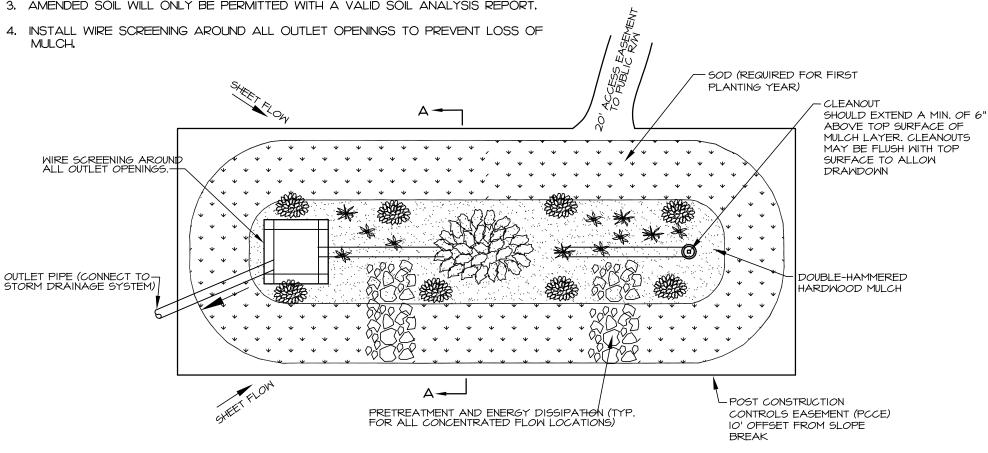
- I. ALL BIORETENTION SHALL HAVE A MINIMUM 20 FOOT ACCESS EASEMENT CONNECTING TO A DEDICATED PUBLIC RIGHT OF WAY, ACCESS ROAD SHALL HAVE MIN. 12' STABILIZED WIDTH, MAX, LONG, GRADE OF 15%, MAX, CROSS-SLOPE 5%.
- 2. ALL DRAINAGE AREAS TO A BIORETENTION FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS, MULCH OR PLANTINGS.





PLAN

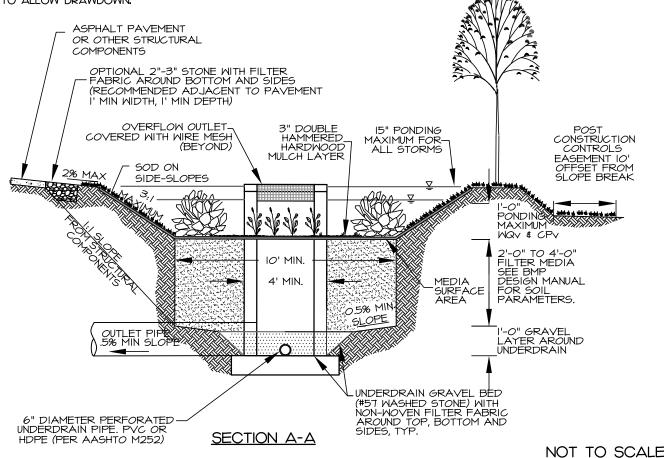
NOT TO SCALE



BIORETENTION PLAN BMP FIG. 4.1.2

STD. NO. REV.

- I. ALL BIORETENTION FACILITIES SHALL HAVE A MINIMUM 20 FOOT ACCESS EASEMENT CONNECTING TO A DEDICATED PUBLIC RIGHT OF WAY. ACCESS ROAD SHALL HAVE MIN. 12' STABILIZED WIDTH, MAX. LONG. GRADE OF 15%, MAX, CROSS-SLOPE 5%.
- ALL DRAINAGE AREAS TO A BIORETENTION FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS, MULCH OR PLANTINGS.
- 3. AMENDED SOIL WILL ONLY BE PERMITTED WITH A VALID SOIL ANALYSIS REPORT, NO AMENDED SOIL SHALL BE ALLOWED ON THE SIDE SLOPES.
- 4. INSTALL WIRE SCREENING AROUND ALL OUTLET OPENINGS TO PREVENT LOSS OF MULCH,
- 5. PVC UNDERDRAIN PIPE SHOULD HAVE 3/8" PERFORATIONS SPACED AT 6" CENTERS, MIN. 4 HOLES PER ROW. MAX SPACING OF UNDERDRAIN PIPE IS 10 FEET ON CENTER. HDPE SHALL ADHERE TO AASHTO M252 SPECS.
- 6. UNDERDRAIN CLEANOUTS SHOULD EXTEND A MIN, OF 6" ABOVE TOP SURFACE OF MULCH LAYER, CLEANOUTS MAY BE FLUSH WITH TOP OF SURFACE TO ALLOW DRAWDOWN.
- 7. ONLY SMALL MATURING TREES ARE ALLOWED TO BE PLANTED IN THE AMENDED SOILS,

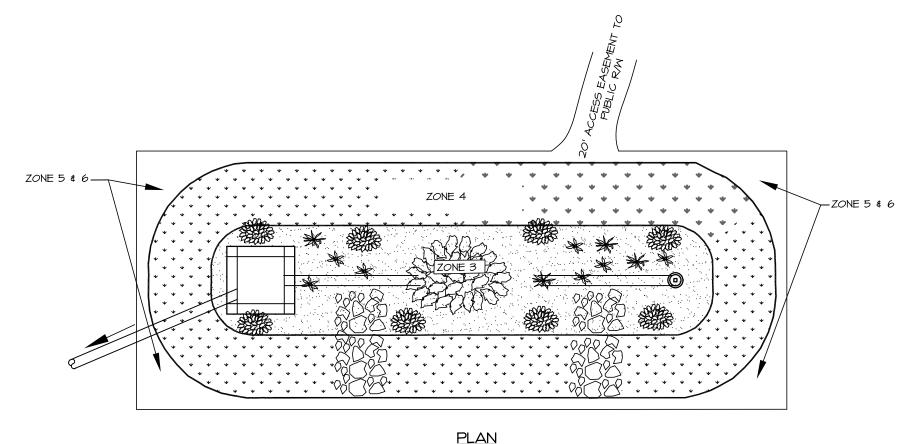




BIORETENTION CROSS-SECTION BMP FIG. 4.1.3

STD. NO. REV.

- I. PLANTING ZONES AND PLANT SELECTION PER THE BMP DESIGN MANUAL,
- 2. ALL PLANTINGS SHALL BE LOCAL NATIVE SPECIES.
- 3. IRRIGATION MAY BE PROVIDED FOR INITIAL ESTABLISHMENT AND DRY SEASONS.
- 4. ONLY SMALL MATURING TREES ARE ALLOWED TO BE PLANTED IN THE AMENDED SOILS.

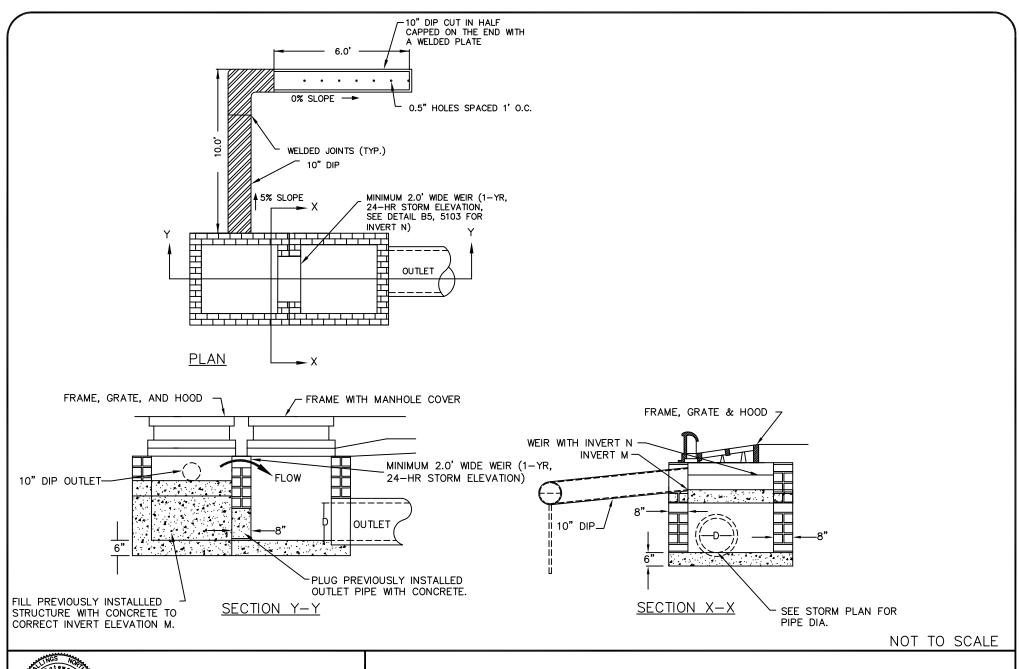


NOT TO SCALE

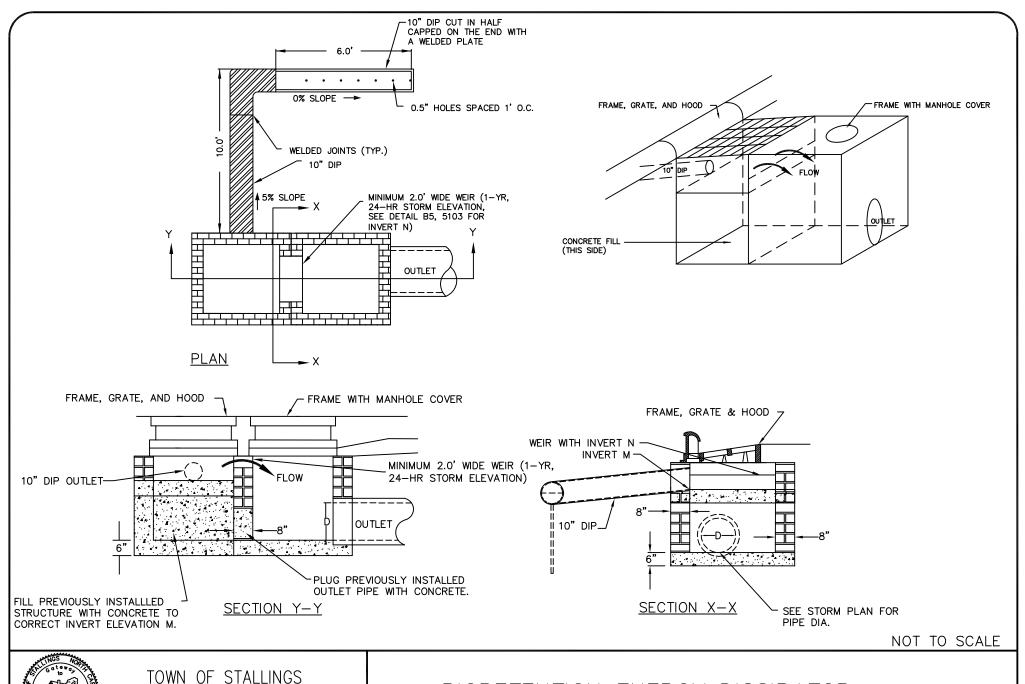


BIORETENTION PLANTING PLAN BMP FIG. 4.1.4

STD. NO.	REV.
	1
21 02	
Z1.UZ	/



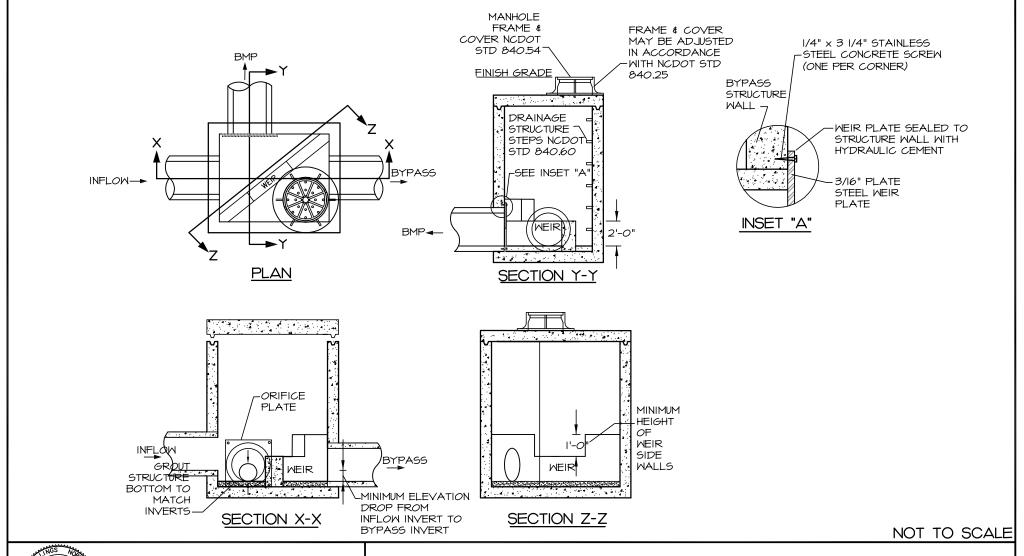
BIORETENTION ENERGY DISSIPATOR



LAND DEVELOPMENT STANDARDS

BIORETENTION ENERGY DISSIPATOR

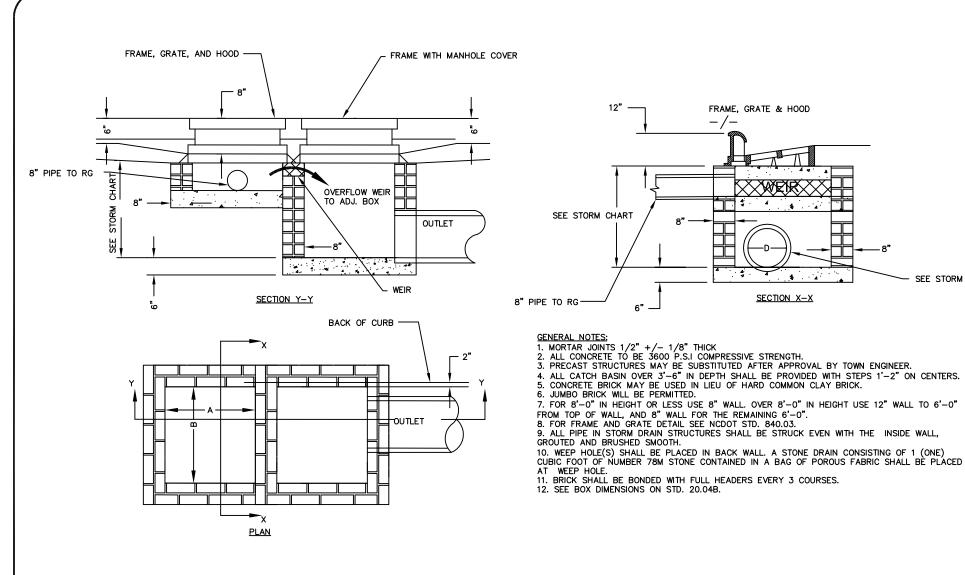
- I. ALL CONCRETE SHALL BE 3600 PSI.
- 2. ALL JOINTS ARE TO BE SEALED WATER TIGHT.
- 3. WEIR IS TO BE POURED-IN-PLACE CONCRETE.
- 4. REFER TO NCDOT STANDARD DRAWINGS FOR BOX CONSTRUCTION.
- 5. NOT ACCEPTABLE FOR USE IN STREET RIGHT OF WAY WITHOUT TOWN/NCDOT APPROVAL.



