

ELECTRICAL SPECIFICATION

ELECTRICAL GENERAL PROVISIONS

- GENERAL
 - PROVIDE ALL MATERIALS, LABOUR, PLANT AND EQUIPMENT NECESSARY TO MAKE A COMPLETE INSTALLATION AS DESCRIBED AND SHOWN. THIS INSTALLATION SHALL BE LEFT COMPLETE AND READY FOR OPERATION.
 - THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE CONTRACT ADMINISTRATOR. REPLACEMENT AT NO ADDITIONAL COST ANY WORK OR MATERIAL WHICH MAY FAIL OR PROVE DEFECTIVE DURING THE GUARANTEE PERIOD.
 - THE INSTALLATION SHALL CONFORM IN EVERY RESPECT TO THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND ALL LOCAL CODES. ALL WORK SHALL BE UNIFORM AND HIGH QUALITY. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND BUILT IN ACCORDANCE WITH NEMA, ANSI IEEE STANDARDS. SHALL BE CSA CERTIFIED OR CERTIFIED BY AN EQUIVALENT RECOGNIZED CERTIFYING AGENCY TO MEET CANADIAN STANDARDS AND LOCALLY APPROVED. ELECTRICAL EQUIPMENT CONSISTING OF INDIVIDUAL CERTIFIED COMPONENTS MUST ALSO HAVE A CSA OR EQUIVALENT CERTIFICATION FOR THE ENTIRE ASSEMBLY. PROVIDE INSPECTION CERTIFICATE UPON COMPLETION OF THE WORK.
 - CAREFULLY EXAMINE ALL PLANS AND SPECIFICATIONS PERTAINING TO THIS CONTRACT AND VISIT SITE TO DETERMINE ALL FACTORS AFFECTING COSTS AND INCLUDE SAME IN TENDER. NOTIFY CONTRACT ADMINISTRATOR OF DISCREPANCIES OR CONFLICTS WITH ANY REGULATION BEFORE SUBMITTING PRICE. FURNISH SUCH NOTIFICATION. THIS CONTRACTOR SHALL MEET ALL SUCH REQUIREMENTS WITHOUT EXTRA COST TO THE CITY.
 - OBTAIN ALL NECESSARY PERMITS. PAY ALL NECESSARY FEES. GIVE ALL NECESSARY NOTICES AND OBTAIN APPROVAL OF THE ELECTRICAL AUTHORITIES HAVING JURISDICTION.
- SHOP DRAWINGS
 - SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT.
 - FOR SHOP DRAWINGS SUBMITTED ELECTRONICALLY INCLUDE PROJECT NAME IN SUBJECT LINE OF E-MAIL TO CONTRACTADMIN@SMS.ENG.COM.
 - EQUIPMENT PROPOSED SHALL MEET THE SAME STANDARDS OF PERFORMANCE, QUALITY AND WORKMANSHIP AS THAT SPECIFIED.
 - SHOP DRAWINGS TO BE REVIEWED AND STAMPED BY THE TRADE AND GENERAL CONTRACTOR.
 - ALLOW 10 BUSINESS DAYS FOR THE REVIEW AND PROCESSING OF SHOP DRAWINGS.
- REQUEST FOR INTERPRETATION (RFI)
 - FOR RFIs SUBMITTED ELECTRONICALLY, INCLUDE PROJECT NAME AND RFI NUMBER IN SUBJECT LINE OF E-MAIL. SEND RFIs TO CONTRACTADMIN@SMS.ENG.COM.
 - CONTENT OF THE RFI INCLUDE A DETAILED DESCRIPTION OF THE ITEM NEEDING INTERPRETATION AND PROPOSED SOLUTION.
 - ALLOW 10 BUSINESS DAYS FOR THE REVIEW AND PROCESSING OF RFIs.
- RECORD DRAWINGS
 - PROVIDE "AS-BUILT" DRAWINGS IN PDF AND AUTOCAD FORMAT BURNT ON CD-ROM.
- OPERATION AND MAINTENANCE MANUALS
 - PROVIDE DATA FOR INCORPORATION INTO MAINTENANCE MANUAL. MANUAL SHALL INCLUDE INSTRUCTIONS FOR ALL EQUIPMENT SUPPLIED. COPY OF REVIEWED SHOP DRAWINGS AND TECHNICAL DATA SUCH AS PARTS LISTS, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, ETC. THREE (3) HARD COVER COPIES OF MAINTENANCE MANUALS ARE TO BE SUBMITTED.
- REMOVALS
 - REMOVE ALL UNNECESSARY EXISTING ELECTRICAL EQUIPMENT, WIRING AND FIXTURES IN THOSE PORTIONS OF THE EXISTING BUILDING WHICH ARE BEING REMODELED OR DEMOLISHED. THE EQUIPMENT MAY BE REUSED ON THIS PROJECT IF, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, SUCH EQUIPMENT IS IN SATISFACTORY CONDITION AND MEETS THE STANDARDS ESTABLISHED. THE CITY MAY SELECT FROM THE MATERIALS AND/OR EQUIPMENT REMAINING WHICH HE WISHES TO RETAIN AND THE REMAINDER SHALL BE REMOVED FROM THE SITE.
 - ANY ELECTRICAL EQUIPMENT IN REMODELED SECTIONS OR IN STRUCTURES REMOVED OR ALTERED, ADJACENT TO NEW WORK, NECESSARY FOR THE OPERATION OF THE EXISTING BUILDING, SHALL BE RELOCATED AS NECESSARY.
 - ALL EXISTING EQUIPMENT REUSED SHALL BE MADE GOOD AND GUARANTEED.
 - POWER INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE A TIME SUITABLE TO THE BUILDING OCCUPANTS.
- WORK IN EXISTING BUILDINGS
 - COORDINATION
 - THE BUILDING SHALL REMAIN OPEN AND IN NORMAL OPERATION DURING THE CONSTRUCTION PERIOD.
 - WHERE EXISTING SERVICES SUCH AS ELECTRICAL POWER, FIRE ALARM SYSTEM, SOUND SYSTEM, ETC. ARE REQUIRED TO BE DISRUPTED AND/OR SHUT DOWN COORDINATE THE SHUTDOWNS WITH THE CITY AND CARRY OUT THE WORK AT A TIME AND IN A MANNER ACCEPTABLE TO THEM. CAREFULLY SCHEDULE ALL DISRUPTION AND/OR SHUT-DOWNS AND ENSURE THAT THE DURATION OF SAME IS KEPT TO THE ABSOLUTE MINIMUM. SUBMIT FOR APPROVAL A WRITTEN, CONCISE SCHEDULE OF EACH DISRUPTION AT LEAST 120 HOURS IN ADVANCE OF THE WORK TO BE IMPLEMENTED. OBTAIN WRITTEN CONSENT FROM THE CITY PRIOR TO IMPLEMENTING.
 - SHOULD ANY TEMPORARY CONNECTIONS BE REQUIRED TO MAINTAIN SERVICES DURING WORK IN THE EXISTING BUILDING, SUPPLY AND INSTALL ALL NECESSARY MATERIAL AND EQUIPMENT AND PROVIDE ALL LABOUR AT NO EXTRA COST. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIRS WITHOUT EXTRA COST AND TO THE SATISFACTION OF THE CITY AND CONTRACT ADMINISTRATOR.
 - IF EXISTING EQUIPMENT SHOWN ON DRAWINGS IS DEFECTIVE IT SHOULD BE BROUGHT TO THE CONTRACT ADMINISTRATOR AND THE CITY'S ATTENTION PRIOR TO WORK COMPLETION.
 - INSTALLATION
 - INSTALL BOXES, CONDUIT AND WIRING THROUGH EXISTING AREAS AS REQUIRED FOR THE NEW INSTALLATION.
 - ADD MODULES, SWITCHES, ETC. IN EXISTING CONTROL PANELS, AS REQUIRED, TO EXTEND EXISTING SYSTEMS TO NEW OR RENOVATED AREAS.
 - PATCH AND REPAIR WALLS AND CEILINGS IN EXISTING AREAS THAT HAVE BEEN DAMAGED OR CUT OPEN DUE TO THE NEW ELECTRICAL INSTALLATION.
 - WHERE NEW CABLES OR CONDUITS HAVE BEEN INSTALLED THROUGH EXISTING FIRE RATED WALLS, SEAL OPENING AROUND CABLES AND CONDUIT TO MAINTAIN FIRE RATING.
 - ALL EXISTING EQUIPMENT REUSED SHALL BE MADE GOOD AND GUARANTEED.
 - POWER INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE A TIME SUITABLE TO THE BUILDING OCCUPANTS.

ELECTRICAL MATERIALS AND INSTALLATION

- WIRING METHOD
 - FOR GENERAL PURPOSE WIRING: RW90 CONDUCTORS IN EMT CONDUIT. USE AC90 FOR FIXTURE DROPS (MAX 3 METERS LONG) AND IN METAL STUD WALLS.
 - FOR OUTDOOR WIRING USE TECK TYPE CONDUCTORS. PVC CONDUIT AND RW90 CONDUCTORS MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS.
 - FOR CONNECTION TO MOTORS AND MISCELLANEOUS MECHANICAL EQUIPMENT USE RAIN TIGHT FLEXIBLE CONDUIT.
 - RUN ALL CONDUIT AND CABLE CONCEALED, PARALLEL AND PERPENDICULAR TO BUILDING LINES. STAPLED AND/OR CLIPPED IN A NEAT WORKMANLIKE MANNER.
 - ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG EXCEPT AS NOTED.
- GROUNDING AND BONDING
 - THE ENTIRE INSTALLATION SHALL BE GROUNDED/BONDED IN CONFORMANCE TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE.
 - ALL CONDUIT TO HAVE A SEPARATE INSULATED BONDING CONDUCTOR.
- BOXES
 - OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED STEEL AND SIZED ACCORDING TO THE ELECTRICAL CODE AND TO SUIT EACH APPLICATION.
 - PROVIDE MOULDED BOX VAPOUR BARRIER. FACTORY MOULDED POLYETHYLENE BOX FOR USE WITH RECESSED ELECTRIC BOXES IN EXTERIOR WALLS.
 - OUTLET BOXES SHOWN ON DRAWINGS AS BEING "BACK-TO-BACK" SHALL HAVE A MINIMUM OFFSET OF 20MM BETWEEN BOXES TO REDUCE SOUND TRANSMISSION.
 - OUTLET BOX EXTENDERS SHALL NOT BE USED.
 - OUTLET BOXES WITH MATCHING EXTENSION RING, ADJUSTABLE DEPTH RING AND PLASTER RINGS AS REQUIRED.
 - WHERE STANDARD SIZE RAISED DEVICE RINGS CANT PROVIDE THE REQUIRED CLEARANCE, ADJUSTABLE DEPTH RINGS SHALL PROVIDED.

- WIRING DEVICES
 - PROVIDE WIRING DEVICES FOR ALL OUTLETS AS REQUIRED AND INDICATED. COLOUR AND MOUNTING TO MATCH EXISTING.
 - STANDARD OF ACCEPTANCE FOR DEVICES SHALL BE AS FOLLOWS:
 - SINGLE POLE, 2-POLE, 3-WAY AND 4-WAY WALL MOUNTED, TOGGLE OPERATED, GENERAL PURPOSE SWITCHES 15A AND 20A.

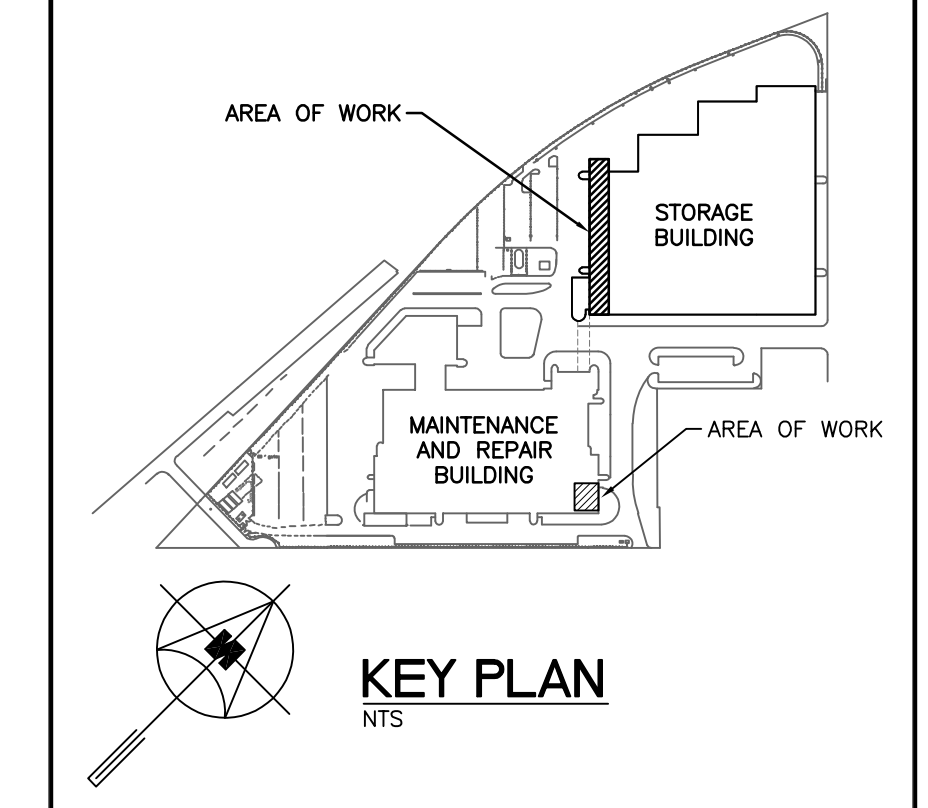
SPECIFICATION GRADE	120VOLT	240VOLT
1 MANUFACTURER	CSB115 SERIES	CSB120 SERIES
2 HUBBELL	1200 SERIES	18200 SERIES
3 LEVITON	CS31 SERIES	18200 SERIES
4 PASS & SEYMOUR	PS3XAC SERIES	PS347 SERIES
 - SWITCHES IN CIRCUITS PROTECTED BY 20A BREAKER TO BE RATED FOR 20A.
 - NEMA 5-15R 15A 125VAC RECEPTACLES SHALL BE U-GROUND PARALLEL SLOT SIDE.

SPECIFICATION GRADE	5282 SERIES (15A) AND 5302 SERIES (20A)
1 Eaton/COOPER:	BR15, DR15, CR15 (15A) AND BR20, DR20, CR20 (20A)
2 HUBBELL:	BR15 SERIES (15A) AND BR20 (20A)
3 LEVITON:	5282 SERIES (15A) AND 5302 SERIES (20A)
4 PASS & SEYMOUR:	5282 SERIES (15A) AND 5302 SERIES (20A)
 - COVERPLATES FOR DEVICES SHALL BE STAINLESS STEEL.
 - WHERE RECEPTACLES ARE INSTALLED FACING DOWNWARD, AT AN ANGLE OF 45° OR LESS FROM HORIZONTAL, STANDARD COVER PLATES MAY BE USED.
 - WEATHERPROOF COVER FOR SWITCH WITH GASKETS AS INDICATED.
 - RECEPTACLES THAT ARE TO CHANGE LOCATIONS AT NO EXTRA COST OR CREDIT, PROVIDED DISTANCE DOES NOT EXCEED 3000mm, AND INFORMATION IS GIVEN BEFORE INSTALLATION.
 - POWER DISTRIBUTION SYSTEM
 - PROVIDE BREAKERS AS INDICATED IN THE PANEL SCHEDULE AND AS INDICATED ON THE DRAWING.
 - ALL NEW BREAKERS SHALL MATCH PANEL VOLTAGE UNLESS INDICATED OTHERWISE. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC TYPE.
 - INTERRUPTING CAPACITY OF NEW BREAKERS IN EXISTING PANELS SHALL MATCH EXISTING.
 - MECHANICAL EQUIPMENT CONNECTIONS
 - REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF MOTOR CONTROL DEVICES, AND OTHER MECHANICAL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION. OBTAIN FULL INFORMATION FROM MECHANICAL CONTRACTOR REGARDING WIRING CONTROLS, OVERLOAD HEATERS, EQUIPMENT RATINGS AND OVERCURRENT PROTECTION. NOTIFY THE MECHANICAL CONTRACTOR AT ONCE, IF ANY INFORMATION PROVIDED IS INCORRECT OR UNSATISFACTORY.
 - COORDINATE CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PROVIDE ALL CONTROL WIRING AND CONNECTIONS AS REQUIRED TO MAKE THE CONTROL SYSTEMS OPERATE AS SPECIFIED.
 - CONDUITS AND CABLE
 - DRAWINGS DO NOT INDICATE ALL CONDUIT AND CABLE RUNS. THOSE INDICATED ARE IN DIAGRAMMATIC FORM ONLY.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS INDICATED OTHERWISE.
 - ALL CONDUITS SHALL HAVE A SEPARATE INSULATED GREEN GROUND CONDUCTOR.
 - WIRING IDENTIFICATION
 - IDENTIFY WIRING WITH PERMANENT INDELIBLE IDENTIFYING MARKINGS ON BOTH ENDS OF PHASE CONDUCTORS OF FEEDERS (COLOURED PLASTIC TAPES) AND BRANCH CIRCUIT WIRING (NUMBERED WIRE MARKERS). CONDUCTOR MARKER IDENTIFICATION SHALL CORRESPOND WITH PANEL OR TERMINAL BOARD DIRECTORY INFORMATION.
 - MAINTAIN PHASE SEQUENCE AND COLOUR CODING THROUGHOUT.
 - COLOUR CODING TO CSA C22.1.
 - INSULATED GROUNDING CONDUCTORS SHALL HAVE A GREEN FINISH AND SHALL BE USED ONLY AS A GROUNDING CONDUCTOR.
 - CONDUIT AND CABLE IDENTIFICATION
 - CONFIRM IDENTIFICATION METHOD WITH THE CITY AND CONTRACT ADMINISTRATOR PRIOR TO START OF WORK.
 - IDENTIFY CONDUIT AND CABLES AS FOLLOWS:
 - AT ENTRY TO AND EXIT FROM EQUIPMENT, WITHIN 300mm FROM EQUIPMENT, INCLUDING PULL BOXES AND JUNCTION BOXES.
 - AT PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AT EACH SIDE, WITHIN 300mm FROM PENETRATION.
 - AT EVERY 10M ALONG RUN.
 - LABEL INDOOR AND OUTDOOR INSTALLATION.
 - PROVIDE SELF ADHESIVE VINYL LABELS, UV RESISTANT, WITH THE FOLLOWING WORDING AS APPLICABLE:
 - FOR NORMAL POWER: "NORMAL POWER, 120/208V", OR WITH AN APPROPRIATE VOLTAGE.
 - LABEL SIZES PER THE FOLLOWING TABLE:

CONDUIT/CABLE DIAMETER	MINIMUM LENGTH LABEL	MINIMUM LETTER HEIGHT
INCHES	INCHES	INCHES
0.75 - 1.25	19 - 32	4
1.5 - 2	38 - 51	4
2.5 - 4	64 - 152	6
 - PROVIDE LARGER LABEL TO SUIT WORDING AS REQUIRED.
 - BLACK LETTERS ON ORANGE BACKGROUND. WORDING SHALL BE UPPERCASE.
 - LABELS INSTALLED OUTDOORS SHALL BE RATED FOR OUTDOOR APPLICATIONS.
 - LABELS SHALL BE MANUFACTURED IN ACCORDANCE TO ANSI Z39.4 PRODUCT SAFETY SIGNS AND LABELS.
 - APPROVED MANUFACTURERS:
 - GTS SIGN DESIGN
 - ACCENT STRIPPING AND LETTERING COMPANY
 - BRANCH CIRCUIT JUNCTION BOX IDENTIFICATION
 - SHOW CIRCUIT NUMBERS IN BLACK FELT MARKER ON INSIDE OF COVERS.
- CONDUITS, FASTENINGS AND FITTINGS
 - ONE HOLE STEEL STRAPS TO SECURE SURFACE CONDUITS 50MM AND SMALLER.
 - FITTINGS FOR RACEWAYS: TO CSA C22.2 NO. 19
 - FITTINGS MANUFACTURED FOR USE WITH CONDUIT SPECIFIED COATING SAME AS CONDUIT.
 - FACTORY 'ELLS' WHERE 90° BENDS ARE REQUIRED FOR 25MM AND LARGER CONDUITS.
 - STEEL SET SCREW CONNECTORS AND COUPLINGS, INSULATED THROAT LINERS ON CONNECTORS.
- DISCONNECT SWITCHES
 - HEAVY DUTY, FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCH IN METAL ENCLOSURE, CSA RATED.
 - PROVISION FOR PADLOCKING "ON-OFF" SWITCH POSITION BY THREE LOCKS.
 - MECHANICAL INTERLOCKED DOOR TO PREVENT OPENING WHEN HANDLE IS IN "ON" POSITION. QUICK-MAKE, QUICK-BREAK ACTION.
 - "ON-OFF" SWITCH POSITION INDICATION ON SWITCH ENCLOSURE COVER.
 - DISCONNECTS USED FOR SERVICE ENTRANCES SHALL BE APPROVED SERVICE ENTRANCE SWITCHES.
 - DISCONNECTS FOR TWO SPEED MOTORS TO BE SIX POLE. REFER TO MOTOR SCHEDULE AND DRAWINGS FOR TWO SPEED MOTORS AND PROVIDE A SIX-POLE DISCONNECT SWITCH FOR EACH TWO SPEED MOTOR.
 - INSTALL DISCONNECT SWITCHES AS INDICATED ON DRAWINGS.
 - WEATHERPROOF WHERE REQUIRED, MINIMUM NEMA RATING.
- FULL VOLTAGE MAGNETIC STARTERS
 - MAGNETIC OF SIZE, TYPE, RATING AND ENCLOSURE TYPE AS INDICATED WITH COMPONENTS AS FOLLOWS:
 - CONTACTOR SOLENOID OPERATED, RAPID ACTION TYPE.
 - MOTOR OVERLOAD PROTECTIVE DEVICE IN EACH PHASE, MANUALLY RESET FROM OUTSIDE ENCLOSURE.
 - POWER AND CONTROL TERMINALS.
 - WIRING AND SCHEMATIC DIAGRAM INSIDE STARTER ENCLOSURE IN VISIBLE LOCATION.
 - IDENTIFY EACH WIRE AND TERMINAL FOR EXTERNAL CONNECTIONS, WITHIN STARTER, WITH PERMANENT NUMBER MARKING IDENTICAL TO DIAGRAM.
 - CONTROL TRANSFORMER.
 - ACCESSORIES
 - PUSHBUTTONS AND SELECTOR SWITCHES: LABELED AS INDICATED.
 - INDICATING LIGHTS: TYPE AND COLOR AS INDICATED.
 - SINGLE PHASE, DRY TYPE, CONTROL TRANSFORMER WITH PRIMARY VOLTAGE AS INDICATED AND 120V SECONDARY, COMPLETE WITH SECONDARY FUSE, INSTALLED IN

- WITH STARTER AS INDICATED.
- SIZE CONTROL TRANSFORMER FOR CONTROL CIRCUIT LOAD PLUS 20% SPARE CAPACITY.
- ACCEPTABLE MANUFACTURERS: ALLEN BRADLEY CANADA LTD, "SYSTEM 80" SIEMENS ELECTRIC LIMITED SOJANE E.

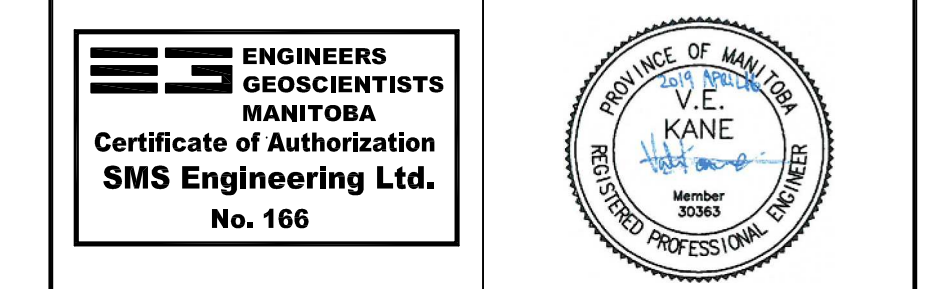
- EQUIPMENT IDENTIFICATION
 - IDENTIFY ELECTRICAL EQUIPMENT WITH NAMEPLATES AND LABELS AS FOLLOWS:
 - NAMEPLATES: LAMACOID 3MM THICK PLASTIC ENGRAVING SHEET, BLACK FACE WITH WHITE CORE (BLACK WITH WHITE LETTERS) FOR NORMAL POWER AND LAMACOID 3MM THICK PLASTIC ENGRAVING SHEET, RED FACE WITH WHITE CORE (RED WITH WHITE LETTERS) FOR EMERGENCY POWER. LETTERING ACCURATELY ALIGNED AND ENGRAVED INTO CORE MECHANICALLY ATTACHED WITH SELF TAPPING SCREWS. LETTERS TO BE MINIMUM 5MM HIGH.
 - WORKING ON NAMEPLATES AND LABELS TO BE APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO MANUFACTURE.
 - ALLOW FOR MINIMUM OF TWENTY-FIVE (25) LETTERS PER NAMEPLATE AND LABEL.
 - NAMEPLATES FOR TERMINAL CABINETS, STARTERS AND CONTACTORS: INDICATE EQUIPMENT BEING CONTROLLED AND VOLTAGE.



MOTOR SCHEDULE

MOTOR No.	NAME	LOCATION	HP. (KW)	VOLTS	STARTER & ACC.				CIRCUIT	STARTER LOCATION	FEEDER	TIME DELAY RELAY	FIRE ALARM SHUTDOWN	REMARKS
					MAN	MAG	PL	HQA						
RRD-1	RAPID ROLL UP DOOR	NORTH SIDE	3.0	600V 3Ø	✓	✓			PP-KK	N/A	3#12	N/A	N/A	PACKAGED CONTROLS
RRD-2	RAPID ROLL UP DOOR	NORTH SIDE	3.0	600V 3Ø	✓	✓			PP-KK	N/A	3#12	N/A	N/A	PACKAGED CONTROLS
RRD-3	RAPID ROLL UP DOOR	SOUTH SIDE	3.0	600V 3Ø	✓	✓			PP-DD	N/A	3#12	N/A	N/A	PACKAGED CONTROLS
RRD-4	RAPID ROLL UP DOOR	SOUTH SIDE	3.0	600V 3Ø	✓	✓			PP-DD	N/A	3#12	N/A	N/A	PACKAGED CONTROLS
RRD-5	RAPID ROLL UP DOOR	MAINT. & REPAIR BUILDING	3.0	600V 3Ø	✓	✓			PP-JJ	N/A	3#12	N/A	N/A	PACKAGED CONTROLS

NOTE: PROVIDE 600V FEED TO DOOR CONTROL PANEL.
ALL ACCESSORY DEVICES (LIGHTS, SENSORS, ETC.) TO BE FED FROM CONTROL PANEL.



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Winnipeg Transit

Project Title
CITY OF WINNIPEG FORT ROUGE
TRANSIT BASE - RAPID ROLL DOORS
AND RADIANT HEATERS REPLACEMENT

WINNIPEG MANITOBA

Drawing Title
ELECTRICAL SPECIFICATION
AND MOTOR SCHEDULE

Drawn By RD	Checked By RD	Approved By VEK
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