

1. THE INFILTRATION RATE SHALL NOT SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY.
2. RELATIVELY LIGHT TRACKED EQUIPMENT IS RECOMMENDED FOR CONSTRUCTION PURPOSES TO AVOID COMPACTION OF THE BASE COURSE.
3. A HIGHLY POROUS SURFACE TEXTURE SHALL BE RETAINED ALONG THE BASIN FLOOR, ESPECIALLY WITHIN THE AREA IDENTIFIED AS BEING USED FOR INFILTRATION.
4. THE INFILTRATION RATE SHALL BE MAINTAINED ALONG THE BASIN FLOOR TO PREVENT EROSION AND SLOUGHING AND TO PROVIDE A NATURAL MEANS OF MAINTAINING RELATIVELY HIGH INFILTRATION RATES. GRASSES OF THE FESCUE FAMILY (ALTA FESCUE, WESTERN FESCUE OR RED FESCUE) ARE SPECIFIED FOR THIS AREA, PROVIDED THEY ARE SEEDING AT A RATE OF 100 LBS PER ACRE. SEEDING SHALL BE HARDENESS, AND ABILITY TO WITHSTAND BRIEF INUNDATIONS. FESCUE WILL ALSO ALLOW FOR LONG INTERVALS BETWEEN MOWINGS, WHICH SHALL OCCUR TWICE PER YEAR MINIMUM, TYPICALLY IN JUNE AND SEPTEMBER.
5. THE BERMS SHALL BE SUFFICIENTLY COMPACTED AND OF SUCH MATERIAL TO PREVENT SEEPAGE.

STORMWATER MANHOLE DETAIL
NOT TO SCALE



- ① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 1'-6" H x 2'-0" L x 4'-0" W, Upfit 3'-6 3/4" FRONT SUMP
- ② 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1 1/4" O.C., 4'-0" H.
- ③ SPILL PROTECTION RESERVOIR 5'-0" H. WITH A 1'-8" FRONT CUT.
- ⑤ 3/4" COCONUT FIBER FILTER IN ALUMINUM FRAME 1'-8" LONG.
- ⑥ 1/4" ALUMINUM PLATE, 9" H., 1'-11" WIDE.

[illegible]

OUTLET CONTROL STRUCTURE DATA										
OCS ID	STRUCTURE DIMENSIONS	LOW FLOW ORIFICE DIM. (IN)	"LF" (FT)	HIGH FLOW ORIFICE DIM	# OF HIGH FLOW INLETS	"HF" (FT)	"T" (FT)	OUTLET PIPE Ø (IN)	"OP" (FT)	HIGH FLOW ORIFICE TRASH RACK PART
2	4'x4' I.D.	9" W X 6" H	83.7	21" W X 6" H	1	85.10	88.0	18	82.0	NA

- NOTES:
1. ALL TRASH RACKS SHALL HAVE UV PROTECTION MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D2565-99.
 2. TRASH RACKS SHALL BE SECURED PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. WHERE HIGH FLOW ORIFICE EXTENDS TO TOP OF STRUCTURE, THE MAXIMUM ALLOWABLE GAP BETWEEN THE TRASH RACKS SHALL BE 4".

EMERGENCY OVERFLOW WEIR TABLE

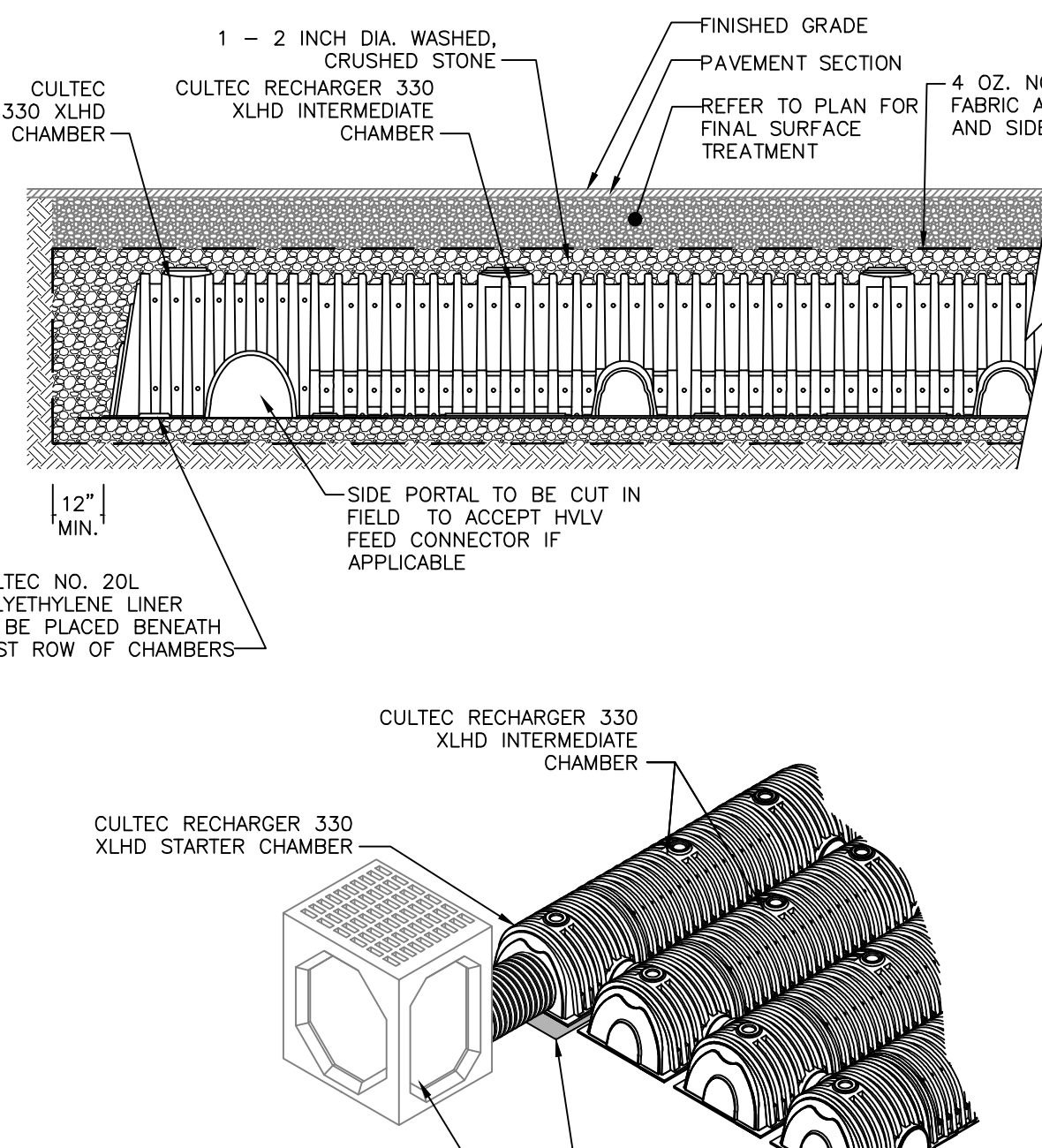
SWM ID	OVERFLOW WEIR ELEVATION (FT)	DIMENSION A (FT)	DIMENSION B (FT)	DIMENSION D (IN)
BIORETENTION AREA 1	90.0	6	3	12

- NOTES:
1. RIP RAP OUTLET PROTECTION SHALL BE 15" OF LIGHT STONE FILLING. STONE FILLING SIZE $d_{50}=6"$. RIVER ROCK MAY BE SUBSTITUTED FOR ANGULAR STONE.

NOTES:

1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 644 IB BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA. 1-800-648-6945.
2. ALL PIPES SHALL BE CONSTRUCTED TO BE FLUSH WITH THE INSIDE WALL.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPES AND STRUCTURES BETWEEN AND AROUND THE WATER QUALITY VAULTS.
4. ALL VAULT DRAIN CONNECTIONS SHALL BE LOCATED ON THE OUTSIDE OF THE VAULT WALLS.
5. CONCRETE VAULT PRE-CASTER IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE CONCRETE VAULTS. WALL AND SLAB THICKNESSES SHALL BE ALTERED ACCORDINGLY.

WQI DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE AN INSPECTION PORT FOR THE INITIAL AND FINAL CHAMBER OF EACH ROW, AND FOR ROWS WITH MORE THAN 10 CHAMBERS, ONE IN AN INTERMEDIATE CHAMBER.

UNDERGROUND DETENTION SYSTEM INSPECTION PORT DETAIL
NOT TO SCALE



1. YARD INLET BASINS SHALL BE PRE CAST REINFORCED CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND SHALL BE IN CONFORMANCE WITH ASTM 478-68. WALLS AND BASE SHALL BE ONE PIECE CONSTRUCTION. YARD INLET BASIN SHOWN BY EXPANDED SUPPLY PRODUCTS (ESP) 3330 ROUTE 9, COLD SPRING, NY (845) 265-3771.
2. BACKFILL USING SELECT MATERIAL, COMPACTED IN 6" LIFTS.
3. SUMP SHALL BE 12".
4. FRAMES AND GRATES SHALL BE SET IN A FULL BED OF MORTAR.

CAST IRON STORMWATER FLAT INLET GRATE DETAIL

NOT TO SCALE

SECTION VIEW

NOTES:

1. MINIMUM 1" DEPTH AND 1" WIDTH FOR ALL SWALES.
2. SWALE SHALL BE SEEDED WITH FAST GERMINATING RYE 15 TO 25 POUNDS PER 1,000 SQUARE FEET AND MULCHED.

TEMPORARY GRASS LINED SWALE/DIKE DETAIL

NOT TO SCALE

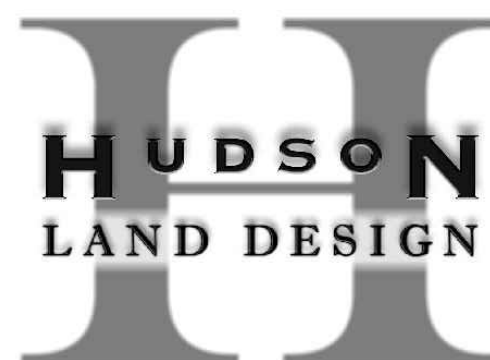
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TEMPORARY GRASS LINED SWALE/DIKE DETAIL
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JOB #:	2018:029
DATE:	10/23/2018
SCALE:	AS SHOWN
TITLE:	D-2
SHEET	11 OF 14