TOWN OF STALLINGS

LAND DEVELOPMENT STANDARDS

FLOW SPLITTER STRUCTURE BMP FIG. 4.1.11

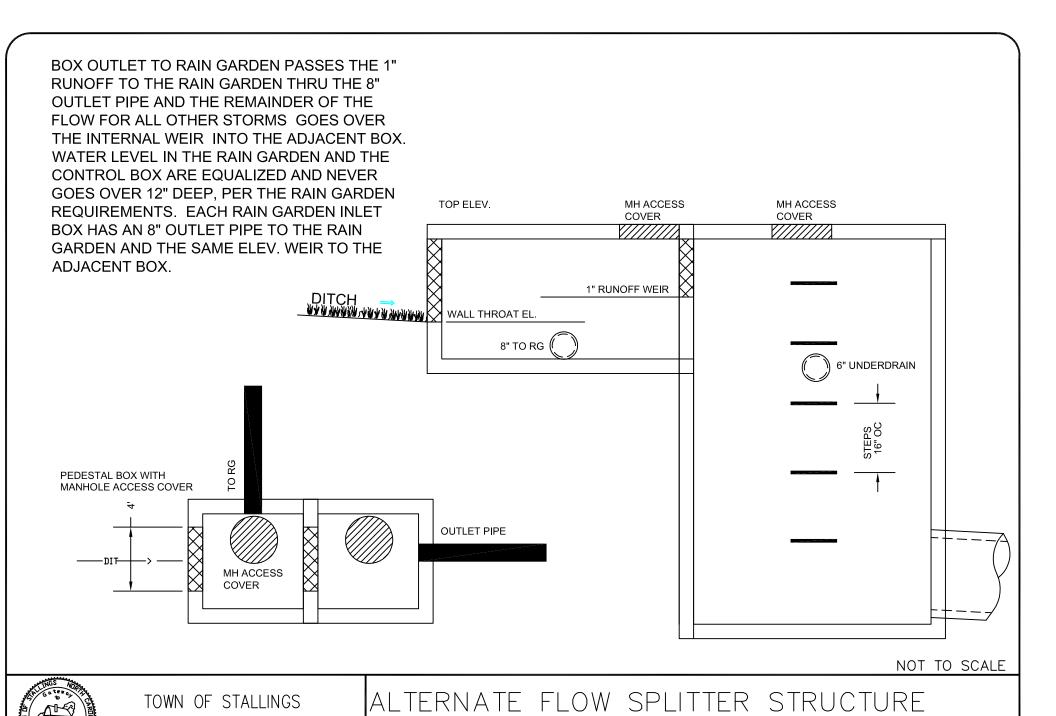


NOT TO SCALE

SEE STORM CHART



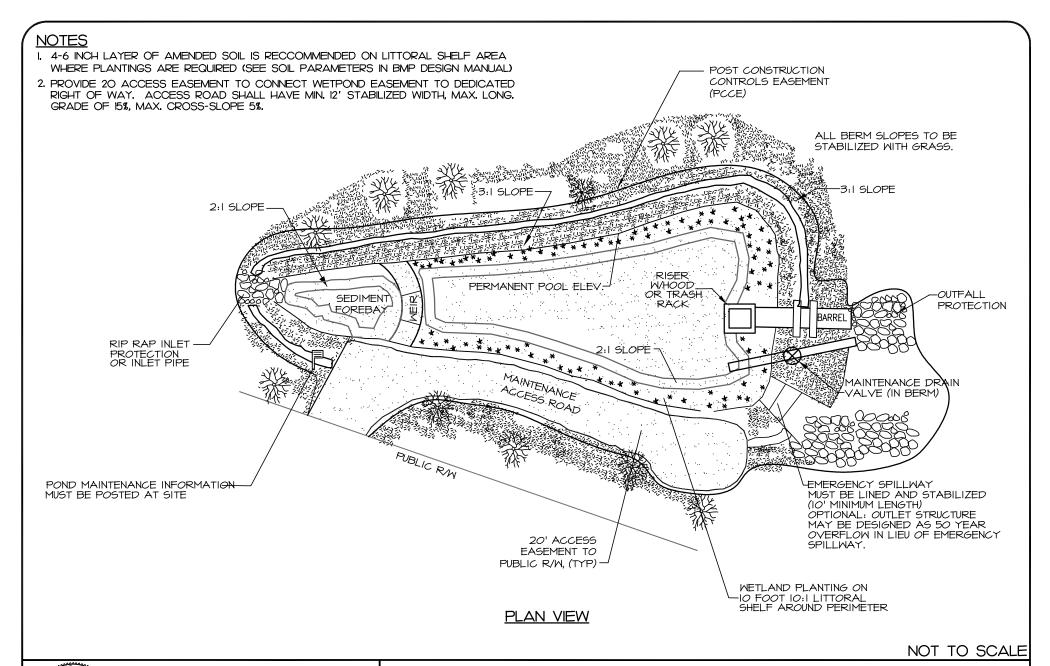
ALTERNATE FLOW SPLITTER STRUCTURE



LAND DEVELOPMENT STANDARDS

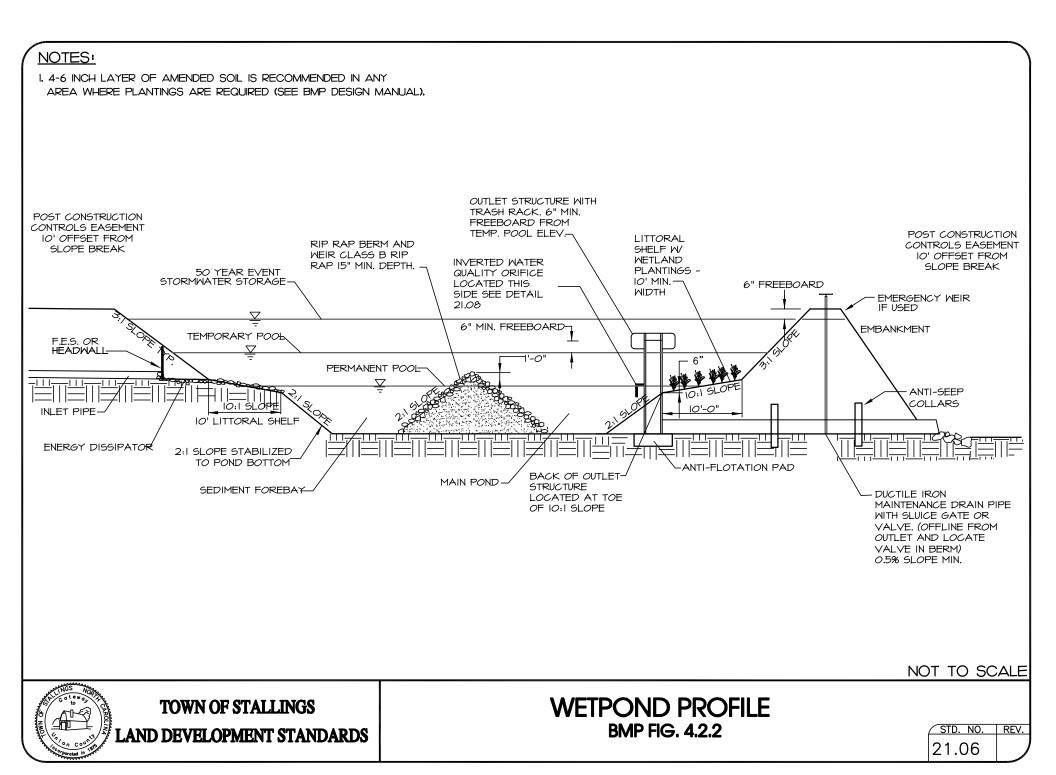
STD. NO. REV.

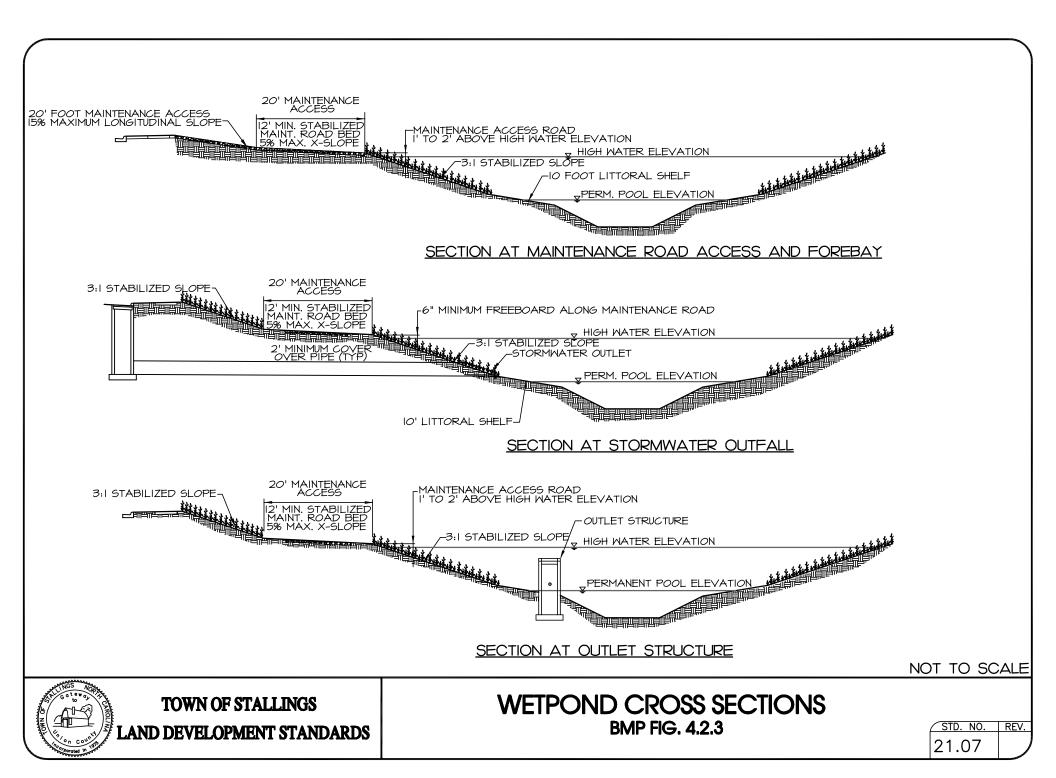
21.04B

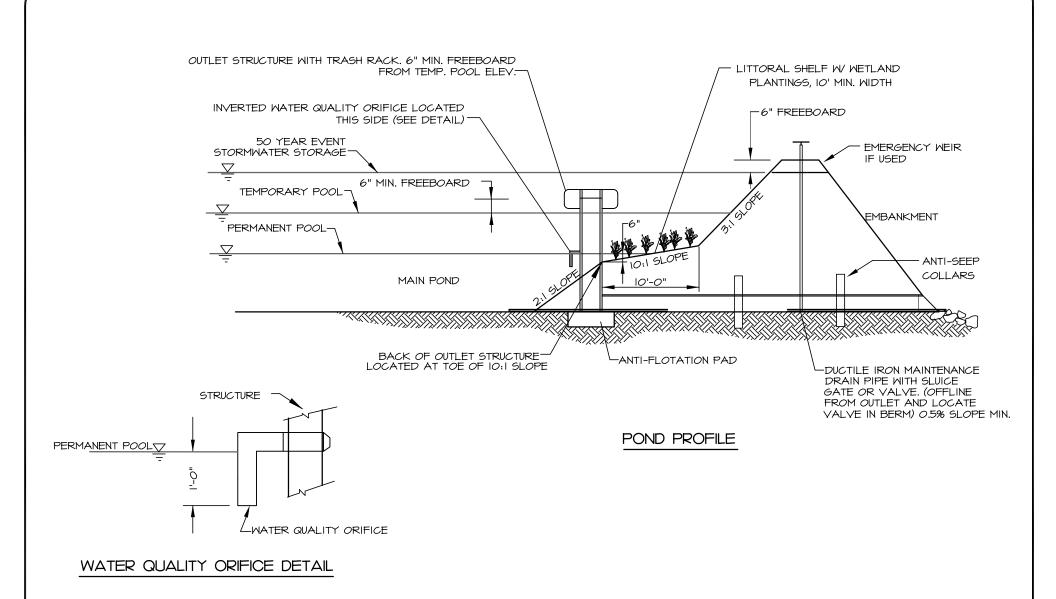


WETPOND PLAN BMP FIG. 4.2.2

STD. NO. REV.







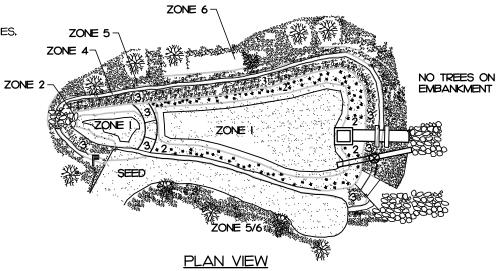
WETPOND LITTORAL SHELF AND BERM DETAIL BMP FIG. 4.2.4

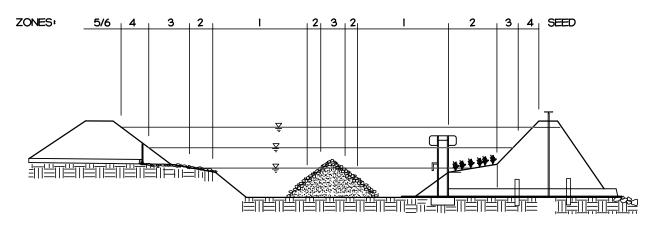
STD. NO. REV.

21.08

NOT TO SCALE

- I. PLANTINGS ZONES AND PLANT SELECTION PER THE BMP DESIGN MANUAL
- 2. ALL PLANTINGS SHALL BE LOCAL NATIVE SPECIES.
- 3. IRRIGATION MAY BE PROVIDED FOR INITIAL ESTABLISHMENT AND DRY SEASONS.





POND CROSS SECTION

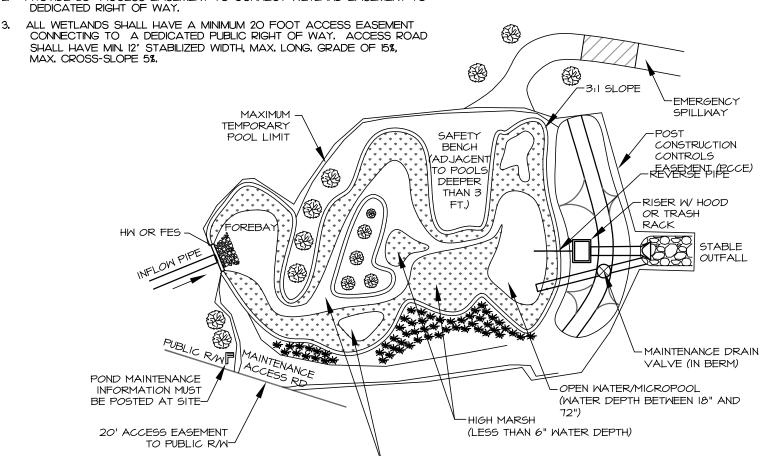
NOT TO SCALE



WETPOND PLANTING PLAN BMP FIG. 4.2.5

STD. NO. REV.

- I. 4-6 INCH LAYER OF AMENDED SOIL IS REQUIRED ON ANY MARSH AREA WHERE PLANTINGS ARE REQUIRED (SEE SOIL PARAMETERS IN BMP DESIGN MANUAL)
- 2. PROVIDE 20' ACCESS EASEMENT TO CONNECT WETLAND EASEMENT TO



PLAN VIEW

LOW MARSH

18")

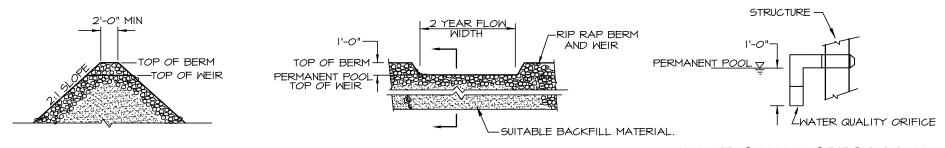
(WATER DEPTH BETWEEN 6" AND

NOT TO SCALE



WETLAND PLAN BMP FIG. 4.3.2

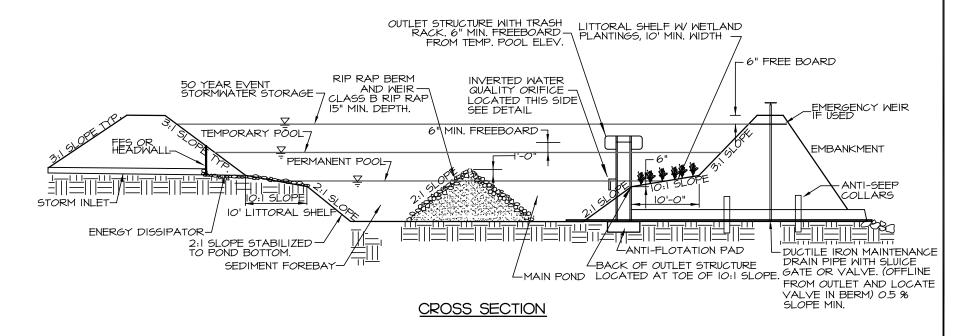
STD. NO. REV.



BERM AND WEIR SECTION

BERM AND WEIR DETAIL

WATER QUALITY ORIFICE DETAIL



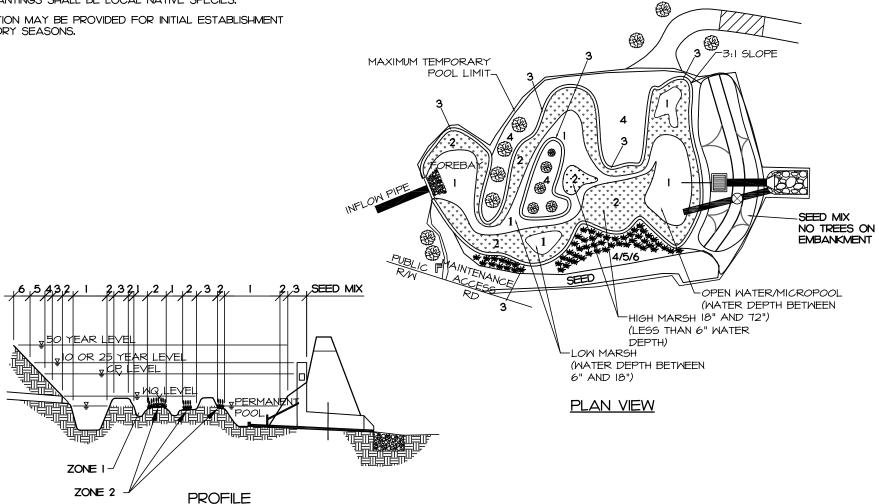
NOT TO SCALE



WETLAND DETAILS BMP FIG. 4.3.4

STD. NO. REV.

- I. PLANTINGS ZONES AND PLANT SELECTION PER THE BMP DESIGN MANUAL
- 2. ALL PLANTINGS SHALL BE LOCAL NATIVE SPECIES.
- IRRIGATION MAY BE PROVIDED FOR INITIAL ESTABLISHMENT AND DRY SEASONS.



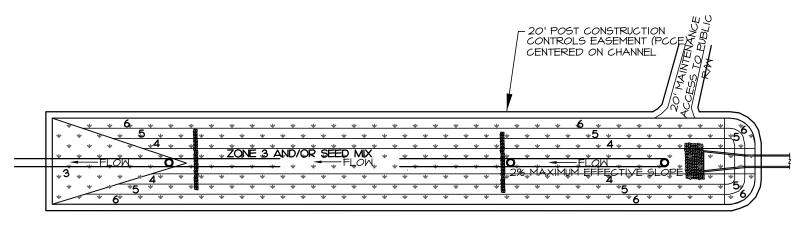
NOT TO SCALE



WETLAND PLANTING PLAN **BMP FIG. 4.3.5**

STD. NO. REV.

- I. PLANTING ZONES AND PLANT SELECTION PER THE BMP DESIGN MANUAL,
- 2. ALL PLANTINGS SHALL BE LOCAL NATIVE SPECIES.
- 3. IRRIGATION MAY BE PROVIDED FOR INITIAL ESTABLISHMENT AND DRY SEASONS.



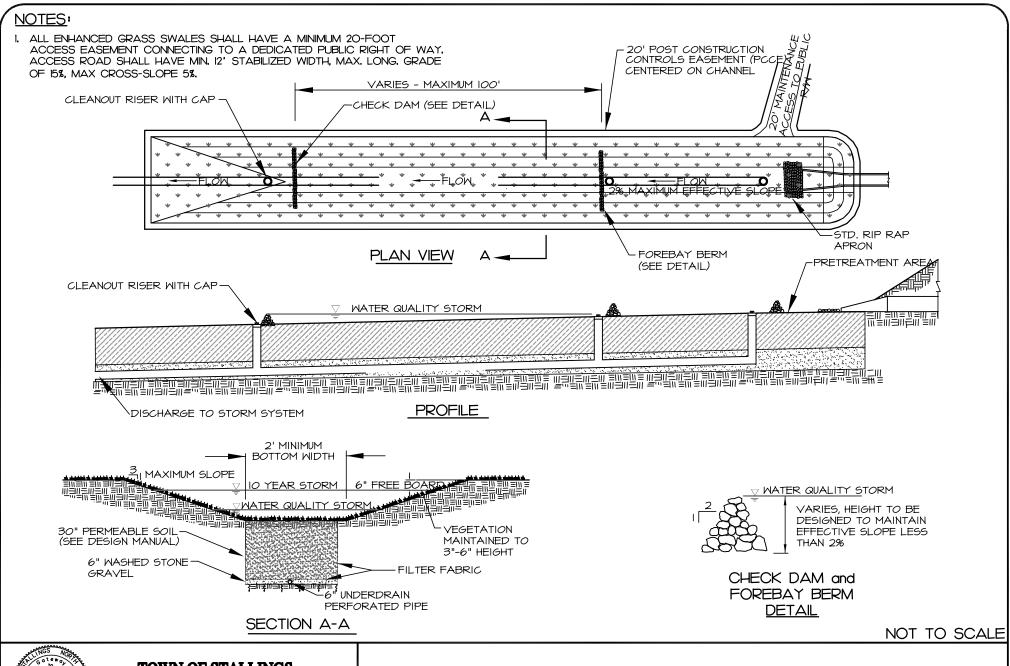
PLAN VIEW

NOT TO SCALE



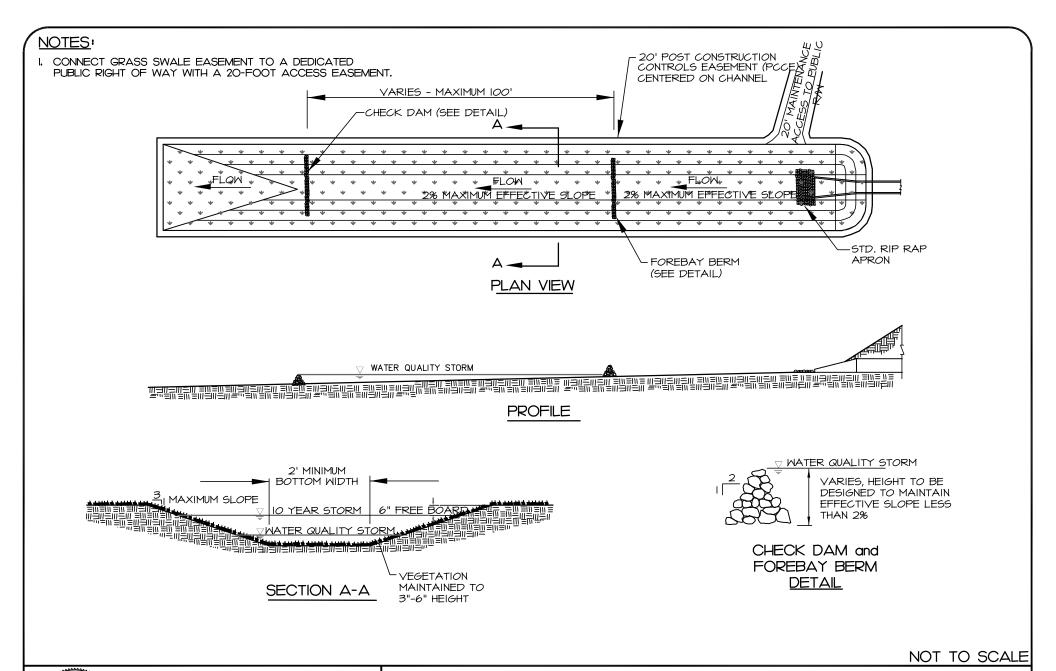
ENHANCED GRASS SWALE PLANTING PLAN BMP FIG. 4.4.3

STD. NO. REV.



ENHANCED GRASS SWALE DETAILS **BMP FIG. 4.4.5**

STD. NO. REV.

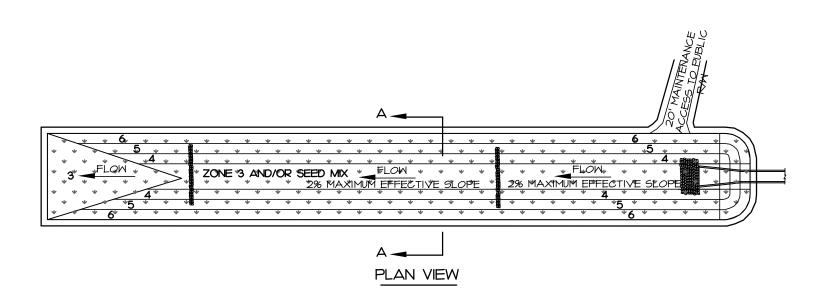


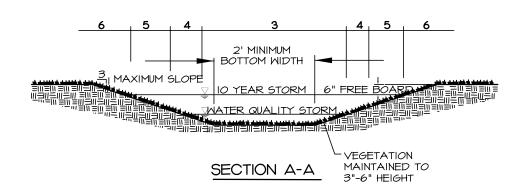
GRASS CHANNEL BMP FIG. 4.5.2

STD. NO. REV. 21.17

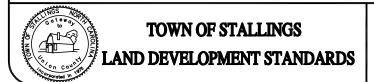
LAND DEVELOPMENT STANDARDS

TOWN OF STALLINGS



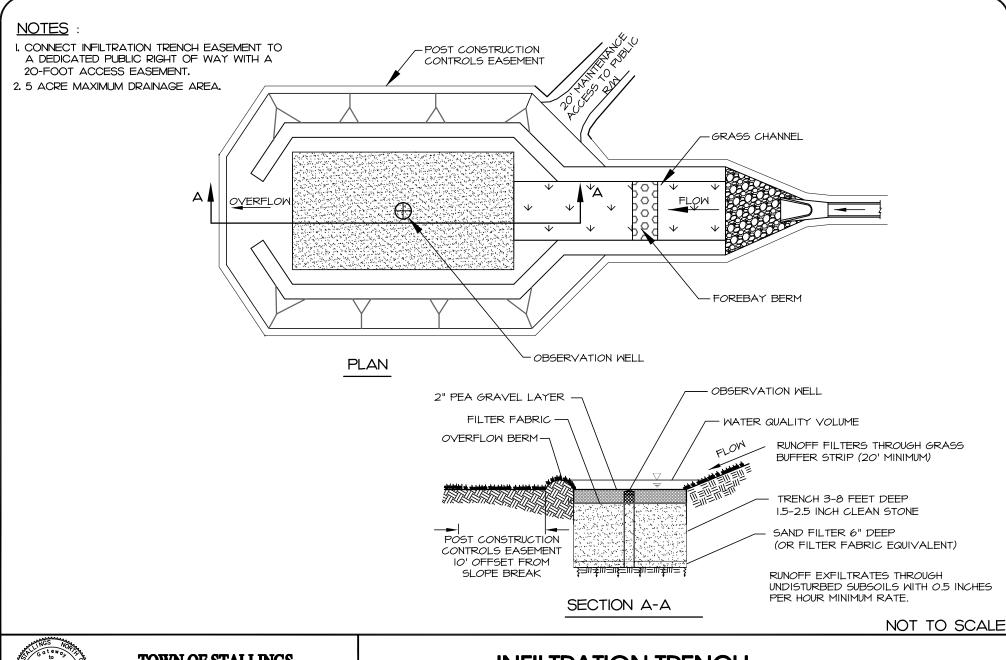


NOT TO SCALE



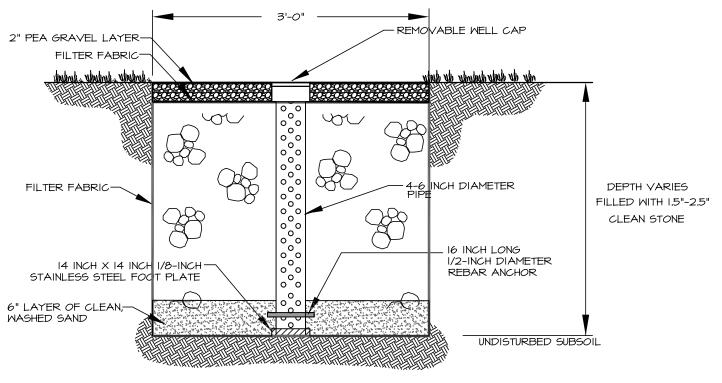
GRASS CHANNEL PLANTING PLAN BMP FIG. 4.5.3

STD. NO. REV.



INFILTRATION TRENCH BMP FIG. 4.6.2

STD. NO. REV.



PERFORATION HOLES TO BE 1/2 INCH DIAMETER AT 3 INCH MINIMUM VERTICAL SPACING

NOT TO SCALE

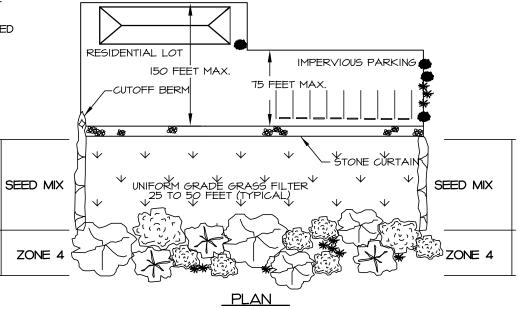


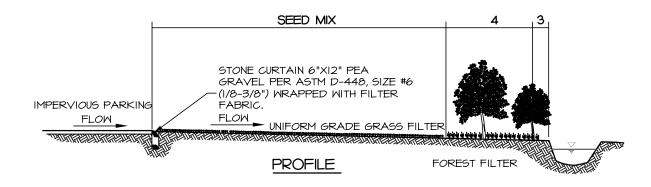
OBSERVATION WELL BMP FIG. 4.6.3

STD. NO.	REV.
21.20	



- I. MAXIMUM SLOPE 2% FOR FILTER STRIP AND 5% FOR BUFFER STRIP.
- 2. 5 ACRE MAXIMUM DRAINAGE AREA.
- 3. ALL FILTER/BUFFER STRIPS SHALL HAVE A MINIMUM 20 FOOT ACCESS EASEMENT CONNECTING TO A DEDICATED PUBLIC RIGHT OF WAY, ACCESS ROAD SHALL HAVE MIN, 12' STABILIZED WIDTH, MAX. LONG. GRADE OF 15%, MAX. CROSS-SLOPE 5%.

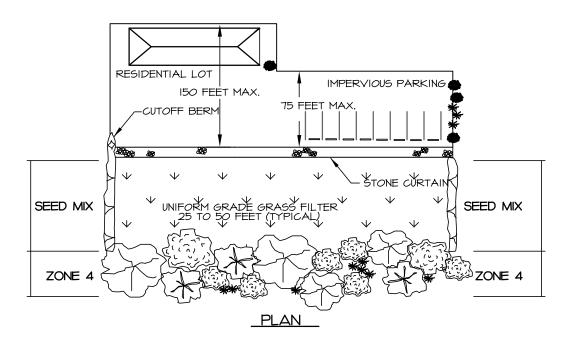


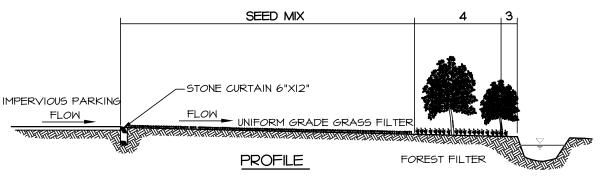


NOT TO SCALE



BUFFER STRIP BMP FIG. 4.7.3



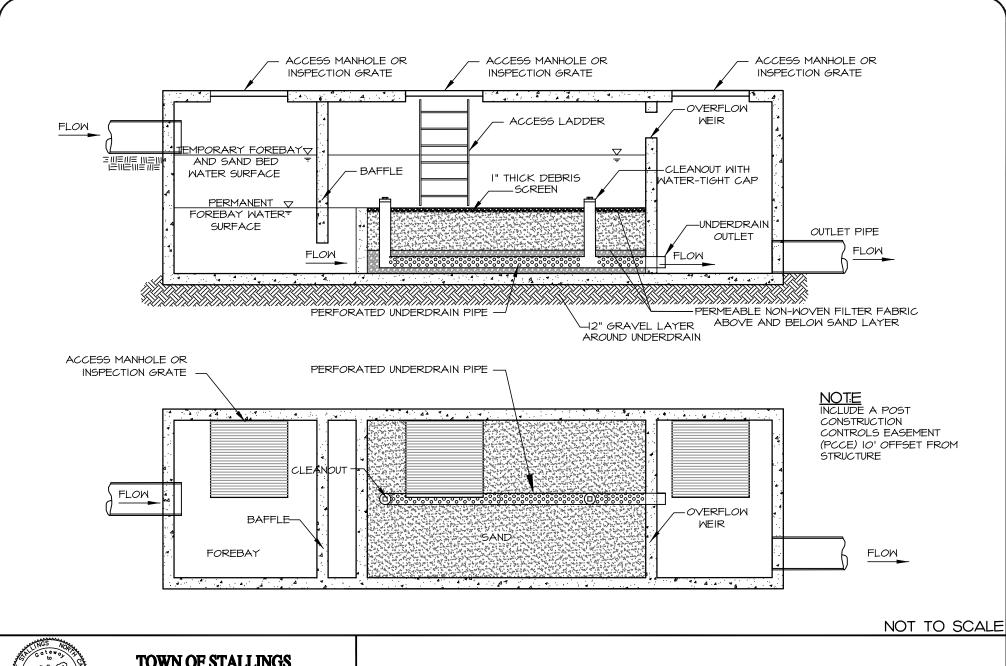


NOT TO SCALE



BUFFER STRIP PLANTING PLAN **BMP FIG. 4.7.4**

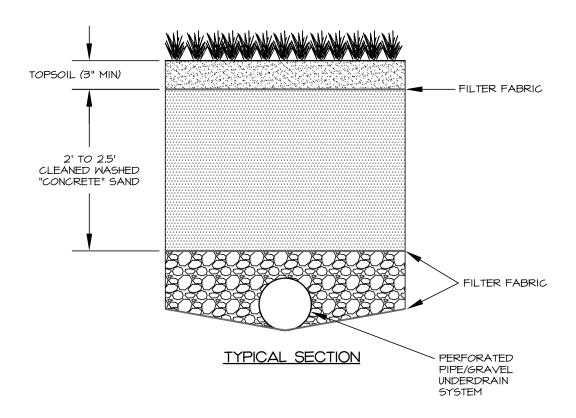
STD. NO. REV.



UNDERGROUND SAND FILTER

STD. NO. REV.

- I. "CONCRETE" SAND REFERS TO SAND THAT IS COMMONLY USED IN CONCRETE MIXES.
- 2. ALL DRAINAGE AREAS TO A SAND FILTER FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF SAND.
- 3. UNDERDRAIN PIPES SHOULD BE MIN. 6"
 PERFORATED SCHEDULE 40 PVC (PER
 AASHTO M278) OR DOUBLE WALL HDPE (PER
 AASHTO M252), PERFORATIONS SHOULD BE 3/8"
 SPACED 3" ON CENTER ALONG 4
 LONGITUDINAL ROWS SPACED 90" APART.



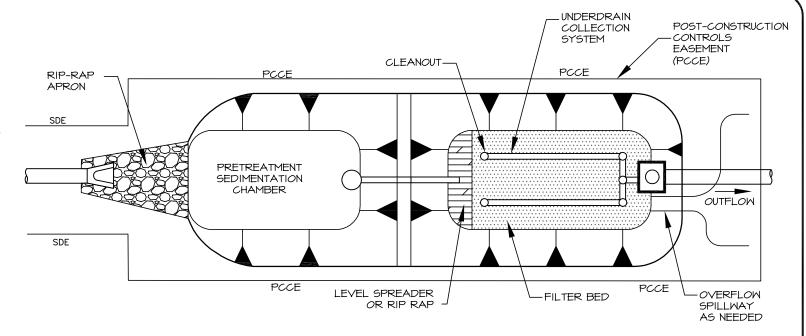
NOT TO SCALE



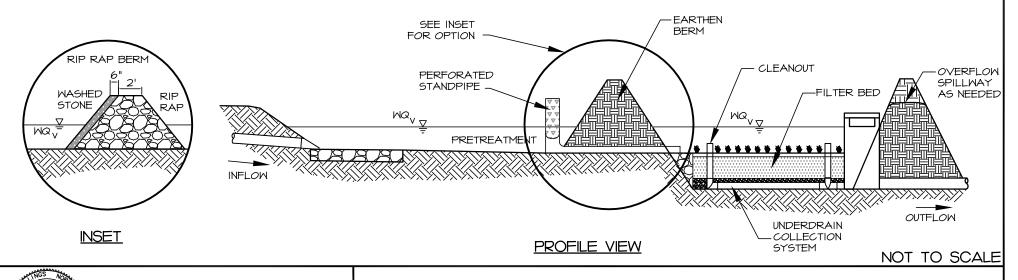
SURFACE SAND FILTER SECTION



- I. ALL SAND FILTERS SHALL HAVE A MINIMUM 20 FOOT ACCESS EASEMENT CONNECTING TO A DEDICATED PUBLIC RIGHT OF WAY. ACCESS ROAD SHALL HAVE MIN. 12' STABILIZED WIDTH, MAX. LONG. GRADE OF 15%, MAX. CROSS-SLOPE 5%. IN ADDITION, A 10-FOOT WIDE PERMANENT MAINTENANCE ACCESS EASEMENT MUST BE PROVIDED AROUND THE PERIMETER OF ALL BMPS TO ALLOW FOR ADEQUATE MAINTENANCE AND REPAIR.
- 2. ALL DRAINAGE AREAS TO A SAND FILTER FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF SAND.
- 3. CLEAN OUTS IN THE UNDERDRAIN SYSTEM ARE TO BE PROVIDED EVERY 50' MINIMUM, CLEAN OUTS SHALL HAVE WATER TIGHT, VANDAL PROOF CAPS AND EXTEND 6" ABOVE THE SURFACE,



PLAN VIEW





SURFACE SAND FILTER