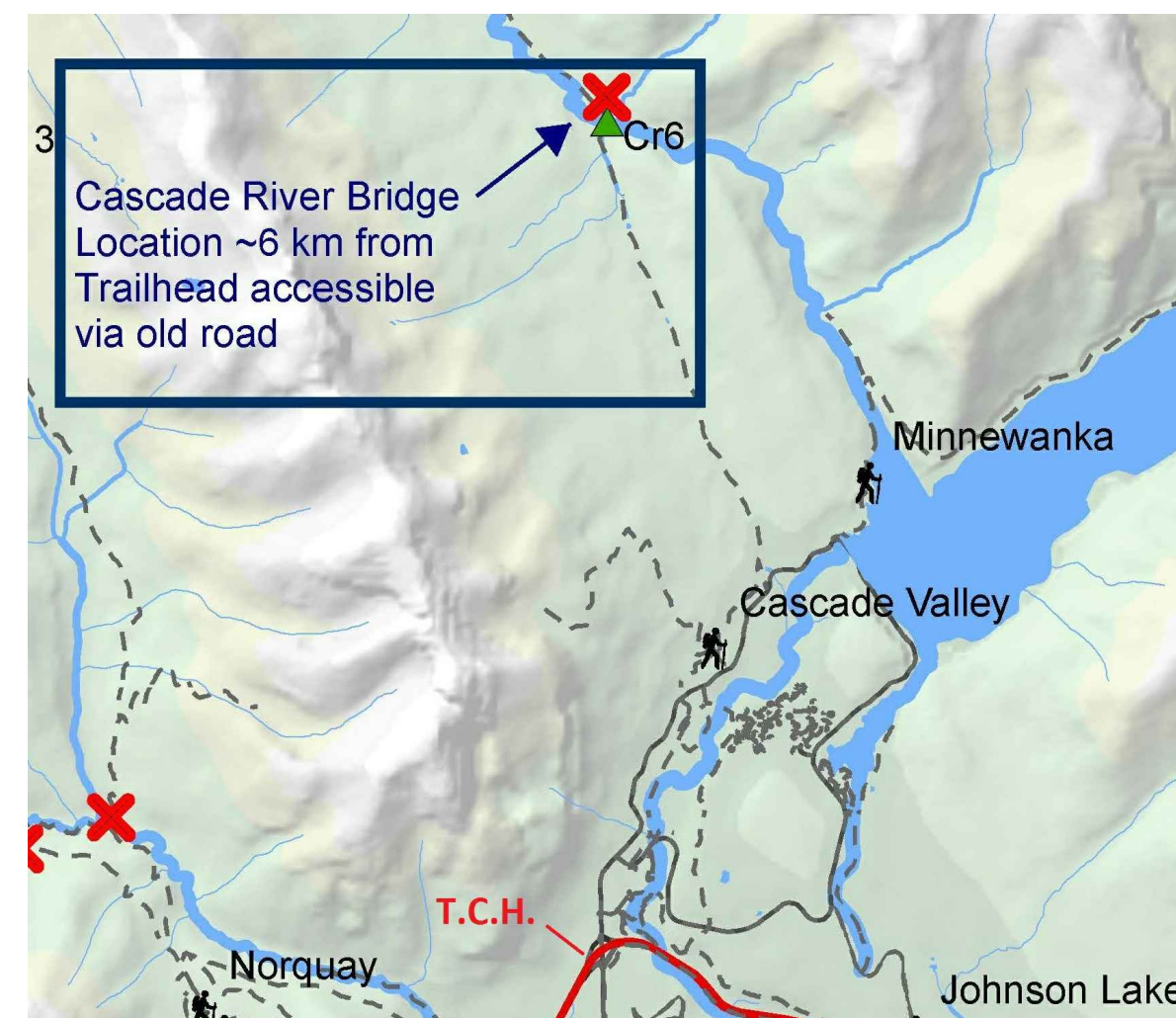


BANFF NATIONAL PARK, ALBERTA

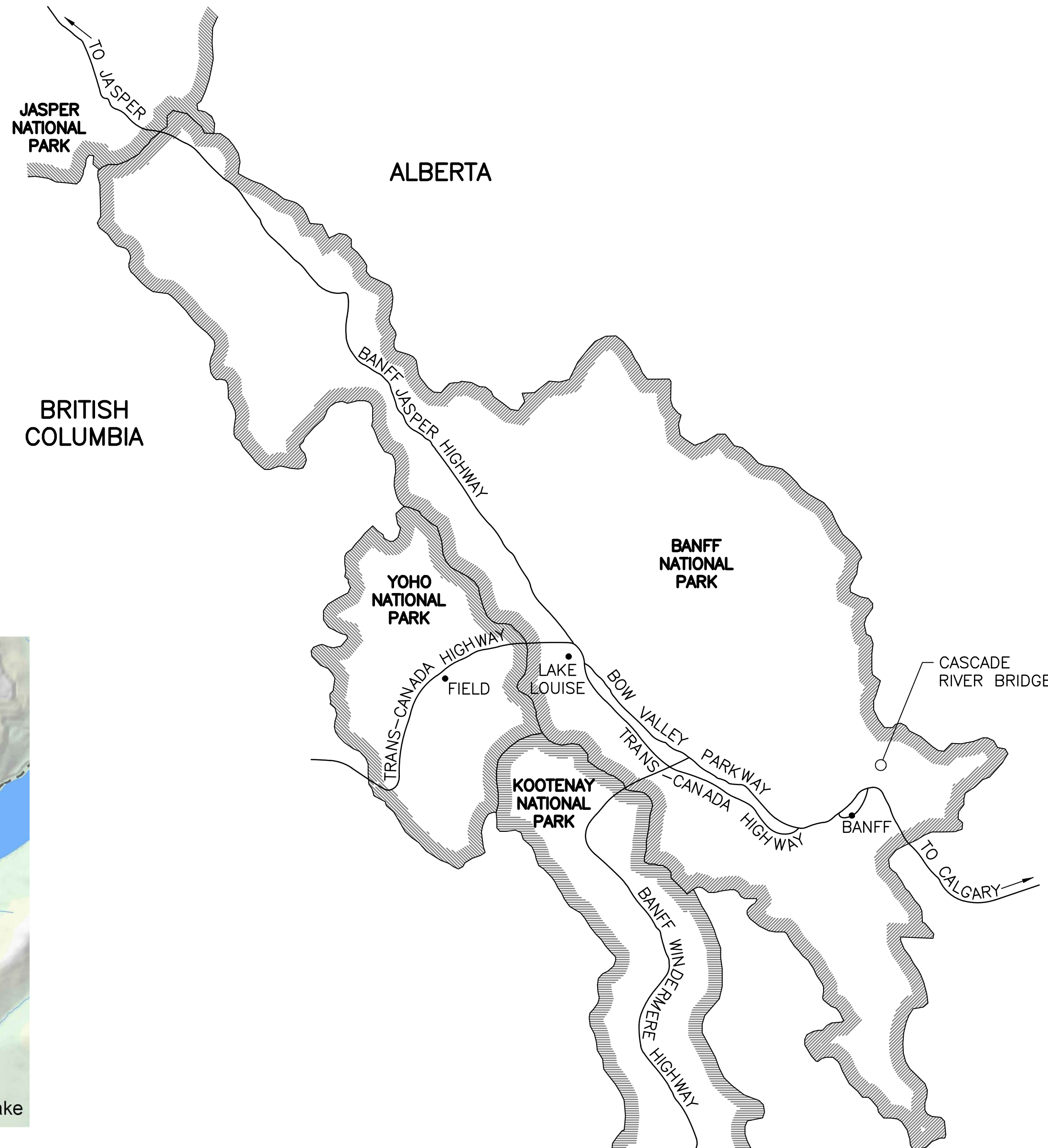
CASCADE RIVER BRIDGE REPLACEMENT

DRAWINGS:

- 5P421-15-0033-001 COVER SHEET, DRAWING LIST AND LOCATION MAP
- 5P421-15-0033-002 GENERAL ARRANGEMENT AND GENERAL NOTES
- 5P421-15-0033-003 ABUTMENT LAYOUT
- 5P421-15-0033-004 ABUTMENT REINFORCEMENT
- 5P421-15-0033-005 APPROACH RETAINING WALLS
- 5P421-15-0033-006 TRUSS LAYOUT
- 5P421-15-0033-007 TRUSS CONNECTIONS 1
- 5P421-15-0033-008 TRUSS CONNECTIONS 2
- 5P421-15-0033-009 BRIDGE RAILING DETAILS
- 5P421-15-0033-010 APPROACH RAILING



KEY MAP
N.T.S.



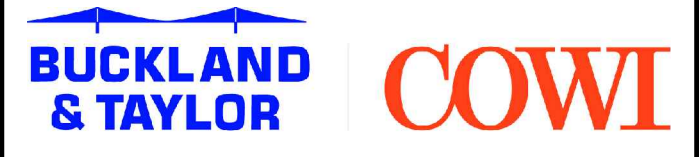
LOCATION MAP
N.T.S.

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DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
A	ISSUED FOR TENDER	14/07/09

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Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA

CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approuvé par
DPG

Designed by/Concept par
BRCN / CMK / DLB / FIGR

Drawn by/Dessiné par
JAET / KKC / BEXU
PWGSC Project Manager/Administrateur de Projets TPSGC

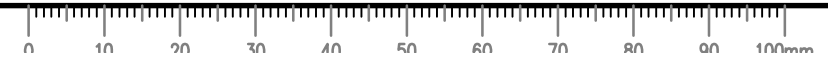
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Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

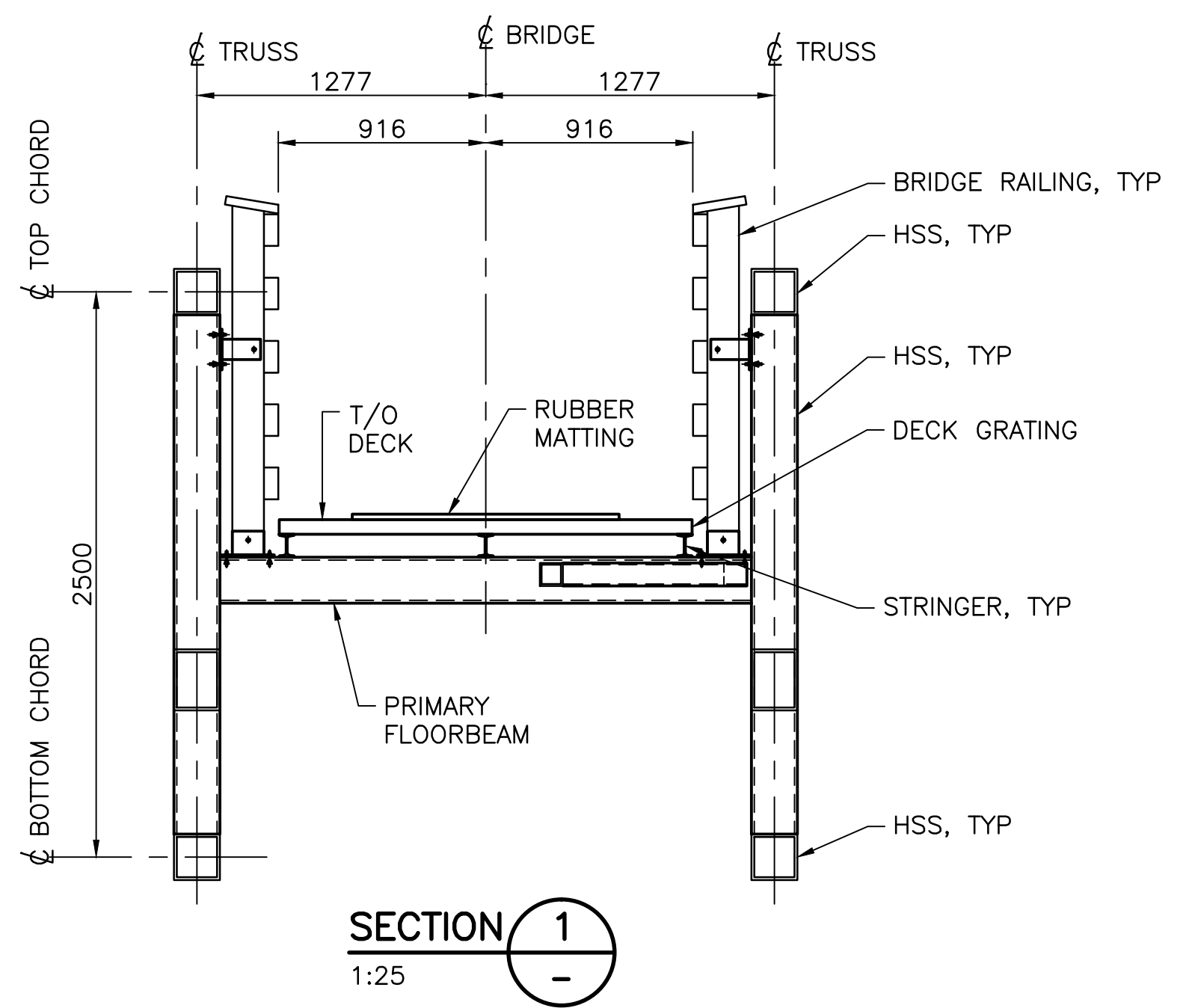
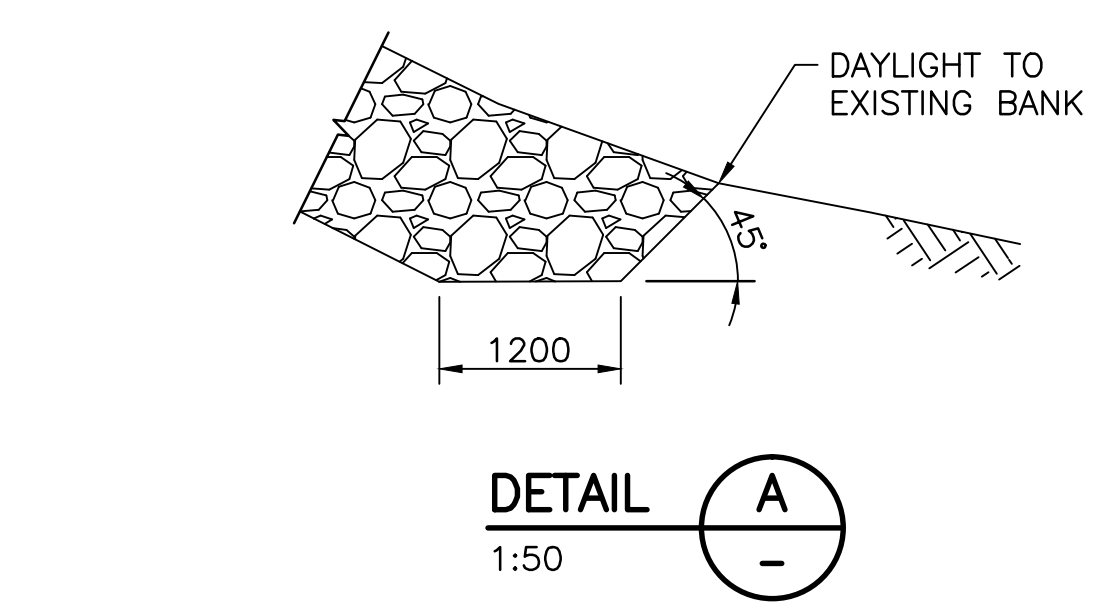
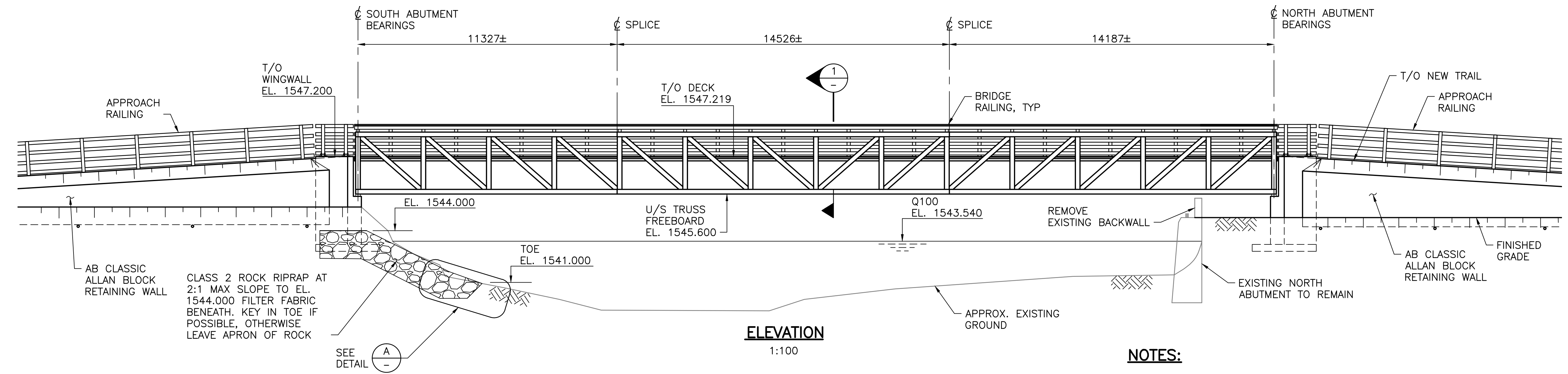
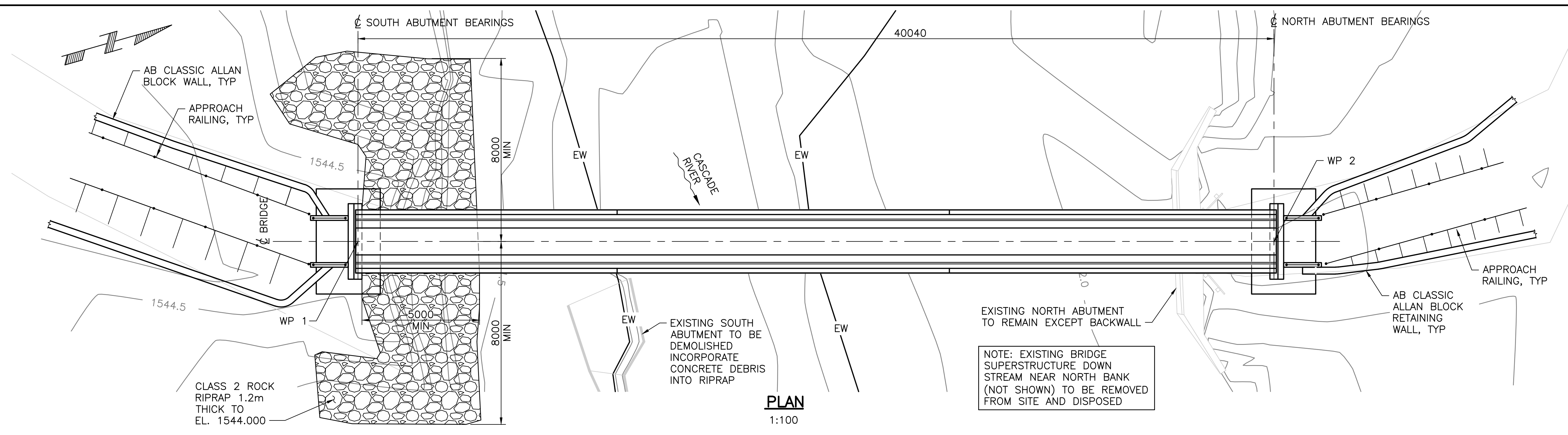
Drawing title/Titre du dessin

COVER SHEET, DRAWING LIST AND LOCATION MAP

Project No./No. du projet 5P421-15-0033	Sheet/Fauille 001 OF 010	Revision no./La Révision no. A
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NOTE: EXISTING BRIDGE SUPERSTRUCTURE DOWN STREAM NEAR NORTH BANK (NOT SHOWN) TO BE REMOVED FROM SITE AND DISPOSED

NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- DESIGN STANDARDS:
 - CAN/CSA-S6-06 CANADIAN HIGHWAY BRIDGE DESIGN CODE AND CAN/CSA-S157-05 STRENGTH DESIGN IN ALUMINUM.
 - PARKS CANADA DIRECTIVE FOR DESIGN, CONSTRUCTION, AND INSPECTION OF VEHICULAR AND PEDESTRIAN BRIDGES, JANUARY 2008: PEDESTRIAN BRIDGE CLASS A1.
- DESIGN LOADS
 - LIVE LOADS:
 - PEDESTRIAN LOADING: 3.67 kPa
 - EQUESTRIAN LOADING: 4.45 kN APPLIED ON A 0.1 m X 0.1 m AREA
 - VEHICLE LOADING: 318 kg SNOW MOBILE DISTRIBUTED OVER A 0.6 m X 1.5 m FOOTPRINT WITH A 126 kg TRACKSET ATTACHED
 - RAILING LOADING: UNIFORM LOAD OF 1.20 kN/m APPLIED LATERALLY AND VERTICALLY SIMULTANEOUSLY
 - SNOW AND RAIN LOADS:
 - SNOW LOADING: 3.6 kPa
 - RAIN LOADING: 0.1 kPa
 - WIND LOADS:
 - WIND LOADING, q50: 0.485 kPa
 - CONSTRUCTION LOADING OF TRUSS:
 - MINI-EXCAVATOR LOADING: 1720 kg EXCAVATOR DISTRIBUTED OVER A PAIR OF 1.244 m X 0.3 m TRACK FOOTPRINTS
 - POWER BUGGY LOADING: 671 kg POWER BUGGY WITH A MAXIMUM LOAD OF 1455 kg DISTRIBUTED OVER A PAIR OF DUAL 145 mm WIDE TIRES

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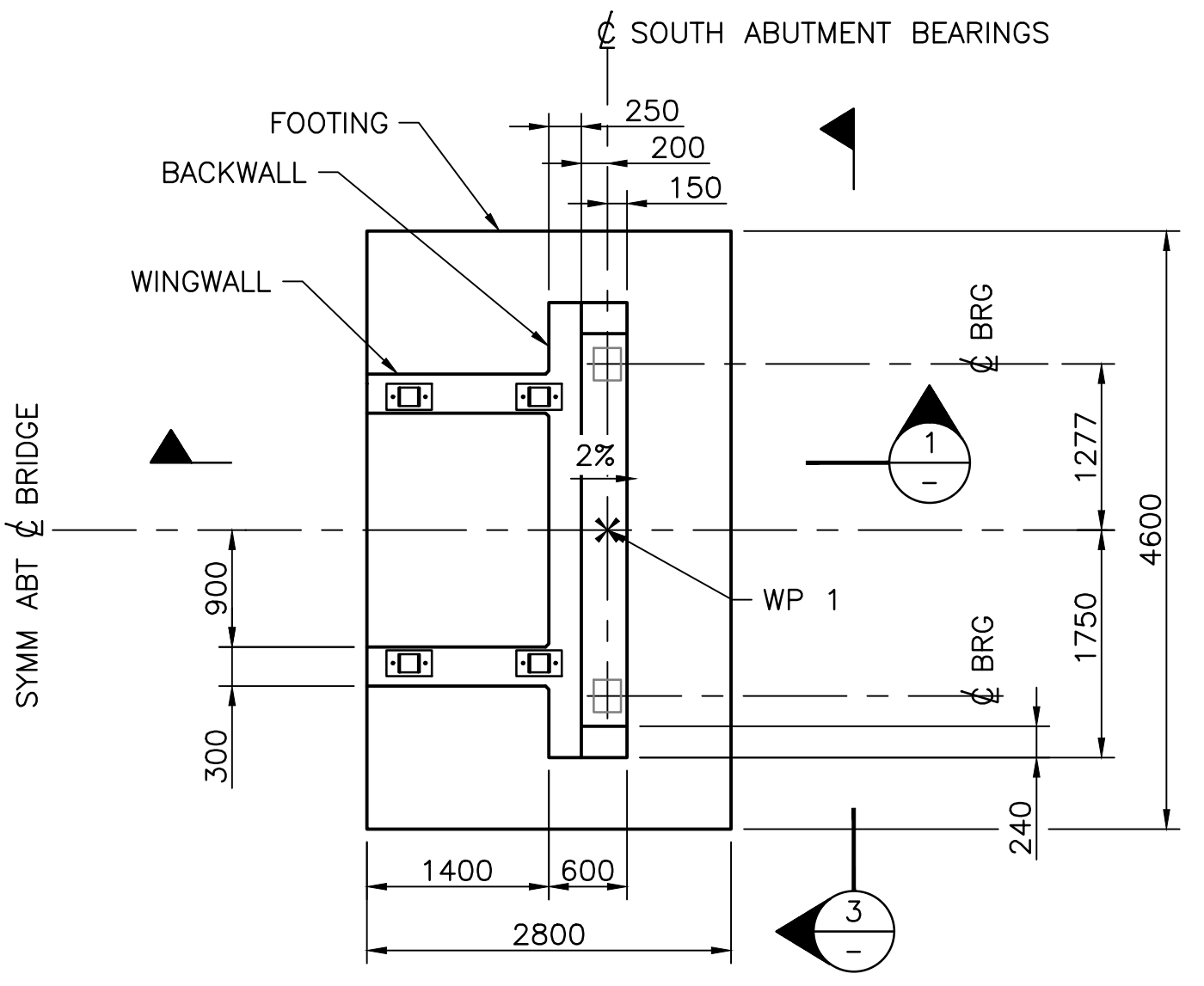
Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

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DPG
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BRCN / CMK
Drawn by/Dessine par
JAET / BEKU
PWGSC Project Manager/Administrateur de Projets TPSCG
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
GENERAL ARRANGEMENT AND GENERAL NOTES

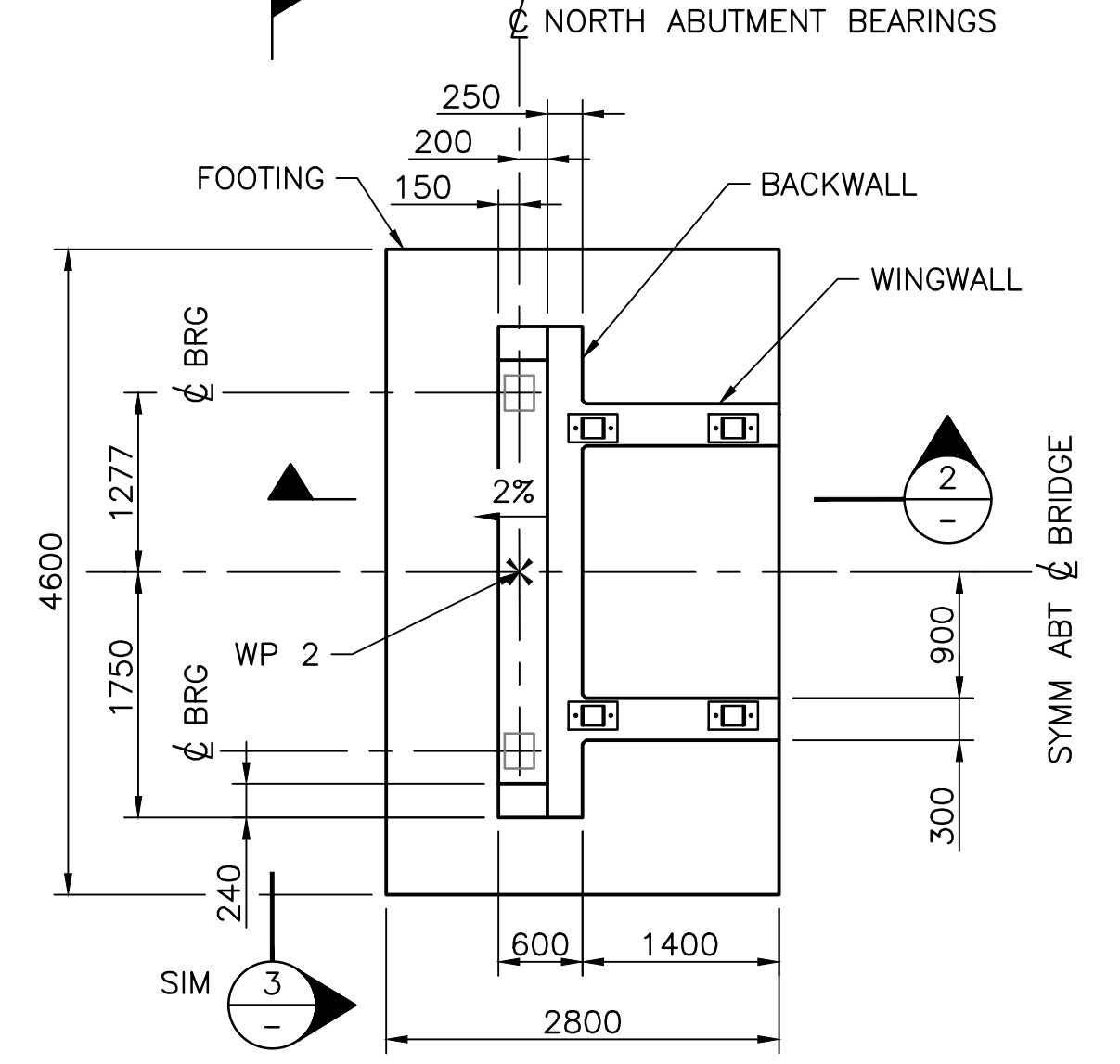
Project No./No. du projet 5P421-15-0033	Sheet/Fauille 002 OF 010	Revision no./La Révision no. A
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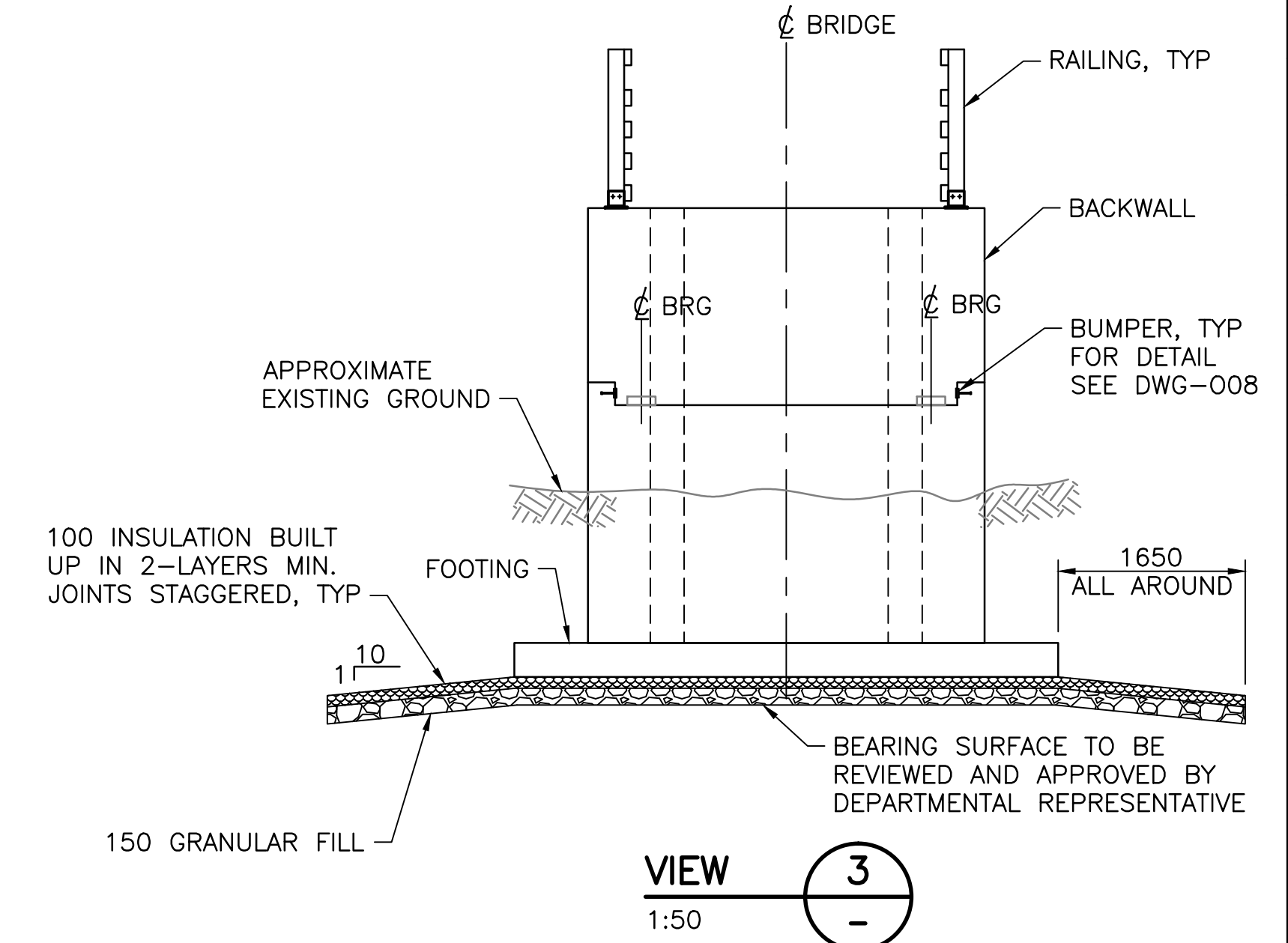


SOUTH ABUTMENT - PLAN
1:50

WORKPOINTS (m)		
	N	E
WP 1	5682787.273	602264.315
WP 2	5682825.762	602275.351



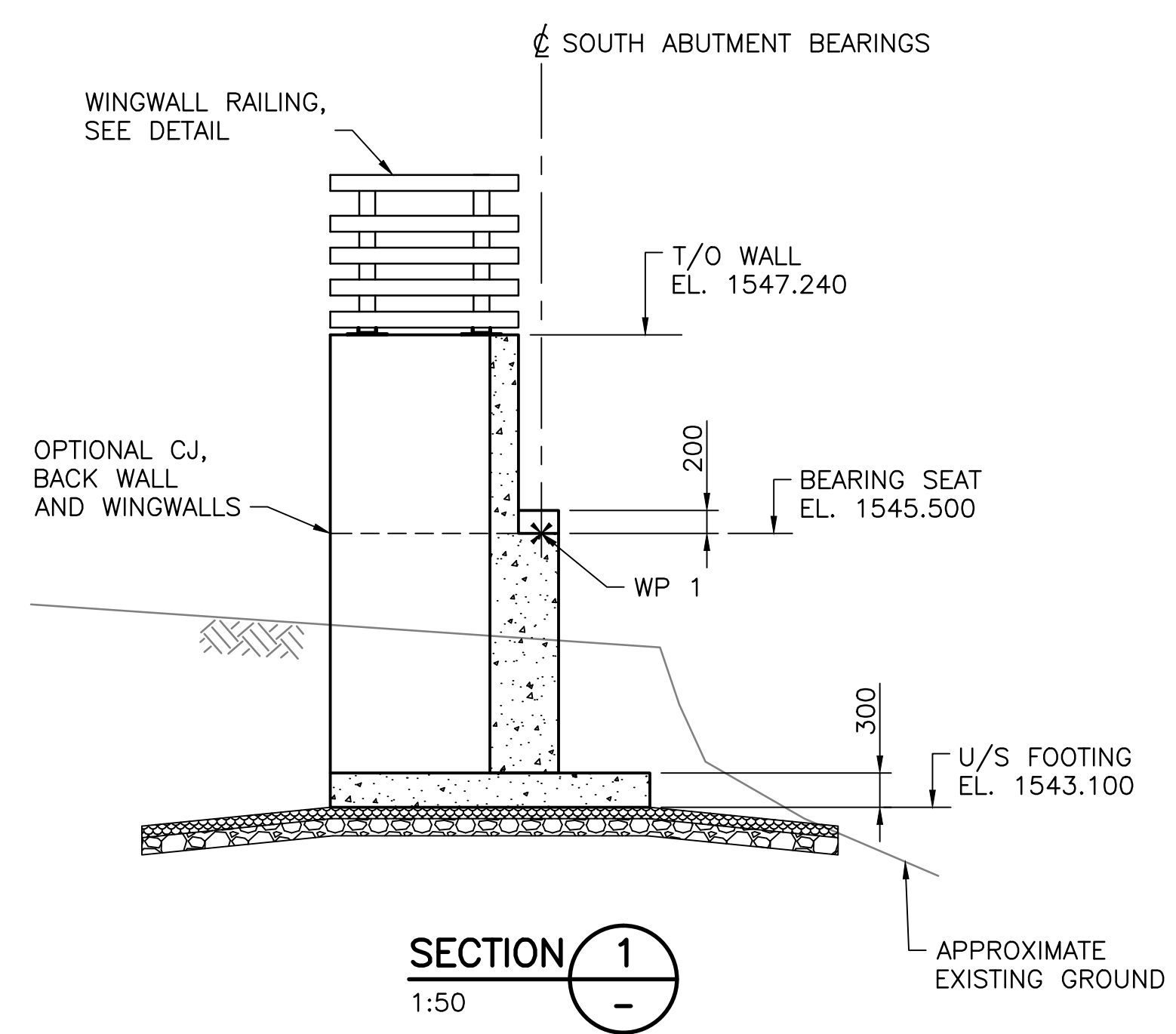
NORTH ABUTMENT - PLAN
1:50



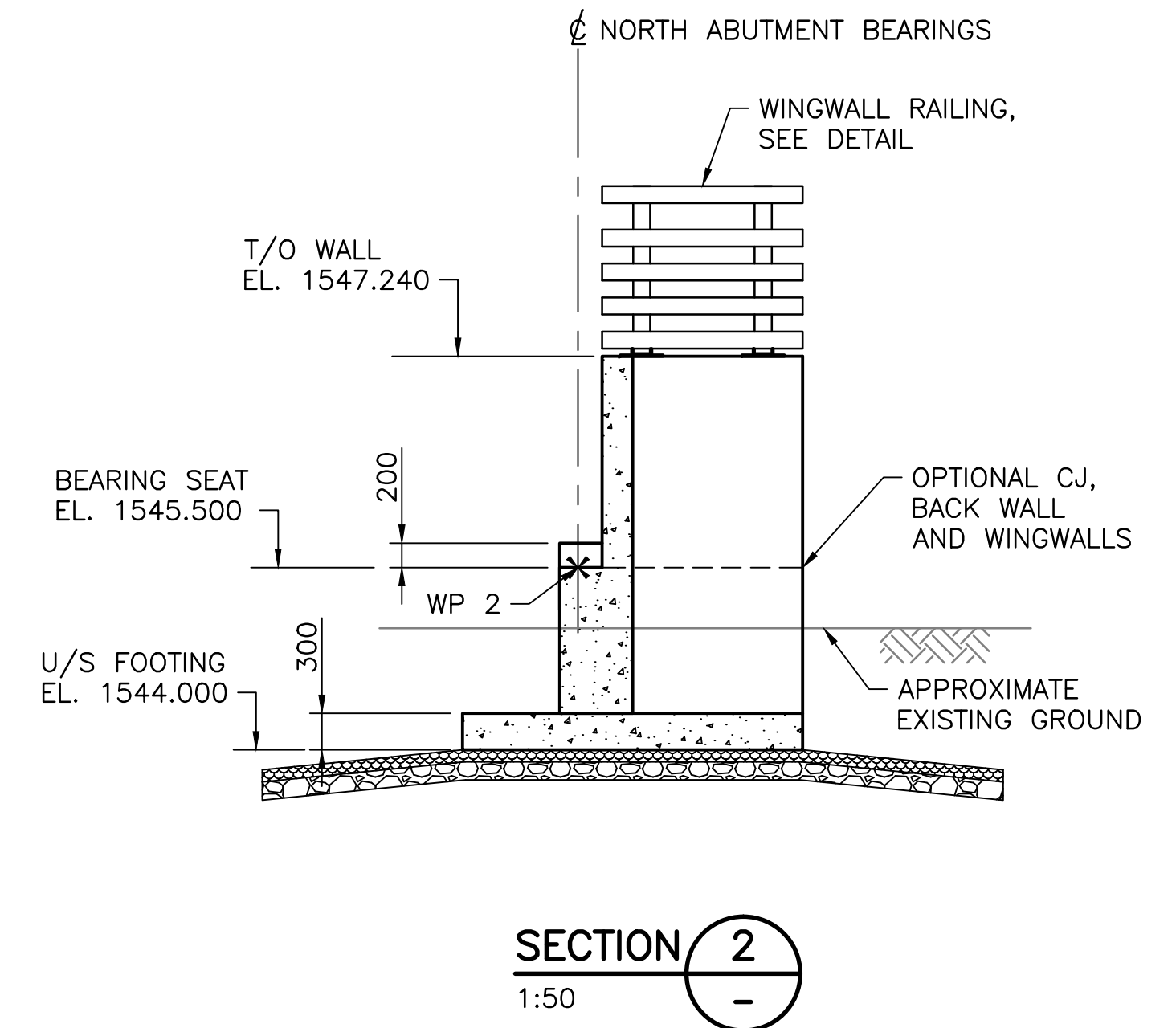
VIEW 3
1:50

NOTES:

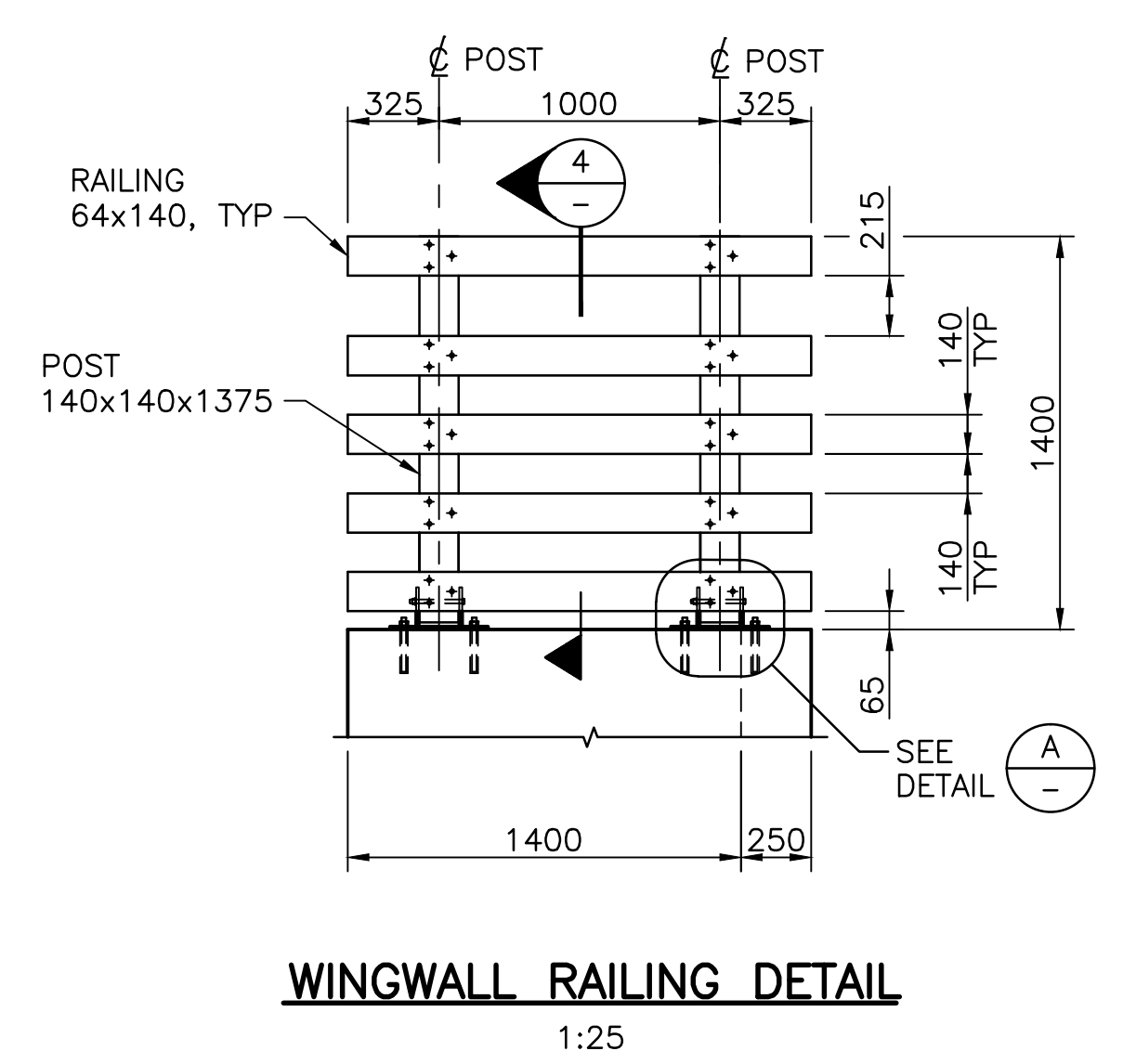
- MATERIALS**
 - ALL CONCRETE PRODUCTS SHALL BE CLASS S-2 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS.
 - CONCRETE CONSTRUCTION AND MATERIALS TO CONFORM TO CSA STANDARDS A23.1 AND A23.3
 - GRANULAR BACKFILL AND INFILL FOR ABUTMENTS AND APPROACHES MAY BE OBTAINED FROM IDENTIFIED BORROW SITES, COMPACTED TO 95% OF STANDARD PROCTOR DENSITY. REFER TO REFERENCE DOCUMENTS.
 - INSULATION SHALL BE FOAMULAR 600 EXTRUDED POLYSTYRENE RIGID FOAM INSULATION MIN 50 THICK.
 - RAILS AND POSTS TO CONFORM TO ASTM A53 GRADE 240 MPa GALVANIZED PIPE.
- CONSTRUCTION**
 - EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 20mm UNLESS NOTED OTHERWISE.
 - TO ACCOMMODATE TRUSS SPLICE JOINT CONNECTION, CONSTRUCTION JOINT WITH REINFORCEMENT MECHANICALLY COUPLED MAY BE REQUIRED AT ONE ABUTMENT ONLY. BACKWALL AND UPPER PORTIONS OF WINGWALLS TO BE CONSTRUCTED FOLLOWING TRUSS ERECTION.
- CONCRETE FINISH:**
 - ABUTMENTS WALLS, PIER CAP CLASS 2.
 - ABUTMENT BEARING SEATS TROWELED FINISH 2.
- DETAILED TOPOGRAPHIC SURVEY TO BE COMPLETED AND SUBMITTED PRIOR TO CONSTRUCTION FOR THE PURPOSE OF CONFIRMING EXCAVATIONS AND RETAINING WALL ALIGNMENT AND ELEVATIONS.**
- COUPLING OF REINFORCEMENT PERMISSIBLE AT CONSTRUCTION JOINTS AS APPROVED BY DEPARTMENTAL REPRESENTATIVE.**



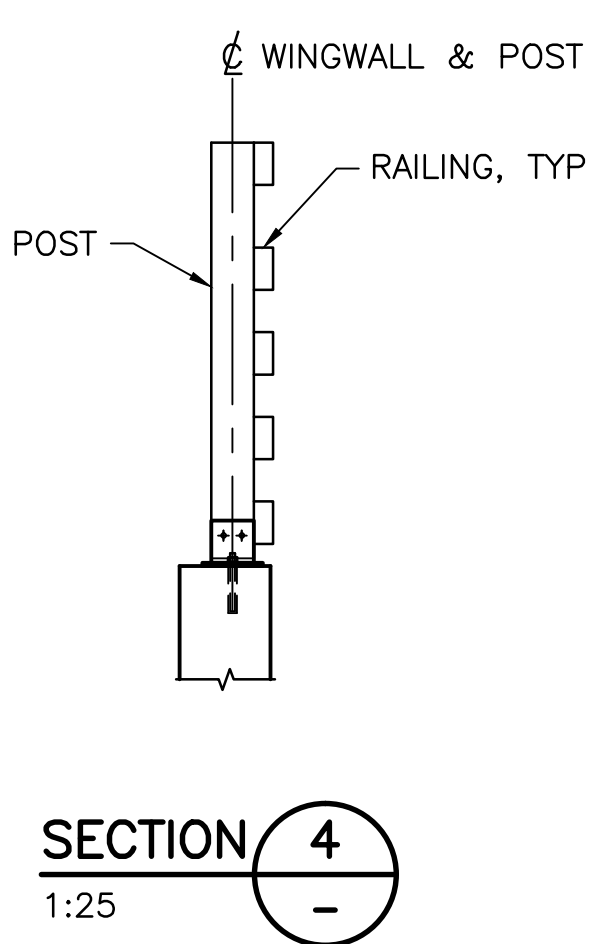
SECTION 1
1:50



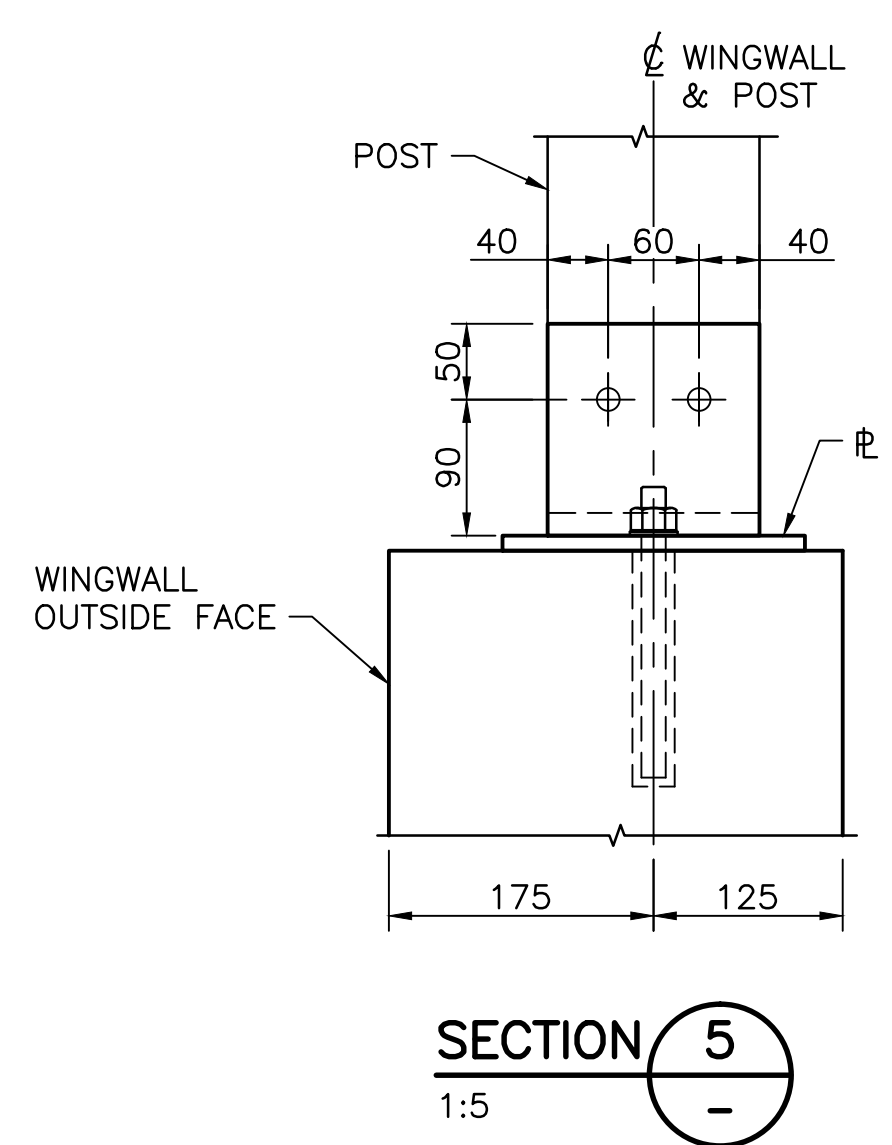
SECTION 2
1:50



WINGWALL RAILING DETAIL
1:25

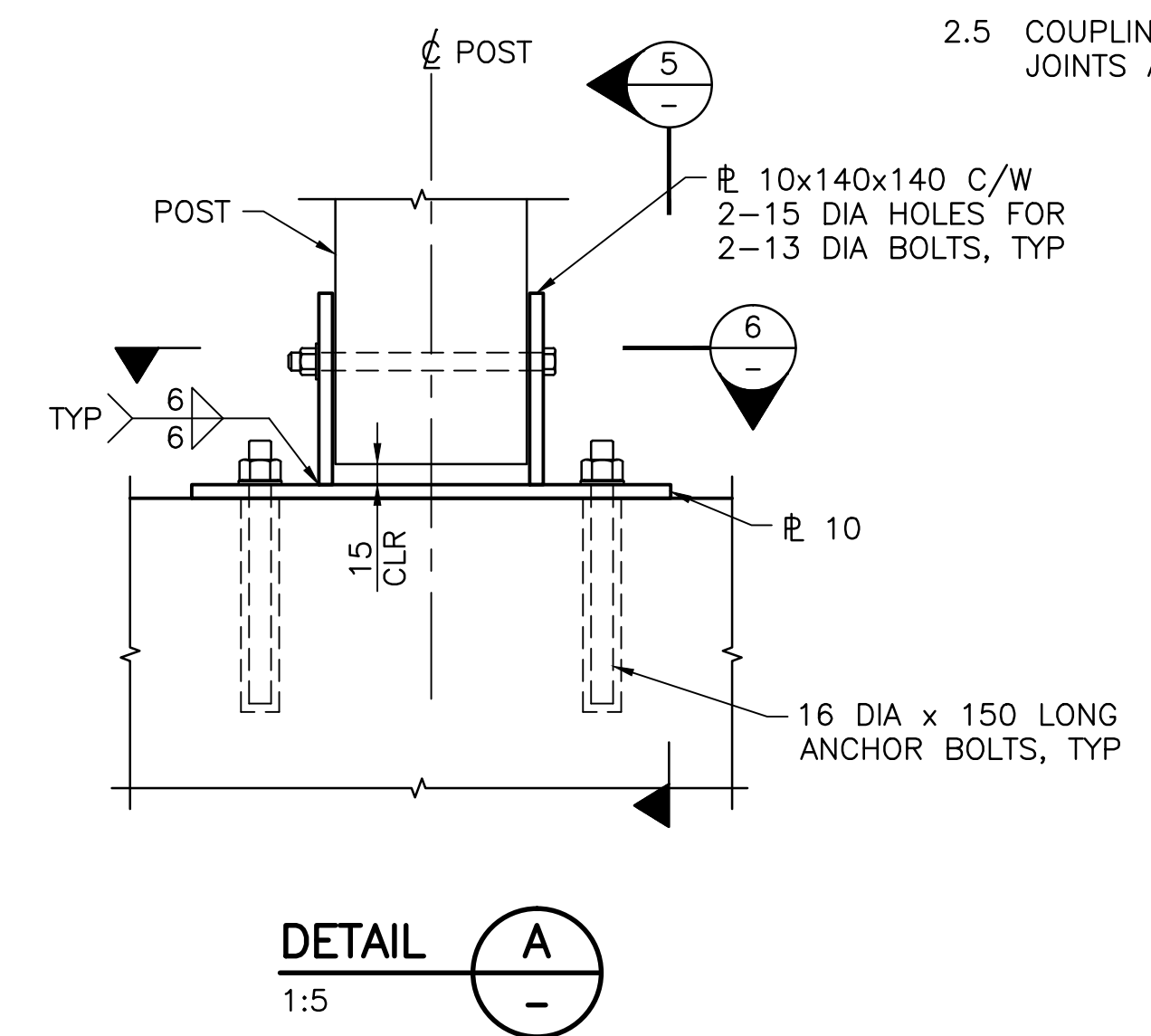


SECTION 4
1:25

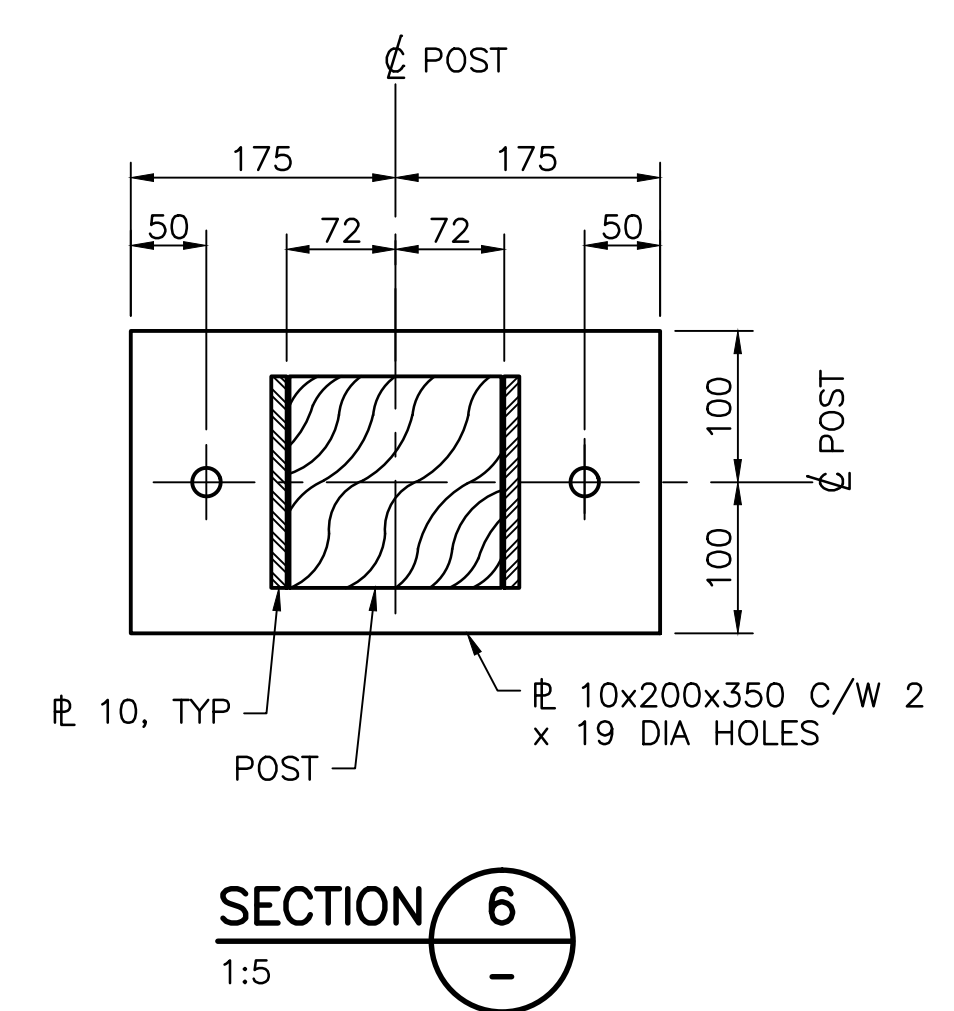


SECTION 5
1:5

(RAILING NOT SHOWN FOR CLARITY)



DETAIL A
1:5

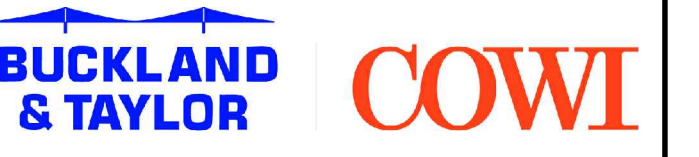


SECTION 6
1:5

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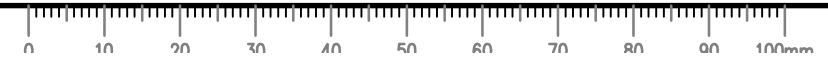


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CASCADE RIVER BRIDGE REPLACEMENT

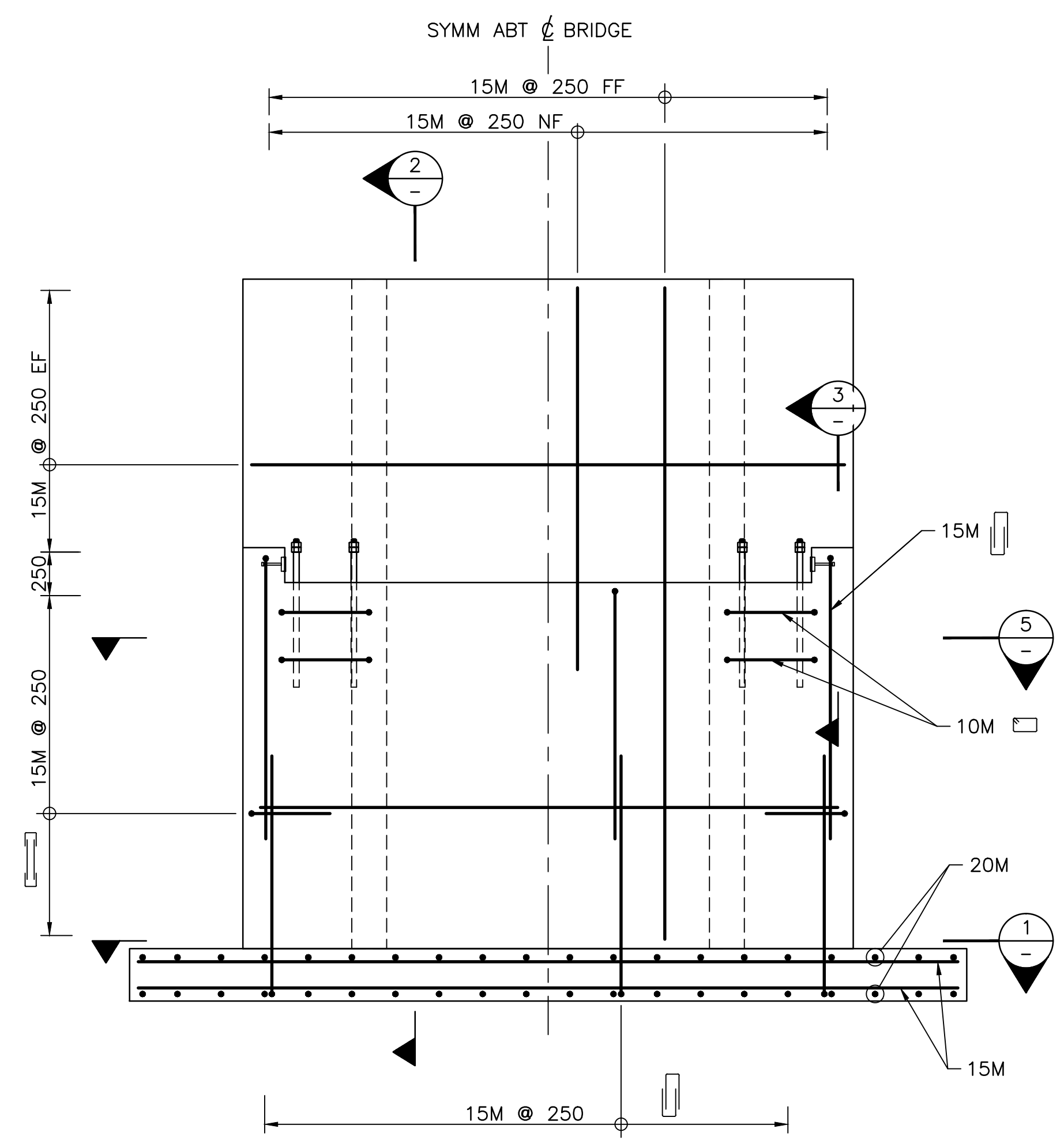
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DPG
Designed by/Concept par
BCRN / FIGR
Drawn by/Dessiné par
JAET / KKC
PWGSC Project Manager/Administrateur de Projets TPSGC
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client
Drawing title/Titre du dessin
ABUTMENT LAYOUT

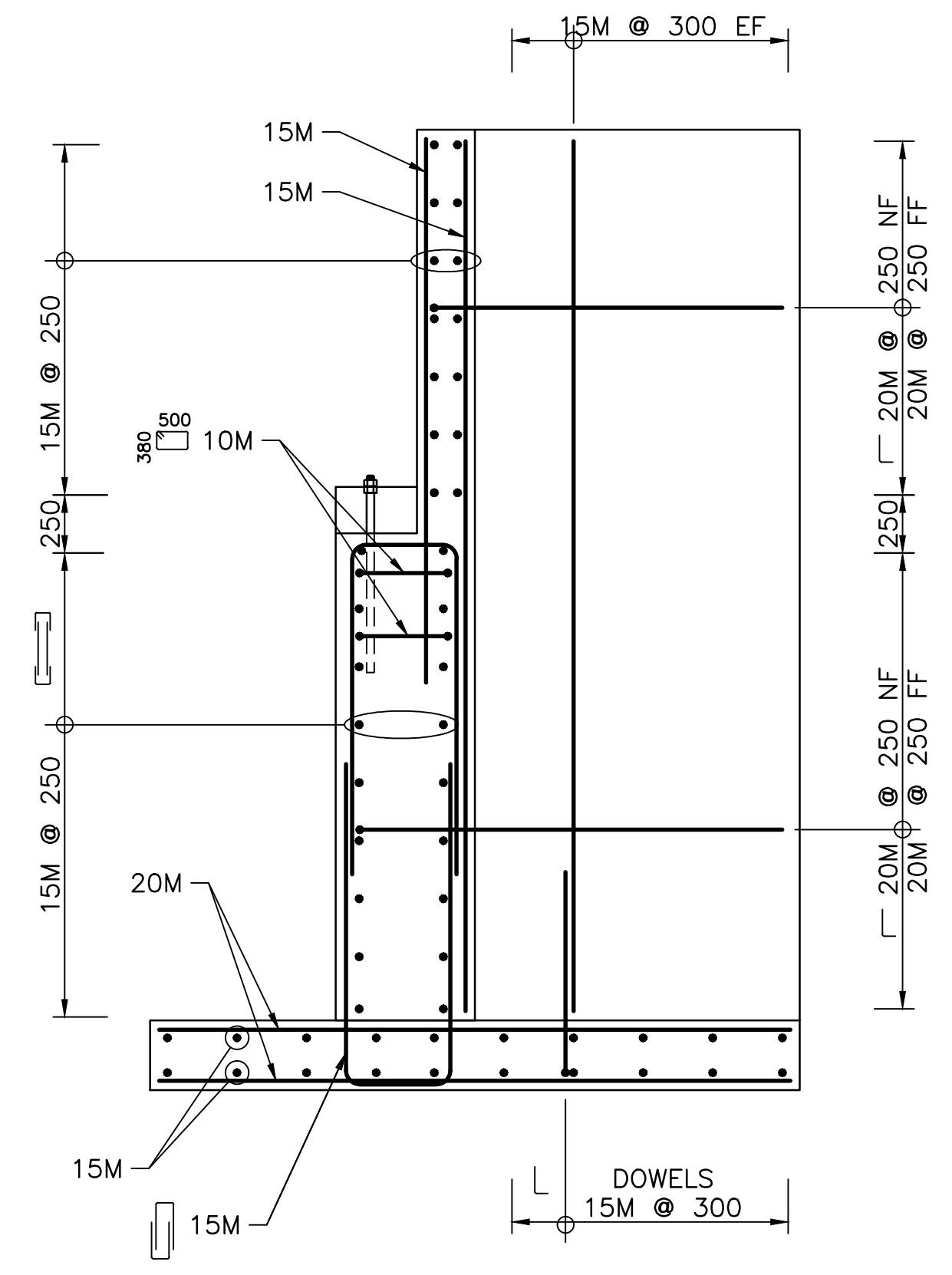
Project No./No. du projet 5P421-15-0033	Sheet/Fauille 003 OF 010	Revision no./Le Révision no. A
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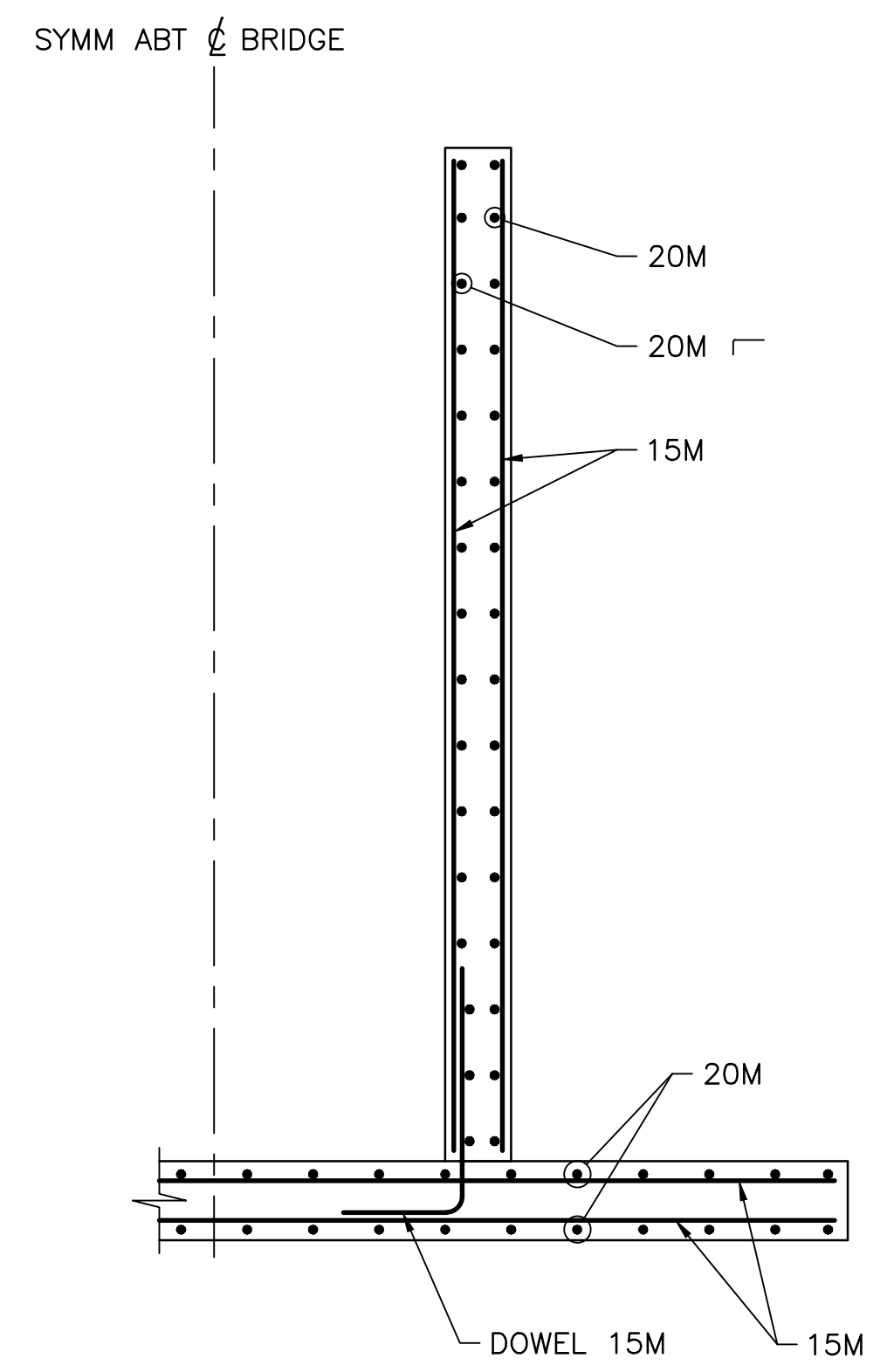
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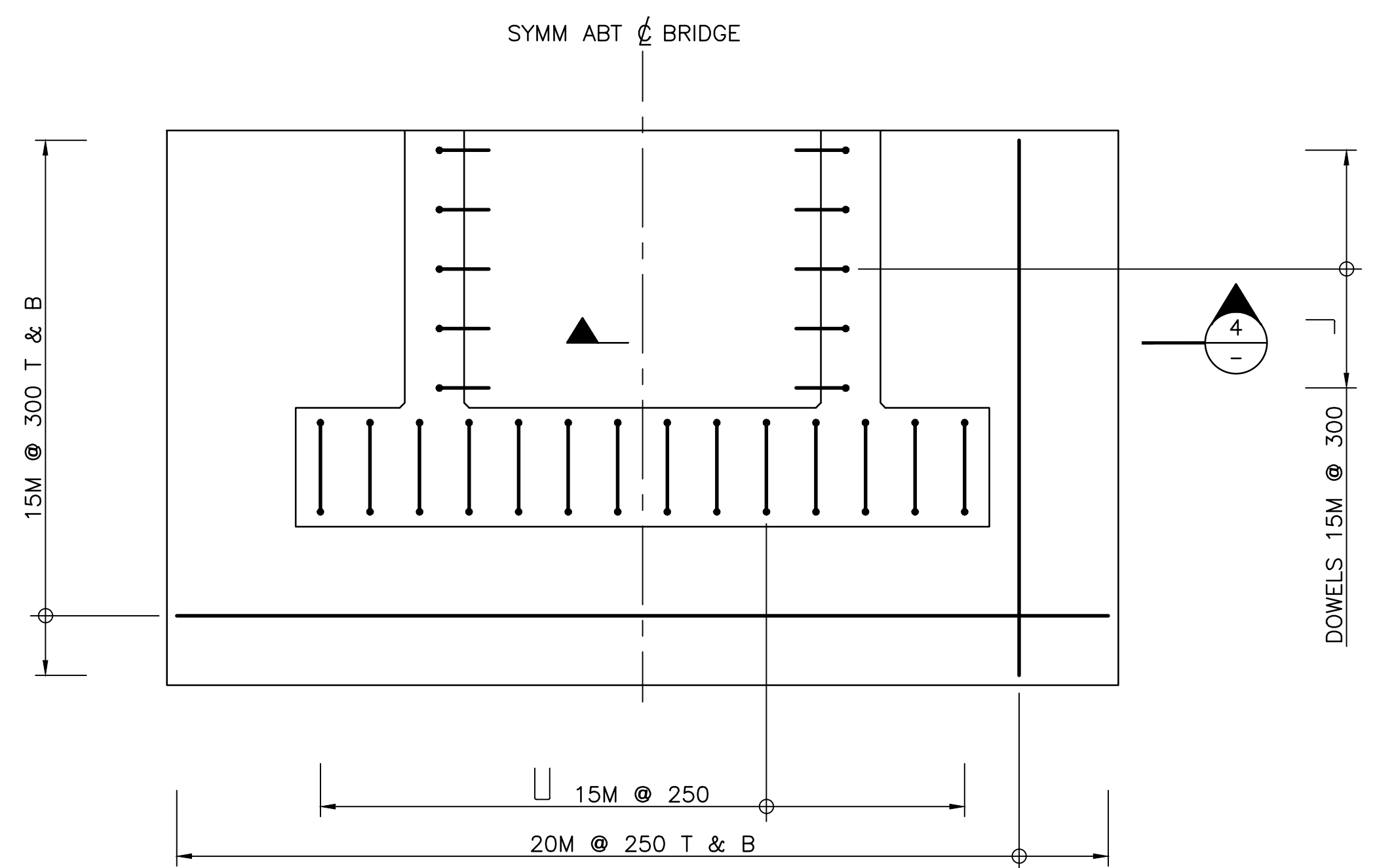
TYPICAL ABUTMENT REINFORCEMENT – ELEVATION
1:25



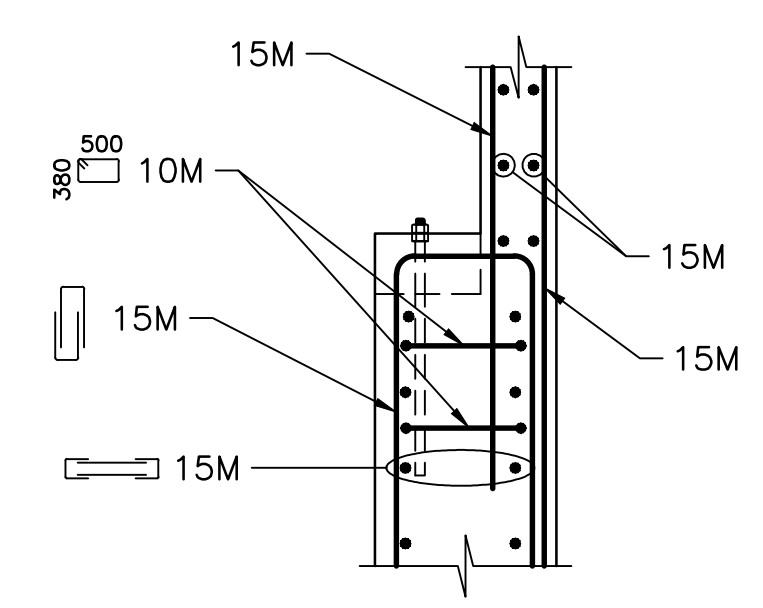
SECTION 2
1:25



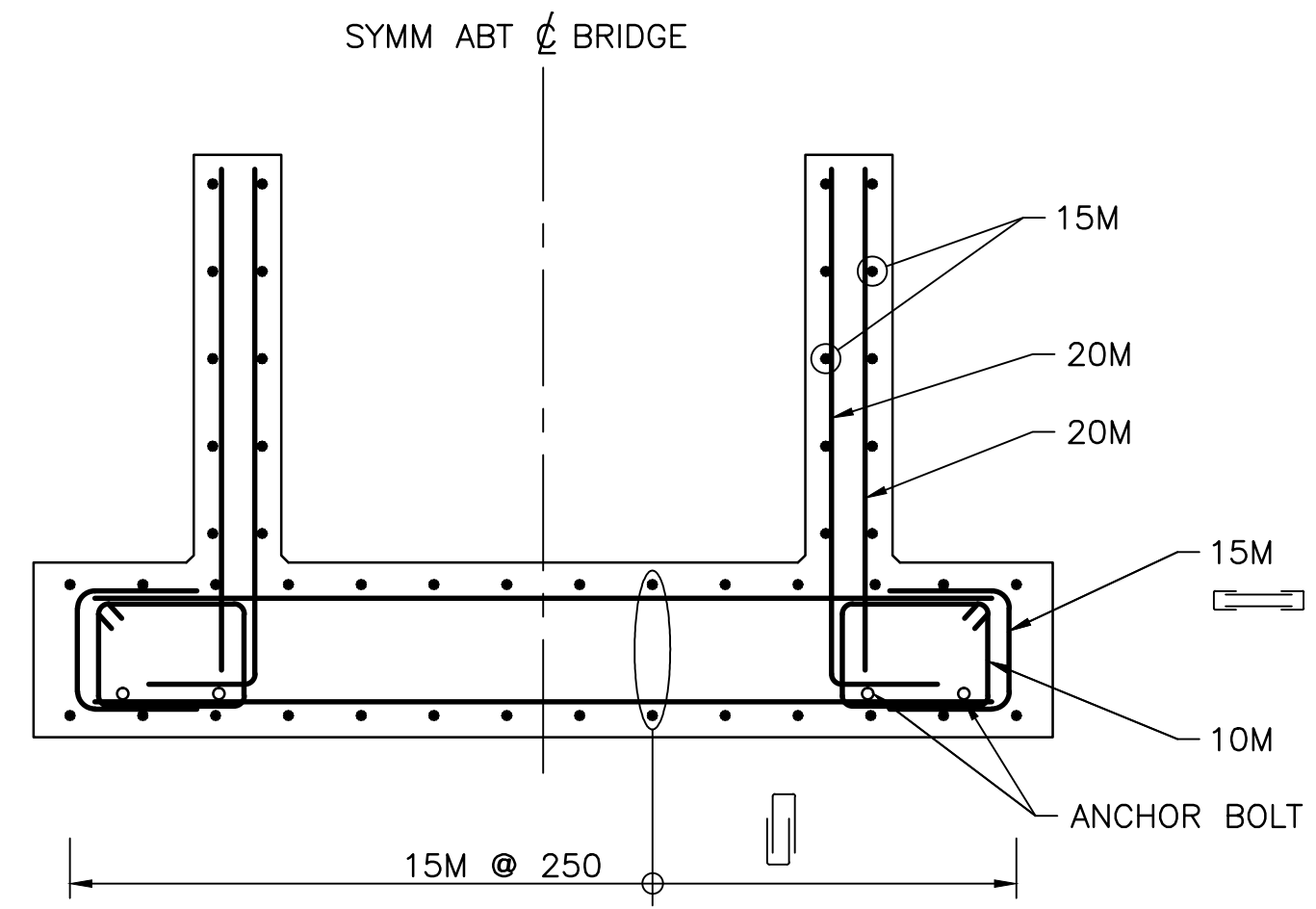
SECTION 4
1:25



SECTION 1
1:25



SECTION 3
1:25



SECTION 5
1:25

NOTES:

1. REINFORCING STEEL SHALL CONFORM TO CSA G30.18 GRADE 400W.
2. CONCRETE COVER: CLEAR COVER TO REINFORCING STEEL SHALL BE 75 mm UNLESS NOTED OTHERWISE.
3. REINFORCING LAP SPLICES SHALL BE AS A MINIMUM: 15M – 510 mm

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BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

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DPG

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Drawn by/Dessiné par
JAET / KKC

PWGSC Project Manager/Administrateur de Projets TPSGC

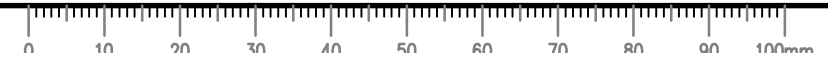
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Client/client

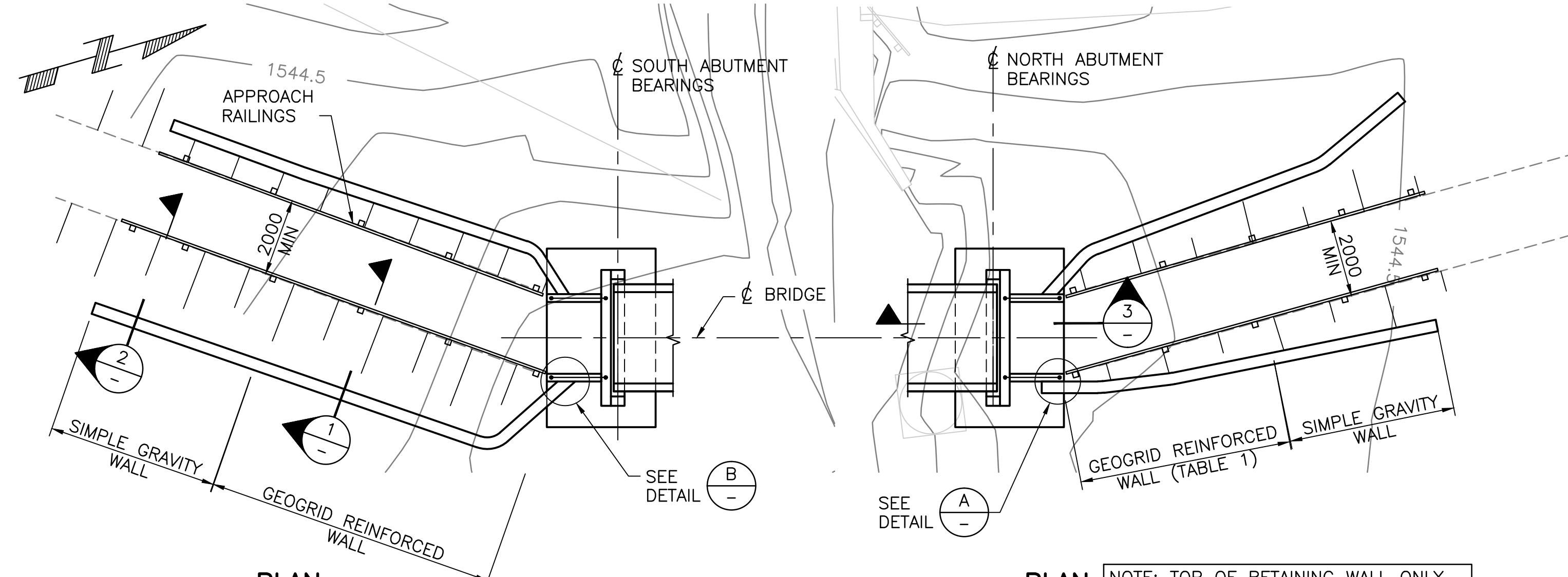
Drawing title/Titre du dessin

ABUTMENT REINFORCEMENT

Project No./No. du projet 5P421-15-0033	Sheet/Fauille 004 OF 010	Revision no./ La Révision no. A
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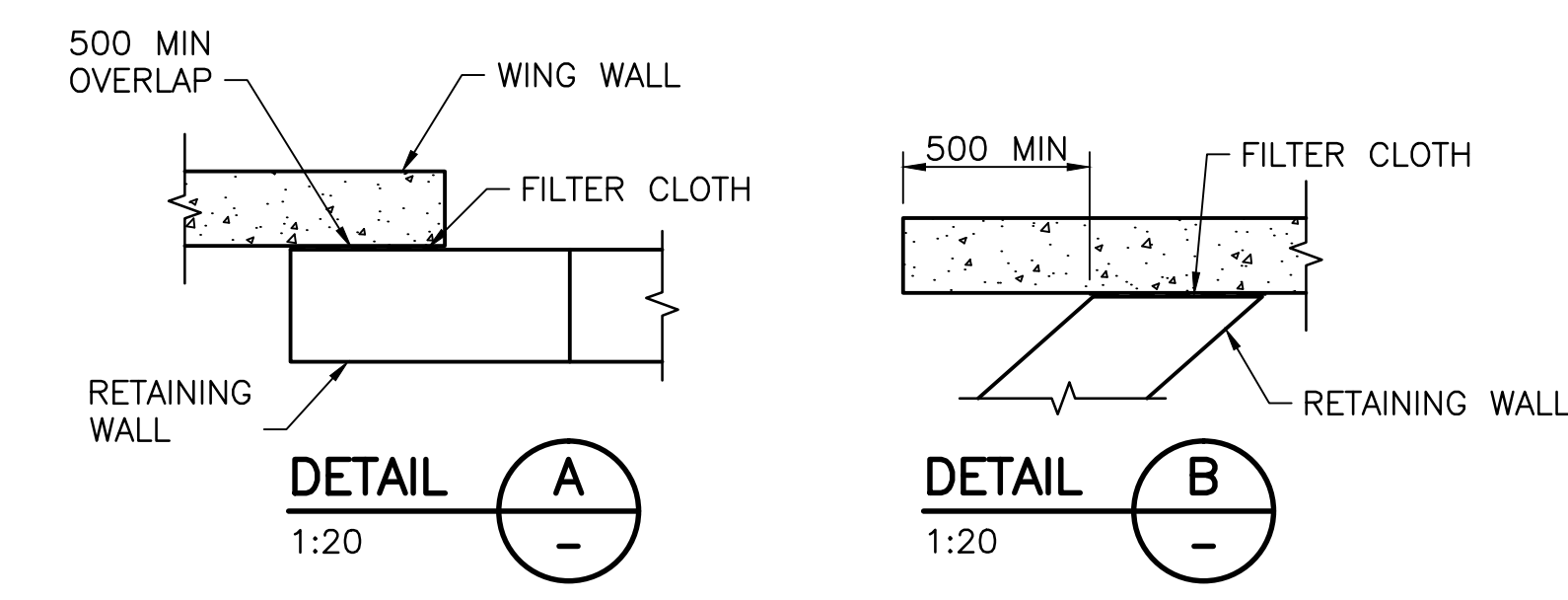
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PLAN
1:100

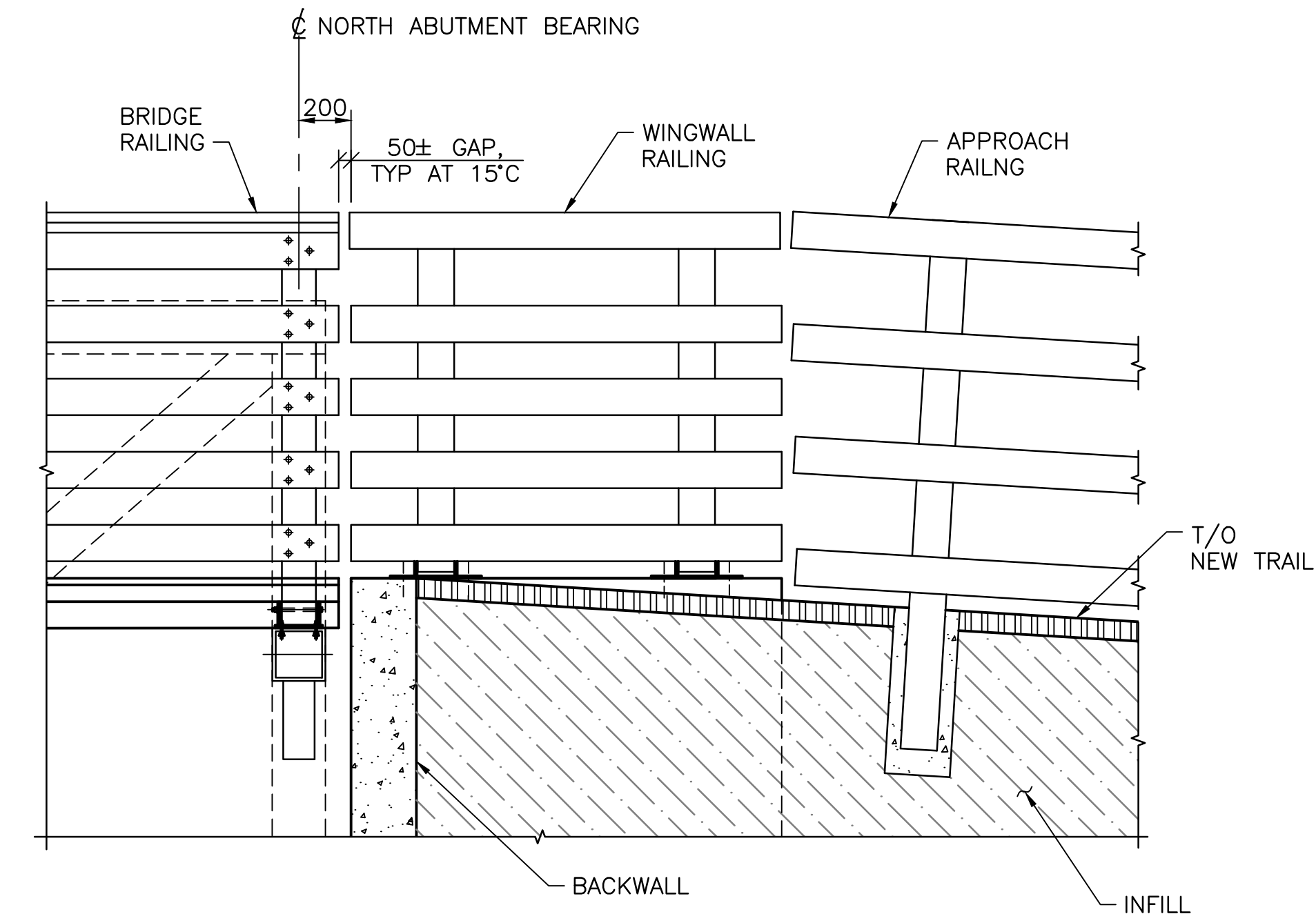
PLAN
1:100

NOTE: TOP OF RETAINING WALL ONLY SHOWN FOR CLARITY. EXACT ALIGNMENT TO BE CONFIRMED WITH SURVEY.

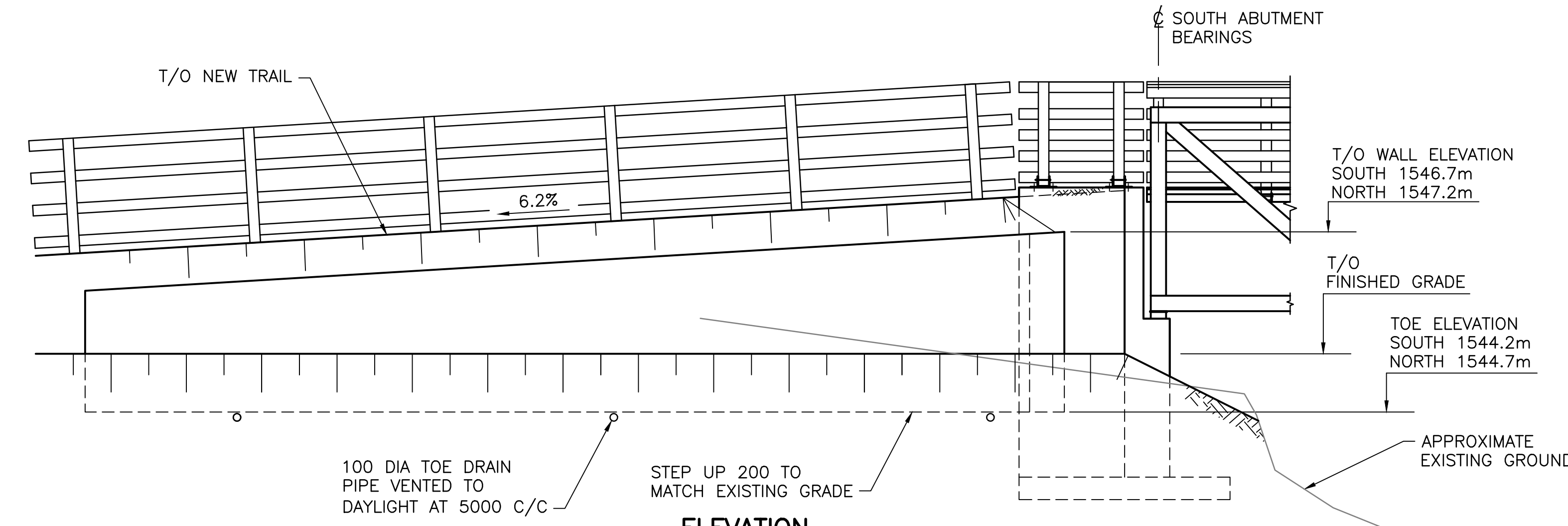


DETAIL A
1:20

DETAIL B
1:20



SECTION 3
1:20



ELEVATION
1:50

(SE RETAINING WALL SHOWN - NE, NW AND SW RETAINING WALLS SIMILAR)

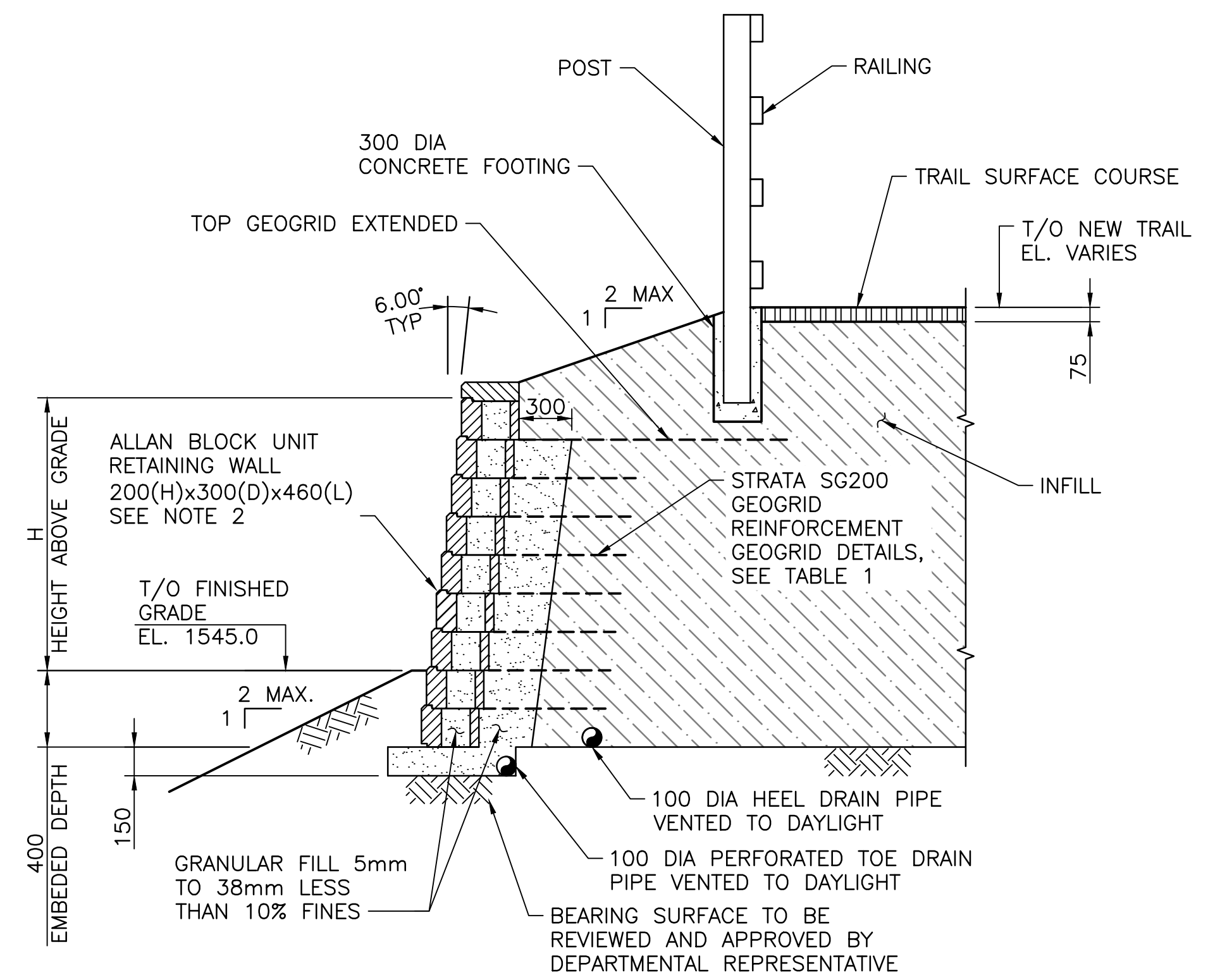
TABLE 1: ALLAN BLOCK RETAINING WALLS

TYPE	WALL				GEOGRID			
	DISTANCE FROM ABUTMENT	MAX WALL HEIGHT	HEIGHT ABOVE GRADE (H)	MIN WALL HEIGHT	BLOCK COURSES	NUMBER OF LAYERS	GEOGRID LENGTH, TYP	GEOGRID LENGTH, TOP
A	0-8.74	2.52	2.31	1.74	9-13	6	1.5	2.4
B	8.74-17.48	1.74	1.59	1.16	6-9	4	1.1	2
C	17.48-20.24	1.16	1.01	0.77	4-6	3	0.9	1.8
D	20.24-TBD	0.77	0.62	0	4	NOT REQUIRED - GRAVITY WALL		

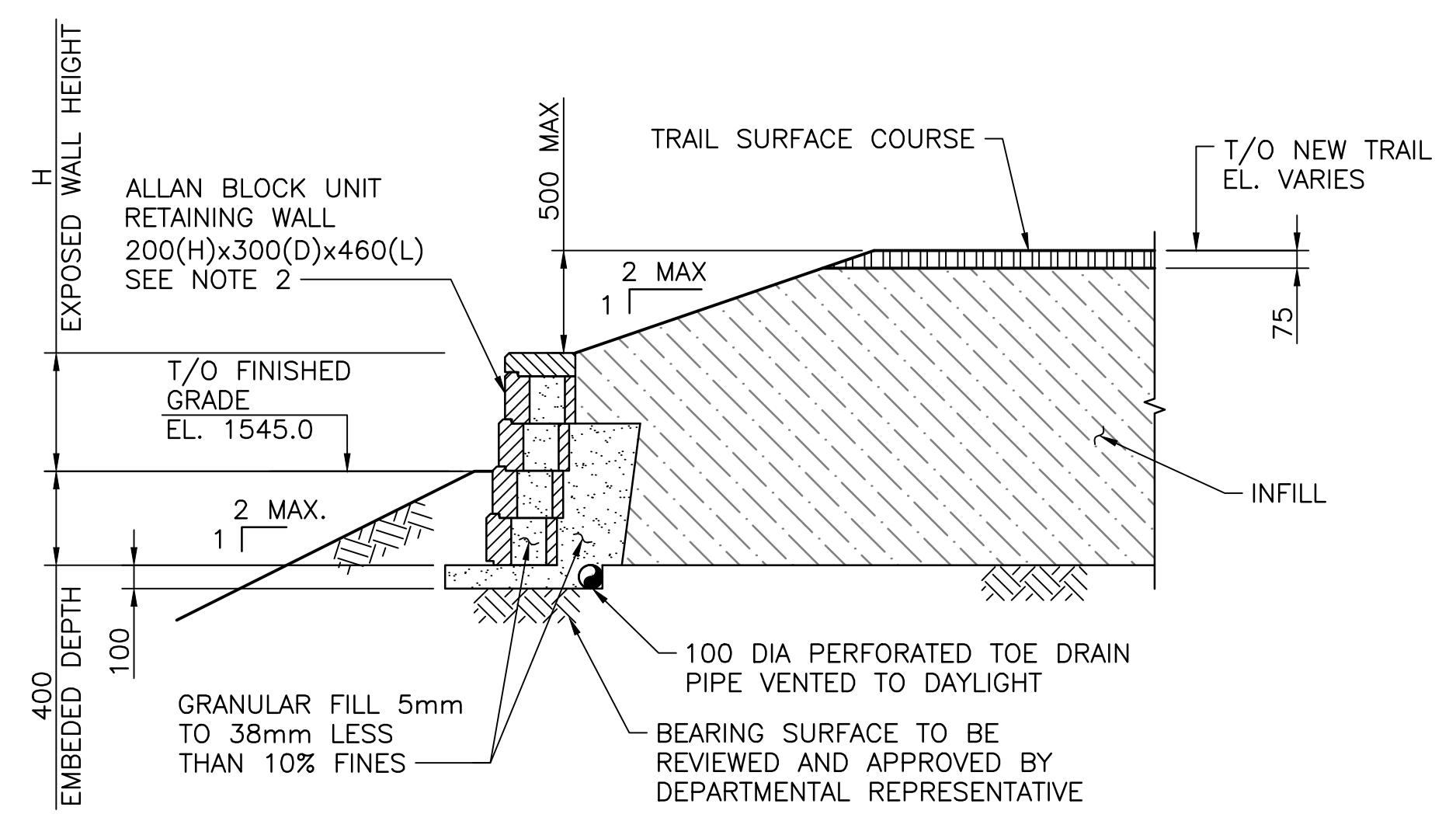
* ACTUAL WALL GEOMETRY WILL CHANGE FOLLOWING TOPOGRAPHIC SURVEY AND CONFIRMATION OF ALIGNMENT. VALUES SHOWN ARE FOR TENDERING PURPOSES ONLY.

NOTES:

- FINAL WALL ALIGNMENT AND TERMINATIONS TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE FOLLOWING CONTRACTOR SUBMITTAL OF TOPOGRAPHIC SURVEY OF ABUTMENT LOCATIONS AND APPROACHES AS NOTED IN CONSTRUCTION NOTE ON SHEET 003.
- RETAINING WALL TO BE ALLAN BLOCK AB UTILIZING AB CLASSIC, AB LITE STONE, AB CAPS AND AB CORNER BLOCKS AS REQUIRED OR EQUIVALENT AS APPROVED BY DEPARTMENT REPRESENTATIVE. CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS.
- AB LITE STONE TO BE USED FOR A GRADUAL STEP-UP OF COURSES TO MATCH 6.2% TRAIL APPROACH GRADE.
- GRANULAR FILL ROCK TO BE IN ACCORDANCE WITH SPECIFICATION.
- EXCAVATED MATERIAL MAY BE USED AS INFILL IF APPROVED BY DEPARTMENT REPRESENTATIVE. OTHERWISE INFILL MATERIAL TO BE OBTAINED FROM IDENTIFIED BORROW SITES.
- BACKFILL TO BE COMPACTED IN LAYERS TO 95% STANDARD PROCTOR DENSITY.
- GEOGRID TO BE STAGGERED SUCH THAT OVERLAPPING OF GEOGRID DOES NOT OCCUR. MINIMUM OF 50 THICK LAYER OF SOIL BETWEEN GEOGRID LAYERS.
- APPROACH RAILING TO BE TERMINATED WHERE TRAIL HEIGHT ABOVE EXISTING GRADE IS LESS THAN 750.



SECTION 1
1:25



SECTION 2
1:25

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CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approve par: DPG

Designed by/Concept par: BRCN

Drawn by/Dessiné par: BEJU/JAET

PWSC Project Manager/Administrateur de Projets TPSGC

PWSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin: APPROACH RETAINING WALLS

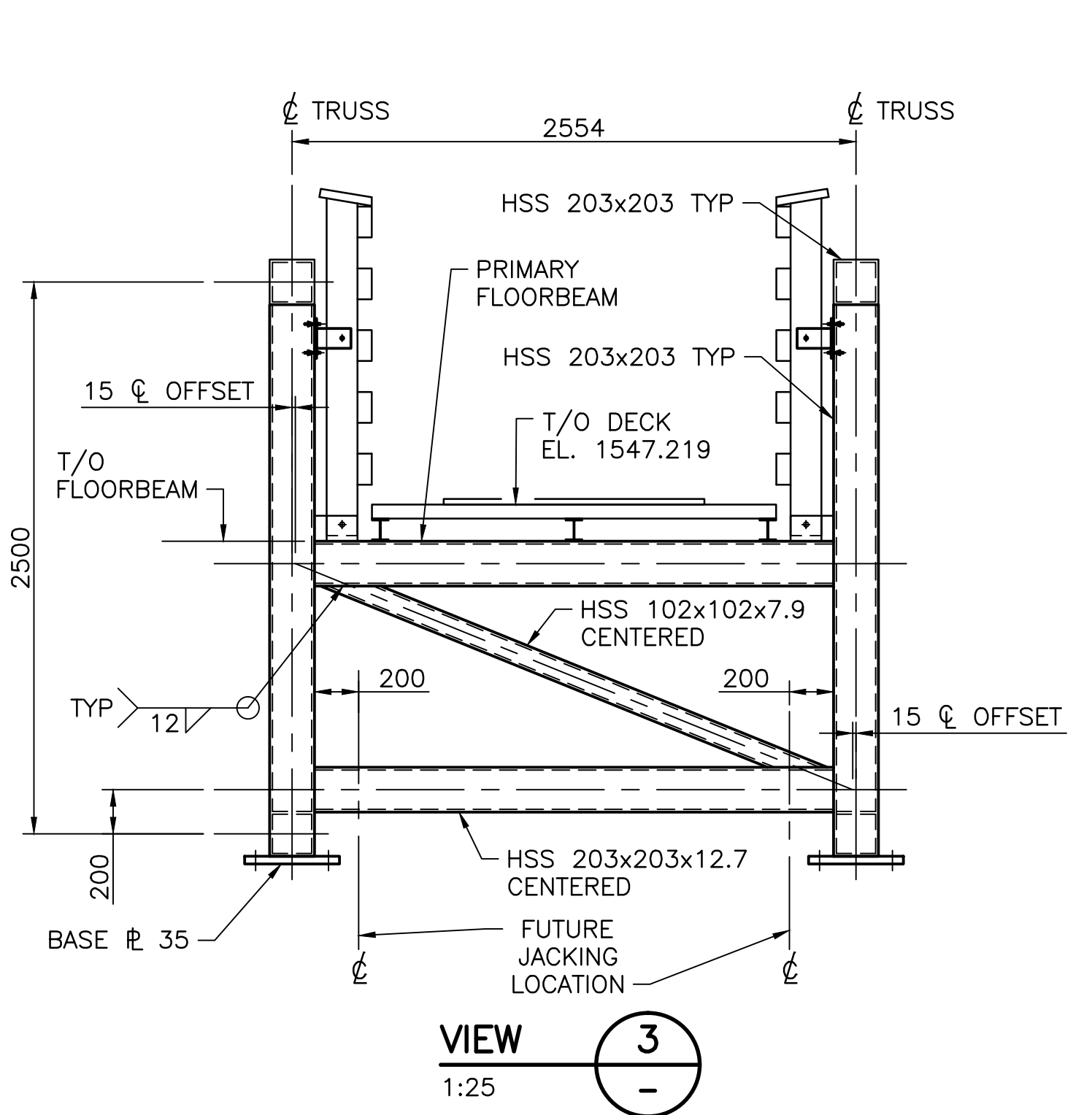
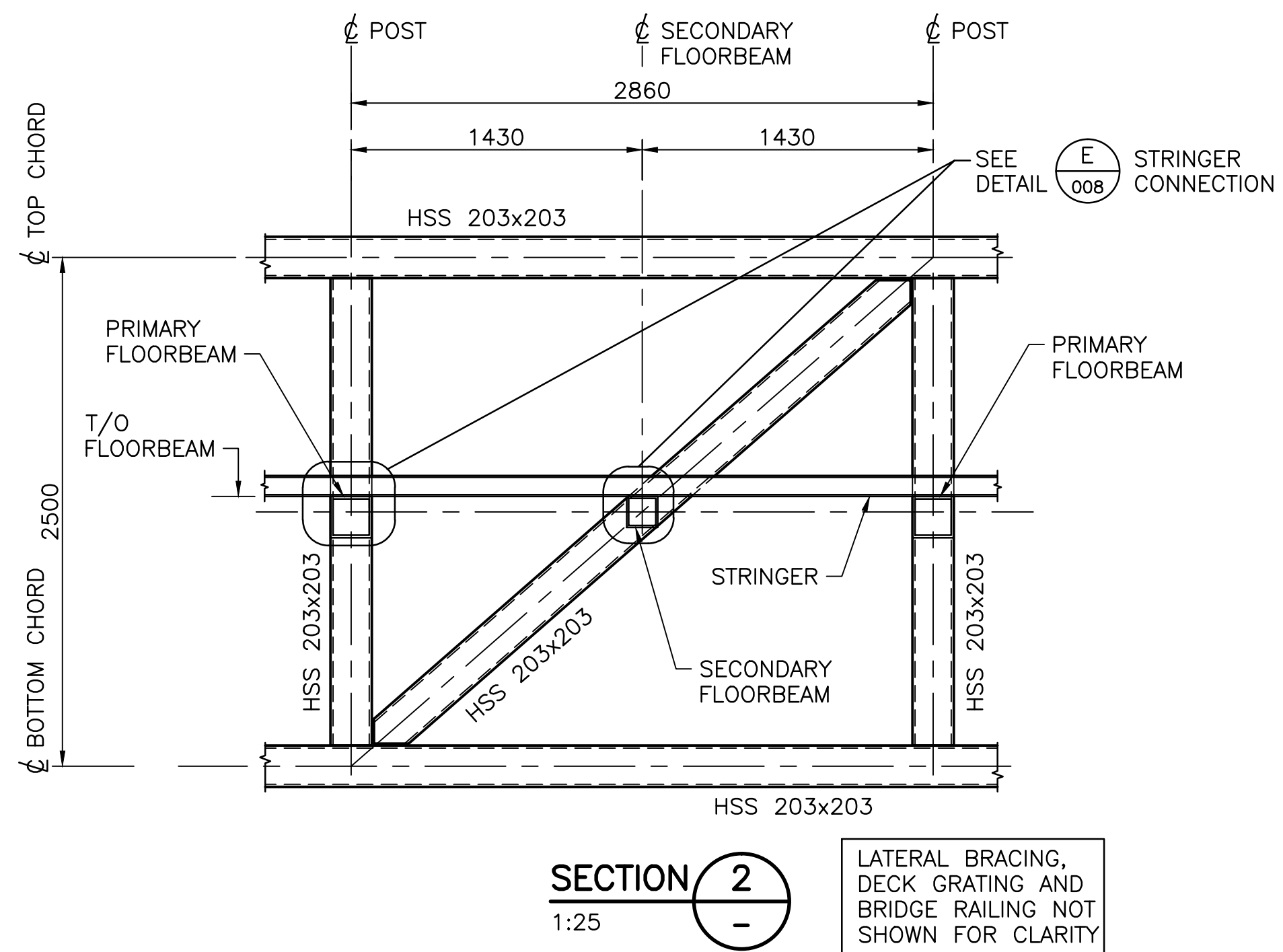
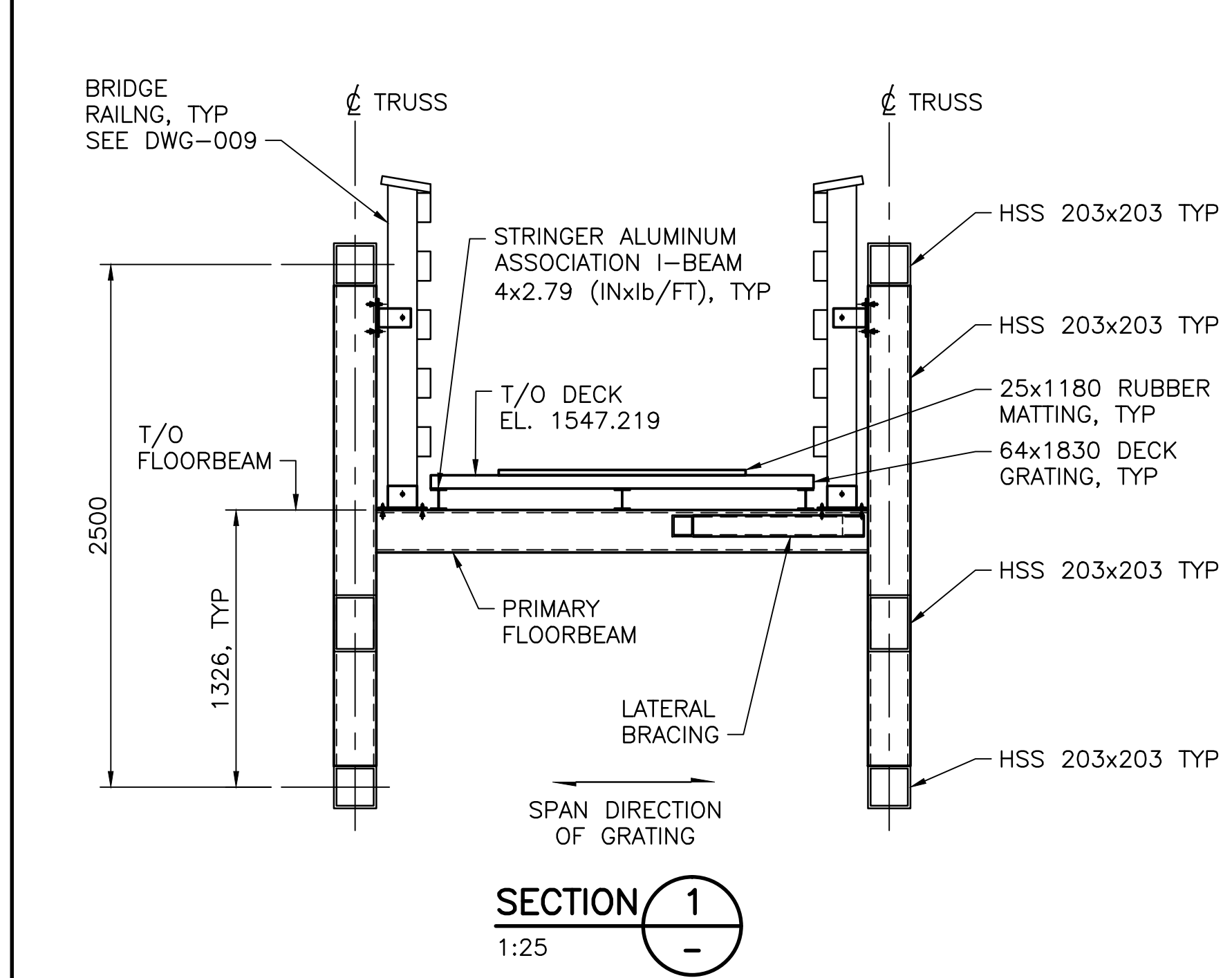
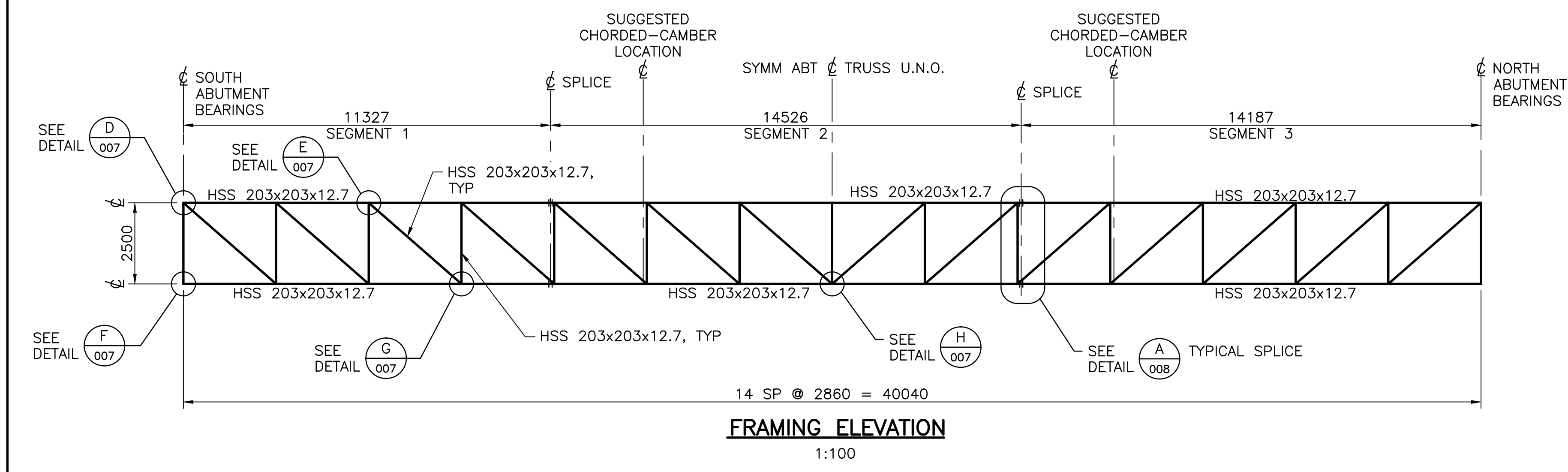
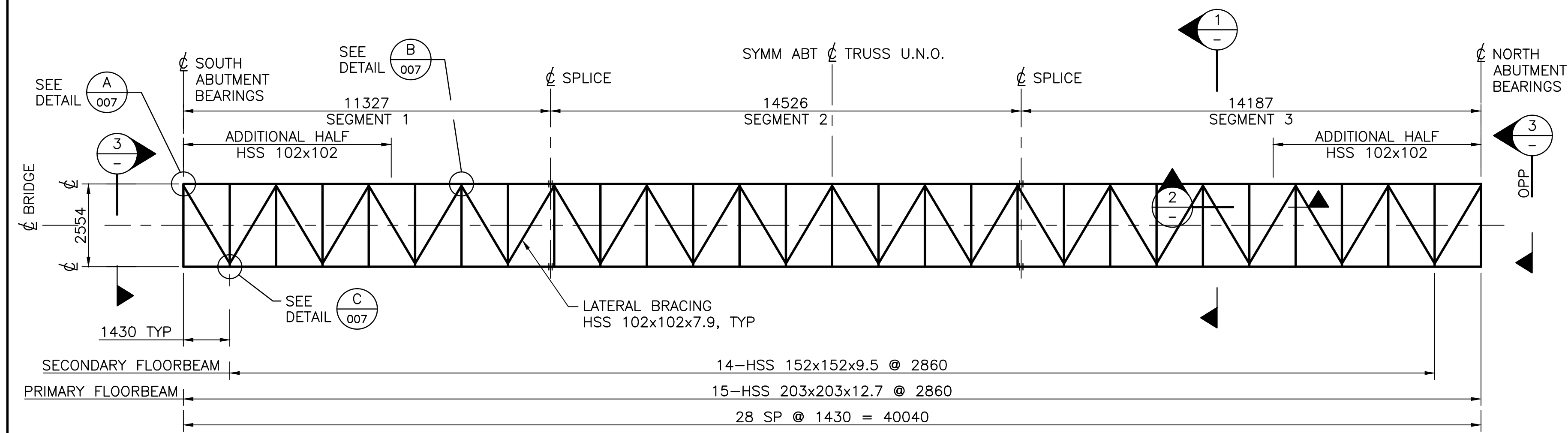
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Sheet/Fauille: 005

Revision no./La Révision no.: A

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NOTES:

- STRUCTURAL ALUMINUM
 - SUPERSTRUCTURE COMPONENTS SHALL BE FABRICATED FROM ALUMINUM, UNLESS NOTED OTHERWISE.
 - EXTRUDED TUBE SECTIONS SHALL BE ALLOY AND TEMPER 6061-T6 IN ACCORDANCE WITH ASTM B221 AND ANSI H35.1/H35.1M.
 - EXTRUDED I-SECTIONS SHALL BE ALLOY AND TEMPER 6061-T6 IN ACCORDANCE WITH ASTM B308 AND ANSI H35.1/H35.1M.
 - PLATE SHALL BE ALLOY AND TEMPER 6061-T651 IN ACCORDANCE WITH ASTM B209 AND ANSI H35.1/H35.1M.
 - SQUARE BAR SHALL BE ALLOY AND TEMPER 6061-T6511 IN ACCORDANCE WITH ASTM B221 AND ANSI H35.1/H35.1M.
- FASTENERS
 - ANCHOR BOLTS AND TRUSS/RAILING BOLTS SHALL BE STAINLESS STEEL MARKING F593D AND F593C RESPECTIVELY, IN ACCORDANCE WITH ASTM F593, UNLESS NOTED OTHERWISE. NUTS SHALL BE STAINLESS STEEL MARKING F594C IN ACCORDANCE WITH ASTM F594, UNLESS NOTED OTHERWISE. WASHERS SHALL BE TYPE 304 STAINLESS STEEL.
 - BLIND SIDED BOLTS SHALL BE STAINLESS STEEL 5/16" x 2 3/4" HOLLO-BOLTS OR APPROVED EQUIVALENT.
- DECKING
 - DECK GRATING SHALL BE FISHER & LUDLOW ALUMINUM TYPE 30-102, 64 X 6 I-BAR GRATING OR APPROVED EQUIVALENT. FASTEN DECK GRATING TO STRINGERS PER MANUFACTURERS SPECIFICATIONS.
 - RUBBER MATTING SHALL BE ECO-FLEX 25 X 1180 INDUSTRIAL FLOOR MATTING OR APPROVED EQUIVALENT. FASTEN RUBBER MATTING TO GRATING WITH STAINLESS STEEL WIRE 2.5 mm DIA, C/W WASHER @ 1.0M SPACING.
- FABRICATION
 - FABRICATOR SHALL BE CANADIAN WELDING BUREAU (CWB) CERTIFIED UNDER CAN/CSA W47.2. FABRICATOR SHALL PROVIDE DEPARTMENTAL REPRESENTATIVE WITH PROPOSED WELDING PROCEDURE AND MILL CERTIFICATES PRIOR TO STARTING FABRICATION.
 - WELDING SHALL CONFORM TO CAN/CSA W59.2 AND BE PERFORMED BY CWB CERTIFIED WELDERS.
 - WELDS SHALL BE MADE WITH 5356 FILLER MATERIAL.
 - FABRICATOR SHALL CONTROL WARPING OF COMPONENTS DURING WELDING BY ALTERNATING WELDS AND/OR ALLOWING COOLING PERIODS BETWEEN WELDS AND/OR CLAMPING OF MATERIAL.
 - TOP AND BOTTOM CHORD SHOP SPLICES SHALL BE COMPLETE PENETRATION TYPE WELDS AND MAY ONLY BE USED AT PANEL POINT LOCATIONS. NO SHOP SPLICES SHALL BE PERMITTED ON POSTS, DIAGONALS, LATERAL BRACING, OR FLOORBEAMS.
 - CAMBER TRUSS VERTICALLY UPWARD BY 85mm AT MIDSPAN. SUGGESTED CHORDED-CAMBER LOCATIONS SHOWN ON FRAMING ELEVATION.
 - OPEN HOLES SHALL BE 1.5 mm (1/16") LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.
 - FABRICATOR SHALL DE-BURR ALL SHARP EDGES.
 - FABRICATOR SHALL DRILL 6 mm DIA DRAIN HOLES AT THE BOTTOM OF ALL CAVITIES.
 - FABRICATOR TO PROVIDE ACCESS FOR INSPECTION AND NON-DESTRUCTIVE TESTING OF WELDS BY DEPARTMENTAL REPRESENTATIVE AT COMPLETION OF FABRICATION.

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CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approve par
DPG

Designed by/Concept par
DLB

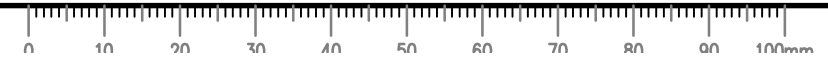
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JAET

PWGSC Project Manager/Administrateur de Projets TPSGC

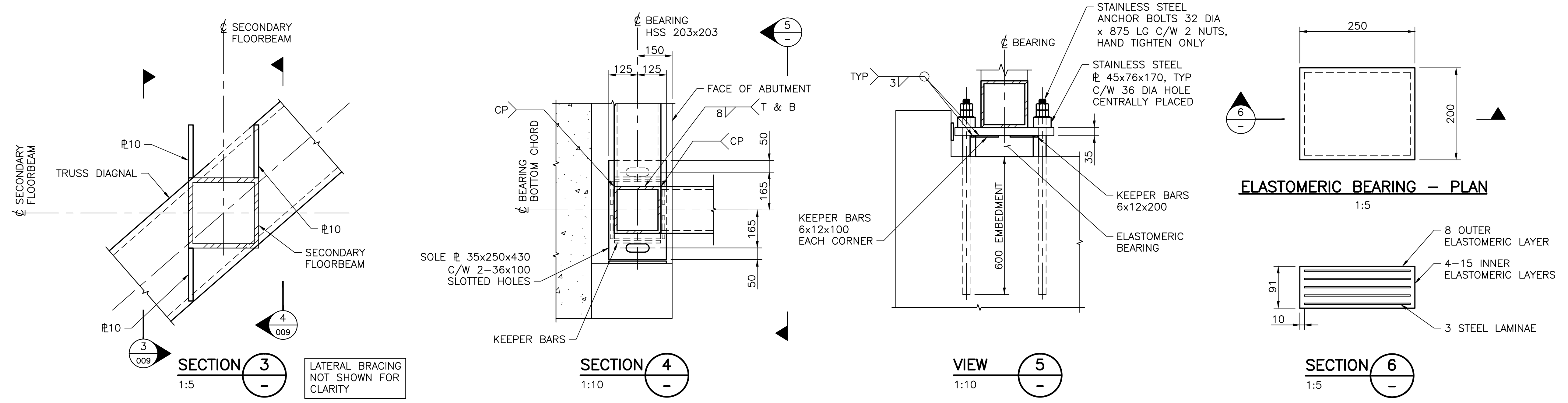
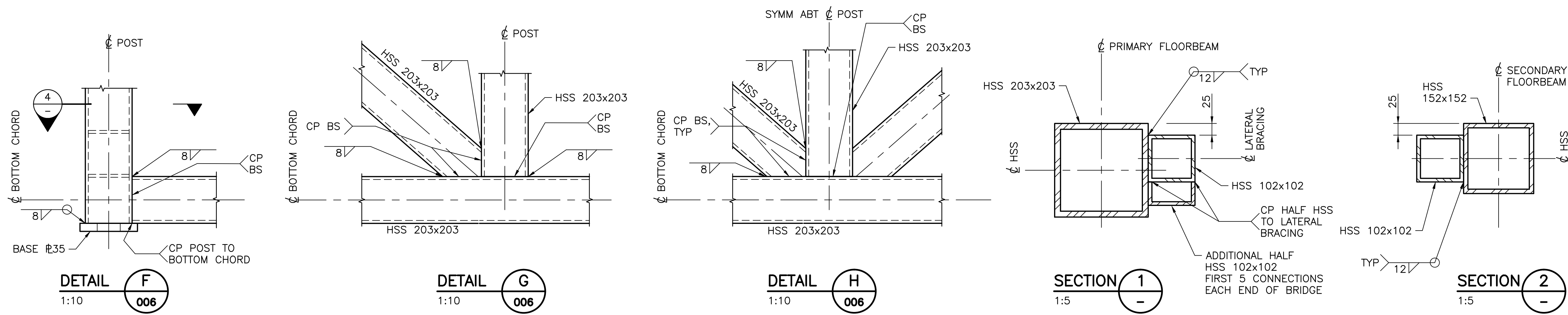
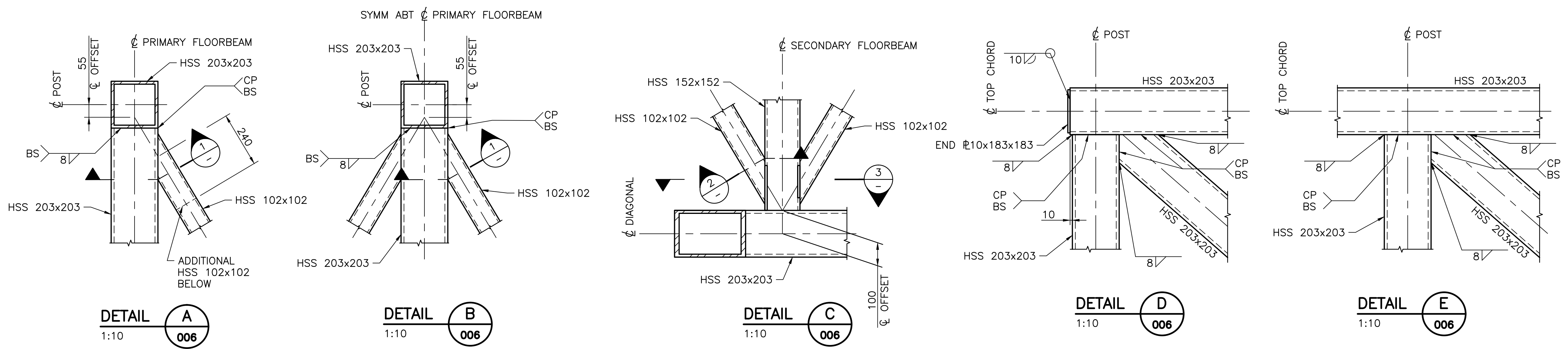
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Client/client

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BEARING LOAD TABLES

LOAD CASE	LOADS PER BEARING				LONGITUDINAL MOVEMENT	ROTATION
	SLS		ULS			
	MIN	MAX	MIN	MAX	SLS	SLS (DEGREE)
PERMANENT VERTICAL LOAD	48 kN	48 kN	45 kN	54 kN	± 30mm	0.57°
TOTAL VERTICAL LOAD	139 kN	139 kN	64 kN	202 kN		

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Revision/Revision	Description/Description	Date/Date
A	ISSUED FOR TENDER	14/07/09

Client/client
Parks Canada Agency / L'Agence Parcs Canada



Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approve par
DPG
Designed by/Concept par
DLB
Drawn by/Dessine par
JAET
PWGSC Project Manager/Administrateur de Projets TPSGC

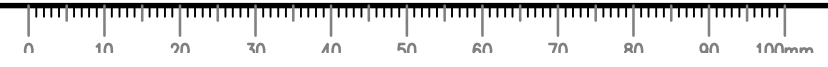
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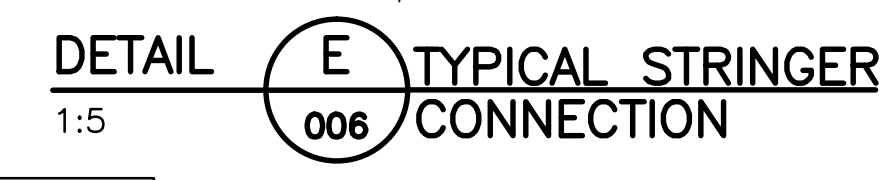
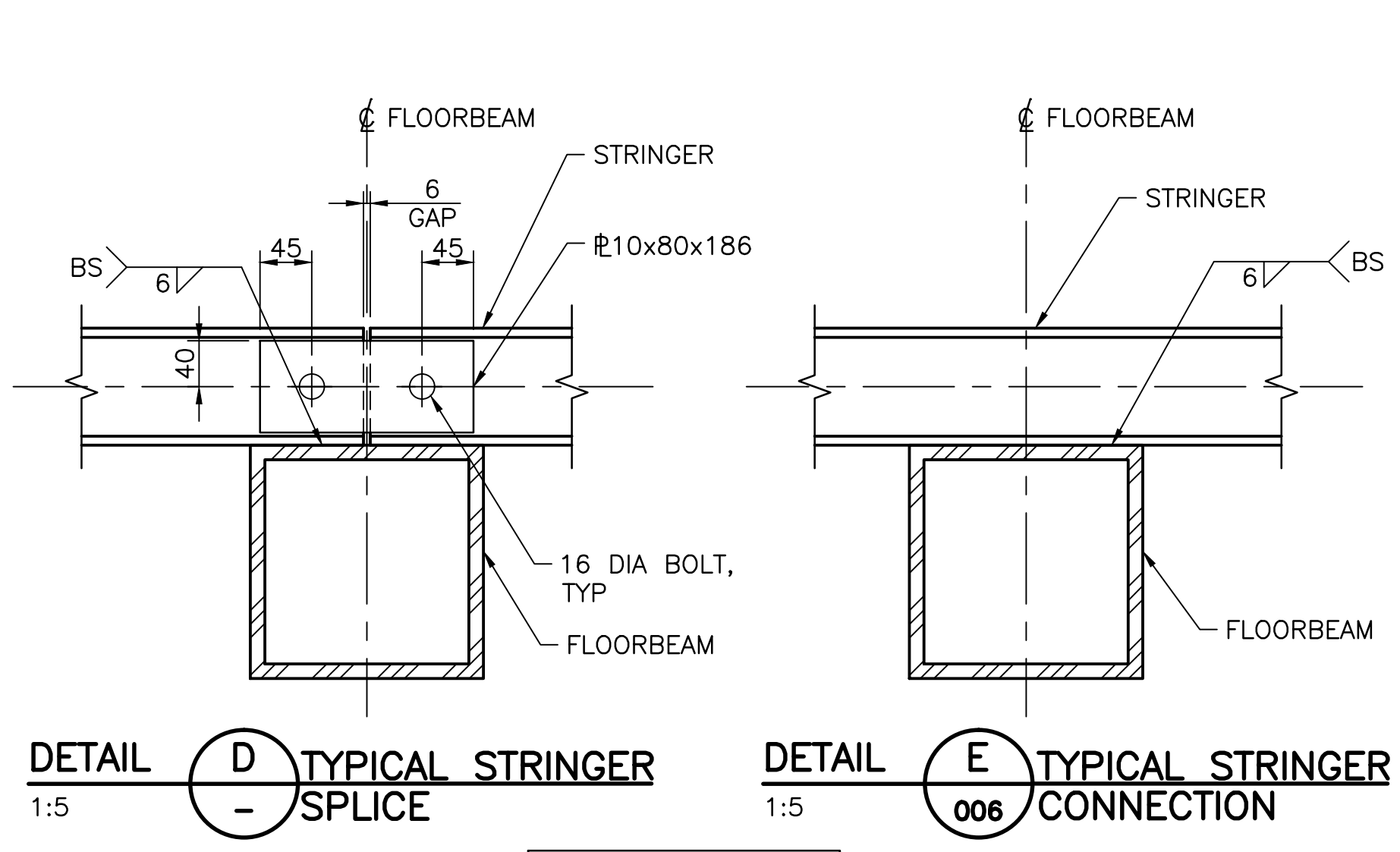
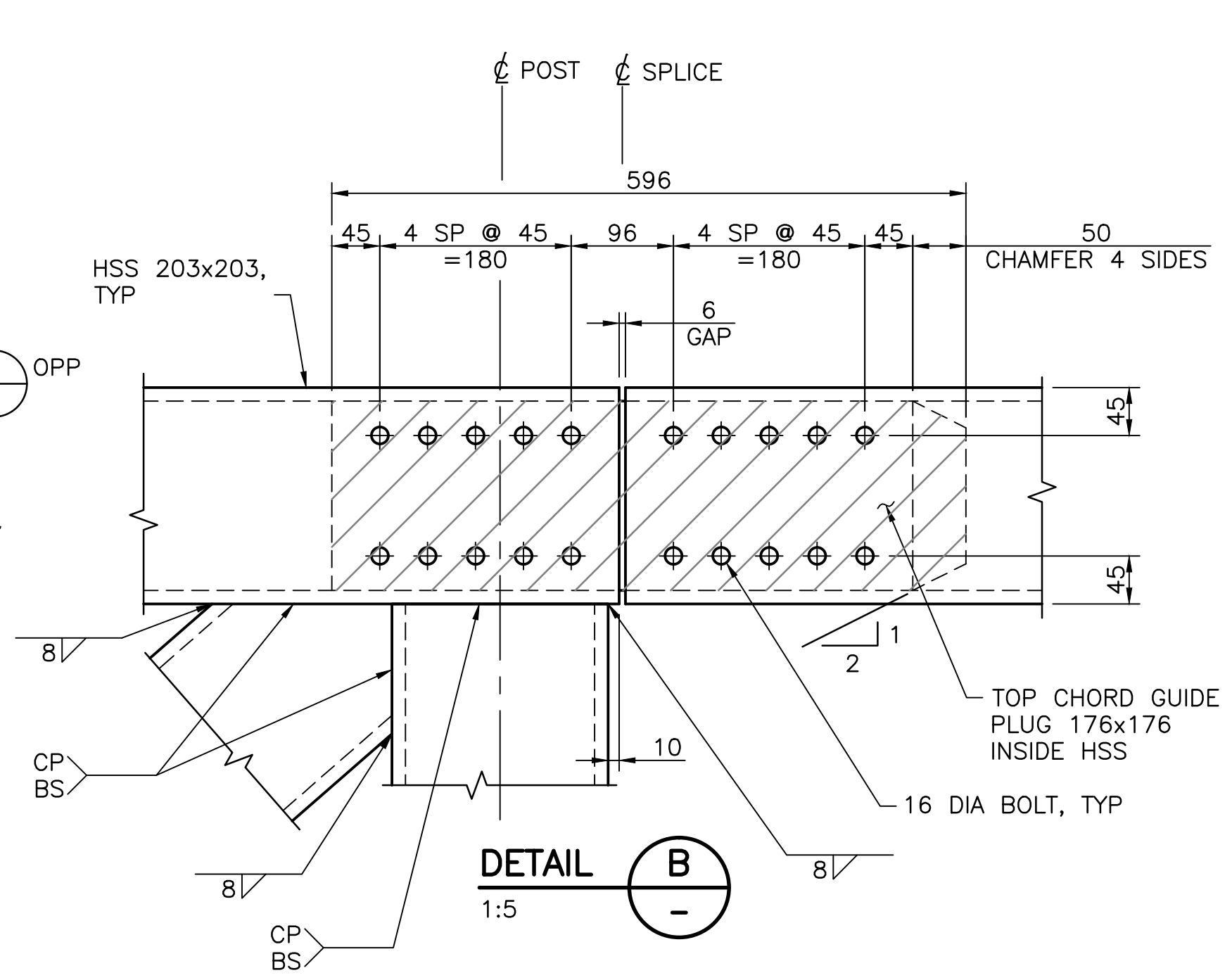
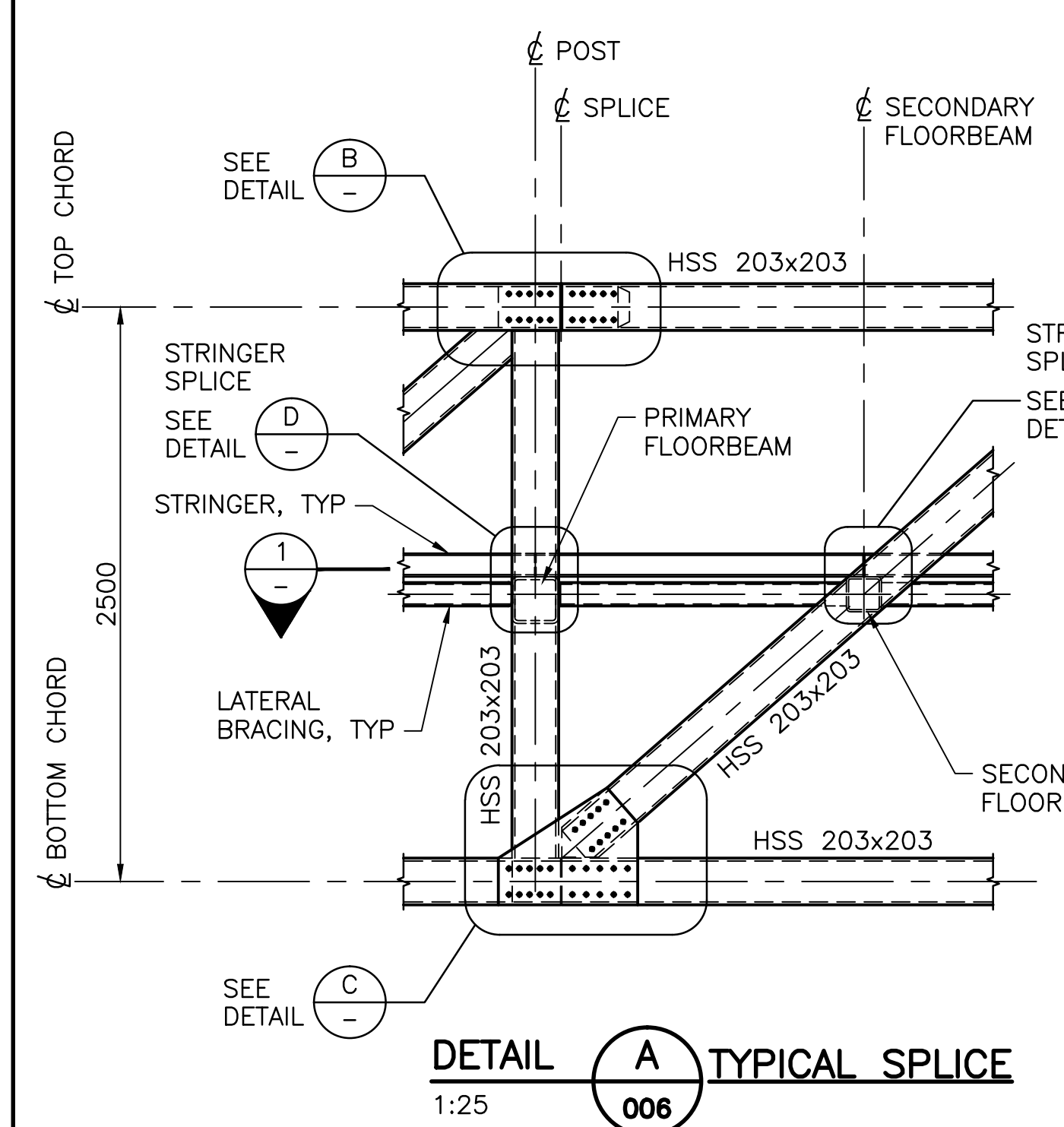
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TRUSS CONNECTIONS 1

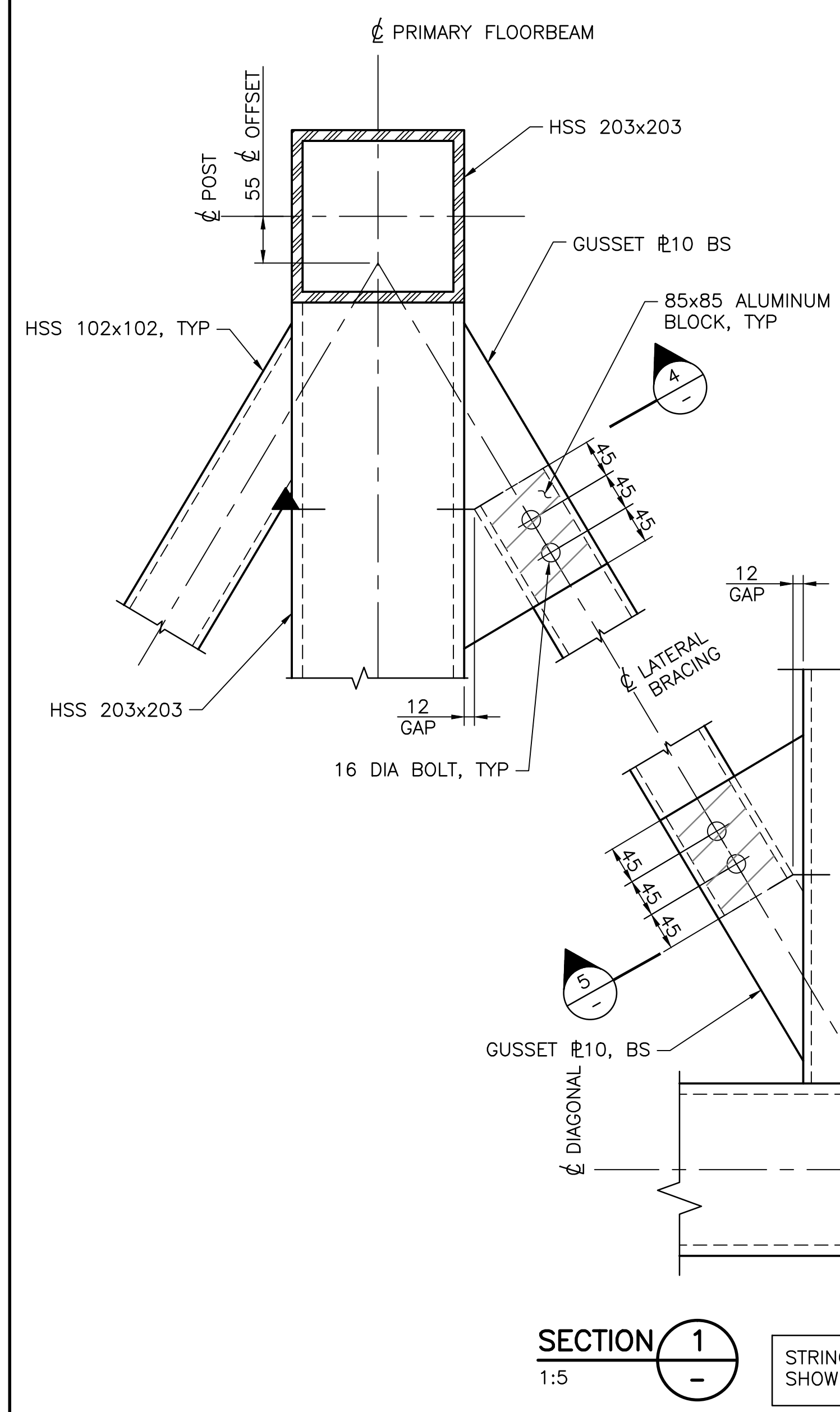
Project No./No. du projet
5P421-15-0033
Sheet/Fauille
007
Revision no./Le Révision no.
A
OF 010



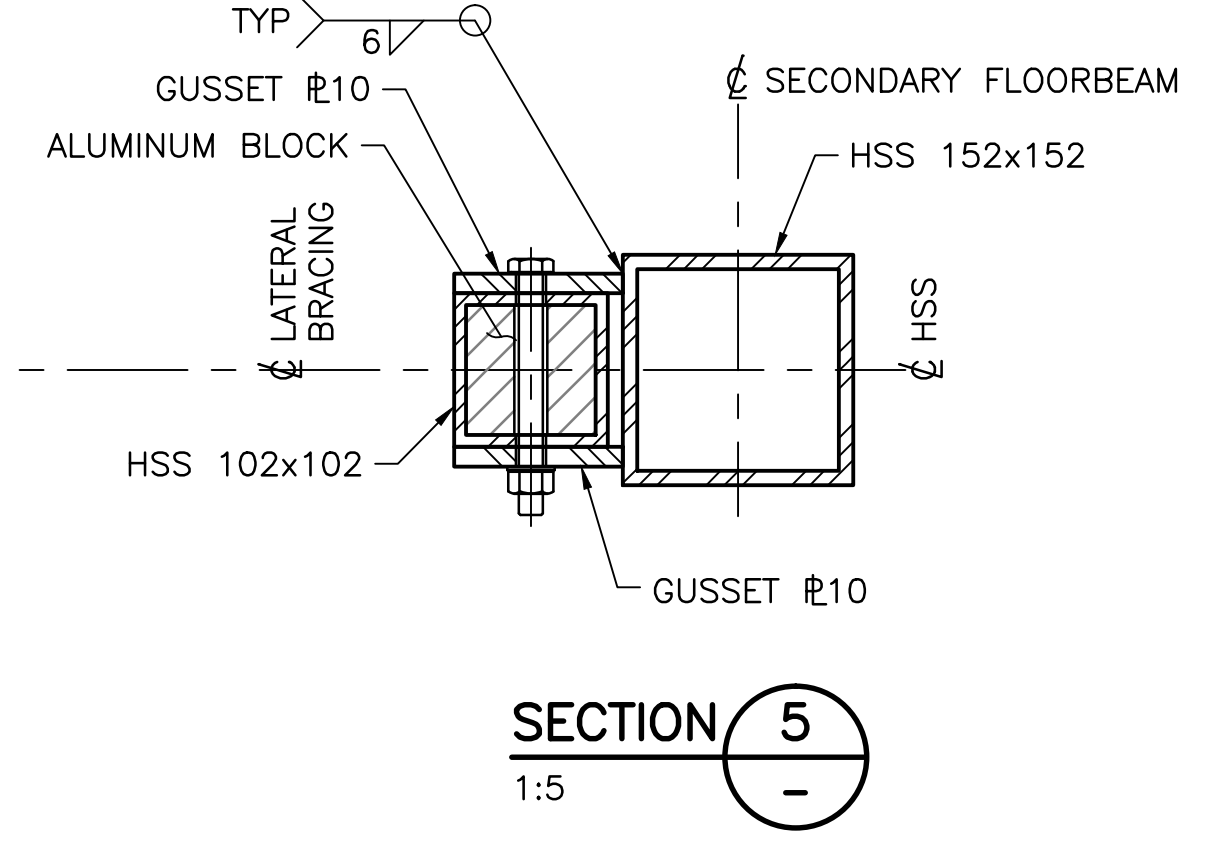
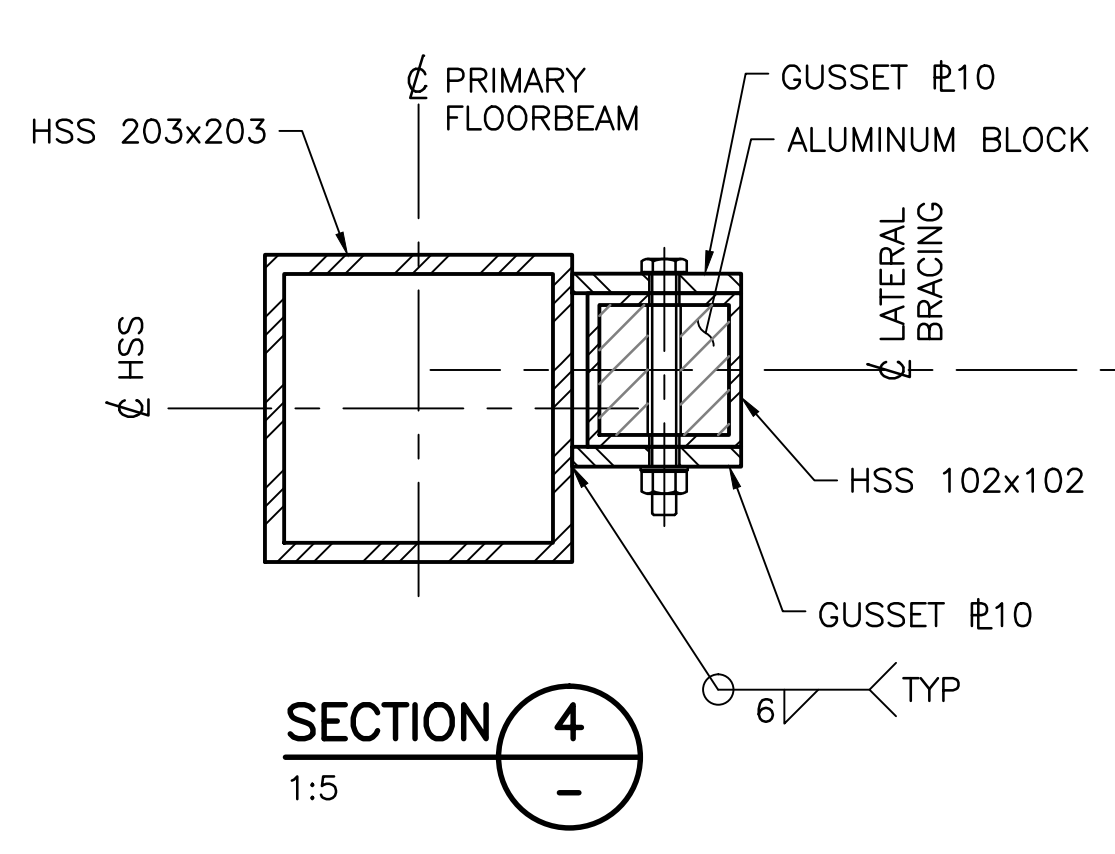
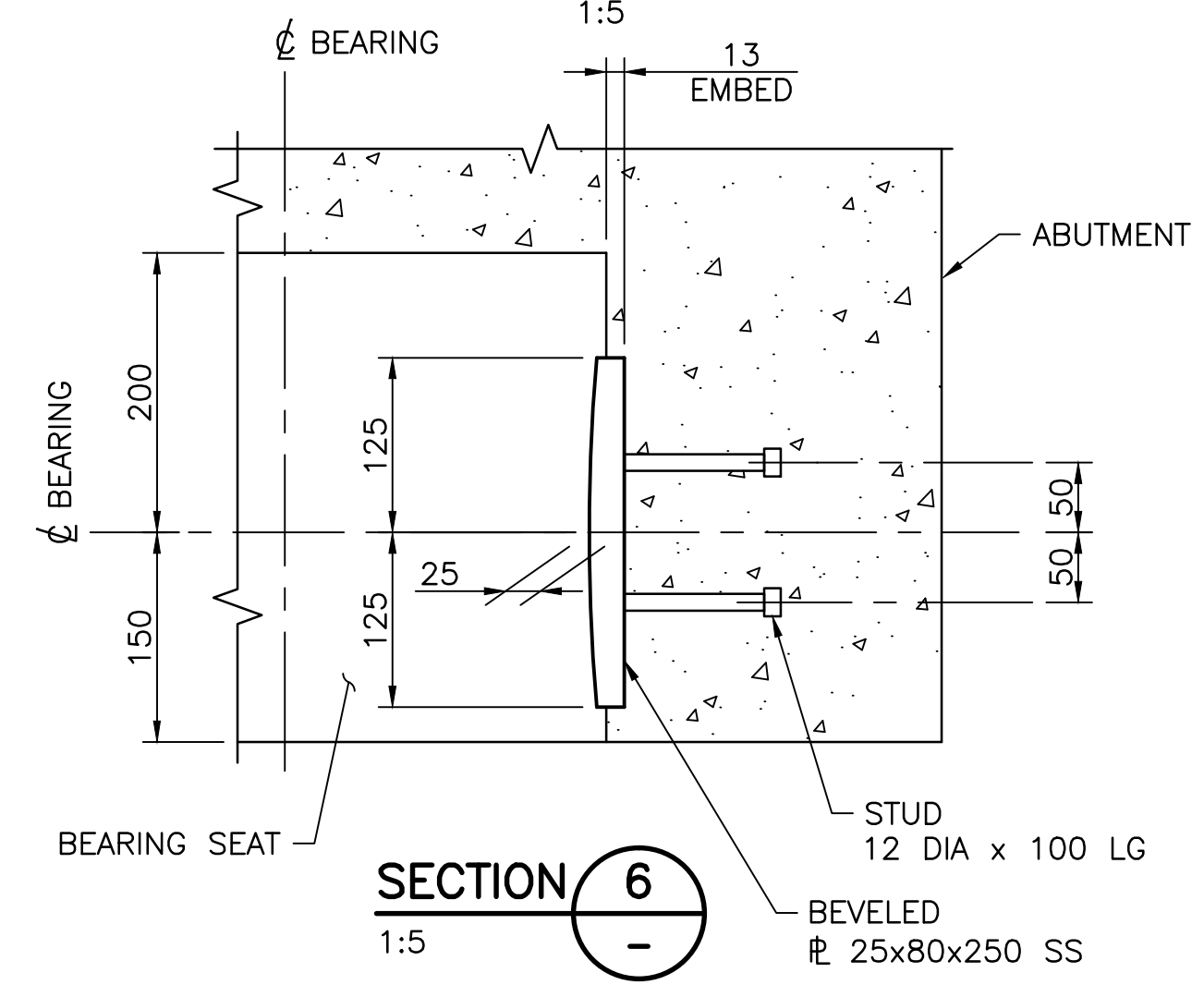
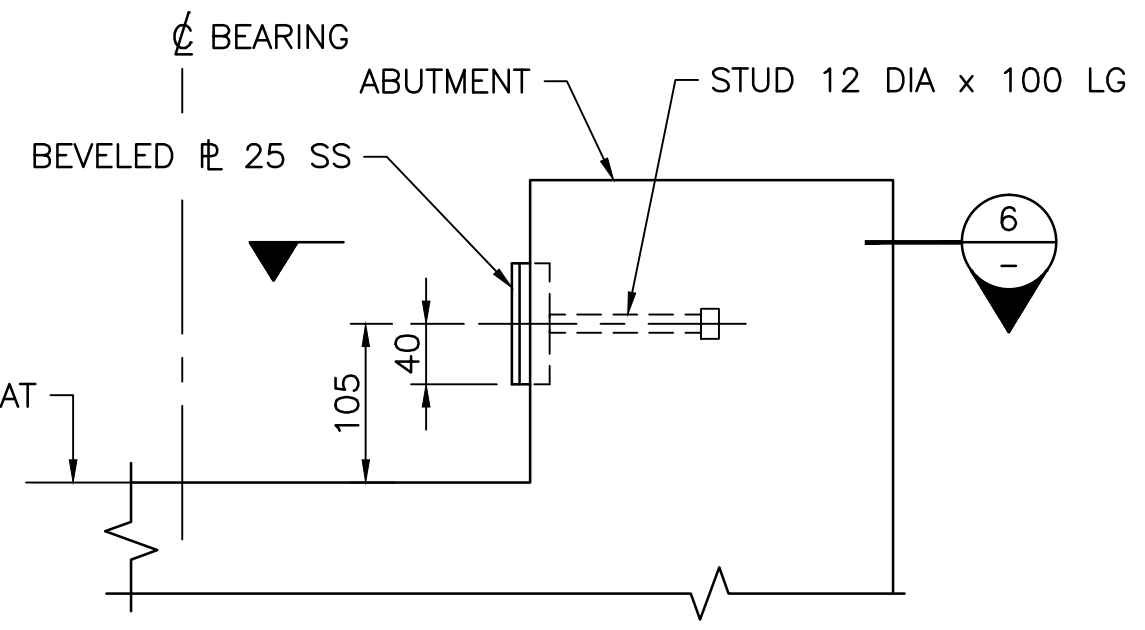
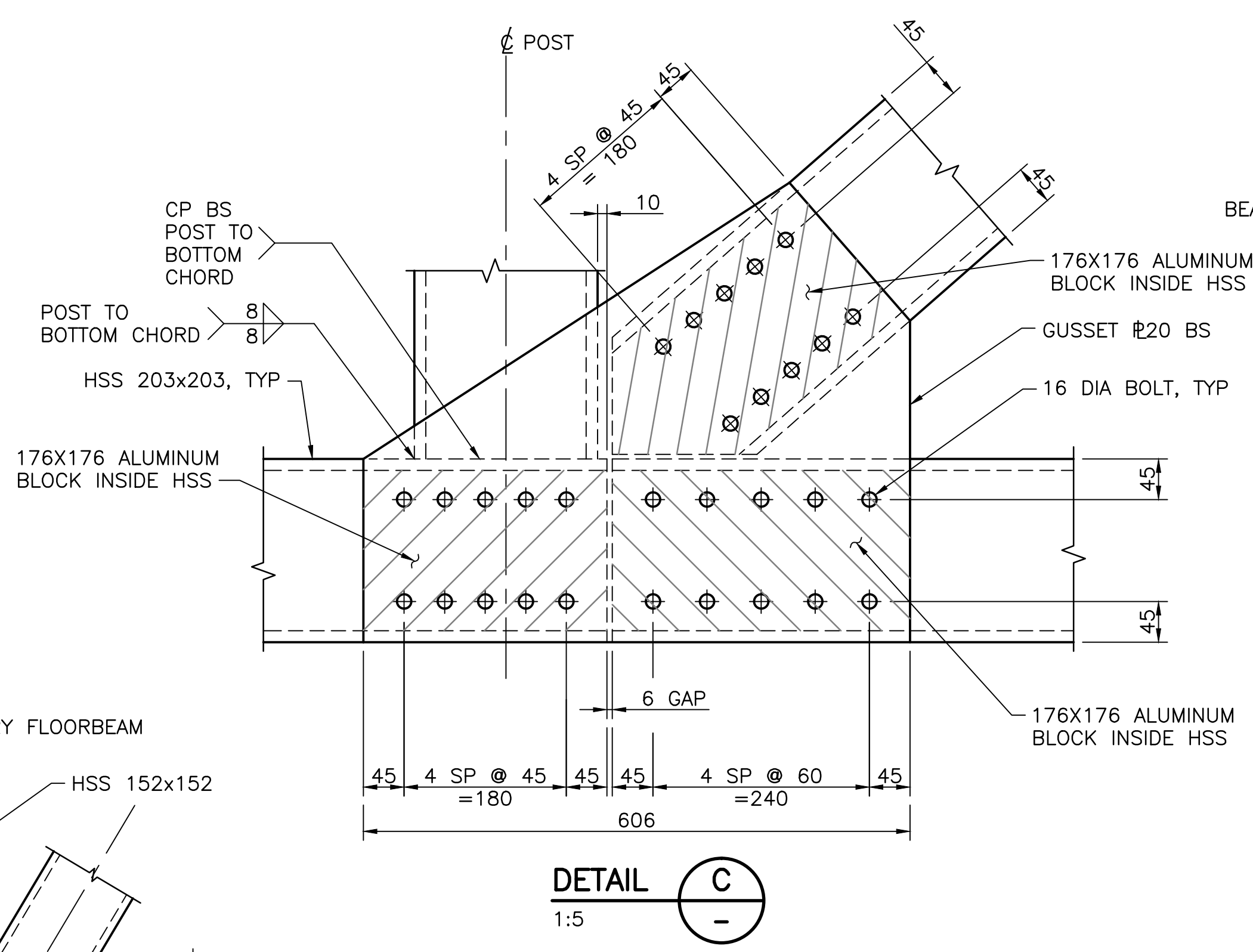
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POST, DIAGONAL AND LATERAL BRACING NOT SHOWN FOR CLARITY

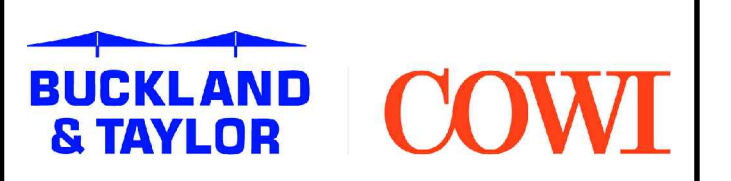


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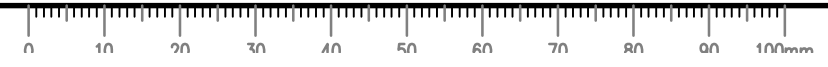
Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approve par
DPG
Designed by/Concept par
DLB
Drawn by/Dessine par
JAET
PWGSC Project Manager/Administrateur de Projets TPSGC

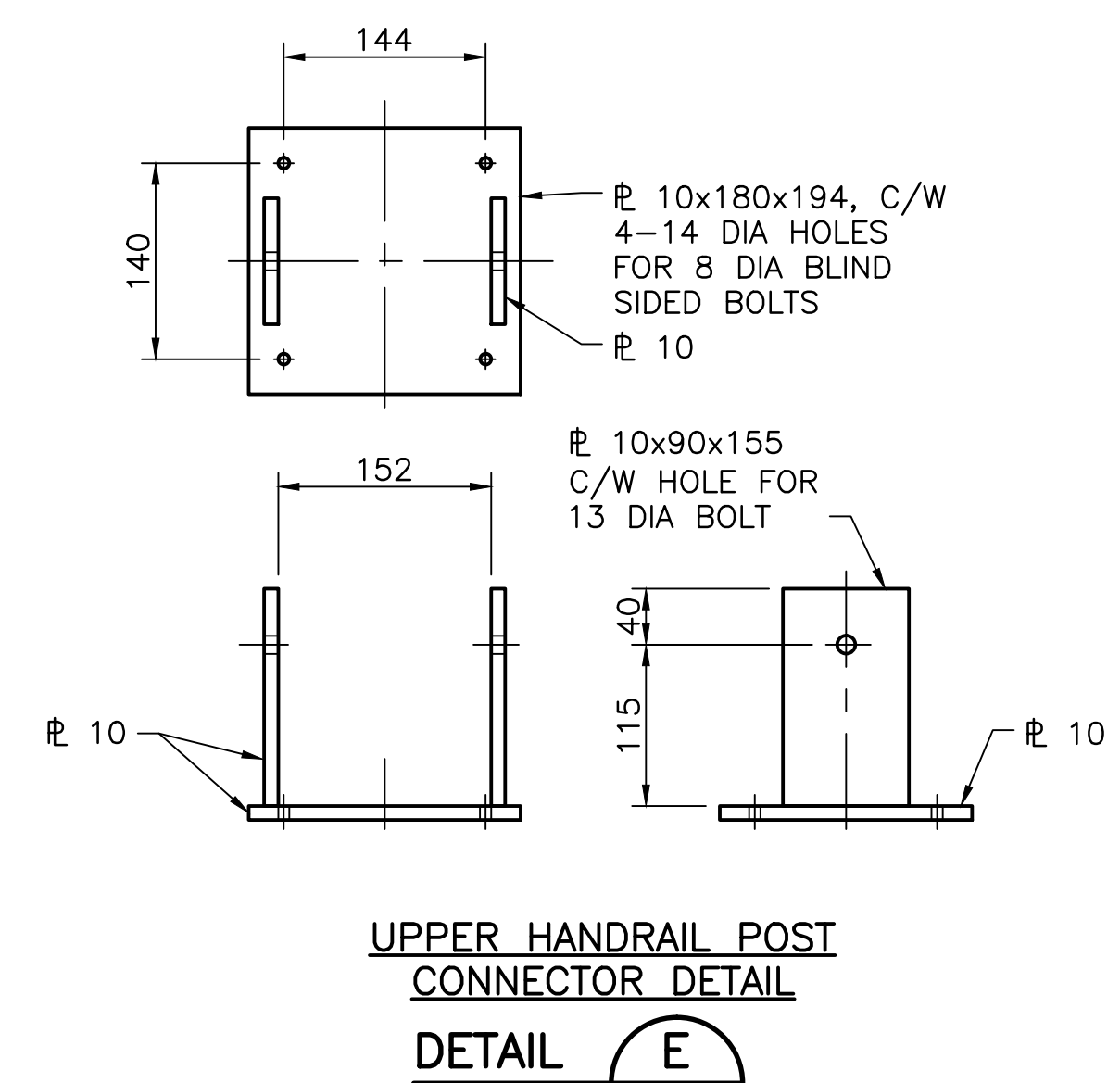
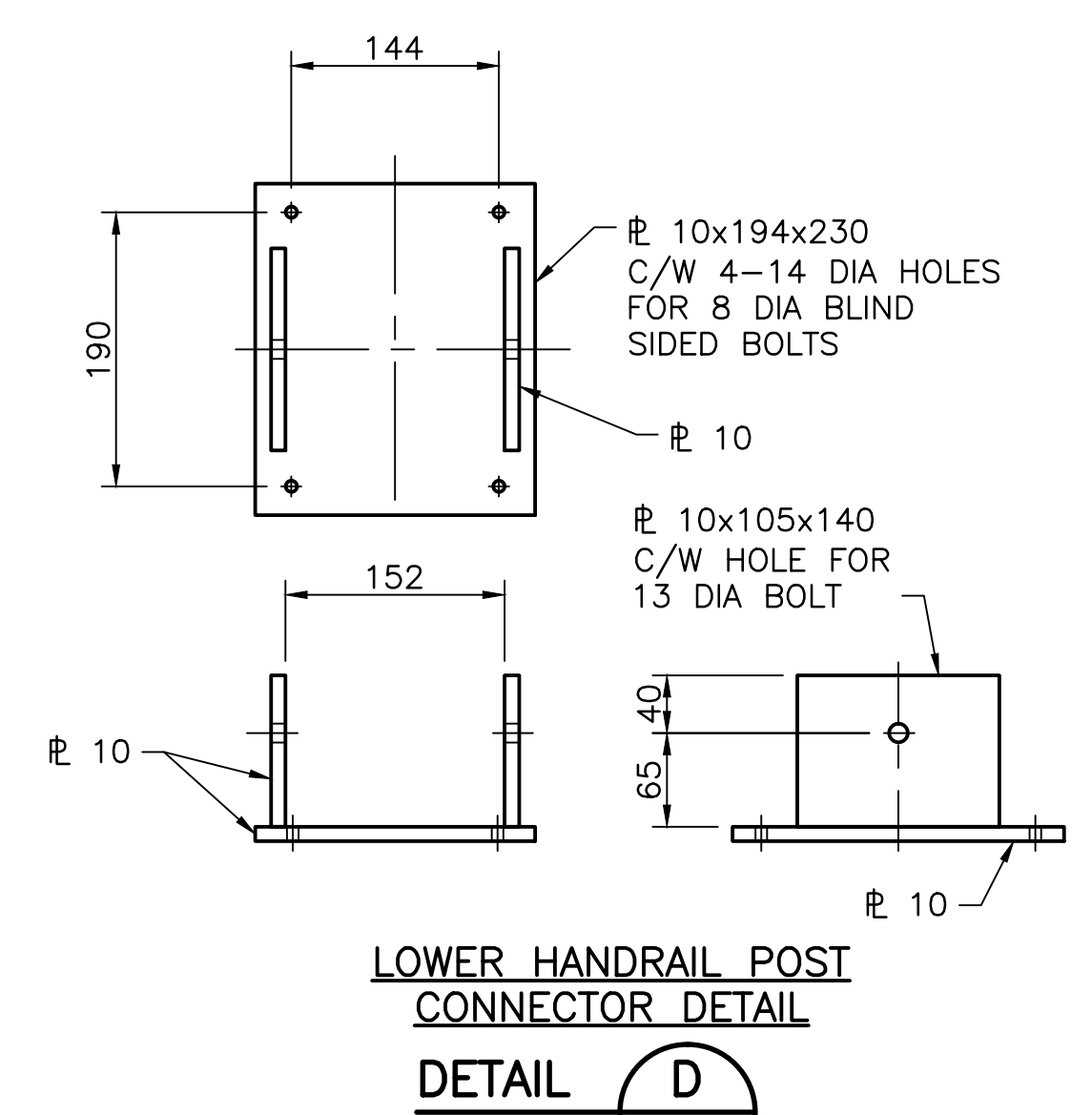
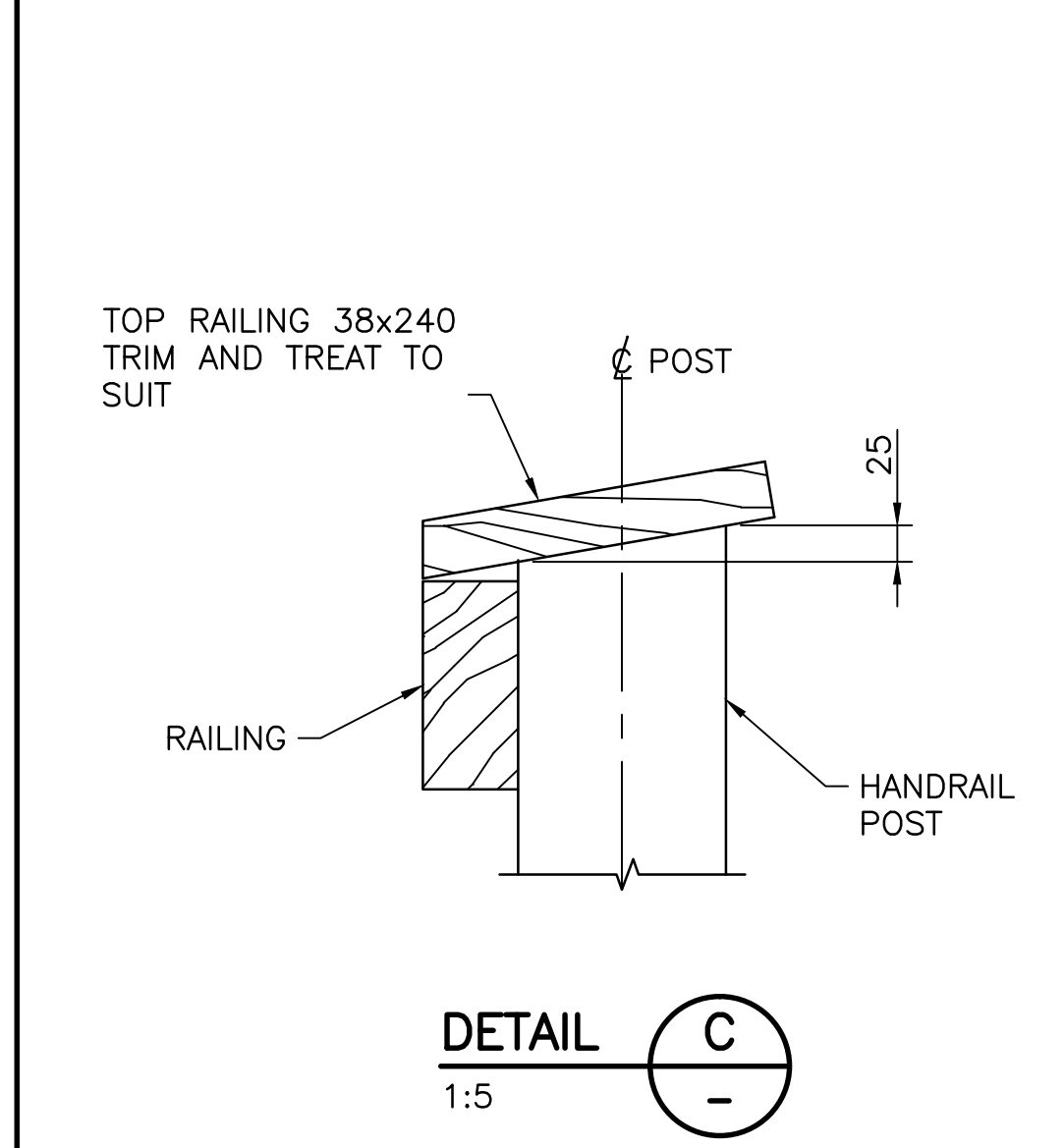
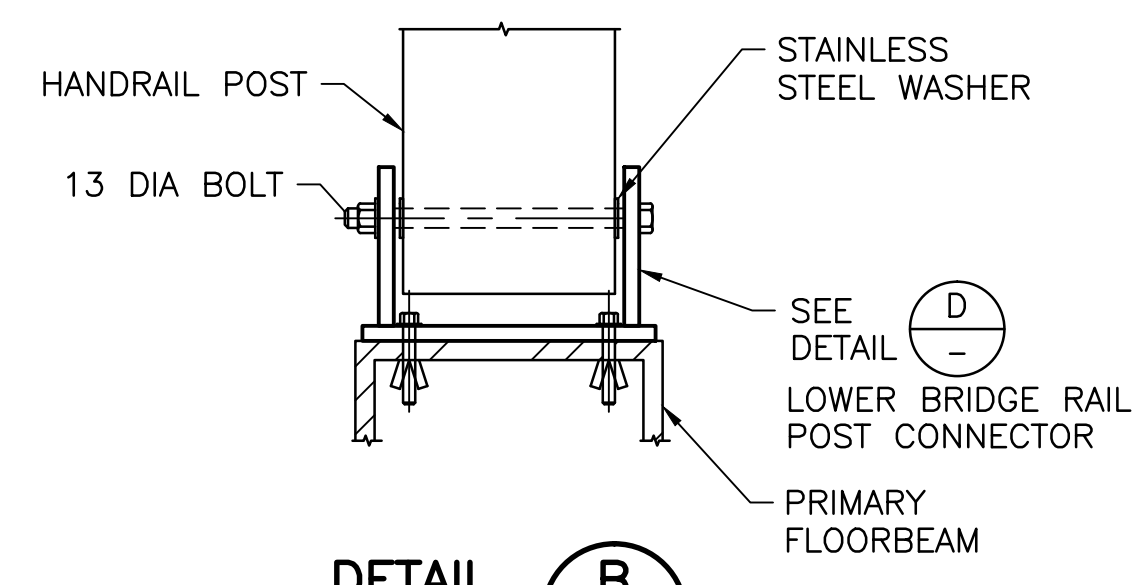
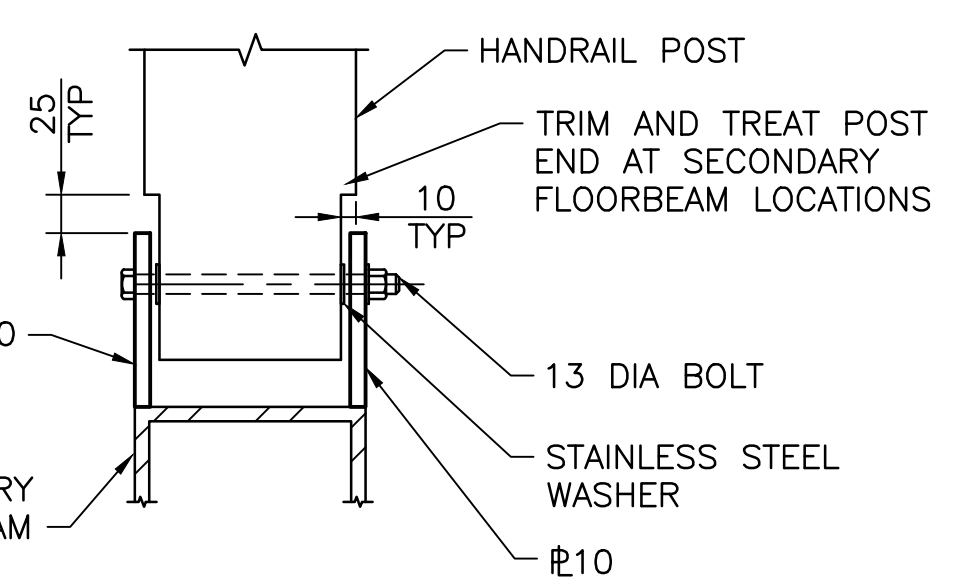
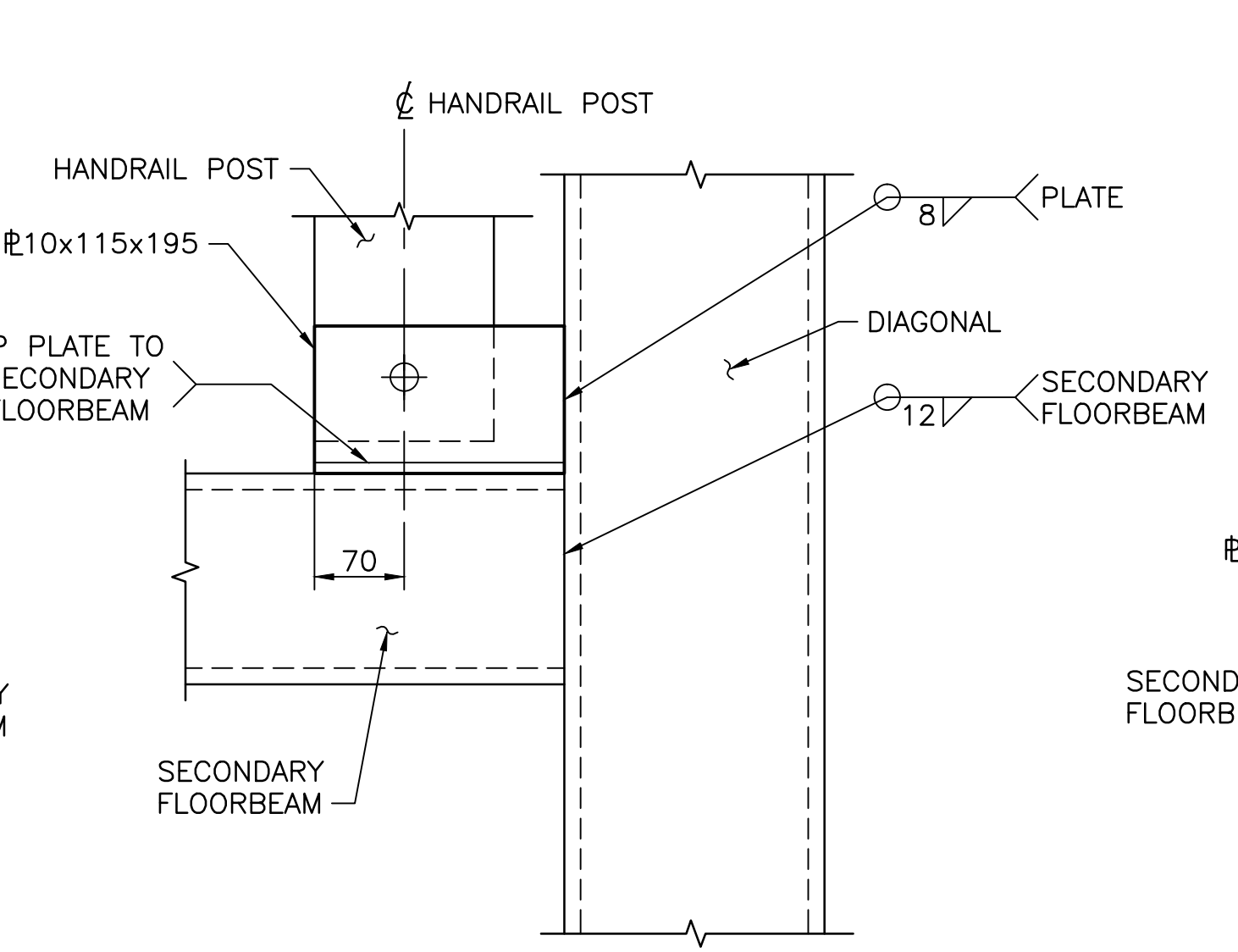
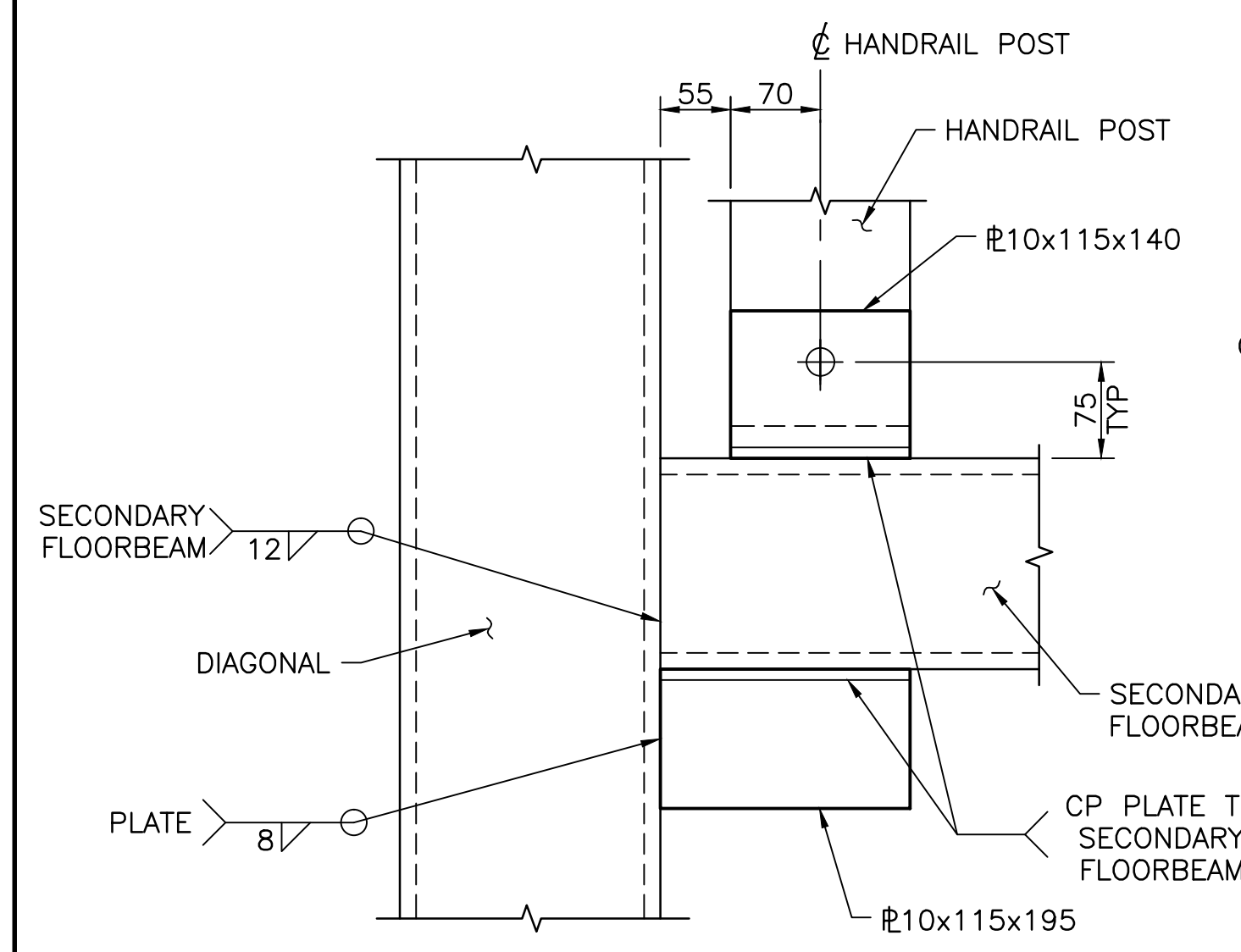
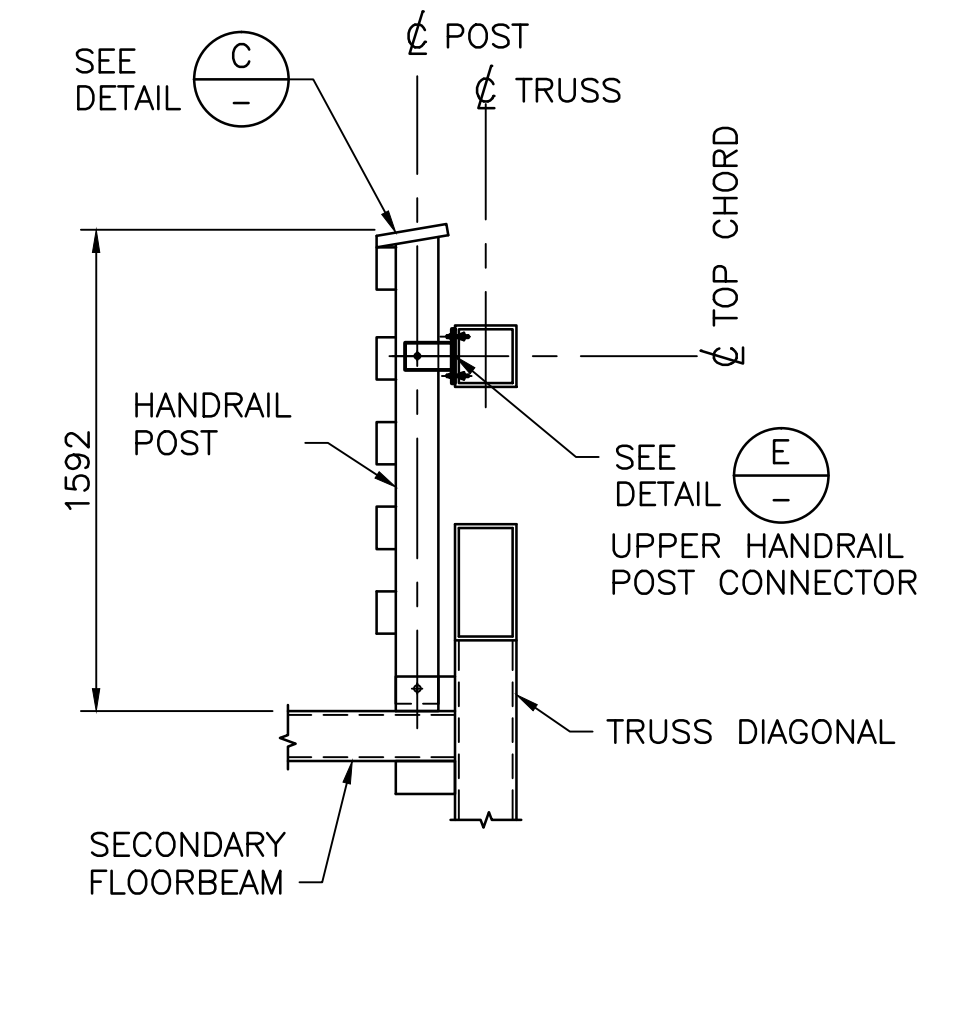
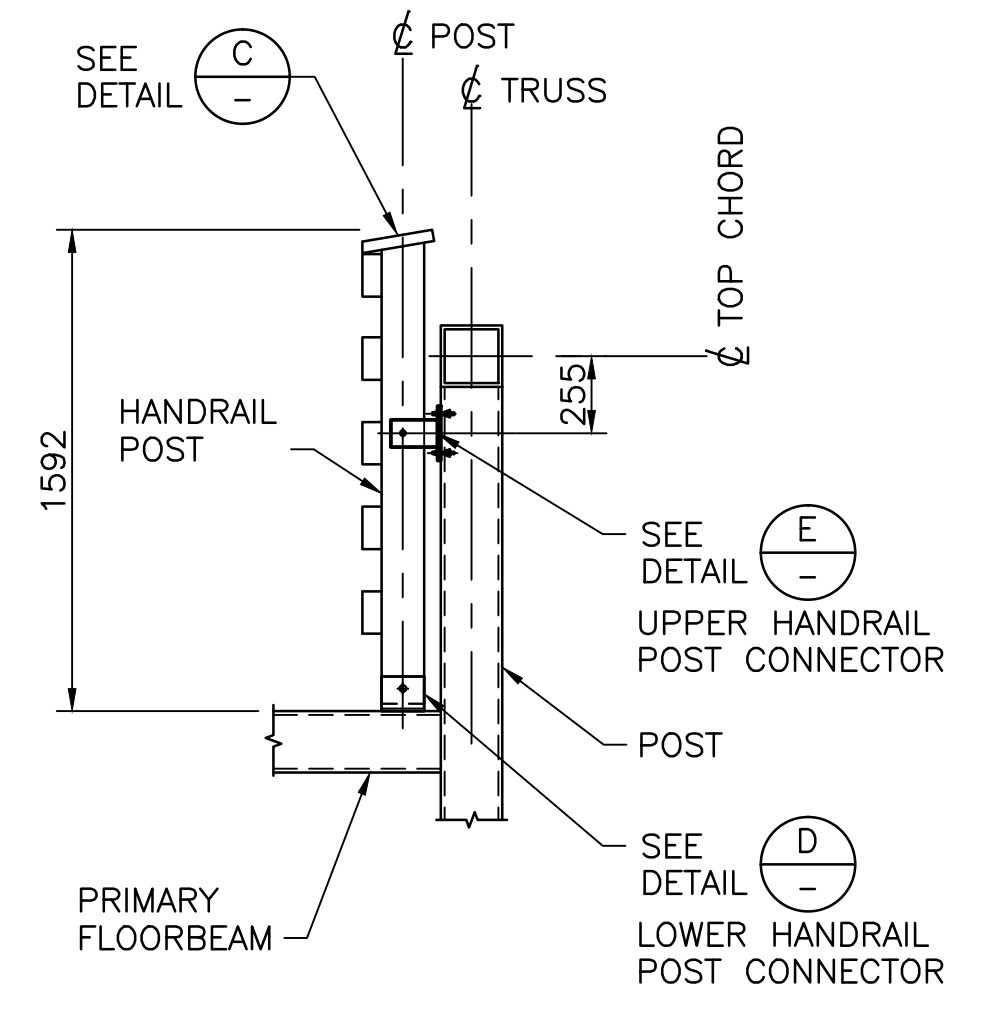
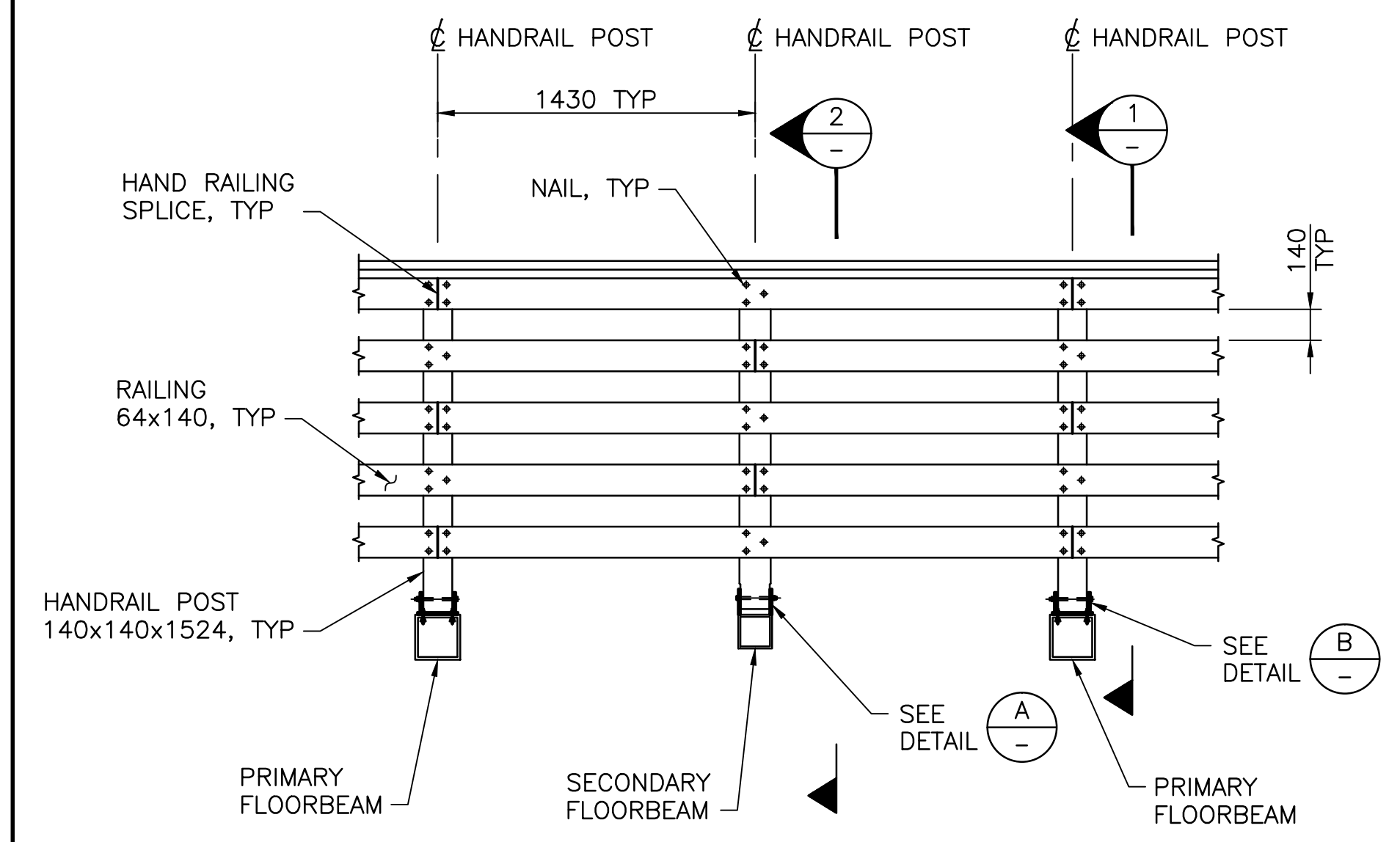
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Drawing title/Titre du dessin
TRUSS CONNECTIONS 2

Project No./No. du projet 5P421-15-0033	Sheet/Fauille 008 OF 010	Revision no./Le Révision no. A
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NOTES

- TIMBER SHALL BE HEMLOCK-FIR GRADE NO. 2 OR BETTER.
- TIMBER SHALL BE TREATED WITH A PRESERVATIVE APPROVED FOR PEDESTRIAN CONTACT IN ACCORDANCE WITH CAN/CSA S6-06 AND PCA GUIDELINES FOR THE USE, HANDLING, AND DISPOSAL OF TREATED WOOD. PRESERVATIVE TREATMENT SHALL BE APPLIED IN ACCORDANCE WITH CAN/CSA 080.
- NAILS SHALL BE 5-INCH COMMON WIRE NAIL. HOLES FOR NAILS TO BE PRE-DRILLED.

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Revision/	Description/Description	Date/Date
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Client/client	Parks Canada Agency	L'Agence Parcs Canada
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Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approve par
DPG

Designed by/Concept par
DLB/CMK

Drawn by/Dessine par
BEXU
PWGSC Project Manager/Administrateur de Projets TPSGC

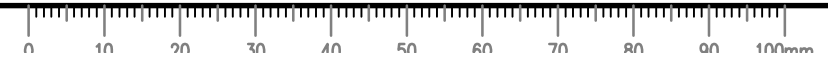
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BRIDGE RAILING DETAILS

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
5P421-15-0033	009 OF 010	A



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Project title/Titre du projet
BANFF NATIONAL PARK, ALBERTA
CASCADE RIVER BRIDGE REPLACEMENT

Approved by/Approuvé par
 DPG

Designed by/Concept par
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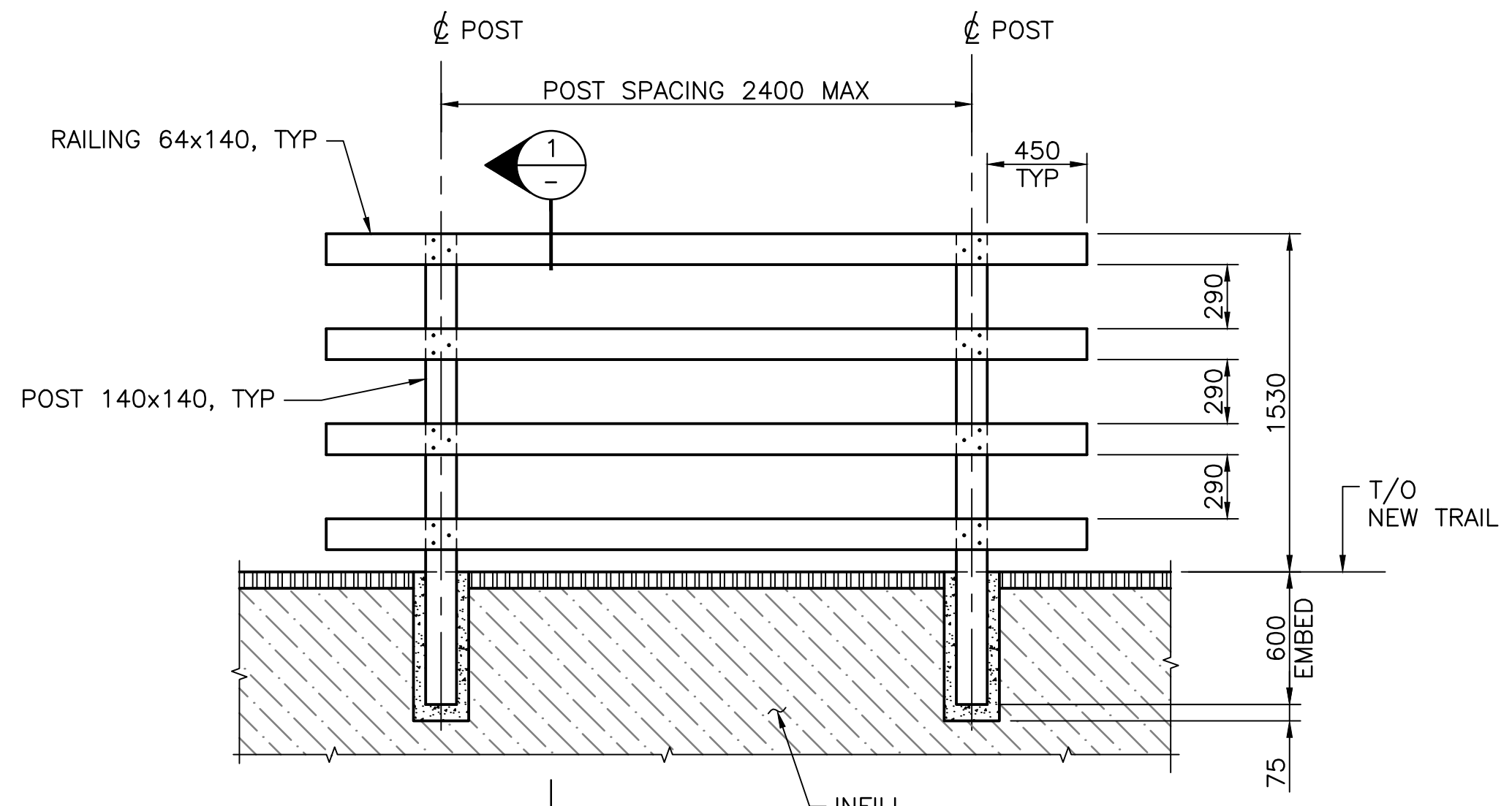
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 PWGSC Project Manager/Administrateur de Projets TPSGC

PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

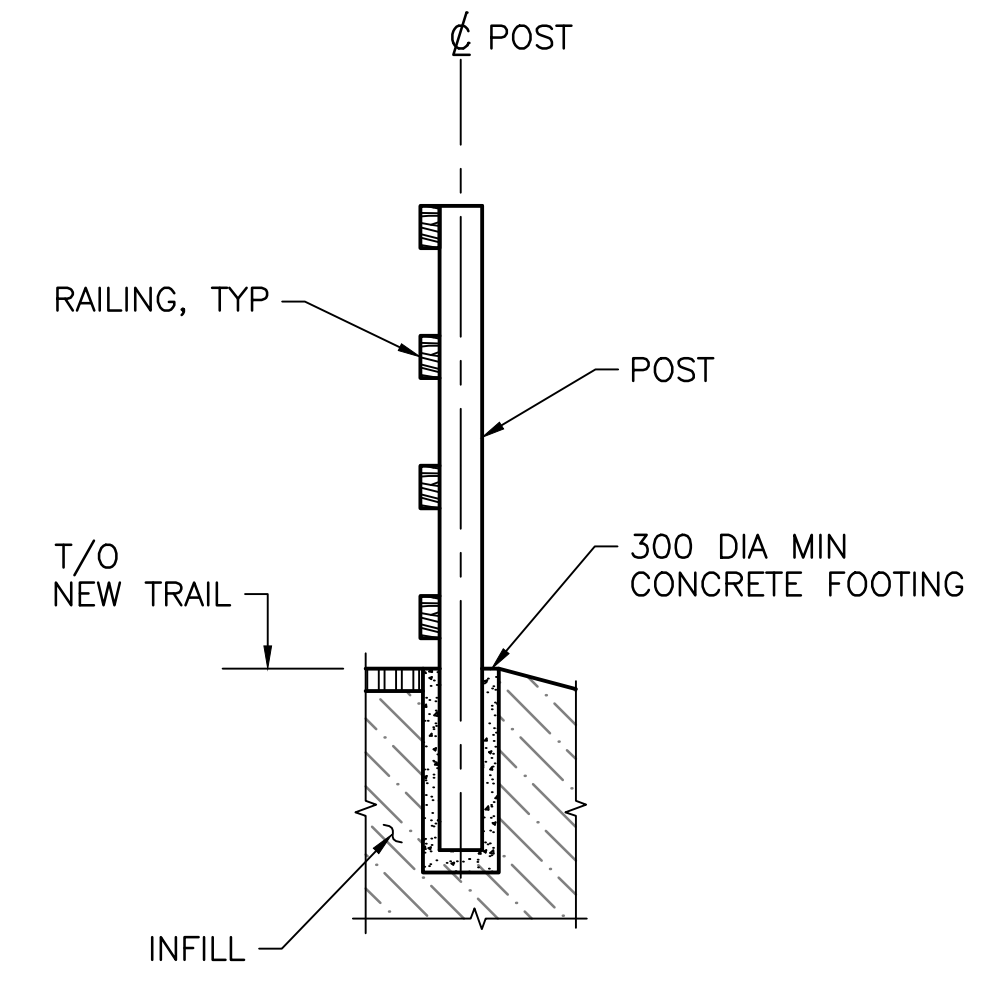
Client/client

Drawing title/Titre du dessin
APPROACH RAILING

Project No./No. du projet 5P421-15-0033	Sheet/Fauille 010 OF 010	Revision no./La Révision no. A
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APPROACH RAILING DETAIL
1:25



SECTION 1
1:25

