

ELECTRICAL LEGEND	
LIGHT FIXTURES - SEE LIGHTING FIXTURE SCHEDULE	
	SURFACE-MOUNTED FLUORESCENT
	WALL-MOUNTED
	CEILING-MOUNTED
	POLE-MOUNTED AREA LIGHT
CONVENIENCE OUTLETS	
	DUPLEX (WP=WEATHERPROOF)(G=GROUND-FAULT CIRCUIT-INTERRUPTING)(C=ISOLATED GROUND)
	JUNCTION BOX WALL, CEILING
SWITCH OUTLETS	
	SPST TOGGLE SWITCH
	THREE WAY TOGGLE SWITCH
	MOTOR-RATED SWITCH
CIRCUITS	
	RACEWAY IN CEILING OR WALL
	RACEWAY UNDERFLOOR, UNDERGROUND
	FLEXIBLE RACEWAY
	HOME RUN (ONE ARROW PER CIRCUIT)
	CONDUIT (UP, DOWN)
	EXPOSED RACEWAY
GENERAL EQUIPMENT	
	DISCONNECT SWITCH (F=FUSED, N=NON-FUSED)
	COMBINATION STARTER/DISCONNECT
	MOTOR (HORSEPOWER, * FRACTIONAL HORSEPOWER)
	208Y/120V, 3Ø, 4W ELECTRICAL PANELBOARD (FLUSH MOUNTED, SURFACE)
	480Y/277V, 3Ø, 4W ELECTRICAL PANELBOARD (FLUSH MOUNTED, SURFACE)
	WOOD BACKBOARD
	CIRCUIT BREAKER
	TRANSFORMER
	METER
ABBREVIATIONS	
3Ø	THREE PHASE
4W	FOUR WIRE
AIC	UL LISTED, INTERRUPTING CAPACITY-RMS SYMMETRICAL AMPERES
A, AMP	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
C, CD.	CONDUIT
HP	HORSEPOWER
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
M.B.	MAIN BREAKER
M.L.O.	MAIN LUGS ONLY
RECP.	RECEPTACLE
RVSS	REDUCED VOLTAGE SOLID STATE (SOFT STARTER)
UL	UNDERWRITER'S LABORATORY
LINETYPES	
NEW WORK PLANS	
	NEW WORK AND EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED
DEMOLITION PLANS	
	EXISTING EQUIPMENT TO BE REMOVED
	EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED

PANEL MDP												TYPE SURFACE				
VOLTAGE 480Y/277V, 3Ø, 4W												MAINS 400A MLO				
POLE	TRIP	CONDUCTOR	CONDUIT	DESIGNATION	KVA	NO	PHASE			NO	KVA	DESIGNATION	CONDUIT	CONDUCTOR	TRIP	POLE
							ØA	ØB	ØC							
3	110*	3#1, #6G	2"	HIGH SERVICE PUMP, HSP-1	21.4	1	42.8	42.8	42.8	2	21.4	HIGH SERVICE PUMP, HSP-2	1/2"	3#1, #6G	110*	3
					21.4	3				4	21.4					
					21.4	5				6	21.4					
3	110*	3#1, #6G	2"	WELL PUMP, WP-1	21.4	7	26.4	26.4	26.4	8	5.0	XLP	1/2"	3#10, #10G	30	3
					21.4	9				10	5.0					
					21.4	11				12	5.0					
3	15*	2#12, #12G	3/4"	EF-1	1.5	13	5.3	5.3	5.3	14	3.8	UH-2	3/4"	2#10, #10G	30*	2
					1.5	15				16	3.8					
					1.5	17				18						
				SPACE	-	19				20		SPARE				3
				SPACE	-	21				22						
				SPACE	-	23				24						
* - PROVIDE BREAKER WITH LOCKING DEVICE							TOTAL:	74.5	74.5	70.7						

PANEL LP												TYPE SURFACE				
VOLTAGE 208Y/120V, 3Ø, 4W												MAINS 50A MB				
POLE	TRIP	CONDUCTOR	CONDUIT	DESIGNATION	KVA	NO	PHASE			NO	KVA	DESIGNATION	CONDUIT	CONDUCTOR	TRIP	POLE
							ØA	ØB	ØC							
1	20	2#12, #12G	1/2"	LIGHTING, INTERIOR	0.8	1	0.9	0.9	0.9	2	0.1	LIGHTING, EXTERIOR	1/2"	2#12, #12G	20	1
1	20	2#12, #12G	1/2"	RECEPTACLES	0.9	3		1.1		4	0.2	CGC-1 & ESV-1	1/2"	2#12, #12G	20	1
1	20	2#12, #12G	1/2"	SCADA RTU	1.0	5			1.3	6	0.3	LIGHTING, POLE AREA	3/4"	2#12, #12G	20	1
1	20	2#12, #12G	1/2"	EF-2 (1/3 HP)	0.9	7	1.9	1.9	1.9	8	1.0	UH-1	1/2"	2#12, #12G	20	2
1	20	2#12, #12G	1/2"	RECEPTACLE, SUMP PUMP (1/2HP)	1.2	9		2.2		10	1.0					
1	20	2#12, #12G	1/2"	RECEPTACLE, FP-1	0.2	11			0.3	12	0.1	RECEPTACLE, CHLORINE SCALE	1/2"	2#12, #12G	20	1
1	20	2#12, #12G	1/2"	FIT-1 FLOW TRANSMITTER	0.1	13	0.1	0.1	0.1	14	-	SPARE				1
1	20	2#12, #12G	1/2"	GEN. BATTERY CHARGER	0.2	15		0.2		16	-	SPARE				1
2	30	2#10, #10G	3/4"	GEN. JACKET HEATER	1.0	17			1.1	18	0.1	CONTROL POWER	1/2"	2#12, #12G	20	1
					1.0	19		1.0		20	-	SPARE				1
1	20	-	-	SPARE	-	21				22	-	SPARE				1
1	20	-	-	SPARE	-	23				24	-	SPARE				1
TOTAL:							3.9	3.5	2.7							

