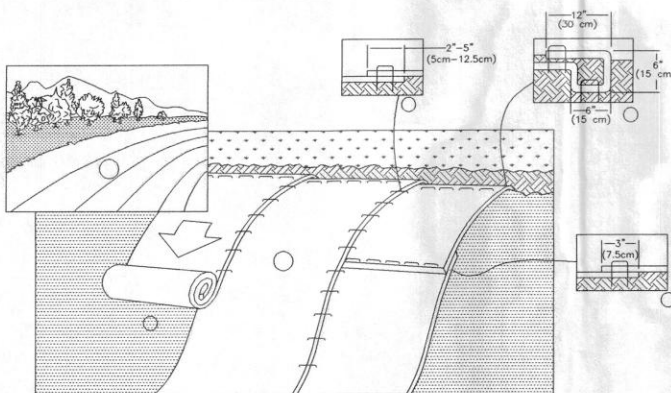


PEAK ELEV.	BIOFILTER 1	BIOFILTER 2
1-YR	195.73	190.14
10-YR	195.92	190.66
100-YR	196.06	191.01

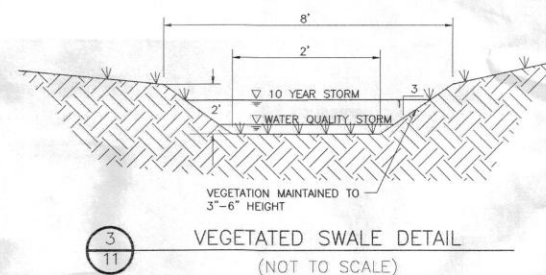
**1**  
**11** BIORETENTION FILTER DETAIL  
(NOT TO SCALE)  
(NYSDEC STORMWATER DESIGN MANUAL TYPE F-5)

- NOTES:
1. ALL DRAINAGE AREAS TO A BIORETENTION FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS, MULCH OR PLANTINGS.
  2. AMENDED SOIL WILL ONLY BE PERMITTED WITH A VALID SOIL ANALYSIS REPORT. NO AMENDED SOIL SHALL BE ALLOWED ON THE SIDE SLOPES.  
AMENDED SOIL COMPOSITION: 85% MEDIUM SAND  
13% COMPOST MATERIAL  
2% MIN ORGANIC SOIL (i.e. PEAT)
  3. INSTALL WIRE SCREENING AROUND ALL OUTLET OPENINGS TO PREVENT LOSS OF MULCH.
  4. ONLY SMALL MATURING TREES ARE ALLOWED TO BE PLANTED IN THE AMENDED SOILS.
  5. FILTER SYSTEM SHALL REMAIN 'OFF-LINE' UNTIL THE SITE IS STABILIZED AND APPROVED BY THE DESIGN ENGINEER.
  6. DURING CONSTRUCTION, ALL SLOPES IN THE FILTER AREA SHALL BE PROTECTED BY EROSION CONTROL MATTING AND SEEDED IMMEDIATELY AFTER THE COMPLETION OF GRADING.
  7. VEGETATION SHALL BE PLANTED IN A RANDOM NATURAL ORDER WITH TREES 10'-20' O.C. AND SHRUBS 5'-10' O.C. SEE PLAN VIEW AND PLANTING SCHEDULE FOR SPECIES AND ORIENTATION. SEE LANDSCAPING PLAN SHEET OF THIS SET FOR PLANTING SCHEDULE.

