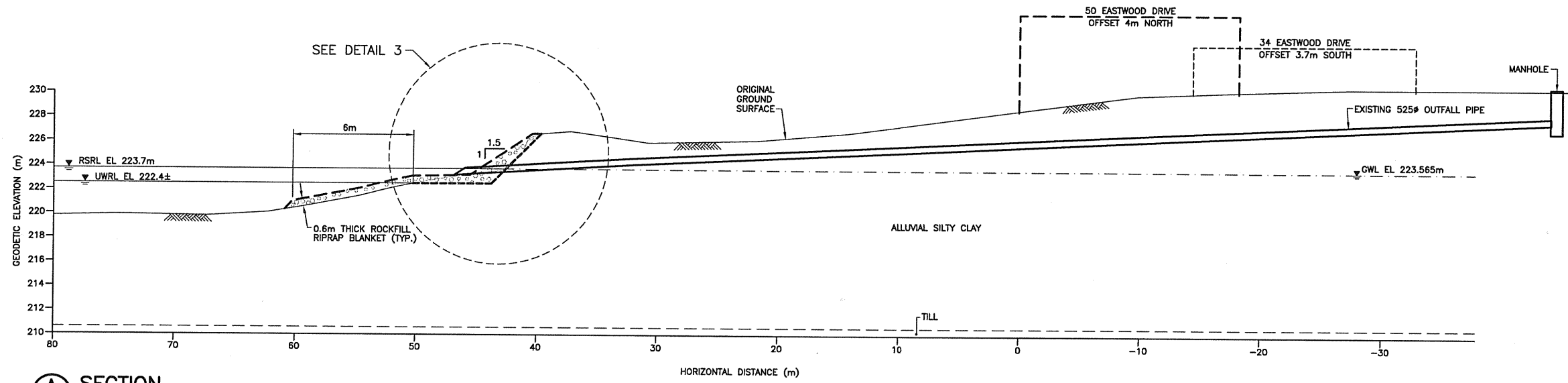
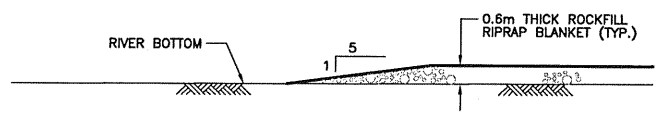


- LEGEND**
- UWRL UNREGULATED WINTER RIVER LEVEL
 - RSRL REGULATED SUMMER RIVER LEVEL
 - GWL GROUNDWATER LEVEL

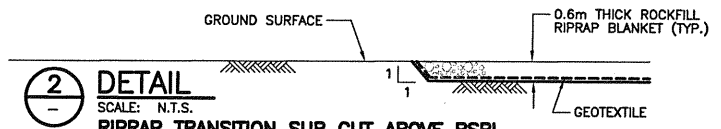
- NOTES:**
1. REGULATED SUMMER WINTER RIVER LEVEL (RSRL) REFERS TO REGULATION OF THE RED RIVER LEVEL TO APPROXIMATE EL. 223.7 m. AT THE CITY OF WINNIPEG JAMES AVENUE PUMPING STATION BY OPERATION OF THE ST. ANDREWS LOCK AND DAM.
 2. UNREGULATED WINTER RIVER LEVEL (UWRL) REFERS TO THE NATURAL UNREGULATED LEVEL OF THE RED RIVER WHEN THE ST. ANDREWS LOCK AND DAM IS NOT OPERATING ACTUAL LEVELS AT THE SITE MAY VARY FROM THOSE SHOWN ON THE DRAWING.
 3. RIPRAP ABOVE EL. 222.4m SHALL BE SUB-CUT INTO BANK AND PLACED FLUSH WITH ORIGINAL GROUND SURFACE. ALL EXCAVATED SOIL SHALL BE REMOVED OFF SITE, DEBRIS, DRIFTWOOD, TREES AND OTHER MATERIAL SHALL BE REMOVED OFF SITE.
 4. INTERPRETATION OF THE STRATIGRAPHY BASED ON KGS GROUP TEST HOLE DRILLING, OCTOBER, 2004.



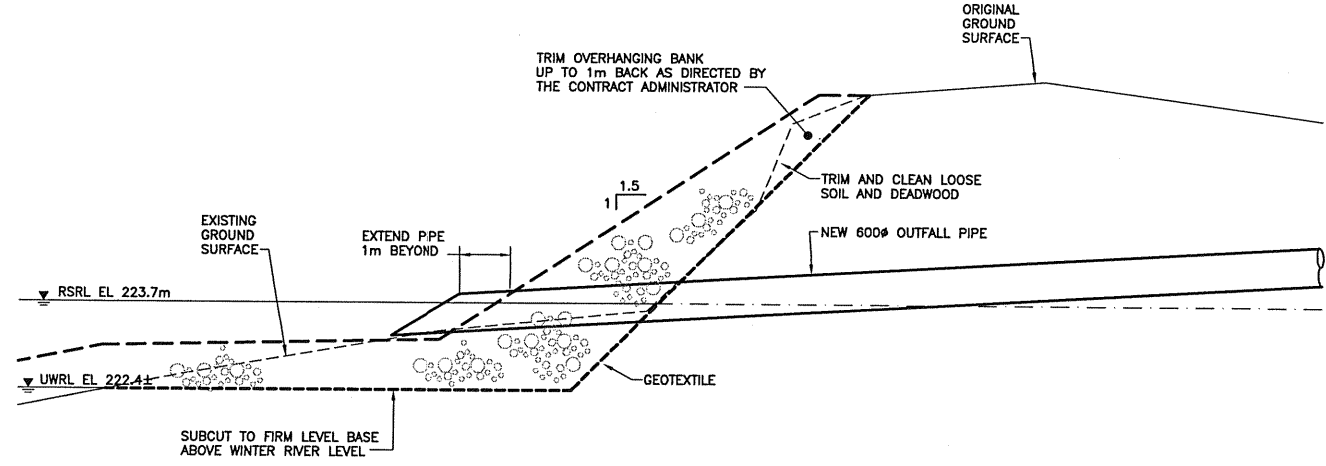
A SECTION
SCALE: 1:400 A3



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

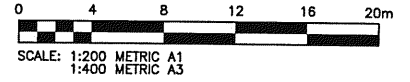


2 DETAIL
SCALE: N.T.S.
RIPRAP TRANSITION SUB CUT ABOVE RSRL



3 DETAIL
SCALE: 1:100 A3

APEGM
Certificate of Authorization
KGS Group
No. 245 Expiry: April 30, 2006



150_WM	WATERMAIN	150_WM	HYDRO	UWRL	UNREGULATED WINTER RIVER LEVEL
⊕	HYDRANT	⊕	M.T.S.	RSRL	REGULATED SUMMER RIVER LEVEL
⊙	VALVE	⊙	PROPERTY LINE	EL. 223.565m	ASSUMED STRATIGRAPHIC CONTACT
300_LDS	LAND DRAINAGE SEWER	300_LDS	SURVEY BAR		MEASURED GROUNDWATER LEVEL
250_WWS	WASTE WATER SEWER	250_WWS	LIGHT STANDARD		
○	MANHOLE	●	HYDRO POLE		
□	CATCH BASIN	■	GUY WIRE		
▽	CURB INLET	○	SIGN		
+	JUNCTIONS	+	BUSH LINE		
—	CULVERT	—	FENCE		
—	GAS	—	ELEVATION		
---		---	231.334		
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	PROPOSED	EXISTING
			LEGEND-PLAN		LEGEND-PROFILE
			PROPOSED		PROPOSED

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.

NO.	REVISIONS	DATE	BY

KGS GROUP CONSULTING ENGINEERS & PROJECT MANAGERS
WINNIPEG (204) 898-1209
THUNDER BAY (807) 345-2233

DESIGNED BY: RD	CHECKED BY: RKe
DRAWN BY: EC/ESM	APPROVED BY: RKe

DATE: 16/01/06

ENGINEER'S SEAL
R.M. KENYON
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

EASTWOOD OUTFALL
SHORELINE PROTECTION PLAN
SECTION A

SHEET 03 OF 06
CAD FILE DRAWING NUMBER 05-0107-11.03.2000.31-633
CITY DRAWING NUMBER LD-3269

CONSULTANT DRAWING NO. 05-0107-11.03.2000.31-633

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