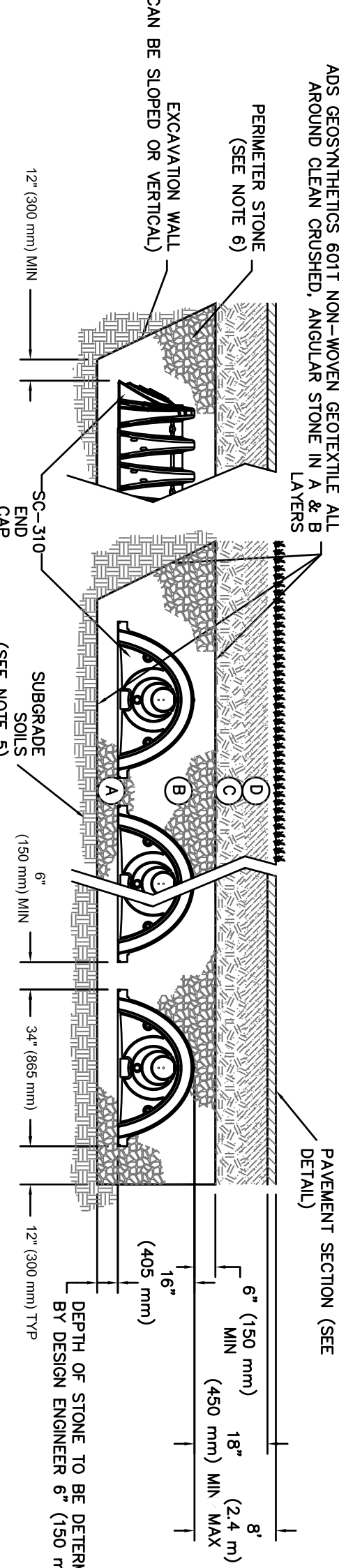


Jewish Community Alliance of Southern Maine
Proposed
Neighborhood
Center
Portland, Maine

April 03, 2015

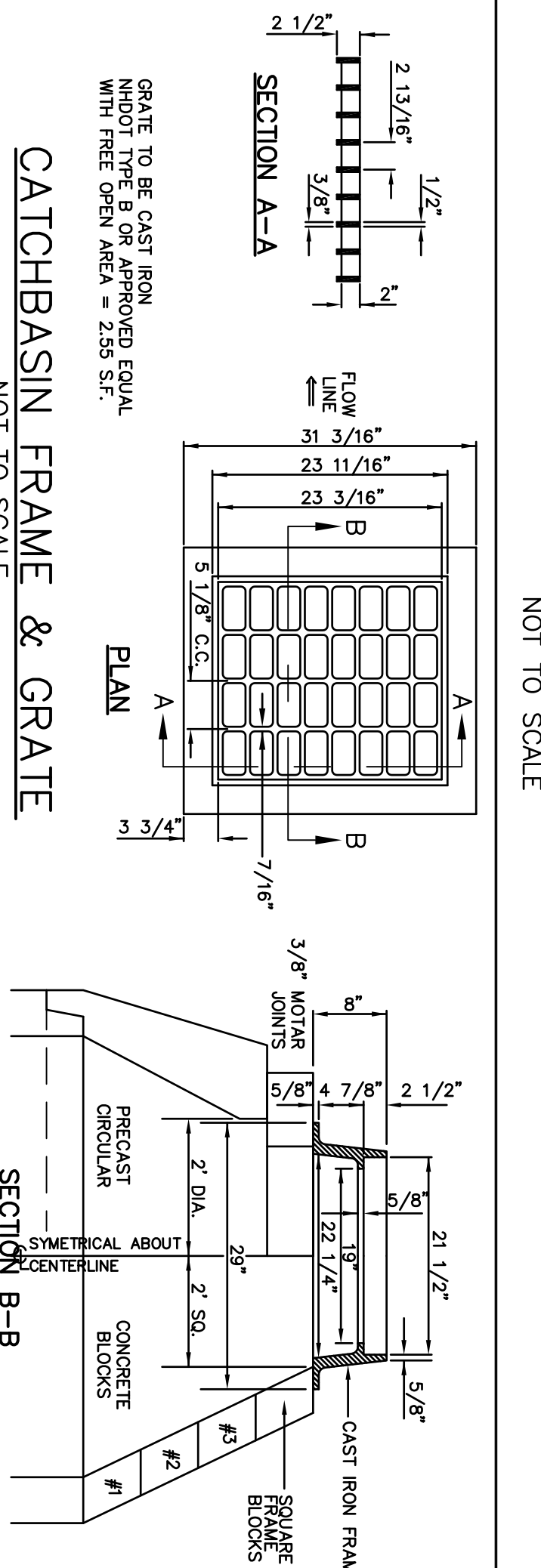
Mark	Date	Description
PROJECT NO:		J4-0096
FILE:		J0096-DETAILS.dwg
DRAWN BY:		GWH
CHECKED:		BLM
APPROVED BY:		BLM
DETAILS SHEET		
SCALE:	AS SHOWN	

MATERIAL LOCATION	DESCRIPTION	ASHTO MATERIAL CLASSIFICATION	COMPACTION / DENSITY REQUIREMENT
FINAL FILL/TILL MATERIAL FOR LAYER "D" STARTS FROM THE TOP OF THE "C" LAYER ON UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE "D" LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PREPARED MATERIAL AND PREPARATION REQUIREMENTS.
INITIAL FILL/TILL MATERIAL FOR LAYER "C" (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT THE "C" LAYER MAY BE A PART OF THE "D" LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, 3/8" FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO M45 ¹ OR ASHTO M43 ¹ 3, 397, 4, 467, 5, 56, 57 & 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTORS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT MODULAR LAYERS IN PROCTOR DENSITY FOR WELL-GRADED MATERIAL, AND SEEK RELATIVE DENSITY FOR CROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN) DYNAMIC FORCE (NOT TO EXCEED 20,000 lbs (89 kN)).
PAVEMENT STRUCTURE FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ("A" LAYER) TO THE "C" LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4"-2" (20-50 mm) (BOTTOM) OF THE CHAMBERS.	ASHTO M43 ¹ 3, 397, 4, 467, 5, 56, 57	NO COMPACTATION REQUIRED.
AUS GEOSYNTHETICS GOTT NON-WOVEN GEOTEXTILE FILL AROUND CHAMBER. ANGULAR STONE IN LAYERS PERIMETER STONE (SEE NOTE 6)	EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)	ASHTO M43 ¹ 3, 397, 4, 467, 5, 56, 57	DEPTH OF STONE TO BE DETERMINED BY DESIGN ENGINEER 8" (150 mm) MIN



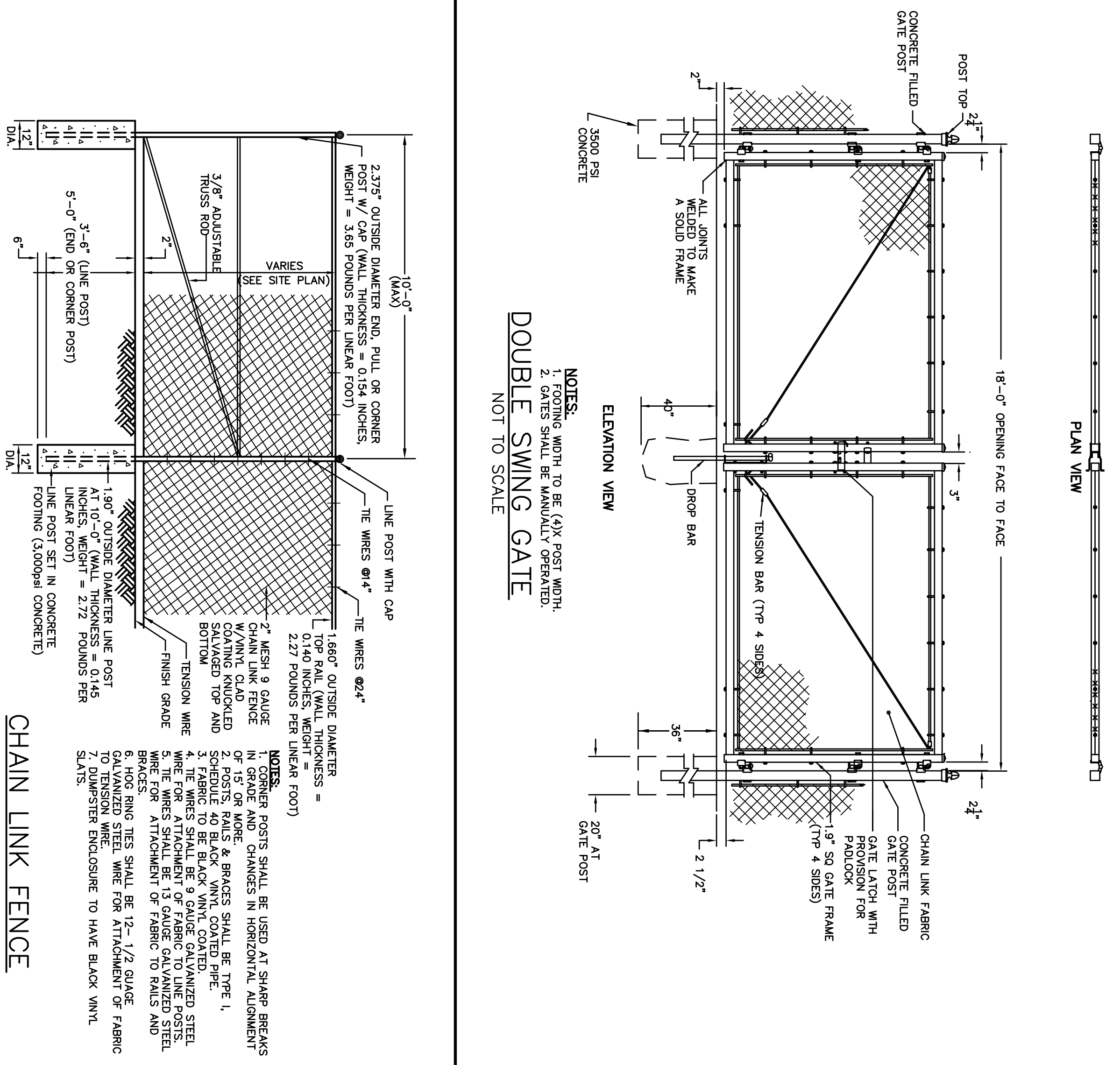
- NOTES:**
- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2797 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
 - THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - ONCE LAYER "C" IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER "D" UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER "C" OR "D" AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH CHAMBER SC-310 DETAIL
NOT TO SCALE



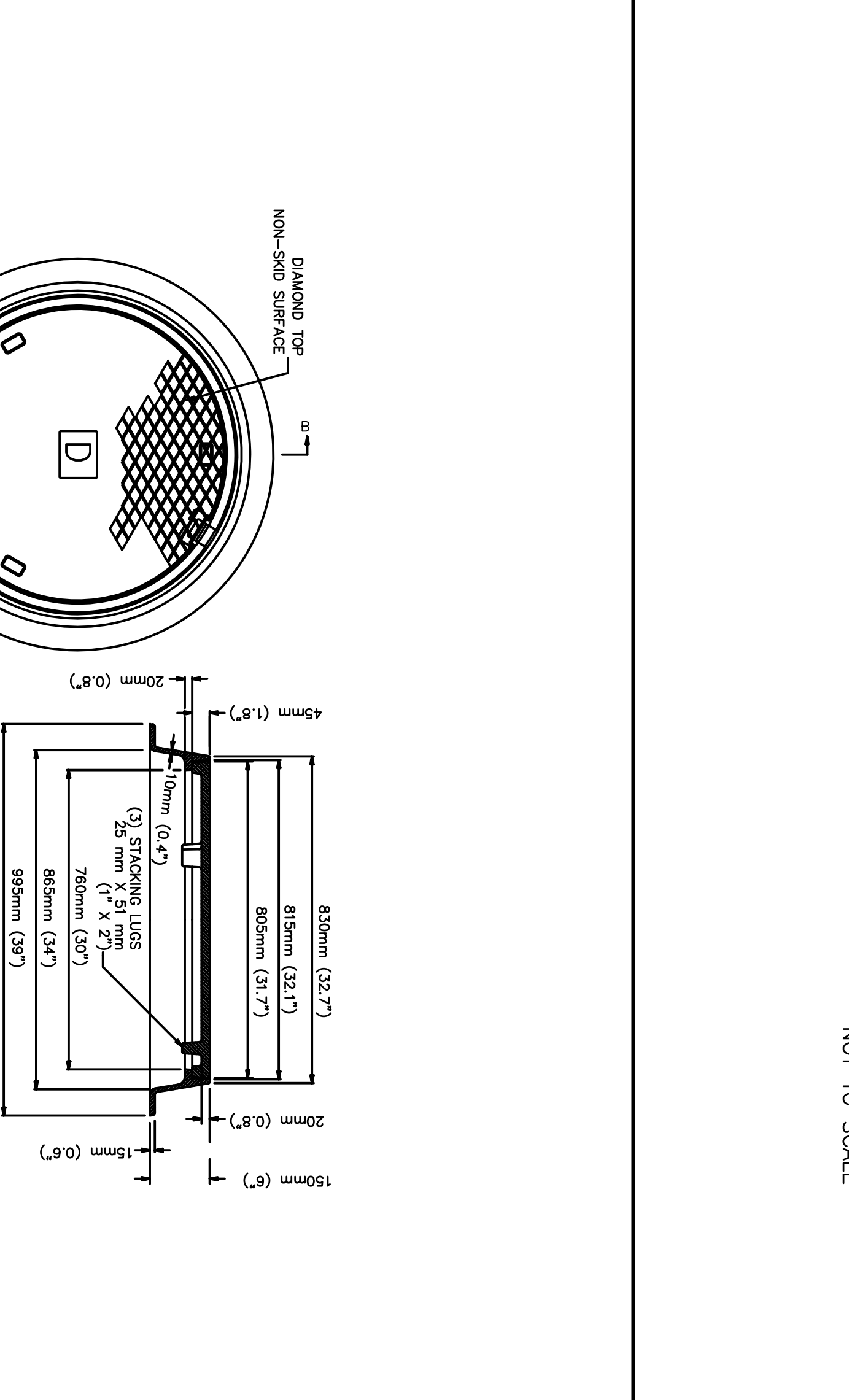
CATCHBASIN FRAME & GRATE
NOT TO SCALE

DOUBLE SWING GATE
NOT TO SCALE



- NOTES:**
- FOOTING WIDTH TO BE (4X) POST WIDTH.
 - GATES SHALL BE MANUALLY OPERATED.

