

CLARIFICATION NOTES FOR RISER, TRASH RACK AND ANTI-VORTEX DEVICE:

1. RISER SHALL BE A 48-INCH DIA. CONCRETE PRECAST STRUCTURE AS CONSTRUCTED BY HANSON OR APPROVED EQUAL.
2. THE STRUCTURE SHALL BE CONSTRUCTED WITH ALL ORIFICES DENOTED WITHIN THE PROFILE.
3. THE RISER SHALL UTILIZE A TRASH RACK WITH AN ANTI-VORTEX ASSEMBLY. DIMENSIONS ARE SHOWN ON DETAIL 114.07; ACCEPTABLE SUBSTITUTION MATERIALS EXIST WHEN MANUFACTURED BY HANSON, CONTECH, AND OTHER MANUFACTURERS AS APPROVED EQUALS.
4. NOTE 1 ON VDOT DETAIL 114.07 STATES "A HINGED, LOCKABLE ACCESS DOOR SHALL BE PROVIDED ... IF TOTAL WEIGHT EXCEEDS 75 LBS." FOR THIS PROJECT A HINGED, LOCKABLE ACCESS SHALL BE PROVIDED REGARDLESS OF MATERIAL AS THE ORIFICE OPENINGS ARE SMALL DIAMETER.
5. THE ANTI-VORTEX PLATE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, BASED ON THE MATERIALS USED TO CONSTRUCT THE DEVICE. CONSTRUCTION OF THE ANTI-VORTEX PLATE FOR HDPE IS DIFFERENT THAN FOR METAL.

6' (72")

NO. 2 TIES

NO. 4 TIES

24" RCP

6' (72")

8"

8"

6"

12" (24")

2" (24")

24" RCP

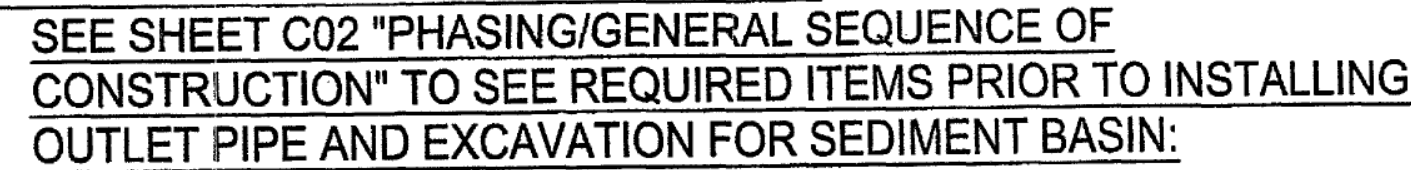
2" (24")

6' (72")

