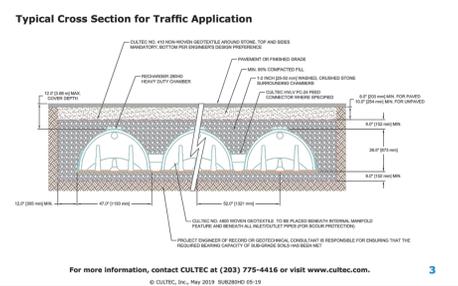
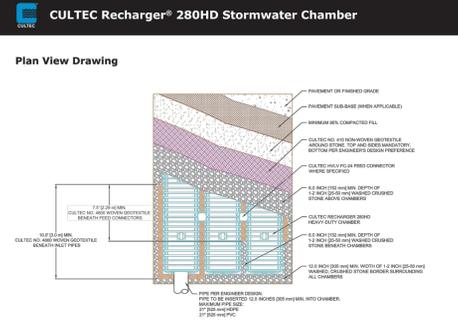
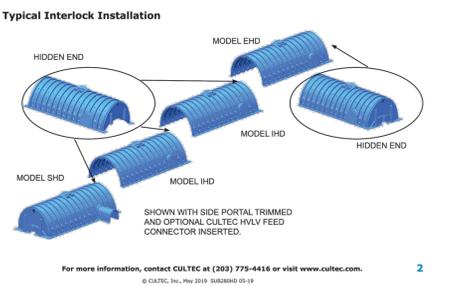
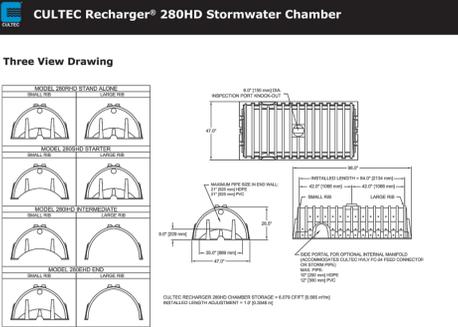


FM # 7649



CULTEC Recharger® 280HD Specifications

GENERAL: CULTEC Recharger® 280HD chambers are designed for underground stormwater management. The chambers may be used for retention, recharge, detention or controlling the flow of on-site stormwater runoff.

CHAMBER PARAMETERS

- The chambers shall be manufactured in the U.S.A. by CULTEC, Inc. of Brookfield, CT (CULTEC.com, 203-775-4416).
- The chamber shall be vacuum thermoformed of polyethylene with a black interior and blue exterior.
- The chamber shall be arched in shape.
- The chamber shall be open bottomed.
- The chamber shall be joined using an interlocking overlapping rib method. Connections must be fully supported over ribs, having no separate couplings or separate end walls.
- The chamber shall be joined using the CULTEC Recharger® 280HD shall be 26.5 inches (673 mm) tall, 47 inches (1194 mm) wide and 8 feet (2.44 m) long. The installed length of a joined Recharger® 280HD shall be 7 feet (2.13 m).
- Maximum inlet opening on the chamber end shall be 21 inches (533 mm) Hx16 inches (406 mm) W.
- The chamber shall have two side portals to accept CULTEC HVALV® FC-24 Feed Connectors to create an internal manifold. Maximum allowable C.D. in the side portal is 10 inches (254 mm) Hx16 inches (406 mm) W.
- The nominal chamber dimensions of the CULTEC HVALV® 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 Recharger® 280HD chamber shall be 6.079 ft³ (0.172 m³) without stone. The nominal storage volume of a single Recharger® 280HD Stand Alone unit shall be 48.83 ft³ (1.38 m³) without stone. The nominal storage volume of a joined Recharger® 280HD Intermediate unit shall be 42.533 ft³ (1.205 m³) without stone. The nominal storage volume of the HVALV® FC-24 Feed Connector shall be 0.8 ft³ (0.227 m³) without stone.
- The Recharger® 280HD chamber shall have level-toe discharge holes bored into the sidewalls of the units core to promote lateral convergence of water.
- The Recharger® 280HD chamber shall have 15 corrugations.
- The end wall of the chamber, when present, shall be an integral part of the continuously formed unit. Separate end plates cannot be used with this unit.
- The chamber shall be vacuum thermoformed of polyethylene with a black interior and blue exterior.
- The Recharger® 280HD Stand Alone unit must be formed as a whole chamber having two fully formed integral end walls and having no separate end plates or separate end walls.
- The Recharger® 280HD Intermediate unit must be formed as a whole chamber having one fully formed integral end wall and one partially formed integral end wall with a lower trapezoidal opening of 9 inches (229 mm) high x 35 inches (889 mm) wide.
- The Recharger® 280HD Feed unit must be formed as a whole chamber having one fully formed integral end wall and one fully open end wall and having no separate end plates or end walls.
- The HVALV® 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 shall fit into the side portals of the chamber and act as cross feed connections.
- Chambers must have horizontal stiffening flex reduction steps between the ribs.
- The chamber shall have an arched 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 units may be trimmed to custom lengths by cutting back to the top of the chamber on the large rib end.
- The chamber shall be manufactured to an ISO 9001:2015 certified facility.
- Maximum allowable cover over the top of the chamber shall be 32' (3.66 m).
- The chamber shall be designed to withstand traffic loads when installed according to CULTEC's recommended installation instructions.

NOTES:

- * = VARIANCE REQUESTED
- ** = PRE EXISTING CONDITION

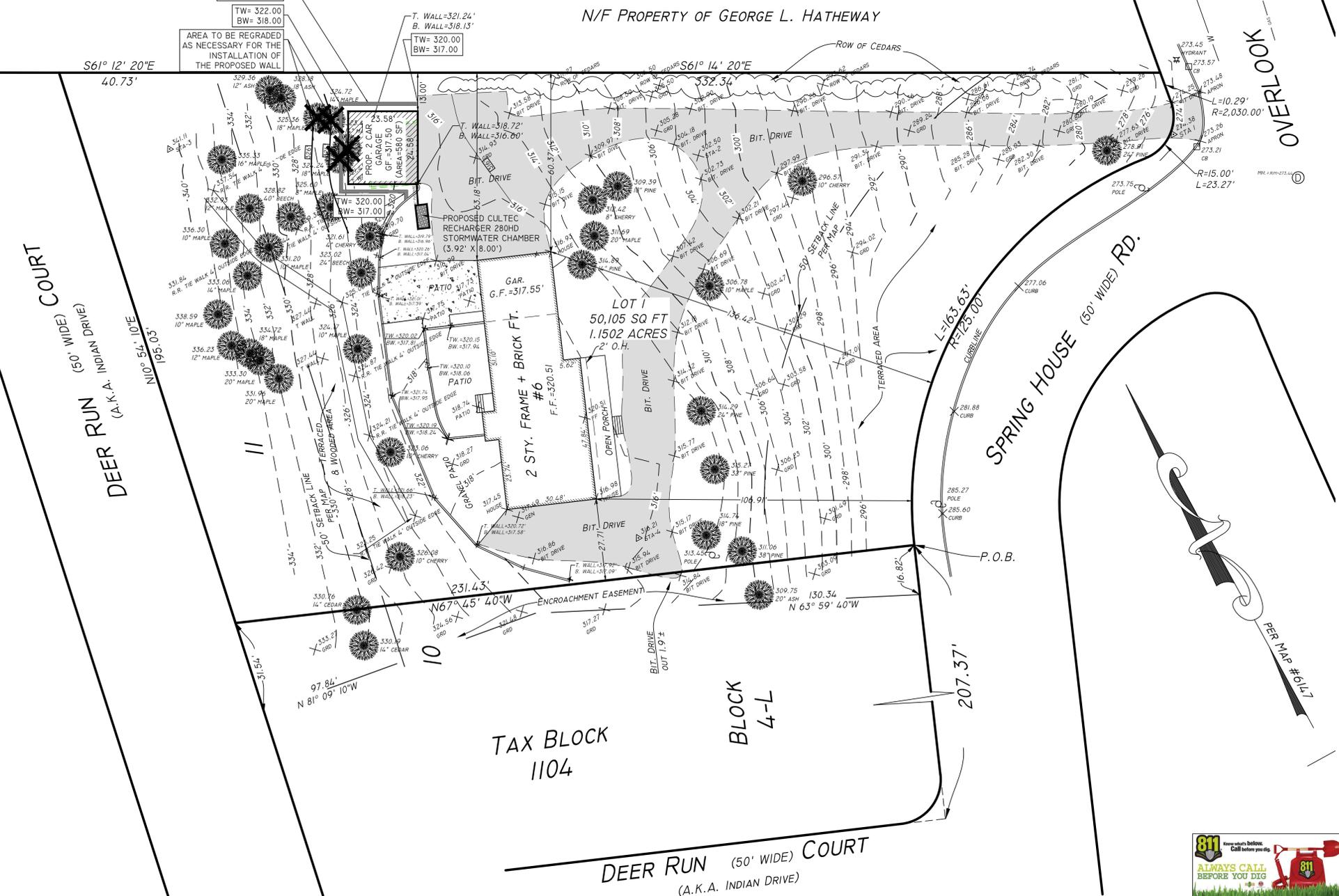
For more information, contact CULTEC at (203) 775-4416 or visit www.cultec.com.

TOPOGRAPHICAL SURVEY

TO SHOW

PROPOSED DETACHED GARAGE

6 SPRINGHOUSE ROAD, WOODCLIFF LAKE, NJ 07677
 TAX LOT No. 1 BLOCK No. 1104
 COUNTY OF BERGEN, STATE OF NEW JERSEY



APPROVED BY THE PLANNING BOARD OF THE BOROUGH OF WOODCLIFF LAKE

DATE: _____

CHAIRMAN: _____

SECRETARY: _____

BOARD ENGINEER: _____

CERTIFIED TO: JONATHAN BLONDE, TO BE CORRECT

ALSO KNOWN AS LOT II IN BLOCK 4-L AS SHOWN ON A CERTAIN MAP ENTITLED "SUBDIVISION PLAT-SECTION NO. 2 WOOD VIEW HEIGHTS, BOROUGH OF WOODCLIFF LAKE, COUNTY OF BERGEN, N.J." AND FILED IN THE BERGEN COUNTY CLERK'S OFFICE ON MAY 22, 1964 AS MAP NO. 614.7.

PROPERTY INFORMATION

STREET ADDRESS: 6 SPRING HOUSE ROAD
 OWNER NAME: BLONDE, JONATHAN & RON
 MAILING ADDRESS: 6 SPRING HOUSE ROAD, WOODCLIFF LAKE, NJ 07677
 BLOCK 1104 LOT 1 BLONDE

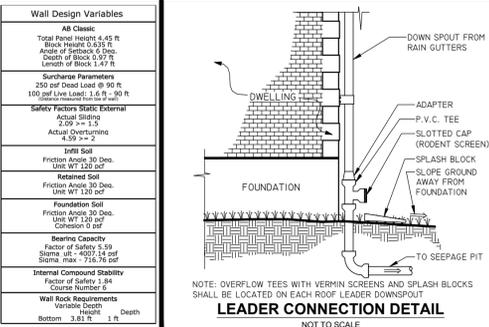
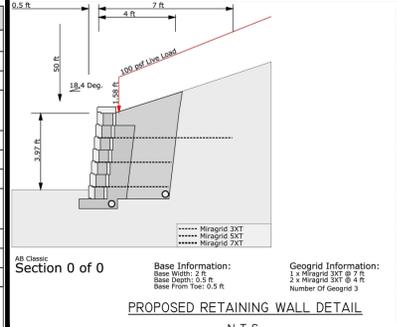
GRAPHIC SCALE

0 10 20 40 80

SHEET 1 OF 1

ZONING SCHEDULE R-30 DISTRICT

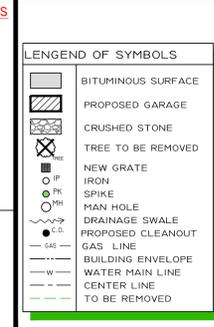
ITEM	REQUIRED	EXISTING	PROPOSED	STATUS
MINIMUM LOT AREA (SQ. FT.)	50,000	50,105	50,105	CONFORMS
MINIMUM FRONT YARD (FT.)	50	106.91	106.91	CONFORMS
MINIMUM SIDE YARD (FT.)	20	27.71	27.71	CONFORMS
MINIMUM REAR YARD (FT.)	60	88.08	88.08	CONFORMS
MINIMUM LOT FRONTAGE (FT.)	50	99.40	99.40	CONFORMS
MINIMUM LOT DEPTH (FT.)	150	197.19	197.19	CONFORMS
MINIMUM BUILDING HEIGHT - STORIES	2	231.43	231.43	CONFORMS
MINIMUM BUILDING HEIGHT - FEET	2 STORIES	26 FEET	26 FEET	CONFORMS
MAXIMUM BUILDING COVERAGE (%)	15%	6.73%	6.73%	CONFORMS
MAXIMUM LOT COVERAGE (%)	30%	28.76%	28.76%	CONFORMS
MINIMUM SIDE YARD (GARAGE) (FT.)	20	N/A	13'	VARIANCE



PROPOSED GARAGE AREA + HEIGHT CALCULATIONS

GARAGE AREA: 23.58' x 24.58' = 579.7569 SF
 AREA: 580 SF
 GF. = 317.50'

GF. TO RP. = 14'-8" = 14.69' (PER ARCH'S PLANS)
 Avg. GRADE: 317.0 + 317.0 + 318.0 + 318.0 = 1,270 / 4 = 317.50
 R.P. ELEV.: 317.50 + 14.69 = 332.19
 GARAGE HEIGHT:
 RP - AVG. GRADE = 332.19 - 317.50 = 14.69
 HEIGHT OF GARAGE = 14.69 FT.



TOPOGRAPHICAL SURVEY TO SHOW PROPOSED GARAGE

ON LOT 1 IN BLOCK 1104
 ON THE TAX MAP OF THE
BOROUGH OF WOODCLIFF LAKE
BERGEN COUNTY, NEW JERSEY

SCALE: 1" = 20' DATE: 07/02/2019 REV. 10/21/2019
 REV. 08/26/2019

STEVEN L. KOESTNER
 P.E. & L.S. N.J. LIC. # 27901 / N.Y. LIC. # 50865
KOESTNER ASSOCIATES
 PROFESSIONAL ENGINEERS & LAND SURVEYORS
 61 HUDSON STREET HACKENSACK, N.J. 07601

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