

1. CIVIC ADDRESS:

STORAGE SHED - 490 KEENLEYSIDE, WINNIPEG, MANITOBA

2. DRAWING INDEX:

- E01.0 - ELECTRICAL SYSTEMS - SITE PLAN
- E02.0 - ELECTRICAL SYSTEMS - MAIN LEVEL
- E03.0 - ELECTRICAL SYSTEMS - SINGLE LINE DIAGRAM
- E04.0 - ELECTRICAL SYSTEMS - DEMAND CALC, EQUIPMENT, & PANEL SCHEDULES
- E05.0 - ELECTRICAL SYSTEMS - INSTALLATION SPECIFICATIONS

3. WARNING:

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND LANDSCAPE DRAWINGS.

BEFORE ROUGH-IN WIRING, REFER TO ARCHITECTURAL DRAWING FOR EXACT LAYOUT, DIMENSIONS AND ELEVATIONS.

ANY CHANGES TO DRAWINGS SHALL BE IN WRITING & AUTHORIZED BY THE CONTRACT ADMINISTRATOR.

ELECTRICAL SUB-CONTRACTOR TO SUPPLY & INSTALL ELECTRICAL EQUIPMENT NOTED ON PLANS FOR A WORKING SYSTEM UNLESS OTHERWISE NOTED.

DO NOT SCALE OFF THIS DRAWING.

PROMPTLY REPORT ALL ACCIDENTS AND POTENTIAL LIABILITY CLAIMS TO THE CONTRACT ADMINISTRATOR.

4. ELECTRICAL SUB-CONTRACTOR BID NOTES

- 4.1. EQUIPMENT:**
- 4.1.1. THE ELECTRICAL SUB-CONTRACTOR SHALL SUBMIT BID BASED ON THE EQUIPMENT SPECIFIED IN THE WRITTEN SPECIFICATION AND ON THE DRAWINGS. NO ALTERNATES WILL BE CONSIDERED BEFORE THE CONTRACT HAS BEEN AWARDED.
 - 4.1.2. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE CURRENT THE WINNIPEG ELECTRICAL BY-LAW, MANITOBA BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION.
 - 4.1.3. THE ELECTRICAL SUB-CONTRACTOR SHALL NOT UNDER ANY INSTANCE REDUCE THE STANDARD ESTABLISHED BY THE CONTRACT DOCUMENTS BY ANY OF THESE CODES OR REGULATIONS REFERRED TO IN (3).
 - 4.1.4. ANY PROPOSED RELOCATION(S) BY THE ELECTRICAL SUB-CONTRACTOR OF ELECTRICAL EQUIPMENT AND OTHER EQUIPMENT THAT REQUIRES ELECTRICAL POWER/CONNECTIONS (FROM THAT SHOWN ON THE DRAWINGS) MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR IN WRITING.
- 4.2. DOCUMENTS:**
- 4.2.1. ELECTRICAL SUB-CONTRACTORS PRICING/BIDDING MUST OBTAIN A COMPLETE SET OF CURRENT DOCUMENTS INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING, SPRINKLER, STRUCTURAL, SURVEY AND ALL OTHER DRAWINGS/SPECIFICATIONS FOR THIS PROJECT.
 - 4.2.2. CERTAIN INFORMATION REQUIRED TO PROPERLY PRICE WORK INDICATED ON THE ELECTRICAL DRAWINGS MAY BE FOUND IN OTHER CONSULTANTS DRAWINGS.

5. WORKERS COMPENSATION BOARD (WCB):

- 5.1. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE TO ADMINISTER AND PROVIDE FOR ALL MATTERS RELATED TO THE JURISDICTION OF THE WORKERS COMPENSATION BOARD INCLUDING BUT NOT LIMITED TO SITE SAFETY, TEMPORARY AND ANCILLARY WORKS, TRAINING, AND CONTROL OF THE WORK AND WORK PROCESSES.
- 5.2. THE ELECTRICAL SUB-CONTRACTOR SHALL ENSURE COMPLIANCE WITH WORKERS COMPENSATION BOARD INDUSTRIAL HEALTH AND SAFETY REGULATIONS PROVINCIAL OR LOCAL BYLAWS AND ORDINANCES, AND GOOD WORK PRACTICES AND WHERE NECESSARY OR PRUDENT SHALL PROVIDE ENGINEERING EXPERTISE TO CONFIRM SUCH COMPLIANCE.
- 5.3. THE ELECTRICAL SUB-CONTRACTOR ALONE IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOBSITE.

6. UTILITY:

POWER/TELEPHONE/CABLE/SERVICE INCOMING SERVICE (LOCATION OF EQUIPMENT/DUCT ROUTING) INFORMATION TO BE CONFIRMED. (INFORMATION SHOWN IS TO FACILITATE DISCUSSION WITH AUTHORITY ON PROPOSED SERVICE ENTRY PREFERRED LOCATION AND ARE FOR THAT PURPOSE ONLY).

7. NOTES:

- 7.1. UTILITIES:**
- 7.1.1. THE ELECTRICAL SUB-CONTRACTOR SHALL INCLUDE IN HIS QUOTE FOR INSTALLATION OF ELECTRICAL SERVICE FROM THE METER TO REST OF CUSTOMER OWNED EQUIPMENT AS SHOWN ON THE DRAWINGS. INCOMING UTILITIES SERVICE TO THE METER SHOWN ON DRAWINGS ARE FOR COORDINATION PURPOSE AND TO BE COORDINATED AND FINALIZED LATER WITH SUPPLY UTILITY. ALL UNDERGROUND UTILITY DUCTS, WHENEVER REQUIRED, AND WIRING ARE TO BE INSTALLED AS PER CEC 12-012 AND RUN IN JOINT TRENCH WHERE POSSIBLE. DUCT BENDS MUST BE 36" RADIUS (MINIMUM).
 - 7.1.2. TELECOMMUNICATION UNDERGROUND DUCTS ARE SHOWN FOR COORDINATION TO THE NEAREST POSSIBLE TELECOMMUNICATION CONNECTION POINT. ELECTRICAL SUB-CONTRACTOR TO INCLUDE IN HIS PRICE SUPPLY & INSTALL OF DUCTS TO THE PROPERTY LINE AS SHOWN. ELECTRICAL SUB-CONTRACTOR TO CONFIRM WITH SERVICE PROVIDERS THE EXACT ROUTING.
 - 7.1.3. ALL UNDERGROUND UTILITY SLEEVES/DUCTS ARE TO BE INSTALLED AS PER CEC 12-012, ELECTRICAL & COMMUNICATION UNDERGROUND INSTALLATION TO RUN IN JOINT TRENCH WHERE POSSIBLE TO THE BUILDING. BENDS MUST BE OF MINIMUM BEND RADIUS OF 36".
 - 7.1.4. ELECTRICAL SUB-CONTRACTOR MUST CO-ORDINATE ROUTING AND INSTALLATION OF ALL UNDERGROUND DUCTS WITH:
 - 7.1.4.1. UTILITIES (HYDRO, TELEPHONE, GAS, CABLE) REGARDING EXACT ROUTING, DEPTH OF BURIAL AND OTHER REQUIREMENTS.
 - 7.1.4.2. MECHANICAL AND OTHER CONTRACTORS REGARDING INTERFERENCE WITH STORM SEWER, SANITARY SEWER, GAS LINES, CATCHBASINS, AND SIMILAR UNDERGROUND SITE/CITY SERVICES.
 - 7.1.5. SEAL THE DUCTS FROM UTILITY SIDE TO PREVENT WATER ACCUMULATION IN DUCTS. IF THAT CANNOT BE ENSURED, PROVIDE SERVICE DUCTS WITH A DRAIN CONNECTION BEFORE ENTRY TO THE BUILDING. THIS DRAIN IS INTENDED FOR RELIEF OF INCIDENTAL WATER ENTERING THE DUCT. THE DRAIN MUST NOT BE USED TO HANDLE ANY FORM OF AREA DRAINAGE.
 - 7.1.6. ALL SERVICE DUCTS MUST BE SEALED AT POINT OF ENTRY INTO BUILDING THROUGH WALLS. THE SEAL SHALL PREVENT WATER ENTRY INTO THE BUILDING THROUGH THE WALL PENETRATION AND IN ADDITION, THE INSIDE OF THE DUCTS (WHERE POSSIBLE) MUST ALSO BE SEALED AGAINST WATER ENTRY. ENSURE WATERPROOF MATERIAL DOES NOT OBSTRUCT DUCT DRAIN WHEN PROVIDED.
 - 7.1.7. WHEN INSTALLED OUTDOORS, ARC PRODUCING ELECTRICAL EQUIPMENT/POWER METER SHALL NOT BE INSTALLED WITHIN 1 METER OF THE COMBUSTIBLE GAS METER, GAS RELIEF DEVICE OR VENT.
 - 7.1.8. CO-ORDINATE WITH THE CONTRACTOR, HYDRO, ELECTRICAL INSPECTOR AND WITH ALL AUTHORITIES HAVING THE JURISDICTION FOR THE FOLLOWING:
 - 7.1.8.1. MECHANICAL PROTECTION (STEEL PROTECTION) POSTS AND REQUIREMENTS OF POSTS PER UTILITY AND CODE.
 - 7.1.8.2. MECHANICAL PROTECTION POSTS TO BE PROVIDED (SUPPLY/INSTALLATION) BY THE CONTRACTOR.
 - 7.1.8.3. PROTECTION OF EXISTING TREES/SHRUBS: ELECTRICAL SUB-CONTRACTOR MUST CO-ORDINATE ROUTING OF ALL UNDERGROUND DUCTS AND ALL UNDERGROUND WIRING WITH CONTRACT ADMINISTRATION TO PROTECT AND MAINTAIN EXISTING TREES AND SHRUBS AS INDICATED ON ARCHITECTURAL DRAWINGS.
- 7.2. OUTDOOR LIGHTS:**
- 7.2.1. THE OUTDOOR LIGHTS (LANDSCAPE, BUILDING PERIMETER, ROADWAY, ETC.) SHALL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, VIA CONTACTOR(S).
 - 7.2.2. REFER TO DRAWINGS FOR LIGHTING LAYOUT AND LUMINAIRE SCHEDULE.
- 7.3. CAUTION: ALL OTHER SUBCONSULTANTS/TRADES - ELECTRICAL ROOM:**
- 7.3. NO LAVATORIES, BATH TUBS, ETC. ON FLOOR AREA ABOVE THE ELECTRICAL ROOM.
 - 7.4. IF EQUIPMENT ABOVE HAVE TO BE LOCATED ABOVE TO ELECTRICAL ROOM DUE TO FLOOR AREA LIMITATION, PROVIDE ADEQUATE PROTECTION TO ELECTRICAL EQUIPMENT TO PREVENT LEAKED WATER, CONDENSATION WATER, AND ANY OTHER FORM OF WATER FROM ACCIDENTAL AND SUDDEN DISCHARGE ON ELECTRICAL REQUIREMENT.

ABBREVIATIONS	
FFL	FINISH FLOOR LEVEL
AFF	ABOVE FINISH FLOOR
FGL	FINISH GRADE LEVEL
MOUNTING HEIGHTS	TO UNDERSIDE OF THE ROUGH-IN OF THE SAID INSTALLATION
NL	NIGHT LIGHT
U/G	UNDER GROUND
WP	WEATHER PROOF

LEGEND	
	SURFACE MOUNTED LUMINAIRE (1 DENOTES TYPE)
	WALL MOUNTED LIGHT FIXTURE (1 DENOTES TYPE)
	NIGHT LIGHT
	SINGLE POLE SWITCH (3 DENOTE 3 WAY SWITCH)
	DUPLEX RECEPTACLE-C DENOTES UNDER COUNTER, W DENOTES MICROWAVE DESIGNATED
	QUAD RECEPTACLE
	208/220V RECEPTACLE-REFER TO PANEL FOR CONFIGURATION
	JUNCTION BOX - CEILING/WALL
	POWER PANELBOARD - FLUSH MOUNT/SURFACE MOUNT
	MOTOR CONNECTION
	CARBON MONOXIDE ALARM SYSTEM - ALARMS TO BE INTERCONNECTED - 120V C/W BATTERY BACKUP
	WATER PROOFED
	JUNCTION BOX - SIZE AS NOTED
	BURGLAR ALARM PANEL - MAIN BUILDING
	BURGLAR ALARM JUNCTION BOX - SHED
	GAS DETECTION SYSTEM - AS NOTED
	DISCONNECT SWITCH-NUMBER OF POLES PER CIRCUIT DESIGNATION

GENERAL NOTES

1. SCOPE OF PLANS IS LIMITED TO ELECTRICAL SYSTEMS FOR STORAGE SHED AS SHOWN ON PLANS.
2. ELECTRICAL SUB-CONTRACTOR TO SUPPLY & INSTALL ALL ELECTRICAL MATERIALS REQUIRED TO COMPLETE THE JOB AS NOTED IN THE CONTRACT DOCUMENTS FOR A FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. ELECTRICAL SUB-CONTRACTOR TO REPAIR TO A FULLY FUNCTIONAL CONDITION ANY ELECTRICAL SYSTEMS AFFECTED BY THIS CONTRACT.
4. SUPPLY & INSTALL CONDUITS AS NOTED ON PLANS C/W PULL CORDS. LABEL PULL CORDS AT EACH END.
5. ALL HARDWARE UNDER THIS CONTRACT TO BE OF CORROSION RESISTANT MATERIAL.

CABLE TYPES:

ELECTRICAL BURIED CABLE

ELECTRICAL COMMUNICATION CONDUIT



EXIST EAST ELMWOOD COMMUNITY CENTRE 490 KEENLEYSIDE ST. MAIN FLOOR



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