



**SYSTEM PROTECTION AND CONTROL PROJECTS 788-138
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION
FINAL CABLE SCHEDULE**

CABLE NOTES:

1. TYPE B, BS, F, AND FO CABLE SHALL BE FURNISHED BY THE OWNER, UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR SHALL FURNISH ALL OTHER CABLE, AS SPECIFIED.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CABLE LENGTHS. CABLE LENGTHS LISTED ARE APPROXIMATE.

CABLE LEGEND:

- A - THHN INSULATED COPPER CONDUCTOR, RATED 600V
- B - 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

FILE: SJRPP T1 ADDITION FINAL CABLE PULL SCHEDULE

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CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
BREAKER 937T1										
937T1/T1PR-1	BREAKER 937T1	PANEL 2	600	10	4	M		680		TRANSFORMER PROTECTION PRI
937T1/T1PR-2	BREAKER 937T1	PANEL 2	600	10	4	M		680		TRANSFORMER PROTECTION PRI
937T1/T1SC-1	BREAKER 937T1	PANEL 2	600	10	4	M		680		TRANSFORMER PROTECTION SEC
937T1/T1SC-2	BREAKER 937T1	PANEL 2	600	10	4	M		680		TRANSFORMER PROTECTION SEC
151/79A	BREAKER 937T1	PANEL 41	600	10	4	M		680		52A FOR 87T1-9T1
151/78D	BREAKER 937T1	PANEL 62	600	10	4	M		680		52A FOR 87T2-9T1
BREAKER 9T1W										
9T1W/T1SC-1	PANEL 62	PANEL 2	600	10	4	M		680		BACKUP PROTECTION TRANSFORMER T1
9T1W/T1SC-2	PANEL 62	PANEL 2	600	10	4	M		680		BACKUP PROTECTION TRANSFORMER T1
9T1W/T1PR-1	BREAKER 9T1W	PANEL 2	600	10	4	M		680		PRIMARY PROTECTION TRANSFORMER T1
9T1W/T1PR-2	BREAKER 9T1W	PANEL 2	600	10	4	M		680		PRIMARY PROTECTION TRANSFORMER T1
9T1W/WDBD	BREAKER 9T1W	BT111P	600	10	4	M		680		WEST BUS DIFF-B
9T1W/BKRF-1	BREAKER 9T1W	PANEL 62	600	10	4	M		680		BRKR 9T1 BREAKER FAILURE

CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
9T1W/BKRF-2	BREAKER 9T1W	PANEL 62	600	10	4	M		680		BRKR 9T1 BREAKER FAILURE
9T1W/WBDA-1	BREAKER 9T1W	PANEL 32	600	10	4	M		680		WEST BUS DIFF-A
9T1W/WBDA-2	BREAKER 9T1W	PANEL 32	600	10	4	M		680		WEST BUS DIFF-A
9T1W/WBDB	BREAKER 9T1W	230KV BUS DIFF JB	600	10	4	M		300		WEST BUS DIFF-B
9T1W/BKRF-1	BREAKER 9T1W	PANEL 62	600	10	4	M		680		BACKUP PROTECTION TRANSFORMER T1
9T1W/BKRF-2	BREAKER 9T1W	PANEL 62	600	10	4	M		680		BACKUP PROTECTION TRANSFORMER T1
9T1W/PR-1	BREAKER 9T1W	PANEL 2	600	10	4	M		680		PRIMARY PROTECTION TRANSFORMER T1
9T1W/PR-2	BREAKER 9T1W	PANEL 2	600	10	4	M		680		PRIMARY PROTECTION TRANSFORMER T1
9T1W/C1	BREAKER 9T1W	PANEL 41	600	10	21	M		680		9T1W TRIP,CLOSE, STATUS
9T1W/C2	BREAKER 9T1W	PANEL 62	600	10	21	M		680		9T1W TRIP,CLOSE, STATUS, ALARMS
9T1W/AC1	BREAKER 9T1W	AC PANEL	600	8	3	M		330		AC POWER
PT LT1										
T1/PTJB	PT LT1	PANEL 2	600	10	8	M		820		XFMR T1 POTENTIAL HI-SIDE
T1PT3/JB	PT LT1	PANEL 62	600	10	4	M		820		XFMR T1 POTENTIAL HI-SIDE
T1PT/AC	PT LT1	AC PANEL	600	8	3	M		610		AC POWER
TRANSFORMER T1										

CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
T1/G	TRANSFORMER 1	PANEL 2	600	10	4	M		460		GROUND OVERCURRENT
T1/SP1	TRANSFORMER 1	PANEL 2	600	10	4	M		460		SPARE CONDUCTOR
T1/SP2	TRANSFORMER 1	PANEL 2	600	10	4	M		460		SPARE CONDUCTOR
T1/POT	TRANSFORMER 1	PANEL 2	600	10	4	M		460		SPARE CONDUCTOR
T1/T1SC-1	TRANSFORMER 1	PANEL 2	600	10	4	M		460		TRANSFORMER SEC DIFF
T1/T1SC-2	TRANSFORMER 1	PANEL 2	600	10	4	M		460		TRANSFORMER SEC DIFF
T1/C1	TRANSFORMER 1	PANEL 2	600	10	21	M		460		TRANSFORMER MONITOR
T1/C2	TRANSFORMER 1	PANEL 3	600	10	21	M		460		TRANSFORMER CONTROL
T1/PH-1	TRANSFORMER 1	PANEL 3	600	10	4	M		460		OVER CURRENT
T1/PH-2	TRANSFORMER 1	PANEL 3	600	10	4	M		460		OVER CURRENT
T1/FO	TRANSFORMER 1	PANEL 1				FO		460		TRANSFORMER ALARMS
T1/DC	TRANSFORMER 1	DC PANEL 2	600	10	4	M		460		DC POWER
T1/AC	TRANSFORMER 1	AC PANEL	600	8	4	M		210		AC POWER
BREAKER 25T1										
25T1/TD-1	BREAKER 25T1	PANEL 2	600	10	4	M		440		T1 XFMR PRI DIFF
25T1/TD-2	BREAKER 25T1	PANEL 2	600	10	4	M		440		T1 XFMR PRI DIFF
25T1/BD	BREAKER 25T1	PANEL 4	600	10	4	M		440		26KV BUS DIFFERENTIAL
25T1/C1	BREAKER 25T1	PANEL 3	600	10	21	M		440		TC1 AND TC2, CLOSE
25T1C2	BREAKER 25T1	PANEL 3	600	10	8	M		440		BREAKER STATUS
25T1/AC	BREAKER 25T1	AC PANEL	600	8	3	M		360		AC POWER

CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNTH ckt ft	CONDUIT #	REMARKS
BREAKER 251										
251/PH	BREAKER 251	PANEL 5	600	10	4	M		440		OVER CURRENT
251/BD	BREAKER 251	PANEL 4	600	10	4	M		440		BUS DIFF.
251/C1	BREAKER 251	PANEL 5	600	10	21	M		440		TC1 AND TC2, CLOSE
251/AC	BREAKER 251	AC PANEL	600	8	3	M		210		AC POWER
BREAKER 252										
252/PH	BREAKER 252	PANEL 5	600	10	4	M		430		OVER CURRENT
252/BD	BREAKER 252	PANEL 4	600	10	4	M		430		BUS DIFF.
252/C1	BREAKER 252	PANEL 5	600	10	21	M		430		TC1 AND TC2, CLOSE
252/AC	BREAKER 252	AC PANEL	600	8	3	M		190		AC POWER
BREAKER 253										
253/PH	BREAKER 253	PANEL 5	600	10	4	M		420		OVER CURRENT
253/BD	BREAKER 253	PANEL 4	600	10	4	M		420		BUS DIFF.
253/C1	BREAKER 253	PANEL 5	600	10	21	M		420		TC1 AND TC2, CLOSE
253/AC	BREAKER 253	AC PANEL	600	8	3	M		180		AC POWER
CAPSWITCHER 25C1										
25C1CT/PHA	PHASE A CT	25C1 CT JB	600	10	4	M		40		26KV BUS DIFF
25C1CT/PHB	PHASE B CT	25C1 CT JB	600	10	4	M		40		26KV BUS DIFF
25C1CT/PHC	PHASE C CT	25C1 CT JB	600	10	4	M		40		26KV BUS DIFF
25C1/NPT	CAP BANK NEUTRAL PT	CAPSWITCHER 25C1	600	10	4	M		50		CAP BANK POTENTIAL
25C1/C1	CAPSWITCHER 25C1	PANEL 3	600	10	21	M		450		CONTROL/ALARMS
25C1/LUC	CAPSWITCHER 25C1	25C1 LUC RELAY	600	10	8	M		50		NEUTRAL UNBALANCE PROTECTION
25C1/BD	26KV CAP BANK JUNCT. BOX	PANEL 4	600	10	4	M		440		BUS DIFF
25C1/AC	CAPSWITCHER 25C1	AC PANEL	600	8	3	M		230		AC POWER

CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
26KV BUS 1 PT STATION SERVICE										
25T1PT/PHA	PHASE A PT	26KV BUS 1 PT JUNCT. BOX	600	10	4	M		50		26KV BUS POT
25T1PT/PHB	PHASE B PT	26KV BUS 1 PT JUNCT. BOX	600	10	4	M		50		26KV BUS POT
25T1PT/PHC	PHASE C PT	26KV BUS 1 PT JUNCT. BOX	600	10	4	M		50		26KV BUS POT
25T1PT/JB	26KV BUS 1 PT JUNCT. BOX	PANEL 4	600	10	4	M		450		26KV BUS POT
25T1PT/AC	26KV BUS 1 PT	AC PANEL	600	8	3	M		170		AC POWER
26KV BUS 1 CT STATION SERVICE										
SS1CT/PHA	26KV CT SERVICE	CT JUNCTION BOX	600	10	4	M		460		26KV BUS CT
SS1CT/PHB	26KV CT SERVICE	CT JUNCTION BOX	600	10	4	M		460		26KV BUS CT
SS1CT/PHC	26KV CT SERVICE	CT JUNCTION BOX	600	10	4	M		460		26KV BUS CT
SSB1/BD	CT JUNCTION BOX	PANEL 4	600	10	4	M		440		BUS DIFF
SST1/AC	26KV CT SERVICE	AC PANEL	600	8	3	M		320		AC POWER
PANEL 1										
P1P2/C1	PANEL 1	PANEL 2	600	10	4	M		80		
P1P2/C2	PANEL 1	PANEL 2	600	10	4	M		80		
P1P2/C3	PANEL 1	PANEL 2	600	10	8	M		80		
BC1/ALM	BAT. CHARGER 1 ALARM	PANEL 1	600	18	2	S		70		BATTERY CHARGER 1 ALARM
BC2/ALM	BAT. CHARGER 2 ALARM	PANEL 1	600	18	2	S		70		BATTERY CHARGER 2 ALARM
DA1/ALM1	DOOR	PANEL 1	600	18	2	S		100		DOOR ALARM 1 (JEA SECURITY TO FURNISH AND PULL)
DA2/ALM2	DOOR	PANEL 1	600	18	2	S		100		DOOR ALARM 2 DOOR (JEA SECURITY TO FURNISH AND PULL)
HD/ALM	SMOKE DETECTOR	PANEL 1	600	18	2	S		300		HEAT DETECTION (JEA SECURITY TO FURNISH AND PULL)

