

STONEY CREEK WASTEWATER FACILITIES SUMMARY

DESIGN FLOW, 30-DAY AVERAGE: 31,000 GPD

WASTEWATER COLLECTION: CONVENTIONAL GRAVITY SEWERS W/INFLUENT LIFT STATION

PRIMARY TREATMENT: SEPTIC TANKS; 90,000 GALS CAPACITY; 2.9 DAYS HRT

INFLUENT FLOW EQUALIZATION: 25,000-GAL. PRE-ANOXIC/FLOW EQ TANK

SECONDARY TREATMENT: 35,000 GPD RECIRCULATING TEXTILE FILTER, AX-MAX (ORENCO SYSTEMS)

NITROGEN REMOVAL: - DENITITRIFICATION LOOP THROUGH PRE-ANOXIC/FLOW EQ TANK

- SUPPLEMENTARY DENITRIFICATION LOOP THROUGH PRIMARY TANKS

EFFLUENT LIMITS: BOD: 30 MG/L; TSS: 30 MG/L; TOTAL N: 20 MG/L

DOSING SYSTEM: 5,000-GAL DOSING TANK, W/DUPLEX LEACHFEILD AND DRIP FIELD PUMPS

EFFLUENT DISPERSAL: - PRIMARY LEACHFIELD: 3,485 LF 24" X 49" TRENCH @ 9.0 GPD/LF = 31,365 GPD

- 100% RESERVE LEACHFIELD AREA: CAPACITY FOR FUTURE 3,940 LF TRENCH

- INTERIM DRIP DISPERSAL IN RESERVE AREA, W/SEASONAL USE @ 20,000 GPD

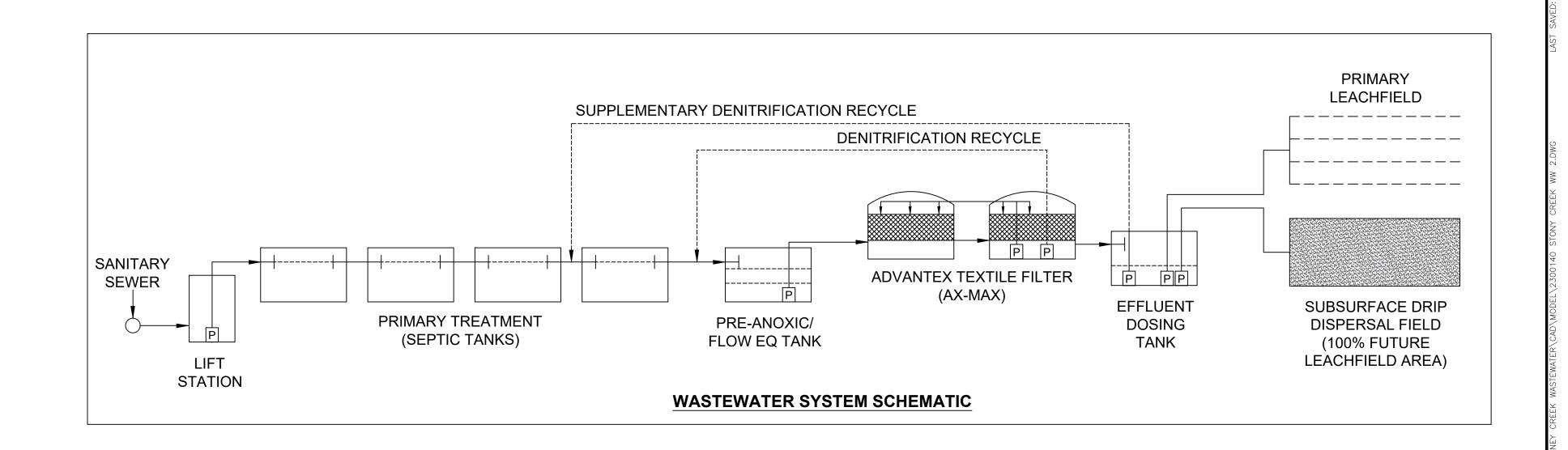
GRAYWATER SYSTEM: SEPARATE 3,300 GPD GRAYWATER COLLECTION, WETLAND FILTER AND

IRRIGATION/DISPOSAL SYSTEM FOR 55-UNIT SR. HOUSING CONDOMINIUMS

EMERGENCY POWER: ONSITE STANDBY GENERATOR

MONITORING AND ALARMS: REMOTE TELEMETRY MONITORING AND CONTROL SYSTEM (SCADA)

SYSTEM OPERATIONS: CALIFORNIA AMERICAN WATER; MINIMUM GRADE II OPERATOR



STONEY CREEK

MORGAN HILL, CA



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WASTEWATER TREATMENT LAYOUT Scale:

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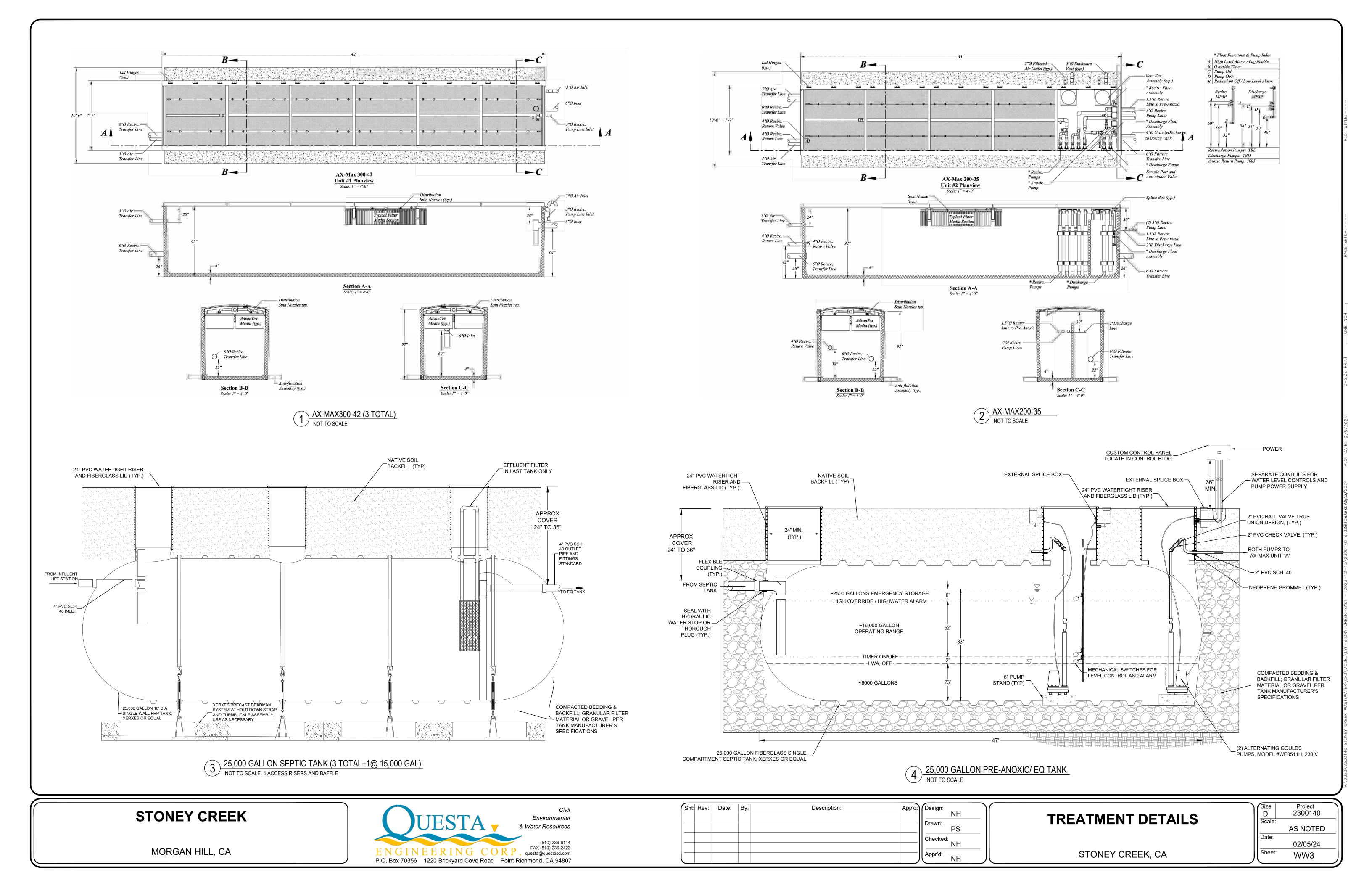
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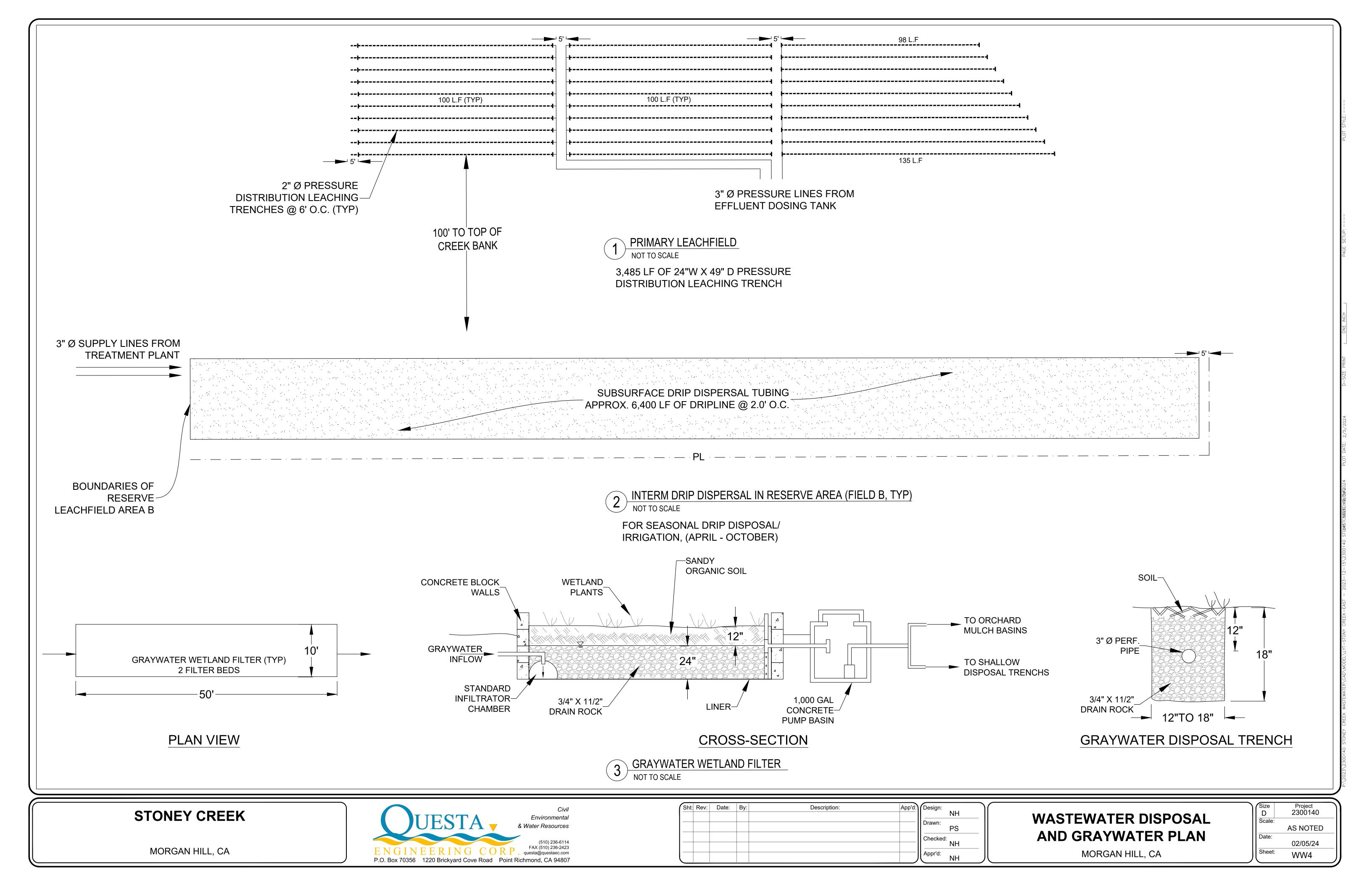
