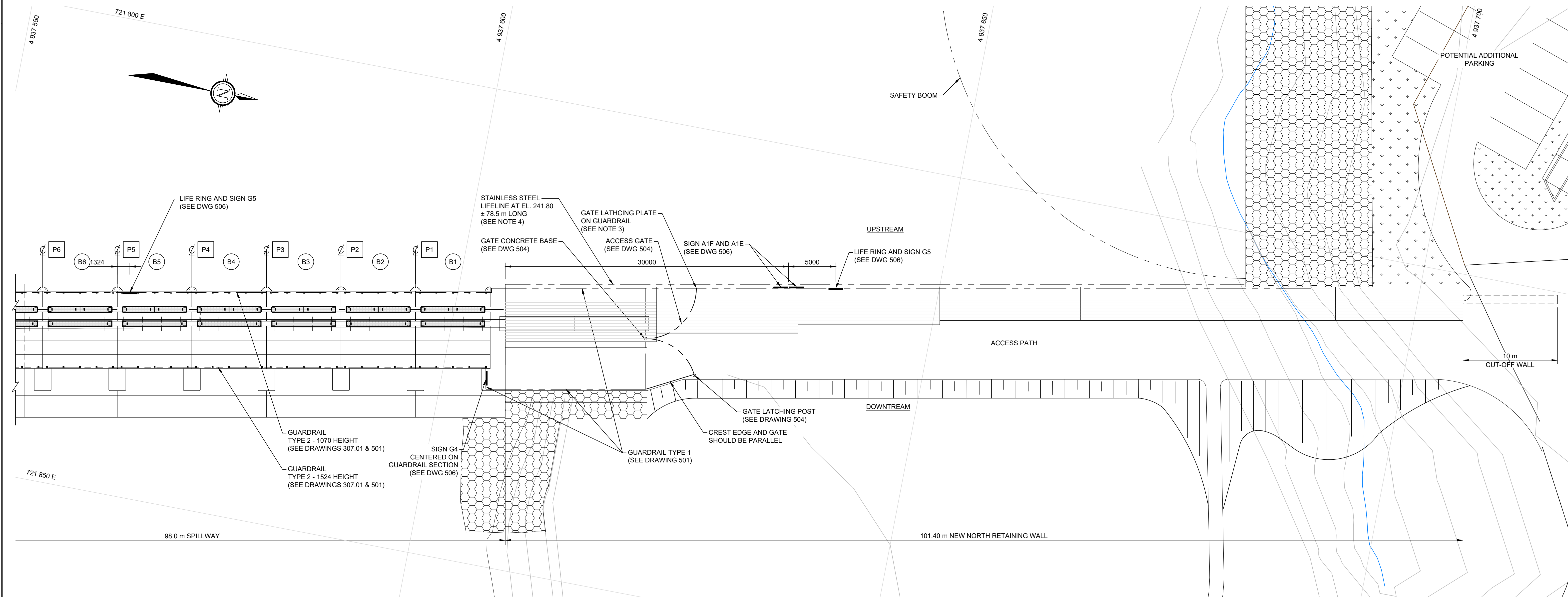


SOUTH RETAINING WALL AND SPILLWAY P7-P11
GENERAL LAYOUT PLAN

1: 200



NORTH RETAINING WALL AND SPILLWAY P1-P6
GENERAL LAYOUT PLAN

1: 200



Contract No.	Drawing Code	Serial	Rev.
HS00243	210 41DD	0500	0

- NOTES:
- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
 - CONTRACTOR TO DESIGN LAYOUT AND PROVIDE SHOP DRAWINGS FOR GUARDRAILS RESPECTING PCA STANDARDS. SEE DRAWING 501.
 - CONTRACTOR TO PROVIDE AND INSTALL LATCHING PLATE ON GUARDRAIL SO THAT IT IS ALIGNED WITH GATE LATCHING PLATE IN OPEN POSITION.
 - CONTRACTOR TO PROVIDE AND INSTALL SAFETY LIFELINE CONFORM TO LATEST EDITION OF CSA Z259.16. INSTALLATION SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS.

No.	Description	By	Date
0	FOR TENDER	Y.B	05/13/2020

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

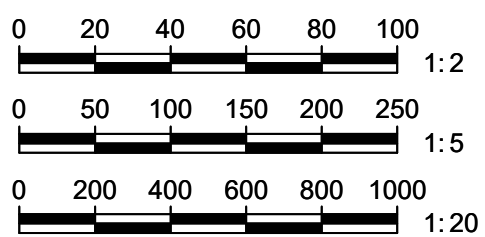
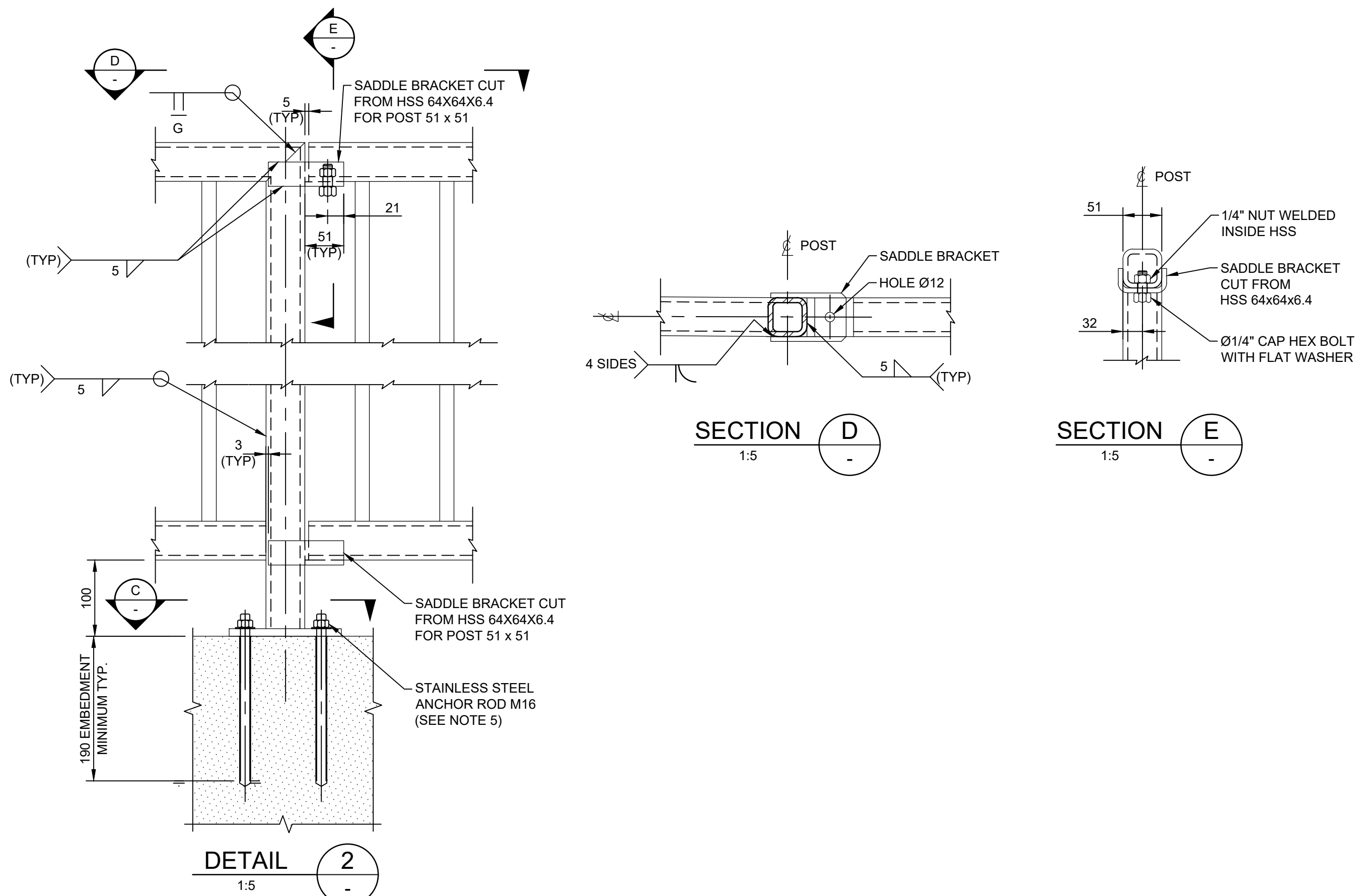
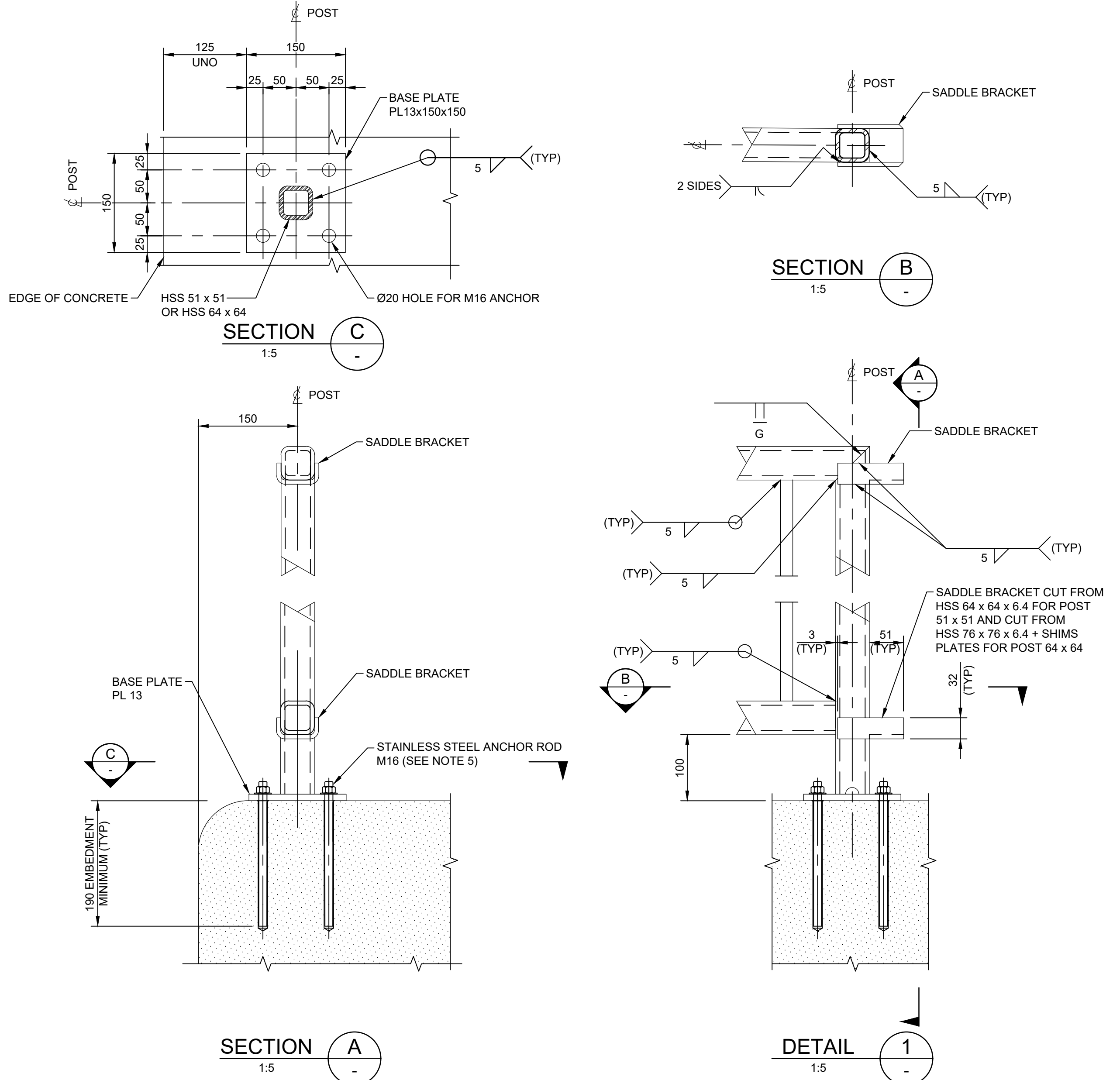
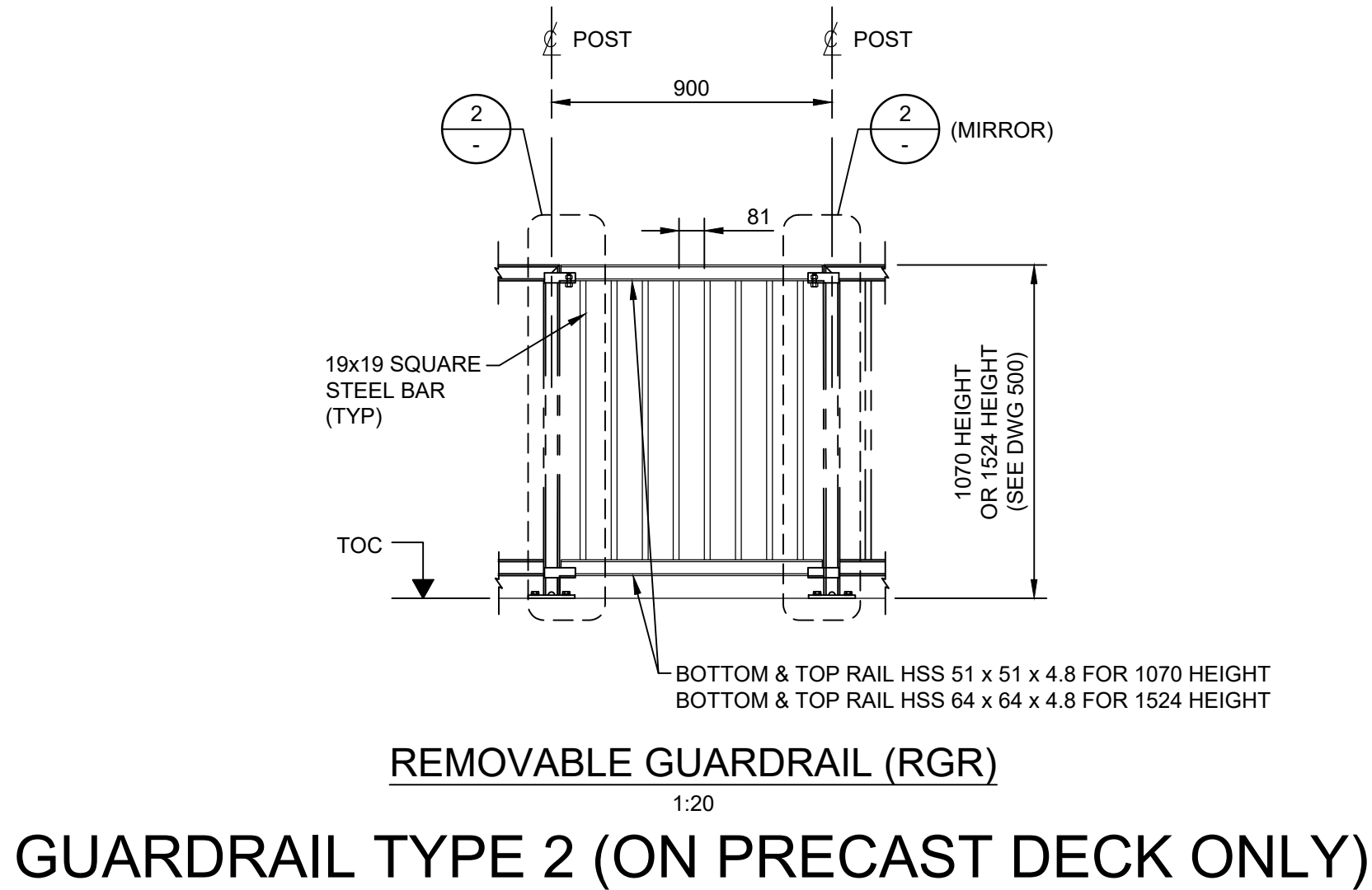
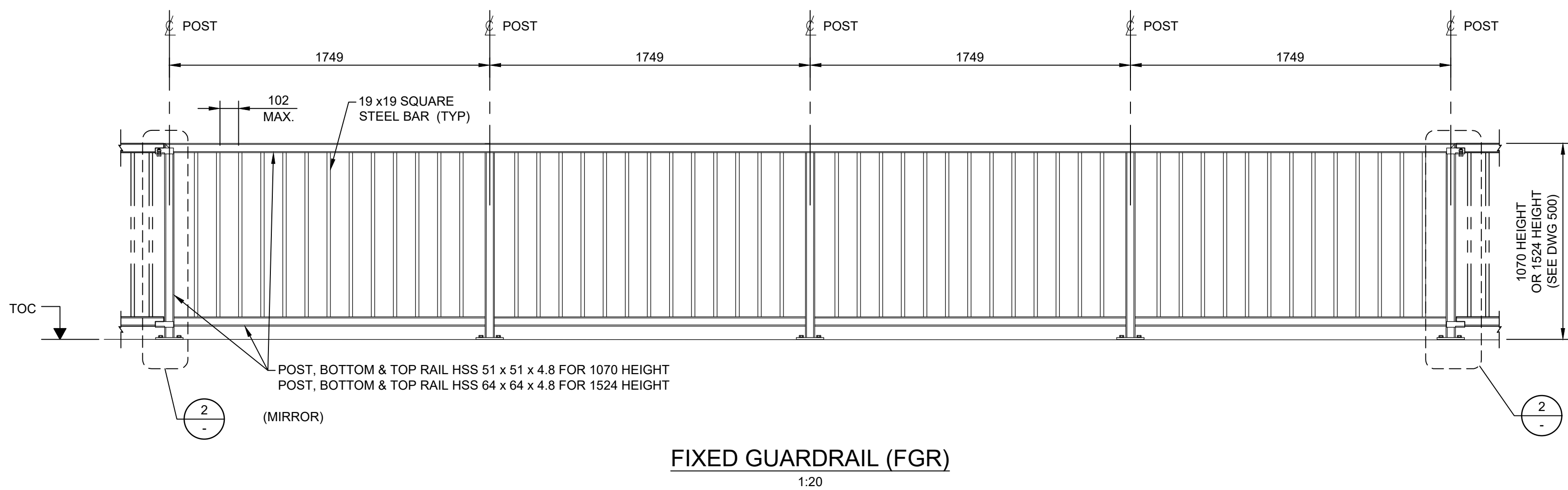
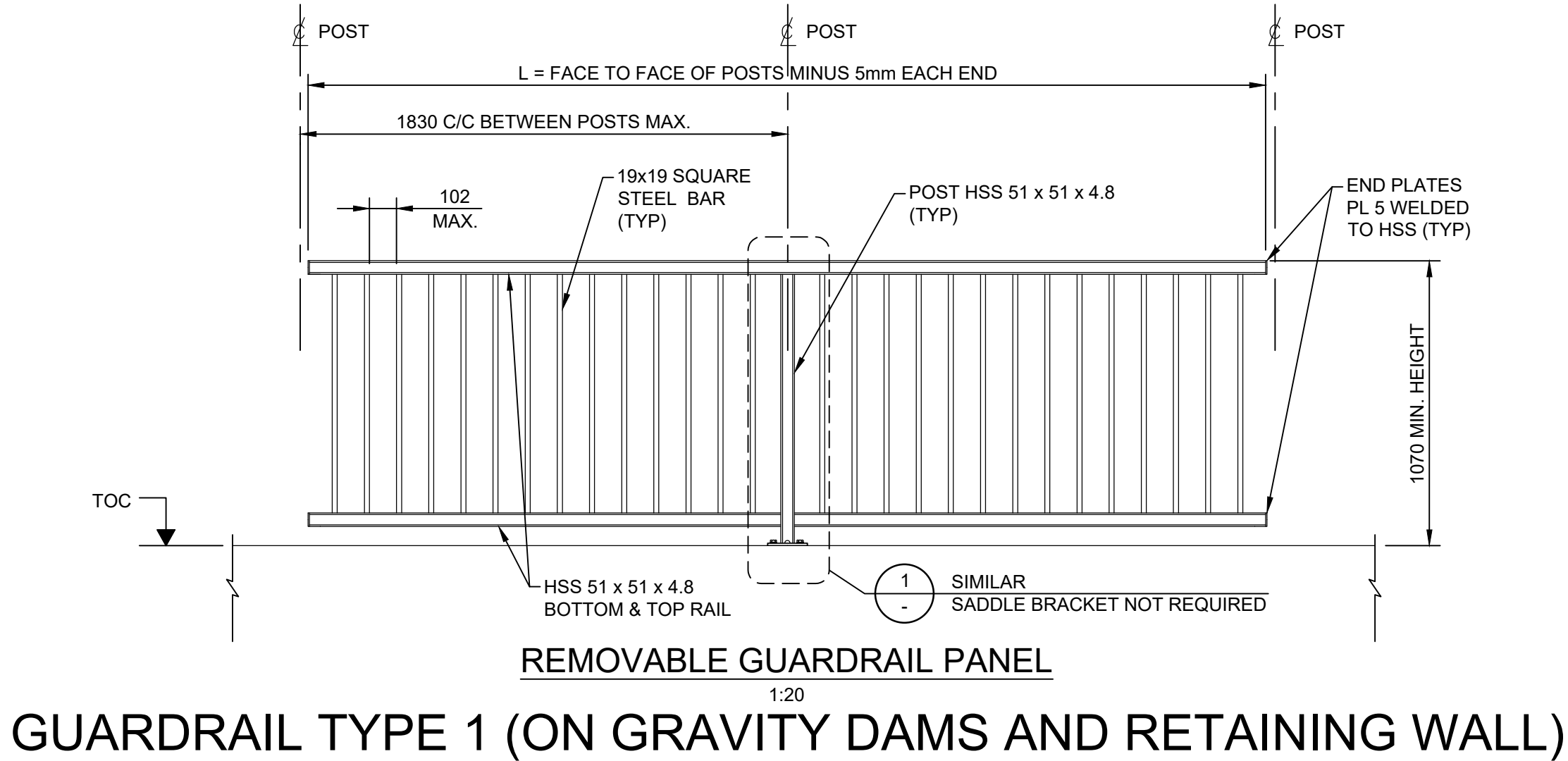
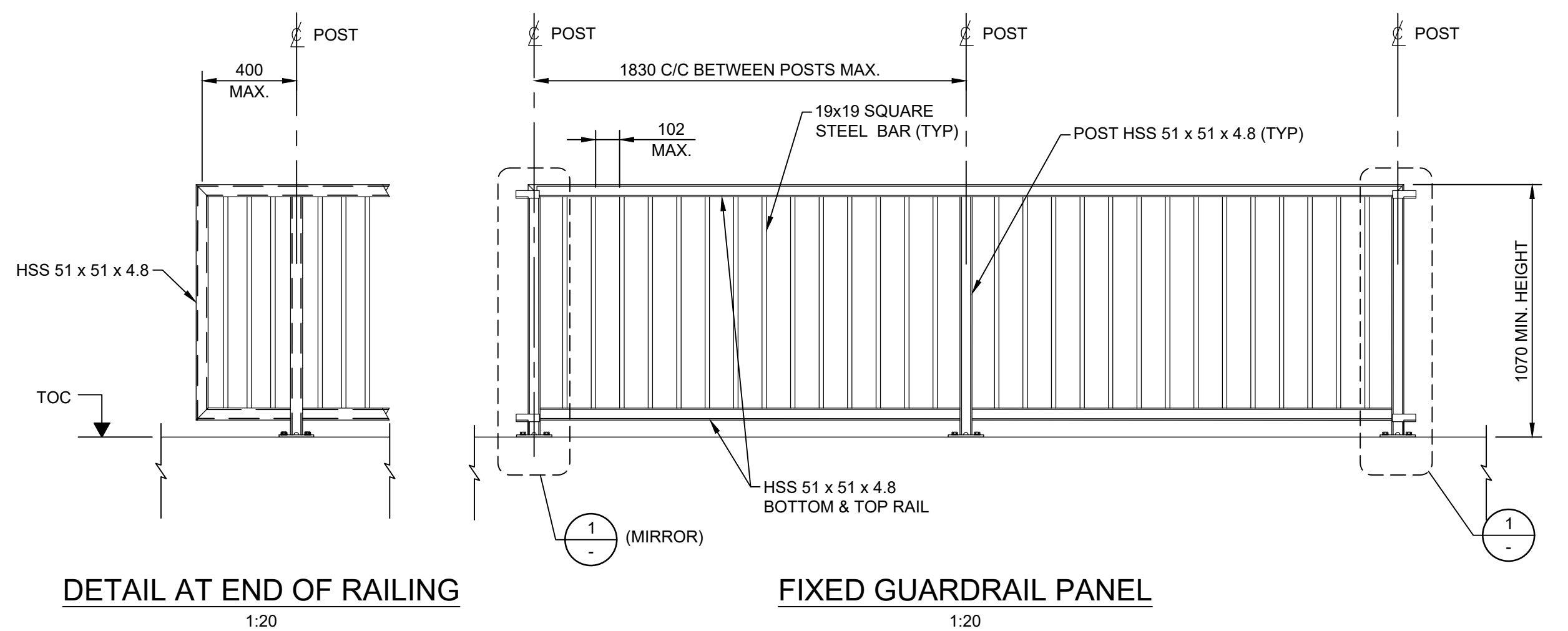
Professional Stamp

Project title / Titre du projet

TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

MISCELLANEOUS METALS
PARTS
GENERAL LAYOUT
PLAN

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par Y. BERTON	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 500	
Project Number / Numéro du projet R.076951.705	Sheet Feuille 1 of 1 de 1	



Contract No.	Drawing Code	Serial	Rev.
SH00243	210	41DD	0501 0

- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - FOR STRUCTURAL AND MISCELLANEOUS STEEL NOTES SEE DRAWING 002.
 - UNO A RUN OF GUARDRAIL SHALL CONSIST OF ALTERNATING FIXED AND REMOVABLE SECTIONS.
 - COMPLETE ASSEMBLED SECTION IS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE SPECIFICATION SECTION 09 97 01.
 - STAINLESS STEEL ANCHORS SHALL CONFORM TO ASTM F593 AISI TYPE 316, FIXED WITH PRE-PACKAGED TWO COMPONENTS ADHESIVE CONSISTING OF VINYL METACRYLATE RESIN. SUBMIT ANCHORS AND ADHESIVE DATA TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW.
 - BASE PLATES SHALL BE LEVELED TO PLUMB GUARDRAIL POSTS AS REQUIRED. WHERE SHIM AMOUNT EXCEEDS 13 mm, USE OF LEVELING NUT AND A BED OF NON-SHRINKABLE GROUT OF THICKNESS MIN 25 mm TO MAX 32 mm SHALL BE USED AT UNDERSIDE OF PLATE. SLOPE SIDES OF GROUT BED AT 1:1 DOWN TO SURFACE.

No.	Description	By	Date
0	FOR TENDER	Y.B	05/13/2020

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

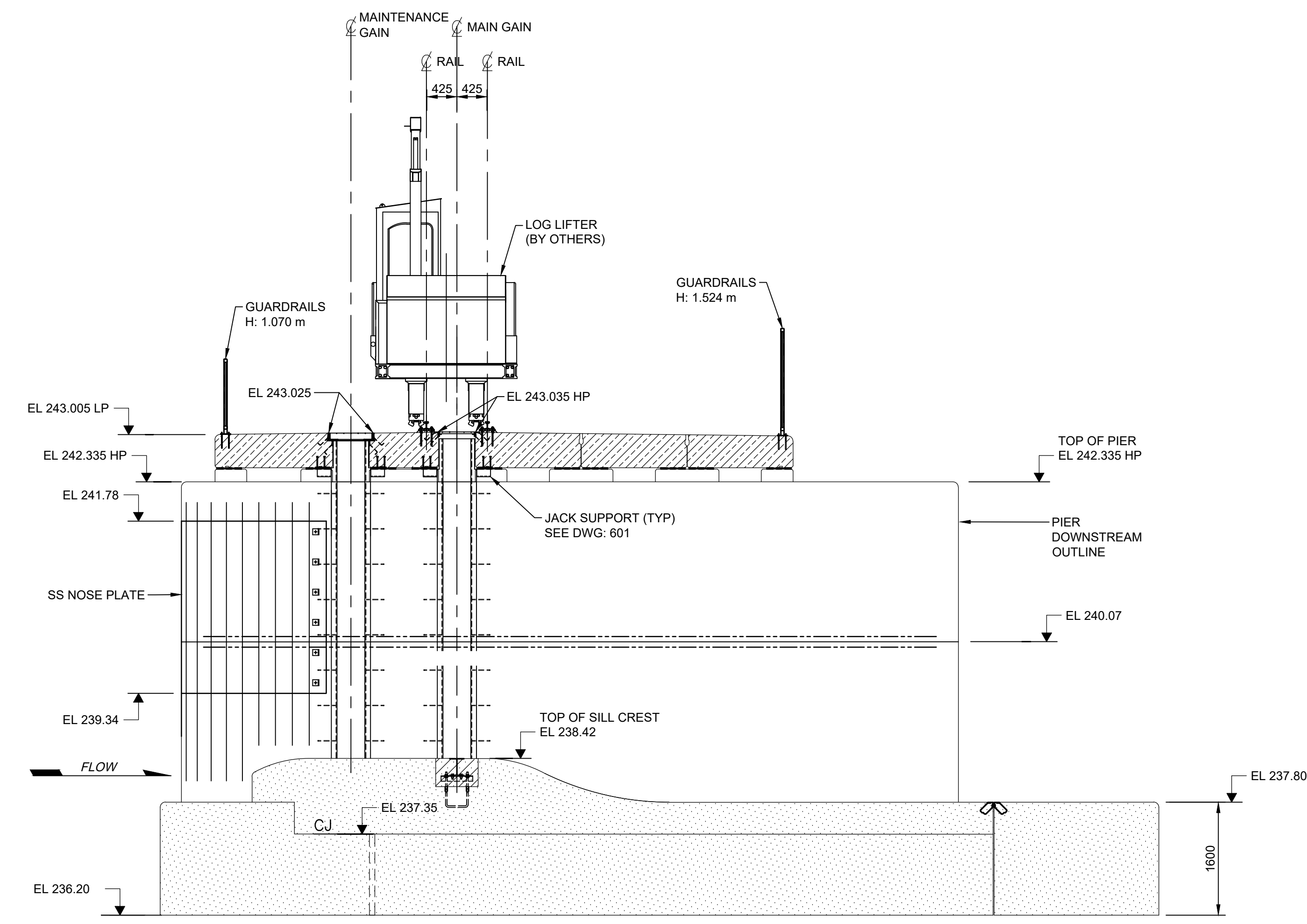
A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

Professional Stamp

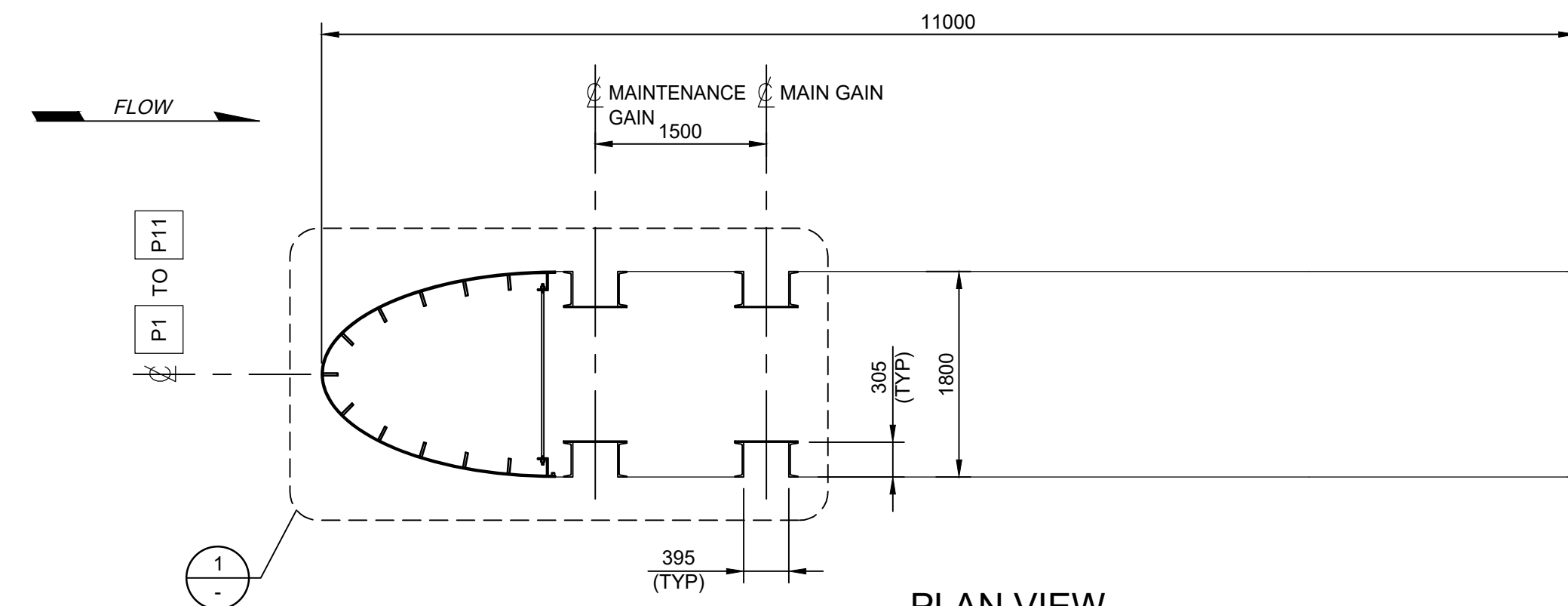
Project title / Titre du projet
**TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
REHABILITATION**

Drawing title / Titre du dessin
**MISCELLANEOUS METALS
PARTS
GUARDRAILS AND LADDERS
SECTIONS AND DETAILS**

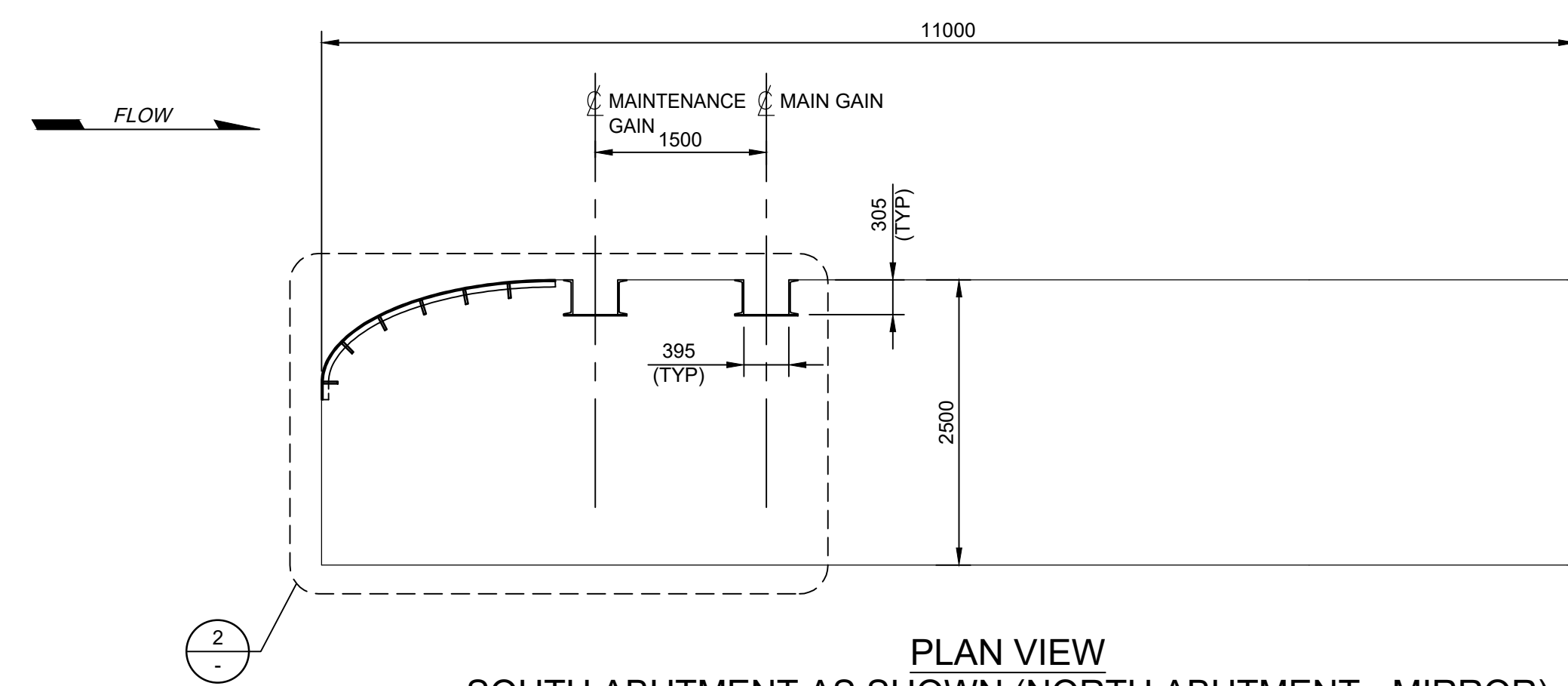
Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par Y. BERTON	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 501	Sheet Feuille 1 of 1
Project Number / Numéro du projet R.076951.705		



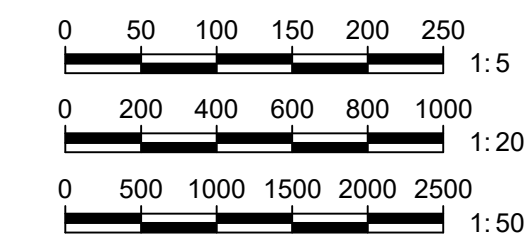
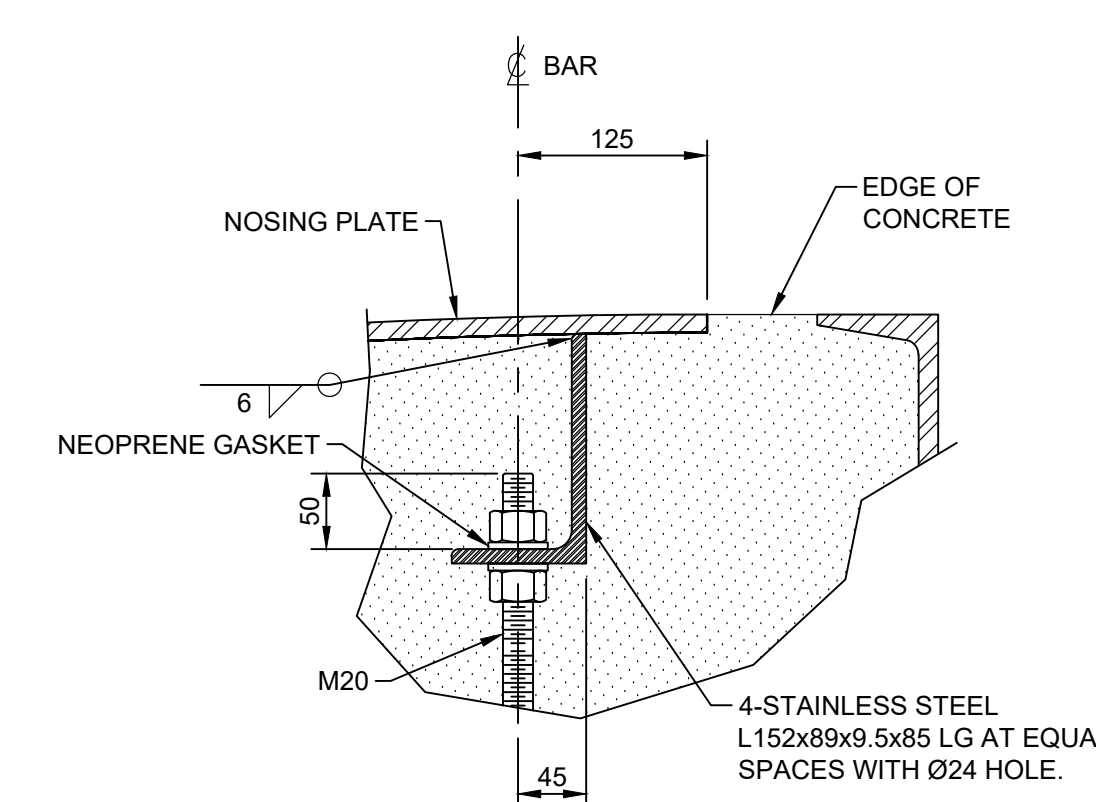
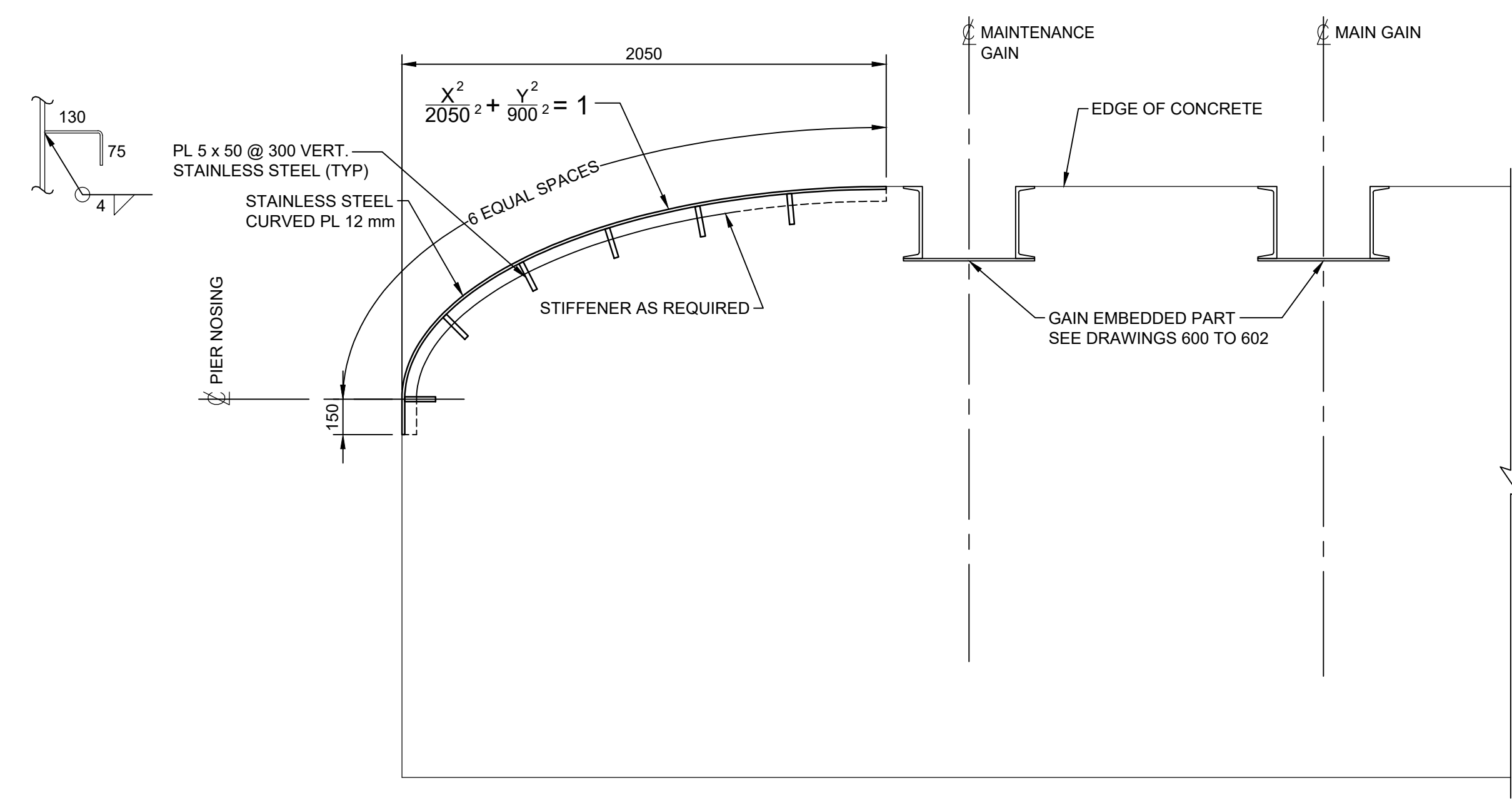
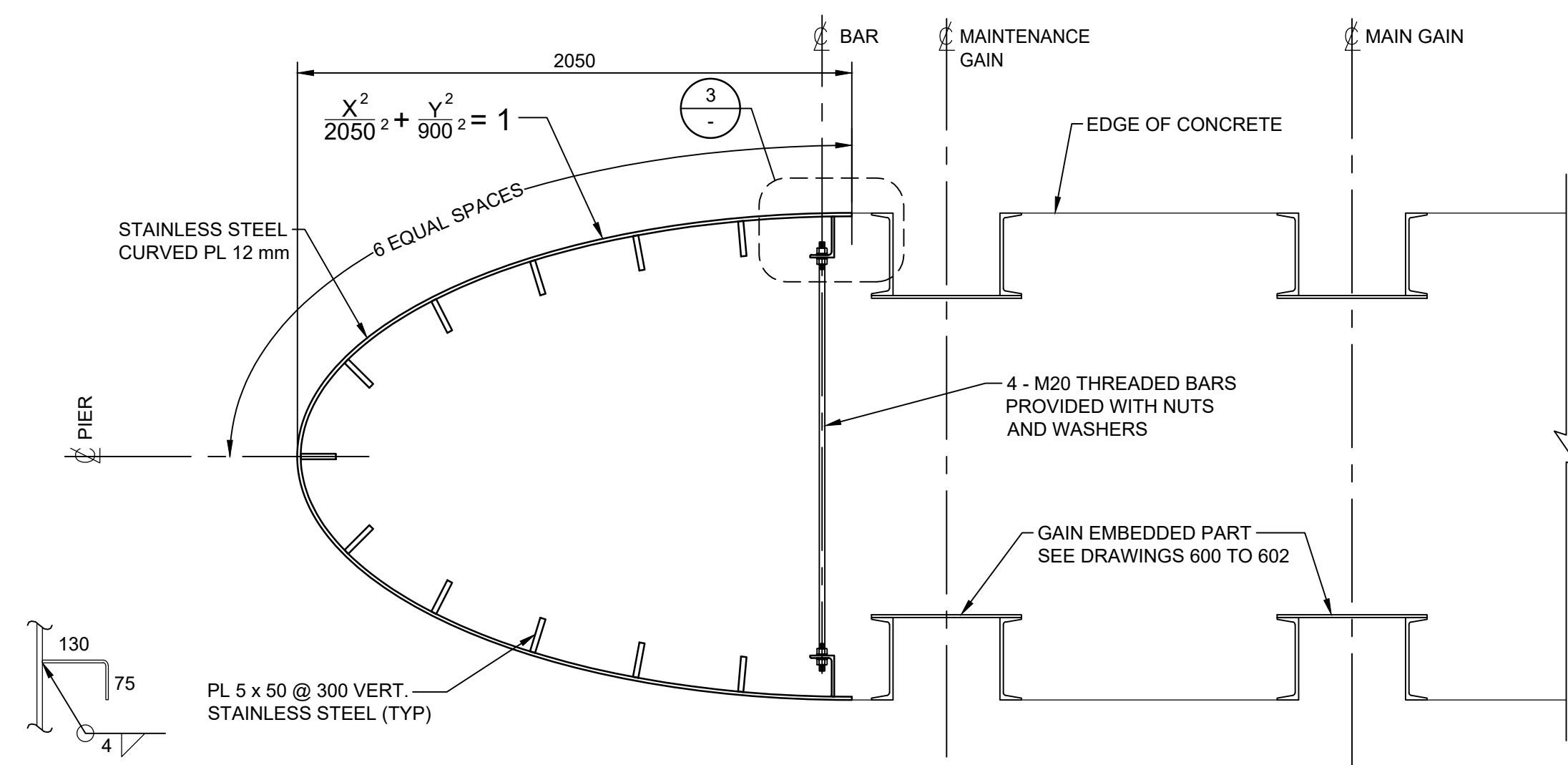
ELEVATION
INTERMEDIATE PIERS
1:50



PLAN VIEW
INTERMEDIATE PIERS P1 TO P11
1:50



PLAN VIEW
SOUTH ABUTMENT AS SHOWN (NORTH ABUTMENT - MIRROR)
1:50



Public Services and Procurement Canada
Services publics et Approvisionnement Canada

Ontario Region
Heritage Canals and Engineering Works
Région de l'Ontario
Canaux historiques et travaux d'ingénierie

Parks
Canada

Parcs
Canada

Canada

CIMA+

Contract No.	Drawing Code	Serial	Rev.
HS00243	210 41DD	502	0

NOTES:

- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS SEE DRAWING 002.
- STAINLESS STEEL MATERIAL AND WELDING AS PER SPECIFICATION SECTION 05 50 00.
- PIER NOSING STAINLESS STEEL SHALL HAVE A ROUGH AND DULL FINISH #1 AS PER ASTM A480.

0	FOR TENDER	Y.B	05/13/2020
No.	Description	By For	Date

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A

B

A Detail number
Numéro du détail
B Location dwg. number
Numéro sur dessin

Professional Stamp

Project title / Titre du projet

TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

Drawing title / Titre du dessin

MISCELLANEOUS METALS
PARTS
GAIN AND PIER NOSING
PLAN, ELEVATION & DETAILS

Drawn by / Dessiné par	Designed by / Conçu par
H. BOIVIN	M. SAIDOU P.Eng.
Verified by / Vérifié par	Approved by / Approuvé par
Y. BERTON P.Eng.	S. VITTECOQ P.Eng.
Drawing Date / Date du dessin	Drawing Number / Numéro du Dessin
05/13/2020	502
Project Number / Numéro du projet	Sheet Feuille
R.076951.705	1 of 1

NOTES:

- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
- FOR STRUCTURAL STEEL SEE SPECIFICATION SECTION 05 50 00.
- WEIGHT OF EACH MAINTENANCE GAIN COVER PANEL: 570 kg.
- BENT STEEL ROD SHALL CONFORM TO CSA G40.21 GRADE 400W.
- ALL GRATING AND STEEL SHALL BE HOT DIP GALVANIZED WITH THE EXCEPTION OF RAILS AFTER ASSEMBLY AND FABRICATION.
- SUPPLY OF RAIL CLIPS & THEIR ACCESSORIES BY THE CONTRACTOR. ASSEMBLY SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS. THE LOWER PART OF THE RAIL CLIP SHALL BE WELDED AS PER REQUIREMENTS OF THE MANUFACTURER.
- LIFTING SLINGS USED AT LIFTING POINT SHALL BE BETWEEN 45° AND 90° FROM HORIZONTAL.
- FISH PLATE REPRESENTED FOR INDICATIVE PURPOSES. INSTALL AS PER MANUFACTURER RECOMMENDATION.

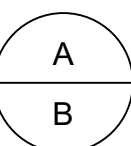
DESIGN LOADS

- COVERS ARE DESIGNED FOR THE FOLLOWING LOADS (UNFACTORED):
- MAIN GAIN COVERS:
UNIFORMLY DISTRIBUTED LIVE LOAD OF 10 kPa.
 - MAINTENANCE COVERS:
FULL HIGHWAY LOAD AS PER CSA-S6 (CL-625 TRUCKS)

No.	Description	By	Date
0	FOR TENDER	Y.B	05/13/2020

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.



