1. Scope of Work — The contract shall include the furnishing of labour, new material, equipment and services necessary and reasonably implied and incidental to the complete installation of the electrical work shown on the plans and specifications. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the Contact Administrator.

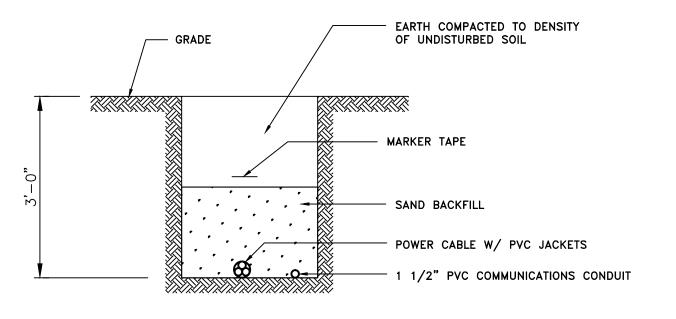
2. Laws, Rules, Ordinances and Inspections — The entire electrical installation shall comply with the latest edition of the Canadian Electrical Code and with all provincial and municipal laws; rules and ordinances. Prepare and submit to the proper authorities all necessary permits and pay all permit fees. 3. Electrical work shall be completed in conformance with, and subject to, all cautionary notes available to the reader including those available on the websites of the manufacturers and Contact Administrator.

4. Drawings — The Electrical Subcontractor shall carefully examine all drawings relating to the work, to be certain that the work under this contract can be carried out and, prior to the submission of his tender, report at once to the Contact Administrator any defect, discrepancy, omission or interference affecting the work of this section or the guarantee of same.

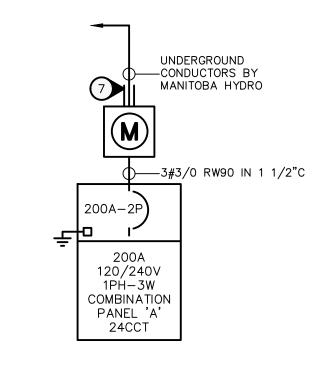
- 5. Responsibility Be responsible for any damage caused the owners or their contractors by improperly carrying out this contract.
- 6. Identification Install designatory lettering on all electrical equipment.
- 7. Guarantee The Electrical Subcontractor shall guarantee the satisfactory operation of all work and apparatus included and installed under this section for a period of twelve(12) calendar months after the final acceptance of the complete building.

8. Existing Work — The Electrical Subcontractor shall take into account items which he/she is responsible for due to the changes and alterations to the existing building and allow for such items that may occur in his/her tendered price.

- 9. Minimum wire size #12 AWG all wiring to be copper.
- 10. Unless otherwise instructed in writing, conceal all wiring.
- 11. Coordinate final location of electrical devices with architectural.



POWER AND TELEPHONE TRENCH DETAIL



SINGLE LINE DIAGRAM

SCALE: N.T.S

\* SIZE CIRCUIT BREAKER AND WIRING ACCORDING TO THE FINAL NAMEPLATE RATING ON THE EQUIPMENT.

NOTE: DASHED INDICATES EXISTING.



Big Linear luminaire, 'B1-a' denotes panel circuit # and switch.

Wall mounted luminaire. 'A' denotes type.

Duplex receptacle weather proof.

Ceiling mounted occupancy sensor. 'W' indicates wall mounted. Auto on/off unless otherwise indicated. Sensorswitch.

Photocell.

Duplex receptacle.

Duplex receptacle on separate circuit. Provide lamacoid label indicating "SC".

Ground fault duplex receptacle.

Motor. Refer to mechanical for exact location. For roof mounted equipment, supply and install wire and connect a separate circuit GFI receptacle in accordance with C.E.C. rule

Disconnect switch to suit application. By electrical contractor.

Junction box.

XLERATOR hand dryer (120V-PH, 1.4KW).

MOTOR SCHEDULE									
NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES	
EF-1	EXHAUST FAN	SERVICE CORRIDOR	120V-1PH	1.2 A	15A-1P	#12	TIMECLOCK	1,3	
HWT-1	HOT WATER TANK	SERVICE CORRIDOR	240V-1PH	3 KW	20A-2P	#12	-	1	

SPECIFIC NOTES

1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.

2. MANUAL STARTER BY ELECTRICAL.

3. TIMECLOCK BY MECHANICAL. WIRED BY ELECTRICAL. 4. WIRE ALL CONTROL ALARMS AS REQUIRED (SEE MECHANICAL).

A. MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION. B. ALL DISCONNECT SWITCHES TO BE SUPPLIED BY DIV. 16.

C. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.

D. ALL LOW VOLTAGE CONTROL WIRING BY DIV. 15.

E. ALL LINE VOLTAGE CONTROL WIRING BY DIV. 16 — REFER TO MECHANICAL SECTION. CO—ORDINATE EXACT REQUIREMENTS

		<b>LUMINAIRE SCH</b>	<u>EDULE</u>	
TYPE	DESCRIPTION	MOUNTING	CATALOG NUMBER	LAMPS
Α	4' FLUORESCENT LUMINAIRE	WITHIN COVE	LITHONIA Z-232-120-GEB10IS-CSA	2-32W T8
В	3' FLUORESCENT LUMINAIRE	WITHIN COVE	LITHONIA Z-225-120-GEB10IS-CSA	2-25W T8
С	4' FLUORESCENT STRIP C/W WIRE GUARD	SURFACE	LITHONIA Z-232-120-GEB10IS-CSA-WGZ48	2-32W T8
1	EXTERIOR WALL PACK	SURFACE, VERTICALLY	RAB VXBR	LED

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

3. PROVIDE PHOTOCELL CONTROL FOR ALL OUTDOOR LUMINAIRES. 4. COORDINATE FINAL LOCATION OF LUMINAIRES WITH ARCHITECTURAL

PANEL 'A' MOUNTING SURFACE LOCATION MECH ROOM			MAII REM	TAGE 120/240V-1PH-3W N BUS 200A ARKS -
DESCRIPTION	BKR C	IRCUIT	BKR	DESCRIPTION
EXTERIOR LIGHTING	15 1 -	<del>    2</del>	20	HAND DRYER
LIGHTING	15 3 <b>–</b>	4	20	HAND DRYER
GF RECEPTACLE	15 5 <del>-</del>	6	20	HAND DRYER
GF RECEPTACLE	15 7 <b>–</b>	8	15	DOOR OPERATOR
GF RECEPTACLE	15 9 <b>–</b>	10	15	DOOR OPERATOR
GF RECEPTACLE	15 11 <del>-</del>	12	15	DOOR OPERATOR
SC RECEPTACLE	15 13 <b>–</b>	14	20	EF-1
SPARE	15 <b>1</b> 5 <b>–</b>	16	20 -	¬ HWT−1
SPARE	15 17 <b>-</b>	18		
SPARE	15 19 <b>-</b>	20		SPACE
SPARE	15 21 <b>-</b>	22	_	SPACE
SPARE	15 23-	24	_	SPACE

## ELECTRICAL - SITE PLAN

## SPECIFIC ELECTRICAL NOTES

EXISTING HYDRO POLE C/W SINGLE PHASE 15KVA TRANSFORMER.

ELECTRICAL TO BE RELOCATED. COORDINATE ANY ELECTRICAL WORK REQUIRED FOR THE RELOCATED ELECTRICAL EQUIPMENT WITH MANITOBA HYDRO. COMPLETE ANY WORK DIRECTED BY THE UTILITY. PHASE THE DISCONNECTION OF THE EXISTING WASHROOM SERVICE TO COORDINATE WITH THE CONNECTION OF NEW WASHROOM SERVICE.

APPROXIMATE LOCATION OF RELOCATED UTILITY METER. SUPPLY AND INSTALL METER SOCKET.

4 APPROXIMATE LOCATION OF PANEL 'A'.

FEED A NEW 200A-120/240V-1PH-3W PANEL FROM EXISTING UTILITY POLE. RUN 3#3/0 TECK UNDERGROUND AND INTALL 1 1/2" PVC COMMUNICATIONS CONDUIT. COORDINATE EXACT REQUIREMENTS WITH MANITOBA HYDRO. REFER TO TRENCH

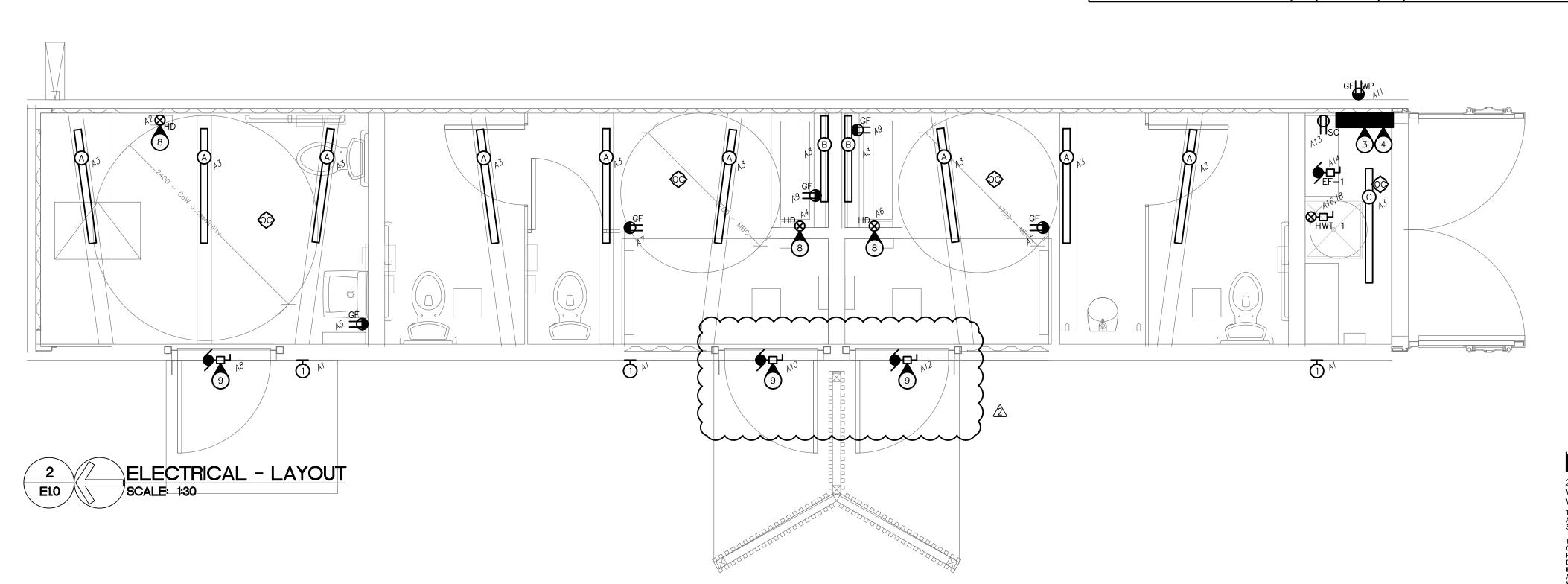
RECONNECT EXISTING SHELLER RECEPTACLES TO NEW FAINT 'A'. PROVIDE EXCAVATION AND TRENCHING AS REQUIRED. EXTEND/REROUTE WIRING AS REQUIRED.

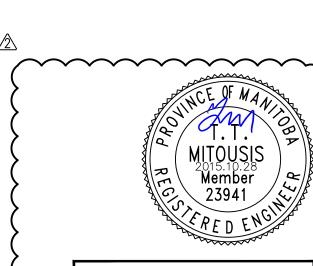
RECONNECT EXISTING SHELTER RECEPTACLES TO NEW PANEL

ASSOCIATED CONTROLS AS REQUIRED. CONFIRM REQUIREMENTS

2" PVC TO 3' BELOW GRADE FROM WEATHER PROOF METER SOCKET.

PROVIDE 120V POWER SUPPLY FOR XLERATOR HAND DR (120V-PH, 12.5A) AS REQUIRED. MODEL #XL-BW-120. PROVIDE 120V POWER SUPPLY FOR XLERATOR HAND DRYER 9 WIRE AND CONNECT HANDICAPPED DOOR OPERATOR AND ALL ASSOCIATED CONTROLS AS REQUIRED CONFIDM DECLINATION





**APEGM** Certificate of Authorization Nova 3 Engineering Ltd. No. 962 Date: <u>2015.10.28</u>

NOVA 3 ENGINEERING LTD.

CONSULTING ENGINEERS 201-120 FORT STREET TEL.: (204) 943-6142 WINNIPEG, MANITOBA R3C 1C7 FAX.: (204) 942-1276 | Drawn By WWW.NOVA3.CA JN.: 35055e THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD.

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The City of Winnipeg

No. Date

185 King Street, Main Floor Winnipeg, MB R3B1J1

1 2015.09.15 ISSUED FOR CONSTRUCTION

2 2015.10.28 ISSUED FOR ADDENDUM #1

Revision Notes

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other data on site prior to commencement of work. Discrepancies, errors, and are to be reported to the Architect prior to proceeding with the Work. Drawings and specifications as service are the property of the Architect; the copyright in the same being reserved drawings may be made without the permission of the Architect, and when made, must bear his name. All prints to be returned to the Architect upon St. Vital Park Washrooms

This drawing must not be scaled. The contractors shall verify all dimensions

Reviewed By TTM Drawing No.