

NO.	DESCRIPTION	DATE	BY	APP.
A	ISSUED FOR 66% REVIEW	2014.01.07	WY	WY
B	ISSUED FOR 90% REVIEW	2015.02.25	WY	WY
C	ISSUED FOR 100% REVIEW	2015.03.20	WY	WY
D	ISSUED FOR TENDER	2015.03.27	WY	WY

NO.	DESCRIPTION	DATE	BY	APP.

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NO.	DESCRIPTION	DATE	BY	APP.

REVISIONS

KEY PLAN

PERMIT TO PRACTICE
 WILLIAMS ENGINEERING CANADA INC
 Signature: [Signature]
 Date: March 27, 2015
 PERMIT NUMBER: P 10527
 The Association of Professional Engineers, Geologists and Geophysicists of Alberta

WILLIAMS ENGINEERING CANADA

WE

CANADIAN FOOD INSPECTION AGENCY LETHBRIDGE LABORATORY
 225090-TOWNSHIP ROAD 9-1
 LETHBRIDGE, AB

REPLACE EMERGENCY GENERATOR SET

ELECTRICAL SINGLE LINE DIAGRAM

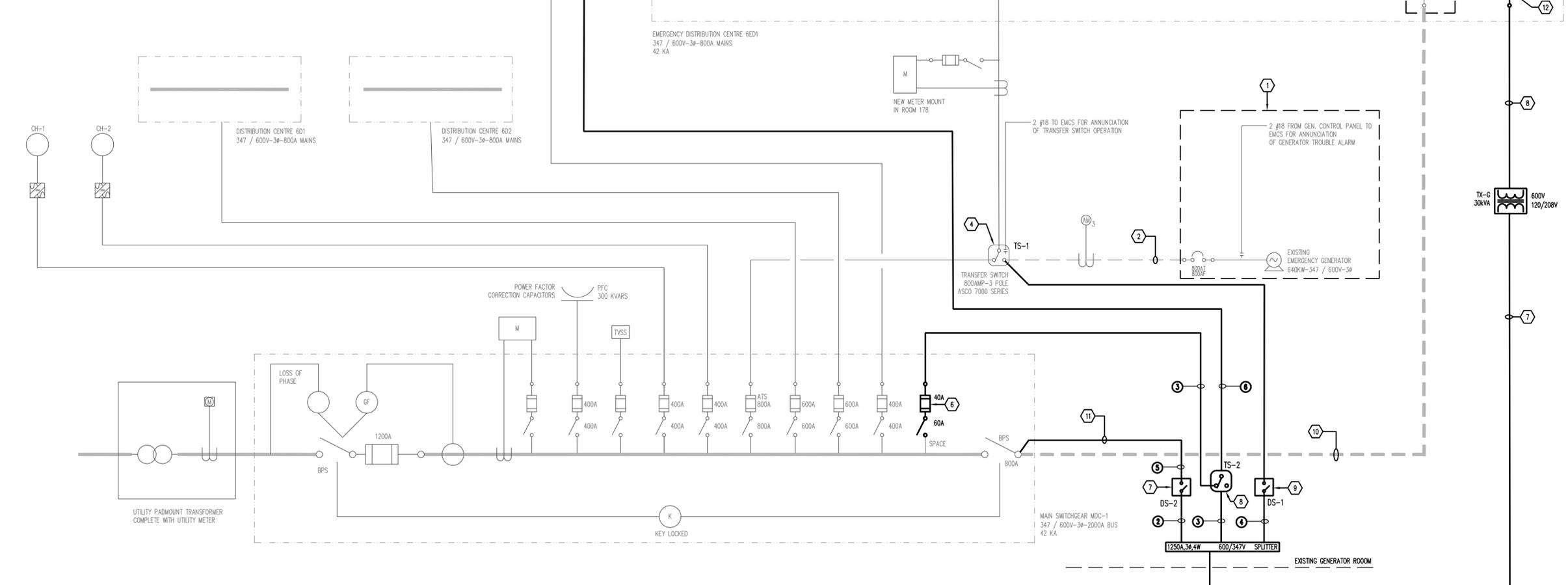
OWN BY: HS DES BY: WY PROJ. NO.: WY
 PEER REVIEW: - DATE: (Y-M-D) 2014-12-18 SCALE: NTS
 CLIENT PROJ. # WE PROJ. # 32113.00

E100/1/3 D

ELECTRICAL SYMBOL LEGEND	
	AMMETER
	BREAKER, MOULDED CASE
	CABINET, UTILITY METER
	GENERATOR SET
	VARIABLE FREQUENCY DRIVE
	MOTOR
	SWITCH, AUTOMATIC TRANSFER
	SWITCH, FUSED DISCONNECT, LOW VOLTAGE
	TRANSFORMER, POWER
	Δ = DELTA
	Y = WYE

NOTE:
 CABLES (1) & (2) TO BE ULC LISTED 2-HOUR FIRE RESISTIVE CABLES CONFORMING TO THE ULC-S139 FIRE TEST STANDARDS. CONTRACTOR TO INSTALL THESE MINERAL-INSULATED CABLES IN ACCORDANCE WITH MANUFACTURER INSTALLATION PROCEDURE AND CEC RULES 12-700+12-716.

TAG	DESCRIPTION
(1)	2x(4 SINGLE CONDUCTORS OF #500 Kcmil MINERAL-INSULATED CABLES)
(2)	2x103 mmC #500 Kcmil
(3)	27 mmC-3#6 AWG + #8 GND
(4)	2x103 mmC #500 Kcmil
(5)	TECK CABLES 2 RUNS OF #500 kcmil. REUSE EXISTING REMOVED CABLES. REFER TO KEY NOTES 10 & 11.
(6)	3#6 AWG THREE CONDUCTORS MINERAL-INSULATED CABLE.
(7)	35 mmC-4#3 AWG + #8 GND
(8)	21 mmC-3#10 AWG + #10 GND



NEW DIESEL GENERATOR SEQUENCE OF OPERATION.

- TRANSFER SWITCHES AND UNIT OPERATION SWITCH ARE NORMALLY IN AUTO POSITION. GENERATOR WILL START AND LOAD TRANSFER WITHIN 15 SECONDS OF LOSS OF UTILITY POWER.
- WHEN NORMAL UTILITY POWER OUTAGE OCCURS:**
- PHONE FORTIS ALBERTA AT 310-9743 TO SEE HOW LONG OUTAGE WILL BE. IF OUTAGE IS EXPECTED TO BE SHORTER THAN 1 HOUR, DO NOT USE THE BREAKER.
 - COMMAND THE FOLLOWING TO SHUT DOWN: ALL FAN SYSTEMS, CHILLED WATER SYSTEMS.
 - LEFT SMALL LEVER ON MAIN SWITCH TO DISCONNECT UTILITY POWER FROM THE BUILDING. INDICATOR GOES FROM CLOSED (RED) TO OPEN (GREEN).
 - DISCONNECTS 'DS-1' AND 'DS-2' ARE ALWAYS IN CLOSED POSITION.
 - SWITCH OFF FOLLOWING DISCONNECTS:
 - CAPACITOR BANK
 - NORMAL POWER TO TRANSFER SWITCH 'TS-1'
 - NORMAL POWER TO TRANSFER SWITCH 'TS-2'
 - 601 & 602
 - COP-1 GSB, T7, T8
 - REMOVE KEY FROM MAIN SWITCH (HANDLE MUST BE HORIZONTAL) AND INSERT KEY IN THE BREAKER, UNLOCK AND SWITCH THE BREAKER ON.
 - SWITCH ON 601, MONITOR DIESEL LOAD, THEN SWITCH ON 602 AND MONITOR LOAD AGAIN TURN ON DISCONNECT T1 & T6, MONITOR LOAD ON DIESEL; IF OK, SWITCH ON T7 & T8.
 - FOLLOW THE EQUIPMENT START UP PROCEDURE. START SF-4, 1, 3, 7; WAIT 5 MINUTES BETWEEN EACH START AND MONITOR DIESEL LOAD AFTER EVERY FAN START-UP.
 - SWITCH ON GSB ONLY IF NEEDED - OPERATOR'S DISCRETION. IF LEFT OFF MONITOR FIRE SUPPRESSION.
 - FOLLOW GENERATOR OPERATING PROCEDURE.

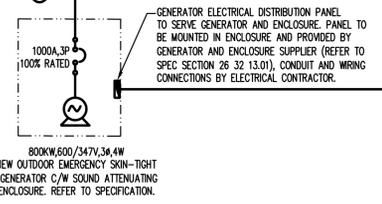
- WHEN NORMAL UTILITY POWER RETURNS:**
- INDICATED BY THE EAST GROUND FAULT DISPLAY AND/OR THE ELECTRICAL METER OUTSIDE THE GENERATOR ROOM RETURNING TO OPERATION.
- COMMAND THE FOLLOWING TO SHUT DOWN: ALL FAN SYSTEMS, CHILLED WATER SYSTEMS.
 - TURN OFF 601 & 602.
 - SWITCH OFF THE BREAKER (LEFT SMALL LEVER TO OPEN) AND REMOVE KEY.
 - TURN ON NORMAL POWER DISCONNECTS TO TRANSFER SWITCHES 'TS-1' & 'TS-2'.
 - INSERT KEY IN MAIN SWITCH, UNLOCK; THEN RESET MAIN SWITCH AS PER INSTRUCTIONS ON SWITCHGEAR.
 - TURN ON 601 & 602, COP-1 GSB & 60-LA.
 - TURN ON CAPACITOR BANK.
 - CHECK ALL SWITCHES TO ENSURE THEY ARE ON. (EXCEPT THE BREAKER).
- NOTE:** IF THE BREAKER DISCONNECT AND TRANSFER SWITCH DISCONNECTS ARE BOTH ON, TRANSFER SWITCHES IN OLD GENERATOR ROOM MAY CYCLE. (ROOM LIGHTS WOULD GO ON AND OFF).

KEY NOTES:

- EXISTING GENERATOR AND ELECTRICAL ACCESSORIES TO BE DEMOLISHED.
- EXISTING CONDUIT AND WIRING (2x103 mmC-#500 kcmil) TO BE REMOVED AND TURNED OVER TO CFA.
- EXISTING 800A FUSED SWITCH TO REMAIN. NAME TAG TO BE MARKED AS "SPARE".
- EXISTING 800A AUTOMATIC TRANSFER SWITCH 'TS-1' TO REMAIN.
- EXISTING CONDUIT AND WIRING FOR FIRE PUMP 'P-37' FROM MCC#E1 TO BE DEMOLISHED. EXISTING FUSED SWITCH IN MCC#E1 FEEDING 'P-37' TO BE MARKED AS "SPARE".
- INSTALL NEW 40A FUSED SWITCH IN EXISTING 'MDC-1' SPACE TO FEED NEW FIRE PUMP TRANSFER SWITCH. NEW SWITCH TO MATCH EXISTING SWITCH MAKE AND TYPE.
- NEW 800A, 600V FUSED DISCONNECT SWITCH 'DS-2' FOR NON-LIFE SAFETY LOADS.
- NEW FIRE PUMP RATED AUTOMATIC TRANSFER SWITCH C/W DISCONNECT 'TS-2' FOR EXISTING FIRE PUMP 'P-37'.
- NEW 800A, 600V FUSED DISCONNECT SWITCH 'DS-1' FOR EXISTING 800A TRANSFER SWITCH.
- EXISTING 2 RUNS OF #500 kcmil TECK CABLES TO BE REMOVED FROM '6ED1' AND RE-CONNECTED TO NEW DISCONNECT SWITCH 'DS-2'.
- NEW FEEDER BETWEEN EXISTING 'MDC-1' AND NEW DISCONNECT 'DS-2'. RE-USE REMOVED TECK CABLES IN KEY NOTE #10.
- INSTALL NEW 40A FUSED SWITCH IN EXISTING '6ED1' SPACE TO FEED NEW GENERATOR ELECTRICAL DISTRIBUTION PANEL. NEW SWITCH TO MATCH EXISTING SWITCH MAKE AND TYPE.

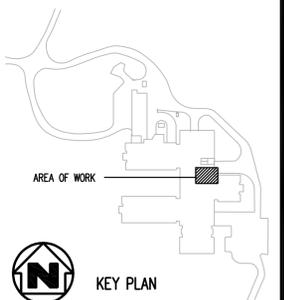
GENERAL NOTES:

- LIGHT COLORED COMPONENTS REFER TO EXISTING ELECTRICAL DEVICES. DARK COLORED COMPONENTS REFER TO NEW ELECTRICAL DEVICES.
- CONTRACTOR TO LABEL NEW ELECTRICAL EQUIPMENT, EXISTING AT'S 'TS-1' AND NEW FUSED SWITCH IN EXISTING 'MDC-1'.



DATE & TIME NAME: 13/09/2015 10:00:00 AM USER: [Name] PROJECT: [Project Name] DRAWING: [Drawing Name] SCALE: [Scale] SHEET: [Sheet Number] TOTAL SHEETS: [Total Sheets]

REVISIONS			
NO.	DESCRIPTION	DATE	BY
A	ISSUED FOR 66% REVIEW	2014.01.07	WY
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C	ISSUED FOR 100% REVIEW	2015.03.20	WY
D	ISSUED FOR TENDER	2015.03.27	WY



DRAWING NO.	DESCRIPTION
REFERENCE DRAWINGS	

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LEGEND	
	SECTION #
	SOURCE / REFERENCE DWG.
	DETAIL #
	SOURCE / REFERENCE DWG.

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PERMIT NUMBER: P 10527
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ENGINEER'S SEAL:

CALGARY OFFICE
 N195 - 3015 5 Avenue NE
 Calgary, AB T2A 0T5
 Bus: (403) 263-2700
 Toll Free: 1-800-263-2700
 Fax: (403) 263-0015
 info@williamsengineering.com
 www.williamsengineering.com

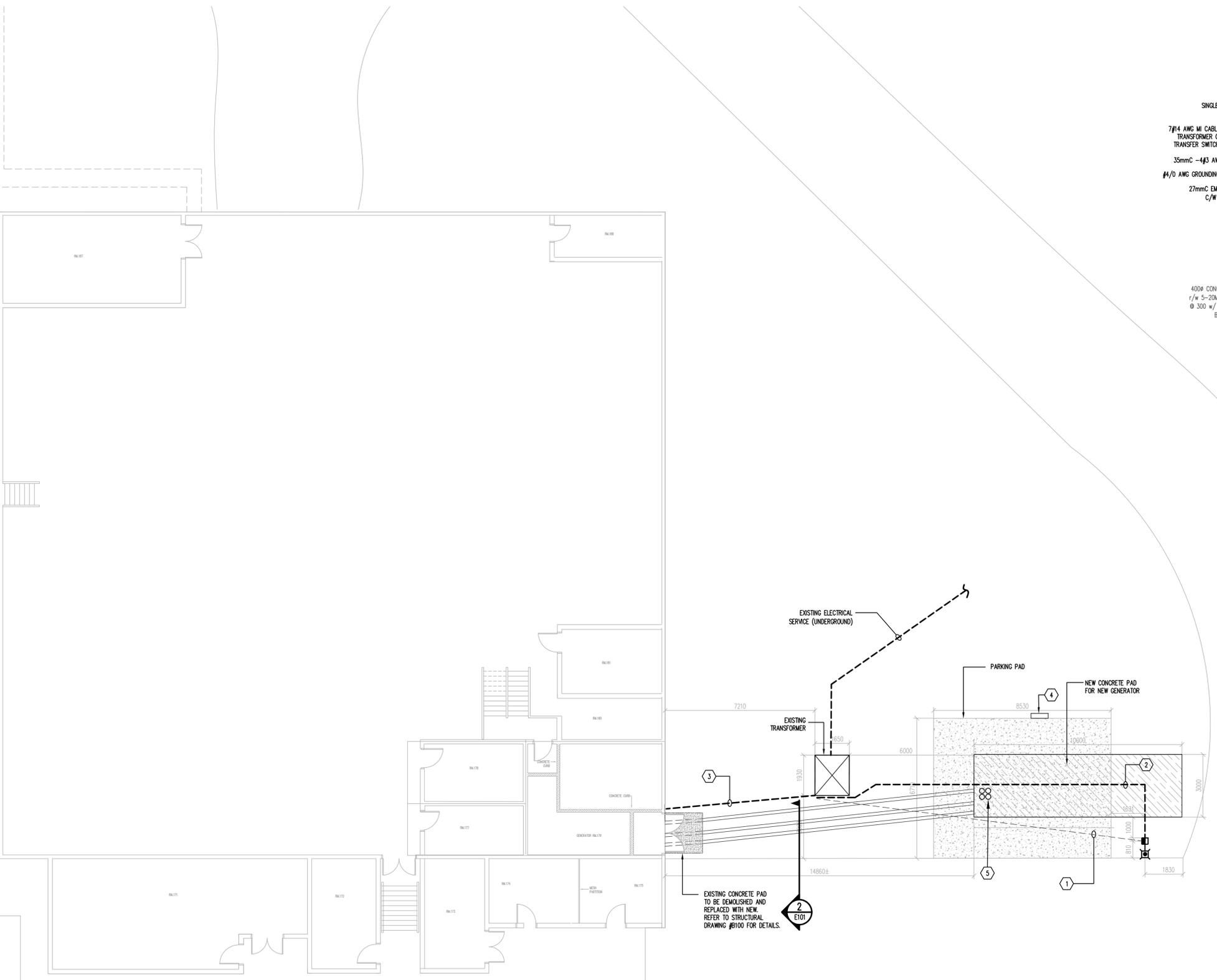
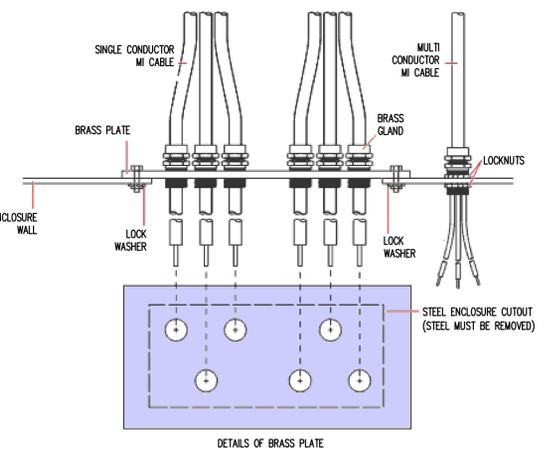
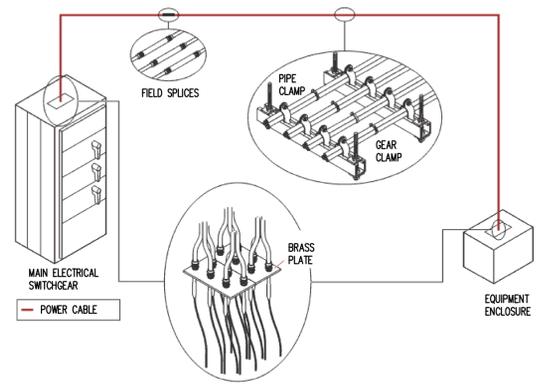
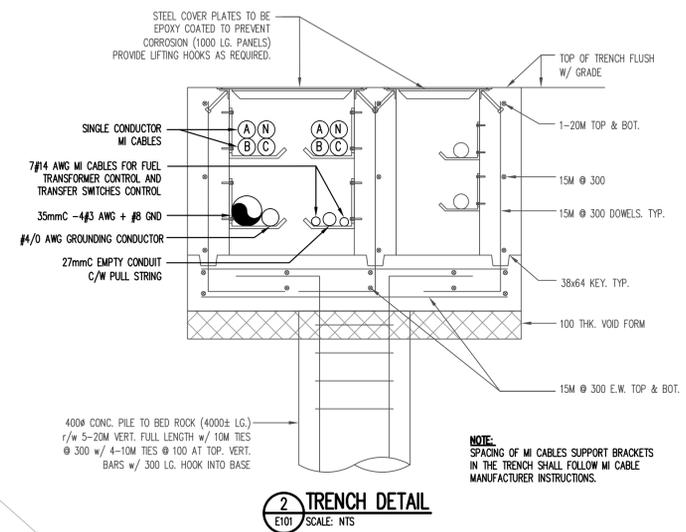
WILLIAMS ENGINEERING CANADA

CLIENT:
CANADIAN FOOD INSPECTION AGENCY
LETHBRIDGE LABORATORY
 225090-TOWNSHIP ROAD 9-1
 LETHBRIDGE, AB

JOB TITLE:
REPLACE EMERGENCY GENERATOR SET

DWG. TITLE:
ELECTRICAL SITE LAYOUT

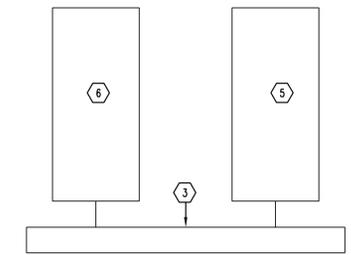
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MP	WY	WY
DATE: (YY-MM-DD)	SCALE:	AS SHOWN
2014-12-18		
CLIENT PROJ. #	WE PROJ. #	
	32113.00	
DATE: E101		2/3
		D



