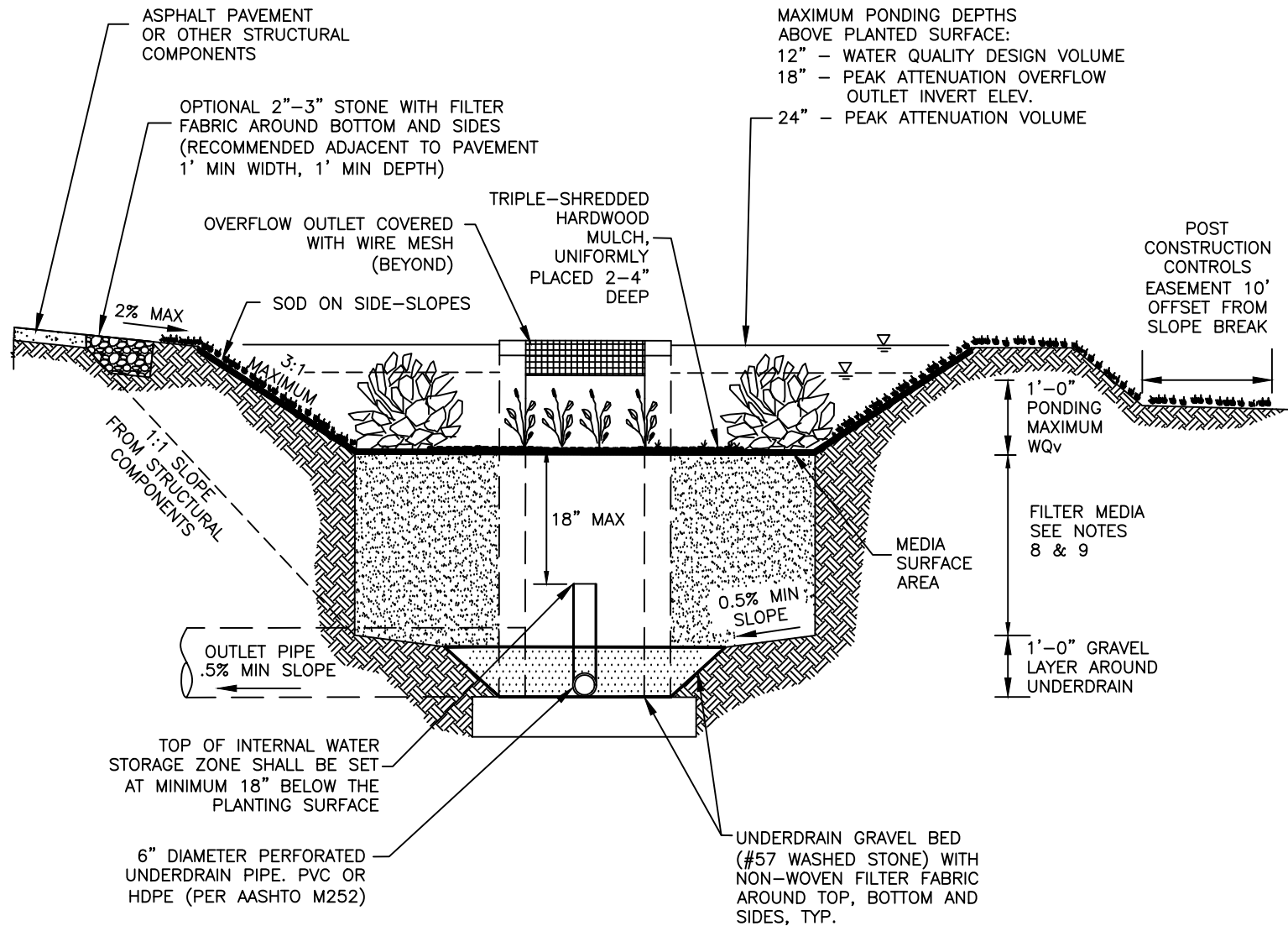


## NOTES:

1. 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%.
2. 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.
7. ONLY SMALL MATURING TREES ARE ALLOWED TO BE PLANTED IN THE AMENDED SOILS.
8. THE MINIMUM DEPTH OF THE MEDIA DEPENDS ON THE DESIGN OF THE CELL AS FOLLOWS:
  - A. ALL CELLS WITH TREES AND SHRUBS: 36 INCHES
  - B. CELLS WITHOUT TREES AND SHRUBS:
    - WITH NO INTERNAL WATER STORAGE: 24 INCHES
    - WITH INTERNAL WATER STORAGE: 30 INCHES
9. **MEDIA SPECIFICATION** - HOMOGENEOUS SOIL MIX ENGINEERED MEDIA BLEND WITH APPROXIMATE VOLUMES OF:
  - A) 75-85% MEDIUM TO COARSE WASHED SAND (ASTM C33, AASHTO M 6/M 80, ASTM C330, AASHTO M195, OR THE EQUIVALENT);
  - B) 8-15% FINES (SILT AND CLAY); AND
  - C) 5-10% ORGANIC MATTER (SUCH AS PINE BARK FINES).



## SECTION A-A

NOT TO SCALE



**CITY OF CHARLOTTE**  
**LAND DEVELOPMENT STANDARDS**  
 INCLUDES CHARLOTTE ETJ

## BIORETENTION CROSS-SECTION

STD. NO.	REV.
21.01	24