



- CONSTRUCTION NOTES:**
1. THE CONTRACTOR MUST COMPLY WITH ALL SPECIFICATIONS OUTLINED IN E23 - OPERATING CONSTRAINTS FOR WORK IN CLOSE PROXIMITY TO FEEDERMANS.
 2. PROPOSED WATERMAIN RENEWAL TO BE COMPLETED BY OTHERS IN JUNE / JULY 2011.
 3. EXIST. ALUMINUM GUARDRAIL TO BE SALVAGED AND DELIVERED TO CITY YARD. IN ACCORDANCE WITH E21

MATCHLINE AT STA: 0+170

MATCHLINE AT STA: 0+340

SEE SHEET 16 FOR MULTI-USE PATH LAYOUT PLAN



BISON DR

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

- 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 210/72 FOR DETAILS.
 3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.
300 LDS	HYDRANT VALVE	300 LDS	MTS	MTS	300 mm L.D.S.	300 mm L.D.S.	HYDRANT VALVE	300 mm L.D.S.
250 WWS	LAND DRAINAGE SEWER	250 WWS			250 mm W.W.S.	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
	WASTE WATER SEWER						MANHOLE	
	MANHOLE						CATCH BASIN	
	CATCH BASIN						CURB INLET	
	CURB INLET						JUNCTIONS	
	JUNCTIONS						CULVERT	
	CULVERT						100 GAS	
	100 GAS							
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

UNDERGROUND STRUCTURES

SUPPLY U/G STRUCTURES COMMITTEE DATE

NOTE:
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.

B.M.	654271 N 5517192.470 E 632610.651
ELEV.	233.084
NO.	REVISIONS
DATE	BY

DESIGNED BY	RTP
DRAWN BY	PMW
CHECKED BY	JNC
APPROVED BY	DPK
HOR. SCALE	1:250
VERTICAL	1:10
DATE	2011/06/23

ENGINEER'S SEAL

PROVINCE OF MANITOBA
ORIGINAL STAMPED BY
J.N. CRANG
2011/06/23
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
11-4587

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

BISON DRIVE & PEMBINA HIGHWAY
INTERSECTION IMPROVEMENTS

PAVING AND GRADING
STA: 0+170 TO 0+340

CITY DRAWING NUMBER
P-3327-10

SHEET **10** OF **24**

CONSULTANT DRAWING NUMBER

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