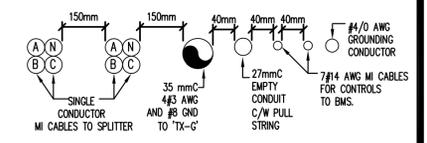
- KEY NOTES:**
- EXISTING UNDERGROUND CONDUIT AND WIRING FOR EXISTING LIGHT POLE TO BE REPLACED AND RE-ROUTE AS INDICATED IN KEY NOTE #2.
 - NEW ROUTE OF UNDERGROUND CONDUIT AND WIRING FOR EXISTING LIGHT POLE.
 - UTILITY TRANSFORMER SECONDARY TO REMAIN.
 - EXISTING PARKING RECEPTACLE PEDESTAL TO REMAIN.
 - ELECTRICAL CONDUITS STUB-UP LOCATIONS TO BE COORDINATED WITH GENERATOR ASSEMBLY (SUB-BASE FUEL TANK, GENERATOR AND SOUND ATTENUATING ENCLOSURE) AND CONCRETE PAD CONTRACTOR AFTER SHOP DRAWINGS APPROVAL.
- GENERAL NOTES:**
- CONTRACTOR TO CONTACT "ALBERTA ONE CALL" AND ENGAGE OTHER SUB-CONTRACTORS TO LOCATE UNDERGROUND FACILITIES IN AFFECTED AREAS BEFORE DIGGING. REPORT ANY EXISTING UNDERGROUND DUCTS/PIPES NOT SHOWN ON THIS DRAWING TO THE ENGINEER IMMEDIATELY PRIOR TO EXCAVATION.
 - WHERE EXISTING CONCRETE FOUNDATION WALL/CONCRETE FLOOR WHEN CORING IS REQUIRED FOR NEW ELECTRICAL CONDUITS, CONTRACTOR SHALL X-RAY EXISTING CONCRETE FOUNDATION WALL/CONCRETE FLOOR PRIOR TO CORING. PROVIDE PROPOSED CORING LAYOUT SKETCH TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

DWG. & PLOT NAME: C:\Projects\2015\20150327\20150327_001.dwg PLOTTED DATE: 1/27/2015 10:35 AM

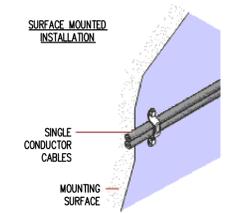
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NO.	DESCRIPTION	DATE	BY
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C	ISSUED FOR 100% REVIEW	2015.03.20	WY
D	ISSUED FOR TENDER	2015.03.27	WY



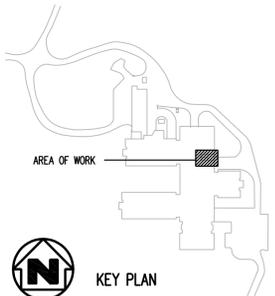
2 'DS-1' AND 'DS-2' ELEVATION
E102 SCALE: 1:25



3 CABLES SPACING DETAILS
E102 SCALE: NTS



4 TYPICAL MI CABLES INSTALLATION DETAILS
E102 SCALE: NTS



KEY PLAN

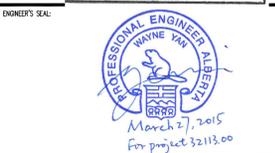
DRAWING NO.	DESCRIPTION
E102	REPLACE EMERGENCY GENERATOR SET

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SECTION #	DETAIL #
1	A
2	E

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WILLIAMS ENGINEERING CANADA INC.
Signature: *[Signature]*
Date: *March 27, 2015*
PERMIT NUMBER: P 10527
The Association of Professional Engineers, Geologists and Geophysicists of Alberta



CALGARY OFFICE
N105 - 2015 5 Avenue NE
Calgary, AB T2A 1T5
Bus: (403) 263-2700
Tel Fax: (403) 263-2703
Fax: (403) 263-0055
http://www.williamsengineering.com
www.williamsengineering.com



CLIENT:
**CANADIAN FOOD INSPECTION AGENCY
LETHBRIDGE LABORATORY**
225090-TOWNSHIP ROAD 9-1
LETHBRIDGE, AB

JOB TITLE:
REPLACE EMERGENCY GENERATOR SET

DWG. TITLE:
ELECTRICAL ROOMS LAYOUT

OWN. BY:	DES. BY:	PROJ. MGR.:
MP	WY	WY
PEER REVIEW:	DATE: (YY-MM-DD)	SCALE:
-	2014-12-18	1:50
CLIENT PROJ. #	WE PROJ. #	
	32113.00	
DATE: 2015.03.27		DWG. NO.: E102

DESCRIPTION: RGS SERIES BATTERY EMERGENCY LIGHTING UNIT, WALL MOUNT

FEATURES:

- RUGGED STEEL CABINET WITH CORROSION-RESISTANT UNDERCOATING
- REMOVABLE FRONT PANEL
- SOLID-STATE PULSE-TYPE CHARGER
- LEAD ACID BATTERY
- CSA C22.2 No.141 CERTIFIED

SPECIAL REQUIREMENTS:

2 EMERGENCY LIGHTING HEADS SHALL REQUIRE NO TOOLS FOR OPERATION.

ACCEPTABLE PRODUCTS:

MANUFACTURER: PART NUMBER:
#: LUMACELL RG24S-350-2-LH055W

Products are listed to establish reference standards.
For approval of equivalents refer to General Conditions of specification.

LUMINAIRE SCHEDULE TYPE No. BP-1

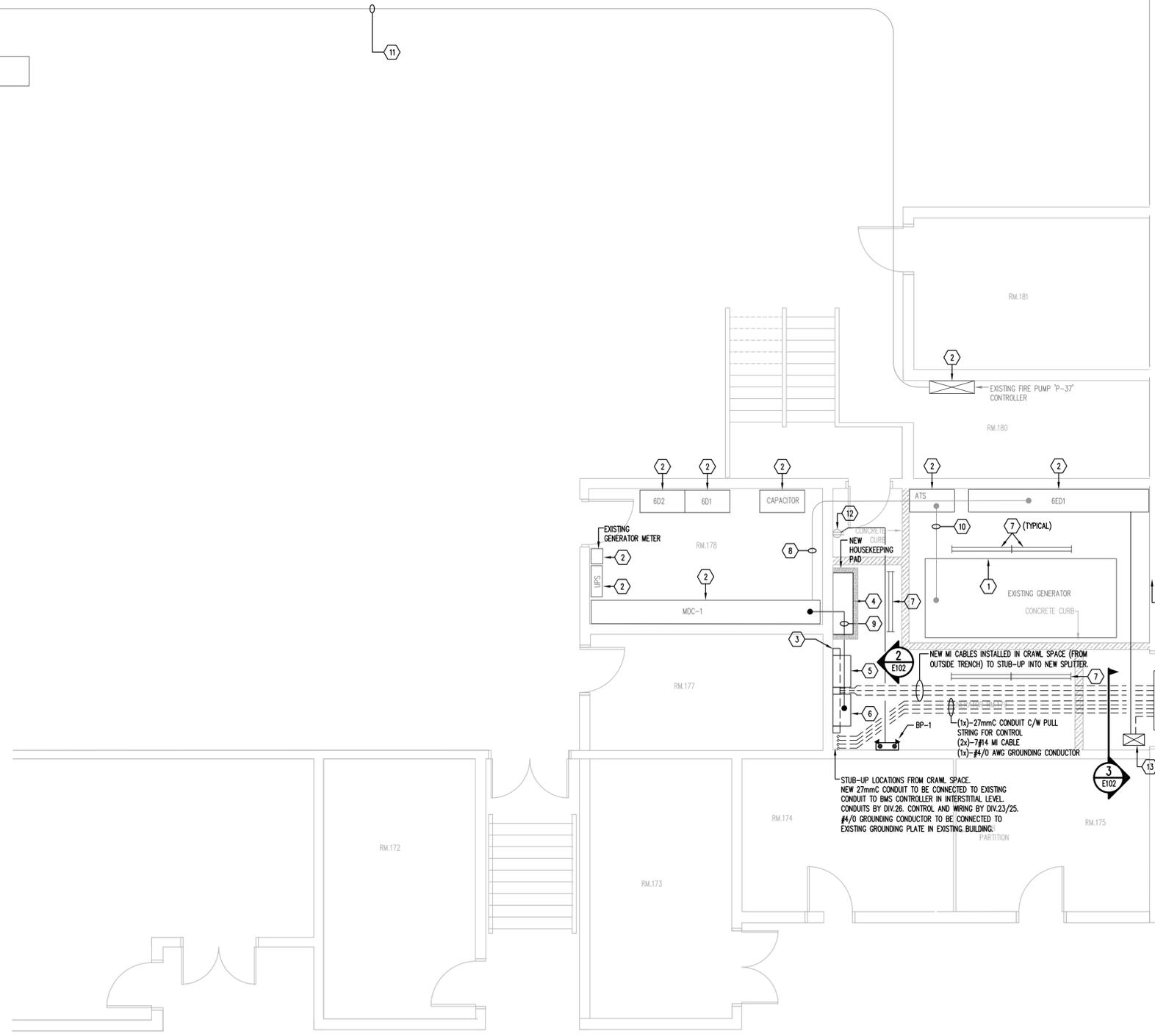


KEY NOTES:

- EXISTING GENERATOR AND ASSOCIATED GENERATOR ELECTRICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DIESEL ENGINE, ALTERNATOR, CONTROL PANEL, BATTERY CHARGER AND BATTERY, ASSOCIATED CONDUITS AND WIRING TO BE DEMOLISHED. EXISTING HANGERS/RODS SUPPORTING DEMOLISHED CONDUITS/CABLES SHOULD BE REMOVED AS WELL. ANY OPENINGS/HOLES/VOIDS AS A RESULT OF DEMOLITION SHOULD BE PATCHED TO MATCH EXISTING.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO DRAWING #E100 FOR ELECTRICAL DISTRIBUTION MODIFICATION REQUIREMENTS.
- NEW 1250A, 600/347V, 3# 4W SPLITTER.
- NEW FLOOR MOUNT FIRE PUMP RATED AUTOMATIC TRANSFER SWITCH (FOR EXISTING 20 HP, 600V, FIRE PUMP CONTROLLER) SITTING ON NEW CONCRETE PAD.
- NEW 800A, 600V FUSED DISCONNECT SWITCH 'DS-1' FOR LIFE SAFETY LOADS FED FROM EXISTING 800A AUTOMATIC TRANSFER SWITCH.
- NEW 800A, 600V FUSED DISCONNECT SWITCH 'DS-2' FOR NON-LIFE SAFETY LOADS.
- EXISTING LIGHTING, CONTROLS AND FIRE SUPPRESSION SYSTEM IN EXISTING GENERATOR ROOM TO REMAIN. CONTRACTOR TO PROTECT REMAINING SYSTEM AND COMPONENTS DURING EXISTING GENERATOR DEMOLITION AND NEW WALL CONSTRUCTION.
- EXISTING 2 RUNS OF 4#500 KCMIL TECK CABLES TO BE REMOVED FROM '6ED1' AND RE-CONNECTED TO NEW DISCONNECT SWITCH 'DS-2'.
- NEW FEEDER BETWEEN EXISTING 'MDC-1' AND NEW DISCONNECT 'DS-2'. RE-USE REMOVED TECK CABLES IN KEY-NOTE #8.
- EXISTING CONDUIT AND WIRING (2X103 MMC-4#500 KCMIL) TO BE REMOVED AND TURNED OVER TO CFA.
- EXISTING CONDUIT AND WIRING FOR FIRE PUMP 'P-37' FROM MCC#E1 TO BE DEMOLISHED. EXISTING FUSED SWITCH IN MCC#E1 FEEDING 'P-37' TO BE MARKED AS 'SPARE'.
- EXISTING DUPLEX RECEPTACLE TO REMAIN. CONTRACTOR TO RUN 16C-2#12 AWG FROM THIS RECEPTACLE TO NEW BATTERY PACK.
- NEW CEILING MOUNTED 30 KVA, 600V-120/208V DRY TYPE TRANSFORMER 'TX-G'.

GENERAL NOTES:

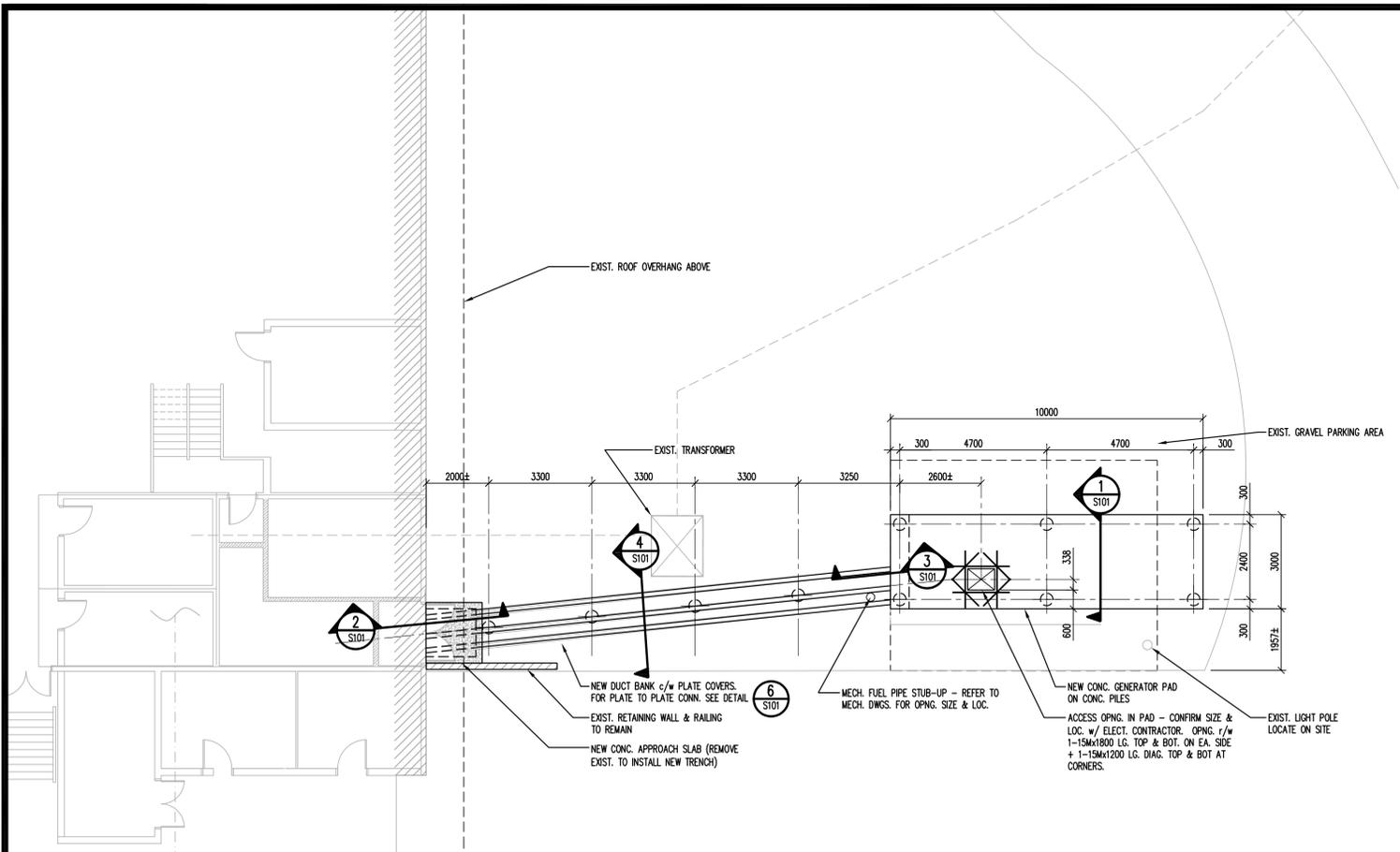
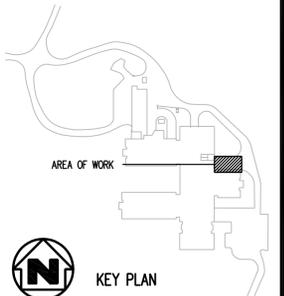
- REFER TO DRAWING #E100 FOR NEW CONDUITS AND WIRING DETAILS.
- AFTER REMOVING EXISTING CONDUITS AND CABLES, INSTALLING NEW CONDUITS AND CABLES, CONTRACTOR TO FIRE STOP OPENINGS AND PENETRATIONS IN MAIN ELECTRICAL ROOM, EXISTING GENERATOR ROOM, FIRE PUMP ROOM, CRAWL SPACE WHERE CABLES/PIPES RUN INTO THE BUILDING AND INTO EXISTING GENERATOR ROOM.
- WHERE EXISTING CONCRETE FOUNDATION WALL/CONCRETE FLOOR WHEN CORING IS REQUIRED FOR NEW ELECTRICAL CONDUITS, CONTRACTOR SHALL X-RAY EXISTING CONCRETE FOUNDATION WALL/CONCRETE FLOOR PRIOR TO CORING. PROVIDE PROPOSED CORING LAYOUT SKETCH TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.



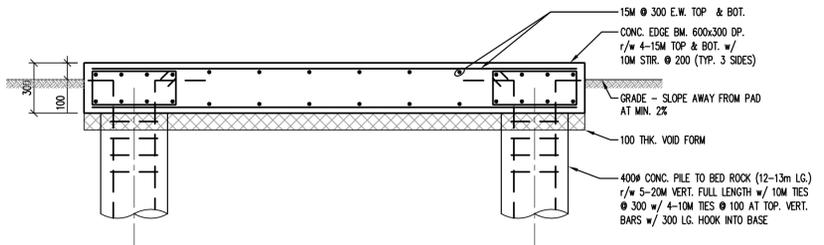
1 ELECTRICAL ROOM LAYOUT
E102 SCALE: 1:50

DATE: 2015.03.27, TIME: 10:00 AM, DRAWING NO.: E102, SHEET NO.: 3/3, PROJECT NO.: 32113.00

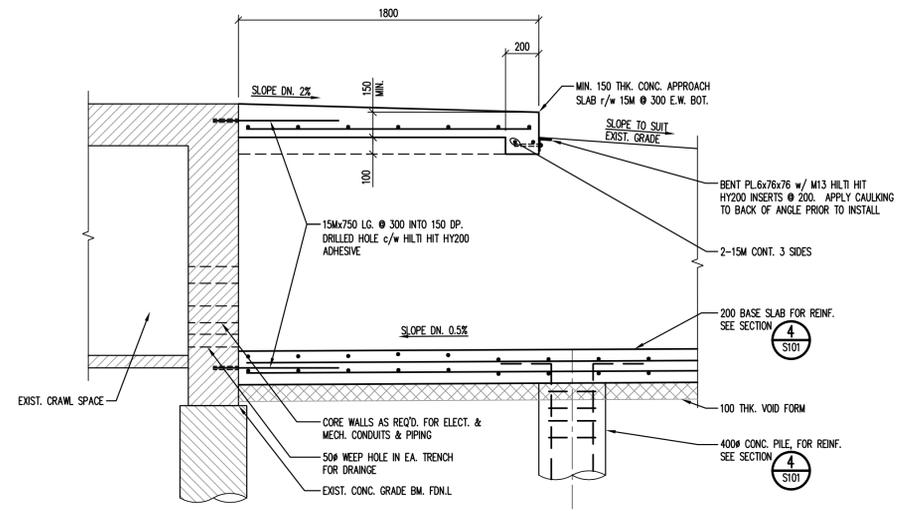
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C	ISSUED FOR 100% REVIEW	2015.03.20	DM
D	ISSUED FOR TENDER	2015.03.27	DM



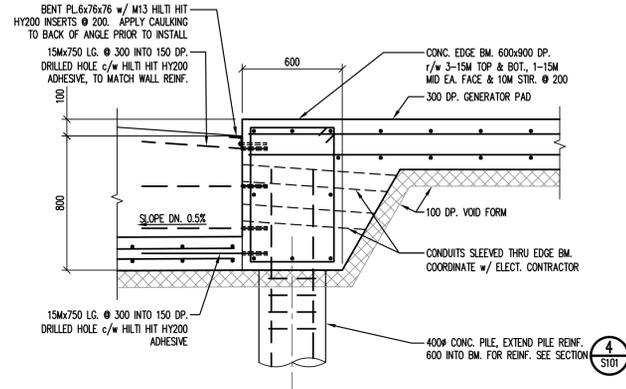
GENERATOR FOUNDATION PLAN
SCALE: 1:100



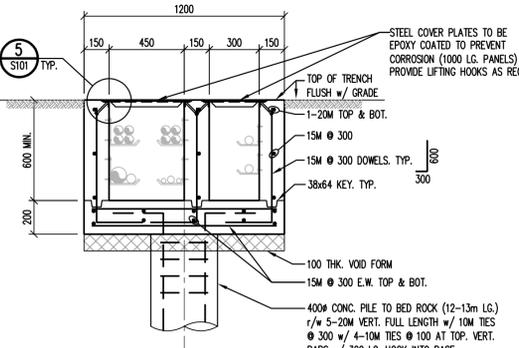
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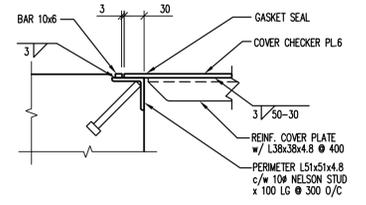
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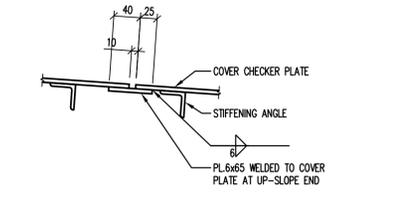
SECTION 3
SCALE: 1:20



SECTION 4
SCALE: 1:20



TRENCH FRAME & COVER DETAIL
SCALE: 1:5



TRENCH COVER PANEL TO PANEL DETAIL
SCALE: 1:5

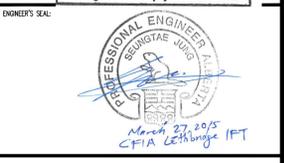
DRAWING NO.	DESCRIPTION
↑	REFERENCE DRAWINGS

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LEGEND	
SECTION #	DETAIL #
A-001	E-001
SOURCE / REFERENCE DWG.	SOURCE / REFERENCE DWG.

