



TEST HOLE DEPTH SHOW DE DROCK HOLE DEPTH USDA TEXTURE TTP-4 72" 35" >72" 22" 22" 22" 23"	* 1		The second secon		
HOLE DEPTH SHOW BETROICK HOLZ DEPTH USDA TEXTURE CANON CANON	שוני	J)	6	11	SP-7A
HOLE DEPTH SHOW BEDROICK HOLZ DEPTH USDA TEXTURE CANON CANON	DATE	RATE		30	TEST HOLE
HOLE DEPTH SHOW BEDROCK HOLZ DEPTH SISTA TEXTURE PERCENTAGE LANGE STATE NAME PERCENTAGE LANGE PERCENTAGE PE		RATES	i .	PER	
HOLE DEPTH SHGV BEDROCK HOIZ, DEPTH USDA TEXTURE Q-12" STOPH Q-12" G-12" G-12"			23-34 34-58		
DEPTH SHGV BEDROCK HUIZ DEPTH USDA TEXTURE			HOIZ.		DEPTH 58"
DEPTH		Į}	HOLE	7,	
DEPTH SHGV BEDROCK HOIZ, DEPTH STA TEXTURE	*	18	6	<u> </u>	SP-6B
DEPTH SHGV BEDROCK HOIZ DEPTH USDA TEXTURE	*	20	6	1	SP-6A
DEPTH SHOW BEDROCK HOIZ DEPTH USDA TEXTURE FUBEST LITTER, HANGS/ROOTS 12-28° SALTY LOAMS 12-28°	DATE	RATE		30	TEST HOLE
DEPTH SHGV BEDROCK HOIZ DEPTH USDA TEXTURE FUREST LITTER, HAMUS/ROOTS 12-28" SHLTY LOAMS SHLTY		RATES		PER	
HILE DEPTH SHGV BEDROCK HUIZ DEPTH USDA TEXTURE 2-28 SILTY LIAMS 12-28 SILTY LIAMS SIL					1
HOLE DEPTH SHOW BEDROCK HOLZ DEPTH USDA TEXTURE		SANDY LOAM WITH COBBLES	7-19"	-	34,
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE			HOIZ.	3 3	HOLE DEPTH
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE		1	든	6	
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE	*	5	6		SP-5B
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE	*	5	6	1	1 (
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE	DATE	RATE		DE	
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE		RATES		PER	
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE					
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE			HOIZ	11	66"
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE		11	EEP HOLE	ົດ	
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE	*	4	16		SP-4B
HOLE DEPTH SHGV BEDRUCK HUIZ DEPTH USDA TEXTURE -4 72" 35" >72" 0-12" FOREST LITTER, HAMIS/RIDITS 12-28" SILTY LIAMS -4 72" 35" >72" 12-28" SILTY LIAMS -4 72" 35" >72" 12-28" SILTY LIAMS -4 9" SILTY	*	4	91		
HOLE DEPTH SHOV BEDROCK HOIZ DEPTH 0-12* -4 72* 35" >72" 0-12* 12-28* 28-40* 40-48* PERCOLATION TES	DATE	RATE		DE	TEST HOLE
HOLE DEPTH SHGV BEDROCK HOLZ DEPTH -4 72" 35" >72"				PER	
HOLE DEPTH SHGV BEDROCK HOLZ DEPTH -4 72" 35" >72" 0-12"			40-48	3	
HOLE DEPTH SHGV BEDROCK HOIZ. DEPTH USDA					4
		USDA	ZIOH		DEPTH

* DEEP HOLE TEST PITS PERFORMED JULY 6, 2022 BY THE APA AND MARK J. BUCKLEY, P.E. PERCOLATION TESTS PERFORMED ON JULY 6, 2022 AND JULY 13, 2022 BY MARK J. BUCKLEY, P.E.

