































POWER		
	DUPLEX RECEPTACLE	
	SQUARE JUNCTION BOX	
	RECTANGLE JUNCTION BOX	
	FIELD EQUIPMENT	
	ELECTRICAL PANELBOARD	
	CONDUIT STUB	
	CONDUIT RUN DOWN	
	CONDUIT RUN UP	
	EQUIPMENT LOAD	
	LOCAL DISCONNECT SWITCH	
	STARTER	

POWER (SINGLE LINE & WIRING DIAGRAM)		
	TRANSFORMER	
	UTILITY METER	
	PT	
	CT	
	FUSE	
	CIRCUIT BREAKER	
	GROUND	
	LOCAL DISCONNECT	
	STARTER	
	CONTACTOR	
	NEMA 4X ENCLOSURE	
	DISCONNECT SWITCH	

LIGHTING		
	2X4' RECESSED LIGHT FIXTURE	
DENOTATION: A1 - PANEL (A) AND CIRCUIT #1) a - CONTROL SWITCHES) A - FIXTURE TYPE		
	2X4' SUSPENDED LIGHT FIXTURE	
	1X4' RECESSED LIGHT FIXTURE	
	1X4' SUSPENDED LIGHT FIXTURE	
	SINGLE POLE SWITCH	
DENOTATION: a - LIGHTS CONTROLLED D - DIMMER CONTROL O - OCCUPANCY MOTION SENSOR LV - LOW VOLTAGE 3 - 3-WAY SWITCH		
	TWO SWITCHES IN GANG	
	THREE SWITCHES IN GANG	

- GENERAL NOTES
- DEVICE SYMBOLS SHOWN ON THE DRAWINGS AS A "GREY" LINE WEIGHT DENOTES THAT THEY ARE EXISTING.
  - COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR OR SUB-CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT IS NOT LIMITED TO MECHANICAL EQUIPMENT, ETC. THE ELECTRICAL SUB CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT.
  - ELECTRICAL SUB CONTRACTOR TO CONFIRM EXACT SIZE AND LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL SUB CONTRACTOR PRIOR TO INSTALLATION OF ANY WIRING. ADJUST WIRING, BREAKERS, ETC. TO SUIT. ALL COSTS TO BE INCLUDED IN BASE TENDER QUOTE.
  - THE ELECTRICAL SUB CONTRACTOR SHALL UTILIZE EMT CONDUIT WITH WATER TIGHT CONNECTORS INDOORS AND HOT-DIPPED RGS OUTDOORS.
  - REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF MECHANICAL EQUIPMENT.
  - THE ELECTRICAL SUB CONTRACTOR SHALL PROVIDE LINE VOLTAGE ELECTRICAL CONNECTIONS FOR THE MECHANICAL CONTROLS SUB CONTRACTOR CONTROL PANELS AS REQUIRED. THE EXACT NUMBER OF CONNECTIONS SHALL BE COORDINATED WITH THE MECHANICAL CONTROLS SUB CONTRACTOR PRIOR TO TENDER.
  - COORDINATE THE EXACT PHASING OF THE WORK WITH THE MECHANICAL SUB CONTRACTOR.
  - THE ELECTRICAL SUB CONTRACTOR SHALL CORE THROUGH WALLS AND FLOORS AS REQUIRED FOR ANY NEW CONDUIT AND WIRING RUNS.

- GENERAL DEMOLITION NOTES
- ELECTRICAL SUB CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
  - PRIOR TO COMMENCEMENT OF ANY WORK, THE ELECTRICAL SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS TO COMPLETE THE DEMOLITION SCOPE OF WORK.
  - ELECTRICAL SUB 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.
  - ELECTRICAL SUB 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 THE CITY'S PROPERTY IN WHICH THE CITY HAS THE FIRST RIGHT TO CLAIM. ALL ITEMS THAT ARE NOT CLAIMED BY THE CITY SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUB 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 ELECTRICAL SUB CONTRACTOR WITH THEIR COORDINATION. ELECTRICAL SUB 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 CABLING 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.

- FIRE STOPPING NOTES
- ALL ELECTRICAL WIRES, CABLES, NON-COMBUSTIBLE RACEWAYS, OUTLET BOXES AND OTHER SIMILAR SERVICES THAT PENETRATE FIRE WALLS, FIRE SEPARATIONS OR ASSEMBLIES AND THAT ARE 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 THE REQUIRED FIRE PROTECTION RATING OF FIRE SEPARATION.
  - ELECTRICAL SUB 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, CEILINGS, 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 LIGHTING NOTES
- SEE THE LIGHTING PLAN FOR EXACT LOCATIONS OF ALL LUMINAIRES.
  - COORDINATE THE MOUNTING HEIGHT OF ALL LUMINAIRES PRIOR TO ROUGH-IN.
  - CONFIRM ALL LUMINAIRE FINISHES 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 ANY SEISMIC BRACING AND/OR RESTRAINTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
  - PROVIDE CHAIN HANGERS FOR ALL SUSPENDED CHANNELS AND/OR STRIPLIGHTS IN UNFINISHED AREAS.
  - PROVIDE DRYWALL FRAMES FOR ALL 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.
  - CONTRACTOR SHALL PROVIDE ALL REQUIRED ZONE SENSING RELAYS EITHER INTEGRAL OR IN A SEPARATE ENCLOSURE IN COMBINATION WITH ALL EMERGENCY BATTERY UNITS. QUANTITY OF ZONE RELAYS SHALL BE A MINIMUM OF FOUR. CONTRACTOR TO ENSURE ADEQUATE ZONE SENSING RELAYS ARE PROVIDED TO MEET CEC 46-304 (4)

NOTES:

THESE DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.

THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.

ALL OPENINGS THROUGH THE FIRE SEPARATIONS AS A RESULT OF THE WORK OF THIS CONTRACT ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE AND SMOKE-TIGHT BARRIER.

ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURERS SPECIFICATIONS & APPLICABLE CODES.


THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.

WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.


WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

0	ISSUED FOR TENDER	CLS	18.08.21	
No.	REVISION/DESCRIPTION	BY	DATE	

SEAL



DRAWN	SD	CHECKED	DESIGNED	CLS	APPROVED	CLS
DATE	20180818	USER				
APPROVAL						



THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND  
DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT

BOILER ROOM  
COMBUSTION AIR UPGRADE  
AT PAN AM POOL  
25 POSEIDON BAY

SHEET TITLE		
ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES		
SCALE AS SHOWN	PROJECT No: 18-0107-006	SHEET No: E01

