

SUBSURFACE ROOF RECHARGE UNIT SIZING CALCULATIONS:

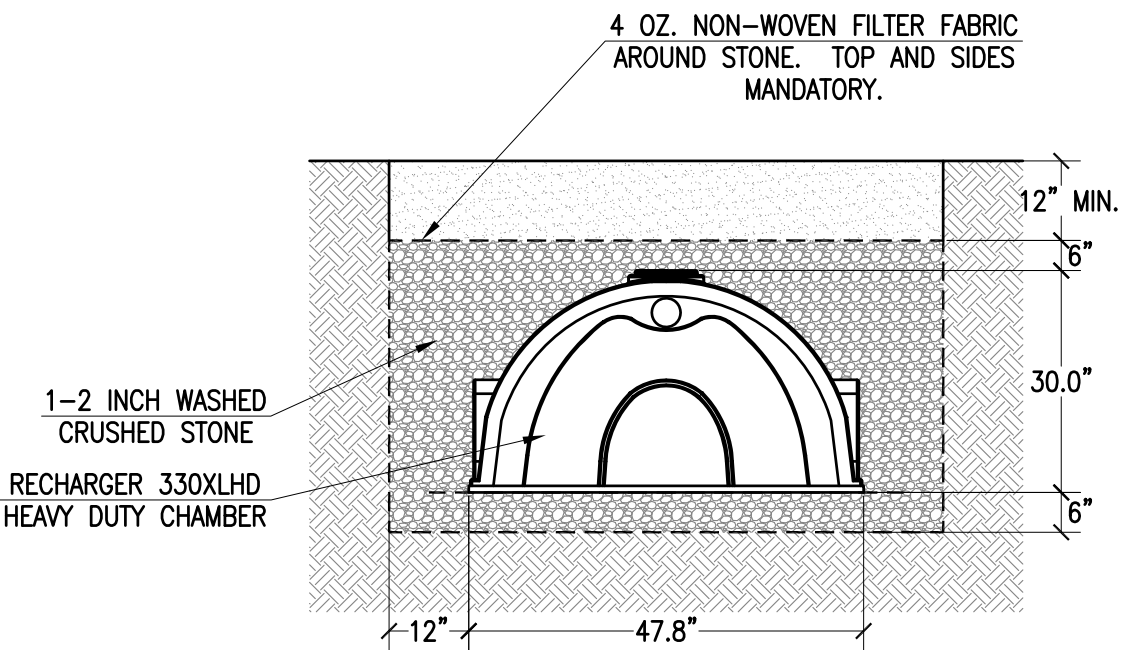
INFLOW AREA = 682 SF, 100.00% IMPERVIOUS, INFLOW DEPTH = 6.76" FOR 100-YEAR STORM EVENT
INFLOW = 0.10 CFS @ 12.09 HRS, VOLUME= 384 CF
OUTFLOW = 0.01 CFS @ 11.60 HRS, VOLUME= 384 CF, ATTN= 88%, LAG= 0.0 MIN
DISCARDED = 0.01 CFS @ 11.60 HRS, VOLUME= 384 CF

ROUTING BY STOR-IND METHOD, TIME SPAN= 0.00-30.00 HRS, DT= 0.05 HRS
PEAK ELEV= 94.94' @ 12.67 HRS SURF.AREA= 66 SF REQUIRED STORAGE= 117 CF

VOLUME	INVERT	AVAIL.STORAGE	STORAGE DESCRIPTION
#1	91.96'	69 CF	6.33'W X 10.50'L X 3.54'H PRISMATOID X 1 236 CF OVERALL - 63 CF EMBEDDED = 172 CF X 40.0% VOIDS
#2	92.46'	63 CF	47.8'W X 30.0'H X 7.00'L PARABOLIC ARCH X 1 INSIDE #1
#3	94.50'	1 CF	0.33'D X 10.0'H VERTICAL CONE/CYLINDER-IMPVIOUS

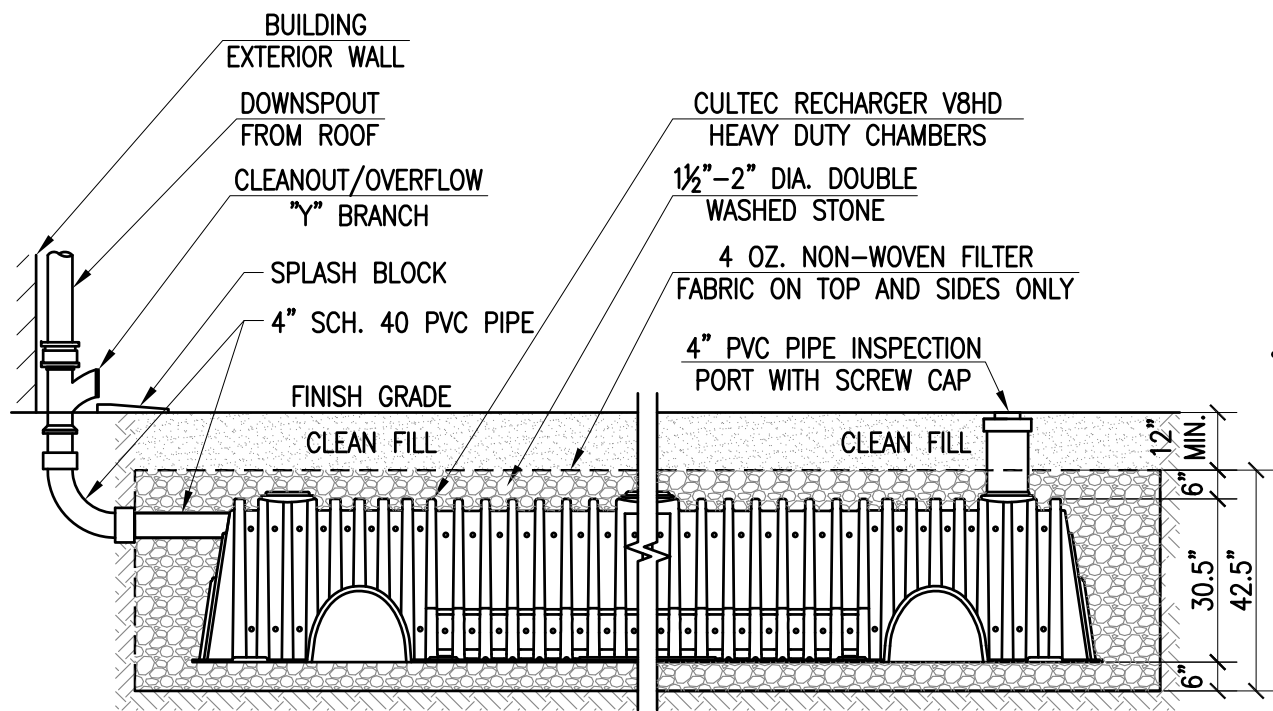
TOTAL AVAILABLE STORAGE = 133 CF >>> 117 CF

*PLEASE NOTE: THESE CALCULATIONS ARE PER UNIT. THERE ARE 2 UNITS ONSITE.



CULTEC RECHARGER 330XLHD STANDARD CROSS SECTION

NOT TO SCALE



ROOF RECHARGE SYSTEM

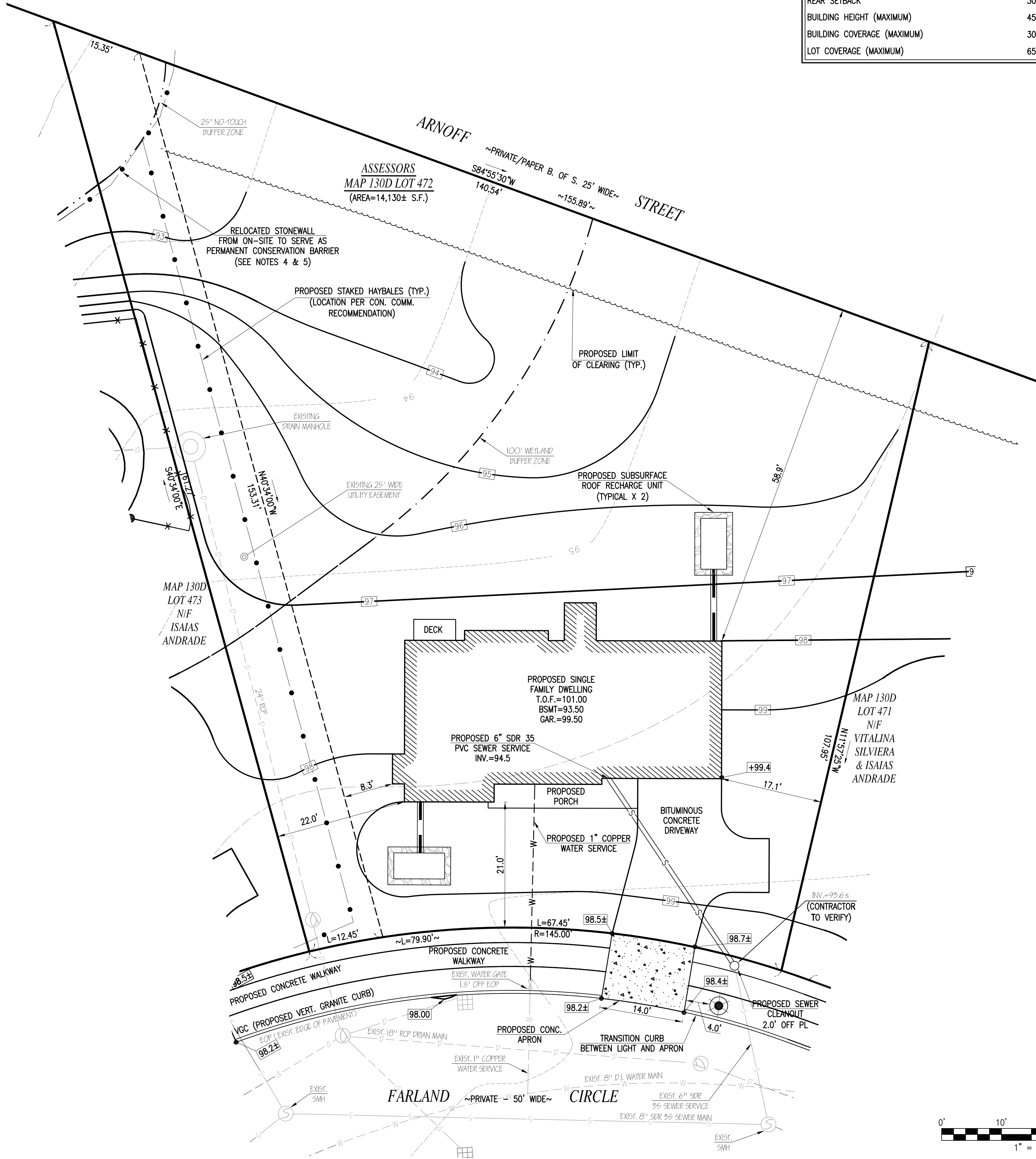
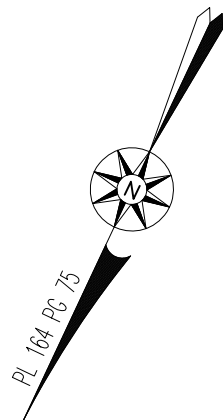
NOT TO SCALE

