CULTEC RECHARGER® 330XLHD PRODUCT SPECIFICATIONS

CULTEC RECHARGER® 330XLHD 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.

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

- 2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE). 3. THE CHAMBER WILL BE ARCHED IN SHAPE
- 4. THE CHAMBER WILL BE OPEN-BOTTOMED.
- 5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS. HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS
- 6. 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 BÉ 7 FEET (2.13 M).
- 7. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES (600 MM).
- 8. THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL WILL BE 10.5 INCHES (267 MM) HIGH BY 12 INCHES (305 MM) WIDE. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM).
- 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16
- 10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 330XLHD CHAMBER WILL BE 7.459 FT3 / FT (0.693 M3 / M) WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER® 330XLHD SHALL BE 52.213 FT3 / UNIT (1.478 M3 / UNIT) - WITHOUT
- 11. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-24 FEED CONNECTOR WILL BE 0.913 FT3 / FT (0.085 M3 / M) WITHOUT STONE.
- 12. THE RECHARGER® 330XLHD CHAMBER WILL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- 13. THE RECHARGER® 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
- 14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT
- 15. THE RECHARGER® 330XLRHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- 16. THE RECHARGER® 330XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 MM) HIGH X 34.5
- 17. 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 INCHES (876 MM) WIDE.
- 18. 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.
- 19. 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 RECHARGER® 330XLHD AND ACT AS CROSS FEED CONNECTIONS.
- 20.CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- 21.HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. 22.THE CHAMBER WILL 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.
- 23.THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- 24.THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
- 25.MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12' (3.65m)

INCHES (876 MM) WIDE.

26.THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

CULTEC HVLV™ FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

CULTEC HVLV™ FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 180HD, 280HD AND 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS 1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

- 2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE
- 3. THE CHAMBER WILL BE ARCHED IN SHAPE
- 4. THE CHAMBER WILL BE OPEN-BOTTOMED.
- 5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 24.2 INCHES (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.
- 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 AASHTO H-25 LOAD RATING WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 10.THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

7. THE HVLV™ FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.

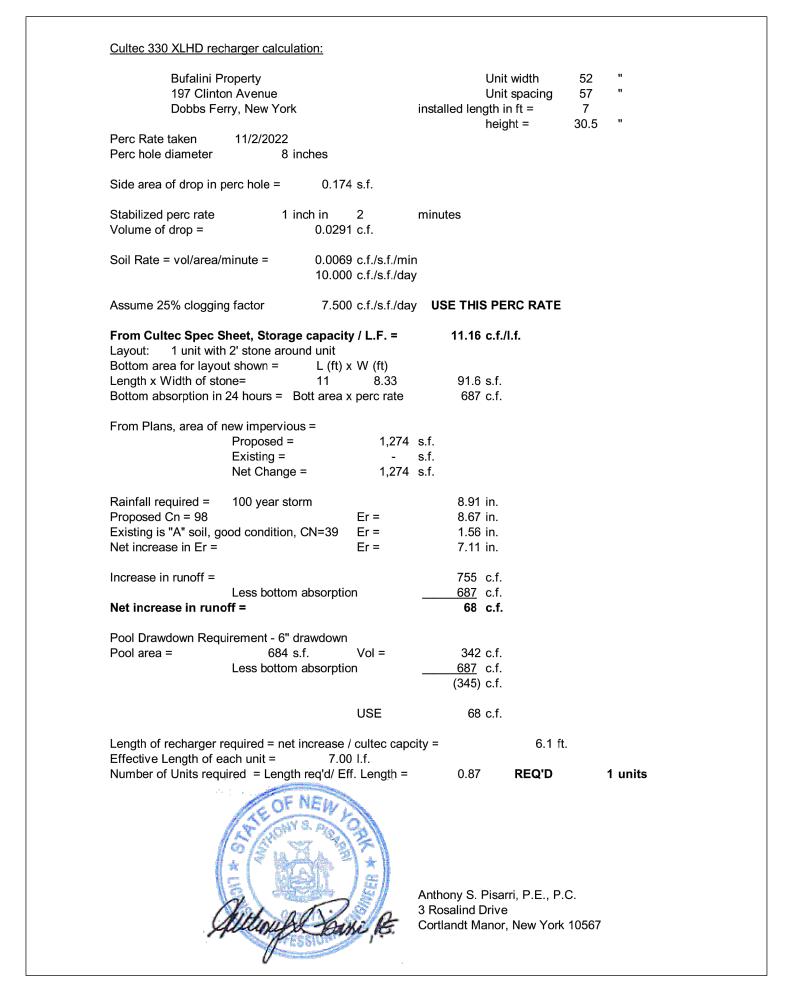
CULTEC NO. 20L™ POLYETHYLENE LINER

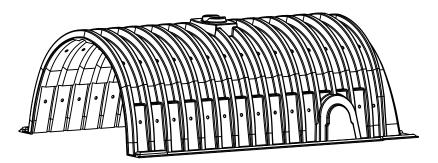
CULTEC NO.™ 20L POLYETHYLENE LINER IS DESIGNED AS AN IMPERVIOUS UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

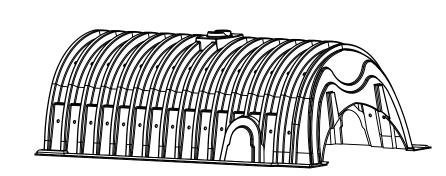
LINER PARAMETERS

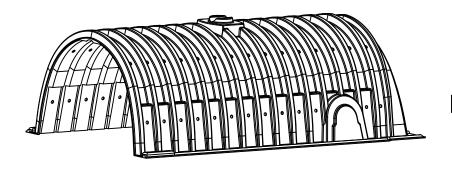
- 1. THE LINER WILL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- 2. THE LINER WILL BE BLACK IN APPEARANCE.
- 3. THE LINER WILL HAVE A NOMINAL THICKNESS OF 20 MIL (0.51 MM).
- 4. THE LINER WILL HAVE A WEIGHT OF 93 LBS/MSF (453 G/M2).
- 5. THE LINER WILL HAVE A TENSILE STRENGTH @ BREAK 1" (2.54 CM) OF 75 LBS (334 N) PER ASTM D6693 TESTING METHOD.
- 6. THE LINER WILL HAVE AN ELONGATION AT BREAK OF 800% PER ASTM D6693 TESTING METHOD.
- 7. THE LINER WILL HAVE A TEAR RESISTANCE OF 11 LBF (49 N) PER ASTM D1004 TESTING METHOD.
- 8. THE LINER WILL HAVE A HYDROSTATIC RESISTANCE OF 100 PSI (689 KPA) PER ASTM D751 TESTING METHOD
- 9. THE LINER WILL HAVE A PUNCTURE RESISTANCE OF 30 LBF (133 N) PER ASTM D4833 TESTING METHOD.
- 10. THE LINER WILL HAVE A VOLATILE LOSS OF <1% PER ASTM D1203 TESTING METHOD.
- 11. THE LINER WILL HAVE A DIMENSIONAL STABILITY OF <2% PER ASTM D1204 TESTING METHOD.
- 12. THE LINER WILL HAVE A MAXIMUM USE TEMPERATURE OF 1800 F (820 C).
- 13. THE LINER WILL HAVE A MINIMUM USE TEMPERATURE OF -700 F (-570 C).
- 14. THE LINER WILL HAVE A PERM RATING OF 0.041 U.S. PERMS (0.027 METRIC PERMS) PER ASTM E96 METHOD A.
- 15. THE LINER WILL CONSIST OF A BLENDED LINEAR POLYETHYLENE.
- 16. THE LINER WILL NOT CONTAIN PLASTICIZERS

FOR SOIL TESTING RESULTS, SEE COVER PLAN

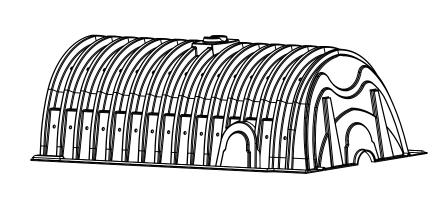


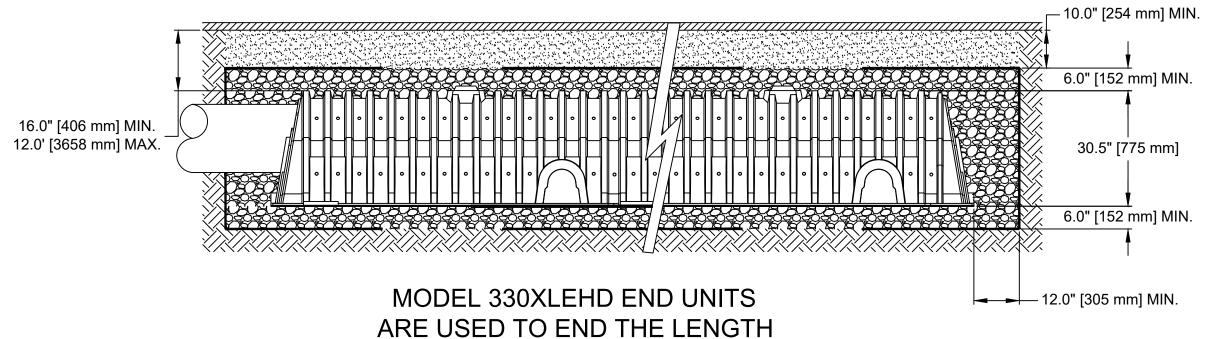


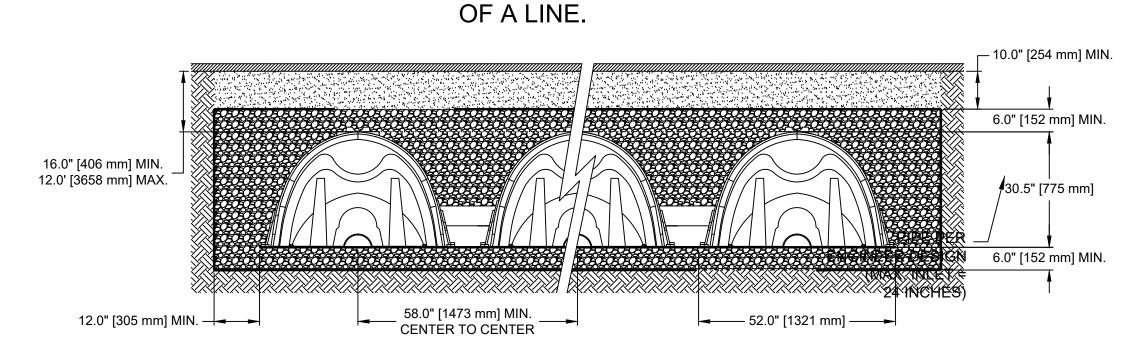




MODEL 330XLIHD INTERMEDIATE UNITS ARE USED AS MIDDLE SECTIONS TO EXTEND THE LENGTH OF A LINE.





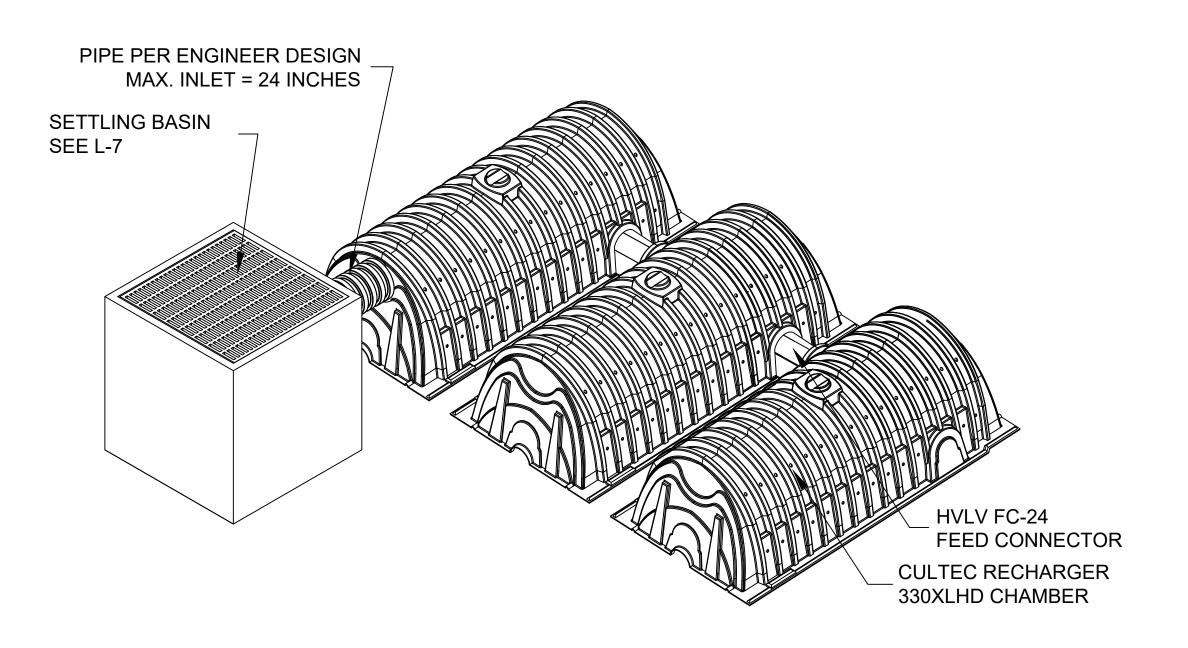


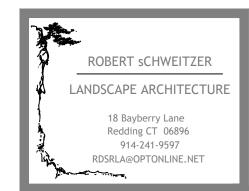
GENERAL NOTES RECHARGER 330XLHD BY CULTEC, INC. OF BROOKFIELD,CT. STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE

THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO

CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

ALL RECHARGER 330XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.







NY- # 001758 CT-# Iar.0001151

REVISIONS

Details DRAWN BY: Robert D. Schweitzer SCALE: As Specified SUBMITTAL:

DRAWING:

Town Approval

DATE:

1/15/23

PREMISES 197 Clinton Avenue Dobbs Ferry, NY

Bufalini Residence 197 Clinton Avenue Dobbs Ferry, NY

PROPERTY OWNER

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