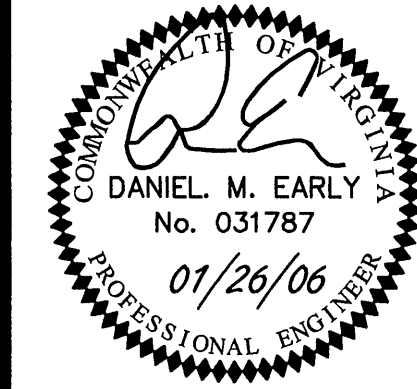


EQUIPMENT SCHEDULE				
ITEM	MAKE	MODEL	CAPACITY	QUANTITY
1	BARNES DUPLEX CONTROL PANEL IN NEMA 3R STEEL ENCLOSURE W/ ALARM LIGHT AND HORN	#065601	N/A	2
2	BARNES MERCURY LEVEL FLOAT CONTROLS	#073612	N/A	8
3	BARNES SUBMERSIBLE EFFLUENT PUMP	SP 33VFX	1/3 HP 120V 1 PH 3450 RPM 1 1/2" DISCHARGE	1
4	BARNES SUBMERSIBLE EFFLUENT PUMP	SE 421	0.4 HP 200–230V 1 PH 1750 RPM 2" DISCHARGE	4
5	BARNES SUBMERSIBLE EFFLUENT PUMP	SEV594L	2 HP 200–230V 3 PH 1750 RPM	1
6	BARNES SUBMERSIBLE EFFLUENT PUMP	SEV1094L	1 HP 200–230V 3 PH 1750 RPM	1
7	SEW EURODRIVE GEAR MOTOR R–SERIES	R137R77DT100L4–BMG4HR–KS	7.5 RPM RATIO 223:1 TORQUE RATED 38,400 IN.LB. SERVICE FACTOR 1.9, 3/60/230 CLASS F INSULATION, SEVERE DUTY, INVERTOR DUTY, MTG POS. B3 US INSTALLATION	1
8	SEW INVERTER W/ KEYPAD	9A2305.0, ATV18U72M2	5 HP 3 PH 60 HERTZ 230 VOLTS	1
9	SIEMENS REGENERATIVE BLOWER	2BH75100AK22	2 HP 3 PH 60 HERTZ 230–460 VOLTS	1
10	SIEMENS REGENERATIVE BLOWER	2BH72100AK12	1 HP 3 PH 60 HERTZ 230–460 VOLTS	1

WWTP GENERAL NOTES:

- SEE SHEET C1.8 FOR WWTP FACILITY SITE PLAN.
- ALL WWTP CONTROL PANELS SHALL BE LOCATED IN THE WWTP LABORATORY BUILDING. INSTALL PVC ELECTRICAL CONDUIT BETWEEN WWTP AND LAB BUILDING AND ROUTE POWER AND CONTROL CIRCUITRY AS REQUIRED.
- A LICENSED ELECTRICIAN SHALL BE REQUIRED TO INSTALL ALL ELECTRICAL CONDUIT, WIRING, CONTROL CIRCUITRY, AND CONTROL PANELS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING PROPOSED CONDUIT AND CONTROL WIRING INSTALLATION PRIOR TO START OF WORK.
- REFER TO ALL WWTP SHOP DRAWINGS PROVIDED BY THE MANUFACTURER.
- PROVIDE SACRIFICIAL ANODES FOR CORROSION PROTECTION. INSTALL ANODES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- THE WWTP MANUFACTURER SHALL PROVIDE DETAILED INSTRUCTIONS FOR INSTALLATION AND START–UP OF THE TREATMENT PLANT.
- PROVIDE BRONZE FLOW METERS IN EASILY ACCESSIBLE LOCATIONS AND AS SPECIFIED ON THE PLANS.
- BACKFILL AROUND WWTP AND PROVIDE A MINIMUM OF 6–INCHES OF REVEAL AROUND THE PERIMETER OF THE TREATMENT PLANT. GRADE SITE TO ENSURE POSITIVE DRAINAGE AWAY FROM THE TREATMENT PLANT.
- REFER TO PROJECT MANUAL FOR DETAILED MATERIAL AND EQUIPMENT SPECIFICATIONS.
- INSTALL SODA ASH FEED SYSTEM SO THAT SODA ASH SOLUTION IS ADMINISTERED AT IN INFLUENT OF THE PRIMARY EQUALIZATION TANK. INSTALL SODA ASH FEED SYSTEM IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.
- A LICENSED CLASS III WASTEWATER OPERATOR SHALL PROVIDE DAILY OPERATIONS AND MAINTENANCE FOR THIS WWTP FACILITY AFTER START–UP. WASTEWATER LICENSURE SHALL COMPLY WITH THE LATEST DPOR REGULATIONS AS SET FORTH BY THE STATE OF VIRGINIA. TESTING AND MONITORING GUIDELINES SHALL BE SET FORTH BY THE VIRGINIA DEPARTMENT OF HEALTH.
- THE OPERATIONS AND MAINTENANCE MANUAL FOR THE WWTP FACILITY SHALL BE PROVIDED 90 DAYS AFTER START–UP. THE WASTEWATER OPERATOR IN CONJUNCTION WITH THE WWTP MANUFACTURER SHALL PROVIDE THIS O&M MANUAL TO THE OWNER, THE CONSULTING ENGINEER, AND VIRGINIA DEPARTMENT OF HEALTH. THE MANUAL SHALL REFLECT ALL NECESSARY OPERATING PROCEDURES THAT ARE PARTICULAR AND SPECIFIC TO THIS TREATMENT SYSTEM.
- THE WWTP FACILITY SHALL HAVE A CLASS I RELIABILITY RATING AS SET FORTH BY THE VIRGINIA DEPARTMENT OF HEALTH. AN EMERGENCY BACK–UP ELECTRICAL GENERATOR SHALL BE PROVIDED WITH AUTOMATIC TRANSFER SWITCH CAPABILITY. THE GENERATOR SHALL BE SIZED TO ACCOMMODATE THE ULTIMATE WWTP FACILITY.

TANK VOLUME SCHEDULE			
TANK CLASSIFICATION	MEASUREMENTS	VOLUME (CU. FT.)	VOLUME (GALLONS)
EQUALIZATION TANK 1	7'L x 10'H x 14'W	980	7,300
EQUALIZATION TANK 2	12'L x 10'H x 14'W	1,680	12,500
DENITRIFICATION TANK	7'6"L x 10'H x 14'W	1,050	7,800
BIO–WHEEL TANK	20'L x 10'H x 14'W	2,800	20,832
AERATED SLUDGE HOLDING TANK	5'L x 10'H x 14'W	700	5,200
POST ANOXIC,	5'L x 10'H x 11'4"W	566	4,156
POST AEROBIC TANK	5'L x 10'H x 2'8"W	134	996
CLARIFIER	14'L x 14'W	196 SQ. FT.	—



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Engineering • Planning • Surveying
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2203 Peters Creek Road, NW
Roanoke, Virginia 24017
Phone: 540 562 2345
Fax: 540 562 2344
Email: info@acsdesignllc.com
www.acsdesignllc.com

LAKEWATCH PLANTATION

COMMUNITY SEWER SYSTEM

PHASE 1

FRANKLIN COUNTY, VIRGINIA

DRAWN BY: C.E.K.

DESIGNED BY: C.E.K.

CHECKED BY: D.M.E.

DATE: JAN. 26, 2006

SCALE: NO SCALE

REVISIONS

REVISION	DATE	COMMENT
1	01/26/06	UPDATED TABLE PER VDI

SHEET No.

C1.12

BIO–WHEEL
EQUIPMENT SCHEDULE
& WWTP NOTES

JOB No. 05076