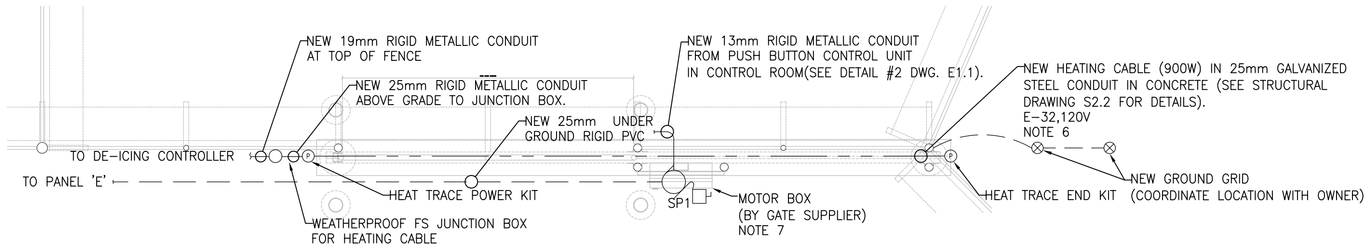
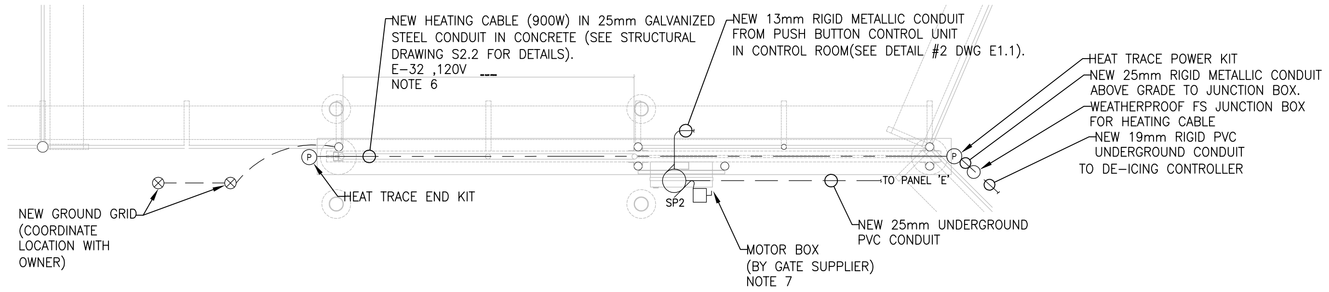
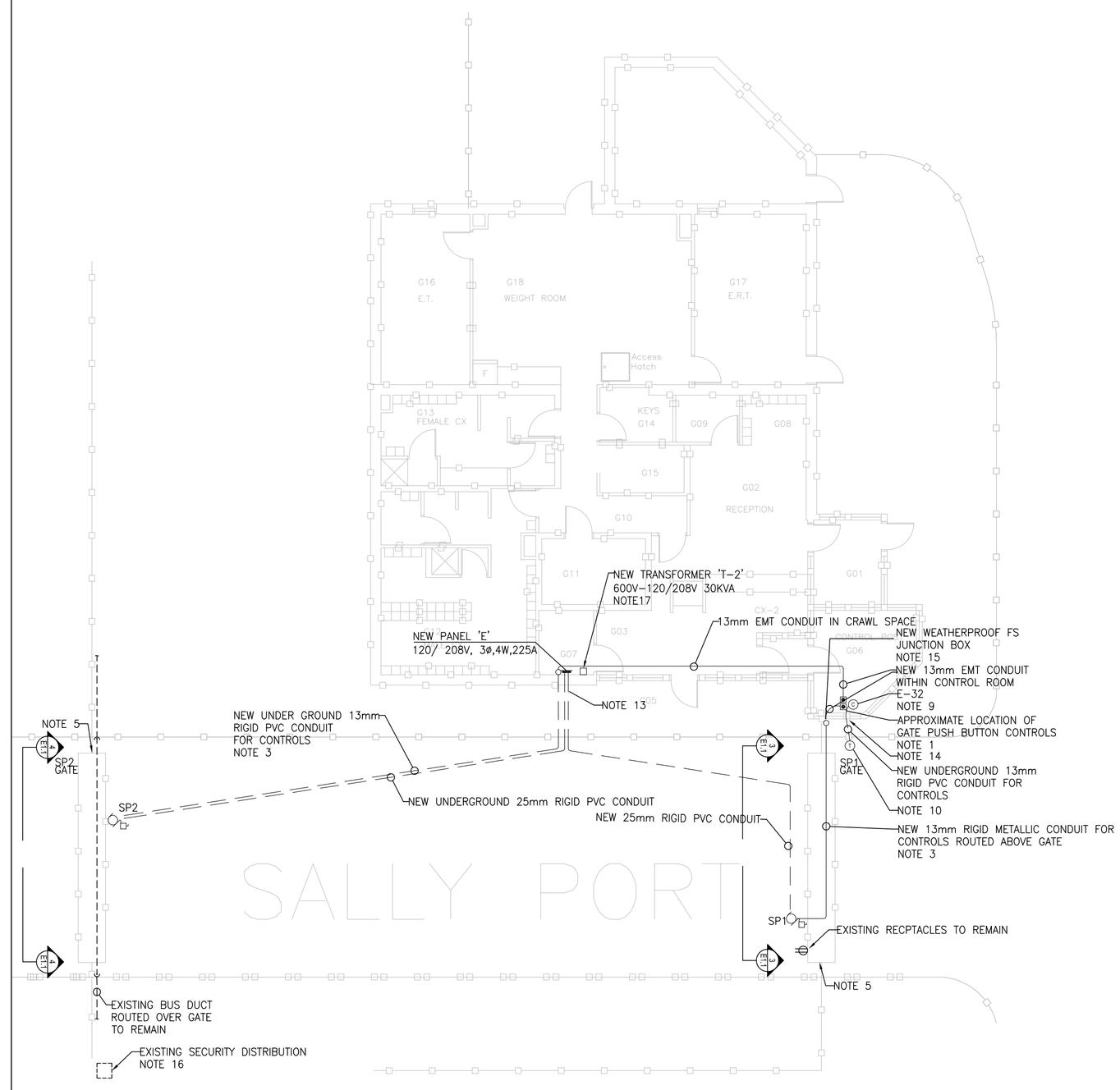
161-17879-00



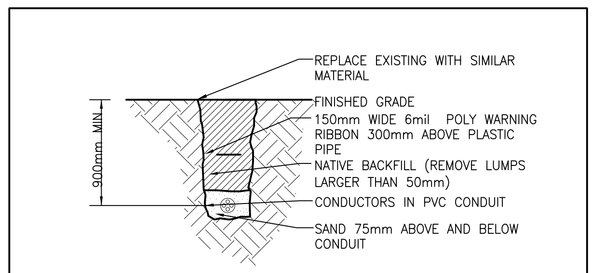
1 SECTION-SP1 GATE PRINICPAL ENTRY PLAN
SCALE 1:50



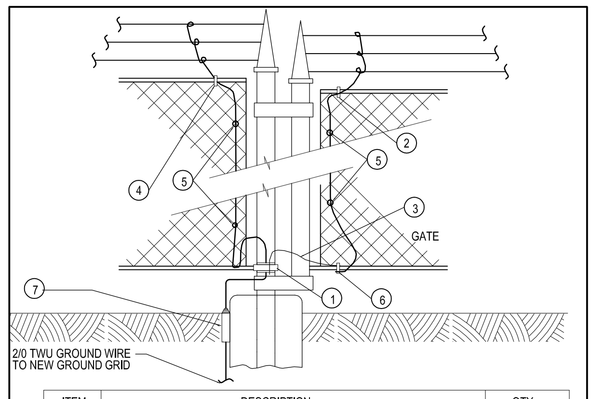
2 SECTION-SP2 GATE PRINICPAL ENTRY PLAN
SCALE 1:50



3 SP1 & SP2 GATE ELECTRICAL LAYOUT (PLAN)
SCALE 1:100

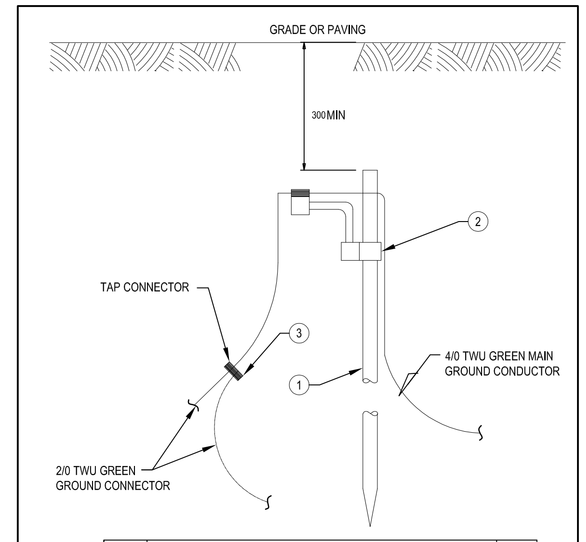


4 TRENCH DETAIL (ELEVATION)
NTS



ITEM	DESCRIPTION	QTY.
1	MECHANICAL COPPER CONNECTOR, GROUND, #2/0 AWG TO 3" I.P.S. PIPE, EQUAL TO BURNDY #GD2026	1
2	MECHANICAL COPPER CONNECTOR, GROUND, 1 1/4 " I.P.S. TO #2/0 AWG, EQUAL TO BURNDY #GAR 1629	2
3	BRAIDED GROUND STRAP 300 mm LONG, EQUAL TO BURNDY #BD12	1
4	CONNECTOR, GROUND, 1 1/4 " I.P.S. TO #2/0 AWG, EQUAL TO BURNDY #GAR 1626	1
5	SERVIT CONNECTOR, EQUAL TO BURNDY #KS26	10
6	CONNECTOR, GROUND, 1 1/4 " I.P.S. TO #2/0 AWG, EQUAL TO BURNDY #GD 1626	1
7	1" PVC CONDUIT	1

5 FENCE GROUNDING DETAIL (ELEVATION)
NTS



ITEM	DESCRIPTION	QTY.
1	GROUND ROD, COPPERWELD STEEL, 3/4 " x 3000 LONG	1
2	CONNECTOR, #2-250 CABLE TO 3/4 " ROD, EQUAL TO BURNDY #YGLR29C34	1
3	COMPRESSION TAP CONNECTOR EQUAL TO BURNDY #YGHC 29C26	1

6 GROUND ROD ASSEMBLY (COPPER ROD)
NTS

NOTES

1. PUSHBUTTON CONTROL LOCATION TO BE COORDINATED ON SITE WITH OWNER.
2. CONTRACTOR TO LOCATE ALL UNDERGROUND SERVICES IN VICINITY OF GATE PRIOR TO EXCAVATING.
3. CONTRACTOR TO SUPPLY AND INSTALL CONTROL WIRING BETWEEN THE GATE MOTOR BOXES AND THE NEW REMOTE MOMENTARY OPEN-CLOSE PUSHBUTTON STATION IN THE CONTROL ROOM.
4. ALL RACEWAY ABOVE GROUND IN GATE AREA TO BE RIGID METALLIC CONDUIT.
5. ALL ELECTRICAL SERVICES (POWER,COMMUNICATIONS,FIBER OPTIC,ETC.) ROUTED OVER/ AROUND GATE WHICH ARE TO REMAIN ARE TO BE MODIFIED/EXTENDED TO ACCOMMODATE INSTALLATION OF NEW GATE AND TO REMAIN FUNCTIONAL DURING CONSTRUCTION. NOT ALL EXISTING ELECTRICAL SERVICES AROUND GATE ARE SHOWN. CONTRACTOR TO VERIFY ON SITE.
6. HEATING CABLE SHALL BE RATED AT 30W/FT,120V. EQUAL TO PYROTENAX#D 32SA2170/30 /900/120/7/LS23A/X/N12
7. NEW MOTOR BOX HEATERS TO BE CIRCUITED TO 120V,15 AMP CIRCUIT BREAKERS IN PANEL E.
8. CONTRACTOR TO SUPPLY AND INSTALL FIELD WIRING FOR NEW MOTOR FIELD COMPONENTS . FIELD WIRING TO BE INSTALLED IN RIGID METALLIC CONDUIT BETWEEN FIELD DEVICE AND MOTOR BOX. FIELD COMPONENTS INCLUDE:
   - LEFT HAND GATE OPERATOR
   - RIGHT HAND GATE OPERATOR
   - STATUS LIMIT IN LOCKING COLUMN
   - THREE BUTTON CONTROL STATION
   - LOOP SOCKET
   - MOVEMENT ALARM BUZZE
   - THROUGH BEAM PHOTO CELLS
9. LOCATION OF DE-ICING CONTROLLER TO BE COORDINATED ON SITE WITH OWNER. PROVIDE AND INSTALL NEW 20A1P BREAKER FOR CONTROLLER AND HEATING CABLES.
10. IN GROUND LOCATION OF DE-ICING SENSOR TO BE COORDINATED ON SITE WITH OWNER. KEEP OUT OF VEHICLE PATH.
11. DIRECTIONAL BORING OR HYDRO VAC TO BE USED FOR INSTALLATION OF GATE UNDERGROUND SERVICES. INSTALLATIONS TO BE CONTINUOUS (NO SPLICES).
12. CONTRACTOR TO COORDINATE CLOSELY SHUT DOWN OF ANY POWER OR CONTROLS WITH OWNER. SHUT DOWNS TO OCCUR AFTER REGULAR HOURS AND SUBJECT TO CSC/RPC ACCEPTANCE.
13. ROUTE CONDUIT INTO CRAWL SPACE OF BUILDING UNDERNEATH ELECTRICAL ROOM G07. TRANSITION FROM CRAWL SPACE INTO ELECTRICAL ROOM AND THEN TO PANEL 'E'.
14. ROUTE CONDUIT INTO CRAWL SPACE OF BUILDING UNDERNEATH CONTROL POST G06. TRANSITION FROM CRAWL SPACE INTO CONTROL POST TIGHT TO WALL IN AREA WHERE NO WINDOWS ARE PRESENT.
15. MOUNT JUNCTION BOX AS HIGH UP AS POSSIBLE. ROUTE CONDUIT INTO CEILING SPACE OF CONTROL POST G06.
16. SECURITY DEVICES (e.g. FENCE PERIMETER INTRUSION DETECTION) SENSTAR # INTELLI-FLEX ARE TO REMAIN FUNCTIONAL DURING CONSTRUCTION. COORDINATE WORK AND COMMISSIONING WITH CSC/RPC SECURITY PERSONNEL.
17. REPLACE EXISTING PANEL 'E' AND EXISTING 15KVA TRANSFORMER WITH NEW AS SHOWN. COORDINATE SHUTDOWN WITH CSC/RPC. RECONNECT ALL EXISTINGS BRANCH CIRCUITS TO NEW PANEL. WORK TO BE DONE OUTSIDE OF NORMAL

MOTOR CONTROL SCHEDULE

MOTOR No	DESCRIPTION	WATTS/HP	VOLTS, PH	FLA	BREAKER	FEEDER	CIRCUIT	STARTER	DISCON.	REMARKS	MOTOR No
SP1	MOTORIZED GATE (EXTERIOR)	1.0 HP	208V,3ø	5.3A	15A3P	3#12,1#12GND-25C	E-43/45/47	BY MANUF.	BY MANUF.	NOTES 1.	SP1
SP2	MOTORIZED GATE (INTERIOR)	1.0 HP	208V,3ø	5.3A	15A3P	3#12,1#12GND-25C	E-44/46/48	BY MANUF.	BY MANUF.	NOTES 1.	SP2

NOTES

1. CONTROLLED BY MOMENTARY PUSH BUTTON OPERATOR STATION
2. REPLACE EXISTING 15A1P BREAKER WITH NEW BREAKER AS SHOWN

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
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Client / Client

CORRECTIONAL SERVICES CANADA

CSC REGIONAL PSYCHIATRIC CENTRE

Client / Client

COUPLAND KRAEMER
Architecture + Interior Design Inc.
Contact: Michael Coupland
mcoupland@ckaid.com
Suite 101
4632 1st Street SE
Calgary, Alberta
T2G 2L3
T. 403.269.7109
F. 403.269.7595

WSP
203 WELLMAN CRESCENT
SASKATOON SASKATCHEWAN CANADA S7T 0J1
TEL.: 306-665-6223 | FAX: 306-665-8589 | WWW.WSPGROUP.COM

PROFESSIONAL ENGINEER H.R. JAMES MEMBER 26625 18 02 15 SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
WSP CANADA INC.
Number C0868
Permission to Consult held by:
Discipline / Sh. Reg. No. / Signature
Electrical 26625

REVISIONS	DESCRIPTION	DATE
0	TENDER SUBMISSION	18/02/15

A detail number / number du detail
B source drawing no. / de dessin no.
C detail on drawing no. / detail sur dessin no.

project title / titre du projet

Fence Assessment and Repair

CSC REGIONAL PSYCHIATRIC CENTRE SASKATOON, SASKATCHEWAN

drawing title / titre du dessin

PRINCIPAL ENTRY GATE SP1 & SP2 ELECTRICAL LAYOUT SINGLE LINE DIAGRAM, LEGEND MOTOR CONTROL SCHEDULE

designed by / conçu par	HJ
drawn by / dessiné par	ZW
approved by / approuvé par	
PWGSC Project Manager / Administrateur de Projets TPSGC	BRET WARD
scale / echelle	AS SHOWN
project no. / projet no.	R.084540.001
date	2018/02/15
sheet / feuille	E1.1
	15 OF 16

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