



BASEMENT FLOOR PLAN - POWER AND SYSTEMS
SCALE 1:75

ELECTRICAL POWER AND SYSTEMS NOTES: "X"

- ALSO SEE NOTES & SPECIFICATIONS.
ALL WIRING & CABLING SHALL BE CONCEALED IN DOOR JAMB &/OR IN WALL CAVITY FOR FINISH SPACES. ALL WIRING & CABLING IN CEILING SPACE SHALL BE PLENUM RATED AS PER LATEST CEC.
1. ELECTRICAL CONDUIT SUPPORT
 - 1.1. PROVIDE ANCHORED SUPPORT RODS TO CEILING TO SUPPORT 16" MINIMUM LONG UNISTRUTS ALONG LAYOUT SHOWN. PROVIDE STEEL EMT CLAMPS FOR UNISTRUT MOUNTING. MOUNT HEIGHT TBD.
 2. COMMUNICATION TRAY SYSTEM
 - 2.1. PROVIDE COMMUNICATION TRAY SYSTEM TO SUPPORT CABLING FOR DATA, FUTURE CARD ACCESS, TELEPHONE, INTRUSION ALARM, LIGHTING CAT5e. SYSTEM SHALL BE LEGRAND "CABLOFIL CABLE MANAGEMENT" WITH CABLOFIL CABLE TRAY CF105/300 (4" HEIGHT x 12" WIDTH) ALL NECESSARY CLAMP KITS, SUPPORTS, BRACKETS, DROPOUTS, CABLE EXITS, CLIPS, MOUNT HEIGHT TBD. GROUNDING SHALL CONFORM TO LATEST CEC.
 - 2.2. ATTACH CABLE TRAY TO TOP OF ELECTRICAL CONDUIT SUPPORT UNISTRUT.
 3. TRANSFORMER POWER FOR VAVs
 - 3.1. PROVIDE DEDICATED 120V/1PH, 15A CIRCUIT WITH BREAKER TO (2) TRANSFORMER WITH AUTOMATIC SHORT CIRCUIT PROTECTION, 120VAC-24VAC, 100VA RATING. PLATE MOUNTING. MOUNT TRANSFORMERS WITH PLATE SECURELY ON WALL AT 2300mm AFF.
 4. REFER TO MOTOR SCHEDULE FOR WIRE & CONNECT OF EQUIPMENT. TYPICAL.
 5. MOUNT EMERGENCY SIGN/ BATTERY UNIT ABOVE DOOR AT 2400mm AFF.
 6. MOUNT COMPACT DOUBLE REMOTE EMERGENCY LAMPS AT 2400mm AFF.
 7. TELEPHONE/COMMUNICATION BACKBOARD. REFER TO SPECIFICATION.
 8. LINE-VOLTAGE THERMOSTAT WITH 24V RELAY & TRANSFORMER 347V/24V TO CONTROL BASEBOARD HEATER & VAV.
 9. PROVIDE NETWORK RACK & MOUNT SECURELY TO FLOOR. PROVIDE 1000mm SPACE IN FRONT & BEHIND & 600mm AT SIDES FOR ACCESS. REFER TO ELECTRICAL LEGEND FOR EQUIPMENT SPECIFICATION.
 10. PROVIDE IN-DUCT SMOKE DETECTOR & ALL NECESSARY COMPONENTS TO BE MOUNTED ON AHU-1 RETURN DUCT. WIRE WITH RELAY & ALL NECESSARY COMPONENTS TO BUILDING ALARM CONTROL PANEL. HEAT & SMOKE DETECTOR CONTACTS. CONFIGURE TO SHUT-DOWN AHU-1 WHEN HEAT &/OR SMOKE DETECTOR IS ACTIVATED. REFER TO DRAWING E3, INTRUSION ALARM AND MONITORING SYSTEMS. BUILDING ALARM CONTROL PANEL BY-OTHERS.
 11. ROOF MAST CABLING ENTRANCE CONDUIT
 - 11.1. PROVIDE TRUE VERTICAL. NO BENDS. 50mm EMT FROM BASEMENT UP TO 610mm ABOVE FINISHED ROOF. TERMINATE 50mm EMT BASEMENT END WITH PLASTIC GROMMET TO A WALL MOUNTED STEEL ENCLOSURE (254x203x152, NEMA 1 SCREW COVER WALL MOUNT) 150mm FROM FINISHED BASEMENT CEILING.
 - 11.2. PROVIDE ANOTHER ENCLOSURE MOUNTED TO CONCRETE BLOCK WALL IN MAIN FLOOR CEILING RETURN AIR SPACE. CONDUIT SHALL BE LOCATED BEHIND LUNCHROOM DOOR & TIGHT AGAINST WALL TO ALLOW DOOR TO FULLY OPEN 90°. INSULATE CONDUIT 600mm INTERIOR LENGTH FROM UNDERSIDE OF ROOF TO PREVENT CONDENSATION.
 - 11.3. TERMINATE FIRESTOP AT ROOF & FLOOR PENETRATIONS & WEATHERSEAL 50mm EMT END WITH SERVICE ENTRANCE HEAD (IBERVILLE MODEL BCEFSA-2 OR EQUAL). PLUG SERVICE ENTRANCE PHENOLIC INSULATOR HEAD ACCESS HOLES TO PREVENT WATER INFILTRATION. ALSO PROVIDE A PITCH PAN (100mm HIGH MINIMUM) AT ROOF LEVEL TO WEATHERSEAL THE EMT ROOF PENETRATION.

- NOTES:**
1. THESE DRAWINGS SHALL NOT BE SCALED. CONSULT WITH CLIENT AND DESIGNER ON ANY CONCERNS.
 2. DIMENSIONS & UNITS SHOWN IN WHOLE NUMBERS ARE IN MILLIMETRES (mm).
 3. DIMENSIONS & UNITS SHOWN TO DECIMAL PLACES ARE IN METRES (M).
 4. ALSO REFER TO SHEET E1 & ELECTRICAL SPECIFICATIONS.

No.	REVISION/DESCRIPTION	BY	DATE
1	ISSUED FOR ADDENDUM #2. ADDED NOTE 11. FLOOR PLAN WAS	DTA	2017.06.20
0	ISSUED FOR CONSTRUCTION	DTA	2017.03.20

ORIGINAL STAMPED BY: XINYU WU, 30166
DATE: 2017-03-20

DATE	DRAWN	CHECKED	DESIGNED	APPROVED
2017.03.20	DTA	USER	DTA	DTA

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

PROJECT
BRADY ROAD LANDFILL
ADMINISTRATION BUILDING
DEVELOPMENT FOR BRADY LANDFILL
1777 BRADY ROAD

SHEET TITLE
BASEMENT FLOOR PLAN
ELECTRICAL
POWER AND SYSTEMS

SCALE AS SHOWN PROJECT No: 2015-037-02 SHEET No: E3-R1