

TABLE OF INTENTS – JOB # 2921			
DWG. NO.	DESCRIPTION OR NAME	REV.	DATE:
RSS-2921-01	GENERAL NOTES	1	JULY 15, 03
RSS-2921-02	GENERAL LAYOUT	1	JULY 15, 03
RSS-2921-03	SUPERSTRUCTURE LAYOUT	1	JULY 15, 03
RSS-2921-04	GIRDER AND LATERAL BRACE DETAILS	1	JULY 15, 03
RSS-2921-05	DIAPHRAGM DETAILS	1	JULY 15, 03
RSS-2921-06	ABUTMENT AND CURB DETAILS	1	JULY 15, 03
RSS-2921-07	DECK DETAILS	1	JULY 15, 03
RSP-1014-01	END DECK PANEL	1	JULY 15, 03
RSP-1014-02	INTERMEDIATE DECK PANEL	1	JULY 15, 03
RSP-1014-03	BALLAST WALL	1	JULY 15, 03
RSP-1014-04	PRECAST CONCRETE CAP BEAM	1	JULY 15, 03

TEMBEC
BLACKFOOT CREEK
STRUCTURE N2-135
16.459 METER L-100
NON-COMPOSITE BRIDGE



1145 Industrial Drive, Spallumcheen Industrial Park, Armstrong, B.C. V0E 1B6
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DRAWING NUMBER:

RSS-2921-00

REFERENCE DRAWINGS:

MOF STANDARD DRAWING NUMBER STD-E-050-10, STD-E-050-01 & 02 & STD-E-010-01A

DESIGN SPECIFICATIONS:

- 1/ DESIGN CODE: CAN/CSA-S6-88 MODIFIED IN ACCORDANCE WITH MOF FOREST SERVICE BRIDGE DESIGN AND CONSTRUCTION MANUAL
- 2/ FATIGUE: 500,000 CYCLES
- 3/ DEAD LOAD INCLUDES ALLOWANCE FOR 50mm THICK ASPHALT WEARING SURFACE.
- 4/ LIVE LOAD: BCFS L-100 - SEE DIAGRAM

STEEL SPECIFICATIONS:

- 5/ ALL STEEL PLATE SHALL COMPLY TO CSA-G40.21M-M98 GRADE A350AT CAT 3.
- 6/ ALL STEEL SECTIONS SHALL COMPLY TO GRADE 350A.
- 7/ ALL WELDING IN ACCORDANCE WITH C.S.A. W-59.
- 8/ UNLESS OTHERWISE SPECIFIED ALL BOLTS FOR STEEL WORK SHALL BE ASTM GRADE A325 TYPE 3.
- 9/ FLANGE AND WEB SHOP SPLICES SHALL BE UT OR RT INSPECTED.
- 10/ THE TOP FACE OF THE TOP FLANGE OF GIRDERS SHALL BE GROUND SMOOTH @ BUTT WELD LOCATIONS.
- 11/ NELSON STUDS TO CONFORM TO A.S.T.M. A108 GRADE 1015, 1018 OR 1020.
- 12/ PIPE PILES SHALL CONFORM TO ASTM A252 GRADE 2.

HARDWARE SPECIFICATIONS:

- 13/ FASTENERS SHALL CONFORM TO ASTM A307 GALVANIZED IN ACCORDANCE WITH CSA G164.

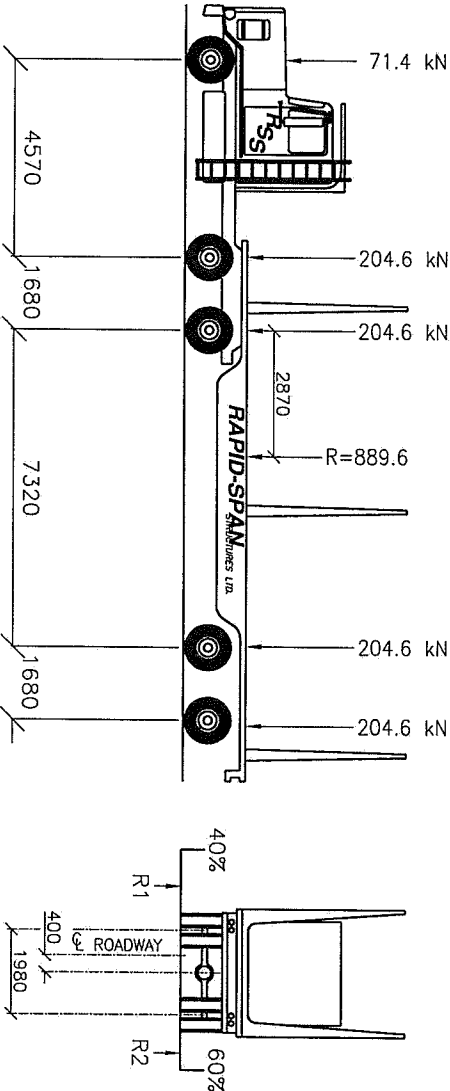
NOTES:

- 14/ UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm.
- 15/ UNLESS OTHERWISE SPECIFIED ALL HOLES TO BE 24mm DIA.

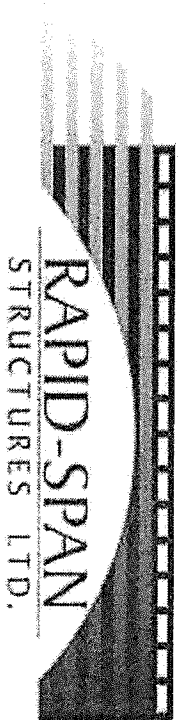
PRECAST CAN/CSA CONCRETE SPECIFICATIONS:

CONCRETE: IN ACCORDANCE WITH CAN/CSA-A23.1, MINIMUM COMPRESSIVE STRENGTH 35 MPa @ 28 DAYS, 17.5 MPa. FOR STRIPPING
ENTRAINED AIR = 4% TO 6%
CSA G30.18M GRADE 400R
REBAR: DECK TOP SURFACE - TRANSVERSE BROOM.
FINISH: OTHER TOP SURFACE - SMOOTH TROWEL.
ALL OTHERS - SMOOTH FORM FINISH
TOLERANCE: IN ACCORDANCE WITH CSA A23.4

LOADING DIAGRAM L-100 OFF HIGHWAY G.V.W. = 90 680 Kg.



1	JULY 15, 03	ISSUED FOR CONSTRUCTION	R.R.
0	JULY 14, 03	PRELIMINARY	R.R.
REV	DATE	DESCRIPTION	BY



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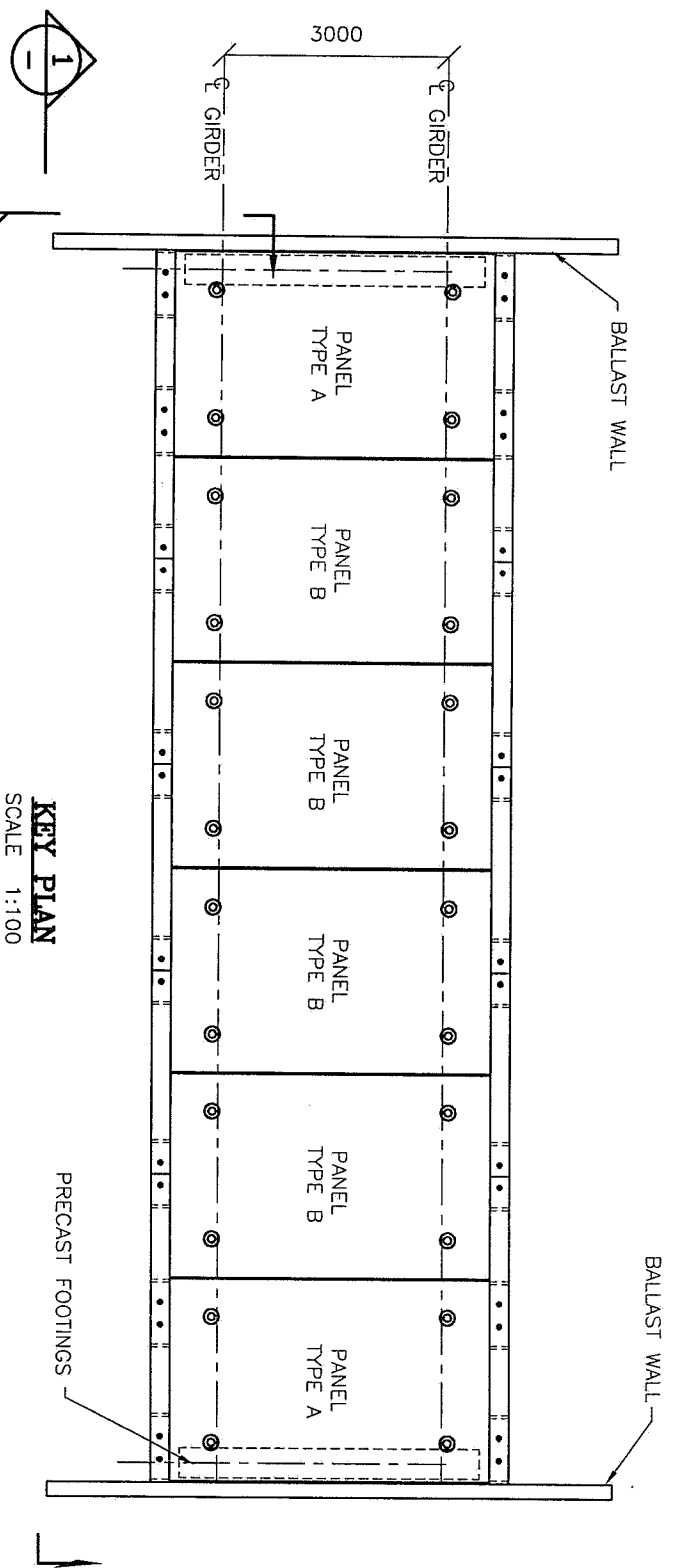
PROJECT:

TEMBEC
BLACKFOOT CREEK
STRUCTURE N2-135

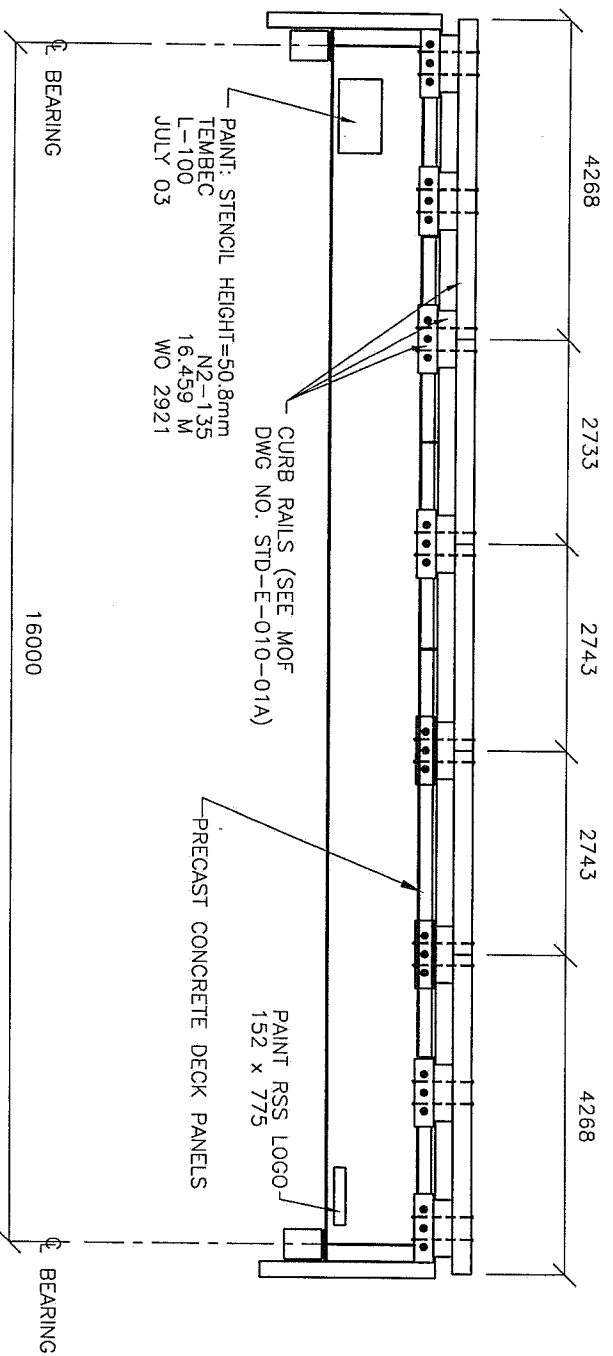
TITLE:

GENERAL NOTES

ENG BY: P.J. KING	DATE: JULY 14, 03	CAD FILE: TEMBEC	JOB NO: 2921
CAD BY: RON RIEMENS	DATE: JULY 14, 03	SCALE:	SHEET 1 OF 7
APP BY: P.J. KING	DATE: JULY 15, 03	DRAWING NUMBER:	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03	RSS-2921-01	



KEY PLAN
SCALE 1:100



CROSS SECTION
SCALE 1:100

BILL OF MATERIALS - JOB # 2921			
ITEM	QTY	DESCRIPTION OR NAME	WT. LBS. TOTAL
200			
201			
202			
203			
204			
205			
206			
207			
208			
209			
210			
211			
212			
213			
214			
215			
216			

REV	DATE	DESCRIPTION	BY
1	JULY 15, 03	ISSUED FOR CONSTRUCTION	RR
0	JULY 14, 03	PRELIMINARY	RR



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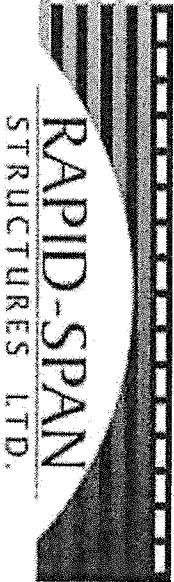
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PROJECT:			
TEMPEC BLACKFOOT CREEK STRUCTURE N2-135			
TITLE: GENERAL LAYOUT			
ENG. BY: P. J. KING	DATE: JULY 14, 03	CAD FILE: TEMPEC	JOB NO.: 2921
CAD BY: RON RIEMENS	DATE: JULY 14, 03	SCALE: AS SHOWN	SHEET 2 OF 7
APP BY: P. J. KING	DATE: JULY 15, 03	DRAWING NUMBER:	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03	RSS-2921-02	1

BILL OF MATERIALS - JOB # 2921			
ITEM	QTY	DESCRIPTION OR NAME	WT. LBS. TOTAL
300			
301			
302			
303			
304			
305			
306			
307			
308			
309			
310			
311			
312			
313			
314			
315			
316			

ESTIMATED WEIGHTS:
SINGLE GIRDER = 7,637 LBS.
SUPERSTRUCTURE = 16,787 LBS.

1	JULY 15, 03	ISSUED FOR CONSTRUCTION	RR
0	JULY 14, 03	PRELIMINARY	RR
REV	DATE	DESCRIPTION	BY



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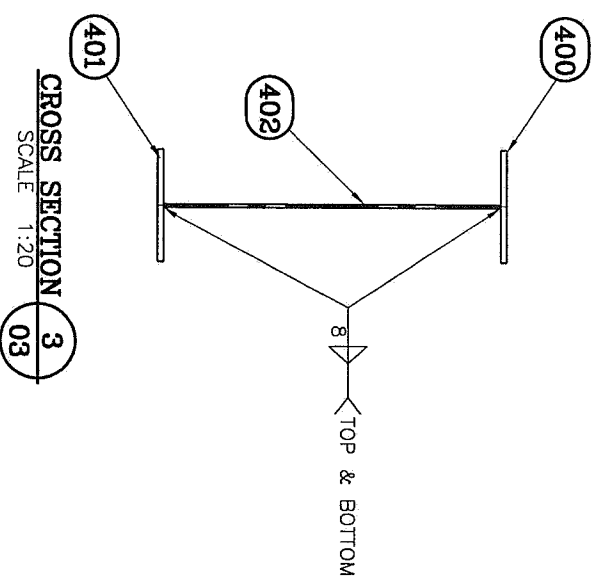
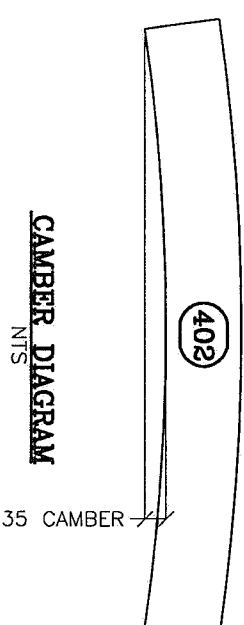
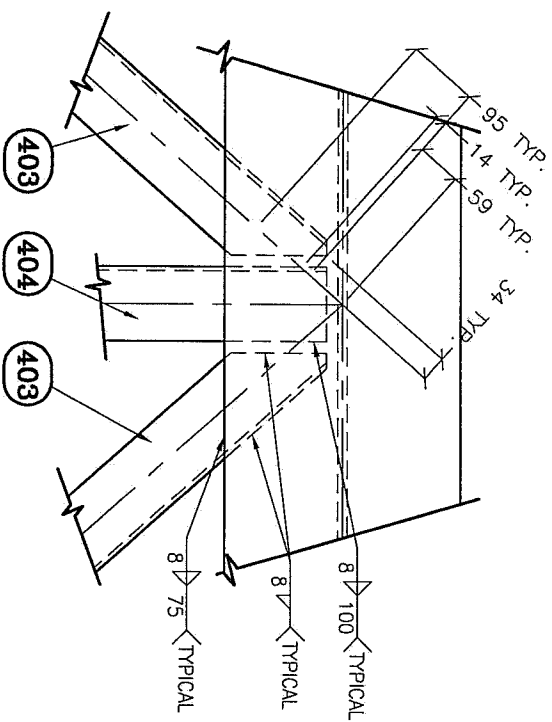
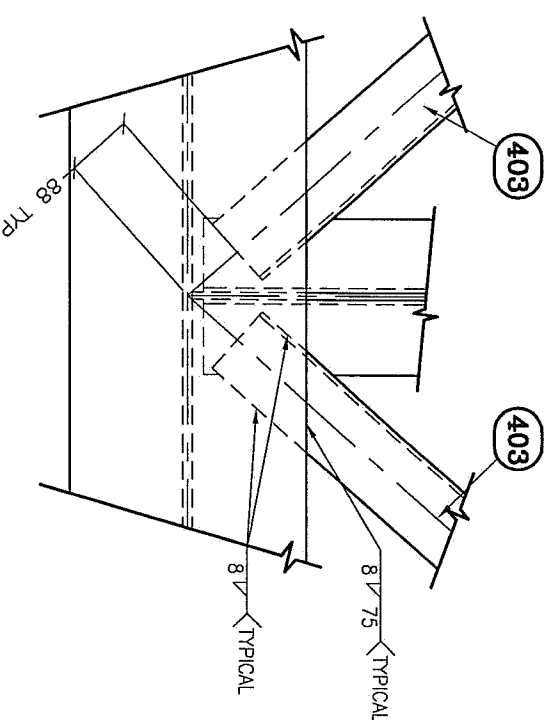
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PROJECT: TEMBEC
BLACKFOOT CREEK
STRUCTURE N2-135

TITLE: SUPERSTRUCTURE LAYOUT

ENG BY: P. J. KING	DATE: JULY 14, 03	CAD FILE: TEMBEC	JOB NO.: 2921
CAD BY: RON RIEMENS	DATE: JULY 14, 03	SCALE: AS SHOWN	SHEET 3 OF 7
APP BY: P. J. KING	DATE: JULY 15, 03	DRAWING NUMBER: RSS-2921-03	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03		1

BILL OF MERIALS - JOB # 2921

[illegible]

LATERAL BRACING DETAIL,

SCALE 1:10

03A

LATERAL BRACING DETAIL

SCALE 1:10

03B

1	JULY 15, 03	ISSUED FOR CONSTRUCTION	RR
0	JULY 14, 03	PRELIMINARY	RR
REV	DATE	DESCRIPTION	BY



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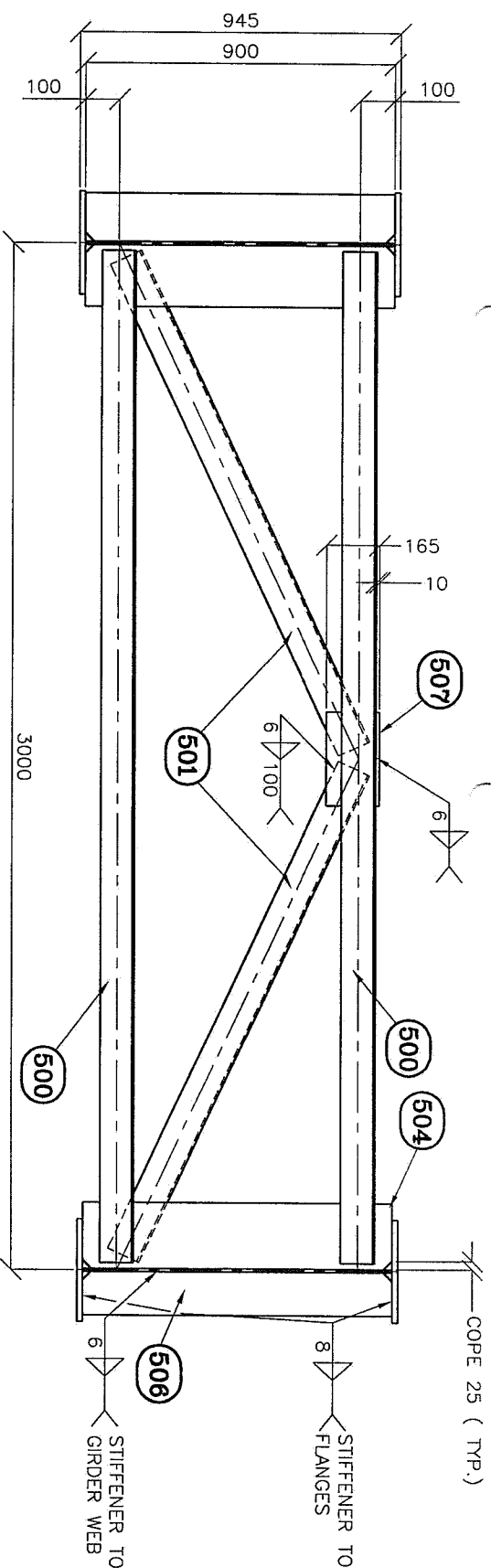
PROJECT:

**TEMBEC
BLACKFOOT CREEK
STRUCTURE N2-135**

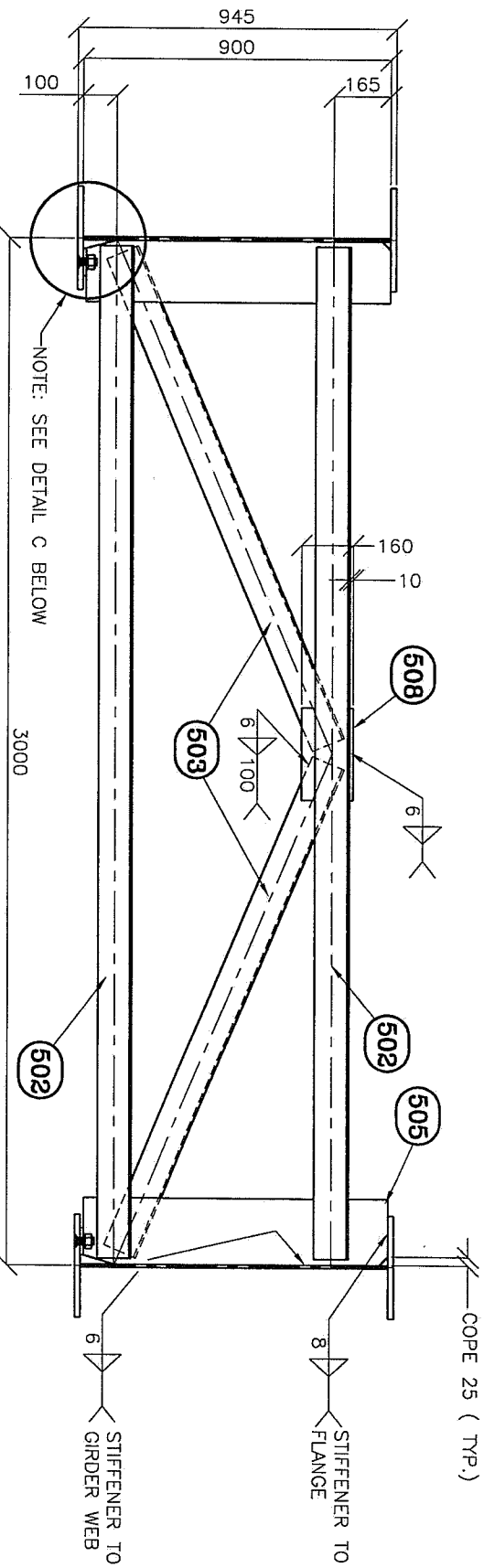
Title:

GIRDER AND LATERAL BRACE DETAILS

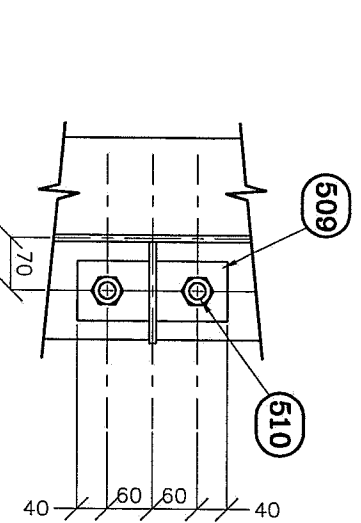
ENG BY: P.J. KING	DATE: JULY 14, 03	CAD FILE: TEMBEC	JOB NO.: 2921
CAD BY: RON RIEMENS	DATE: JULY 14, 03	SCALE: AS SHOWN	SHEET 4 OF 7
APP BY: P.J. KING	DATE: JULY 15, 03	DRAWING NUMBER:	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03	RSS-2921-04	
			



TYPICAL END DIAPHRAGM CROSS SECTION 4
SCALE 1:20



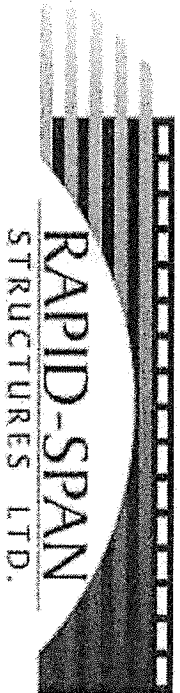
TYPICAL INTERMEDIATE DIAPHRAGM CROSS SECTION 5
SCALE 1:20



TYPICAL INTERMEDIATE DIAPHRAGM CLIP PLATE DETAIL C
SCALE 1:10

BILL OF MATERIALS — JOB # 2921			
ITEM	QTY	DESCRIPTION OR NAME	WT. LBS. TOTAL
500	4	END DIAPHRAGM STRUT	100 x 100 x 6 L x 2957 256
501	4	END DIAPHRAGM DIAGONAL	100 x 100 x 6 L x 1576 137
502	4	INTERMEDIATE DIAPHRAGM STRUT	100 x 100 x 6 L x 2957 256
503	4	INTERMEDIATE DIAPHRAGM DIAGONAL	100 x 100 x 6 L x 1555 135
504	4	END DIAPHRAGM STIFFENER	12.7 x 155 x 900 123
505	4	INTERMEDIATE DIAPHRAGM STIFFENER	9.5 x 150 x 890 88
506	4	BEARING STIFFENER	12.7 x 155 x 900 123
507	2	END DIAPHRAGM GUSSET PLATE	12.7 x 165 x 285 21
508	2	INT. DIAPHRAGM GUSSET PLATE	9.5 x 160 x 280 15
509	4	INTERMEDIATE DIAPHRAGM CLIP PLATE	9.5 x 80 x 200 11
510	8	GRADE A325 TYPE 3 CS BOLT ASSY	7/8" DIA. x 2 1/2" LONG

REV	DATE	DESCRIPTION	BY
1	JULY 15, 03	ISSUED FOR CONSTRUCTION	RR
0	JULY 14, 03	PRELIMINARY	RR



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PROJECT:
TEMPEC
BLACKFOOT CREEK
STRUCTURE N2-135

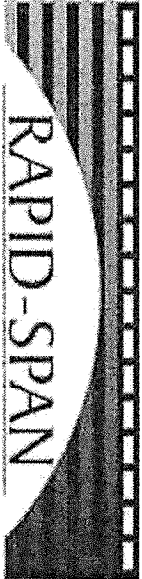
TITLE:
DIAPHRAGM DETAILS

ENG. BY: P. J. KING	DATE: JULY 14, 03	CAD FILE: TEMPEC	JOB NO.: 2921
CAD BY: RON RIEMENS	DATE: JULY 14, 03	SCALE: 1:20	SHEET 5 OF 7
APP BY: P. J. KING	DATE: JULY 15, 03	DRAWING NUMBER:	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03	RSS-2921-05	1

BILL OF MATERIALS - JOB # 2921

ITEM	QTY	DESCRIPTION OR NAME	SIZE	WT. US. TONS
600	4	END PLATE	9.5 x 300 x 920	182
601	4	BASE PLATE	19 x 400 x 600	316
602	32	KEEPER BARS	10 x 10 x 100	6
603				
604				
605				
606				
607				
608				
609				
610				
ITEM	QTY	UNTREATED ROUGH SAWN TIMBER	SIZE	BOARD FEET
611	6	CURB RAIL # 2 OR BETTER FIR-LARCH	10" x 10" x 9'-0"	450
612	4	CURB RAIL # 2 OR BETTER FIR-LARCH	10" x 10" x 14'-0"	467
613	16	CURB RISER # 2 OR BETTER FIR-LARCH	10" x 10" x 2'-6"	334
614	2	CCA TREATED NARROW BRIDGE SIGN POST	4" x 4" x 10'-0"	27
615				
616				
617				

REV	DATE	DESCRIPTION	BY
1	JULY 15, 03	ISSUED FOR CONSTRUCTION	RR
0	JULY 15, 03	PRELIMINARY	RR



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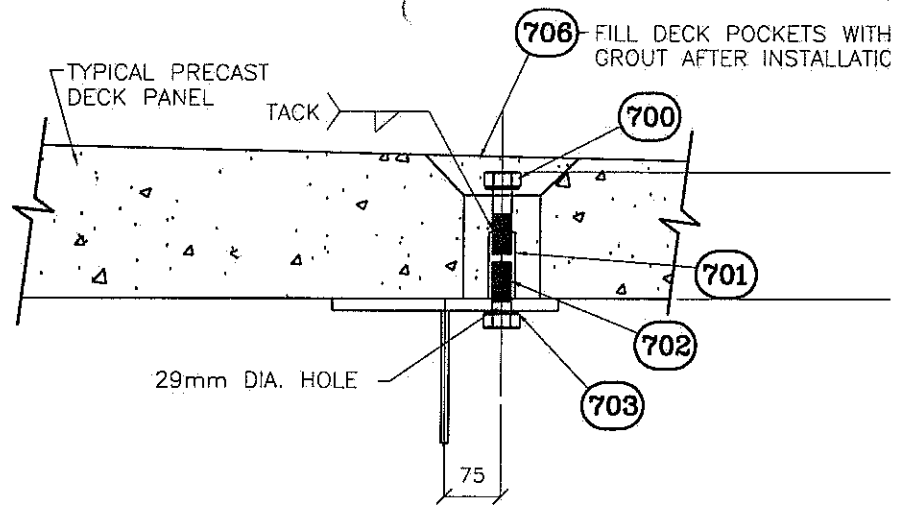
PROJECT:

TEMPEC
BLACKFOOT CREEK
STRUCTURE N2-135

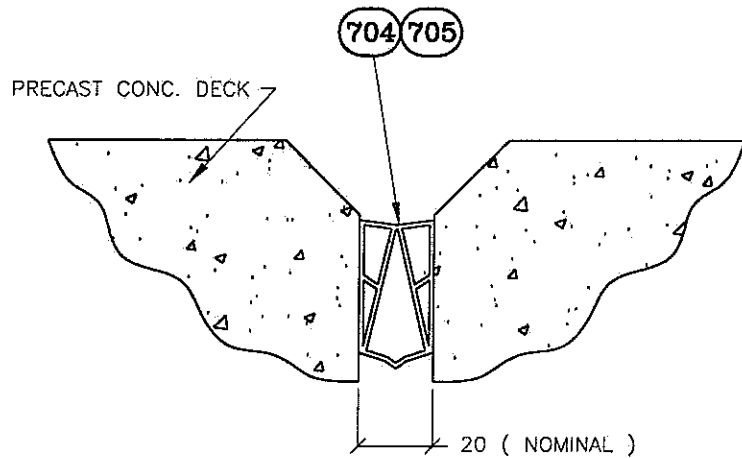
TITLE:

ABUTMENT AND CURB DETAILS

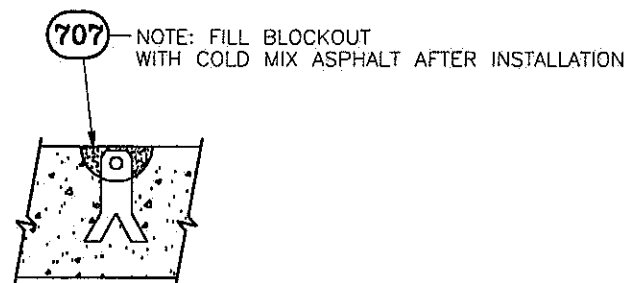
ENG BY: P. J. KING	DATE: JULY 14, 03	CAD FILE: TEMPEC	JOB NO.: 2921
CAD BY: RON RIEMENS	DATE: JULY 15, 03	SCALE: 1:30	SHEET 6 OF 7
APP BY: P. J. KING	DATE: JULY 15, 03	DRAWING NUMBER:	REV
ISSUED BY: RON RIEMENS	DATE: JULY 15, 03	RSS-2921-06	



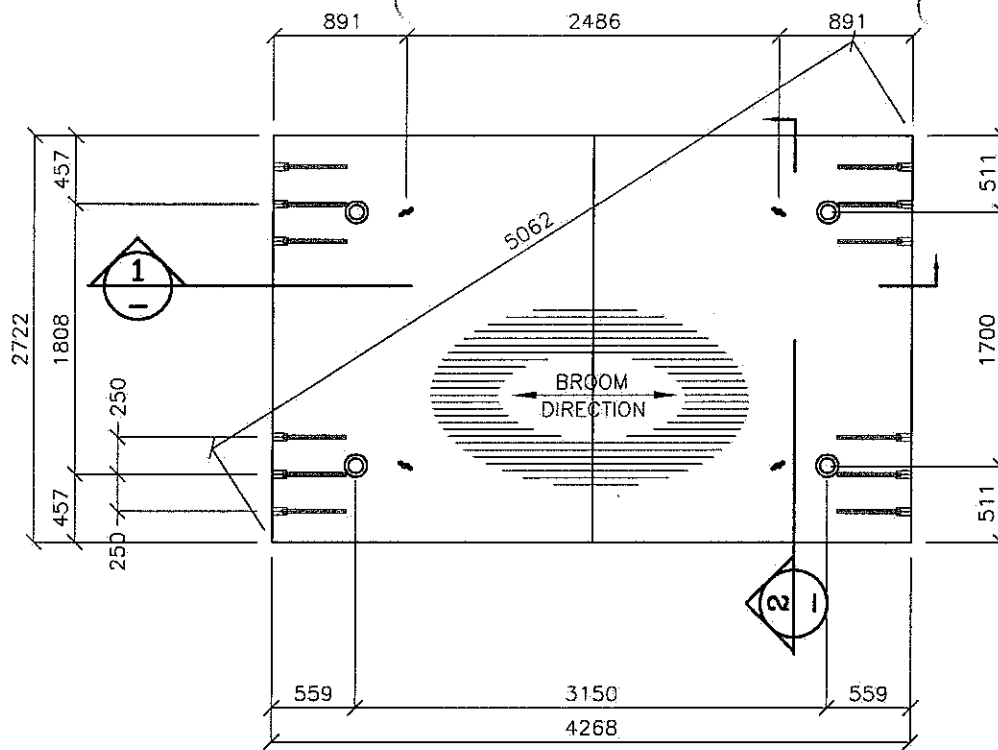
DETAIL "C" (DECK TO GIRDER)
SCALE 1:10



DECK JOINT DETAIL "C"
SCALE 1:5

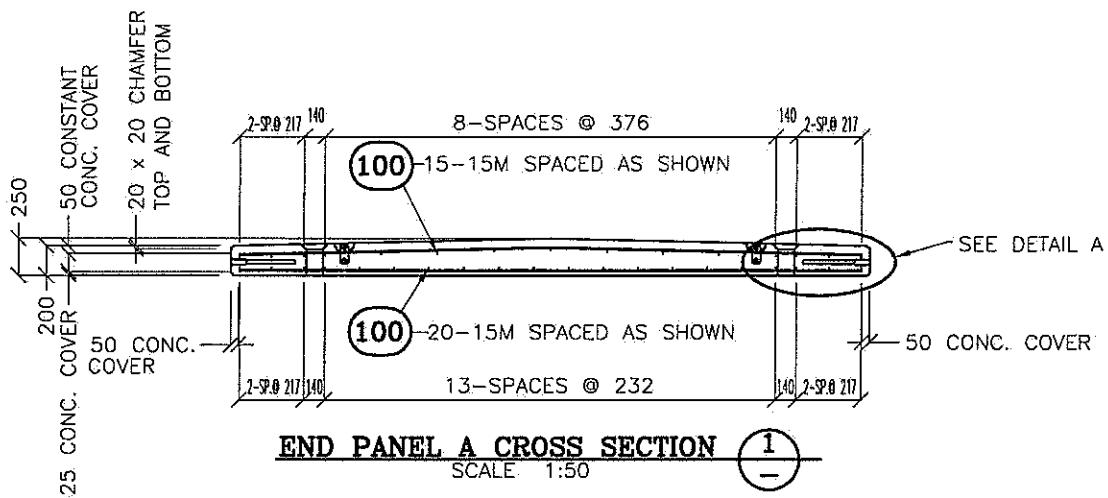


DECK BURKE POCKET DETAIL
SCALE 1:10



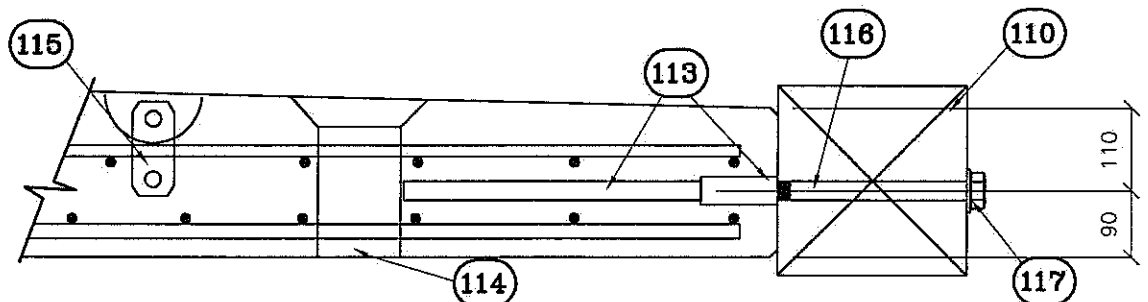
END PANEL A PLAN

SCALE 1:50



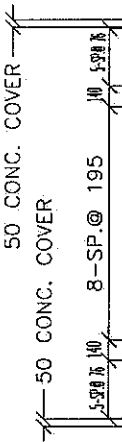
END PANEL A CROSS SECTION

SCALE 1:50

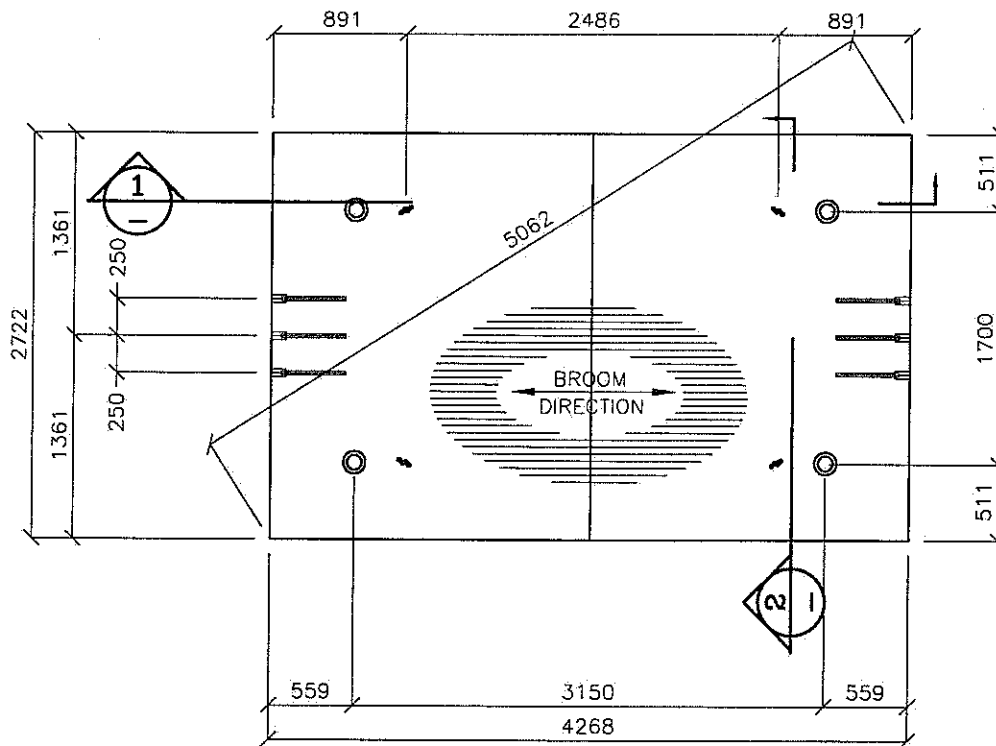


DETAIL "A"

SCALE 1:10

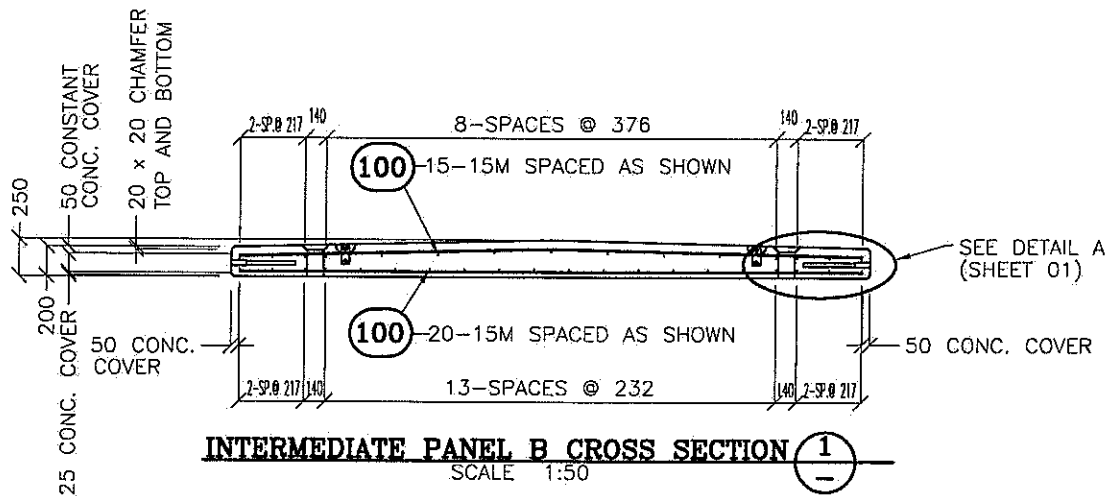


END P



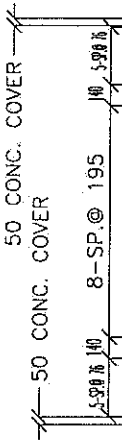
INTERMEDIATE PANEL B PLAN

SCALE 1:50

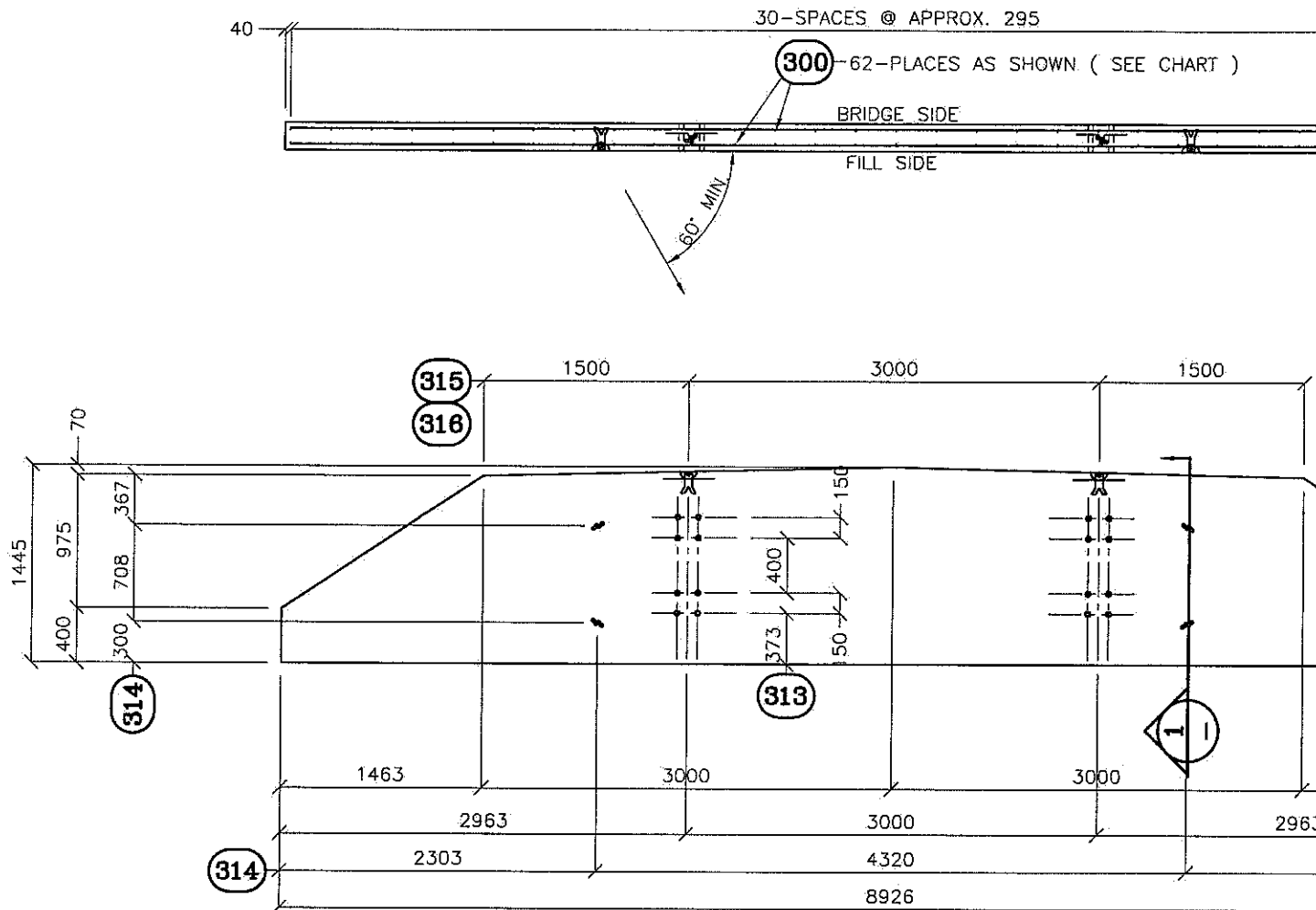


INTERMEDIATE PANEL B CROSS SECTION

SCALE 1:50



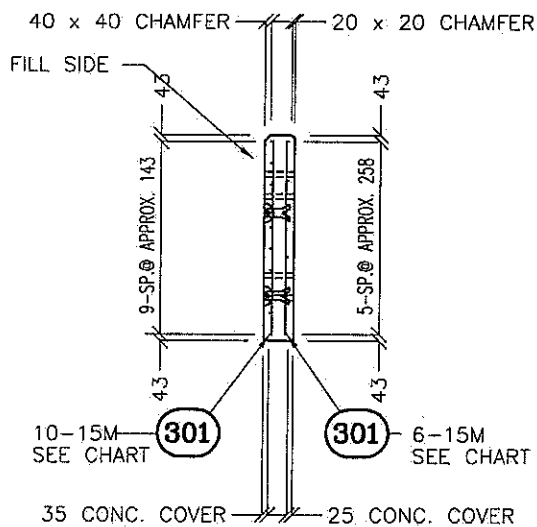
INTERMEDIA



NOTE: CLEARLY MARK "FILL SIDE" ON BALLAST WALLS BEFORE SHIPPING

