) LOCATION AND SAFELY INSULATE AND CAP OFF CONTROL WIRING AS REQUIRED TO FACILITATE FUTURE REPLACEMENT OF NON-DIMMED SWITCH WITH DIMMER.  
 6) FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE AS DLC LISTED, PROVIDE ONLY LUMINAIRES QUALIFIED AND LISTED IN THE DESIGN LIGHTING CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTING (QPL) AVAILABLE AT THE DLC WEBSITE (SEE BELOW). SUBMIT INFORMATION SHOWING LISTING IN THE DLC QPL AS PART OF SHOP DRAWINGS FOR REVIEW AND APPROVAL.  
 http://www.dlc.com/lighting-qualified-architects  
 7) PROVIDE ALL HIGH INTENSITY DISCHARGE LUMINAIRES WITH MULTIPLE TAP TYPE BALLASTS.  
 8) MANUFACTURERS SHOWN ABOVE INDICATE THE BASIS OF DESIGN. OTHER MANUFACTURERS (INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN IN THE LIGHTING SPECIFICATIONS) SHALL BE CONSIDERED.



1 SINGLE LINE DIAGRAM  
 E4 SCALE: N.T.S.

UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN SHALL BE NEW AND SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR



ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH IN.
... 25) WHEN ELECTRICAL WORK INVOLVES REMOVAL AND REINSTALLATION OF EXISTING CEILINGS, REMOVAL AND RELOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR...

ELECTRICAL SYMBOL LIST

- 20 A, 277/120 V SWITCH, SINGLE POLE (S), THREE-WAY (S-3), AND FOUR-WAY (S-4), RESPECTIVELY, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER OWNER
0-10 V, 30 Ma, B A, 120/277 V, LIGHT EMITTING DIODE (LED) DRIVER OR FLUORESCENT ELECTRONIC BALLAST DIMMER SWITCH (S-DL), SINGLE POLE, SLIDE TYPE (WITHOUT ON/OFF TOGGLE OR ROCKER SWITCH), FULLY RATED, SPECIFICATION GRADE, FLUSH MOUNTED, LOW PROFILE, FINISH AND COVER PLATE AS PER ARCHITECT...
... 17S) SPRINKLER SYSTEM TAMPER SWITCH CONNECTION [TS], FURNISHED AND INSTALLED ON PIPING BY SPRINKLER CONTRACTOR AND WIRED TO FIRE ALARM SYSTEM BY E.C.

SHOP EPO SYSTEM NOTES

- 1) PROVIDE A COMPLETE EMERGENCY POWER OFF (EPO) SYSTEM FOR #05 WELDING SHOP/LAB AS SHOWN ON THE DRAWINGS. PROVIDE SYSTEM CONSISTING OF CONTACTOR(S) CONTROLLED BY EPO PUSHBUTTONS.
2) PROVIDE EPO PUSHBUTTON STATIONS AT EVERY EXIT DOOR FROM TWO AS SHOWN ON THE DRAWINGS. PROVIDE EACH EPO PUSHBUTTON STATION WITH TWO (2) NORMALLY OPEN (N.O.) AND TWO (2) NORMALLY CLOSED (N.C.) CONTACTS (ONE (1) N.O. CONTACTING THE EPO CONTACTOR, ONE (1) N.O. SPARE, AND TWO (2) N.C. SPARE). PROVIDE EPO PUSHBUTTON STATION AS CONTROLLING CONTACT TWO (2) POSITION (OUT FOR NORMAL AND IN TO ACTIVATE EPO) 35 mm (1-3/8") DIAMETER "MUSHROOM" HEAD SWITCH WITH "YELLOW EXTENDED GUARD TO PREVENT INADVERTENT OPERATION AND WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE READING "EPO EMERGENCY POWER OFF - PUSH TO STOP". UTILIZE SQUARE-D #8001 KR5-R20-H2 (APPROX.) SWITCH WITH #9001/K56YM GUARD OR APPROVED EQUAL BY CUTLER-HAMMER, GENERAL ELECTRIC, OR SIEMENS.
... 6) SUBMIT COMPLETE AND DETAILED SHOP DRAWINGS FOR THE ENTIRE EPO SYSTEM AND ALL COMPONENTS, INCLUDING EQUIPMENT CUTS AND WIRING DIAGRAMS, FOR REVIEW AND APPROVAL.

Table with 4 main sections: Panel Schedule (A), Panel Schedule (B), Load Description, and Phase Balance VA. Includes columns for Description, LTG, Equip, HVAC, BKR, Bus, Connection, BKR, HVAC, Equip, LTG, and various amperage/voltage ratings.

NOTES: 1) THIS PANEL IS EXISTING, MODIFY AS SHOWN. EXISTING PANEL IS ITC #64242MBS200C-2 LOAD CENTER. (REF) INDICATES EXISTING CIRCUIT TO REMAIN. (REF) INDICATES EXISTING CIRCUIT TO BE REMOVED FROM NEW/PANEL. EXTEND WIRING FROM EXISTING PANEL LOCATION TO NEW/PANEL AS REQUIRED, WITH WIRING TO MATCH EXISTING.
\* INDICATES NEW CIRCUIT. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OR IN SPACE FROM REMOVING AN EXISTING CIRCUIT BREAKER AS REQUIRED.
\* INDICATES NEW CIRCUIT CONNECT TO EXISTING SPARE CIRCUIT BREAKER OR CIRCUIT BREAKER FROM REMOVING AN EXISTING CIRCUIT AS REQUIRED.

Table with 4 main sections: Panel Schedule (B), Panel Schedule (A), Load Description, and Phase Balance VA. Includes columns for Description, LTG, Equip, HVAC, BKR, Bus, Connection, BKR, HVAC, Equip, LTG, and various amperage/voltage ratings.

NOTES: 1) THIS PANEL IS EXISTING, MODIFY AS SHOWN. EXISTING PANEL IS ITC TYPE "CDP-7". (EX) INDICATES EXISTING CIRCUIT TO REMAIN. (REF) INDICATES EXISTING CIRCUIT TO BE REMOVED FROM NEW/PANEL. EXTEND WIRING FROM EXISTING PANEL LOCATION TO NEW/PANEL AS REQUIRED, WITH WIRING TO MATCH EXISTING.
\* INDICATES NEW CIRCUIT. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OR IN SPACE FROM REMOVING AN EXISTING CIRCUIT BREAKER AS REQUIRED.
\* INDICATES NEW CIRCUIT CONNECT TO EXISTING SPARE CIRCUIT BREAKER OR CIRCUIT BREAKER FROM REMOVING AN EXISTING CIRCUIT AS REQUIRED.

NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED EDITION

ELECTRICAL CONTRACTOR (EC)
MECHANICAL CONTRACTOR (MC), INCLUDING ALL MECHANICAL TRADES IN GENERAL (MECHANICAL, HVAC, AT, PLUMBING, FIRE PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES
GENERAL CONTRACTOR (GC), INCLUDING ALL GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL, CONCRETE, SITE, ETC.), REFER TO ARCHITECTURAL AND SITE DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES

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REVISIONS
a, e.
b, f.
c, g.
Project No. 19-13
Date: 06-25-19
Scale: AS NOTED
ELECTRICAL NOTES AND DETAILS
E5

UNLESS NOTED OTHERWISE, ALL WORK ON THIS PLAN SHALL BE NEW AND SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR



