

SLIP RAMP EAST CONTROL LINE		
TS=1+141.045	N 10470.009	E 10010.676
SC=1+181.045	N 10509.953	E 10012.692
CS=1+228.294	N 10556.694	E 10019.414
ST=1+268.294	N 10595.588	E 10028.735
TS=1+373.704	N 10697.671	E 10055.007
SC=1+443.704	N 10762.619	E 10080.081
CS=1+503.516	N 10799.203	E 10126.273
ST=1+573.516	N 10808.734	E 10195.237
STA=1+623.516	N 10809.773	E 10245.226

CIRCULAR CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C114	400.000	47.249	23.652	6°46'04"
C127	100.000	59.812	30.831	34°16'12"
C128	105.000	60.148	31.015	33°22'00"

SPIRAL TABLE				
SPIRAL	LENGTH	THETA	S TAN	L TAN
S22	40.000	2°51'53"	13.337	26.670
S23	40.000	2°51'53"	13.337	26.670
S24	40.249	2°50'49"	13.419	26.836
S25	70.000	20°03'13"	23.609	46.970
S26	71.721	19°34'05"	24.176	48.110
S27	70.000	20°03'13"	23.609	46.970
S28	82.831	22°35'58"	28.026	55.678

NOTES:
 -ALL STATIONS BASED ON EAST GUTTER CONTROL LINE.
 -NORTHINGS AND EASTINGS ARE BASED ON A LOCAL COORDINATE SYSTEM

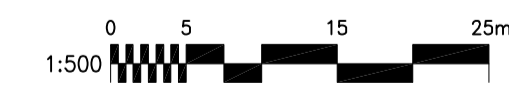
METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

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

BENCH MARK: BOLT IN 12.5m CONC. PILE, 2.4m N. OF S.L. OF WILKES AVE. (FENCE LINE), & 7m E. OF E. FACE OF 2nd TOWER W. OF THE MOST ELY. SET OF TRACKS OF C.P.R. LA RIVIERE SUB. DIV.



APEGM
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301 Expiry: April 30, 2006

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW
○	GAS	○	MANHOLE	●	CONCRETE PAVEMENT	▨	ASPHALT PAVEMENT	▩
□	MTS	□	CATCH BASIN/CATCH PIT	■	CONC.SIDEWALK/MED.SLAB	▧	PAVING STONE	▤
△	HYDRO	△	C & G INLET WITH BOX	▲	TOPSOIL & SOD	▥	GRAVEL	▦
◇	VIDEO	◇	TREE	◆	RAMP CURB	▧	REMOVAL	▨
⊕	TRAFFIC SIGNALS	⊕	TEST HOLE	⊗	GRASS	▩		
⊖	LAND DRAINAGE SEWER	⊖	PROPERTY LINE	⊘				
⊕	SANITARY/COMBINED SEWER	⊕	SURVEY BAR	⊙				
⊖	CATCHBASIN LEAD	⊖	GEODETIC MONUMENT	⊚				
⊕	WATERMAIN	⊕	FENCE	⊛				
⊖	SUBDRAIN	⊖	BACK OF CURB	⊜				
⊖	DITCH	⊖	ELEVATION	⊝				

LOCATION APPROVED UNDERGROUND STRUCTURES		DATE	
NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	06.03.03	GWM

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DESIGNED BY	VMM	CHECKED BY	WKB
DRAWN BY	TAG	APPROVED BY	GWM
HOR. SCALE:	1:500	AUTHORIZED BY:	R. FINGAS
VERTICAL:	N/A	DATE	06.03.03

CONSULTANT DRAWING NO. **113703042-H11**

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
Winnipeg ENGINEERING DIVISION

KENASTON UNDERPASS PROJECT
 KENASTON BOULEVARD RECONSTRUCTION

RAMP TO WILKES AVENUE
 HORIZONTAL GEOMETRY

SHEET **4** OF **52**
 CAD FILE DRAWING NUMBER **ku-04-665.dwg**
 CITY DRAWING NUMBER **P-3258-175**