

PROJECT NAME
PROJECT LOCATION



NDS STORMCHAMBER SYSTEM SPECIFICATIONS

1. CHAMBERS SHALL BE NDS STORMCHAMBER .
2. CHAMBERS SHALL BE ARCH SHAPED AND SHALL BE MANUFACTURED FROM HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE.
3. CHAMBERS MEET OR EXCEED ASTM F2922 AND ASTM F2787. MEET AASHTO HS-20, HS-25 AND HL-93 LIVE LOADING PER AASHTO LRFD SECTION 12.
4. MANUFACTURED NOMINAL DIMENSIONS OF START, MIDDLE AND END CHAMBERS
 - SC18 3.17 FT WIDE X 18 INCHES TALL.
 - SC34 5 FT WIDE X 34 INCHES TALL.
 - SC44 6.35 FT WIDE X 44 INCHES TALL.
5. MINIMUM COVER FOR SC18 AND SC34 IS 18 INCHES, MINIMUM COVER FOR SC44 IS 22 INCHES .
6. SEDIMENTRAP MANUFACTURED WITH HIGH MOLECULAR WEIGHT, HIGH DENSITY POLYETHYLENE.
7. NON-WOVEN POLYPROPYLENE FILTER FABRIC TMG-4OZNWG BY TMPG OR APPROVED EQUAL
8. WOVEN POLYPROPYLENE FILTER FABRIC 300HTM BY WINFAB OR APPROVED EQUAL.
9. THE PERFORMANCE OF NDS STORMCHAMBER™ IS DIRECTLY CORRELATED TO THE LOAD BEARING CAPACITY, PLASTICITY, AND PERMEABILITY OF NATIVE SOIL; FROST-HEAVE POTENTIAL; VOLUME AND LOAD-RATING OF PROJECT TRAFFIC; INSTALLATION METHODS USED; AS WELL AS THE TYPE, GRADATION, AND THICKNESS OF THE SURROUNDING AND OVERLAY ROCK.

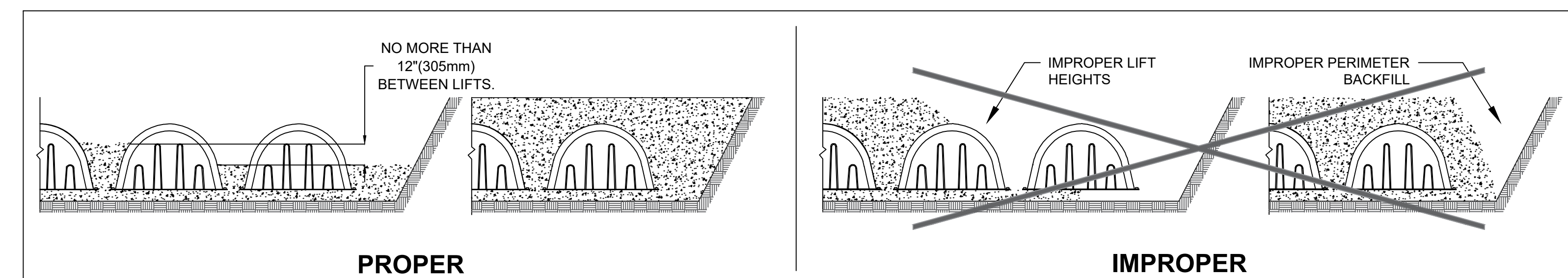
REQUIREMENTS FOR CONSTRUCTION EQUIPMENT

1. NDS RECOMMENDS 3 BACKFILL METHODS, STONESHOTTER LOCATED OFF THE CHAMBER BED, BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE AND BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. CONVEYORS OR EXCAVATORS SHOULD BE LOCATED SUCH THAT THEIR LOADS DO NOT INFLUENCE THE CHAMBERS SHOULD BE USED TO PLACE BACKFILL STONE.
2. NO CONSTRUCTION EQUIPMENT ALLOWED ON TOP OF THE CHAMBER SYSTEM UNTIL MINIMUM STONE COVER REQUIREMENTS HAVE BEEN MET, 6-INCH FOR SC-18 AND SC-34 AND 12-INCH FOR SC-44, ONLY THEN SHOULD A SKID STEER OR SMALL DOZER (D4) BE ALLOWED ON TOP.
3. NO WHEEL LOADS SHOULD BE APPLIED OVER THE SYSTEM. ONCE THE MINIMUM STONE HAS BEEN PLACED OVER THE CROWN OF THE CHAMBERS, ONLY SMALL WALK BEHIND VIBRATORY COMPACTION EQUIPMENT CAN BE USED UNTIL A 12 INCHES OF COVER IS ACHIEVED. LIGHTWEIGHT TRACKED DOZERS WITH A MAXIMUM GROUND PRESSURE OF 1100 PSF ARE PERMITTED OVER THE STRUCTURE.
4. DOZERS MUST SPREAD STONE WORKING IN A DIRECTION PARALLEL WITH THE CHAMBER ROWS; NOT WORKING ACROSS THE CHAMBER ROWS. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMCHAMBER STANDARD WARRANTY.
5. ONCE 18"(457mm) OF COMPACTED MATERIAL IS OVER THE CHAMBERS, HIGHWAY VEHICLES OF HS-20 AND HS-25 CAN BE OPERATED OVER THE STRUCTURES.
6. A FRONT END LOADER CAN BE OPERATED OVER THE STRUCTURES AS LONG AS THE MAXIMUM WHEEL LOAD DOES NOT EXCEED 16000 POUNDS. COMPACTING EQUIPMENT CAN BE OPERATED OVER THE STRUCTURES AS LONG AS THE DYNAMIC FORCE FROM THE DRUM DOES NOT EXCEED 20000 POUNDS AND THE GROSS VEHICLE WEIGHT DOES NOT EXCEED 12000 POUNDS.

BACKFILL, HANDLING AND INSTALLATION REQUIREMENTS

1. THIS DOCUMENT IS NOT A SUBSTITUTE FOR THE INSTALLATION GUIDE.
2. STORMCHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE NDS STORMCHAMBER INSTALLATION GUIDE.
3. STORMCHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. **CONTACT NDS SPECIALIST 571-521-9538 OR LOCAL REPRESENTATIVE.**
4. IN HOT WEATHER CONDITIONS, IF POSSIBLE, STORE ALL CHAMBERS AND BACKFILL STONE IN A SHADED AREA UNTIL THEY ARE READY TO BE INSTALLED. OUR RECOMMENDATION IS THAT THE SYSTEM BE LAID OUT AND ALL PIPES CONNECTED THE DAY PRIOR TO BACKFILLING WITH STONE. **WHEN TEMPERATURES ARE ABOVE 85°F, BACKFILLING SHOULD BE RESTRICTED TO COOLER MORNING PERIODS ONLY.**
5. 3/4" TO 2" CLEAN, CRUSHED, WASHED, ANGULAR STONE AASHTO M43 DESIGNATION OF #3 OR #4 OR CRUSHED CONCRETE OF THE SAME SIZE. SEE ACCEPTABLE FILL MATERIAL TABLE ON PAGE 3.
6. FOOTING OF CHAMBERS SHOULD BE CONNECTED WITH A DRYWALL SCREW WHEN OVERLAPPING AND INSTALLING.
7. MINIMUM SPACING BETWEEN THE CHAMBER ROWS SC18 & SC34 = 6 INCHES, SC44 = 9 INCHES.
8. INLET, OUTLET, AND INSPECTION PIPES MUST BE INSERTED A MINIMUM OF 12 INCHES (300 mm) INTO CHAMBER.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. PLACE THE BACKFILL MATERIAL IN 6-8 INCH LOOSE LIFTS AND COMPACT. USE MECHANICAL HAND TAMPERS OR APPROVED COMPACTING EQUIPMENT TO COMPACT ALL BACKFILL AND EMBANKMENT IMMEDIATELY ADJACENT TO EACH SIDE OF THE INSTALLATION AND OVER TOP OF THE INSTALLATION TO THE MINIMUM DEPTH SPECIFIED.
11. PLACE BACKFILL SO THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANYTIME DURING THE BACKFILLING PROCESS (12 INCHES) .
12. PERIMETER STONE MUST BE BROUGHT UP EVENLY WITH CHAMBER ROWS. PERIMETER MUST BE FULLY BACKFILLED WITH STONE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL.

BACKFILL METHODS



PROJECT NAME :
PROJECT LOCATION :

DRAWN BY: ARH



NDS STORMCHAMBER SYSTEM DETAILS

NDS SPECIALIST: 571-521-9538

ENTER SYSTEM PARAMETERS

Measurement Type:

Input Storage Volume: ft³

Select the Chamber Model:

Select Design Constraint:

Design Constraint Dimension: ft

Stone Above Chambers (min. 6 inches; max. 192 inches): in

Stone Below Chambers (min. 6 inches): in

Total Cover Over Chambers (min. 18 inches; max. 192 inches): in

Stone Void (Industry Standard is 40%): %

Desired Number of Layers:

Space Between each Layer (min. 12 Inches): in

Number of Rows Desired:

Maximum Number of Rows Based on Constraint Dimension:

Space Between Each Row (min. 6 Inches): in

Number of SedimentTraps Desired:

Minimum Suggested Number of SedimentTraps (per inflow row):

Do you need impervious liner to restrict infiltration?:

Number of Inflow Rows:

Perimeter stone border size 12 Inches

Trench depths beyond the range suggested may be achievable.
For assistance please contact us at: (888) 825-4716.

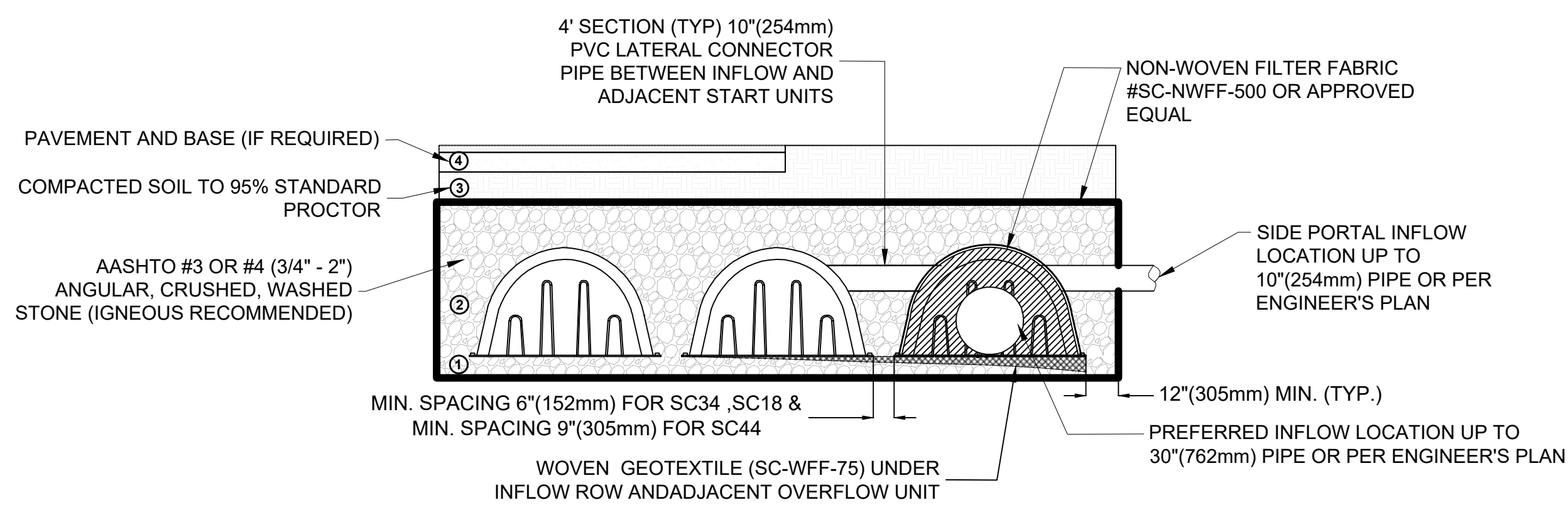
SYSTEM RESULTS

Total Chamber Storage Volume	436.08	Cubic Feet
Total Stone Storage Volume	485.37	Cubic Feet
Installed System Storage Volume	921.45	Cubic Feet
Minimum Internal Storage of a Chamber	21.36	Cubic Feet
Minimum Installed Storage with stone	40.70	Cubic Feet
Total Number of Chambers Required	20	Total #

Minimum Trench Length	40.81	ft
Minimum Trench Width	16.17	ft
System Depth	2.50	ft
Trench Depth	3.50	ft
Minimum Bed Size Required	660	Square Feet

OTHER SYSTEM COMPONENTS

Minimum Amount of Stone Required	52	Cubic Yards	3/4" - 2" crushed, washed, ANGULAR stone.
Volume of Excavation (not including fill)	61	Cubic Yards	
Non-woven Filter Fabric Required	284	Square Yards	
Stabilization Fabric	1	Pieces	
Impervious Liner	-	Square Yards	



ACCEPTABLE FILL MATERIALS: NDS STORMCHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATION	COMPACTION/DENSITY REQUIREMENT
4	FILL MATERIAL FOR LAYER '4' STARTS FROM THE TOP OF THE '3' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER.		PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
3	FILL MATERIAL FOR LAYER '3' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('2' LAYER) TO 18" [457mm] ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	AASHTO M145 A-1, A-2-4, A-3 OR AASHTO M43 #3: 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 12" [305mm] OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" [152 mm] LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY, ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs. [53kN]. DYNAMIC FORCE NOT TO EXCEED 20,000lbs [89kN].
2	EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNTAIN STONE ('1' LAYER) TO THE '3' LAYER ABOVE.	AASHTO M43 - #3, 4	90% T99.
1	FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF CHAMBER.	AASHTO M43 - #3, 4	PLATE COMPACTOR OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY. T99 AASHTO.

INSPECTION AND MAINTENANCE OF STORMCHAMBER SEDIMENTTRAP ROW

STORMCHAMBER™ WITH SEDIMENTTRAP™ ROW IS DESIGNED FOR EASE OF INSPECTION AND REDUCED LONG-TERM MAINTENANCE COST MONITORING T.S.S. BUILDUP IN A SEDIMENTTRAP™ CAN BE DONE WITHOUT THE NEED FOR A THIRD PARTY AS THE TRAP SITS DIRECTLY BELOW THE OBSERVATION PORT. A CAMERA WITH LIGHT AND/OR LONG MEASURING STICK CAN SUCCESSFULLY INSPECT AND DETERMINE WHEN MAINTENANCE IS NEEDED. AS NEEDED, SEDIMENT REMOVAL WITH A VACUUM TRUCK REQUIRES LITTLE OR NO WATER JETTING AS WITH OTHER COMPETING SYSTEMS.

INSPECTION AND MAINTENANCE SCHEDULE

THE QUANTITY AND LOCATION OF INSPECTION PORTS VARY BY SITE. PLEASE REFER TO THE SITE PLAN AND LAYOUT TO CONFIRM INSPECTION PORT LOCATIONS. NEW INSTALLATIONS SHOULD BE INSPECTED QUARTERLY AND AFTER EACH LARGE STORM EVENT TO SEE HOW IT PERFORMS. IT IS RECOMMENDED THAT A LOGBOOK BE MAINTAINED SHOWING THE DEPTH OF WATER IN THE STORMCHAMBER AT EACH OBSERVATION IN ORDER TO DETERMINE THE RATE AT WHICH THE STORMCHAMBER SYSTEM DEWATERS AFTER RUNOFF PRODUCING STORM EVENTS. ONCE THE PERFORMANCE CHARACTERISTICS OF THE STORMCHAMBER HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS, UNLESS THE PERFORMANCE DATA SUGGESTS THAT A MORE FREQUENT SCHEDULE IS REQUIRED. **SEDIMENT SHOULD BE SERVICED WHEN DEPOSITS APPROACH WITHIN 6 INCHES FROM THE TOP OF THE SEDIMENTTRAP OR CHAMBER BOTTOM.**

1: MAINTENANCE WITH SEDIMENTTRAP - VACUUM TRUCK METHOD

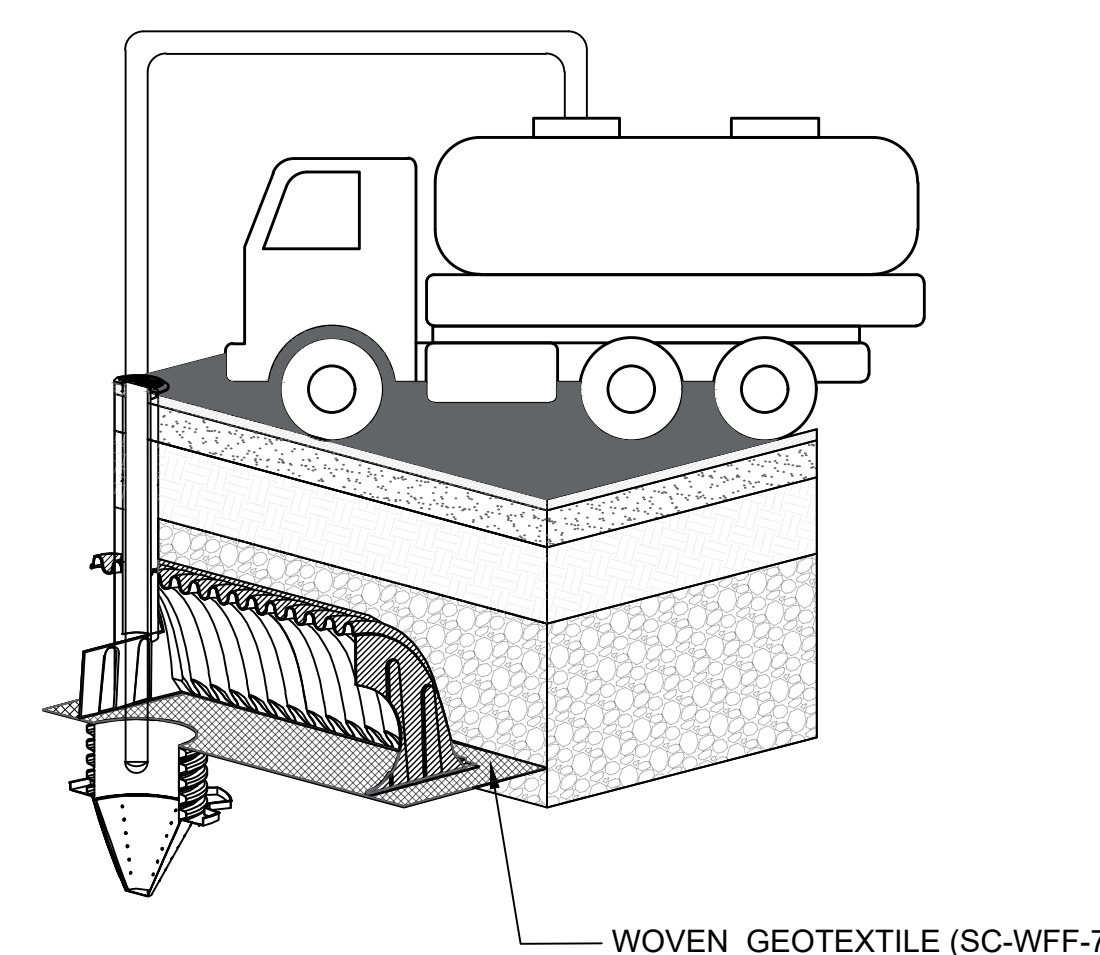
REMOVE LID FROM INSPECTION PORTS. MEASURE THE DEPTH OF SEDIMENT BUILD-UP IN THE SEDIMENTTRAPS. IF SEDIMENT BUILD-UP IN THE SEDIMENTTRAP IS WITHIN 6 INCHES FROM THE TOP OF THE SEDIMENTTRAP OR CHAMBER BOTTOM THEN PROCEED TO MAINTENANCE STEPS BELOW. IF SEDIMENT BUILD-UP IS LESS THAN 6 INCHES, LOG THE RESULTS AND PLACE THE LIDS BACK ON.

- INSERT VACUUM TUBE THROUGH 10 INCH CLEAN OUT RISER.
- VACUUM TUBE WILL NEED TO REACH THE BOTTOM DEPTH OF SEDIMENTTRAP (TYP. 7-10 FEET BELOW FINISHED GRADE).
- REMOVE SEDIMENT USING VACUUM TRUCK/EQUIPMENT UNTIL NO FURTHER SEDIMENT IS BEING REMOVED.
- INSPECT SEDIMENT BUILD-UP AGAIN TO ENSURE PROPER CLEANOUT.

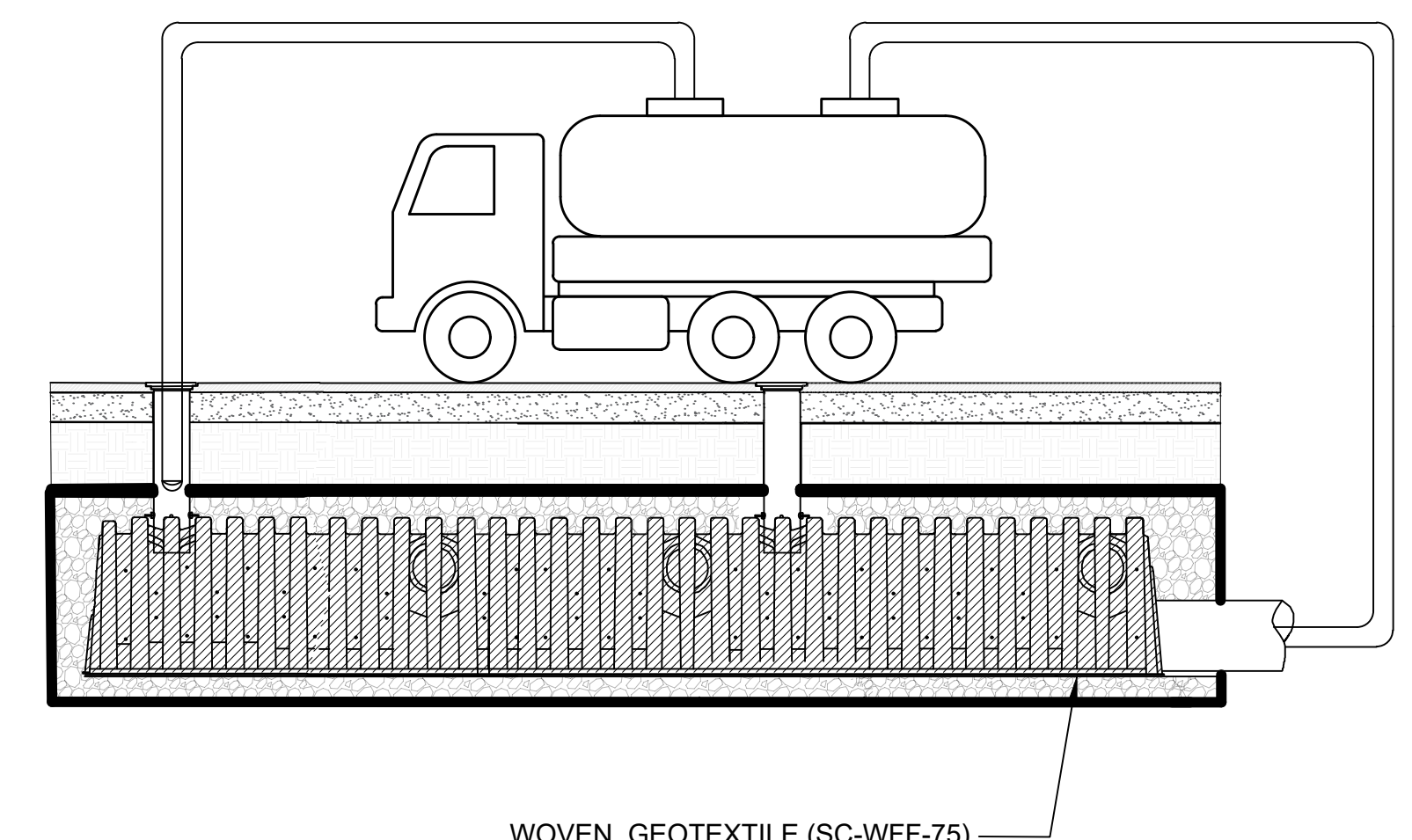
2: MAINTENANCE WITHOUT SEDIMENTTRAP - WATER JET METHOD

REMOVE LID FROM INSPECTION PORTS. MEASURE THE DEPTH OF SEDIMENT BUILD-UP ON THE UNDERLYING WOVEN FABRIC UNDER THE CHAMBERS. IF SEDIMENT BUILD-UP ON THE BOTTOM IS GREATER THAN 3 INCHES THEN PROCEED TO MAINTENANCE STEPS BELOW. IF SEDIMENT BUILD-UP IS LESS THAN 3 INCHES, LOG THE RESULTS AND PLACE THE LIDS BACK ON.

- REMOVE SEDIMENT FROM SEDIMENT ROW USING A HIGH PRESSURE WATER JET SYSTEM.
- PREFERRED EQUIPMENT REQUIRED SHOULD HAVE A FIXED FLOOR CLEANING NOZZLE (REAR FACING) WITH A SPREAD OF AROUND 45 INCHES.
- APPLY AS MANY PASSES IN THE ROW UNTIL THE BACKFLUSH WATER IS CLEAN.
- VACUUM AREAS UNDER INSPECTION PORTS AND OUT OF ANY MANHOLES.



MAINTENANCE WITH SEDIMENTTRAPS USING VACUUM TRUCK



MAINTENANCE WITHOUT SEDIMENTTRAPS USING WATER JET

PROJECT NAME :
PROJECT LOCATION :

DRAWN BY: ARH



NDS STORMCHAMBER SYSTEM DETAILS

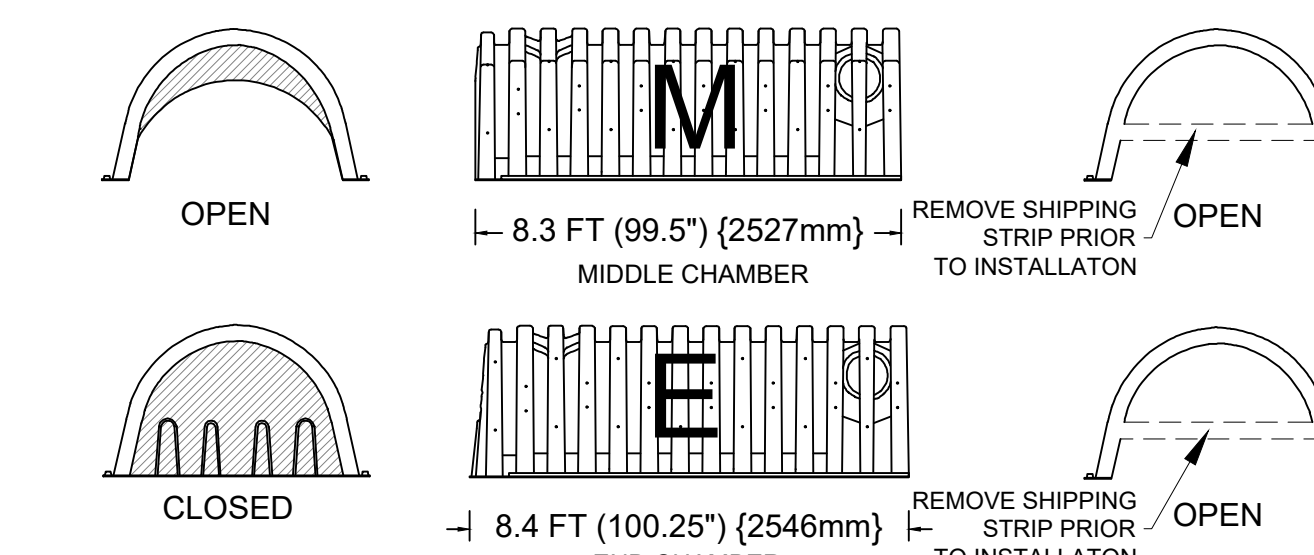
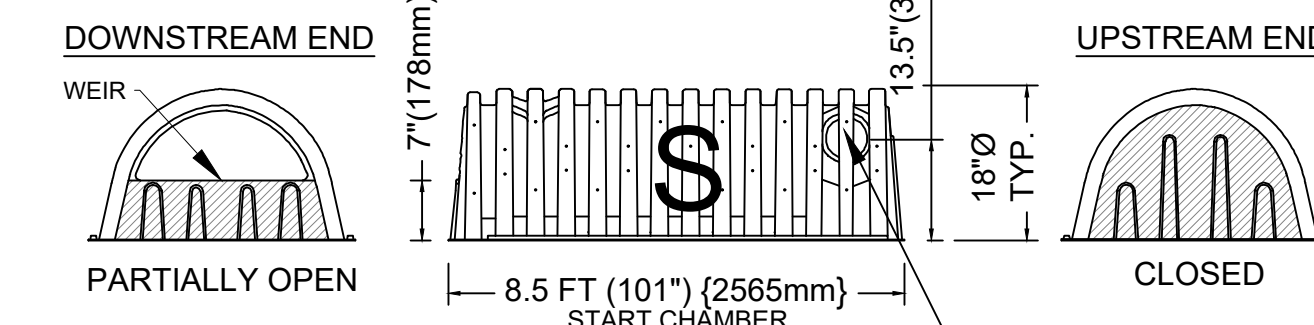
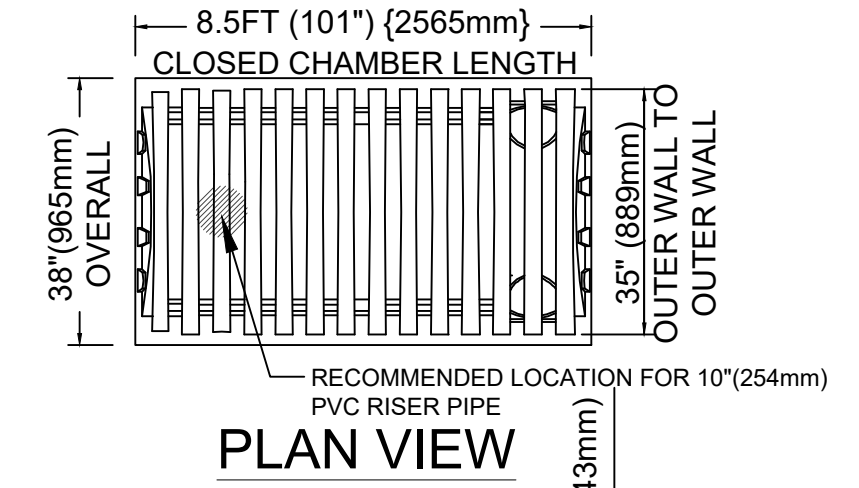
NDS SPECIALIST: 571-521-9538

CHAMBER PART	WIDTH (IN)(MM)	HEIGHT (IN)(MM)	WEIGHT (LBS)	ACTUAL LENGTH (IN)(MM)	INSTALLED LENGTH (IN)(MM)	CHAMBER VOLUME (CF)(CM)	INSTALLED STORAGE VOLUME (CF)(CM)
START	38"(965)	18"(457)	53	101"(2565)	96"(2438)	22.5(0.63)	46.5(1.31)
MIDDLE	38"(965)	18"(457)	53	99.5"(2527)	91.25"(2318)	21.4(0.60)	40.7(1.15)
END	38"(965)	18"(457)	53	100.25"(2546)	96"(2438)	22.5(0.63)	46.5(1.31)
CLOSED	38"(965)	18"(457)	53	101"(2565)	101"(2565)	23.6(0.66)	68.0(1.92)

6"(152mm) ABOVE AND BELOW CHAMBER, 6"(152mm) CHAMBER SPACING, 12"(305mm) PERIMETER STONE AND 40% POROSITY

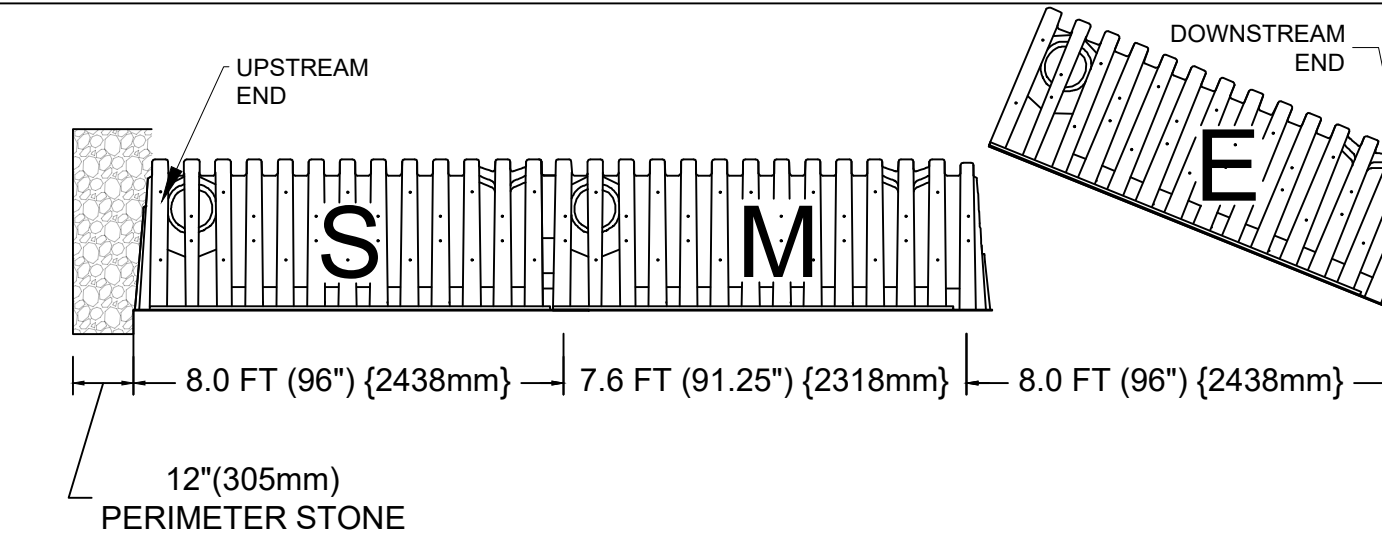
SC-1820 DIMENSIONS

(DIMENSIONS MAY VARY SLIGHTLY)
WEIGHT: 53 LBS EA.



DELIVERY LENGTHS

ELEVATION VIEW

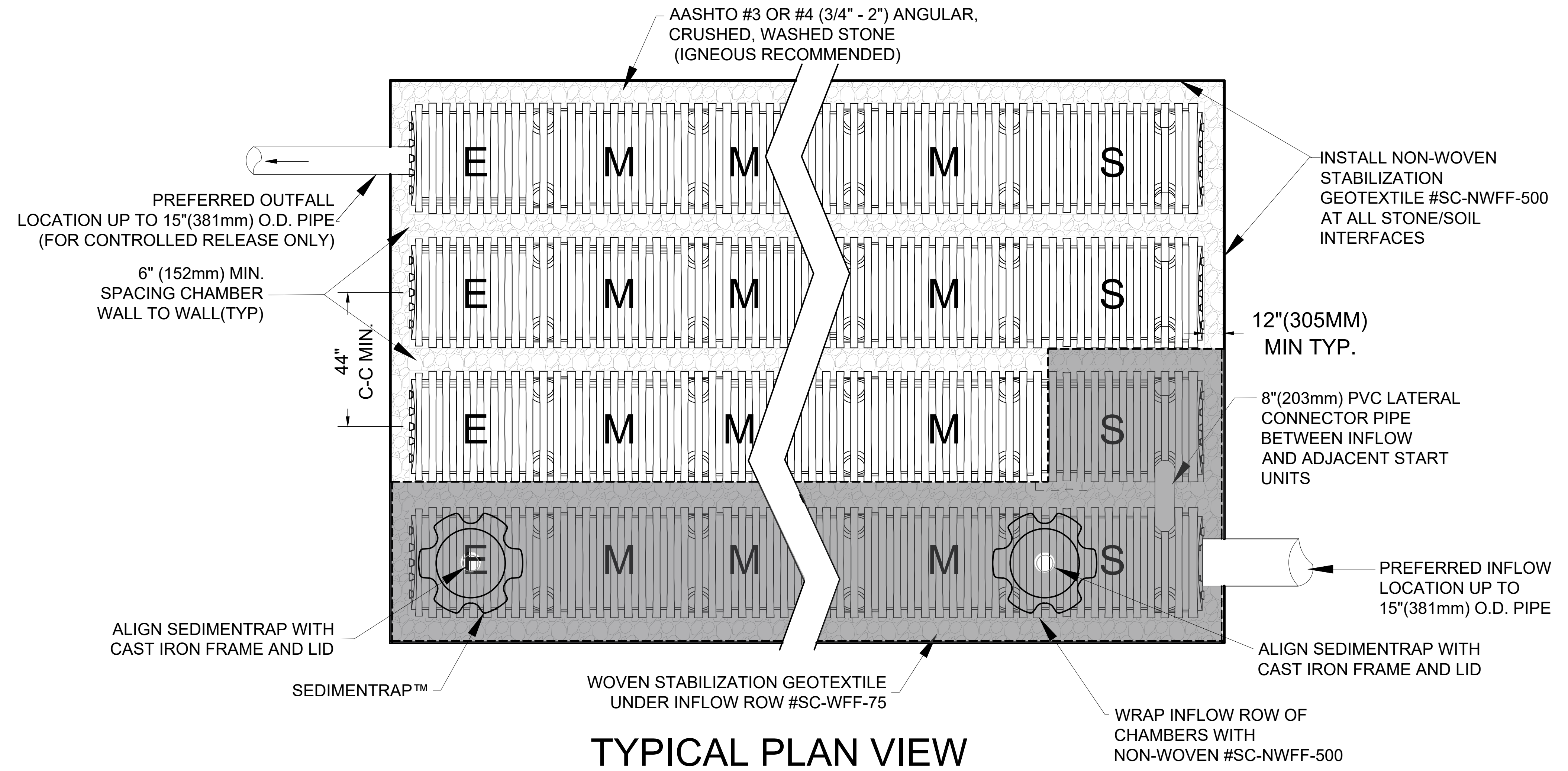


- NOTES:
- START CHAMBERS (CLOSED AT THE SIDE PORTAL END) ARE PLACED AT THE INFLOW END OF THE ROWS.
 - BEGIN PLACEMENTS WITH START CHAMBERS AND END ROWS WITH END CHAMBERS.
 - PLACE FIRST RIB OF THE NEXT CHAMBER IN THE ROW OVER THE LAST RIB OF THE PREVIOUS CHAMBER WITH SCREWS.

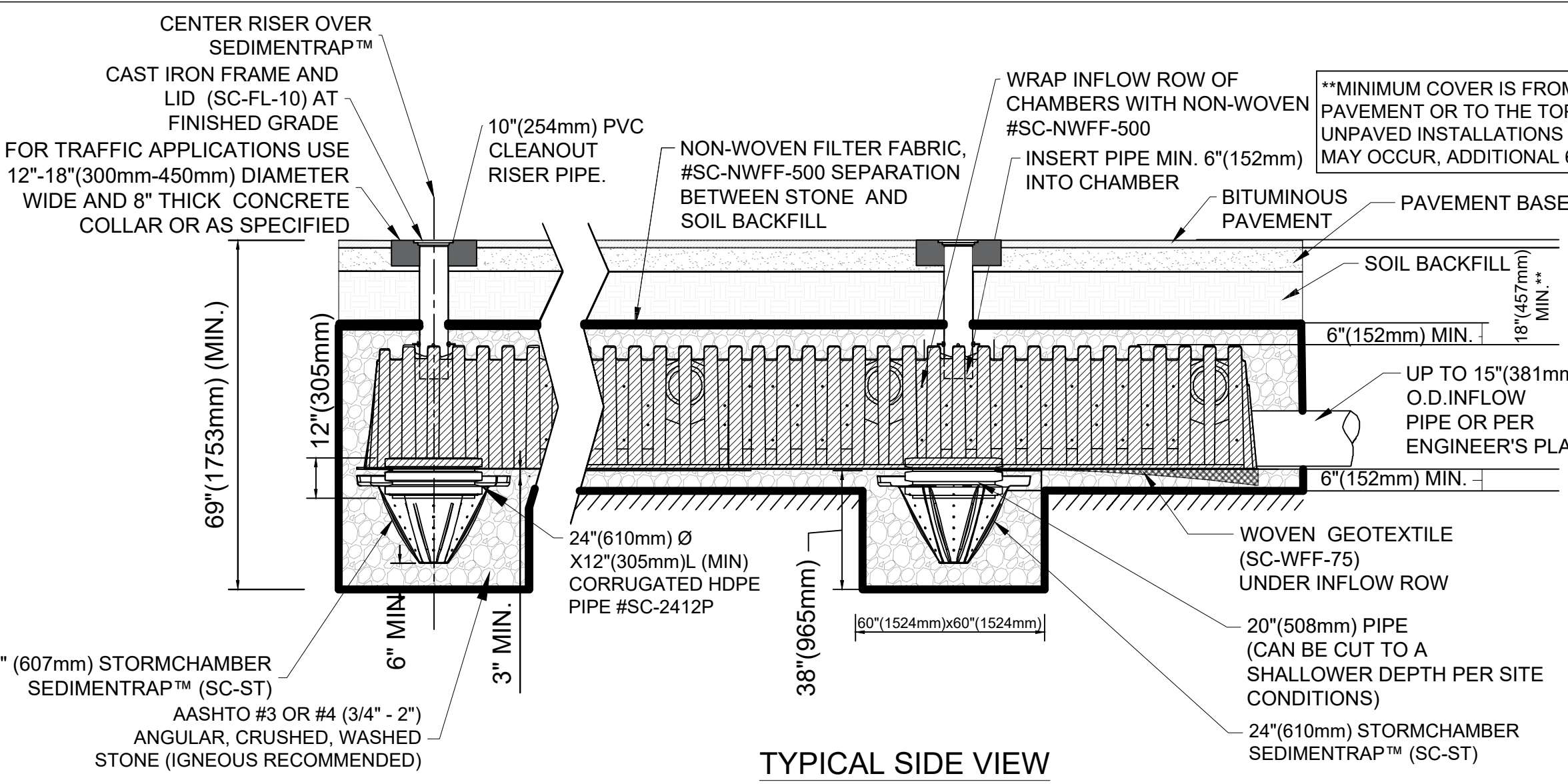
INSTALLED LENGTHS

ELEVATION VIEW

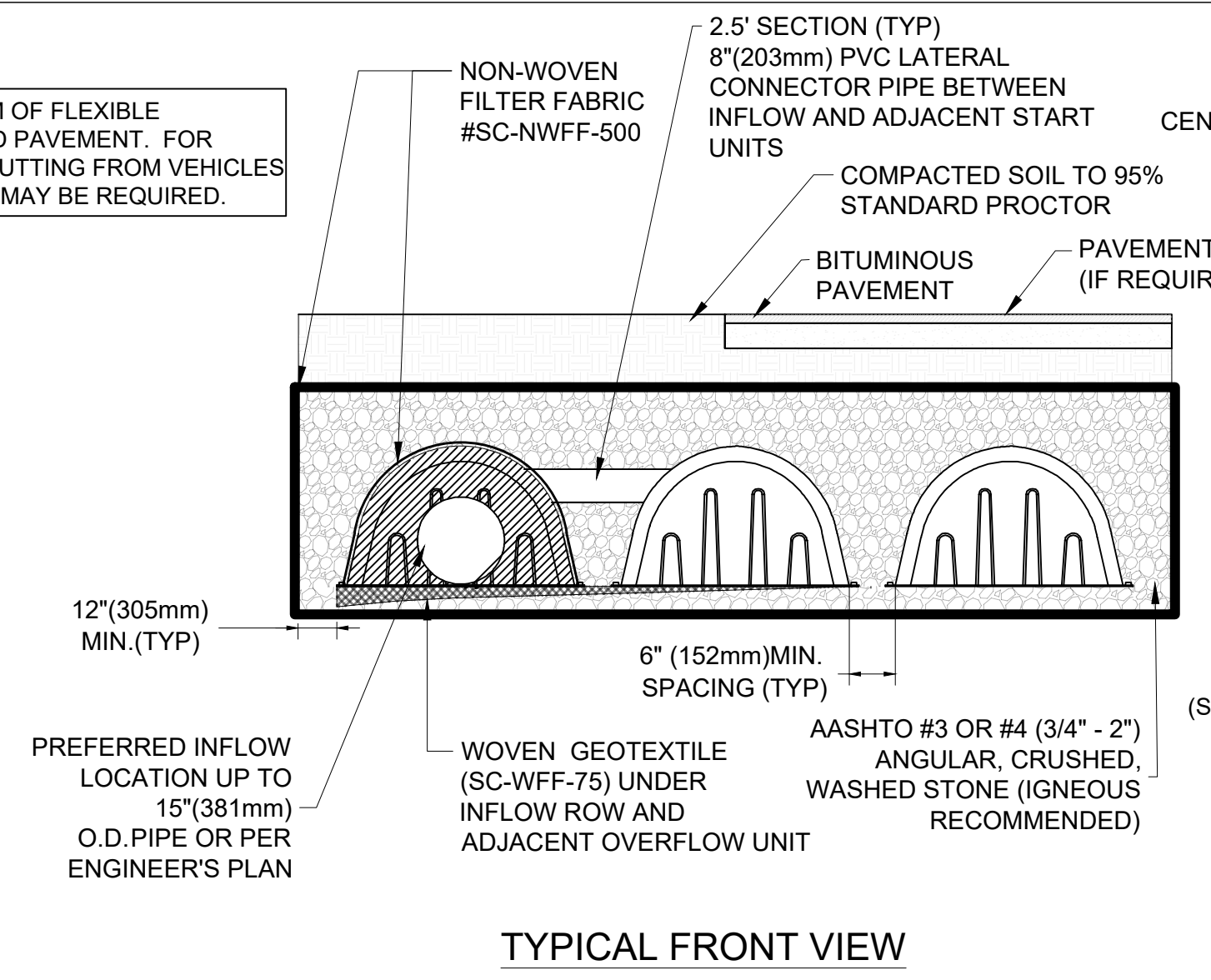
DESCRIPTION	STOCK CODE	QTY	UNITS
CHAMBERS AND ACCESSORIES:			
START CHAMBER	SC-1820-S-O		EACH
MIDDLE CHAMBER	SC-1820-M-O		EACH
END CHAMBER	SC-1820-E-O		EACH
CLOSED CHAMBER	SC-1820-C-O		EACH
SEDIMENTRAP™	SC-ST		EACH
NON-WOVEN GEOTEXTILE	SC-NWFF-500		ROLLS
WOVEN STABILIZATION GEOTEXTILE	SC-WFF-75		ROLLS
24"Ø X 12"H HDPE PIPE FOR SEDIMENTRAP™	SC-2412P		EACH
10" CAST IRON FRAME AND LID	SC-FL-10		EACH
MATERIALS BY OTHERS:			
8"(203mm) DIAMETER RISER / LATERAL PIPE	OTHERS		EACH
IN-PLACE EXCAVATION (NO BULKING FACTOR)	OTHERS		CU YD
STONE BACKFILL	OTHERS		CU YD
1/4" X 1-1/2" NUT AND BOLT	OTHERS		EACH
3" SCREWS	OTHERS		EACH
IMPERVIOUS LINER	OTHERS		CU YD



