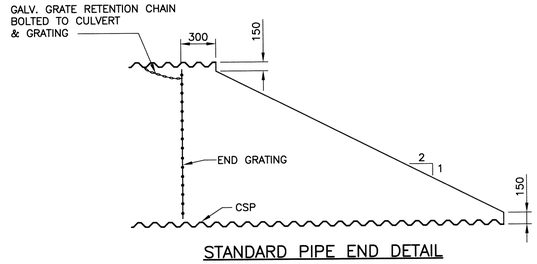
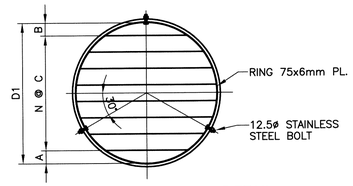


STANDARD PIPE END DETAIL

SCALE: N.T.S.

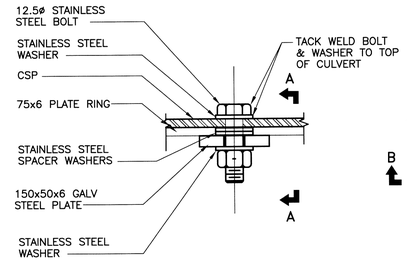


STANDARD GRATE DETAIL

SCALE: N.T.S.

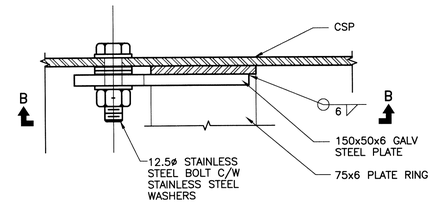
OUTFALL DEBRIS GRATE								
PIPE		GRATING						
DIAMETER D	MATERIAL	DIAMETER D1	BAR DIA.	A	B	C	N	WEIGHT (lbs)
600	CSP	588±	15	150	138	150	2	22

NOTE:
1. ALL PLATES AND BARS ARE CSA G40.21–300W.
2. ALL COMPONENTS ARE GALVANIZED.
3. ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE B8M



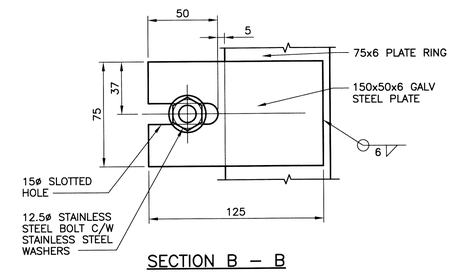
12.5ø STAINLESS STEEL BOLT DETAIL

SCALE: N.T.S.



SECTION A – A

SCALE: N.T.S.



SECTION B – B

SCALE: N.T.S.

NOTE: DEBRIS GRATES TO BE INSTALLED AT ALL CULVERT ENDS

STANDARD DEBRIS GRATE DETAILS

N.T.S.

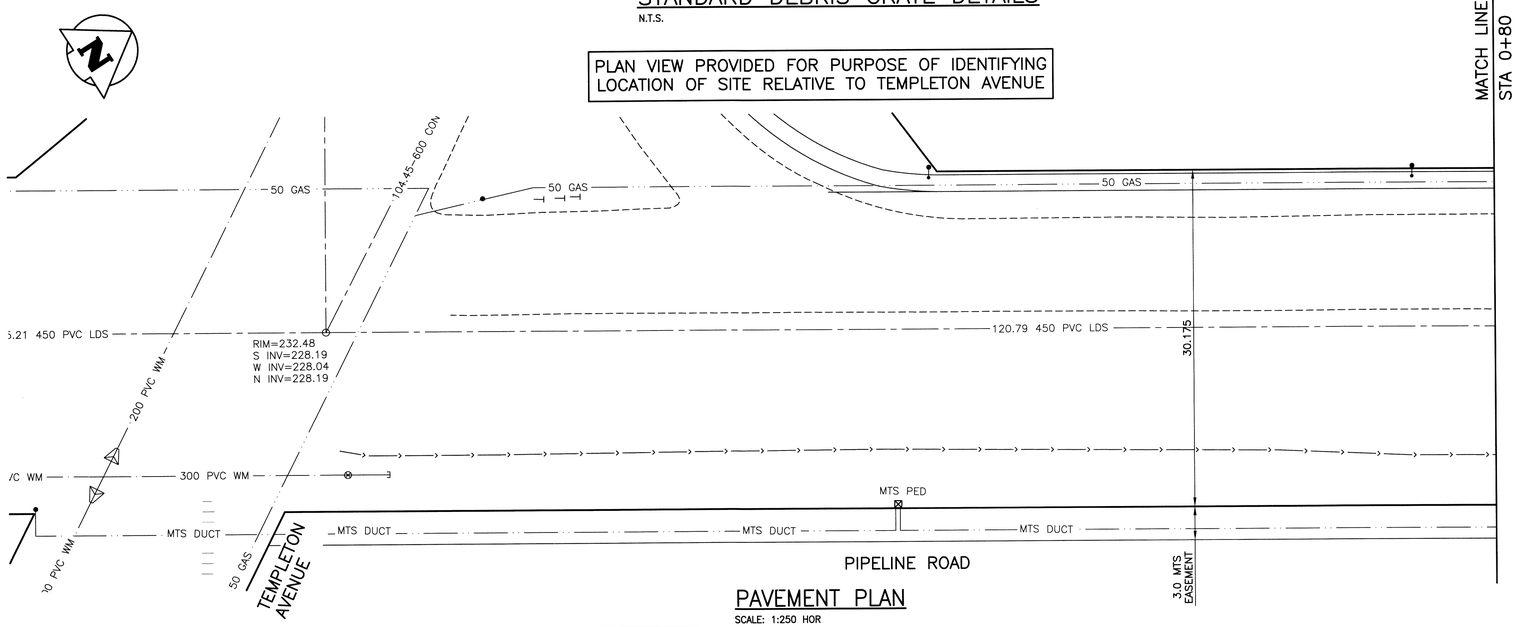
NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. STATION CHAINAGE IS BASED ON CENTRELINE OF PROPOSED ROADWAY.
3. REGRADE EXISTING PRIVATE APPROACHES AS REQUIRED.
4. CONTACT MANITOBA HYDRO TO LOWER FIBRE OPTIC CABLE WHERE REQUIRED.
5. REGRADE EXISTING DITCHES AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. RENEW EXISTING APPROACHES AS DIRECTED BY CONTRACT ADMINISTRATOR.
7. NEW CULVERTS TO BE INSTALLED UNDER ALL APPROACHES AS DIRECTED BY CONTRACT ADMINISTRATOR.
8. CHIP–SEAL SURFACE TREATMENT ON APPROACHES AND TRAFFIC LANE ONLY.

0 200 400 600 800mm
SCALE: 1:10m METRIC A1
1:20m METRIC A3

0 5.0 10.0 15.0 20.0m
SCALE: 1:250m METRIC A1
1:500m METRIC A3

PLAN VIEW PROVIDED FOR PURPOSE OF IDENTIFYING LOCATION OF SITE RELATIVE TO TEMPLETON AVENUE



PAVEMENT PLAN

SCALE: 1:250 HOR

WARNING

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
3. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
4. AVOID DAMAGE TO EXISTING MANITOBA HYDRO EASEMENT WITHIN THE LIMITS OF CONSTRUCTION.
5. TAKE PRECAUTION TO AVOID DAMAGE TO MTS UNDERGROUND CABLES.

PROPERTY LIMITS DELINEATION

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
KGS Group
No. 245

EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PROFILE	PROPOSED
300 LDS	LAND DRAINAGE SEWER	300 LDS		BACK OF CURB				
250 WWS	WASTE WATER SEWER	250 WWS		CONCRETE				
	GAS			GRAVEL ROAD				
	HYDRO			SHOULDER				
	M.T.S.			DITCH				
150 WM	WATERMAIN	150 WM		SIDEWALK				
	HYDRANT			PROPERTY LINE				
	VALVE			CULVERT				
	MANHOLE			GUY WIRE			℄ ROAD PROFILE	
	CATCH BASIN			TREE			W ℞ PROFILE	
	CURB INLET			SURVEY BAR			E ℞ PROFILE	
	LIGHT STANDARD			GEODETIC BENCHMARK			W DITCH PROFILE	
	POLES T–MTS H–HYDRO		231.334	ELEVATION	32.231		E DITCH PROFILE	

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. 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.

B.M. KGS BASE ELEV.
DRAWING BASED ON C.S.R.S. NAD 83 SYSTEM, UTM GRID

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	14/08/01	M.K.

KGS GROUP CONSULTING ENGINEERS

DESIGNED BY	MK	CHECKED BY	BJM
DRAWN BY	DMW	APPROVED BY	Aug 14
HOR. SCALE: 1:250 VERTICAL: 1:50		RELEASED FOR CONSTRUCTION:	
DATE	2014/06/03	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
M.KNYAZHER
Member
31158
REGISTERED PROFESSIONAL ENGINEER
Aug 01/2014

CONSULTANT DRAWING NO.
14–0107–010_001

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PROJECT TITLE
PIPELINE ROAD
PAVEMENT RECONSTRUCTION
TEMPLETON AVE TO MOLLARD AVE
TEMPLETON AVE TO STA 0+80

SHEET 01 OF 10
COMPUTER FILE NAME: PIPELINE–PLOT
CITY DRAWING NUMBER: 001

U:\FMS\14-0107-010\14-0107-010_CALL.dwg – Tab: 001 Plotted By: GLOEWEN 08/01/2014 [Fri 1:00pm]