

ELECTRICAL SPECIFICATION:

1. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE, MANITOBA BUILDING CODE AND LOCAL REGULATIONS.
2. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND BE CSA & ULC APPROVED.
3. OBTAIN ALL PERMITS, APPROVALS AND PAY ALL RELATED FEES REQUIRED FOR INSTALLATION.
4. ARRANGE FOR, AND COORDINATE, ROUGH-IN AND FINAL INSPECTIONS WITH INSPECTION AUTHORITY HAVING JURISDICTION, CONSULTANTS AND LOCAL AUTHORITIES. COORDINATE LOAD ADDITION WITH MANITOBA HYDRO.
5. CONTRACTOR SHALL VISIT SITE BEFORE PRICING AND EXAMINE AREA AND EQUIPMENT TO BE WORKED ON, AND CONFIRM ALL EQUIPMENT LOCATIONS. NO ADDITIONAL COST WILL BE ACCEPTED WHERE NEED FOR ADDITIONAL WORK COULD HAVE BEEN FORESEEN WHILE MAKING SITE VISIT.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING OF WORK SO AS TO MINIMIZE OWNER'S DOWNTIME DUE TO LOSS OF POWER.
 - a. Perform electrical demolition as required.
 - b. Modify existing Distribution equipment as required. New breakers for UV lights and control panels in existing panels to match existing.
 - c. Provide all miscellaneous power connections.
 - d. Provide connections to all mechanical equipment and provide disconnects as required. Coordinate with mechanical contractor and establish exact scope of work required.
 - e. Mount, wire and connect UV control panels (supplied by Division 15.) Provide u-channel support for panels consisting of vertical members anchored at both the floor and the ceiling and complete with adequate horizontal bracing to support the weight of the panel and any associated equipment. Obtain panel weight and dimensions from supplier and coordinate all requirements with him.
 - f. Make all arrangements for and pay all costs for the installation of new electrical equipment.
8. ELECTRICAL DEMOLITION WORK
 - a. DISCONNECT ALL DEVICES (RECEPTACLES, OUTLETS, SWITCHES, ETC.) THAT ARE ASSOCIATED WITH MECHANICAL EQUIPMENT THAT IS AFFECTED BY THIS CONTRACT BUT NO LONGER NEEDED AT THEIR PRESENT LOCATION. DISCUSS AND CONFIRM WHICH DEVICES AND /OR JUNCTION BOXES MUST BE RELOCATED WITH MECHANICAL CONTRACTOR. RELOCATE THESE DEVICES IF THEY ARE NEEDED AT NEW LOCATION AND IN GOOD CONDITION AND REPLACE THEM WITH NEW DEVICES EQUIVALENT TO THE EXISTING IF THEY ARE NOT. WIRE AND CONNECT TO SAME CIRCUIT AS ORIGINAL DEVICES. EXTENDING OR TRIMMING EXISTING CONDUIT AND CONDUCTORS AS REQUIRED.
 - b. PROVIDE PROTECTION FOR EXISTING ELECTRICAL EQUIPMENT THAT IS NOT BEING REMOVED OR RELOCATED.
 - c. PROVIDE TEMPORARY PROTECTION FROM DEMOLITION, CONSTRUCTION AND DUST FOR ALL EXISTING FIRE ALARM DEVICES. WHERE IT IS NECESSARY TO MOVE OR TEMPORARILY DISCONNECT FIRE ALARM DEVICES, RECONNECT AND REVERIFY THEM.
9. WIRING METHODS SHALL BE AS FOLLOWS:
 - a. BUILDING POWER — EMT/RW90 WIRE, COPPER, MIN. #12 AWG C/W WATERTIGHT CONNECTORS. OR TECK 90 COPPER CABLE WITH HLA CONNECTORS MINIMUM SIZE #12 AWG.

10. CUT AND CORE ALL NECESSARY HOLES FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND FIRE STOP ALL OPENINGS WITH AS REQUIRED WITH APPROVED SEALANT.
11. SUPERVISE THE WORK AT ALL TIMES THROUGH A RESPONSIBLE AND COMPETENT SUPERVISOR. FULL COOPERATION SHALL BE SHOWN WITH OTHER TRADES TO FACILITATE INSTALLATIONS AND TO AVOID DELAYS IN CARRYING OUT WORK.
12. KEEP A RECORD SET OF DRAWINGS ON THE SITE AT ALL TIMES RECORDING ANY CHANGES THAT MAY OCCUR. SUBMIT THESE DRAWINGS TO THE CONSULTANT UPON COMPLETION OF THE WORK.
13. PROVIDE THREE(3) BOUND COPIES OF CATALOGUE SHEETS AND MAINTENANCE MATERIALS FOR COMPLETE INSTALLATION. SUBMIT TO CONSULTANT FOR REVIEW AT COMPLETION OF PROJECT.
14. THE ELECTRICAL INSTALLATION SHALL BE COMPLETELY TESTED DEMONSTRATING THAT THE EQUIPMENT AND SYSTEMS INSTALLED PERFORM IN THE MANNER INTENDED.
15. WARRANTY COMPLETE INSTALLATION FOR A PERIOD OF ONE YEAR NOTWITHSTANDING ANY MANUFACTURER'S WARRANTIES.
16. THE ENTIRE INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND LOCAL REGULATIONS.
17. INSTALL EQUIPMENT, CONDUIT AND CABLES IN A WORKMANLIKE MANNER TO PRESENT A NEAT APPEARANCE TO THE SATISFACTION OF THE CONSULTANT. INSTALL CONDUIT AND CABLE RUNS PARALLEL AND PERPENDICULAR TO BUILDING LINES. INSTALL NEATLY AND GROUP TO PRESENT A TIDY APPEARANCE.
18. ALL CONDUIT AND CABLES MUST BE CLIPPED TO STRUCTURE BY MEANS OF ANCHORS OR SUPPORTED BY UNISTRUT HANGERS AS CLOSE TO U/S OF STRUCTURE AS POSSIBLE. TYE WRAPS FOR WIRE HANGING OR FASTENING ARE NOT ACCEPTABLE, UNLESS PRE-AUTHORIZED BY OWNER AND ACCEPTABLE TO C.E.C. PERFORATED STRAPPING IS ALSO UNACCEPTABLE.
19. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE IN COLOR AND COMPLETE WITH STAINLESS STEEL PLATES.
20. PROVIDE WIRING FOR ALL MECHANICAL EQUIPMENT AS INDICATED AND PROVIDE ALL MAGNETIC & MANUAL STARTERS WHERE REQUIRED. PROVIDE WIRING OF ALL CONTROLS AS INDICATED ON MECHANICAL DRAWINGS & SPECIFICATIONS.
21. PROVIDE LAMACOIDES ON EXISTING 600V PANELS THAT ARE BEING USED IN THIS PROJECT INDICATING NEW LOADS, AND PROVIDE UPDATED TYPED PANEL SCHEDULES FOR 120V PANELS THAT ARE BEING USED IN THIS PROJECT.



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ENG SEAL	ARCH SEAL
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PROJECT
CITY OF WINNIPEG
PAN AM POOL UV PIPING

SHEET TITLE
 PAN AM POOL
 UV LIGHT ADDITION
 ELECTRICAL SPECIFICATIONS

DRAWN BY	CHECKED BY	DATE	SHEET NO
		APR 10 2012	E02
DESIGNED BY	CHECKED BY	SCALE	REVISION NO
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