



ADDENDUM NO. 3

1904 / KVCC WHITNEY WING RENOVATIONS

Lewis + Malm Architecture

30JAN2020

This Addendum forms a part of the contract documents. It modifies them as follows:

DISCIPLINES: Structural, Architecture, Mechanical, Electrical

CLARIFICATIONS:

PRE-BID MTG The Mandatory Pre-Bid Walk-Through was held as scheduled on 28JAN2020. Fourteen (14) General Contractors attended (required), and Eighteen (18) Sub-Contractors attended (optional). See the 2 page list attached to this ADDENDUM.

ADDENDUM #2 REVISE text reading “ABI # 2 & ABI #3 CLARIFICATION: The design intent for these alternates is to obtain pricing for three colors, field applied, spray-applied paintworks on existing- and new-installations located on the ceilings and walls of the New Welding-Lab area. Color #1: Walls from FFL to +8’0”, Color #2: Walls +8’0” to Underside of Metal Deck and entire Ceiling area, including structural steel and all MEP installations”, to read “ABI # 2 & ABI #3 CLARIFICATION: The design intent for these alternates is to obtain pricing for two colors, field & spray-applied paintworks on all existing- and new-installations located on the ceilings and walls of the New Welding-Lab area. Color #1: SW 6991 Black Magic, Sheen: Flat, for Walls from FFL to +8’0”, including electrical conduit, junction boxes, fittings, etc. (except for galvanized metal cover plates, which shall remain natural and Welding Booth Exhaust flexible ducting & armatures, which shall have manufacturer’s standard specified finishes)”. Color #2: SW 7050 Useful Gray, Sheen: Satin, for Walls from +8’0” to underside of Metal Deck and entire Ceiling area, including structural steel and all MEP installations. Color #3: SW 7045 Intellectual Gray, Sheen: Satin, for new wood trim on top of existing and new plywood walls.

RATED PLYWOOD CLARIFICATION: There is no fire rated plywood required in this project. Room 109 is 1-Hour rated, however the details indicated cover this concern.

EXISTING POLES CLARIFICATION: The General Contractor shall remove two existing Electrical Lineman’s Mock-up poles & rigging located in the New Welding-Lab area that are no longer required, roughly 16’0’ Tall w/ an ~10’0” wide crossbar.

FENCE CLARIFICATION: Detail 4/A6 indicates a typical condition of a HAUG Frame Connector which shall be used for all post & rail connections. Manufacturer’s hardware of equal quality will be acceptable. Refer to Section 32 31 13, PARA 2.4 Fittings for requirements.



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- CONSTRUCTION** CLARIFICATION: The current last day of school (pending no additional snow days), is scheduled for 08MAY2020. After this date the General Contractor will have access to the PMT-Lab Mezzanine, the Existing Welding-Lab and the Frye Lobby areas and other incidental areas of the Whitney/Frye complex as needed. As noted in Addendum #2 dated 24JAN2020, the New Welding-Lab area will be available immediately for GC use.
- WELDING BOOTHS** CLARIFICATION: The 2"x2" tube steel framing of the eighteen (18) Welding Booths specified shall have a minimum tube wall thickness of 13 gauge. The common walls between the welding booths shall be fabricated as one wall unit (two adjacent parallel frames & walls are not required). Where the 5'x5' Welding Booth meets the 6'x6' ADA Welding Booth (West wall of New Welding-Lab), provide suitable attachment steel hardware for the Welding Curtain Assembly of the adjacent 5'x5' Welding Booth fastened to the upper bar of the 6'x6' Welding Booth common wall.
- PMT-LAB** CLARIFICATION: The Owner will remove all small tools and other items related to this program in this area prior to the end of the academic year (08MAY2020). The General Contractor shall provide 6 mil polyethylene dust protection over all large stationary equipment in the PMT-Lab, covering the top and all sides of each unit and duct taped secure. During construction where old mechanical or electrical equipment is being removed and when new equipment and/or installations are being implemented, the General Contractor shall also provide Luan Plywood on top of any existing and poly-protected equipment, weighted down and covering the entire top area as an additional protection from falling objects. On the PMT-Lab Mezzanine, the General Contractor shall also be responsible to temporarily remove railing elements, metal screen frames & metal screen doors that might hinder the installation of any new equipment.
- REMOVALS** In the PMT-Lab, the existing mechanical equipment indicated for removals shall be disassembled in a manner that permits safe removal from the building and disposal off site.
- ALTERNATE #1** In the PMT-Lab, regarding any adjustments required to existing electrical conduit on the existing railings in the area of the existing air compressor in order to install the cementitious wood fiber panels specified in Alternate # 1, such efforts shall be included in the alternate pricing.



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ALTERNATE #1 In the New Welding-Lab, the design intent is to place the cementitious wood fiber panels where it is easy to do in terms of existing ceiling installations with minimal to no cutting of the 2'x4' panels. All new ceiling installations shall be accomplished in a manner that does not conflict with the new cementitious wood fiber panels.

PAINT WORKS The base bid includes paintworks as indicated on A2 for the existing steel/concrete bollards.

DRAWINGS:

A2 Existing Bollards: REVISE text reading "(TYP, 4 TOTAL)", to read "(TYP, 2 TOTAL)".

3/A6 CLARIFICATION: The new 8'0" high plywood wall & cap trim indicated extends the entire length of the existing 2-hour rated wall (including behind the new Welding Booths), and clads the exterior of Room 109. This plywood shall be fastened to the existing metal studs and new wood studs in a neat & uniform pattern w/ corrosion resistant coarse thread, self-tapping, counter-sunken screws, #8, minimum 2" long, suitable for wood & metal substrates. This plywood wall cladding shall be A/B grade, installed with the A side exposed.

A9 DELETE in its entirety.

A9 ADD the drawing attached to this Addendum in its entirety (Detail 5/A9 has been revised), The 6'x6' ADA Welding Booths require two horizontal rows of 2x2 steel tube framing on three (3) sides in order to accommodate adjustable height requirements of the 14" deep welding shelves.

A10 DELETE in its entirety.

A10 ADD the drawing attached to this Addendum in its entirety (Detail 4/10 has been revised).

MD-1 DELETE in its entirety.

MD-1 ADD the drawing attached to this Addendum in its entirety (shows existing HWS/R piping be rerouted around electrical equipment on the mezzanine).

H1 DELETE in its entirety.

H1 ADD the drawing attached to this Addendum in its entirety (shows existing HWS/R



 piping be rerouted around electrical equipment on the mezzanine).

H3 DELETE in its entirety.

H3 ADD the drawing attached to this Addendum in its entirety (shows the strainer being removed from the compressed air piping detail and being replaced with a ½” pressure regulator).

E1 DELETE in its entirety.

E1 ADD the drawing attached to this Addendum in its entirety.

E3 DELETE in its entirety.

E3 ADD the drawing attached to this Addendum in its entirety.

E6 DELETE in its entirety.

E6 ADD the drawing attached to this Addendum in its entirety.

ELECTRICAL QUESTIONS & RESPONSES:

QUESTION 1) Please clarify the general note (at lower left corner of Drawing E3) regarding replacement of all existing FA signaling devices to addressable type, in the Frye Building. Only a handful of FA devices are depicted on the drawing within the Frye Building area, whereas this note potentially implies that many more FA devices than shown on the drawing within the Frye Building may require removal and replacement.

RESPONSE TO Q1: More devices are now shown (see drawing E3). Additionally, a note was added to include 2 manual pull stations, 2 horn/strobe units and 4 smoke detectors in the basement of Frye.

QUESTION 2) Please provide a product specification intent, for the welding outlet receptacles depicted on the 'proposed power plan' for the new welding lab. Please see electrical drawing E1, and also depicted on the electrical symbols legend, drawing E0, as "208 to 480V welder outlet". The symbol on the legend has a similar appearance to the Mercedes Benz logo (circle and peace sign).

RESPONSE TO Q2: On drawing E1 Power Notes: DELETE #1 text reading "Paint all Surface Conduit Powder Coat Black..." and ADD #2 text reading "The welding receptacles shall be pin and sleeve, provide Appleton Powertite Series or equal (See Drawing E1)".



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QUESTION 3) There is an 'electrical demolition plan' for the new welding lab (see electrical drawing E1. However, there is no electrical demolition plan for the existing welding shop. Is the intent, within the scope of this project, to completely demolish all electrical branch circuits, welding circuits, lighting, lighting circuits, etc. within the existing welding shop space, after the new welding shop is completed?

RESPONSE to Q3: No. The design intent is to keep the Old Welding lab in operation UNTIL after the new one is installed. The Owner has not determined what they will do with the space in the future. The design intent is that when the New Welding-Lab construction is completed and goes online, the Existing Welding-Lab will no longer function as a Welding-Lab.

QUESTION 4) Please clarify that it is the intent to remove existing and replace with new, all existing red emergency stop push buttons stations within the several existing labs, in accordance with 'mushroom head emergency equipment shutdown switch" symbol (please see symbol legend for same on drawing E0), as depicted by all of the symbols (with, and without, suffix 'ER') shown throughout the Frye Building on electrical drawing E2.

RESPONSE to Q4: That is the intent.

QUESTION 5) Presumably, all of these new emergency shutdown switches described in question 4 above, are proposed in conjunction with new shunt trip equipped main circuit breakers within the new panelboards, as well as the demolition of all of the existing contactors with suffix 'R' shown throughout the Frye Building. Please see electrical drawing E2. Please confirm the new shutdown switch devices shown with suffix 'ER', already have existing estop control wiring which can remain in place for reuse, whereas an emergency shutdown switch symbol with no suffix, depicts a proposed new shutdown switch at a new location where new estop control wiring will be required activate the new shunt trip main circuit breaker within the new panelboard at an existing or new lab.

RESPONSE to Q5: It is unknown the condition of the wiring for the existing Estops. Provide new wiring to the main shunt trip breakers.

QUESTION 6) Please clarify responsibility for furnishing and installing the welding booth unistrut frames depicted on the "welding booth electrical layout - 5' x 5' detail", and the "unistrut wall layout detail", both details shown on electrical drawing E01. Is the intent for the EC to furnish, install and secure to wall and floor, the unistrut frame for the welding booth?

RESPONSE to Q6: It is the responsibility of the Electrical Contractor to provide the unistrut to mount electrical equipment such as Panels WL and WH2 and the disconnects and welding receptacles. The General Contractor shall provide the welding booth metal framing, walls and accessories, as specified and indicated.



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QUESTION 7) Please clarify responsibility (GC or EC?) for cutting and patching openings where existing recessed flushed mounted panelboards are shown to be removed, and new panelboards are shown to be installed at the same location of the removed panelboard.

RESPONSE to Q7: On Drawing E6.0 in the Panelboard & Feeder Schedule: for LPA and P2, Note #5 indicates "For the recessed panelboards, keep the existing tub and replace the interior panelboard components." (See Drawing E6.0). No cutting patching is required.

SPECIFICATIONS:

- 05 50 00 PARA 2.4.F.12 CLARIFICATION: The 2' LED Lighting Strips (in the new Welding Booths), described herein are provided as specified by Electrical.

- 09 91 23 ADD PAR 2.13 TRAFFIC PAINT: Provide, prepare for and apply Sherwinn Williams PRO-PARK™ Waterborne Traffic Marking Paint, premium waterborne acrylic alkyd striping paint for replacing/repairing paint lines removed/damaged on asphalt surfaces as part of the Base Bid, Sheen: Flat, Color: White, Lining Pattern: Straight lines matching original layout.

- 26 05 00 PARA 2.3.B.1. DELETE text reading "Black powder coat in Lab".

ATTACHMENTS: As mentioned above.

END OF ADDENDUM NO. 3



PRE-BID WALK-THROUGH

1904/ KVCC WHITNEY WING RENOVATIONS

GENERAL CONTRACTORS WHO ATTENDED (PERMITTED TO BID)

28JAN2020

The following General Contractors attended the Mandatory Pre-Bid Walk-Through held on 28JAN2020 at Kennebec Valley Community College and are therefore permitted to BID the project:

NAME	LOCATION
• The Penobscot Company, Inc.	Rockport, ME
• E.W. Littlefield, Inc.	Hartland, ME
• J.F. Scott Construction Co.	Winthrop, ME
• Ralph McNaughton Construction, Inc.	Newport, ME
• Optimum Construction, Inc.	Portland, ME
• Blane Casey Building Contractor, Inc.	Augusta, ME
• S.J. Wood Construction Co.	Winthrop, ME
• H.E. Callahan Construction Co.	Auburn, ME
• Doten's Construction, Inc.	Freeport, ME
• King Construction Services, Inc.	Jonesport, ME
• Sheridan Construction Corp.	Fairfield, ME
• Nichols Construction, Inc.	Bangor, ME
• Great Falls Construction, Inc.	Gorham, ME
• Ganneston Construction Corp.	Augusta, ME



PRE-BID WALK-THROUGH

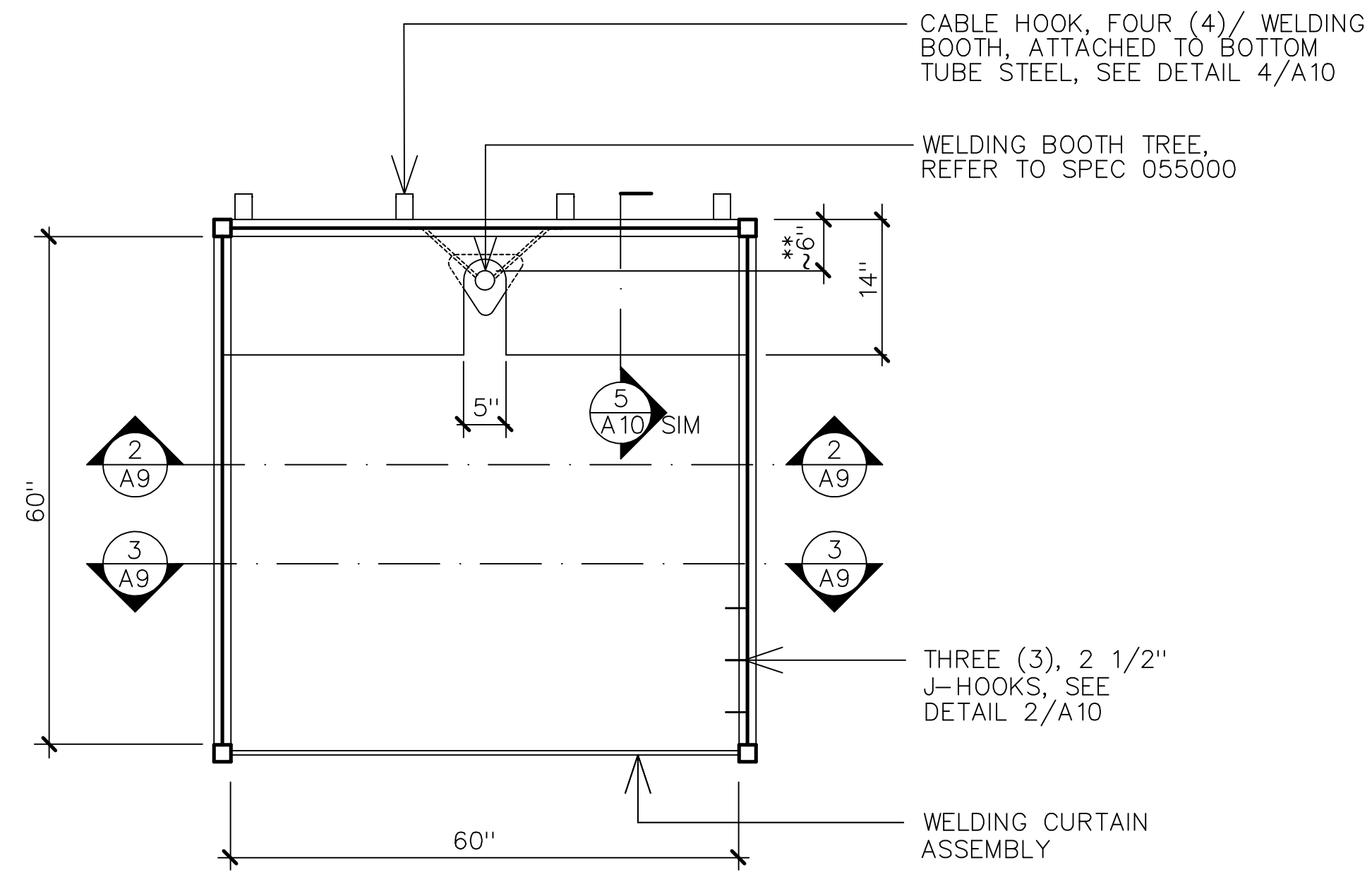
1904/ KVCC WHITNEY WING RENOVATIONS

SUB-CONTRACTORS WHO ATTENDED (OPTIONAL)

28JAN2020

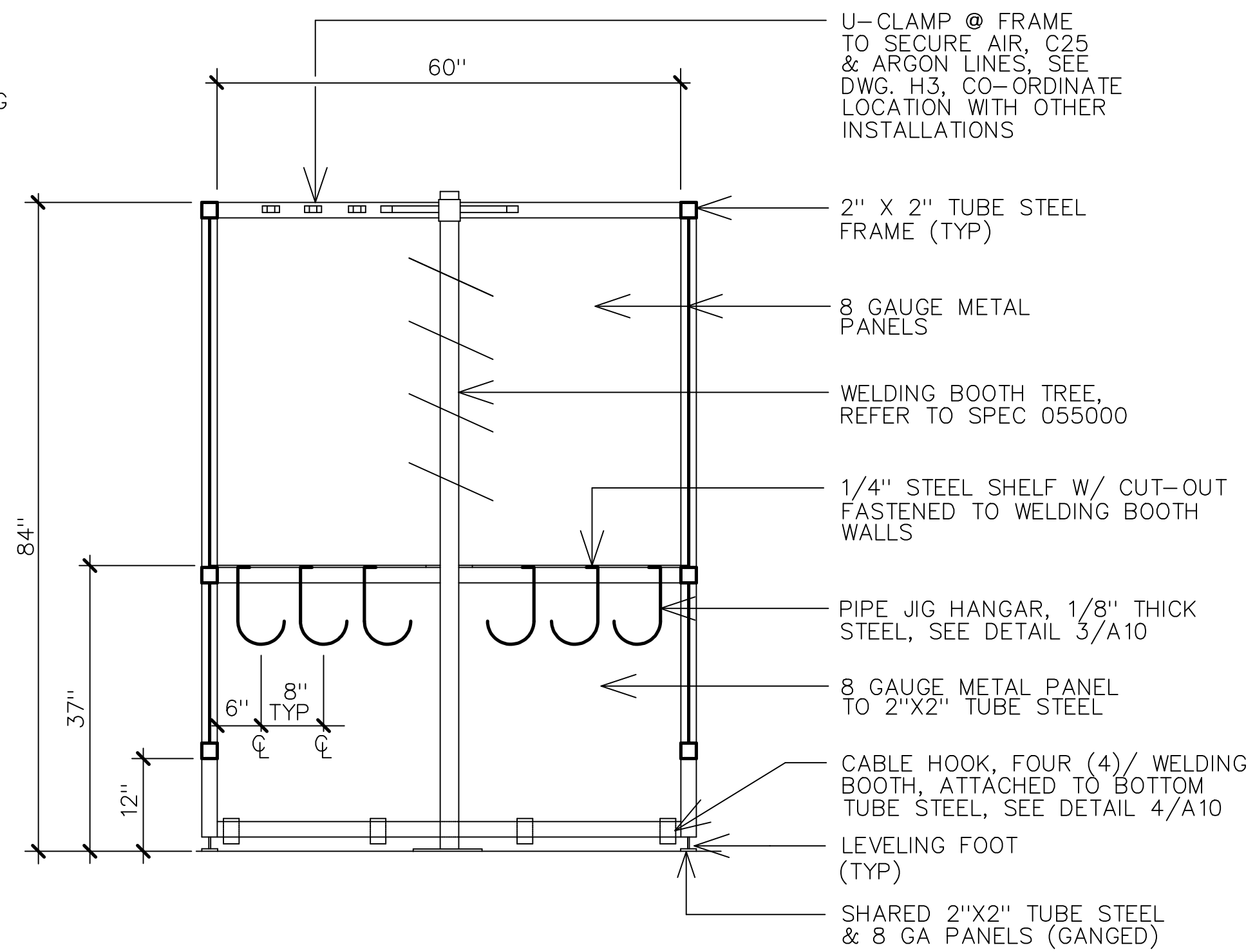
The following Sub-Contractors attended the Pre-Bid Walk-Through held on 28JAN2020 at Kennebec Valley Community College:

NAME	DISCIPLINE
• IEC Electrical & Data Services	Electrical
• Matrix Power Services	Mechanical
• AK&S Drywall, Inc.	Drywall
• Manter Construction, Inc.	Earthworks
• Johnson & Jordan	Mechanical, Electrical & Controls
• ABM Mechanical, Inc.	Mechanical
• Damon Mechanical Services	Mechanical
• S-H Electric	Electrical
• Perry Electric	Electrical
• HBC Hahnel Brothers Co.	Sheet Metal Work
• Norris A. Preble Co., Inc.	Mechanical
• Basix Automation Integrators	Controls
• Travers Electric, Inc.	Electrical
• Mechanical Services, Inc.	Mechanical
• MAC Electric	Electrical
• ELCO Electric, Inc.	Electrical
• Carmel Electric, Inc.	Electrical
• Lakeside Concrete Cutting, Inc.	Concrete

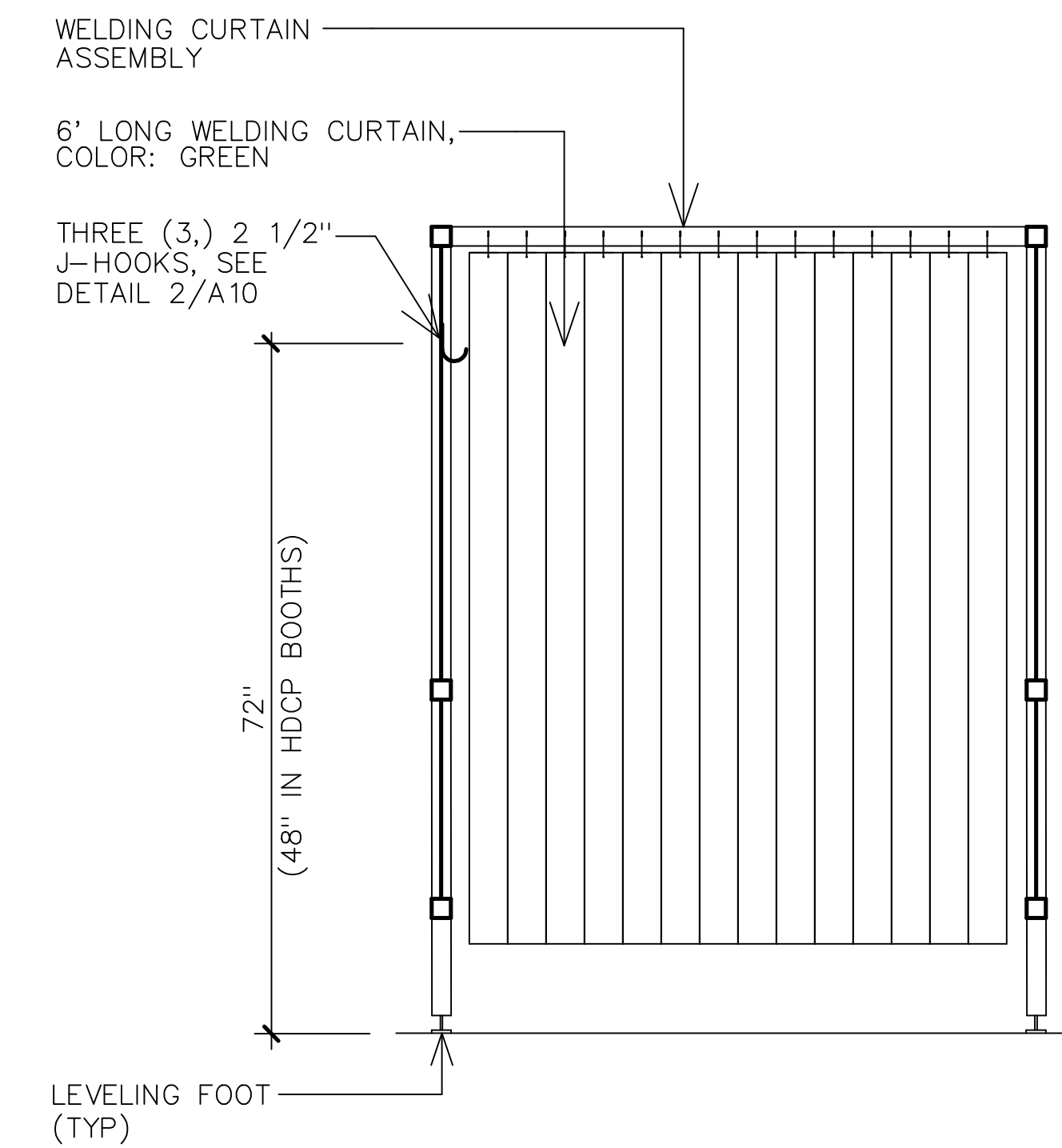


1 WELDING BOOTH PLAN
A9 3/4"=1'-0"

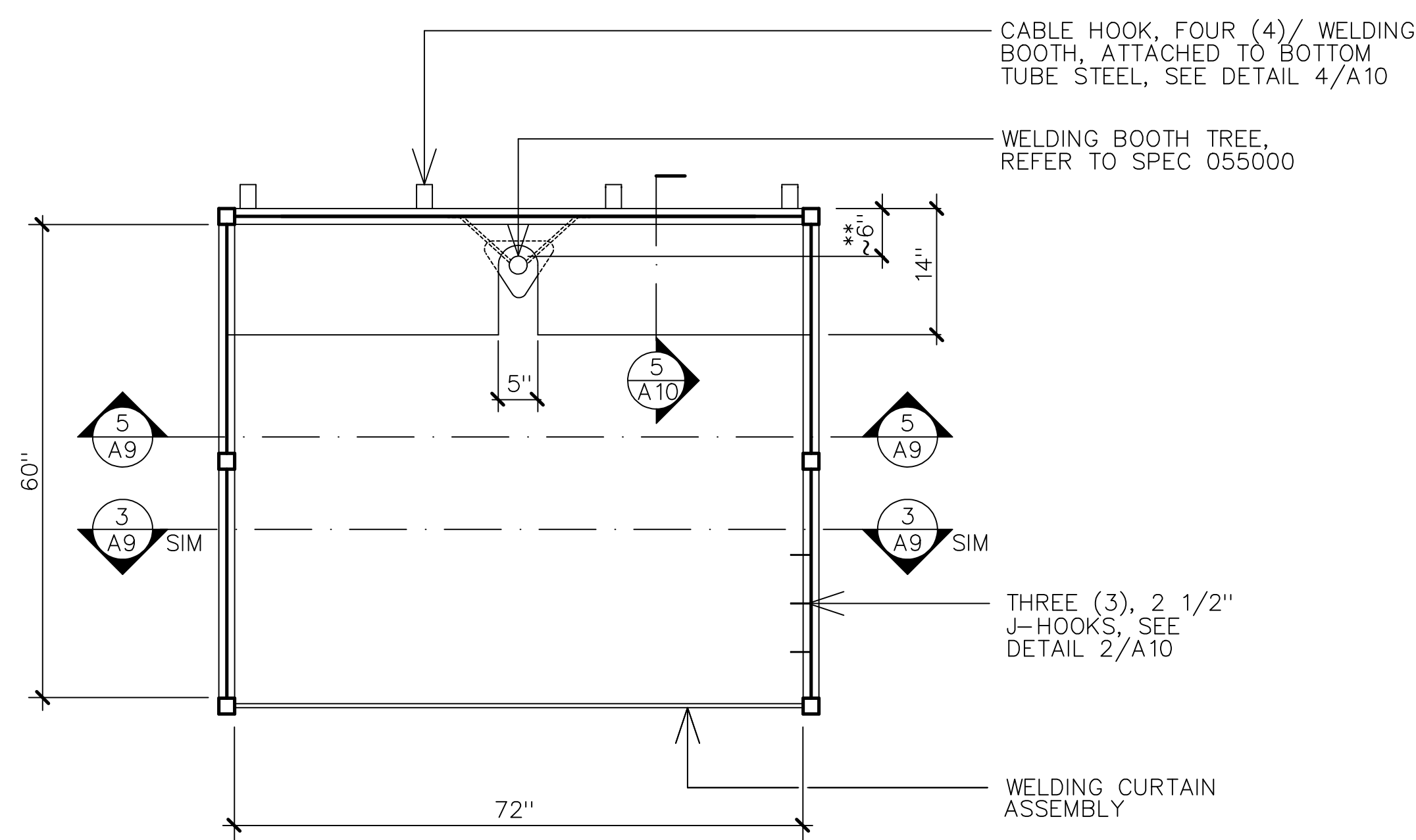
- NOTE:
1. ALL METAL IS POWDER COATED BLACK
 2. SEE DWGS H3 & E0.1 FOR LOCATION OF MECHANICAL & ELECTRICAL FIXTURE LOCATIONS
 3. ** SYMBOL DENOTES TO CO-ORDINATE DIM. W/ WELDING TREE MANUF.



2 WELDING BOOTH SECTION
A9 3/4"=1'-0"

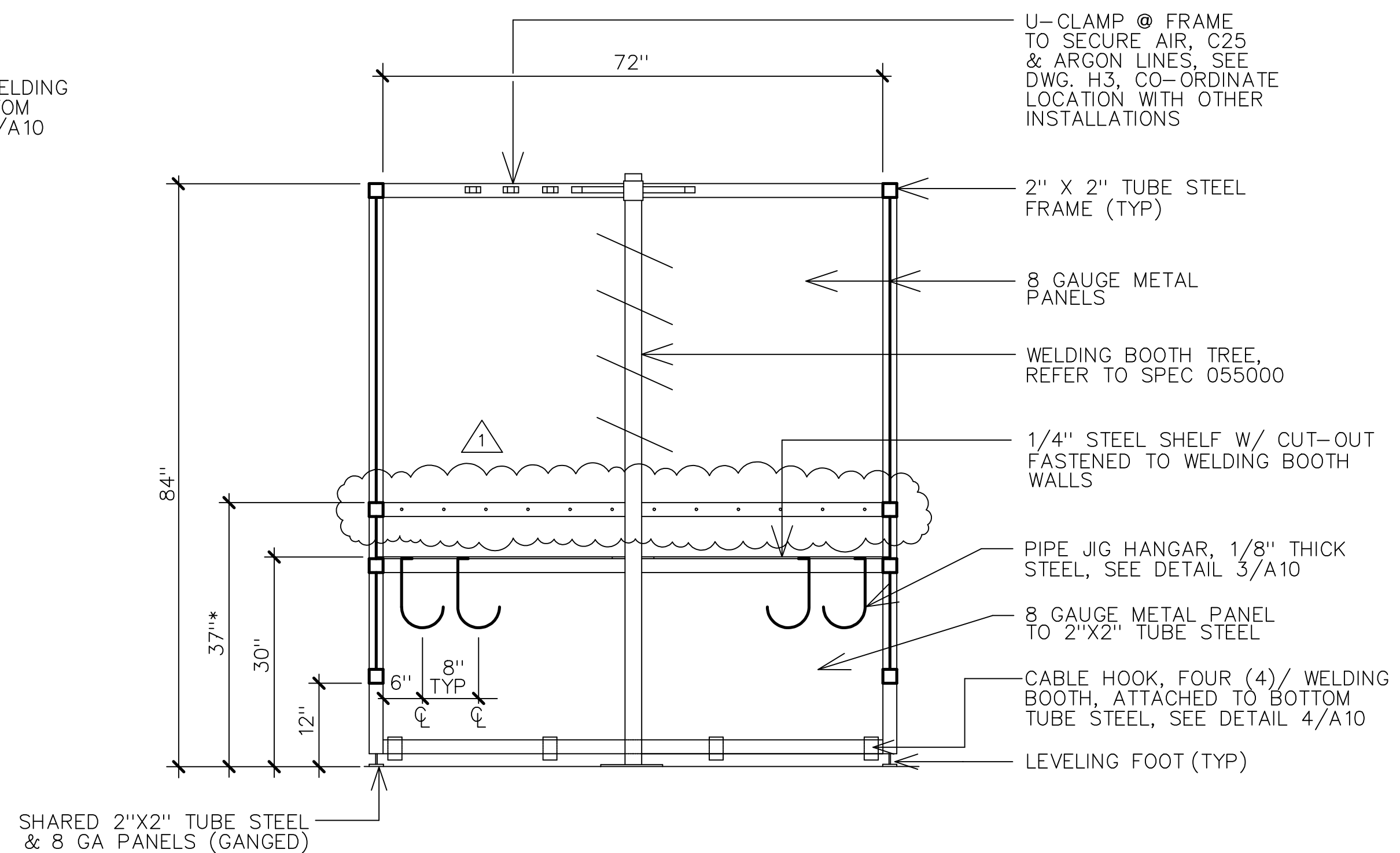


3 WELDING BOOTH SECTION
A9 3/4"=1'-0"



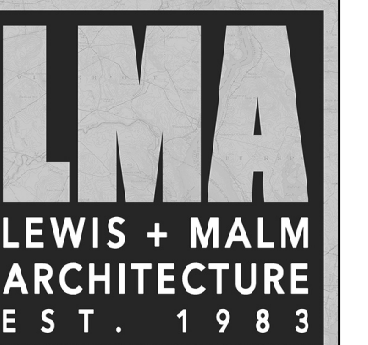
4 ADA WELDING BOOTH PLAN
A9 3/4"=1'-0"

- NOTE:
1. ALL METAL IS POWDER COATED BLACK
 2. SEE DWGS H3 & E0.1 FOR LOCATION OF MECHANICAL & ELECTRICAL FIXTURE LOCATIONS
 3. ** SYMBOL DENOTES TO CO-ORDINATE DIM. W/ WELDING TREE MANUF.



