



SQUAMISH

HARDWIRED *for* ADVENTURE

DISTRICT OF SQUAMISH MAMQUAM BLIND CHANNEL REDBRIDGE PEDESTRIAN BRIDGE Project Number:



KINGSWOOD
PROPERTIES



B A S I S

NOT FOR CONSTRUCTION

DRAFT

FILE PATH: P:\0052 -- KCD Mamquam Channel Ped Bridge\400 Drawings\04 -- Drawings\01 -- General Notes.dwg

GENERAL NOTES:

1. DESIGN SPECIFICATIONS:

CAN/CSA-S6-19.
2. LIVE LOADS:

• PEDESTRIAN/MUP LOAD

2.60 kPa.

• MAINTENANCE VEHICLE:

AXLE LOADS

24 kN

56 kN

2.0 m
3. SNOW LOAD

0.60 kPa.
4. WIND LOAD 1/50 YEAR REFERENCE

0.56 kPa.
5. DESIGN TEMPERATURE RANGE:

-20°C MIN/+45°C MAX.

PILE NOTES:

1. STEEL PIPE PILES SHALL CONFORM TO ASTM SPECIFICATION A252 GRADE 3.
2. PILES TO BE INSTALLED TO TIP ELEVATIONS SHOWN ON THE DRAWINGS OR TO SUCH ELEVATIONS AS MAY BE INSTRUCTED BY THE OWNER'S REPRESENTATIVE.
3. THE LENGTH OF PILE SUPPLIED SHALL BE SUFFICIENT TO ENSURE THERE IS NO DAMAGED MATERIAL BELOW THE CUT OFF. DAMAGED MATERIAL AT THE PILE HEAD SHALL BE CUT OFF.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59-M, LATEST EDITION.

CONCRETE NOTES:

1. ALL CONCRETE SHALL CONFORM TO CAN/CSA-A23.1 EXPOSURE CLASS F2 AND SHALL HAVE AIR ENTRAINMENT OF 6% ± 2% AND A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS. CONCRETE TO HAVE A SLUMP OF 80 ± 20 mm AT TIME OF PLACEMENT.
2. ALL EXPOSED EDGES OF CONCRETE TO BE CHAMFERED 20 mm.
3. CONCRETE SHALL BE CURED AND PROTECTED IN ACCORDANCE WITH CAN/CSA-A23.1.
4. REINFORCING STEEL SHALL CONFORM TO CAN/CSA-G30.18 GRADE 400R.
5. WELDING OF REINFORCING STEEL IS NOT PERMITTED.
6. CONCRETE COVER TO REINFORCING STEEL:

FACES EXPOSED TO EARTH = 70 mm

ALL OTHER FACES = 55 mm UNLESS NOTED OTHERWISE.
7. LAP SPLICES SHALL BE STAGGERED WITH MINIMUM LAP LENGTH AS FOLLOWS:

BAR SIZE	ALL BARS EXCEPT TOP BARS	ACTUAL PILE TIP EL.
10M	340	480
15M	480	680
20M	590	820
25M	900	1260
* HORIZONTAL REINFORCMENT WITH MORE THAN 300 mm OF CONCRETE CAST BELOW BARS		

ANCHOR BOLT NOTES:

1. ANCHOR BOLTS SHALL CONFORM TO ASTM SPECIFICATION A307.
2. ANCHOR BOLT ASSEMBLIES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE TO ASTM A123 M.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL AND PLATE SHALL COMPLY TO CSA G40.21M, GRADE 350W, HSS SHALL COMPLY TO G7021M GRADE 350W CLASS C.
2. ALL WELDING SHALL BE IN ACCORDANCE WITH W59, LATEST EDITION. ALL WELDING SHALL BE VISUALLY INSPECTED.
3. SHEAR CONNECTORS SHALL CONFORM TO ASTM 108, GRADE 1020.
4. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE MINISTRY OF TRANSPORTATION AND HIGHWAYS 2020 STANDARD SPECIFICATIONS SECTION 421.
5. ALL STEEL WORK IS SHOP PRIMED AND PAINTED IN ACCORDANCE WITH THE MINISTRY OF TRANSPORTATION AND HIGHWAYS 2020 STANDARD SPECIFICATIONS.
6. FINISH COAT PAINT COLOUR TO BE SHERWIN WILLIAMS COLLECTION "SW 2839 ROYCROFT COPPER RED".
7. ALL BOLTS SHALL BE 7/8"ø, ASTM A325 TYPE 3 c/w NUTS AND WASHERS WITH THREADS EXCLUDED FROM SHEAR PLANE, UNLESS NOTED OTHERWISE.
8. ALL SPLICE CONNECTIONS SHALL BE SHOP ASSEMBLED.
9. BEAM SPLICE FAYING SURFACE TO BE BLASTED CLEAN AND COATED WITH PRIMER TO MEET THE REQUIREMENTS FOR CLASS "B" SURFACE.

TIMBER NOTES:

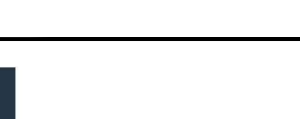
1. ALL TIMBER DECKING, STRINGERS AND FLOOR BEAMS SHALL BE ROUGH SAWN CEDAR GRADE NO. 2 OR BETTER IN ACCORDANCE WITH CSA 0141. ALTERNATIVELY ROUGH SAWN DOUGLAS FIR-LARCH GRADE NO. 2 OR BETTER, TREATED MAY BE USED IN PLACE OF CEDAR.
2. LAG BOLTS CONNECTING DECK TO CROSS BEAMS SHALL BE HOT DIP GALVANIZED C/W WASHER AND HEX NUT.

DRAWING LIST

00	COVER PAGE
01	GENERAL NOTES
02	REDBRIDGE -- SITE PLAN
03	REDBRIDGE -- GENERAL ARRANGEMENT
04	REDBRIDGE -- SITE GRADING
05	REDBRIDGE -- NORTH ABUTMENT DETAILS
06	REDBRIDGE -- NORTH ABUTMENT REINFORCING
07	REDBRIDGE -- SOUTH ABUTMENT DETAILS
08	REDBRIDGE -- SOUTH ABUTMENT REINFORCING
09	REDBRIDGE -- STEEL TRUSS DETAILS -- SHEET 1
10	REDBRIDGE -- STEEL TRUSS DETAILS -- SHEET 2
11	REDBRIDGE -- DECK DETAILS
12	REDBRIDGE -- RAILING DETAILS

