

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



200 MASON STREET #15
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2023 CARROLL PARK IMPROVEMENTS
PARKS, RECREATION & FORESTRY
CITY OF LA CROSSE, WI 54601

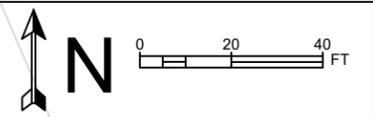
1/13/2023

COVER

DATE	REVISION	DESCR.

1

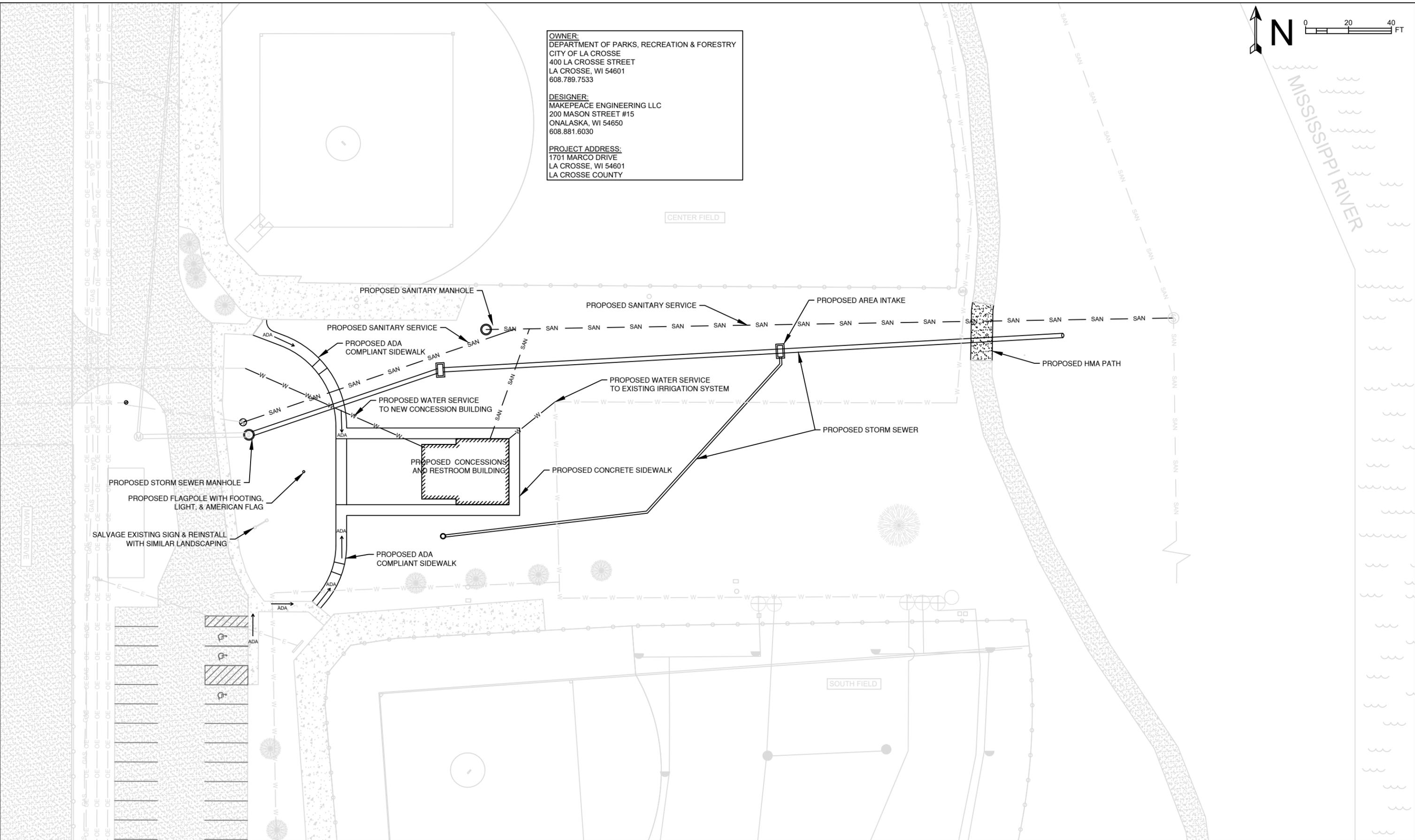
36



OWNER:
 DEPARTMENT OF PARKS, RECREATION & FORESTRY
 CITY OF LA CROSSE
 400 LA CROSSE STREET
 LA CROSSE, WI 54601
 608.789.7533

DESIGNER:
 MAKEPEACE ENGINEERING LLC
 200 MASON STREET #15
 ONALASKA, WI 54650
 608.881.6030

PROJECT ADDRESS:
 1701 MARCO DRIVE
 LA CROSSE, WI 54601
 LA CROSSE COUNTY



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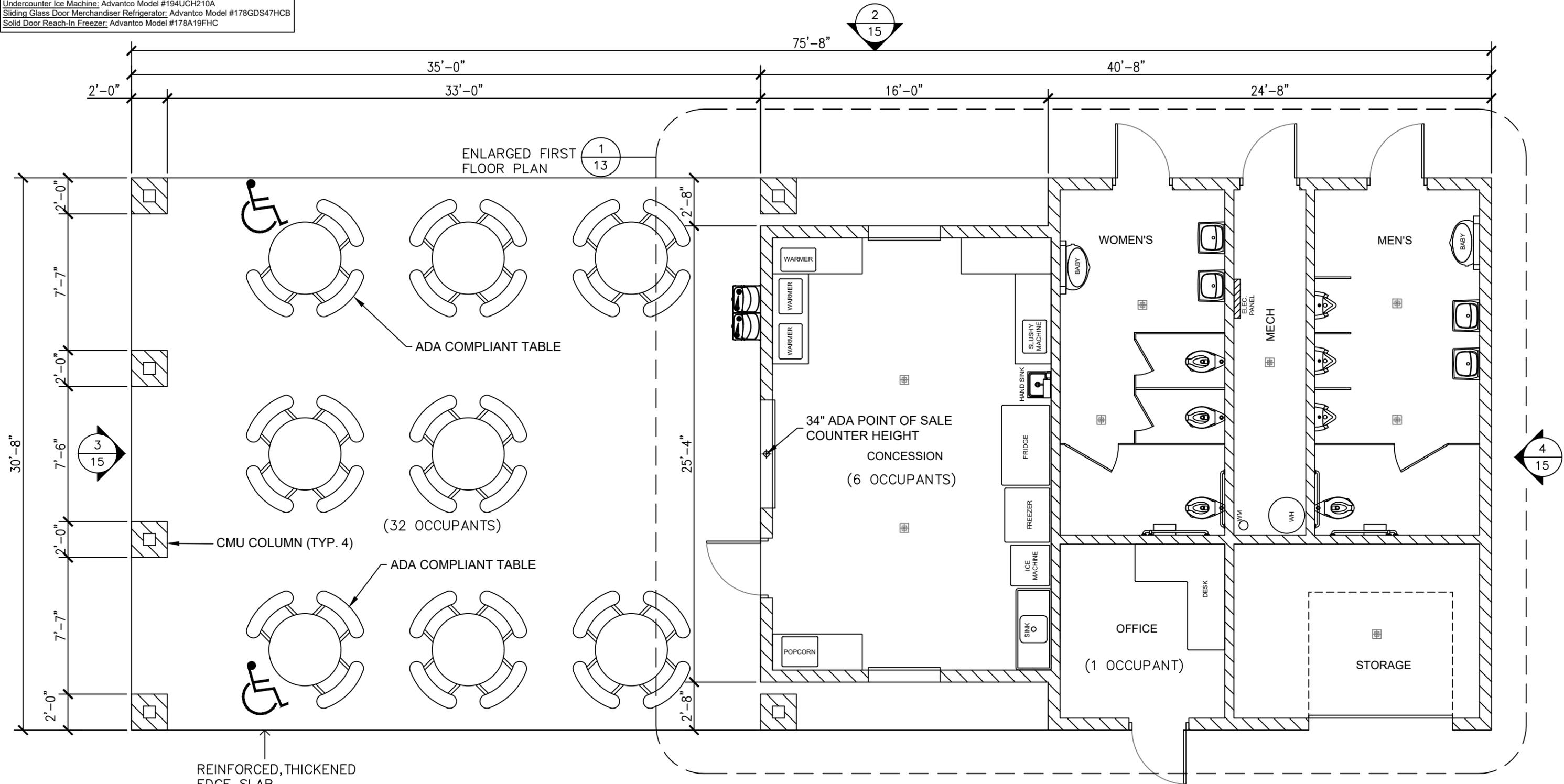
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PROJECT OVERVIEW

DATE	REVISION	DESCR.

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



1 OVERALL BUILDING PLAN
 3/16" = 1'-0"
 N
 1/15

NOTES:

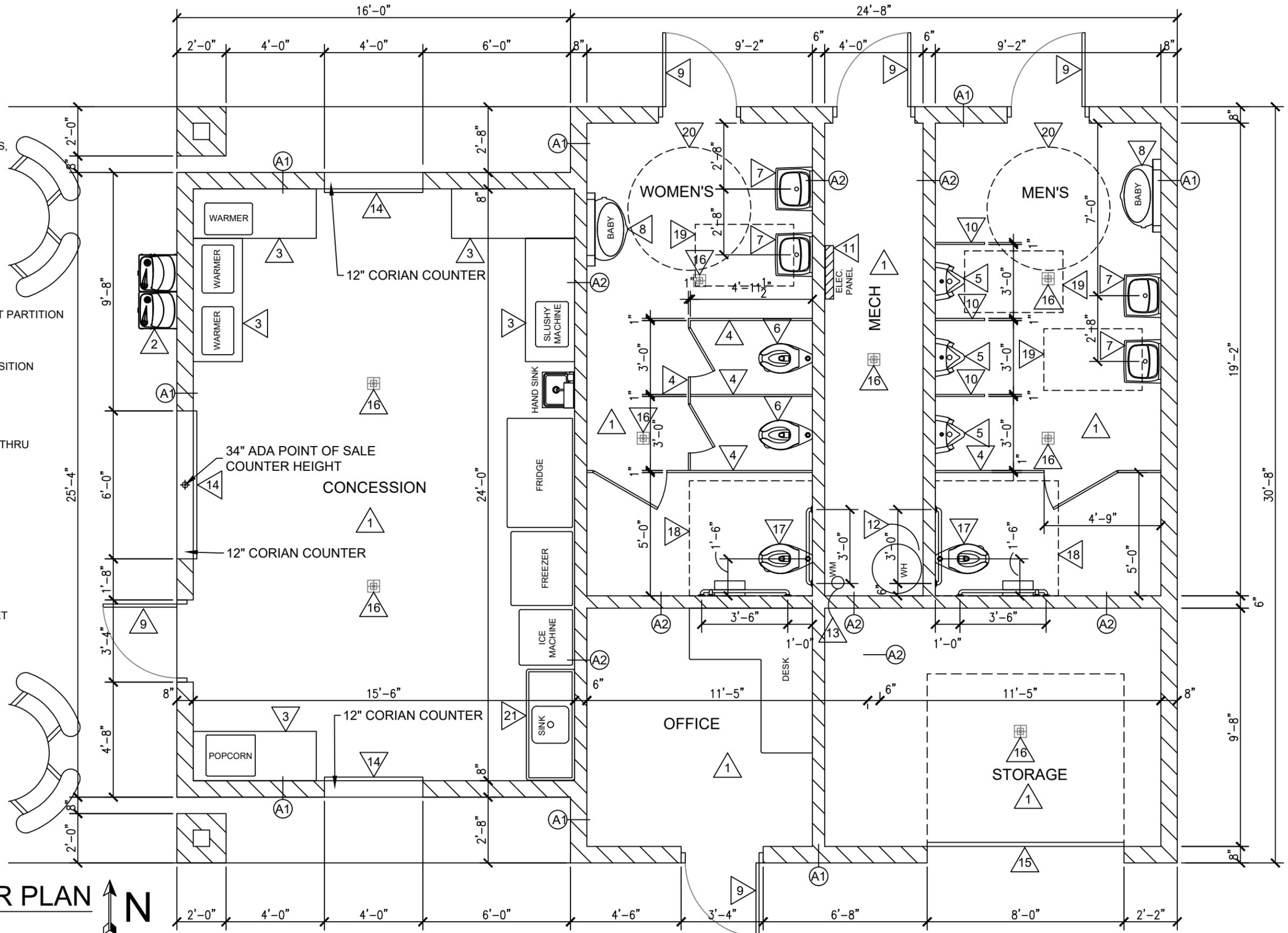
- A. SEE MASTER COLOR SCHEDULE FOR WALL AND SOLID SURFACE PAINT.
- B. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENINGS SHALL BE SEALED AFTER UTILITY INSTALLATION.
- C. PAINT ALL EXPOSED 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:

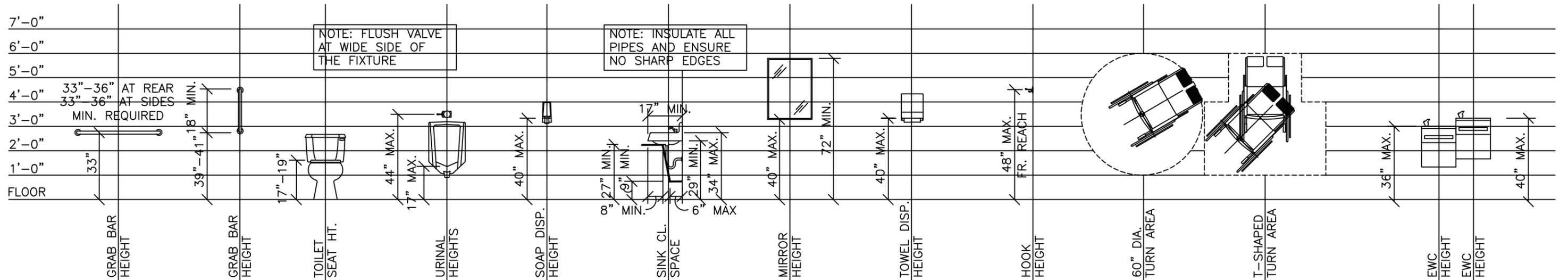
- 1. CONCRETE FLOOR
- 2. WATER FOUNTAIN
- 3. 24" W x 60" L x 38" H STAINLESS STEEL TABLE W/ UNDERSHELF & 4" BACKSPLASH
- 4. FLOOR MOUNTED CEILING BRACED PLASTIC TOILET PARTITION
- 5. URINAL
- 6. WATER CLOSET
- 7. LAVATORY
- 8. BABY CHANGING STATION-34" TO TOP IN DOWN POSITION
- 9. 3'-0" x 7'-0" EXTERIOR 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

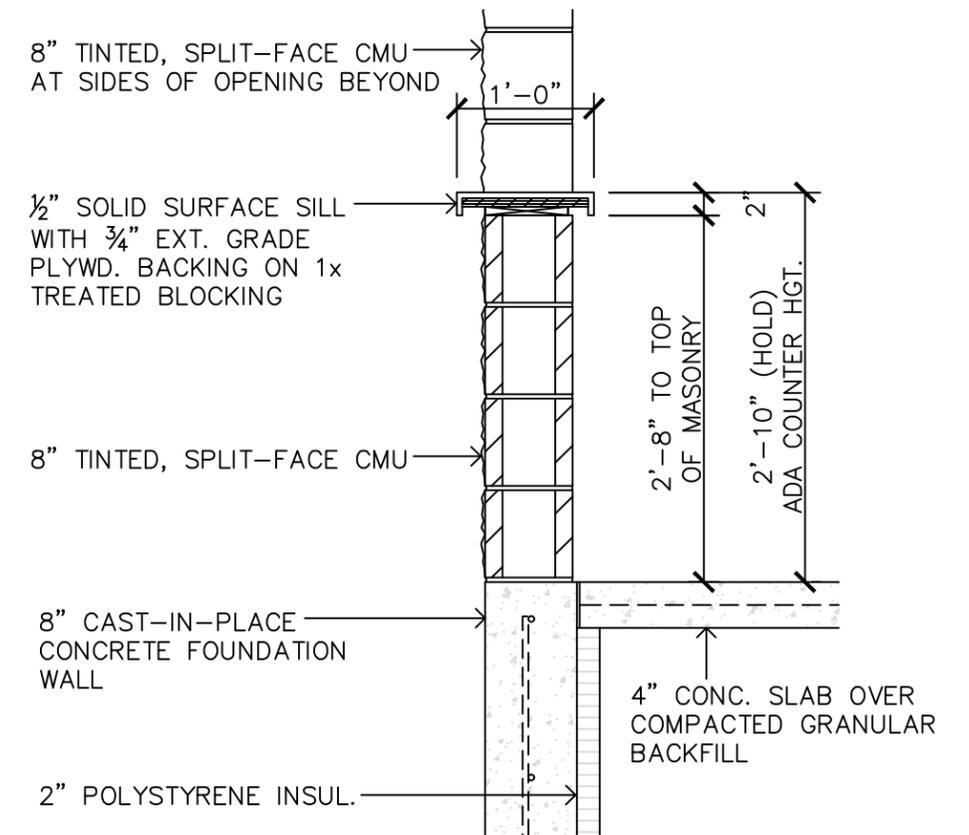
INDICATES CONSTRUCTION NOTE, SEE THIS SHEET



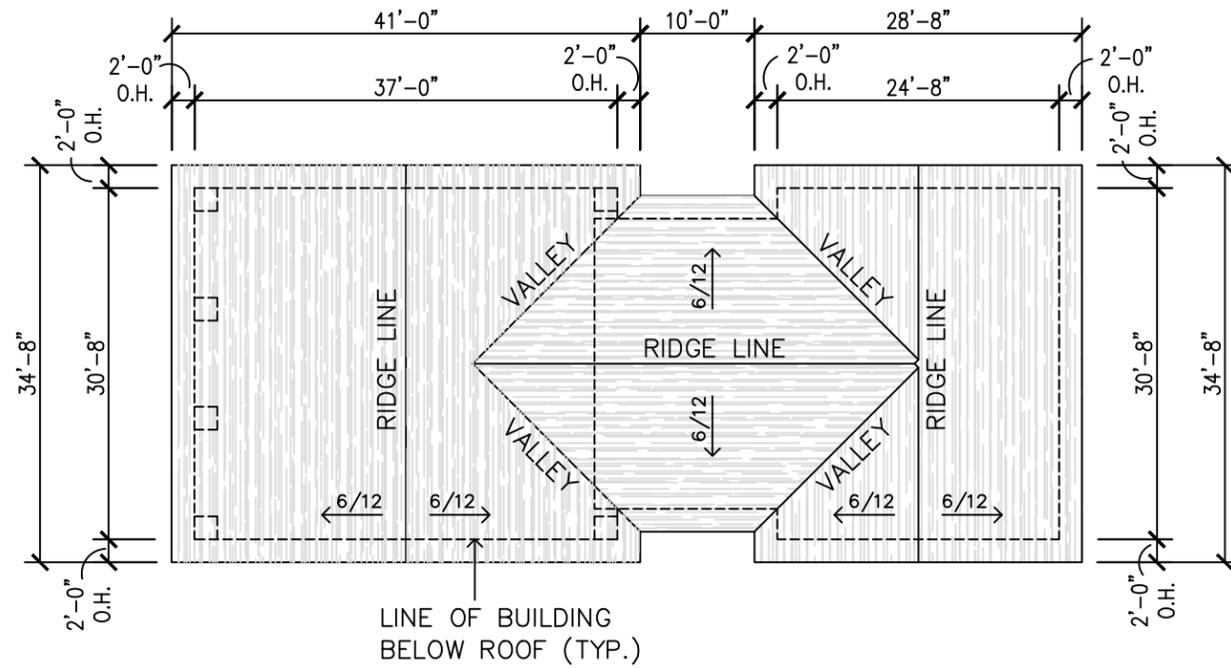
1 ENLARGED FIRST FLR PLAN
 1/4" = 1'-0"
 N



1 TYP. ACCESSIBLE EQUIPMENT MOUNTING HEIGHTS
NO SCALE



2 CONCESSION PASS-THRU DETAIL
3/4" = 1'-0"



1 ROOF PLAN
 $\frac{1}{16}'' = 1'-0''$

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.

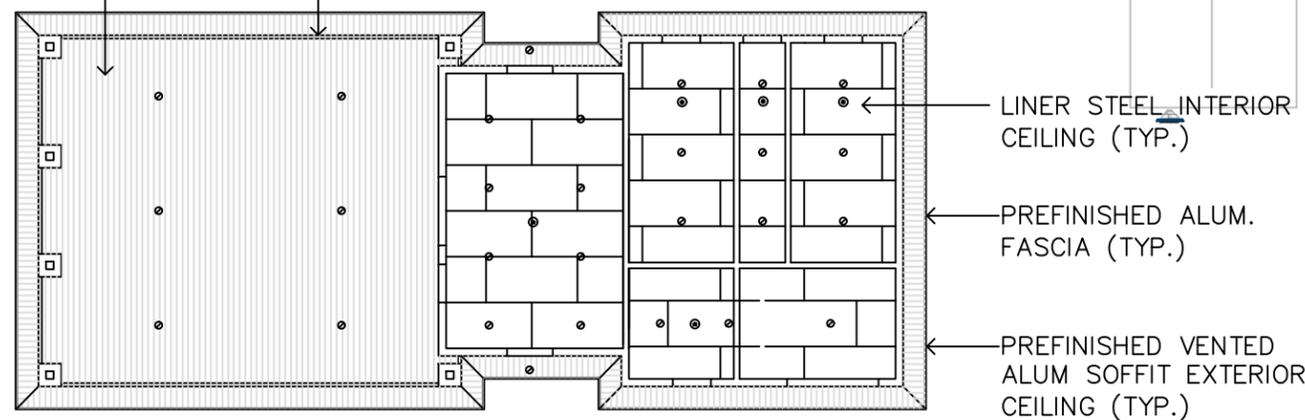
ROOF SYSTEM DESCRIPTION:

STEEL OVER UNDERLAYMENT OVER $\frac{5}{8}''$ SHEATHING ON SLOPED ROOF TRUSSES.

ROOF EQUIPMENT LEGEND:

- INTAKE VENT
- EXHAUST VENT
- PLUMBING VENT

PREFINISHED VENTED ALUM SOFFIT EXTERIOR CEILING (TYP.)
 LVL ROOF SUPPORT BEAM (TYP.)



2 REFLECTED CLG. PLAN
 $\frac{1}{16}'' = 1'-0''$

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.

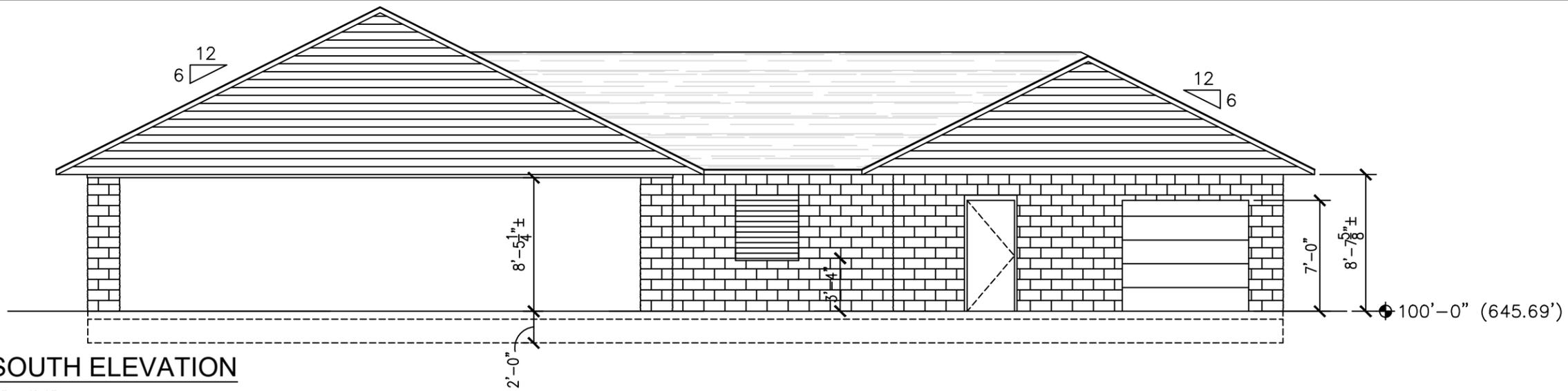
KEY NOTES:

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

REFLECTED CEILING EQUIPMENT LEGEND:

- INTERIOR/EXTERIOR RECESSED CEILING LIGHT FIXTURE - SEE ELECTRICAL

DATE	REVISION	DESCR.

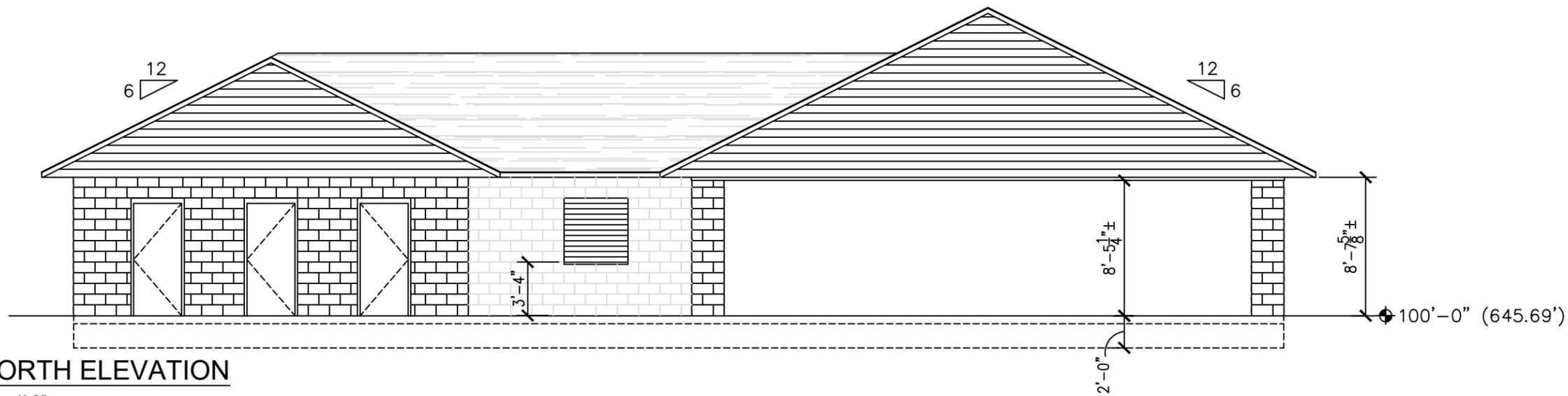


1 SOUTH ELEVATION
1/8" = 1'-0"

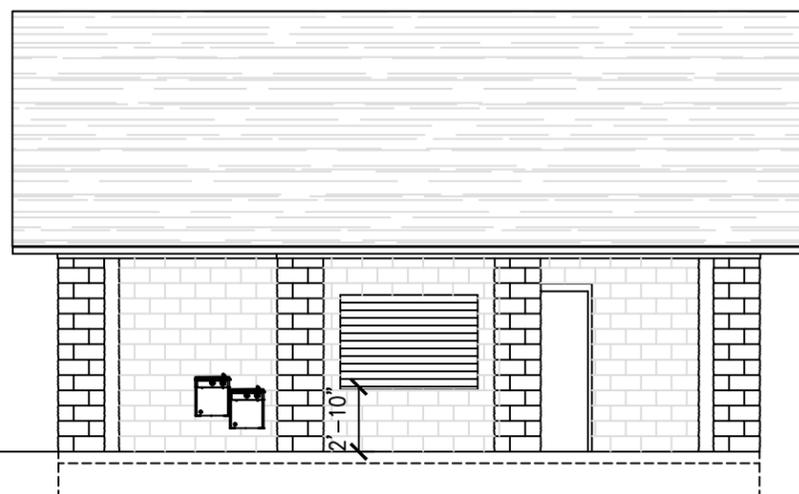
- TYPICAL PITCHED ROOF CONST.:**
- RIDGE VENT CONT. TO EDGES OF ROOF; TYP.
 - ASPHALT SINGLE
 - ICE & WATER SHIELD @ ROOF
 - 15/32" A.P.A. RATED PLYWD. SHEATHING; EXTERIOR GRADE
 - PRE-FAB ENG. ROOF TRUSSES @ 2'-0" O.C.; BY OTHERS
 - PROVIDE FOAM PLASTIC VENT CHUTES TO MAINTAIN VENTING AS REQ'D.

- TYPICAL WALL CONST.:**
- HORIZ. LAP SIDING OVER HOUSE WRAP ON 1 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

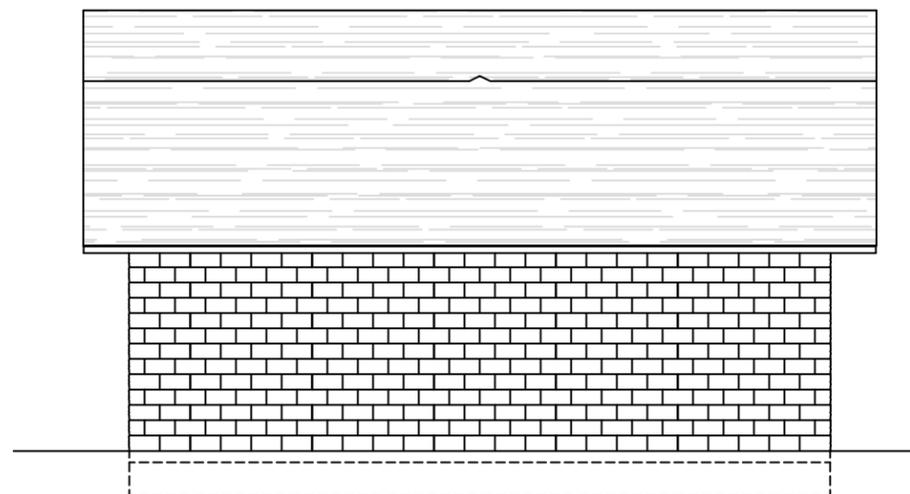
- TYPICAL FLOOR SLAB/FOUND. CONST.:**
- 6" CONCRETE FLOOR SLAB WITH REINFORCING
 - THICKENED SLAB EDGES, SEE STRUCTURAL SHEETS
 - SEE STRUCTURAL SHTS. FOR REINFORCING



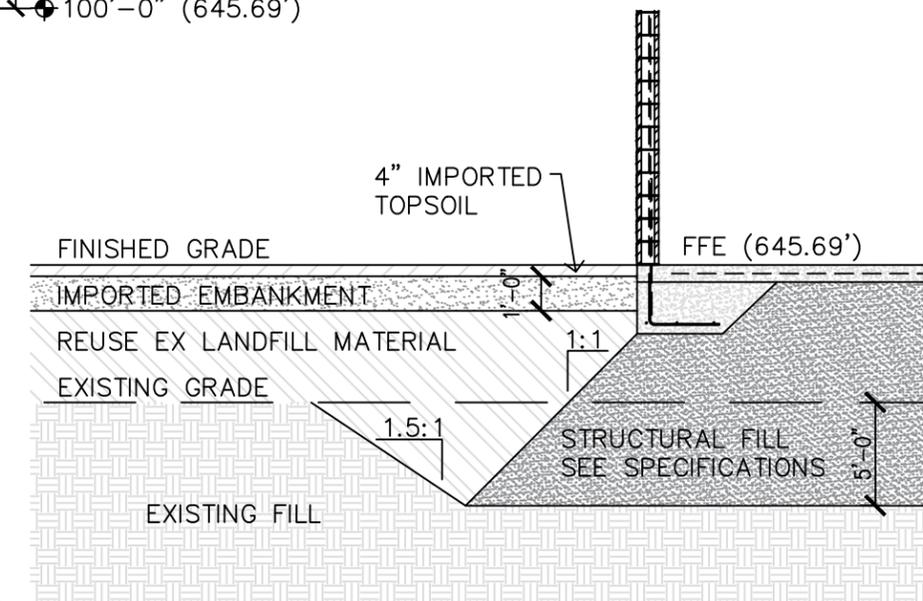
2 NORTH ELEVATION
1/8" = 1'-0"



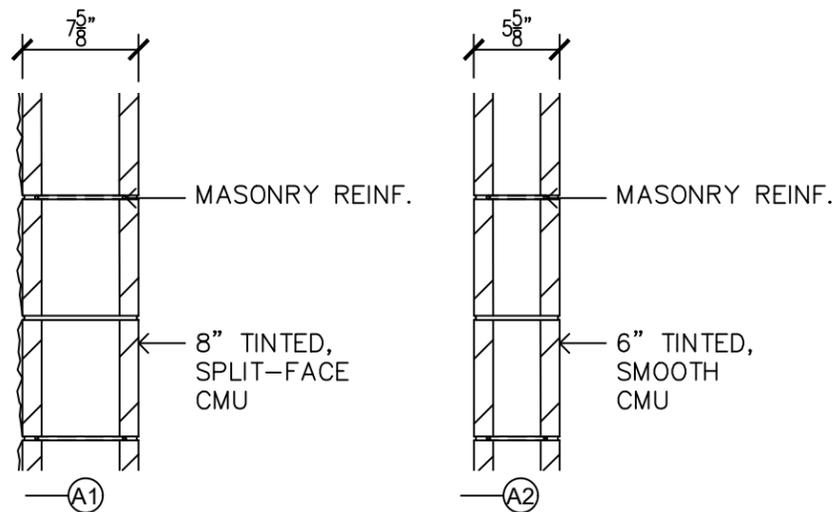
3 WEST ELEV.
1/8" = 1'-0"



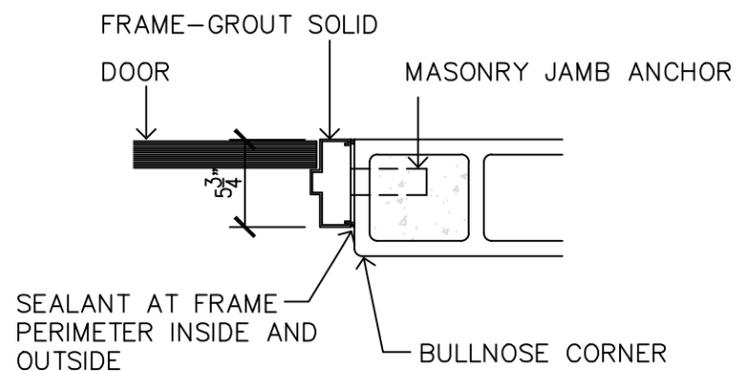
4 EAST ELEV.
1/8" = 1'-0"



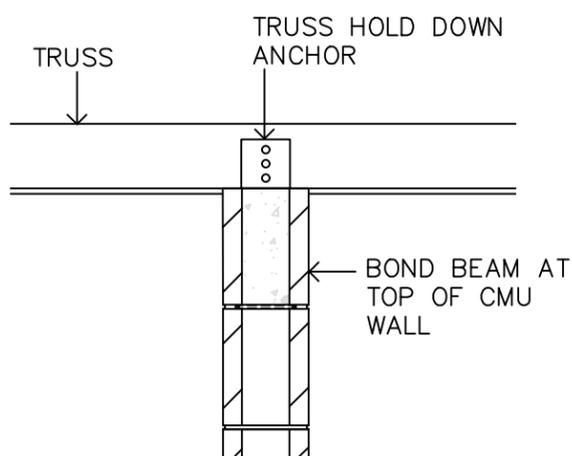
5 SUBGRADE CORRECTION
NO SCALE



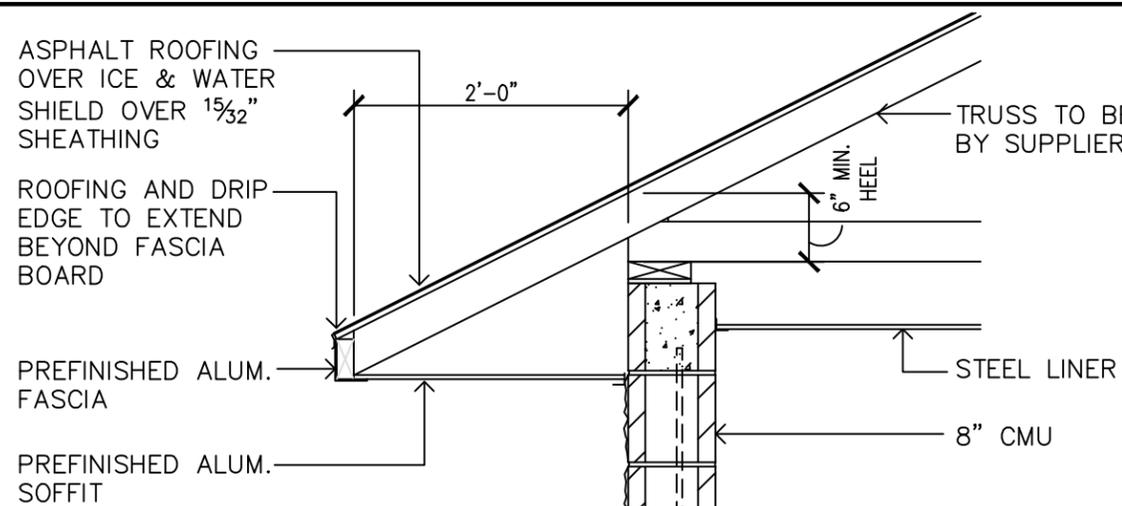
1 WALL TYPES
1" = 1'-0"



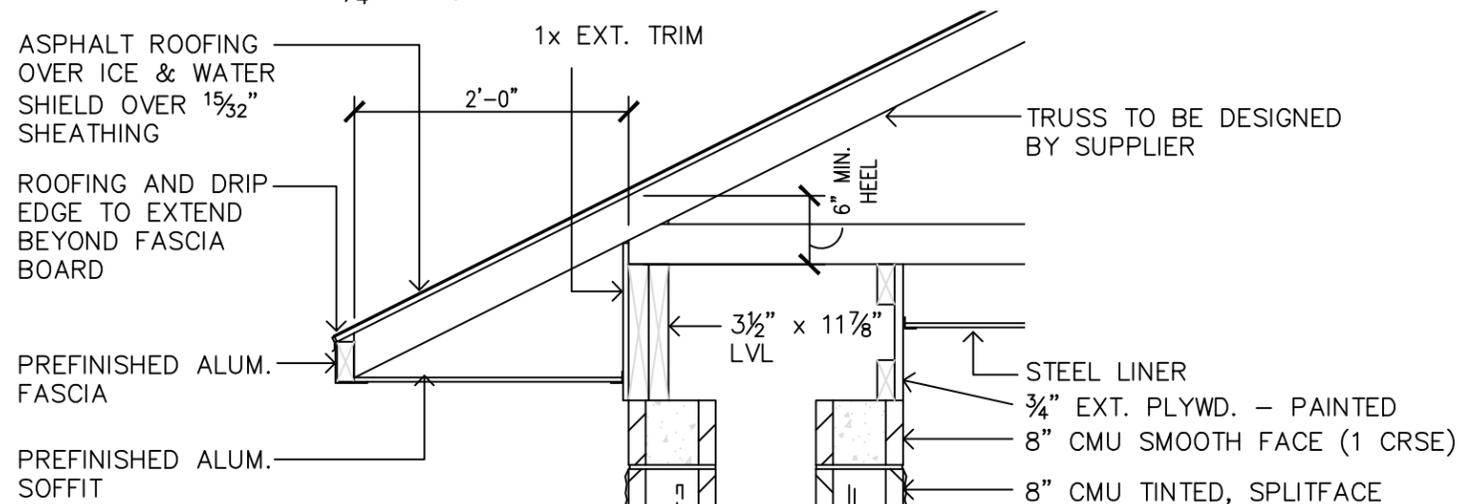
2 DOOR JAMB DETAIL
1" = 1'-0"



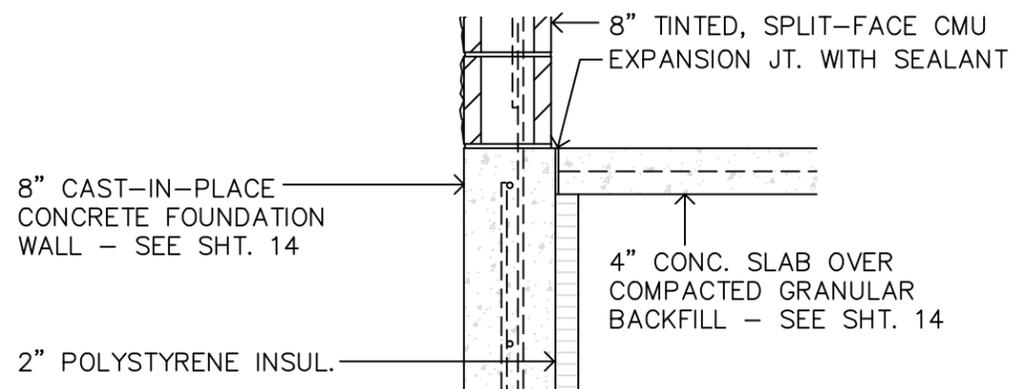
3 TOP OF CMU WALL DETAIL
1" = 1'-0"



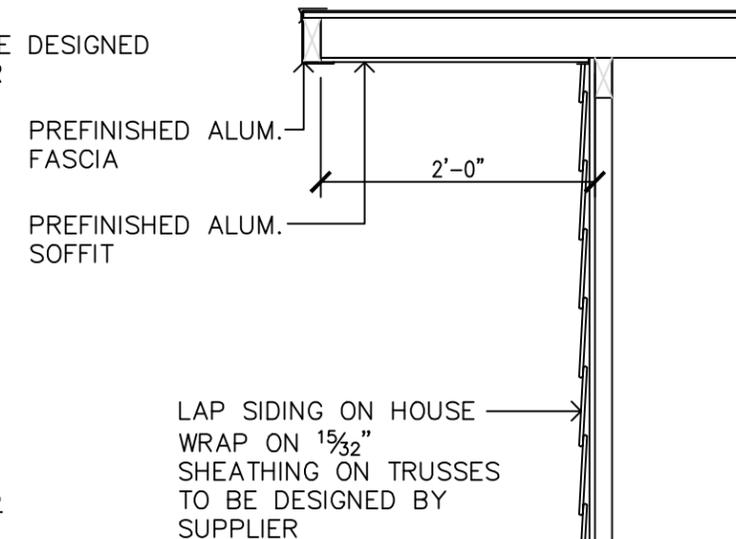
4 TOP OF WALL AT BLDG. DETAIL
3/4" = 1'-0"



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"

BUILDING CODES
 DESIGN & CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 WISCONSIN COMMERCIAL BUILDING CODE AS CONTAINED IN CHAPTERS SPS 361-366 OF THE WISCONSIN ADMINISTRATIVE CODE.
 OCCUPANCY CATEGORY II

DESIGN LOADS & DATA
 SUPERIMPOSED LOADS
 ROOF
 DEAD 25 PSF
 LIVE 20 PSF (IN ADDITION TO SNOW LOAD)

ROOF LOADS
 GROUND SNOW (Pg) 40 PSF
 SNOW DENSITY 19 PCF
 ROOF EXPOSURE FULLY EXPOSED
 SNOW IMPORTANCE FACTOR 1.0
 SNOW EXPOSURE FACTOR (Ce) 1.0
 THERMAL FACTOR - BUILDING (Ct) 1.2

WIND DATA
 BASIC WIND SPEED (3 SECOND GUST) 90 MPH
 BUILDING ENCLOSURE ENCLOSED
 EXPOSURE C
 WIND IMPORTANCE FACTOR (Iw) 1.0
 WIND DIRECTIONALITY FACTOR (Kd) 0.85
 TOPOGRAPHIC FACTOR (Kzt) 1.0
 GUST FACTOR (BUILDING IS RIGID [FLEXIBLE])(G[Gf]) 0.85
 INTERNAL PRESSURE COEFFICIENT (GCpi) ±0.18
 ANALYSIS PROCEDURE SIMPLIFIED
 EDGE ZONE WIDTH (a) 5 FT
 MEAN ROOF HEIGHT (H) 55 FT
 ROOF PLANE SLOPE (θ) 22.62°
 MINIMUM NET UPLIFT EXTERIOR CANOPIES/SOFFITS 30 PSF

SEISMIC DATA
 SEISMIC IMPORTANCE FACTOR 1.00
 MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Ss) 0.063
 MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIODS (S1) 0.033
 SITE CLASS PER [GEOTECHNICAL REPORT][ASCE CHAPTER 20.1] D
 DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (SDs) 0.067
 DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (SD1) 0.053
 SEISMIC DESIGN CATEGORY A
 BASIC SEISMIC FORCE RESISTING SYSTEM AND PARAMETERS
 LIGHT FRAMED WOOD WALLS
 SEISMIC RESPONSE COEFFICIENT (Cs) 0.010
 DESIGN BASE SHEAR 50 KIPS
 ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

MATERIAL STRENGTHS & STANDARDS
 SOILS
 DESIGN SOIL BEARING CAPACITY FOR SPREAD/STRIP FOOTINGS 1500 PSF (PRESUMED)

CONCRETE
 FOOTINGS F'c=3,000 PSI
 FOUNDATION WALLS F'c=4,000 PSI
 EXTERIOR SLAB-ON-GRADE F'c=4,500 PSI

REINFORCING STEEL
 WELDED WIRE FABRIC, PROVIDED IN FLAT SHEETS ONLY (ASTM A185) Fy=65,000 PSI
 DEFORMED BARS (ASTM A615, GRADE 60) Fy=60,000 PSI
 STRUCTURAL STEEL PLATES Fy=36,000 PSI; Fu=58,000 PSI

WOOD
 WALL STUDS (SPF, STUD GRADE) Fb=675 PSI; FcII=725 PSI; E=1,200,000 PSI
 JOISTS/HEADERS (SPF, NO. 2 OR BETTER) Fb=875 PSI; Fv=135 PSI; FcI=425 PSI; E=1,400,000 PSI
 LAMINATED STRAND LUMBER (LSL) Fb=2,600 PSI; Fv=400 PSI; FcI=880 PSI; E=1,700,000 PSI
 LAMINATED VENEER LUMBER (LVL) Fb=3,100 PSI; Fv=285 PSI; FcI=750 PSI; E=2,000,000 PSI
 POSTS AND TIMBERS (SPF, NO. 2 OR BETTER) Fb=500 PSI; FcII=500 PSI; E=1,000,000 PSI
 BEAMS AND STRINGERS (SPF, NO.2 OR BETTER) Fb=600 PSI; Fv=125 PSI; FcI=425 PSI; E=1,000,000 PSI
 BOLTS AND LAG SCREWS (ASTM A307, GRADE A) Fy=36,000 PSI
 GLU-LAM
 SOUTHERN PINE (24F-V3) Fb=2,400 PSI; Fv=270 PSI; FcI=740 PSI TENSION/COMPRESSION FACE
 Fc(11)=1,700 PSI; Ft(11)=1,150 PSI E=1,800,000 PSI
 DOUGLAS FIR (24F-V4) Fb=2,400 PSI; Fv=190 PSI; FcI=650 PSI TENSION/COMPRESSION FACE
 Fc(11)=1,650 PSI; Ft(11)=1,150 PSI E=1,800,000 PSI

GENERAL NOTES
CONSTRUCTION
 UNLESS SPECIFICALLY NOTED OTHERWISE, BUILDING STRUCTURE HAS BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION ONLY, AND HAS NOT BEEN ANALYZED, INVESTIGATED OR DESIGNED FOR OVERALL STRUCTURE, OR INDIVIDUAL MEMBER, STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING AND SUPPORTS FOR ALL STRUCTURAL ELEMENTS, BOTH INDIVIDUALLY AND COLLECTIVELY, AS REQUIRED AT TEVERY STAGE OF CONSTRUCTION UNTIL THE FINAL COMPLETION OF THE STRUCTURE. NO PORTION OF THE BUILDING STRUCTURE, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY BRACES AND SUPPORTS, WHICH SHALL ADDITIONALLY PROVIDE SUPPORT FOR ALL CONSTRUCTION LOADING. MATERIALS AND EQUIPMENT SHALL BE STORED, TRANSPORTED AND INSTALLED IN A MANNER THAT WILL NOT EXCEED THE DESIGN FLOOR LOADING.

COMPLETENESS
 INFORMATION CONTAINED IN THE GENERAL NOTES IS ONLY A PARTIAL SUMMARY OF PROJECT REQUIREMENTS. SEE SPECIFICATIONS, PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS

USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT MANUALLY SCALE THE DRAWINGS OR USE ANY DIMENSIONS MEASURED FROM ELECTRONIC DRAWING FILES.

UNLESS NOTED OTHERWISE, CENTERLINE OF FLOOR FRAMING ELEMENTS COINCIDES WITH COLUMN CENTERLINES, AND FRAMING ELEMENTS ARE EQUALLY SPACED BETWEEN ADJACENT COLUMN CENTERLINES.

MAJOR OPENING LOCATIONS AND SIZES ARE INDICATED ON THE STRUCTURAL DRAWINGS. SMALLER OPENINGS AND SLEEVES REQUIRED TO ACCOMMODATE VARIOUS BUILDING SERVICES MAY NOT BE NOTED. CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, INCLUDING CLEARANCE REQUIREMENTS CONTAINED IN THE RESPECTIVE DISCIPLINE DOCUMENTS FOR INSTALLATION AND IN-PLACE OPERATION OF THE RESPECTIVE EQUIPMENT FOR ITEMS. UNDER NO CIRCUMSTANCES MAY PENETRATIONS BE MADE IN ANY STRUCTURAL ELEMENT AFTER FINAL PLACEMENT IN THE BUILDING STRUCTURE, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

CONSULT ALL DRAWINGS AND MANUFACTURERS SHEETS FOR LOCATIONS AND DIMENSIONS OF PADS, CURBS, EQUIPMENT SUPPORTS, DEPRESSIONS, INSERTS, DRIPS, REGLETS, REVEALS, FINISHES AND OTHER MISCELLANEOUS PROJECT REQUIREMENTS THAT NECESSITATE INCIDENTAL ACCOMMODATION BY THE BUILDING STRUCTURE BUT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL
 THE STRUCTURE HAS BEEN DESIGNED AS UNRESTRAINED FOR THE PURPOSE OF FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS.

STRUCTURAL COMPONENTS HAVE NOT BEEN DESIGNED FOR VIBRATORY EQUIPMENT UNLESS NOTED OTHERWISE. PLACE VIBRATORY EQUIPMENT AND EQUIPMENT SENSITIVE TO VIBRATIONS ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED FOR THE EQUIPMENT.

HOLES, NOTCHES, BLOCK-OUTS AND OTHER SIMILAR FILED MODIFICATIONS TO STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED SHOP DRAWINGS ARE NOT PERMITTED.

EXCEPT AS NOTED BELOW, ALL FUTURE EXPANSION IS ASSUMED TO BE COMPLETELY SELF SUPPORTING FOR BOTH GRAVITY AND LATERAL LOADS.

STANDARD ABBREVIATIONS:

AB ANCHOR BOLT (ROD)
 AHU AIR HANDLING UNIT
 ALT ALTERNATE
 APPROX APPROXIMATELY
 BF BOTTOM OF FOOTING
 BS BOTTOM OF STEEL
 BC BOTTOM CHORD
 BLDG BUILDING
 BRG BEARING
 BTWN BETWEEN
 CB CATCH BASIN
 CIP CAST-IN-PLACE
 CJ CONTROL JOINT
 CLR CLEAR (DISTANCE)
 CMU CONCRETE MASONRY UNIT
 COL COLUMN
 CONC CONCRETE
 CONT CONTINUOUS
 CS COLUMN STRIP
 DBA DEFORMED BAR ANCHOR
 DEMO DEMOLITION/DEMOLISH
 DIA DIAMETER
 DL DEAD LOAD
 DWG DRAWING
 E/D EDGE OF DECK
 E/S EDGE OF SLAB
 EF EACH FACE
 EJ EXPANSION JOINT
 EL ELEVATION
 ELEC ELECTRICAL
 ENG ENGINEER
 EQ EQUAL
 ES EDGE STRIP
 EW EACH WAY
 EWEF EACH WAY EACH FACE
 EXP EXPANSION
 EXT EXTERIOR
 EXISTEXISTING
 FD FLOOR DRAIN
 FLG FLANGE
 FLR FLOOR
 FTG FOOTING
 FUT FUTURE
 FV FIELD VERIFY
 GA GAUGE
 GALV GALVANIZED
 GC GENERAL CONTRACTOR
 GLULAM GLUE-LAMINATED BEAM
 HK HOOK
 HORIZ HORIZONTAL
 HP HIGH POINT
 HVACHEATING, VENTILATING & AIR CONDITIONING
 HWS HEADED WELDED STUD
 ID INSIDE DIAMETER
 IF INSIDDE FACE
 INT INTERIOR
 JBE JOIST BEARING ELEVATION
 K KIP
 KO KNOCKOUT PANEL
 KSI KIPS PER SQUARE INCH
 L ANGLE
 LB POUNDS
 LL LIVE LOAD
 LLBB LONG LEG BACK TO BACK
 LLH LONG LEG HORIZONTAL
 LLV LONG LEG VERTICAL

LP LOW POINT
 LSL LAMINATED STRAND LUMBER
 LTWT LIGHTWEIGHT
 LVL LAMINATED VENEER LUMBER
 LW LONG WAY
 MAX MAXIMUM
 MECH MECHANICAL
 MFR MANUFACTURER
 MIN MINIMUM
 MISC MISCELLANEOUS
 MO MASONRY OPENING
 MS MIDDLE STRIP
 NA NOT APPLICABLE
 NIC NOT IN CONTRACT
 NOM NOMINAL
 NTS NOT TO SCALE
 OC ON CENTER
 OD OUTSIDE DIAMTER
 OF OUTSIDE FACE
 OPNG OPENING
 OPP OPPOSITE
 OSL OUTSTANDING LEG
 PC PRECAST/PRESTRESSED
 PCI POUNDS PER CUBIC INCH
 PCF POUNDS PER CUBIC FOOT
 PL PLATE
 PLBG PLUMBING
 PLF POUNDS PER LINEAR FOOT
 PROJ PROJECT
 PSF POUNDS PER SQUARE FOOT
 PSI POUNDS PER SQUARE INCH
 PT PRE (POST) -TENSIONED
 RD ROOF DRAIN
 REF REFERENCE
 REINF REINFORCE(D)
 REM REMAINDER
 RTU ROOF TOP UNIT
 SC SLIP CRITICAL
 SCH SCHEDULE
 SHT SHEET
 SIM SIMILAR
 SL SNOW LOAD
 SLBB SHORT LEGS BACK TO BACK
 SOG SLAB-ON-GRADE
 SP SPACE, SPACES, SPACED, SPACING
 SPEC SPECIFICATION
 SQ SQUARE
 SS STAINLESS STEEL
 STD STANDARD
 SW SHORT WAY
 TF TOP OF FOOTING
 TL TOP OF LEDGE
 TP TOP OF PIER
 TS TOP OF STEEL
 TW TOP OF WALL
 TC TOP CHORD
 THK THICK, THICKNESS, THICKENED
 TL TOTAL LOAD
 TYP TYPICAL
 UNO UNLESS OTHERWISE NOTED
 VERT VERTICAL
 VIF VERIFY IN FIELD
 WL WIND LOAD
 WP WORKING POINT
 WWF WELDED WIRE FABRIC



MAKEPEACE ENGINEERING

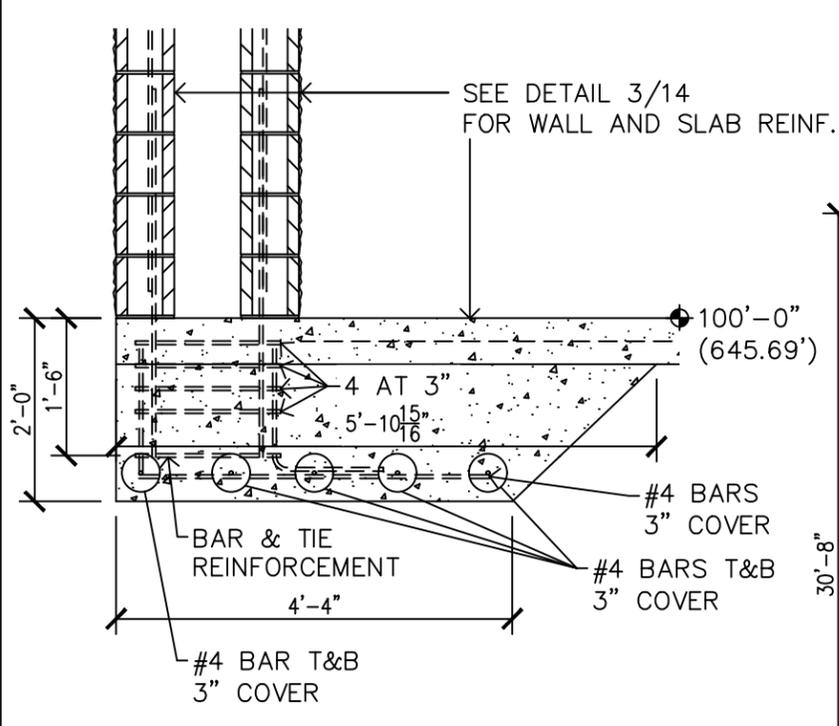
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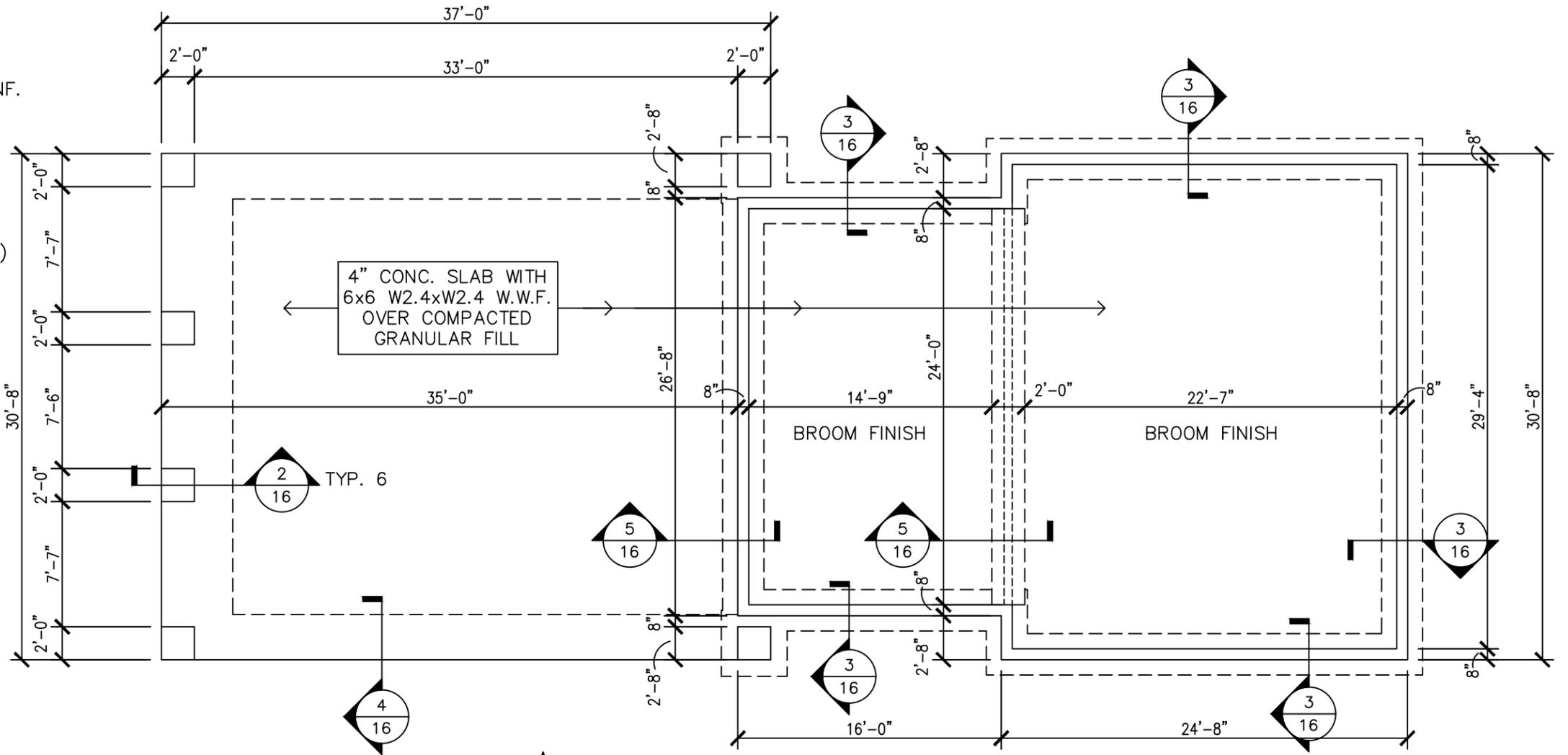
STRUCTURAL NOTES

DATE	REVISION	DESCR.	
			9
			36



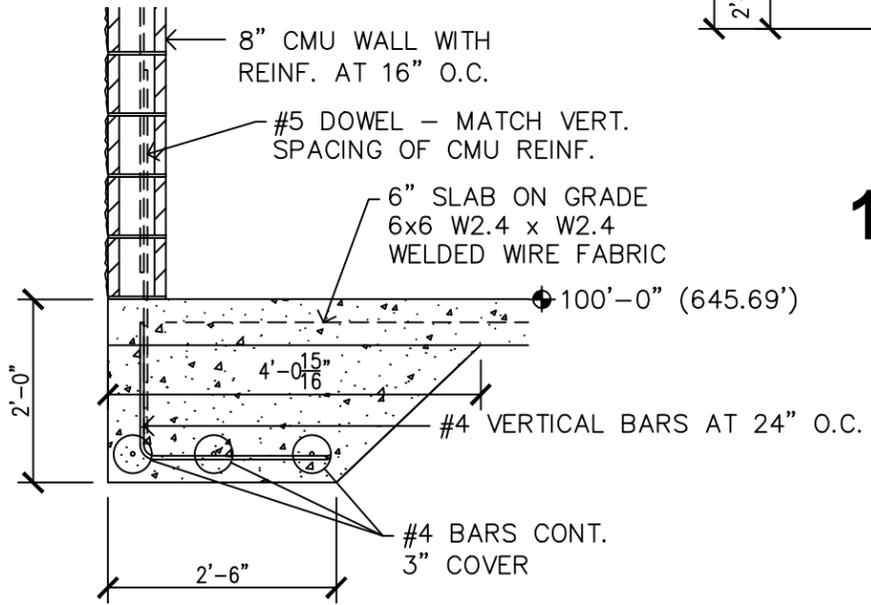
2 CONCRETE SLAB & PIER DETAIL

1/2" = 1'-0"



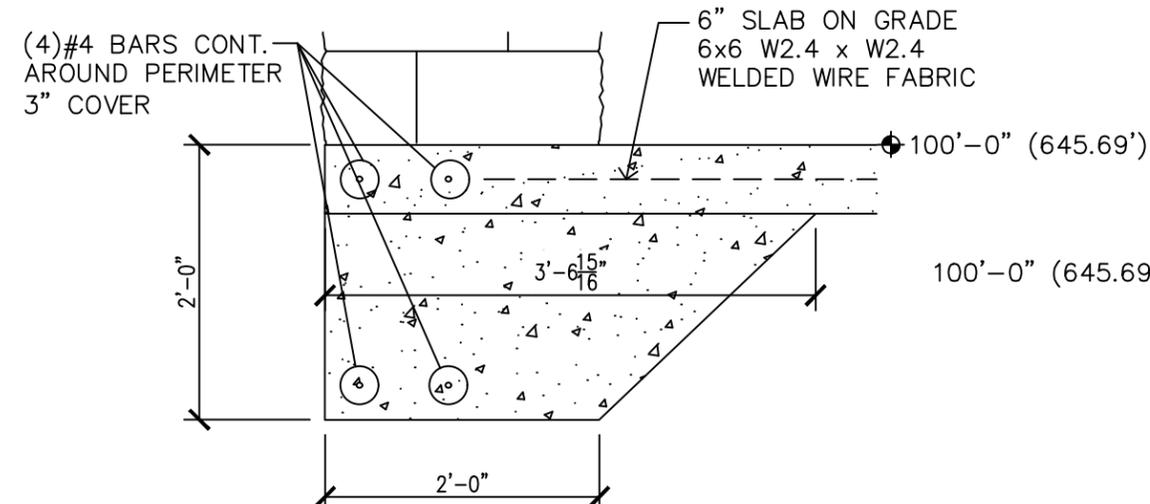
1 FOUNDATION PLAN

1/8" = 1'-0"



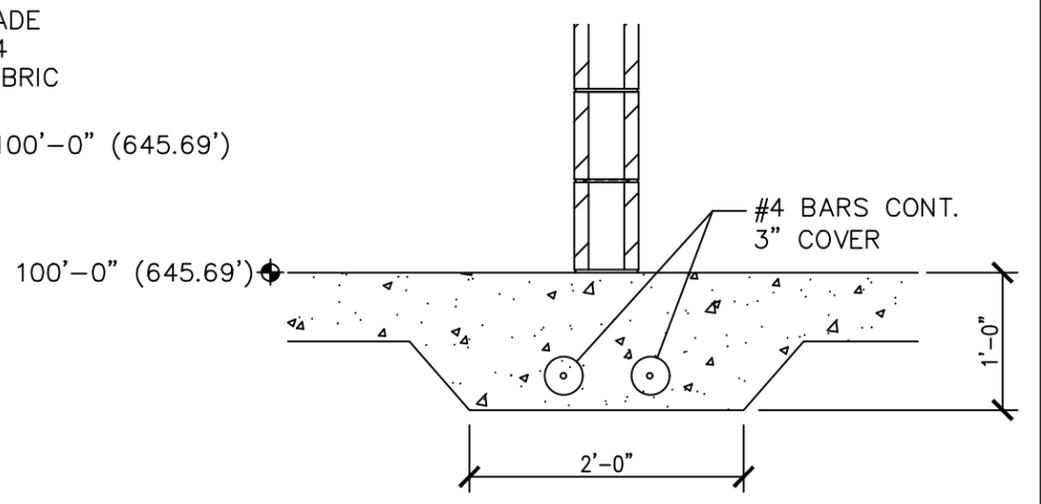
3 CONCRETE SLAB & WALL DETAIL

1/2" = 1'-0"



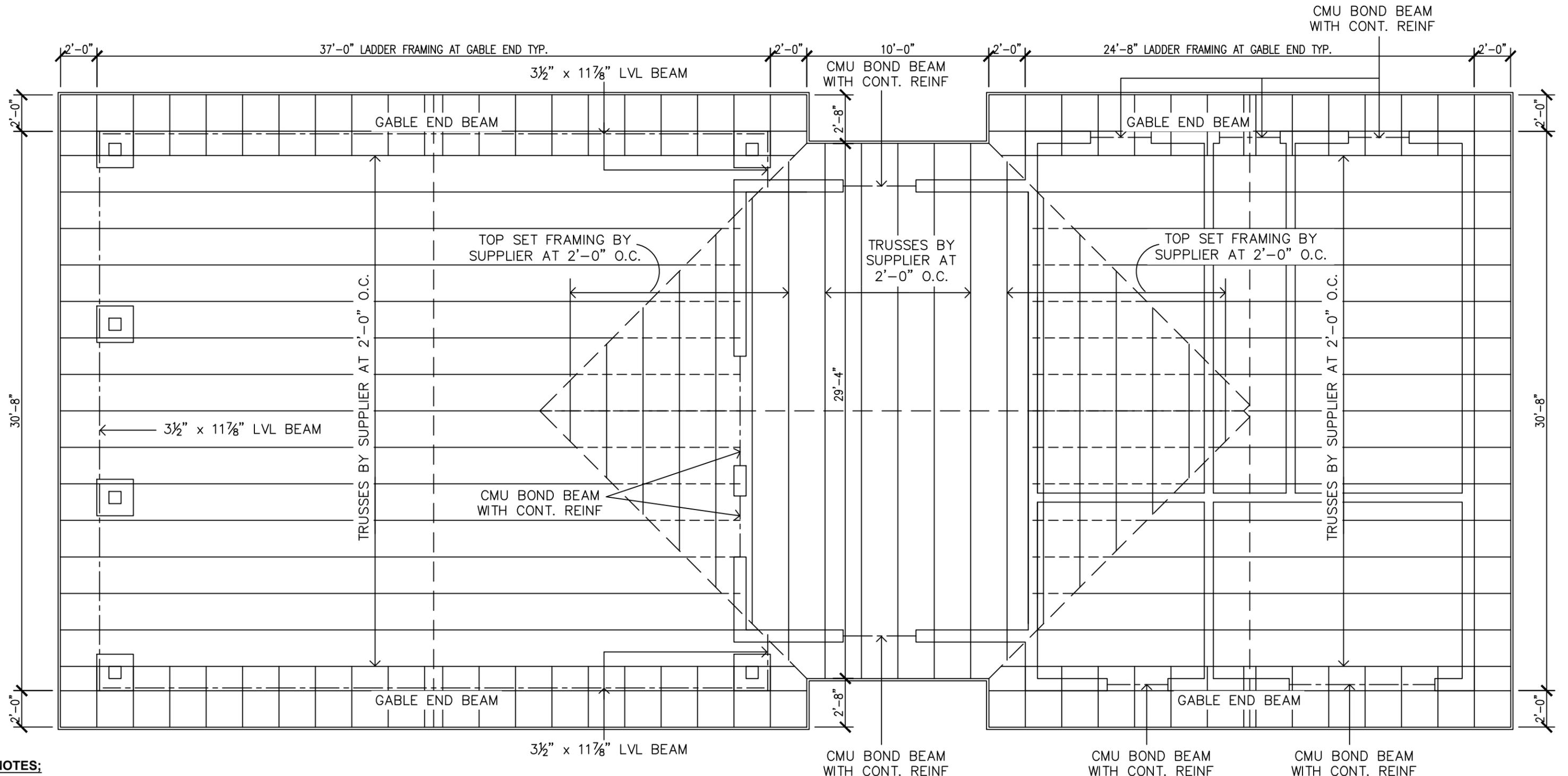
4 CONCRETE SLAB DETAIL

3/4" = 1'-0"



5 THICKENED SLAB DETAIL

3/4" = 1'-0"



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 $\frac{3}{16}" = 1'-0"$



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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 (1/2"-2" SIZES), RPTFE STEM PACKING, GLAND NUT, BRONZE BODY (<15% ZINC), CHROME PLATED BALL, REINFORCED TEFLO 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	1/2"
COLD WATER	RIGID FIBERGLASS	2" & SMALLER	1/2"

GENERAL PLUMBING NOTES:

- BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED.
- PATCH ALL HOLES THROUGH FLOORS W/ NON-SHRINK GROUT.
- ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED.
- ALL DOMESTIC WATER SHALL BE CONSTRUCTED WITH TYPE L COPPER.
- THE PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND IS NOT INTENDED TO BE ALL INCLUSIVE.
- 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.
- REFER TO BUILDING PLAN SHEETS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT.
- EACH SYSTEM SHALL BE COMPLETE, WORKING, TESTED, AND OPERATIONAL.
- NO JOINTS SHALL BE INSTALLED IN UNDER FLOOR WATER PIPING.
- ALL WATER PIPING SHALL BE INSTALLED SO AS TO FACILITATE COMPLETE DRAINAGE.
- ALL ROUGH IN PIPING SHALL TERMINATE FROM WALL PERPENDICULAR TO WALL AND LEVEL.
- ALL WATER PENETRATIONS FOR FIXTURES THROUGH WALLS OR FLOORS SHALL BE SECURED.
- ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS 384.20(3).
- DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40, FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS.
- BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES, CONFORMING TO SPS 382.41(3).
- EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(C)B.
- TERMINATE WATER AND SANITARY LATERAL 5'-0" BEYOND EXTERIOR FACE OF FOUNDATION WALL. CONTINUATION SHALL BE UNDER A SEPARATE CONTRACT.
- UNLESS NOTED OTHERWISE, ALL WASTE AND DRAIN PIPING 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND WASTE AND DRAIN PIPING 2" AND SMALLER SHALL BE INSTALLED AT A SLOPE OF 1/4" PER FOOT.
- CONNECT VENT PIPING ABOVE THE CENTERLINE OF HORIZONTAL DRAIN PIPING ON CONFORMANCE WITH SPS 382.31(15)(b)1.
- FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(15)(b)3.
- THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL CONFORM TO SPS 384.40(14), WHEN APPLICABLE.
- WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LOG SWEEP FITTINGS.
- CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35.
- ALL WATER CLOSETS SHALL BE WATER CONSERVING TYPE, USING A MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS 384.20(3).
- ALL SINK FAUCETS SHALL USE A MAXIMUM OF 2.2 GPM, CONFORMING TO SPS 384.20(3)
- 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.
- 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.
- 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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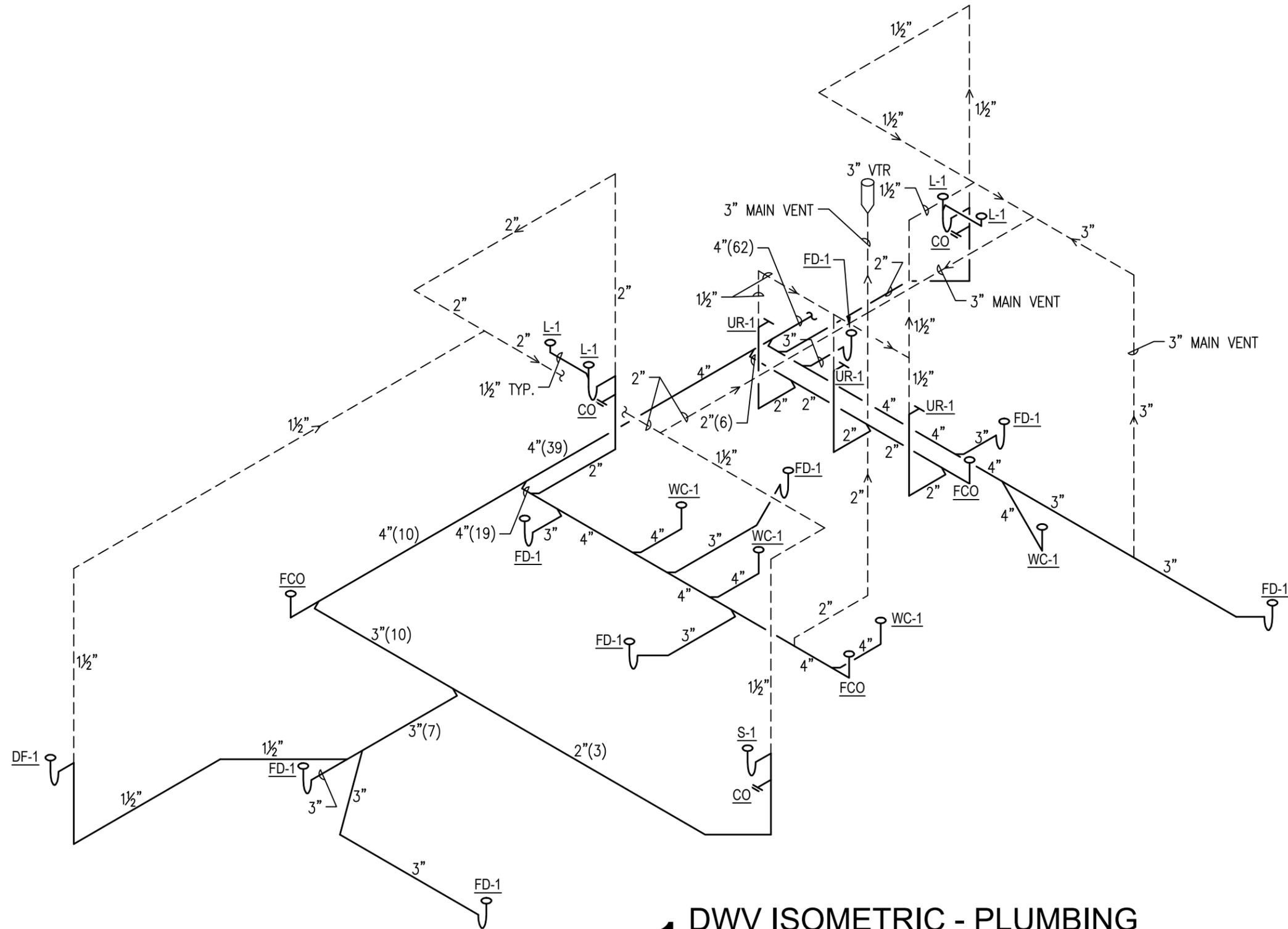
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PLUMBING NOTES

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1 DWV ISOMETRIC - PLUMBING
NO SCALE



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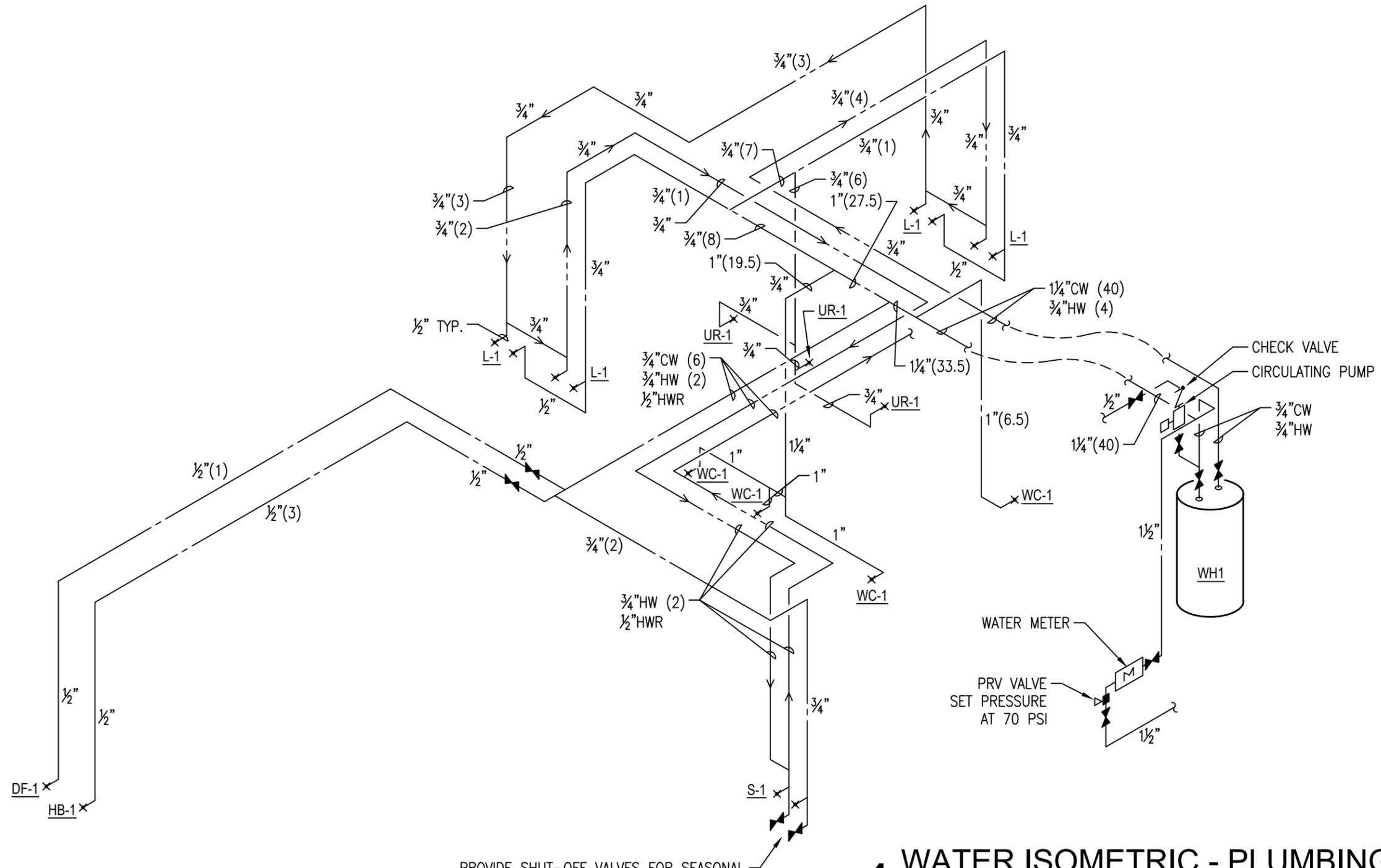
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**DWV ISO
DIAGRAM**

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PROVIDE SHUT-OFF VALVES FOR SEASONAL SYSTEM DRAINAGE. FIELD VERIFY LOCATION AND AMOUNT OF LOCATIONS OF VALVES NEEDED TO COMPLETELY DRAIN SYSTEM

1 WATER ISOMETRIC - PLUMBING
NO SCALE

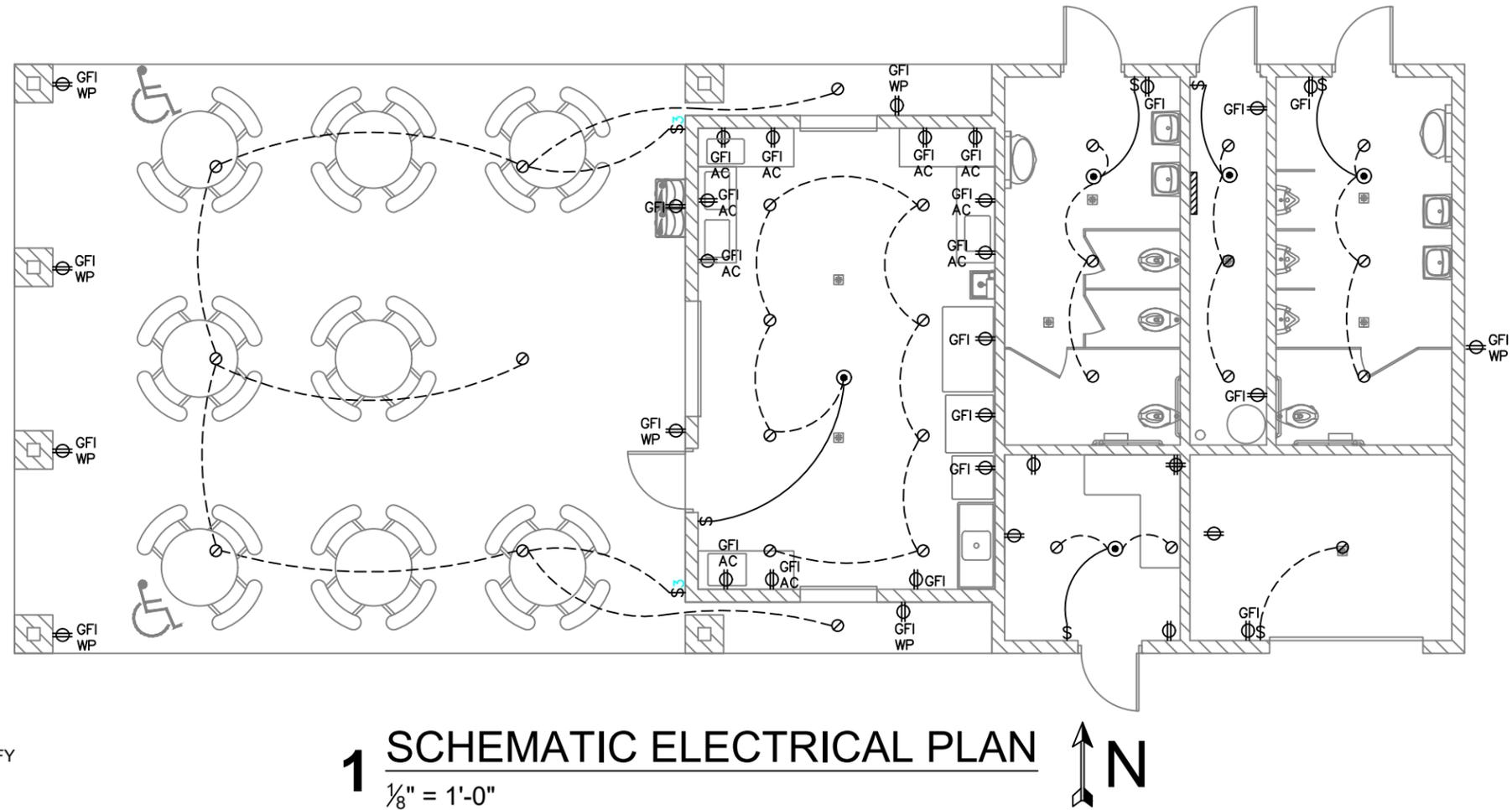
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ELECTRICAL FIXTURE SCHEDULE

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

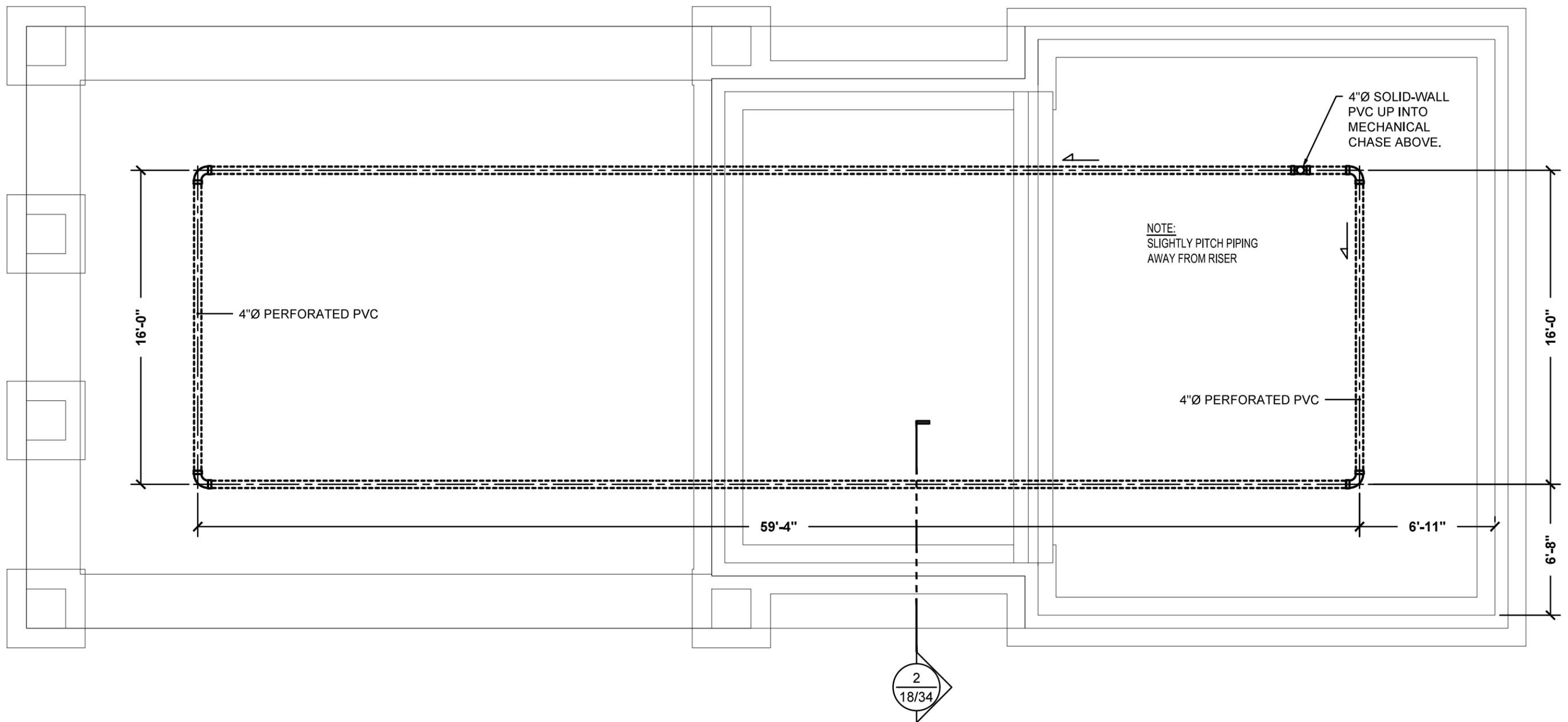
NOTES

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.

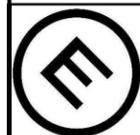


- ⊙ MOTION SENSOR
- ⊕ DUPLEX CONVENIENCE RECEPTACLE
 (WP = WEATHER PROOF
 GFI = GROUND FAULT PROTECTED
 AC = MOUNT RECEPT. AT COUNTER HEIGHT - VERIFY HGT.)
- ⊕ FOUR-PLEX (DOUBLE DUPLEX) RECEPTACLE
- ⊙ RECESSED CEILING LIGHT
- ⌘ SWITCH
 (3 = THREE-WAY)
- ▨ ELECTRICAL PANEL

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



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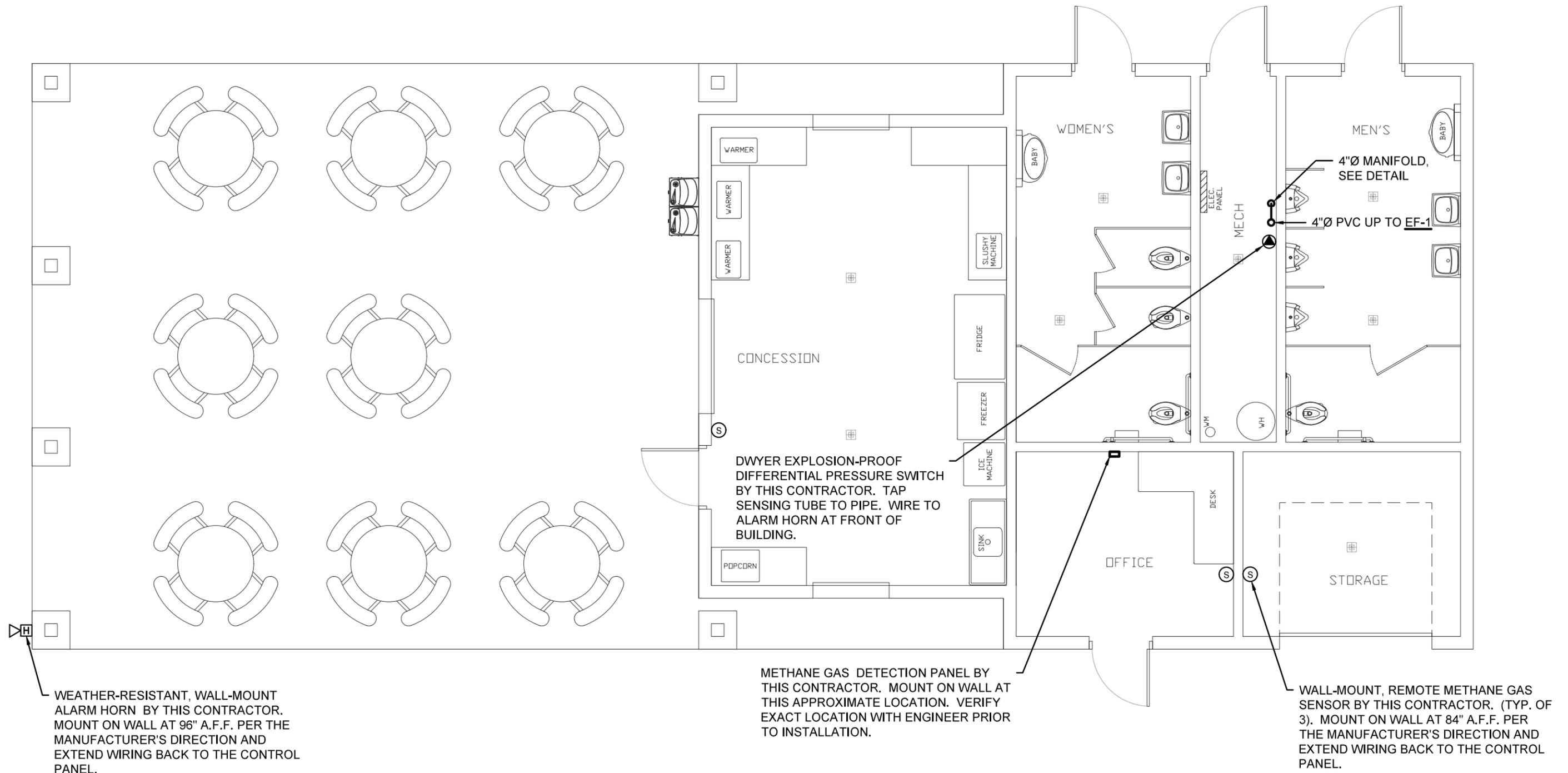
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**METHANE EXTRACTION
PLAN VIEW**

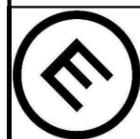
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1 FIRST FLOOR PLAN VIEW
17/34 SCALE: 3/16" = 1'-0"



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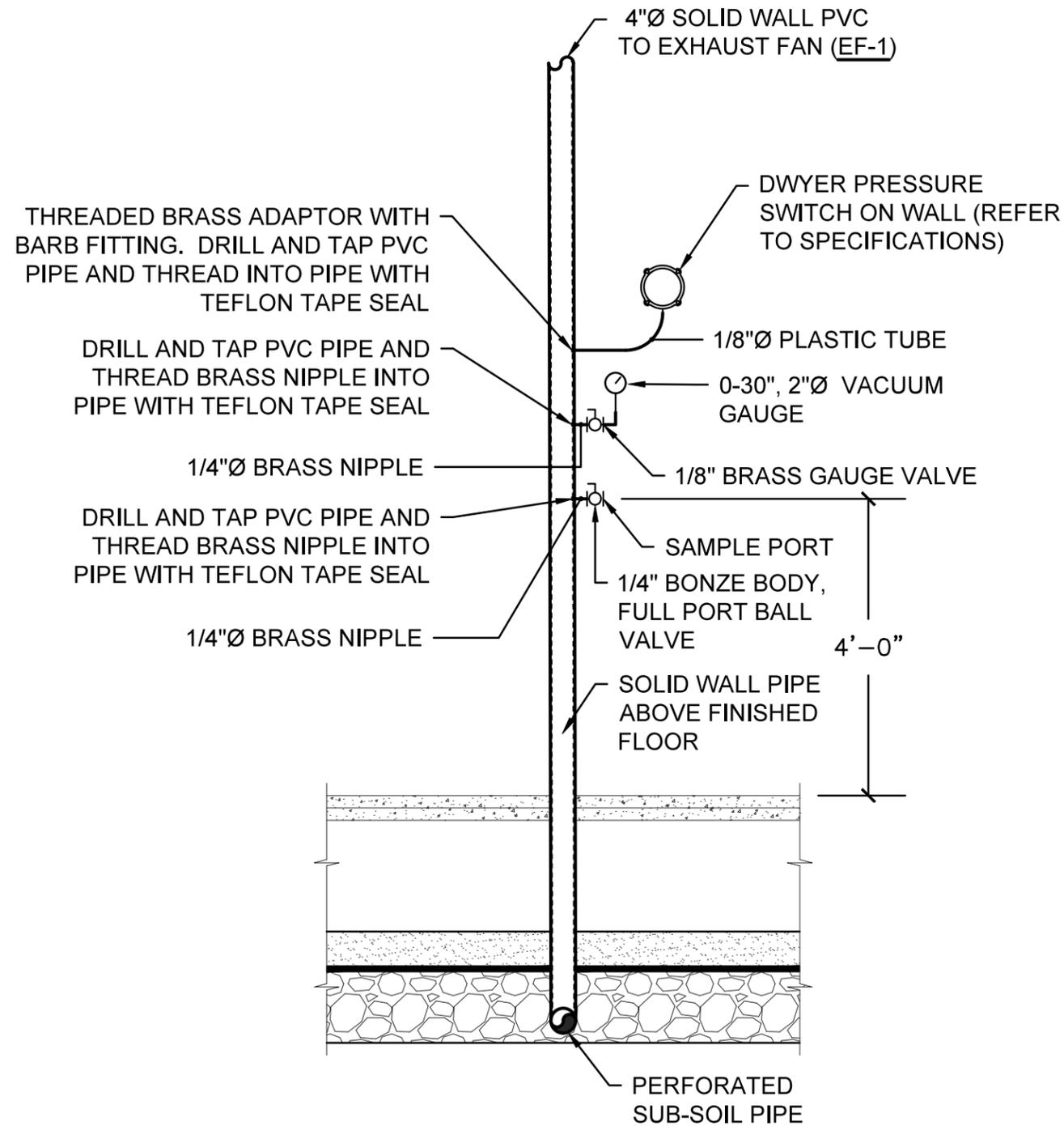
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**METHANE EXTRACTION
MECHANICAL PLANS**

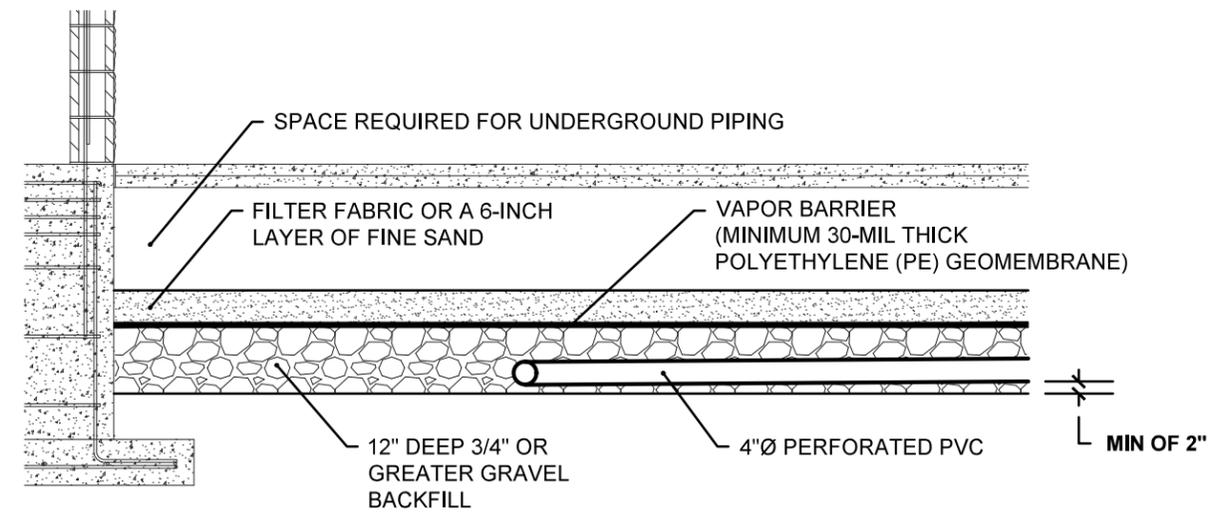
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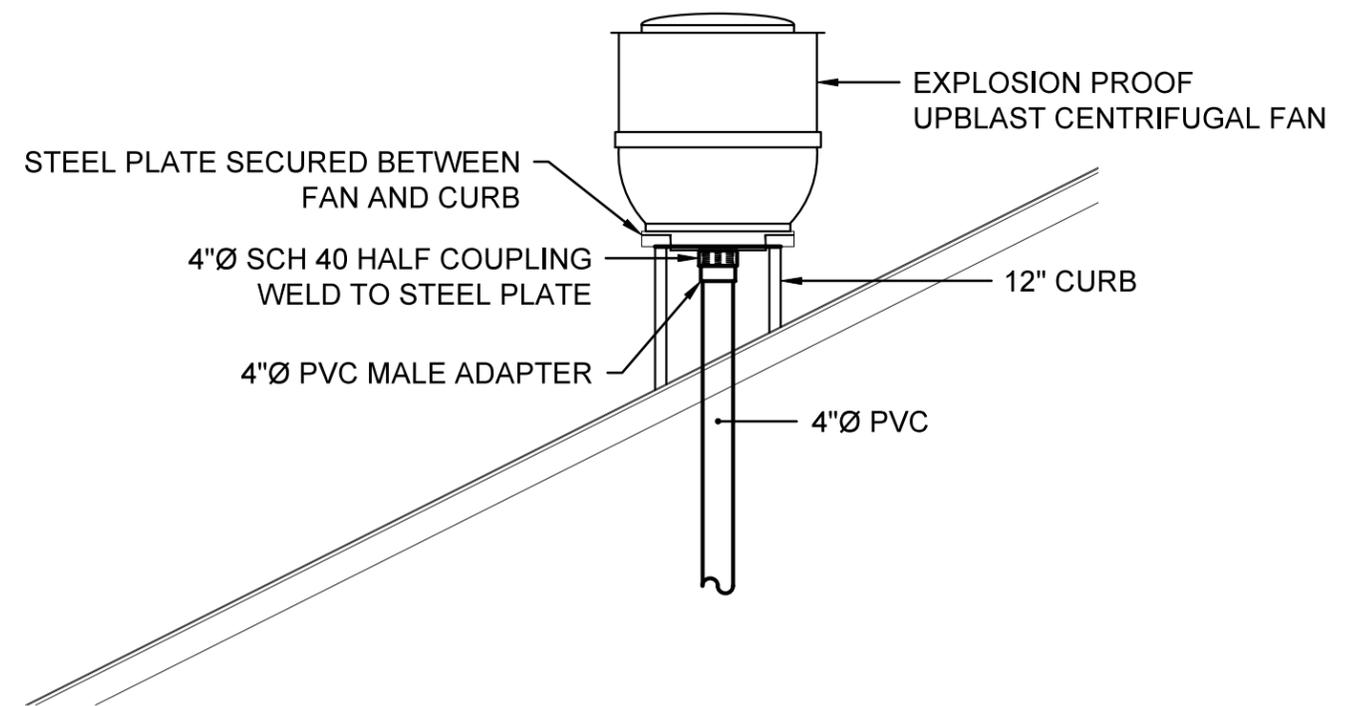
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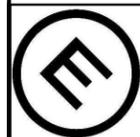
1 MANIFOLD DETAIL
18/34 NOT TO SCALE



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



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



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**METHANE EXTRACTION
MECHANICAL DETAILS**

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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

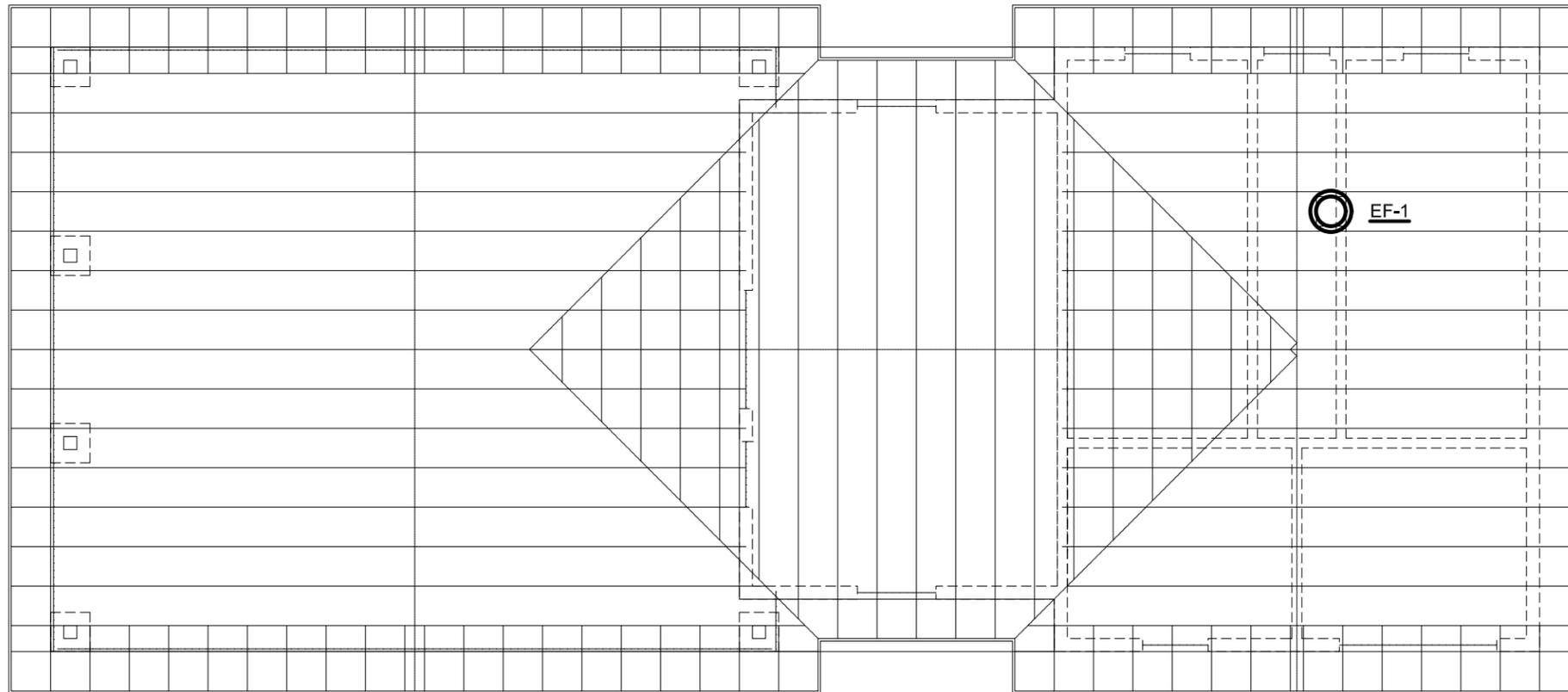
Based on products by S&P. Equal products by prior approval only.

ACCESSORIES/OPTIONS:

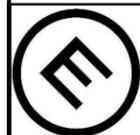
1. Roof Curb for Flat Roof
2. Roof Curb for Pitched Roof
3. Gravity Backdraft Damper
4. Motorized Backdraft Damper
5. Hinged Subbase
6. Insect Screen
7. Combination Disc. Switch/Variable Speed Control
8. Disconnect Switch

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.



1 ROOF PLAN VIEW
SCALE: 1/8" = 1'-0"



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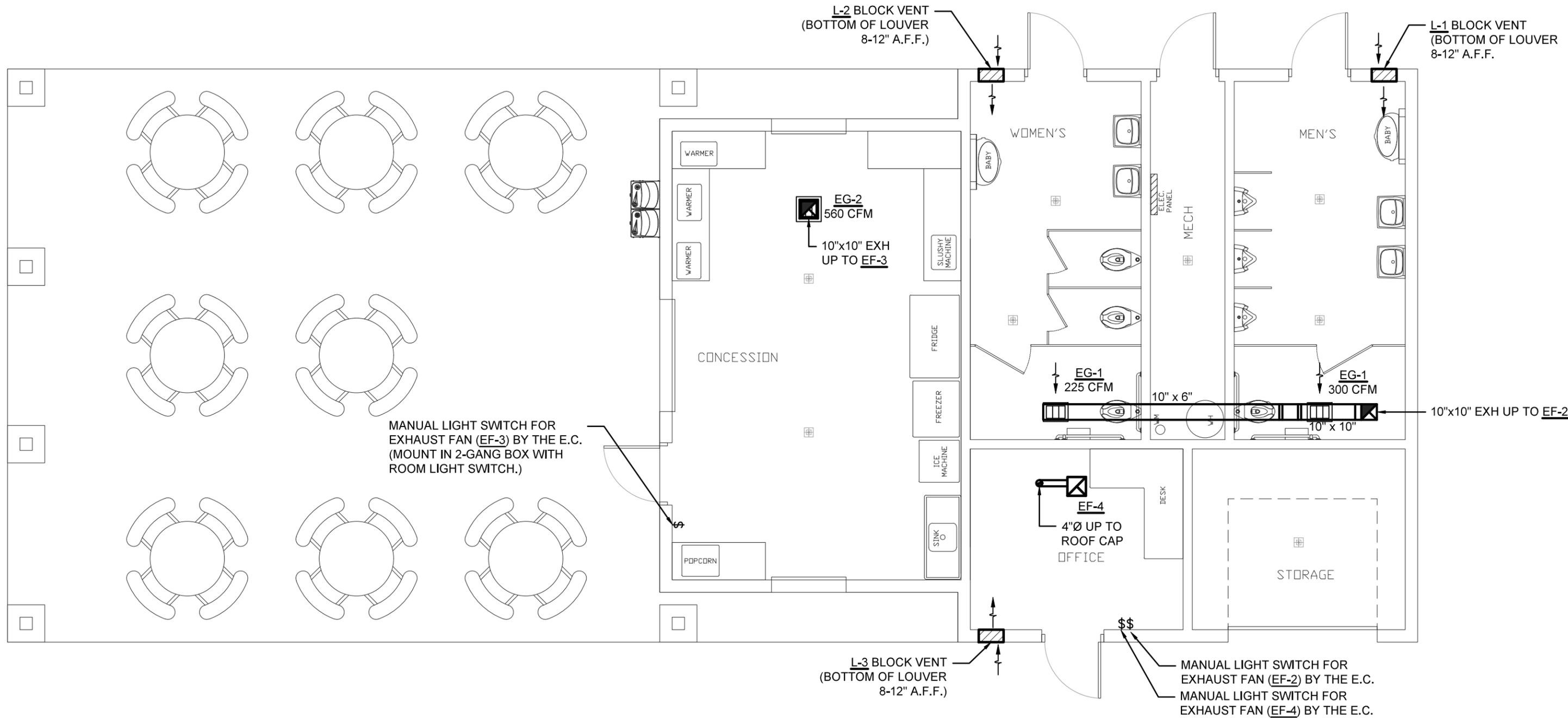
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**METHANE EXTRACTION
MECHANICAL SCHEDULE**

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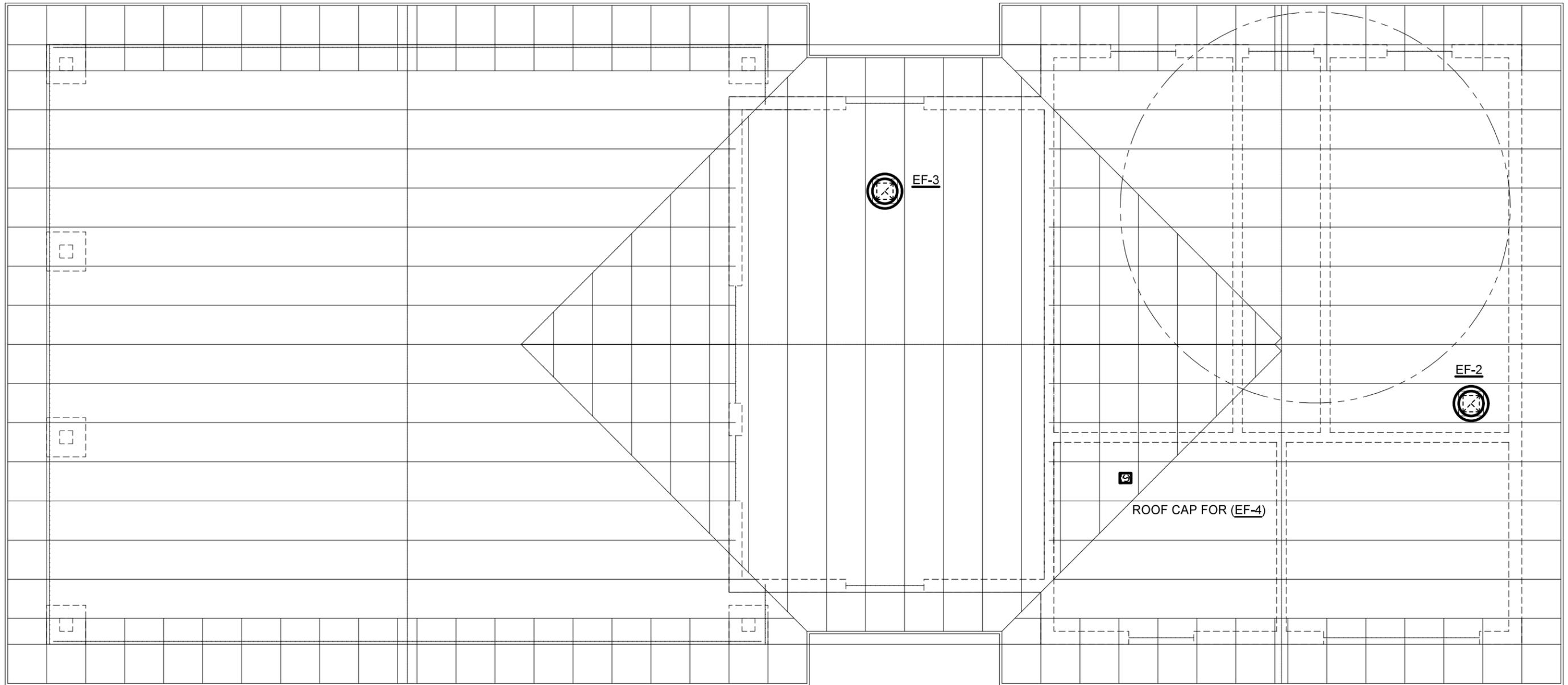
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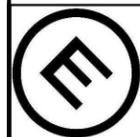
1 MECHANICAL PLAN VIEW
 20/34 SCALE: 3/16" = 1'-0" N



MAKEPEACE ENGINEERING	200 MASON STREET #15 ONALASKA, WI 54650 608.881.6030	2023 CARROLL PARK IMPROVEMENTS PARKS, RECREATION & FORESTRY CITY OF LA CROSSE, WI 54601	1/13/2023	MECHANICAL PLAN VIEW	DATE	REVISION	DESCR.	21 36



1 MECHANICAL ROOF VIEW
21/34 SCALE: 3/16" = 1'-0" N



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2023 CARROLL PARK IMPROVEMENTS
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CITY OF LA CROSSE, WI 54601

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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 will be acceptable.

** Distance in FT at 100 FPM with 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

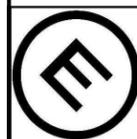
Based on products by Ruskin. Equal products will be acceptable.

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 with baked enamel painted finish - color choice by Architect from manufacturer's standard colors.



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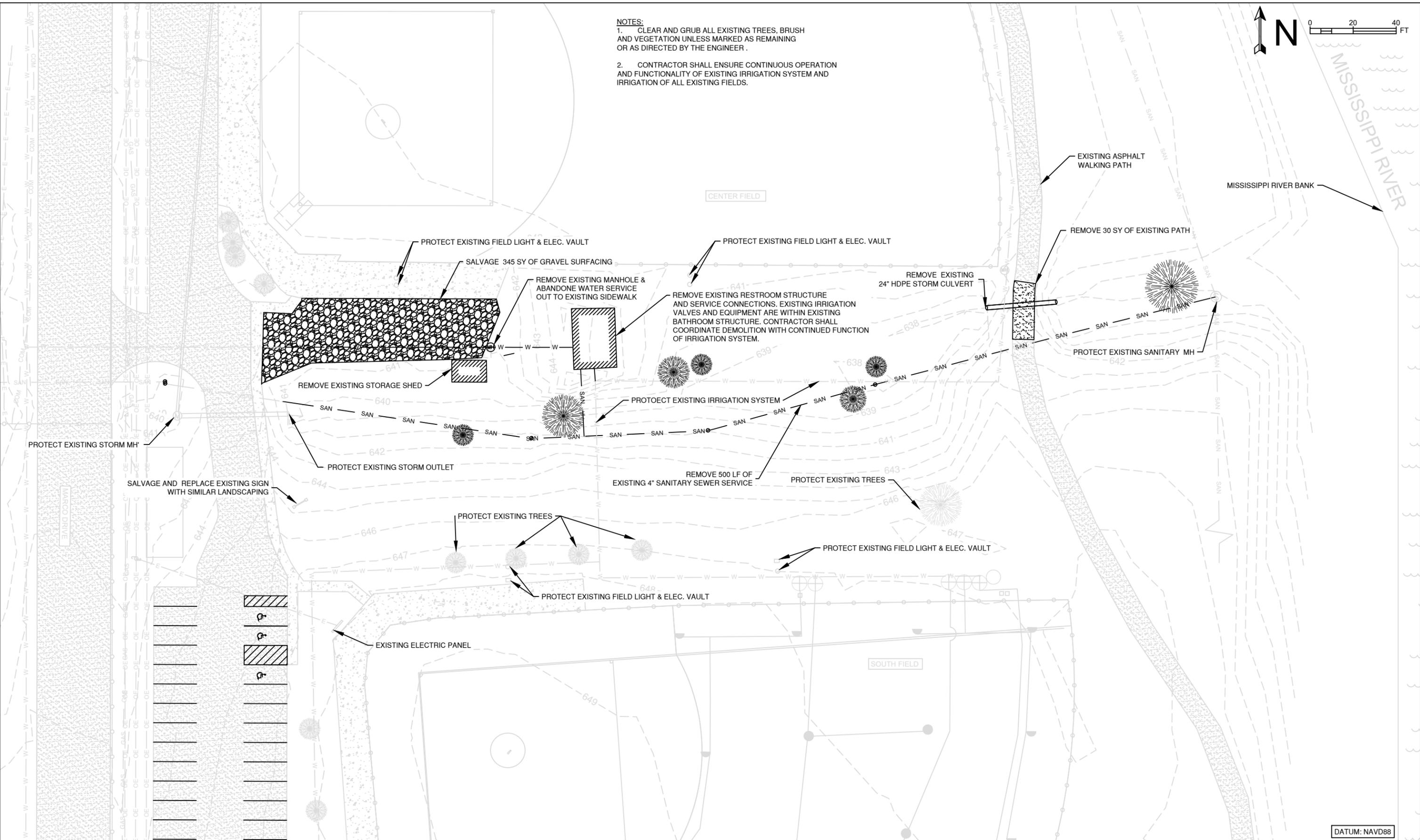
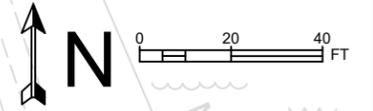
MECHANICAL SCHEDULES

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- NOTES:**
1. CLEAR AND GRUB ALL EXISTING TREES, BRUSH AND VEGETATION UNLESS MARKED AS REMAINING OR AS DIRECTED BY THE ENGINEER.
 2. CONTRACTOR SHALL ENSURE CONTINUOUS OPERATION AND FUNCTIONALITY OF EXISTING IRRIGATION SYSTEM AND IRRIGATION OF ALL EXISTING FIELDS.



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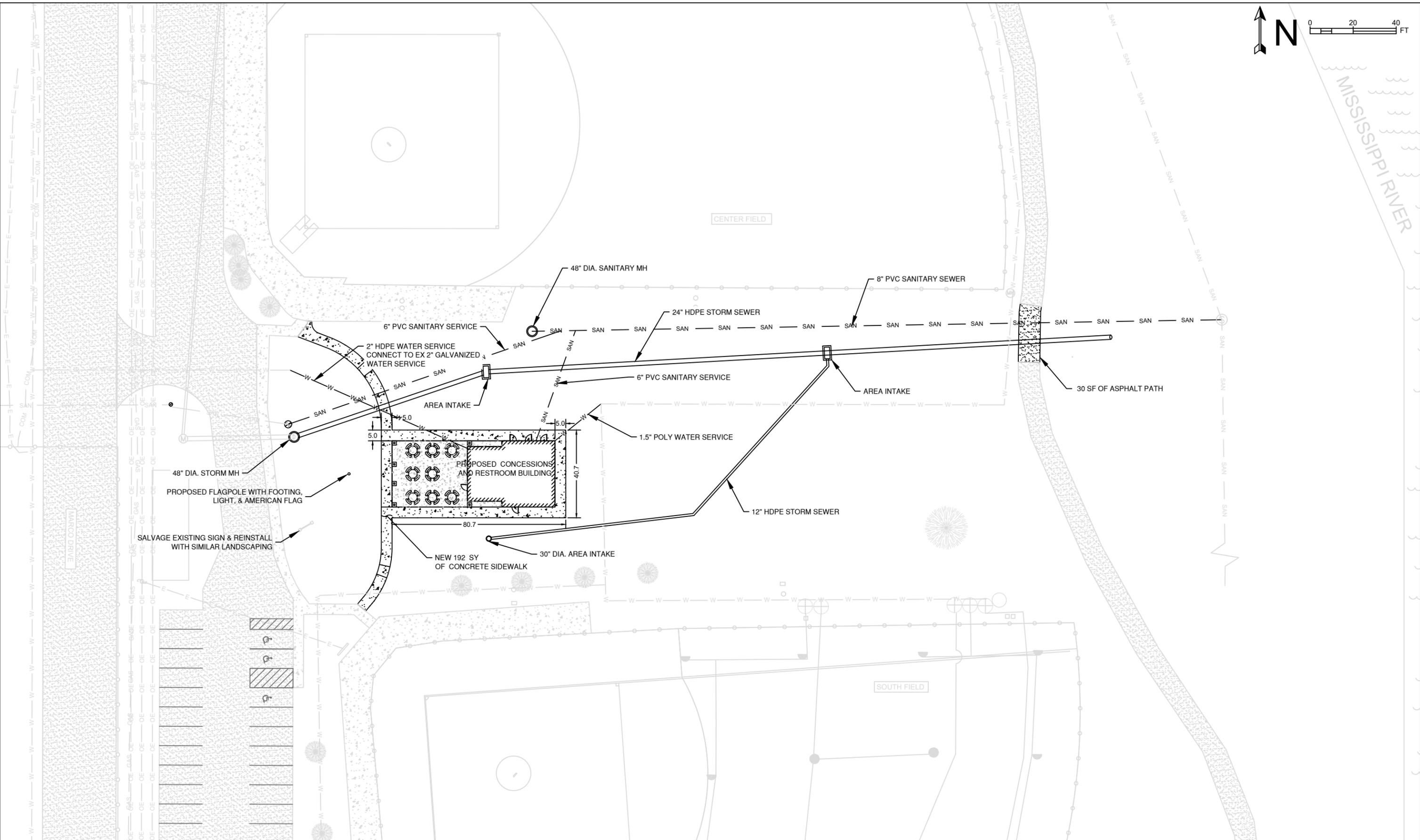
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SITE REMOVALS & EXISTING CONDITIONS

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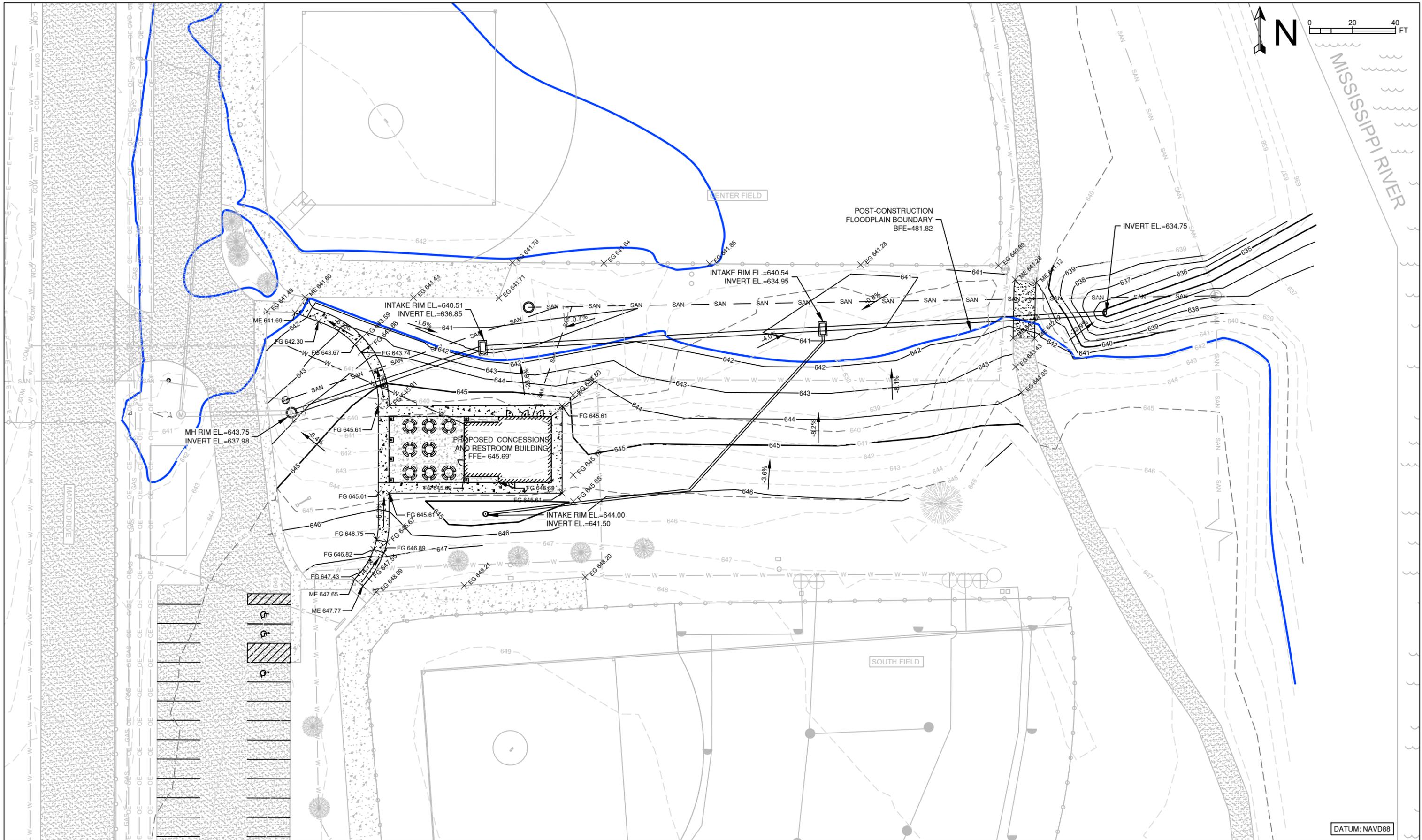
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SITE PLAN

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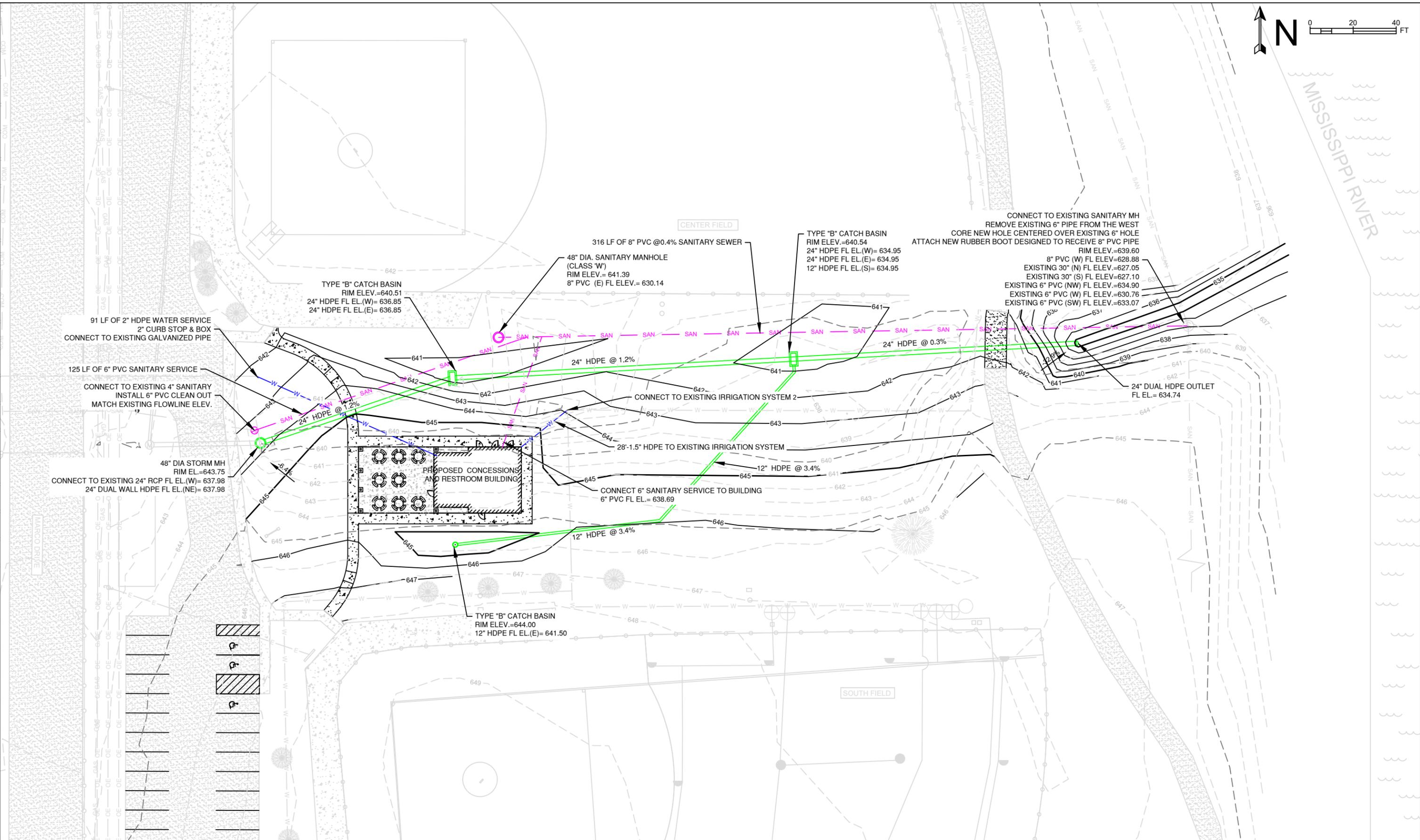
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GRADING PLAN

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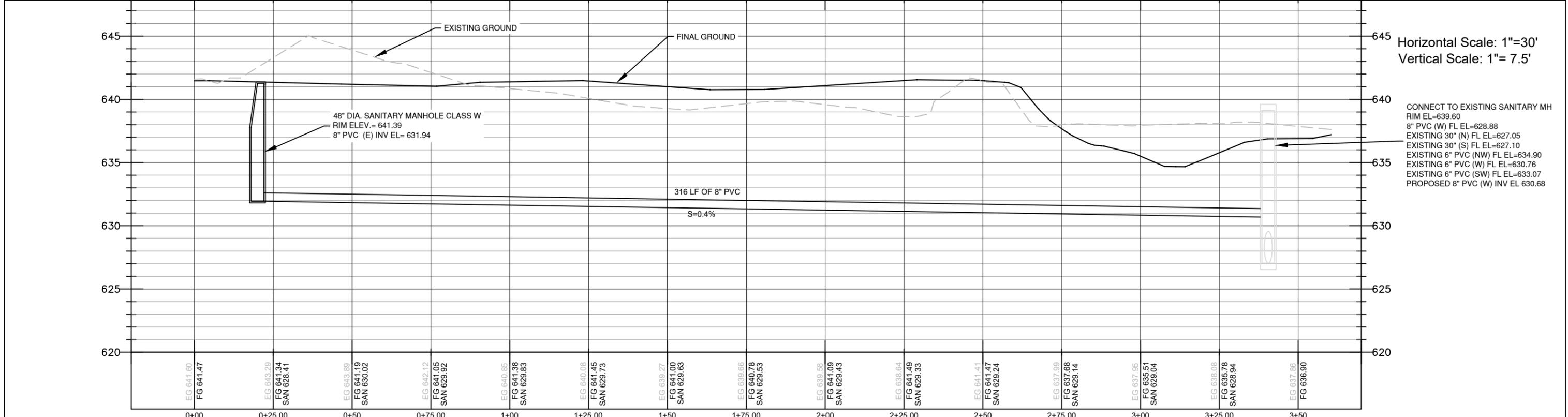
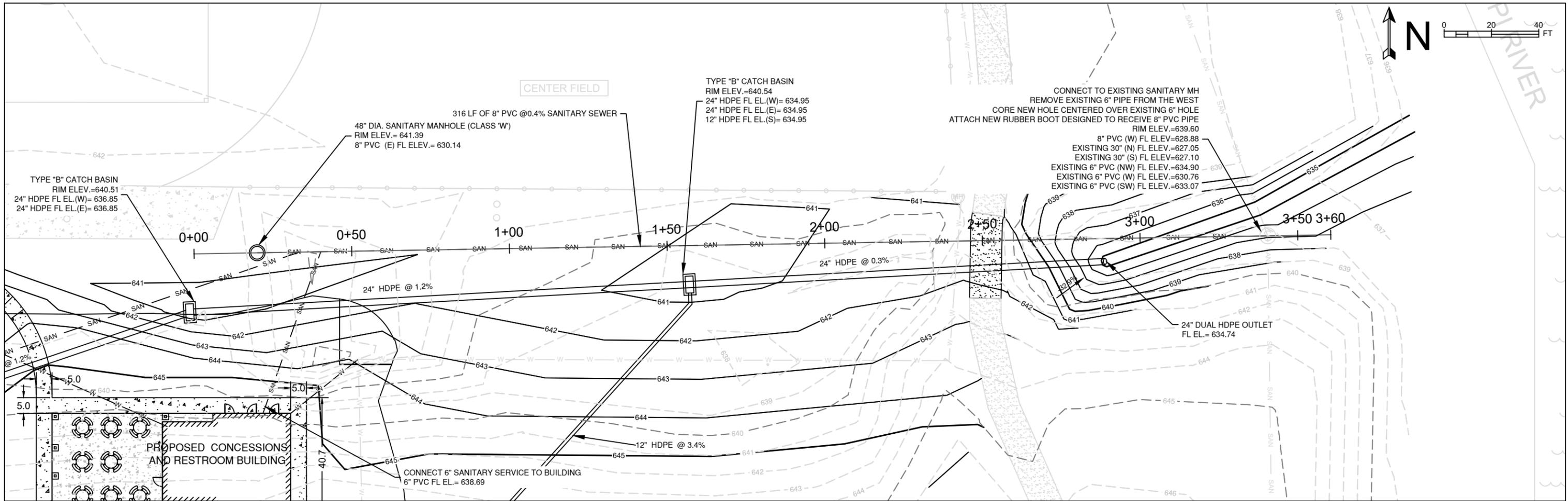
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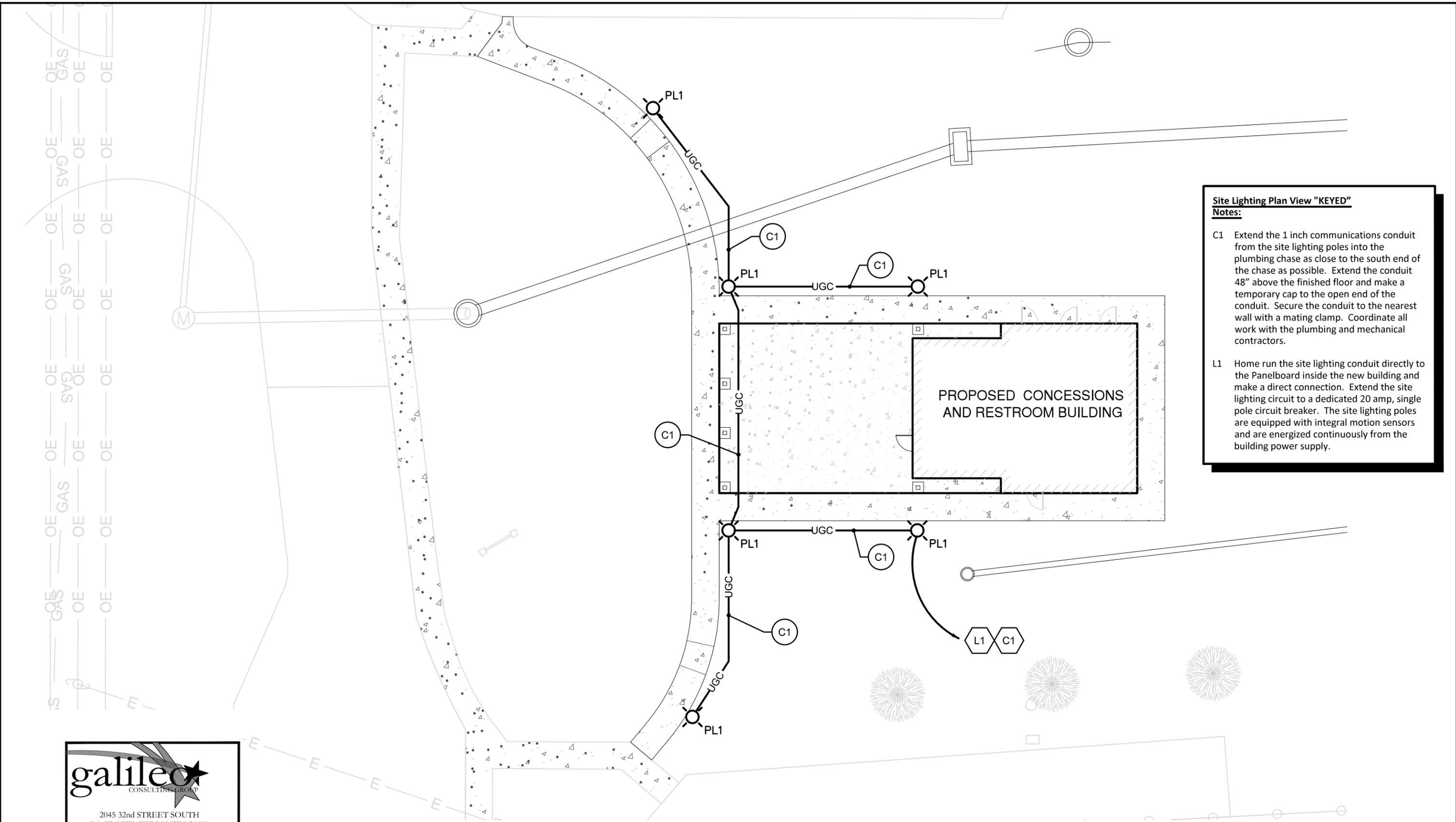
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SITE UTILITIES

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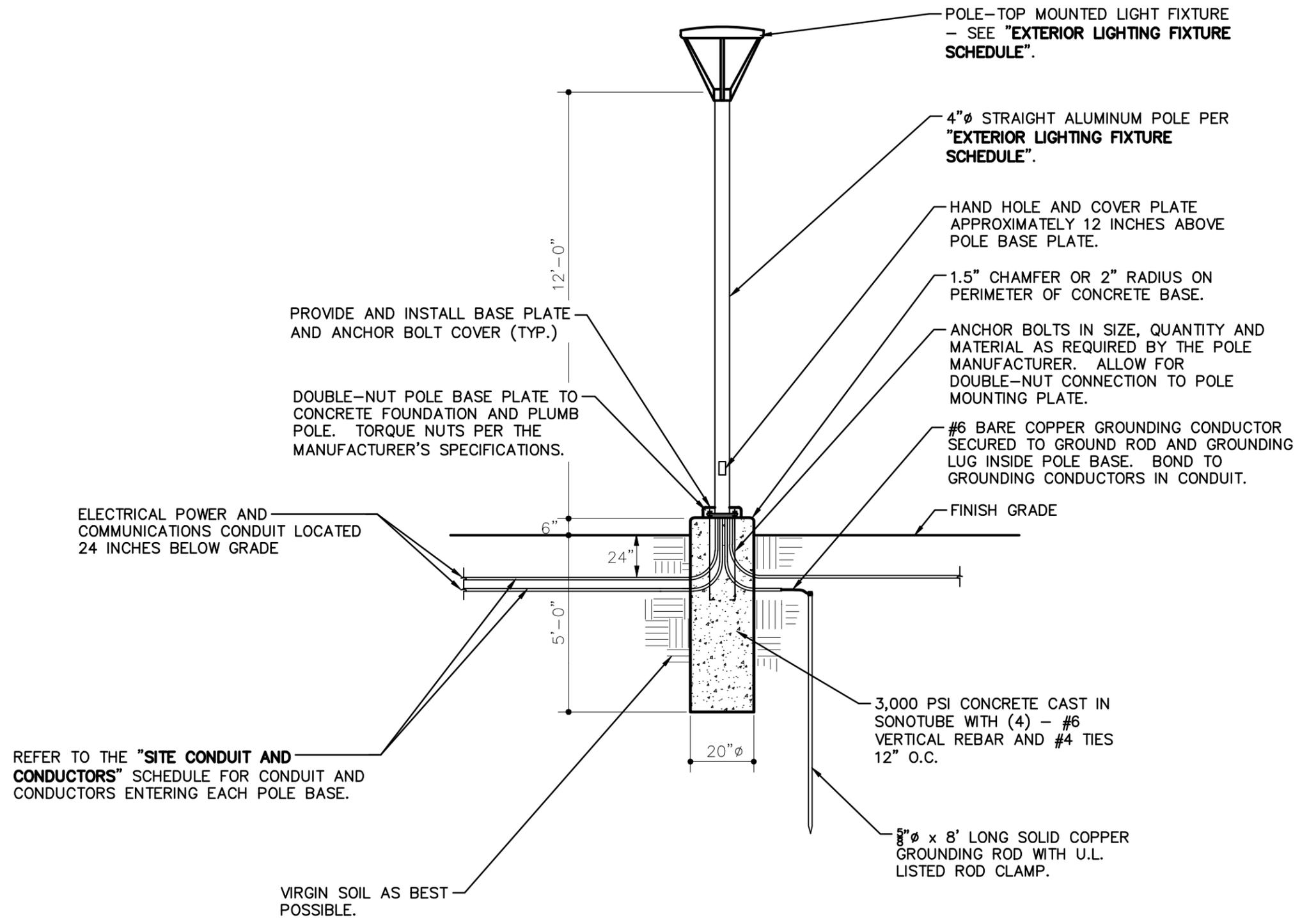
Site Lighting Plan View "KEYED"
Notes:

- 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.

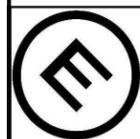
2045 32nd STREET SOUTH
 LA CROSSE, WISCONSIN 54601
 PHONE: (608) 787-9106 FAX: (608) 787-8995
 E-MAIL: colson@galileo-group.us

1 SITE LIGHTING PLAN VIEW
 X SCALE: 1/16" = 1'-0"

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



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SITE LIGHTING DETAILS

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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										
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	REMARKS
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

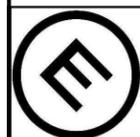
CONDUIT RUN IDENTIFICATION	LINE VOLTAGE CONDUIT AND CONDUCTORS									
	CONDUIT SIZE	CONDUIT MATERIAL	LIGHTING CONDUCTORS	VOLTAGE	No. of LIGHTING CIRCUITS	POWER CONDUCTORS	POWER CONDUCTOR USE	VOLTAGE	No. of POWER CIRCUITS	
C1	1"	Schedule 40 PVC	(2) - #10 XHHW-2 Copper and #10 Copper Grnd. To "PL1" poles	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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SITE LIGHTING SCHEDULES

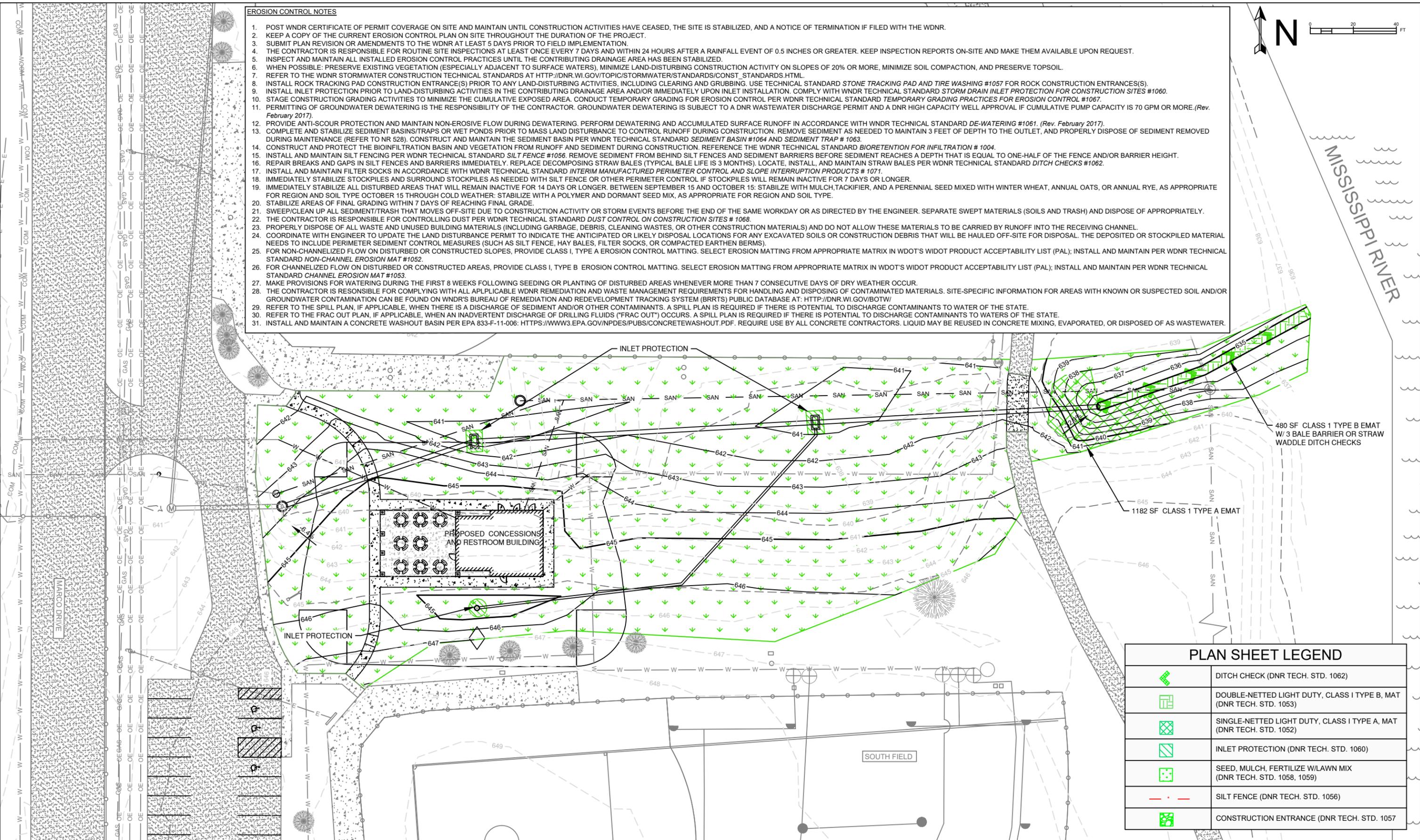
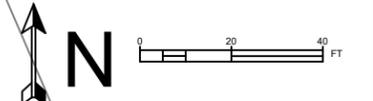
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EROSION CONTROL NOTES

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/npdes/pubs/concretewashout.pdf). REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER.



480 SF CLASS 1 TYPE B EMAT
W/ 3 BALE BARRIER OR STRAW
WADDLE DITCH CHECKS

1182 SF CLASS 1 TYPE A EMAT

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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EROSION CONTROL PLAN

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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.

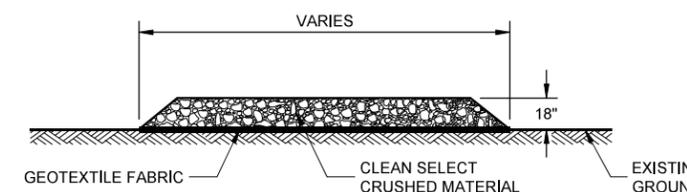
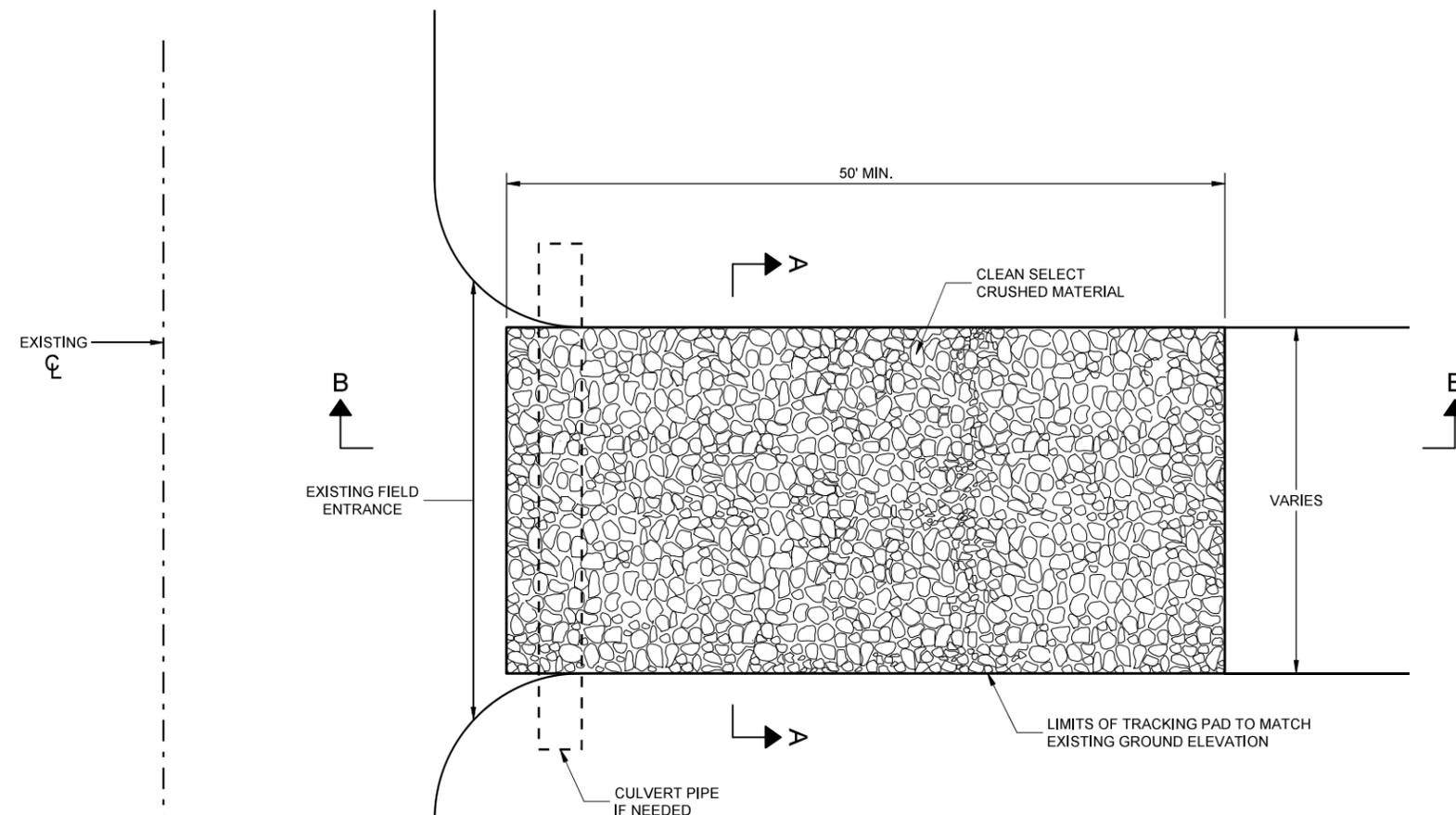
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

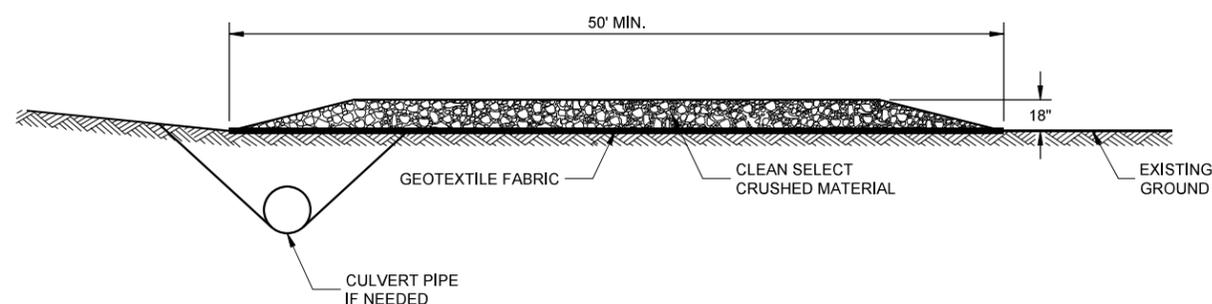
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

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	/s/ Jerry H. Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER

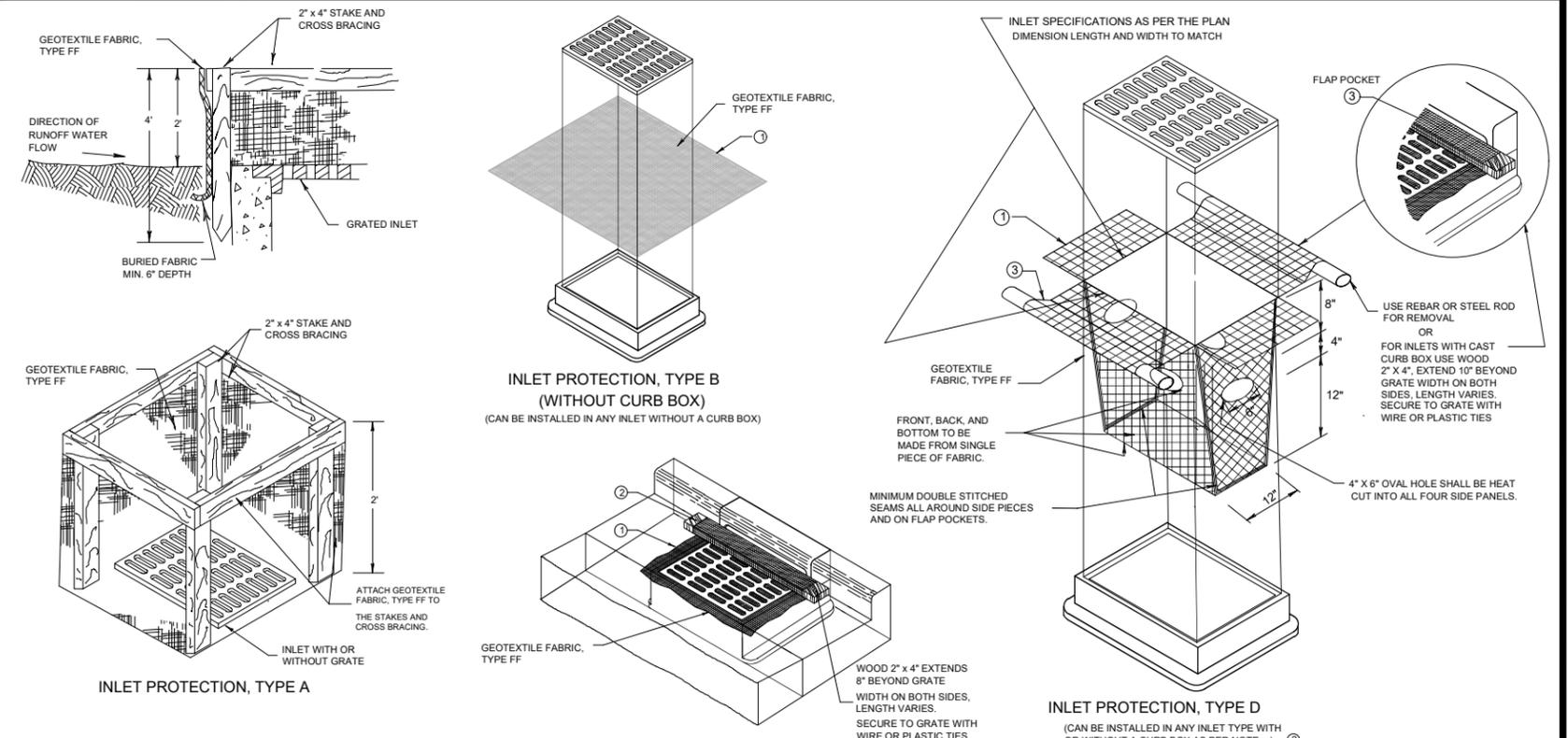
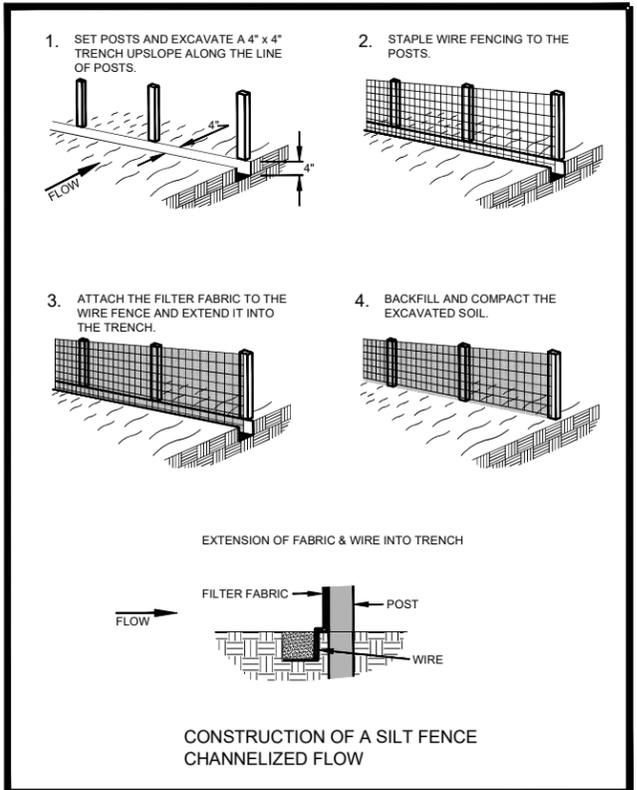
FHWA

6

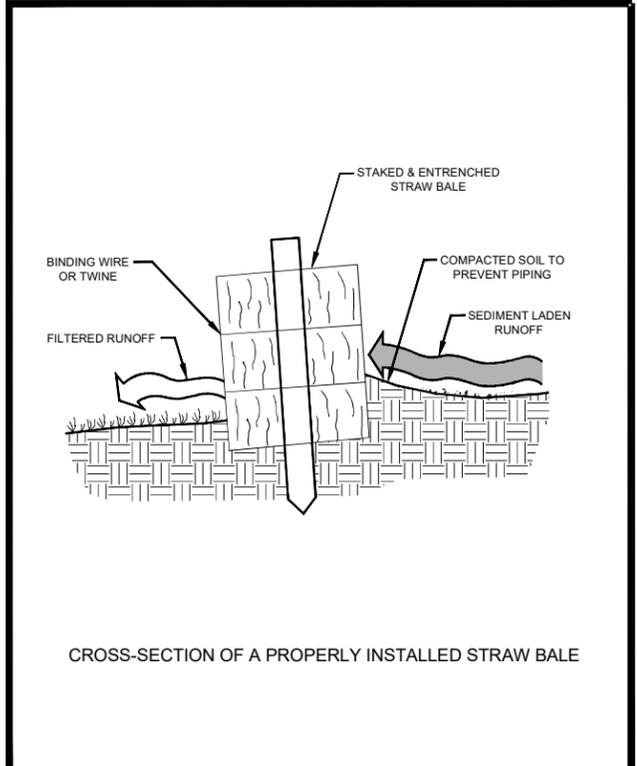
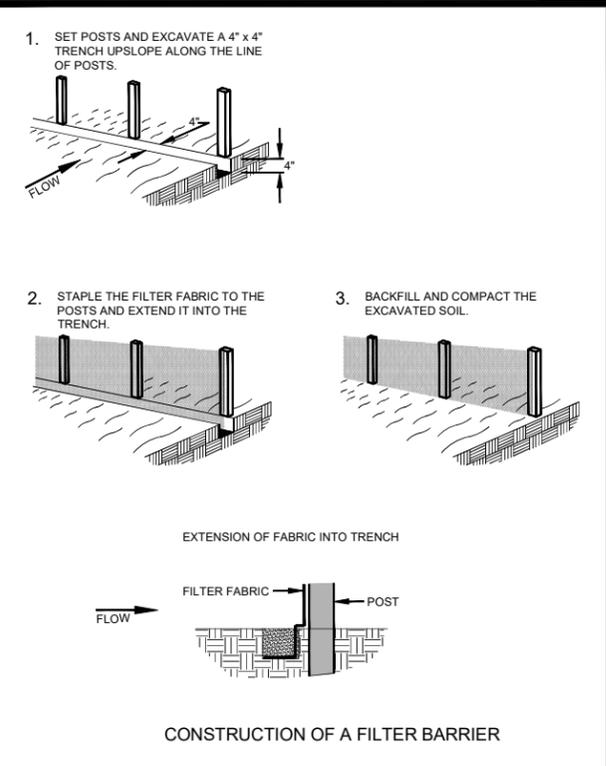
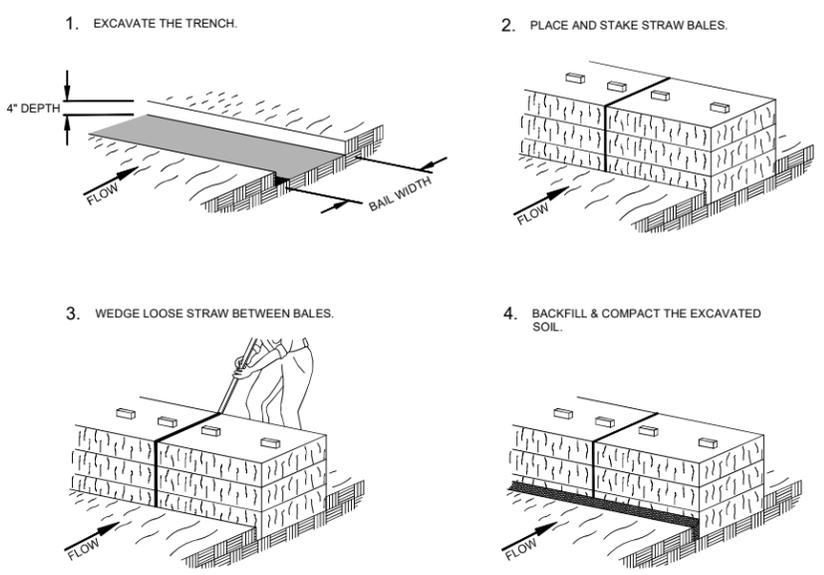
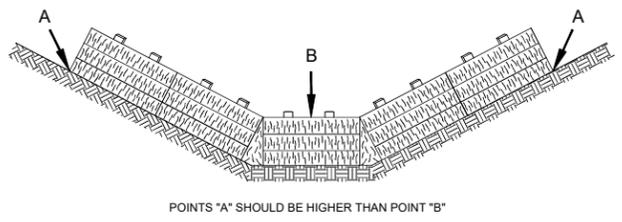
6

SDD 08E14 - 01

SDD 08E14 - 01

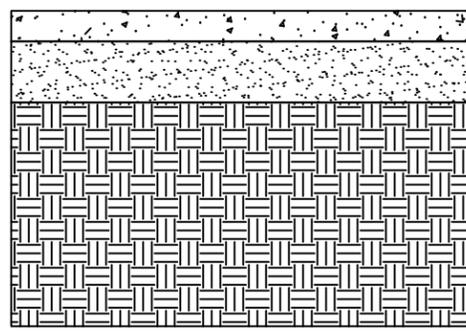


PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



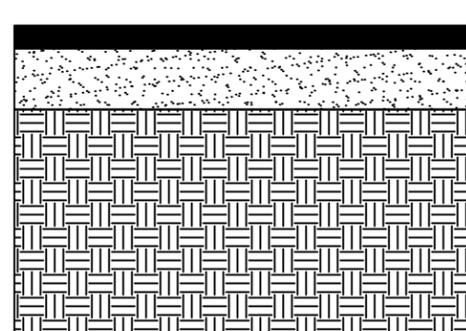
This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

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
NUMBER	DRAWN	PRELIMINARY	
	CHECKED	FINAL	JMC 2/2009
PAGE	APPROVED	REVISIONS	
SHEET NO.	TOTAL SHEETS		



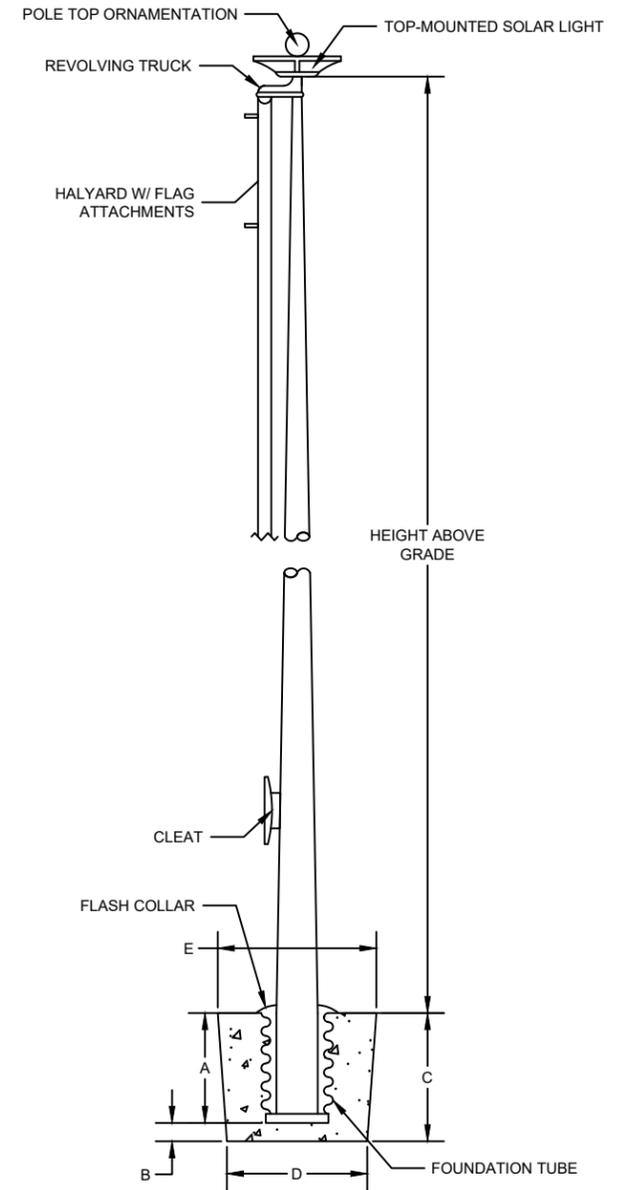
4" CONCRETE SIDEWALK
 GRANULAR BACKFILL
 DEPTH VARIES
 COMPACT TO 100% STANDARD PROCTOR DENSITY
 EXISTING GROUND
 PROOF ROLL & REPLACE UNSUITABLE MATERIAL WITH
 GRANULAR BACKFILL

CONCRETE
SIDEWALK

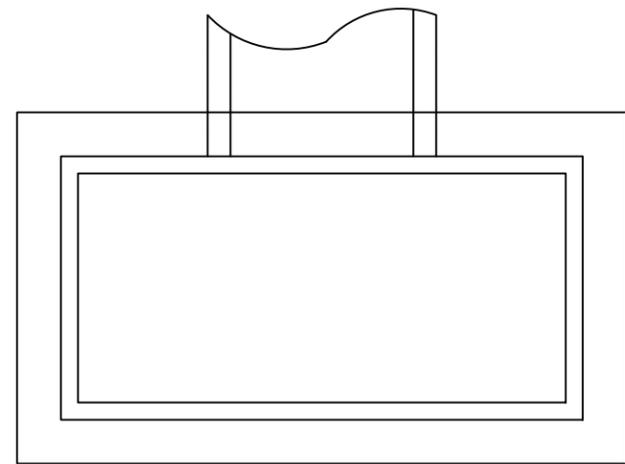


3" HMA PAVEMENT
 GRANULAR BACKFILL
 DEPTH VARIES
 COMPACT TO 100% STANDARD PROCTOR DENSITY
 EXISTING GROUND
 PROOF ROLL & REPLACE UNSUITABLE MATERIAL WITH
 GRANULAR BACKFILL

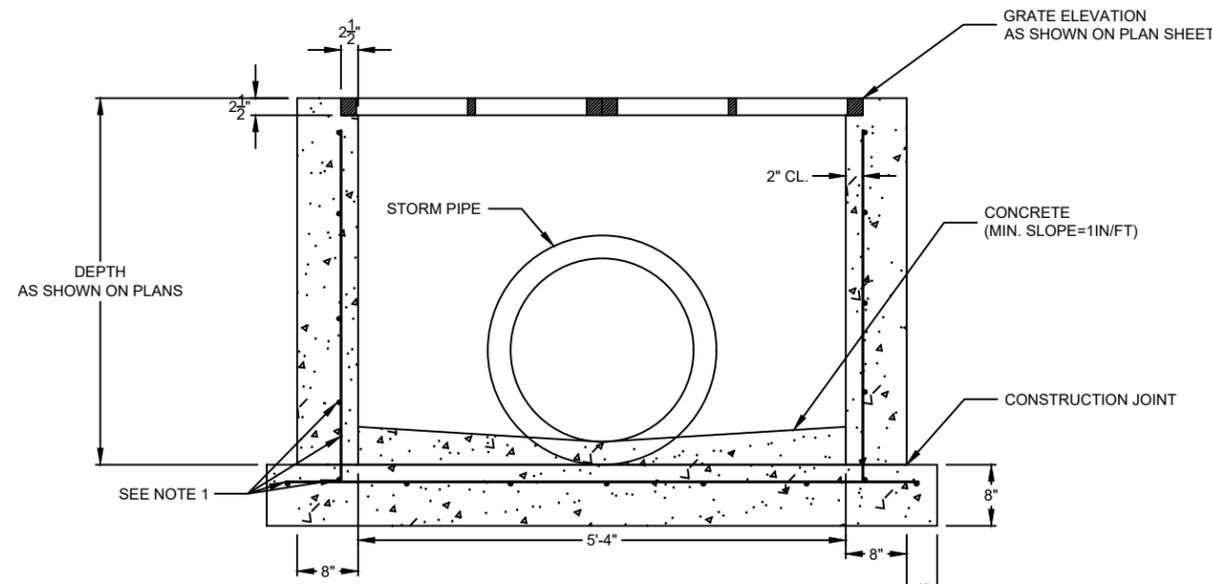
HMA
PATH



FLAG POLE INSTALLATION



PLAN VIEW



60" X 30"
GRATE INLET

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



200 MASON STREET #3
 ONALASKA, WI 54650
 608.881.6030

2023 CARROLL PARK IMPROVEMENTS
 PARKS, RECREATION & FORESTRY
 CITY OF LACROSSE, WI 54601

1/13/2023

CONSTRUCTION DETAILS

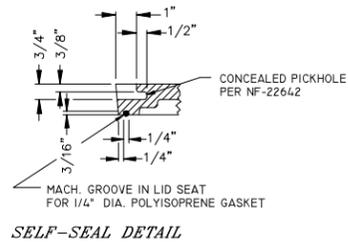
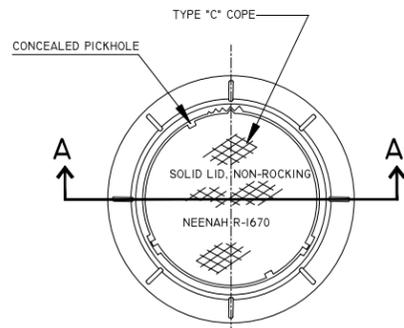
DATE	REVISION	DESCR.

35
36

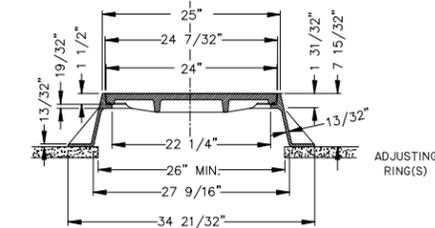
DRAWING
NOT TO SCALE

SEWER PIPE JOINT MATERIALS

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

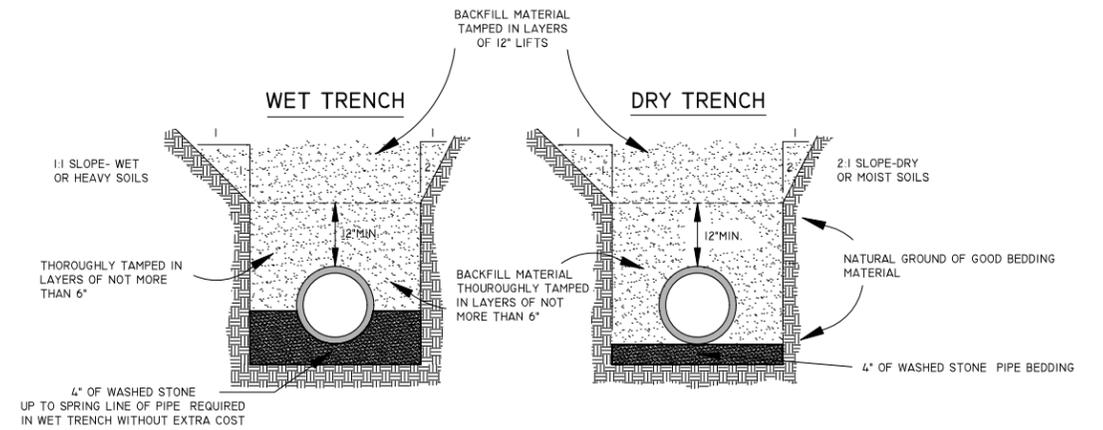
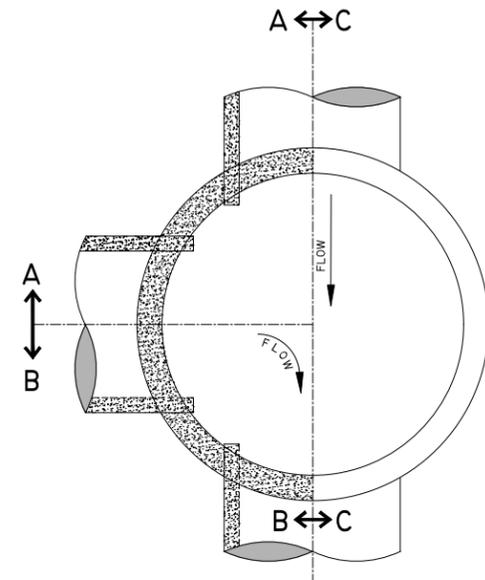
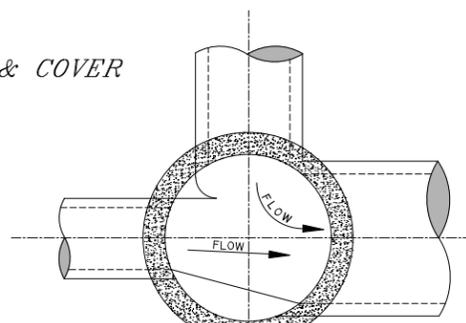


NOTE
OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.



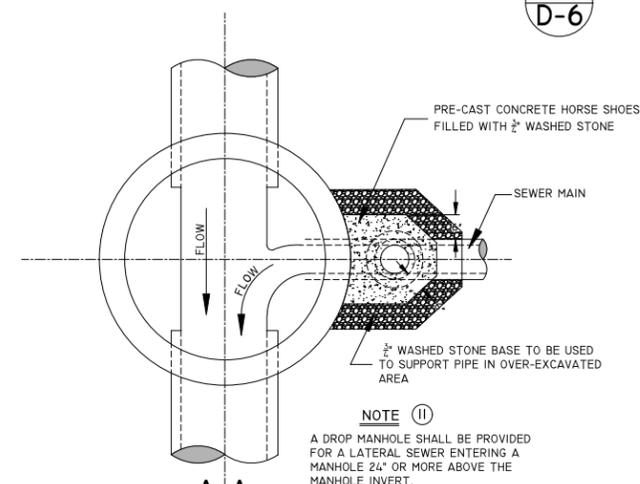
A - A
DETAIL OF MANHOLE FRAME & COVER
(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL

B
D-6

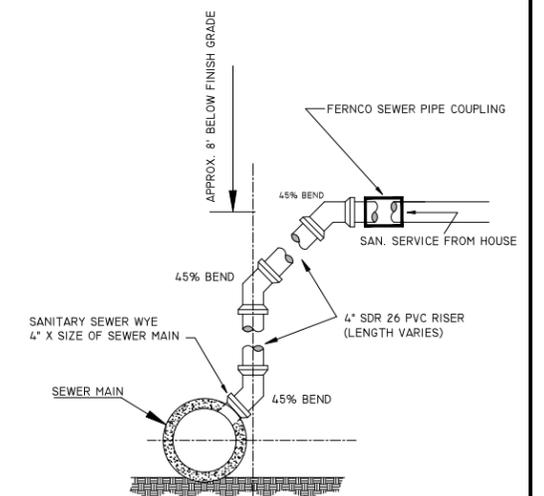


DETAILS OF SEWER TRENCHES

A
D-6

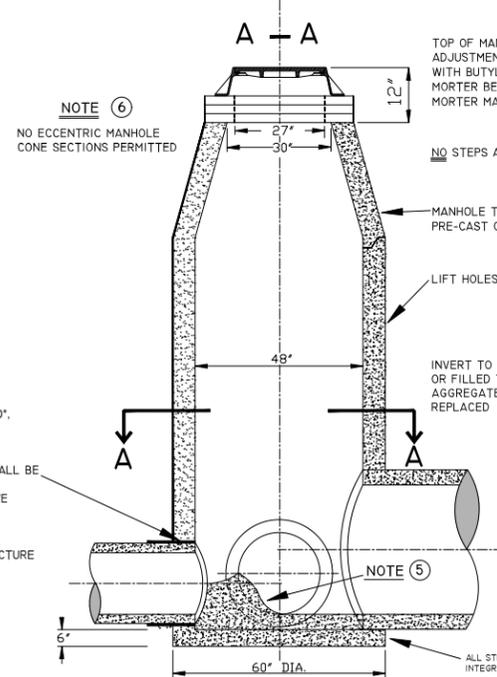


NOTE 11
A DROP MANHOLE SHALL BE PROVIDED FOR A LATERAL SEWER ENTERING A MANHOLE 24\"/>

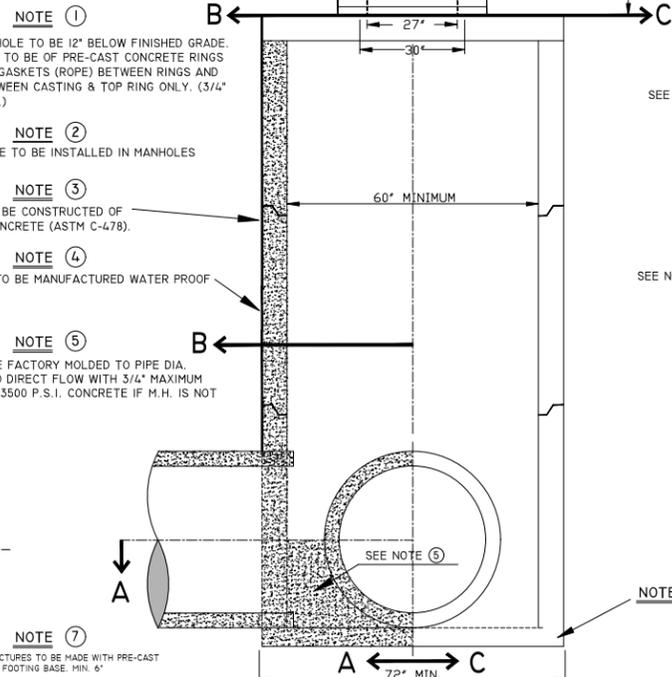


DETAILS OF RISER FOR HOUSE CONNECTION

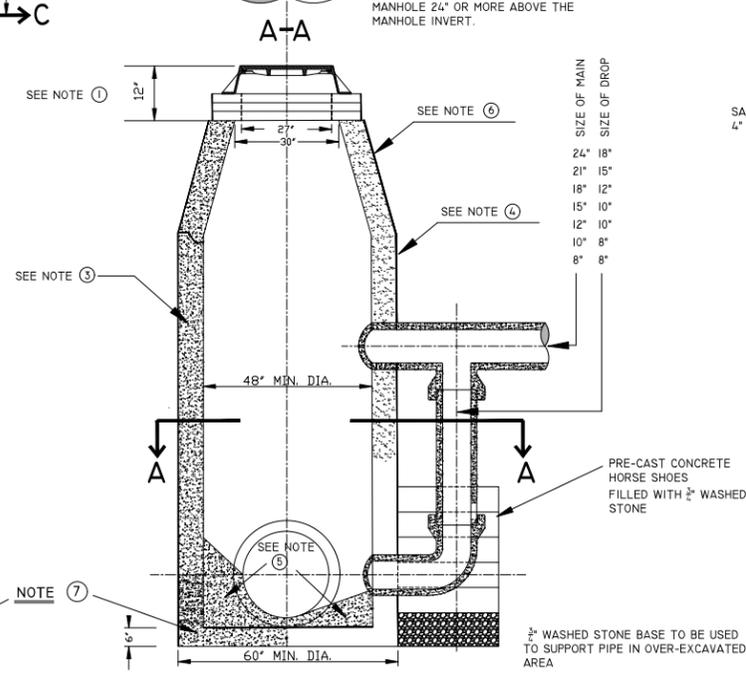
F
D-6



C
D-6 **DETAILS OF STANDARD MANHOLE FOR 30\"/>**



D
D-6 **DETAILS OF STANDARD MANHOLE FOR 36\"/>**



E
D-6 **DETAILS OF DROP MANHOLE FOR 30\"/>**

NOTE 12
THE CONNECTION OF ALL PVC SANITARY SEWER PIPE, SIZE 6\"/>

THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1600 PSI

THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE

NOTE 1
TOP OF MANHOLE TO BE 12\"/>

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\"/>

NOTE 6
NO ECCENTRIC MANHOLE CONE SECTIONS PERMITTED

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

NOTE 1

NOTE 3

NOTE 4

NOTE 5

NOTE 6

NOTE 7

SIZE OF MAIN
SIZE OF DROP

24"	18"
21"	15"
18"	12"
15"	10"
12"	10"
10"	8"
8"	8"

PRE-CAST CONCRETE HORSE SHOES FILLED WITH 2\"/>

2\"/>

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