

THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT TRANSPORTATION ENGINEERING DIVISION

KENASTON BOULEVARD AT BISHOP GRANDIN BOULEVARD

CONCRETE CULVERT EXTENSION

BID OPPORTUNITY No. 1003-2010

DESIGN DATA

- CL625 - DESIGN LANE LOAD

- CSA G30.18 - M92 (R2002) GRADE 400W

CONCRETE STRENGTH AT 28 DAYS - 35 MPa

GENERAL NOTES

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS.

CONTRACTOR SHALL SITE VERIFY ALL EXISTING DIMENSIONS.

INVERT ELEVATION OF EXISTING CULVERT AT DOWNSTREAM END IS APPROXIMATE ONLY. CONTRACTOR SHALL SITE VERIFY THIS ELEVATION.

CONCRETE CLEAR COVER TO REINFORCEMENT 65mm FOR TOP FACE OF CULVERT, 50mm FOR ALL OTHER SURFACES.

SUPPLY SUPPORT BARS FOR MAIN REINFORCEMENT AS REQUIRED.

LAP SPLICE SCHEDULE

BAR SIZE	EMBEDMENT	TENSION LAP
15M	400	550
20M	500	700
25M	800	1100

LAP SPLICE SCHEDULE IS FOR CLASS B SPLICE UNLESS NOTED OTHERWISE.

LOCATE REINFORCING SPLICES NOT INDICATED ON THE DRAWINGS AT POINTS OF MINIMUM STRESS. LOCATIONS OF SPLICES TO BE APPROVED BY THE ENGINEER.

BEFORE PLACING REBAR ENSURE IT IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER DELETERIONS MATERIAL WHICH WOULD REDUCE THE BOND TO CONCRETE.

- STAGING AS SHOWN ON THE DRAWINGS IS NOT MANDITORY. THE CONTRACTOR MAY DEVELOPE ALTERNATIVE CONSTRUCTION STAGING AND SEQUENCING FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR.

 THE CONTRACTOR DEVELOPED CONSTRUCTION STAGING AND CONSTRUCTION SEQUENCING MUST MEET THE CRITICAL STAGES, SUBSTANTIAL PERFORMANCE, TOTAL PERFORMANCE AND REGULATORY DATES AS STATED IN THE SPECIFICATION.

DRAWING INDEX

DWG. NO.	DESCRIPTION	SH	ΕT	
C375-11-01 C375-11-02 C375-11-03 C375-11-04 C375-11-05 C375-11-06	COVER SHEET & DRAWING INDEX SITE PLAN — EXISTING STAGE I SITE PLAN — DEMOLITION & EXCAVATION STAGE II SITE PLAN — DEMOLITION & EXCAVATION SITE PLAN — COMPLETION OF CULVERT AND RETAINING WALL SITE PLAN — COMPLETION OF FUTURE ROADS	1 2 3 4 5 6	OF OF OF OF	1 1 1 1
C375-11-07 C375-11-07 C375-11-09 C375-11-10 C375-11-11 C375-11-12 C375-11-13 C375-11-14	EXCAVATION & EARTHWORK DETAILS CONCRETE PLAN & ELEVATION CONCRETE SECTIONS & DETAILS REINFORCING DETAILS — SHEET 1 OF 3 REINFORCING DETAILS — SHEET 2 OF 3 REINFORCING DETAILS — SHEET 3 OF 3 REINFORCING DETAILS — SHEET 3 OF 3 REINFORCING BILL OF MATERIAL RETAINING WALL CONCRETE & REINFORCING	7 8 9 10 11 12 13	OF OF OF	1 1 1 1 1 1 1 1 1 1 1

LIST OF ABBREVIATIONS

APPROX.	ALUMINUM APPROXIMATE	IB I.F. LG. MK.	IRON BAR INSIDE FACE LONG MARK
AVE. 3.C. 30T.	BEGINNING OF CURB	MAX. m MIN.	MAXIMUM METRE MINIMUM
3/W	BOTH WAYS CAST-IN-PLACE	mm No.	MILLIMETRE NUMBER
DJ.	CONTRUCTION JOINT CENTRE LINE COMPLETE WITH	0.F. 0/C	OUTSIDE FACE
C/W CONC.	COMPLETE WITH CONCRETE	0/0 PL.	OUTSIDE TO OUTSIDE PLATE
CONT.	CONTINUOUS CLEAR	QTY.	QUANTITY RADIUS
	CRESCENT		REINFORCEMENT
	DIAMETER		SUBSTRUCTURE UNIT
OWG. E.C.	DRAWING END OF CURB	TYP. T/O	
i.E. I.F.	END OF CURB EACH END EACH FACE	Ú.N.O. U/S	UNLESS NOTED OTHERWISE UNDERSIDE
Q.	EACH WAY EQUAL	VÉRT. WM	VERTICAL WATERMAIN
EL.	EQUAL SPACE ELEVATION GALVANIZING	WP W/	WORKING POINT WITH
20LY.	OUTANITIO		

LOCATION PREFIX H - HEADWALL







RELEASED FOR CONSTRUCTION BY

Certificate of Authorization

Stantec Consulting Ltd. lo. 1301 Date:__



Stantec Consulting Ltd.

G-001

WINNIPEG

MANITORA

MICHELLE HARMS, P.ENG. DATE:

LOCATION-

CITY DRAWING No. C375-11-01

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