

City of Fitchburg
Well No. 12 Facility
Conditional Use Permit Narrative

Project Background

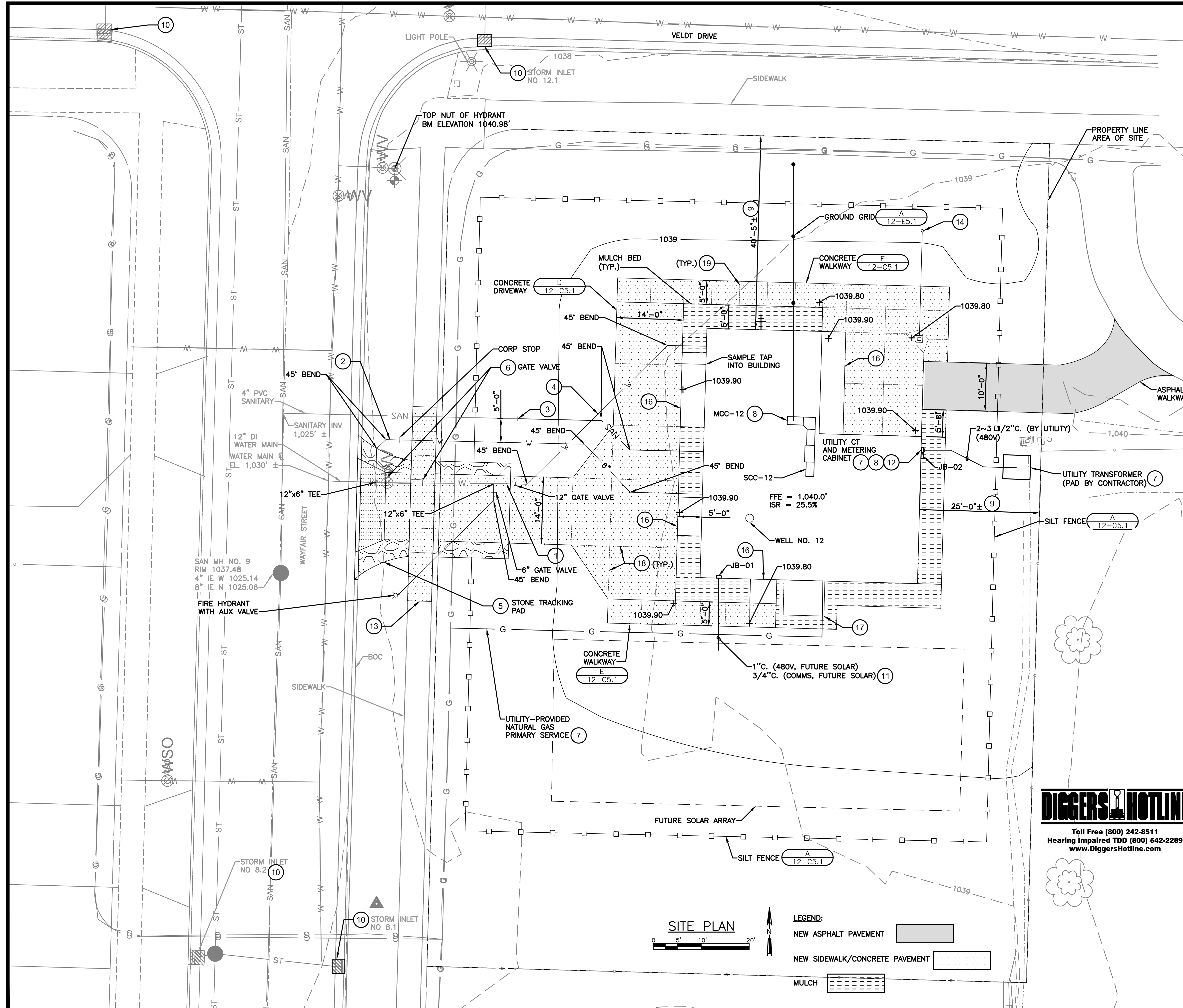
A new municipal well was drilled towards the center of the site from November 2024 to April 2025. A new facility to house the well is anticipated to be constructed. The facility will also contain two public restrooms with a paved asphalt walkway connecting to the existing walkway in the neighboring park.

Setback

Conditional use permit is also required to make rear setback 25 feet as shown on the drawings. Abutting property is public property.

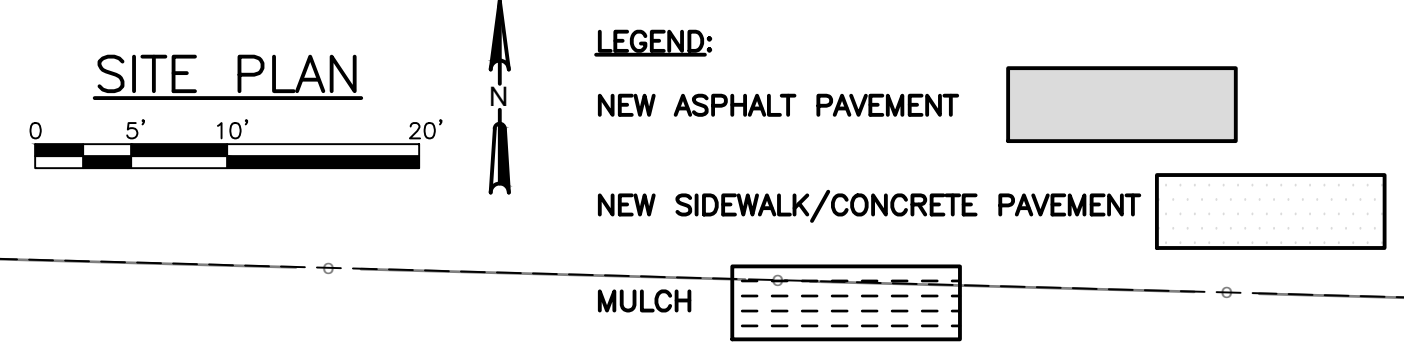
Construction Schedule

The well facility construction contract is anticipated to be publicly bid in July 2025. Work for the construction is anticipated to be between September 2025 and Summer 2027 by a general contractor.



- GENERAL NOTES:**
1. THESE DRAWINGS DO NOT INDICATE ALL PIPE FITTINGS REQUIRED TO INSTALL YARD PIPING AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL REQUIRED FITTINGS.
 2. CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
 3. AT PIPE CROSSINGS ON ALL SCHEMATIC AND PIPING PLANS, THE PIPE THAT IS BROKEN DOES NOT NECESSARILY DESIGNATE THE RELATIVE LOCATION OF THE PIPES WITH RESPECT TO EACH OTHER.
 4. MAINTAIN WISCONSIN DEPARTMENT OF NATURAL RESOURCES REQUIRED CLEARANCES REGARDING SEPARATION OF WATER MAINS AND SEWER PIPES.
 5. RESTORE AND SEED ALL DISTURBED AREAS AS SPECIFIED.
 6. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE AT MINIMUM A 4 FOOT HIGH SAFETY FENCE AROUND PERIMETER OF SITE. CONTRACTOR SHALL DETERMINE ANY ADDITIONAL MEASURES NECESSARY TO SECURE THE SITE.
 7. REFER TO SHEET 12-E6.1 FOR SPARE CONDUIT SCHEDULE ASSOCIATED WITH THE FUTURE SOLAR ARRAY.
 8. LOCATIONS AND ELEVATIONS OF EXISTING PIPING, ELECTRICAL SERVICE, AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING THAT CONNECTS TO EXISTING.
- EROSION CONTROL NOTES:**
1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
 2. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED AS REQUIRED IN THE CITY OF FITCHBURG EROSION CONTROL PERMIT.
 3. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS REQUESTED BY ENGINEER OR GOVERNING AGENCY.

- KEY NOTES:**
- 1 LOCATE EXISTING WATER MAIN AND CONNECT NEW 12" DUCTILE IRON WATER MAIN TO EXISTING 12" WATER MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER MAIN SIZE AND LOCATION PRIOR TO INSTALLING NEW WATER MAIN.
 - 2 6" WATER SERVICE LINE. SEE SHEET 12-P1.1 FOR CONTINUATION. MAINTAIN 5' SEPARATION FROM SANITARY SERVICE.
 - 3 LOCATE EXISTING SANITARY SEWER AND CONNECT NEW SANITARY LATERAL TO EXISTING. CONTRACTOR SHALL FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO INSTALLING NEW LATERAL. PROVIDE FITTINGS AS SPECIFIED.
 - 4 12" WATER MAIN CROSSING OVER SANITARY SEWER SHALL HAVE A MINIMUM 6" VERTICAL SEPARATION FROM THE TOP OF THE SEWER MAIN. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS PRIOR TO LAYING PIPE.
 - 5 CONTRACTOR SHALL MAINTAIN EXISTING STONE TRACKING PAD AS SPECIFIED UNTIL CONCRETE DRIVEWAY AND APRON IS INSTALLED. REMOVE STONE TRACKING PAD AFTER WORK IS COMPLETE.
 - 6 RELOCATE EXISTING 12" GATE VALVE EAST TO SIDEWALK TO ACCOMMODATE NEW WATER SERVICE TAP. COORDINATE OUTAGE WITH OWNER.
 - 7 COORDINATE NEW UTILITY SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR ADDITIONAL INFORMATION FOR ELECTRIC SERVICE.
 - 8 ELECTRICAL SERVICE CONDUITS TO MCC SHALL BE RUN UNDER FLOOR SLAB AND SHALL NOT BE EXPOSED WITHIN BUILDING.
 - 9 SITE DIMENSION TO BUILDING ARE APPROXIMATE. ALIGN BUILDING FACES WITH PROPERTY LINES. LOCATE BUILDING BASED ON DIMENSIONS FROM WELL AS SHOWN ON 12-ASM1.1.
 - 10 PROVIDE INLET PROTECTION IN ACCORDANCE WITH CITY SPECIFICATION FOR FRAMED INLET PROTECTION AS SPECIFIED.
 - 11 STUB CONDUITS MINIMUM 5' BEYOND CONCRETE WALKWAY AND CAP WATERTIGHT BELOW GRADE.
 - 12 PROVIDE CONDUIT STUB FROM UTILITY CT AND METERING CABINET TO 18" BELOW GRADE FOR SECONDARY CABLING AND CONDUIT BY UTILITY.
 - 13 REPAIR SIDEWALK AREA AS SHOWN IN ACCORDANCE WITH THE CITY SPECIFICATIONS.
 - 14 BURIED DOWNSPOUT. PROVIDE POSITIVE DRAINAGE AWAY FROM THE FACILITY. PROVIDE SWALE AT DISCHARGE LOCATION.
 - 15 PROVIDE CORP STOP TAP IN FINISHED WATER DISCHARGE PIPE FOR FINISHED WATER SAMPLE TAP. BRING SERVICE BACK INTO FACILITY. SEE DRAWING 12-ASM1.1 FOR CONTINUATION.
 - 16 CONCRETE STOOP. SEE DRAWING 12-ASM1.1.
 - 17 CONCRETE EQUIPMENT PAD. SEE DRAWING 12-ASM1.1.
 - 18 CONCRETE DRIVEWAY CONTROL JOINT. 12-C5.1
 - 19 CONCRETE WALKWAY TOOLED JOINT. 12-C5.1



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 Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com

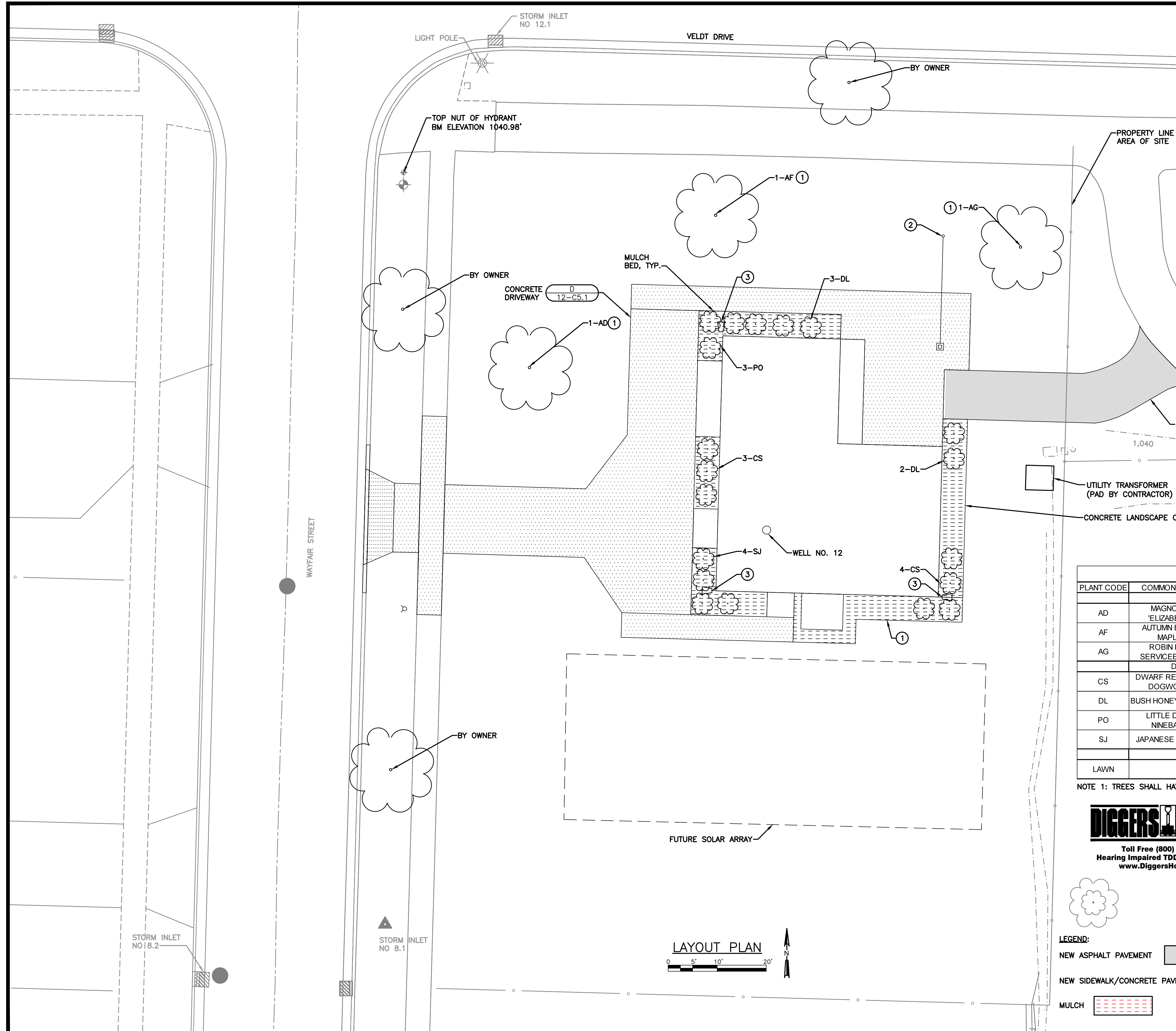
NO.	REVISIONS	DATE:

WELL NO. 12 SITE PLAN
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
8
12-CE1.1



- GENERAL NOTES:**
- ALL PLANTING BEDS AND TREES TO RECEIVE WOOD MULCH AS SPECIFIED.
- KEY NOTES:**
- CONCRETE EDGING SHALL BE MINIMUM 4 INCHES WIDE AND SHALL INCLUDE COLOR TO BE SELECTED BY OWNER. SUBMIT SHAPE AND STAMPING OPTIONS TO OWNER.
 - PROVIDE BURIED DOWNSPOUT WITH MINIMUM 1 PERCENT GARDE AWAY FROM FACILITY. DOWNSPOUT SHALL INCLUDE A CLEANOUT NEAR DOWNSPOUT CONNECTION. TERMINATE END AT GRADE WITH AN ANGLED DISCHARGE FLUSH WITH GRADE.
 - CONCRETE SPLASH PAD G
12-ASM5.2

PLANT DATA CHART					
PLANT CODE	COMMON NAME	SCIENTIFIC NAME	MULCH RING DIA	QUANTITY	REMARKS
TREES					
AD	MAGNOLIA 'ELIZABETH'	ACUMINATA X DENUDATA	42"	1	GUY OR BRACE
AF	AUTUMN BLAZE MAPLE	ACER X FREEMANII	42"	1	GUY OR BRACE
AG	ROBIN HILL SERVICEBERRY	AMELANCHIER X GRANDIFLORA	42"	1	GUY OR BRACE
DECIDUOUS SHRUBS					
CS	DWARF RED TWIG DOGWOOD	CORNUS SERICEA	PLANTING BED	7	3' SPACING
DL	BUSH HONEYSUCKLE	DIERVILLA LONICERA	PLANTING BED	5	3' SPACING
PO	LITTLE DEVIL NINEBARK	PHYSOCARPUS OPULIFOLIUS	PLANTING BED	3	3' SPACING
SJ	JAPANESE SPIREA	SPIRAEA JAPONICA	PLANTING BED	4	18" O.C. SPACING
GRASS					
LAWN				AS REQ'D	SEE SPECIFICATION AND PLAN

NOTE 1: TREES SHALL HAVE CONCRETE LANDSCAPE CURB.

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LEGEND:

- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- MULCH

NO.	REVISIONS	DATE:

WELL NO. 12 LANDSCAPING PLAN
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
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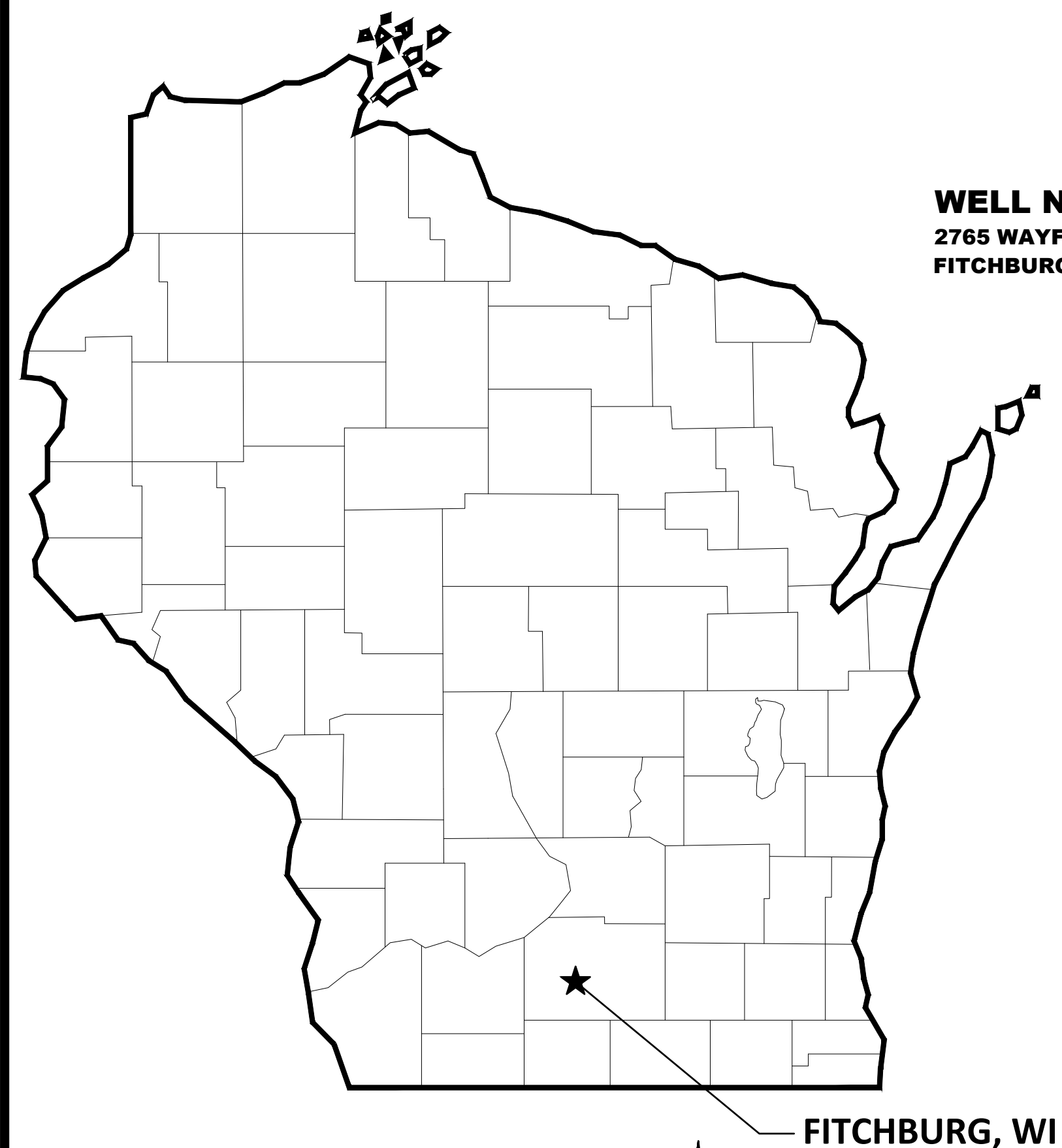
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12-C1.1

WELL NO. 12 WELL FACILITY

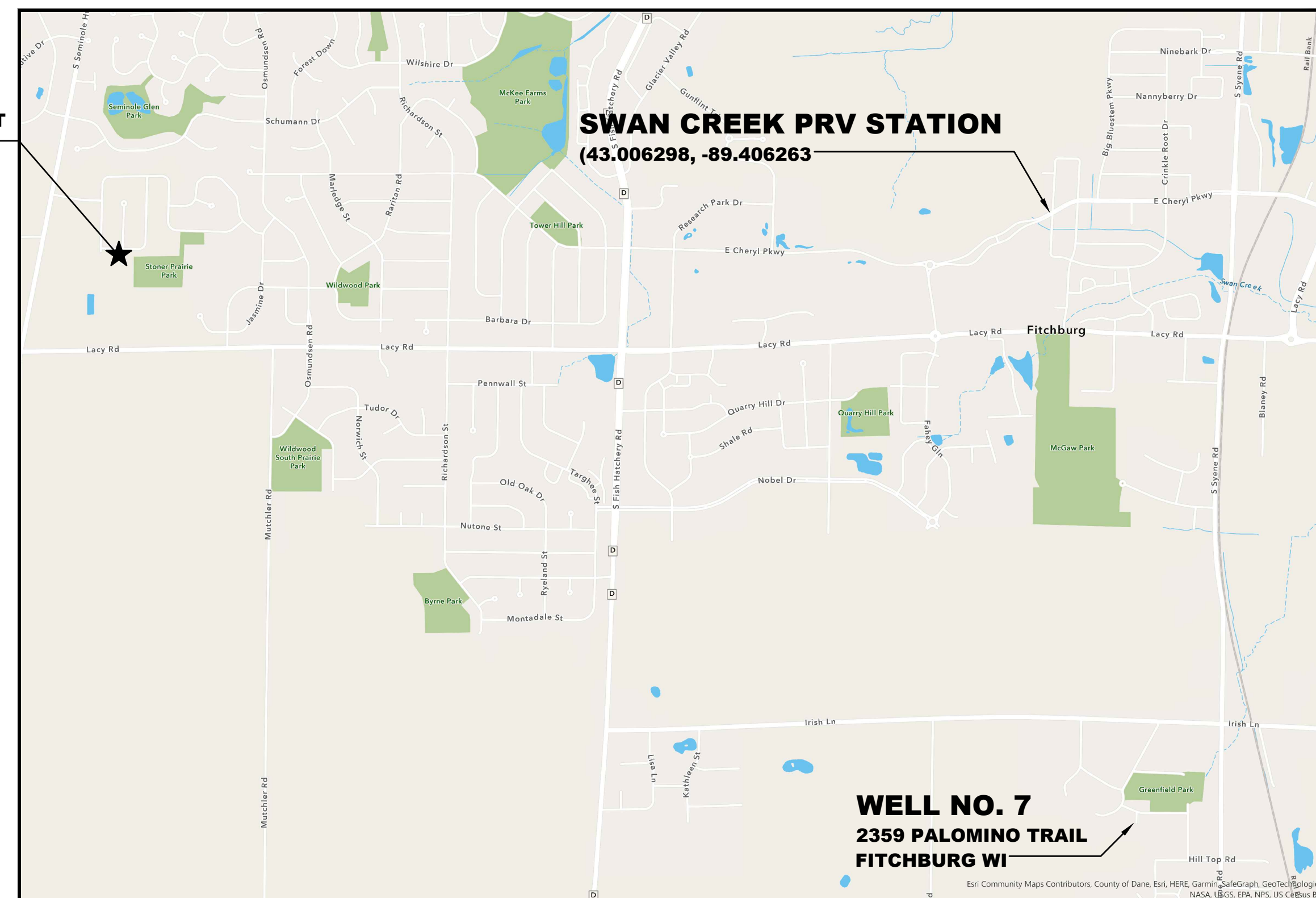
FOR THE

CITY OF FITCHBURG

FITCHBURG, WISCONSIN



WELL NO. 12
2765 WAYFAIR STREET
FITCHBURG WI

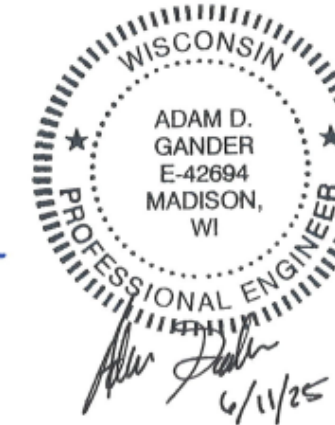


LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	TITLE
00 - GENERAL		
1	00-G0.1	TITLE SHEET, LOCATION MAPS, AND DRAWING LIST
2	00-G0.2	STANDARD SYMBOLS -1
3	00-G0.3	STANDARD SYMBOLS-2
4	00-G0.4	ABBREVIATIONS
01 - SWAN CREEK PRV STATION		
5	01-CASME 1.1	SWAN CREEK PRV STATION
07 - WELL NO. 7		
6	07-C1.1	WELL NO. 7 SITE PLAN
7	07-DASME1.1	WELL NO. 7 MODIFICATIONS
12 - WELL NO. 12		
8	12-CE1.1	WELL NO. 12 SITE PLAN
9	12-C1.1	WELL NO. 12 LANDSCAPING PLAN
10	12-C5.1	WELL NO. 12 SITE DETAILS - 1
11	12-AS1.1	WELL NO. 12 CODE SUMMARY AND LIFE SAFETY PLAN
12	12-ASM1.1	WELL NO. 12 FLOOR PLAN
13	12-ASM1.2	WELL NO. 12 FOUNDATION PLAN
14	12-ASM1.3	WELL NO. 12 PRECAST PLANK PLAN
15	12-ASM1.4	WELL NO. 12 ROOF TRUSS PLAN
16	12-ASM2.1	WELL NO. 12 BUILDING ELEVATIONS - 1
17	12-ASM2.2	WELL NO. 12 BUILDING ELEVATIONS - 2
18	12-ASM3.1	WELL NO. 12 SECTIONS - 1
19	12-ASM3.2	WELL NO. 12 SECTIONS - 2
20	12-ASM3.3	WELL NO. 12 SECTIONS - 3
21	12-ASM5.1	WELL NO. 12 DETAILS - 1
22	12-ASM5.2	WELL NO. 12 DETAILS - 2
23	12-ASM5.3	WELL NO. 12 DETAILS - 3
24	12-ASM6.1	WELL NO. 12 SCHEDULES - 1
25	12-FP1.1	WELL NO. 12 FIRE PROTECTION PLAN
26	12-P1.1	WELL NO. 12 PLUMBING - WASTE AND VENT PLAN
27	12-P1.2	WELL NO. 12 PLUMBING - WATER SUPPLY PLAN
28	12-PH3.1	WELL NO. 12 PLUMBING AND HVAC - SECTIONS
29	12-PH5.1	WELL NO. 12 PLUMBING AND HVAC - DETAILS
30	12-P6.1	WELL NO. 12 PLUMBING SCHEDULES
31	12-P7.1	WELL NO. 12 PLUMBING SCHEMATICS
32	12-H1.1	WELL NO. 12 HVAC PLAN
33	12-H6.1	WELL NO. 12 HVAC - SCHEDULES - 1
34	12-H6.2	WELL NO. 12 HVAC - SCHEDULES - 2
35	12-H7.1	WELL NO. 12 HVAC - PROCESS FLOW SCHEMATIC
36	12-E1.1	WELL NO. 12 ELECTRICAL - PLAN
37	12-E1.2	WELL NO. 12 ELECTRICAL - LIGHTING PLAN
38	12-E5.1	WELL NO. 12 ELECTRICAL - DETAILS
39	12-E6.1	WELL NO. 12 ELECTRICAL - ONE-LINE DIAGRAM AND SCHEDULES
40	12-E6.2	WELL NO. 12 ELECTRICAL - MCC-12 SCHEDULE AND ELEVATION
41	99-DE7.1	WELL NO. 12 ELECTRICAL - DEMOLITION SCADA RISER DIAGRAM
42	99-E7.1	WELL NO. 12 ELECTRICAL - SCADA RISER DIAGRAM

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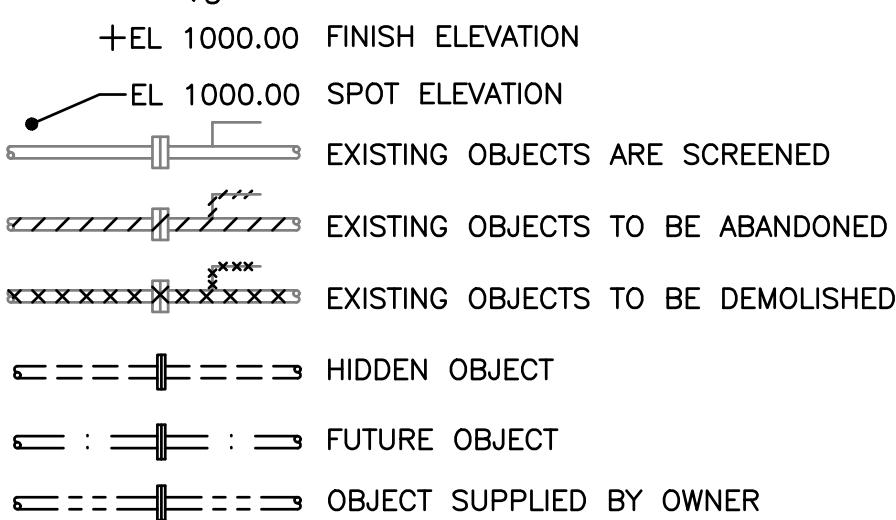
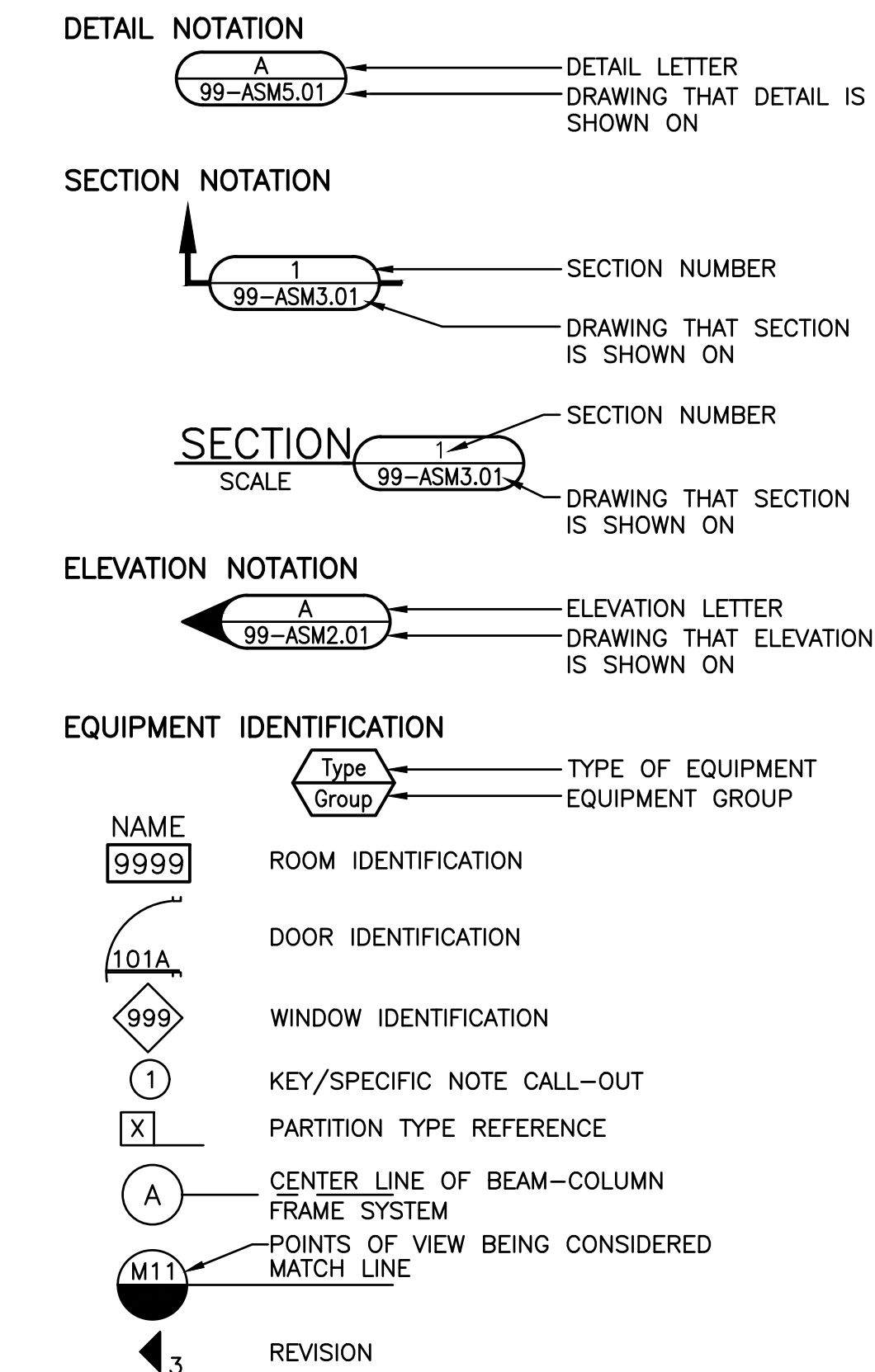
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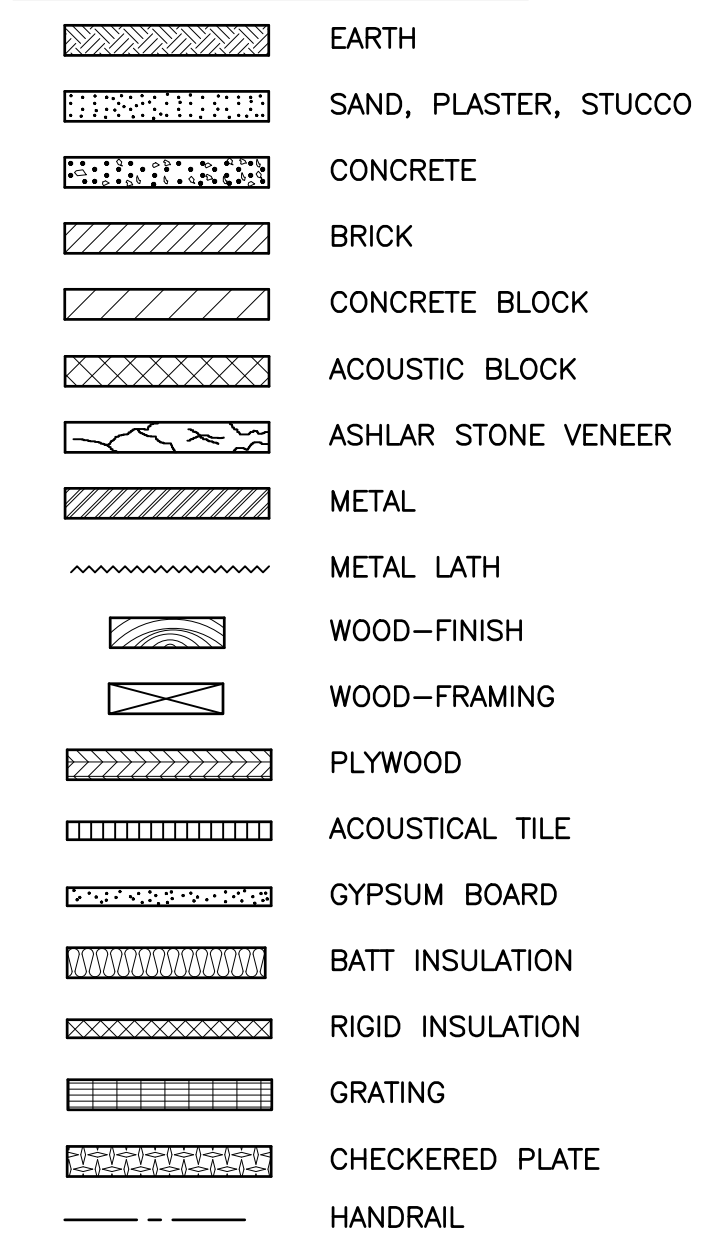
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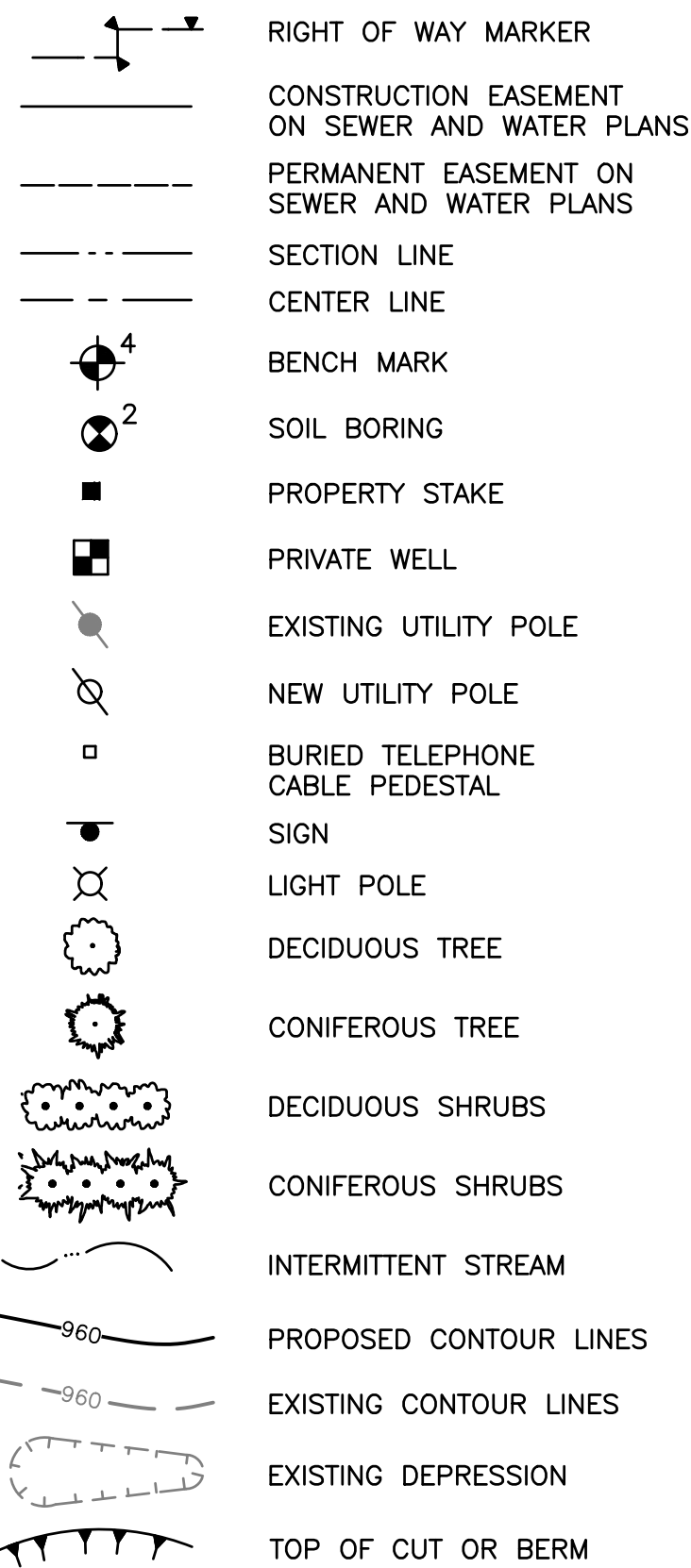
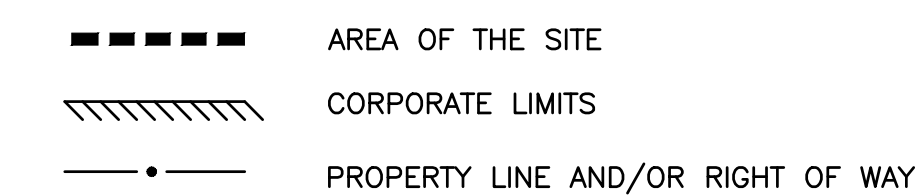
DRAFTING SYMBOLS



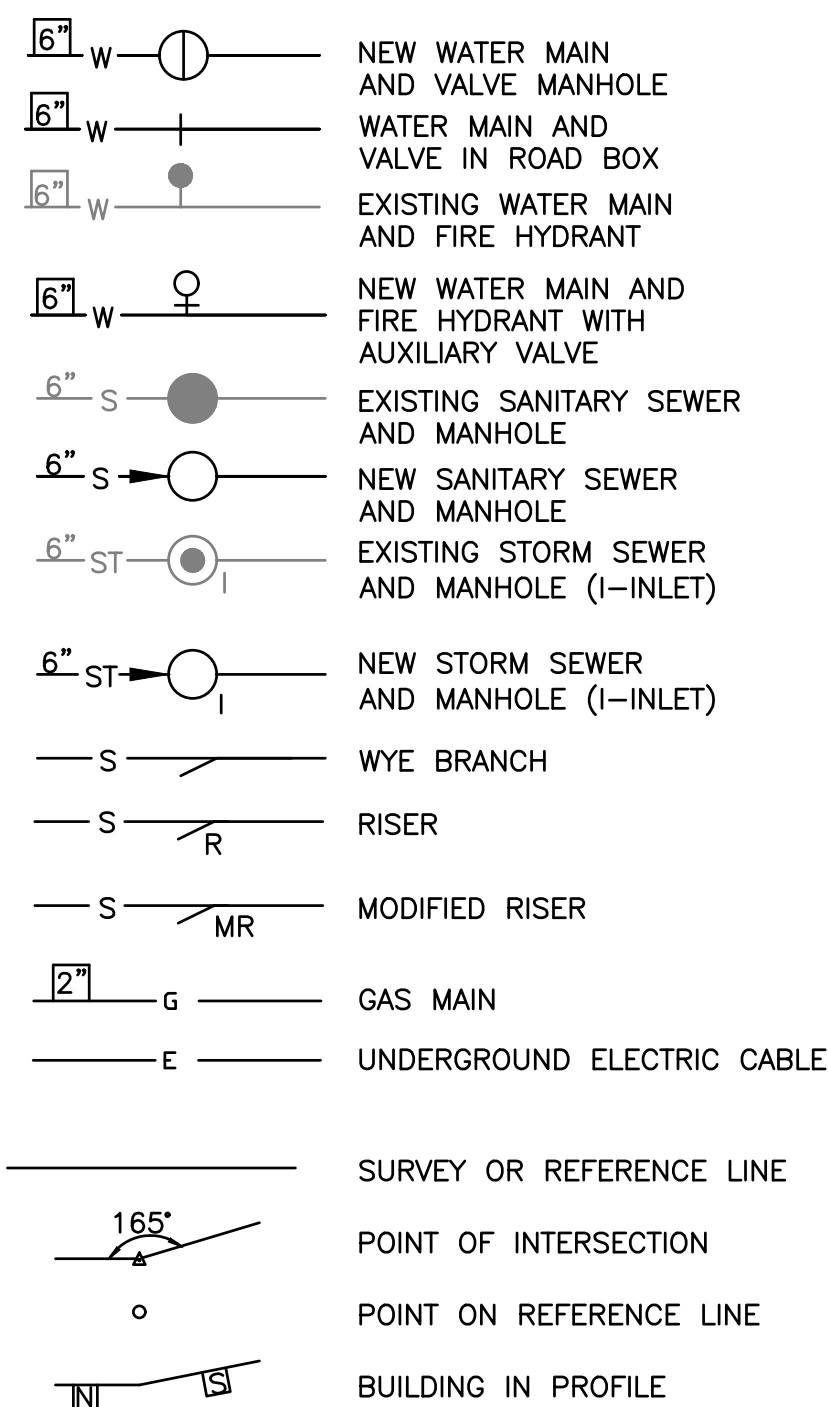
ARCHITECTURAL SYMBOLS



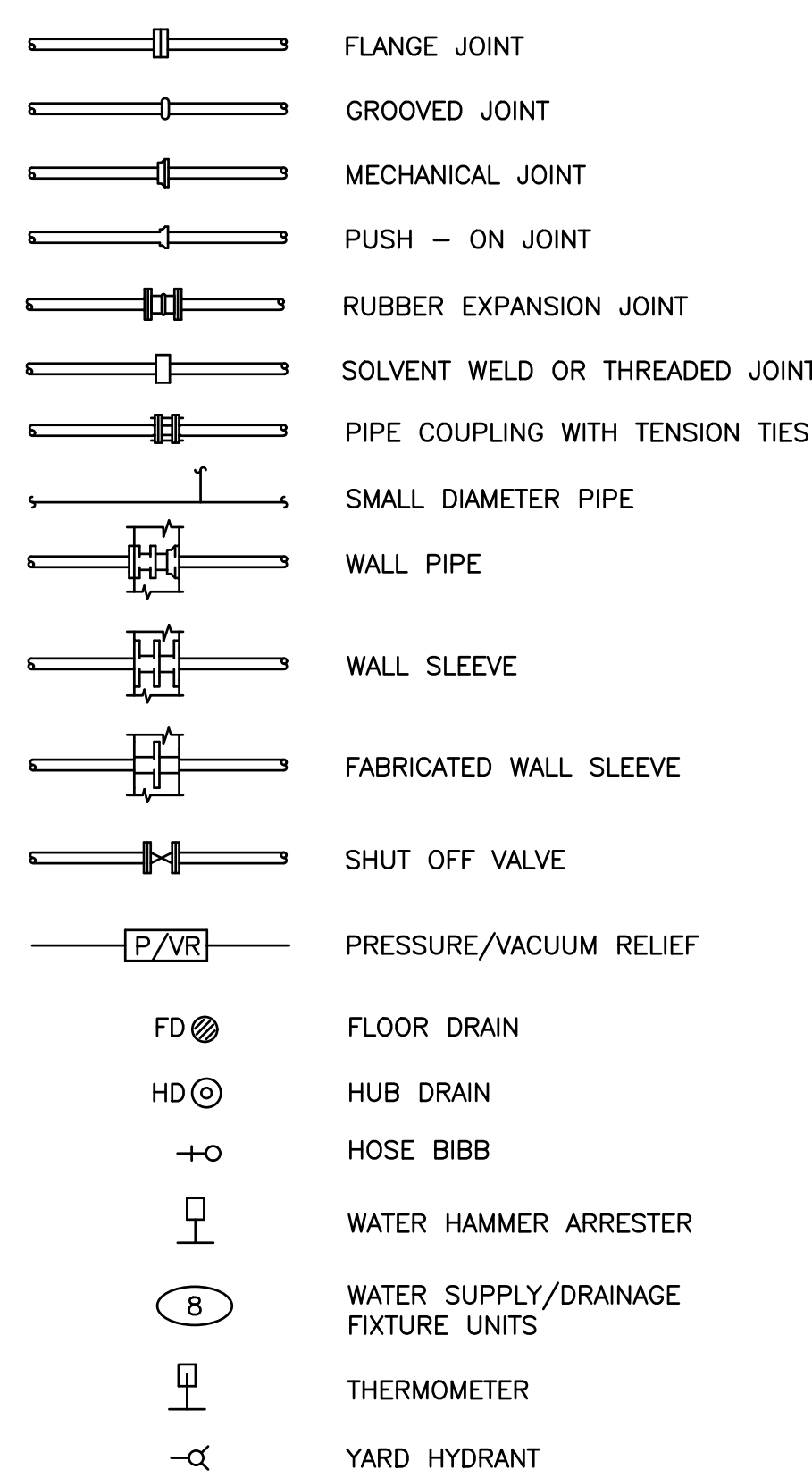
TOPOGRAPHICAL SYMBOLS



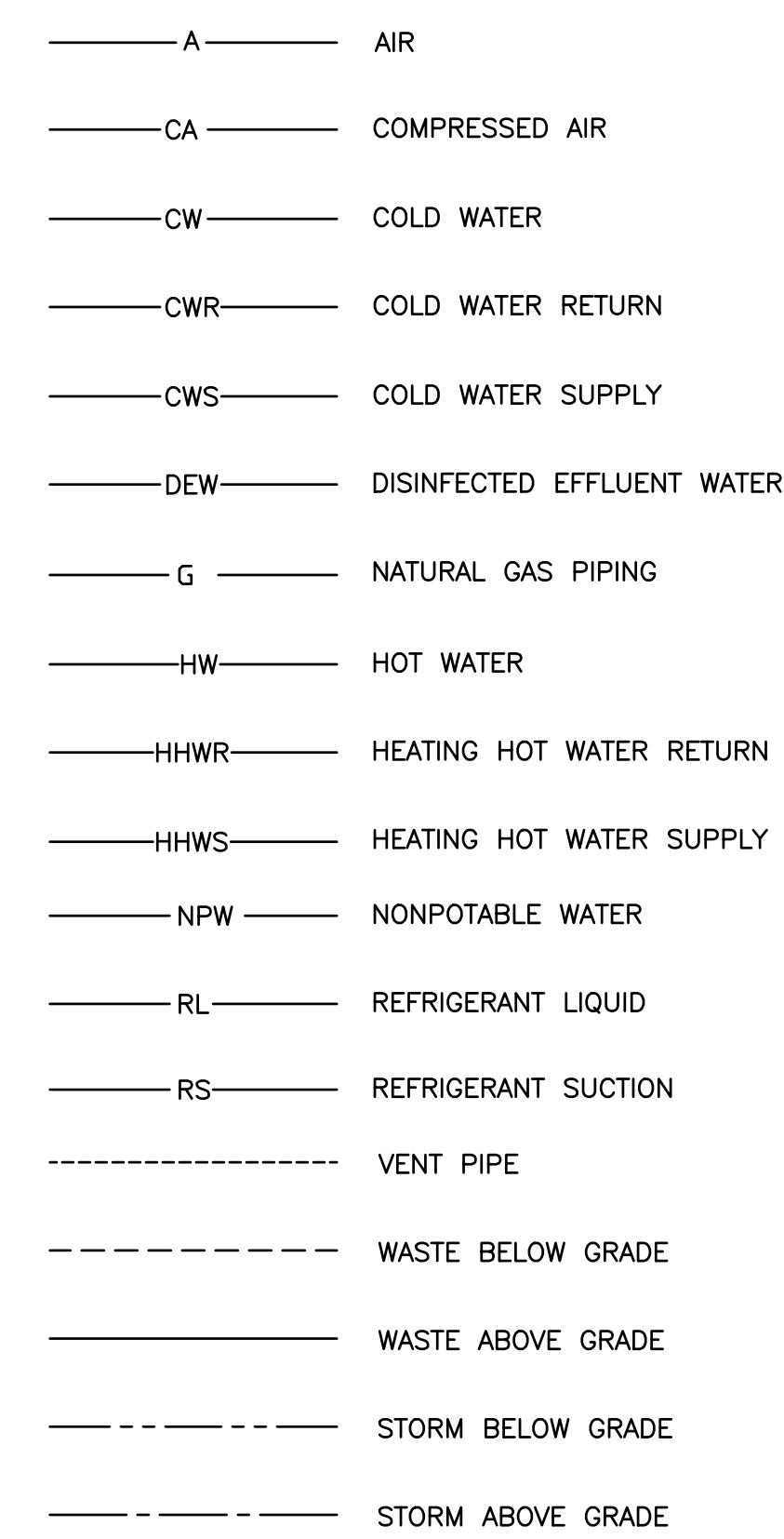
UNDERGROUND UTILITY SYMBOLS



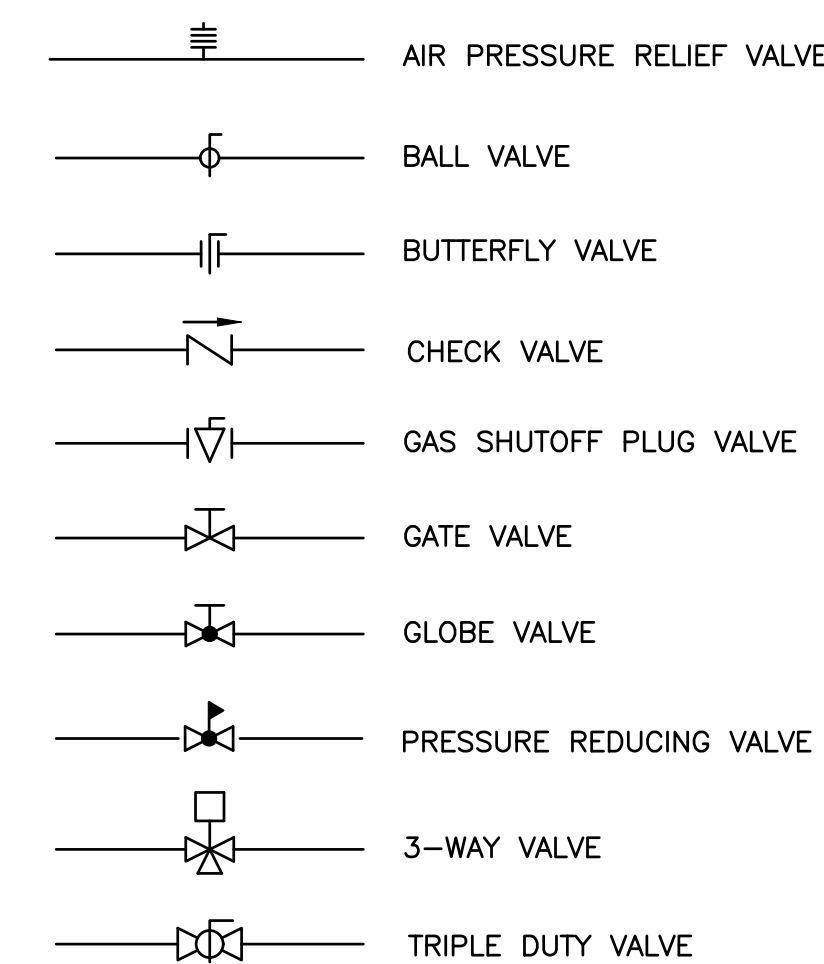
PIPING SYMBOLS



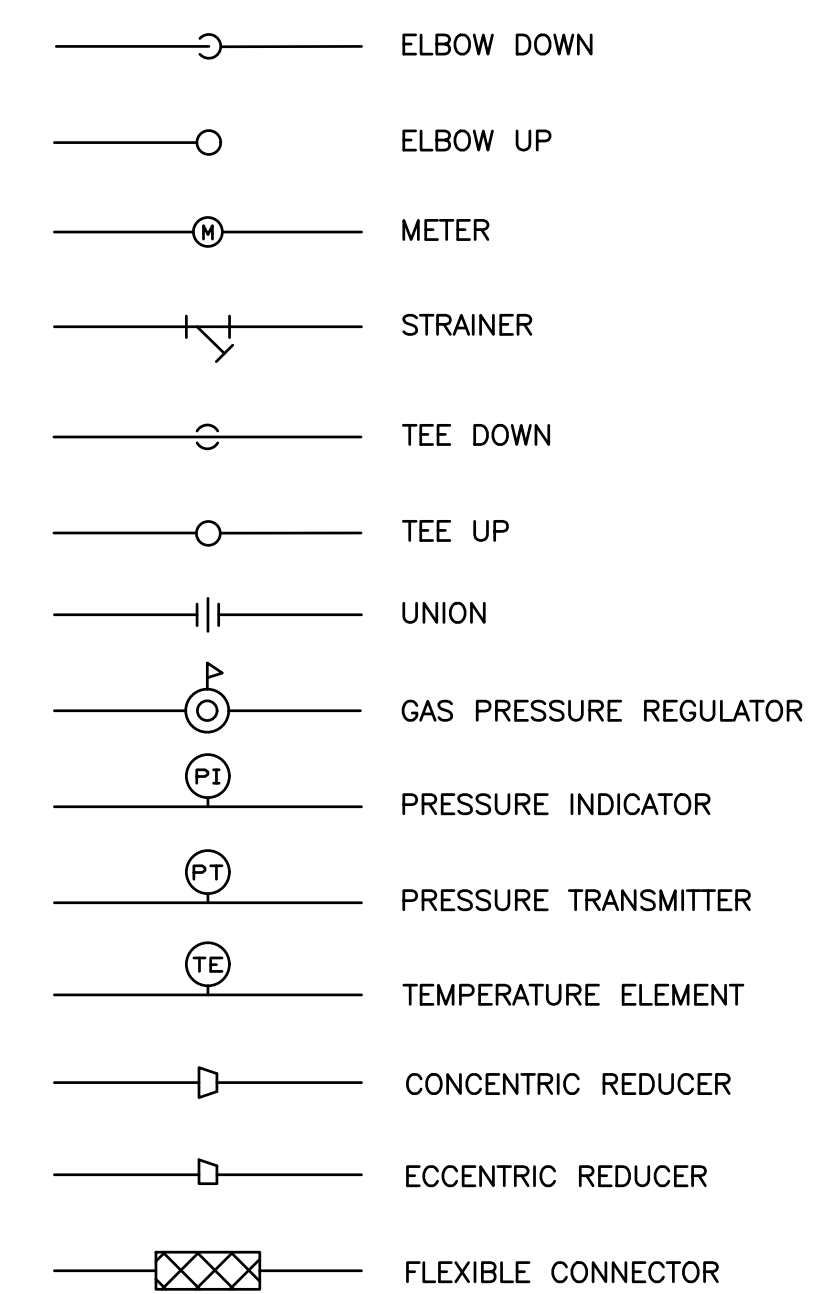
PIPING DESIGNATIONS



VALVE SYMBOLS



PIPING SYMBOLS



DATE:					

NO.	REVISIONS

STANDARD SYMBOLS - 1

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
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SHEET
2
00-G0.2

ELECTRICAL SYMBOLS

- LIGHTING**
 FIXTURE SYMBOL (TYPICAL)
 A-INDICATES FIXTURE TYPE
 2-INDICATES CIRCUIT NUMBER
 b-INDICATES SWITCHING
 SOLID CIRCLE INDICATES ALWAYS ON
- SURFACE OR PENDANT MOUNTED
 WALL MOUNTED
 1X4 SURFACE OR PENDANT MOUNTED LINEAR
- SWITCHES**
 SINGLE POLE
 #: (BLANK) = SINGLE POLE
 3 = THREE-WAY
 4 = FOUR-WAY
 M = MANUAL MOTOR SWITCH (3 PHASE)
- PHOTOCELL
- EQUIPMENT AND WIRING**
 DISCONNECT, F=FUSED, B=CIRCUIT BREAKER, BLANK=NON-FUSED
- JUNCTION BOX
 LINE VOLTAGE THERMOSTAT
 480V LOAD, REFER TO MCC/PANEL SCHEDULE FOR EQUIPMENT NUMBER
 SOLENOID VALVE

POWER AND ONE-LINE DIAGRAM SYMBOLS

- CIRCUIT NUMBER (TYPICAL)
 OTHERWISE SHOWN PANEL DESIGNATION (TYP.)
 DUPLEX, 120 VOLT, 15" AFF
 WP INDICATES WEATHERPROOF
 DUPLEX, 120 VOLT, 3'-6" AFF
 DOUBLE DUPLEX, 120 VOLT, 3'-6" AFF
- FIXED EQUIPMENT CONNECTION
- AUTOMATIC TRANSFER SWITCH
- CIRCUIT BREAKER
- PANELBOARD
- FUSE
- METER
- CURRENT TRANSFORMER, X:YA INDICATES RATIO
- TRANSFORMER

FIRE ALARM AND DETECTION SYMBOLS

- FIRE ALARM CONTROL PANEL
- SMOKE DETECTOR; CEILING MOUNT
- SWITCH INDICATION
 DUCT SMOKE DETECTOR
 DUCT SIZE
- REMOTE TEST SWITCH
 SWITCH INDICATION
- FIRE ALARM PULL STATION
- SPRINKLER FLOW SWITCH
- SPRINKLER VALVE TAMPER SWITCH
- FIRE ALARM BELL

TECHNOLOGY SYMBOLS

- INTERCOM STATION
- OCCUPANCY SENSOR, CEILING, OR WALL
 SEE SPECIFICATION FOR SENSOR TYPE
- CARD READER
- ALARM HORN; WALL MOUNT
- WARNING LIGHT; WALL MOUNT
- OMNI-DIRECTIONAL ANTENNA
- DIRECTIONAL (YAGI) ANTENNA

SITE SYMBOLS

- UNDERGROUND ELECTRIC
- UTILITY POLE

EQUIPMENT SYMBOLS

- ACCUMULATOR
- AIR FLOW DIRECTION
- BASE MOUNTED PUMP
- BLOWER
- CEILING DIFFUSER WITH FLEXIBLE DUCT
- CENTRIFUGAL PUMP
- CONNECT TO EXISTING
- DRIP TRAP
- DUCT BOOST COIL
- EQUIPMENT TAG
- FLAME ARRESTER
- FLAME CELL
- FLAME TRAP ASSEMBLY
- GRINDER
- INLINE PUMP
- POSITIVE DISPLACEMENT PUMP
- ROOF EXHAUST FAN
- UNIT HEATER
- VARIABLE AIR VOLUME (VAV) BOX WITH ELECTRIC REHEAT COIL
- VARIABLE AIR VOLUME (VAV) BOX WITH HEATING HOT WATER REHEAT COIL
- FLOATING MIXER
- SCREW CONVEYOR

MECHANICAL/HVAC SYMBOLS

DAMPER AND ACTUATOR SYMBOLS

- AUTOMATIC DAMPER
- BACKDRAFT DAMPER
- MANUAL VOLUME DAMPER
- 1-1/2 HR. FIRE DAMPER
- MOTOR (ELECTRIC)
- PNEUMATIC
- SOLENOID

DUCTWORK SYMBOLS

- SUPPLY DUCT (UP OR SECTION)
- SUPPLY OR OUTSIDE AIR DUCT (DOWN/OR AWAY)
- EXHAUST DUCT (UP OR SECTION)
- EXHAUST OR RETURN DUCT (DOWN/OR AWAY)
- ROUND DUCTWORK UP
- ROUND DUCTWORK DOWN
- FLEXIBLE CANVAS CONNECTION
- TURNING VANES

FIELD MOUNTED HVAC CONTROLS

- THERMOSTAT
- ROOM HUMIDISTAT
- PRESSURE SENSOR
- ROOM SENSOR
- DUCT SMOKE DETECTOR
- PRESSURE GAUGE

INSTRUMENTATION SYMBOLS

INTERNATIONAL SOCIETY OF AUTOMATION (ISA) DEFINITION TABLE

LETTER	FIRST LETTERS		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
C	USER'S CHOICE (+)		CONTROL		CLOSE
D	USER'S CHOICE (+)	DIFFERENTIAL			DEVIATION
E	VOLTAGE		PRIMARY ELEMENT (SENSOR)		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE (+)		GLASS, GAUGE	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME, SCHEDULE	TIME RATE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	USER'S CHOICE (+)	MOMENTARY			MIDDLE
N	USER'S CHOICE (+)		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
O	USER'S CHOICE (+)		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY (+)	INTEGRATE	INTEGRATE		
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (+)		MULTIFUNCTION (+)	MULTIFUNCTION (+)	MULTIFUNCTION (+)
V	VISCOSITY, VIBRATION			VALVE, DAMPER	
W	WEIGHT, FORCE		WELL, PROBE		
X	UNCLASSIFIED (+)	X-AXIS	UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	EVENT, STATE, PRESENCE (+)	Y-AXIS		RELAY, COMPUTE (+)	
Z	POSITION, DIMENSION	Z-AXIS		DRIVE, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

DEVICE TAG NAMING & DESCRIPTORS

EQUIPMENT

TAG NAMING: W-XY-Z
 W = TYPE OF EQUIPMENT
 XY = LOOP/STRUCTURE NUMBER
 Z = UNIT NUMBER

CONTROL & INSTRUMENTATION

TAG NAMING: TRC-XY-Z
 T = FIRST LETTER FROM ISA DEFINITION TABLE
 RC = SUCCEEDING LETTERS FROM ISA DEFINITION TABLE
 XY = LOOP/STRUCTURE NUMBER
 Z = UNIT NUMBER

ADDITIONAL DESCRIPTORS:

A = NUMBER OF UNITS DEPICTED (BLANK IF ONE)
 B = NUMBER OF SETS DEPICTED (BLANK IF ONE)
 D = SUPPLEMENTAL DESCRIPTION (REFER TO INSTRUMENT-SPECIFIC ELECTRICAL ABBREVIATIONS)

INSTRUMENTS

GENERAL INSTRUMENT (SEE DEVICE TAG NAMING & DESCRIPTORS ABOVE AND ABBREVIATIONS SHEET)

DATE:									
REVISIONS									
NO.									

STANDARD SYMBOLS - 2
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
 1275.059
PROJECT MGR.
 STEVE KLUESNER



SHEET
 3
00-G0.3

GENERAL EQUIPMENT ABBREVIATIONS

AC AIR COMPRESSOR
 ACU ACCUMULATOR
 ADT AUTOMATIC DRIP TRAP
 AFT AUTOMATIC FILTER
 AOV AIR OPERATED VALVE
 AM ANOXIC MIXER
 AST AUTOMATIC STRAINER
 BSLP BLENDED SLUDGE PUMP
 B BLOWER
 BC BRIDGE CRANE
 BFP BELT FILTER PRESS
 BFFPF BFP FEED PUMP
 BFV BUTTERFLY VALVE
 BLP BIOSOLIDS LOADING PUMP
 BLR BOILER
 BP BOOSTER PUMP
 BSLMP BLENDED SLUDGE MIXING PUMP
 BSLP BLENDED SLUDGE PUMP
 BSTM BIOSOLIDS STORAGE MIXER
 BTP BIOSOLIDS TRANSFER PUMP
 BWP BACKWASH PUMP
 CENT CENTRIFUGE
 CNTP CENTRATE PUMP
 CENTP CENTRIFUGE FEED PUMP
 CP CHEMICAL PUMP
 COMP COMPRESSOR
 CON CONVEYOR
 DBC DEWATERED BIOSOLIDS CONVEYOR
 DCP DECANT PUMP
 DEWP DISINFECTED EFFLUENT PUMP
 DP DRAINAGE PUMP
 DRLP DIGESTER RECIRCULATION PUMP
 DSLMP DIGESTER MIXING PUMP
 DSLTP DIGESTED SLUDGE TRANSFER PUMP
 DT DRIP TRAP
 DOW DOWNWARD OPENING WEIR GATE
 EFC EXCESS FLOW CLARIFIER
 EFP EXCESS FLOW PUMP
 EFSF EXCESS FLOW SOLIDS PUMP
 EP EFFLUENT PUMP
 FC FINAL CLARIFIER
 FCD FINAL CLARIFIER DRIVE
 FEP FINAL EFFLUENT PUMP
 FILT FILTER
 FM FLOW METER
 FO FERMENTER OVERFLOW
 FRS FERMENTED SLUDGE
 FT FLAME TRAP
 GBT GRAVITY BELT THICKENER
 GC GRIT CLASSIFIER
 GFM GAS FLOW METER
 GCS GAS COMPRESSOR SKID
 GP GRIT PUMP
 GRN GRINDER
 GT GRIT TRAP
 GUH GAS UNIT HEATER
 GW GRIT WASHER
 H HOIST
 HBT HYDRO-PNEUMATIC BOOSTER TANK
 HTX HEAT EXCHANGER
 IP INFLUENT PUMP
 MA MOTORIZED ACTUATOR
 MBV MOTORIZED BALL VALVE
 MFS MECHANICAL FINE SCREEN
 MIX MIXER
 MOV MOTOR OPERATED VALVE
 MP MIXING PUMP
 MPE MISCELLANEOUS PROCESS EQUIPMENT
 MST MANUAL STRAINER
 MT MICROTURBINE
 NRP NITRATE RECYCLE PUMP
 OCD OVERHEAD COILING DOOR
 OCE ODOR CONTROL EQUIPMENT
 ODE OXIDATION DITCH EQUIPMENT
 PC PROGRESSING CAVITY PUMP
 PCD PRIMARY CLARIFIER DRIVE
 PCFD PRIMARY CLARIFIER FLOCCULATOR DRIVE
 PF POLYMER FEEDER
 PFP POLYMER FEED PUMP
 PLWP PLANT WATER PUMP
 PRCP PHOSPHORUS REMOVAL CHEMICAL PUMP
 PRCT PHOSPHORUS REMOVAL CHEMICAL TANK
 PREP PRIMARY EFFLUENT PUMP
 PRFP PROCESS RETURN FLOW PUMP
 PRSP PRIMARY SLUDGE PUMP
 PTP POLYMER TRANSFER PUMP
 RAD REFRIGERATED AIR DRYER
 RASP RETURN ACTIVATED SLUDGE PUMP
 RDT ROTARY DRUM THICKENER
 RDTF ROTARY DRUM THICKENER FEED PUMP
 RM RAPID MIXER
 SA SAMPLER
 SBFP SODIUM BISULFITE FEED PUMP
 SBST SODIUM BISULFITE STORAGE TANK

SCMP SCUM PUMP
 SCW SCREENINGS WASHER
 SEJ SEWAGE EJECTOR
 SG SLIDE GATE
 SHFP SODIUM HYPOCHLORITE FEED PUMP
 SHST SODIUM HYPOCHLORITE STORAGE TANK
 SLG SLUICE GATE
 SP SUMP PUMP
 SRT SILOXANE REMOVAL TANK
 SSC SCREENINGS SCREW CONVEYOR
 STCP STRUVITE CHEMICAL PUMP
 STG STOP GATE
 STR STRAINER
 SV SOLENOID VALVE
 SWP SCREENINGS WASHER/PRESS
 TV TELESCOPING VALVE
 TWASP TWAS PUMP

FLUID ABBREVIATIONS

A AIR
 BOX BIOXIDE
 BSL BLENDED SLUDGE
 BWW BACKWASH WATER
 CA COMPRESSED AIR
 CNT CENTRATE
 CDG COMPRESSED DIGESTER GAS
 CLS CHLORINE SOLUTION
 CNT CENTRATE
 CW COLD WATER
 CWR CHILLED WATER RETURN
 CWS CHILLED WATER SUPPLY
 D DRAIN
 DEW DISINFECTED EFFLUENT WATER
 DG DIGESTER GAS
 DIV DIVERSION
 DRL DIGESTER RECIRCULATION
 DS DIGESTER SUPERNATANT
 DSL DIGESTED SLUDGE
 DSL MD DIGESTER SLUDGE MIXER DISCHARGE
 DSL MS DIGESTER SLUDGE MIXER SUCTION
 DWB DEWATERED BIOSOLIDS
 EF EXCESS FLOW
 FC FERRIC CHLORIDE
 EFS EXCESS FLOW SOLIDS
 FE FINAL EFFLUENT
 F FORCE MAIN
 G NATURAL GAS
 GR GRIT
 GTS GRAVITY THICKENER SUPERNATANT
 HHGR HEATING HOT GLYCOL RETURN
 HHGS HEATING HOT GLYCOL SUPPLY
 HOCL HYPOCHLORITE
 HW HOT WATER
 HWR HOT WATER RETURN
 HWS HOT WATER SUPPLY
 ML MIXED LIQUOR
 MLW MILL WASTE
 MTW METRO WASTE
 NAOH SODIUM HYDROXIDE
 NPW NONPOTABLE WATER
 OF OVERFLOW
 OC ODOR CONTROL
 PD PLANT DRAIN
 PDP PERFORATED DRAIN PIPE
 PE PLANT EFFLUENT
 PEC POLYELECTROLYTE CHEMICAL
 PER PLANT EFFLUENT REUSE
 PI PLANT INFLUENT
 PRC PHOSPHORUS REMOVAL CHEMICAL
 PRE PRIMARY EFFLUENT
 PRF PROCESS RETURN FLOW
 PRI PRIMARY INFLUENT
 PRS PRIMARY SLUDGE
 PSS PLANT SANITARY SEWER
 PW POTABLE WATER
 PWR PROCESS WATER RETURN
 PWS PROCESS WATER SUPPLY
 RAS RETURN ACTIVATED SLUDGE
 RW RAW WASTEWATER
 SAM SAMPLE
 SAN SANITARY SEWER
 SB SODIUM BISULFITE
 SCM SCUM
 SCMD SCUM DECANT
 SE SECONDARY EFFLUENT
 SH SODIUM HYPOCHLORITE
 SL SLUDGE
 SPD SUMP PUMP DISCHARGE

PLUMBING ABBREVIATIONS

AEW APRON END WALL
 BF BLIND FLANGE
 CA COMPRESSED AIR
 CB CATCH BASIN
 CD CONDENSATE DRAIN
 CI CAST IRON
 CO CLEAN OUT
 COND CONDENSATE
 CPVC CHLORINATED POLYVINYL CHLORIDE
 CW COLD WATER
 D DRAIN
 DDCP DOUBLE CHECK BACKFLOW PREVENTER
 DCW DOMESTIC COLD WATER
 DHW DOMESTIC HOT WATER
 DF DRINKING FOUNTAIN
 DFU DRAINAGE FIXTURE UNIT
 DI DUCTILE IRON
 EEW E EMERGENCY EYEWASH SHOWER
 EW EYEWASH
 EWC ELECTRIC WATER COOLER
 FCO FLOOR CLEAN OUT
 FD FLOOR DRAIN
 FOR FUEL OIL RETURN
 FOS FUEL OIL SUPPLY
 HB HOSE BIBB
 HD HUB DRAIN
 HDPE HIGH DENSITY POLYETHYLENE
 HHGR HEATING HOT GLYCOL RETURN
 HHGS HEATING HOT GLYCOL SUPPLY
 HR HOSE REEL
 HWL HIGH WATER LEVEL
 HW HOT WATER
 HWR HOT WATER RETURN
 IE INVERT ELEVATION
 IWP INDIRECT WASTE PIPE
 L LAVATORY
 MB MOP BASIN
 MH MANHOLE
 MV MUD VALVE
 PHW PROCESS HOT WATER
 P PUMP
 PLW PLANT WATER
 POC POINT OF CONNECTION
 PRV PRESSURE REDUCING VALVE
 PV PLUG VALVE
 PVC POLYVINYL CHLORIDE
 PVR PRESSURE VACUUM RELIEF ASSEMBLY
 QC QUICK CONNECT
 RCP REINFORCED CONCRETE PIPE
 RD ROOF DRAIN
 RL REFRIGERANT LIQUID
 RS REFRIGERANT SUCTION
 RZBP REDUCED ZONE BACKFLOW PREVENTER
 S SINK
 SD SHOWER DRAIN
 SEJ SEWAGE EJECTOR
 SHR SHOWER
 SP SUMP PUMP
 SS STAINLESS STEEL
 SV SOLENOID VALVE
 SVS SERVICE SINK
 T TANK
 TD TRENCH DRAIN
 TW TEMPERED WATER
 U URINAL
 V VENT
 VB VACUUM BREAKER
 VCP VITRIFIED CLAY PIPE
 VTR VENT THRU ROOF
 WCO WALL CLEANOUT
 WC WATER CLOSET
 WH WATER HEATER
 WS WATER SOFTENER
 WSFU WATER SERVICE FIXTURE UNIT

GENERAL/HVAC ABBREVIATIONS

ACH AIR CHANGES PER HOUR
 AFF ABOVE FINISHED FLOOR
 ALT ALTERNATE
 AP ACCESS PANEL
 BTU BRITISH THERMAL UNIT
 BTUH BRITISH THERMAL UNIT PER HOUR
 CFM CUBIC FEET PER MINUTE
 CLG CEILING
 COND CONDENSATE
 DAT DISCHARGE AIR TEMPERATURE
 DB DRY BULB TEMPERATURE
 DDC DIRECT DIGITAL CONTROL
 DG DOOR GRILLE
 DX DIRECT EXPANSION
 EA EXHAUST AIR
 EAT ENTERING AIR TEMPERATURE
 EL ELEVATION
 ESP EXTERNAL STATIC PRESSURE
 EWT ENTERING WATER TEMPERATURE
 FC FAIL CLOSED
 FLA FULL LOAD AMPS

FO FAIL OPEN
 FPI FINS PER INCH
 FPM FEET PER MINUTE
 FT FEET
 GA GAUGE
 GPM GALLONS PER MINUTE
 LAT LEAVING AIR TEMPERATURE
 LWT LEAVING WATER TEMPERATURE
 MBH THOUSANDS OF BTU PER HOUR
 MC MECHANICAL CONTRACTOR
 NA NOT APPLICABLE
 NC NORMALLY CLOSED
 NO NORMALLY OPEN
 NPT NATIONAL PIPE THREAD
 NTS NOT TO SCALE
 OA OUTSIDE AIR
 OC ON CENTER
 OV OUTLET VELOCITY
 PD PRESSURE DROP
 PSI POUNDS PER SQUARE INCH
 PSIG POUNDS PER SQUARE INCH GAUGE
 RA RETURN AIR
 RPM REVOLUTIONS PER MINUTE
 SA SUPPLY AIR
 SP STATIC PRESSURE

HVAC EQUIPMENT ABBREVIATIONS

ACCU AIR COOLED CONDENSING UNIT
 AFR ARCHITECTURAL FINE TUBE RADIATION
 AHU AIR HANDLING UNIT
 AS AIR SEPARATOR
 BLR BOILER
 BB BASEBOARD
 C CONVECTOR
 CD CEILING DIFFUSER
 CHILL CHILLER
 CT COOLING TOWER
 CUH CABINET UNIT HEATER
 CWP CHILLED WATER PUMP
 DA DAMPER
 DC DRY COOLER
 DH DEHUMIDIFIER
 DL DRUM LOUVER
 EBB ELECTRIC BASEBOARD
 EDH ELECTRIC DUCT HEATER
 EF EXHAUST FAN
 EG EXHAUST GRILLE
 EJ EXPANSION JOINT
 EL EXPANSION LOOP
 ER EXHAUST REGISTER
 ERC ELECTRIC REHEAT COIL
 ERU ENERGY RECOVERY UNIT
 EUH ELECTRIC UNIT HEATER
 EWH ELECTRIC WALL HEATER
 FCU FAN COIL UNIT
 FD FIRE DAMPER
 FR FINNED TUBE RADIATION
 FUR FURNACE
 GDF GAS DUCT FURNACE
 GRV GRAVITY ROOF VENTILATOR
 GUH GAS UNIT HEATER
 HC HEATING COIL
 HP HEAT PUMP
 HRP HEAT RECOVERY PUMP
 HU HUMIDIFIER
 HUH HOT WATER UNIT HEATER
 HWP HOT WATER PUMP
 HTX HEAT EXCHANGER
 ICF INDUSTRIAL CEILING FAN
 IR INFRARED HEATER
 L LOUVER
 MAU MAKE-UP AIR UNIT
 P PUMP
 PWP PROCESS WATER PUMP
 RF RETURN FAN
 RG RETURN GRILLE
 RR REGISTER
 RTU ROOFTOP UNIT
 SD SUCTION DIFFUSER
 SF SUPPLY FAN
 SG SUPPLY GRILLE
 SR SUPPLY REGISTER
 ST STEAM TRAP
 SUH STEAM UNIT HEATER
 TCP TEMPERATURE CONTROL PANEL
 TG TRANSFER GRILLE
 UH UNIT HEATER
 UV UNIT VENTILATOR
 VAV VARIABLE AIR VOLUME BOX
 VD VOLUME DAMPER
 VFD VARIABLE FREQUENCY DRIVE
 WSHF WATER SOURCE HEAT PUMP
 XT EXPANSION TANK

ELECTRICAL ABBREVIATIONS

A AMPERE
 AIC AMPERE INTERRUPTING CAPACITY
 ATS AUTOMATIC TRANSFER SWITCH
 AWG AMERICAN WIRE GAUGE
 C CONDUIT
 CAT CATALOG
 CB CIRCUIT BREAKER
 CKT CIRCUIT
 CT CURRENT TRANSFORMER
 DC DIRECT CURRENT
 DISC DISCONNECT
 DWG DRAWING
 EF EXHAUST FAN
 EX EXISTING
 FACP FIRE ALARM CONTROL PANEL
 FLA FULL LOAD AMPERES
 FVNR FULL VOLTAGE NON-REVERSING
 FVR FULL VOLTAGE REVERSING
 G GROUND
 GFI GROUND FAULT INTERRUPTER
 GFIC GROUND FAULT CKT INTERRUPTER
 GRS GALVANIZED RIGID STEEL
 HP HORSEPOWER
 HVAC HEATING, VENTILATING, & AIR CONDITIONING
 HZ HERTZ
 JB JUNCTION BOX
 KCMIL ONE THOUSAND CIRCULAR MILS
 KVA KILOVOLT AMPERES
 KW KILOWATT
 LP LIGHTING PANEL
 MCC MOTOR CONTROL CENTER
 MCB MAIN CIRCUIT BREAKER
 MCM THOUSAND CIRCULAR MILS
 MISC MISCELLANEOUS
 MLO MAIN LUGS ONLY
 N NEUTRAL
 NA NOT APPLICABLE
 NC NORMALLY CLOSED
 NEC NATIONAL ELECTRIC CODE
 NO NORMALLY OPEN
 NSF NATIONAL SANITARY FOUNDATION
 NTS NOT TO SCALE
 OIP OPERATOR INTERFACE PANEL
 OT OVERTEMP
 PR PAIR
 Ø PHASE
 PP POWER PANEL
 PVC POLYVINYL CHLORIDE
 RTS REMOTE TEST SWITCH
 SCADA SUPERVISORY CONTROL AND DATA
 SCC SUPERVISORY CONTROL CENTER
 SE SERVICE ENTRANCE
 SH SHIELDED
 SPD SURGE PROTECTION DEVICE
 SS STAINLESS STEEL
 SV SOLENOID VALVE
 TYP TYPICAL
 UPS UNINTERRUPTIBLE POWER SUPPLY
 V VOLTS
 VFD VARIABLE FREQUENCY DRIVE
 W WIRE OR WATT
 WP WEATHERPROOF
 XFMR TRANSFORMER
 XP EXPLOSION PROOF
 Y WYE

INSTRUMENT-SPECIFIC ELECTRICAL ABBREVIATIONS

BF BUILDING FLOODING
 D DOOR
 DISC DISCONNECT SWITCH
 ESPB EMERGENCY STOP PUSHBUTTON
 ETM ELAPSED TIME METER
 EVSD EMERGENCY VENTILATION SHUT DOWN
 H HORN
 HMA HAZARDOUS MATERIAL ALARM
 HOA HAND-OFF-AUTO SELECTOR SWITCH
 M MAGNETIC
 O/C OVERCURRENT
 O/L OVERLOAD
 O/T OVERTEMPERATURE
 OO ON-OFF SELECTOR SWITCH
 R RADAR
 RST RESET PUSHBUTTON
 SD SUBMERSIBLE DRAWDOWN
 VFD VARIABLE FREQUENCY DRIVE

DATE:					
REVISIONS					
NO.					

ABBREVIATIONS
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
 1275.059
 PROJECT MGR.
 STEVE KLUESNER



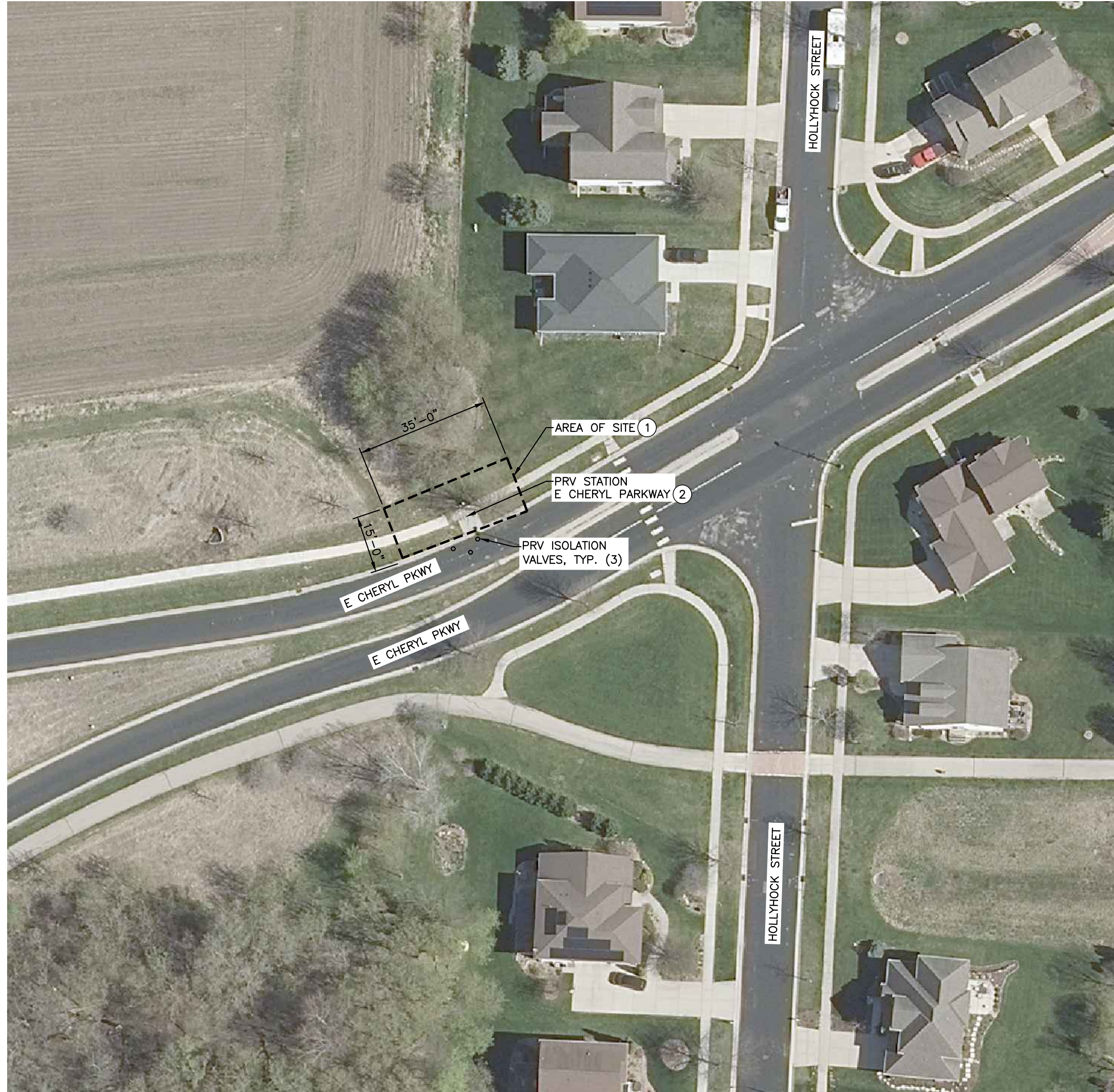
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GENERAL NOTES:

- CONTRACTOR SHALL RESTORE SITE BACK TO PRE-CONSTRUCTION CONDITION.
- CONTRACTOR SHALL PROTECT ALL FLOORS, WALLS, EQUIPMENT, AND PIPING IN FACILITY.

KEY NOTES:

- CONTRACTOR SHALL STAY WITHIN THE LIMITS OF THE SITE SHOWN.
- CONTRACTOR SHALL CLEAN ALL FLOORS, WALLS, DOORS, PIPING, AND EQUIPMENT UPON COMPLETION OF WORK.
- COORDINATE OPERATION OF PRV STATION ISOLATION VALVES WITH OWNER.



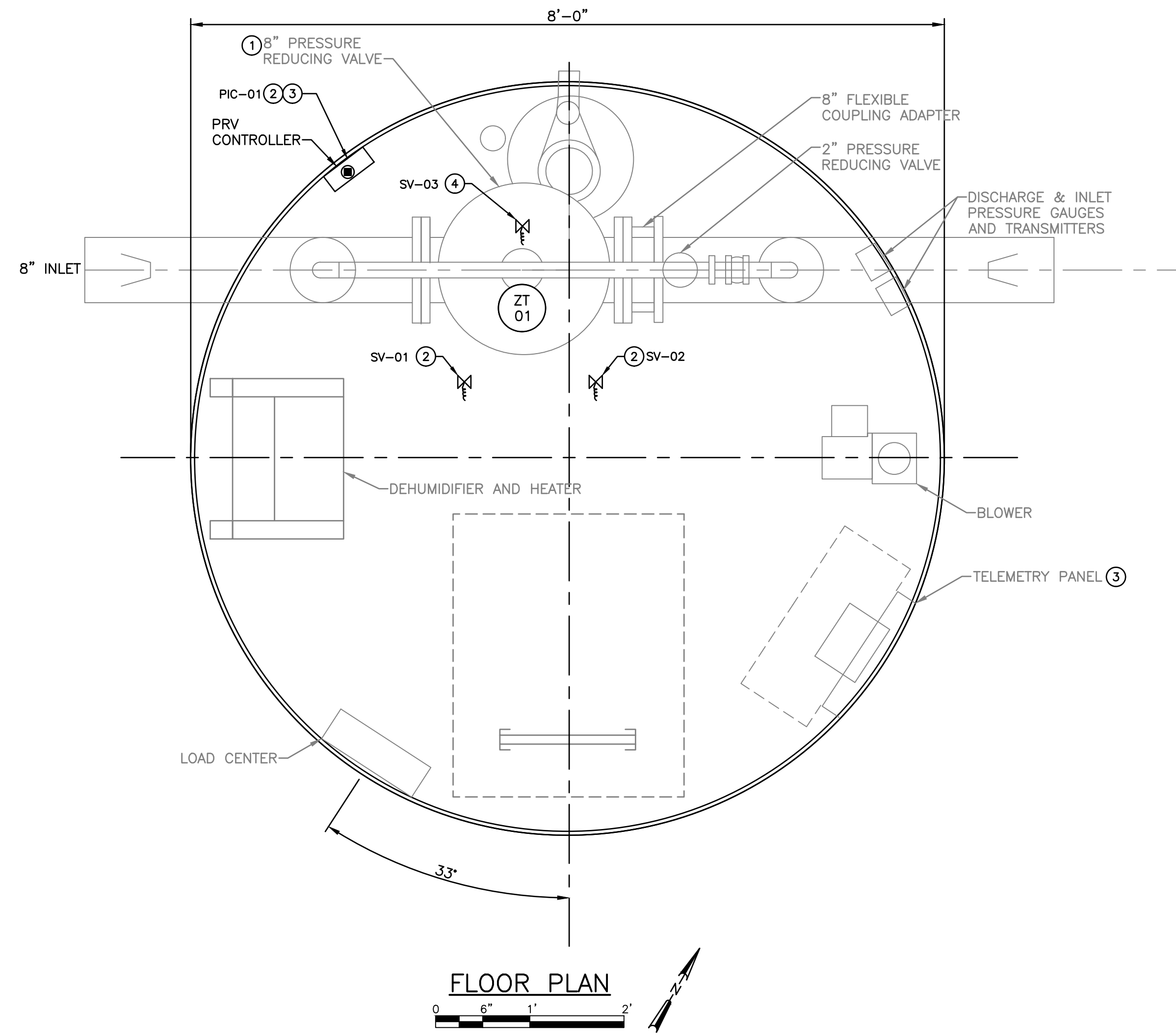
SITE PLAN
 0 5' 10' 20' 40'

GENERAL NOTES:

- COORDINATE SHUTDOWN OF FACILITY, IF REQUIRED, WITH OWNER AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.

KEY NOTES:

- CONVERT 8-INCH PRESSURE RELIEF VALVE TO A DUAL-SOLENOID CONTROL VALVE AS SPECIFIED.
- PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM PIC-01 TO SV-01 AND SV-02 FOR 24VDC POWER.
- PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM TELEMETRY PANEL TO PIC-01 FOR 24VDC POWER.
- PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM TELEMETRY PANEL TO HYDRAULIC LOCKOUT SOLENOID VALVE FOR 24VDC POWER.



FLOOR PLAN
 0 6" 1' 2'

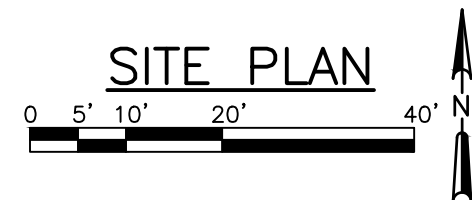
NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2025

SWAN CREEK PRV STATION
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
 1275.059
PROJECT MGR.
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GENERAL NOTES:

1. CONTRACTOR SHALL RESTORE SITE, INCLUDING DRIVE AND LANDSCAPING, AS NECESSARY, BACK TO PRE-CONSTRUCTION CONDITION.
2. CONTRACTOR MAY USE EXISTING ELECTRICAL POWER WITH APPROVAL FROM OWNER. ANY NECESSARY MODIFICATIONS AND CONNECTIONS SHALL BE PROVIDED BY WISCONSIN LICENSED ELECTRICIAN.
3. CONTRACTOR SHALL PROTECT ALL FLOORS, WALLS, EQUIPMENT, AND PIPING IN WELL FACILITY NOT PLANNED FOR REMOVAL OR MODIFICATION.

KEY NOTES:

- ① CONTRACTOR SHALL STAY WITHIN THE LIMITS OF THE SITE SHOWN.
- ② CONTRACTOR SHALL CLEAN ALL FLOORS, WALLS, DOORS, PIPING, AND EQUIPMENT UPON COMPLETION OF WORK.
- ③ PROVIDE AND INSTALL NEW UTILITY POLE FOR SCADA ANTENNA MOUNTING.

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2025

WELL NO. 7 SITE PLAN
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



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GENERAL NOTES:

- SEE SPECIFICATIONS FOR GENERAL DEMOLITION REQUIREMENTS.
- DRAWINGS DO NOT NECESSARILY CALLOUT ALL ITEMS REQUIRING DEMOLITION, REMOVAL, OR PATCHING. WHERE NOT SHOWN, ALL DEMOLITION, REMOVAL, CUTTING, PATCHING, AND CONSTRUCTION SHOWN SHALL BE PROVIDED AS PART OF THE CONTRACT, AS SPECIFIED.
- NOT ALL EXISTING EQUIPMENT OR CONDITIONS SHOWN. ALL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING EQUIPMENT AND CONDUIT.
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS ALL EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT, WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING REUSED SHALL BE CAPPED AND ABANDONED IN PLACE.
- COORDINATE SHUTDOWN OF FACILITY WITH OWNER AND IN ACCORDANCE WITH THE SPECIFICATIONS.

DEMOLITION NOTES:

- A** REMOVE EXISTING HYDROPNEUMATIC PRESSURE TANK AND ALL RELATED AIR RELEASE PIPING, FITTINGS, VALVES, AND APPURTENANCES. REMOVE CONCRETE SUPPORTS TO ±1" BELOW FLOOR SURFACE ON NEAT, PARALLEL LINES AND PATCH FLOOR WITH FLOOR REPAIR TOPPING TO MATCH ADJACENT FLOOR.
- B** REMOVE EXISTING AIR COMPRESSOR, PIPING, AND RELATED APPURTENANCES.
- C** RELOCATE CHEMICAL FEED INJECTION TO AREA SHOWN. REMOVE AND REPLACE INJECTION CORP AND PUMP TUBING.
- D** REMOVE HIGH AND LOW PRESSURE SWITCHES FROM HYDROPNEUMATIC PRESSURE TANK.
- E** REMOVE ANTENNA CABLE AND CONDUIT FROM ANTENNA TO SCC-7.

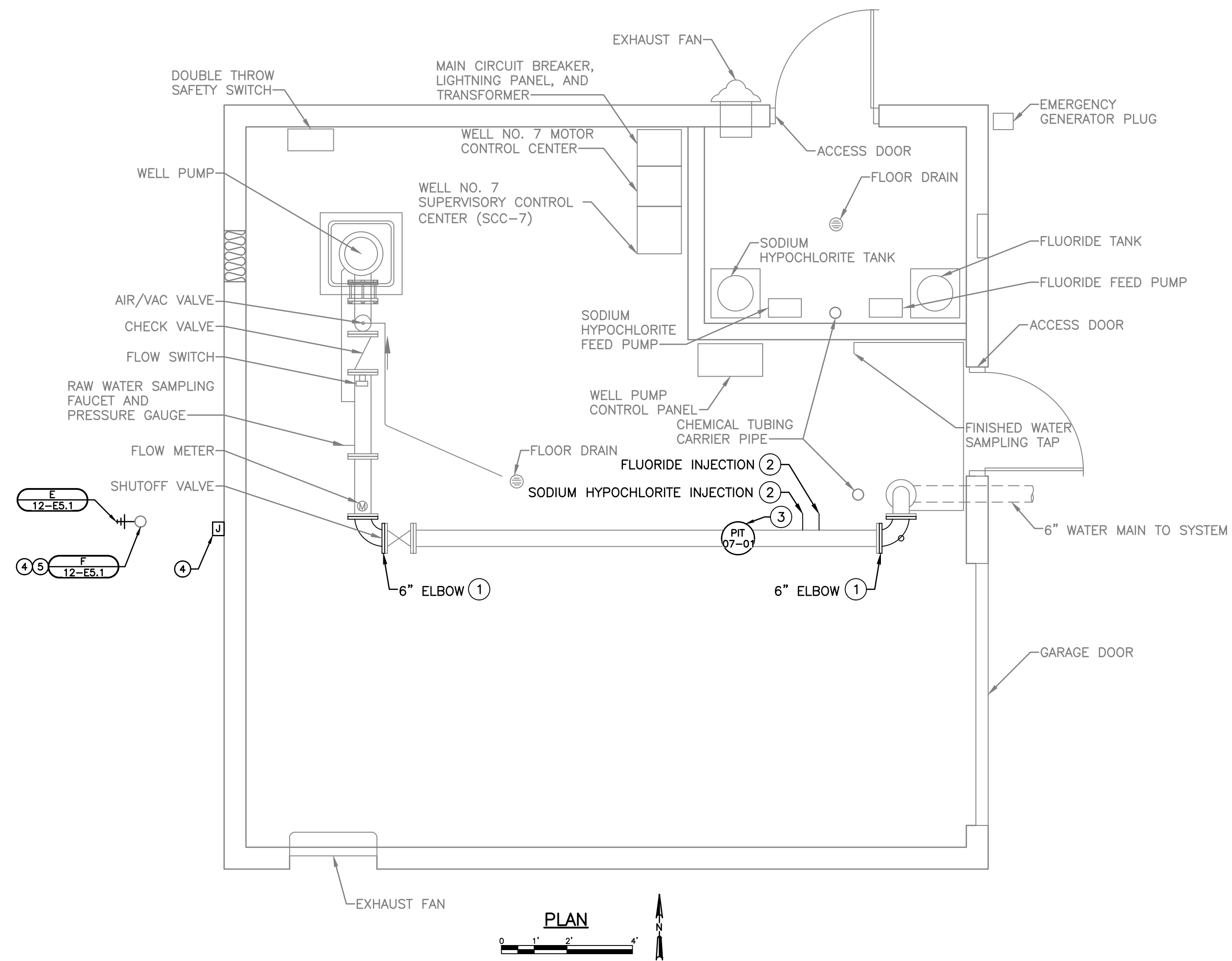
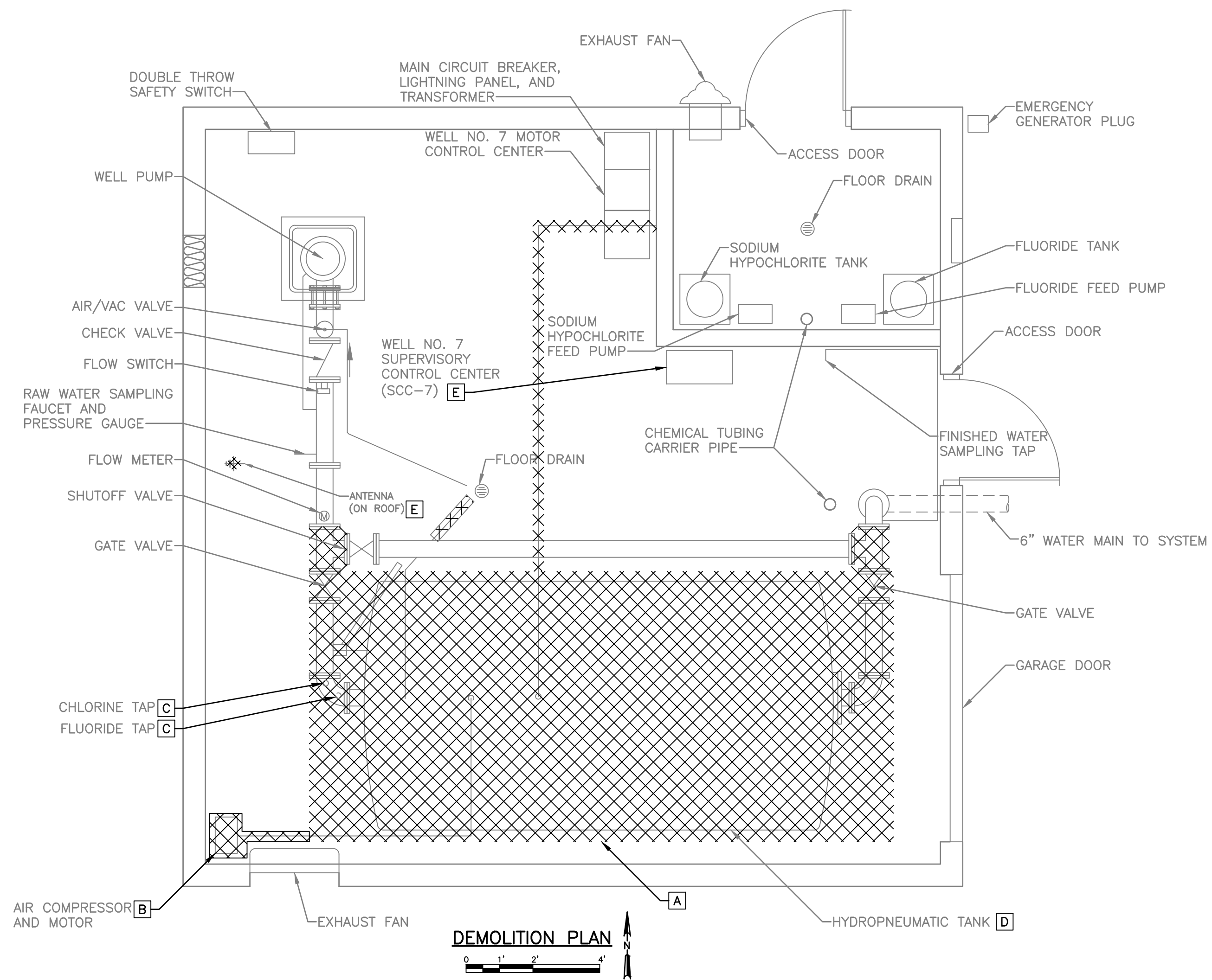
GENERAL NOTES:

- REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
- REFER TO SPECIFICATION SECTION 01 11 00 FOR INFORMATION ON CONSTRUCTION SEQUENCING.

KEYNOTES:

- ① PROVIDE AND INSTALL NEW ELBOW AND PAINT TO MATCH EXISTING.
- ② RELOCATE CHEMICAL INJECTIONS TO PIPE. PROVIDE TAPPING SADDLES AND TAP IN 45 DEGREE DOWNWARD POSITION. REUSE EXISTING CHEMICAL TUBING CARRIER PIPE.
- ③ PROVIDE TAP FOR PRESSURE TRANSDUCER.
- ④ PROVIDE GRADE 4, 35'-0" UTILITY POLE. POLE SHALL BE WESTERN RED CEDAR, SOUTHERN YELLOW PINE, OR NORTHERN RED PINE AND BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE. MOUNT ANTENNA 35'-0" AFG. PROVIDE ANTENNA MAST AS NEEDED FOR TERMINATION OF ANTENNA. ANTENNA CABLE SHALL ENTER ANTENNA MAST THROUGH WEATHERHEAD INSTALLED ON BOTTOM OF CONDUIT AND TERMINATE AT ANTENNA THROUGH WEATHERHEAD AT TOP OF CONDUIT. PROVIDE JUNCTION BOX ON EXTERIOR OF BUILDING FOR CONDUIT BETWEEN ANTENNA POLE AND SCC-7. ANTENNA CABLE SHALL BE INSTALLED IN CONDUIT AND SHALL EXIT CONDUIT THROUGH WEATHERHEAD INSTALLED ON TOP OF CONDUIT.
- ⑤ POLE SHALL BE BURIED MINIMUM 5'-6". BACKFILL EXCAVATION FOR POLE WITH CONCRETE. CONCRETE SHALL COMPLY WITH SPECIFICATION SECTION 03 30 00.

DATE:	1/1/2020
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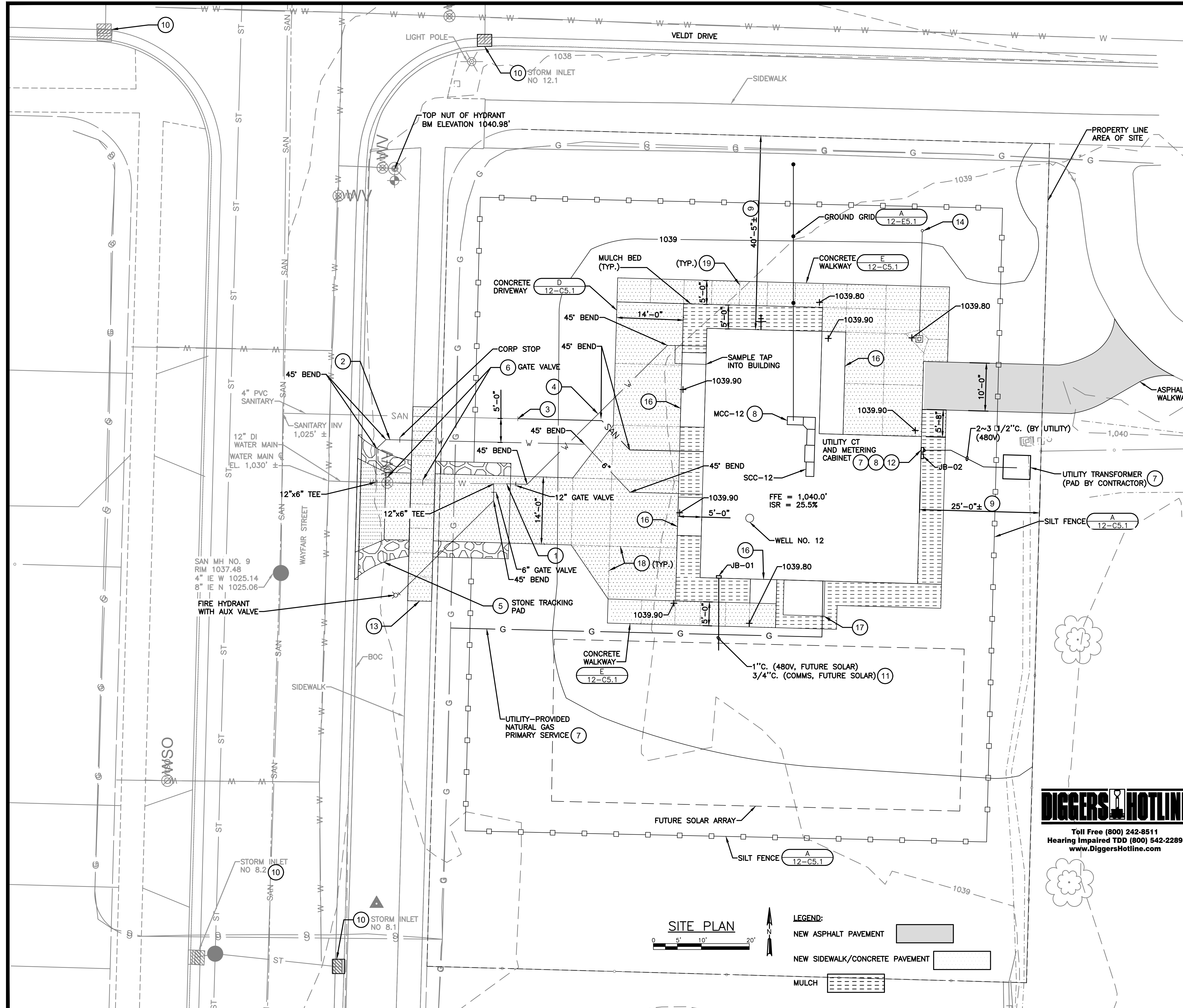


WELL NO. 7 MODIFICATIONS
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
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STEVE KLUESNER

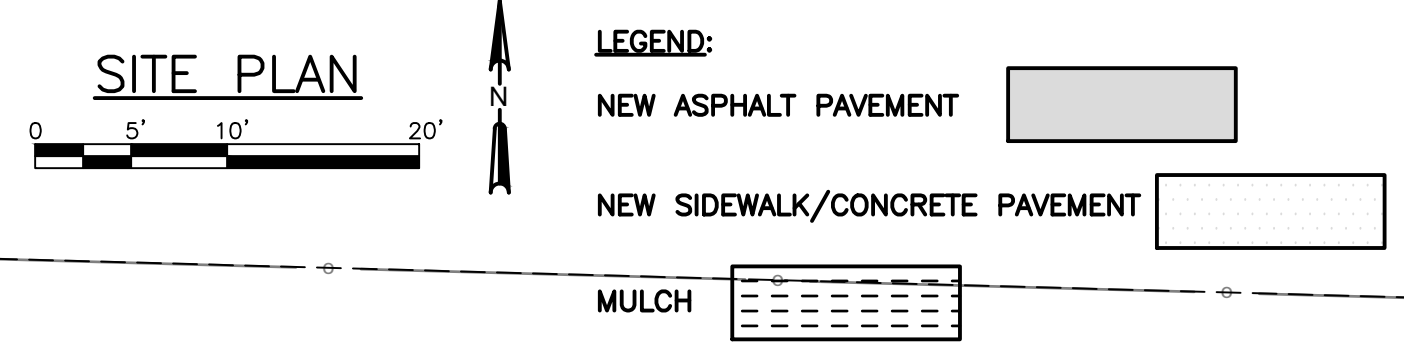


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- GENERAL NOTES:**
1. THESE DRAWINGS DO NOT INDICATE ALL PIPE FITTINGS REQUIRED TO INSTALL YARD PIPING AS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL REQUIRED FITTINGS.
 2. CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES FOR UTILITY LOCATIONS.
 3. AT PIPE CROSSINGS ON ALL SCHEMATIC AND PIPING PLANS, THE PIPE THAT IS BROKEN DOES NOT NECESSARILY DESIGNATE THE RELATIVE LOCATION OF THE PIPES WITH RESPECT TO EACH OTHER.
 4. MAINTAIN WISCONSIN DEPARTMENT OF NATURAL RESOURCES REQUIRED CLEARANCES REGARDING SEPARATION OF WATER MAINS AND SEWER PIPES.
 5. RESTORE AND SEED ALL DISTURBED AREAS AS SPECIFIED.
 6. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE AT MINIMUM A 4 FOOT HIGH SAFETY FENCE AROUND PERIMETER OF SITE. CONTRACTOR SHALL DETERMINE ANY ADDITIONAL MEASURES NECESSARY TO SECURE THE SITE.
 7. REFER TO SHEET 12-E6.1 FOR SPARE CONDUIT SCHEDULE ASSOCIATED WITH THE FUTURE SOLAR PV ARRAY.
 8. LOCATIONS AND ELEVATIONS OF EXISTING PIPING, ELECTRICAL SERVICE, AND OTHER SITE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATIONS OF EXISTING PIPING PRIOR TO INSTALLING NEW PIPING THAT CONNECTS TO EXISTING.
- EROSION CONTROL NOTES:**
1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
 2. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED AS REQUIRED IN THE CITY OF FITCHBURG EROSION CONTROL PERMIT.
 3. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS REQUESTED BY ENGINEER OR GOVERNING AGENCY.

- KEY NOTES:**
- 1 LOCATE EXISTING WATER MAIN AND CONNECT NEW 12" DUCTILE IRON WATER MAIN TO EXISTING 12" WATER MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER MAIN SIZE AND LOCATION PRIOR TO INSTALLING NEW WATER MAIN.
 - 2 6" WATER SERVICE LINE. SEE SHEET 12-P1.1 FOR CONTINUATION. MAINTAIN 5' SEPARATION FROM SANITARY SERVICE.
 - 3 LOCATE EXISTING SANITARY SEWER AND CONNECT NEW SANITARY LATERAL TO EXISTING. CONTRACTOR SHALL FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO INSTALLING NEW LATERAL. PROVIDE FITTINGS AS SPECIFIED.
 - 4 12" WATER MAIN CROSSING OVER SANITARY SEWER SHALL HAVE A MINIMUM 6" VERTICAL SEPARATION FROM THE TOP OF THE SEWER MAIN. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS PRIOR TO LAYING PIPE.
 - 5 CONTRACTOR SHALL MAINTAIN EXISTING STONE TRACKING PAD AS SPECIFIED UNTIL CONCRETE DRIVEWAY AND APRON IS INSTALLED. REMOVE STONE TRACKING PAD AFTER WORK IS COMPLETE.
 - 6 RELOCATE EXISTING 12" GATE VALVE EAST TO SIDEWALK TO ACCOMMODATE NEW WATER SERVICE TAP. COORDINATE OUTAGE WITH OWNER.
 - 7 COORDINATE NEW UTILITY SERVICE WITH UTILITY COMPANY. REFER TO SPECIFICATION SECTION 26 21 00 FOR ADDITIONAL INFORMATION FOR ELECTRIC SERVICE.
 - 8 ELECTRICAL SERVICE CONDUITS TO MCC SHALL BE RUN UNDER FLOOR SLAB AND SHALL NOT BE EXPOSED WITHIN BUILDING.
 - 9 SITE DIMENSION TO BUILDING ARE APPROXIMATE. ALIGN BUILDING FACES WITH PROPERTY LINES. LOCATE BUILDING BASED ON DIMENSIONS FROM WELL AS SHOWN ON 12-ASM1.1.
 - 10 PROVIDE INLET PROTECTION IN ACCORDANCE WITH CITY SPECIFICATION FOR FRAMED INLET PROTECTION AS SPECIFIED.
 - 11 STUB CONDUITS MINIMUM 5' BEYOND CONCRETE WALKWAY AND CAP WATERTIGHT BELOW GRADE.
 - 12 PROVIDE CONDUIT STUB FROM UTILITY CT AND METERING CABINET TO 18" BELOW GRADE FOR SECONDARY CABLING AND CONDUIT BY UTILITY.
 - 13 REPAIR SIDEWALK AREA AS SHOWN IN ACCORDANCE WITH THE CITY SPECIFICATIONS.
 - 14 BURIED DOWNSPOUT. PROVIDE POSITIVE DRAINAGE AWAY FROM THE FACILITY. PROVIDE SWALE AT DISCHARGE LOCATION.
 - 15 PROVIDE CORP STOP TAP IN FINISHED WATER DISCHARGE PIPE FOR FINISHED WATER SAMPLE TAP. BRING SERVICE BACK INTO FACILITY. SEE DRAWING 12-ASM1.1 FOR CONTINUATION.
 - 16 CONCRETE STOOP. SEE DRAWING 12-ASM1.1.
 - 17 CONCRETE EQUIPMENT PAD. SEE DRAWING 12-ASM1.1.
 - 18 CONCRETE DRIVEWAY CONTROL JOINT. 12-C5.1
 - 19 CONCRETE WALKWAY TOOLED JOINT. 12-C5.1



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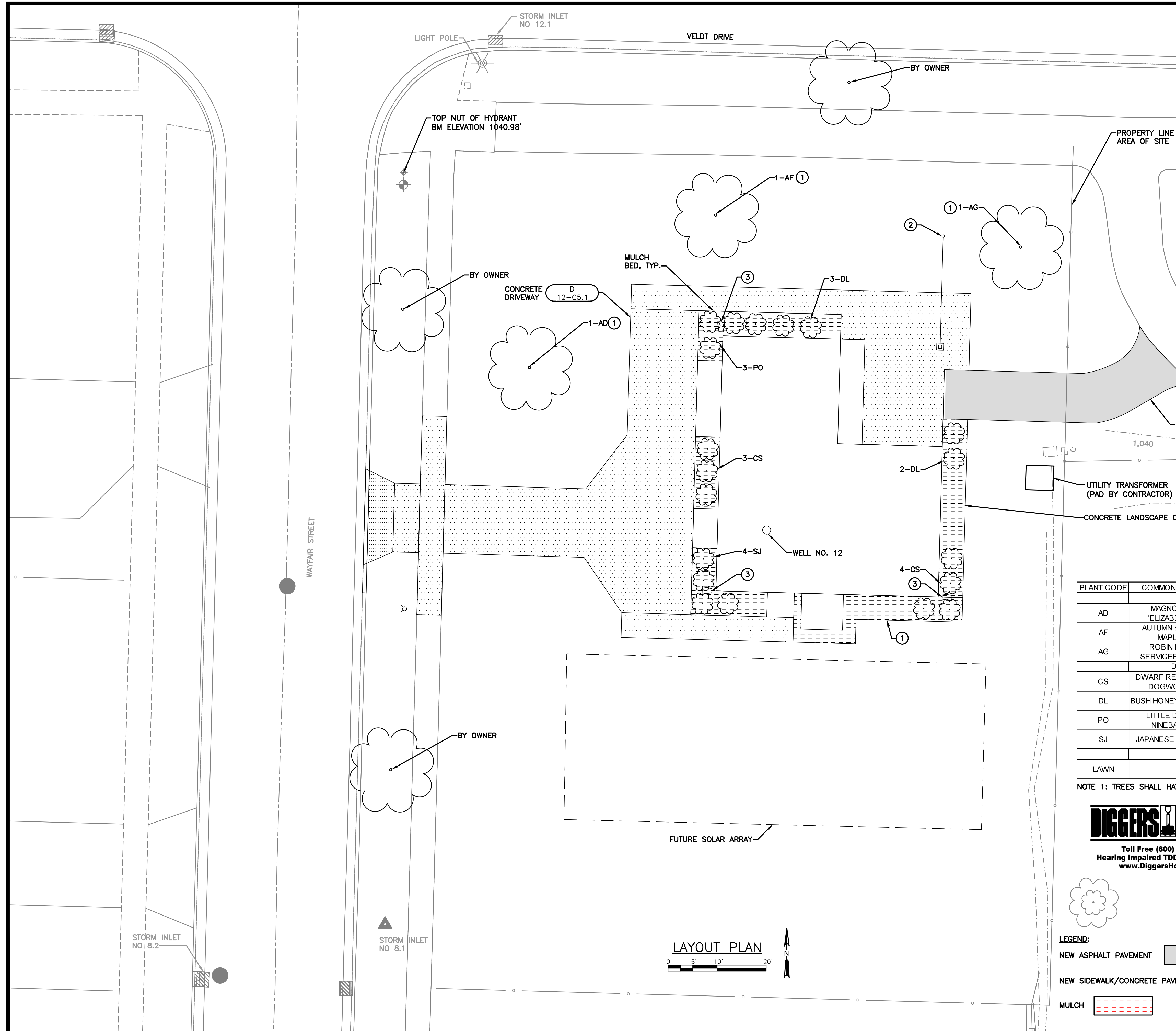
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WELL NO. 12 SITE PLAN
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



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- GENERAL NOTES:**
- ALL PLANTING BEDS AND TREES TO RECEIVE WOOD MULCH AS SPECIFIED.
- KEY NOTES:**
- CONCRETE EDGING SHALL BE MINIMUM 4 INCHES WIDE AND SHALL INCLUDE COLOR TO BE SELECTED BY OWNER. SUBMIT SHAPE AND STAMPING OPTIONS TO OWNER.
 - PROVIDE BURIED DOWNSPOUT WITH MINIMUM 1 PERCENT GARDE AWAY FROM FACILITY. DOWNSPOUT SHALL INCLUDE A CLEANOUT NEAR DOWNSPOUT CONNECTION. TERMINATE END AT GRADE WITH AN ANGLED DISCHARGE FLUSH WITH GRADE.
 - CONCRETE SPLASH PAD G
12-ASM5.2

NO.	REVISIONS	DATE:

PLANT DATA CHART					
PLANT CODE	COMMON NAME	SCIENTIFIC NAME	MULCH RING DIA	QUANTITY	REMARKS
TREES					
AD	MAGNOLIA 'ELIZABETH'	ACUMINATA X DENUDATA	42"	1	GUY OR BRACE
AF	AUTUMN BLAZE MAPLE	ACER X FREEMANII	42"	1	GUY OR BRACE
AG	ROBIN HILL SERVICEBERRY	AMELANCHIER X GRANDIFLORA	42"	1	GUY OR BRACE
DECIDUOUS SHRUBS					
CS	DWARF RED TWIG DOGWOOD	CORNUS SERICEA	PLANTING BED	7	3' SPACING
DL	BUSH HONEYSUCKLE	DIERVILLA LONICERA	PLANTING BED	5	3' SPACING
PO	LITTLE DEVIL NINEBARK	PHYSOCARPUS OPULIFOLIUS	PLANTING BED	3	3' SPACING
SJ	JAPANESE SPIREA	SPIRAEA JAPONICA	PLANTING BED	4	18" O.C. SPACING
GRASS					
LAWN				AS REQ'D	SEE SPECIFICATION AND PLAN

NOTE 1: TREES SHALL HAVE CONCRETE LANDSCAPE CURB.

DIGGERS HOTLINE

Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

LEGEND:

- NEW ASPHALT PAVEMENT
- NEW SIDEWALK/CONCRETE PAVEMENT
- MULCH

WELL NO. 12 LANDSCAPING PLAN

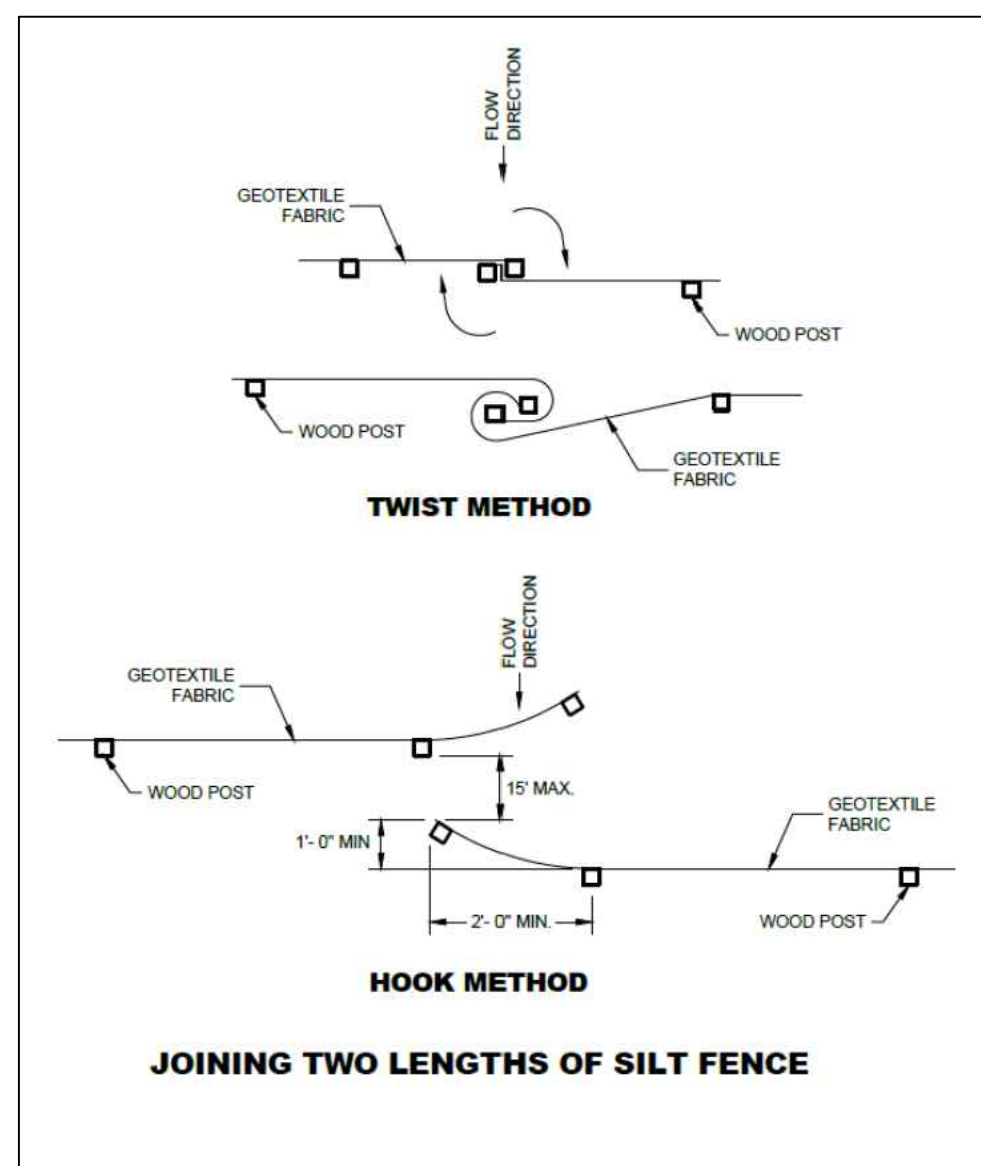
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

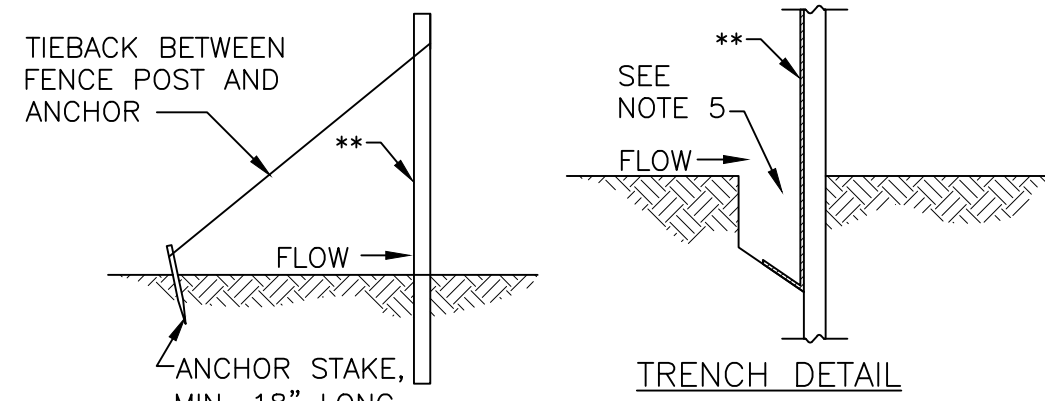
PROJECT MGR.
STEVE KLUESNER



SHEET
9
12-C1.1

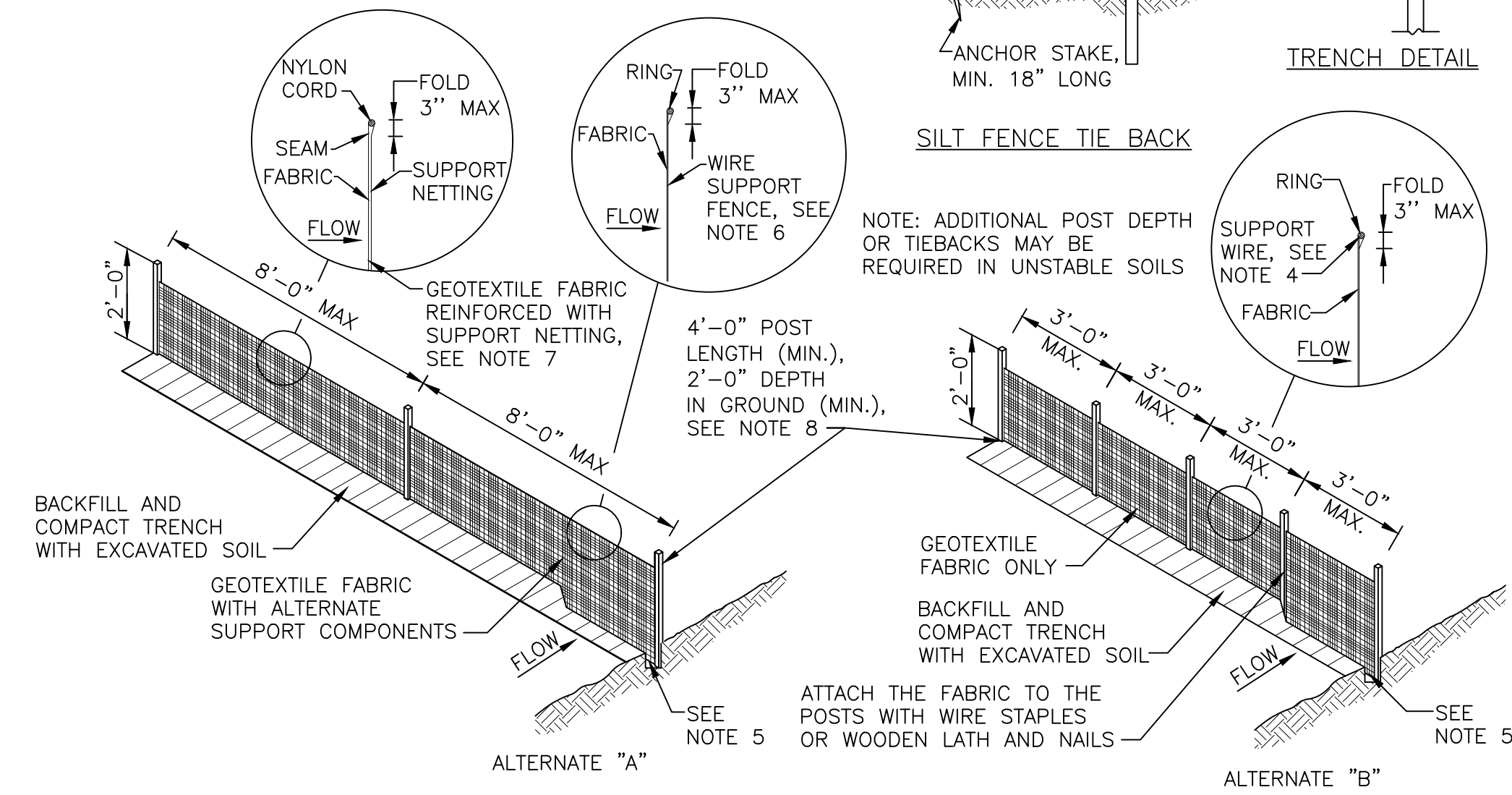


JOINING TWO LENGTHS OF SILT FENCE



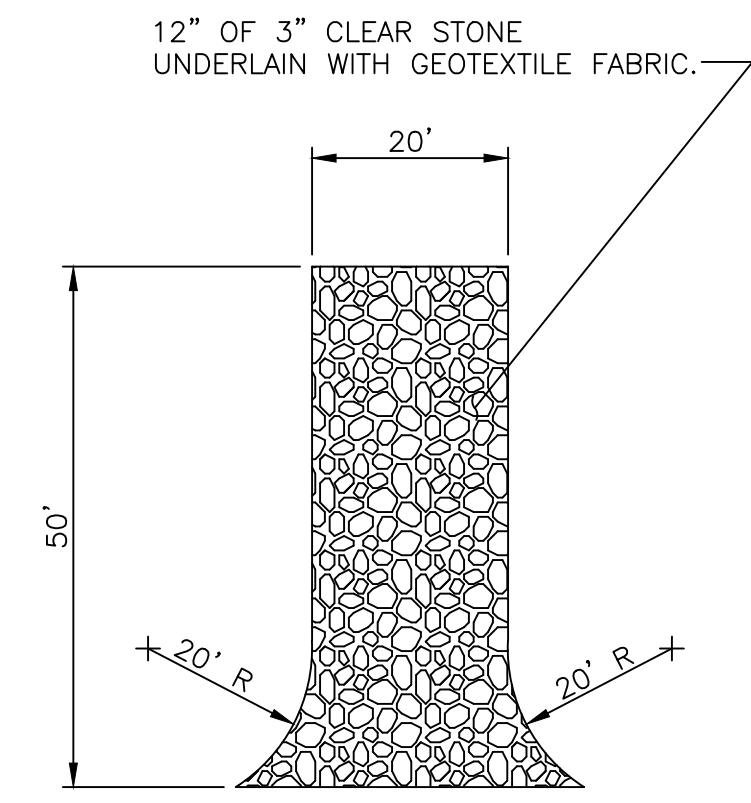
SILT FENCE TIE BACK

TRENCH DETAIL

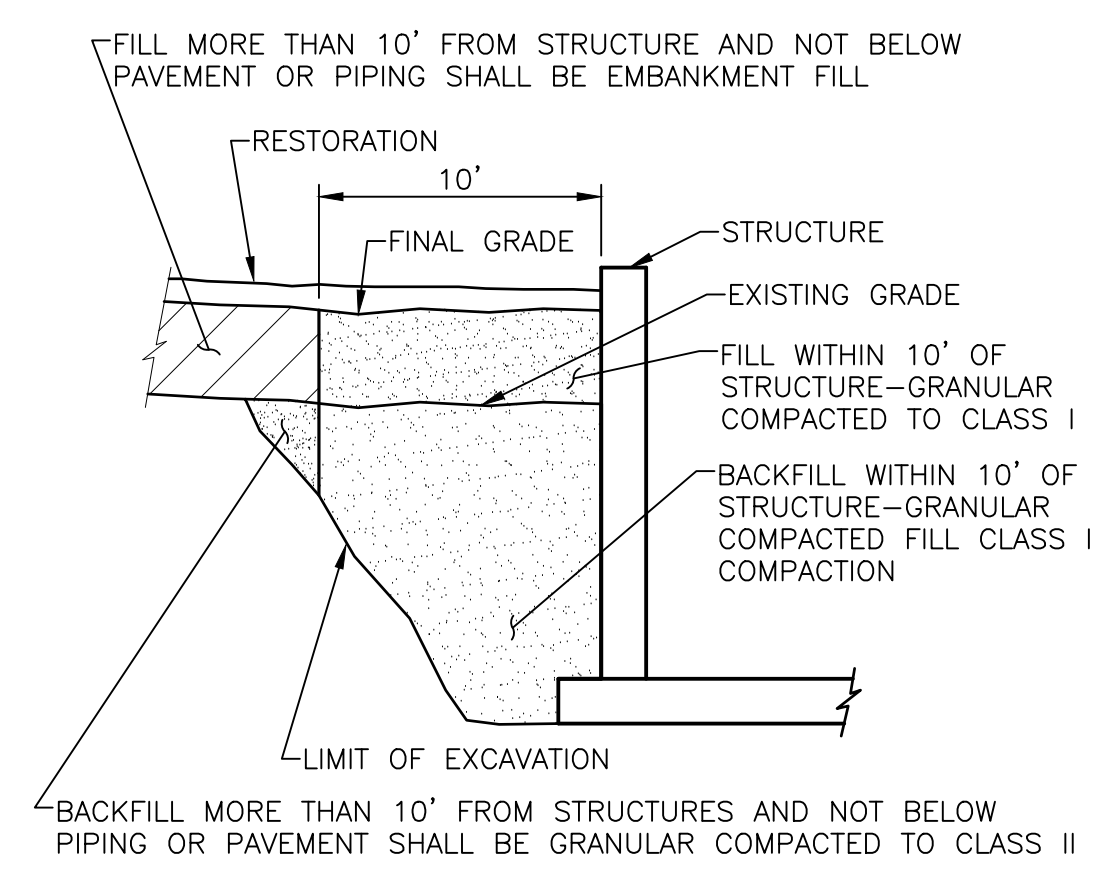


A SILT FENCE DETAILS
12-C5.1 NO SCALE

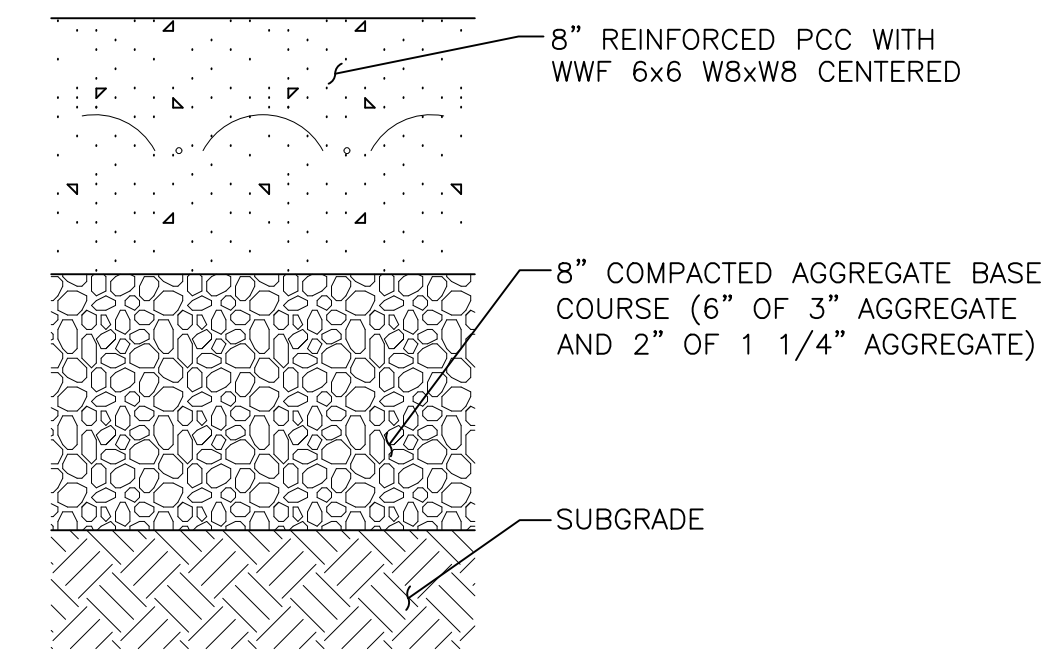
- NOTES:**
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
 2. WHEN POSSIBLE THE SILT FENCE SHALL BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
 3. CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
 4. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
 5. EXCAVATE TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 6. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C TO C.
 7. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
 8. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.2 LBS/LINEAR FOOT WITHOUT ANCHORS, OR ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIAMETER, OR 2 1/2"x3 1/2", EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8"x1 1/8" OAK OR HICKORY.
 9. ALTERNATES "A" AND "B" ARE EQUAL AND EITHER MAY BE USED.



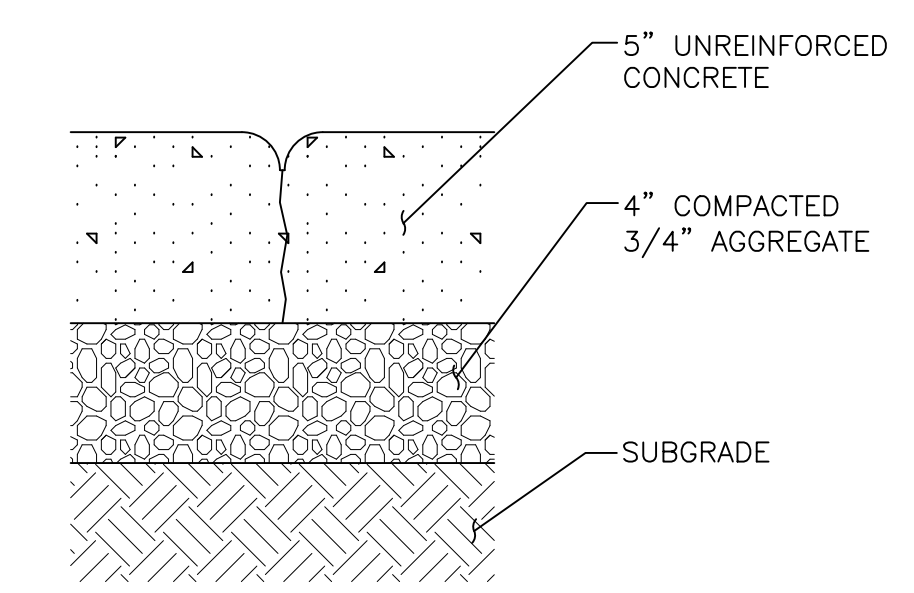
B STONE TRACKING PAD
12-C5.1 NO SCALE



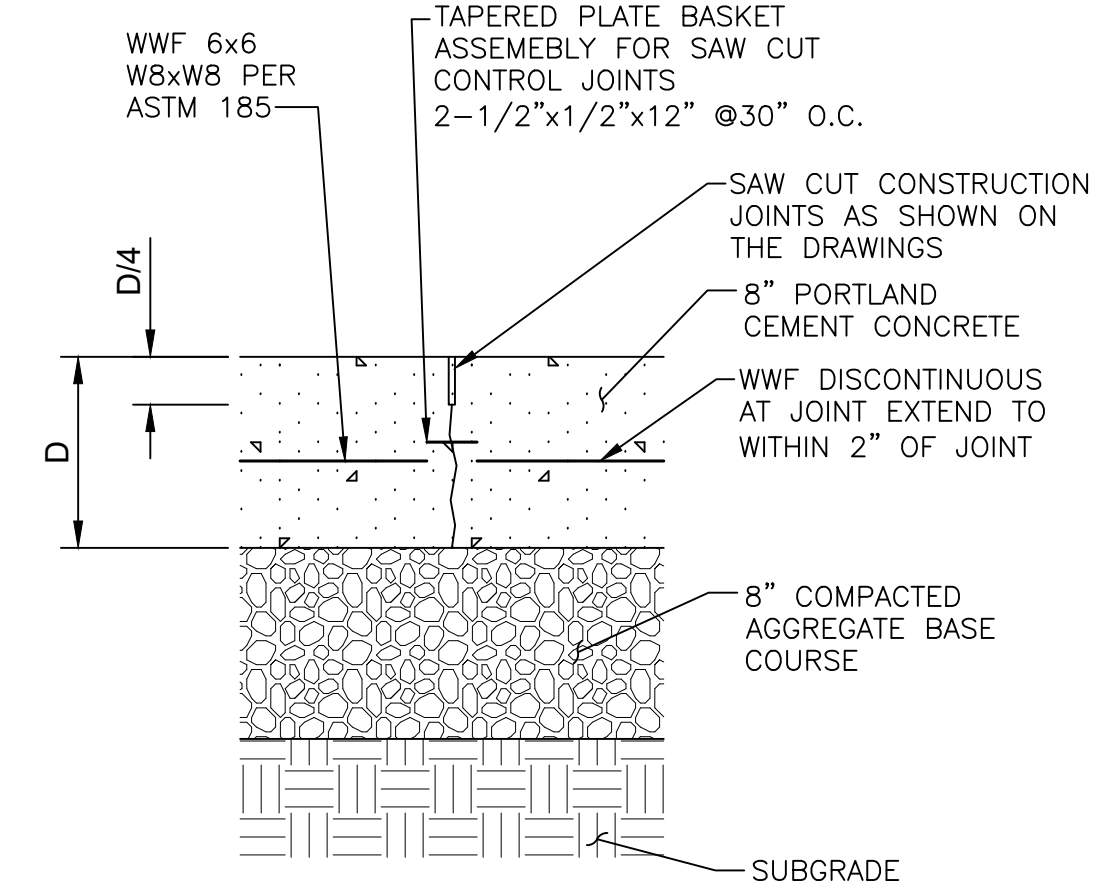
C FILL & BACKFILL REQUIREMENTS
12-C5.1 NO SCALE



D CONCRETE DRIVEWAY
12-C5.1 NO SCALE



E CONCRETE WALKWAY
12-C5.1 NO SCALE



F CONCRETE DRIVEWAY CONTROL JOINT
12-C5.1 NO SCALE

NO.	REVISIONS	DATE
1	ISSUED	8/4/2023

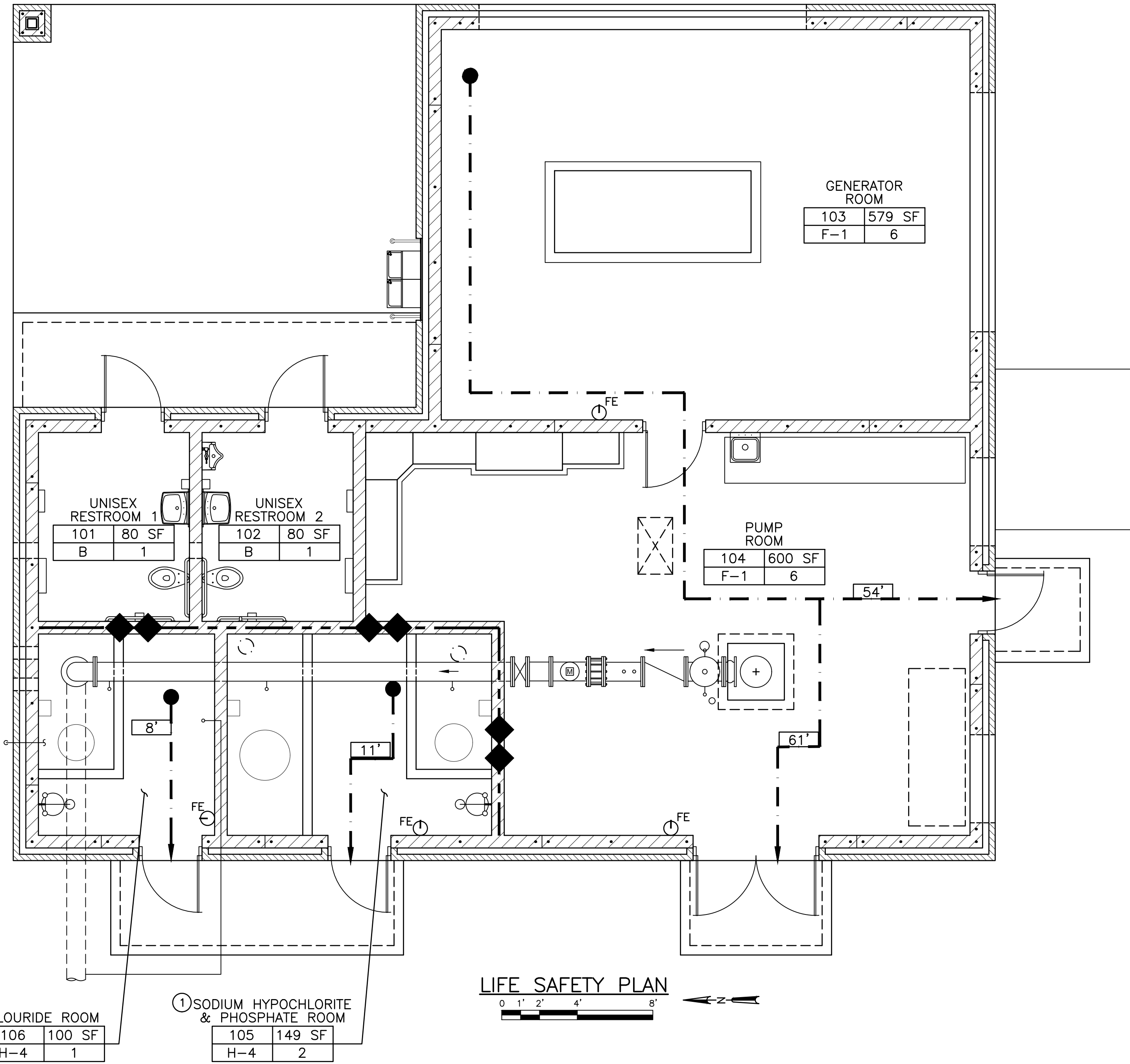
WELL NO. 12 SITE DETAILS - 1

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

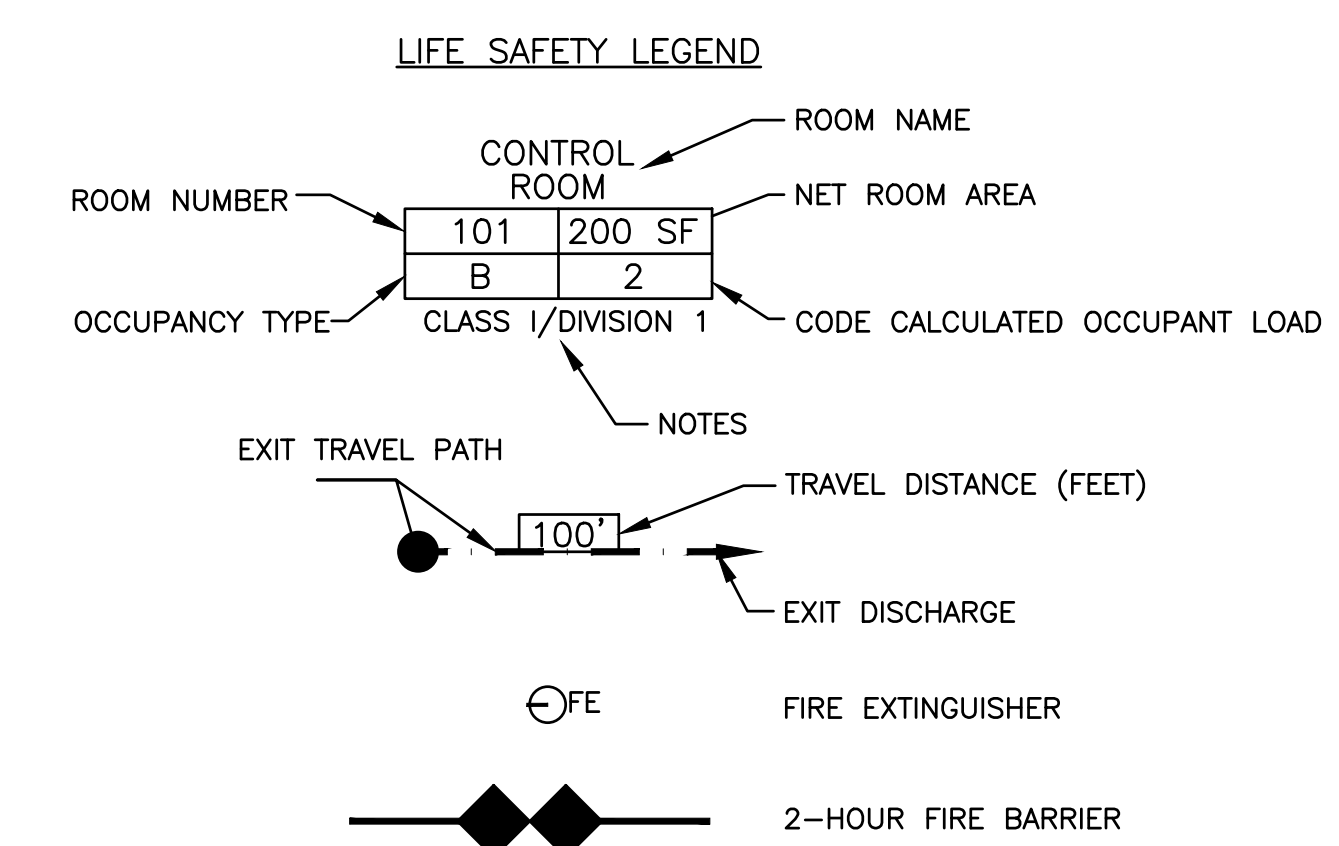
JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
10
12-C5.1



WELL NO. 12 BUILDING CODE INFORMATION			
BUILDING CODE	2015 INTERNATIONAL BUILDING CODE (SPS 362) 2015 INTERNATIONAL MECHANICAL CODE (SPS 364) WISCONSIN PLUMBING CODE (SPS 382) 2015 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE (SPS 316) 2015 INTERNATIONAL FUEL GAS CODE (SPS 365) 2015 INTERNATIONAL ENERGY CONSERVATION CODE (SPS 363) ICC / ANSI A117.1-2010 AND 2015 IBC CHAPTER 11-ACCESSIBILITY		
SCOPE OF WORK:	NEW CONSTRUCTION OF A 1,902 SF MASONRY WELL BUILDING WITH A WOOD TRUSS-FRAMED ROOF.		
OCCUPANCY TYPE	NON-SEPARATED USE		
USE GROUPS	GROUP F-1: MODERATE-HAZARD FACTORY INDUSTRIAL GROUP B: BUSINESS GROUP GROUP H-4: HIGH-HAZARD GROUP		
OCCUPANCY TYPE	V-B		
HAZARDOUS MATERIALS:	PRESENT		
CHEMICAL	CHEMICAL CLASSIFICATION	MAX. CONTROL AREA QUANTITY ^a	ACTUAL QUANTITY ^a
ORTHO POLYPHOSPHATE (AQUA MAG)	NOT HAZARDOUS / NOT CLASSIFIED	N/A	65 GALLONS
SODIUM HYPOCHLORITE (AZONE 15)	CORROSIVE, TOXIC (H-4)	500 LBS (50 GALLONS)	300 GALLONS
HYDROFLUOSILICIC ACID, (23-25%)	CORROSIVE, TOXIC (H-4)	500 LBS (50 GALLONS)	100 GALLONS
NOTES: a. ACTUAL QUANTITY IS FOR COMBINED STORAGE AND CLOSED SYSTEMS USE. b. CONTROL AREA QUANTITY PER TABLE 307.1(1) / 307.1(2).			
OCCUPANCY SEPARATION (NON-SPRINKLERED) F-1/B : H-4 (SPRINKLERED)		FIRE RATING 2 HOURS (NON-SPRINKLERED)	
GENERAL BUILDING INFORMATION			
NO. OF STORIES	ALLOWABLE 1 STORIES	ACTUAL 1 STORY	
HEIGHT	40'-0" FEET	11'-4" @ EAVE, 21'-4" @ RIDGE	
PROJECT AREA			
F-1:	1,179 SF		
B:	160 SF		
H-4:	249 SF		
TOTAL ALLOWABLE AREA PER FLOOR LEVEL	6,500 SF	TOTAL ACTUAL AREA (GROSS SF)	1,902 SF
PUBLIC WAYS OR YARDS ACCESSIBLE FROM 4 SIDES, MIN. 30-FOOT ACCESS WIDTH			
FIRE SUPPRESSION SYSTEM AUTOMATIC FIRE SUPPRESSION SYSTEM (NFPA 13 MODERATE HAZARD) - H-4 OCCUPANCY SPRINKLERED ONLY (CHEMICAL ROOMS). PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY.			
NUMBER OF OCCUPANTS			
OCCUPANT LOAD FACTOR	INDUSTRIAL & BUSINESS AREAS: 100 GROSS		
OCCUPANT CALCULATION - SEE PLANS			
ACTUAL NUMBER OF OCCUPANTS	ZERO PERMANENT OCCUPANTS. ONLY PRESENT DURING MAINTENANCE AND OPERATION.		
EXIT ACCESS TRAVEL DISTANCE	EXIT ACCESS	COMMON PATH	
F-1 (UNSPRINKLERED)	200 FEET	75 FEET	
B (UNSPRINKLERED)	200 FEET	100 FEET ¹	
H-4 (SPRINKLERED)	175 FEET	75 FEET	
EXITS: ALL SPACES/OCCUPANCIES REQUIRE 1 EXIT.			
NOTES: 1. COMMON PATH INCREASE FROM 75 FEET TO 100 FEET PER TABLE 1006.2.1, OCCUPANT LOAD LESS THAN 30.			



KEY NOTES:
① PRECAST PLANK OVER ROOM SHALL BE 2-HOUR FIRE RATED.

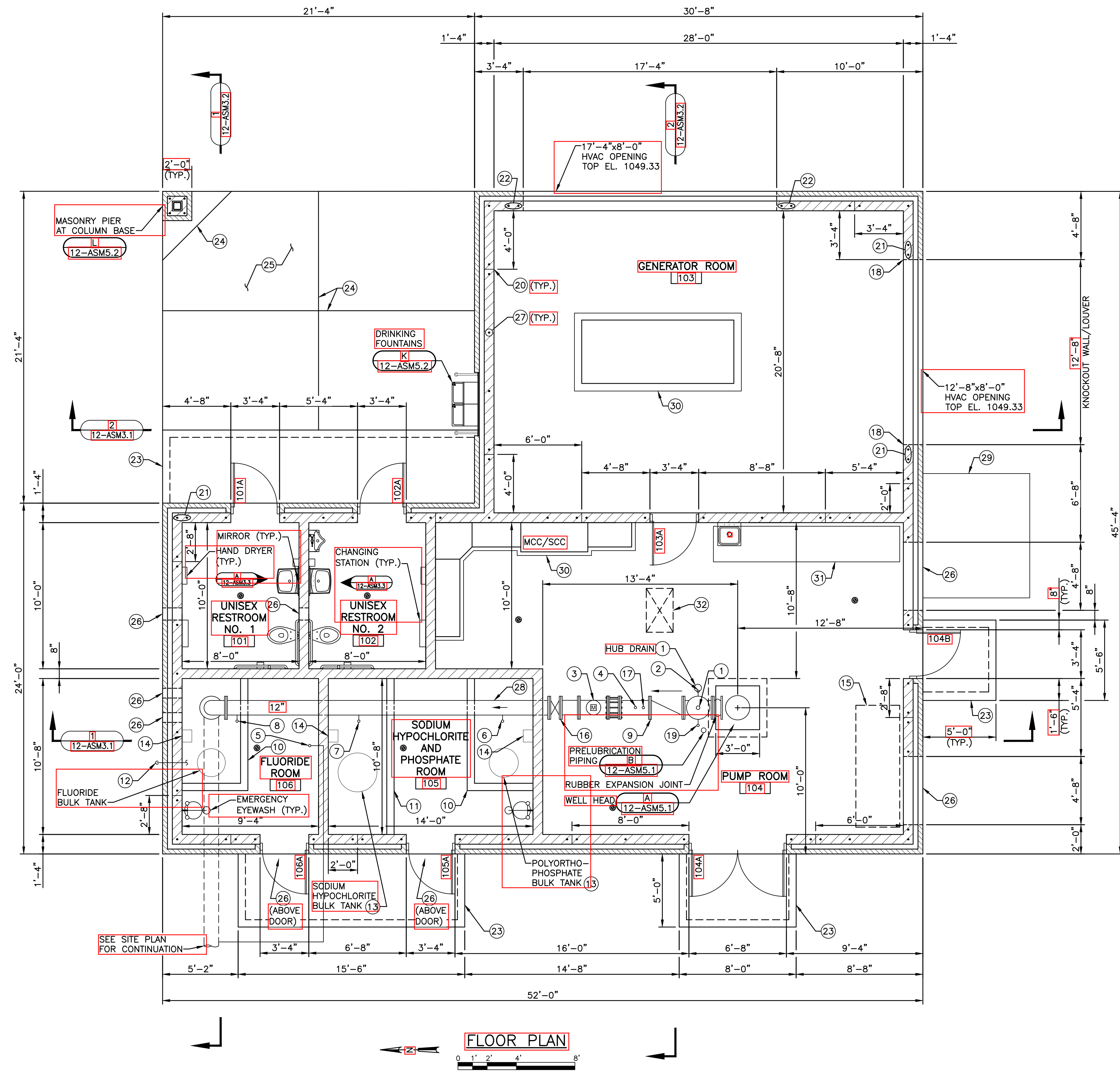
NO.	REVISIONS	DATE	OWNER REVIEW
1		1/1/2020	

WELL NO. 12 CODE SUMMARY AND LIFE SAFETY PLAN
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
11
12-AS1.1



GENERAL NOTES:

1. SEE DRAWING 12-ASM6.1.

KEY NOTES:

- ① 3" WELL SERVICE AIR RELEASE AND VACUUM RELIEF VALVE. PROVIDE ISOLATION VALVES UPSTREAM OF VALVES AND ROUTE 3" VENT SURGE PIPE TO FLOOR DRAIN. TERMINATE VENT DISCHARGE 24" ABOVE FINISHED FLOOR WITH NO. 24 MESH STAINLESS SCREEN.
- ② RAW WATER SAMPLE TAP.
- ③ 12" MAGNETIC FLOW METER.
- ④ 1/2" PIPE TAP, PRESSURE GAUGE AND PRESSURE TRANSDUCER. PROVIDE ISOLATION VALVE UPSTREAM OF TRANSDUCER.
- ⑤ FINISH WATER SAMPLE TAP MOUNTED 3' AFF. PROVIDE CORPORATION STOP ON FINISHED WATER DISCHARGE PIPE AND BRING BACK 3/4" COPPER SERVICE INTO THE BUILDING.
- ⑥ 1/2" POLYORTHO INJECTION TAP. TAP IN LOWER QUADRANT OF PIPE. (C) 12-ASM5.1
- ⑦ 1/2" CHLORINE INJECTION TAP. TAP IN LOWER QUADRANT OF PIPE. (C) 12-ASM5.1
- ⑧ 1/2" FLUORIDE INJECTION TAP. TAP IN LOWER QUADRANT OF PIPE. (C) 12-ASM5.1
- ⑨ 12" SWING CHECK VALVE.
- ⑩ MINIMUM 6" HIGH X 6" WIDE CONCRETE CURB FOR CHEMICAL CONTAINMENT BASIN. PROVIDE CHEMICAL RESISTANT COATING ON BOTTOM OF BASIN AND INSIDE FACES OF CURB PER DIVISION 9. (N) 12-ASM5.2
- ⑪ MINIMUM 8" HIGH X 6" WIDE CONCRETE CURB FOR CHEMICAL CONTAINMENT BASIN. PROVIDE CHEMICAL RESISTANT COATING ON BOTTOM OF BASIN AND INSIDE FACES OF CURB PER DIVISION 9. (N) 12-ASM5.2
- ⑫ 2" RIGID PVC EXHAUST VENTILATION PIPE FROM FLEXIBLE TUBING ON BULK TANK. PROVIDE NECESSARY FITTINGS AND ADAPTER TO MAKE FLEXIBLE TUBING CONNECTION. PIPE SHALL TERMINATE OUTSIDE WITH A NO. 24 MUSH STAINLESS STEEL SCREENED END TERMINATING A MINIMUM 8'-0" ABOVE GRADE.
- ⑬ 2" RIGID PVC EXHAUST VENTILATION PIPE FROM FLEXIBLE TUBING ON BULK TANK. PROVIDE NECESSARY FITTING AND ADAPTER TO MAKE FLEXIBLE TUBING CONNECTION. PIPE SHALL BE ROUTED THROUGH THE CEILING WITH A DOWNWARD FACING NO. 12 MESH STAINLESS STEEL SCREENED END TERMINATING OUTSIDE. PVC PIPE SHALL RUN ALONG THE WALL. (D) 12-ASM5.2
- ⑭ CHEMICAL FEED PUMP AND WALL MOUNTED CHEMICAL FEED PUMP STAND.
- ⑮ SPACE DEDICATED FOR FUTURE SOLAR ARRAY.
- ⑯ 12" BUTTERFLY VALVE.
- ⑰ TAP FOR FLOW SWITCH.
- ⑱ MASONRY CONTROL JOINT TYPE 1 & 2 ALL SIDES OF KNOCKOUT WALL. (D) 12-ASM5.2
- ⑲ 3/4" TAP FOR PUMP WELL RECIRCULATION PIPING DETAIL. (A) 12-ASM5.3
- ⑳ VERTICAL MASONRY CONTROL JOINT TYPE 2. (D) 12-ASM5.2
- ㉑ 2~#4@8" (ONE PER CELL) VERTICAL REINFORCING FULL HEIGHT CENTERED IN WALL. LAP BARS 1'-6". PROVIDE MATCHING DRILLED ADHESIVE ANCHOR DOWELS AT BOTTOM WITH 6" EMBED INTO SLAB. EXTEND BARS 6" INTO BOND BEAM AT TOP OF WALL.
- ㉒ 2~#5@8" (ONE PER CELL) VERTICAL REINFORCING FULL HEIGHT CENTERED IN WALL. LAP BARS 1'-9". PROVIDE MATCHING DRILLED ADHESIVE ANCHOR DOWELS AT BOTTOM WITH 6" EMBED INTO SLAB. EXTEND BARS 6" INTO BOND BEAM AT TOP OF WALL.
- ㉓ CONCRETE STOOP. (U) 12-ASM5.1
- ㉔ SLAB SAWN JOINT. (K) 12-ASM5.1
- ㉕ 6" SLAB-ON-GRADE WITH WWF 6X6 W6XW6 OVER 6" GRANULAR CUSHION. SLOPE SLAB AWAY FROM BUILDING.
- ㉖ HVAC OPENING. SEE H-DRAWINGS AND LINTEL SCHEDULE.
- ㉗ #4@48" REINFORCING. SEE GENERAL NOTES ON 12-ASM6.1 AND WALL SECTIONS.
- ㉘ PROVIDE INSULATED COATINGS ON ALL DUCTILE IRON PIPING AND FITTINGS.
- ㉙ EXTERIOR CONCRETE EQUIPMENT PAD. SEE 12-H1.1. (B) 12-ASM5.3
- ㉚ CONCRETE EQUIPMENT PAD. SEE 12-E1.1.
- ㉛ CONCRETE EQUIPMENT PAD. SEE 12-P1.2. (M) 12-ASM5.1
- ㉜ ATTIC ACCESS ABOVE. (D) 12-ASM5.3

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/17/2020

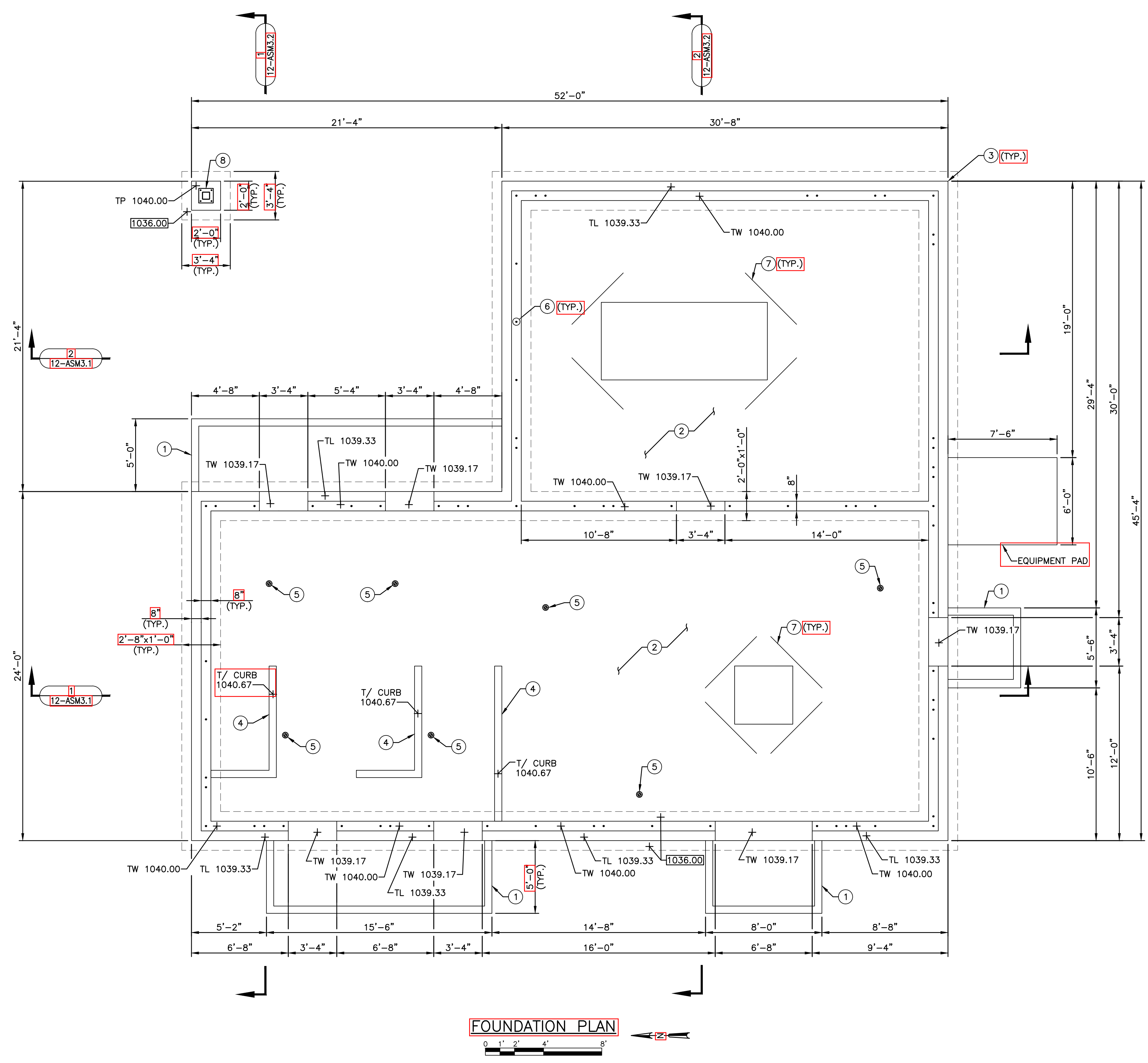
WELL NO. 12 FLOOR PLAN

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
12
12-ASM1.1



- KEY NOTES:**
- (1) CONCRETE STOOP. SEE DETAIL 12-ASM5.1.
 - (2) 6" SLAB-ON-GRADE WITH #4@12" E.W. OVER 2" RIGID INSULATION OVER 6" GRANULAR CUSHION.
 - (3) FOUNDATION WALL CORNER REINFORCING. SEE DETAIL 12-ASM5.1.
 - (4) MINIMUM 8" HIGH x 6" WIDE CONCRETE CURB FOR CHEMICAL CONTAINMENT BASIN. PROVIDE CHEMICAL RESISTANT COATING ON BOTTOM OF BASIN AND INSIDE FACES OF CURB PER DIVISION 9 12-ASM5.2.
 - (5) FLOOR DRAIN. TOP OF SLAB AT DRAIN EL. 1039.17. SLOPE FLOOR IN VICINITY TO DRAIN. SEE DRAWING 12-P1.1.
 - (6) VERTICAL MASONRY WALL REINFORCING ADHESIVE ANCHOR DOWELS. SEE GENERAL NOTES ON 12-ASM6.1 AND WALL SECTIONS.
 - (7) #4 x 5'-0" BAR IN SLAB (TYP. AT CORNERS)
 - (8) COLUMN BASE PLATE. 12-ASM5.2

NO.	REVISIONS	DATE
0	OWNER REVIEW	1/17/2024

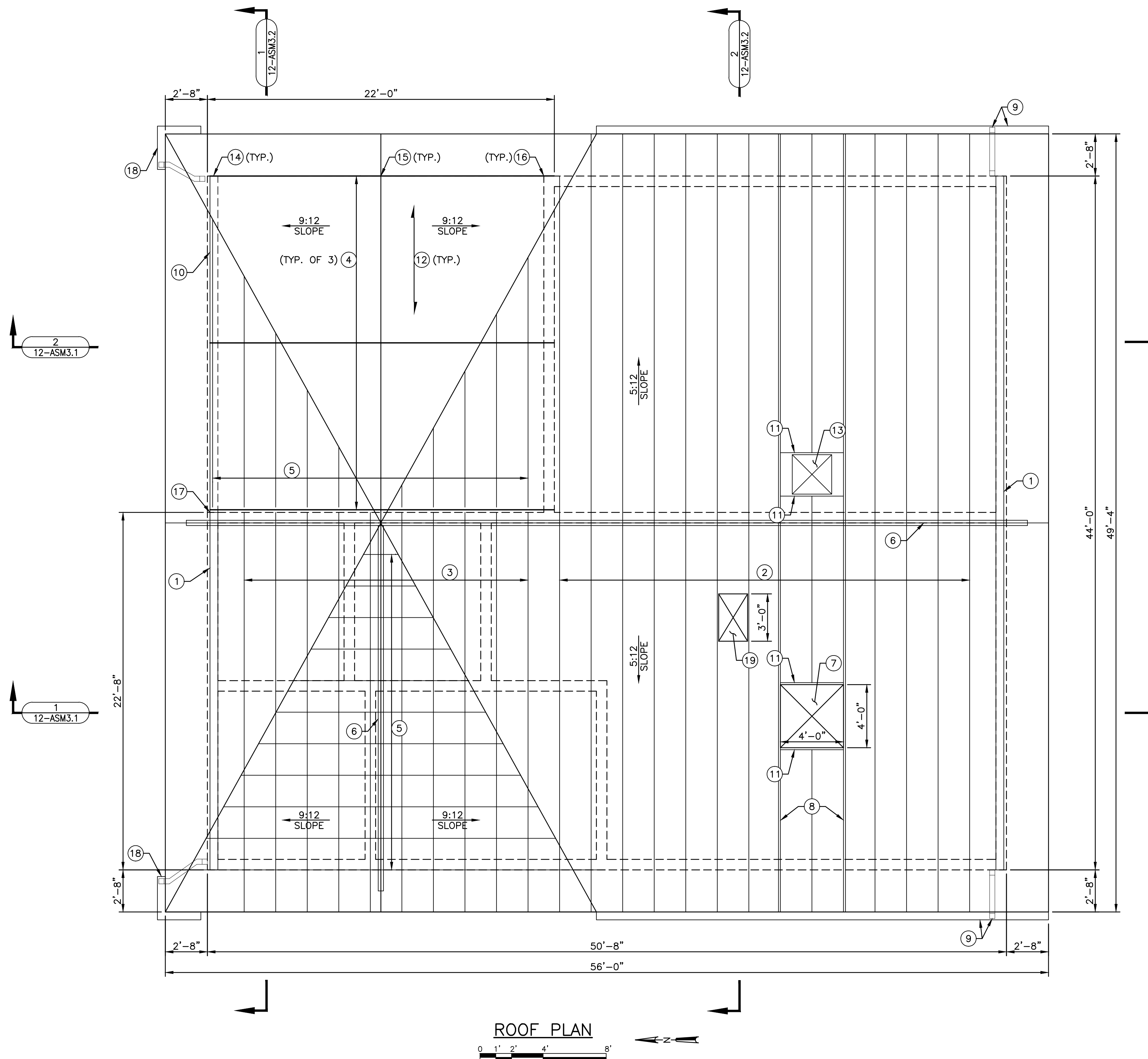
WELL NO. 12 FOUNDATION PLAN

WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
 PROJECT MGR.
STEVE KLUESNER



SHEET
13
12-ASM1.2



GENERAL NOTES:

1. ROOF LOADS:
L=20 PSF
S=33.3 PSF
D=10 PSF
2. ALL GLULAM AND ASSOCIATED CONNECTIONS SHALL BE DESIGNED BY CONTRACTOR.

KEY NOTES:

- ① 2x6 STUDWALL.
- ② COMMON TRUSSES AT 2'-0" O.C.
- ③ STUBBED COMMON TRUSSED AT 2'-0" O.C.
- ④ EXPOSED GLULAM ROOF BEAM. SEE SPECIFICATION 06 18 00.
- ⑤ VALLEY TRUSSES AT 2'-0" O.C.
- ⑥ RIDGE VENT.
- ⑦ 4'-0"x4'-0" SKYLIGHT. COORDINATE OPENING WITH WELL HEAD LOCATION BELOW. COORDINATE OPENING WITH PRECAST PLANK. SEE DETAIL H 12-ASM5.2
- ⑧ 2-PLY TRUSS IF REQUIRED BY TRUSS DESIGNER.
- ⑨ GUTTERS AND DOWNSPOUTS.
- ⑩ EXPOSED GLULAM SUPPORT BEAM BELOW.
- ⑪ HEADER TRUSS TO FRAME OPENING.
- ⑫ 3X6 TONGUE AND GROOVE ROOF DECKING SPANNING CONTINUOUSLY OVER ROOF BEAMS. SEE SPECIFICATION 06 18 00.
- ⑬ HVAC OPENING. SEE H-DRAWINGS.
- ⑭ BEAM-TO-BEAM CONNECTION. 5 12-ASM3.3
- ⑮ GLULAM ARCH CONNECTION. 6 12-ASM3.3
- ⑯ BEAM-TO-CONCRETE CONNECTION. 2 12-ASM3.3
- ⑰ BEAM-TO-MASONRY CONNECTION. 7 12-ASM3.3
- ⑱ GUTTERS AT GABLE RETURNS. HAND FRAME CORNER OVERHANG. (TYP. AT NW & NE CORNERS)
- ⑲ ATTIC ACCESS BETWEEN ROOF TRUSSES. D 12-ASM5.3

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 ROOF TRUSS PLAN

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CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

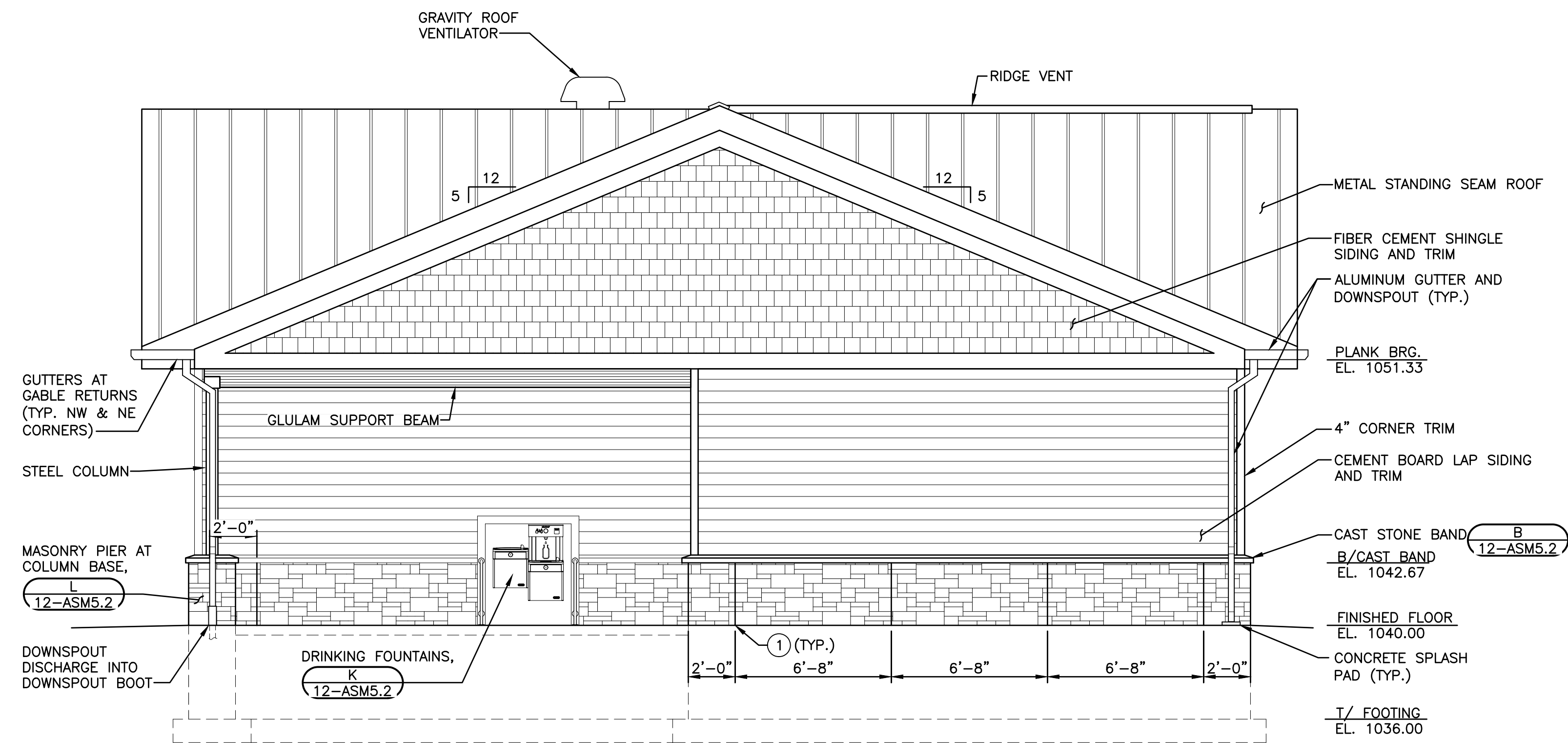
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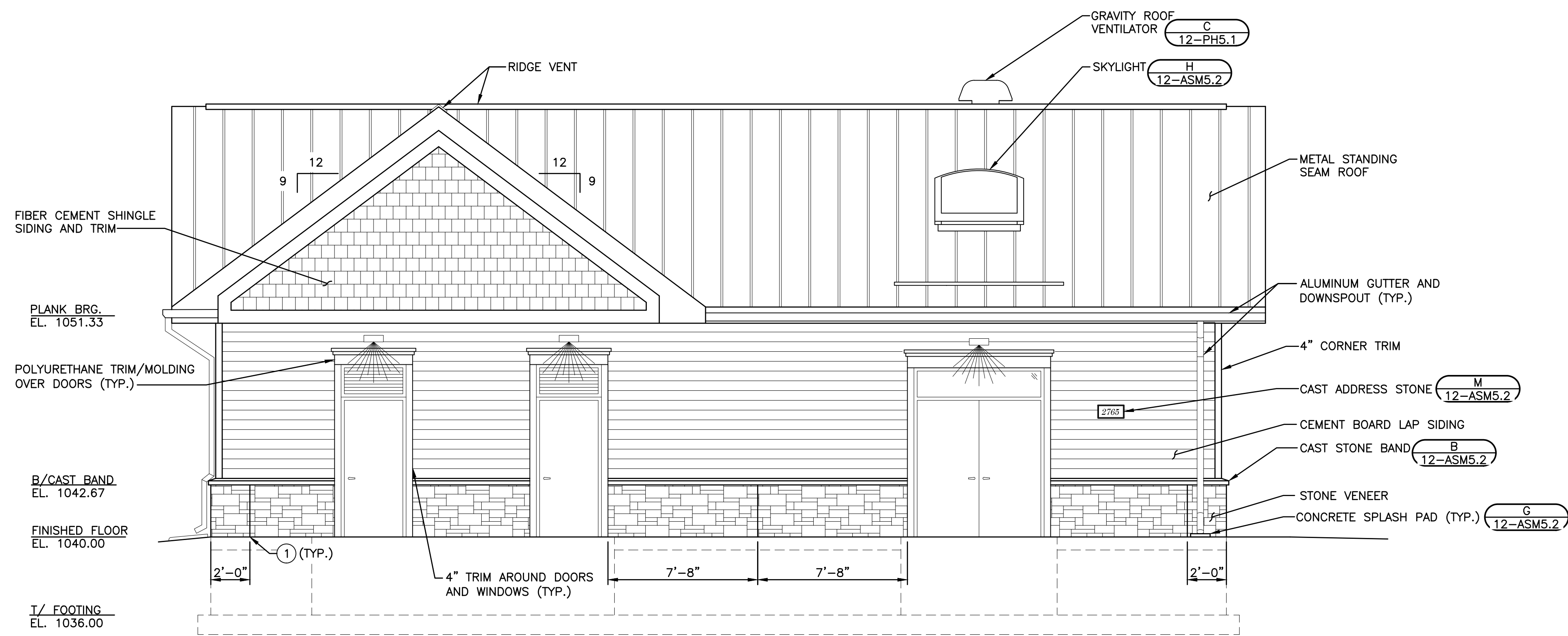
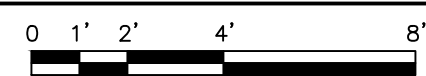
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12-ASM1.4

KEY NOTES:

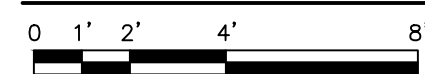
- ① MASONRY CONTROL JOINT TYPE 1. D
12-ASM5.2



NORTH ELEVATION



WEST ELEVATION



NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 BUILDING ELEVATIONS - 1

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

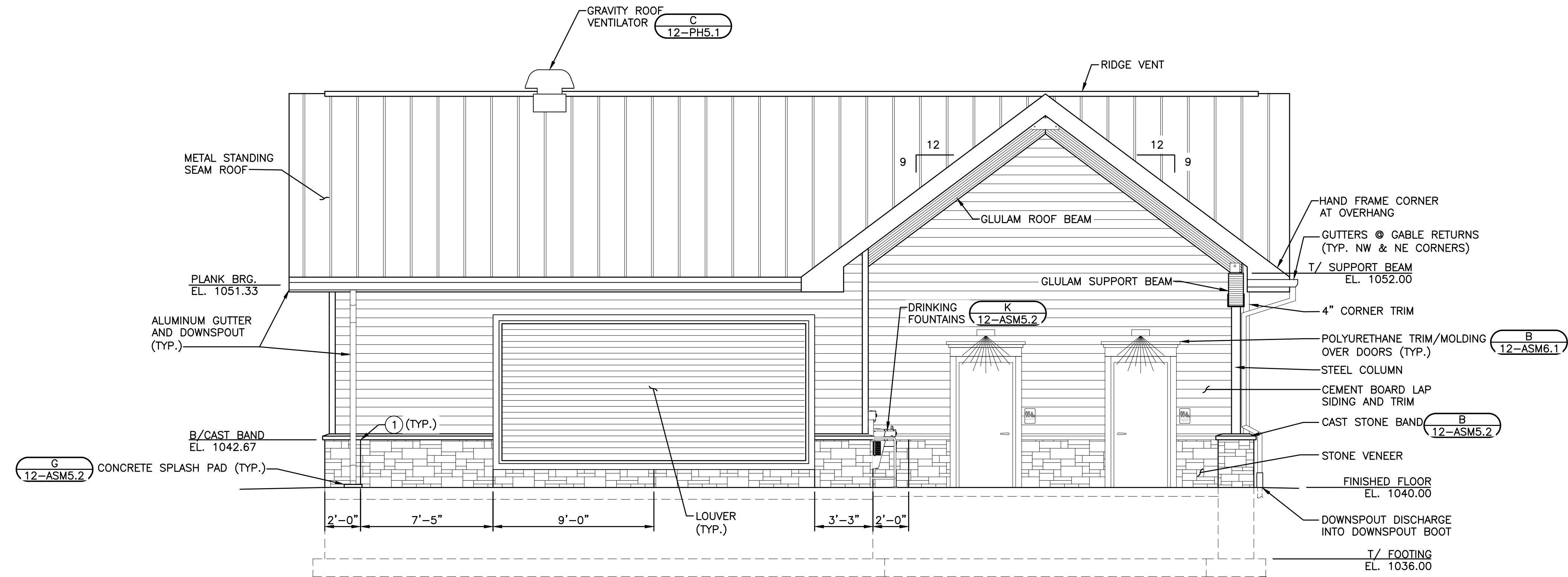
JOB NO.
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STEVE KLUESNER



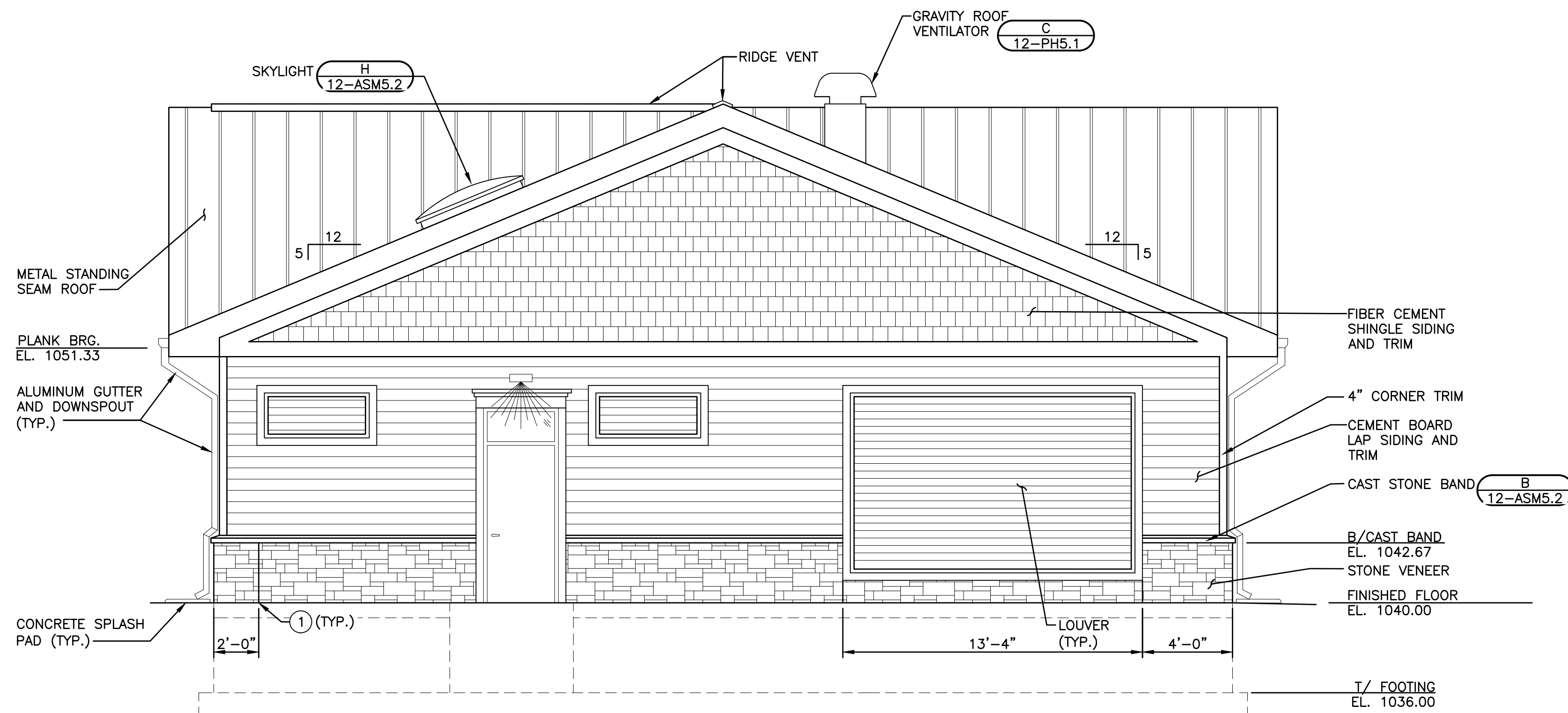
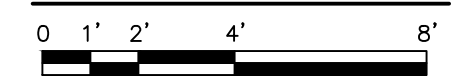
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16
12-ASM2.1

KEY NOTES:

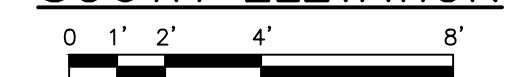
- ① MASONRY CONTROL JOINT TYPE 1. D
12-ASM5.2



EAST ELEVATION



SOUTH ELEVATION



NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 BUILDING ELEVATIONS - 2

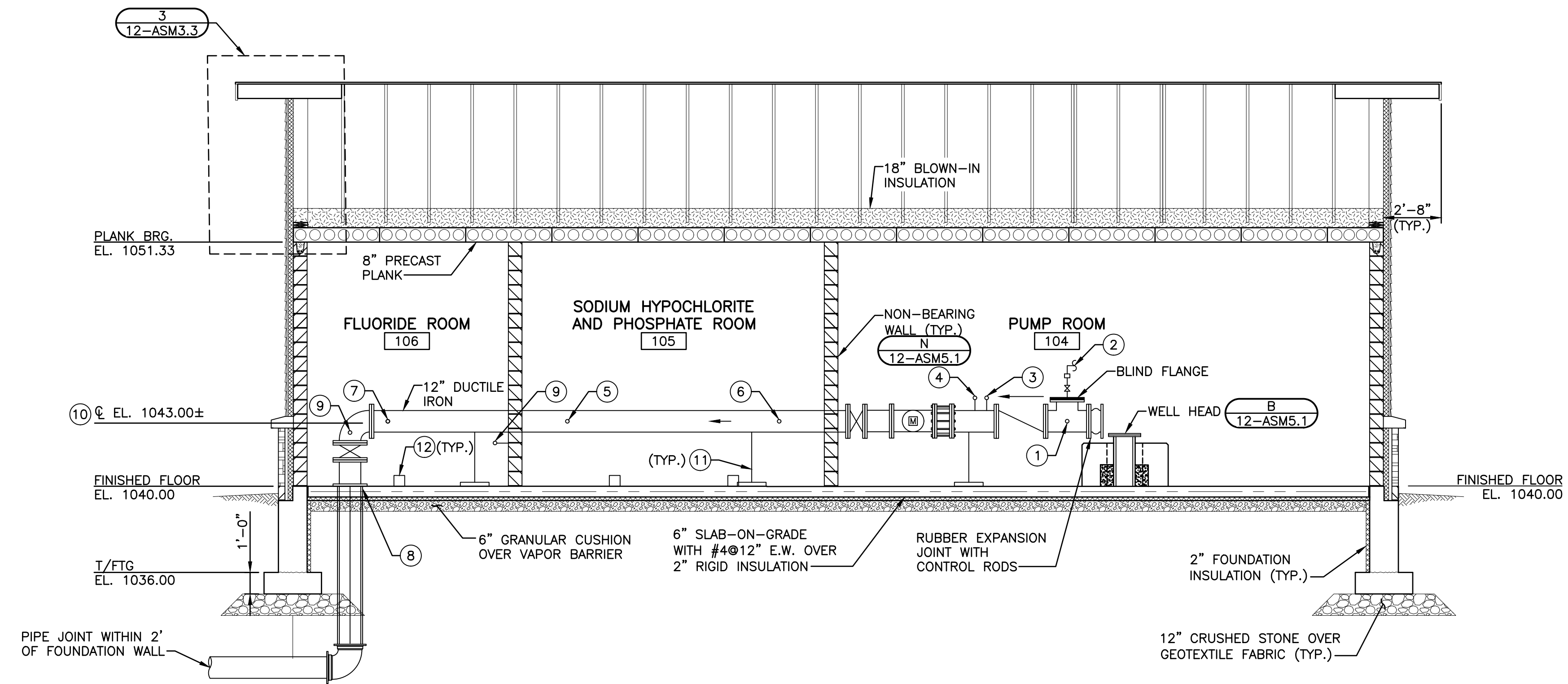
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CITY OF FITCHBURG
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1275.059

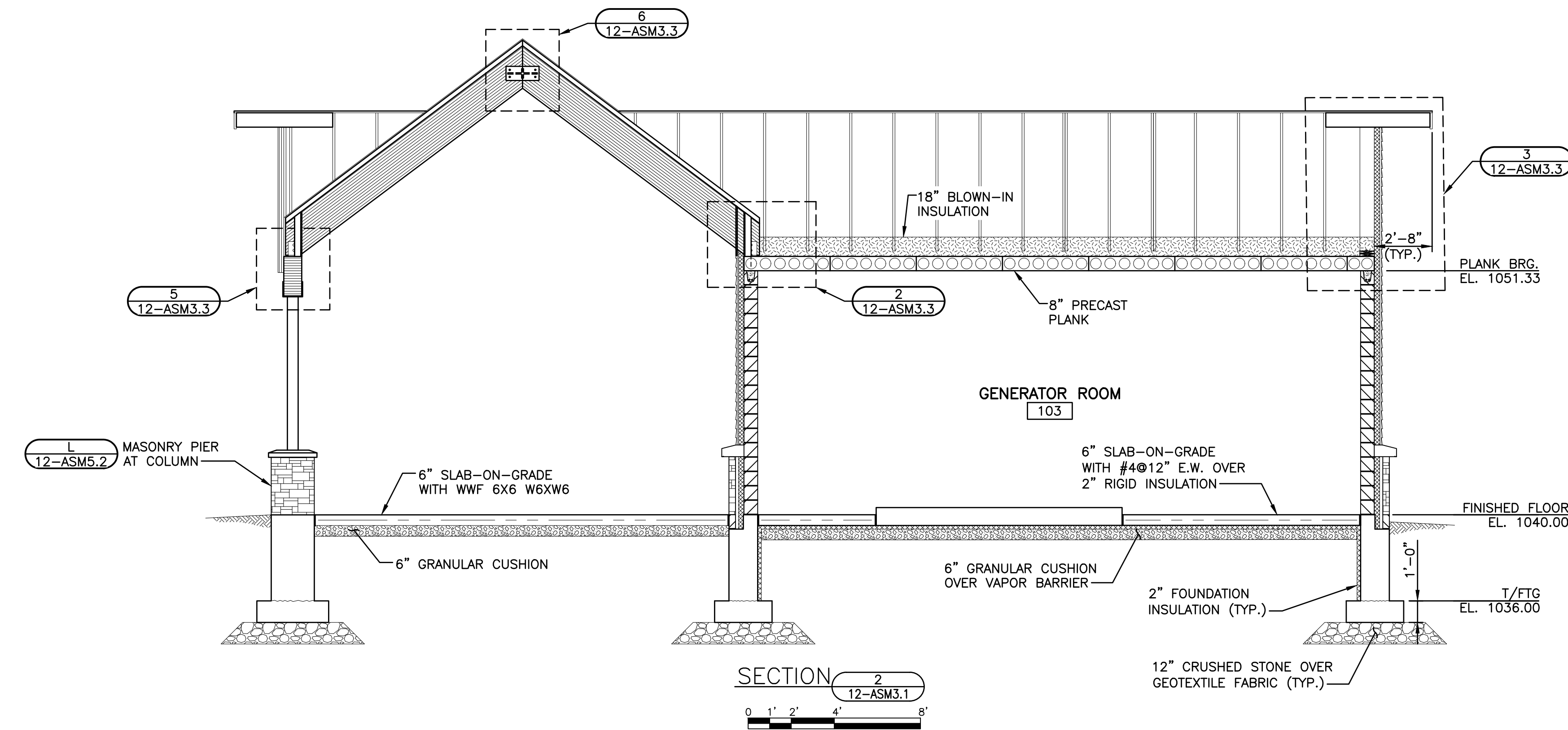
PROJECT MGR.
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SHEET
17
12-ASM2.2



SECTION 1
12-ASM3.1



SECTION 2
12-ASM3.1

KEY NOTES:

- ① RAW WATER SAMPLE TAP.
- ② 3" COMBINATION VACUUM AND AIR RELEASE VALVE. PROVIDE ISOLATION VALVE UPSTREAM OF AIR RELEASE VALVE. ROUTE DISCHARGE 24" ABOVE FINISHED FLOOR AND ABOVE HUB DRAIN WITH #24 STAINLESS STEEL MESH SCREEN.
- ③ TAP FOR FLOW SWITCH.
- ④ 1/2" PIPE TAP, PRESSURE GAUGE AND PRESSURE TRANSDUCER. PROVIDE ISOLATION VALVE UPSTREAM OF TRANSDUCER.
- ⑤ SODIUM HYPOCHLORITE TAP IN LOWER HALF OF PIPE.
- ⑥ ORTHOPOLYPHOSPHATE TAP IN LOWER HALF OF PIPE.
- ⑦ FLUORIDE TAP IN LOWER HALF OF PIPE.
- ⑧ RESTRAIN PIPE TO FLOOR WITH DUCTILE IRON THREADED TIE RODS.
- ⑨ FINISHED WATER SAMPLE TAP. FAUCET SHALL BE A MINIMUM 18" ABOVE FINISHED FLOOR.
- ⑩ FINAL PIPE CENTERLINE ELEVATION SHALL BE BASED ON WELL PUMP BASE AND DISCHARGE HEAD DIMENSIONS WITH A MINIMUM PIPE CENTERLINE ELEVATION 3'-0" ABOVE FINISHED FLOOR.
- ⑪ PIPE SUPPORTS EVERY 8'-0" AND AS SPECIFIED.
- ⑫ CHEMICAL CONTAINMENT CURB. (N 12-ASM5.2)

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 SECTIONS - 1

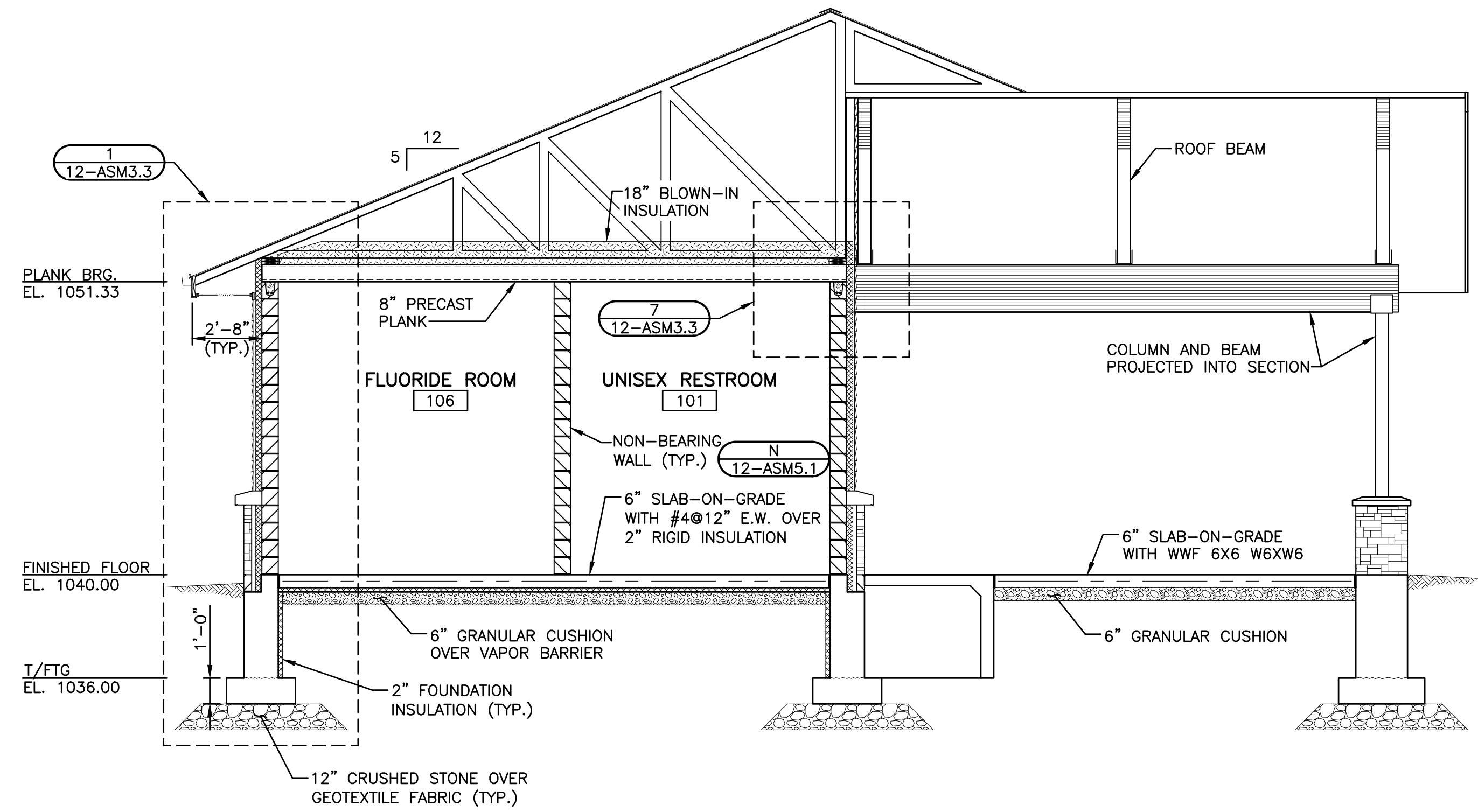
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JOB NO.
1275.059

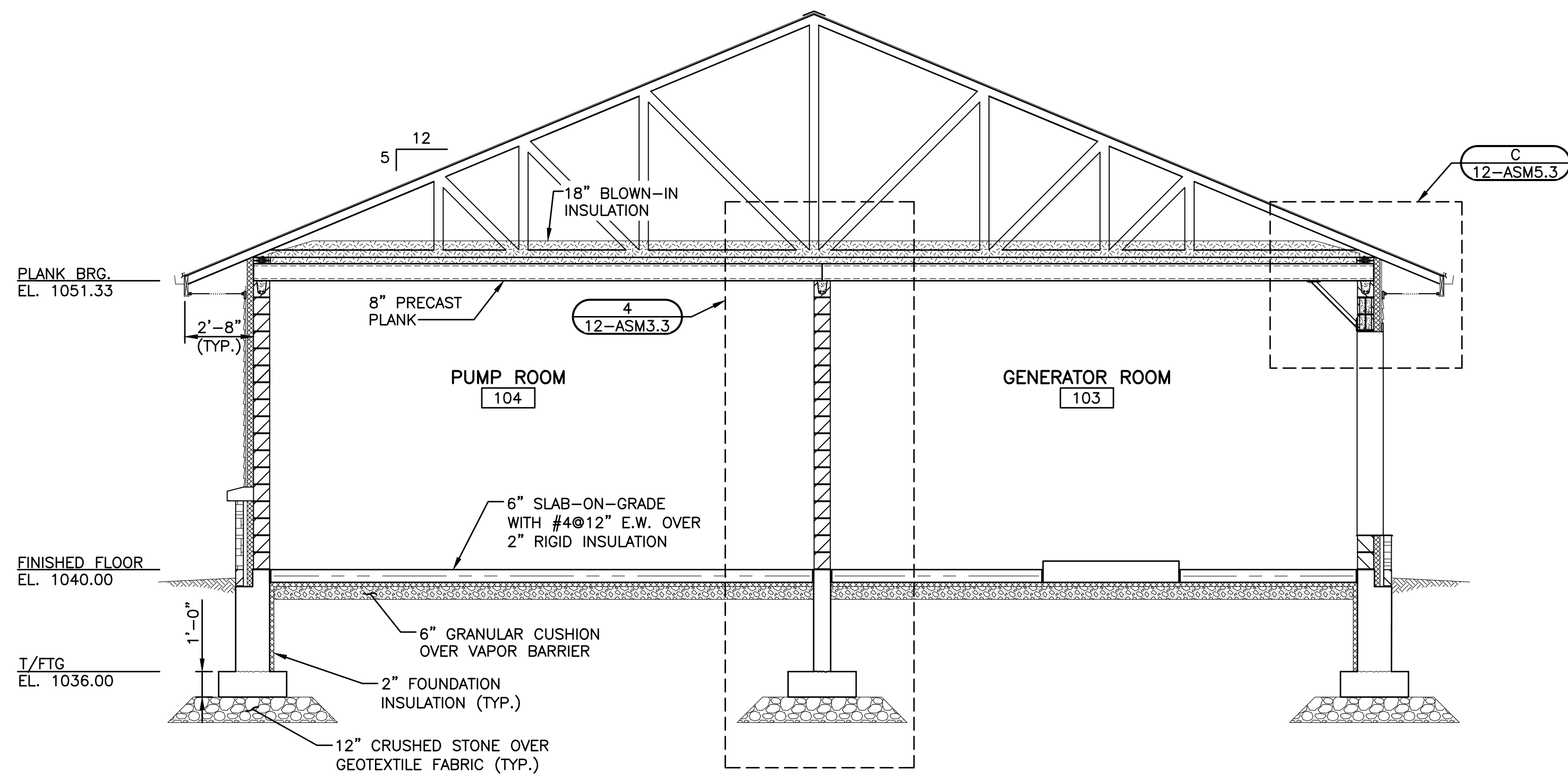
PROJECT MGR.
STEVE KLUESNER



SHEET
18
12-ASM3.1



SECTION 1
12-ASM3.2



SECTION 2
12-ASM3.2

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

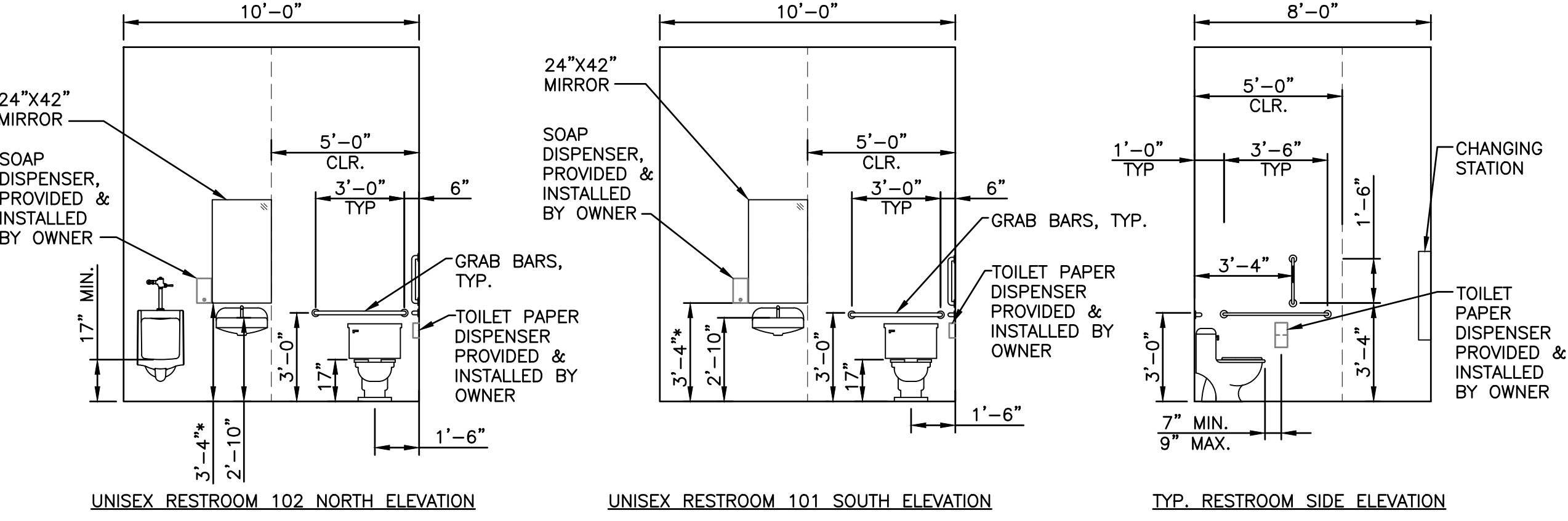
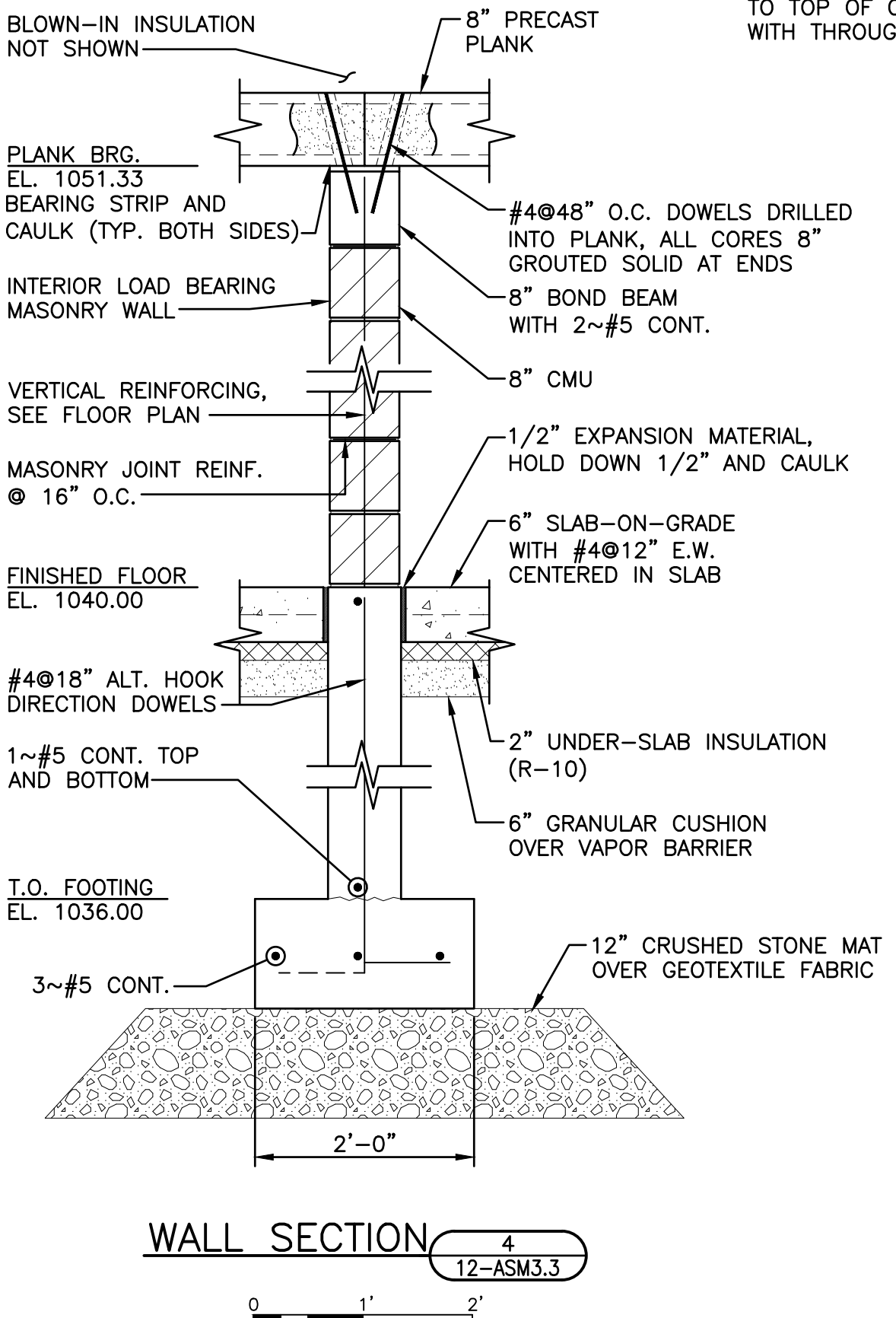
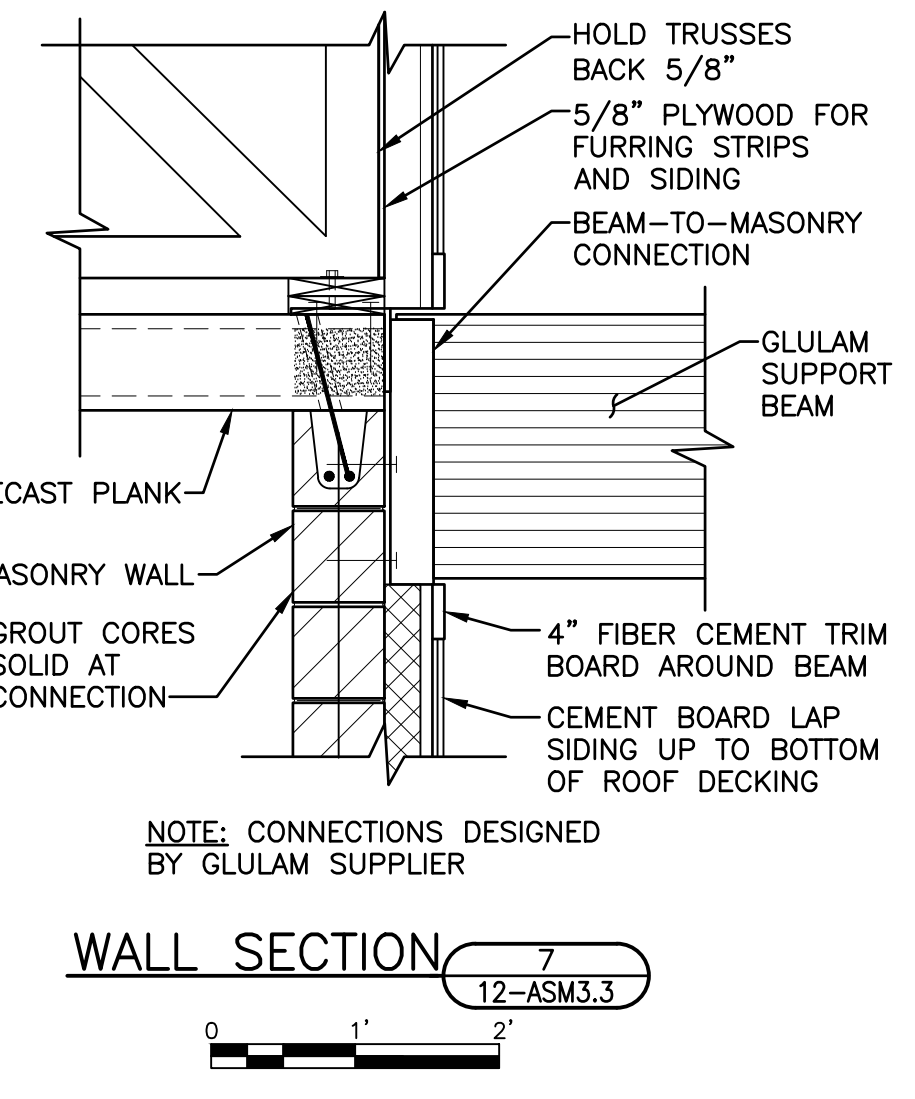
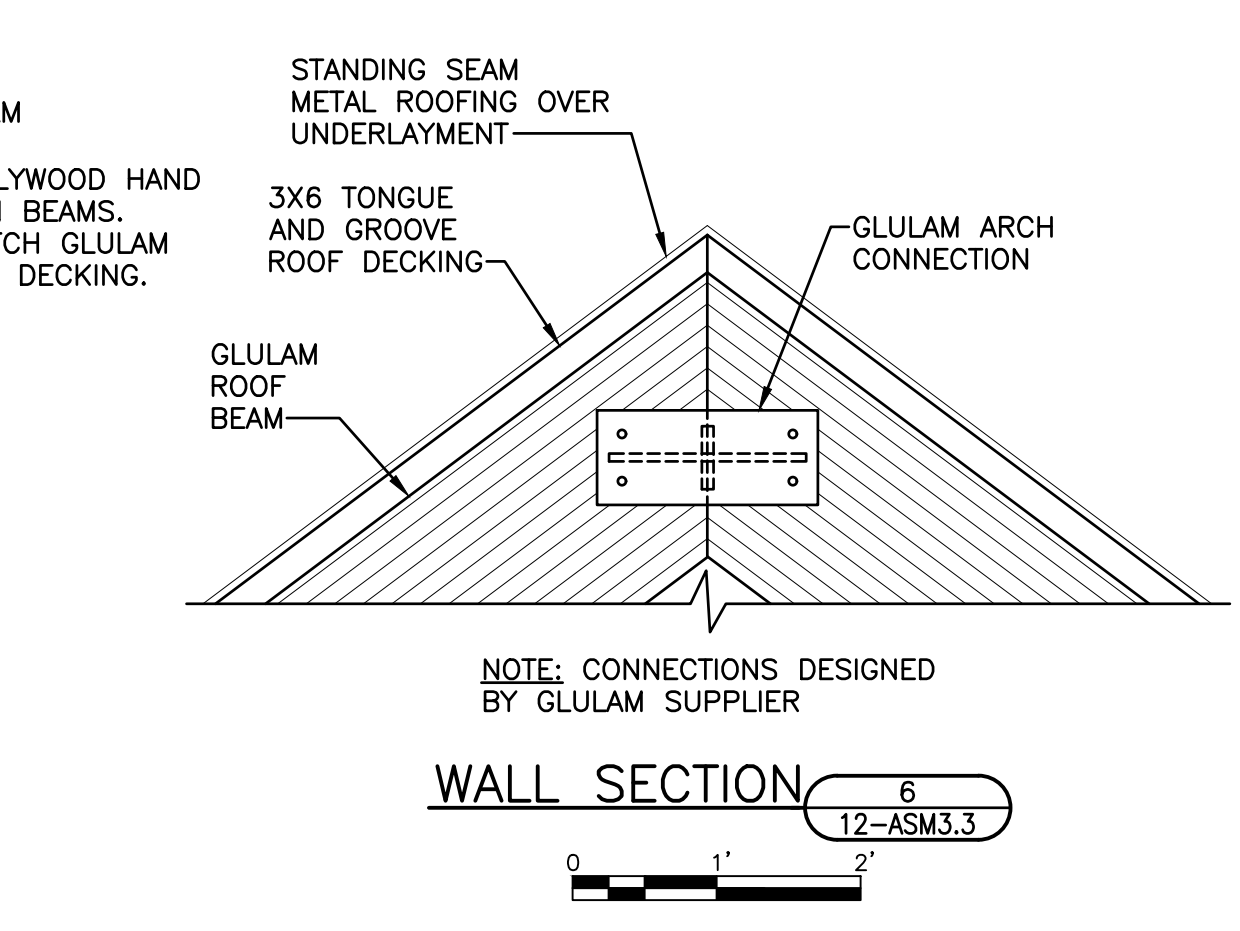
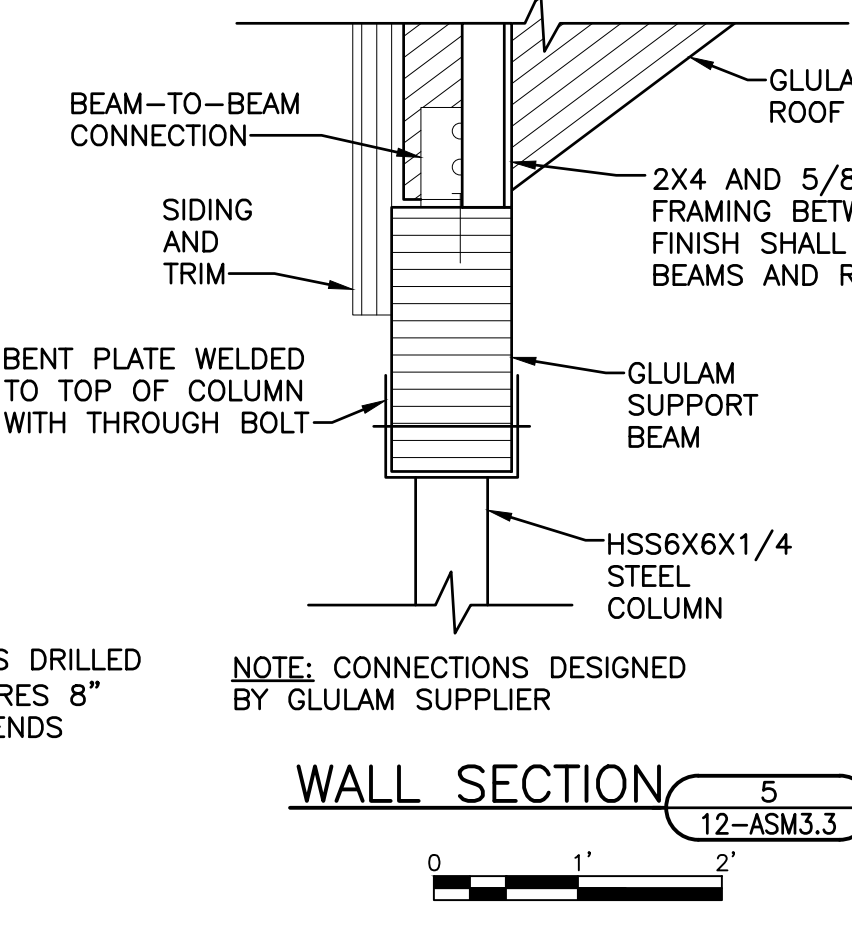
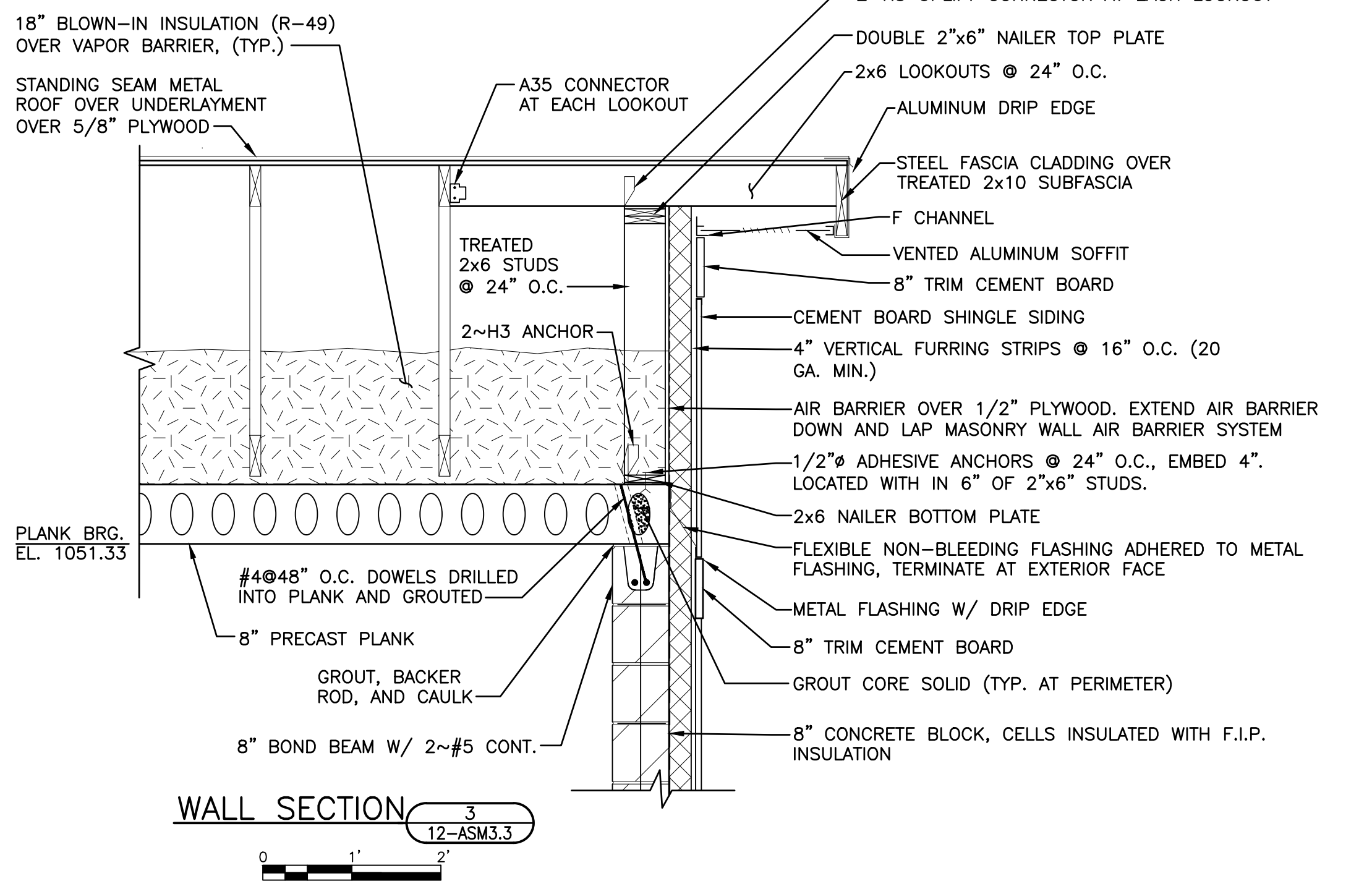
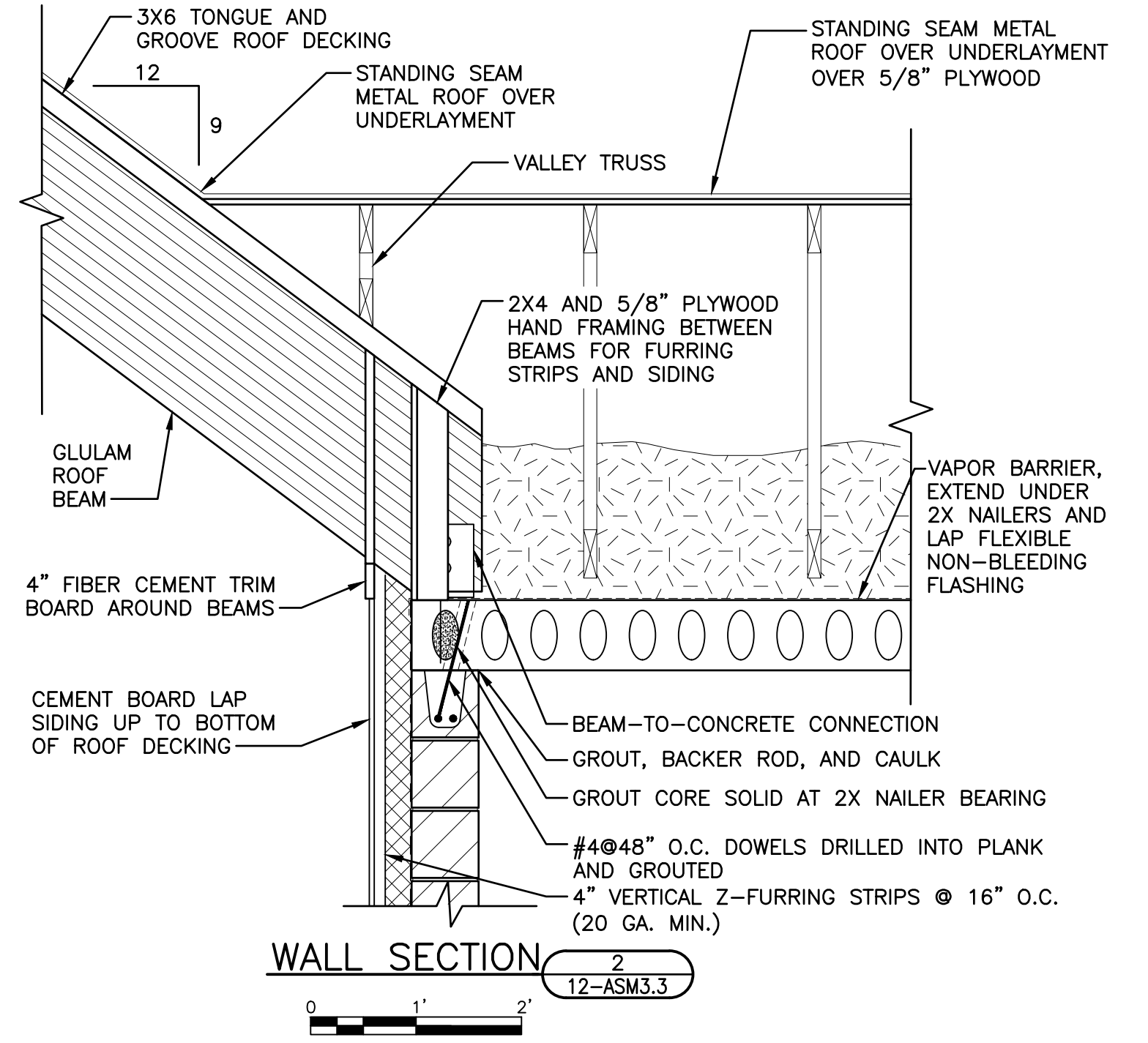
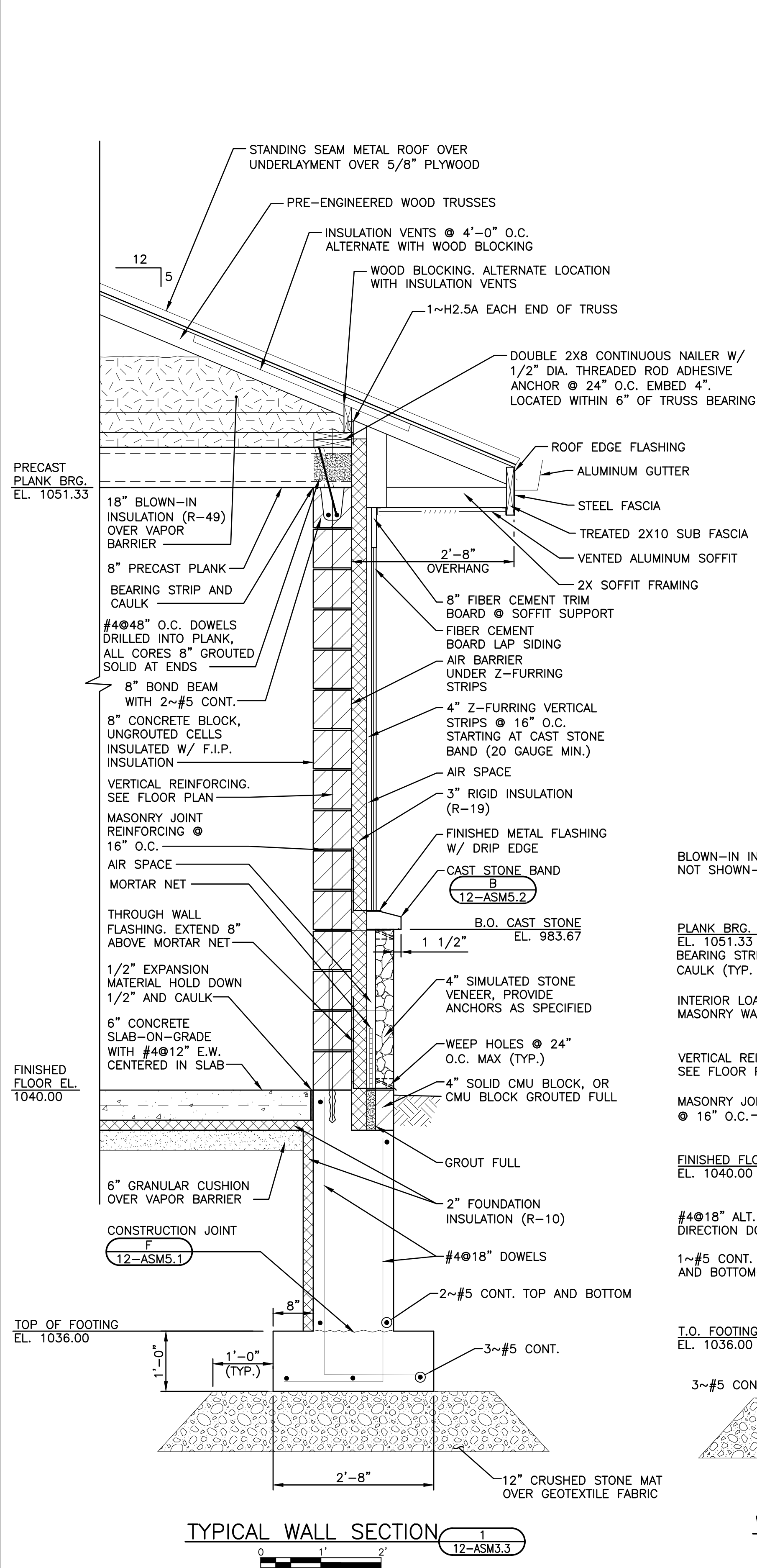
WELL NO. 12 SECTIONS - 2

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
19
12-ASM3.2



* NOTE: DIMENSION SHOWN FROM FINISHED FLOOR TO BOTTOM OF MIRROR REFLECTIVE SURFACE.

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

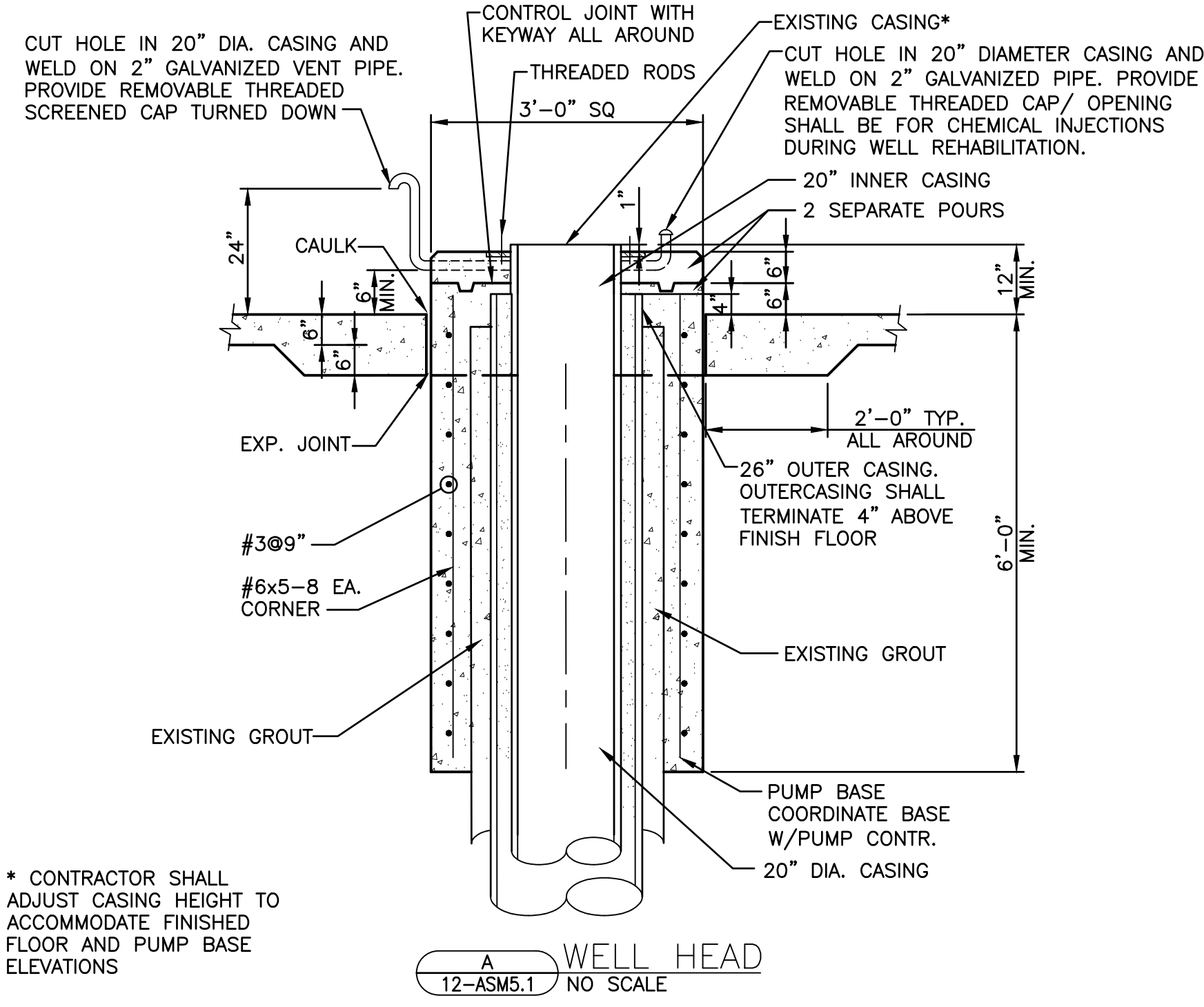
WELL NO. 12 SECTIONS - 3

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO. 1275.059
PROJECT MGR. STEVE KLUESNER

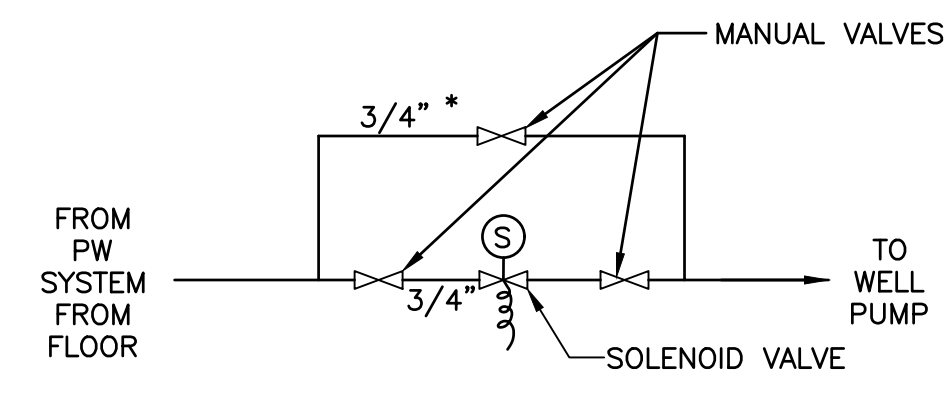


SHEET 20
12-ASM3.3



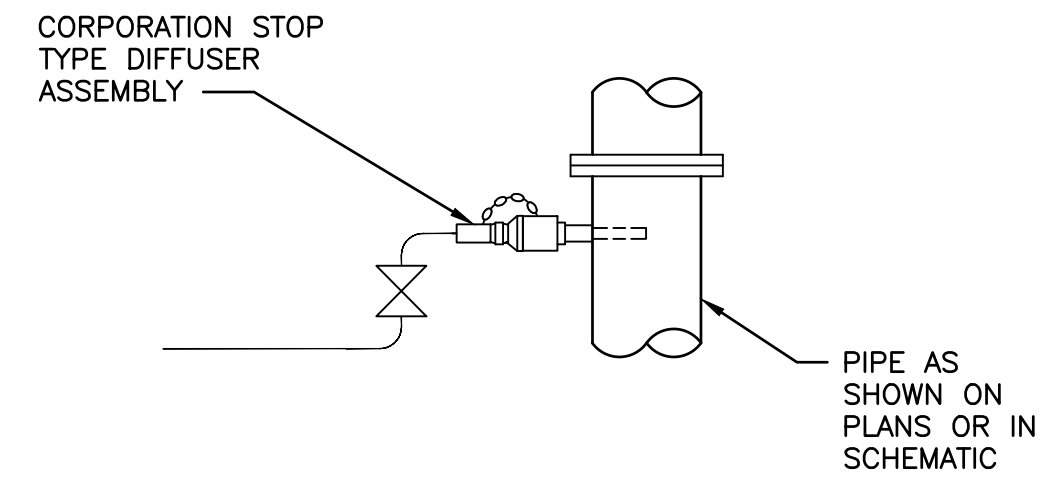
A WELL HEAD
12-ASM5.1 NO SCALE

* CONTRACTOR SHALL ADJUST CASING HEIGHT TO ACCOMMODATE FINISHED FLOOR AND PUMP BASE ELEVATIONS

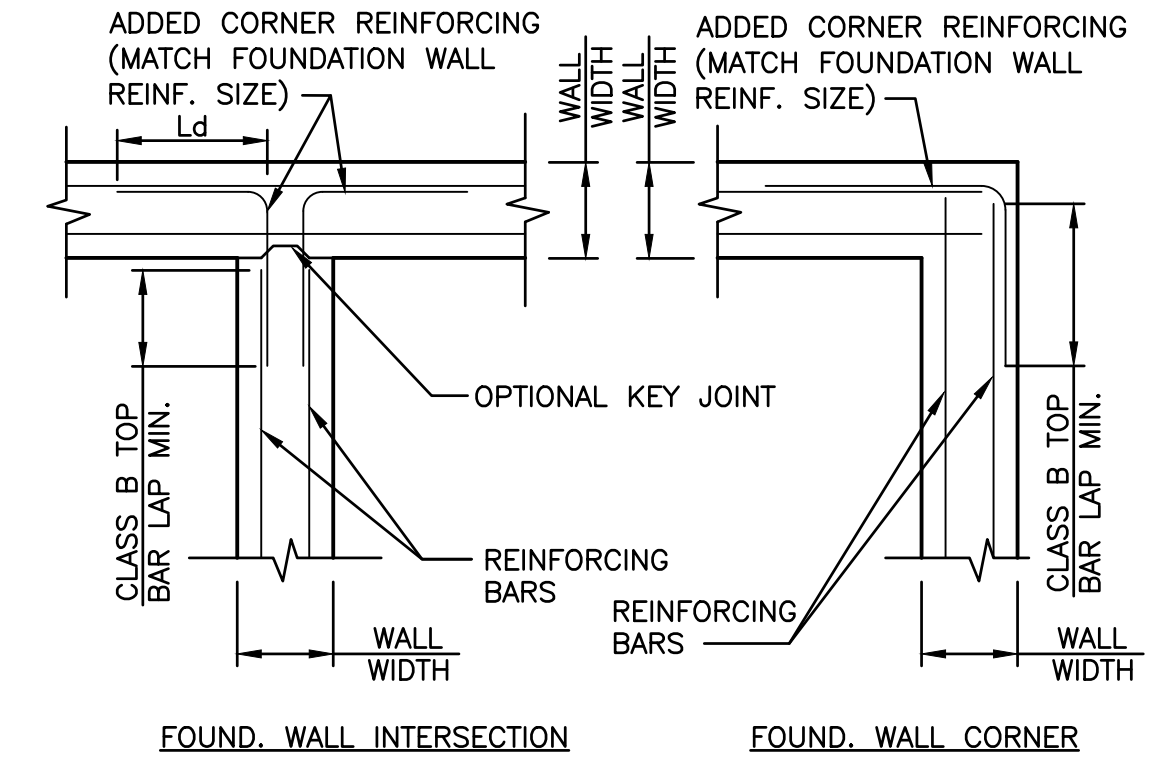


B PRELUBRICATION PIPING
12-ASM5.1 NO SCALE

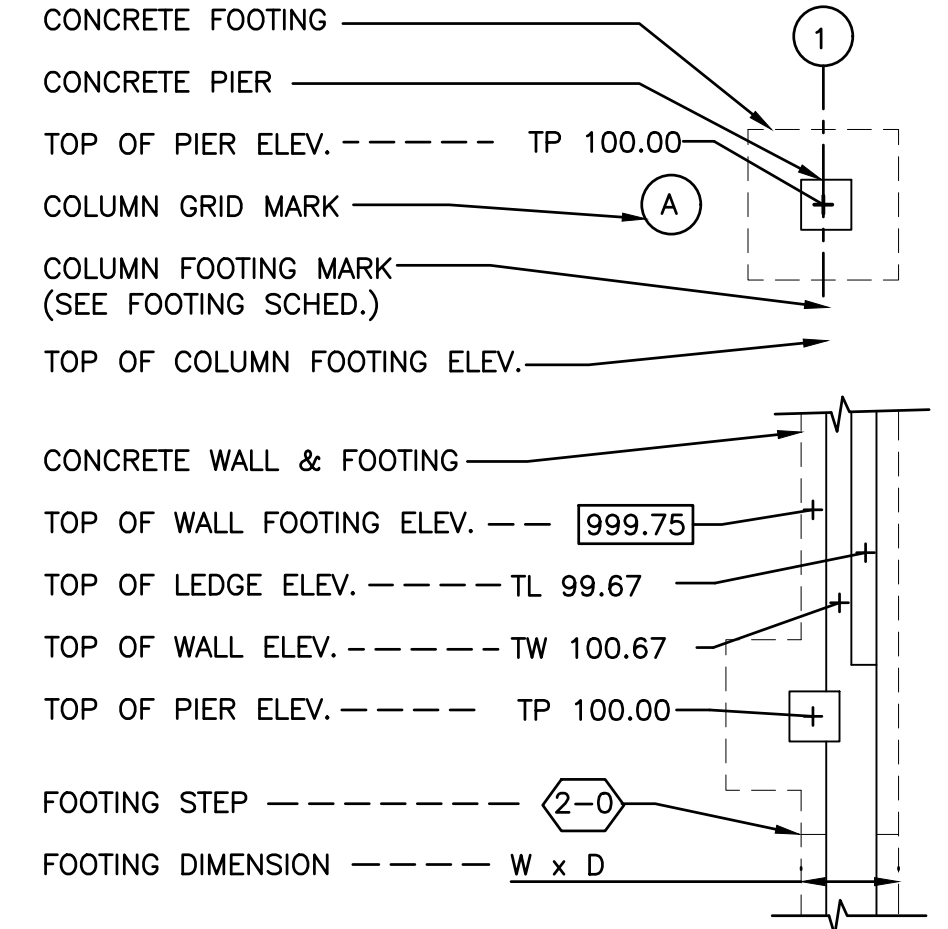
* VERIFY SIZE WITH PUMP MANUFACTURER



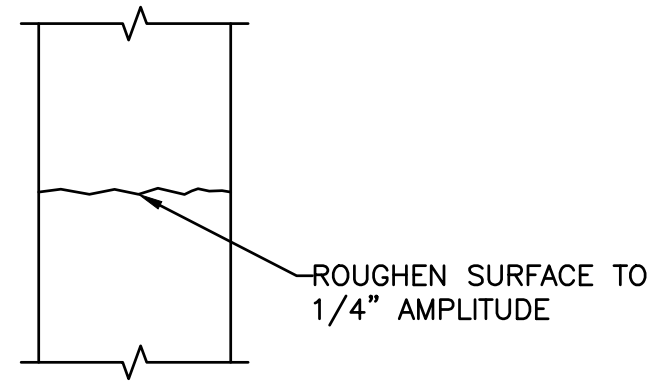
C CORPORATION STOP
12-ASM5.1 NO SCALE



D FOUNDATION WALL CORNER REINFORCEMENT
12-ASM5.1 NO SCALE

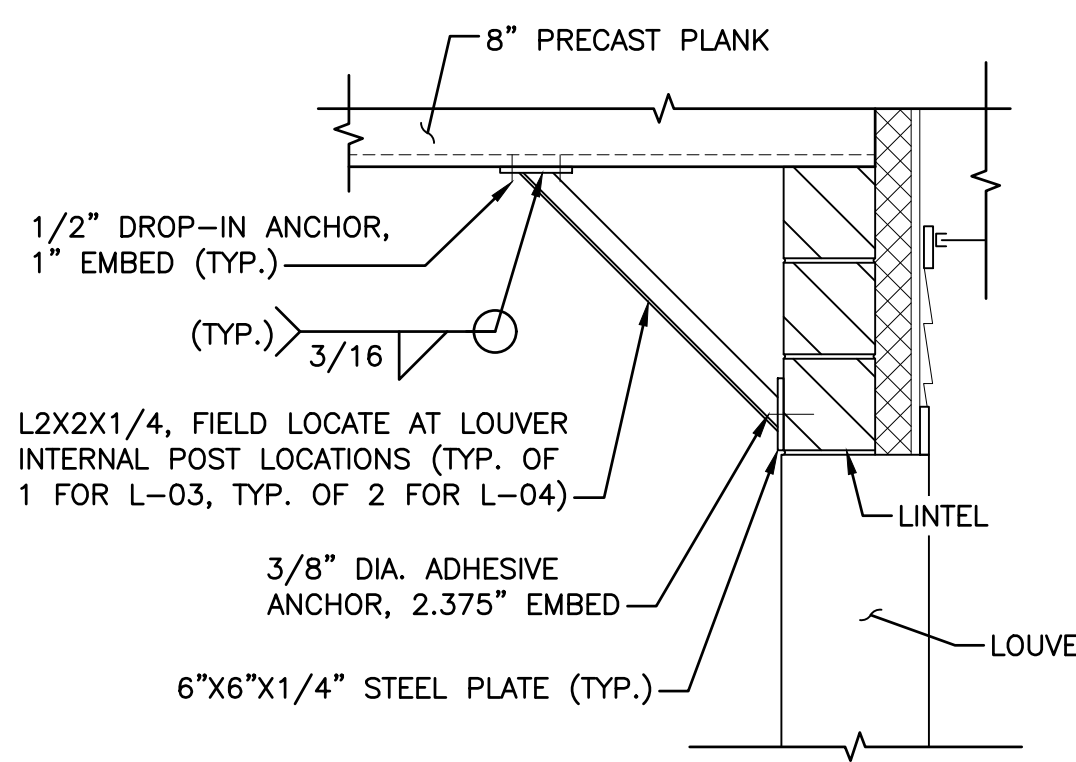


E FOUNDATION LEGEND
12-ASM5.1 NO SCALE

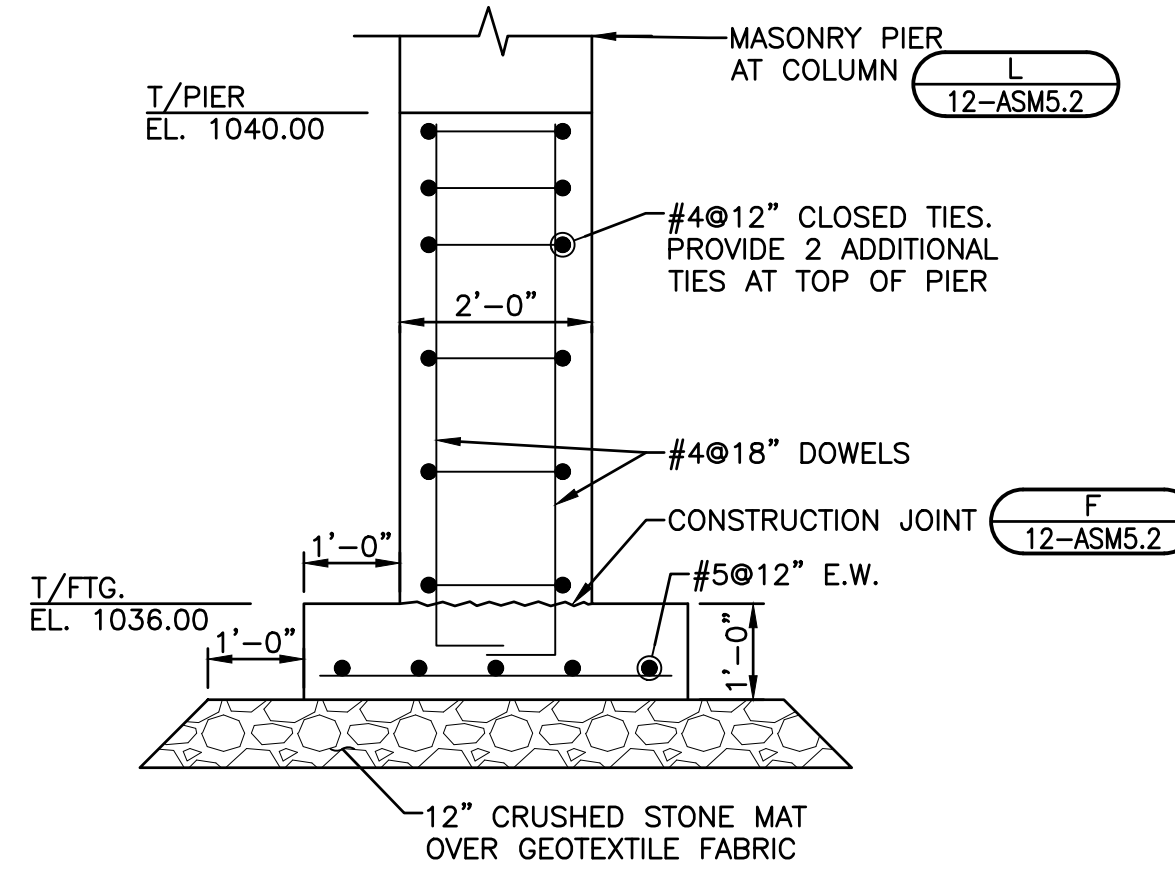


- NOTES:**
1. RUN REINF. CONTINUOUS THROUGH JOINT.
 2. DETAIL DEPICTS JOINT WITHIN WALLS OR SLABS. DETAIL ALSO APPLIES TO WALL/SLAB INTERSECTIONS.
 3. APPLY BONDING AGENT TO JOINT AS SPECIFIED.

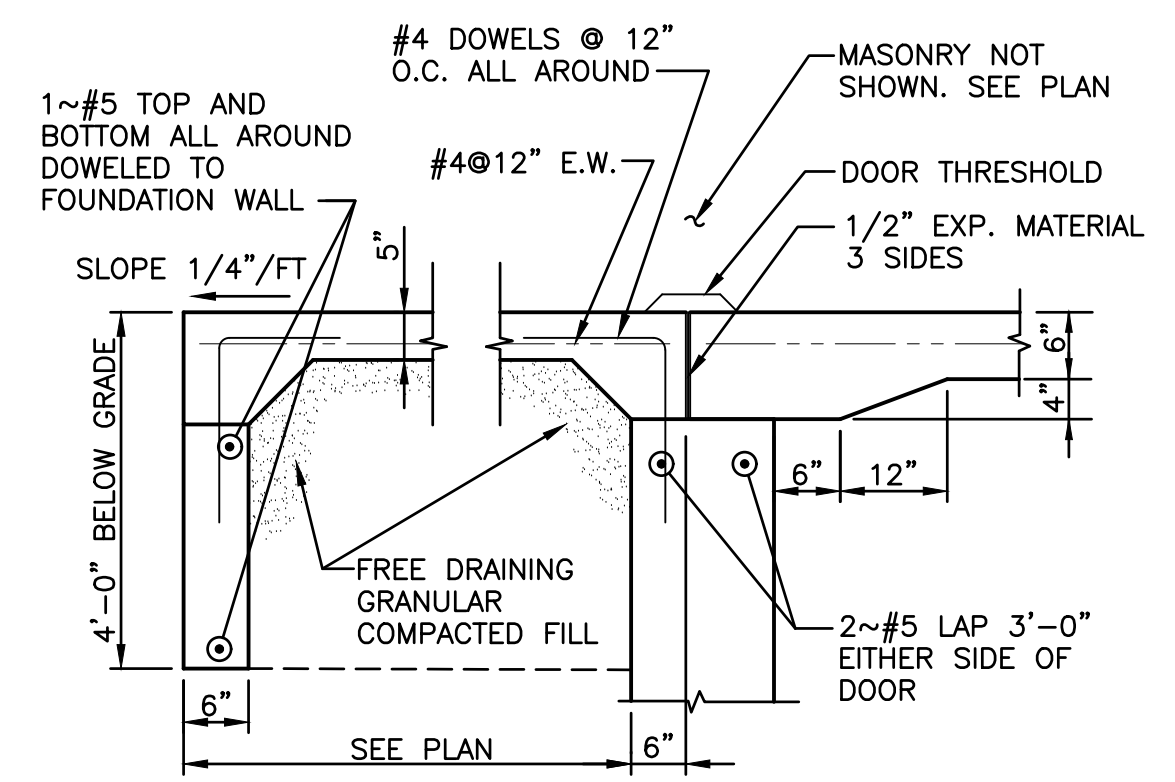
F CONSTRUCTION JOINT
12-ASM5.1 NO SCALE



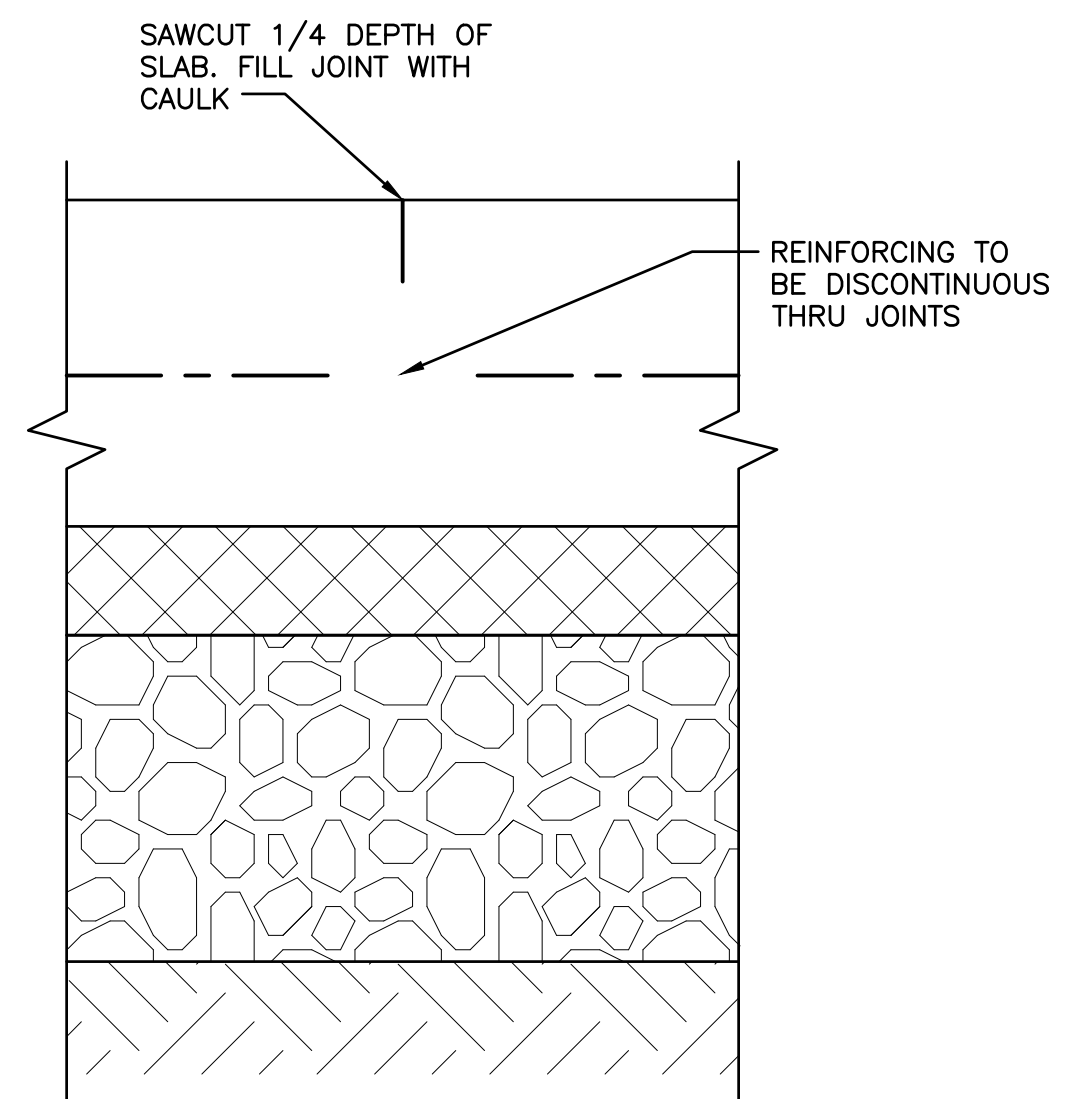
G LOUVER BRACE ANGLE
12-ASM5.1 NO SCALE



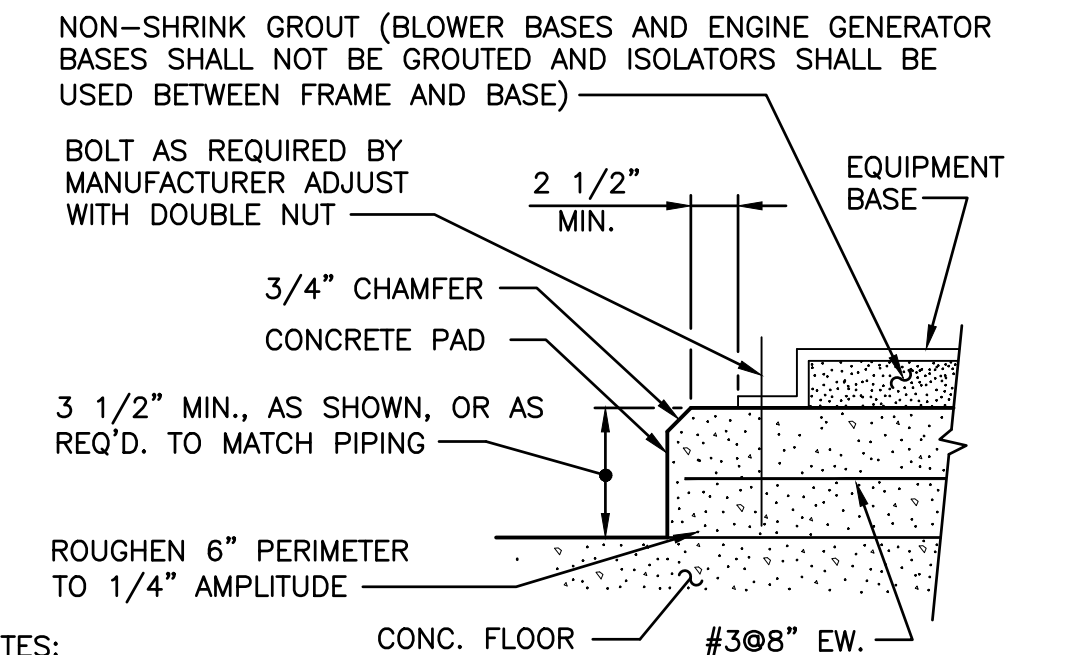
H PIER CONCRETE FOUNDATION
12-ASM5.1 NO SCALE



J CONCRETE STOOP
12-ASM5.1 NO SCALE

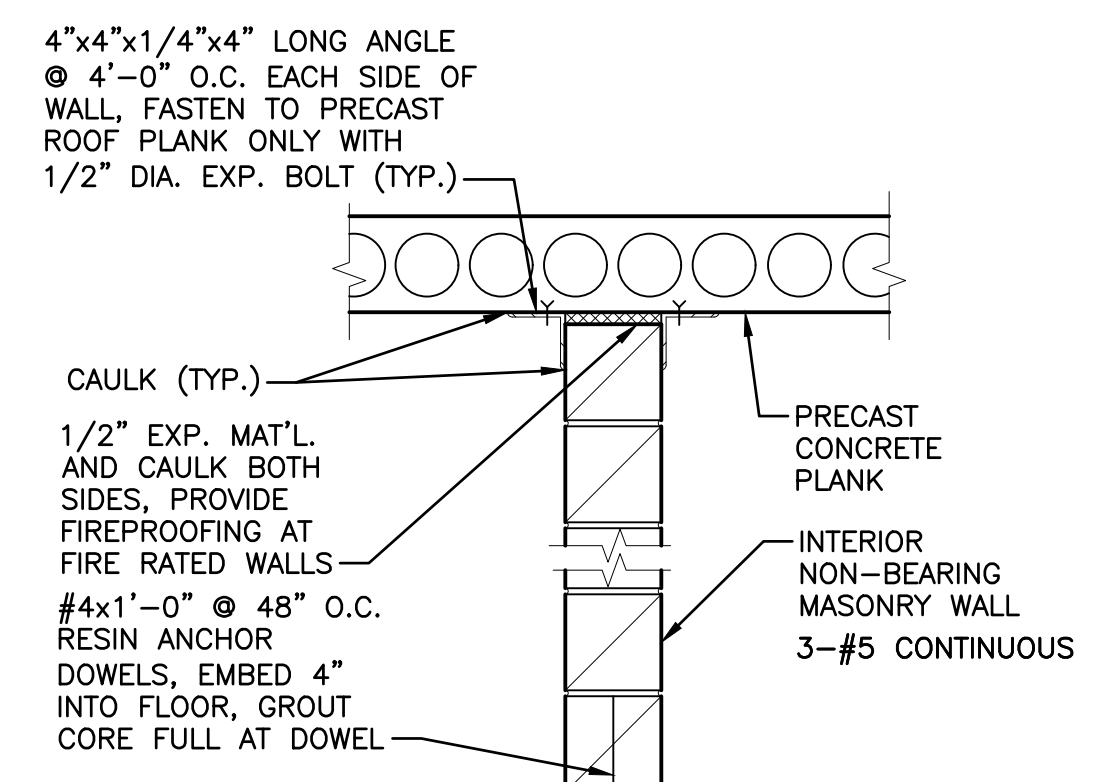


K TYPICAL SLAB SAWN JOINT
12-ASM5.1 NO SCALE



- NOTES:**
1. CONCRETE PAD BY CONTRACTOR SUPPLYING EQUIPMENT.
 2. ANCHOR CONCRETE PAD TO FLOOR WITH 1/2\"/>

M CONCRETE EQUIPMENT PAD
12-ASM5.1 NO SCALE



N INTERIOR NON-BEARING WALL
12-ASM5.1 NO SCALE

NOTE: RIGID INSULATION & SUBGRADE NOT SHOWN

NO.	REVISIONS	DATE:

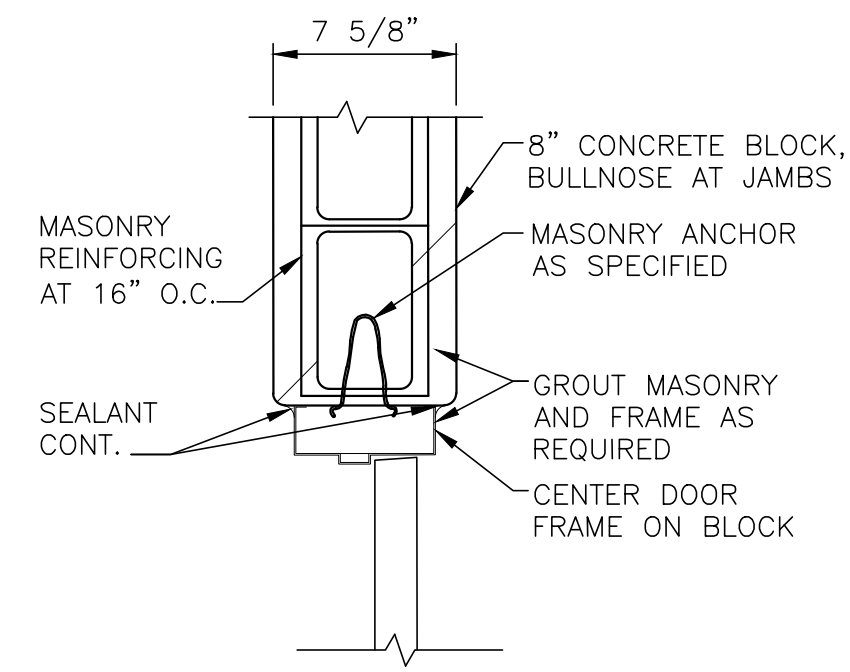
WELL NO. 12 DETAILS - 1

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

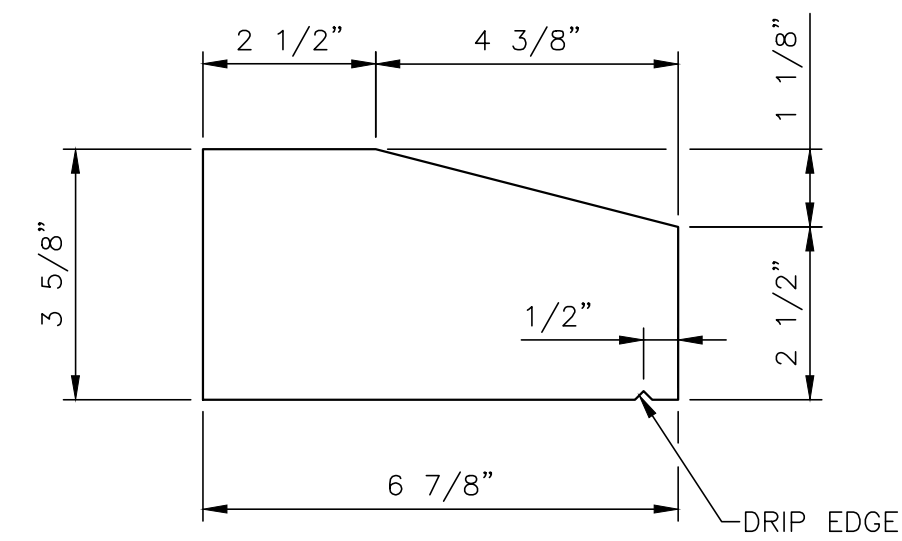
JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



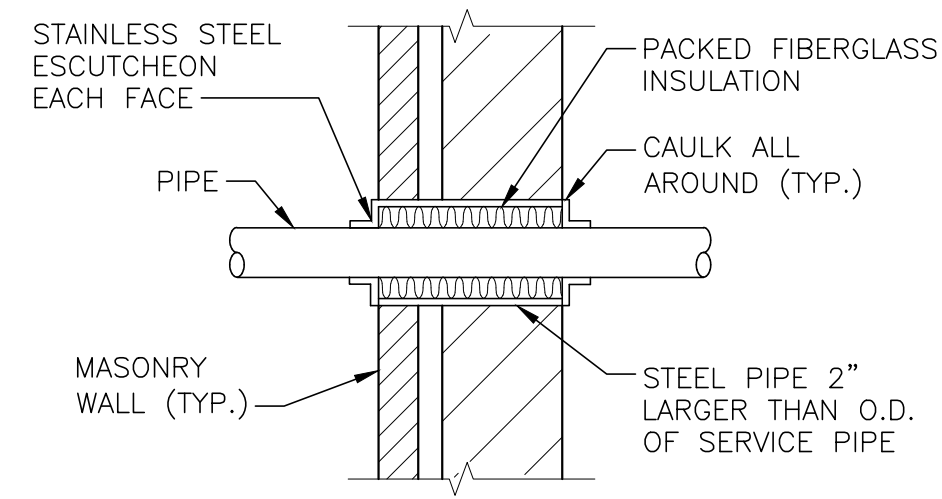
SHEET
21
12-ASM5.1



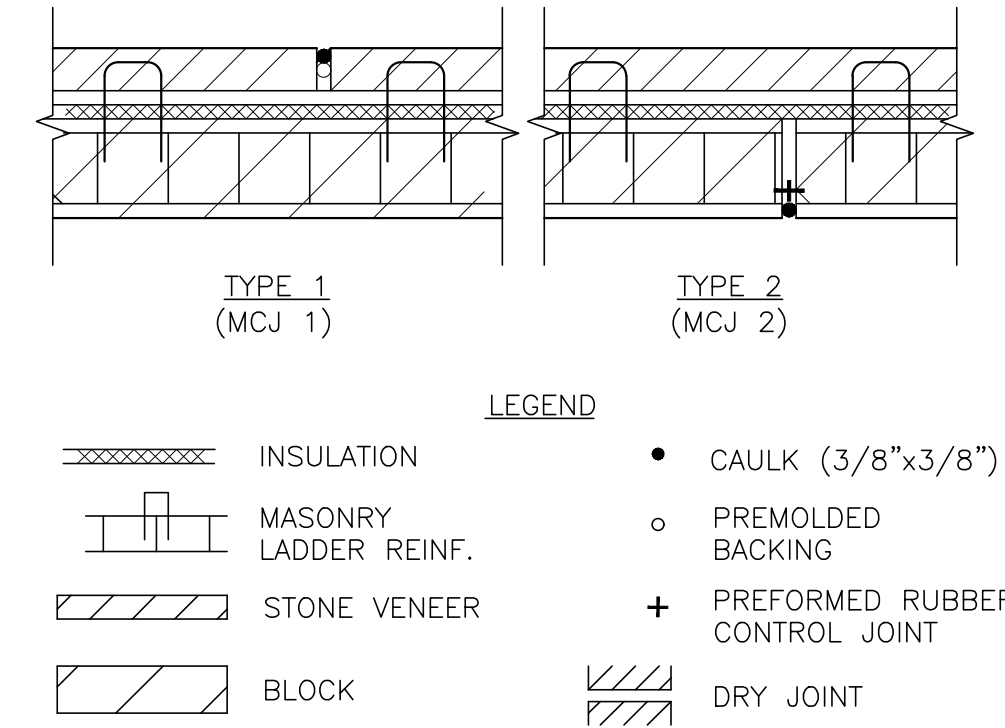
A INTERIOR DOOR DETAILS
12-ASM5.2 NO SCALE



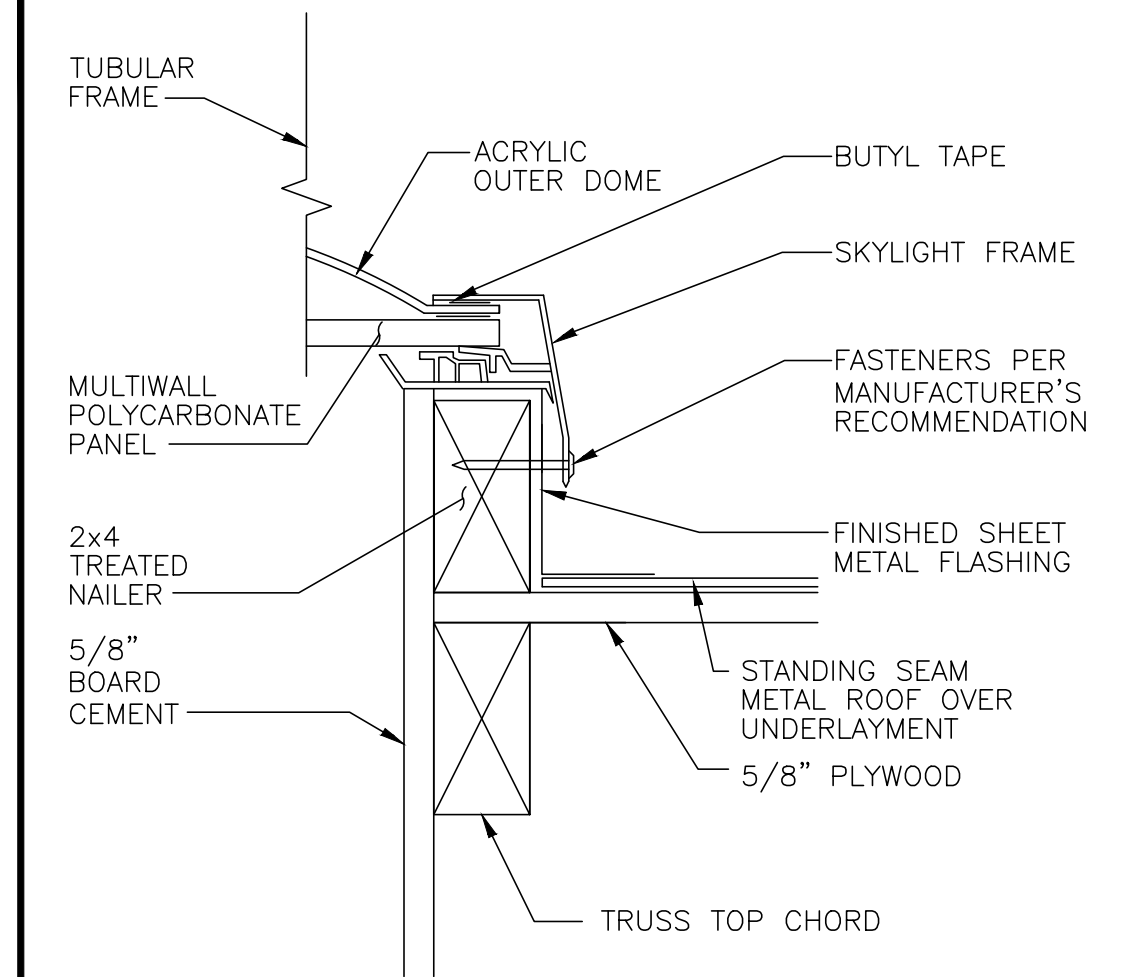
B CAST STONE BAND
12-ASM5.2 NO SCALE



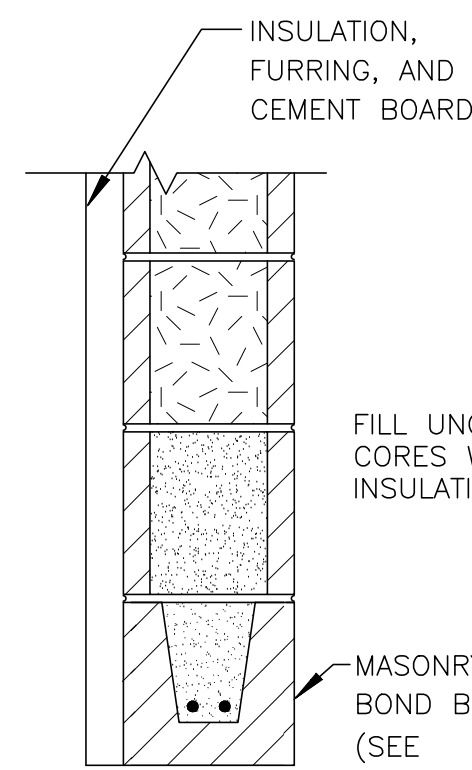
C MASONRY SLEEVE
12-ASM5.2 NO SCALE



D MASONRY CONTROL JOINT
12-ASM5.2 NO SCALE

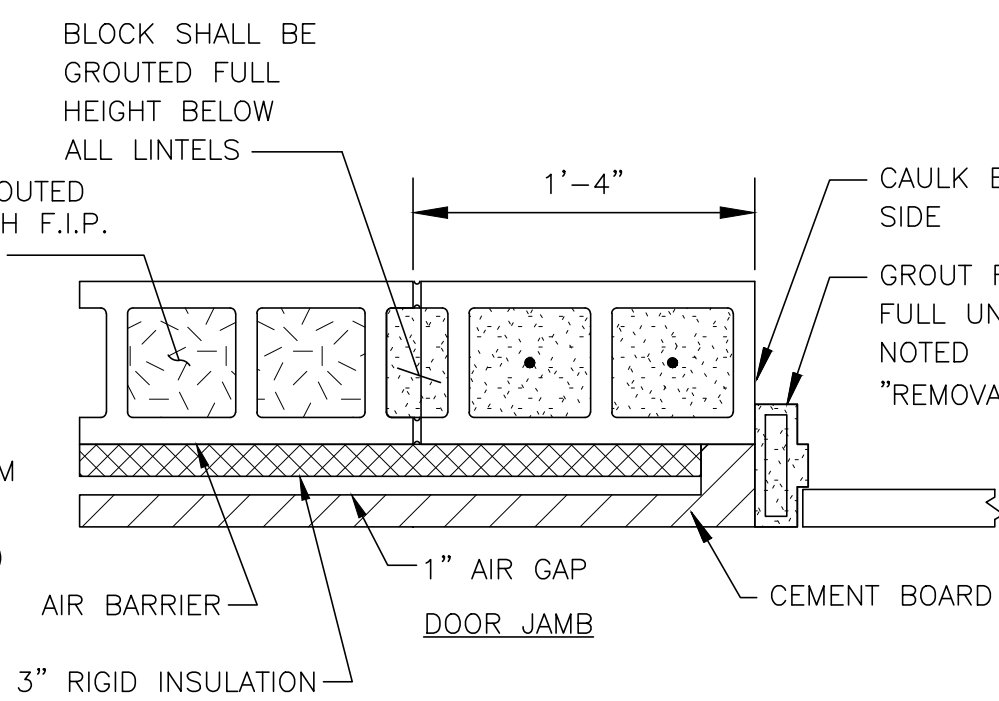


E SKYLIGHT SIDE CURB
12-ASM5.2 NO SCALE



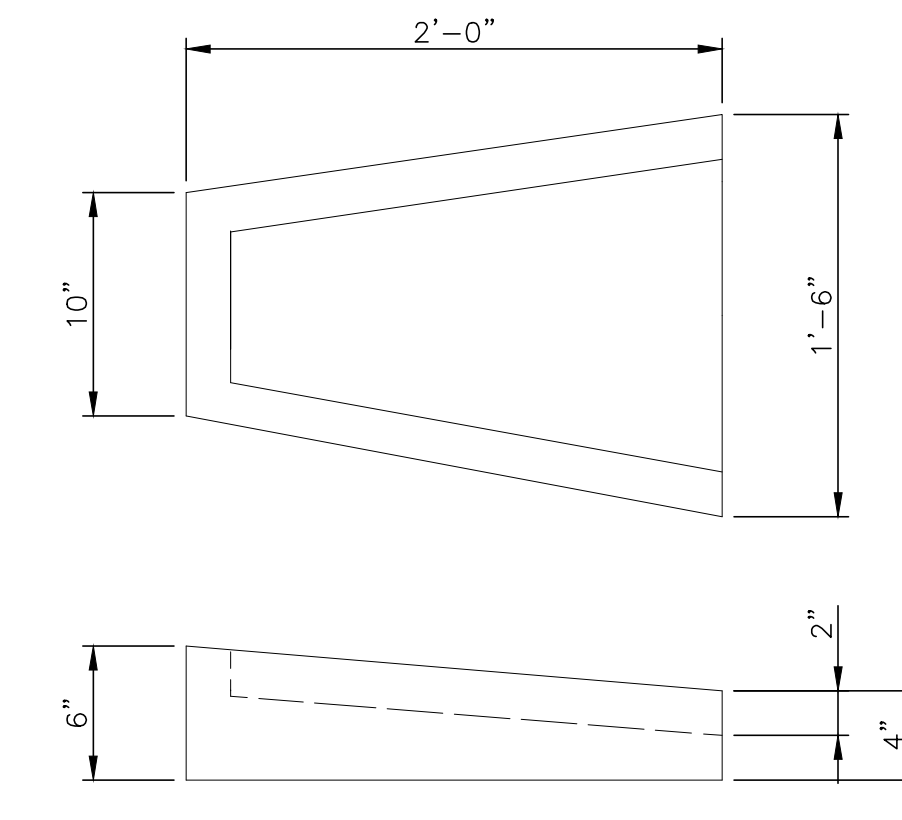
NOTES:

1. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS.
2. LINTELS SHALL HAVE A MINIMUM BEARING OF 8".
3. GROUT MASONRY FULL 16" EACH SIDE OF OPENINGS UNDER ALL LINTELS TO FLOOR.

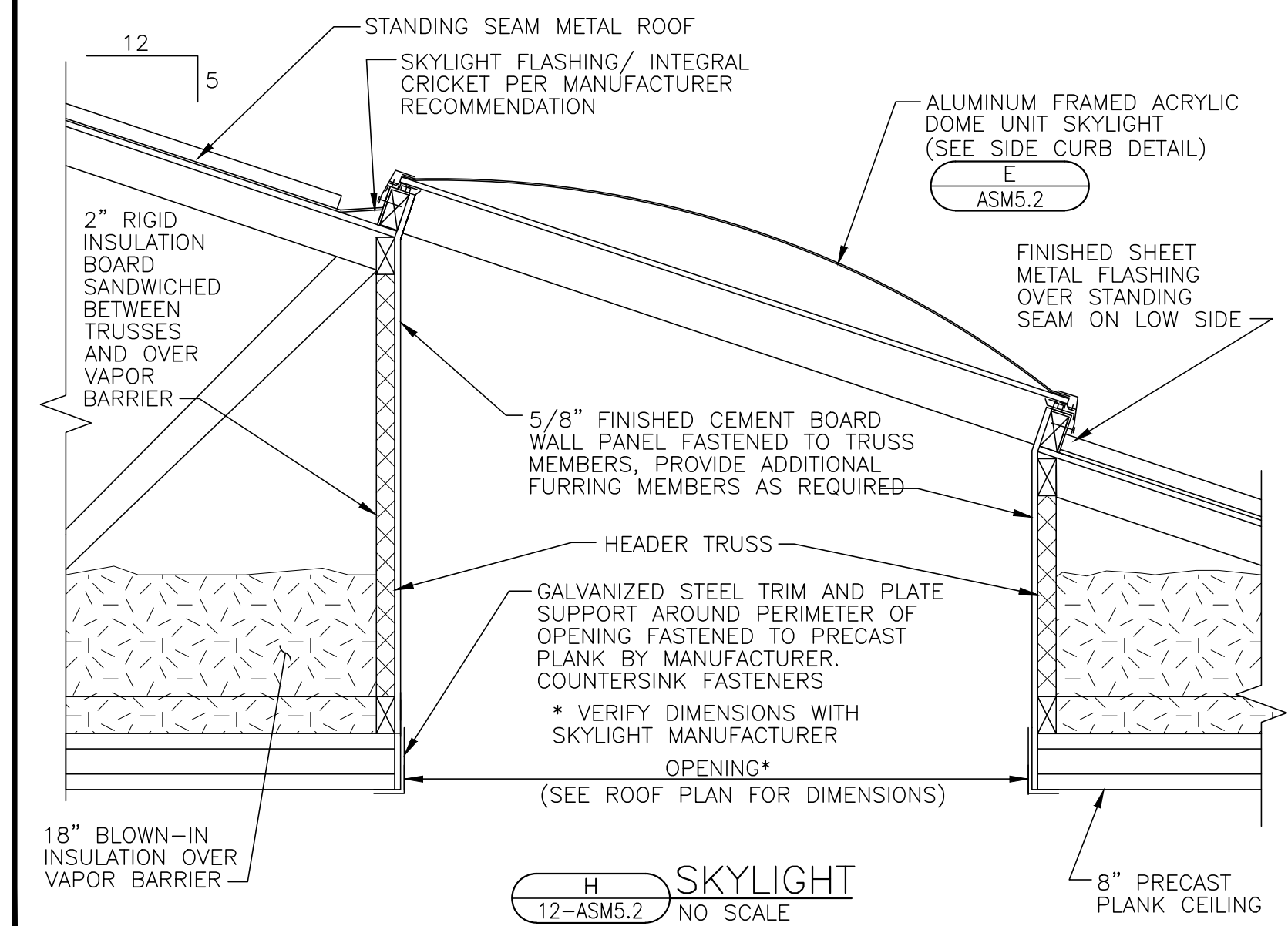


F LINTEL DETAILS
12-ASM5.2 NO SCALE

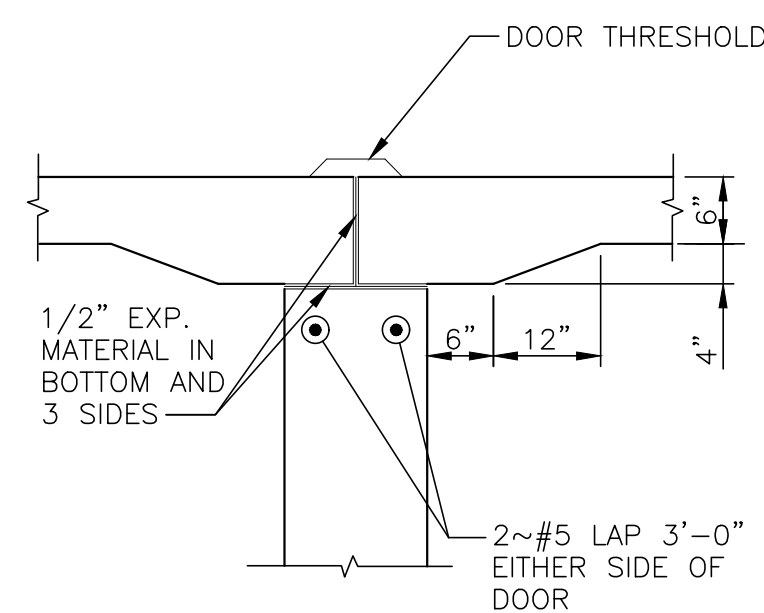
TYPE	MASONRY LINTELS
TYPE B-1	LINTEL BLOCK 2~#5 CONTINUOUS
TYPE B-2	#4@16" SHEAR REINF. 2~#5 CONTINUOUS 2 COURSES GROUDED SOLID
TYPE B-3	#4@16" SHEAR REINF. 2~#6 CONTINUOUS 3 COURSES GROUDED SOLID



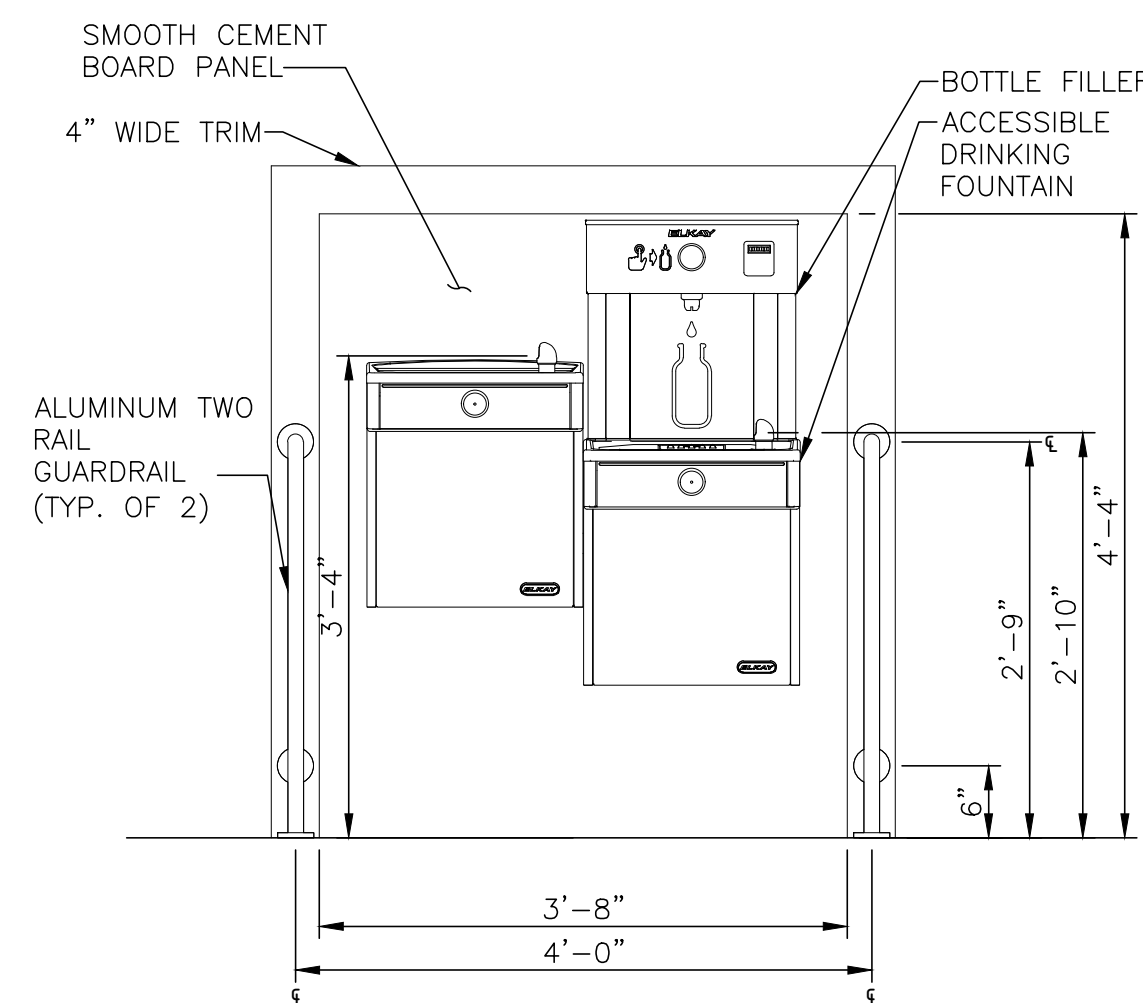
G CONCRETE SPLASH PAD
12-ASM5.2 NO SCALE



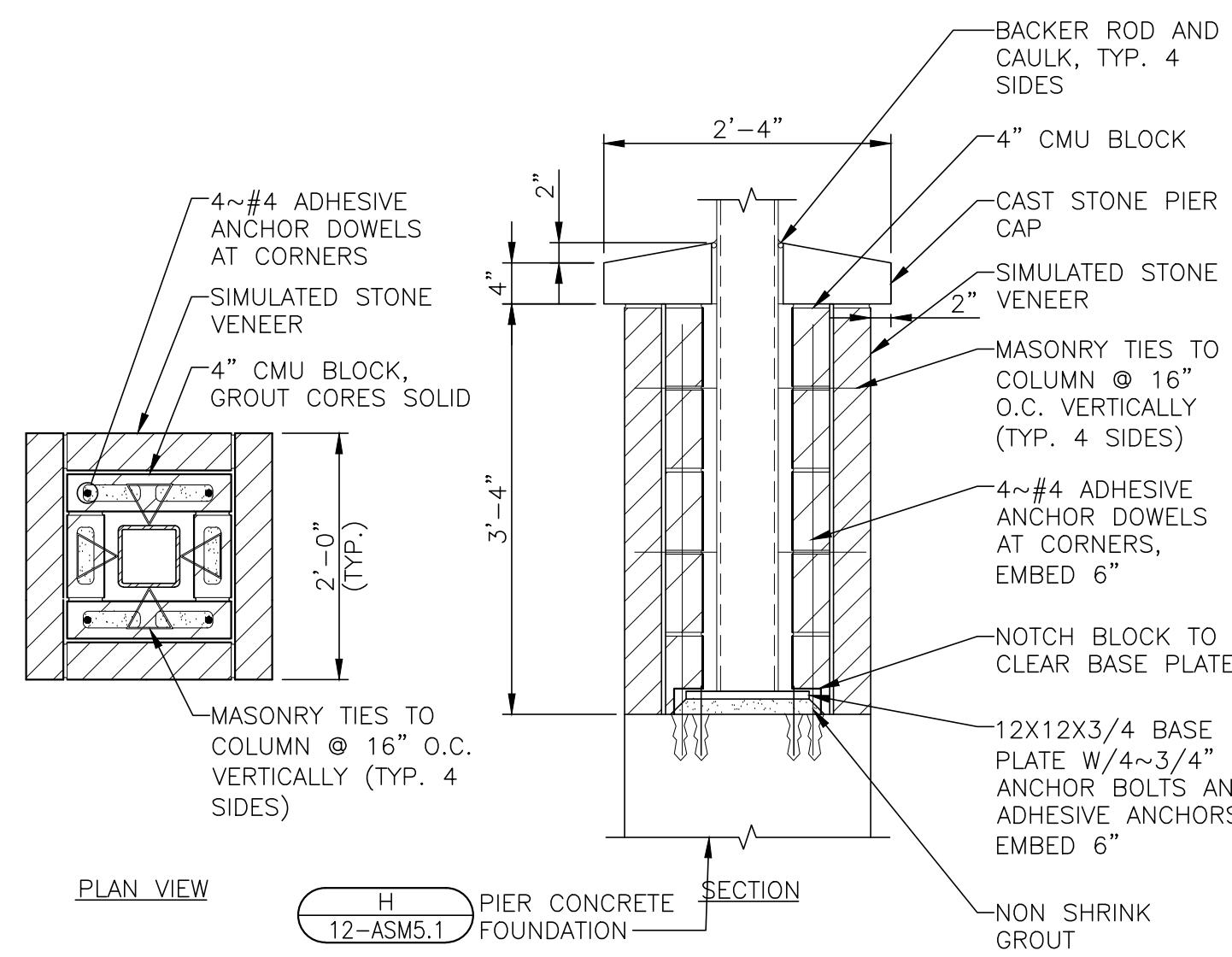
H SKYLIGHT
12-ASM5.2 NO SCALE



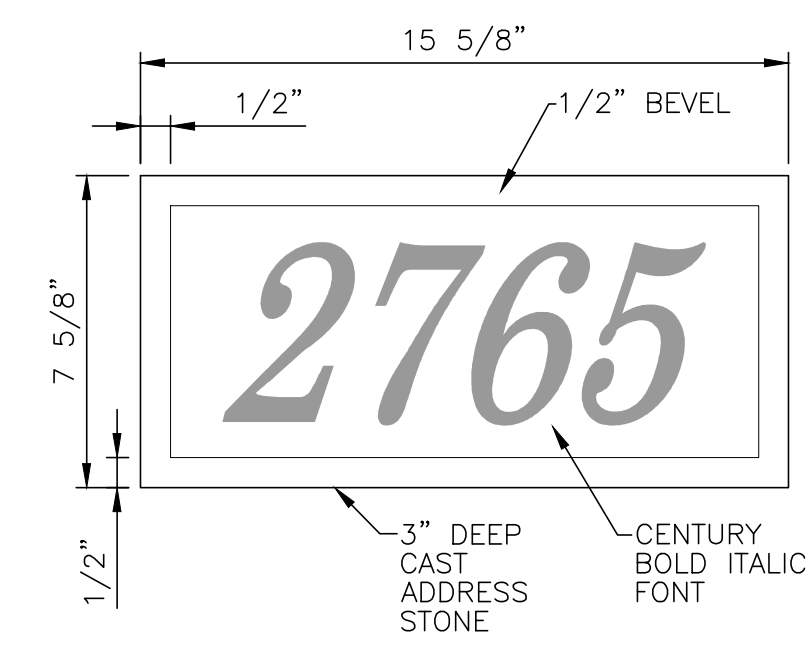
J INTERIOR DOOR SECTION
12-ASM5.2 NO SCALE



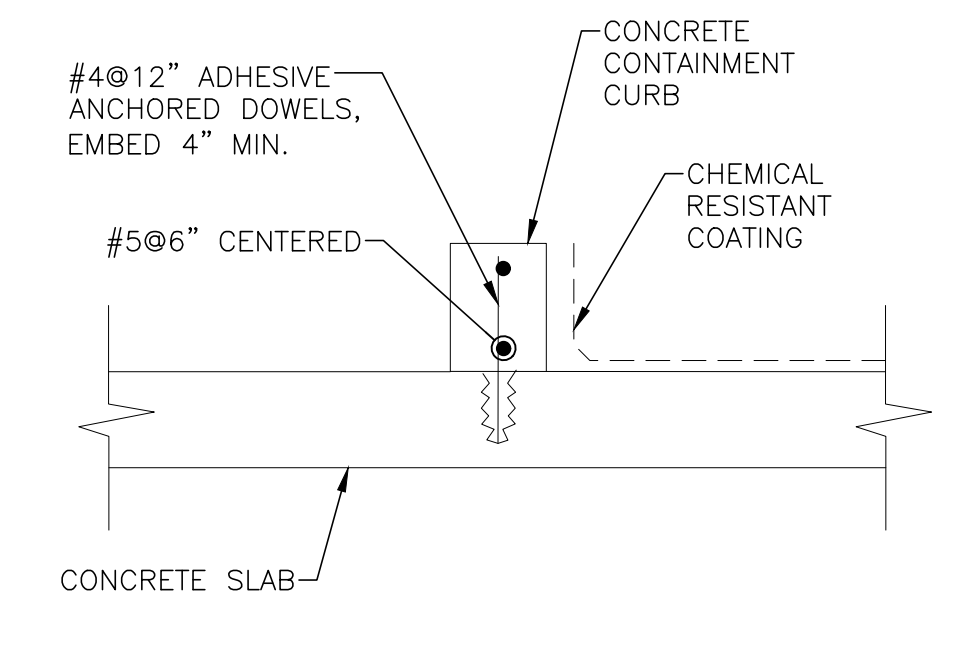
K DRINKING FOUNTAIN
12-ASM5.2 NO SCALE



L MASONRY PIER AT COLUMN
12-ASM5.2 NO SCALE



M CAST ADDRESS STONE
12-ASM5.2 NO SCALE



N CURB DETAIL
12-ASM5.2 NO SCALE

NO.	REVISIONS	DATE:

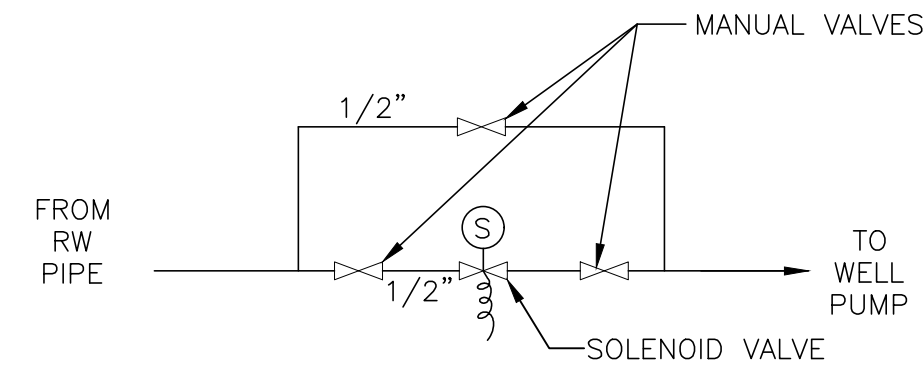
WELL NO. 12 DETAILS - 2
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

PROJECT MGR.
STEVE KLUESNER

STRAND ASSOCIATES

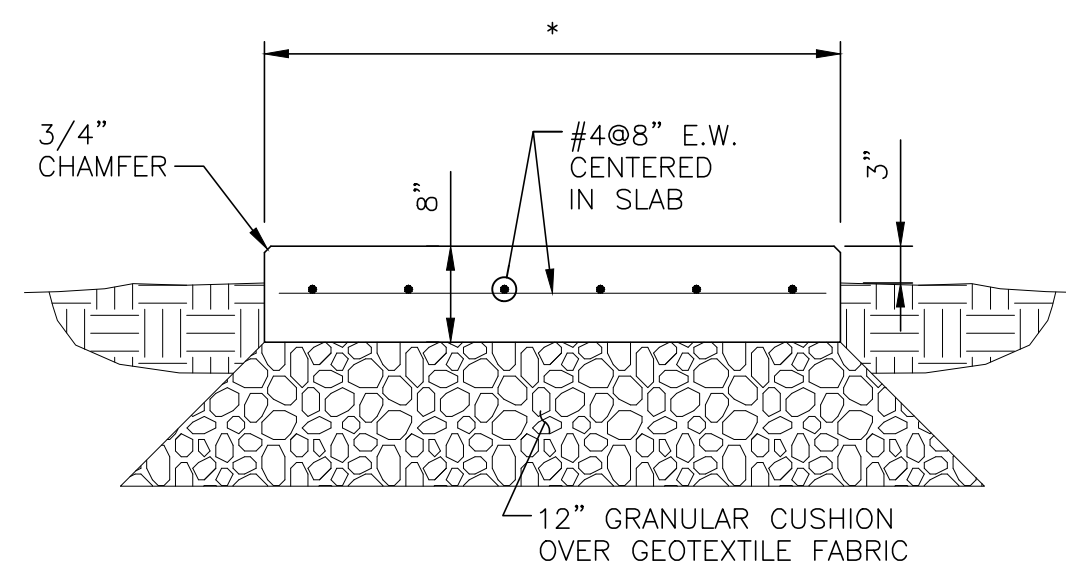
SHEET
22
12-ASM5.2



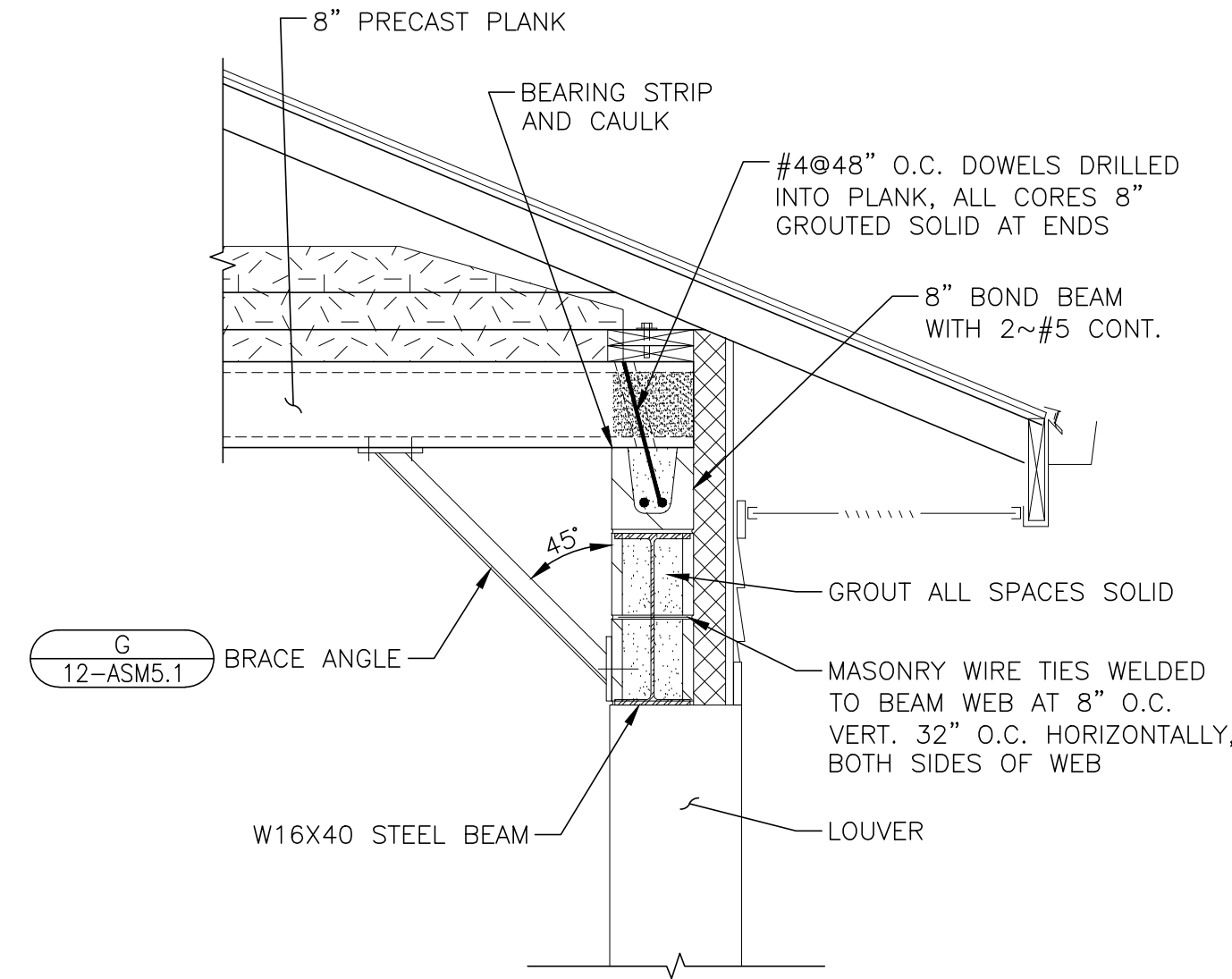
A WELL RECIRCULATION PIPING
12-ASM5.3 NO SCALE

- NOTES:
1. SLOPE PAD AWAY FROM ADJACENT STRUCTURE.
 2. PROVIDE 1/2" EXP. MATERIAL BETWEEN PAD AND ADJACENT STRUCTURE.

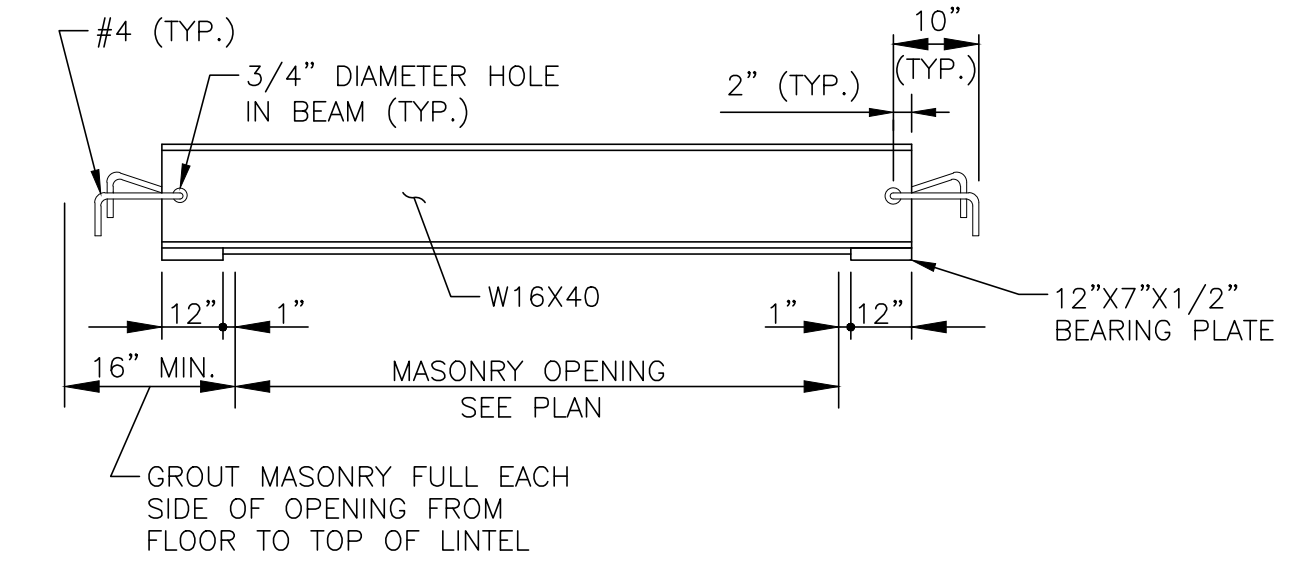
* VERIFY WITH EQUIPMENT MANUFACTURER. EXTEND PAD SIX INCHES PAST EQUIPMENT ON ALL SIDES



B EXTERIOR EQUIPMENT PAD
12-ASM5.3 NO SCALE

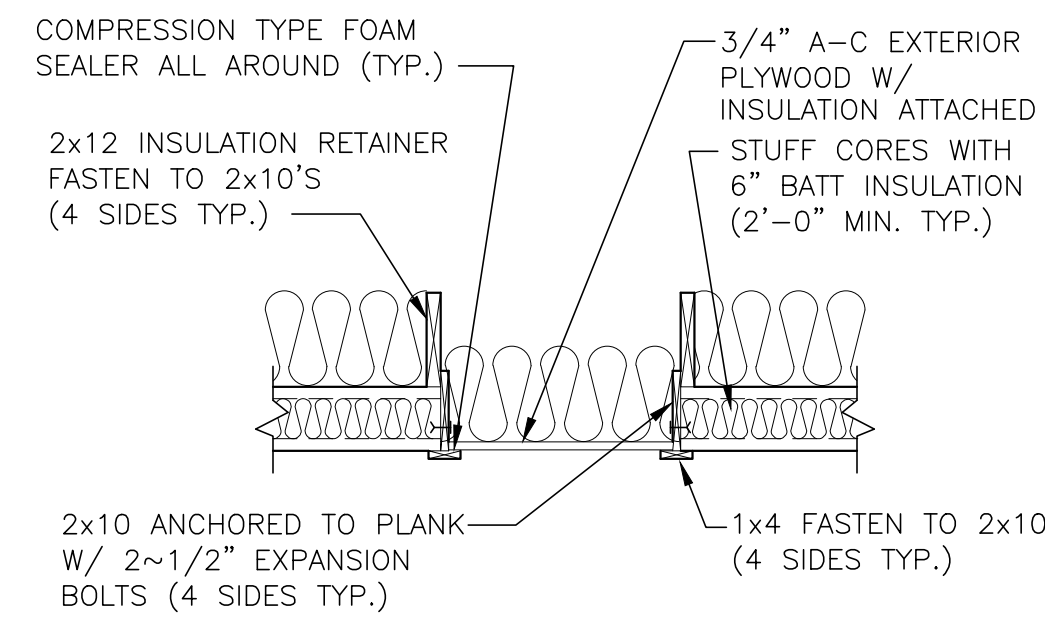


C STEEL LINTEL
12-ASM5.3 NO SCALE



NOTES:

1. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS.
2. LINTELS SHALL HAVE A MINIMUM BEARING OF 8".
3. GROUT MASONRY FULL 16" EACH SIDE OF OPENINGS UNDER ALL LINTELS TO FLOOR.
4. LINTEL ASSEMBLIES IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED.



NOTE: PLANK SUPPORT ANGLES NOT SHOWN

D ATTIC ACCESS
12-ASM5.3 NO SCALE

DATE:	NO.	REVISIONS

WELL NO. 12 DETAILS - 3
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

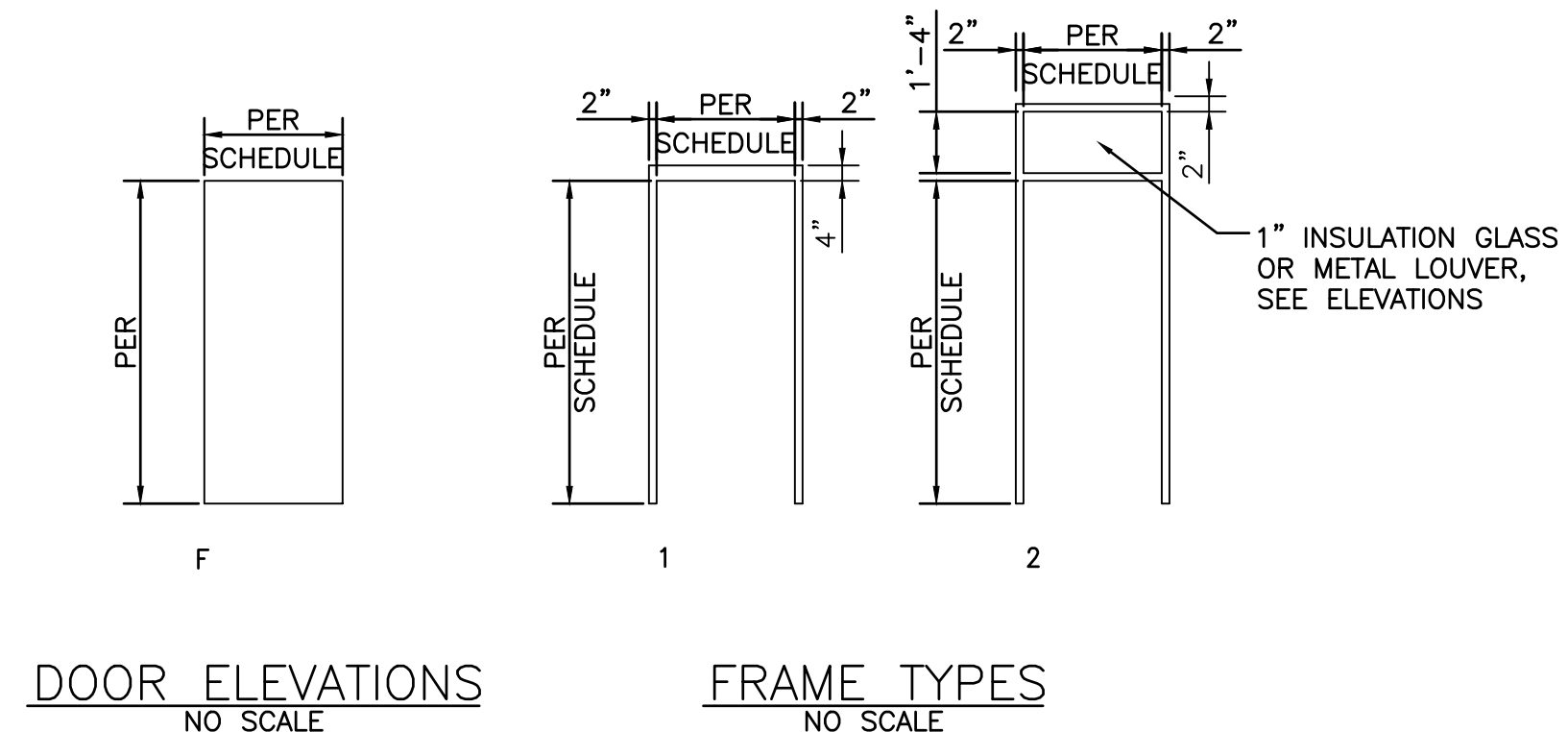
PROJECT MGR.
STEVE KLUESNER



SHEET
23
12-ASM5.3

DOOR SCHEDULE																
DOOR NUMBER	DOOR						FRAME		HARDWARE GROUP	LINTEL	DETAILS			NOTES		
	SIZE	MATERIAL	TYPE		SWING		TYPE	MATERIAL			LABEL	HEAD	JAMB		SILL	
			ACTIVE	INACTIVE	ACTIVE	INACTIVE										
WELL HOUSE NO. 12																
101A	3'-0"X7'-0"	STL	F	--	RHR	--	1	FRP	--	5	--	B-1	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	
102A	3'-0"X7'-0"	STL	F	--	LHR	--	1	FRP	--	5	--	B-1	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	
103A	3'-0"X7'-0"	STL	F	--	LHR	--	1	STL	--	4	--	B-1	A/12-ASM5.2	A/12-ASM5.2	--	
104A	(2) 3'-2"X7'-0"	STL	F	F	LHR	RHR	2	STL	--	1	3	B-2	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	1, 2
104B	3'-0"X7'-0"	STL	F	--	RHR	--	2	STL	--	1	--	B-1	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	
105A	3'-0"X7'-0"	FRP	F	--	RHR	--	1	STL	--	2	--	B-1	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	
106A	3'-0"X7'-0"	FRP	F	--	RHR	--	1	STL	--	2	--	B-1	A/12-ASM6.1	A/12-ASM6.1	J/12-ASM5.1	

STRUCTURAL DESIGN CRITERIA		
DESIGN CODES	BUILDING CODE	IBC 2015
	CONCRETE DESIGN CODE	ACI 318-14
FLOOR LIVE LOAD	MASONRY DESIGN CODE	ACI 530-13
	OCCUPANCY CATEGORY	III
	UNIFORMLY DISTRIBUTED (PSF)	100
	CONCENTRATED (LBS)	EQUIPMENT OPERATING WEIGHTS VARY FROM EQUIP. MFR.
ROOF LIVE LOAD	REDUCTION	PER IBC CODE
	MINIMUM ROOF LIVE LOAD (PSF)	20
ROOF SNOW LOAD	GROUND SNOW LOAD (P _g) (PSF)	30
	SLOPED ROOF SNOW LOAD	27.7
	SNOW EXPOSURE FACTOR (C _e)	1.2
	SNOW LOAD IMPORTANCE FACTOR (I _s)	1.10
	THERMAL FACTOR (C _t)	1
WIND LOAD	BASIC 3-SECOND GUST WIND SPEED (MPH)	120
	WIND IMPORTANCE FACTOR (I _w)	1.00
	WIND EXPOSURE	C
EARTHQUAKE DESIGN DATA	INTERNAL PRESSURE COEFFICIENT (GC _{pi})	0.18
	COMPONENTS AND CLADDING DESIGN WIND PRESSURE (PSF)	PER IBC CODE
GEOTECHNICAL	SEISMIC IMPORTANCE FACTOR (I _e)	1.00
	SITE CLASS	D
	SPECTRAL RESPONSE COEFFICIENTS	S _{DS} 0.093 S _{D1} 0.075
	SEISMIC DESIGN CATEGORY	B
	BASIC SEISMIC FORCE RESISTING SYSTEM (ALL CONCRETE BLOCK BUILDINGS)	DETAILED PLAIN MASONRY SHEAR WALLS
	RESPONSE MODIFICATION COEFFICIENT (R)	2
	DESIGN BASE SHEAR ANALYSIS PROCEDURE	0.058 W SIMPLIFIED
NET ALLOWABLE SOIL BEARING PRESSURE	3000	
PLANNED SUBGRADE	1' BELOW BOT. OF FOOTING	



LINTEL SCHEDULE				
LOCATION	OPENING TYPE	OPENING CLEAR WIDTH(S)	LINTEL TYPE	NOTES
Well House No. 12				
East Wall - Room 103	HVAC	17'-4"	C / 12-ASM5.3	3
South Wall - Room 103	HVAC	12'-8"	B-3	3
South Wall - Room 104	HVAC	4'-8"	B-1	
South Wall - Room 104	HVAC	4'-8"	B-1	
West Wall - Room 105	HVAC	3'-4"	-	1
West Wall - Room 106	HVAC	3'-4"	-	1

NOTES:
1. SEE DOOR AND WINDOW SCHEDULES FOR LINTELS AT DOORS AND WINDOWS.
2. SEE DETAIL F / 12-ASM5.2 FOR LINTEL TYPES AND DETAILS.
3. BRACE LINTEL AT INTERNAL POST LOCATIONS PER DETAIL G / 12-ASM5.1.

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	N. WALL	E. WALL	S. WALL	W. WALL	CEILING		NOTES
								TYPE	HGT.	
WELL HOUSE NO. 12										
101	UNISEX RESTROOM NO. 1	F1	B1	W1	W1	W1	W1	C1	11'-4"	
102	UNISEX RESTROOM NO. 2	F1	B1	W1	W1	W1	W1	C1	11'-4"	
103	GENERATOR ROOM	F1	B1	W1	W1	W1	W1	C1	11'-4"	
104	PUMP ROOM	F1	B1	W1	W1	W1	W1	C1	11'-4"	
105	SODIUM HYPO/PHOSPHATE	F1	B1	W1	W1	W1	W1	C1	11'-4"	1
106	FLOURIDE ROOM	F1	B1	W1	W1	W1	W1	C1	11'-4"	1

LEGEND:
FLOOR: F1 EPOXY FLOORING
BASE: B1 4" RESIN EPOXY
WALL: W1 PAINT CONCRETE BLOCK
CEILING: C1 PAINT PRECAST CONCRETE PLANK

NOTES:
1. PROVIDE CHEMICAL RESISTANT COATING ON FLOOR AND CURBS OF CHEMICAL CONTAINMENT AREAS.

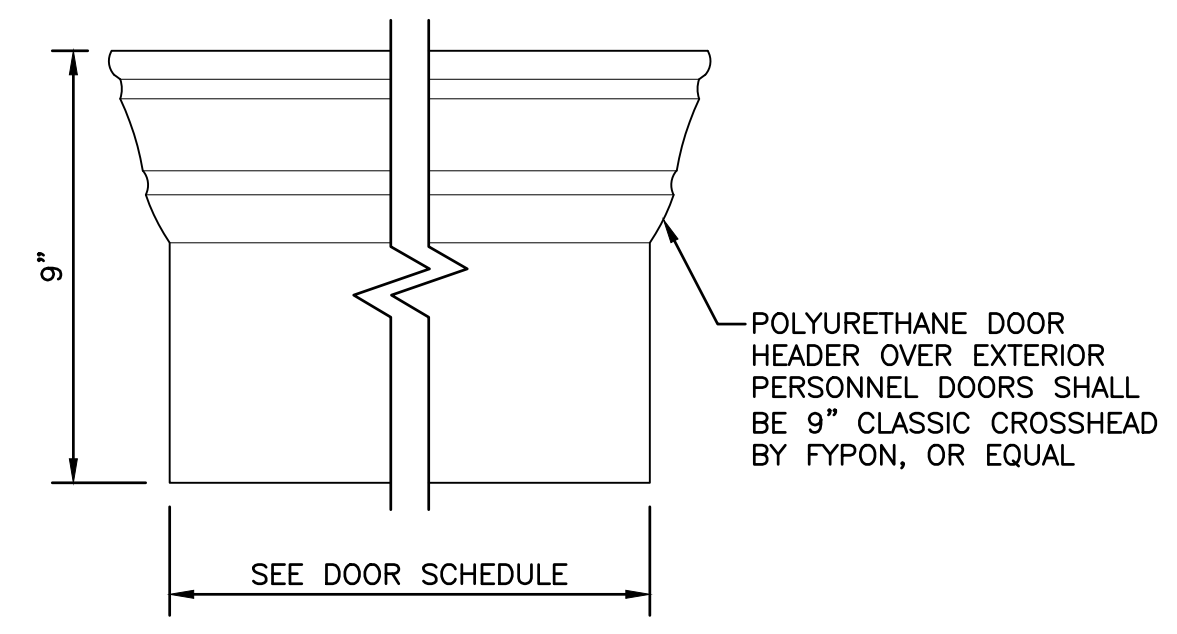
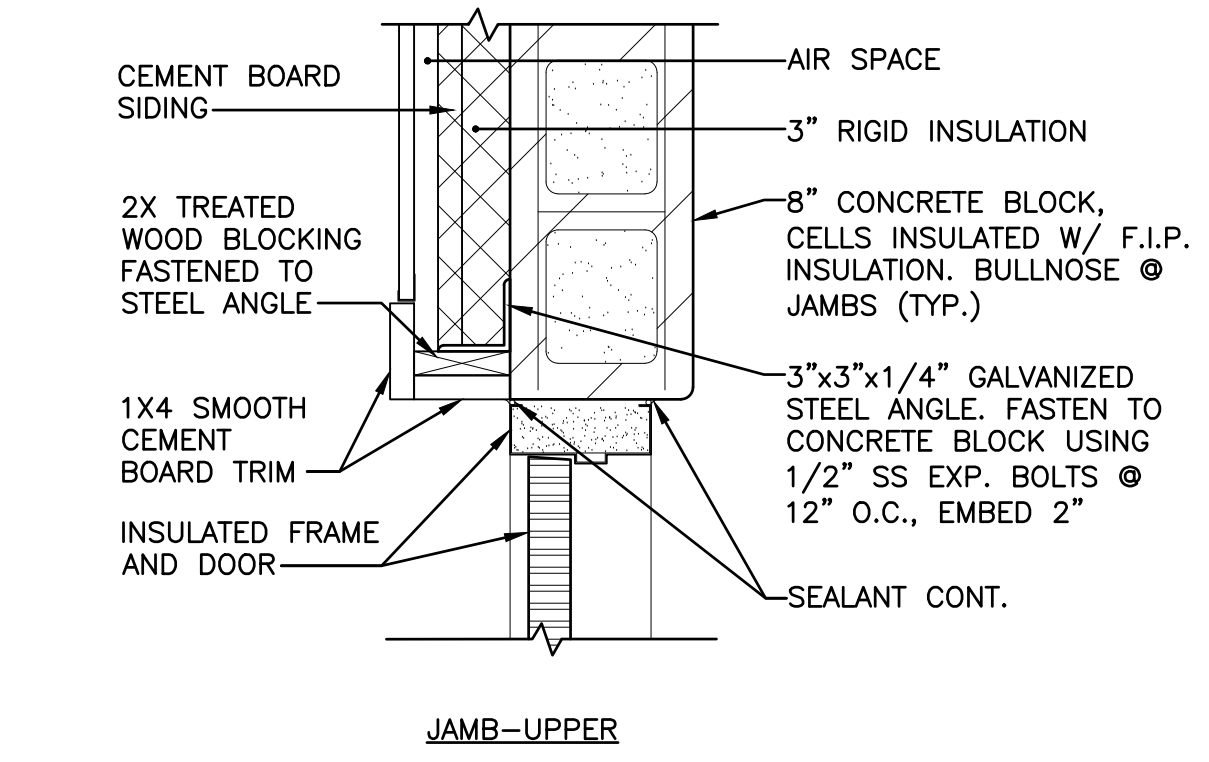
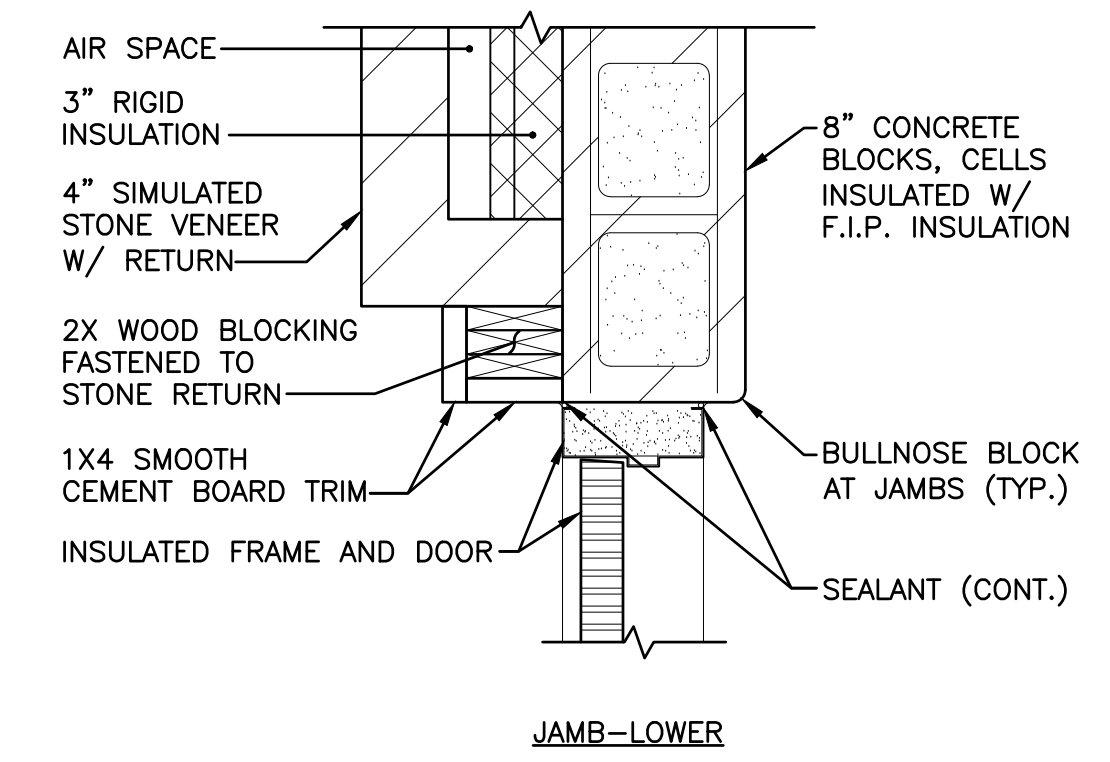
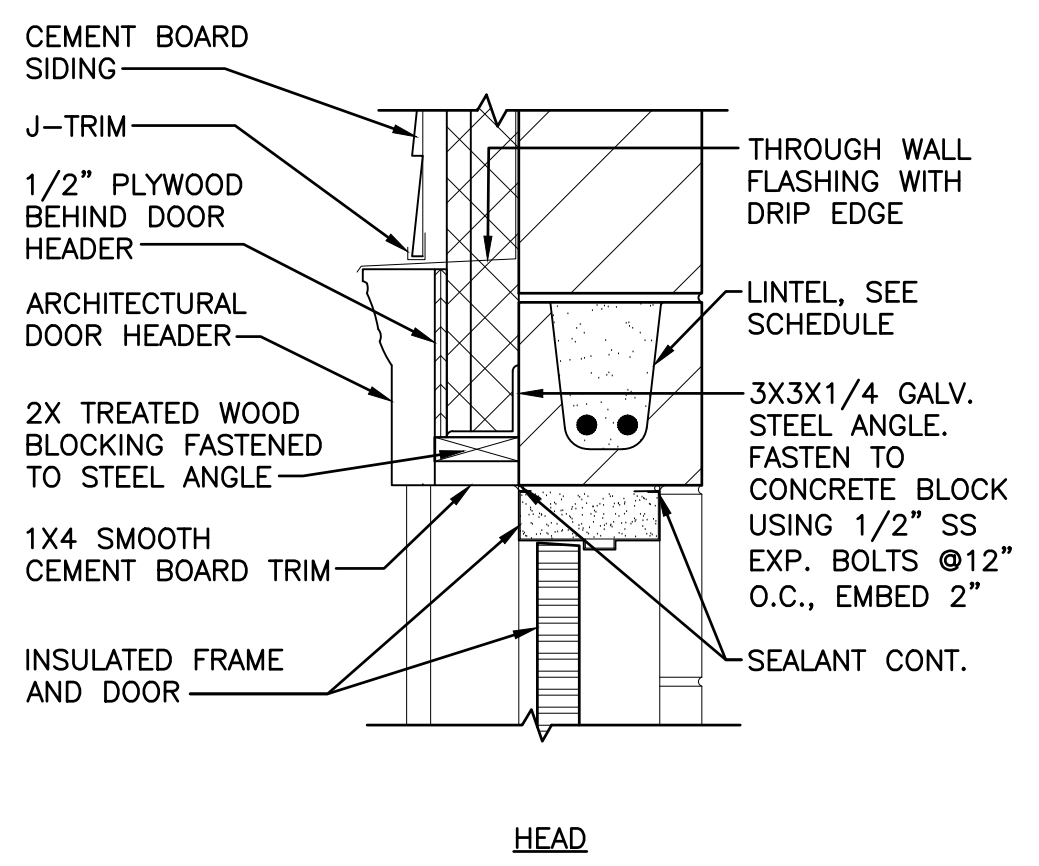
- GENERAL NOTES:
- DIMENSIONS TO NEW MASONRY WALLS ARE SHOWN FROM FACE OF WALL UNLESS NOTED OTHERWISE. DIMENSIONS TO NEW INTERIOR PARTITIONS ARE GIVEN FROM THE CENTERLINE OF WALL UNLESS NOTED OTHERWISE.
 - FOR TREATMENT OF WALLS, FLOORS, AND CEILING NOT INDICATED ON DRAWINGS, SEE ROOM FINISH SCHEDULE ON THIS SHEET.
 - FOR DOOR AND SCHEDULE SEE THIS SHEET.
 - PROVIDE LINTELS AS PER DOOR SCHEDULE AND LINTEL SCHEDULE ON THIS SHEET.
 - FOR FILL AND BACKFILL REQUIREMENTS, SEE C 12-C5.1
 - REMOVE AND REPLACE UNSUITABLE SOILS FROM BENEATH STRUCTURES AS DIRECTED BY THE PROJECT SOILS ENGINEER AND PROVIDE GROUND IMPROVEMENT SYSTEM AS SPECIFIED AND/OR SHOWN ON DRAWINGS FOR AFFECTED STRUCTURES.
 - WHERE ADHESIVE ANCHOR DOWELS ARE CALLED OUT ON DRAWINGS, ROUGHEN JOINT SURFACE TO 1/4" AMPLITUDE. PROVIDE BONDING AGENT AND EMBED DOWELS 5" MIN. INTO CONCRETE UNLESS NOTED OTHERWISE. CONCRETE MUST BE CURED MINIMUM 21 DAYS BEFORE ADHESIVE INSTALLATION.
 - PROVIDE MINIMUM CLEAR COVER OVER REINFORCING STEEL PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - PROVIDE MINIMUM LAP LENGTHS AS SHOWN ON THE LAP LENGTH SCHEDULE ON THIS SHEET.
 - HORIZONTAL REINFORCING BARS IN WALLS SHALL BE PLACED OUTSIDE OF THE VERTICAL BARS IN WALLS UNLESS SHOWN OTHERWISE.
 - PROVIDE CORNER REINFORCING AT BASEMENT AND FOUNDATION WALLS PER D 12-ASM5.1
 - WHERE PIPING PASSES THROUGH MASONRY WALLS, PROVIDE SLEEVE PER C 12-ASM5.2
 - UNLESS NOTED OTHERWISE, PROVIDE #4@48" VERTICAL REINFORCING FULL HEIGHT CENTERED IN 8" CMU WALLS. EXTEND BARS 6" INTO BOND BEAM AT TOP OF WALL. LAP VERTICAL BARS WITH #4@48"x2'-6" LONG DRILLED ADHESIVE ANCHOR DOWELS EMBEDDED 6" INTO FOUNDATION AT BASE OF WALL. LAP VERTICAL BARS PER SCHEDULE ON THIS DRAWING AND GROUT REINFORCED CELLS FULL HEIGHT.
 - PROVIDE #4 VERTICAL BARS AND FOUNDATION DOWELS AT ALL WALL CORNERS, WITHIN 16" OF EACH SIDE OF ALL WALL OPENINGS, AND WITHIN 8" OF EACH SIDE OF MASONRY CONTROL JOINTS.

BAR SIZE	WALLS		SLABS	
	VERT. BARS	HORIZ. BARS	TOP MAT BARS	BOTTOM MAT BARS
#4	1'-6"	1'-10"	1'-10"	1'-6"
#5	1'-9"	2'-2"	2'-2"	1'-9"
#6	2'-0"	2'-7"	2'-7"	2'-0"
#7	2'-11"	3'-8"	3'-8"	2'-11"
#8	3'-3"	4'-2"	4'-2"	3'-3"
#9	4'-0"	5'-2"	5'-2"	4'-0"
#10	4'-11"	6'-4"	6'-4"	4'-11"
#11	5'-10"	7'-8"	7'-8"	5'-10"

NOTES:
1. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED, USE LAP LENGTH FOR SMALLER BAR.
2. USE LAP LENGTHS IN THIS TABLE WHERE LAP LENGTH IS NOT SHOWN ON DRAWING.
3. TABLE DOES NOT APPLY FOR BEAMS AND COLUMNS.

CLEAR COVER TO REINFORCING BARS	
ITEM	MINIMUM CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH, LIQUID, OR WEATHER	2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER, LIQUID, OR IN CONTACT WITH GROUND	1"

NOTES:
1. CLEAR COVER IS MEASURED FROM MEMBER FACE TO NEAREST EDGE OF REINFORCING BAR.
3. FOR WALLS AND SLABS WITH SINGLE MAT OF REINFORCING, PLACE REBAR WHERE SHOWN ON THE DRWGS. WHERE COVER IS NOT INDICATED, CENTER SINGLE MAT OF REINFORCING IN WALL OR SLAB.



MASONRY LAP LENGTHS FOR REINFORCING BARS	
BAR SIZE	8" CMU
#3	1'-3"
#4	1'-3"
#5	1'-10"
#6	3'-3"
#7	4'-4"

NOTES:
1. USE LAP LENGTHS IN THIS TABLE UNLESS NOTED OTHERWISE ON DRAWINGS.
2. TABLE DOES NOT APPLY FOR COLUMNS.
3. TABLE DOES NOT APPLY FOR MULTIPLE BARS PER CELL.
4. LAP LENGTHS FOR CMU ARE BASED ON f_m = 2000 PSI.

A EXTERIOR DOOR DETAILS
12-ASM6.1

B ARCHITECTURAL DOOR HEADER
12-ASM6.1

DATE	REVISIONS	NO.

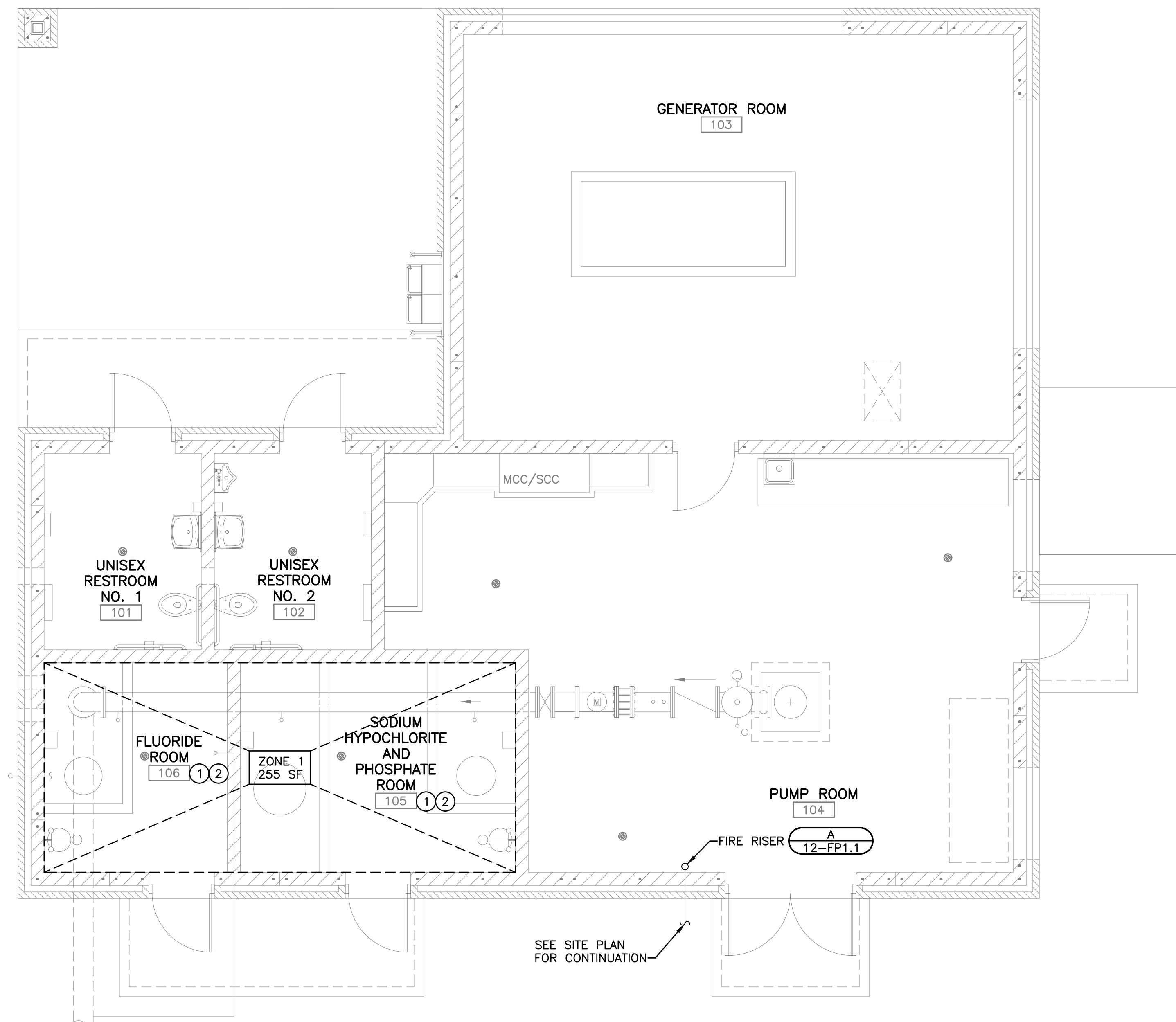
WELL NO. 12 SCHEDULES - 1

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
24
12-ASM6.1

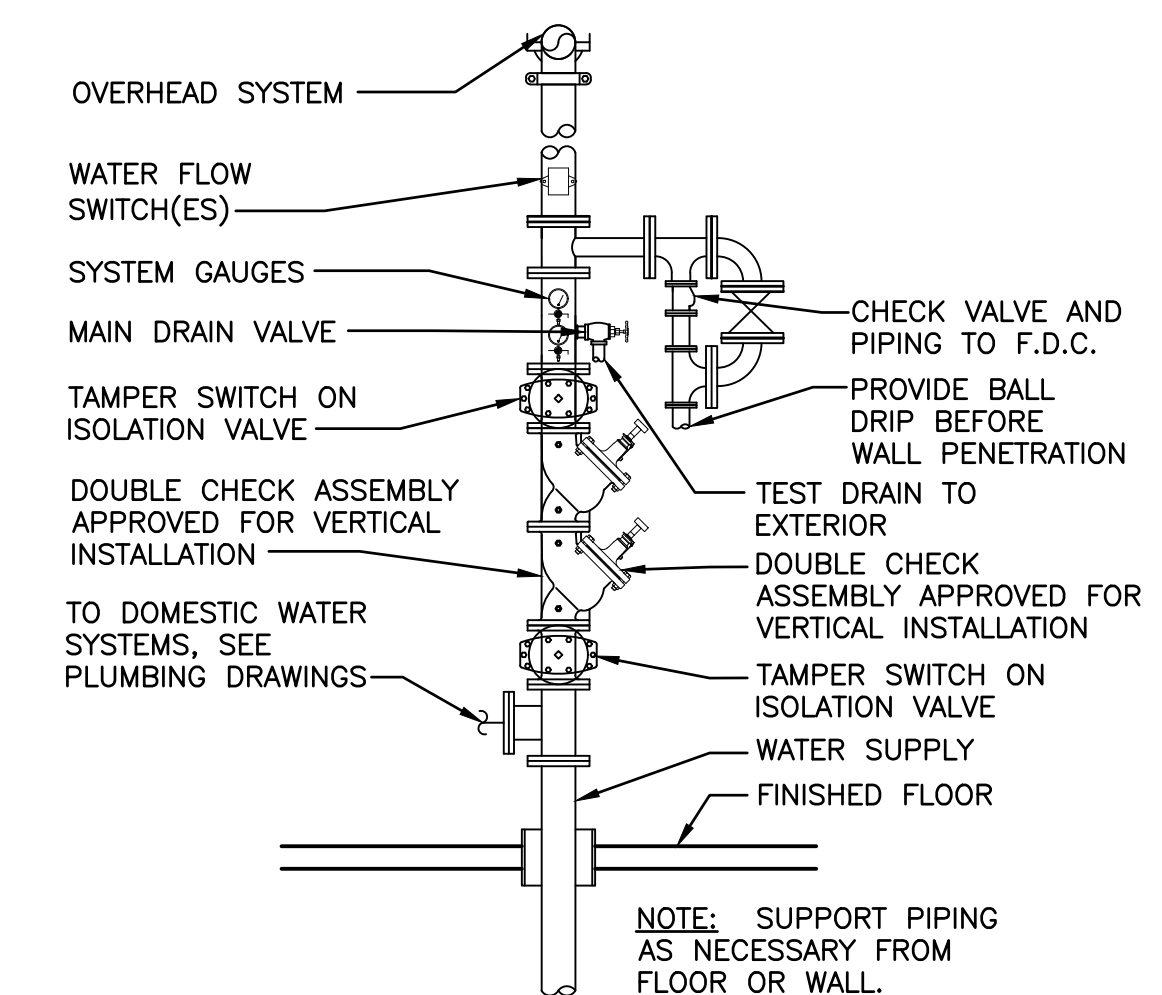


GENERAL NOTES:

1. FIRE PROTECTION DRAWINGS AND SPECIFICATIONS ARE INTENDED FOR BIDDING PURPOSES ONLY. UPON CONTRACT AWARD, FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL SYSTEM DESIGN (SPRINKLER HEAD LOCATION AND TYPE, PIPE SIZE, FIRE PUMP SIZE, ETC.) BASED ON CONTRACTOR FURNISHED WATER PRESSURE AND FLOW DATA, HYDRAULIC CALCULATIONS FOR PROPOSED SYSTEM LAYOUT, AND EQUIPMENT SELECTIONS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILINGS, CEILING TYPES, AND CHANGES IN ELEVATION. VERIFY ALL CEILING HEIGHTS AT SITE PRIOR TO INSTALLATION.
3. FIRE PROTECTION CONTRACTOR SHALL PERFORM WATER FLOW TEST AT FIRE HYDRANT PRIOR TO FINAL SPRINKLER DESIGN.
4. FIRE PROTECTION HYDRAULIC CALCULATIONS FOR AUTOMATIC SPRINKLER SYSTEM SHALL INCORPORATE MINIMUM SAFETY FACTOR AND SIZE PIPING ACCORDING TO APPLICABLE CODES AND STANDARDS.
5. PRESSURE TEST OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE WITNESSED BY THE FIRE DEPARTMENT AND OWNER'S INSURANCE AGENCY UNLESS SPECIFICALLY WAIVED. TWO (2) WEEKS WRITTEN ADVANCE NOTICE OF TEST SHALL BE GIVEN.
6. ALL LEAKAGE EVIDENCED BY TESTING SHALL BE REPAIRED BY TIGHTENING OR REPLACING FITTING OR EQUIPMENT ONLY.
7. ALL REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE. CAULKING, WRAPPING OR OTHER MEANS OF REPAIR SHALL NOT BE PERMITTED.
8. ALL PIPE PENETRATIONS THROUGH WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT AND MAINTAIN FIRE RATING. SEE LIFE SAFETY PLAN FOR LOCATIONS OF ANY FIRE RATED ASSEMBLIES.
9. SPRINKLERS NEAR HEATERS AND LOCATED WITHIN HEATER ZONES AS DEFINED BY NFPA-13, LATEST EDITION, SHALL MEET CODE REQUIRED TEMPERATURE RATINGS.
10. ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
11. CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL REQUIRED PIPING OFFSETS FOR COMPLETE SYSTEM INSTALLATION.
13. SEE SPECIFICATION SECTION 21 10 00 FOR ADDITIONAL INFORMATION.

KEY NOTES:

- ① ROOM SHALL BE FIRE PROTECTED.
- ② ALL FIRE PROTECTION PIPING, HEADS, AND DEVICES IN THIS ROOM SHALL BE SUITABLE FOR CORROSIVE ENVIRONMENTS. PIPING SHALL BE SCH 80 PVC.



WATER SERVICE ENTRANCE/FIRE RISER
A 12-FP1.1 NO SCALE

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2025

WELL NO. 12 FIRE PROTECTION PLAN

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



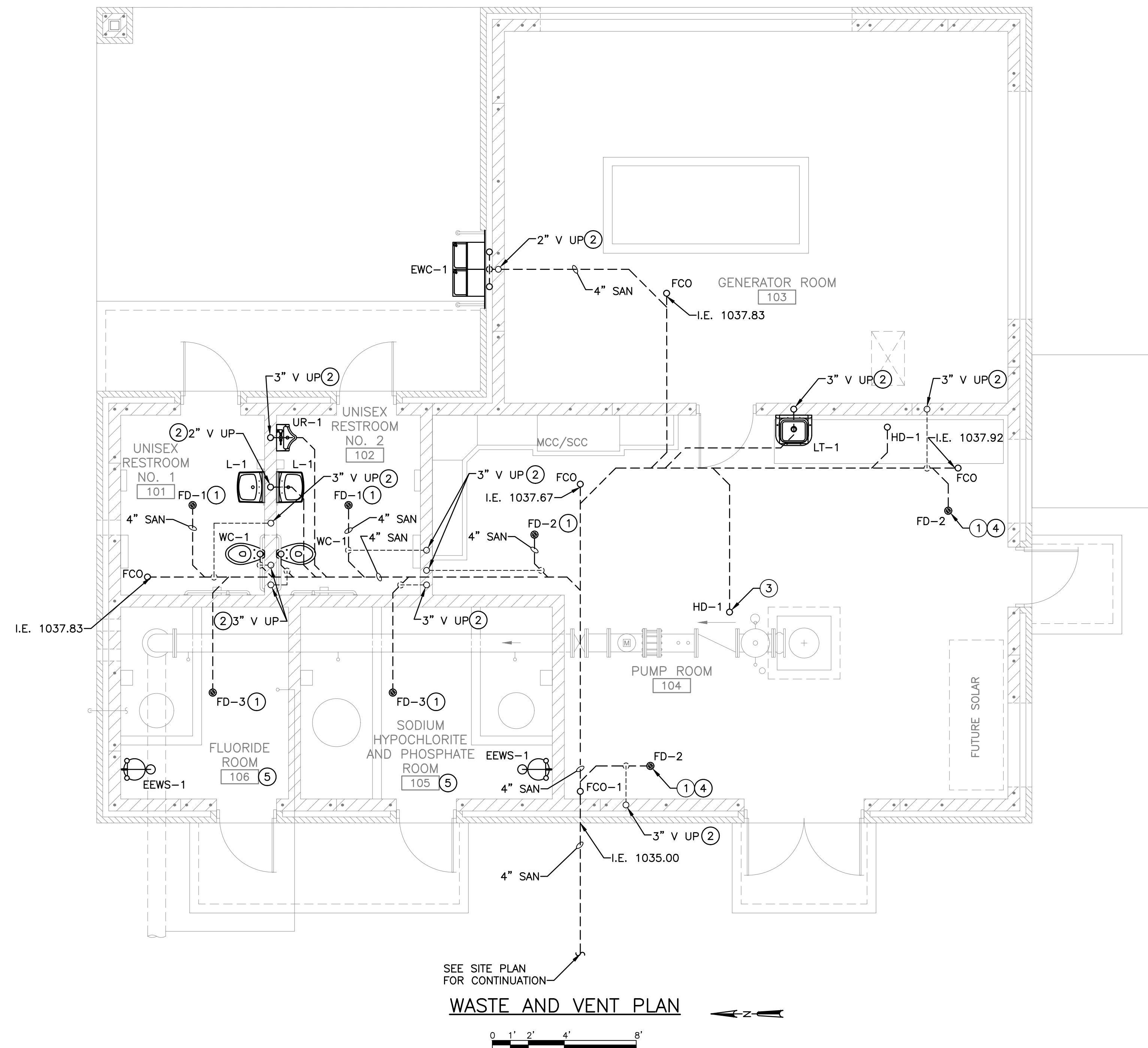
SHEET
25
12-FP1.1

GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
2. PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS.
3. CONTRACTOR SHALL PROVIDE EQUIPMENT AND INSTALLATION TO MEET APPLICABLE CODE REQUIREMENTS IN CONJUNCTION WITH THESE DRAWINGS DOCUMENTS AND ASSOCIATED SPECIFICATIONS.
4. ALL FLOOR DRAIN GRATES AND CLEANOUT COVERS SHALL MATCH FLOOR SLOPE.
5. UNLESS OTHERWISE INDICATED, SLOPE ALL DRAIN, WASTE, AND VENT PIPING AS FOLLOWS:
 - 3" AND SMALLER: MINIMUM 1/4" PER FOOT.
 - LARGER THAN 3": MINIMUM 1/8" PER FOOT.
6. FINISHED FLOOR ELEVATION = 1040'-0".

KEY NOTES:

- ① PROVIDE TRAP GUARD WITH DRAIN FIXTURE.
- ② ROUTE VENT UP IN CMU WALL. ABOVE ROOM, EXIT WALL. IN INTERSTITIAL SPACE, CONNECT ALL VENT PIPES TOGETHER AND ROUTE ONE 4" VENT PIPE UP THROUGH ROOF. SEE WASTE AND VENT SCHEMATIC FOR DETAILS.
- ③ HUB DRAIN SHALL BE MINIMUM 2 FEET FROM OUTER CASING.
- ④ FLOOR DRAIN SHALL BE MINIMUM 8 FEET FROM WELL CENTER.
- ⑤ EQUIPMENT, PIPING, AND ACCESSORIES IN THIS ROOM SHALL BE SUITABLE FOR NEMA 4X (CORROSIVE) ENVIRONMENTS.



NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2025

WELL NO. 12 PLUMBING - WASTE AND VENT PLAN

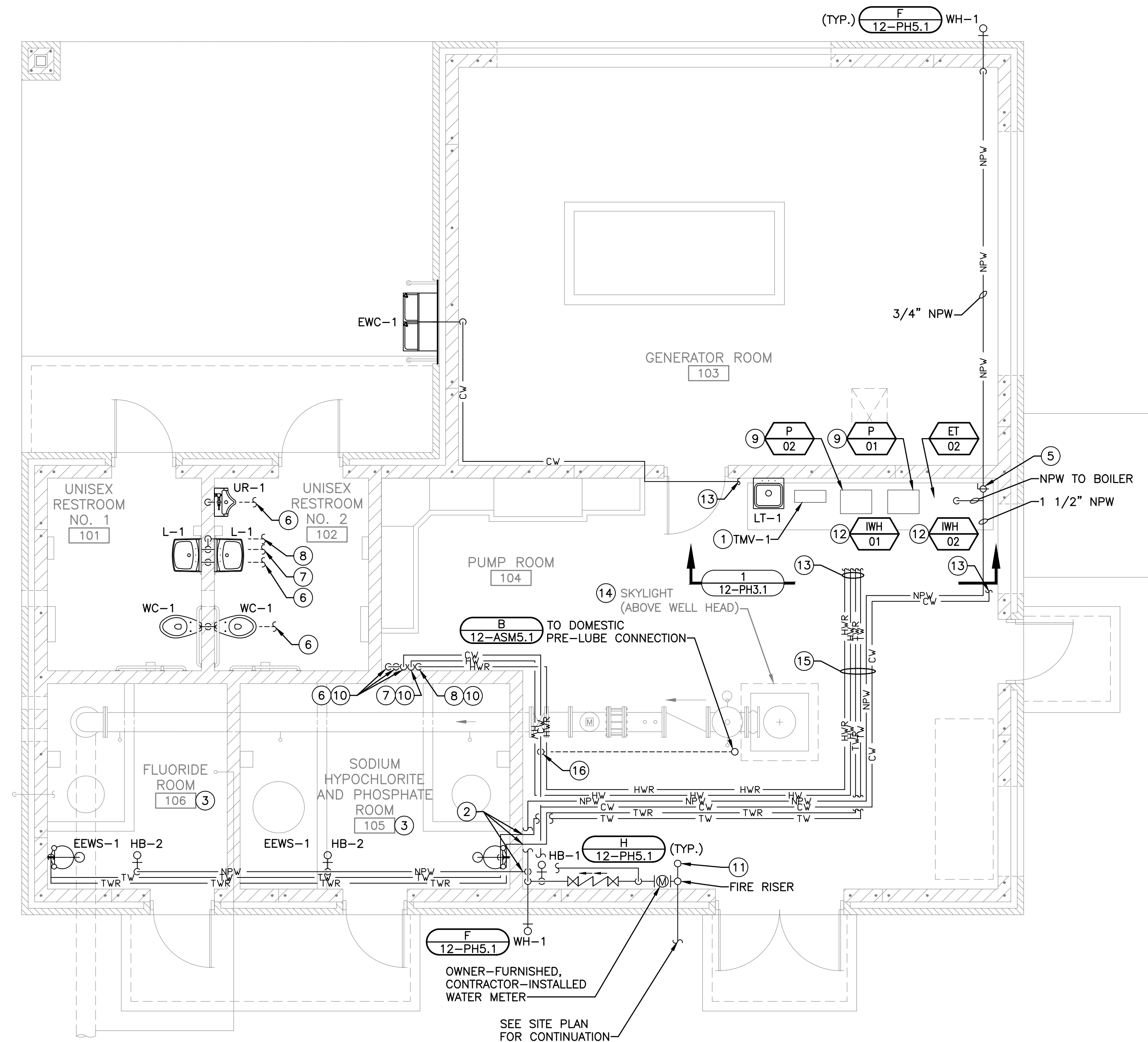
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

PROJECT MGR.
STEVE KLUESNER



SHEET
26
12-P1.1



WATER SUPPLY PLAN

0 1' 2' 4' 8'

GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
2. PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS.
3. CONTRACTOR SHALL PROVIDE EQUIPMENT AND INSTALLATION TO MEET APPLICABLE CODE REQUIREMENTS IN CONJUNCTION WITH THESE DRAWINGS DOCUMENTS AND ASSOCIATED SPECIFICATIONS.
4. ALL FLOOR DRAIN GRATES AND CLEANOUT COVERS SHALL MATCH FLOOR SLOPE.
5. UNLESS OTHERWISE INDICATED, SLOPE ALL DRAIN, WASTE, AND VENT PIPING AS FOLLOWS:
 - 3" AND SMALLER: MINIMUM 1/4" PER FOOT.
 - LARGER THAN 3": MINIMUM 1/8" PER FOOT.
6. FINISHED FLOOR ELEVATION = 1040'-0".
7. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ORDER TO MAINTAIN FIRE RATING.

KEY NOTES:

- ① MOUNT THERMOSTATIC MIXING VALVE ON WALL. ROUTE TEMPERED WATER SUPPLY FROM MIXING VALVE TO EMERGENCY EYEWASH STATIONS.
- ② TRANSITION TO CPVC PIPING BEFORE ENTERING CHEMICAL ROOMS. ALL PIPING IN CHEMICAL ROOMS TO BE CPVC.
- ③ EQUIPMENT, PIPING, AND ACCESSORIES IN THIS ROOM SHALL BE SUITABLE FOR NEMA 4X (CORROSIVE) ENVIRONMENTS.
- ④ PROVIDE THERMOMETER ON HOT WATER SIDE OF WATER HEATER.
- ⑤ PROVIDE ISOLATION VALVE FOR NPW PIPING IN GENERATOR ROOM. PIPING SHALL BE DRAINABLE TO THE EXTERIOR OF THE BUILDING.
- ⑥ ROUTE COLD WATER LINES BELOW GROUND TO SERVE BATHROOM FIXTURES. NO FITTINGS PERMITTED UNDERGROUND.
- ⑦ ROUTE HOT WATER LINE BELOW GROUND TO SERVE LAVATORIES. NO FITTINGS PERMITTED UNDERGROUND.
- ⑧ ROUTE HOT WATER RETURN LINE BELOW GROUND TO SERVE LAVATORIES. NO FITTINGS PERMITTED UNDERGROUND.
- ⑨ SEE SCHEMATICS AND DETAIL (G) 12-PH5.1 FOR PIPING DETAILS.
- ⑩ WATER SUPPLY PIPING TO BATHROOM FIXTURES SHALL BE ROUTED AS HIGH AS POSSIBLE BELOW SLAB. CONTRACTOR THE VERIFY 6" CLEARANCE BETWEEN WATER SUPPLY PIPING AND SANITARY WASTE PIPING IS MET.
- ⑪ FINISH WATER SAMPLE TAP.
- ⑫ VENT INSTANTANEOUS GAS WATER HEATERS TO ROOF IN ACCORDANCE WITH DETAIL H-12-PH5.1.
- ⑬ SEE WATER SUPPLY SCHEMATIC ON DRAWING 12-P7.1 FOR WATER PIPING CONNECTIONS TO FIXTURES AND EQUIPMENT.
- ⑭ PIPING SHALL NOT BE ROUTED ABOVE WELL HEAD.
- ⑮ ROUTE PIPING AS HIGH AS POSSIBLE, TIGHT TO CEILING.
- ⑯ ROUTE CW TAKEOFF DOWN BELOW GROUND TO SERVE WELL HEAD DOMESTIC PRE-LUBE CONNECTION. NO FITTINGS PERMITTED UNDERGROUND.

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 PLUMBING - WATER SUPPLY PLAN

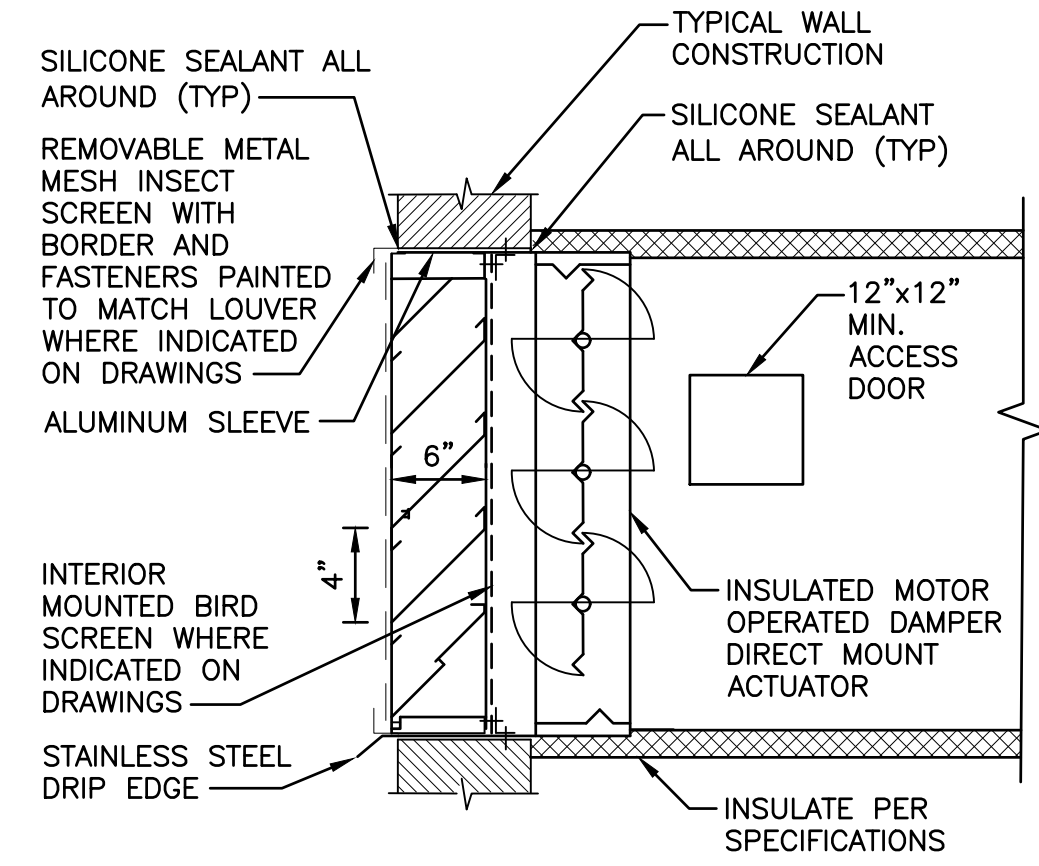
WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059

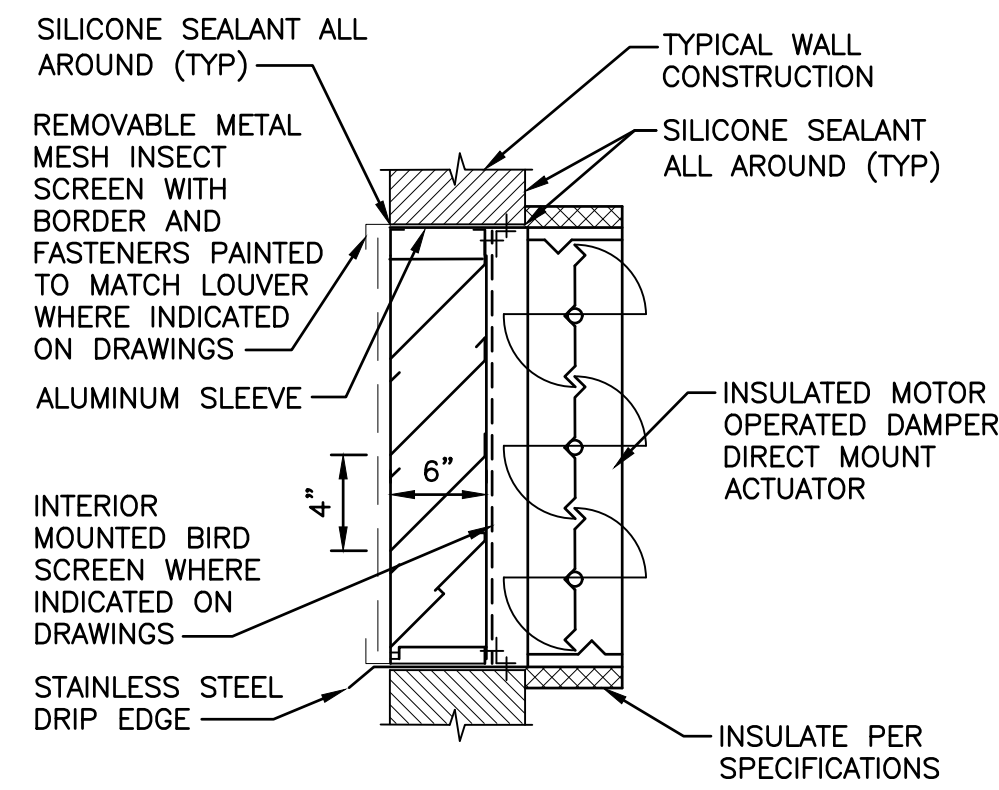
PROJECT MGR.
STEVE KLUESNER



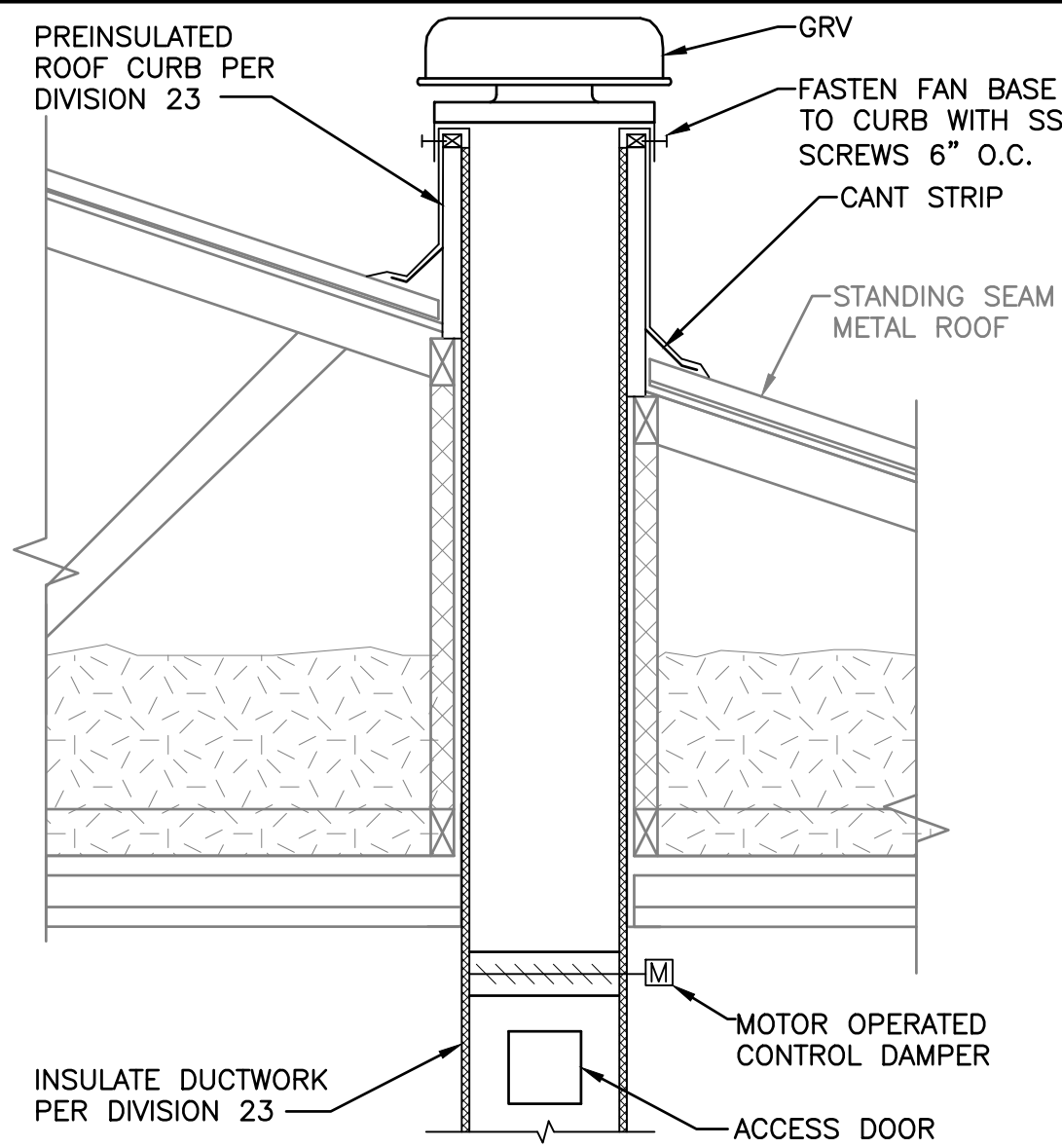
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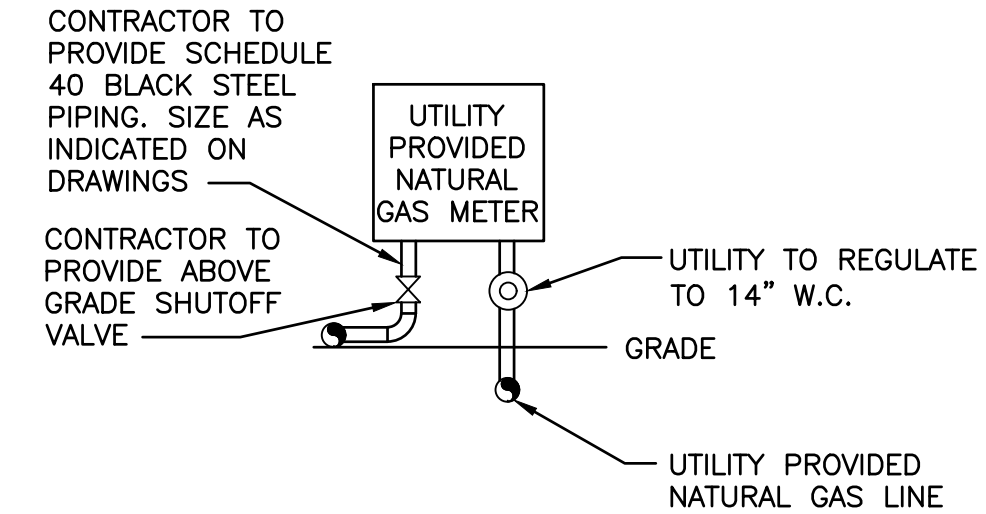
A WALL LOUVER, DAMPER, AND DUCTWORK
12-PH5.1 NO SCALE



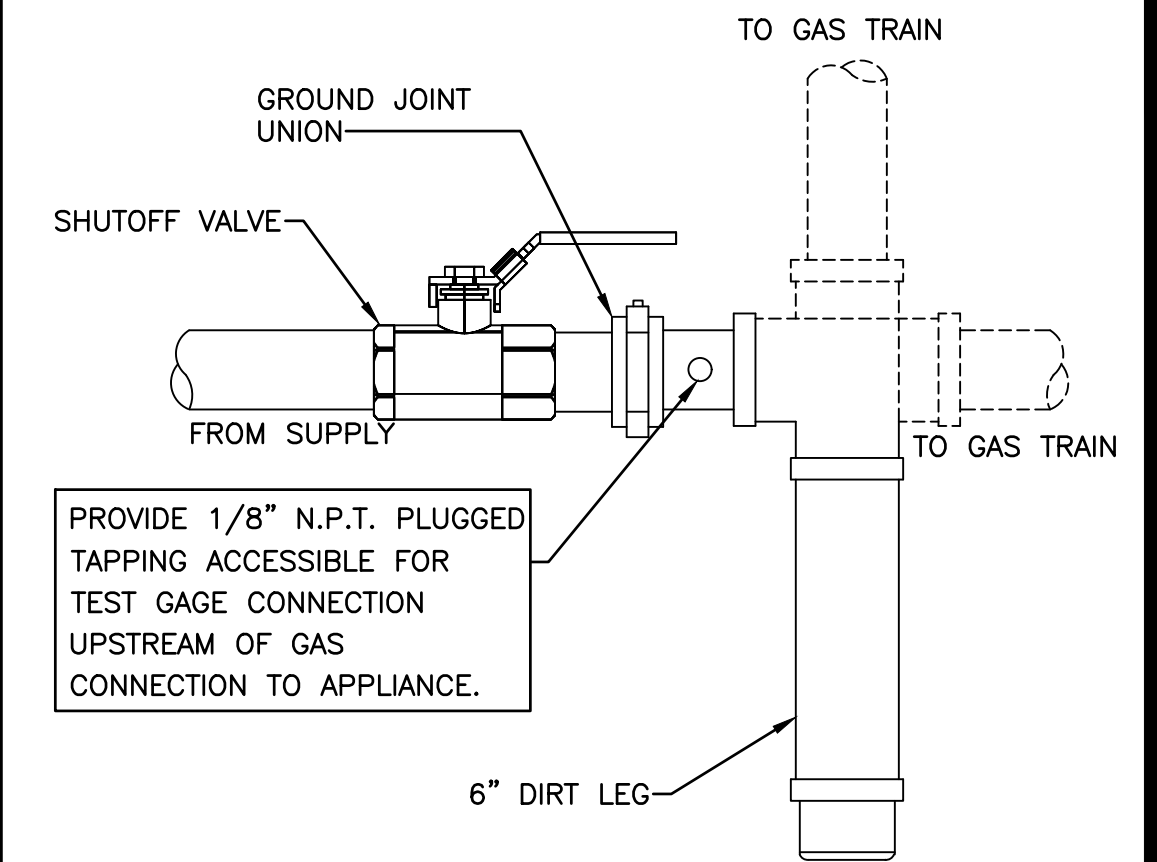
B WALL LOUVER AND DAMPER
12-PH5.1 NO SCALE



C GRAVITY ROOF VENTILATOR
12-PH5.1 NO SCALE

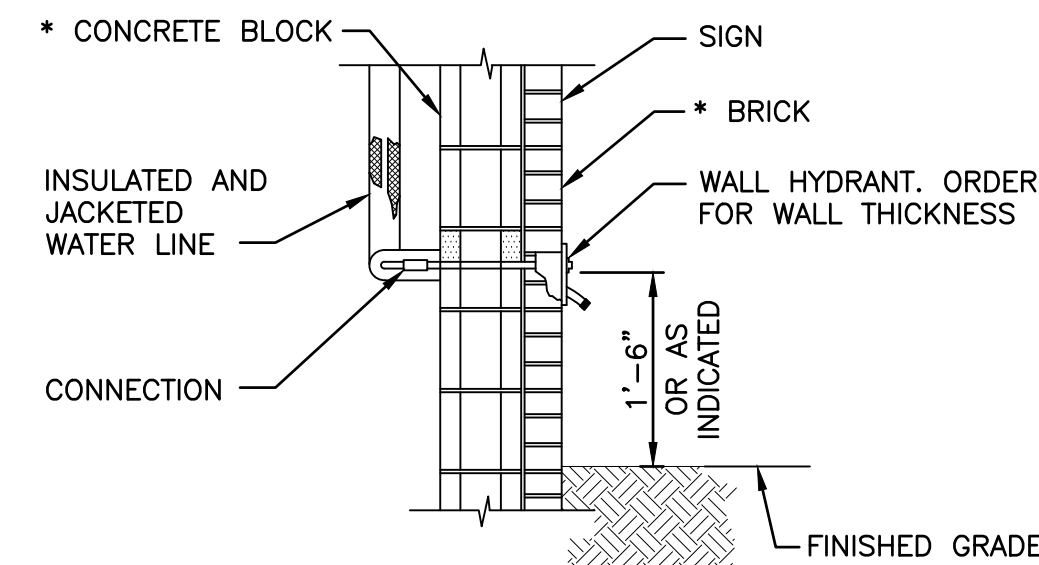


D GAS METER ELEVATION
12-PH5.1 NO SCALE

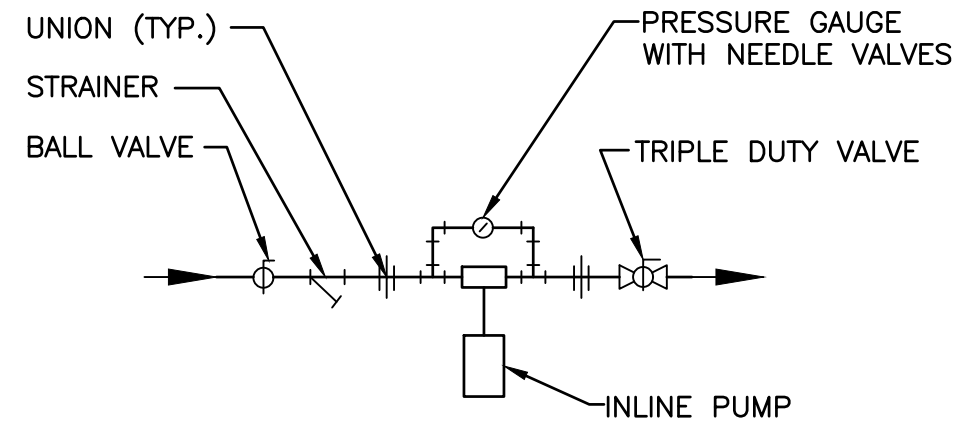


E NATURAL GAS CONNECTION
12-PH5.1 NO SCALE

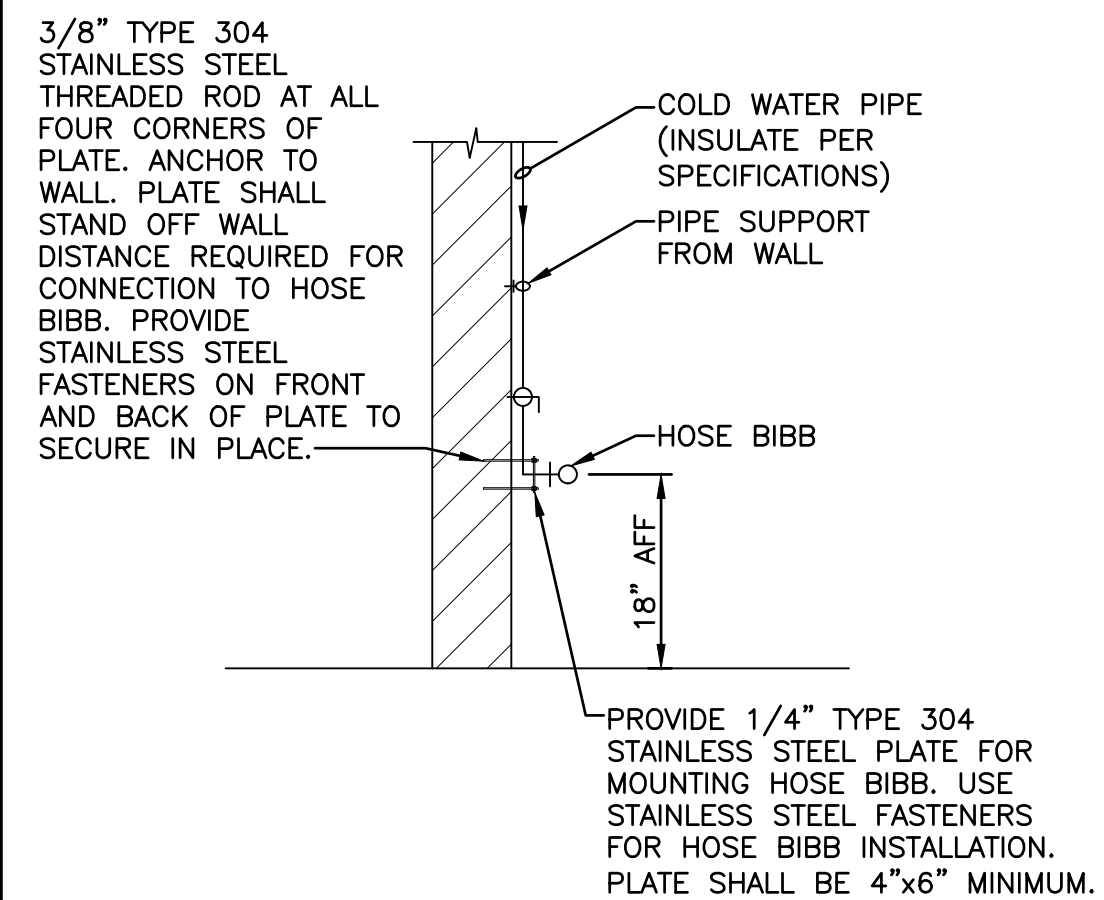
A WALL LOUVER AND DUCTWORK
12-PH5.1 NO SCALE



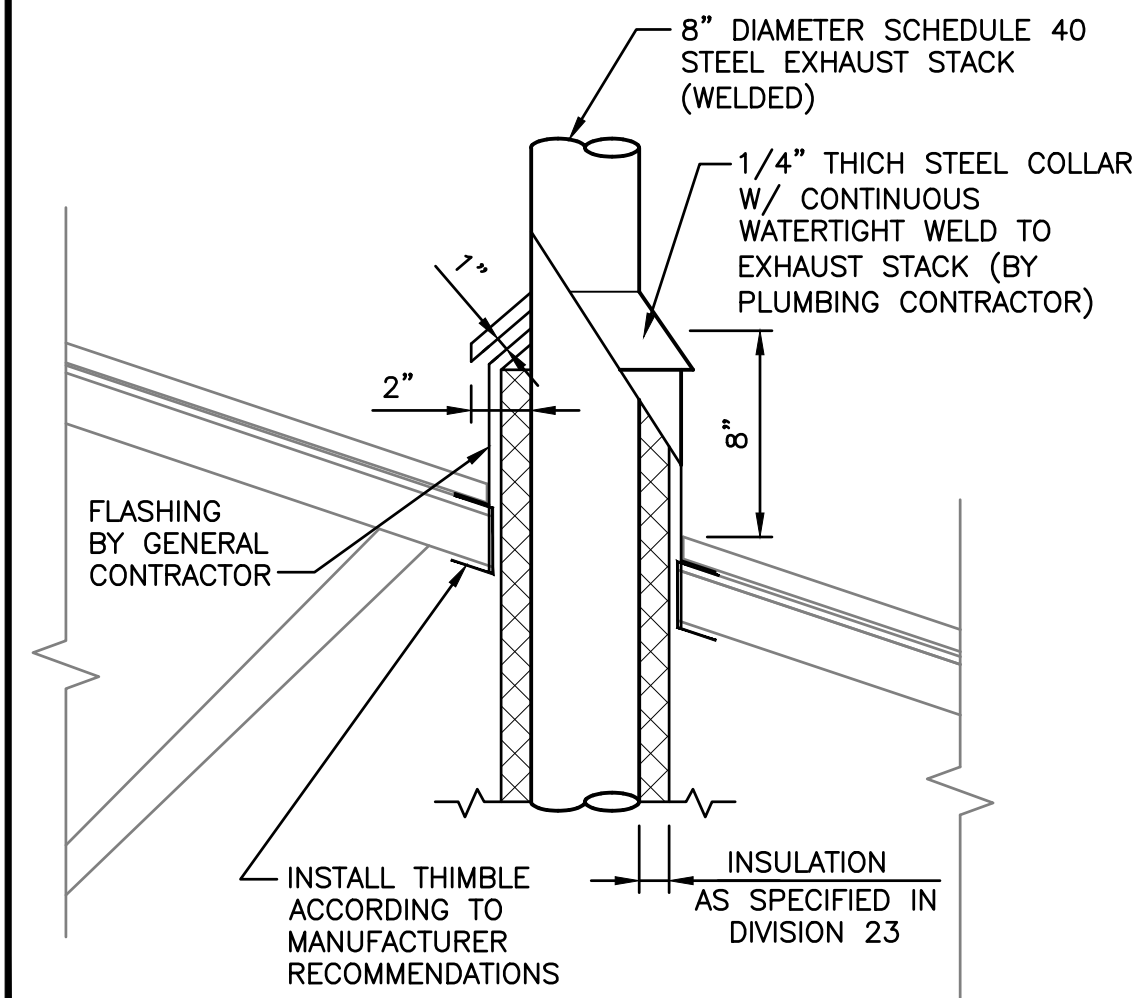
F EXTERIOR HOSE BIB
12-PH5.1 NO SCALE



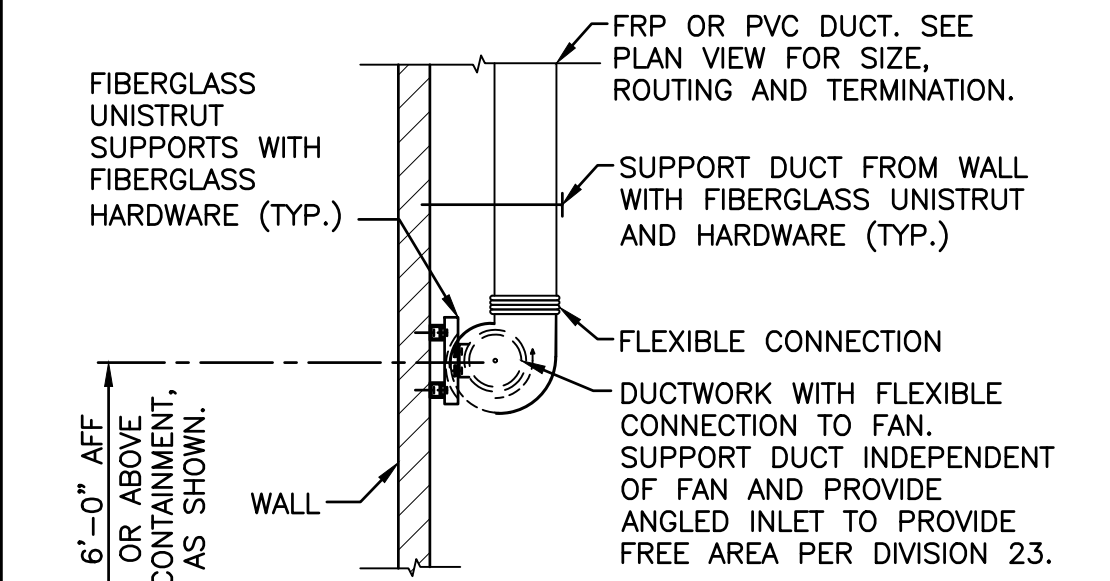
G INLINE PUMP DETAIL
12-PH5.1 NO SCALE



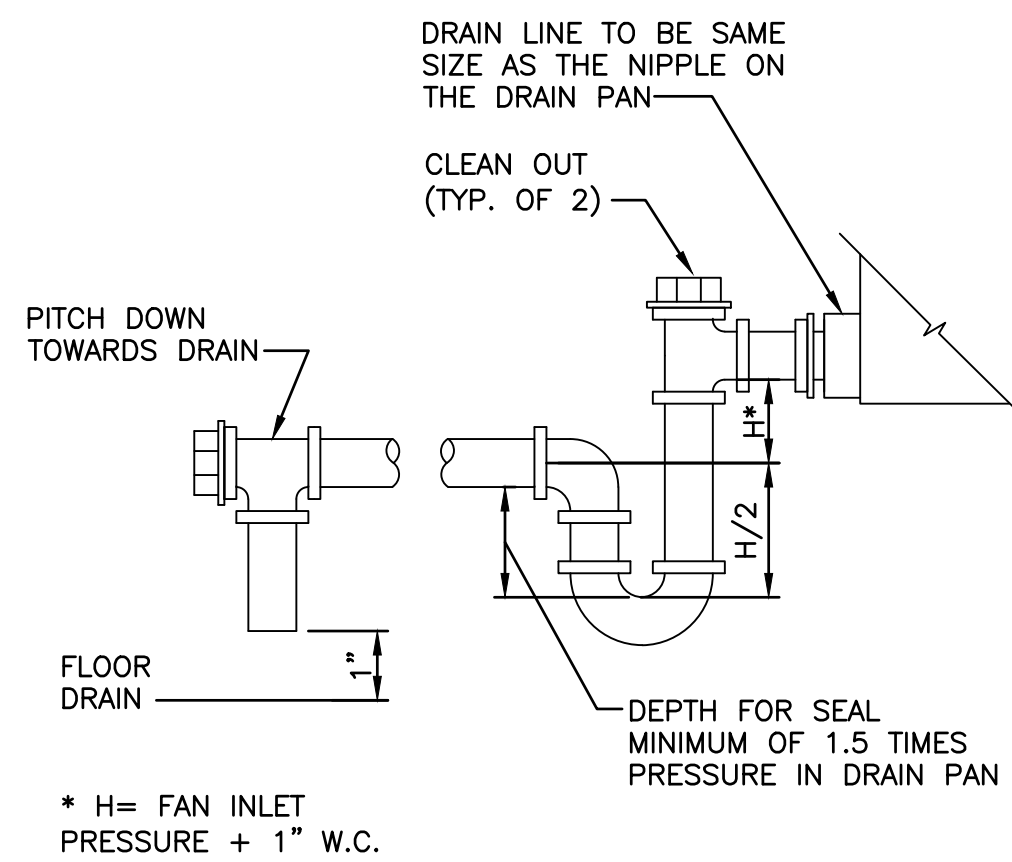
H INTERIOR HOSE BIB DETAIL
12-PH5.1 NO SCALE



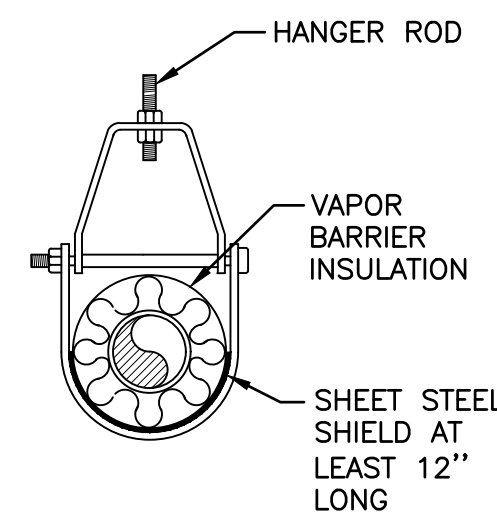
J GENERATOR EXHAUST STACK
12-PH5.1 NO SCALE



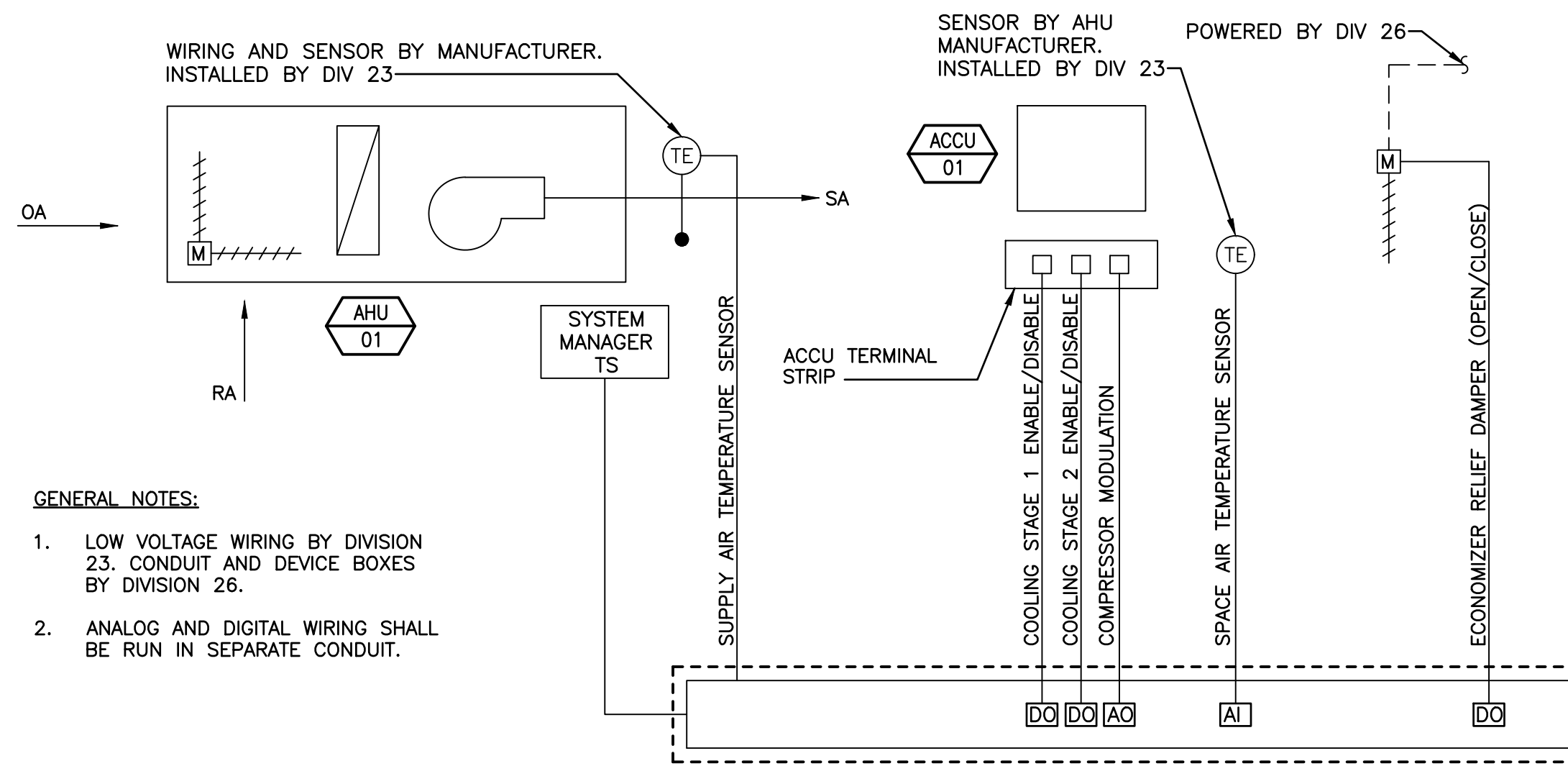
K CHEMICAL ROOM EXHAUST FAN
12-PH5.1 NO SCALE



L CONDENSATE DRAIN
12-PH5.1 NO SCALE



M PIPE HANGERS
12-PH5.1 NO SCALE



GENERAL NOTES:

1. LOW VOLTAGE WIRING BY DIVISION 23. CONDUIT AND DEVICE BOXES BY DIVISION 26.
2. ANALOG AND DIGITAL WIRING SHALL BE RUN IN SEPARATE CONDUIT.

N AIR HANDLING UNIT CONTROLS DIAGRAM
12-PH5.1 NO SCALE

NO.	REVISIONS	DATE:

WELL NO. 12 PLUMBING AND HVAC - DETAILS
WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
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12-PH5.1

PUMP SCHEDULE																
UNIT NO.	LOCATION	SERVICE	TYPE	BELL & GOSSETT MODEL NO.	FLOWRATE (GPM)	TOTAL HEAD (FT. OF WATER)	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	SUCTION SIZE (IN.)	DISCHARGE SIZE (IN.)	ELECTRICAL				REMARKS	
											VOLTS	PHASE	STARTER BY	STARTER TYPE		DISCONNECT BY
P-01	PUMP ROOM	HOT WATER LOOP	HWR	E ³ -4/CTXRZ	1.0	4.5	FRAC.	2,800	3/4	3/4	115	1	MANUFACTURER	FVNR	DIV. 26	
P-02	PUMP ROOM	TEMPERED WATER LOOP	TWR	E ³ -4/CTXRZ	1.0	4.5	FRAC.	2,800	3/4	3/4	115	1	MANUFACTURER	FVNR	DIV. 26	

INSTANTANEOUS WATER HEATER SCHEDULE											
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	INPUT (MBH)	TEMP. RISE/MAX. FLOWRATE (F)/GPM	MIN. FLOWRATE (GPM)	ELECTRICAL			UNIT WT. (LBS.)	REMARKS
							VOLTAGE	PHASE	FLA		
IWH-01	PUMP ROOM	RINNAI	CU199i	199	40/9.8	0.4	120	1	4	64	①
IWH-02	PUMP ROOM	RINNAI	CU199i	199	40/9.8	0.4	120	1	4	64	①

① SET OUTLET TEMPERATURE AT WATER HEATER TO 120°F.

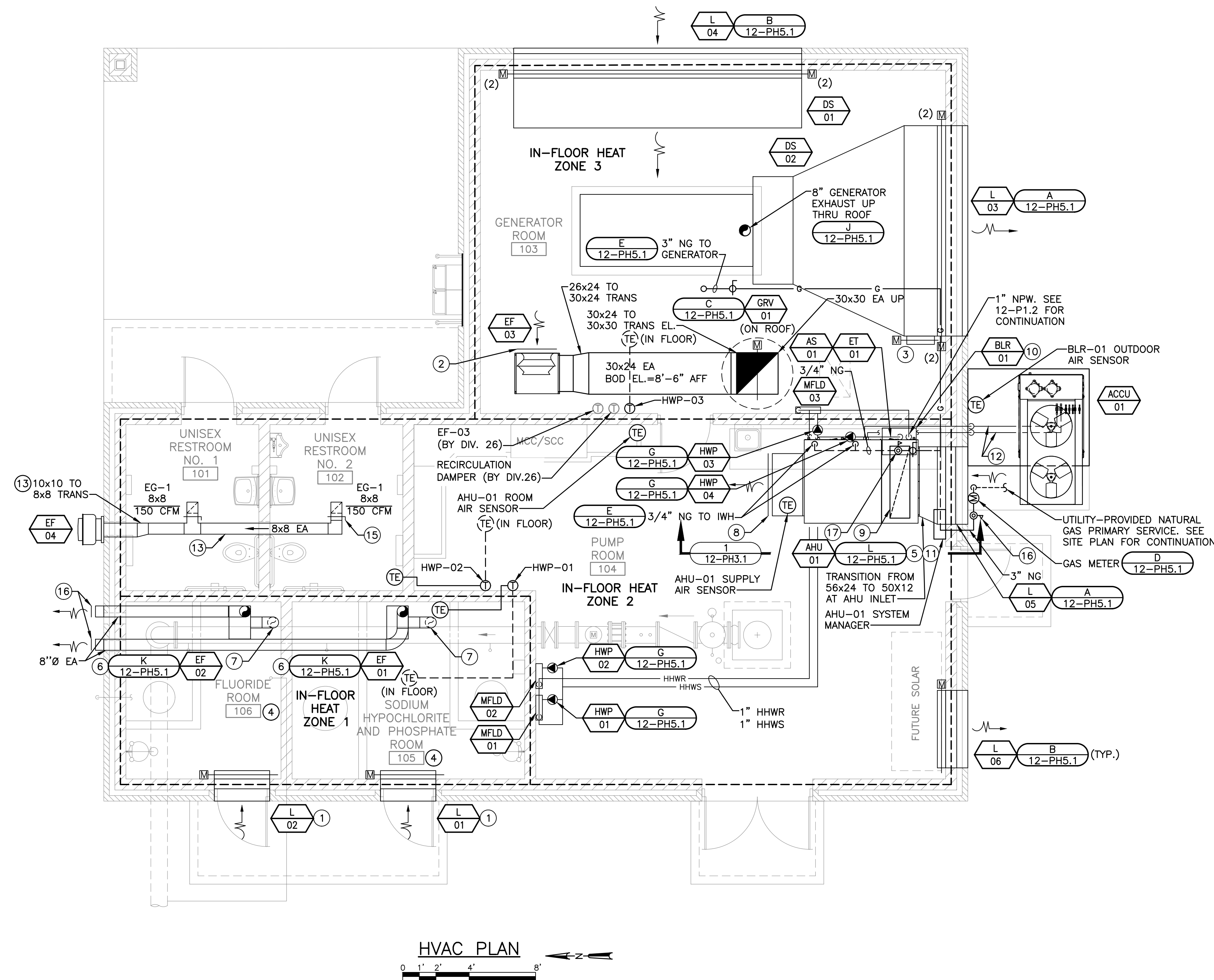
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REVISIONS									
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WELL NO. 12 PLUMBING SCHEDULES
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
30
12-P6.1



GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
4. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUCTWORK AND PIPING OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
6. COORDINATE AND PROVIDE ALL DUCTWORK TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCTWORK AND PIPING DIMENSIONS PRIOR TO FABRICATION.
7. DUCT AND EQUIPMENT PENETRATIONS SHALL BE COORDINATED AS TO NOT INTERFERE WITH ROOF STRUCTURE. ALL PENETRATIONS SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR.
8. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.

KEY NOTES:

- ① LOUVER SHALL BE INTEGRAL TO DOOR FRAME.
- ② MOUNT EXHAUST FAN SUCH THAT INLET IS ON SIDE. BOTTOM OF UNIT SHALL BE 8'-0" AFF. PROVIDE SCREEN AT INLET.
- ③ MOUNT 20x40 DA TO GENERATOR EXHAUST DUCTING FOR RECIRCULATION.
- ④ EQUIPMENT, DUCTWORK, AND ACCESSORIES IN THIS ROOM SHALL BE SUITABLE FOR NEMA 4X (CORROSIVE) ENVIRONMENTS.
- ⑤ CEILING-MOUNT UNIT 10" BELOW CEILING.
- ⑥ ROUTE 8"Ø DUCT FROM FAN OUTLET UP TO CEILING AND OUT NORTH SIDE OF BUILDING. OUTSIDE OF BUILDING, PROVIDE PLASTEC BIRDSCREENS.
- ⑦ ROUTE 5"Ø EA DN TO 12" AFF AND PROVIDE SCREEN AT INLET.
- ⑧ PROVIDE SCREEN AT DUCT OUTLET.
- ⑨ PROVIDE SCREEN AT UNIT RETURN INLET.
- ⑩ PROVIDE SAFETY RELIEF VALVE (SET AT 21 PSIG) AT BOILER. ROUTE DISCHARGE TO HUB DRAIN.
- ⑪ ROUTE CONDENSATE FROM AHU DN TO HUB DRAIN.
- ⑫ ROUTE RL AND RS BETWEEN AHU AND ACCU.
- ⑬ ROUTE ALL DUCTWORK SERVING BATHROOMS IN ATTIC SPACE.
- ⑭ BALANCE TO 100 CFM.
- ⑮ BALANCE TO 150 CFM.
- ⑯ PROVIDE REGULATOR AND ADJUST TO 14" WC OUTLET PRESSURE.
- ⑰ BEFORE INSTANTANEOUS WATER HEATERS, PROVIDE REGULATOR AND ADJUST TO 7" WC OUTLET PRESSURE.

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2020

WELL NO. 12 HVAC PLAN
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
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12-H1.1

AIR HANDLING UNIT SCHEDULE																							
UNIT NO. AHU-	LOCATION	SERVICE	AAON MODEL NO.	FAN SECTIONS				FILTER TYPE	COOLING COIL SECTION				ELECTRICAL						OPERATING WEIGHT (LBS.)	REMARKS			
				SUPPLY AIR (CFM)	EXT. STATIC (IN. OF W.C.)	MOTOR SIZE (HP)	FAN TYPE		SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	VOLTAGE	PHASE	FLA	MCA	STARTER TYPE	STARTER BY			DISCONNECT BY		
01	PUMP ROOM	PUMP ROOM/ MCC	H3	3,350	0.75	3	DIRECT	2" MERV	82.8	116.9	80/67	57.7/55.9	460	3	4	4	VFD	MFR.	DIV. 26	850			

AIR COOLED CONDENSING UNIT SCHEDULE																			
UNIT NO. ACCU-	LOCATION	SERVICE	AAON MODEL NO.	NOMINAL CAPACITY (TONS)	COMPRESSORS		REFRIGERANT			ELECTRICAL						OPERATING WEIGHT (LBS.)	REMARKS		
					NO. OF COMPRESSORS	COMPRESSOR TYPE	NO. OF CIRCUITS	REFRIGERANT	SUCTION LINE SIZE (IN.)	LIQUID LINE SIZE (IN.)	VOLTAGE	PHASE	FLA	MCA	BREAKER SIZE			DISCONNECT BY	
01	GRADE	PUMP ROOM/ MCC	CFA	11	2	DIGITAL SCROLL	2	R-454B	0.88	0.5	460	3	18	20	25	MFR.	1078		

PUMP SCHEDULE																	
UNIT NO.	LOCATION	SERVICE	TYPE	BELL & GOSSETT MODEL NO.	FLOWRATE (GPM)	TOTAL HEAD (FT. OF WATER)	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	SUCTION SIZE (IN.)	DISCHARGE SIZE (IN.)	TRIPLE DUTY VALVE	ELECTRICAL				REMARKS	
												VOLTS	PHASE	STARTER BY	STARTER TYPE		DISCONNECT BY
HWP-01	PUMP ROOM	MANIFOLD #1	HHW	NBF-25	1.61	17.5	1/15	2,950	1	1	YES	115	1	DIV. 26	FVNR	DIV. 26	
HWP-02	PUMP ROOM	MANIFOLD #2	HHW	NBF-9U/LW	2.43	7.5	1/40	2,800	3/4	3/4	YES	115	1	DIV. 26	FVNR	DIV. 26	
HWP-03	GENERATOR ROOM	MANIFOLD #3	HHW	NBF-9U/LW	1.44	8.0	1/40	2,800	3/4	3/4	YES	115	1	DIV. 26	FVNR	DIV. 26	
HWP-04	PUMP ROOM	BOILER LOOP	HHW	NBF-36	5.3	24.0	1/6	3,300	1	1	YES	115	1	DIV. 26	FVNR	DIV. 26	

RADIANT FLOOR HEATING SCHEDULE													
ZONE NO.	SERVICE	MANIFOLD NO.	UPONOR MANIFOLD NO.	AREA (SF)	NO. OF LOOPS	HEADER SIZE	TUBE SIZE	FLOW PER LOOP (GPM)	GLYCOL		EWT (°F)	LWT (°F)	REMARKS
									TOTAL FLOW (GPM)	P.D. (FT. HD.)			
1	FLUORIDE ROOM AND SODIUM HYPOCHLORITE AND PHOSPHATE ROOM	MFLD-01	TRUFLOW	260	1	1"	5/8"	1.61	1.61	13.4	153	133	
2	RESTROOMS AND PUMP ROOM	MFLD-02	TRUFLOW	775	3	1"	5/8"	0.97/0.73	2.43	4.3	153	133	①
3	GENERATOR ROOM	MFLD-03	TRUFLOW	580	2	1"	5/8"	0.72	1.44	3.3	153	133	

① LOOP SERVING RESTROOMS SHALL HAVE FULL 0.97 GPM FLOW. LOOPS SERVING PUMP ROOM SHALL ONLY REQUIRE 0.73 GPM EACH.

DUCT SILENCER SCHEDULE												
UNIT NO. DS-	LOCATION	SERVICE	MANUFACTURER	MODEL NO.	DUCT WIDTH @ INLET (IN.)	DUCT WIDTH @ OUTLET (IN.)	DUCT HEIGHT @ INLET (IN.)	DUCT HEIGHT @ OUTLET (IN.)	LENGTH (IN.)	VELOCITY (FPM)	APD (IN WG)	REMARKS
01	GENERATOR ROOM	GENERATOR	VIBRO-ACOUSTICS	RD-ULV-32580	208	208	96	96	36	464	0.06	①
02	GENERATOR ROOM	GENERATOR	VIBRO-ACOUSTICS	RD-LV-32580	82	152	98	96	72	557	0.25	①

① SILENCER SHALL BE SELECTED TO MEET 65 DBA AT PROPERTY LINE 80 FEET AWAY.

AIR SEPARATOR SCHEDULE							
UNIT NO. AS-	LOCATION	SERVICE	BELL & GOSSETT MODEL NO.	WATER FLOW (GPM)	CONNECTION SIZE (IN.)	STRAINER	REMARKS
01	PUMP ROOM	HHW	IAS-1	4.35	1	YES	

EXPANSION TANK SCHEDULE					
UNIT NO. ET-	LOCATION	SERVICE	BELL AND GOSSETT MODEL NO.	TANK VOLUME (GAL.)	REMARKS
01	PUMP ROOM	HHW	HFT-30	4.4	
02	PUMP ROOM	HW	HW	1	

DATE:									
REVISIONS									
NO.									

