

Plot Date: 9/16/11 By: Koninek,Susanne File Location: U:\30070.00\Drawings\Gen\00-G-005.dwg

(I) INSTRUMENTATION/CONTROLS CONT'D		
02-I-597	EAST LOWER GROWTH PRODUCTION PONDS 0105-0206 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 1	
02-I-598	EAST LOWER GROWTH PRODUCTION PONDS 0305-0606 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 1	
02-I-599	EAST LOWER GROWTH PRODUCTION PONDS 0705-1006 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 2	
02-I-600	EAST LOWER GROWTH PRODUCTION PONDS 0107-0208 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 2	
02-I-601	EAST LOWER GROWTH PRODUCTION PONDS 0307-0608 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 3	
02-I-602	EAST LOWER GROWTH PRODUCTION PONDS 0707-1008 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 3	
02-I-603	WEST LOWER GROWTH PRODUCTION PONDS 0101-0402 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 4	
02-I-604	WEST LOWER GROWTH PRODUCTION PONDS 0501-0802 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 4	
02-I-605	WEST LOWER GROWTH PRODUCTION PONDS 0901-1202 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 5	
02-I-606	WEST LOWER GROWTH PRODUCTION PONDS 0103-0404 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 5	
02-I-607	WEST LOWER GROWTH PRODUCTION PONDS 0503-0804 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 6	
02-I-608	WEST LOWER GROWTH PRODUCTION PONDS 0903-1204 FF SEGMENT DIAGRAM CABINET NO. 02-01 RACK 2 SLOT 6	
02-I-609	EAST LOWER GROWTH PRODUCTION PONDS 0105-0206 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 4	
02-I-610	EAST LOWER GROWTH PRODUCTION PONDS 0305-0606 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 4	
02-I-611	EAST LOWER GROWTH PRODUCTION PONDS 0705-1006 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 5	
02-I-612	EAST LOWER GROWTH PRODUCTION PONDS 0107-0208 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 5	
02-I-613	EAST LOWER GROWTH PRODUCTION PONDS 0307-0608 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 6	
02-I-614	EAST LOWER GROWTH PRODUCTION PONDS 0707-1008 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 2 SLOT 6	
02-I-615	INNOCULATION PONDS 0001-0004 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 3 SLOT 1	
02-I-616	INNOCULATION PONDS 0001-0004 FF SEGMENT DIAGRAM CABINET NO. 02-11 RACK 3 SLOT 2	
03-I-551	GENERAL PLANT PLC EXTERNAL LADDER DIAGRAM RACK 0, SLOT 12	
03-I-552	GENERAL PLANT PLC EXTERNAL LADDER DIAGRAM RACK 0, SLOT 13	
03-I-553	GENERAL PLANT PLC EXTERNAL LADDER DIAGRAM RACK 0, SLOT 15	
03-I-554	GENERAL PLANT PLC EXTERNAL LADDER DIAGRAM RACK 0, SLOT 6	
03-I-555	HARVEST PONDS ANALOG OUTPUT AND INTERCONNECT CABINET NO. 03-01 RACK 6 SLOT 1	
03-I-571	DAF 1 FFB SEGMENT DIAGRAM CABINET NO. 03-01 RACK 2 SLOT 1	
