

I certify that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.

This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by J. Roeder, for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).

Florida-approved NSF 40-Certified Models

Florida-approved NSF Standard 245

Nitrogen-reducing, certified Aerobic Treatment Units in Florida

(Rule 62.6-012, Florida Administrative Code)

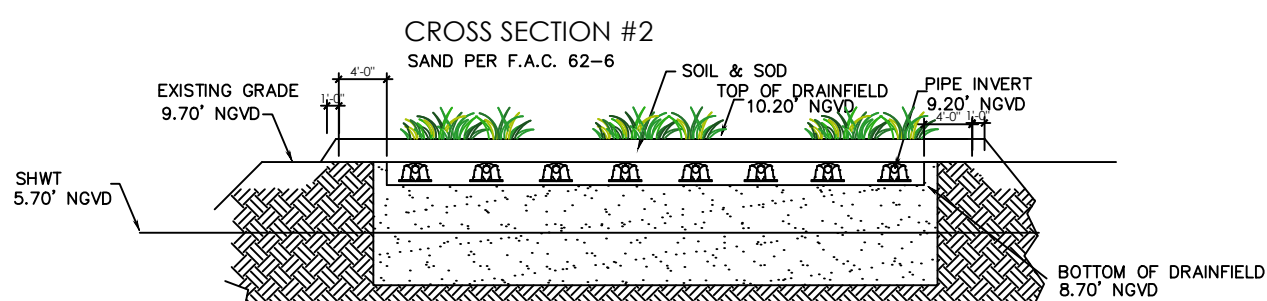
Norweco Singular TNI-5000, 700, 850, 1000, 1250, 1500

Average Total Nitrogen Reduction NSF 245 Completion report 68%

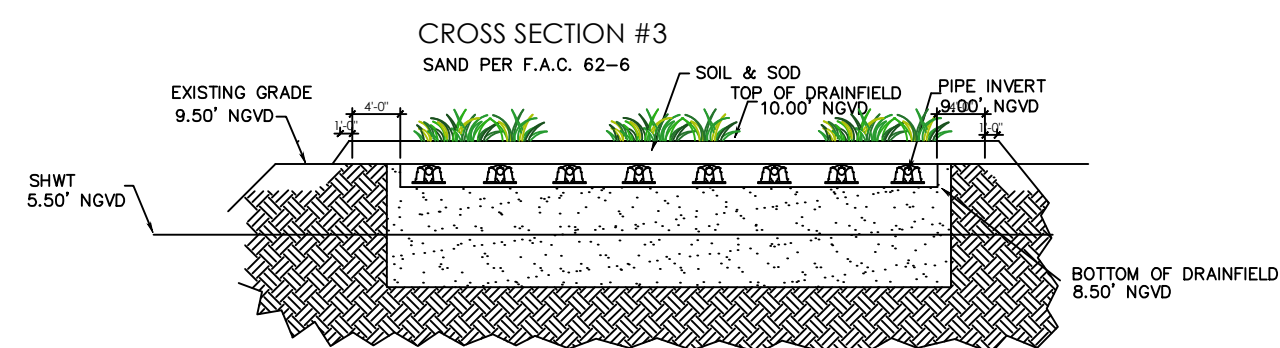
Singular TNI TN =6.80 mg/L, CBODS=6 mg/L, TSS=10 mg/L

TP treatment anticipates sufficiently low influent concentrations and is established to meet the established performance standard.

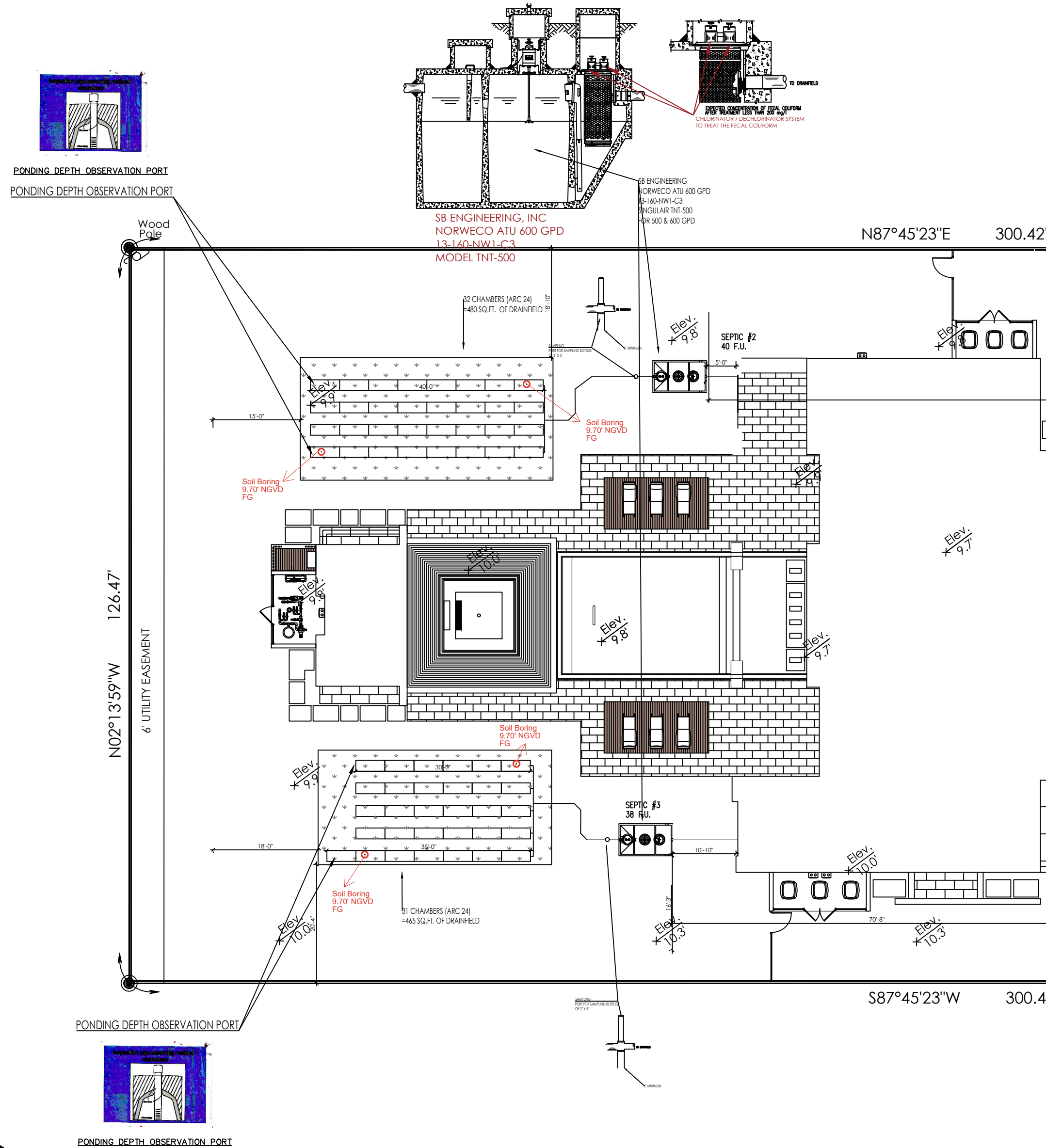
Testing facility: Chelsea, MI



SCALE NTS



SCALE NTS



Miami-Dade Department of Health  
O.S.T.D.S. Program  
Miami Dade County Building  
11805 S.W. 26th St.  
Miami, FL 33175

ENGINEER OF RECORD: Fausto Guerrero  
Florida State Licensed Engineer, Lic. No. 50465  
Address: 19552 SW 133 Ave  
Miami, FL 33177

REFERENCE: JORGE DE LA CONCEPCION  
8965 SW 63 CT  
MIAMI FL 33156

LEGAL DESCRIPTION: Lot 6, Block 2 Subdivision; STRITTER ESTATES

PROPERTY ID: 20-5001-053-0160

We are hereby requesting approval of a Performance-Based Treatment System (PBTs) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contractor and/or personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

**Power operation:** 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 a case of emergency.

Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used.

**Maintenance and inspection 2/year contract**

Inspection of Effluent treatment and preventative maintenance shall be performed as required by 62-6 F.A.C.

-First Inspection: At system installation by engineer.

-Second Inspection: 6 months after installation by engineer.

-Thereafter, every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:

- Solids Check accumulation (inspect pump-out every 3 to 5 years)
- Pump: Confirm proper operation; clean air filter, as required
- Alarms: Trip all alarms manually to confirm effective operation
- Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
- Flowmeter: Operate flowmeter by manually tripping float switch. Operate each pump manually at control panel

-Monitoring to be conducted semi Annually

Monitoring / Sampling: at SAMPLING POINT

Pollutant to be check

- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2. Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6 (4)(b)
3. Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.

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

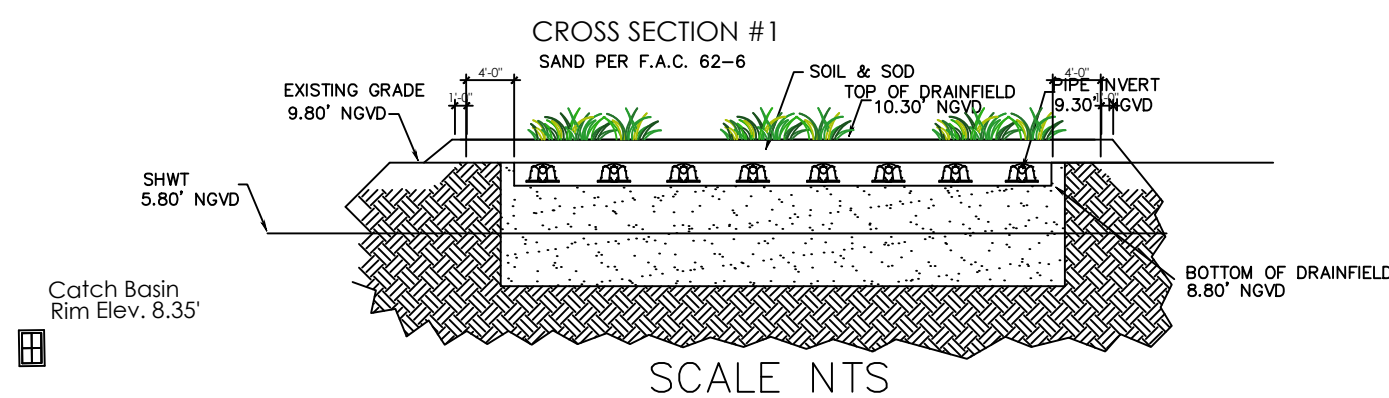
GROSS LOT SIZE 41,790.10 SQ. FT. = 0.959 ACRES  
LAND USE: RESIDENTIAL  
GROSS BUILDING AREA: 10,242 SQ. FT.  
SEWAGE FLOW: 510 GPD  
SEWAGE LOADING: 510 GPD / 0.959 ACRES= 531 GPD/ACRES

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

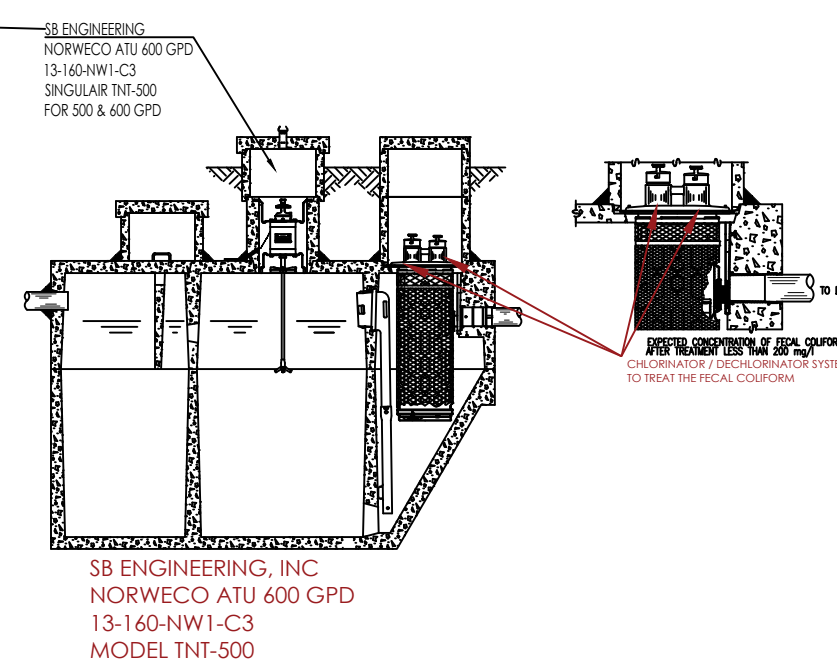
TYPE OF SYSTEM REQUIRED: TYPE 3 - ADVANCED SECONDARY TREATMENT STANDARDS  
TOTAL NITROGEN TREATED BY: (3) 600 GPD NORWECO SINGULAR TNT 500  
TOTAL PHOSPHORUS TREATED BY: NO REDUCTION  
FECAL COLIFORM TREATED BY: CHLORINATOR / DECHLORINATOR BIOKINETIC FILTER  
SOURCE OF TREATMENT STANDARDS: FOP TESTING PERFORMANCE DATA FOR PBTS

| POLLUTANT                  | REQUIRED (mg/L)<br>(Annual Average) | PROPOSED (mg/L)<br>(Annual Average) |
|----------------------------|-------------------------------------|-------------------------------------|
| CBOD <sub>5</sub>          | 10 mg/L                             | 4 mg/L                              |
| TSS                        | 10 mg/L                             | 9 mg/L                              |
| TN                         | 50%                                 | 68% - 12 mg/L                       |
| TP                         | 10 mg/L                             | 10 mg/L                             |
| FECAL COLIFORM (CFU/100ml) | 200 cfu/ 100 ml                     | 2 cfu/100 ml                        |

**SDS2 CALCULATIONS PER CHAPTER 62-6 F.A.C.**  
NET LOT: 37,996 SQ.FT. = 0.872 AC  
LAND USE: RESIDENTIAL  
BUILDING AREA: 8,500 SQ.FT. & 3 Bedrooms  
**SEWAGE FLOW**  
MAXIMUM SEWAGE LOADING ALLOWABLE = 2,500 GPD/ACRE OR 1,500 GPD/ACRE OR 2,500 GPD/ACRE)  
AUTHORIZED SEWAGE FLOW: 0.872 AC X 2,500 GPD/AC = 2,180 GPD  
UNIT FLOW CRITERIA (PER RESIDENTIAL BATH = 6 BEDROOMS, BUILDING AREA  
SEWAGE FLOW PER UNIT = 120 gpd per bedroom and 750 gpd/150 sq.ft. After 750 gpd/150 sq.ft. for each additional bedroom  
and 120 gpd per bathroom. The flow rate or fraction thereof in a dwelling unit, system using shall be  
increased by 60 gallons per dwelling unit.  
TOTAL SEWAGE FLOW: 880 GPD  
**TREATMENT TANK AND DRAINFIELD**  
PROPOSED SYSTEM (3) 600 GPD NORWEGIAN SINGULAR NTU 500  
MINIMUM REQUIRED TREATMENT CAPACITY: 200 GPD, 383 GPD & 383 GPD  
DRAINFIELD CONFIGURATION: TRENCH  
DRAINFIELD TYPE: STANDARD SURFACE  
DRAINFIELD MATERIAL: CURB/FAIRFACE  
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD: 0.80 gpd/FT<sup>2</sup> Day  
DRAINFIELD SIZE  
200 GPD/0.80 = 250 SQ. FT. OF DRAINFIELD (375 SQ.FT. TOTAL UNSTRUCTURED AREA)  
383 GPD/0.80 = 479 SQ. FT. OF DRAINFIELD (719 SQ.FT. TOTAL UNSTRUCTURED AREA)  
383 GPD/0.80 = 479 SQ. FT. OF DRAINFIELD (687 SQ.FT. TOTAL UNSTRUCTURED AREA)  
**SEPARATION BETWEEN THE BOTTOM OF THE BOTTOM OF DRAINFIELD ELEVATIONS (NGVD ±)**  
GRADE ELEVATION: #1 0.807 NGVD, #2 0.787 NGVD, #3 0.50 NGVD  
SEASONAL HIGH WATER TABLE ELEVATION = #1 0.807 NGVD, #2 0.57 NGVD, #3 0.57 NGVD  
SEPARATION AT THE BOTTOM OF THE BOTTOM OF DRAINFIELD = #1 0.807 NGVD, #2 0.70 NGVD, #3 0.85 NGVD  
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD= 36 INCHES

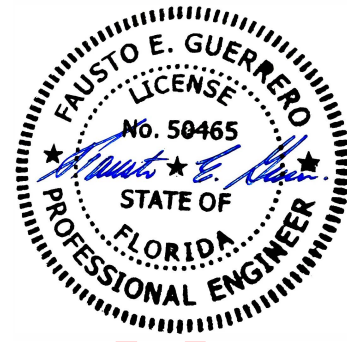


SCALE NTS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY FAUSTO GUERRERO 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.

8965 SW 63TH CT  
MIAMI, FL 33156



Digitally signed by  
Fausto E Guerrero  
Date: 2025.05.01  
15:04:57 -04'00'

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|-----|----------------|------|
|     |                |      |
|     |                |      |
| No. | Revision/Issue | Date |

Firm Name and Address

FAUSTO GUERRERO P.E.  
LIC. NO.: 50465  
19552 SW 133 AVE  
MIAMI, FL 33177

Project Name and Address

JORGE DE LA CONCEPCION  
5450 BANYAN TRIAL  
CORAL GABLES, FL 33156

|                      |                    |
|----------------------|--------------------|
| Project<br>8965      | Sheet<br><br>SSP-1 |
| Date<br>04/30/2025   |                    |
| Scale<br>1/16"=1'-0" |                    |