5 ADA WELDING BOOTH SECTION
A9 3/4"=1'-0"

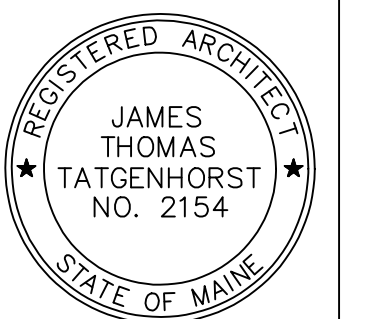
- NOTE:
- ** SYMBOL DENOTES TO DRILL HOLES 2"X2" TUBE STEEL (6" O.C.) FOR POSSIBLE STEEL SHELF ADJUSTMENT HT. TO 37", HOLES TO BE DRILLED @ SAME HT. IN SIDE PANELS, SEE 5/A10



124 MAIN ST.
P.O. BOX 1459
BUCKSPORT
MAINE 04496
207.469.7440

CONSTRUCTION DOCUMENTS

DATE: 08JAN2020



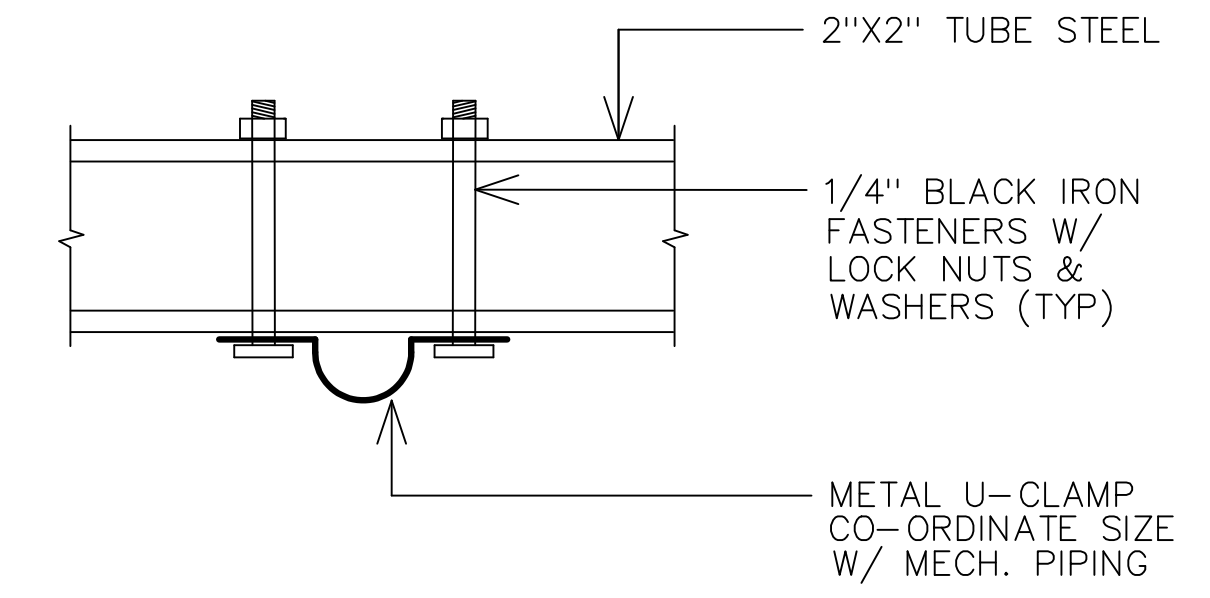
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KVCC WHITNEY WING RENOVATION
FAIRFIELD, MAINE
WELDING BOOTH DETAILS

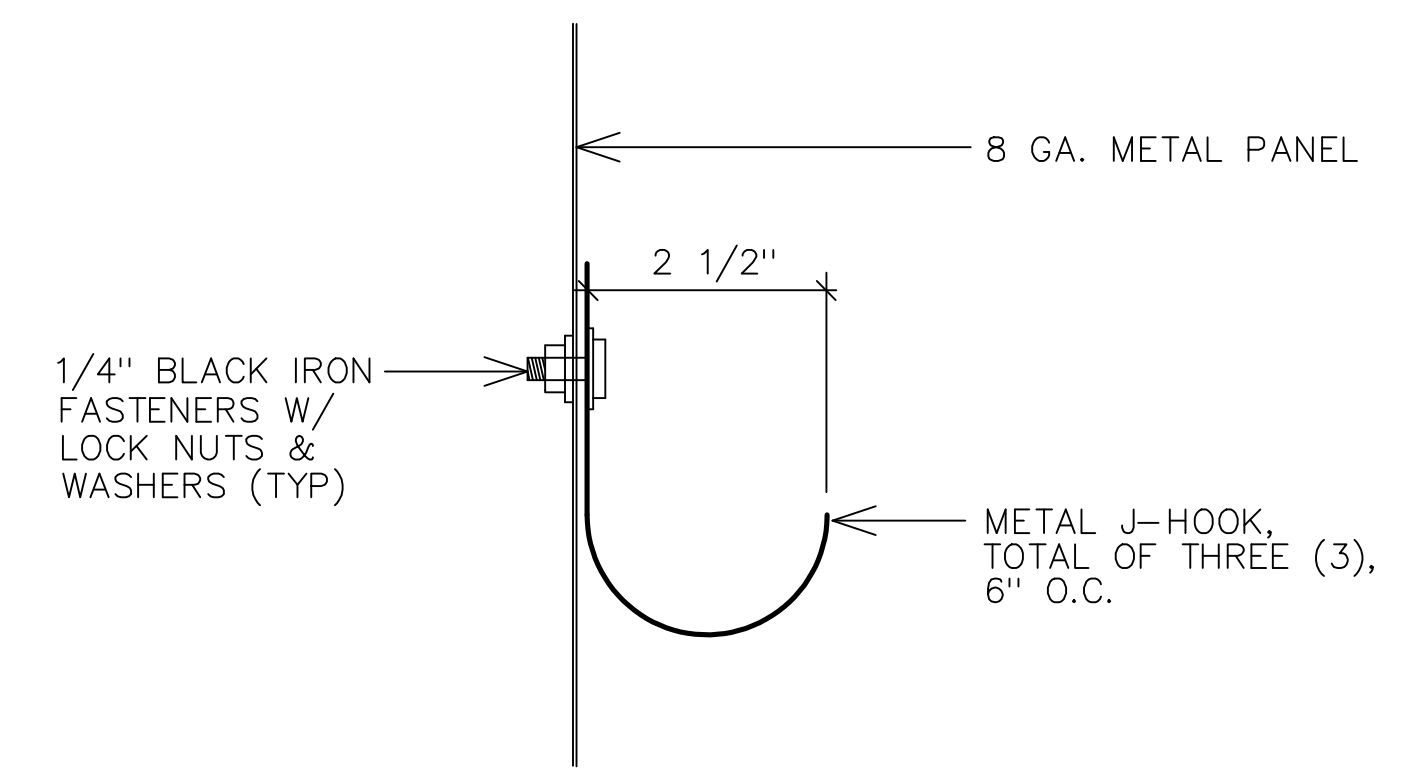
1904

A9

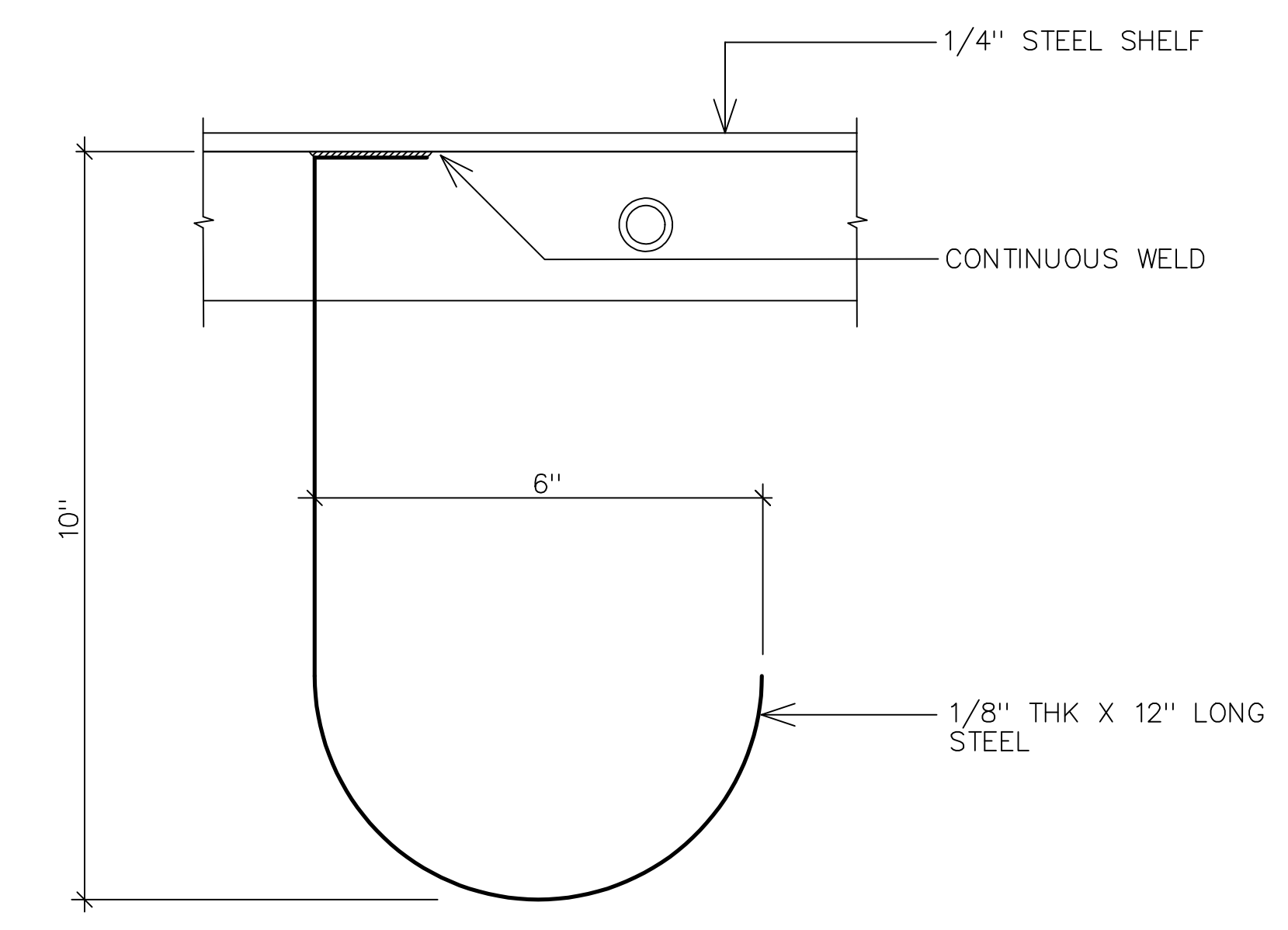
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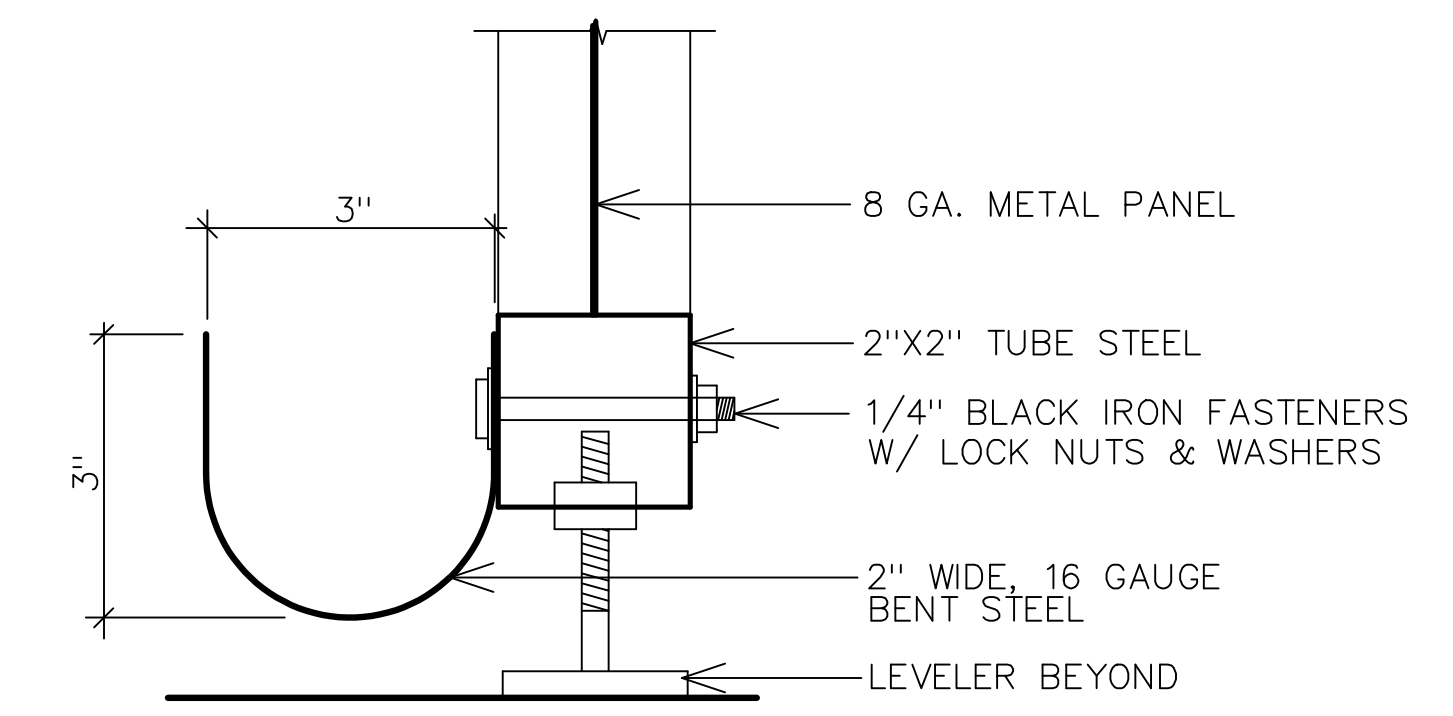
1
A10 U-CLAMP DETAIL
6"=1'-0"



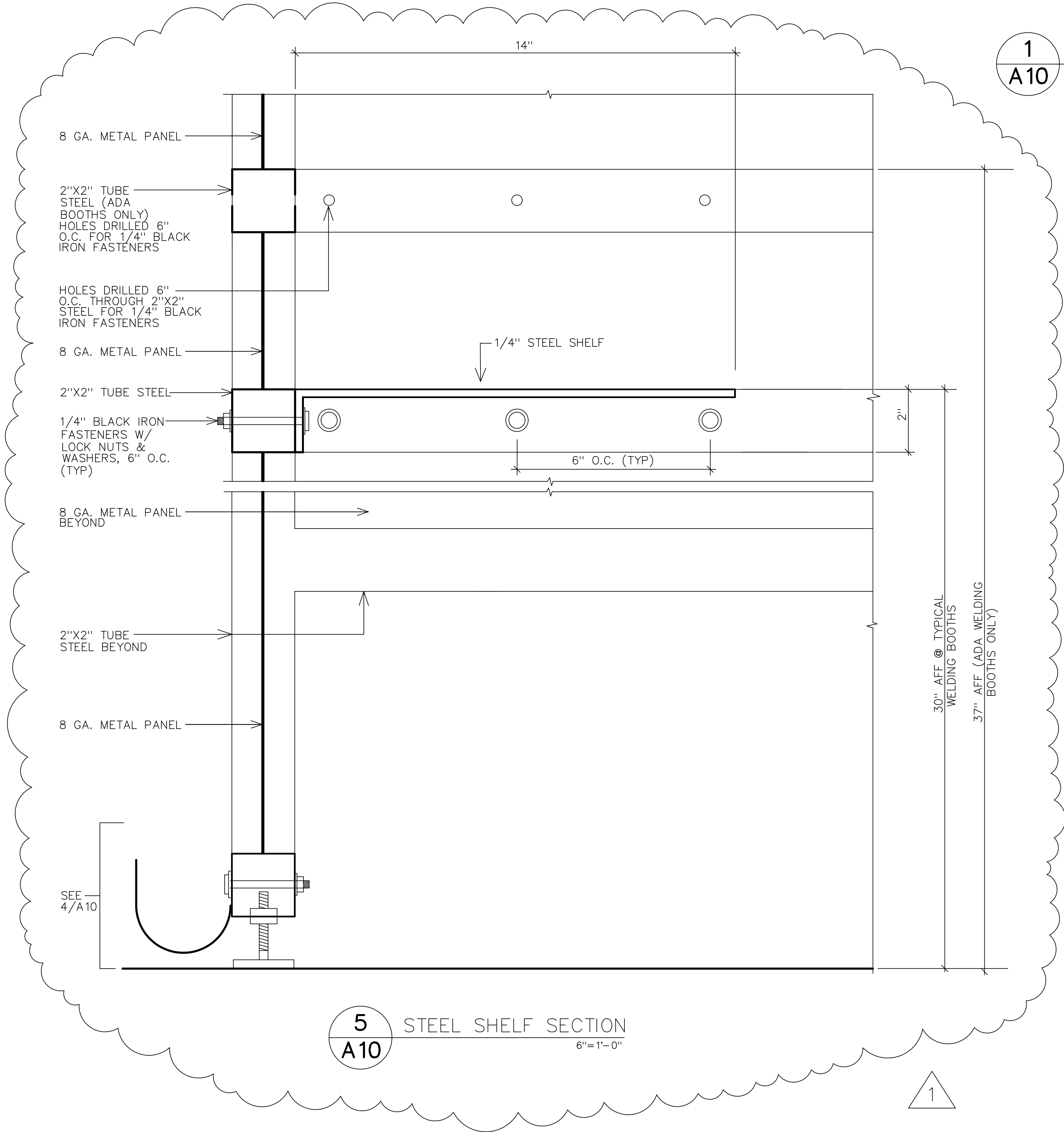
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A10 J-HOOK DETAIL
6"=1'-0"



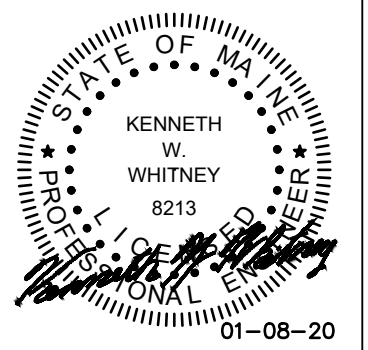
3
A10 PIPE JIG HANGAR DETAIL
6"=1'-0"



4
A10 CABLE HOOK DETAIL
6"=1'-0"



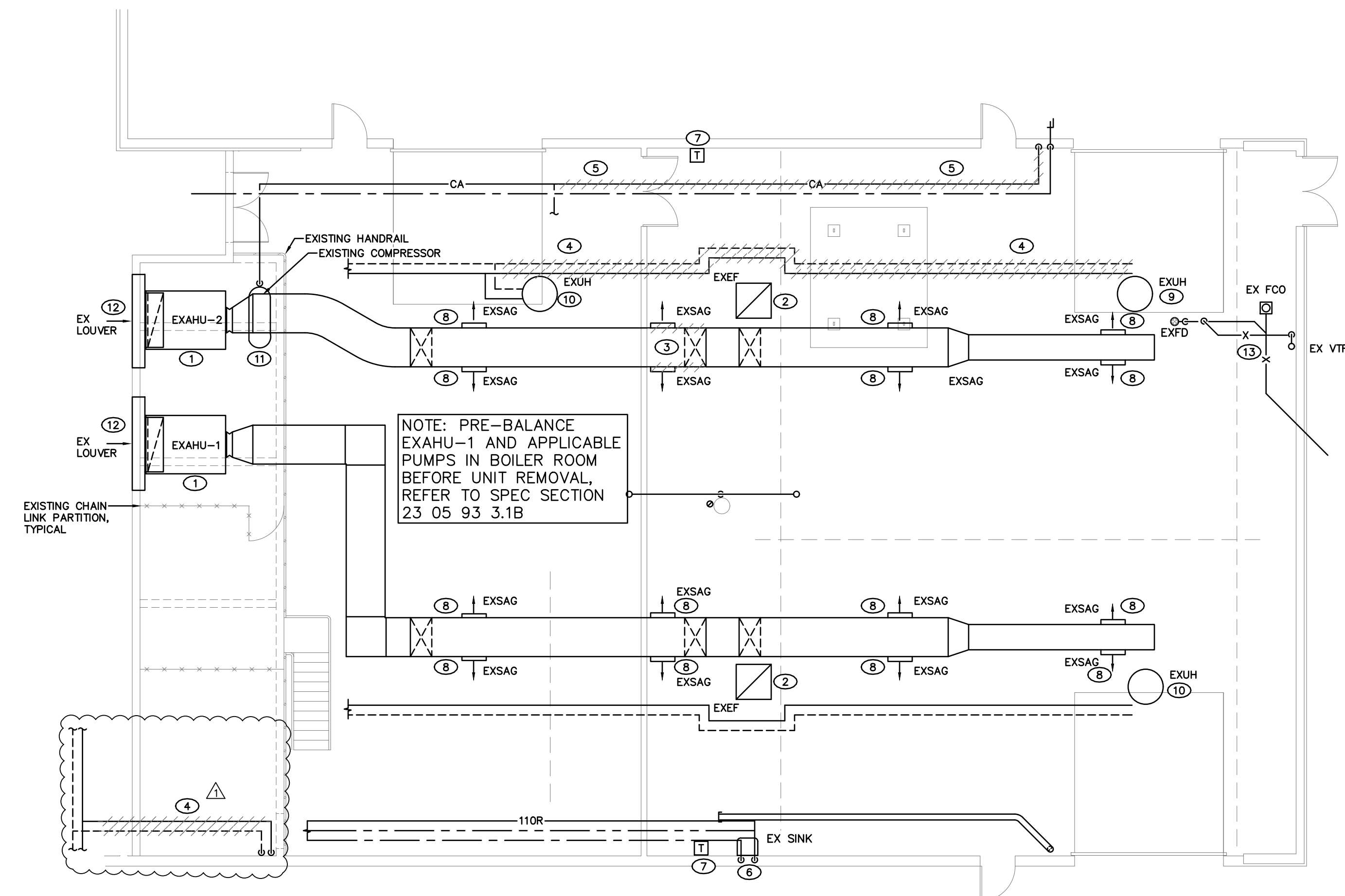
5
A10 STEEL SHELF SECTION
6"=1'-0"



CONSTRUCTION DRAWINGS

DATE: 08JAN2020

REV	DATE
1	29JAN2020



NOTE: PRE-BALANCE EXAHU-1 AND APPLICABLE PUMPS IN BOILER ROOM BEFORE UNIT REMOVAL, REFER TO SPEC SECTION 23 05 93 3.1B

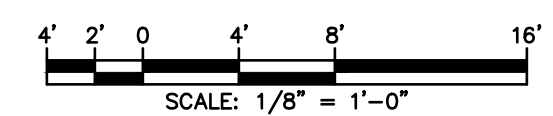
MECHANICAL REMOVALS PLAN

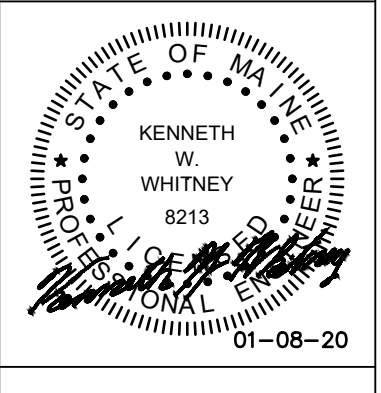
MECHANICAL DEMOLITION NOTES

- IN GENERAL, HVAC EQUIPMENT IS TO REMAIN UNLESS NOTED OTHERWISE. ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER OR DISCARDED AS DIRECTED BY THE OWNER.
- ① AIR HANDLING UNIT TO BE REPLACED WITH NEW UNIT. MODIFY OA, RA AND SA DUCTS AND HWS/R PIPING AS REQUIRED TO CONNECT TO NEW UNIT.
 - ② EXHAUST FAN TO BE REPLACED WITH NEW UNIT. CURB TO REMAIN.
 - ③ DUCTWORK TO BE REMOVED AS INDICATED. CAP DUCT FROM EXHAU-2, REFER TO PROPOSED.
 - ④ HWS/R PIPING TO BE REMOVED AS INDICATED. CAP AT EXUH.
 - ⑤ COMPRESSED AIR PIPING TO BE REMOVED AS INDICATED. CAP AT MAIN. VERIFY NO OTHER BRANCHES ON THE LINE SERVING THE NEW WELDING LAB ROOM.
 - ⑥ SINK TO BE REMOVED, W&V TO REMAIN FOR NEW FLOOR DRAIN. COLD WATER LINE TO BE REUSED FOR PLASMA CUTTER & TRAP PRIME. REMOVE HOT WATER DROP AND CAP.
 - ⑦ THERMOSTAT TO BE REMOVED.
 - ⑧ GRILLE / DIFFUSER TO BE REMOVED. CAP DUCT.
 - ⑨ UNIT HEATER TO BE REMOVED.
 - ⑩ UNIT HEATER TO BE REPLACED.
 - ⑪ COMPRESSOR TO REMAIN IN USE FOR PMT LAB.
 - ⑫ REMOVE LOUVER AND REPLACE WITH GOOSENECK TO MINIMIZE SNOW ENTRAINMENT.
 - ⑬ FLOOR DRAIN AND W&V PIPING TO REMAIN.

KVCC WHITNEY WING RENOVATION
 FAIRFIELD, MAINE
 MECHANICAL REMOVALS PLANS

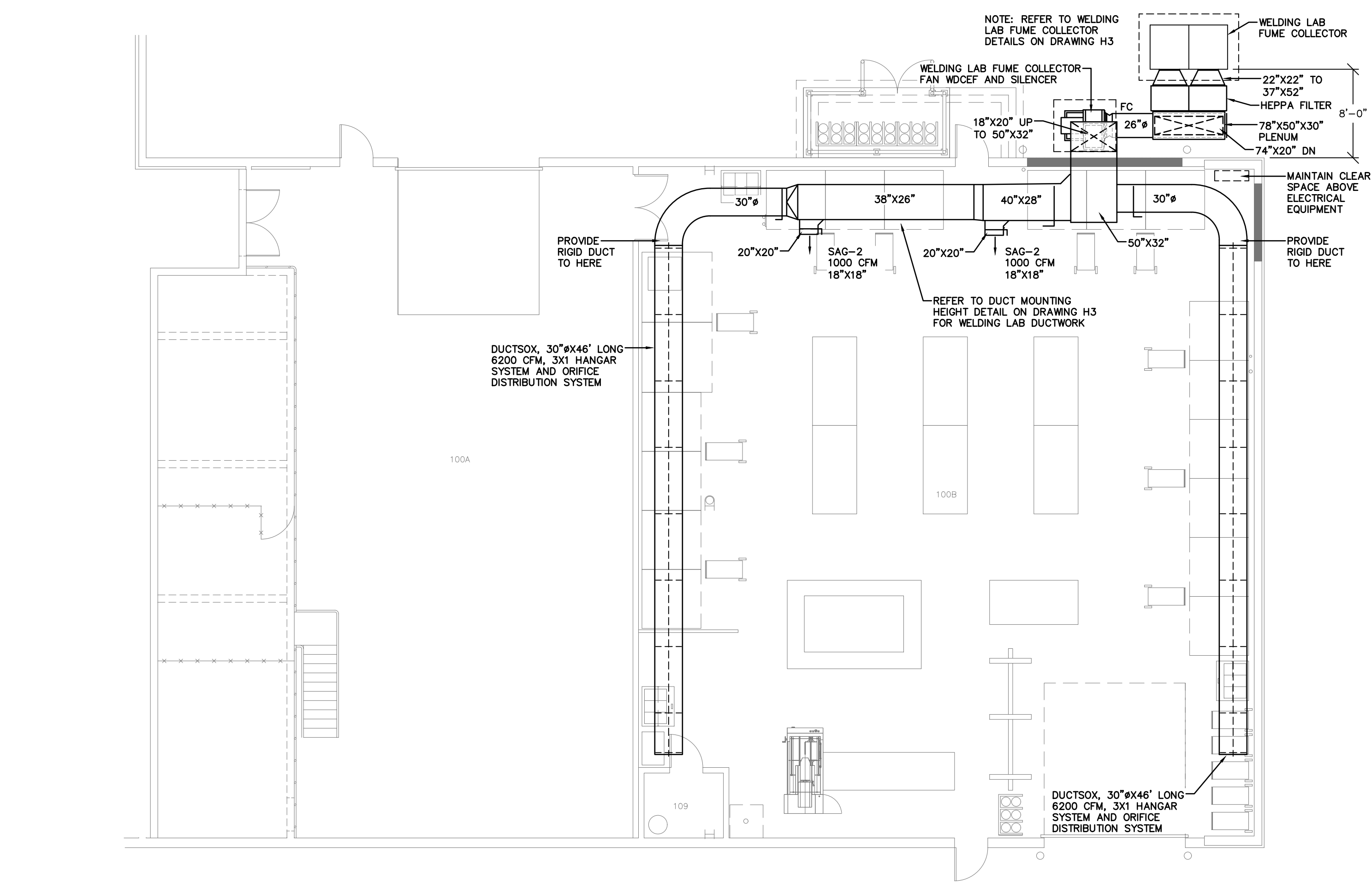
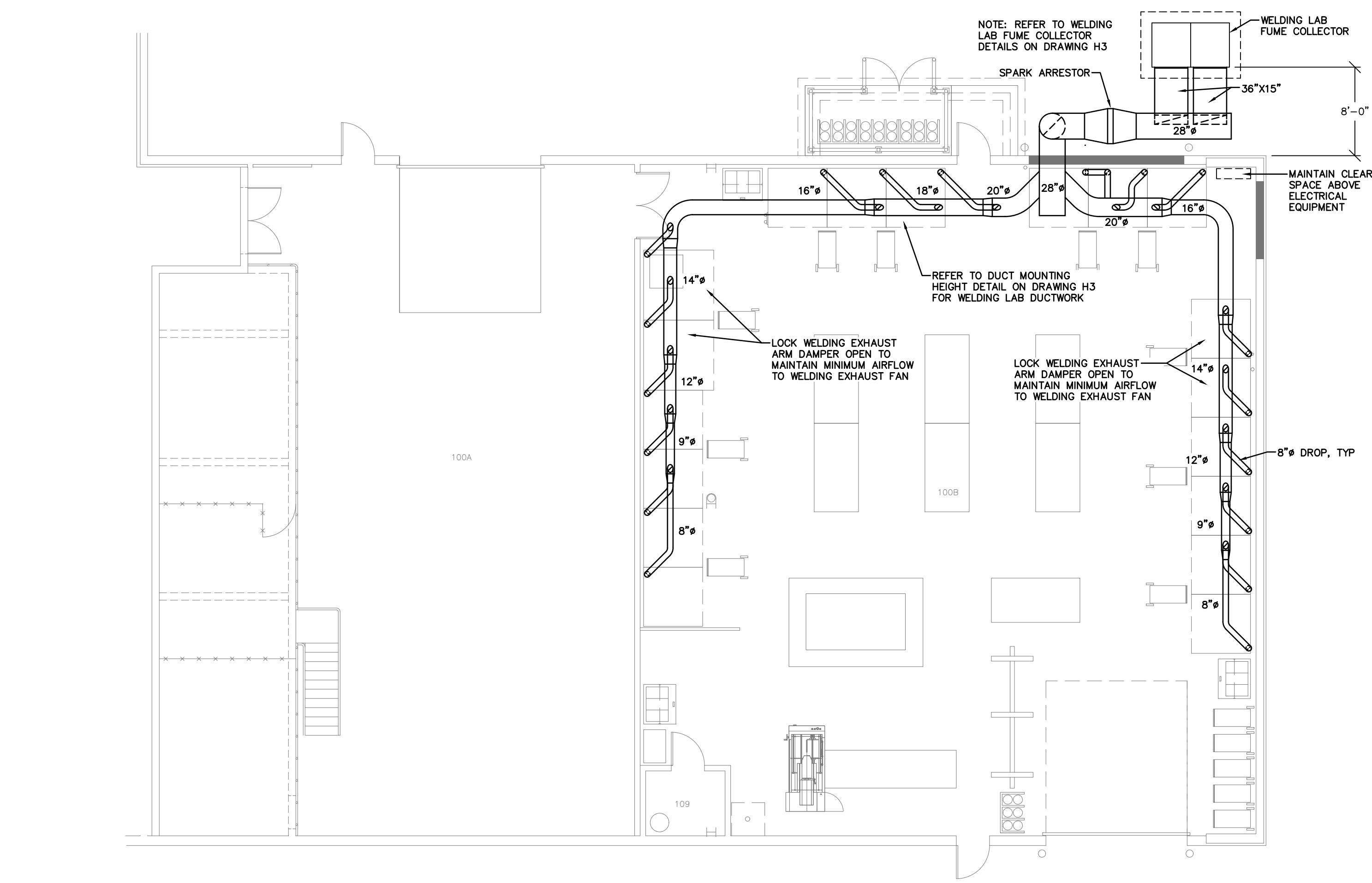
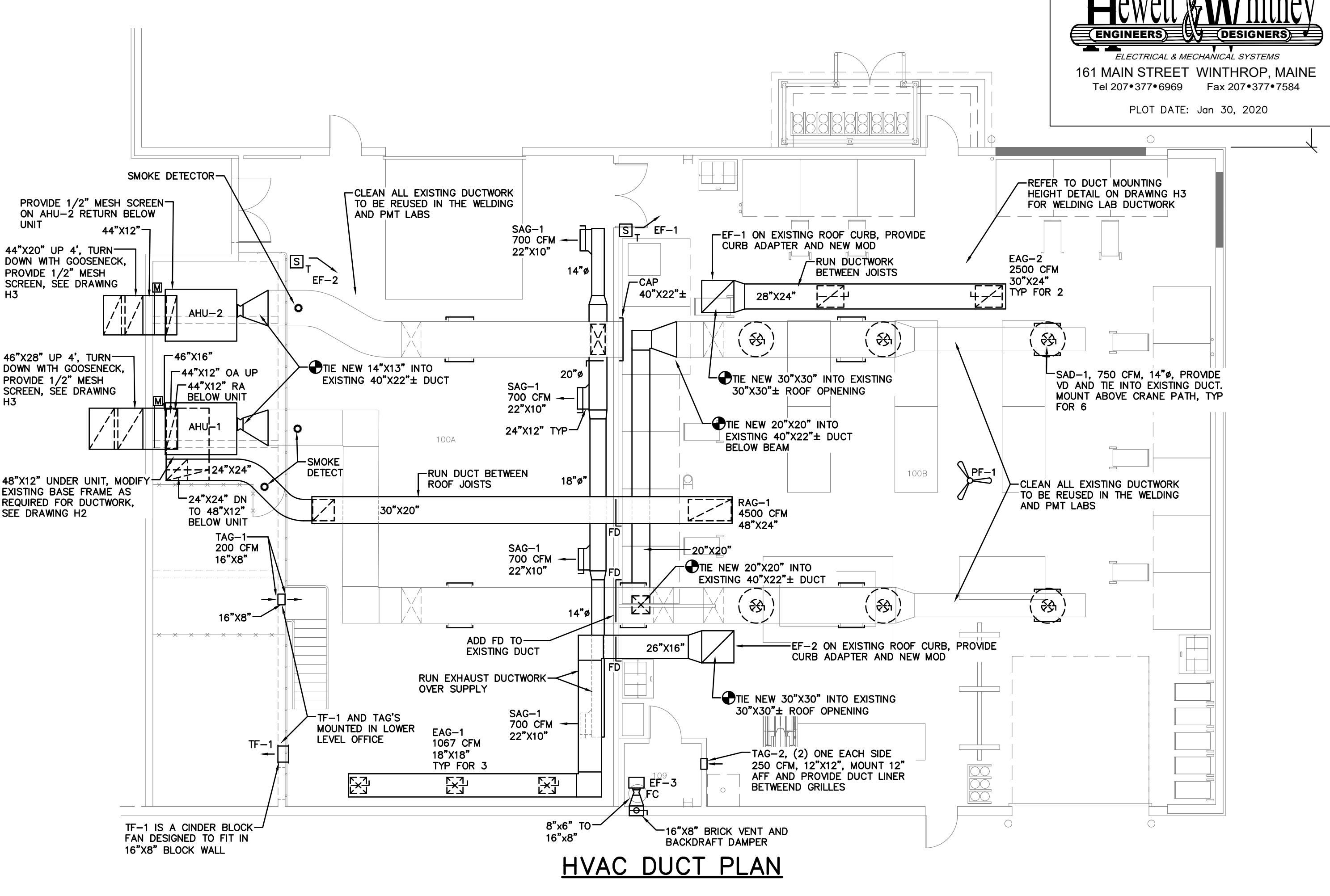
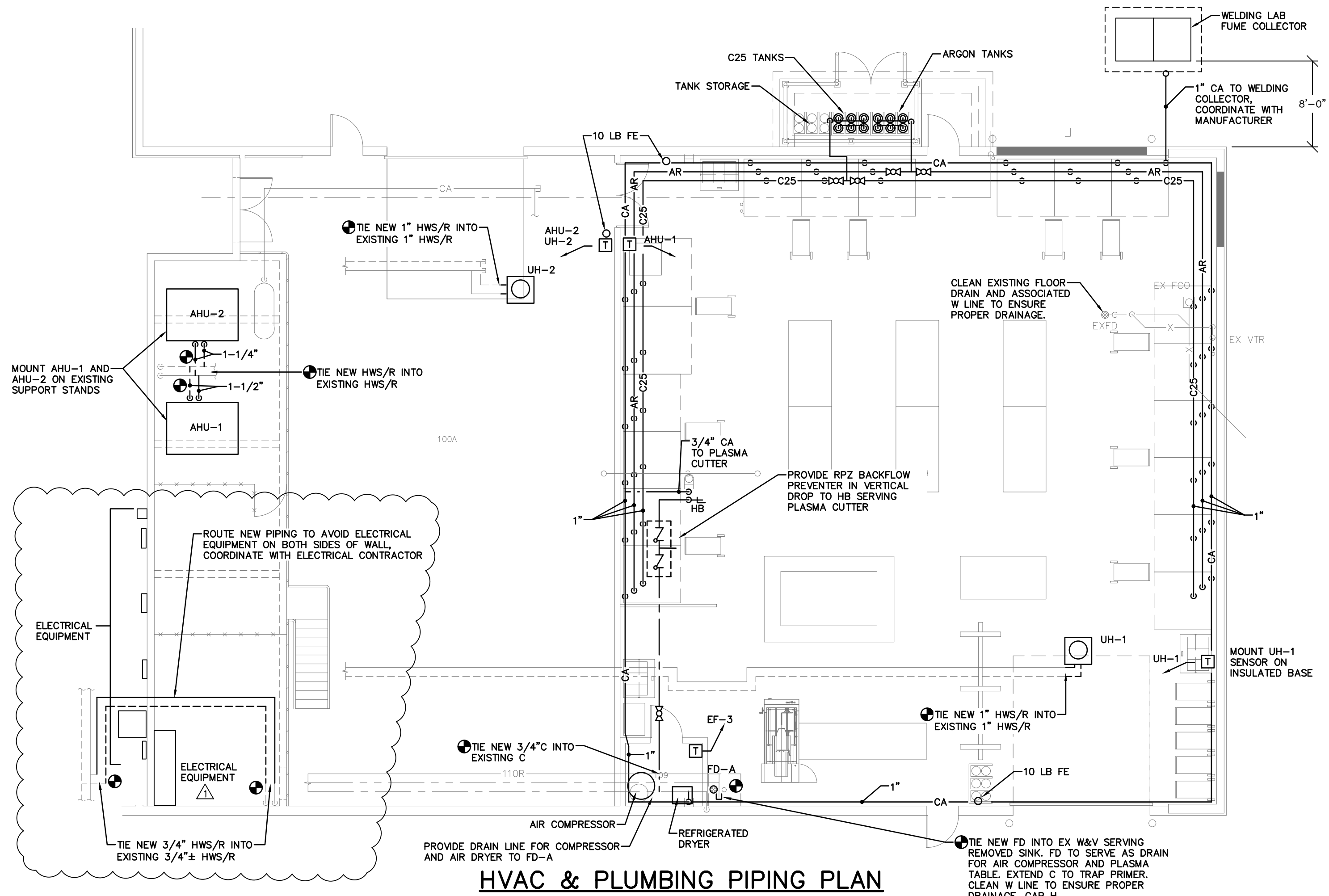
1904
 MD1





CONSTRUCTION DRAWINGS

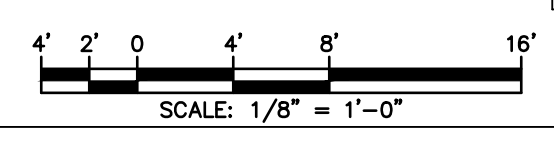
DATE:	08JAN2020
REV	DATE
1	29JAN2020

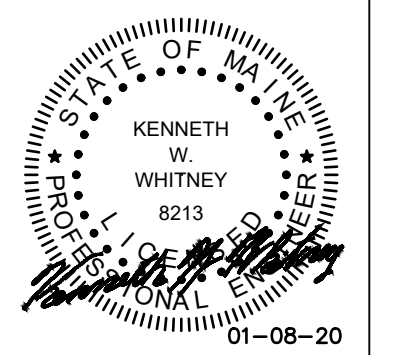


KVCC WHITNEY WING RENOVATION
 FAIRFIELD, MAINE
 HVAC PIPING & DUCTWORK PLANS

1904

H1

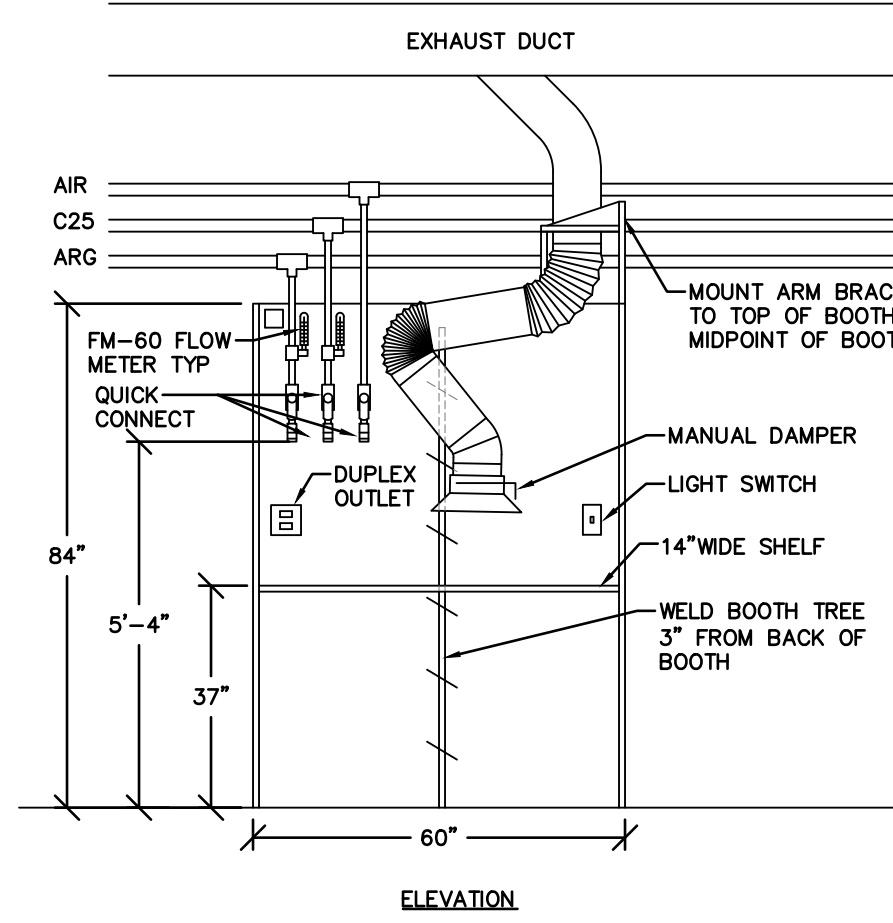




CONSTRUCTION DRAWINGS

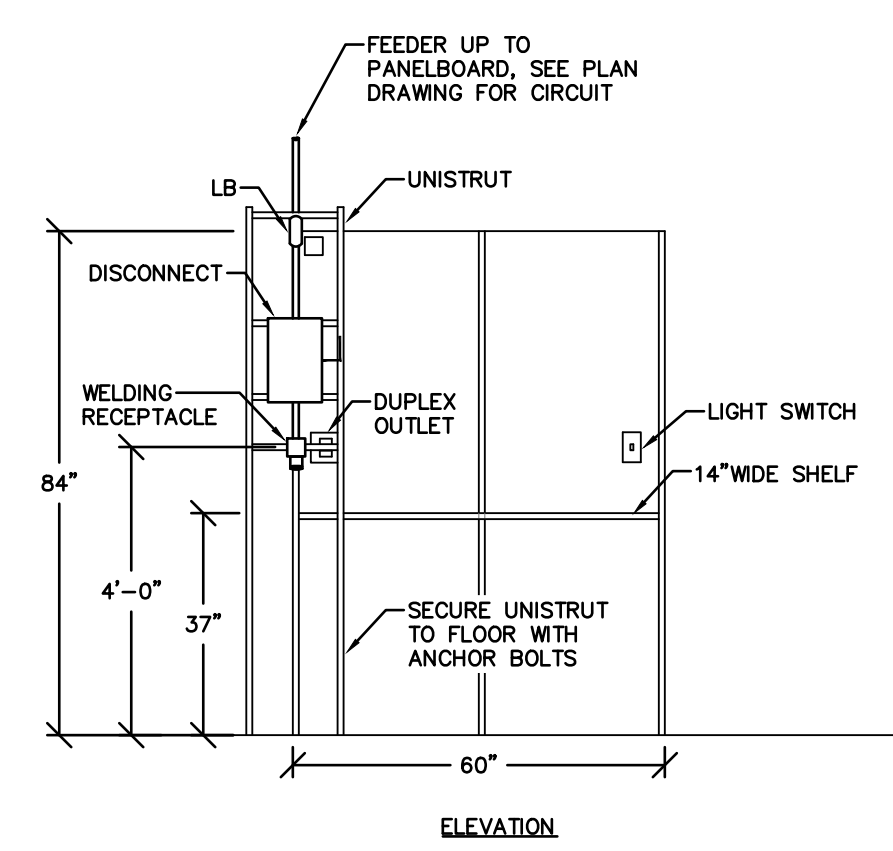
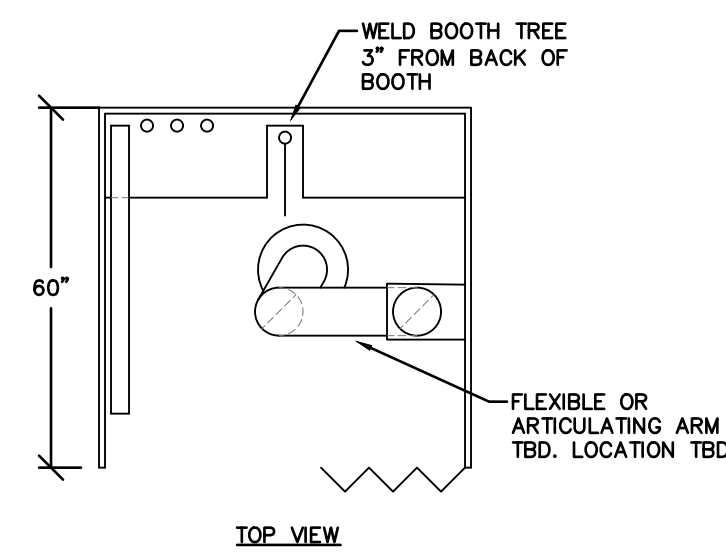
DATE: 08JAN2020

REV	DATE
1	29JAN2020



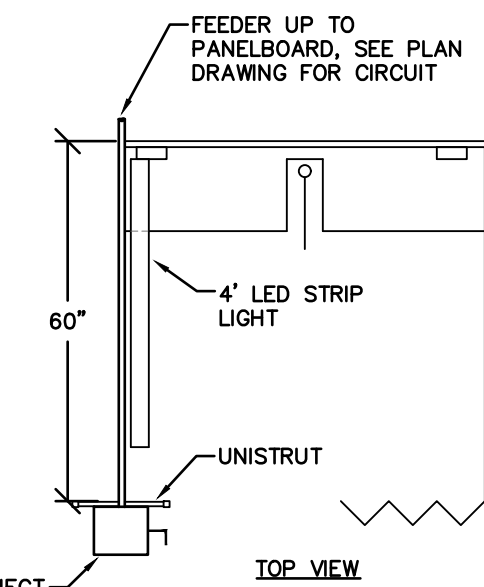
WELDING BOOTH MECHANICAL LAYOUT - 5' X 5'

- NTS
NOTES:
1. PROVIDE 3 SIDED UNIT WITH CURTAIN
 2. ADA BOOTHS TO BE 6' X 6', SHELF AT 30" AFF WITH SWITCHES AND QUICK CONNECTS LOCATED AT ADA HEIGHT
 3. SEE ARCHITECTURAL DRAWING A9 FOR WELDING BOOTH DETAILS



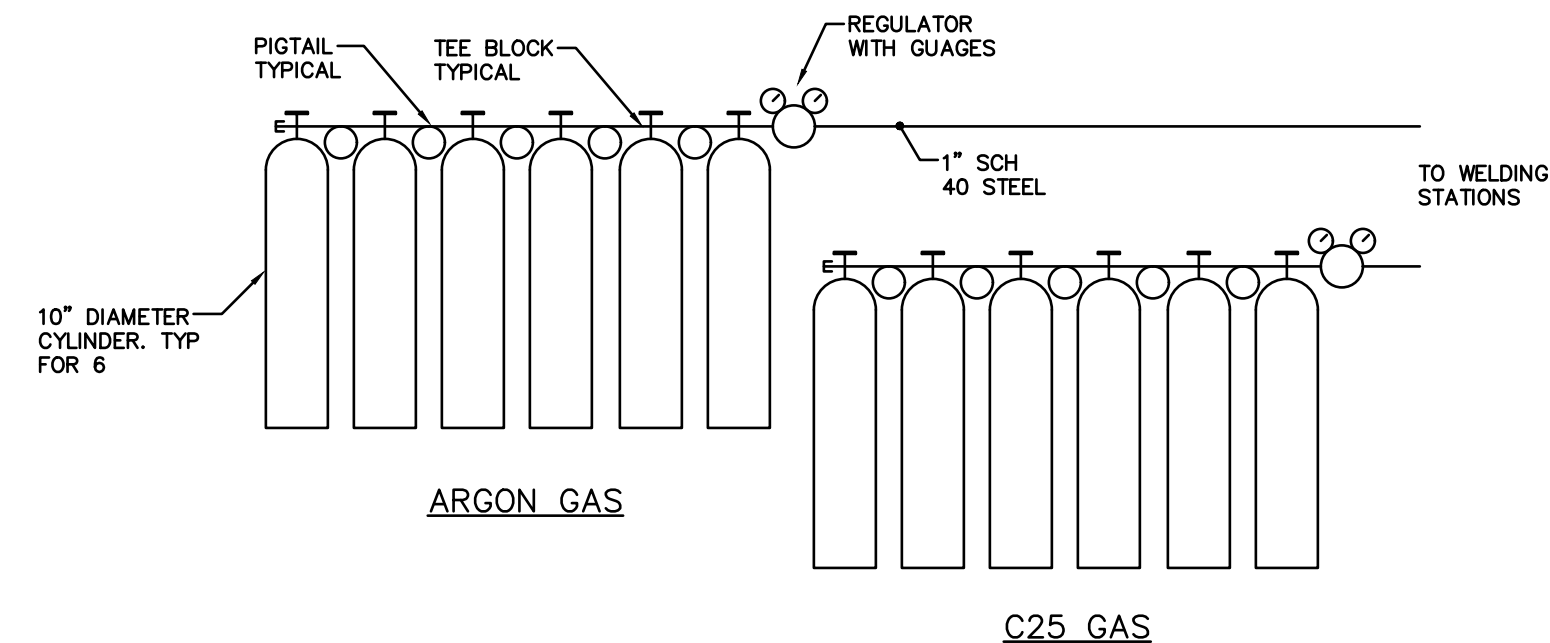
WELDING BOOTH ELECTRICAL LAYOUT - 5' X 5'

- NTS
NOTES:
1. IN ADA BOOTHS: PROVIDE DATA JACK AND ADDITIONAL DUPLEX RECEPTACLE ABOVE LIGHT SWITCH, MOUNTED 6'-0" AFF. FOR SIMULATOR.



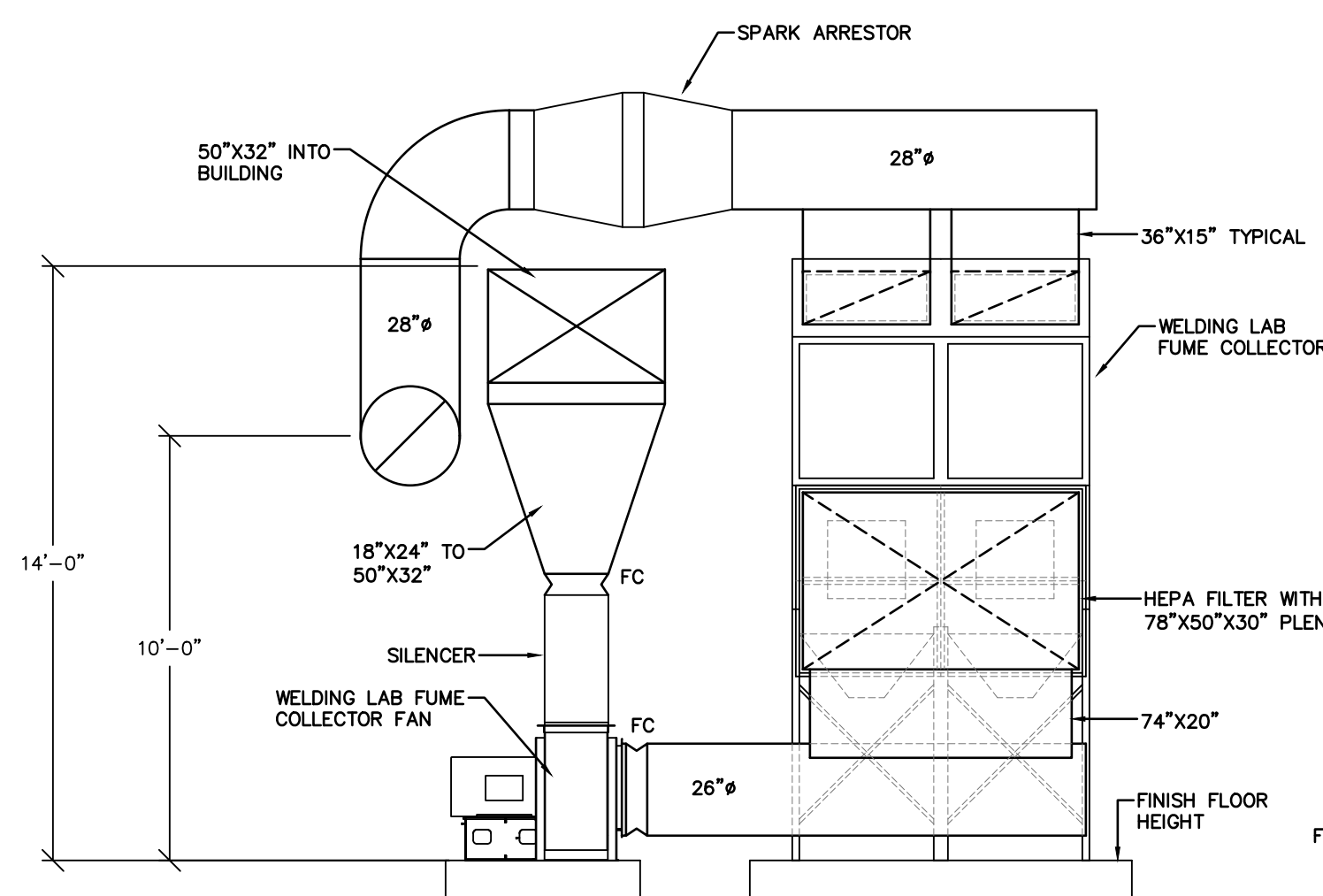
PLUMBING LEGEND

---	SANITARY SOIL OR WASTE - ABOVE FLOOR
-X-	SANITARY SOIL OR WASTE - UNDER FLOOR
----	VENT
RL	ROOF LEADER
-X-RL	UNDERFLOOR ROOF LEADER
----	110° HOT WATER LINE
---110R	110° HOT WATER RECIRCULATION LINE
----	140° HOT WATER LINE
---140R	140° HOT WATER RECIRCULATION LINE
----	160° HOT WATER LINE
---160R	160° HOT WATER RECIRCULATION LINE
----	CONDENSATE DRAIN
-X-GR	UNDERFLOOR GREASE WASTE
----	COLD WATER
G	GAS LINE
----	PIPE SIZE / SLOPE PER FOOT
---	PIPE RISER
----	PIPE DROP
----	UNION
---	GATE VALVE
---	CHECK VALVE
---	BALL VALVE
---	BALANCING VALVE (BV)
---	GAS PLUG VALVE
---	PUMP
---	THERMOMETER/THERMOWELL
---	PRESSURE GAGE WITH SHUT-OFF COCK
---	SPRINKLER
---	PRESSURE RELIEF VALVE
---	FLOOR DRAIN
---	HOSE BIBB (HB)
---	NON-FREEZE WALL HYDRANT (NFWH)
---	TIE INTO EXISTING SYSTEM
---	EXISTING EQUIPMENT TO BE REMOVED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CD	CONDENSATE DRAIN
CO	CLEANOUT
EX	EXISTING EQUIPMENT
FCO	FLOOR CLEANOUT
FE	FIRE EXTINGUISHER - WEIGHT (LB)
H & C	HOT AND COLD
INV	INVERT ELEVATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
SA	SHOCK ABSORBER
VTR	VENT THROUGH ROOF
W & V	WASTE AND VENT
WCO	WALL CLEANOUT

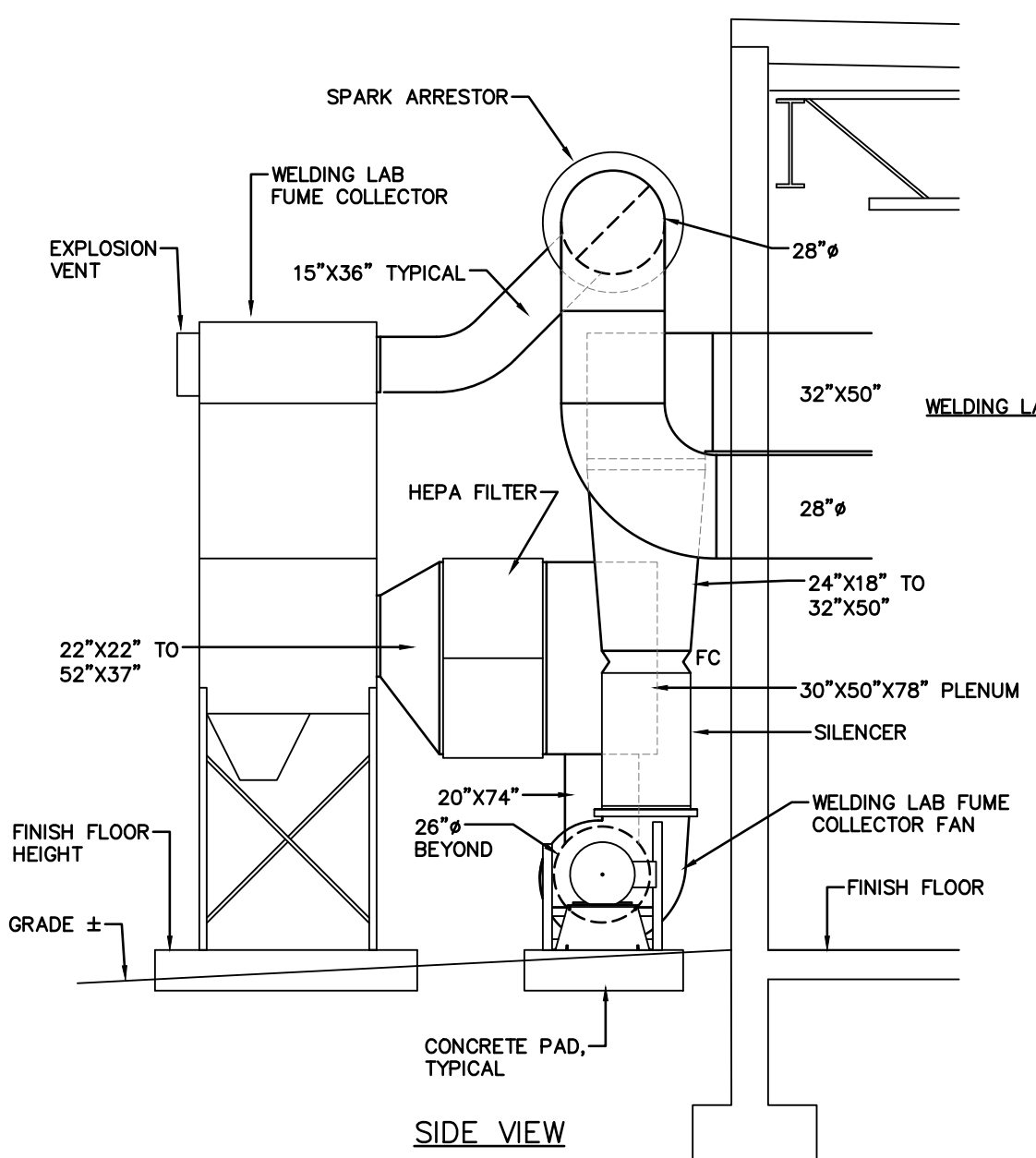


WELDING GAS DETAIL

- NTS
NOTES:
1. DETAIL IS FOR GENERAL REFERENCE PURPOSES ONLY. WELDING GAS SUPPLIER SHALL PROVIDE A COMPLETE SYSTEM INCLUDING ALL SPECIALTIES AND PIPING AS REQUIRED.
 2. PROVIDE (6) 10" DIAMETER X 60" H CYLINDERS LOCATED OUTDOORS FOR EACH GAS
 3. SIZE AND CONFIGURATION TYPICAL FOR BOTH GASES



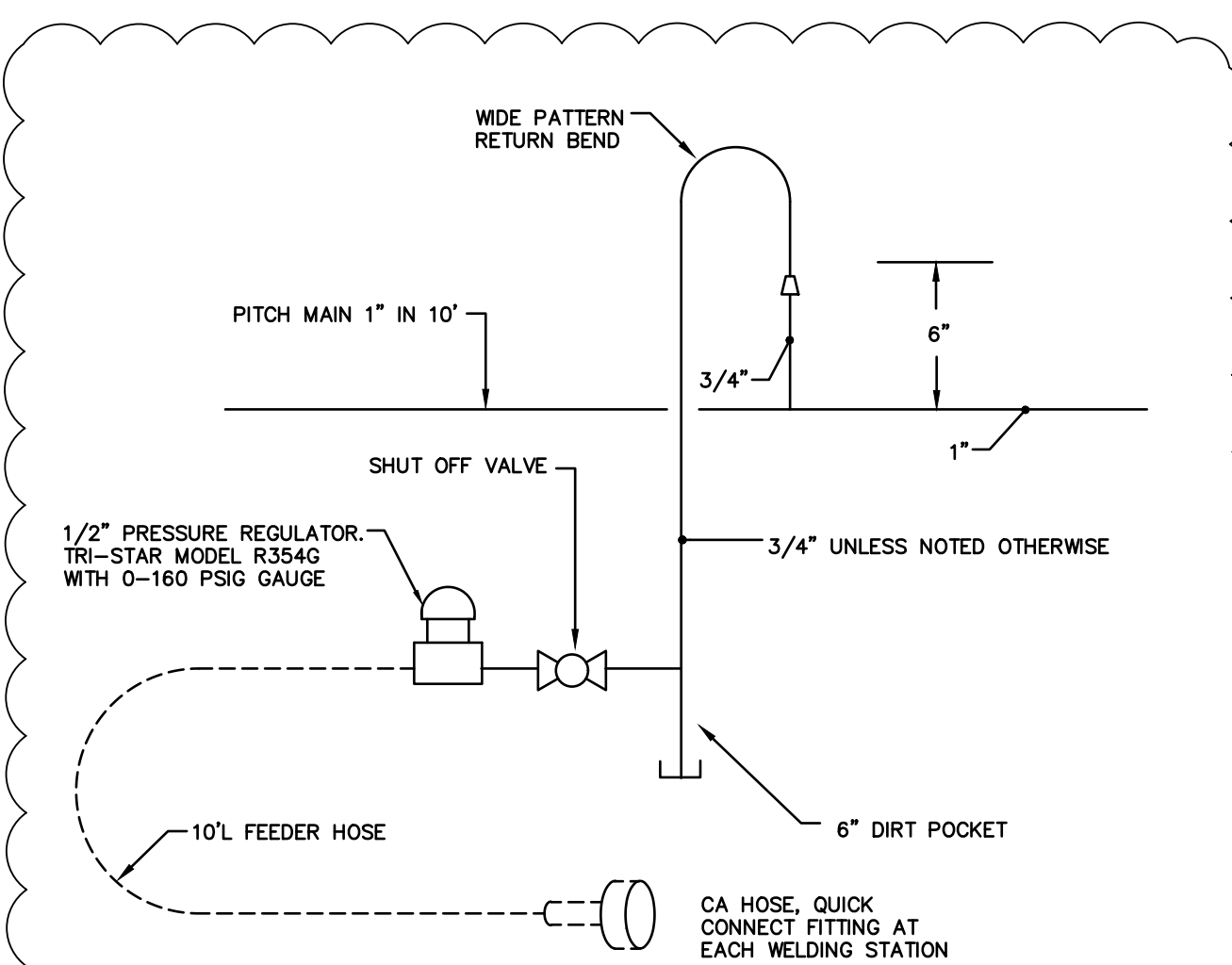
BUILDING FACING SIDE VIEW



SIDE VIEW

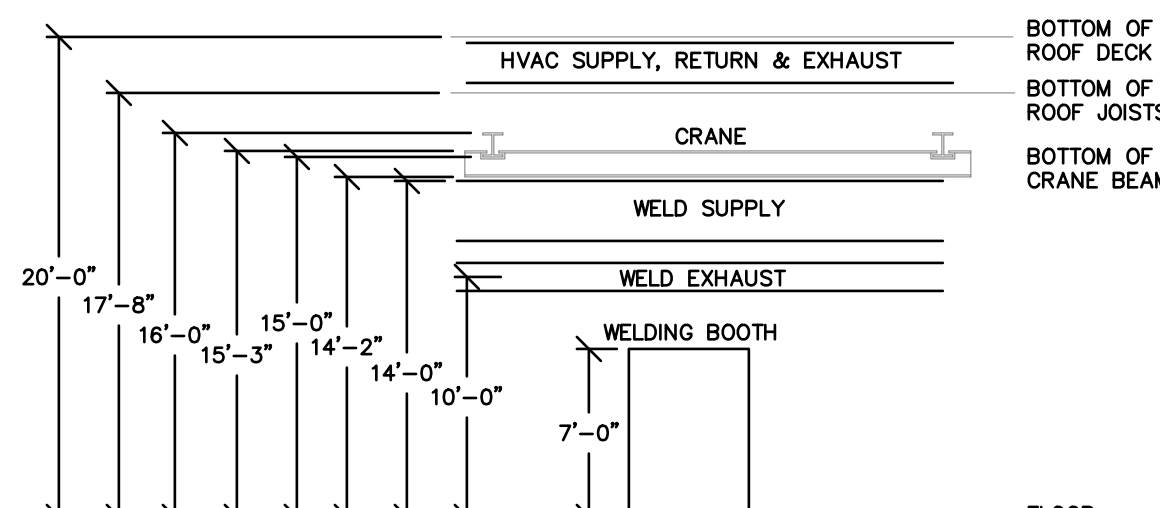
WELDING LAB FUME COLLECTOR DETAILS

- NOTES:
1. REFER TO SPEC SECTION 23 35 16



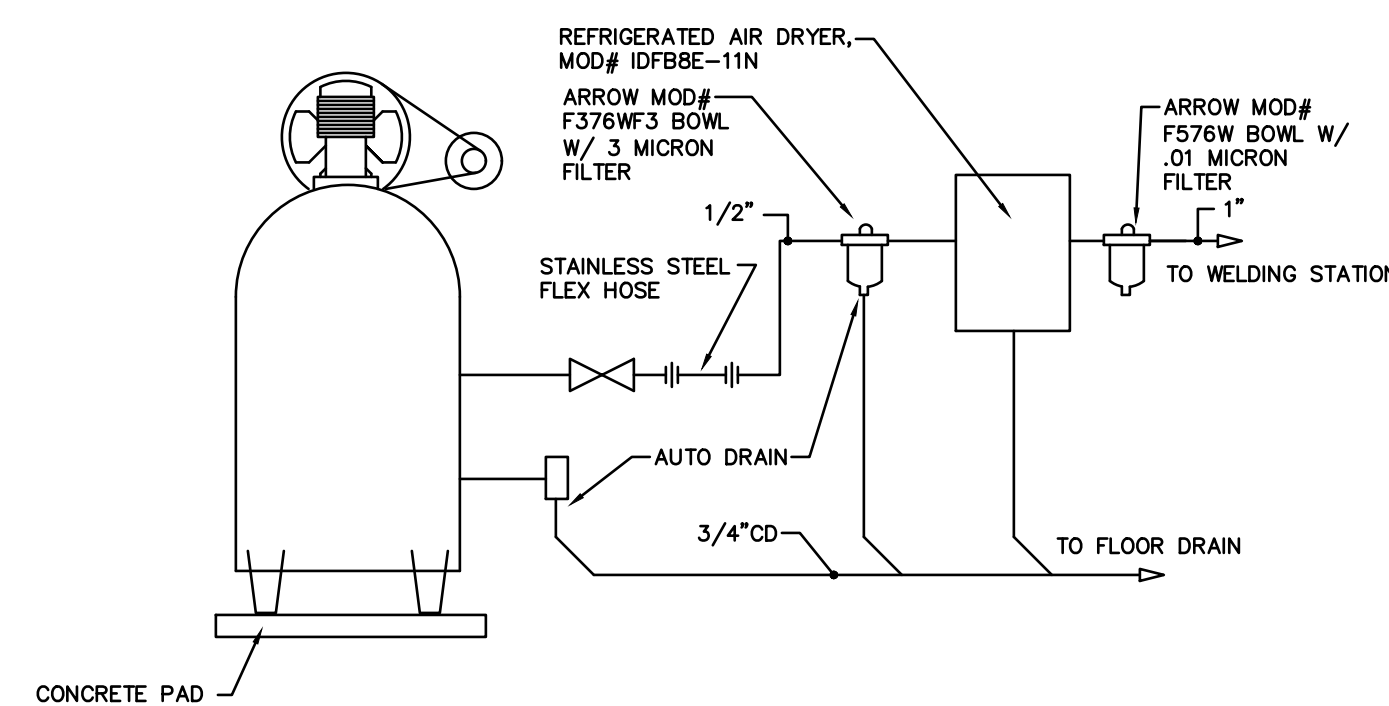
COMPRESSED AIR BRANCH MAIN DETAIL

- NTS
NOTES:
1. DETAIL TYPICAL FOR 18 WELDING STATIONS AND THE PLASMA CUTTER.
 2. WELDING COLLECTOR TO HAVE 1" AIR LINE WITH SIMILAR ARRANGEMENT
 3. COORDINATE CONNECTION REQUIREMENTS WITH WELDING FUME COLLECTOR AND PLASMA CUTTER



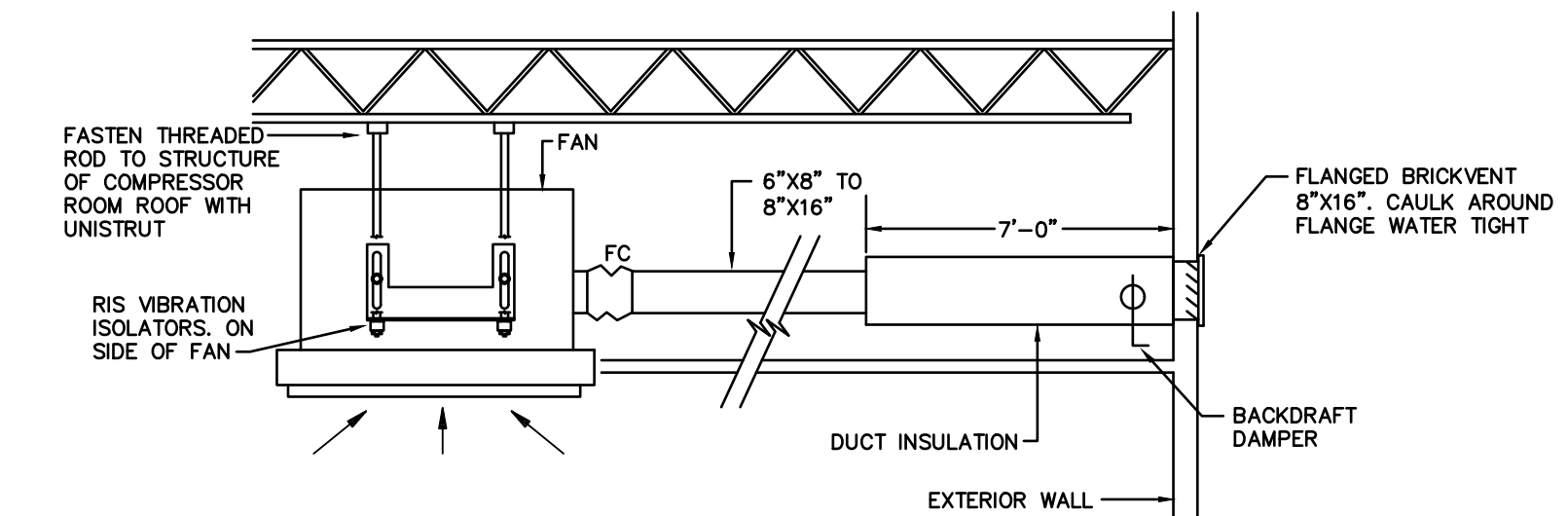
DUCT MOUNTING HEIGHT DETAIL

- NOT TO SCALE
NOTES:
1. DETAIL INDICATES APPROXIMATE HEIGHTS OF DUCTWORK WITHIN THE WELDING LAB



COMPRESSOR PIPING DETAIL

- NO SCALE
NOTES:
1. QUINCY QT SERIES VERTICAL COMPRESSOR, MODEL QT-10, PART# 2103012VCB23M, QT MAX PACKAGE. 10HP UNIT, 480/3.
 2. REFER TO DRAWING H1 FOR COMPRESSED AIR PIPING LAYOUT
 3. REFER TO SPEC SECTION 22 15 00



CEILING FAN DETAIL

- NTS
NOTES:
1. TYPICAL MOUNTING ARRANGEMENT FOR EF-3

KVCC WHITNEY WING RENOVATION
FAIRFIELD, MAINE
HVAC DETAILS

1904

H3

ELECTRICAL DEMOLITION GENERAL NOTES

1. REMOVE EXISTING WIRING FROM REMOVED MECHANICAL EQUIPMENT BACK TO PANELBOARD. COORDINATE WITH MECHANICAL CONTRACTOR. IF REQUIRED, MAINTAIN CIRCUIT FOR OTHER ELECTRICAL. IF CIRCUIT BREAKER SUPPLIES NO OTHER LOADS, INDICATE AS "SPARE" ON CIRCUIT LIST.
2. REMOVE CONTROL PANELS, STARTERS, DISCONNECTS AND RELATED WIRING FOR ALL ELIMINATED MECHANICAL EQUIPMENT.

