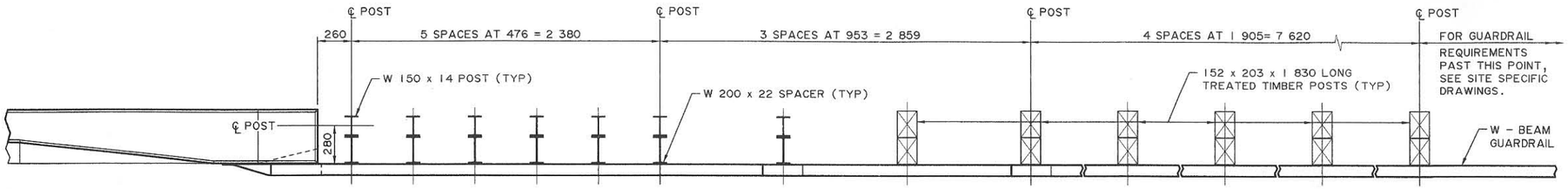
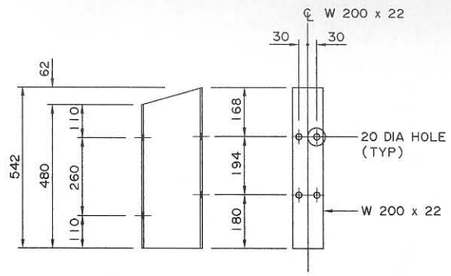
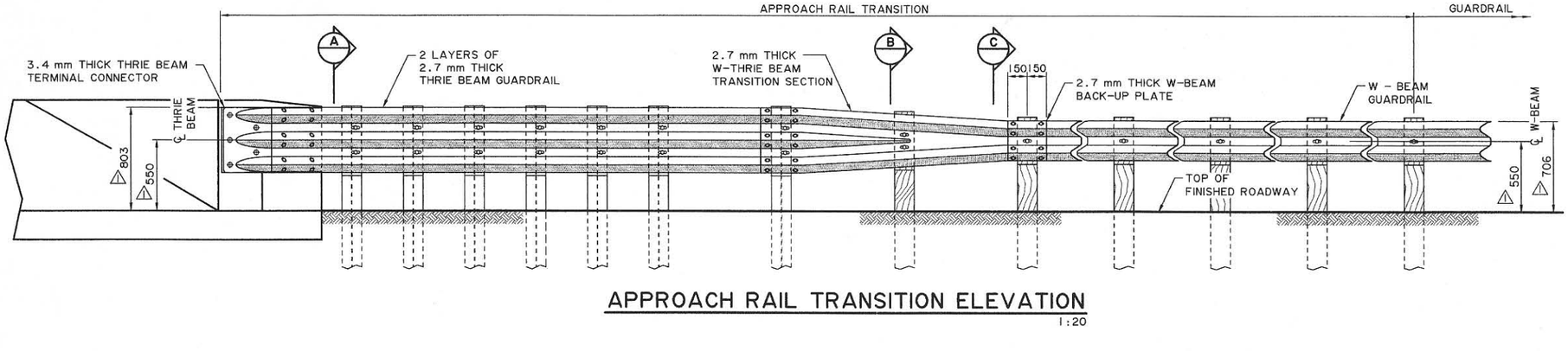


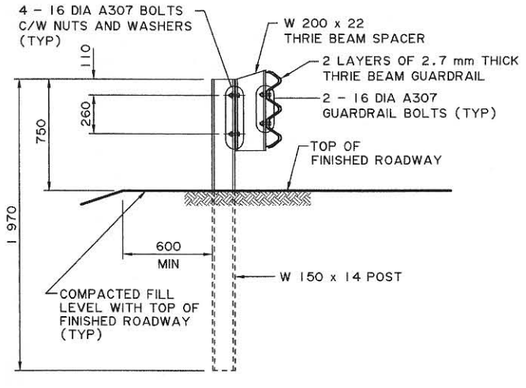
APPROACH RAIL TRANSITION PLAN
1:20



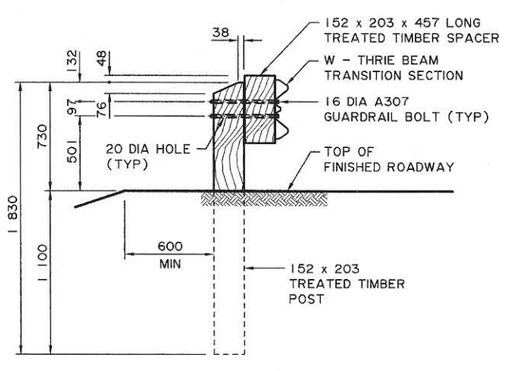
THRIE BEAM SPACER DETAIL
1:10



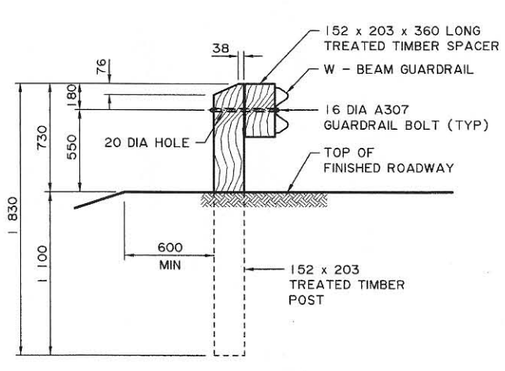
APPROACH RAIL TRANSITION ELEVATION
1:20



⚠ A SECTION
1:20



⚠ B SECTION
1:20



⚠ C SECTION
1:20

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. BARRIER CONFIGURATION IS BASED ON A CONFIGURATION THAT HAS BEEN CRASH TESTED AND MEETS THE REQUIREMENTS OF PERFORMANCE LEVEL 2 OF AASHTO GUIDE SPECIFICATIONS FOR BRIDGE RAILING, 1989.
3. DESIGN OF DECK REBAR SHALL BE CARRIED OUT ON A SITE SPECIFIC BASIS.

FABRICATION

1. APPROACH RAIL TRANSITION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 14 - GUARDRAIL.
2. ALL PLATE STEEL AND STRUCTURAL SHAPES SHALL CONFORM TO CSA G40.21 GRADE 300W, OR ASTM A36.
3. ALL BOLTS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE.
4. ALL W-BEAM AND THRIE BEAM GUARDRAIL (INCLUDING THRIE BEAM TERMINAL CONNECTOR AND W-THRIE BEAM TRANSITION SECTION) SHALL HAVE A MINIMUM YIELD STRENGTH OF 345 MPa.
5. TIMBER POSTS AND SPACERS SHALL BE COAST DOUGLAS FIR OR PACIFIC COAST HEMLOCK CONFORMING TO THE STRESS GRADE "SELECT STRUCTURAL POSTS AND TIMBERS" (NLGA PARAGRAPH 131 a).
6. ALL WELDING SHALL CONFORM TO CURRENT AWS SPECIFICATION D1.5.
7. ALL MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA G164 UNLESS NOTED OTHERWISE.
8. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa.
9. ALL CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
10. ALL REINFORCING STEEL SHALL HAVE A MINIMUM 50 mm CLEAR COVER UNLESS NOTED OTHERWISE.
11. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa.

ERECTION

1. LINE AND ELEVATION OF BARRIER SHALL BE SET BY INSTRUMENT AFTER DECK IS CAST.

● WORK THESE DRAWINGS TOGETHER: S-1650-00 AND S-1651-00

UMA Engineering Ltd.
Engineers, Planners & Surveyors

PERMIT TO PRACTICE
UMA ENGINEERING LTD.
PERMIT NUMBER: P 329
ORIGINAL SIGNED AND STAMPED
BY: ART WASHUTA
ON: NOVEMBER 21, 2000
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

DESIGNER — PROFESSIONAL ENGINEER ALBERTA — ORIGINAL STAMPED AND SIGNED — BY: R. J. RAMSAY — ON: NOV 21, 2000 — DATE

CHECKER — PROFESSIONAL ENGINEER ALBERTA — ORIGINAL STAMPED AND SIGNED — BY: D. B. SERINK — ON: NOV 21, 2000 — DATE

REV	DATE	REVISIONS	BY
6			
5			
4			
3			
2			
1	2007-02-14	APPROACH RAIL HEIGHT	RJV

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
ORIGINAL SIGNED BY
REG QUINTON

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
ORIGINAL SIGNED BY
TIM HAWNT
DATE NOV 22, 2000

Alberta INFRASTRUCTURE

PL-2 SINGLE SLOPE CONCRETE BRIDGE BARRIER APPROACH RAIL TRANSITION DETAILS

F831469

DATE	SHEET	DRAWING
2000-06-21	2 OF 2	S-1651-00

S1651X00.RV1.DGN