



SYSTEM PROTECTION & CONTROL PROJECTS 20413

FINAL CABLE SCHEDULE

SWITZERLAND 230kV CAPACITOR BANK ADDITION

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.
- 4 ALL EXISTING CABLES RUNNING FROM SWITCHYARD EQUIPMENT
TO THE CONTROL HOUSE MAY OR MAY NOT REACH THE POSITION
SHOWN IN THE NEW SWITCHBOARDS. IF CABLE HAS SUFFICIENT
LENGTH TO REACH NEW SWITCHBOARD LOCATIONS THE EXISTING
CABLE SHALL BE REUSED AND RELABELED IF REQUIRED. IF CABLE
DOES NOT REACH, A NEW CABLE SHALL BE PULLED AND LABELED
AS INDICATED. EXISTING CABLE NUMBER'S ARE INDICATED IN "()"
IF DIFFERENT THAN NEW CABLE NUMBER'S.

CABLE LEGEND:

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| 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 |

DATE: 05/07/2019

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FINAL CABLE SCHEDULE SWITZERLAND SUBSTATION

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CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LENGTH ckt ft	CONDUIT #	REMARKS
BREAKER 9C1										
9C1/C1	BRK 9C1	PANEL 6	600	10	21	M	BS	375	2"(1), TRENCH, CONTROL HOUSE	CONTROL
9C1/C2	BKR 9C1	PANEL 6	600	10	21	M	BS	375	2"(2), TRENCH, CONTROL HOUSE	CONTROL
9C1/C3	BKR 9C1	PANEL 6	600	10	21	M	BS	375	2"(3), TRENCH, CONTROL HOUSE	CONTROL
9C1/C4	BKR 9C1	PANEL 2	600	10	4	M	BS	375	3"(1), TRENCH, CONTROL HOUSE	52b CONTACTS
9C1/9C1PR	BKR 9C1	PANEL 6	600	10	4	M	BS	375	3"(1), TRENCH, CONTROL HOUSE	CAP 9C1 PRI PROT.
9C1/9C1SC	BKR 9C1	PANEL 6	600	10	4	M	BS	375	3"(1), TRENCH, CONTROL HOUSE	CAP 9C1 SEC PROT.
9C1/B1PR	BKR 9C1	9B1CTJB	600	10	4	M	BS		3"(2), TRENCH, 1" BUS DIFF BOX 1	BUS 1 PRI PROT.
9C1/B1SC	BKR 9C1	PANEL 3	600	10	4	M	BS	375	3"(2), TRENCH, CONTROL HOUSE	BUS 1 SEC PROT.
9C1/AC	BRK 9C1	AC PNL 9YP-1P	600	6	3	M	C	400	1", TRENCH, 1"	BKR AC POWER
9C1PSD/AC	BKR 9C1	B1PTJB3	600	10	4	M	BS		3"(1), TRENCH, 2", PT JUNCTION BOX	PSD AC POT.
69KV CAP BANK 9C1 NEUTRAL PT (9C1PTJB)										
9C1/PHA	9FJB9C1	PH A PT	600	10	4	M	BS	40	2", PT JUNCTION BOX	9C1 PT PH A
9C1/PHB	9FJB9C1	PH B PT	600	10	4	M	BS	20		9C1 PT PH B
9C1/PHC	9FJB9C1	PH C PT	600	10	4	M	BS	40	2", PT JUNCTION BOX	9C1 PT PH C
9C1PT/JB	9FJB9C1	PANEL 6	600	10	4	M	BS	400	2", CABLE TRENCH, CONTROL HOUSE	9C1 NEUTRAL POT.
9C1PT/JBAC	9FJB9C1	BKR 9C1	600	10	2	M	BS	75	2"	AC POWER HTR
BUS 1 BUS PT JB (B1PTJB3)										
B1/PHA	B1PTJB3	PHA PT	600	10	8	M	BS	60	2", PT JUNCTION BOX	BUS 1 POT. PHA
B1/PHB	B1PTJB3	PHB PT	600	10	8	M	BS	40	2", PT JUNCTION BOX	BUS 1 POT. PHB
B1/PHC	B1PTJB3	PHC PT	600	10	8	M	BS	20		BUS 1 POT. PHC
B1PT/JB	B1PTJB3	PANEL 6	600	10	8	M	BS	150	2", CABLE TRENCH, CONTROL HOUSE	BUS 1 POT.
CONTROL HOUSE AC CABLES										
P1P6/AC	PANEL 1	PANEL 6	600	10	4	M	BS	<50		BUS 1 SYNC POT.
P5P6/SYNC	PANEL 5	PANEL 6	600	10	4	M	BS	<50		SYNC POT.
P6PS/SYNC	PANEL 6	SYNC PANEL	600	12	2	S	B	<50		SYNC POT.
P4P6/AC	PANEL 4	PANEL 6	600	10	4	M	BS	<50		AC PANEL POWER

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CABLE #	FROM	TO	VOLT	SIZE	#C	S/M	TYPE	LENGTH ckt ft	CONDUIT #	REMARKS
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CONTROL HOUSE DC CABLES

[illegible]

CONTROL HOUSE RELAY PANEL TO PANEL CABLES

[illegible]