

# DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = **43,792** FT<sup>2</sup> = 1.001 ACRES  
 LAND USE: **SINGLE-FAMILY RESIDENCE**  
 GROSS BUILDING AREA = **11,224** FT<sup>2</sup>  
 SEWAGE FLOW = **510** GPD  
 SEWAGE LOADING = **510** GPD / **1.001** ACRES = **509.5** GPD/ACRE

| Y   | N | CRITERIA FOR OSTDS TYPE SELECTION                                                    |
|-----|---|--------------------------------------------------------------------------------------|
| X   |   | PROPERTY WILL BE SERVED BY PUBLIC WATER                                              |
| X   |   | PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA                                |
| X   |   | SURFACE WATER BODIES BEYOND 1000 FEET                                                |
| X   |   | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR/DUPLEX                                      |
| N/A |   | SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES                        |
| X   |   | SEWAGE LOADING LESS THAN 500 GPD/ACRE                                                |
| Y   | N | OTHER CONSIDERATIONS FOR OSTDS APPROVAL                                              |
| X   |   | SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE                                |
| X   |   | SYSTEM WILL SERVE ONLY ONE LOT                                                       |
| X   |   | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |

TYPE OF SYSTEM REQUIRED : **TYPE 3 - ADVANCED SECONDARY TREATMENT STANDARDS**  
 TOTAL NITROGEN TREATED BY : **NORWECO SINGULAR R3**  
 TOTAL PHOSPHORUS TREATED BY : **BIOKINETIC SYSTEM**  
 FECAL COLIFORM TREATED BY : **NORWECO SINGULAR R3 - BIOKINETIC SYSTEM CHLORINATION & DECHLORINATION**  
 SOURCE OF TREATMENT STANDARDS : **TESTING PERFORMANCE DATA FOR COMPONENTS OF PBTS**

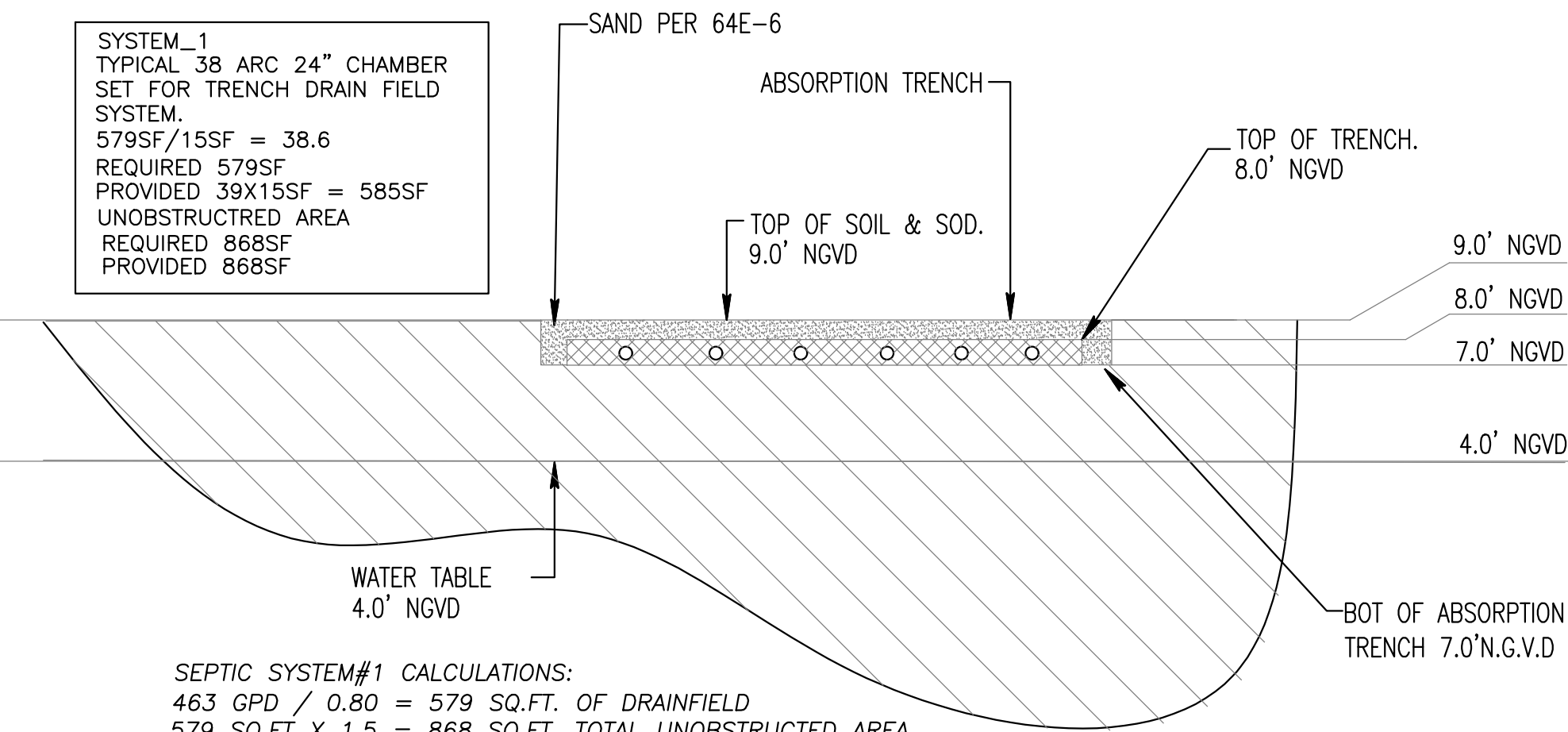
| TREATMENT STANDARDS        |                                     |                                     |
|----------------------------|-------------------------------------|-------------------------------------|
| POLLUTANT                  | REQUIRED (mg/L)<br>(ANNUAL AVERAGE) | PROPOSED (mg/L)<br>(ANNUAL AVERAGE) |
| CBOD <sub>5</sub>          | 10                                  | 5                                   |
| TSS                        | 10                                  | 4.6                                 |
| TN                         | 50%                                 | 65.7%                               |
| TP                         | 10                                  | 10                                  |
| FECAL COLIFORM (cfu/100ml) | 200                                 | 2                                   |

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

NET LOT SIZE = **40,276** FT<sup>2</sup> = **0.925** ACRES  
 LAND USE: **SINGLE-FAMILY RESIDENCE**  
 BUILDING AREA = **8,936** FT<sup>2</sup> & **8** BEDROOMS  
**SEWAGE FLOW**  
 MAXIMUM SEWAGE LOADING ALLOWANCE = **2,500** GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)  
 AUTHORIZED SEWAGE FLOW = **2,500** GPD/ACRE x **0.93** ACRES = **2,325** GPD  
 UNIT FLOW CRITERIA (PER TABLE 1) : **NUMBER OF BEDROOMS/BUILDING AREA**  
 SEWAGE FLOW PER UNIT FLOW = **400 GPD FOR 4 BEDS W/ 2281-3300 SQFT + 60 GPD PER ADDITIONAL 750 SQFT**  
 TOTAL SEWAGE FLOW = **880** GPD

**TREATMENT TANK AND DRAINFIELD**  
 PROPOSED SYSTEM : **NORWECO SINGULAR R3**  
 MINIMUM REQUIRED TREATMENT CAPACITY = **880** GPD  
 DRAINFIELD CONFIGURATION : **TRENCH**  
 DRAINFIELD TYPE : **STANDARD**  
 DRAINFIELD MATERIAL : **CHAMBERS**  
 MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = **0.8** GAL/FT<sup>2</sup>/DAY  
 DRAINFIELD SIZE = **880** GPD / **0.8** GAL/FT<sup>2</sup>/DAY = **1100** FT<sup>2</sup>

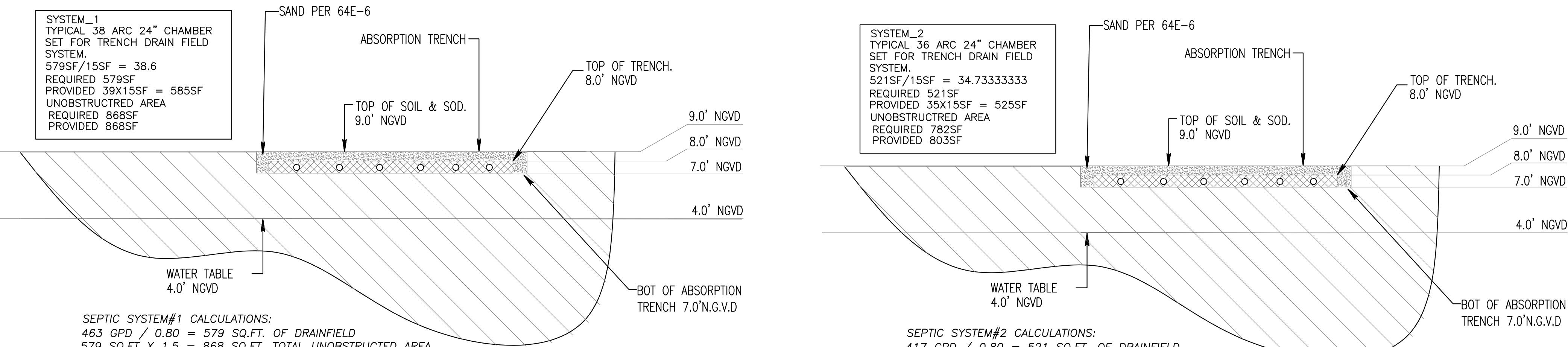
**SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN N.G.V.D.)**  
 GRADE ELEVATION = **8.0** FT  
 SEASONAL HIGH WATER TABLE ELEVATION = **4.0** FT  
 ELEVATION AT THE BOTTOM OF THE DRAINFIELD = **7.0** FT  
 SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = **36.0** INCHES



## DRAINFIELD SYSTEM#1 SECTION

N.T.S

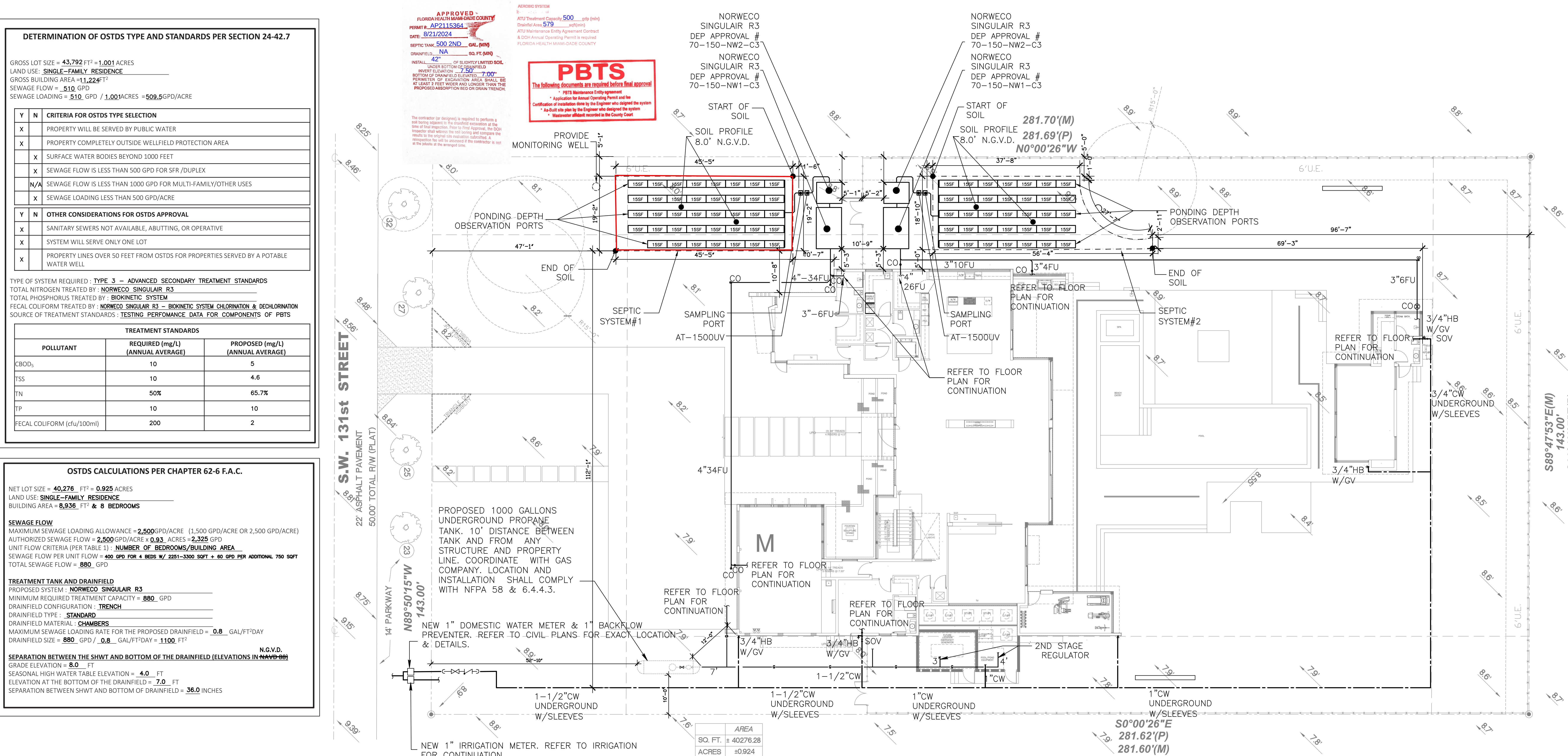
SEPTIC SYSTEM#1 CALCULATIONS:  
 463 GPD / 0.80 = 579 SQ.FT. OF DRAINFIELD  
 579 SQ.FT X 1.5 = 868 SQ.FT. TOTAL UNOBSTRUCTED AREA



