



**ELECTRICAL POWER & SYSTEMS RENOVATION NOTES: "X"**

- ALSO SEE NOTES & SPECIFICATIONS.  
 ALL WIRING & CABLING SHALL BE CONCEALED IN DOOR JAMB &/OR IN WALL CAVITY FOR FINISH SPACE (EG. OFFICES, BREAKOUT ROOM, CORRIDORS...)  
 ALL WIRING & CABLING IN CEILING SPACE SHALL BE PLENUM RATED AS PER LATEST CEC.  
 PANEL "EM-3" (EMERGENCY POWER) IS LOCATED ON WEST WALL IN THE SUB-BASEMENT BY THE SEWAGE LIFT PIT.
- POWER**
    - 1.1. PROVIDE JUNCTION BOX, JB, WITH CIRCUITS SHOWN IN EMT TO PANEL. MOUNTED JB SECURELY UNDERSIDE OF STRUCTURAL CEILING & ROUTE DOWN THROUGH EXISTING WALL CAVITY WITH NEW EMT TO CONCRETE FLOOR & ELBOW FLUSH WITH CONCRETE FLOOR TO FLOOR ACCESS BOX (FAB). LOW-FLOORING CONTRACTOR TO PROVIDE MODULAR ELECTRICAL HARNESSES TO FAB WITH 20A RECEPTACLES.
    - 1.2. SURFACE MOUNT: SIMILAR TO NOTE 1.1. EXCEPT USE LEGRAND 2-CHANNEL WIREMOLD 5400 SERIES COMPONENTS INSTEAD OF EMT TO ENTER INTO CAB-2.
  - COMMUNICATION**
    - 2.1. MOUNT J-HOOK SECURELY UNDERSIDE OF STRUCTURAL CEILING AT 6 FEET O/C & ROUTE DOWN THROUGH EXISTING WALL CAVITY WITH NEW 2" EMT TO CONCRETE FLOOR WITH RADIUS ELBOW FLUSH WITH CONCRETE FLOOR. ROUTE CAT6 CABLES INSIDE 2" PLENUM INNERDUCT WITH PULL TAPE ALONG FLOOR TO COMMUNICATION FAB. TERMINATE ENDS & INSTALL FACEPLATE TO FAB. REFER TO DATA CABLING SPECIFICATIONS.
    - 2.2. SURFACE MOUNT: SIMILAR TO 2.1. EXCEPT USE OTHER CHANNEL OF WIREMOLD MENTIONED IN NOTE 1.2 ABOVE.
  - POWER DOOR OPERATOR, AS PER ARCH. DWG.**
    - 3.1. PROVIDE NEW POWER DOOR OPERATOR, SEE ARCH. DOOR SCHEDULE, WITH 120V, 15A CIRCUIT #12/2 RW90 IN EMT TO DESIGNATED 15A/1P CIRCUIT BREAKER, SETUP FOR "PUSH & GO" & DOOR ACTUATOR (DA). OPERATORS TO BE MOUNTED ON SECURED SIDE.
  - CARD ACCESS CABLE**
    - 4.1. PROVIDE HONEYWELL PROFUSION ACCESS CONTROL CABLE 3195 (PLENUM RATED, CMP LISTED) USING J-HOOK SUPPORT AT 6 FEET O/C FROM CARD ACCESS DOOR TO CARD ACCESS CABINET IN STORAGE B-21. PROVIDE COILED-UP 7 FEET UNTERMINATED CABLE LENGTHS AT BOTH ENDS & LABEL CABLES WITH DOOR DESIGNATION, CABLE TERMINATIONS, SETUP, COMMISSIONING & CARD ACCESS COMPONENTS BY THE CITY EXCEPT FOR CARD ACCESS CABINET & POWER SUPPLIES.
    - 4.2. PROVIDE CARD ACCESS CABINET (ALTRONIX TROVE1 M1, 14"5W x 18"W x 4.62"D) WITH TMI/ALTRONIX/MERCURY BACKPLANE, POWER SUPPLY BACKUP FOR 4 HOURS MINIMUM & ACCESSORY KIT.
  - PROVIDE A DUPLEX RECEPTACLE TO CIRCUIT SHOWN. MOUNT HEIGHT TO CLEAR FURNITURE BACK PANEL. SPACE DUPLEX RECEPTACLE & DATA DEVICE BOX MAXIMUM 6" O/C.**
    - 5.1. PROVIDE 1" EMT INSIDE WALL FROM CEILING SPACE TO (2) DATA DROPS TERMINATED TO A SINGLE DEVICE BOX WITH TWO-PORT FACEPLATE. HOME RUN & TERMINATE CABLES TO NEW NETWORK DATA PATCH PANEL IN STORAGE ROOM M-21. ALSO SEE DATA CABLING SPECIFICATIONS.
  - PROVIDE A LABELED "DEDICATED" DUPLEX RECEPTACLE TO CIRCUITS SHOWN.**
    - 6.1. PROVIDE (2) DATA DROPS TERMINATED TO A SINGLE DEVICE BOX WITH A (4)-PORT FACEPLATE WITH (2) PORTS AS BLANK. HOME RUN & TERMINATE CABLES TO NETWORK DATA PATCH PANEL IN STORAGE ROOM M-21.
  - VAV LOW-VOLTAGE SUPPLY**
    - 7.1. PROVIDE A DEDICATED 15 AMP CIRCUIT BREAKER TO (1) NEW TRANSFORMER WITH AUTOMATIC SHORT CIRCUIT PROTECTION 120VAC - 24 VAC, 100VA RATING, PLATE MOUNTING. MOUNT PLATE SECURELY TO WALL IN FINISH SPACE NEAR CEILING. LOCATION MUST BE EASILY ACCESSIBLE FOR SERVICING. LABEL "VAV TRANSFORMER (TR-1).
  - PROVIDE A DEDICATED 208V, 15 AMP CIRCUIT FOR BASEBOARD HEATER, BB-1, #12/2 RW90 WIRE IN 1/2" EMT TO CIRCUIT SHOWN. SEE HEATER SCHEDULE FOR CONTROL.**
    - 8.1. PROVIDE CIRCUIT & DISCONNECT FOR EXHAUST FAN, F-B1, #12/2 RW90 WIRE IN 1/2" EMT TO CIRCUIT SHOWN.
  - PROVIDE (2) 4'X8'X3/4" THICK PLYWOOD SHEETS PAINTED WITH GREY FIRE RETARDANT PAINT (MOUNT 8" LENGTH VERTICAL & BUTT TOGETHER - CENTERED ON WALL WIDTH) FOR CAB-1 & CARD ACCESS PANEL.**
  - PROVIDE A LABELED "DEDICATED" DUPLEX RECEPTACLE CIRCUITS IN EMT AS SHOWN FOR NETWORK CAB-1. MOUNT DUPLEX RECEPTACLES OUTSIDE CAB-1. WALL-MOUNT CAB-1 SECURELY AT 72" AFF WITH CAB-1 TOP.**
  - PROVIDE & CONFIGURE FIBRE OPTIC (OM3 MMF WITH LC CONNECTORS) CONNECTION IN 1" EMT TO MAIN FLOOR EAST ELECTRICAL ROOM, M-17. FIBER OPTIC PANEL, CONFIRM PATHWAY WITH CONTRACT ADMINISTRATOR. INCLUDE ALL REQUIRED FIBER COMPONENTS INCLUDING PRELOADED TRU PANEL PANEL & TERMINATION BOX.**
  - PROVIDE DURESS CALL BUTTON & MOUNT UNDERSIDE OF DESK. CONFIRM LOCATION WITH CONTRACT ADMINISTRATOR. CONNECT WITH 18/2 STRANDED WIRE IN 1" EMT TO EXISTING DURESS CONTROL SYSTEM ON MAIN FLOOR, JANITOR ROOM M-16 WITH 15 FEET COILED LENGTH IN CEILING. LABEL BOTH CABLE ENDS, TERMINATION & PROGRAMMING OF DURESS CONTROL SYSTEM IN ROOM M-16 BY THE CITY.**
  - LOCATIONS OF POWER, DATA & HDMI IN-WALL DEVICE BOXES FOR TV IN MANAGER OFFICE B-15 & ON EAST & WEST WALLS TO BE LOCATED 18" BFC OR TO CLEAR TV WALL MOUNT/ADJUSTMENTS & BE HIDDEN BEHIND TV. IF MANAGER OFFICE B-15 & WEST WALL CAVITY DEPTH IS INSUFFICIENT - LOCATE TO CEILING.**
  - DATA & HDMI CABLES TO BE HOME RUN WITH TERMINATED ENDS & LABELLED TO NETWORK PATCH PANEL & MATRIX SWITCH IN CAB-2, RESPECTIVELY. PROVIDE GROMMETS ON FACEPLATE FOR SUFFICIENT LENGTH CABLES TO CONNECT DIRECTLY TO TV.**
  - TV & TV MOUNTS SUPPLIED BY THE CITY AS PER LOCATION ON ARCHITECTURAL DRAWINGS.**
  - REINSTALL & RECONNECT EXISTING MOTORIZED SCREEN TO EXISTING SWITCH AS PER LOCATION ON ARCHITECTURAL DRAWINGS.**
  - REINSTALL NEW PROJECTOR SUPPLIED BY THE CITY ONTO EXISTING PROJECTOR CEILING MOUNT. REINSTALL EXISTING SPEAKERS TO WALL. CONNECT WITH NEW CABLES TO AMPLIFIER & MATRIX SWITCH IN CAB-2 & POD-5.**
  - PROVIDE CAB-2 & WALL MOUNT 24" FROM WEST WALL & 10" AFF. INSTALL THE CITY SUPPLIED MATRIX SWITCH ONTO RACK. INSTALL 2RU RACKSHELF FOR EXISTING TOA AMPLIFIER (BG-2060). INSTALL WIREMOLD FROM NOTE 1.1 ABOVE AT TOP OF CAB-2 TO ALLOW PATHWAY INTO CAB-2 FROM CEILING SPACE. ALSO DO SAME FOR BOTTOM. INSTALL WIREMOLD FROM NOTE 1.1 ABOVE AT BOTTOM OF CAB-2 TO ALLOW PATHWAY INTO CAB-2 FROM RAISED FLOOR CAVITY.**
    - 16.1. COORDINATE WITH CATV PROVIDER (SHAW?) TO SUPPLY & INSTALL CATV CABLING & CONNECTOR TO A DEVICE BOX ON RACK MOUNT.
  - IN AREA OF WORK, PROVIDE NEW FACEPLATES & LABELS TO EXISTING DAMAGED OR MISSING FACEPLATES. PROVIDE FACE PLATES TO COVER ABANDON WALL OPENINGS.**

PANEL 'B'		MOUNTING LOCATION		VOLTAGE		REMARKS	
FLUSH (EXISTING) BASEMENT (EMERGENCY OPERATION CENTRE)		120/208V-3PH-4W		200A		CIV LOCKABLE DOOR	
NOTES:	DESCRIPTION	LOAD WATTS	BKR	CIRCUIT	LOAD WATTS	DESCRIPTION	NOTES:
EXIST	PLUG: EOC RM. B-20			15 1	22 15	LITE: OPSI	EXIST
EXIST	PLUG: EOC RM. B-20			15 2	23 15	LITE: OPSI	EXIST
EXIST	PLUG: EOC RM. B-20			15 3	24 15	LITE:PLUG: OPSI	EXIST
EXIST	PLUG: EOC RM. B-20			15 4	25 15	????	EXIST
NEW	DOOR OPERATOR: EOC ENTRANCE B-14a			15 5	26 15	LITE: OPSI	EXIST
NEW	DOOR OPERATOR: EOC AREA B-20			15 6	27 15	PLUG: OPSI	EXIST
EXIST	PLUG: EOC RM. B-20			15 7	28 15	????	EXIST
NEW	TRANSFORMER: VAV EOC CLOSET			15 8	29 15	COUNTER PLUG: OPSI KITCHEN	EXIST
EXIST	SPARE			15 9	30	POWER POLE	EXIST
EXIST	SPARE			15 10	31 15	COUNTER PLUG: OPSI KITCHEN, MICROWAVE	EXIST
EXIST	PLUG, LITES: SOUTH STAIR RM. B-24			15 11	32 15	FRIDGE PLUG: OPSI KITCHEN	EXIST
EXIST	PLUG, SOUTH STAIR RM. B-24			15 12	33 15	????	EXIST
EXIST	LITES: OPSI			15 13	34 15	???? PRINTER	EXIST
REWIRE TO NEW BB-1	HEATER (BB-1): EOC STORAGE RM B-21			15 14	35 15	????	EXIST
EXIST	XEROX: EOC RM. B-20			15 15	36 15	????	EXIST
EXIST	PLUG: TECH SHOP			15 16	37	PLUG (DEDICATED): DISHWASHER, EOC LUNCH B-19	NEW
NEW	EXHAUST FAN (F-B1): EOC STORAGE B-21			15 17	38	PLUG (DEDICATED): MICROWAVE, EOC LUNCH B-19	NEW
SPACE				15 18	39	PLUG (DEDICATED): FRIDGE, EOC LUNCH B-19	NEW
SPACE				15 19	40	PLUG: COUNTER & EAST WALL, EOC LUNCH B-19	NEW
SPACE				15 20	41	SPACE	NEW
SPACE				15 21	42	SPACE	NEW

PANEL 'EM3' (EMERGENCY POWER)		MOUNTING LOCATION		VOLTAGE		REMARKS	
SURFACE (EXISTING) SUB-BASEMENT BASEMENT (BY SEWAGE PIT)		120/208V-3PH-4W		200A		FED FROM TR 'C' FED FROM MCC#1 FED FROM 510 MAIN, FLOOR 1, EMER. PNL, COP L7-ELD02	
NOTES:	DESCRIPTION	LOAD WATTS	BKR	CIRCUIT	LOAD WATTS	DESCRIPTION	NOTES:
NEW	LITES: EOC			20 1	2 15	PHONE PLUGS	EXIST
EXIST	ELEV. LITES			15 3	4 15	LAW OFFICE	EXIST
EXIST	SPARE			30 5	6 15	LAW OFFICE	EXIST
				7	8 15	CONFERENCE RM.	EXIST
EXIST	COUNCIL PLUGS			15 9	10 15	CONFERENCE RM.	EXIST
EXIST	SPARE			30 11	12 15	CONFERENCE RM.	EXIST
				13	14 15	PAINT SHOP	EXIST
EXIST	COUNCIL PLUGS			15 15	16 15	PAINT SHOP	EXIST
EXIST	COUNCIL PLUGS			15 17	18	PAINT SHOP	EXIST
EXIST	COUNCIL PLUGS			15 19	20 15	EXIT LITES	EXIST
EXIST	COUNCIL LITES			15 21	22 15	EXIT LITES	EXIST
EXIST	COUNCIL LITES			15 23	24 15	EXIT LITES	EXIST
EXIST	EMERG OPERATION CENTRE (EOC) LUNCHROOM			15 25	26 15	????	EXIST
NEW	PLUG: CEILING TV, EOC AREA B-20			15 27	28 15	BASEBOARD HEATER	EXIST
NEW	PLUG: CEILING TV, EOC AREA B-20 (EAST WALL)			15 29	30		
NEW	PLUG (DEDICATED): XEROX, EOC AREA B-20			15 31	32 30	HEAT PUMP	EXIST
NEW	PLUG (DEDICATED): PLOTTER, EOC AREA B-20			15 33	34		
NEW	PLUG: OFFICE B-16a, BREAKOUT B-17			20 35	36		
EXIST	ELEV. RM. LITES			37	38 15	PLUG: MAIN FLOOR EAST NETWORK RM.	EXIST
EXIST	EXHAUST FAN #1			39	40 15	PLUG: MAIN FLOOR EAST NETWORK RM.	EXIST
EXIST	ELEV. PLUG			41	42 15	IT ROOM RACK PLUG: MAIN FLOOR	EXIST
EXIST	FAN FORCE HEATER			30 43	44 15	IT ROOM RACK PLUG: MAIN FLOOR	EXIST
				45	46 15	PLUG (DEDICATED): EOC STORAGE B-21	NEW
EXIST	BASEBOARD HEATER			15 47	48 15	PLUG (DEDICATED): EOC STORAGE B-21	NEW
				49	50 20	PLUG: FLOOR BOX: EOC AREA B-20 (POD-1)	NEW
EXIST	BASEBOARD HEATER			15 51	52 20	PLUG: FLOOR BOX: EOC AREA B-20 (POD-2)	NEW
				53	54 20	PLUG: FLOOR BOX: EOC AREA B-20 (POD-3)	NEW
EXIST	HEAT PUMP			40 55	56 20	PLUG: FLOOR BOX: EOC AREA B-20 (POD-4)	NEW
				57	58 20	PLUG: FLOOR BOX: EOC AREA B-20 (POD-5, CAB-2)	NEW
				59	60 15	PLUG: EOC: MANAGER B-15, OFFICE B-16	NEW

NOTES:  
 REFER TO DRAWING E1.

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	DTA	2018.08.24
00	ISSUED FOR 60% CLIENT REVIEW	DTA	2018.08.17



DRAWN	DTA	CHECKED	DESIGNED	DTA	APPROVED
DATE	2018.07.26	USER	APPROVAL		

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

PROJECT  
 COUNCIL BUILDING  
 EMERGENCY OPERATIONS CENTRE RENOVATIONS

510 MAIN STREET  
 BID OPPORTUNITY: 870-2018

SHEET TITLE  
 PARTIAL BASEMENT FLOOR PLAN  
 RENOVATION  
 POWER, SYSTEMS, PANEL SCHEDULES

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2018-010	E3