

THE MUNICIPAL AUTHORITY OF THE CITY OF SUNBURY

NORTHUMBERLAND COUNTY PENNSYLVANIA

SOLID WASTE TRANSFER STATION TONNAGE INCREASE - ROOF EXPANSION CONTRACT NO. 20-04 SEPTEMBER 2020

BOARD MEMBERS:

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MR. MICHAEL KERSTETTER	- SOLID WASTE DEPARTMENT MANAGER



OWNER _____ DATE _____

CONTRACTOR _____ DATE _____

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INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	COVER SHEET
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8	COLUMN PLAN
9	ROOF PLAN
10	ROOF STRUCTURE SECTIONS

LEGEND

EXISTING FEATURES	DESCRIPTION
	PROPERTY LINE
	EDGE OF PAVEMENT
	CONTOURS 1'
	EDGE OF GRAVEL
	SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
	STORMWATER PIPE W/INLET
	SANITARY SEWER W/MANHOLE
	WATER MAIN W/VALVE
	OVERHEAD ELECTRIC
	FENCE
	FIRE HYDRANT
	BUILDING
	CONCRETE
	LAMP POST

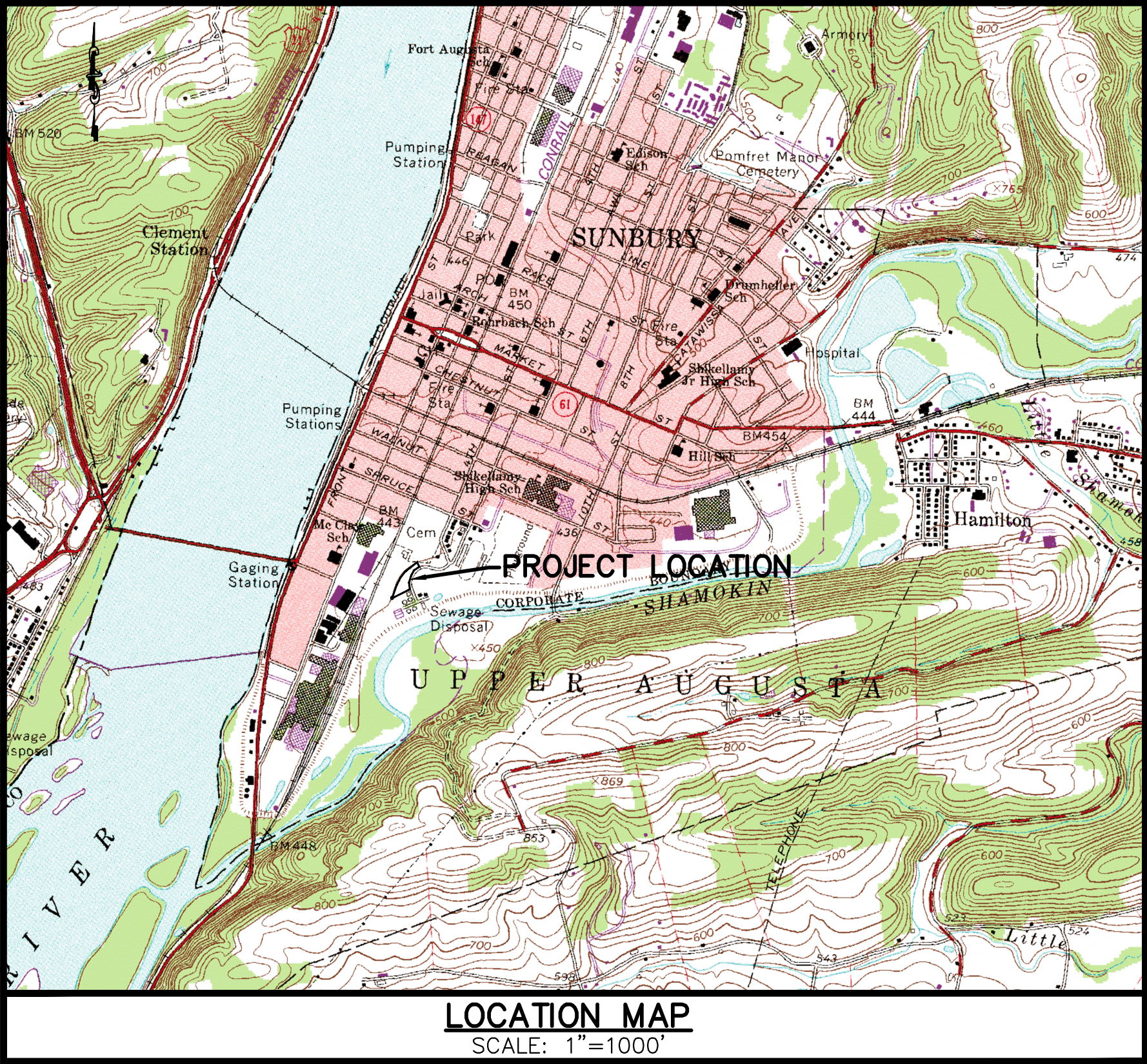
PROPOSED FEATURES	DESCRIPTION
	LEACHATE TRENCH
	STORMWATER LINE
	SILT FENCE
	INLET PROTECTION

DETAIL INDEXING METHODOLOGY	
SHEET S1-01	SHEET S1-03
SECTION INDEXING METHODOLOGY	
SHEET A1-01	SHEET A1-03

SURVEYS AND BENCHMARKS

SURVEY DATA IS BASED ON FIELD SURVEY CONDUCTED BY
KEEFER AND ASSOCIATES, INC., 200 SOUTH SECOND STREET
SUNBURY, PA 17801

- HORIZONTAL DATUM IS BASED ON:
PA STATE PLANE NORTH ZONE (NAD 1983)
- VERTICAL DATUM IS BASED ON:
NAVD 88
- PROJECT BENCHMARKS
 - BM NO. 1
ELEVATION: 432.94
DESCRIPTION: A CHISELED SQUARE ON TOP OF CONCRETE SIDEWALK AND
BEING 3 INCHES NORTHEAST OF THE SOUTHWEST CORNER OF THE
CONCRETE SIDEWALK AROUND THE WEIGHT SCALES.



BEFORE YOU DIG ANYWHERE IN
PENNSYLVANIA ! CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY

PA UNDERGROUND UTILITY LINE PROTECTION LAW
PA ACT 287 OF 1974 AS AMENDED

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- CONTRACTOR SHALL NOTIFY THE PA. ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLACE THE CALL AND REFERENCE THE SERIAL NUMBER GIVEN, AND PROVIDE AN APPROXIMATE DATE AND TIME THAT DIGGING WILL OCCUR. THE ONE CALL SYSTEM WILL AGAIN NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR FOR ACTUAL FIELD LOCATES.

Phone No.:	1-800-242-1776	Serial No.	
WATER & SEWER:	MUNICIPAL AUTHORITY OF THE CITY OF SUNBURY 462 SOUTH FOURTH STREET SUNBURY, PA 17801	PHONE:	570-286-5858
GAS:	PG ENERGY RR#2 BOX 510 NORTHUMBERLAND, PA 17857	PHONE:	800-286-9650
ELECTRIC:	PPL P.O. BOX 152 NORTHUMBERLAND, PA 17857	PHONE:	570-286-0535
TELEPHONE:	AT&T P.O. BOX 132 SUNBURY, PA 17801	PHONE:	570-286-1032

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DATE
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JLB

CHECKED BY:
PJW

DRAWN BY:
JLH
09-11-20

REV. DESCRIPTION
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THE MUNICIPAL AUTHORITY
OF THE CITY OF SUNBURY
SOLID WASTE TRANSFER STATION
TONNAGE INCREASE - ROOF EXPANSION
CONTRACT NO. 20-04
INDEX OF DRAWINGS & LOCATION MAP