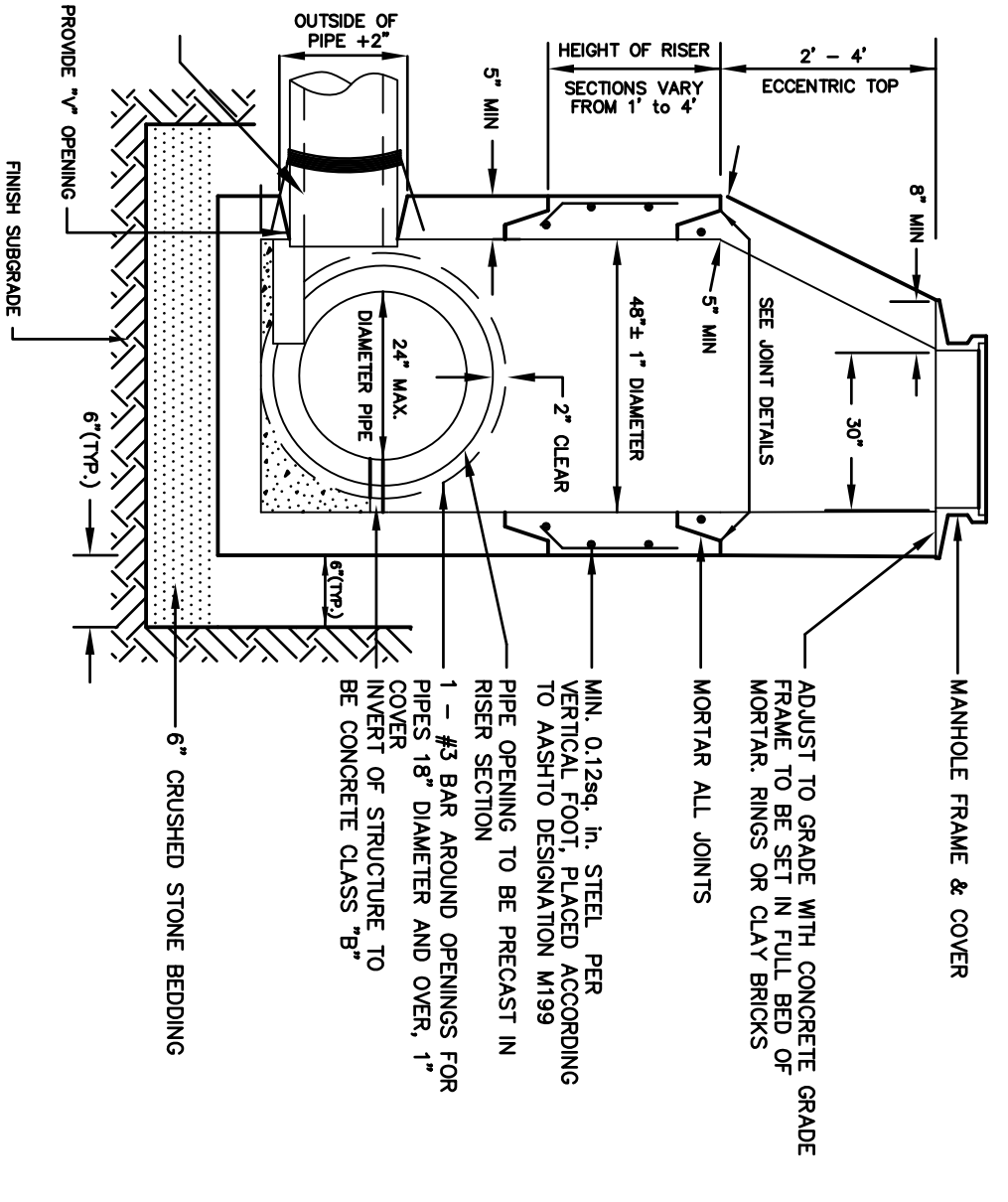
CHAIN LINK FENCE
NOT TO SCALE



DRAIN MANHOLE FRAME & COVER
NOT TO SCALE

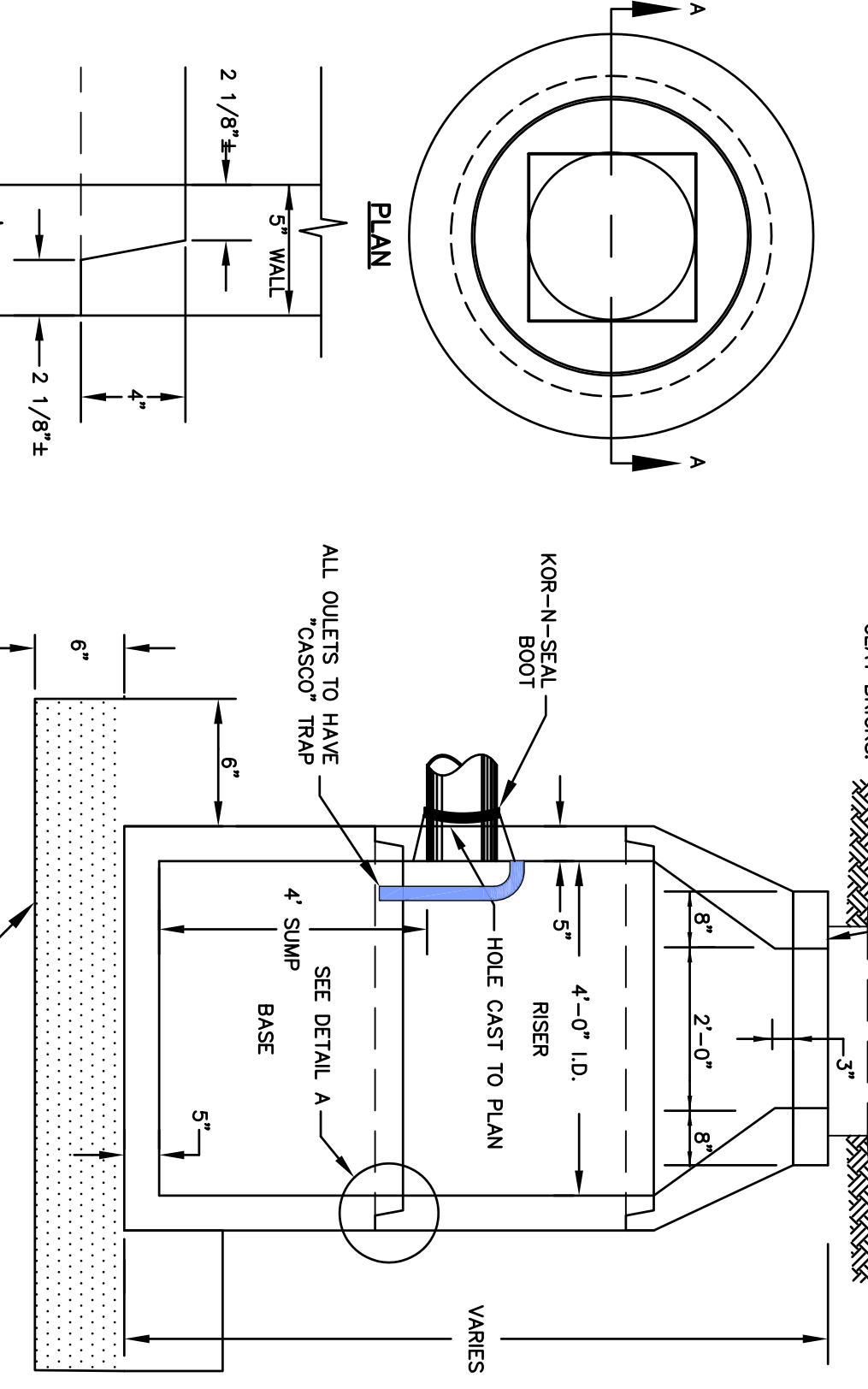
- NOTES:**
- ALL DIMENSIONS ARE NOMINAL.
 - 7.5 mm (3/8") HIGH LETTER "D" IN THE CENTER OF THE COVER.

DRAIN MANHOLE (4' DIA)
NOT TO SCALE



- NOTES:**
- ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
 - CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE COVER AND JOINTS.
 - THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
 - THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.

DETAIL A (4' DIA)
SECTION A-A



- NOTES:**
- (TONGUE & GROOVE JOINT)
 - SECTIONS SHALL BE CONCRETE CLASS AK4000 (M3).
 - CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER OF THE COVER AND JOINTS.
 - THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT. CAN BE USED TO REACH DESIRED DEPTH.
 - THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
 - ONE STRIP OF BUTYL RUBBER SEALANT.

CATCHBASIN
NOT TO SCALE

