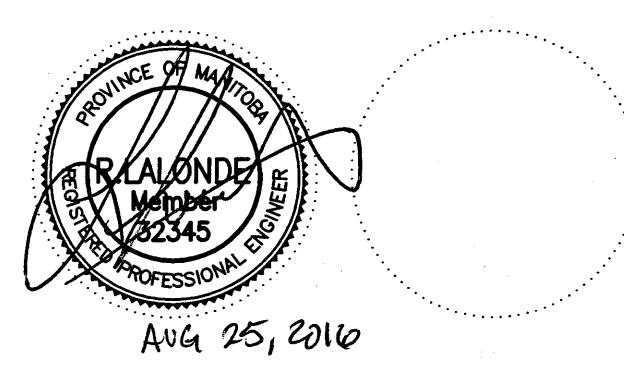


Issue / rev.

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2	2016/09/24	RE-ISSUED FOR CONSTRUCTION
1	2016/07/27	RE-ISSUED FOR CONSTRUCTION
0	2016/07/15	ISSUED FOR CONSTRUCTION

professional seals



project information

SEVEN OAKS POOL RENOVATION & ADDITION
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drawing information

ELECTRICAL SYMBOL LEGEND & DRAWING LIST
drawn by: **GCN**
approved by:
scale: **AS NOTED**
date issued: **2016.07.15**
proj. #: **14-1736-008**
rev. #: **R-2**

FIRE STOPPING NOTES

- ALL ELECTRICAL WIRES, CABLES, NONCOMBUSTIBLE RACEWAYS, OUTLET BOXES AND OTHER SIMILAR SERVICES THAT PENETRATE FIRE WALL, FIRE SEPARATION OR ASSEMBLY REQUIRED TO HAVE A FIRE RESISTANCE RATING OR FIRE SEPARATION, SHALL BE SEALED BY FIRE STOP SYSTEM WHICH HAS AN "F" AND/OR "FT" RATING NOT LESS THAN REQUIRED FIRE PROTECTION RATING OF FIRE SEPARATION.
- CONTRACTOR SHALL ONLY USE LISTED MATERIALS AND METHODS.
- SERVICE PENETRATION AND FIRE STOPPING OF SERVICE PENETRATION IN FIRE SEPARATION AND FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE CURRENT BUILDING CODE.
- PROVIDE FOR FIRE STOPS IN CONCEALED SPACES AS REQUIRED BY THE CURRENT BUILDING CODE.
- ALL FIRE RESISTANCE RATED ASSEMBLIES (I.E. WALLS CEILING, ETC.) WHICH CONTAIN PANEL BOARDS, BACK BOXES, RECESSED LIGHTING FIXTURES, ETC. SHALL BE C/W FIRE RATED BACKING TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTANCE.

GENERAL POWER NOTES

- PROVIDE LAMICOID LABELS (BLACK WITH WHITE LETTERING) FOR ALL KITCHEN AND BAR RECEPTACLES INDICATING THE FOLLOWING INFORMATION:
- PANEL AND CIRCUIT #
- EQUIPMENT TAG IDENTIFIER AND DESCRIPTION

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS TO COMPLETE THE DEMOLITION SCOPE OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SAFE THE AREA OF DEMOLITION AND FOR ENSURING THAT SAFETY PROCEDURES, PRACTICES AND OPERATIONS ARE FOLLOWED. ALL DEMOLITION AND MATERIAL SHALL BE SAFELY REMOVED TO ALLOW FUTURE CONSTRUCTION AND ALL DEBRIS DISPOSED OF ON A DAILY BASIS.
- CONTRACTOR SHALL PROVIDE SAFETY AND DUST PROOF BARRIERS TO PROTECT ALL PUBLICLY OCCUPIED AREAS DURING THE DEMOLITION AND CONSTRUCTION PERIOD. ALL AREAS, FURNITURE, EQUIPMENT ETC. THAT ARE ADJACENT OR NOT A PART OF THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE.
- ALL MATERIALS REMOVED DUE TO THE DEMOLITION OF EXISTING AREAS ARE OF THE OWNER'S PROPERTY IN WHICH THE OWNER HAS THE FIRST RIGHT TO CLAIM. ALL ITEMS THAT ARE NOT CLAIMED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISCARD FROM SITE.
- NON-DEMOLITION ITEMS MAY BE SHOWN ON THE DRAWINGS TO DESCRIBE THE INTENT OF THE OVERALL SCOPE OF WORK AND TO AID THE CONTRACTOR WITH THEIR COORDINATION. CONTRACTOR SHALL FIELD VERIFY ALL DEVICE LOCATIONS.
- WHERE CONDUITS ARE TO BE REMOVED WITHIN THE SCOPE OF WORK, ALL CONDUITS AND ASSOCIATED WIRING (I.E. FEEDER CIRCUIT WIRING) SHALL BE REMOVED BACK TO THEIR SOURCE AND NOT JUST TO THE NEAREST JUNCTION BOX.
- ALL OBSOLETE/ABANDONED CABLEING AND CONDUIT WITHIN CEILING SPACES THAT ARE AFFECTED BY THE AREA OF DEMOLITION SHALL BE COMPLETELY REMOVED.
- WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED, ALL WALLS/CEILINGS SHALL BE REPAIRED TO EXISTING CONDITIONS. SURFACES SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.

GENERAL LIGHTING NOTES

- SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LUMINAIRES. THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE OVER THE LIGHTING PLAN IN REGARDS TO LUMINAIRE LOCATIONS.
- COORDINATE THE MOUNTING HEIGHT OF ALL LUMINAIRES WITH THE CONTRACT ADMINISTRATOR PRIOR TO ROUGH-IN.
- CONFIRM ALL LUMINAIRE FINISHES WITH THE CONTRACT ADMINISTRATOR PRIOR TO ORDERING.
- PROVIDE ALL ACCESSORIES INCLUDING TRIM RINGS, STEMS, CANOPIES, CORDS, MOUNTING HARDWARE, RESTRAINTS, HURRICANE CLIPS, ETC., NECESSARY TO MOUNT THE FIXTURE IN A COMPLETE, AND APPROVED METHOD.
- PROVIDE CHAIN HANGERS FOR ALL SUSPENDED CHANNELS AND/OR STRIPLIGHTS IN UNFINISHED AREAS.
- PROVIDE DRYWALL FRAMES FOR ALL LINEAR FLUORESCENT LUMINAIRES THAT ARE RECESSED INTO DRYWALL CEILINGS.
- SUPPORT ALL LUMINAIRES COMPLETELY INDEPENDENT OF ANY SUSPENDED CEILING.
- PROVIDE EXTENSIONS FOR RECESSED LUMINAIRES WHERE REQUIRED BY THE CEILING THICKNESS. COORDINATE WITH THE ARCHITECTURAL DETAILS.
- WHEN REQUIRED, PROVIDE FIRE-RATED LUMINAIRE COVERS (LUMINAIRE TENTS) FOR LUMINAIRES INSTALLED IN FIRE-RATED CEILING ASSEMBLIES OR PROVIDE FIRE-RATED BOXES AROUND EACH LUMINAIRE. COORDINATE LOCATIONS OF FIRE-RATED CEILING ASSEMBLIES WITH THE ARCHITECTURAL PLANS.
- PROVIDE LUMINAIRES THAT ARE INSULATED CEILING (IC) RATED WHEN RECESSED INTO INSULATED CEILINGS. IF THE FIXTURE CAN NOT BE PROVIDED WITH AN IC RATING, INSULATION SHALL NOT BE INSTALLED ABOVE OR WITHIN 3 INCHES OF THE LUMINAIRE. COORDINATE LOCATIONS OF INSULATED CEILINGS WITH THE ARCHITECTURAL PLANS.
- COORDINATE MOUNTING LOCATION, NUMBER OF FACES, AND DIRECTIONAL ARROWS OF EXIT SIGNS AS REQUIRED TO MARK PATHS OF EGRESS TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- PROVIDE A FACTORY-INSTALLED OR FIELD-INSTALLED EMERGENCY BATTERY THAT PROVIDES A MINIMUM OF 30 MINUTES OF RUN TIME IN EACH LUMINAIRE INDICATED AS EMERGENCY LUMINAIRE.
- VERIFY FINAL LINEAR LED LENGTH PRIOR TO ORDERING. ORDER POWER SUPPLY PER MANUFACTURER'S RECOMMENDATIONS IN ORDER FOR FIXTURES TO BE SUPPLIED BY 120V.

GENERAL NOTES

- WHERE THE MECHANICAL DESIGN UTILIZES A PLENUM RETURN AIR CEILING DESIGN, ALL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE PLENUM RETURN CEILING MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILING. COORDINATE PLENUM CEILING LOCATIONS WITH THE MECHANICAL SUBCONTRACTOR. LUMINAIRES THAT ARE MANUFACTURED WITH A METAL HOUSING MEET THIS REQUIREMENT AND ARE NOT REQUIRED TO BE PLENUM RATED UNLESS INDICATED OTHERWISE.
- COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITH ANY MILLWORK VENDOR PRIOR TO ROUGH-IN.
- COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT IS NOT LIMITED TO MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AUDIO/VISUAL EQUIPMENT, FIRE SUPPRESSION SYSTEM EQUIPMENT, ETC. THE ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL SUBCONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.
- THE ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR PRESERVING THE FIRE RATING OF ANY FIRE-RATED CEILING ASSEMBLIES BY PROVIDING THE APPROPRIATE FIRE-RATED LUMINAIRE TENTS AS MANUFACTURED BY TENMAT OR NELSON FIRESTOP OR BY BUILDING FIRE-RATED ENCLOSURES AROUND EACH LUMINAIRE THAT IS RECESSED INTO THE FIRE-RATED ASSEMBLY. COORDINATE FIRE-RATED CEILING ASSEMBLY LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15- OR 20- AMPS AND 120 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE-IN-USE IN WET LOCATIONS).
- ALL LUGS, TERMINALS, ETC. IN ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED FOR A MINIMUM OF 75 DEGREES C CONDUCTORS. TERMINATIONS LISTED FOR ONLY 60 DEGREES C CONDUCTORS ARE NOT PERMITTED.
- CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #10 AWG AND LARGER ARE PERMITTED TO BE STRANDED.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
LIGHTING	
\$x	WALL SWITCH DENOTATION: a - LIGHTS CONTROLLED D - DIMMER CONTROL O - OCCUPANCY MOTION SENSOR LV - LOW VOLTAGE 3 - 3-WAY SWITCH
	POLE MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	CEILING MOUNTED LUMINAIRE
A1-a	2'X4' RECESSED LIGHT FIXTURE DENOTATION: A1 - PANEL (A1) AND CIRCUIT #(1) a - CONTROL SWITCH(ES) A - FIXTURE TYPE
A	2'X4' SUSPENDED LIGHT FIXTURE
	1'X4' RECESSED LIGHT FIXTURE
	1'X4' SUSPENDED LIGHT FIXTURE
	6'X4' STRIP LIGHT FIXTURE
CC	CEILING MOUNTED OCCUPANCY SENSOR
NOTE: HATCHING OF LIGHT FIXTURES INDICATES NIGHT LIGHT FUNCTION.	
FIRE ALARM	
	FIRE ALARM PULL STATION
	FIRE ALARM HORN
	FIRE ALARM LOUD HORN
	FIRE ALARM BELL
	FIRE ALARM BELL/STROBE
	FIRE ALARM STROBE
	FIRE ALARM HORN/STROBE
	FIRE ALARM SPEAKER/STROBE
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE SWITCH
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	ISOLATION MODULE
	ADDRESSABLE MONITORING MODULE
	FIRE ALARM REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM MAGNETIC HOLD OPEN DEVICE
	ELECTRIFIED FIRE ALARM DOOR CLOSURE
	BEAM DETECTOR RECEIVER
	BEAM DETECTOR TRANSMITTER
	END OF LINE RESISTOR
	REMOTE CONTACT
ABBREVIATION LIST	
ABBREVIATION	DESCRIPTION
a	MOUNTED ABOVE COUNTER/TABLE
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
CM	CEILING MOUNTED
FM	FLOOR MOUNTED
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
C	COPIER
D	DRYER
R	RANGE
F	FRIDGE
DW	DISHWASHER
AV	AUDIO/VISUAL
PA	PUBLIC ADDRESS
NL	NIGHT LIGHT
15/20	T-SLOT RECEPTACLE
V	VENDING MACHINE
HC	HANDICAP

SYMBOL LEGEND

SYMBOL	DESCRIPTION
POWER	
	CEILING MOUNTED DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	RANGE (R)/DRYER (D) RECEPTACLE
	QUADPLEX RECEPTACLE
	SQUARE JUNCTION BOX
	FIELD EQUIPMENT
	ELECTRICAL PANELBOARD
	CONDUIT STUB
	CONDUIT HOMERUN
	CONDUIT RUN DOWN
	CONDUIT RUN UP
	LOCAL DISCONNECT SWITCH
	BASEBOARD HEATER
	CEILING MOUNTED DUPLEX RECEPTACLE c/w RECEPTACLE CORD
	MOTOR LOAD
	MUSHROOM STYLE EMERGENCY STOP BUTTON
	HAND DRYER
	TIME CLOCK
POWER (SINGLE LINE)	
	TRANSFORMER
	BREAKER
COMMUNICATIONS	
	DATA (D)/TEL (V) OUTLET (# - IND. CABLE QTY)
	DATA OUTLET (# - INDICATES CABLE QTY)
	TEL OUTLET (# - INDICATES CABLE QTY)
	AUDIO/VIDEO OUTLET
	CEILING SPEAKER
	WALL MOUNTED CLOCK
	PA CALL SWITCH
	PA HORN SPEAKER
	PA MICROPHONE OUTLET
	WIRELESS ACCESS POINT
SECURITY AND CONTROL	
	CAMERA
	PROXIMITY CARD READER
	DOOR CONTACT
	DOOR OPERATOR
	PIR MOTION SENSOR
	PUSH BUTTON
	SECURITY SIREN
	KEYPAD
	DROWNING SYSTEM LOCAL ALARM STATION
	POOL INTRUSION BEAM DETECTOR RECEIVER
	POOL INTRUSION BEAM DETECTOR TRANSMITTER
	DISTRESS ALARM PUSH BUTTON STATION
	DISTRESS ALARM STROBE
	DISTRESS ALARM AUDIBLE DEVICE
EXIT LIGHTING	
	EXIT SIGN - SINGLE FACED
	EXIT SIGN - SINGLE FACED ARROW INDICATES DIRECTION
	EXIT SIGN - DOUBLE FACED ARROWS INDICATE DIRECTION
	EXIT SIGN - WALL MOUNTED SINGLE FACED ARROW INDICATES DIRECTION
	EXIT SIGN - WALL MOUNTED DOUBLE FACED ARROW INDICATES DIRECTION
EMERGENCY LIGHTING	
	EMERGENCY LIGHTING - BATTERY 2 HEADS
	EMERGENCY LIGHTING - REMOTE 2 HEADS
	EMERGENCY LIGHTING - REMOTE 1 HEAD
	EMERGENCY LIGHTING - EXIT c/w REMOTE 2 HEADS AND RECEPTACLE
	EMERGENCY LIGHTING - BATTERY BACKUP

DRAWING LIST

REVISION	DWG. No.	DESCRIPTION
R-2	E0-00	SYMBOL LEGEND AND DRAWING LIST
R-1	E0-01	SINGLE LINE DIAGRAM - DEMOLITION
R-1	E0-02	SINGLE LINE DIAGRAM AND LOAD CALCULATIONS
R-2	E1-00	CRAWLSPACE POWER & SYSTEMS - DEMO
R-1	E1-01	MAIN FLOOR POWER & SYSTEMS - DEMO
R-0	E1-02	MEZZANINE POWER & SYSTEMS - DEMO
R-0	E2-00	CRAWLSPACE LIGHTING - DEMO
R-2	E2-01	MAIN FLOOR LIGHTING - DEMO
R-0	E2-02	MEZZANINE LIGHTING - DEMO
R-2	E3-00	CRAWLSPACE POWER & SYSTEMS - NEW
R-3	E3-01	MAIN FLOOR POWER & SYSTEMS - NEW
R-1	E3-02	MEZZANINE POWER & SYSTEMS - NEW
R-0	E3-03	ROOF PLAN - NEW
R-0	E4-00	CRAWLSPACE LIGHTING - NEW
R-2	E4-01	MAIN FLOOR LIGHTING - NEW
R-1	E4-02	MEZZANINE LIGHTING - NEW
R-2	E5-00	LUMINAIRE SCHEDULE
R-1	E5-01	EQUIPMENT SCHEDULE
R-3	E5-02	PANEL SCHEDULES & DETAILS
R-0	E6-00	FIRE ALARM DETAILS
R-3	E6-01	SCHEMATIC DIAGRAMS AND DETAILS
R-1	E6-02	FIRE ALARM RISER DIAGRAM

DRAWING QUANTITY = 22