## DRAINFIELD SYSTEM#2 SECTION

N.T.S

SEPTIC SYSTEM#2 CALCULATIONS:  
 417 GPD / 0.80 = 521 SQ.FT. OF DRAINFIELD  
 521 SQ.FT X 1.5 = 782 SQ.FT. TOTAL UNOBSTRUCTED AREA



GROSS LOT SIZE = 43,792 SQFT = 1.001 ACRES  
 GROSS FIRST FLOOR BUILDING AREA = 5,998 SQFT  
 GROSS SECOND FLOOR BUILDING AREA = 4,624 SQFT  
 GROSS GUEST HOUSE BUILDING AREA = 602 SQFT  
 GROSS TOTAL BUILDING AREA = 11,224 SQFT

LOT SIZE = 40,276 SQFT = 0.93 ACRES  
 FIRST FLOOR LIVING AREA = 4,519 SQFT  
 SECOND FLOOR LIVING AREA = 3,815 SQFT  
 GUEST HOUSE LIVING AREA = 602 SQFT  
 TOTAL LIVING AREA = 8,936 SQFT

**NOTE**  
 THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION, SEWAGE DISPOSAL AND TREATMENT SYSTEM INSTALLATION.

**BENCHMARK/REFERENCE POINT ELEVATION**  
 C/L OF SW 131 ST / SW PROP. LINE 8.46' N.G.V.D.

**LEGEND**  
 — — UNOBSTRUCTED AREA

**PLUMBING SITE PLAN**  
 SCALE: 3/32"=1'-0"

This item has been digitally signed and sealed by Amarielis Rodriguez, PE, on 2024.06.06. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

2020 Ponce de Leon Blvd., Suite 1002  
 Coral Gables, Florida 33134  
 Phone > 305 444 9809  
 Fax > 305 444 9827

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Amarielis Rodriguez, P.E.  
 License # 60286  
 Date: 2024.06.06  
 Signature: [Signature]

PROJECT NO: 2305  
 CLIENT: RONALDO FL2, LLC  
 1200 BISGAYNE BLVD.  
 MIAMI, FLORIDA 33181

REVISIONS:  
 CDS ENGINEERING GROUP, INC.  
 STRUCTURAL ENGINEER  
 185 NW 108TH STREET  
 MIAMI SHORES, FLORIDA 33168  
 ARPE ENGINEERING, LLC  
 MEP ENGINEERING  
 2020 PONCE DE LEON BLVD., SUITE 1002  
 CORAL GABLES, FLORIDA 33134  
 ALL LANDSCAPE DATA, INC.  
 LANDSCAPE ARCHITECT  
 4459 NW 97TH COURT  
 DORAL, FLORIDA 33178  
 NEW LEAF ENVIRONMENTAL, LLC  
 ISA CERTIFIED ARBORIST  
 57 SILVER SPRINGS DRIVE  
 KEY LARGO, FLORIDA 33057  
 TERRA CIVIL ENGINEERING, LLC  
 CIVIL ENGINEERING  
 4011 WEST FLAGLER ST., SUITE 404  
 MIAMI, FLORIDA 33134

CASA ROBLES 131  
 6545 SW 131 STREET PINECREST, FLORIDA 33156

PROJECT DESCRIPTION:  
 SINGLE FAMILY RESIDENCE

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SEAL:

FELIPE ALVARADO AR 91841

CONSTRUCTION DOCUMENTS

DATE: JUNE 4, 2024

SHEET TITLE: SITE PLAN

SHEET: