



KEY PLAN
SCALE: NTS

GENERAL NOTES

- THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.
- UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY OTHERS. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. ALL UTILITIES TO BE LOCATED IN THE FIELD AND MODIFIED AS NECESSARY TO TC-E-10 AND TC-E-11 STANDARDS.
- ENVIRONMENTAL PROTECTION MEASURES AND PROCEDURES SHALL BE AS PER THE APPROPRIATE GOVERNMENT AND PROPERTY OWNER'S ENVIRONMENTAL GUIDELINES.
- CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. PROPOSED CULVERTS LENGTHS AND ELEVATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- ALL BUSH WITHIN GRADING LIMITS TO BE REMOVED BY CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING & REMOVING ANY TEMPORARY FACILITIES NECESSARY TO ACCESS THE SITE. INCLUDING, BUT NOT LIMITED TO, FENCES, GATES, CULVERT, GRANULAR, SILT FENCES & TRAFFIC CONTROL DEVICES.
- ALL ACCESS WAYS MUST BE MAINTAINED TO A LEVEL THAT WILL PERMIT PASSAGE BY MAINTENANCE, ENGINEERING AND OPERATIONS VEHICLES AT ALL TIMES.
- THE CONTRACTOR MUST LIMIT MOVEMENT OF CONSTRUCTION TRAFFIC TO WITHIN THE CONSTRUCTION LIMITS. ANY AND ALL DAMAGE TO EXISTING FACILITIES (INCLUDING, BUT NOT LIMITED TO, FENCES, PAVEMENT, CULVERTS ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- SURVEY CONTROL IS BASED ON UTM, ZONE 14 NAD 83. DUE CARE MUST BE MADE TO PREVENT DESTRUCTION OR ALTERATION OF SITE CONTROL. IF UNAVOIDABLE THE CONTRACT ADMINISTRATOR ON SITE MUST BE NOTIFIED IMMEDIATELY.
- ADDITIONAL CULVERTS TO BE FIELD LOCATED, AS DIRECTED BY THE CONTRACT ADMINISTRATOR AND EXISTING DRAINAGE PATTERNS TO REMAIN.
- ALL PROPERTY LINES ARE PROVIDED FOR INFORMATION PURPOSES ONLY.

DRAWING UNITS

ALL UNITS ARE IN METRIC (m) UNLESS NOTED OTHERWISE
TO CONVERT METRIC DIMENSIONS TO FEET DIVIDE BY 0.3048

ABBREVIATIONS

BC	BEGIN CURVE	RH	RIGHT HAND
BM	BENCHMARK	ROW / RW	RIGHT OF WAY
BVC	BEGIN VERTICAL CURVE	SC	SPIRAL TO CURVE
BVCE	BEGIN VERTICAL CURVE ELEVATION	STM	STORM SEWER
BVCS	BEGIN VERTICAL CURVE STATION	STA.	STATION
CB	CATCHBASIN	ST	SPIRAL TO TANGENT
CLF	CENTERLINE	TAN	TANGENT
CS	CHAIN LINK FENCE	TO	TURNOUT
CSP	CURVE TO SPIRAL	TS	TANGENT TO SPIRAL
CONC	CORRUGATED STEEL PIPE	T/R	TOP OF RAIL
CP	CONCRETE	TWP	TOWNSHIP
CULV	CONTROL POINT	U/G	TYPICAL
Dc	CULVERT	U/G	UNDERGROUND
DWG	DEGREE OF CURVE (CHORD DEFINITION)	XING	RAILWAY CROSSING
EC	DRAWING	VAR.	VARIABLE OR VARIABLE
EL. / ELEV.	END CURVE	VC	VERTICAL CURVE
EVC	ELEVATION	Ø	DIAMETER
EVCE	END VERTICAL CURVE	WWS	WASTE WATER SEWER
EVCS	END VERTICAL CURVE ELEVATION	WM	WATERMAIN
EXIST.	END VERTICAL CURVE STATION	S & C	SIGNAL AND COMMUNICATION
GRAN.	EXISTING	COW	CITY OF WINNIPEG
HDPE	GRANULAR		
INV.	HIGH DENSITY POLYETHYLENE		
LH	INVERT (PIPE or DITCH)		
MH	LEFT HAND		
MAX.	MANHOLE		
MID.	MAXIMUM		
MIN.	MIDDLE		
M	MINIMUM		
NIC	MILEAGE		
OG	NOT IN CONTRACT		
O/H or OH	ORIGINAL / EXISTING GROUND		
PI	OVERHEAD		
PROP	POINT OF INTERSECTION		
PS	PROPOSED		
PVI	POINT OF SWITCH		
PVIE	POINT OF VERTICAL INTERSECTION		
PVIS	POINT OF VERTICAL INTERSECTION ELEVATION		
	POINT OF VERTICAL INTERSECTION STATION		

LEGEND

FOR SHOOLFLY AND FINAL EMBANKMENT DRAWING

EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION	PROPOSED
	POWER SWITCH			CONTOURS AND LABELS DISPLAYED AT 0.5m INTERVALS	
	CROSSING PLANKS			TREE LINE, BUSHES & SHRUBS	
	CENTRELINE MAIN			GRAVEL ROADWAY	
	CENTRELINE SPUR			GRADING REQUIREMENTS (DOWNSLOPE)	
	RAIL REMOVE			OVERHEAD POWER LINE WITH POLE	
	RAIL RELIGN			OVERHEAD ON UTILITY CABLE	
	SURVEY CONTROL POINT			UNDERGROUND TELEPHONE LINE	
	MANHOLE			UNDERGROUND S & C CABLE	
	DITCH FLOW DIRECTION			UNDERGROUND POWER LINE	
	CULVERT			U/G FIBRE OPTIC LINE (CN / ROGERS)	
	CATCH BASIN			U/G FIBRE OPTIC LINE (BELL)	
	TELEPHONE PEDESTAL			PROPERTY LINE	
	LIGHT POLE			RAILWAY R/W	
	SECURITY FENCE			CONSTRUCTION EASEMENT	
	NORTH DITCH				
	SOUTH DITCH				

SURVEY CONTROL POINTS

CONTROL POINT	LOCATION	ELEVATION	NORTHING	EASTING
GBM_654006	GEODETIC BENCH MARK AT NW CORNER OF WAVERLEY STREET DIVERSION AT WILKES AVENUE.	232.796	5523226.155	630879.436
GBM_654008	GEODETIC BENCH MARK AT SE CORNER OF GRANT AVENUE AT CAMBRIDGE STREET.	232.899	5524205.657	631153.515

NOTE: SURVEY CONTROL IS BASED ON LOCALIZED COORDINATES.

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UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE

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. ELEV.	ISSUED FOR TENDER	DATE	BY
	17/01/09	DBW	
	NO. REVISIONS	DATE	BY



DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY
HOR. SCALE NTS	RELEASED FOR CONSTRUCTION
VERTICAL	

ENGINEER'S SEAL
CONSULTANT PROJECT NUMBER
16-3353

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

Waverley Street Underpass at CN Mile 3.89 Rivers Sub
Contract 2: Underpass Structure, Railworks,
Roadworks, Land Drainage Sewer, Pumping Station
and Landscaping Works

CITY DRAWING NUMBER
U-239-2016-C2-CR-002

SHEET 2 OF 55

CONSULTANT DRAWING NUMBER
C2-CR-002

MAIN STA. 5+462.047 to STA. 6+720.056