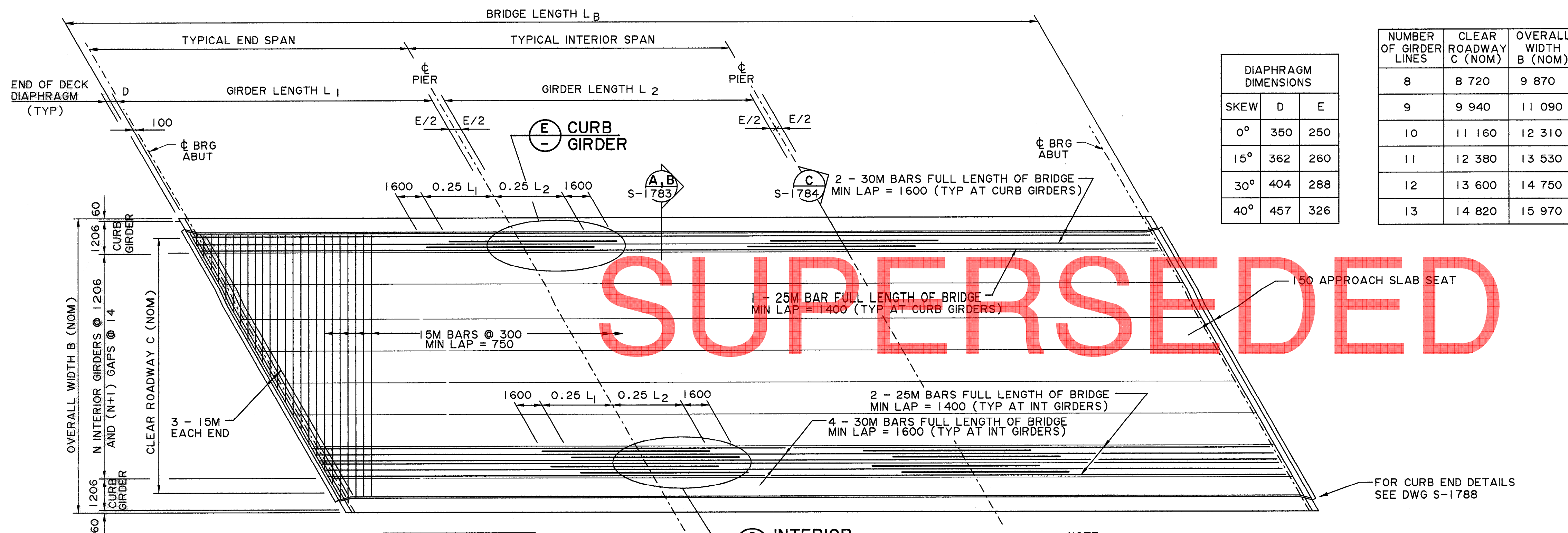


BRIDGE RAIL POST AND DECK DRAIN LAYOUT

1:100



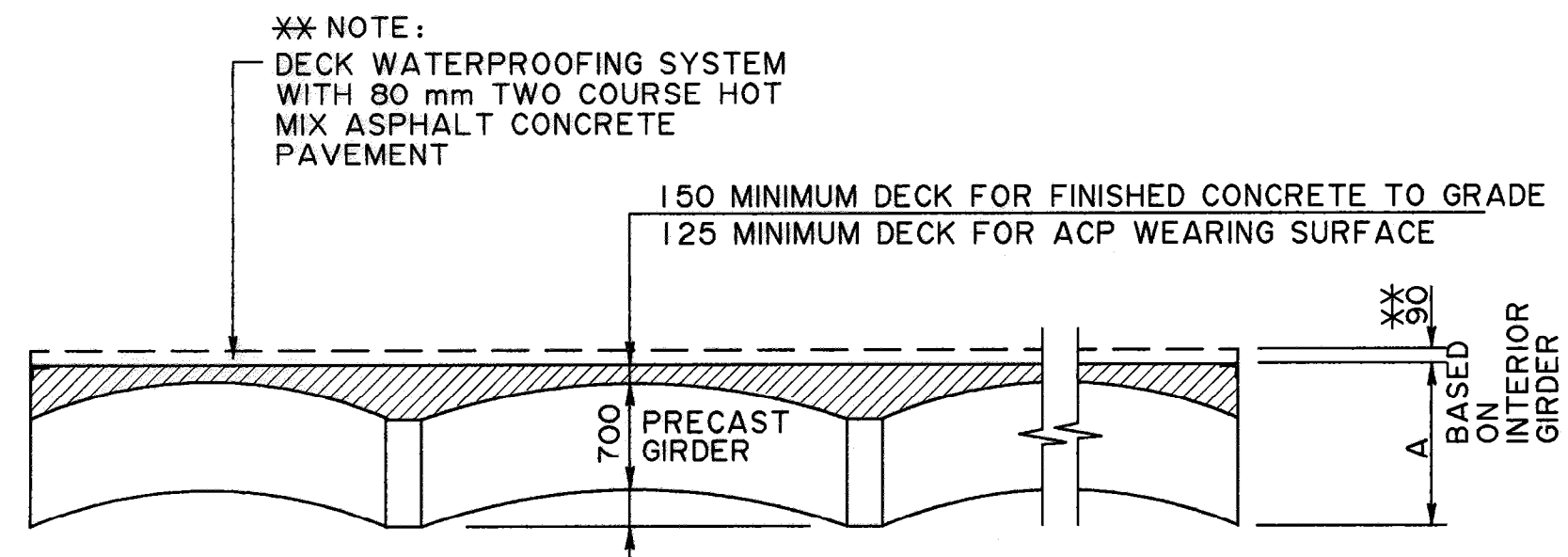
DIAPHRAGM DIMENSIONS

SKIEW	D	E
0°	350	250
15°	362	260
30°	404	288
40°	457	326

NUMBER OF GIRDER LINES	CLEAR ROADWAY C (NOM)	OVERALL WIDTH B (NOM)
8	8 720	9 870
9	9 940	11 090
10	11 160	12 310
11	12 380	13 530
12	13 600	14 750
13	14 820	15 970

DECK REINFORCING PLAN

1:100

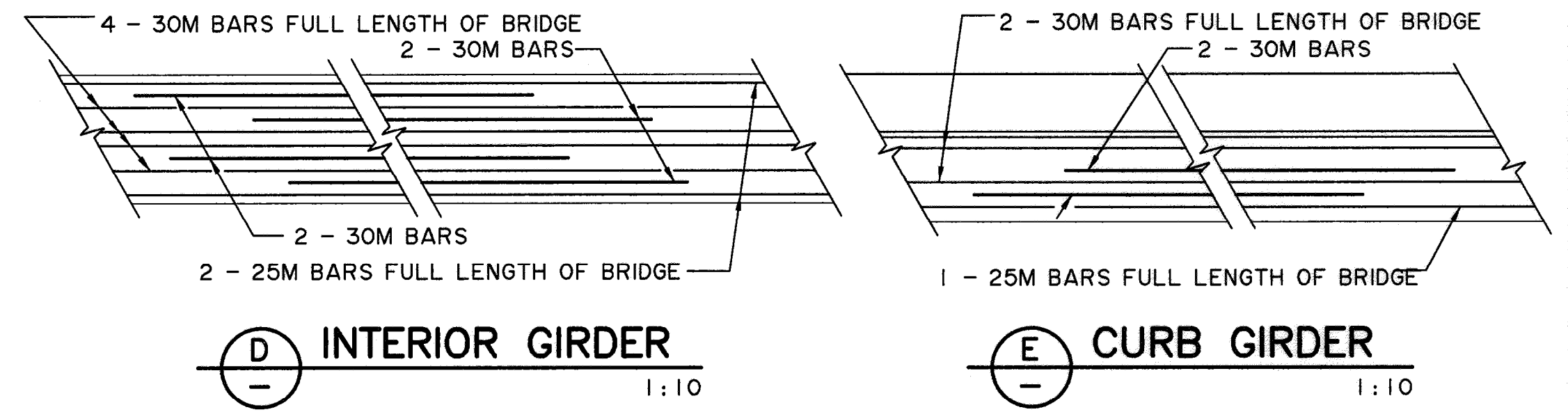


CAMBER DIAGRAM

NTS

CAMBER TABLE

DEFLECTION (-) OR CAMBER (+)	14 m GIRDER		16 m GIRDER		18 m GIRDER		20 m GIRDER	
	INTERIOR	CURB	INTERIOR	CURB	INTERIOR	CURB	INTERIOR	CURB
AT TRANSFER	5	8	6	11	13	19	18	25
CURB	-	-4	-	-7	-	-12	-	-18
CAMBER GROWTH BEFORE DECK	1	0	2	0	4	1	7	2
150 DECK	-3	-1	-5	-1	-8	-2	-12	-4
125 DECK+90 ACP	-4	-2	-7	-3	-11	-3	-17	-5
ACCUMULATIVE CAMBER (125+90ACP)	2	2	1	1	6	5	8	4



GENERAL NOTES

- ALL DRAWINGS ARE DIMENSIONED IN MILLIMETRES
- THIS DESIGN IS APPLICABLE FOR BOTH FINISHED CONCRETE TO GRADE AND ACP WEARING SURFACE ON ASPHALT MEMBRANE WATERPROOFING
- FOR DETAILS OF DECK WATER PROOFING SYSTEM WITH 80 mm TWO COURSE HOT MIX ASPHALTIC CONCRETE PAVEMENT SEE DWG. S-1443
- ALL REFERENCES TO OTHER STANDARD DRAWINGS REFER TO THE LATEST REVISION
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR BRIDGE CONSTRUCTION LATEST VERSION

DESIGN

- THIS DESIGN IS APPLICABLE TO SPAN ARRANGEMENTS BASED ON THE FOLLOWING COMBINATIONS OF GIRDER LENGTHS:

SPAN ARRANGEMENT TABLE

14-18-14 m	16-18-16 m	18 m	20 m
14-20-14 m	16-20-16 m	18-18-18 m	20-20-20 m
		18-20-18 m	

- STANDARD SKEW ANGLES: 0°, 15°, 30° & 40°
- CAN/CSA-S6-06 SPECIFICATIONS
- LIVE LOAD - CAN/CSA-S6-06 CL-800 WHEEL LINES PER GIRDER
- SLS/ULS - MID SPAN=0.66 SUPPORT=0.73
- FLS - MID SPAN=0.35 SUPPORT=0.38
- DEAD LOAD - SEE DWG S-1785 FOR DEAD LOAD TABLE

SITE SPECIFIC REQUIREMENTS

- THIS SET OF STANDARD DRAWINGS ARE TO BE WORKED TOGETHER WITH THE FOLLOWING SITE SPECIFIC DRAWINGS, WHICH SHALL BE PREPARED BY A CONSULTANT PRE-QUALIFIED BY THE DEPARTMENT TO DESIGN MAJOR BRIDGE STRUCTURES
 - GENERAL LAYOUT INCLUDING BRIDGE RAIL LAYOUT
 - SITE INFORMATION SHEET(S)
 - DECK REINFORCING PLAN, PIER AND ABUTMENT ELEVATIONS
 - DESIGN CONSULTANT SHALL BE RESPONSIBLE FOR CHECKING GIRDER SHOP DRAWINGS

DECK

- CAST-IN-PLACE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 4, CAST-IN-PLACE CONCRETE
- ALL CONCRETE SHALL BE CLASS HPC
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH SECTION 5 OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION AND SITE SPECIFIC DRAWINGS
- ALL CONCRETE CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE
- DECK CONCRETE SHALL BE PLACED CONTINUOUSLY WITHIN A 4-HOUR MAXIMUM TIME PERIOD. DECK INCLUDES DIAPHRAGMS
- ALL REINFORCING STEEL SHALL HAVE A 50 mm CLEAR COVER UNLESS NOTED OTHERWISE
- GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A123/A123M AND ASTM F2329
- FOR CONCRETE TO GRADE, DECK CONCRETE FINISH SHALL BE CLASS 6. CURB BLOCKOUT AND PIER DIAPHRAGM FINISHES TO MATCH PRECAST GIRDERS. SILANE SEALER SHALL BE APPLIED TO THE SURFACES SHOWN ON DWG S-1784
- FOR ACP WEARING SURFACE, DECK CONCRETE FINISH SHALL BE CLASS 4. CURB BLOCKOUT AND PIER DIAPHRAGM FINISHES TO MATCH PRECAST GIRDERS. SILANE SEALER SHALL BE APPLIED TO THE SURFACES SHOWN ON DWG S-1784
- STEEL FOR ANCHOR DOWELS AND MISCELLANEOUS IRON SHALL CONFORM TO CSA G40.21M-300W

2012-02-27 S-1782-08.RV1.DGN -DRAWN-BY-RWK-

<p>ISL Engineering and Land Services</p>	<p>PERMIT TO PRACTICE ISL Engineering and Land Services Ltd. ORIGINAL STAMPED AND SIGNED Signature: P. J. K. FAIRBRIDGE Date: 2008-08-15 PERMIT NUMBER: P 4741 The Association of Professional Engineers, Geologists and Geophysicists of Alberta</p>	<p>DESIGNER</p>	<p>CHECKER</p>	<p>RECOMMENDED DIRECTOR BRIDGE ENGINEERING</p> <p>TOM LOO</p>	<p>Alberta Transportation</p> <p>STANDARD SLC COMPOSITE BRIDGES SLC700 PRESTRESSED CONCRETE GIRDERS SUPERSTRUCTURE LAYOUT</p>
		<p>DATE: 2012-06-28</p>	<p>DATE: 2008-08-22</p>	<p>APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH</p> <p>ALLAN KWAN</p>	