UNIT HEATER SCHEDULE														
MARK	C.F.M.	MNF	MODEL NO.	PERFORMANCE		MAX. DIMENSIONS			MOTOR		PIPE SIZE	E.W.T. XXF	E.A.T. XXF	W.T.D. XXF
				MBH	KW	P.D. FT. W.G.	LENGTH	WIDTH	HEIGHT	RECESSED DEPTH				
UH-1	150	*	AWH-4408	2		16	4	20	3.5	-	-			
UH-2	590	*	HD30-750	7.5		15	15	26	-	1/15	1050			

FAN SCHEDULE														
MARK	C.F.M.	E.S.P. IN. W.G.	MNF	MODEL NO.	MOTOR	MAX. HP.	MAX. OPER. WEIGHT (LBS)	MAX. TIP SPEED F.P.M.	MAX. NOISE SONES	DRIVE ACCESSORIES				GENERAL NOTE:
										DIRECT	BELT	GRAVITY DAMPER	ELECTRIC DAMPER	
EF-1	7500	0.125	*	SCE	3/4	150	-	-	*	*	*	*	1;	MARK SF=SUPPLY FAN MARK EF=EXHAUST FAN MARK RF=RETURN FAN
EF-2	2410	0.25	*	SERIES 59	1/3	40	-	-	*	*	*	*	2;	

NOTES

- FAN SHALL BE PROVIDED WITH WALL SLEEVE, RAIN HOOD, BIRDSCREEN, BACKDRAFT DAMPER, AND MOTOR GUARD.
- FAN SHALL BE PROVIDED WITH ONE PIECE MOLDED FIBERGLASS HOUSING, MOTOR SUPPORT BASE, STAINLESS STEEL HARDWARE, FRP HOOD WITH BIRDSCREEN, AND FRP BACKDRAFT DAMPER.

LIGHTING FIXTURE SCHEDULE					
MARK	LAMPS	VOLTAGE	MANUFACTURER AND CATALOG NO.	MOUNTING	NOTES
A	(2)32T8	120	LITHONIA# DMW 232 120 GEB10RS STSL	SURFACE	1:
B	LED	120	LITHONIA# FMML 7 840	SURFACE	-
C	LED	120	LITHONIA# TWR1 LED 2 50K MVOLT	SURFACE	-
D	LED	120	LITHONIA# DSXF3LED 8 A530/50K 120 YKC62 DDBXD	POLE/YOKE	-

NOTES:

- PROVIDE WITH STAINLESS STEEL LATCHES

DESCRIPTION	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT
AUTOMATIC TRANSFER SWITCH POSITION	X			
CGC-1, CL2 LEAK ALARM	X			
CL2 TANK WEIGHT			X	
FIT-1, WATER FLOW RATE			X	
FLP-1, FLUORIDE PUMP: H-O-A STATUS (FUTURE)	X			
FLP-1, FLUORIDE PUMP: RUN COMMAND (FUTURE)		X		
FLP-1, FLUORIDE PUMP: RUNNING STATUS (FUTURE)	X			
GENERATOR RUNNING STATUS	X			
HL-1, TANK HIGH LEVEL SWITCH	X			
HL-2, SUMP HIGH LEVEL SWITCH	X			
HSP-1, HIGH SERVICE PUMP: AMPS			X	
HSP-1, HIGH SERVICE PUMP: H-O-A STATUS	X			
HSP-1, HIGH SERVICE PUMP: RUN COMMAND		X		
HSP-1, HIGH SERVICE PUMP: RUNNING STATUS	X			
HSP-1, HIGH SERVICE PUMP: SPEED COMMAND				X
HSP-2, HIGH SERVICE PUMP: AMPS			X	
HSP-2, HIGH SERVICE PUMP: H-O-A STATUS	X			
HSP-2, HIGH SERVICE PUMP: RUN COMMAND		X		
HSP-2, HIGH SERVICE PUMP: RUNNING STATUS	X			
HSP-2, HIGH SERVICE PUMP: SPEED COMMAND				X
INTRUSION DETECTION	X			
LL-1, TANK LOW LEVEL SWITCH	X			
LT-1, TANK LEVEL TRANSMITTER			X	
PT-1, HIGH SERVICE PUMP 2 DISCHARGE PRESSURE			X	
SV-1, CHLORINE RUN COMMAND		X		
SV-2, CHLORINE RUN COMMAND		X		
WP-1, WELL PUMP: AMPS			X	
WP-1, WELL PUMP: H-O-A STATUS	X			
WP-1, WELL PUMP: RUN COMMAND		X		
WP-1, WELL PUMP: RUNNING STATUS	X			

SCADA RTU INPUT/OUTPUT SCHEDULE			
NO.	DATE	REVISIONS	COMMENTS
A	04/07/15		ADD PT-1 AND CHLORINE SYSTEM MODIFICATIONS

SCALE: NONE

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**BRUNSWICK - GLYNN COUNTY
 JOINT WATER & SEWER COMMISSION
 HAMPTON POINT WATER PRODUCTION FACILITY**

SCHEDULES - MECHANICAL & ELECTRICAL

PROJECT NO: JWSC PROJECT# SS-2013-0010
 DATE: MAY, 2014
 SCALE: AS SHOWN
 DRAWN BY: EGURBP
 CHECKED BY: EGURBP

SHEET NO. **ME-2**

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