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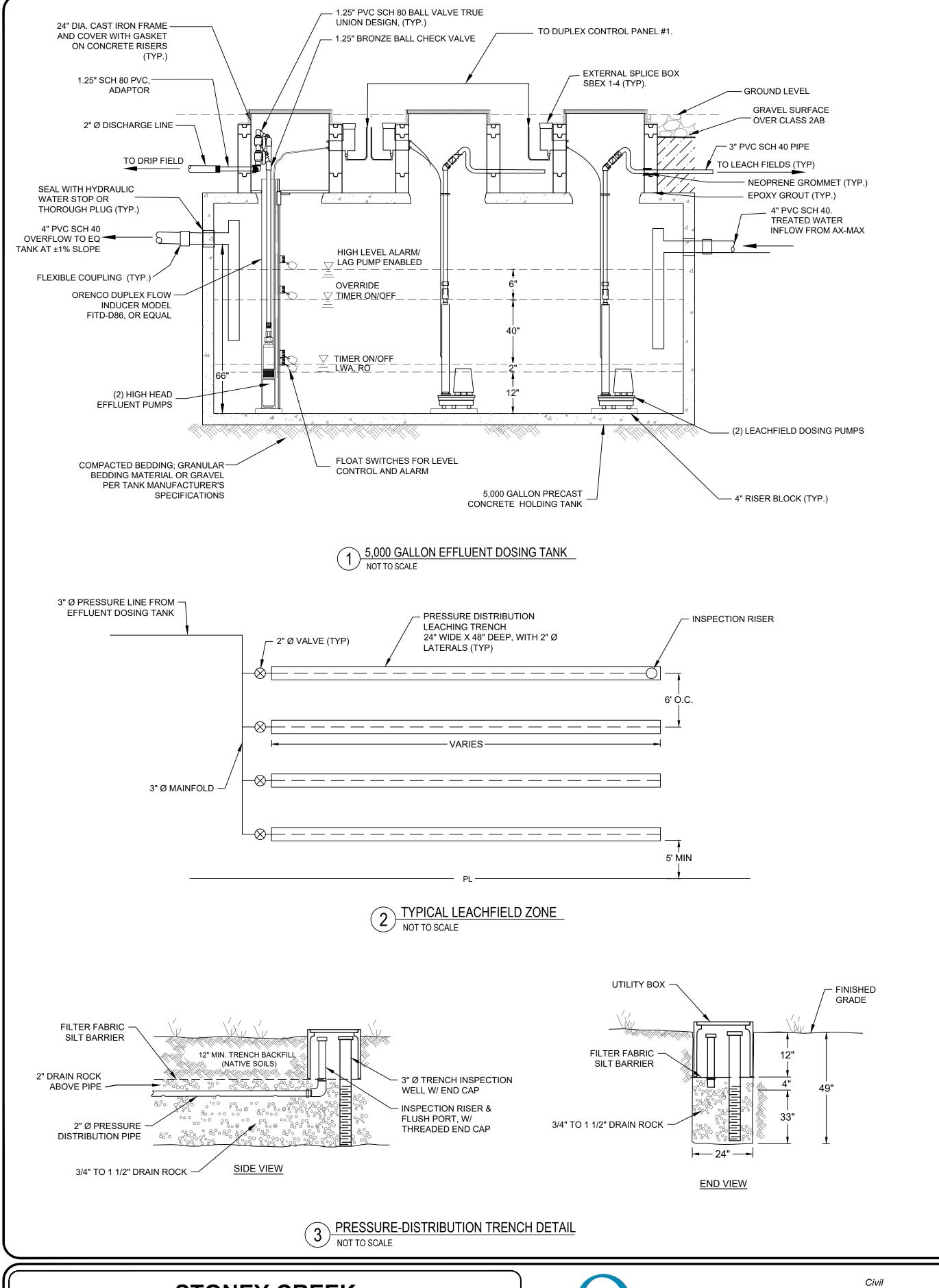
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Project 2300140

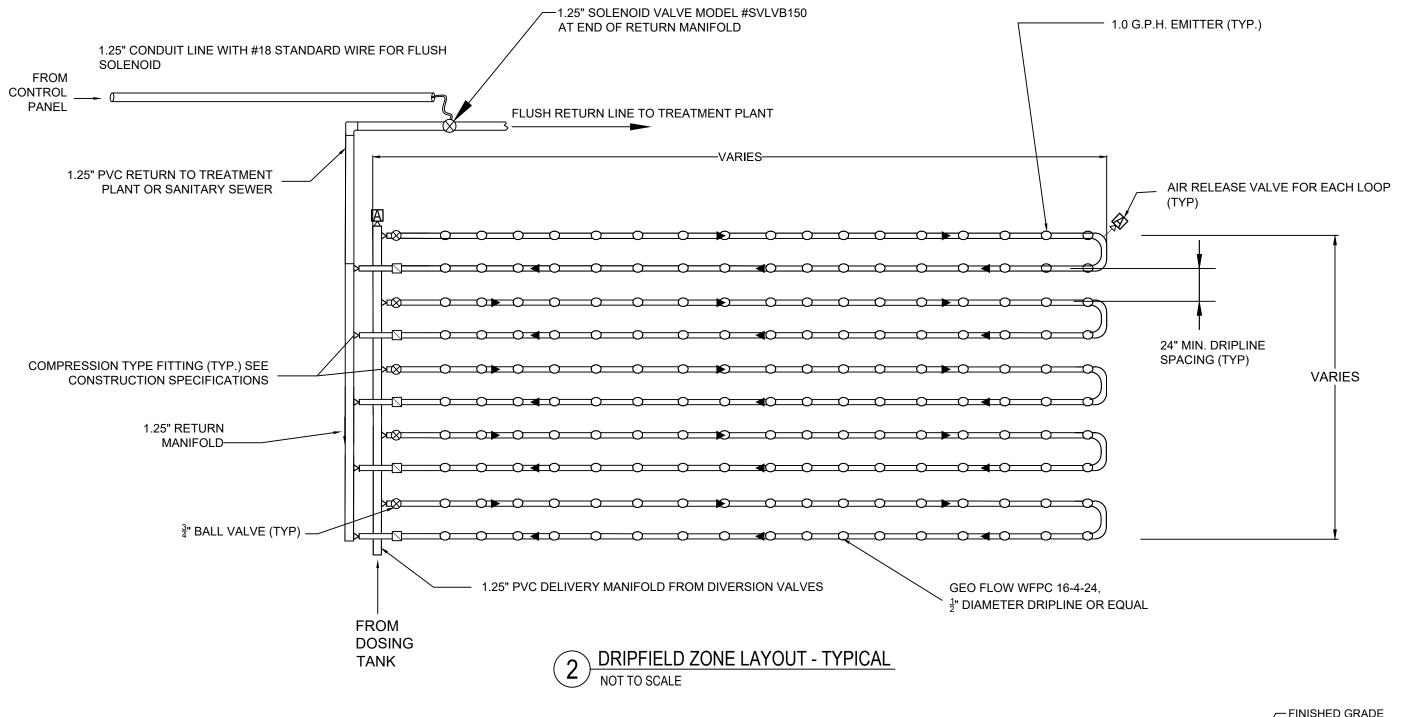


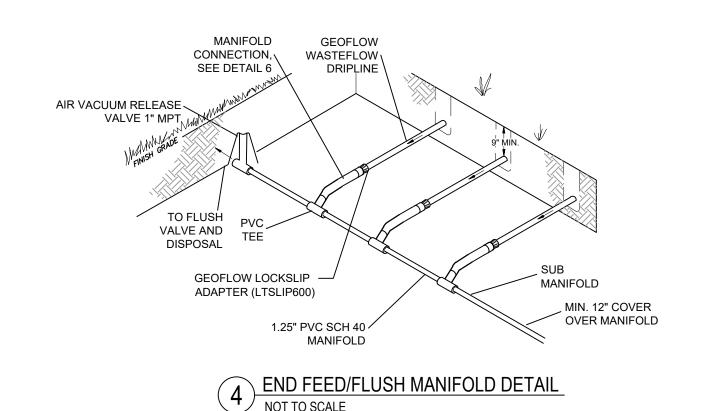


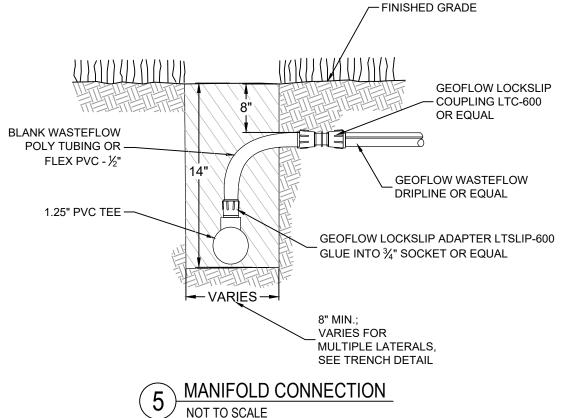


NOTE: 1. INSTALL VACUUM/AIR RELIEF VALVES AT HIGH POINTS OF DRIP LINE AND BEFORE EACH CHECK VALVE.

2. THE ROOT INTRUSION INHIBITOR IS TEMPERATURE SENSITIVE. DRIPLINE SHALL BE STORED IN SHADE DURING CONSTRUCTION.







WASTEWATER DISPOSAL SYSTEM DESIGN

PRESSURE DISTRIBUTION LEACHING TRENCHES:

- SYSTEM DESIGN FLOW (30-DAY AVE): 31,000 GPD
- TRENCH DIMENSIONS: 2' W X 4' D (32" EFFECTIVE SIDEWALL)
- EFFECTIVE INFILTRATIVE AREA: 7.5 SF PER LF
- APPLICATION RATE: 1.2 GPD/SF FOR SECONDARY WASTEWATER, <24 MPI
- TRENCH LOADING RATE: (7.5)*(1.2) = 9.0 GPD PER LF
- TOTAL REQUIRED TRENCH LENGTH PER FIELD: 21,000 GPD/9.0 GPD/LF = 3,450 LF
- PRIMARY LEACHFEILD: 3,485 LF
- PRIMARY 100% LEACHFIELD CAPACITY: (3,485 LF)*(9.0 GPD/LF) = 31,365 GPD
- 100% RESERVE FIELD CAPACITY: 3,940 LF; (3,940 LF)*(9.0 GPD/If) = 35,460 GPD
- TOTAL PRIMARY AND RESERVE DISPOSAL CAPACITY: 66,825 GPD (215% OF DESIGN)

INTERIM DRIP DISPERSAL FIELD

- INSTALL AND OPERATE SUBSURFACE DRIP DISPERSAL FIELD IN RESERVE AREA
- SEASONAL OPERATION FROM APRIL-OCTOBER (7-MONTH GROWING SEASON)

BENEFITS: A DELOCATION OF ORDER ORDER AREA MUTDELET

- ✓ SUB-IRRIGATION OF GRASS OPEN SPACE AREA W/TREATED WASTEWATER
 ✓ ENHANCED NITROGEN UPTAKE/REMOVAL BY VEGETATION & DENITRIFICATION
- DRIP TUBING INSTALLED AT 8-INCH DEPTH
- DRIP DISPERSAL AREA AVAILABLE: 20,000 FT²
- WASTEWATER LOADING RATE FOR GRAVELLY LOAM SURFACE SOILS: 1.0 GPD/FT²
- TOTAL POTENTIAL WASTEWATER DISPOSAL CAPACITY: 20,000 GPD
- ANNUAL VOL. OF WASTEWATER TO DRIP FIELD: 38% OF FLOW (1.88 MGALS)

STONEY CREEK

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WASTEWATER DISPOSAL DETAILS

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| Scale: | AS NOTED |
| Date: | 02/05/24 |
| Sheet: | WW5

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