FINAL ASSEMBLY SOLID COVER OPTION SLOTTED COVER OPTION DUCTILE IRON FRAME DUCTILE IRON FRAME HINGE FOR EASY ACCESS DPG OF SOLID DUCTILE IRON COVER THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR. AMBER PARAMETERS THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT, USA. (203-775-4416 OR 1-800-428-5832) CHAMBER 3. THE CHAMBER SHALL BE ARCHED IN SHAPE MODEL RHD 4. THE CHAMBER SHALL BE OPEN-BOTTOMED CULTEC 12" [300mm] PVC UNIVERSAL INLINE DRAIN BOD' [PART #2712AGSB] Β. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HYLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT*/FT (0.085 m*/m)-wiTHOUT STONE. СНЕСКЕD В THE CHAMBER SHALL BE ARCHED IN SHAPE MODEL 330XLSHD STARTER SHEET 4. THE CHAMBER SHALL BE OPEN-BOTTOMED. DATE: STORMWATER UNITS ARE USED TO BEGIN A LINE. 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 MODEL SHD THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 m). ____ 13.6" [346 mm] -10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY CULTEC NO. 410¹¹ NON-MOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORHWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STORE PVC BODY PLAN VIEW PVC BODY ELEVATION VIEW MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES (600 mm) HDPE THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV9 FC-24 FEED CONNECTORS TO GREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSION OF FACH SIDE FORTAL SHALL BE TO IS INCHES (327 mm) HIGHES YITS MCHES (327 mm) HUGE MAXIMUM ALLOWABLE OUTER DIAMETER (0.0.) PIPE SIZE IN THE SIDE PORTAL BE 1.1.5 MCHES (328 mm) WIDE: MAXIMUM ALLOWABLE OUTER DIAMETER (0.0.) PIPE SIZE IN THE SIDE PORTAL BE 1.1.5 MCHES (328 mm). MODEL IHE CULTEC GEOTEXTILE PARAMETER LENGTH OF A LINE STANDARD OPENING FOR 6" [150 mm] SDR-35 RISER PIPE THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832 - CULTEC CHAMBER THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTO SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE 3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M) THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D463. TESTING METHOD. 0. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7489 FT³ FT (0.883 m³/m). WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.215 FT³ / UNIT (1.478 m³ / UNIT). - WITHOUT STONE. MODEL EHD THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD. DESIGNED PROJECT ! 3.2" [81 m . THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT 3 / FT (0.085 m 3 / m) - WITHOUT STONE. ____ 11 0" [279 mm] ___ . THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER. 9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 **CULTEC UNIVERSAL INSPECTION PORT KIT DETAIL CULTEC RECHARGER 330XLHD HEAVY DUTY END DETAIL INFORMATION** 13. THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS. 11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTIN 12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD. HIDDEN END - END OF RUN CULTEC AFAB-HPF™ WOVEN GEOTEXTILE CULTEC AFAB-HPF WOVEN GEDITATILE CULTEC AFAB-HPF WOVEN GEDITATILE CULTEC AFAB-HPF WOVEN GEDITATILE 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 THE RECHARGER 330XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm HIGH X 34.5 NOHES (876 mm) WIDE. NUN-WOVEN GEOTEXTILE AROUND STONE. TOP AND SIDES MANDATORY, BOTTOM PER ENGINEER'S DESIGN PREFERENCE. SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE CULTEC RECHARGER 330XLHD -THE RECHARGER 330XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832) THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE. 10.0" [254mm] MIN. FOR FLEXIBLE PAVFMFN THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBE HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 320 X 320 LBS (1,420 X 1,420 N) PER ASTM D4632 TESTING METHOD. 12' [3.65m] MAX. COVER DEPTH SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS. HIDDEN END THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632 TESTING METHOD. 20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS. MODEL 330XLIHD THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 3,563 X 3,563 LBS/FT (52 X 52 KN/M) PER ASTM D4595 TESTING METHOD. THE CHAMBER SHALL HAVE A 6 INCH (152 mm) DIAMETER 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. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,500 LBS (6,670 N) PER ASTM D6241 TESTING METHOD. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 120 X 120 LBS (540 X 540 N) PER ASTM D4533 TESTING METHOD. 22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 30 US STD. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD. MODEL 330XLIHD 52.0" [1321mm] ---23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY RECHARGER 9. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.2 SEC-1 PER ASTM D4491 TESTING METHOD. 1. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 22 GPM/FT2 (900 LPM/M2) PER ASTM D4491 TESTING METHOD. 24. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m) CAPACITY OF SUB-GRADE SOILS HAVE BEEN MET 25. THE INSTALLED CHAMBER SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO LIVE LOADS AS DEFINED BY THE AASHTO H-20/HL-93 SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED DETAIL 11. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD. MODEL 330XLSHD CULTEC HVLV FC-24 FEED CONNECTOR **CULTEC RECHARGER 330XLHD CROSS SECTION CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL INTERLOCK GENERAL NOTES** MODEL 330XLRHD STAND ALONE MALL RIB LARGE RIB FIELD PLACED CLASS "C" CONCRETE COLLAR. CONCRETE COLLAR CAN RECEIVE ASPHALT OVERLAY IF DESIRED ment Systems : 1(203) 775-4416 : 1(800) 4-CULTEC -tech@cultec.com AASHTO HS-20 RATED DUCTILE IRON MODEL 330XLSHD STARTER MALL RIB LARGE RIE FRAME AND COVER COMPACTED GRANULAR BACKFILL. THE BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF CLASS I, II, OR III MATERIALS AS DEFINED BY ASTM D2321 EC H H H MODEL 330XLIHD INTERMEDIAT LARGE RIB -COL. CULTEC FC-24 Road T 06804 CULTEC 12" PVC UNIVERSAL INLINE DRAIN BODY 12" PVC UNIVERSAL INLINE DRAIN BODY CAN BE TRIMMED TO ACCOMMODATE 6" [150mm], 8" [200mm] AND 10" [250mm] SDR-35 PVC PIPE 6" [150mm], 8" [200mm], OR 10" [250mm] SDR-35 RISER (LENGTH VARIES BASED ON SYSTEM DEPTH) MODEL 330XLEHD END HOLE TO BE CUT w/ HOLE SAW CENTERED → 34.5" [876mm] → ON CORRUGATION CREST. 6.25" [160mm], 8.50" [220mm], OR 10.75" [275mm] - 52 0" [1321mm] -SDR-35 PIPE. BELL END CUT AND INSERTED 6.0" [150mm] INTO CHAMBER CULTEC RECHARGER 330XLHD CHAMBER STORAGE = 7.459 CF/FT [0.693 m³/m] INSTALLED LENGTH ADJUSTMENT = 1.5' [0.46 m] SIDE PORTAL ACCEPTS CULTEC HVLV FC-24 FEED CONNECTOR **CULTEC HVLV FC-24 CULTEC RECHARGER 330XLHD HEAVY DUTY THREE VIEW OPTIONAL CULTEC INSPECTION PORT - ZOOM DETAIL CULTEC SEPARATOR ROW - CULTEC INSPECTION PORT DETAIL (IF APPLICABLE)** FEED CONNECTOR THREE VIEW