

PROJECT LOCATION

2023 CARROLL PARK IMPROVEMENTS
PARKS, RECREATION & FORESTRY
1/13/2023

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CODE SUMMARY:

PROJECT SCOPE:
THIS IS NEW CONSTRUCTION OF A PARK SHELTER HOUSE WITH AN ATTACHED CONCESSION STAND AND MEN'S AND WOMEN'S TOILET ROOM. IT IS LOCATED IN A CITY PARK.

GOVERNING CODES - STATE OF WISCONSIN
APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF THE GOVERNING BODIES INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ADOPTED CODES:

2015 IBC WITH 2018 WISCONSIN AMENDMENTS (SPS 362)
2015 IMC WITH 2018 WISCONSIN AMENDMENTS (SPS 364)
2009 WISCONSIN ELECTRIC CODE (SPS 316)
2018 WISCONSIN PLUMBING CODE (SPS 381-387)
2015 IECC WITH 2018 WISCONSIN AMENDMENTS (SPS 362)
2018 NFPA 101 LIFE SAFETY CODE
2015 INTERNATIONAL FIRE CODE
ACCESSIBILITY: 2009 ANSI A117.1 (IBC CHAPTER 11)

BUILDING CLASSIFICATION:

A. OCCUPANCY GROUP - SEC. 304
-SECTION 309.1 - MERCANTILE GROUP M
SALE OF MERCHANDISE

B. CONSTRUCTION TYPE:
-TABLE 601 - TYPE VB - UNPROTECTED WOOD FRAME
NOT SPRINKLERED
-602.5 TYPE V: THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY TYPE OF MATERIAL PERMITTED BY THIS CODE.

C. BUILDING HEIGHT AND AREA SUMMARY:
-SINGLE STORY BUILDING
-FIRST FLOOR AREA
TOILET ROOMS/OFFICE/STORAGE =756 SF
CONCESSION AREA =493 SF
COVERED SEATING =1,073 SF
TOTAL AREA =2,322 SF

-BUILDING VOLUME =31,718 CF

D. ALLOWABLE HEIGHT - TABLE 504.3
OCCUPANCY M, TYPE VB, MAXIMUM HEIGHT = 40'. THIS BUILDING IS 20' HIGH

E. ALLOWABLE AREA - TABLE 506.2 FOR TYPE VB =9,000 SF, THIS BUILDING IS 2,322 SF
FRONTAGE INCREASE - SECTION 506.3 NOT USED

F. OCCUPANCY LOAD
SHELTER HOUSE (BY SEATING PLAN) =32
CONCESSION =6
OFFICE =1
TOTAL OCCUPANT LOAD =39

G. 903 AUTOMATIC SPRINKLER SYSTEMS
-903.2.7 GROUP M - FIRE SPRINKLERS ARE NOT REQUIRED
NONE OF THE FOUR CONDITIONS FOR FIRE SPRINKLERS EXIST
1. FIRE AREA IS LESS THAN 12,000 SF
2. BUILDING IS SINGLE STORY
3. FIRE AREA IS 2,322 SF
4. NO UPHOLSTERED FURNITURE OR MATTRESSES ARE BEING SOLD

H. MEANS OF EGRESS
SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
CONCESSION OCCUPANT LOAD = 3. PER TABLE 1006.2.1 ONE EGRESS DOOR IS REQUIRED
ONE EGRESS DOOR PROVIDED
MAXIMUM EGRESS TRAVEL DISTANCE ALLOWED = 75'. MAXIMUM EGRESS TRAVEL DISTANCE PROVIDED = 75'

I. TOILET ROOM REQUIREMENTS
TABLE 2902.1 NUMBER OF REQUIRED PLUMBING FIXTURES
(TWO ACCESSIBLE TOILET ROOMS PROVIDED)
MERCANTILE M
WATER CLOSETS: MEN 1/500 OCCUPANTS, 1 WC PROVIDED, 3 URINALS PROVIDED
WOMEN 1/500 OCCUPANTS, 3 WC PROVIDED
LAVATORIES: MEN 1/750 OCCUPANTS, 2 PROVIDED
WOMEN 1/750 OCCUPANTS, 2 PROVIDED



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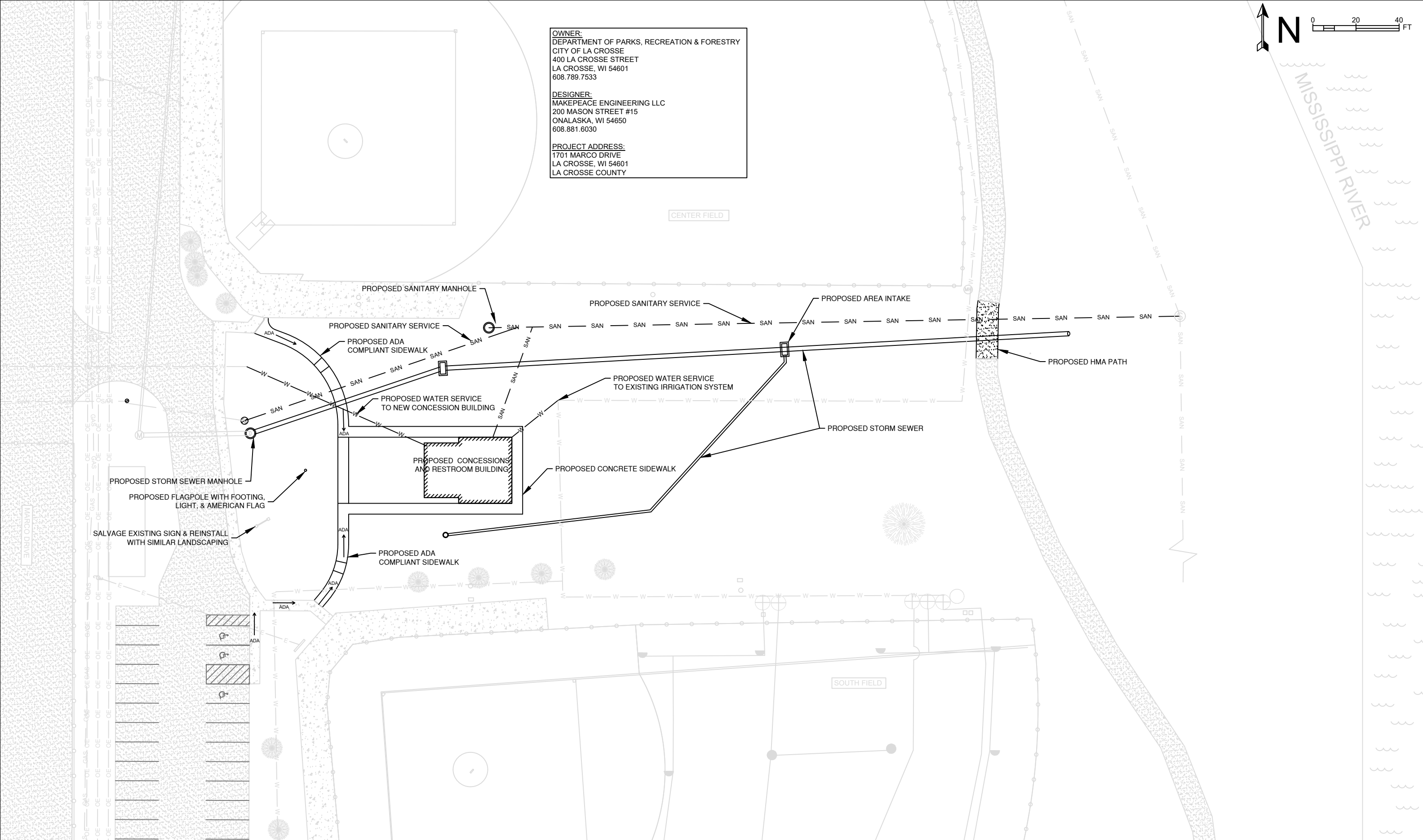
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COVER

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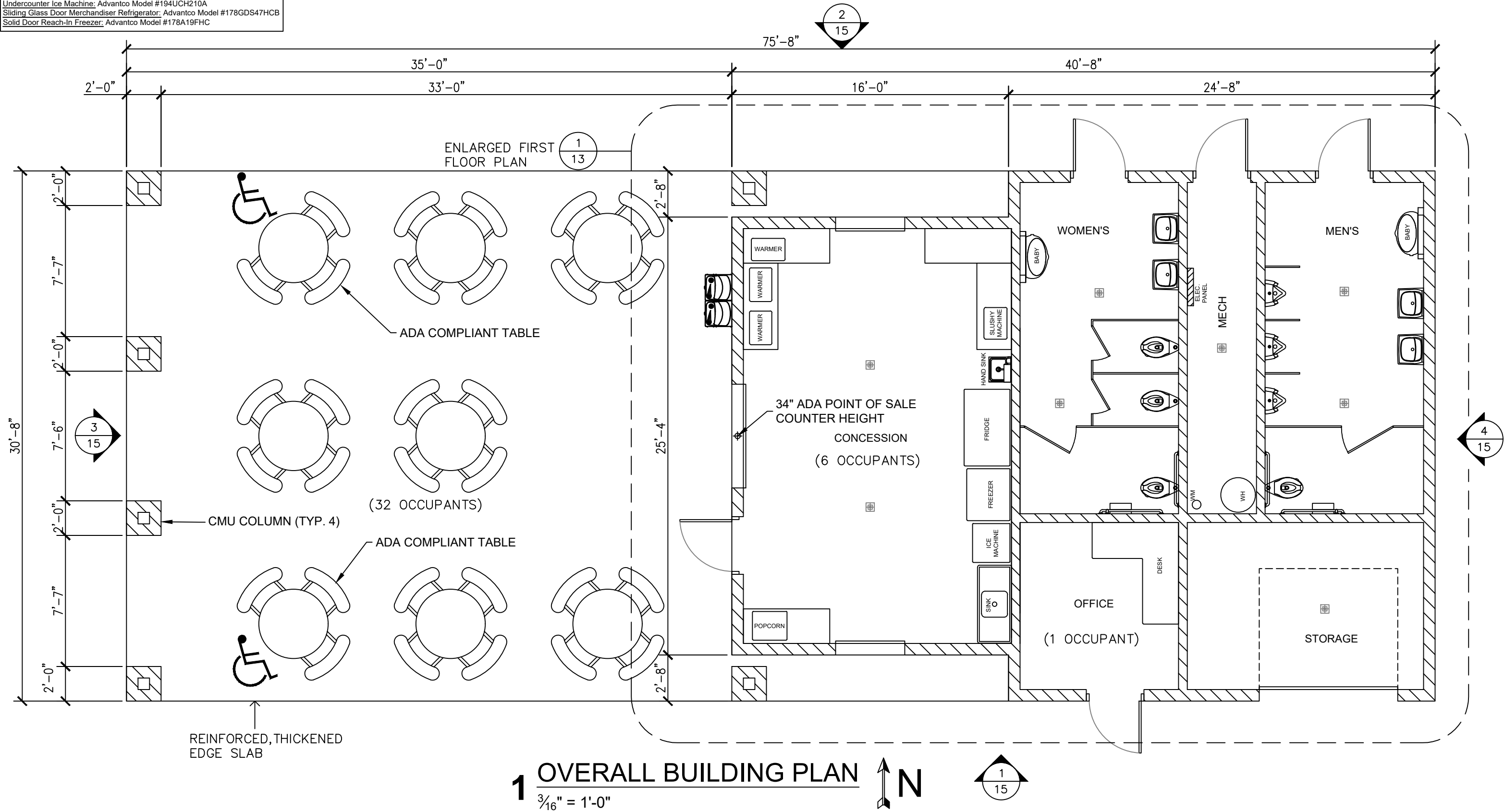
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EQUIPMENT & FURNISHINGS

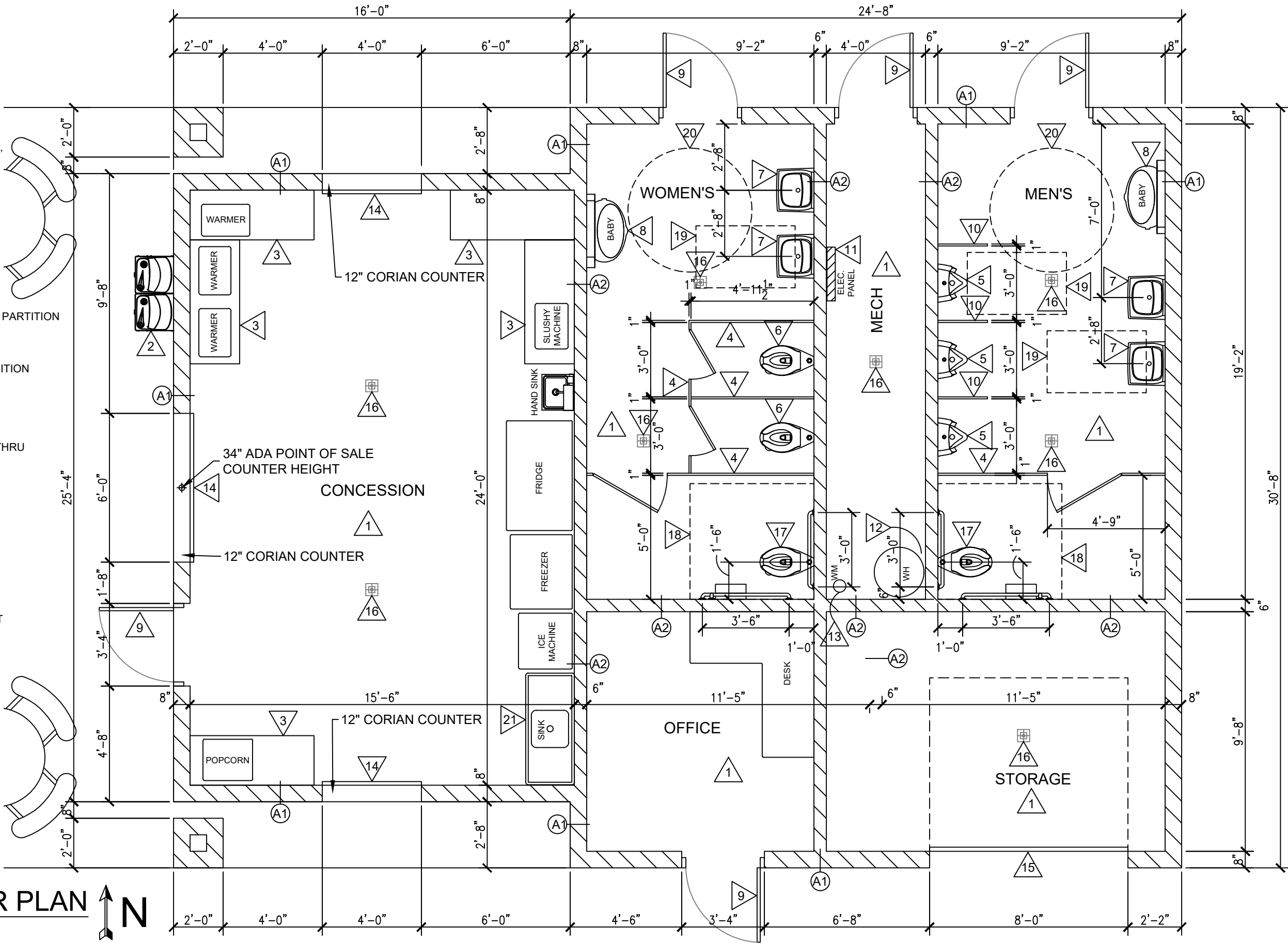
Frozen Beverage Machine: Fetco by Elmeco Model PEL0201 Double 3.2 Gallon
Picnic Tables: Pilot Rock T104
Popcorn Machine: Paragon Model CLP-14 #1112810
Undercounter Ice Machine: Advantco Model #194UCH210A
Sliding Glass Door Merchandiser Refrigerator: Advantco Model #178GDS47HCB
Solid Door Reach-In Freezer: Advantco Model #178A19FHC



- NOTES:**
- A. SEE MASTER COLOR SCHEDULE FOR WALL AND SOLID SURFACE PAINT.
 - B. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENINGS SHALL BE SEALED AFTER UTILITY INSTALLATION.
 - C. PAINT ALL EXPOSED STEEL LINTELS
 - D. INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS, INCLUDING BUILDING EXTERIORS AND DOOR JAMS, BUT EXCLUDING WINDOW JAMS
 - E. EXTEND ALL WALLS TO BOTTOM OF TRUSSES UNLESS NOTED OTHERWISE.
 - F. FLOORS TO BE SEALED CONCRETE.

- KEY NOTES:**
- 1. CONCRETE FLOOR
 - 2. WATER FOUNTAIN
 - 3. 24" W x 60" L x 38" H STAINLESS STEEL TABLE W/ UNDERSHELF & 4" BACKSPLASH
 - 4. FLOOR MOUNTED CEILING BRACED PLASTIC TOILET PARTITION
 - 5. URINAL
 - 6. WATER CLOSET
 - 7. LAVATORY
 - 8. BABY CHANGING STATION-34" TO TOP IN DOWN POSITION
 - 9. 3'-0" x 7'-0" EXTERIOR DOOR
 - 10. WALL MOUNTED PLASTIC TOILET PARTITION
 - 11. ELECTRICAL PANEL
 - 12. TANKLESS WATER HEATER
 - 13. WATER METER LOCATION
 - 14. ROLL-UP OVERHEAD DOOR AT CONCESSION PASS-THRU
 - 15. 8'-0" x 7'-0" OVERHEAD DOOR
 - 16. FLOOR DRAIN
 - 17. WATER CLOSET WITH HORIZONTAL AND VERTICAL GRAB BARS.
 - 18. 60" x 56" CLEAR SPACE - SEE FIG: 604.3.1
 - 19. 30" x 48" CLEAR SPACE
 - 20. 5'-0" TURNING RADIUS.
 - 21. CONCESSION SINK.

- (A) INDICATES WALL TYPE, SEE SHEET 12 FOR WALL TYPE DETAILS
- # INDICATES CONSTRUCTION NOTE, SEE THIS SHEET



1 ENLARGED FIRST FLR PLAN

1/4" = 1'-0"

N



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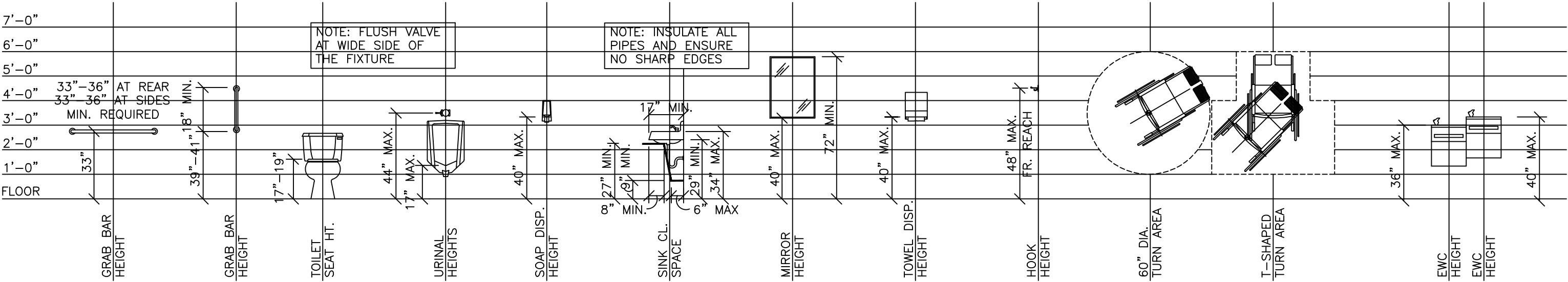
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FIRST FLOOR

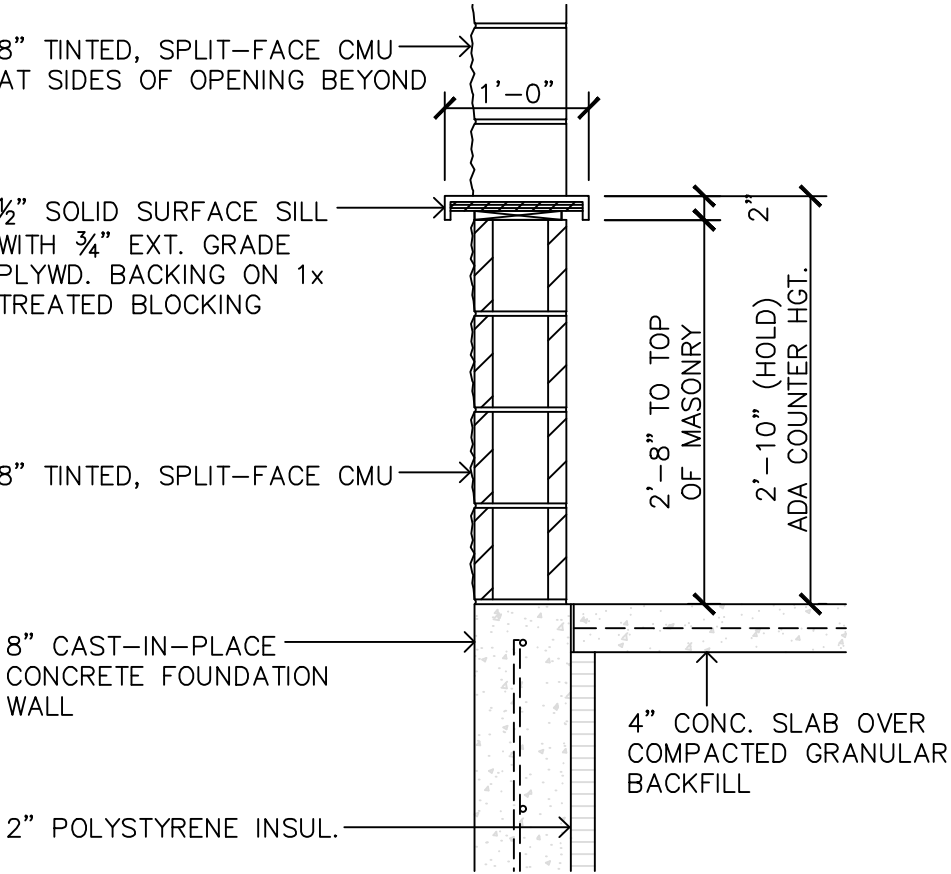
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1 TYP. ACCESSIBLE EQUIPMENT MOUNTING HEIGHTS
NO SCALE



2 CONCESSION PASS-THRU DETAIL
 $\frac{3}{4}" = 1'-0"$



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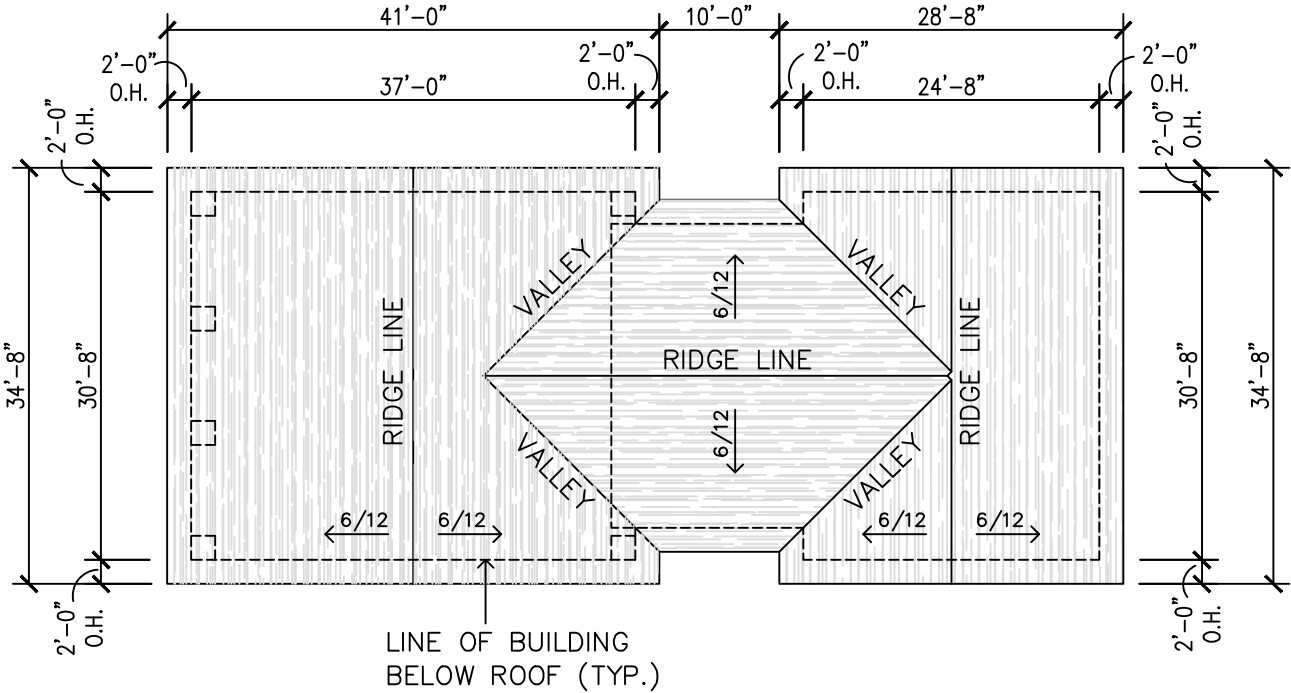
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ADA & WALL DETAILS

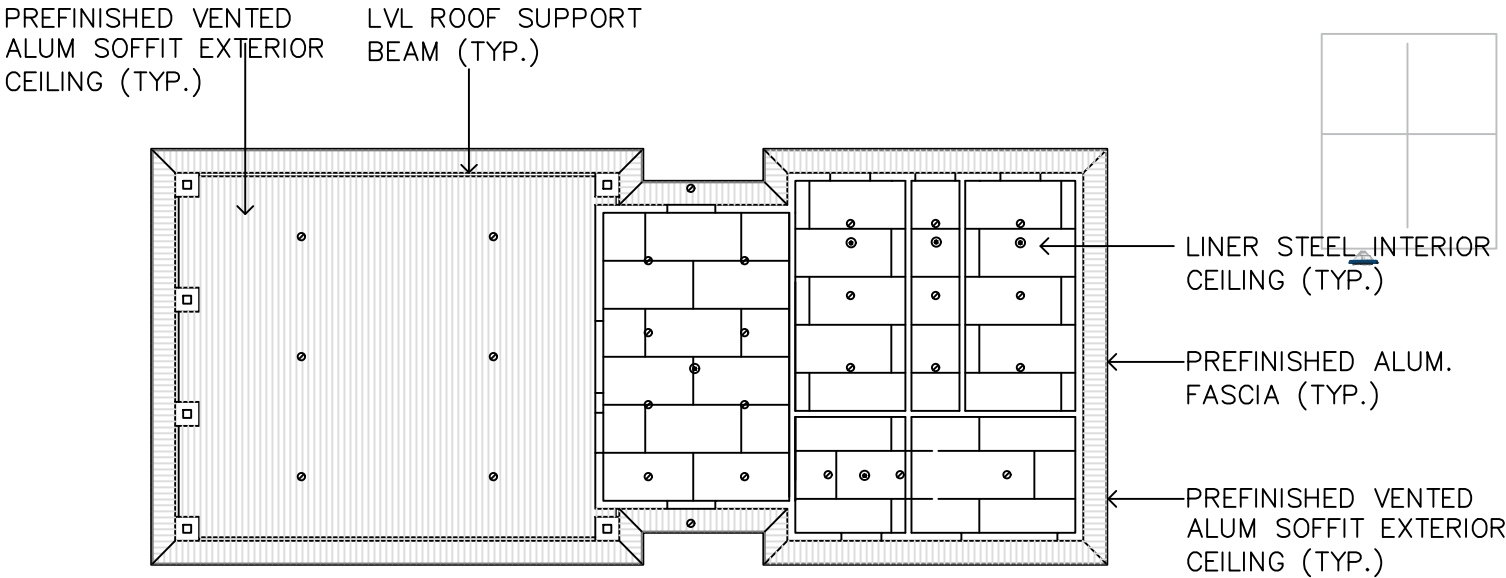
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1 ROOF PLAN
1/16" = 1'-0" N



2 REFLECTED CLG. PLAN
1/16" = 1'-0" N

NOTES:

1. SEE SPECIFICATIONS FOR INSULATION VALUES.
2. VERIFY ROOF EQUIPMENT & PENETRATIONS WITH ALL TRADES.
3. UNLESS REQUIRED OTHERWISE BY EQUIPMENT MANUFACTURER, ALL METAL ITEMS AT ROOF TOPS SHALL BE PAINTED TO MATCH OTHER TRIM BY THE GENERAL CONTRACTOR, PREPARE, PRIME AND PAINT AS REQUIRED. PROVIDE FACTORY PRIMED PRODUCTS WHERE POSSIBLE. PAINT ALL EXPOSED STEEL LINTELS.
4. ROOF PENETRATIONS FOR DRAINS, VENTS, ETC SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT SMACNA REQUIREMENT AND THE ROOF MANUFACTURER APPROVED DETAILS FOR WARRANTY SATISFACTION. COORDINATE QUANTITY AND LOCATIONS WITH MEP CONTRACTOR. PROVIDE CURBS WHERE REQUIRED.
5. ALL METAL ROOF AND FLASHING SHALL MEET CURRENT SMACNA REQUIREMENTS AND MANUFACTURERS SPECIFIED WARRANTY REQUIREMENTS.
6. TOP OF WALL BLOCKING SHOWN IS GRAPHIC. BLOCKING SHALL BE ANCHORED TO WALL BELOW AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER TO WITH STAND WIND UPLIFT AS STATED IN CODE. TOP OF WALLS SHALL SLOPE TOWARD ROOF.
7. STALL BOND BREAK MATERIAL BETWEEN ALL WOOD BLOCKING AND CMU OR CONCRETE.
8. WHERE ROOF DRAINS PENETRATE ABOVE ROOMS WITH NO CEILINGS, CARE SHALL BE TAKEN TO ENSURE NEAT CUTS IN THE DECK, AND PIPING/INSULATION SHALL BE CUT AND ANCHORED NEATLY AT RIGHT ANGLES TO STRUCTURE.

ROOF SYSTEM DESCRIPTION:

STEEL OVER UNDERLAYMENT OVER 5/8" SHEATHING ON SLOPED ROOF TRUSSES.

ROOF EQUIPMENT LEGEND:

- INTAKE VENT
- EXHAUST VENT
- PLUMBING VENT

NOTES:

1. SEE ELECTRICAL FOR LIGHTING TYPES
2. ALL PARTITIONS AND WALLS SHALL EXTEND TO THE BOTTOM OF THE ROOF TRUSSES.
3. INTERIOR CEILING TO BE LINER STEEL FASTENED TO THE BOTTOM OF WOOD TRUSSES.
4. EXTERIOR CEILING TO BE NON-VENTED SHEET METAL OR SOFFIT FASTENED TO BOTTOM OF WOOD TRUSSES.

KEY NOTES:

1. 4X5 ALUMINUM OPEN FACE DOWNSPOUT
2. 5X5 ALUMINUM GUTTER

REFLECTED CEILING EQUIPMENT LEGEND:

- INTERIOR/EXTERIOR RECESSED CEILING LIGHT FIXTURE - SEE ELECTRICAL



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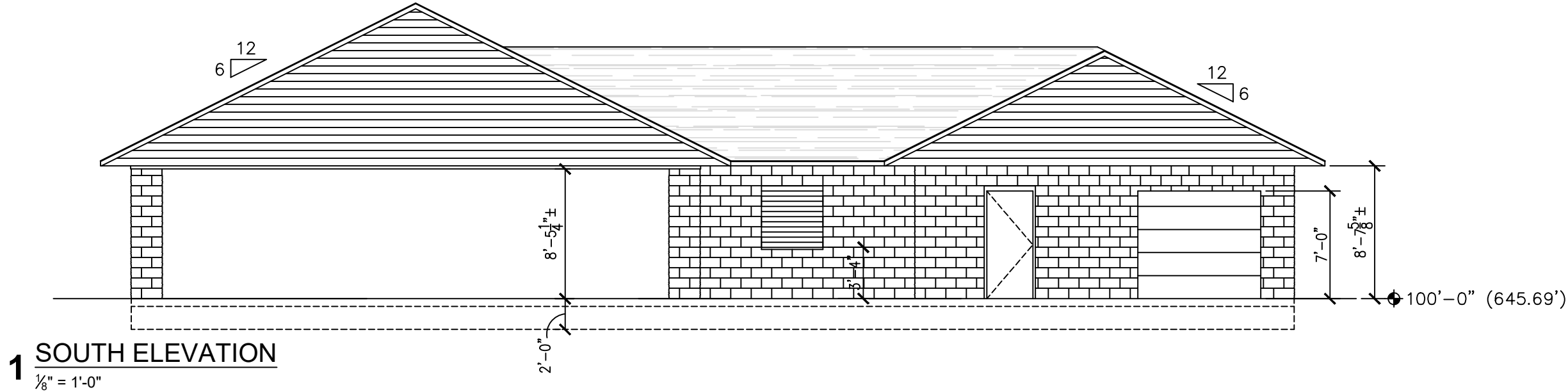
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ROOF & REFLECTED CLG.
PLAN

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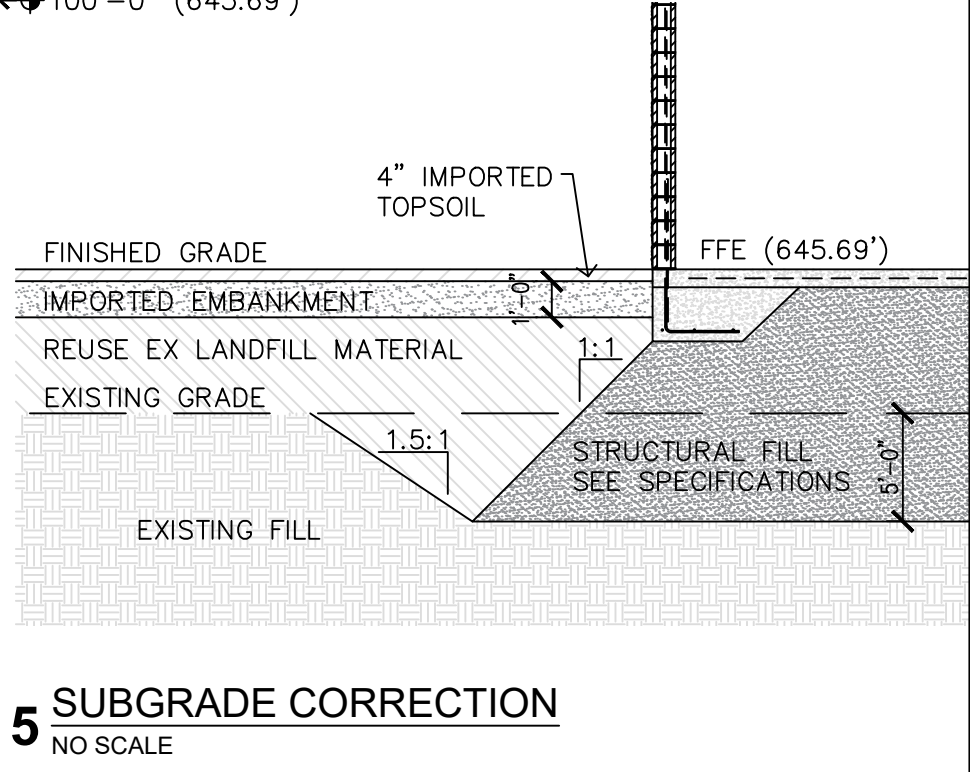
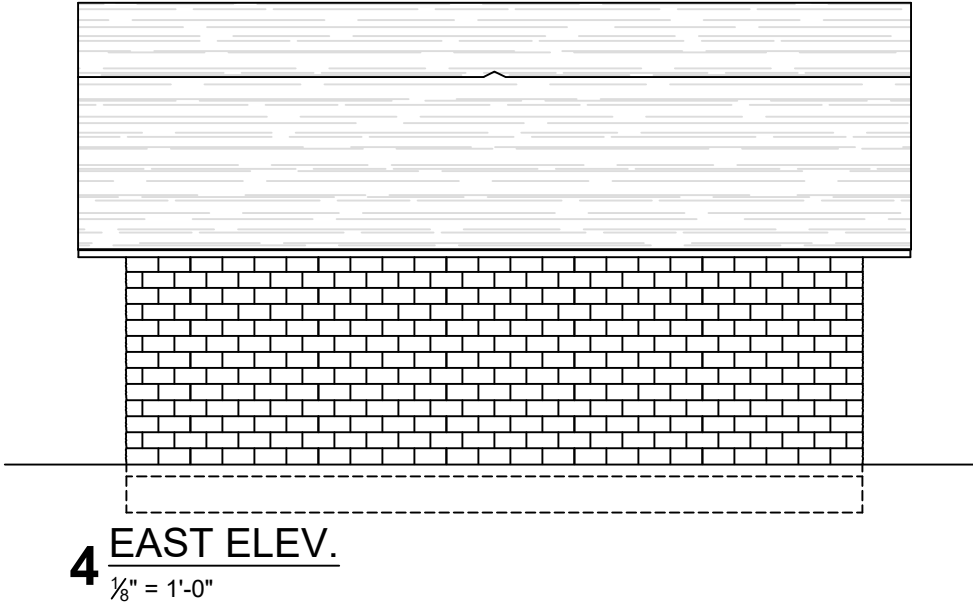
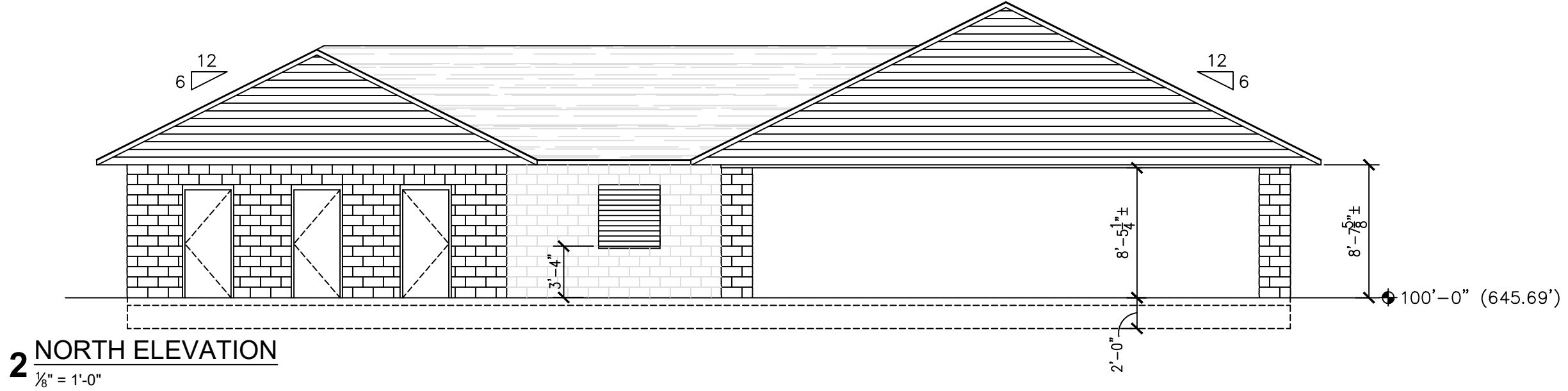
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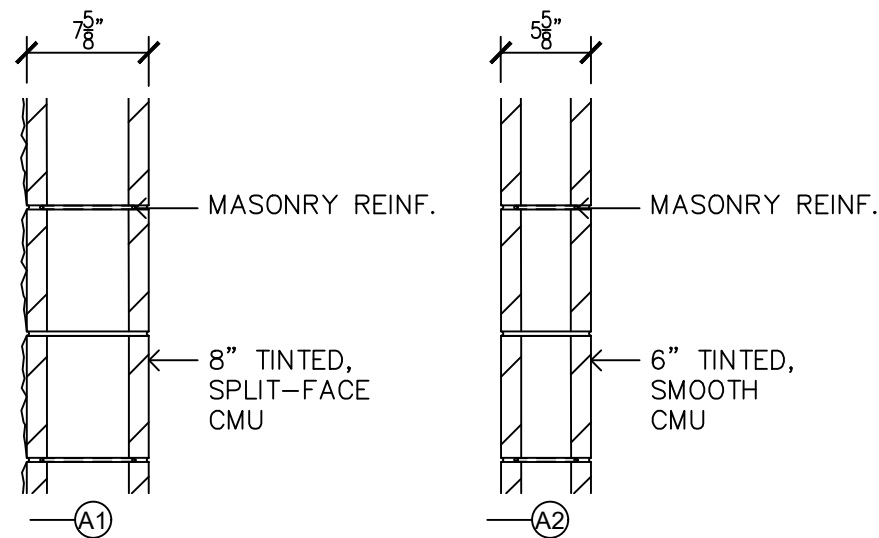


- TYPICAL PITCHED ROOF CONST.:**
- RIDGE VENT CONT. TO EDGES OF ROOF; TYP.
 - ASPHALT SINGLE
 - ICE & WATER SHIELD @ ROOF
 - $\frac{15}{32}"$ A.P.A. RATED PLYWD. SHEATHING; EXTERIOR GRADE
 - PRE-FAB ENG. ROOF TRUSSES @ 2'-0" O.C.; BY OTHERS
 - PROVIDE FOAM PLASTIC VENT CHUTES TO MAINTAIN VENTING AS REQ'D.

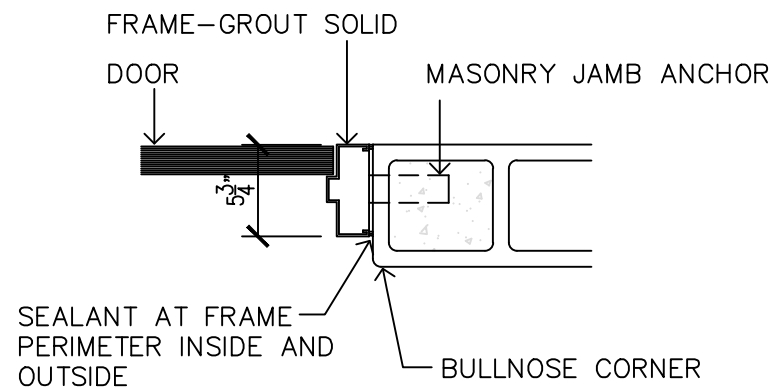
- TYPICAL WALL CONST.:**
- HORIZ. LAP SIDING OVER HOUSE WRAP ON $\frac{1}{2}"$ EXTERIOR SHEATHING. SEE THIS SHEET FOR EXACT AREAS
 - 8" TINTED, SPLIT-FACE CMU REINFORCED AT 16" O.C. - EXTERIOR WALL
 - 6" TINTED, SMOOTH CMU REINFORCED AT 16" O.C. INTERIOR WALL
 - SEE STRUCTURAL SHTS. FOR REINFORCING

- TYPICAL FLOOR SLAB/FOUND. CONST.:**
- 6" CONCRETE FLOOR SLAB WITH REINFORCING
 - THICKENED SLAB EDGES, SEE STRUCTURAL SHEETS
 - SEE STRUCTURAL SHTS. FOR REINFORCING

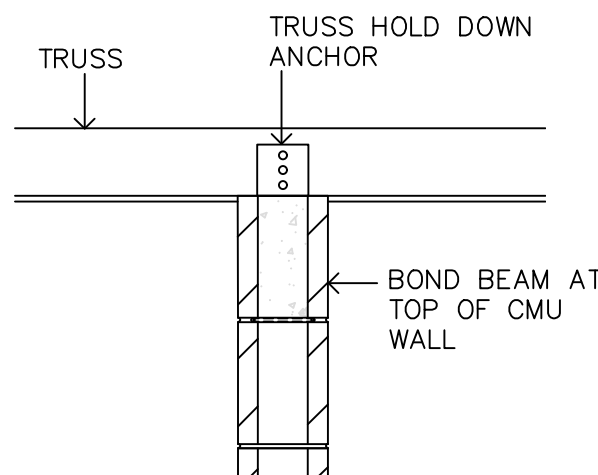




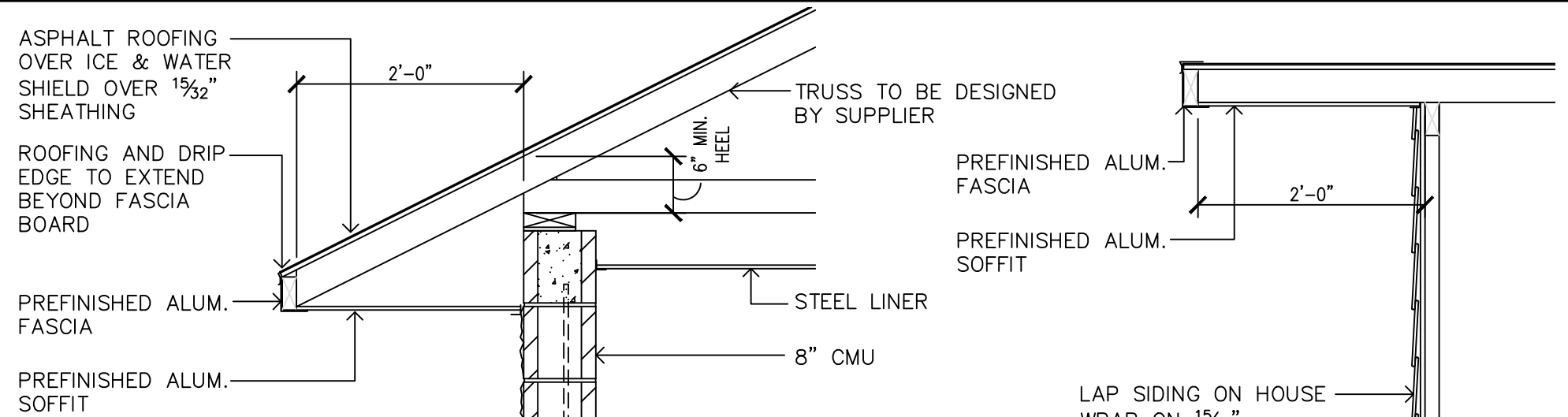
1 WALL TYPES
1" = 1'-0"



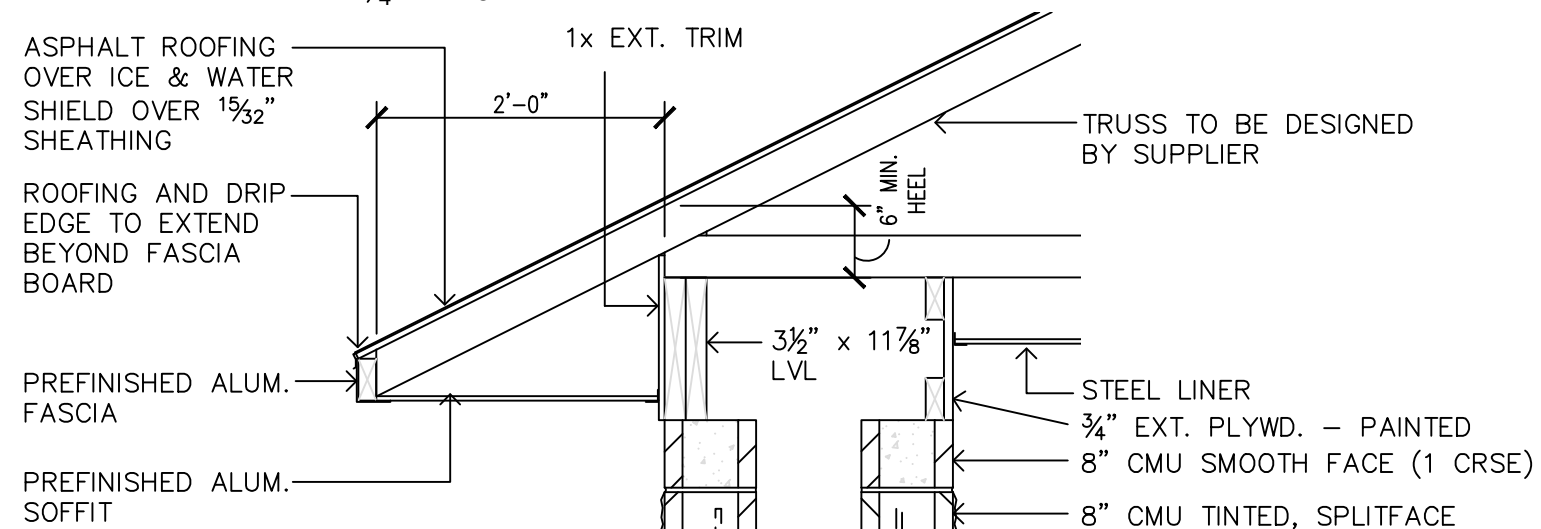
2 DOOR JAMB DETAIL
1" = 1'-0"



