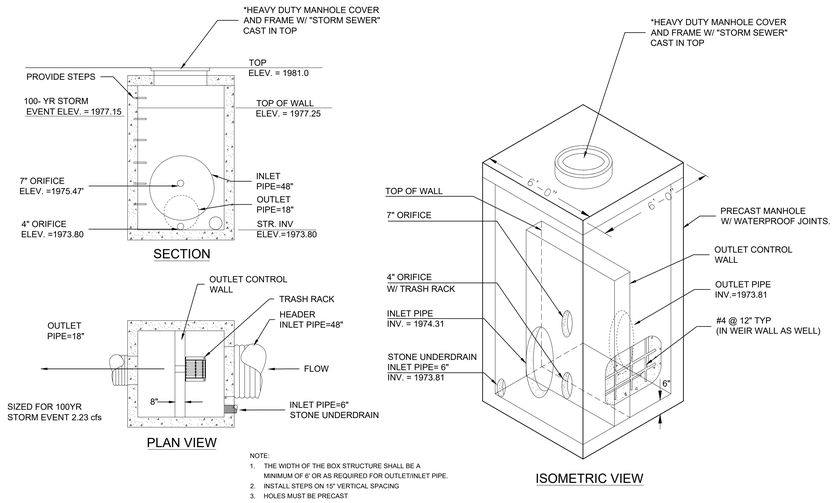
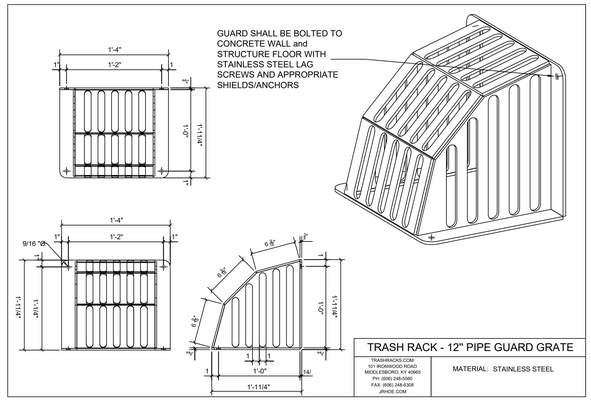
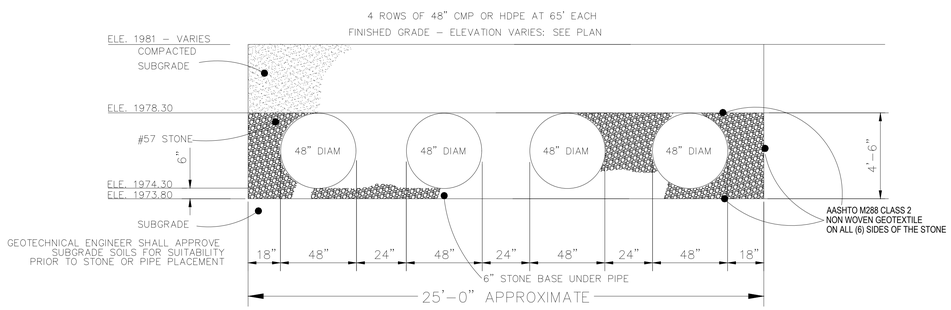


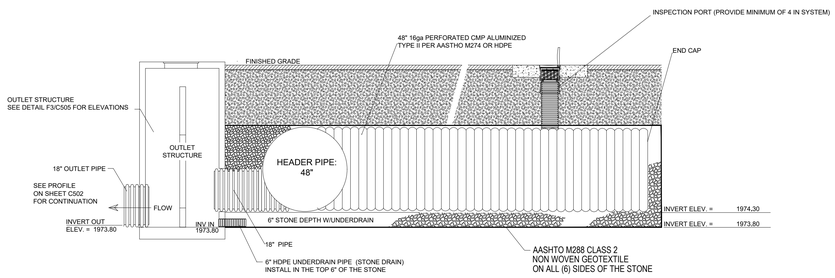
NOTE:
1. THE WIDTH OF THE BOX STRUCTURE SHALL BE A MINIMUM OF 6' OR AS REQUIRED FOR OUTLET/INLET PIPE.
2. INSTALL STEPS ON 15" VERTICAL SPACING
3. HOLES MUST BE PRECAST

F3 / C505 **OUTLET STRUCTURE DETAIL**
NOT TO SCALE



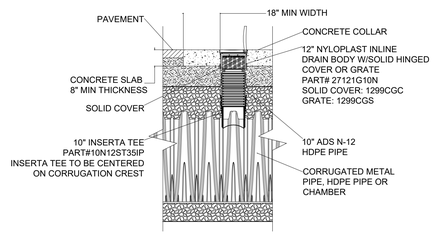


H3 / C505 **TYPICAL STORM WATER DETENTION POND SECTION AA**
NOT TO SCALE



SIDE SECTION THROUGH POND
NTS

NOTES:
1. CMP STORMWATER DETENTION PIPE SHALL BE INSTALLED PER AASTHO SECTION 26.
2. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.



INSPECTION PORT DETAIL
NOT TO SCALE

INSPECTION & MAINTENANCE

STEP 1) INSPECT FOR SEDIMENT
A. INSPECTION PORTS.
A.1. REMOVE/OPEN LID ON MANHOLE.
A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED.
A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
A.4. LOWER A CAMERA INTO ROWS FOR VISUAL INSPECTION OF SEDIMENT LEVELS.
A.5. IF SEDIMENT IS AT, OR ABOVE, 3" PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
B. ALL ROWS
B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF FIRST ROW
B.2. USING A FLASHLIGHT, INSPECT DOWN THE PIPE ROW THROUGH OUTLET PIPE
i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
B.3. IF SEDIMENT IS AT, OR ABOVE, 3" PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ROW(S) USING THE JETVAC PROCESS
A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° OR MORE IS PREFERRED
B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE DETENTION SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

OPERATION & MAINTENANCE PLAN:

FIRST YEAR OF OPERATION: THE OWNER SHALL CONDUCT QUARTERLY INPECTIONS OF THE UNDERGROUND PIPE STORAGE SYSTEM AND OUTLET STRUCTURE.
SECOND AND THIRD YEAR: THE OWNER SHALL CONDUCT BIANNUAL INSPECTIONS OF THE DETENTION POND SYSTEM AND THE OUTLET STRUCTURE.
FOUR YEAR AND MORE: THE OWNER SHALL CONDUCT ANNUAL INSPECTIONS OF DETENTION POND SYSTEM AND OUTLET STRUCTURE.

INSPECTIONS SHALL CONSIST OF OF THE FOLLOWING:
- INSPECT TO VERIFY OUTLET STRUCTURE IS CLEAR OF SEDIMENT AND DEBRIS.
- INSPECT TO VERIFY THE STORM PIPE IS CLEAR OF SEDIMENT AND DEBRIS.
- INSPECT TO VERIFY THE PIPE/CHAMBERS STORAGE IS CLEAR OF SEDIMENT AND DEBRIS.
- VACUUM OUT BUILDUP OF SEDIMENT AS REQUIRED TO MAINTAIN CLEAN SYSTEM.

SEE HYDROLOGY REPORT FOR ADDITIONAL MAINTENANCE REQUIREMENTS OF WATER QUALITY UNIT(S) AND UNDERGROUND DETENTION SYSTEM.

CONSTRUCTION DETAILS
Scale: Varies

SA&E PROJECT NUMBER	01-697-027
BID PACKAGE	BP-1
ISSUED FOR CONSTRUCTION	04-08-2019

REVISIONS

R #	Doc #	DATE:
1	add#1	3/11/2019

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NEW:

UNION COUNTY FIELDHOUSE
400 WELBORN STREET BLAIRSVILLE, GA 30512

UNION COUNTY SCHOOLS
124 HUGHES STREET BLAIRSVILLE, GA 30512

STATE OF GEORGIA · GREGORY SCHULTHEIS · CERTIFICATE No: 1595 · REGISTERED ARCHITECT

GEORGIA · REGISTERED · LANDSCAPE ARCHITECT · REBECCA REAGAN KIRK

DRAWING NUMBER
C505