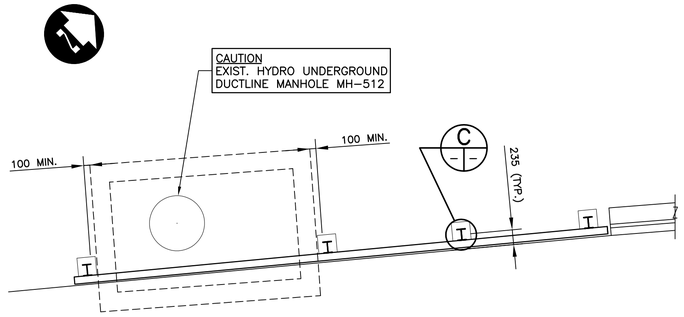
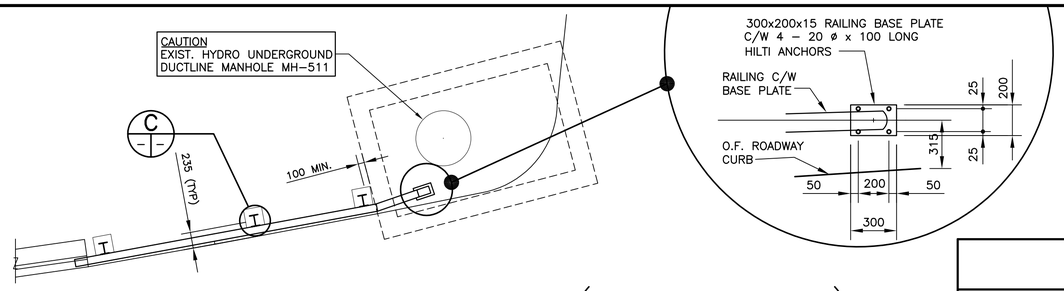
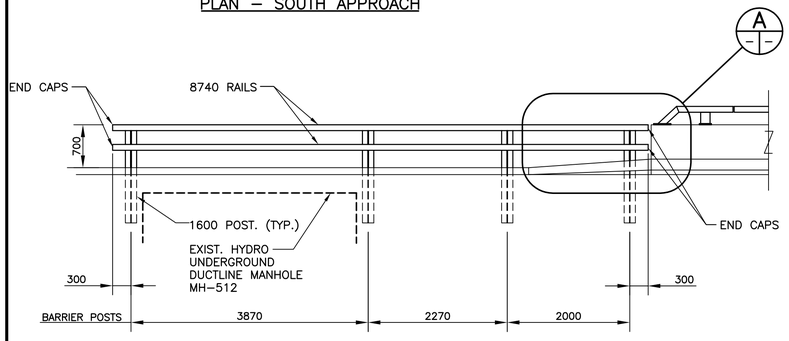


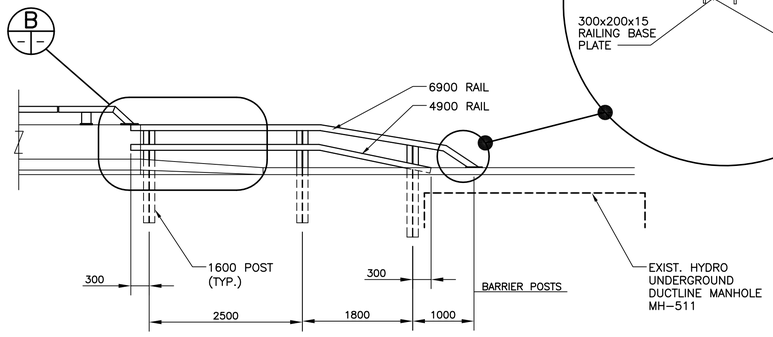
PLAN – SOUTH APPROACH



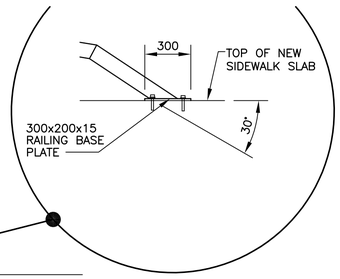
PLAN – NORTH APPROACH

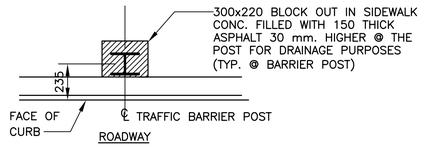


ELEVATION – SOUTH APPROACH



ELEVATION – NORTH APPROACH



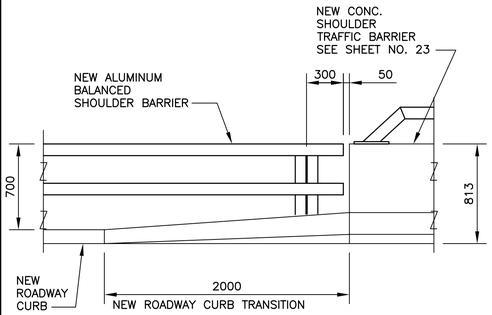


TYPICAL BARRIER POST BLOCK–OUT DETAIL

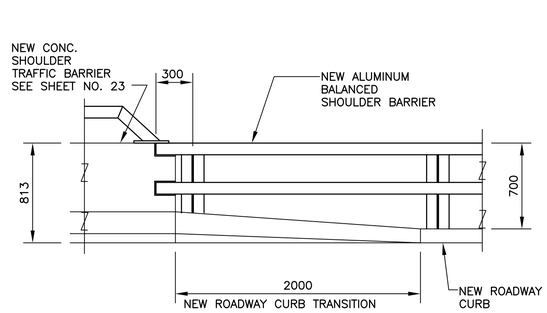
DETAIL C
1: 20

ALUMINUM BALANCED SHOULDER BARRIER LAYOUTS

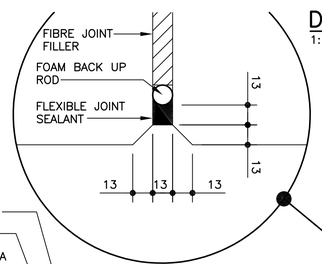
1: 50

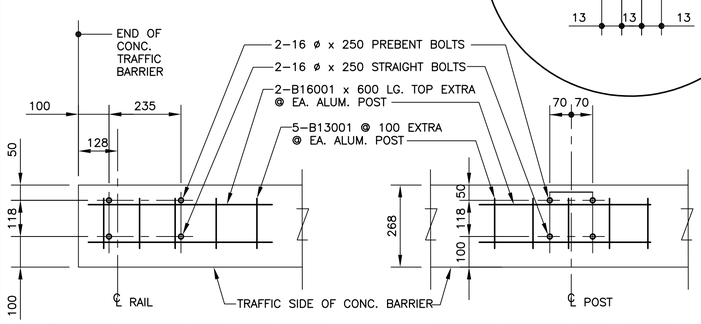


DETAIL A
1: 25



DETAIL B
1: 25



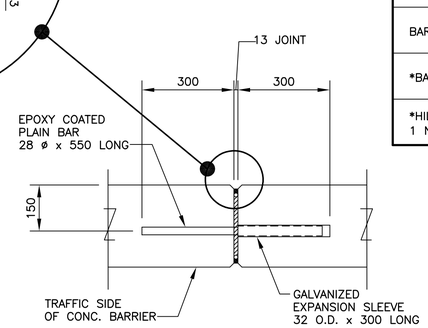


TRAFFIC BARRIER RAIL END POST

TRAFFIC BARRIER RAIL POST

TYPICAL ANCHOR BOLT LAYOUT
FOR ALUMINUM RAIL POST

1: 10



TYPICAL CONSTRUCTION JOINT DETAIL
FOR CONCRETE TRAFFIC BARRIER

1: 10

BILL OF MATERIAL
BALANCED ALUMINUM BARRIER (3)

ITEM	NO. REQ'D.	FROM SALVAGE	CITY SUPPLIED	CONTRACTOR SUPPLIED	CONTRACTOR FABRICATED FROM CITY SUPPLIED COMPONENTS	CONTRACTOR FABRICATED FROM CONTRACTOR SUPPLIED COMPONENTS
13–13 x 25 mm LONG S/S HEX HEAD CAP SCREW	56			56		
27 O.D. 14 mm I.D. x 2 mm THICK S/S WASHER	56			56		
RAIL CLAMP BARS	28			28		
BARRIER POST 1600mm	7		7			
RAIL END CAPS	4		4			
BARRIER RAIL 8740	2		2			
*BARRIER RAIL 6900	1				1	
BARRIER RAIL 4900	1				1	
*BARRIER RAIL BASE PLATE	1			1		
*HILTI ANCHOR BOLTS C/W 1 NUT & 1 WASHER EA. BOLT	4			4		

BILL OF MATERIAL
ALUMINUM TRAFFIC BARRIER RAIL (3)

ITEM	NO. REQ'D.	FROM SALVAGE	CITY SUPPLIED	CONTRACTOR SUPPLIED	CONTRACTOR FABRICATED FROM CITY SUPPLIED COMPONENTS	CONTRACTOR FABRICATED FROM CONTRACTOR SUPPLIED COMPONENTS
FOR CONCRETE MEDIAN TRAFFIC BARRIER						
TRAFFIC BARRIER RAIL POST (BR1)	44	42	2			
11430 RAIL	13	13				
7824 RAIL	1	1				
7380 RAIL	1	–	1			
457.2 STD. SPLICE BAR	13	13				
700 EXPANSION SPLICE BAR	2	2				
146 RAIL CLAMP BAR	88	84		4		
CAP SCREWS	232			232		
WASHERS	232			232		
SHIMS	AS REQ'D.					
FOR CONCRETE SHOULDER TRAFFIC BARRIER						
TRAFFIC BARRIER RAIL POST (BR1)	47		47			
11430 RAIL	13		13			
3620 RAIL	1		1			
4176 RAIL	1		1			
7455 RAIL	2		2			
2736 RAIL	1		1			
2450 RAIL	1		1			
RAIL END SECTIONS	2				2	
457.2 STD. SPLICE BAR	17		17			
700 EXPANSION SPLICE BAR	2		2			
146 RAIL CLAMP BAR	94			94		
CAP SCREWS	260			260		
WASHERS	260			260		
SHIMS	AS REQ'D.					

NO.	REVISIONS	DATE	BY
3	BILL OF MATERIALS REVISED	02/22/05	RAW
2	ISSUED FOR TENDER	01/31/05	NBG
1	ISSUED FOR CITY REVIEW	12/17/04	RAW

B.M. ELEV.

DESIGNED BY A.S.D.
DRAWN BY N.B.G. / K.C.
CHECKED BY R.A.W.
APPROVED BY
HOR. SCALE AS NOTED
VERTICAL
DATE DEC. 2004

DILLON CONSULTING

RELEASED FOR CONSTRUCTION
DATE

ENGINEER'S SEAL
PROVINCE OF MANITOBA
A. S. DERAJ
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NO.
04–3021–2000

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

MARYLAND TWIN BRIDGES
REHABILITATION PROJECT
WEST BRIDGE REHABILITATION

CITY DRAWING NUMBER
B108–05–24
SHEET 24 OF 33

BALANCED SHOULDER BARRIER
LAYOUT & DETAILS
MISCELLANEOUS DETAILS