## **ELECTRICAL SPECIFICATION**

Electrical installation shall be in accordance with the current edition of The Canadian Electrical Code, Provincial, Municipal and other codes, rules and regulations.

The Contract shall include the furnishing of labor, new material, equipment and services necessary and reasonably implied and/or incidental to the complete installation of the electrical Work as shown on the plans and or specified. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the

Prepare and submit to the proper authorities all necessary permits and pay all fees. Upon completion and before final payment is made, present to Contract Administrator a Certificate of Approval for all electrical Work from the inspection

Electrical installation including electrical equipment supplied, installed or connected shall be tested in the presence of the Contract Administrator on completion of the Work.

The Contractor shall visit the site and ascertain that all Work indicated can be carried out without additional cost to the Contract Administrator.

The Contractor shall guarantee the satisfactory operation of all Work and apparatus included and installed under this section of the specification for a period of twelve (12) calendar months after the final acceptance of the complete building.

The Contractor shall be responsible for any damage caused the Contract Administrator or their Subcontractors by improperly carrying out this Contract.

The Contractor shall carefully examine all drawings and specifications relating to the Work to be certain that the Work under this Contract can be satisfactorily carried out and prior to the submission of his Bid, report at once to the Contract Administrator any defect, discrepancy, omission or interference affecting the Work of this section or the

Submit one set of corrected "as-built" sepias and one electronic copy 100% AutoCAD 2010 compatible to the Contract Administrator.

Grounding shall be in accordance with the latest edition of The Canadian Electrical

Panelboards, motor starters, disconnect switches, etc., shall be properly identified by means of engraved lamacoid nameplates.

Supply and install all motor controls unless noted otherwise on the drawings. Refer to Mechanical drawings for exact location of motors and mechanical equipment. Unless otherwise specified and/or shown on the drawings, supply and install the following motor control equipment:

Manual motor starters. Magnetic motor starters which are not part of package equipment (refer to Mechanical

drawings and specs). Pushbutton stations.

department having jurisdiction.

Hand-off-auto selector switches. Motor disconnect switches.

Interlock contacts as required for starters.

Enclosures. Starter heater elements as required for starters.

Time clocks, time switches and photoelectric relays. Pilot lights for all starters, switches and pushbutton stations.

Conduits shall be electric metallic tubing unless otherwise noted on drawings or unless prohibited by regulations. Conduits in direct contact with earth or in concrete shall be rigid PVC. Conduits shall be concealed unless otherwise noted on the drawings. Conduits shall not be exposed in any area where concealed Work is required without prior written approval.

Wherever surface mounted conduit is required, confirm wiremold with Contract Administrator.

Outlet, junction and switch boxes shall be galvanized pressed steel of size and type to suit the requirements of each outlet. Outlet boxes shall be accessible.

All wiring shall be in conduit, except that armoured cable may be used in stud partitions and for drops to recessed luminaires (max. 4 luminaires per drop).

Wire and cable shall be copper of standard AWG sizes with 600V (90 Degree C) insulation. Insulation shall be X-Link Polyethylene unless otherwise noted on drawings or prohibited by regulations. Aluminum conductors will not be accepted. Minimum wire size

Panelboards shall be factory-assembled custom made of size, type and arrangement as shown on drawing. Circuit breakers shall be bolt-in, moulded-case, thermal and pole breakers shall have common trip units. Mount a typewritten directory behind a plastic shield on the inside of panelboard doors. All distribution equipment to be

Wall-mounted flush switches shall be specification grade 15A,125VAC. White handle, side or back wiring. Mount switches 1200mm above finished floor unless otherwise noted on the drawings.

Duplex receptacles shall be specification grade 15A,125VAC, parallel slot, U—ground, white, side and back wiring. Mount receptacles 305mm above finished floor or 150mm above counter tops unless otherwise noted on the drawings.

sprinkler-proof. Minimum fault rating of circuit breakers shall be 22KA S.C.I.C.

Cover plates for flush-mounted receptacles and switches on concealed conduit system shall be stainless steel.

Telephone raceway system shall be in separate and independent conduit system. Empty conduits shall be complete with a #12 AWG pull wire. Install as shown on drawings. Complete entire installation to local telephone utility requirements and satisfaction.

Mount surface—mounted equipment such as panelboards, telephone cabinets and other electrical equipment on plywood mounting boards, c/w gray enamel finish.

Any cutting and patching in existing walls or floors required for the addition or relocation of electrical equipment shall be the responsibility of the Contractor.

Existing Work:

The Contractor shall take into account items which he is responsible for due to the changes and alterations to the existing building and allow for such items that may occur The Contractor is to notify the supply utility of all load increases to existing service.

Provide code conforming emergency lighting and exit system. Min. wire size for this system as per manufacturers recommendations.