03-I-574	CENTRIFUGE FFB SEGMENT DIAGRAM CABINET NO. 03-01 RACK 2 SLOT 2	
09-I-514	CHEMICALS & UTILITIES ONE LINE DIAGRAM PROCESS AREA INSTRUMENTATION	
09-I-519	CHEMICALS & UTILITIES SERIAL INTERFACE MODBUS DIAGRAM CABINET 09-01, RACK 2, SLOT 8	
09-I-520-1	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 1 OF 2 CABINET 09-01, RACK 3, SLOT 1	
09-I-520-2	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 2 OF 2 CABINET 09-01, RACK 3, SLOT 1	
09-I-521-1	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 1 OF 2 CABINET 09-01, RACK 3, SLOT 2	
09-I-521-2	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 2 OF 2 CABINET 09-01, RACK 3, SLOT 2	
09-I-522-1	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 1 OF 2 CABINET 09-01, RACK 3, SLOT 3	
09-I-522-2	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 2 OF 2 CABINET 09-01, RACK 3, SLOT 3	
09-I-523-1	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 1 OF 2 CABINET 09-01, RACK 3, SLOT 4	
09-I-523-2	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM SHT 2 OF 2 CABINET 09-01, RACK 3, SLOT 4	
09-I-524	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM CABINET 09-01, RACK 3, SLOT 5	
09-I-525	CHEMICALS & UTILITIES FIELDBUS SEGMENT DIAGRAM CABINET 09-01, RACK 3, SLOT 6	
09-I-544	CHEMICALS & UTILITIES ANALOG INPUT CARD INTERCONNECT CABINET 09-01, RACK 5, SLOTS 1-3	
09-I-545	CHEMICALS & UTILITIES ANALOG OUTPUT CARD INTERCONNECT CABINET 09-01, RACK 6, SLOTS 1-4	
09-I-546	CHEMICALS & UTILITIES 24VDC DISCRETE INPUTCARD INTERCONNECT CABINET 09-01, RACK 7, SLOT 1	
09-I-547	CHEMICALS & UTILITIES 120VAC DISCRETE INPUTCARD INTERCONNECT CABINET 09-01, RACK 7, SLOT 5	
09-I-548	CHEMICALS & UTILITIES 24VDC DISCRETE OUTPUT CARD INTERCONNECT CABINET 09-01, RACK 8, SLOTS 1 & 2	
09-I-571	POLYMER FEED FFB SEGMENT DIAGRAM CABINET NO. 09-01 RACK 3 SLOT 7	
09-I-572	POLYMER FEED FFB SEGMENT DIAGRAM CABINET NO. 09-01 RACK 3 SLOT 8	
INSTRUMENT INSTALLATION DETAILS		
40-911329-01	FF TRANSMITTER, pH, ROSEMOUNT ANALYTICAL XMT, FIELD WIRING	
40-911619-01	FF TRANSMITTER, CONDUCTIVITY ROSEMOUNT ANALYTICAL XMT, FIELD WIRING	
40-911926-01	TRANSMITTER, PRESSURE, AIR OR GAS	
40-911926-02	TRANSMITTER, PRESSURE, STEAM 0-800 PSIG	
40-911926-03	TRANSMITTER, PRESSURE DIFFERENTIAL ACROSS EQUIPMENT, AIR OR GAS	
40-911929-01	TRANSMITTER, PRESSURE, LIQUID, 0-800 PSIG	
40-911936-01	TEMPERATURE ELEMENT	
40-911936-02	THERMOWELL PROCESS CONNECTIONS	
40-911936-03	INDICATOR, TEMPERATURE DIRECT MOUNT	
40-911936-04	FF TRANSMITTER, TEMPERATURE ROSEMOUNT ANALYTICAL 3144P, FIELD WIRING	
40-912333-01	ORIFICE PLATE INSTALLATION FLANGE TAPS	
40-912333-02	ORIFICE PLATE INSTALLATION RADIUS TAPS	
40-912333-03	ORIFICE METER PIPE RUNS FLANGE TAPS	
40-912333-04	ORIFICE METER PIPE RUNS RADIUS TAPS	
40-912333-05	ORIFICE PLATE, WITH RADIUS TAPS, AIR OR GAS FLOW	
40-912333-06	ORIFICE PLATE, WITH RADIUS TAPS, STEAM FLOW	
40-912333-07	ORIFICE PLATE, WITH RADIUS TAPS, LIQUID FLOW	
40-912333-08	FLOW METER, FOR PUMP SEAL WATER	
40-912333-09	FF TRANSMITTER, MAGNETIC FLOW METER, ROSEMOUNT 8732E FIELD WIRING	
40-912333-10	FF TRANSMITTER, CORIOLIS (FLOW), MICROMOTION 2700 FIELD WIRING	
40-912333-11	FF TRANSMITTER, CORIOLIS (FLOW), MICROMOTION 3700 FIELD WIRING	
40-912336-01	GAUGE GLASS TYPICAL INSTALLATION	
40-912336-02	LEVEL DISPLACER TYPICAL INSTALLATION	
40-912336-03	LEVEL DISPLACER CONTROLLER EXTERNAL CAGE	
40-912336-04	TRANSMITTER, LEVEL, 3" 150# FLANGED, FOR VENTED VESSEL WITH ISO VALVE	
40-912336-05	TANK FLANGE PAD, FOR 3" 150# FLANGED LEVEL TRANSMITTER ON STEEL TANK	
40-912336-06	BUBBLE TUBE TYPICAL INSTALLATIONS	
40-912336-07	BUBBLE TUBE, SIDE MOUNTED WITH PRESSURE TRANSMITTER	
40-912336-08	BUBBLE TUBE, TOP MOUNTED WITH PRESSURE TRANSMITTER	
40-912336-09	TRANSMITTER, Dp LEVEL, PRESSURIZED VESSEL, LIQUID	
40-912336-10	ISOLATION VALVE, PURGE	
40-921326-01	VALVE, ON/OFF, CYLINDER WITH TUBED 3-WAY SOLENOID	
40-921326-02	VALVE, ON/OFF, CYLINDER WITH TUBED 4-WAY SOLENOID	
40-922900-01	CONTROL VALVE POSITIONER CURRENT TO PRESSURE CONVERTER	
40-951313-01	ALGAE OIL LOADOUT/SOLVENT UNLOADING SCULLY SYSTEM	
40-951313-02	ALGAE OIL LOADOUT/SOLVENT UNLOADING SCULLY SYSTEM	
40-952600-01	INSTRUMENT AIR PIPING	
40-952600-02	FOUNDATION FIELDBUS, ON/OFF OR CONTROL VALVE AIR SUPPLY	
40-954600-01	FLOOR MOUNTING STAND	
40-954600-02	INSTRUMENT STAND SIDE MOUNT	
40-954600-03	FIELD INSTRUMENT ID TAG	
40-954600-04	TRANSMITTER, CORIOLIS (FLOW), MICROMOTION 3700 FIELD ENCLOSURE	
40-954600-05	LOAD-OUT STATION LEVEL INDICATORS AND HORN/BEACON FIELD ENCLOSURE	
40-954600-06	FF JUNCTION BLOCK MOUNTING & DRIP LOOP SPECIFICATIONS	
40-957333-01	CONDUIT CONNECTION SOLENOID VALVE WITH LEADS	
40-957333-02	INSTRUMENT CONDUIT TERMINATION & TRANSMITTER ORIENTATION	
40-971500-01	PRESSURE GAGE	

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Reference Drawings		Revisions				Revisions				<div>Sapphire Energy</div> <div>SAPPHIRE ENERGY SAN DIEGO CALIFORNIA</div>	<div>Harris Group Inc.<div>Engineering for Optimum Performance®</div><div>www.harrisgroup.com</div></div> <div>Subconsultant: Drawn: SKK Engr: MDB Appr:</div> <div>Check: Check: PMgr: RSM</div>	PLANT GENERAL DRAWING INDEX SHEET 3		
Drawing No	Title	Rev	Date	By	Description	Rev	Date	By	Description			IABR Columbus, NM.		
		A	04/20/11	MDB	REVISED DRAWING TITLES; NEW DRAWING							Project No:	30070.00	Rev:
		B	09/16/11	MDB	REVISED DRAWING TITLES							Drawing:	00-G-005	<div>B</div>
						Rev	Date	App'd	Client Approval Milestone					