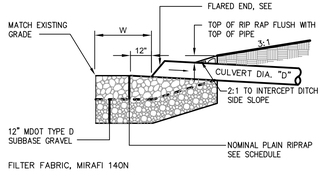
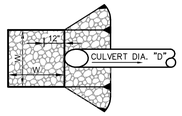
Reviewed for Code Compliance
Inspection Division
Department of Public Services
Date: 02/29/16

SCHEDULE			
CULVERT DIAMETER (D)	WIDTH (W)	STONE d_{50}	RIPRAP THICKNESS
12"	2'	6"	14"
15"	4'	6"	14"
18"	4'	6"	14"
24"	6'	6"	14"
36"	8'	12"	27"
42"	10'	12"	27"
48"	12'	12"	27"

NOTE:
RIPRAP GRADATION AND PLACEMENT – THE RIPRAP GRADATION SHALL BE A WELL-GRADED MIX FROM ABOUT 1.5 TIMES THE D SIZE TO ABOUT 25 PERCENT OF THE D SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPE UPWARD. THE STONES SHOULD BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12 INCHES ONTO THE GEOTEXTILE. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH UNIFORMLY SLOPED SURFACE.



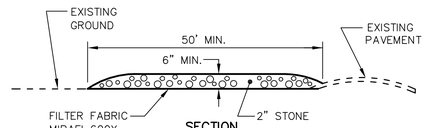
SECTION VIEW



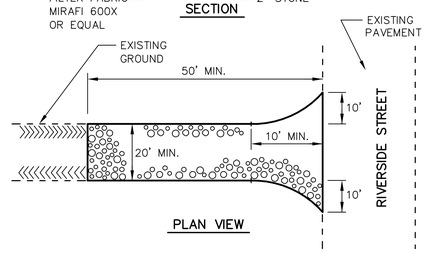
PLAN VIEW

(A) PIPE/CULVERT INLET APRON
N.T.S.

NOTE: CONTRACTOR SHALL ADD STONE TO ENTRANCE AS MUD/SILT MATERIAL ACCUMULATES

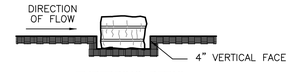


SECTION

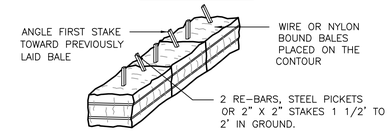


PLAN VIEW

(D) STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



EMBEDDING DETAIL



ANCHORING DETAIL

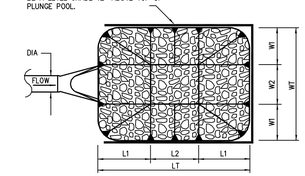
CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale was angled toward previously laid bale to force bales together.
4. Inspection will be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

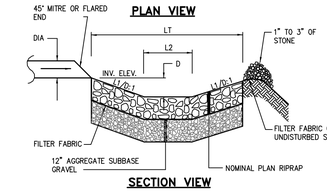
(G) STRAW OR HAY BALE BARRIERS
N.T.S.

CONSTRUCT LEVEL SPREADER AT TOP OF POOL. TOP OF SPREADER SHALL BE A LEVEL GRADE 12" ABOVE TOP OF PLUNGE POOL.

SCHEDULE										
DIA.	L1	L2	LT	W1	W2	WT	D	STONE D50	RIPRAP THICKNESS
24"	4'	2'	10'	2'	2'	6'	2'	6"	27"



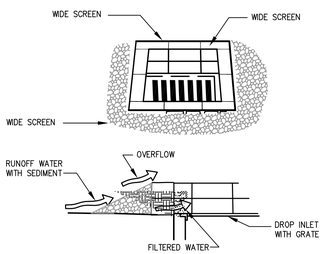
PLAN VIEW



SECTION VIEW

NOTE: LEVEL SPREADER TO BE INSTALLED ON NORTH SIDES OF 18" OUTFALL.

(J) RIPRAP PLUNGE POOL WITH LEVEL LIP SPREADER DETAIL
N.T.S.



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

NOTES:

1.) PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH, AND NO GREATER THAN 24" HIGH.

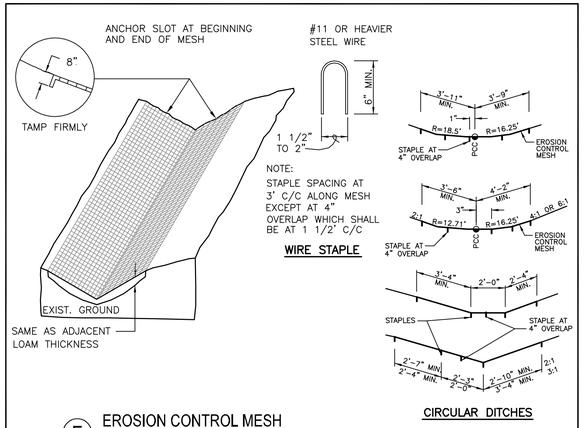
2.)WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.

3.) STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.

4.) IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

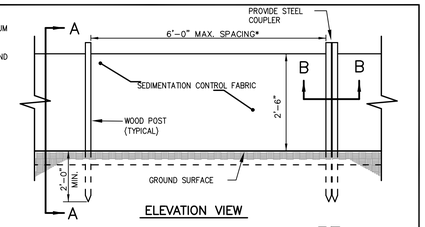
5.)PREMANUFACTURED SILT-SACKS® MAY BE USED AS AN EQUIVALENT TO STONE SEDIMENT BARRIERS.

(B) STONE SEDIMENT BARRIER
N.T.S.

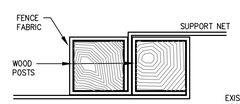


(E) EROSION CONTROL MESH
N.T.S.

*NOTE:
THE SILT FENCE SHOULD HAVE A MAXIMUM STAKING OF 6' UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT A MINIMUM 14 GAUGE AND WITH A MINIMUM MESH SPACING OF 6".

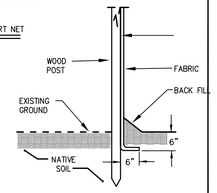


ELEVATION VIEW



SECTION B–B

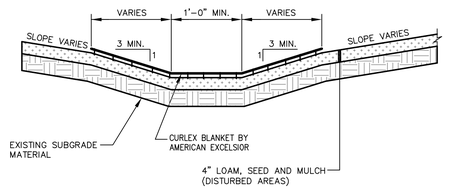
NOTE:
BOTTOM OF SILT FENCE MUST BE TOED INTO GROUND OR NO PAYMENT SHALL BE MADE.



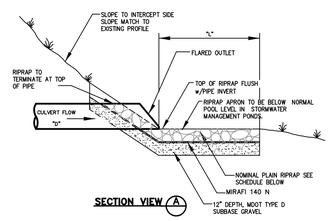
SECTION A–A

(H) SILTATION FENCE DETAIL
N.T.S.

NOTE:
REFER TO GRADING PLAN FOR DITCH WIDTH AND SIDE SLOPES.



(K) VEGETATED DRAINAGE SWALE
N.T.S.



SECTION VIEW (A)

SCHEDULE FOR STORM DRAIN			
CULVERT DIAMETER (D)	WIDTH (W)	STONE d_{50}	RIPRAP THICKNESS
12"	8'	6"	14"
15"	8'	6"	14"
18"	10'	6"	14"
24"	12'	6"	14"
36"	20'	12"	27"
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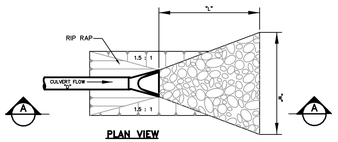
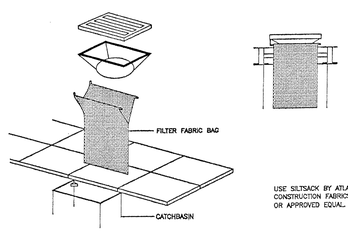


PLAN VIEW

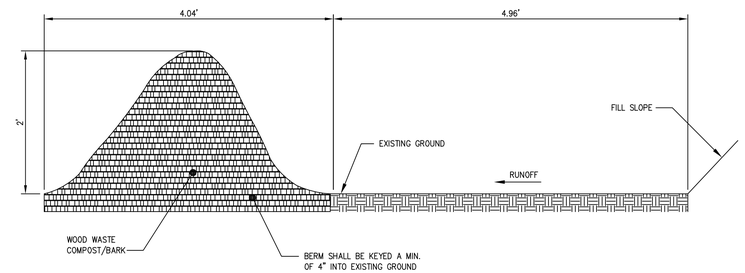
NOTE:
RIPRAP GRADATION AND PLACEMENT – THE RIPRAP GRADATION SHALL BE A WELL-GRADED MIX FROM ABOUT 1.5 TIMES THE D SIZE TO ABOUT 25 PERCENT OF THE D SIZE. THE RIPRAP STONES SHALL BE CAREFULLY PLACED WORKING FROM THE TOE OF THE SLOPE UPWARD. THE STONES SHOULD BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12 INCHES ONTO THE GEOTEXTILE. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH UNIFORMLY SLOPED SURFACE.

(C) PIPE/CULVERT OUTLET APRON
N.T.S.



USE SILTSACK BY ATLANTIC CONSTRUCTION FABRICS, INC. OR APPROVED EQUAL.

(F) TYPICAL FILTER BAG DETAIL
N.T.S.



NOTES:
1. THE WOOD WASTE COMPOST/BARK MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. MOISTURE CONTENT – 30–60%
B. pH – 5.0–8.0
C. SCREEN SIZE – 100% LESS THAN 3", MAX. 70% LESS THAN 1"
D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION
F. NO STONES LARGER THAN 2" IN DIAMETER

2. THE COMPOST BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.

3. THE WOOD WASTE COMPOST/BARK FILTER BERM MAY BE USED IN LIEU OF SILTATION FENCE, AT THE TOE OF SHALLOW SLOPES, ON FROZEN GROUND, LEDGE OUT CROPS, VERY ROOTED FORESTED AREA OR AT THE EDGE OF GRAVEL PARKING AREAS.

4. BERMS SHALL REMAIN IN PLACE UNTIL UPSTREAM AREA IS COMPLETED OR 70% CATCH OF VEGETATION IS ATTAINED. BERMS SHALL BE REMOVED BY SPREADING SUCH THAT THE NATIVE EARTH CAN BE SEEN BELOW.

(I) WOOD WASTE COMPOST/BARK FILTER BERM DETAIL
N.T.S.

REV	DATE	DESCRIPTION
3	12.09.15	RELEASED FOR CONSTRUCTION - FINAL PLANS TO CITY
2	07.17.15	REVISED SUBMISSION TO CITY
1	06.12.15	AMENDED SITE PLAN SUBMISSION

REVISIONS

STATE OF MAINE
STEPHEN R. BUSHEY
LICENSED
PROFESSIONAL ENGINEER
12/11/15
P.E. STEPHEN BUSHEY
LIC. #7429

PROJECT
SECOND TEE CONDOMINIUM ASSOCIATION
BUSINESS PARK EXPANSION

SHEET TITLE
EROSION CONTROL DETAILS

CLIENT
1039 RIVERSIDE LLC

FST 100 YEARS
FAY, SPOFFORD & THORNDIKE
ENGINEERS · PLANNERS · SCIENTISTS
778 MAIN ST, SUITE 8, SOUTH PORTLAND, ME 04106

DRAWN:	DED	DATE:	MAY 2015
DESIGNED:	SRB	SCALE:	AS NOTED
CHECKED:	SRB	JOB NO.	SP-M164
FILE NAME:	SP-M168 DETAILS		
SHEET	C-10		

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