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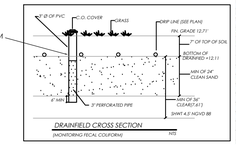
NEIGHBORING IRRIGATION WELL

PIZOMETER FOR CHLORIFORM MEASURING



NEIGHBORING IRRIGATION WELL

ADVANCED SECONDARY TREATMENT STANDARD "ASTS" TYPE III AS PER CHAPTER 62-6 F.A.C.

LOT SIZE: 39,493 Sq Ft = .91 ACRES
0.91 ACRES x 2500 = 2,275 G.P.D. , MAX.
4,297 S.F.(main house) + 548 S.F. (GTM-NO BEDROOM)
TOTAL: 6,845 S.F.

FIRST 2,551-3,300 SQ FT
6,845 S.F. - 3,300 =3,545 /750 = 4.73 x 60 = 285 G.P.D. (USE 300) — 400 GPD / 300 GPD / 700 GPD TOTAL

SEPTICK TANK ------ HOOT H-1000-AN

DRAINFIELD: A DRIP DISPOSAL SYSTEM AS PER TABLE N° III NETAFIN OR APPROVED EQUAL

ESTIMATED SEWAGE FLOW (G.P.D) / RATE ABSORSION IN (G.P.D) = 700 / 0.8 (DRIP IRRIGATION) = 875 SQ FT DRAINFILL & 438 SQ FT RESERVE AREA REQUIRED UNOBSTRUCTED AREA REQUIRED 1,313 SQ FT

ONE ZONE SYSTEM(LESS THAN 2000 L.F.)
ALL DRIP LINES SHALL BE INSTALLED BETWEEN 8" AND 6" DEPTH. MIN.
WITH EMITTERS AT 24" C/C. (PIPES 25" SEPARATED.)
875 S.F. AREA / 4 S.F.PER EMITER =
219 EMITTERS REQUIRED 438 LINEAL FEET OF DRIP LINE

PRESSURE LOSS IN 100' OF 1-1/4" TUBING IS 0.39 LBS.
(438 LF) 4.38 X 0.39 =1.71 LBS
PRESSURE LOSS ACROSS FILTER IS 7 PSI INCLUDING FILTER FLUSH RETURN LINE FLOW RATE WHILE THE SYSTEM IS RUNNING IS 2.3 GPM. RECIRCULATING RATE TO ACHIEVE 2.0 FT/S SCOURING VELOCITY 10.36 GPM AT 60' OF HEAD PRESSURE TO FIELD WILL BE ADJUSTED TO ACHIEVE A MAXIMUM OF 30 PSI ON THE SUPPLY MANIFOLD BY OPENING THE BY PASS PETCOCK LOCATED IN THE PUMP TANK.

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE =	39,493 SQ.FT. =	0.9 ACRES	
LAND USE :	SINGLE FAMILY RESIDENCE		
BUILDING AREA =	6845 SQ.FT	7 BEDROOM	

SEWAGE FLOW

MAXIMUM SEWAGE LOADING ALLOWANCE =		2267 GPD/ACRE (1500 GPDACRE OR 2500 GPD/ACRE)	
AUTORIZED SEWAGE FLOW=	2500 GPD/ACRE *	0.9 ACRES=	2267 GPD
UNIT FLOW CRITERIA (PER TABLE 1)	2500		
SEWAGE FLOW PER UNIT FLOW =	700		
TOTAL SEWAGE FLOW =	700 GPD		

TREATMENT TANK AND DRAINFIELD

PROPOSED SYSTEM : ADVANCED SECONDRY TREATMENT STANDARDS		
MINIMUM REQUIRED TREATMENT SYSTEM CAPACITY =	700 GPD	
DRAINFIELD CONFIGURATION: DRIP IRRIGATION SYSTEM		
DRAINFIELD MATERIAL : NEOFIN		
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRIANFIELD =		0.8 GAL/FT^2 DAY
DRAINFIELD SIZE = 700 GPD /	0.8 GAL/FT^2 DAY =	875 FT^2

SEPARATION BETWEEN THE SHWT AND BOTTOM OF DRAINFIELD (NGVD 88)

GRADE ELEVATION =	12.71 FT
SEASONAL HIGH WATER TABLE ELEVATION =	4.50 FT
ELEVATION AT BOTTOM OF DRAINFIELD =	12.11 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD =	7.61 FT

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE =	43,542.0 FT^2 =	1.0 **ACRES**	
LAND USE:	SINGLE FAMILY HOUSE		
GROSS BUILDING AREA =	18930 FT^2		
SEWAGE FLOW =	510 **GPD**		
SEWAGE LOADING =	510 **GPD/ACRE**	1.0 **ACRES=**	510 **GPD/ARCE**

Yes/No	CRITERIA FOR OSTDS TYPE SELECTION
Yes	PROPERTY WILL BE SERVED BY PUBLIC WATER
No	PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
Yes	SURFACE WATER BODIES BEYOND 1000 FEET (SEE L.F. AS PER SURVEYOR)
No	SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX 5,000FGS/ACRE
Yes	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
No	SEWAGE LOADING LESS THAN 500 GPD/ ACRE 510 GPD/ACRE

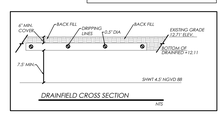
Yes/No	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Yes	SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Yes	SYSTEM WILL SERVE ONLY ONE LOT
Yes	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE

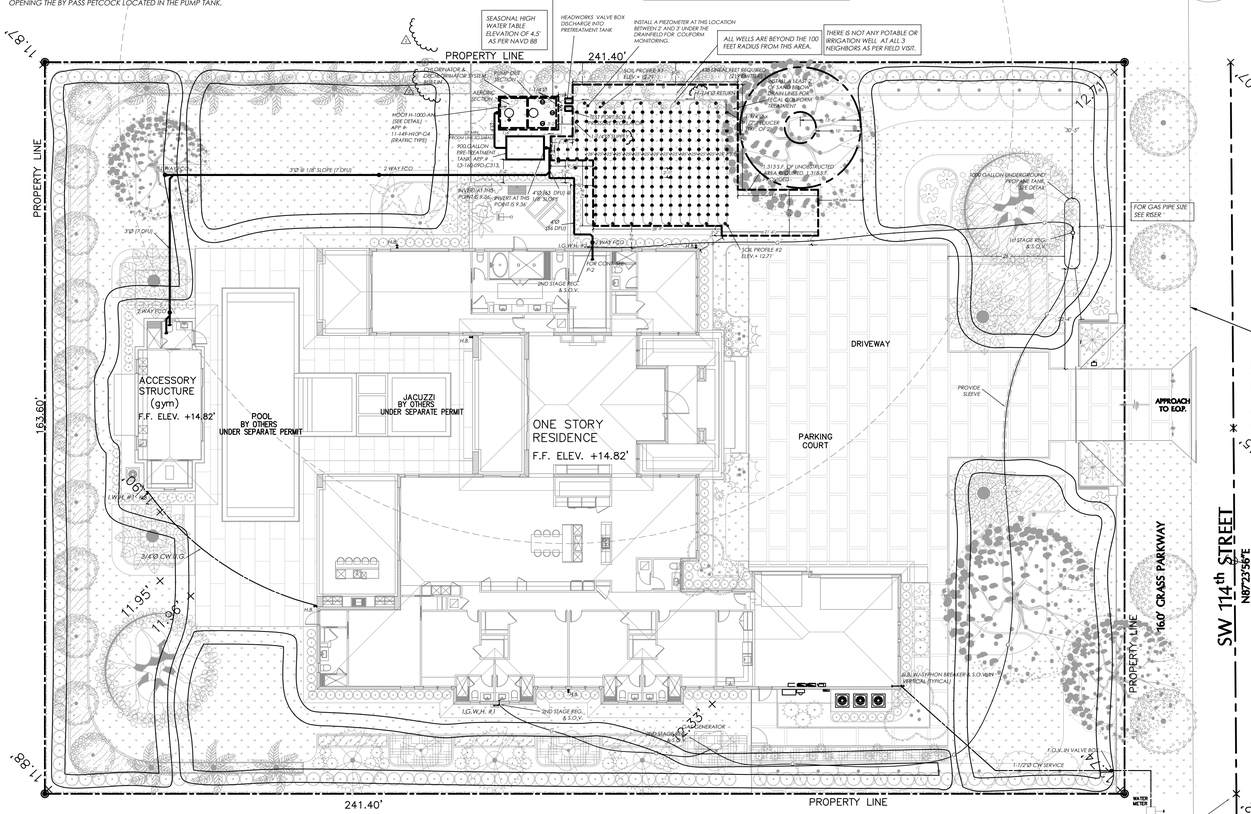
TYPE OF SYSTEM RISQUIRED:	ASTS	HOOT 1000	pick one : ATU (1)	STS (2)	ASTS (3)	AWTS (4)
TOTAL NITROGEN TREATED BY:	ASTS					
TOTAL PHOSPHORUS TREATED BY:	ASTS					
FECAL COLIFORM TREATED BY:	ASTS					
SOURCE OF TREATMENT STANDARDS:	ASTS					

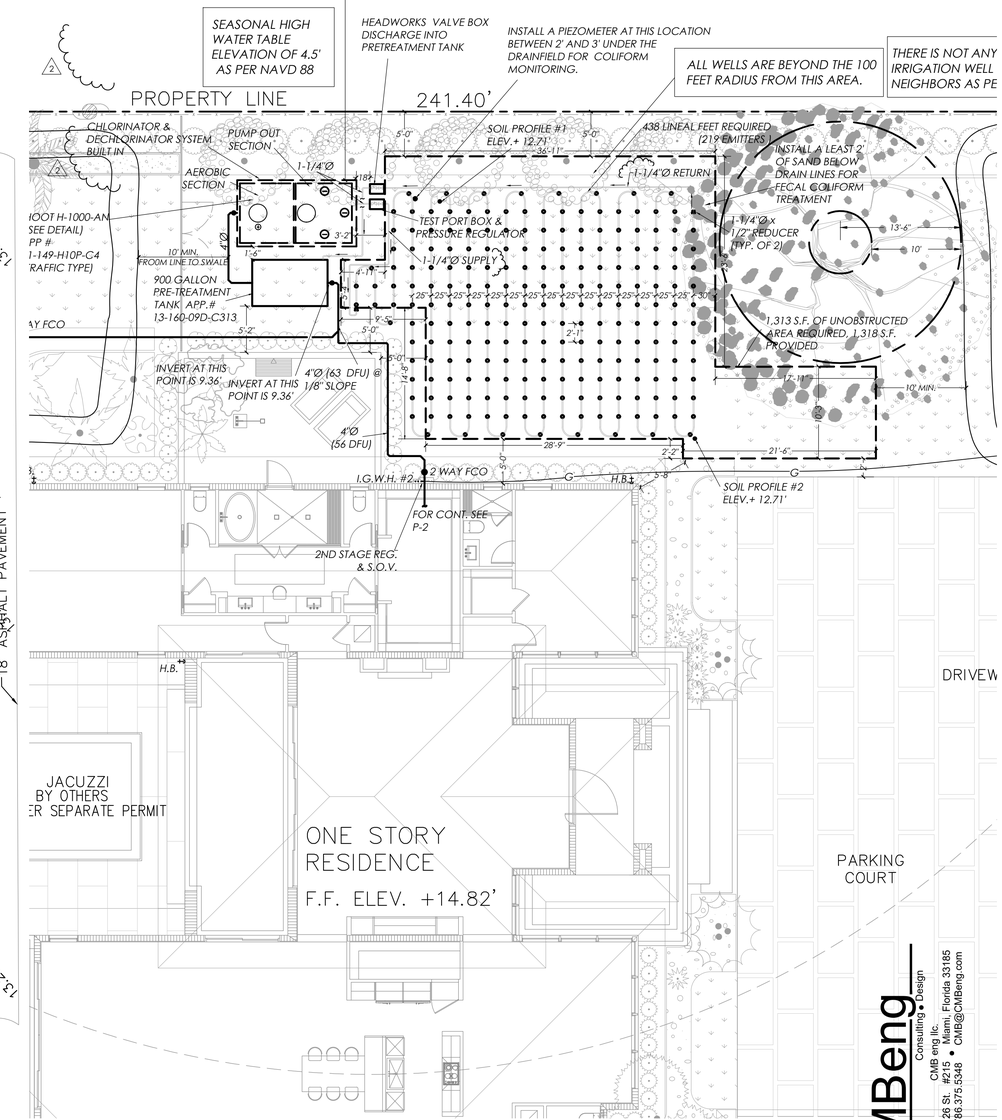
in compliance with NSF40

POLLUTANT	TREATMENT STANDARDS REQUIRED (mg/l) (ANUUAL AVERAGE)	PROPOSED (mg/l) (ANNUAL AVERAGE)
CBOD5	= OR<30 mg/l	= OR< 2.3 mg/l
TSS	= OR<30 mg/l	= OR< 2.35 mg/l
TN	= OR<10%	= OR< 8.8%
TP	= OR<30 mg/l	= OR< 3.12 mg/l
FECAL COLIFORM (fl/100ml)	= OR<200 fl/ cdl/100ml	= OR<2 0f/p100ml

NOTES:
1- COVER OVER THE DRIPLINE SHOULD BE NO MORE THAN 12".
2- TYPICAL EMITTER DIA.: 0.5"
3- DRIP LINES SPECS.: NETAFIM BIOLINE 08WRAMI







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REVISIONS:
1 B.D.C. 08-24-23
2 DERM 09-13-23
3 HRS 12-07-23

OWNER:
HERITAGE HOME BUILDERS, LLC.
9350 SOUTH DIXIE HIGHWAY
SUITE 1500
MIAMI, FL 33156
PHONE 305.665.3077

NEW CONSTRUCTION AT PINECREST RESIDENCE:
BY HERITAGE HOME BUILDERS, LLC.
7725 SOUTHWEST 114 STREET
VILLAGE OF PINECREST, FL 33156

SEAL:

Digitally signed by Edmundo Largaespada
Date: 2023.12.19 00:18:06 -05'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY EDMUNDO LARGAESPADA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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Professional Engineer
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Project No.: 23_0012

SITE PLUMBING PLAN

DATE :	03.23.2023
SCALE :	AS SHOWN
DRAWN :	
CHECK BY:	
JOB NO. :	23__0012

P-1

SHEET NO. :

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