Association of Professional Engineers & Geoscientists of Saskatchewan

CERTIFICATE OF AUTHORIZATION

Epp Siepman Engineering Inc.
Number 22814

Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
Mechanical	22813	
Electrical	31291	

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

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GENERAL ELECTRICAL NOTES

A. THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.
B. PENETRATIONS IN WALLS OR SEPERATIONS, REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PRODUCT REQUIREMENTS.
C. PENETRATIONS IN W2A PARTITIONS SHALL BE ACOUSTICALLY SEALED TO MAINTAIN STC 45.
D. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL, OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME.
E. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS, INCLUDING MILLWORK DETAILS AND SHOP DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICE LOCATIONS, METHOD OF INSTALLATION & MOUNTING HEIGHTS. ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
F. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE BUILDING END USER AND SHALL BE KEPT TO A MINIMUM.
G. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
I. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.
J. EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC BUSHINGS.
K. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY
L. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.
M. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 1800mm LONG FLEXIBLE METAL CONDUIT.
N. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
O. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR.
P. ALL LIFE-SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
Q. AS INDICATED IN THE GENERAL NOTES, DEMOLITION NOTES, AND KEYNOTES IN THIS DRAWING PACKAGE, UNLESS NOTED OTHERWISE, THE TERM "DEMOLISH" SHALL INCLUDE THE COMPLETE REMOVAL OF THE EXISTING ITEM IDENTIFIED, C/W ASSOCIATED WIRING, CONDUIT AND JUNCTION BOXES BACK TO LAST REMAINING DEVICE OR SOURCE. CIRCUITS FREED UP FROM DEMOLISHED ELECTRICAL, SHALL BECOME SPARE. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
R. AS INDICATED IN THE GENERAL NOTES, DEMOLITION NOTES, AND KEYNOTES IN THIS DRAWING PACKAGE, UNLESS NOTED OTHERWISE, THE TERM "REMOVE & REPLACE" SHALL INCLUDE THE COMPLETE REMOVAL & REPLACEMENT OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION, WITH A NEW ITEM, UTILIZING THE EXISTING OUTLET BOX AND WIRING. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
S. AS INDICATED IN THE GENERAL NOTES, DEMOLITION NOTES, AND KEYNOTES, UNLESS NOTED OTHERWISE, THE TERM "RELOCATE" SHALL INCLUDE THE COMPLETE RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION ON THE DEMOLITION DRAWINGS, TO THE NEW LOCATION AS INDICATED ON THE RENOVATION DRAWINGS. INCLUDE ALL LABOUR AND MATERIALS TO REROUTE/EXTEND/REFEED THE EXISTING CIRCUITRY AS REQUIRED TO ACCOMMODATE THE RELOCATION. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
T. SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
U. PROVIDE WIRE AND CONDUIT AS REQUIRED FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
V. PROVIDE CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY COMMUNICATIONS/DATA SYSTEMS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
W. PROVIDE BLANK COVERPLATES OVER ALL EXISTING UNUSED OPENINGS.
X. DEMOLISH ALL ELECTRICAL DEVICES IN WALLS, FLOORS OR CEILINGS TO BE DEMOLISHED. CONFIRM EXTENT OF DEMOLITION WITH ALL DISCIPLINE DRAWINGS. REROUTE/EXTEND/RE-FEED EXISTING ELECTRICAL AS REQUIRED TO MAINTAIN EXISTING SYSTEMS NOT INDICATED TO BE REMOVED.
Y. REMOVE ANY UNUSED OR ABANDONED WIRING AND CONDUIT WITHIN RENOVATION AREA, INCLUDING BRANCH CIRCUIT WIRING, VOICE/DATA CABLING AND SYSTEMS CABLING TO SOURCE OF SUPPLY.
Z. WHERE EXISTING WIRING AND CONDUIT ARE RE-USED, VERIFY EXISTING CONDITIONS. MODIFY AND SUPPLEMENT EXISTING FASTENING AND SUPPORT TO MEET CODE REQUIREMENTS.
AA. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
BB. ALL NEW WIRING SHALL BE CONCEALED WHERE POSSIBLE. UTILIZE ACCESSIBLE CEILING SPACE TO RUN NEW WIRING AS REQUIRED AND FISH INTO WALLS/MILLWORK.
CC. WHERE EXISTING WALLS ARE TO BE OPENED FOR INSTALLATION OF NEW WIRING, COORDINATE WITH GENERAL CONTRACTOR ROUTING OF SAME. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED.
DD. WHERE BRANCH CIRCUIT BREAKERS ARE REMOVED, PROVIDE FILLER PLATES FOR BREAKER SPACES.
EE. CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE, PRIOR TO FINALIZING PRICING.
FF. UTILIZE SPARE/FREED UP CIRCUITS FROM DEMOLITION AS REQUIRED TO ACCOMMODATE THE ADDITIONAL CIRCUITING REQUIREMENTS IN THE RENOVATION.
GG. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORIES TO ACCOMMODATE UPDATED CIRCUITING. NEW BREAKERS IN DISTRIBUTION PANELS SHALL BE LABELLED USING LAMACOIDS.

