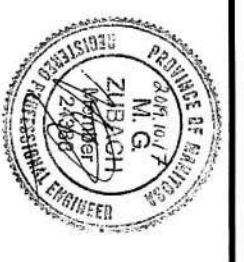


1. GENERAL
 - 1.1 SUPPLY ALL LABOUR, EQUIPMENT, AND MATERIALS NECESSARY TO INSTALL COMPLETE AND OPERATIONAL, THE ELECTRICAL SYSTEMS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS. THE REQUIREMENTS OF THIS SECTION ARE IN ADDITION TO THOSE CONTAINED IN THE GENERAL CONDITIONS AND OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
 - 1.2 REFER TO GENERAL REQUIREMENTS IN THE ARCHITECTURAL SPECIFICATION.
 - 1.3 WHERE THE TERM "PROVIDE" IS USED IT SHALL BE UNDERSTOOD TO INCLUDE LABOUR, MATERIALS AND SERVICES NECESSARY TO SUPPLY AND INSTALL ITEMS OR WORK REFERRED TO.
2. DRAWINGS AND SPECIFICATIONS
 - 2.1 IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE FOR AN ELECTRICAL INSTALLATION COMPLETE AND IN OPERATING CONDITION. THE RESPONSIBILITY FOR SUPPLYING AND INSTALLING ALL MATERIAL NECESSARY TO ACCOMPLISH THIS, EXCEPT WHERE SPECIFICALLY NOTED THAT SUCH WORK OR MATERIALS IS NOT INCLUDED, SHALL BE PART OF THIS SECTION.
3. CODES, PERMITS AND FEES
 - 3.1 THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE (AS AMENDED BY THE AUTHORITY HAVING JURISDICTION), AND THE BYLAWS OF THE CITY OR MUNICIPAL ELECTRICAL ENERGY INSPECTION DEPARTMENT WHOSE AUTHORITY COVERS THE AREA IN WHICH THE WORK IS BEING DONE.
 - 3.2 OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED TO EXECUTE THE WORK.
4. MATERIALS
 - 4.1 ALL MATERIALS SUPPLIED SHALL BE NEW AND OF THE QUALITY INDICATED IN THE SPECIFICATIONS AND SHALL CONFORM TO THE STANDARDS OF THE CSA AND THE ULC AND APPROVED BY THESE AGENCIES WHERE APPLICABLE.
 - 4.2 IN THE EVENT THAT A MATERIAL SPECIFIED DOES NOT BEAR CSA AND ULC APPROVAL, OBTAIN THE APPROVAL OF THE LOCAL INSPECTION AUTHORITY, PAY ALL CHARGES LEVIED BY THE INSPECTION AUTHORITY AND MAKE ANY MODIFICATIONS REQUIRED, AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. EQUIPMENT LOCATIONS
 - 5.1 CONSULT WITH THE OWNER AND ALL OTHER SUBTRADES INVOLVED TO CONFIRM THE LOCATIONS OF THE VARIOUS OUTLETS AND EQUIPMENT AND COOPERATE FULLY TO ENSURE THAT NO CONFLICT ARISES DURING THE INSTALLATION.
 - 5.2 SPECIAL CARE SHALL BE TAKEN THAT EQUIPMENT, OUTLETS, JUNCTION BOXES OR PULLBOXES WILL NOT BE OBSTRUCTED BY OTHER STRUCTURE, EQUIPMENT, PIPES OR DUCTS INSTALLED UNDER THIS GENERAL CONTRACT BY OTHER TRADES.
 - 5.3 NO EXTRA CHARGE FOR MATERIALS AND LABOUR SHALL BE ADDED TO THE CONTRACT FOR OUTLETS MOVED WITHIN 10 FEET FROM THE LOCATION SHOWN ON THE PLANS PRIOR TO ROUGH-IN.
6. SITE EXAMINATION
 - 6.1 EXAMINE THE SITE OF WORK AND BECOME FAMILIAR WITH ALL FEATURES AND CHARACTERISTICS AFFECTING THIS WORK.
 - 6.2 NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR EXTRA WORK DUE TO EXISTING CONDITIONS, WHICH SUCH EXAMINATION SHOULD HAVE DISCLOSED.
 - 6.3 REPORT TO THE ENGINEER ANY UNSATISFACTORY CONDITIONS, WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THIS WORK.
7. SHOP DRAWINGS
 - 7.1. PRIOR TO DELIVERY OF ANY PRODUCTS TO THE JOB SITE AND SUFFICIENTLY IN ADVANCE TO ALLOW AMPLE TIME FOR CHECKING, SUBMIT SHOP DRAWINGS IN PDF FORMAT FOR REVIEW OF REQUIREMENTS AS SPECIFIED IN THIS DIVISION. SHOW DETAILS, DIMENSIONS, CONSTRUCTION, SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS AND CAPACITIES OF PRODUCTS AND PARTS OF THE WORK.
 - 7.3. MANUFACTURE OF PRODUCTS SHALL CONFORM TO REVIEWED SHOP DRAWINGS.
- 7.4. WHERE APPLICABLE INCLUDE WIRING, SINGLE LINE AND SCHEMATIC DIAGRAMS.
- 7.5. INCLUDE WIRING DRAWINGS OR DIAGRAMS SHOWING INTERCONNECTION WITH WORK OF OTHER SECTIONS.
- 7.6. KEEP ONE COMPLETE SET OF SHOP DRAWINGS AT THE JOB SITE DURING CONSTRUCTION.
8. PROJECT RECORD DRAWINGS
 - 8.1. BEFORE COMMENCING WORK, OBTAIN TWO SETS OF WHITE PRINTS OF ALL DRAWINGS PERTINENT TO THE WORK. KEEP DRAWINGS ON SITE AND, DAILY OR WEEKLY AS NECESSARY, RECORD IN COLORED PENCIL ALL CHANGES, ALTERATIONS, OR ADDITIONS IN RUNS OF CONDUIT, NUMBERS AND LOCATION OF PANELS, LUMINAIRES AND DEVICES THAT MAY OCCUR DURING PROGRESS OF THE WORK.
9. MAINTENANCE MANUALS
 - 9.1. BEFORE REQUESTING FINAL CERTIFICATE, SUBMIT PDF FORMAT COPIES OF THE MAINTENANCE MANUAL AS SPECIFIED IN DIVISION 1 AND AS FURTHER CALLED FOR IN THIS DIVISION.
 - 9.2. INCLUDE IN THE MANUALS INFORMATION BASED ON THE FOLLOWING REQUIREMENTS:
 - 9.2.1. OPERATION AND MAINTENANCE INSTRUCTIONS TO BE SUFFICIENTLY DETAILED WITH RESPECT TO DESIGN ELEMENTS, CONSTRUCTION FEATURES AND COMPONENT FUNCTION AND MAINTENANCE REQUIREMENTS TO PERMIT EFFECTIVE OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OR FEATURE OF THE INSTALLATION.
 - 9.2.2. TECHNICAL DATA TO BE IN FORM OF APPROVED SHOP DRAWINGS, SUPPLEMENTED BY BULLETINS, TECHNICAL DESCRIPTIONS OF ITEMS, AND PARTS LISTS. ADVERTISING OF SALES LITERATURE WILL NOT BE ACCEPTABLE.
 - 9.2.3. PROVIDE WIRING AND SCHEMATIC DIAGRAMS AND PERFORMANCE CURVES WHERE NECESSARY.
 - 9.2.4. INCLUDE NAMES AND ADDRESSES OF NEAREST SUPPLIER FOR ALL ITEMS INCLUDED IN THE MAINTENANCE MANUALS.
 - 9.2.5. PROVIDE MANUAL AND SEMINAR WITH OWNER'S FORCES TO ENSURE PROPER OPERATION OF BUILDING PRIOR TO SUBSTANTIAL PERFORMANCE.
10. DISTRIBUTION
 - 10.1. ALL ELECTRICAL DISTRIBUTION EQUIPMENT PANELBOARDS SHALL BE CUSTOM MADE BY ONE MANUFACTURER OF SIZE AND TYPE AS INDICATED ON ELECTRICAL DRAWINGS. ALL DISTRIBUTION EQUIPMENT TO BE SPRINKLER PROOF, C/W LOCKABLE DOORS AND LAMACOID NAMEPLATES.
 - 10.2. ALL ELECTRICAL PANELBOARDS TO BE C/W TYPE WRITTEN PANEL DIRECTORY MOUNTED IN A PLASTIC SLEEVE ON INSIDE OF LOCKABLE PANEL DOOR.
 - 10.3. CIRCUIT BREAKERS TO BE BOLT-IN, MOULDED CASE, THERMAL AND MAGNETIC TRIP. AMPERAGE RATING AS INDICATED ON ELECTRICAL DRAWINGS. FAULT CURRENT RATING TO BE 22KA UNLESS COMPLETE DISTRIBUTION SERIES RATED AS PER MANUFACTURER OF EQUIPMENT.
11. GROUNDING
 - 11.1. PROVIDE BONDING TO ALL METAL EQUIPMENT, METALLIC WASTE WATER SYSTEM, GAS PIPING AND BUILDING STRUCTURE AS REQUIRED BY CODE.
12. DISCONNECT SWITCHES
 - 12.1. SUPPLY AND INSTALL DISCONNECT SWITCHES AS INDICATED AND AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE EQUAL TO EATON TYPE DH1, OR TYPE DH3(WEATHERPROOF) WHERE NOTED. BRYANT 30000/40000/60000 SERIES MOTOR STARTERS WITHOUT OVERLOAD PROTECTION MAY BE USED FOR LOADS RATED 30/40/60A OR LESS.
13. MOTOR STARTERS



Smith + Andersen
 2021 Pacific Avenue 2nd Floor, Washoe Meadows Rd. Reno
 NV 89509
 www.smithandandersen.com

REV	DESCRIPTION	DATE	BY
5	RE-ISSUED FOR CONSTRUCTION	2019.10.17	
4	ISSUED FOR CONSTRUCTION	2019.10.11	
3	ISSUED FOR 90% REVIEW	2019.09.13	
2	ISSUED FOR REVIEW	2019.09.05	
1	ISSUED FOR REVIEW	2019.09.05	MZ

APRGM
 Certificate of Authorization
 SMITH + ANDERSEN
 No. 5990

THIS DOCUMENT IS NOT TO SCALE.
 THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DISTANCES AND LEVELS PRIOR TO COMMENCEMENT OF WORK AND IS HELD RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON.
 THE DRAWING IS THE SOLE PROPERTY OF THE GENERAL CONTRACTOR AND SHALL BE RETURNED TO THE ARCHITECT ONLY UPON THE COMPLETION OF THE PROJECT.
 PROJECT:
 Interior Reno - Washroom
 KILDONAN PARK CLUBHOUSE
 2015 Main Street, WPG, MB

Neil Cooper Architect
 106-574 River Avenue, Winnipeg, Manitoba R2L 0R9

TENDER 1123-2019

DATE: JAN 29, 2019

SCALE: NTS

E5.0

REV: H:\2019\1123\Tender-E5.0 ELECTRICAL SPECIFICATIONS.dwg