

MOUNT ALEXANDER SHIRE COUNCIL VAUGHAN-TARILTA ROAD BRIDGE DESIGN UPGRADE

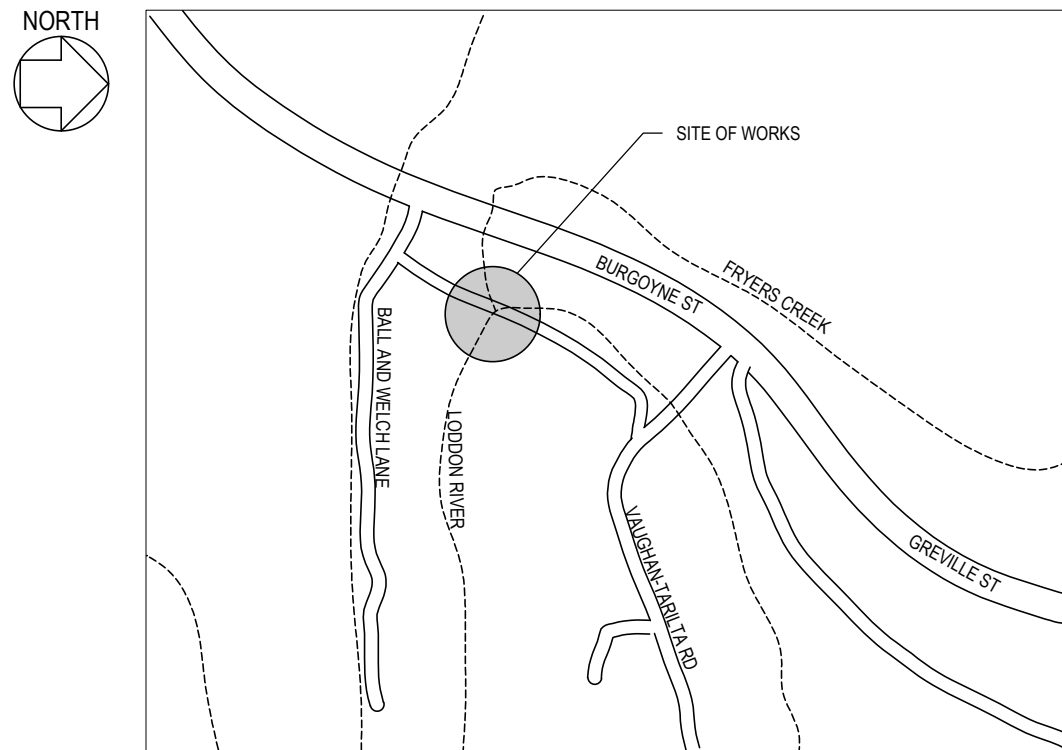


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CAUTION

THIS DRAWING IS BASED ON SURVEY THAT IS INCOMPLETE AND NOT VERIFIED. THE EXISTING SURFACE MAY VARY FROM THAT INDICATED AND SOME FEATURES MAY NOT BE SHOWN

WARNING

BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND/OVERHEAD SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN



The Essential First Step.

FOR TENDER
NOT FOR CONSTRUCTION

DRAWING REVISION HISTORY					APPROVED	SCALE (PLOTTED FULL SIZE)	SHEET SIZE	CLIENT	DRAWING TITLE	
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED						DATE
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023	ORIGINAL COPY ON FILE "e" SIGNED BY		PROJECT	VAUGHAN-TARILTA ROAD BRIDGE	
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018					<p>pitt&sherry</p> <p>pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309</p> <p><small>© 2021 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.</small></p>
<p>DATUMS: AHD / MGA</p> <p>DRAWING No. S-P.23.0690-00-STR-DRG-S301</p> <p>Aug. 4, 23 - 12:46:41 Name: P.23.0690-00-STR-DRG-S301.dwg Updated By: Adrian Brunato</p>									CLIENT No.	-
									REVISION	B

File Name: C:\1205\DATA\002\PSVS\001\05_P.23.0690 - MOUNT ALEXANDER - VAUGHAN-TARILTA ROAD BRIDGE DESIGN UPGRADE - 1920DWGACAD\STRIP.23.0690-00-STR-DRG-S301.DWG Plot Date: 4/8/2023 12:46:41 PM

GENERAL

- CONTRACTOR SHALL CONFIRM ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART BE OVERSTRESSED DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL WORK SITES IN A SAFE AND STABLE CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY WORKS.
- WORKMANSHIP & MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION WHICH SHALL TAKE PRECEDENCE OVER ANY RELEVANT STANDARDS, DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATION.
- SETTING OUT AND OFF-SITE FABRICATION DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS.
- ALL DIMENSIONS RELEVANT TO SETTING OUT SHALL BE CONFIRMED AND VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION IS COMMENCED. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT.
- THE CONTRACTOR SHALL UNDERTAKE INVESTIGATION WORK PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE POSSIBLE LOCATION OF FURTHER SERVICES AND DETAILED LOCATION AND DEPTH OF ALL SERVICES AND ARRANGE FOR THEIR RELOCATION WHERE NECESSARY.
- THE CONTRACTOR SHALL ONLY BUILD FROM DRAWINGS WITH STATUS OF "FOR CONSTRUCTION". DRAWINGS HAVING ANY OTHER STATUS, INCLUDING "WORK IN PROGRESS" AND "FOR APPROVAL", MAY BE SUBJECT TO CHANGE.
- NOMINATION OF PROPRIETY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL. INSTALL PROPRIETY ITEMS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER ANY DISCREPANCY TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- U.N.O. DENOTES UNLESS NOTED OTHERWISE.
- C.O.S. DENOTES CONFIRM ON SITE.
- EJ DENOTES EXPANSION JOINT.

DESIGN SPECIFICATIONS

- BRIDGE DESIGN STANDARD : AS5100-2017
- DESIGN LOADS : SM1600
- DESIGN/OPERATION SPEED : 50km/hr.
- WIND LOAD (TO AS5100.2-2017 AND AS1170.2-2011):
V2000 = 48m/s (ULS BASIC DESIGN WIND SPEED)
V20 = 37m/s (SLS BASIC DESIGN WIND SPEED)
WIND REGION A1
TERRAIN CATEGORY 2
- WATER FLOW FORCES
HYDRAULICS ASSESSMENT HAS NOT BEEN UNDERTAKEN. BRIDGE DESIGNED FOR THE FOLLOWING NOMINAL VALUES:
V = 3m/s
DEBRIS MAT HEIGHT= 2m
- EARTHQUAKE LOAD (TO AS5100.2-2017 AND AS1170.4-2007):
BRIDGE IMPORTANCE LEVEL OF 3
BEDC - 3
PROBABILITY OF EXCEEDANCE OF 1/1000 FOR ULS
PROBABILITY FACTOR: Kp = 1.3
HAZARD FACTOR: Z = 0.09
SITE SUB-SOIL CLASS: De
- NO BARRIER:
TRAFFIC VOLUME CONSIDERED IS LESS THAN 150 VEHICLES PER DAY.
NO DESIGN FOR PEDESTRIAN TRAFFIC.

DESIGN REFERENCES

- BRIDGE HYDRAULIC INFORMATION
DOCUMENT No. : NCCMA REF F-2018-0112
DATE: 08 FEBRUARY 2018
FLOOD LEVEL FOR THE 1% AEP PROBABILITY (100 YEAR ARI) : NOT AVAILABLE
- GEOTECHNICAL REPORT DONE BY BLACK GEOTECHNICAL
REPORT No. : V1844R1
DATE: 20 FEBRUARY 2018

DIMENSIONS

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- CHAINAGES & COORDINATES ARE ALL IN METERS.
- ALL COORDINATES ARE IN ARBITRARY COORDINATE SYSTEM BASED ON THE SURVEY PROVIDED BY VERIS (DRG. M02041P2 REV00).
ALL REDUCED LEVELS ARE TO ARBITRARY HEIGHT SYSTEM BASED ON THE SURVEY PROVIDED BY VERIS (DRG. M02041P2 REV00).
- DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS.
- ANY DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE SUPERINTENDENT.
- THIS DESIGN IS BASED ON SURVEY INFORMATION PROVIDED BY VERIS (DRG. M02041P2 REV00).

CHAMFERS AND FILLETS

- UNLESS NOTED OTHERWISE, ALL EXPOSED CONCRETE EDGES HAVING A CONTAINED ANGLE LESS THEN 120° SHALL BE PROVIDED WITH 20mm FILLETS OR CHAMFERS AS APPROPRIATE.

CONSTRUCTION JOINTS

- CJ DENOTES CONSTRUCTION JOINT
- CONSTRUCTION JOINTS SHALL BE USED ONLY AS SHOWN ON THE DRAWINGS.
- NO CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE OMITTED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT. CONTRACTORS SHALL ALLOW FOR ALL NECESSARY CONSTRUCTION JOINTS.

REINFORCEMENT

- REINFORCEMENT SYMBOLS:
 - N - HOT ROLLED DEFORMED BARS TO AS4671 GRADE 500N
 - R - STRUCTURAL GRADE PLAIN ROUND BAR TO AS 4671 GRADE 250
- ALL REINFORCEMENT IS DESIGNATED AS FOLLOWS:
e.g. 8 N12-150 T
 - THE NUMBER PRECEDING THE BAR SYMBOL (8) IS THE NUMBER OF BARS
 - THE NUMBER FOLLOWING THE BAR SYMBOL (12) IS THE NOMINAL BAR DIAMETER IN MILLIMETRES
 - THE NUMBER FOLLOWING THE 'DASH' (150) IS THE SPACING IN MILLIMETRES
 - THE LETTER FOLLOWING THE SPACING (T) IS THE LOCATION OF THE BAR IN THE ELEMENT AS FOLLOWS:

T	TOP
B	BOTTOM
NF	NEAR FACE
FF	FAR FACE
EF	EACH FACE
LV	LENGTH VARIES
EW	EACH WAY

- REINFORCEMENT SPACING NOT SHOWN SHALL BE TAKEN AS EQUAL.
- REINFORCING BAR SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- BARS SHOWN MAY REPRESENT MORE THAN ONE LENGTH AND/OR PROFILE.
- BARS MAY NOT BE SHOWN IN TRUE POSITION FOR CLARITY.
- ALL HOOKS, BEND AND COGS ARE STANDARD AND SHALL BE IN ACCORDANCE WITH AS5100 BRIDGE DESIGN 2004 UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT IS DIMENSIONED OUT-TO-OUT ALONG EACH STRAIGHT PORTION OF THE BAR.
- WELDING OF REINFORCEMENT NOT PERMITTED UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT IS DESIGNATED AS FOLLOWS UNLESS IT IS DESCRIBED FULLY IN ACCORDANCE WITH AS 4671 SECTION 5.

SYMBOL	DESCRIPTION	TYPE TO AS 4671
SL	MESH-SQUARE GRID	D500L
RL	MESH-RECTANGULAR GRID	D500L
R	PLAIN BARS	R250N
S	DEFORMED BARS	D250N
N	DEFORMED BARS	D500N

FULL DESCRIPTION EXAMPLE : D500N16 (16 DIA DEFORMED BAR)

LAP LENGTHS FOR REINFORCEMENT

- LAPS AND OTHER SPLICES IN REINFORCEMENT SHALL ONLY BE MADE AT THE POSITION SHOWN ON THE DRAWINGS, UNLESS ALTERNATIVE OR EXTRA LOCATIONS ARE APPROVED IN WRITING BY THE SUPERINTENDENT. LAP LENGTHS SHALL BE AS TABULATED BELOW UNLESS SHOWN OTHERWISE ON THE DRAWINGS:

BAR DIAMETER	MIN. LAP LENGTH
12	300
16	500
20	750
24	1000
28	1250
32	1550
36	1850

(NOTE: THE MINIMUM LAP LENGTH SHOWN SHALL BE INCREASED BY 25% FOR HORIZONTAL BARS WITH 300mm OR MORE CONCRETE CAST BELOW THE BAR.)

- REINFORCEMENT SPLICES SHALL BE STAGGERED AND NO MORE THAN 50% OF SPLICES SHALL BE AT ANY ONE SECTION UNLESS SHOWN OTHERWISE.
- WHERE MORE THAN HALF THE BARS ARE SPLICED AT ANY ONE SECTION, THE SPLICE LENGTHS SHALL BE INCREASED BY 30%.

CONCRETE

- CONCRETE BLINDING LAYERS SHALL BE MINIMUM 50 THICK.
- MAXIMUM AGGREGATE SIZE SHALL BE 20mm.
- CONCRETE TO BE USED IN EACH ELEMENT OF THE WORK SHALL BE OF THE GRADE SHOWN BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE GRADE DESIGNATION SPECIFIES THE CONCRETE STRENGTH.
- EXPOSURE CLASSIFICATION B1 (TYPICAL).

ELEMENT	CONCRETE GRADE	CHARACTERISTIC COMP. STRENGTH AT 28 DAYS (MPa)	MIN. COVER (mm)
ABUTMENTS	VR 400/40	40	40, 70*
PRECAST PLANKS	VR 450/50	50	35**
DECK	VR 400/40	40	45(T), 35(B)
APPROACH SLABS	VR 400/40	40	40, 70*
PRECAST PILES	VR 450/50	50	40
PIERS	VR 400/40	40	40

* ELEMENTS CAST AGAINST GROUND.

** RIGID FORMWORK AND INTENSE COMPACTION TO BE USED.

PILES

- SHOWN PILE TOE LEVELS ARE INDICATIVE ONLY AND ACTUAL PILE LENGTHS MAY VARY FROM THOSE INDICATED AS NECESSARY TO ACHIEVE THE REQUIRED PILE CAPACITY WITHIN THE VARYING SOIL CONDITIONS.

STRUCTURAL STEELWORK

- ALL WORKMANSHIP AND MATERIALS SHALL BE ACCORDANCE WITH AS 5100.
- WELDING SHALL BE PERFORMED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH AS 1554.
- STRUCTURAL STEEL SHALL BE GRADE 300, UNLESS NOTED OTHERWISE.
- BOLTS AND NUTS TO AS 1252 GRADE 8.8/S UNLESS NOTED OTHERWISE. WASHERS TO AS 1237.
- STEEL PLATE SHALL BE GRADE 350 & COMPLY WITH AS 3678, UNLESS NOTED OTHERWISE.
- SHS, RHS & CHS SHALL BE GRADE 350 AND COMPLY WITH AS 1163, UNLESS NOTED OTHERWISE.
- ALL BOLTS, NUTS & WASHERS TO BE HOT DIPPED GALV.
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE.
- ALL STEELWORK SHALL BE HOT DIPPED GALV. AFTER FABRICATION.
- GALVANIZING SHALL COMPLY WITH AS/NZS 4680.
- WELDING SHALL BE CATEGORY SP WITH E48XX ELECTRODES TO COMPLY WITH AS/NZS 1554-PART 1.
- CAST-IN ANCHOR ASSEMBLY SHALL BE HOT-DIP GALVANIZED. AFTER ASSEMBLY, GALVANIZED SURFACES SHALL BE RENOVATED WITH TWO PACK INORGANIC ZINC-RICH PRIMER.
- BOLT TYPES SHALL BE AS FOLLOWS :
 - ALL BOLTS SHALL BE HOT DIP GALVANISED TO AS/NZS 4680:1999.
 - 4.6/S COMMERCIAL BOLTS TO AS 1111, SNUG TIGHTENED.
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS, WITH BOLTS, NUTS AND HARDENED WASHER TO AS 5100.6 / AS 1252:1996.
 - 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS 5100.6 IN A BEARING TYPE JOINT.
 - 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS 5100.6 IN A FRICTION TYPE JOINT AND U.N.O. WITH FAYING SURFACES LEFT UNCOATED.
- SLOTTED HOLES AND WASHERS TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AS 5100.6
- THE LENGTH OF A BOLT SHALL BE SUCH THAT AT LEAST ONE CLEAR THREAD SHOWS ABOVE THE NUT AND AT LEAST ONE THREAD PLUS THE THREAD RUN OUT IS CLEAR BEYOND THE NUT AFTER TIGHTENING.
- ONE FULL AND ONE HALF NUT MUST BE USED IN ORDER TO ACHIEVE A SOUND LOCKING MECHANISM TO PREVENT VIBRATION LOOSENING.

SAFETY IN DESIGN

- FOR SAFETY IN DESIGN REFER TO THE BRIDGE DESIGN REPORT P.23.0690-00-STR-DRG-M003 REP 16P.

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File Name: C:\1205\SDA\TA002\SP\SVS001\S-P.23.0690 - MOUNT ALEXANDER - VAUGHAN-TARILTA ROAD BRIDGE DESIGN I.P.GRADE - 1920DWGACAD\STRIP-23.0690-00-STR-DRG-S302.DWG Plot Date: 4/8/2023 12:46:43 PM

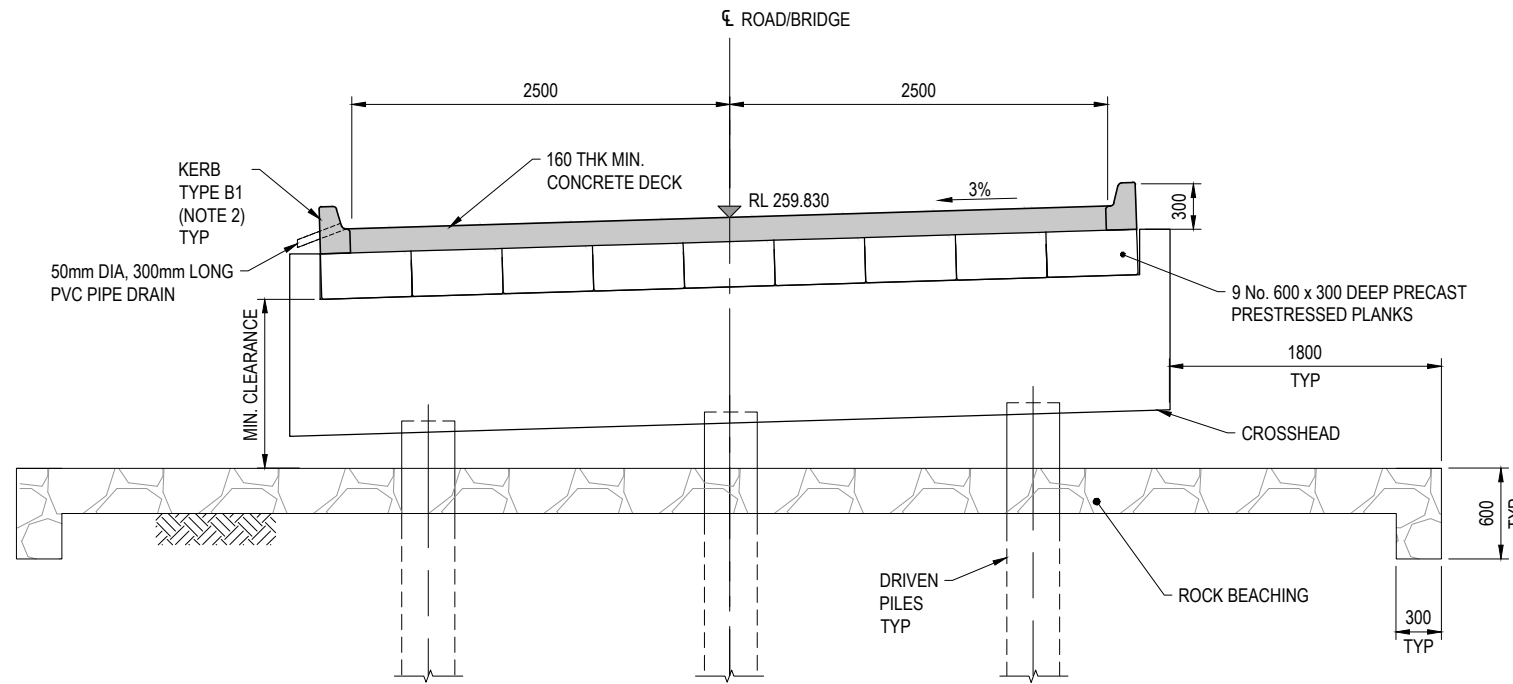
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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED						DATE	N.T.S.	A3	MOUNT ALEXANDER SHIRE COUNCIL
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023	SIGNED		PROJECT	VAUGHAN-TARILTA ROAD BRIDGE	DATUMS:	AHD / MGA	CLIENT No.	
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018					DATE			
										Aug. 4, 23 - 12:46:43 Name: P.23.0690-00-STR-DRG-S302.dwg Updated By: Adrian Brunato			

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FOR TENDER



TYPICAL BRIDGE SECTION

SECTION 1
SCALE 1:50 S303

NOTES

- FOR GENERAL NOTES, REFER TO DRAWING P.23.0690-00-STR-DRG-S302.
- FOR KERB DETAILS, REFER TO VICROADS STANDARD DRAWING SD2001.

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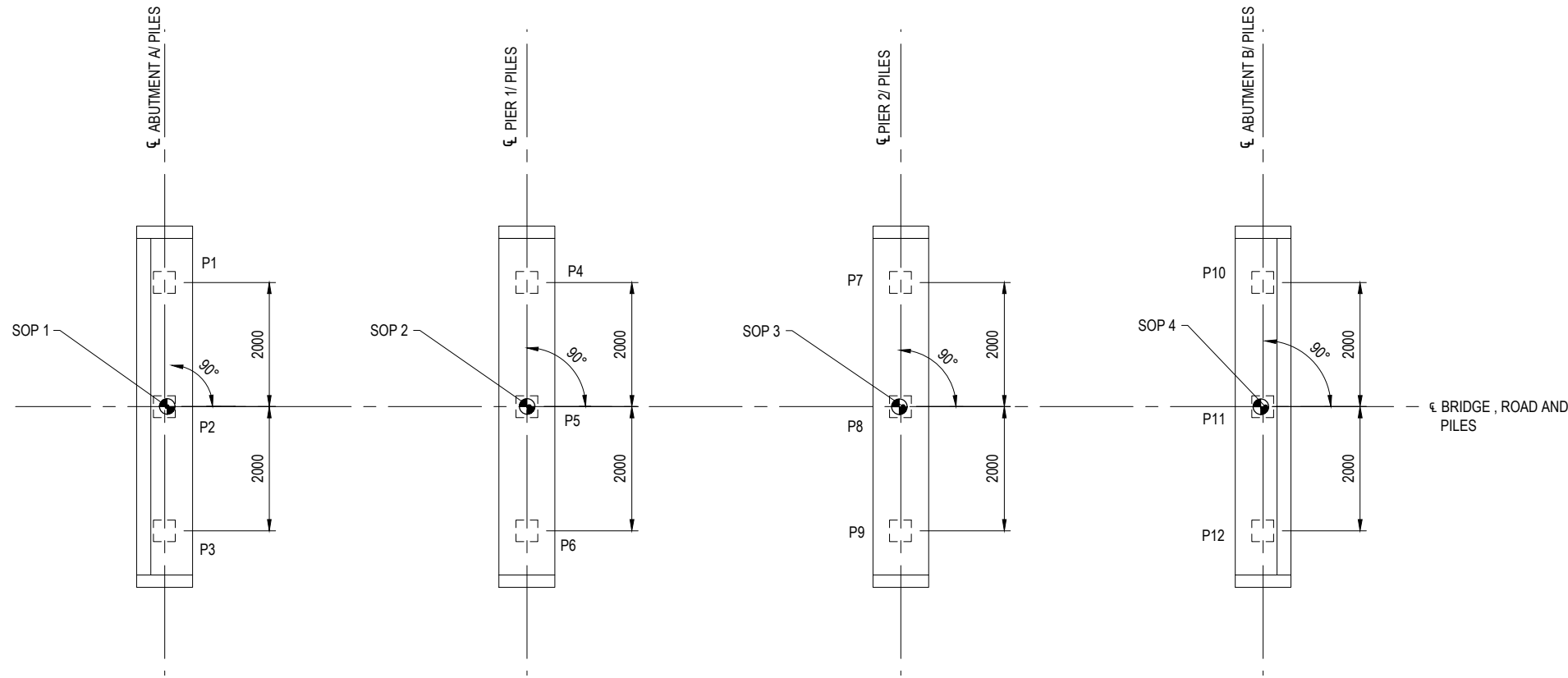
The Essential First Step.



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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED						
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023	ORIGINAL COPY ON FILE "e" SIGNED BY	A3	MOUNT ALEXANDER SHIRE COUNCIL	SECTION	
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018					
DATE					SIGNED			PROJECT VAUGHAN-TARILTA ROAD BRIDGE	DATUMS: AHD / MGA CLIENT No.	
					DATE					

File Name: C:\1205\SDA\TA\02P\S\05\01\05_P.23.0690 - MOUNT ALEXANDER - VAUGHAN-TARILTA ROAD BRIDGE DESIGN UPGRADE - 1920DWGACAD\STRIP.23.0690-00-STR-DRG-S304.DWG
Plot Date: 4/8/2023 12:46:45 PM



FOUNDATION PLAN
SCALE 1:100

SETOUT POINTS		
POINT	EASTING	NORTHING
SOP 1	252152.849	5884063.491
SOP 2	252157.242	5884059.647
SOP 3	252161.775	5884055.679
SOP 4	252166.168	5884051.834

PILE SCHEDULE		
PILE No.	TOP CUT OFF RL	ESTIMATED TOE RL
P1	258.607	249.697
P2	258.520	249.610
P3	258.433	249.523
P4	258.607	249.697
P5	258.520	249.610
P6	258.433	249.523
P7	258.607	249.697
P8	258.520	249.610
P9	258.433	249.523
P10	258.607	249.697
P11	258.520	249.610
P12	258.433	249.523

NOTES

- FOR GENERAL NOTES REFER TO DRG. P.23.0690-00-STR-DRG-S302.
- ALL PILES ARE TO BE INSTALLED VERTICALLY.
- REFER TO DRG. P.23.0690-00-STR-DRG-S306 FOR PILE DETAILS.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY BLACK GEOTECHNICAL (REPORT No. V1844R1/20 FEBRUARY 2018).
- SETOUT POINTS ARE LOCATED ON INTERSECTIONS OF BRIDGE CENTERLINE AND PIER OR ABUTMENT CENTERLINE.

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A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018

APPROVED
ORIGINAL COPY ON FILE "e" SIGNED BY
SIGNED
DATE

SCALE (PLOTTED FULL SIZE) AS SHOWN

SHEET SIZE A3

Mount Alexander Shire Council

pitt&sherry

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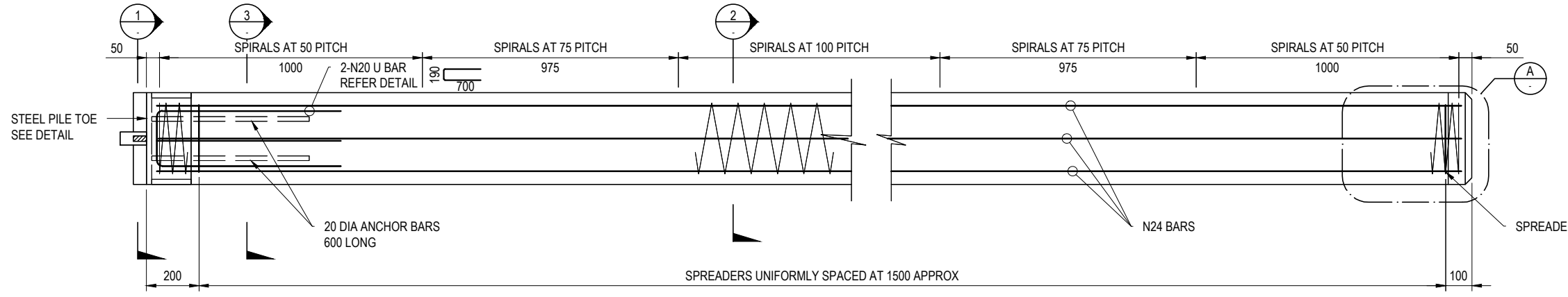
CLIENT MOUNT ALEXANDER SHIRE COUNCIL

PROJECT VAUGHAN-TARILTA ROAD BRIDGE

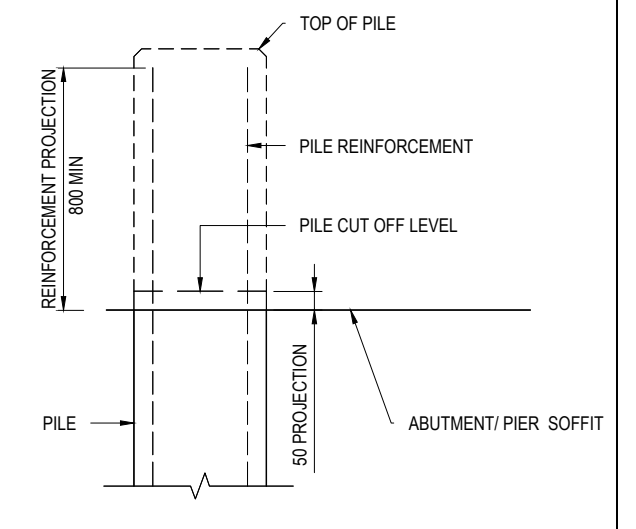
STATUS **FOR TENDER**

DRAWING TITLE	
FOUNDATION LAYOUT	
DATUMS: AHD / MGA	CLIENT No. -
DRAWING No. S-P.23.0690-00-STR-DRG-S305	REVISION B
Aug. 4, 23 - 12:46:47 Name: P.23.0690-00-STR-DRG-S305.dwg Updated By: Adrian Brunato	

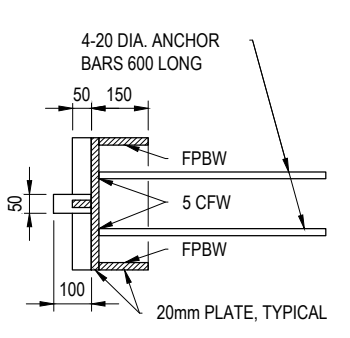
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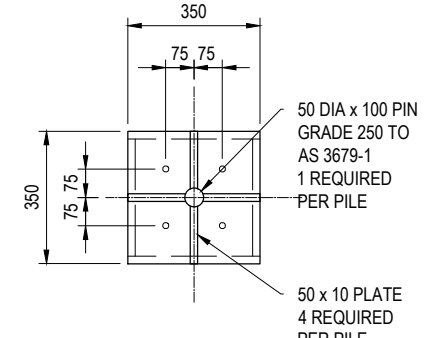
PILE ELEVATION
SCALE 1:20



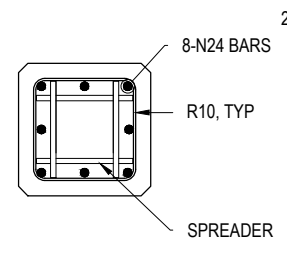
TYPICAL PILE CUT OFF LEVEL DETAIL
SCALE 1:20



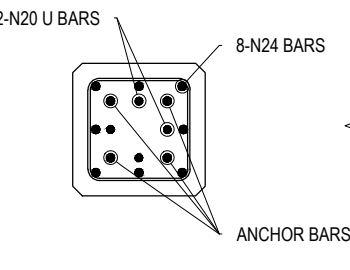
STEEL PILE TOE DETAIL
SCALE 1:20



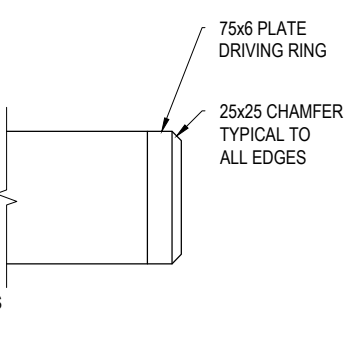
SECTION 1
SCALE 1:20



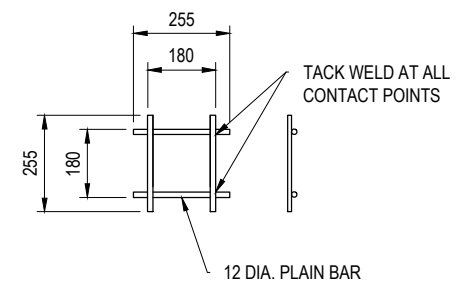
SECTION 2
SCALE 1:20



SECTION 3
SCALE 1:20



DETAIL A
SCALE 1:20



SPREADER
SCALE 1:20

PILE LOAD - N (kN)					
LOCATION	ULTIMATE LIMIT STATE DESIGN AXIAL LOAD (kN)	ULTIMATE BENDING MOMENT (kNm)	ULTIMATE SHEAR (kN)	P.D.A. TESTING	
				REPRESENTATIVE PILE	REPRESENTED PILE
ABUTMENTS	370	90	150	672	903
PIER	370	90	150	672	903

PILE LOAD NOTES

- REFER TO VICROADS STANDARD DOCUMENT SECTION 605 FOR PILE SPECIFICATION TESTING REQUIREMENTS.
- $N^* = N\phi$
 N^* - ULTIMATE LIMIT STATE DESIGN AXIAL LOAD PER PILE.
 N - CHARACTERISTIC ULTIMATE AXIAL RESISTANCE PER PILE.
 ϕ - MATERIAL FACTOR
- THE FOLLOWING PARTIAL MATERIAL FACTORS HAVE BEEN USED.
 REPRESENTATIVE PILES;
 $\phi_1 = 0.8$ (ASSUMED CAPWAP ANALYSIS OR SIMILAR)
 $\phi_2 = 1.0$ (NO SPLICING JOINT)
 REPRESENTED PILES
 $\phi_3 = 0.7$ (ASSUMED DRIVEN TO SELECTED SET)
 $\phi_4 = 0.85$ (VARIATION IN SOIL PROFILE)
 $\phi_5 = 1.0$ (NO SPLICING JOINT)
 $\phi_6 = 1.0$ (ASSUME 15% OF PILES TO BE LOAD TESTED)

NOTES

- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
- CONCRETE EXPOSURE CLASSIFICATION B1.
- CONCRETE EDGES SHALL BE CHAMFERED 25x25 mm.
- COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 40mm.
- THE MINIMUM SPECIFIED COVER IS BASED ON THE PILE BEING CAST IN RIGID FORMWORK WITH INTENSE COMPACTION USING VIBRATING TABLE OR FORM VIBRATORS.
- MINIMUM LAP LENGTH OF SPIRAL SHALL BE 1.5 TURNS.
- END OF SPIRAL AT PILE HEAD AND TOE SHALL BE ANCHORED BY A HOOK AROUND A MAIN BAR AND 300mm (MINIMUM) EXTENSION INTO CORE CONCRETE.
- THE NOMINATED LOADS APPLY TO THE STRUCTURE AS DESIGNED. ANY PROPOSED CHANGES TO THE PILES AND PILE LAYOUT MAY SIGNIFICANTLY ALTER THE BEHAVIOUR OF THE STRUCTURE, AND MUST BE SUBMITTED TO THE PRINCIPAL FOR APPROVAL PRIOR TO COMMENCEMENT OF PILING OPERATIONS.
- PILES SHALL BE PROJECTED 50mm INTO CROSSHEAD AND PILE CAPS.
- PILE REINFORCEMENT SHALL PROJECT 800mm MIN. INTO ABUTMENT CROSSHEADS OR PILE CAPS.
- PILE CAPACITY TO BE ASSESSED ON SITE USING PILE DRIVING ANALYSER. ONE PILE IN EACH GROUP SHALL BE DRIVEN AND TESTED.
- ALL PILES SHALL BE DRIVEN TO EFFECTIVE REFUSAL INTO SILTSTONE STRATUM.
- IF THE REQUIRED DESIGN LOAD IS NOT ATTAINED WHEN A PILE HAS BEEN DRIVEN TO THE REQUIRED FOUNDING LEVEL, PILE DRIVING SHALL CEASE. THE PILE SHALL BE LEFT FOR 48 HOURS TO ALLOW FOR SET-UP TO DEVELOP. THE ACTUAL PILE CAPACITY SHALL THEN BE VERIFIED BY RE-STRIKE.
- REFER TO GEOTECHNICAL REPORT No. V1844R1 BY BLACK GEOTECHNICAL DATED 20 FEBRUARY 2018 FOR SUBSURFACE CONDITIONS.

CAUTION
THIS DRAWING IS BASED ON SURVEY THAT IS INCOMPLETE AND NOT VERIFIED. THE EXISTING SURFACE MAY VARY FROM THAT INDICATED AND SOME FEATURES MAY NOT BE SHOWN

WARNING
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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018

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SIGNED
DATE

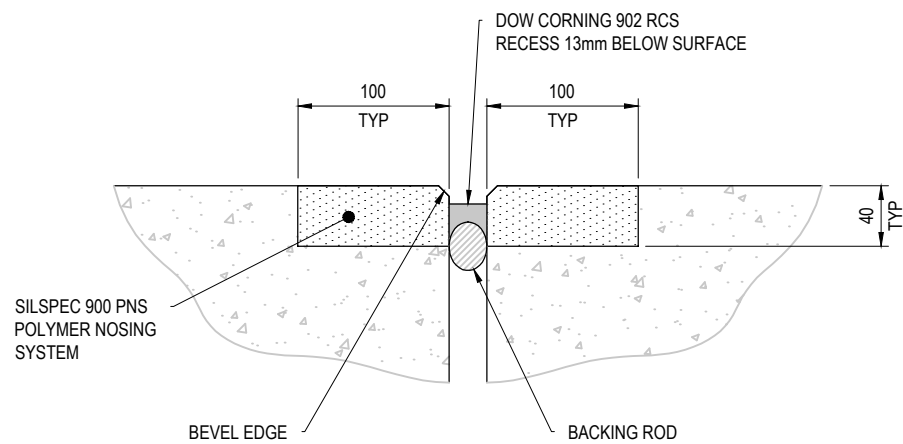
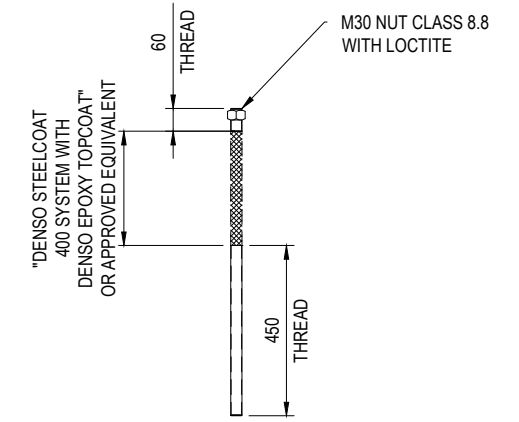
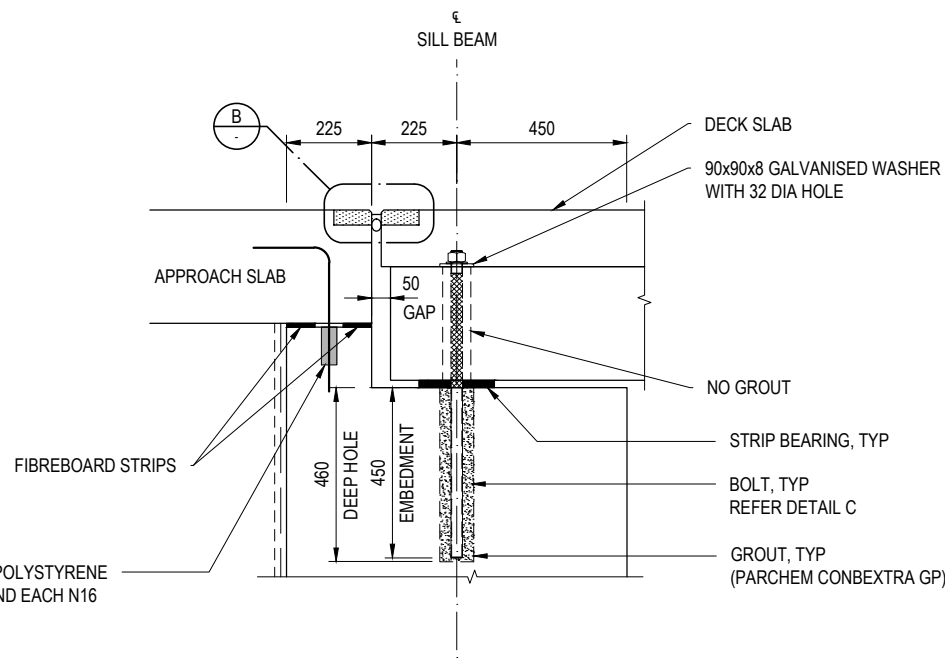
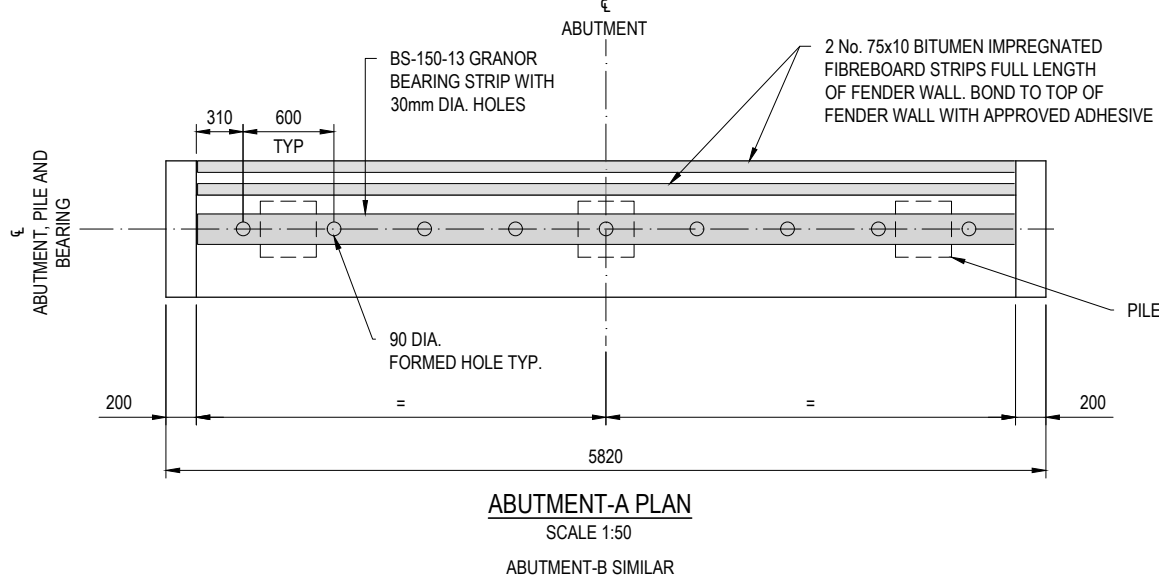
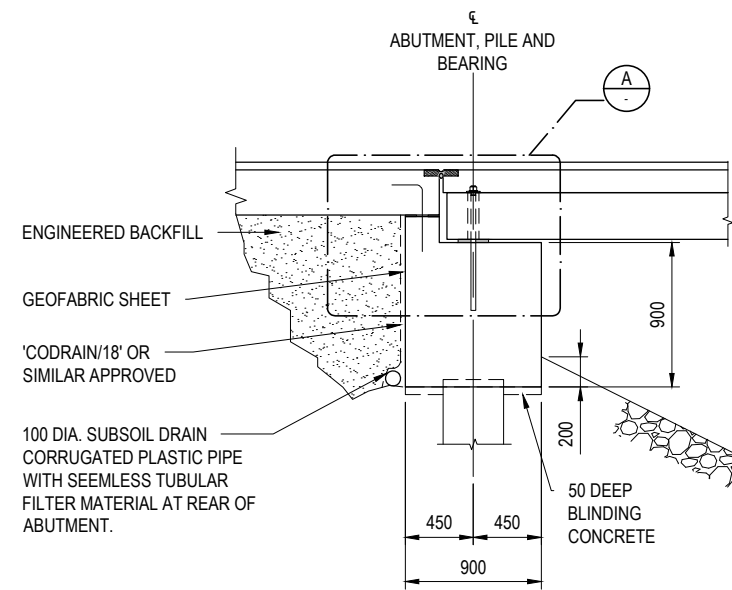
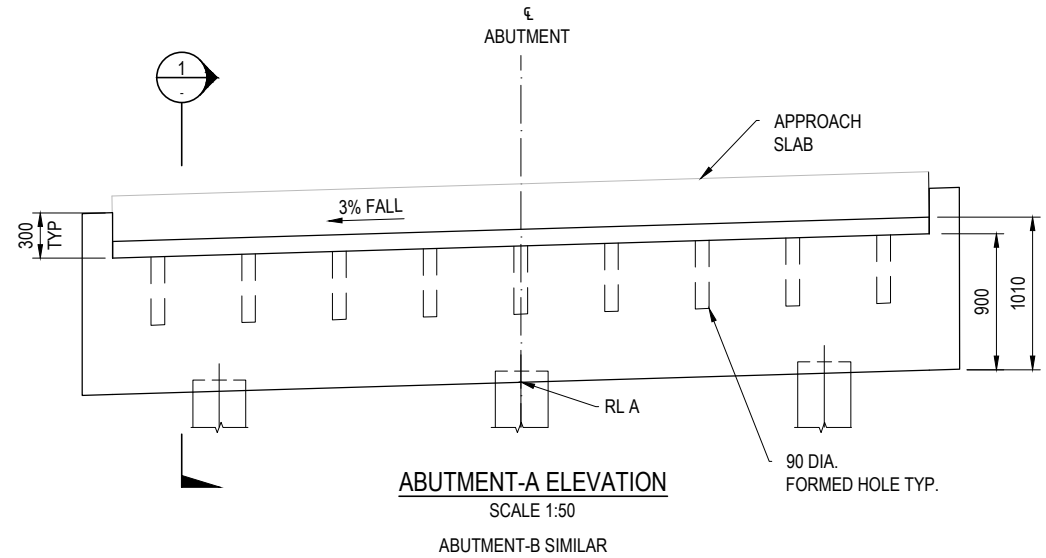
SCALE (PLOTTED FULL SIZE) AS SHOWN
SHEET SIZE A3
Mount Alexander Shire Council logo

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CLIENT MOUNT ALEXANDER SHIRE COUNCIL
PROJECT VAUGHAN-TARILTA ROAD BRIDGE
STATUS **FOR TENDER**

DRAWING TITLE	
PILE DETAILS	
DATUMS: AHD / MGA	CLIENT No.
DRAWING No. S-P.23.0690-00-STR-DRG-S306	REVISION B
Aug. 4, 23 - 12:46:49 Name: P.23.0690-00-STR-DRG-S306.dwg Updated By: Adrian Brunato	

File Name: C:\1205\SDA\TARILTA\02\STR\01\05\23\0690 - MOUNT ALEXANDER - VAUGHAN-TARILTA ROAD BRIDGE DESIGN\UPGRADE - 1920DWG\ACAD\STR\23\0690-00-STR-DRG-S306.DWG
Plot Date: 4/8/2023 12:46:49 PM



40 DIA x 100 DEEP POLYSTYRENE FOAM CORE AROUND EACH N16 GALV BAR

	REDUCED LEVELS
LOCATION	A
ABUTMENT A	258.470
ABUTMENT B	258.470



- NOTES**
- REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.
 - FOR SETOUT POINTS REFER TO DRAWING P.23.0690-00-STR-DRG-S305.

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No.	DESCRIPTION					ORIGINAL COPY ON FILE "e" SIGNED BY
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023	SIGNED
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018	DATE

SCALE (PLOTTED FULL SIZE) AS SHOWN

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CLIENT MOUNT ALEXANDER SHIRE COUNCIL

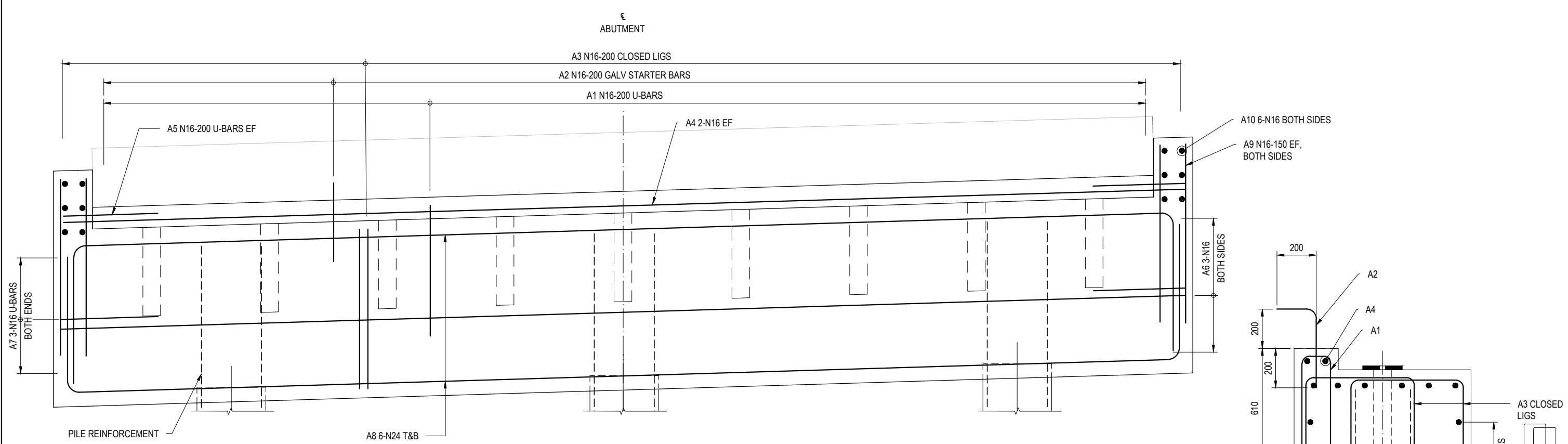
PROJECT VAUGHAN-TARILTA ROAD BRIDGE

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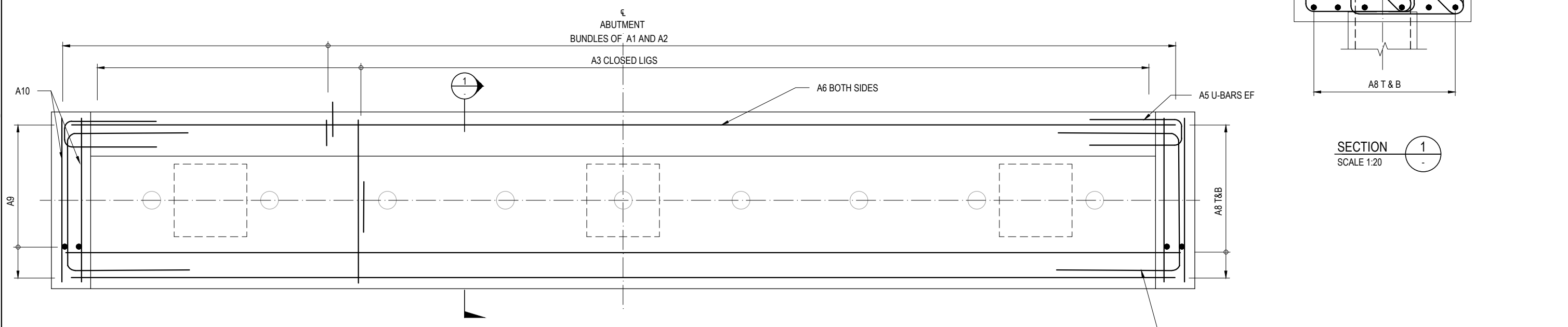
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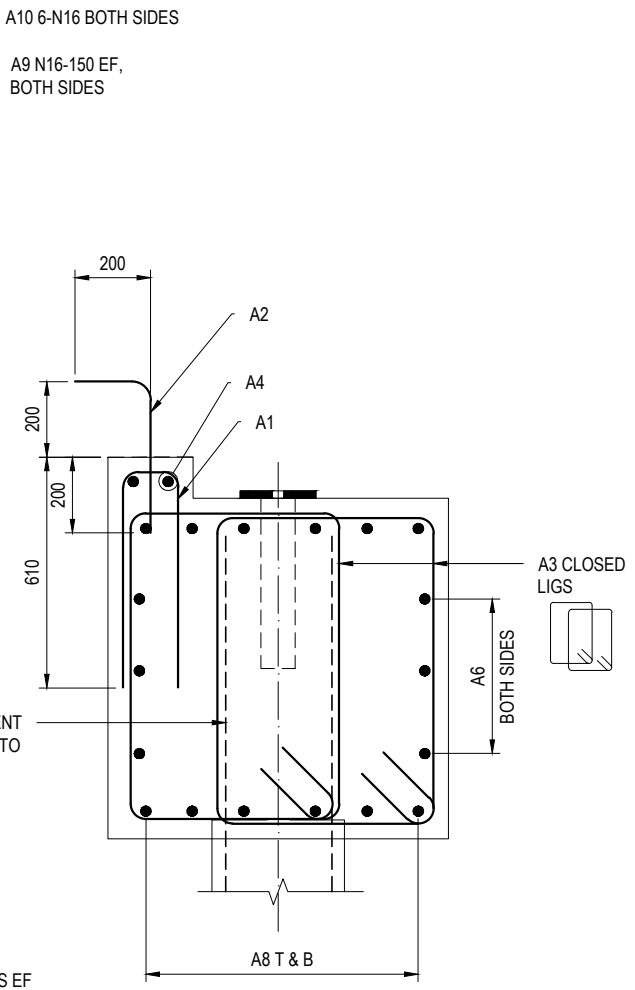
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 Plot Date: 4/8/2023 12:46:53 PM



ABUTMENT ELEVATION
SCALE 1:20



ABUTMENT PLAN
SCALE 1:20



SECTION 1
SCALE 1:20

NOTES
1. REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.

