

SITE LAYOUT - SCALE 1:250

GENERAL ELECTRICAL NOTES

1. LABEL ELECTRICAL CIRCUIT AND DEVICES WITH LAMACOID PLATES.
2. MINIMUM WIRE SIZE #12.
3. ALL SERVICE POINTS TO BE COORDINATED WITH MB HYDRO.

SPECIFIC ELECTRICAL NOTES

- 1 MANITOBA HYDRO SERVICE POINT. (MB HYDRO TO PROVIDE SERVICE CONDUCTORS TO CSTE)
- 2 PROVIDE NEW CSTE/PANEL A TO FEED NEW LIGHTING.
- 3 BURIED RWU-90 CU AND GROUND IN A RIGID PVC CONDUIT. PROVIDE TRENCHING, BACKFILLING AND SURFACE REPAIR AS REQUIRED. PUSH BELOW SURFACE WHERE PRACTICAL.
- 4 PROVIDE PHOTOCELL CONTROL OF CIRCUITS A1-5
- 5 BURIED 2 x #6 RWU-90 CU AND GROUND IN A 50mm RIGID PVC CONDUIT FOR CUSTOM OUTDOOR DYNAMIC LIGHTING ELEMENTS. 2 CONDUCTORS PER LIGHTING ELEMENT. PROVIDE TRENCHING, BACKFILLING AND SURFACE REPAIR AS REQUIRED. PUSH BELOW SURFACE WHERE PRACTICAL. CONNECTION BY OTHERS, N.I.C.
- 6 BURIED OUTDOOR RATED CAT 6 ETHERNET CABLE IN A 50mm RIGID PVC CONDUIT FOR CUSTOM OUTDOOR DYNAMIC LIGHTING ELEMENTS. 1-CAT 6 PER LIGHTING ELEMENT. PROVIDE TRENCHING, BACKFILLING AND SURFACE REPAIR AS REQUIRED. PUSH BELOW SURFACE WHERE PRACTICAL. CONNECTION BY OTHERS, N.I.C.
- 7 BURIED 2 x 50mm RIGID PVC CONDUITS FOR FUTURE CUSTOM OUTDOOR DYNAMIC LIGHTING ELEMENTS (1-POWER, 1-DATA). PROVIDE TRENCHING, BACKFILLING AND SURFACE REPAIR AS REQUIRED. PUSH BELOW SURFACE WHERE PRACTICAL.
- 8 STUB CONDUIT AND WIRING 1m FROM BUILDING FACE FOR FUTURE CONNECTION INTO BUILDING CONTROL ROOM. LEAVE SUFFICIENT CONDUCTOR LENGTH TO COMFORTABLY REACH INDOOR CONTROL PANEL LOCATION. CONFIRM LOCATION ON SITE WITH CONTRACT ADMINISTRATOR.
- 9 STUB 2x50mm RIGID PVC FROM TREES IN SODDED AREA TO TREE VAULT FOR FUTURE CONNECTION BY OTHERS
- 10 STUB 2x50mm RIGID PVC FROM 1m OUTSIDE BUILDING TO SOUTH SIDE MARKET AVENUE. TIE INTO SOUTH SIDE 2x50mm CONDUITS (SEE NOTE 7)

GENERAL NOTES

1. ALL DIMENSIONS SHOWN IN METRIC UNITS. NUMBERS WITH DECIMALS INDICATE METERS. WHOLE NUMBERS INDICATE MILLIMETERS.
2. REFER TO LANDSCAPE ARCHITECT'S LAYOUT PLAN FOR EXACT LOCATION OF ALL LIGHTING.
3. ALL UTILITIES ARE SHOWN AS INFORMATION ONLY. CONTRACTOR TO CONFIRM LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO PROTECT ALL TREES, POLES, AREAWAYS ETC. TO REMAIN TO CITY OF WINNIPEG STANDARDS.
5. MIN. CLEARANCE OF 1.0m TO BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EX. WATERMAIN OR SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORK OR MIN. 0.5m TO BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORK AND THE TOP OF ANY EX. WATERMAIN OR SEWERMAIN PIPE.
6. MAINTAIN MIN. LATERAL CLEARANCE OF 1.0m BETWEEN THE NEAREST EDGE OF THE PROPOSED WORK AND THE NEAREST EDGE OF ANY EX. WATERMAIN OR SEWERMAIN. PREFERRED 2.0m MIN. LATERAL CLEARANCE.
7. CONTACT CUSTOMER TECHNICAL SERVICES BRANCH (986-3322) FOR CLEARANCE OF EX. WATER AND WASTE DEPT. PLANT 48 HOURS PRIOR TO CONSTRUCTION.
8. TRAFFIC SIGNALS CLEARANCE REQUIRED PRIOR TO CONSTRUCTION. CONTRACTOR TO CALL 986-4193 MANUAL OF TEMPORARY TRAFFIC IN WORK ZONES ON CITY STREETS.

SYMBOL SCHEDULE

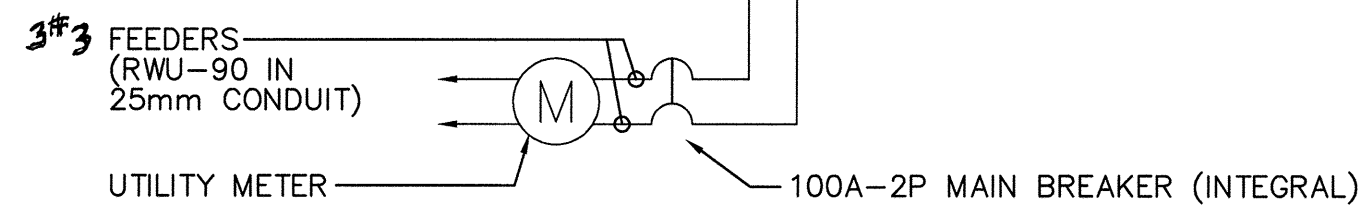
- (A) PEDESTRIAN LIGHTS TO BE 2 POST MOUNTED LUMINAIRES C/W ALUMINUM STREET LIGHT POLE. LUMINAIRE TO BE IGUZZINI I.5659-120-15 C/W 5953 CIRCULAR LOUVRE, 1-150W T6 MH LAMP AND G12 BASE. REFLECTOR TO BE I.4172-120-15. POLE TO BE VALMONT 5.5m HT. ROUND ALUMINUM STREET LIGHT POLE, 5" DIAMETER.
 - (B) WIRE AND CONNECT ILLUMINATED SIGN PANELS. COORDINATE ACCESS PANEL LOCATION.
 - (C) CUSTOM OUTDOOR DYNAMIC LIGHTING ELEMENT CONNECTION POINT (BY OTHERS N.I.C.). PROVIDE POWER WIRING AND DATA WIRING ONLY.
- NEW RIGID PVC CONDUIT FOR PEDESTRIAN LIGHTS
 --- NEW 50mm RIGID PVC CONDUIT

Electrical Specification

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 Contract 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. Responsibility - The Contractor shall be responsible for any damage caused the City or their Contractors by improperly carrying out this contract.
4. Drawings - The Contractor 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/her Bid in accordance with B4, report at once to the Contract Administrator any defect, discrepancy, omission or interference affecting the Work of this section or the guarantee of same.
5. Identification - Install designatory lettering on all electrical equipment.
6. Guarantee - The Electrical Contractor 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.
7. Existing Work - The Electrical Contractor shall take into account items which he/she is responsible for due to the changes and alterations to the existing site and allow for such items that may occur in his/her tendered price.
8. Minimum wire size #12 AWG all wiring to be copper.
9. All new distribution equipment is to be weather-proof, vandal-resistant.
10. Identify all existing underground plant and utilities. Repair any damage to existing underground plant and utilities caused during installation of electrical equipment wiring and bases.

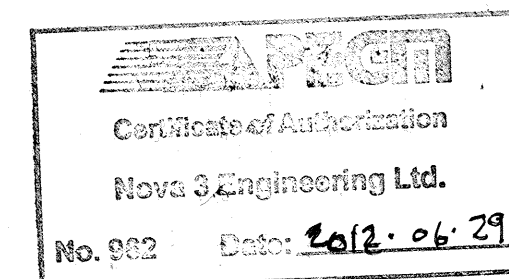
PANEL 'A'
 MOUNTING: PAD MOUNTED CSTE
 VOLTS: 120/240V/1Ø/3W
 MAIN BUS: 100A
 REMARKS: C/W GROUNDING AS PER CEC

DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION
NORTH SIDE LIGHTING	15	1	2	15 NORTH SIDE LIGHTING
SOUTH SIDE LIGHTING	15	3	4	15 SOUTH SIDE LIGHTING
SIGN PANEL	15	5	6	15 SPARE
SPARE	15	7	8	15 SPARE
SPARE	15	9	10	15 SPARE
SPARE	15	11	12	15 SPARE



PANEL 'A'
 NOTE: PANEL TO BE W.P., LOCKABLE, MANCO OR APPROVED EQUAL

NOVA 3 ENGINEERING LTD.
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WARNING
 IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

150 WM	WATERMAIN	150 WM	HYDRO	150 WM	WATERMAIN	150 WM	LOCATION APPROVED UNDERGROUND STRUCTURES
+	HYDRANT	+	M.T.S.	+	HYDRANT, VALVE	+	DATE
○	VALVE	○	CONCRETE	▨	LAND DRAINAGE SEWER	▨	SUPV. U/G STRUCTURES COMMITTEE
---	LAND DRAINAGE SEWER	---	SOD	---	WASTE WATER SEWER	---	NOTE:
---	WASTE WATER SEWER	---	SIDEWALK	---	WASTE WATER SEWER	---	LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
○	MANHOLE	○	PROPERTY LINE	□	NORTH OR WEST GUTTER	□	
□	CATCH BASIN	□	SURVEY BAR	○	SOUTH OR EAST GUTTER	○	
▽	CURB INLET	▽	DITCH	◇	NORTH OR WEST R	◇	
+	JUNCTIONS	+	ELEVATION	○	SOUTH OR EAST R	○	
+	CULVERT	+	SIDEWALK RAMP	△	NORTH OR WEST DITCH	△	
---	GAS	---		▽	SOUTH OR EAST DITCH	▽	
---	LEGEND-PLAN	---	LEGEND-PLAN	---	LEGEND-PROFILE	---	

DESIGNED BY	CHECKED BY	DATE
DZ/AH	DZ	
AH	SR	
1	ISSUED FOR TENDER	12.07.03 AH
0	ISSUED FOR U/S REVIEW	12.06.26 AH
NO. REVISIONS	DATE	BY
	12.06.26	

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DESIGNED BY: DZ/AH
 CHECKED BY: DZ
 DRAWN BY: AH
 APPROVED BY: SR

HOR. SCALE: 1:250
 VERTICAL: N/A

RELEASED FOR CONSTRUCTION: DATE

CONSULTANT DRAWING NO. E1

THE CITY OF WINNIPEG
 PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT
 PLANNING AND LAND USE DIVISION

MARKET AVENUE
 MAIN STREET TO RORIE STREET
 STREETScape
 ELECTRICAL LAYOUT

SHEET 12 OF 12
 CAD FILE DRAWING NUMBER
 CITY DRAWING NUMBER
P-3336-08