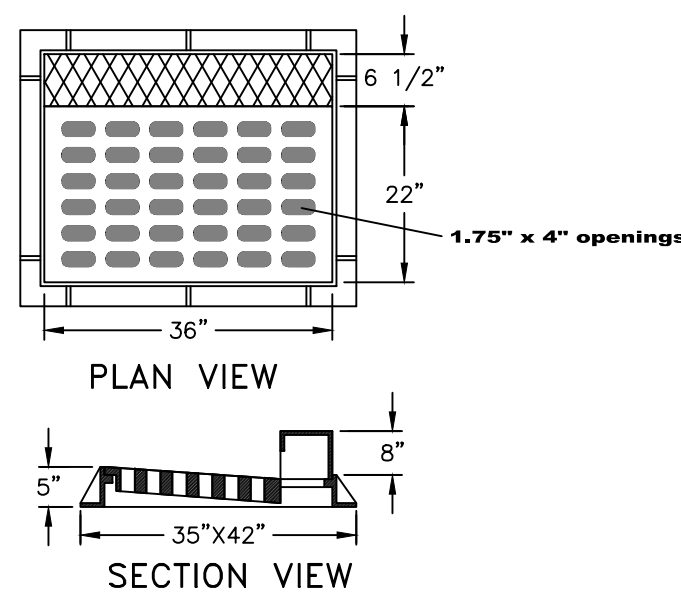


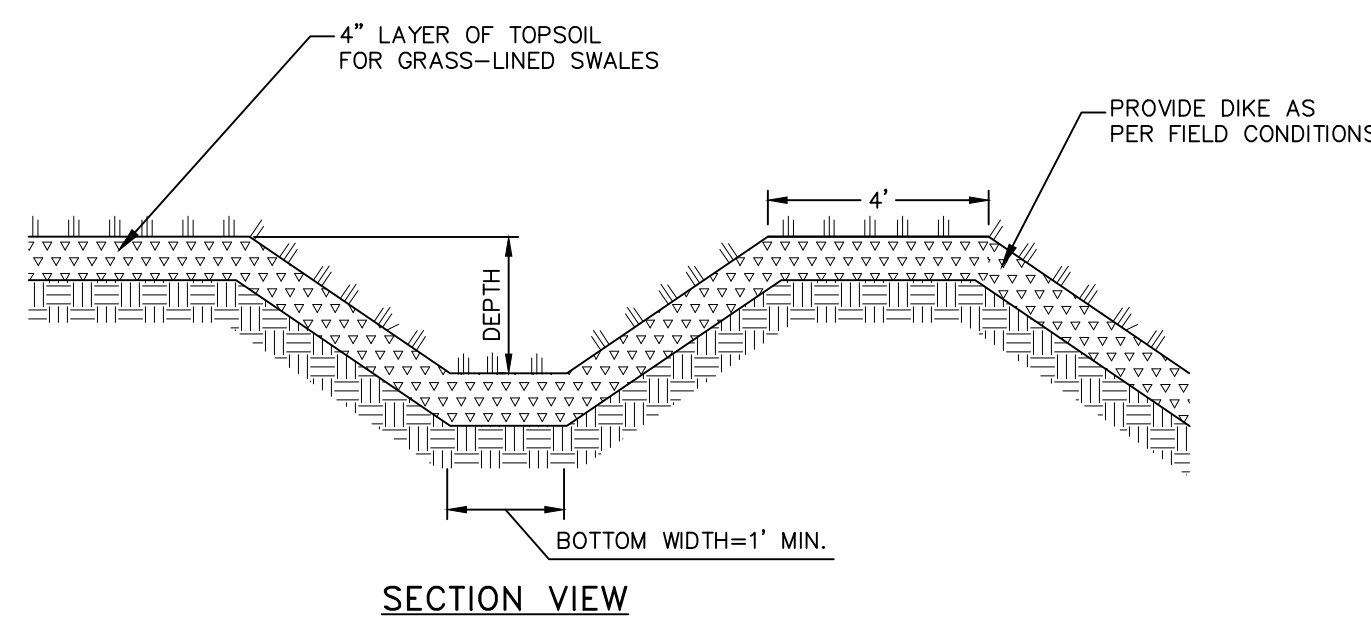
- NOTES:**
1. PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS
 2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN AND PARDED AROUND.
 3. PIPES SHALL BE PARDED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS 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 SIZES) 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. ADD MODEL N12 W118 OR APPROVED EQUAL.

CATCH BASIN DETAIL
NOT TO SCALE



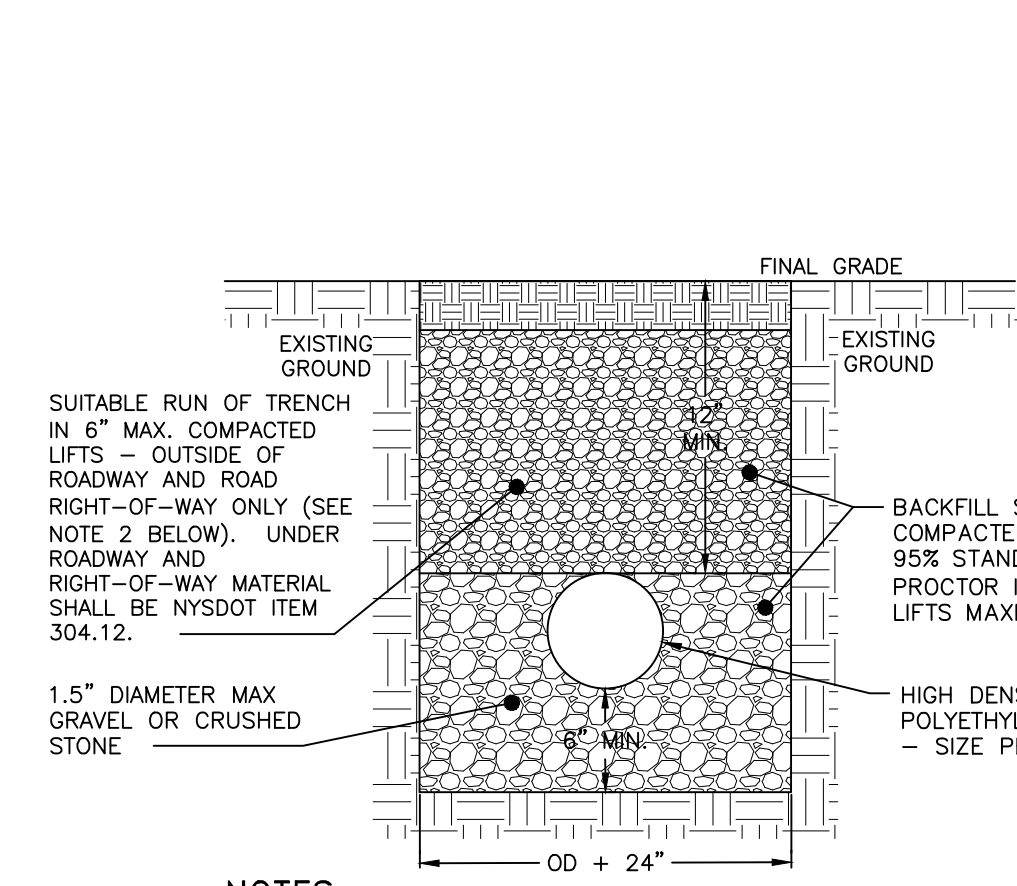
- NOTES:**
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 2541, OR APPROVED EQUAL.
 2. CATCH BASINS TO RECEIVE CURB INLETS ARE: CB 104, CB 301, CB 301A, CB 302, CB 303, CB 304, AND CB 305.

CAST IRON STORMWATER CURB INLET GRATE DETAIL
NOT TO SCALE

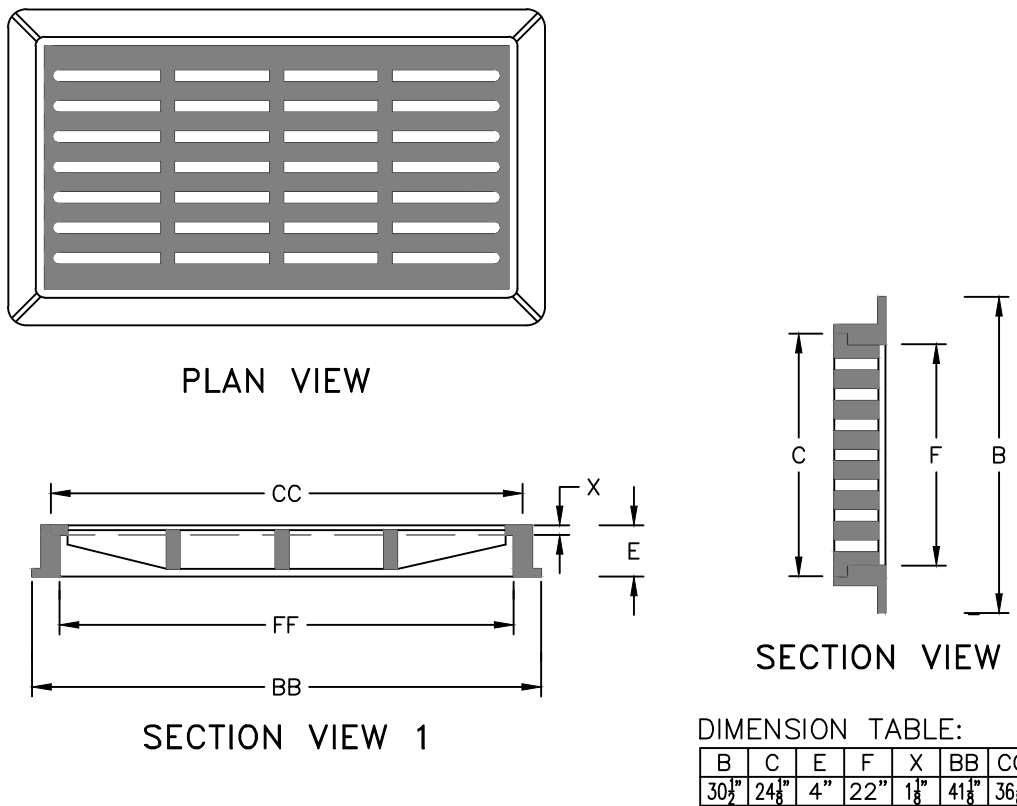


- NOTES:**
1. MINIMUM 1" DEPTH AND 1" WIDTH FOR ALL SWALES.
 2. SWALE SHALL BE SEEDED WITH FAST GERMINATING RYE 15 TO 25 POUNDS PER 1,000 SQUARE FEET AND MULCHED.

TEMPORARY GRASS LINED SWALE/DIKE DETAIL
NOT TO SCALE

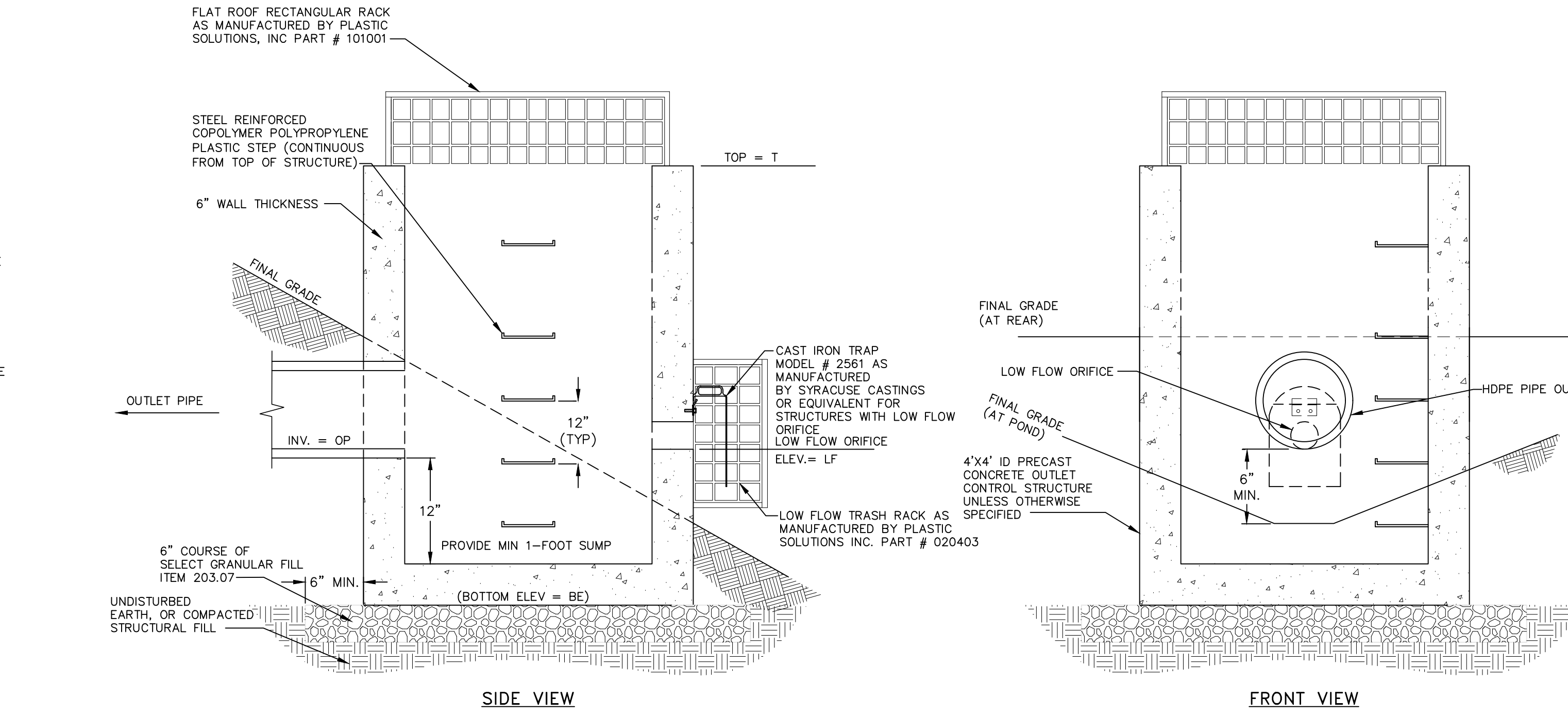


STORM LINE TRENCH DETAIL
NOT TO SCALE



- NOTES:**
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 2541, OR APPROVED EQUAL.
 2. CATCH BASINS TO RECEIVE FLAT INLETS ARE: CB 101, CB 101A, CB 102, CB 103, CB 102, CB 308, CB 309A, CB 309A AND CB 309B.
 3. DMH 1 AND DMH 3 RECEIVE SOLID CAST IRON COVERS.

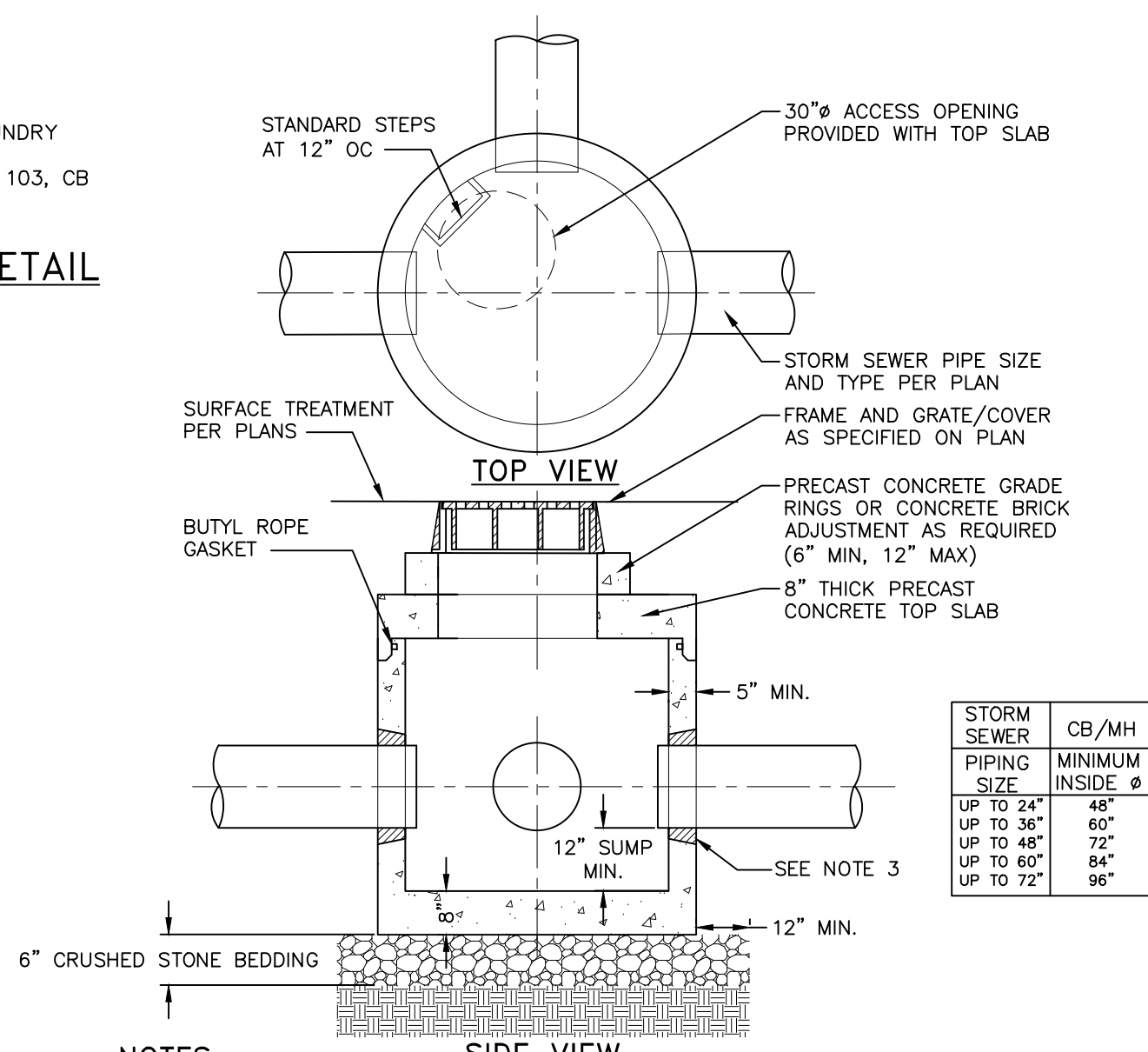
CAST IRON STORMWATER FLAT INLET GRATE DETAIL
NOT TO SCALE



OUTLET CONTROL STRUCTURE DATA									
OCS ID	STRUCTURE DIMENSIONS ORifice DM (IN)	*LF* (FT)	HIGH FLOW ORifice DM (IN)	# OF HIGH FLOW INLETS	*HF* (FT)	*1" (FT)	OUTLET PIPE # (IN)	TOP* (FT)	HIGH FLOW ORifice TRASH RACK PART #
1	4'x4' I.D.	12 x 8	95.3	NONE	NONE	N/A	96.25	15	81.00
2	4'x4' I.D.	12 x 8	64.5	NONE	NONE	N/A	66.25	24	N/A
3	4'x4' I.D.	12 x 8	59.4	NONE	NONE	N/A	61.55	15	55.00

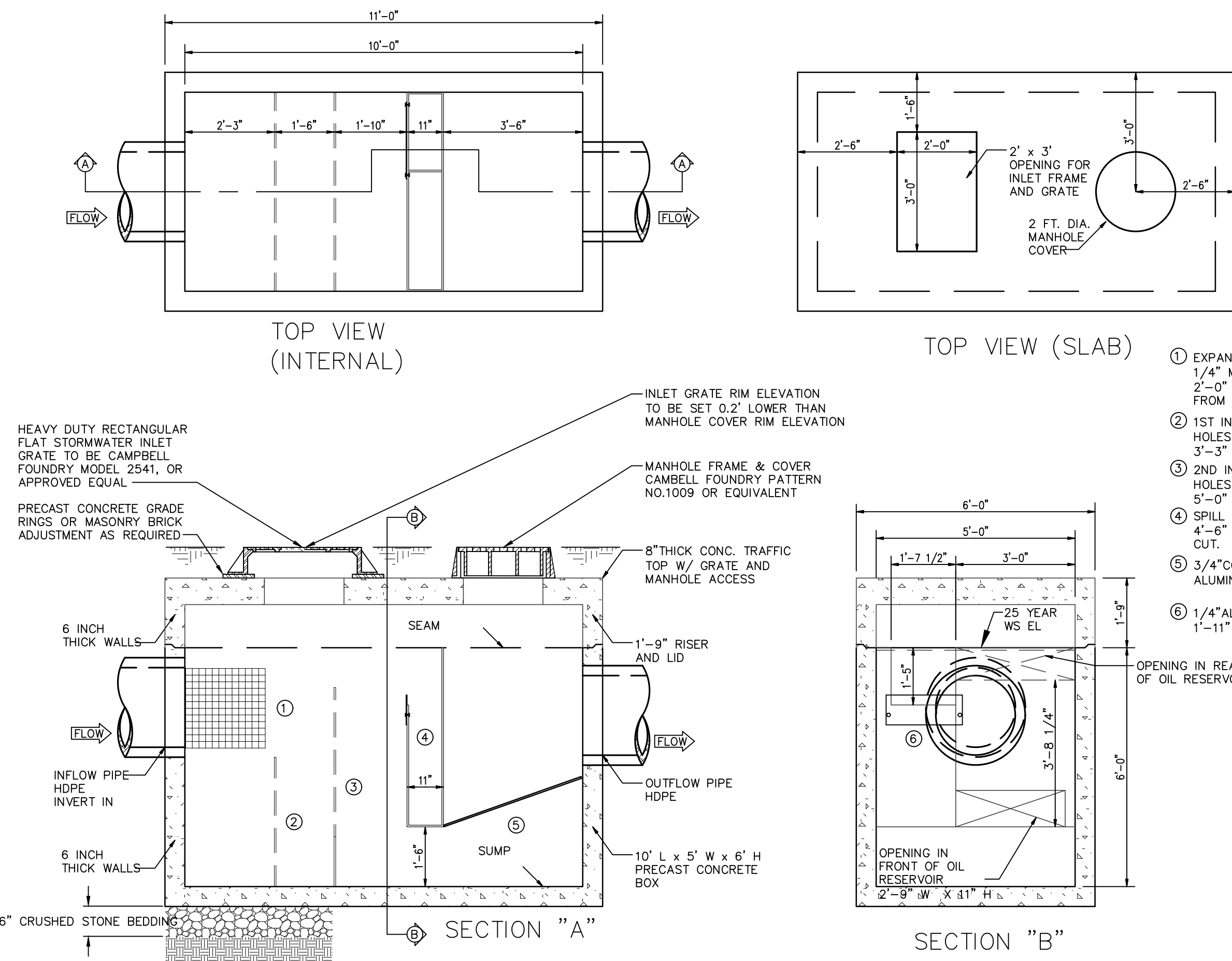
- NOTES:**
1. ALL TRASH RACKS SHALL HAVE UV PROTECTION MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D2565-99.
 2. TRASH RACKS SHALL BE SECURED PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. WHERE HIGH FLOW ORifice EXTENDS TO TOP OF STRUCTURE, THE MAXIMUM ALLOWABLE GAP BETWEEN THE TRASH RACKS SHALL BE 4".

INFILTRATION OUTLET CONTROL STRUCTURE 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.
 4. CONCRETE STRUCTURE AND CASTING SHALL BE RATED FOR H2O LOADING.
 5. INLET FRAME SHALL BE FULLY SUPPORTED ON THE CONCRETE STRUCTURE FOR H2O 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



- NOTES:**
1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 1056 BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA. 1-800-648-6345.
 2. ALL PIPES SHALL BE CONSTRUCTED TO BE FLUSH WITH THE INSIDE WALLS.
 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.

WQI DETAIL
NOT TO SCALE

RECOMMENDED FOR APPROVAL:

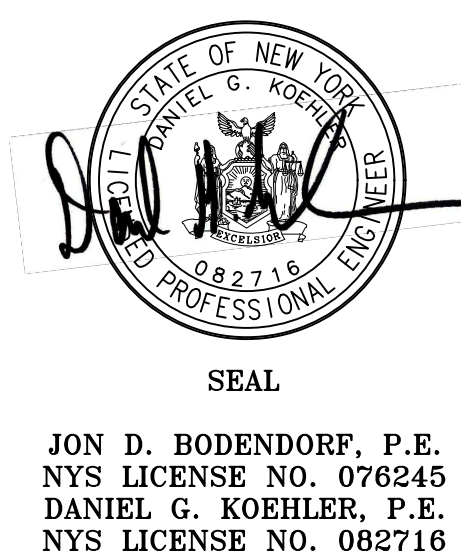
MAYOR OF THE CITY OF BEACON _____ DATE _____
APPROVED BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEACON

ON THE _____ DAY OF _____ 20____.

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE _____ DAY OF _____ 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____ 20____ BY _____ CHAIRMAN

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.



NO.	DATE	DESCRIPTION	BY
1	2/28/17	PER PLANNING BOARD COMMENTS	CMB
2	3/28/17	PER PLANNING BOARD COMMENTS	MAB
3	4/25/17	NO CHANGE THIS SHEET	MAB