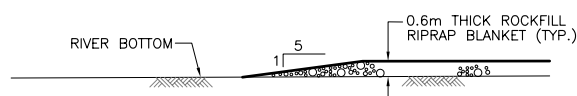
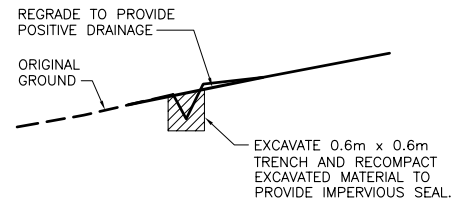


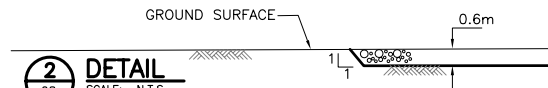
A SECTION



1 DETAIL
SCALE: N.T.S.
RIPRAP TRANSITION BELOW WATER



3 DETAIL
SCALE: N.T.S.
TENSION CRACK



2 DETAIL
SCALE: N.T.S.
RIPRAP TRANSITION SUB CUT ABOVE RSRL

LEGEND

UWRL UNREGULATED WINTER RIVER LEVEL
RSRL REGULATED SUMMER RIVER LEVEL

NOTES

- REGULATED SUMMER RIVER LEVEL (RSRL) REFERS TO REGULATION OF THE RED RIVER LEVEL TO APPROXIMATE EL. 223.75 m. AT THE CITY OF WINNIPEG JAMES AVENUE PUMPING STATION BY OPERATION OF THE ST. ANDREWS LOCK AND DAM.
- UNREGULATED WINTER RIVER LEVEL (UWRL) REFERS TO THE NATURAL UNREGULATED LEVEL OF THE RED RIVER WHEN THE ST. ANDREWS LOCK AND DAM IS NOT OPERATING. ACTUAL RIVER LEVELS AT THE SITE MAY VARY FROM THOSE SHOWN ON THE DRAWING.
- RIPRAP ABOVE EL. 223.7 m SHALL BE SUB-CUT INTO THE BANK AND PLACED FLUSH WITH THE ORIGINAL GROUND SURFACE. ALL EXCAVATED SOIL SHALL BE REMOVED OFF SITE. EXISTING CONCRETE RUBBLE AND/OR LIMESTONE RIPRAP SHALL BE SALVAGED AND BLENDED INTO THE NEW RIPRAP TO FORM A SMOOTH UNIFORM GRADE.
- INTERPRETATION OF THE STRATIGRAPHY BASED ON KGS GROUP TEST HOLE DRILLING, NOVEMBER 2008.
- REMOVE PIPE OUTLET TO ALLOW FOR ROCKFILL COLUMN INSTALLATION.
- TEMPORARILY REMOVE AND STOCKPILE EXISTING RIPRAP WITHIN LIMITS OF ROCKFILL COLUMNS. REPLACE RIPRAP TO EXISTING GRADE FOLLOWING INSTALLATION OF ROCKFILL COLUMNS.
- WHERE REQUIRED LOCALLY REVISE TOP OF RIPRAP ELEVATION TO BEST SUIT BARE OF EXISTING TREES.
- RIVERBANK ABOVE APPROXIMATE EL. 227.7m± SHALL BE REVEGETATED WITH TOPSOIL AND SOD TO MATCH EXISTING SOD AREA. BELOW EL. 227.7m± SHALL BE REVEGETATED WITH NATIVE GRASSES DOWN TO THE EXISTING VEGETATION ALONG THE SHORELINE.
- GEOTEXTILE TO BE PLACED SUCH THAT THE PIPE GRANULAR BACKFILL AND TOP OF CLAY CAP ARE COMPLETELY COVERED AND THE FABRIC EXTEND A MINIMUM OF 1.0m ONTO THE ADJACENT NATIVE SOILS.

WARNING

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
- SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.



150 WM	WATERMAIN	150 WM	HYDRO			
⊕	HYDRANT	⊕	M.T.S.			
⊙	VALVE	⊙	PROPERTY LINE			
300 LBS	LAND DRAINAGE SEWER	300 LBS	SURVEY BAR			
250 WWS	WASTE WATER SEWER	250 WWS	LIGHT STANDARD			
○	MANHOLE	●	HYDRO POLE			
□	CATCH BASIN	—	GUY WIRE			
▽	CURB INLET	○	SIGN			
+	JUNCTIONS	~	BUSH/TREE LINE			
—	CULVERT	—	FENCE			
—	GAS	—	ELEVATION	231.334	32.231	
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING
						LEGEND-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. 34-014 ELEV. 231.543	364 (654028) - TACHE AVE. & PROVENCHEUR AVE., TBLT. IN 7.6m CONC. PILE IN MEDIAN STRIP, BENEATH VALVE BOX, 6.4m E. OF THE E.L. OF TACHE AVE. & 24.4m S. OF THE N.L. OF PROVENCHEUR AVE. MONUMENT 0.2m B.G.L.		
0	ISSUED FOR TENDER	16/12/08	Rkg
NO.	REVISIONS	DATE	BY

KGS GROUP CONSULTING ENGINEERS & PROJECT MANAGERS

WINNIPEG (204) 896-1209
THUNDER BAY (807) 345-2233

DESIGNED BY BPA	CHECKED BY AMH
DRAWN BY DMW	APPROVED BY
HOR. SCALE: 1:250	
VERTICAL:	
DATE 08/12/08	RELEASED FOR CONSTRUCTION: DATE

ENGINEER'S SEAL

ORIGINAL SIGNED BY R.M. KEYON 16/12/08

CONSULTANT DRAWING NO. 08-0107-12_08

THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

2008 OUTFALL REPAIRS
AVENUE DE LA CATHEDRALE

SECTION AND DETAILS

SHEET 09 OF 09
CAD FILE DRAWING NUMBER RR_55.1_DETAILS_PLOT
CITY DRAWING NUMBER LD-5246