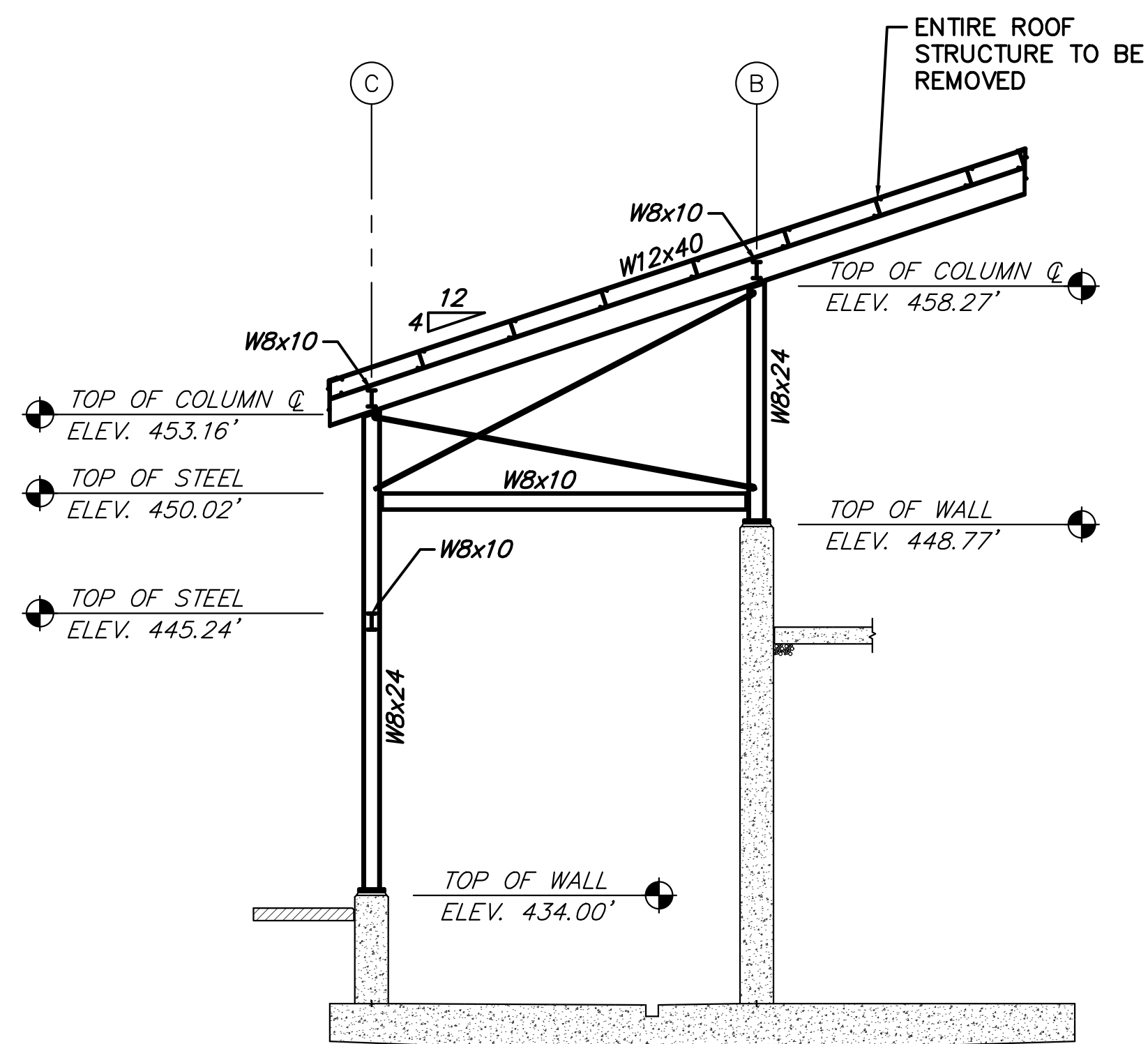
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PROJECT NO.
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SHEET NO.
2

DEMO PLAN

SCALE: $3/32"=1'-0'$



SCALE: $3/32"=1'-0"$



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TONNAGE INCREASE – ROOF EXPANSION

CONTRACT NO. 20-04

DEMO PLAN

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PROJECT NO.
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SHEET NO.
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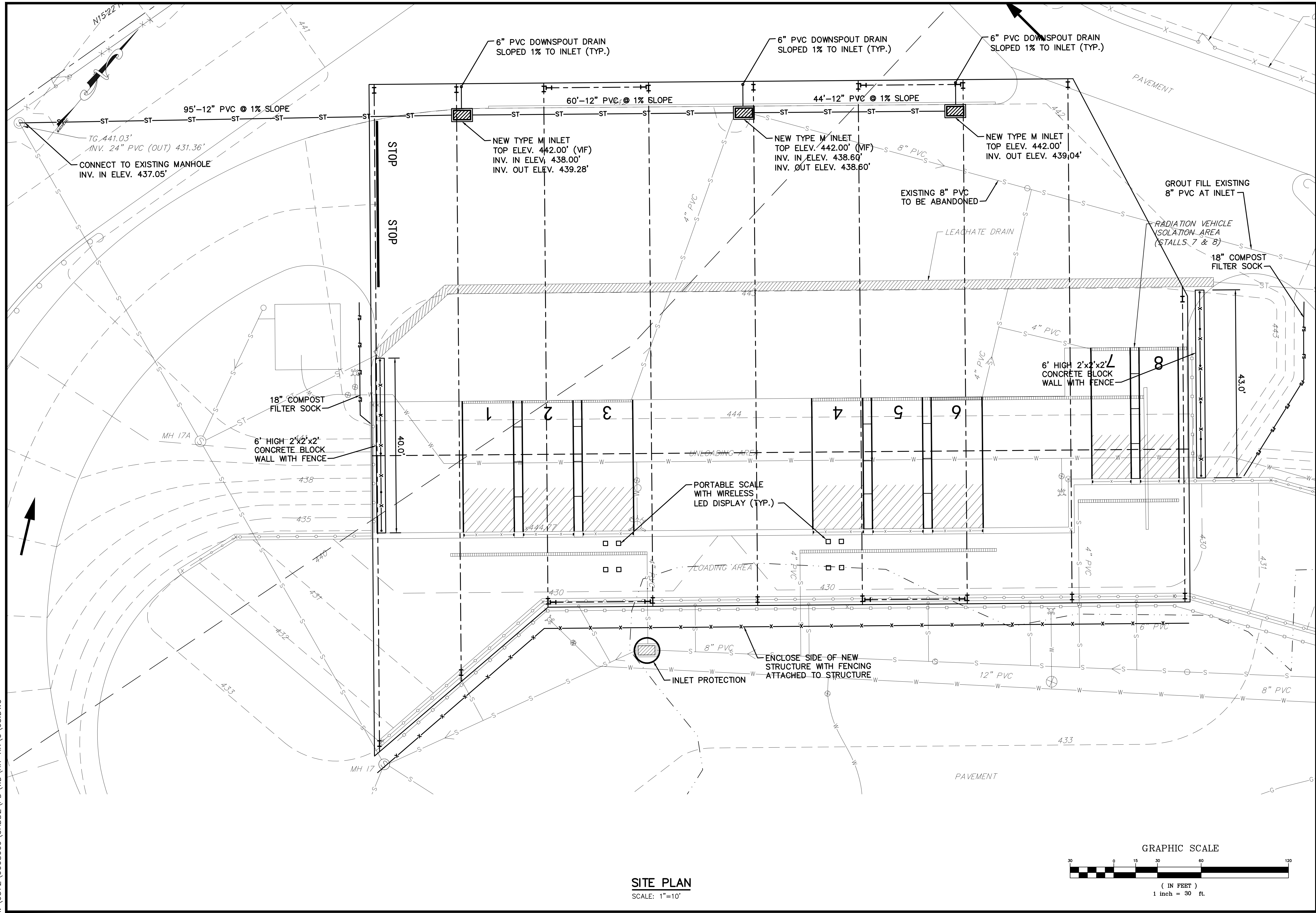
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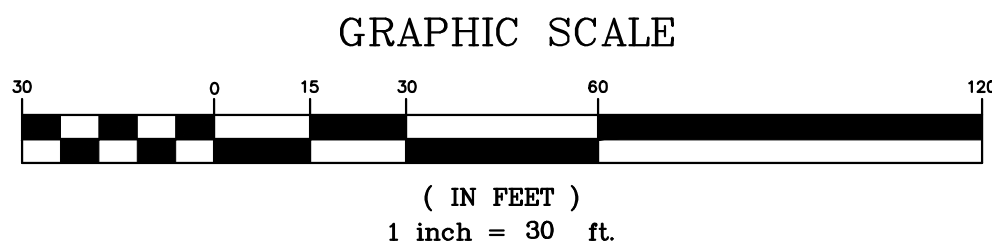
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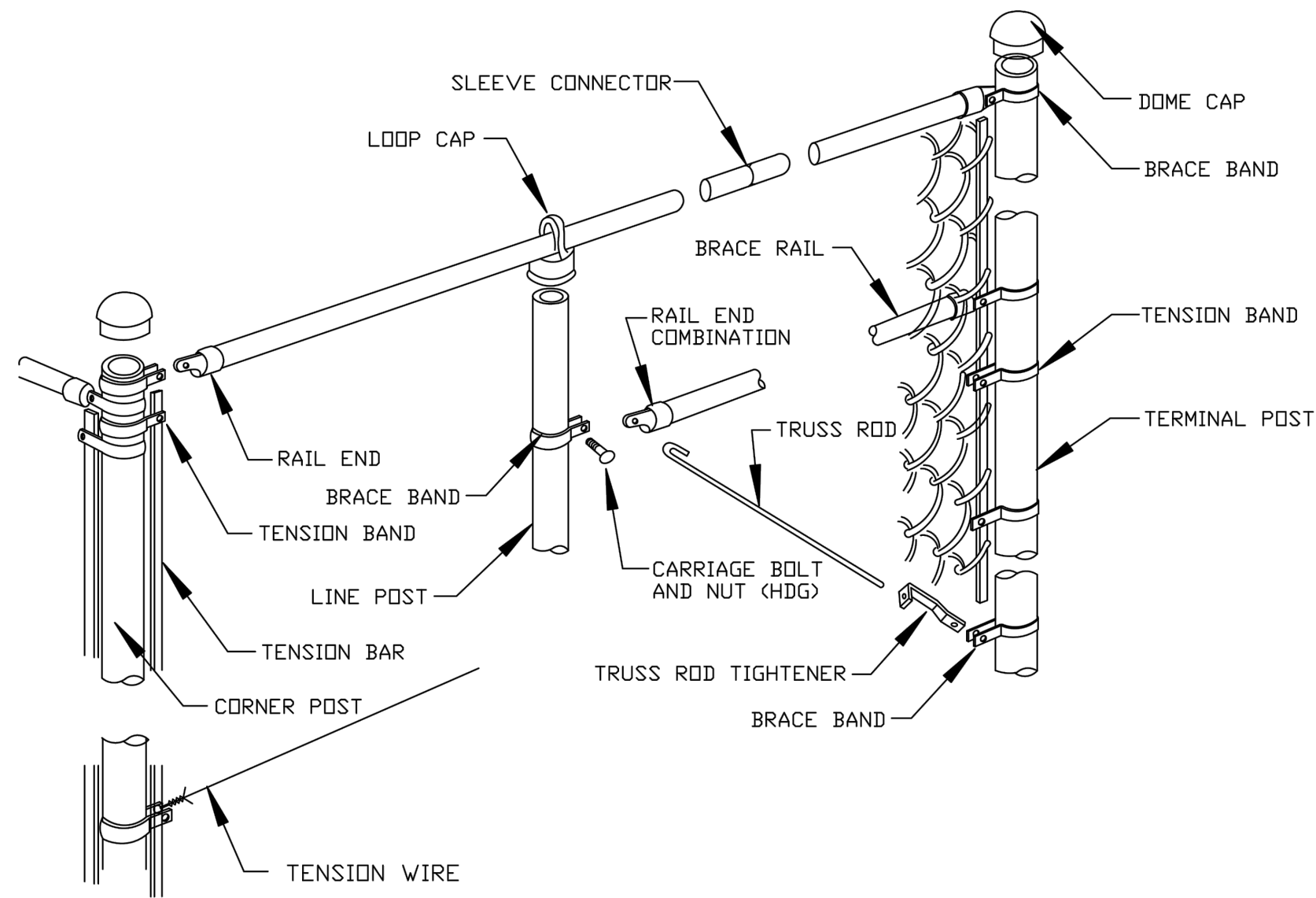


