

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 VOLUME= 384 CF, ATTEN= 88%, LAG= 0.0 MIN OUTFLOW = 0.01 CFS @ 11.60 HRS, 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

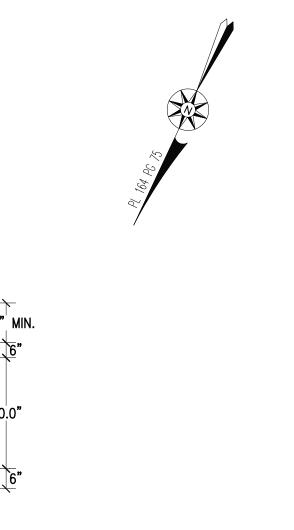
PEAK ELEV= 94.94' @ 12.67 HRS SURF.AREA= 66 SF REQUIRED STORAGE = 117 CF

invert AVAIL.STORAGE STORAGE DESCRIPTION 6.33'W X 10.50'L X 3.54'H PRISMATOID X 1 91.96' 69 CF 236 CF OVERALL - 63 CF EMBEDDED = 172 CF X 40.0% VOIDS

63 CF 47.8"W X 30.0"H X 7.00'L PARABOLIC ARCH X 1 INSIDE #1 94.50' 1 CF 0.33"D X 10.0'H VERTICAL CONE/CYLINDER-IMPERVIOUS

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

12″**→**

4 OZ. NON-WOVEN FILTER FABRIC AROUND STONE. TOP AND SIDES

MANDATORY.

NOT TO SCALE

1-2 INCH WASHED CRUSHED STONE

RECHARGER 330XLHD HEAVY DUTY CHAMBER

> BUILDING EXTERIOR WALL **DOWNSPOUT** CULTEC RECHARGER V8HD FROM ROOF HEAVY DUTY CHAMBERS 1½"-2" DIA. DOUBLE WASHED STONE CLEANOUT/OVERFLOW "Y" BRANCH 4 OZ. NON-WOVEN FILTER
> FABRIC ON TOP AND SIDES ONLY - SPLASH BLOCK -4" SCH. 40 PVC PIPE, 4" PVC PIPE INSPECTION PORT WITH SCREW CAP CLEAN FILL

WETLAND UPLAND LIMIT OF WORK — STAKES — BALE OF HAY-4"-6" DEEP

> STAKED HAY BALES 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

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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"

PER ORDER OF THE NEW BEDFORD CONSERVATION COMMISSION SHALL BE PLACED ON THE STONEWALL, FENCING,

RELOCATED STONEWALLS ARE USED THEY SHOULD BE A MINIMUM 3-4' TALL.

TIE-IN OF A SUMP PUMP SYSTEM, IF NECESSARY.

7. IF SUMP PUMP IS INSTALLED, A CONCRETE LIP MUST BE INSTALLED AROUND THE SUMP PUMP.

DATED MAY 11, 2017 BY CAVANARO CONSULTING. A SIGN STATING PROTECTED CONSERVATION AREA EXISTS BEYOND THE STONEWALL AND IS TO REMAIN UNDISTURBED STONEWALL, FENCING OR ROW OF ARBORVITAE SHALL BE PLACED AT THE 25-FOOT NO DISTURB ZONE. IF ROOF RECHARGE SYSTEMS HAVE BEEN OVER DESIGNED TO WITHSTAND THE 100-YEAR STORM EVENT AND THE

ZONING DATA -<u>DISTRICT:</u> RA – RESIDENTIAL A **DESCRIPTION** <u>REQUIRED</u> <u>PROVIDED</u> 8,000 S.F. LOT AREA 14,130± S.F LOT FRONTAGE 75 FT 79.90 FT FRONT SETBACK 20 FT 21.0± FT 10/12 FT 17.1±/22.0± FT SIDE SETBACK REAR SETBACK 30 FT 58.9± FT BUILDING HEIGHT (MAXIMUM) 30± FT BUILDING COVERAGE (MAXIMUM) 30 % 9.6± % LOT COVERAGE (MAXIMUM) 65 % 12.9± % 25' NO-TOUCH BUFFER ZONE ~PRIVATE/PAPER B. OF S. 25' WIDE~ STREET **ASSESSORS** MAP 130D LOT 472 (AREA=14,130± S.F.) RELOCATED STONEWALL FROM ON-SITE TO SERVE AS PERMANENT CONSERVATION BARRIER (SEE NOTES 4 & 5) PROPOSED STAKED HAYBALES (TYP.) (LOCATION PER CON. COMM. RECOMMENDATION) PROPOSED LIMIT OF CLEARING (TYP.) PRAIN MANHOLE (100' WETLAND PROPOSED SUBSURFACE EXISTING 25' WIDE ROOF RECHARGE UNIT UTILITY EASEMENT (TYPICAL X 2)

MAP 130 *LQT 473* N/F/ ISAIAS DECK *ANDRADE* PROPOSED SINGLE FAMILY DWELLING T.O.F.=101.00 BSMT=93.50 LOT 471 GAR.=99.50 N/FPROPOSED 6" SDR 35
PVC SEWER SERVICE , VITALINA *SILVIERA* INV.=94.5 & ISAIAS *ANDRADE* PROPOSED PORCH BITUMINOUS CONCRETE DRIVEWAY PROPOSED 1" COPPER WATER SERVICE NV =936± (CONTRACTOR L=67.45' 98.5± TO VERIFY) R=145.00' ~L=79.90'~ PROPOSED CONCRETE WALKWAY PROPOSED CONCRETE WALKWAY EXIST, WATER GATE 1.5' OFF EOP 2.0' OFF PL PROPOSED CONC. EXIST. 18" RCP DRIAN MAIN

TRANSITION CURB
BETWEEN LIGHT AND APRON

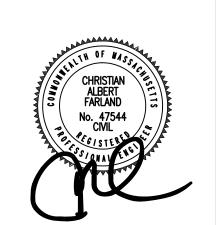
EXIST, 6" SDR 35 SEWER SERVICE

EXIST. 8" SDR 35 SEWER MAIN

EXIST. I" COPPER WATER SERVICE

~PRIVATE _ 50' WIDE~

/28/19 CONSERVATION COMMISSION CLIENT REQUEST DPI COMMENTS





www.FarlandCorp.con

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

130D LOT ASSACHUSE

-- FARLAND ESSORS MAP BEDFORD, M

FEBRUARY 5, 2018 SCALE: 1"=10' JOB NO. 20-421.09 LATEST REVISION: DECEMBER 8, 2020

SHEET 1 OF