

# POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

## PENNSYLVANIA PIPELINE PROJECT DOYLESBURG STATION

### TOBOYNE TOWNSHIP, PERRY COUNTY, PENNSYLVANIA

NOVEMBER 2016

DRAWING INDEX	
SHEET No.	DRAWING TITLE
C-1	GENERAL NOTES & LEGEND
C-2	EXISTING CONDITIONS PLAN
C-3	PROPOSED GRADING & POST CONSTRUCTION STORMWATER PLAN
C-4	STORMWATER MANAGEMENT DETAILS

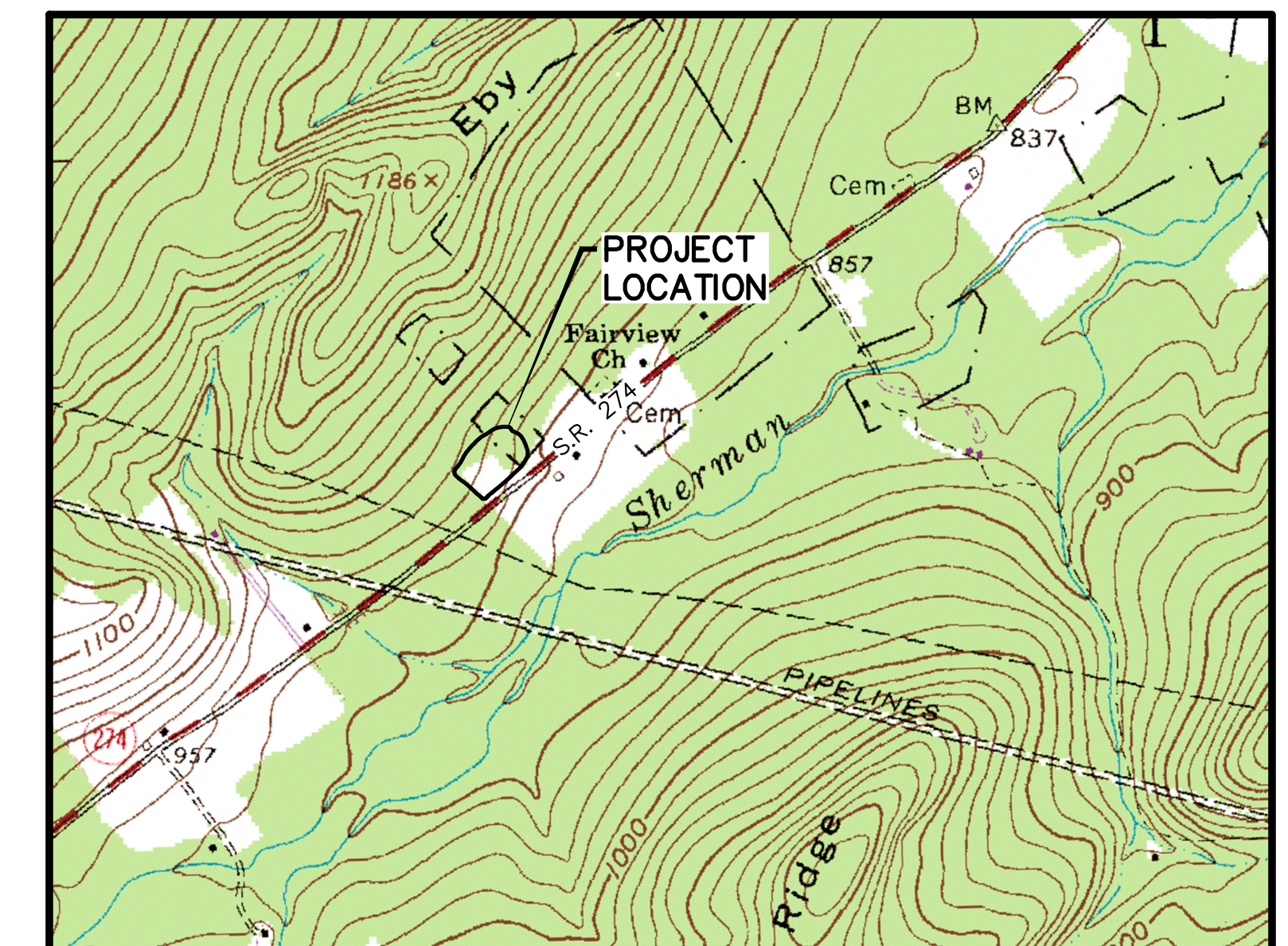
PREPARED BY:



complex world | CLEAR SOLUTIONS™

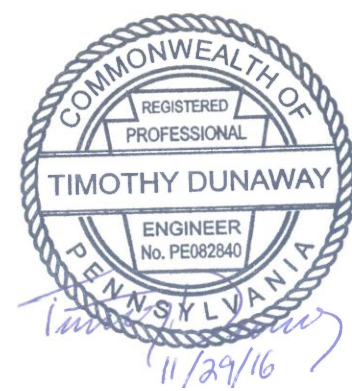
661 ANDERSEN DRIVE – FOSTER PLAZA 7, PITTSBURGH, PA 15220  
TEL: (412) 921-7090 | FAX: (412) 921-4040

PREPARED FOR:  
SUNOCO PIPELINE L.P.  
SINKING SPRING, PENNSYLVANIA



LOCATION MAP  
DOYLESBURG STATION  
TOBOYNE TOWNSHIP, PERRY COUNTY, PENNSYLVANIA

0 1000 2000  
SCALE IN FEET



NOTE: A GEOTECHNICAL REPORT IS BEING PREPARED SEPARATELY FROM THIS PLAN. THE CERTIFYING ENGINEER OF THIS PLAN HAS NOT ASSESSED AND DOES NOT CERTIFY THE GEOTECHNICAL FEATURES OF THIS PLAN, INCLUDING FOUNDATION DESIGN AND SLOPE STABILITY.

