

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

PENNSYLVANIA PIPELINE PROJECT MT. UNION STATION

SHIRLEY TOWNSHIP, HUNTINGDON COUNTY, PENNSYLVANIA

NOVEMBER 2016

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C-4	CONSTRUCTION DETAILS

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

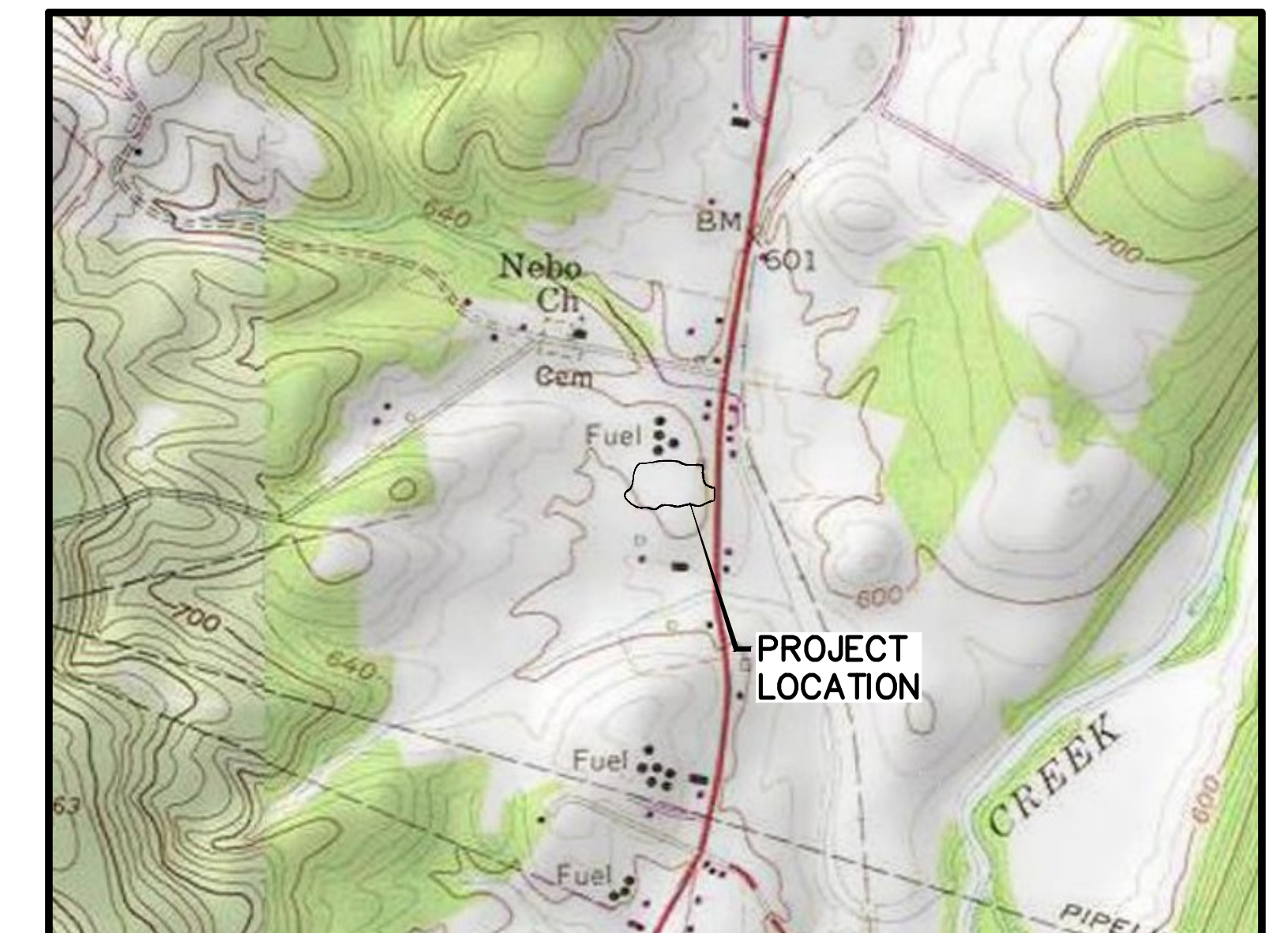


PREPARED BY:



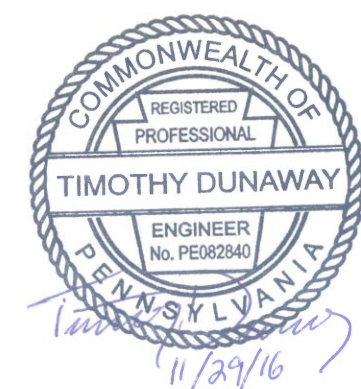
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LOCATION MAP
MT. UNION STATION
SHIRLEY TOWNSHIP, HUNTINGDON COUNTY, PENNSYLVANIA

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.



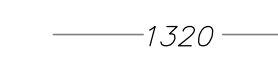

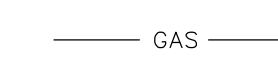

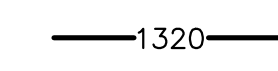
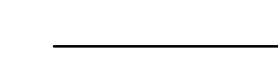

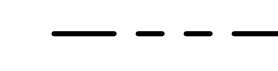
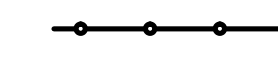

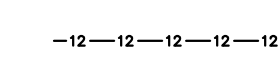
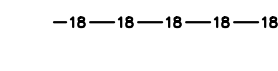
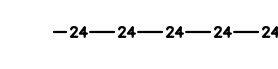
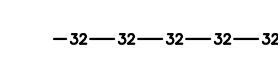



NOTES:

- EXISTING TOPOGRAPHY AND FEATURES COMPILED FROM WWW.PASDA.PSU.EDU, AND TRICO SURVEYING AND MAPPING INC.
- PROPERTY LINES FROM TRICO SURVEYING AND MAPPING INC.
- COMPOST FILTER SOCK INSTALLATION TO BE ADJUSTED AS NEEDED.
- THE RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THIS PLAN ARE THE RESPONSIBILITY OF SUNOCO LOGISTICS PARTNERS, 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 LOGISTICS PARTNERS, L.P. THE RIGHTS-OF-WAY AND EASEMENTS SHALL BE VERIFIED AND LOCATED IN THE FIELD BY SUNOCO LOGISTICS PARTNERS, L.P.
- COMPOST FILTER SOCK INSTALLATION MUST BE ADJUSTED, AS NEEDED, TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN FIELD DURING VARIOUS PHASES OF THE PROJECT.

