



**PROJECT DESIGN SEGMENT 20413
DINSMORE SUBSTATION
CABLE SCHEDULE**

CABLE NOTES:

1. CABLE SHALL BE FURNISHED BY PARTY DESIGNATED IN REMARKS COLUMN.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CABLE LENGTHS. CABLE LENGTHS LISTED ARE APPROXIMATE.
3. CABLES SHOWN IN **RED** ON THIS SCHEDULE WILL BE INSTALLED BY SUBSTATION CONTRACTOR.
4. CABLES SHOWN IN **MAGENTA HIGHLIGHTING** ON THIS SCHEDULE WILL BE INSTALLED BY JEA TELECOM.
5. CABLES SHOWN IN **GREEN** WILL BE PROVIDED AND INSTALLED BY KEMCO.

CABLE LEGEND:

- A - THHN INSULATED COPPER CONDUCTOR, RATED 600V
- B - NON SHIELDED CONTROL CABLE
- BS - SHIELDED CONTROL CABLE
- C - RHW, THHW, OR THWN INSULATED COPPER CONDUCTOR, RATED 600V
- F - INSTRUMENT CABLE
- FO - FIBER OPTIC CABLE
- S - SINGLE CONDUCTOR
- M - MULTIPLE CONDUCTOR
- W- FLEXIBLE WELDING CABLE

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CABLE SCHEDULE DINSMORE SUBSTATION

| CABLE # | FROM | TO | VOLT | SIZE | #C | S/M | TYPE | LNTH ckt ft | CONDUIT # | REMARKS |
|---|---|---|------|------|----|-----|------|----------------|---------------------------------|---|
| BREAKER 25T1 | | | | | | | | | | |
| 25T1/C3 | BKR 25T1 | 25KV PNL 16 | 600 | 10 | 4 | M | BS | 320 | 25T1C5, CT2, CT1, TRAY | BKR 25T1 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| DG LINE 423 REVENUE METERING CT & PT UNITS | | | | | | | | | | |
| 423MT/CTA | 25KV DG LINE 423 REVENUE METERING CT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC4 | 25KV DG LINE 423 CT PHASE "A" (CABLE PROVIDED BY JEA) |
| 423MT/CTB | 25KV DG LINE 423 REVENUE METERING CT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC4, 423METC5 | 25KV DG LINE 423 CT PHASE "B" (CABLE PROVIDED BY JEA) |
| 423MT/CTC | 25KV DG LINE 423 REVENUE METERING CT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC4, 423METC5, 423METC6 | 25KV DG LINE 423 CT PHASE "C" (CABLE PROVIDED BY JEA) |
| 423MT/PTA | 25KV DG LINE 423 REVENUE METERING PT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC7 | 25KV DG LINE 423 PT PHASE "A" (CABLE PROVIDED BY JEA) |
| 423MT/PTB | 25KV DG LINE 423 REVENUE METERING PT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC7, 423METC8 | 25KV DG LINE 423 PT PHASE "B" (CABLE PROVIDED BY JEA) |
| 423MT/PTC | 25KV DG LINE 423 REVENUE METERING PT | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 4 | M | BS | 15 | 423METC7, 423METC8, 423METC9 | 25KV DG LINE 423 PT PHASE "C" (CABLE PROVIDED BY JEA) |
| 423MT/PT | 25KV DG LINE 423 JUNCTION BOX 423METJB | PANEL 23 | 600 | 10 | 4 | M | BS | 375 | 423METC1, CT3, TRAY | 25KV DG LINE 423 PT TO CEE (CABLE PROVIDED BY JEA) |
| 423MT/CT | 25KV DG LINE 423 JUNCTION BOX 423METJB | PANEL 23 | 600 | 10 | 4 | M | BS | 375 | 423METC2, CT3, TRAY | 25KV DG LINE 423 CT TO CEE (CABLE PROVIDED BY JEA) |
| 423MT/AC | AC YARD PNL 5YP1-1P | 25KV DG LINE 423 JUNCTION BOX 423METJB | 600 | 10 | 2 | M | C | 145 | 5YP1C4, CT3, 423METC3 | 120VAC POWER FOR HEATER (CABLE PROVIDED BY CONTRACTOR) |
| DG LINE 424 REVENUE METERING CT & PT UNITS | | | | | | | | | | |
| 424MT/CTA | 25KV DG LINE 424 REVENUE METERING CT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC4, 424METC5, 424METC6 | 25KV DG LINE 424 CT PHASE "A" (CABLE PROVIDED BY JEA) |
| 424MT/CTB | 25KV DG LINE 424 REVENUE METERING CT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC4, 424METC5 | 25KV DG LINE 424 CT PHASE "B" (CABLE PROVIDED BY JEA) |
| 424MT/CTC | 25KV DG LINE 424 REVENUE METERING CT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC4 | 25KV DG LINE 424 CT PHASE "C" (CABLE PROVIDED BY JEA) |
| 424MT/PTA | 25KV DG LINE 424 REVENUE METERING PT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC7, 424METC8, 424METC9 | 25KV DG LINE 424 PT PHASE "A" (CABLE PROVIDED BY JEA) |
| 424MT/PTB | 25KV DG LINE 424 REVENUE METERING PT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC7, 424METC8 | 25KV DG LINE 424 PT PHASE "B" (CABLE PROVIDED BY JEA) |
| 424MT/PTC | 25KV DG LINE 424 REVENUE METERING PT | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 4 | M | BS | 15 | 424METC7 | 25KV DG LINE 424 PT PHASE "C" (CABLE PROVIDED BY JEA) |
| 424MT/PT | 25KV DG LINE 424 JUNCTION BOX 424METJB | PANEL 24 | 600 | 10 | 4 | M | BS | 400 | 424METC1, CT3, TRAY | 25KV DG LINE 424 PT TO CEE (CABLE PROVIDED BY JEA) |
| 424MT/CT | 25KV DG LINE 424 JUNCTION BOX 424METJB | PANEL 24 | 600 | 10 | 4 | M | BS | 400 | 424METC2, CT3, TRAY | 25KV DG LINE 424 CT TO CEE (CABLE PROVIDED BY JEA) |

