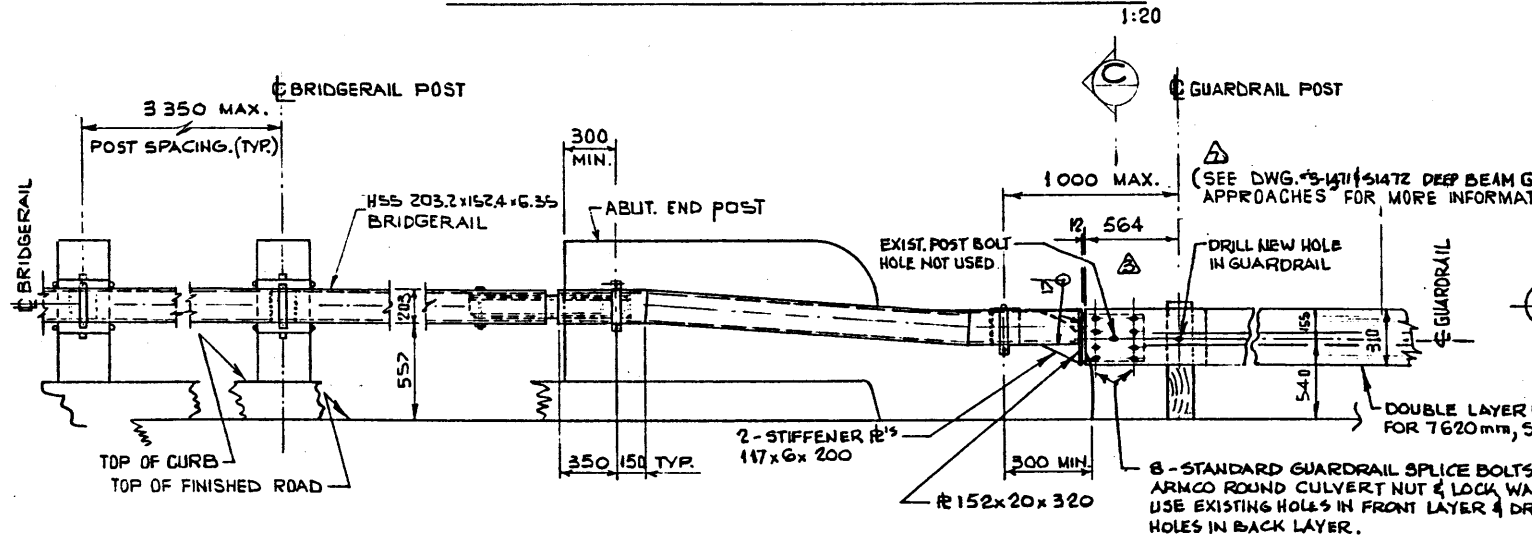
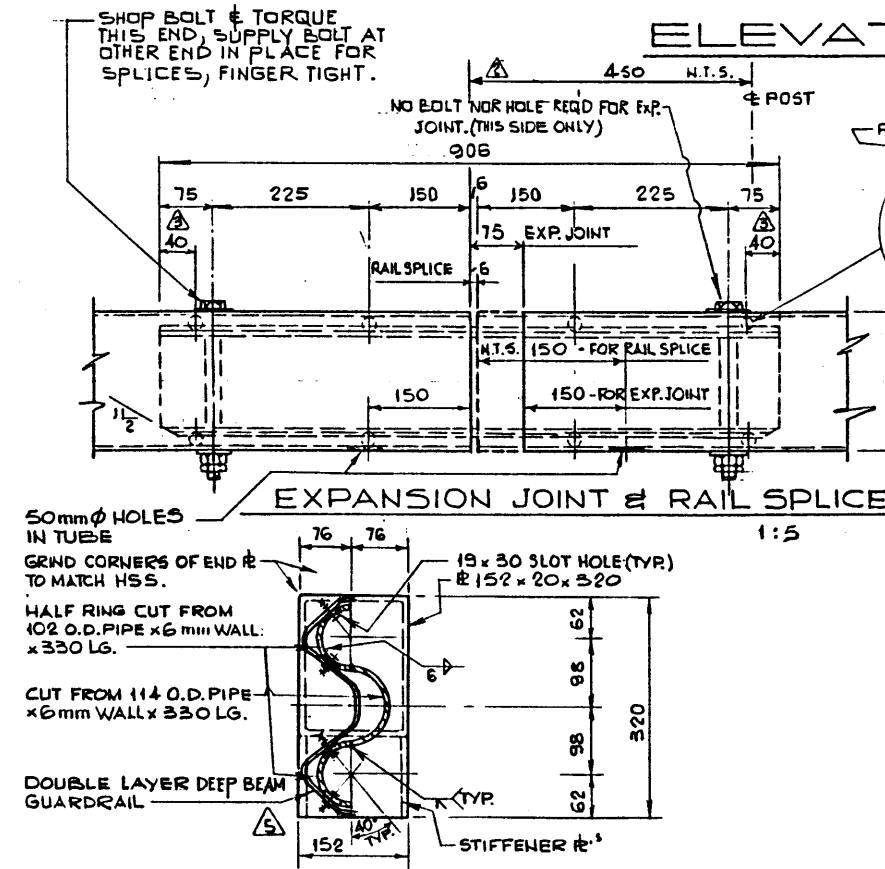


BRIDGERAIL LAYOUT - PLAN
1:20



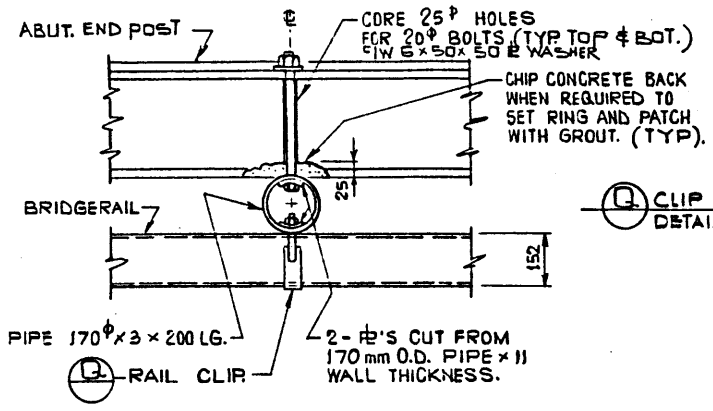
ELEVATION
1:20



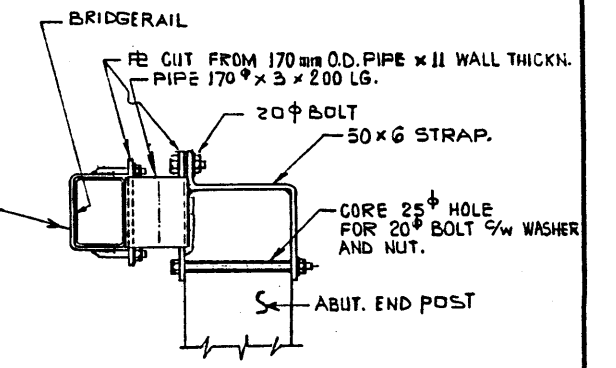
SECTION A
1:5

	139	64
5WF @ 16 STEEL POST	139	64
CONCRETE POST	330	192
H.S.S. RAIL	220	80
IN mm	X	Y

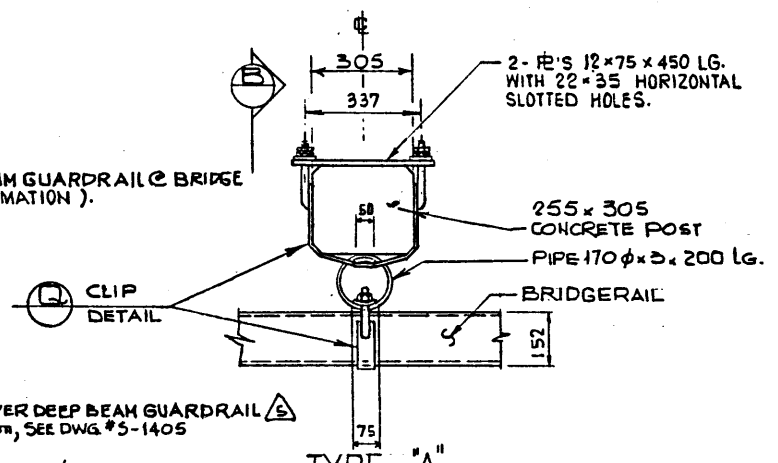
CLIP DIMENSION TABLE



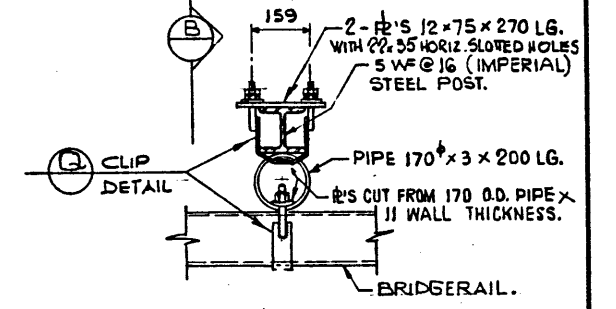
TYPE C
1:10



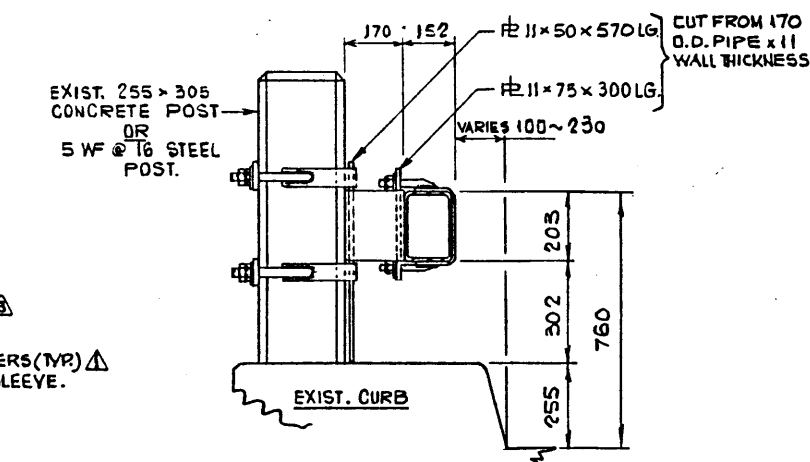
TYPE D
1:10



TYPE A
TYPICAL DETAIL AT CONCRETE POSTS
1:10



TYPE B
TYPICAL DETAIL AT STEEL POSTS
1:10



SECTION B
1:10

GENERAL NOTES

- FABRICATION IS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BRIDGE BRANCH SPECIFICATION B-312M.
 - ALL STEEL SHALL CONFORM TO C.S.A. 640.12M GRADE 300 W OR A.S.T.M. A36 EXCEPT STRUCTURAL TUBING TO CONFORM TO A.S.T.M. A500B.
 - ALL STEEL MATERIALS SHOWN ON THIS DRAWING SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. A123 & A153 AS APPLICABLE.
 - RAILING TO BE FABRICATED WITH TUBE SEAM DOWN.
 - HSS RAIL LENGTHS: MAXIMUM LENGTH MUST ALLOW SINGLE DIP GALVANIZING. MINIMUM LENGTH TO GO OVER 2 POSTS.
- DESIGN:
- C.S.A. CAN3-S6-M78 SPECIFICATION.
 - DESIGN LOAD FOR RAIL = 33 kN LATERAL FORCE AT E OF RAIL.
 - ALLOWABLE STEEL STRESS TAKEN 0.55 OF YIELD.
 - 170 Ø x 3 x 200 LONG PIPES WILL YIELD UNDER A HORIZONTAL FORCE OF 10 kN. THUS LIMITING THE FORCE THAT WILL BE APPLIED TO THE EXISTING POSTS.

NO.	DATE	DESCRIPTION	DESIGNED	CHECKED	DATE
04-06-21		REF. DVG. NO. POST SPACING	J.C.Y.		
04-04-13		SPEC. NO. IN GENERAL NOTES	J.R.C.		
03-10-12		GUARDRAIL & CLIP DIMENSIONS	J.C.Y.		
02-10-05		SPEC. NO. IN "GENERAL NOTES"	J.R.C.		
02-06-22		RAIL SPLICE & GUARDRAIL HSS RAIL CONNECTION	R.C.Y.		
02-04-15		DIMENSION ON RAIL SPLICE	R.C.Y.		
02-04-07		RAIL SPLICE & CLIP DETAIL	R.C.Y.		

APPROVED

CHIEF BRIDGE ENGINEER

Alberta TRANSPORTATION BRIDGE AND STRUCTURAL ENGINEERING BRANCH METRIC

RETROFIT BRIDGERAIL

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HPT NO.	SCALE	FILE NO.	SHEET	DWG. NO.
R.C.Y.	F.W. BUDA	01-12-11						SHOWN			S-1417