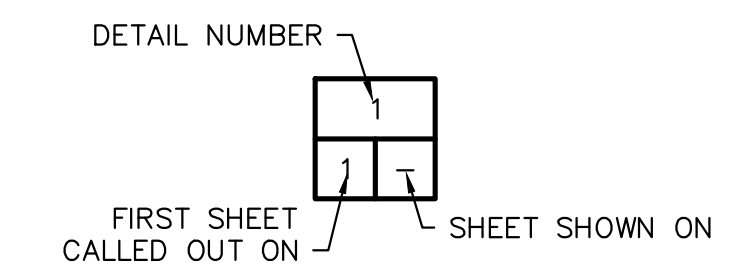
PLAN NARRATIVE:

THE PROJECT INVOLVES CONSTRUCTION AT THE MT. UNION 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 OF THE MT. UNION PUMP STATION PAD, AND SITE RESTORATION. PUMP STATION EXPANSION ACTIVITIES INCLUDE THE INSTALLATION OF A LAUNDER, RECEIVER, KNOCK OUT TANK, AND PIPE SUPPORTS. THE PROPOSED EXPANSION WILL BE CONSTRUCTED WITHIN AN LOD OF APPROXIMATELY 2.83 ACRES IN HUNTINGDON COUNTY.

LEGEND

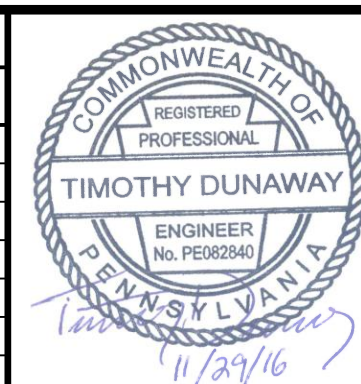
-  EXISTING 10' CONTOUR
-  EXISTING 2' CONTOUR
-  EXISTING SUNOCO GAS LINE
-  EXISTING GAS LINE
-  PROPOSED 10' CONTOUR
-  PROPOSED 2' CONTOUR
-  EXISTING BUILDING
-  PROPERTY LINE
-  PROPOSED FENCE
-  PROPOSED UTILITY POLE
-  12" COMPOST FILTER SOCK
-  18" COMPOST FILTER SOCK
-  24" COMPOST FILTER SOCK
-  32" COMPOST FILTER SOCK
-  LIMIT OF DISTURBANCE/PERMIT BOUNDARY
-  EXISTING PIPING
-  EXISTING PEM WETLAND

DETAIL INDICATOR



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1	TD	11/30/16	REVISED FOR DEP TECHNICAL COMMENTS



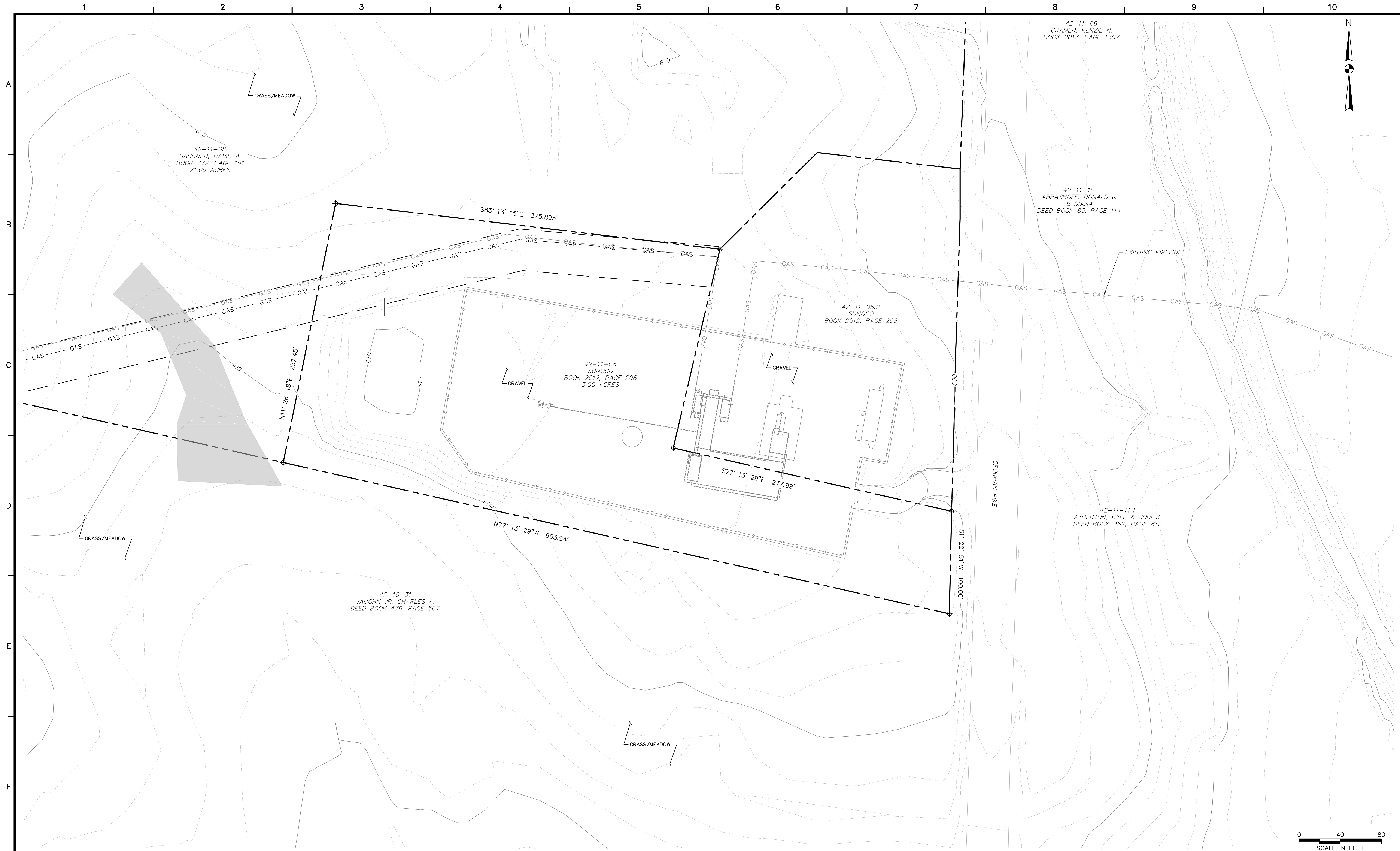
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MT. UNION STATION

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

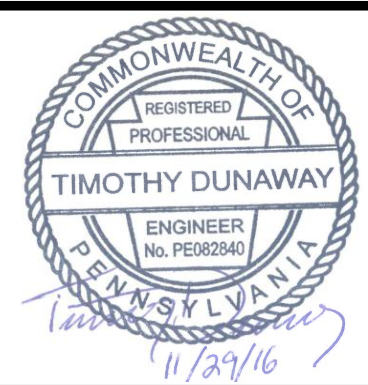
GENERAL NOTES & LEGEND

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PROJECT NO.:	212ICPB00136
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DRAWN BY:	BH
CHECKED BY:	DZ
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C-1	
SHEET	1 OF 4



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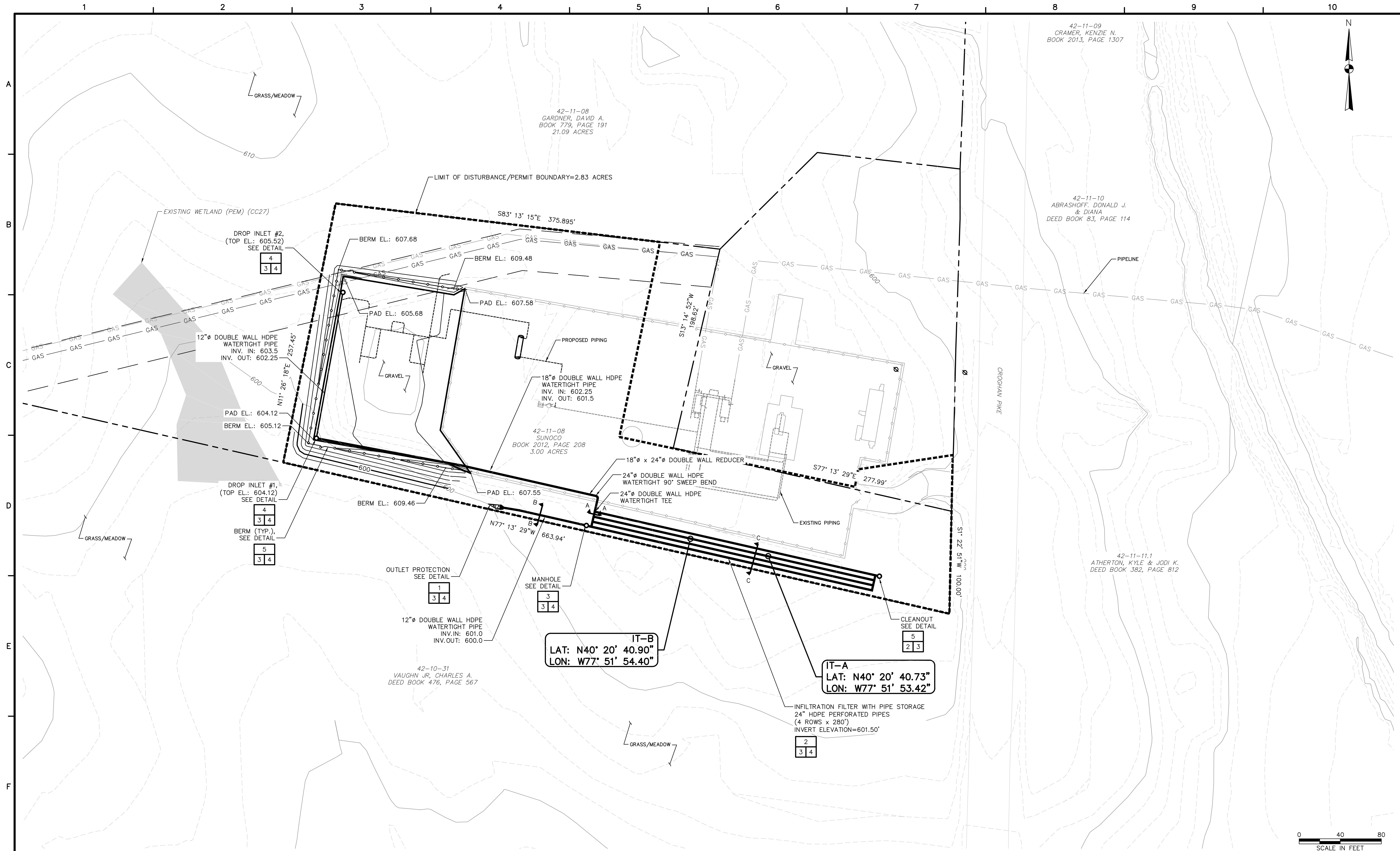
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 EXISTING CONDITIONS PLAN

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C-2	
SHEET	2 OF 4



42-11-09
CRAMER, KENZIE N.
BOOK 2013, PAGE 1307

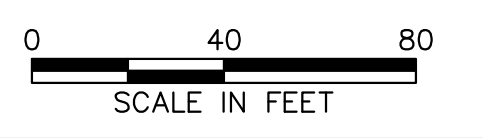
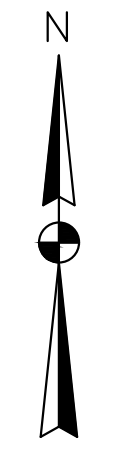
42-11-08
GARDNER, DAVID A.
BOOK 779, PAGE 191
21.09 ACRES

42-11-10
ABRASHOFF, DONALD J.
& DIANA
DEED BOOK 83, PAGE 114

42-11-08
SUNOCO
BOOK 2012, PAGE 208
3.00 ACRES

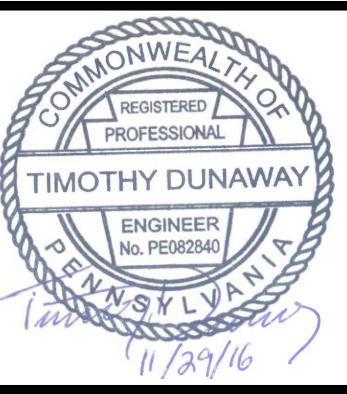
42-11-11.1
ATHERTON, KYLE & JODI K.
DEED BOOK 382, PAGE 812

42-10-31
VAUGHN JR, CHARLES A.
DEED BOOK 476, PAGE 567



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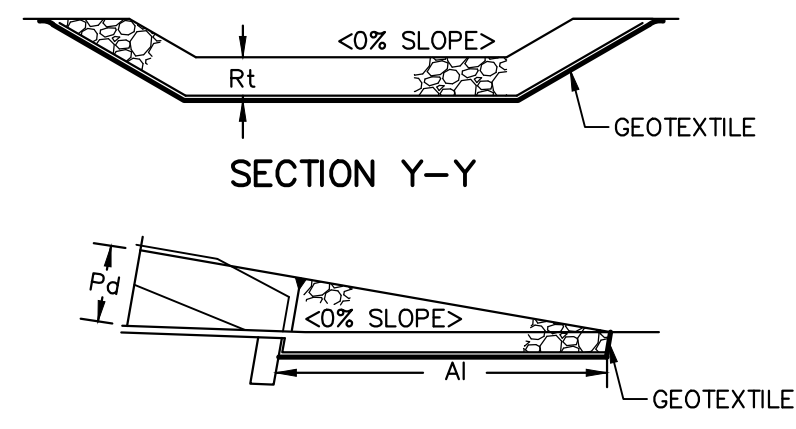
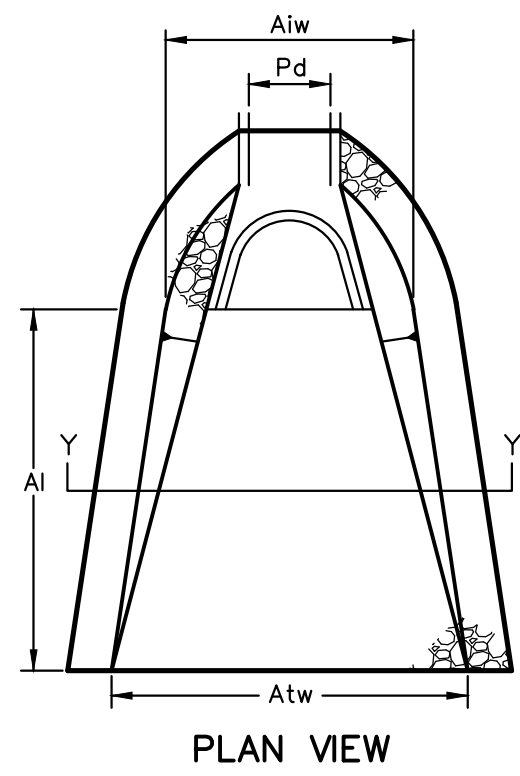
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

PROPOSED SITE LAYOUT & GRADING PLAN

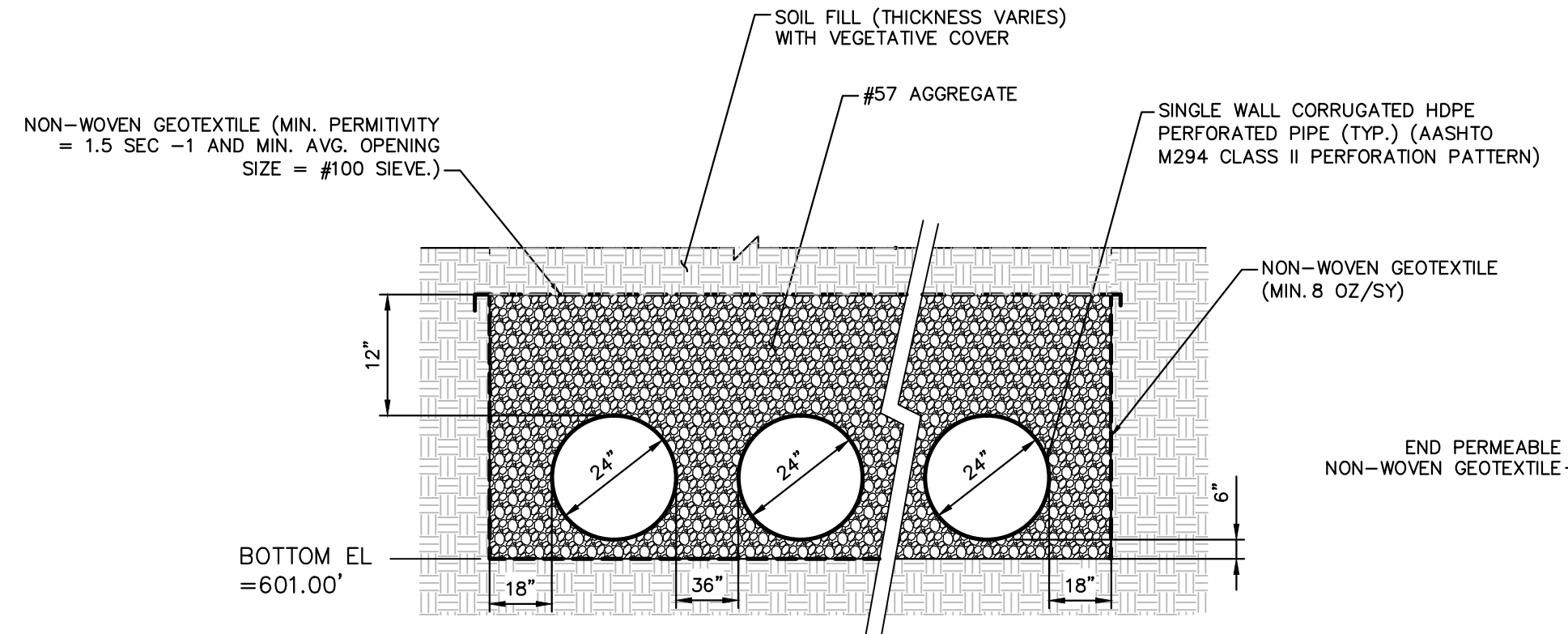
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C-3	
SHEET	3 OF 4



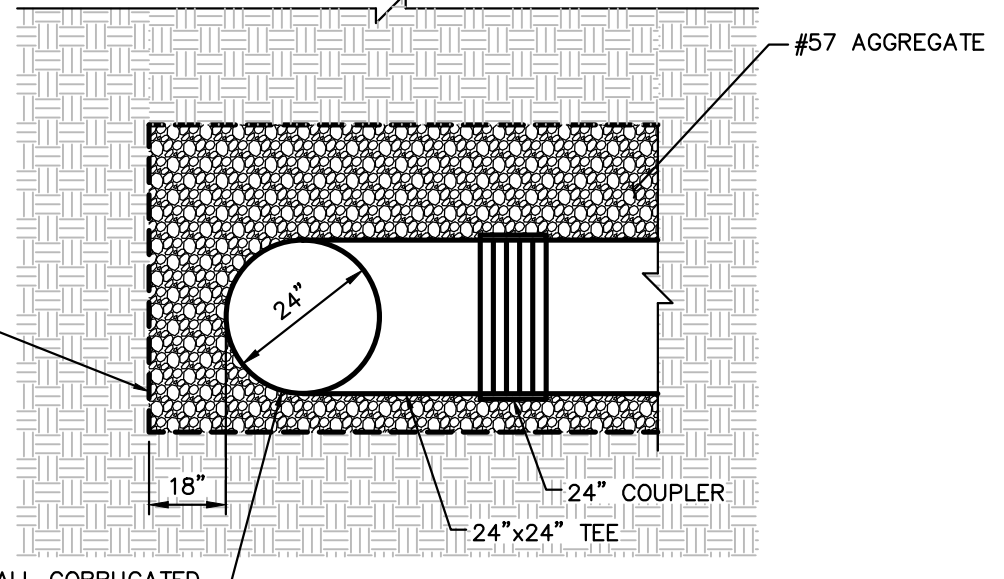
OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP			APRON	
		SIZE (R-)	THICK. Rt (IN)	LENGTH Ai (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
OP-1	12	R-3	9	9	3	13

RIPRAP APRONS AT PIPE OUTLETS WITH FLARED END SECTIONS
NOT TO SCALE

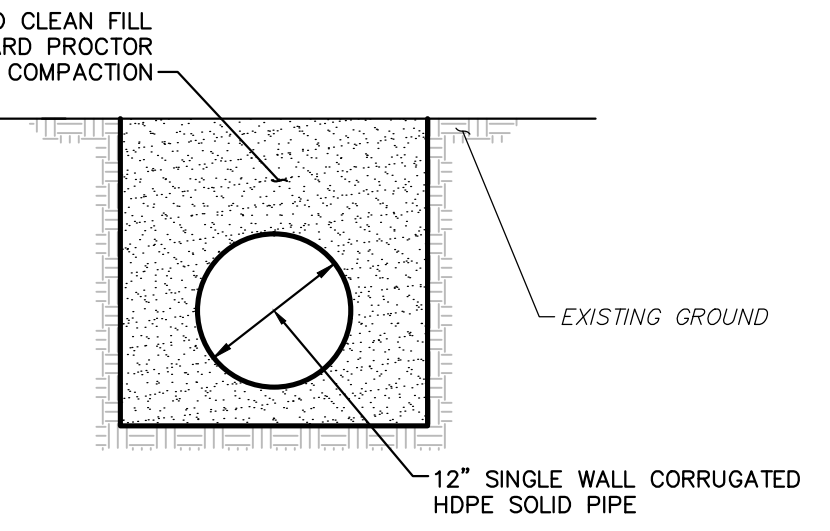
1	3	4
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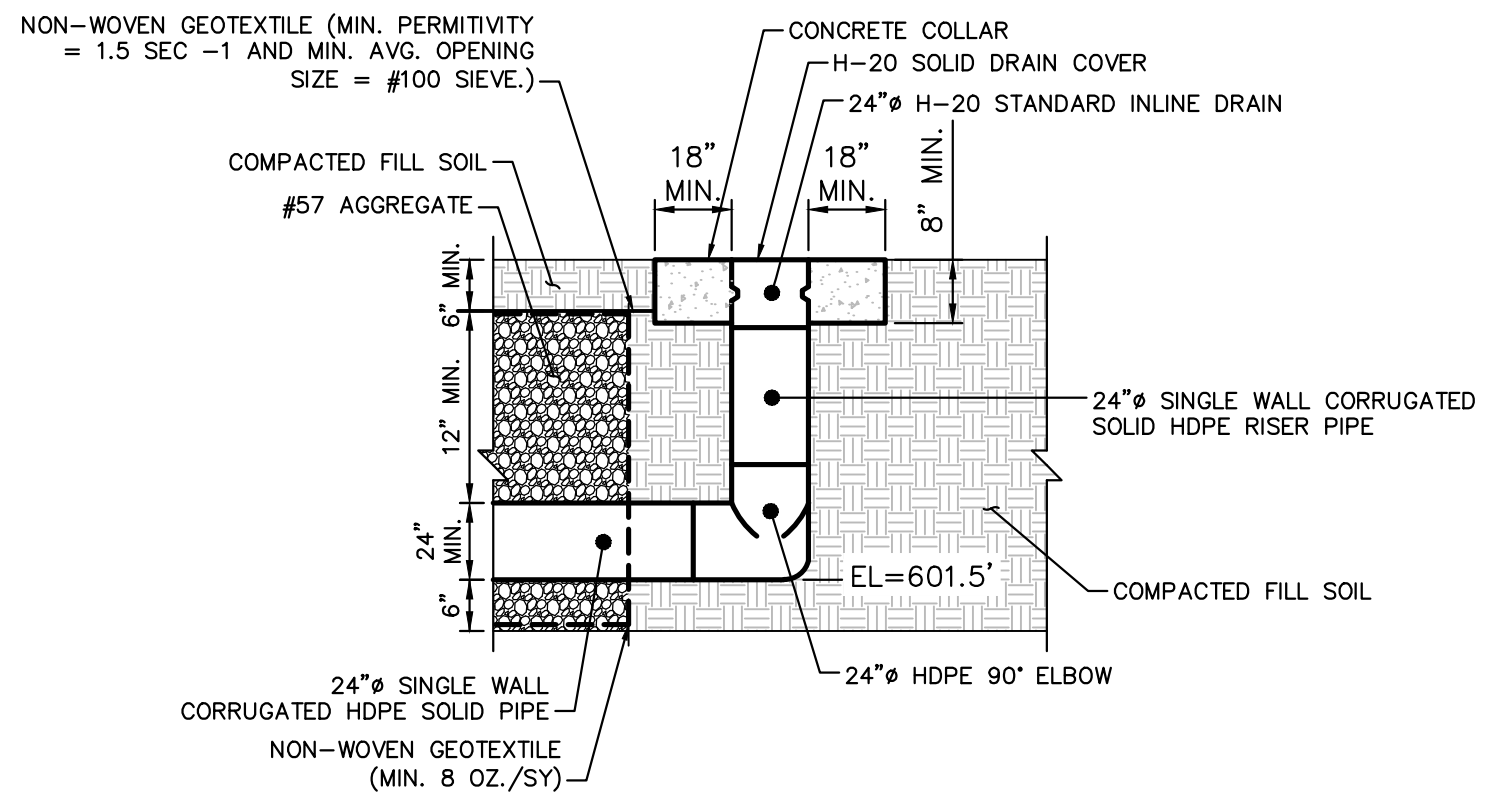
INFILTRATION FILTER-SECTION C
NOT TO SCALE



MANIFOLD SECTION A
NOT TO SCALE

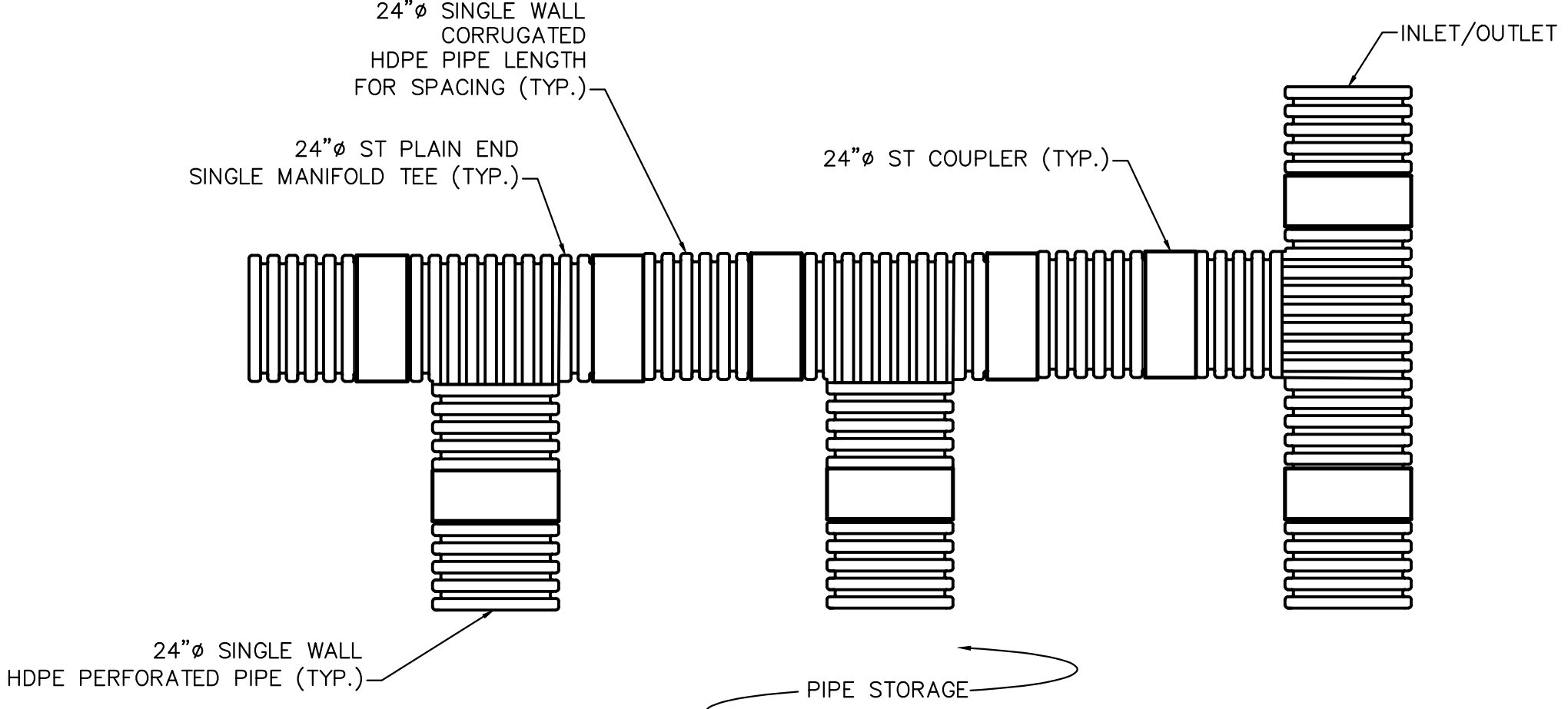


OUTLET SECTION B
NOT TO SCALE



CLEANOUT DETAIL
NOT TO SCALE

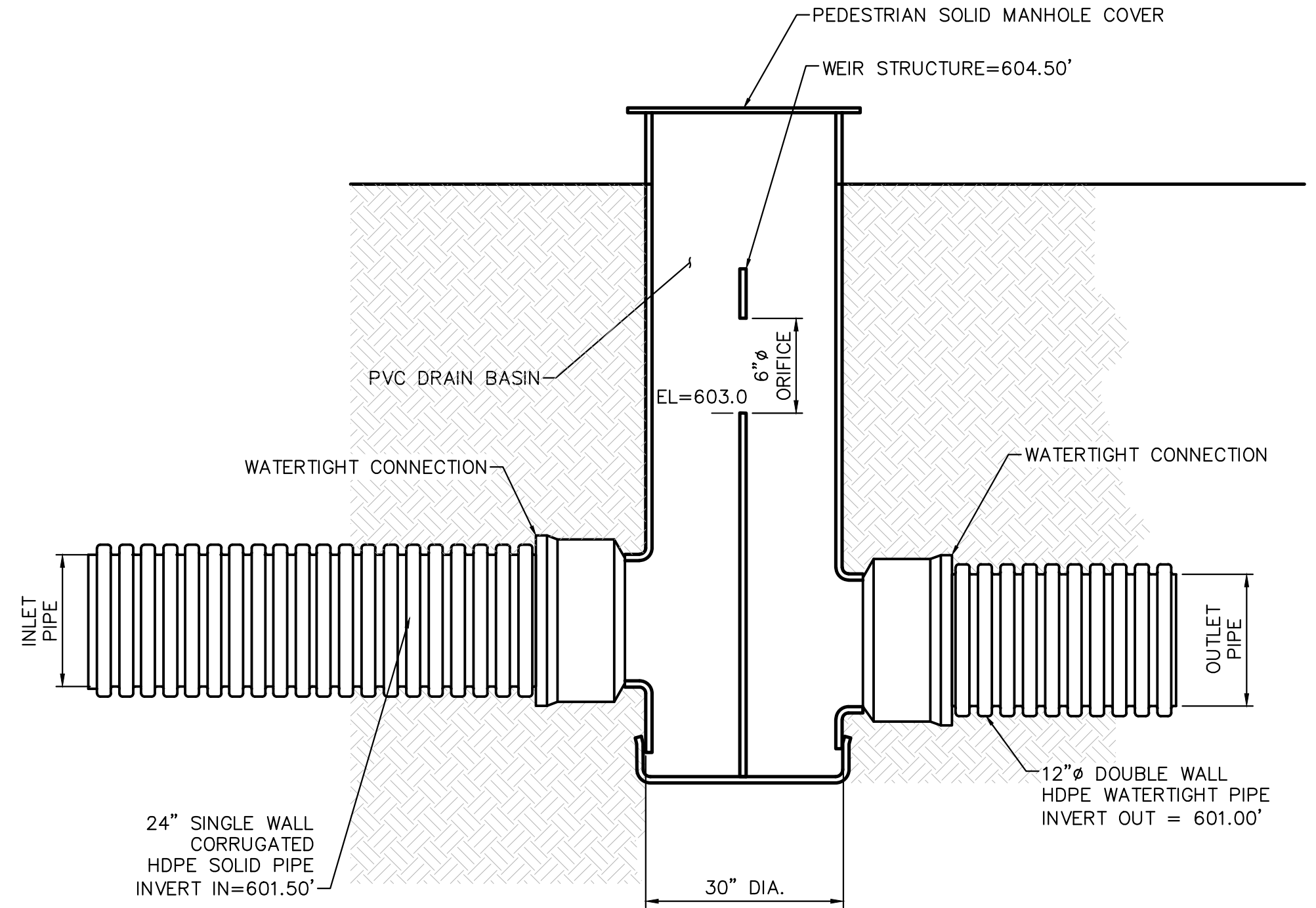
5	2	3
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MANIFOLD DETAIL
NOT TO SCALE

INFILTRATION FILTER
NOT TO SCALE

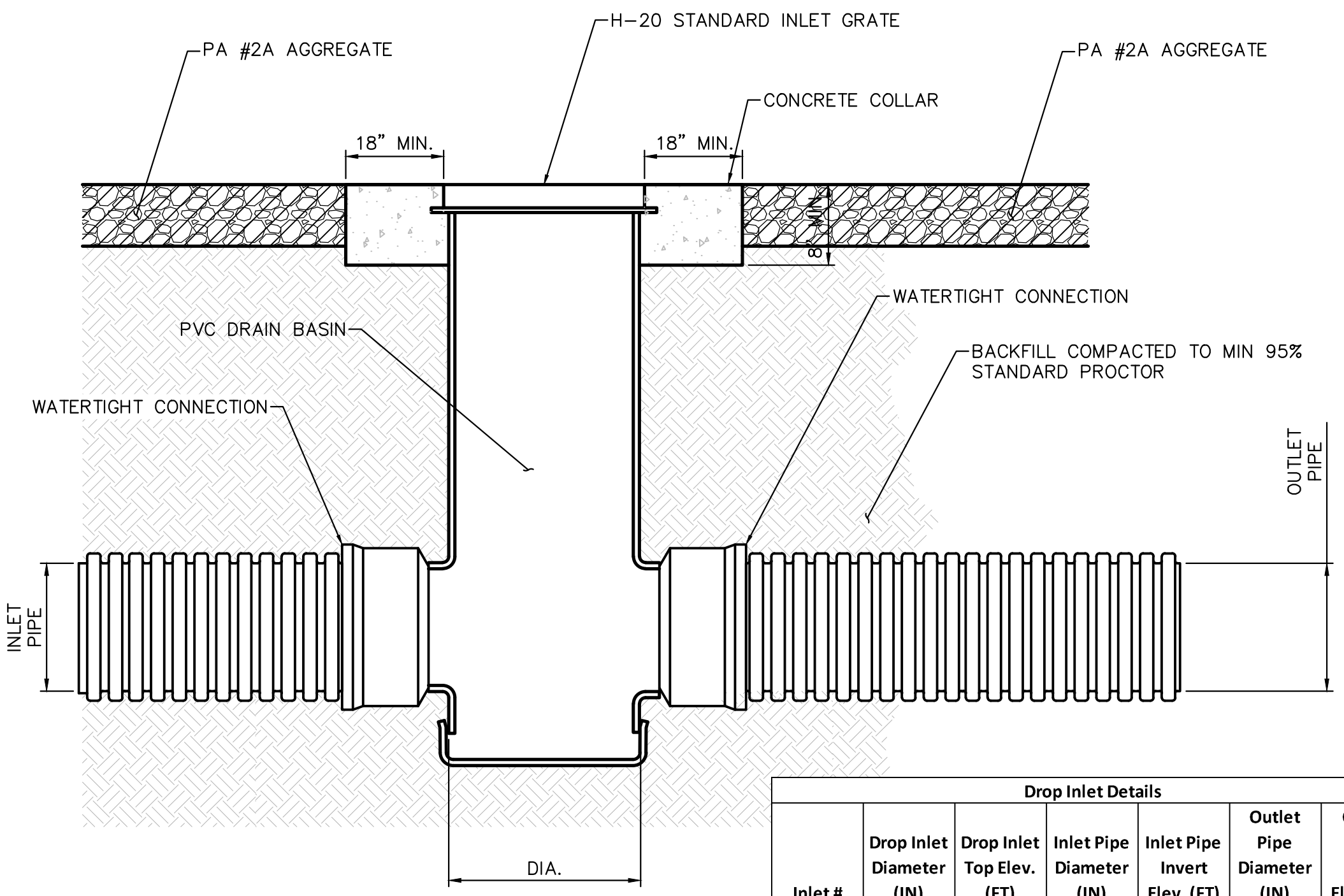
2	3	4
---	---	---



MANHOLE DETAIL
NOT TO SCALE

3	3	4
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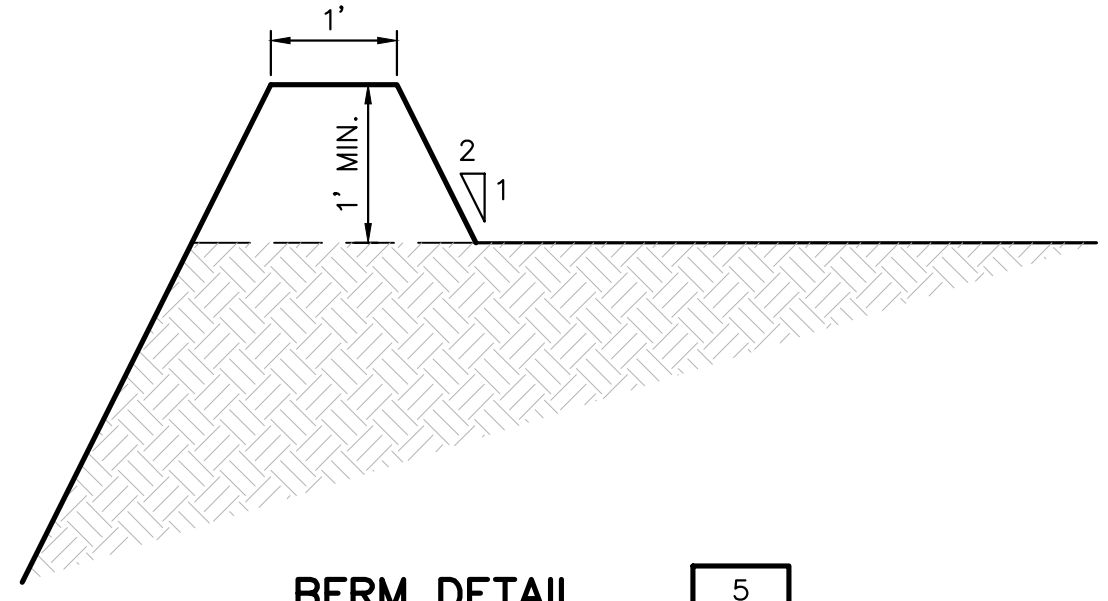
NOTE: THE WEIR STRUCTURE SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE PVC DRAIN BASIN AND SHALL BE PRE-ORDERED AND INSTALLED BY THE MANUFACTURER



DROP INLET DETAIL
NOT TO SCALE

4	3	4
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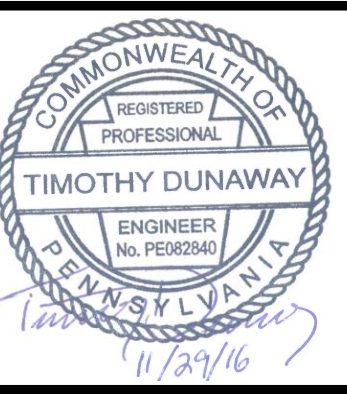
Drop Inlet Details						
Inlet #	Drop Inlet Diameter (IN)	Drop Inlet Top Elev. (FT)	Inlet Pipe Diameter (IN)	Inlet Pipe Invert Elev. (FT)	Outlet Pipe Diameter (IN)	Outlet Pipe Invert Elev. (FT)
1	30	603.86	12	602.25	18	602.25
2	30	605.58	N/A	N/A	12	603.50



BERM DETAIL
NOT TO SCALE

5	3	4
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C-4	
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