

CULTEC HVLV® FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FEED CONNECTOR (WHERE SPECIFIED)S ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND WHITE EXTERIOR.
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FEED CONNECTOR (WHERE SPECIFIED) SHALL BE 12" (305 mm) TALL, 16" (406 mm) WIDE AND 24.2" (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL:
1. BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
 2. BE BLACK IN APPEARANCE.
 3. HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
 4. HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632.
 5. HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632.
 6. HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786.
 7. HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833.
 8. HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241.
 9. HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533.
 10. HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751.
 11. HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491.
 12. HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SQ) PER ASTM D4491.
 13. HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355.

ADS PLUS-US WOVEN GEOTEXTILE

ADS PLUS-US WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW/ADS ISOLATOR ROW PLUS TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

THE GEOTEXTILE SHALL:

1. BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. BE BLACK AND WHITE IN APPEARANCE.
3. HAVE A MARV WEIGHT OF 8.0 OZ/YD² PER ASTM D5261.
4. HAVE A GRAB TENSILE STRENGTH OF 325 X 325 LBS (1,445 X 1,445 N) PER ASTM D4632.
5. HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632.
6. HAVE A CBR PUNCTURE RESISTANCE OF 1,124 LBS (5,000 N) PER ASTM D6241.
7. HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 125 X 125 LBS (556 X 556 N) PER ASTM D4533

NON-WOVEN GEOTEXTILE AROUND STONE, TOP AND SIDES MANDATORY, BOTTOM PER ENGINEER'S DESIGN PREFERENCE

CULTEC RECHARGER 150XLHD IN SEPARATOR ROW/ADS ISOLATOR® ROW PLUS CONFIGURATION (IF APPLICABLE)

14.0" (356 mm) MIN FOR UNPAVED (REDUCE TO 6.0" (152 mm) FOR NON-TRAFFIC APPLICATION)

8' (2.44 m) MAX COVER DEPTH

3/4" - 2" (20-50 mm) CLEAN, CRUSHED, ANGULAR STONE SURROUNDING CHAMBERS

12.0" (305 mm) MIN

39.0" (991 mm) MIN CENTER TO CENTER

33.0" (838 mm)

6.0" (152 mm) MIN

18.5" (470 mm)

6.0" (152 mm) MIN

12.0" (305 mm) MIN FOR RIGID PAVEMENT

12.0" (305 mm) MIN FOR FLEXIBLE PAVEMENT

GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES, COMPACT IN 6" (150 mm) MAX. LIFTS TO 95% PROCTOR DENSITY

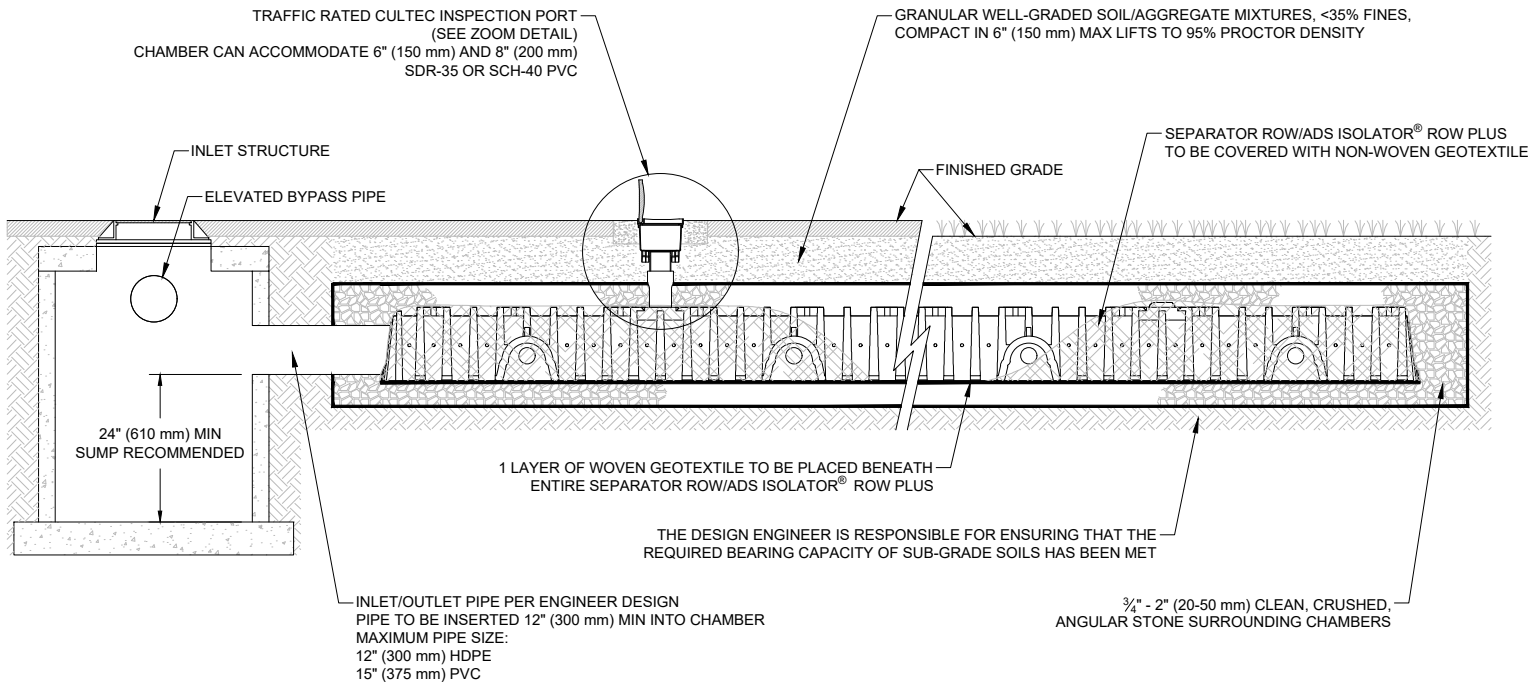
FINISHED GRADE

THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAVE BEEN MET

WOVEN GEOTEXTILE TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES (FOR SCOUR PROTECTION)

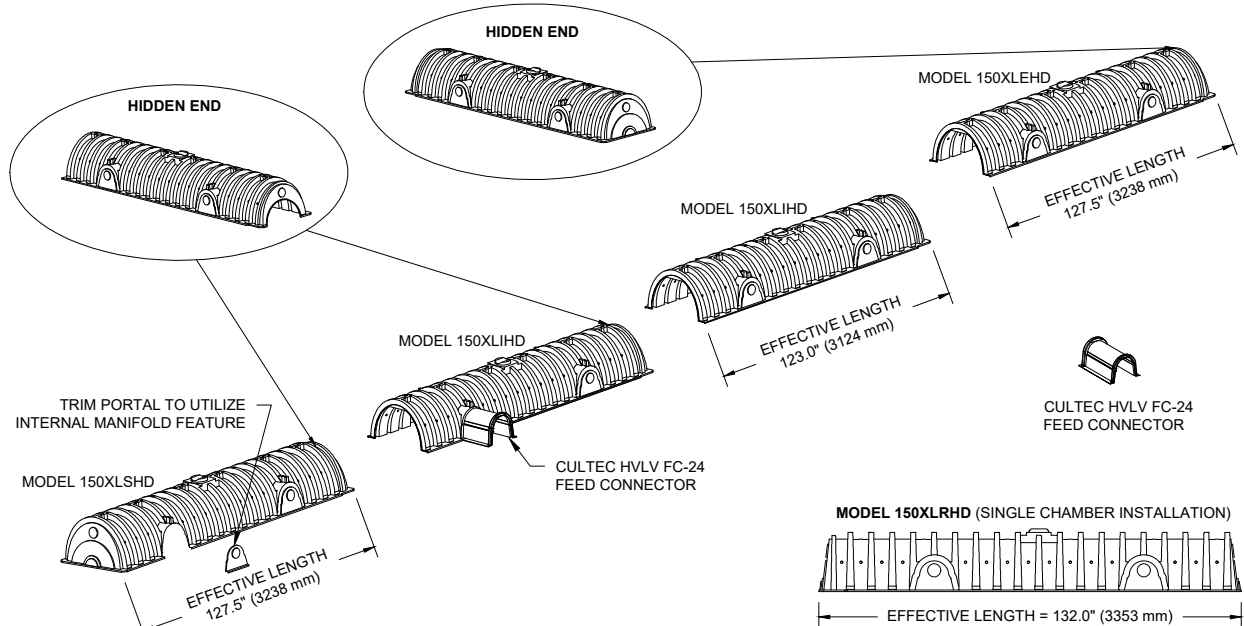
CULTEC HVLV FC-24 FEED CONNECTOR (WHERE SPECIFIED)

CULTEC RECHARGER 150XLHD HEAVY DUTY CROSS SECTION



CULTEC SEPARATOR ROW - CULTEC INSPECTION PORT DETAIL (IF APPLICABLE)

CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK

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THESE DRAWINGS WERE PREPARED TO SUPPORT THE SITE DESIGN ENGINEER'S PROPOSED STORMWATER MANAGEMENT SYSTEM DESIGN. IT IS THE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE CULTEC STORMWATER MANAGEMENT SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE SITE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT