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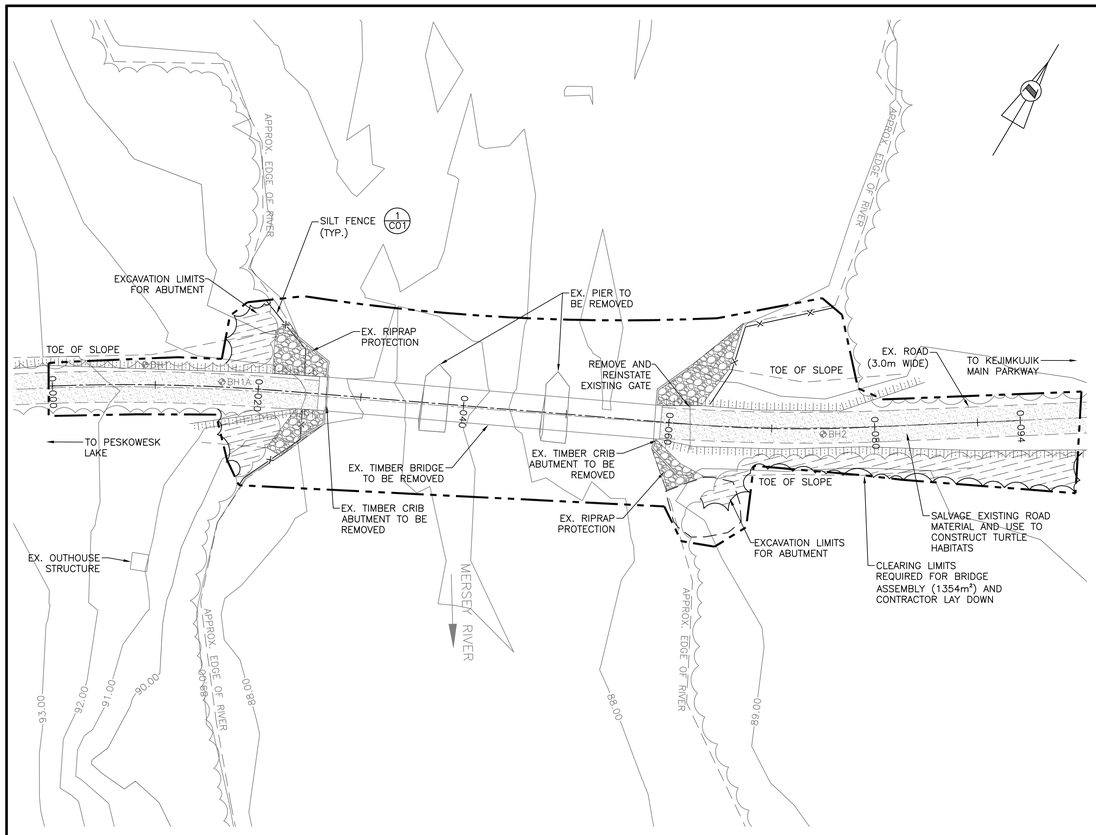
MERSEY RIVER BRIDGE REPLACEMENT
KEJIMKUJIK
NATIONAL PARK
QUEENS COUNTY
NOVA SCOTIA

PROJECT NO. R.077567.001

ISSUED FOR TENDER MAY 13, 2016

633937-0001-D-41-DWG-000-0002-01

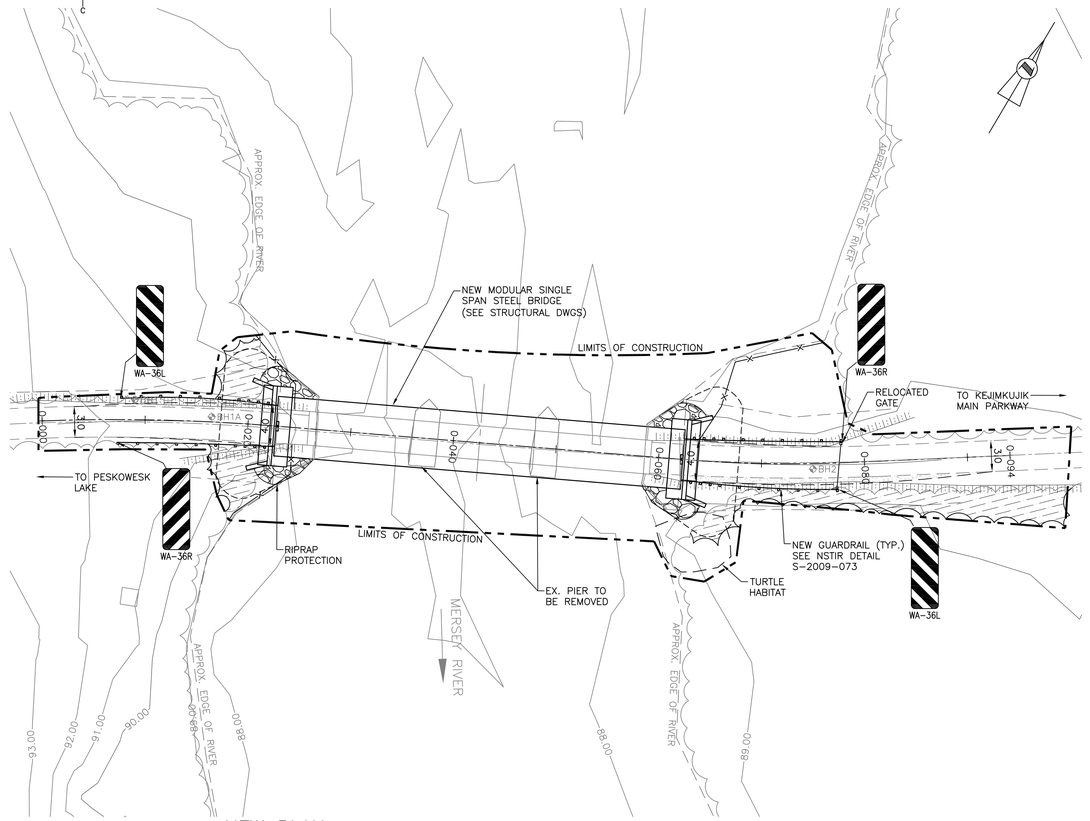
Canada



EXISTING PLAN

SCALE: 1:250

0m 5m 10m 15m 20m 25m



NEW PLAN

SCALE: 1:250

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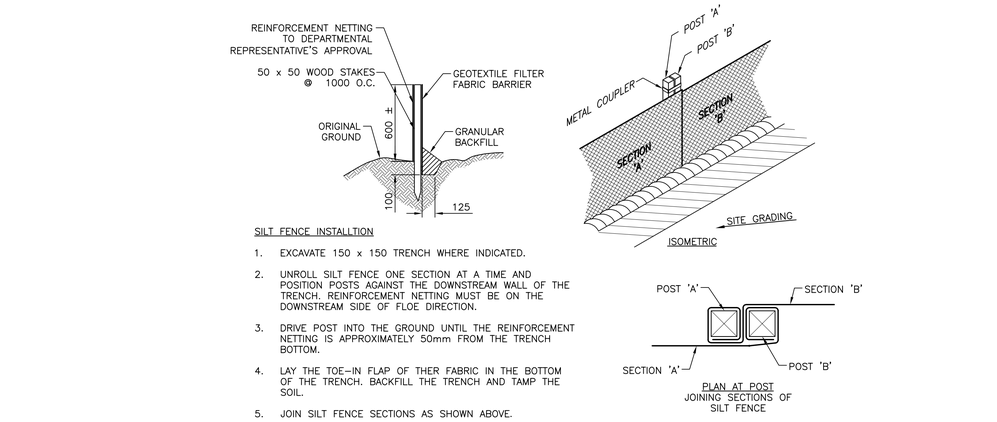
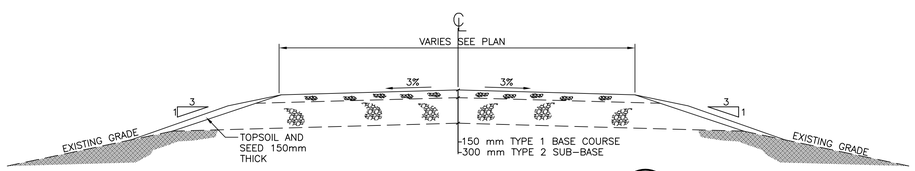


SILT FENCE INSTALLTION

1. EXCAVATE 150 x 150 TRENCH WHERE INDICATED.
2. UNROLL SILT FENCE ONE SECTION AT A TIME AND POSITION POSTS AGAINST THE DOWNSTREAM WALL OF THE TRENCH. REINFORCEMENT NETTING MUST BE ON THE DOWNSTREAM SIDE OF FLOE DIRECTION.
3. DRIVE POST INTO THE GROUND UNTIL THE REINFORCEMENT NETTING IS APPROXIMATELY 50mm FROM THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF THER FABRIC IN THE BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL.
5. JOIN SILT FENCE SECTIONS AS SHOWN ABOVE.

SILT FENCE INSTALLATION (TYP.) 1/C01

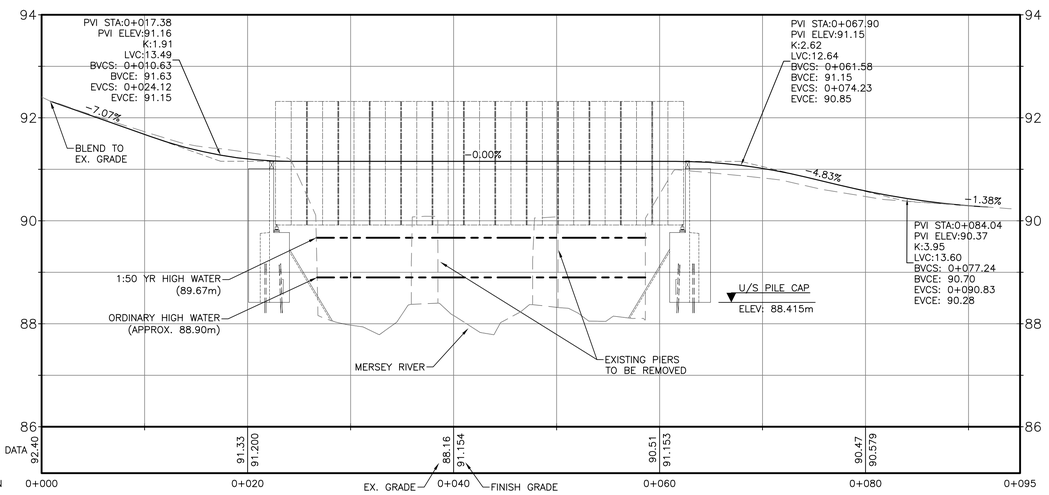
SCALE : N.T.S.



GRAVEL ROAD CROSS-SECTION (TYP.) A/C01

SCALE: 1:50

0m 1m 2m 3m 4m 5m



PROFILE

HORZ. SCALE: 1:250

0m 5m 10m 15m 20m 25m

VERT. SCALE: 1:50

0m 1m 2m 3m 4m 5m

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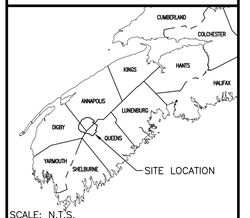

SCALE: N.T.S.

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PROFESSIONAL ENGINEERS PROVINCE OF NOVA SCOTIA — 5073

revisions		date
C01	ISSUED FOR TENDER	MAY 13 2016

project / projet

MERSEY RIVER BRIDGE REPLACEMENT KEJIMKUJIK NATIONAL PARK, NOVA SCOTIA

drawing / dessin

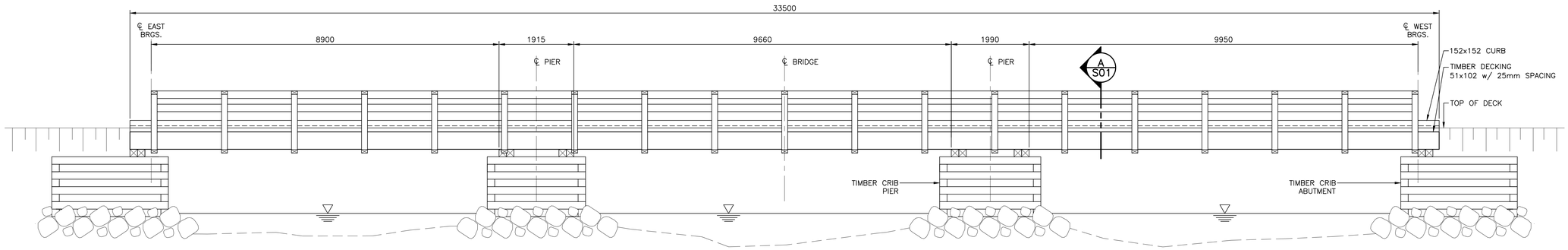
PLAN, PROFILE AND DETAILS

designed JG / conçu
date
drawn JG / dessiné
date
approved AGM / approuvé
date
Tender / Soumission
NDL
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.077567.001
drawing no. / no. du dessin
C01

633937-0001-D-41-DWG-000-0001-01

PWGSC B1 (2004)

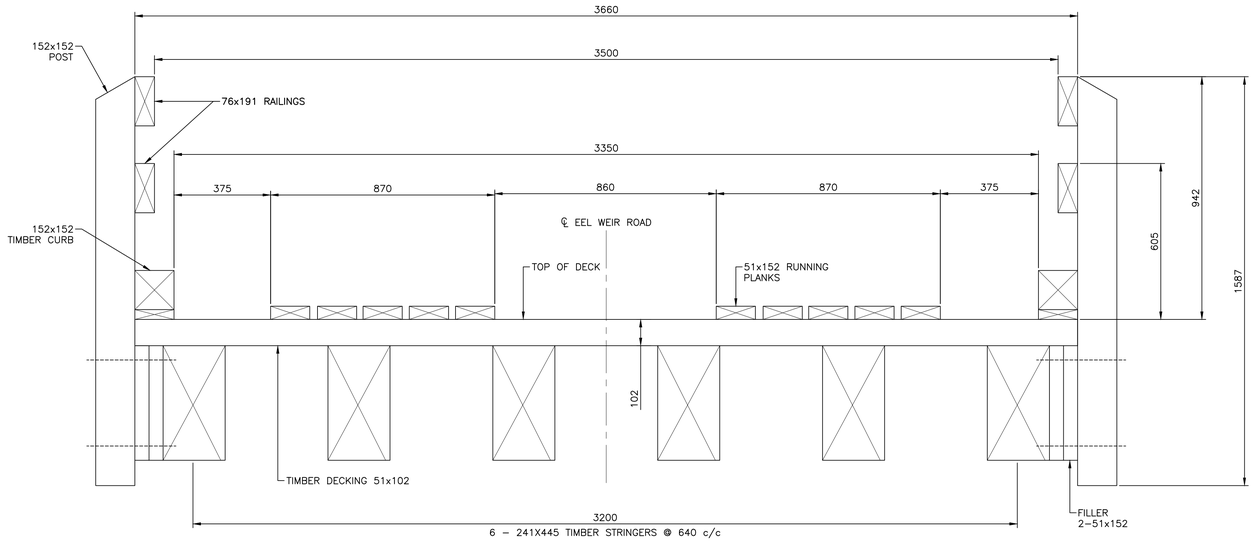
E-DRM/GDD-E: 539823 VERSION 1



NORTH ELEVATION (LOOKING SOUTH)

SCALE: 1:50

0m 1m 2m 3m 4m 5m



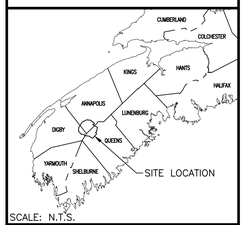
SECTION – EXISTING BRIDGE A S01

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

Government of Canada / Gouvernement du Canada

Parks Canada / Parcs Canada



SCALE: N.T.S.

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REGISTERED PROFESSIONAL ENGINEER PROVINCE OF NOVA SCOTIA DATE MAY 13 2016 T.D. BOUDREAU 8958

revisions		date
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project / projet

MERSEY RIVER BRIDGE REPLACEMENT KEJIMKUJIK NATIONAL PARK, NOVA SCOTIA

drawing / dessin

EXISTING CONDTIONS

designed TDB / conçu
date

drawn TMB / dessiné
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approved NDL / approuvé
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S01

6339J7-0001-D-43-DWG-000-0001-01

PWGSC B1 (2004)

E-DRM/GDD-E: 539823 VERSION 1

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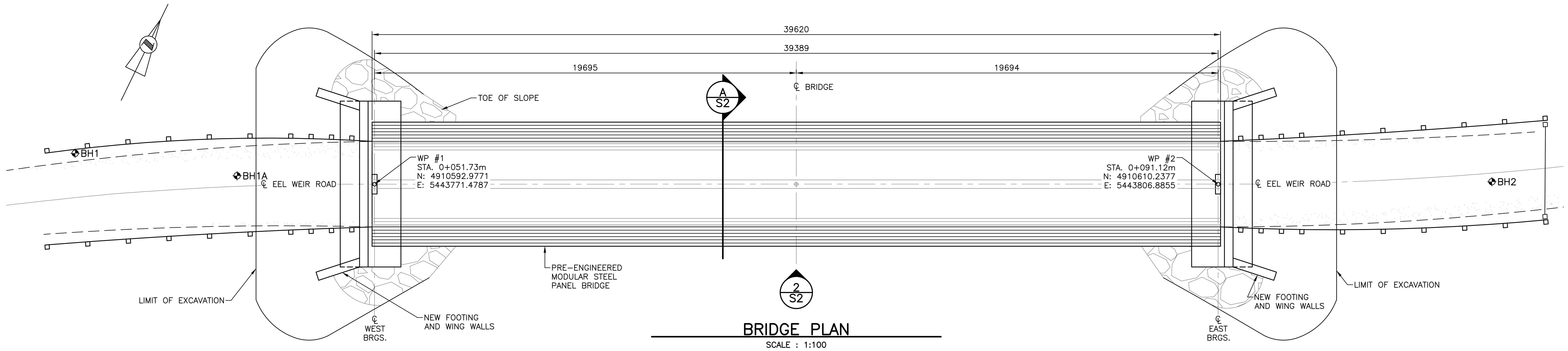
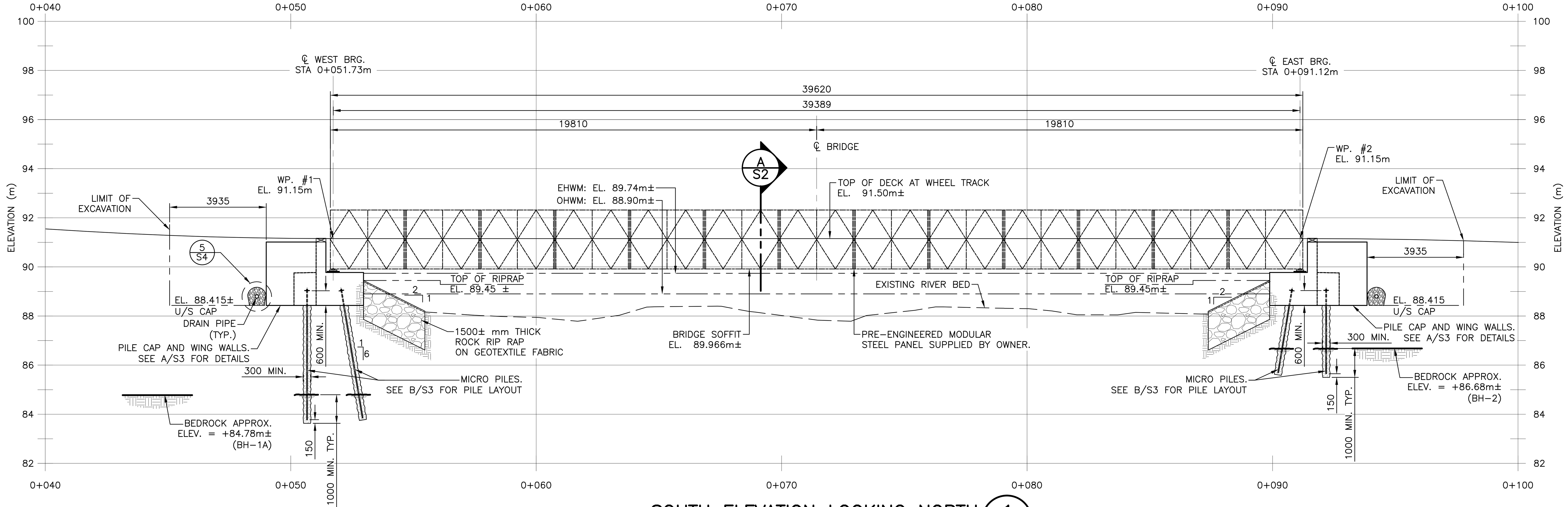


BRIDGE PLAN

SCALE : 1:100

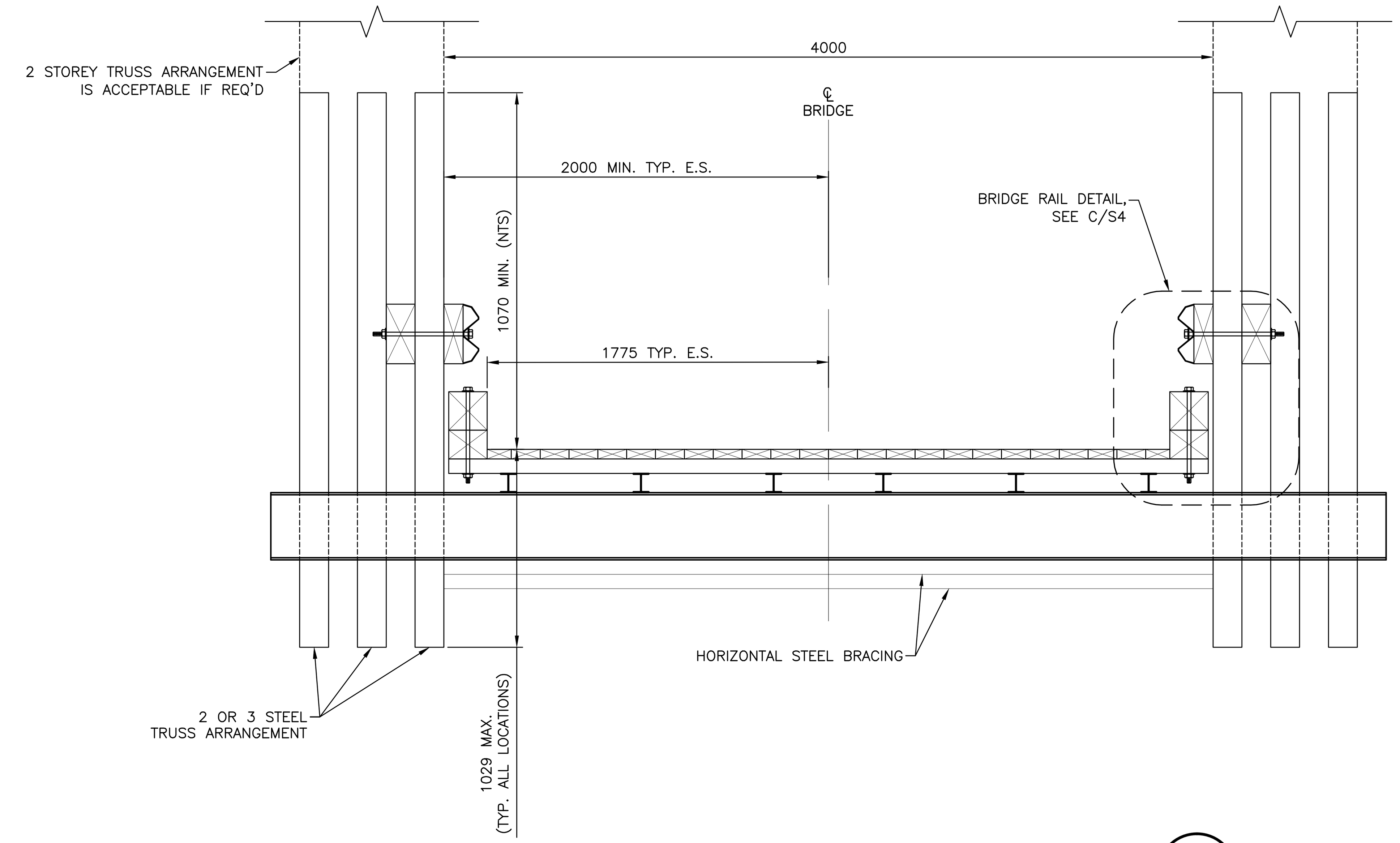


SOUTH ELEVATION LOOKING NORTH (1/S2)

SCALE : 1:100

COORDINATE WITH PRE-ENGINEERED MODULAR STEEL BRIDGE SHOP DRAWINGS.

BRIDGE WORKING POINTS				
WORK-POINT (WP#)	STATIONS	ABUTMENT	NORTHING	EASTING
WP#1	0+051.73m	WEST	4910592.9771	5443771.4787
WP#2	0+091.12m	EAST	4910610.2377	5443806.8855



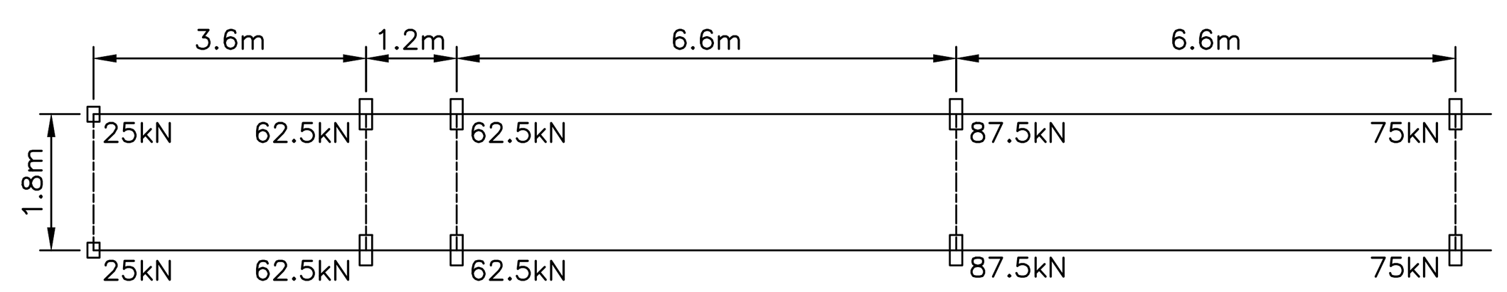
SECTION – FABRICATED BRIDGE AT MIDSPAN (A/S2)

SCALE : 1:20

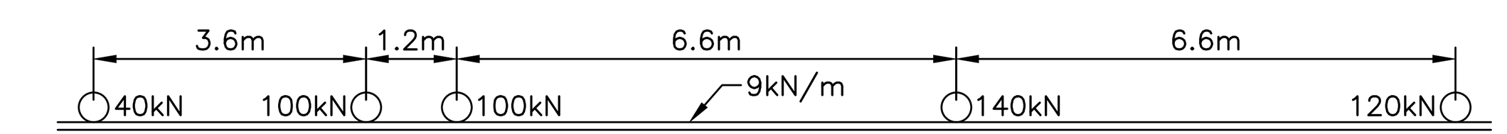
GENERAL NOTES:

1. BRIDGE DESIGN IN ACCORDANCE WITH CAN/CSA-S6-06. CANADIAN HIGHWAY BRIDGE DESIGN CODE.
2. DESIGN LIVE LOAD CL 625.

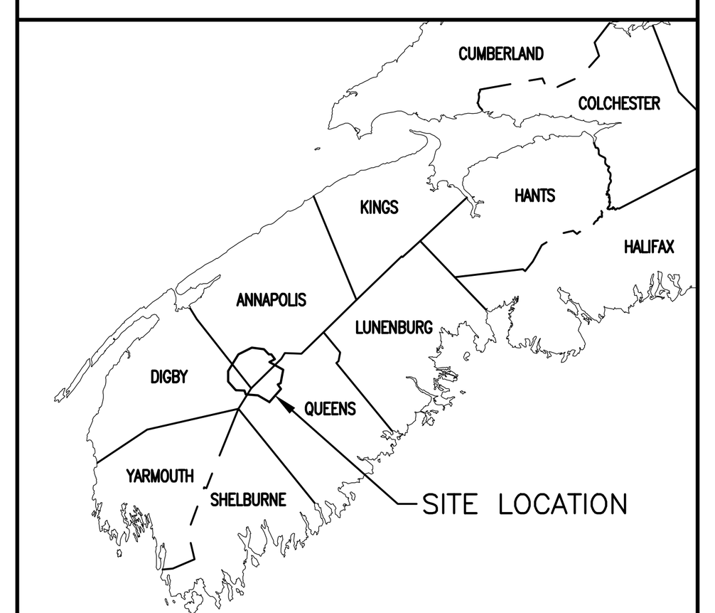
A. CL-625 TRUCK LOADING



B. CL-625 LANE LOADING



4. CONSTRUCTION AND MATERIALS IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MAINTENANCE, WITH LATEST REVISIONS.
5. HIGHWAY DESIGN IN ACCORDANCE WITH TRANSPORTATION ASSOCIATION OF CANADA MANUAL OF GEOMETRIC DESIGN STANDARDS FOR CANADIAN ROADS.
6. ALL DIMENSIONS MILLIMETERS UNLESS OTHERWISE STATED.
7. ALL ELEVATIONS AND STATIONS IN METERS.



SCALE: N.T.S.

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REGISTERED PROFESSIONAL ENGINEER — DATE MAY 13 2016 — T.D. Barkhouse — 8988 — PROVINCE OF NOVA SCOTIA

C01	ISSUED FOR TENDER	MAY 13 2016
revisions		date

project / projet: MERSEY RIVER BRIDGE REPLACEMENT KEJIMKUJIK NATIONAL PARK, NOVA SCOTIA

drawing / dessin: GENERAL ARRANGEMENT PLAN & ELEVATIONS

designed / conçu: TDB
date

drawn / dessiné: TMB
date

approved / approuvé: NDL
date

Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC

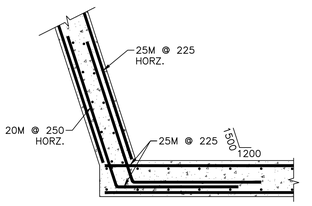
project number / no. du projet: R.007567.001

drawing no. / no. du dessin: S02

633937-0001-D-43-DWG-000-0002-01

PWGSC B1 (2004)

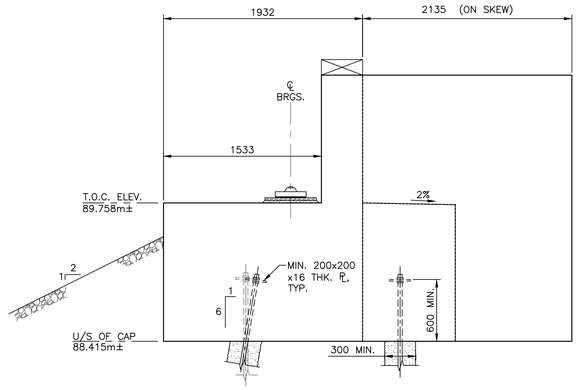
E-DRM/GDD-E: 539823 VERSION 1



SECTION – TYP. WING WALL REINF. C S3

SCALE: 1:25

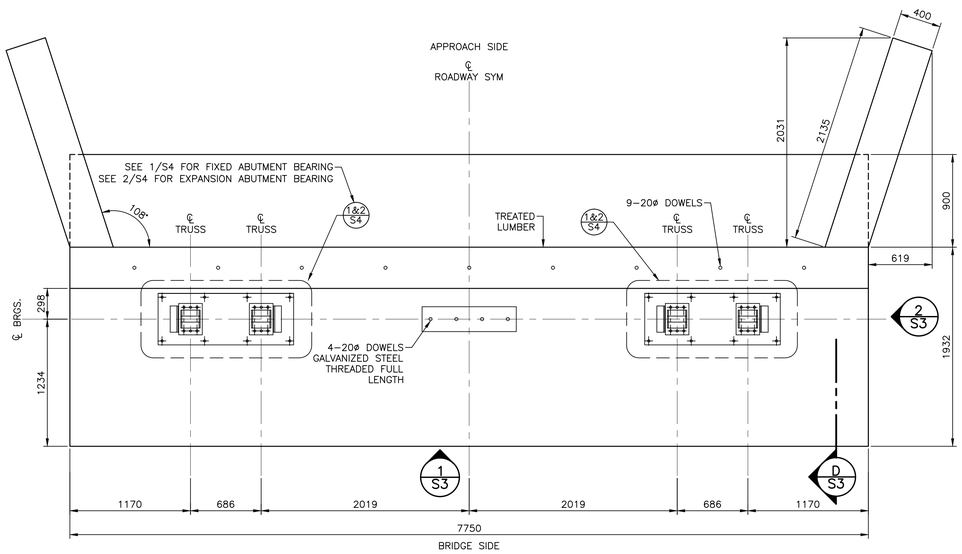
0mm 500mm 1000mm 1500mm 2000mm 2500mm



ELEVATION – PILE CAP/WING WALL 2 S3

SCALE: 1:25

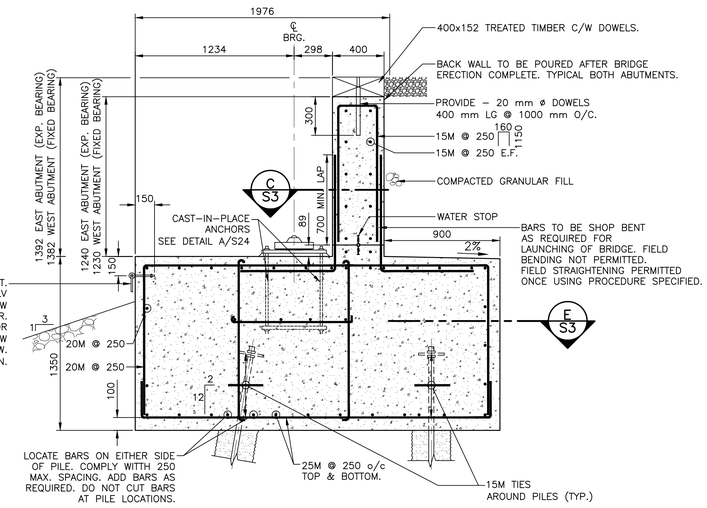
0mm 500mm 1000mm 1500mm 2000mm 2500mm



PLAN – TYP. PILE CAP/WING WALL A S2

SCALE: 1:25

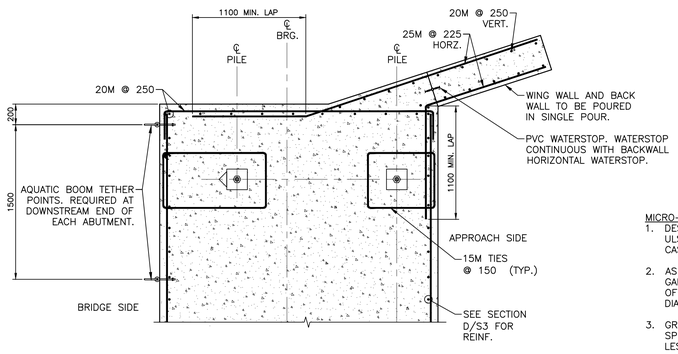
0mm 500mm 1000mm 1500mm 2000mm 2500mm



SECTION – PILE CAP D S3

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



SECTION – TYP. NEW PILE REINFORCING E S3

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

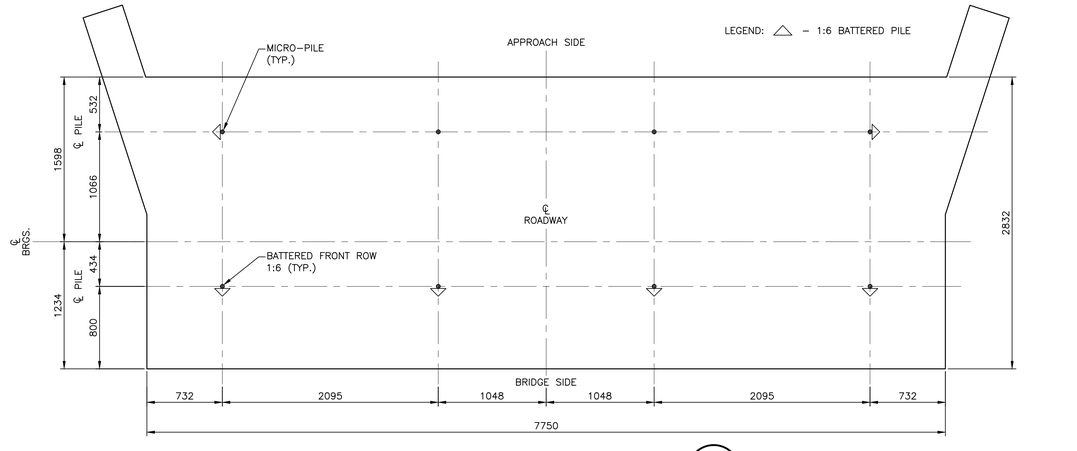
MICRO–PILE NOTES:

1. DESIGN EACH MICRO–PILE FOR FACTORED ULS LOAD OF 450kN. USE STAY–IN–PLACE CASING IF REQUIRED.
2. AS A MINIMUM, PROVIDE 1 ASTM A615 GALVANIZED THREADED BAR FULL LENGTH OF PILE AS SPECIFIED WITH MINIMUM DIAMETER NOT LESS THAN 40mm.
3. GROUT FOR MICRO–PILE SHALL BE AS SPECIFIED AND AS PER DESIGN, BUT NOT LESS THAN 300mm DIAMETER.

ELEVATION – TYP. FOOTING/WING WALL 1 S3

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm



SECTION – TYP. FOOTING B S2,S3

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

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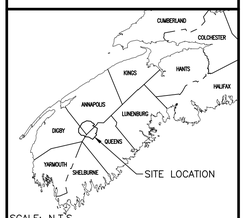

SCALE: N.T.S.

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NOVA SCOTIA PROFESSIONAL ENGINEERS 2016 STATE LIMITED 8988 PROVINCE OF NOVA SCOTIA

revisions		date
C01	ISSUED FOR TENDER	MAY 13 2016

project / projet

MERSEY RIVER BRIDGE REPLACEMENT KEJIMKUJIK NATIONAL PARK, NOVA SCOTIA

drawing / dessin

FOUNDATION & ABUTMENT DETAILS

designed TDB / conçu
date
drawn TMB / dessiné
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approved NDL / approuvé
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S03

