

Q:\Warren (1217)\Landy, John and Yasmin - 4 Corners\CAD\LANDY SITE PLAN.dwg 12/15/2023 12:03 PM

	MOUND SYSTEM SPECIFICATIONS
	1. <u>SEPTIC TANKS</u> : ALL TANKS SHALL BE OF WATER TIGHT CONSTRUCTION AND MADE OF REINFORCED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. ALL TANKS SHALL BE REINFORCED USING WIRE MESH OR REINFORCING STEEL AS NECESSARY TO ENSURE STRUCTURAL INTEGRITY. ALL SHIPLAP JOINTS SHALL BE SEALED WITH ASPHALT CEMENT OR EQUIVALENT. THE SEPTIC TANKS SHALL BE AS BUILT BY CAMP PRECAST OF MILTON, OR S.T. GRISWOLD OF WILLISTON, OR APPROVED EQUAL. INCOMING AND EXITING PIPE HOLES SHALL BE SEALED.
D FOR AREAS LOW GROUND WATER LOW GROUND WATER State of the strength source of the state of the s	2. <u>LEACHFIELD:</u> DISTRIBUTION PIPING FOR LEACHFIELD SHALL BE 2" DIAMETER PERFORATED SCHEDULE 40 PVC PIPE LAID LEVEL. A LAYER OF FILTER FABRIC SHALL BE PLACED OVER THE CRUSHED STONE BEFORE PLACEMENT OF ANY FILL. THE TRENCHES OR BED SHALL BE DUG TO THE PROPER GRADE SHOWN ON THE PLANS USING A BACKHOE. THE BOTTOM AND SIDE WALLS SHALL BE RAKED TO ENSURE ELIMINATION OF ANY BUCKET SMEARS. USING THE BUCKET ON THE BACKHOE OR FRONT END LOADER, DUMP THE STONE IN THE TRENCHES OR BED TO AN ELEVATION APPROXIMATELY 4" ABOVE THE FLOWLINE OF THE DISTRIBUTION PIPES. AT THE LOCATION ON THE DISTRIBUTION PIPE, MAKE CHANNELS ABOUT 4" DEEP BY USING A SHOVEL. LAY THE DISTRIBUTION PIPE IN THE TROUGH TAKING CARE TO LEVEL IT WITH HOLES UPWARD. REMOVE DIPS AND RISES WHICH OCCUR IN THE PIPE. FINISH PLACING THE CRUSHED STONE 2" DEEP OVER THE DISTRIBUTION PIPES AFTER THE DISTRIBUTION SYSTEM HAS BEEN INSPECTED BY THE ENGINEER. PLACE 12" OF SOIL OVER THE TRENCHES OR BED FOLLOWED BY AT LEAST 3" OF TOPSOIL OVER THE ENTIRE FIELD AREA. SHAPE THE MOUND SO THAT THERE WILL BE NO
TO OUTLET LEVEL PERFORMANCE ORENCO EFFLUENT FILTERS AVAILABLE TITER ALARM AVAILABLE JBJECT TO VARIATION SAST CONCRETE PRODUCTS OR APPROVED EQUAL	STANDING SURFACE WATER. 3. <u>FINAL GRADING:</u> ALL DISTURBED AREA AROUND THE LEACHFIELD SHALL BE FINE GRADED TO ENSURE CONTOURS. THIS AREA SHALL THEN BE SEEDED WITH A GRASS MIXTURE AND A LIGHT COVERING OF MULCH PLACED TO ENSURE GERMINATION OF SEEDS.
	4. IT SHALL BE THE LOT OWNERS RESPONSIBILITY TO CONFORM TO THE REQUIREMENTS OF THE STATE PERMIT AND INSURE THAT THE PROJECT IS BUILT IN CONFORMANCE TO THE PLANS AND SPECIFICATIONS. A LICENSED SURVEYOR OR ENGINEER SHALL STAKEOUT THE SEPTIC SYSTEM AT THE LOCATION AND ELEVATION SHOWN ON THE PLAN VIEW PRIOR TO CONSTRUCTION. THE ENGINEER SHALL RECEIVE 24 HOURS NOTICE PRIOR TO CONSTRUCTION OF KEY ELEMENTS OF THIS SEPTIC SYSTEM. THE LOT OWNER SHALL BE RESPONSIBLE FOR ARRANGING INSPECTION SERVICES WITH THE ENGINEER, TO SUPPLY AS BUILT CERTIFICATION AS REQUIRED BY THE STATE PERMIT.
	 5. BASIS OF DESIGN SEPTIC SYSTEM: BUILDING #2 A. DESIGN FLOW = 700 GPD (5 BEDROOM HOUSE WITH 1 BEDROOM APARTMENT). B. SOILS: SANDY LOAM & FINE SANDY LOAM C. SEWAGE APPLICATION RATE = 1.0 GAL/SF/DAY D. LEACH AREA REQUIRED = 700 SF E. LEACH AREA PROVIDED = 700 SF (10' x 70' MOUND BED) F. SEPTIC TANK SIZE = 1500 GALLON CONCRETE G. WASTEWATER PUMPING STATION = 1500 GALLON REQUIRED
	 6. WATER SYSTEM BASIS OF DESIGN: BUILDING #2 A. DESIGN FLOW = <u>700</u> GPD (5 BEDROOM HOUSE WITH 1 BEDROOM APARTMENT) B. DESIGN RATE = <u>0.97</u> GPM C. IPD = <u>10</u> GPM * A WELL PUMP CAPABLE OF DELIVERING 10 GPM WILL BE UTILIZED
ILTER	PUMP STATION NOTES for MOUND SYSTEM
NTS	THE PUMP STATION WET WELL SHALL BE A 1000 GALLON CONCRETE SEPTIC TANK AS BUILT BY CAMP PRECAST, OR OTHERS. ALL JOINTS AND HOLES SHALL BE SEALED TO PREVENT ANY POSSIBLE GROUNDWATER INFILTRATION. THE CLEANOUT COVER SHALL BE 24" IN DIAMETER RATHER THAN THE STANDARD 18". THE SERVICE HATCH SHALL BE 36" DIAMETER WELL TILE, 2' HIGH WITH CONCRETE COVER. THE JOINT BETWEEN THE ROOF OF THE TANK AND THE TILE SHALL BE SEALED WITH MORTAR. INCOMING AND OUTGOING LINES SHALL ALSO BE MADE WATERPROOF.
C PIPE	2. MECHANICAL SPECIFICATIONS FOR PUMP STATION: A: PUMPS: BASED UPON THE EXACT LOCATION OF THE SEPTIC SYSTEM AND AN APPROXIMATE LOCATION OF THE HOUSE SHOWN ON THE SITE PLAN A PUMP WAS SELECTED. THE PUMP DESIGN WAS BASED UPON A PUMPING RATE OF <u>60</u> GPM AGAINST A TOTAL DYNAMIC HEAD OF <u>45</u> FEET. THE PUMP SELECTED IS: <u>HYDROMATIC SHEF 50, 1 HP, 115 V</u>
(3" WALL) . RISER	B: LIQUID LEVEL CONTROLS: THREE MODEL 475, LIQUID LEVEL CONTROL SWITCHES WITH MOLYBDENUM CONTACTS OR EQUIVALENT SHALL BE USED. THE FOUR CHORDS (8' LONG) SHALL BE SPLICED AT A WATERPROOF JUNCTION BOX LOCATED INSIDE THE WELL TILE, OR THREE FLCA WATER ALARM CONTROLS WITH SWITCHES IN SOLID POLYURETHANE FLOAT BALL. THE LEVEL CONTROL AND WATER TIGHT CONNECTION BOX IS AWS-1. THE CONTROLS SHALL BE MOUNTED ON A REMOVABLE ANGLE IRON BRACKET AS DETAILED. C. HIGH WATER ALARM AND CONTROL PANEL: MEYERS CA-SSA CONNECTION AND ALARM BOX. THE ALARM AND CONTROL PANEL SHALL BE LOCATED AT THE DISCRETION OF THE OWNER.
PLACE	3. THE ENGINEER SHALL BE NOTIFIED WHEN THE PUMP STATION IS BEING INSTALLED FOR INSPECTION. THE CONTRACTOR SHALL BE PREPARED TO TEST RUN THE PUMP STATION BY PUMPING CLEAN WATER THROUGH THE MOUND DISTRIBUTION SYSTEM.
ENT WITH NTROL ORENCO QUIVALENT	4. THE 2" FORCEMAIN SHALL BE PRESSURE TESTED AT 50 PSI FOR 2 HOURS WITH NO LOSS IN PRESSURE ACCORDING TO STATE REGULATIONS.
COVER DIA. (3" WALL) CONCRETE RISER HIGH CAST—IN—PLACE	SEPTIC FIELD/COMPONENT MAINTENANCE NOTES 1. NO TREES OR SHRUBS LOCATED/PLANTED WITHIN 10 FEET OF THE SYSTEM PERIMETER TO PREVENT ROOTS FROM GROWING INTO AND DAMAGING SYSTEM, 2. DO NOT DRIVE, PAVE OR PARK OVER SEPTIC FIELD OR COMPONENTS. DOING SO CAN RESULT IN
1 0 5	 DAMAGE OR FAILURE. 3. REGULARLY VISUALLY INSPECT YOUR SEPTIC SYSTEM FOR WET AREAS. 4. PUMP YOUR SEPTIC TANK EVERY 3-5 YEARS UNDER NORMAL USAGE. 5. CLEAN EFFLUENT FILTER ANNUALLY. 6. SOIL BASED SYSTEMS ARE DESIGNED FOR DOMESTIC WASTE ONLY, NOT FOR HAZARDOUS WASTE, OILS & GREASE, OR FOOD PRODUCTION.
DE 6" OF 3/4" CRUSHED FOR BASE OF TANK	
S: MINIMUM STRENGTH 5000 PSI © 28 DAYS IFORCEMENT GRADE 60 A-SEAL BOOTED CONNECTIONS CONSTRUCTION UBJECT TO VARIATION	
<u>DN</u> v7s	
	ROAD OR PARKING CROSS COUNTRY AREA
VALVE ENCLOSURE 5" PVC, 18" LONG	TOP ITEM AS SPECIFIED ELSEWHERE
5" CAP FINISH GRADE	COMMON FILL COMMON FILL NO COMPACTED IN 18" UNLESS SPECIFIED BY
- BALL VALVE	LIFTS, NO STONES VORR 1 1/2" DIA. Control Control Co
WEEP ELL WITH (1) 5/16"	TYPICAL 3/4" STONE BEDDING

MOUND SYSTEM SPECIFICATIONS

TO 6" BELOW BOTTOM OF PIPE AND TO 6" ABOVE THE PIPE

TYPICAL 2" SDR 26 PVC FORCEMAIN TRENCH DETAIL

OVERALL SITE PLAN & SEPTIC SYSTEM DETAILS

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WARREN Date: Scale: Designed: Drawn: Checked: grenierengineering.com

10.21.19 1" = 60' CMA TJM JDG 2 of 2 Sheet No: