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CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

SECONDARY FAN 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

CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

Table of Contents

Comments

Parts Index

Data Sheets

Drawing Index

Drawings

CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

General Comments:

1. The wiring schematics assume a $\frac{1}{4}$ HP motor with an FLA of 5.8. Please verify and confirm the motor nameplate details for the secondary fan motor.

Parts Index:

| SHT | MANUFACTURER | MODEL | DESCRIPTION |
|-----|--------------------|------------------|------------------------------------------|
| 1 | SCE | SCE-16H1606SS6LP | Wall Mount Enclosure - NEMA 4X |
| 1 | SCE | SCE-16P16 | Enclosure Back Panel |
| 1 | SCE | SCE-BVKD | NEMA 4X VENT/DRAIN |
| 2 | Schneider Electric | 9001SKT38LGG31 | PTT Light, 120VAC LED, Green |
| 2 | Schneider Electric | 9001SKT38LRR31 | PTT Light, 120VAC LED, Red |
| 2 | Schneider Electric | 9001SKT38LYA31 | PTT Light, 120VAC LED, Amber |
| 3 | Schneider Electric | XB4BA922 | Manual Overload Reset Pushbutton |
| 4 | Schneider Electric | 9001SKS43BH13 | 3 Position Switch, Black |
| 5 | Square D | BGL26015 | Main Circuit Breaker, 15A |
| 6 | Weidmuller | 7940102572 | Circuit Breaker, 120VAC, 2A |
| 7 | Square D | 8536-SAO11V02ES | NEMA Motor Starter / Overload |
| 7 | Square D | B9.10 | Thermal Motor Overload |
| 9 | Square D | 9050JCK70V20 | Repeat Cycle Timer, 0.5 Sec to 999 Hours |
| 9 | Square D | 8501NR61 | RELAY SOCKET, 120VAC, 11 PIN, DIN |
| 10 | Phoenix Contact | 3044076 | Terminal Block |
| 10 | Phoenix Contact | 3044092 | Grounding Terminal Block |
| 10 | Phoenix Contact | 3047028 | Terminal End Barrier |
| 10 | Phoenix Contact | 0800886 | Terminal Anchor |

CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

Data Sheet 1

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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-16H1606SS6LP</p> <p>Tags/Service: ENC / Secondary Fan 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 and water resistant gasket• Hasp and staple for padlocking• Stainless steel continuous hinges• Welded mounting provision top and bottom of back• #4 brushed finish on all exterior surfaces |
| 1 | <p>Mfg: SCE: Enclosure Back Panel Model Number: SCE-16P16</p> <p>Tags/Service: ENC / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• 13"H x 13"W x 0.10"D flat subpanel• Powder coated white finish |

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| 1 | <p>Mfg: SCE: NEMA 4X VENT/DRAIN Model Number: SCE-BVKD</p> <p>Tags/Service: DRAIN / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Drain and breather vent kit• Made of corrosion and UV resistant polycarbonate material• NEMA 4X rated• 10 in·lb installation torque |
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Data Sheet 2

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| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Green Model Number: 9001SKT38LGG31</p> <p>Tags/Service: LT5208 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Plastic bezel material• 120VAC rated supply voltage• 1 C/O contact composition• 5000000 cycle mechanical durability• 0.55A rated operational current• Silver alloy contact material• 60kA, 7200VA rated short-circuit making capacity• 6kA, 720VA rated breaking capacity• Green fresnel polycarbonate lens• Green LED |
| 1 | <p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Red Model Number: 9001SKT38LRR31</p> <p>Tags/Service: LT5209 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Plastic bezel material• 120VAC rated supply voltage• 1 C/O contact composition |

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| | <ul style="list-style-type: none"> • 5000000 cycle mechanical durability • 0.55A rated operational current • Silver alloy contact material • 60kA, 7200VA rated short-circuit making capacity • 6kA, 720VA rated breaking capacity • Red fresnel polycarbonate lens • Red LED |
| 1 | <p>Mfg: Schneider Electric: PTT Light, 120VAC LED, Amber Model Number: 9001SKT38LYA31</p> <p>Tags/Service: LT5210 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Plastic bezel material • 120VAC rated supply voltage • 1 C/O contact composition • 5000000 cycle mechanical durability • 0.55A rated operational current • Silver alloy contact material • 60kA, 7200VA rated short-circuit making capacity • 6kA, 720VA rated breaking capacity • Amber fresnel polycarbonate lens • Yellow LED |

Data Sheet 3

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|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Schneider Electric: Manual Overload Reset Pushbutton Model Number: XB4BA922</p> <p>Tags/Service: RESET / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Chromium plated metal bezel• Zamak fixing collar material• Black flush, unmarked operator profile• 5.1...10.1" activating distance• NEMA 4X degree of protection• TH protective treatment |

Data Sheet 4

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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Schneider Electric: 3 Position Switch, Black Model Number: 9001SKS43BH13</p> <p>Tags/Service: SS5205 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Black standard knob operator profile• Stay put operator• 1 C/O contact composition• NEMA 4X degree of protection |

Data Sheet 5

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| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Square D: Main Circuit Breaker, 15A Model Number: BGL26015</p> <p>Tags/Service: CB5201 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• 15A line rated current• 2 pole circuit breaker• Toggle control type• 65kA breaking capacity• 65kA rated service breaking capacity• Thermal-magnetic trip unit technology• 80% continuous current rating• 20000 cycle mechanical durability• 10000 cycle electrical durability |

Data Sheet 6

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| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Weidmuller: Circuit Breaker, 120VAC, 2A Model Number: 7940102572</p> <p>Tags/Service: CB5204 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• 120VAC operating voltage• 2A current rating• 10kA interrupting capacity• 100MΩ insulation resistance• 10000 mechanical operations operating life• -40...65°C operating temperature range |

Data Sheet 7

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|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Square D: NEMA Motor Starter / Overload Model Number: 8536-SAO11V02ES</p> <p>Tags/Service: M5205 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Non-reversing starter type• NEMA size 00• 9A rated current• 0.33HP at 115VAC• 120VAC 60 Hz coil voltage• Open enclosure type |
| 1 | <p>Mfg: Square D: Thermal Motor Overload Model Number: B9.10</p> <p>Tags/Service: OL5201 / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• Class 20 motor tripping class• Melting alloy thermal overload type |

Data Sheet 9

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| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 1 | <p>Mfg: Square D: Repeat Cycle Timer, 0.5 Sec to 999 Hours Model Number: 9050JCK70V20</p> <p>Tags/Service: RCT / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• 120VAC operating voltage• 0.5 second to 999 hour programmable timing range• 3 VA power burden• 10 million mechanical operations operating life• 100,000 electrical operations operating life• Silver nickel contact material |
| 1 | <p>Mfg: Square D: RELAY SOCKET, 120VAC, 11 PIN, DIN Model Number: 8501NR61</p> <p>Tags/Service: RCT / Secondary Fan Control Panel</p> <p>Specifications:</p> <ul style="list-style-type: none">• DIN rail mounted relay socket• Single tiered screw clamp terminal electrical connection• 15A rated at 300VAC |

Data Sheet 10

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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer: | Johnston Construction |
| Reference: | Charles County Pomonkey Pump Station Improvements |
| Date: | 01/26/2026 |
| <u>Qty</u> | <u>Description</u> |
| 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 / Secondary Fan Control Panel Specifications: <ul style="list-style-type: none">• Feed through and grounding terminals• Screw clamps• End plates and anchors• DIN rail mount |

CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

Drawings Index:

| Drawing Number | Drawing Description |
|----------------|------------------------------------------------------|
| D32384-50 | POMONKEY PS SFAN CONTROL PANEL EXTERIOR PANEL LAYOUT |
| D32384-51 | POMONKEY PS SFAN CONTROL PANEL INTERIOR PANEL LAYOUT |
| D32384-52 | POMONKEY PS SFAN CONTROL PANEL 120VAC WIRING DIAGRAM |

CHARLES COUNTY POMONKEY PUMP STATION IMPROVEMENTS

Drawings: