

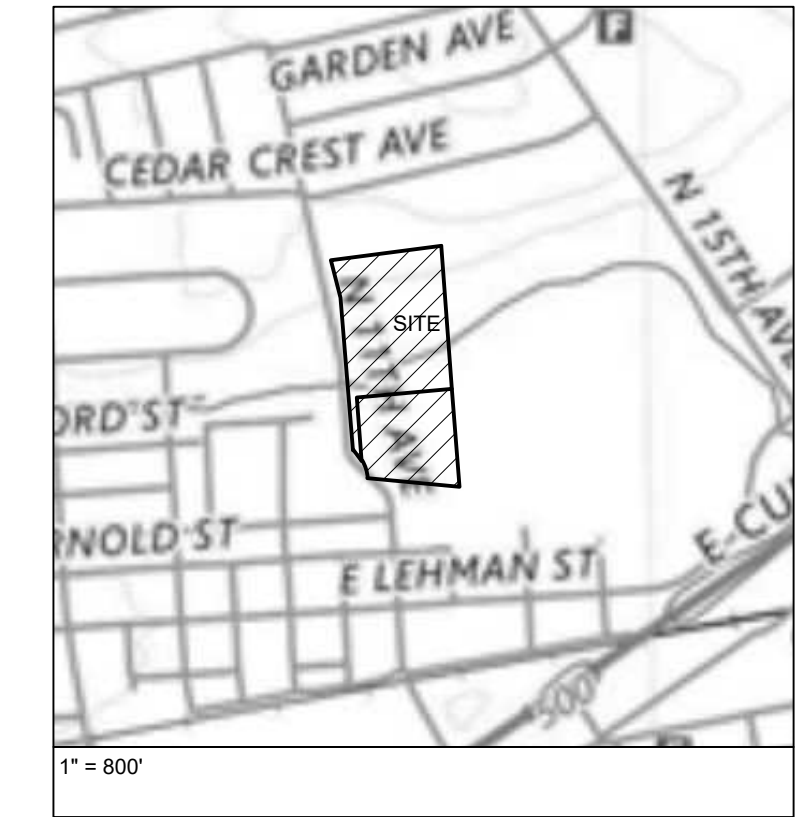
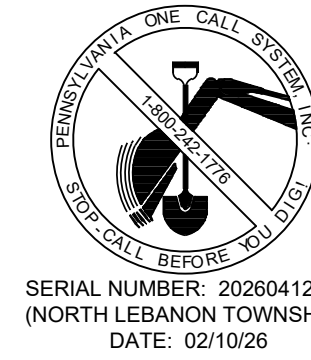
# STORMWATER MANAGEMENT PLAN

## FOR

### MANNA FOODS LLC - TRUCK PARKING

#### NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PA

FEBRUARY 19, 2026



- STORMWATER MANAGEMENT NOTES:**
- MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES AND EASEMENTS NOT LOCATED WITHIN PUBLIC RIGHTS-OF-WAY, INCLUDING THE STORMWATER MANAGEMENT FACILITIES, SHALL BE THE RESPONSIBILITY OF THE CURRENT PROPERTY OWNER, OWNERSHIP AND MAINTENANCE RESPONSIBILITIES WILL TRANSFER TO SUBSEQUENT OWNERS WITH THE TRANSFER OF PROPERTY OWNERSHIP.
  - INFILTRATION BASIN, SWALES AND OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN ACCORDANCE WITH THE DESIGN AND KEPT FREE OF FILL AND OBSTRUCTIONS.
  - ALL YARD INLETS SHALL BE SUMPED AT LEAST SIX (6) INCHES BELOW SURROUNDING GRADE TO CAPTURE TRIBUTARY RUNOFF AND PREVENT BYPASS FLOWS.
  - NO ALTERATION TO ANY STORMWATER MANAGEMENT FACILITIES SHALL BE PERMITTED WITHIN EASEMENTS.
  - NOTHING SHALL BE PLACED, PLANTED, SET OR PUT WITHIN ANY EASEMENT WHICH COULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT. NORTH LEBANON TOWNSHIP SHALL HAVE THE RIGHT TO:
    - ACCESS THE SITE TO INSPECT STORM WATER FACILITIES AT ANY TIME.
    - REQUIRE THE CURRENT LAND OWNER TAKE CORRECTIVE MEASURES AND ASSIGN THE LAND OWNER A REASONABLE PERIOD TO TAKE CORRECTIVE ACTION.
    - AUTHORIZE MAINTENANCE TO BE DONE AND LIEN ALL COSTS OF WORK AGAINST THE PROPERTIES OF THE PRIVATE ENTITY RESPONSIBLE FOR MAINTENANCE.
  - THE MAINTENANCE OF ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHALL BE BY THE PROPERTY OWNER, MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
    - REMOVAL OF SILT AND DEBRIS FROM ALL STORM WATER FACILITIES.
    - PERIODIC REPLACEMENT OF SILT ENGINE OR OTHER SIMILAR MEASURES.
    - ESTABLISHMENT OR RE-ESTABLISHMENT OF VEGETATION BY SEEDING AND MULCHING OR SODDING OF SCOURED AREAS OR AREAS WHERE VEGETATION HAS NOT BEEN SUCCESSFULLY ESTABLISHED.
    - INSTALLATION OF NECESSARY CONTROLS TO CORRECT UNFORESEEN PROBLEMS CAUSED BY STORM EVENTS.
    - REMOVAL OF ALL TEMPORARY STORMWATER MANAGEMENT CONTROL FACILITIES UPON THE INSTALLATION OF PERMANENT STORMWATER FACILITIES AT THE COMPLETION OF THE DEVELOPMENT.
    - REPAIR OF STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THAT CAUSED BY SINKHOLES OR OTHER EVENTS.
  - ACCESS TO ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING INLETS, MANHOLES, STORM PIPES, ENDWALLS, HEADWALLS, SWALES, AND BASINS SHALL BE PROVIDED VIA EASEMENTS TO REPRESENTATIVES OF NORTH LEBANON TOWNSHIP.
  - STORMWATER MANAGEMENT FACILITIES (DETENTION FACILITIES, STORM DRAINAGE PIPES, INLETS AND ENDWALLS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY CONSERVATION DISTRICT, LEBANON COUNTY, AND PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
  - ALL STORM SEWER JOINTS SHALL BE WATERTIGHT.
  - ALL STORM SEWERS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH PENNDOT PUB. 408 SPECIFICATIONS, PENNDOT PUB. 72, AND AS SHOWN ON THESE DRAWINGS.
  - RUNOFF FROM THE PROPOSED IMPROVEMENTS SHALL BE DIRECTED TO THE STORM WATER MANAGEMENT FACILITIES.
  - TOWNSHIP AND COUNTY OFFICIALS, AND THEIR AGENTS OR EMPLOYEES, HAVE THE RIGHT OF ACCESS FOR INSPECTION AND, IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF THE STORM WATER MANAGEMENT FACILITIES. THE DEVELOPER/OWNER GRANTS THE TOWNSHIP THE RIGHT TO ACCESS TO ALL STORMWATER MANAGEMENT EASEMENTS ON THE SUBJECT TRACT VIA THE ACCESS DRIVES, DRIVEWAYS, PARKING AREAS, AND SIMILAR FEATURES WITHIN THE SITE.
  - ACCESSORY BUILDINGS, STRUCTURES, FENCES, WALLS, HEDGES, AND POOLS SHALL NOT BE LOCATED WITHIN OR OBSTRUCT ANY STORMWATER MANAGEMENT FACILITY AND ASSOCIATED CONVEYANCE SYSTEMS.
  - ALL DRAINAGE PIPES SHALL BE LAID TO A MINIMUM DEPTH OF TWELVE (12) INCHES FROM FINISHED SUBGRADE TO THE CROWN OF THE PIPE IN PAVED, STONE, AND GRASSED AREAS.
  - NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER STORMWATER MANAGEMENT FACILITIES WHICH HAVE BEEN INSTALLED ON THE PROPERTY UNLESS A STORMWATER MANAGEMENT SITE PLAN HAS BEEN APPROVED BY NORTH LEBANON TOWNSHIP WHICH ALLOWS SUCH MODIFICATION, REMOVAL, FILL, LANDSCAPING, OR ALTERATION, NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORMWATER MANAGEMENT FACILITY OR WITHIN A DRAINAGE EASEMENT WHICH COULD LIMIT OR ALTER THE FUNCTIONING OF THE FACILITY OR EASEMENT IN ANY MANNER.
  - AS PER SECTION 310 OF THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE, THE SITE DEPICTED HEREIN IS LOCATED WITHIN THE "LEBANON COUNTY RESIDUAL" STORMWATER MANAGEMENT DISTRICT.
  - THE TOWNSHIP (717-273-7132), TOWNSHIP ENGINEER, AND DESIGN ENGINEER SHALL BE CONTACTED REGARDING INSPECTION OF THE STORMWATER MANAGEMENT FACILITIES. INSPECTIONS SHALL BE REQUIRED DURING CONSTRUCTION AND AT COMPLETION OF THE FACILITIES. NO OCCUPANCY PERMIT SHALL BE ISSUED UNTIL THE STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE TOWNSHIP.
  - THE STORMWATER STRUCTURES ARE THE RESPONSIBILITY OF THE PROPERTY OWNER WHEN LOCATED ON PRIVATE PROPERTY. ACCESS TO BE PROVIDED TO THE TOWNSHIP FOR PURPOSE OF INSPECTION.
  - FINANCIAL SECURITY FOR THE IMPROVEMENTS WILL NOT BE CONSIDERED FOR RELEASE UNLESS THE TOWNSHIP ENGINEER IS PROPERLY NOTIFIED AND THE IMPROVEMENTS ARE INSPECTED.
  - ALL STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED BY THE DEVELOPER IN ACCORDANCE WITH THE DESIGN, CONDITIONS AND SPECIFICATIONS IDENTIFIED ON THIS PLAN. OWNERSHIP AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE LANDOWNER, HIS SUCCESSORS, AND ASSIGNS, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE HEREIN.
  - STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN GOOD WORKING CONDITION SO THAT THEY ARE PERFORMING THEIR DESIGN FUNCTION, IN A MANNER ACCEPTABLE TO NORTH LEBANON TOWNSHIP, AS REQUIRED BY NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. MAINTENANCE SHALL INCLUDE PERFORMING ROUTINE MAINTENANCE AND REPAIR OR REPLACEMENT OF DAMAGED FACILITIES, VEGETATION, OR STORMWATER AREAS TO CONDITIONS AS SHOWN ON THE APPROVED PLAN AND IN ACCORDANCE WITH NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.
  - ANY DRAINAGE AND UTILITY EASEMENTS SHOWN ON THE PLAN SHALL BE CONSTRUCTED, OWNED, AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLAN AND SHALL BE REFERENCED WITHIN THE PROPERTY DEED.
  - RUNOFF FROM THE LOT IMPROVEMENTS SHALL BE DIRECTED TO THE STORMWATER MANAGEMENT FACILITIES. STORMWATER RUNOFF FROM EXISTING NATURAL SWALES AND/OR OTHER EXISTING DRAINAGE CONVEYORS SHALL NOT BE DIRECTED TOWARDS OR INTERCEPTED BY THE STORMWATER MANAGEMENT FACILITIES.
  - TOWNSHIP OFFICIALS AND THEIR AGENTS OR EMPLOYEES HAVE THE RIGHT OF ACCESS FOR INSPECTION AND, IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES.
  - CONTACT NORTH LEBANON TOWNSHIP AT (717) 273-7132 PRIOR TO CONSTRUCTION TO COORDINATE INSPECTIONS OF STORMWATER MANAGEMENT FACILITIES BY THE TOWNSHIP ENGINEER. NO OCCUPANCY IS PERMITTED UNTIL STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE TOWNSHIP ENGINEER.
  - CONTRACTORS AND PROPERTY OWNERS SHALL NOT STORE CONSTRUCTION MATERIALS OR LOCATE TRASH RECEPTACLES (I.E. DUMPSTERS) ON THE PAVED COURTS OF STREETS.
  - ALL MUD FROM CONSTRUCTION ACTIVITIES THAT IS TRACKED ONTO STREETS SHALL BE CLEANED BY THE RESPONSIBLE CONTRACTOR OR PROPERTY OWNER AT THE END OF EACH WORKDAY.
  - STORMWATER INLETS OR DRAINAGE PIPES WHICH BECOME FILLED WITH MUD OR DEBRIS FROM CONSTRUCTION ACTIVITIES SHALL BE CLEANED BY THE RESPONSIBLE CONTRACTOR OR PROPERTY OWNER.

NORTH LEBANON TOWNSHIP  
722 KIMERLINGS ROAD  
LEBANON, PA 17046  
CONTACT - CHERI GRUMBINE  
717-273-7132

BUCKEYE PARTNERS  
FIVE TEK PARK  
9909 HAMALTON BLVD  
BREITENBURG, PA 18031  
CONTACT - DAVE JONES  
dajones@buckeye.com  
610-904-4000

COMCAST CABLE LEBANON  
C/O CLS LOCATING SERVICES INC  
9045 RIVER ROAD, STE 300  
INDIANAPOLIS, IN 46240  
CONTACT - CLS PERSONNEL  
317-475-7800

VERIZON PENNSYLVANIA LLC  
15 E MONTGOMERY AVE  
PITTSBURGH, PA 15212  
CONTACT - OFFICE PERSONNEL  
877-502-2876

UGI UTILITIES INC  
1301 AIP DR  
MIDDLETOWN, PA 17057-5987  
CONTACT - JOANNE ARCHFIELD  
jarchfield@ugi.com  
717-255-1453

FIRSTENERGY CORP  
78 S MAIN ST  
AKRON, OH 44308-1890  
CONTACT - OFFICE PERSONNEL  
800-433-4766  
317-475-7800

SERIAL NUMBER: 20260412613  
(NORTH LEBANON TOWNSHIP)  
DATE: 02/10/26

- CHRISLAND ENGINEERING, INC. HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974 AS AMENDED BY ACT 121 OF 2008 OF THE PENNSYLVANIA GENERAL ASSEMBLY, IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REGARDING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS:
- PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, CHRISLAND ENGINEERING, INC. REQUESTED THE LINE AND FACILITY INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) FROM A ONE CALL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.
  - PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, CHRISLAND ENGINEERING, INC. SHOWN UPON THE DRAWING(S) THE POSITION AND TYPE OF EACH FACILITY OWNERS LINE, DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY SECTION 4, CLAUSE (2), AND THE NAME OF THE FACILITY OWNER, AND THE FACILITY OWNERS DESIGNATED OFFICE ADDRESS AND THE TELEPHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 3.
  - PURSUANT TO SECTION 4, CLAUSE (4) OF SAID ACT, CHRISLAND ENGINEERING, INC. MADE A REASONABLE EFFORT TO PREPARE THE CONSTRUCTION DRAWING(S) TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH A FACILITY OWNERS FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNERS FACILITIES WHERE POSSIBLE.
  - PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, CHRISLAND ENGINEERING, INC. SHALL BE DEEMED TO HAVE MET THE OBLIGATIONS OF CLAUSE (2) BY CALLING A ONE CALL SYSTEM AND SHOWING AS PROOF THE SERIAL NUMBER OF THE ONE CALL NOTICE ON THE DRAWING(S). LEBANON COUNTY ID NO. 20221653688
- AND CHRISLAND ENGINEERING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT CHRISLAND ENGINEERING, INC. IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT 187, DECEMBER 19, 1996.

- GENERAL NOTES:**
- BENCHMARK: SSMH LOCATED ALONG KOCHENBERGER ROAD SOUTH OF THE SITE.  
ELEVATION: 681.25'  
VERTICAL DATUM: NAVD 88  
HORIZONTAL DATUM: NAD83 - COR 96
  - MATTHEW & HOCKLEY ASSOCIATES PERFORMED THE SURVEY AS SHOWN HEREON IN APRIL 2023.
  - UNDERGROUND UTILITIES ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. CHRISLAND ENGINEERING DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE, OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS ARE CORRECT AND ACCURATE. CHRISLAND ENGINEERING ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
  - THE SITE IS NOT LOCATED WITHIN ANY REGULATED FLOOD ZONE PER FEMA FLOOD INSURANCE RATE MAP FOR LEBANON COUNTY, PENNSYLVANIA (ALL JURISDICTIONS), MAP NUMBER 42075C0257E, EFFECTIVE DATE JULY 8, 2020.
  - IN ACCORDANCE WITH THE U.S. FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY THERE ARE NO WETLANDS ON THE SUBJECT PREMISES.
  - ANY REVISION TO THESE PLANS AFTER THE DATE OF PLAN PREPARATION OR LATEST REVISION DATE SHALL NOT BE THE RESPONSIBILITY OF CHRISLAND ENGINEERING.
  - NO ONE SHALL SCALE FROM THESE PLANS FOR CONSTRUCTION PURPOSES.
  - THE INFORMATION SHOWN ON THIS DRAWING MAY HAVE ALSO BEEN PROVIDED BY DIGITAL FILE. AFTER A DIGITAL FILE IS RELEASED FROM CHRISLAND ENGINEERING THE VIEWER IS THEREFORE CAUTIONED TO COMPARE ANY SUBSEQUENT REPRODUCTIONS OF THIS DATA WITH THE ORIGINAL HARD COPY SEALED PLAN.
  - ALL SITE DEVELOPMENT SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND TOWNSHIP STANDARDS AND REQUIREMENTS.
  - CHRISLAND ENGINEERING HAS NOT PERFORMED ANY SUBSURFACE INVESTIGATIONS, GEOLOGICAL STUDIES, SOUNDINGS OR EVALUATIONS OF THE SUBSURFACE CONDITIONS PRESENT THROUGHOUT THE SITE. NUMEROUS UNKNOWN GEOLOGICAL SITE CONDITIONS AND THE UTILIZATION OF NUMEROUS CONSTRUCTION PRACTICES MEAN THAT CHRISLAND ENGINEERING CANNOT CONSIDER EVERY POTENTIAL GEOLOGICAL IMPACT CAUSED BY CONSTRUCTION ON ANY PORTION OF THE SITE WHICH IS THE SUBJECT OF THIS PLAN.
  - IT IS THE RESPONSIBILITY OF THE LANDOWNER, LAND PURCHASER, OR PROSPECTIVE BUYER OF ANY PORTION OF THE SITE DEPICTED ON THIS PLAN TO PERFORM THEIR OWN INDIVIDUAL EVALUATION OF THE GEOLOGY OF THIS SITE TO ASCERTAIN THE GEOLOGICAL FORMATION(S) WHICH UNDERLAY IT, AND THE IMPACT WHICH THOSE FORMATION(S) MAY HAVE UPON THEIR LAND OR ANY CONSTRUCTION PROPOSED THEREON, INCLUDING THE ABILITY TO CONSTRUCT THE REQUIRED STORM WATER MANAGEMENT FACILITIES AND OTHER SITE WORK IN ACCORDANCE WITH THE APPROVED SUBDIVISION PLAN.
  - CHRISLAND ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY ROCK REMOVAL, SINKHOLES, SOLUTION CHANNELS OR ROCK FRACTURES, OR FOR THE CONSTRUCTION, ENGINEERING, PERMITTING AND INSPECTION COST IMPACT WHICH ANY OF THESE GEOLOGICAL FEATURES MAY HAVE UPON THE LAND OWNER.
  - MATERIALS AND DETAILS SPECIFIED ON THE APPROVED PLAN SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL BY THE TOWNSHIP.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO THE START OF CONSTRUCTION. UNDERGROUND UTILITIES HAVE BEEN SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. CHRISLAND ENGINEERING DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION INFORMATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS IS CORRECT AND ACCURATE. CHRISLAND ENGINEERING ASSUMES NO LIABILITY FOR ANY DAMAGE INCURRED AS A RESULT OF UNDERGROUND UTILITIES OMITTED OR INACCURATELY SHOWN.
  - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. DAMAGE TO ANY UTILITY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, UTILITY COMPANY OR AUTHORITY, AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS FROM THE MUNICIPALITY, COUNTY, STATE OR AUTHORITY RELATIVE TO CONSTRUCTION SHOWN ON THIS PLAN.
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND RECORD DRAWINGS AS MAY BE REQUIRED BY THE MUNICIPALITY AND/OR THE VARIOUS AUTHORITIES RELATIVE TO THE CONSTRUCTION SHOWN ON THESE PLANS.
  - ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE NORTH LEBANON TOWNSHIP ZONING ORDINANCE.
  - THE PROPOSED SITE IS LOCATED WITHIN THE "LEBANON COUNTY RESIDUAL" STORMWATER MANAGEMENT DISTRICT.
  - ALL APPLICABLE CORNER MARKERS SHALL BE SET UPON APPROVAL OF THE STORMWATER MANAGEMENT PLAN. RESETTling OF CORNER MARKERS AFTER CONSTRUCTION OF THE DWELLINGS AND BUILDINGS SHOWN HEREON SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR LOT OWNER.
  - ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
  - ALL PROPOSED STREET SIGNS SHALL BE INSTALLED BY THE DEVELOPER. INSTALLATION AND SIGN TYPE SHALL BE IN ACCORDANCE WITH THE TOWNSHIP AND/OR PENNDOT SPECIFICATIONS.
  - CLEAR SIGHT TRIANGLES SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 30 INCHES.
  - ALL PLAN SHEETS, INCLUDING THE APPROVED POST-CONSTRUCTION STORMWATER MANAGEMENT REPORT AND EROSION AND SEDIMENT POLLUTION CONTROL REPORT ARE PART OF THIS PLAN AND ARE ENFORCEABLE AS IF THEY APPEARED IN TOTAL HEREIN.
  - THE DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR ANY ATTORNEY FEES WHERE THE ATTORNEY IS ENGAGED ON BEHALF OF THE TOWNSHIP/AUTHORITY RELATING TO THE REVIEW OF THE SUBDIVISION PLANS OR LAND DEVELOPMENT PLANS THAT ARE SUBMITTED TO THE TOWNSHIP/AUTHORITY. THESE FEES ARE IN ADDITION TO SUBMISSION FEES CHARGED BY THE TOWNSHIP AND AUTHORITY. PAYMENT OF ALL INVOICES IS DUE AND PAYABLE WITHIN 30 DAYS OF RECEIPT BUT IN ALL CASES PRIOR TO PLAN APPROVAL BY THE BOARD OF SUPERVISORS. ANY QUESTIONS ON INVOICES MUST BE REPORTED TO THE TOWNSHIP/AUTHORITY IN WRITING WITHIN 10 DAYS OF RECEIPT OF THE BILL.
  - A PDF COPY OF THE APPROVED PCSM PLAN SHALL BE SUBMITTED TO THE TOWNSHIP.

**ZONING DATA**  
ZONING DISTRICT: INDUSTRIAL (I)

REQUIRED	PROVIDED
2 ACRES	3.3938 ACRES
MIN LOT AREA:	200'
MIN LOT WIDTH:	400'
MAX LOT COVERAGE:	50%
FRONT YARD:	60'
REAR YARD:	30'
SIDE YARD:	30'
BUILDING HEIGHT:	35'

**SITE DATA**

OWNER: MR. THEODORE R & SUSAN G BAXTER  
430 N. 11TH AVENUE  
LEBANON, PA 17046  
717-675-2262

ADDRESS: 430 N. 11TH AVENUE  
LEBANON, PA 17046

DEED NO.: 20714800  
PARCEL NO.: 27-2346834-372794-0000 & 27-2346789-373107  
SITE AREA: 3.3938 AC & 6.1233 AC

WATER: PUBLIC  
SEWER: PUBLIC

**LOT IMPERVIOUS AMOUNTS**

PROPOSED IMPERVIOUS DRIVEWAY: 37,640 SF 0.864 AC

**BMP FACILITY LOCATION**

FACILITY NAME	LATITUDE	LONGITUDE
INFILTRATION BASIN 1	40.34932	-76.39272

**SEWAGE DISPOSAL NOTE:**  
NO SEWAGE DISPOSAL IS REQUIRED FOR THIS PROJECT.

**WATER SUPPLY NOTE:**  
NO WATER SERVICE IS REQUIRED FOR THIS PROJECT.

**BUILDING CODE NOTE:**  
ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC).

**E&SP PLAN & NPDES PERMIT:**  
THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN, PADEP AND NPDES PERMIT NO. \_\_\_\_\_ WAS APPROVED BY THE LEBANON COUNTY CONSERVATION DISTRICT VIA A LETTER DATED \_\_\_\_/\_\_\_\_/\_\_\_\_. THE NPDES PERMIT WILL EXPIRE \_\_\_\_/\_\_\_\_/\_\_\_\_.

**SHEET INDEX**

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SHEET 5 of 13	LIGHTING PLAN
SHEET 6 of 13	LANDSCAPING PLAN
SHEET 7 of 13	PCSM PLAN
SHEET 8 of 13	PCSM PLAN
SHEET 9 of 13	DRAINAGE PLAN
SHEET 10 of 13	PCSM DETAILS
SHEET 11 of 13	E&SP PLAN
SHEET 12 of 13	E&SP NOTES & DETAILS
SHEET 13 of 13	E&SP DETAILS

\*TO BE RECORDED

NORTH LEBANON TOWNSHIP ENGINEER  
Reviewed by the North Lebanon Township Engineer this \_\_\_\_ day of \_\_\_\_, 20\_\_.

\_\_\_\_\_  
\*Signature of the North Lebanon Township Engineer

NORTH LEBANON TOWNSHIP PLANNING COMMISSION REVIEW CERTIFICATE  
Reviewed \_\_\_\_\_

NORTH LEBANON TOWNSHIP BOARD OF SUPERVISORS  
At a meeting held on \_\_\_\_ day of \_\_\_\_, 20\_\_\_\_, the Board of Supervisors of North Lebanon Township, Lebanon County, Pennsylvania approved the STORMWATER MANAGEMENT SITE PLAN for the property as shown hereon. No other Stormwater Management Site plan or plans shall be recognized. Approval includes all documentation, including the comments or requirements of official reviewing individuals or agencies. Approval is based on compliance with applicable ordinances, rules, and regulations, and shall not be construed as a guarantee to any person or organization that the design of any part of the plan will function as anticipated under any or all conditions or situations. Additionally, that by review and/or approval of the plan, the Township expressly declines the assumption of liability errors, omissions, or mistakes in judgement in the design, engineering, construction, or expected function of the matters reviewed and/or approved.

\_\_\_\_\_  
\*Signature of Notary

My Commission Expires \_\_\_\_ 20\_\_

**GEOLOGY CERTIFICATE**  
I hereby certify that the proposed stormwater management BMPs are/are not underlain by limestone.

\_\_\_\_\_, 20\_\_  
Registered Professional

**PLAN CERTIFICATE**  
I hereby certify that, to the best of my knowledge, the plan shown and described hereon is true and correct to the accuracy required by the Lebanon County and North Lebanon Township Ordinances.

\_\_\_\_\_, 20\_\_  
Joshua T. Weaver, P.E.

**CERTIFICATE OF OWNERSHIP, ACKNOWLEDGEMENT OF PLAN AND OFFER OF DEDICATION**  
COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF LEBANON

On this, the \_\_\_\_ day of \_\_\_\_, 20\_\_\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, who being duly sworn according to law, deposes and says that they are the \_\_\_\_\_ of the property shown on this plan, that the plan thereof was made at their direction, that they acknowledge the same to be their act and plan, that they desire the same to be recorded, and that they acknowledge all stormwater management facilities are permanent fixtures that can be altered or removed only after approval of a revised Stormwater Management Site Plan by the Township.

\_\_\_\_\_  
Signature of Individual

\_\_\_\_\_  
Signature of Notary

My Commission Expires \_\_\_\_ 20\_\_

**CERTIFICATE OF OWNERSHIP, ACKNOWLEDGEMENT OF PLAN AND OFFER OF DEDICATION**  
COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF LEBANON

On this, the \_\_\_\_ day of \_\_\_\_, 20\_\_\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, who being duly sworn according to law, deposes and says that they are the \_\_\_\_\_ of the property shown on this plan, that the plan thereof was made at their direction, that they acknowledge the same to be their act and plan, that they desire the same to be recorded, and that they acknowledge all stormwater management facilities are permanent fixtures that can be altered or removed only after approval of a revised Stormwater Management Site Plan by the Township.

\_\_\_\_\_  
Signature of Individual

\_\_\_\_\_  
Signature of Notary

My Commission Expires \_\_\_\_ 20\_\_

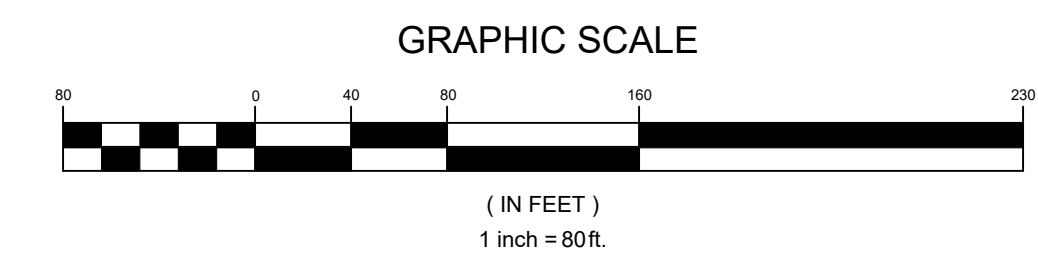
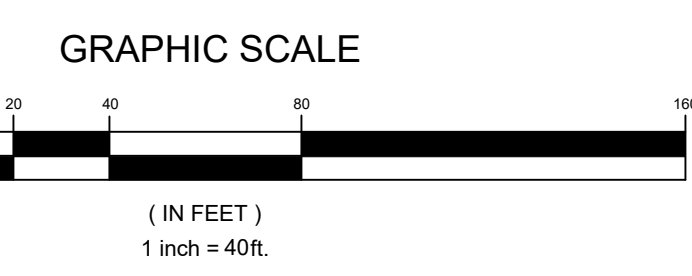
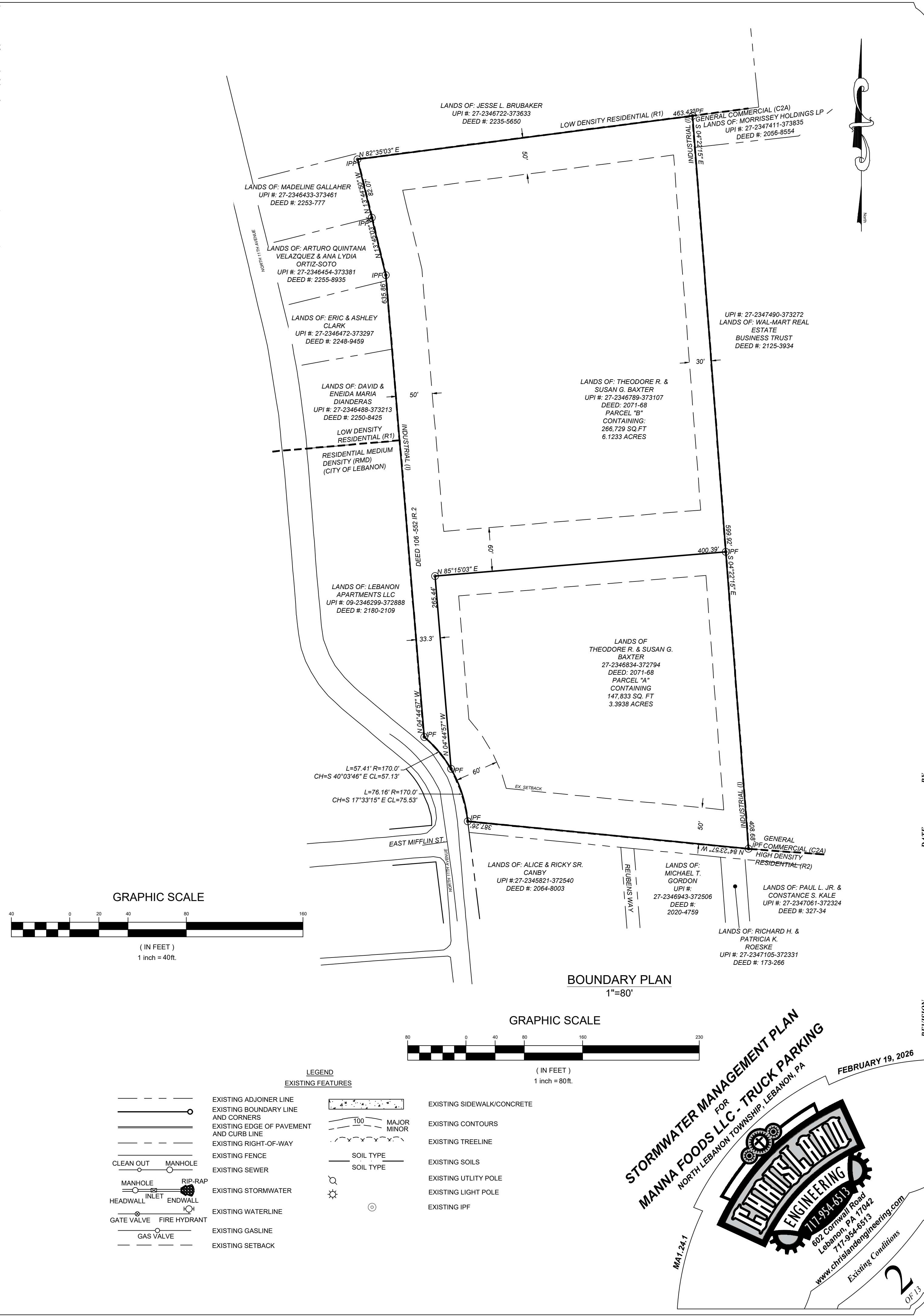
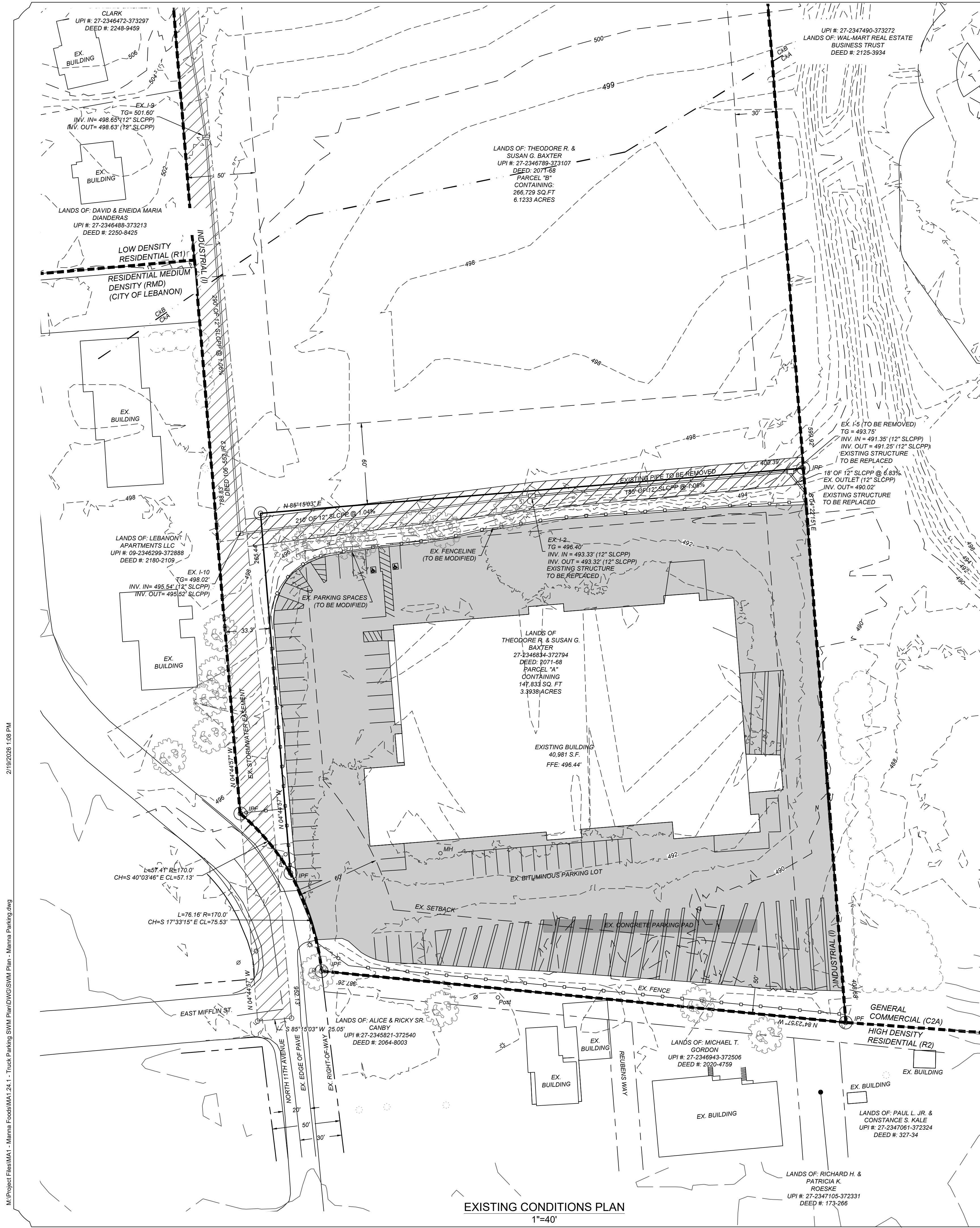
STORMWATER MANAGEMENT PLAN FOR MANNA FOODS LLC - TRUCK PARKING NORTH LEBANON TOWNSHIP, LEBANON, PA

FEBRUARY 19, 2026

MANNA FOODS LLC - TRUCK PARKING

CHRISLAND ENGINEERING  
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802 Cornwall Road  
Lebanon, PA 17042  
717-664-8519  
www.chrislandengineering.com

MA1-24-1  
Cover Sheet  
1 OF 13



**LEGEND**

**EXISTING FEATURES**

—○—	EXISTING ADJOINER LINE	—●—	EXISTING SIDEWALK/CONCRETE
—○—	EXISTING BOUNDARY LINE AND CORNERS	—○—	EXISTING CONTOURS
—○—	EXISTING EDGE OF PAVEMENT AND CURB LINE	—○—	EXISTING TREELINE
—○—	EXISTING RIGHT-OF-WAY	—○—	EXISTING SOILS
—○—	EXISTING FENCE	—○—	EXISTING UTILITY POLE
—○—	EXISTING SEWER	—○—	EXISTING LIGHT POLE
—○—	EXISTING STORMWATER	—○—	EXISTING IPF
—○—	EXISTING WATERLINE		
—○—	EXISTING GASLINE		
—○—	EXISTING SETBACK		

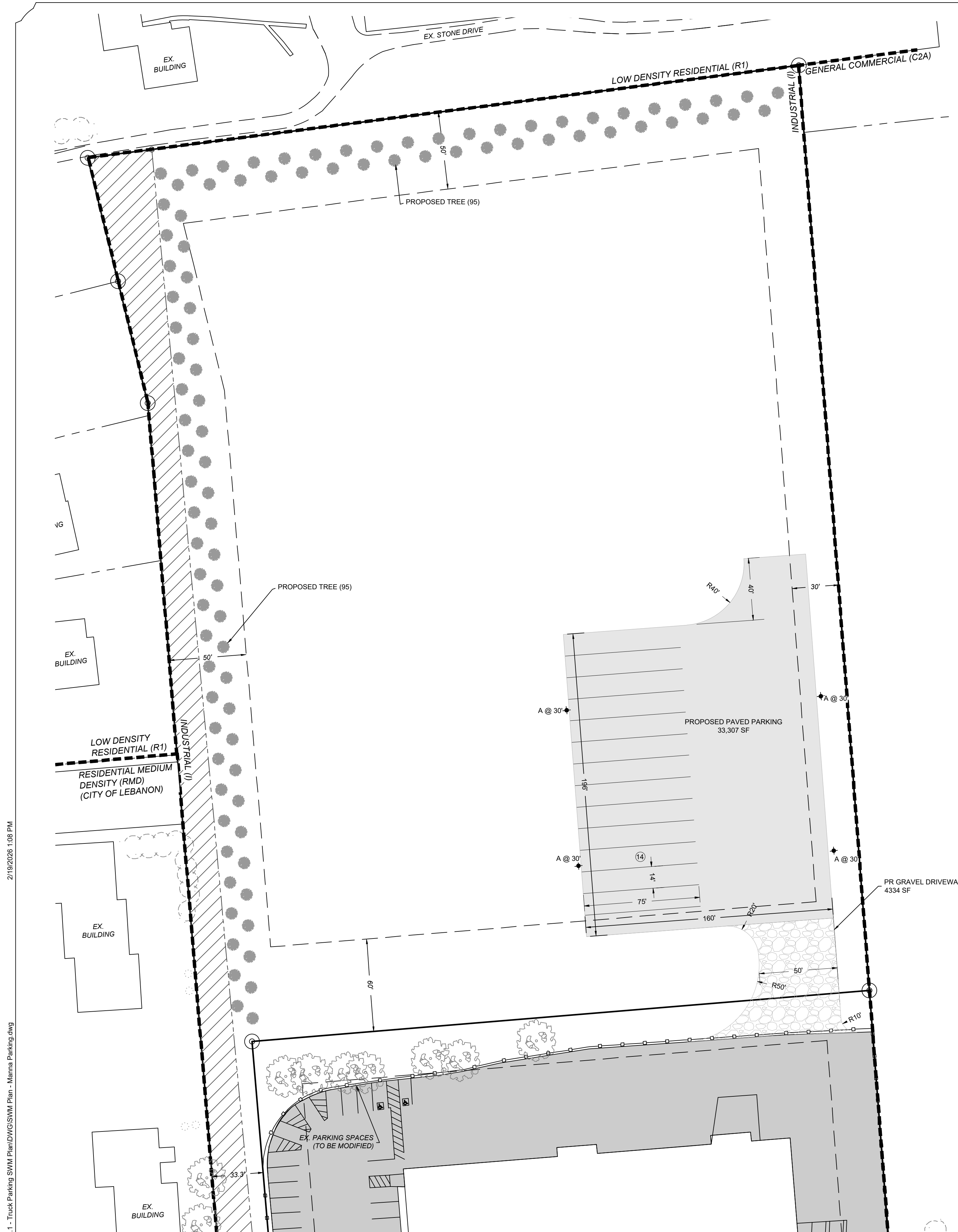
**STORMWATER MANAGEMENT PLAN**  
 FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
 NORTH LEBANON TOWNSHIP, LEBANON, PA

**ENGINEERING**  
 171-834-8513  
 800 Cornwall Road  
 Lebanon, PA 17042  
 www.christianengineering.com

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 FEBRUARY 19, 2026  
 Existing Conditions

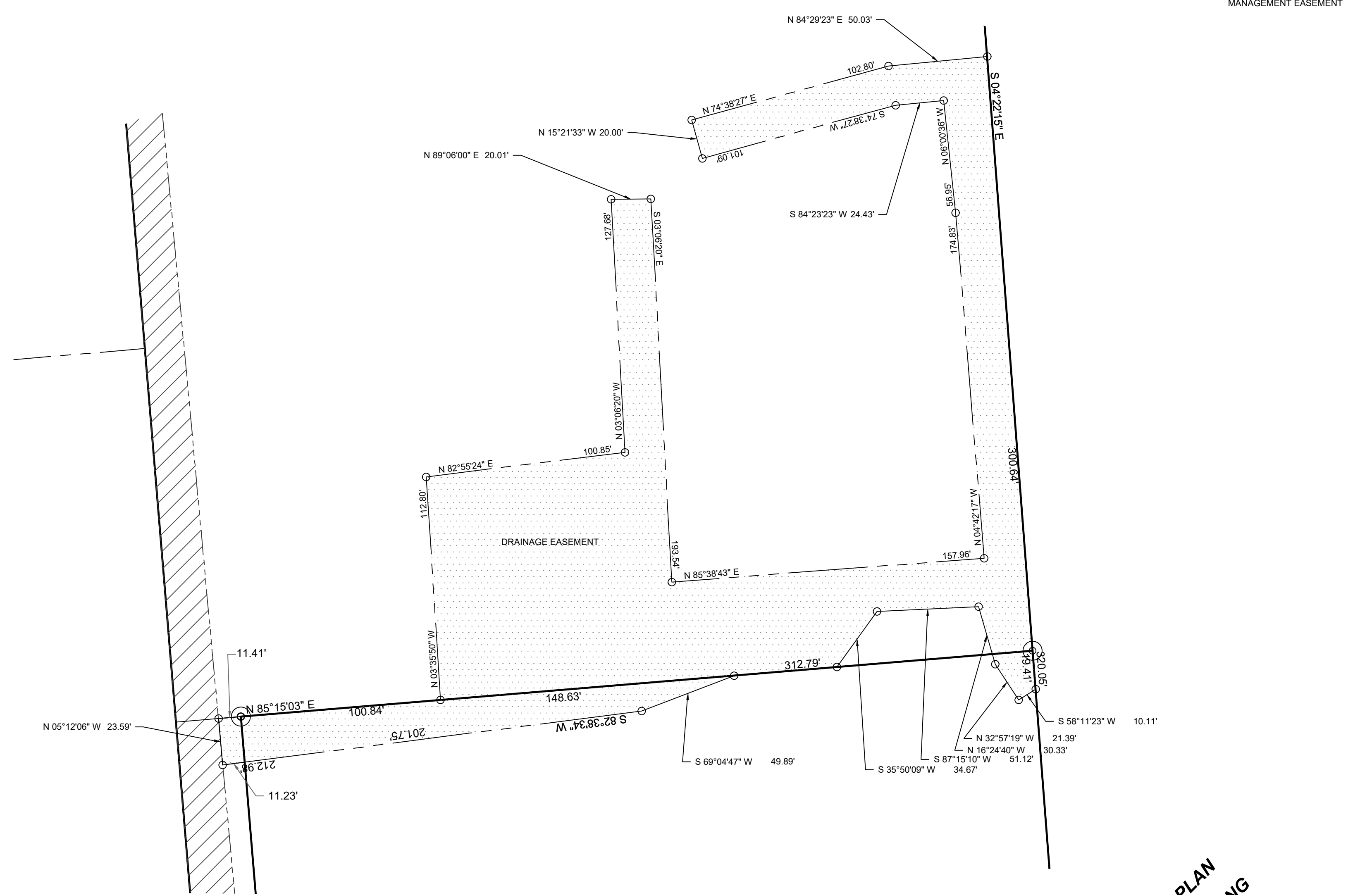
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BY DATE REVISION

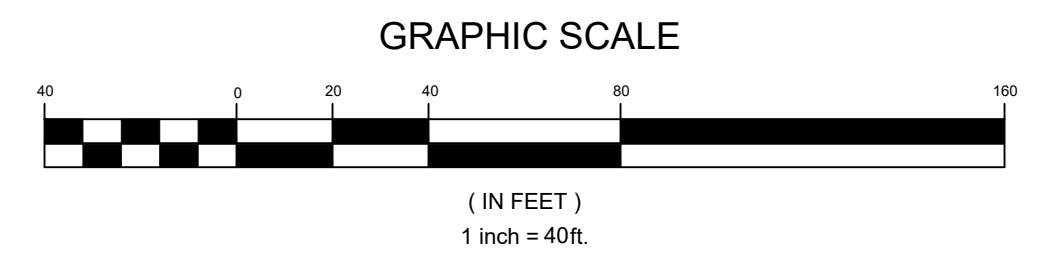


LAYOUT PLAN  
1"=40'

LEGEND		EXISTING FEATURES		PROPOSED FEATURES	
	EXISTING ADJOINER LINE		EXISTING BOUNDARY LINE AND CORNERS		EXISTING EDGE OF PAVEMENT AND CURB LINE
	EXISTING RIGHT-OF-WAY		EXISTING FENCE		EXISTING SEWER
	EXISTING STORMWATER		EXISTING WATERLINE		EXISTING GASLINE
	EXISTING SETBACK		PROPOSED BUILDING SETBACK		PROPOSED BOUNDARY LINE AND CORNERS
	PROPOSED RIGHT-OF-WAY		PROPOSED FENCE		PROPOSED SEWER
	PROPOSED STORMWATER		PROPOSED STORMWATER		PROPOSED TREE
	EXISTING SIDEWALK/CONCRETE		PROPOSED DOMESTIC WATERLINE		PROPOSED GASLINE
	EXISTING CONTOURS		PROPOSED CONCRETE/SIDEWALK		PROPOSED CONTOURS
	EXISTING TREELINE		PROPOSED TREELINE		PROPOSED UTILITY POLE
	EXISTING SOILS		PROPOSED LIGHT POLE		PROPOSED PAVING
	EXISTING UTILITY POLE		INFILTRATION TEST LOCATION		PROPOSED STORMWATER MANAGEMENT EASEMENT
	EXISTING LIGHT POLE				
	EXISTING IPF				



EASEMENT PLAN  
1"=40'



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**STORMWATER MANAGEMENT PLAN**  
 FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
 NORTH LEBANON TOWNSHIP, LEBANON, PA  
 FEBRUARY 19, 2026

**CHRISTIAN ENGINEERING INC.**  
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 Layout & Easement Plan

MA1\_24.1  
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**LEGEND**

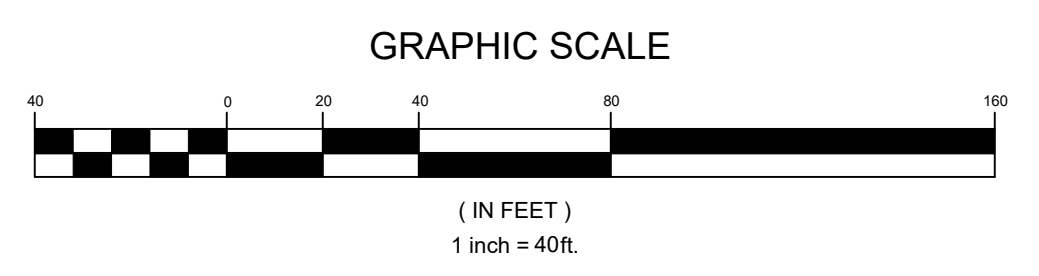
**EXISTING FEATURES**

- EXISTING ADJOINER LINE
- EXISTING BOUNDARY LINE AND CORNERS
- EXISTING EDGE OF PAVEMENT AND CURB LINE
- EXISTING RIGHT-OF-WAY
- EXISTING FENCE
- EXISTING SEWER
- EXISTING STORMWATER
- EXISTING WATERLINE
- EXISTING GASLINE
- EXISTING SETBACK
- EXISTING SIDEWALK/CONCRETE
- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING SOILS
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING IFF

**PROPOSED FEATURES**

- PROPOSED BUILDING SETBACK
- PROPOSED BOUNDARY LINE AND CORNERS
- PROPOSED RIGHT-OF-WAY
- PROPOSED FENCE
- PROPOSED SEWER
- PROPOSED STORMWATER
- PROPOSED TREE
- PROPOSED DOMESTIC WATERLINE
- PROPOSED GASLINE
- PROPOSED CONCRETE/SIDEWALK
- PROPOSED CONTOURS
- PROPOSED TREELINE
- PROPOSED UTILITY POLE
- PROPOSED LIGHT POLE
- PROPOSED PAVING
- INFILTRATION TEST LOCATION
- PROPOSED STORMWATER MANAGEMENT EASEMENT

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
CkA	Clarksburg Silt Loam	5.8	C	62.8	0"-84"	N
CkB	Clarksburg Silt Loam	3.5	C	37.2	0"-84"	N



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**GRADING & UTILITY PLAN**  
1"=40'

**STORMWATER MANAGEMENT PLAN**  
FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
NORTH LEBANON TOWNSHIP, LEBANON, PA

**CHRISTIAN ENGINEERING**  
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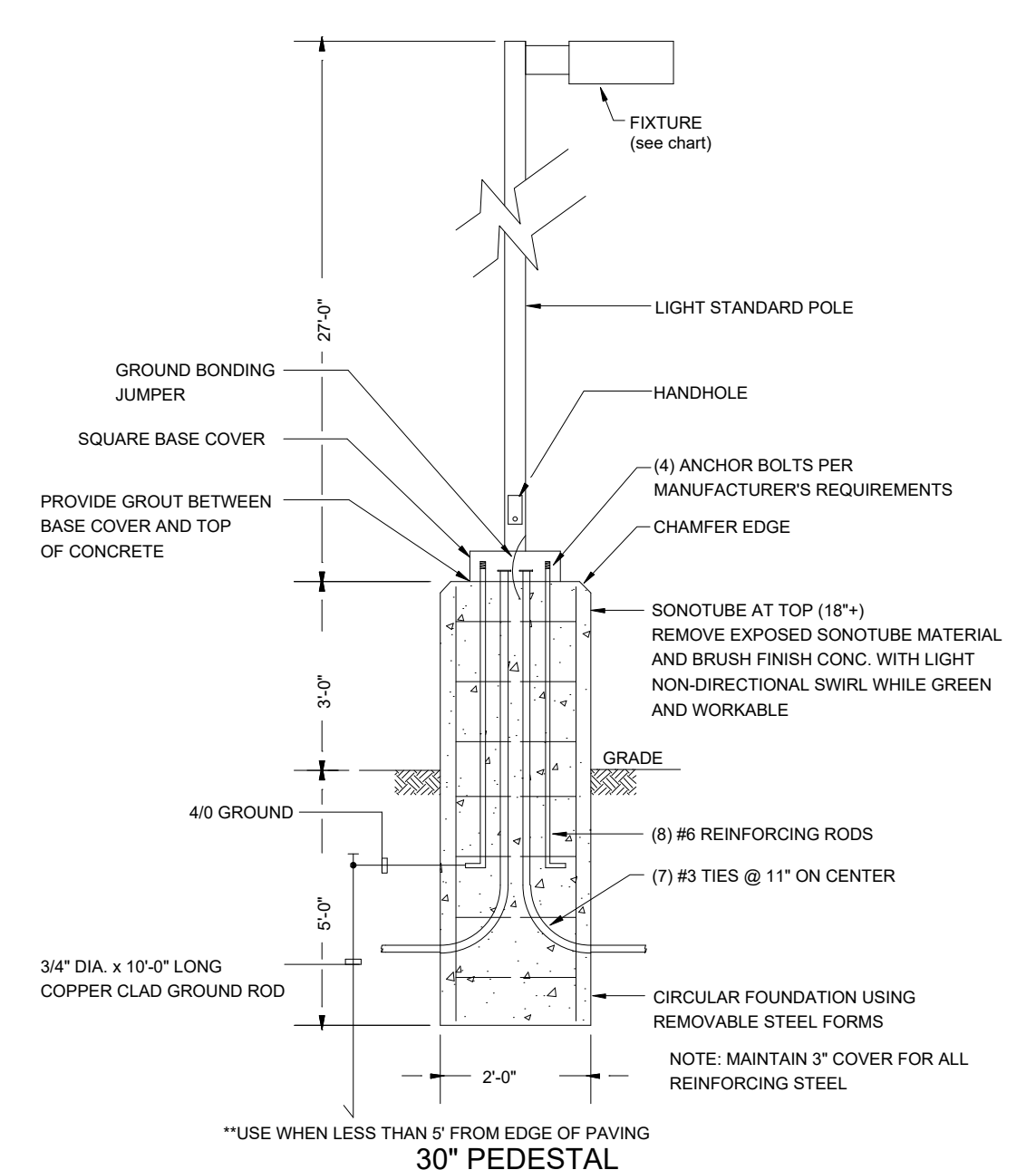
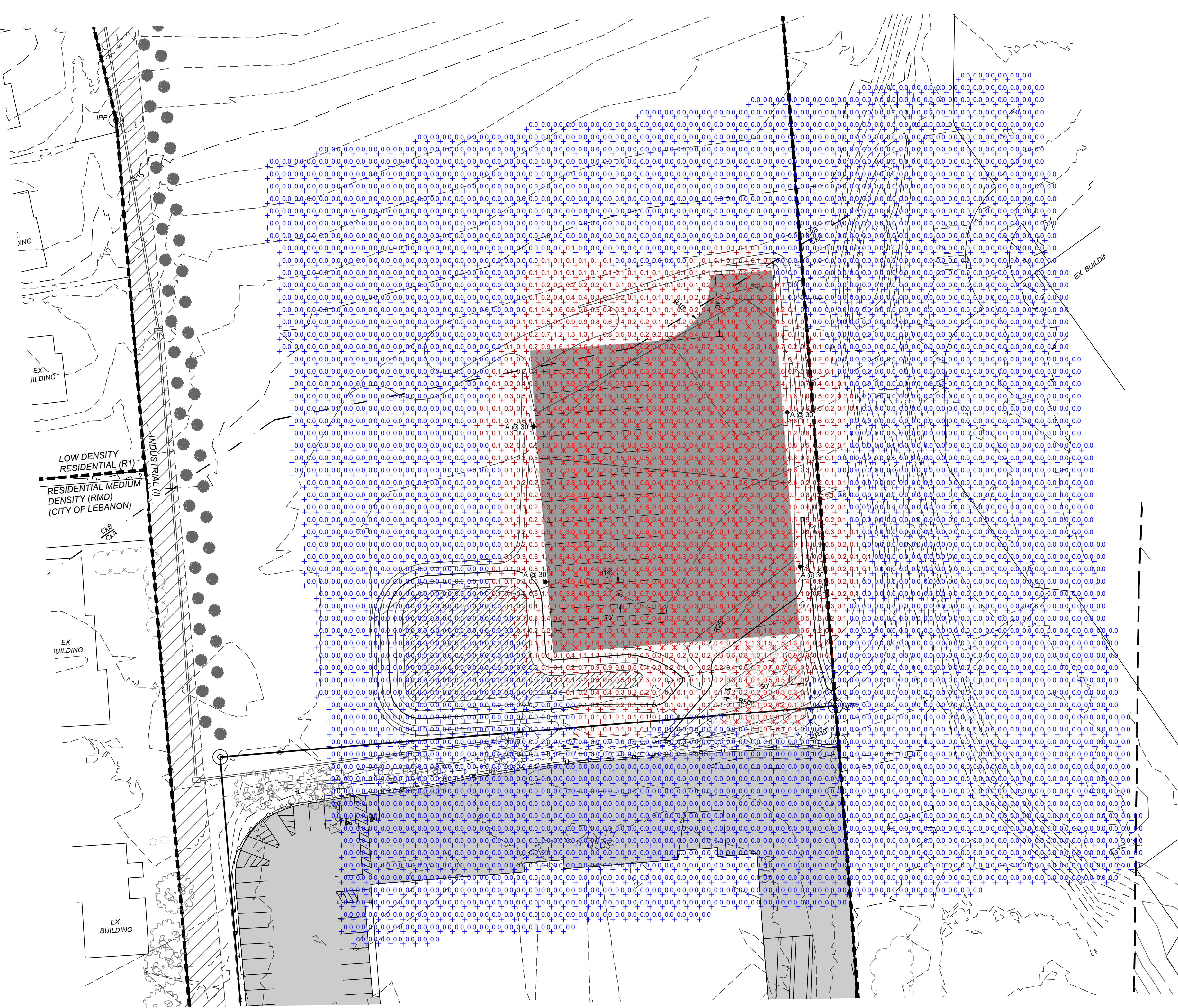
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Grading & Utility Plan

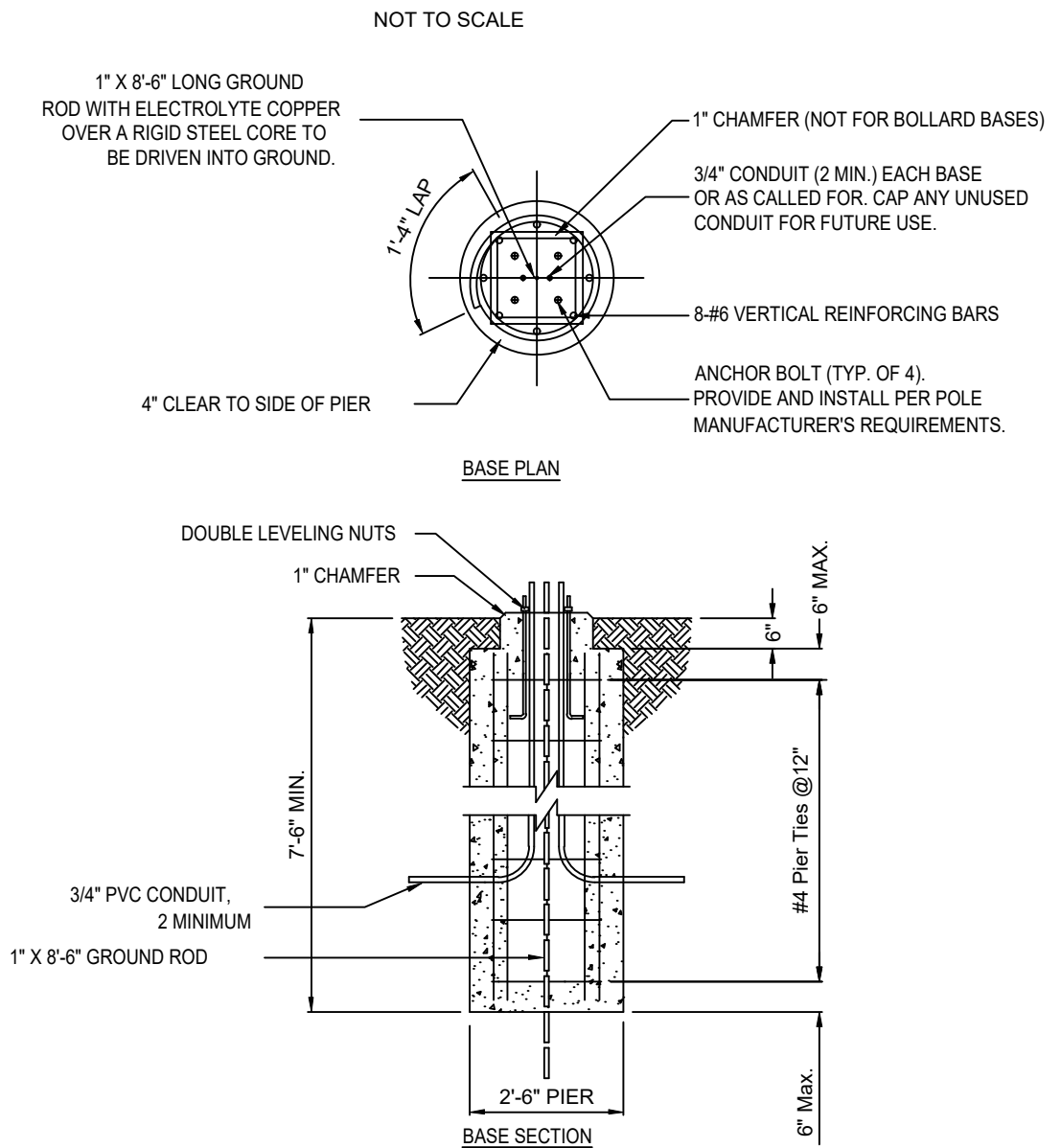
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Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
A	4	Lithonia Lighting	RSX2 LED P4 50K R4 HS	REX LED AREA LUMINAIRE SIZE 2 P4 LUMEN PACKAGE 500K CCT TYPE RA DISTRIBUTION WITH HS SHIELD	1	16647	1	189.54



NOTES:  
 1. For pedestal mount, fixture mounting height to be 17 feet (pole height) plus 3\"/>

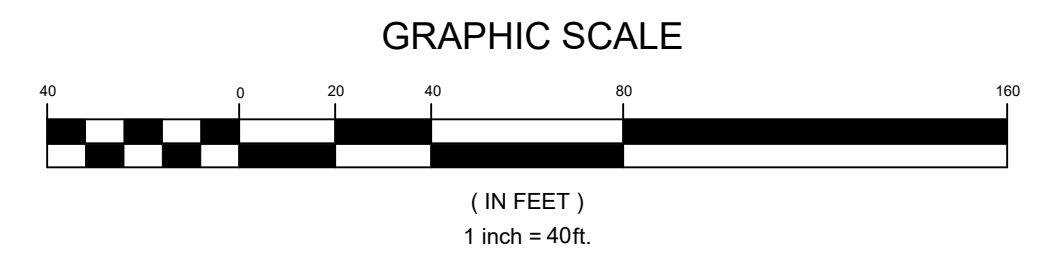
**TYPICAL LIGHT STANDARD MOUNTING DETAILS**



NOTES:  
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
 2. DO NOT SCALE DRAWINGS.  
 3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 000-228.

**CONCRETE BASE FOR LIGHT DETAIL**

LEGEND	
	EXISTING BOUNDARY LINE AND CORNERS
	EXISTING EDGE OF PAVEMENT AND CURB LINE
	EXISTING RIGHT-OF-WAY
	EXISTING SEWER
	EXISTING FENCE
	EXISTING STORMWATER
	EXISTING WATERLINE
	EXISTING GASLINE
	EXISTING SETBACK
	EXISTING SIDEWALK/CONCRETE
	EXISTING CONTOURS
	EXISTING TREELINE
	EXISTING SOILS
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING IPF
<b>PROPOSED FEATURES</b>	
	PROPOSED BUILDING SETBACK
	PROPOSED BOUNDARY LINE AND CORNERS
	PROPOSED RIGHT-OF-WAY
	PROPOSED FENCE
	PROPOSED SEWER
	PROPOSED STORMWATER
	PROPOSED DOMESTIC WATERLINE
	PROPOSED GASLINE
	PROPOSED CONCRETE/SIDEWALK
	PROPOSED CONTOURS
	PROPOSED TREELINE
	PROPOSED LIGHT POLE
	PROPOSED PAVING
	INFILTRATION TEST LOCATION
	PROPOSED STORMWATER MANAGEMENT EASEMENT
	PROPOSED TREE



**LIGHTING PLAN**  
1"=40'

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
CkA	Clarksburg Silt Loam	5.8	C	62.8	0'-84"	N
CkB	Clarksburg Silt Loam	3.5	C	37.2	0'-84"	N

**STORMWATER MANAGEMENT PLAN**  
FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
 NORTH LEBANON TOWNSHIP, LEBANON, PA

FEBRUARY 19, 2026

Lighting Plan  
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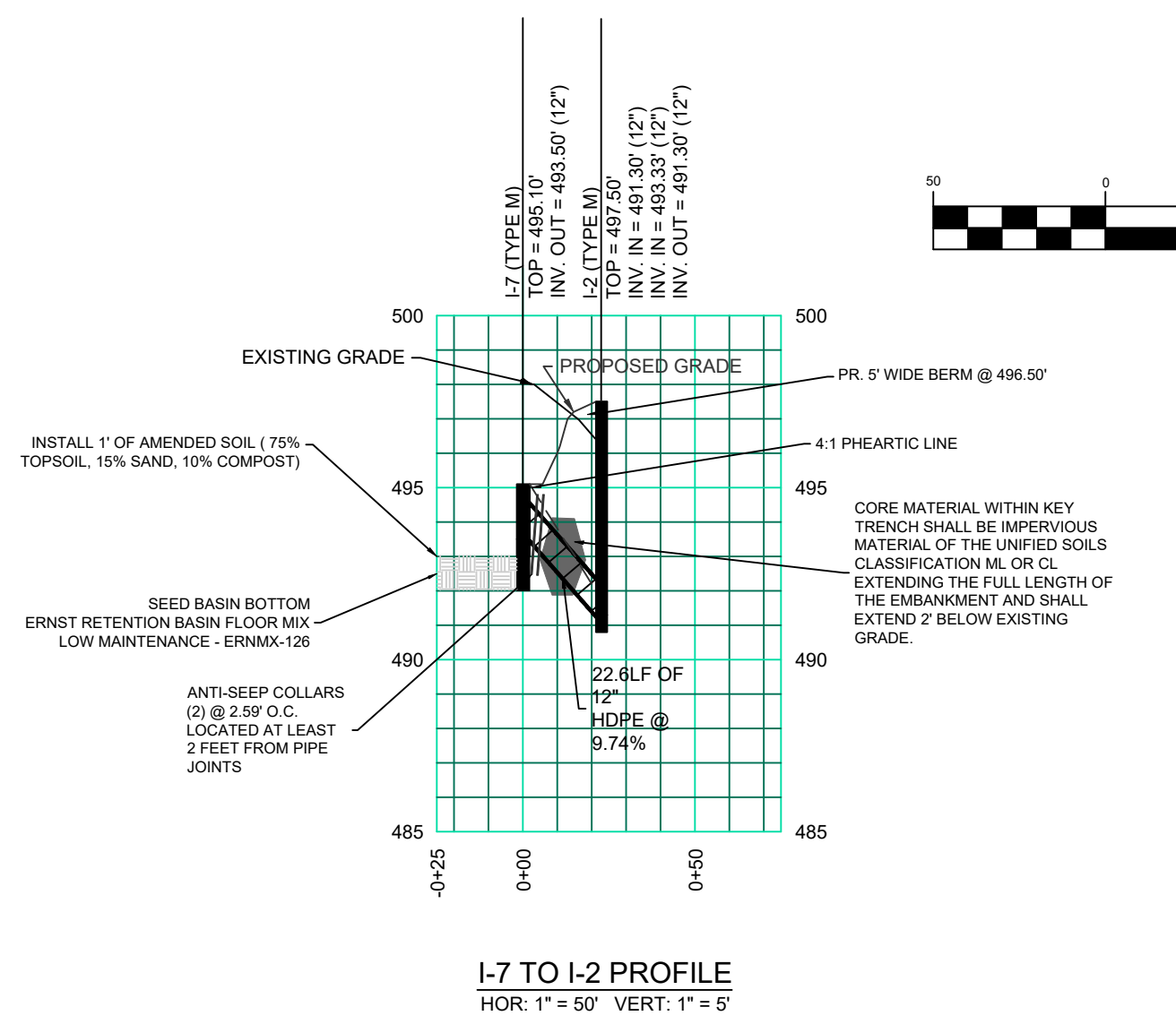
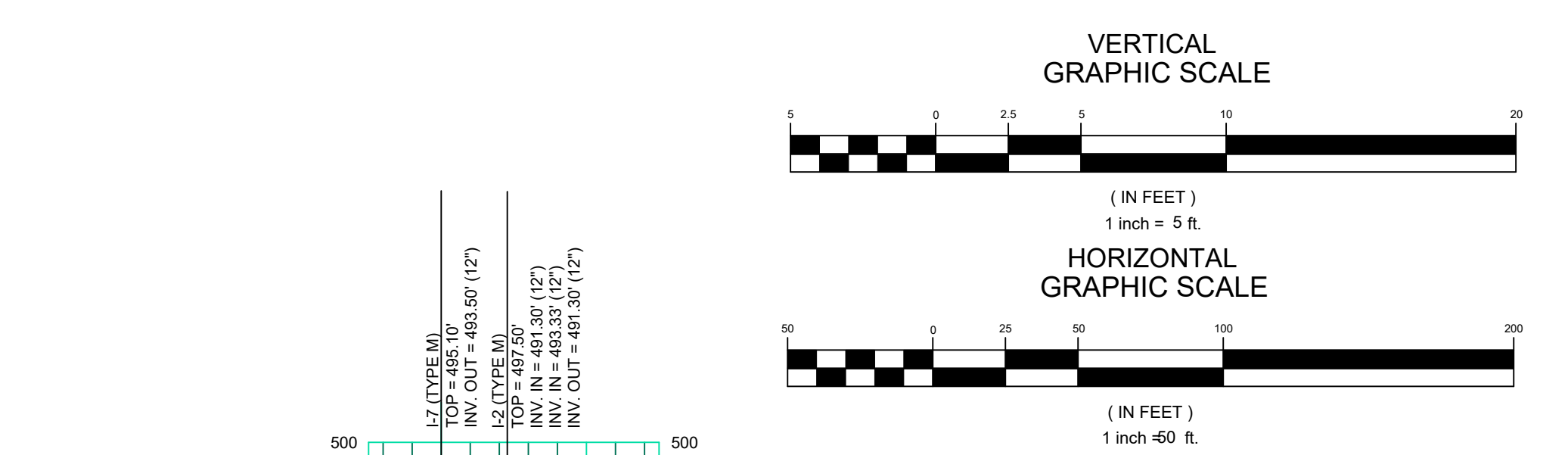
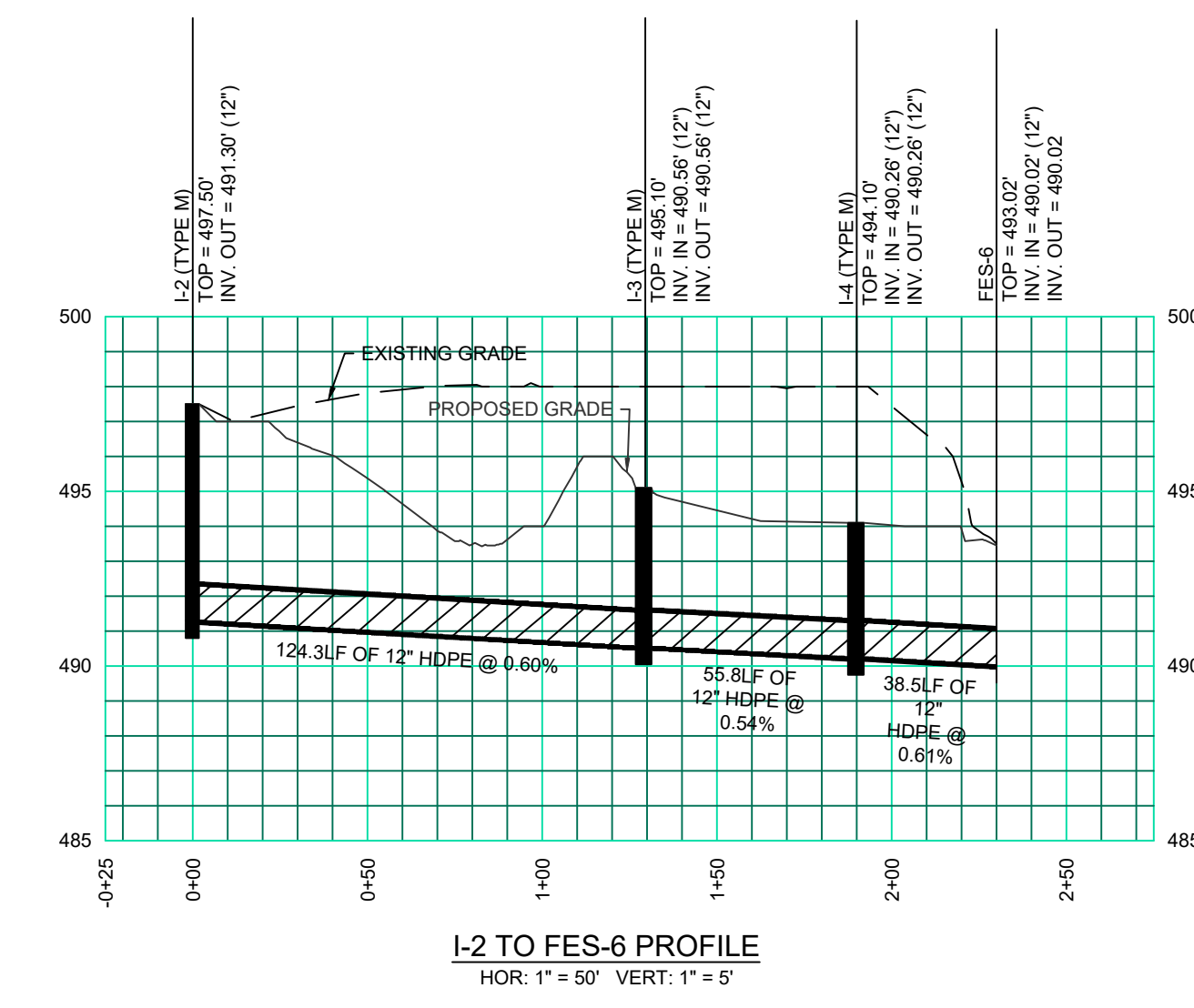
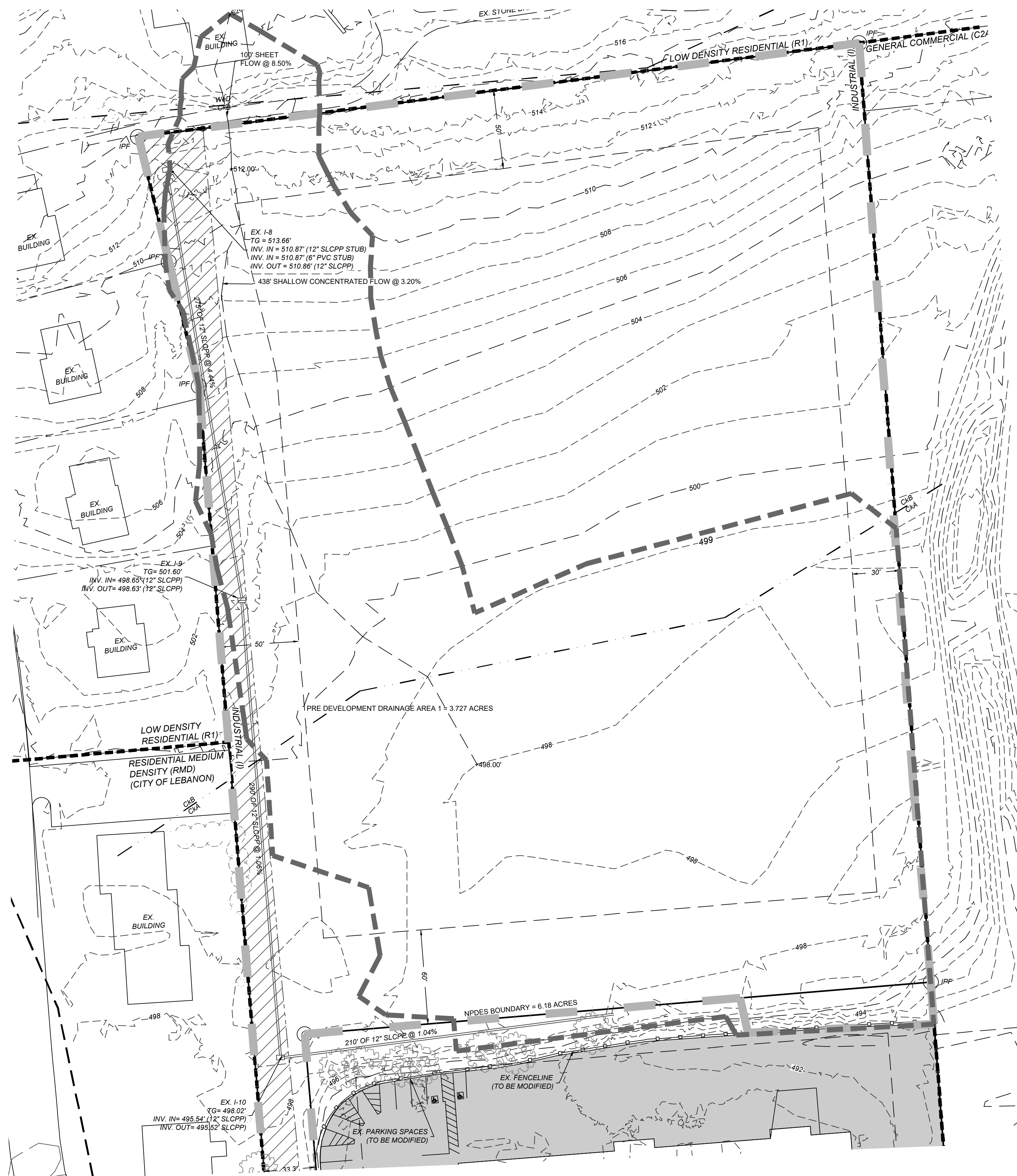
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LEGEND		EXISTING FEATURES		PROPOSED FEATURES	
	EXISTING ADJOINTER LINE		EXISTING SIDEWALK/CONCRETE		PROPOSED BUILDING SETBACK
	EXISTING BOUNDARY LINE AND CORNERS		EXISTING CONTOURS		PROPOSED BOUNDARY LINE AND CORNERS
	EXISTING EDGE OF PAVEMENT AND CURB LINE		EXISTING TREELINE		PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY		EXISTING SOILS		PROPOSED FENCE
	EXISTING FENCE		EXISTING UTILITY POLE		PROPOSED SEWER
	EXISTING SEWER		EXISTING LIGHT POLE		PROPOSED STORMWATER
	MANHOLE		EXISTING IPF		PROPOSED TREE
	CLEAN OUT		PROPOSED STORMWATER MANAGEMENT EASEMENT		PROPOSED STORMWATER MANAGEMENT EASEMENT
	MANHOLE WITH RIP-RAP		PROPOSED PAVING		INFILTRATION TEST LOCATION
	MANHOLE WITH INLET				
	HEADWALL				
	GATE VALVE				
	FIRE HYDRANT				
	GAS VALVE				
	EXISTING GASLINE				
	EXISTING SETBACK				

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
CkA	Clarksburg Silt Loam	5.8	C	62.8	0'-84"	N
CkB	Clarksburg Silt Loam	3.5	C	37.2	0'-84"	N



**PRE - DEVELOPMENT DRAINAGE PLAN**  
1"=40'

**STORMWATER MANAGEMENT PLAN**  
FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
NORTH LEBANON TOWNSHIP, LEBANON, PA

FEBRUARY 19, 2026

**CHRISTIAN ENGINEERING**  
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PC-SW 1  
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OF 13

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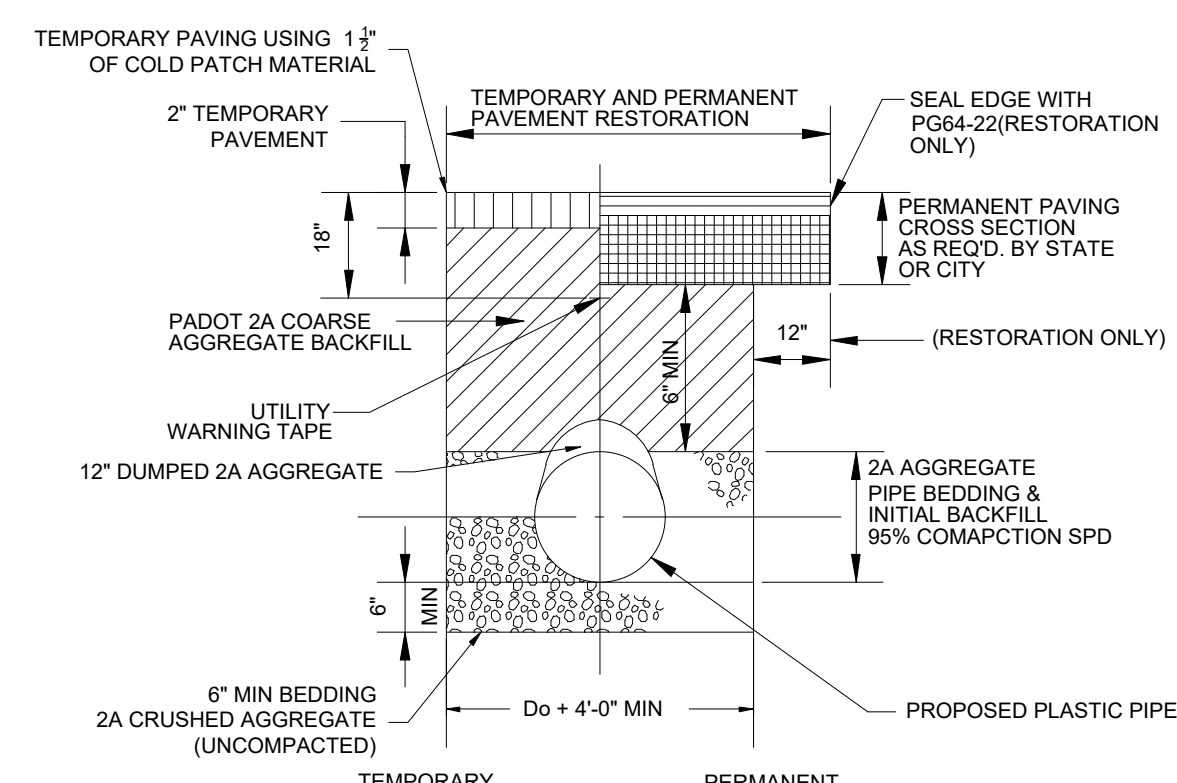




APPLICATION	SPECIES	APPLICATION RATE 1 (P.L.S. IN LBS/AC)	FERTILIZER (LBS/ACRE)	LIMING RATE 2 (TONS/ACRE)	FINAL SEEDING DATE
TEMPORARY	ANNUAL RYE	174	50-50-50 N-P-K @ 1/2	AG GRADE	OCTOBER 30
PERMANENT	FINE FESCUES	60	100-200-200 N-P-K @ 1/2	6 AG GRADE	AUGUST 30 AND OCTOBER 30
	KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	90			
ATHLETIC FIELDS	KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	150	100-200-200 N-P-K @ 1/2	6 AG GRADE	AUGUST 30 AND OCTOBER 30
	RIPARIAN BUFFER	20	100-200-200 N-P-K @ 1/2	6 AG GRADE	AUGUST 30 AND OCTOBER 30
NURSE CROP	ANNUAL RYE	64	50-50-50 N-P-K @ 1/2	1 TON/AC AG GRADE	OCT. 15
PERMANENT	BIRDSFOOT TREFLOL PLUS CROWN VETCH PLUS TALL FESCUE	10	100-200-200 N-P-K @ 1/2	1 TON/AC AG GRADE	MARCH 15 AND OCT. 15
		20			
		30			

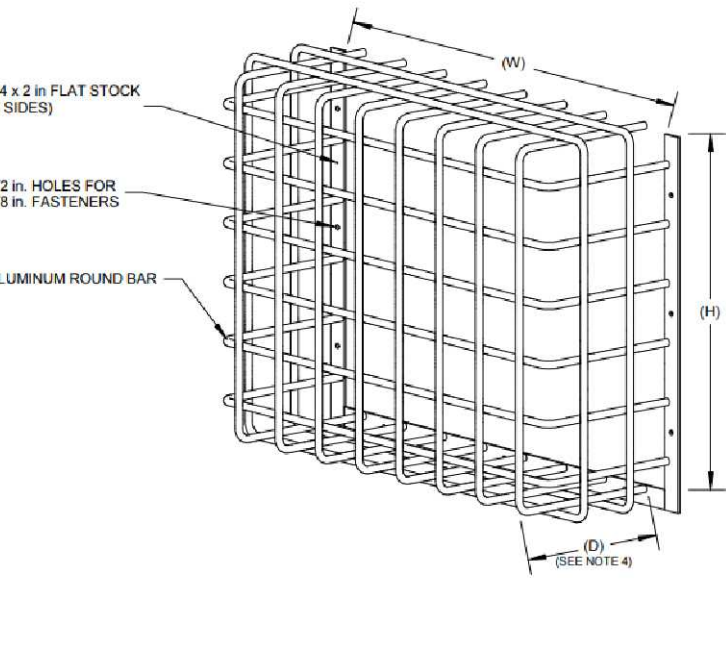
- PLS IS PURE LIVE SEED. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO SECURE THE ACTUAL PLANTING RATE, DIVIDE THE POUNDS PLS BY THE PLS PERCENTAGE SHOWN ON THE SEED TAG OR AS PREVIOUSLY DISCUSSED. THUS, IF THE PLS CONTENT OF FINE FESCUES IS 50%, DIVIDE 7 PLS BY 0.50 TO OBTAIN 140 POUNDS OF SEED PER ACRE.
  - LIMING RATE SHALL BE IN ACCORDANCE WITH SOIL TEST RESULTS. APPLY 6 TONS OF AGRICULTURAL GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS.
- ALL SEEDING AREAS SHALL BE MULCHED WITH STRAW APPLIED AT A RATE OF 3 TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC.  
- ALL DIVERSIONS, CHANNELS, SEED TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

**SEEDING & FERTILIZER SPECIFICATIONS**



- ALL TRENCH RESTORATION SHALL BE IN ACCORDANCE WITH PENNDOT RC-30M.
- IF UNSUITABLE MATERIAL IS FOUND, UNDERCUT AS DIRECTED AND BACKFILL WITH SUITABLE MATERIAL TO BOTTOM OF BEDDING ELEVATION OF THE PIPE, 18" MAX.
- PLACE 2A COARSE AGGREGATE MATERIAL IN LIFTS 5" THICK, ADJACENT TO THE LOWER HAUNCHES TO A HEIGHT OF 12" THICK ABOVE TOP OF PIPE. COMPACT TO NON-MOVEMENT. TEST BACKFILL MATERIAL AND CONTINUE EMBANKMENT IN ACCORDANCE WITH PUBLICATION 408, SECTION 601.
- COMPACT TOP 3'-0" OF SUBGRADE TO 100% AS SPECIFIED IN PUBLICATION 408, SECTION 206.3. COMPACT 2A COARSE AGGREGATE TO NON-MOVEMENT AS PER NOTE 3. COMPACT SUITABLE MATERIAL TO MINIMUM 97% SPD. USE 2A COARSE AGGREGATE OR SUITABLE MATERIAL AS SPECIFIED IN PUBLICATION 408, SECTION 601.3(F)3, FOR FLOWABLE BACKFILL REQUIREMENTS SEE SHEET 5 OF 6.
- (TYPICAL FOR STATE HIGHWAYS, AND TOWNSHIP ROADS, SHOULDER & DRIVEWAYS)

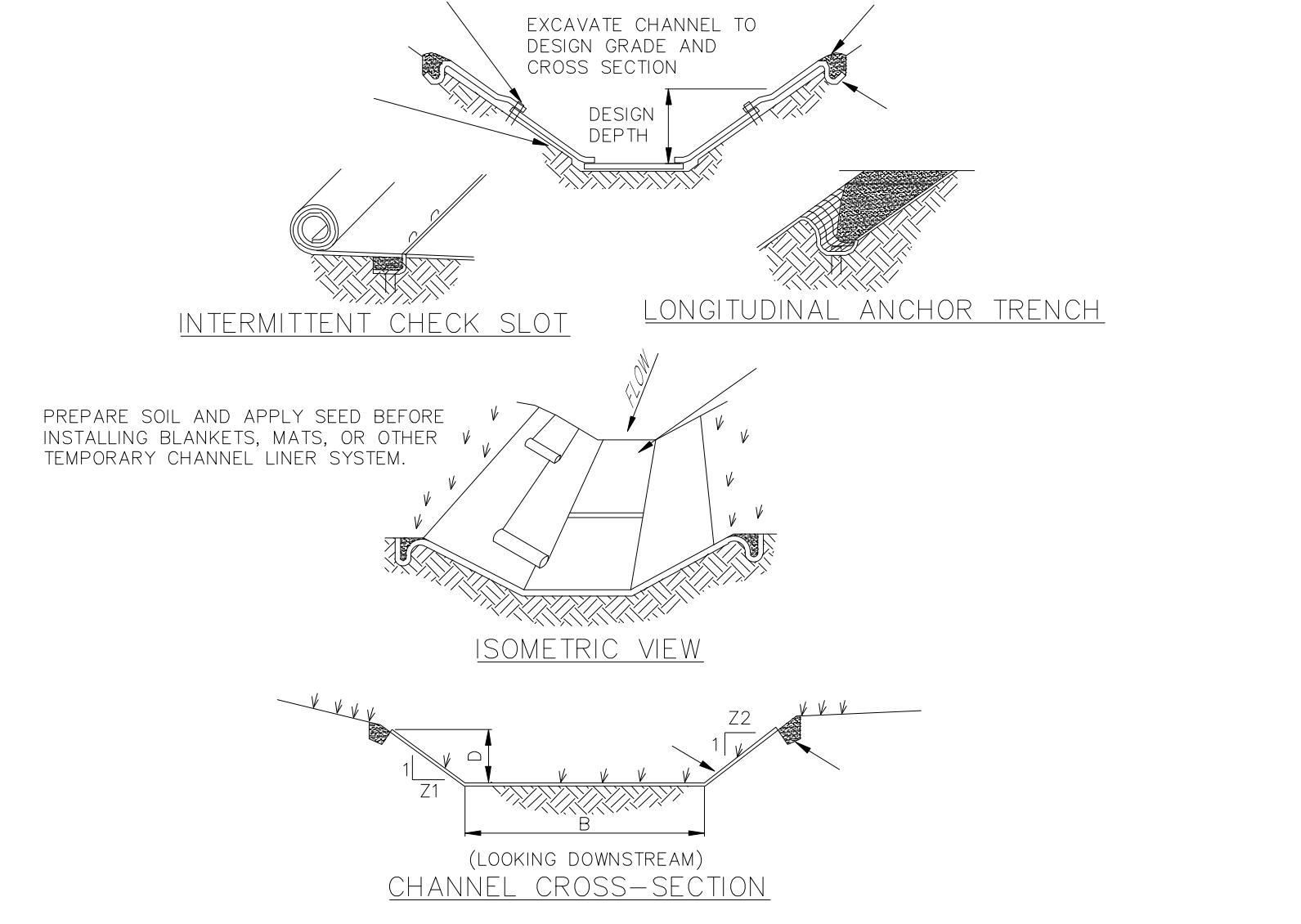
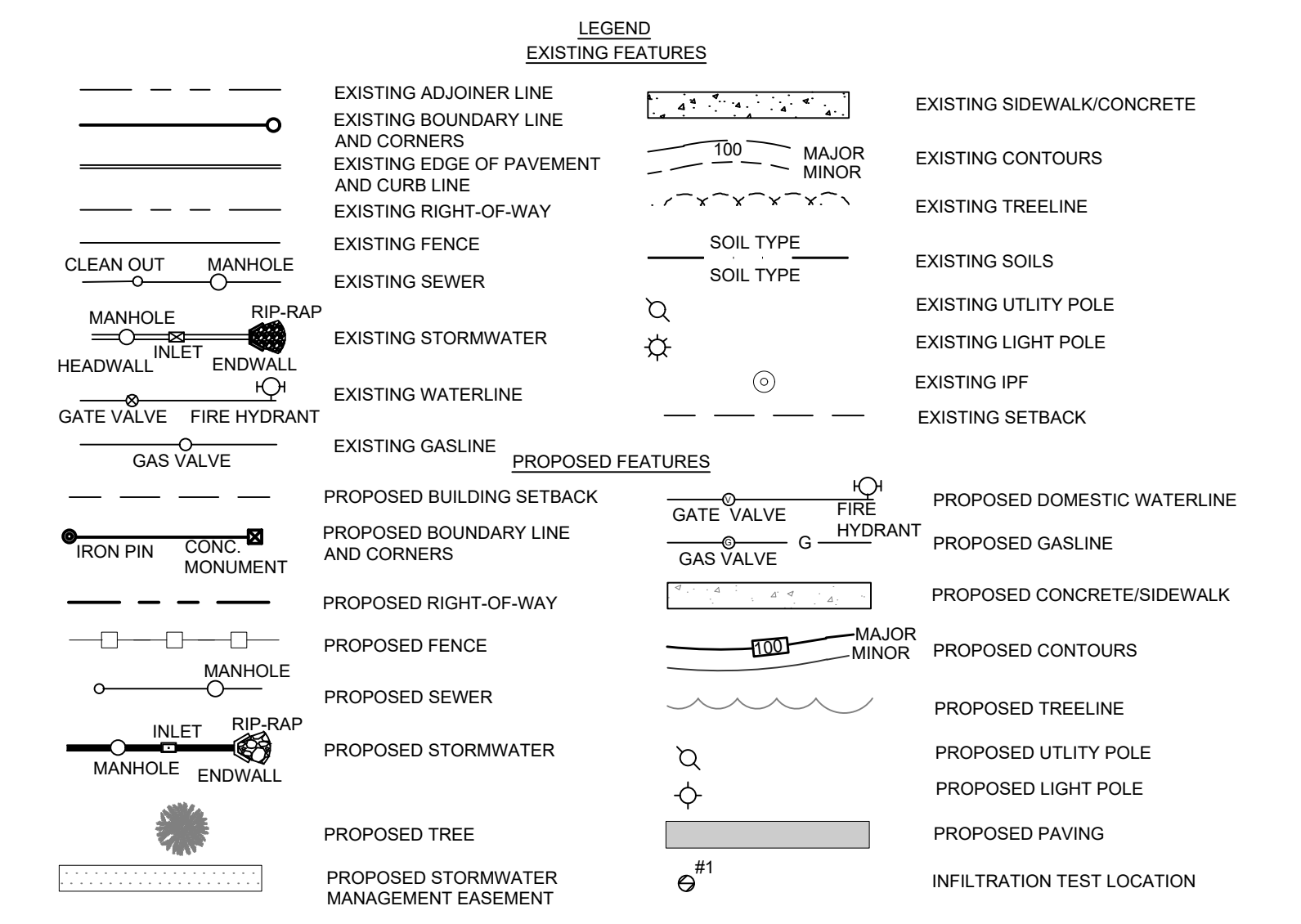
**STREET CUT AND TRENCH RESTORATION DETAIL**



TRASH RACK INFORMATION	
RACK WIDTH I.D. (W)	4"
RACK HEIGHT I.D. (H)	4"
RACK DEPTH O.D. (D)	3"
BAR DIAMETER (1/2" OR 3/4")	1/2"
BAR CENTERLINE SPACING	1"
STRUCTURE OPENING W	3" DIA.
STRUCTURE OPENING H	3" DIA.
WEIR EXTENDS TO TOP?	YES
FASTENERS (QTY)	4 (CORNERS ONLY)
WIRE MESH?	NO

- NOTES:
- ALL MATERIALS TO BE ALUMINUM 6061-T6 ALLOY.
  - WELD ALL INTERSECTIONS.
  - FASTEN TO CONCRETE STRUCTURE WITH 3/8 in. x 3 in. STAINLESS STEEL CONCRETE WEDGE ANCHORS AT 18 in. MAX. SPACING, MINIMUM OF 4).
  - DEPTH TO O.D. OF RACK. IF THE CONCRETE WEIR EXTENDS TO THE TOP OF THE STRUCTURE, THE DEPTH OF THE TOP BARS WILL EXTEND TO MEET TOP GRATING OR FRAME OF STRUCTURE SO THERE IS NO GAP.
  - OVERALL RACK WIDTH = (W) + 4 INCHES
  - OVERALL RACK HEIGHT = (H) + BAR DIAMETER + 2 INCHES
  - OPTIONAL - 10g STEEL WIRE MESH WITH 1 1/2 in. GRID TO COVER RACK.

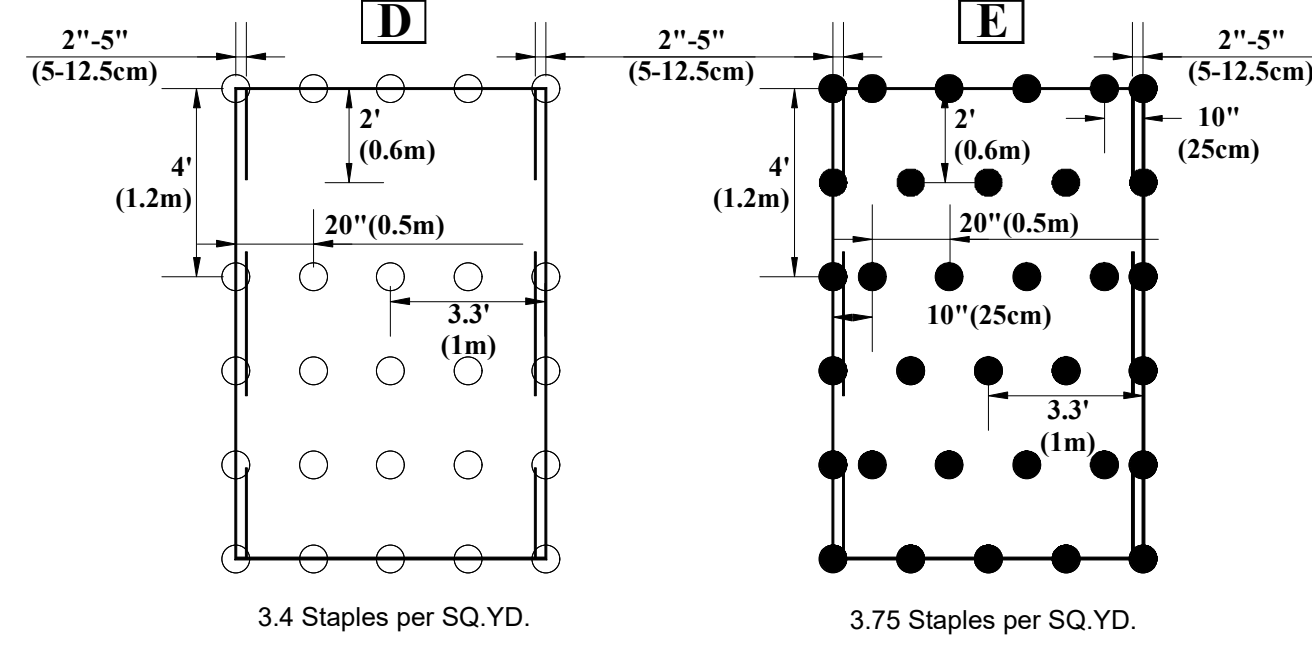
**SURFACE MOUNTED TRASH RACK DETAIL**



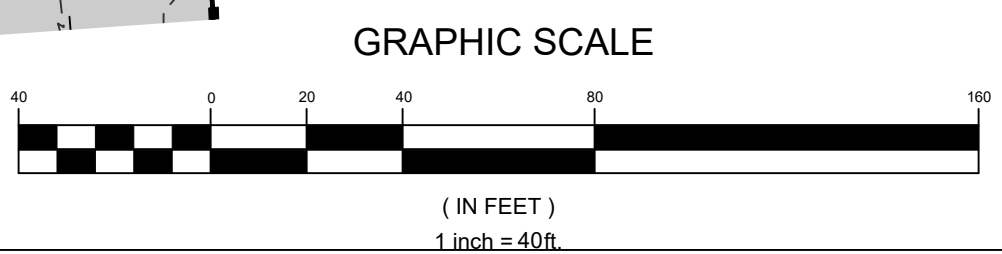
CHANNEL	STATIONS	B (ft)	D (ft)	Z1	Z2	LINING	Staple Pattern
A	All	1.5	1.5	3	3	Grass/N.A.G. S75	D
B	All	2	1	3	3	Grass/N.A.G. S75	D

\* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

**STANDARD CONSTRUCTION DETAIL VEGETATED CHANNEL**



**STAPLE PATTERN FOR TRM LINING**



**INLET DRAINAGE PLAN**

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**STORMWATER MANAGEMENT PLAN**  
FOR  
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NORTH LEBANON TOWNSHIP, LEBANON, PA

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Pre-2 & Post Development Plan  
PC-SM3  
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FEBRUARY 19, 2026

**VEGETATED SWALE**

A VEGETATED SWALE TYPICALLY CONSISTS OF A BAND OF DENSE VEGETATION, UNDERLAIN BY AT LEAST 24 INCHES OF PERMEABLE SOIL. SWALES CONSTRUCTED WITH AN UNDERLYING 12 TO 24 INCH AGGREGATE LAYER PROVIDE SIGNIFICANT VOLUME REDUCTION AND REDUCE THE STORMWATER CONVEYANCE RATE. THE PERMEABLE SOIL MEDIA SHOULD HAVE A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR AND CONTAIN A HIGH LEVEL OF ORGANIC MATERIAL TO ENHANCE POLLUTANT REMOVAL. A NONWOVEN GEOTEXTILE SHOULD COMPLETELY WRAP THE AGGREGATE TRENCH.

**CONSTRUCTION SEQUENCE**

- BEGIN VEGETATED SWALE CONSTRUCTION ONLY WHEN THE UPGRADED TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. VEGETATED SWALES SHOULD BE CONSTRUCTED AND STABILIZED EARLY IN THE CONSTRUCTION SCHEDULE. PREFERABLY BEFORE PAVING. INCREASE THE RATE AND VOLUME OF RUNOFF. (EROSION AND SEDIMENT CONTROL METHODS SHALL ADHERE TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, MARCH 2000 OR LATEST EDITION.)
- ROUGH GRADE THE VEGETATED SWALE. EQUIPMENT SHALL AVOID EXCESSIVE COMPACTION AND/OR LAND DISTURBANCE. EXCAVATING EQUIPMENT SHOULD OPERATE FROM THE SIDE OF THE SWALE AND NEVER ON THE BOTTOM. IF EXCAVATION LEADS TO SUBSTANTIAL COMPACTION OF THE SUBGRADE (WHERE AN INFILTRATION TRENCH IS NOT PROPOSED), 18 INCHES SHALL BE REMOVED AND REPLACED WITH A BLEND OF TOPSOIL AND SAND TO PROMOTE INFILTRATION AND BIOLOGICAL GROWTH. AT THE VERY LEAST, TOPSOIL SHALL BE THOROUGHLY DEEP FLOWED INTO THE SUBGRADE IN ORDER TO PENETRATE THE COMPACTED ZONE AND PROMOTE AERATION AND THE FORMATION OF MACROPORES. FOLLOWING THIS, THE AREA SHOULD BE DISKED PRIOR TO FINAL GRADING OF TOPSOIL.
- CONSTRUCT FILTER SOCK CHECK DAMS, IF REQUIRED. INSTALL IN ACCORDANCE WITH FILTER SOCK DETAIL AT LOCATIONS INDICATED ON THE PLAN.
- FINE GRADE THE VEGETATED SWALE. ACCURATE GRADING IS CRUCIAL FOR SWALES. EVEN THE SMALLEST NONCONFORMITIES MAY COMPROMISE FLOW CONDITIONS.
- SEED, VEGETATE AND INSTALL PROTECTIVE LINING AS PER APPROVED PLANS AND ACCORDING TO FINAL PLANTING LIST. PLANT THE SWALE AT A TIME OF THE YEAR WHEN SUCCESSFUL ESTABLISHMENT WITHOUT IRRIGATION IS MOST LIKELY. HOWEVER, TEMPORARY IRRIGATION MAY BE NEEDED IN PERIODS OF LITTLE RAIN OR DROUGHT. VEGETATION SHOULD BE ESTABLISHED AS SOON AS POSSIBLE TO PREVENT EROSION AND SCOUR.
- ONCE ALL TRIBUTARY AREAS ARE SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. IT IS VERY IMPORTANT THAT THE SWALE BE STABILIZED BEFORE RECEIVING UPLAND STORMWATER FLOW.
- FOLLOW MAINTENANCE GUIDELINES, AS DESCRIBED BELOW.

NOTE: IF A VEGETATED SWALE IS USED FOR CONVEYANCE DURING CONSTRUCTION, IT SHOULD BE REGRADED AND RESEEDED IMMEDIATELY AFTER CONSTRUCTION AND STABILIZATION HAS OCCURRED. ANY DAMAGED AREAS SHOULD BE FULLY RESTORED TO ENSURE FUTURE FUNCTIONALITY OF THE SWALE.

**MAINTENANCE ISSUES**

COMPARED TO OTHER STORMWATER MANAGEMENT MEASURES, THE REQUIRED upkeep of vegetated swales is relatively low. IN GENERAL, MAINTENANCE STRATEGIES FOR SWALES FOCUS ON SUSTAINING THE HYDRAULIC AND POLLUTANT REMOVAL EFFICIENCY OF THE CHANNEL, AS WELL AS MAINTAINING A DENSE VEGETATIVE COVER. EXPERIENCE HAS PROVEN THAT PROPER MAINTENANCE ACTIVITIES ENSURE THE FUNCTIONALITY OF VEGETATED SWALES FOR MANY YEARS. THE FOLLOWING SCHEDULE OF INSPECTION AND MAINTENANCE ACTIVITIES IS RECOMMENDED:

MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH):

- INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION)
- INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED
- INSPECT FOR POOLS OF STANDING WATER; DEWATER AND DISCHARGE TO AN APPROVED LOCATION AND RESTORE TO DESIGN GRADE
- MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN SWALE IS DRY TO AVOID RUTTING
- INSPECT FOR LITTER; REMOVE PRIOR TO MOWING
- INSPECT FOR UNIFORMITY IN CROSS-SECTION AND LONGITUDINAL SLOPE, CORRECT AS NEEDED
- INSPECT SWALE INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED

**MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:**

- RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG 575 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT WAS NOT SUCCESSFUL.
- RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING
- ROTOILL AND REPLANT SWALE IF DRAW DOWN TIME IS MORE THAN 48 HOURS
- INSPECT AND CORRECT CHECK DAMS WHEN SIGNS OF ALTERED WATER FLOW (CHANNELIZATION, OBSTRUCTIONS, EROSION, ETC.) ARE IDENTIFIED
- WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY

MOST OF THE ABOVE MAINTENANCE ACTIVITIES ARE REASONABLY WITHIN THE ABILITY OF INDIVIDUAL HOMEOWNERS. MORE INTENSIVE SWALES (I.E. MORE SUBSTANTIAL VEGETATION, CHECK DAMS, ETC.) MAY WARRANT MORE INTENSIVE MAINTENANCE DUTIES AND SHOULD BE VESTED WITH A RESPONSIBLE AGENCY. A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT BETWEEN THE FACILITY OWNER AND THE LOCAL REVIEW AUTHORITY MUST BE OBTAINED TO ENSURE SUSTAINED MAINTENANCE EXECUTION. WINTER CONDITIONS ALSO NECESSITATE ADDITIONAL MAINTENANCE CONCERNS, WHICH INCLUDE THE FOLLOWING:

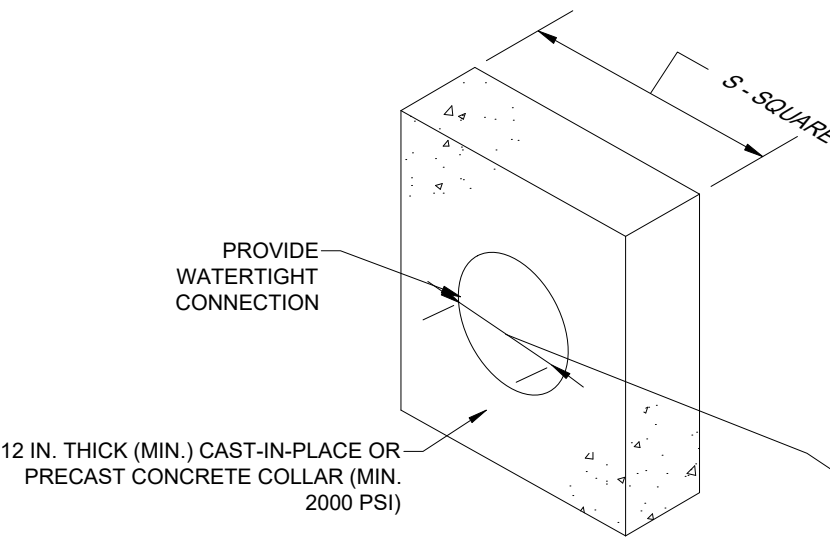
- INSPECT SWALE IMMEDIATELY AFTER THE SPRING MELT, REMOVE RESIDUALS (E.G. SAND) AND REPLACE DAMAGED VEGETATION WITHOUT DISTURBING REMAINING VEGETATION.
- VEGETATION IN SWALES SHALL BE PROVIDED IN ACCORDANCE WITH THE SEEDING AND FERTILIZING SPECIFICATIONS SHOWN HEREON.

**SPECIFICATIONS**

- SWALE SOIL SHALL BE USCS CLASS ML (INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS WITH SLIGHT PLASTICITY), SM (SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES), SW (WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES) OR SC (CLAYEY SANDS, POORLY GRADED SAND-SILT MIXTURES). THE FIRST THREE OF THESE DESIGNATIONS ARE PREFERRED FOR SWALES IN COLD CLIMATES. IN GENERAL, SOIL WITH A HIGHER PERCENT ORGANIC CONTENT IS PREFERRED.
- SWALE SAND SHALL BE ASTM C-33 FINE AGGREGATE CONCRETE SAND (0.02 IN TO 0.04 IN).
- CHECK DAMS CONSTRUCTED OF NATURAL WOOD SHALL BE 6 IN TO 12 IN DIAMETER AND NOTCHED AS NECESSARY. THE FOLLOWING SPECIES ARE ACCEPTABLE: BLACK LOCUST, RED MULBERRY, CEDARS, CATALPA, WHITE OAK, CHESTNUT OAK, BLACK WALNUT. THE FOLLOWING SPECIES ARE NOT ACCEPTABLE, AS THEY CAN ROT OVER TIME: ASH, BEECH, BIRCH, ELM, HACKBERRY, HEMLOCK, HICKORIES, MAPLES, RED AND BLACK OAK, PINES, POPLAR, SPRUCE, SWEETGUM, AND WILLOW. AN EARTHEN CHECK DAM SHALL BE CONSTRUCTED OF SAND, GRAVEL, AND SANDY LOAM TO ENCOURAGE GRASS COVER (SAND: ASTM C-33 FINE CHECK DAM AGGREGATE CONCRETE SAND 0.02 IN TO 0.04 IN, GRAVEL: AASHTO M-43 0.5 IN TO 1.0 IN). A STONE SHALL BE CONSTRUCTED OF R-4 RIP RAP, OR EQUIVALENT.

**INLETS/PIPES**

- CONFIRM STORMWATER RUNOFF FLOWS FREELY INTO THE INFLOW SYSTEM.
- INSPECT ALL INFLOW SYSTEM COMPONENTS FOR TRASH, DEBRIS, SEDIMENT, AND UNDESIRABLE VEGETATION. UNDESIRABLE VEGETATION INCLUDES ANY PLANTS THAT MAY IMPEDE FLOW INTO AND THROUGH THE INFLOW COMPONENT INCLUDING INVASIVE, NATIVE, OR WOODY PLANTS. DESIRABLE VEGETATION INCLUDES GRASS COVER IN A CONVEYANCE CHANNEL TO PREVENT SOIL EROSION. VEGETATION SHOULD BE MAINTAINED TO THE HEIGHTS INDICATED IN THE ROUTINE MAINTENANCE TABLES BASED ON THE PLAN DEPICTED VEGETATION TYPE.
- CHECK ALL INFLOW AREAS FOR EVIDENCE OF EROSION. INSPECT PIPE INFLOW AND OUTFLOW POINTS, CHANNELS, AND SHEET FLOW AREAS FOR SIGNS OF EROSION. PIPE INFLOW OR OUTFLOW POINTS SHOWING SIGNS OF SIGNIFICANT SEDIMENT BUILDUP SUGGEST POSSIBLE SEDIMENT BUILDUP THROUGHOUT THE SUBSURFACE PIPING SYSTEM AND SHOULD BE NOTED.
- CHECK FOR EXCESSIVE SEDIMENT BUILDUP AT ANY ENTRANCE TO OR WITHIN A COMPONENT OF AN INFLOW SYSTEM. IF PRESENT, CHECK THE SCM DRAINAGE AREA FOR BARE SOIL OR OTHER POSSIBLE SOURCES OF SEDIMENT.
- INSPECT INLETS, GRATES, CURBS AND CURB CUTS, HEADWALLS, AND ANY OTHER STRUCTURAL COMPONENTS VISIBLE ON THE SURFACE FOR SIGNS OF STRUCTURAL DAMAGE OR DETERIORATION.
- INSPECT THE GROUND SURFACE ABOVE BURIED PIPES AND STRUCTURES FOR DEPRESSIONS AND OTHER SIGNS OF PIPE OR STRUCTURAL DAMAGE, DETERIORATION, OR JOINT SEPARATION.



Basin	# of Collars	D (ft)	Size (ft)
1	2	1.21	2.59

**STANDARD CONSTRUCTION DETAIL #7-16**  
CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS  
NOT TO SCALE

**INFILTRATION BASINS**

BIORETENTION IS A METHOD OF TREATING STORMWATER BY POOLING WATER ON THE SURFACE AND ALLOWING FILTERING AND SETTLING OF SUSPENDED SOLIDS AND SEDIMENT AT THE MULCH LAYER, PRIOR TO ENTERING THE PLANT/SOIL/MICROBE COMPLEX MEDIA FOR INFILTRATION AND POLLUTANT REMOVAL. BIORETENTION TECHNIQUES ARE USED TO ACCOMPLISH WATER QUALITY IMPROVEMENT AND WATER QUANTITY REDUCTION.

INFILTRATION BASINS ARE SHALLOW, IMPOUNDED AREAS DESIGNED TO TEMPORARILY STORE AND INFILTRATE STORMWATER RUNOFF. THE SIZE AND SHAPE CAN VARY FROM ONE LARGE BASIN TO MULTIPLE, SMALLER BASINS THROUGHOUT A SITE. IDEALLY, THE BASIN SHOULD AVOID DISTURBANCE OF EXISTING VEGETATION. IF DISTURBANCE IS UNAVOIDABLE, REPLANTING AND LANDSCAPING MAY BE NECESSARY AND SHOULD INTEGRATE THE EXISTING LANDSCAPE AS SUBTLY AS POSSIBLE AND COMPACTION OF THE SOIL MUST BE PREVENTED. INFILTRATION BASINS USE THE EXISTING SOIL MANTLE TO REDUCE THE VOLUME OF STORMWATER RUNOFF BY INFILTRATION AND EVAPOTRANSPIRATION. THE QUALITY OF THE RUNOFF IS ALSO IMPROVED BY THE NATURAL CLEANSING PROCESSES OF THE EXISTING SOIL MANTLE AND ALSO BY THE VEGETATION PLANTED IN THE BASINS.

**CONSTRUCTION SEQUENCE**

- PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION.
- IF POSSIBLE, INSTALL INFILTRATION BASIN DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES.
- INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- IF NECESSARY, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE.
- INSTALL OUTLET CONTROL STRUCTURES.
- SEED AND STABILIZE TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS.)
- DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

**MAINTENANCE ISSUES**

PROPERLY DESIGNED AND INSTALLED RETENTION AREAS REQUIRE SOME REGULAR MAINTENANCE:

MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH):

- INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION)
- INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED
- MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER RETENTION BASIN OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN RETENTION BASIN IS DRY TO AVOID RUTTING
- INSPECT FOR LITTER; REMOVE PRIOR TO MOWING
- INSPECT RETENTION BASIN INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED

**MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:**

- RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG 575 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT WAS NOT SUCCESSFUL.
- RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING.
- ROTOILL AND REPLANT INFILTRATION BASIN/BIORETENTION IF DRAW DOWN TIME IS MORE THAN 72 HOURS.
- WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY.
- THE PERMITTEE OR CO-OP PERMITTEE SHALL BE RESPONSIBLE FOR PUMPING THE BASIN IN THE EVENT OF AN EMERGENCY OR AS NEEDED FOR ROUTING MAINTENANCE.

**POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) STANDARD NOTES**

**PCSM REQUIREMENTS**

A LICENSED PROFESSIONAL OR A DESIGNEE SHALL BE PRESENT ONSITE AND BE RESPONSIBLE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN. THE CRITICAL STAGES MAY INCLUDE THE INSTALLATION OF UNDERGROUND TREATMENT OR STORAGE BMPs, STRUCTURALLY ENGINEERED BMPs, OR OTHER BMPs AS DEEMED APPROPRIATE BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

THE PCSM PLAN, INSPECTION REPORTS, AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

**PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS**

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs LOCATED ON THE PROPERTY.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR PUMPING THE BASIN IN THE EVENT OF AN EMERGENCY OR AS NEEDED FOR ROUTING MAINTENANCE.

**PERMIT TERMINATION**

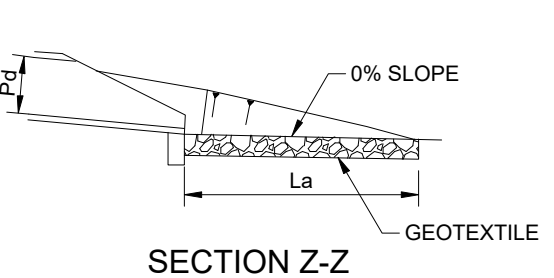
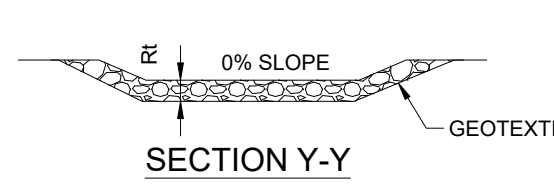
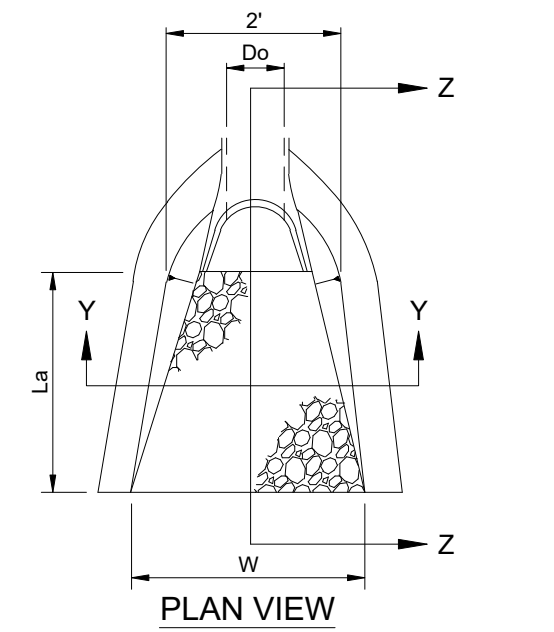
UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY AND INSTALLATION OF BMPs IN ACCORDANCE WITH AN APPROVED PLAN, THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

- THE FACILITY NAME, ADDRESS AND LOCATION
- THE OPERATOR NAME AND ADDRESS
- THE NPDES PERMIT NUMBER
- THE REASON FOR PERMIT TERMINATION
- IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM
- COPY OF LEGAL INSTRUMENT: FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPs AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION.
- FINAL CERTIFICATION: THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:

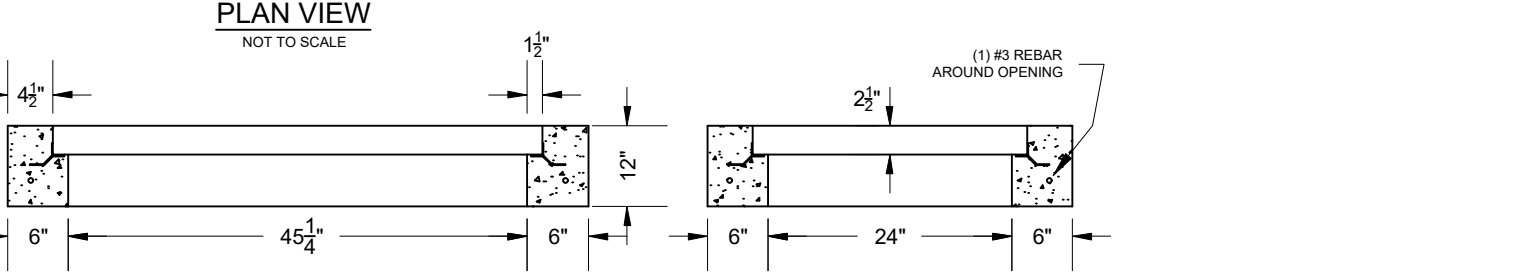
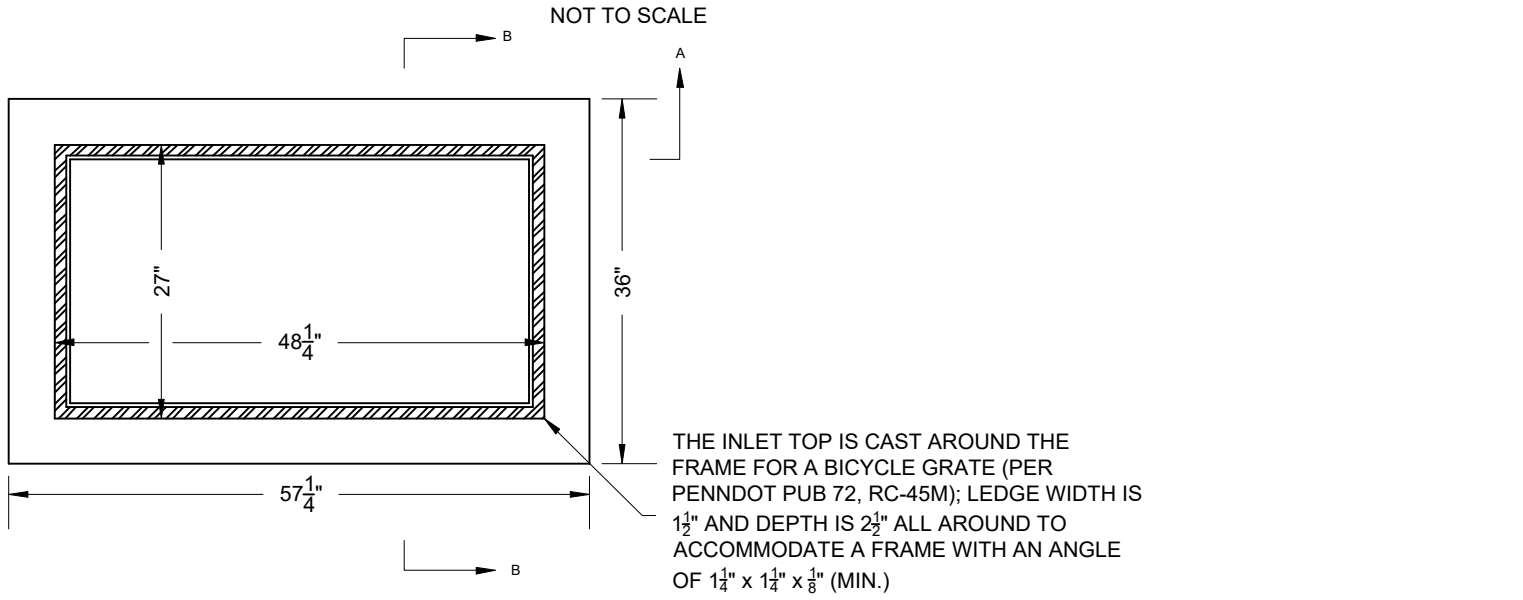
"I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA. C.S.A. §4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

- THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
- THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

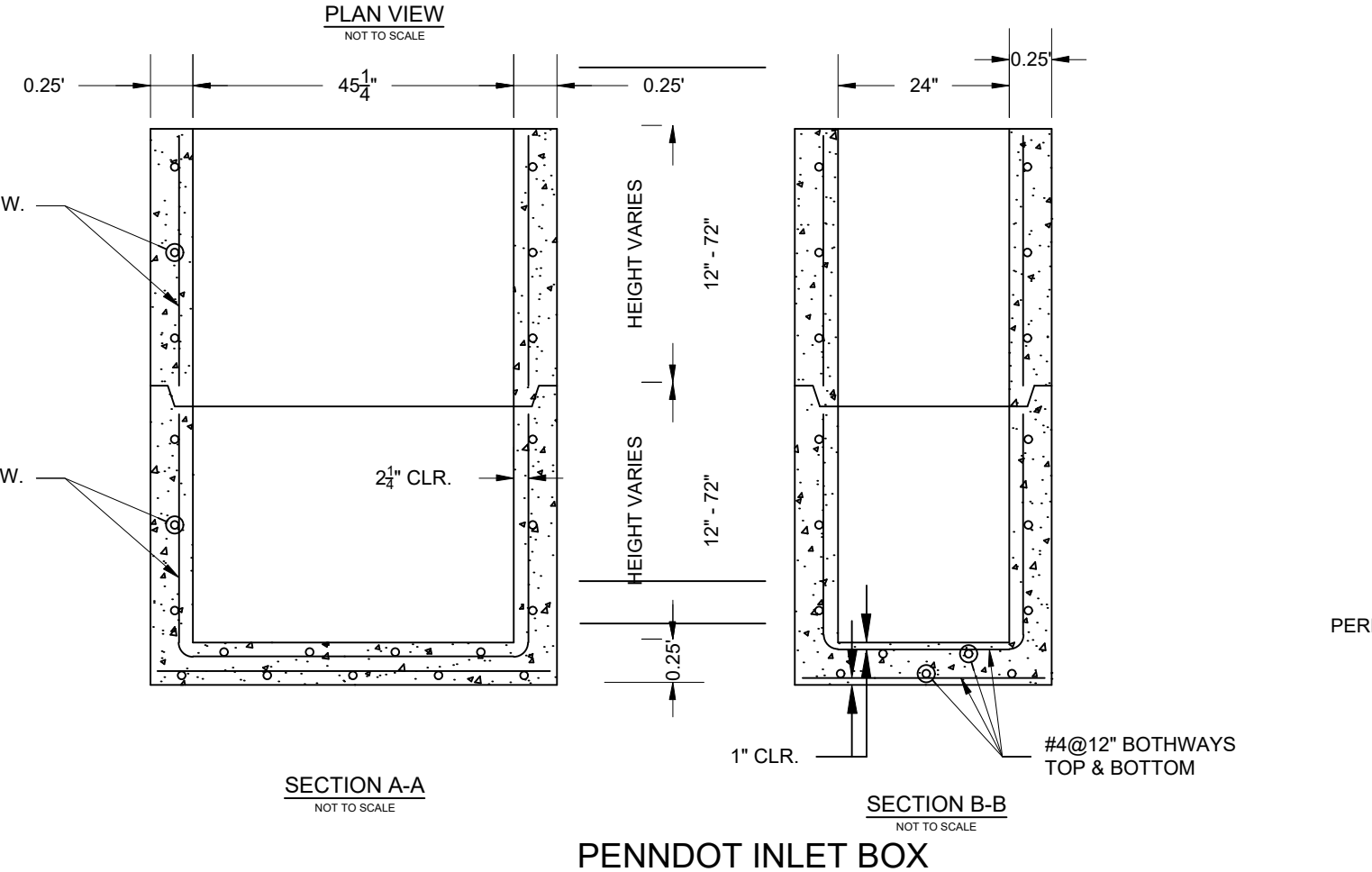
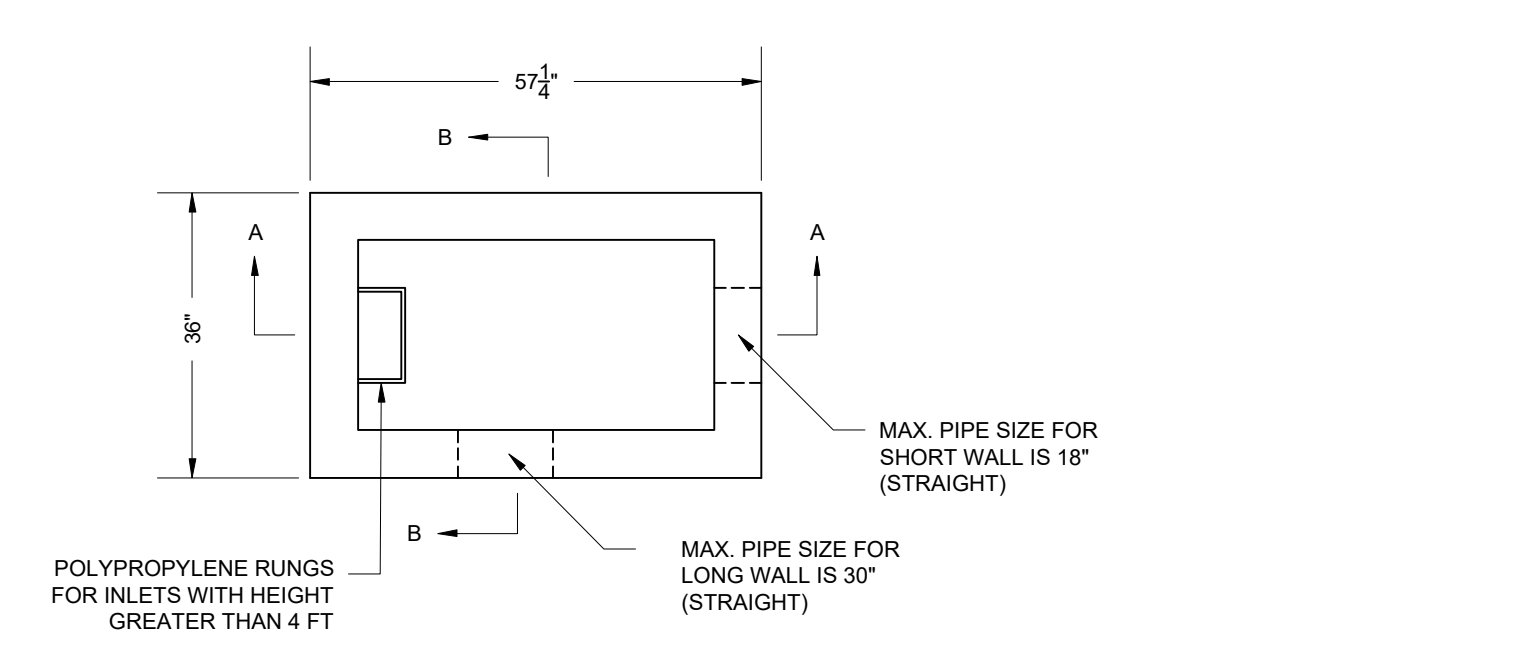


OUTLET NO.	PIPE DIA., D <sub>o</sub> (in)	TAILWATER CONDITION	"n"	Slope (ft/ft)	L <sub>a</sub> (ft)	A <sub>iw</sub> (ft)	A <sub>tw</sub> (ft)	Q (cfs)	V (fps)	RIPRAP P (R-?)	DEPTH (ft)
FES-6	12	Min	0.012	0.59	6	3	9	1.93	3.88	3	1

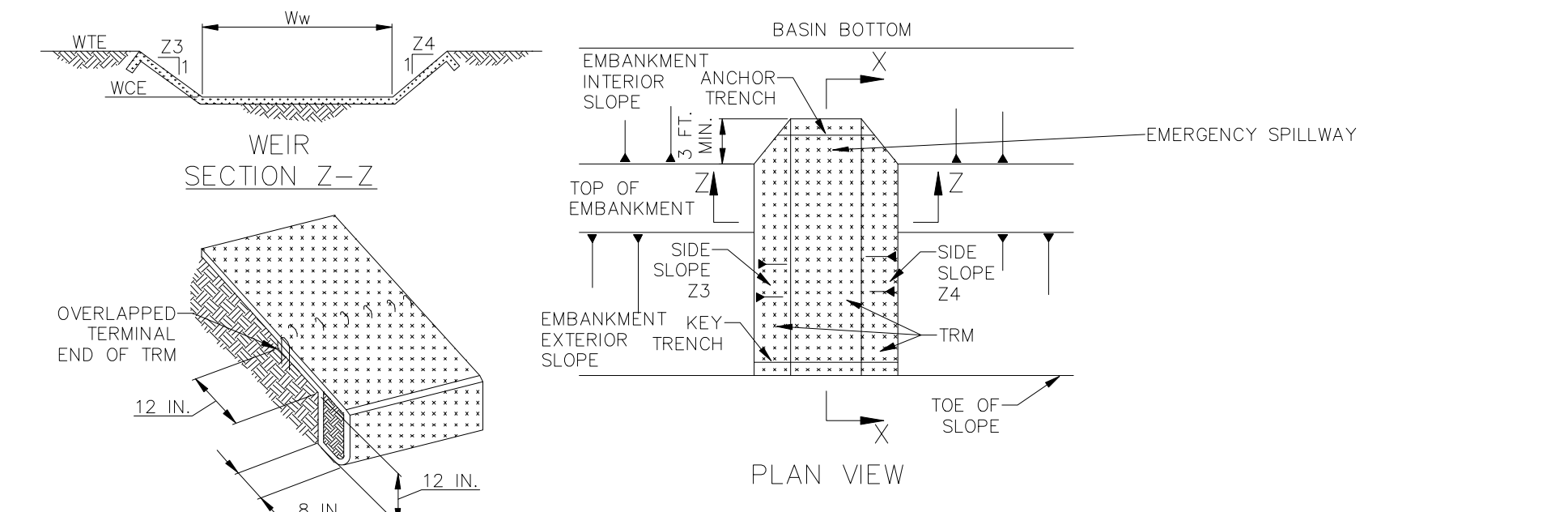
**STANDARD CONSTRUCTION DETAIL #9-1**  
RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL  
NOT TO SCALE



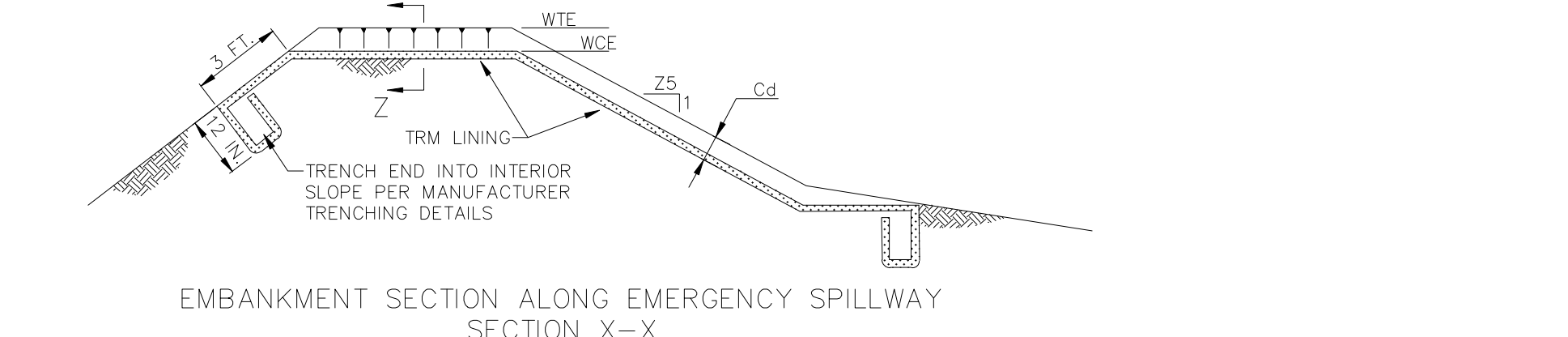
- ALL CATCH BASINS SHALL BE PROVIDED IN ACCORDANCE WITH PENNDOT PUB 72, RC-45M.
- ALL CATCH BASINS SHALL BE PROVIDED WITH MARKERS IN ACCORDANCE WITH CHAPTER 21, EXHIBIT "L."



**PENNDOT INLET BOX**  
NOT TO SCALE



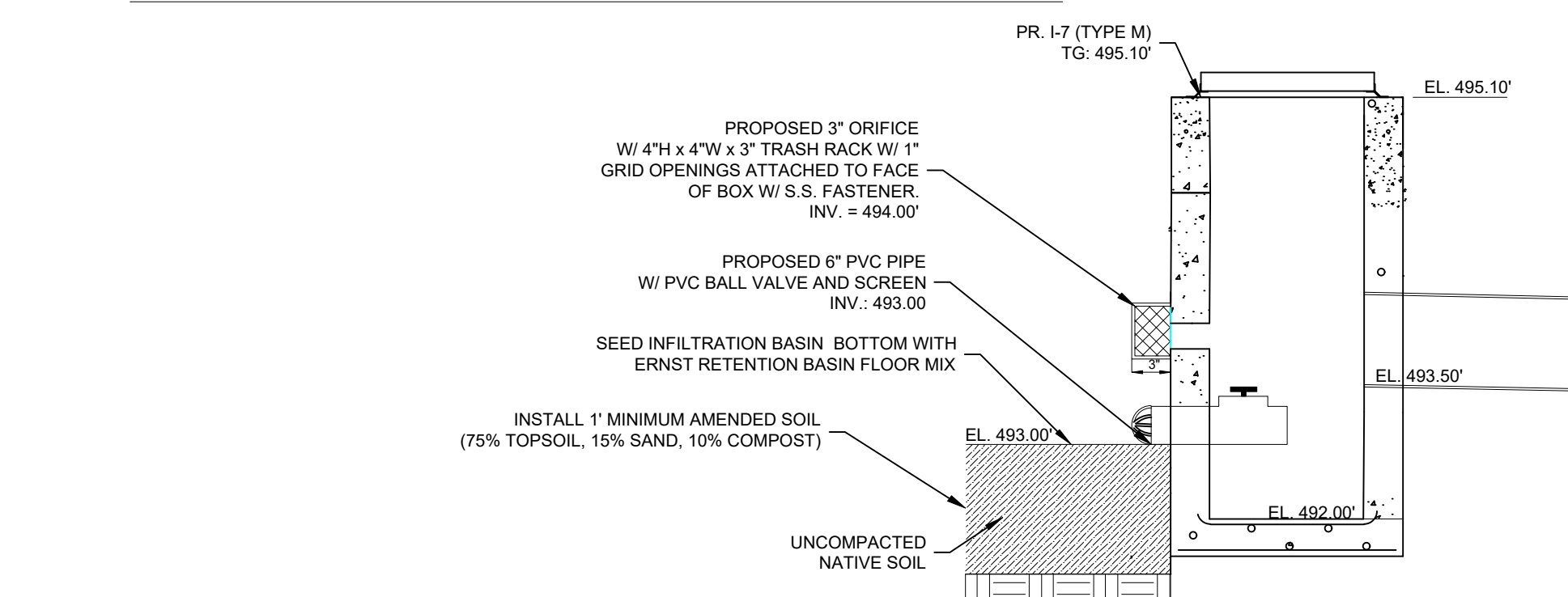
**KEY TRENCH AT TOE OF SLOPE OF SPILLWAY**  
NOT TO SCALE



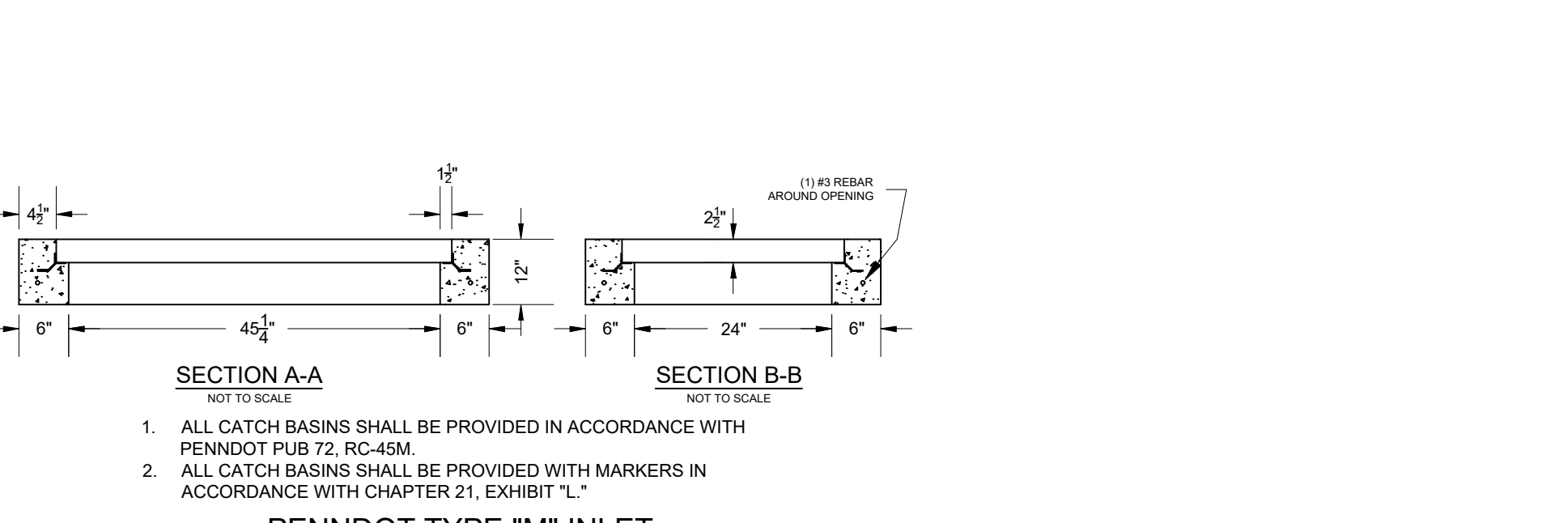
BASIN NO.	Q100 (CFS)	Z3 (FT)	Z4 (FT)	Z5 (FT)	C	WIDTH Ww (FT)	FLOW HEIGHT (FT)	CREST ELEV WCE	TOP ELEV WTE	TRM TYPE	STAPLE PATTERN	FREEBOARD
1	9.51	3	3	3	3.00	16	0.35	495.15	496.50	SC250	E	1.00

NOTES:  
HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.  
DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

**EMERGENCY SPILLWAY WITH TRM LINING**

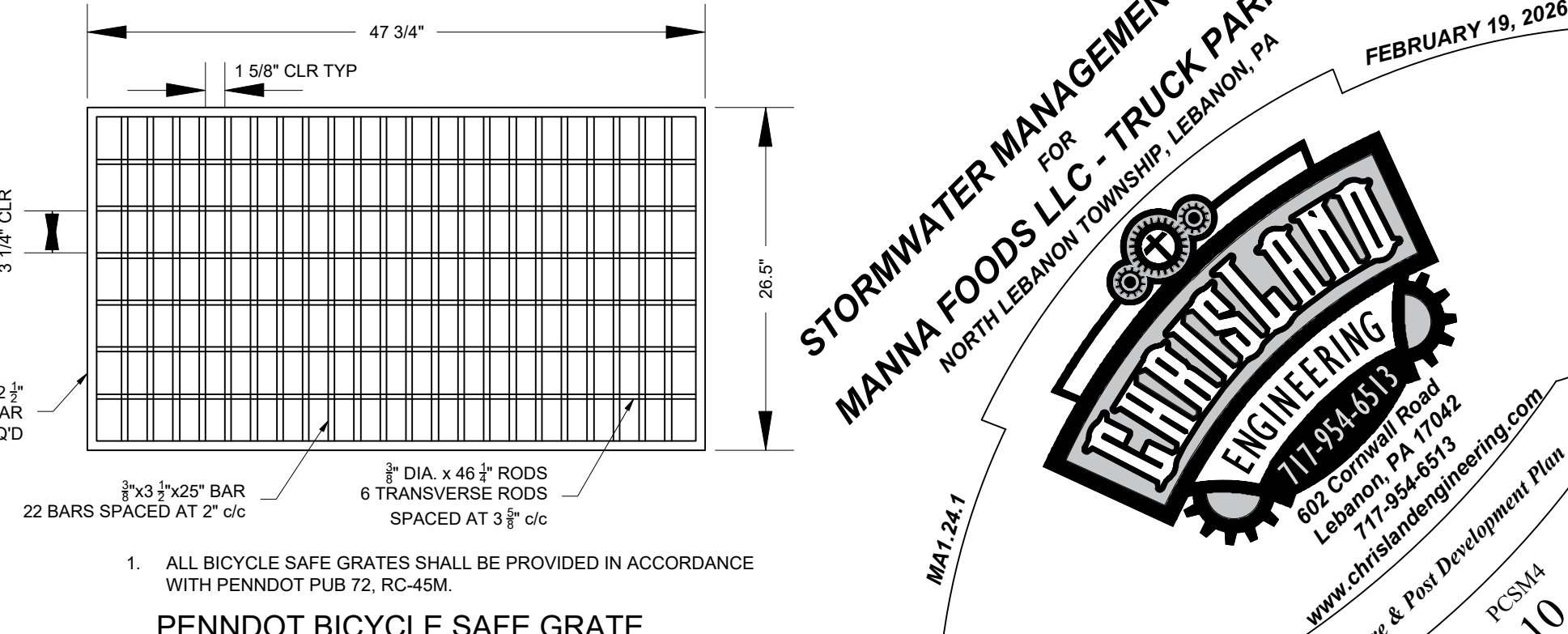


**BASIN 1 OUTLET DETAIL**  
NOT TO SCALE



**PENNDOT TYPE "M" INLET**  
NOT TO SCALE

- ALL CATCH BASINS SHALL BE PROVIDED IN ACCORDANCE WITH PENNDOT PUB 72, RC-45M.
- ALL CATCH BASINS SHALL BE PROVIDED WITH MARKERS IN ACCORDANCE WITH CHAPTER 21, EXHIBIT "L."



**PENNDOT BICYCLE SAFE GRATE**  
NOT TO SCALE

**STORMWATER MANAGEMENT PLAN**  
FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
NORTH LEBANON TOWNSHIP, LEBANON, PA

FEBRUARY 19, 2026

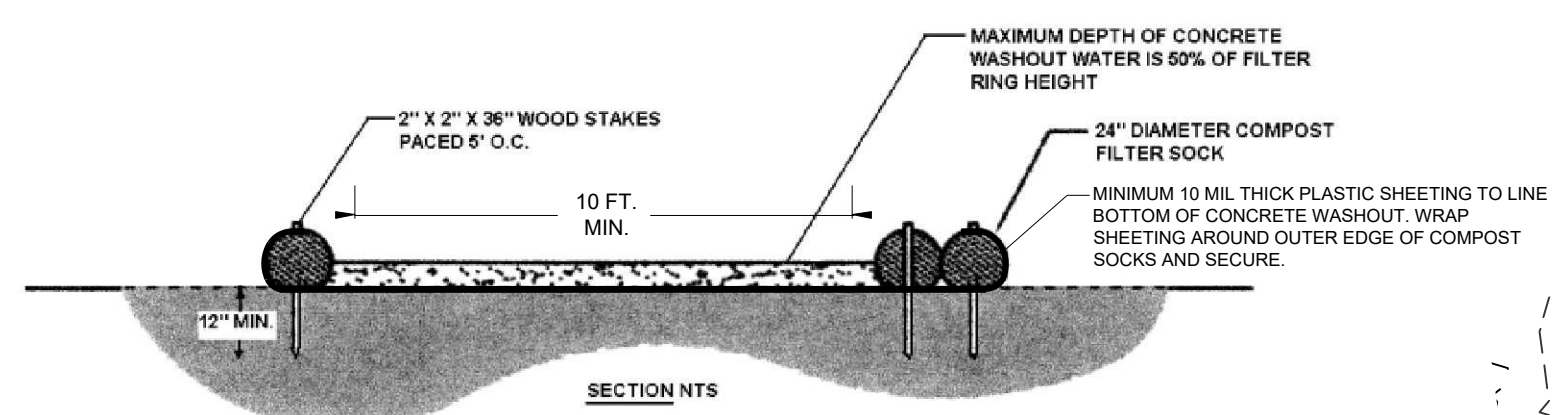
**MANNA ENGINEERING**  
17-934-8513  
800 Cornwall Road  
Lebanon, PA 17042  
www.mannaengineering.com

Pre- & Post Development Plan

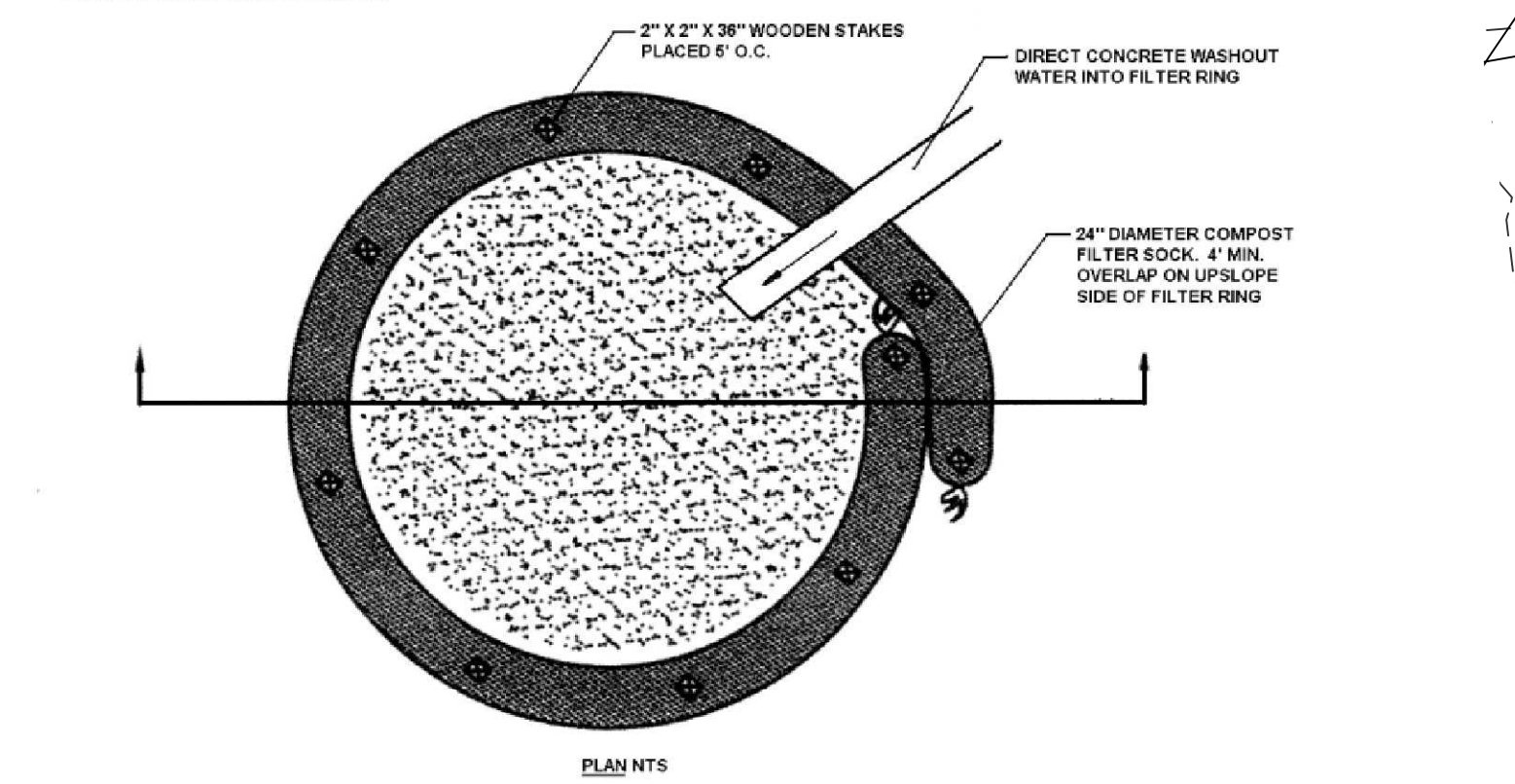
PCSM 4  
10  
OF 13

M:\Project Files\MAT1 - Manna Foods\MAT1\_24\_1 - Truck Parking SWM Plan\DWG\SWM Plan - Manna Parking.dwg 2/19/2026 1:08 PM

DATE: BL: REVISION:

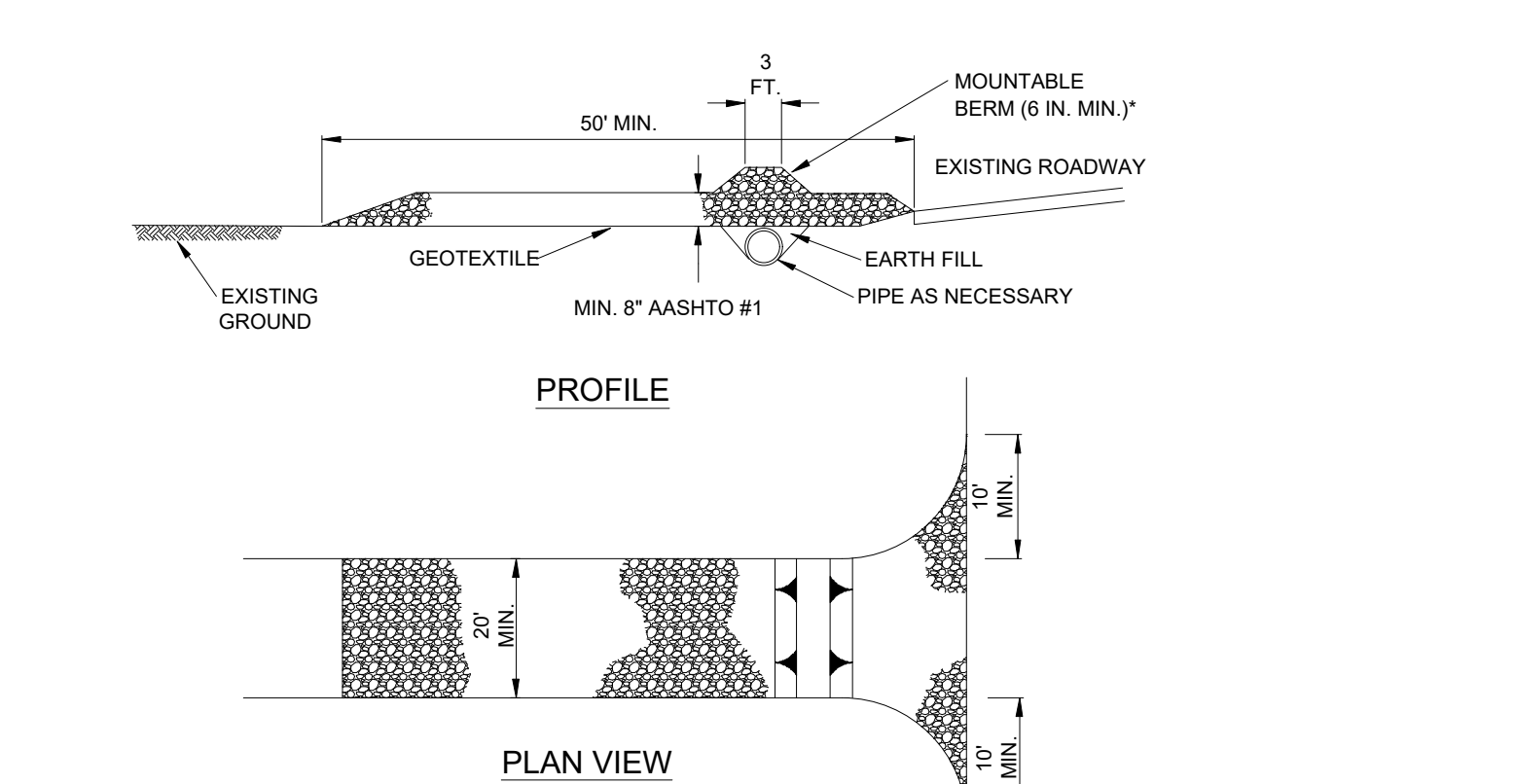


NOTES:  
 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE  
 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



NOTE:  
 1. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.  
 2. PROVIDE 10" MINIMUM INSIDE DIAMETER.  
 3. PROVIDE AT LEAST ONE WASHOUT PER GROUPING OF TOWNHOUSES AND EACH APARTMENT BUILDING.

TYPICAL COMPOST SOCK WASHOUT INSTALLATION  
 NOT TO SCALE



\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

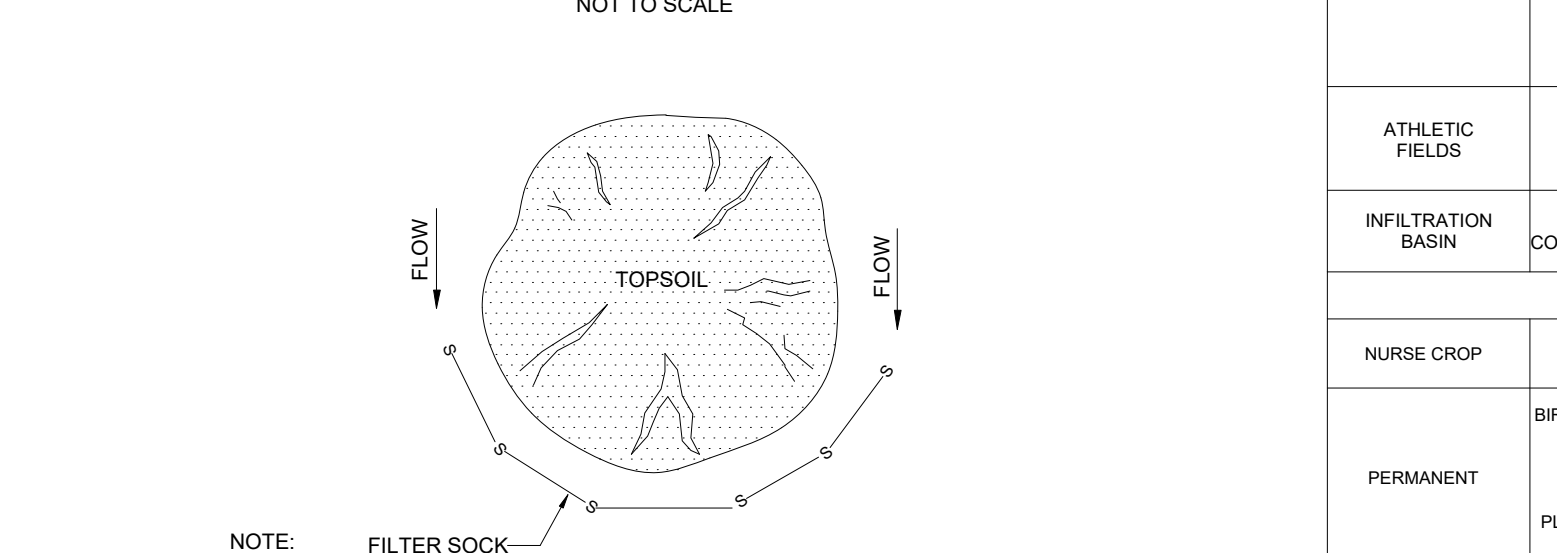
NOTES:  
 REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1  
 ROCK CONSTRUCTION ENTRANCE  
 NOT TO SCALE



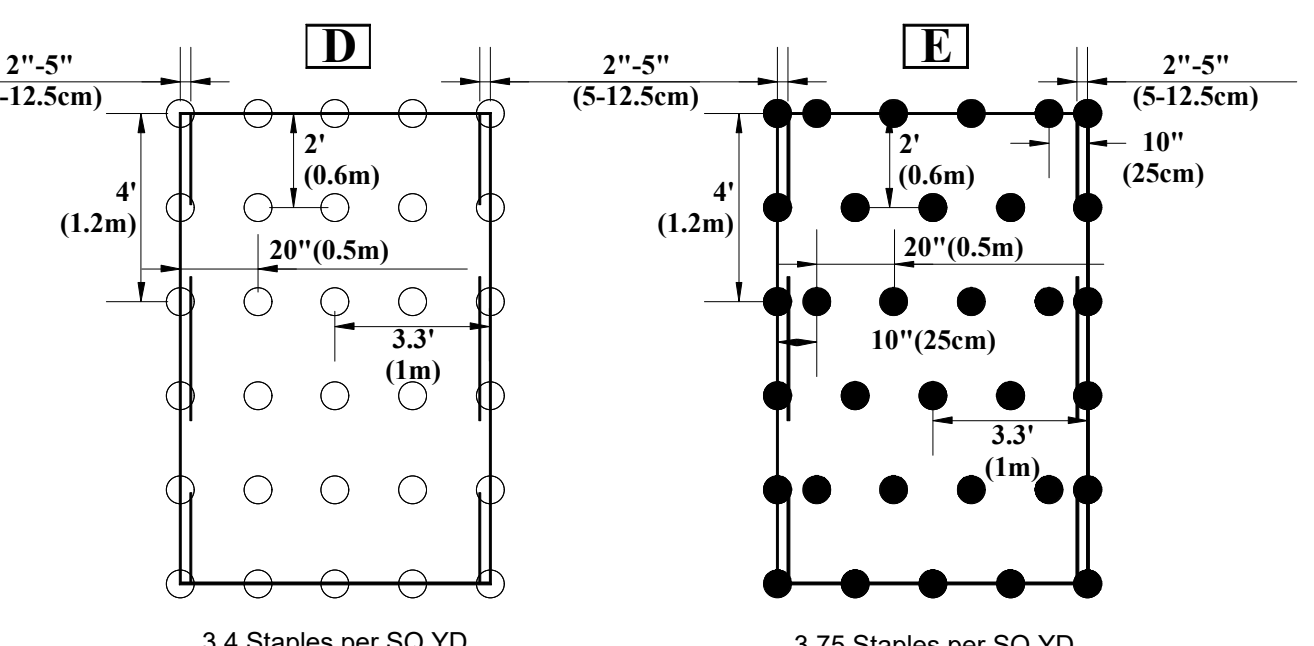
NOTE:  
 1) A STOCKPILE SHALL BE USED TO CONTAIN ALL STRIPPED TOPSOIL IN A LIMITED AREA IN ORDER TO KEEP DISTURBANCE TO A MINIMUM.  
 2) STOCKPILE AREAS TO BE STABILIZED IMMEDIATELY.  
 3) STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.  
 4) STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.  
 5) STOCKPILE SHALL BE LOCATED SO THAT ALL SWALES CAN FUNCTION AS DESIGNED.

TOPSOIL STOCKPILE  
 NO SCALE



EROSION & SEDIMENT POLLUTION CONTROL PLAN  
 1"=40'

GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 40ft.

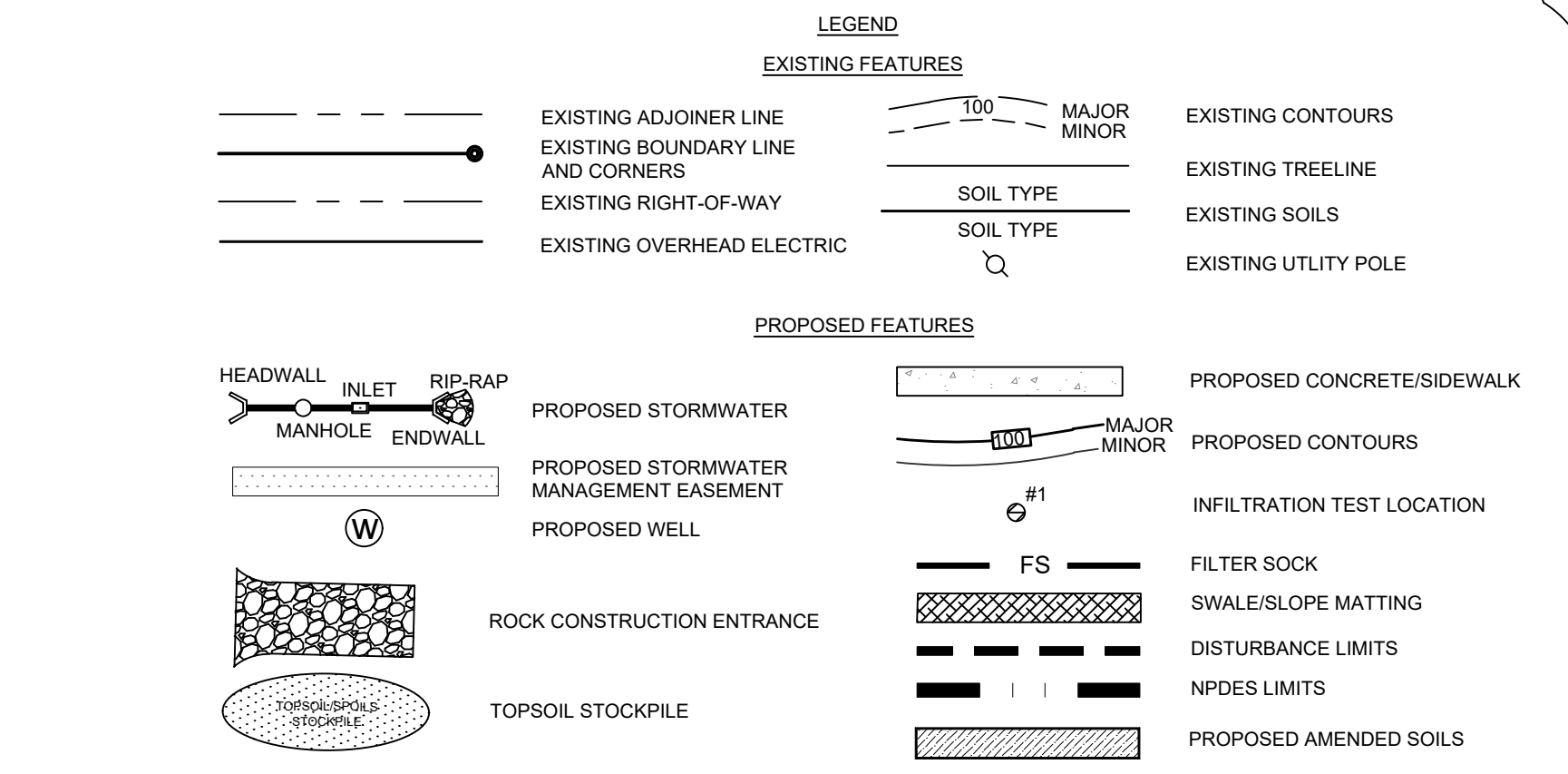


STAPLE PATTERN FOR TRM LINING  
 NOT TO SCALE

APPLICATION	SPECIES	APPLICATION RATE 1 (P.L.S. IN LBS/ACRE)	FERTILIZER (LBS/ACRE)	LIMING RATE 2 (TONS/ACRE)	FINAL SEEDING DATE
TEMPORARY	ANNUAL RYE	174	50-50-50 N-P-K	1 AG GRADE	OCTOBER 30
PERMANENT	FINE FESCUES	60	100-200-200 N-P-K	6 AG GRADE	AUGUST 30
	KENTUCKY BLUEGRASS	90			OCTOBER 30
ATHLETIC FIELDS	KENTUCKY BLUEGRASS	150	100-200-200 N-P-K	6 AG GRADE	AUGUST 30
	PERENNIAL RYEGRASS	25			OCTOBER 30
INFILTRATION BASIN	F.M. BROWN CONSERVE WETLAND	20	100-200-200 N-P-K	6 AG GRADE	AUGUST 30 AND OCTOBER 30
NURSE CROP	ANNUAL RYE	64	50-50-50 N-P-K	1 TON/AC AG GRADE	OCT. 15
	BIRDSFOOT TREFOL PLUS	10	100-200-200 N-P-K	1 TON/AC AG GRADE*	MARCH 15 AND OCT. 15
PERMANENT	PLUS TALL FESCUE	30			

1. PLS IS PURE LIVE SEED. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO SECURE THE ACTUAL PLANTING RATE, DIVIDE THE POUNDS PLS BY THE PLS PERCENTAGE SHOWN ON THE SEED TAG OR AS PREVIOUSLY DISCUSSED. THUS, IF THE PLS CONTENT OF FINE FESCUES IS 50%, DIVIDE 7 PLS BY 0.50 TO OBTAIN 140 POUNDS OF SEED PER ACRE.  
 2. LIMING RATE SHALL BE IN ACCORDANCE WITH SOIL TEST RESULTS. APPLY 6 TONS OF AGRICULTURAL GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS.  
 \* ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW APPLIED AT A RATE OF 3 TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC.  
 - ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

SEEDING AND FERTILIZER SPECIFICATIONS  
 NOT TO SCALE



STANDARD E&S PLAN NOTES

1. ALL EARTH DISTURBANCES INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE LEBANON COUNTY ENGINEER, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ. 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
15. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALKS SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELLED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
17. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
18. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 6 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTLINES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
19. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
21. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
22. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
23. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS. SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
33. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
34. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
35. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 9" LAYERED LIFTS AT 95% DENSITY.

STORMWATER MANAGEMENT PLAN  
 FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
 NORTH LEBANON TOWNSHIP, LEBANON, PA  
 FEBRUARY 19, 2026

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EROSION AND SEDIMENT POLLUTION CONTROL NARRATIVE  
STORMWATER MANAGEMENT PLAN FOR MANNA FOODS, LLC - TRUCK PARKING  
NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PA

**A. SITE LOCATION**

THE SITE IS LOCATED AT 430 N. 11TH AVENUE IN NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PA 17046 (SEE USGS MAP).

**B. PROJECT DESCRIPTION**

THE PURPOSE OF THIS PLAN IS TO PROPOSE A TRUCK OVERFLOW PARKING AREA AND ASSOCIATED STORMWATER MANAGEMENT FACILITIES (SEE SITE PLAN). THE DISTURBANCE AREA FOR THIS PROJECT IS APPROXIMATELY 2.12 ACRES.

**C. EXISTING SITE CONDITIONS & DOWNSTREAM DRAINAGE PATH**

THE 3.40 AC PROPERTY IS CURRENTLY BEING USED FOR INDUSTRIAL MANUFACTURING AND THE 6.25 AC PROPERTY IS CURRENTLY BEING USED FOR AGRICULTURAL ROW CROPS. THE SUBJECT PROPERTIES HAVE BEEN IN SAID CONDITION SINCE BEFORE 1970 ACCORDING TO RESEARCH DONE ON PENN PILOTS. THE SITE SLOPES SOUTHEAST, THE HIGHEST ELEVATIONS ARE ON THE NORTH SIDE OF THE NORTHERN PARCEL. ONCE LEAVING THE PROPERTY, RUNOFF IS INTERCEPTED BY THE UNIT OF QUITTAPAHILLA CREEK IN THE QUITTAPAHILLA CREEK WATERSHED. THE CHAPTER 93 DESIGNATION FOR QUITTAPAHILLA CREEK IS TROUT STOCKING (TSF).

ASSESSED USE: TROUT STOCKING  
ATTAIN USE: IMPAIRED  
IMPAIRMENT SOURCE: HABITATS ALTERATIONS  
IMPAIRMENT CAUSE: STREAMBANK MODIFICATIONS/DESTABILIZATION

ASSESSED USE: TROUT STOCKING  
ATTAIN USE: IMPAIRED  
IMPAIRMENT SOURCE: FLOW REGIME MODIFICATION  
IMPAIRMENT CAUSE: URBAN RUNOFF/STORM SEWERS

ASSESSED USE: WATER CONTACT SPORTS  
ATTAIN USE: IMPAIRED  
IMPAIRMENT SOURCE: SOURCE UNKNOWN  
IMPAIRMENT CAUSE: PATHOGENS

TMDL NAME: QUITTAPAHILLA CREEK WATERSHED  
CAUSE: NUTRIENTS, ORGANIC ENRICHMENT, SILTATION, TOTAL SUSPENDED SOLIDS (TSS)  
D. SOIL LIMITATIONS AND RESOLUTIONS

THE FOLLOWING SOILS ARE FOUND WITHIN OR ADJACENT TO THE AREA DISTURBED BY EARTH MOVING ACTIVITIES.

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
CkA	Clarksburg Silt Loam	5.8	C	62.8	0'-84"	N
CkB	Clarksburg Silt Loam	3.5	C	37.2	0'-84"	N

MANY SOIL LIMITATIONS EXIST FOR THE PROPOSED PROJECT. THE WEB SOIL SURVEY INDICATES LAWNS AND LANDSCAPING ESTABLISHMENT LIMITATIONS CLASSIFIED AS SOMEWHAT LIMITED FOR DUE TO DUSTINESS AND DEPTH TO SATURATED ZONE. THIS POTENTIAL LIMITATION SHOULD NOT BE A PROBLEM SINCE THE PROJECT SITE CURRENTLY EXISTS AS BOTH FARMLAND AND INDUSTRIAL BUILDING COVER. IN ADDITION, THE SITE WILL BE STABILIZED WITH STONE COVER AND GRASS COVER OVER NEWLY GRADED TOPSOIL.

THE WEB SOIL SURVEY INDICATED DWELLINGS WITH BASEMENTS LIMITATIONS CLASSIFIED AS VERY LIMITED DUE TO DEPTH TO SATURATED ZONE AND SHRINK-SWELL POTENTIAL. THE SURVEY ALSO INDICATED THAT DWELLINGS WITHOUT BASEMENTS LIMITATIONS CLASSIFIED AS SOMEWHAT LIMITED DUE TO DEPTH TO THIN CEMENTED PAN, SHRINK-SWELL POTENTIAL, DEPTH TO THICK CEMENTED PAN, AND DEPTH TO SATURATED ZONE. THIS LIMITATION IS NOT EXPECTED TO BE AN ISSUE SINCE BUILDING COVER IS NOT PROPOSED AS PART OF THIS PROJECT.

THE SOIL RUTTING HAZARD LIMITATION CLASSIFIED AS SEVERE DUE TO LOW STRENGTH. STANDARD CONSTRUCTION PRACTICES WILL BE UTILIZED TO AVOID EXCESSIVE RUTTING AND EROSION ASSOCIATED WITH RUTTING WILL BE CONTROLLED WITH STANDARD EROSION AND SEDIMENT POLLUTION CONTROLS.

**E. CALCULATIONS**

TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES WERE DESIGNED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED IN THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL (PA DEP BUREAU OF SOIL AND WATER CONSERVATION, MARCH 2012).

RUNOFF CALCULATIONS WERE PERFORMED USING THE RATIONAL METHOD IN ACCORDANCE WITH PA DEP NORTH LEBANON TOWNSHIP AND LEBANON COUNTY REGULATIONS. THE PROPOSED CONDITION PEAK RATES OF RUNOFF AND RUNOFF VOLUMES WILL REMAIN CONSISTENT WITH EXISTING CONDITIONS. THE VEGETATIVE COVER WILL BE RESTORED TO EXISTING CONDITIONS TO MITIGATE ANY POTENTIAL INCREASE IN PEAK RATES OF RUNOFF AND RUNOFF VOLUMES.

**F. STAGING OF EARTHMOVING**

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THE SEQUENCE MUST BE APPROVED BY THE LEBANON COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.

CONSTRUCTION OF THE SITE IMPROVEMENTS IS EXPECTED TO BEGIN SPRING OF 2026. CONSTRUCTION WILL PROCEED IN A TIMELY MANNER IN ORDER TO LIMIT THE POTENTIAL FOR ACCELERATED EROSION AND SEDIMENTATION. IF THE CONTROLS SHOWN ON THE PLAN ARE INCAPABLE OF ADDRESSING THE EROSION AND SEDIMENT CONTROL PROBLEMS ON THE LOT, THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ADAPTING ADEQUATE ALTERNATIVE MEASURES.

THE CONSTRUCTION SEQUENCE FOR DEVELOPMENT OF THE PROJECT SHALL BE AS FOLLOWS:

- FOR ANY PROPERTY CONTAINING A POST-CONSTRUCTION STORMWATER CONTROL MEASURE (SCM), THE PERMITTED OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ENSURE DISCLOSURE OF THE SCM AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY.

THE RECORDED INSTRUMENT MUST IDENTIFY THE SCM(S), PROVIDE FOR NECESSARY ACCESS RELATED TO THE LONG-TERM OPERATION AND MAINTENANCE OF SCM(S) AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE SCM(S) IS A COVENANT THAT RUNS THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE(S), AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER §102.7(B)(5) (RELATING TO PERMIT TERMINATION).

INSTRUMENT RECORDINGS ARE REQUIRED ON ALL LOTS WHERE ONE OR MORE SCMS WILL BE LOCATED AND SUBJECT TO LONG-TERM OPERATION AND MAINTENANCE. INSTRUMENT RECORDINGS ARE REQUIRED TO BE SUBMITTED TO THE LEBANON COUNTY CONSERVATION DISTRICT WITHIN 45 DAYS OF NPDES PERMIT AUTHORIZATION OR PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING.

- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, AND A REPRESENTATIVE FROM THE LEBANON COUNTY CONSERVATION DISTRICT (717-277-5275) TO AN ON-SITE PRECONSTRUCTION MEETING. THE LIMITS OF DISTURBANCE SHALL BE FIELD MARKED ON THE PROJECT SITE USING PAINT OR FLAGGING.

ALSO, AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

- STAKE OUT LIMITS OF PROPOSED EARTH DISTURBANCE PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES TAKING PLACE.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE(S). THE BASE COURSE SHALL BE AASHTO #1 INSTALLED AT A MINIMUM OF 20-FT WIDE AND 90-FT LONG.

- INSTALL FILTER SOCK AT TOPSOIL STOCKPILE AND OTHER AREAS AS INDICATED ON THE ATTACHED PLAN. FILTER SOCK IS TO BE INSTALLED ALONG THE CONTOUR AT A LEVEL GRADE.

UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPs, AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.

- CLEAR, GRUB, AND STRIP AREAS AS NECESSARY TO CONSTRUCT IMPROVEMENTS. EXCESS TOPSOIL SHALL BE PLACED ON THE 'TOPSOIL/SPILL STOCKPILE' SHOWN HEREON. IMMEDIATELY STABILIZE TOPSOIL STOCKPILE.
- ROUGH GRADE SITE FOR INSTALLATION OF THE TRUCK OVERFLOW PARKING AREA AND THE STORMWATER MANAGEMENT FACILITIES.

TAKE CARE TO AVOID UNNECESSARY COMPACTION OF THE INFILTRATION FACILITY BOTTOMS. EXCAVATION SHALL TAKE PLACE FROM OUTSIDE THE LIMITS OF THE INFILTRATION FACILITIES. IF COMPACTION OCCURS, THE INFILTRATION FACILITY BOTTOMS SHALL BE SCARIFIED TO LOOSEN THE SOILS PRIOR TO PLACEMENT OF THE AMENDED SOILS.

- CONSTRUCT INFILTRATION BASIN/SEDIMENT TRAP, AND INSTALL BASIN BERM, OUTLET PIPE, OUTLET STRUCTURE, TEMPORARY RISER, CLEANOUT STAKE, RIPRAP OUTLET PROTECTION, AND FILTER SOCK CHECK DAMS.
- INSTALL SWALES A AND B, AND EROSION MATTING AS DEPICTED ON THE PLANS.

- BACKFILL AND BRING SITE TO NECESSARY GRADE FOR INSTALLATION OF THE TRUCK OVERFLOW PARKING AREA. PLACE STONE BASE FOR PARKING AREA AS SOON AS PRACTICABLE. INSTALL STORM SEWER AND PAVE THE PROPOSED PARKING AREA WITH BASE COURSE.

- INSTALL STORM SEWER AND PAVE THE PROPOSED TRUCK OVERFLOW PARKING AREA WITH BASE COURSE.

- INSTALL INLET PROTECTION AND PUMPED WATER FILTER BAGS AT CONCRETE INLETS AS SOON AS PRACTICABLE TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE INFILTRATION FACILITY.

- FINE GRADE ANY REMAINING AREAS AS SHOWN ON THE GRADING PLAN. SPREAD 6-IN OF TOPSOIL ON FRESHLY GRADED AREAS. FINAL PASSES DURING FINE GRADING SHALL BE MADE AT RIGHT ANGLES TO THE SLOPES. PREPARE THE REMAINDER OF THE DISTURBED AREA FOR PERMANENT STABILIZATION. SEEDED SHALL BE PREPARED IN ACCORDANCE WITH ACCEPTED PRACTICES. SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RATES AND INSTRUCTIONS.

- INSTALL SLOPE MATTING AS INDICATED ON THE PLAN. SEEDED SHALL BE PREPARED IN ACCORDANCE WITH ACCEPTED PRACTICES. SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RATES AND INSTRUCTION.

- INSTALL TREES, SHRUBS AND LANDSCAPING AREAS AS DEPICTED ON THE PLANS.

- CONVERT SEDIMENT TRAP TO FINAL CONFIGURATION. REMOVE BUILT UP SEDIMENT FROM THE BASIN BOTTOM. REMOVE TEMPORARY RISER, REMOVE TEMPORARY SEALS FROM BASIN OUTLET ORIFICES, INSTALL AMENDED SOILS, INSTALL UNDERDRAIN, FINE GRADE, AND INSTALL BASIN BOTTOM SEEDING.

- SEE ALL REMAINING DISTURBED AREAS AND SEEDED AREAS. MULCH WITH HAY OR STRAW AT A MINIMUM RATE OF THREE (3) TONS PER ACRE (OR MULCH AS A PART OF HYDROSEEDING).

- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS). ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING.

- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE.

- UPON COMPLETION OF PROPOSED IMPROVEMENTS, STABILIZATION OF THE SITE, AND FOLLOWING NECESSARY INSPECTION ACTIVITIES, THE DEVELOPER SHALL SUBMIT A NOTICE OF TERMINATION TO THE LEBANON COUNTY CONSERVATION DISTRICT.

**G. TEMPORARY CONTROL MEASURES**

**1. TOPSOIL STOCKPILE**

- A STOCKPILE SHALL BE USED TO CONTAIN ALL STRIPPED TOPSOIL IN A LIMITED AREA IN ORDER TO KEEP DISTURBANCE TO A MINIMUM.
- STOCKPILES SHALL BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION CONTAINED HEREON.
- STOCKPILES SHALL BE LOCATED SO THAT ALL SWALES CAN FUNCTION AS DESIGNED.
- STOCKPILE HEIGHTS MUST NOT EXCEED 35' IN HEIGHT. SIDE SLOPES SHALL BE 2:1 OR FLATTER.

**2. FILTER SOCK**

- FILTER SOCK SHALL BE USED TO INTERCEPT SEDIMENT-LADEN RUNOFF FROM SMALL WATERSHEDS.
- FILTER SOCK MUST BE INSTALLED AT LEVEL GRADE.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF SOCK.

**3. INTERIM STABILIZATION**

- TEMPORARY SEEDING AND MULCHING SHALL BE APPLIED WHERE INDICATED TO PROVIDE INTERIM STABILIZATION TO EXPOSED AREAS.
- TEMPORARY SEEDING/MULCHING SHALL BE AS APPLIED AS SPECIFIED ON THE SEEDING SCHEDULE CONTAINED ON THE E&S PLAN.
- ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS THAT ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE (1) YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION CONTAINED HEREON. DISTURBED AREAS THAT ARE AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS CONTAINED HEREON.

**4. ROCK CONSTRUCTION ENTRANCE**

- A STABILIZED PAD OF CRUSHED STONE (AASHTO #1) SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND LEAVING THE SITE. THE ROCK CONSTRUCTION ENTRANCE IS USED TO ELIMINATE THE TRACKING OF FLOWING OF SEDIMENT ONTO THE EXISTING CARTWAY.
- PUBLIC STREET SWEEPING WITH A VACUUM SWEEPER AND ROLLING OF DIRT AND GRAVEL ROADS SHALL BE COMPLETED AT THE END OF EACH WORKDAY (OR MORE FREQUENTLY AS NEEDED).
- INSPECT AREA TO BE SWEEP FOR MATERIALS THAT MAY BE HAZARDOUS PRIOR TO BEGINNING SWEEPING OPERATIONS.
- MANUAL CLEANING OF TIRES WITH A BROOM SHALL BE COMPLETED PRIOR TO SITE EGRESS.

**H. PERMANENT CONTROL MEASURES**

**1. PERMANENT GRASS OR LEGUME COVER**

- ALL DISTURBED AREAS THAT ARE NOT PAVED SHALL BE PERMANENTLY STABILIZED WITH GRASS TO MINIMIZE EROSION. ALL SWALES SHALL BE PERMANENTLY SEEDED AS REQUIRED IN ACCORDANCE WITH THE SEEDING SPECIFICATION SHOWN ON THE ATTACHED E&S PLAN.
- PERMANENT GRASS COVER SHALL BE APPLIED AS SPECIFIED IN ACCORDANCE WITH THE SEEDING SCHEDULE AND NOTES CONTAINED ON THE ATTACHED E&S PLAN.

**2. MULCH**

- MULCH SHALL BE APPLIED TO ALL SEEDED AREAS TO HELP ESTABLISH A PERMANENT GRASS COVER AND TO PREVENT EROSION ON ALL AREAS PERMANENTLY STABILIZED WITH SEED.
- MULCH SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE. MULCH SHALL BE ANCHORED WITH WOOD CELLULOSE FIBER AT 750 LBS/ACRE.

**3. SOD**

- SOD SHALL BE INSTALLED IN AREAS WHERE PERMANENT STABILIZATION WITH SEED ALONE IS DIFFICULT.
- SOD MATERIALS AND INSTALLATION SHALL MEET THE APPROVAL OF THE LEBANON COUNTY CONSERVATION DISTRICT.
- ALL PERMANENT AND TEMPORARY SPILLWAYS ARE TO BE SODDED TO PROVIDE IMMEDIATE EROSION PROTECTION. SOD SHALL EXTEND FROM THE SPILLWAY TO THE TOP OF THE SLOPE OF THE TRAP EMBANKMENT.

**4. RIP-RAP OUTLET PROTECTION**

- RIP-RAP SHALL BE USED AT ALL PIPE OUTLETS TO REDUCE THE OUTFLOW VELOCITY AND MINIMIZE EROSION POTENTIAL AT THE OUTLET PIPE.
- RIP-RAP SHALL BE INSTALLED IN ACCORDANCE WITH THE DIMENSIONS AND MATERIALS SHOWN ON THE ATTACHED PLAN.

**I. MAINTENANCE**

- THE APPLICANT/OR HIS DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING ALL FACILITIES SHOWN ON THIS PLAN.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROL AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN-OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, RE-MULCHING, AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY.
- STOCKPILES MUST BE STABILIZED IMMEDIATELY.
- ALL SEDIMENT REMOVED FROM SEDIMENT TRAPPING DEVICES SHALL BE DISPOSED WITHIN THE SITE IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION. ALL AREAS DISTURBED DURING THIS PROCESS WILL BE MULCHED AND PERMANENTLY STABILIZED WITH SEED.
- ANY PERMANENTLY SEEDED AREA THAT BECOMES ERODED OR DISTURBED SHALL HAVE THE TOPSOIL REPLACED, THE GRASS RE-SOWN AND MULCH REAPPLIED, OR, AT THE DISCRETION OF THE OWNER, SOD INSTALLED.
- FILTER SOCK MUST BE INSTALLED AT LEVEL GRADE. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK.
- STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE (1) YEAR MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE (1) YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS), TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

**J. FILL MATERIALS**

IF THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF-SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL IN MOST CASES RESIDE WITH THE OPERATOR. IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF-SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT.

**K. CLEAN FILL**

UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK, OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.

**L. CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE**

FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS A CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY MANAGEMENT OF FILL.

**M. ENVIRONMENTAL DUE DILIGENCE**

INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATABASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

**N. POTENTIAL POLLUTANT CAUSING MATERIALS**

THE SITE CONSISTS OF CLARKSBURG SOILS WHICH HAVE THE POTENTIAL TO ERODE WHEN DISTURBED. STANDARD EROSION CONTROLS SUCH AS ROCK CONSTRUCTION ENTRANCES, FILTER SOCKS, AND TEMPORARY AND FINAL SEEDING WILL BE UTILIZED TO MINIMIZE THE POTENTIAL FOR EROSION.

**O. MINIMIZE THE EXTEND AND DURATION OF EARTH DISTURBANCE**

THE CONSTRUCTION SEQUENCE ADDRESS THE ANTICIPATED SEQUENCE OF CONSTRUCTION AND PROVIDES PROVISIONS FOR INTERIM STABILIZATION AND A PERIODIC STABILIZATION SCHEDULE TO MINIMIZE THE DURATION AND EXTEND OF DISTURBANCE AT ANY ONE TIME.

**P. E&S PLAN MINIMIZES SOIL COMPACTION**

THE PROJECT WILL COMPACT FILL ONLY AS NEEDED TO PROVIDE THE NECESSARY STRUCTURAL STABILITY. IT IS NOT ANTICIPATED THERE WILL BE ANY UNNECESSARY COMPACTION BY CONSTRUCTION EQUIPMENT SINCE THE PROJECT IS LIMITED IN SIZE AND CONSTRUCTION EQUIPMENT WILL GENERALLY BE CONCENTRATED IN AREAS OF PROPOSED DRIVEWAYS IMMEDIATELY ADJACENT TO THE PROPOSED STRUCTURES. TOPSOIL WILL BE PLACED IN ACCORDANCE WITH INDUSTRY STANDARDS AND WILL NOT BE OVERLY COMPACTED. THE TOPSOIL PLACEMENT AND STABILIZATION WILL BE THE LAST STEPS OF THE PROJECT WITH LIMITED POTENTIAL FOR UNWARRANTED COMPACTION.

**Q. E&S PLAN UTILIZES OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF**

A STORMWATER MANAGEMENT SYSTEM IS PROPOSED TO REDUCE PEAK RATES OF RUNOFF AND THE VOLUME OF RUNOFF. DISTURBED AREAS WILL BE RESTORED TO MEADOW/GRASS CONDITIONS SIMILAR TO PRE-DEVELOPMENT CONDITIONS.

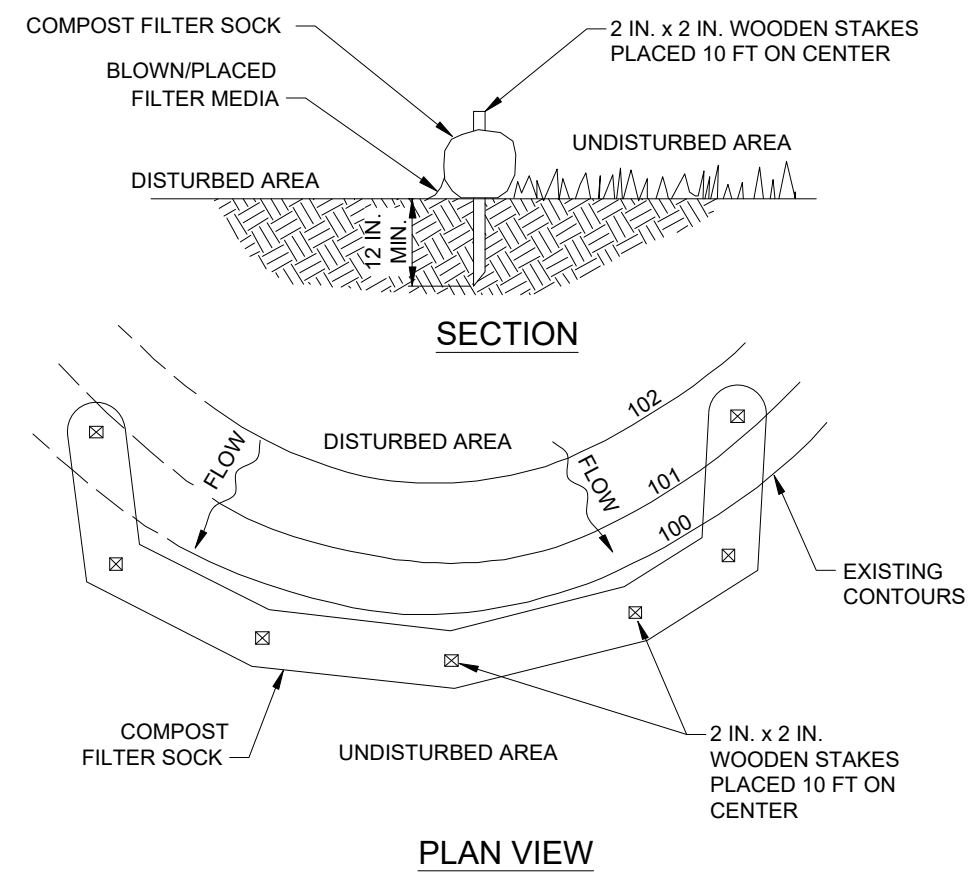
**R. THERMAL IMPACT ANALYSIS**

NO THERMAL IMPACTS ARE EXPECTED FROM THIS PROJECT. THE RUNOFF IS COLLECTED AND CONVEYED TO THE INFILTRATION BED VIA SUBSURFACE CONVEYANCE FACILITIES WHICH ALLOW THE RUNOFF TO COOL PRIOR TO ENTERING THE BED. ONCE ENTERING THE BED, THE RUNOFF WILL BE DETAINED AND ALLOWED TO COOL FURTHER PRIOR TO GROUNDWATER DISCHARGE.

**S. ANALYSIS OF DOWSTREAM CHANNEL**

THE MAJORITY OF THE SITE (DRAINAGE AREAS 1 AND UNDETAINED 1) DRAINS TO AN EXISTING OUTLET AREA ON THE SITE WHICH DISCHARGES TO THE QUITTAPAHILLA CREEK. THE EXISTING DRAINAGE PATH IS STABLE AND IN GOOD CONDITION.

NO ADVERSE IMPACTS ARE EXPECTED AS PART OF THIS DEVELOPMENT. THE EXISTING STORMWATER MANAGEMENT SYSTEM AND PROPOSED REVISIONS TO THE SYSTEMS REDUCE PEAK FLOWS AND RUNOFF VOLUME TO LESS THAN PRE-DEVELOPMENT CONDITIONS. THEREFORE, THE CONVEYANCE CAPACITY OF THE DOWNSTREAM CHANNEL WILL BE IMPROVED. THE CURRENT DRAINAGE PATHS ARE STABLE AND WILL CONTINUE TO BE SO IN POST-DEVELOPMENT CONDITIONS.



**NOTES:**

- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL.
- SOCK 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 3 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.

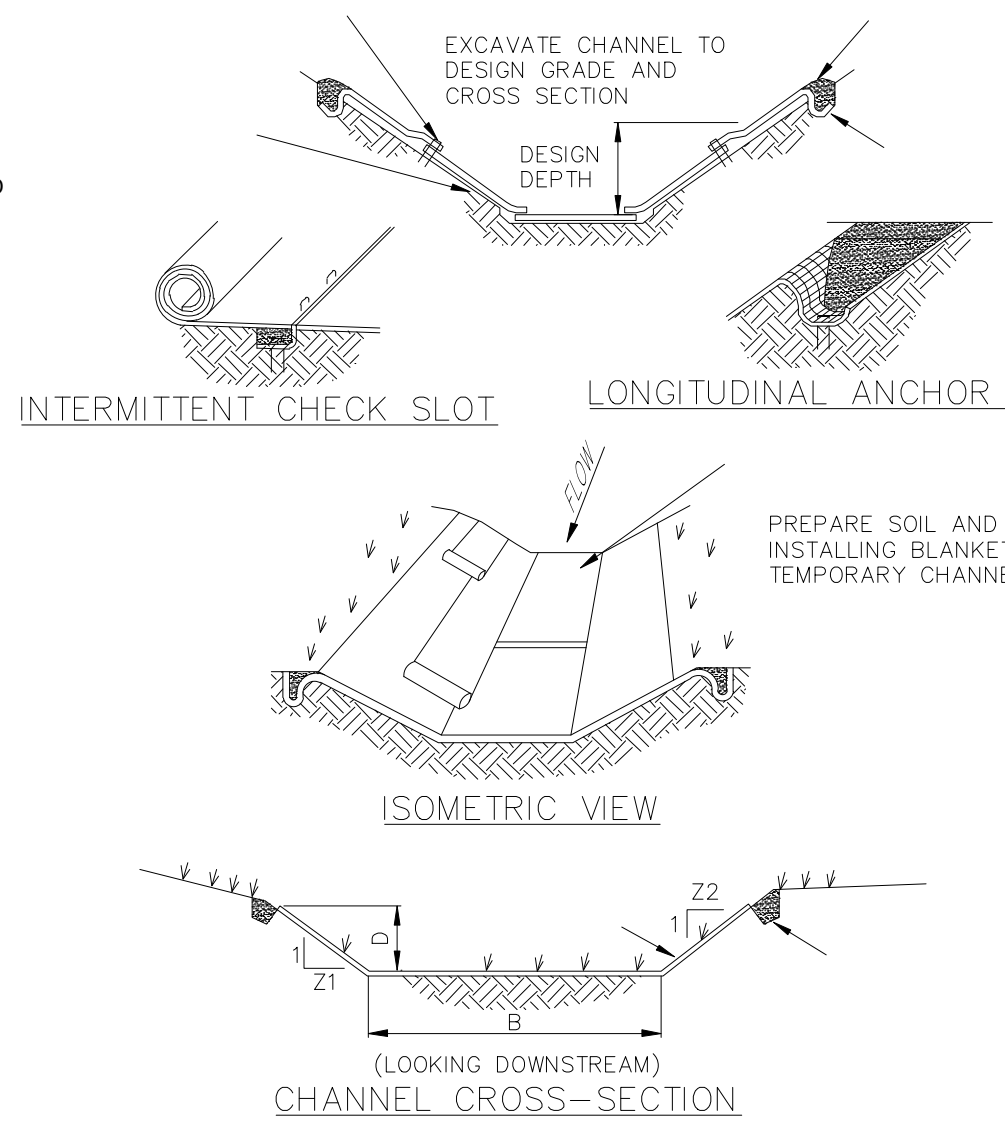
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

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.

**STANDARD CONSTRUCTION DETAIL #4-1  
COMPOST FILTER SOCK**

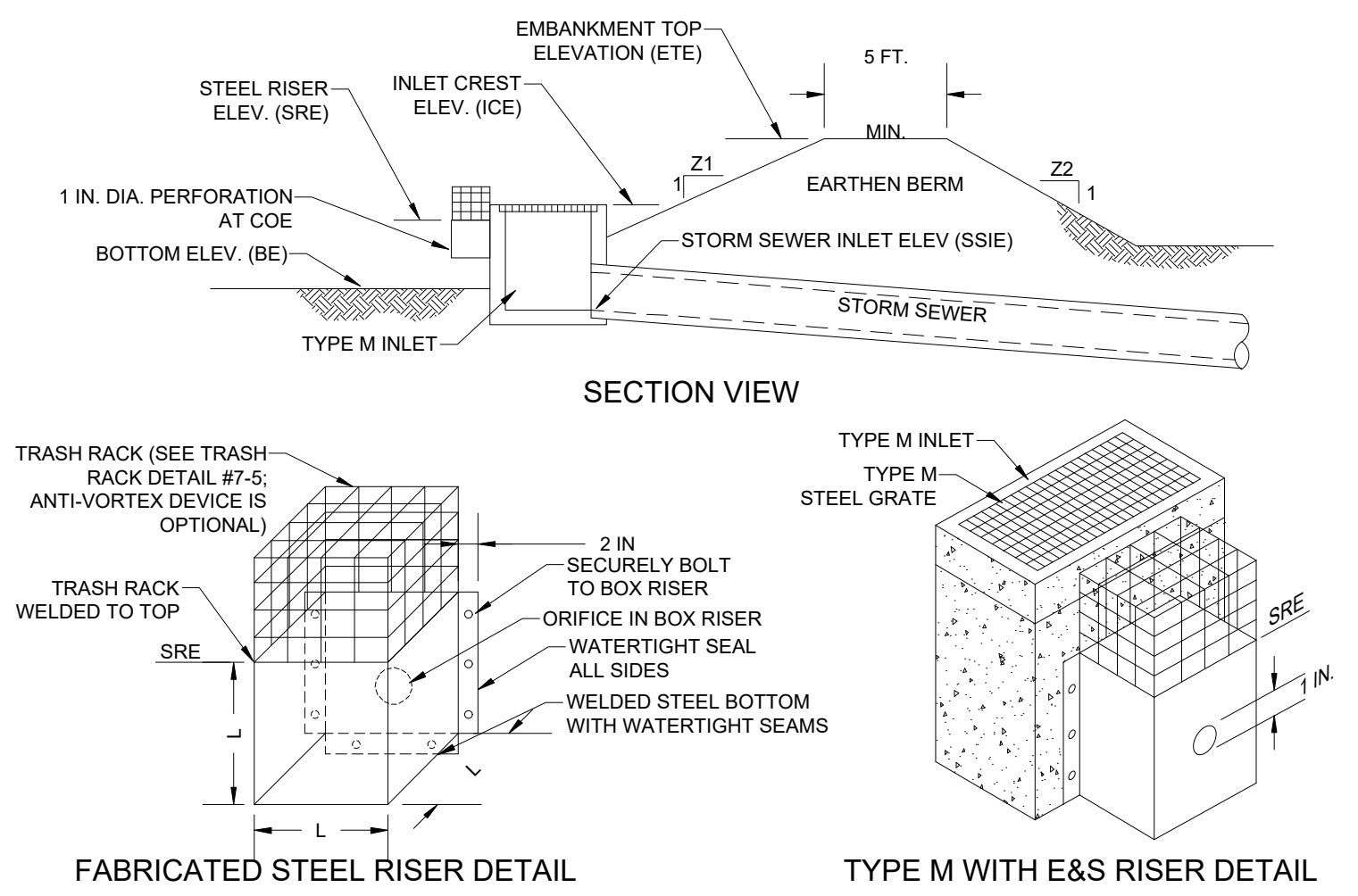


CHANNEL	STATIONS	B (ft)	D (ft)	Z <sub>1</sub>	Z <sub>2</sub>	LINING	Staple Pattern
A	All	1.5	1.5	3	3	Grass/N.A.G. S75	D
B	All	2	1	3	3	Grass/N.A.G. S75	D

\* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

**STANDARD CONSTRUCTION DETAIL  
VEGETATED CHANNEL**

NOT TO SCALE



TRAP NO.	Z <sub>1</sub> (FT)	Z <sub>2</sub> (FT)	FABRICATED RISER		PERF. ELEV. COE (FT)	STORM SEWER INVERT ELEV. (FT)	INLET CREST ELEV. ICE (FT)	EMBANK TOP ELEV. ETE (FT)	BOTTOM ELEV. BE (FT)
			LENGTH L (FT)	STEEL RISER ELEV. SRE (FT)					
1	3	3	1.25	494.60	494.00	493.50	495.15	496.50	493.00

**NOTES:**

FILL MATERIAL FOR THE BERM SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE BERM SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. ELEVATION BTE SHALL BE MINIMUM 24 IN. ABOVE INLET CREST ELEVATION (ICE).

UPON COMPLETION, THE BERM SHALL BE SEEDED, MULCHED, BLANKETED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.

ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.

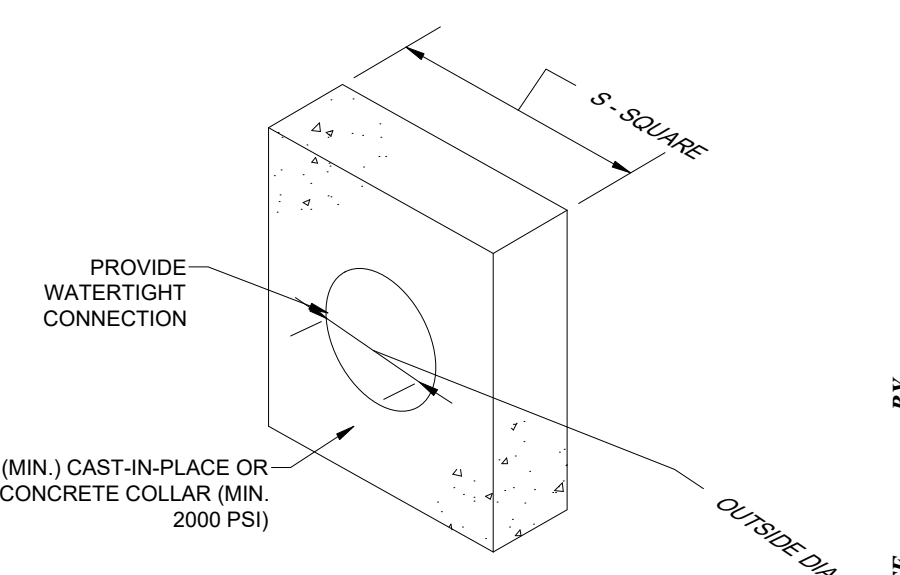
A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.

CHECK BERMS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED INLETS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS.

REMOVE ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS INSIDE THE TRAP BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY.

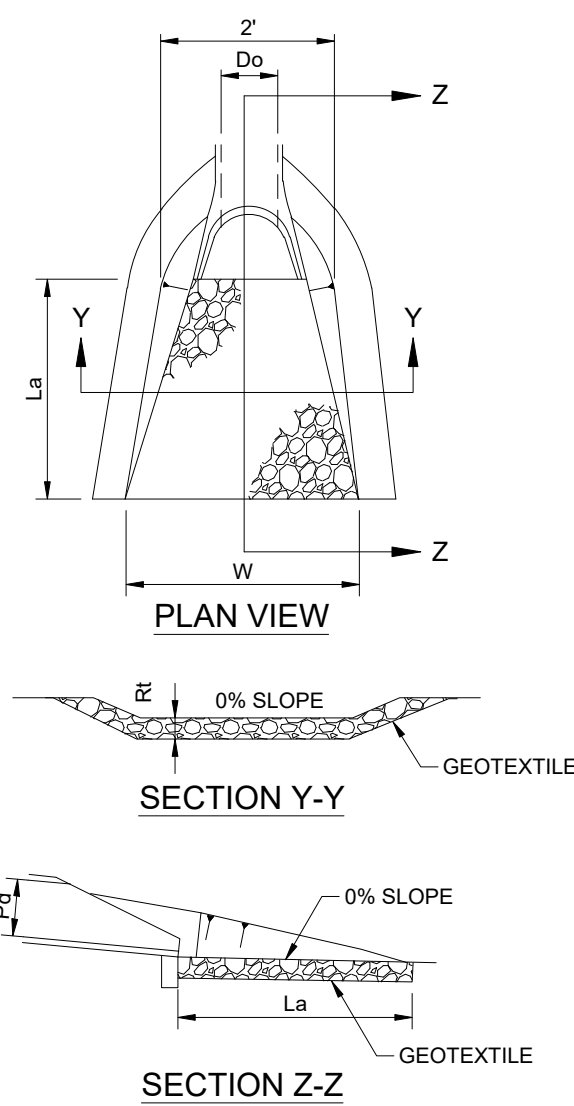
**STANDARD CONSTRUCTION DETAIL #8-7  
TYPE M INLET SEDIMENT TRAP**

NOT TO SCALE



Basin	# of Collars	D (ft)	Size (ft)
1	2	1.21	2.59

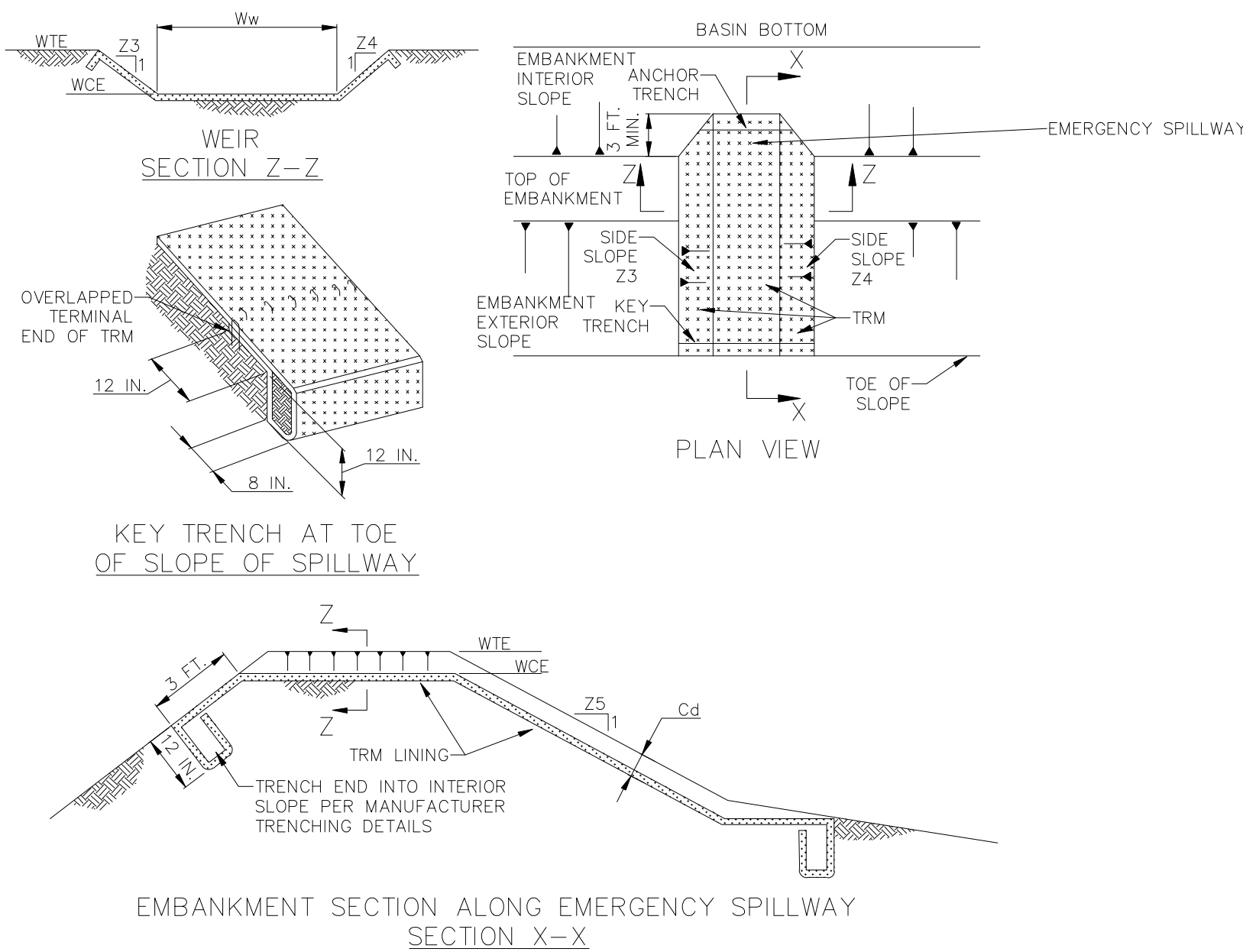
**STANDARD CONSTRUCTION DETAIL #7-**



**NOTES:**  
 ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.  
 ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

