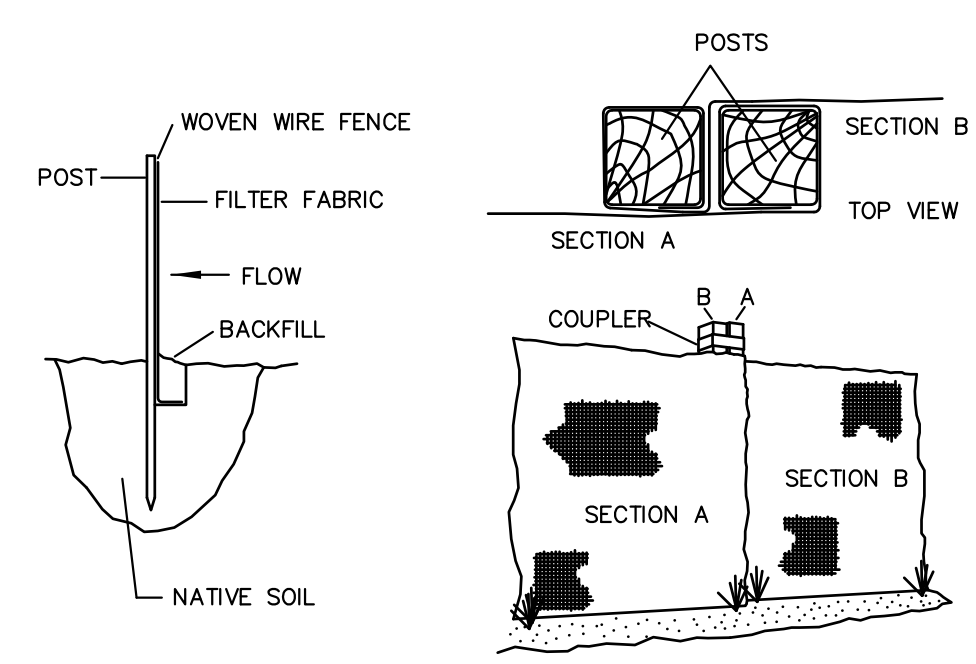


CONSTRUCTION SPECIFICATIONS

- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2"-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE



TOE-IN METHOD **JOINING SECTIONS OF FENCING**

MATERIALS

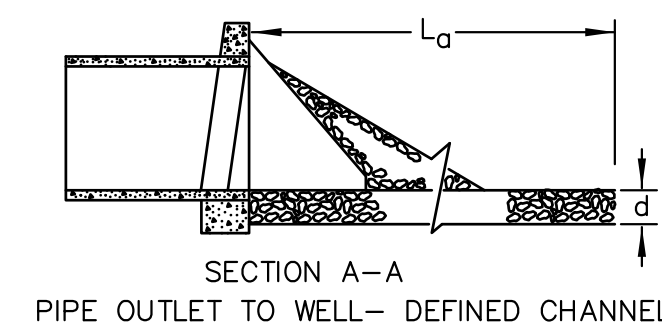
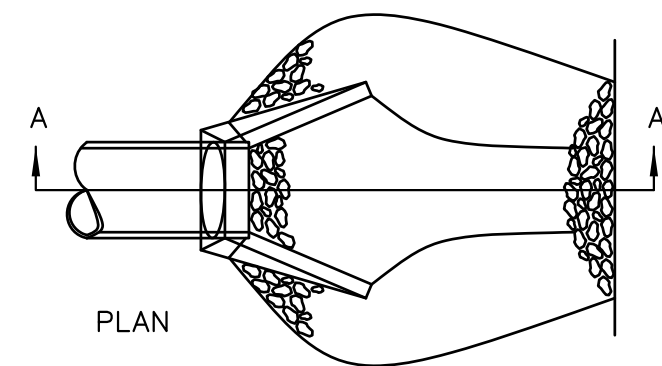
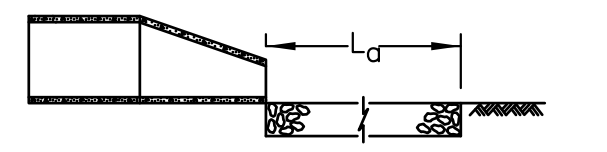
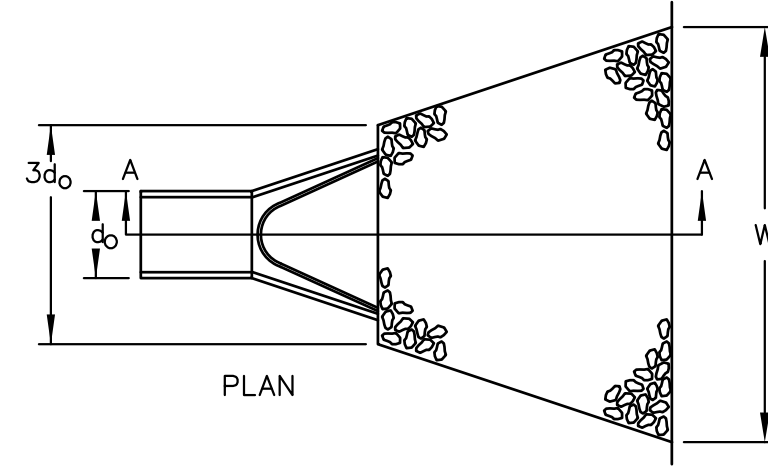
- FENCE POST SHALL BE AT LEAST 36 INCHES LONG. WOOD POSTS SHALL BE OF HARDWOOD WITH A MINIMUM CROSS SECTION AREA OF 3 INCHES. STEEL POSTS SHALL BE STANDARD "T" OF "U" SECTIONS AND SHOULD WEIGH NO LESS THAN ONE (1) POUND PER LINEAR FOOT.
- WOVEN WIRE FENCE SHALL BE AT LEAST 14-GAUGE WITH 2" X 4" OPENINGS.
- FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE BETWEEN 40 AND 80. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- A PREFABRICATED SILT FENCE WITH A PLASTIC NETTING SEWN ON TOP OF THE FILTER FABRIC MAY BE USED. THE PLASTIC NET BACKING SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

INSTALLATION

- EXCAVATE A 4 INCH WIDE X 6 INCH DEEP TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
- UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
- DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
- JOIN SECTIONS AS SHOWN ABOVE.

MAINTENANCE

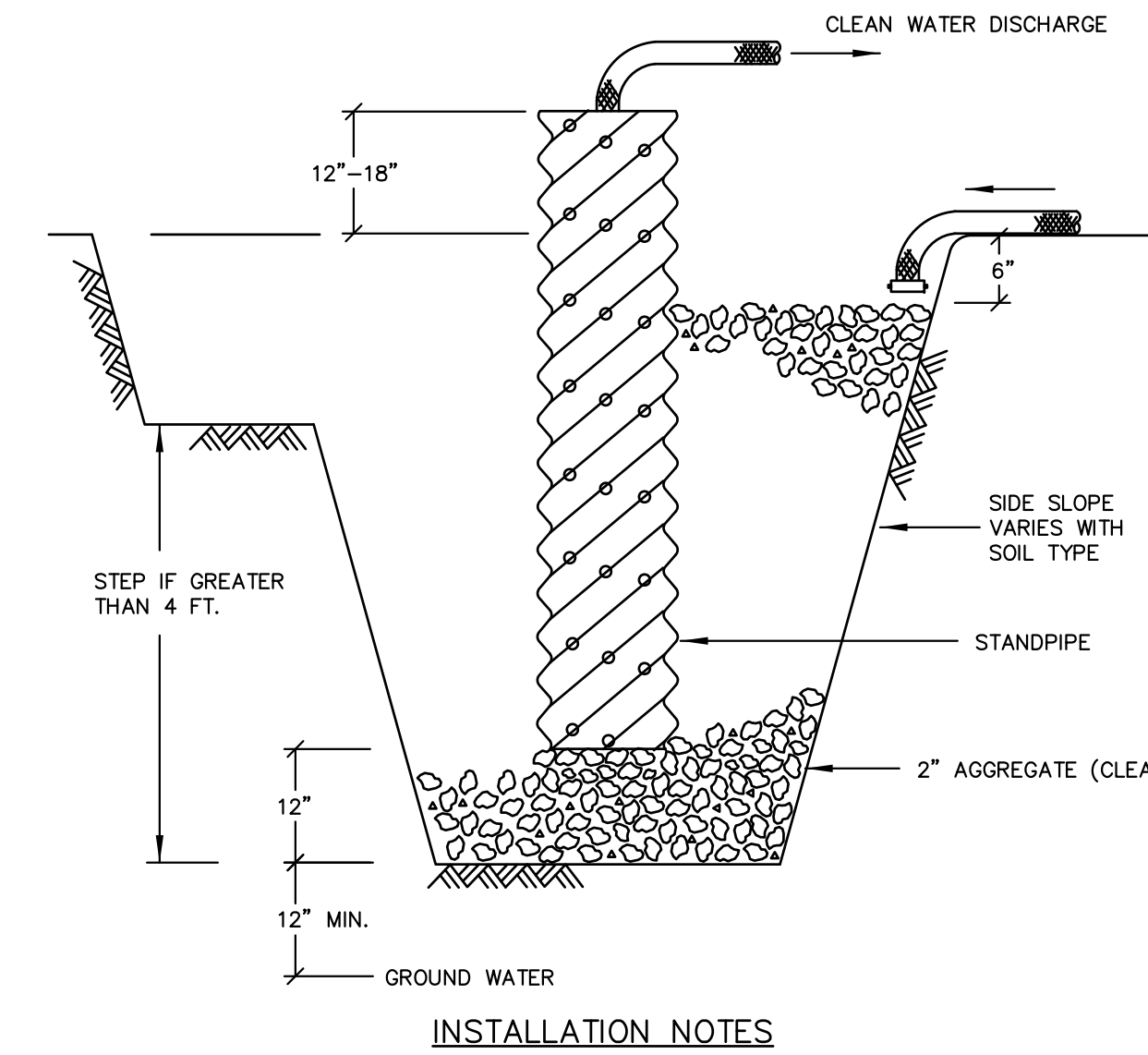
- SILT FENCE SHALL BE INSPECTED AFTER EVERY RUNOFF EVENT. ANY DAMAGE MUST BE REPAIRED IMMEDIATELY.
- SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UPSTREAM SIDE OF THE SILT FENCE WHEN IT ACCUMULATES TO THE EXTENT THAT VISIBLE BULGES DEVELOP IN THE FENCE.
- SILT FENCE SHALL BE REMOVED AFTER VEGETATIVE GROWTH OR OTHER STABILIZATION MEASURES HAVE BEEN ACHIEVED.



- NOTES**
- APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, OR CONCRETE.
 - L₁ IS THE LENGTH OF THE RIPRAP APRON.
 - W IS THE WIDTH OF THE RIP-RAP APRON.
 - $Q = 1.5$ TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6 INCHES.

ENERGY DISSIPATOR
NOT TO SCALE

3



INSTALLATION NOTES

- PIT DIMENSIONS ARE VARIABLE.
- THE STANDPIPE SHOULD BE A PERFORATED 12" TO 24" DIAMETER CORRUGATED METAL, PVC OR HDPE PIPE.
- A BASE OF 2" CLEAN AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH 2" AGGREGATE.
- THE STANDPIPE SHOULD EXTEND 12" - 18" ABOVE THE LIP OF THE PIT.
- IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTER FABRIC BEFORE INSTALLATION. IF DESIRED, 1/4" - 1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTER FABRIC; THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

DEWATERING PIT
NOT TO SCALE

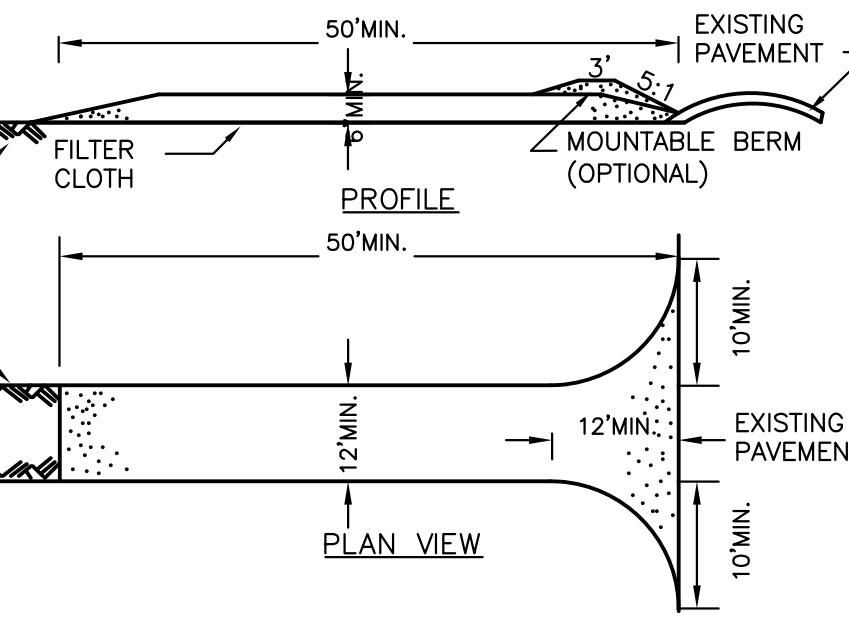
4

STONE & BLOCK DROP INLET PROTECTION
NOT TO SCALE

1

SILT FENCE
NOT TO SCALE

2

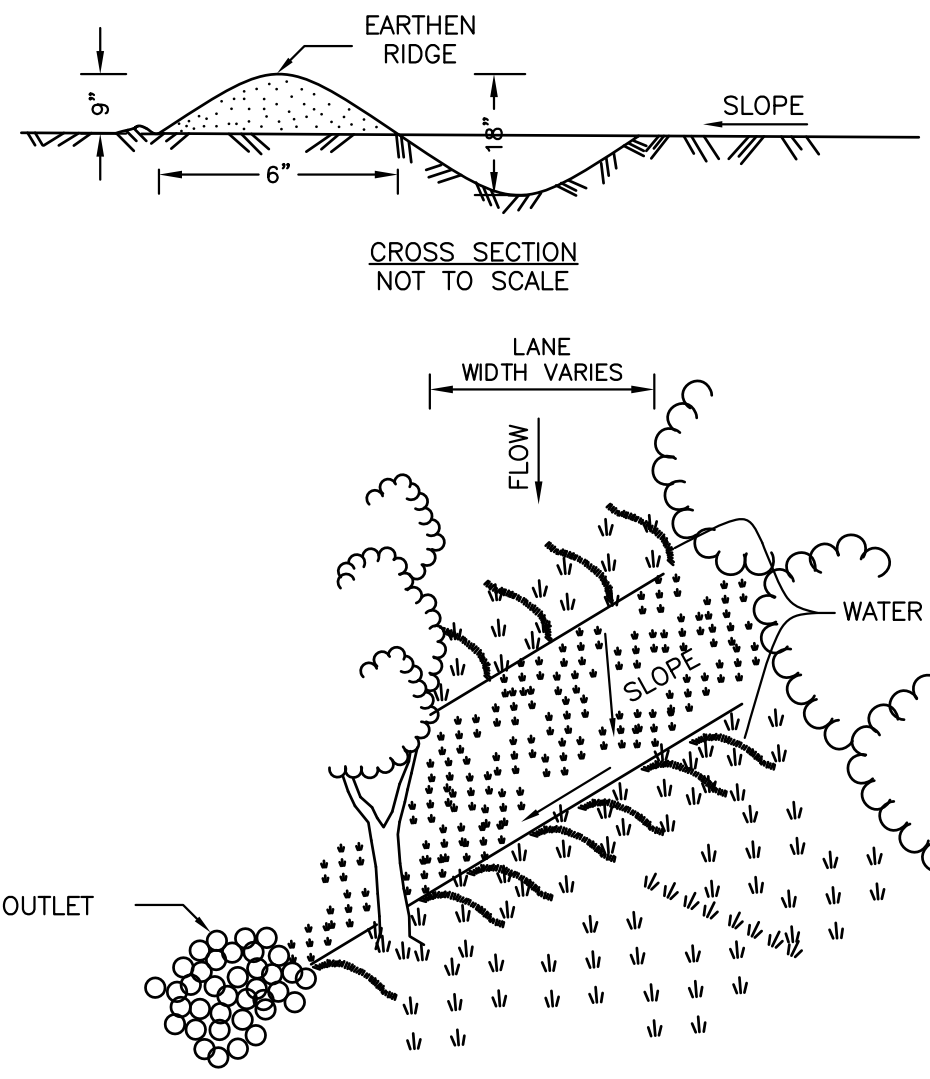


CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

7



CONSTRUCTION SPECIFICATIONS

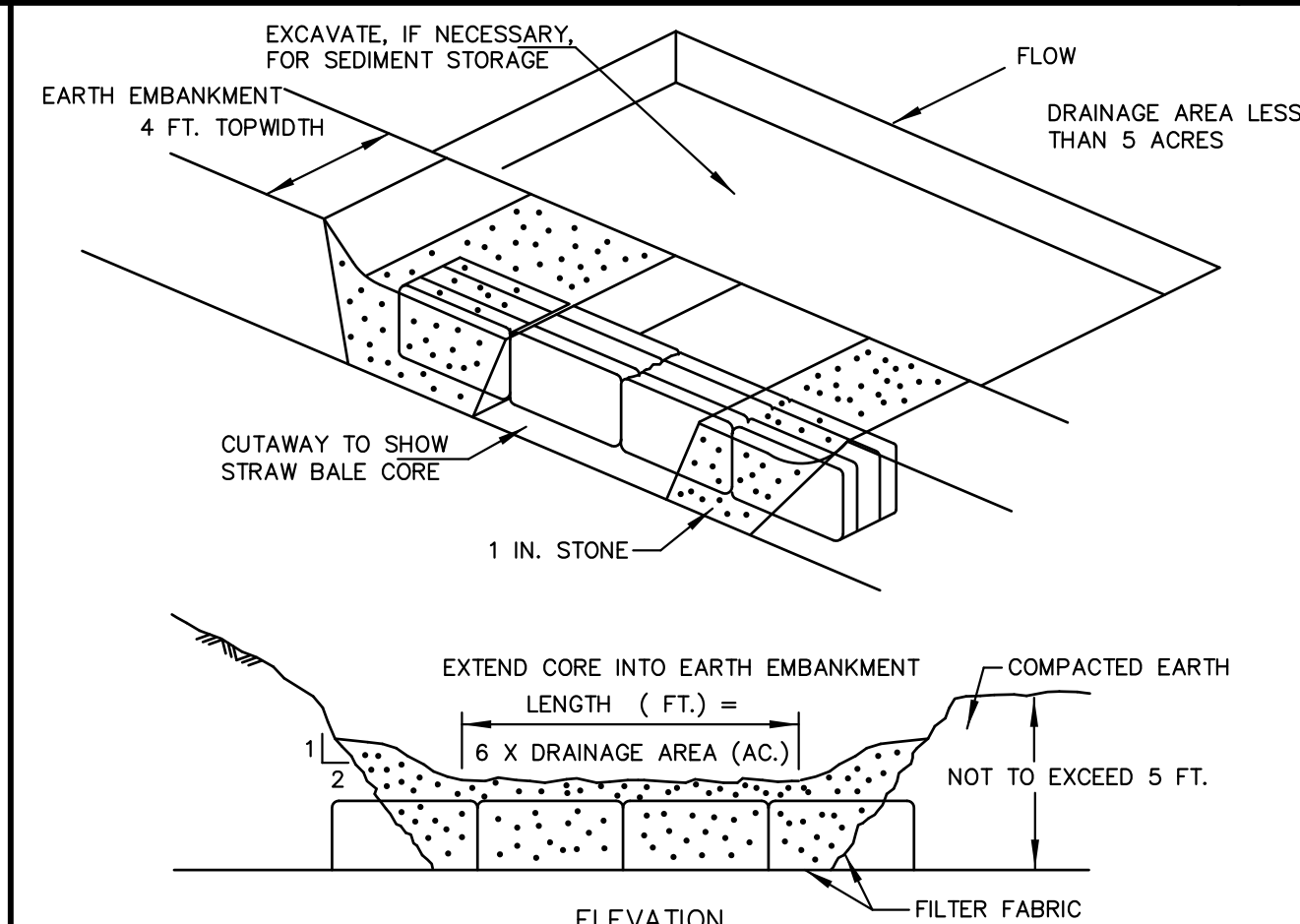
- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
- DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
- TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
- THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
- VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
- PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

WATER BAR
NOT TO SCALE

5

RIPRAP LINED CHANNEL
NOT TO SCALE

6

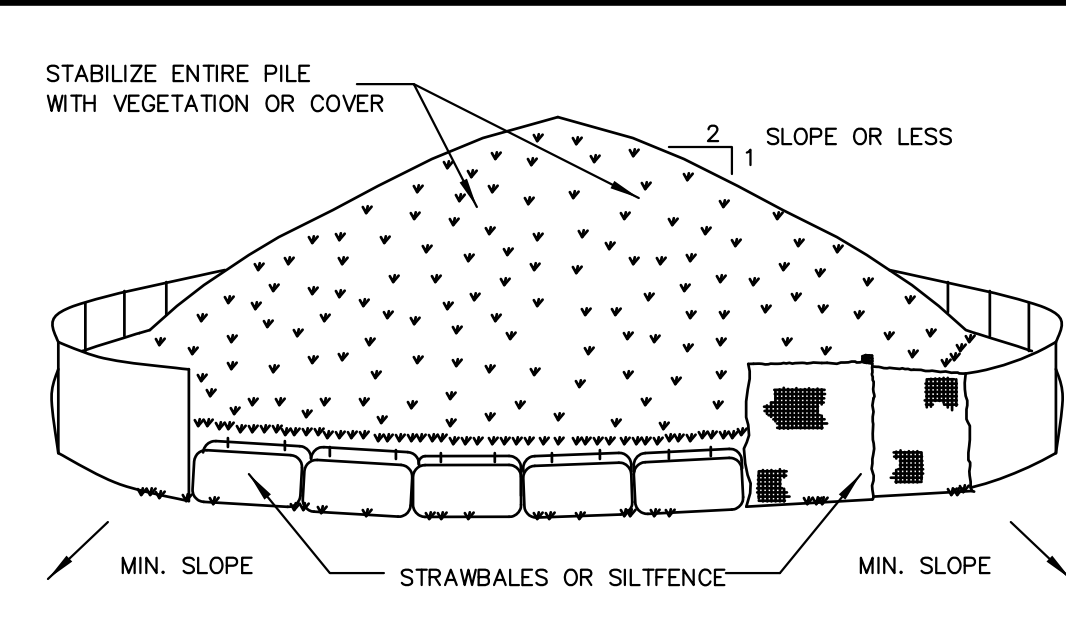


INSTALLATION NOTES

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS WELL.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL AND OTHER QUESTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT AND FILL SLOPES SHALL BE 1 : 2 OR FLATTER.

STONE OUTLET SEDIMENT TRAP
NOT TO SCALE

9



- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILING
NOT TO SCALE

8

NO.	REVISION	DATE
1	Submitted with DEIS	8/03/12
2	Issued as part of DEIS Acceptance	9/06/12

Surveyor: J. Henry Carpenter & Co.
2070 Saw Mill River Road
Yorktown Heights, NY 10598-4108
Tel: (914) 962-2689
Fax: (914) 962-2623

Wetland Consultant: Evans Associates
205 Amity Road
Bethany, CT 06524
Tel: (203) 393-0690
Fax: (203) 393-0196

Architect: Malvanny G2 Architects
1110 112th Avenue NE, Suite 500
Bellevue, WA 98004
Tel: (425) 463-2000
Fax: (425) 463-2002

Applicant: Retail Store Construction Co., Inc.
c/o Breslin Realty Development
500 Old Country Road
Garden City, NY 11560
Tel: (516) 741-7400
Fax: (516) 741-7128

TRC TRC Engineers, Inc.
7 Sylvine Drive
Hawthorne, New York 10532
Tel: (914) 592-4040
Fax: (914) 592-5046
www.trcsolutions.com

UNDER ARTICLE 145 (ENGINEERING), SECTION 2209 (2) OF THE NEW YORK STATE EDUCATION LAW, IT IS UNLAWFUL FOR ANY PERSON TO ALTER ANY ITEM ON THIS DRAWING, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

COSTCO WHOLESALE
U.S. Route 202 / N.Y. Route 35
Yorktown, New York

TITLE: **DETAILS**
(SHEET 4)

SCALE: As Shown
DATE: 11/16/11
DRAWN BY: HGP
CHECKED BY: RPP
PROJECT: 165213
DRAWING NO.: