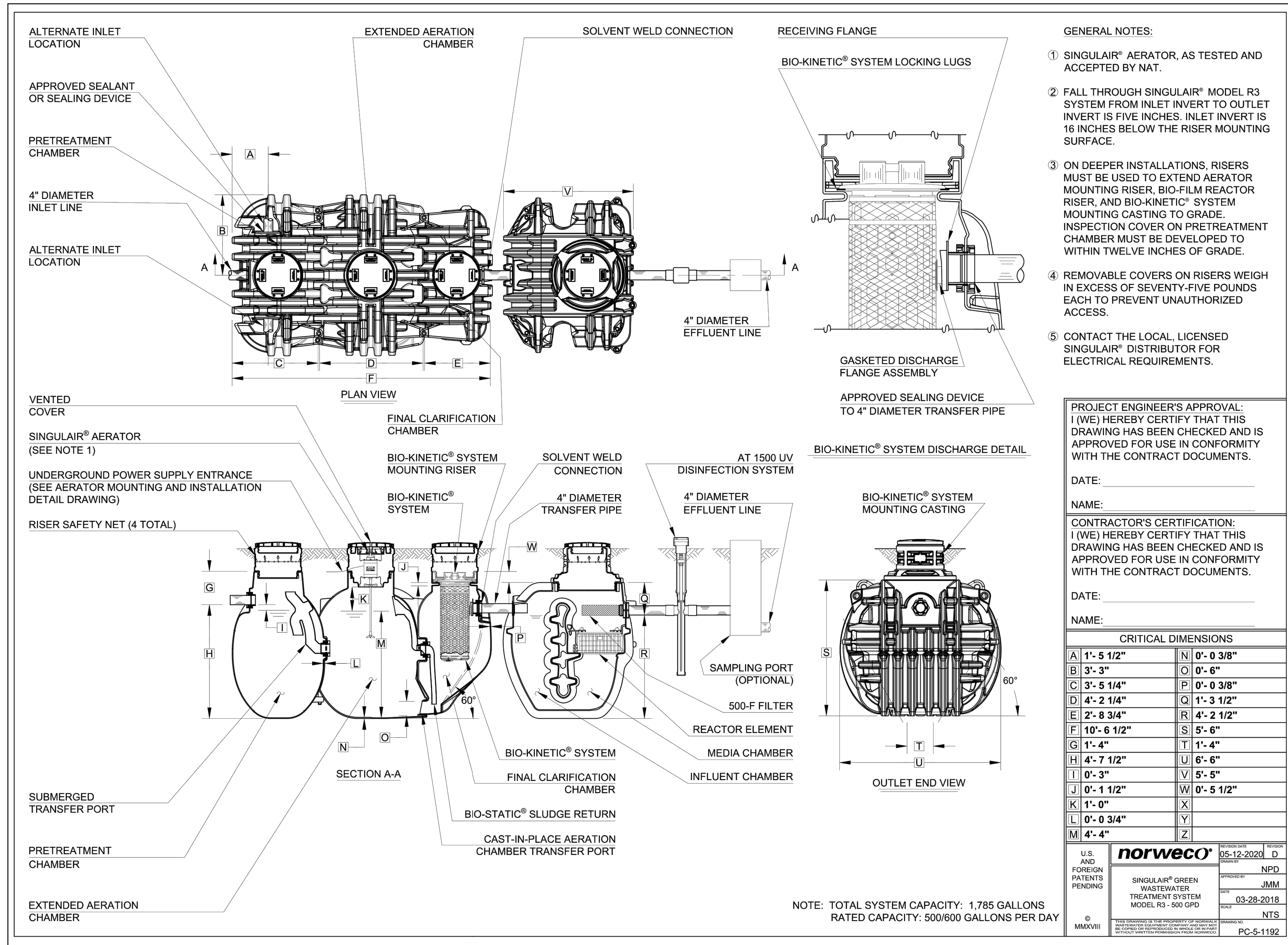


PLUMBING LOCATION PLAN

SCALE: 1/64"=1'-0"



SEPTIC TANK CALCULATION

NUMBER OF SYSTEMS	2
TOTAL LIVING AREA	8,936 SF
TOTAL OF BEDROOMS	8
	8,936 / 750 = 3300 4 bedrooms (400 GPD)
	8 add 480 GPD
FLOW ALLOWANCE	880 GPD
TOTAL LOT AREA	0.9246 ACRES
TOTAL FLOW PER DAY PER ACRE ALLOW	2312 GPD

FIXTURE COUNT CALCULATION

SYSTEM #1	FU	#	TOTAL
FULL BATHROOM	6	4	24
MASTER BATHROOM	12	1	12
BAR SINK	2	1	2
UTILITY SINK	2	1	2
TOTAL FIXTURES			40
SYSTEM #2	FU	#	TOTAL
POWDER	4	1	4
FULL BATHROOM	6	3	18
KITCHEN SINK W/DISHWASHER	2	1	2
WASHER	2	2	4
LAUNDRY SINK	2	1	2
DISWASHER	2	1	2
BBQ SINK+ HUB FOR IM	4	1	4
TOTAL FIXTURES			36
TOTAL HOUSE FU	76		

FLOW CALCULATION

SYSTEM	1	2
SYSTEM FLOW =	#FU X TOTAL FLOW	#FU X TOTAL FLOW
TOTAL FU		
	= 40 X 880	
	= 463 GPD	
UNOBSTRUCTED AREA		
SYSTEM	2	
SYSTEM FLOW =	36 X TOTAL FLOW	
TOTAL FU		
	= 36 X 880	
	= 417 GPD	
UNOBSTRUCTED AREA		

PBTS OPERATION, MAINTENANCE, & INSPECTION SPECIFICATIONS

OPERATION:

- TOTAL HOLDING CAPACITY OF THE SYSTEM SHALL PROVIDE A MINIMUM OF 60 HOUR RETENTION OF THE DAILY FLOW. THE PRETREATMENT CHAMBER SHALL PROVIDE AT LEAST 18 HOUR RETENTION, THE EXTENDED AERATION CHAMBER SHALL PROVIDE AT LEAST 24 HOUR RETENTION, THE CLARIFICATION CHAMBER SHALL PROVIDE AT LEAST 6 HOUR RETENTION AND THE HYDRO-KINETIC BIO-FILM REACTOR SHALL PROVIDE AT LEAST 12 HOUR RETENTION.
- THE NON-MECHANICAL FLOW EQUALIZATION DEVICE SHALL INCREASE RETENTION TIME IN DIRECT PROPORTION TO LOADING.
- DESIGN OF THE SYSTEM SHALL INSURE SUCCESSFUL TREATMENT PERFORMANCE WITHOUT UPSET EVEN WHEN THE SIGNIFICANT RUNOFF PERIOD IS SIX HOURS.

- HYDRAULIC DESIGN CONSIDERATIONS SHALL BE SUCH THAT INTERMITTENT PEAK FLOW FACTORS AS HIGH AS FOUR SHALL NOT UPSET HYDRAULIC RELIABILITY WITHIN THE SYSTEM.

- ALL ACCESS OPENINGS SHALL HAVE THE ABILITY TO BE EQUIPPED WITH A SAFETY DEVICE TO PREVENT ACCIDENTAL ENTRY.

- POWER SUPPLY TO ALL ELECTRIC COMPONENTS MUST REMAIN CONSTANT AT ALL TIMES. IT IS NOT ACCEPTABLE TO DISCONNECT POWER FROM THE SYSTEM AT ANY TIME EXCEPT UNDER THE DIRECTION OF THE MAINTENANCE ENTITY OR IN CASE OF EMERGENCY.

- HOMEOWNER IS NOT TO POWER OFF ELECTRICAL COMPONENTS DURING EXTENDED ABSENCES FROM HOME, VACATIONS, OR OTHERWISE. LIQUID WASTE TREATMENT ADDITIVES SHALL NOT BE USED. IF A PERIOD OF INTERMITTENT USE OR AN EXTENDED PERIOD OF NON-USE OF THE SYSTEM IS ANTICIPATED, MAINTENANCE ENTITY SHALL BE CONTACTED FOR FURTHER INSTRUCTIONS & COORDINATION.

MAINTENANCE & INSPECTION 2/YEAR CONTRACT:

- INSPECTIONS: EFFLUENT MONITORING AND PREVENTATIVE MAINTENANCE SHALL BE PERFORMED AS REQUIRED BY 62.6 PART 1, FAC.

- FIRST INSPECTION: AT SYSTEM INSTALLATION BY ENGINEER AND CERTIFIED SEPTIC ENGINEER/CONTRACTOR.

- SECOND INSPECTION: AFTER SYSTEM HAS BEEN INSTALLED IN OPERATION A TOTAL OF 6 MONTHS BY MAINTENANCE ENTITY

- THEREAFTER: EVERY SIX MONTHS, AS PART OF MAINTENANCE ENTITY INSPECTION. MAINTENANCE ENTITY INSPECTION TO INCLUDE:

- *SOLIDS: CHECK ACCUMULATION (EXPECT PUMP-OUT EVERY 3 TO 5 YEARS)

- *AERATOR: CONFIRM PROPER OPERATION, CLEAN AIR FILTER, AS REQUIRED.

- *ALARMS: TRIP ALL ALARMS MANUALLY TO CONFIRM EFFECTIVE OPERATION.

- *FILTERS: REMOVE, CLEAN, AND REINSTALL AS REQUIRED.

- *PUMP: CHECK OPERATION BY MANUALLY TRIPPING FLOAT SWITCH, OPERATE EACH PUMP MANUALLY AT CONTROL PANEL.

- MONITORING TO BE CONDUCTED SEMI-ANNUALLY

- MONITORING/SAMPLING TO BE CONDUCTED AT SAMPLING PORT. POLLUTANTS TO BE CHECKED SHALL BE AS FOLLOWS:

- *BOD ≤ 10% MG/L

- *TSS ≤ 10% MG/L

- *TN ≤ 50% REDUCTION

- *TP ≤ 10% MG/L

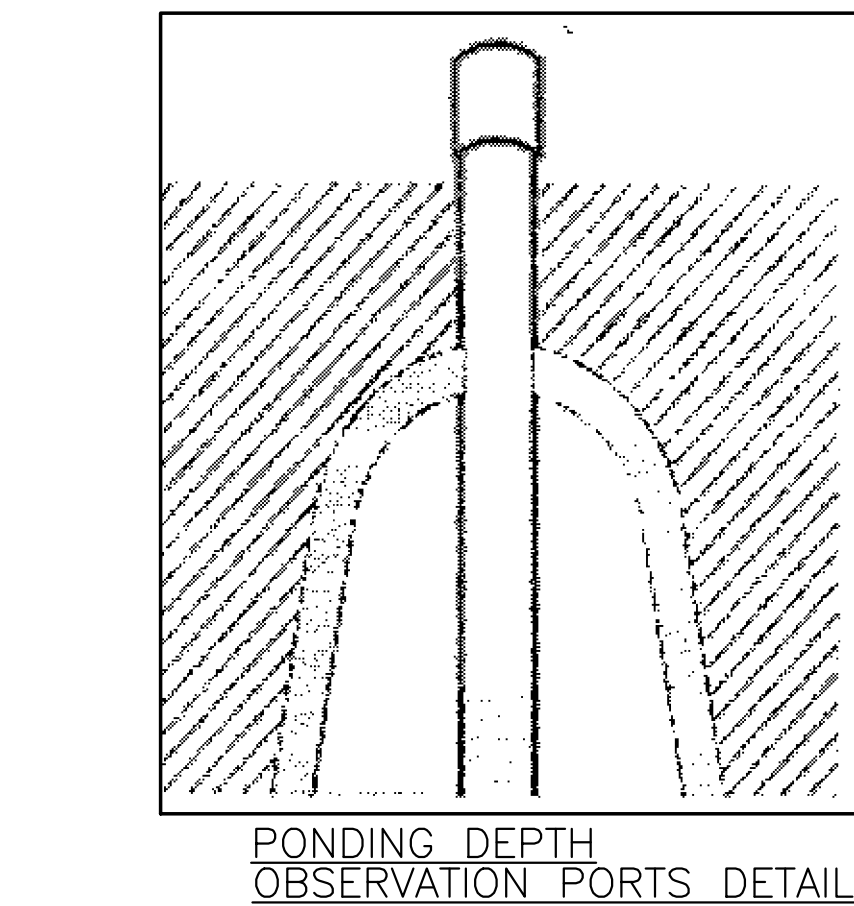
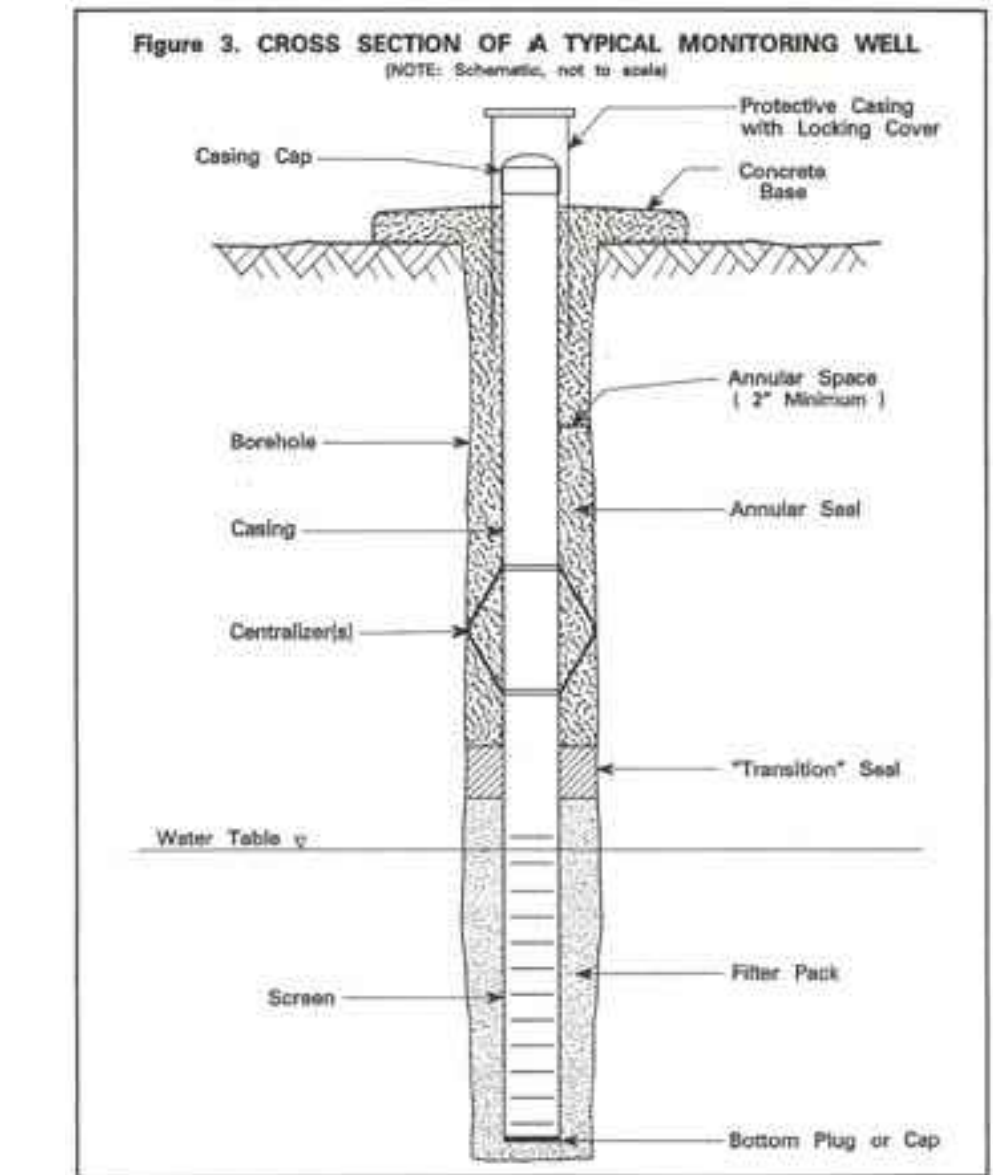
- *FECAL COLIFORM ≤ 200 FC COL/100 ML

CONTINGENCY:

- AT THE HIGH WATER LEVEL, THE SYSTEM ALARM SHALL SOUND. THE OWNER MUST CONTACT THE MAINTENANCE ENTITY WITHIN 24 HOURS OF ALARM.

- MAINTENANCE ENTITY PERSONNEL WILL INSPECT THE SYSTEM AND ORDER A REPAIR ON THE PROBLEM AS NECESSARY WITHIN 36 HOURS AS SPECIFIED IN 62-6.012(4)(b).

- OWNER SHALL HAVE TANKS PUMPED AS REQUIRED TO PREVENT THE CREATION OF SANITARY NUISANCE CONDITION UNTIL SUCH TIME AS REPAIRS ARE EFFECTED TO PREVENT SANITARY NUISANCE CONDITIONS.



This item has been digitally signed and sealed by Amariis Rodriguez, P.E. on 05/12/2024. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