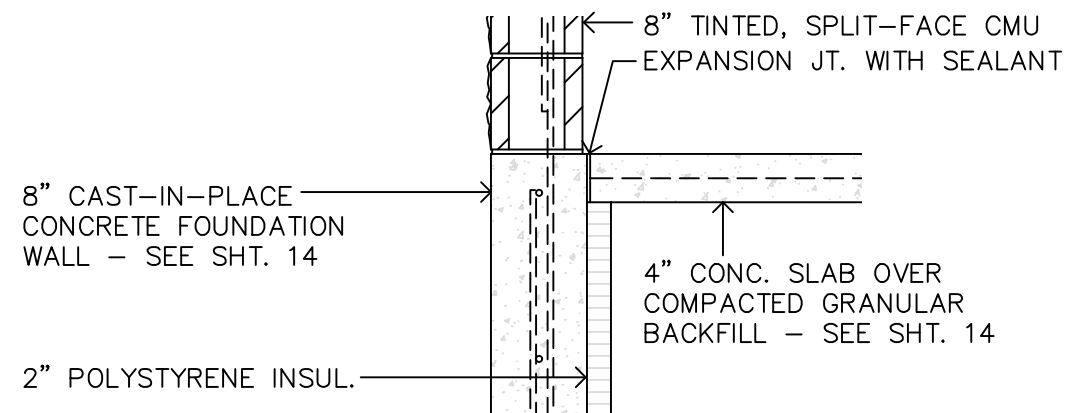
3 TOP OF CMU WALL DETAIL
1" = 1'-0"



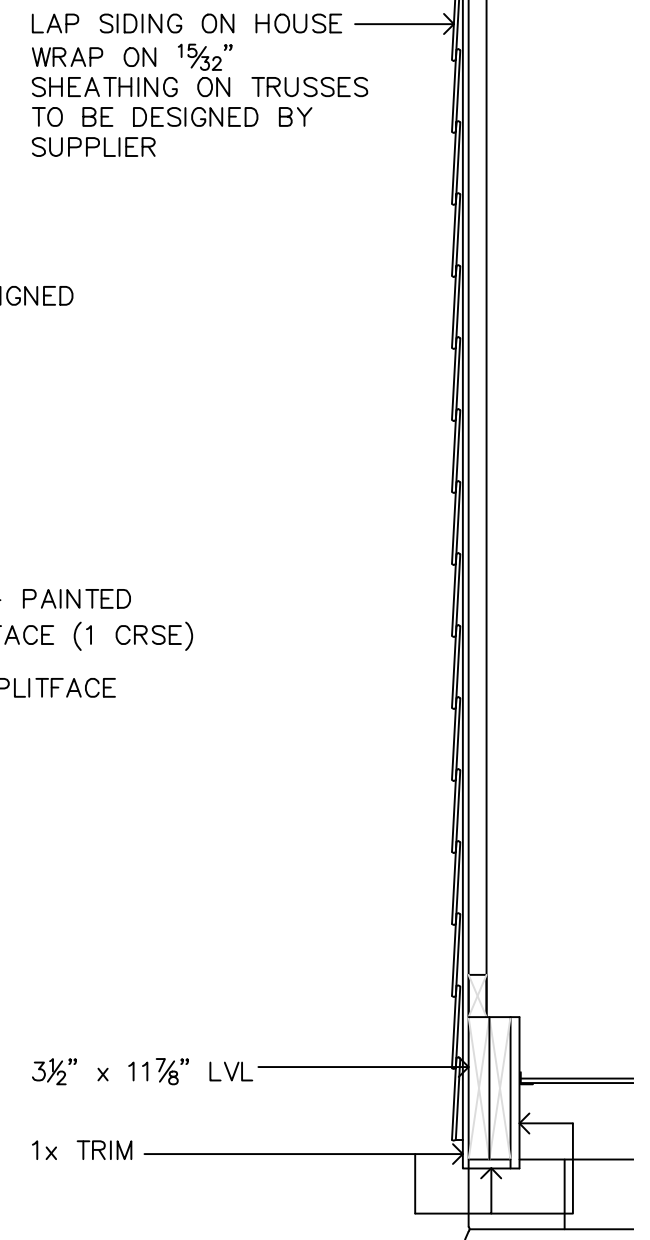
4 TOP OF WALL AT BLDG. DETAIL
3/4" = 1'-0"



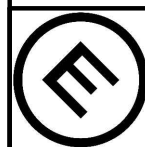
5 TOP OF WALL AT COL. DETAIL
3/4" = 1'-0"



6 TOP OF FOUND. AT BLDG. DETAIL
3/4" = 1'-0"



7 GABLE END DETAIL
3/4" = 1'-0"



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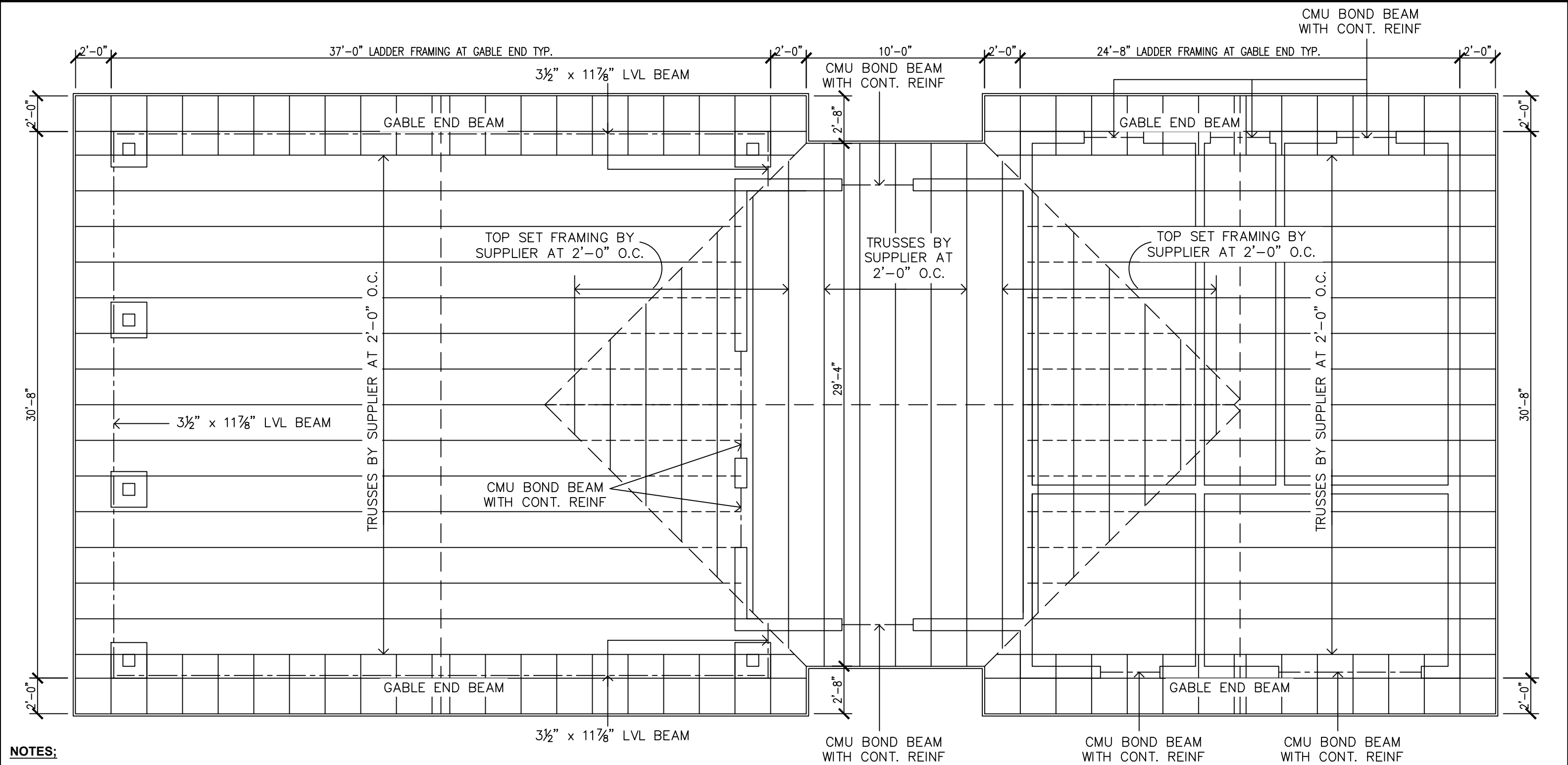
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WALL TYPES & DETAILS

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NOTES:

- 1. 6/12 PITCH
- 2. INSTALL ADDITIONAL BLOCK AS NEEDED FOR INSTALLATION OF SOFFIT, GYPSUM & OTHER MATERIALS.
- 3. ROOF SHALL CONSIST OF ASPHALT ROOFING, UNDERLAYMENT (ICE & WATER SHIELD), 5/32" SHEATHING, ON 2X4 WOOD TRUSS (OR SIMILAR AS DESIGNED BY SUPPLIER).

1 ROOF FRAMING PLAN
3/16" = 1'-0"



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ROOF FRAMING PLAN

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MATERIAL SPECIFICATIONS:

CODE
COMPLY WITH ALL LOCAL AND STATE BUILDING CODES. SECURE PERMITS FROM PROPER OFFICES AND PAY FEES. FURNISH OWNER WITH ONE COPY OF ALL PERMITS.

AS-BUILT DRAWINGS
SUBMIT COPY TO OWNER AT COMPLETION OF PROJECT.

SANITARY DRAIN, WASTE, & VENT PIPING
SCHEDULE 40 PVC DWV PIPE & FITTINGS

DOMESTIC WATER PIPING ABOVE FLOOR
TYPE L COPPER WATER TUBE, HARD TEMPER, ASTM B88, WITH CAST COPPER PRESSURE FITTINGS, ANSI B16.18; WROUGHT COPPER PRESSURE FITTINGS, ANSI 16.22; LEAD FREE (<0.2%) SOLDER, ASTM B32; FLUX, ASTM B813.

DOMESTIC WATER PIPING BELOW FLOOR
HDPE WATER TUBE

WATER VALVES
NIBCO, APOLLO.

BALL VALVES 2" & SMALLER, NIBCO #PF-585-80 (MALE END) OR PS-585-80 (FEMALE END), FULL PORT TWO PIECE (½"-2" SIZES), RPTFE STEM PACKING, GLAND NUT, BRONZE BODY (<15% ZINC), CHROME PLATED BALL, REINFORCED TEFLON SEATS (RPTFE), BLOW-OUT PROOF SYSTEM, ADJUSTABLE PACKING GLAND, 600 PSI WOG, 250°F MAXIMUM OPERATING TEMPERATURE.
CONTRACTOR SHALL INSTALL BRONZE BALL VALVES AS SPECIFIED AND WHERE SHOWN ON DRAWINGS.

PIPE INSULATION
PROVIDE COMPOSITE PIPING INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES) WITH RATINGS NOT EXCEEDING FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50 (TEST METHOD ASTM E-84). COMPLY WITH ALL CODES REGARDING THE USE OF FOAM INSULATION. INSULATE PIPING LOCATED IN INTERIOR SPACES: DOMESTIC COLD WATER PIPING & RAINWATER PIPING. RIGID FIBERGLASS INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS/CF, AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75°F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450°F WITH VAPOR BARRIER JACKET.

SERVICE	INSULATION TYPE	PIPE SIZE	INSULATION THICKNESS
RAINWATER	RIGID FIBERGLASS	6" & SMALLER	1"
HOT WATER	RIGID FIBERGLASS	1" & SMALLER	½"
COLD WATER	RIGID FIBERGLASS	2" & SMALLER	½"

GENERAL PLUMBING NOTES:

1. BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED.
2. PATCH ALL HOLES THROUGH FLOORS W/ NON-SHRINK GROUT.
3. ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED.
4. ALL DOMESTIC WATER SHALL BE CONSTRUCTED WITH TYPE L COPPER.
5. THE PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND IS NOT INTENDED TO BE ALL INCLUSIVE.
6. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR/ACCOMMODATE THE WORK OF OTHER TRADES. ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE ENGINEER.
7. REFER TO BUILDING PLAN SHEETS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT.
8. EACH SYSTEM SHALL BE COMPLETE, WORKING, TESTED, AND OPERATIONAL.
9. NO JOINTS SHALL BE INSTALLED IN UNDER FLOOR WATER PIPING.
10. ALL WATER PIPING SHALL BE INSTALLED SO AS TO FACILITATE COMPLETE DRAINAGE.
11. ALL ROUGH IN PIPING SHALL TERMINATE FROM WALL PERPENDICULAR TO WALL AND LEVEL.
12. ALL WATER PENETRATIONS FOR FIXTURES THROUGH WALLS OR FLOORS SHALL BE SECURED.
13. ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS 384.20(3).
14. DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40.FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS.
15. BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES, CONFORMING TO SPS 382.41(3).
16. EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(C)B.
17. TERMINATE WATER AND SANITARY LATERAL 5'-0" BEYOND EXTERIOR FACE OF FOUNDATION WALL . CONTINUATION SHALL BE UNDER A SEPARATE CONTRACT.
18. UNLESS NOTED OTHERWISE, ALL WASTE AND DRAIN PIPING 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF ¼" PER FOOT AND WASTE AND DRAIN PIPING 2" AND SMALLER SHALL BE INSTALLED AT A SLOPE OF ¼" PER FOOT.
19. CONNECT VENT PIPING ABOVE THE CERNTERLINE OF HORIZONTAL DRAIN PIPING ON CONFORMANCE WITH SPS 382.31(15)(b)1.
20. FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(15)(b)3.
21. THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL CONFORM TO SPS 384.40(14), WHEN APPLICABLE.
22. WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LOG SWEEP FITTINGS.
23. CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35.
24. ALL WATER CLOSETS SHALL BE WATER CONSERVING TYPE, USING A MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS 384.20(3).
25. ALL SINK FAUCETS SHALL USE A MAXIMUM OF 2.2 GPM, CONFORMING TO SPS 384.20(3)
26. ALL LINE VALVES WHICH SERVE TWO OR MORE PLUMBING FIXTURES SHALL HAVE A FLOW OPENING NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING. CONNECTING THE THE VALVE, CONFORMING WITH SPS 384.30(5)(b)3.
27. PLASTIC PIPE MAY PENETRATE REQUIRED FIRE RESISTIVE RATED FLOORS, WALLS, CEILINGS, AND FIRE RATED ASSEMBLIES PROTECTED WITH AN APPROVED FIRE-STOP SYSTEM HAVING AN F-RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY BEING PENETRATED.
28. CORE DRILL OPENINGS IN EXISTING FLOOR/WALL, AS REQUIRED. SIZE OF OPENINGS SHALL NOT EXCEED 1" LARGER THAN THE OD OF THE PIPING PENETRATING THE ASSEMBLY. COORDINATE WITH DRAFT/FIRE STOPPING REQUIREMENTS.

FIXTURE UNIT SUMMARY										
SYMBOL	DESCRIP	FIXTURE	COUNT	PIPE SIZE				FIXTURE UNITS		
				WASTE	VENT	CW	HW	DFU	CWFU	HWFU
FD-1	FLOOR DRAIN	ZURN EZ-1 FLOOR DRAIN-SQUARE	8	3"	1 1/2"	-	-	24	-	-
L-1	LAVATORY	KOHLER-K-2005 WITH ZURN Z81104-XL-18M	4	2"	1 1/2"	1/2"	1/2"	4	2	2
S-1	PREP SINK	T.B.D.	1	3"	1 1/2"	3/4"	3/4"	3	2	2
MB-1	MOP SINK	MUSTEE #64 MOP SINK WITH Z1996-SF	1	3"	1 1/2"	3/4"	3/4"	4	1.5	1.5
WC-1	WATER CLOSET	KOHLER K96057 WITH ZURN Z6000PL-WS1	4	4"	1 1/2"	1"	-	24	26	-
UR-1	URINAL	KOHLER K-4991-ET-0	3	2"	2"	3/4"	-	6	6	-
DF-1	DRINKING FOUNTAIN	ELKAY VRCGRN8	2	1 1/2"	1 1/2"	1/2"	-	1	1	-
HB-1	HOSE BIBB	-	1	-	-	1/2"	-	3	3	-
TOTAL								65	40	4

PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	FIXTURE	COUNT	PIPE CONNECTIONS		
				SS	CW	HW
				DFU	CWFU	HWFU
FD-1	FLOOR DRAIN	ZURN EZ-1 FLOOR DRAIN-SQUARE	8	3	-	-
L-1	LAVATORY	KOHLER-K-2005 WITH ZURN Z81104-XL-18M	4	1	0.5	0.5
S-1	PREP SINK	T.B.D.	1	3	2	2
MB-1	MOP SINK	MUSTEE #64 MOP SINK WITH Z1996-SF	1	4	1.5	1.5
WC-1	WATER CLOSET	KOHLER K96057 WITH ZURN Z6000PL-WS1	4	6	6.5	-
U-1	URINAL	KOHLER K-4991-ET-0	2	2	2	-
WF-1	WATER FOUNTAIN	ELKAY VRCGRN8	2	0.5	0.5	-

PLUMBING SYMBOLS		
		DOMESTIC COLD WATER (CW)
		DOMESTIC HOT WATER (HW)
		DOMESTIC HOT WATER RETURN (HWR)
		VENT PIPING (V)
		SANITARY SEWER PIPING (SAN)
	BALL VALVE	
	CHECK VALVE	
	PIPE SIZE (FIXTURE UNIT VALUE)	
	PIPE CAP	
	FLUSH CLEANOUT/WALL CLEANOUT	
	PIPE UP OR RISE	
	PIPE DOWN OR DROP	
	WATER HAMMER ARRESTOR	
	FLOOR ELEVATION	
	DETAIL 1, SHEET P-2	
	VENT THROUGH ROOF	

WATER HEATER

WH-1
A.O. SMITH ECJS-20
20 GALLON ELECTRIC
WATER HEATER

RECIRCULATION PUMP

GRUNDFOS COMFORT 10-16 A PM B5/LC

EXPANSION TANK

AMTROL ST-5



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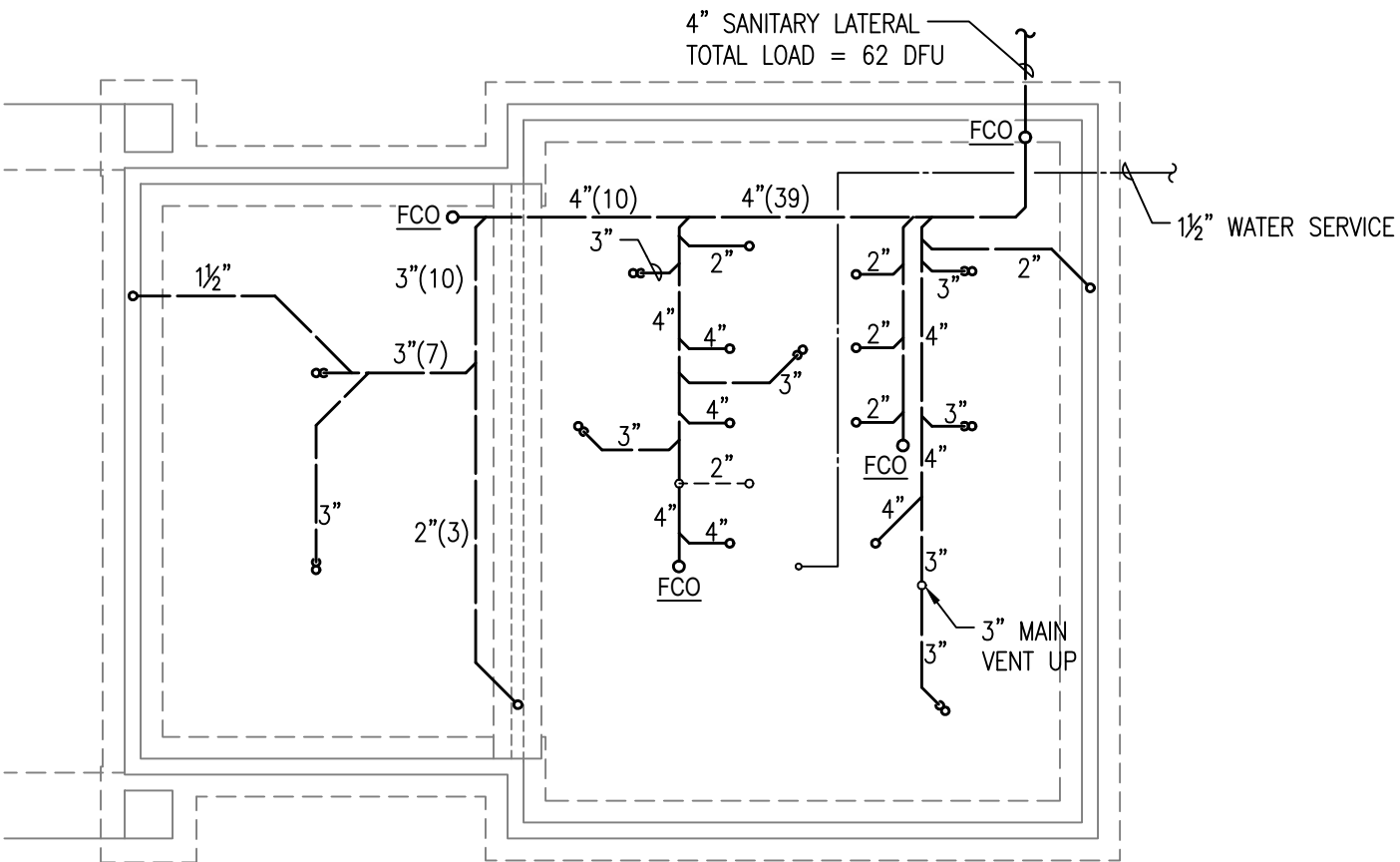
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PLUMBING NOTES