WELL NO. 12 HVAC - SCHEDULES - 2
 WELL NO. 12 WELL FACILITY
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



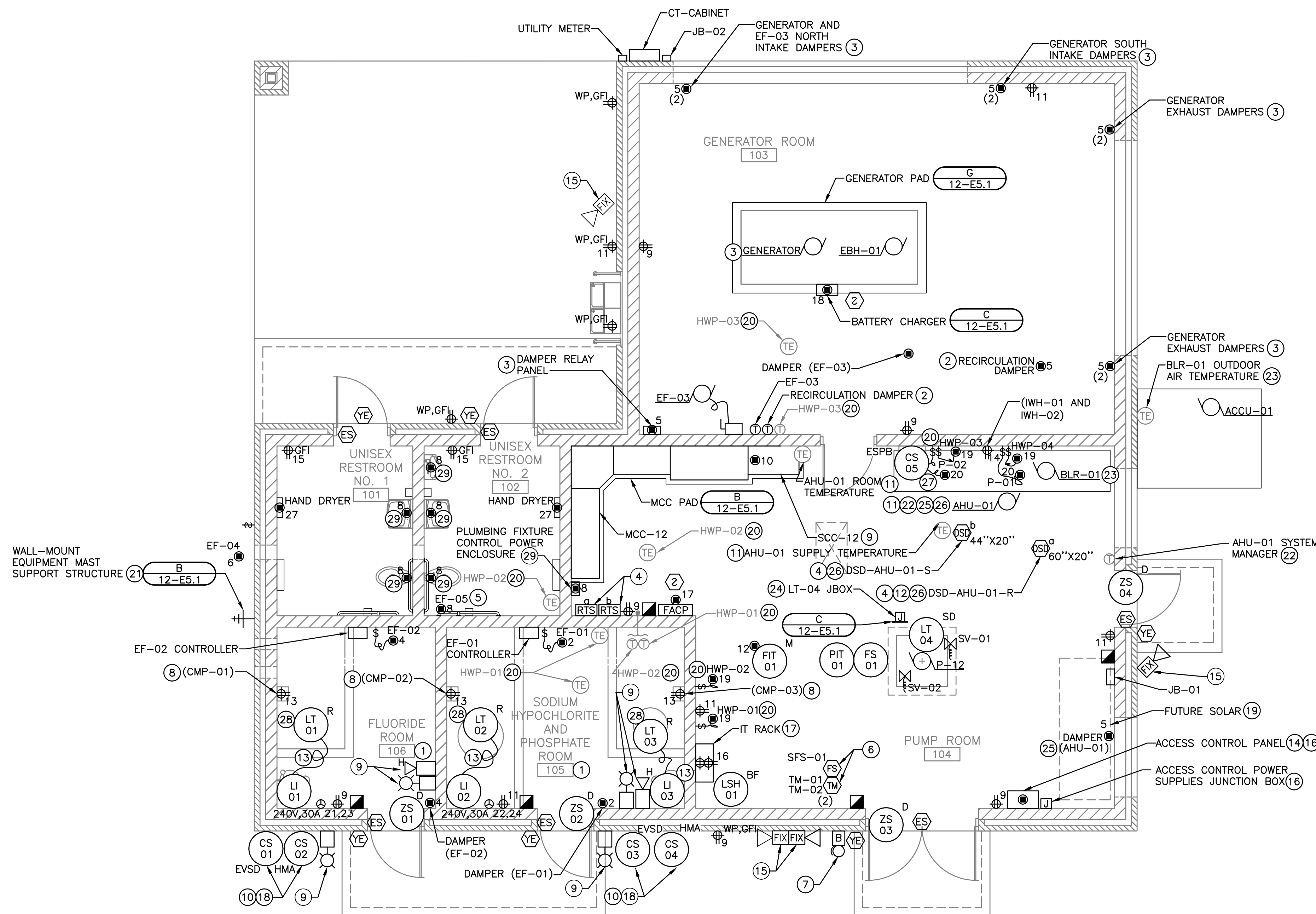
SHEET
34
12-H6.2

GENERAL NOTES:

- REFER TO DRAWING 12-AS1.1 FOR LOCATIONS OF FIRE-RATED WALLS.
- REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
- DAMPERS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
- THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.
- REFER TO DRAWING 12-E6.1 FOR SPARE CONDUIT SCHEDULE ASSOCIATED WITH THE FUTURE SOLAR PV ARRAY.

KEY NOTES:

- ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC OR FRP.
- DAMPER SHALL BE CONTROLLED SUCH THAT WHEN THE ROOM TEMPERATURE IS BELOW THE THERMOSTAT SETPOINT, THE RECIRCULATION DAMPER SHALL OPEN. THE DAMPER SHALL CLOSE WHEN THE ROOM TEMPERATURE IS ABOVE THE THERMOSTAT SETPOINT. THIS CONTROL SHALL ONLY BE OPERATIONAL WHEN THE GENERATORS IS RUNNING.
- PROVIDE 2~#14 IN 3/4" CONDUIT FROM GENERATOR CONTROL PANEL TO DAMPER RELAY PANEL FOR GENERATOR RUNNING SIGNAL. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR CONTROL OF THE GENERATOR EXHAUST DAMPERS.
- DUCT SMOKE DETECTOR SHALL BE INSTALLED ON VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN PUMP ROOM 104.
- FAN SHALL BE CONTROLLED BY THE ASSOCIATED ROOM OCCUPANCY SENSOR SUCH THAT THE FAN RUNS WHENEVER THE RESTROOM IS OCCUPIED. SEE DRAWING 12-E1.2 FOR LOCATION OF ROOM OCCUPANCY SENSORS.
- FIRE SUPPRESSION SYSTEM FLOW SWITCH AND TAMPER SWITCHES PROVIDED BY DIVISION 21 AND WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAY TO MONITOR EACH DEVICE AT THE FACP.
- FIRE SUPPRESSION SYSTEM ALARM BELL FURNISHED BY DIVISION 21 AND INSTALLED AND WIRED BY DIVISION 28. ALARM BELL SHALL BE POWERED FROM THE FACP.
- CHEMICAL FEED PUMP RECEPTACLE SHALL BE HALF-HOT AND HALF-INTERLOCKED WITH THE WELL PUMP RUN SIGNAL IN THE WELL PUMP VFD ENCLOSURE AS SPECIFIED IN SECTION 26 09 00.
- PROVIDE 2~#12 IN 3/4" CONDUIT FROM EACH HAZARDOUS MATERIAL EMERGENCY HORN AND STROBE TO SCC-12.
- THE HAZARDOUS MATERIAL ALARM PUSHBUTTONS AND VENTILATION SYSTEM EMERGENCY SHUTOFF PUSHBUTTONS SHALL BE WIRED TO THE FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE AT THE FACP.
- PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO AIR HANDLING UNIT CONTROL PANEL FOR DIVISION 23-PROVIDED TEMPERATURE ELEMENT AND LOW-VOLTAGE WIRING.
- RETURN AIR DUCT SMOKE DETECTOR (DSD-AHU-01-R) SHALL BE INSTALLED ON AHU-01 MIXING BOX.
- PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT FROM LEVEL TRANSMITTER DISPLAY TO LEVEL TRANSMITTER.
- CARD READER, DOOR SWITCH, AND ACCESS CONTROL PANEL INSTALLED AND WIRED BY DIVISION 28 IN DIVISION 26 PROVIDED CONDUIT. PROVIDE DEVICE BOXES AND 3/4" CONDUIT BETWEEN DEVICES AND ACCESS CONTROL PANEL AS NEEDED.
- PROVIDE OUTLET BOX 9"-0" AFF AND 3/4" CONDUIT FROM OUTLET BOX TO NETWORK CABINET FOR FUTURE CAMERA. CAMERA AND ASSOCIATED WIRING TO BE PROVIDED BY OWNER.
- PROVIDE JUNCTION BOX WITH TERMINAL BLOCKS FOR TERMINATION OF INCOMING WIRE. PROVIDE 4~#14 IN 3/4" CONDUIT FROM SCC-12 TO ACCESS CONTROL POWER SUPPLIES JUNCTION BOX FOR 16.5VAC CONTROL POWER TO ACCESS CONTROL PANEL. PROVIDE 2~#14 IN 3/4" CONDUIT FROM SCC-12 TO ACCESS CONTROL POWER SUPPLIES JUNCTION BOX FOR 24VDC POWER TO ACCESS CONTROL PANEL FOR POWER TO THE ELECTRIC STRIKE.
- PROVIDE 6U RACK ENCLOSURE AS MANUFACTURED BY TRIPP LITE, MODEL SRW6U, OR EQUAL, FOR MOUNTING OF FITCHBURG IT DEPARTMENT FURNISHED MODEM AND FIREWALL. PROVIDE BACK-UPS CS 500, OR EQUAL, FOR BACKUP POWER FOR MODEM AND FIREWALL. INSTALL RECEPTACLE BEHIND BACK ENCLOSURE.
- FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER.
- AREA SHALL BE RESERVED FOR FUTURE EQUIPMENT. DO NOT ROUTE ELECTRICAL CONDUITS THROUGH FUTURE EQUIPMENT LOCATION. CONDUITS SHALL BE ROUTED FAR ENOUGH AWAY FROM FUTURE EQUIPMENT TO ALLOW FOR FUTURE INSTALLATION.
- PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO ASSOCIATED HOT WATER PUMP FOR DIVISION 23-PROVIDED THERMOSTAT AND LOW-VOLTAGE WIRING. PROVIDE 3/4" CONDUIT FROM OUTLET BOX TO ASSOCIATED TEMPERATURE ELEMENT FOR DIVISION 23-PROVIDED LOW-VOLTAGE WIRING.
- MOUNT ANTENNA ON MOUNTING MAST 12'-0" AFG.



ELECTRICAL FLOOR PLAN



KEY NOTES:

- PROVIDE 3/4" CONDUIT FROM AHU-01 CONTROLLER TO DAMPER FOR DIVISION 23-PROVIDED DAMPER ACTUATOR AND LOW-VOLTAGE WIRING.
- PROVIDE 2~#14 IN 3/4" CONDUIT FROM EACH DUCT SMOKE DETECTOR TO AHU CONTROL PANEL FOR DUCT SMOKE SHUTDOWN OF UNIT.
- WALL-MOUNT GENERATOR REMOTE E-STOP PUSHBUTTON. PROVIDE 2~#14 IN 3/4" CONDUIT FROM GENERATOR CONTROL PANEL TO REMOTE E-STOP PUSHBUTTON. PUSHBUTTON FURNISHED AS SPECIFIED IN SECTION 26 32 13.
- LEVEL TRANSMITTER SHALL BE INSTALLED ABOVE TANK AND MEASURE LEVEL THROUGH TOP OF TANK.
- PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM CONTROL POWER ENCLOSURE TO EACH HARDWIRED PLUMBING FIXTURE.

KEY NOTES:

- PROVIDE 3/4" CONDUIT FROM AHU-01 TO SYSTEM MANAGER AND FROM ACCU-01 TO SYSTEM MANAGER FOR DIVISION 23-PROVIDED LOW-VOLTAGE WIRING. SYSTEM MANAGER PROVIDED BY DIVISION 23. PROVIDE 2~#14 FROM SCC-12 TO SYSTEM MANAGER FOR 24VDC POWER.
- PROVIDE OUTLET BOX AND 3/4" CONDUIT FROM BOX TO BLR-01 FOR DIVISION 23-PROVIDED OUTDOOR AIR TEMPERATURE SENSOR AND LOW-VOLTAGE WIRING.
- PROVIDE REMOVABLE UNISTRUT MOUNTING STAND AND NEMA 12 JUNCTION BOX FOR TERMINATION OF LEVEL TRANSMITTER CABLE. PROVIDE MANUFACTURER-FURNISHED CABLE IN 3/4" CONDUIT FROM LEVEL TRANSMITTER TO JUNCTION BOX. JUNCTION BOX SHALL BE FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER.

WELL NO. 12 ELECTRICAL - PLAN

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE
1	OWNER REVIEW	1/1/2025

JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



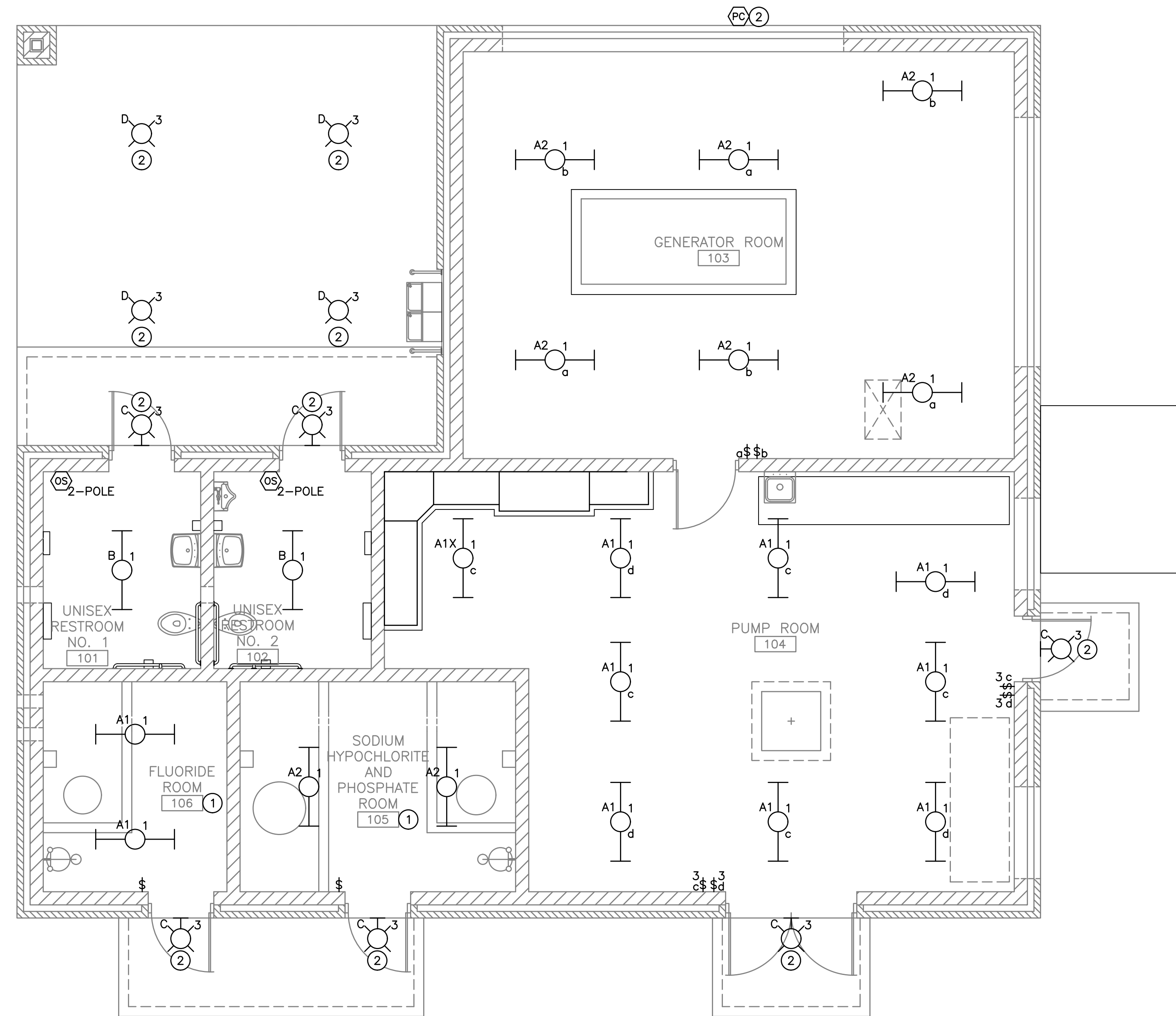
SHEET
36
12-E1.1

GENERAL NOTES:

1. REFER TO DRAWING 12-AS1.1 FOR LOCATIONS OF FIRE-RATE WALLS.

KEY NOTES:

- ① ALL ELECTRICAL WORK AND EQUIPMENT IN THIS AREA SHALL BE RATED NEMA 4X, PVC OR FRP.
- ② EXTERIOR LIGHTING CIRCUIT SHALL BE WIRED THROUGH PHOTOCELL.



NO.	REVISIONS	DATE:
1	OWNER REVIEW	1/1/2025

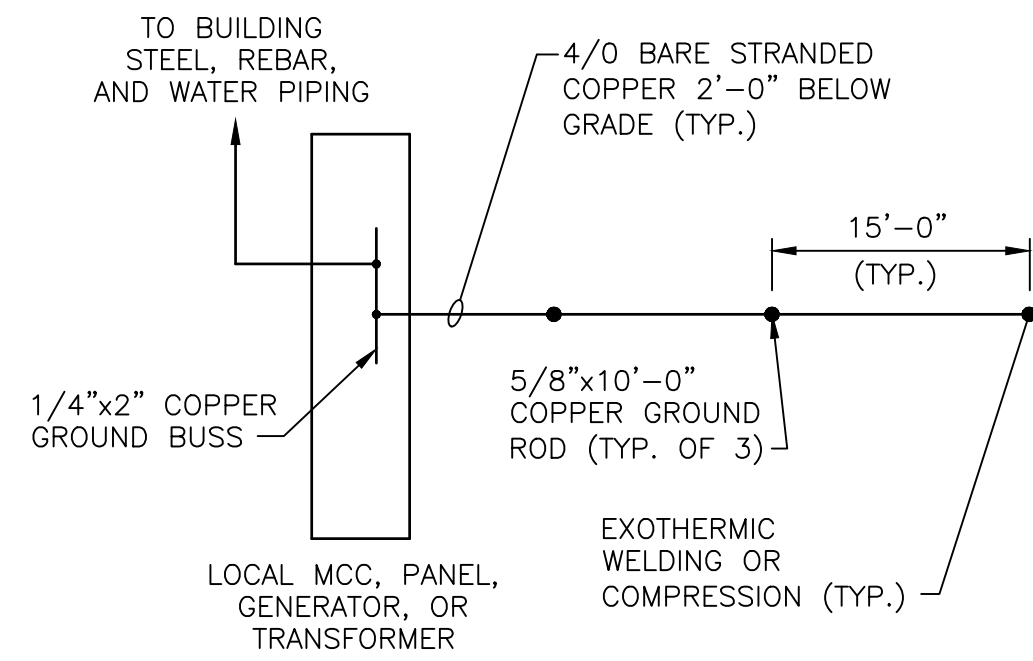
WELL NO. 12 ELECTRICAL - LIGHTING PLAN

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

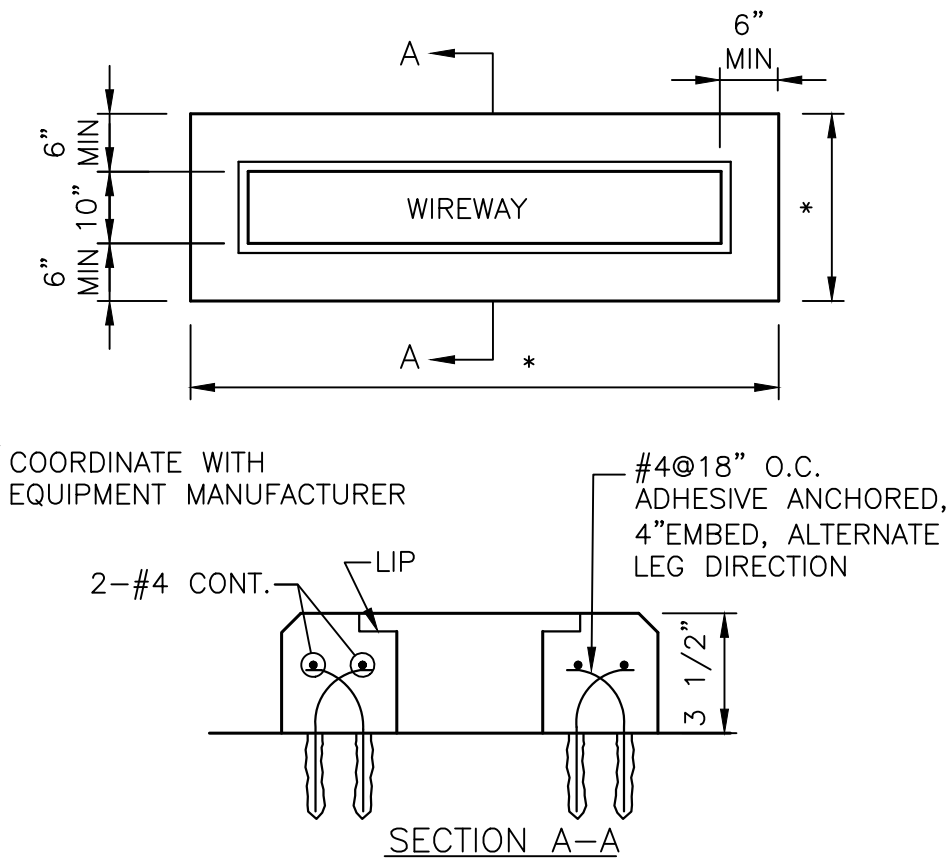
JOB NO.
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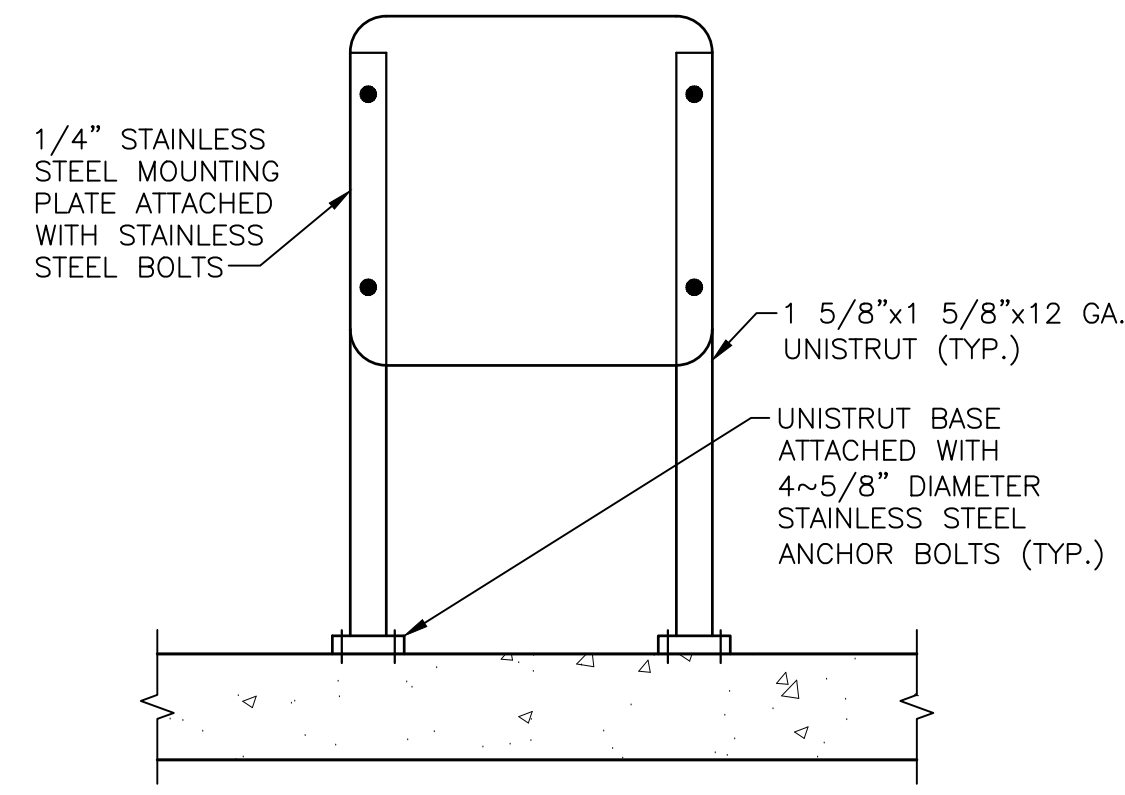
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12-E1.2



A GROUND GRID
12-E5.1 NO SCALE

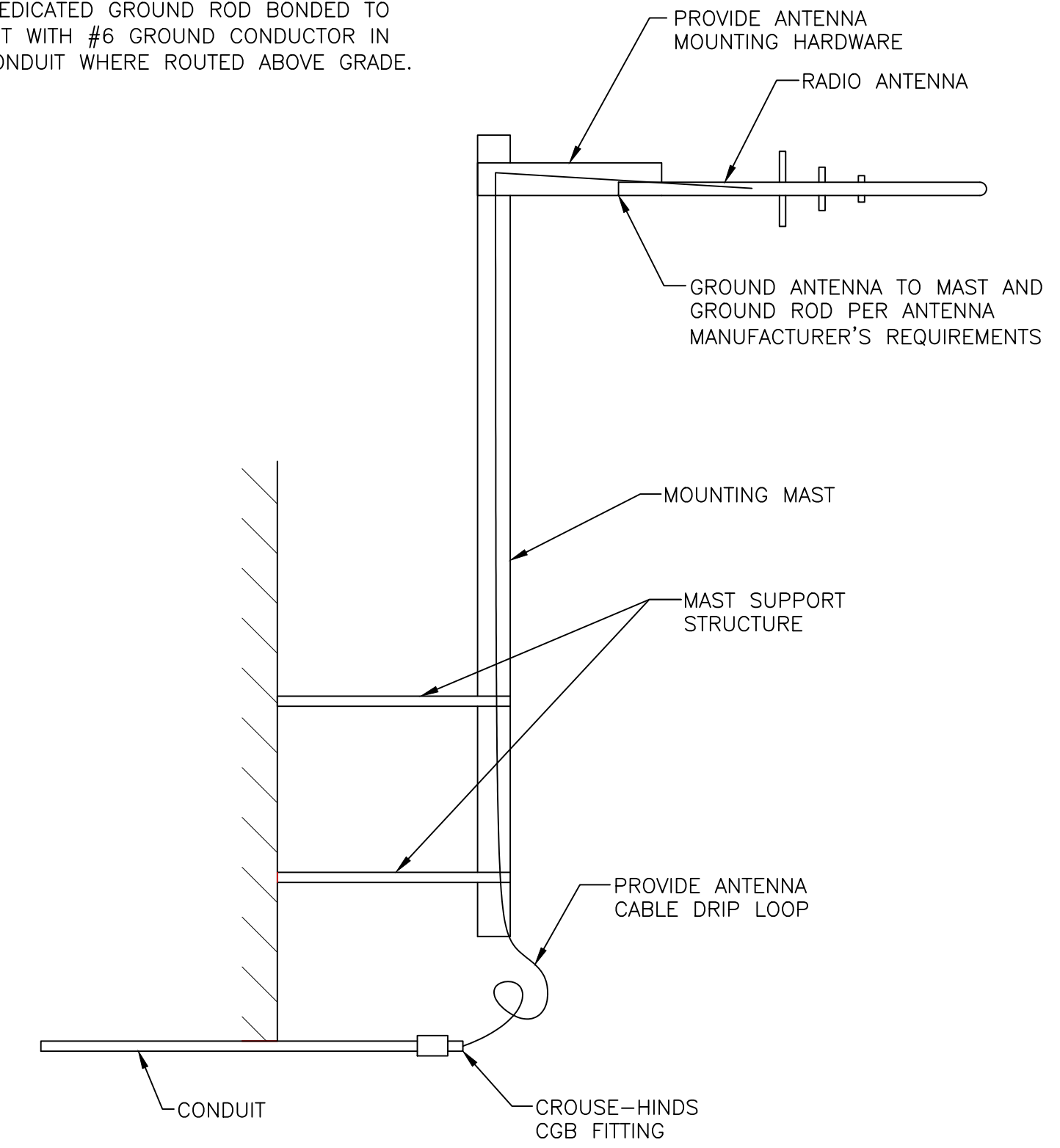


B SCC/MCC PAD
12-E5.1 NO SCALE

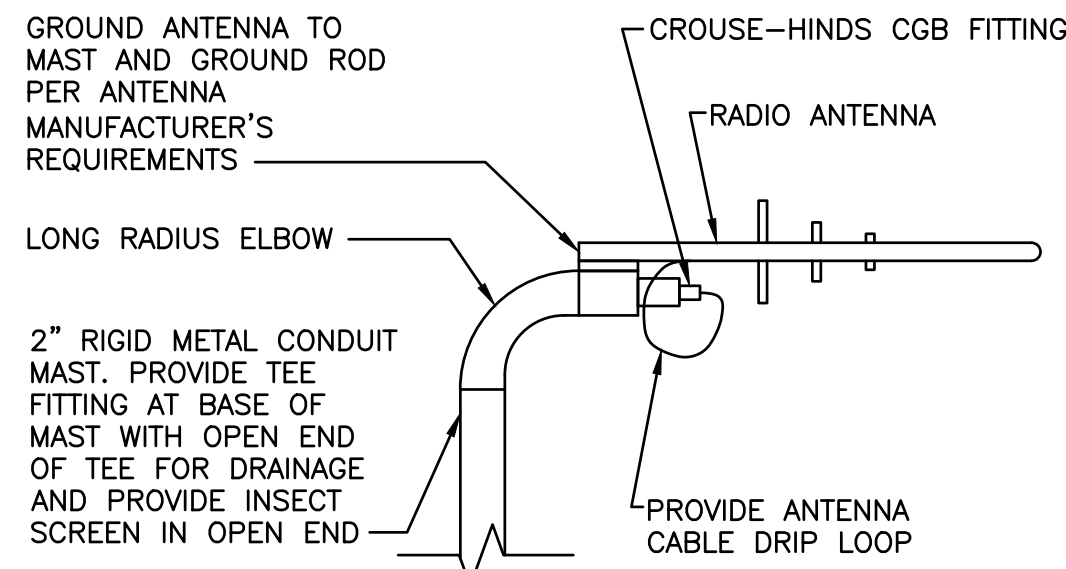


C EQUIPMENT MOUNTING STAND
12-E5.1 NO SCALE

- NOTES:
1. VERIFY LOCATION OF ANTENNA AND MOUNTING REQUIREMENTS AT EACH SITE.
 2. PROVIDE A DEDICATED GROUND ROD BONDED TO CONDUIT MAST WITH #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT WHERE ROUTED ABOVE GRADE.

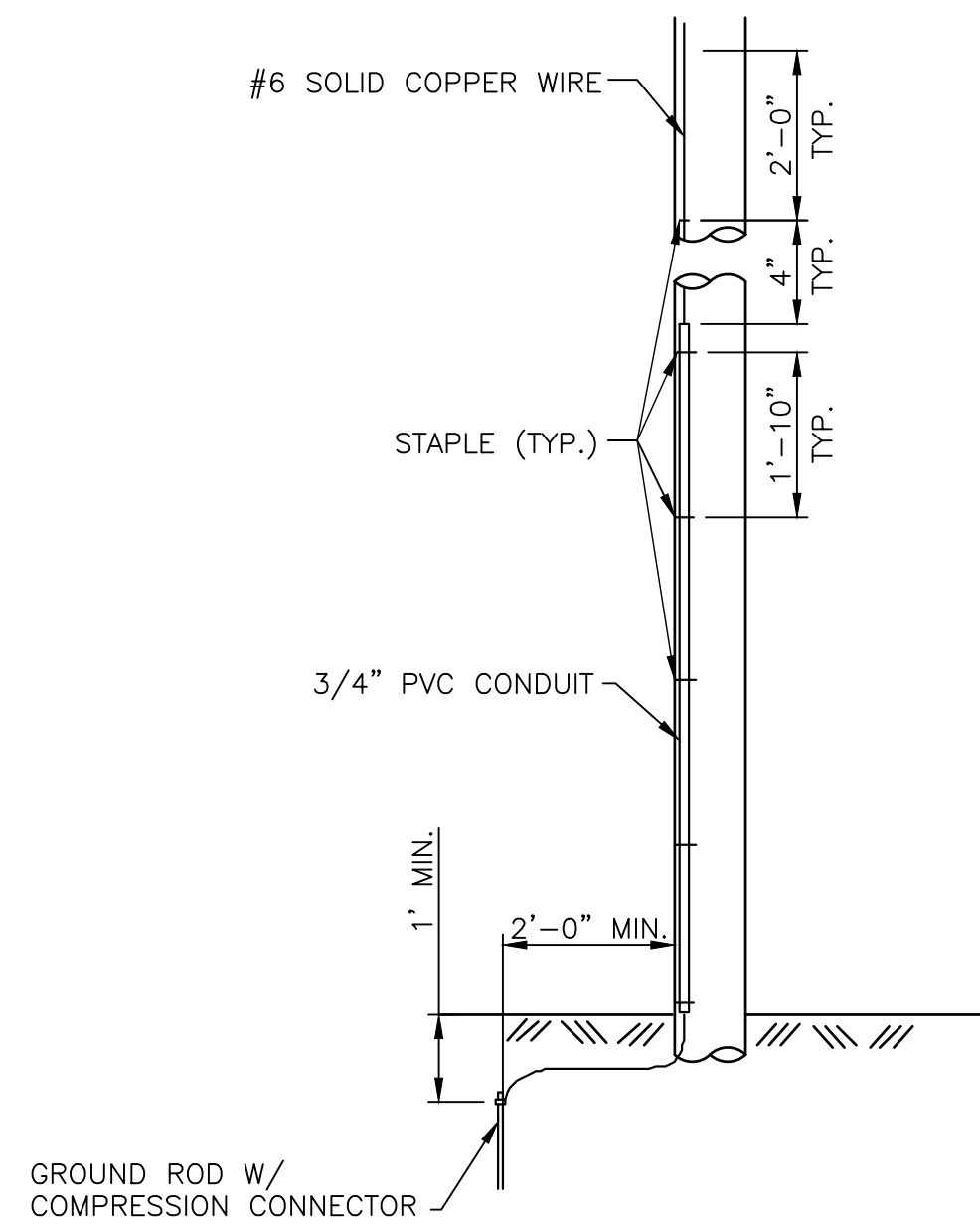


D WALL-MOUNTED ANTENNA MAST
12-E5.1 NO SCALE

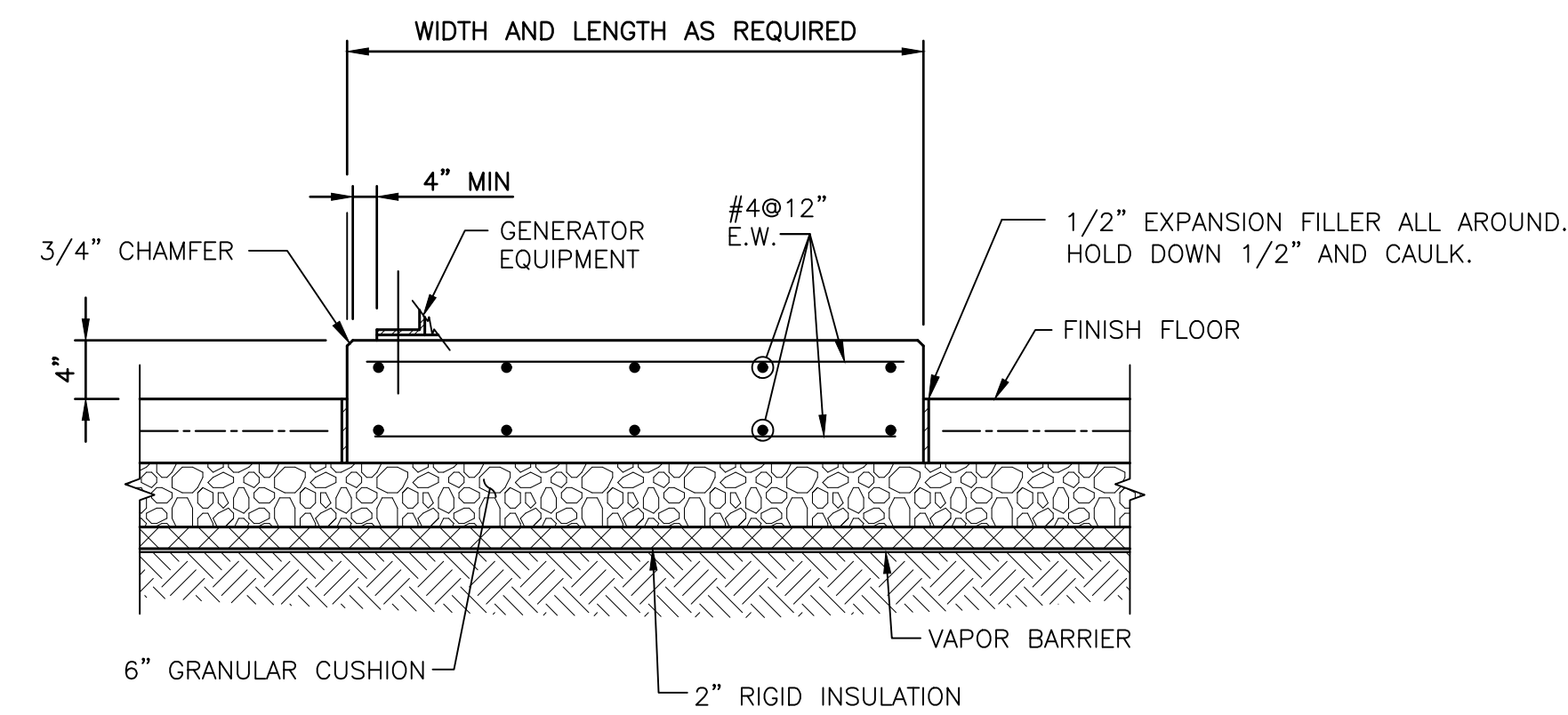


- NOTES:
1. VERIFY LOCATION OF ANTENNA AND MOUNTING REQUIREMENTS AT EACH SITE.
 2. PROVIDE A DEDICATED GROUND ROD BONDED TO CONDUIT MAST WITH #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT WHERE ROUTED ABOVE GRADE.

E ANTENNA TERMINATION
12-E5.1 NO SCALE



F ANTENNA POLE GROUNDING
12-E5.1 NO SCALE



G GENERATOR PAD
12-E5.1 NO SCALE

NO.	REVISIONS	DATE:

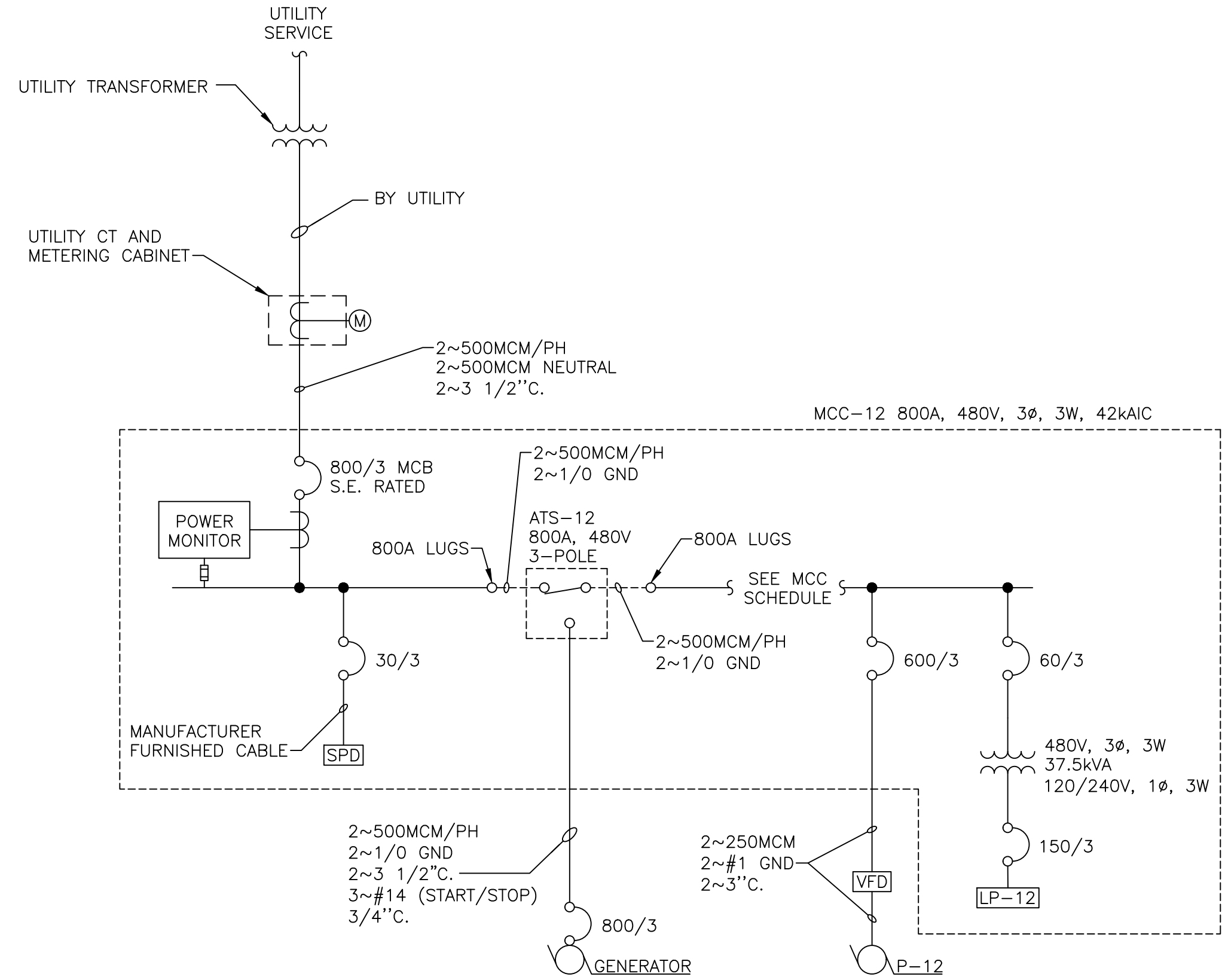
WELL NO. 12 ELECTRICAL - DETAILS

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

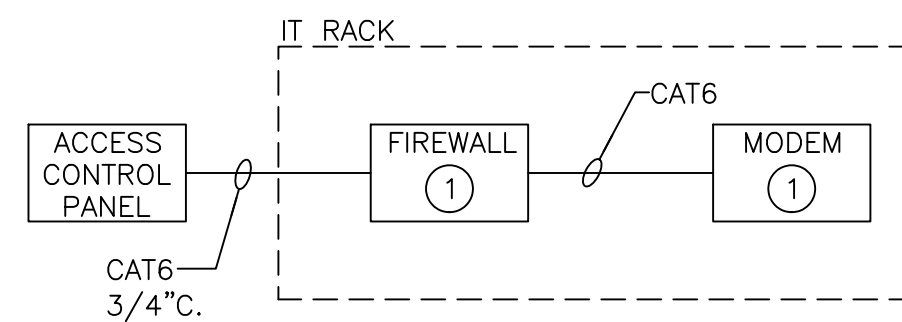
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1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
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12-E5.1



ONE-LINE DIAGRAM
NO SCALE



ACCESS CONTROL DIAGRAM
NO SCALE

FIXTURE SCHEDULE

Fixture Type	Manufacturer(s)	Model Number	Mounting	Remarks
A1	METALUX	4VT2-LD5-4-DR-UNV-L840-CD1-WL-U	SURFACE	
A2	METALUX	4VT2-LD5-6-DR-UNV-L840-CD1-WL-U	SURFACE	
B	FAIL-SAFE	4VRVT2-LD5-4-DR-UNV-L840-CD1-WL-U	SURFACE	
C	CREE	SEC-EDG-3M-WM-04-E-UL-BK-350-40K	SURFACE	
D	SWOOP	SWP1212-25W-40K-MVOLT-CLP-BLK	SURFACE	

LIGHTING PANEL LP-12

Service:		120/208V, 3Ø, 4W	Enclosure:		NEMA 1G	Mounting:		In MCC-12							
Main Breaker:		100A	Main Bus:		Copper	SCIC:		10 kAIC							
Location:		Well No. 12													
Room Number/Description	Amps	Poles	Ckt. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Ckt. #	Poles	Amps	Room Number/Description		
INTERIOR LIGHTING	20	1	1	900			920			2	1	20	EF-01 AND DAMPER		
EXTERIOR LIGHTING	20	1	3		220				920	4	1	20	EF-02 AND DAMPER		
GENERATOR ROOM DAMPERS	20	1	5			450				6	1	30	EF-04		
EWC RECEPTACLE	20	1	7	180			145			8	1	20	EF-05		
RECEPTACLES	20	1	9		900				1000	10	1	20	SCC-12		
RECEPTACLES	20	1	11			900				12	1	20	FIT-01		
CMP-01, CMP-02, CMP-03	20	1	13	540			1025			14	1	20	IWH-01 AND IWH-02		
RESTROOM RECEPTACLES	20	1	15		360			360		16	1	20	IT RACK		
FACP	20*	1	17			500			1335	18	1	20	GENERATOR BATTERY CHARGER		
INFLOOR HEATING HWP-01	20	1	19	45			55			20	1	20	INFLOOR HEATING HWP-02		
INFLOOR HEATING HWP-03	20	1	21		45			95		22	1	20	INFLOOR HEATING HWP-04		
HOT WATER RECIRCULATION PUMP (P-01)	20	1	23			45			45	24	1	20	TEPID WATER PUMP (P-02)		
RESTROOM NO. 1 HAND DRYER	20	1	25	1725			--			26	1	20	RESTROOM AUTO FIXTURES		
RESTROOM NO. 2 HAND DRYER	20	1	27		1725		--			28	1	20	SPARE		
SPARE	20	1	29			--			--	30	1	20	SPARE		
Total Load per Phase per Side (VA)				3390	3250	1895	2145	2375	2275						
Total Load Phase A (VA)				5535	VA	*CIRCUIT BREAKER SHALL BE RED IN COLOR AND PERMANENTLY LABELED FACP.				Total Connected Load				43	A
Total Load Phase B (VA)				5625	VA					Total Connected Load + 25%				53	A
Total Load Phase C (VA)				4170	VA					Spare 25%				13	A
Total Connected Load (VA)				15330	VA					Feeder Load				66	A

SOLAR PV ARRAY SPARE CONDUIT SCHEDULE			
ORIGIN	TERMINATION	QUANTITY	CONDUIT SIZE
MCC-12	JB-02	1	3/4"
JB-02	JB-01	1	3/4"
JB-01	EXTERIOR	1	1"
JB-01	EXTERIOR	1	3/4"
JB-01	SCC-12	1	3/4"

KEY NOTES:

- ① EQUIPMENT TO BE FURNISHED BY CITY OF FITCHBURG IT DEPARTMENT.

WELL NO. 12 ELECTRICAL - ONE-LINE DIAGRAM AND SCHEDULES

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

PROJECT MGR.
STEVE KLUESNER

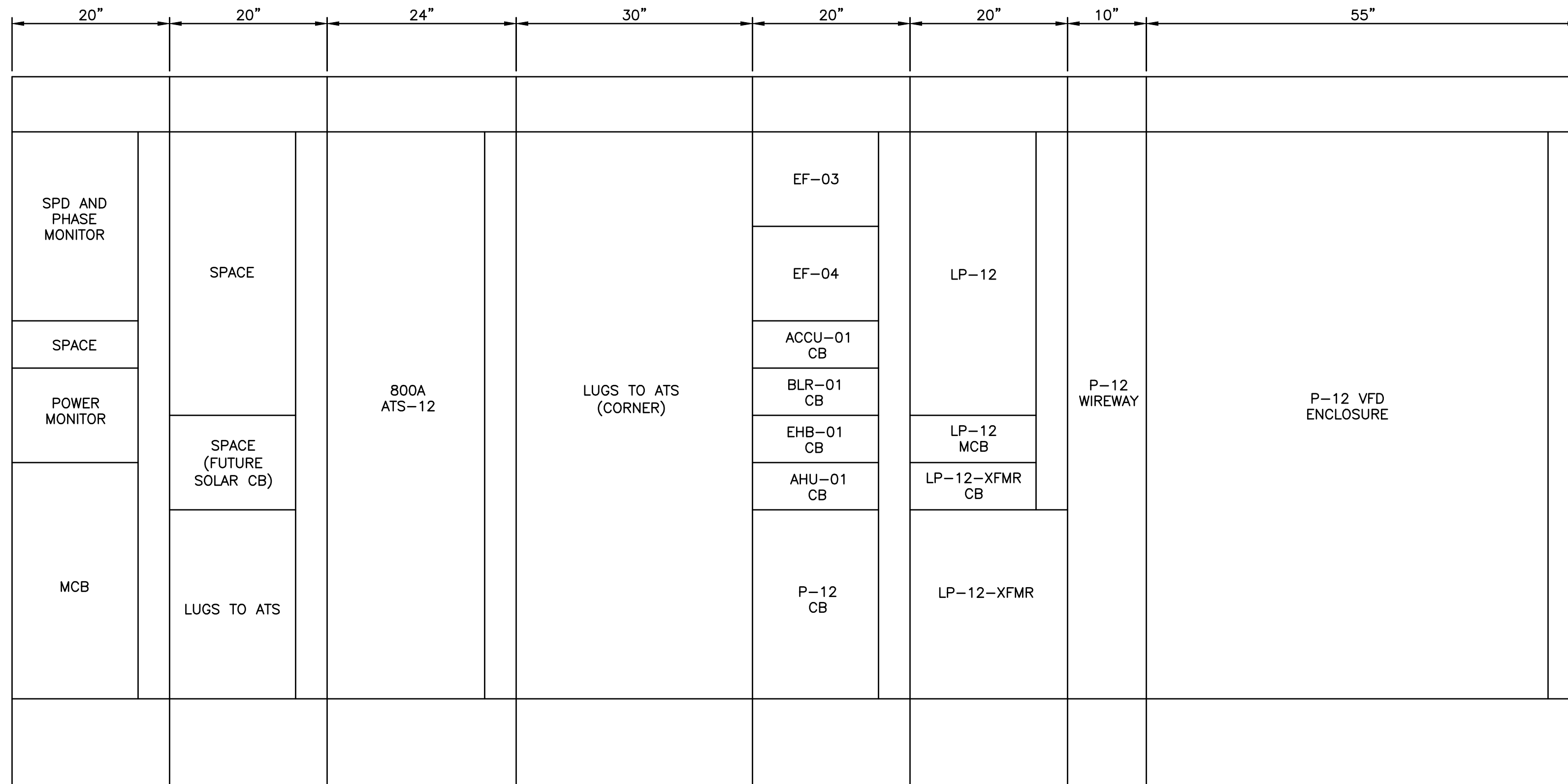


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12-E6.1

MOTOR AND MOTOR CONTROL CENTER SCHEDULE MCC-12

EQUIPMENT AND NAMEPLATE TITLES			EQUIPMENT LOCATION	PANEL/MCC	MOTOR INFORMATION			MOTOR STARTER INFORMATION				CONTROL & INTERLOCKS		REMARKS***	
EQUIPMENT NUMBER	FIRST LINE SECOND LINE WHEN EQUIPMENT NUMBER IS INDICATED	SECOND LINE THIRD LINE WHEN EQUIPMENT NUMBER IS INDICATED			HP (OR KW)	VOLTS	F.L.A.	SIZE	TYPE	DISCONNECT	CONTROL DEVICES	DESCRIPTION	CONDUIT AND WIRE** 1ST ROW(S)=CONTROL* LAST ROW=POWER		
P-12	WELL PUMP	NO. 12	PUMP ROOM	MCC-12	300	480	340	-	VFD (AFE)	TM	450	HOA,R,R,R,R,G,ETM,RST	LSH-01, FS-01, SV-01, SV-02, MOTOR T-STATS, CMP-01, CMP-02, CMP-03	10~#14, 3/4"C. 6~#12, 3/4"C. 2~#4/0/PH, 2~2"C.	SEE NOTE A R=VFD FAULT, R=MOTOR OVERTEMP, R=FLOR FAIL, R=BUILDING FLOODING
EF-03	GENERATOR ROOM	EXHAUST FAN	GENERATOR ROOM	MCC-12	5	480	7.1	-	-	M	20	HOA,R,G,ETM	(RUNNING, FAULT, START/STOP) TO/FROM ECM IN FAN, DISCONNECT, T-STAT, DAMPER, DAMPER RELAY PANEL	6~#14, 3/4"C. 8~#14, 3/4"C. 3~#12, 3/4"C.	SEE NOTE B
AHU-01	AIR HANDLING UNIT	NO. 1	PUMP ROOM	MCC-12	-	480	4	-	-	TM	15			3~#12, 3/4"C.	
ACCU-01	CONDENSING UNIT	NO. 1	EXTERIOR	MCC-12	-	480	18	-	-	TM	25			3~#10, 3/4"C.	
BLR-01	IN-FLOOR HEATING	BOILER NO. 1	PUMP ROOM	MCC-12	4kW	480	18.1	-	-	TM	30			3~#10, 3/4"C.	
EBH-01	GENERATOR ENGINE	BLOCK HEATER	GENERATOR ROOM	MCC-12	4	480	8.3	-	-	TM	15			3~#12, 3/4"C.	
EF-04	RESTROOM	RESTROOM EXHAUST FAN	RESTROOM SIDE WALL	MCC-12	0.10	120	1.5	-	-	TM	15	HOA,R,G,ETM	(RUNNING, FAULT, START/STOP) TO/FROM ECM IN FAN, OCCUPANCY SENSORS	6~#14, 3/4"C. 4~#14, 3/4"C. 2~#12, 3/4"C.	SEE NOTE C

DATE:									
REVISIONS									
NO.									



MCC-12 ELEVATION
NO SCALE

CONTROL DEVICES		SELECTOR SWITCHES AND AUXILIARY DEVICES		DISCONNECT TYPE	MOTOR STARTER TYPE				
PUSHBUTTONS	INDICATING LIGHTS	HOR	HAND-OFF-REMOTE	FR	FORW.-REV.	TM	THERMAL MAG BREAKER	FVNR	FULL VOLTAGE NON REVERSING
ST START	R RED (FAIL)	HLOA	HIGH-LOW-OFF-AUTO	OO	ON-OFF	M	MAG ONLY BREAKER	FVR	FULL VOLTAGE REVERSING
STP STOP	G GREEN (RUN FWD)	HOAL	HAND-OFF-AUTO-LOCAL	LR	LOCAL REMOTE	F	FUSED	TS2WR	TWO SPEED TWO WINDING REVERSING
ESPB EMERGENCY STOP	A AMBER (WARNING)	HOA	HAND-OFF-AUTO			NF	NON-FUSED	TS2W	TWO SPEED TWO WINDING
RST RESET	B BLUE (RUN REV)	FOR	FOR.-OFF-REV.					RVSS	REDUCED VOLTAGE SOLID STATE
LOS LOCKOUT STOP	W WHITE	ETM	ELAPSED TIME METER					VFD	VARIABLE FREQUENCY DRIVE
SIL SILENCE	C CLEAR							ND	NORMAL DUTY
								HD	HEAVY DUTY
								AFE	ACTIVE HARMONIC FRONT END

* IF APPLICABLE
** PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT SIZED PER THE NEC. PROVIDE A SEPARATE ISOLATED GROUND CONDUCTOR FOR BONDING RACEWAY SYSTEM WHERE SHIELDED VFD CABLE IS PROVIDED.
*** SEE SPECIFICATIONS SECTION 26 09 00-CONTROLS AND INSTRUMENTATION, PART 3 FOR NOTES REFERENCED

WELL NO. 12 ELECTRICAL - MCC-12 SCHEDULE AND ELEVATION

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

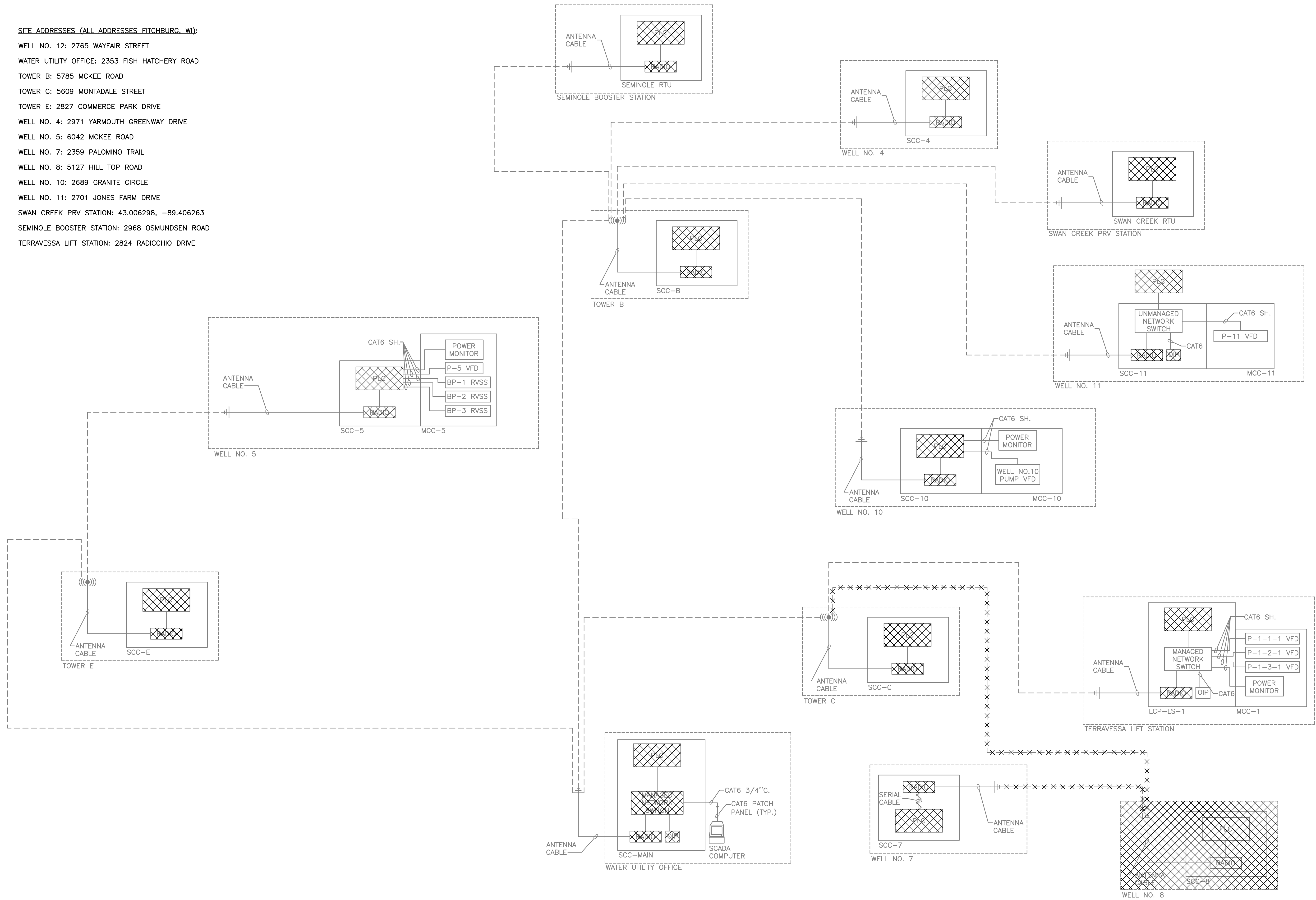
JOB NO.
1275.059
PROJECT MGR.
STEVE KLUESNER



SHEET
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12-E6.2

SITE ADDRESSES (ALL ADDRESSES FITCHBURG, WI):

- WELL NO. 12: 2765 WAYFAIR STREET
- WATER UTILITY OFFICE: 2353 FISH HATCHERY ROAD
- TOWER B: 5785 MCKEE ROAD
- TOWER C: 5609 MONTADALE STREET
- TOWER E: 2827 COMMERCE PARK DRIVE
- WELL NO. 4: 2971 YARMOUTH GREENWAY DRIVE
- WELL NO. 5: 6042 MCKEE ROAD
- WELL NO. 7: 2359 PALOMINO TRAIL
- WELL NO. 8: 5127 HILL TOP ROAD
- WELL NO. 10: 2689 GRANITE CIRCLE
- WELL NO. 11: 2701 JONES FARM DRIVE
- SWAN CREEK PRV STATION: 43.006298, -89.406263
- SEMINOLE BOOSTER STATION: 2968 OSMUNDSEN ROAD
- TERRAVESSA LIFT STATION: 2824 RADICCHIO DRIVE



DEMOLITION SCADA RISER DIAGRAM
NO SCALE

NO.	REVISIONS	DATE:

**WELL NO. 12 ELECTRICAL - DEMOLITION
SCADA RISER DIAGRAM**

WELL NO. 12 WELL FACILITY
CITY OF FITCHBURG
DANE COUNTY, WISCONSIN

JOB NO.
1275.059

PROJECT MGR.
STEVE KLUESNER





Conditional Use -

Owner or Authorized Agent Acknowledgement

** It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting a CUP application to identify any concerns or issues of surrounding residents.

PLEASE NOTE - Applicants shall be responsible for legal or outside consultant costs incurred by the City. Submissions shall be made at least four (4) weeks prior to desired plan commission meeting.

By signing below, I certify that the information included with this Conditional Use application is true and correct, to the best of my knowledge. Any agent signing below verifies that he/she has the consent of the owner to file the application.

A handwritten signature in blue ink, appearing to read "Gary Gunn", written over a horizontal line.

Owner's or Authorized Agent's Signature

A handwritten date in blue ink, "06/12/2025", written over a horizontal line.

Date (DD/MM/YYYY)