A Detail number
Numéro du détail
B Location dwg. number
Numéro sur dessin

Professional Stamp

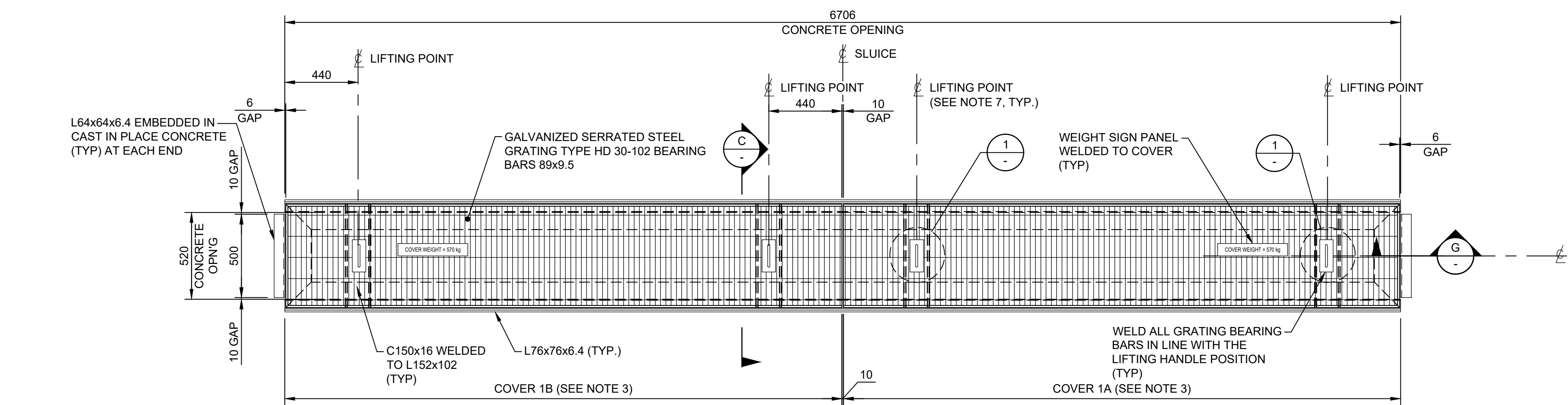
Project title / Titre du projet

TRENT-SEVERN WATERWAY
DAM AT LOCK 25 - SAWERS CREEK
RECONSTRUCTION

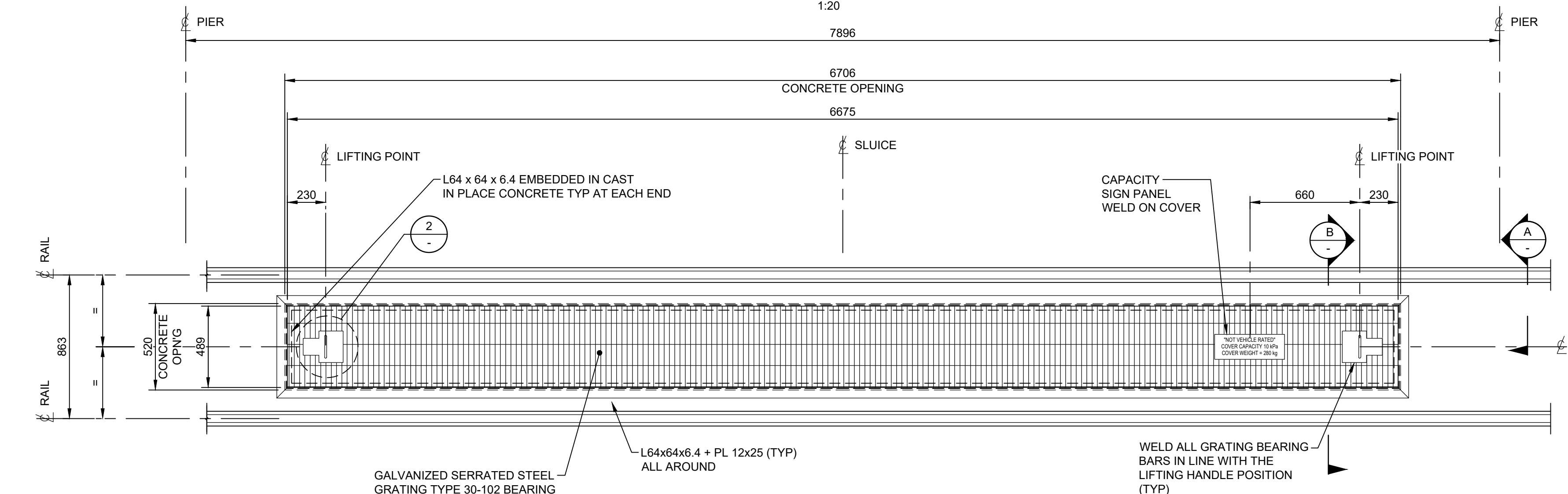
Drawing title / Titre du dessin

MISCELLANEOUS METALS
PARTS
GRATING, COVERS & RAILS
PLANS, SECTIONS & DETAILS

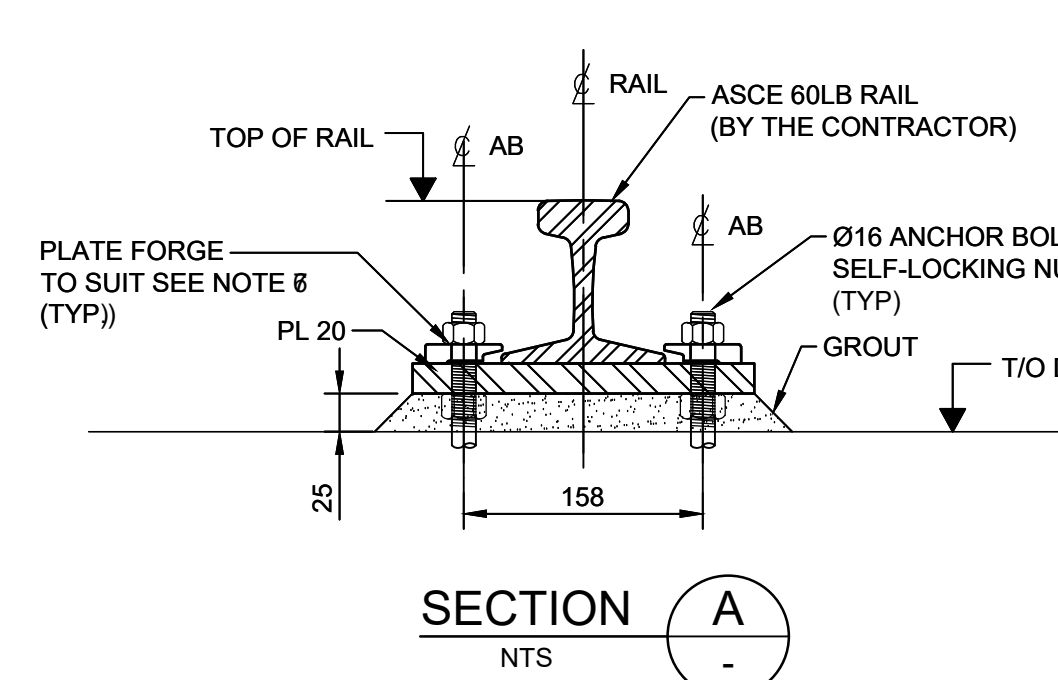
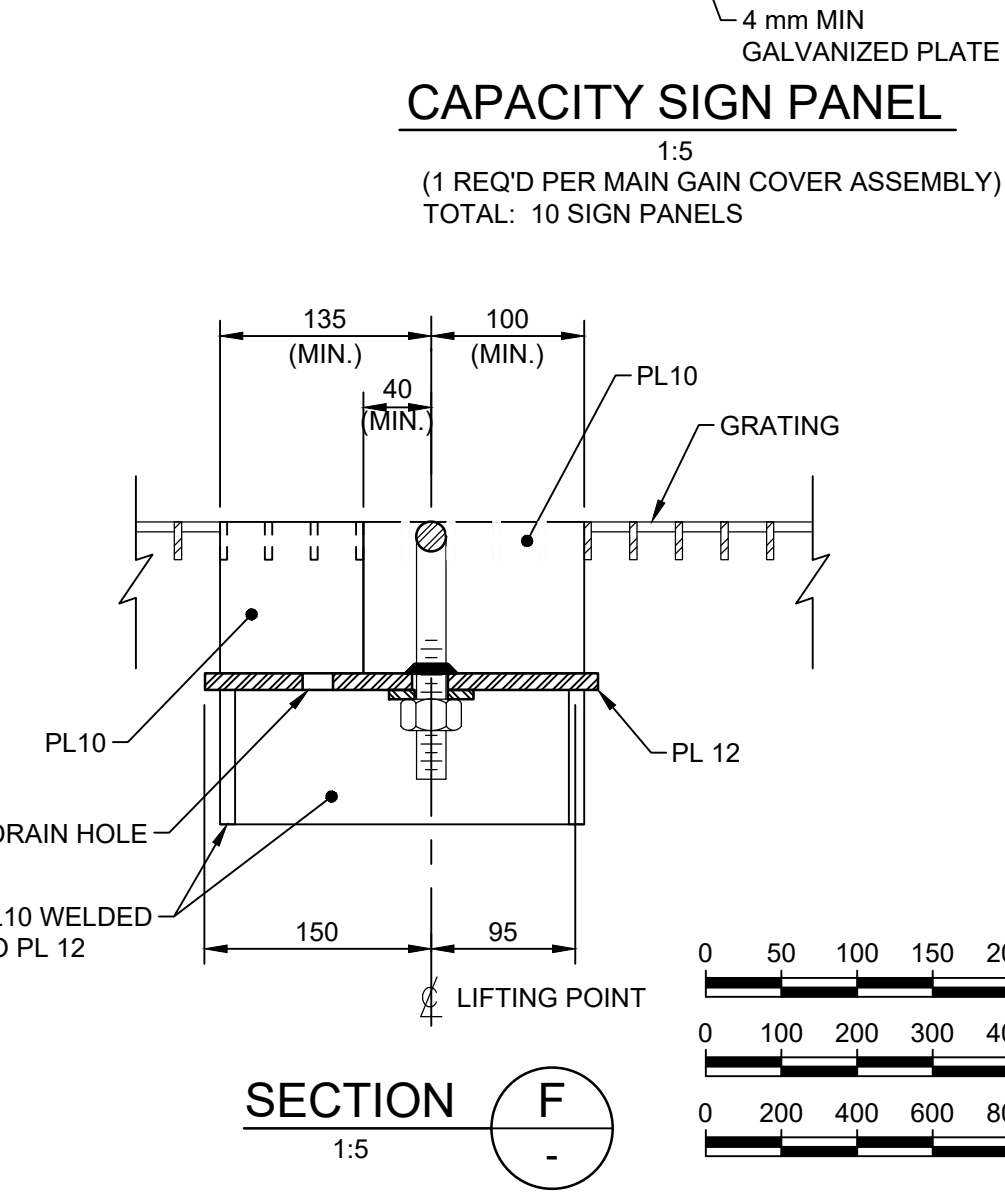
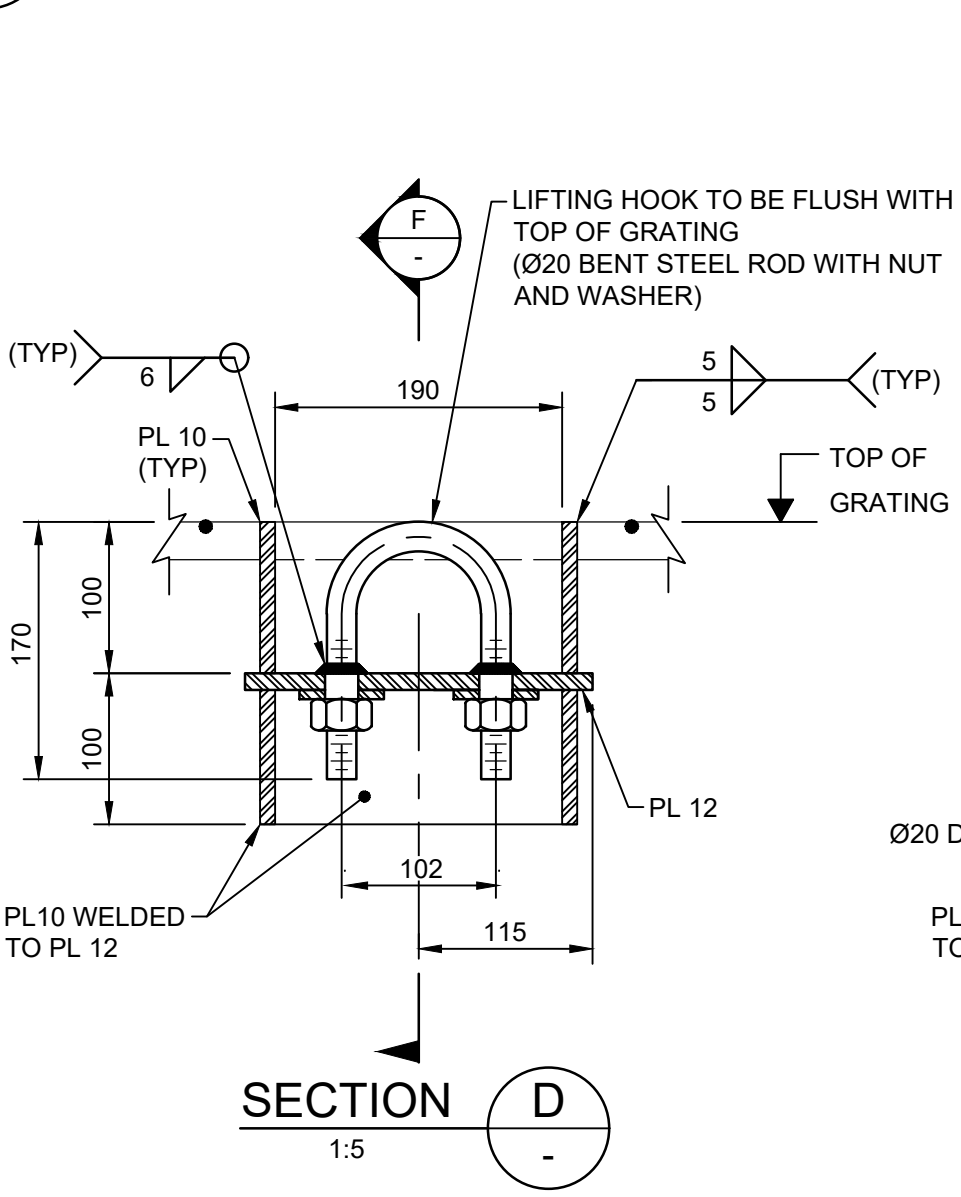
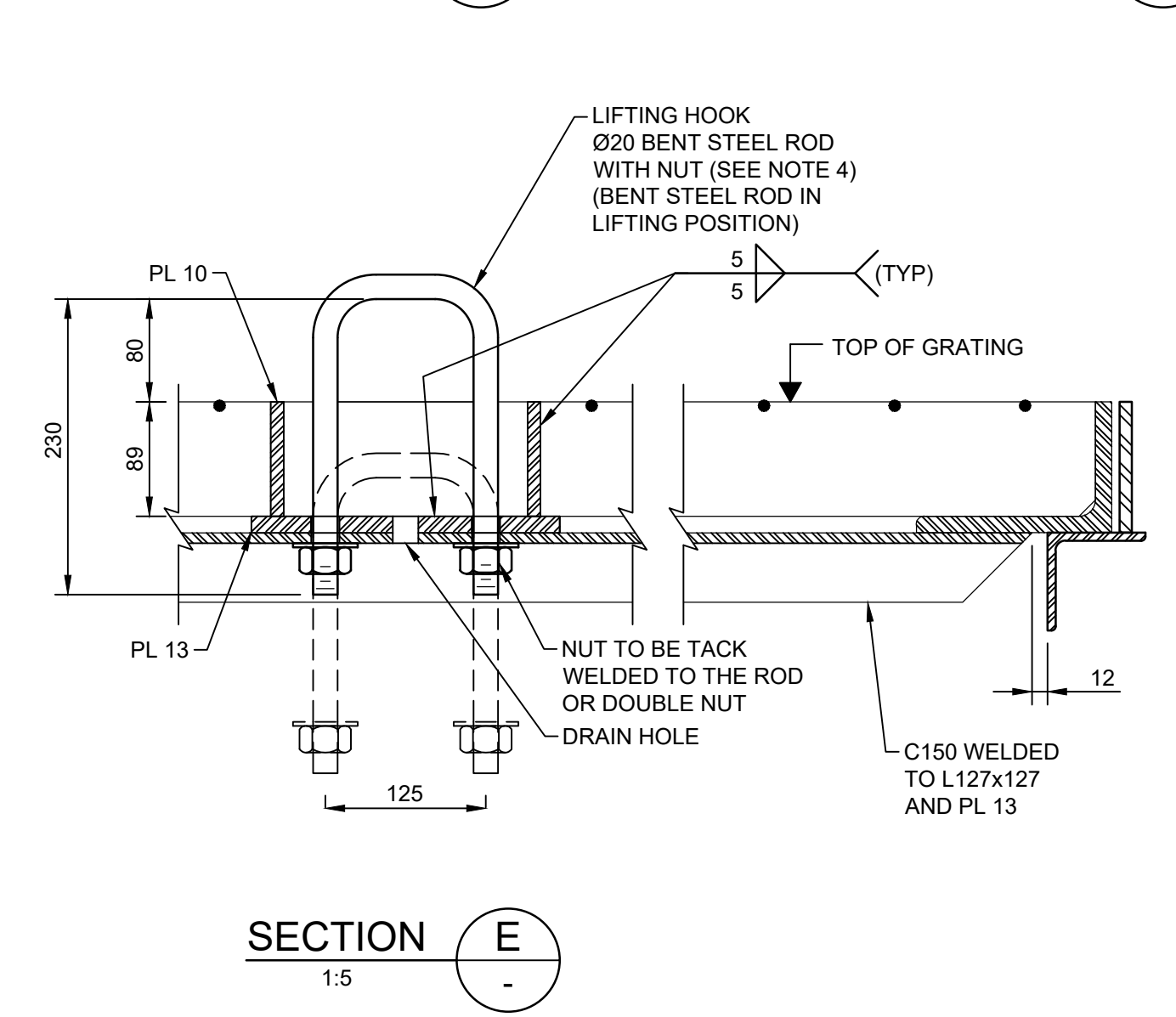
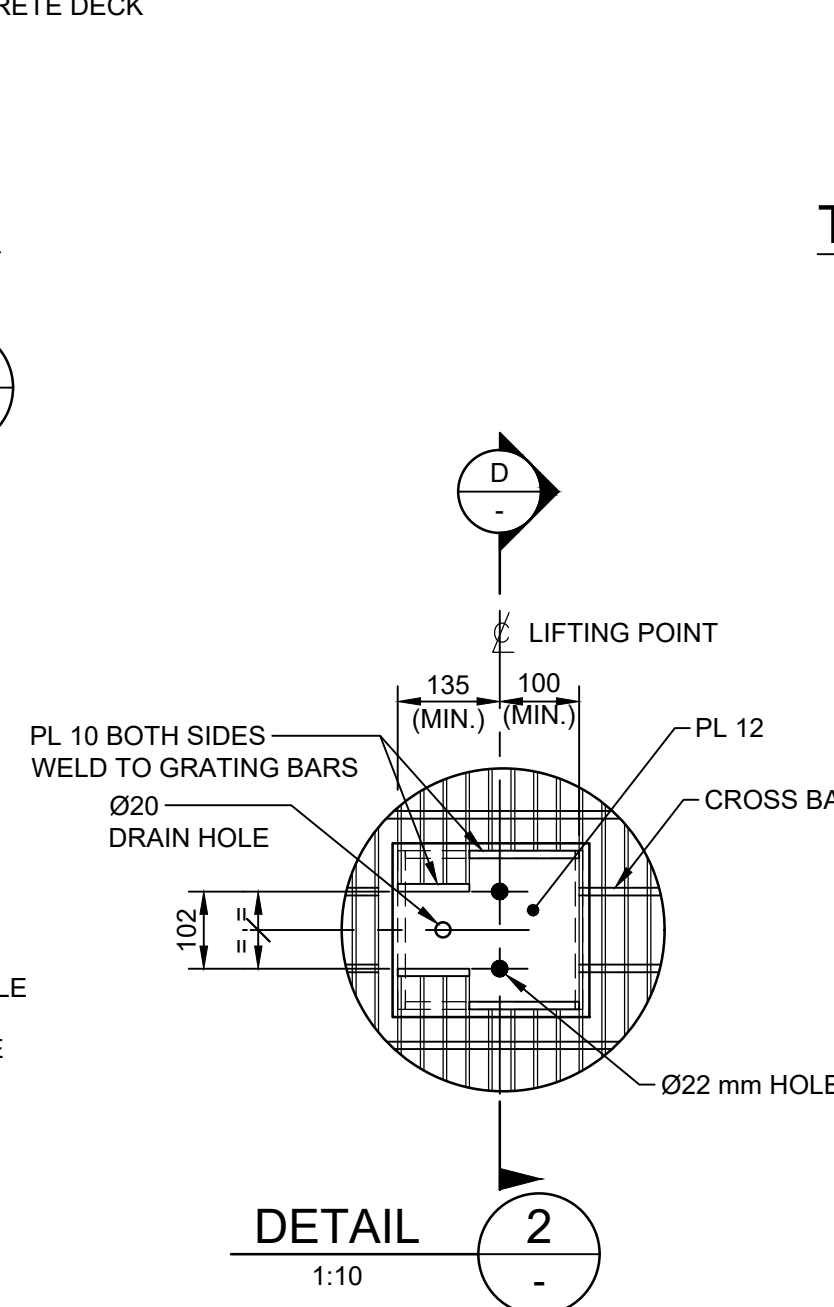
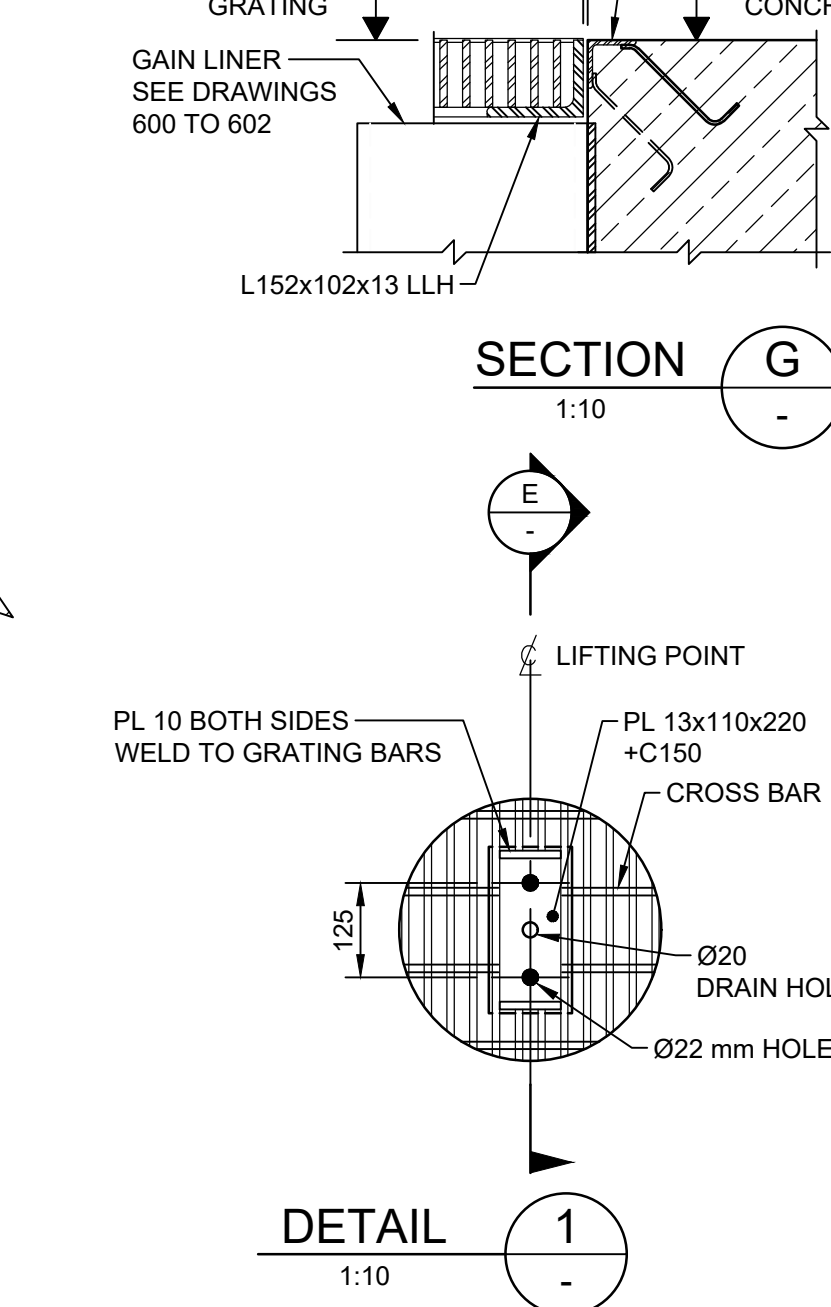
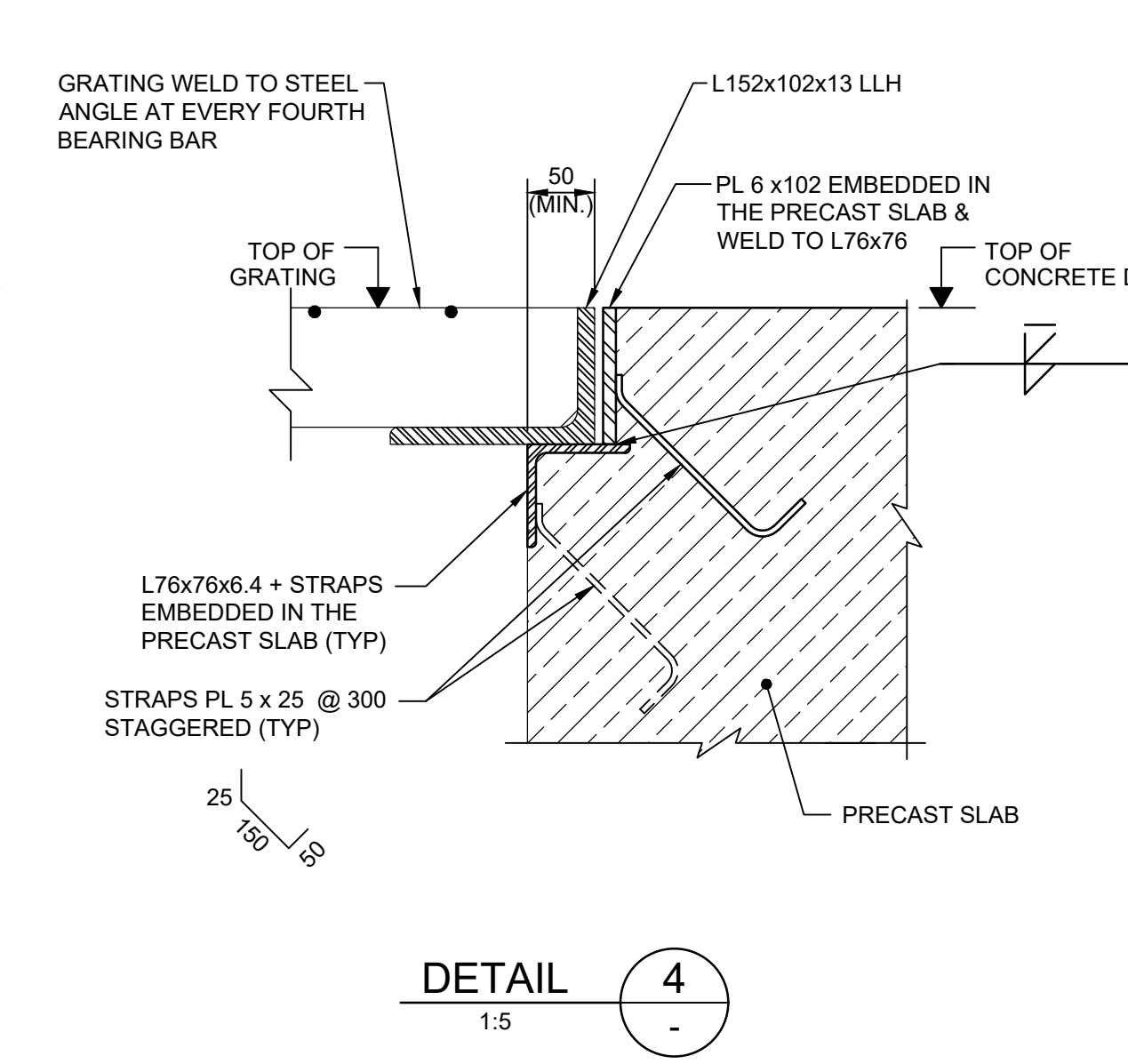
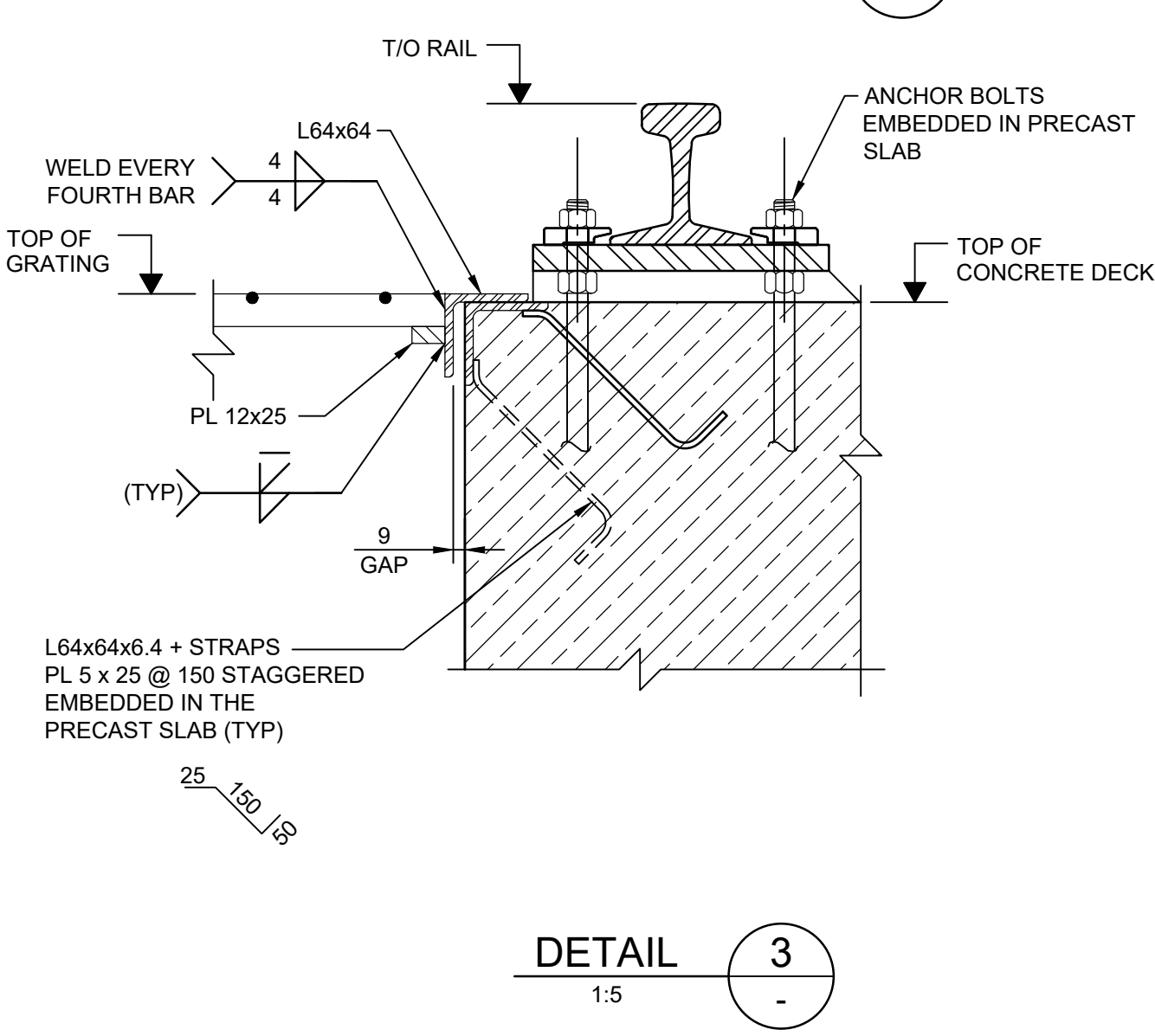
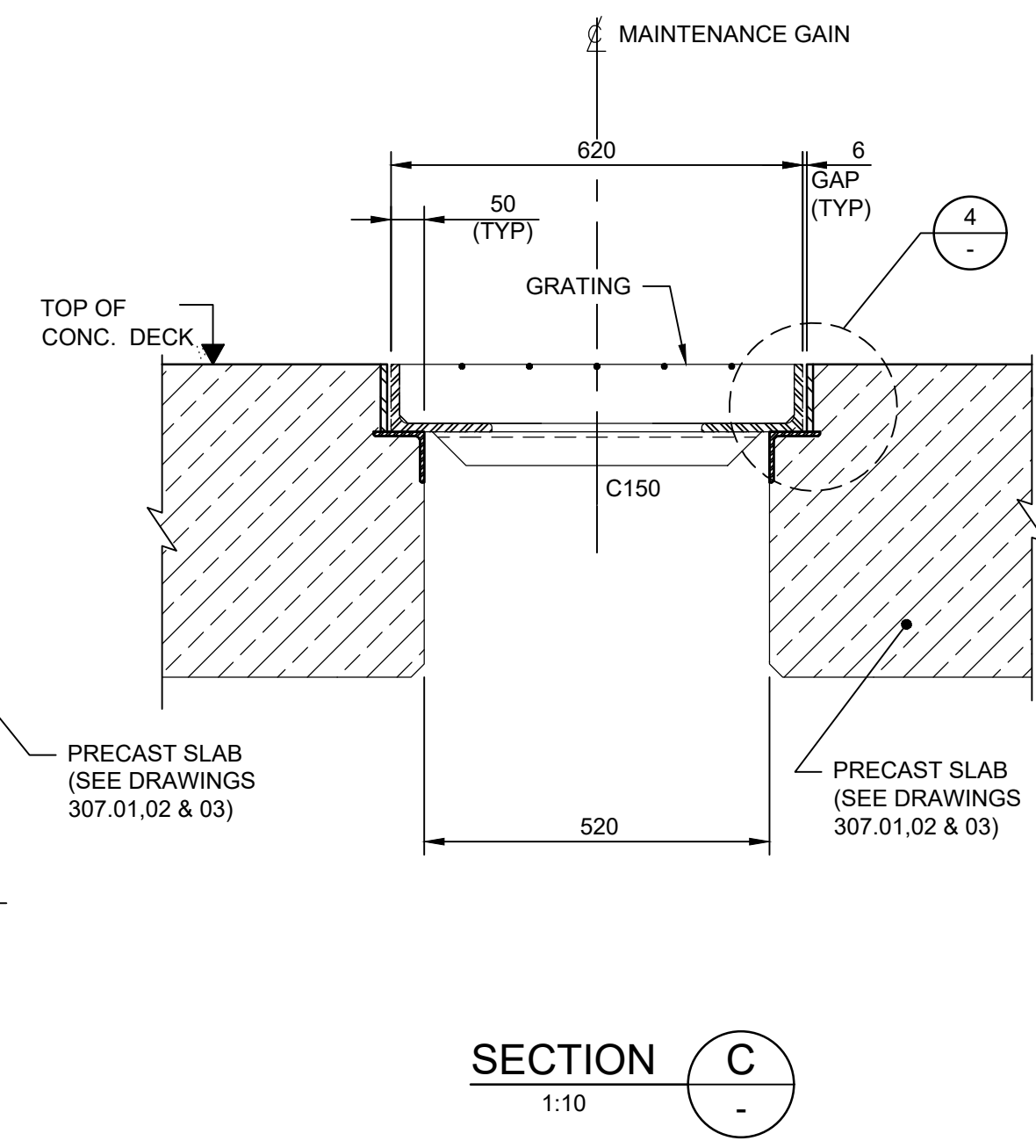
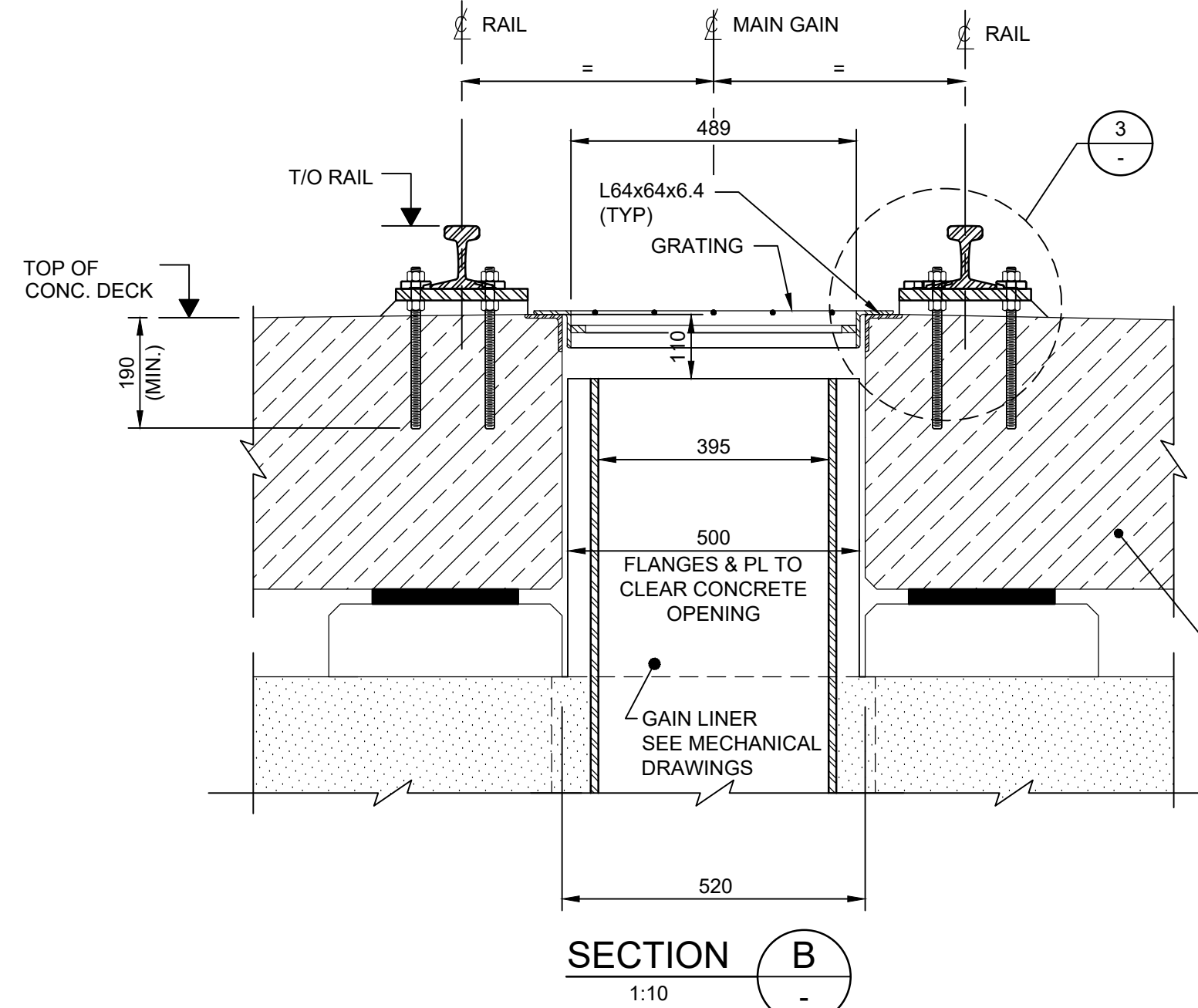
Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par Y. BERTON	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Project Number / Numéro du projet R.076951.705	Drawing Number / Numéro du Dessin 503
		Sheet Feuille 1 of 1



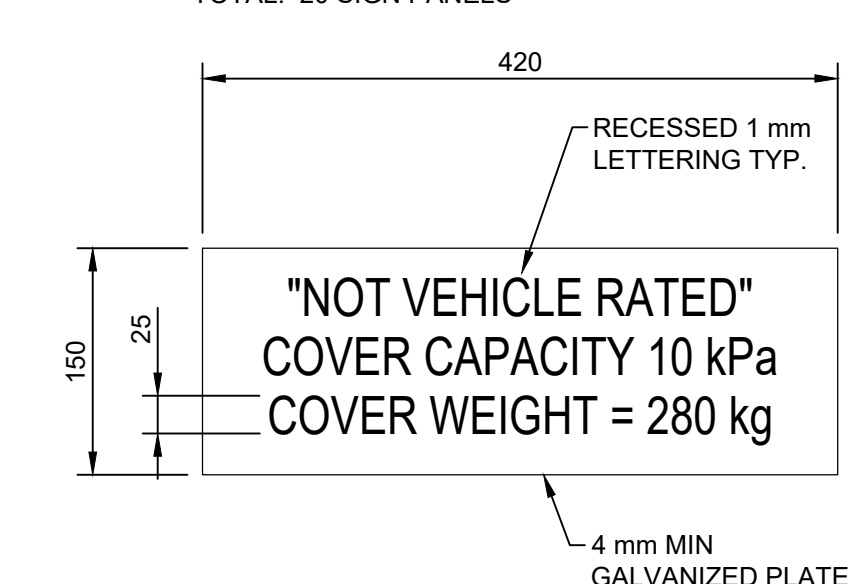
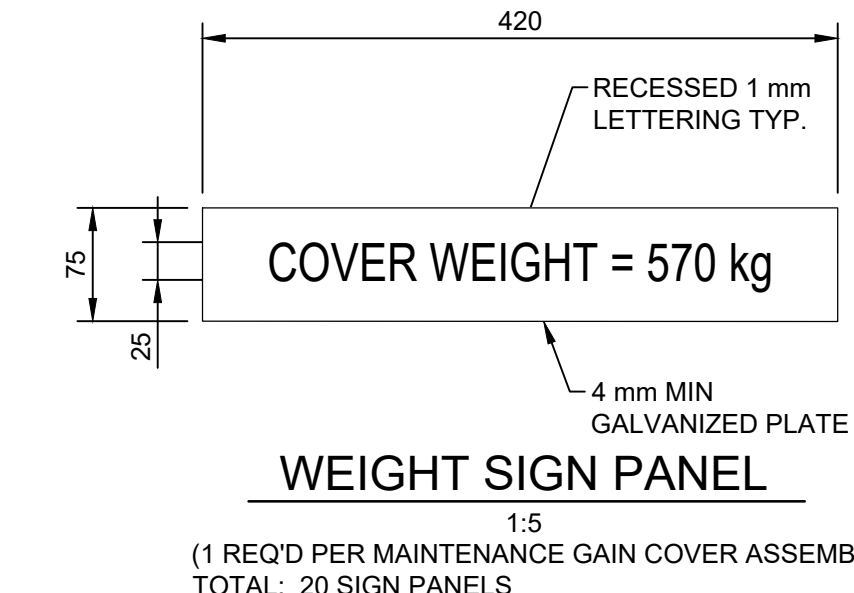
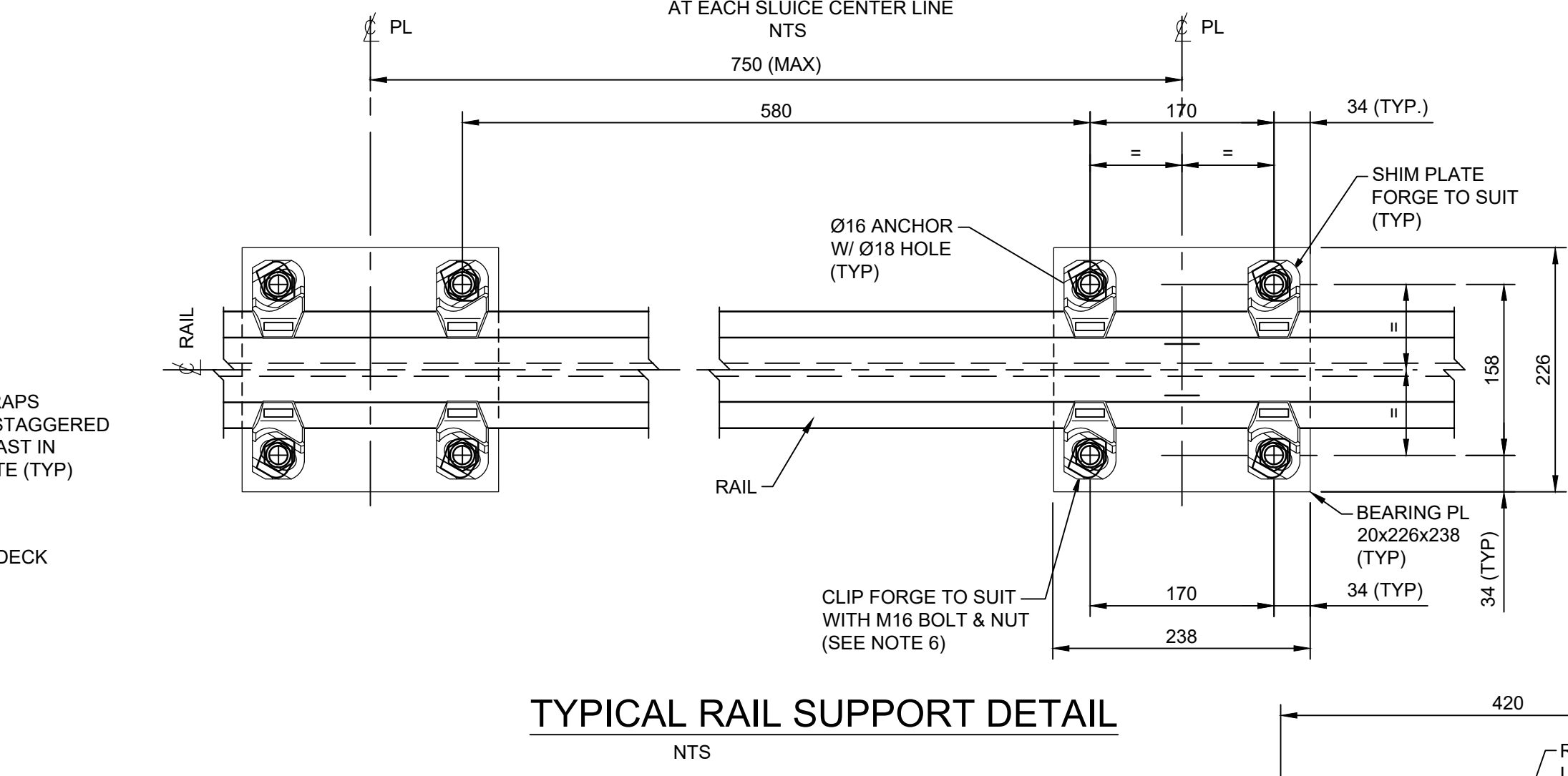
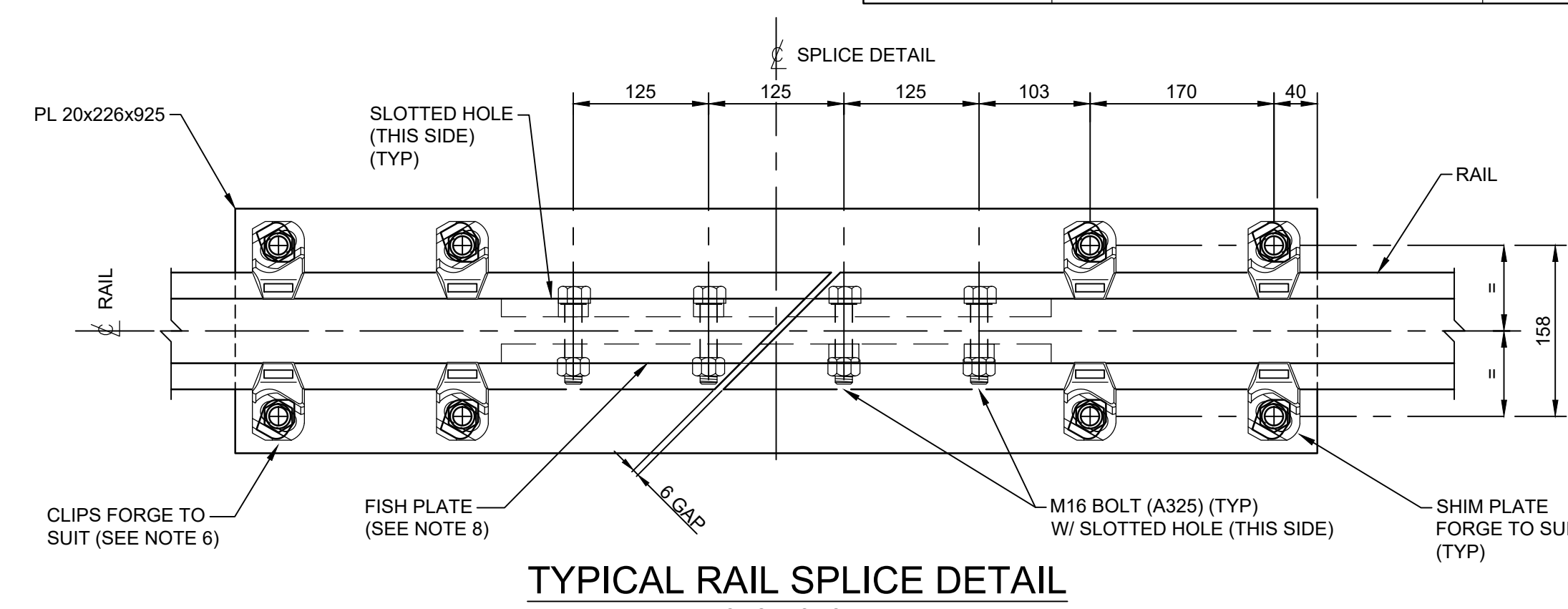
COVER TYPE 1 - MAINTENANCE GAIN - PLAN
(FOR ALL SLUICES QUANTITY 12 REQUIRED)
1:20



