



FACILITY WASTEWATER PROCESS & INSTRUMENTATION DIAGRAM			
SCALE:	NTS	DRAWN BY:	BDH
JOB NO.:	1-12-346A	DATE:	4-30-13
FIGURE NO.:	1		

MAXIS ENGINEERING, LLC
 1100 HOWELL BRIDGE ROAD
 BALL GROUND, GEORGIA 30107
 PHONE: (678) 454-1130
 FAX: (678) 454-1131

LEGEND

NO	NC	LSL	LSH	LSH	LSH	FT	M	PI	TI	V	U	---
		BALL VALVE	GATE/BUTTERFLY VALVE	SOLENOID VALVE	CHECK VALVE	FLOW TOTALIZER	MOTOR	PRESSURE INDICATOR	TEMPERATURE INDICATOR	VACUUM INDICATOR	UNION	SYSTEM FLUIDS PIPING
		LEVEL SWITCH LOW	LEVEL SWITCH HIGH	LEVEL SWITCH HIGH-HIGH	SWITCH - ELECTRICAL						CONTROLS/ELECTRIC LINE	

NOTES:

1. FLOW TOTALIZER (FT) SHALL BE SEAMETRICS INLINE FLOWMETER (GRAINGER PART NO. 3FR62), OR EQUIVALENT.
2. THE LSL, LSH AND LSHH FOR THE SUMP PUMP ARE TETHER TYPE FLDAT SWITCHES AND ARE INCLUDED WITH THE PURCHASE OF CONTROL PANEL.
3. THE CONTROL PANEL SHALL BE A VYNCKIER ENCLOSURE SYSTEM, INC. (688-887-1114) - GRAINGER PART NO. VYNCKIER GE-MID-IPHSFX.
4. CONTROL PANEL LOGIC:
 - A. A MANUALLY OPERATED SWITCH (BN/OFF) ON CONTROL PANEL FOR 3-WAY BUTTERFLY VALVE WILL OPEN VALVE TO DWS AND CLOSE VALVE TO DRAINAGE DITCH. ADDITIONALLY, MANUAL SWITCH CLOSSES ELECTRICAL SWITCH AND COMPLETES CIRCUIT TO ISOLVOLT OUTLET FOR PRESSURE WASHING ACTIVITIES.
 - B. LSL AND LSH IN DWS OPERATES SUMP PUMP, WHICH HAS A HAND-ON-AUTO (HDA) SWITCH ON CONTROL PANEL. A "GREEN" RUN LIGHT WILL ILLUMINATE WHEN PUMP IS ON.
 - C. LSHH IN DWS ILLUMINATES "RED" LIGHT ON CONTROL PANEL AND BREAKS CIRCUIT TO ISOLVOLT OUTLET.
 - D. LSHH IN AST ILLUMINATES "RED" LIGHT IN CONTROL PANEL AND BREAKS CIRCUIT TO SUMP PUMP.
5. ALL FLDAT SWITCHES WILL BE ADJUSTED IN THE FIELD FOR OPTIMAL OPERATION.

NOTES FOR OUTPUT:
 CAPACITY = 2000 GALLONS
 DIMENSIONS = 88.5" TALL
 MATERIAL OF CONSTRUCTION = POLYPROPYLENE
 INSULATION = POLYURETHANE
 DISTRIBUTOR = HANSON-GRANT PART NO. 25256 (GREENSBORO, GA. 912-681-2599)

NOTES FOR SUMP PUMP:
 FLOWMETER & PRESSURE VALVE
 HORSEPOWER = 1/3 HP
 MAKE & MODEL = DAYTON (BASE, IMPELLER AND SEAL ARE STAINLESS STEEL)
 DISTRIBUTOR = GRAINGER PART NO. 111687

4997.0' STORM WATER DISCHARGED TO DITCH