



GENERAL NOTES:

- DESIGN**
- AASHTO 1969 SPECIFICATIONS EXCEPT LOADING.
 - LOADING IS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 1970, SECTION 4.1.8.1
 - HORIZONTAL LOAD - 150 LB./LIN. FT. APPLIED AT TOP RAIL.
 - VERTICAL LOAD - 100 LB./LIN. FT. APPLIED AT TOP RAIL.
 - HORIZONTAL AND VERTICAL LOADS ARE APPLIED SEPARATELY.
- FABRICATION**
- ALL REQUIREMENTS OF BRIDGE BRANCH SPEC'S. FOR THE SUPPLY OF STRUCTURAL STEEL FOR BRIDGES (SPEC. NO. 187-64) SHALL BE MET.
 - ALL STEEL SHALL CONFORM TO THE CURRENT A.S.T.M. SPEC. A36 OR C.S.A. SPEC. G40.21 GRADE 44W EXCEPT STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A-500B AND ANCHOR BOLTS SHALL CONFORM TO A.S.T.M. A-307.
 - ALL MATERIALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE FOLLOWING A.S.T.M. SPECIFICATIONS:
 - RAILING AND POSTS.....A125.
 - BOLTS AND ANCHOR BOLT ASSEMBLIES.....A153.
 - ALL EXPOSED CUT TUBE ENDS SHALL BE GROUND SMOOTH.
 - RAIL SECTIONS SHALL BE FABRICATED IN LENGTH NOT EXCEEDING 30 FT. BUT WHERE POSSIBLE CONTINUOUS OVER AT LEAST 3 POSTS.
 - AT LEAST 2 POSTS REQUIRED IN RAIL SECTION EITHER SIDE OF AN EXPANSION JOINT, EG. AT ENDS OF BRIDGE.
 - BRIDGE TO BE CONSIDERED LEVEL FOR HANDRAIL FABRICATION UNLESS THE ROADWAY GRADE EXCEEDS 1%.
 - BARS & POSTS TO BE VERTICAL FOR ROADWAY GRADES OVER 1%.
 - POST BASE PLATE TO BE PLACED ON BEVEL FOR ROADWAY GRADES OVER 2%.
- ERECTION**
- ALL DIMENSIONS ARE MEASURED PARALLEL TO TOP OF RAIL AND ALONG CENTRELINE OF ANCHOR BOLT ASSEMBLIES.
 - LINE AND ELEVATION OF RAIL TO BE SET BY INSTRUMENT.

SUPERSEDED
 BY 51081-76
 MAR 73

DESIGNED R.W. KORNELSEN		DRAWN BY P. SZOTIS	DATE NOV. 1972	CHECKED BY <i>[Signature]</i>	DATE MAR 73	SYT. NO.	LOCATION	HWY. NO.	BOX #	FILE NO.	SHEET	DWG. NO. S-1081
REVISIONS NO. DATE DESCRIPTION BY 13 APR 73 2 1/4" x 1/4" WASHERS REPLACED. J.R.C. 16 DEC 73 STEEL SPECIFICATION WAS G. 40.21 J.R.C.												
APPROVED <i>[Signature]</i> BRIDGE ENGINEER						PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS AND TRANSPORT BRIDGE BRANCH VERTICAL BAR TYPE HANDRAIL						