OUTLET NO.	PIPE DIA., D <sub>O</sub> (in)	TAILWATER CONDITION	"n"	Slope (ft/ft)	L <sub>a</sub> (ft)	A <sub>iw</sub> (ft)	A <sub>tw</sub> (ft)	Q (cfs)	V (fps)	RIPRA P (R-?)	DEPTH (ft)
FES-6	12	Min	0.012	0.59	6	3	9	1.93	3.88	3	1

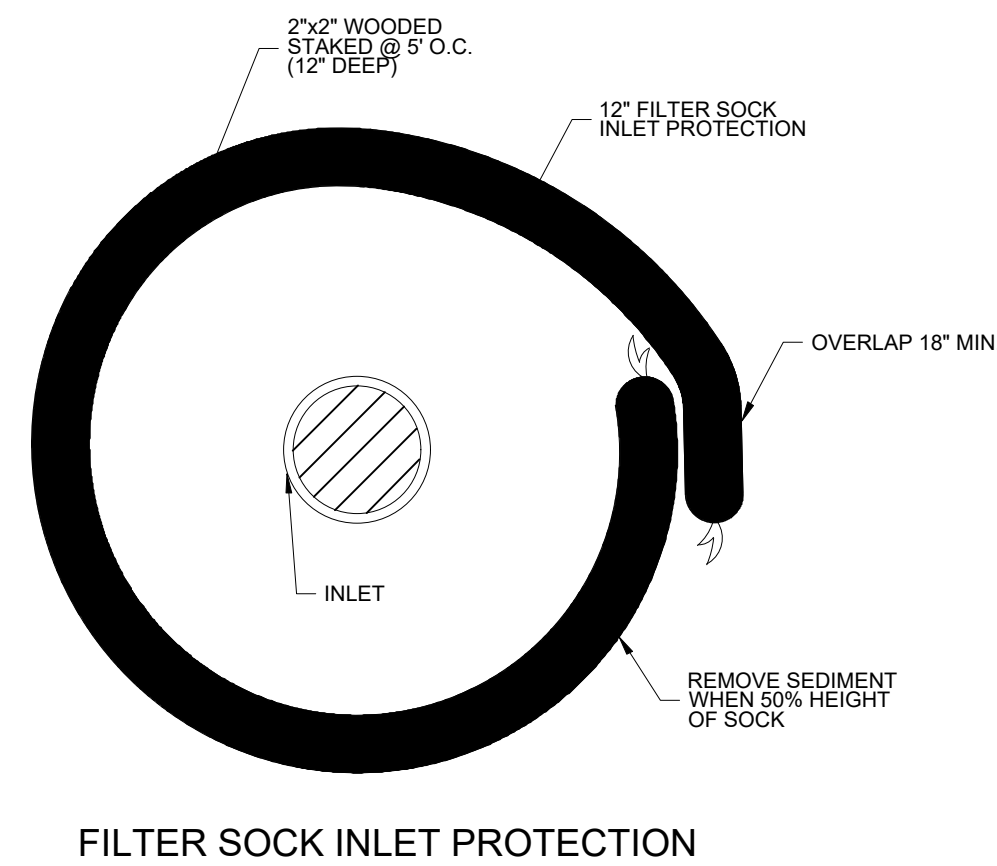
**STANDARD CONSTRUCTION DETAIL #9-1  
 RIPRAP APRON AT PIPE OUTLET WITH  
 FLARED END SECTION OR ENDWALL**  
 NOT TO SCALE



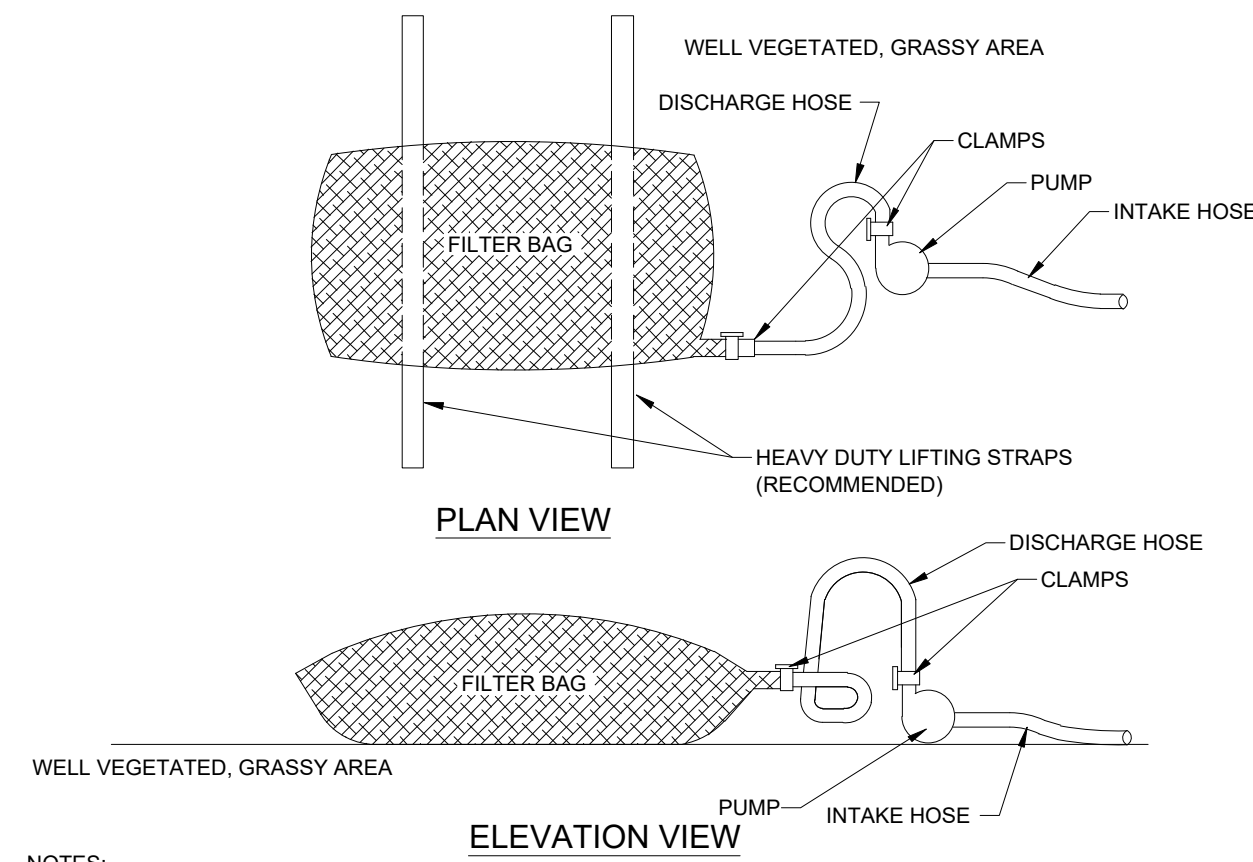
BASIN NO.	Q100 (CFS)	Z3 (FT)	Z4 (FT)	Z5 (FT)	C	WIDTH (FT)	FLOW HEIGHT (FT)	CREST ELEV WCE	TOP ELEV WTE	TRM TYPE	STAPLE PATTERN	FREEBOARD
1	9.51	3	3	3	3.00	15	0.35	495.15	496.50	SC250	E	1.00

**NOTES:**  
 HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.  
 DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

**EMERGENCY SPILLWAY WITH TRM LINING**



**FILTER SOCK INLET PROTECTION**



**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-4832	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.

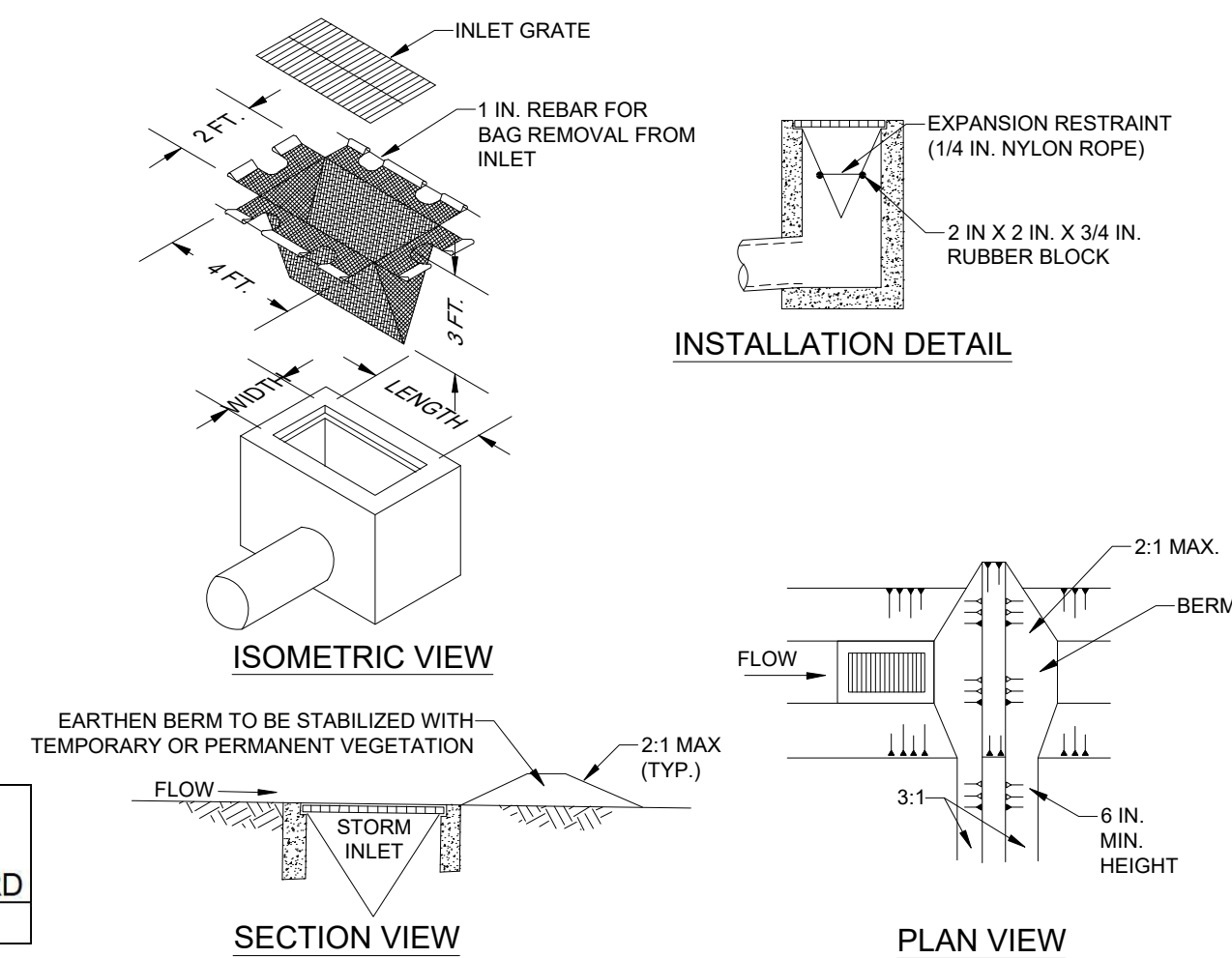
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

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.

**STANDARD CONSTRUCTION DETAIL #3-16  
 PUMPED WATER FILTER BAG**  
 NOT TO SCALE



**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 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.

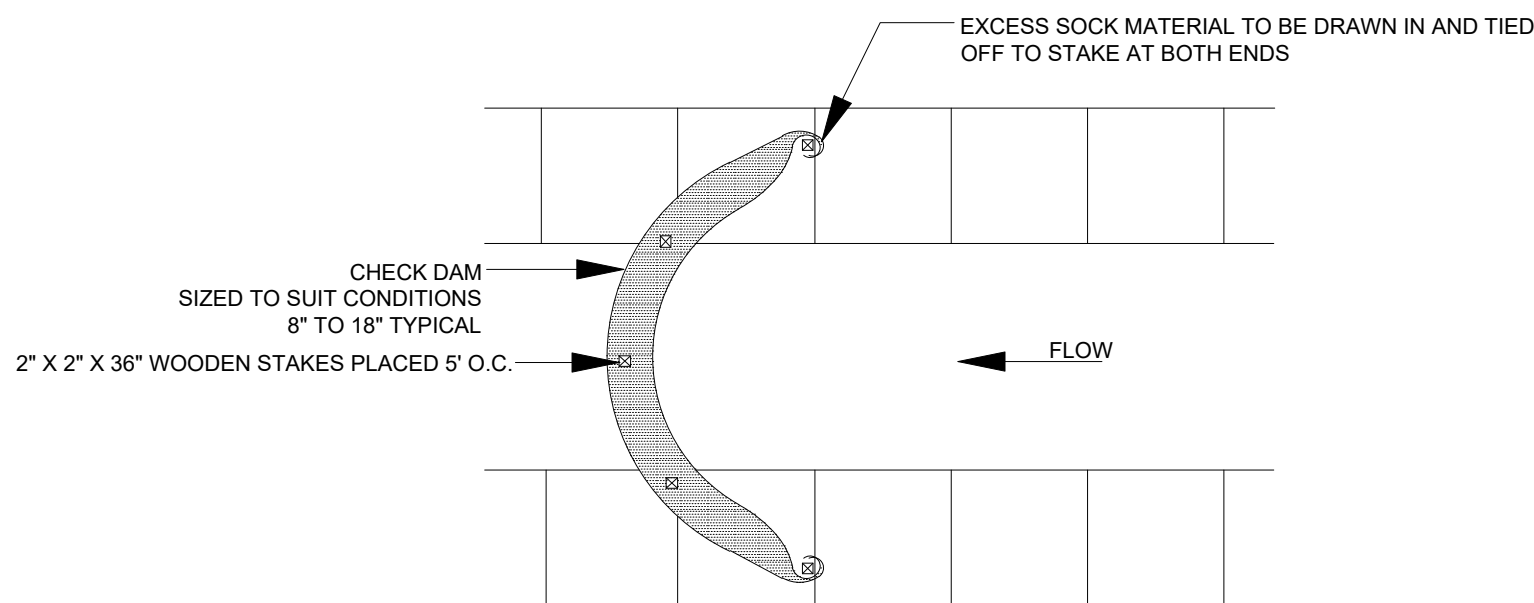
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-16  
 FILTER BAG INLET PROTECTION - TYPE M INLET**  
 NOT TO SCALE

APPLICATION	SPECIES	APPLICATION RATE 1 (P.L.S. IN LBS/AC)	FERTILIZER (LBS/ACRE)	LIMING RATE 2 (TONS/ACRE)	FINAL SEEDING DATE
TEMPORARY	ANNUAL RYE	174	50-50-50 N-P-K	AG GRADE	OCTOBER 30
PERMANENT	FINE FESCUES	60	100-200-200 N-P-K	6 AG GRADE	AUGUST 30 AND OCTOBER 30
	KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	25	100-200-200 N-P-K	6 AG GRADE	AUGUST 30 AND OCTOBER 30
ATHLETIC FIELDS	KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	150	100-200-200 N-P-K	6 AG GRADE	AUGUST 30 AND OCTOBER 30
RIPARIAN BUFFER	ERNST MIX ERNMX-178	20	100-200-200 N-P-K	6 AG GRADE	AUGUST 30 AND OCTOBER 30
STEEP SLOPES					
NURSE CROP	ANNUAL RYE	64	50-50-50 N-P-K	1 TON/AC AG GRADE	OCT. 15
PERMANENT	BIRDSFOOT TREFLOIL PLUS	10	100-200-200 N-P-K	1 TON/AC AG GRADE	MARCH 15 AND OCT. 15
	CROWN VETCH PLUS PLUS TALL FESCUE	20	100-200-200 N-P-K	1 TON/AC AG GRADE	MARCH 15 AND OCT. 15

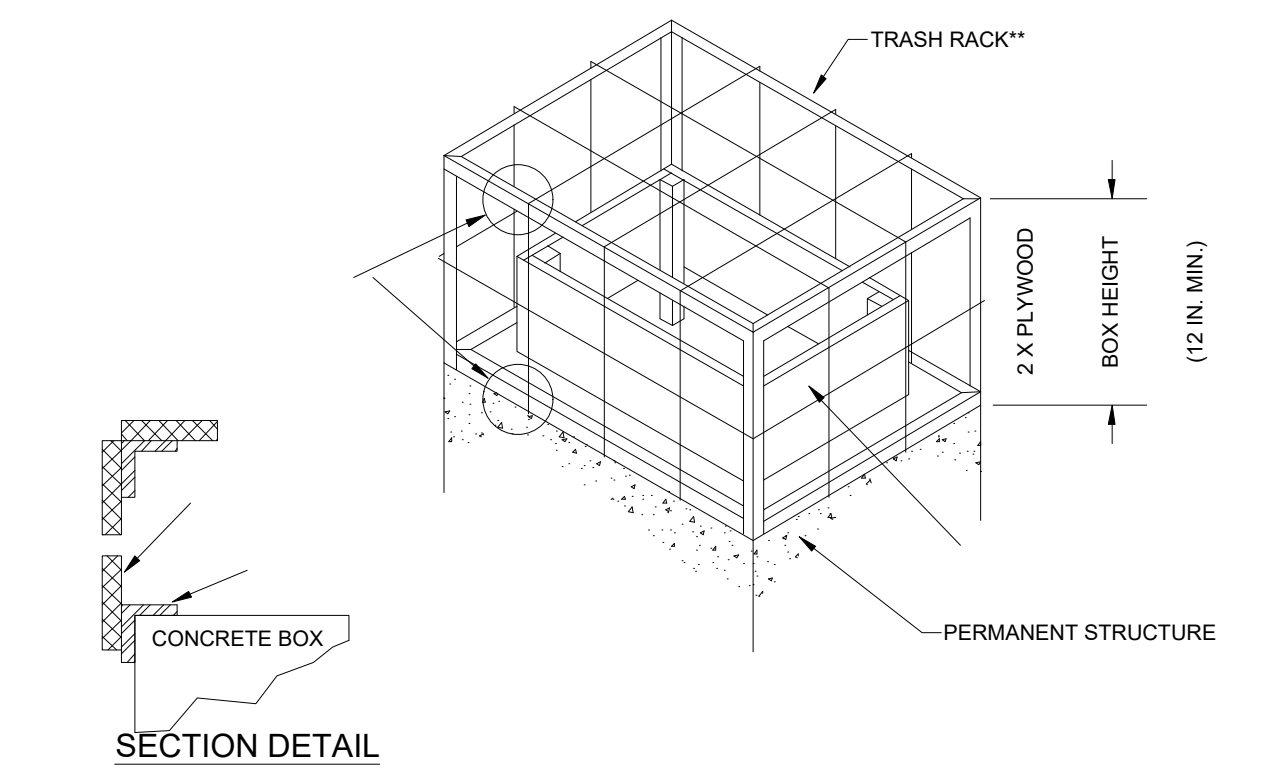
1. PLS IS PURE LIVE SEED. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO SECURE THE ACTUAL PLANTING RATE, DIVIDE THE POUNDS PLS BY THE PLS PERCENTAGE SHOWN ON THE SEED TAG OR AS PREVIOUSLY DISCUSSED. THUS, IF THE PLS CONTENT OF FINE FESCUES IS 60%, DIVIDE 7 PLS BY 60 TO OBTAIN 140 POUNDS OF SEED PER ACRE.  
 2. LIMING RATE SHALL BE IN ACCORDANCE WITH SOIL TEST RESULTS. APPLY 6 TONS OF AGRICULTURAL GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS.  
 - ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW APPLIED AT A RATE OF 3 TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC.  
 - ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.

**SEEDING & FERTILIZER SPECIFICATIONS**



**NOTES:**  
 1. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.  
 2. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.  
 3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.  
 4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.

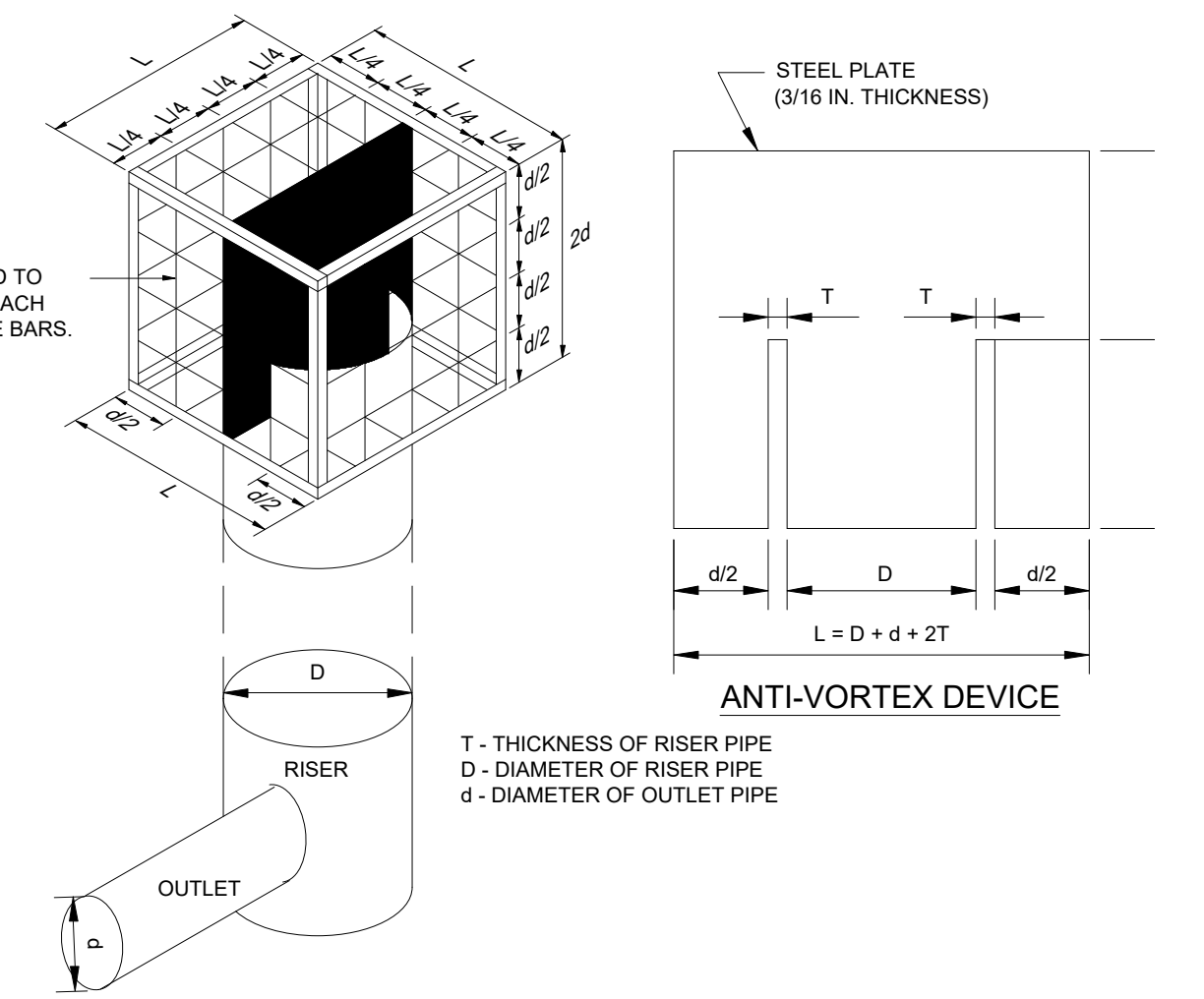
**STANDARD CONSTRUCTION DETAIL #4-1.2  
 COMPOST FILTER SOCK CHECK DAM**  
 NOT TO SCALE



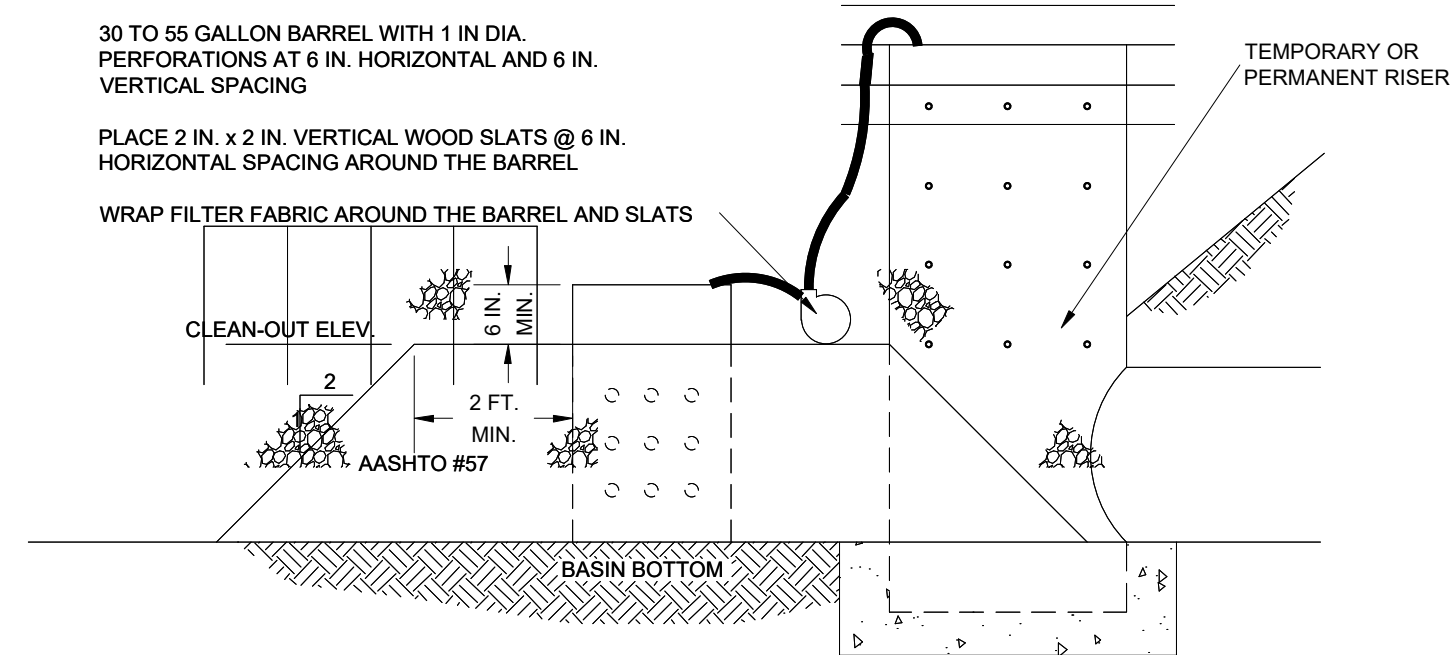
\* 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.  
 \*\* TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

**NOTES:**  
 BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.  
 TOP OF TEMPORARY RISER EXTENSION SHALL BE AT LEAST AS HIGH AS SEDIMENT BASIN TEMPORARY RISER AND SHALL BE 6 IN. (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY.  
 ALL JOINTS SHALL BE WATER TIGHT.  
 CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

**STANDARD CONSTRUCTION DETAIL #7-10  
 TEMPORARY RISER EXTENSION AND  
 TRASH RACK FOR PERMANENT STRUCTURE**  
 NOT TO SCALE

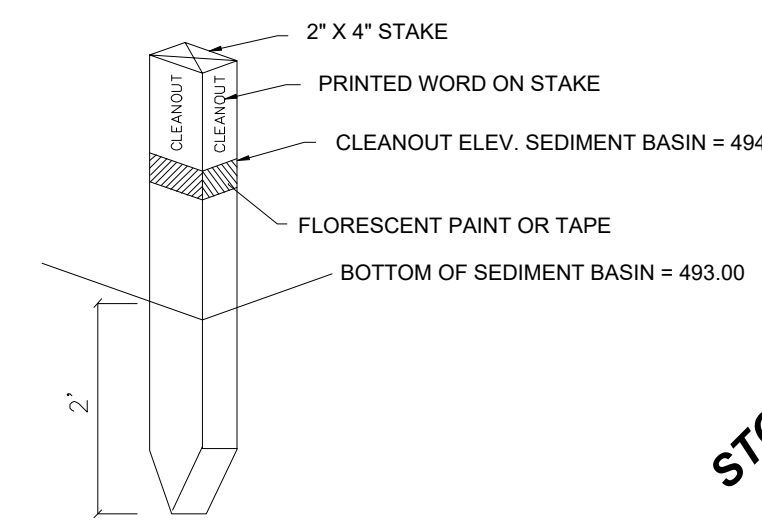


**STANDARD CONSTRUCTION DETAIL #7-5  
 TRASH RACK AND ANTI-VORTEX DEVICE**  
 NOT TO SCALE



**NOTES:**  
 DEWATERING FACILITY SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF BASIN/TRAP.  
 PRIOR TO INITIATING OPERATION OF DEWATERING FACILITY, ALL ACCUMULATED SEDIMENT SHALL BE CLEANED FROM THE INSIDE OF THE BARREL.  
 DEWATERING FACILITY SHALL BE CONTINUOUSLY MONITORED DURING OPERATION. IF FOR ANY REASON THE DEWATERING FACILITY CEASES TO FUNCTION PROPERLY, IT SHALL BE IMMEDIATELY SHUT DOWN AND NOT RESTARTED UNTIL THE PROBLEM HAS BEEN CORRECTED.

**STANDARD CONSTRUCTION DETAIL #7-18  
 SEDIMENT BASIN OR SEDIMENT TRAP  
 SEDIMENT STORAGE DEWATERING FACILITY**  
 NOT TO SCALE



**NOTES:**  
 CLEANOUT STAKES MUST BE PLACED AT A HALF DISTANCE FROM CONCENTRATED INFLOWS TO TEMPORARY RISERS. WHEN SEDIMENT HAS ACCUMULATED TO CLEANOUT ELEVATION ON ANY STAKE, IT MUST BE REMOVED TO RESTORE BASIN CAPACITY.

**CLEANOUT STAKE**  
 NOT TO SCALE

**STORMWATER MANAGEMENT PLAN**  
 FOR  
**MANNA FOODS LLC - TRUCK PARKING**  
 NORTH LEBANON TOWNSHIP, LEBANON, PA



FEBRUARY 19, 2026

802 Cornwall Road  
 Lebanon PA 17042  
 717.654.8573  
 Erosion & Sediment  
 Pollution Control Details

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