GENERAL NOTES

1. THIS PLAN HAS BEEN COMPILED FROM FIELD OBSERVATIONS AND OWNER SUPPLIED DRAWINGS. FIELD VERIFY ALL CONDITIONS AND OBSERVE NECESSARY SAFETY PRECAUTIONS BEFORE DOING ANY WORK.
2. RUN SURFACE WIRING AS INCONSPICUOUS AS POSSIBLE, IN WALL AND CEILING CORNERS WHERE POSSIBLE, AS INDICATED.
3. IN EVENT ANY UNSAFE WIRING IS ENCOUNTERED, IMMEDIATELY NOTIFY ENGINEER FOR CORRECTIVE ACTION.
4. EXISTING CONDUIT MAY BE RE-USED WHERE POSSIBLE.
5. ALL CONDUITS TO BE MOUNTED BELOW BOTTOM CHORD OF EXISTING TRUSSES.

Hewett & Whitney
ENGINEERS & DESIGNERS
ELECTRICAL & MECHANICAL SYSTEMS
161 MAIN STREET WINTHROP, MAINE
Tel 207•377•6969 Fax 207•377•7584
PLOT DATE: Jan 30, 2020

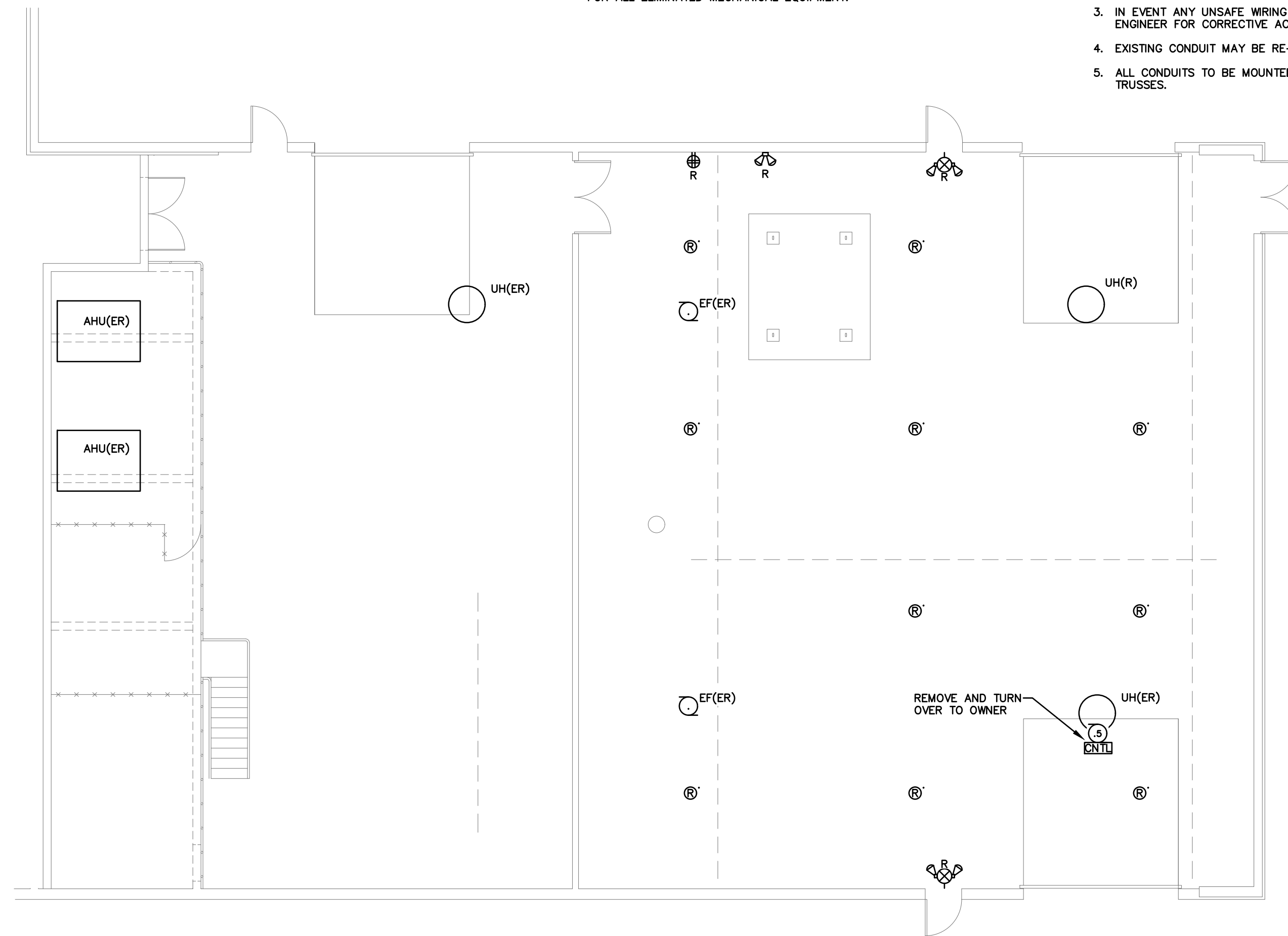
LMA
LEWIS + MALM
ARCHITECTURE
EST. 1983

STATE OF MAINE
COLIN C. HEWETT
8374
LICENSED PROFESSIONAL ENGINEER
01-08-20

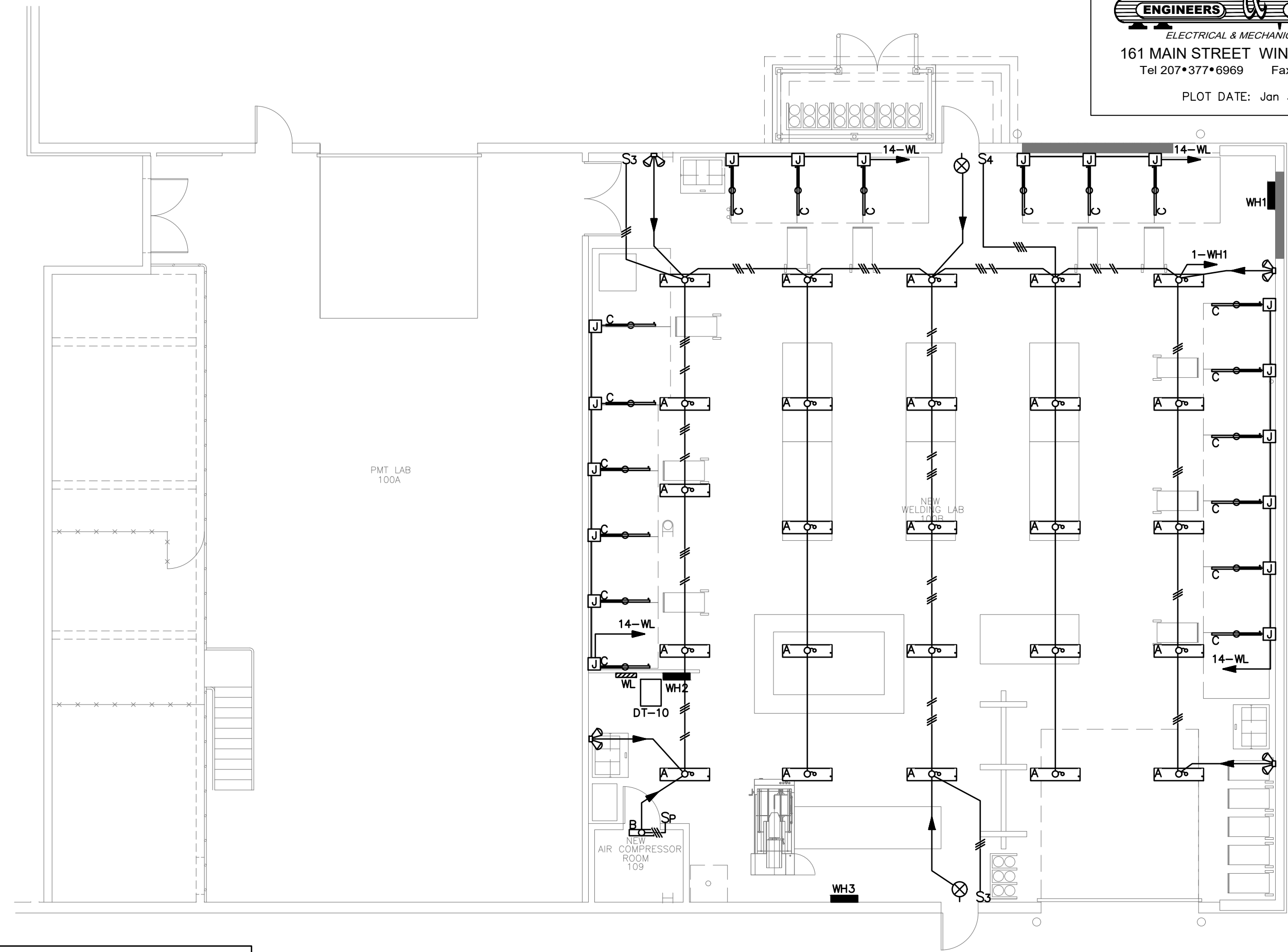
CONSTRUCTION
DRAWINGS

DATE: 08JAN2020

REV	DATE
1	30 JAN 2020



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

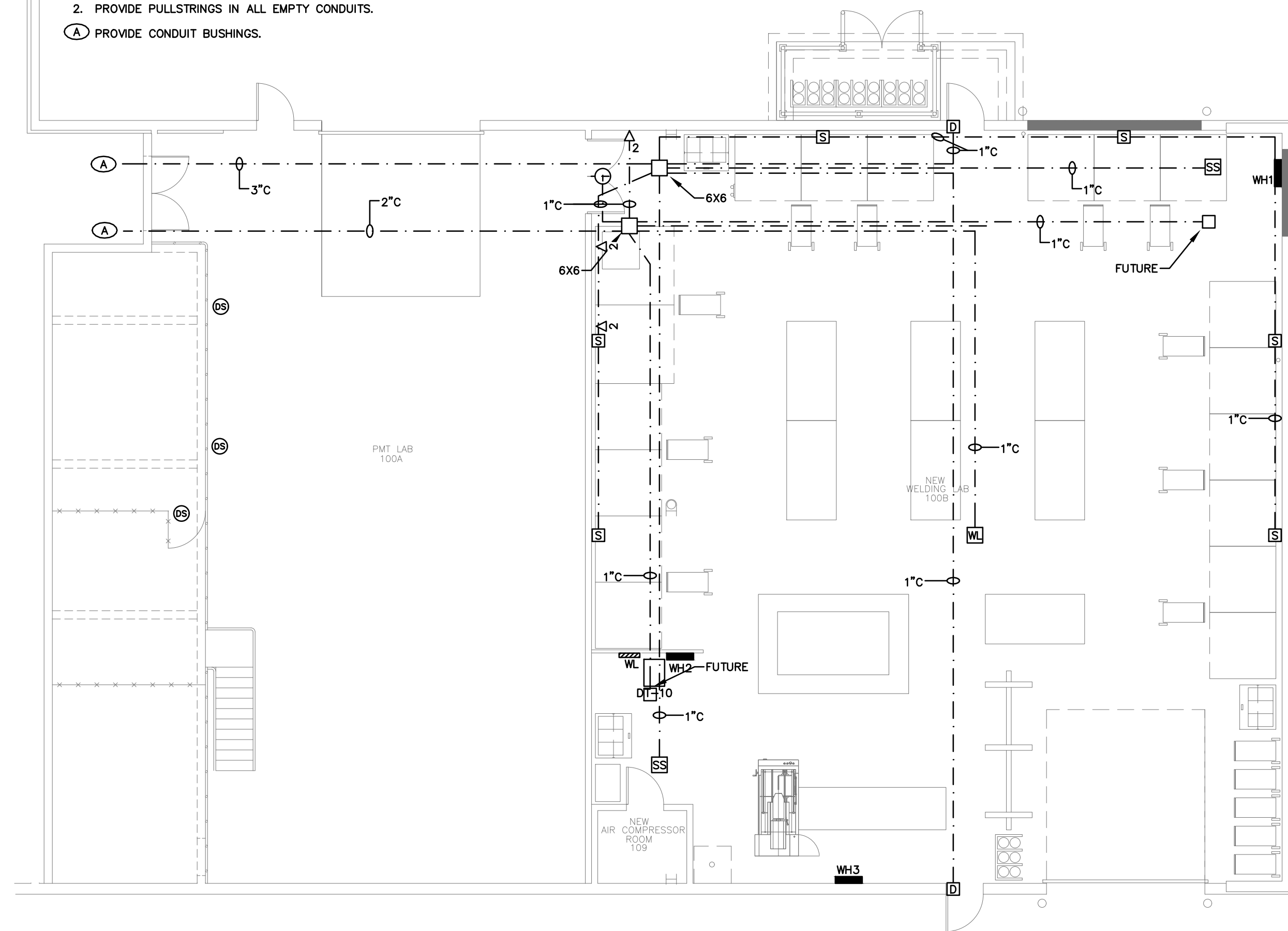


PROPOSED LIGHTING PLAN
SCALE: 1/8" = 1'-0"

PROVIDE CLEAR LABELS WITH BLACK LETTERING INDICATING CIRCUIT/PANEL ON ALL SWITCH PLATES.

SYSTEMS NOTES

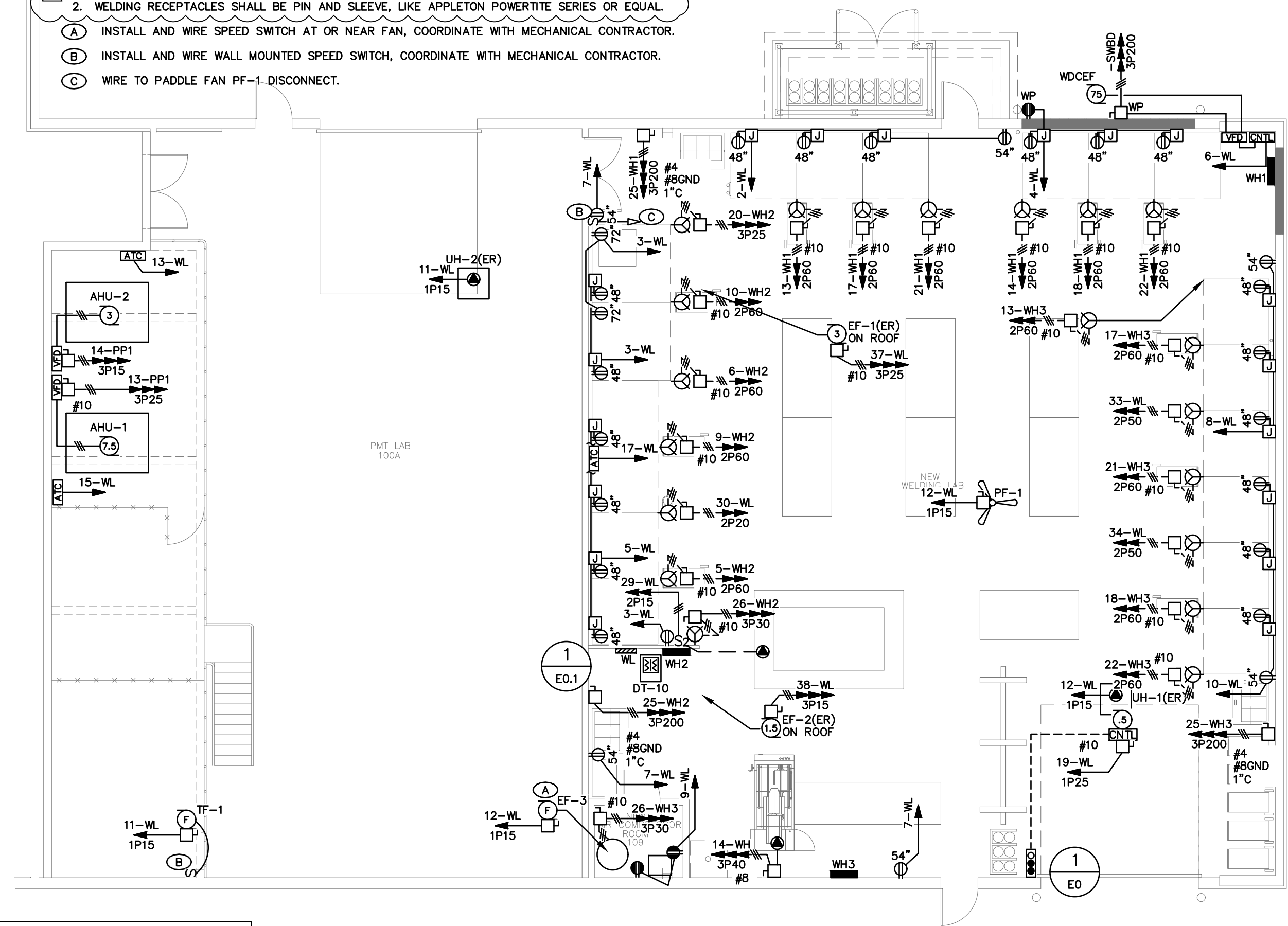
1. COORDINATE WITH OWNER'S IT DEPARTMENT (DON TRASK).
 2. PROVIDE PULLSTRINGS IN ALL EMPTY CONDUITS.
- Ⓐ PROVIDE CONDUIT BUSHINGS.



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

POWER NOTES

1. PAINT ALL SURFACE CONDUIT POWDER-COAT BLACK IN NEW WELDING LAB.
 2. WELDING RECEPTACLES SHALL BE PIN AND SLEEVE, LIKE APPLETON POWERITE SERIES OR EQUAL.
- Ⓐ INSTALL AND WIRE SPEED SWITCH AT OR NEAR FAN, COORDINATE WITH MECHANICAL CONTRACTOR.
Ⓑ INSTALL AND WIRE WALL MOUNTED SPEED SWITCH, COORDINATE WITH MECHANICAL CONTRACTOR.
Ⓒ WIRE TO PADDLE FAN PF-1 DISCONNECT.



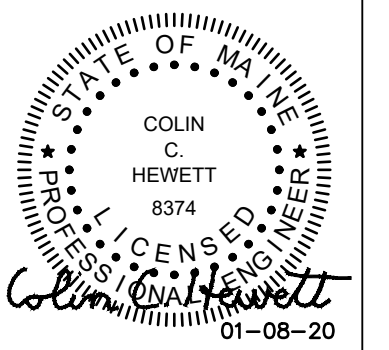
PROPOSED POWER PLAN
SCALE: 1/8" = 1'-0"

PROVIDE CLEAR LABELS WITH BLACK LETTERING INDICATING CIRCUIT/PANEL ON ALL OUTLET RECEPTACLES, DISCONNECTS AND CONTROLLERS.

KVCC WHITNEY WING RENOVATION
FAIRFIELD, MAINE
ELECTRICAL PLAN DRAWINGS

1904

E1



CONSTRUCTION DRAWINGS

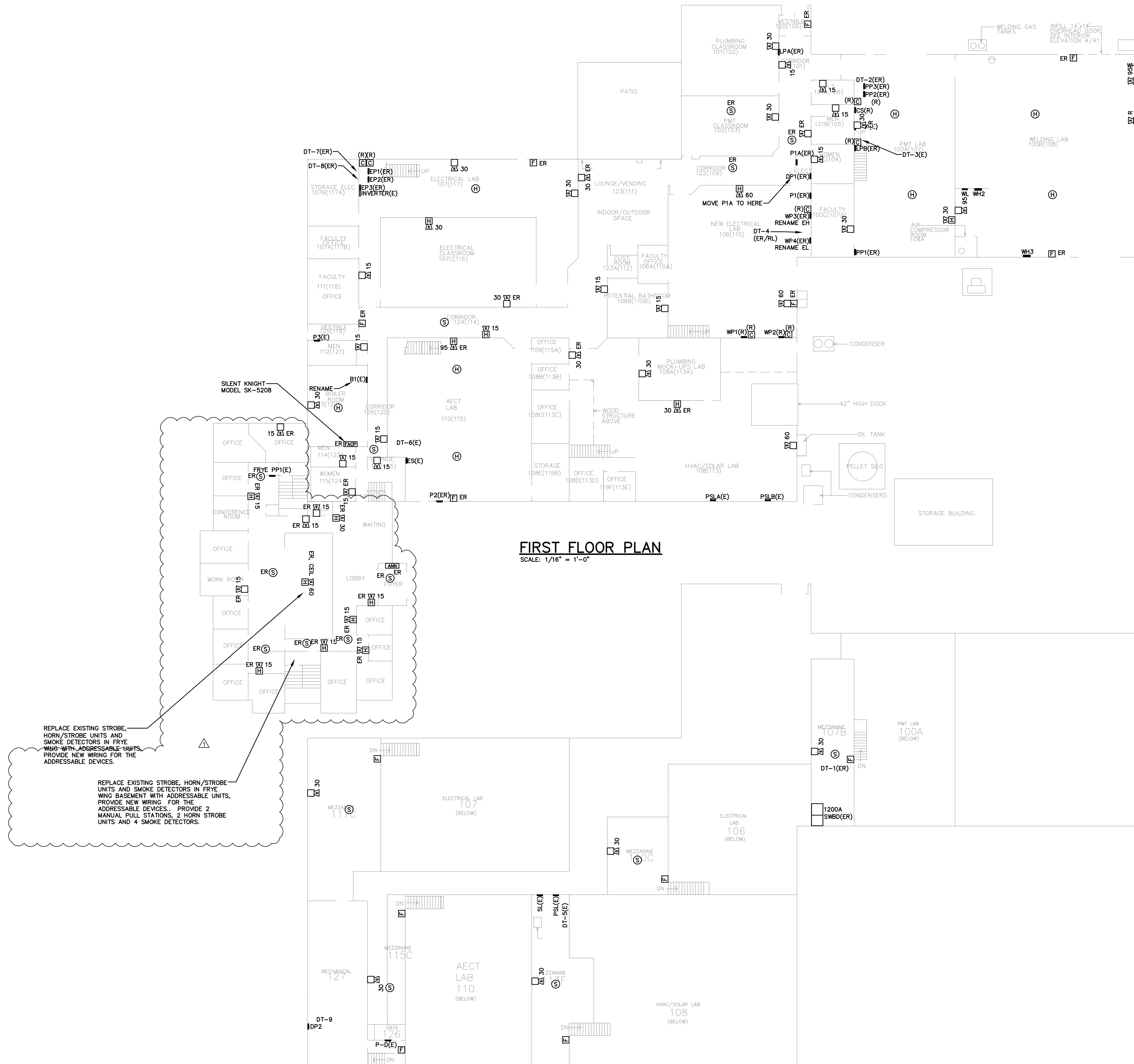
DATE: 08JAN2020

REV	DATE
1	01.30.20

KVCC WHITNEY WING RENOVATION
 FAIRFIELD, MAINE
 FIRE ALARM
 LAYOUT PLAN

1904

E3



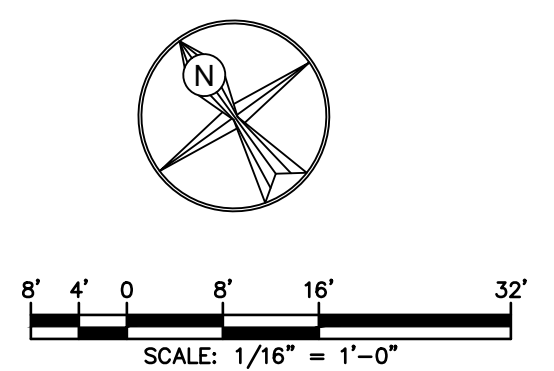
SILENT KNIGHT
 MODEL SK-5208

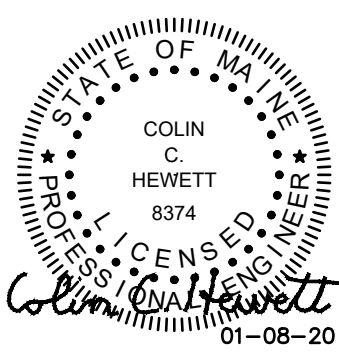
REPLACE EXISTING STROBE, HORN/STROBE UNITS AND SMOKE DETECTORS IN FRYE WING WITH ADDRESSABLE UNITS. PROVIDE NEW WIRING FOR THE ADDRESSABLE DEVICES.

REPLACE EXISTING STROBE, HORN/STROBE UNITS AND SMOKE DETECTORS IN FRYE WING BASEMENT WITH ADDRESSABLE UNITS. PROVIDE NEW WIRING FOR THE ADDRESSABLE DEVICES. PROVIDE 2 MANUAL PULL STATIONS, 2 HORN STROBE UNITS AND 4 SMOKE DETECTORS.

FIRST FLOOR PLAN
 SCALE: 1/16" = 1'-0"

MEZZANINE PLAN
 SCALE: 1/16" = 1'-0"





CONSTRUCTION DRAWINGS

DATE: 08JAN2020

REV DATE

△ 01.30.20

PANELBOARD & FEEDER SCHEDULE

PANELBOARD		MAINS				OVER CURRENT PROTECT.	SUPPLY FEEDERS				NOTES	
ID TAG	MOUNT'G LOCATION	BUS	ENTRY PHASE	WIRE	VOLTS	SUB/THRU FEED LUGS	ID TAG	NO. WIRES	SIZE WIRE	INSUL'N		CONDUIT
EP1	SURF ELECTRICAL LAB 107	225	CB	3 4	480/277	-	150	F-EP1	4 1	#1/0 #6	XHHW THW 2"	① ④
LPA	FLUSH CORRIDOR 121	100	LUG	3 4	208/120	-	100	F-LPA	4 1	#2 #8	XHHW THW 1 1/2"	⑤
LPB	SURF PMT LAB 100A	225	LUG	3 4	208/120	-	225	F-LPB	4 1	#4/0 #4	XHHW THW 2 1/2"	②
P1	SURF ELECTRICAL LAB 106	100	LUG	3 4	208/120	-	100	F-P1	4 1	#2 #8	XHHW THW 1 1/2"	②
P1A	SURF ELECTRICAL ROOM 106	225	LUG	3 4	208/120	-	125	F-P1A	4 1	#1 #6	XHHW THW 2"	②
P2	FLUSH AECT LAB 110	225	LUG	3 4	208/120	-	150	F-P2	4 1	#1/0 #6	XHHW THW 2"	⑤
P-D	-	-	-	3 4	208/120	-	-	F-PD	3 1	#4 #10	XHHW THW 1"	③
PP1	SURF PMT LAB 100A	225	LUG	3 4	480/277	-	200	F-PP1	4 1	#3/0 #6	XHHW THW 2 1/2"	①
PP2	SURF PMT LAB 100A	225	CB	3 4	480/277	-	200	F-PP2	4 1	#3/0 #6	XHHW THW 2 1/2"	① ④
WH1	SURF WELDING LAB 100B	400	CB	3 4	480/277	-	400	F-WH1	4 1	500MCM #3	XHHW THW 4"	① ④
WH2	SURF WELDING LAB 100B	400	CB	3 4	480/277	-	400	F-WH2	4 1	500MCM #3	XHHW THW 4"	① ④
WH3	SURF WELDING LAB 100B	400	CB	3 4	480/277	-	400	F-WH3	4 1	500MCM #3	XHHW THW 4"	① ④
WP3	SURF ELECTRICAL LAB 106	400	CB	3 4	480/277	-	400	F-WP3	4 1	500MCM #3	XHHW THW 4"	① ④

PANELBOARD & MISC EQUIPMENT NOTES

- ① NPOD PANELBOARD, BOLT-ON BREAKERS, MINIMUM GUTTERS 5" SIDES AND DEPTH, 8" FEED END, MIN 14,000 A.I.C.
- ② NPOD PANELBOARD, BOLT-ON BREAKERS, MINIMUM GUTTERS 5" SIDES AND DEPTH, 8" FEED END, 10,000 A.I.C.
- ③ PROVIDE NEW FEEDER FOR EXISTING PANELBOARD.
- ④ PROVIDE SHUNT TRIP MCB.
- ⑤ FOR THE RECESSED PANELBOARDS, KEEP THE EXISTING TUB AND REPLACE THE INTERIOR PANELBOARD COMPONENTS. ⚠

SWBD SWITCHBOARD SCHEDULE

MAINS				OVER CURRENT PROTECT.	SUPPLY FEEDERS				NOTES	
BUS	ENTRY PHASE	WIRE	VOLTS	SUB/THRU FEED LUGS	ID TAG	NO. WIRES	SIZE WIRE	INSUL'N		CONDUIT
1200	CB	3 4	480/277	-	1140	F-SWBD	12	500MCM	XHHW 3-3"	① ② ③

OVERCURRENT DEVICES			LOAD SERVED	NOTES
NO.	CB SIZE	FUSE SIZE		
1	400	-	PANEL WH1	
2	400	-	PANEL WH3	
3	400	-	PANEL WH2	
4	400	-	PANEL WP3	
5	400	-	PROVISION	
6	400	-	PROVISION	
7	400	-	PROVISION	
8	400	-	PROVISION	
9	200	-	PANEL PP1	
10	200	-	PANEL EP1	
11	200	-	PANEL PP2	
12	200	-	WELDING FAN WDCDF	
13	200	-	SPARE	
14	200	-	SPARE	
15	175	-	DT-1 / DP1	
16	125	-	DT-9 / DP2	
17	100	-	PANEL SL	
18	100	-	DT-6 / PANEL ES	
19	100	-	PANEL PA	
20	225	-	PROVISION	
21	225	-	PROVISION	
22	225	-	PROVISION	

MAIN SWITCHBOARD NOTES

- ① FREE STANDING MAIN SWITCHBOARD, INDIVIDUALLY MOUNTED MAIN BREAKER TYPE POWERPACT P FRAME, INCLUDE POWERLOGIC METER, FEEDER SECTION BREAKERS TO BE I-LINE MOUNTING, MINIMUM 35,000 A.I.C.
- ② FEEDER IS EXISTING. IT IS 3 SETS OF 500 MCM COPPER CONDUCTORS AND HAS AMPACITY OF 1140 AMPS. THE MAIN BREAKER MUST TRIP AT 1140 AMPS OR BELOW.
- ③ ELECTRONIC TRIP CIRCUIT BREAKER MICROLOGIC 6.0A WITH GROUND FAULT PROTECTION.

PANEL SCHEDULE

PANEL ID	TYPE	AMPS	MAIN	MOUNTING	VOLTS L-L	PHASE																					
DP1	-	400	CB	SURF	208	3																					
LOCATION: ELECTRICAL LAB, ELECTRIC ROOM																											
VOLTS L-G: 120 WIRE: 4																											
BRKR	A	P	DESCRIPTION	CIR VA	W/TC	CIR NO.	LOAD	A	B	C	CIR NO.	W/TC	CIR VA	DESCRIPTION	BRKR												
100	3	-		0	0	1	0				2	0	0	-	3 200												
	-	-		0	0	3	0				4	0	0	-	-												
	-	-		0	0	5	0				6	0	0	-	-												
225	3		BACK BUILDING	0	0	7	0				8	0	0	PANEL LPB	3 225												
	-	-		0	0	9	0				10	0	0	-	-												
	-	-		0	0	11	0				12	0	0	-	-												
100	3		PANEL P1	0	0	13	0				14	0	0	PANEL LPA	3 100												
	-	-		0	0	15	0				16	0	0	-	-												
	-	-		0	0	17	0				18	0	0	-	-												
250	3		CAFE BUILDING	0	0	19	0				20	0	0	PANEL P1A	3 125												
	-	-		0	0	21	0				22	0	0	-	-												
	-	-		0	0	23	0				24	0	0	-	-												
-	3		PROVISION	0	0	25	0				26	0	0	PROVISION	3 -												
	-	-		0	0	27	0				28	0	0	-	-												
	-	-		0	0	29	0				30	0	0	-	-												
PHASE TOTALS							0	0	0	0	0	0	0	0	0	0											
CONNECTED VA							0							CONNECTED AMPS							0						
CIRCUIT TYPE (CODE):							LIGHTS (L)	RECEPTACLE (R)	MOTOR (M)	HEAT (H)	OTHER (O)	SPARE (S)	DISTRIB (D)														

PANEL SCHEDULE

PANEL ID	TYPE	AMPS	MAIN	MOUNTING	VOLTS L-L	PHASE																					
DP2	-	400	CB	SURF	208	3																					
LOCATION: MECHANICAL MEZZANINE 127																											
VOLTS L-G: 120 WIRE: 4																											
BRKR	A	P	DESCRIPTION	CIR VA	W/TC	CIR NO.	LOAD	A	B	C	CIR NO.	W/TC	CIR VA	DESCRIPTION	BRKR												
125	3		FRYE CU	0	0	1	0				2	0	0	PANEL P2	3 150												
	-	-		0	0	3	0				4	0	0	-	-												
	-	-		0	0	5	0				6	0	0	-	-												
125	3		FRYE AHU	0	0	7	0				8	0	0	PANEL P3	3 150												
	-	-		0	0	9	0				10	0	0	-	-												
	-	-		0	0	11	0				12	0	0	-	-												
225	3		FRYE PP1	0	0	13	0				14	0	0	SPARE	3 100												
	-	-		0	0	15	0				16	0	0	-	-												
	-	-		0	0	17	0				18	0	0	-	-												
-	3		PROVISION	0	0	19	0				20	0	0	PROVISION	3 -												
	-	-		0	0	21	0				22	0	0	-	-												
	-	-		0	0	23	0				24	0	0	-	-												
-	3		PROVISION	0	0	25	0				26	0	0	PROVISION	3 -												
	-	-		0	0	27	0				28	0	0	-	-												
	-	-		0	0	29	0				30	0	0	-	-												
PHASE TOTALS							0	0	0	0	0	0	0	0	0	0											
CONNECTED VA							0							CONNECTED AMPS							0						
CIRCUIT TYPE (CODE):							LIGHTS (L)	RECEPTACLE (R)	MOTOR (M)	HEAT (H)	OTHER (O)	SPARE (S)	DISTRIB (D)														