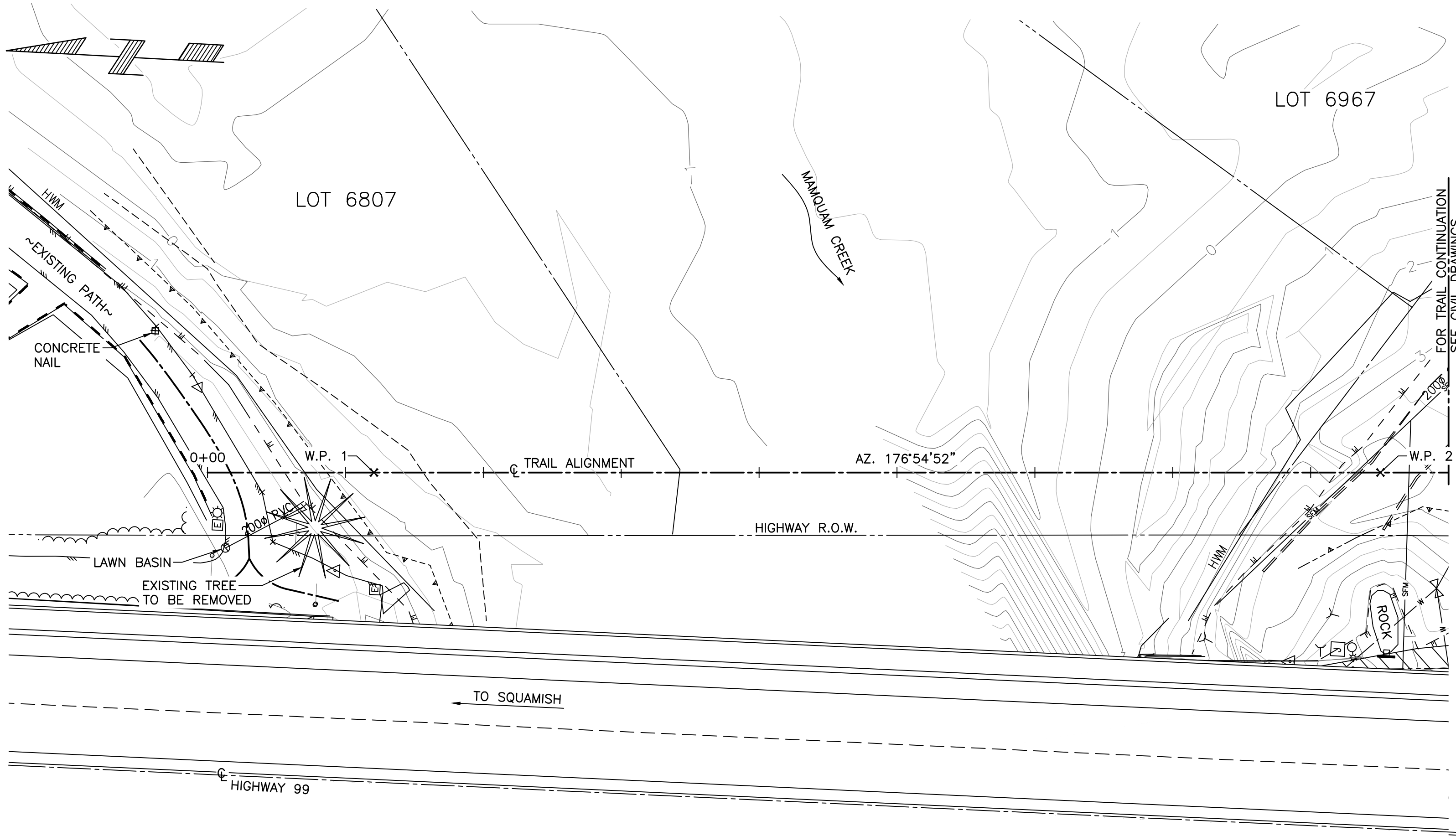
NOT FOR CONSTRUCTION

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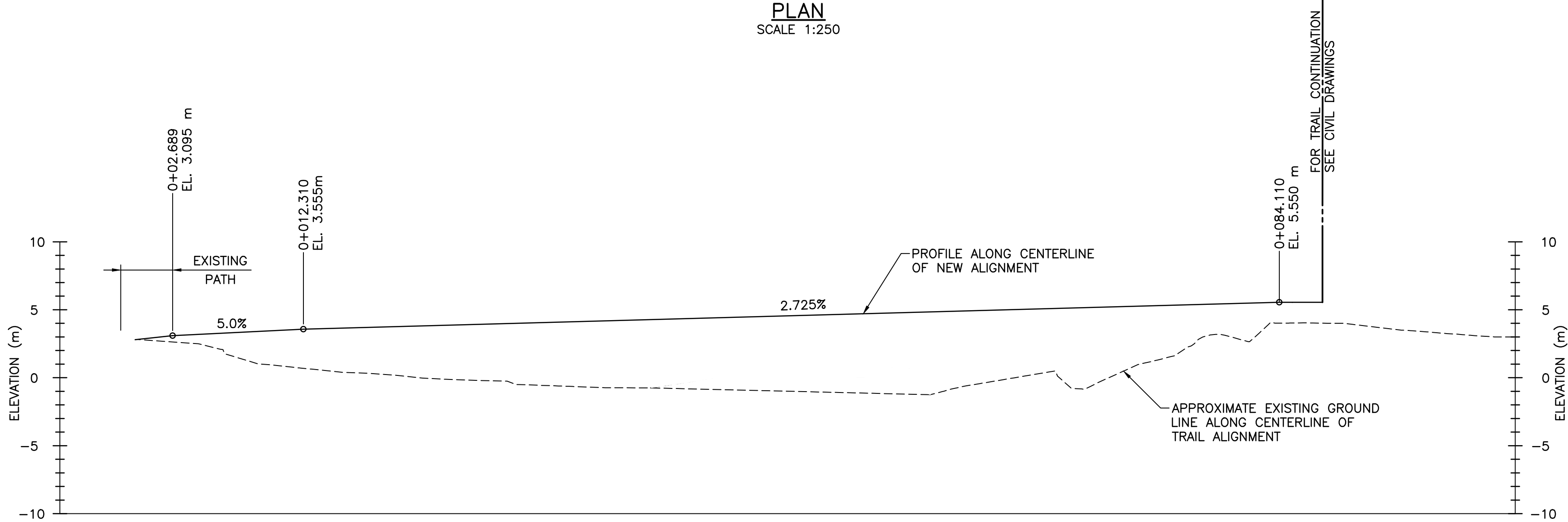
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										DRAWN:	M.BRIDDEN		 		MAMQUAM PEDESTRIAN BRIDGE							
										DESIGNED:	J.DEKKER				TITLE							
										CHECKED:	T.WANG				GENERAL NOTES							
			2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	B.HAMERSLEY				SCALE AS NOTED							
			1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.										PROJECT NO. 0052			
			0	ISSUED FOR PERMITTING	2023/11/30	M.B.	J.D.	T.W.	B.H.										DWG. NO. 01			
REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED			REV. 2													

DWG-01-1

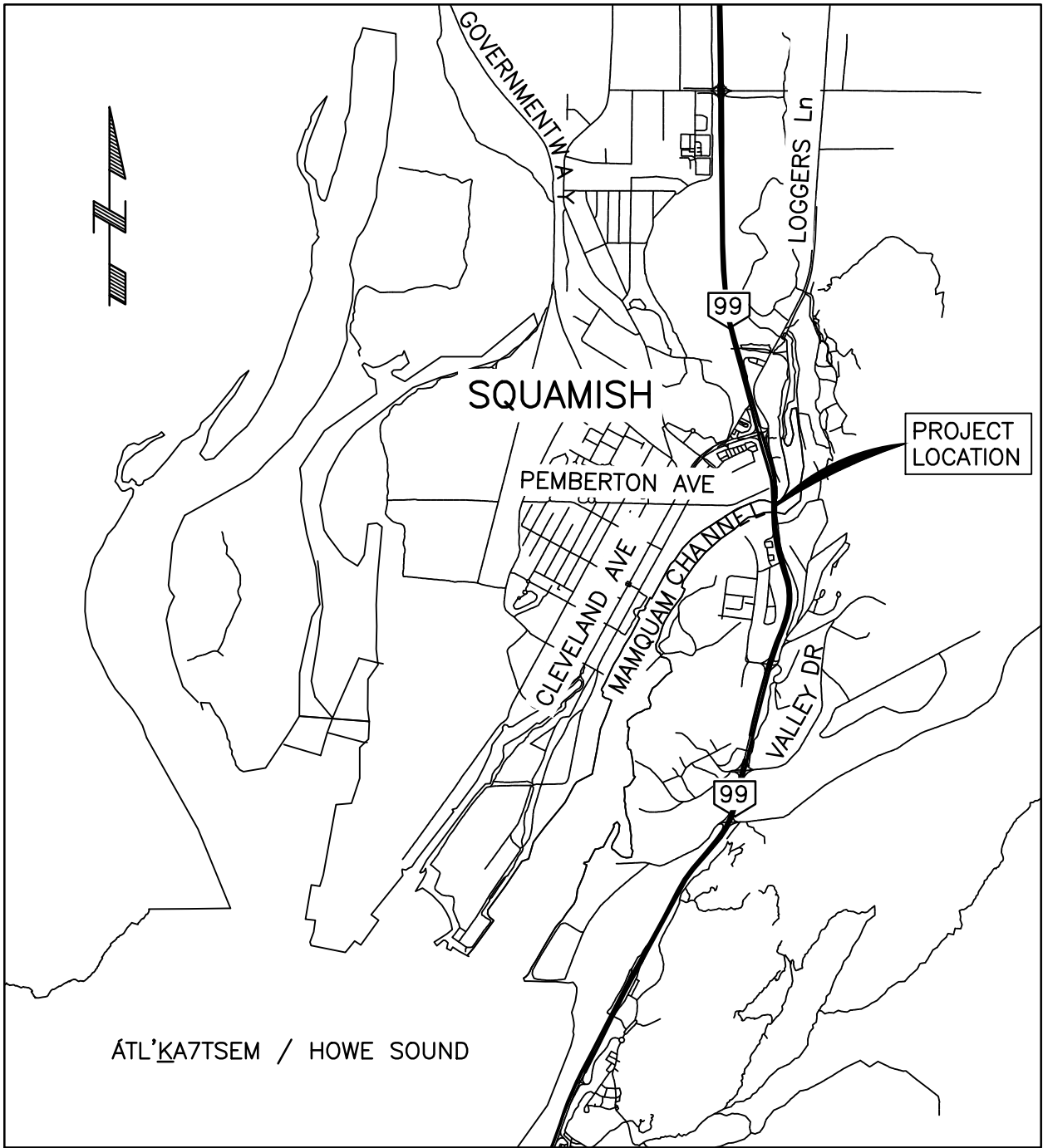
FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\02 - Site Plan.dwg



PLAN
SCALE 1:250



PROFILE ALONG CENTERLINE OF TRAIL ALIGNMENT
SCALE 1:250



LOCATION PLAN
N.T.S.

WORK POINT TABLE			
WORK POINT	NORTHING	EASTING	ELEVATION
W.P. 1	5607728.369	689797.574	3.560
W.P. 2	5607655.475	689801.503	5.000

LEGEND:

	TOP OF BANK
	BOTTOM OF BANK
	STORM CULVERT
	EXISTING STREET LIGHT
	JUNCTION BOX
	EXISTING SANITARY FORCEMAIN
	300Ø WATER MAIN
	HUB - TRAVERSE
	SIGN
	OVERHEAD UTILITIES
	MISCELLANEOUS UNDERGROUND UTILITIES

NOTES:

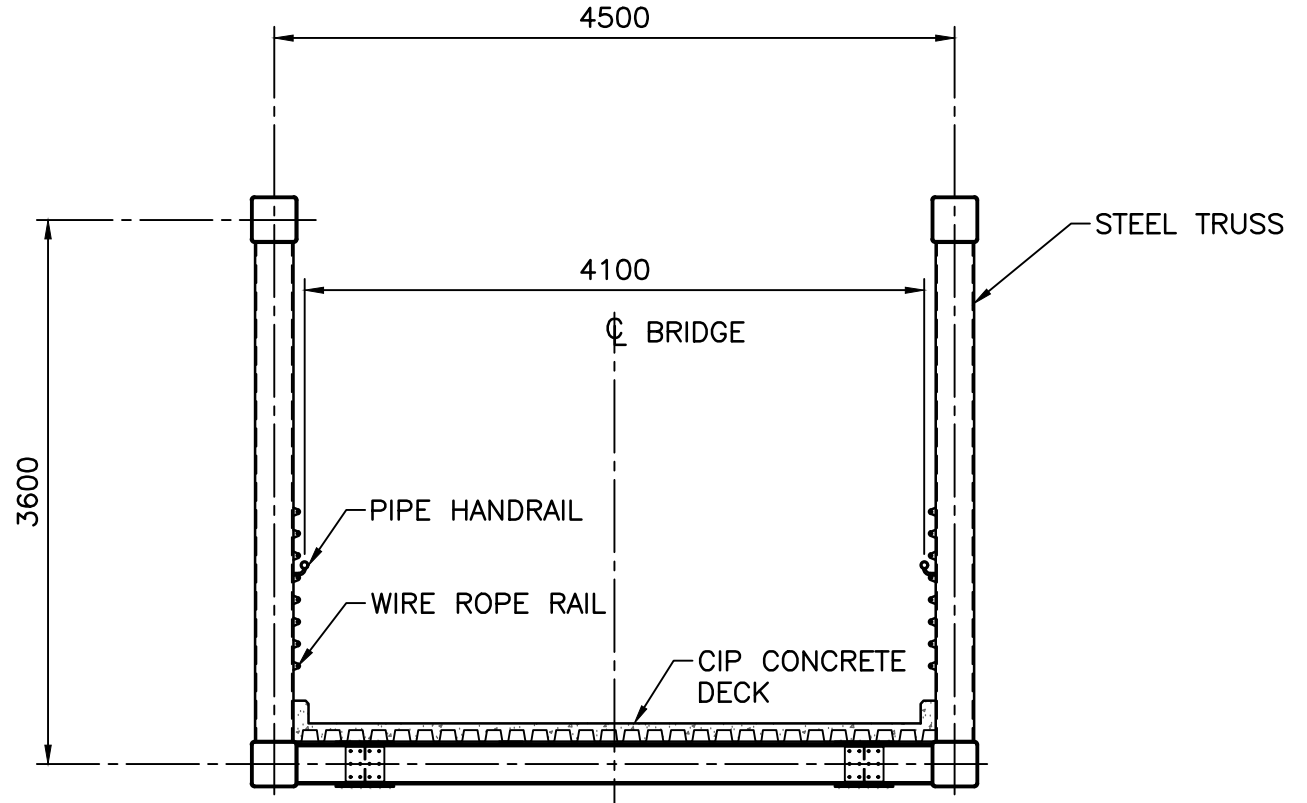
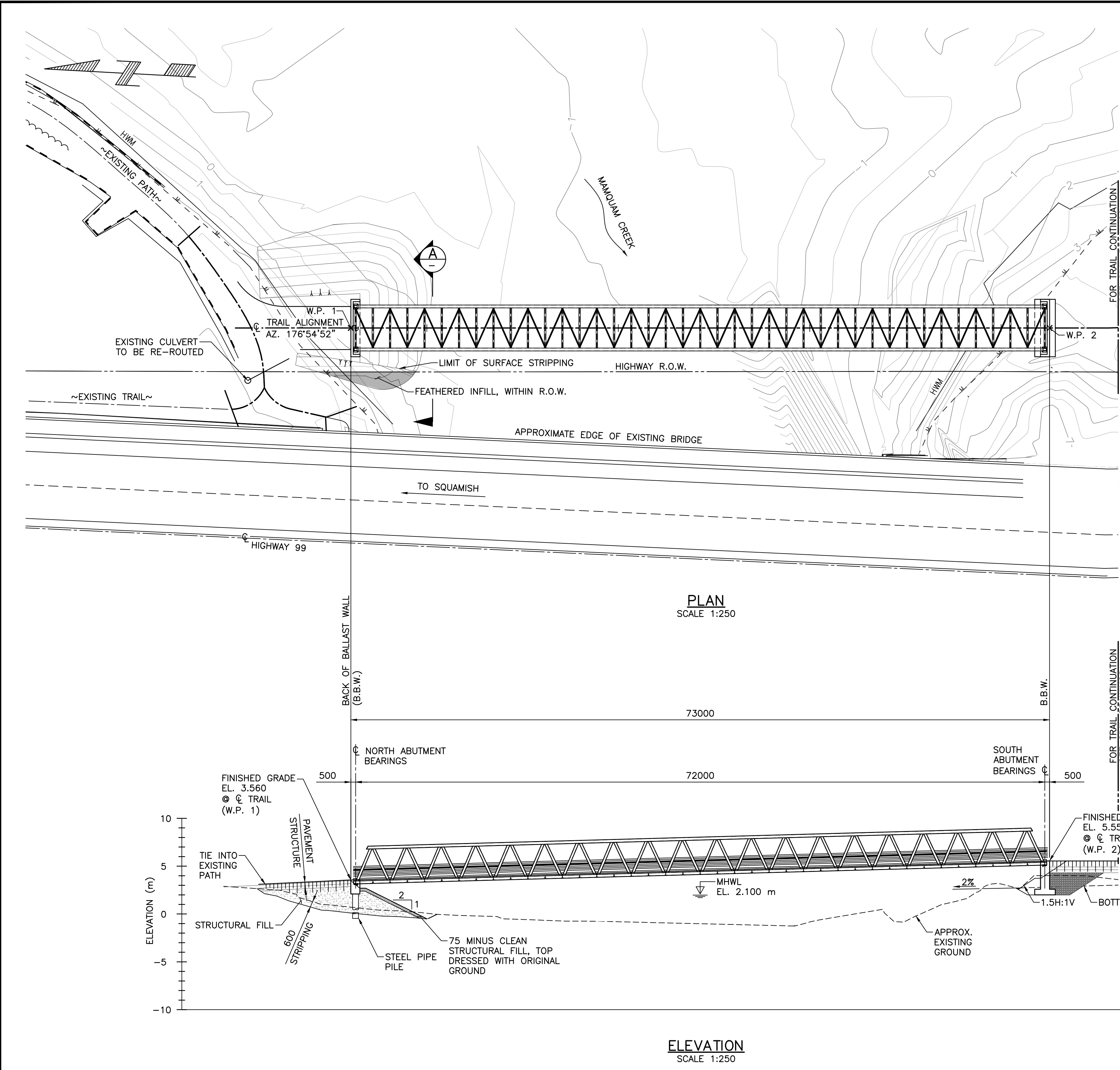
- FOR GENERAL NOTES SEE DRAWING 01.
- SURVEY BY: R.F. BINNIE & ASSOCIATES.
- DATUM: GEODETIC
- BENCHMARKS:
- FOR BOREHOLE DATA SEE DRAWINGS

NOT FOR CONSTRUCTION

DRAFT

DRAWING REVISIONS				ORIGINAL ISSUE				CLIENT	PROJECT			
									MAMQUAM PEDESTRIAN BRIDGE			
									TITLE			
									REDBRIDGE SITE PLAN			
									SCALE AS NOTED			
2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	KINGSWOOD PROPERTIES SQUAMISH BASIS	PROJECT NO. 0052			
1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.			DWG. NO. 02			
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REVISION	DESCRIPTION OF REVISION	DATE (YYYY-MM-DD)	DRAWN	DESIGNED	CHECKED	APPROVED			CANCEL PRINTS BEARING PREVIOUS REVISION			

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\03 - General Arrangement.dwg



SECTION A
SCALE 1:50

NOTES:

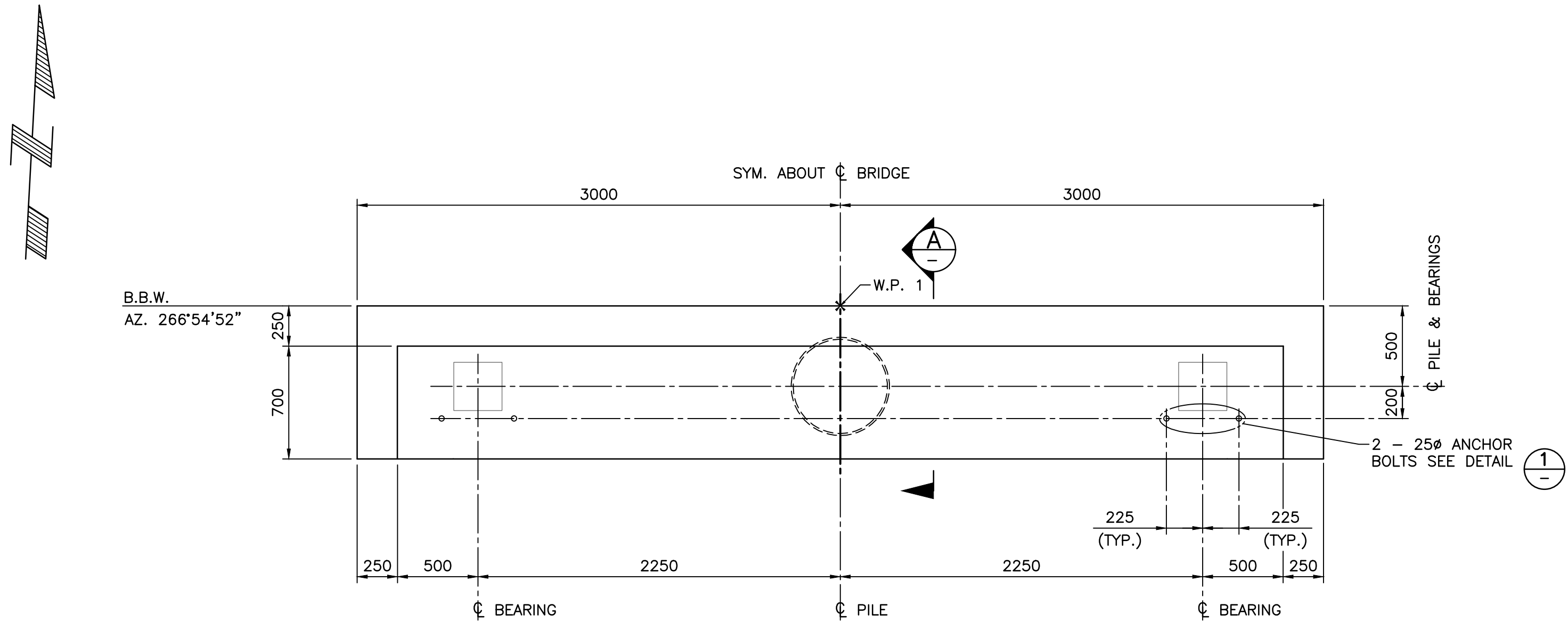
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NOT FOR CONSTRUCTION

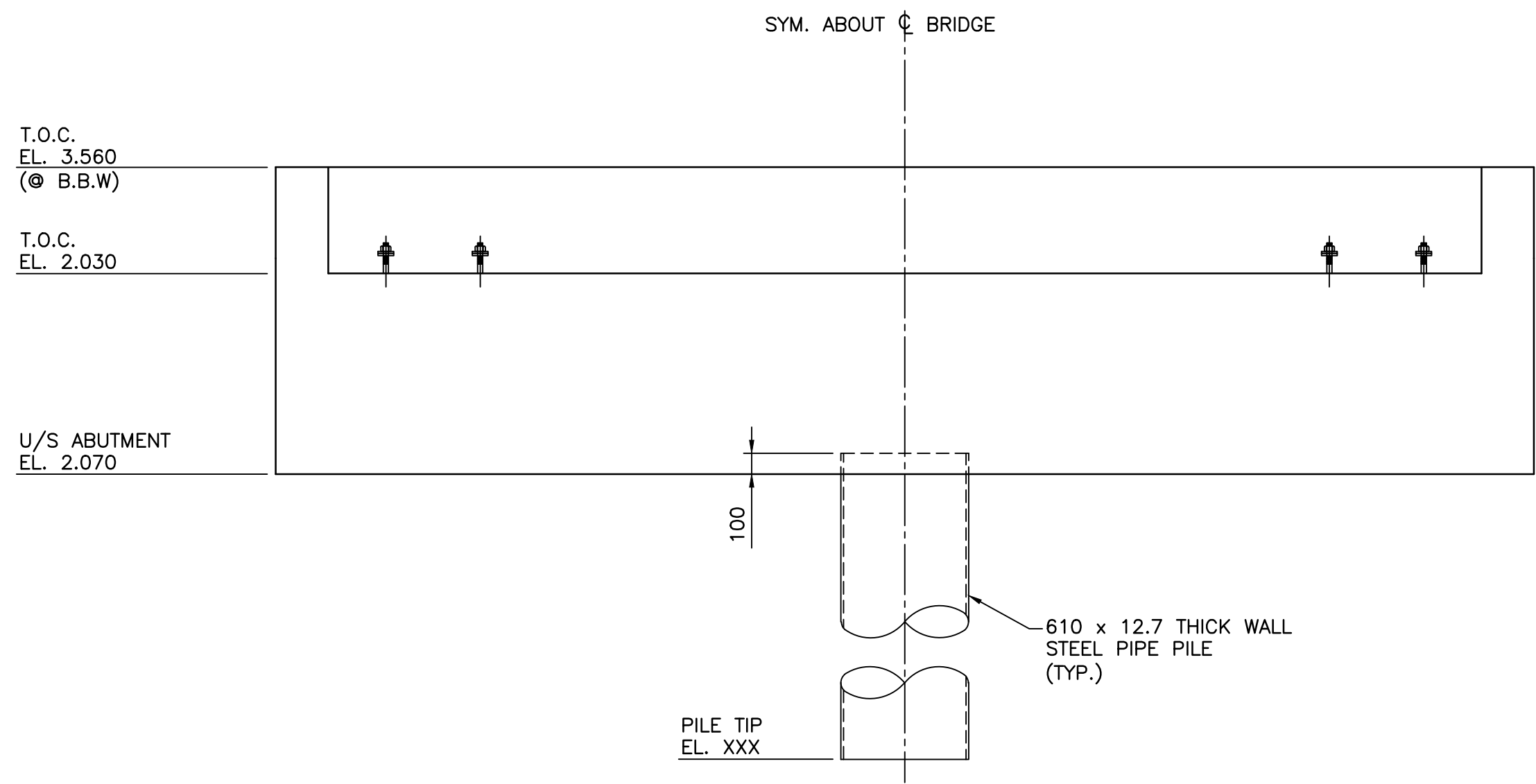
DRAFT

DRAWING REVISIONS				ORIGINAL ISSUE				CLIENT	PROJECT			
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									REDBRIDGE GENERAL ARRANGEMENT			
									SCALE AS NOTED			
									PROJECT NO. 0052			
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1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.			REV. 1			
0	ISSUED FOR PERMITTING	2023/11/30	J.B.	J.D.	T.W.	B.H.			CANCEL PRINTS BEARING PREVIOUS REVISION			
REVISION	DESCRIPTION OF REVISION	DATE (YYYY-MM-DD)	DRAWN	DESIGNED	CHECKED	APPROVED						

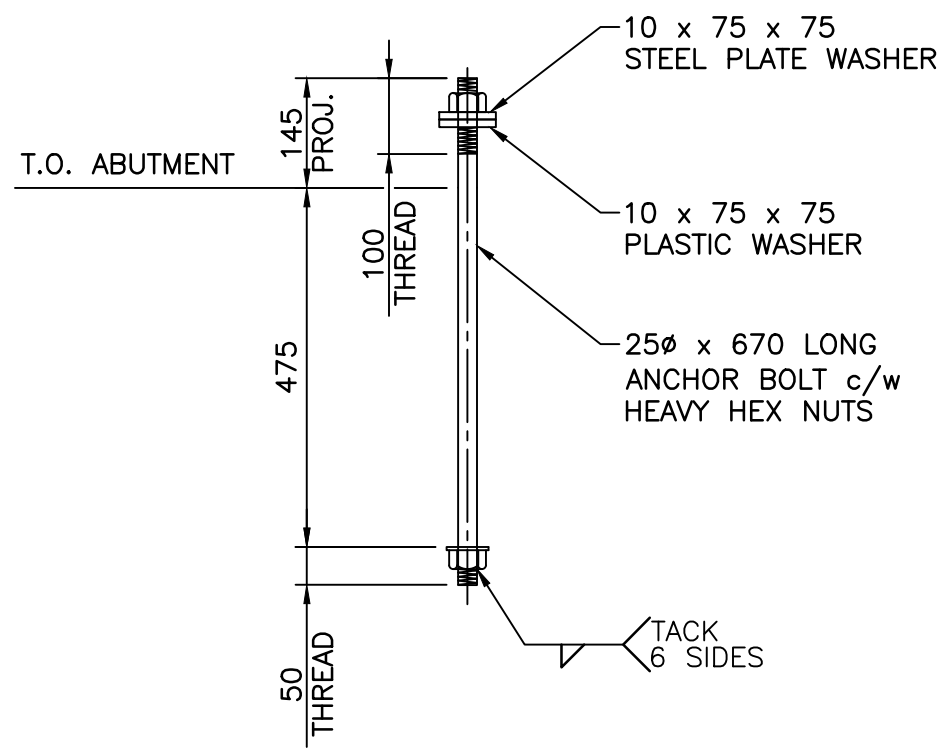
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PLAN
SCALE 1:25

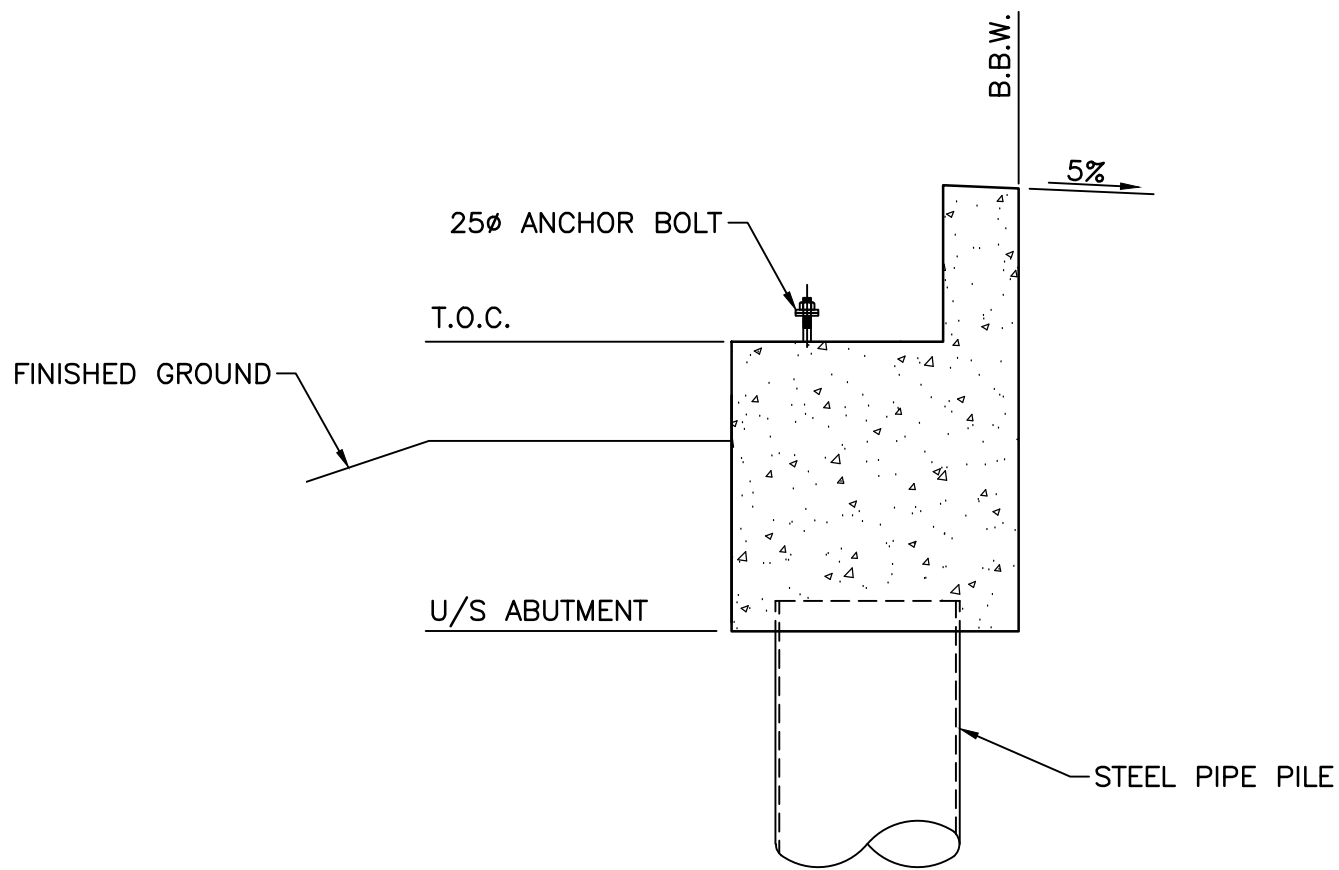


ELEVATION
SCALE 1:25



TYPICAL ANCHOR BOLT

DETAIL 1 - 1
SCALE 1:10 07



SECTION A
SCALE 1:25

NOTES:

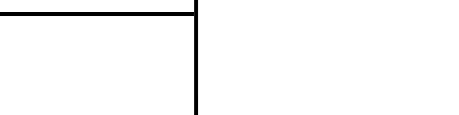
1. FOR GENERAL NOTES SEE DRAWING 01.

PILE LOADS FACTORED (ULS)	PILE LOADS UNFACTORED (SLS)
DEAD LOAD: kN	DEAD LOAD: kN
LIVE LOAD: kN	LIVE LOAD: kN
TOTAL: kN	TOTAL: kN

PILE ELEVATION TABLE		
PILE LOCATION	DESIGN PILE TIP EL.	ACTUAL PILE TIP EL.
NORTH ABUTMENT		

NOT FOR CONSTRUCTION

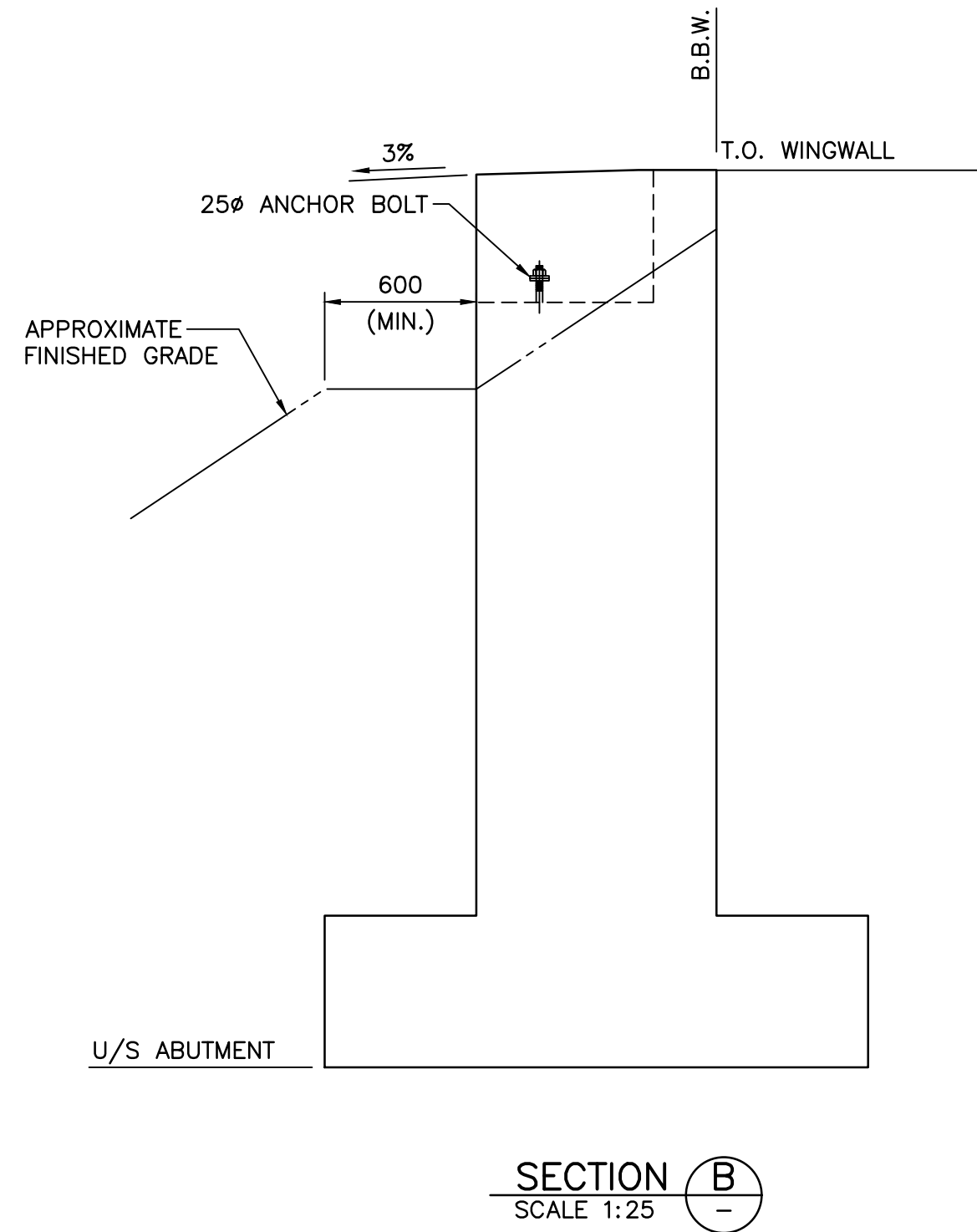
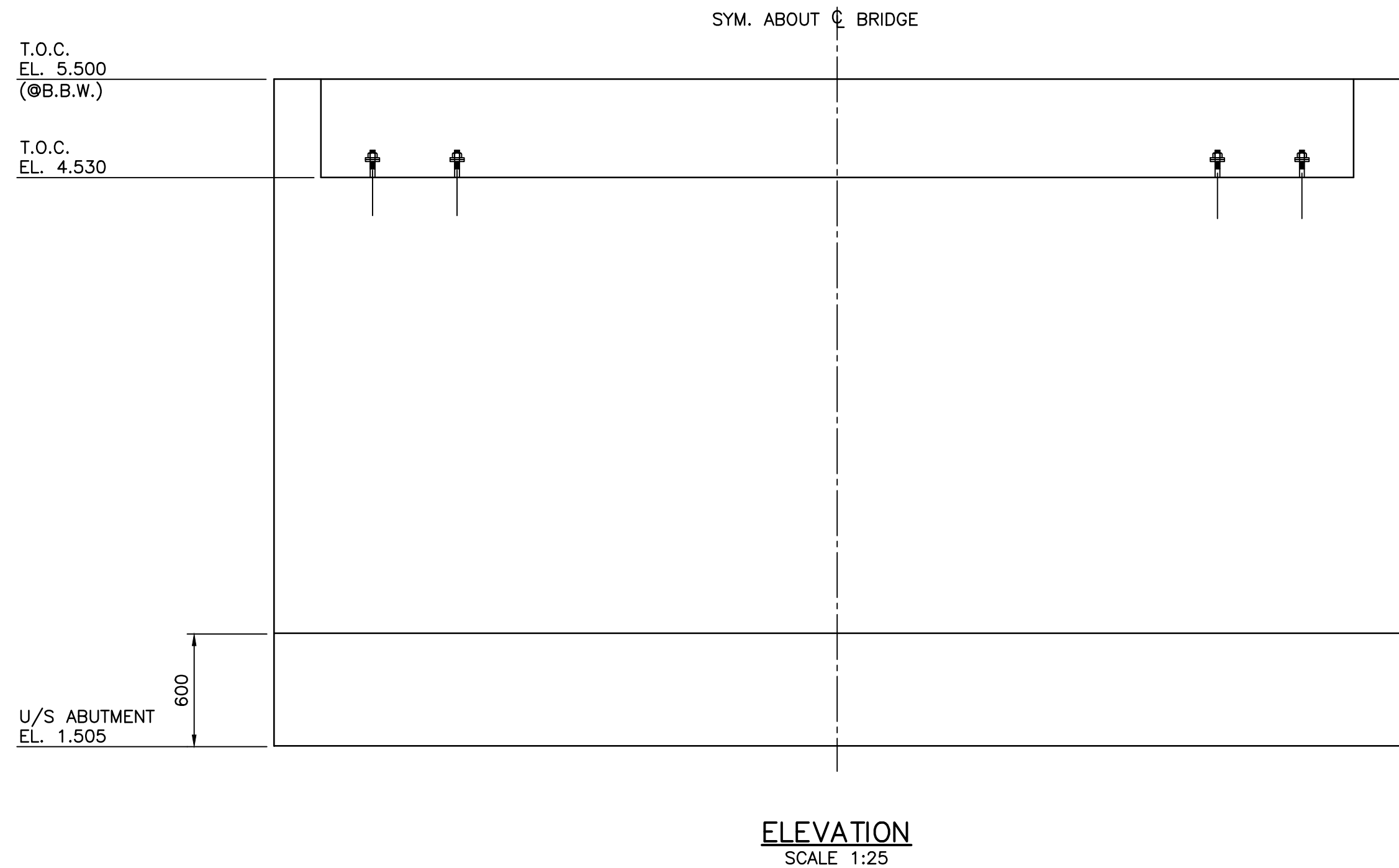
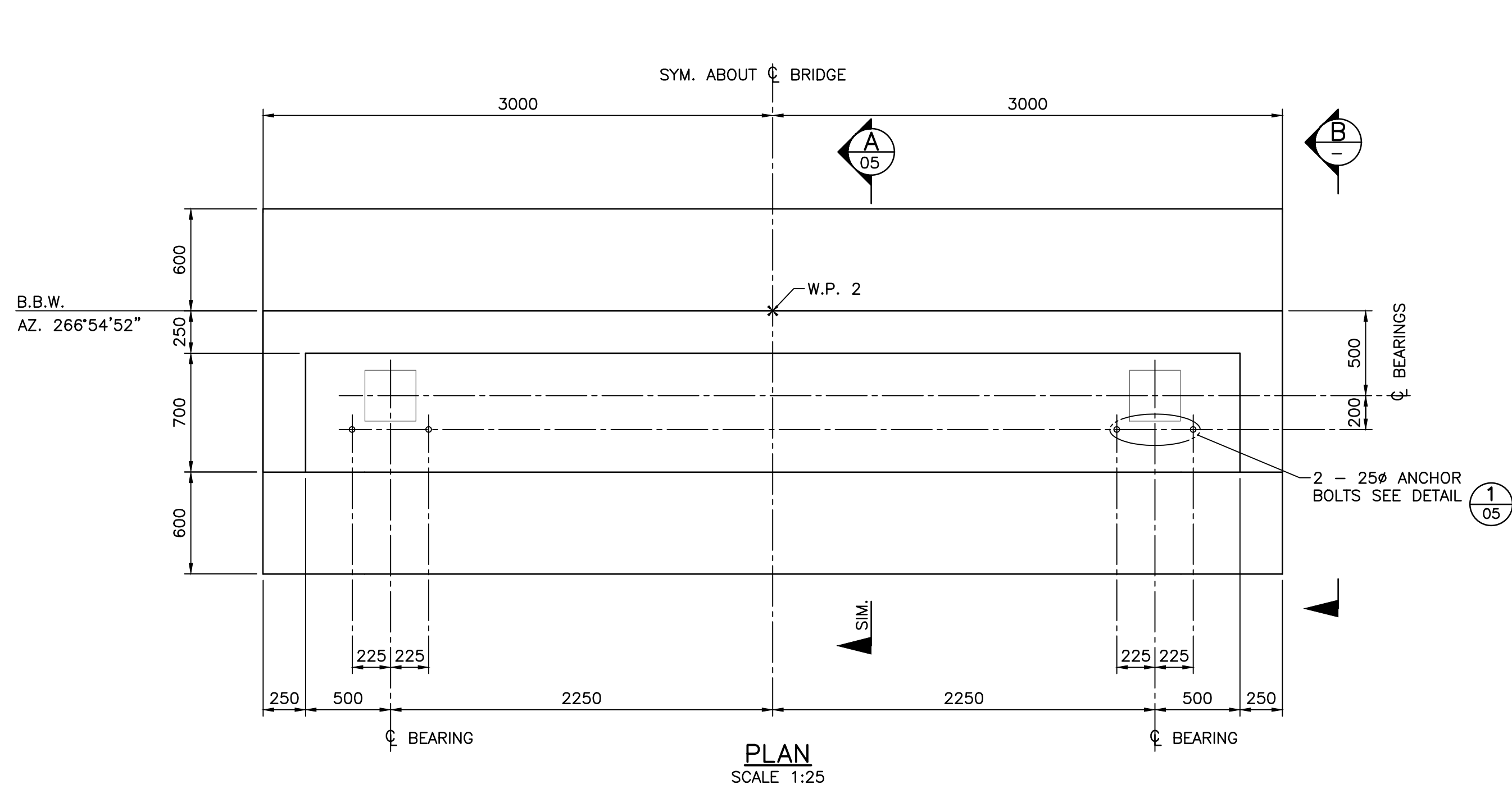
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										DRAWN:	J.BEAUREGARD				MAMQUAM CHANNEL PEDESTRIAN BRIDGE			
										DESIGNED:	J.DEKKER				TITLE			
										CHECKED:	T.WANG				REDBRIDGE			
			2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	B.HAMERSLEY		NORTH ABUTMENT					
			1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.				DETAILS					
			0	ISSUED FOR PERMITTING	2023/11/30	J.B.	J.D.	T.W.	B.H.					SCALE				
REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED			AS NOTED	PROJECT NO.	0052	DWG. NO.		05	REV.	2		

CANCEL PRINTS BEARING PREVIOUS REVISION

DWG-0-L

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\05 to 08 - Abutment.dwg



NOTES:

1. FOR GENERAL NOTES SEE DRAWING 01.

NOT FOR CONSTRUCTION

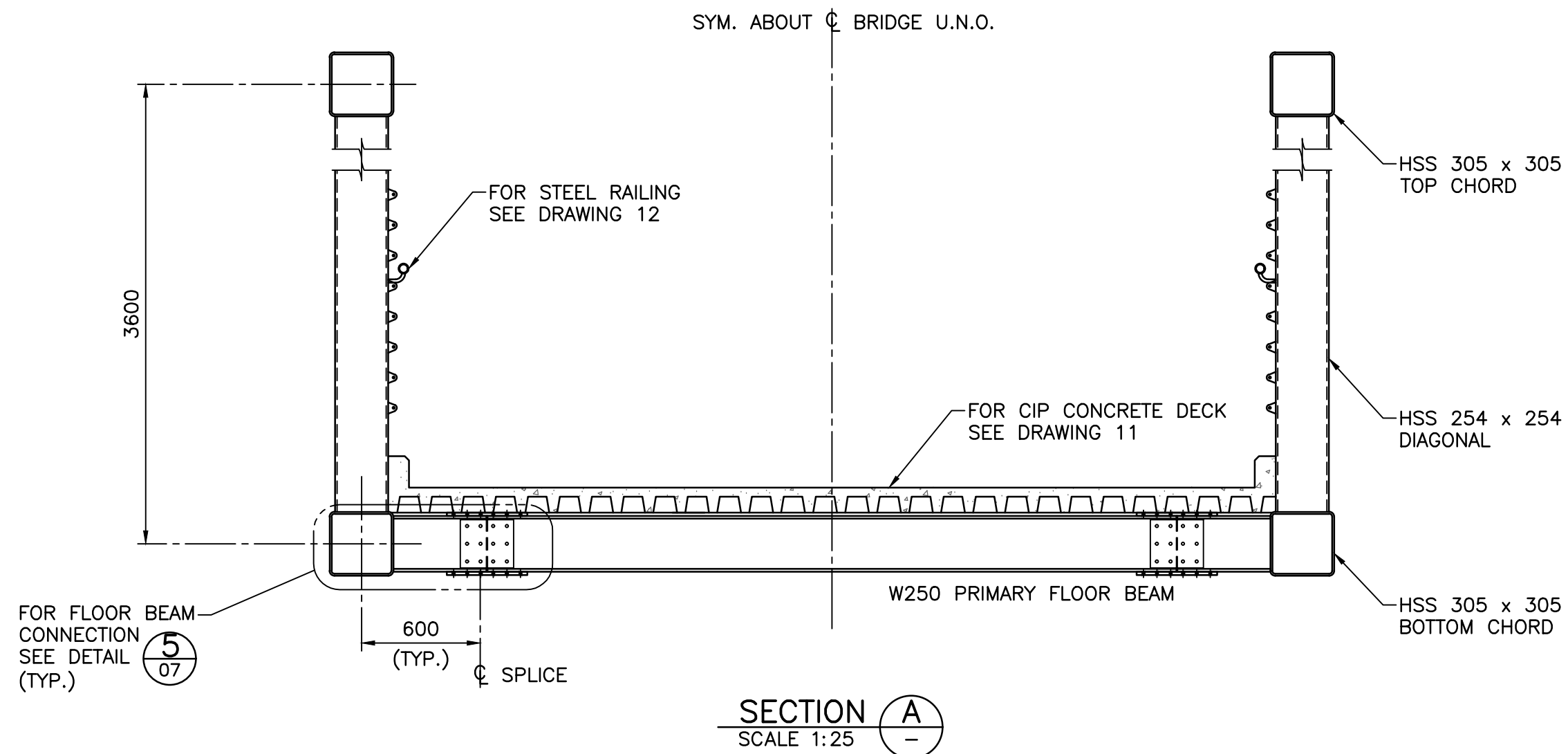
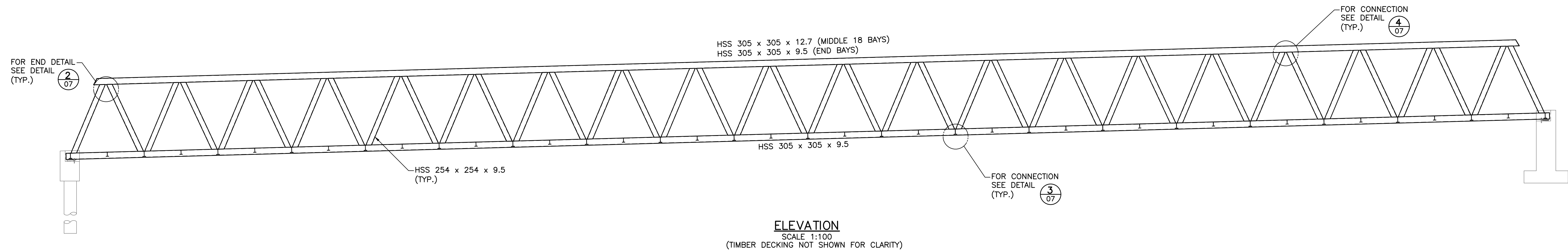
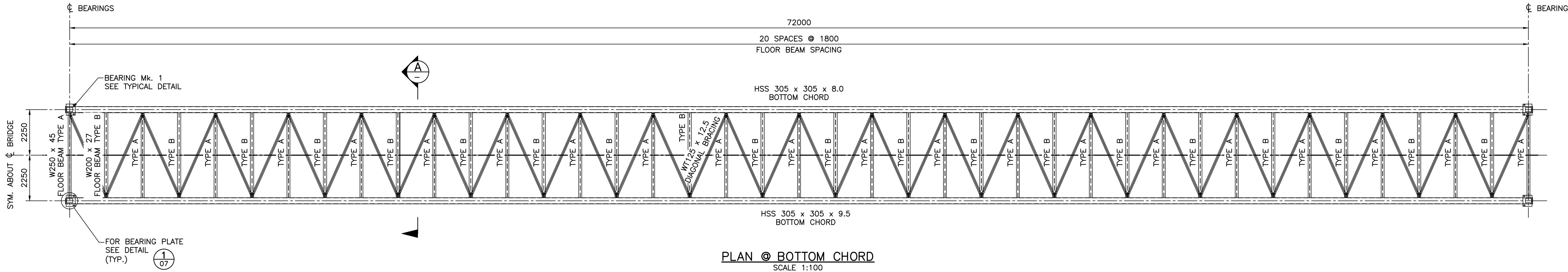
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									DRAWN:	J.BEAUREGARD		 	MAMQUAM CHANNEL PEDESTRIAN BRIDGE				
							DESIGNED:	J.DEKKER	REDBRIDGE SOUTH ABUTMENT DETAILS								
							CHECKED:	T.WANG									
2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	B.HAMERSLEY					SCALE	PROJECT NO.	DWG. NO.	REV.	
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REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED											

CANCEL PRINTS BEARING PREVIOUS REVISION

DWG-0-L

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\09 - Truss Details - Sheet 1.dwg



NOTES:

1. FOR GENERAL NOTES SEE DRAWING 01.

NOT FOR CONSTRUCTION

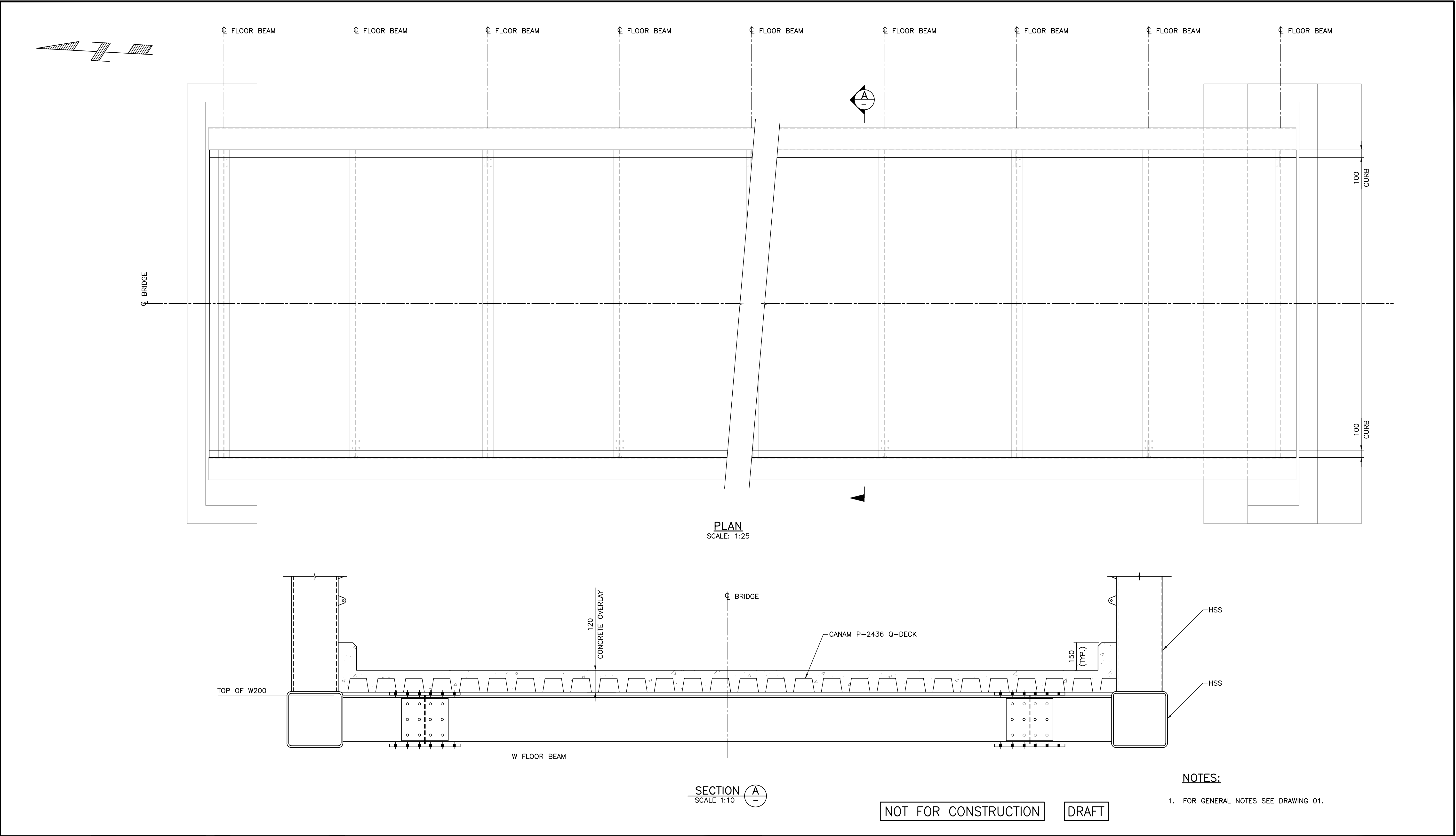
DRAFT

			DRAWING REVISIONS							ORIGINAL ISSUE		AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.	CLIENT		PROJECT			
										DRAWN:	K.VANDERVEEN		 KINGSWOOD PROPERTIES	 SQUAMISH HARDWIRED for ADVENTURE	MAMQUAM CHANNEL PEDESTRIAN BRIDGE			
										DESIGNED:	J.DEKKER				TITLE			
										CHECKED:	T.WANG				REDBRIDGE STEEL TRUSS DETAILS SHEET 1			
			2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	B.HAMERSLEY		 B A S I S	SCALE	PROJECT NO.	DWG. NO.	REV.	
			1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.					AS NOTED	0052	09	2	
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CANCEL PRINTS BEARING PREVIOUS REVISION

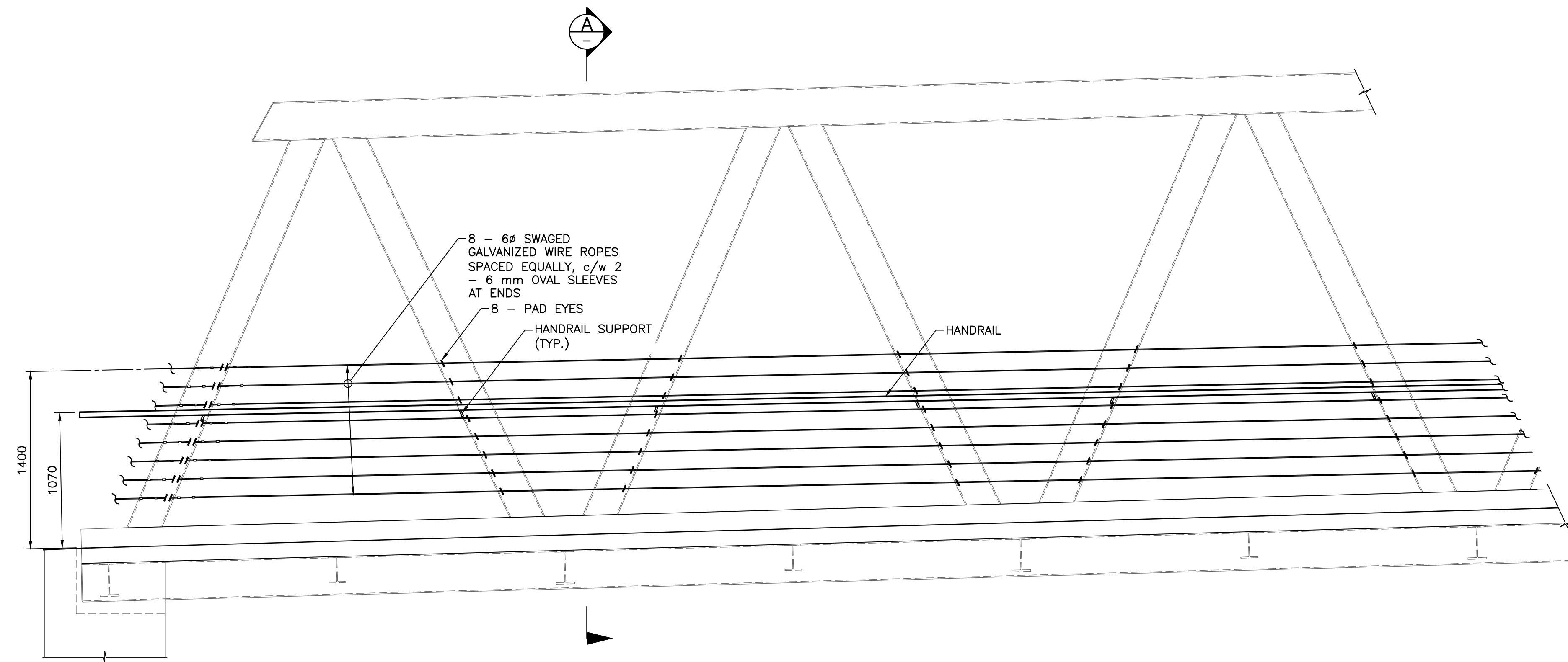
DWG-0-L

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\11 - Deck Details.dwg

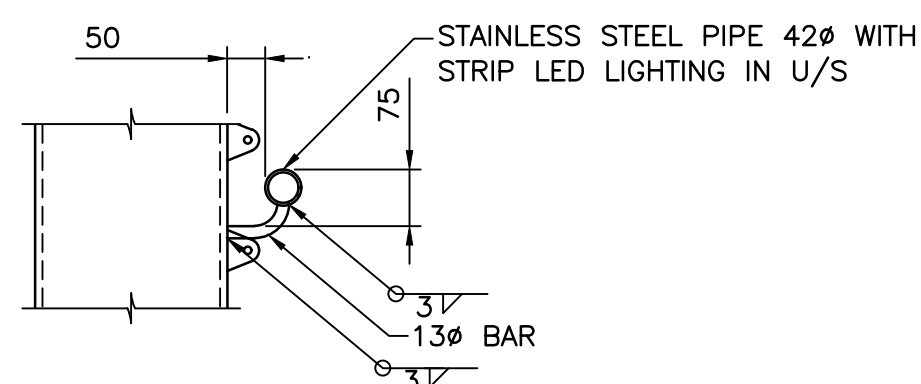


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									DRAWN:	J.BEAUREGARD	KINGSWOOD PROPERTIES SQUAMISH HARDWIRED for ADVENTURE		MAMQUAM CHANNEL PEDESTRIAN BRIDGE					
								DESIGNED:	J.DEKKER	TITLE								
								CHECKED:	T.WANG					REDBRIDGE DECK DETAILS				
2	RE-ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.	APPROVED:	B.HAMERSLEY			BASIS		SCALE	PROJECT NO.	DWG. NO.	REV.		
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REVISION	DESCRIPTION OF REVISION	DATE (YYY-MM-DD)	DRAWN	DESIGNED	CHECKED	APPROVED												

SECTION A
SCALE 1:25



TYPICAL RAILING ELEVATION
SCALE: 1:25
(39 SEGMENTS TOTAL)



DETAIL 1
SCALE 1:10

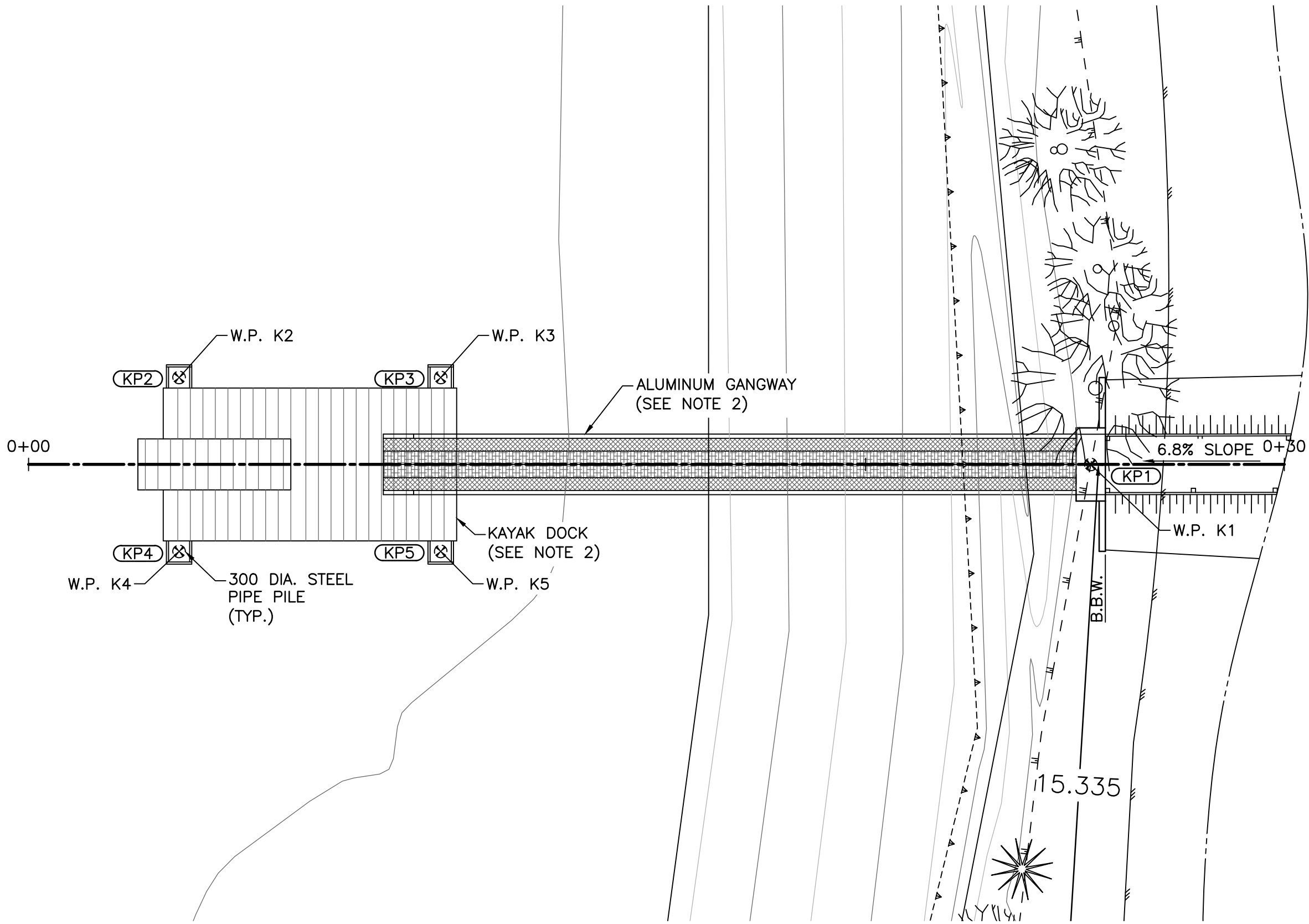
NOT FOR CONSTRUCTION

DRAFT

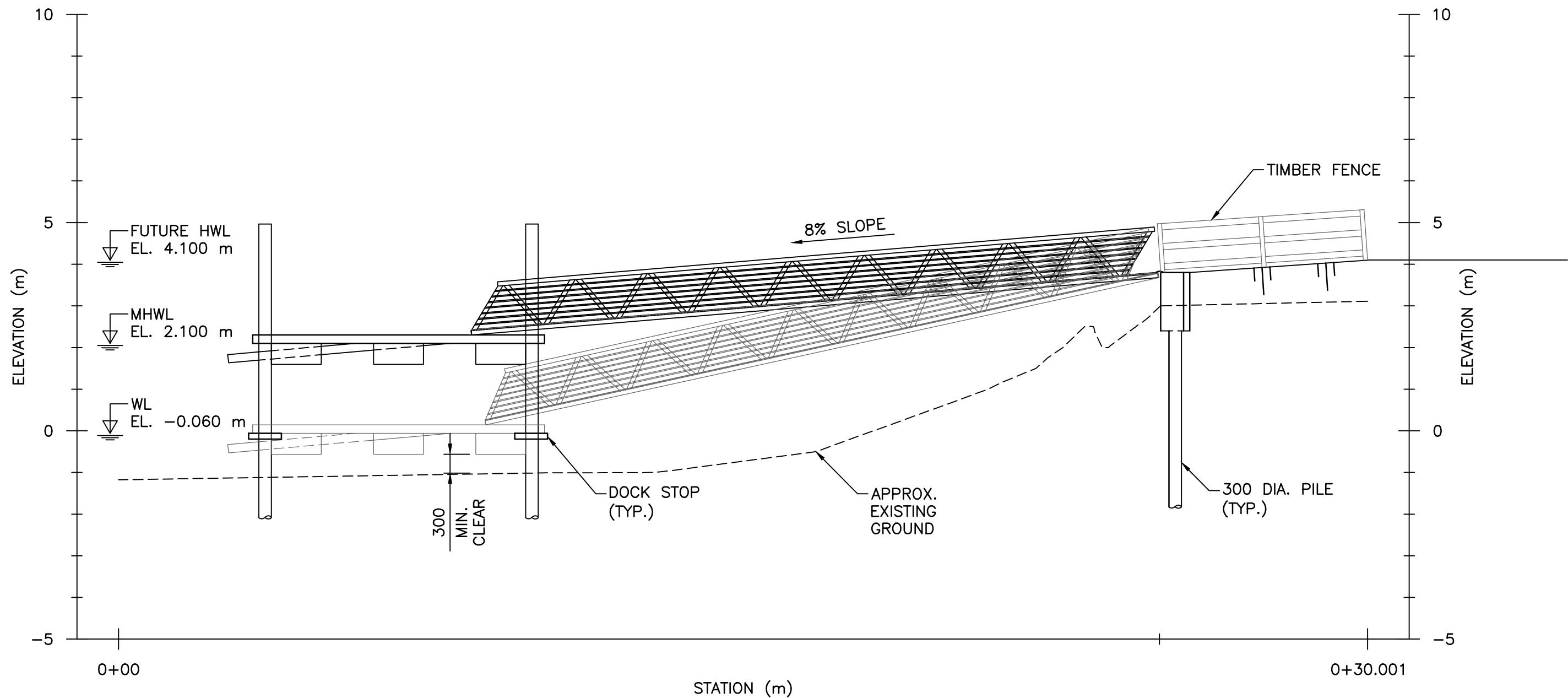
1. FOR GENERAL NOTES SEE DRAWING 01.

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											DRAWN:	J.BEAUREGARD			TITLE REDBRIDGE RAILING DETAILS			
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											CHECKED:	T.WANG						
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			1	RE-ISSUED FOR PERMITTING	2024/07/12	M.B.	J.D.	T.W.	B.H.									
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REVISION	DESCRIPTION OF REVISION	DATE (MM-MM-DD)	DRAWN	DESIGNED	CHECKED	APPROVED					SCALE AS NOTED	PROJECT NO. 0052	DWG. NO. 12	REV. 2				

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\14 - Kayak Dock GA.dwg



PLAN
SCALE 1:100



ELEVATION
SCALE 1:100

NOT FOR CONSTRUCTION

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WORK POINT TABLE		
WORK POINT	NORTHING	EASTING
W.P. K1	5607739.800	689905.739
W.P. K2	5607740.555	689883.874
W.P. K3	5607740.934	689890.113
W.P. K4	5607736.408	689884.126
W.P. K5	5607736.786	689890.365

NOTES:

- FOR GENERAL NOTES SEE DRAWING 01.
- KAYAK DOCK AND ALUMINUM GANGWAY TO BE A DESIGN BUILD COMPONENT BY THE GENERAL CONTRACTOR.
- DOCK AND GANGWAY DECKING MATERIAL TO BE "TITAN OPEN X" CLASSIC DECKING OR APPROVED EQUIVALENT.

PILE LOADS
FACTORED (ULS)

DEAD LOAD: kN
LIVE LOAD: kN
TOTAL: kN

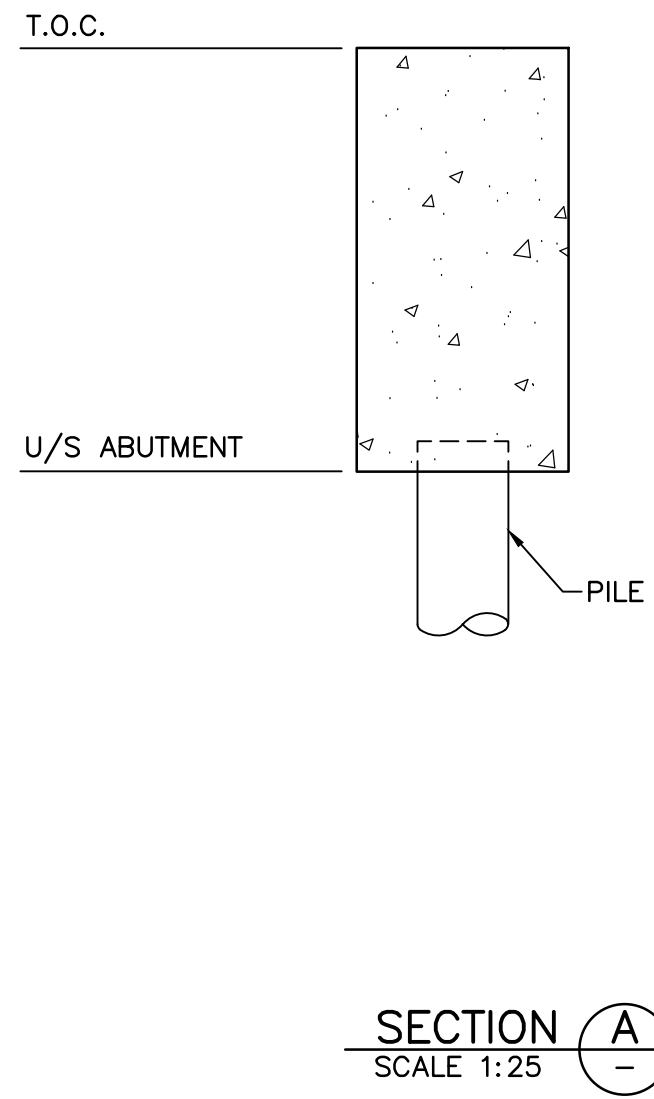
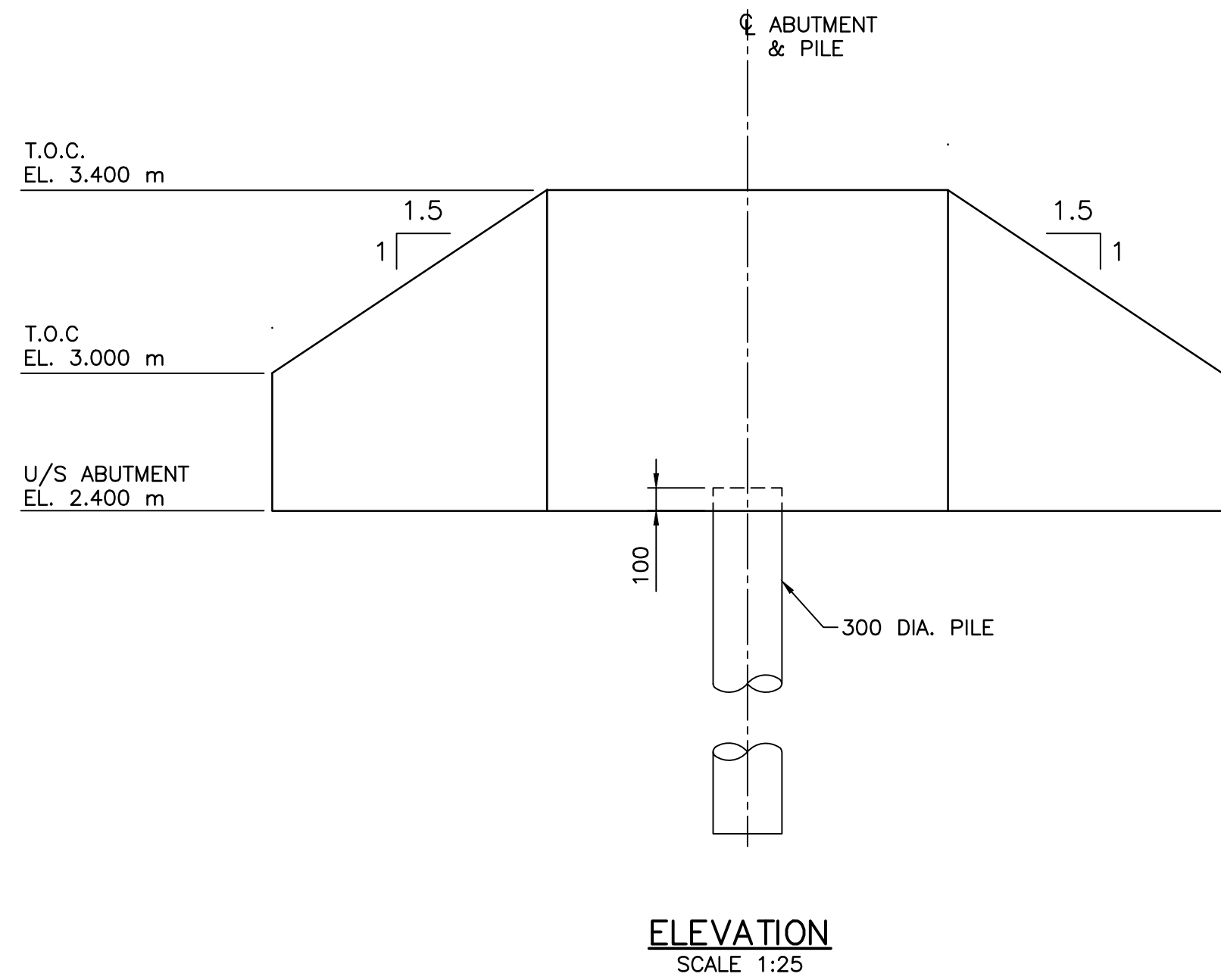
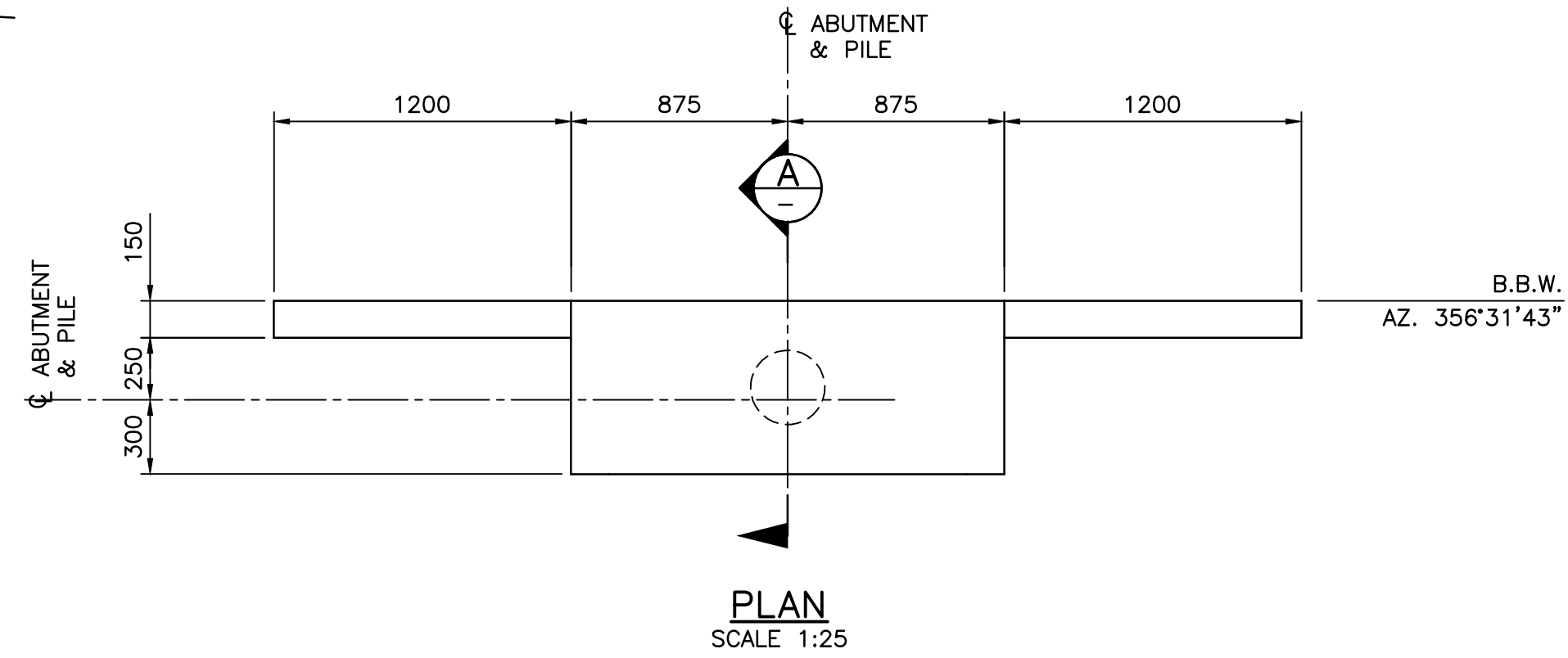
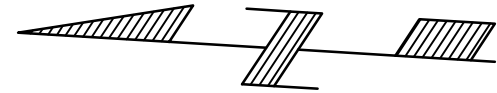
PILE LOADS
UNFACTORED (SLS)

DEAD LOAD: kN
LIVE LOAD: kN
TOTAL: kN

PILE ELEVATION TABLE		
PILE LOCATION	DESIGN PILE TIP EL.	ACTUAL PILE TIP EL.
KP1		
KP2		
KP3		
KP4		
KP5		

			DRAWING REVISIONS								ORIGINAL ISSUE		AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.	CLIENT		PROJECT			
											DRAWN:	J.BEAUREGARD		 	MAMQUAM PEDESTRIAN BRIDGE				
											DESIGNED:	J.DEKKER			TITLE				
											CHECKED:	T.WANG			KAYAK DOCK				
											APPROVED:	B.HAMERSLEY			GENERAL ARRANGEMENT				
		1	RE-ISSUED FOR PERMITTING	2025/05/02	J.B.	J.D.	T.W.	B.H.											
		0	ISSUED FOR PERMITTING	2023/11/30	J.B.	J.D.	T.W.	B.H.											
		REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED											

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\15 - Kayak Dock Details.dwg



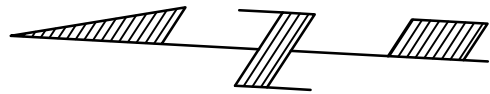
NOT FOR CONSTRUCTION

DRAFT

			DRAWING REVISIONS								ORIGINAL ISSUE		AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.	CLIENT		PROJECT			
											DRAWN:	J.BEAUREGARD		 	MAMQUAM CHANNEL PEDESTRIAN BRIDGE				
											DESIGNED:	J.DEKKER			TITLE KAYAK DOCK DETAILS				
											CHECKED:	T.WANG							
											APPROVED:	B.HAMERSLEY							
			1	RE-ISSUED FOR PERMITTING	2025/05/02	J.B.	J.D.	T.W.	B.H.										
			0	ISSUED FOR PERMITTING	2023/11/30	J.B.	J.D.	T.W.	B.H.							SCALE AS NOTED			
REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED													

DWG-D-1

FILE PATH: P:\0052 - KCD Mamquam Channel Ped Bridge\400 Drawings\04 - Drawings\Site Access - Squamish staging area.dwg



APPROXIMATE STAGING SCHEDULE

- MOBILIZATION — 3 DAYS**
- SITE PREPARATION
 - PLACING OF RIG MATS TO MITIGATE DISTURBANCES
 - REMOVE LUMINAIRE
- FABRICATION — 2 WEEKS**
- ASSEMBLY OF BRIDGE COMPONENTS
 - TRANSFER TO MOVING DOLLIES FOR TRANSPORTATION TO BRIDGE SITE.
- RESTORATION — 3 DAYS**
- REMOVAL OF EQUIPMENT AND RIG MATS
 - REINSTATEMENT OF SITE
 - REINSTATE LUMINAIRE

PLAN
SCALE 1:250

NOT FOR CONSTRUCTION

DRAFT

NOTES:

1. ALL ACCESS TO STAGING AREA TO BE FROM LOGGERS LANE. ACCESS TO OR FROM SITE FOR BRIDGE COMPETITION DELIVERY AND ERECTION TO BE COORDINATED WITH MOTT, WITH NIGHT TIME ACCESS PERMITS TO BE SUBMITTED SEPARATELY.

			DRAWING REVISIONS						ORIGINAL ISSUE		AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.	CLIENT		PROJECT					
									DRAWN:	M.B.		 		MAMQUAM PEDESTRIAN BRIDGE					
									DESIGNED:	J.D.				REDBRIDGE SITE ACCESS PROPOSED STAGING AREA					
									CHECKED:	T.W.									
									APPROVED:	B.H.									
			0	ISSUED FOR PERMITTING	2025/05/02	M.B.	J.D.	T.W.	B.H.							SCALE AS NOTED	PROJECT NO. 0052	DWG. NO. 16	REV. 0
			REVISION	DESCRIPTION OF REVISION	DATE (mm-mm-dd)	DRAWN	DESIGNED	CHECKED	APPROVED										

CANCEL PRINTS BEARING PREVIOUS REVISION

DWG-D-1