**NOTES:**

1. TOPOGRAPHIC MAPPING AND FEATURES COMPILED FROM WWW.PASDA.PSU.EDU.
2. SURVEY COMPLETED BY TRICO SURVEYING & MAPPING INC.
3. THE PROJECT TAKES PLACE WITHIN TOBOYNE TOWNSHIP, PERRY COUNTY, PENNSYLVANIA.
4. SITE DRAINS TO UNT TO SHERMAN CREEK. SHERMAN CREEK IS LISTED AS HQ/CWF UNDER CHAPTER 93.
5. THE RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THIS PLAN ARE THE RESPONSIBILITY OF SUNOCO PIPELINE L.P. TO SECURE WITH THE INDIVIDUAL PROPERTY OWNER. THE RIGHTS-OF-WAY AND EASEMENTS SHOWN ON THIS PERMIT DRAWING REPRESENT THE BEST AVAILABLE PROPERTY INFORMATION AS PROVIDED TO TETRA TECH, INC. BY SUNOCO PIPELINE L.P. THE RIGHTS-OF-WAY AND EASEMENTS SHALL BE VERIFIED AND LOCATED IN THE FIELD BY SUNOCO PIPELINE L.P.

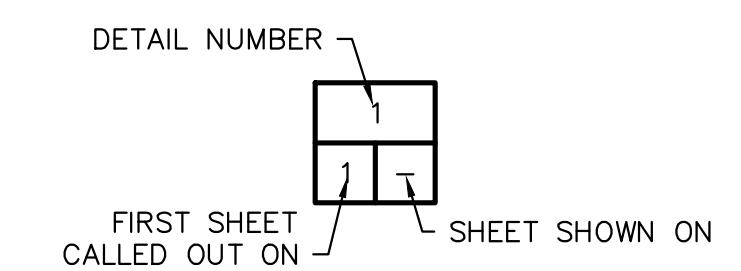
**PROJECT DESCRIPTION:**

THE PROJECT INVOLVES CONSTRUCTION AT THE DOYLESBURG PUMP STATION EXPANSION, WHICH WILL BE CONNECTED TO THE PPP TWENTY-INCH DIAMETER TRANSMISSION PIPELINE. CONSTRUCTION ACTIVITIES WILL INVOLVE INSTALLATION OF A ROCK CONSTRUCTION ENTRANCE, EXPANSION OF THE DOYLESBURG PUMP STATION PAD, AND SITE RESTORATION. PUMP STATION EXPANSION ACTIVITIES INCLUDE THE INSTALLATION OF ABOVE GROUND PIPES AND PIPE SUPPORTS. THE PROPOSED PROJECT WILL BE CONSTRUCTED WITHIN AN LOD OF APPROXIMATELY 1.80 ACRES IN PERRY COUNTY.

**LEGEND**

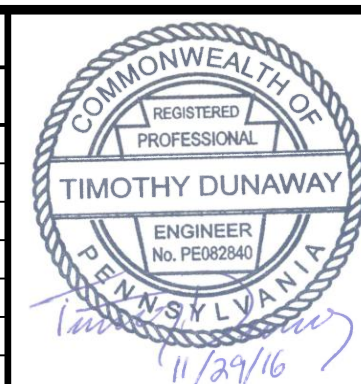
- 1.320— EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING FENCELINE
- EXISTING BUILDING
- PROPERTY LINE
- PROPOSED FACILITY PIPING
- EXISTING FACILITY PIPING
- PROPOSED FENCELINE
- LIMIT OF DISTURBANCE/PERMIT BOUNDARY
- ROAD RIGHT-OF-WAY
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR

**DETAIL INDICATOR**



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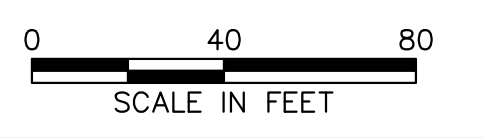
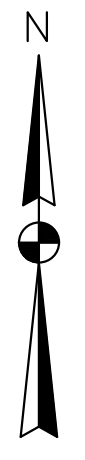
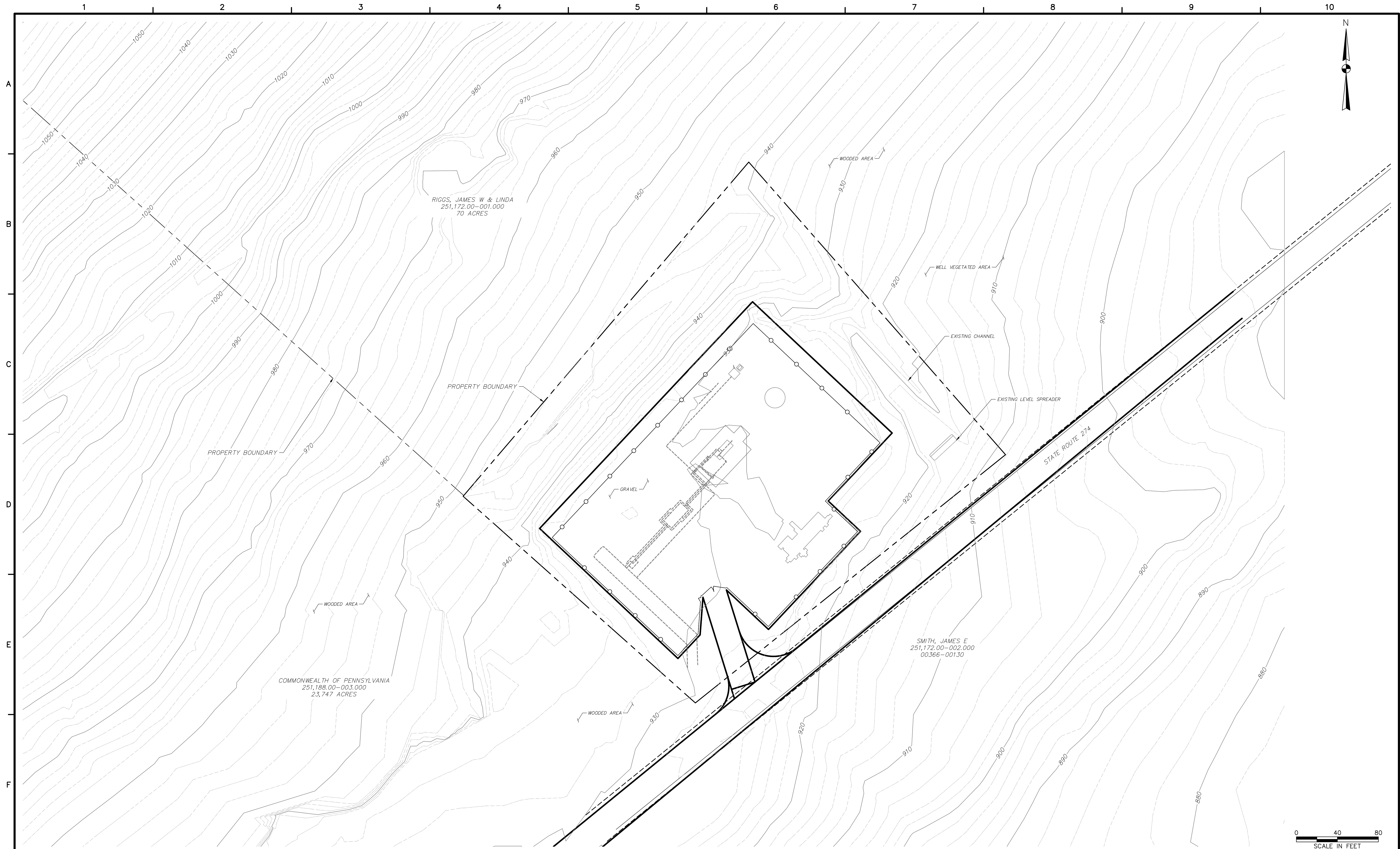
REVISIONS		
NO.	BY	DATE
1	TD	11/30/18



SUNOCO PIPELINE L.P.  
SINKING SPRING, PENNSYLVANIA  
  
DOYLESBURG STATION

ESCGP-2 POST CONSTRUCTION STORMWATER PLAN  
  
GENERAL NOTES & LEGEND

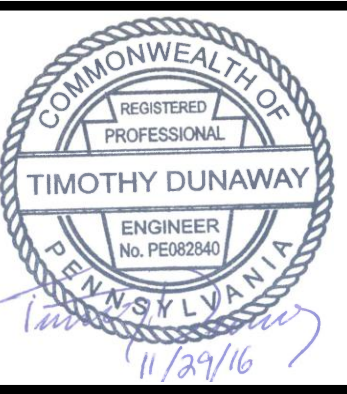
DATE:	3/7/16
PROJECT NO.:	112IC05370
DESIGNED BY:	RS
DRAWN BY:	BH
CHECKED BY:	RS
COPYRIGHT TETRA TECH INC.	
<b>C-1</b>	
SHEET	1 OF 4



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REVISIONS		
NO.	BY	DATE
1	TD	11/30/18

REMARKS  
 REVISED FOR DEP TECHNICAL COMMENTS

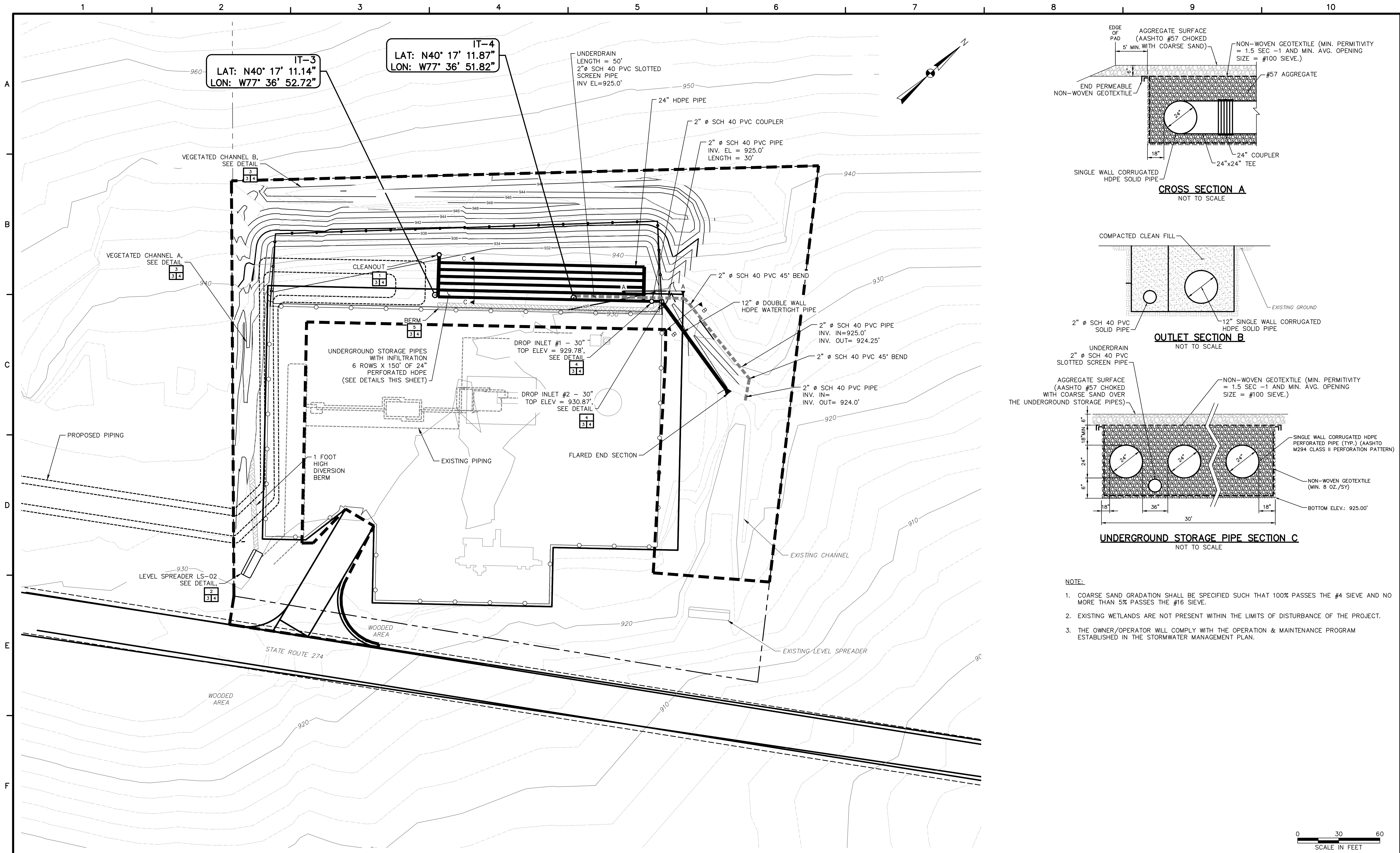


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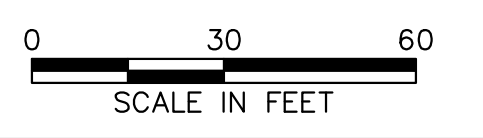
ESCGP-2 POST CONSTRUCTION STORMWATER PLAN

EXISTING CONDITIONS PLAN

DATE:	3/7/16
PROJECT NO.:	112IC05370
DESIGNED BY:	RS
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<b>C-2</b>	
SHEET	2 OF 4

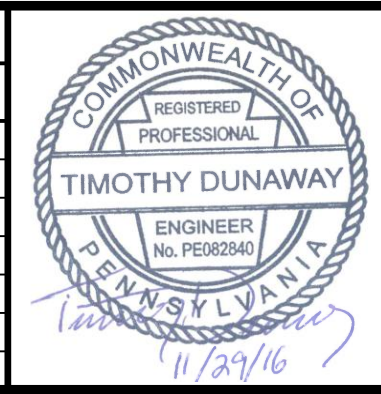


- NOTE:**
1. COARSE SAND GRADATION SHALL BE SPECIFIED SUCH THAT 100% PASSES THE #4 SIEVE AND NO MORE THAN 5% PASSES THE #16 SIEVE.
  2. EXISTING WETLANDS ARE NOT PRESENT WITHIN THE LIMITS OF DISTURBANCE OF THE PROJECT.
  3. THE OWNER/OPERATOR WILL COMPLY WITH THE OPERATION & MAINTENANCE PROGRAM ESTABLISHED IN THE STORMWATER MANAGEMENT PLAN.



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REVISIONS			REMARKS
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1	TD	11/30/18	REVISED FOR DEP TECHNICAL COMMENTS

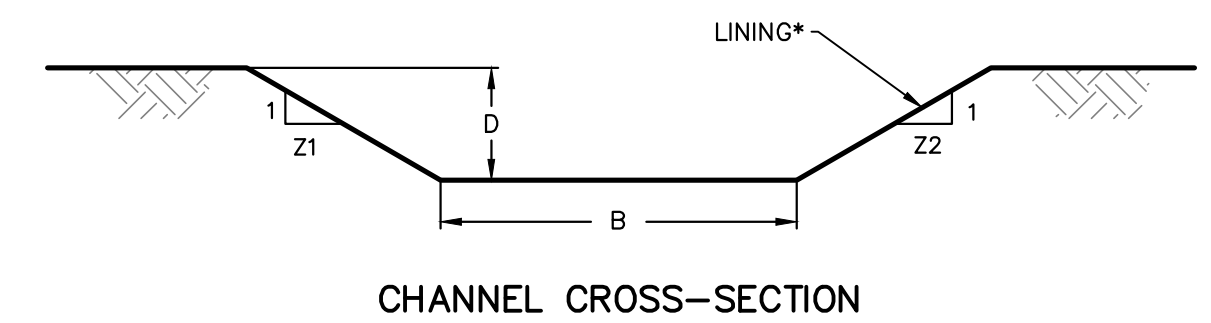
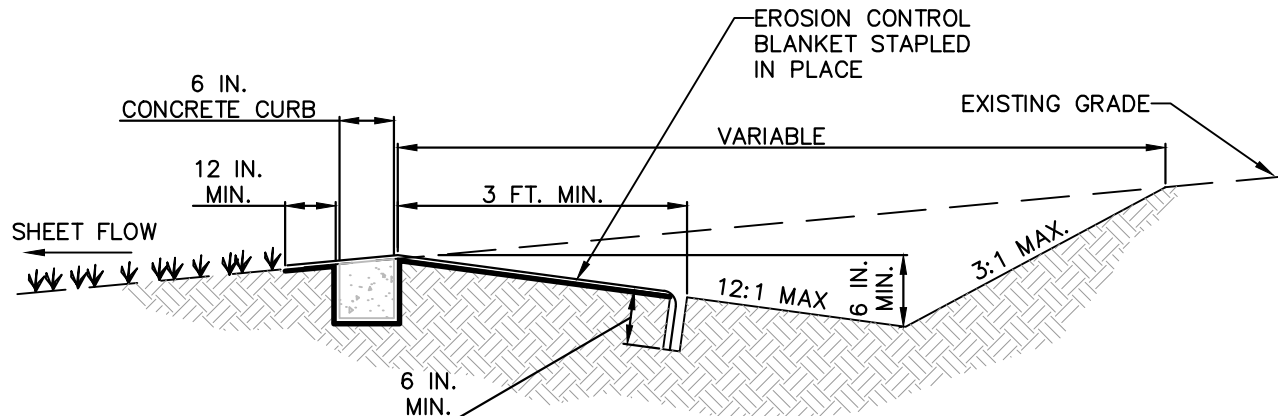


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SINKING SPRING, PENNSYLVANIA  
  
DOYLESBURG STATION

ESCGP-2 POST CONSTRUCTION STORMWATER PLAN  
  
PROPOSED SITE LAYOUT & GRADING PLAN

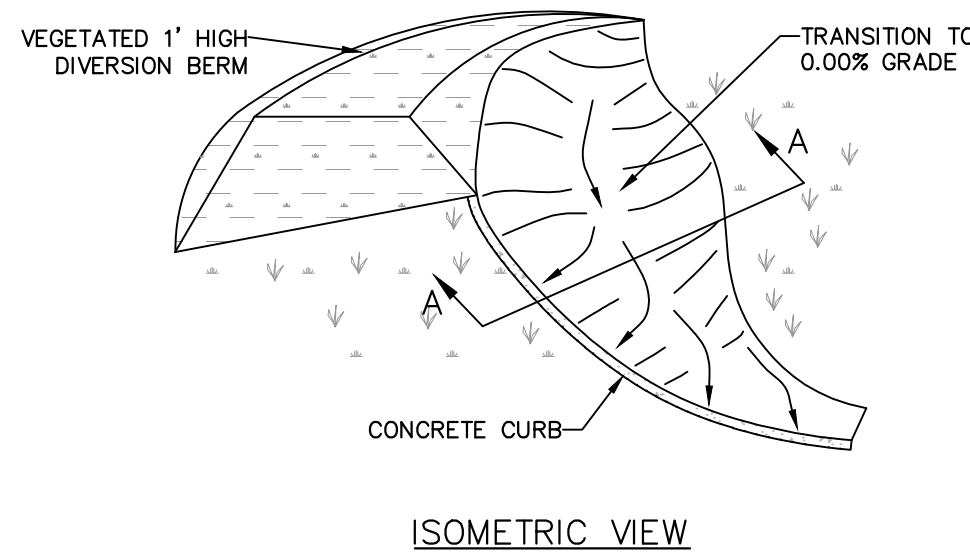
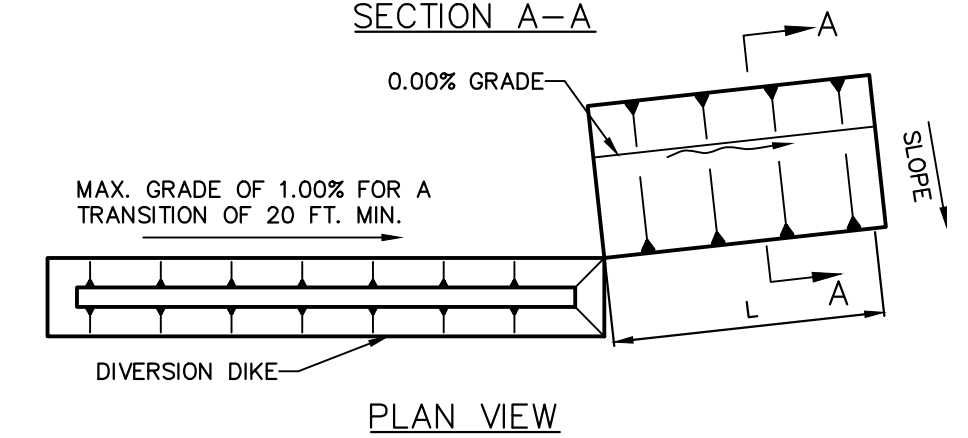
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<b>C-3</b>	
SHEET	3 OF 4