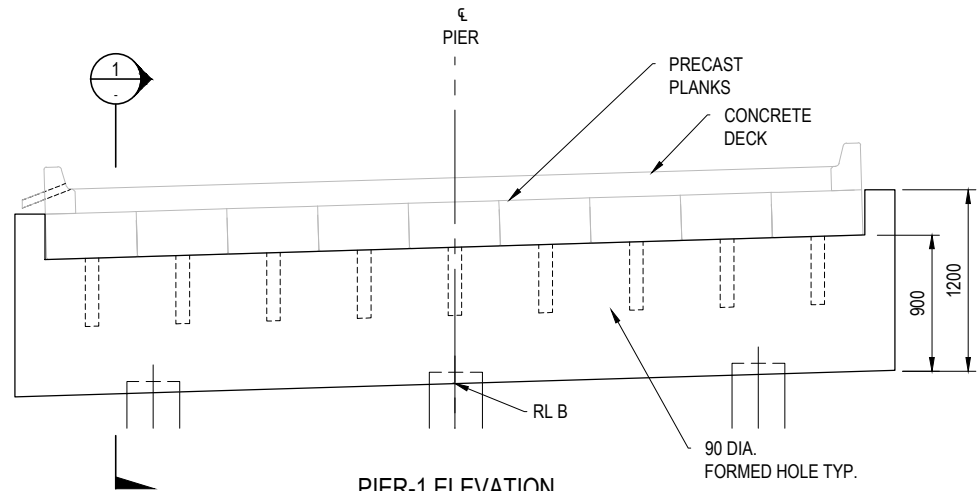
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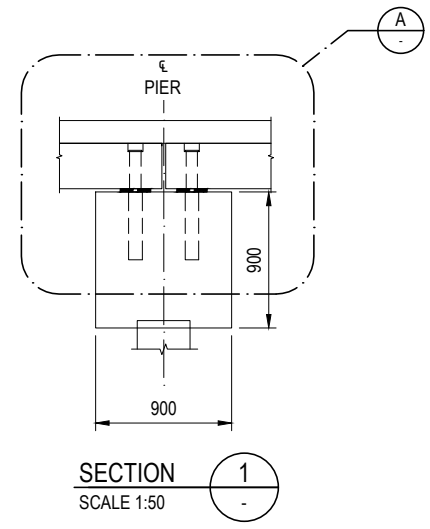


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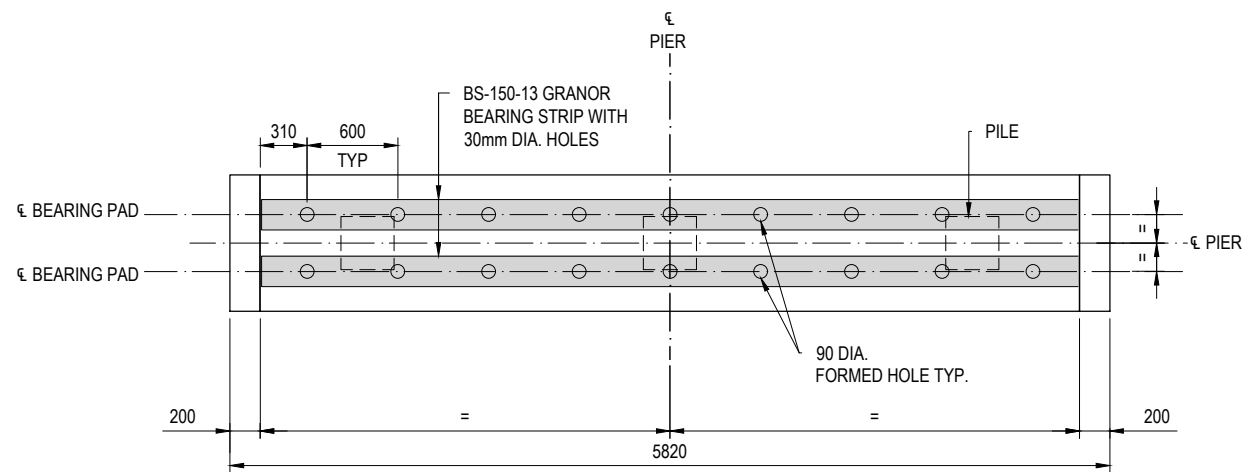
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B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023	SIGNED		A3	MOUNT ALEXANDER SHIRE COUNCIL	ABUTMENT REINFORCEMENT		
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Aug. 4, 23 - 12:46:53 Name: P.23.0690-00-STR-DRG-S308.dwg Updated By: Adrian Brunato												



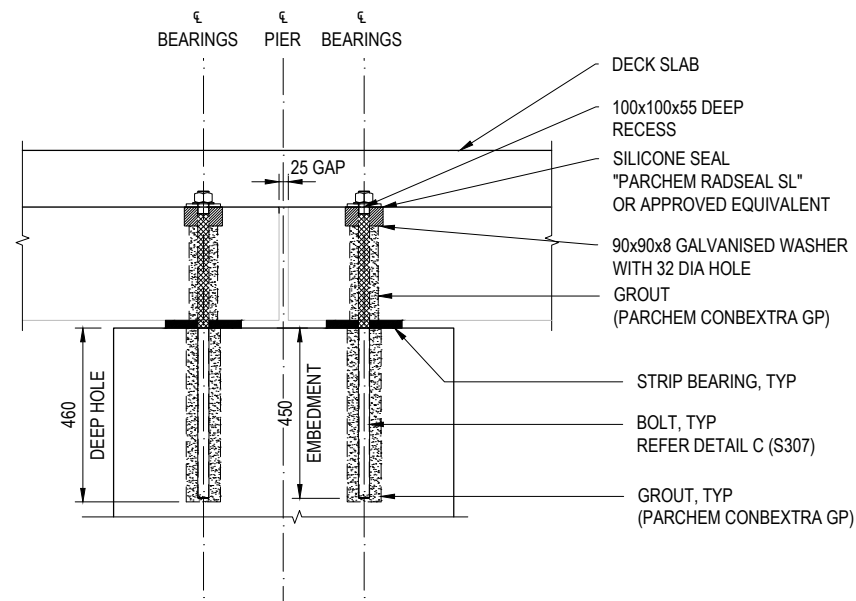
PIER-1 ELEVATION
SCALE 1:50
PIER-2 SIMILAR



SECTION 1
SCALE 1:50



PIER-1 PLAN
SCALE 1:50
PIER-2 SIMILAR



DETAIL A
SCALE 1:20

REDUCED LEVELS	
LOCATION	B
PIER 1	258.470
PIER 2	258.470

- NOTES**
- REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.
 - FOR SETOUT POINTS REFER TO DRAWING P.23.0690-00-STR-DRG-S305.

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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023
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CLIENT MOUNT ALEXANDER SHIRE COUNCIL

PROJECT VAUGHAN-TARILTA ROAD BRIDGE

STATUS **FOR TENDER**

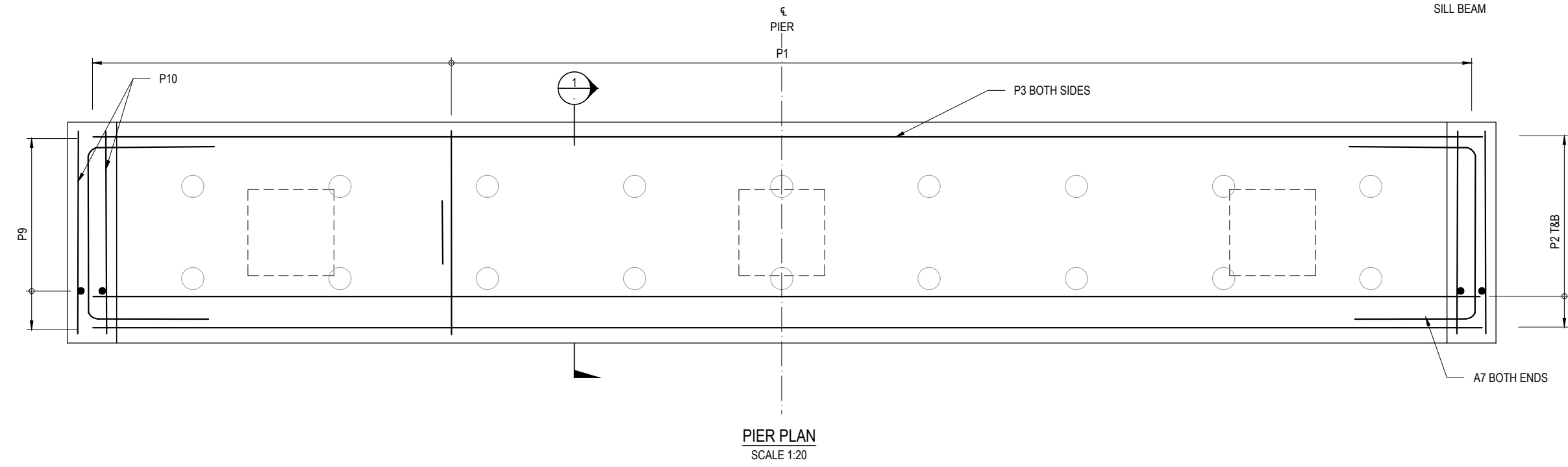
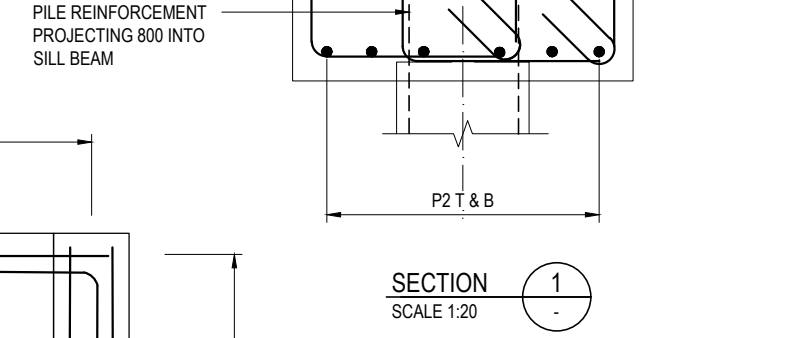
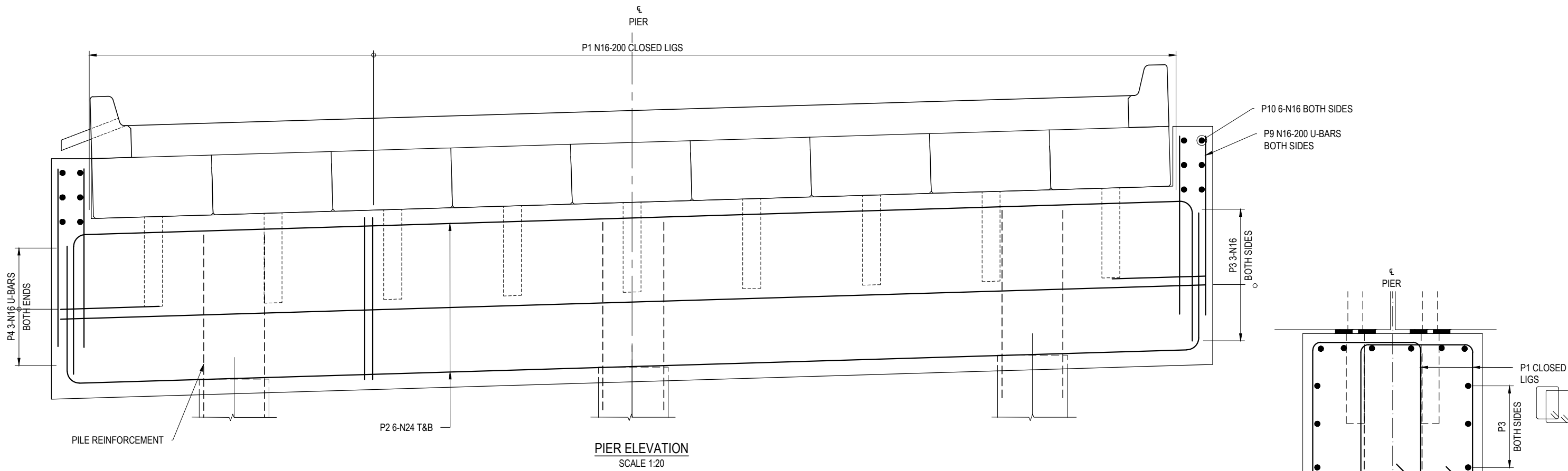
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DATUMS: AHD / MGA CLIENT No.

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File Name: C:\1205\SDA\TARILTA\02\PS\SVS001\IS-P.23.0690 - MOUNT ALEXANDER - VAUGHAN-TARILTA ROAD BRIDGE DESIGN UPGRADE - 1920DWGACAD\STRIP-23.0690-00-STR-DRG-S309.DWG Plot Date: 4/8/2023 12:46:55 PM



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NOTES
1. REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.

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No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
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PROJECT VAUGHAN-TARILTA ROAD BRIDGE
STATUS **FOR TENDER**

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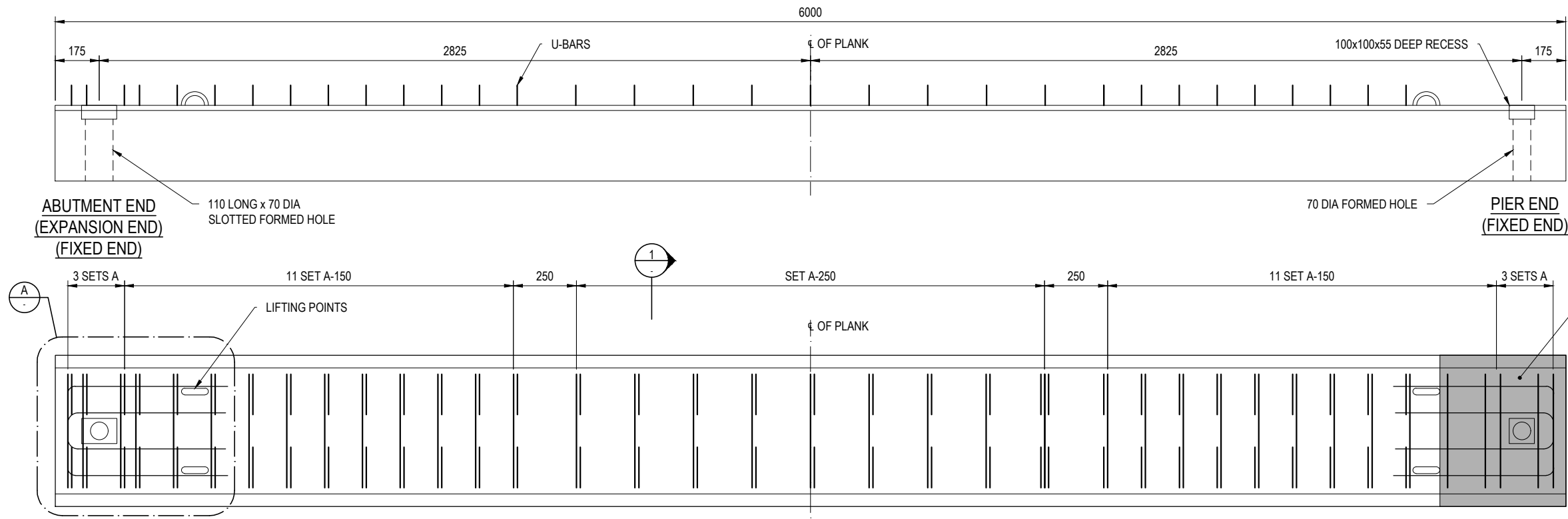
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Plot Date: 4/8/2023 12:46:57 PM

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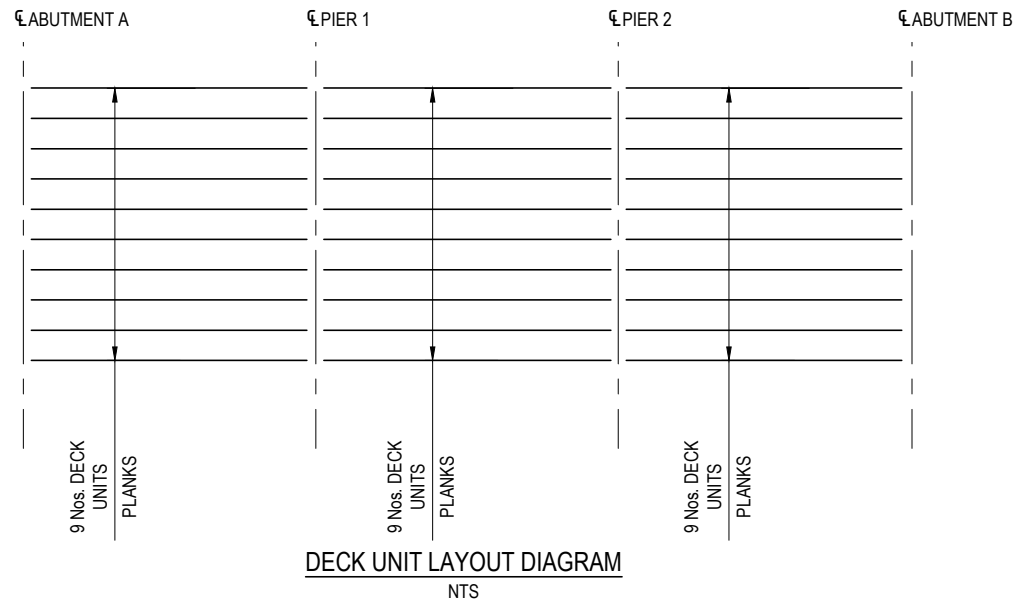
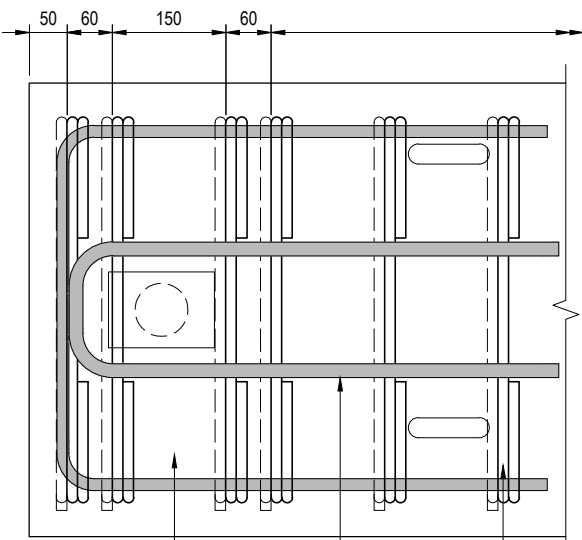


The Essential First Step.

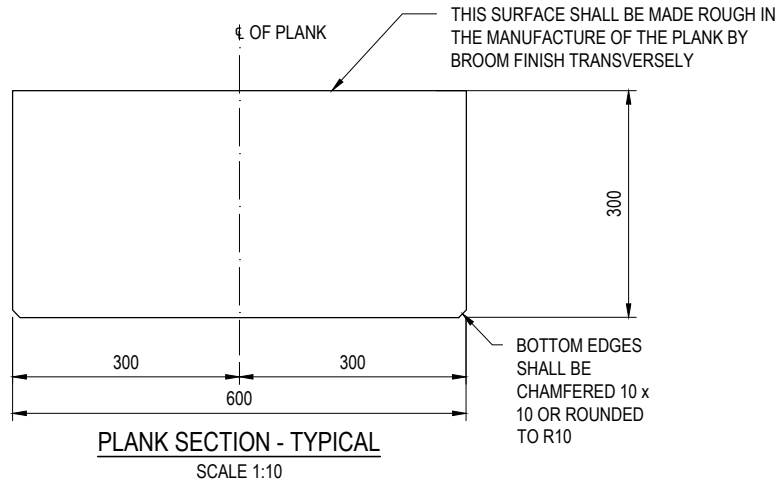


SMOOTH TROWEL FINISH TO TOP OF PLANK
NO DECK ANCHORAGE IN DEBOUNDED ZONE

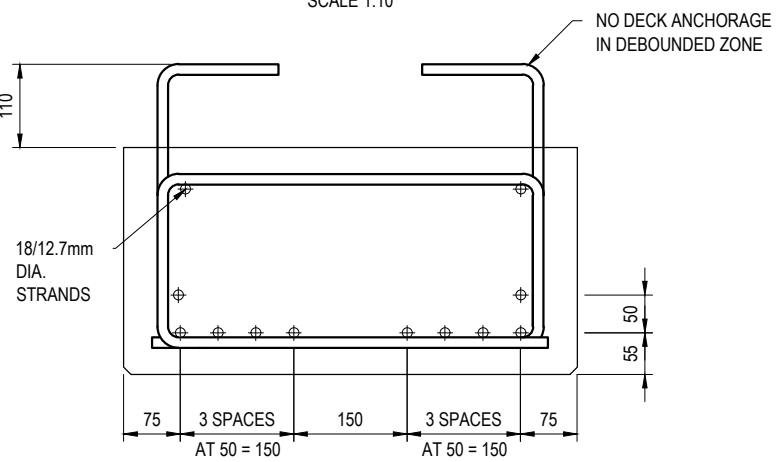
TYPE A - PLANK PLAN
SCALE 1:20



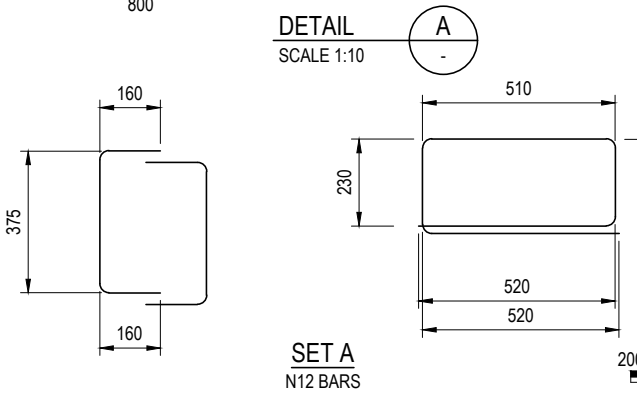
- NOTES:**
- REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.
 - MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50MPa.
 - MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TRANSFER OF PRESTRESS SHALL BE 35MPa.
 - NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 35mm UNO. THE COVER SPECIFIED IS BASED ON THE PLANK BEING CAST IN A RIGID STEEL FORMWORK MOULD WITH INTENSE COMPACTION USING A TABLE VIBRATOR OR FORM VIBRATORS.
 - STRANDS SHALL BE 7-WIRE, ORDINARY, DIAMETER 12.7mm, TENSILE STRENGTH 1870MPa, RELAX 2, TO AS/NZS 4672.1 WITH MINIMUM BREAKING FORCE OF 184kN. THE FORCE IN EACH 12.7mm DIA. STRAND AT THE MID-SPAN OF THE PLANK IMMEDIATELY AFTER THE RELEASE OF THE TENSIONING JACK SHALL BE 138kN.
 - AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE END OF PLANK AND EXPOSED STRANDS SEALED AGAINST CORROSION BY THE APPLICATION OF EXPOXY RESIN.
 - MASS OF PLANK IS APPROXIMATELY 12 TONNES.
 - DURING STORAGE, TRANSPORT AND HANDLING, PLANK SHALL BE IN AN UPRIGHT POSITION AND SUPPORTED AT NOT MORE THAN 600mm FROM EACH END.
 - LIFTING HOOKS TO BE DESIGNED BY PLANK MANUFACTURER.



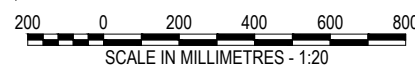
PLANK SECTION - TYPICAL
SCALE 1:10



SECTION 1
SCALE 1:10



SET A N12 BARS



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Plot Date: 4/8/2023 12:46:59 PM

DRAWING REVISION HISTORY		DRAWN	DESIGNED	REVIEWED	DATE	APPROVED
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A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018	
						DATE

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SCALE IN MILLIMETRES - 1:20

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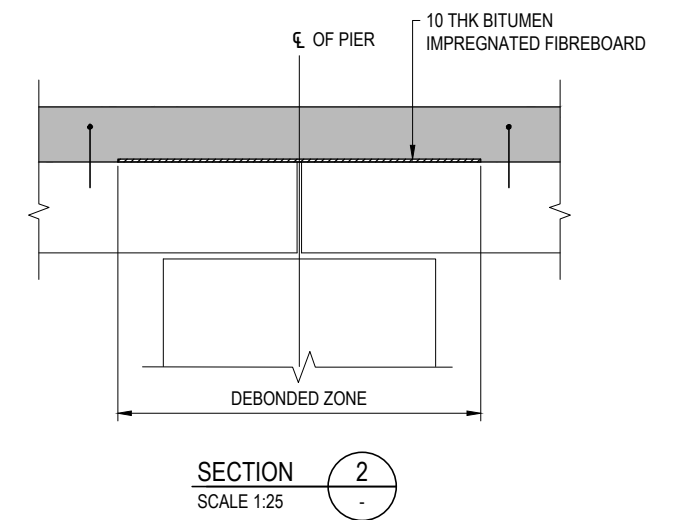
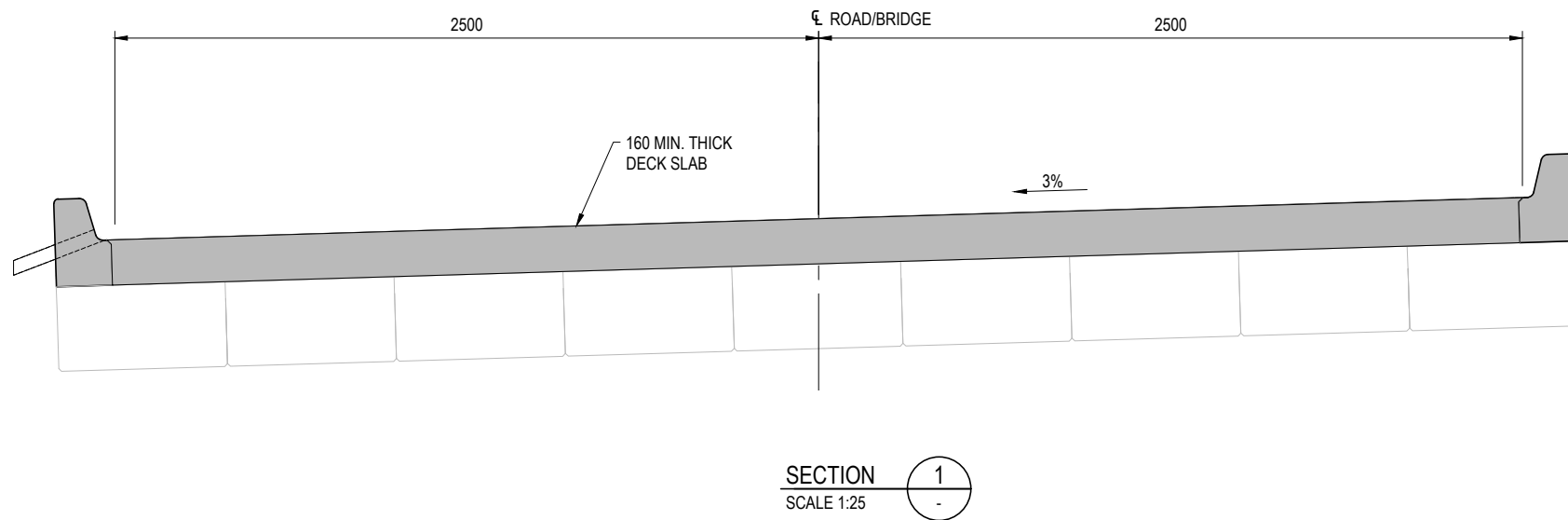
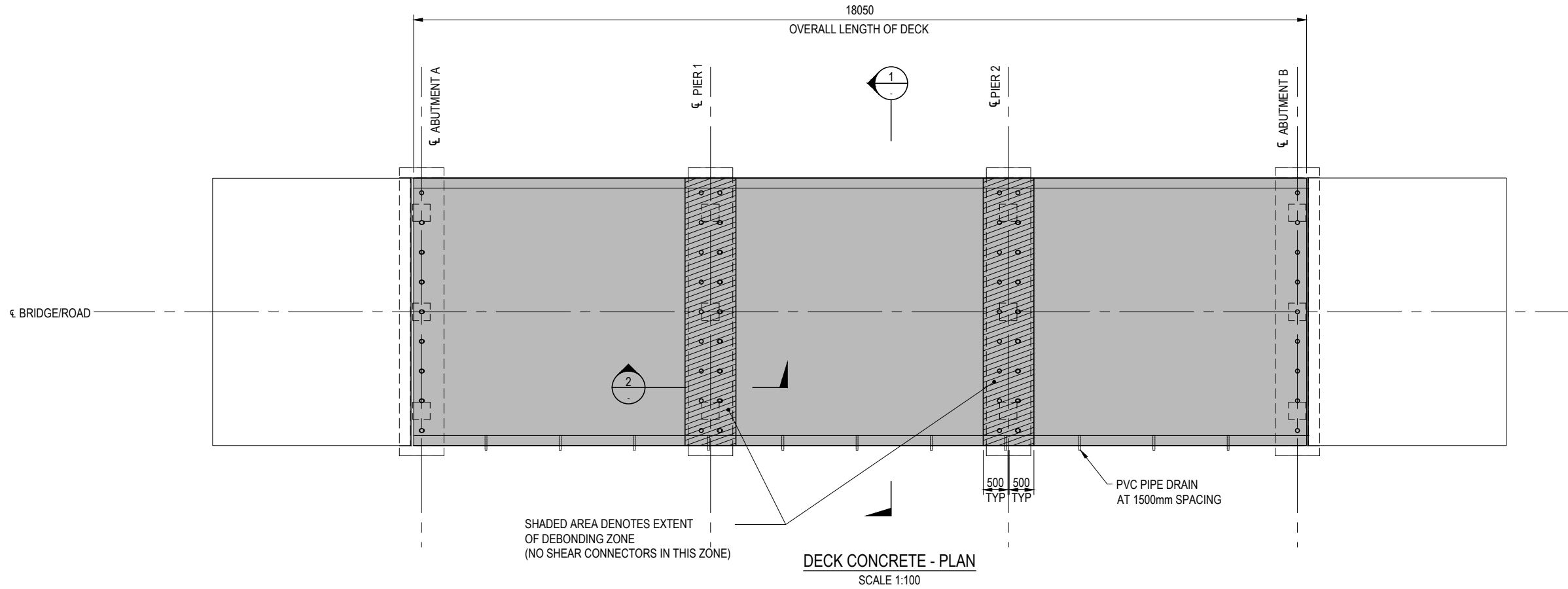
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CLIENT: MOUNT ALEXANDER SHIRE COUNCIL

PROJECT: VAUGHAN-TARILTA ROAD BRIDGE

STATUS: **FOR TENDER**

DRAWING TITLE: PLANK DETAILS	
DATUMS: AHD / MGA	CLIENT No.:
DRAWING No. S-P.23.0690-00-STR-DRG-S311	REVISION B
Aug. 4, 23 - 12:46:59 Name: P.23.0690-00-STR-DRG-S311.dwg Updated By: Adrian Brunato	



NOTES:
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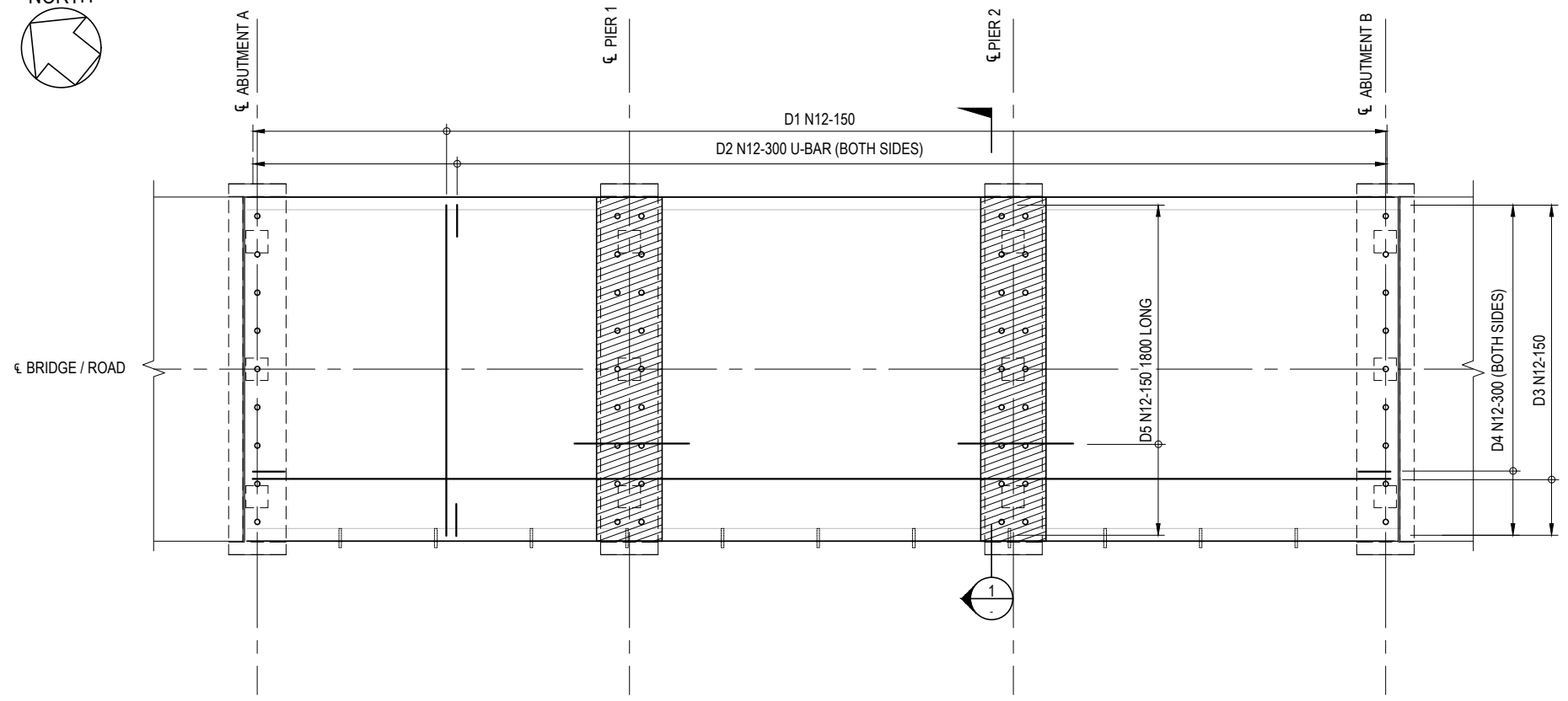
WARNING
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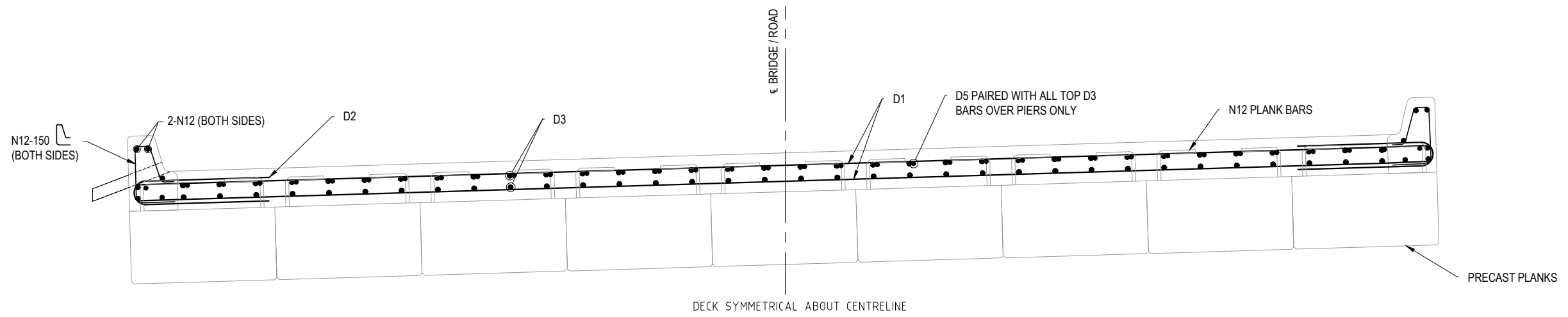
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A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018					
SIGNED					ORIGINAL COPY ON FILE "e" SIGNED BY		PROJECT	VAUGHAN-TARILTA ROAD BRIDGE	CLIENT No.	
DATE										STATUS
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Plot Date: 4/8/2023 12:47:01 PM



DECK REINFORCEMENT - PLAN
SCALE 1:100



SECTION 1
SCALE 1:20

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WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND/OVERHEAD SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN



NOTES
1. REFER DRAWING P.23.0690-00-STR-DRG-S302 FOR GENERAL NOTES.

FOR TENDER
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DRAWING REVISION HISTORY					
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
B	FOR TENDER	A.B.	M.A.	B.S.	04/08/2023
A	FOR APPROVAL	A.D.	M.A.	J.W.	31/05/2018

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ORIGINAL COPY ON FILE "e" SIGNED BY
SIGNED
DATE

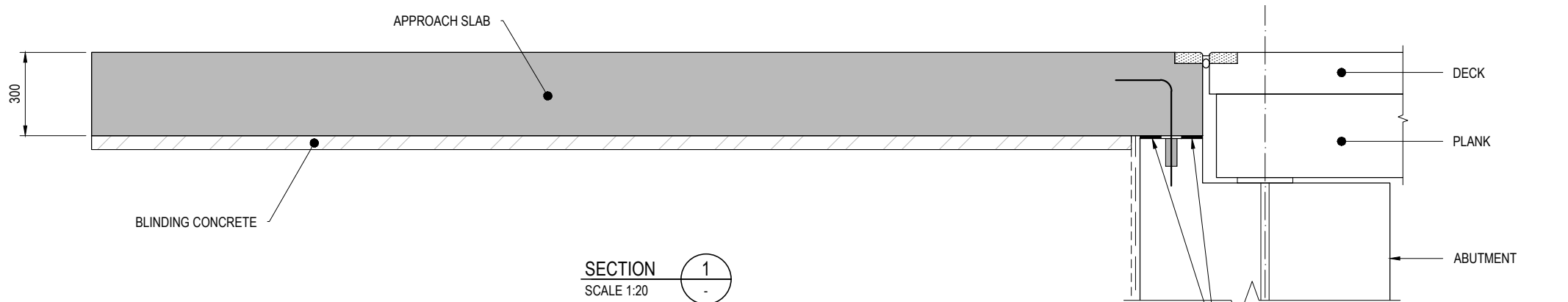
SCALE (PLOTTED FULL SIZE) AS SHOWN
SHEET SIZE A3
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CLIENT MOUNT ALEXANDER SHIRE COUNCIL
PROJECT VAUGHAN-TARILTA ROAD BRIDGE
STATUS **FOR TENDER**

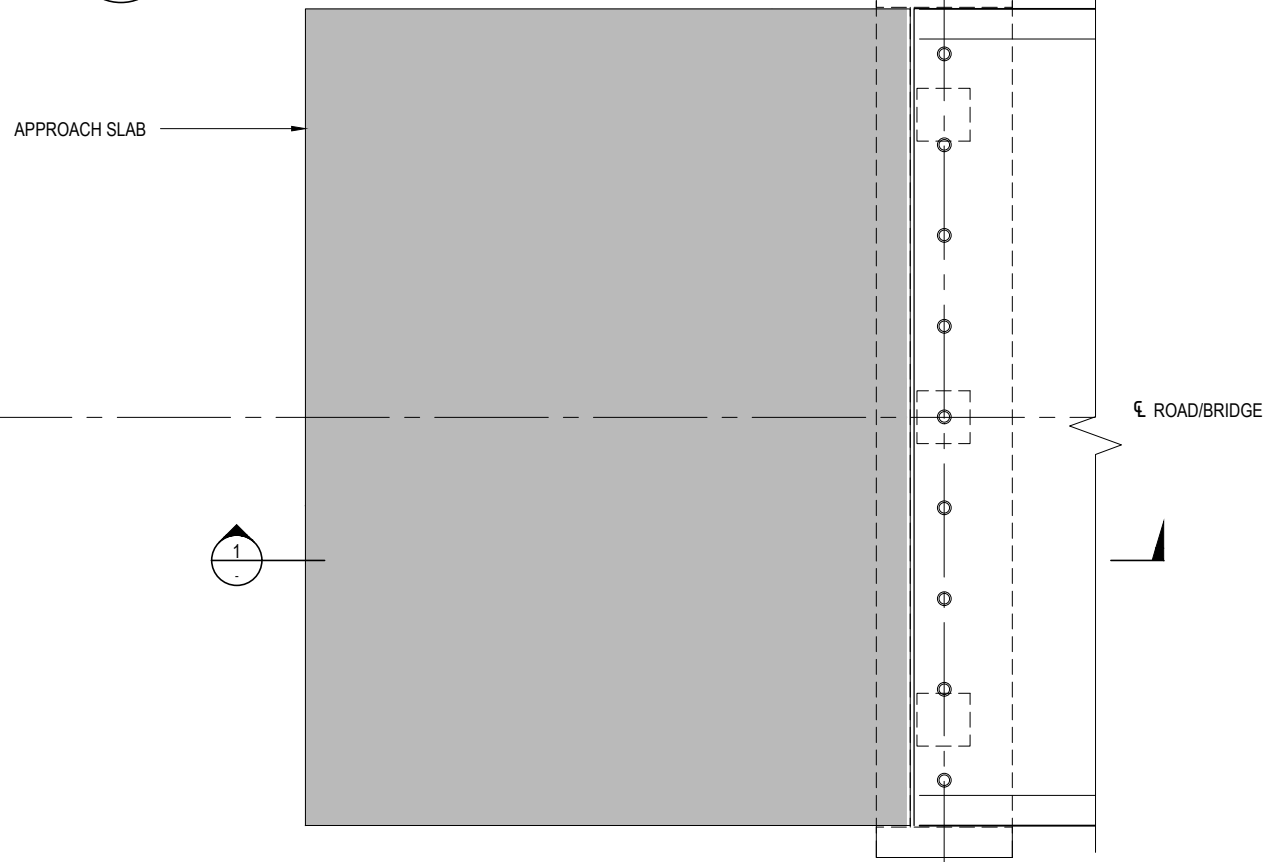
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DATUMS: AHD / MGA	CLIENT No. -
DRAWING No. S-P.23.0690-00-STR-DRG-S313	REVISION B
Aug. 4, 23 - 12:47:03 Name: P.23.0690-00-STR-DRG-S313.dwg Updated By: Adrian Brunato	

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Plot Date: 4/8/2023 12:47:03 PM



SECTION 1
SCALE 1:20

2 No. 75x10 BITUMEN IMPREGNATED FIBREBOARD STRIPS
FULL LENGTH OF FENDER WALL. BOND TO TOP OF FENDER
WALL WITH APPROVED ADHESIVE



APPROACH SLAB - PLAN
SCALE 1:50
APPROACH SLAB AT ABUTMENT-B SIMILAR

CAUTION

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The Essential First Step.



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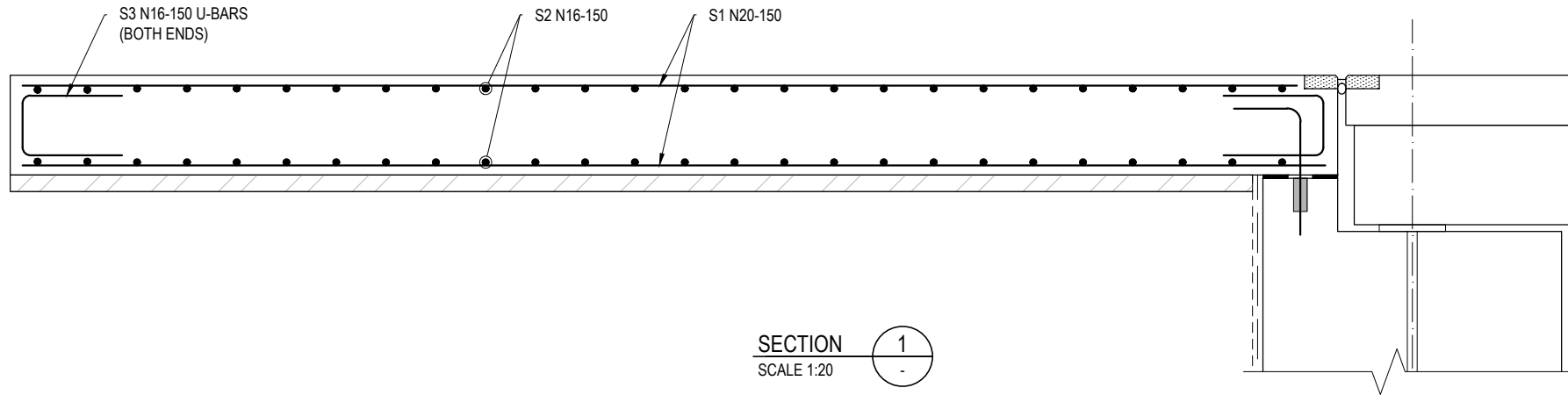
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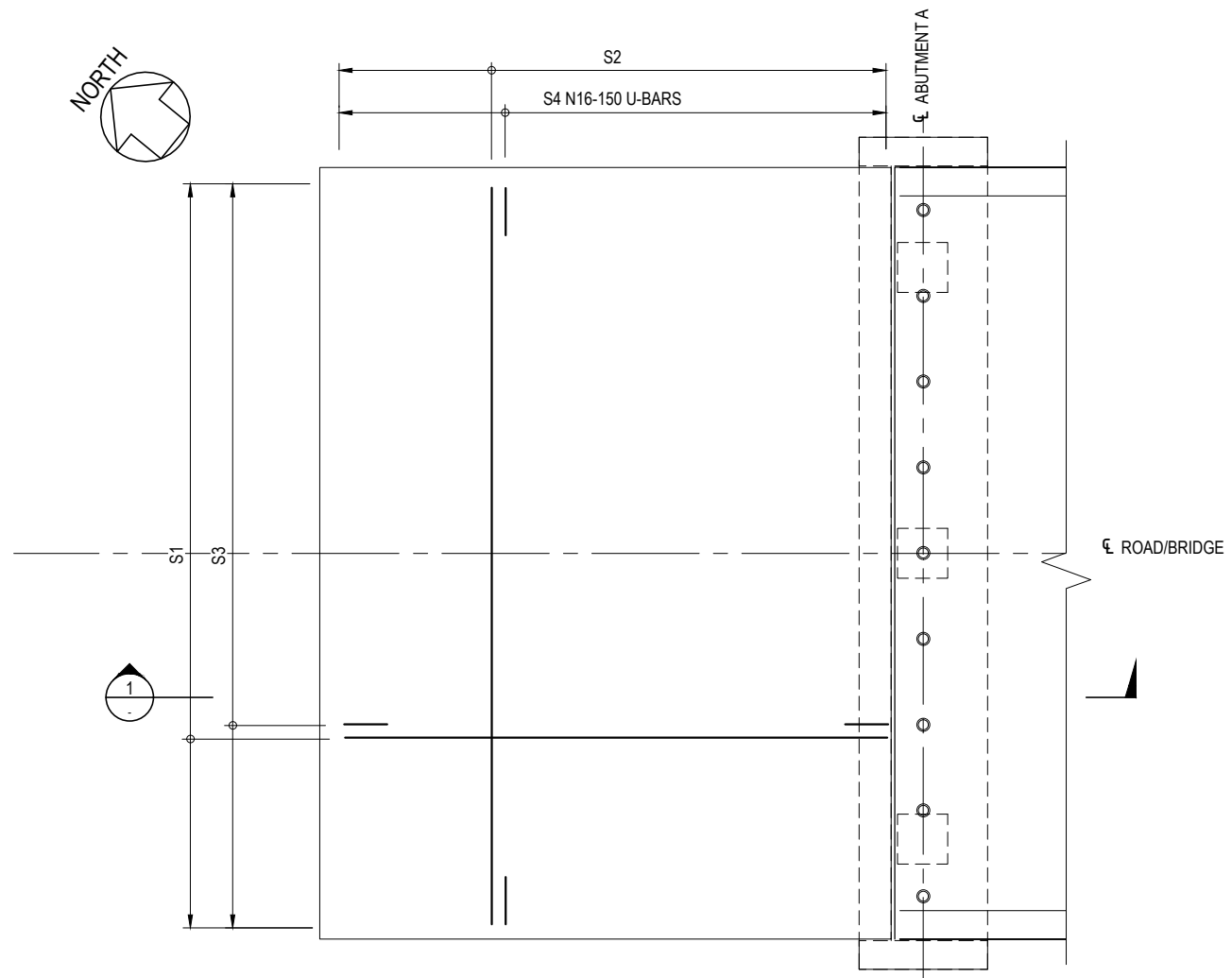
CLIENT	MOUNT ALEXANDER SHIRE COUNCIL
PROJECT	VAUGHAN-TARILTA ROAD BRIDGE
STATUS	FOR TENDER

DRAWING TITLE		APPROACH SLAB - CONCRETE	
DATUMS:	AHD / MGA	CLIENT No.	-
DRAWING No.	S-P.23.0690-00-STR-DRG-S314	REVISION	B
<small>Aug. 4, 23 - 12:47:05 Name: P.23.0690-00-STR-DRG-S314.dwg Updated By: Adrian Brunato</small>			

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Plot Date: 4/8/2023 12:47:05 PM



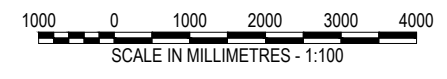
SECTION 1
SCALE 1:20



APPROACH SLAB REINFORCEMENT - PLAN
SCALE 1:50
APPROACH SLAB AT ABUTMENT-B SIMILAR

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PROJECT VAUGHAN-TARILTA ROAD BRIDGE
STATUS **FOR TENDER**

DRAWING TITLE APPROACH SLAB - REINFORCEMENT	
DATUMS: AHD / MGA	CLIENT No. -
DRAWING No. S-P.23.0690-00-STR-DRG-S315	REVISION B
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