SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING	Ħ	DUPLEX RECEPT	2-•	SPECIAL CONNECTION(SEE SCHEDULE)
Θ	SURFACE LIGHT	⊕~⊕	RECEPT ON DROP CORD(DUPLEX SHOWN)	◯SF-1	MOTOR(SEE SCHEDULE)
0	SURFACE LIGHT		RECEPT ON CORD REEL(DUPLEX SHOWN)		POWER OR DISTRIBUTION PANEL
	RECESSED LIGHT(TYPE DENOTED)	ullet	SPILT DUPLEX RECEPT		SPECIAL CABINET(TYPE DENOTED)
• •	SUSPENDED OR PENDANT LIGHT	⊨	RECEPT ON EMERGENCY CKT(DUPLEX SHOWN)		
\bigcirc \rightarrow	RECESSED DOWNLIGHT(WALL WASH)	⊨€	RECEPT C/W WET LOCATION COVERPLATE(DUPLEX SHOWN)		GENERAL ELECTRIC
\bigcirc	SUSPENDED RING LIGHT	Ħ	RECEPT C/W INTEGRAL GFI(DUPLEX SHOWN)	$\models \ominus$	LIGHT SYMBOL INDICATES EXISTING
——	STRIP LIGHT(TYPE DENOTED)	₩	RECEPT C/W NEMA 5-20R CONFIG	Ħ	DASHED SYMBOL INDICATES REMOVED
\bigcirc	BOLLARD		RECEPT MTD IN FLOOR(DUPLEX SHOWN)	H::	KEYPAD
	EMERGENCY BATTERY LIGHT(TYPE DENOTED)	\Rightarrow	RECEPT MTD IN MILLWORK(DUPLEX SHOWN)	+ <u>\$</u> H <u>S</u> M	SECURITY NOTIFICATION APPLIANCE
*	EMERGENCY LIGHT - REMOTE HEAD	Θ Θ	JUNCTION BOX	HVB VB	VIBRATION DETECTION(TYPE DENOTED)
Θ_{E}	EXIT LIGHT	P_{B}	PULL BOX	H●R	DURESS PUSHBUTTON - RECESSED
₩E €E	EXIT LIGHT C/W REMOTE HEAD	0	GROUND ROD	HSS	DURESS ALERT LIGHT
	LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH	\supseteq	GROUND CONNECTION TO STEEL OR STRUCTURE	HRE	DURESS RANGE EXTENDER
	LIGHT FIXTURE ON (EM) CRITICAL BRANCH	•	GROUND CONNECTION - EXOTHERMIC WELD	ACE	ACCESS CONTROL ENCLOSURE
(/)	SINGLE POLE SW	•	BUS CONNECTION	IDSCP	INTRUSION DETECTION SYSTEM CONTROL PANEL
(2 POLE SINGLE THROW SW	\top	TELECOM GROUND BUS	IDSCP IND	INTRUSION DETECTION SYSTEM CONTROL PANEL - INDEPENDEN
Ю	SINGLE RECEPT	\odot	STATIC GROUND RECEPT(TYPE DENOTED)		

ELECTRICAL SYMBOL NOTES



LIGHTING FIXTURES. "NL" INDICATES THAT THE LIGHTING FIXTURE IS ON A NIGHT LIGHT BRANCH. THE LIGHTING FIXTURE TYPE IS INDICATED BY UPPER CASE LETTERS AND NUMBERS. THE CIRCUIT DESIGNATION IS INDICATED BY LETTERS AND NUMBERS SEPARATED BY A DASH. THE SWITCH DESIGNATION IS INDICATED BY A LOWER-CASE LETTER. EXAMPLE: THE LIGHTING FIXTURE SHOWN HAS THE FOLLOWING PROPERTIES: IT IS ON A NIGHT LIGHT BRANCH; ITS LIGHTING FIXTURE TYPE IS "RL01"; IT IS CONNECTED TO PANEL A, CIRCUIT 12; AND IT IS CONTROLLED BY SWITCH "b".

EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE SIGNAGE TYPE IS INDICATED BY UPPER CASE LETTERS AND NUMBERS PRECEDING THE "/". THE ASSOCIATED BATTERY BANK IS INDICATED BY UPPERCASE LETTERS AND NUMBERS FOLLOWING THE "/". THE AC CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "EX1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO BATTERY BANK "BU1" AND AC CIRCUIT 14 FROM PANEL A.

DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO PANEL A, CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY A SWITCH.

THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE:

SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d". SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY THE TAG. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT

TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 1, 3, 5.

KEYNOTE. SEE THE KEYED NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED. (TYP) INDICATES THAT THE NOTE IS TYPICAL OF THE APPLICATION.

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 21mm (3/4") CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER SLASH MARK IN 21mm (3/4") CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR, CHEVRON=CATEGORY 6, HALF CHEVRON=CATEGORY 3, TWIST=SHIELDED TWISTED PAIR, CONCENTRIC CIRCLE AND DOT=COAX CABLE.

HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD LPN-102; CIRCUITS 1, 3, 5.

MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT A-2,4,6 SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 2, 4, 6.

ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY THE ASSOCIATED TAG. SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "BB8.05" CONNECTED TO PANEL A, CIRCUITS 7, 9.

ELECTDICAL ARRDEVIATIONS LIST

A MPERE GA GAUGE PH PHASE AF AMP FRAME GALV GALVANIZED PHIL PANEL AFF ABOVE FINISHED ELOOR GC GENERAL CONTRACTOR PVC POLYVINYL CHLORIDE (CO AFG ABOVE FINISHED GRADE GFI GROUND RATE OF ARCHOLOGY FOR ACT OF	1P	1 POLE (2P, 3P, 4P, ETC.)	FZ	FREEZER	PDSCF	POOL DROWING SYSTEM
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AMP AMPERE	A. T		GND	GROUND		
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TR TOLE BOX ON TON D PHASE			PB	FULL BOX OK PUSHBUTTON	Ø	PHASE

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. OUTLET BOXES THAT PENETRATE OPPOSITE SIDES OF A WALL ASSEMBLY SHALL BE OFFSET WHERE NECESSARY TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION.

ELECTRICAL DRAWINGS

SYMBOLS & ABBREVIATIONS

E0.1 ELECTRICAL SYMBOLS AND ABBREVIATIONS

DEMOLITION PLANS

ED2.1 MAIN FLOOR - DEMOLITION PLAN ED2.2 BASEMENT - DEMOLITION PLAN

POWER PLANS

ELP2.1 MAIN FLOOR - LIGHTING & POWER PLAN ELP2.2 BASEMENT - LIGHTING & POWER PLAN

SCHEDULES

E6.1 ELECTRICAL SCHEDULES

GENERAL NOTES

THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL

- DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.

 A. 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. EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL
- EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE CONTRACT ADMINSTRATOR AND SHALL BE KEPT TO A MINIMUM.
- ALL LIFE-SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONTRACT
- ADMINSTRATOR PRIOR TO CARRYING OUT WORK. AS INDICATED IN CONTRACT DOCUMENTS, 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.
- AS INDICATED IN CONTRACT DOCUMENTS, 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. AS INDICATED IN CONTRACT DOCUMENTS, 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.
- SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
- 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 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. PROVIDE BLANK COVER PLATES OVER ALL EXISTING
- UNUSED OPENINGS. DRAWING RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION SUBMITTED BY THE CITY AND FROM SITE OBSERVATIONS AS NOTED BY THE CONTRACTOR ADMINSTRATOR. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE
- EXTENT OF KNOWN CONSTRUCTION INFORMATION. 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 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. WHERE EXISTING WIRING AND CONDUIT ARE RE-USED, VERIFY EXISTING CONDITIONS. MODIFY AND SUPPLEMENT EXISTING FASTENING AND SUPPORT TO
- MEET CODE REQUIREMENTS. WIRING SHALL BE CONCEALED WHERE POSSIBLE. UTILIZE CRAWLSPACE AND/OR ACCESSIBLE CEILING SPACE TO RUN NEW WIRING AS REQUIRED AND FISH
- INTO WALLS/MILLWORK. 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.



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THE CITY OF WINNIPEG ASSETS & PROJECT MANAGEMENT DEPARTMENT

MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4

SEVEN OAKS POOL

444 ADSUM DRIVE

ELECTRICAL SYMBOLS AND **ABBREVIATIONS**

SHEET No: ROJECT No: 2023-0220 As indicated

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