A  
B  
C  
D  
E  
F



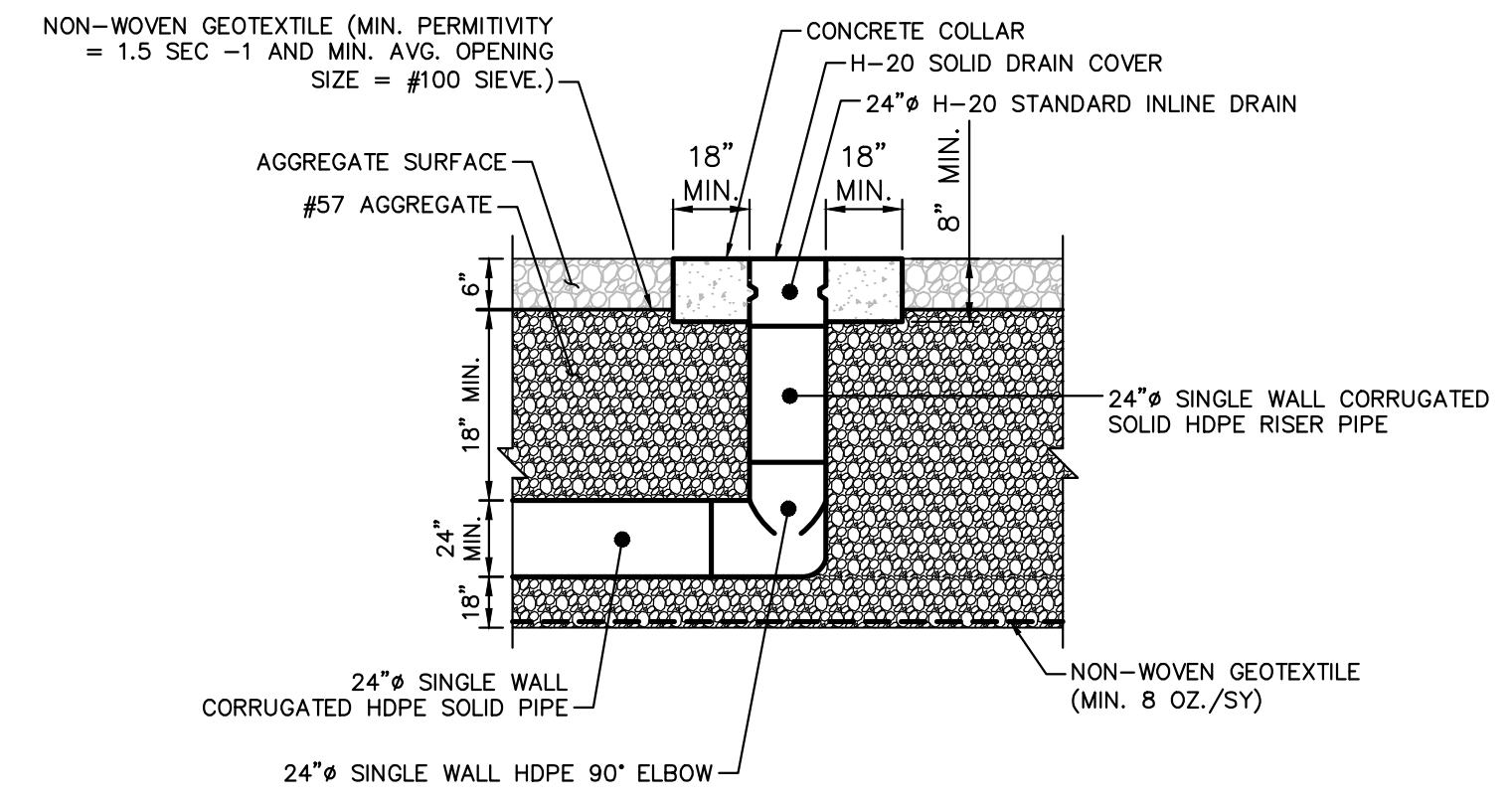
CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	Z1 (FT)	Z2 (FT)	LINING*
A	0	1	2	2	GRASS+TRM
B	0	3	2	2	GRASS+TRM