PROVIDE WATERTIGHT CONNECTION BETWEEN CONCRETE AND CONCRETE PIPE

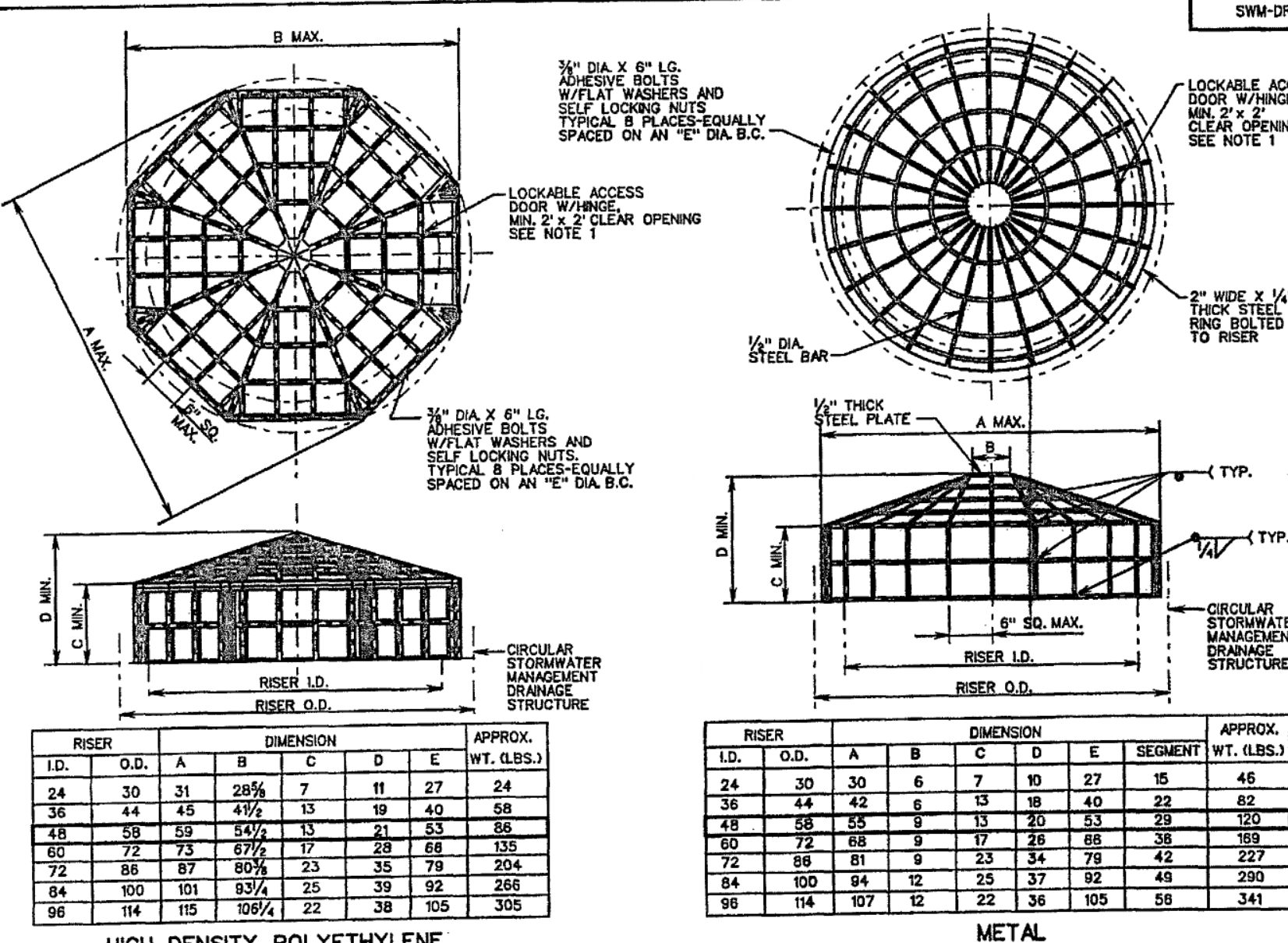
CONCRETE ANTI-SEEP COLLAR

NOT TO SCALE.



SEDIMENT BASIN / SWM POND OUTLET PIPE INSTALLATION NOTES:

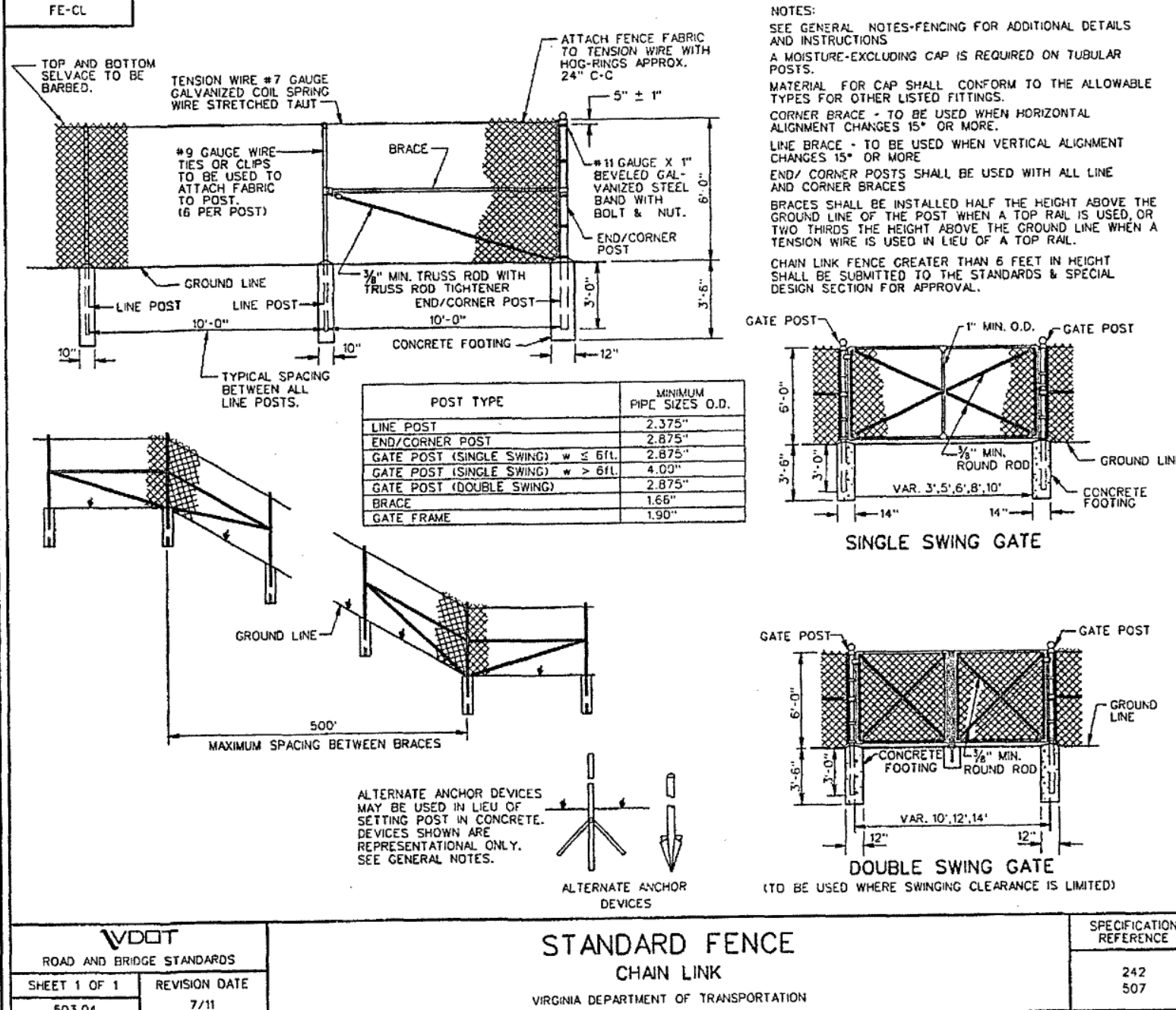
1. PROPOSED PIPE IS BELOW EXISTING GRADE - EXCAVATE AREA TO PLANNED PIPE INVERT. EXCAVATE USING 1.5:1 TO 2:1 SLOPE. COMPACT SOIL MATERIAL PRIOR TO INSTALLING PIPE.
2. INSTALL PIPE AND BACKFILL WITH 4" MAXIMUM LIFTS USING LEAN, CLAY MATERIAL. COMPACT TO 95% STANDARD PROCTOR WITHIN 2% OPTIMUM MOISTURE CONTENT OR AS RECOMMENDED BY A GEOTECHNICAL ENGINEER, BASED ON SITE INVESTIGATION OF BACKFILL MATERIAL. COMPACTION SHALL OCCUR IN THIS MANNER UNTIL EXISTING GRADE IS RE-ESTABLISHED.
3. WIDTH OF TRENCH SHALL BE BASED ON UTILIZING MECHANICAL COMPACTION EQUIPMENT TO COMPACT MATERIAL AROUND PIPE, WITH A MINIMUM OF 6" AT BOTTOM.
4. ONCE EXISTING GRADE IS RE-ESTABLISHED, FILL MATERIAL FOR ENTIRE BERM SHALL BE WORKED IN A CONTINUOUS MANNER, UTILIZING 8-INCH MAXIMUM LIFTS COMPACTED TO 95% STANDARD PROCTOR WITHIN 2% OPTIMUM MOISTURE CONTENT OR AS DIRECTED BY A GEOTECHNICAL ENGINEER PERFORMING A SITE VISIT TO INSPECT THE FILL MATERIAL.
5. OUTLET PIPE IS CLASS III RCP, UTILIZING ASTM C443 GASKET PIPE. SEE DRAINAGE PIPE NOTES ON THIS PAGE.
6. TOP OF BERM SHALL BE OVER CONSTRUCTED TO ALLOW FOR FUTURE SETTLING. ELEVATIONS NOTED ON PLANS.




RISER		DIMENSION					APPROX. WT. (LBS.)
I.D.	O.D.	A	B	C	D	E	
24	30	31	28 5/8	7	11	27	24
36	44	45	4 1/2	13	19	40	58
48	58	59	5 1/2	15	21	53	86
60	72	73	6 7/8	17	28	68	135
72	86	87	8 1/8	2.3	35	79	204
84	100	101	9 3/4	25	39	92	266
96	114	115	10 6/8	22	38	105	305

RISER			DIMENSION					APPROX.
I.D.	O.D.	A	B	C	D	E	SEGMENT	WT. (LBS.)
24	30	30	6	7	10	27	15	46
36	44	42	6	13	18	40	22	82
48	58	55	9	13	20	53	29	120
60	72	68	9	17	28	68	38	169
72	86	81	9	23	34	79	42	220
84	100	94	12	25	37	92	46	290
96	114	107	12	22	36	105	56	341

NOTES:
1. A HINGED, LOCKABLE ACCESS DOOR SHALL BE PROVIDED ON ALL TRASH RACKS IF THE TOTAL WEIGHT OF THE TRASH RACK IS GREATER THAN 75 LBS OR IF THE TRASH RACK IS TO BE PLACED ON A SWM-1 WITH AN "H" DIMENSION GREATER THAN 7'-2".
2. ANTI-VORTEX PLATE IS TO BE USED WHEN SPECIFIED ON THE PLANS. COST OF FURNISHING AND PLACING THE ANTI-VORTEX PLATE IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.



 ROAD AND BRIDGE STANDARDS		STANDARD FENCE CHAIN LINK VIRGINIA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE 242 507
SHEET 1 OF 1 507.04	REVISION DATE 7/11		

VDOT
ROAD AND BRIDGE STANDARDS
REVISION DATE SHEET 4 OF 5



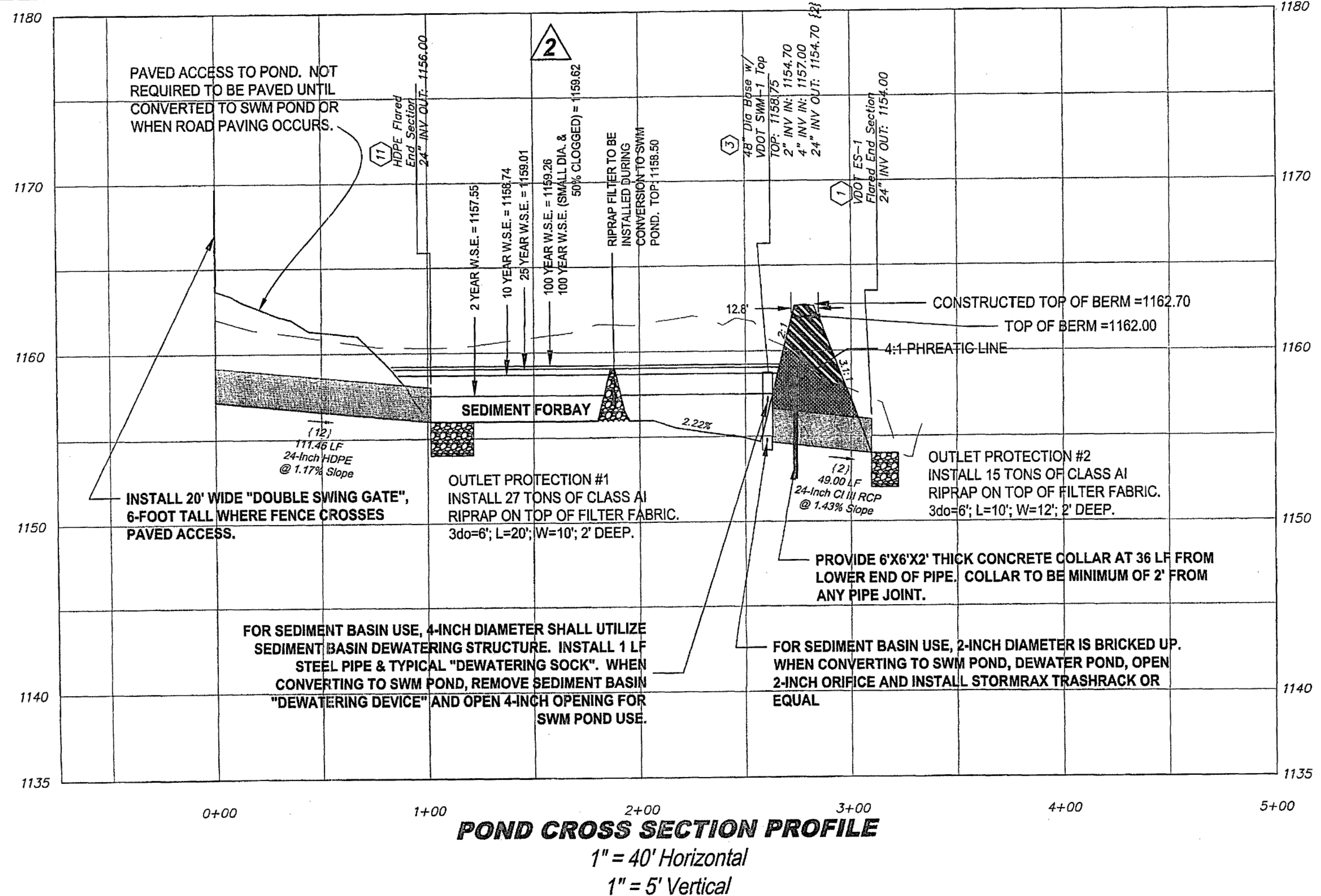
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1. REFER TO PHASING/ GENERAL SEQUENCE OF CONSTRUCTION FOR ITEMS TO BE INSTALLED PRIOR TO INSTALLING OUTLET PIPE AND EXCAVATING THE SEDIMENT BASIN.
2. INSTALL THE OUTLET PIPE AND OUTLET PROTECTION #2 AS PART OF THE SEDIMENT BASIN CONSTRUCTION.
3. CONTRACTOR SHALL CONTINUE COMPACTION TO ELEVATION 1162.7 (THE CONTRACTOR TOP OF BERM) AS DENOTED ON THE PROFILE TO ALLOW FOR ANY SETTLING WITHIN THE EMBANKMENT AREA.
4. WHEN INSTALLING STRUCTURE 3, THE 2-INCH ORIFICE AT THE BOTTOM SHOULD BE BROKE UP FROM THE INSIDE OF THE STRUCTURE AND STONE SHALL BE PLACED ON THE OUTSIDE OF THE STRUCTURE.
5. THE 4-INCH ORIFICE SHALL INCLUDE THE DEWATERING PIPE AS SHOWN IN THE SEDIMENT BASIN SCHEMATIC TO DEWATER THE SEDIMENT BASIN ABOVE THE INVERT ELEVATION.
6. CONTRACTOR SHALL IMMEDIATELY STABILIZE EMBANKMENT AREA ONCE TOP OF BERM HAS BEEN ACHIEVED.
7. THE CONTRACTOR SHALL EXCAVATE THE SEDIMENT BASIN AS SHOWN ON SHEET CO.3. DURING SEDIMENT BASIN PHASE, NO SEDIMENT FOREBAY OR RIPRAP FILTER SHALL BE INSTALLED.
8. THE CONTRACTOR SHALL INSTALL STRUCTURE 11 AND PIPE 12 TO ALLOW FLOW INTO THE SEDIMENT BASIN. OUTLET PROTECTION #1 SHOULD BE INSTALLED PRIOR TO THE UPSTREAM INLET PROTECTIONS ARE REMOVED TO PLACE THE PAVEMENT FOR THE ROADWAY.
9. THE SEDIMENT BASIN SHALL BE DRAINED USING A FILTER BAG AND THE BASIN CLEANSWATER WHEN SEDIMENT REACHES THE CLEANOUT ELEVATION NOTED IN THE SCHEMATIC.
10. CONTRACTOR SHALL PERIODICALLY INSPECT BERM AND SPILLWAY FOR EVIDENCE OF EROSION. IF ANY EROSION IS EVIDENT, ADEQUATE MEASURES SHALL BE APPLIED TO STABILIZE AREA.

CONVERSION TO SWM POND:
CONVERSION FROM SEDIMENT BASIN TO SWM POND SHALL NOT OCCUR UNTIL THE FOLLOWING ITEMS HAVE BEEN ACHIEVED:

- THE ROADWAY HAS ACHIEVED AT LEAST A STONE BASE COVER, OR IS PAVED.
- CONSTRUCTION OF THE HOUSES OF LOTS 4-8 HAS BEEN ACHIEVED TO THE POINT WHERE THE ADJACENT YARDS HAVE BEEN STABILIZED.

1. THE CONTRACTOR SHALL DRAIN THE SEDIMENT BASIN USING A FILTER BAG, EXCAVATE SEDIMENT AND ACHIEVE PLANTED GRADES FOR THE SWM POND.
2. OUTLET PROTECTION #2 SHALL BE CLEANED OR REPLACED AT STRUCTURE 11 TO PROVIDE CLEAN OUTLET PROTECTION.
2. THE CONTRACTOR SHALL REMOVE THE DEWATERING PIPE AT THE 4-INCH ORIFICE AND PROVIDE A CLEAR 4-INCH OPENING AS NOTED ON STRUCTURE 3.
3. THE CONTRACTOR SHALL REMOVE THE STONE OVER THE 2-INCH ORIFICE AND THE BRICKED UP OPENING REMOVED. THE CONTRACTOR SHALL INSTALL THE TRASH RACK ON THE EXTERIOR OF THE 2-INCH OPENING.
4. THE CONTRACTOR SHALL INSURE THAT THE VDOT PG-4 PAVED CHANNEL AND RIPRAP PORTION FROM CHANNEL B IS INSTALLED.
5. THE CONTRACTOR SHALL ENSURE THE 6-FOOT TALL FENCE AROUND THE PERIMETER OF THE POND IS INSTALLED AS SHOWN ON THE PLANS WITH 16-FOOT WIDE, DOUBLE SWIM ACCESS GATE. THE CONTRACTOR SHALL INSURE THE ACCESS FROM LEIGHBRUN DRIVE TO THE SWM POND IS PROVIDED AND PAVED.
6. THE CONTRACTOR SHALL INSTALL THE RIPRAP FILTER TO ESTABLISH A SEDIMENT FOREBAY FOR THE SWM POND. ITEM IS SHOWN ON ADJACENT PROFILE.
7. ALL DISTURBED AREAS SHALL ACHIEVE PERMANENT VEGETATIVE COVER BY PLACING ADEQUATE AMOUNT OF TOPSOIL, AND PLACING PERMANENT SEEDING AND/OR BLANKET MULCH ON SLOPES STEEPER THAN 3:1.



1" = 40' Horizontal
1" = 5' Vertical

