

NOTES:

- G1. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. SEE SPECS.

G2. COORDINATE WORK WITH OTHER TRADES AND SITE CONDITIONS.

G3. WHERE CONDUCTOR SIZE IS SHOWN FOR CIRCUIT, IT SHALL BE MAINTAINED FOR ENTIRE CIRCUIT.

G4. ALL CONDUITS INSTALLED EXPOSED TO ATMOSPHERE SHALL BE ALUMINUM RIGID CONDUIT (ARC), ALL CONDUITS INSTALLED BELOW GRADE AND WHERE NOTED SHALL BE SCH.80 PVC. MINIMUM BURIAL DEPTH TO BE 24".

G5. SEAL ALL CONDUITS ENTERING PANELS WITH DUCT SEAL.

G6. THE EXACT LOCATION OF THE EXISTING METER AND SERVICE SHALL BE FIELD DETERMINED FOR EACH SITE. ALL WORK INVOLVING THE METER AND/OR THE SERVICE SHALL BE FIELD COORDINATED WITH THE UTILITY COMPANY AND WITH OTHER WORK ON THE PROJECT SITE. CONTACT GREG MCCRANIE, DISTRIBUTION ENGINEER, GEORGIA POWER (912) 267-5127.

G7. ALL ELEVATION DIMENSION SHALL BE MEASURED FROM TOP OF CONCRETE SLAB OR FINISHED GRADE: CIRCUIT BREAKER AND SWITCH OPERATING HANDLES, CONTROL PADS AND USER INTERFACE PANELS, SHALL BE A MAXIMUM OF 66". TOP OF EQUIPMENT SHALL NOT EXCEED 90", BOTTOM OF EQUIPMENT SHALL NOT BE LESS THAN 30", WIRING TROUGH SHALL NOT BE LESS THAN 8" ABOVE GRADE. FIELD COORDINATE ELEVATIONS OF EQUIPMENT. IMMEDIATELY BRING CONFLICTS TO THE ATTENTION OF THE ENGINEER.

G8. COORDINATE LOCATION AND POSITION ELECTRICAL EQUIPMENT WITH THE OWNER FOR BEST ACCESS TO ELECTRICAL EQUIPMENT.

G9. THE SCADA SYSTEM AT EACH SITE IS EXISTING. EXTEND 1"C W/CONDUCTORS AS REQUIRED FROM THE ATS TO THE SCADA PANEL FOR TRANSMISSION OF ALARM AND CONTROL SIGNALS.

G10. THE FUSED SWITCH SHALL BE U.L. APPROVED FOR USE AS SERVICE ENTRANCE EQUIPMENT, WITH INSULATED BONDED NEUTRAL. BOND GROUNDING ELECTRODE CONDUCTOR AND NEUTRAL, PROVIDE SEPARATE MECHANICAL LUG TERMINATIONS FOR EACH CONDUCTOR. CONNECT EQUIPMENT GROUNDING CONDUCTOR WITH MECHANICAL LUG ATTACHED TO ENCLOSURE. PROVIDE CURRENT LIMITING FUSES.

G11. ALL ATTACHMENT HARDWARE SHALL BE 316 STAINLESS STEEL (I.E. CONDUIT CLAMPS NUTS, BOLTS AND WASHERS). PROVIDE ALUMINUM 1⁵/₈"X 1⁵/₈" CHANNEL (B-LINE B22 OR EQUAL).

G12. APPLY TWO COATS OF 3M SCOTCHRAP PIPE PRIMER AND TWO OVERLAPPING LAYERS OF 3M SCOTCHRAP 51 TAPE. APPLY FROM THE BOTTOM OF THE STRUCTURAL SUPPORT OR CONDUIT TO 6" ABOVE GRADE. APPLY TWO COATS OF 3M SCOTCHRAP PIPE PRIMER TO THE INTERIOR OF THE VERTICAL FRAME MEMBERS FOR 12" UP FROM THE BOTTOM.

G13. FOR STATIONS WITH EXISTING DIESEL BYPASS PUMPS: THE PUMP STATION SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDE FUEL AS REQUIRED FOR THE BYPASS PUMP WHILE THE ELECTRICAL SYSTEM IS UNAVAILABLE DUE TO THE WORK. COORDINATE WITH THE OWNER FOR EXTENDED USE OF THE BYPASS PUMP.

G14. FOR STATIONS WITHOUT BYPASS PUMPS: THE PUMP STATION SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDE A DIESEL BYPASS PUMP WHILE THE ELECTRICAL SYSTEM IS UNAVAILABLE DUE TO THE WORK. THE BYPASS PUMP SHALL BE IN OPERATION THROUGHOUT THE OUTAGE.

G15. A NEW GROUNDING DELTA SHALL BE PROVIDED AT EACH SITE. REFER TO EACH PLAN SHEET FOR REQUIRED GEC SIZE. INSTALL DELTA PER DETAIL 1/E0.2.
- G16. THE AUTOMATIC TRANSFER SWITCH AND GENERATOR DOCKING STATION MAY BE CONSOLIDATED INTO A SINGLE UNIT. THE CONTRACTOR SHALL PROVIDE ALTERNATE PRICING FOR THE CONSOLIDATED EQUIPMENT, INCLUDING BOTH MATERIAL AND INSTALLATION COST.

G17. FOR EXISTING METER, ENCLOSED BREAKER, FUSED SWITCH, CONTROL PANEL, ETC. ENCLOSURES, PROVIDE NEMA 4X STAINLESS STEEL HOLE SEALS IN ALL UNUSED PENETRATIONS.

G18. PROVIDE CORROSION INHIBITOR ON ALL ELECTRICAL TERMINATIONS. FURNISH IDEAL INDUSTRIES NOALOX OR APPROVED EQUAL.

G19. PROVIDE ENGRAVED NAMEPLATES FOR ALL EQUIPMENT INSTALLED UNDER THIS PROJECT. INCLUDE NAME OF EQUIPMENT, VOLTAGE, PHASE, AMPACITY, ETC.
EXAMPLE: AUTOMATIC TRANSFER SWITCH
400A 480Y/277V
3-PHASE, 4-WIRE

G20. FOR STATIONS UNDERGOING REHABILITATION BY BGCSWSA: THE CONTRACTOR SHALL FIELD COORDINATE INSTALLATION OF THE TRANSFER SWITCH AND DOCKING STATION WITH THE OWNER. THE CONTRACTOR SHALL FURNISH AND INSTALL THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION, AND INSTALL CONNECTING CONDUIT AND WIRING. TEST AND DEMONSTRATE SATISFACTORY OPERATION BEFORE FINAL ACCEPTANCE.

Brunswick-Glynn County Joint
Water & Sewer Commission
11703 Gloucester Street
Brunswick, Georgia 31520



IFB NO. 20-032
Automatic Transfer Switch
& Docking Station
GEMA Grant Project



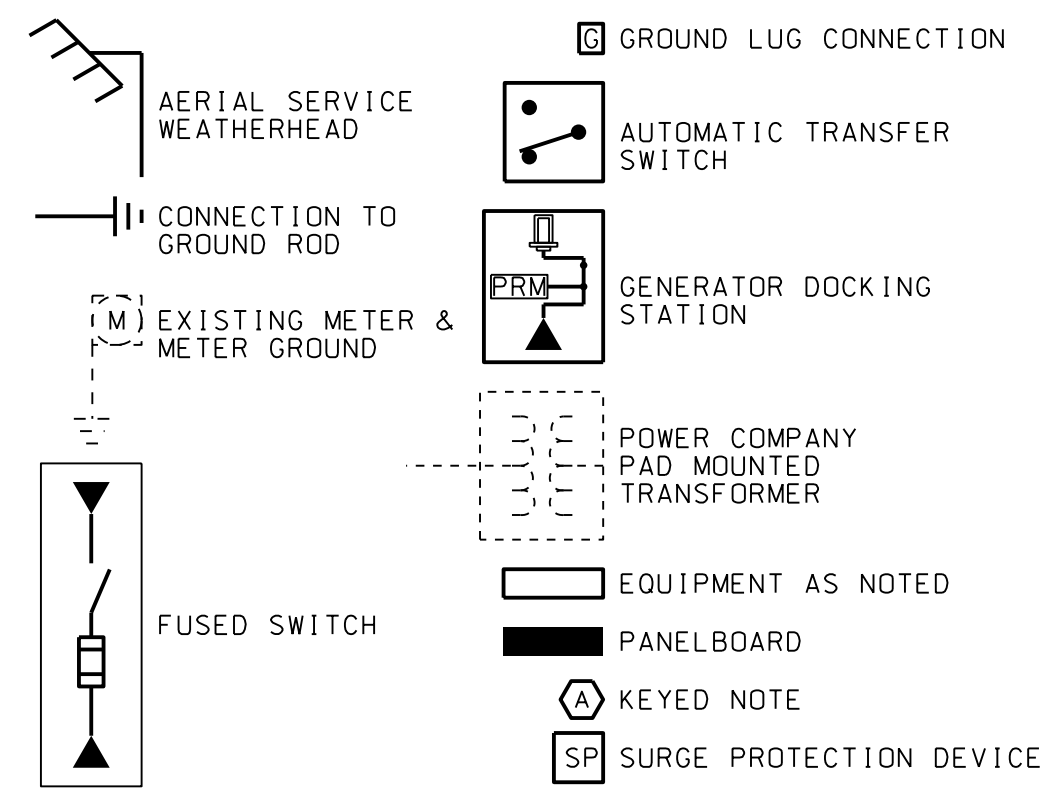
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109 Park of Commerce Dr
Suite 6
Savannah, Georgia 31405
912-238-2400
www.chathamengineering.com

ELECTRICAL NOTES
& GROUNDING DETAIL

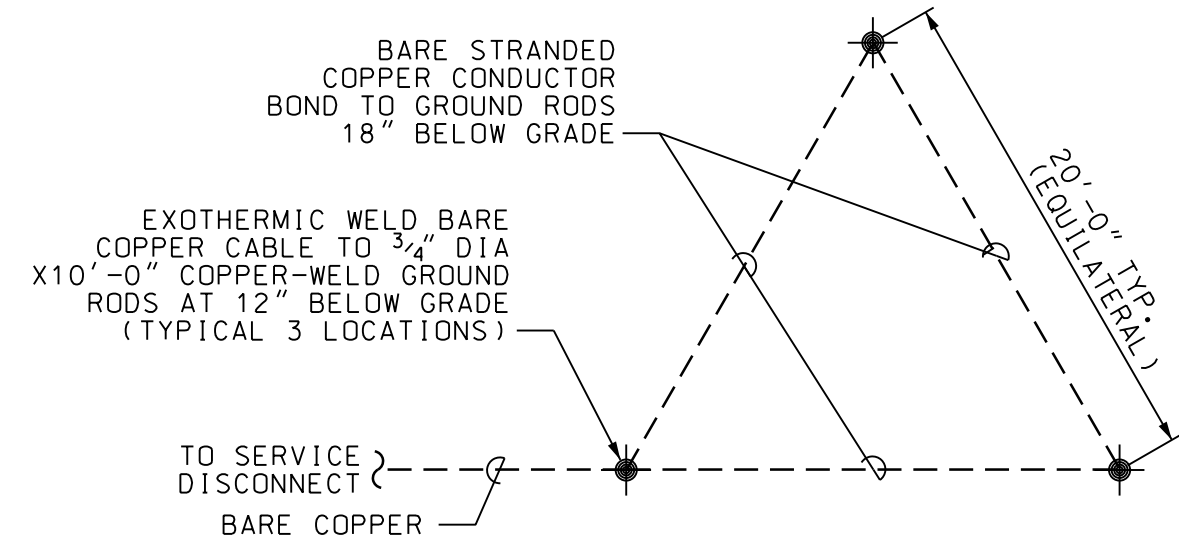
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E:\BGCJWSC GEMA Funded Transfer Switches & Generator Connection - 20102.00\CADD\E0.1.dgn

LEGEND & ABBREVIATIONS



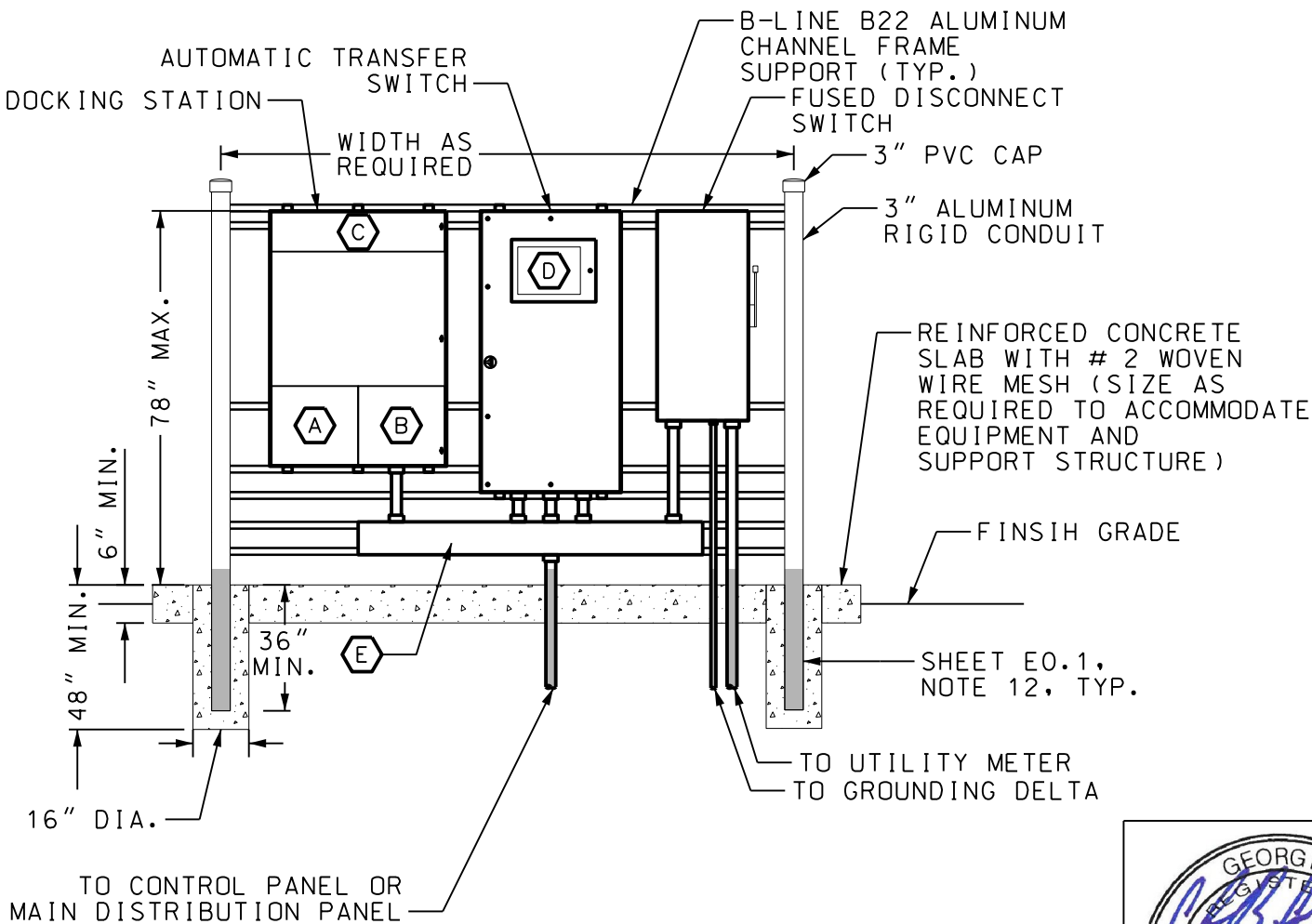
GEC: GROUNDING ELECTRODE CONDUCTOR
EGC: EQUIPMENT GROUNDING CONDUCTOR
GF: GROUND FAULT PROTECTION
WP: WEATHER PROOF
PRM: PHASE ROTATION MONITOR
MTD: MOUNTED
M.B.: MAIN BREAKER
MDP: MAIN DISTRIBUTION PANEL
SPD: SURGE PROTECTION DEVICE



1 SERVICE GROUNDING ELECTRODE SYSTEM
E0.2 SCALE: NONE

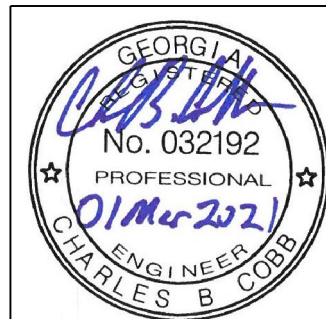
KEYED NOTES:

- (A) CABLE CONNECTION COMPARTMENT
- (B) CONDUIT ENTRY AREA
- (C) DUPLEX RECEPTACLE, PHASE ROTATION MONITOR, TERMINAL STRIP AS NOTED ON PLAN FOR EACH DOCKING STATION
- (D) SUN SHIELD & CONTROLLER/USER INTERFACE
- (E) NEMA 4X ALUMINUM WIRING TROUGH, 6" X 6" MINIMUM, LENGTH AS REQUIRED. SIZE TROUGH PER NEC

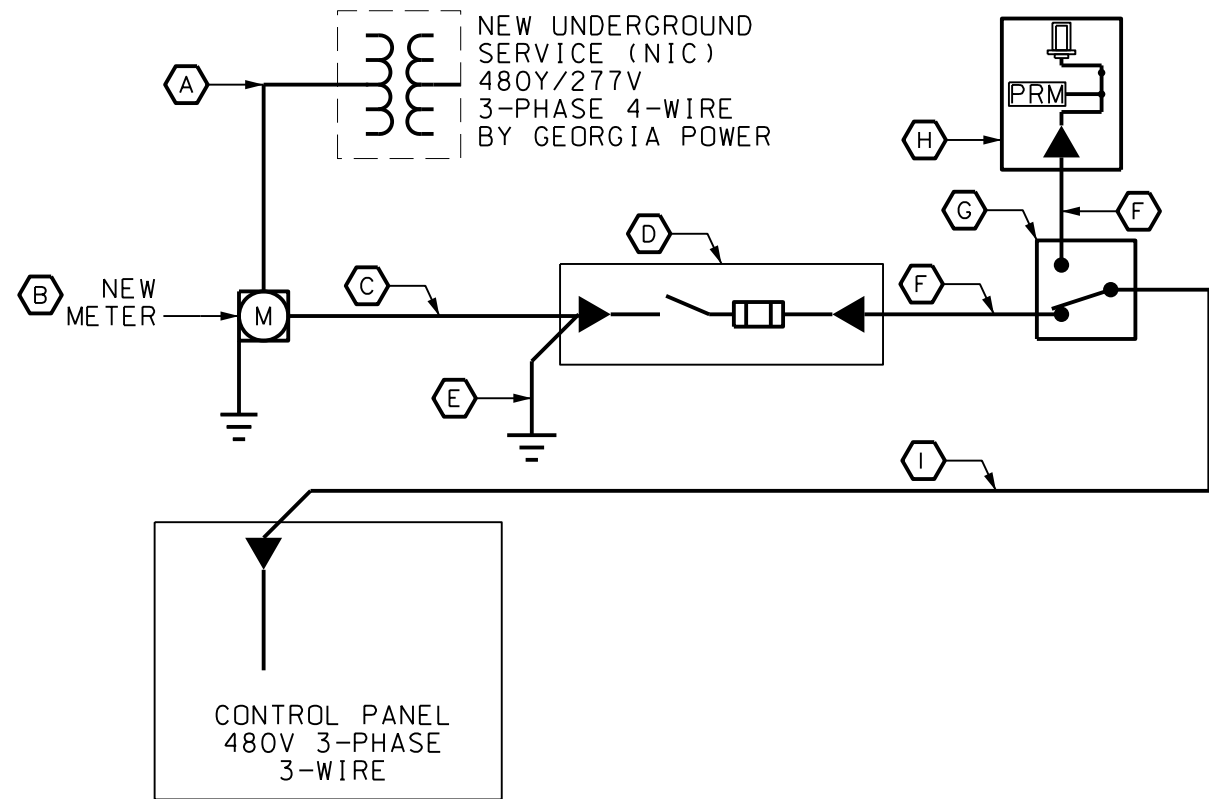


2 EQUIPMENT FRAME ELEVATION
E0.2 SCALE: NONE



IFB NO. 20-032 AUTOMATIC TRANSFER SWITCHES (ATS) FOR JWSC LIFT STATIONS											
Station No. & Location		Utility & Service				Service Disconnect					
NUMBER	LOCATION/ADDRESS	Utility Meter Number	Service Method	Utility Transformer	Service Voltage	Amperage Rating	Replacement Required	Equipment Rack	Comments		
2001	350 Lord Avenue, St. Simons Island, GA 31522	GA PWR 3252032	UNDERGROUND	PMT	480Y/277V 3-PHASE 4-WIRE	200A/3P/4XSS/200AF FUSED SWITCH	YES	TBD	STATION TO BE REHABILITATED BY BGCJWSC, NOTE G20		
2002	440 Arnold Road, St. Simons Island, GA 31522	GA PWR 32588773	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	200A/3P/4XSS/200AF FUSED SWITCH	YES	TBD	STATION TO BE REHABILITATED BY BGCJWSC, NOTE G20		
2005	117 Worthing Road, St. Simons Island, GA 31522	GA PWR 3533100	UNDERGROUND FROM AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/100AF FUSED SWITCH	YES	WELDED ALUMINUM	FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
2008	10 Black Banks Drive, St. Simons Island, GA 31522	GA PWR 5564227	AERIAL	POLE BANK	240/120V 1-PHASE 3-WIRE	200A/2P/4XSS/70AF FUSED SWITCH	YES	WELDED ALUMINUM	REUSE EXISTING SPD; FURNISH NEW EQUIPMENT RACK FOR ATS AND DOCKING STATION		
2011	556 Windward Drive, St. Simons Island, GA 31522	GA PWR 3145552	UNDERGROUND FROM AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/125AF FUSED SWITCH	YES	WELDED ALUMINUM	FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
2013	1602 East Beach Causeway, St. Simons Island, GA 31522	GA PWR 3319545	AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/100AF FUSED SWITCH	YES	WELDED ALUMINUM	REUSE EXISTING SPD; FURNISH NEW EQUIPMENT RACK FOR ATS AND DOCKING STATION		
2022	225 Dunbarton Rd., St. Simons Island, GA 31522	GA PWR 3349326	UNDERGROUND	PMT	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/70AF FUSED SWITCH	YES	WELDED ALUMINUM	REUSE EXISTING SPD; FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
2033	2913 Lawrence Road, St. Simons Island, GA 31522	GA PWR 3517039	AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	400A/3P/4XSS/250AF FUSED SWITCH	YES	WELDED ALUMINUM	PROVIDE NEW SPD; FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
2039	130 Rosemont Street, St. Simons Island, GA 31522	GA PWR 5871624	UNDERGROUND	PMT	240/120V 1-PHASE 3-WIRE	200A/2P/4XSS/150AF FUSED SWITCH	YES	WELDED ALUMINUM	PROVIDE NEW SPD; FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
2056	1305 Lawrence Road, St. Simons Island, GA 31522	GA PWR 3538435	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	200A/3P/4XSS/200AF FUSED SWITCH	YES	TBD	STATION TO BE REHABILITATED BY BGCJWSC, NOTE G20		
2062	119 Marshes Edge Lane, St. Simons Island, GA 31522	GA PWR 3532370	UNDERGROUND	PMT	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/150AF FUSED SWITCH	YES	STEEL PIPE	FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION		
Brunswick-Glynn County Joint Water & Sewer Commission 11703 Gloucester Street Brunswick, Georgia 31520				IFB NO. 20-032 Automatic Transfer Switch & Docking Station GEMA Grant Project		 Chatham Engineering 109 Park of Commerce Dr Suite 6 Savannah, Georgia 31405 912-238-2400 www.chathamengineering.com		STATION SCHEDULE		DESIGNED: CC DRAWN: LC REVIEWED: PM APPROVED: CC	SCALE: N.T.S. DATE: 01-MAR-2021 SHEET NUMBER: E0.3
											

IFB NO. 20-032 AUTOMATIC TRANSFER SWITCHES (ATS) FOR JWSC LIFT STATIONS									
Station No. & Location		Utility & Service				Service Disconnect			
NUMBER	LOCATION/ADDRESS	Utility Meter Number	Service Method	Utility Transformer	Service Voltage	Amperage Rating	Replacement Required	Equipment Rack	Comments
4006	3700 Altama Avenue, Brunswick, GA 31525	GA PWR 3331013	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	600A/3P/4XSS/600AF FUSED SWITCH	YES	NEW AL CHANNEL ON BLDG	PROVIDE NEW ALUMINUM CHANNEL RACK ON BUILDING FOR FUSED SWITCH, ATS AND DOCKING STATION
4015	4000 Riverside Drive, Brunswick, GA 31520	GA PWR 3549473	UNDERGROUND FROM AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/80AF FUSED SWITCH	YES	STEEL PIPE	FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION
4016	209 Norman Street, Brunswick, GA 31520	GA PWR 3253246	AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/100AF FUSED SWITCH	YES	STEEL PIPE	FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION
4021	4727 Altama Avenue, Brunswick, GA 31520	GA PWR 3450308	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	200A/3P/3R/200AF FUSED SWITCH	NO	STEEL PIPE	STATION TO BE REHABILITATED BY BGCJWSC, NOTE G20
4027	167 Stafford Avenue, Brunswick, GA 31525	GA PWR 3253404	AERIAL	POLE BANK	240/120V DELTA 3-PHASE 4-WIRE	200A/3P/4XSS/100AF FUSED SWITCH	YES	STEEL PIPE	FURNISH NEW EQUIPMENT RACK FOR ATS AND DOCKING STATION
4028	101 Oscar Lane, Brunswick, GA 31525	GA PWR 3338949	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	800A/3P/4XSS/800AF FUSED SWITCH	YES	NEW AL CHANNEL ON BLDG	PROVIDE NEW ALUMINUM CHANNEL RACK ON BUILDING FOR FUSED SWITCH, ATS AND DOCKING STATION
4035	3850 Ross Road, Brunswick, GA 31520	GA PWR 3237326	UNDERGROUND FROM AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	600A/3P/4XSS/600AF FUSED SWITCH	NO	NEW AL CHANNEL ON BLDG	PROVIDE NEW ALUMINUM CHANNEL RACK ON BUILDING FOR FUSED SWITCH, ATS AND DOCKING STATION, NOTE G20
4036	1253 B & W Grade Road, Brunswick, GA 31520	GA PWR 3234842	UNDERGROUND	PMT	480Y/277V 3-PHASE 4-WIRE	600A/3P/4XSS/600AF FUSED SWITCH	NO	NEW AL CHANNEL ON BLDG	PROVIDE NEW ALUMINUM CHANNEL RACK ON BUILDING FOR FUSED SWITCH, ATS AND DOCKING STATION, NOTE G20
4039	150 Indigo Drive, Brunswick, GA 31525	GA PWR 3204680	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	400A/3P/4XSS/225AF FUSED SWITCH	YES	NEW AL CHANNEL RACK	PROVIDE NEW FREE STANDING ALUMINUM CHANNEL RACK FOR ATS AND DOCKING STATION. FUSED SWITCH SHALL BE MOUNTED ON EXISTING SERVICE POLE
4048	3983 Darien Highway, Brunswick, GA 31525	GA PWR 3332358	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	400A/3P/4XSS/400AF FUSED SWITCH	YES	NEW AL CHANNEL RACK	PROVIDE NEW FREE STANDING ALUMINUM CHANNEL RACK FOR FUSED SWITCH, ATS AND DOCKING STATION.
4127	101 River Ridge Road, Brunswick, GA 31523	GA PWR 3537903	AERIAL	POLE BANK	480Y/277V 3-PHASE 4-WIRE	200A/3P/3R/200AF FUSED SWITCH	YES	WELDED ALUMINUM	PROVIDE NEW SPD; FIELD COORDINATE ARRANGEMENT OF NEW SWITCH, ATS & DOCKING STATION
Brunswick-Glynn County Joint Water & Sewer Commission 11703 Gloucester Street Brunswick, Georgia 31520  IFB NO. 20-032 Automatic Transfer Switch & Docking Station GEMA Grant Project  Chatham Engineering 109 Park of Commerce Dr Suite 6 Savannah, Georgia 31405 912-238-2400 www.chathamengineering.com STATION SCHEDULE DESIGNED: CC DRAWN: LC REVIEWED: PM APPROVED: CC SCALE: N.T.S. DATE: 01-MAR-2021 SHEET NUMBER: E0.4									



KEYED NOTES:

- (A) NEW UNDERGROUND SERVICE BY GEORGIA POWER
- (B) METER PER GEORGIA POWER REQUIREMENTS. NOTE G6, G17
- (C) SERVICE FROM METER TO SWITCH 2 1/2" C W/4NO.3/0
- (D) SERVICE DISCONNECT: 200A/3P/4XSS/200AF FUSED SWITCH
- (E) GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (F) FEEDER: 2 1/2" C W/4NO.3/0 1NO.6(G)
- (G) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16, G20.
- (H) 200A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16, G20.
- (I) FEEDER: 2 1/2" C W/3NO.3/0 1NO.6(G)

NOTES:

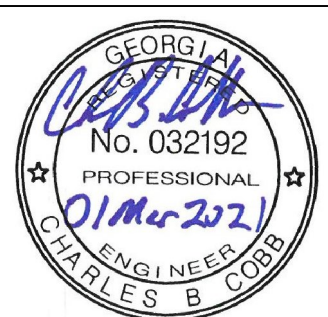
1. THE PUMP STATION IS SCHEDULED TO BE REHABILITATED BY BGCJWSA. COORDINATE WITH THE OWNER FOR EQUIPMENT LOCATION AND ARRANGEMENT. THE CONTRACTOR SHALL INSTALL AND CONNECT THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION PER THE ONE-LINE DIAGRAM. NOTE G20.
2. THE OWNER SHALL PERFORM ALL OTHER WORK ON THE SITE WITH RESPECT TO THE NEW ELECTRICAL SYSTEM, INCLUDING THE NEW EQUIPMENT RACK.

1 ONE-LINE DIAGRAM

E2.1

SCALE: NONE

NOTES G6, G14, G15, G16, G17



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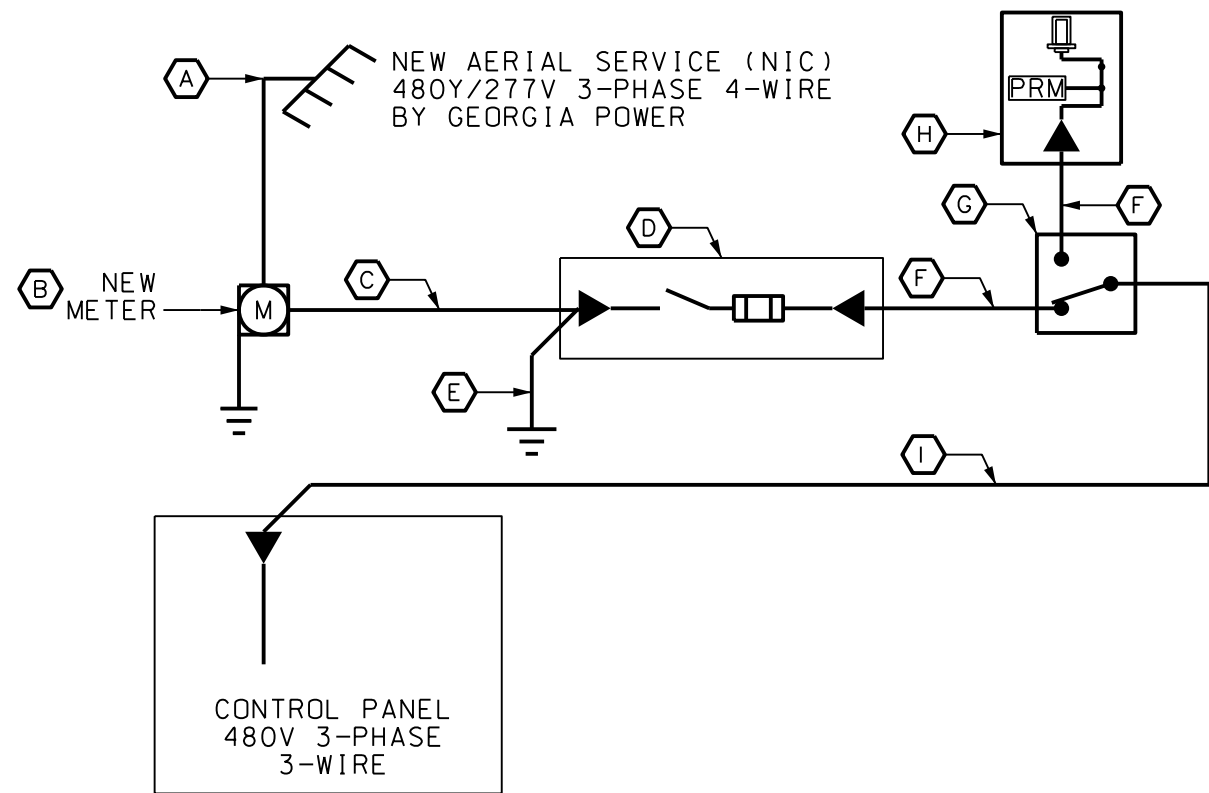
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PS 2001 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

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KEYED NOTES:

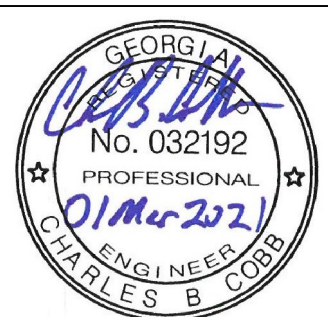
- (A) NEW AERIAL SERVICE BY GEORGIA POWER
- (B) METER PER GEORGIA POWER REQUIREMENTS. NOTE G6, G17
- (C) SERVICE FROM METER TO SWITCH
2 1/2" C W/4NO. 3/0
- (D) SERVICE DISCONNECT: 200A/
3P/4XSS/200AF FUSED SWITCH
- (E) GEC. 3/4" SCH 80 PVC W/1NO. 4(G)
TO NEW GROUNDING DELTA, NOTE G15
- (F) FEEDER: 2 1/2" C W/4NO. 3/0
1NO. 6(G)
- (G) NEW AUTOMATIC TRANSFER SWITCH
200A/3P/4XSS, NOTE G16, G20.
- (H) 200A/3P/4W/4X SS 480Y/277V TRYSTAR
DOCKING STATION WITH PHASE ROTATION
MONITOR AND MALE CAM-LOK CONNECTIONS.
NOTE G16, G20.
- (I) FEEDER: 2 1/2" C W/3NO. 3/0
1NO. 6(G)

NOTES:

1. THE PUMP STATION IS SCHEDULED TO BE REHABILITATED BY BGCJWSA. COORDINATE WITH THE OWNER FOR EQUIPMENT LOCATION AND ARRANGEMENT. THE CONTRACTOR SHALL INSTALL AND CONNECT THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION PER THE ONE-LINE DIAGRAM. NOTE G20.
2. THE OWNER SHALL PERFORM ALL OTHER WORK ON THE SITE WITH RESPECT TO THE NEW ELECTRICAL SYSTEM, INCLUDING THE NEW EQUIPMENT RACK.

1 ONE-LINE DIAGRAM

E2.2 SCALE: NONE



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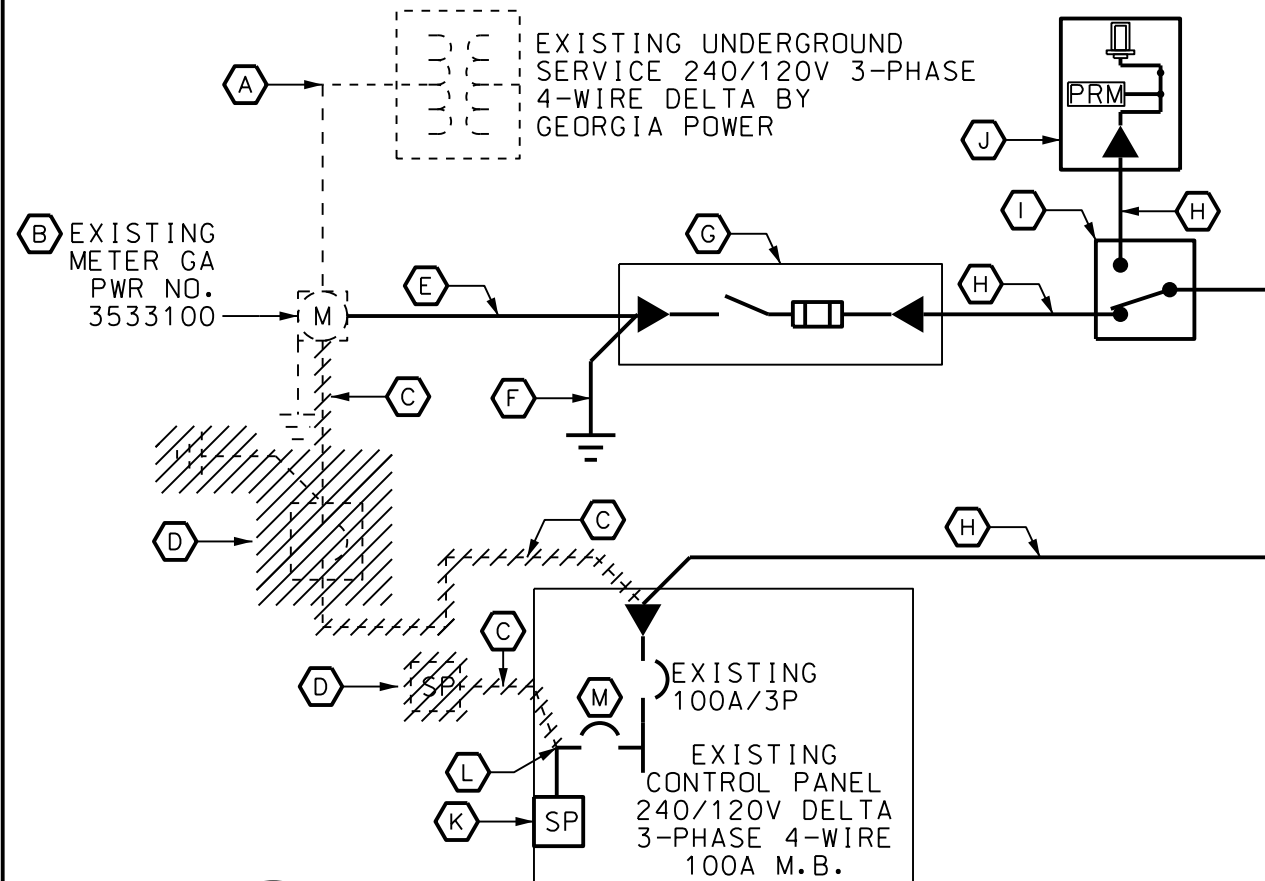
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Savannah, Georgia 31405
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PS 2002 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

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APPROVED: CC	E2.2



1 ONE-LINE DIAGRAM

E2.3 SCALE: NONE NOTES G6, G14, G15, G16, G17

KEYED NOTES:

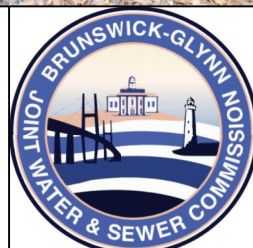
- (A) EXISTING UNDERGROUND SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6,G17
- (C) DEMOLISH SERVICE FROM METER TO ENCLOSED BREAKER TO CONTROL PANEL. DEMOLISH CONDUIT AND WIRE FROM THE CONTROL PANEL TO THE SURGE PROTECTION DEVICE.
- (D) DEMOLISH THE EXISTING ENCLOSED BREAKER AND SURGE PROTECTION DEVICE.
- (E) NEW SERVICE. 2 1/2" C W/ 4NO.3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/100AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/ 4NO.3/0, 1NO.6(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16.
- (J) 200A/3P/4W/4X SS 240/120V DELTA TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16.
- (K) NEW SURGE PROTECTION: SQUARE D SDSA SERIES. CAT. NO. SDSA2040D
- (L) CONDUCTORS FURNISHED WITH UNIT
- (M) NEW BREAKER: 15A/3P/10KAIC

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON THE EXISTING EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE NEW SURGE PROTECTION DEVICE WITHIN THE PUMP CONTROL PANEL.



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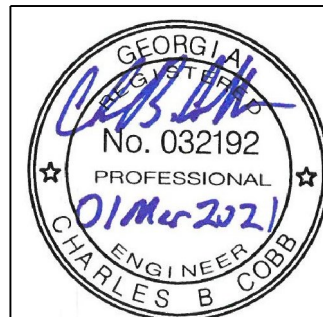


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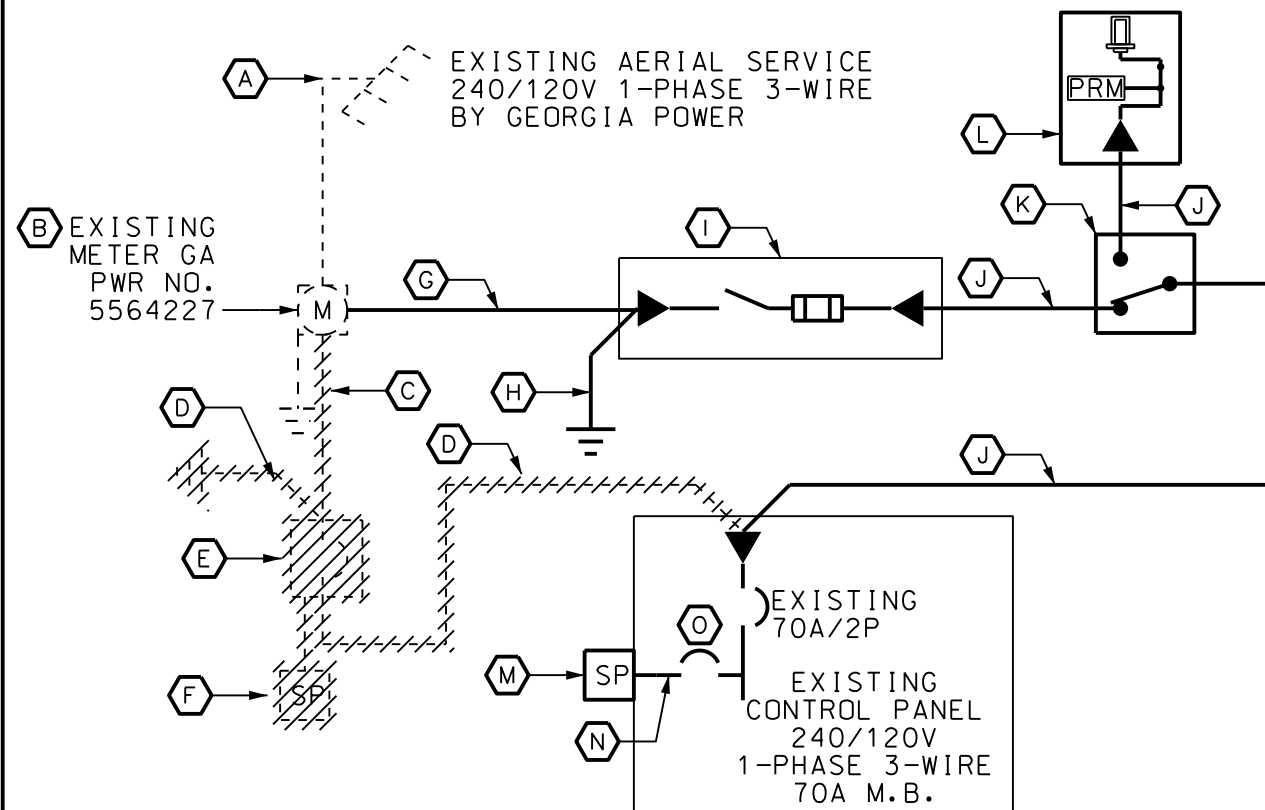


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PS 2005 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES



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1 ONE-LINE DIAGRAM

E2.4

SCALE: NONE

NOTES G6, G14, G15, G16, G17

KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE ENCLOSED BREAKER
- (D) DEMOLISH THE FEEDER FROM THE ENCLOSED BREAKER TO THE PUMP CONTROL PANEL
- (E) DEMOLISH THE EXISTING ENCLOSED BREAKER
- (F) DISCONNECT THE EXISTING SURGE PROTECTION DEVICE, REMOVE THE CONDUIT AND CONDUCTORS
- (G) NEW SERVICE: 2 1/2" C W/ 4NO. 3/0
- (H) NEW GEC. 3/4" SCH 80 PVC W/ 1NO. 4(G) TO NEW GROUNDING DELTA, NOTE G15
- (I) NEW SERVICE DISCONNECT: 200A/ 2P/ 4XSS/ 70AF FUSED SWITCH
- (J) NEW FEEDER. 2 1/2" C W/ 3NO. 3/0, 1NO. 6(G)
- (K) NEW AUTOMATIC TRANSFER SWITCH 200A/ 2P/ 4XSS, NOTE G16
- (L) 200A/ 2P/ 3W/ 4X SS 240/ 120V 1-PHASE TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (M) INSTALL EXISTING SURGE PROTECTION DEVICE, NOTE 3
- (N) 1" C W/ 3NO. 8, 1NO. 8(G)
- (O) NEW BREAKER: 40A/ 2P/ 10KA IC

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON THE EXISTING EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE EXISTING SURGE PROTECTION DEVICE DIRECTLY TO THE SIDE OF THE PUMP CONTROL PANEL. PROVIDE A NEMA 4X STAINLESS STEEL HOLE SEAL FOR THE UNUSED OPENING.



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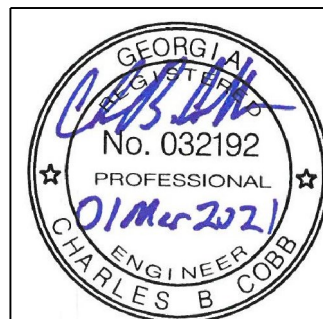


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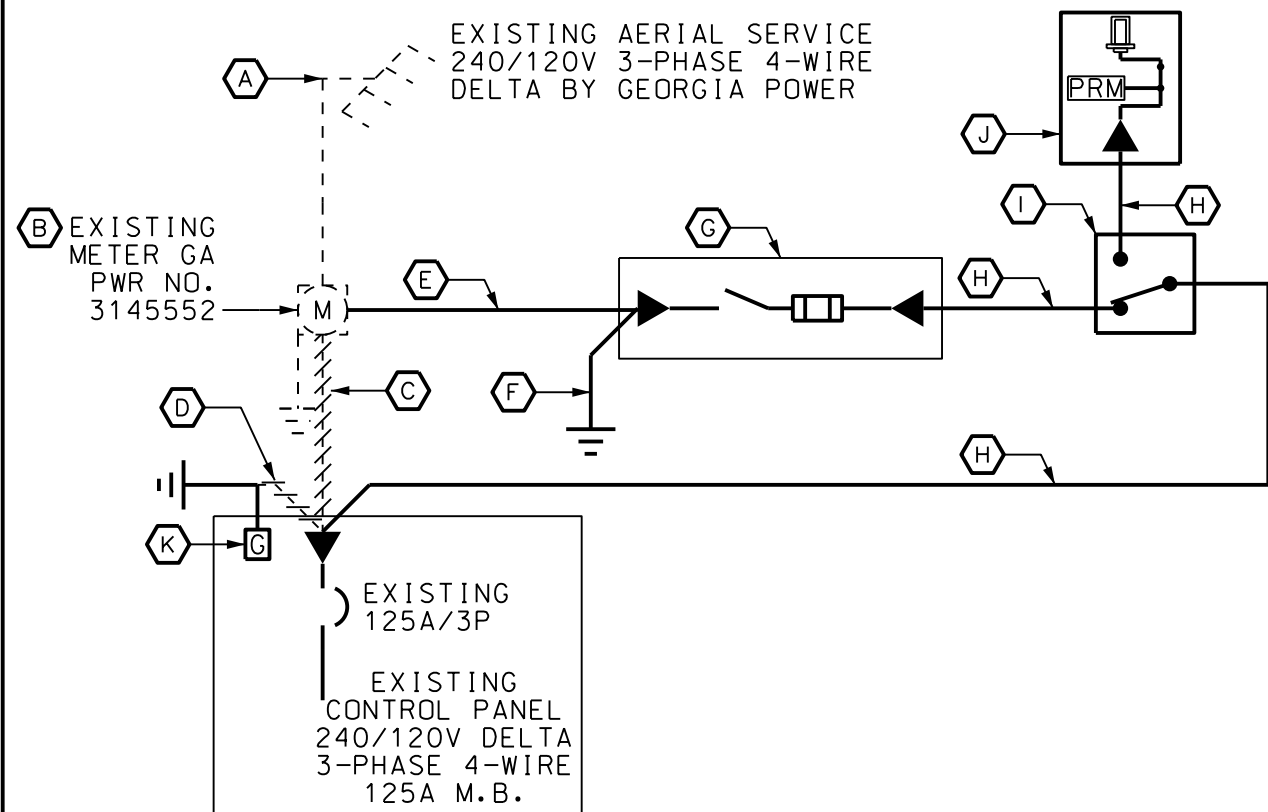


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PS 2008 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES



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DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E2.4
APPROVED: CC	



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE CONTROL PANEL
- (D) DISCONNECT SERVICE BOND FROM NEUTRAL BUS. REMOVE BONDING JUMPER/SCREW FROM NEUTRAL BUS TO FRAME.
- (E) NEW SERVICE. 2 1/2" C W/4NO.3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/125AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16
- (J) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (K) PROVIDE NEW MECHANICAL LUG ATTACHED TO PANEL INTERIOR. TERMINATE GEC TO NEW LUG. DO NOT BOND NEUTRAL.

NOTES:

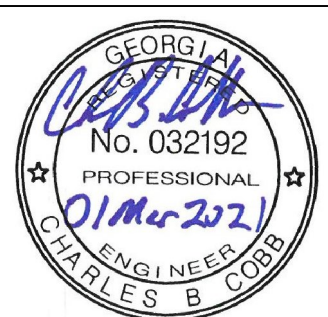
1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON THE EXISTING EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.

1 ONE-LINE DIAGRAM

E2.5

SCALE: NONE

NOTES G6, G14, G15, G16, G17



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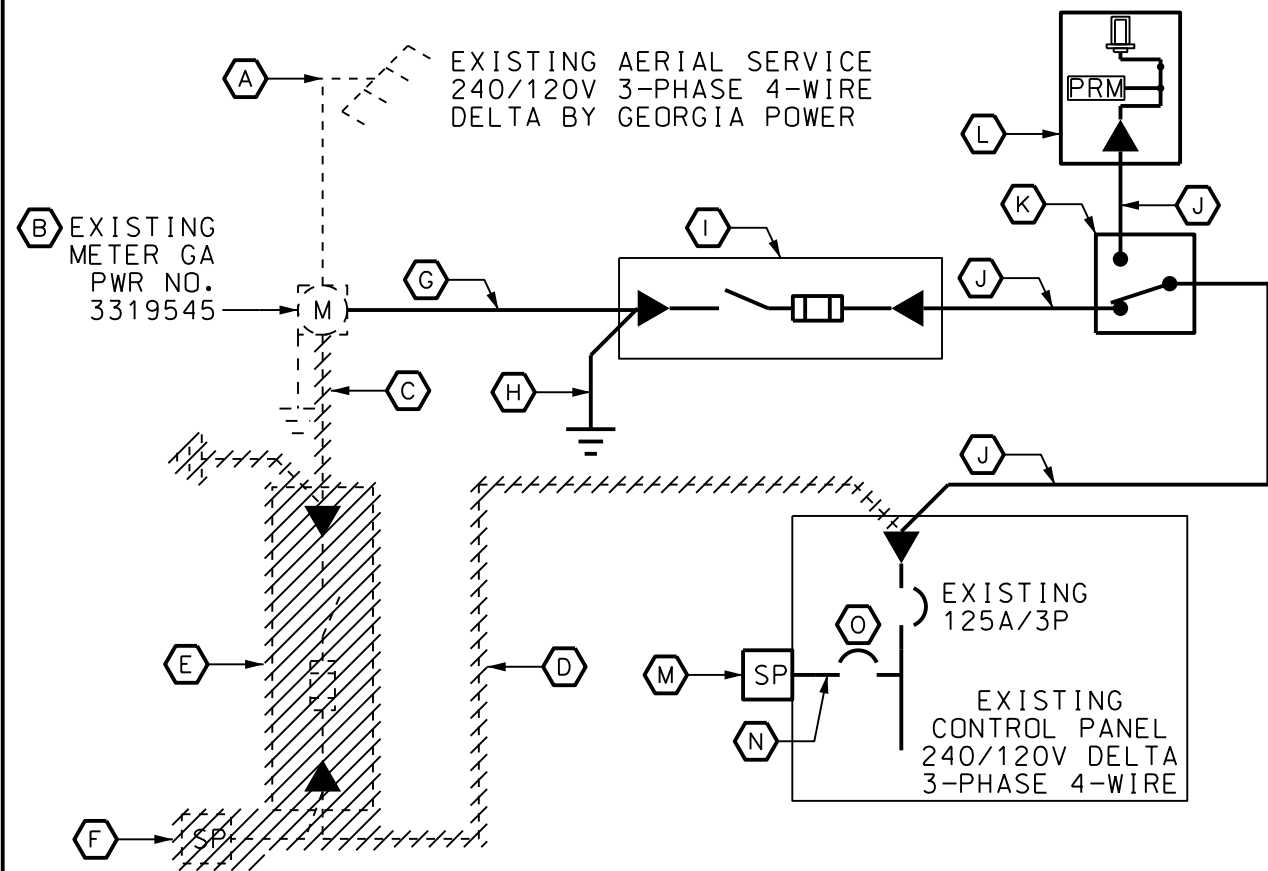
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PS 2011 ELECTRICAL
ONE-LINE DIAGRAM &
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DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E2.5
APPROVED: CC	



1 ONE-LINE DIAGRAM

E2.6 SCALE: NONE

NOTES G6, G14, G15, G16, G17

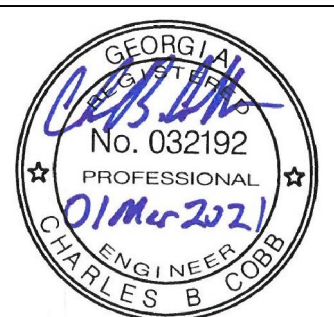
KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE EXISTING FUSED SWITCH
- (D) DEMOLISH FEEDER FROM FUSED SWITCH TO THE PUMP CONTROL PANEL
- (E) DEMOLISH EXISTING FUSED SWITCH
- (F) DISCONNECT EXISTING SURGE PROTECTION DEVICE, REMOVE CONDUIT AND CONDUCTORS
- (G) NEW SERVICE: 2 1/2" C W/4NO.3/0
- (H) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (I) NEW SERVICE DISCONNECT: 200A/3P/4XSS/100AF FUSED SWITCH

- (J) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (K) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE 3
- (L) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (M) INSTALL EXISTING SURGE PROTECTION DEVICE, NOTE G16
- (N) 1" C W/4NO.8, 1NO.8(G)
- (O) NEW BREAKER: 40A/3P/10KAIC

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON A NEW EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE EXISTING SURGE PROTECTION DEVICE DIRECTLY TO THE SIDE OF THE PUMP CONTROL PANEL. PROVIDE A NEMA 4X STAINLESS STEEL HOLE SEAL FOR THE UNUSED OPENING.



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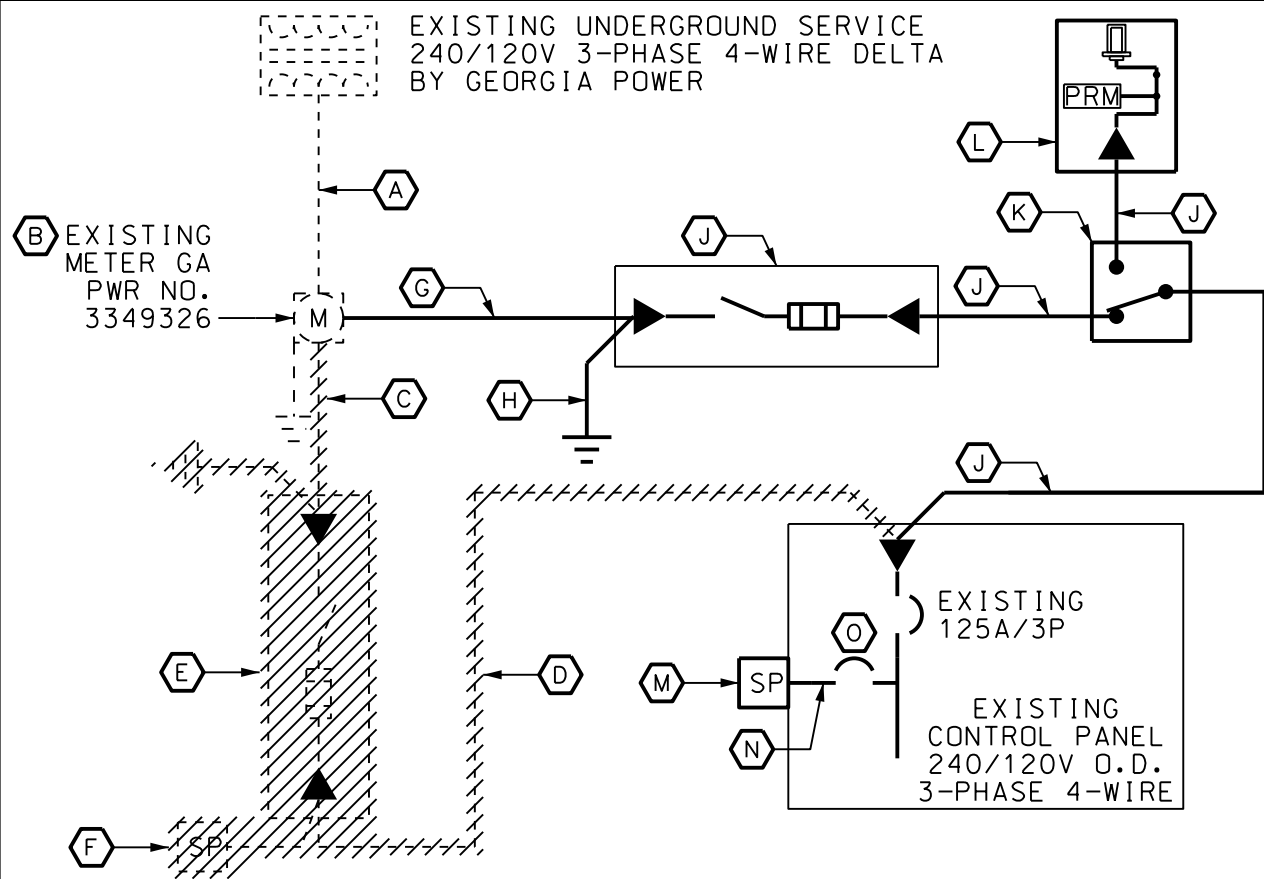
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PS 2013 ELECTRICAL
ONE-LINE DIAGRAM &
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DESIGNED: CC	SCALE: N.T.S.
DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E2.6
APPROVED: CC	



1 ONE-LINE DIAGRAM

E2.7 SCALE: NONE NOTES G6, G14, G15, G16, G17

KEYED NOTES:

- (A) EXISTING UNDERGROUND SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO FUSED SWITCH
- (D) DEMOLISH FEEDER FROM FUSED SWITCH TO THE PUMP CONTROL PANEL
- (E) DEMOLISH EXISTING FUSED SWITCH
- (F) DISCONNECT EXISTING SURGE PROTECTION DEVICE, REMOVE CONDUIT AND CONDUCTORS
- (G) NEW SERVICE: 2 1/2" C W/4NO.3/0
- (H) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (I) NEW SERVICE DISCONNECT: 200A/3P/4XSS/70AF FUSED SWITCH
- (J) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (K) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16
- (L) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (M) INSTALL EXISTING SURGE PROTECTION DEVICE, NOTE 3
- (N) 1" C W/4NO.8, 1NO.8(G)
- (O) NEW BREAKER: 40A/3P/10KAIC

NOTES:

1. MOUNT THE NEW FUSED SWITCH AND AUTOMATIC TRANSFER SWITCH ON THE FRONT OF THE EXISTING EQUIPMENT FRAME. MOUNT THE DOCKING STATION ON THE REAR OF THE EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE EXISTING SURGE PROTECTION DEVICE DIRECTLY TO THE SIDE OF THE PUMP CONTROL PANEL. PROVIDE A NEMA 4X STAINLESS STEEL HOLE SEAL FOR THE UNUSED OPENING.



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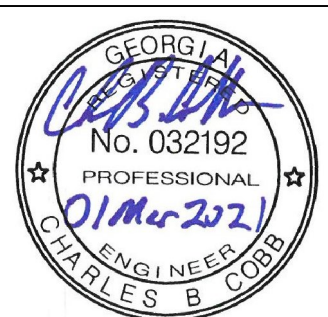


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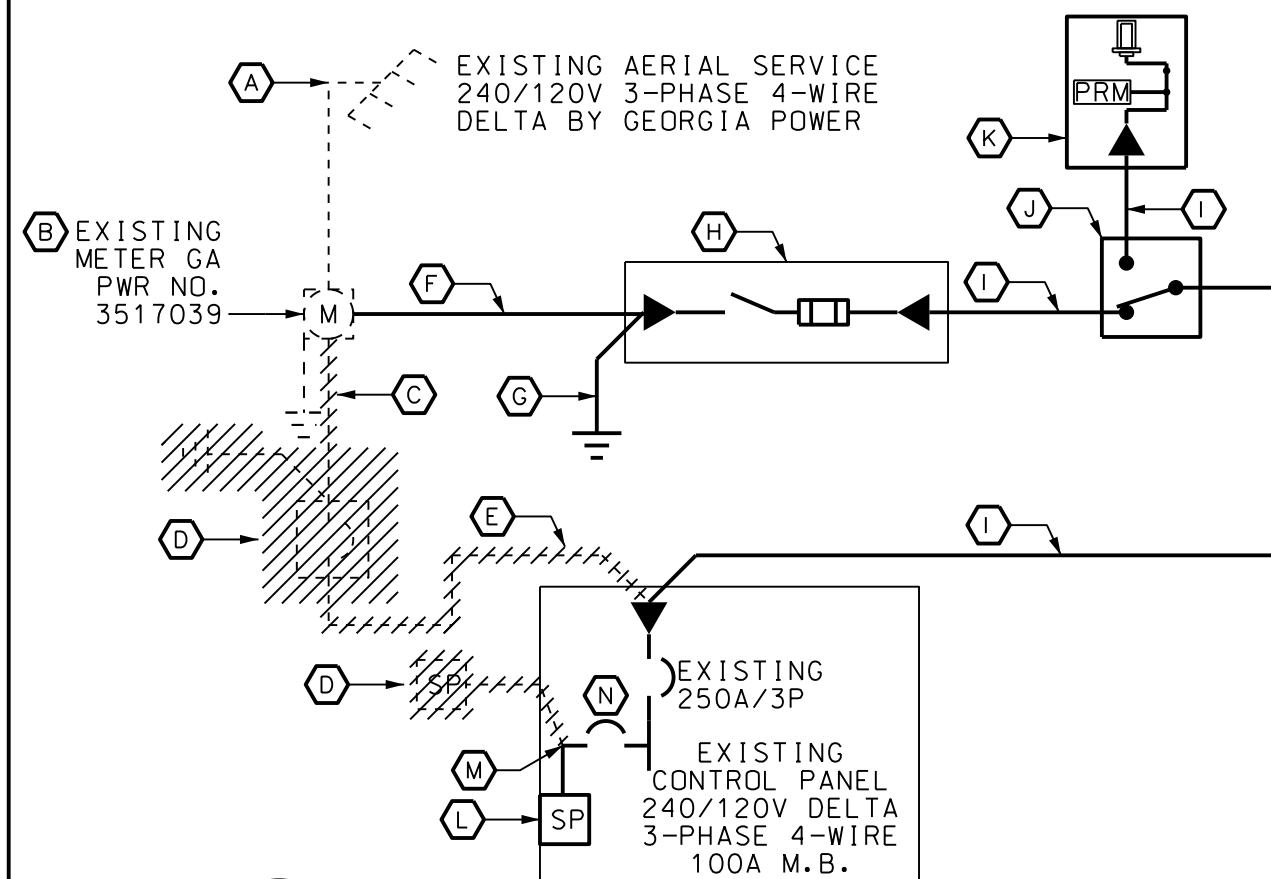


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PS 2022 ELECTRICAL
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DRAWN: AL	DATE: 01-MAR-2021
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APPROVED: CC	



1 ONE-LINE DIAGRAM

E2.8 SCALE: NONE NOTES G6, G14, G15, G16, G17

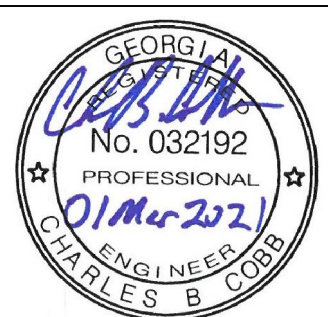
KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO ENCLOSED BREAKER.
- (D) DEMOLISH THE EXISTING ENCLOSED BREAKER AND SURGE PROTECTION DEVICE.
- (E) DEMOLISH THE EXISTING FEEDER FROM THE ENCLOSED BREAKER TO THE PUMP CONTROL PANEL
- (F) NEW SERVICE. 3" C W/4NO.250MCM
- (G) NEW GEC. 3/4" SCH 80 PVC W/1NO.2(G) TO NEW GROUNDING DELTA, NOTE G15
- (H) NEW SERVICE DISCONNECT: 400A/3P/4XSS/250AF FUSED SWITCH
- (I) NEW FEEDER. 3" C W/4NO.250MCM, 1NO.4(G)
- (J) NEW AUTOMATIC TRANSFER SWITCH 400A/3P/4XSS, NOTE G16

- (K) 400A/3P/4W/4X SS 240/120V DELTA TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (L) NEW SURGE PROTECTION: SQUARE D SDSA SERIES. CAT. NO. SDSA2040D
- (M) CONDUCTORS FURNISHED WITH UNIT
- (N) NEW BREAKER: 15A/3P/10KAIC

NOTES:

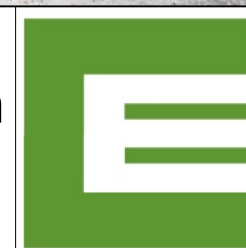
1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON THE EXISTING EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE NEW SURGE PROTECTION DEVICE WITHIN THE PUMP CONTROL PANEL.



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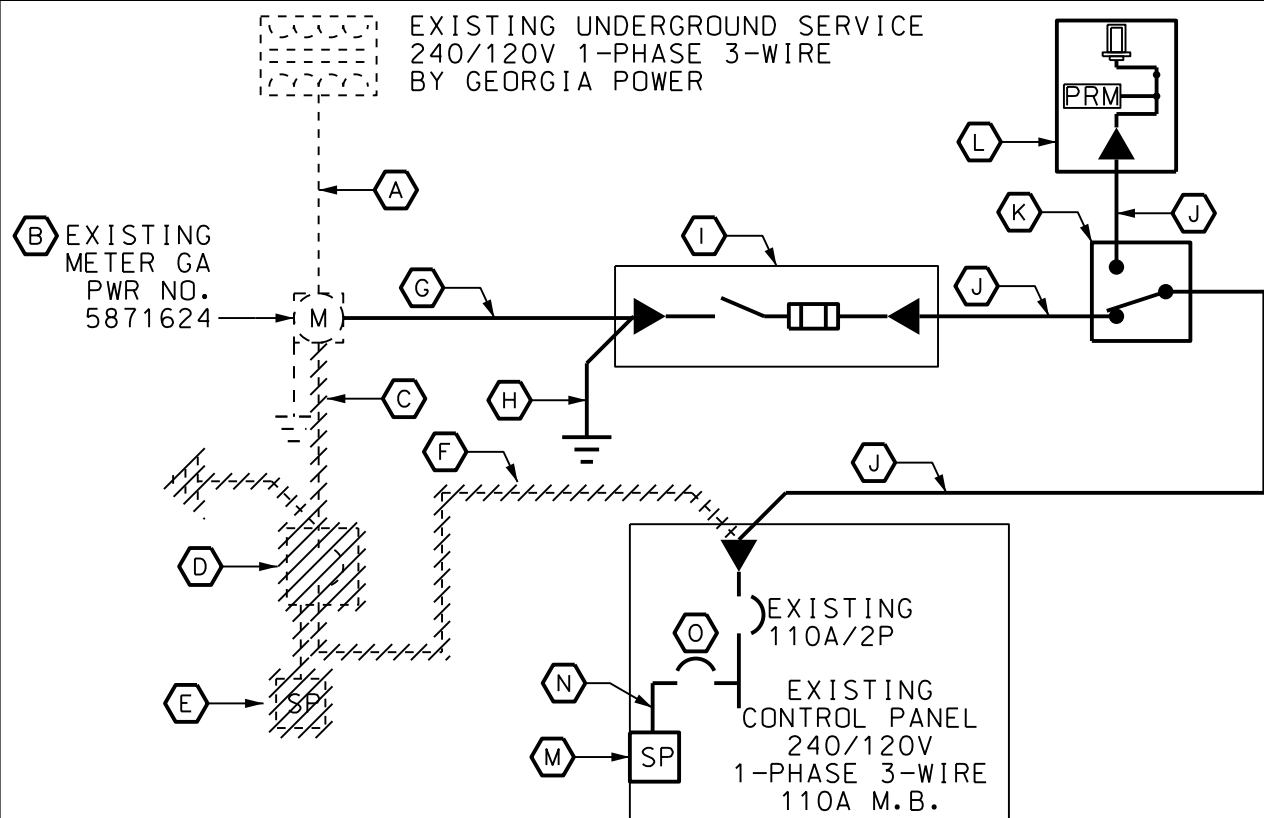
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PS 2033 ELECTRICAL
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NOTES

DESIGNED: CC	SCALE: N.T.S.
DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E2.8
APPROVED: CC	



KEYED NOTES:

- (A) EXISTING UNDERGROUND SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6,G17
- (C) DEMOLISH SERVICE FROM METER TO ENCLOSED BREAKER.
- (D) DEMOLISH THE EXISTING ENCLOSED BREAKER
- (E) DEMOLISH THE EXISTING SURGE PROTECTION DEVICE
- (F) DEMOLISH THE FEEDER FROM THE ENCLOSED BREAKER TO THE PUMP CONTROL PANEL
- (G) NEW SERVICE: 2" C W/3NO.3/0
- (H) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (I) NEW SERVICE DISCONNECT: 200A/2P/4XSS/150AF FUSED SWITCH
- (J) NEW FEEDER. 2" C W/3NO.3/0, 1NO.6(G)
- (K) NEW AUTOMATIC TRANSFER SWITCH 200A/2P/4XSS, NOTE G16
- (L) 200A/2P/3W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (M) NEW SURGE PROTECTION: SQUARE D SDSA SERIES. CAT. NO. SDSA1175T
- (N) CONDUCTORS FURNISHED WITH UNIT
- (O) NEW BREAKER: 15A/2P/10KAIC

1 ONE-LINE DIAGRAM

E2.9 SCALE: NONE NOTES G6, G14, G15, G16, G17

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION ON THE EXISTING EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. MOUNT THE NEW SURGE PROTECTION DEVICE WITHIN THE PUMP CONTROL PANEL.



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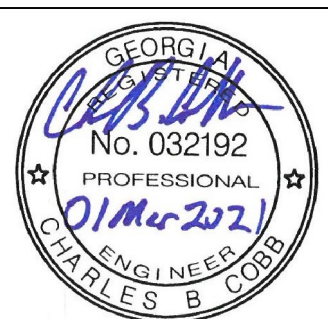


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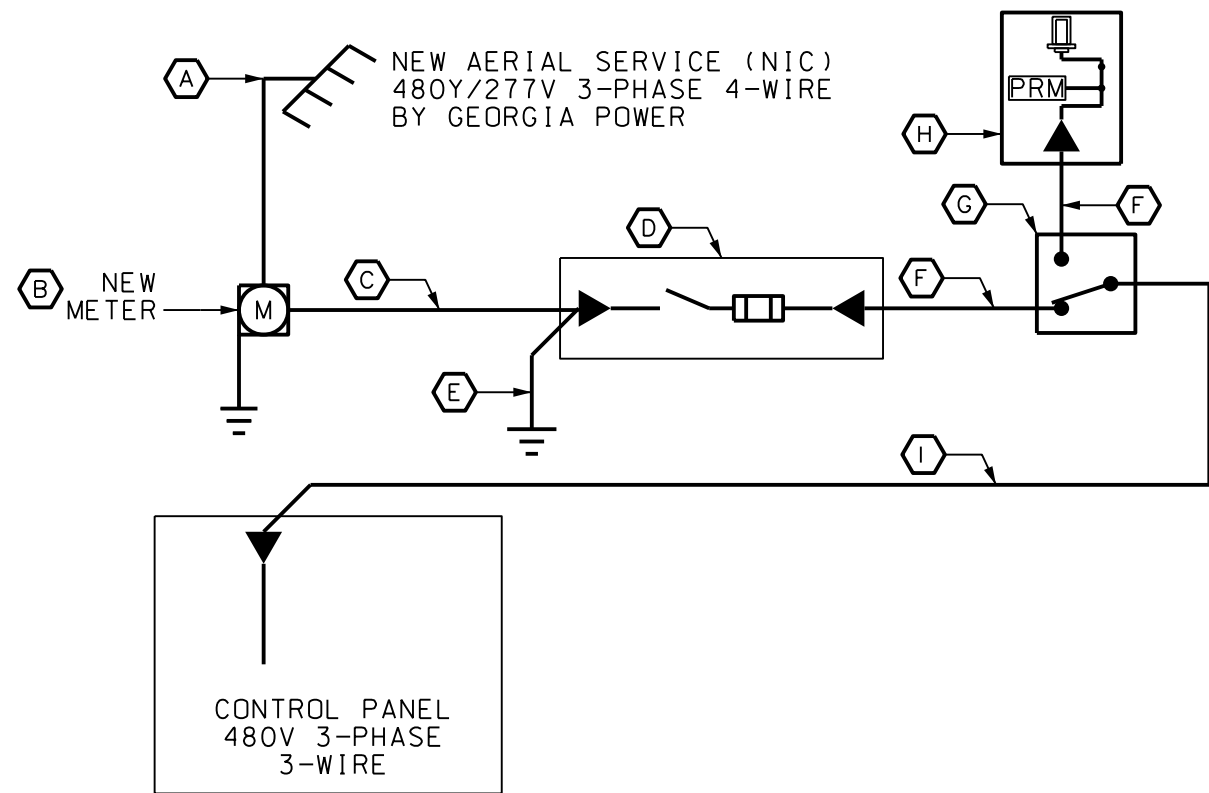


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PS 2039 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES



DESIGNED: CC	SCALE: N.T.S.
DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E2.9
APPROVED: CC	



KEYED NOTES:

- (A) NEW AERIAL SERVICE BY GEORGIA POWER
- (B) METER PER GEORGIA POWER REQUIREMENTS. NOTE G6, G17
- (C) SERVICE FROM METER TO MDP 2 1/2" C W/4NO.3/0
- (D) SERVICE DISCONNECT: 200A/3P/4XSS/200AF FUSED SWITCH
- (E) GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (F) FEEDER: 2 1/2" C W/4NO.3/0 1NO.6(G)
- (G) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16
- (H) 200A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (I) FEEDER: 2 1/2" C W/3NO.3/0 1NO.6(G)

NOTES:

1. THE PUMP STATION IS SCHEDULED TO BE REHABILITATED BY BGCJWSA. COORDINATE WITH THE OWNER FOR EQUIPMENT LOCATION AND ARRANGEMENT. THE CONTRACTOR SHALL INSTALL AND CONNECT THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION PER THE ONE-LINE DIAGRAM. NOTE G20.
2. THE OWNER SHALL PERFORM ALL OTHER WORK ON THE SITE WITH RESPECT TO THE NEW ELECTRICAL SYSTEM, INCLUDING THE NEW EQUIPMENT RACK.

1 ONE-LINE DIAGRAM

E2.10 SCALE: NONE NOTES G6, G14, G15, G16, G17



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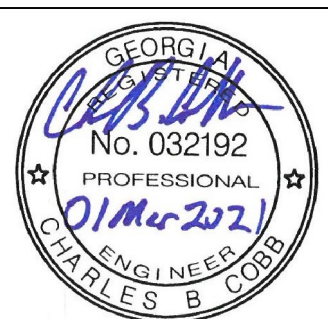


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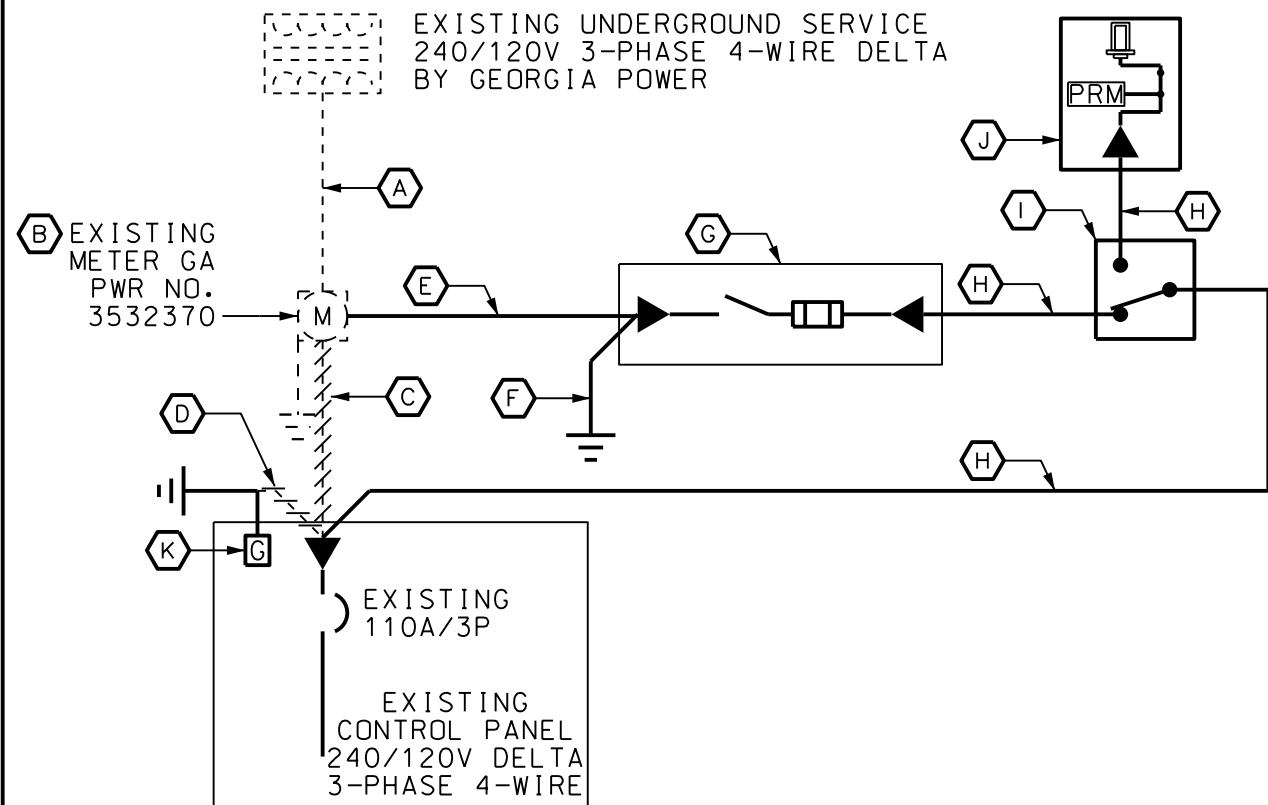


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PS 2056 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES



DESIGNED: CC	SCALE: N.T.S.
DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER:
APPROVED: CC	E2.10



1 ONE-LINE DIAGRAM

E2.11 SCALE: NONE NOTES G6, G14, G15, G16, G17

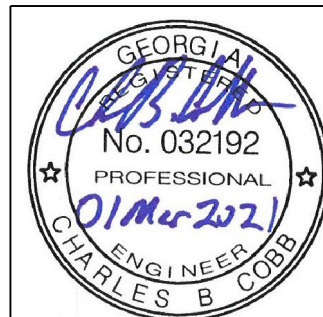
KEYED NOTES:

- (A) EXISTING UNDERGROUND SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE CONTROL PANEL
- (D) DISCONNECT SERVICE BOND FROM NEUTRAL BUS. REMOVE BONDING JUMPER/SCREW FROM NEUTRAL BUS TO FRAME.
- (E) NEW SERVICE. 2 1/2" C W/ 4NO. 3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/ 1NO. 4(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 200A/ 3P/4XSS/150AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/ 4NO. 3/0, 1NO. 6(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16
- (J) 200A/3P/4W/4X SS 240/120V DELTA TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16

- (K) PROVIDE NEW MECHANICAL LUG ATTACHED TO PANEL INTERIOR. TERMINATE GEC TO NEW LUG. DO NOT BOND NEUTRAL.

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH ON THE FRONT OF THE EXISTING EQUIPMENT FRAME. MOUNT THE DOCKING STATION ON THE REAR OF THE EQUIPMENT FRAME. FIELD COORDINATE THE ARRANGEMENT OF THE NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.



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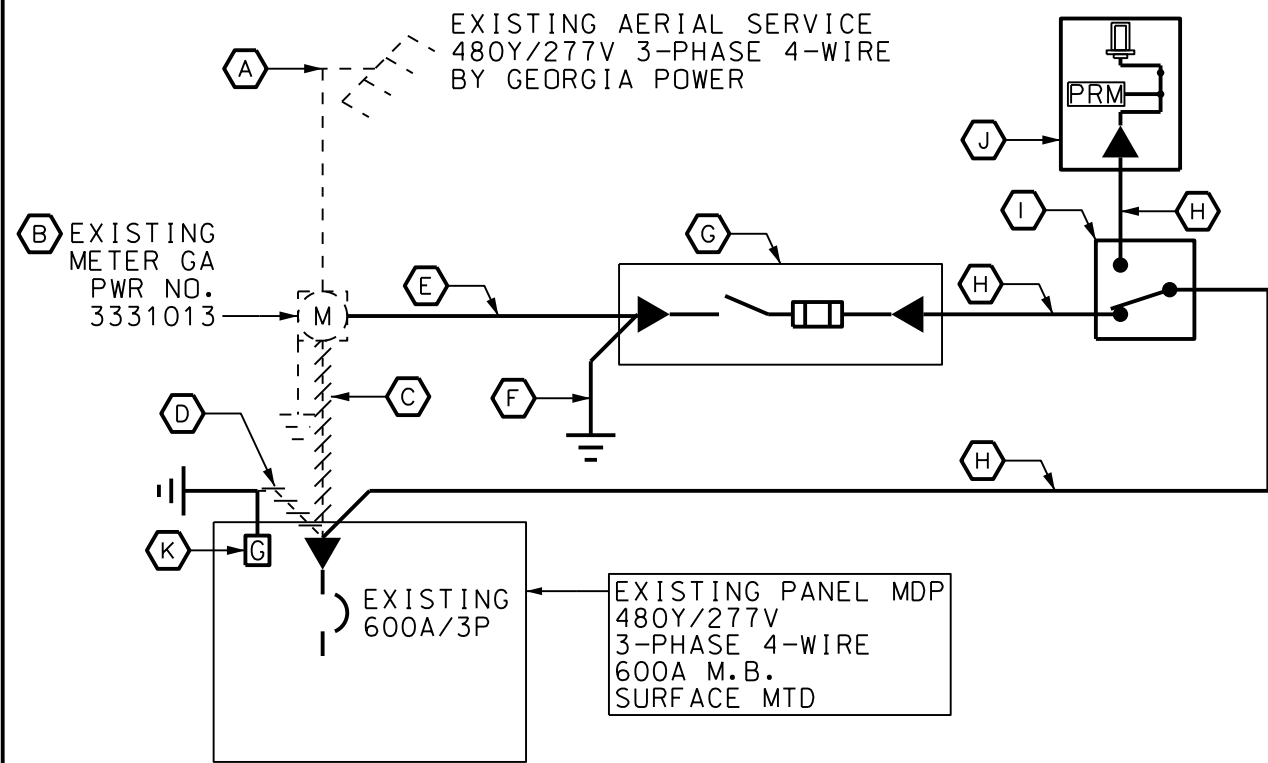
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PS 2062 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

DESIGNED: CC	SCALE: N.T.S.
DRAWN: AL	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER:
APPROVED: CC	E2.11



1 ONE-LINE DIAGRAM

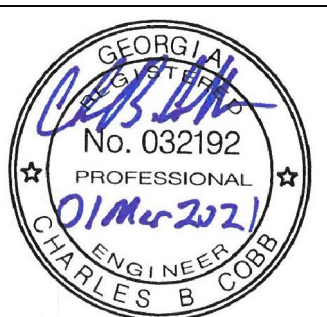
E4.1 SCALE: NONE NOTES G6, G13, G15, G16

KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO MDP
- (D) DISCONNECT SERVICE BOND FROM NEUTRAL BUS. REMOVE BONDING JUMPER/SCREW FROM NEUTRAL BUS TO FRAME.
- (E) NEW SERVICE. TWO SETS: 3" C W/ 4NO. 350MCM
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO. 2/O(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 600A/ 3P/4XSS/600AF FUSED SWITCH
- (H) NEW FEEDER. TWO SETS: 3" C W/ 4NO. 350MCM, 1NO. 1(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 600A/3P/4XSS. NOTE G16
- (J) 600A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16
- (K) PROVIDE NEW MECHANICAL LUG ATTACHED TO PANEL INTERIOR, TERMINATE GEC TO NEW LUG. DO NOT BOND NEUTRAL.

NOTES:

1. THE NEW FUSED SWITCH AND DOCKING STATION SHALL BE MOUNTED ON THE EXTERIOR OF THE EXISTING BUILDING. PROVIDE ALUMINUM CHANNELS ATTACHED TO THE WALL FOR MOUNTING OF THE NEW AUTOMATIC TRANSFER SWITCH AND DOCKING STATION AND SUPPORT OF THE NEW CONDUITS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO PANEL MDP UNDERGROUND AS REQUIRED. UTILIZE THE EXISTING WALL PENETRATIONS INTO PANEL MDP.
3. PROVIDE DOCKING STATION WITH AUTO-START TERMINALS, 20A 125V GFCI DUPLEX RECEPTACLE (HUBBELL GFWRST20) AND 5 PORT SCADA TERMINAL.
 - EXTEND 3/4" C W/3NO. 14, 1NO. 14(G) FROM DOCKING STATION TO ATS
 - EXTEND 3/4" C W/2NO. 12, 1NO. 12(G) FROM DOCKING STATION TO BRANCH CIRCUIT PANEL IN THE BUILDING. UTILIZE EXISTING SPARE BREAKER IN PANEL.
 - EXTEND 1" C W/CONDUCTORS AS REQUIRED TO THE SCADA PANEL; FIELD COORDINATE CONDUCTORS WITH SCADA VENDOR AND BGCJWSC



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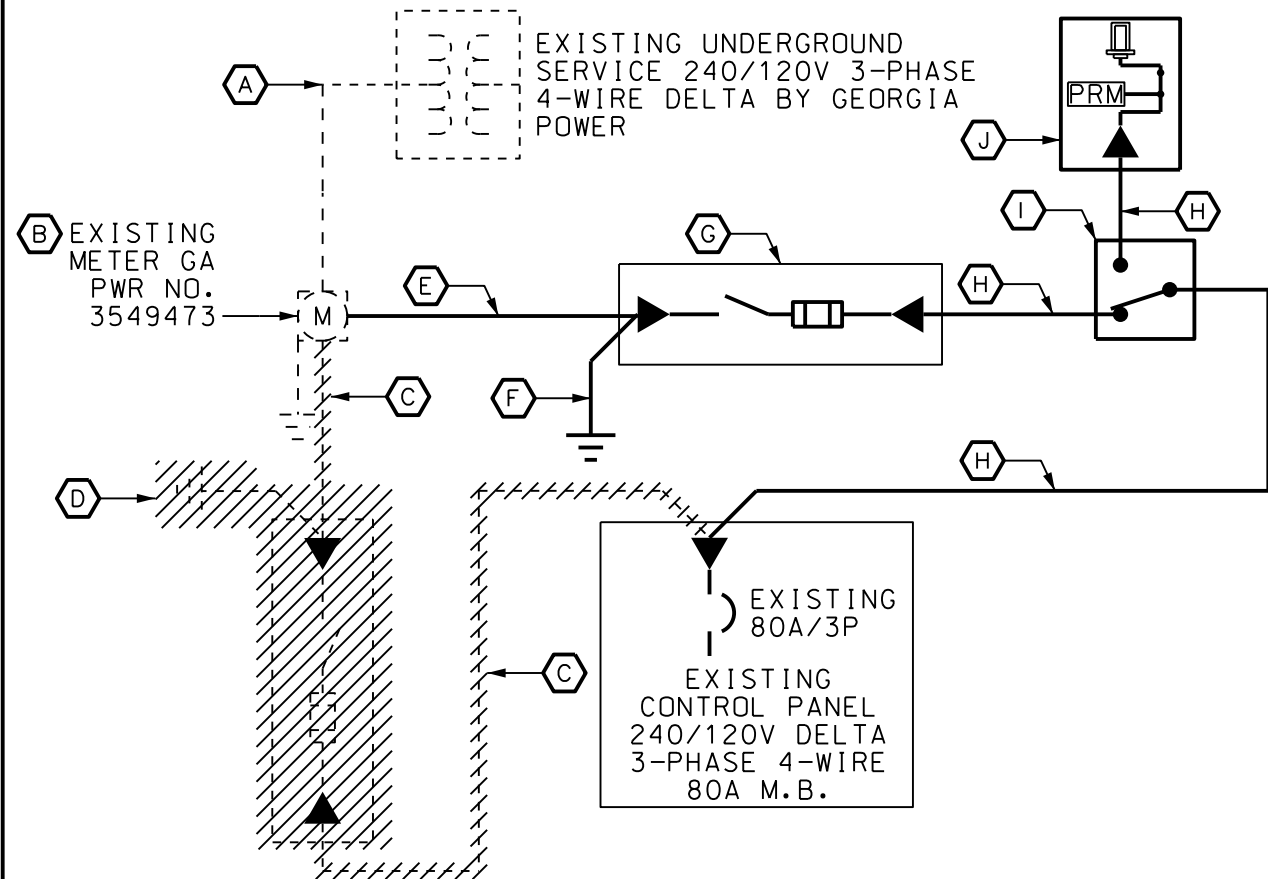
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PS 4006 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

DESIGNED: CC	SCALE: N.T.S.
DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E4.1
APPROVED: CC	



1 ONE-LINE DIAGRAM

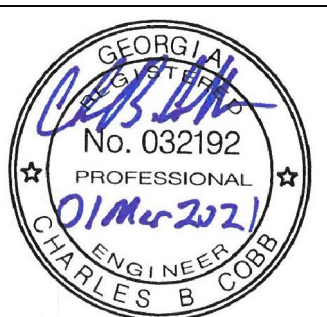
E4.2 SCALE: NONE NOTES G6, G14, G15, G16, G17

KEYED NOTES:

- (A) EXISTING UNDERGROUND SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE FUSED DISCONNECT, AND THE FEEDER FROM THE DISCONNECT TO THE CONTROL PANEL
- (D) DISCONNECT AND REMOVE THE GROUNDING ELECTRODE CONDUCTOR FROM THE EXISTING DISC. SW. TO THE BELOW GRADE
- (E) NEW SERVICE. 2 1/2" C W/4NO.3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/80AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.1(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS. NOTE G16
- (J) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16

NOTES:

1. THE NEW FUSED SWITCH SHALL BE MOUNTED ON THE FRONT OF THE EXISTING EQUIPMENT FRAME. THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION SHALL BE MOUNTED ON THE REAR OF THE EQUIPMENT FRAME. PROVIDE ADDITIONAL ALUMINUM CHANNELS, AS REQUIRED, FOR MOUNTING OF THE NEW EQUIPMENT AND SUPPORT OF THE NEW CONDUITS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO THE CONTROL PANEL AS REQUIRED.



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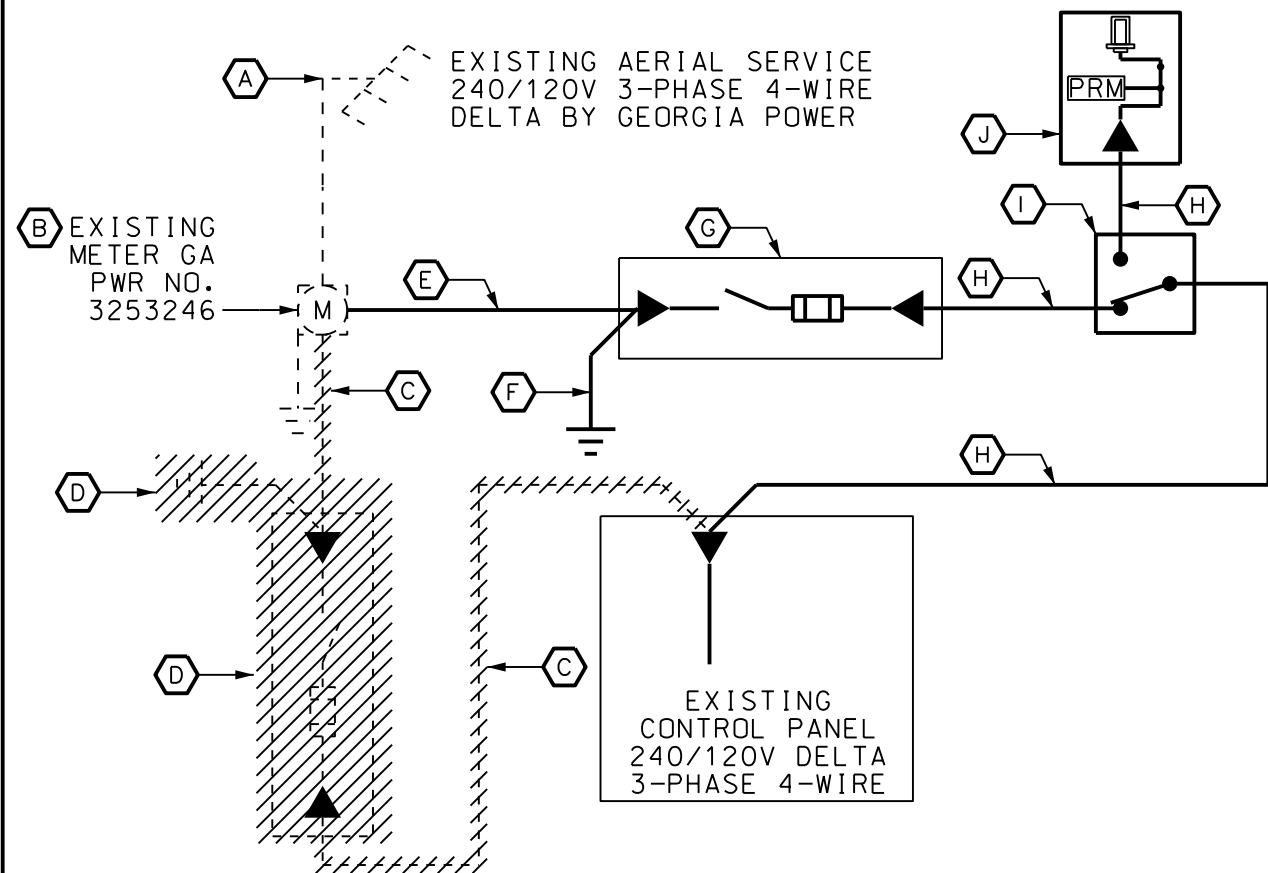
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PS 4015 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

DESIGNED: CC	SCALE: N.T.S.
DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E4.2
APPROVED: CC	



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE FUSED DISCONNECT, AND THE FEEDER FROM THE DISCONNECT TO THE CONTROL PANEL
- (D) DEMOLISH THE EXISTING FUSED SWITCH AND GEC.
- (E) NEW SERVICE. 2 1/2" C W/4NO.3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE 3
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/100AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS. NOTE G16
- (J) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16

NOTES:

1. THE NEW FUSED SWITCH SHALL BE MOUNTED ON THE FRONT OF THE EXISTING EQUIPMENT FRAME, THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION SHALL BE MOUNTED ON THE REAR OF THE EQUIPMENT FRAME. PROVIDE ADDITIONAL ALUMINUM CHANNELS, AS REQUIRED, FOR MOUNTING OF THE NEW EQUIPMENT AND SUPPORT OF THE NEW CONDUITS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO THE CONTROL PANEL AS REQUIRED.
3. COORDINATE WITH THE OWNER FOR REMOVAL OF THE EXISTING ANTENNA AND RELOCATION OF THE SCADA PANEL, AS REQUIRED.

1 ONE-LINE DIAGRAM

E4.3 SCALE: NONE NOTES G6, G14, G15, G16, G17



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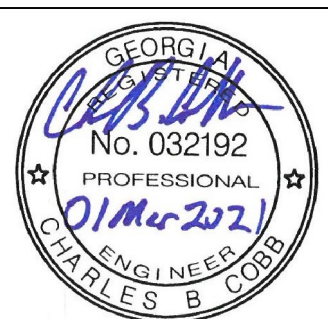


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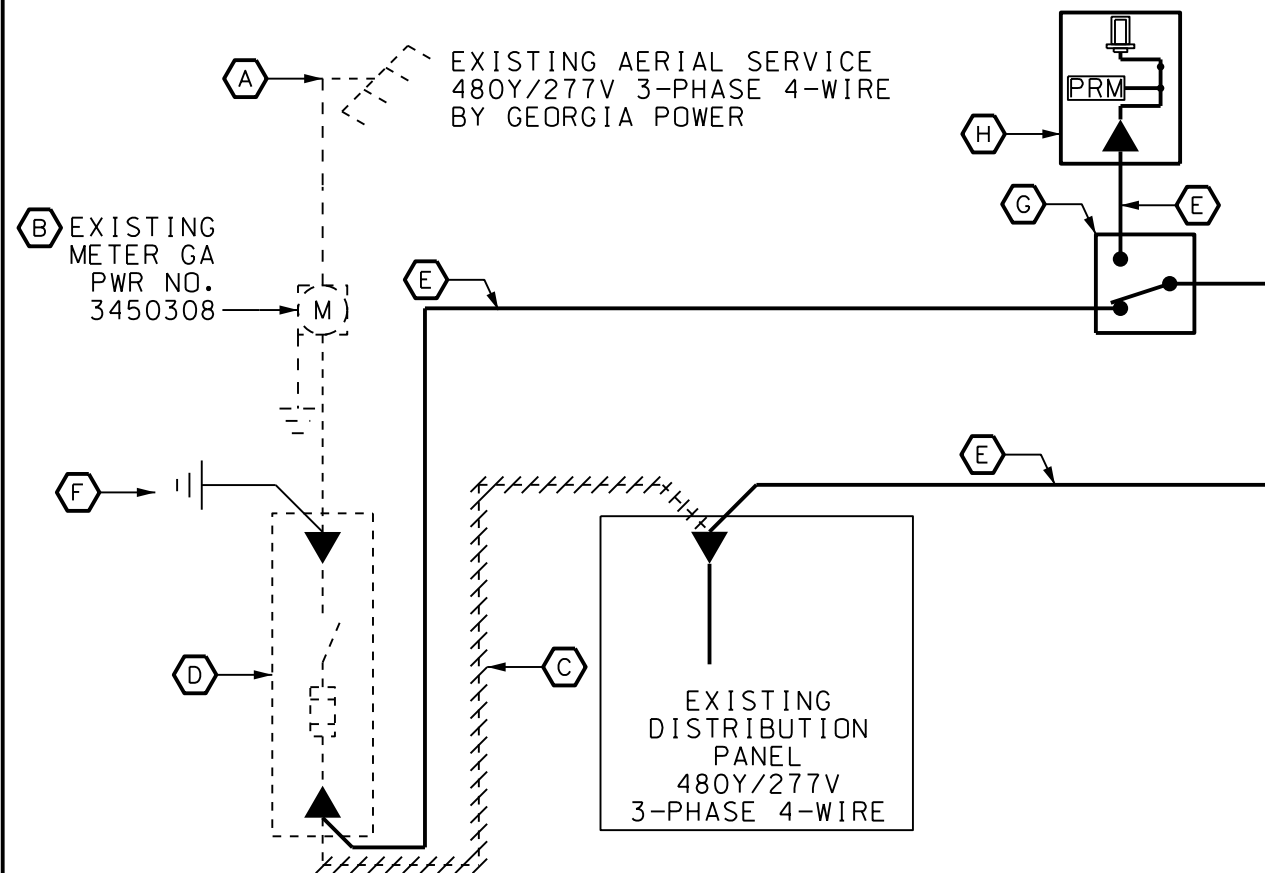


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PS 4016 ELECTRICAL
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DRAWN: LC	DATE: 01-MAR-2021
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APPROVED: CC	



1 ONE-LINE DIAGRAM

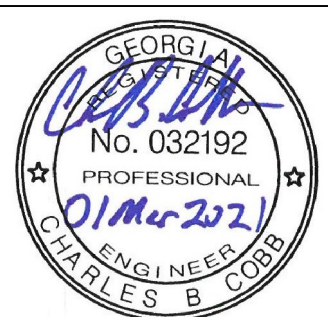
E4.4 SCALE: NONE NOTES G6, G14, G15, G16, G17

KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH THE EXISTING FEEDER FROM THE FUSED SWITCH TO THE DISTRIBUTION PANEL.
- (D) IN FUSED SWITCH, PROVIDE INSULATED NEUTRAL WITH FOUR MECHANICAL LUGS (TWO 4/0 MIN, TWO NO. 2 MIN), BONDING JUMPER, AND NEW GEC. NOTE G15
- (E) NEW FEEDER; 2 1/2" C W/ 4 NO. 3/0, 1 NO. 6 (G)
- (F) NEW GEC.. 3/4" SCH. 80 PVC W/ 1 NO. 4 (G) TO GROUNDING DELTA, NOTE G15
- (G) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS. NOTE G16
- (H) 200A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16

NOTES:

1. THE EXISTING FUSED SWITCH SHALL REMAIN. PROVIDE NEW SERVICE GROUNDING AS INDICATED IN THE KEYED NOTES. THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION SHALL BE MOUNTED ON THE REAR OF THE EQUIPMENT FRAME. PROVIDE ADDITIONAL ALUMINUM CHANNELS, AS REQUIRED, FOR MOUNTING OF THE NEW EQUIPMENT AND SUPPORT OF THE NEW CONDUITS.
2. EXTEND NEW FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO THE CONTROL PANEL AS REQUIRED.
3. THE PUMP STATION IS SCHEDULED TO BE REHABILITATED BY BGCJWSA. COORDINATE WITH THE OWNER FOR EQUIPMENT LOCATION AND ARRANGEMENT. THE CONTRACTOR SHALL INSTALL AND CONNECT THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION PER THE ONE-LINE DIAGRAM. NOTE G20.



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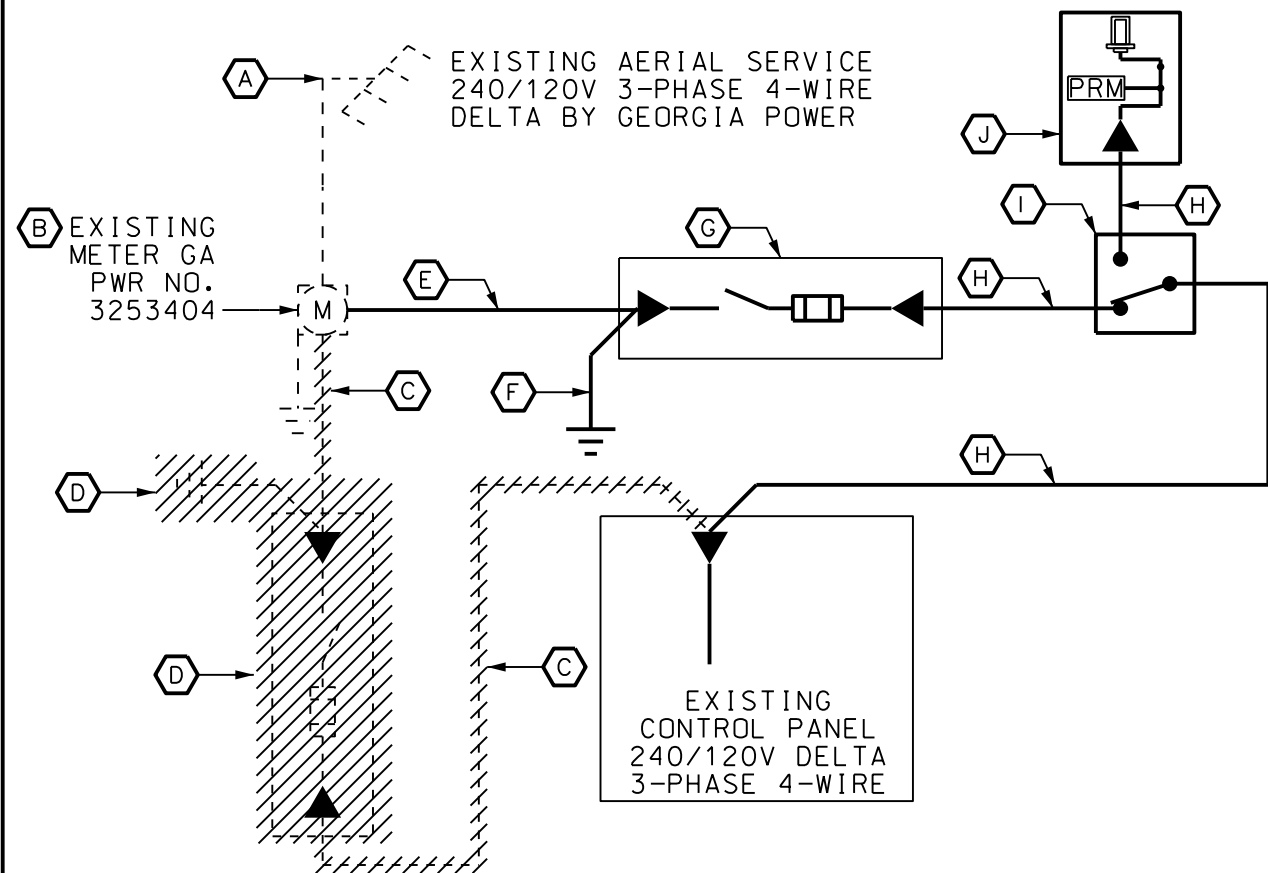
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PS 4021 ELECTRICAL
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DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER:
APPROVED: CC	E4.4



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO THE FUSED DISCONNECT, AND THE FEEDER FROM THE DISCONNECT TO THE CONTROL PANEL
- (D) DEMOLISH THE EXISTING FUSED SWITCH AND GEC.
- (E) NEW SERVICE. 2 1/2" C W/4NO.3/0
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/100AF FUSED SWITCH
- (H) NEW FEEDER. 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS. NOTE G16
- (J) 200A/3P/4W/4X SS 240/120V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16

NOTES:

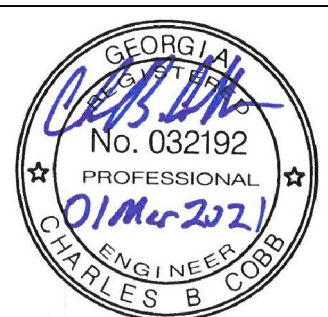
1. THE NEW FUSED SWITCH SHALL BE MOUNTED ON THE REAR OF THE EXISTING EQUIPMENT FRAME, THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION SHALL BE MOUNTED ON THE EXTENSION OF THE EQUIPMENT FRAME. PROVIDE ADDITIONAL ALUMINUM CHANNELS, AS REQUIRED, FOR MOUNTING OF THE NEW EQUIPMENT AND SUPPORT OF THE NEW CONDUITS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO THE CONTROL PANEL AS REQUIRED.
3. COORDINATE WITH THE OWNER FOR REMOVAL OF THE EXISTING ANTENNA.

1 ONE-LINE DIAGRAM

E4.5

SCALE: NONE

NOTES G6, G14, G15, G16, G17



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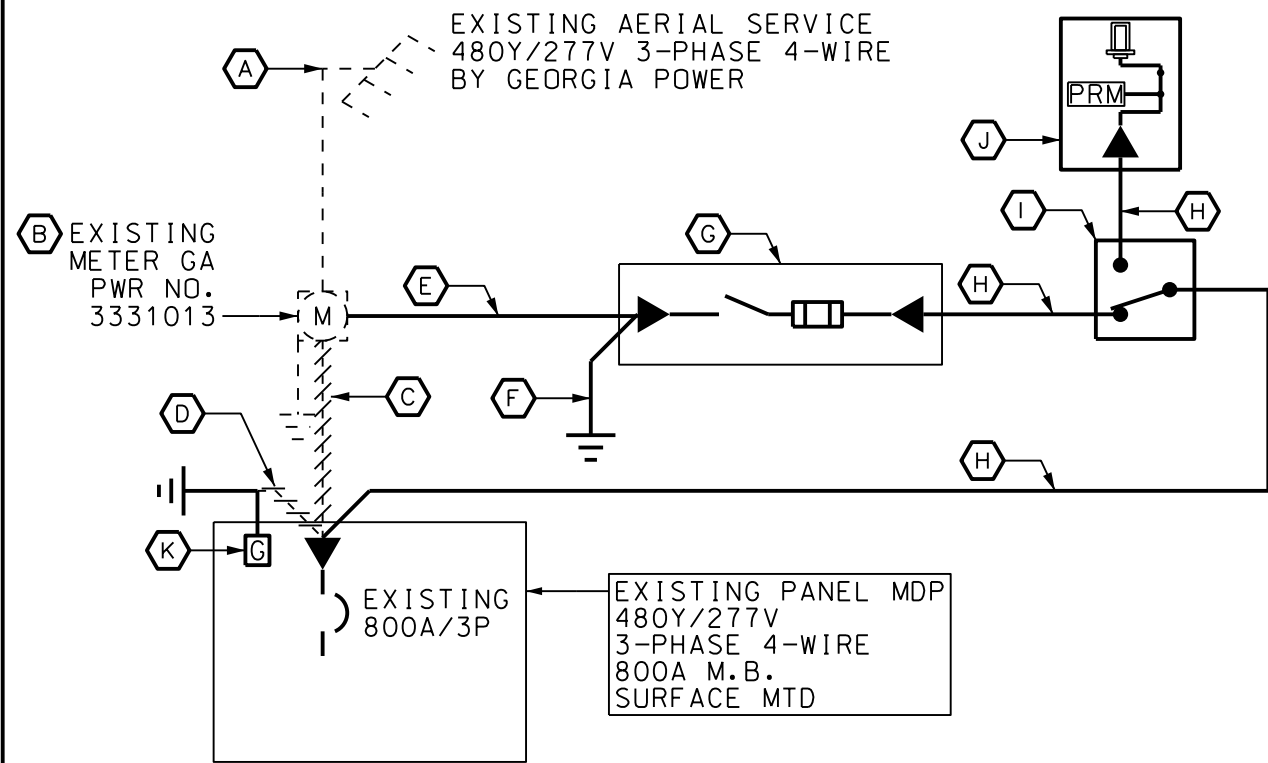
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PS 4027 ELECTRICAL
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DRAWN: LC	DATE: 01-MAR-2021
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APPROVED: CC	



1 ONE-LINE DIAGRAM

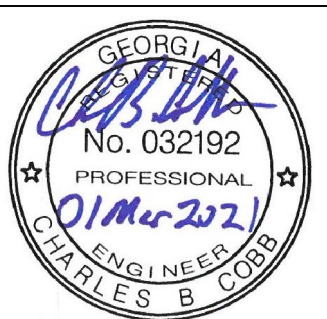
E4.6 SCALE: NONE NOTES G6, G13, G15, G16

KEYED NOTES:

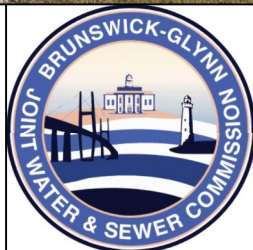
- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO MDP
- (D) DISCONNECT SERVICE BOND FROM NEUTRAL BUS. REMOVE BONDING JUMPER/SCREW FROM NEUTRAL BUS TO FRAME.
- (E) NEW SERVICE. THREE SETS: 3" C W/ 4NO. 300MCM
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO. 2/O(G) TO NEW GROUNDING DELTA
- (G) NEW SERVICE DISCONNECT: 800A/ 3P/4XSS/800AF FUSED SWITCH
- (H) NEW FEEDER. THREE SETS: 3" C W/ 4NO. 300MCM, 1NO. 1/O(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 800A/4P/4XSS, NOTE G16
- (J) 800A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16.
- (K) PROVIDE NEW MECHANICAL LUG ATTACHED TO PANEL INTERIOR, TERMINATE GEC TO NEW LUG. DO NOT BOND NEUTRAL.

NOTES:

1. MOUNT NEW EQUIPMENT TO SOUTH FACE OF BUILDING ON ALUMINUM B-LINE B22 CHANNELS.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO PANEL MDP UNDERGROUND AS REQUIRED. UTILIZE THE EXISTING WALL PENETRATIONS INTO PANEL MPD.
3. PROVIDE DOCKING STATION WITH AUTO-START TERMINALS, 20A 125V GFCI DUPLEX RECEPTACLE (HUBBELL GFWRST20) AND 5 PORT SCADA TERMINAL.
 - EXTEND 3/4" C W/3NO. 14, 1NO. 14(G) FROM DOCKING STATION TO ATS
 - EXTEND 3/4" C W/2NO. 12, 1NO. 12(G) FROM DOCKING STATION TO BRANCH CIRCUIT PANEL IN THE BUILDING. UTILIZE EXISTING SPARE BREAKER IN PANEL.
 - EXTEND 1" C W/CONDUCTORS AS REQUIRED TO THE SCADA PANEL; FIELD COORDINATE CONDUCTORS WITH SCADA VENDOR AND BGCJWSC.



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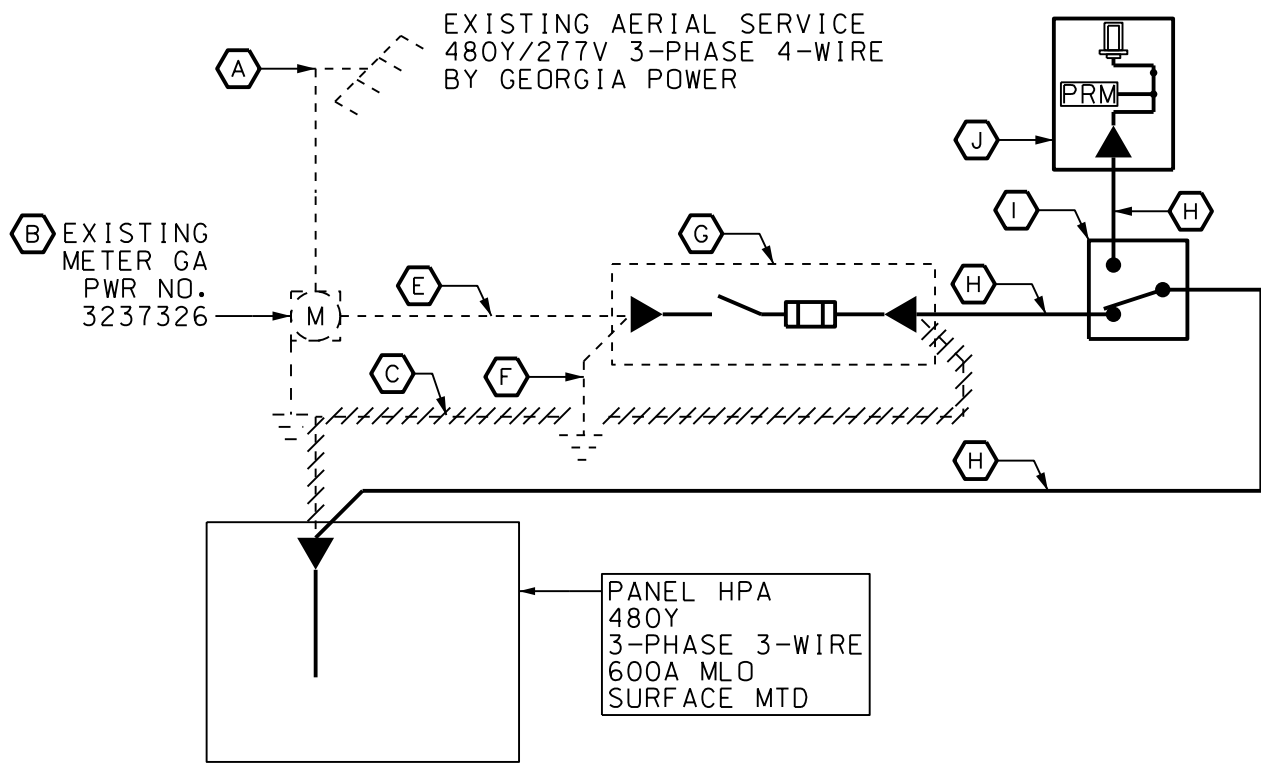
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PS 4028 ELECTRICAL
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DESIGNED: CC	SCALE: N.T.S.
DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E4.6
APPROVED: CC	



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE 2.6
- (C) DEMOLISH SERVICE FROM METER TO PANEL HPA
- (D) OMITTED.
- (E) EXISTING SERVICE.
- (F) EXISTING GEC.
- (G) EXISTING SERVICE DISCONNECT: 600A/3P/4XSS/600AF FUSED SWITCH
- (H) NEW FEEDER. TWO SETS: 3" C W/ 4NO.350MCM, 1NO.1(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 600A/3P/4XSS, NOTE G16, G20
- (J) 600A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16, G20, NOTE 3

NOTES:

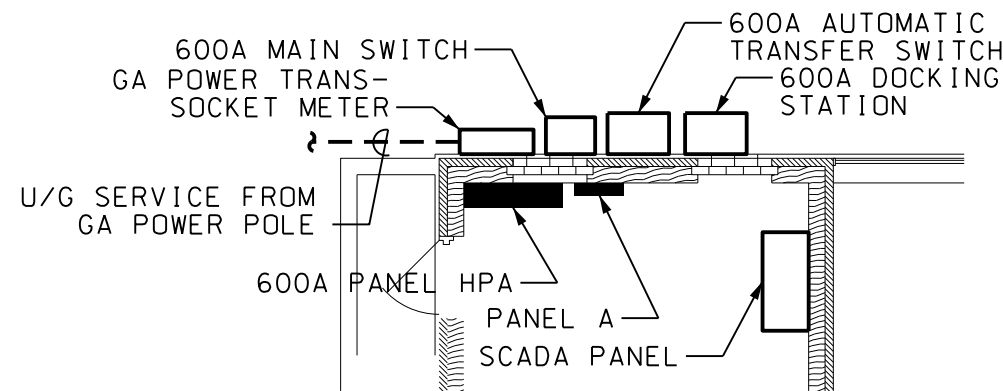
1. PROVIDE ALUMINUM CHANNELS ATTACHED TO THE BUILDING EXTERIOR WALL FOR SUPPORT OF THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION. IF NECESSARY DUE TO EQUIPMENT CHARACTERISTICS, PROVIDE A CONCRETE PAD FOR FREE-STANDING EQUIPMENT. REFER TO DETAILS, SHEET E0.1.
2. EXTEND NEW FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO PANEL HPA AS REQUIRED.
3. PROVIDE DOCKING STATION WITH AUTO-START TERMINALS, 20A 125V GFCI DUPLEX RECEPTACLES (HUBBELL GFWRST20) AND 5 PORT SCADA TERMINAL.
 - EXTEND 3/4" C W/3NO.14, 1NO.14(G) FROM DOCKING STATION TO ATS
 - EXTEND 3/4" C W/2NO.12, 1NO.12(G) FROM DOCKING STATION TO BRANCH CIRCUIT PANEL IN THE BUILDING. UTILIZE EXISTING SPARE BREAKER IN PANEL.
 - EXTEND 1" C W/CONDUCTORS AS REQUIRED TO THE SCADA PANEL; FIELD COORDINATE CONDUCTORS WITH SCADA VENDOR AND BGCJWSC.

1 ONE-LINE DIAGRAM

E4.7

SCALE: NONE

NOTES G6, G14, G16, G17



2 PARTIAL FLOOR PLAN

E4.7

SCALE: NONE

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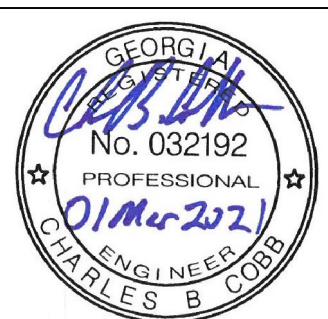


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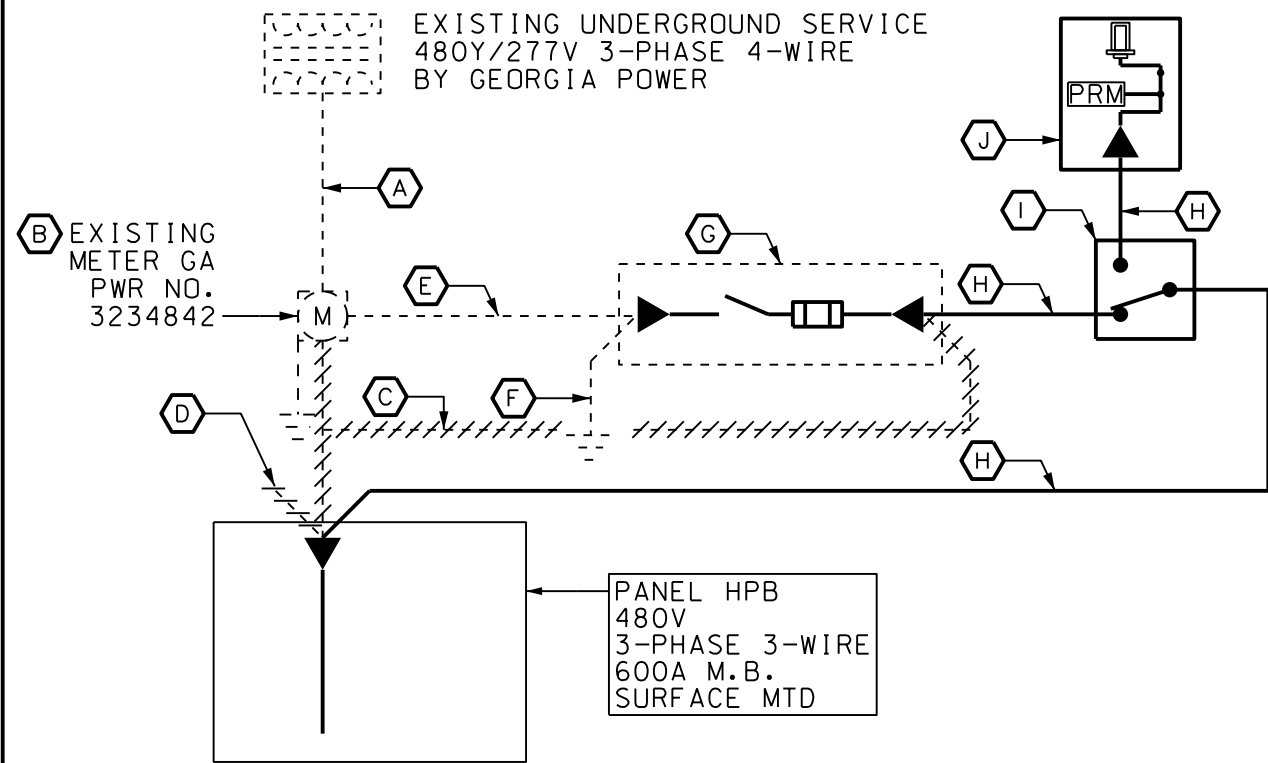


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PS 4035 ELECTRICAL
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DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER:
APPROVED: CC	E4.7



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH SERVICE FROM METER TO MDP
- (D) OMITTED
- (E) EXISTING SERVICE.
- (F) EXISTING GEC.
- (G) EXISTING SERVICE DISCONNECT: 600A/3P/4XSS/600AF FUSED SWITCH
- (H) NEW FEEDER. TWO SETS: 3" C W/ 4NO.350MCM, 1NO.1(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 600A/3P/4XSS, NOTE G16, G20
- (J) 600A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE 3, G16, G20

NOTES:

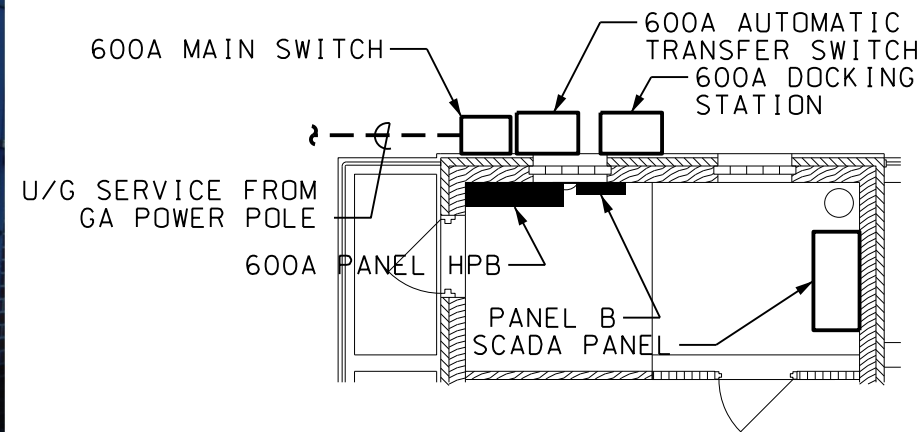
1. PROVIDE ALUMINUM CHANNELS ATTACHED TO THE BUILDING EXTERIOR WALL FOR SUPPORT OF THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION. IF NECESSARY DUE TO EQUIPMENT CHARACTERISTICS, PROVIDE A CONCRETE PAD FOR FREE-STANDING EQUIPMENT. REFER TO DETAILS, SHEET E0.1.
2. EXTEND NEW FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO PANEL HPB AS REQUIRED.
3. PROVIDE DOCKING STATION WITH AUTO-START TERMINALS, 20A 125V GFCI DUPLEX RECEPTACLE (HUBBELL GFWRST20) AND 5 PORT SCADA TERMINAL.
 - EXTEND 3/4" C W/3NO.14, 1NO.14(G) FROM DOCKING STATION TO ATS
 - EXTEND 3/4" C W/2NO.12, 1NO.12(G) FROM DOCKING STATION TO BRANCH CIRCUIT PANEL IN THE BUILDING. UTILIZE EXISTING SPARE BREAKER IN PANEL.
 - EXTEND 1" C W/CONDUCTORS AS REQUIRED TO THE SCADA PANEL; FIELD COORDINATE CONDUCTORS WITH SCADA VENDOR AND BGCJWSC.

1 ONE-LINE DIAGRAM

E4.8

SCALE: NONE

NOTES G6, G14, G16, G17



2 PARTIAL FLOOR PLAN

E4.8

SCALE: NONE

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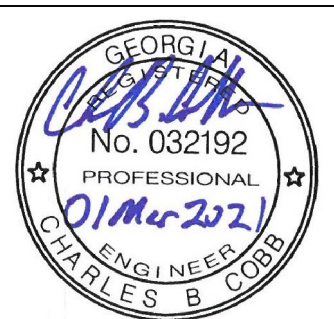


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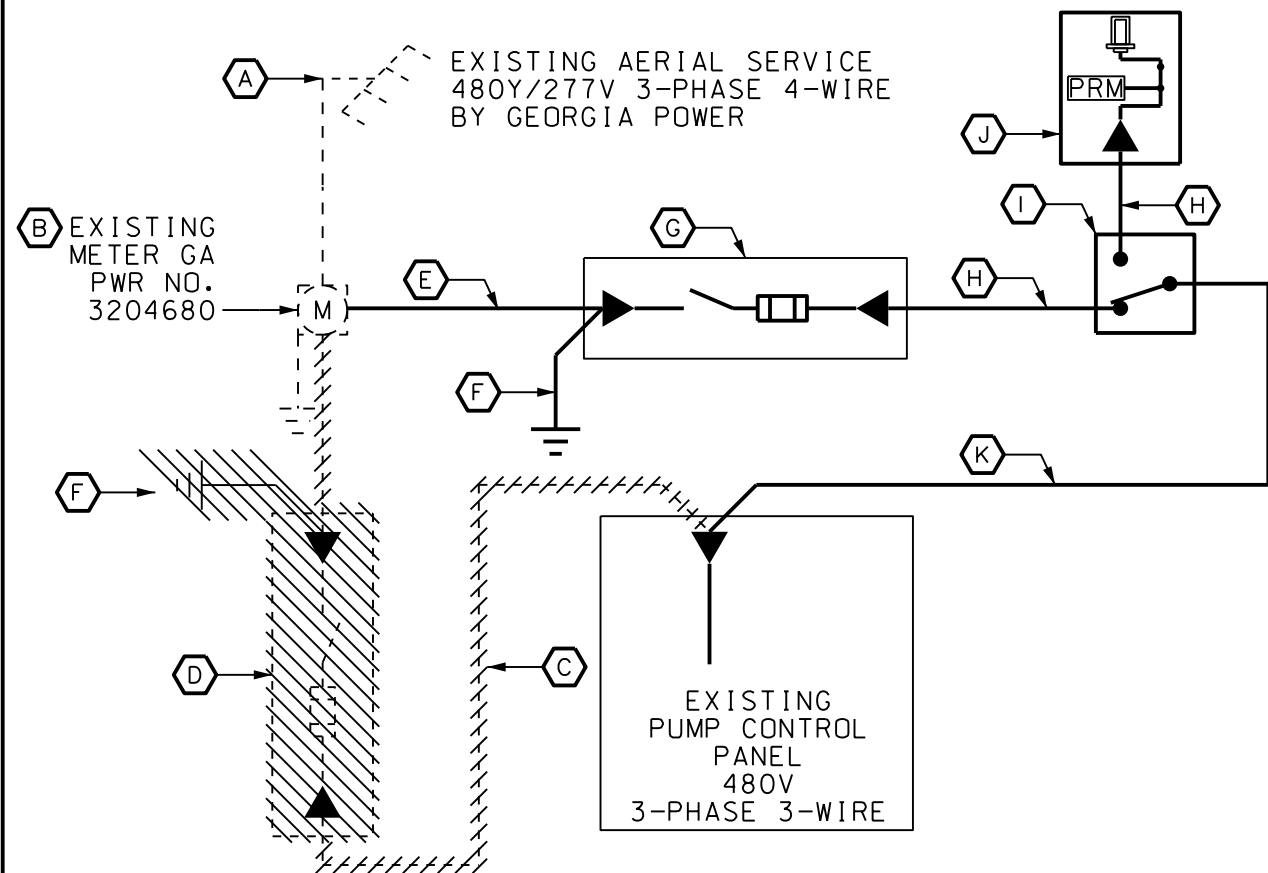


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PS 4036 ELECTRICAL
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DRAWN: LC	DATE: 01-MAR-2021
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APPROVED: CC	



1 ONE-LINE DIAGRAM

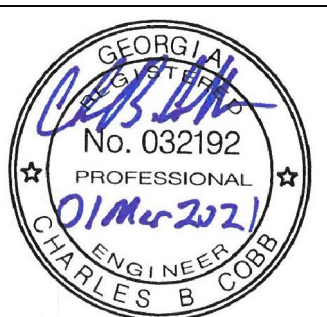
E4.9 SCALE: NONE NOTES G6, G13, G15, G16, G17

KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17
- (C) DEMOLISH THE EXISTING FEEDER FROM THE METER TO THE FUSED SWITCH AND FROM FUSED SWITCH TO THE PUMP CONTROL PANEL.
- (D) DEMOLISH THE EXISTING FUSED SWITCH.
- (E) NEW SERVICE: 2 1/2" C W/ 4 NO. 250MCM
- (F) NEW GEC: 3/4" SCH 80 PVC W/ 1 NO. 2(G) TO NEW GROUNDING DELTA
- (G) NEW SERVICE DISCONNECT FUSED SWITCH: 400A/3P/4XSS/250AF. MOUNT ON CHANNEL FRAME ATTACHED TO THE SERVICE POLE. INSTALL WITH BOTTOM NOT LESS THAN 30" ABOVE FINISHED GRADE AND HANDLE NOT MORE THAN 66" ABOVE FINISH GRADE.
- (H) NEW FEEDER: 2 1/2" C W/ 4 NO. 250MCM, 1 NO. 3(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH: 400A/3P/4XSS. NOTE G16
- (J) 400A/3P/4W/4XSS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16.
- (K) NEW FEEDER: 2 1/2" C W/ 3 NO. 250MCM, 1 NO. 3(G)

NOTES:

1. MOUNT THE NEW FUSED SWITCH TO THE SERVICE POLE. THE AUTOMATIC TRANSFER SWITCH AND DOCKING STATION SHALL BE MOUNTED ON A FREE-STANDING EQUIPMENT FRAME ADJACENT TO THE EXISTING CONTROL PANEL; FIELD COORDINATE THE LOCATION AND ORIENTATION OF THE NEW EQUIPMENT.
2. EXTEND NEW FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO THE CONTROL PANEL AS REQUIRED.



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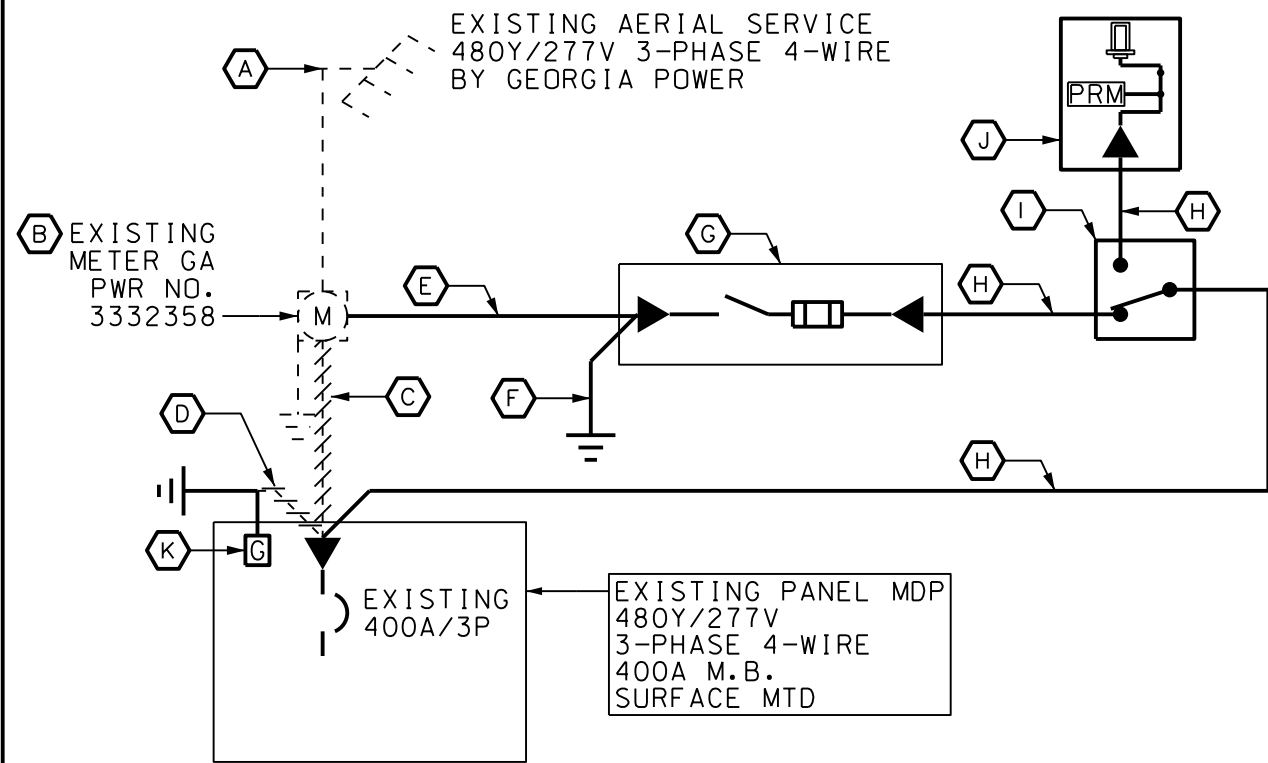
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PS 4039 ELECTRICAL
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DESIGNED: CC	SCALE: N.T.S.
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APPROVED: CC	



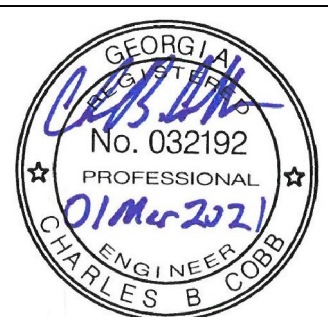
1 ONE-LINE DIAGRAM
E4.10 SCALE: NONE NOTES G6, G14, G15, G16, G17

KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER GA PWR NO. 3332358
- (C) DEMOLISH SERVICE FROM METER TO MDP
- (D) DISCONNECT SERVICE BOND FROM NEUTRAL BUS. REMOVE BONDING JUMPER/SCREW FROM NEUTRAL BUS TO FRAME.
- (E) NEW SERVICE. 3 1/2" C W/ 4NO.600MCM
- (F) NEW GEC. 3/4" SCH 80 PVC W/1NO.1/0(G) TO NEW GROUNDING DELTA, NOTE G15
- (G) NEW SERVICE DISCONNECT: 400A/3P/4XSS/400AF FUSED SWITCH
- (H) NEW FEEDER. 3 1/2" C W/ 4NO.600MCM, 1NO.3(G)
- (I) NEW AUTOMATIC TRANSFER SWITCH 400A/3P/4XSS, NOTE G16, G20
- (J) 400A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE 3, G16, G20
- (K) PROVIDE NEW MECHANICAL LUG ATTACHED TO PANEL INTERIOR. TERMINATE GEC TO NEW LUG. DO NOT BOND NEUTRAL.

NOTES:

1. PROVIDE FREE-STANDING EQUIPMENT FRAME AND CONCRETE PAD FOR THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION. REFER TO EQUIPMENT FRAME DETAIL, SHEET E0.1.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN. ROUTE FEEDER FROM ATS TO PANEL MDP UNDERGROUND AS REQUIRED. UTILIZE THE EXISTING WALL PENETRATIONS INTO PANEL MPD.
3. PROVIDE DOCKING STATION WITH AUTO-START TERMINALS, 20A 125V GFCI DUPLEX RECEPTACLE (HUBBELL GFWRST20) AND 5 PORT SCADA TERMINAL.
 - EXTEND 3/4" C W/3NO.14, 1NO.14(G) FROM DOCKING STATION TO ATS
 - EXTEND 3/4" C W/2NO.12, 1NO.12(G) FROM DOCKING STATION TO BRANCH CIRCUIT PANEL IN THE BUILDING. UTILIZE EXISTING SPARE BREAKER IN PANEL.
 - EXTEND 1" C W/CONDUCTORS AS REQUIRED TO THE SCADA PANEL; FIELD COORDINATE CONDUCTORS WITH SCADA VENDOR AND BGCJWSC.



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Water & Sewer Commission
11703 Gloucester Street
Brunswick, Georgia 31520



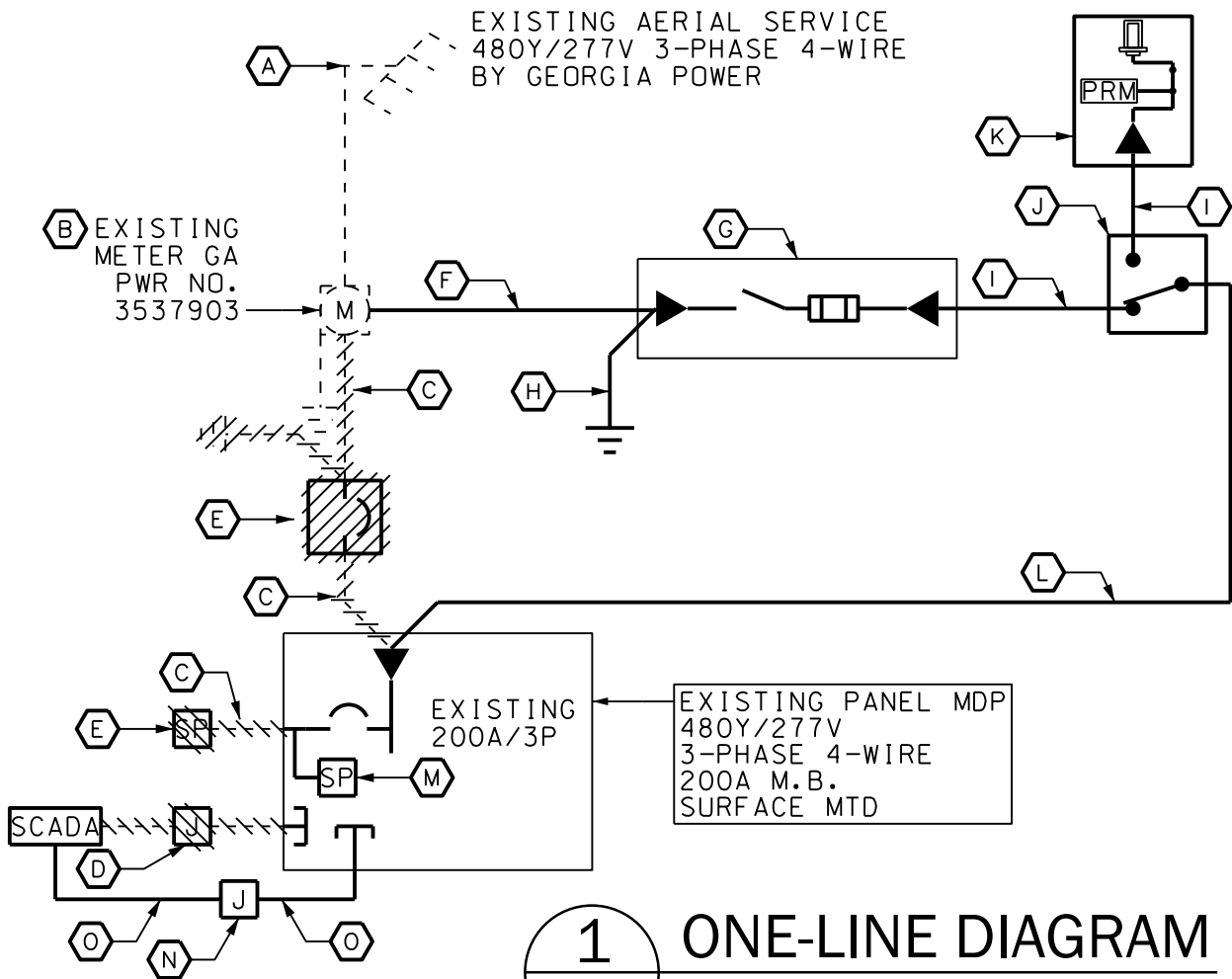
IFB NO. 20-032
Automatic Transfer Switch
& Docking Station
GEMA Grant Project



Chatham Engineering
109 Park of Commerce Dr
Suite 6
Savannah, Georgia 31405
912-238-2400
www.chathamengineering.com

PS 4048 ELECTRICAL
ONE-LINE DIAGRAM &
NOTES

DESIGNED: CC	SCALE: N.T.S.
DRAWN: LC	DATE: 01-MAR-2021
REVIEWED: PM	SHEET NUMBER: E4.10
APPROVED: CC	



KEYED NOTES:

- (A) EXISTING AERIAL SERVICE TO REMAIN.
- (B) EXISTING METER TO REMAIN. NOTE G6, G17.
- (C) DEMOLISH THE SERVICE FROM THE METER TO THE 200A ENCLOSED BREAKER. DEMOLISH THE FEEDER FROM THE BREAKER TO THE PUMP CONTROL PANEL. DEMOLISH THE CONDUIT AND CONDUCTORS FROM THE CONTROL PANEL TO THE SURGE PROTECTION DEVICE.
- (D) DEMOLISH FIBERGLASS JUNCTION BOX AT THE END OF THE EQUIPMENT FRAME. REMOVE CONDUCTORS FROM THE CONDUITS BACK TO THE CONTROL PANEL, FLOW METER CONTROLLER, SCADA PANEL, ETC.; CONDUCTORS SHALL BE RETAINED FOR REUSE. CONDUITS SHALL BE CUT 8" ABOVE SLAB.
- (E) DEMOLISH THE ENCLOSED BREAKER AND SURGE PROTECTION DEVICE.
- (F) NEW SERVICE: 2 1/2" C W/4NO.3/0.
- (G) NEW SERVICE DISCONNECT: 200A/3P/4XSS/200AF FUSED SWITCH. NOTE 1, G15.
- (H) NEW GEC: 3/4" SCH 80 PVC W/1NO.4(G) TO NEW GROUNDING DELTA. NOTE G15
- (I) NEW FEEDER: 2 1/2" C W/4NO.3/0, 1NO.6(G)
- (J) NEW AUTOMATIC TRANSFER SWITCH 200A/3P/4XSS, NOTE G16
- (K) 200A/3P/4W/4X SS 480Y/277V TRYSTAR DOCKING STATION WITH PHASE ROTATION MONITOR AND MALE CAM-LOK CONNECTIONS. NOTE G16.
- (L) NEW FEEDER: 2 1/2" C W/3NO.3/0, 1NO.6(G)
- (M) NEW SURGE PROTECTION: SQUARE D SDSA SERIES, CAT. NO. SDSA4040D, A SURGE CURRENT PER PHASE. NOTE 4.
- (N) NEW 6" X 6" X LENGTH AS REQUIRED WIRING TROUGH. MOUNT ON TOP OF CONDUIT STUB UPS. SEE NOTE D. PROVIDE NEMA 4X STAINLESS STEEL SCREW OVER TROUGH.
- (O) NEW CONDUITS WITH SIGNAL CONDUCTORS TO SCADA. EXTEND THREE 1" C TO THE SCADA PANEL WITH CONDUCTORS AS REQUIRED. ALL CONDUITS SHALL BE TERMINATED WITH THREADED HUBS. NO TOP PENETRATIONS OF THE WIRING TROUGH OR SCADA PANEL PERMITTED.

NOTES:

1. MOUNT THE NEW FUSED SWITCH, AUTOMATIC TRANSFER SWITCH AND DOCKING STATION TO THE EXISTING EQUIPMENT RACK.
2. EXTEND NEW SERVICE AND FEEDER CONDUITS & CONDUCTORS AS SHOWN.
3. PROVIDE ALUMINUM B-LINE B22 CHANNEL FOR SUPPORT OF THE WIRING TROUGH.
4. MOUNT THE NEW SURGE PROTECTION WITHIN THE CONTROL PANEL. CONDUCTORS FURNISHED WITH SPD BY MANUFACTURER.



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