RECORD OWNER:

ASSESSORS MAP 130D LOT 472
VAZ CONSTRUCTION
51 BRIGHAM STREET
NEW BEDFORD, MA 02740
DEED BOOK 13376 PAGE 91

NOTES:

- TOPOGRAPHIC AND PROPERTY LINE SURVEY PERFORMED BY FARLAND CORP. IN NOVEMBER OF 2017.
- PORTION OF DRIVEWAY BETWEEN EDGE OF ROADWAY AND PROPERTY LINE SHALL BE CONCRETE.
- BORDERING VEGETATED WETLAND FLAGS AND INTERMITTENT STREAM FLAGS WERE SET BY JOHN ZIMMER, P.W.S. IN NOVEMBER OF 2015 AS SHOWN ON PLAN ENTITLED "DEFINITIVE SUBDIVISION PLANS - STONEY BROOK FARM" DATED MAY 11, 2017 BY CAVANARO CONSULTING.
- A SIGN STATING PROTECTED CONSERVATION AREA EXISTS BEYOND THE STONEWALL AND IS TO REMAIN UNDISTURBED PER ORDER OF THE NEW BEDFORD CONSERVATION COMMISSION SHALL BE PLACED ON THE STONEWALL, FENCING, OR ARBORVITAE.
- STONEWALL, FENCING OR ROW OF ARBORVITAE SHALL BE PLACED AT THE 25-FOOT NO DISTURB ZONE. IF RELOCATED STONEWALLS ARE USED THEY SHOULD BE A MINIMUM 3'-4" TALL.
- ROOF RECHARGE SYSTEMS HAVE BEEN OVER DESIGNED TO WITHSTAND THE 100-YEAR STORM EVENT AND THE TIE-IN OF A SUMP PUMP SYSTEM, IF NECESSARY.
- IF SUMP PUMP IS INSTALLED, A CONCRETE LIP MUST BE INSTALLED AROUND THE SUMP PUMP.



- ZONING DATA -

DISTRICT: RA - RESIDENTIAL A

DESCRIPTION	REQUIRED	PROVIDED
LOT AREA	8,000 S.F.	14,130± S.F.
LOT FRONTAGE	75 FT	79.90 FT
FRONT SETBACK	20 FT	21.0± FT
SIDE SETBACK	10/12 FT	17.1±/22.0± FT
REAR SETBACK	30 FT	58.9± FT
BUILDING HEIGHT (MAXIMUM)	45 FT	30± FT
BUILDING COVERAGE (MAXIMUM)	30 %	9.6± %
LOT COVERAGE (MAXIMUM)	65 %	12.9± %

REVISIONS

1	8/28/19	CONSERVATION COMMISSION
2	10/15/20	CLIENT REQUEST
3	12/8/20	DPI COMMENTS



www.FarlandCorp.com

401 COUNTY STREET
NEW BEDFORD, MA 02740
P.508.717.3479

OFFICES IN:

- TAUNTON
- MARLBOROUGH
- WARWICK, RI

DRAWN BY: JT

DESIGNED BY: JT

CHECKED BY: CAF

SITE PLAN

FARLAND CIRCLE
ASSESSORS MAP 130D LOT 472
NEW BEDFORD, MASSACHUSETTS

PREPARED FOR:
VAZ CONSTRUCTION
51 BRIGHAM STREET
NEW BEDFORD, MA 02740

FEBRUARY 5, 2018

SCALE: 1"=10'

JOB NO. 20-421.09

LATEST REVISION:

DECEMBER 8, 2020

SHEET 1 OF 1