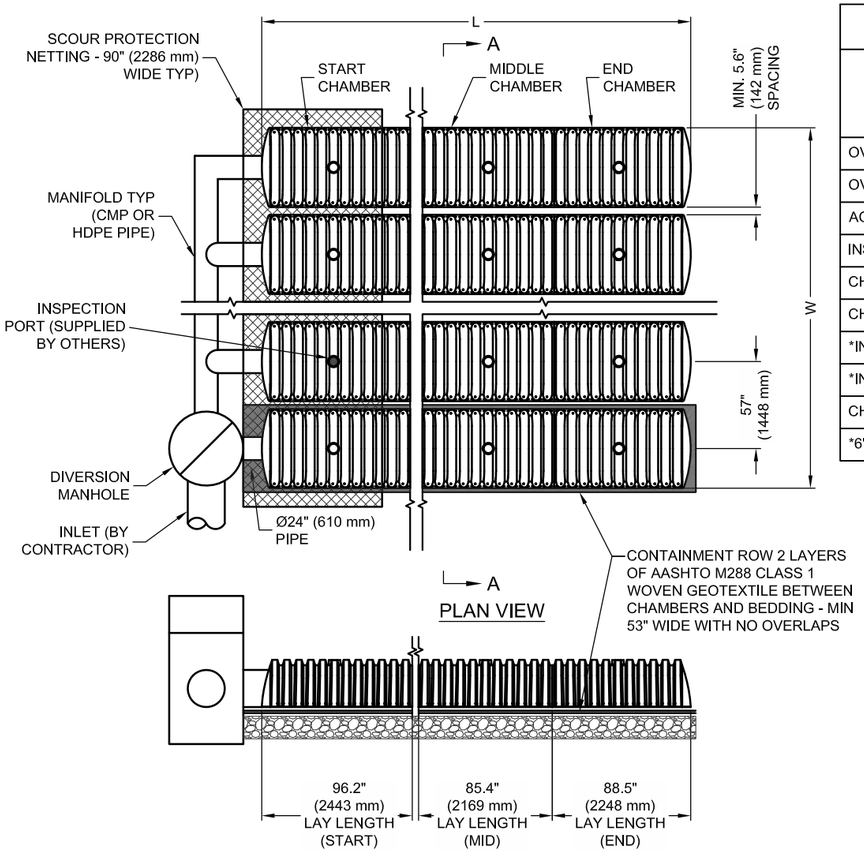
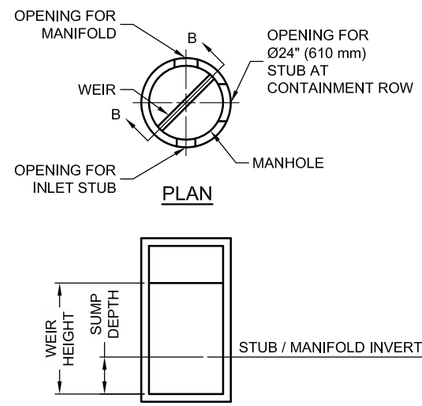



## TYPICAL LAYOUT

| CHAMBERMAXX DESIGN DETAILS | | | |
|---|---|---|---|
| **FEATURE** | **START CHAMBER** | **MIDDLE CHAMBER** | **END CHAMBER** |
| OVERALL CHAMBER HEIGHT - IN (mm) | 30.3 (770) | 30.3 (770) | 30.3 (770) |
| OVERALL CHAMBER WIDTH - IN (mm) | 51.4 (1306) | 51.4 (1306) | 51.4 (1306) |
| ACTUAL LENGTH - IN (mm) | 98.4 (2500) | 91.0 (2311) | 92.0 (2337) |
| INSTALLED LAY LENGTHS - IN (mm) | 96.2 (2443) | 85.4 (2169) | 88.5 (2248) |
| CHAMBER STORAGE VOLUME - CF (m³) | 50.2 (1.421) | 47.2 (1.336) | 46.2 (1.307) |
| CHAMBER STORAGE PER LINEAR FOOT - CF/LF (m³/m) | 6.3 (0.582) | 6.6 (0.616) | 6.3 (0.582) |
| *INSTALLED CHAMBER VOLUME - CF (m³) | 78.1 (2.211) | 75.1 (2.127) | 74.1 (2.098) |
| *INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF (m³/m) | 9.7 (0.905) | 10.6 (0.981) | 10.0 (0.934) |
| CHAMBER WEIGHT - LB (kg) | 83 (37.65) | 73 (33.11) | 76 (34.47) |
| *6" (152 mm) OF STONE ABOVE AND BELOW CHAMBER, 5.6" (142 mm) CHAMBER SPACING AND 40% POROSITY | | | |

| * SITE SPECIFIC DATA REQUIREMENTS | |
|---|---|
| FOR DETAILED DESIGN ASSISTANCE REFERENCE CHAMBERMAXX DYODS (DESIGN YOUR OWN DETENTION SYSTEM) SOFTWARE AND CHAMBERMAXX STAGE STORAGE CALCULATOR @ WWW.CONTECHSTORMWATER.COM | |
| TOTAL REQUIRED STORAGE VOLUME (CF OR m³) | |
| DEPTH TO INVERT BELOW ASPHALT (FT OR m) | |
| LIMITING WIDTH (FT OR m) | |
| LIMITING LENGTH (FT OR m) | |
| POROUS STONE ABOVE CHAMBER (IN OR mm) | |
| POROUS STONE BELOW CHAMBER (IN OR mm) | |
| STONE POROSITY (0 TO 40%) | |
| MANIFOLD SYSTEM DIAMETER (IN OR mm) | |
| * PER ENGINEER OF RECORD | |




## DIVERSION MANHOLE DETAIL

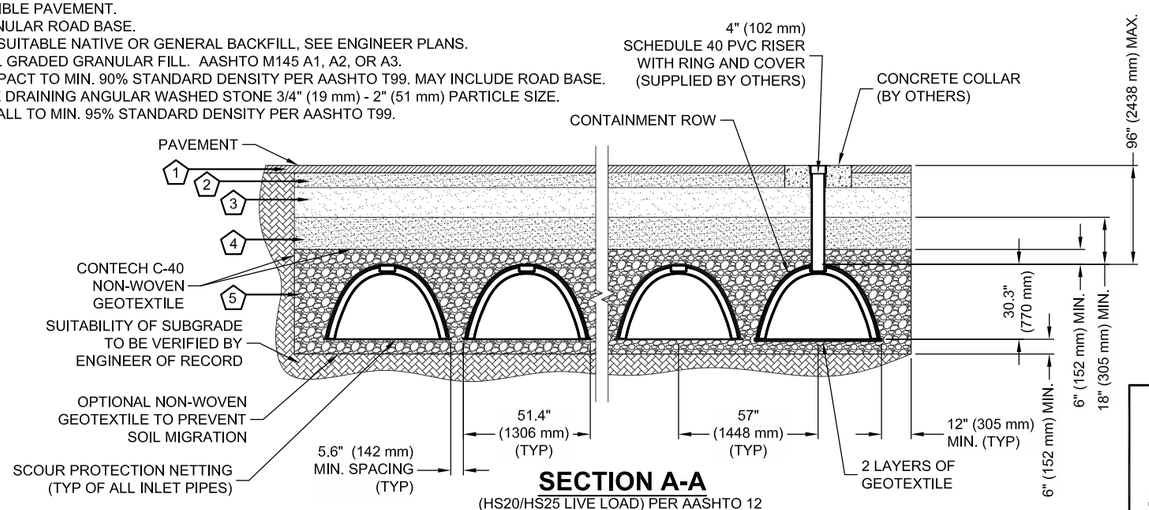
GENERAL NOTES

1. ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
2. PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
3. CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
4. CHAMBERMAXX SYSTEM TO MEET AASHTO HS20/HS25 LIVE LOADING, PER AASHTO LRFD SECTION 12.
5. ACCESS COVERS TO MEET AASHTO HS20/HS25 LIVE LOADING.
6. MINIMUM COVER IS 18-INCHES (457 mm) AND MAXIMUM COVER IS 96-INCHES (2438 mm) TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 96-INCHES (2438 mm) CONTACT YOUR LOCAL REPRESENTATIVE.
7. ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
8. FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
9. CHAMBERMAXX BY CONTECH ENGINEERED SOLUTIONS, LLC

INSTALLATION NOTES

1. CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
2. PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, A GEOGRID SHALL BE UTILIZED OR UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
3. THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" (305 mm) BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
4. COVER ANY OPEN VOID SPACES GREATER THAN ¾" (19 mm) ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
5. STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH (152 mm) TO 8-INCH (203 mm) LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
6. REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
7. IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
8. GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.

KEY ⬠
1. FLEXIBLE PAVEMENT.
2. GRANULAR ROAD BASE.
3. ANY SUITABLE NATIVE OR GENERAL BACKFILL, SEE ENGINEER PLANS.
4. WELL GRADED GRANULAR FILL. AASHTO M145 A1, A2, OR A3. COMPACT TO MIN. 90% STANDARD DENSITY PER AASHTO T99. MAY INCLUDE ROAD BASE.
5. FREE DRAINING ANGULAR WASHED STONE 3/4" (19 mm) - 2" (51 mm) PARTICLE SIZE. INSTALL TO MIN. 95% STANDARD DENSITY PER AASHTO T99.




## SECTION A-A
(HS20/HS25 LIVE LOAD) PER AASHTO 12

CHAMBERMaxx®
PATENT PENDING

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
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# CHAMBERMAXX STORMWATER RETENTION STANDARD DETAIL CONTAINMENT ROW OPTION