**VEGETATED CHANNELS**  
NOT TO SCALE

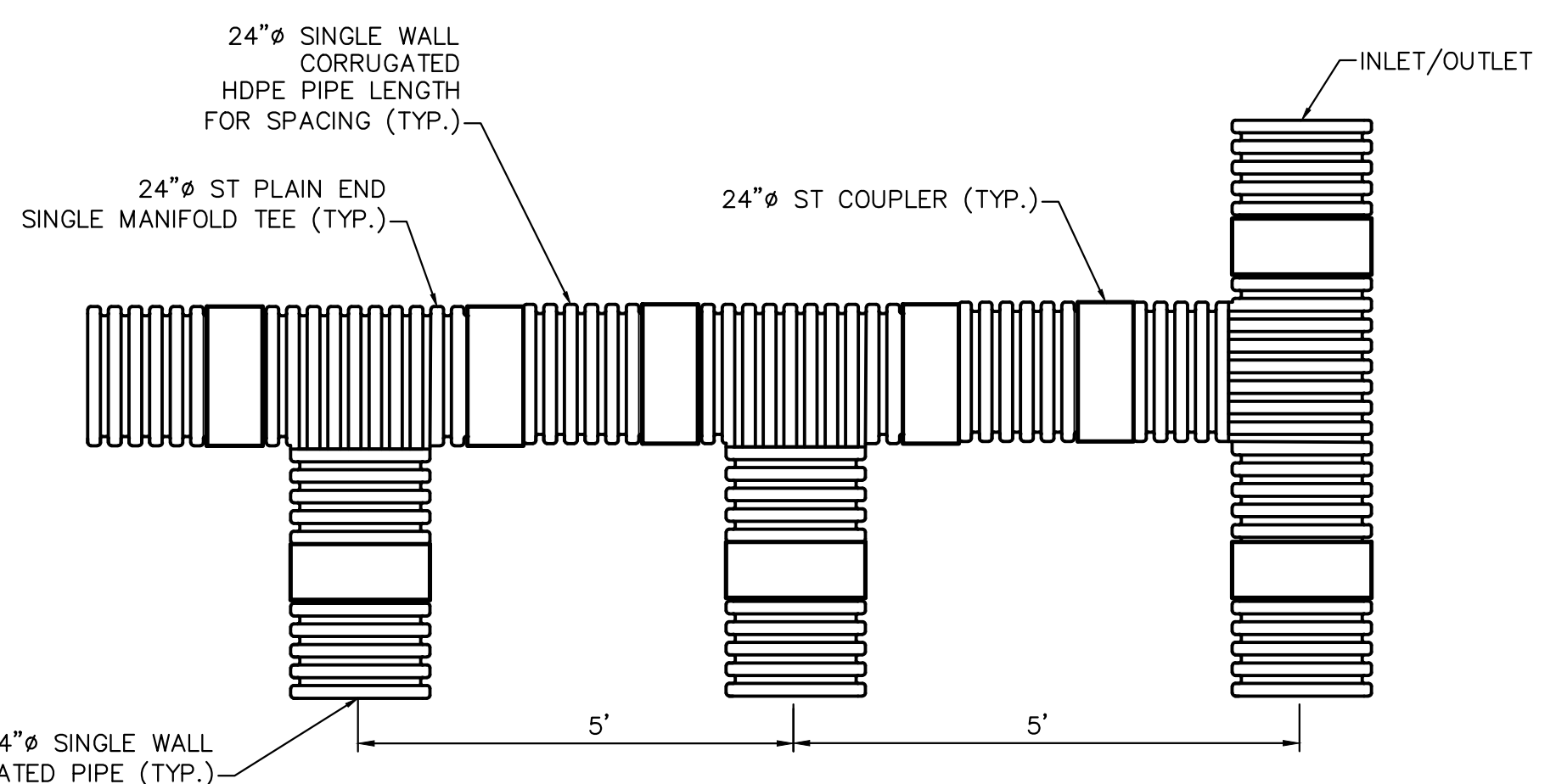


NOTES:  
1. LEVEL SPREADER LENGTH (L)=26'  
2. VEGETATE ALL DISTURBED AREAS WITH PERMANENT SEED MIX.

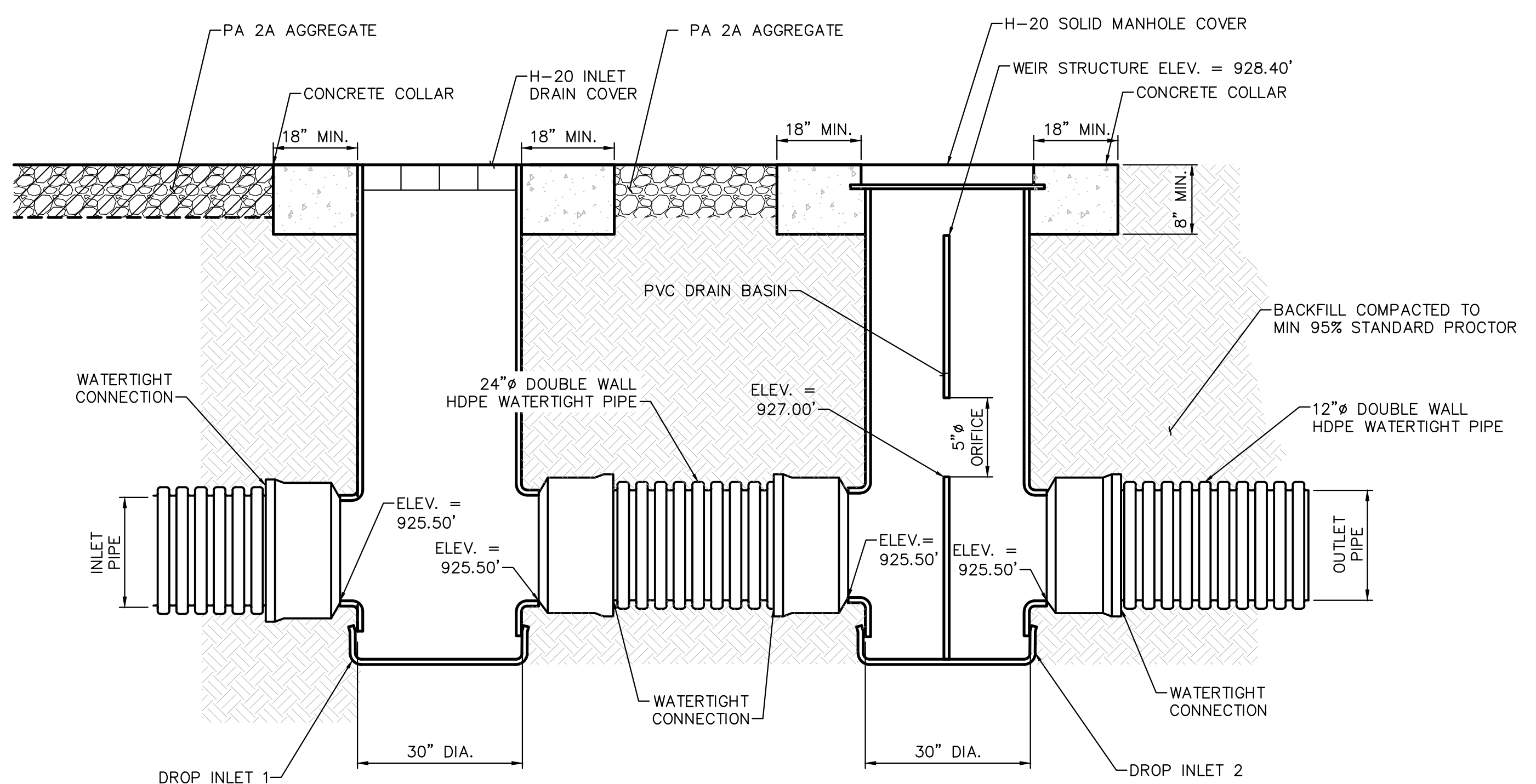
**LEVEL SPREADER DETAIL**  
NOT TO SCALE



