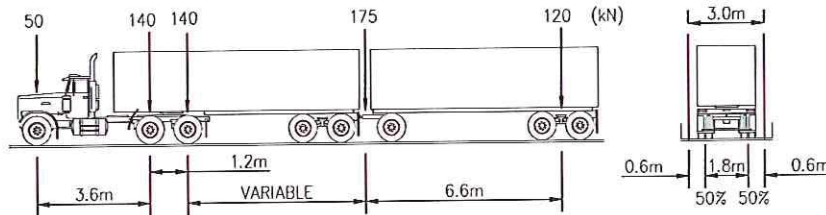


1. DEAD LOAD – UNIT WEIGHTS AND MATERIALS ARE AS FOLLOWS:
CONCRETE (INCLUDING REINFORCING STEEL) = 24kN/m^3
STRUCTURAL STEEL = 77kN/m^3
SOIL = 22kN/m^3
TIMBER = 6kN/m^3
2. LIVE LOAD:
LOADING DIAGRAM BCL-625 ON HIGHWAY G.V.W. = 63 710kg;
DESIGN IN ACCORDANCE WITH CAN/CSA-S6-00 WITH LOADING AS FOLLOWS:



3. CONSTRUCTION LIVE LOAD:
CONSTRUCTION LIVE LOAD NOT TO EXCEED 36500kg UNTIL FULL COMPOSITE ACTION HAS BEEN ACHIEVED.
4. THERMAL ACTION:
MAXIMUM DAILY MEAN TEMPERATURE IS 40°C.
MINIMUM DAILY MEAN TEMPERATURE IS -40°C.

DESIGN SPECIFICATIONS:

1. DESIGN IN ACCORDANCE WITH CAN/CSA-S6-14 & VARIATIONS FROM SAME TO COMPENSATE FOR PECULIARITIES OF LOGGING TRUCK LOADS AS OPPOSED TO NORMAL DESIGN VEHICLES.
2. FATIGUE CATEGORY: 500,000 CYCLES AS PER CAN/CSA-S6-14 (DYNAMIC LOAD ALLOWANCE INCLUDED). ALL MATERIAL SHALL BE NEW.
3. STRUCTURE HAS BEEN DESIGNED FOR FUTURE 50mm ASPHALT OVERLAY.

1. THE BRIDGE SHALL HAVE LOAD RATING, DATE OF MANUFACTURE, STRUCTURE NUMBER N2-038A, MANUFACTURER'S NAME CLEARLY STAMPED OR PERMANENTLY MARKED ON ONE SIDE OF THE STRUCTURE. THE HEIGHT OF LETTERING USED SHALL BE MINIMUM 50mm UNLESS NOTED OTHERWISE.
- 4.

1. THE BRIDGE SHALL BE EQUIPPED WITH 4 HAZARD MARKERS UNLESS OTHERWISE NOTED.
2. THE SITE SHALL HAVE NARROW BRIDGE SIGNS POSTED AT LOCATIONS SPECIFIED BY THE ENGINEER.

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. PIPE SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A252 GRADE 3.
3. WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W-59. WELDING ELECTRODES TO BE COMPATIBLE WITH BASE MATERIAL. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED ON DRAWINGS.
4. ALL LIFTING CABLES TO BE CUT OFF FLUSH AND GROUND SMOOTH. ALL LIFTING RECESSES TO BE GROUTED AFTER COMPONENT INSTALLATION.
5. STUDS TO BE ASTM A108, GRADE 1015, 1018, 1020.

1. GROUT TO BE EXPANDING, NON-SHRINK. GROUT SHALL BE MIXED AND PLACED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 35MPA @ 28 DAY.

1. ALL PRECAST CONCRETE SHALL BE DESIGNED, MIXED, TRANSPORTED, CAST AND CURED ACCORDING TO CSA A23.4-00/A25.1-00-1 "PRECAST CONCRETE - MATERIALS AND CONSTRUCTION/QUALIFICATION CODE FOR ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE PRODUCTS".
2. CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS:
 - EXPOSURE CLASS C-1
 - 35MPa STRENGTH AT 28 DAYS
 - MAX. AGGREGATE SIZE 20mmØ
 - MIN. ENTRAINED AIR 5% TO 8%
 - MAX. W/C RATIO BY MASS 0.40
 - DECK SURFACE FINISH, ROUGH TRANSVERSE BROOM

3. REINFORCING STEEL COVER REQUIREMENTS:
 - TOP = 50mm
 - BOTTOM = 30mm
 - SIDE = 30mm
4. PRECAST COMPONENTS TO BE MADE IN CSA APPROVED SHOP.
5. ALL EXPOSED CORNERS SHALL HAVE A 20mm CHAMFER OF FILLET UNLESS NOTED OTHERWISE.
6. ALL REINFORCING STEEL TO BE DEFORMED BARS CONFORMING TO CSA G30.18-M, GRADE 400. ALL BARS TO BE CONTINUOUS LENGTH.
7. CONCRETE TEST CERTIFICATES TO BE FORWARDED TO THE ENGINEER.
8. ALL LIFTING RECESSES TO BE GROUTED AFTER COMPONENT INSTALLATION.

1. FOOTINGS HAVE BEEN DESIGNED FOR 200KPA MAXIMUM ALLOWABLE BEARING PRESSURE. A MINIMUM THICKNESS OF 300MM OF GRANULAR MATERIAL SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY, BELOW EACH FOOTING, UNDER THE DIRECT SUPERVISION OF THE ENGINEER.

1. THE BRIDGE WILL BE HANDLED DURING TRANSPORTATION AND ERECTION, IN SUCH A MANNER AS TO NOT CAUSE HARM TO THE BRIDGE OR TO THE COMPONENTS OF THE BRIDGE.
2. GIRDERS MUST BE SUPPORTED WITHIN 1m OF BEARING LOCATIONS DURING TRANSPORTATION AND STORAGE.
3. ONLY LOW IMPACT LIFTS ARE PERMITTED, ANGLE OF LIFT MUST NOT EXCEED 30° FROM THE VERTICAL.
4. GIRDER IS DESIGNED FOR CANTILEVERED LAUNCH. GIRDER MUST NOT CANTILEVER MORE THAN HALF ITS LENGTH DURING LAUNCHING.

1. PIPE SHALL BE IN ACCORDANCE WITH ASTM A252 GRADE 3. MATERIAL CERTIFICATES ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL STEEL SHALL BE IN ACCORDANCE WITH CSA STANDARD G40.21,
 - GRADE 350AT, CATEGORY 3 (GIRDER PLATES)
 - GRADE 350A (ANGLES AND PLATES) EMBEDDED
 - GRADE 350W (TUBING, CHANNELS, W AND HP-SECTIONS)

NON-WEATHERING STEEL SECTIONS ARE TO BE PAINTED USING AN APPROVED PAINT SYSTEM UNLESS NOTED OTHERWISE. MATERIAL CERTIFICATES ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

3. GIRDERS ARE DESIGNED AS FRACTURE CRITICAL MEMBERS.
4. WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W-59. WELDING ELECTRODES TO BE COMPATIBLE WITH BASE METAL. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED ON DRAWINGS.
5. ALL BUTT WELDS TO BE RADIOGRAPHIC TESTED WITH COPIES SENT TO THE ENGINEER.

1. GUARDRAILS HAVE BEEN DESIGNED TO MEET THE CRITERIA FOR CONTAINMENT LEVEL CL-3 AS DEFINED BY THE MINISTRY. GUARDRAILS HAVE NOT BEEN DESIGNED TO CONTAIN ERRANT VEHICLES.
2. FOR GUARDRAIL ANCHOR DETAILS SEE MINISTRY STANDARD DRAWINGS
- STD-EC-010-03 & 04.

STEEL:
RAILS AND POSTS - TO CSA G40.21M - GRADE 350W (COATED) POST
- GRADE 350A (UNCOATED) RAIL
PLATE - TO CSA G40.21M - GRADE 350W (COATED)

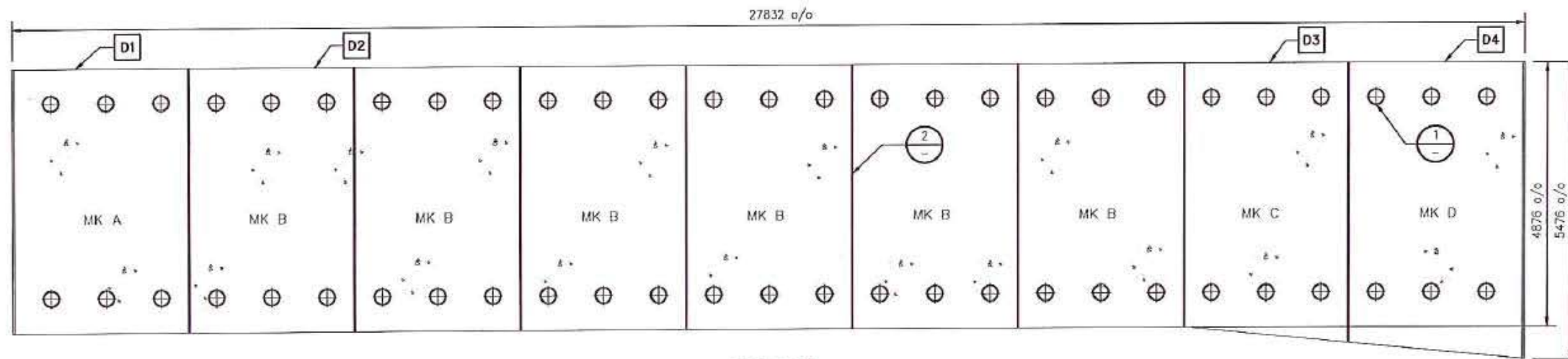
- SHOP WELDING IN ACCORDANCE WITH CSA W59 FABRICATOR TO BE CERTIFIED FOR DIVISION 1,2, OR 3 IN ACCORDANCE WITH CSA W47.1.
- FIELD WELDING BY COMPANY CERTIFIED TO CSA W47.1, DIVISIONS 1,2 OR 3.
- MIN. 6mm FILLET WELD UNLESS OTHERWISE NOTED.

- BRACKETS AND POST TO BE GALVANIZING TO CSA G164, MINIMUM 610g/m².

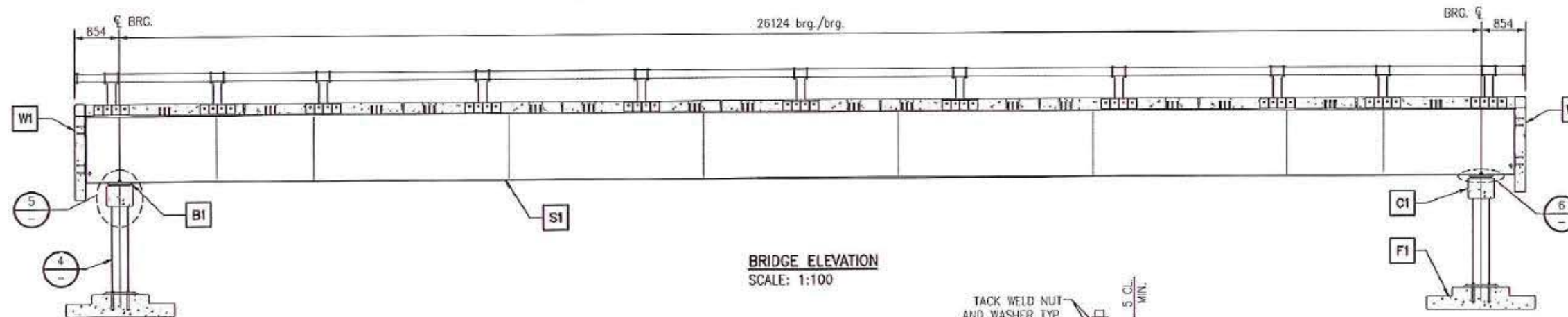
- ALL HARDWARE (BOLTS, NUTS, WASHERS) TO BE GALVANIZED TO CSA G104, MINIMUM 610G/M².
- BOLTS TO ASTM A307 GRADE B GALVANIZED.

[illegible]

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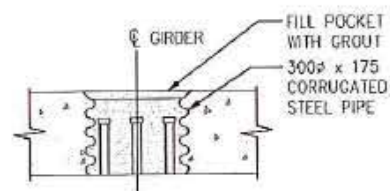
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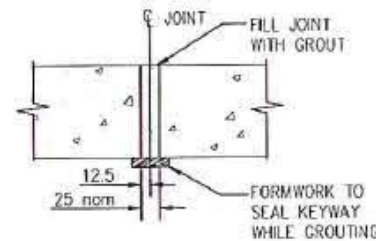
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SCALE: 1:100



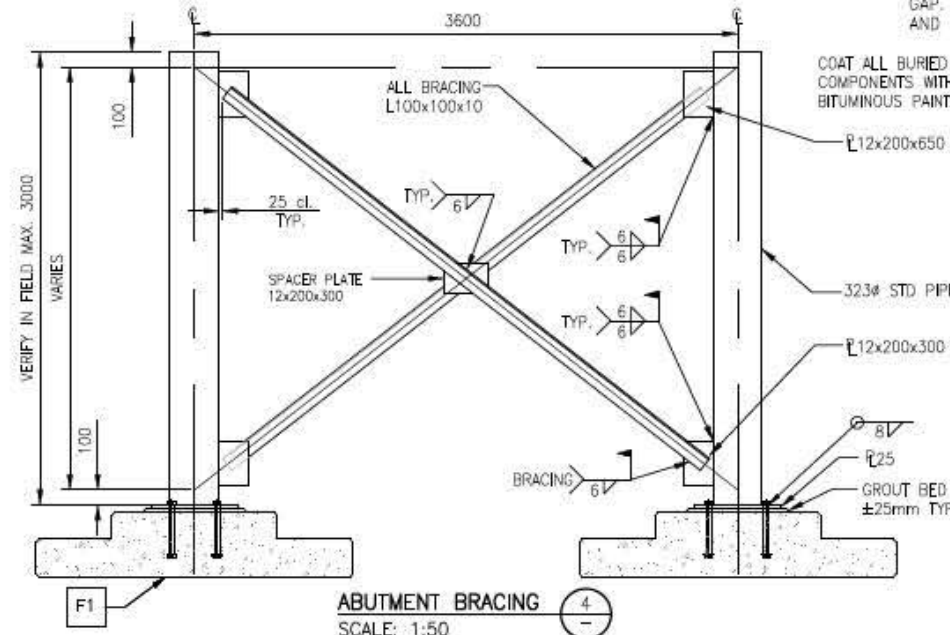
DETAIL - BEARING CONNECTION 6
SCALE: 1:20



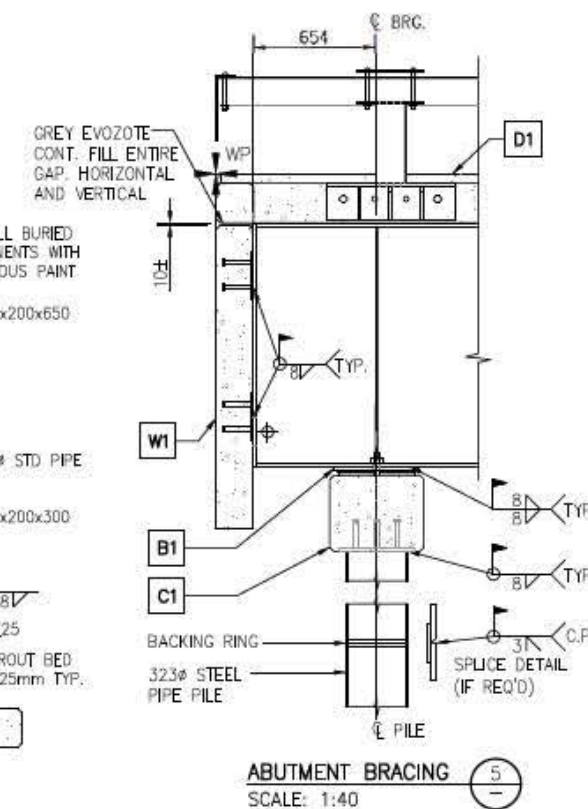
DETAIL - DECK CONNECTION 1
SCALE: 1:20



DETAIL - DECK JOINT 2
SCALE: 1:20



ABUTMENT BRACING 4
SCALE: 1:50



ABUTMENT BRACING 5
SCALE: 1:40

ITEM	QTY.	PAGE	DESCRIPTION
D1	1	3	PRECAST CONCRETE DECK PANEL MK A - BCL-625 - 3248x4876
D2	6	4	PRECAST CONCRETE DECK PANEL MK B - BCL-625 - 3048x4876
D3	1	5	PRECAST CONCRETE DECK PANEL MK C - BCL-625 - 3048x4876-5165
D4	1	6	PRECAST CONCRETE DECK PANEL MK D - BCL-625 - 3248x5165-5476
S1	1	8	STEEL SUPERSTRUCTURE - BCL-625 - 27.432m LG.
W1	1	9	PRECAST CONCRETE BALLAST WALL - 1830 DEEP - 5476mm DECK
W2	1	9	PRECAST CONCRETE BALLAST WALL - 1830 DEEP - 5476mm DECK
B1	4	11	BEARING ASSEMBLIES - 400x500 PAD
F1	2	10	PRECAST CONCRETE FOOTINGS - 2100x2100x425
R1	2	11	RAILING DETAILS
C1	2	12	PRECAST CONCRETE CAP BEAM - 400x500x4800

REFERENCE DRAWINGS		
DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.
1	17GP0040-000-1960-001	1