PRECAST BALLAST WALL BW DETAIL

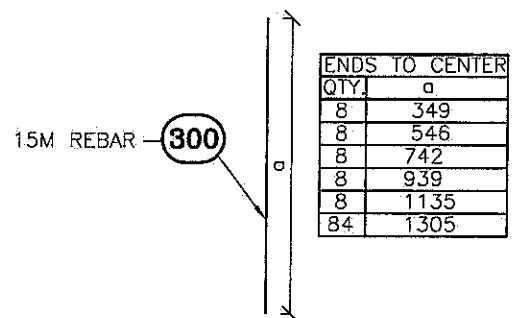
SCALE 1:50



CROSS SECTION

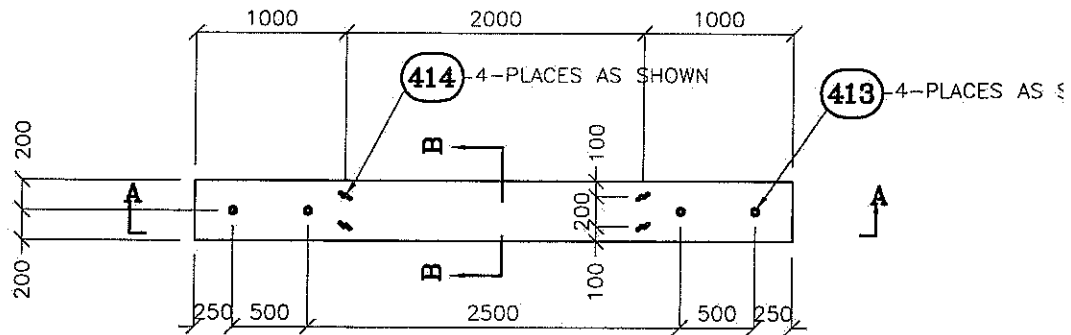
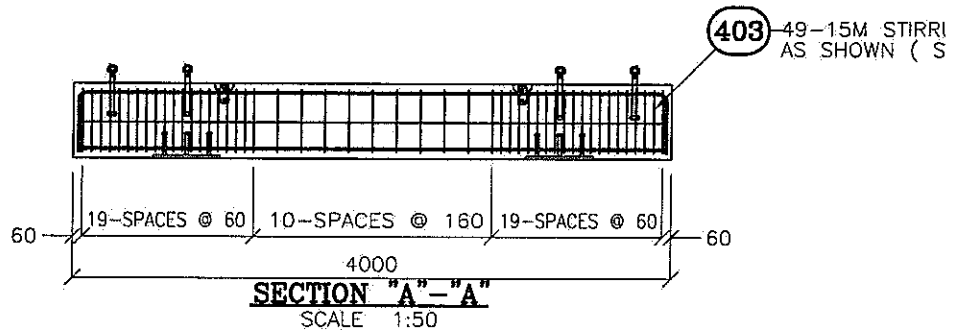
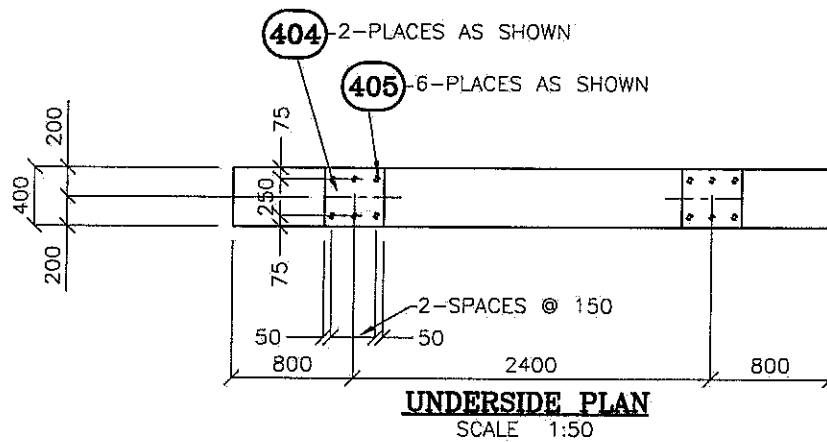
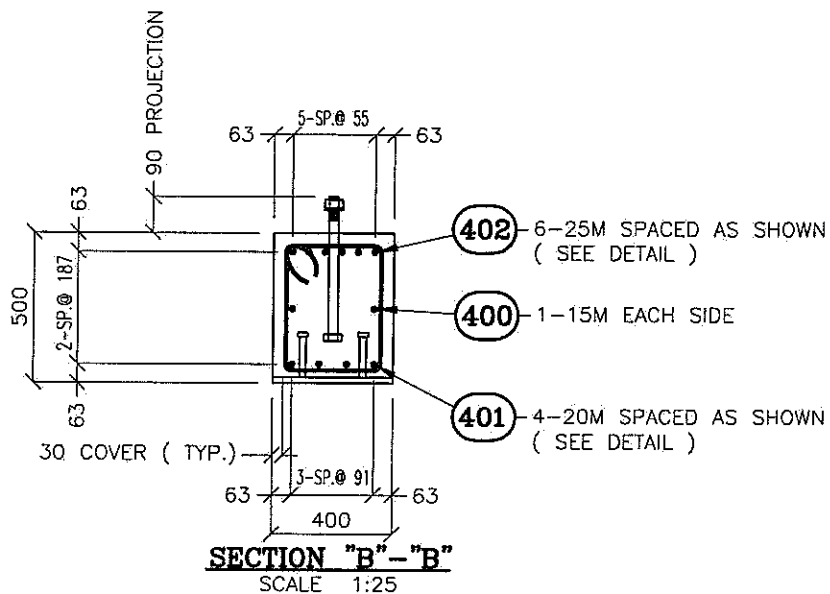
SCALE 1:50

1



VERTICAL REBAR DETAIL

NTS



440

F

FOR