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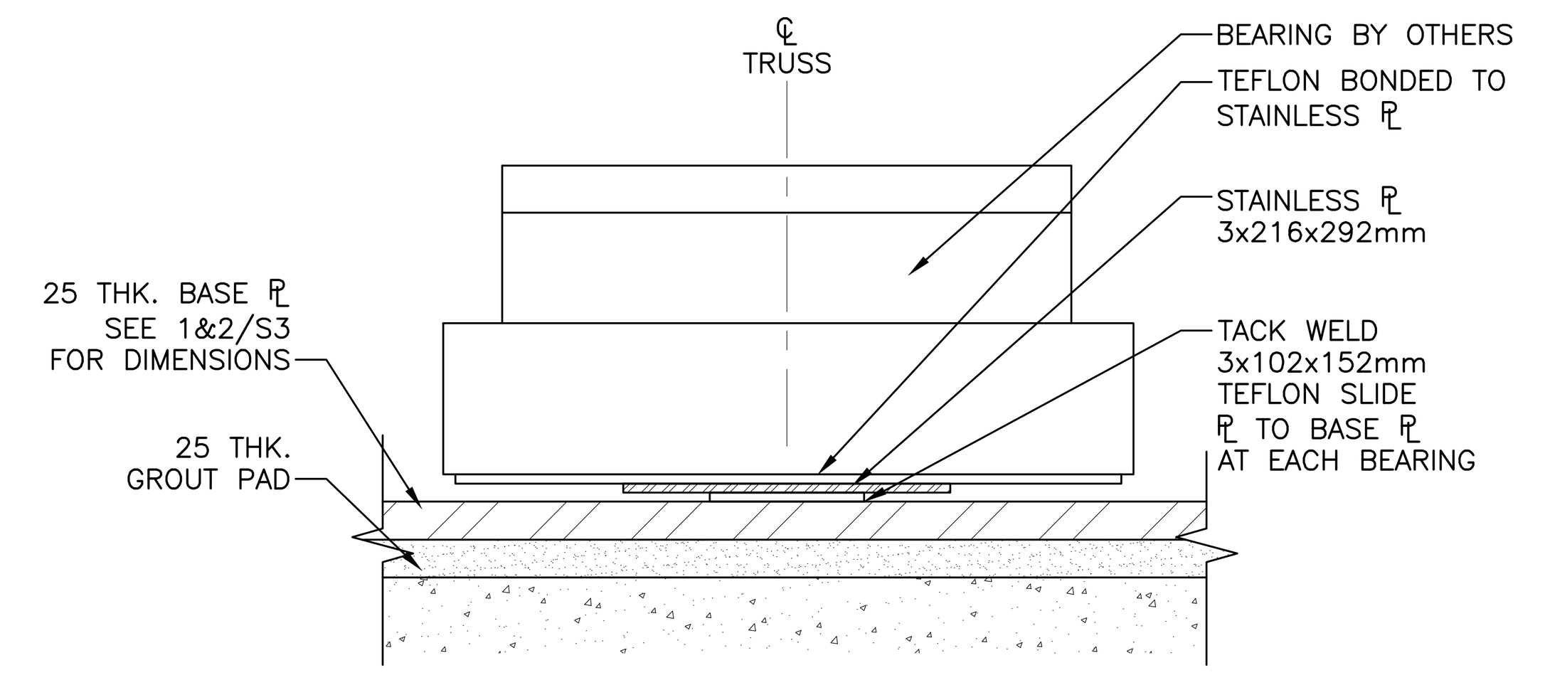
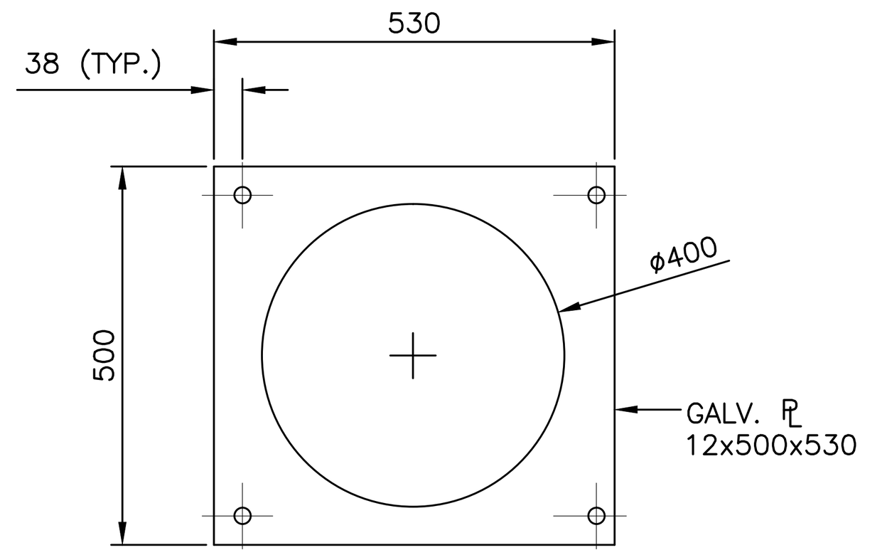
PWGSC B1 (2004)

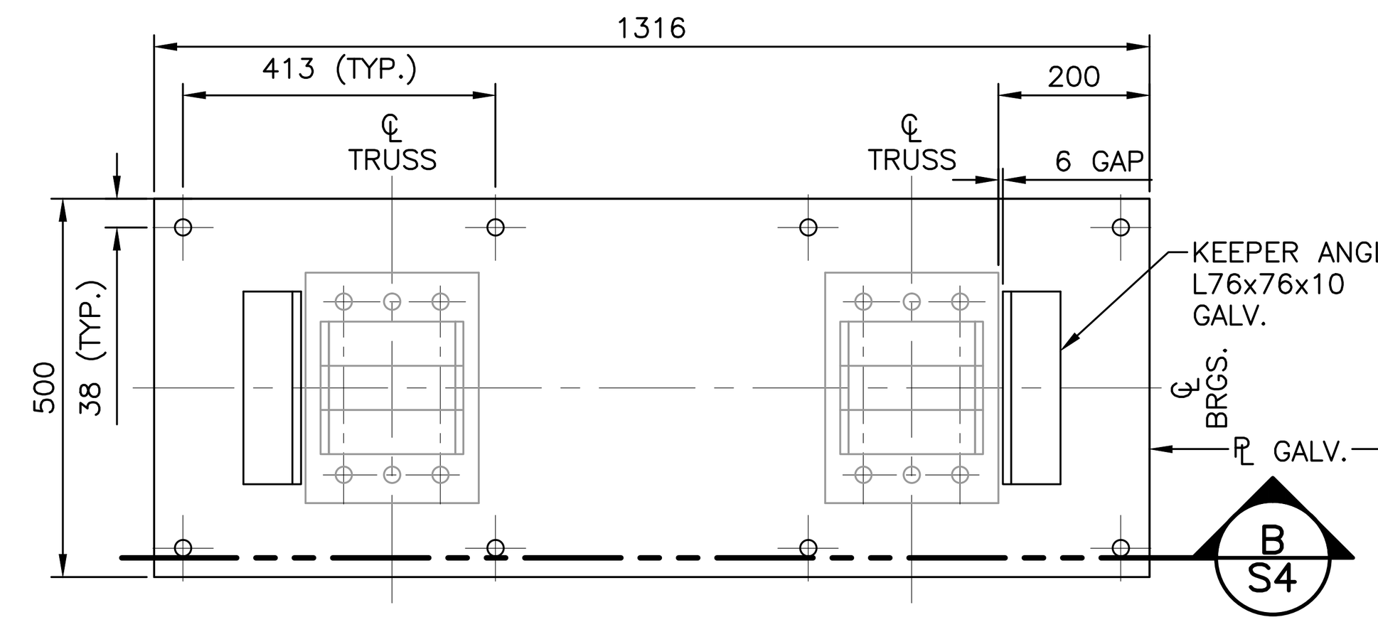
E-DRM/GDD-E: 539823 VERSION 1



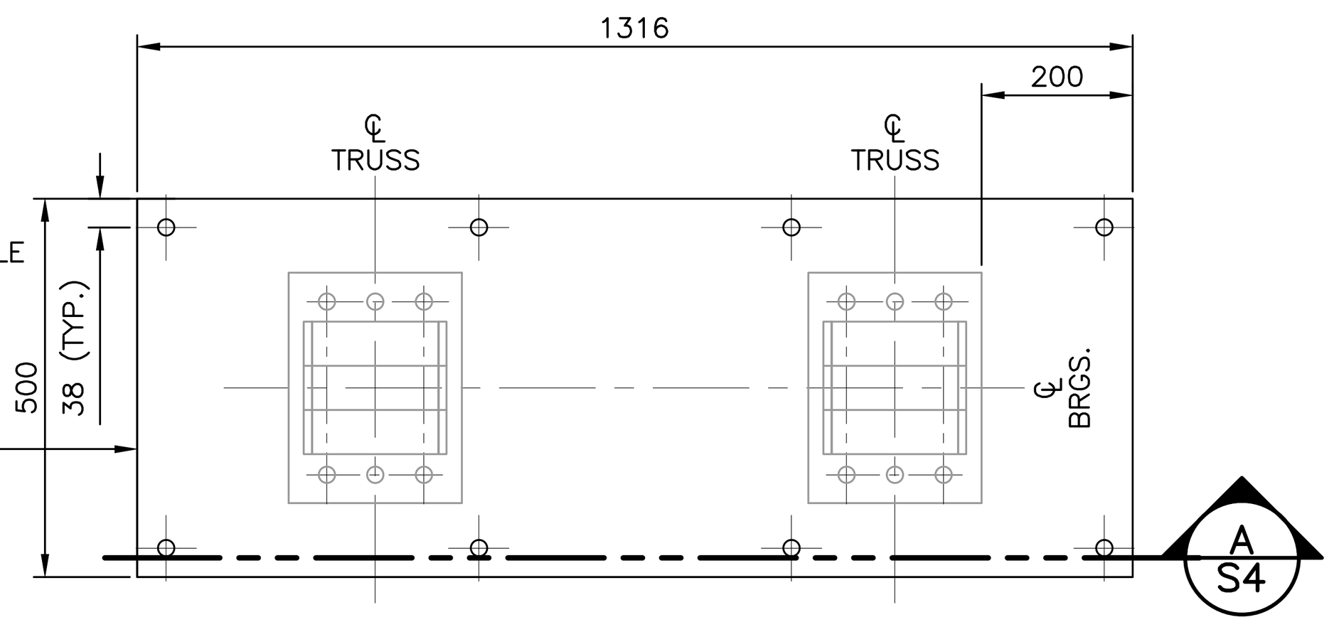
DETAIL – TYP. BEARING AT EAST ABUTMENT END 4/S4
SCALE: 1:5



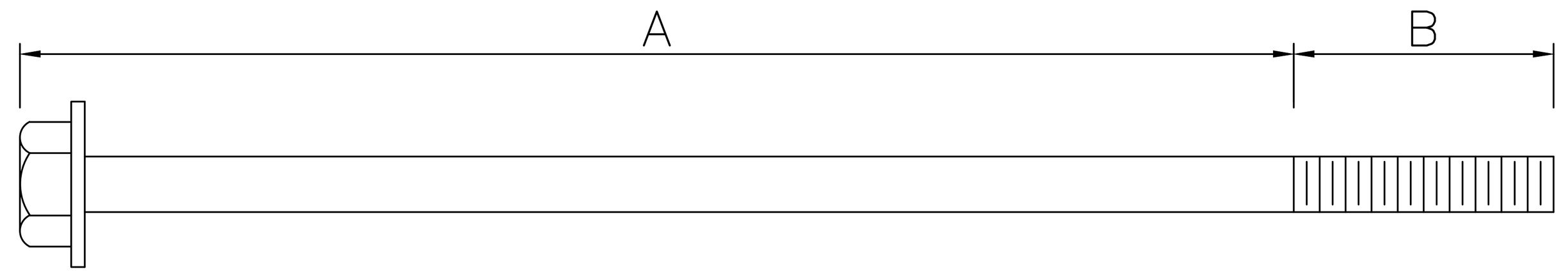
DETAIL – TYP. ANCHOR PLATE 3/S4
SCALE : 1:10