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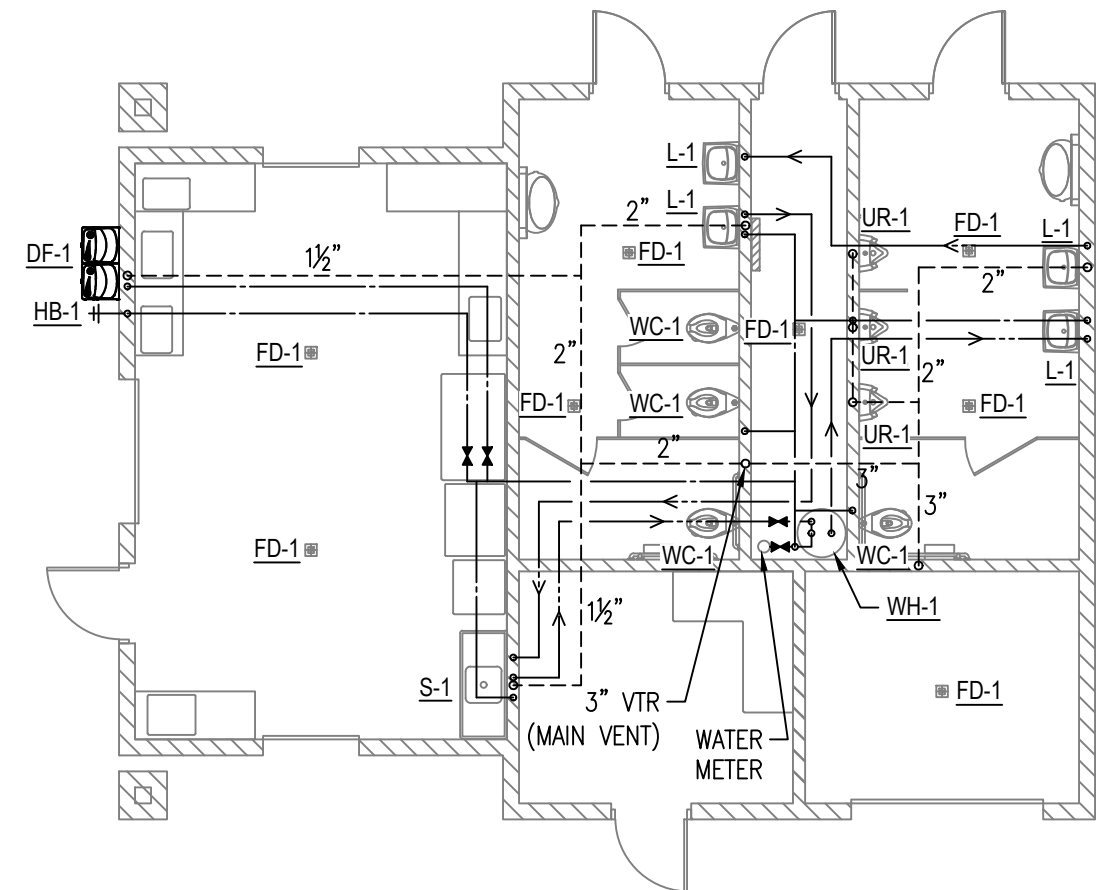
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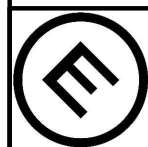


1 BELOW GRADE PIPING PLAN - PLUMBING
 $\frac{1}{8}" = 1'-0"$  N

NOTES:
 REFER TO ISOMETRICS FOR WATER PIPING SIZES



2 FIRST FLOOR PLAN - PLUMBING
 $\frac{1}{8}" = 1'-0"$  N



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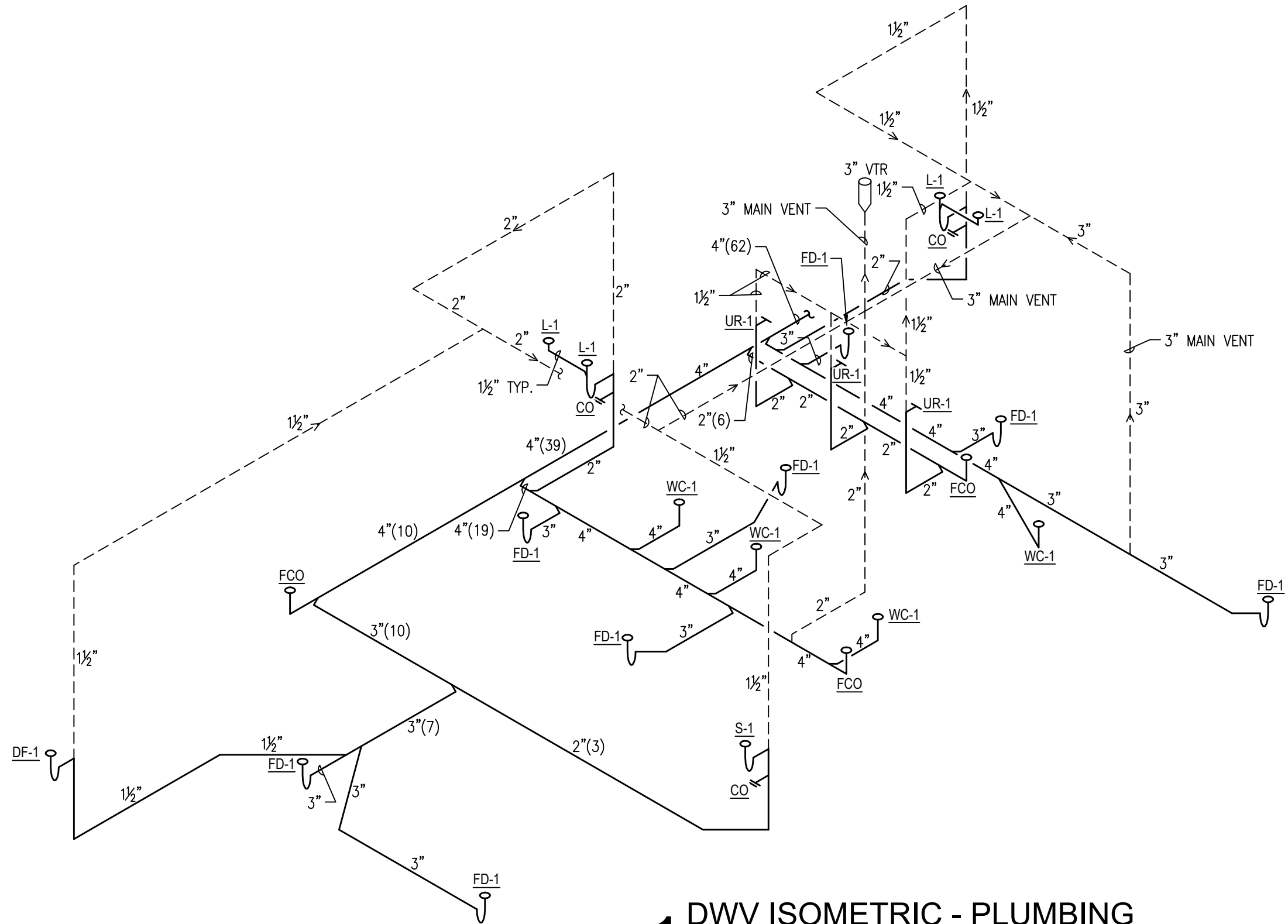
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PLUMBING
PLANS

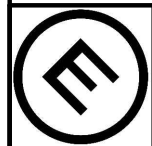
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1 DWV ISOMETRIC - PLUMBING
NO SCALE



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**DWV ISO
DIAGRAM**

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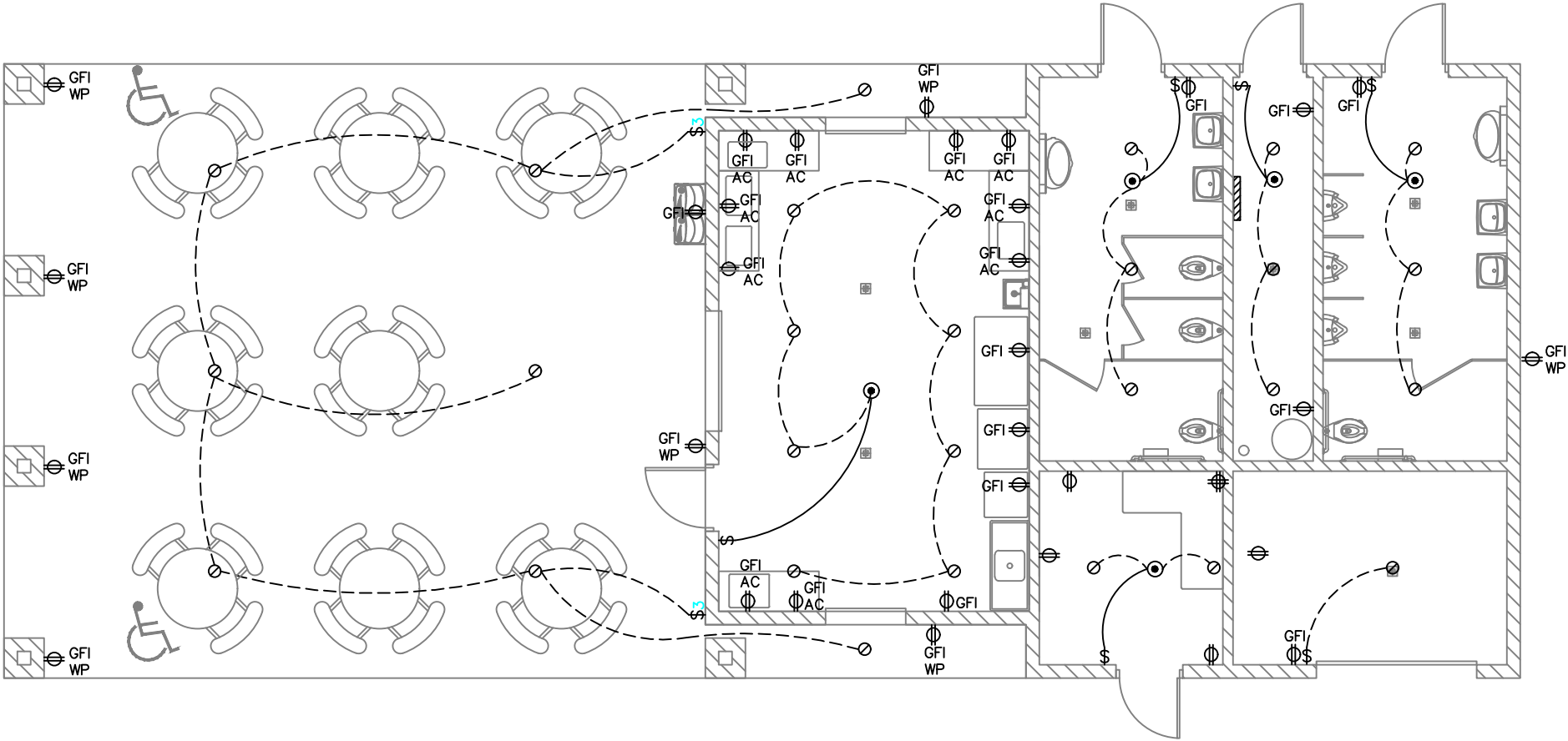
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ELECTRICAL FIXTURE SCHEDULE

DESCRIPTION	COUNT
CONVIENCE RECEPTACLE	22
RECESSED EXTERIOR CEILING LIGHT	8
RECESS INTERIOR CEILING LIGHT	20
WATER FOUNTAINS	2
ON DEMAND WATER HEATER	1

NOTES

1. CONTRACTOR SHALL COORDINATE EXTENSION OF ELECTRICAL SERVICE TO THE NEW METER WITH UTILITY.
2. CONTRACTOR SHALL CONSTRUCT NEW METER AND NEW PANEL.
3. NEW PANEL SHALL BE SIZED FOR ALL PROPOSED LOADS AT THE NEW PARK SHELTER BUILDING.
4. CONTRACTOR SHALL EXTEND CONDUIT AND CONDUCTOR 20 FEET OUTSIDE THE PROPOSED PARK SHELTER - FIELD VERIFY DIRECTION WITH OWNER.
5. ALL RECESSED CEILING LIGHTS IN EACH BATHROOM SHALL BE CONTROLLED BY A SINGLE, MOTION-SENSING SWITCH.
6. THE LIGHT IN THE MECHANICAL ROOM SHALL BE CONTROLLED BY A SWITCH ADJACENT TO THE DOOR.
7. AT LEAST TWO CIRCUITS OF EXTERIOR RECEPTACLES SHALL BE PROVIDED FOR EACH SIDE OF THE BATHROOM STRUCTURE.



- MOTION SENSOR
- DUPLEX CONVENIENCE RECEPTACLE
(WP = WEATHER PROOF
GFI = GROUND FAULT PROTECTED
AC = MOUNT RECEPT. AT COUNTER HEIGHT - VERIFY HGT.)
- FOUR-PLEX (DOUBLE DUPLEX) RECEPTACLE
- RECESSED CEILING LIGHT
- SWITCH
(3 = THREE-WAY)
- ELECTRICAL PANEL

1 SCHEMATIC ELECTRICAL PLAN
1/8" = 1'-0" N



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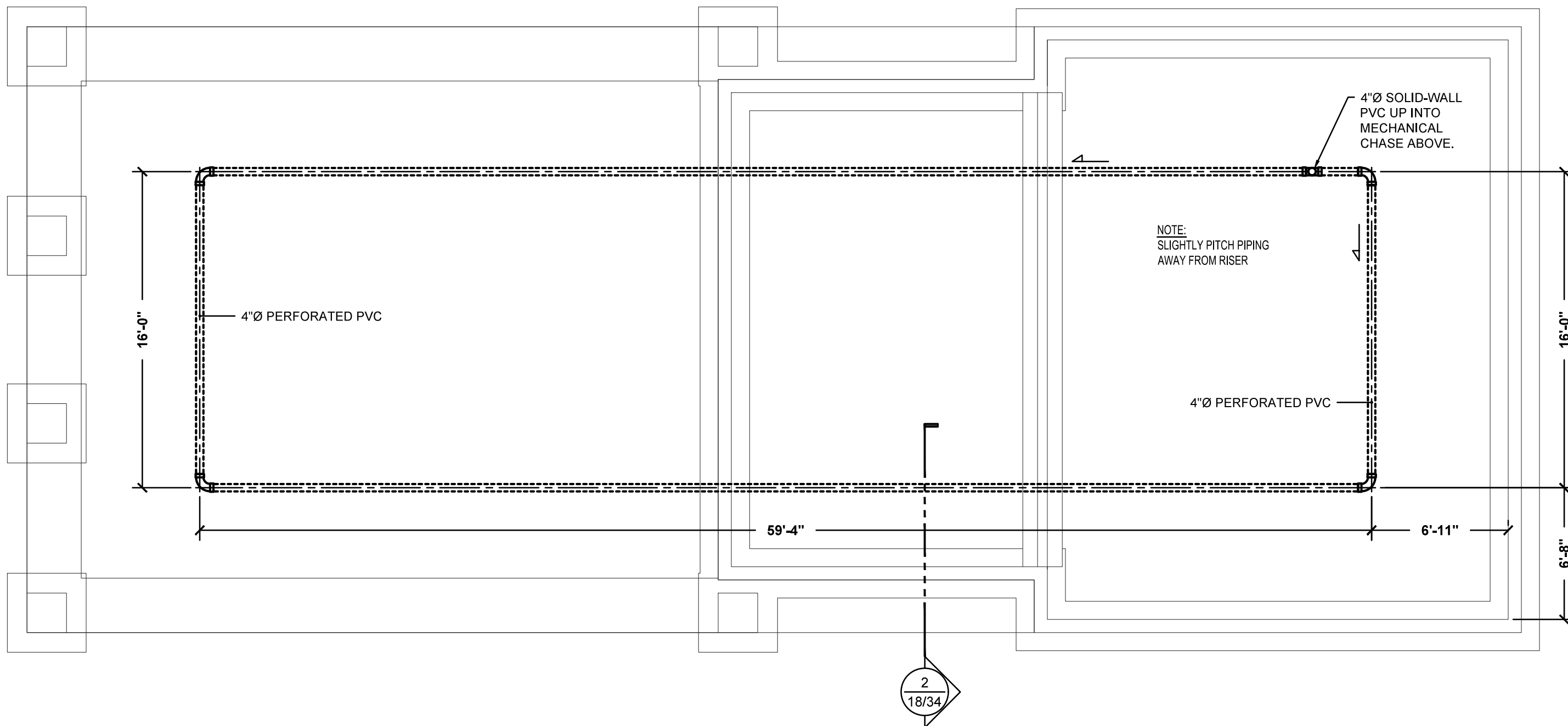
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ELECTRICAL PLAN

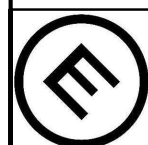
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1 METHANE EXTRACTION – UNDERFLOOR PLAN VIEW
 16/34 SCALE: 3/16" = 1'-0"



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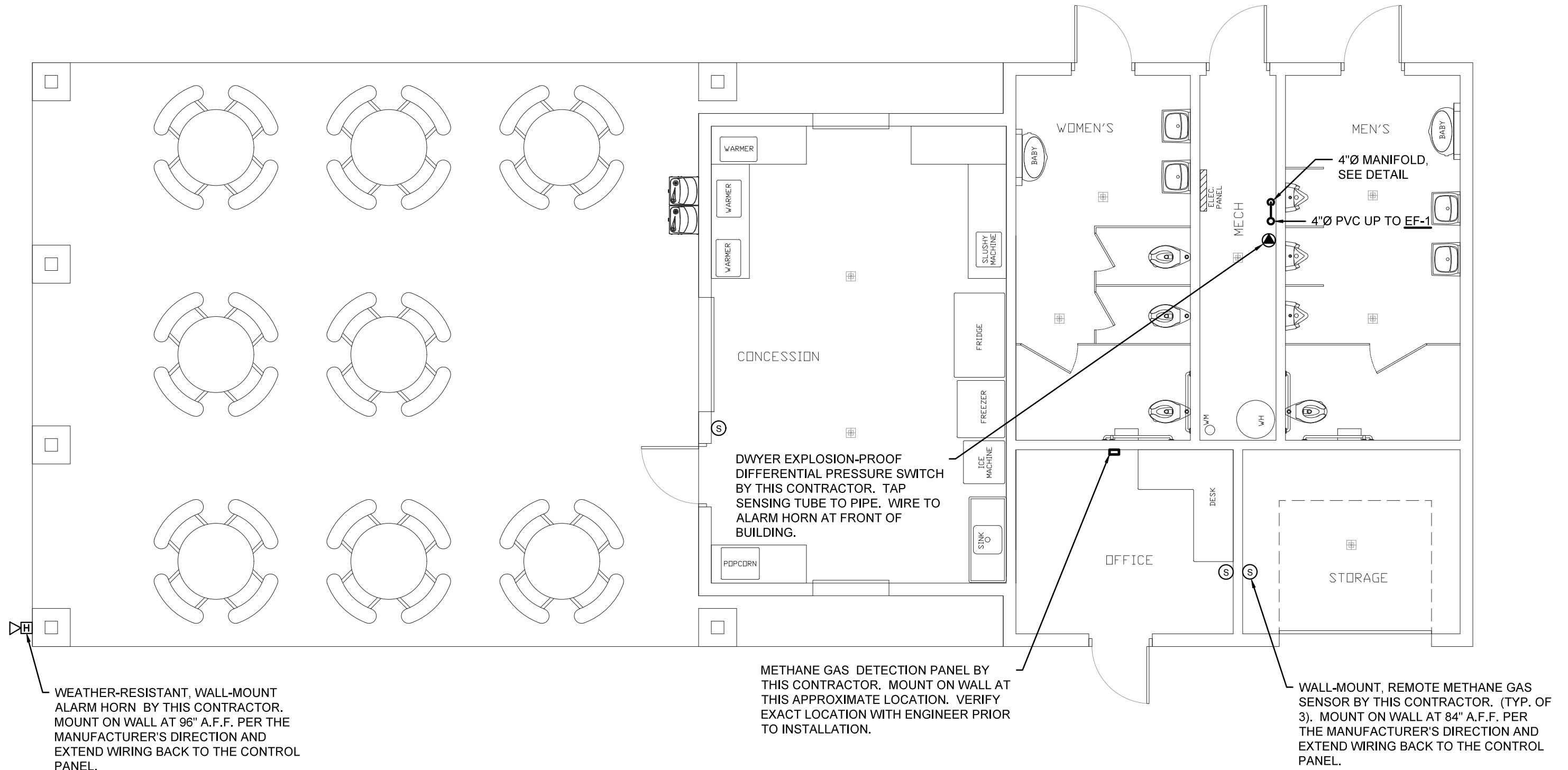
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**METHANE EXTRACTION
PLAN VIEW**

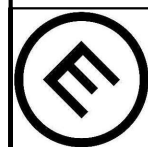
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1 FIRST FLOOR PLAN VIEW
17/34 SCALE: 3/16" = 1'-0"



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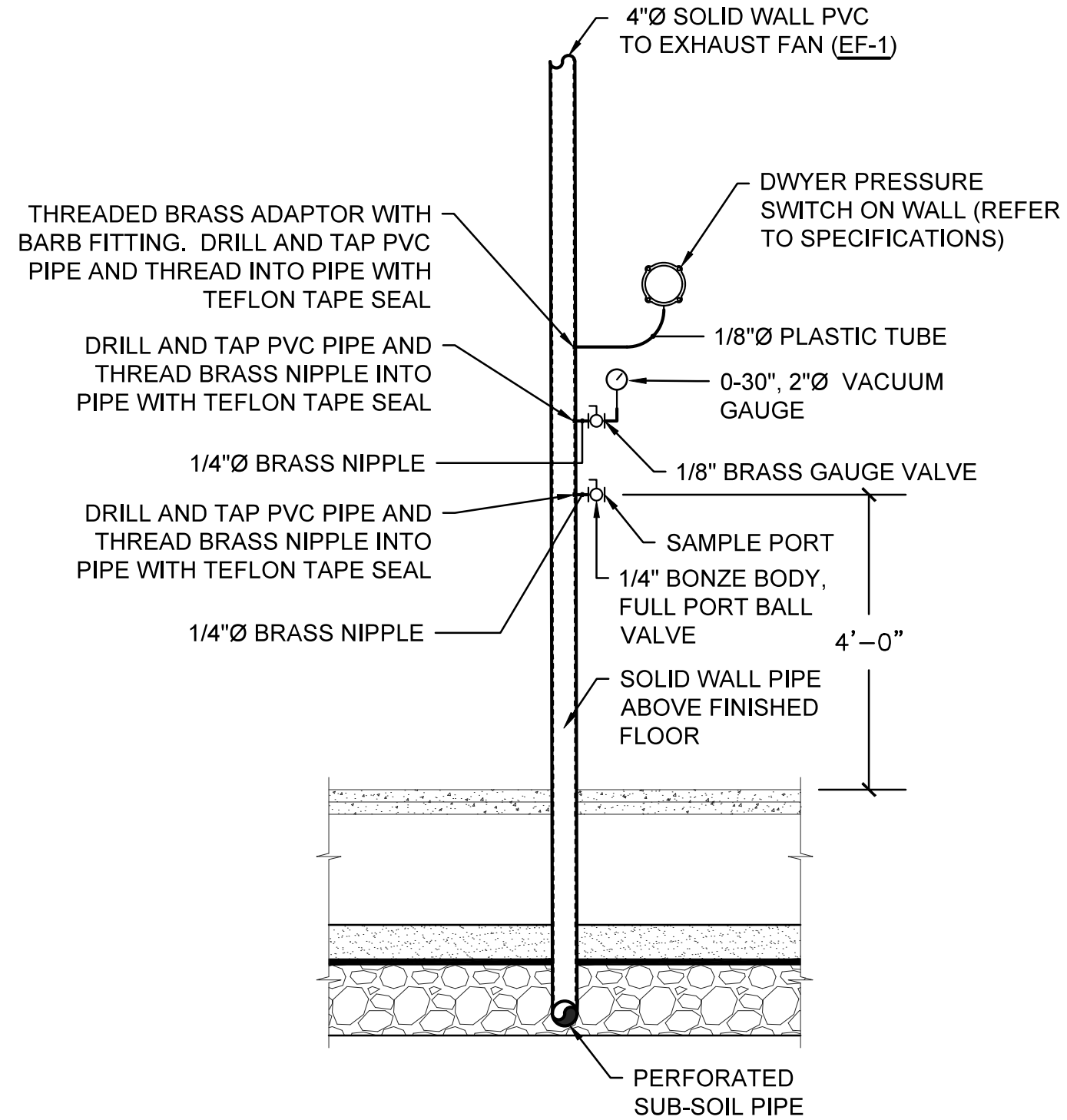
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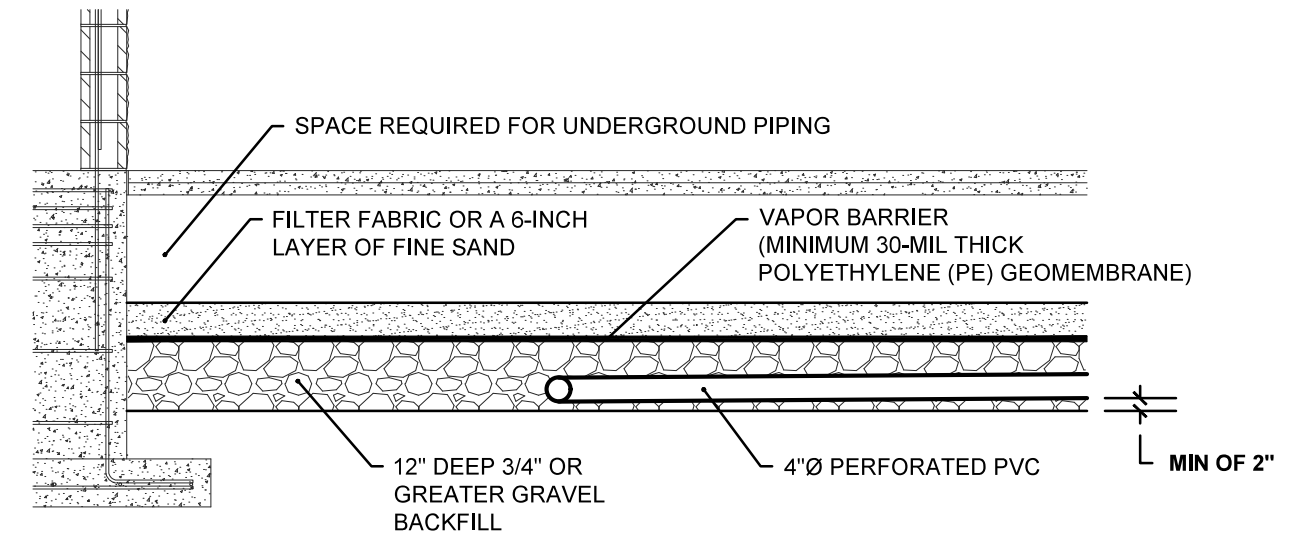
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**METHANE EXTRACTION
MECHANICAL PLANS**