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING
17GP0040-000-1960-001



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REV.	YY/MM/DD	DESCRIPTION	DRWN.	APVD.
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3	17/02/23	ISSUED FOR CONSTRUCTION	TJB	WSM
2	17/02/22	ISSUED FOR REVIEW	TJB	WSM
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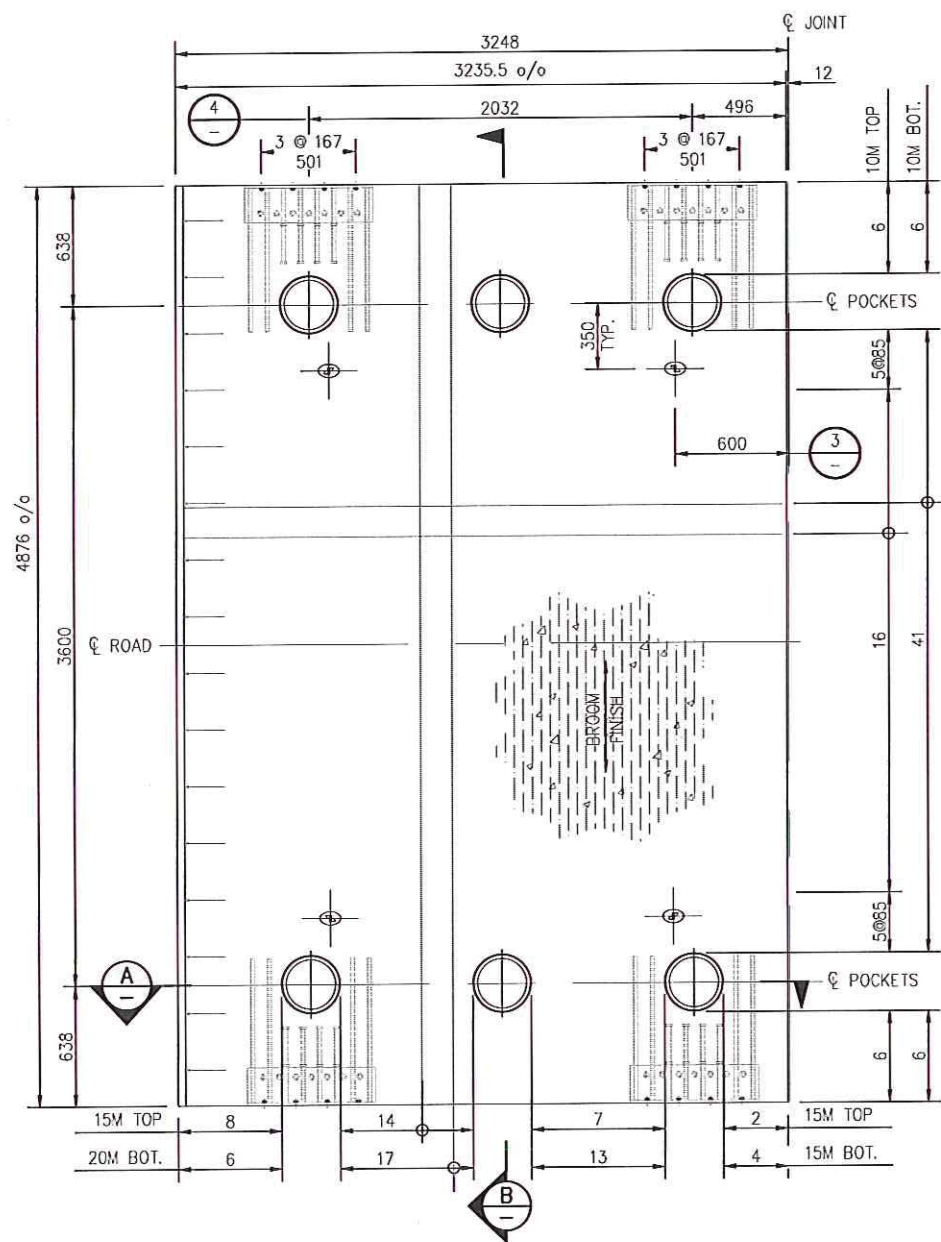


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DRAWING SIZE: A3 (11'x17')	CHKD.	WSM	DATE: 17/02/23
SCALE: AS NOTED	APVD.	WSM	DATE: 17/02/23

PROJECT:
**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

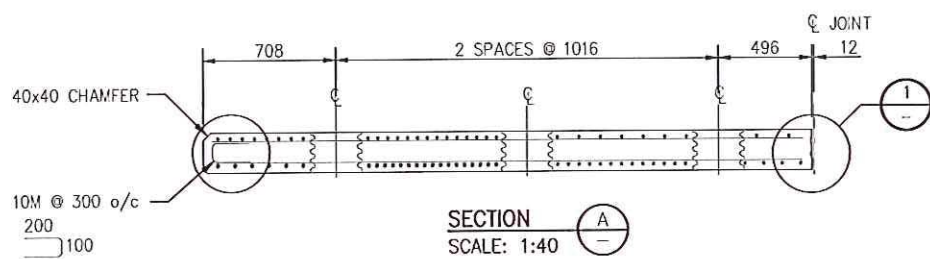
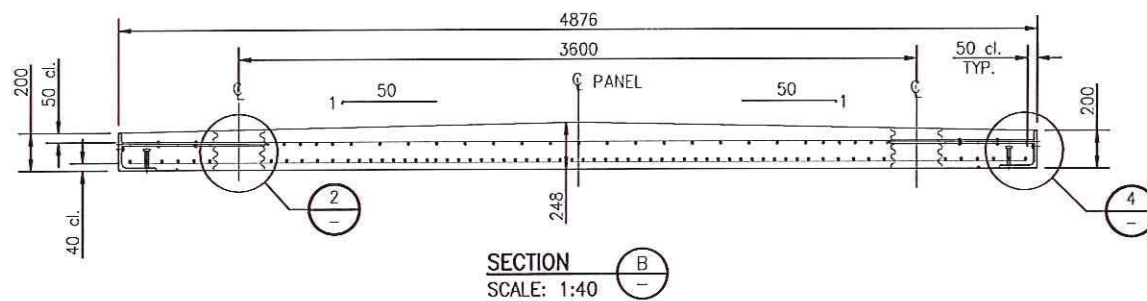
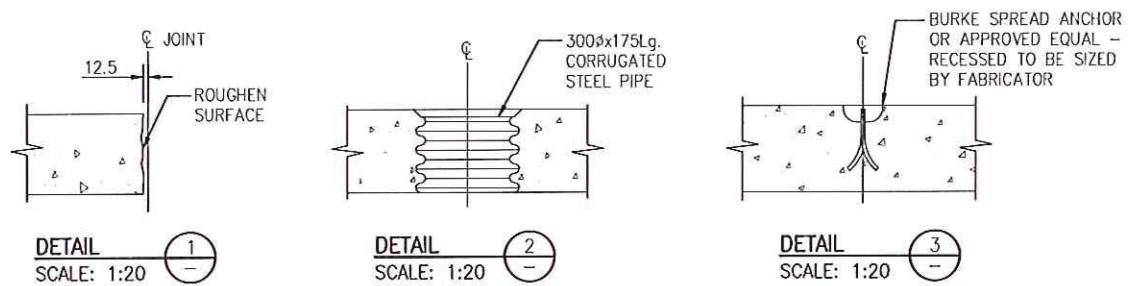
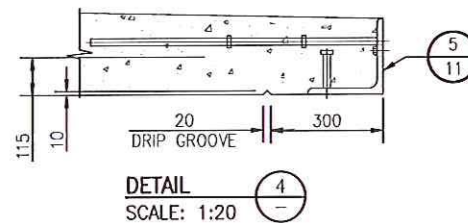
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BRIDGE ASSEMBLY

DWG NO.	REV.
17GP0040-000-1960-002	4



NOTE: REINFORCING TO BE
EVENLY DISTRIBUTED BETWEEN
SHEAR STUD POCKET LOCATIONS.

PLAN - PANEL MK A
SCALE: 1:40
(1 REQUIRED)

[illegible]

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING
17GP0040-000-1960-001
2. ESTIMATED MASS = 8150kg.



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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD	



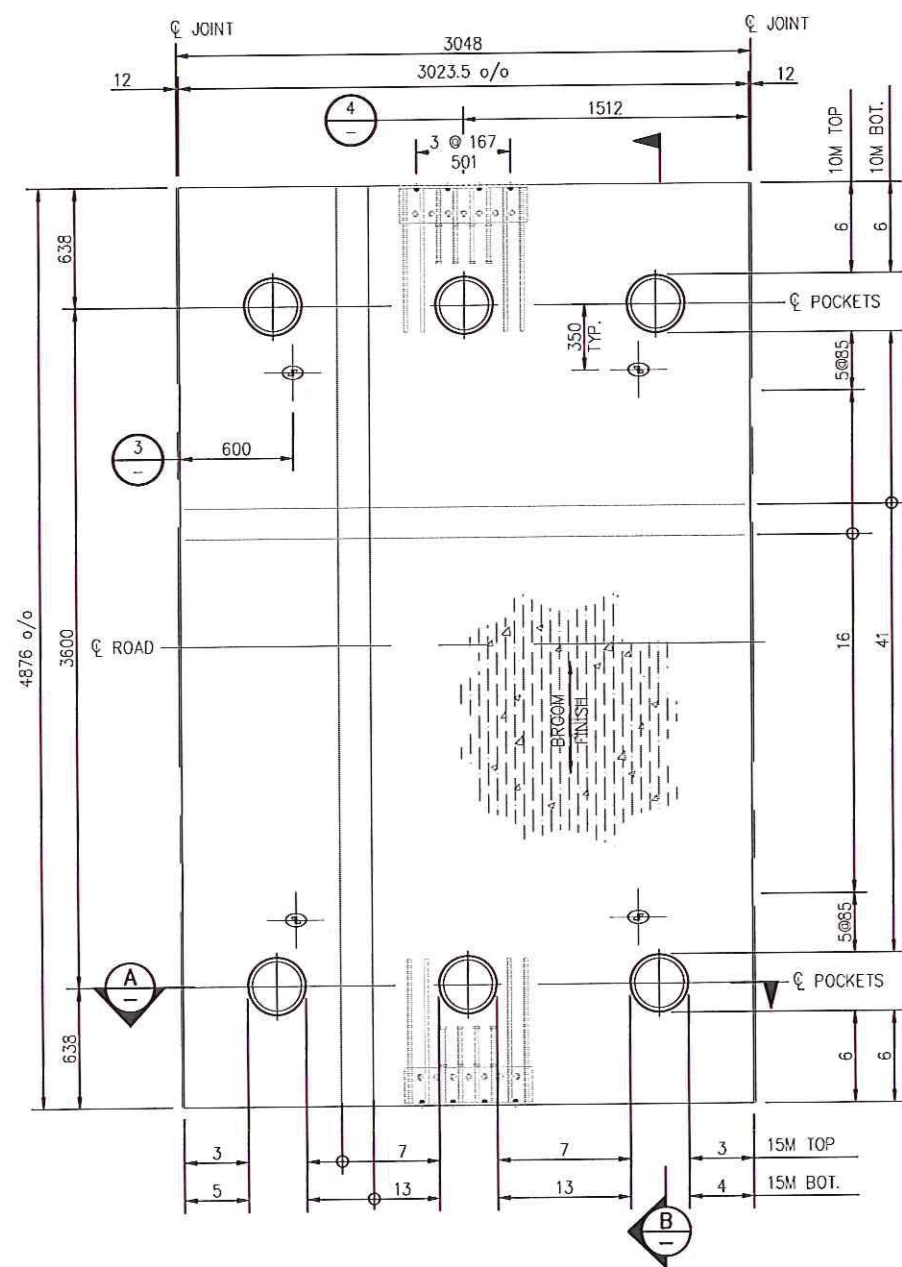
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SCALE:	AS NOTED	APVD:	WBM	DATE:	17/02/23

PROJECT:

**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

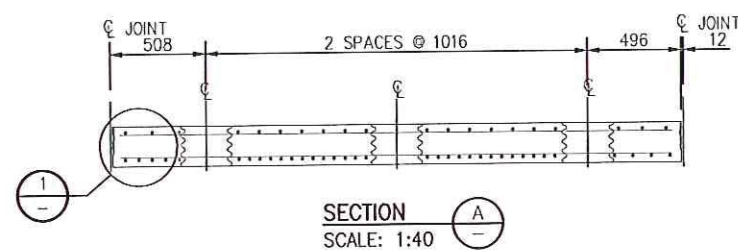
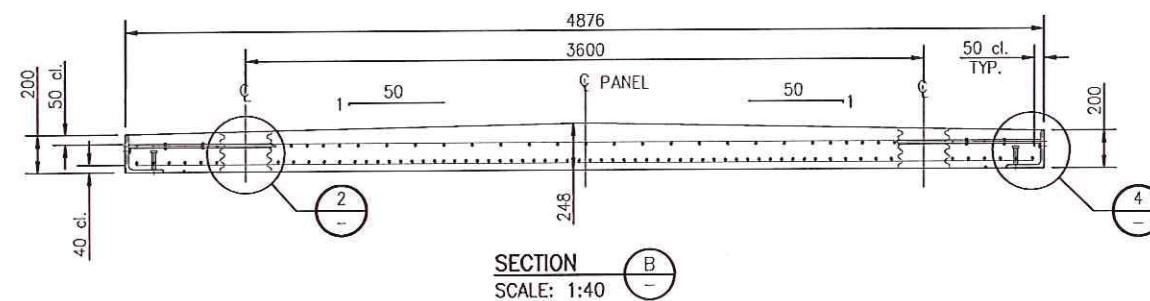
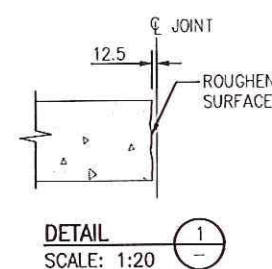
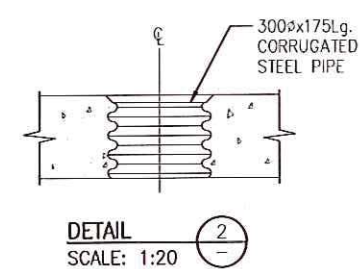
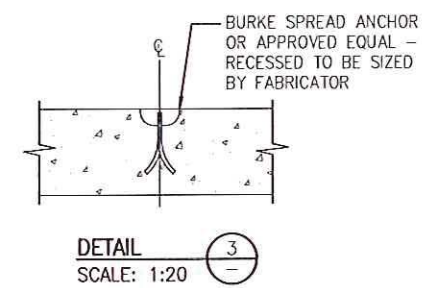
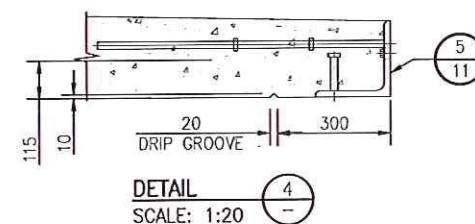
**TITLE: PRECAST CONCRETE DECK
PANEL BCL-625 - MKA
3.248 x 4.876m
EXTERIOR**

DWG NO. 17GP0040-000-1960-003	REV. 2
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NOTE: REINFORCING TO BE
EVENLY DISTRIBUTED BETWEEN
SHEAR STUD POCKET LOCATIONS.

PLAN - PANEL MK B
SCALE: 1:40
(6 REQUIRED)



REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

NOTE:

1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0040-000-1960-001
2. ESTIMATED MASS = 8150kg.



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1	17/02/21	ISSUED FOR REVIEW	TJB	WS			
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REV	YY/MM/DD	DESCRIPTION			DRAWN	APV	
CLIENT:							



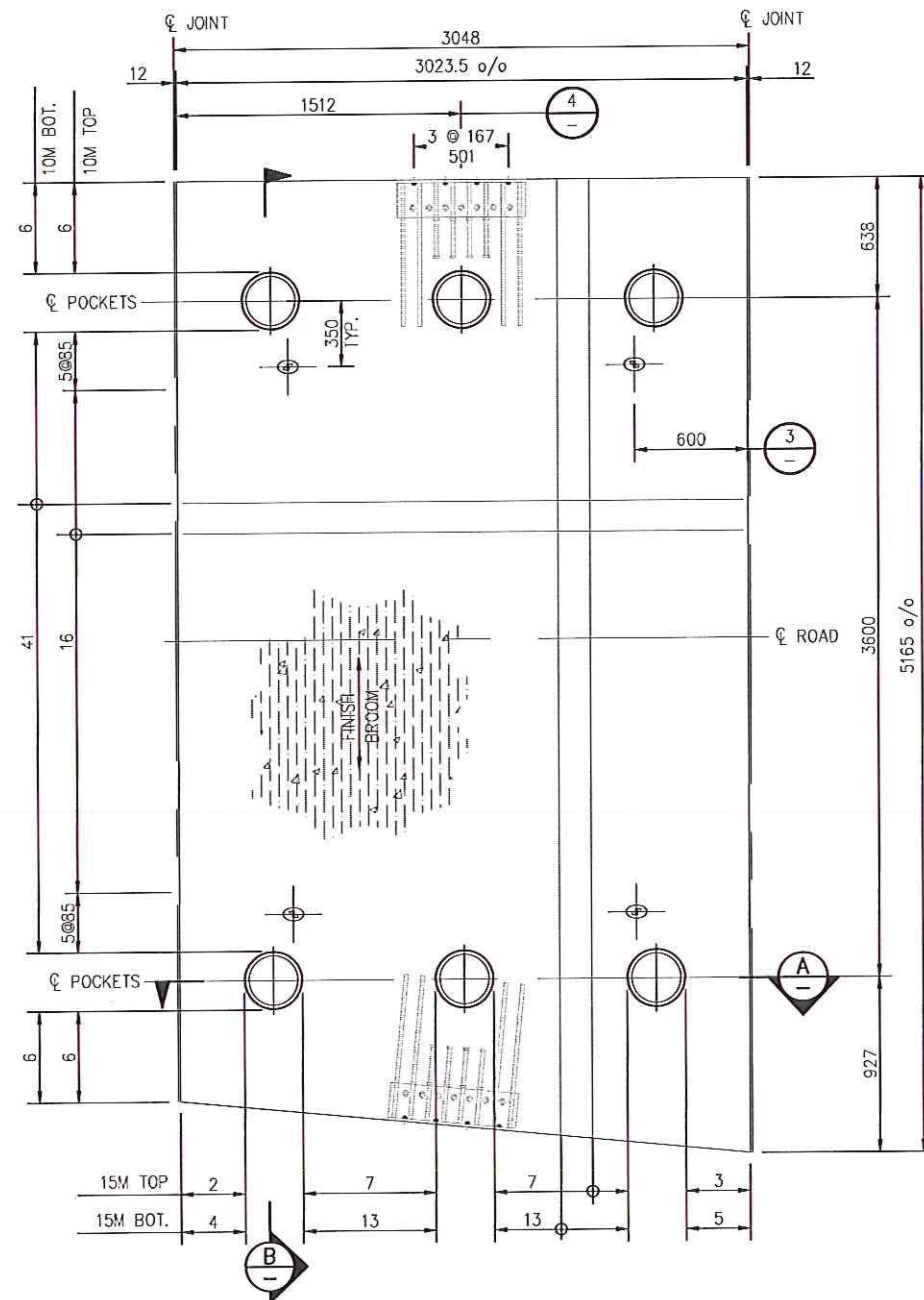
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SCALE:	AS NOTED	APVD:	WBM	DATE:	17/02/2017

PROJECT:

**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

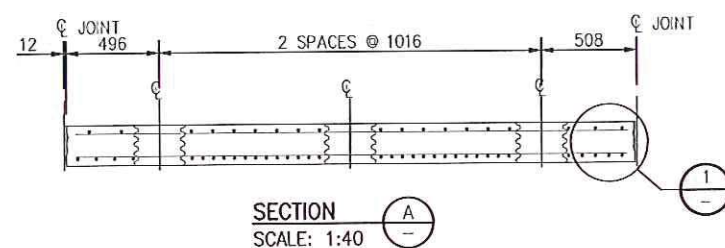
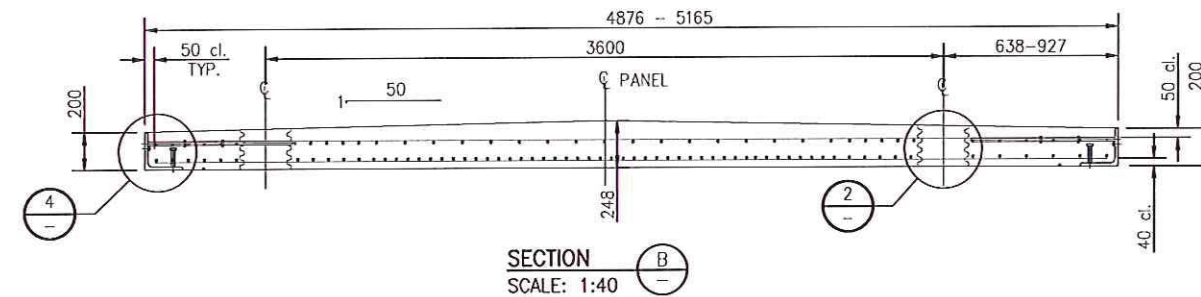
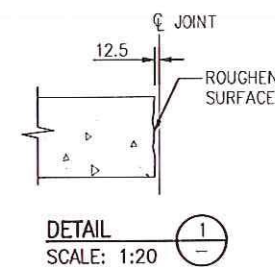
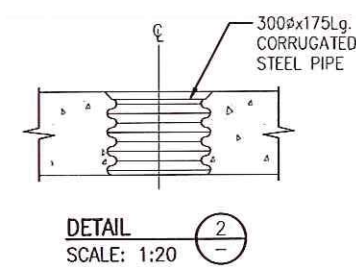
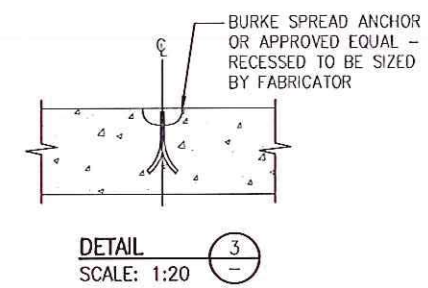
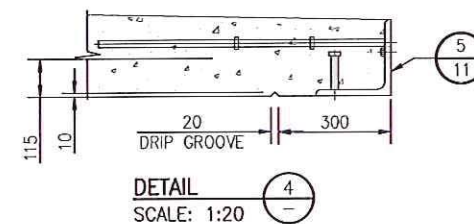
**TITLE: PRECAST CONCRETE DECK
PANEL BCL-625 - MKC
3.048 x4.876m
INTERIOR**

DWG NO:	REV:
17GP0040-000-1960-004	2



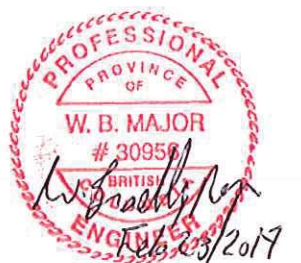
NOTE: REINFORCING TO BE
EVENLY DISTRIBUTED BETWEEN
SHEAR STUD POCKET LOCATIONS.

PLAN - PANEL MK C
SCALE: 1:40
(1 REQUIRED)

[illegible]

NOTE:

1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0040-000-1960-001
2. ESTIMATED MASS = 9280kg.



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2	17/02/23	ISSUED FOR CONSTRUCTION	TJB	W&M
1	17/02/21	ISSUED FOR REVIEW	TJB	W&M
0	17/02/21	ISSUED FOR REVIEW	TJB	W&M
REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

CLIENT:



CLIENT NO:	-	DRWN:	TJB	DATE:	17/02/10
PROJECT NO:	17GP0040	DSGN:	DY	DATE:	17/02/10
DRAWING SIZE:	ANSI "B"	CHKD:	WBM	DATE:	17/02/23
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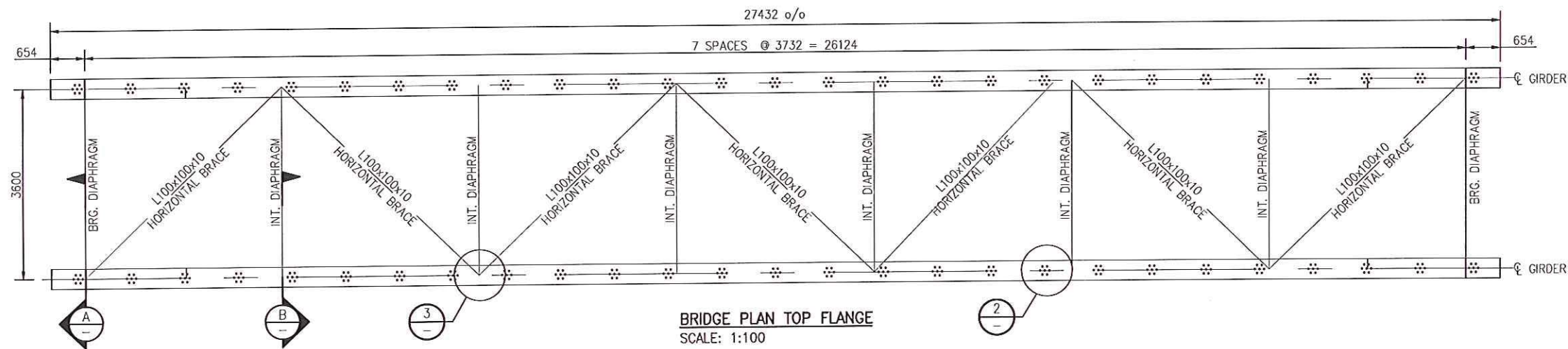
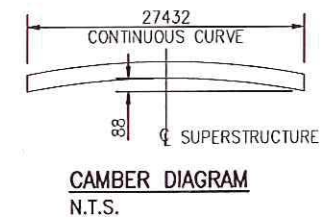
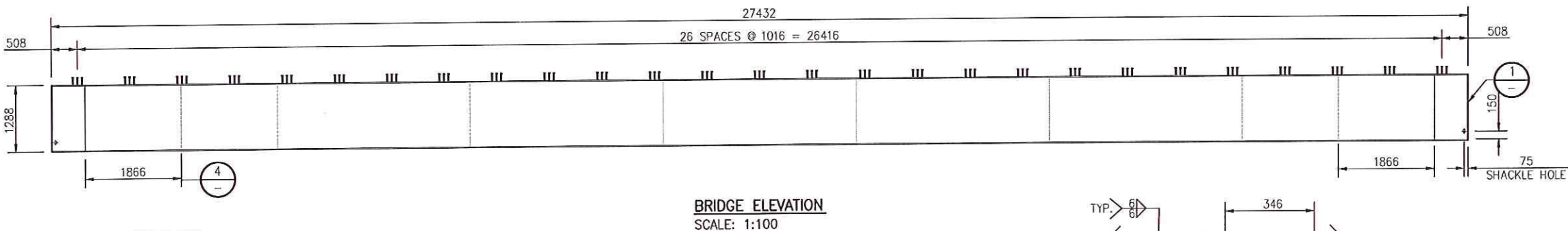
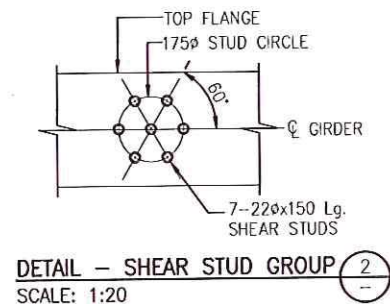
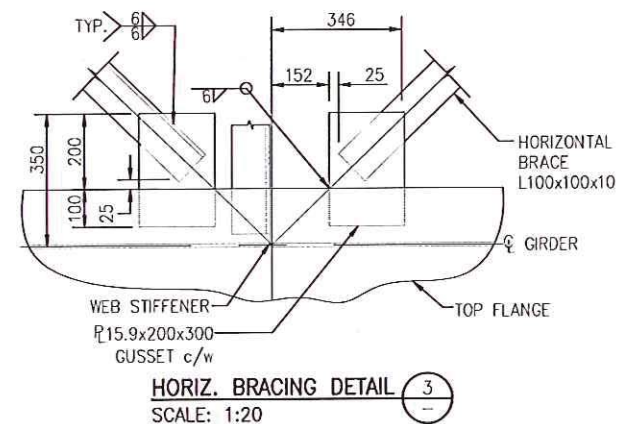
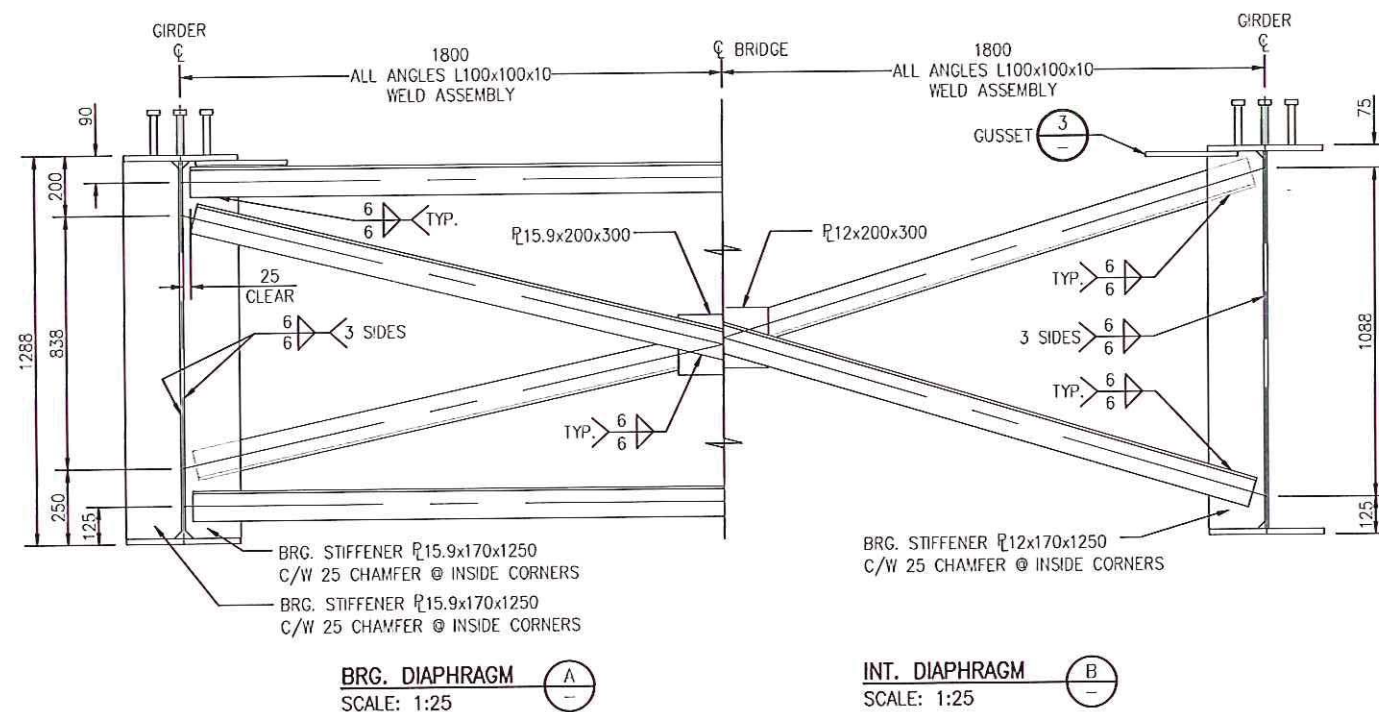
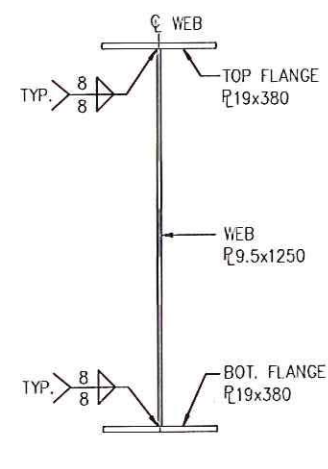
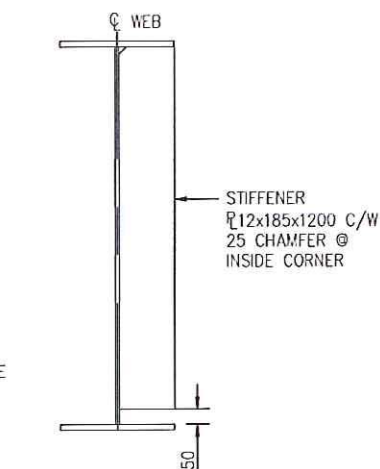
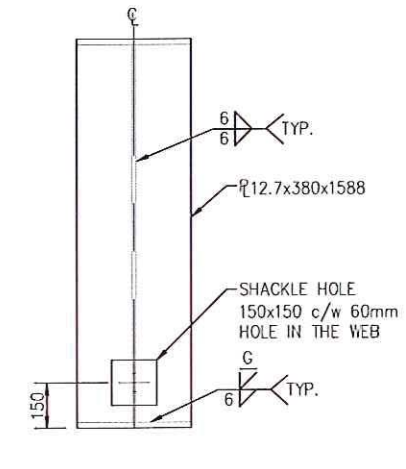
PROJECT:

**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

**TITLE: PRECAST CONCRETE DECK
PANEL BCL-625 - MKC
3.048 x4.876-5.165m
FLARED INTERIOR**

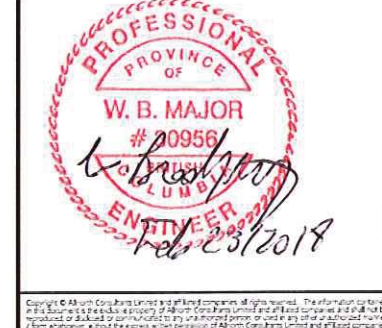
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REFERENCE DRAWINGS		
DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.
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NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING 17GP0040-000-1960-001
2. ESTIMATED MASS = 13430kg.



REV.	YY/MM/DD	DESCRIPTION	DRWN.	APVD.
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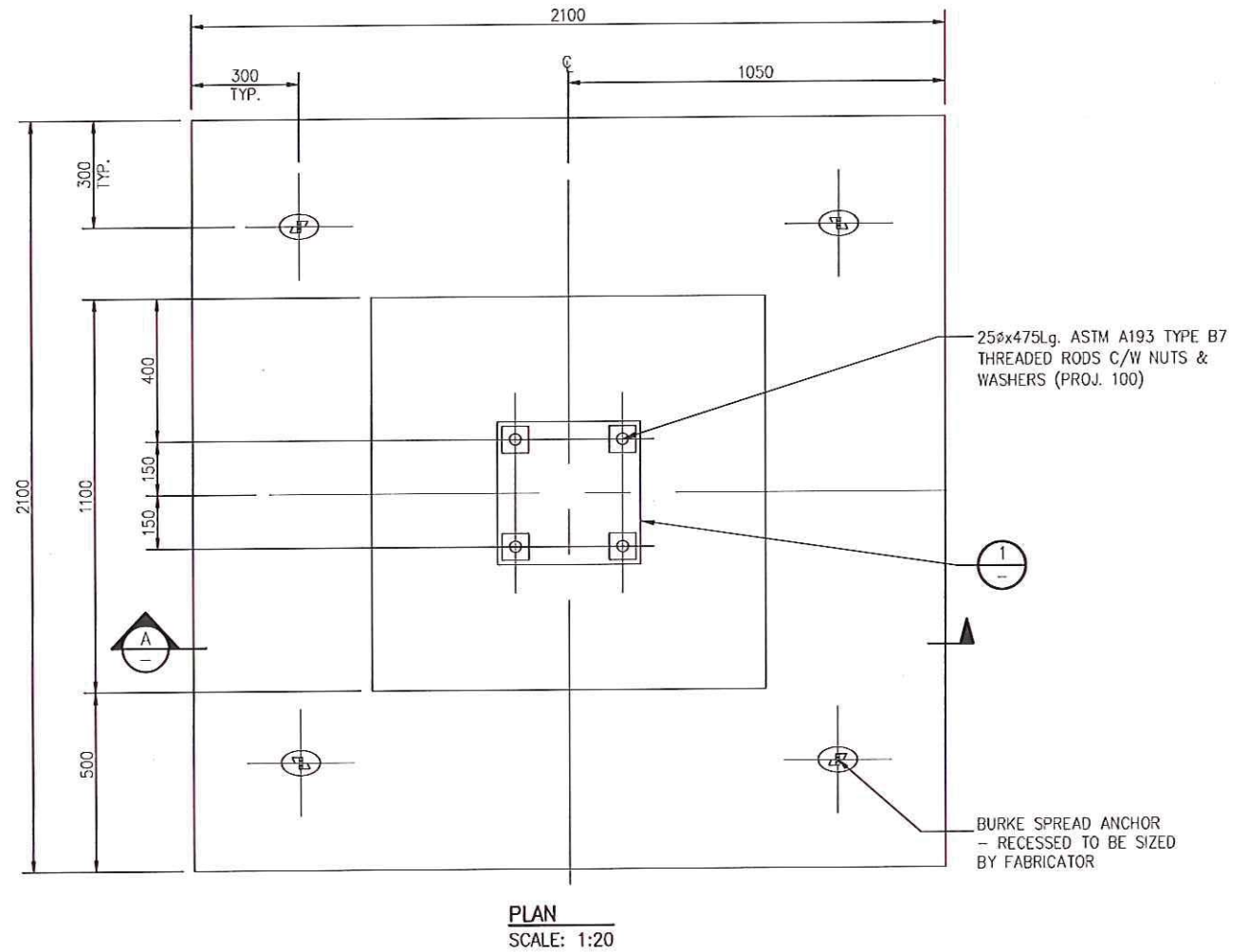
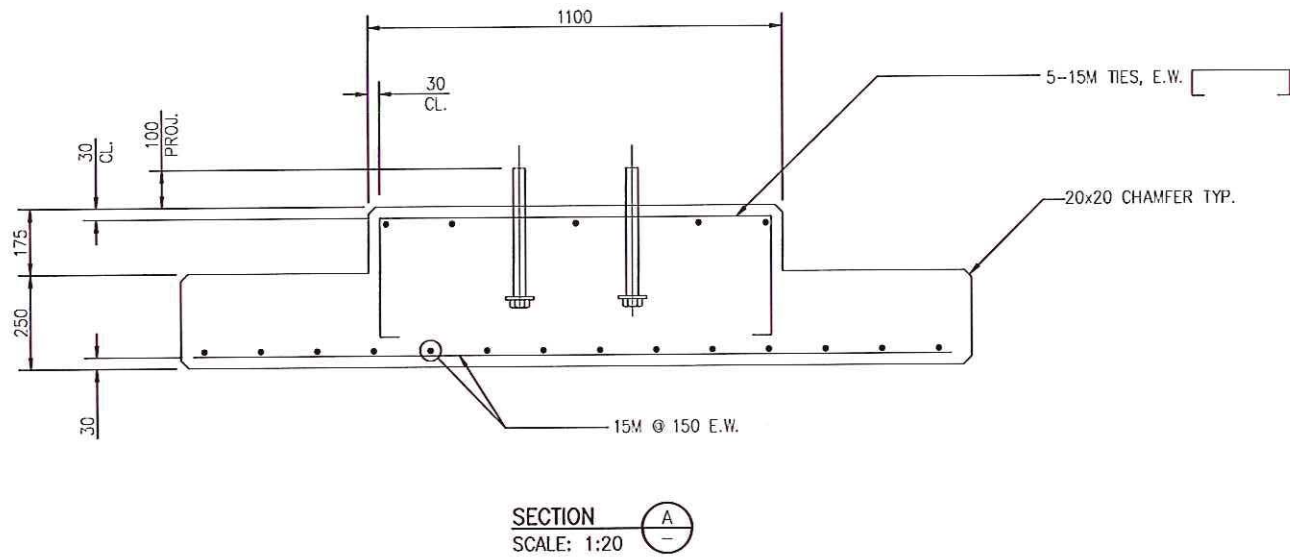
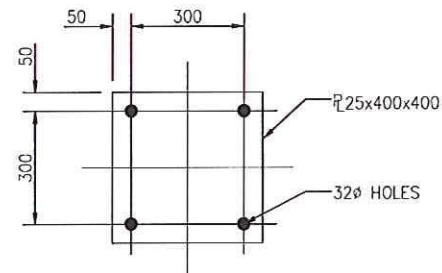


CLIENT NO.	-	DRWN.	TJB	DATE:	17/02/10
PROJECT NO.	17GP0040	DSGN.	DY	DATE:	17/02/10
DRAWING SIZE:	A1S1 "B"	CHKD.	DY	DATE:	17/02/10
SCALE:	AS NOTED	APVD.	WBM	DATE:	17/02/10

PROJECT:
**FINDLAY CREEK
27.432m STEEL/CONCRETE
BSL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

TITLE:
**STEEL SUPERSTRUCTURE
BCL-625 27.432m Lg.**

DWG NO.	17GP0040-000-1960-007	REV.	1
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DETAIL - BASE PLATE 1
SCALE: 1:20

REFERENCE DRAWINGS

DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.
-	-	1

NOTE:
1. FOR SPECIFICATIONS REFER TO DRAWING
17GP0040-000-1960-001
2. ESTIMATED MASS = 3550kg.



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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
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0	17/02/21	ISSUED FOR REVIEW	TJB	WBM

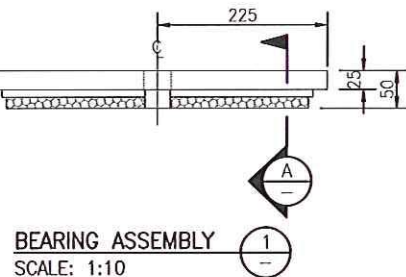
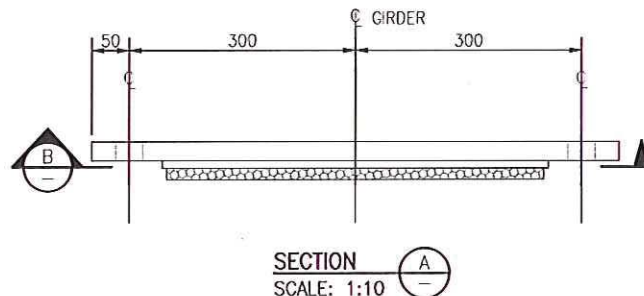
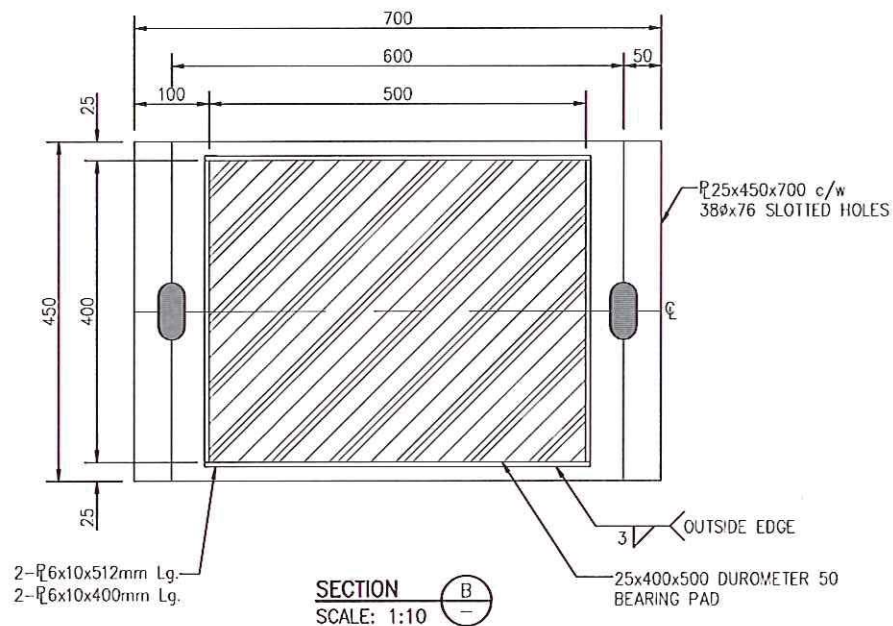


CLIENT NO.	-	DRWN.	TJB	DATE:	17/02/10
PROJECT NO.	17GP0040	DSGN.	DY	DATE:	17/02/10
DRAWING SIZE:	ANSI "B"	CHKD.	WBM	DATE:	17/02/23
SCALE:	AS NOTED	APVD.	WBM	DATE:	17/02/23

PROJECT:
**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

TITLE:
**PRECAST CONCRETE
FOOTING
2100 x 2100 x 425mm**

DWG NO.	17GP0040-000-1960-009	REV.	1
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[illegible]

NOTE:
1. FOR NOTES AND SPECIFICATIONS REFER TO
DRAWING 17GP0040-000-1960-001

[illegible]

CLIENT:



CLIENT NO:	-	DRWN:	TJB	DATE:	17/02/10
PROJECT NO:	17GFC040	DSGN:	DY	DATE:	17/02/10
DRAWING SIZE:	ANSI "B"	CHKD:	DY	DATE:	17/02/23
SCALE:	AS NOTED	APVD:	WBM	DATE:	17/02/23

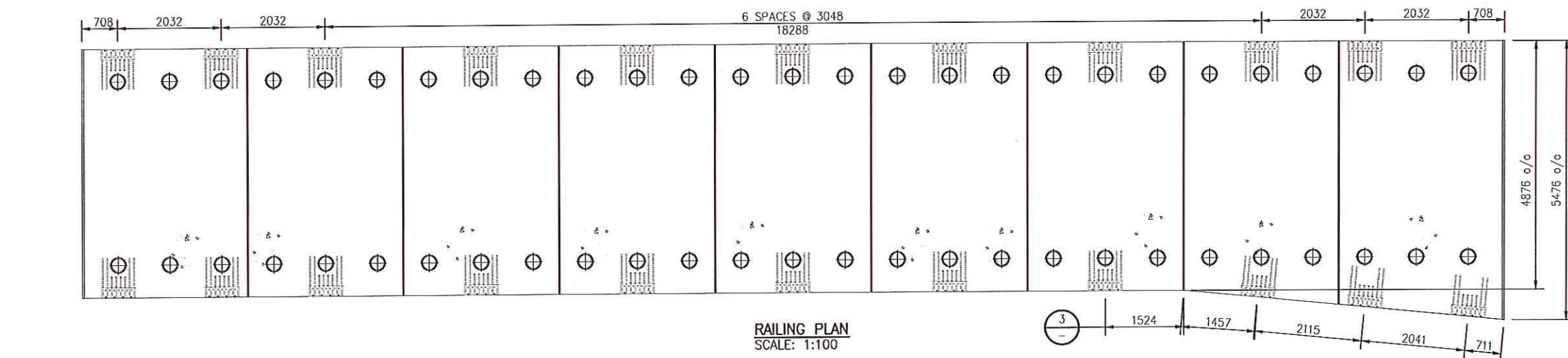
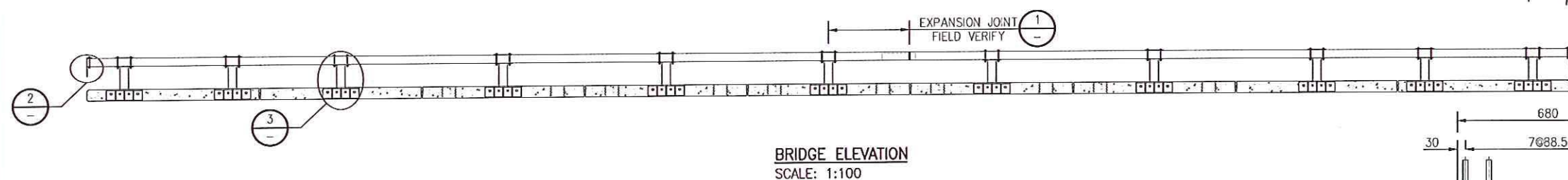
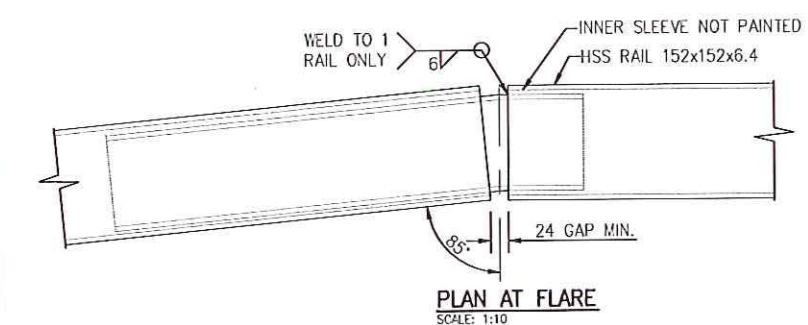
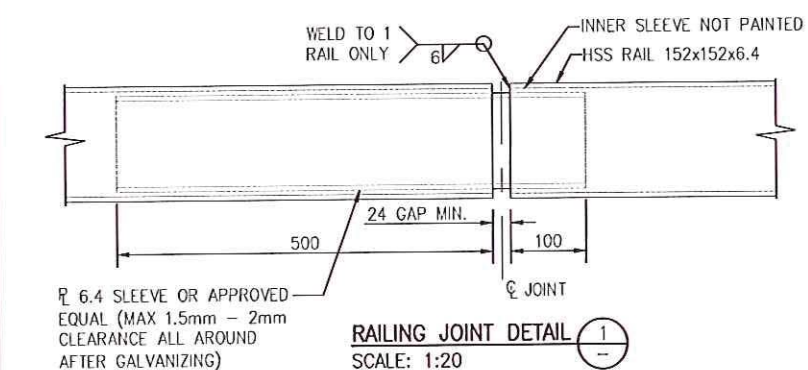
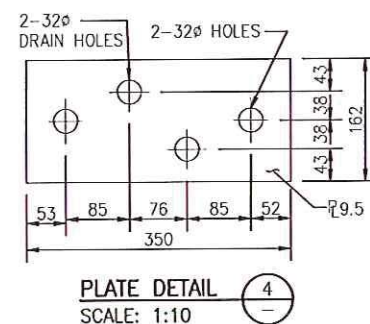
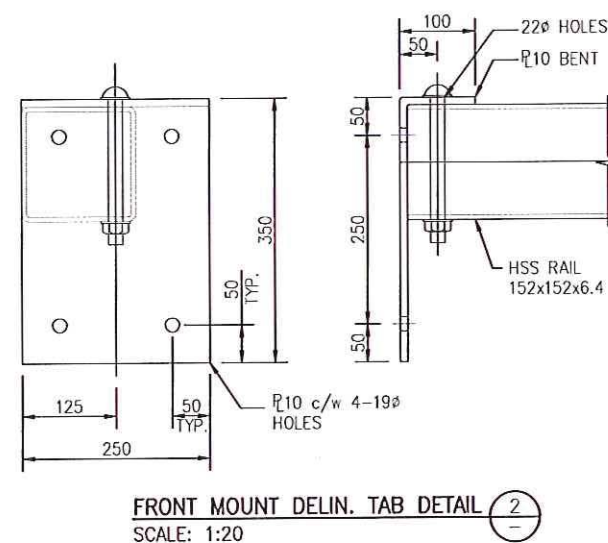
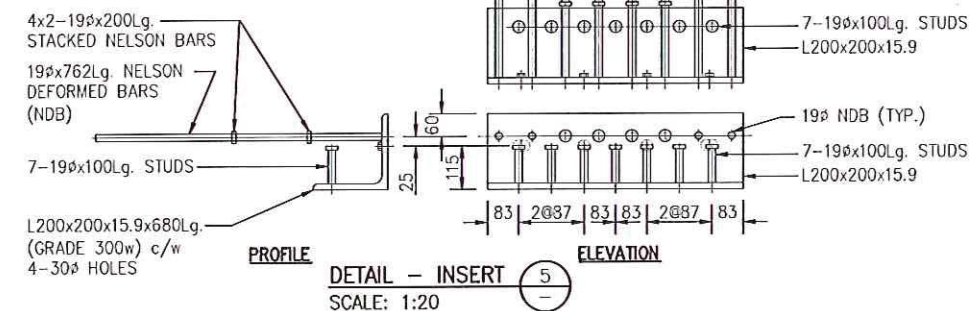
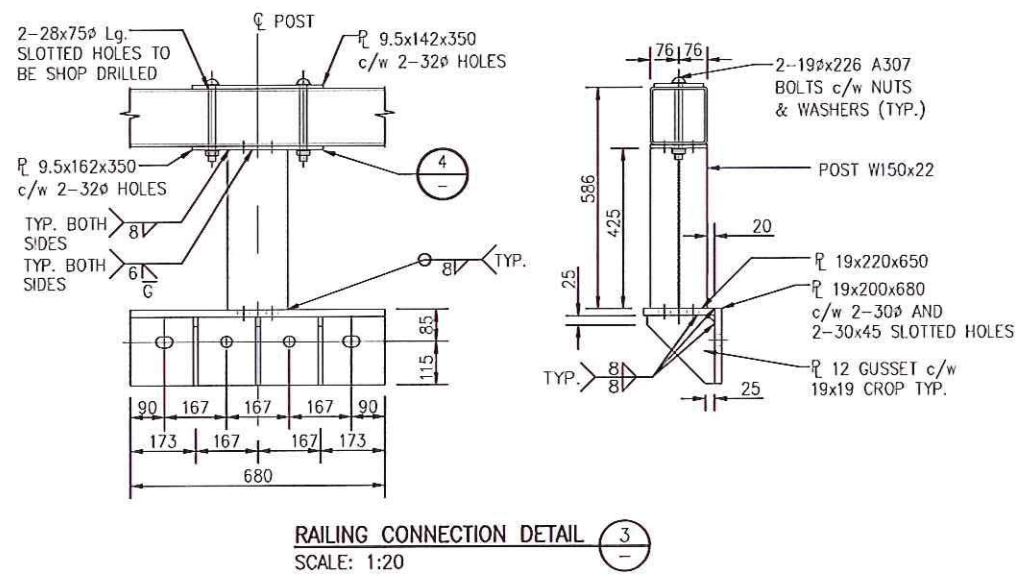
PROJECT:

**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

TITLE:

BEARING ASSEMBLIES
400x500mm

DWG NO: 17GP0040-000-1960-010	REV: 3
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[illegible]

NOTE:
1. FOR NOTES AND SPECIFICATIONS REFER TO
DRAWING 17GP0040-000-1960-001



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[illegible]

CLIENT NO:	-	DRWN:	TJB	DATE:	17/02/1
PROJECT NO:	17GP0040	DSGN:	DY	DATE:	17/02/1
DRAWING SIZE:	ANSI "B"	CHKD:	DY	DATE:	17/02/2
SCALE:	AS NOTED	APVD:	W&M	DATE:	17/02/2

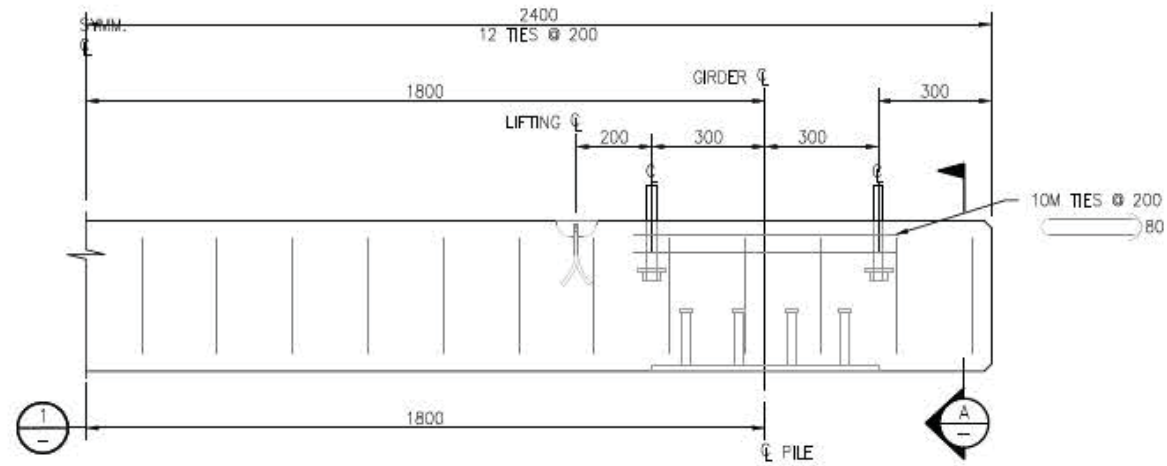
**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

TITLE

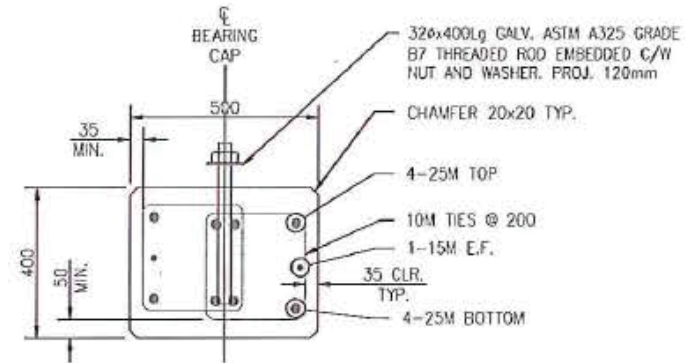
RAILING DETAILS

DWG NO.	REV.
17GP0040-000-1960-011	2

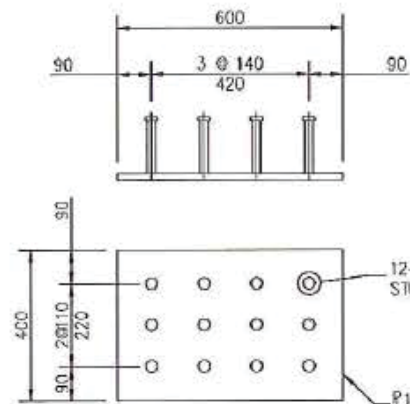
DWG NO. 17GP0040-000-1960-012 | User: T. J. B. | Date: 2017-03-01 | File: P:\DWG\2017\03\17GP0040-000-1960-012.dwg | Plot: P:\DWG\2017\03\17GP0040-000-1960-012.dwg | Layer: 32 | Paper Size: 360mm x 480mm



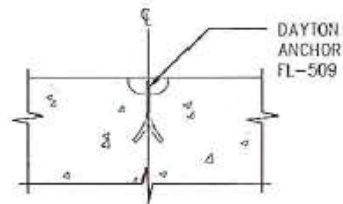
PRECAST CONCRETE PILE CAP
SCALE: 1:20



SECTION A
SCALE: 1:20



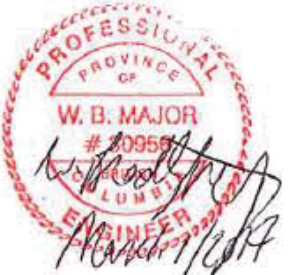
DETAIL - EMBEDDED PLATE 1
SCALE: 1:20



DETAIL - LIFTING INSERT (REAR FACE) 2
SCALE: 1:20

REFERENCE DRAWINGS		
DRAWING NO.	DRAWING DESCRIPTION/TITLE	REF.

NOTE:
1. FOR NOTES AND SPECIFICATIONS REFER TO DRAWING 17GP0040-000-1960-001
2. ESTIMATED WEIGHT = 1180Kg.



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REV.	DATE	DESCRIPTION	DRWN.	APVD.
0	17/03/01	ISSUED FOR CONSTRUCTION	TJB	WBM



CLIENT NO.	-	DRW2	TJB	DATE: 17/02/18
PROJECT NO.	17GP0040	DSG2	DT	DATE: 17/02/18
DRAWING SIZE	ANSI "B"	CHKD.	DT	DATE: 17/03/01
SCALE	AS NOTED	APVD.	WBM	DATE: 17/03/01

PROJECT:
**FINDLAY CREEK
27.432m STEEL/CONCRETE
BCL-625 BRIDGE
MFR STRUCTURE ID: N2-038A**

TITLE:
**PRECAST CONCRETE CAP
BEAM 400x500x4800**

DWG NO.	17GP0040-000-1960-012	REV.	0
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