DETAIL – BEARING BASE PLATE AT EXPANSION BEARING 2/S3
SCALE : 1:10

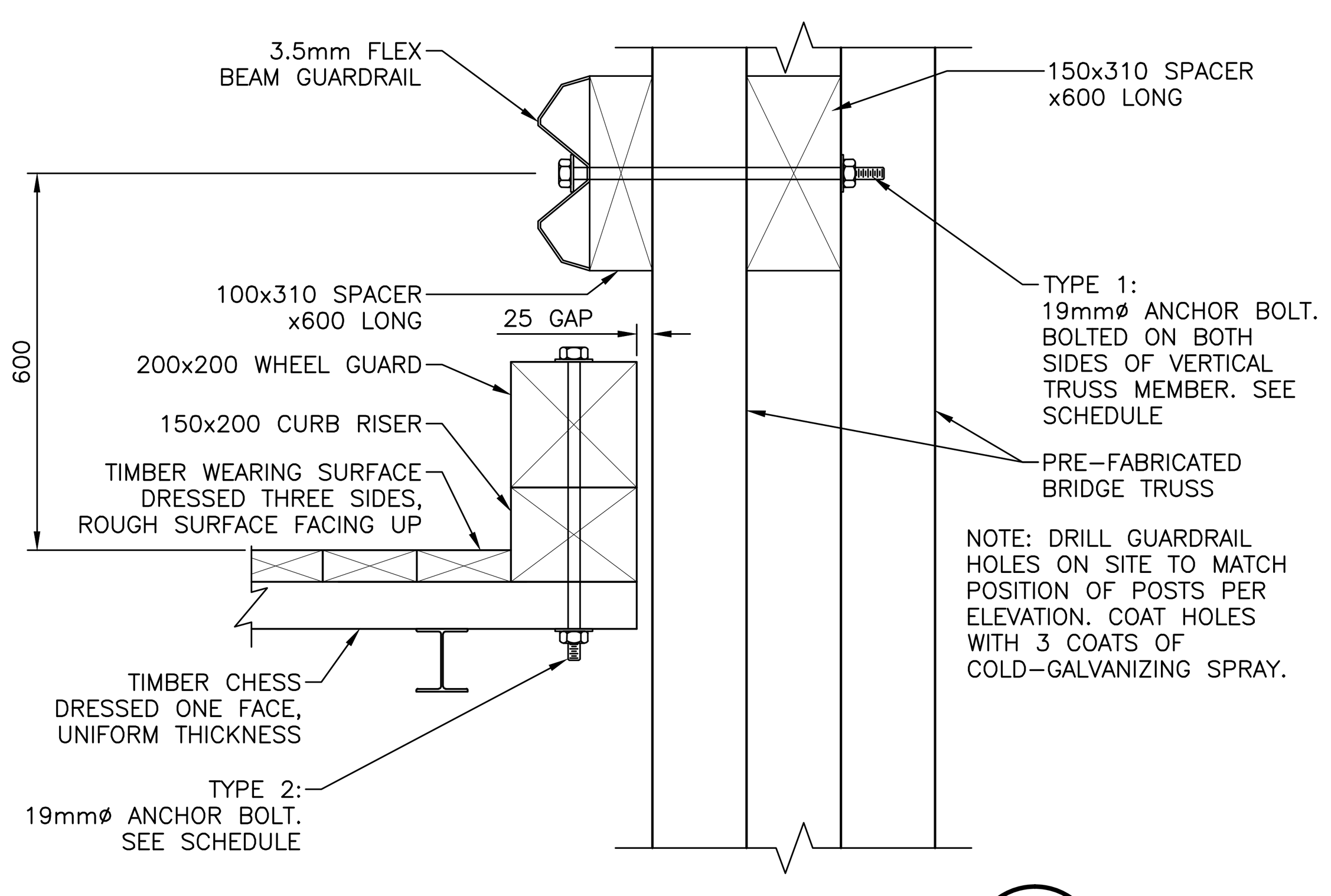


DETAIL – BEARING BASE PLATE AT FIXED BEARING 1/S3
SCALE : 1:10

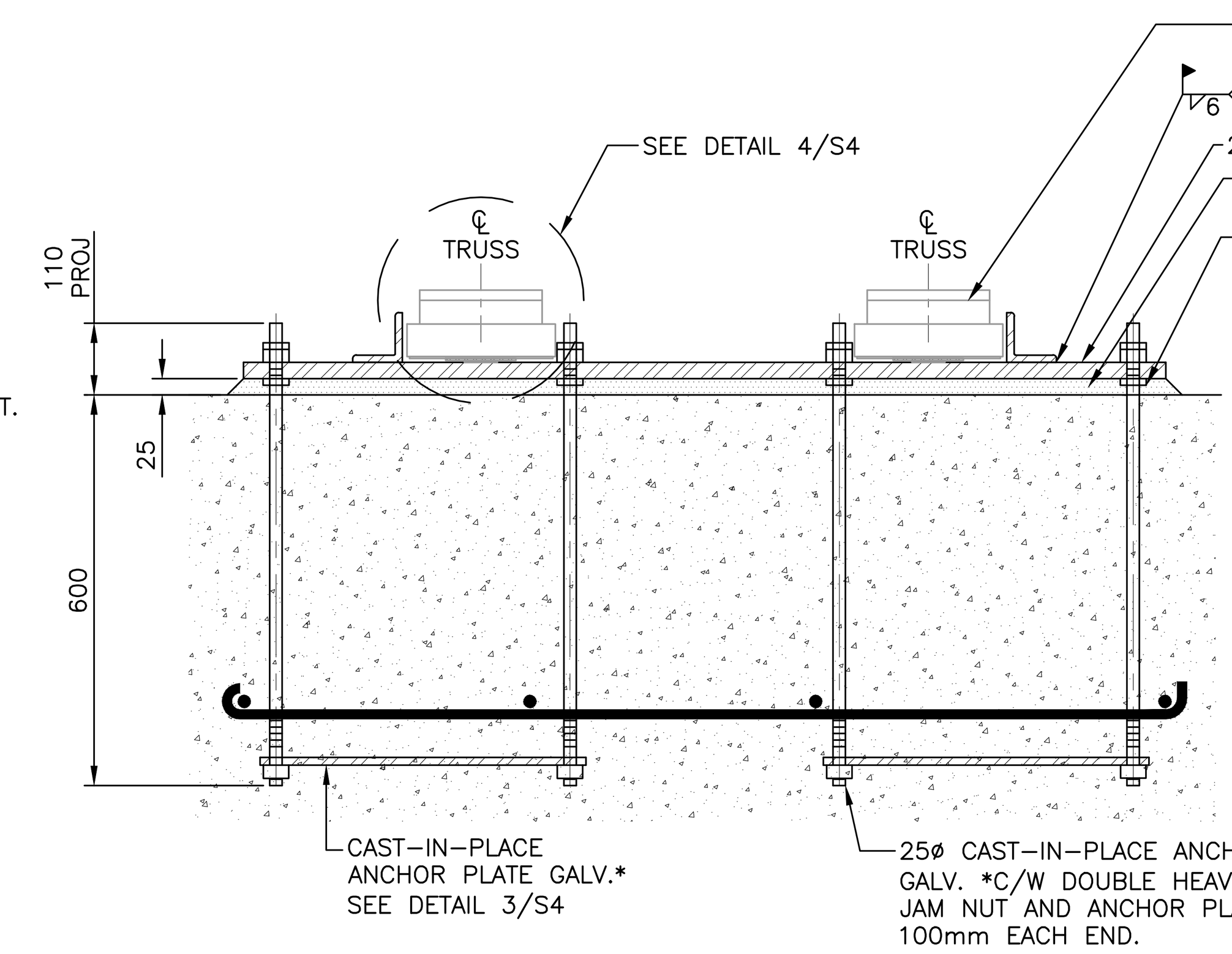


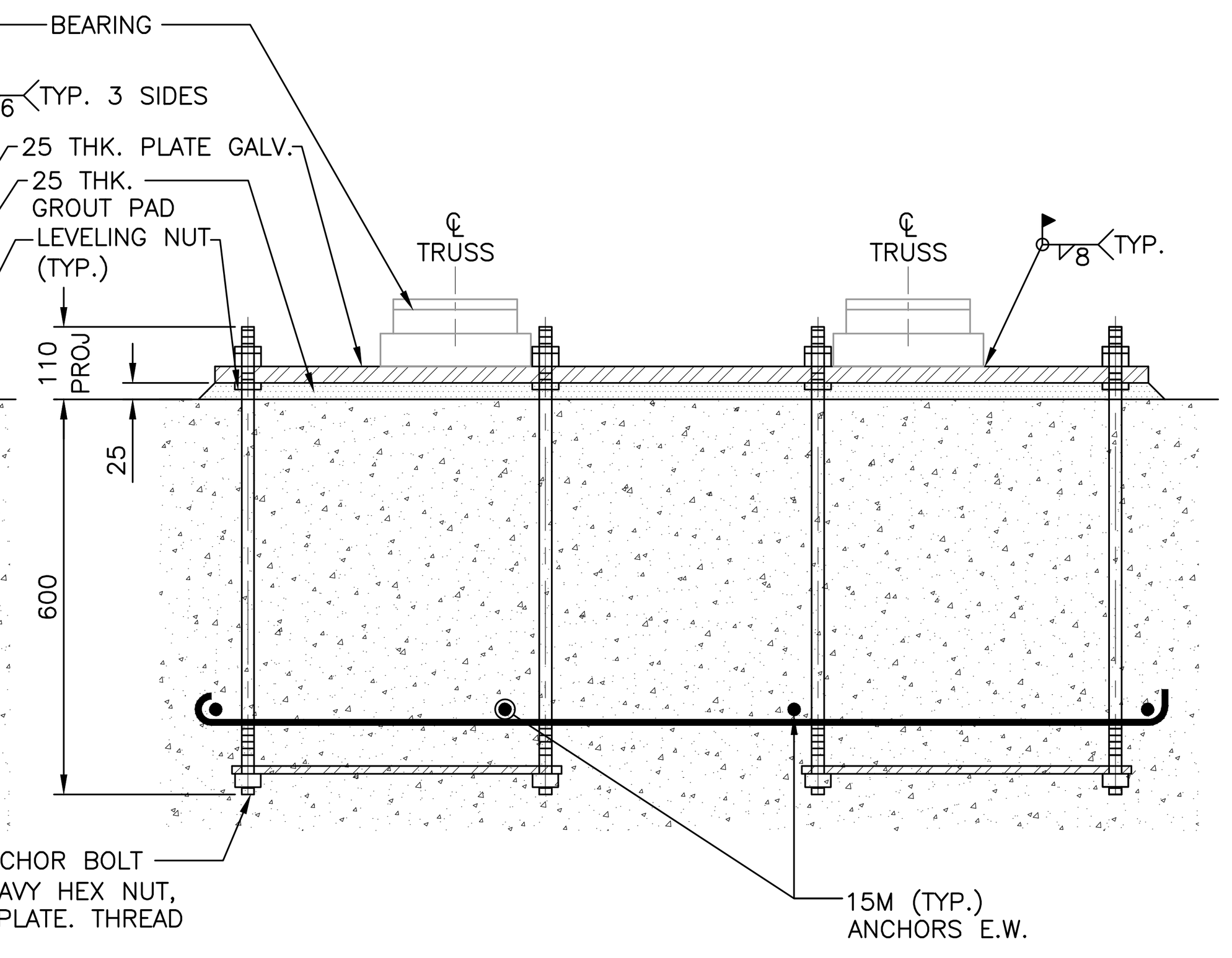
ANCHOR BOLT SCHEDULE					
TYPE	DIMENSIONS(mm)		DIAMETER(mm)	MATERIAL	REMARKS
	A	B			
1	476	100	19	A36 STEEL GALV.*	C/W NUT & WASHER
2	447	100	19	A36 STEEL GALV.*	C/W NUT & WASHER

* HOT DIP GALVANIZED AND SPUN COMPLETE WITH COMPATIBLE GALVANIZED NUT AND WASHERS. SHIPPED PREASSEMBLED.



SECTION – BRIDGE RAIL C/S2
SCALE : 1:10



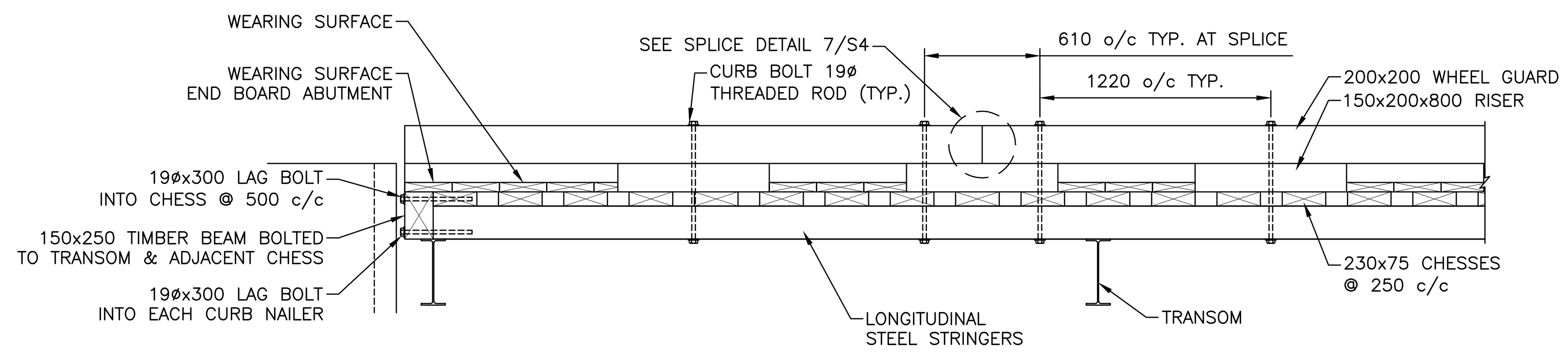


NOTES
* THREADED COMPONENTS "GALVANIZED": TO CAN/CSA G164-M92 (R2003). HOT DIP GALVANIZE AND SPIN THREADED COMPONENTS OF EACH ASSEMBLY BY SAME PROCESS BY SAME SUPPLIER. SHIP PRE ASSEMBLED.

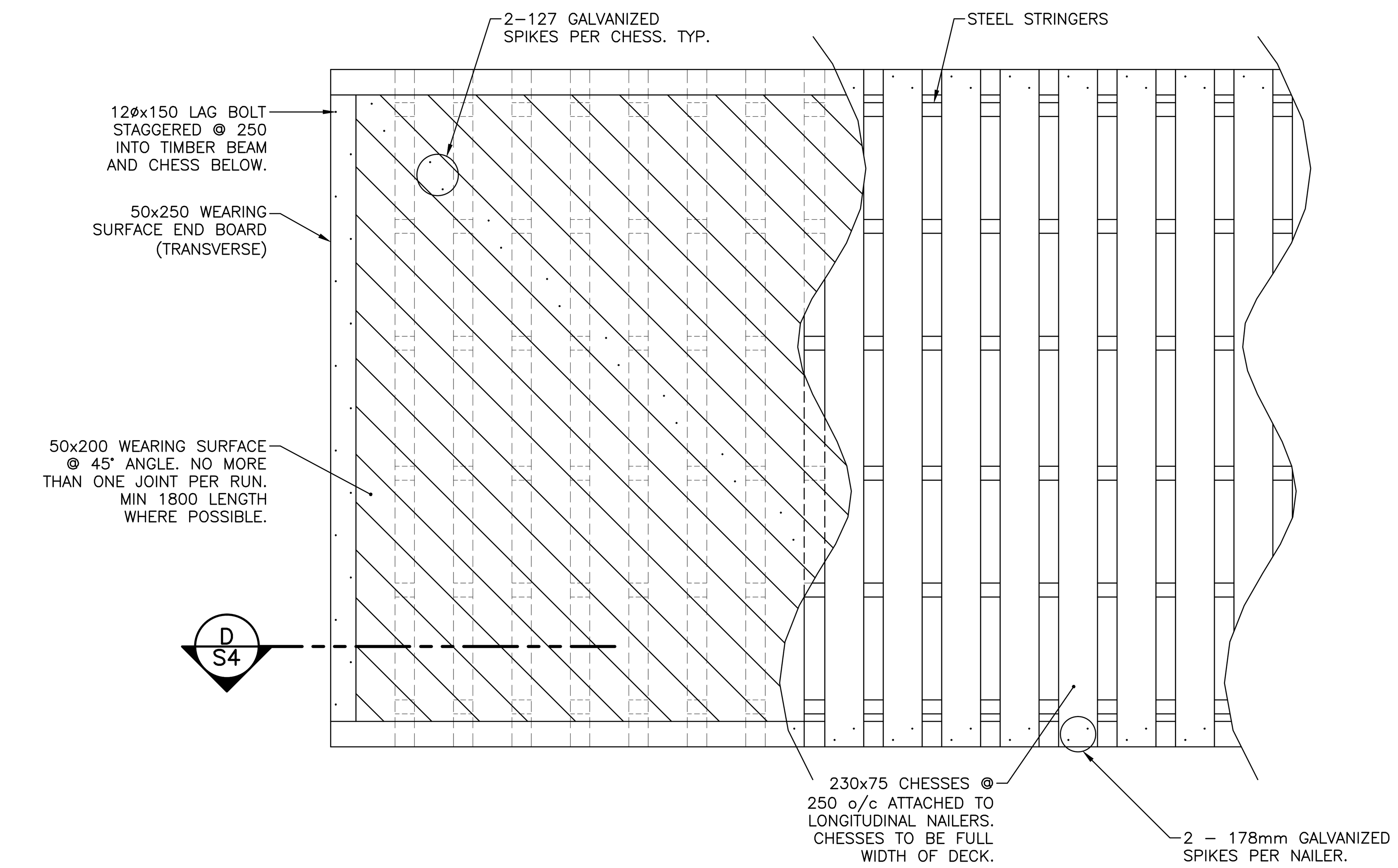
SECTION AT EXPANSION BEARING B/S4
SCALE : 1:10

SECTION AT FIXED BEARING A/S4
SCALE : 1:10

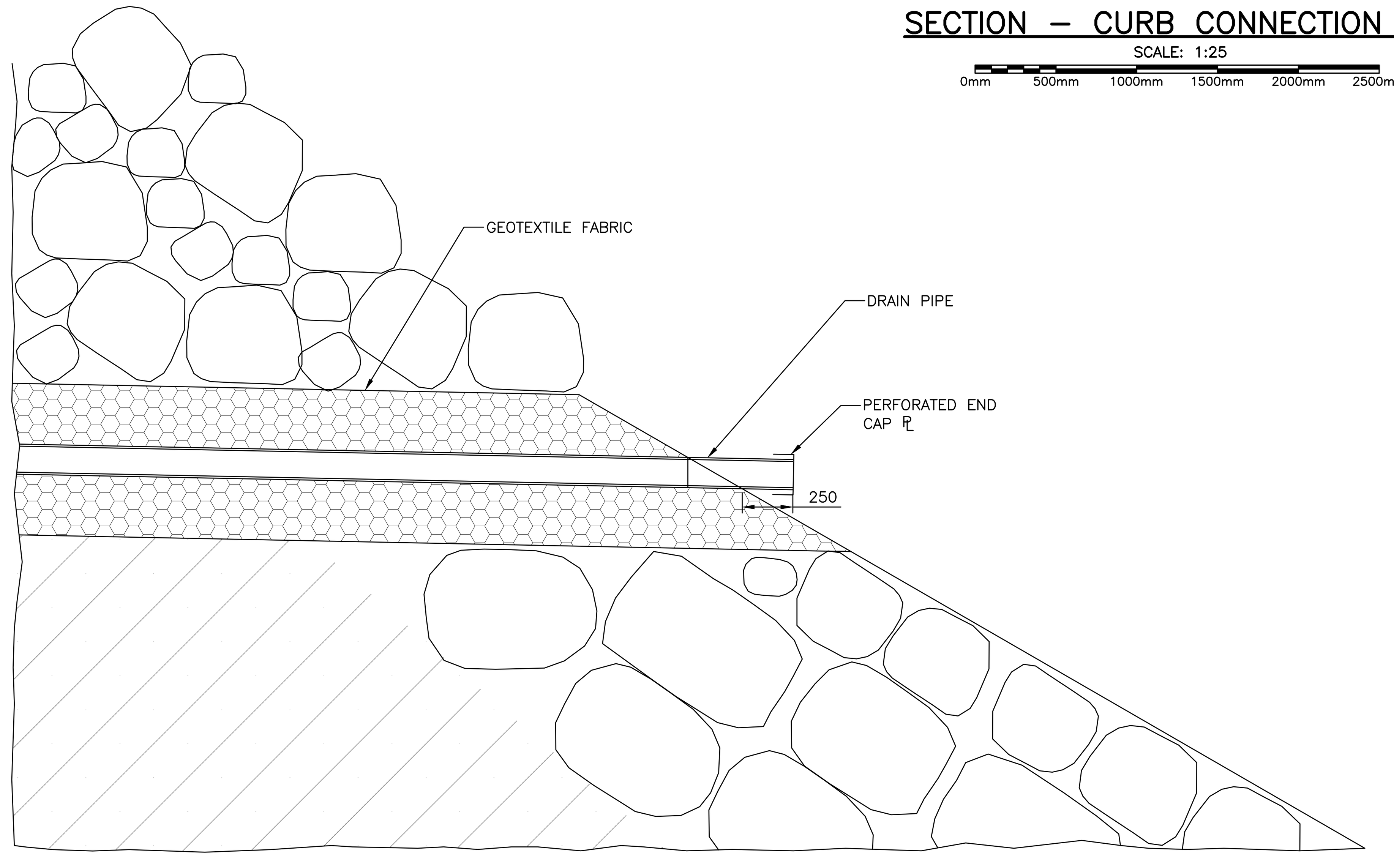
TIMBER NOTES:
1. ALL TIMBER RELATED WORK SHALL MEET THE LATEST REQUIREMENTS OF CSA 086 AND ITS ASSOCIATED REFERENCES, PUBLICATIONS AND RECOMMENDATIONS OF THE CANADIAN WOOD COUNCIL.
2. ALL TIMBER SHALL BE GRADED AS FOLLOWS UNLESS OTHERWISE NOTED:
   SAWN TIMBER: HEMLOCK NO.1
3. MINIMUM DRESSED WOOD DIMENSIONS ARE SHOWN IN MILLIMETERS.
4. ALL SPIKES AND NAILS TO MEET CSA STANDARD B111, GALVANIZED.
5. BOLTS, NUTS AND WASHERS SHALL BE 22mmø ASTM A307, GALVANIZED.
6. GALVANIZING OF HARDWARE TO CSA G164
7. ALL MEMBERS TO BE CUT TO THE PROPER LENGTH PRIOR TO PRESSURE TREATMENT.
8. MISCELLANEOUS FIELD CUTS (ENGINEER APPROVED) AND FIELD DRILLED HOLES TO BE TREATED WITH TWO APPLICATIONS OF CCA WOOD PRESERVATIVE.
9. ALL TIMBER TO BE PRESSURE TREATED AS PER CSA 080.
10. POSTS SHALL NOT INTERFERE WITH TRUSS.



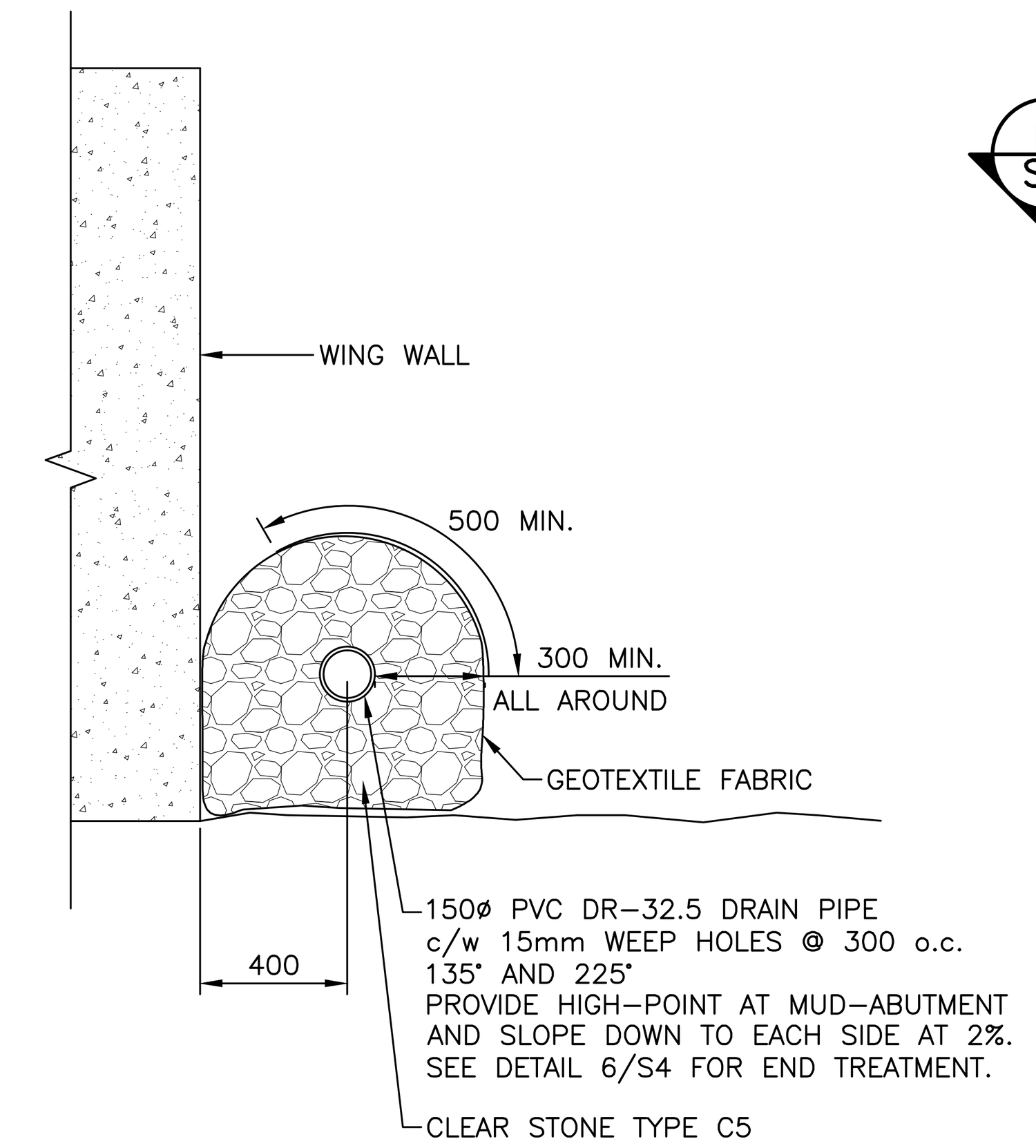
SECTION – CURB CONNECTION D/S4
SCALE: 1:25



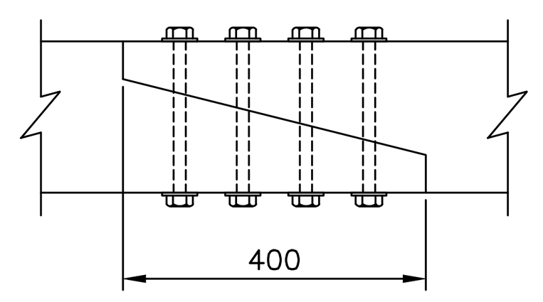
PLAN – CHESSES CONNECTION
SCALE: 1:25



DETAIL – DRAIN PIPE END CAP 6/S4
SCALE : 1:20



DETAIL – DRAIN PIPE 5/S2
SCALE : 1:20



DETAIL – WHEEL GUARD SPLICE DETAIL 7/S4
SCALE : 1:10

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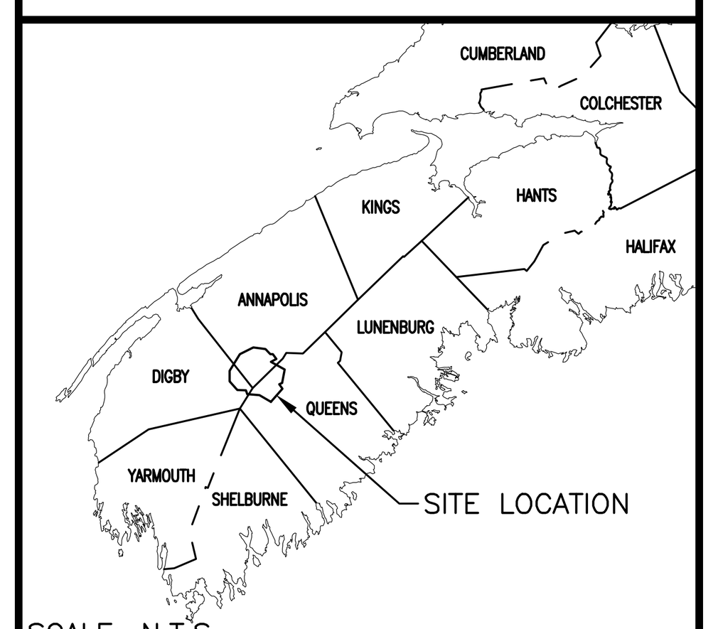

SCALE: N.T.S.

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C01	ISSUED FOR TENDER	MAY 13 2016
revisions		date

project / projet
MERSEY RIVER BRIDGE REPLACEMENT KEJIMKUJIK NATIONAL PARK, NOVA SCOTIA

drawing / dessin
BEARING & DRAIN DETAILS

designed / conçu: TDB
drawn / dessiné: TMB
approved / approuvé: NDL
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PWGSC Project Manager / Administrateur de projets TPSGC
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