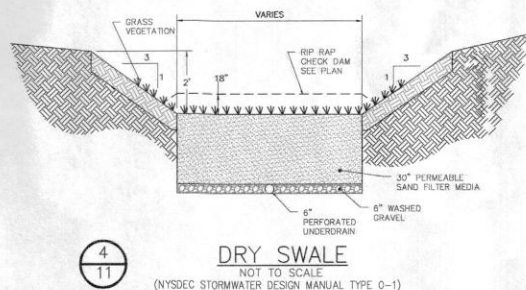


- NOTES:
1. EROSION BLANKET TO BE FROM NORTH AMERICAN GREEN OR APPROVED EQUAL.
  2. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
  3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6\"

**2**  
**11** STEEP SLOPE EROSION MATTING  
NOT TO SCALE



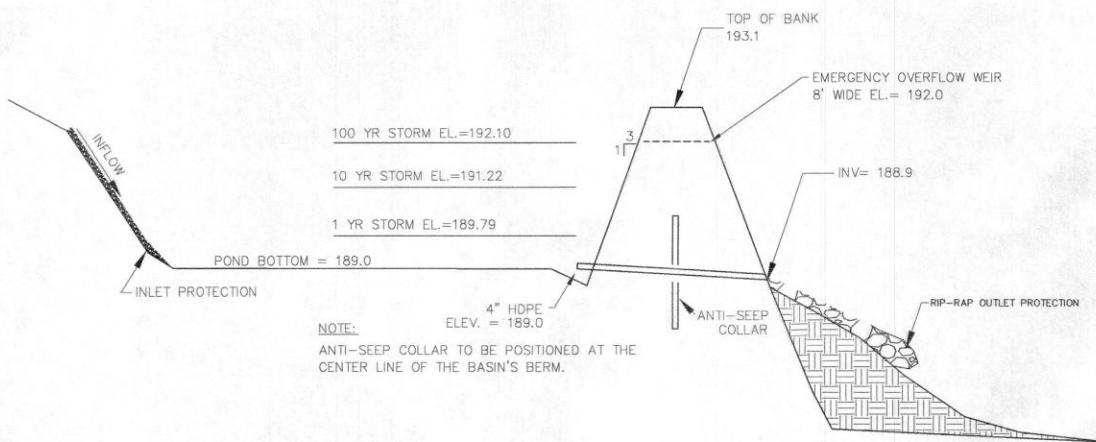
**3**  
**11** VEGETATED SWALE DETAIL  
(NOT TO SCALE)



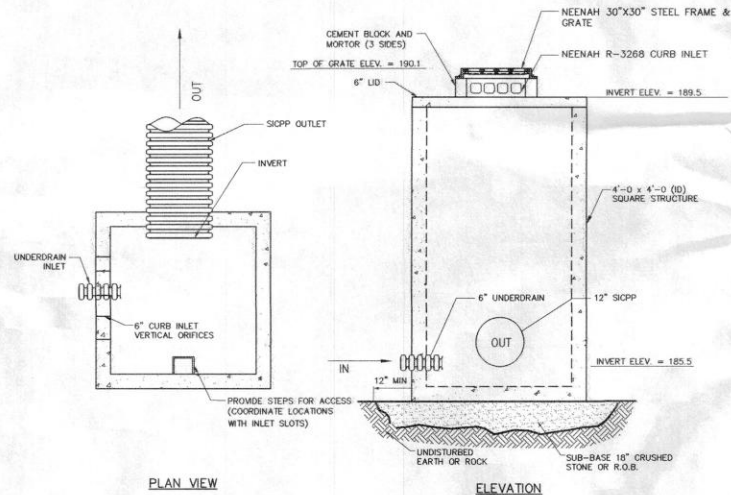
**4**  
**11** DRY SWALE  
NOT TO SCALE  
(NYSDEC STORMWATER DESIGN MANUAL TYPE O-1)

- NOTES:
1. DISTURBED AREAS SHALL BE PLANTED WITH ENVIRONMENTAL SEED MIX.
  2. VEGETATION SHALL BE MAINTAINED AT 6\"
  3. ALL TREES, BRUSH, STUMPS AND OTHER OBSTRUCTIONS SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTION OF THE SWALE.
  4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO MEET THE CROSS SECTION SHOWN ABOVE AND SHALL BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES THAT MAY IMPEDE FLOW.

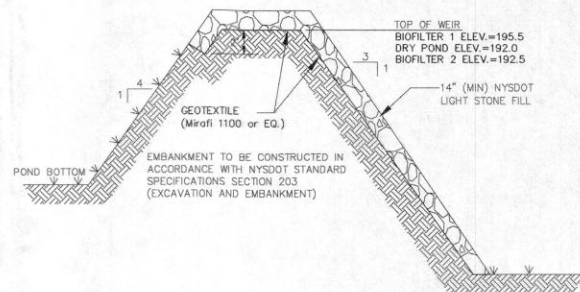
NOTE: 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK TO LOCATE ALL UNDERGROUND UTILITIES. 1-800-962-7962



**5**  
**11** POND 1 PROFILE  
NOT TO SCALE



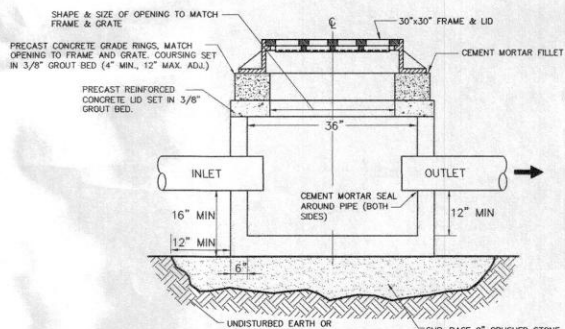
**6**  
**11** POND OUTLET STRUCTURE DETAIL (OCS-1)  
(NOT TO SCALE)



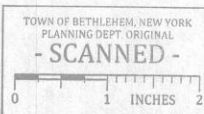
**7**  
**11** EARTH BERM OVERFLOW WEIR DETAIL  
(NOT TO SCALE)

SEEDING MIX		
PRIMARY SEED MIX (ERNMX-113):		
AMT. BY WEIGHT	SPECIES OR VARIETY	SEED RATE
25%	CREeping RED FESCUE	3-5 LB PER 1,000 SF
25%	ANNUAL RYE GRASS	
25%	PERENNIAL RYE 'AMAZING GS'	
25%	PERENNIAL RYE 'GRAND SLAM'	
100%		
TEMPORARY COVER SEED MIX (ERNMX-104):		
AMT. BY WEIGHT	SPECIES OR VARIETY	SEED RATE
50%	ANNUAL RYE GRASS	50 LB PER ACRE
50%	PERENNIAL RYE 'BLACKCAT II'	
100%		

NOTE: MIX BY ERNST SEED MIX OR APPROVED EQUAL



**8**  
**11** 4' I.D. CONCRETE MANHOLE  
(NOT TO SCALE)



PLANNING BOARD  
TOWN OF BETHLEHEM  
ALBANY COUNTY, NEW YORK  
By direction of the Chairman,  
These drawings are hereby approved.  
See sheet(s) 3  
for date and signature.

ALBANY COUNTY DEPARTMENT OF HEALTH

TOWN OF BETHLEHEM PLANNING BOARD

NO.	DATE	REVISIONS	BY
4	11/12/15	REVISED TO FINAL PLAN SET	CDL
3	9/8/15	REVISED PER TOWN COMMENTS & GEOTECH REVIEW	CDL
2	5/21/15	REVISED PER TOWN & TDE COMMENTS	CDL
1	3/2/15	REVISION PER MEETING WITH TOWN & TDE	CDL

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STORM DETAILS		WINDSOR DEVELOPMENT GROUP, INC.	
1319 NEW SCOTLAND ROAD		TOWN OF BETHLEHEM	
COUNTY OF ALBANY		STATE OF NEW YORK	
DATE: JANUARY 23, 2015	CHECKED BY: D.F.I.	JOB NO. 13-076	SCALE: AS SHOWN
DRAWN BY: M.S.H.	CADD FILE: 13076 DETAILS	SHEET 11 OF 14	