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WILLIAMS ENGINEERING CANADA
WE

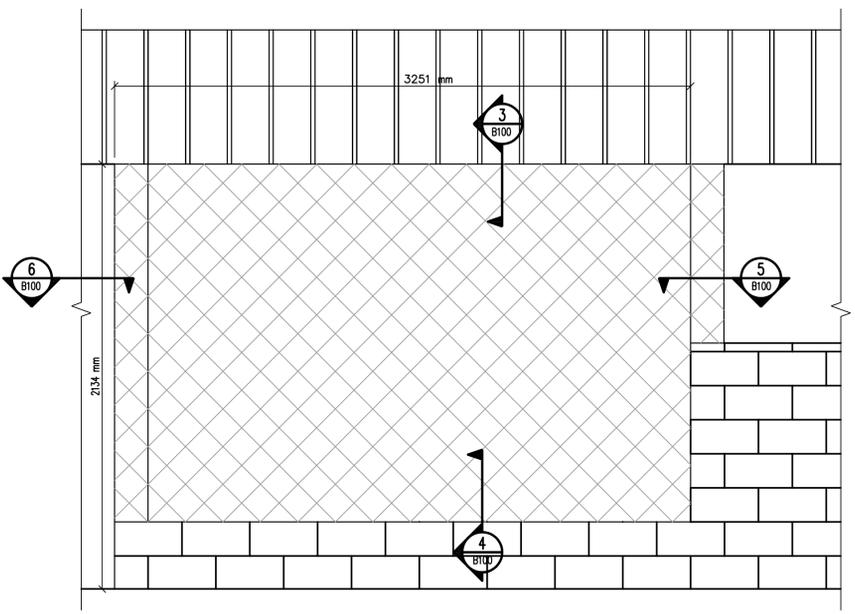
CLIENT:
CANADIAN FOOD INSPECTION AGENCY
LETHBRIDGE LABORATORY
 225090-TOWNSHIP ROAD 9-1
 LETHBRIDGE, AB

JOB TITLE:
REPLACE EMERGENCY GENERATOR SET

DWG. TITLE:
FOUNDATION PLAN & DETAILS

OWN. BY:	DES. BY:	PROJ. MGR.:
DR	SB	
PEER REVIEW:	DATE:	SCALE:
AJ	2014.12.22	AS NOTED
CLIENT PROJ. #	WE PROJ. #	DATE
	32113.00	
	S101	D

REVISIONS			
NO.	DESCRIPTION	DATE	BY
A	ISSUED FOR 90% REVIEW	2015.02.25 MW RS	
B	ISSUED FOR 100% REVIEW	2015.03.20 MW RS	
C	ISSUED FOR TENDER	2015.03.27 MW RS	

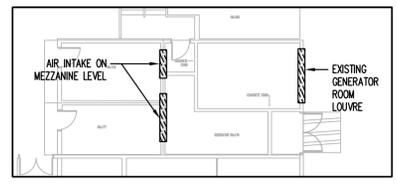


1 PARTIAL ELEVATION - LOUVRE (EXISTING GENERATOR ROOM)
B100 SCALE: NTS

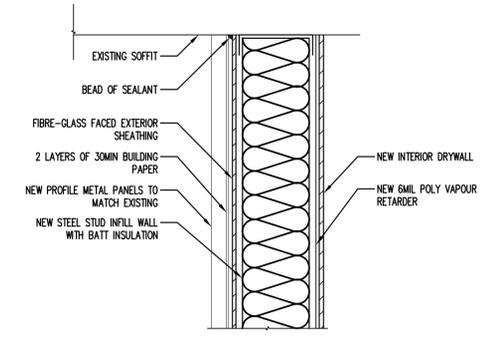
- NOTES:**
- HATCH DENOTES AREA OF WORK
 - EXISTING WINDOW, DOOR, BRICK FACADE AND SOFFIT TO REMAIN
 - DIMENSIONS FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM EXACT DIMENSIONS ON SITE.

SUMMARY OF WORK

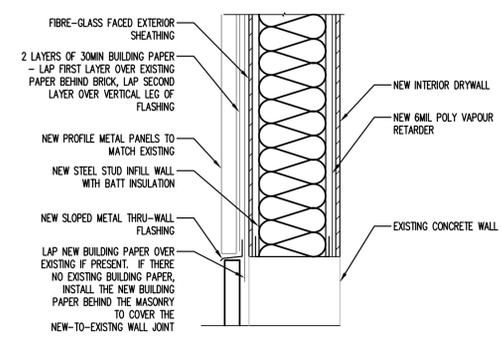
- REMOVE THE EXISTING LOUVRE AND EXTERIOR METAL PANELS LOCATED ON EACH SIDE OF THE LOUVRE. DO NOT REMOVE THE EXISTING BUILDING PAPER BEHIND THE METAL PANELS.
- INSTALL A NEW STEEL STUD WALL IN THE OPENING, SIZE TO MATCH EXISTING.
- INSULATE BETWEEN THE STUDS WITH BATT INSULATION, R VALUE TO BE DETERMINED BY WALL SIZE.
- INSTALL GML POLY VAPOUR RETARDER ON THE INTERIOR FACE OF THE STEEL STUDS.
- INSTALL GYPSUM DRYWALL ON THE INTERIOR WALL. SIZE AND FINISH TO MATCH EXISTING SURROUNDING CONDITIONS.
- INSTALL NEW FIBRE-GLASS FACED EXTERIOR GYPSUM (DENSGLASS OR EQUIVALENT) ON THE EXTERIOR SIDE OF THE STEEL STUDS.
- INSTALL TWO LAYERS OF 30MIN. BUILDING PAPER OVER THE NEW SHEATHING. ENSURE THAT THE PAPER IS INSTALLED OVER THE EXISTING BUILDING PAPER BEHIND THE BRICK FACADE.
- OVERLAP THE NEW BUILDING PAPER WITH THE EXISTING A MINIMUM OF 100MM OF EACH SIDE OF THE NEW WALL INFILL.
- APPLY A BEAD OF SEALANT TO THE WALL DIRECTLY BELOW THE EXISTING SOFFIT AND ADHERE THE LEADING EDGE OF THE BUILDING PAPER TO THE SHEATHING.
- INSTALL NEW PROFILE METAL WALL PANELS TO MATCH EXISTING.



KEY PLAN

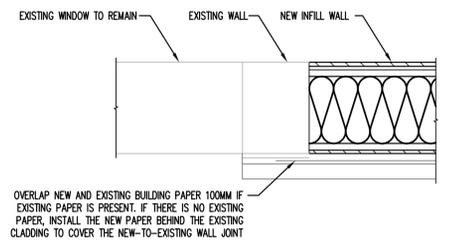


3 DETAIL - TOP OF NEW INFILL WALL
B100 SCALE: NTS

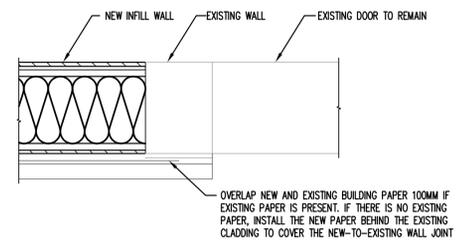


4 DETAIL - BOTTOM OF NEW INFILL WALL
B100 SCALE: NTS

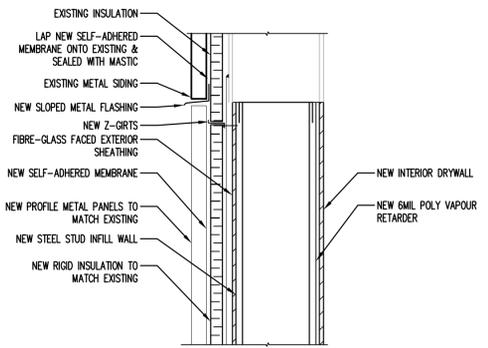
EXISTING CONDITIONS ARE AS PER THE ORIGINAL ARCHITECTURAL DRAWINGS. ANY VARIATION DISCOVERED DURING CONSTRUCTION THAT COULD NOT HAVE BEEN DETERMINED BY VISUAL REVIEW IS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT. THE DESIGN WILL BE ALTERED ACCORDINGLY.



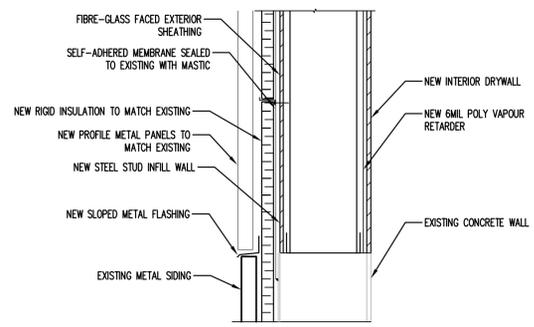
5 PLAN - NEW INFILL WALL - TO WINDOW
B100 SCALE: NTS



6 PLAN - NEW INFILL WALL - TO DOOR
B100 SCALE: NTS

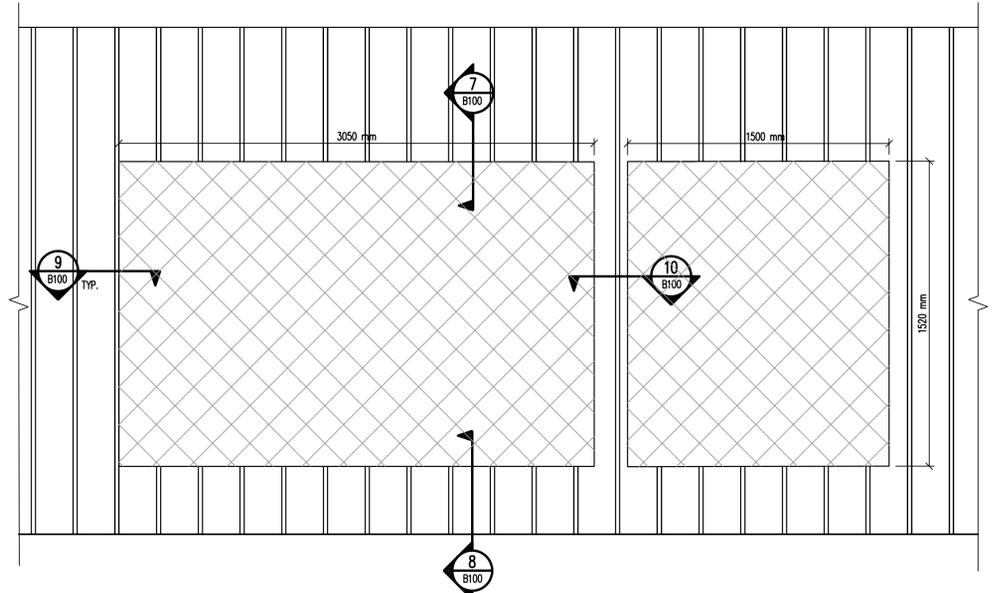


7 DETAIL - TOP OF NEW INFILL WALL
B100 SCALE: NTS



8 DETAIL - BOTTOM OF NEW INFILL WALL
B100 SCALE: NTS

EXISTING CONDITIONS ARE AS PER THE ORIGINAL ARCHITECTURAL DRAWINGS. ANY VARIATION DISCOVERED DURING CONSTRUCTION THAT COULD NOT HAVE BEEN DETERMINED BY VISUAL REVIEW IS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT. THE DESIGN WILL BE ALTERED ACCORDINGLY.

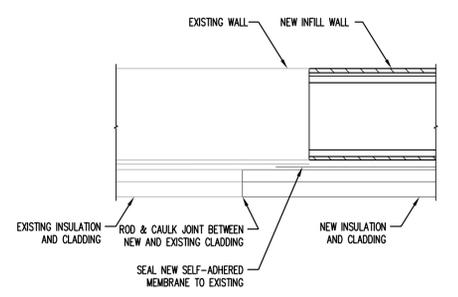


2 PARTIAL ELEVATION - AIR INTAKE (MEZZANINE LEVEL)
B100 SCALE: NTS

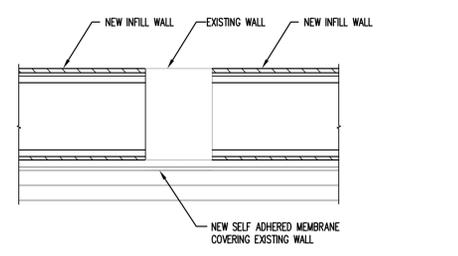
- NOTES:**
- HATCH DENOTES AREA OF WORK
 - EXISTING METAL SIDING TO REMAIN

SUMMARY OF WORK

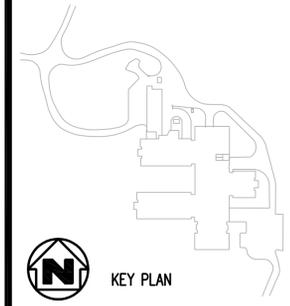
- REMOVE THE EXISTING GRILLE, REMOVE THE METAL SIDING BETWEEN THE GRILLES. REMOVE THE EXISTING FLASHING ABOVE AND BELOW THE OPENING.
- INSTALL A NEW STEEL STUD WALL IN THE OPENING, SIZE TO MATCH EXISTING.
- INSTALL GYPSUM DRYWALL ON THE INTERIOR WALL. SIZE AND FINISH TO MATCH EXISTING SURROUNDING CONDITIONS.
- INSTALL NEW FIBRE-GLASS FACED EXTERIOR GYPSUM (DENSGLASS OR EQUIVALENT) ON THE EXTERIOR SIDE OF THE STEEL STUDS.
- INSTALL ONE LAYER OF SELF-ADHERED, VAPOUR IMPERMEABLE MEMBRANE OVER THE NEW INFILL WALL AND SEAL TO THE EXISTING MEMBRANE ON ALL SIDES WITH MASTIC. THIS WILL REQUIRE PRYING BACK THE SIDING.
- INSTALL NEW Z-GRITS AND RIGID OR MINERAL WOOL INSULATION TO MATCH EXISTING.
- INSTALL NEW PROFILE METAL WALL PANELS TO MATCH EXISTING.



9 PLAN - NEW INFILL WALL TIE-IN DETAIL TYP.
B100 SCALE: NTS



10 PLAN - NEW INFILL WALL - TO EXISTING WALL
B100 SCALE: NTS



KEY PLAN

DRAWING NO.	DESCRIPTION
REFERENCE DRAWINGS	

LEGEND	
	SECTION #
	SOURCE / REFERENCE DWG.
	DETAIL #
	SOURCE / REFERENCE DWG.

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Bic: (403) 263-2393, Fax: (403) 263-2393, www.williamsengineering.com

CLIENT: **CANADIAN FOOD INSPECTION AGENCY LETHBRIDGE LABORATORY**
225090-TOWNSHIP ROAD 9-1, LETHBRIDGE, AB

JOB TITLE: **REPLACE EMERGENCY GENERATOR SET**

DWG. TITLE: **LOUVRE INFILL ELEVATION & DETAILS**

OWN. BY:	DES. BY:	PROJ. MGR.:
MW	MW	
PEER REVIEW:	DATE (YY-MM-DD):	SCALE:
RS	2015.02.17	NTS
CLIENT PROJ. #	WE PROJ. #	DATE
	32113.00	2015.02.17
<p>DATE: 2015.02.17</p> <p>SCALE: 1/8" = 1'-0"</p> <p>REV: 1</p>		<p>DATE: 2015.02.17</p> <p>SCALE: 1/8" = 1'-0"</p> <p>REV: 1</p>