



DO NOT SCALE DRAWINGS

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Client/client
TRANSPORT CANADA PROGRAMS GROUP
EDMONTON, ALBERTA

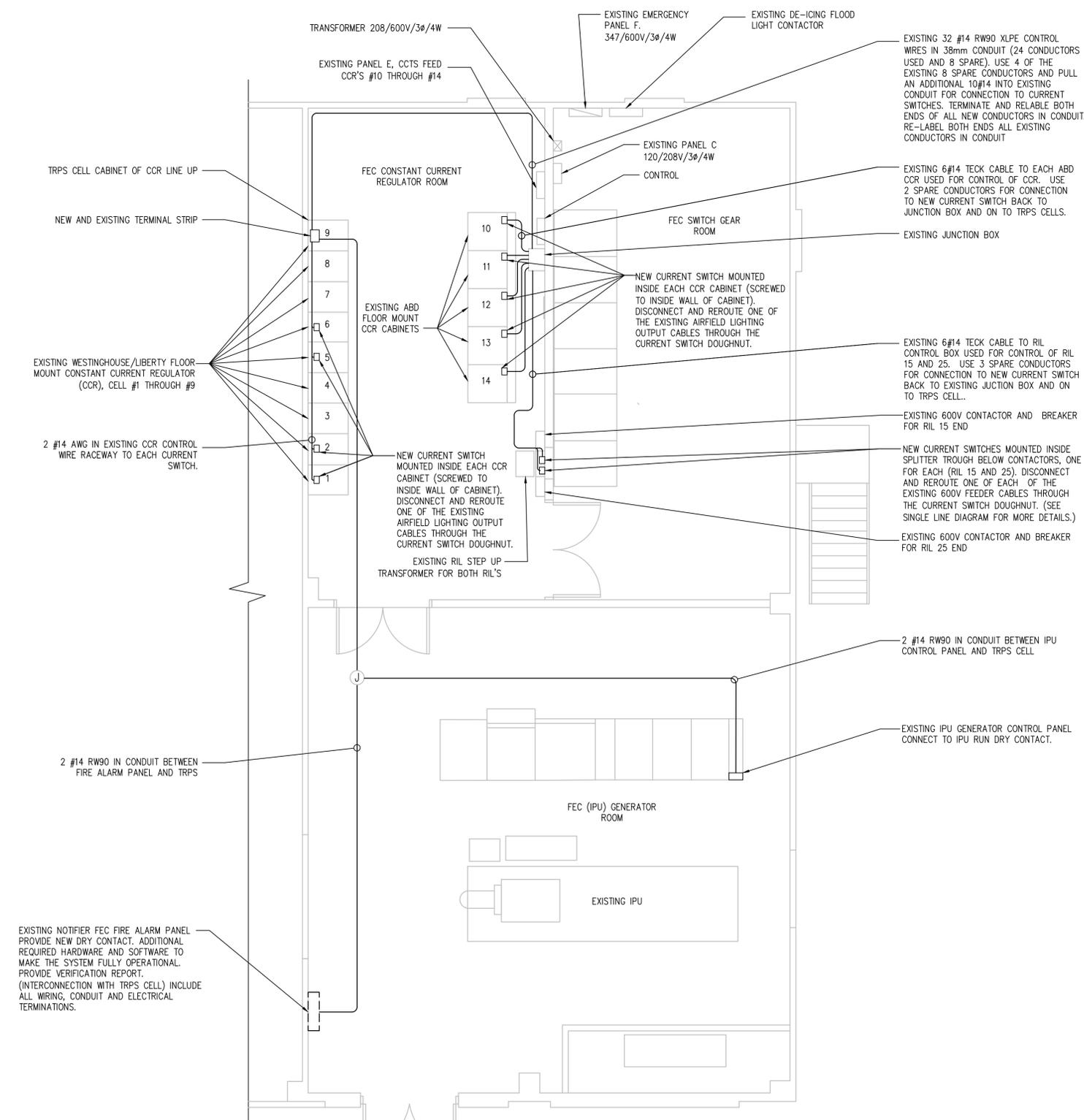
Project title/Titre du projet
CHURCHILL AIRFIELD LIGHTING SYSTEM REPLACEMENT
CHURCHILL, MANITOBA

Approved by/Approve par
KELLIE ORR
Designed by/Concepé par
DOUG NEILL
Drawn by/Dessiné par
ALYSSA NEILL

PWSC Project Manager/Administrateur de Projets TPSCG
PWSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client
TRANSPORT CANADA
Drawing title/Titre du dessin
FIELD ELECTRICAL CENTRE (FEC) AIRFIELD LIGHTING CONTROL EQUIPMENT LAYOUT MAIN FLOOR PLAN

Project No./No. du projet
R.077606.001
Sheet/Fauille
E-2
Revision no./Lo Révision no.
3
OF 4



AIR TRAFFIC CONTROL TOWER (ATC TOWER) - FSS			EXISTING 50 PAIR CONTROL CABLE BETWEEN ATC AND FEC (EXISTING WIRE TERMINATION)	EXISTING 50 PAIR CONTROL CABLE BETWEEN ATC AND FEC (RE-TERMINATE PAIRS)	TERMINAL BLOCK IN FEC	
FUNCTION	EXISTING C704 RELAY CABINET ON MAIN FLOOR (TERMINAL #)	NEW ALCMS IN ATC TOWER BASEMENT (I/O TERMINAL # BY MANUFACTURER)			EXISTING TERMINAL # IN TRPS CELL OF WESTINGHOUSE CCR LINE UP	NEW TERMINAL # IN TRPS CELL OF WESTINGHOUSE CCR LINE UP
07-25 EDGE, CC	3	()	WHITE ORG/WHT	BLUE BLU/WHT	40	
07-25 EDGE, B 10 (LOW)	4	()	ORANGE ORG/WHT	WHITE BLU/WHT	41	
07-25 EDGE, B 30 (MED)	1	()	WHITE BLU/WHT	ORANGE ORG/WHT	42	
07-25 EDGE, B 100 (HIGH)	2	()	BLUE BLU/WHT	WHITE ORG/WHT	43	
07-25 EDGE, ON CONFIRMATION		()		GREEN GRN/WHT	101	
07 PAPI - CC	13	()	RED ORG/RD	WHITE GRN/WHT	44	
07 PAPI, ON CONFIRMATION		()		BROWN BRN/WHT	102	
25 PAPI - CC	14	()	ORANGE ORG/RD	WHITE BRN/WHT	45	
25 PAPI, ON CONFIRMATION		()		GREY GRY/WHT	103	
07/25 PAPI - B 10 (LOW)	10	()	GREY GRY/WHT	WHITE GRY/WHT	48	
07/25 PAPI - B 30 (MED)	11	()	RED BLU/RD	RED BLU/RD	49	
07/25 PAPI - B 100 (HIGH)	12	()	BLUE BLU/RD	BLUE BLU/RD	54	
25 RIL	15	()	RED GRN/RD	ORANGE ORG/RD	46	
25 RIL ON CONFIRMATION		()		RED ORG/RD	104	
15-33 EDGE/CC-B1	29	()	BLACK GRY/BLK	GRN GRN/RD	21	
15-33 EDGE/B2	21	()	BLACK BLU/BLK	RED GRN/RD	22	
15-33 EDGE/B3	22	()	BLUE BLU/BLK	BROWN BRN/RD	23	
15-33 EDGE/B4	23	()	BLACK ORG/BLK	RED BRN/RD	24	
15-33 EDGE/B5	24	()	ORANGE ORG/BLK	GREY GRY/RD	25	
15-33 EDGE ON CONFIRMATION		()		RED GRY/RD	105	
33 SSALR - CC - B1	35	()	YELLOW GRN/YEL AND JUMPS TO 80	BLUE BLU/BLK AND JUMPS TO 80	1	
33 SSALR - B - 2	31	()	YELLOW BLU/YEL	BLACK BLU/BLK	2	
33 SSALR - B - 3	32	()	BLUE BLU/YEL	ORANGE ORG/BLK	3	
33 SSALR - B - 4	33	()	YELLOW ORG/YEL	BLACK ORG/BLK	4	
33 SSALR - B - 5	34	()	ORANGE ORG/YEL	GREEN GRN/BLK	5	
33 SSALR - STDY ON CONFIRMATION		()		BLACK GRN/BLK	OLD LIA	106
33 SSALR - RAIL	25	()	BLACK GRN/BLK OR GREEN GRN/YEL?	BROWN BRN/BLK	38	
33 SSALR - RAIL ON CONFIRMATION		()		BLACK BRN/BLK	107	
15 PAPI - CC	43	()	VIOLET ORG/VIO	GREY GRY/BLK	47	
15 PAPI - B 10 (LOW)	40	()	GREY GRY/YEL	BLACK GRY/BLK	52	
15 PAPI - B 30 (MED)	41	()	VIOLET BLU/VIO	BLUE BLU/YEL	53	
15 PAPI - B 100 (HIGH)	42	()	BLUE BLU/VIO	YELLOW BLU/YEL	50	
15 PAPI - ON CONFIRMATION		()		ORANGE ORG/YEL	108	
TAXI A,B, APRON	51	()	WHITE BLU/WHT	YELLOW ORG/YEL	55	
TAXI A,B, APRON ON CONFIRMATION		()		GREEN GRN/YEL	109	
ROTATING BEACON	52	()				
RAMP LIGHTS	53	()	WHITE BRN/WHT?	YELLOW GRN/YEL	59	
DE-ICING LIGHTS	54	()	BROWN? BRN/WHT?	BROWN BRN/YEL	60	
15 RIL	37	()	YELLOW BRN/YEL	YELLOW BRN/YEL	36	
15 RIL ON CONFIRMATION		()		GREY GRY/YEL	110	
IPU RUN		()		YELLOW GRY/YEL	111	
FEC FIRE ALARM		()		BLUE BLU/VIO	112	
NEW ALCMS POWER SUPPLY	24P ATC		+24 VOLT FROM NEW ATC ALCMS POWER SUPPLY	(2 PAIR TOGETHER) BROWN/ VIOLET GREEN/ VIOLET		
FEC POWER SUPPLY			(2 PAIR TOGETHER) BROWN/ VIOLET GREY/ WHITE	(2 PAIR TOGETHER) BROWN/ VIOLET GREY/ WHITE	CONNECT TO +24 Volt FROM EXISTING FEC POWER SUPPLY	
RVR (RWY 15-33 EDGE LIGHT BRIGHTNESS B4)		()				
RVR (RWY 15-33 EDGE LIGHT BRIGHTNESS B5)		()				

- NOTES:
- NEW AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM MUST BE INSTALLED AND OPERATION TESTED BY MANUFACTURER AND ACCEPTED BY CONSULTANT BEFORE CUT OVER OF 50 PAIR CABLE. EXISTING C704 FIELD LIGHTING CONTROL SYSTEM MUST BE MAINTAINED OPERATIONAL UNTIL FINAL CUT OVER OF 50 PAIR CABLE.
 - ALL EQUIPMENT (CURRENT SWITCHES, ETC.) AND WIRING BACK TO TRPS MUST BE INSTALLED AND TESTED BEFORE CUTOVER OF 50 PR CABLE CAN BEGIN IN ATC.
 - COORDINATE ALL WORK WITH SITE MAINTENANCE STAFF. SITE STAFF WILL PUT CCR'S INTO MANUAL OVERRIDE DURING 50 PR CABLE CUTOVER AND COMMISSIONING OF NEW FIELD LIGHTING CONTROL SYSTEM EQUIPMENT.
 - TEST 50PR CONTROL TO CONFIRM INTEGRITY OF ALL PAIRS AND USE HIGHEST PAIRS OF EXISTING CABLE.
 - ALL NEW CONTROL WIRING INSIDE NEW AND EXISTING CABINETS TO BE SECURED TO INSIDE WALLS OF CABINET AND NEATLY SUPPORTED FOR ENTIRE LENGTH.
 - PROVIDE MACHINE TAGS ON ALL NEW AND REUSE CONTROL WIRES/CABLES AT EITHER END AND IN JUNCTION BOXES.

1 FIELD ELECTRICAL CENTRE
E-2 1:50

2 FIELD LIGHTING CONTROL WIRING TABLE
E-2 NTS