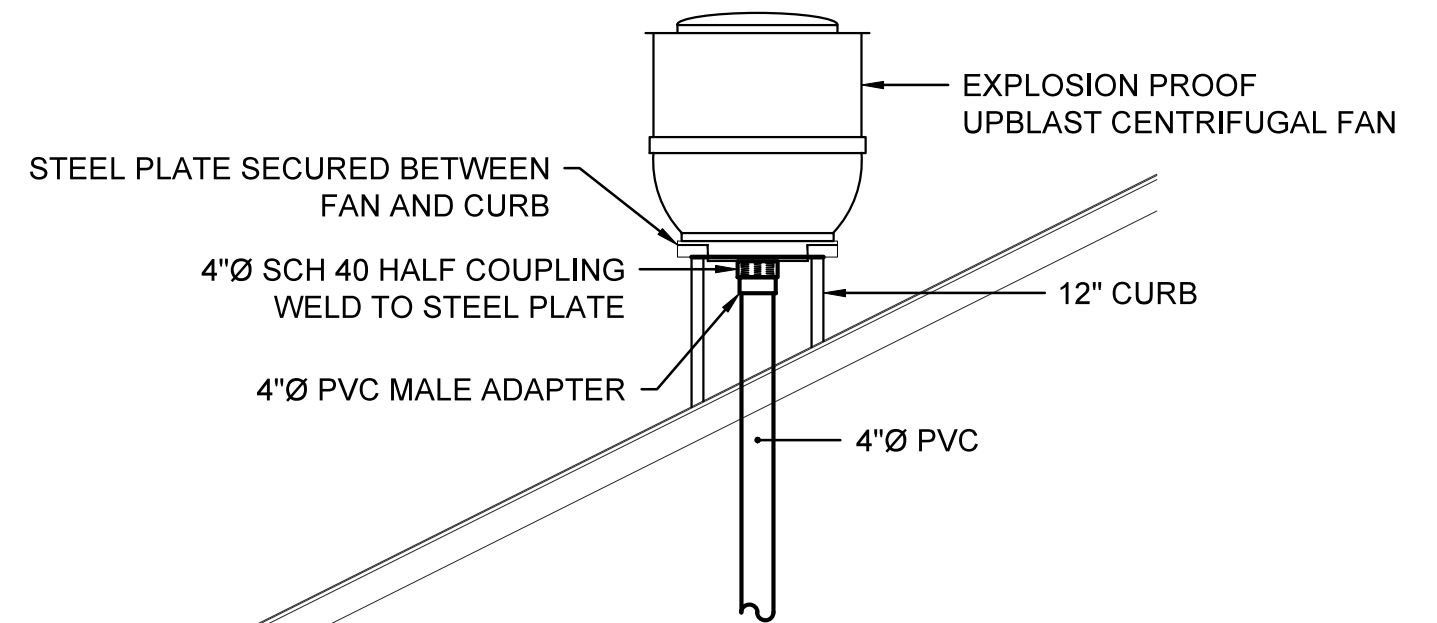
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1 MANIFOLD DETAIL
18/34 NOT TO SCALE



2 SECTION THOUGH SUBSOIL
18/34 SCALE: 3/8" = 1'-0"



3 SECTION AT EXHAUST FAN
18/34 SCALE: 1/2" = 1'-0"



POWER ROOF VENTILATOR - EXPLOSION PROOF

MARK	MODEL	SERVICE	CONTROL	FAN STYLE	CFM	Total S.P	Discharge Direction	Roof - Wall Opening	FAN			ELECTRICAL					MAX. WEIGHT	ACCESSORIES/ OPTIONS	REMARKS
									RPM	DIA.	DRIVE	H.P.	VOLT	PHASE	FLA	MOP			
EF-1	STXDe-10	Methane Extraction	Manual (Fan Runs Continuously)	Centrifugal Fan	200	1	Upblast	13.5" x 13.5"	1,550	10"	Direct	1/3	230	1		20	62#	2, 8	A, B

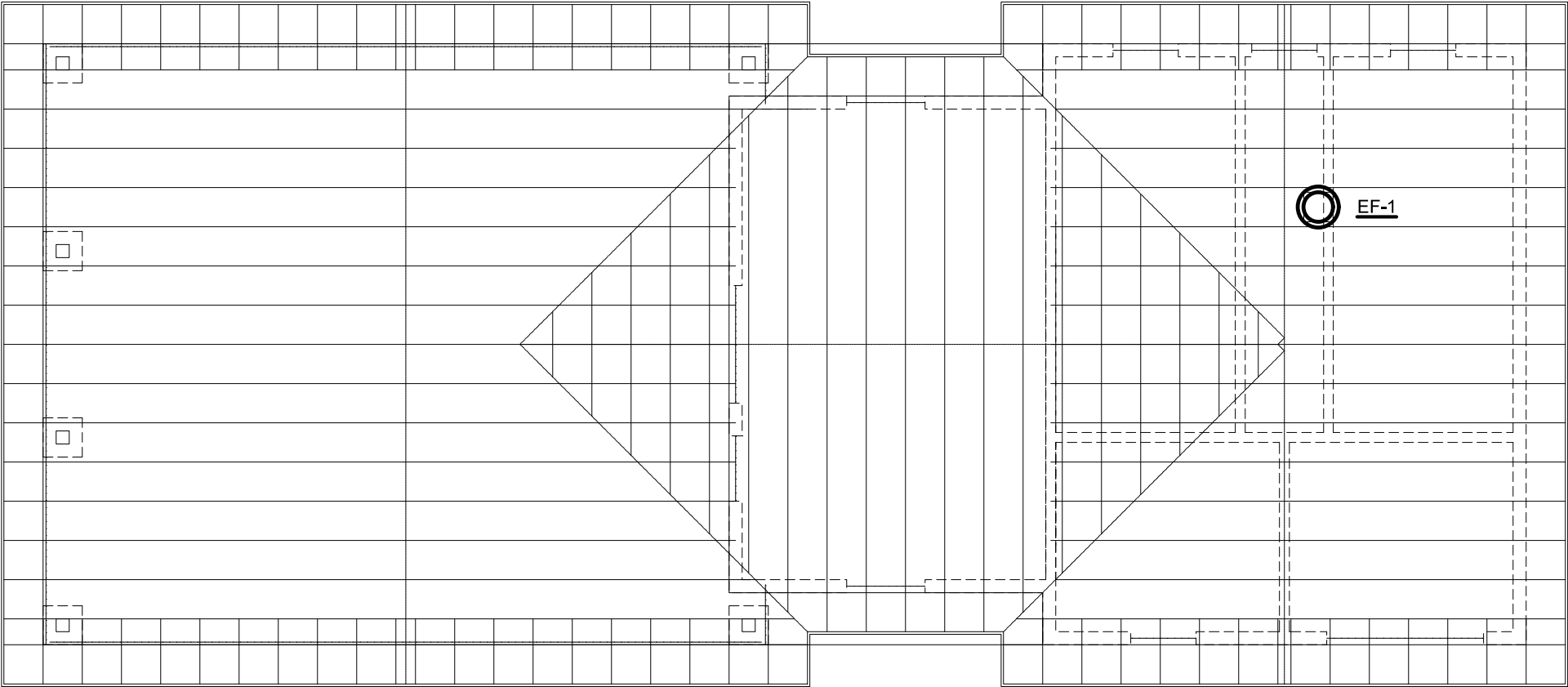
Based on products by S&P. Equal products by prior approval only.

ACCESSORIES/OPTIONS:

- 1. Roof Curb for Flat Roof
- 2. Roof Curb for Pitched Roof
- 3. Gravity Backdraft Damper
- 4. Motorized Backdraft Damper
- 5. Hinged Subbase
- 6. Insect Screen
- 7. Combination Disc. Switch/Variable Speed Control
- 8. Disconnect Switch

REMARKS:

- A. Supply this fan with an explosion-proof motor suitable for NFPA Class 1, Division 1 applications.
- B. Fan and fan wheel shall be non-sparking.





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1
19/34

ROOF PLAN VIEW

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

N



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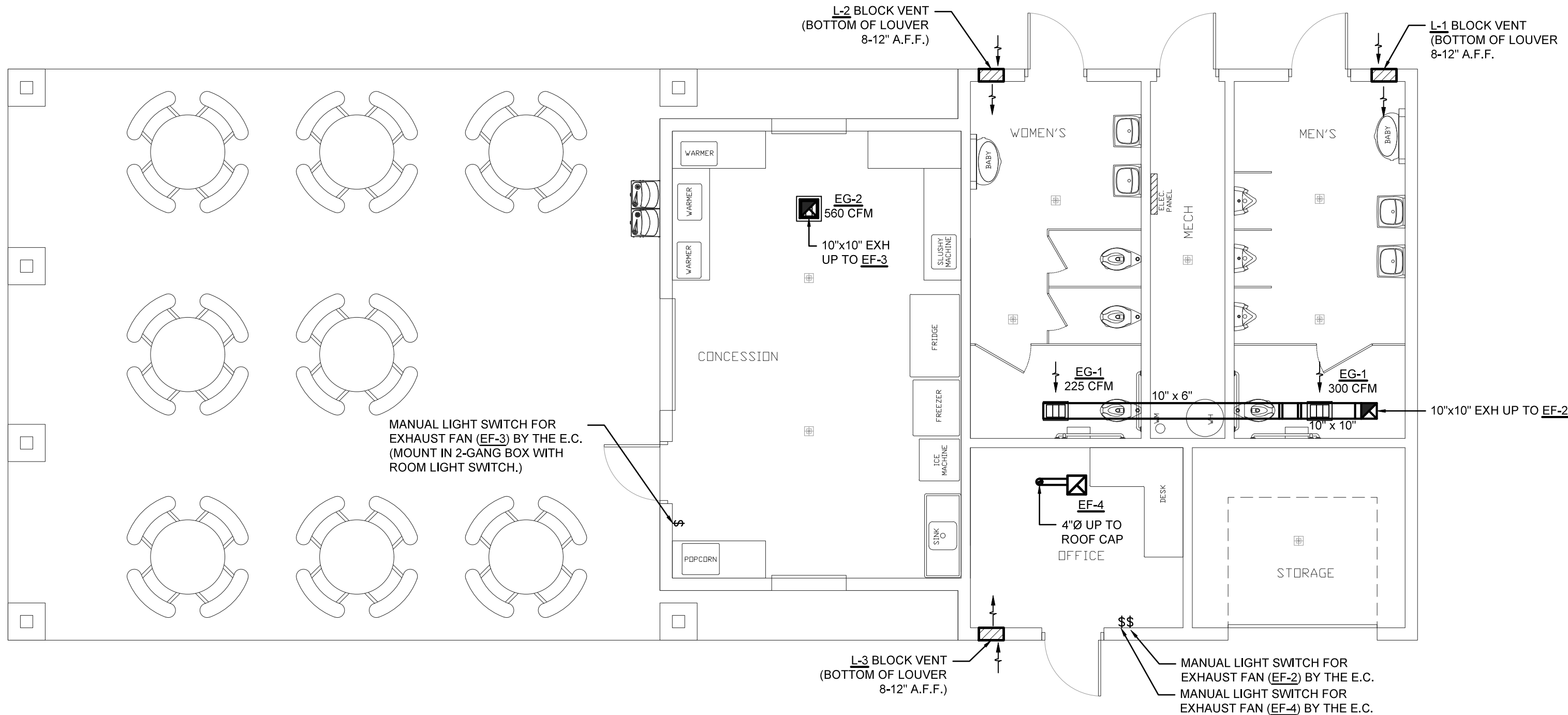
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METHANE EXTRACTION
MECHANICAL SCHEDULE

DATE	REVISION	DESCR.

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1 MECHANICAL PLAN VIEW
20/34 SCALE: 3/16" = 1'-0" N



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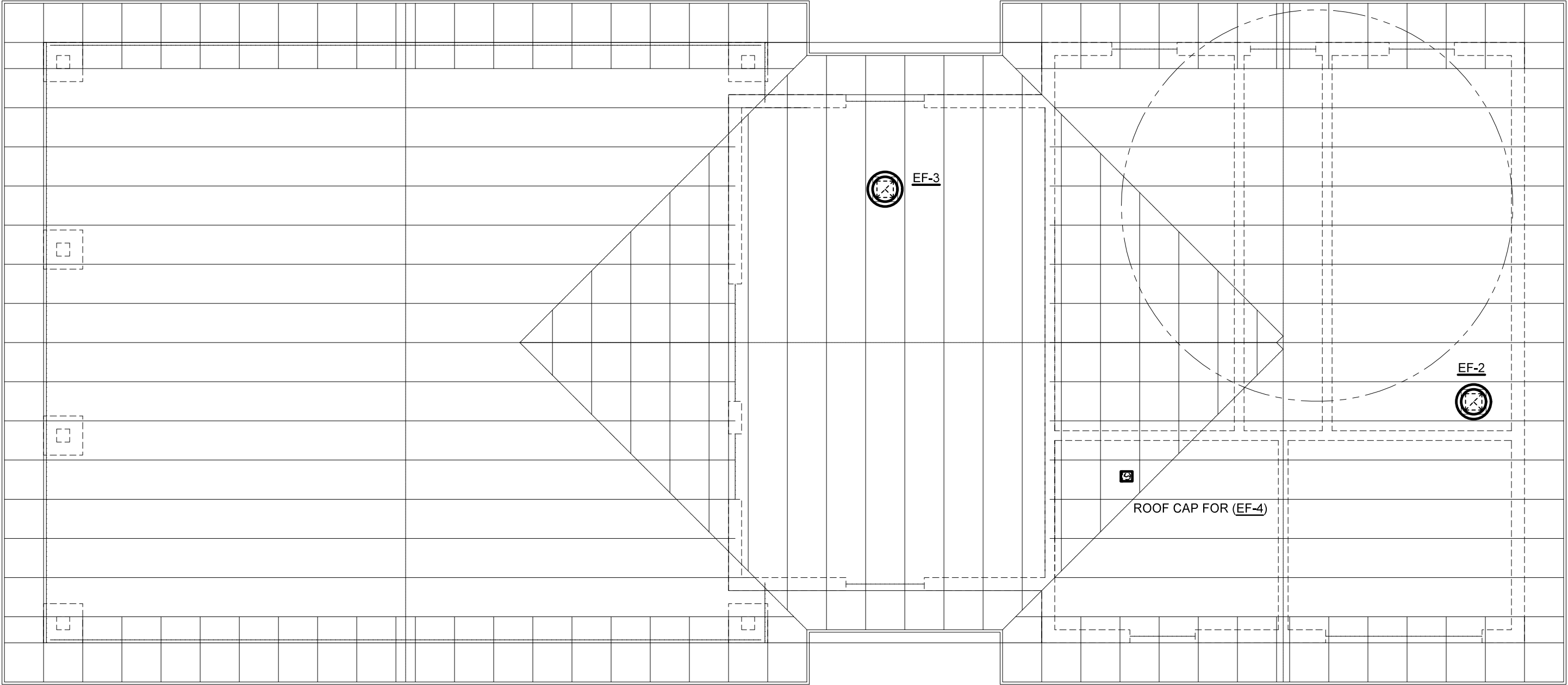
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MECHANICAL PLAN VIEW

DATE	REVISION	DESCR.	21 36



1
21/34

MECHANICAL ROOF VIEW
SCALE: 3/16" = 1'-0"

N



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MECHANICAL ROOF VIEW

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POWER VENTILATORS

MARK	MODEL	SERVICE	SERVES ROOM NO./AREA	CONTROL	FAN STYLE	CFM	Total S.P	Discharge Direction	Roof - Wall Opening	FAN			ELECTRICAL					MAX. WEIGHT	ACCESSORIES/ OPTIONS	REMARKS
										RPM	DIA.	DRIVE	H.P.	VOLT	PHASE	FLA	MOP			
EF-2	G-090-VG	General Ventilation	Toilet Rooms	Manual Switch in Office	Centrifugal Fan	525	0.125"	Downdraft	13.5" x 13.5"	1,250	9"	Direct	1/10	120	1	1.38	15	38#	2, 3, 6, 7	A
EF-3	G-090-VG	General Ventilation	Concession Space	Manual Switch in Concessions	Centrifugal Fan	560	0.125"	Downdraft	13.5" x 13.5"	1,300	9"	Direct	1/10	120	1	1.38	15	38#	2, 3, 6, 7	A

Based on products by Greenheck. Equal products will be acceptable.

ACCESSORIES/OPTIONS:

- 1. Roof Curb for Flat Roof
- 2. Roof Curb for Pitched Roof
- 3. Gravity Backdraft Damper
- 4. Motorized Backdraft Damper
- 5. Hinged Gubbase
- 6. Insect Screen
- 7. Combination Disc. Switch/Variable Speed Control
- 8. Disconnect Switch

REMARKS:

- A. Supply fan with ECM motor and integral variable speed control.

CABINET EXHAUST FANS

MARK	MANUFACTURER'S MODEL NO.	LOCATION	CFM	Discharge Duct Size	TOTAL S.P.	TYPE	MAX. SONES	CONTROL/ INTERLOCK	FAN		ELECTRICAL		ACCESSORIES/ OPTIONS	REMARKS
									RPM	DRIVE	Watts	VOLT/PH		
EF-4	FV-0511VKS2	Office	50	4" ø	0.25"	Integral Grille Flush with Ceiling	<2.0	Manual Control Switch	Std.	Direct	10	120/1	1, 5	A, B

Based on products by Panasonic. Equal products will be acceptable.

ACCESSORIES/OPTIONS:

- 1. Integral Backdraft Damper
- 2. RIS Isolators
- 3. Wall-mounted Control Switch
- 4. Wall Cap
- 5. Roof Cap

REMARKS:

- A. Set fan speed to "low" speed.
- B. Provide a 4 inch roof cap in black painted steel construction.

GRILLES, REGISTERS, AND DIFFUSERS

MARK	MANUFACTURER'S MODEL NO.	SERVICE	Size		Performance		Throw		Type	Construction	Color	Volume Damper	Access. Options	REMARKS
			DUCT	FACE	PD"	NC	FT **	Direction						
EG-1	EGC-15-F23	Exhaust	12" x 8"	14" x 10"	<.05"	<20	---	---	1/2"x 1/2"x 1" Eggcrate	Aluminum	White	Yes		
EG-2	EGC-15-F23	Exhaust	12" x 12"	14" x 14"	<.05"	<20	---	---	1/2"x 1/2"x 1" Eggcrate	Aluminum	White	No		

Based on products by Kreuger. Equal products w ill be acceptable.

** Distance in FT at 100 FPM w ith direction pattern indicated.

ACCESSORIES/OPTIONS:

- 1. Square Plenum Box for Lateral Duct Connection.
- 2. Square-to-round Adapter.
- 3. Infill Panel for 24"x24" Grid System.
- 4. Infill Panel for 24"x48" Grid System.
- 5. 1-hour Radiation Damper.
- 6. Beveled Drop Face.
- 7. Channel Frame for 2'x2' Grid System

REMARKS:

LOUVERS

MARK	MANUFACTURER'S MODEL NO.	SERVING	DIMENSIONS IN INCHES			F. A. SQ FT	APPLICATION	CFM	MAX P.D. "	CONSTRUCTION	ACCESSORIES/ OPTIONS	REMARKS
			WIDTH	HGT.	DEPTH							
L-1	BV100	Men's Toilet Room	15 5/8"	7 3/4"	4"	0.33	Intake	300	<0.10"	Aluminum	1, 2, 3	A
L-2	BV100	Women's Toilet Room	15 5/8"	7 3/4"	4"	0.33	Intake	225	<0.10"	Aluminum	1, 2, 3	A
L-3	BV100	Office	15 5/8"	7 3/4"	4"	0.33	Intake	50	<0.10"	Aluminum	1, 2, 3	A

Based on products by Ruskin. Equal products w ill be acceptable.

ACCESSORIES/OPTIONS:

- 1. Bird Screen
- 2. Insect Screen
- 3. Channel Frame
- 4. Flange Frame
- 5. Extended Sill
- 6. Filter Rack
- 7. Subframe and Removeable Core
- 8. Security Bars

REMARKS:

- A. Provide louver w ith baked enamel painted finish - color choice by Architect from manufacturer's standard colors.



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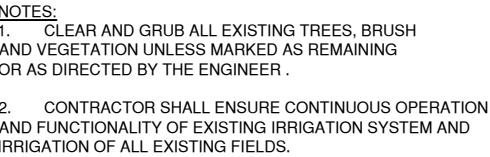
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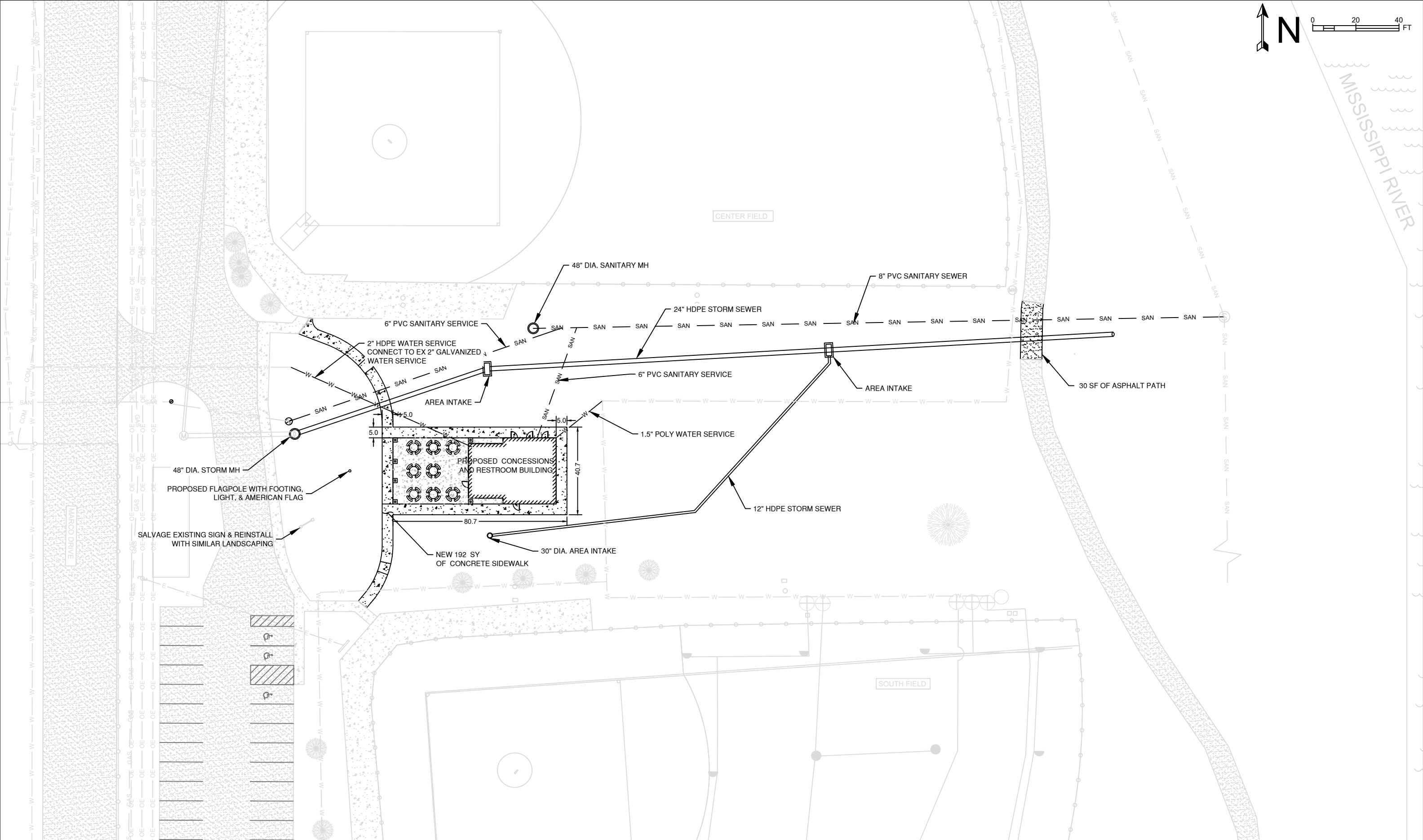
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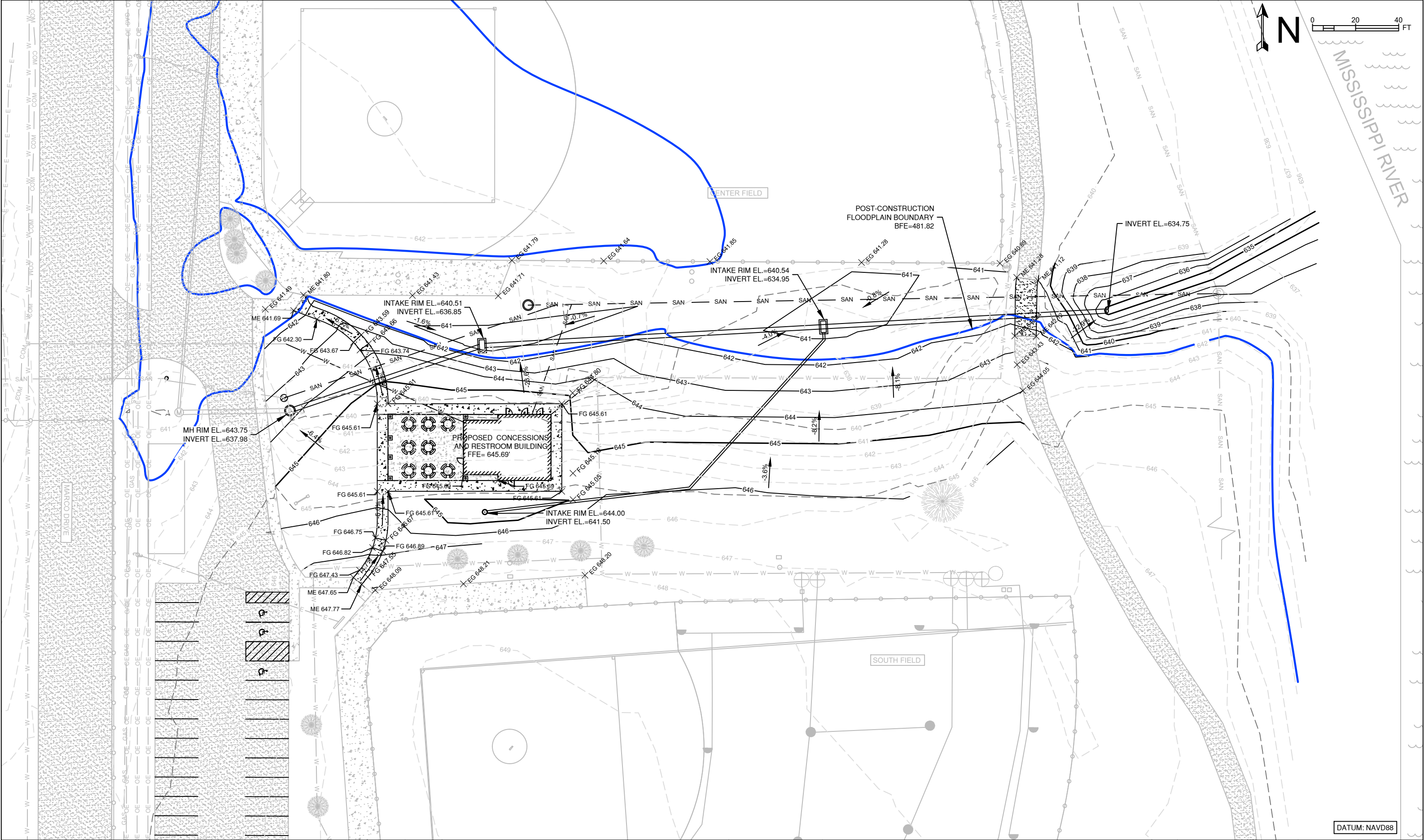
SITE REMOVALS & EXISTING CONDITIONS

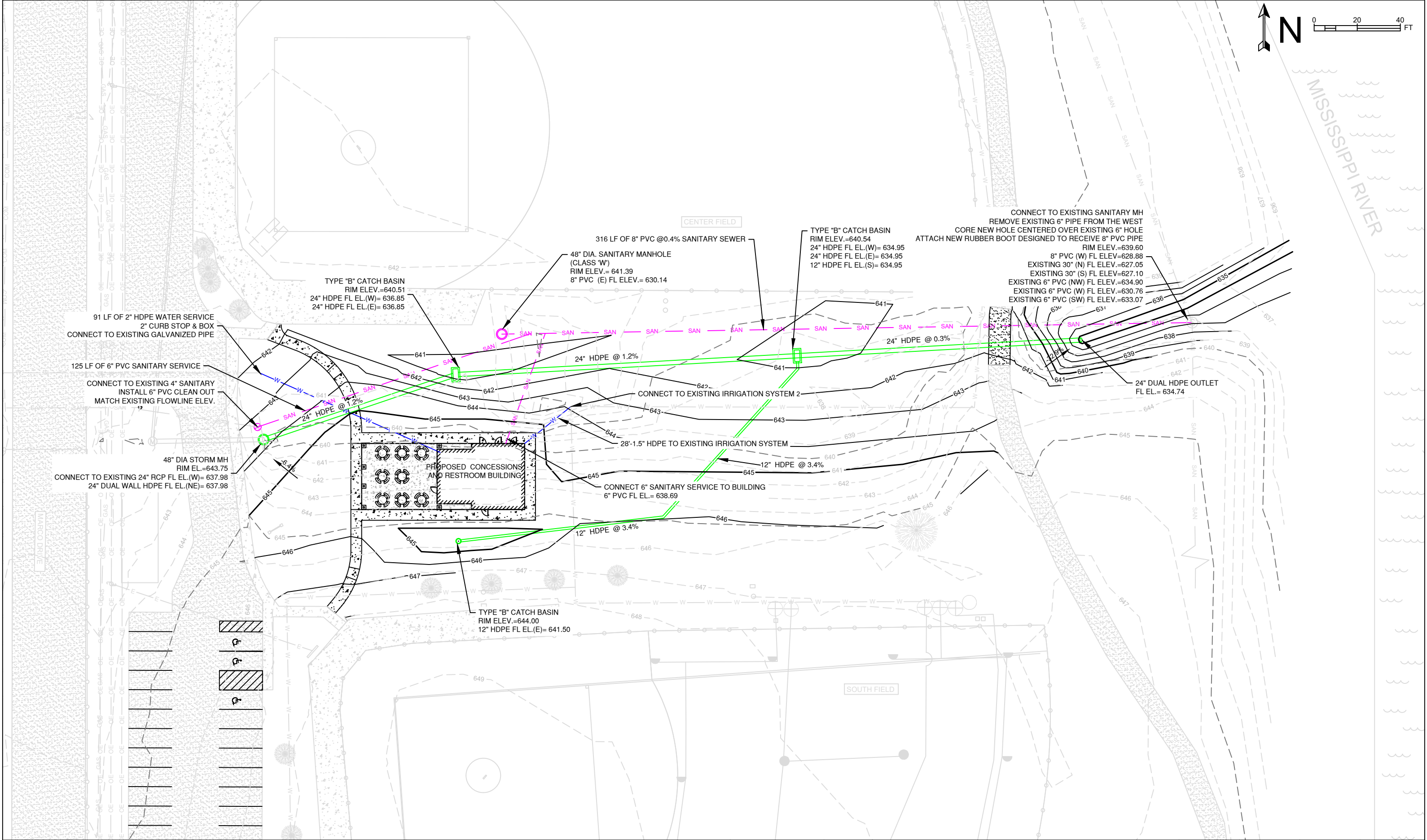
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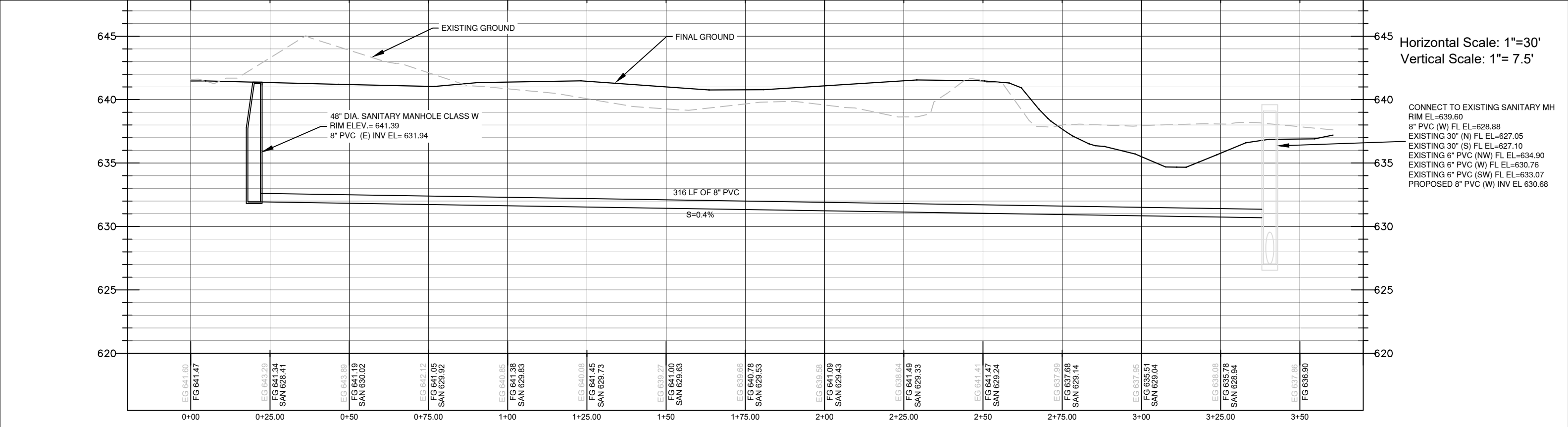
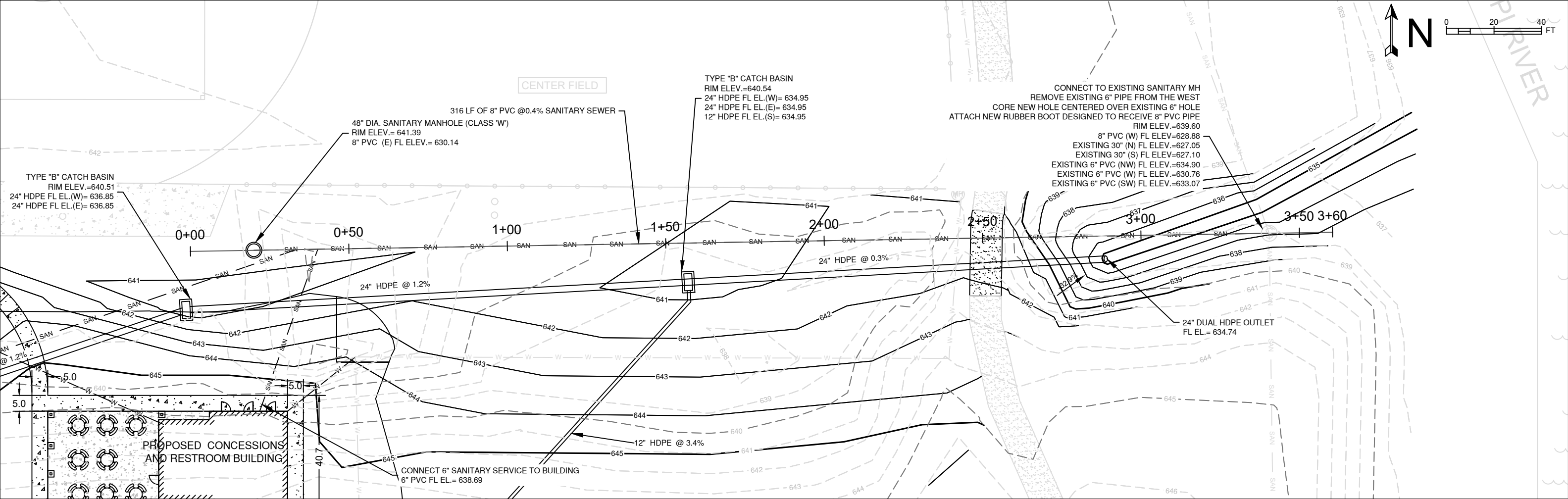
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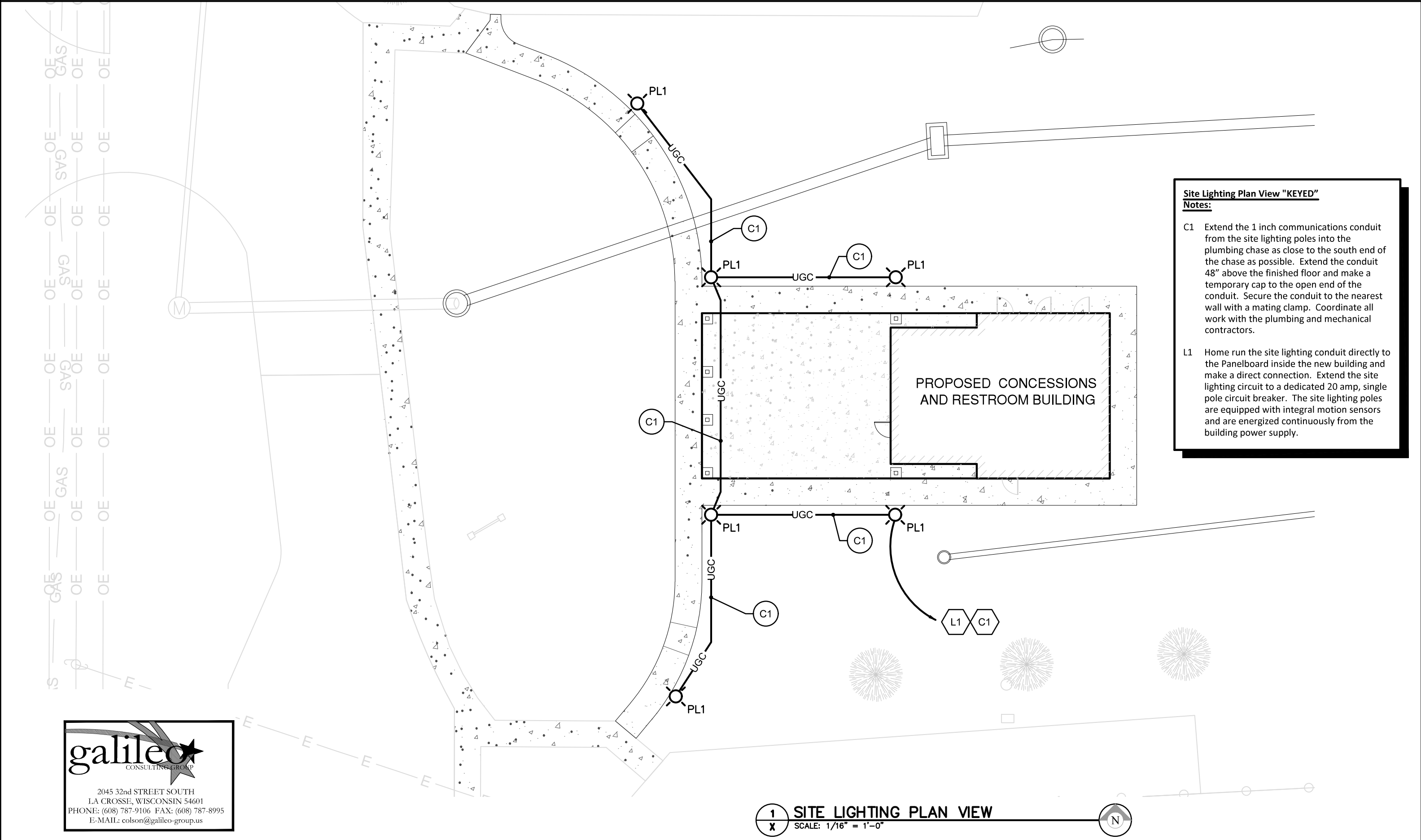
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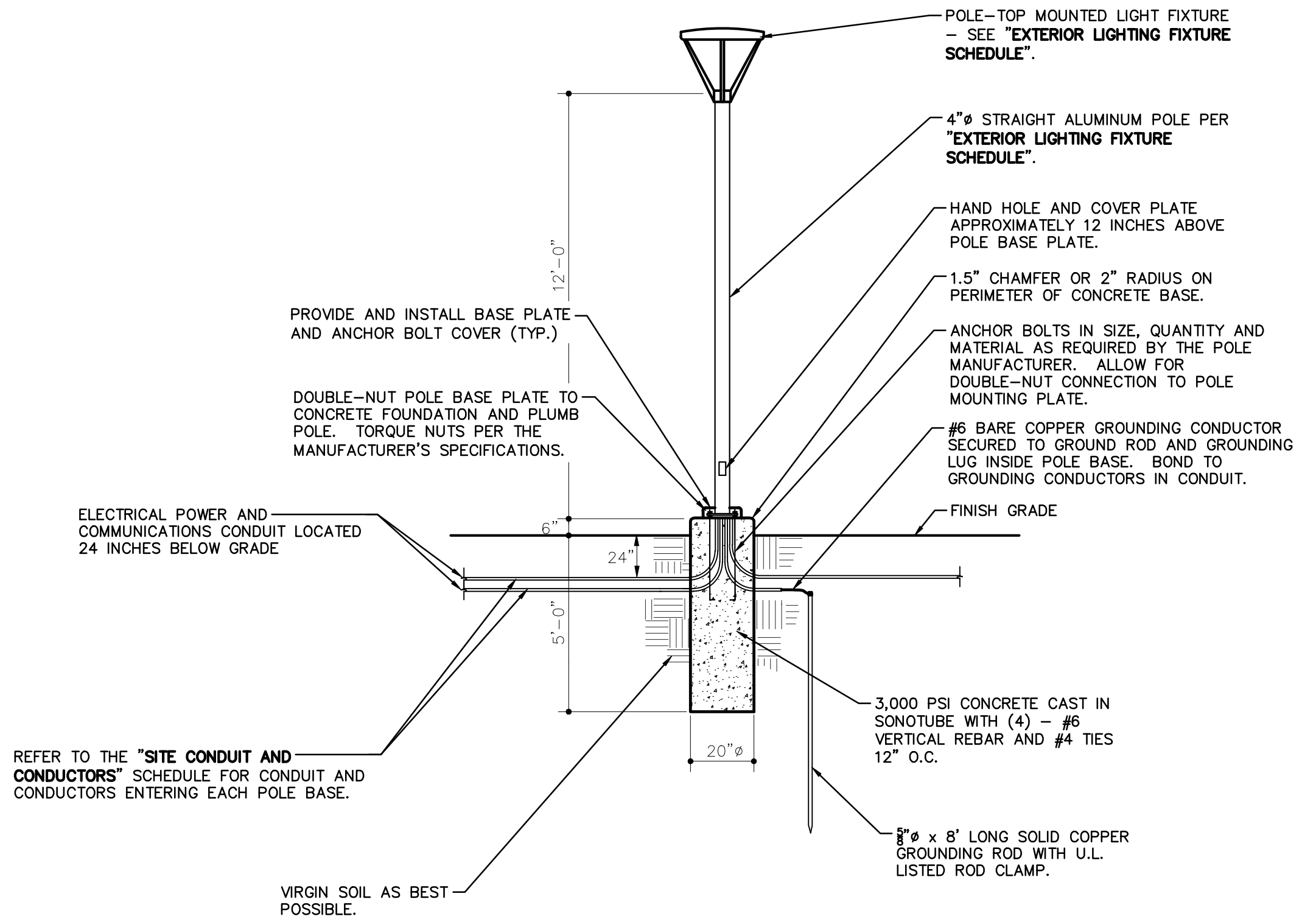




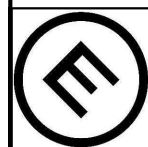
- Site Lighting Plan View "KEYED"**
Notes:
- C1 Extend the 1 inch communications conduit from the site lighting poles into the plumbing chase as close to the south end of the chase as possible. Extend the conduit 48" above the finished floor and make a temporary cap to the open end of the conduit. Secure the conduit to the nearest wall with a mating clamp. Coordinate all work with the plumbing and mechanical contractors.
 - L1 Home run the site lighting conduit directly to the Panelboard inside the new building and make a direct connection. Extend the site lighting circuit to a dedicated 20 amp, single pole circuit breaker. The site lighting poles are equipped with integral motion sensors and are energized continuously from the building power supply.



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1 TYPE 'PL1' POLE-MOUNTED FIXTURE DETAIL
29/34 N.T.S.



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SITE LIGHTING DETAILS

DATE	REVISION	DESCR.	30 36

EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	LUMINAIRE REFERENCE ID	CATALOG NUMBER	LUMINAIRES		VOLT	NO. OF LUMINAIRES PER POLE	LUMINAIRE MOUNTING METHOD
				DESCRIPTION	I.E.S. Distribution Type			
PL1	Invue	(Single Luminaire)	ARB-B3-LED-D1-T5-BK-7030-MS-L20-ARPA4-BK	Post-top mount area light for general use, with low profile shape (EPA <2.0), LED lamp source with integral standard LED driver, black painted finish, with ON-OFF motion sensor. Provide with optional mounting to mate to a 4" OD pole top.	V	120	1	Post-top mount with 2.375" tenon for direct mounting to a 4" pole top.

- REMARKS:
- 1. Equal products will be acceptable, subject to review by the Engineer, if they are submitted during the Bidding process only.
 - 2. Fixture shall be UL Listed for wet locations.
 - 3. Driver is recommended to be multi-tap (120, 208, 240, 277).
 - 4. Provide pole base with full credenza cover. Base cover shall be round in shape.
 - 5. Ensure fixture is mounted such that the Type II distribution is aligned parallel to the walkway.
 - 6. Provide this fixture with duplex, GFCI receptacle, including weather-proof cover plate.

EXTERIOR LIGHTING FIXTURE SCHEDULE (continued)

LIGHT SOURCE				POLES										REMARKS
TYPE	LIGHT OUTPUT	COLOR TEMP.	INPUT WATTAGE	WIND VELOCITY DESIGN	POLE MATERIAL	POLE MOUNTING METHOD	DIRECT BURIAL DEPTH	FOUND. DETAIL	POLE SHAPE	TOTAL POLE LENGTH	MFG.	CATALOG NO.	COLOR	
L.E.D.	8,500 Lumens	3,000 K	99	90 MPH	Aluminum	20 Inch Diameter Concrete Base			Round Straight	12'	Eaton	RSA4T12N-Y-5-X-E-G	Black	1, 2, 3, 4, 5

SITE CONDUIT AND CONDUCTORS

CONDUIT RUN IDENTIFICATION	LINE VOLTAGE CONDUIT AND CONDUCTORS								
	CONDUIT SIZE	CONDUIT MATERIAL	LIGHTING CONDUCTORS	VOLTAGE	No. of LIGHTING CIRCUITS	POWER CONDUCTORS	POWER CONDUCTOR USE	VOLTAGE	No. of POWER CIRCUITS
C1	1"	Schedule 40 PVC	(2) - #10 XHHW-2 Copper and #10 Copper Grnd. To "PL1" poles	120	1	(None)			

- REMARKS:
- A.
 - B.

SITE CONDUIT AND CONDUCTORS (continued)

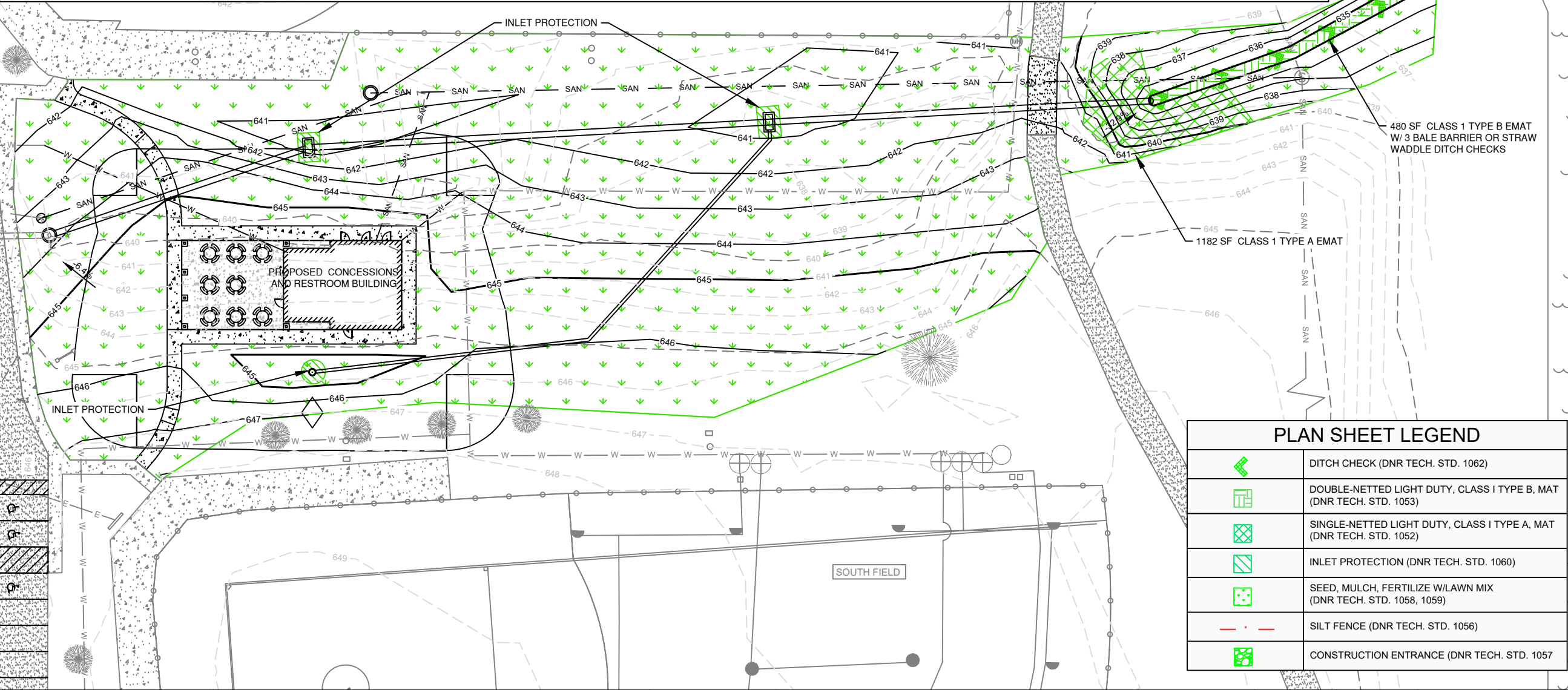
LOW VOLTAGE CONDUIT AND CONDUCTORS							REMARKS
CONDUIT SIZE	CONDUIT MATERIAL	CONDUIT COLOR	LOW VOLTAGE CONDUIT USE	CABLE TYPE #1	CABLE TYPE #2	INSTALL PULL STRING?	
1"	Smoothwall HDPE	Orange	Future CCTV	None in Contract	None in Contract	Yes	



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E-MAIL: colson@galileo-group.us

EROSION CONTROL NOTES

1. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IF FILED WITH THE WDNR.
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
3. SUBMIT PLAN REVISION OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
5. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
6. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
7. REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT [HTTP://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML](http://dnr.wi.gov/topic/stormwater/standards/const_standards.html).
8. INSTALL ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE TECHNICAL STANDARD *STONE TRACKING PAD AND TIRE WASHING #1057* FOR ROCK CONSTRUCTION ENTRANCES(S).
9. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD *STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060*.
10. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD *TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067*.
11. PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER DISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATIVE PUMP CAPACITY IS 70 GPM OR MORE. (Rev. February 2017).
12. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. PERFORM DEWATERING AND ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD *DE-WATERING #1061*. (Rev. February 2017).
13. COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD *SEDIMENT BASIN #1064* AND *SEDIMENT TRAP # 1063*.
14. CONSTRUCT AND PROTECT THE BIOINFILTRATION BASIN AND VEGETATION FROM RUNOFF AND SEDIMENT DURING CONSTRUCTION. REFERENCE THE WDNR TECHNICAL STANDARD *BIORETENTION FOR INFILTRATION # 1004*.
15. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD *SILT FENCE #1056*. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
16. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD *DITCH CHECKS #1062*.
17. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD *INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071*.
18. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
19. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
20. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
21. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE ENGINEER. SEPARATE SWEEPED MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
22. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD *DUST CONTROL ON CONSTRUCTION SITES # 1068*.
23. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
24. COORDINATE WITH ENGINEER TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
25. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I, TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD *NON-CHANNEL EROSION MAT #1052*.
26. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I, TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD *CHANNEL EROSION MAT #1053*.
27. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
28. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE-SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: [HTTP://DNR.WI.GOV/BOTW/](http://dnr.wi.gov/botw/)
29. REFER TO THE SPILL PLAN, IF APPLICABLE, WHEN THERE IS A DISCHARGE OF SEDIMENT AND/OR OTHER CONTAMINANTS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATER OF THE STATE.
30. REFER TO THE FRAC OUT PLAN, IF APPLICABLE, WHEN AN INADVERTENT DISCHARGE OF DRILLING FLUIDS ("FRAC OUT") OCCURS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATERS OF THE STATE.
31. INSTALL AND MAINTAIN A CONCRETE WASHOUT BASIN PER EPA 833-F-11-006: [HTTPS://WWW3.EPA.GOV/NPDES/PUBS/CONCRETEWASHOUT.PDF](https://www3.epa.gov/nepdes/pubs/concretewashout.pdf). REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER.



PLAN SHEET LEGEND

	DITCH CHECK (DNR TECH. STD. 1062)
	DOUBLE-NETTED LIGHT DUTY, CLASS I TYPE B, MAT (DNR TECH. STD. 1053)
	SINGLE-NETTED LIGHT DUTY, CLASS I TYPE A, MAT (DNR TECH. STD. 1052)
	INLET PROTECTION (DNR TECH. STD. 1060)
	SEED, MULCH, FERTILIZE W/LAWN MIX (DNR TECH. STD. 1058, 1059)
	SILT FENCE (DNR TECH. STD. 1056)
	CONSTRUCTION ENTRANCE (DNR TECH. STD. 1057)



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CITY OF LA CROSSE, WI 54601

1/13/2023

EROSION CONTROL PLAN

DATE REVISION DESCR.

32

36



SDD 08E14 Tracking Pad

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

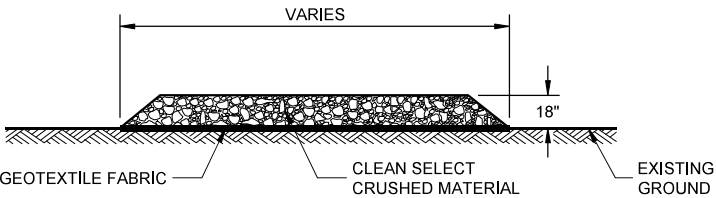
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

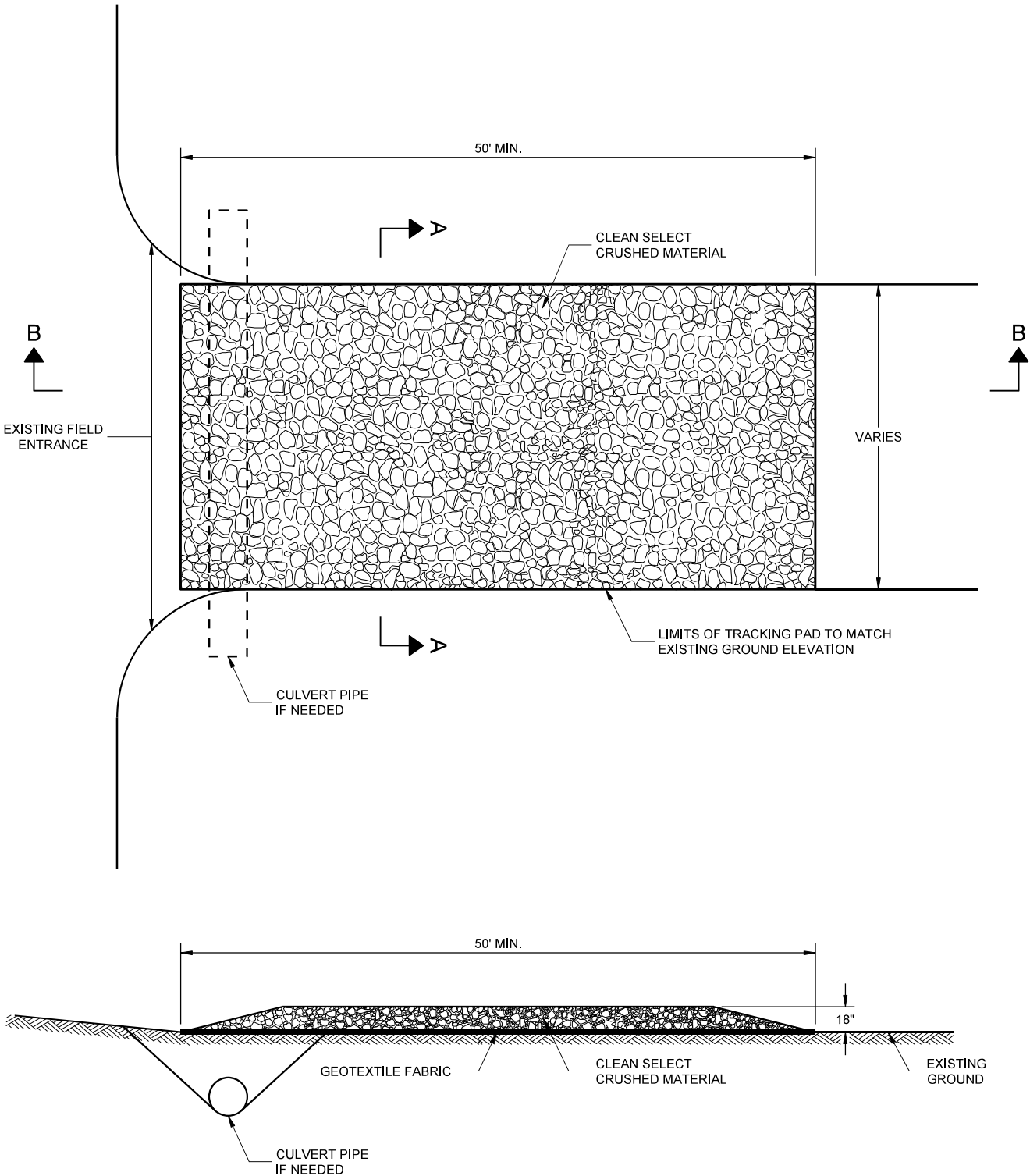
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A



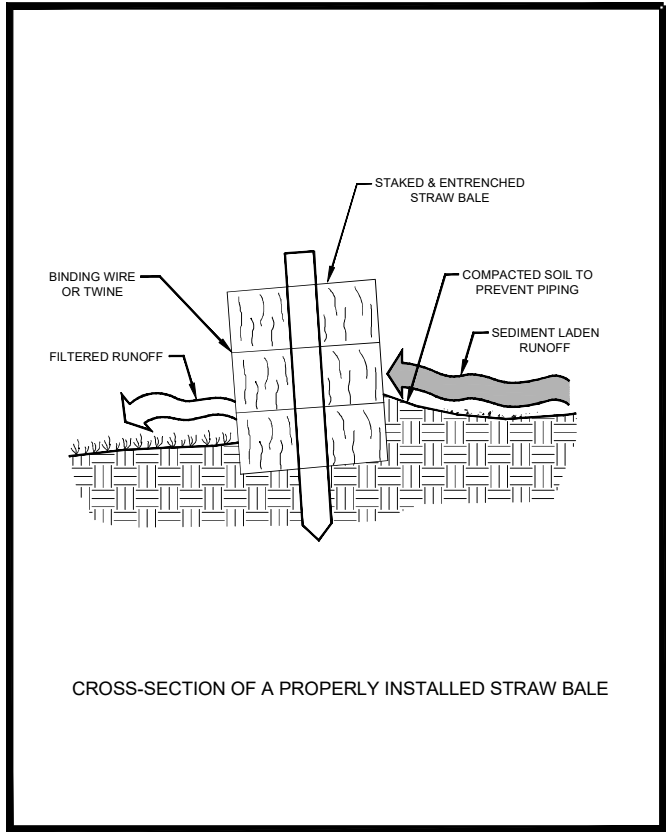
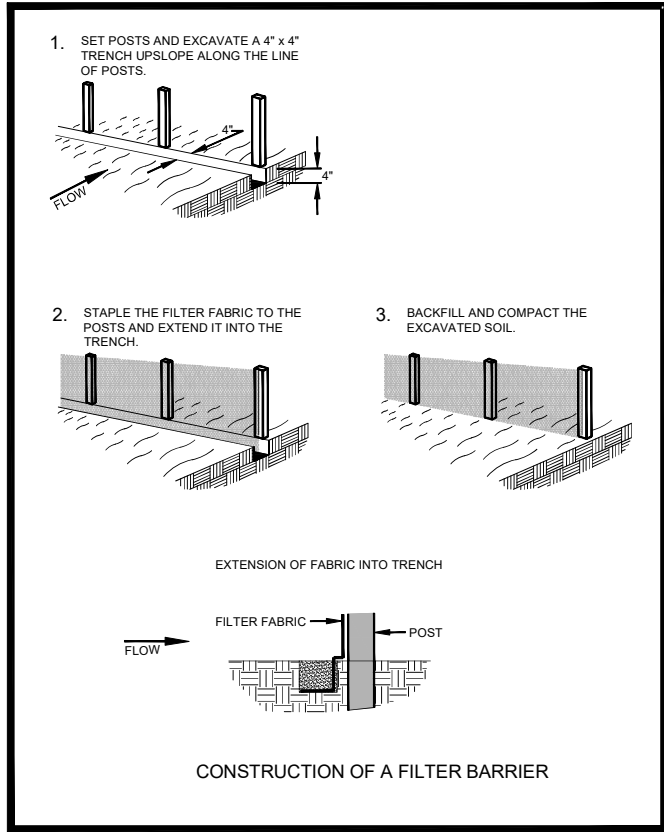
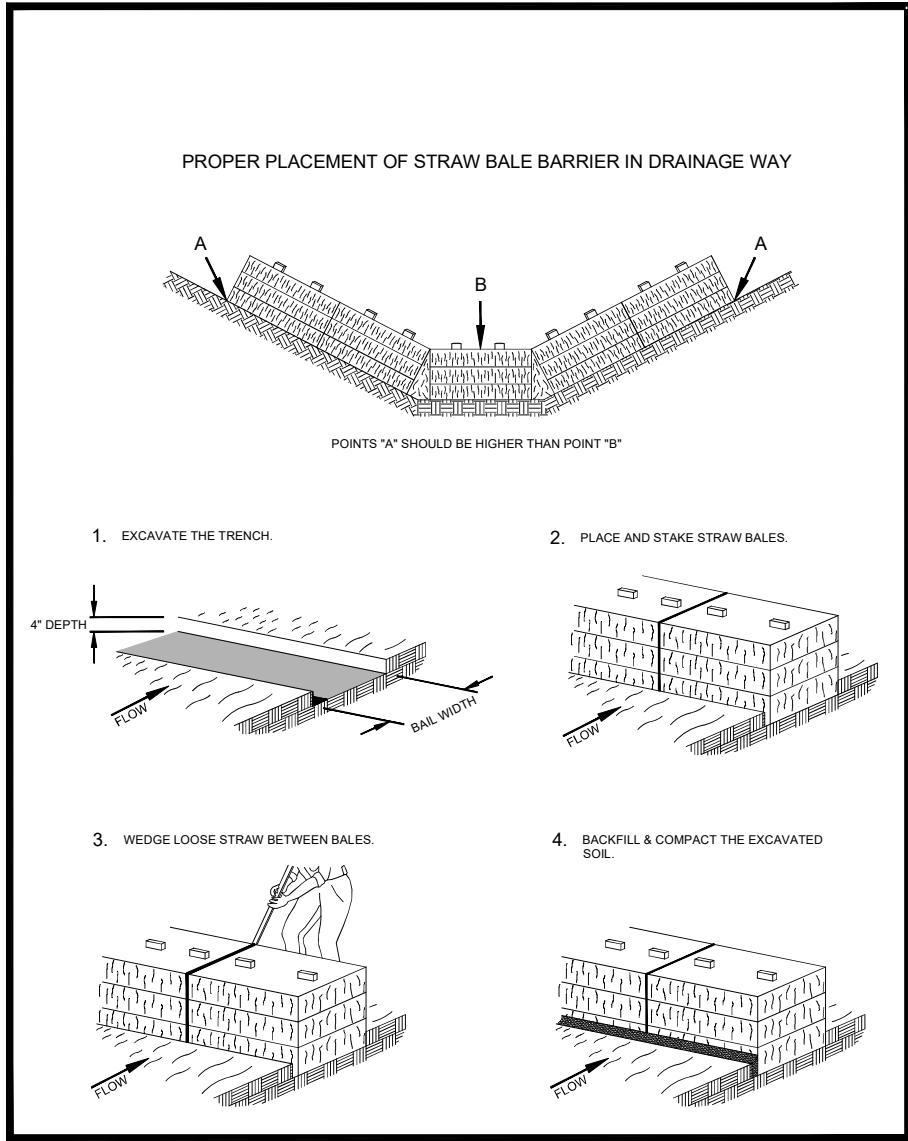
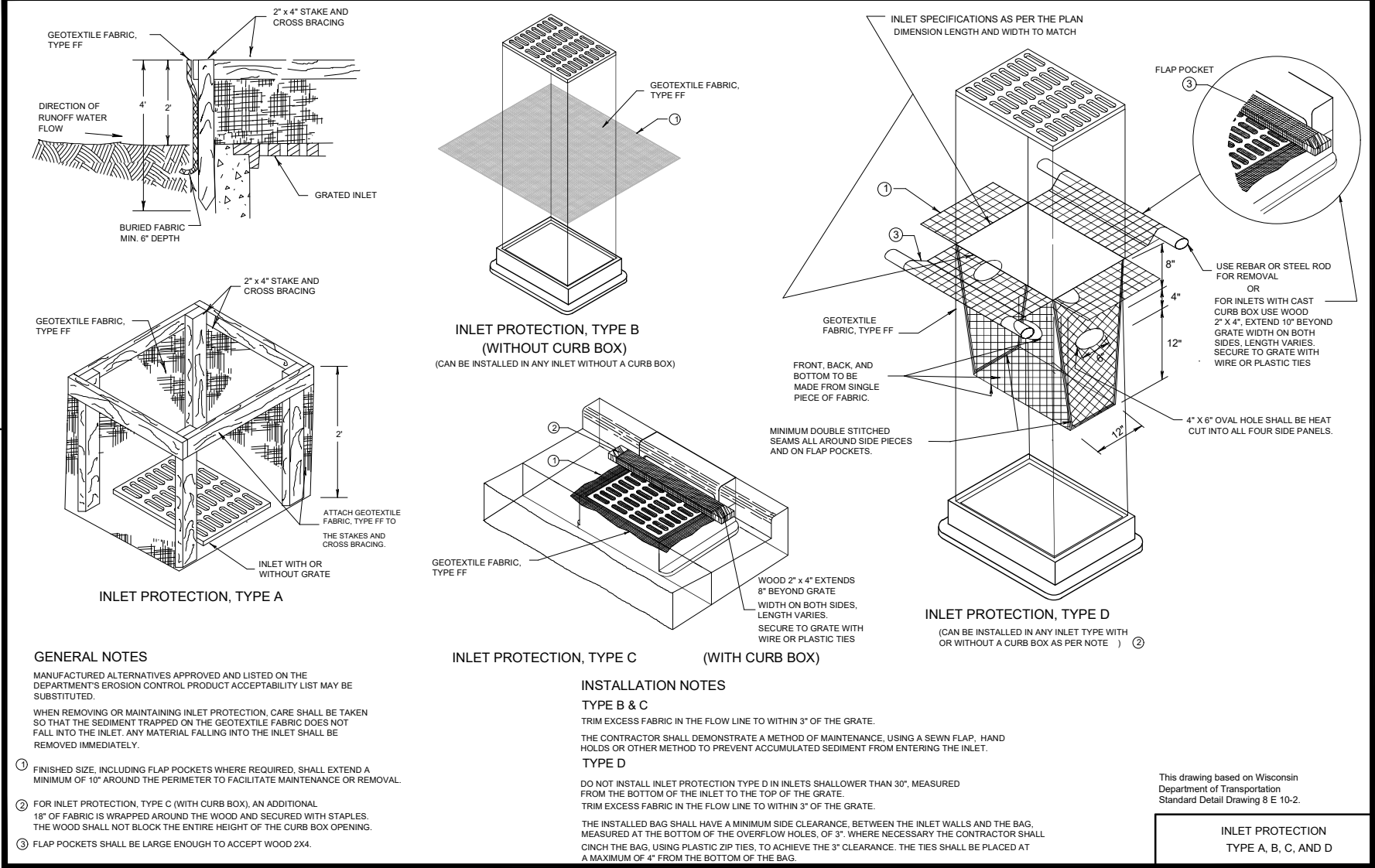
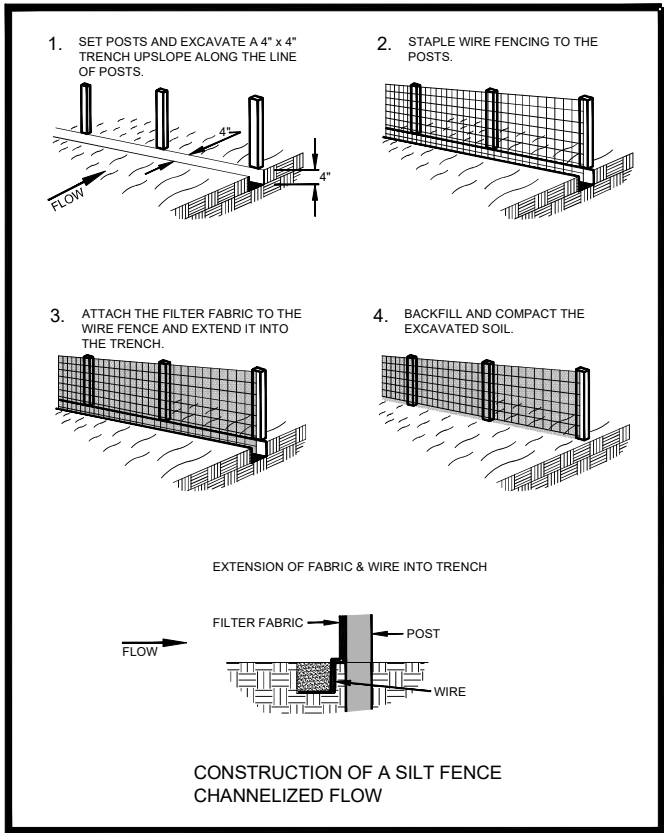
SECTION B - B

TRACKING PAD

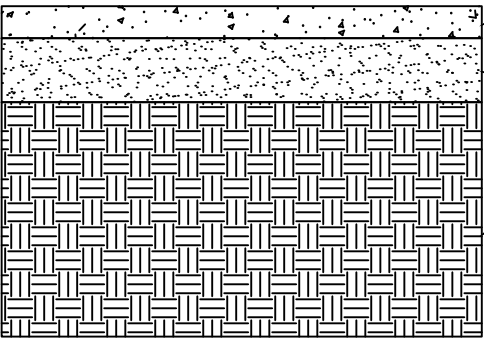
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA



EDF #		DWG NAME: EROSION-CONTROL DWG		
PROJECT No.		EROSION CONTROL DETAILS		
LOCATION		D-1-2		
RESOLUTION		DATE		
ENGINEERING DEPT. City of La Crosse, Wis.				
FIELD BOOK	SURVEYED		BY	DATE
	DRAWN	PRELIMINARY		
NUMBER	CHECKED	FINAL	JMC	2/2009
PAGE	APPROVED			
	REVISIONS			
SHEET NO.		TOTAL SHEETS		

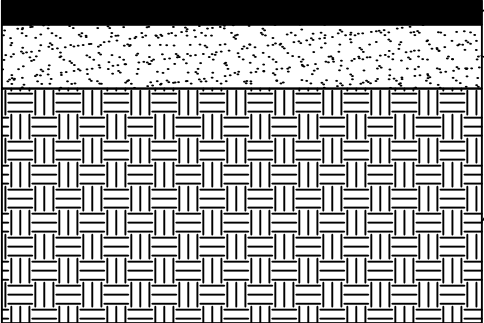


4" CONCRETE SIDEWALK

GRANULAR BACKFILL
DEPTH VARIES
COMPACT TO 100% STANDARD PROCTOR DENSITY

EXISTING GROUND
PROOF ROLL & REPLACE UNSUITABLE MATERIAL WITH
GRANULAR BACKFILL

CONCRETE
SIDEWALK

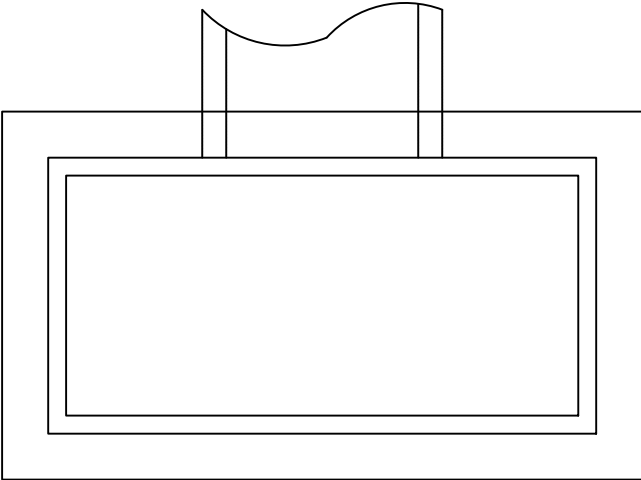


3" HMA PAVEMENT

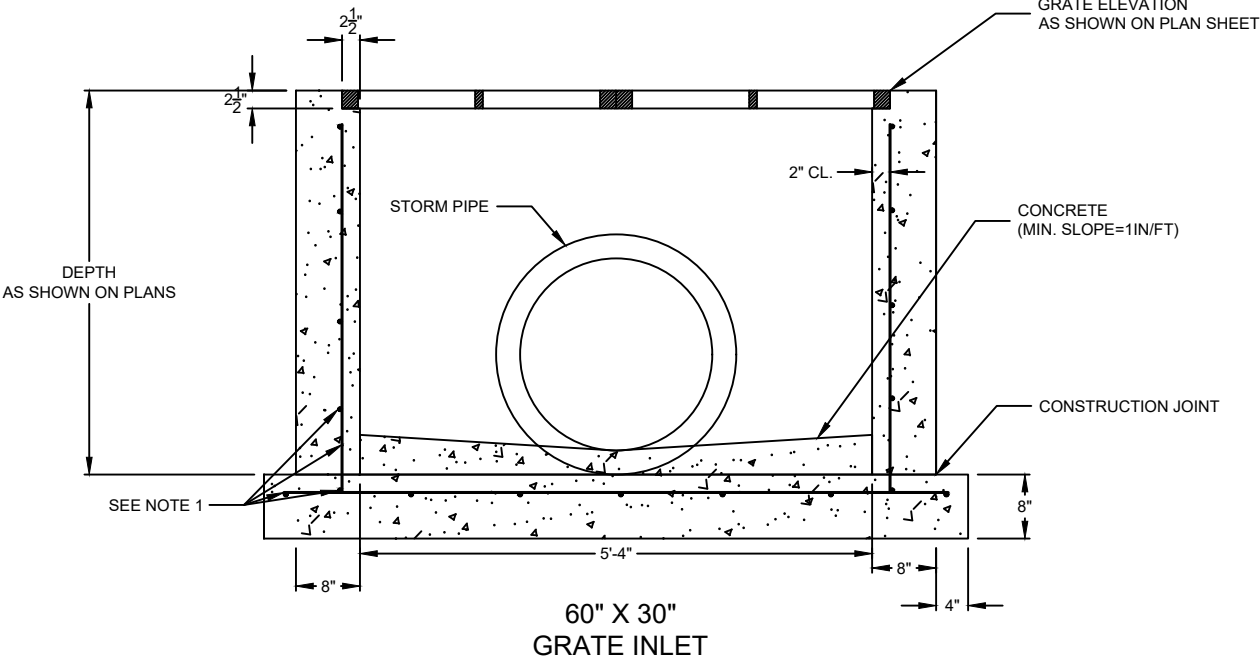
GRANULAR BACKFILL
DEPTH VARIES
COMPACT TO 100% STANDARD PROCTOR DENSITY

EXISTING GROUND
PROOF ROLL & REPLACE UNSUITABLE MATERIAL WITH
GRANULAR BACKFILL

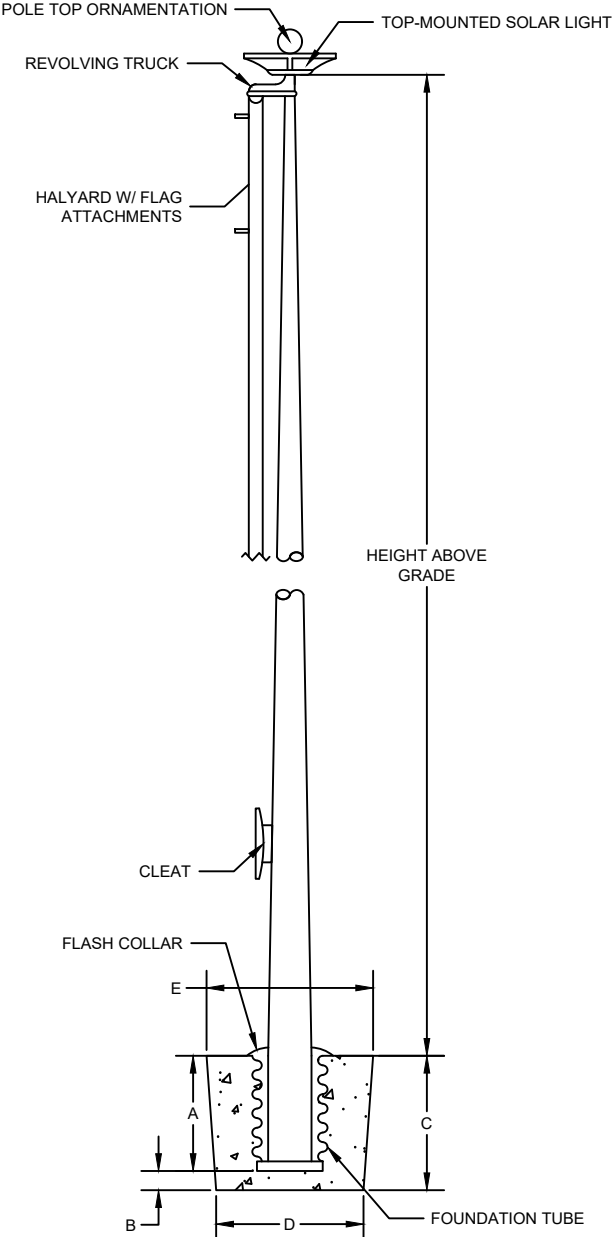
HMA
PATH



PLAN VIEW



60" X 30"
GRATE INLET



FLAG POLE INSTALLATION

FOUNDATION DIMENSIONS

HEIGHT ABOVE GRADE	A	B	C	D	E
20'-0"	3'-0"	0'-6"	3'-6"	2'-0"	2'-6"
25'-0"	3'-0"	0'-6"	3'-6"	2'-0"	2'-6"
30'-0"	3'-0"	0'-6"	3'-6"	2'-0"	30



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PARKS, RECREATION & FORESTRY
CITY OF LACROSSE, WI 54601

1/13/2023

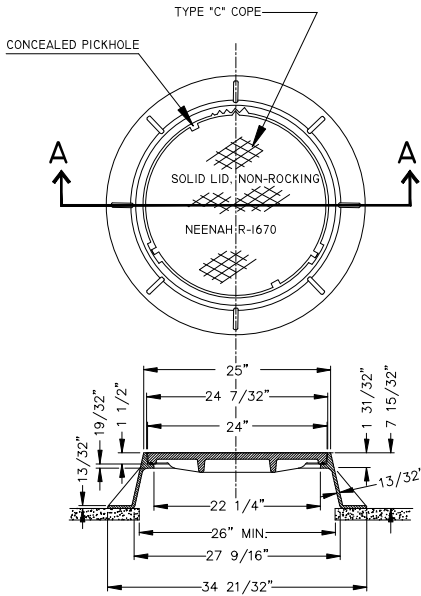
CONSTRUCTION DETAILS

DATE	REVISION	DESCR.

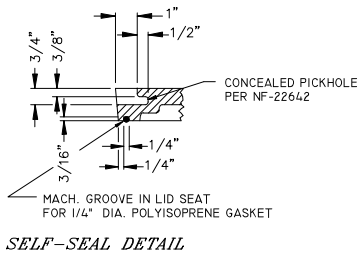
DRAWING
NOT TO SCALE

SEWER PIPE JOINT MATERIALS

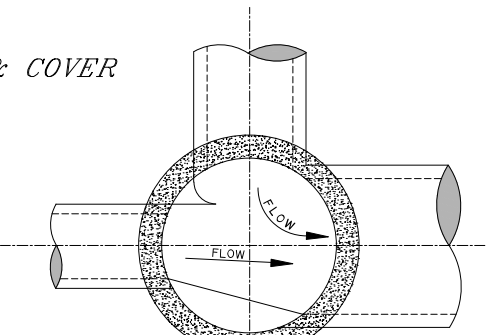
CONCRETE PIPE-RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



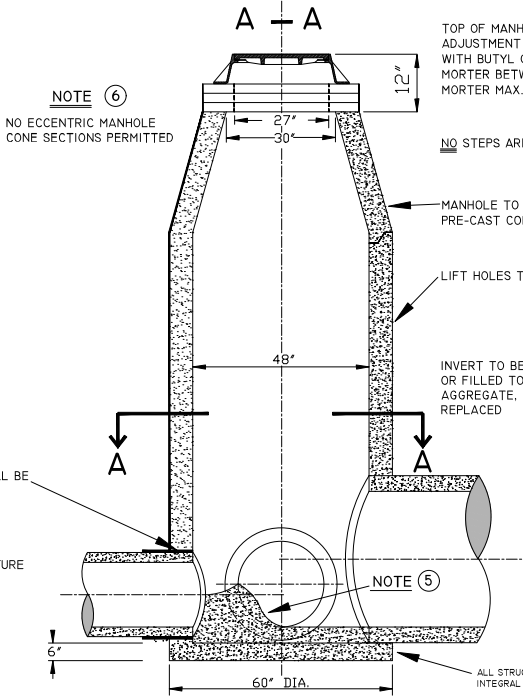
A - A
DETAIL OF MANHOLE FRAME & COVER
(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL



NOTE
OPENING FOR FRAME & COVER SHALL
BE CENTERED ON MANHOLES WITH FLAT TOPS.



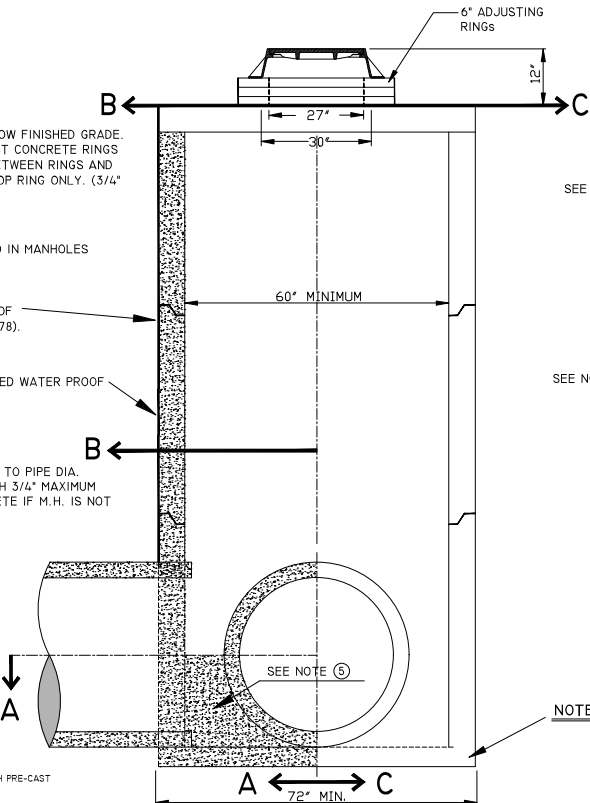
B
D-6



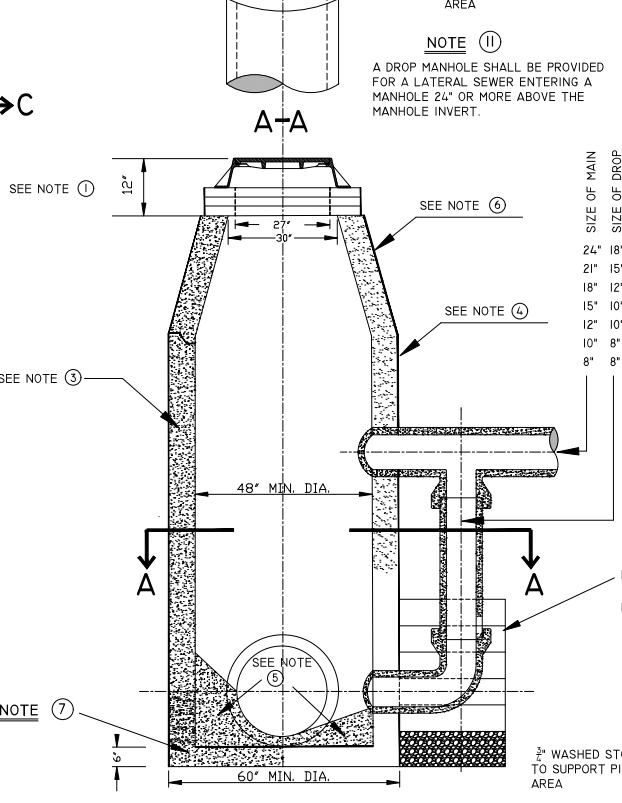
C
D-6
DETAILS OF STANDARD MANHOLE
FOR 30" PIPE OR SMALLER

- NOTE ①
TOP OF MANHOLE TO BE 12" BELOW FINISHED GRADE.
ADJUSTMENT TO BE OF PRE-CAST CONCRETE RINGS
WITH BUTYL GASKETS (ROPE) BETWEEN RINGS AND
MORTER BETWEEN CASTING & TOP RING ONLY. (3/4" MORTAR MAX.)
- NOTE ②
NO STEPS ARE TO BE INSTALLED IN MANHOLES
- NOTE ③
MANHOLE TO BE CONSTRUCTED OF
PRE-CAST CONCRETE (ASTM C-478).
- NOTE ④
LIFT HOLES TO BE MANUFACTURED WATER PROOF
- NOTE ⑤
INVERT TO BE FACTORY MOLDED TO PIPE DIA.
OR FILLED TO DIRECT FLOW WITH 3/4" MAXIMUM
AGGREGATE, 3500 P.S.I. CONCRETE IF M.H. IS NOT
REPLACED

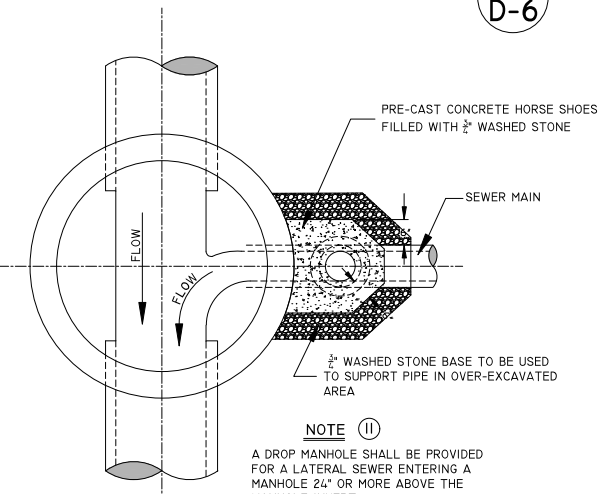
NOTE ⑦
ALL STRUCTURES TO BE MADE WITH PRE-CAST
INTEGRAL FOOTING BASE. MIN. 6"



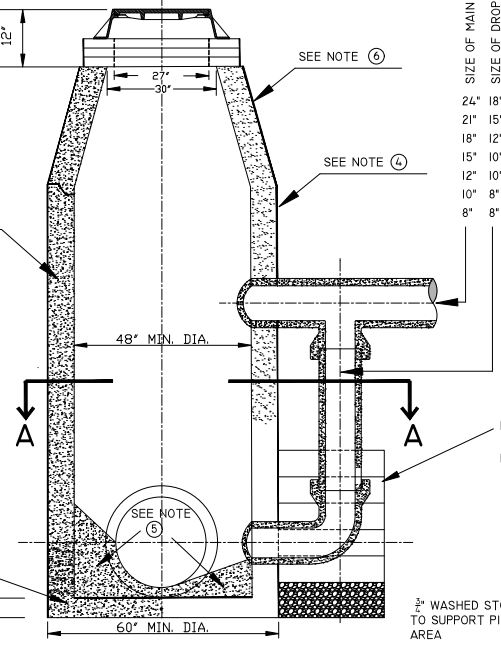
D
D-6
DETAILS OF STANDARD MANHOLE
FOR 36" PIPE OR LARGER



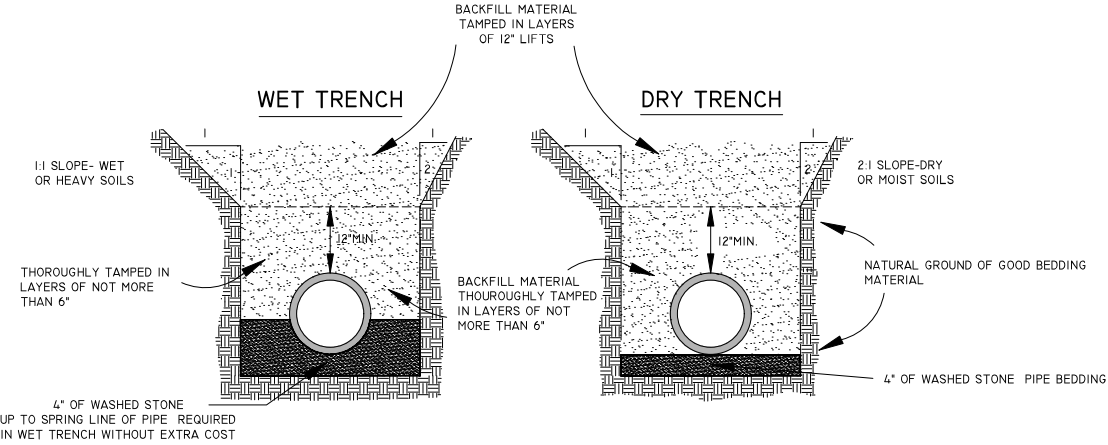
E
D-6
DETAILS OF DROP MANHOLE
FOR 30" PIPE OR SMALLER



NOTE ⑪
A DROP MANHOLE SHALL BE PROVIDED
FOR A LATERAL SEWER ENTERING A
MANHOLE 24" OR MORE ABOVE THE
MANHOLE INVERT.

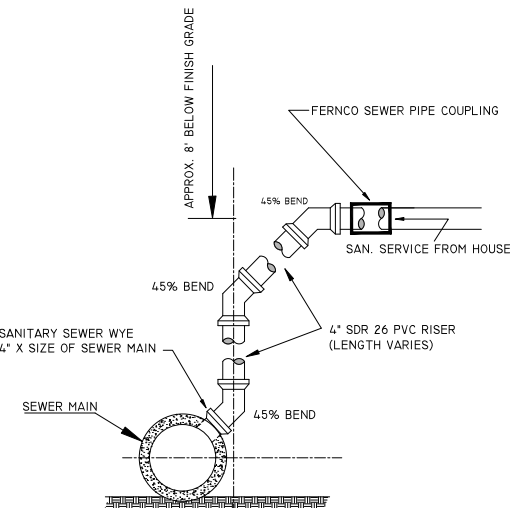


E
D-6
DETAILS OF DROP MANHOLE
FOR 30" PIPE OR SMALLER



DETAILS OF SEWER TRENCHES

A
D-6



DETAILS OF RISER
FOR HOUSE CONNECTION

F
D-6

PROJECT No. SANITARY SEWER DETAILS			
LOCATION D-6			
RESOLUTION D-6 DATE			
ENGINEERING DEPT. City of LaCrosse, Wis.			
FIELD BOOK	SURVEYED	BY	DATE
NUMBER	DRAWN	PROJ. ENGINEER	
	CHECKED	FINAL	
PAGE	APPROVED		
	REVISIONS		
		N.D.F.	3/03 J.M.C. 6/2015
		J.M.C.	9/03 B.F.M. 2/2019
		N.D.F.	4/06 J.M.C. 8/2019
		N.D.F.	12/10 B.F.M. 11/2019
		N.D.F.	4/13
SCALE: NONE	TOTAL SHEETS		
SHEET NO.			

(D-6)sanitary sewer_detail