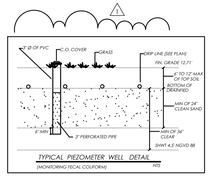
NEIGHBORING IRRIGATION WELL



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)
AUTORIZTED 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

DETERMIINATIION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 43,542.0 FT^2 = 1.0 ACRES
LAND USE: SINGLR FAMILY HOUSE
GROSS BUILDING AREA = 18320 FT^2
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.0 ACRES= 510 GPD/ARCE

Yes/No	CRITERIA FOR OSTOS TYPE SELECTION
Yes	PROPERTY WILL BE SERVED BY PUBLIC WATER
No	PROPERTY COMPLETELY OUTSIDE WELLHELD PROTECTION AREA
Yes	SURFACE WATER BODIES BEYOND 1000 HEET LCLEB L.K. AS PER SURVEYOR)
No	SEWAGE FLOW IS LESS THAN 500 GPD FOR SIM /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, ABLITTING, OR OPERATIVE
Yes	SYSTEM WILL SERVE ONLY ONE LOT
Yes	PROPERTY LINES OVER 50 FEET FROM OSTOS FOR PROPERTIES SERVED BY A POTABLE

TYPE OF SYSTEM REQUIRED: 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)
CBODn	≤ OR=10 mg/l	= OR= 3 mg/l
TSS	≤ OR=10 mg/l	= OR= 2.15 mg/l
TN	≤ OR=30%	= OR= 63%
TP	≤ OR=10 mg/l	= OR= 3.12 mg/l
FECAL COLIFORM (fl/100ml)	≤ OR=200 fl. col/100ml	= OR=2 CFU/100ml

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.

FIRST 2,551-3,300 SQ FT 400 GPD
FOR EACH ADDITIONAL 750 S.F. = 60 G.P.D
6,868 S.F. - 3,300 = 3,568 / 750 = 4.75 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

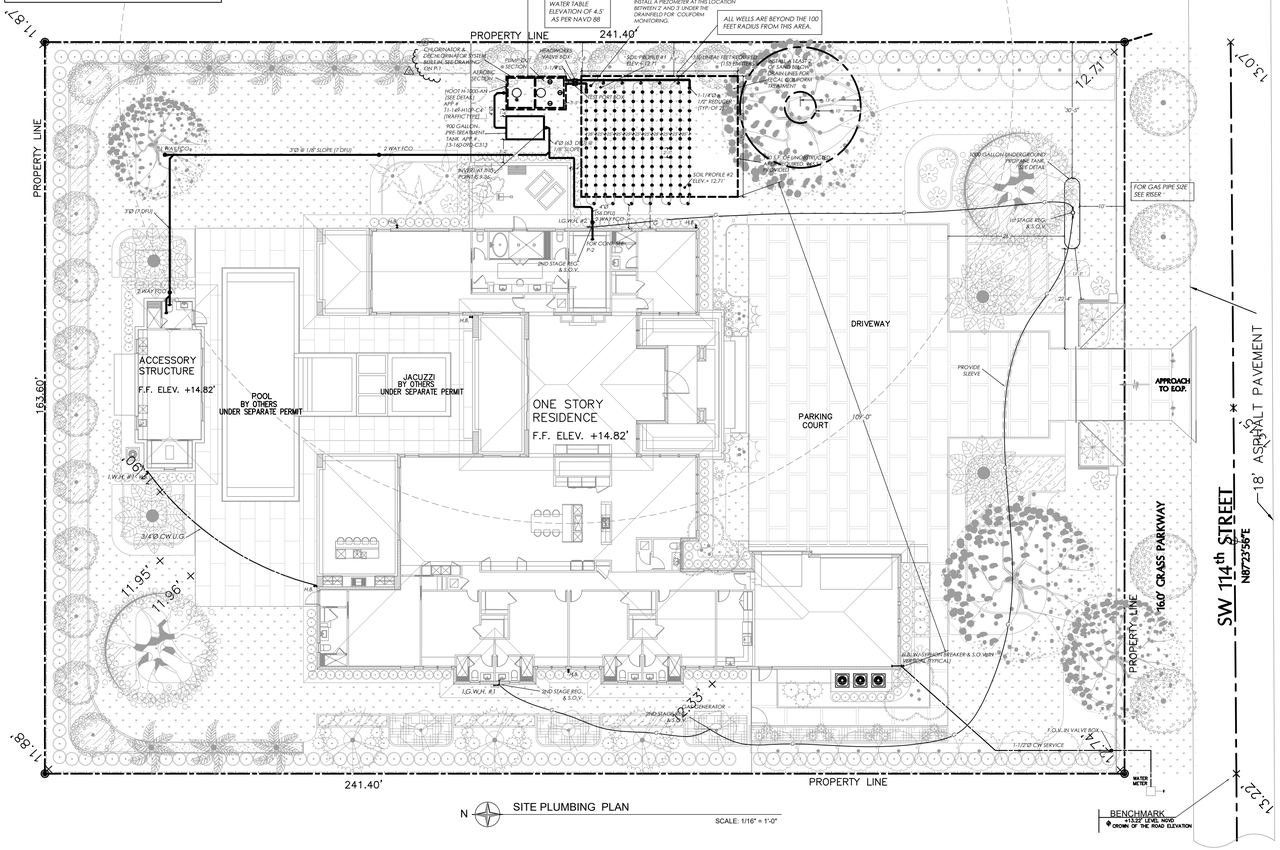
25% APPLIED FOR SECONDARY TREATMENT STANDARDS "STS"

ESTIMATED SEWAGE FLOW (G.P.D) / RATE ABSORSION IN (G.P.D) = 700 / 0.8 (DRIP IRRIGATION) = 825 SQ FT @ 25% REDUCTION
620 SQ FT RESERVE AREA REQUIRED 310 SQ FT
UNOBSTRUCTED AREA REQUIRED 930 SQ FT 945 SQ FT PROVIDED

PRESSURE LOSS IN 100' OF 1-1/4" TUBING IS 0.39 LBS.
(306 LF) 3.06 X 0.39 =1.20 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.

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.)
620 S.F. AREA. / 4 S.F.PER EMITER = /
155 EMITTERS REQUIRED. 310 LINEAL FEET OF DRIP LINE

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.
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:

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

P-1
SHEET NO. :

EDMUNDO J. LARGAESPADA LICENSE No 56915 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Edmundo Largaespada
Date: 2023.09.27 22:05:36 -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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