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CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
P1/DC1	DC PANEL 1	PANEL 1	600	10	4	M		80		DC POWER
P1/DC2	DC PANEL 2	PANEL 1	600	10	4	M		80		DC POWER
P1/AC	AC PANEL ACP-2	PANEL 1	600	10	3	M		50		AC POWER
PANEL 2										
P2P3/C1	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C2	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C3	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C4	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C5	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C6	PANEL 2	PANEL 3	600	10	4	M		70		
P2P3/C7	PANEL 2	PANEL 3	600	10	4	M		70		
P2P5/C1	PANEL 2	PANEL 5	600	10	4	M		70		
P2/DC1	DC PANEL 1	PANEL 2	600	10	4	M		80		DC POWER
P2/DC2	DC PANEL 2	PANEL 2	600	10	4	M		80		DC POWER
P1P2/AC	AC PANEL 1	PANEL 2	600	10	3	M		10		AC POWER
P2P3/AC	PANEL 2	PANEL 3	600	10	3	M		10		AC POWER
PANEL 3										
P3P4/C1	PANEL 3	PANEL 4	600	10	8	M		70		
P3P4/C2	PANEL 3	PANEL 4	600	10	8	M		70		
P3P4/C4	PANEL 3	PANEL 4	600	10	4	M		70		
P3/DC1	DC PANEL 1	PANEL 3	600	10	4	M		80		DC POWER
PANEL 4										
P4P5/C1	PANEL 4	PANEL 5	600	10	8	M		70		
P4P5/C2	PANEL 4	PANEL 5	600	10	8	M		70		
P4P5/C3	PANEL 4	PANEL 5	600	10	8	M		70		

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SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
P4P5/C5	PANEL 4	PANEL 5	600	10	8	M		70		
P4/DC1	DC PANEL 1	PANEL 4	600	10	4	M		80		DC POWER
P4/AC	AC PANEL ACP-2	PANEL 4	600	10	3	M		70		AC POWER
P4P5/AC	PANEL 4	PANEL 5	600	10	3	M		10		AC POWER
PANEL 5										
P5/DC1	DC PANEL 1	PANEL 5	600	10	4	M		80		DC POWER
PANEL 32										
P32P41/1	PANEL 32	PANEL 41	600	10	4	M		120		
P32P62/C5	PANEL 32	PANEL 62	600	10	4	M		120		
PANEL 41										
P2P41/C1	PANEL 41	PANEL 2	600	10	4	M		100		
P2P41/C2	PANEL 41	PANEL 2	600	10	4	M		100		
P41P2/C3	PANEL 41	PANEL 2	600	10	4	M		100		
P2P41/C6	PANEL 41	PANEL 2	600	10	4	M		100		
P41P2/C9	PANEL 41	PANEL 2	600	10	4	M		100		
P41P2/C10	PANEL 41	PANEL 2	600	10	4	M		100		
P41P2/C11	PANEL 41	PANEL 2	600	10	4	M		100		
P41P62/C6	PANEL 41	PANEL 62	600	10	4	M		100		
P62P41/C7	PANEL 41	PANEL 62	600	10	4	M		100		
P41P62/C8	PANEL 41	PANEL 62	600	10	4	M		100		
P62P41/21	PANEL 41	PANEL 62	600	10	4	M		100		
P62P41/22	PANEL 41	PANEL 62	600	10	4	M		100		
P41P62/23	PANEL 41	PANEL 62	600	10	4	M		100		
P41/DC	DC PANEL 1	PANEL 41	600	10	4	M		100		
PANEL 62										

CABLE SCHEDULE
SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNPTH ckt ft	CONDUIT #	REMARKS
P61P62/7	PANEL 61	PANEL 62	600	10	4	M		100		
PANEL 62										
P62P1/C1	PANEL 62	PANEL 1	600	10	4	M		100		
P2P62/C4	PANEL 62	PANEL 2	600	10	4	M		100		
P62P2/C5	PANEL 62	PANEL 2	600	10	4	M		100		
P62P2/C6	PANEL 62	PANEL 2	600	10	4	M		100		
P2P62/C11	PANEL 62	PANEL 2	600	10	4	M		100		
P62P3/C3	PANEL 62	PANEL 2	600	10	4	M		100		
COMMUNICATION										
IRIG/RTU	PANEL 1	PANEL 1				F	SEL-C972	6		2488 TO 3350
2488	PANEL 1	ANTENNA				F	SEL-C960	75		
DFRIRIG/P1P1	PANEL 1	PANEL 1				F	SEL-C953	6		2488 TO DFR 1
RLYIRIG/P1P2-2	PANEL 1	PANEL 2				F	SEL-C953	25		2488 TO 87T2-T1
RLYIRIG/P1P2-1	PANEL 1	PANEL 2				F	SEL-C953	25		2488 TO 87T1-T1
RLYIRIG/P2P3	PANEL 2	PANEL 3				F	SEL-C953	25		87T1-T1 TO 451-25T1
RLYIRIG/P2P5	PANEL 2	PANEL 5				F	SEL-C953	25		87T2-T1 TO 451-251
RLYIRIG/P3P4	PANEL 3	PANEL 4				F	SEL-C953	25		451-25T1 TO 87B-B1
RLYIRIG/P5P5-1	PANEL 5	PANEL 5				F	SEL-C953	6		451-251 TO 451-252
RLYIRIG/P5P5-2	PANEL 5	PANEL 5				F	SEL-C953	6		451-252 TO 451-253
DFR	PANEL 1	COMMUNCATION ROOM				F	SEL CA605	50		
ESDFR/P10	PANEL 1	PANEL 1				F	SEL CA605	6		DFR TO DFR ESINT
ESDFR/P1	PANEL 1	PANEL 1				F	SEL CA605	6		DAU TO DFR ES
ESDFR/P2	PANEL 1	PANEL 1				F	SEL CA605	6		DAU TO DFR ES

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SJRPP SUBSTATION BREAKER 9T1W INSTALL WITH NEW SJRPP DISTRIBUTION SUBSTATION

CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNGTH ckt ft	CONDUIT #	REMARKS
ES1/P9	PANEL 1	PANEL 4				F	SEL CA605	35		ES1 TO 87B1-B1
ES1/P15	PANEL 1	PANEL 2				F	SEL CA605	25		ES1 TO 87T1-T1
ES1/P5	PANEL 1	PANEL 1				F	SEL CA605	6		ES1 TO 3350
ES2/P10	PANEL 1	PANEL 5				F	SEL CA605	35		ES2 TO 451-251
ES2/P11	PANEL 1	PANEL 5					SEL CA605	35		ES2 TO 451-252
ES2/P12	PANEL 1	PANEL 5					SEL CA605	35		ES2 TO 451-253
ES2/P15	PANEL 1	PANEL 2					SEL CA605	35		ES2 TO 87T2-T1
ES2/P20	PANEL 1	PANEL 3					SEL CA605	35		ES2 TO 451-2T1
ES2/P5	PANEL 1	PANEL 1					SEL CA605	6		ES2 TO SEL3350
INT/90T1	PANEL 1	PANEL 3					SEL CA605	50		3350 TO BECKWITH 2001C
ANN	PANEL 1	PANEL 1					SEL CA605	6		3350 TO ANNUNCIATOR
FO1/P1	COMM RACK	PANEL 1					SELC808	45		BUCC TO 3350
FO2/P1	COMM RACK	PANEL 1					SELC808	45		SOCC TO 3350
PART OF FO1/P1	PANEL 1	PANEL 1					SELC478A	6		
PART OF FO1/P1	PANEL 1	PANEL 1					SELC478A	6		
END										

CABLE SCHEDULE
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CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LNTH ckt ft	CONDUIT #	REMARKS