



THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT

OMAND'S CREEK CULVERT THROUGH ST. MATTHEWS AVE

REPLACEMENT OF EXISTING CULVERTS AND RELATED WORKS

DRAWING SET

BID OPPORTUNITY No. 801-2009

DRAWING LIST

CITY OF WPG. DWG. NUMBER	SHEET NUMBER	DRAWING DESCRIPTION
C331-09-01	1	COVER SHEET
C331-09-02	2	DEMOLITION, EXCAVATION AND TEST HOLES
C331-09-03	3	GENERAL ARRANGEMENT
C331-09-04	4	GENERAL ARRANGEMENT SECTIONS
C331-09-05	5	CONCRETE BOX CULVERT LAYOUT
C331-09-06	6	CONCRETE BOX CULVERT DETAILS 1 OF 3
C331-09-07	7	CONCRETE BOX CULVERT DETAILS 2 OF 3
C331-09-08	8	CONCRETE BOX CULVERT DETAILS 3 OF 3
C331-09-09	9	WINGWALL LAYOUT AND DETAILS
C331-09-10	10	ROAD CONSTRUCTION DETAILS
C331-09-11	11	SEWER PROFILE
C331-09-12	12	WATERMAIN RENEWAL
C331-09-13	13	ROADWAY RESTORATION PLAN AND PROFILE

GENERAL

1. DESIGNED IN ACCORDANCE WITH CSA STANDARD S6-06 CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC).

VEHICULAR LIVE LOADING PER CSA S6-06
1. CL-625

STRUCTURAL CONCRETE
1. CONCRETE $f'_c=35\text{MPa}$ @ 28 DAYS

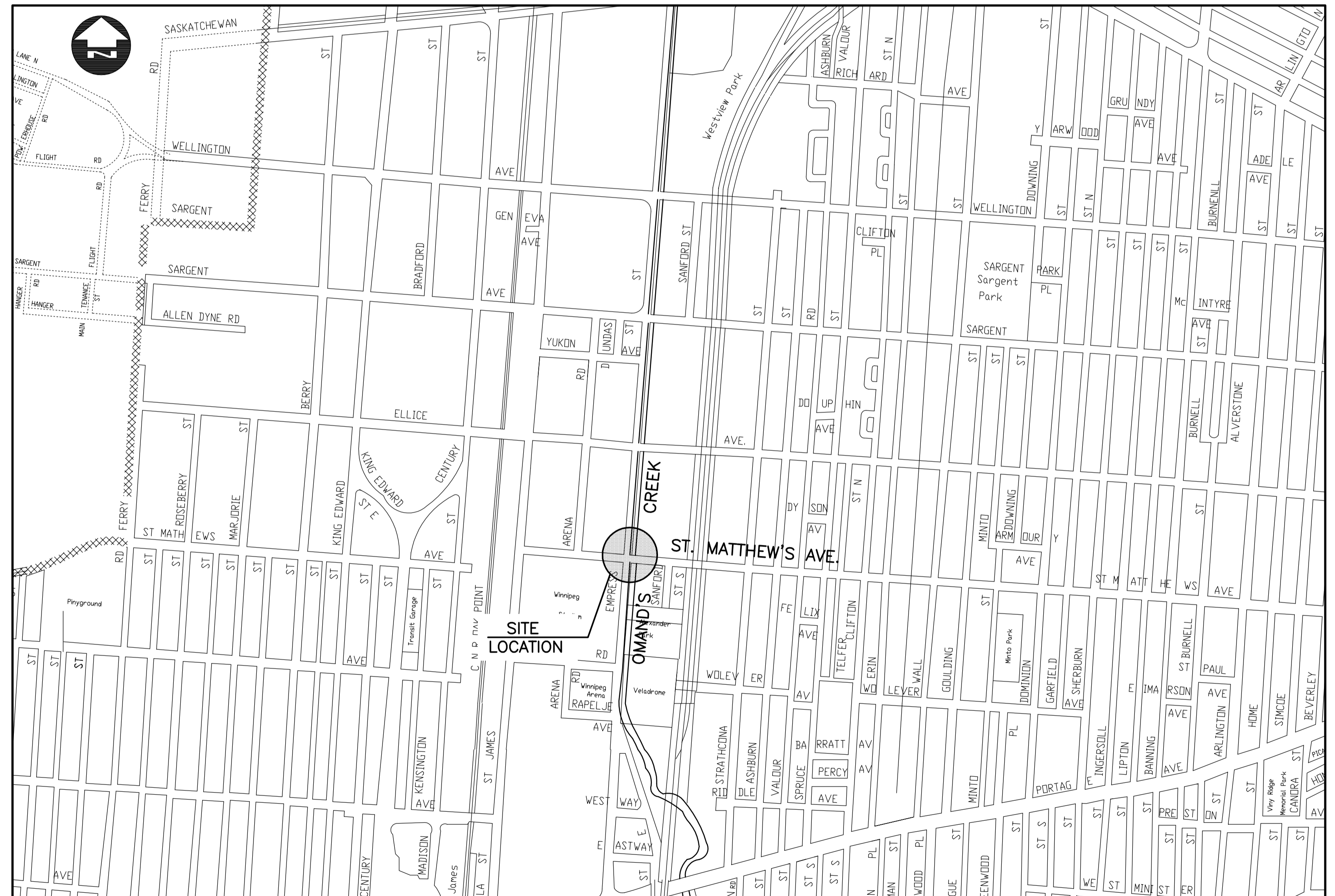
REINFORCING STEEL
1. REINFORCEMENT TO BE - CAN/CSA G30.18 GRADE 400W

HYDRAULIC DESIGN DATA

1. DESIGN DISCHARGE (1% FUTURE FLOOD)
 $Q=32.6\text{m}^3/\text{s}$
 $V=1.85\text{m}/\text{s}$
 $W.L.=231.94$

2. FISH PASSAGE (Q3D10)
 $Q=6.2\text{m}^3/\text{s}$
 $V=0.6\text{m}/\text{s}$
 $W.L.=230.54$

3. LOW FLOW
 $Q=0.5\text{m}^3/\text{s}$
 $V=0.1\text{m}/\text{s}$
 $W.L.=229.77$



LOCATION PLAN



CONSULTANT PROJECT NO. 08-8683 2000

DRAWING NUMBER: C331-09-01

COVER SHEET

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