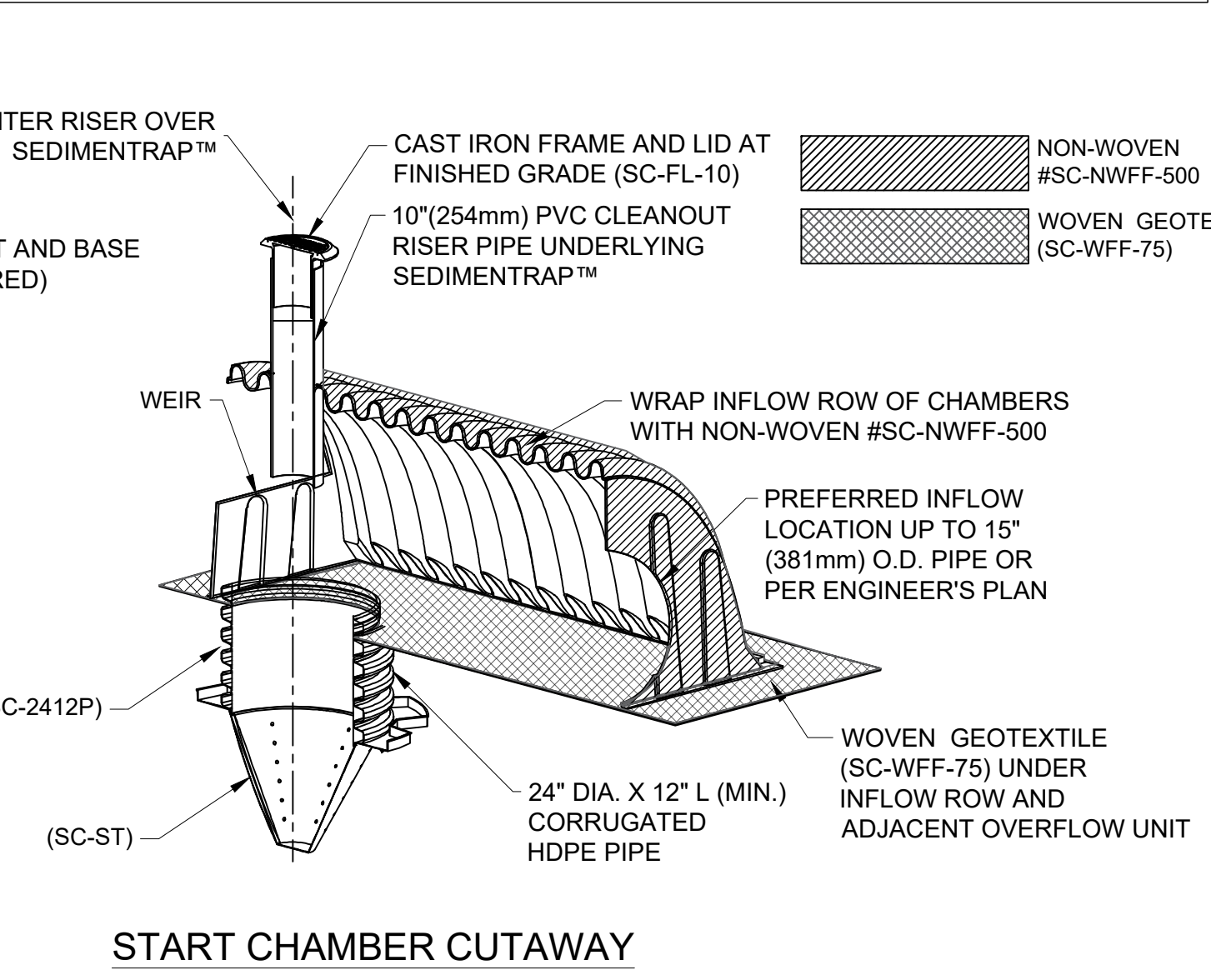
TYPICAL PLAN VIEW



TYPICAL SIDE VIEW



TYPICAL FRONT VIEW



START CHAMBER CUTAWAY

PROJECT # _____

DRAWN BY: ARH

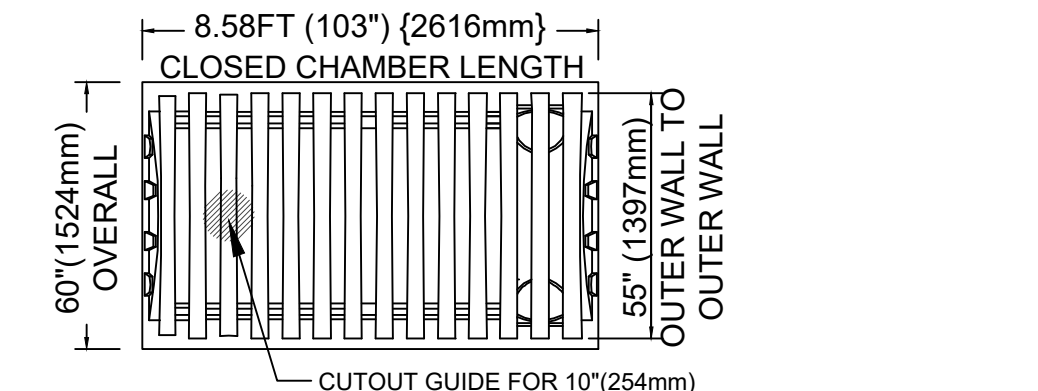


CHAMBER PART	WIDTH (IN)(MM)	HEIGHT (IN)(MM)	WEIGHT (LBS)	ACTUAL LENGTH (IN)(MM)	INSTALLED LENGTH (IN)(MM)	VOLUME (CF)(CM)	INSTALLED STORAGE VOLUME(CF)(CM)
START	60"(1524)	34"(864)	100	103"(2616)	97"(2464)	77.2(2.18)	122.9(3.48)
MIDDLE	60"(1524)	34"(864)	100	101"(2565)	91"(2311)	72.4(2.05)	107.4(3.04)
END	60"(1524)	34"(864)	100	103"(2616)	97"(2464)	77.2(2.18)	122.9(3.48)
CLOSED	60"(1524)	34"(864)	100	103"(2616)	103"(2616)	82.0(2.32)	162.8(4.60)

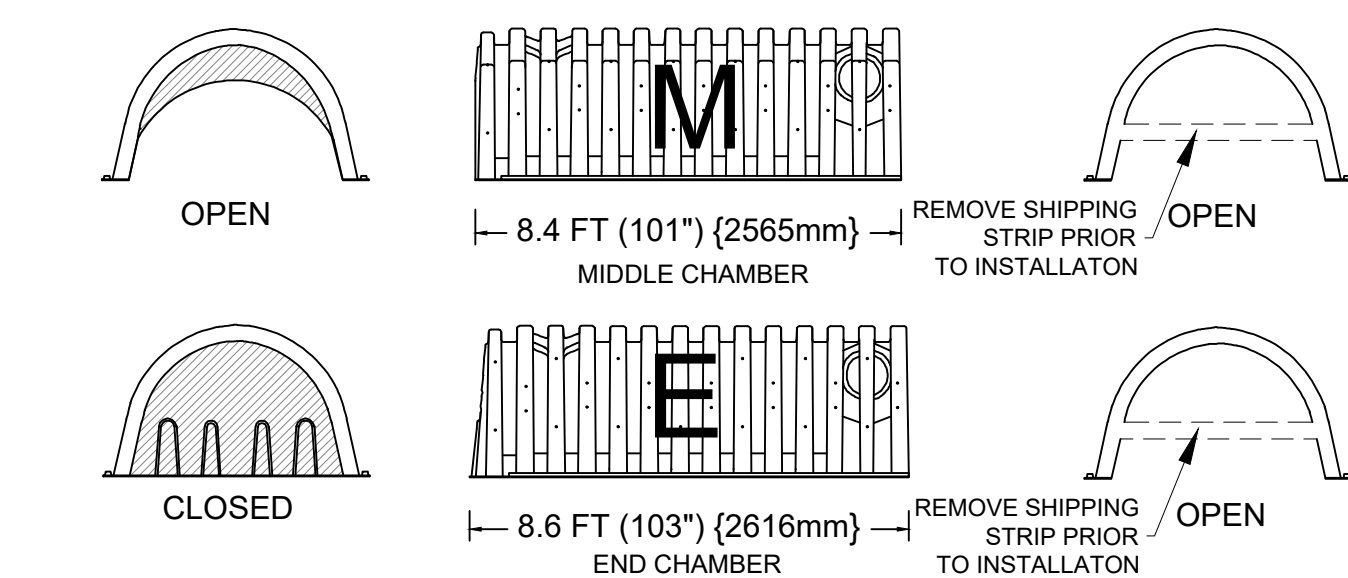
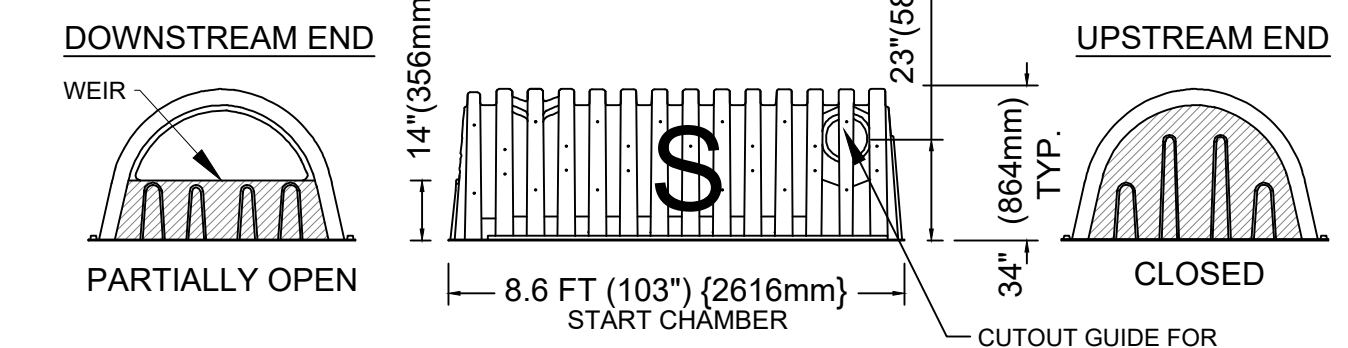
6"(152mm) ABOVE AND BELOW CHAMBER, 6"(152mm) CHAMBER SPACING, 12"(305mm) PERIMETER STONE AND 40% POROSITY

SC-3475 DIMENSIONS

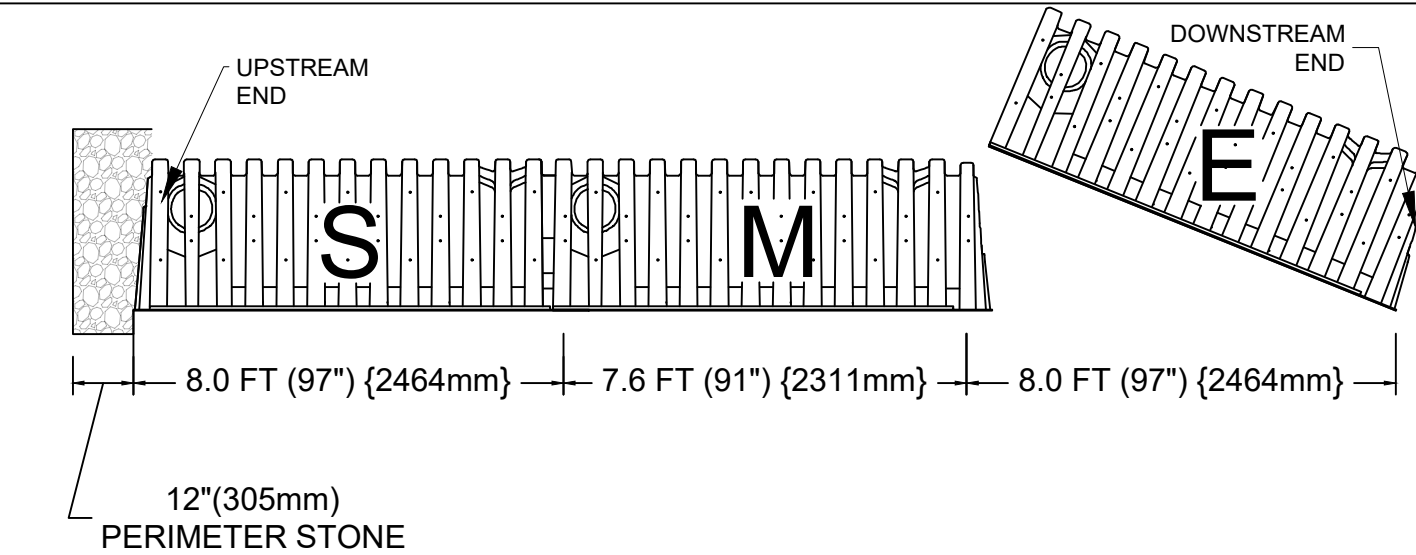
(DIMENSIONS MAY VARY SLIGHTLY)
WEIGHT: 100 LBS EA.



PLAN VIEW



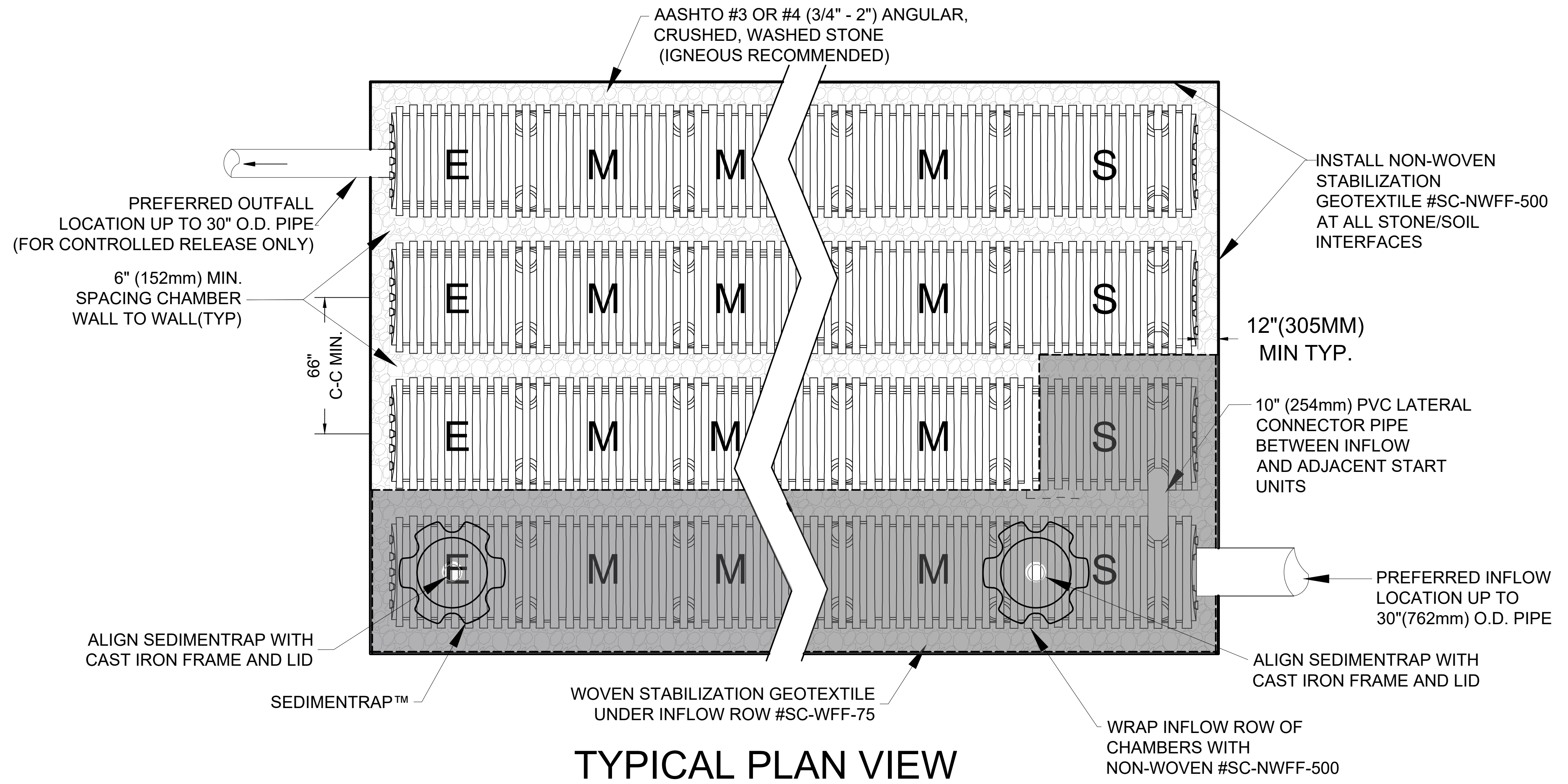
DELIVERY LENGTHS ELEVATION VIEW



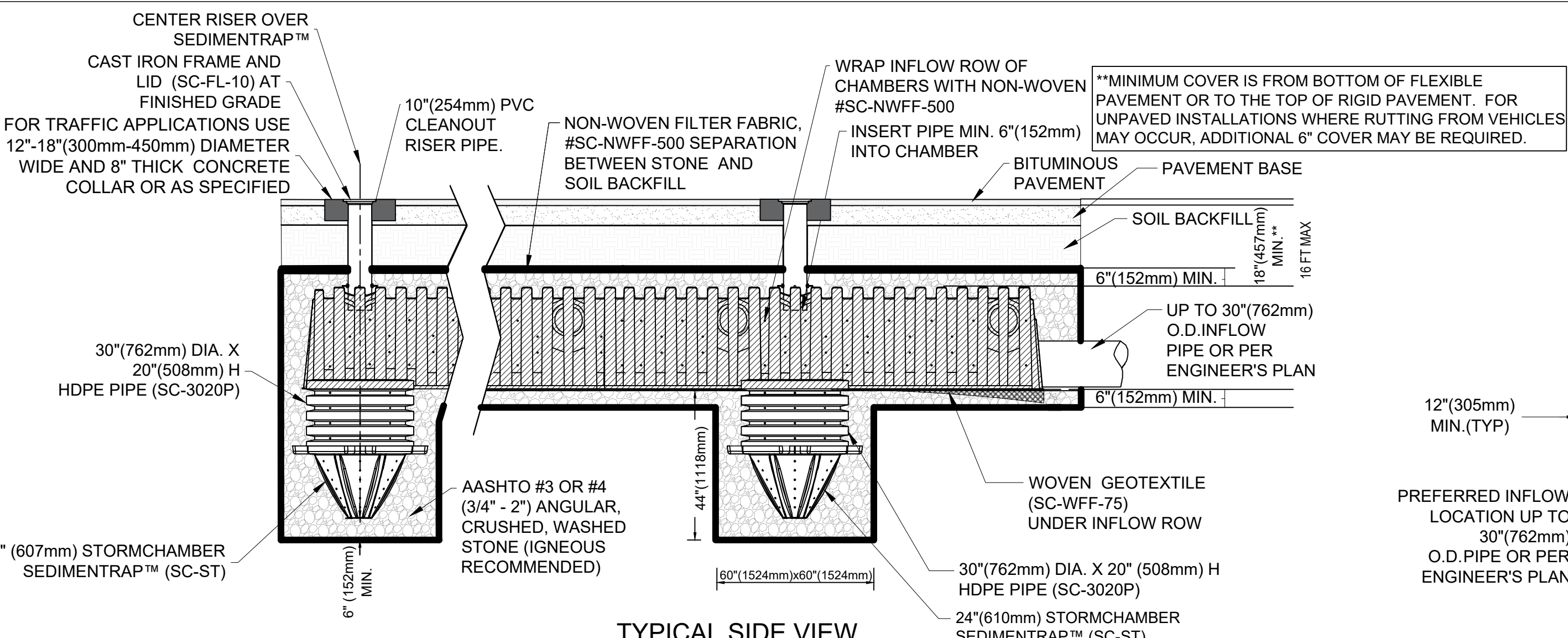
NOTES:

- START CHAMBERS (CLOSED AT THE SIDE PORTAL END) ARE PLACED AT THE INFLOW END OF THE ROWS.
- BEGIN PLACEMENTS WITH START CHAMBERS AND END ROWS WITH END CHAMBERS.
- PLACE FIRST RIB OF THE NEXT CHAMBER IN THE ROW OVER THE LAST RIB OF THE PREVIOUS CHAMBER WITH SCREWS.

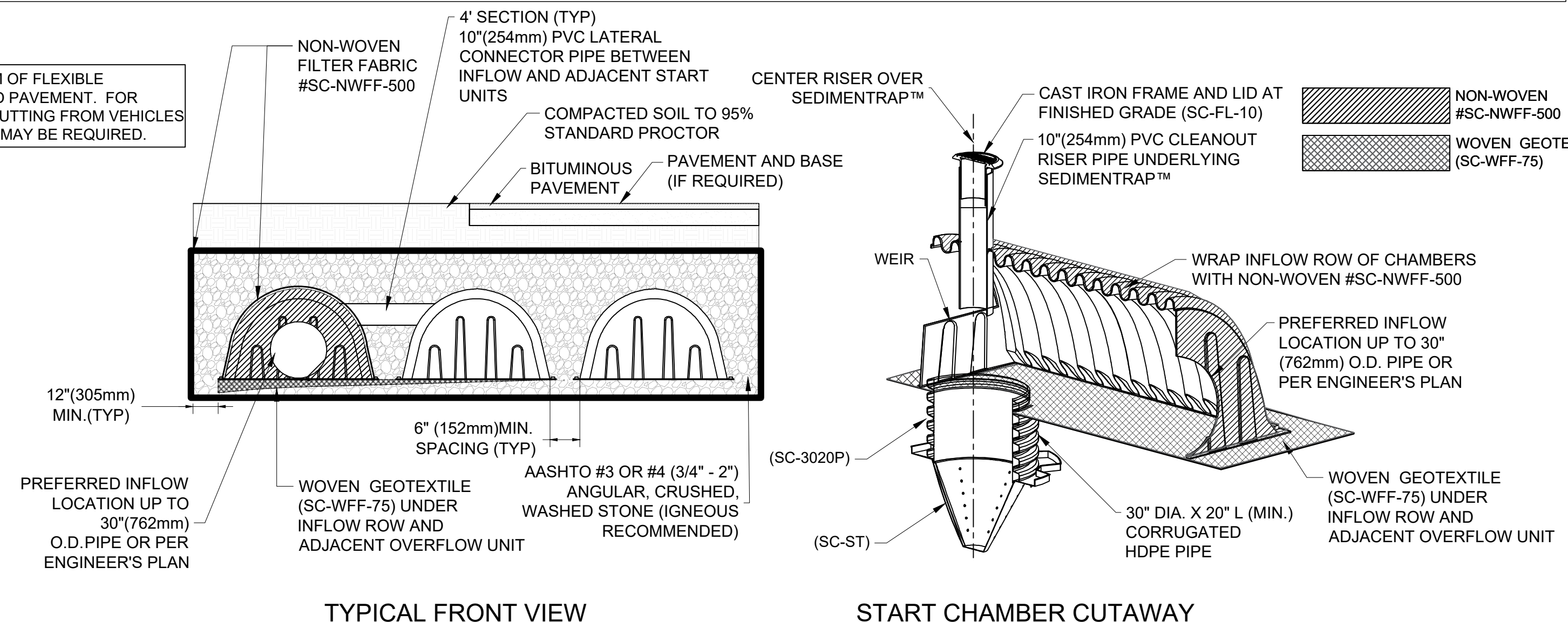
INSTALLED LENGTHS ELEVATION VIEW



TYPICAL PLAN VIEW



TYPICAL SIDE VIEW



TYPICAL FRONT VIEW

START CHAMBER CUTAWAY

MATERIAL LIST

DESCRIPTION	STOCK CODE	QTY	UNITS
CHAMBERS AND ACCESSORIES:			
START CHAMBER	SC-3475-S-O		EACH
MIDDLE CHAMBER	SC-3475-M-O		EACH
END CHAMBER	SC-3475-E-O		EACH
CLOSED CHAMBER	SC-3475-C-O		EACH
SEDIMENTRAP™	SC-ST		EACH
NON-WOVEN GEOTEXTILE	SC-NWFF-500		ROLLS
WOVEN STABILIZATION GEOTEXTILE	SC-WFF-75		ROLLS
30"Ø X 20"H HDPE PIPE FOR SEDIMENTRAP™	SC-3020P		EACH
10" CAST IRON FRAME AND LID	SC-FL-10		EACH
MATERIALS BY OTHERS:			
10"(254mm) DIAMETER RISER / LATERAL PIPE	OTHERS		EACH
IN-PLACE EXCAVATION (NO BULKING FACTOR)	OTHERS		CU YD
STONE BACKFILL	OTHERS		CU YD
1/4" X 1-1/2" NUT AND BOLT	OTHERS		EACH
3" SCREWS	OTHERS		EACH
IMPERVIOUS LINER	OTHERS		CU YD

PROJECT # _____

DRAWN BY: ARH

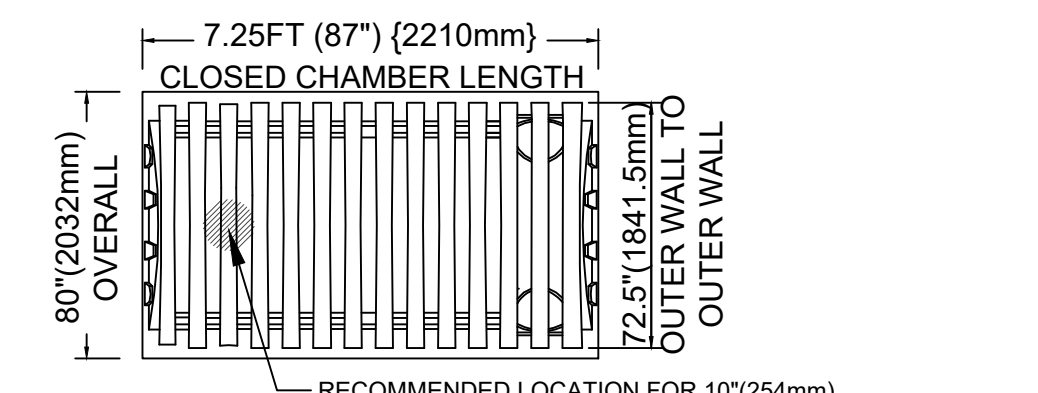


CHAMBER PART	WIDTH (IN)(MM)	HEIGHT (IN)(MM)	WEIGHT (LBS)	ACTUAL LENGTH (IN)(MM)	INSTALLED LENGTH (IN)(MM)	CHAMBER VOLUME (CF)(CM)	INSTALLED STORAGE VOLUME(CF)(CM)
START	80"(2032)	41"(1041.4)	120	87"(2210)	80"(2032)	93(2.6)	173(4.9)
MIDDLE	80"(2032)	41"(1041.4)	120	86.5"(2197)	74"(1880)	88(2.5)	147(4.2)
END	80"(2032)	41"(1041.4)	120	87"(2210)	80"(2032)	93(2.6)	173(4.9)
CLOSED	80"(2032)	41"(1041.4)	120	87"(2210)	87"(2210)	98(2.8)	224(6.3)

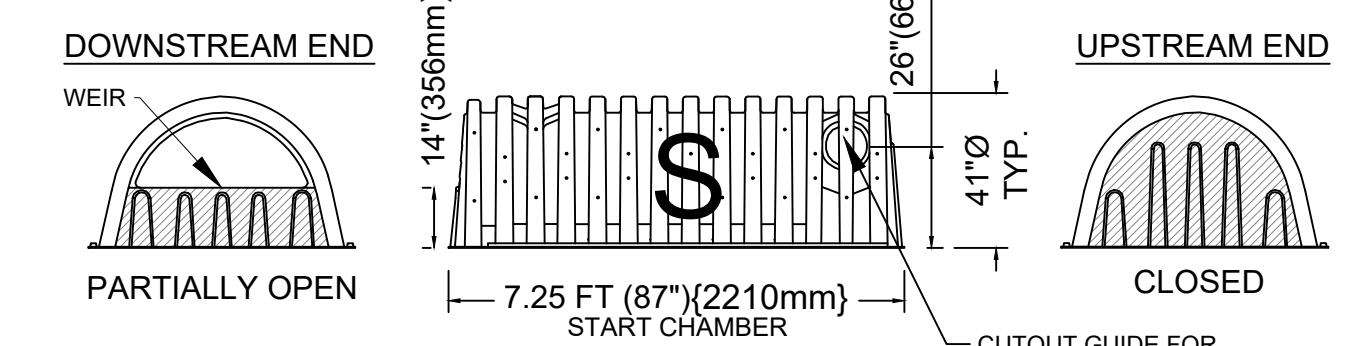
12"(305mm) ABOVE AND 9"(229mm) BELOW CHAMBER, 9"(229mm) CHAMBER SPACING, 12"(305mm) PERIMETER STONE AND 40% POROSITY
ALL DIMENSIONS ARE NOMINAL

SC-44105 DIMENSIONS

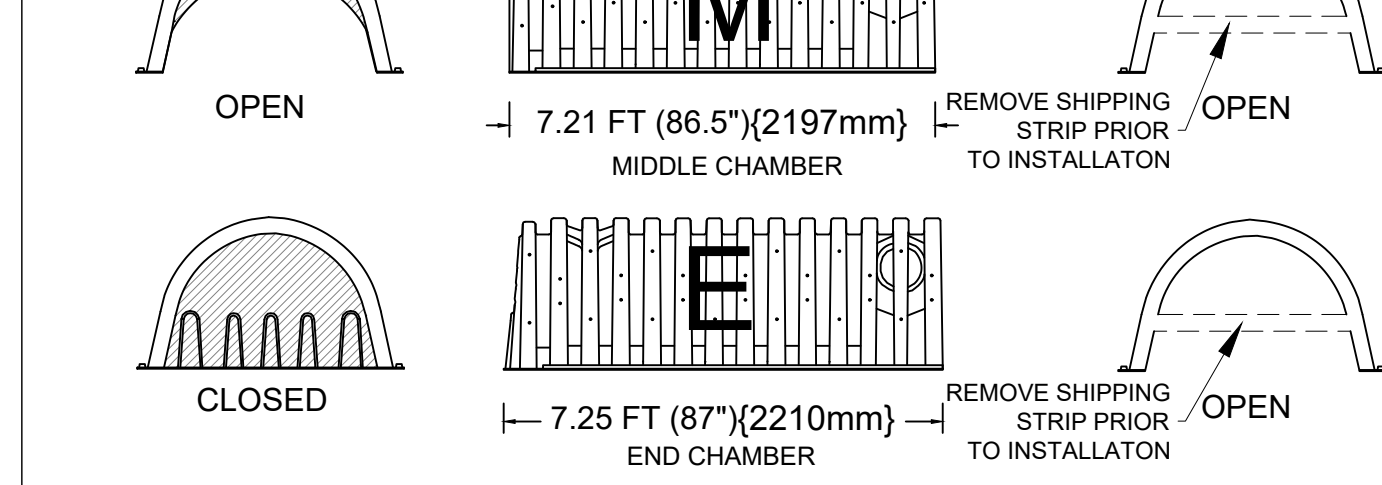
(DIMENSIONS MAY VARY SLIGHTLY)
WEIGHT: 120 LBS EA.



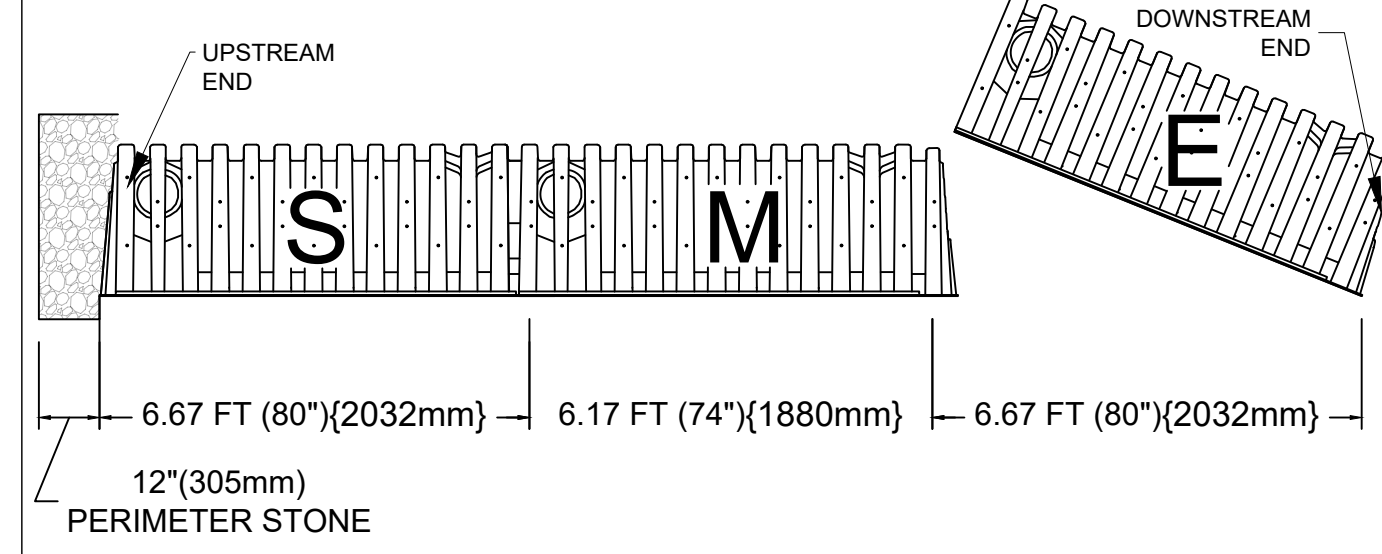
PLAN VIEW



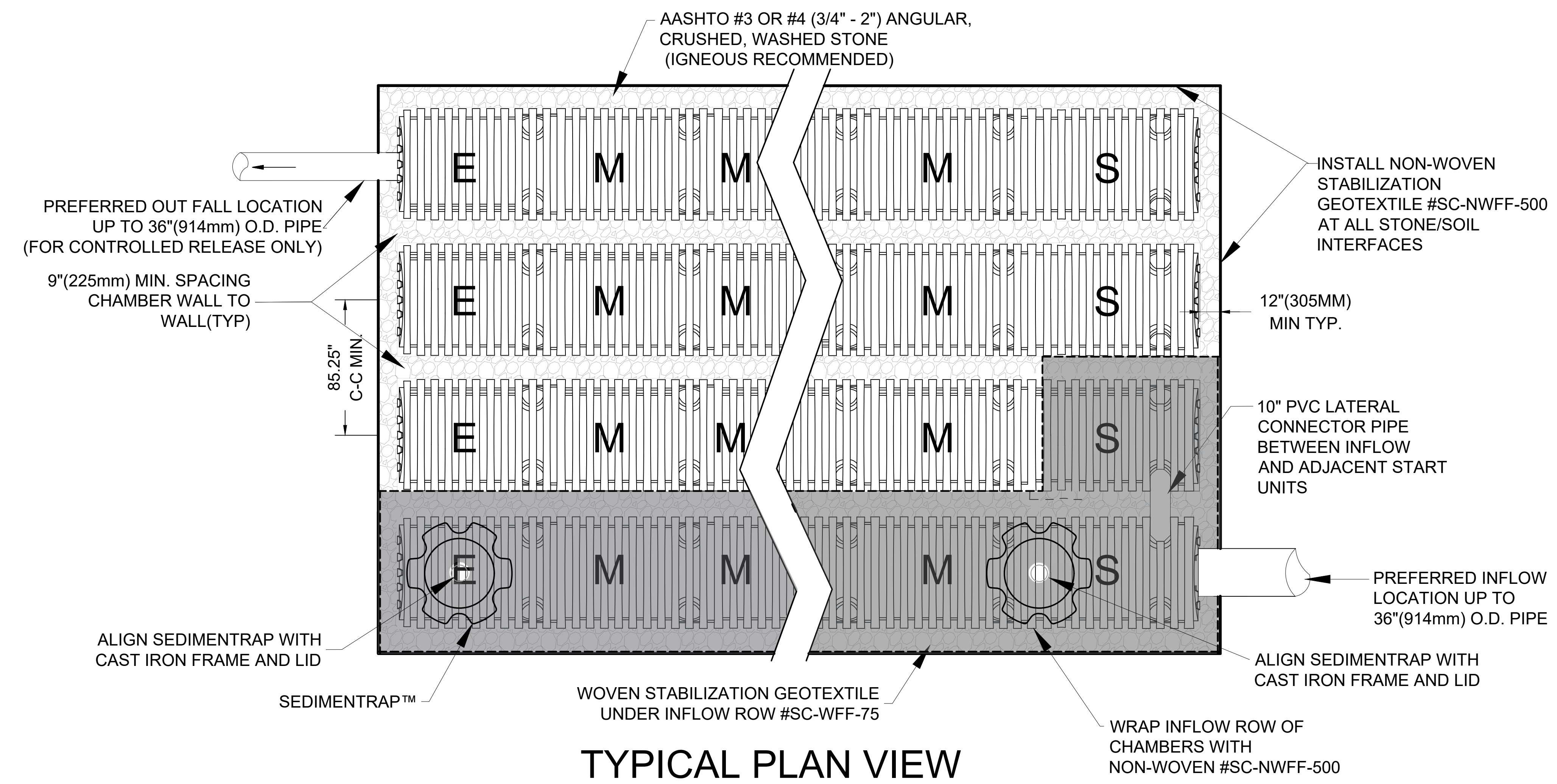
DELIVERY LENGTHS ELEVATION VIEW



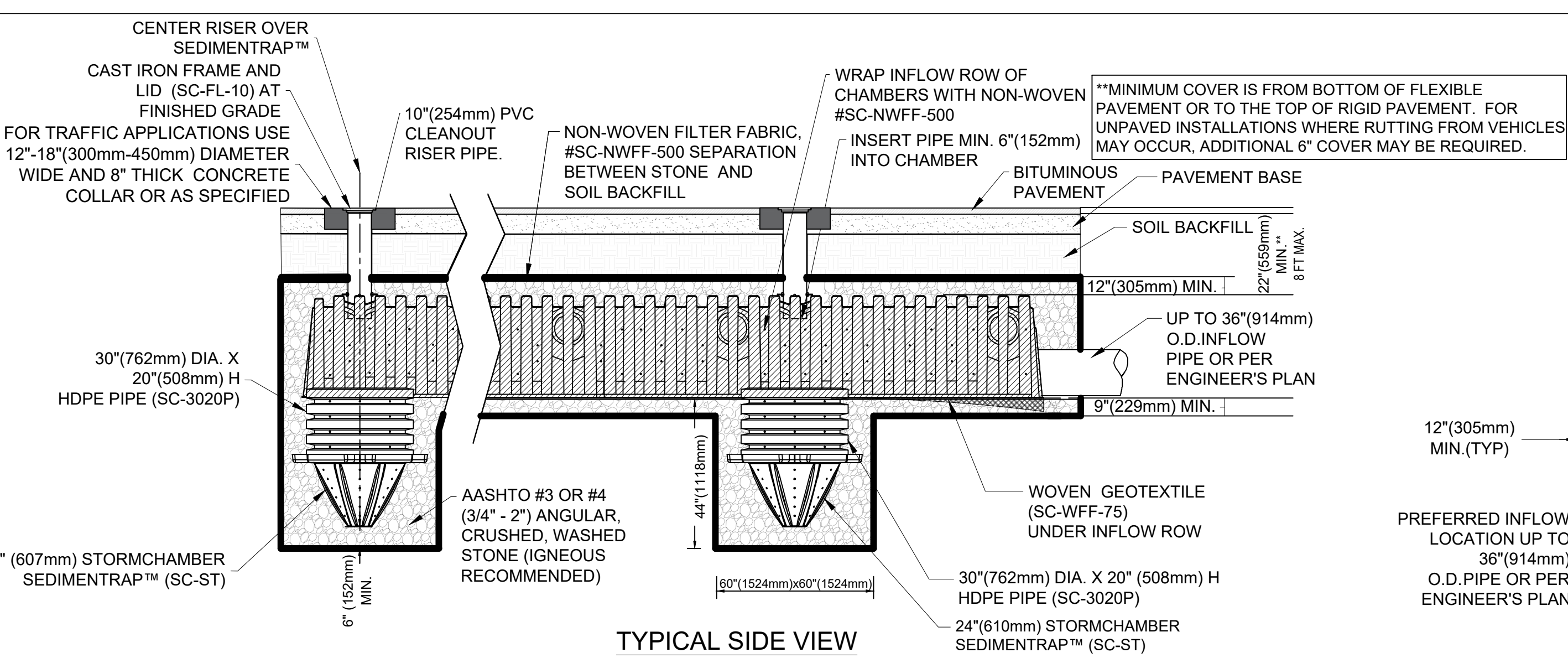
INSTALLED LENGTHS ELEVATION VIEW



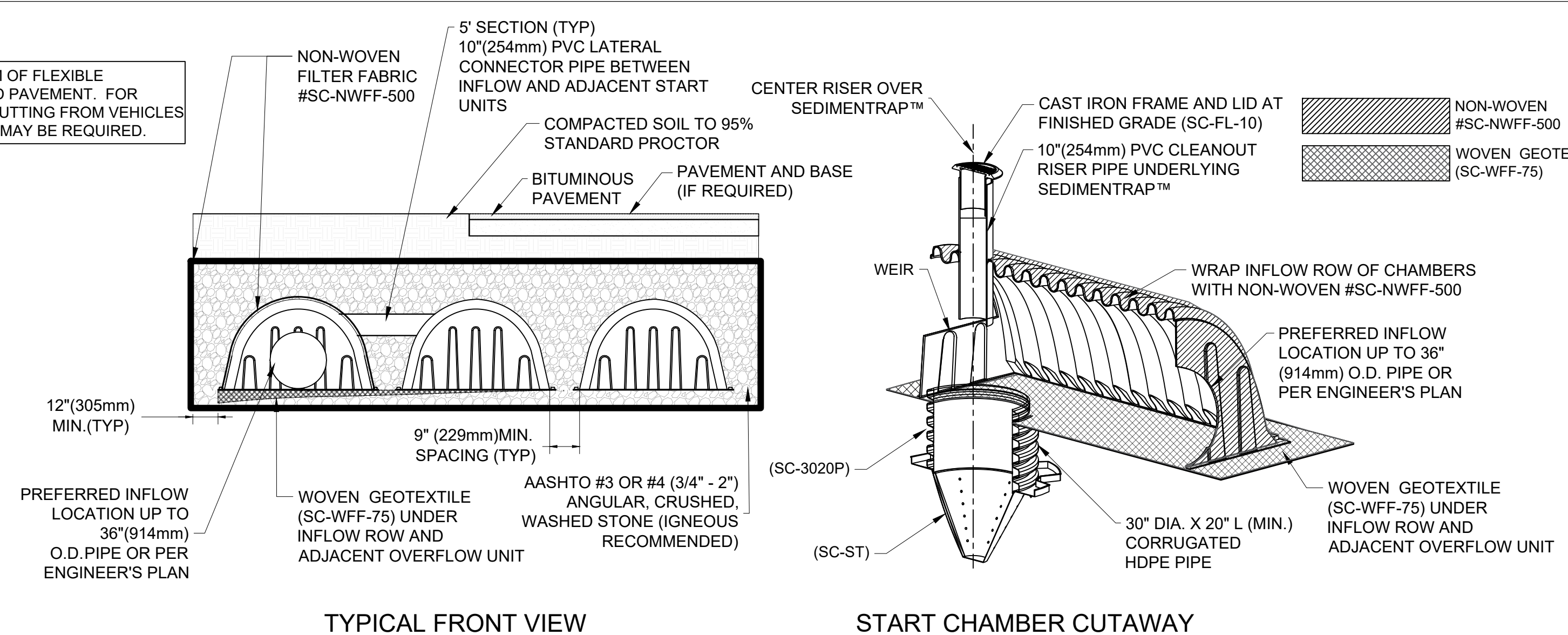
- NOTES:
- START CHAMBERS (CLOSED AT THE SIDE PORTAL END) ARE PLACED AT THE INFLOW END OF THE ROWS.
 - BEGIN PLACEMENTS WITH START CHAMBERS AND END ROWS WITH END CHAMBERS.
 - PLACE FIRST RIB OF THE NEXT CHAMBER IN THE ROW OVER THE LAST RIB OF THE PREVIOUS CHAMBER WITH SCREWS.



TYPICAL PLAN VIEW



TYPICAL SIDE VIEW



TYPICAL FRONT VIEW

START CHAMBER CUTAWAY

MATERIAL LIST

DESCRIPTION	STOCK CODE	QTY	UNITS
CHAMBERS AND ACCESSORIES:			
START CHAMBER	SC-44105-S-O		EACH
MIDDLE CHAMBER	SC-44105-M-O		EACH
END CHAMBER	SC-44105-E-O		EACH
CLOSED CHAMBER	SC-44105-C-O		EACH
SEDIMENTRAP™	SC-ST		EACH
NON-WOVEN GEOTEXTILE	SC-NWFF-500		ROLLS
WOVEN STABILIZATION GEOTEXTILE	SC-WFF-75		ROLLS
30"Ø X 20"H HDPE PIPE FOR SEDIMENTRAP™	SC-3020P		EACH
10" CAST IRON FRAME AND LID	SC-FL-10		EACH
MATERIALS BY OTHERS:			
10" (254mm) DIAMETER RISER / LATERAL PIPE	OTHERS		EACH
IN-PLACE EXCAVATION (NO BULKING FACTOR)	OTHERS		CU YD
STONE BACKFILL	OTHERS		CU YD
1/4" X 1-1/2" NUT AND BOLT	OTHERS		EACH
3" SCREWS	OTHERS		EACH

PROJECT # _____

DRAWN BY: ARH

