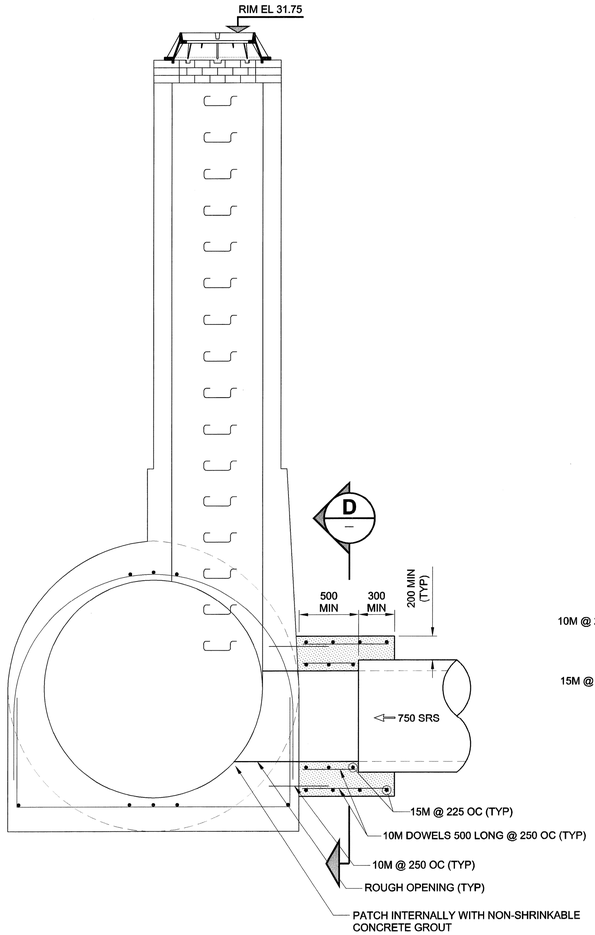
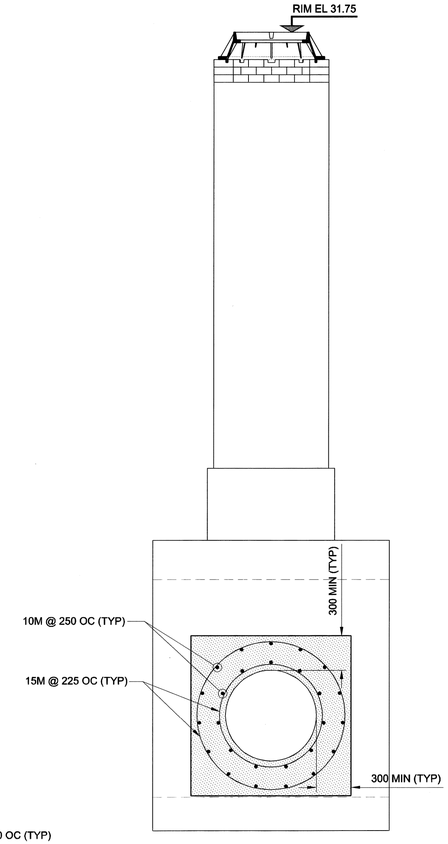
D SIZE 22" x 34" (559mm x 864mm)
PLOT: 06/11/29 2:52:39 PM
UMA FILE NAME: D265-177-04_01-C-F001_RX.dwg Saved By: kberard



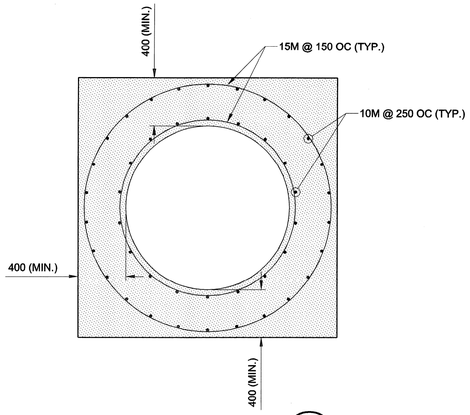
CIP MANHOLE CONNECTION DETAIL

0 0.25 0.5 0.75 m SCALE 1:25



SECTION D

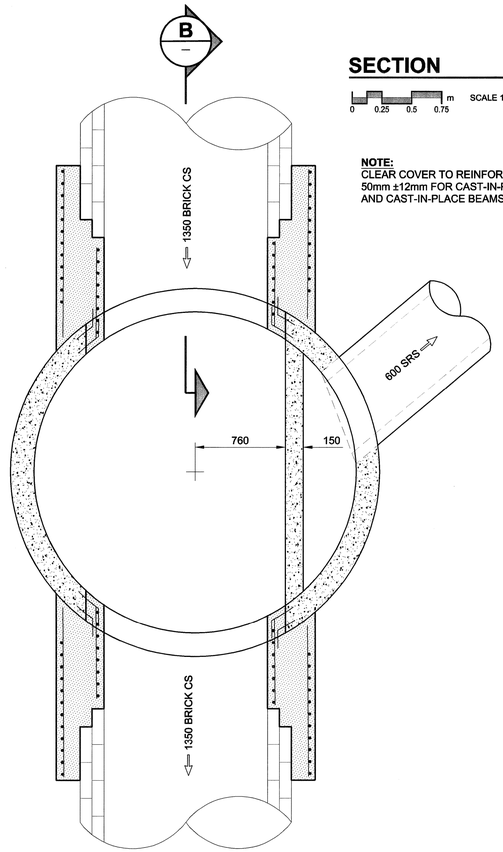
0 0.25 0.5 0.75 m SCALE 1:25



SECTION C

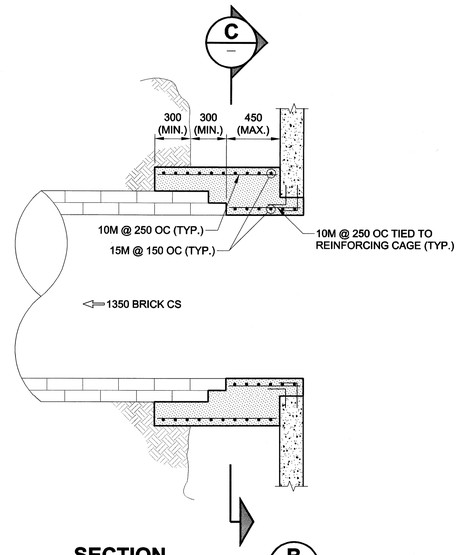
0 0.25 0.5 0.75 m SCALE 1:25

NOTE:
CLEAR COVER TO REINFORCING SHALL BE 50mm ±12mm FOR CAST-IN-PLACE SLABS AND CAST-IN-PLACE BEAMS AND WALLS.



SECTION A

0 250 500 750 m SCALE 1:25



SECTION B

0 0.25 0.5 0.75 m SCALE 1:25

1350 BRICK CONNECTION

MANHOLE 13 OVERFLOW DETAIL

0 0.25 0.5 0.75 m SCALE 1:25

TYPICAL MANHOLE REQUIREMENTS AS PER SD-010

LAP TABLE
LAP
500
700
870

HYDRAULIC CEMENT GROUT		EXPOXY GROUT
BAR	d = BAR DIA. +20mm	
10M	Le: 10M - 150mm	d AND Le IN ACCORDANCE
15M	15M - 200mm	WITH MANUFACTURER'S
20M	20M - 250mm	PRINTED SPECIFICATIONS
	25M - 300mm	

d = REINFORCING BAR DIAMETER
Le = LENGTH OF REINFORCING BAR

NOTES:

1. DRILL HOLE OF DIAMETER AND DEPTH AS REQUIRED.
2. CLEAN HOLE OF DUST & DEBRIS.
3. FILL HOLE WITH DOWELLING GROUT.
4. INSTALL REINFORCING BAR & WIPE AWAY GROUT.
5. SECURE DOWEL BAR FIRMLY IN POSITION & DO NOT DISTURB BAR FOR 3 HOURS AFTER INSTALLATION.

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 140/92 FOR DETAILS

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PROFILE	NEW
150 mm WM	WATERMAIN	150 mm WM		CURB STOP		150 mm WM	WATERMAIN	150 mm WM
	HYDRANT			REDUCER			HYDRANT	
⊗	VALVE			COUPLING			VALVE	
300 mm LDS	LAND DRAINAGE SEWER	300 mm LDS		ANODE		300 mm LDS	LAND DRAINAGE SEWER	300 mm LDS
250 mm WWS	WASTE WATER SEWER	250 mm WWS		HYDRO		250 mm WWS	WASTE WATER SEWER	250 mm WWS
○	MANHOLE			MTS			PAVEMENT CROWN	
□	CATCH BASIN			GAS			N/W PROPERTY LINE	
△	CURB INLET			TESTHOLE			S/E PROPERTY LINE	
	CULVERT			LAMP STANDARD			N/W GUTTER	
	PIPE ABANDONMENTS			TREE			S/E GUTTER	
	SURVEY BAR							

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. 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.

BM 35-043 ELEV 231.963m — N.W. Cor. Elgin Ave. & Ellen St., Tbt. in E. Conc. foundation of No. 425 Elgin Ave. (St. Andrew's Place), 2.5m S. & 0.15m below pre-cast stone siding of N.E. Cor. of Bldg.

NO.	REVISIONS	YY/MM/DD	BY
0	ISSUED FOR CONSTRUCTION	06/11/28	KMB

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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UMA | AECOM

DESIGNED BY	GEB	CHECKED BY	
DRAWN BY	ADL	APPROVED BY	
HOR. SCALE	1:250	RELEASED FOR CONSTRUCTION	
VERT. SCALE	1:50	DATE	
DATE	06/11/29		

APEGM
Certificate of Authorization
UMA Engineering Ltd.
No. 256 Expiry: April 30, 2007

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
A. NAGY
Nov. 29, 2006
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO. 15
D265-177-04

BID OPPORTUNITY NO. 690-2006

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

ALEXANDER/BANNATYNE COMBINED SEWER RELIEF CONTRACT 4

DETAILS AND SECTIONS

SHEET 15 OF 15
CITY DRAWING NUMBER
LD-3447 REV 0