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32384 CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

SECONDARY CONTROL PANEL SUBMITTAL

SECTION 17441 - CONTROLS SYSTEM HARDWARE

January 26, 2026

ENGINEER: WRA

CONTRACTOR: JOHNSTON CONSTRUCTION

***MANUFACTURERS' REPRESENTATIVE FOR ENGINEERED INSTRUMENTATION,
PROCESS EQUIPMENT AND PUMPING SYSTEMS***

Branch Offices: RICHMOND, VA and LEOLA, PA

**32384 CHARLES COUNTY POMONKEY PUMP STATION
IMPROVEMENTS**

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**32384 CHARLES COUNTY POMONKEY PUMP STATION
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General Comments:

Parts Index:

SHT	MANUFACTURER	MODEL	DESCRIPTION
1	SCE	SCE-24H2010SS6LP	Wall Mount Enclosure - NEMA 4X
1	SCE	SCE-24P20	Enclosure Backpanel
2	Schneider Electric	9001SKT38LWW31	PTT Light, 120VAC LED, White
2	Schneider Electric	9001SKT38LYA31	PTT Light, 120VAC LED, Amber
3	Schneider Electric	9001SKR1B	Pushbutton, Black
3	Schneider Electric	9001KA3	1 NC Contact
4	Weidmuller	7940102575	Circuit Breaker, 120VAC, 5A
4	Weidmuller	7940125379	Circuit Breaker, 120VAC, 1A
5	Schneider Electric	RXM2AB2F7	Miniature Relay, 120VAC, 8 Blade
5	Schneider Electric	RXZE2M114	Miniature Relay Socket, 8 Blade, DIN
6	Schneider Electric	RXM3AB2F7	Miniature Relay, 120VAC, 11 Blade
6	Schneider Electric	RXZE2S111M	Miniature Relay Socket, 11 Blade, DIN
7	Square D	9050JCK16V20	Timing Relay, 0-10 min, 120VAC, 8 Pin Octal, DPDT
7	Square D	8501NR51	Timing Relay Socket, 8 Pin, DIN
8	Diversified	ISO-120-AAE	Isolated Switch, 2 Channel
9	Eaton	D851LA	Alternating Relay
9	Eaton	D3PA2	Alternating Relay Socket
10	SCE	SCE-TSH25	Enclosure Heater
10	Finder	7T.81.0.000.2403	Enclosure Heater Thermostat, NC
11	Phoenix Contact	3044076	Terminal Block
11	Phoenix Contact	3044092	Grounding Terminal Block
11	Phoenix Contact	3047028	Terminal End Barrier
11	Phoenix Contact	0800886	Terminal Anchor

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IMPROVEMENTS**

Data Sheet 1

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
<u>Qty</u>	<u>Description</u>
1	<p>Mfg: SCE: Wall Mount Enclosure - NEMA 4X Model Number: SCE-24H2010SS6LP</p> <p>Tags/Service: ENC / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 0.075" stainless steel type 316/316L • Flange trough collar around all sides of door opening • Pour in place oil & water resistant gasket • Stainless steel continuous hinges • Hasp and staple for padlocking
1	<p>Mfg: SCE: Enclosure Backpanel Model Number: SCE-24P20</p> <p>Tags/Service: ENC / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 21"H x 17"W x .88"D • Powder coated white finish

Data Sheet 2

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Schneider Electric: PTT Light, 120VAC LED, White Model Number: 9001SKT38LWW31</p> <p>Tags/Service: LT4203 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Fresnel plastic lens type• Full voltage 120V light block supply• Plastic bezel material• White lens color• White LED• Round signaling unit head• Polycarbonate lens material
2	<p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Amber Model Number: 9001SKT38LYA31</p> <p>Tags/Service: LT4307, LT4311 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Fresnel plastic lens type• Full voltage 120V light block supply• Plastic bezel material• Amber lens color• Yellow LED• Round signaling unit head

	<ul style="list-style-type: none">• Polycarbonate lens material
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Data Sheet 3

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Schneider Electric: Pushbutton, Black Model Number: 9001SKR1B</p> <p>Tags/Service: PB4306 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Plastic bezel material • Octagonal signaling unit head • NEMA 4X degree of protection • Black operator color • Flush operator profile • Spring return operator • 30mm size
1	<p>Mfg: Schneider Electric: 1 NC Contact Model Number: 9001KA3</p> <p>Tags/Service: PB4306 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Positived opening contact operation • Screw clamp terminals • 7.08 lbf.in tightening torque • Silver alloy contact material • 10A conventional free air thermal current • 0.55A rated operational current

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| | <ul style="list-style-type: none">• 60kA rated short-circuit making capacity• 6kA rated breaking capacity |
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Data Sheet 4

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Weidmuller: Circuit Breaker, 120VAC, 5A Model Number: 7940102575</p> <p>Tags/Service: CB4202 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • Hydraulic magnetic type circuit breaker • 5A current rating • 10kA interrupting capacity • 100MΩ insulation resistance • 10000 mechanical operations operating life • -40...65° C operating temperature • 20in.-lb tightening torque
1	<p>Mfg: Weidmuller: Circuit Breaker, 120VAC, 1A Model Number: 7940125379</p> <p>Tags/Service: CB4202A / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • Hydraulic magnetic type circuit breaker • 1A current rating • 10kA interrupting capacity • 100MΩ insulation resistance

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| | <ul style="list-style-type: none">• 10000 mechanical operations operating life• -40...65° C operating temperature• 20in.-lb tightening torque |
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Data Sheet 5

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
9	<p>Mfg: Schneider Electric: Miniature Relay, 120VAC, 8 Blade Model Number: RXM2AB2F7</p> <p>Tags/Service: CR4209, CR4210, CR4223, CR4225, CR4226, CR4306, CR4310, CR4316, CR4317 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • 2 C/O contact configuration • With status LED and lockable test button • 10A continuous output current • 12A conventional enclosed thermal current • 12A rated operational current • 100000 cycles resistive electrical durability • Silver nickel contacts material
9	<p>Mfg: Schneider Electric: Miniature Relay Socket, 8 Blade, DIN Model Number: RXZE2M114</p> <p>Tags/Service: CR4209, CR4210, CR4223, CR4225, CR4226, CR4306, CR4310, CR4316, CR4317 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • Compatible with RXM 2 C/O • 10A conventional free air thermal current

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| | <ul style="list-style-type: none">• < 300 V UL rated operational voltage• Flat pin shape• < 1 Nm M3 tightening torque |
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Data Sheet 6

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Schneider Electric: Miniature Relay, 120VAC, 11 Blade Model Number: RXM3AB2F7</p> <p>Tags/Service: CR4301 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • 3 C/O contact configuration • With status LED and lockable test button • 6.7A continuous output current • 10A conventional enclosed thermal current • 10A rated operational current • 100000 cycles resistive electrical durability • Silver nickel contacts material
1	<p>Mfg: Schneider Electric: Miniature Relay Socket, 11 Blade, DIN Model Number: RXZE2S111M</p> <p>Tags/Service: CR4301 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • Compatible with RXM 3 C/O • 10A conventional free air thermal current • < 300 V UL rated operational voltage • Flat pin shape

	• < 1 Nm M3 tightening torque
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Data Sheet 7

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Square D: Timing Relay, 0-10 min, 120VAC, 8 Pin Octal, DPDT Model Number: 9050JCK16V20</p> <p>Tags/Service: TR4224 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • 0.1...10 min timing range • 2VA power consumption • 10A operational current rating • DPDT, 2 NO + 2 NC contact composition • Silver nickel contact material
1	<p>Mfg: Square D: Timing Relay Socket, 8 Pin, DIN Model Number: 8501NR51</p> <p>Tags/Service: TR4224 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 120VAC operational voltage • 15A rated current • Single tiered screw clamp terminal electrical connection

Data Sheet 8

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
<u>Qty</u>	<u>Description</u>
2	<p>Mfg: Diversified: Isolated Switch, 2 Channel Model Number: ISO-120-AAE</p> <p>Tags/Service: ISR4206, ISR4220 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• 120VAC control voltage, 2 channel• 2.5VA power consumption• 20 million operations mechanical life expectancy• 50,000 operations at rated load electrical life expectancy• -4° to 131° F operational temperature rating• -40° to 185° F storage temperature rating• Style "E" Lexan® surface mounted

Data Sheet 9

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: Eaton: Alternating Relay Model Number: D851LA</p> <p>Tags/Service: AR4315 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • SPDT contact • With ALTERNATE, LOAD A, LOAD B selector switcht • 120VAC control voltage • Less than 3VA load • 10,000,000 operations mechanical life expectancy • 100,000 operations electrical life • -20° to 150° F operating temperature range • 2 indicator LEDs for LOAD A and LOAD B
1	<p>Mfg: Eaton: Alternating Relay Socket Model Number: D3PA2</p> <p>Tags/Service: AR4315 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • General-purpose relay socket • D3 series socket • DIN rail mounted socket • 10/15A nominal rated operational current • Screw clamping wiring connection

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Data Sheet 10

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
1	<p>Mfg: SCE: Enclosure Heater Model Number: SCE-TSH25</p> <p>Tags/Service: HTR4202 / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • DIN rail clip for 35mm DIN rail • Designed for protection from low temperatures, condensation, and corrosion • Touch safe with 2 screw terminal for standard AWG 14 wire • 120VAC operational voltage
1	<p>Mfg: Finder: Enclosure Heater Thermostat, NC Model Number: 7T.81.0.000.2403</p> <p>Tags/Service: THERMOSTAT / Secondary Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • -45...80° C ambient temperature range • 1 NC contact configuration • 10A rated current for contacts • 0...60° C temperature control range

Data Sheet 11

Customer:	Johnston Construction
Reference:	Charles County Pomonkey Pump Station Improvements
Date:	01/26/2026
Qty	Description
A/R	Mfg: Phoenix Contact: Terminal Block Model Number: 3044076
A/R	Mfg: Phoenix Contact: Grounding Terminal Block Model Number: 3044092
A/R	Mfg: Phoenix Contact: Terminal End Barrier Model Number: 3047028
A/R	Mfg: Phoenix Contact: Terminal Anchor Model Number: 0800886 Tags / Service: TB-AC, TB-ISB / Secondary Control Panel Specifications: <ul style="list-style-type: none">• Feed through and grounding terminals• Screw clamps• End plates and anchors• DIN rail mount

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Drawings Index:

Drawing Number	Drawing Description
D32384-40	ENCLOSURE EXT. LAYOUT
D32384-41	ENCLOSURE INT. LAYOUT
D32384-42	120VAC WIRING DIAGRAM
D32384-43	120VAC WIRING DIAGRAM

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Drawings: