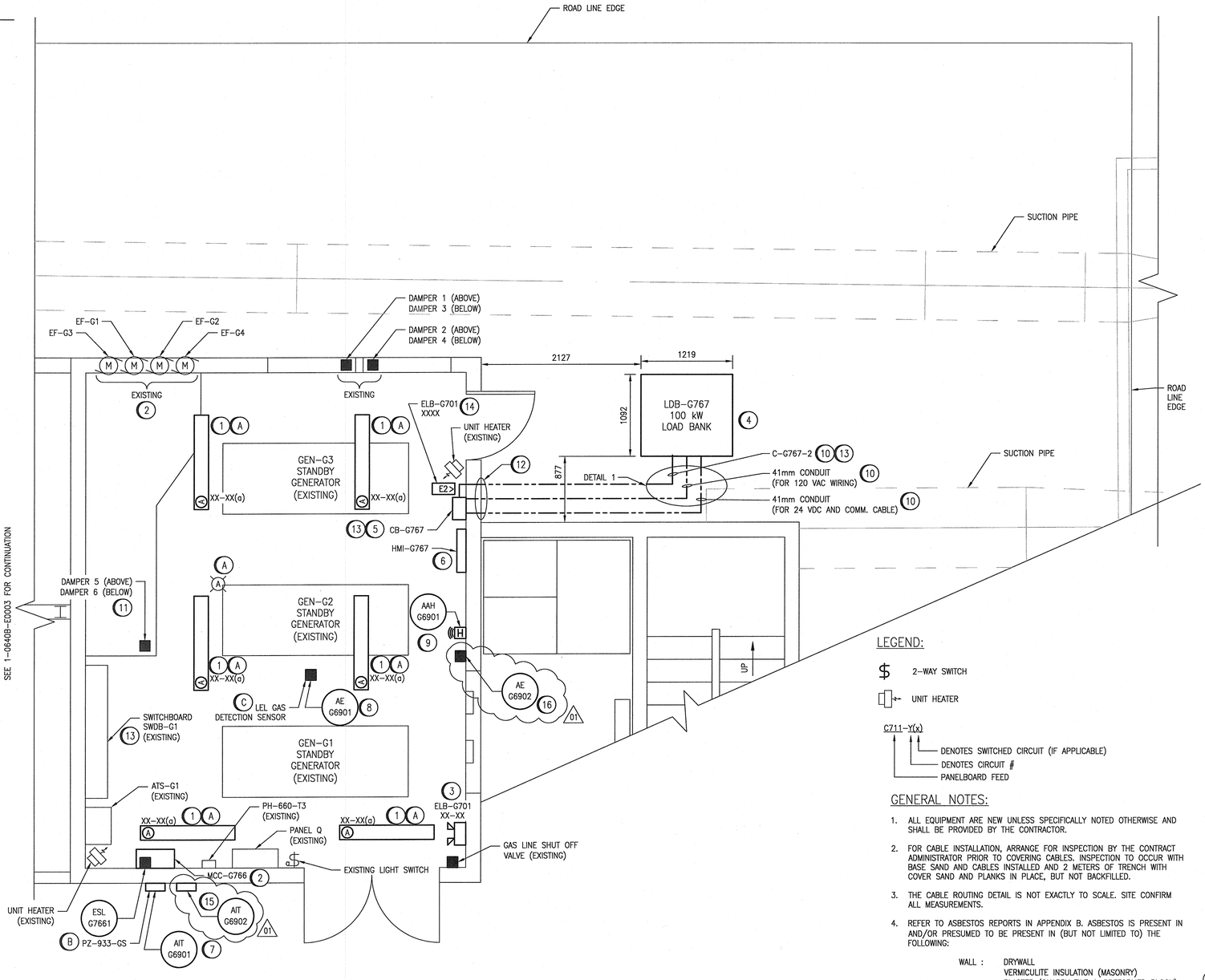
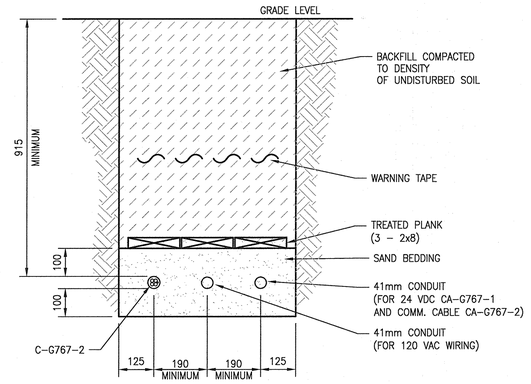
A1 SIZE – 594mm x 841mm



GENERATOR ROOM PLAN

SCALE: NTS



DETAIL 1– TRENCH LAYOUT

SCALE: NTS

DEMOLITION NOTES:

(A) DEMOLISH EXISTING LUMINAIRE IN GENERATOR ROOM. REMOVE EXISTING WIRING FROM THE LUMINAIRE UP TO THE SOURCE PANELBOARD. CONDUIT TO REMAIN AND TO BE RE–USED. REUSE EXISTING LIGHT SWITCH.

(B) DEMOLISH EXISTING GAS DETECTION CONTROLLER PZ–933–GS ALONG WITH ASSOCIATED WIRING.

(C) DEMOLISH EXISTING LEL GAS DETECTION SENSOR AND WIRING.

CONSTRUCTION NOTES:

(1) PROVIDE LED LUMINAIRE C/W MOUNTING ACCESSORIES. REFER TO DRAWING 1–0640M–E0042 002 FOR LUMINAIRE SCHEDULE. RETAIN AND DETERMINE EXISTING CIRCUIT AND PROVIDE PANEL AND CIRCUIT NUMBER ON AS BUILTS. RETAIN EXISTING LIGHT SWITCH.

(2) PROVIDE MOTOR CONTROL CENTRE, MCC–G766. MODIFY/REROUTE EXISTING CONDUIT FOR PANEL Q LOCATED DIRECTLY BEHIND THE LOCATION OF THE NEW MCC–G766. PROVIDE NEW FEED TO EXHAUST FANS EF–G1, EF–G2, EF–G3, AND EF–G4 FROM MCC–G766. PROVIDE A 6 AWG BONDING CONDUCTOR THAT IS TAPPED FROM THE GROUNDING SYSTEM ASSOCIATED WITH THE GENERATORS.

(3) PROVIDE EMERGENCY LIGHT C/W BATTERY UNIT. REFER TO DRAWING 1–0640M–E0042 002 FOR EMERGENCY LIGHTING AND EXIT SIGN BATTERY SCHEDULE. CONNECT TO EXISTING LIGHTING CIRCUIT IN GENERATOR ROOM. EXTEND CABLING AND CONDUIT AS REQUIRED.

(4) PROVIDE A 100 kW, 600V LOAD BANK, LDB–G767 TO BE LOCATED OUTSIDE. PROVIDE CONCRETE PAD COMPLETE WITH BOLLARDS PROTECTION. REFER TO DRAWING 1–0640B–E0013 FOR WIRING DETAILS AND DRAWING 1–0640A–S0004 FOR PAD AND BOLLARD DETAILS.

(5) PROVIDE 125A THERMAL MAGNETIC BREAKER CB–G767 FOR LOAD BANK LDB–G767. PROVIDE WALL MOUNT ENCLOSURE TO INSTALL CIRCUIT BREAKER. ENSURE ENCLOSURE IS SIZED TO ACCOMMODATE BREAKER.

(6) PROVIDE HMI, HMI–G767, ASSOCIATED WITH LOAD BANK LDB–G767. HMI–G767 TO BE LOCATED IN WALL MOUNTED NEMA 3R ENCLOSURE (HMI MANUFACTURER TO SUPPLY ENCLOSURE). REFER TO DWG 1–0640B–E0013 FOR LOAD BANK CONNECTION DIAGRAM.

(7) PROVIDE GAS DETECTION CONTROLLER AIT–G6901 FOR LEL (METHANE) DETECTION. PROVIDE JUNCTION BOX, CABLING, AND ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DRAWING 1–0640B–A0002 FOR DETAILS.

(8) PROVIDE LEL GAS DETECTOR SENSOR AE–G6901. WIRE TO NEW GAS DETECTOR CONTROLLER AIT–G6901. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES. REFER TO DRAWING 1–0640B–A0002 FOR DETAILS.

(9) PROVIDE GAS DETECTION HORN / STROBE AAH–G6901. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DRAWING 1–0640B–A0002.

(10) CONTRACTOR TO ENSURE AREA IS SUITABLE FOR UNDERGROUND CABLE ROUTING. MODIFY IF NECESSARY. REFER TO DWG 1–0640B–E0013 FOR LOAD BANK CONNECTION DIAGRAM.

(11) ENSURE EXISTING DAMPER 5 AND DAMPER 6 (DAMPER NOT CURRENTLY LABELLED ON SITE) CONTROL SCHEME IS RETAINED.

(12) SCAN THE WALL PRIOR TO CORE DRILLING OR CUTTING. CORE DRILL HOLES TO SUIT CABLE AND CONDUIT SIZE. PROVIDE WEATHER PROOF SEAL FOR CABLE OR CONDUIT EXITING/ENTERING THE BUILDING.

(13) PROVIDE CABLE FROM SWITCHBOARD SWBD–G1 (SEE DRAWING 1–0640B–E0007) TO LOAD BANK CIRCUIT BREAKER CB–G767 AND THEN FROM CB–G767 TO LOAD BANK LDB–G767 LOCATED OUTSIDE. OUTDOOR CABLE TO BE DIRECT BURIED.

(14) PROVIDE NEW EXIT SIGN. PROVIDE BATTERY CONNECTION AS INDICATED. CONNECT 120V AC CONNECTION TO EXISTING LIGHTING CIRCUIT. MOUNT ON WALL. REFER TO SCHEDULE ON DWG 1–0640M–E0042–002 FOR EXIT SIGN MODEL.

(15) PROVIDE GAS DETECTION CONTROLLER AIT–G6902 FOR CARBON MONOXIDE DETECTION. PROVIDE JUNCTION BOX, CABLING AND ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DRAWING 1–0640B–A0003 FOR DETAILS.

(16) PROVIDE CARBON MONOXIDE SENSOR AE–G6902. WIRE TO NEW GAS DETECTION CONTROLLER AIT–G6902. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES. REFER TO DRAWING 1–0640B–A0003 FOR DETAILS. SENSOR TO BE LOCATED NO MORE THAN 5 FEET ABOVE FINISHED FLOOR. 01

LEGEND:

$ 2–WAY SWITCH

UNIT HEATER

C711–Y(x)
- Y(x): PANELBOARD FEED
- C711: DENOTES CIRCUIT #
- –Y: DENOTES SWITCHED CIRCUIT (IF APPLICABLE)

GENERAL NOTES:

1. ALL EQUIPMENT ARE NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL BE PROVIDED BY THE CONTRACTOR.
2. FOR CABLE INSTALLATION, ARRANGE FOR INSPECTION BY THE CONTRACT ADMINISTRATOR PRIOR TO COVERING CABLES. INSPECTION TO OCCUR WITH BASE SAND AND CABLES INSTALLED AND 2 METERS OF TRENCH WITH COVER SAND AND PLANKS IN PLACE, BUT NOT BACKFILLED.
3. THE CABLE ROUTING DETAIL IS NOT EXACTLY TO SCALE. SITE CONFIRM ALL MEASUREMENTS.
4. REFER TO ASBESTOS REPORTS IN APPENDIX B. ASBESTOS IS PRESENT IN AND/OR PRESUMED TO BE PRESENT IN (BUT NOT LIMITED TO) THE FOLLOWING:

WALL : DRYWALL
VERMICULITE INSULATION (MASONRY)
PLASTER (QUARRY TILE & PREFORMED BLOCK)

DRAWING NUMBER	REFERENCE DRAWINGS
1–0640B–A0003	LOOP DIAGRAM, AIT–G6902 01
1–0640M–P0012	PROCESS & INSTRUMENTATION DIAGRAM MISCELLANEOUS
1–0640A–S0004	STRUCTURAL, LDB–G767 LOAD BANK PLAN AND DETAILS
1–0640B–E0007	COLLECTION BLDG, 600V GENERATORS AND SWITCHGEAR
1–0640B–A0002	LOOP DIAGRAM, AIT–G6901, METHANE LEL DETECTION
1–0640M–E0042–002	PANELBOARD AND LUMINAIRE SCHEDULE
1–0640M–E0014	ELECTRICAL EQUIPMENT PLAN, GENERATOR ROOM
1–0640B–E0013	CONNECTION DIAGRAM, LOAD BANK LDB–C767
Q–MCP–187	CLI BUILDING – LIGHTING, POWER, HVAC & CABLE TRAY

NOTES:

1. THIS DRAWING SUPERCEDES DRAWING 1–0640M–E0014.

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR ADDENDUM 3	2020/01/06	VE	VE
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS

SNC·LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204–786–8080

DESIGNED BY: V. ELIMBAN	CHECKED BY: K. SAPIAK
DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/06/19	DATE: 2019/10/18
CONSULTANT NO.:	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
V. ELIMBAN
Member
34636
REGISTERED PROFESSIONAL ENGINEER
Jan 06 / 2020
REV.01

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION

ELECTRICAL EQUIPMENT PLAN
COLLECTION BUILDING
GENERATOR ROOM AND LOAD BANK LDB–G767

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0640B–E0008	001	01	A1

1–0640B–E0008–001–01.dwg

LAST SAVE: 2020/01/06 – 10:00am
PATH: M:\661472\ENG\47ELE\DD – General DWG\01 McPhillips\WIP for addendum 3\1–0640B–E0008–001–01.dwg