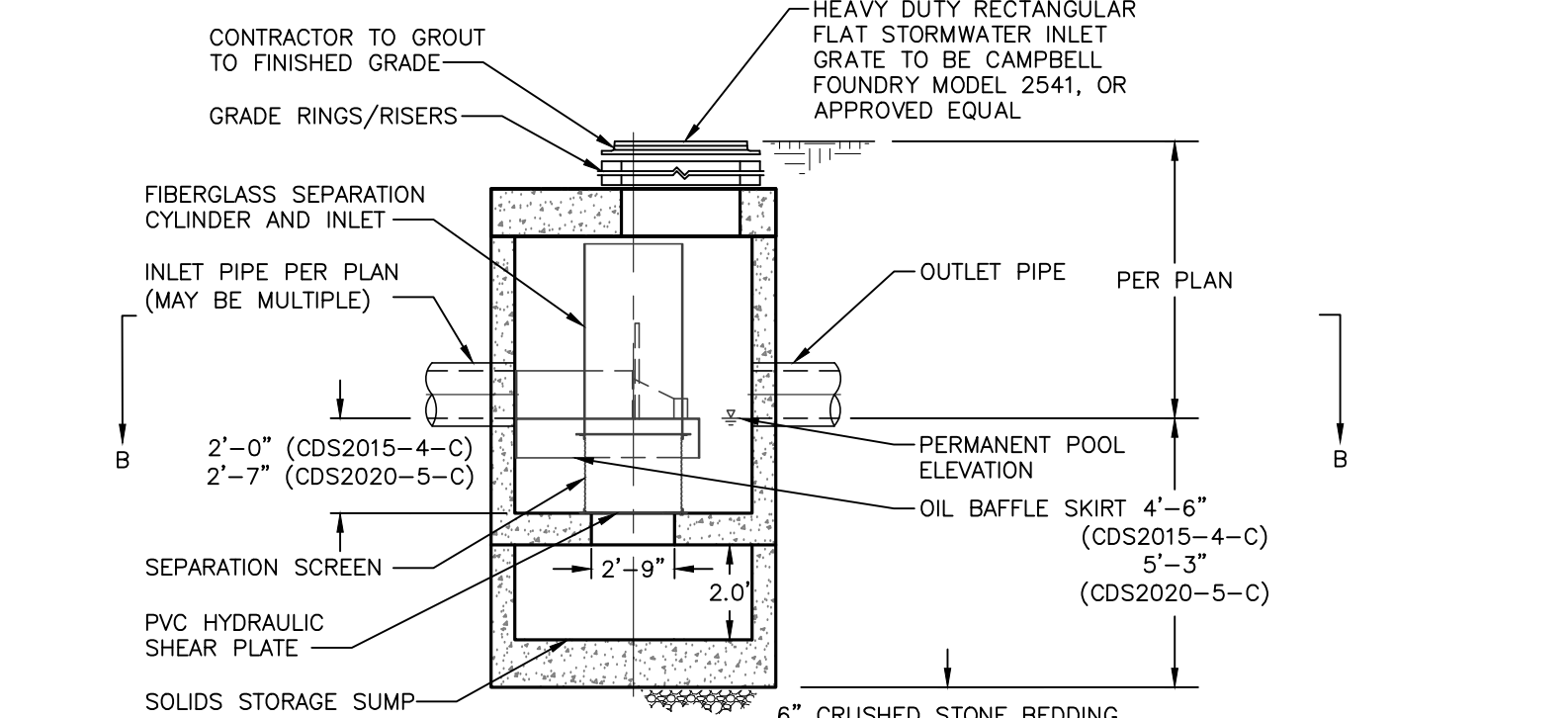
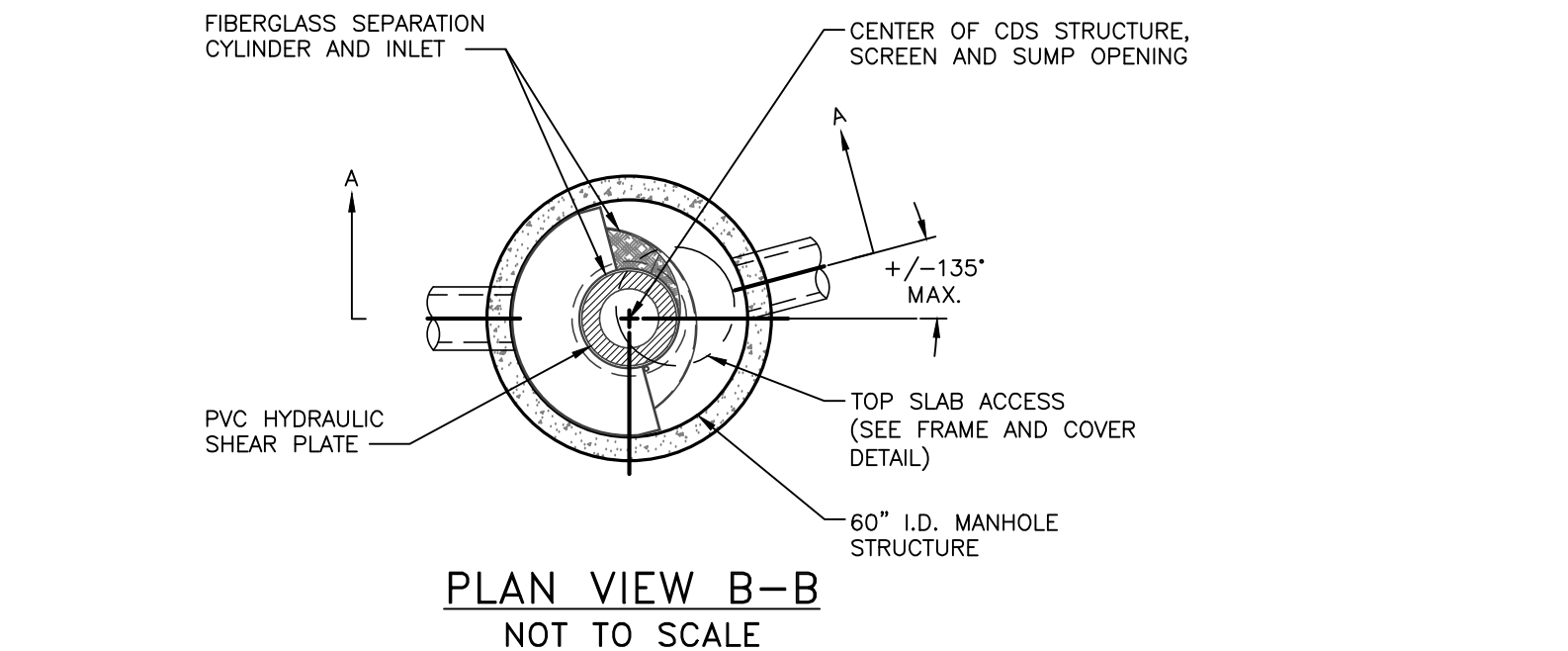


NOTES:  
1. PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. PROVIDE A MINIMUM 0.1" DROP BETWEEN INLET AND OUTLET INVERTS (MATCH CROWNS FOR PIPES WITH DIFFERENT SIZE) UNLESS OTHERWISE NOTED ON THE PLAN.  
5. CATCH BASINS WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.  
6. HOPE PIPE SHALL BE PROVIDED WITH WATER TIGHT CONNECTIONS. ADDS MODEL N12 WT II OR APPROVED EQUAL.

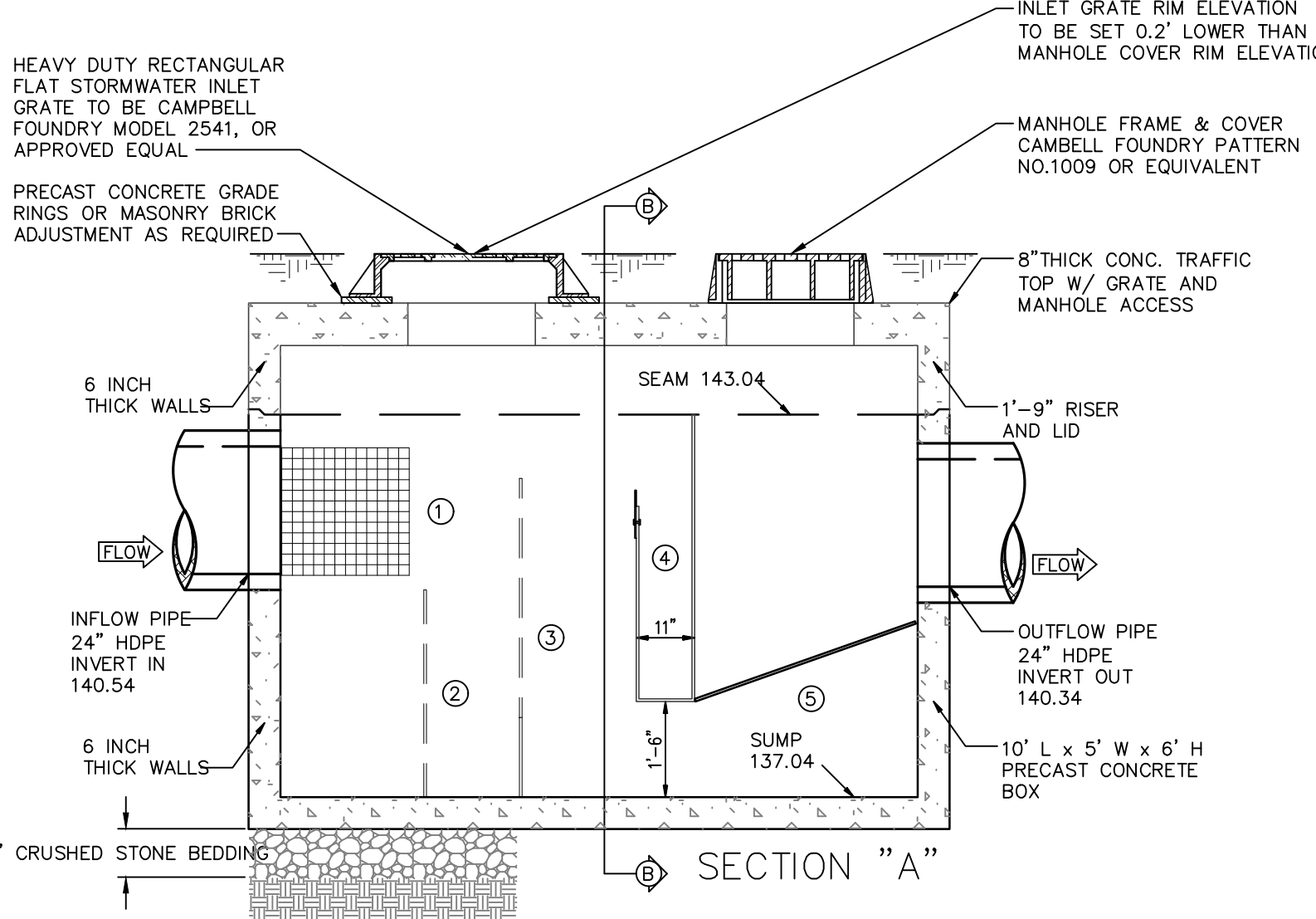
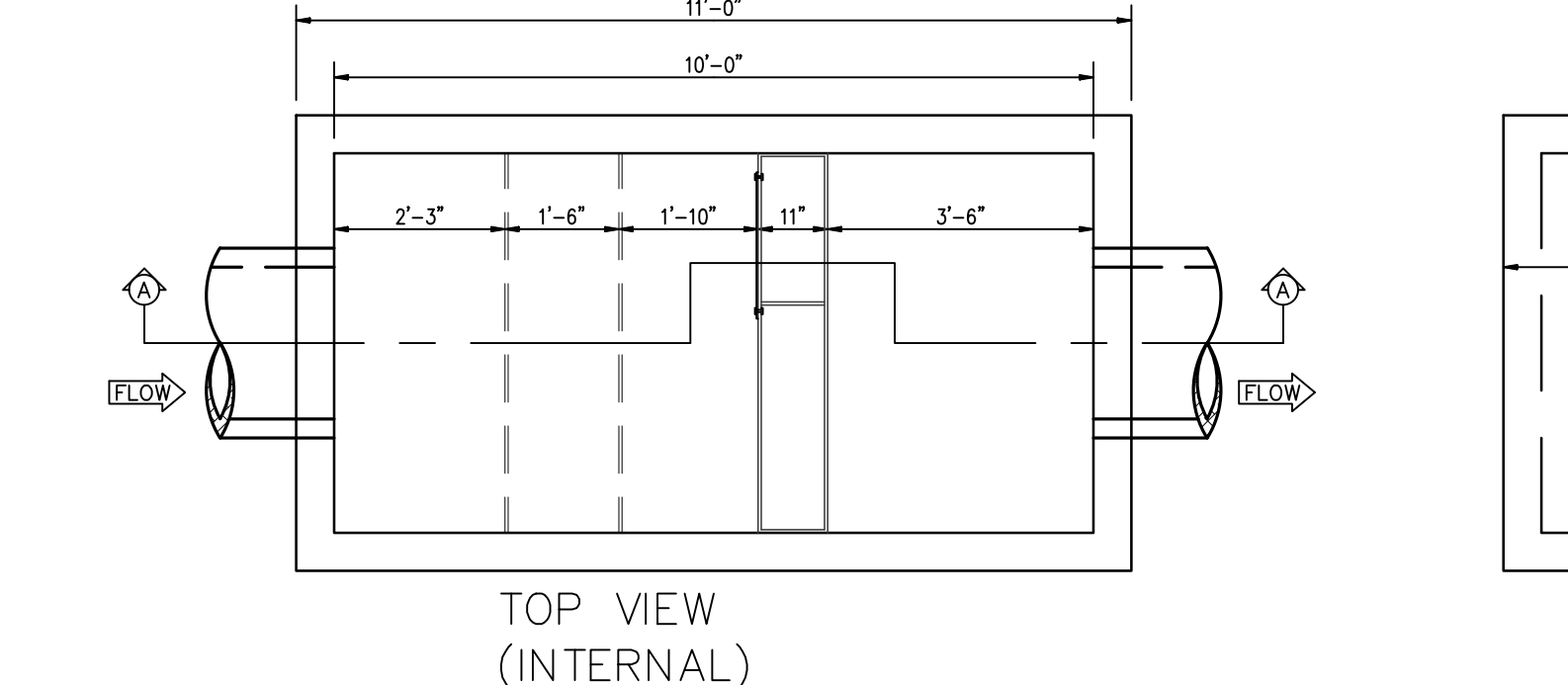
CATCH BASIN DETAIL  
NOT TO SCALE



SECTION VIEW A-A  
NOT TO SCALE

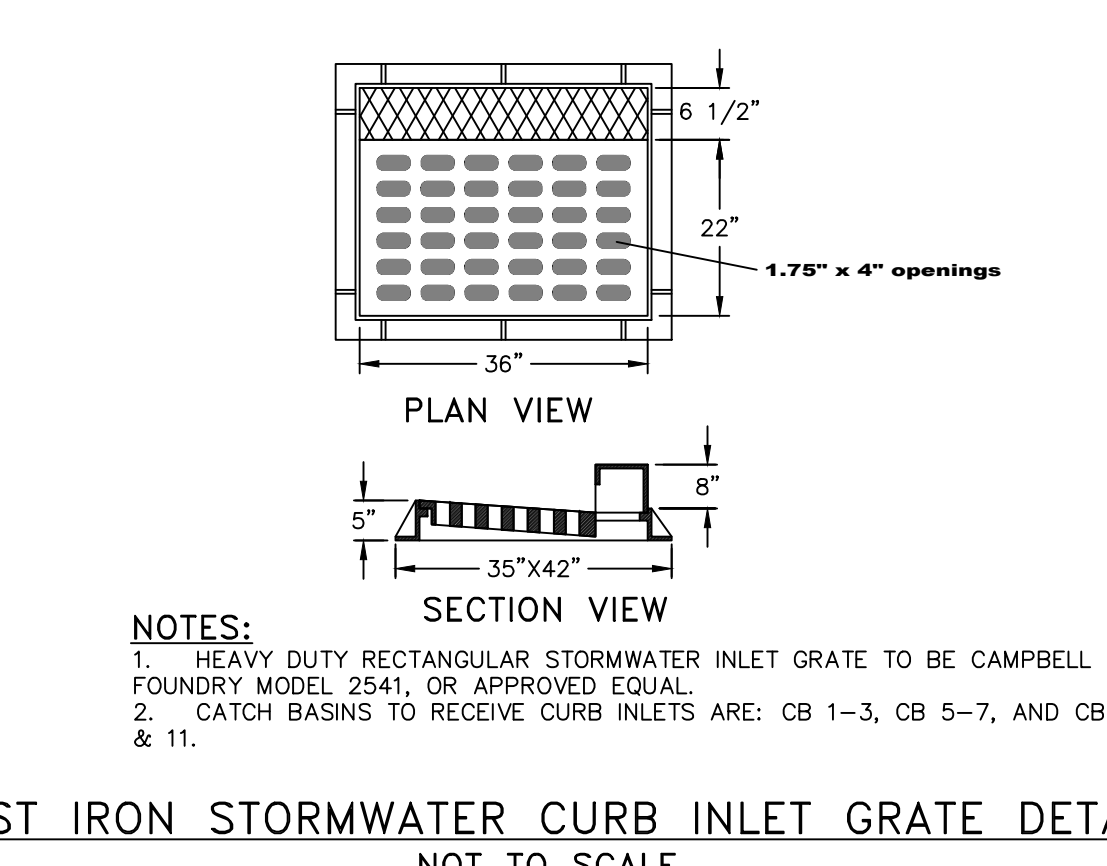
NOTES:  
1. STORMWATER TREATMENT SYSTEM (SNTS) SHALL BE DESIGNED TO MEET PERFORMANCE GOALS BASED ON FULL SCALE LABORATORY PERFORMANCE DATA.  
2. SNTS SHALL BE DESIGNED TO RETAIN FLATABLES AND TRAPPED SEDIMENT AT FLOW RATES UP TO AND INCLUDING PEAK TREATMENT CAPACITY.  
3. SNTS INVERTS SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
4. SNTS SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER.  
5. SNTS SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS.  
6. PIPE ORIENTATION MAY VARY. SEE SITE PLAN FOR SIZE AND LOCATION.  
7. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF INTERNAL COMPONENTS.  
8. ONE MANHOLE FRAME AND COVER SUPPLIED WITH SYSTEM. NOT INSTALLED.  
9. STRUCTURE TO PREPARE EXCAVATION AND COVER SUPPLIED WITH SYSTEM. NOT INSTALLED.  
10. STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER AT, OR BELOW THE INLET PIPE INVERT ELEVATION.  
11. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN INLET. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.  
12. SEE GRADING & UTILITY PLAN FOR PIPE ORIENTATION, INVERTS AND SIZES.

WQ2 CDS® PRE-TREATMENT UNIT DETAIL  
NOT TO SCALE

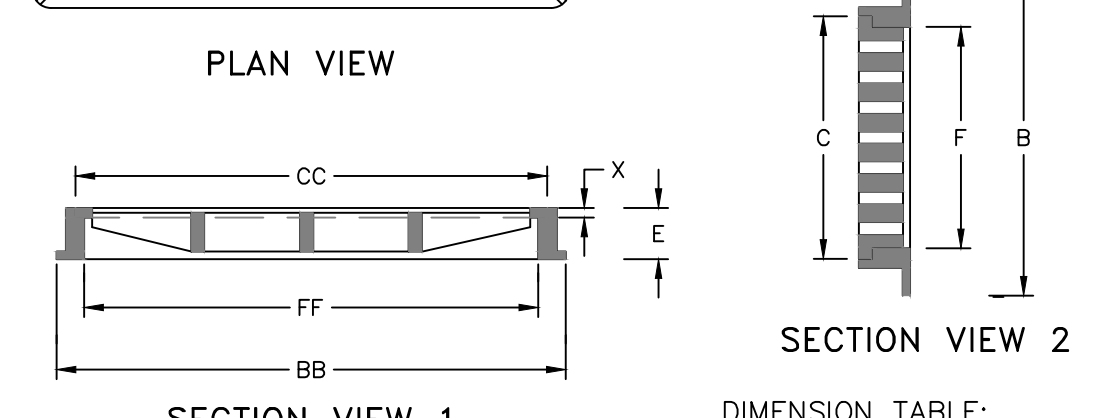


NOTES:  
1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 1056 BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA.  
2. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPES AND STRUCTURES BETWEEN AND AROUND THE WATER QUALITY VAULTS.  
4. ALL VAULT LIFTING 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.

WQ1 1 DETAIL  
NOT TO SCALE

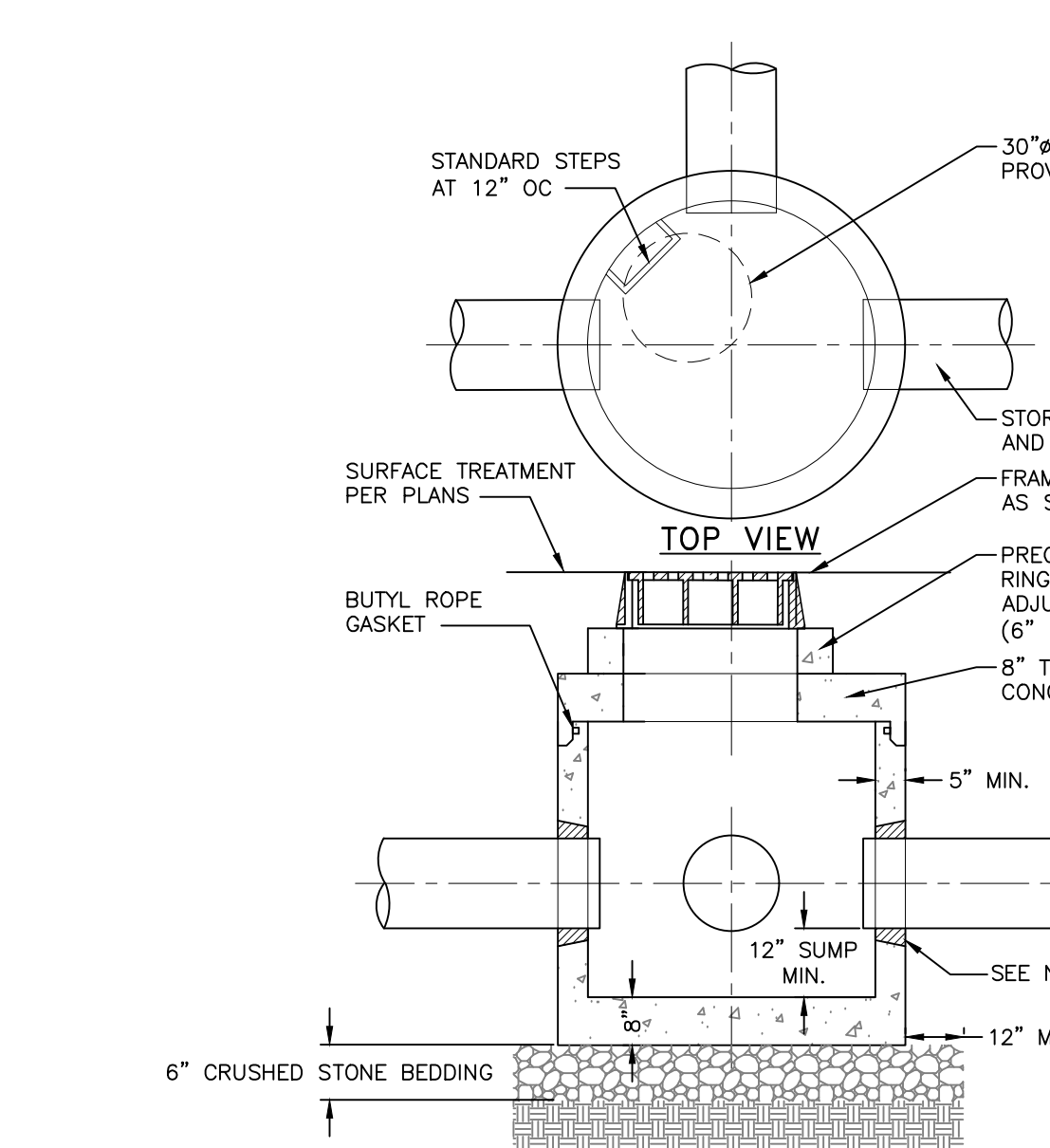


CAST IRON STORMWATER CURB INLET GRATE DETAIL  
NOT TO SCALE



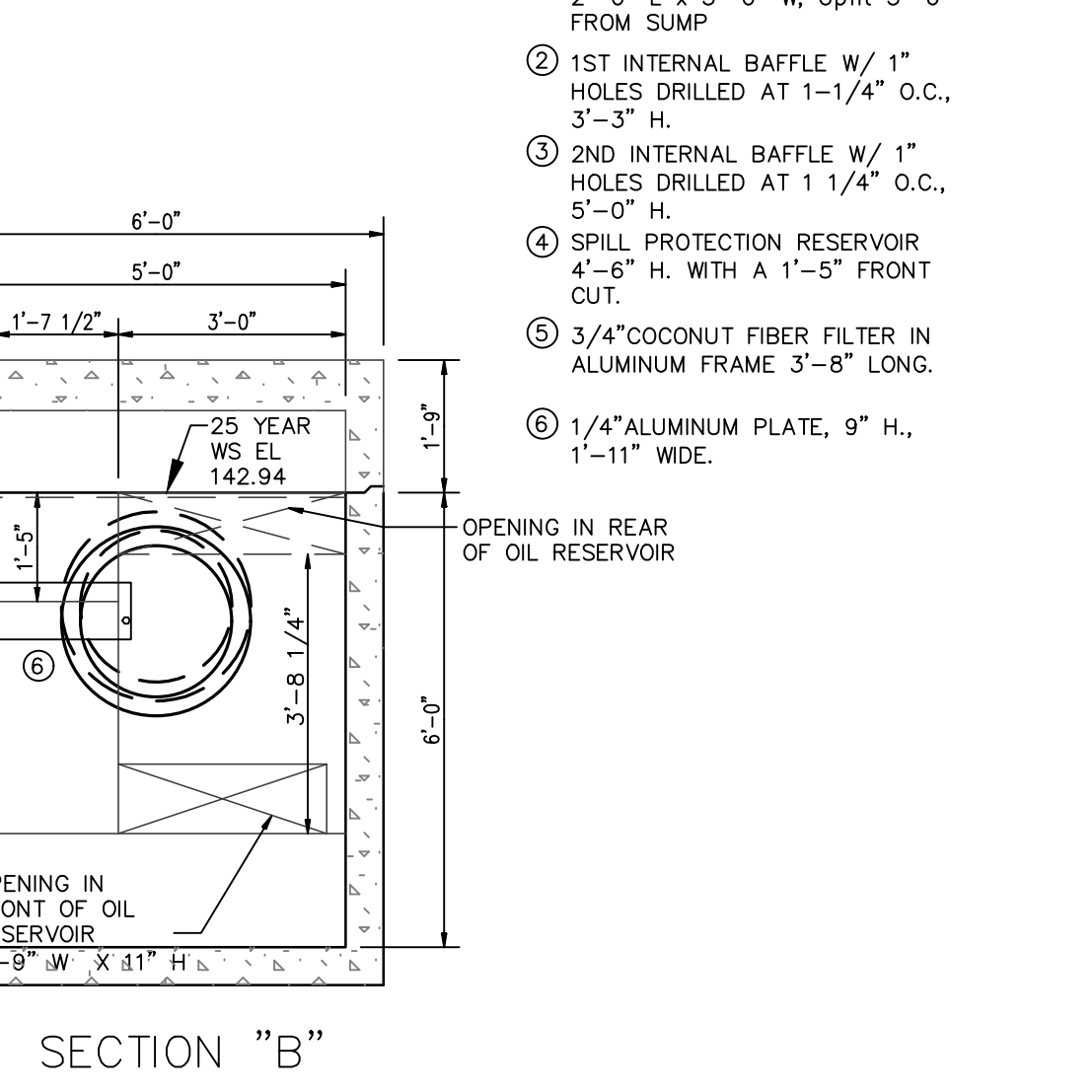
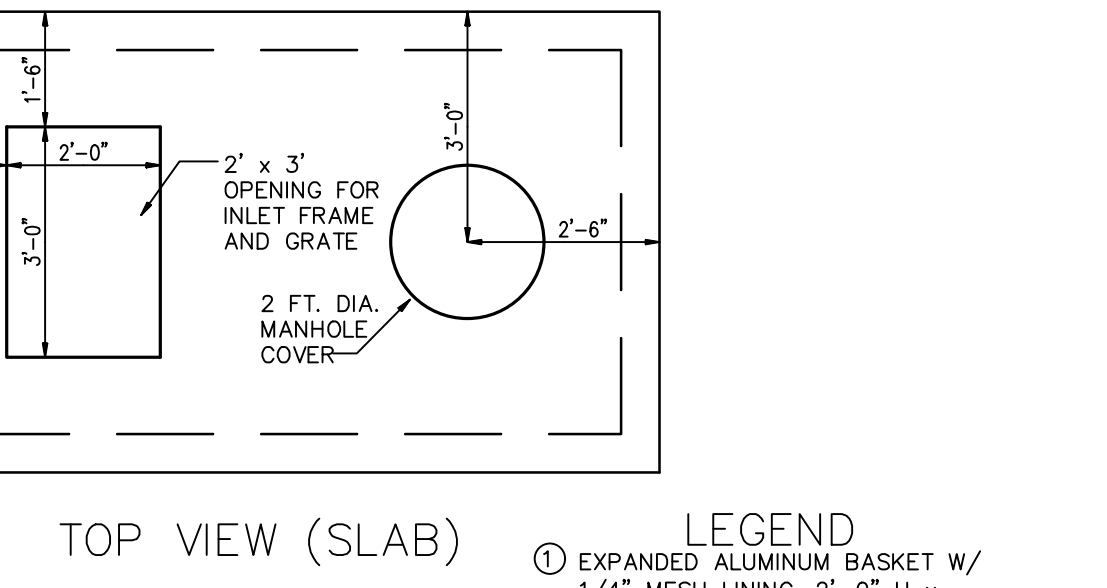
SECTION VIEW 1  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



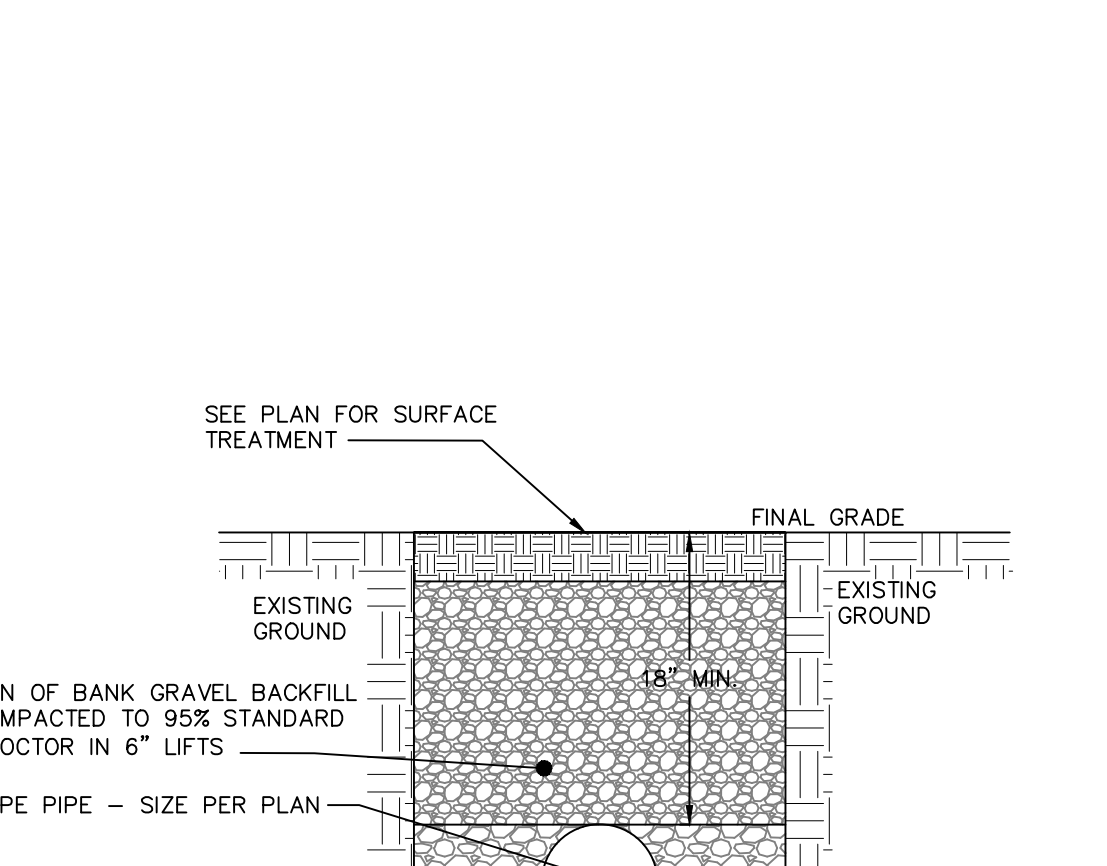
NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE

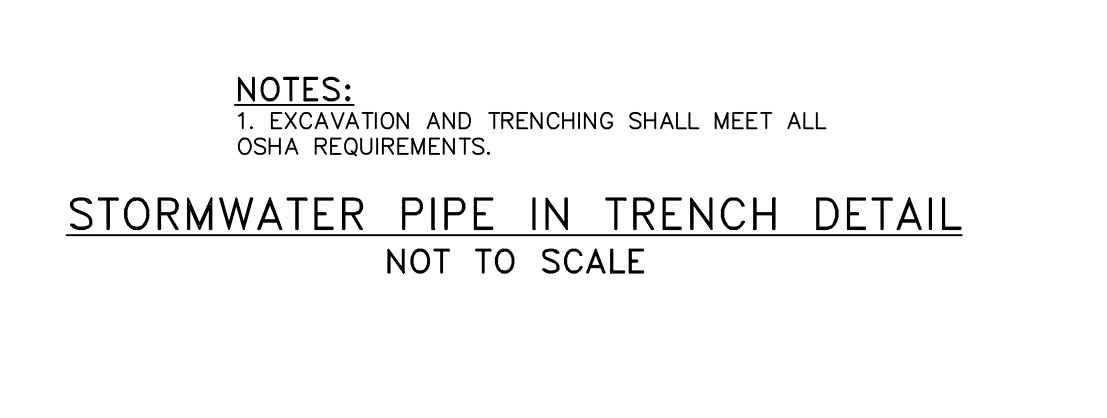


LEGEND  
① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 2'-0" H x 2'-0" L x 2'-0" W. UNIT 3'-6" FROM SUMP.  
② 1ST INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 3'-5" H.  
③ 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 5'-0" H.  
④ SPILL PROTECTION RESERVOIR 4'-0" H. WITH A 1'-5"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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE

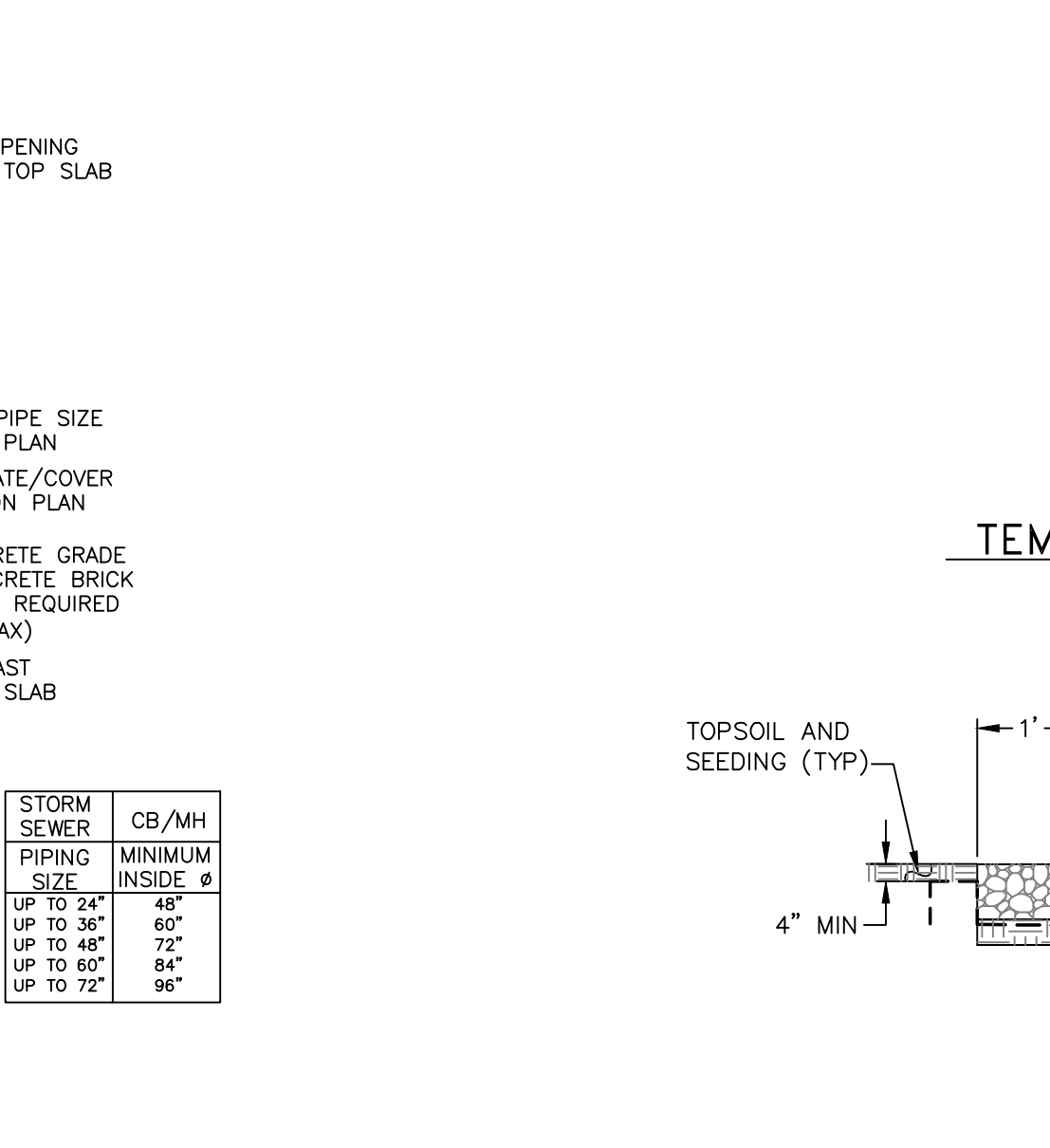


STORMWATER PIPE IN TRENCH DETAIL  
NOT TO SCALE



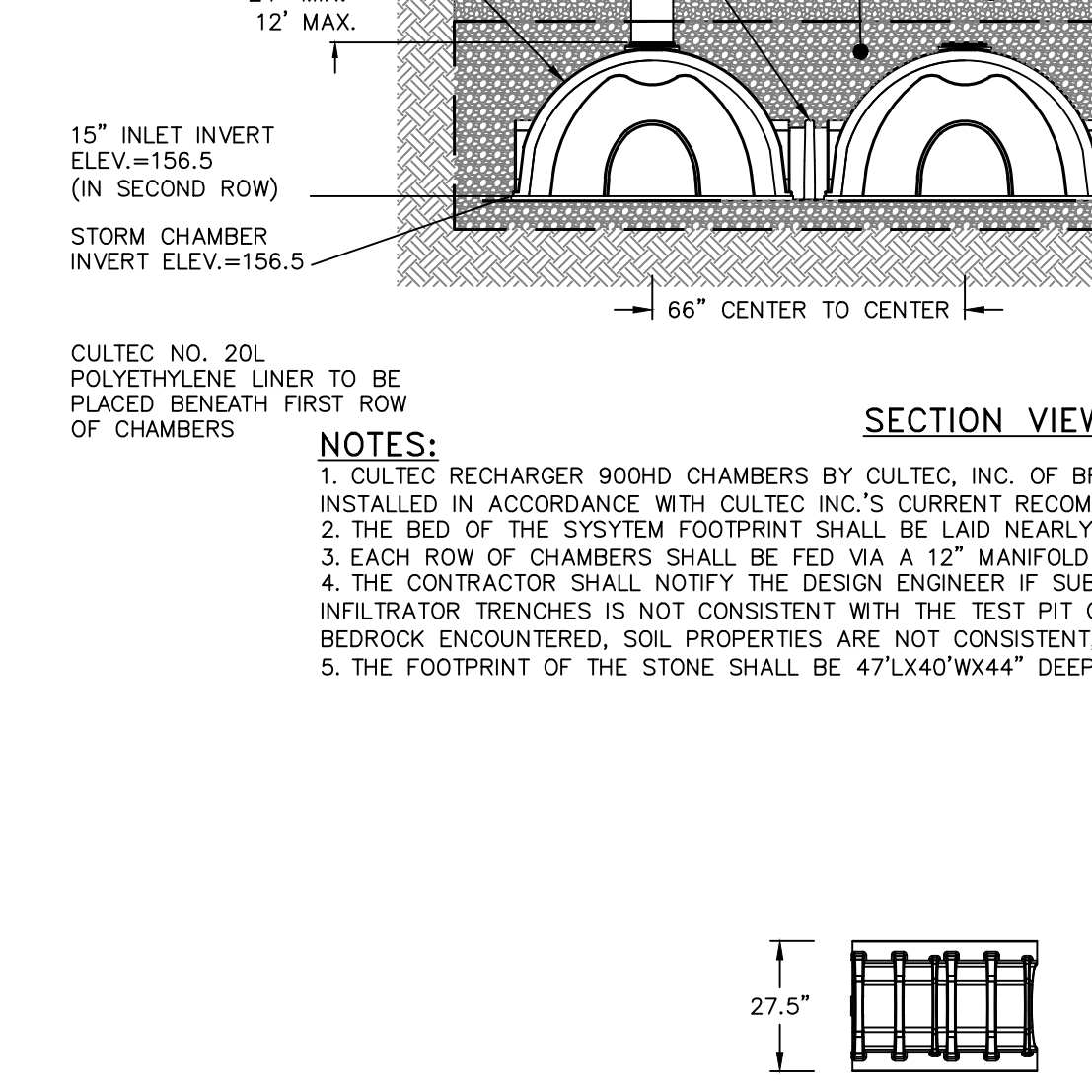
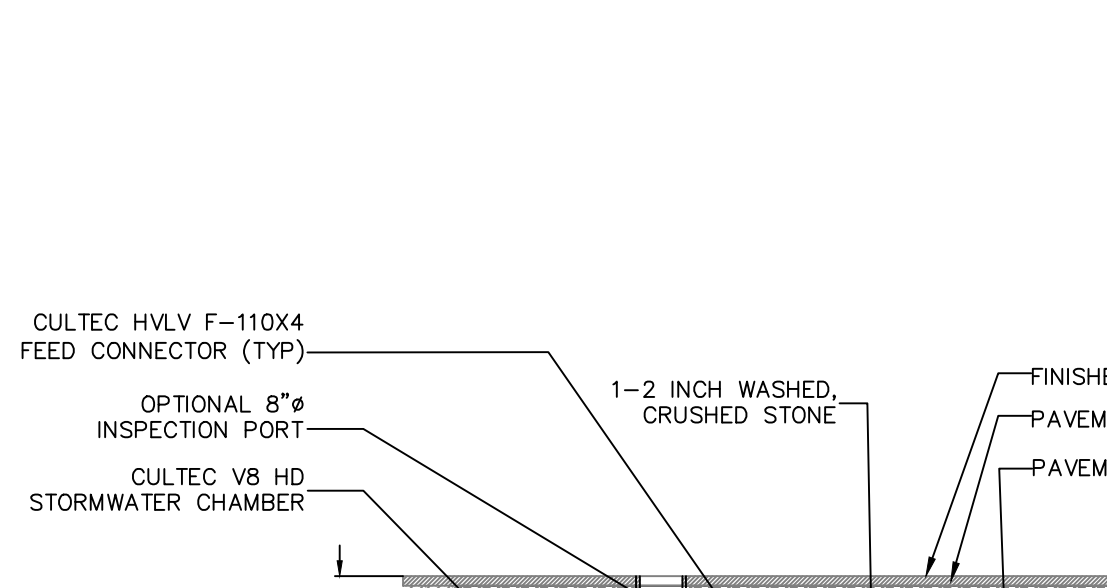
SECTION VIEW 2  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