ω	16	SP-10B
4	16	SP-10A
PERC. RATE (MINS/IN)	DEPTH	TEST HOLE
FINE SAND	24-60	NO MOTTLING
	×64° 0-5° 5-15°	TP109 64" >48"
\vdash	BEDROCK HOIZ.	TEST HOLE DEPTH SHOV
INVESTIGATION *	בסד 10, מכבף אסנב	
ω	16	SP-9B
4	16	SP-9A
PERC. RATE (MINS/IN)	DEPTH	TEST HOLE
TEST RATES *	PERCOLATION TO	
		NO MOTTLING
GRAVELLY SAND	11-48	
	>72'	9 72"
1 USDA TEXTURE	/ BEDROCK HOIZ, DEPTH	TEST HOLE DEPTH SHOW
INVESTIGATION *	LOT 9, DEEP HOLE	
13	16	SP-8B
3	16	SP-8A
PERC. RATE (MINS/IN)	DEPTH	TEST HOLE
TEST RATES *	PERCULATION T	
		MOTTLING AT 29"
BOULDERS, FINE SAND	23-54	
SAND LDAN	>54"	TP 8 54" 29"
T COM IEXIONE	BEDRUCK HULL	TEST HOLE DEPTH SHGV

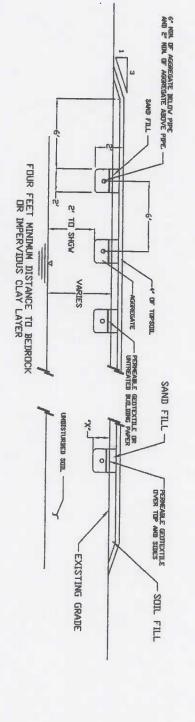


BALLEN SUBDIVISION SEPTIC SYSTEM CROWNINGSHIELD ROAD PARCEL #35,4-2-4,000

WILLMINGTON, NEW YORK
SOIL DATA

4	SCALE: NONE	DATE: 8-20-22	DESIGN DATA
WILLYBURL, NY			WILLMINGTON, NEW YORK
P.U. BUX 401			PARCEL #35,4-2-4,000
בואל טי פטכערם			CREWNING WHIFTE READ
MADE I BIICHIEV	# 2022-0133	APA PROJ. # 2022-0133	BALLEN SUBDIVISION SEPTIC SYSTEM

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24*	S.	10*	0.	6"	110	DIMENSION "X"
9, 10	æ	7	6	S	4	LOT NUMBER

RAISED OR MOUND SYSTEM	DRY WELL (RIDDF AND FOOTING)	SEEPAGE PIT	ABSURPTION FIELD	DISTRIBUTION BOX	DISTRIBUTION BOX	SEPTIC TANK	HOUSE SEVER	SYSTEM COMPONENT	70.
100	50	150	100	100	50	50	50	VELL DR	REQIRED SEPA
100	25	100	100	100	50	50	25	TO STREAM, LAKE DWELLING WATERCOURSE OR WETLAND	SEPARATION DISTA
20	20	20	20	20	10	10	ω	DVELLING	DISTANCES FROM W
10	10	10	10	10	10	10	10	PROPERTY	FROM WASTEWATER
20	10	20	20	20	10	10	-	DITCH	70

NOTES:

1. THE WASTEWATER TREATMENT SYSTEM IS DESIGNED AND APPROVED BASED ON THE INSTALLATION OF WATER CONSERVATION FIXTURES AND A DESIGN FLOW OF 110 GALLONS PER BEDROOM PER DAY. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE EXTREME WATER USE FIXTURES SUCH AS JACUZZI-TYPE SPA TUBS OF WATER TREATMENT EQUIPMENT. THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS UNLESS THE SEPTIC TANK IS SPA TUBS OF ASSOCIATIONS (SEE ABOVE). THE INSTALLATION OF NON-CONSERVING WATER FIXTURES OR EXTREME WATER USE FIXTURES IS CONTRARY ENLARGED BY 250 GALLONS (SEE ABOVE). THE INSTALLATION OF NON-CONSERVING WATER FIXTURES OR EXTREME WATER USE FIXTURES IS CONTRARY TO THE APPROVAL OF THIS WASTEWATER TREATMENT SYSTEM.

2. NO INDIVIDUAL DISTRIBUTION LATERAL SHALL EXCEED 60 FEET IN LENGTH,

3. ALL HOMES SHALL USE WATER SAVING FIXTURES (POST 1999). WATER CLOSETS TO BE 1.6 9pf max. AND FAUCETS/SHOWERHEADS TO BE 3.0 9pm max.

,4 ,5

7, 9, 10

1,20

SEPTIC TANK SIZE W/GARBAGE GRINDER

1,000

1,000

1,250

1,500

1,750

SEPTIC TANK SIZE (GAL) 0.70

16 - 20

158 FT.

315 FT. 275 FT.

393 FT. 344 FT.

184 FT.

230 FT.

275 FT.

1 - 5

92 FT.

LOT NUMBERS

APPLICATION RATE

PERC. RATE

MIN./INCH

220 (2 BDRM)

330 (3 BDRM)

440 (4 BDRM)

550 (5 BDRM)

660 (6 BDRM)

472 FT. 413 FT. FLOW

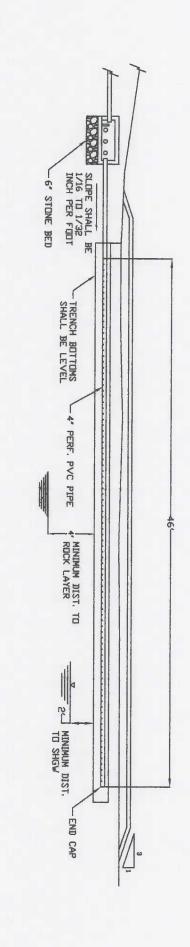
RATE (GALS./DAY)

236 FT. 207 FT. 138 FT. REQUIRED LENGTH OF ABSORPTION TRENCH

GAL/DAY/SF

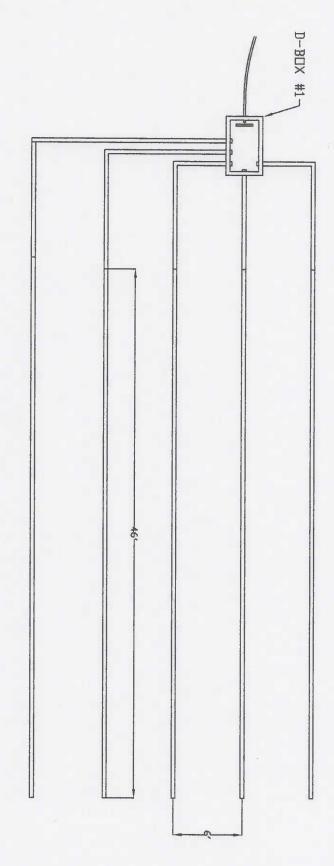
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D-BOX X-SECTION (TYP.)

ABSORPTION FIELD X-SECTION (TYP.)



ABSORPTION FIELD PLAN VIEW

(TYPICAL FOR A 5 BEDROOM HOME ON LOTS 4, 5, 7 AND 10)

BALLEN SUBDIVISION SEPTIC SYSTEM CROWNINGSHIELD ROAD PARCEL #35.4-2-4.000

APA PROJ. # 2022-0133

MARK J. BUCKLEY P.O. BOX 401 WILLSBORO, NY

WILLMINGTON, NEW YORK D-BOX AND ABSORPTION FIELD

DATE: 8-20-22

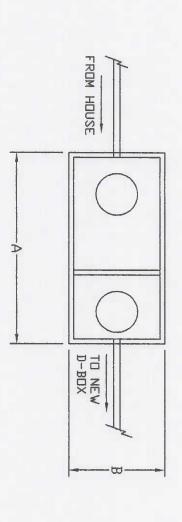
SCALE: NONE

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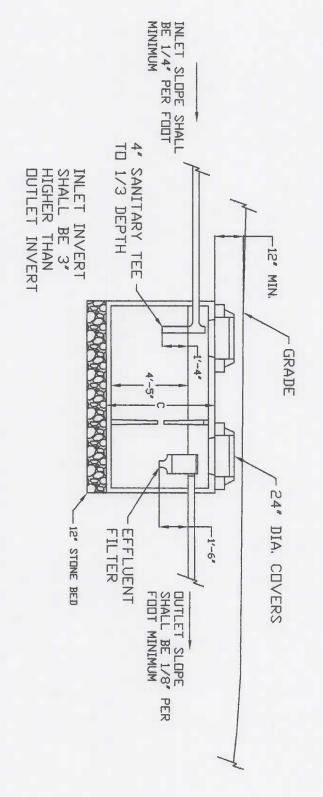


TUD	DUTSIDE DIMENSIONS	IMENSI	SND	MIN. LIQUID
	A	В	0	SURFACE AREA
1,000	8'-0"	5'-2"	5'-8"	27 SF
1,250	10'-0"	5'-0"	5′-8″	34 SF
1,500	10'-6"	5'-8"	5'-8"	40 SF
1,750	12'-10" 6'-8"	6'-8"	5'-0"	47 SF
2,000	12'-0"	12'-0" 6'-6" 5'-10"	5'-10"	54 SF

TYPICAL SEPTIC TANKS DIMENSIONS



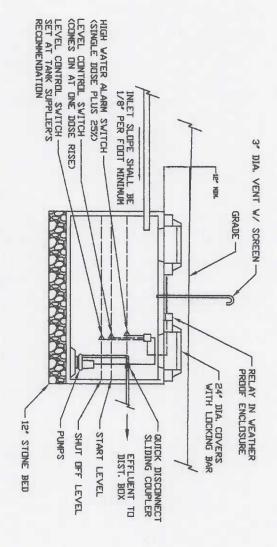
,000 GALLON SEPTIC TANK



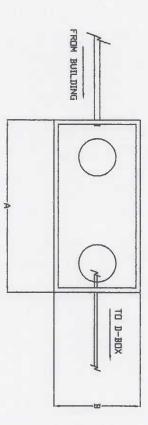
NEW 1,000 GALLON SEPTIC TANK
DOUBLE COMPARTMENT - FRONT COMPARTMENT SHALL
CONTAIN 60% TO 70% OF TOTAL VOLUME, BACK COMPARTMENT
SHALL CONTAIN 30% TO 40% OR TOTAL VOLUME

(6294)

BALLEN SUBDIVISION SEPTIC SYSTEM CROWNINGSHIELD ROAD WILLMINGTON, NEW YORK PARCEL #35,4-2-4,000 X-SECTIONS DATE: 8-20-22 APA PRIJ. # 2022-0133 SCALE: NONE MARK J. BUCKLEY P.D. BOX 401 WILLSBORO, NY



1,000 GALLON PUMP STATION



1,000 GALLON PUMP STATION

BALLEN SUBDIVISION SEPTIC SYSTEM WILLMINGTON, NEW YORK PARCEL #35,4-2-4,000 CROWNINGSHIELD ROAD X-SECTIONS DATE: 8-20-22 APA PROJ. # 2022-0133 SCALE: NONE MARK J. BUCKLEY WILLSBORD, NY P.O. BOX 401

PUMP STATION:

- field. One or two pumps shall be provided in the pump station. Should two pumps be used, each pump will alternately send effluent to a designated absorption
- Sin Pumps shall be model Myers SRM4 or approved equal.
- the absorption field per dose. Pumps shall dispense between 70% and 80% of the perforated pipe volume of
- All electrical components shall meet NEMA 4 specifications or greater

4 2

- two pumps. Pump station shall be large enough to store 750 gallons of leachate and house
- Precast concrete shall be treated with bituminous coating.
- 7.6 groundwater. Pump chamber shall be at least 10% heavier than buoyancy of maximum high
- 000 Reserve capacity after alarm sounds shall be 250 gallons.
- pump chamber to permit the force main to drain between doses. A 1/8 inch diameter weep hole shall be installed on the force main in the
- 10. and the NYS requirements. An alarm system shall be installed to the manufactures's recommendations
- All tanks shall be vented for positive air/gas displacement.



SPECIFICATIONS:

- materials. The contractor shall verify all measurements in the field prior to ordering
- 2. the owner with a set of as-built drawings after the completion of the work. pump station, distribution box and absorption field. The contractor shall provide The contractor shall verify and note elevations and distances of septic tank
- S otherwise noted. Slope on all non-perferated gravity pipe to be a minimum of 1/8" per L.F. unless
- 4 Systems, dated March 5, 2014. the NYSDOH Design Standards for Intermediate Sized Wastewater Treatment conform to The New York Department of Health Appendix 75-A standards and All tanks and boxes to be concrete (4000 psi). Size and specifications to
- S All tanks and boxes shall be water tight and have a minimum of 12 inches of
- All solid pipe shall be schedule 40 PVC unless otherwise noted
- ∞ .7 .o All perforated pipe shall be SDR 35 PVC or equivalent unless otherwise noted.
- box to ensure equal flow to each distribution line. Outlet leveling devices shall be installed on each of the outlets of the distribution
- 9. they are water tight. Any visible damage shall be repaired prior to backfilling. recommendations. After the tanks are installed they shall be inspected to ensure Backfill and bedding of all tanks shall strictly follow manufacturer's written
- 10. All backfill and bedding shall be installed with minimum 6 inch lifts. No rocks greater than 2 inches in diameter will be used for backfill.
- 11. trenches. Aggregate size shall be between 3/4" and 1-1/2". Washed stone or crushed gravel shall be used as aggregate in the absorption
- 12. Absorption trenches shall be constructed parallel to ground contours and the trench bottoms shall be essentially level.
- 13. Absorption fields shall not be built under driveways, parts of buildings, under any other structure or areas subject to heavy loading. Surface waters shall be diverted from the vicinity of the system.
- 14. Conventional absorption trench systems shall not be placed in areas where the slope exceeds 15 percent. Conventional shallow trench systems shall not be placed in areas where the slope exceeds 8 percent.

BALLEN SUBDIVISION SEPTIC SYSTEM

APA PROJ. # 2022-0133

MARK J. BUCKLEY

WILLSBORD, NY P.O. BOX 401

CROWNINGSHIELD ROAD PARCEL #35.4-2-4.000

WILLMINGTON, NEW YORK

SPECIFICATIONS

DATE: 8-20-22

SCALE: NONE

- 15. materials resistant to corrosion, frost damage, deformation (cracking or All tanks and components of the tank system shall be constructed of durable buckling) due to settlement or soil pressures.
- 16. The contractor shall supply the owner with a set of as-built drawings.
- 17. commencement of any excavation Work. The contractor (or installer shall contact "DIG-SAFELY" at "8-1-1" ten days prior the

SEPTIC TANKS:

- 20. Compartments shall be connected by a 4-inch slot at least 18" in width, a 6-inch elbow, two 4-inch elbows or four 4-inch diameter holes located 2/3 the total liquid depth from the bottom of the septic tank.
- The septic tanks shall have a minimum liquid area as indicated on the table.
- 22. Septic tank baffles shall have one inch clear on top.
- 23. A Zable Model A1800 Septic Tank Filter or equivalent shall be used
- grinders (unless the septic tank is enlarged by 250 gallons). The installation of contrary to the approval of this wastewater treatment system. garbage grinders, non-conserving water fixtures or extreme water use fixtures is treatment equipment. The system is not designed to accommodate garbage accommodate extreme water use fixtures, installation of water conserving fixtures. The wastewater treatment system is designed and approved based on the such as Jacuzzi-type spa tubs or water The septic tank is not designed to
- 25. All tanks shall be vented for positive air/gas displacement.