CABLE SCHEDULE DINSMORE SUBSTATION

| CABLE # | FROM | TO | VOLT | SIZE | #C | S/M | TYPE | LNTH ckt ft | CONDUIT # | REMARKS |
|---|---|---|------|------|----|-----|------|----------------|----------------------------|--|
| 424MT/AC | 25KV DG LINE 423 JUNCTION BOX 423METJB | 25KV DG LINE 424 JUNCTION BOX 424METJB | 600 | 10 | 2 | M | C | 200 | 423METC3, CT3, 424METC3 | 120VAC POWER FOR HEATER (CABLE PROVIDED BY CONTRACTOR) |
| CONTROL BUILDING CIRCUITS | | | | | | | | | | |
| P23/AC | AC POWER PNL ACP-2 | 26KV PNL 23 | 600 | 10 | 2 | M | B | 40 | ACP2W1, TRAY | 26KV PNL 23 THRU 24 – AC POWER (CABLE PROVIDED BY CONTRACTOR) |
| P23P24/AC | 26KV PNL 23 | 26KV PNL 24 | 600 | 10 | 2 | M | B | 20 | TRAY | 26KV PNL 23 THRU 24 – AC POWER (CABLE PROVIDED BY CONTRACTOR) |
| CONTROL HOUSE 125 VDC BATTERY SYSTEM | | | | | | | | | | |
| P23/DC1 | DC POWER PNL DCP-1 | 25KV PNL 23 | 600 | 10 | 2 | M | B | 40 | TRAY, DCP1AW3 | DC POWER SUPPLY #1 (CABLE PROVIDED BY CONTRACTOR) |
| P23/DC2 | DC POWER PNL DCP-2 | 25KV PNL 23 | 600 | 10 | 2 | M | B | 40 | TRAY, DCP2AW3 | DC POWER SUPPLY #2 (CABLE PROVIDED BY CONTRACTOR) |
| P24/DC1 | DC POWER PNL DCP-1 | 25KV PNL 24 | 600 | 10 | 2 | M | B | 40 | TRAY, DCP1AW3 | DC POWER SUPPLY #1 (CABLE PROVIDED BY CONTRACTOR) |
| P24/DC2 | DC POWER PNL DCP-2 | 25KV PNL 24 | 600 | 10 | 2 | M | B | 35 | TRAY, DCP2AW3 | DC POWER SUPPLY #2 (CABLE PROVIDED BY CONTRACTOR) |
| P2P18/C1 | PANEL 2 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P2P18/C2 | PANEL 2 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P2P18/C3 | PANEL 2 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P2P18/C4 | PANEL 2 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P3P18/C1 | PANEL 3 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P3P18/C2 | PANEL 3 | PANEL 18 | 600 | 10 | 2 | M | B | 40 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P4P18/C1 | PANEL 4 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P4P18/C2 | PANEL 4 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P4P18/C3 | PANEL 4 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P4P18/C4 | PANEL 4 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P5P18/C1 | PANEL 5 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |

CABLE SCHEDULE DINSMORE SUBSTATION

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| CABLE # | FROM | TO | VOLT | SIZE | #C | S/M | TYPE | LNPTH ckt ft | CONDUIT # | REMARKS |
|-----------|----------|----------|------|-------|----|-----|------|-----------------|-----------|---|
| P5P18/C2 | PANEL 5 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P5P18/C3 | PANEL 5 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 423 AITT (CABLE PROVIDED BY JEA) |
| P5P18/C4 | PANEL 5 | PANEL 18 | 600 | 10 | 2 | M | B | 35 | TRAY | DG LINE 424 AITT (CABLE PROVIDED BY JEA) |
| P6P23/C1 | PANEL 6 | PANEL 23 | 600 | 18 | 2 | M | B | 35 | TRAY | BUCAM FAIL TO ANNUNCIATOR (CABLE PROVIDED BY JEA) |
| P16P18/C1 | PANEL 16 | PANEL 18 | 600 | 10 | 2 | M | B | 25 | TRAY | BKR 25T1 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| P16P18/C2 | PANEL 16 | PANEL 18 | 600 | 10 | 2 | M | B | 25 | TRAY | BKR 25T1 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| P16P23/C1 | PANEL 16 | PANEL 23 | 600 | 10 | 2 | M | B | 35 | TRAY | BKR 25T1 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| P18P23/C1 | PANEL 18 | PANEL 23 | 600 | 10 | 4 | M | B | 30 | TRAY | 25KV BUS 1 POT (CABLE PROVIDED BY JEA) |
| P18P23/C2 | PANEL 18 | PANEL 23 | 600 | 10 | 2 | M | B | 30 | TRAY | BKR 423 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| P18P23/C3 | PANEL 18 | PANEL 23 | 600 | 10 | 8 | M | B | 30 | TRAY | BKR 423 DFR IND (CABLE PROVIDED BY JEA) |
| P18P23/C4 | PANEL 18 | PANEL 23 | 600 | 10 | 4 | M | B | 30 | TRAY | BKR 423 CT (CABLE PROVIDED BY JEA) |
| P18P24/C1 | PANEL 18 | PANEL 24 | 600 | 10 | 4 | M | B | 35 | TRAY | 25KV BUS 1 POT (CABLE PROVIDED BY JEA) |
| P18P24/C2 | PANEL 18 | PANEL 24 | 600 | 10 | 2 | M | B | 35 | TRAY | BKR 424 AUX CONTACTS (CABLE PROVIDED BY JEA) |
| P18P24/C3 | PANEL 18 | PANEL 24 | 600 | 10 | 8 | M | B | 35 | TRAY | BKR 424 DFR IND (CABLE PROVIDED BY JEA) |
| P18P24/C4 | PANEL 18 | PANEL 24 | 600 | 10 | 4 | M | B | 35 | TRAY | BKR 424 CT (CABLE PROVIDED BY JEA) |
| RTU/PR423 | PANEL 6 | PANEL 23 | | CA605 | | | | 35 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| RTU/PR424 | PANEL 6 | PANEL 23 | | CA605 | | | | 35 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| RTU/BU423 | PANEL 6 | PANEL 23 | | CA605 | | | | 35 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| RTU/BU424 | PANEL 6 | PANEL 23 | | CA605 | | | | 35 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| BU/COM1 | PANEL 23 | PANEL 23 | | C432 | | | | 15 | TRAY | ETHERNET CABLE |

CABLE SCHEDULE DINSMORE SUBSTATION

| CABLE # | FROM | TO | VOLT | SIZE | #C | S/M | TYPE | LNPTH ckt ft | CONDUIT # | REMARKS |
|-------------|----------|-----------|------|--------|----|-----|------|-----------------|-----------|---|
| SPP/P9 | PANEL 24 | PANEL 23 | | C808 | | | | 20 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| SPP/P7 | PANEL 24 | PANEL 23 | | C808 | | | | 20 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| SPP/P5 | PANEL 24 | PANEL 23 | | C808 | | | | 20 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| SPP/P4 | PANEL 24 | PANEL 23 | | C808 | | | | 20 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| SPP/P8 | PANEL 23 | PANEL 23 | | C808 | | | | 15 | TRAY | ETHERNET CABLE |
| SPP/P6 | PANEL 23 | PANEL 23 | | C808 | | | | 15 | TRAY | ETHERNET CABLE |
| SPP/P3 | PANEL 23 | PANEL 23 | | C808 | | | | 15 | TRAY | ETHERNET CABLE |
| SPP/P2 | PANEL 23 | PANEL 23 | | C808 | | | | 15 | TRAY | ETHERNET CABLE |
| SOCC/BU1 | PANEL 23 | COMM RACK | | C432 | | | | 50 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| BUCC/BU1 | PANEL 23 | COMM RACK | | C432 | | | | 50 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| | | | | | | | | | | |
| BUCAM/COM4 | PANEL 23 | PANEL 23 | | CA605 | | | | 15 | TRAY | ETHERNET CABLE |
| BUCAM/COM5 | PANEL 23 | PANEL 23 | | CA605 | | | | 15 | TRAY | ETHERNET CABLE |
| BUCAM/COM6 | PANEL 23 | PANEL 23 | | CA605 | | | | 15 | TRAY | ETHERNET CABLE |
| BUCAM/COM7 | PANEL 23 | PANEL 23 | | CA605 | | | | 15 | TRAY | ETHERNET CABLE |
| | | | | | | | | | | |
| FRP/FO1 | PANEL 23 | COMM RACK | | C809 | | | | 50 | TRAY | FIBER CABLE (CABLE PROVIDED BY JEA SPCP) |
| FRP/FO2 | PANEL 23 | COMM RACK | | C809 | | | | 50 | TRAY | FIBER CABLE (CABLE PROVIDED BY JEA SPCP) |
| | | | | | | | | | | |
| ION/423 | PANEL 23 | COMM RACK | | CA605R | | | | 50 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| ION/424 | PANEL 24 | COMM RACK | | CA605R | | | | 55 | TRAY | ETHERNET CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| ESDFR/P4 | PANEL 6 | PANEL 23 | | CA605 | | | | 35 | TRAY | ETHERNET CABLE (CABLE PROVIDED BY JEA SPCP) |
| ESDFR/P5 | PANEL 6 | PANEL 24 | | CA605 | | | | 40 | TRAY | ETHERNET CABLE (CABLE PROVIDED BY JEA SPCP) |
| DTT-423/F01 | PANEL 18 | COMM RACK | | C809 | | | | 40 | TRAY | FIBER CABLE (CABLE PROVIDED BY JEA SPCP) |
| DTT-424/F01 | PANEL 18 | COMM RACK | | C809 | | | | 40 | TRAY | FIBER CABLE (CABLE PROVIDED BY JEA SPCP) |

**CABLE SCHEDULE
DINSMORE SUBSTATION**

| CABLE # | FROM | TO | VOLT | SIZE | #C | S/M | TYPE | LNPTH ckt ft | CONDUIT # | REMARKS |
|----------------|----------|----------|------|------|----|-----|------|-----------------|-----------|---|
| DFRIRIG/P2P23 | PANEL 2 | PANEL 23 | | C953 | | | | 45 | TRAY | COAX CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| DFRIRIG/P23P24 | PANEL 23 | PANEL 24 | | C953 | | | | 20 | TRAY | COAX CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |
| RLYIRIG/P2P23 | PANEL 2 | PANEL 23 | | C953 | | | | 45 | TRAY | COAX CABLE BY JEA (CABLE PROVIDED BY JEA SPCP) |