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LOCATION OF UNDERGROUND STRUCTURES AS

SHOWN ARE BASED ON THE BEST INFORMATION

FOR TENDER

FOR APPROVAL

NO. REVISIONS

AVAILABLE BUT NO GUARANTEE IS GIVEN

CONFIRMATION OF EXISTENCE AND EXACT

OBTAINED FROM THE INDIVIDUAL UTILITIES

BEFORE PROCEEDING WITH CONSTRUCTION

LOCATION OF ALL SERVICES MUST BE

THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT.

CATCH BASIN

CURB INLET

REDUCER

COUPLER

ANODE

LEGEND-PLAN

 \bigcap

EXISTING

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EXISTING

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PROPOSED

EXIST.POLE TOP LUMINARES

PROP. POLE & LUMINARE

PROP. BASE, POLE & LUMINARE

TREE

BURIED LIGHT CABLE

LEGEND-PLAN

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EXISTING

PROPOSED

TOP OF LIMESTONE BASE

LEGEND-PROFILE

- 1. THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE (CEC) AND WITH ALL PROVINCIAL AND MUNICIPAL LAWS, RULES
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOUR AND EQUIPMENT NECESSARY FOR INSTALLING, TESTING AND PLACING IN INITIAL OPERATION THE COMPLETE ELECTRICAL SYSTEM.
- 3. EXAMINE ALL PLANS AND SPECIFICATIONS PERTAINING TO THIS CONTRACT. NOTIFY CONTRACT ADMINISTRATOR OF ERRORS OR OMISSIONS BEFORE SUBMITTING THE PRICE. FAILING SUCH NOTIFICATION, THIS CONTRACTOR
- SHALL MEET ALL SUCH REQUIREMENTS WITHOUT EXTRA COST TO THE CITY. 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL NECESSARY FEES AND GIVE
- ALL NECESSARY NOTICES.
- 5. ALL WORK COMPLETED SHALL BE ACCOMPLISHED IN A FIRST CLASS & WORKMAN LIKE STYLE 6. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BE CSA AND
- 7. ALL WORK SHALL BE LAID OUT IN ITS MECHANICAL APPEARANCE. IT SHALL BE LOGICALLY ARRANGED FOR SIMPLICITY OF ACCESSIBILITY AND ELECTRICAL EFFICIENCY.
- 8. THE CONTRACTOR SHALL PROVIDE LAMACOID NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT/DEVICES AND SHALL MOUNT THE NAMEPLATES ON ALL EQUIPMENT TO INDICATE FUNCTION, VOLTAGE AND POWER OF DEVICES.
- 9. THIS SPECIFICATION IS NOT INTENDED TO RESTATE THE APPLICABLE CODES. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING, ETC. AND FOLLOWING ALL WIRING METHODS.
- 10. THE CONTRACTOR SHALL EXAMINE THE CONDITIONS OF THE SITE AND SHALL BE RESPONSIBLE FOR ALL EQUIPMENT, MATERIAL, AND LABOUR NECESSARY FOR THE WORK REQUIRED FOR THIS
- 11. PRIOR TO SCHEDULING FINAL INSPECTION, THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS COMPLETED AND IN PARTICULAR THAT OPERATION AND MAINTENANCE MANUALS ARE COMPLETED, ALL NAMEPLATES INSTALLED, VERIFICATION TESTS HAVE BEEN DONE AND CERTIFICATES HAVE BEEN RECEIVED THAT INDICATE WORK INSTALLED CONFORMS TO ALL REQUIREMENTS.
- 12. THE ENTIRE INSTALLATION SHALL BE GROUNDED IN CONFORMANCE WITH THE LATEST EDITION OF THE CEC.
- 13. THE IRRIGATION SYSTEM MUST BE PROTECTED. ANY DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND PAID FOR BY THE CONTRACTOR.

- THE CONTRACTOR SHALL MAINTAIN ONE SET OF PLANS AT JOB SITE WHICH HE SHALL CLEARLY NOTE ALL CHANGES OR DEVIATIONS FROM THE CONTRACT DOCUMENT AS THE JOB PROGRESSES. THE CONTRACTOR SHALL SUBMIT THREE SETS OF AS-BUILT DRAWINGS TO THE CONTRACT ADMINISTRATOR ON COMPLETION OF THE JOB.
- 2. THE CONTRACTOR SHALL PROVIDE THREE COPIES OF OPERATIONS & MAINTENANCE (O & M) MANUALS. THE O & M MANUALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TECHNICAL BULLETIN #15 ISSUED BY THE JOINT MAA/WCA COMMITTEE AND THE CONTRACT GENERAL CONDITIONS. THE CONTRACTOR SHALL SUBMIT ONE PRELIMINARY COPY PRIOR TO THE COMPLETION OF WORK, REVISE AS DIRECTED AND SUBMIT FINAL COPIES TO THE CONTRACT ADMINISTRATOR.

THE CONTRACTOR SHALL LAYOUT ALL WORK, ESTABLISHING ALL LINES, LEVELS AND CENTRES AND SHALL ASSUME RESPONSIBILITY FOR ANY ERRORS RESULTING FROM FAILURE TO USE ADEQUATE CAUTION.

LIGHTING

- LIGHTING SHALL CONSIST OF TWELVE (12) 400W 240V AREA CUTOFF LUMINAIRES C/W 330W CDM LAMP MOUNTED ON 8 EXISTING 7.32 METER STEEL POLES. LIGHTING TO MEET THE FOLLOWING
- (A) 60.0 LUX AVERAGE ILLUMINANCE
- (B) ≤ 2.0 AVERAGE/MIN (C) < 5 MAX/MIN
- (D) LDD FACTOR = 0.9 NOTE THAT MEAN LUMENS USED IN LIEU OF LLD (E) COEFFICIENT OF VARIATION ≤ 0.45
- 2. POST TOP LUMINAIRES SHALL MEET THE FOLLOWING CRITERIA:
- (A) CSA APPROVED OR ULC LISTED (B) SUITABLE FOR WET LOCATION
- (C) DIE-CAST ALUMINUM HOUSING
- (D) CORROSION RESISTANT HARDWARE (E) HIGH IMPACT CLEAR TEMPERED GLASS LENS
- (F) LAMP SHALL BE 330W CDM PHILLIPS ALLSTART(G)

1. THE CONTRACTOR SHALL MEET THE CONTRACT ADMINISTRATOR ON SITE TO VERIFY/AIM LUMINAIRES AND TO MEASURE LIGHTING LEVELS ON COMPLETION OF THE WORK. NOTE THAT SITE VISIT WILL BE REQUIRED AFTER

THE CHAIN LINK FENCE SHOULD BE CONSTRUCTED IN ACCORDANCE WITH CW 3550—CHAIN LINK FENCING OF THE CITY OF WINNIPEG—STANDARD CONSTRUCTION SPECIFICATIONS AND SCD—152B. IT SHOULD ALSO MEET THE EXISTING FENCE.

NOTES:
1. EXISTING POLES AND WIRING TO REMAIN. 16 EXISTING LUMINAIRES TO BE REMOVED AND TURNED OVER TO OWNER'S DESIGNATED LOCATION. 2. PROVIDE AND INSTALL 12 NEW LUMINAIRES ON THE 8 EXISTING POLES AS INDICATED ON THE DRAWING. TYPE AA LUMINAIRES TO BE RUUD

AC3640-T-240-15 DEGREE TILT OR APPROVED EQUAL. LAMPS TO BE PHILLIPS 330 WATT ALLSTART. EQUALS WILL BE JUDGED USING LATEST VERSION OF AGI32 LIGHTING SOFTWARE. AVERAGE LEVELS TO BE 60

- LUX, AVG: $MIN \le 2.0$, $MAX: MIN \le 5.0$ AND $CV \le 4.5$. LLF = 0.9 AND DOES NOT INCLUDE LUMEN DEPRECIATION. 3. EXISTING PANELBOARD IS AN FPE BE132-40 200A MAINS. PROVIDE NEW
- 15A-1P BREAKER TO FEED 2 NEW LIGHTING CONTACTORS. SEE DETAIL 4. BULLHORNS TO BE PROVIDED AND INSTALLED ON THE 4 2-LUMINAIRE POLES. BULLHORNS TO BE VALMONT BH2-180. COORDINATE TOP/TENON OF POLE TO BULLHORN AND TENON OF BULLHORN TO LUMINAIRE (SEE
- DETAILS 3A & 3B). EXISTING POLES APPEAR TO BE 5" ROUND, NON-TAPERED.
- 5. PROVIDE ADAPTORS TO TOP OF 4 SINGLE-LUMINARE POLES TO COORDINATE ATTACHMENT OF SINGLE LUMINARE TO TOP OF POLE. 6. PROVIDE NEW LOCKABLE NEMA 3R ENCLOSURE TO BE ATTACHED TO OPPOSITE SIDE OF POLE FROM PANELBOARD. PROVIDE 2 NEW 6-POLE
- LIGHTING CONTACTORS TO CONTROL LAWN BOWLING LIGHTS. PROVIDE NEW STSP SWITCH ON OUTSIDE OF ENCLOSURE COMPLETE WITH WEATHERPROOF LOCKABLE COVER TO SWITCH CONTACTORS. L

7. OCATE SWITCH 4.5 FEET ABOVE GRADE. SEE DETAIL 1.

- 8. THE CONTRACTOR TO COORDINATE ALL LOCKS WITH THE PARKS & OPEN
- SPACE DIVISION ELECTRICIAN. PROVIDE THREE (3) SETS OF KEYS FOR THE LOCKABLE DEVICE.



APPROVED

RELEASED FOR

CONSTRUCTION

DATE JULY 9,2012

N.A.

N.A.

HOR. SCALE

DATE JULY 9,2012

VERTICAL

1/7/12

G.A.

161-2011

FILENAME:

DORGE PARK

THE CITY OF WINNIPEG Planning, Property and Development Depart.

Urban Design
Parks and Public Spaces Unit 15-30 Fort Street

BOUKEVALE LAWN BOWLING GREEN 100 FERRY ROAD PROPOSED LIGHTING

SHEET 1 OF 1 CITY DRAWING NUMBER

B.54 - G