CULTEC HVLV® SFCx2 FEED CONNECTOR MODEL 100RHD STARTER 6.0" [150 mm] DIA. **CULTEC CONTACTOR® 100HD CHAMBER PRODUCT SPECIFICATIONS** INSPECTION PORT KNOCK-OUT SMALL RIB LARGE RIB CULTEC HVLV SFCx2 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC CONTACTOR 100HD STORMWATER CHAMBERS **END DETAIL** CULTEC CONTACTOR 100HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF. 2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR. 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. 36.0" [914mm] (203-775-4416 OR 1-800-428-5832) 3. THE CHAMBER SHALL BE ARCHED IN SHAPE. MODEL 100EHD MIDDLE/END 4. THE CHAMBER SHALL BE OPEN-BOTTOMED. 2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH SMALL RIB LARGE RIB DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR 5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV SFCX2 FEED CONNECTOR SHALL BE 7.6 INCHES (194 mm) TALL, 12 INCHES (305 mm) WIDE AND 19.7 INCHES (500 mm) LONG. 3. THE CHAMBER SHALL BE ARCHED IN SHAPE. 6. THE NOMINAL STORAGE VOLUME OF THE HVLV SFCX2 FEED CONNECTOR SHALL BE 0.294 FT3 / FT (0.027 m3 / m) - WITHOUT STONE. 4. THE CHAMBER SHALL BE OPEN-BOTTOMED. MODEL 100RHD IS A STARTER/STAND ALONE UNIT 7. THE HVLV SFCX2 FEED CONNECTOR CHAMBER SHALL HAVE 3 CORRUGATIONS. THEY ARE USED TO START ROWS OR CAN BE USED SINGULARLY 5. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. 8. THE HVLV SFCX2 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT INSTALLED LENGTH = 90.0" [2286mm] SHALL FIT INTO THE SIDE PORTALS OF THE CONTACTOR 100HD STORMWATER CHAMBER AND COUPLINGS OR SEPARATE END WALLS. ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR 100HD SHALL BE 12.5 9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED INCHES (318 mm) TALL, 36 INCHES (914 mm) WIDE AND 8 FEET (2.44 m) LONG. THE ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. OPTIONAL 4.5" [114 mm] DIA. KNOCK-OUT -LARGE RIB -INSTALLED LENGTH OF A JOINED CONTACTOR 100HD SHALL BE 7.5 FEET (2.29 m). 10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 10 INCHES (250 mm). **CULTEC NO. 410™ NON-WOVEN GEOTEXTILE** 12.5" [318mm] CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® SFCX2 FEED STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE. CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS 6.0" [152mm OF EACH SIDE PORTAL SHALL BE 5.75 INCHES (146 mm) HIGH BY 7.5 INCHES (191 mm) **GEOTEXTILE PARAMETERS** WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 6.9 INCHES (175 mm). 1-800-428-5832) 2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE. MODEL 100EHD IS A MIDDLE/END UNIT. 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV SFCX2 FEED CONNECTOR ∠ SIDE PORTAL FOR OPTIONAL INTERNAL MANIFOLD 3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M). THEY ARE USED TO CONTINUE ROWS AND ALSO USED TO END A ROW. SHALL BE 7.6 INCHES (194 mm) TALL, 12 INCHES (305 mm) WIDE AND 19.7 INCHES (500 mm) (ACCOMMODATES CULTEC HVLV SFCx2 FEED CONNECTOR OR STORM PIPE) CULTEC CONTACTOR 100HD CHAMBER STORAGE = 1.866 CF/FT [0.173 m³/m] 4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 INSTALLED LENGTH ADJUSTMENT = 0.5' [0.15 m] TESTING METHOD. 6" [150 mm] HDPE ALL CONTACTOR 100HD HEAVY DUTY UNITS ARE MARKED WITH A COLORED 10. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR 100HD CHAMBER SHALL BE 1.866 5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING 6" [150 mm] PVC STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. FT³ / FT (0.173 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED CONTACTOR 100HD SHALL BE 13.995 FT3 / UNIT (0.396 m3 / UNIT) - WITHOUT STONE. 6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD. 11. THE NOMINAL STORAGE VOLUME OF THE HVLV SFCX2 FEED CONNECTOR SHALL BE 0.294 7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 FT³ / FT (0.027 m³ / m) - WITHOUT STONE. TESTING METHOD **CULTEC CONTACTOR 100HD HEAVY DUTY THREE VIEW CULTEC CONTACTOR 100HD HEAVY DUTY END DETAIL INFORMATION** 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 12. THE CONTACTOR 100HD CHAMBER SHALL HAVE FORTY-FOUR DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF 9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING MFTHOD. 10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING 13. THE CONTACTOR 100HD CHAMBER SHALL HAVE 16 CORRUGATIONS. 11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING **HIDDEN END** 14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS 12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER CULTEC HVLV SFCx2 FEED CONNECTOR ASTM D4491 TESTING METHOD. WHERE SPECIFIED - 1-2 INCH [25-50 mm] WASHED, CRUSHED STONE 13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 CULTEC NO. 410 NON-WOVEN GEOTEXTILE 15. THE CONTACTOR 100RHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER CULTEC CONTACTOR 100HD AROUND STONE. TOP AND SIDES MANDATORY, HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END MIN. 95% COMPACTED FILL HEAVY DUTY CHAMBER BOTTOM PER ENGINEER'S DESIGN PREFERENCE PLATES OR SEPARATE END WALLS. **CULTEC NO. 4800™ WOVEN GEOTEXTILE** CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED B' PAVEMENT OR FINISHED GRADE 16. THE CONTACTOR 100EHD MIDDLE/END UNIT MUST BE FORMED AS A WHOLE CHAMBER WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC 8.0" [203 mm] MIN. FOR PAVED HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND MANIFOLD FEATURE, IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A 10.0" [254 mm] MIN. FOR UNPAVED HAVING NO SEPARATE END PLATES OR END WALLS. BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE 17. THE HVLV SFCX2 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING 12.0' [3.66 m] MAX. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END COVER DEPTH (203-775-4416 OR 1-800-428-5832) WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CONTACTOR 100HD AND 6.0" [152 mm] MIN. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE ACT AS CROSS FEED CONNECTIONS. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD. 18. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN MODEL 100EHD 4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 12.5" [318 mm] THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT 19. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD. ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. 6.0" [152 mm] MIN. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 20. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD. 7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2, 740 ALONG THE LENGTH OF THE CHAMBER. LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD. 21. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 MODEL 100EHD CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT. LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD. INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES 40.0" [1016 mm] MIN. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 (FOR SCOUR PROTECTION) CENTER-TO-CENTER 22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY TESTING METHOD. CORRUGATION. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD. CULTEC HVLV SFCx2 THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM PROJECT ENGINEER OF RECORD OR GEOTECHNICAL CONSULTANT IS RESPONSIBLE FOR FEED CONNECTOR 23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY. TRIM PORTAL TO UTILIZE INTERNAL ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET MANIFOLD FEATURE 12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING 24. MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 12.0 FEET [3.66 m] 13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 MODEL 100RHD TESTING METHOD 14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING (100HD) 5.0 **GENERAL NOTES CULTEC CONTACTOR 100HD HEAVY DUTY TYPICAL INTERLOCK** CULTEC CONTACTOR 100HD HEAVY DUTY SYSTEM CROSS SECTION PAVEMENT OR FINISHED GRADE INLET/OUTLET PIPE PER ENGINEER DESIGN. PIPE TO BE INSERTED 12.0" [305 mm] MIN. INTO CHAMBER 10.0" [250 mm] HDPE PAVEMENT SUB-BASE 10.0" [250 mm] PVC PAVEMENT OR FINISHED GRADE **→** 19.7" [500 mm] → CULTEC HVLV SFCx2 FEED CONNECTOR MIN. 95% COMPACTED FILL — 1-2 INCH [25-50 mm] WASHED, CRUSHED STONE WHERE SPECIFIED MIN. 95% COMPACTED FILL OPTIONAL INSPECTION PORT CULTEC NO. 410 NON-WOVEN GEOTEXTILE AROUND (SEE DETAIL $\left(\frac{100\text{HD}}{9.0}\right)$) CULTEC NO. 410 NON-WOVEN GEOTEXTILE AROUND → 24.0" [600 mm] MIN. STONE. TOP AND SIDES MANDATORY. BOTTOM PER STONE. TOP AND SIDES MANDATORY, BOTTOM PER ENGINEER'S DESIGN PREFERENCE 12.0" [305 mm] — |-FIELD PLACED CLASS "C" CONCRETE 13.5" FIELD PLACED CLASS "C" CONCRETE COLLAR ENGINEER'S DESIGN PREFERENCE COLLAR (OPTION 1) 1.50" [40 mm] BELOW PAVEMENT (OPTION 2) FLUSH WITH PAVEMENT PAVEMENT OR FINISHED GRADE 6.0 INCH [152 mm] MIN. DEPTH OF 1-2 INCH [25-50 mm] PAVEMENT OR FINISHED GRADE WASHED, CRUSHED STONE ABOVE CHAMBERS MIN. 95% COMPACTED 7.5' [2.29 m] MIN. GRANULAR FILL CULTEC NO. 4800 WOVEN GEOTEXTILE CULTEC CONTACTOR 100HD 8.0" [200 mm] MIN. HEAVY-DUTY CHAMBER AASHTO HS-25 RATED CAST IRON FRAME AND SOLID COVER - 6.0 INCH [152 mm] MIN. DEPTH OF 1-2 INCH [25-50 mm] WASHED, CRUSHED STONE BELOW CHAMBERS 6" [150 mm] PVC SCREW IN CAP 6.0" [150 mm] MIN 12" X 6" [300 mm X 150 mm] CULTEC INLINE DRAIN / CLEAN-OU BASIN w/ GASKETED SDR-35 CONNECTION CULTEC CONTACTOR 100HD **HEAVY DUTY CHAMBER** 10.0' [3.0 m] MIN. 6" [150 mm] SDR-35 RISER (LENGTH VARIES) CULTEC NO. 4800 WOVEN GEOTEXTILE PROJECT ENGINEER OF RECORD OR GEOTECHNICAL CONSULTANT 6.25" [160 mm] HOLE TO BE CUT w/ HOLE PLACED BENEATH INLET PIPES IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED BEARING SAW CENTERED ON CORRUGATION CREST CAPACITY OF SUB-GRADE SOILS HAS BEEN MET 12.0 INCH [305 mm] MIN. WIDTH OF 6" [150 mm] SDR-35 BELL END SIDE PORTAL TO BE CUT IN FIELD TO ALLOW FOR HVLV SFCx2 FEED 1-2 INCH [25-50 mm] WASHED, CRUSHED CUT FOR 6" [150 mm] OF INSERTED PIPE CONNECTOR OR STORM PIPE AS NEEDED (SEE FIGURE 1), CUT SHALL STONE BORDER SURROUNDING ALL CHAMBERS BE WITHIN 1/4" [6 mm] TOLERANCE OF SIDE PORTAL TRIM GUIDELINE FIGURE 1 CULTEC NO. 4800 WOVEN GEOTEXTILE TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES (FOR SCOUR PROTECTION) PIPE PER ENGINEER DESIGN. PIPE TO BE INSERTED 12.0 INCHES [305 mm] MIN. INTO CHAMBER MAXIMUM PIPE SIZE: 10.0" [250 mm] HDPE 10.0" [250 mm] PVC ZOOM OF SIDE PORTAL SHOWING MAX. PIPE 0.1 **CULTEC HVLV SFCx2 OPTIONAL INSPECTION PORT - ZOOM DETAIL CULTEC MANIFOLD - OPTIONAL INSPECTION PORT DETAIL CULTEC CONTACTOR 100HD HEAVY DUTY PLAN VIEW FEED CONNECTOR**

CULTEC, Inc. Subsurface Stormwater Management Systems

P.O. Box 280 878 Federal Road Brookfield, CT 06804

www.cultec.com

PH: (203) 775-4416 PH: (800) 4-CULTEC FX: (203) 775-1462 tech@cultec.com

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS. SIZING. OR SYSTEM DESIGNS.

CONTACTOR 100HD DETAIL SHEET TRAFFIC APPLICATION

CULTEC STORMWATER CHAMBER PROJECT NO: 2018 CULTEC, INC CHECKED BY: TECH DRAWN BY: SCALE: SHEET NO: 1 OF 1 N.T.S.

MODEL 100EHD

— 12.0" [305 mm] MIN.

MAX. PIPE:

6" [150 mm] HDPE

6" [150 mm] PVC

CULTEC CONTACTOR® 100HD CHAMBER PRODUCT SPECIFICATIONS

CULTEC CONTACTOR 100HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. 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 BLUE EXTERIOR
- 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
- 4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 5. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE
- COUPLINGS OR SEPARATE END WALLS. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR 100HD SHALL BE 12.5 INCHES (318 mm) TALL, 36 INCHES (914 mm) WIDE AND 8 FEET (2.44 m) LONG. THE

INSTALLED LENGTH OF A JOINED CONTACTOR 100HD SHALL BE 7.5 FEET (2.29 m).

- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 10 INCHES (250 mm).
- 8. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® SFCX2 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 5.75 INCHES (146 mm) HIGH BY 7.5 INCHES (191 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 6.9 INCHES (175 mm)
- 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV SFCX2 FEED CONNECTOR SHALL BE 7.6 INCHES (194 mm) TALL, 12 INCHES (305 mm) WIDE AND 19.7 INCHES (500 mm)
- 10. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR 100HD CHAMBER SHALL BE 1.866 FT³ / FT (0.173 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED CONTACTOR 100HD SHALL BE 13.995 FT3 / UNIT (0.396 m3 / UNIT) - WITHOUT STONE.
- 11. THE NOMINAL STORAGE VOLUME OF THE HVLV SFCX2 FEED CONNECTOR SHALL BE 0.294 FT³ / FT (0.027 m³ / m) - WITHOUT STONE.
- 12. THE CONTACTOR 100HD CHAMBER SHALL HAVE FORTY-FOUR DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF
- 13. THE CONTACTOR 100HD CHAMBER SHALL HAVE 16 CORRUGATIONS.
- 14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS
- 15. THE CONTACTOR 100RHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.

16. THE CONTACTOR 100EHD MIDDLE/END UNIT MUST BE FORMED AS A WHOLE CHAMBER

- 17. THE HVLV SFCX2 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 SHALL FIT INTO THE SIDE PORTALS OF THE CONTACTOR 100HD AND ACT AS CROSS FEED CONNECTIONS.
- 18. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN
- 19. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 20. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- 21. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- 22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- 23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
- 24. MAXIMUM ALLOWED COVER ON TOP OF UNIT SHALL BE 12.0 FEET [3.66 m]

CULTEC HVLV® SFCx2 FEED CONNECTOR

- CULTEC HVLV SFCx2 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC CONTACTOR 100HD STORMWATER CHAMBERS.
- 1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416
- OR 1-800-428-5832) 2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH
- 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
- 4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
- 5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV SFCX2 FEED CONNECTOR SHALL BE 7.6 INCHES (194 mm) TALL, 12 INCHES (305 mm) WIDE AND 19.7 INCHES (500 mm) LONG.
- 6. THE NOMINAL STORAGE VOLUME OF THE HVLV SFCX2 FEED CONNECTOR SHALL BE 0.294 FT3 / FT (0.027 m3 / m) - WITHOUT STONE.

DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.

7. THE HVLV SFCX2 FEED CONNECTOR CHAMBER SHALL HAVE 3 CORRUGATIONS.

ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.

- 8. THE HVLV SFCX2 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 SHALL FIT INTO THE SIDE PORTALS OF THE CONTACTOR 100HD STORMWATER CHAMBER AND
- 9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE

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

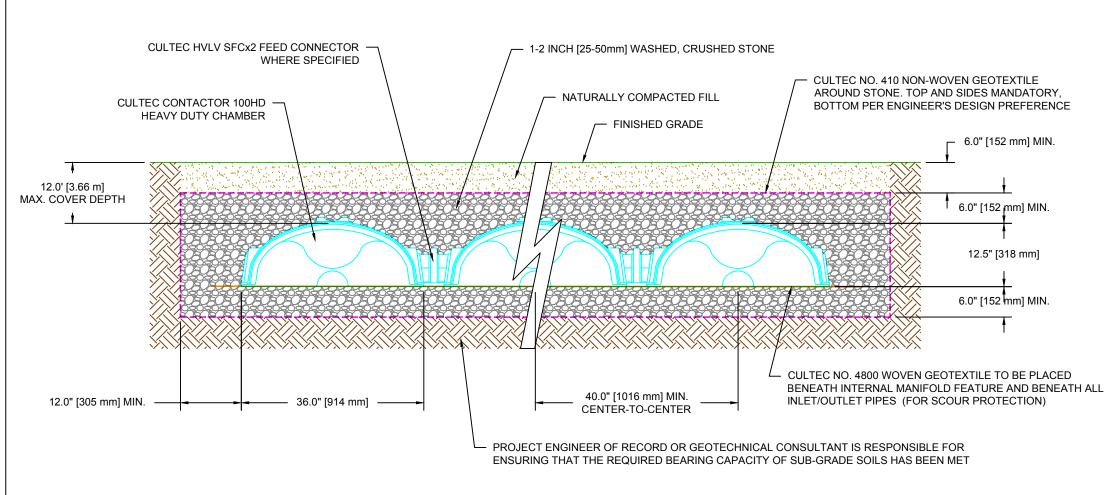
CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE

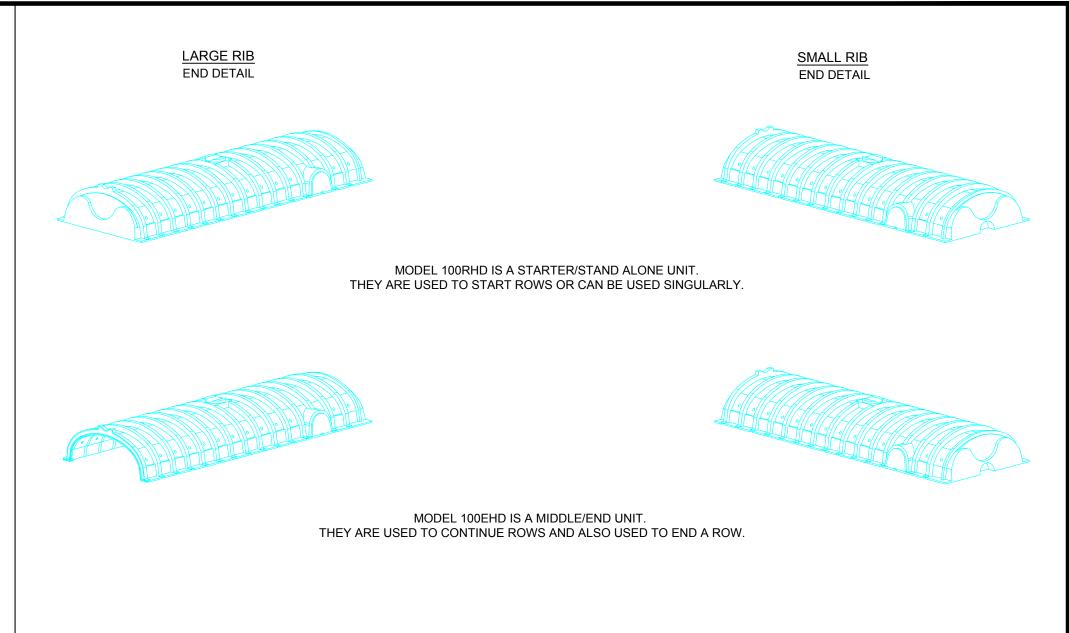
TESTING METHOD.

- 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- 3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD. 4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632
- TESTING METHOD. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT
- (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
- 6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096
- (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD 7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2, 740
- LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD. 8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
- 9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241
- 10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM
- D4751 TESTING METHOD 12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING
- 13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491
- 14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING

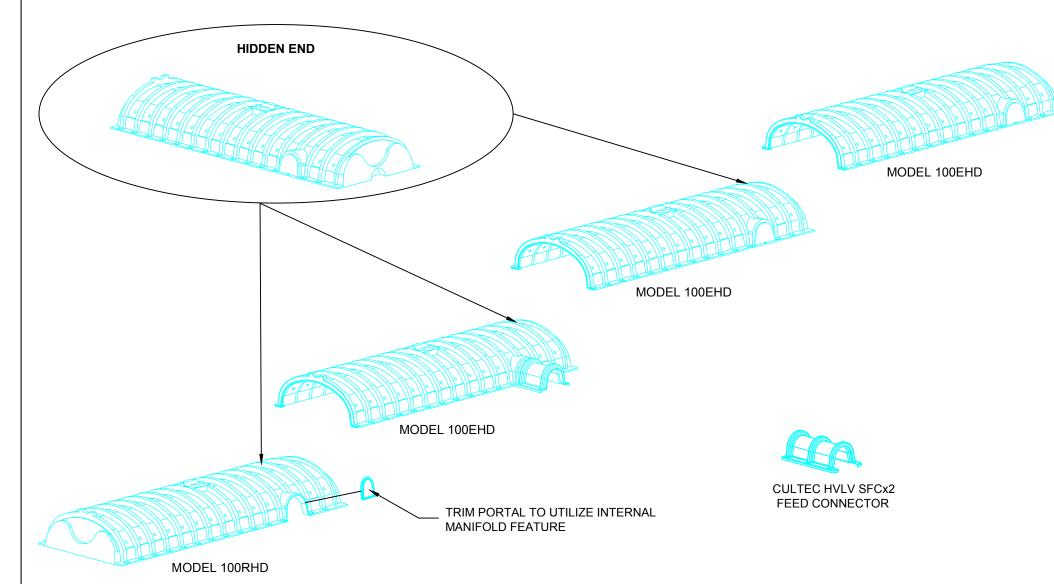
MODEL 100RHD STARTER 6.0" [150 mm] DIA. INSPECTION PORT KNOCK-OUT SMALL RIB LARGE RIB 36.0" [914mm] MODEL 100EHD MIDDLE/END SMALL RIB LARGE RIB INSTALLED LENGTH = 90.0" [2286mm] OPTIONAL 4.5" [114 mm] DIA. KNOCK-OUT -LARGE RIB -12.5" [318mm] 6.0" [152mm ∠ SIDE PORTAL FOR OPTIONAL INTERNAL MANIFOLD (ACCOMMODATES CULTEC HVLV SFCx2 FEED CONNECTOR OR STORM PIPE) CULTEC CONTACTOR 100HD CHAMBER STORAGE = 1.866 CF/FT [0.173 m³/m] INSTALLED LENGTH ADJUSTMENT = 0.5' [0.15 m] 6" [150 mm] HDPE ALL CONTACTOR 100HD HEAVY DUTY UNITS ARE MARKED WITH A COLORED 6" [150 mm] PVC STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER

CULTEC CONTACTOR 100HD HEAVY DUTY THREE VIEW

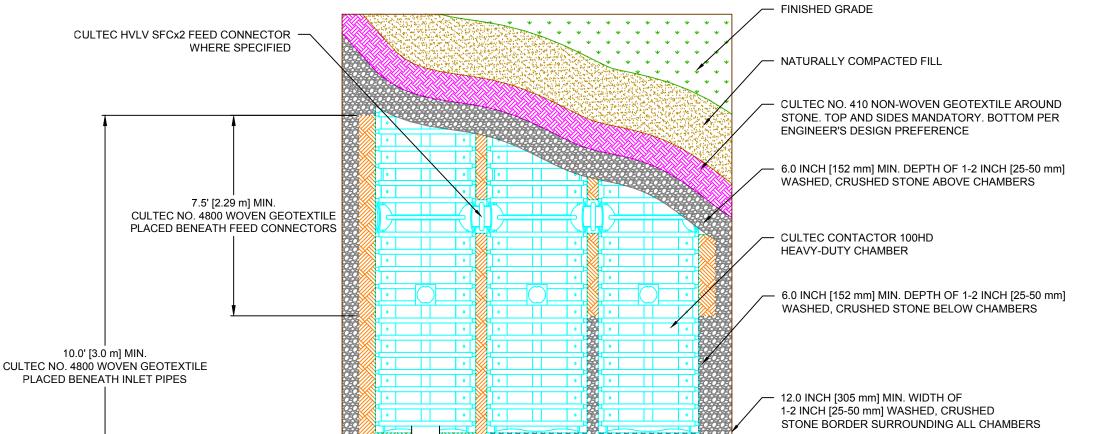




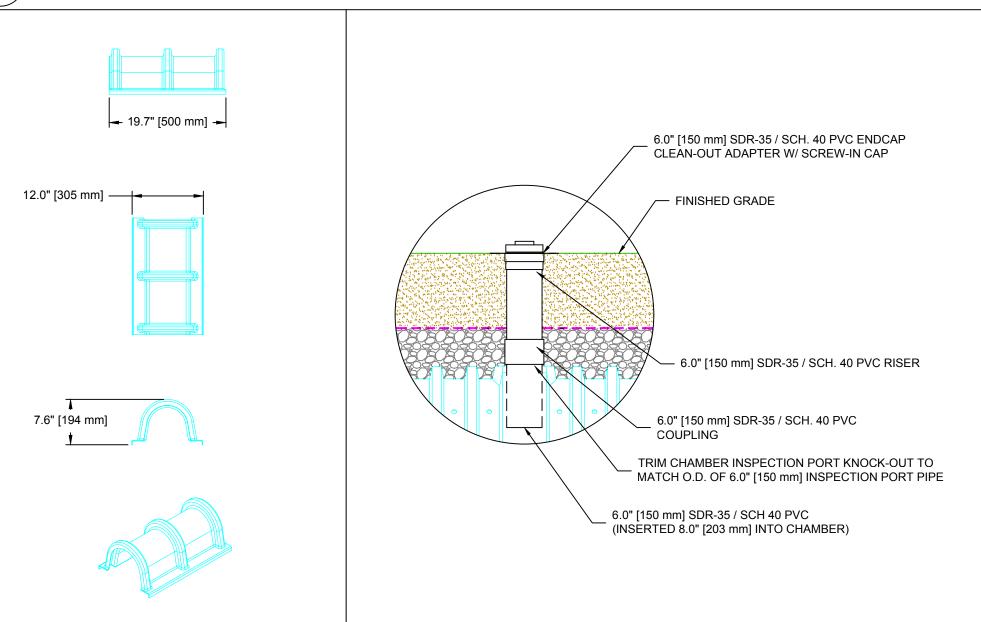
CULTEC CONTACTOR 100HD HEAVY DUTY END DETAIL INFORMATION



GENERAL NOTES

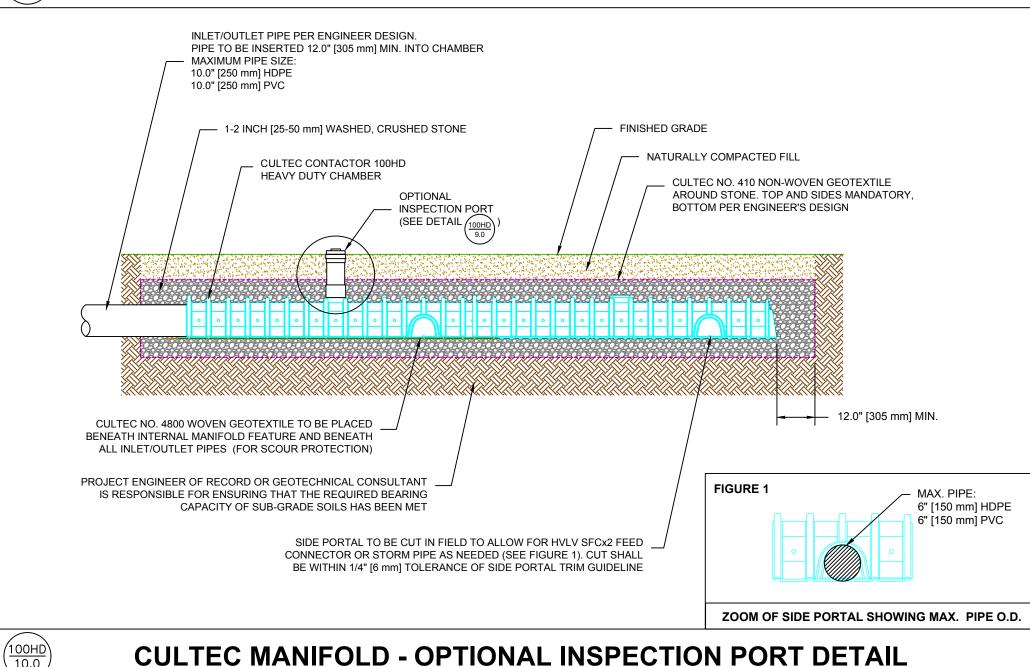


CULTEC CONTACTOR 100HD HEAVY DUTY SYSTEM CROSS SECTION



OPTIONAL INSPECTION PORT - ZOOM DETAIL

CULTEC CONTACTOR 100HD HEAVY DUTY TYPICAL INTERLOCK



CULTEC CONTACTOR 100HD HEAVY DUTY PLAN VIEW

PIPE TO BE INSERTED 12.0 INCHES [305 mm] MIN. INTO CHAMBER

PIPE PER ENGINEER DESIGN.

MAXIMUM PIPE SIZE:

10.0" [250 mm] HDPE 10.0" [250 mm] PVC

CULTEC, Inc. Subsurface Stormwater Management Systems

P.O. Box 280 878 Federal Road Brookfield, CT 06804

www.cultec.com

PH: (203) 775-4416 PH: (800) 4-CULTEC FX: (203) 775-1462 tech@cultec.com

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.

CULTEC HVLV SFCx2

FEED CONNECTOR

CONTACTOR 100HD DETAIL SHEET NON-TRAFFIC APPLICATION

CULTEC STORMWATER CHAMBER PROJECT NO: 2018 CULTEC, INC CHECKED BY: TECH **DRAWN BY:** SCALE: N.T.S. SHEET NO: 1 OF 1