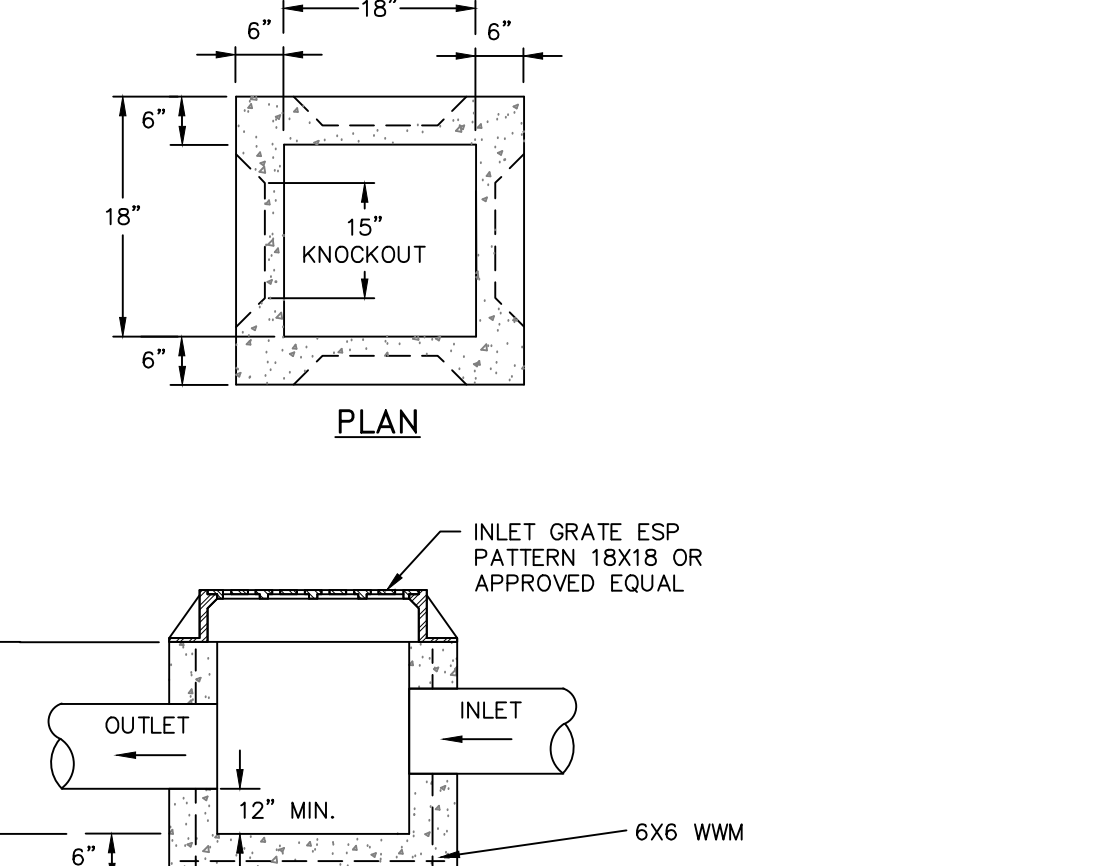
NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE

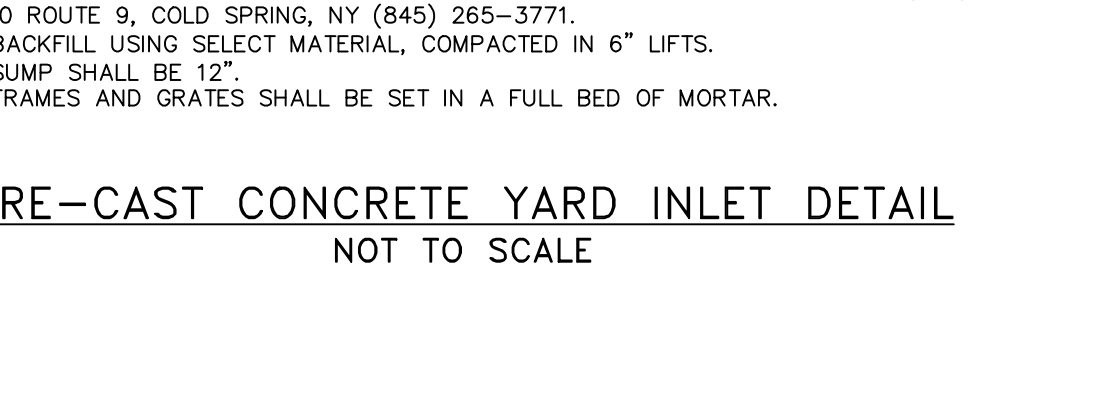


LEGEND  
① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 2'-0" H x 2'-0" L x 2'-0" W. UNIT 3'-6" FROM SUMP.  
② 1ST INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 3'-5" H.  
③ 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 5'-0" H.  
④ SPILL PROTECTION RESERVOIR 4'-0" H. WITH A 1'-5"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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE

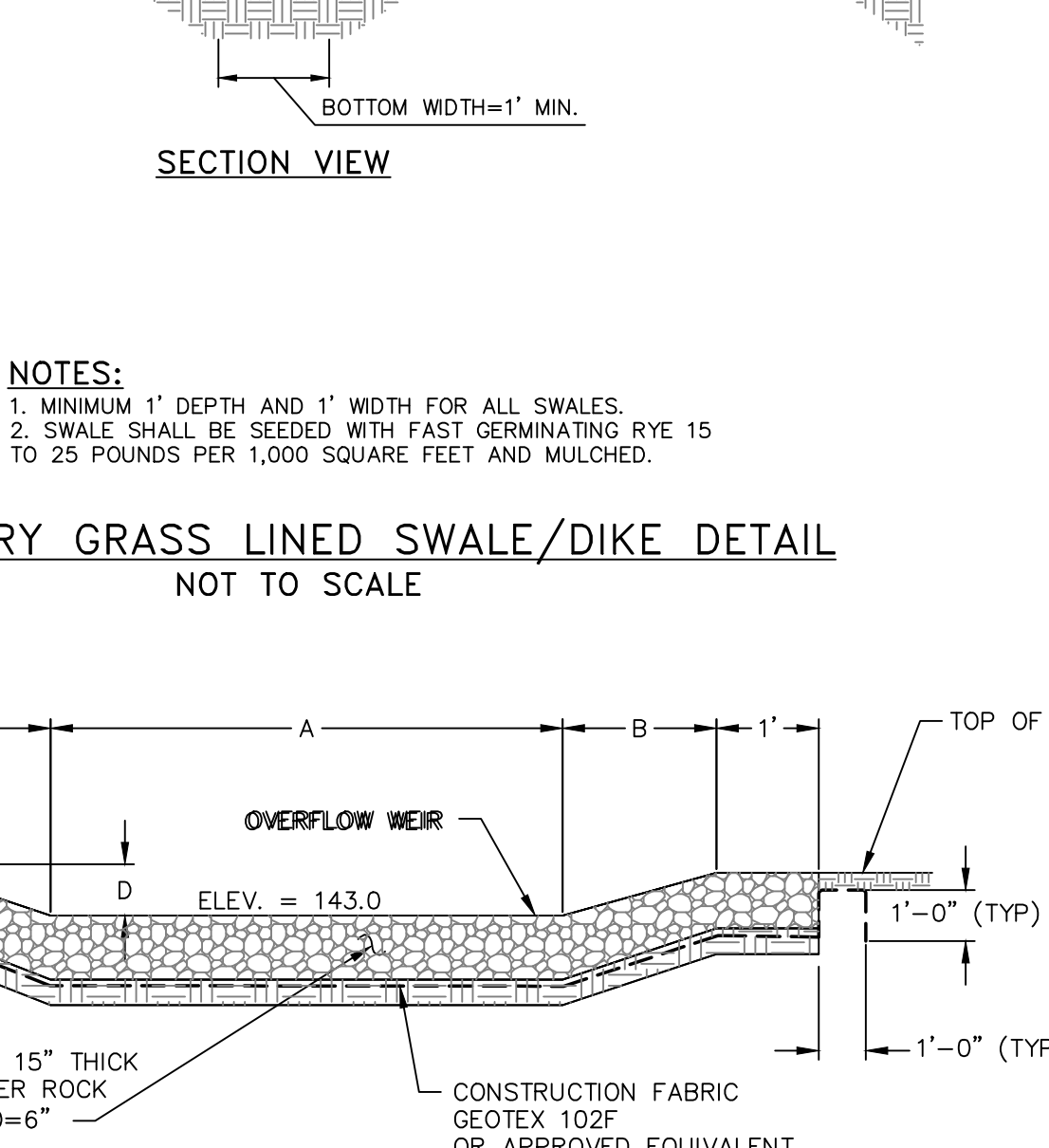


PRE-CAST CONCRETE YARD INLET DETAIL  
NOT TO SCALE



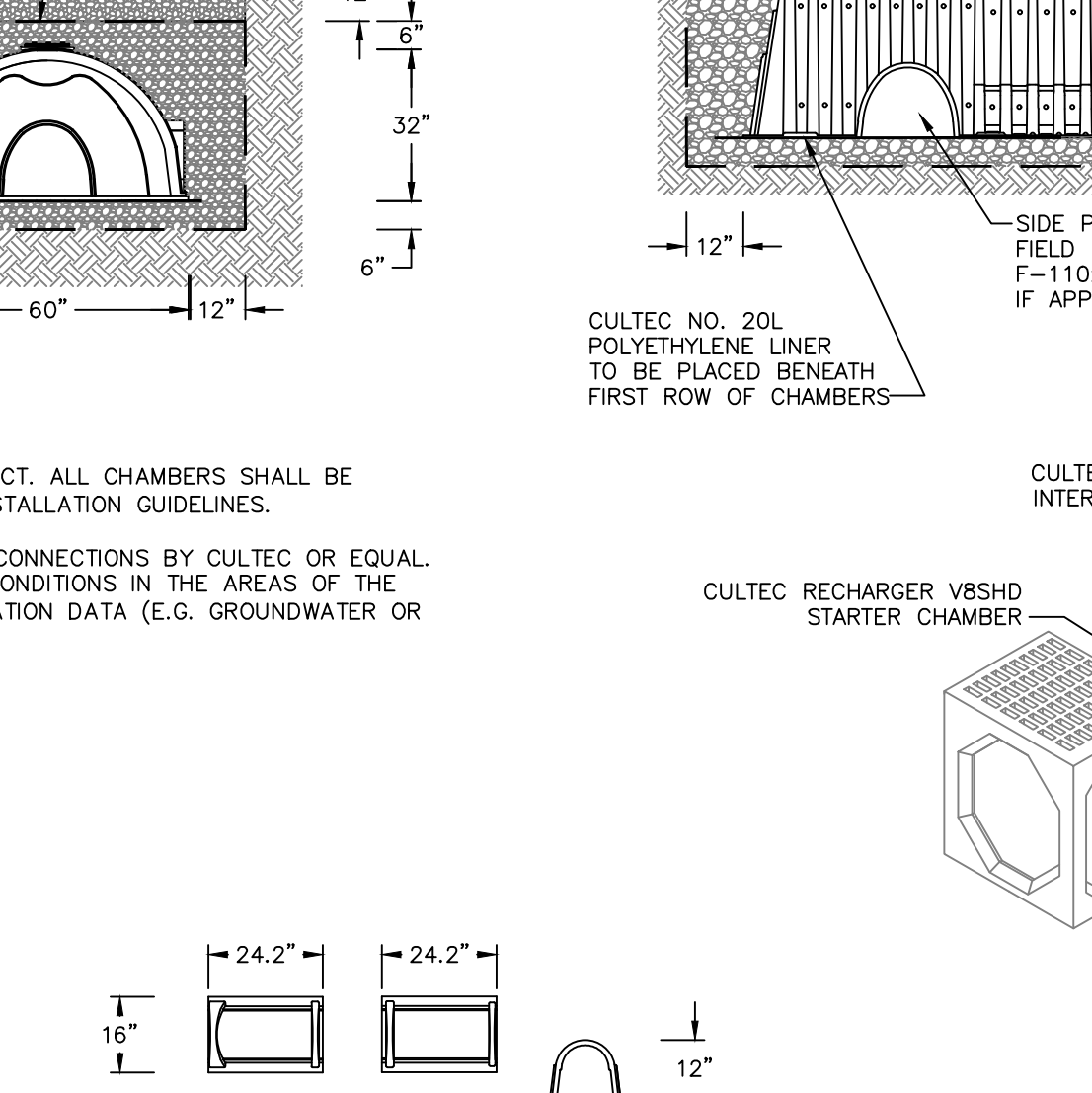
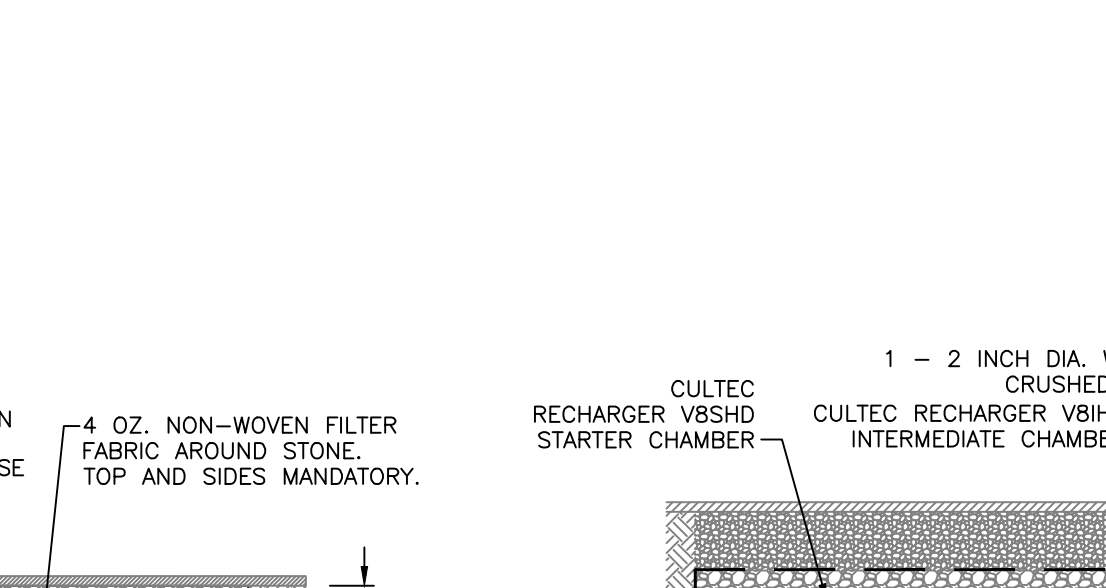
SECTION VIEW 2  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



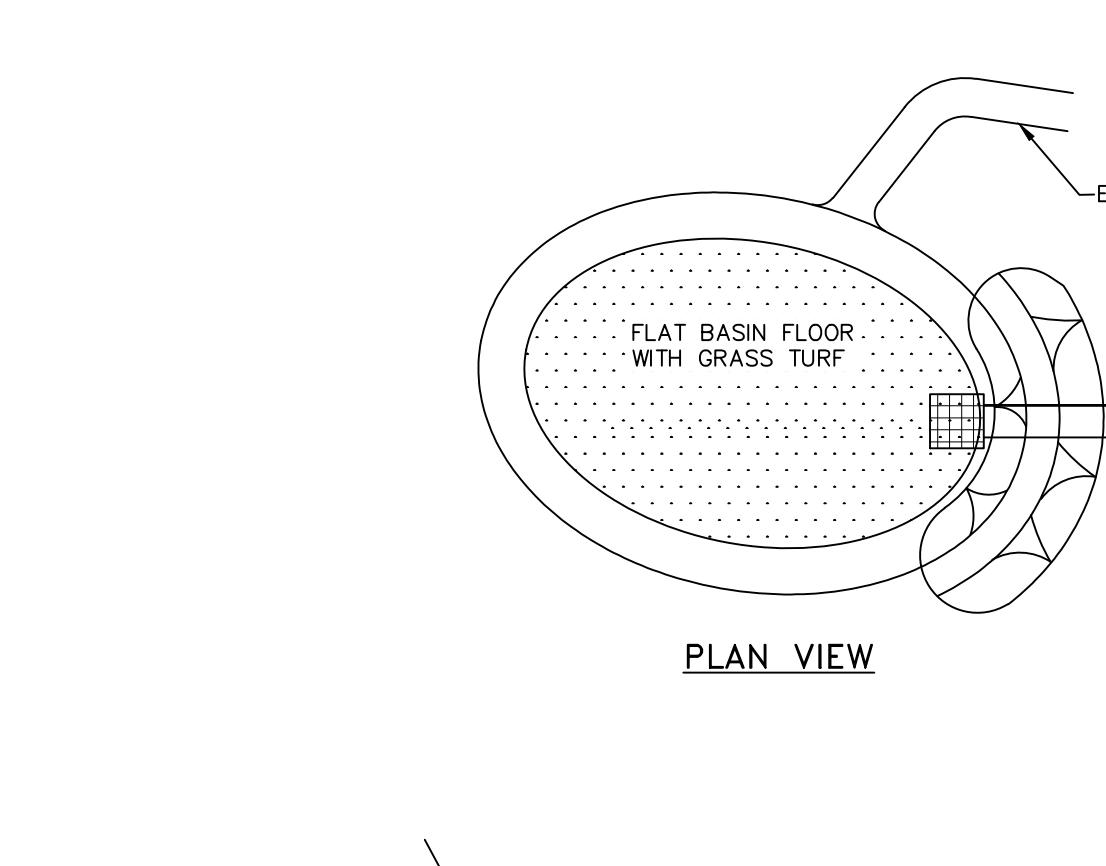
NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE

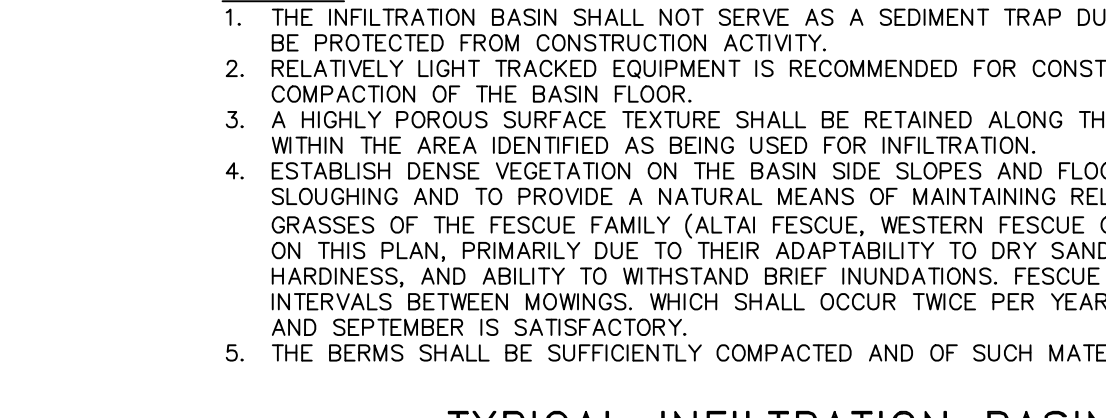


LEGEND  
① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 2'-0" H x 2'-0" L x 2'-0" W. UNIT 3'-6" FROM SUMP.  
② 1ST INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 3'-5" H.  
③ 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 5'-0" H.  
④ SPILL PROTECTION RESERVOIR 4'-0" H. WITH A 1'-5"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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE



TYPICAL INFILTRATION BASIN DETAIL  
NOT TO SCALE



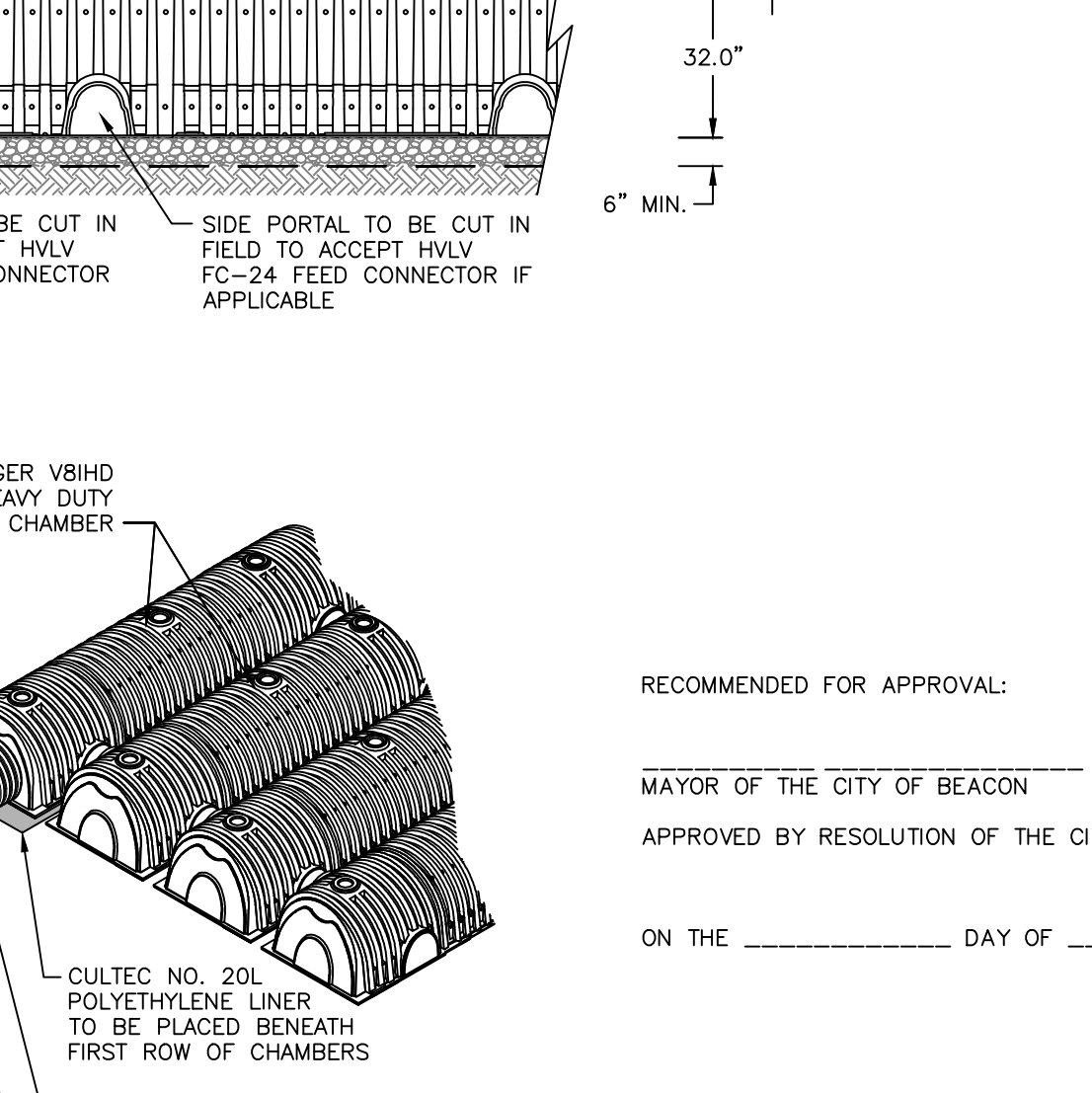
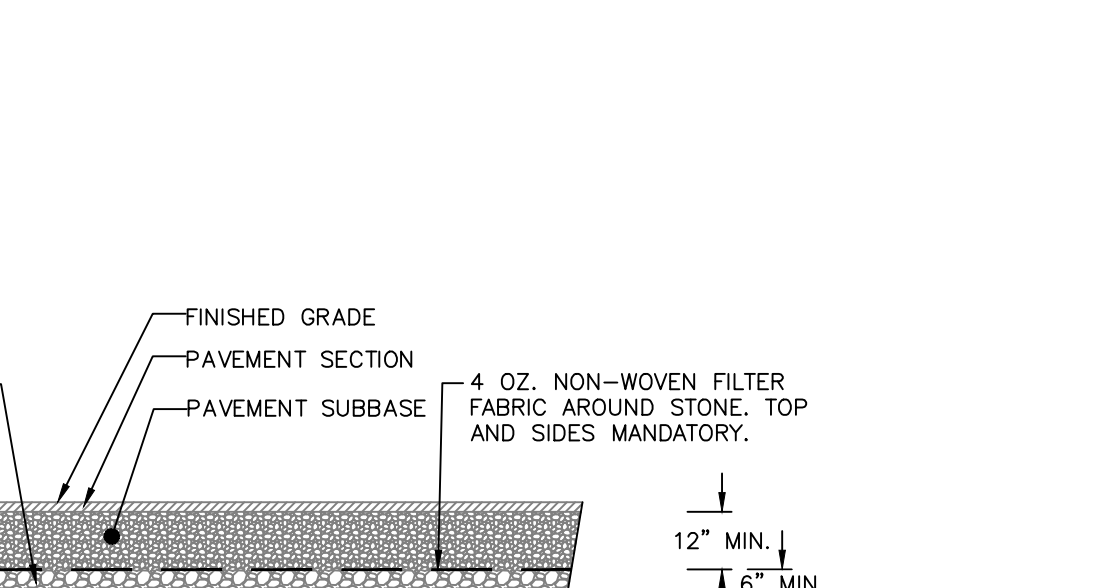
SECTION VIEW 2  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



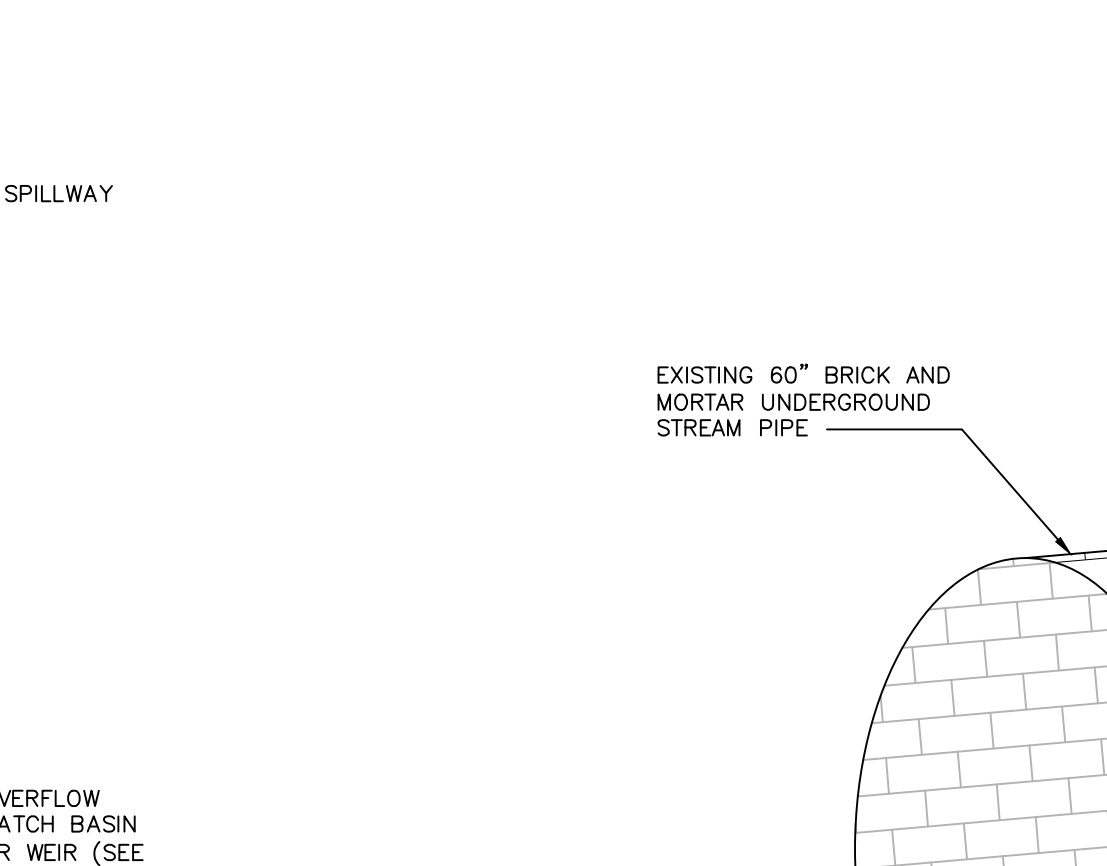
NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE

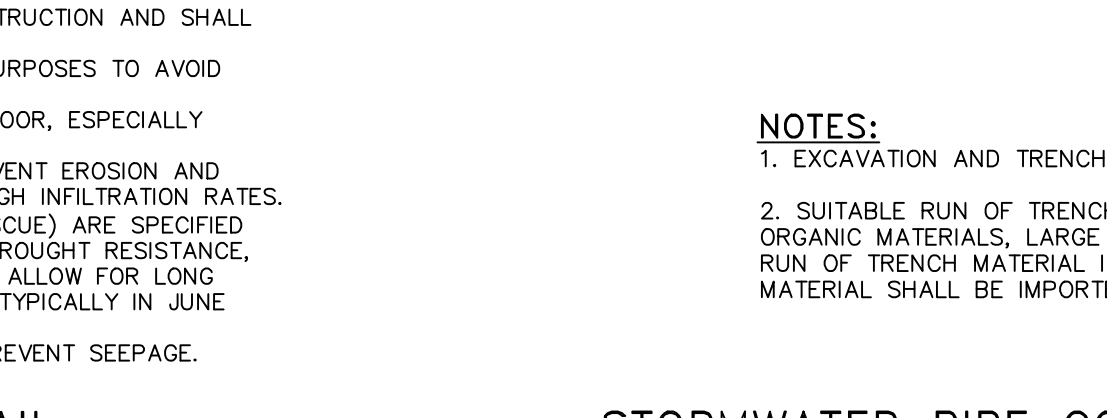


LEGEND  
① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 2'-0" H x 2'-0" L x 2'-0" W. UNIT 3'-6" FROM SUMP.  
② 1ST INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 3'-5" H.  
③ 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 5'-0" H.  
④ SPILL PROTECTION RESERVOIR 4'-0" H. WITH A 1'-5"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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE



STORMWATER PIPE CONNECTION TO U.G. STREAM DETAIL  
NOT TO SCALE



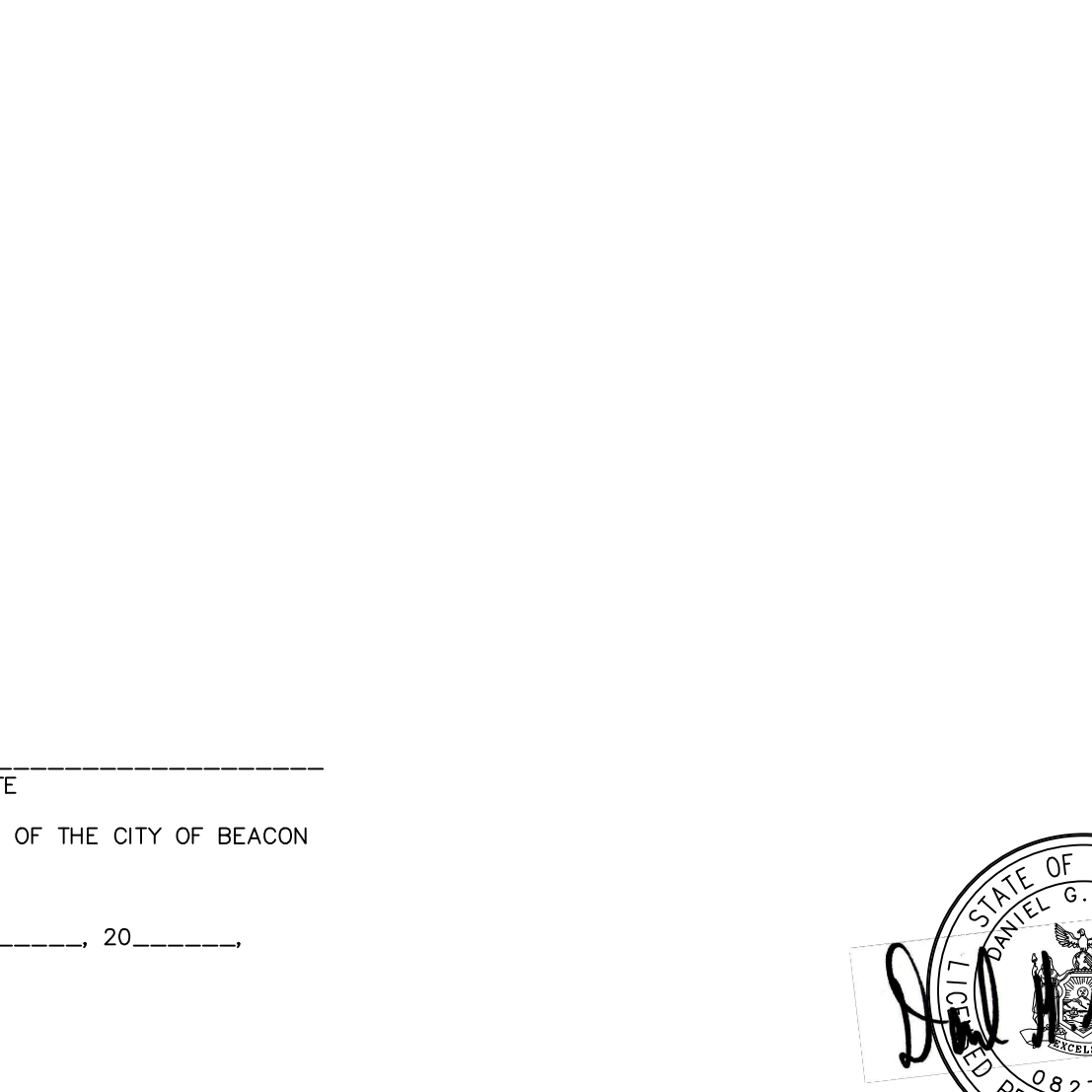
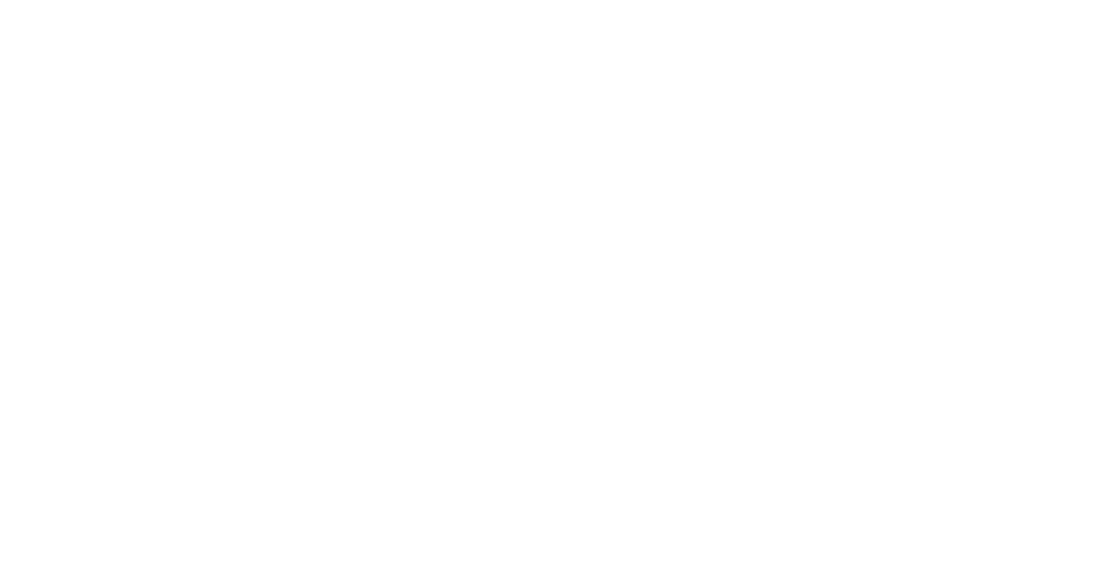
SECTION VIEW 2  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



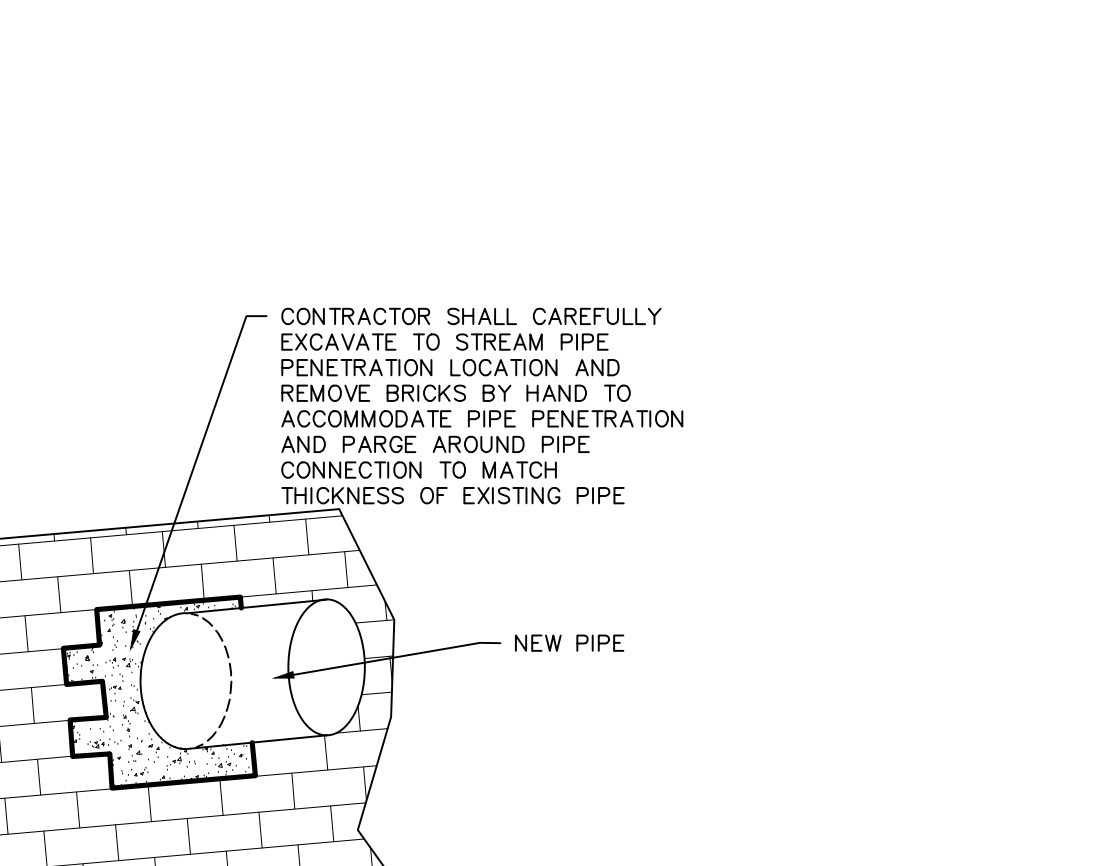
NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE

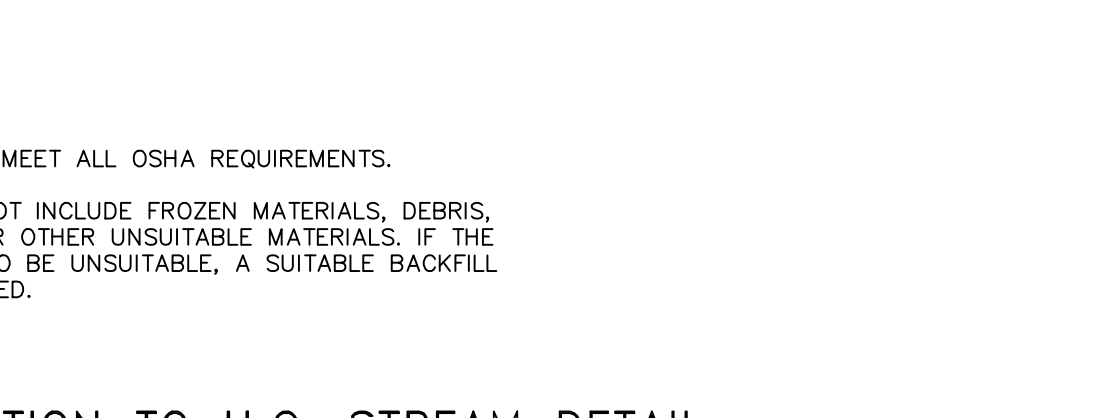


LEGEND  
① EXPANDED ALUMINUM BASKET W/ 1/4" MESH LINING, 2'-0" H x 2'-0" L x 2'-0" W. UNIT 3'-6" FROM SUMP.  
② 1ST INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 3'-5" H.  
③ 2ND INTERNAL BAFFLE W/ 1" HOLES DRILLED AT 1'-1/4" O.C., 5'-0" H.  
④ SPILL PROTECTION RESERVOIR 4'-0" H. WITH A 1'-5"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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE



STORMWATER PIPE CONNECTION TO U.G. STREAM DETAIL  
NOT TO SCALE



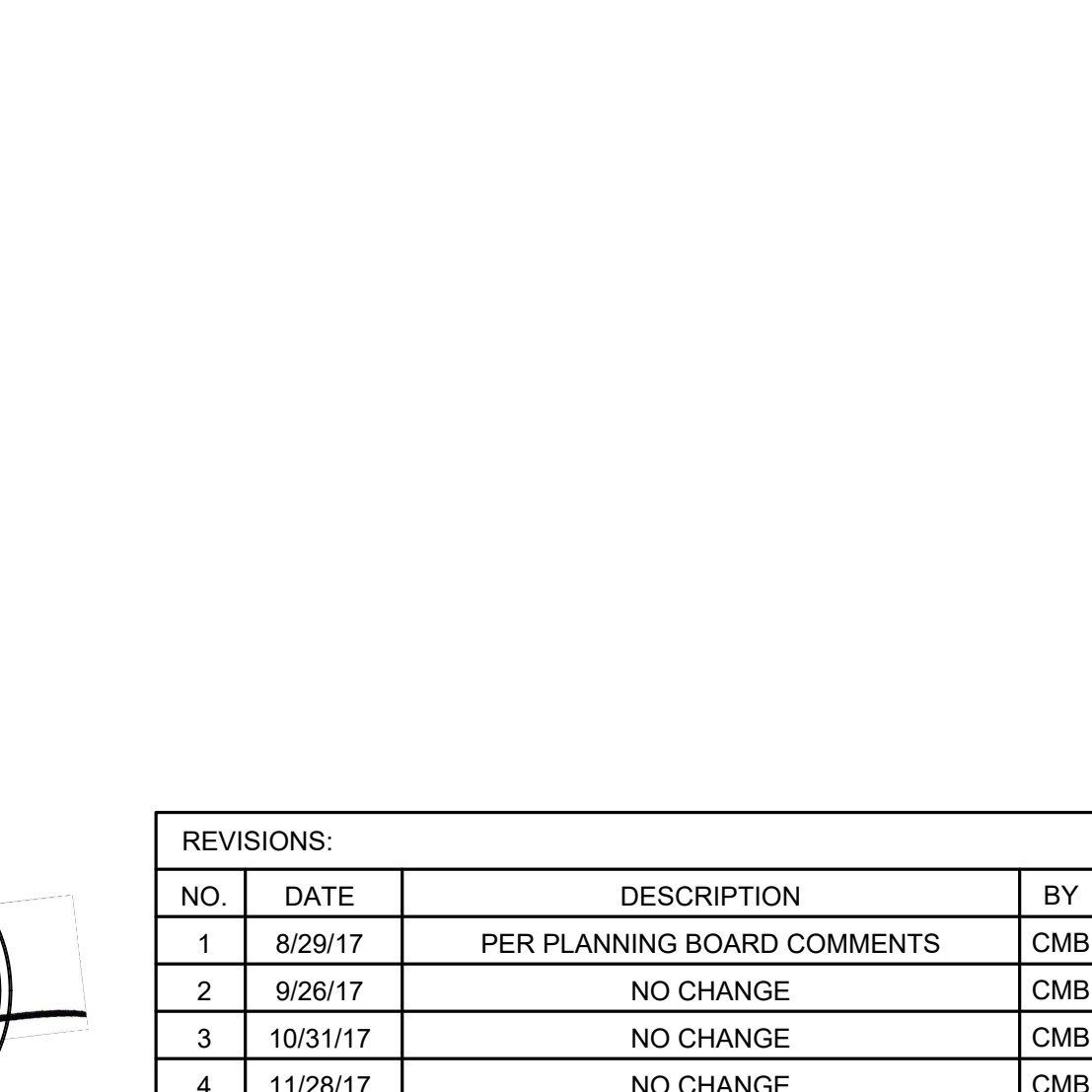
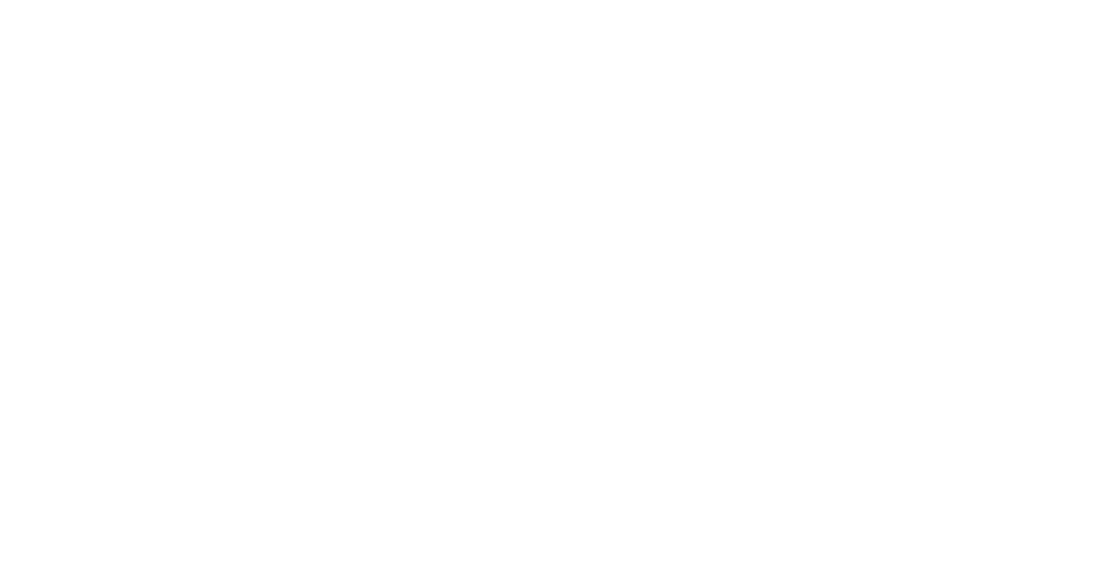
SECTION VIEW 2  
NOT TO SCALE

CAST IRON STORMWATER FLAT INLET GRATE DETAIL  
NOT TO SCALE



NOTES:  
1. PRECAST CONCRETE MANHOLE WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.  
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE MANHOLE AND PARDED AROUND.  
3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATER TIGHT.  
4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR HD TRAFFIC LOADING.  
5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR HD LOADING.  
6. MANHOLES WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.

STORMWATER MANHOLE DETAIL  
NOT TO SCALE



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

UNDERGROUND DETENTION SYSTEM DETAIL  
NOT TO SCALE