

# 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**

DESIGN SPECIFICATION - CAN/CSA-S6-06 LIVE LOAD - 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

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.

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

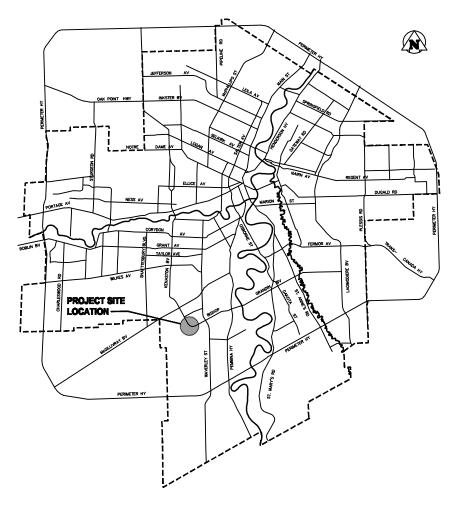
## DRAWING INDEX

DWG. NO.	DESCRIPTION	SHE	ΕT
C375=11-01 C375=11-02 C375=11-03 C375=11-03 C375=11-05 C375=11-06 C375=11-06 C375=11-08 C375=11-08 C375=11-10 C375=11-10 C375=11-11 C375=11-11	COVER SHEET & DRAWING INDEX SITE PLAN — EXISTING SITE PLAN — DEMOLITION & EXCAVATION SITE PLAN — DEMOLITION & EXCAVATION SITE PLAN — COMPLETION OF CULVERT SITE PLAN — COMPLETION OF FUTURE ROADS EXCAVATION & EARTHWORK DETAILS CONCRETE PLAN & ELEVATION CONCRETE SECTIONS & DETAILS REINFORCING DETAILS — SHEET 1 OF 3 REINFORCING DETAILS — SHEET 1 OF 3 REINFORCING DETAILS — SHEET 3 OF 3 REINFORCING DETAILS — SHEET 3 OF 3 REINFORCING DETAILS — SHEET 3 OF 3 REINFORCING BILL OF MATERIAL RETAINING WALL CONCRETE & REINFORCING	1 2 3 4 5 6 7 8 9 10 11 12 13	OF OF OF OF OF OF OF OF

## LIST OF ABBREVIATIONS

T. UM. PROX.	AT ALTERNATING ALUMINUM APPROXIMATE	IB I.F. LG. MK.	IRON BAR INSIDE FACE LONG MARK	LOCATION PREFIX H — HEADWALL
E. C. T.	AVENUE BEGINNING OF CURB BOTTOM BOTH WAYS	MAX. m MIN. mm No.	MAXIMUM METRE MINIMUM MILLIMETRE NUMBER	REINFORCING MARK NUMBERING SYSTEM
.P. · /W INC. INT.	CAST—IN—PLACE CONTRUCTION JOINT CENTRE LINE COMPLETE WITH CONCRETE CONTINUOUS	0.F. 0/C 0/0 PL. QTY.	OUTSIDE FACE ON CENTRE OUTSIDE TO OUTSIDE PLATE QUANTITY	eg: H 25 15  MARK SIZE OF BAR LOCATION PREFIX
ES.	CLEAR CRESCENT DOUBLE	R REINF. SHT.	RADIUS REINFORCEMENT SHEET	SECTION AND DETAILS
L. IG.	DIAMETER DETAIL DRAWING	S.U. THK. TYP.	SUBSTRUCTURE UNIT THICK TYPICAL	A SECTION NUMBER OR DETAIL LETTER

UNLESS NOTED OTHERWISE





RELEASED FOR CONSTRUCTION BY: MICHELLE HARMS, P.ENG. DATE:

# **Stantec Consulting Ltd.**

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WINNIPEG **MANITOBA** CONSULTANT DRAWING No. CITY DRAWING No. CAD FILE DRAWING No.

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