ELECTRICAL SYMBOL LEGEND

- RECESSED LIGHT
- RECESSED LIGHT
- EXIT SIGN
- LIGHT FIXTURE ON EMERGENCY CIRCUIT
- SINGLE POLE SW.
- 3-WAY SW.
- DIMMER SWITCH
- OCCUPANCY SENSOR SWITCH
- PUSH BUTTON
- OCCUPANCY SENSOR - TYPE DENOTED
- DUPLEX RECEPT. (SF = SUPPLIED BY FURNITURE PROVIDER)
- FLOOR RECEPT.
- DUPLEX RECEPT MTD ABOVE COUNTER
- DUPLEX RECEPT MTD IN MILLWORK
- DUPLEX RECEPT C/W INTEGRAL GFI
- DUPLEX RECEPT NEMA 5-20R CONFIG
- POWER POLE (OPEN OFFICE STYLE)
- SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)
- SOUND MASKING SPEAKER (MTD ABOVE CEILING)
- JUNCTION BOX
- AUTOMATIC DOOR OPERATOR PUSHBUTTON
- CIRCUIT BREAKER PANEL
- MOTOR (SEE SCHEDULE)
- TELEPHONE OUTLET (TYPE DENOTED)
- COMMUNICATION OUTLET (TYPE DENOTED)
- MULTIPLE SERVICE FLR OUTLET (TYPE DENOTED)
- FIRE ALARM HORN W/STROBE
- SMOKE DETECTOR
- HEAT DETECTOR
- ELECTRIC STRIKE
- DOOR CONTACTS
- CARD READER
- MOTION DETECTOR
- KEYPAD
- CCTV CAMERA
- LIGHT SYMBOL INDICATES EXISTING
- DASHED SYMBOL INDICATES REMOVED
- KEYED NOTE (SEE SCHEDULE)
- DEMOLITION NOTE (SEE SCHEDULE)

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER OR AIR CONDITIONER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BRK	BREAKFAST OUTLET
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CV	CENMAC VACUUM
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CKTP	COOKTOP
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
C/W	COMPLETE WITH
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DR	DEDICATED CIRCUIT RECEPTACLE
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DW	DISHWASHER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FR	REFRIGERATOR
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
FZ	FREEZER
GR	GAS RANGE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HRV	HEAT RECOVERY VENTILATION
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWP	HYDRONIC WATER PUMP
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
INT	INTERCOM
IPLC	INTELLIGENT PARKING LOT CONTROLLER
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MC	MICROWAVE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MEC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
MW	COORDINATED IN MILLWORK
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OHD	OVERHEAD DOOR
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR/PRINTER
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QP	QUADPLEX RECEPTACLE
QUAN	QUANTITY
R	RELOCATED
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SEP	SUITE ENTERPHONE PANEL
SER	SERVICE ENTRANCE RATED
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SU	SUMP PUMP
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WOV	WALL OVEN
WP	WEATHERPROOF
WS	WASHER
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
Δ	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
CL	CENTER LINE
PL	PLATE

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
   1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
   2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 10300 SQUARE MM ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 64516 SQUARE MM FOR ANY 9.29 SQUARE METER OF WALL OR PARTITION.
   3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 610mm.
B. LIGHT FIXTURES AND OTHER APPARATUS INSTALLED IN AN ACOUSTICAL CEILING GRID SHALL BE INDEPENDENTLY SUPPORTED.
C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE ULC FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE ULC FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE ULC FIRE RESISTANCE DIRECTORY.

ELECTRICAL DRAWINGS

SYMBOLS & ABBREVIATIONS
E0.1 ELECTRICAL SYMBOLS AND ABBREVIATIONS

DEMOLITION PLANS
ED2.1 SECOND FLOOR - DEMOLITION PLAN

LIGHTING PLANS
EL2.1 SECOND FLOOR - LIGHTING PLAN

POWER PLANS
EP2.1 SECOND FLOOR - POWER & SYSTEMS PLAN

KEY PLAN
NTS

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2018-02-15
PROVINCE OF SASKATCHEWAN

Revision	Description	Date
O	Issued for Construction	18-02-16

Client / client

SUITE 201

Project title / Projet

GOCB OFFICE FIT-UP
SASKATOON, SASKATCHEWAN

Designed by / Concu par: SV
Drawn by / Dessine par: SV
Approved by / Approuve par: JF
PWGSC Project Manager / Administrateur de Projets TPSGC: **AR**

Drawing title / Titre du dessin

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.055494.001	E0.1	0

1 OF 4

0 10 20 30 40 50 60 70 80 90 100mm