



DRYWELL DETAIL
N.T.S.

⊙ INDICATES LOCATION OF SOIL BORING PERFORMED BY R.C. BURDICK, P.E. ON 05/25/2020.

SOIL LOG - GROUND ELEVATION = 30.6
 0-4" DARK GRAYISH BROWN LOAMY SANDY TOPSOIL, 10 YR 4/2
 4-8" DARK YELLOWISH BROWN LOAMY SAND, 10 YR 4/4
 8-22" BROWNISH YELLOW SAND, 10 YR 6/6
 22-33" VERY DARK GRAY CLAY, 10 YR 3/1
 33-48" LIGHT BROWNISH GRAY LOAMY SAND, DAMP, 10 YR 6/2
 48-52" LIGHT BROWNISH GRAY LOAMY SAND, MOTTLES, 10 YR 6/2
 52-72" LIGHT BROWNISH GRAY LOAMY SAND, WET, 10 YR 6/2

EVIDENCE OF SEASONAL HIGH WATER TABLE OBSERVED AT A DEPTH OF 48 INCHES (ELEV. 26.6)
 TESTED PERMEABILITY RATE OF 3.6 INCHES PER HOUR FROM SAMPLE TAKEN AT A DEPTH OF 40 INCHES.

DRYWELL HAS BEEN DESIGNED TO PROVIDE STORAGE VOLUME EQUIVALENT TO THE RUNOFF ANTICIPATED FROM THE 1 YEAR, 24 HOUR STORM EVENT (2.9 INCH RAINFALL) OVER THE POOLHOUSE ROOF AND POOL PATIO.
 POOLHOUSE ROOF AREA - 335 S.F.
 POOL PATIO AREA - 420 S.F.
 TOTAL CONTRIBUTING AREA - 755 S.F.
 REQUIRED STORAGE VOLUME - 755 S.F. * 0.241 FT. = 182.5 C.F.
 PROPOSED STORAGE VOLUME - 41.0 C.F. + 147.3 C.F. = 188.3 C.F.
 PIPE VOLUME - 6 * 20 L.F. * 0.342 CF/L.F. = 41.0 C.F.
 STONE VOLUME - 12.0 FT. X 22.0 FT * 1.75 FT. = 462 C.F. - 41.0 C.F. = 421 C.F.
 STONE VOID VOLUME - 421 C.F. * 0.35 = 147.3 C.F.
 WHEN APPLYING AN INFILTRATION RATE OF 1.8 INCHES/HOUR, DRYWELL IS ABLE TO MANAGE RUNOFF FROM THE 10 YEAR, 24 HOUR STORM EVENT (5.2 INCH RAINFALL) OVER THE POOLHOUSE ROOF AND POOL PATIO.

- NOTES:
 1. PLAN BASED ON SURVEY PREPARED BY THIS OFFICE, LAST UPDATED 02-03-2021.
 2. THIS PLAN SHALL BE USED FOR GRADING AND DRAINAGE PURPOSES ONLY.
 3. REFER TO ARCHITECTURAL PLANS PREPARED BY PASSMAN ERCOLINO ARCHITECTS, DATED 04/21/21 FOR SPECIFIC SITE IMPROVEMENTS PROPOSED AS WELL AS ZONING ANALYSIS.

04-21-21 REVISED PER ARCHITECT, ADDED PROPOSED DRAINAGE

GRADING/DRAINAGE PLAN			
102 DEAL ESPLANADE LOT 2 BLOCK 51			
BOROUGH OF DEAL		MONMOUTH COUNTY	
		NEW JERSEY	
Charles Surmonte P.E. & P.L.S. New Jersey Professional Engineer and Land Surveyor License No. 35885		301 Main Street, 2nd Floor Allenhurst, New Jersey, 07711 Phone 732-660-0606 Fax 732-660-0404	
PROJECT No.	DATE	SCALE:	SHEET:
18-1138	02-06-21	1"=20'	1 OF 1