Provide code conforming fire alarm system extension. Provide a fire alarm verification

inspection for all devices added/modified. The Contractor shall relocate outlets at no additional charge if requested prior to Contractor shall relocate outlets at no additional charge if

requested by the local authority having jurisdiction. Electrical installation shall be installed in conformance with the barrier free requirements applicable in the Building Code.

Where luminaires are recessed into insulated ceilings, the Contractor is responsible for providing luminaires suitable for that use.

Supply and install all indicated electric heaters, standard watt density to be Chromalox, Ouellet or approved equal in accordance with B6. Thermostats to be

calibrated in degrees Celsius. Equipment and material shall be installed as specified. Requests for equal status shall be submitted to Contract Administrator in accordance with B6.

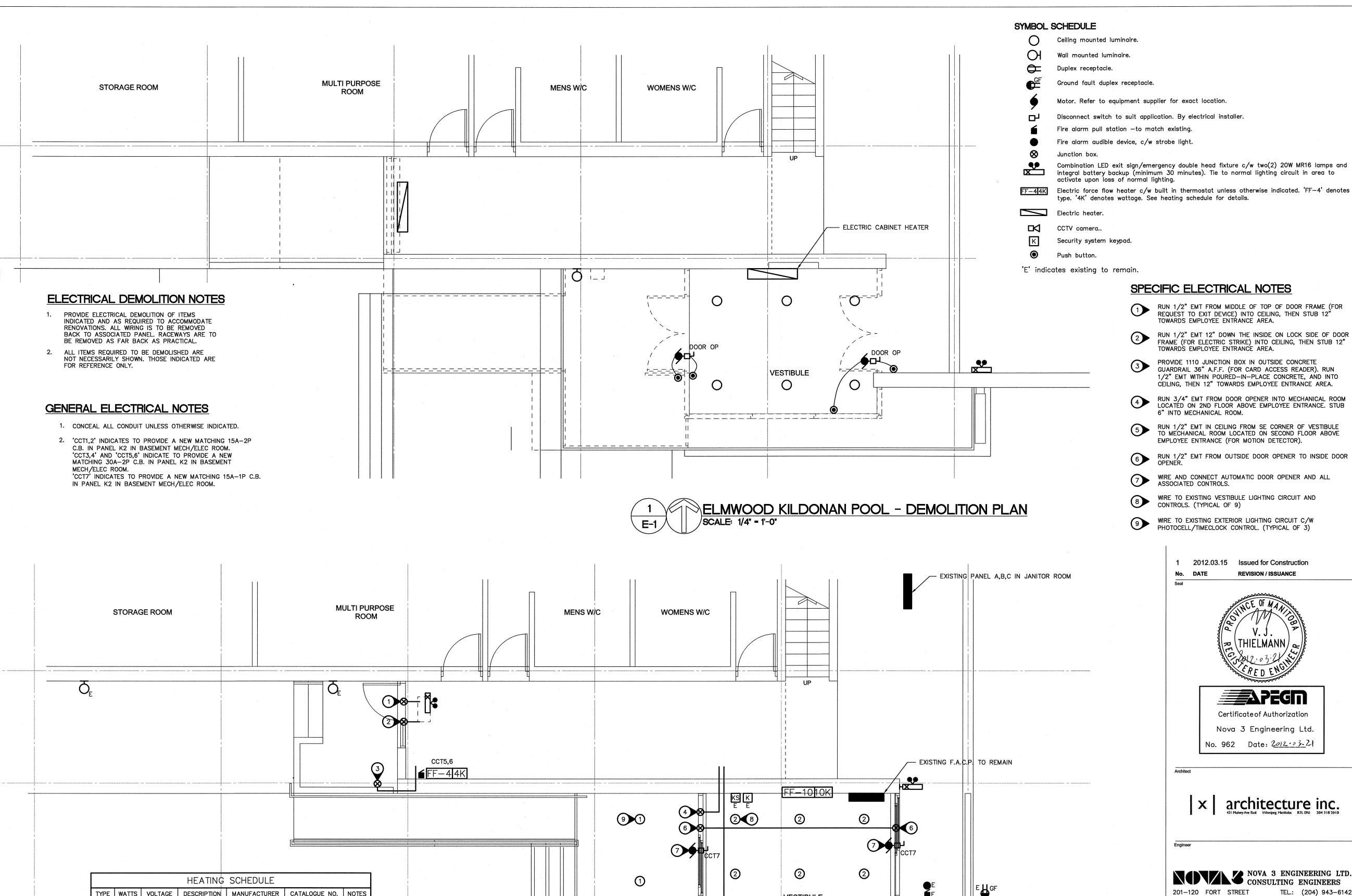
Contractor shall submit shop drawings to Contract Administrator for review prior to ordering equipment.

Supply and install, wire and connect all luminaires (to be complete with lamps) as Final connection to all mechanical equipment to be flexible. Obtain and refer to

mechanical shop drawings of mechanical equipment for circuit breaker and wire size. Adjust circuit breaker and wire size without additional cost to The City. All existing and new Contract Administrators equipment is to be wired and

connected. Supply and install, wire and connect matching receptacle for portable equipment complete with cord and cap. Refer to equipment name plate rating for electrical characteristics prior to rough—in. All Contract Administrators equipment which is non-portable, shall be directly connected via cab tyre cord matching electrical characteristics as determined by nameplate ratings of equipment. Confirm nameplate characteristics prior to rough—in.

Contract Administrator is responsible for the supply & installation of all communication wiring, unless otherwise noted.



TYPE | WATTS | VOLTAGE | DESCRIPTION | MANUFACTURER | CATALOGUE NO. | NOTES **VESTIBULE** J | 2500 | 208V-1PH | BASEBOARD ODB-BAI FF-4 4000 208V-1PH FORCE FLOW 1,2,4 OUELLET OAC4008 2 FF-10 | 10000 | 208V-3PH | FORCE FLOW OCA10038 D2 1,4,5,6 - CCT1.2------- CCT3,-4--1. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED. F 1750 2. SURFACE MOUNTED UNLESS OTHERWISE INDICATED. 3. C/W ANODIZED ALUMINUM FINISH. . RECESSED UNLESS OTHERWISE INDICATED. 6. RECONNECT TO EXISTING HEATER CIRCUIT. EXTEND FEEDERS AS REQUIRED. A. VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.

LUMINAIRE SCHEDULE DESCRIPTION CATALOG NUMBER LAMPS INDY M8HD-T6-70E C/W 6" HID DOWNLIGHT RECESSED IN SOFFIT - REFER TO 2-70W MH ARCHITECTURAL FOR EXACT LOCATIONS MT852B -B-L-FG/LB-27 INDY C6H-226Q C/W

C625B-Q-B-L-FG/LB-27

2-26W DTT

I. ALL FLUORESCENT BALLAST TO BE ELECTRONIC. MB HYDRO "POWER SMART" APPROVED. 2. ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, UNLESS OTHERWISE NOTED.

B. APPROVED EQUAL: CHROMALOX.

6" FLUORESCENT DOWNLIGHT RECESSED - REFER TO

ARCHITECTURAL FOR EXACT LOCATIONS

ELMWOOD KILDONAN POOL - RENOVATION LAYOUT

Elmwood Kildonan Front Entrance Upgrades

909 Concordia Ave

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201-120 FORT STREET

WINNIPEG, MANITOBA

R3C 1C7

SPECIFIC ELECTRICAL NOTES

TOWARDS EMPLOYEE ENTRANCE AREA.

TOWARDS EMPLOYEE ENTRANCE AREA.

6" INTO MECHANICAL ROOM.

ASSOCIATED CONTROLS.

CONTROLS. (TYPICAL OF 9)

RUN 1/2" EMT FROM MIDDLE OF TOP OF DOOR FRAME (FOR

RUN 1/2" EMT 12" DOWN THE INSIDE ON LOCK SIDE OF DOOR

FRAME (FOR ELECTRIC STRIKE) INTO CEILING, THEN STUB 12"

REQUEST TO EXIT DEVICE) INTO CEILING, THEN STUB 12"

PROVIDE 1110 JUNCTION BOX IN OUTSIDE CONCRETE

GUARDRAIL 36" A.F.F. (FOR CARD ACCESS READER). RUN

CEILING, THEN 12" TOWARDS EMPLOYEE ENTRANCE AREA.

1/2" EMT WITHIN POURED-IN-PLACE CONCRETE, AND INTO

RUN 3/4" EMT FROM DOOR OPENER INTO MECHANICAL ROOM

LOCATED ON 2ND FLOOR ABOVE EMPLOYEE ENTRANCE. STUB

RUN 1/2" EMT IN CEILING FROM SE CORNER OF VESTIBULE

TO MECHANICAL ROOM LOCATED ON SECOND FLOOR ABOVE

RUN 1/2" EMT FROM OUTSIDE DOOR OPENER TO INSIDE DOOR

WIRE AND CONNECT AUTOMATIC DOOR OPENER AND ALL

WIRE TO EXISTING VESTIBULE LIGHTING CIRCUIT AND

WIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT C/W

1 2012.03.15 Issued for Construction

REVISION / ISSUANCE

Certificate of Authorization

Nova 3 Engineering Ltd.

architecture inc.

TEL.: (204) 943-6142 FAX.: (204) 942-1276

JN.: 31-269

No. 962 Date: 2012.03-21

PHOTOCELL/TIMECLOCK CONTROL. (TYPICAL OF 3)

EMPLOYEE ENTRANCE (FOR MOTION DETECTOR).

ELECTRICAL LAYOUT

1125 - ---2012.03.15