**CLEANOUT DETAIL**  
NOT TO SCALE

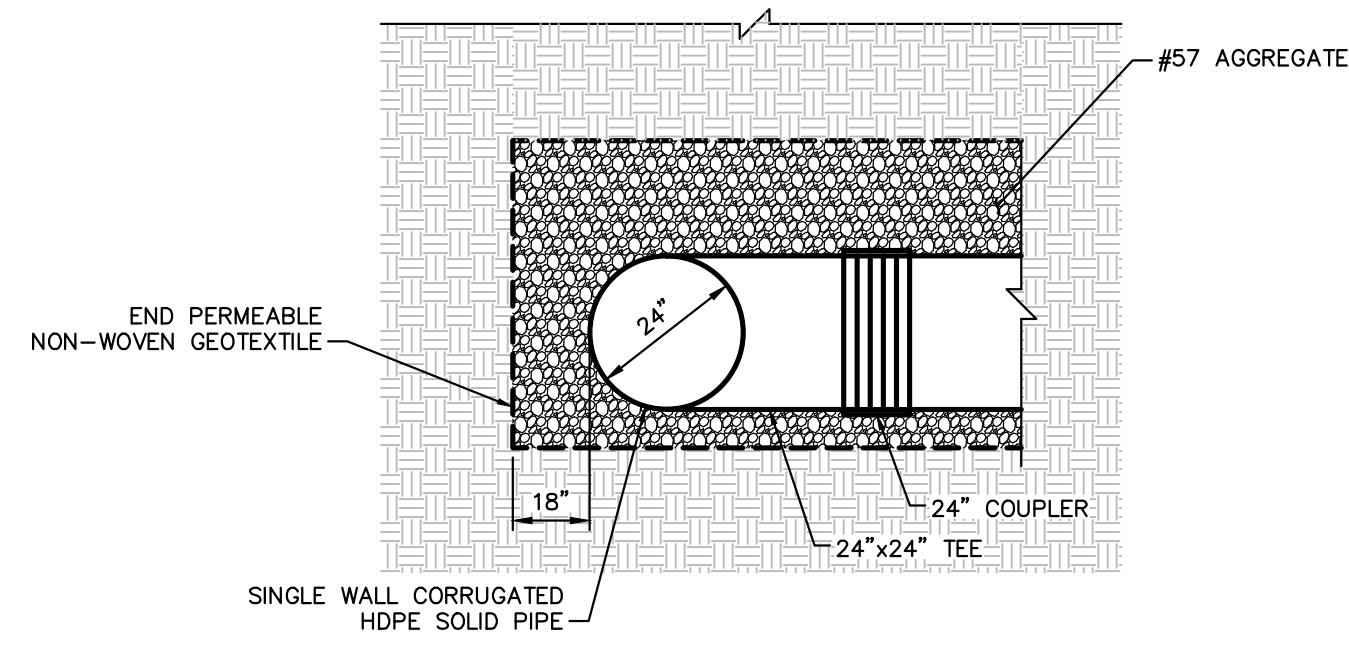


**MANIFOLD DETAIL**  
NOT TO SCALE

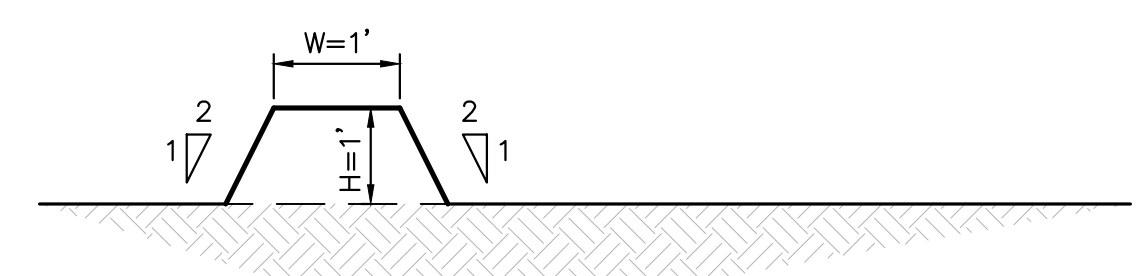


NOTE: THE WEIR STRUCTURE SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE PVC DRAIN BASIN AND SHALL BE PRE-ORDERED AND INSTALLED BY MANUFACTURER

**DROP INLET DETAIL**  
NOT TO SCALE



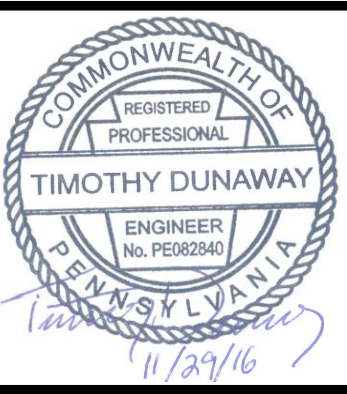
**MANIFOLD SECTION A**  
NOT TO SCALE



**BERM DETAIL**  
NOT TO SCALE

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