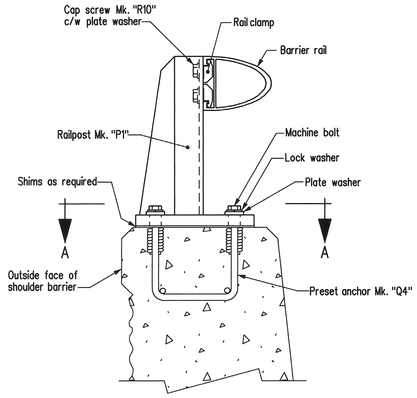
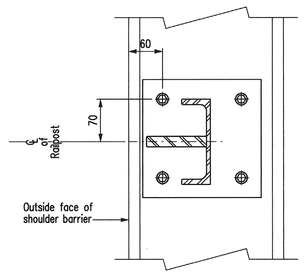


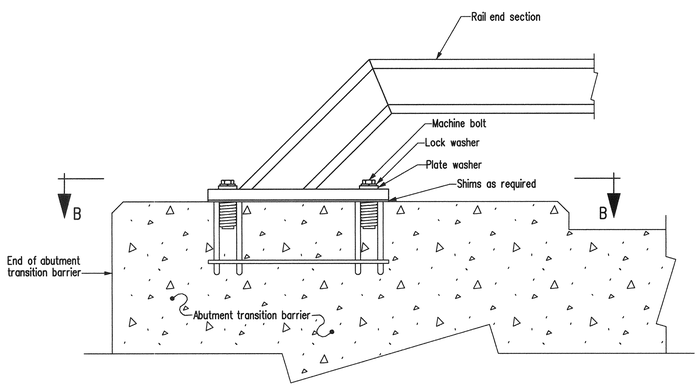
SECTION



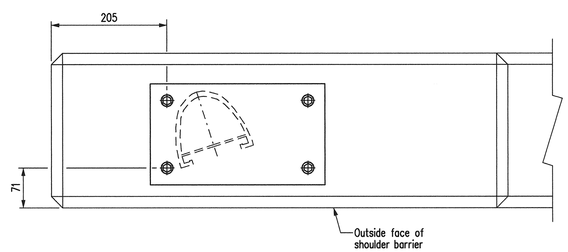
SECTION A-A

ERECTION DETAILS

For precast anchors Mk. "Q4" in shoulder barriers.



SECTION



SECTION B-B

ERECTION DETAILS

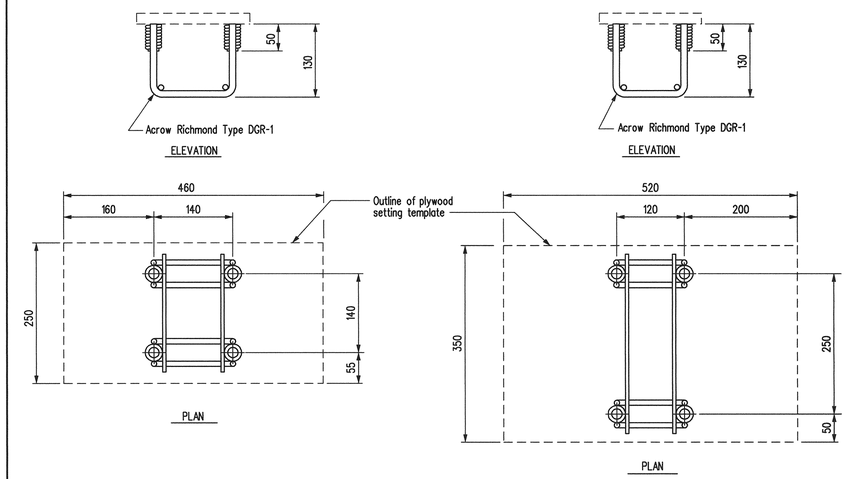
For precast anchors Mk. "Q5" in shoulder transition barriers.

BILL OF MISCELLANEOUS METAL

FOR BARRIER GUARDRAIL POST ANCHORS

Site No. 2924-00

MARK	No.	DESCRIPTION	MASS PER UNIT	TOTAL MASS
Q4	85	Preset anchor, Acrow Richmond Type DGR-1 or equivalent, galvanized, for shoulder barrier railposts	3.149	267.67
		(as detailed) c/w machine bolts GR.2, 19 ø x 70 long, plate and		
		lock washers and 13 mm plywood setting template		
Q5	4	Preset anchor, Acrow Richmond Type DGR-1 or equivalent, galvanized, for shoulder barrier end sections	3.214	12.86
		(as detailed) c/w machine bolts GR.2, 19 ø x 70 long, plate and		
		lock washers and 13 mm plywood setting template		
X4	14	Richmond insert Type EC-2FW c/w 19 ø x 38 long bolt, plate washer and lock washer (all galvanized)	0.513	7.18
			Total mass =	287.71 kg



PRESET ANCHOR Mk. "Q4"

PRESET ANCHOR Mk. "Q5"

BILL OF MISCELLANEOUS METAL

FOR ALUMINUM BARRIER RAIL (STAGE 1 & STAGE 2)

Site No. 2924-00

MARK	No.	DESCRIPTION	SIZE	MASS PER UNIT	TOTAL MASS
R10	480	Stainless steel hex. head cap screws	13 ø x 25 long hex. head c/w stainless steel washer	0.050	24.00
				Total mass =	24.00 kg

NOTE:

The Contractor shall paint the bottom surface of railposts, end plates and/or shims (surface in contact with concrete) with two coats of alkali resistant bituminous paint, each coat being 1 mm in thickness.

REVISIONS		
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA
March 5/10
S.S RIHAL
REGISTERED PROFESSIONAL ENGINEER

ALUMINUM BARRIER RAIL DETAILS

RECONSTRUCTION AND STRENGTHENING OF EXISTING BRIDGE
OVER ASSINIBOINE RIVER - CONTRACT THREE
ON P.T.H. No. 100 IN R.L.'S 72, 73 & 94
PARISH OF ST. CHARLES

CITY OF WINNIPEG

Manitoba
Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION BY:
Keith Eden March 15/10
DIRECTOR — DATE
STRUCTURES DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: M.B.C.	SCALE: 1:5
	CHECKED: S.S.R.	SHEET No. 112
DETAILS	BY: D.P.W.	
	CHECKED: S.S.R./J.J.	SITE No. 2924-00

...\292400_shoulder_barrier.dgn 2010-03-12 3:27:07 PM