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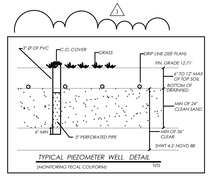
NEIGHBORING IRRIGATION WELL



OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.			
NET LOT SIZE =	43,542 SQ.FT. =	1.0 ACRES	
LAND USE :	SINGLE FAMILY RESIDENCE		
BUILDING AREA =	5549 SQ.FT	5 BEDROOM	
SEWAGE FLOW			
MAXIMUM SEWAGE LOADING ALLOWANCE =		2499 GPD/ACRE (1500 GPDACRE OR 2500 GPD/ACRE)	
AUTORIZED SEWAGE FLOW=	2500 GPD/ACRE *	1.0 ACRES=	2499 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 =		8.21 FT	

DETERMIINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 43,542.0 FT² = 1.0 ACRES
LAND USE: SINGLE FAMILY HOUSE
GROSS BUILDING AREA = 18330 FT² 1
SEWAGE FLOW = 700 GPD
SEWAGE LOADING = 700 GPD / 1.0 ACRES= 700 GPD/ARCE

Yes/No	CRITERIA FOR OSTDS TYPE SELECTION
Yes	PROPERTY WILL BE SERVED BY PUBLIC WATER
No	PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
No	SURFACE WATER BODIES BEYOND 1000 FEET (SEC 1, F. AS PER SURVEYOR)
No	SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
Yes	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
No	SEWAGE LOADING LESS THAN 500 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

TREATMENT STANDARDS		
POLUTANT	REQUIRED (mg/l) (ANUUAL AVERAGE)	PROPOSED (mg/l) (ANNUAL AVERAGE)
CBOD5	= OR < 10 mg/l	= OR < 3 mg/l
TSS	= OR < 10 mg/l	= OR < 2.35 mg/l
TN	= OR < 20%	= OR < 15%
TP	= OR < 10 mg/l	= OR < 3.12 mg/l
FECAL COLIFORM (fl/100ml)	= OR < 200 fc col/100ml	= OR < 2 CFU/100ml

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

LOT SIZE: 39,453 Sq Ft = .91 ACRES
0.91 ACRES x 2500 = 2,275 G.P.D , MAX.
6,297 S.F.(main house)+ 548 SQ.FT. (gym house -no bedroom)
FIRST 2,551-3,300 SQ FT 400 GPD
For each additional 750 S.F. = 60 G.P.D
6,297 S.F.(main house)+ 548 (gym house -no bedroom)
6,845 s.f. - 3,300 = 3,545 / 750 = 4.73 x 60 G.P.D. = 285 G.P.D. (USE 300) 300 GPD
700 GPD TOTAL

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

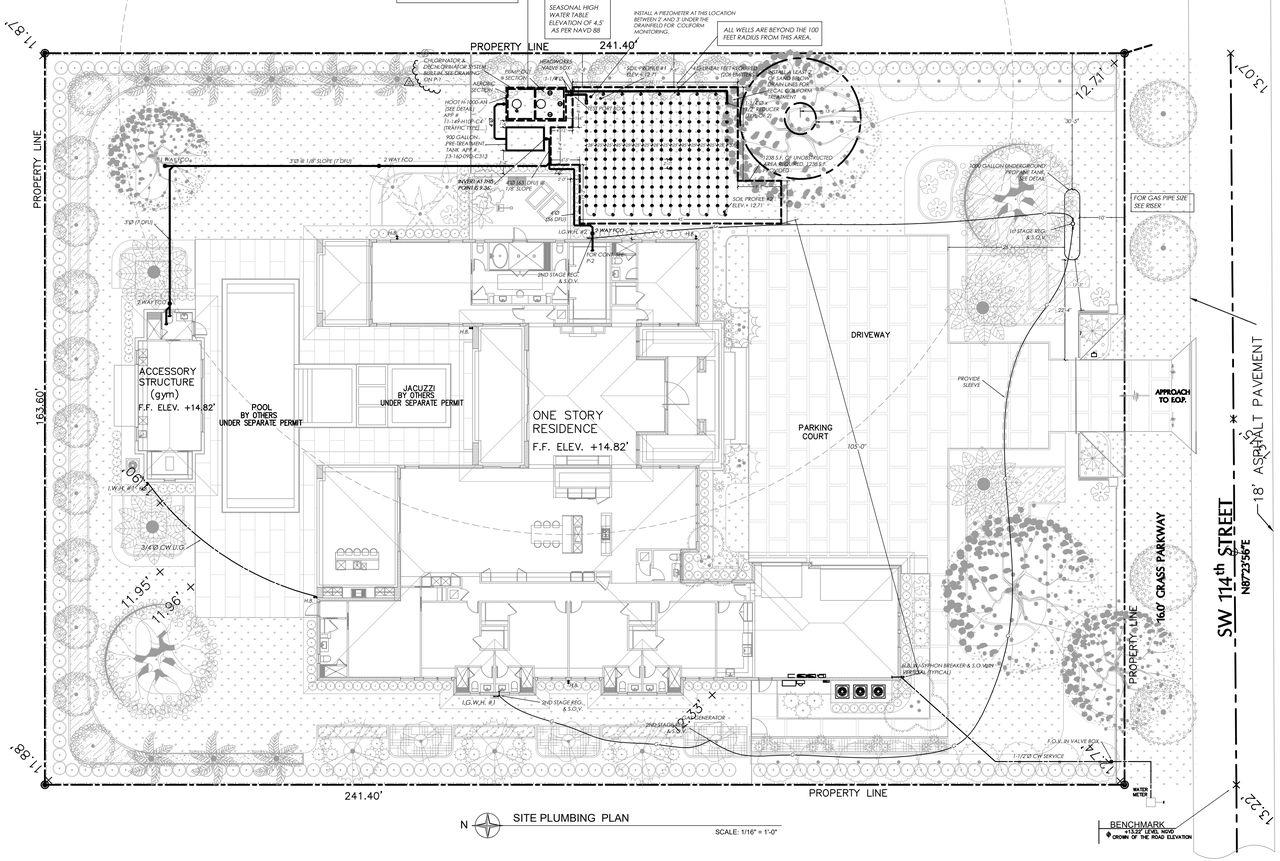
DRAINFIELD: A DRIP DISPOSAL SYSTEM AS PER TABLE N° III NETAFIN OR APPROVED EQUAL

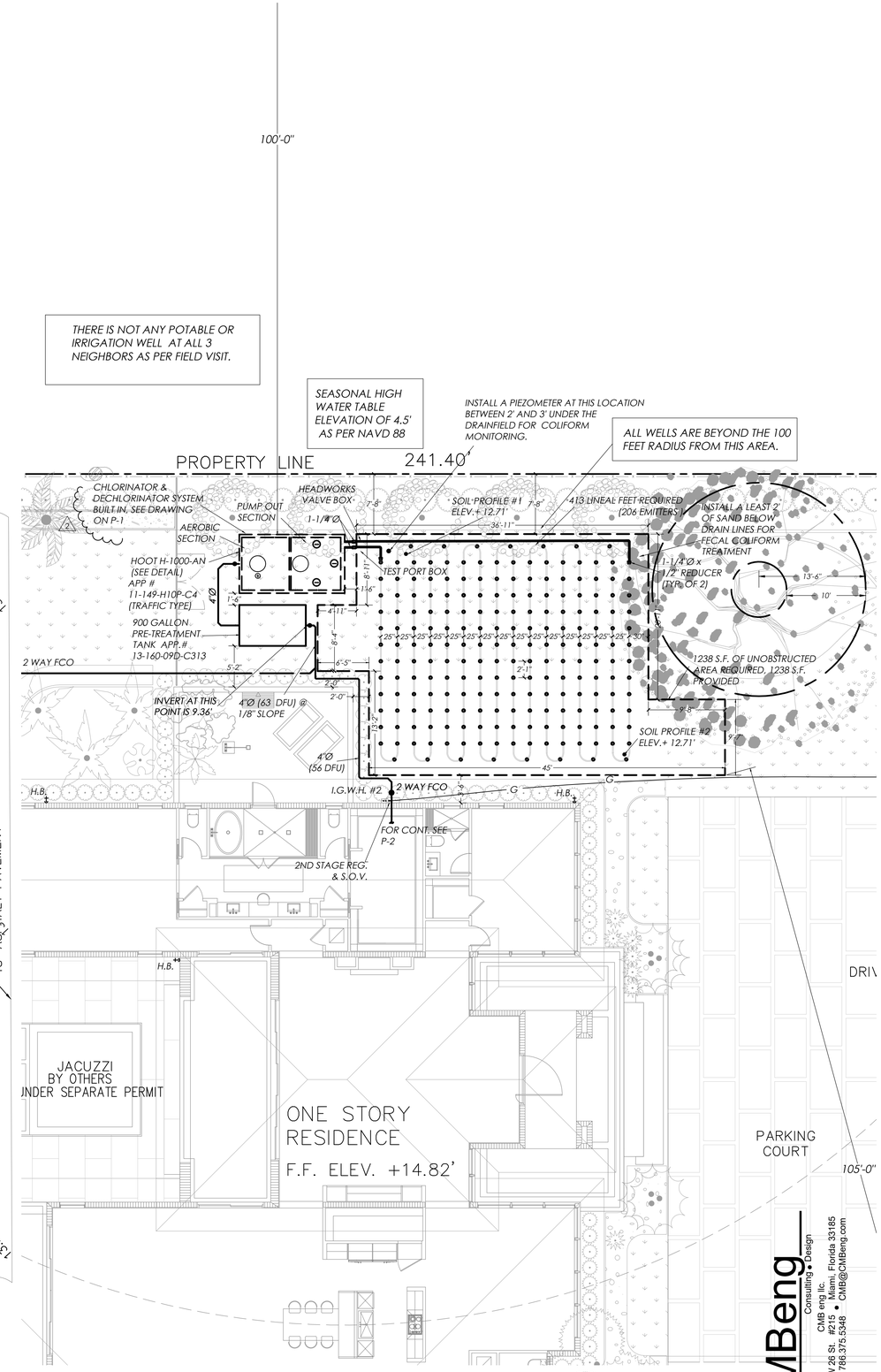
ESTIMATED SEWAGE FLOW (G.P.D) 700
RATE ABSORSION IN (G.P.D) 0.8 (DRIP IRRIGATION) = 825 SQ FT DRAINFILL & 413 SQ FT RESSERVE AREA REQUIRED
UNOBSTRUCTED AREA REQUIRED 1238 SQ FT PROVIDED

ONE ZONE SYSTEM(LESS THAN 2000 L.F.)
ALL DRIP LINES SHALL BE INSTALLED BETWEEN 8" AND 6" DEPTH. MIN.
WITH EMITTERS AT 24" O/C. (PIPES 25" SEPARATED.)
825 S.F. AREA / 4 S.F.PER EMITER =
206 EMITTERS REQUIRED 413 LINEAL FEET OF DRIP LINE

PRESSURE LOSS IN 100' OF 1-1/4" TUBING IS 0.39 LBS.
(413 LF) 4.13 X 0.39 =1.61 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.

THERE IS NOT ANY POTABLE OR IRRIGATION WELL AT ALL 3 NEIGHBORS AS PER FIELD VISIT.





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REVISIONS:
1 B.D.C. 08-24-23
2 DERM 09-13-23

OWNER:
HERITAGE HOME BUILDERS, LLC.
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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:

SITE PLUMBING PLAN

DATE :	03.23.2023
SCALE :	AS SHOWN
DRAWN :	
CHECK BY:	
JOB NO. :	23_0012

P-1

SHEET NO. :

STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER No. 56915

Digitally signed by Edmundo Largaespada
Date: 2023.10.18 18:10:09 -04'00'

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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Project No: 23_0012

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