SITE PLAN
SCALE: 1"=30'



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CONTRACT NO. 20-04	
SITE AND E&S PLAN	
PROJECT NO. 0372008009	
SHEET NO. 5	

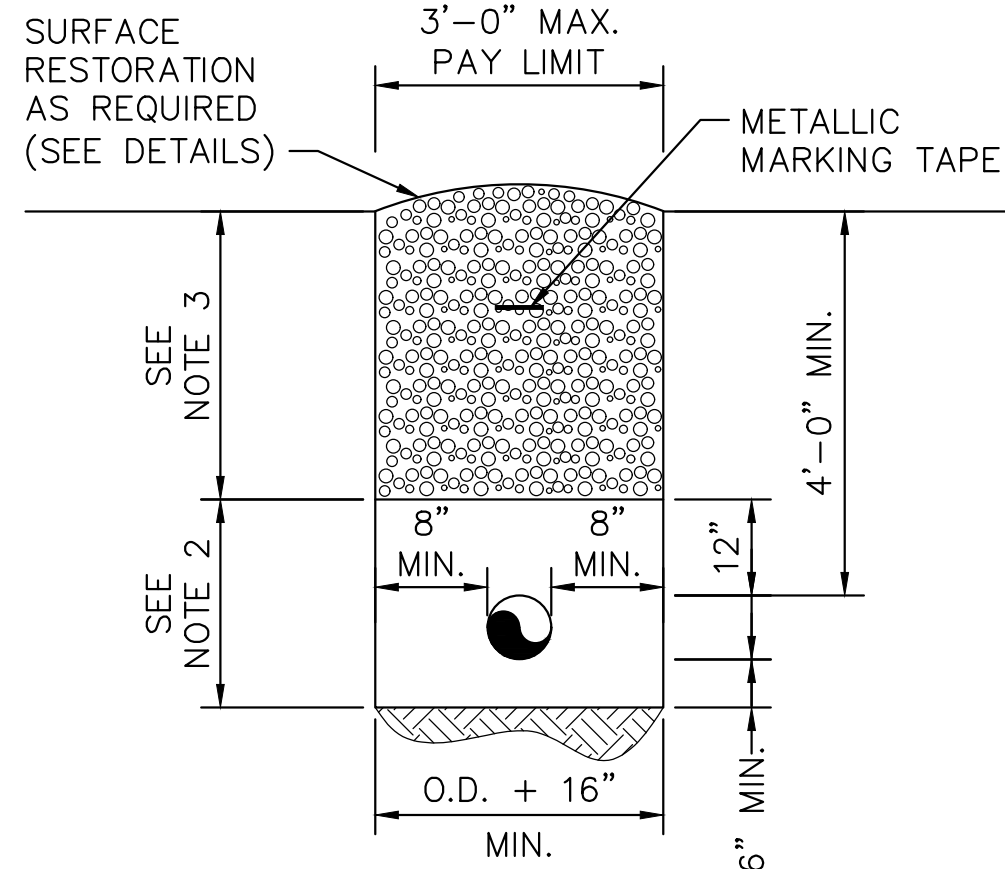
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TYPICAL FENCE SECTION

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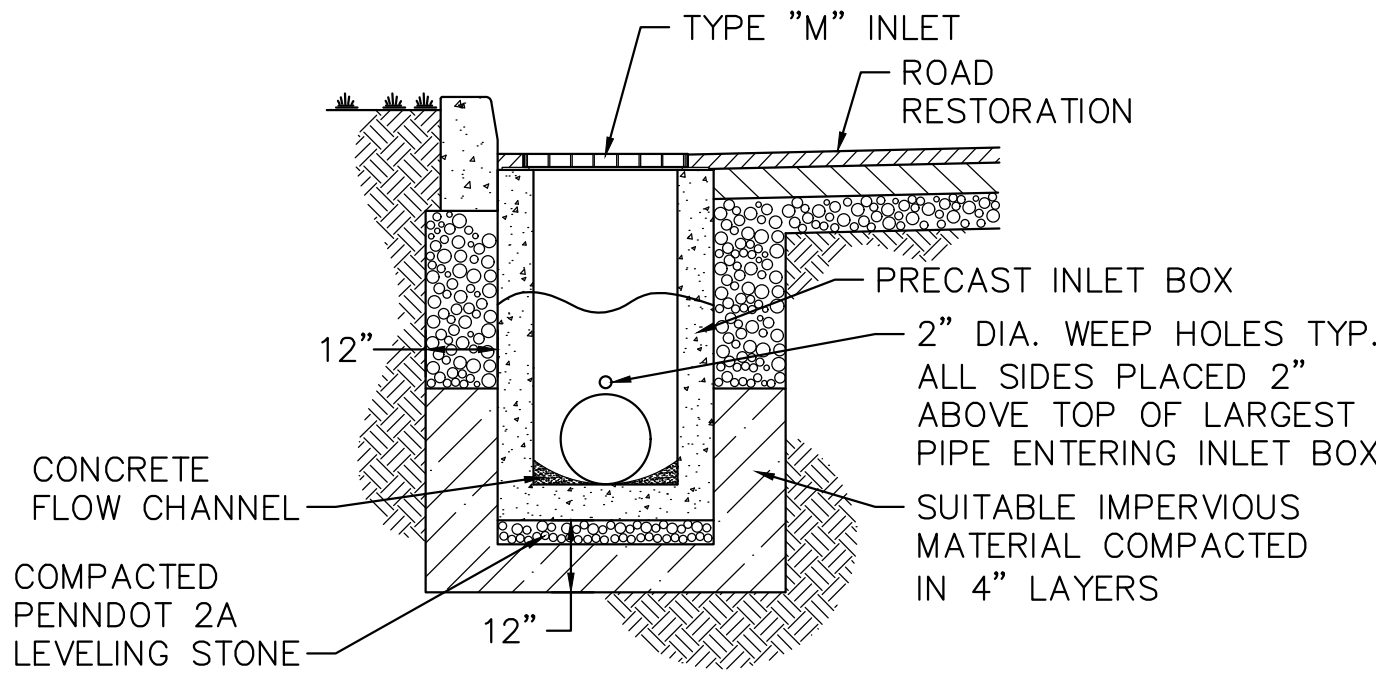
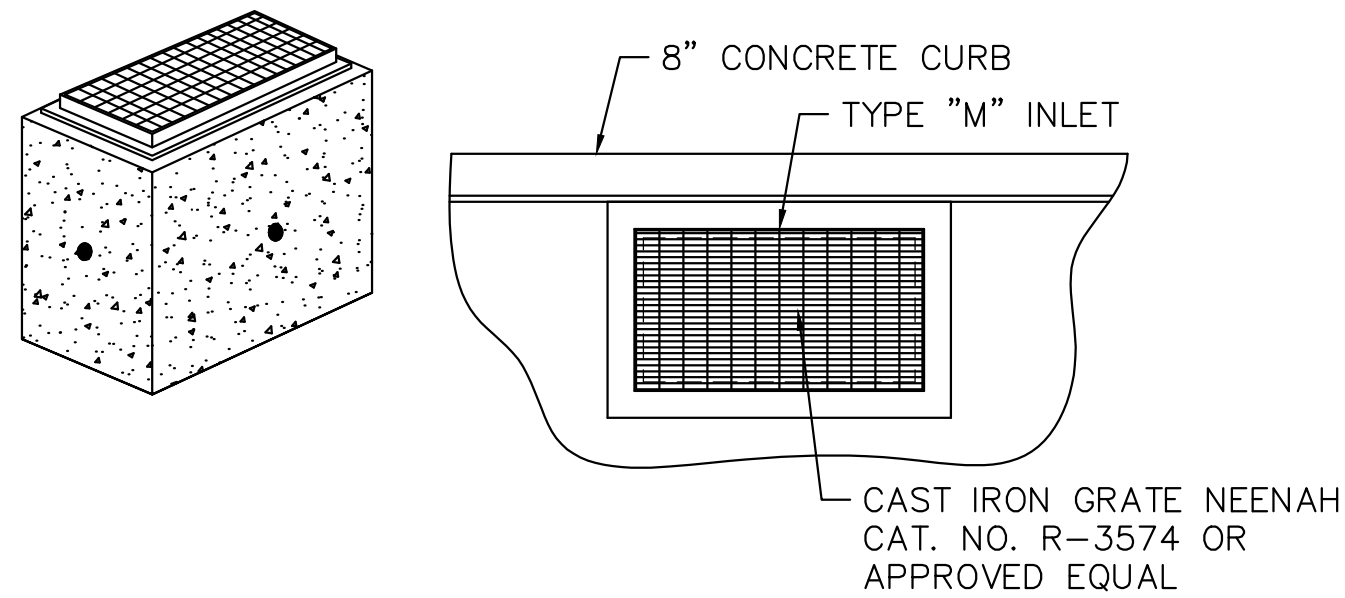
NOTES

1. PLACE BEDDING AND BACKFILL IN CONTINUOUS LAYERS NOT EXCEEDING 8 INCHES AND COMPACT TO 100% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. COMPACT ENTIRE DEPTH OF THE TRENCH.
2. PROVIDE PIPE BEDDING OF PENNDOT 2A STONE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
3. EXCAVATED NATIVE MATERIAL MAY BE USED FOR BACKFILL WHEN APPROVED BY ENGINEER, OTHERWISE BACKFILL WITH PENNDOT 2A STONE.
4. USE CONCRETE CRADLE OR CONCRETE ENCASEMENT WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY ENGINEER. PROVIDE CLASS C CONCRETE.
5. PROVIDE STEEL CASING FOR PIPE UNDER PENNDOT ROADWAYS AND WHEN REQUIRED BY ENGINEER. SEE STEEL CASING INSTALLATION DETAIL.
6. USE TYPE A BEDDING AND BACKFILL WHERE APPROVED BY ENGINEER.

NOT TO SCALE

PIPE BEDDING

2



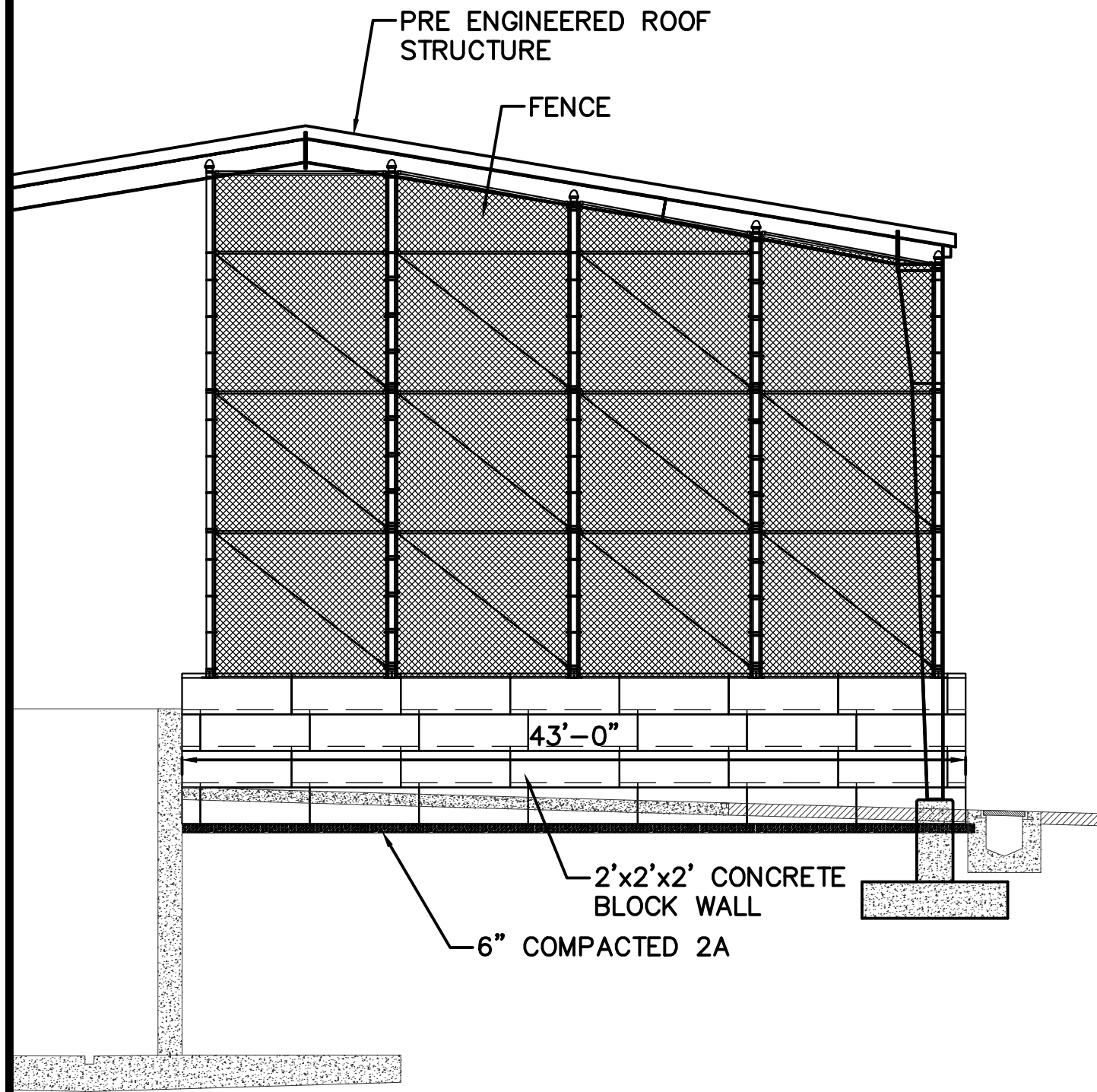
NOTES:

1. INLET BOXES, FRAMES, AND GRATES SHALL MEET PENNDOT PUB 72M, RC-45M AND RC-46M.
2. TOP OF INLET GRATE TO BE FLUSH WITH FINAL PAVEMENT. ENSURE PAVEMENT AREA DRAINS TO NEW INLETS.

NOT TO SCALE

TYPE "M" INLET

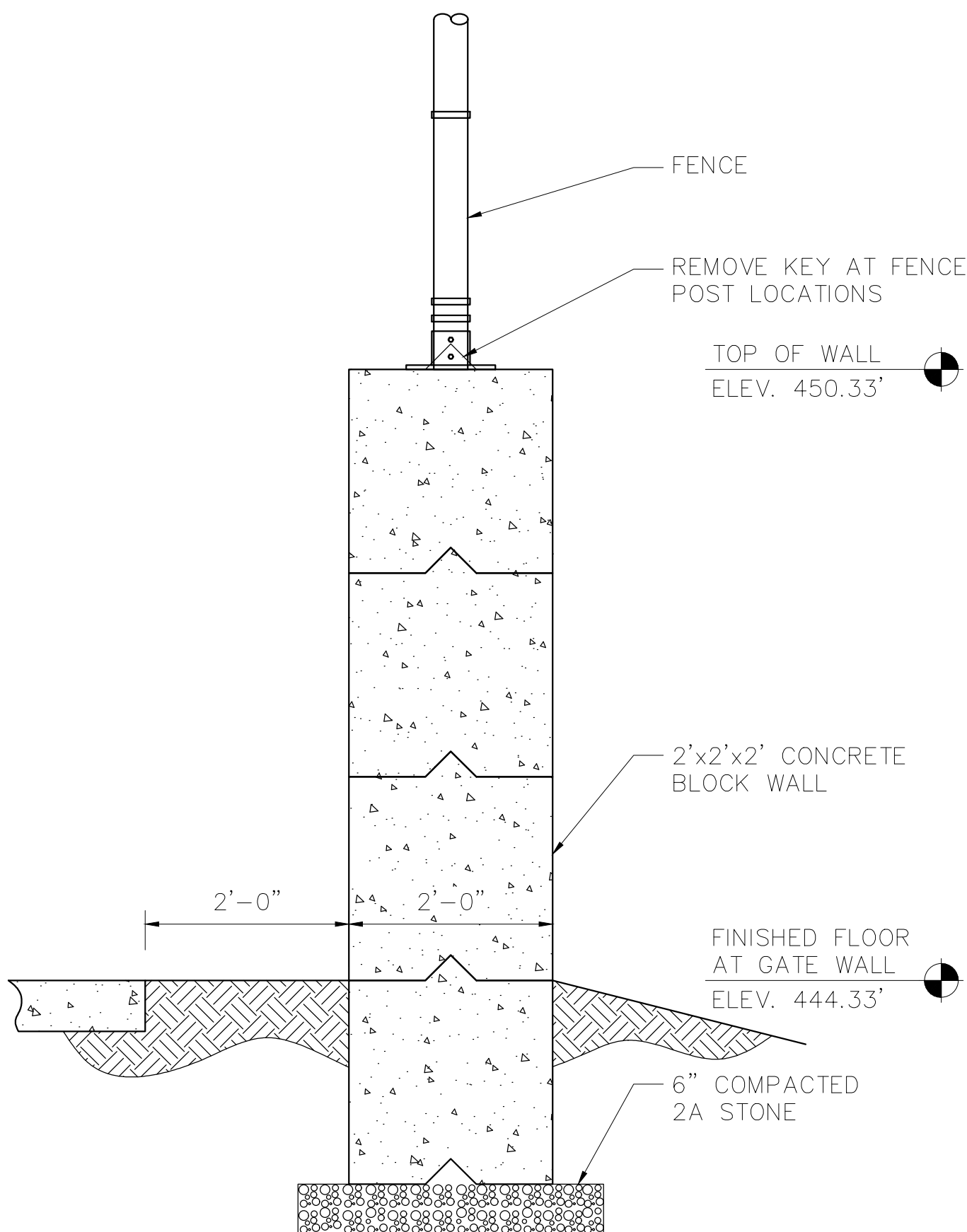
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TYPICAL WALL FENCE ELEVATION

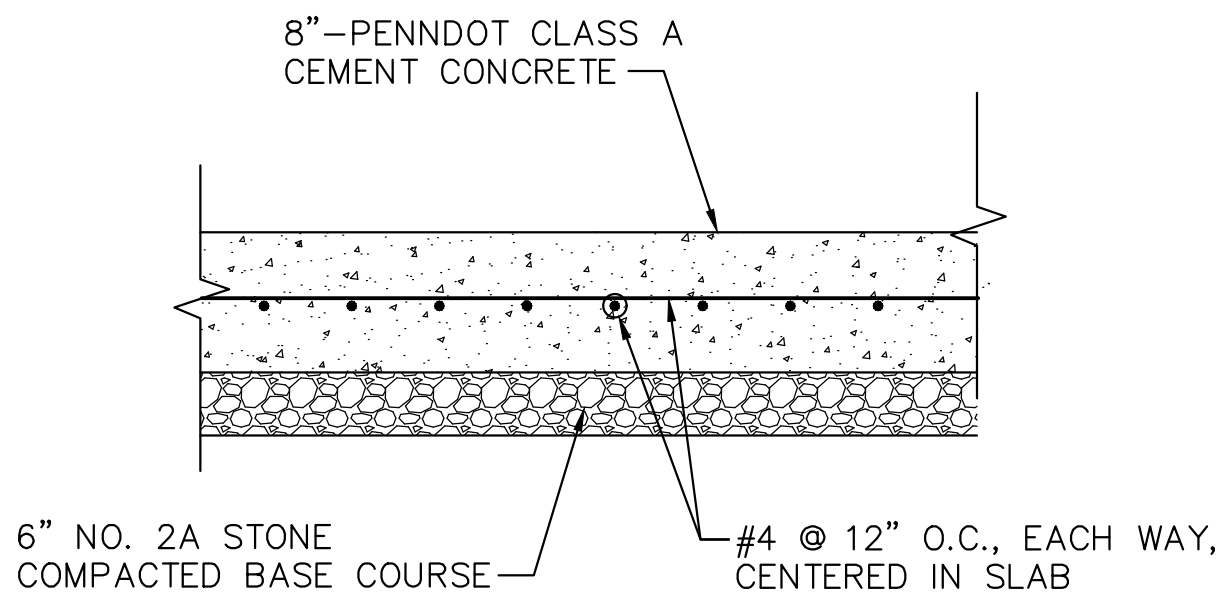
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TYPICAL WALL DETAIL

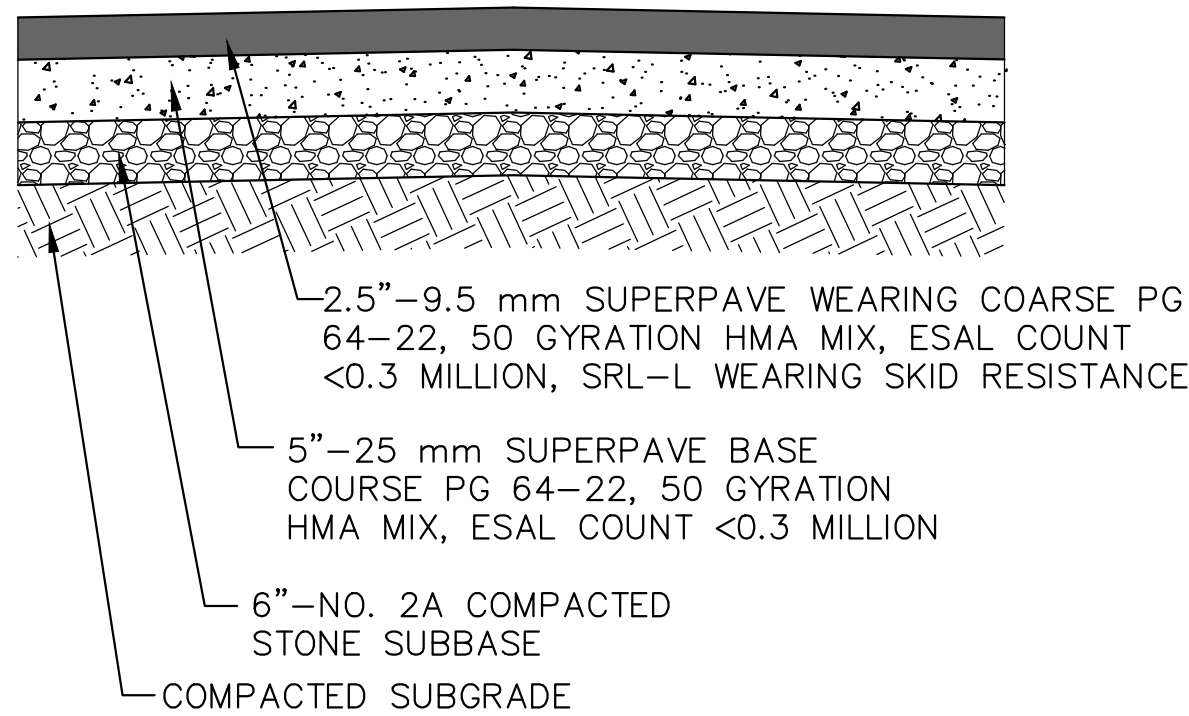
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CONCRETE PAD RESTORATION

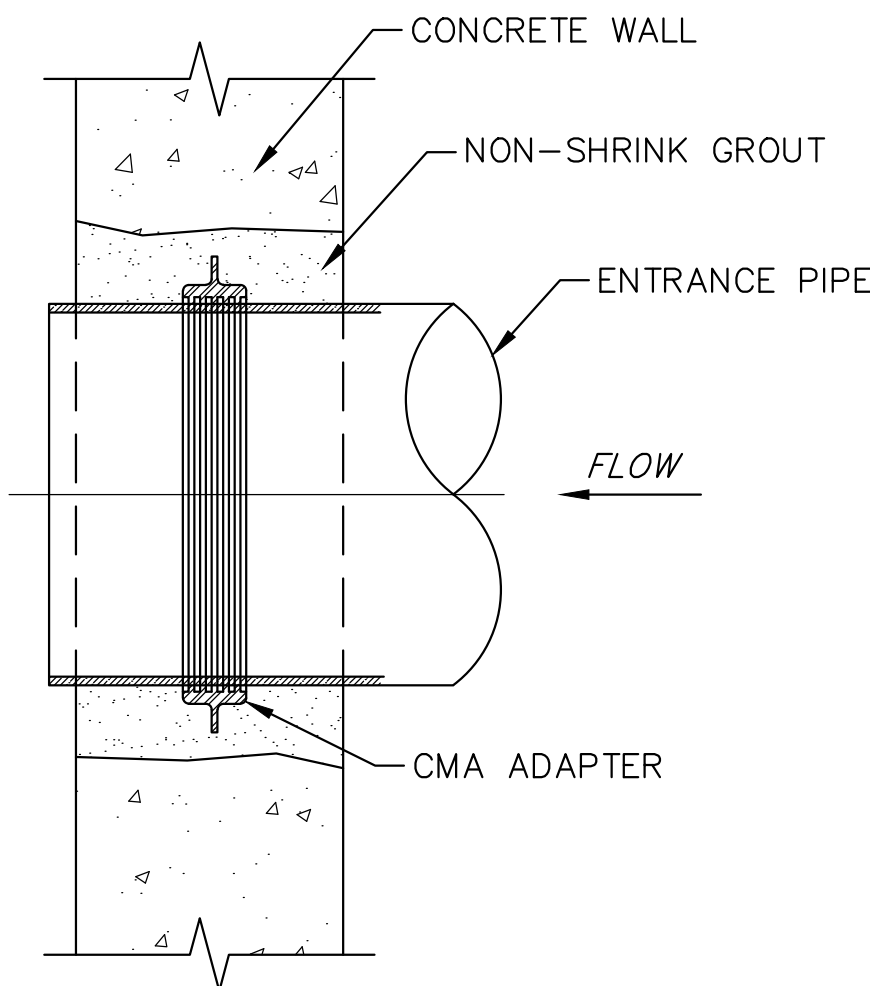
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NOT TO SCALE

HEAVY DUTY PAVEMENT RESTORATION

7



NOT TO SCALE

CONNECTION TO EXISTING

8

INSTALLATION INSTRUCTIONS

1. STRETCH 'CMA' OVER CLEAN END OF ENTRANCE PIPE, BEING CERTAIN ITS SEALING LIPS ARE TOWARD THE OUTSIDE.
2. POSITION 'CMA' ON APPROXIMATE CENTER OF CONCRETE.
3. CLOSE WALL OPENING AROUND 'CMA' AND PIPE WITH NON-SHRINK GROUT.
4. RECONSTRUCT INLET FLOW LINES AS NECESSARY WITH 3000 PSI CONCRETE.

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THE MUNICIPAL AUTHORITY OF THE CITY OF SUNBURY SOLID WASTE TRANSFER STATION TONNAGE INCREASE - ROOF EXPANSION CONTRACT NO. 20-04 CONSTRUCTION & RESTORATION DETAILS		
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PROJECT NO. 0372008009		
SHEET NO. 6		

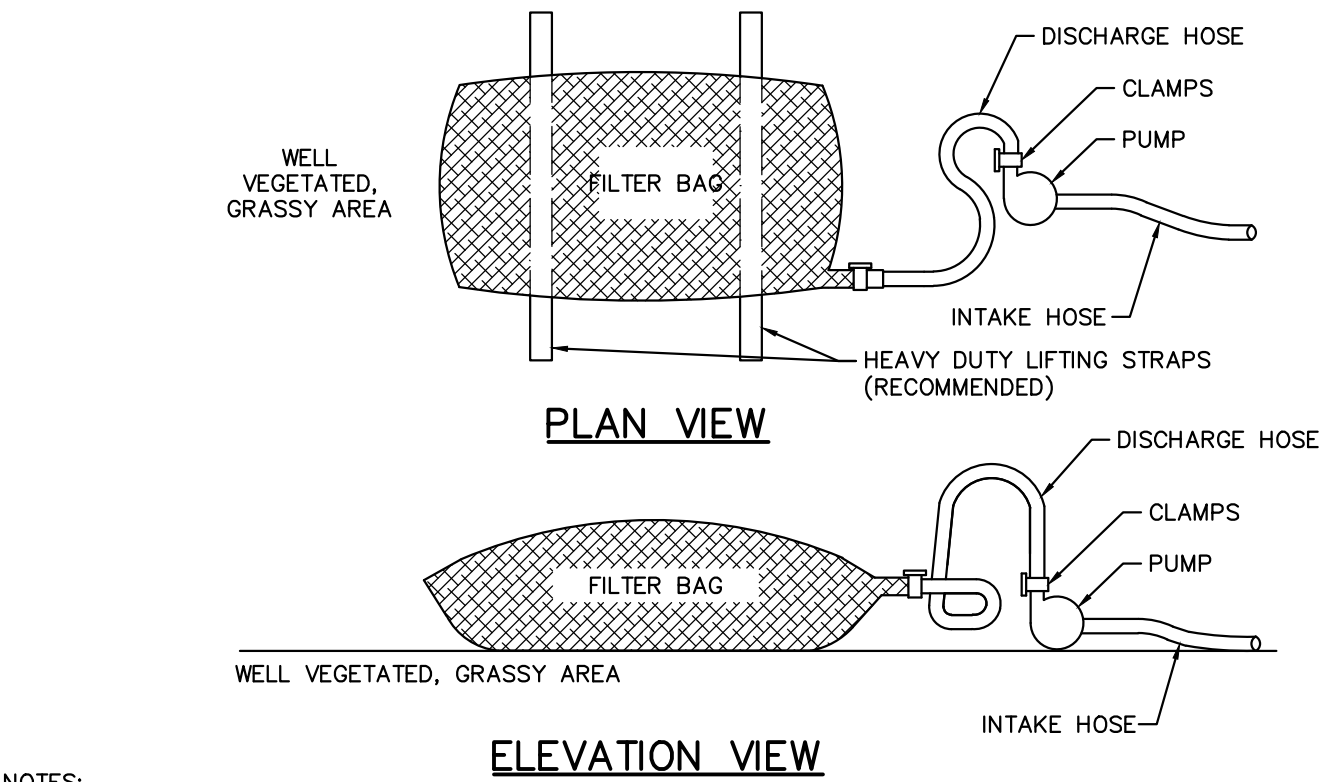
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STAGING OF EARTH MOVING ACTIVITIES

All disturbances associated with the Municipal Authority of the City of Sunbury Leachate Trench Addition, will be restored according to the final grading shown on the Construction Drawings. The exact dates of construction are not yet known. Construction is anticipated to start in September 2020. The project construction length will be approximately one month.

A. Construction Sequence

1. The Contractor shall notify the Conservation District ten (10) days prior to the start of construction and five (5) days prior to any plan changes.
2. Erosion and Sedimentation control devices shall be placed at locations shown on the construction plans and in accordance with applicable construction plan details prior to earth moving activities. Inlet Protection Filters must be installed in all adjacent inlets prior to earth moving activities.
3. Seed and vegetative mulch disturbed areas within four days after trenches have been backfilled or restore pavement, as appropriate.
4. After a minimum 70% uniform perennial vegetative cover is established, remove temporary erosion control structures.



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

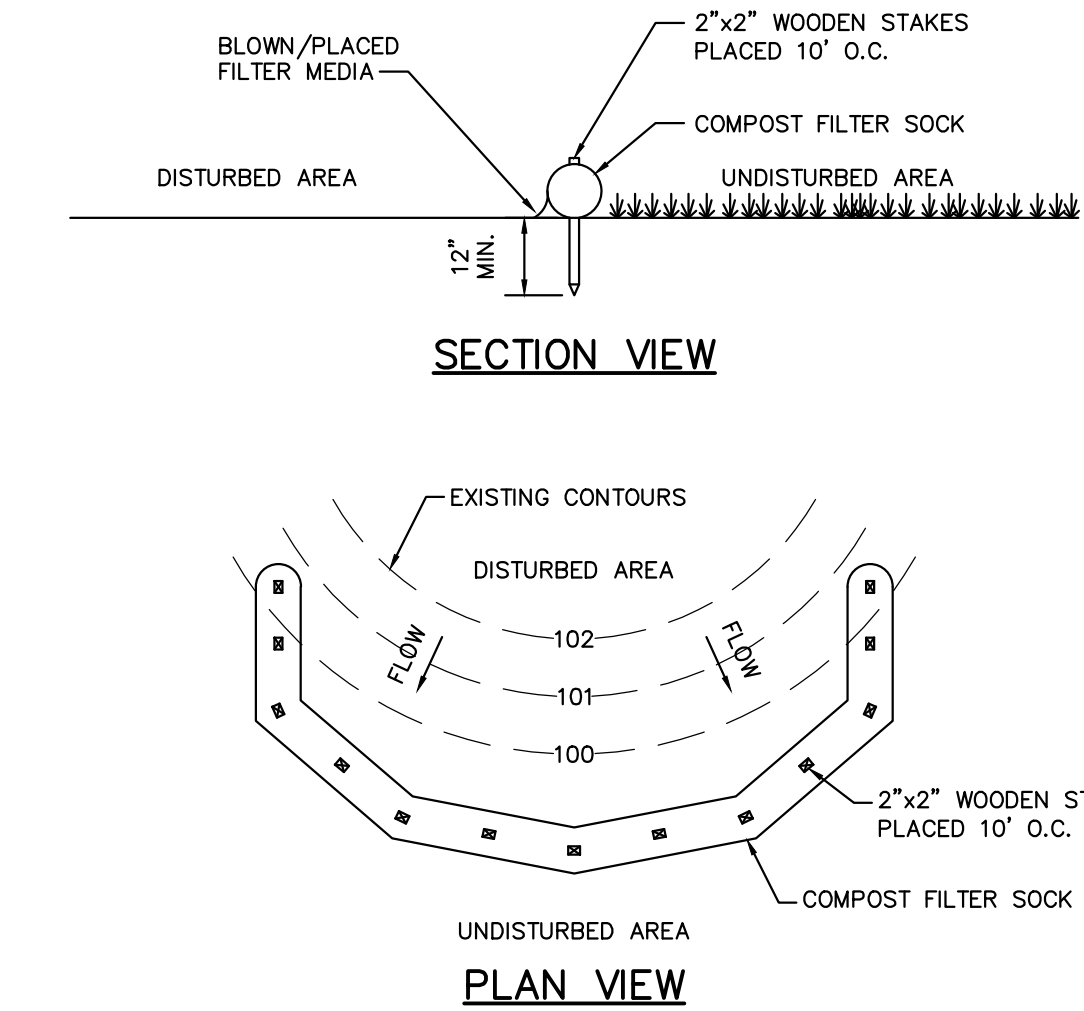
SCALE: NONE

PUMPED WATER FILTER BAG

1

FILTER BAG INLET PROTECTION-TYPE M INLET

2



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

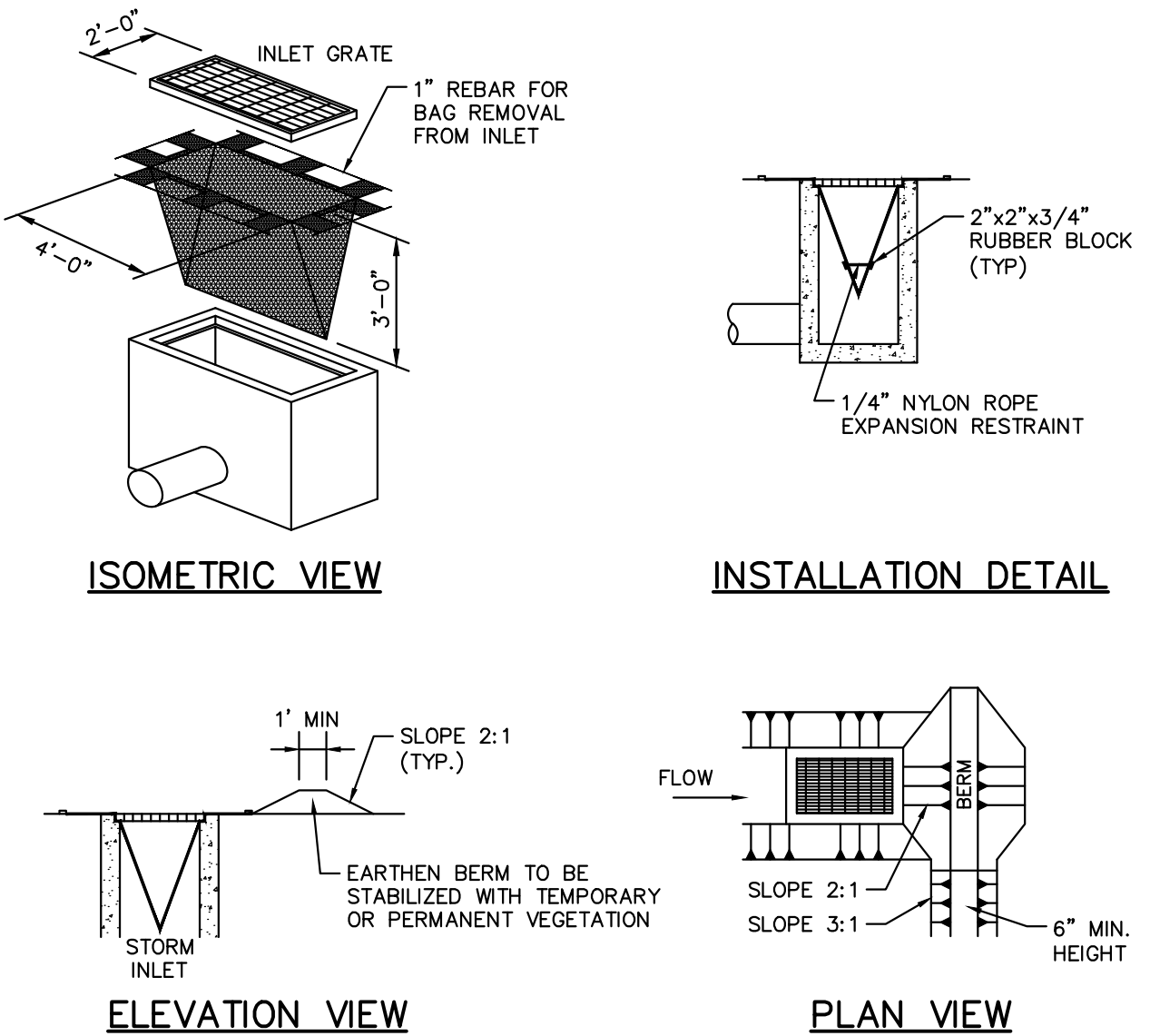
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

SCALE: NONE

18" COMPOST FILTER SOCK

3



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED, ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

SCALE: NONE

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EROSION & SEDIMENT CONTROL DETAILS

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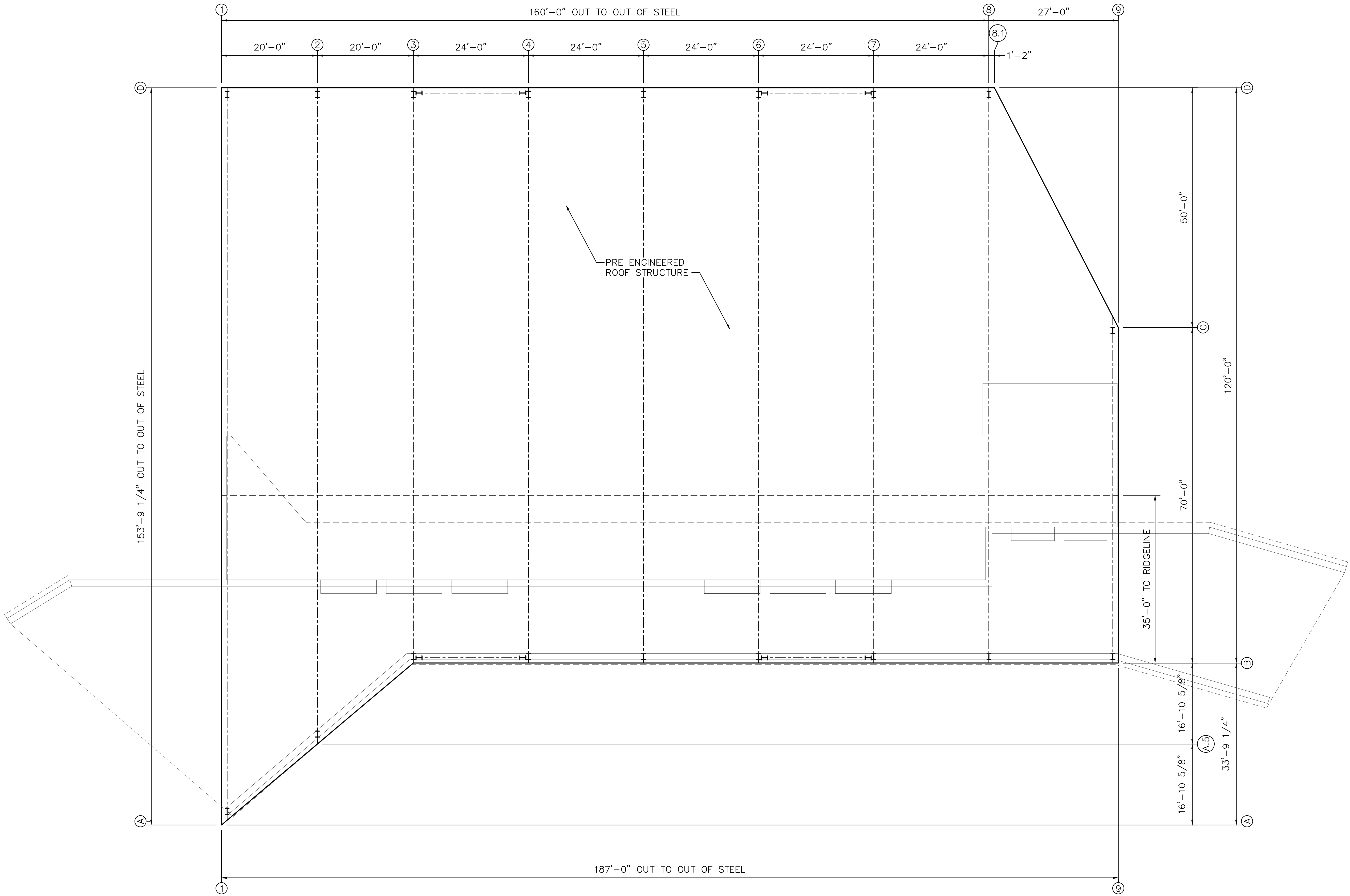
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TYPICAL COLUMN PLAN
SCALE: 3/32"=1'-0"

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COLUMN PLAN

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ENGINEER'S SEAL

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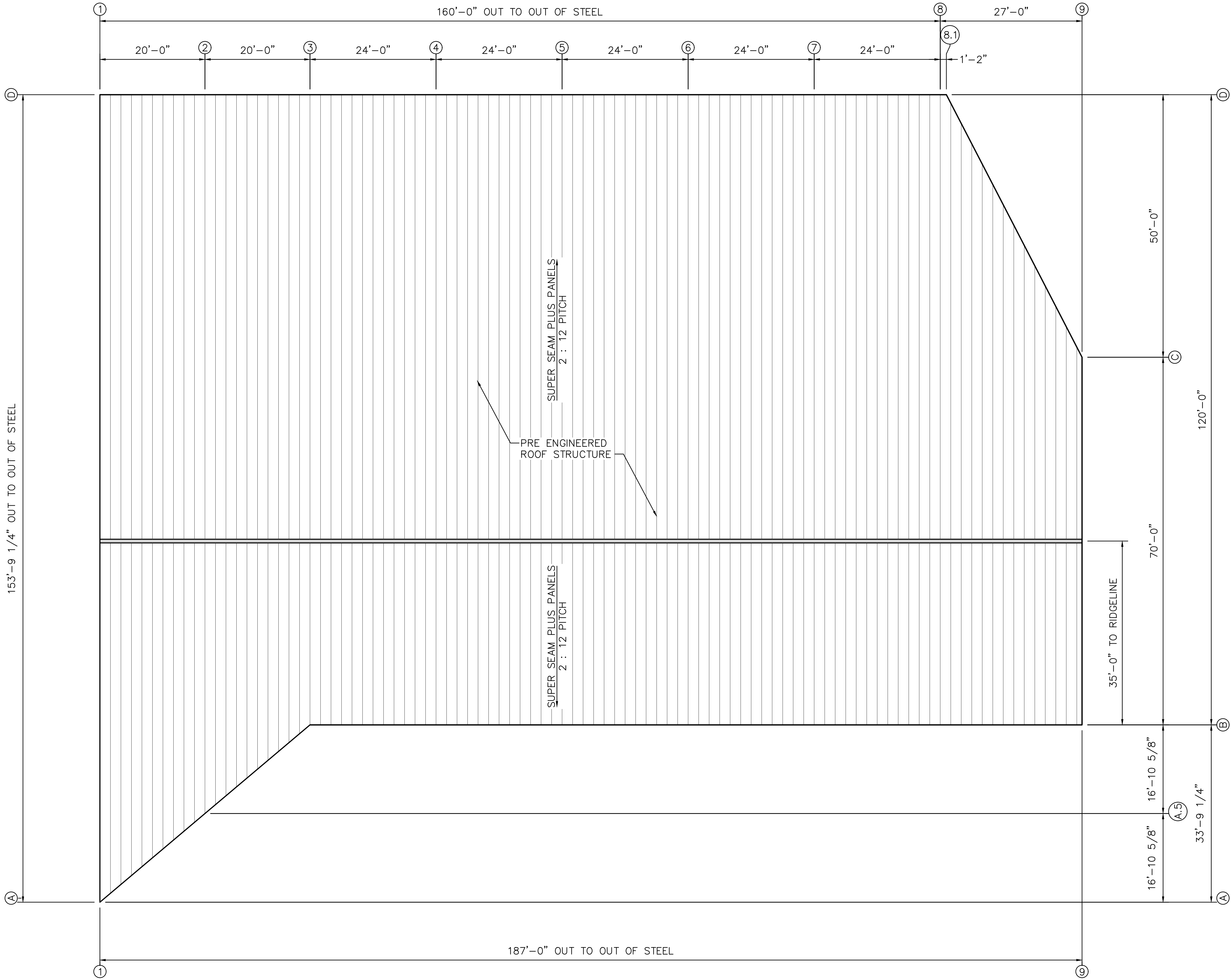
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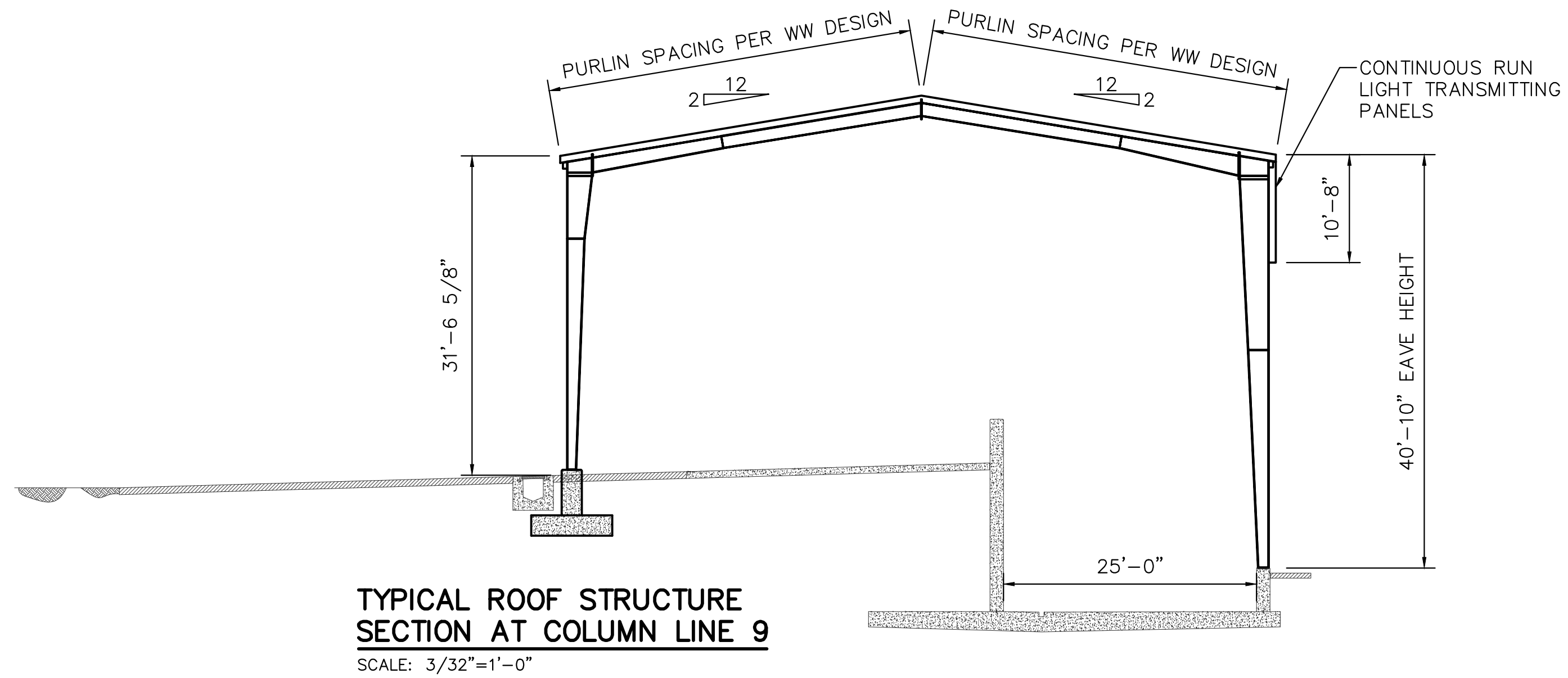
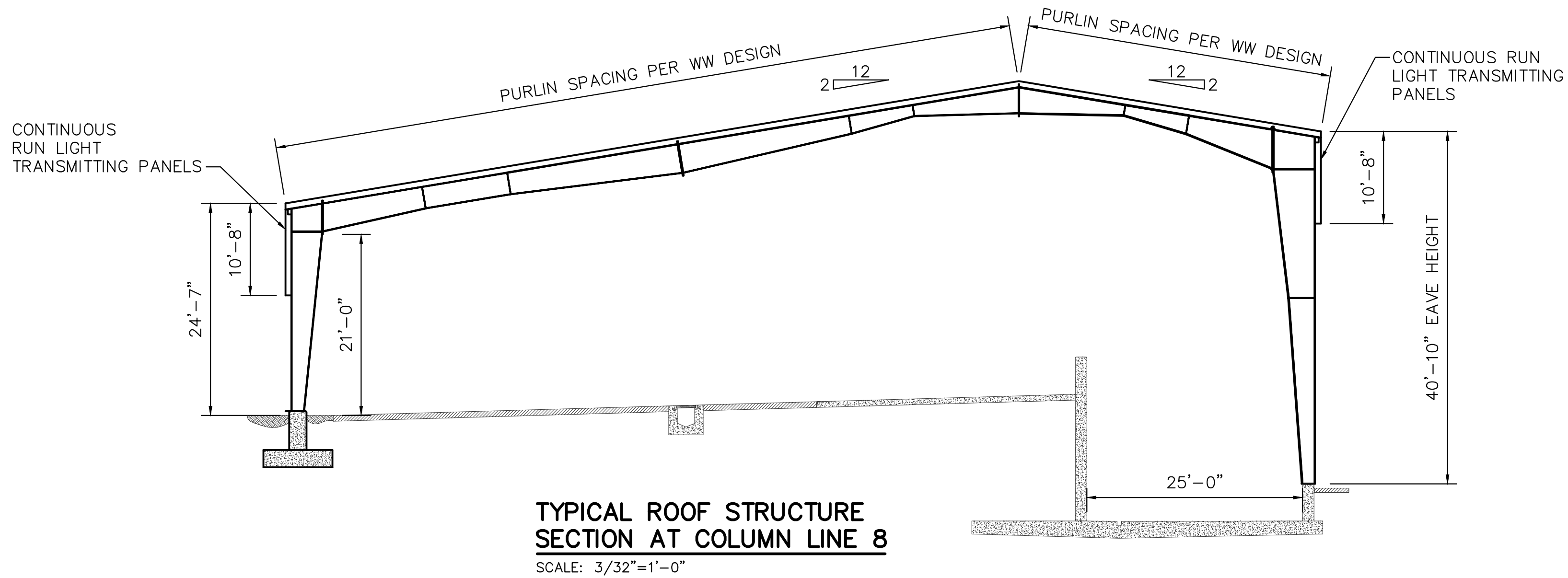
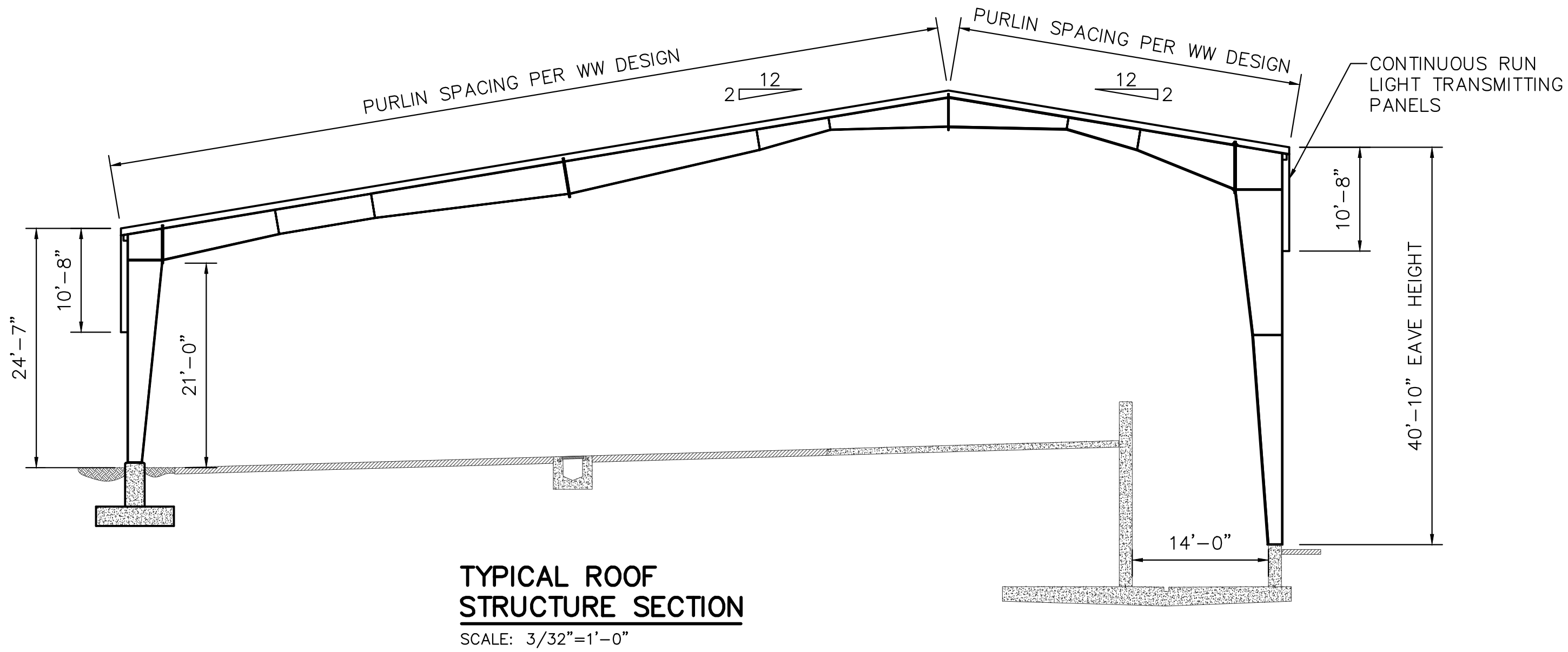
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TYPICAL ROOF PLAN
SCALE: 3/32"=1'-0"

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