COVER TYPE 2 - MAIN GAIN - PLAN
(FOR ALL SLUICES QUANTITY 12 REQUIRED)
1:20



LOG LIFTER RAIL TOLERANCES			
ITEM	FIGURE	OVER ALL TOLERANCE	MAXIMUM RATE OF CHANGE
CRANE SPAN (L)		L ≤ 15.24 m A = 5 mm	6 mm IN 6.10 m
STRAIGHTNESS (B)		B = 10 mm	6 mm IN 6.10 m
ELEVATION (C)		C = 10 mm	6 mm IN 6.10 m
RAIL TO RAIL ELEVATION (D)		L ≤ 15.24 m D = ±5 mm	6mm IN 6.10 m



Contract No.	Drawing Code	Serial	Rev.
HS000243	003D	41DD	0504 0

- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - COMPLETE ASSEMBLED SECTION IS TO BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SPECIFICATION SECTION 09 97 01.
 - STAINLESS STEEL ANCHORS SHALL CONFORM TO ASTM F593 AISI TYPE 316, FIXED WITH PRE-PACKAGED TWO COMPONENTS ADHESIVE CONSISTING OF VINYL METACRYLATE RESIN. SUBMIT ANCHORS AND ADHESIVE DATA TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW.
 - BASE PLATES SHALL BE LEVELED TO PLUMB GUARDRAIL POSTS AS REQUIRED. WHERE SHIM AMOUNT EXCEEDS 13 mm, USE OF LEVELING NUT AND A BED OF NON-SHRINKABLE GROUT OF THICKNESS MIN 25 mm TO MAX 32 mm SHALL BE USED AT UNDERSIDE OF PLATE. SLOPE SIDES OF GROUT BED AT 1:1 DOWN TO SURFACE.
 - ACCESS GATE STEEL BARS SHALL BE POSITIONED TO ENSURE THAT WHEN THE GATE IS FULLY OPENED, THEY ALIGN WITH VERTICAL STEEL BARS OF THE GUARDRAIL. FABRICATION SHOP MOCK-UPS ARE TO BE PERFORMED FOR DEPARTMENTAL REPRESENTATIVE REVIEW.
 - PROVIDE A SYSTEM TO HAVE THE GATE LOCKING MECHANISM IN THE UPRIGHT POSITION WHILE THE GATE IS BEING OPENED.
 - GATE CLOSING PINS MUST BE ACCESSIBLE FROM INSIDE OF ENCLOSED AREA WHEN GATE IS CLOSED.
 - CONTRACTOR TO POSITION LATCHING PLATE SO THAT IT IS ALIGNED WITH GATE LATCHING PLATE IN OPEN POSITION.

No.	Description	By	Date
0	FOR TENDER	Y.B	05/13/2020

Revision / Révision
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

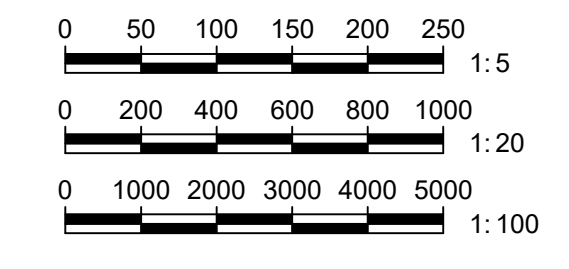
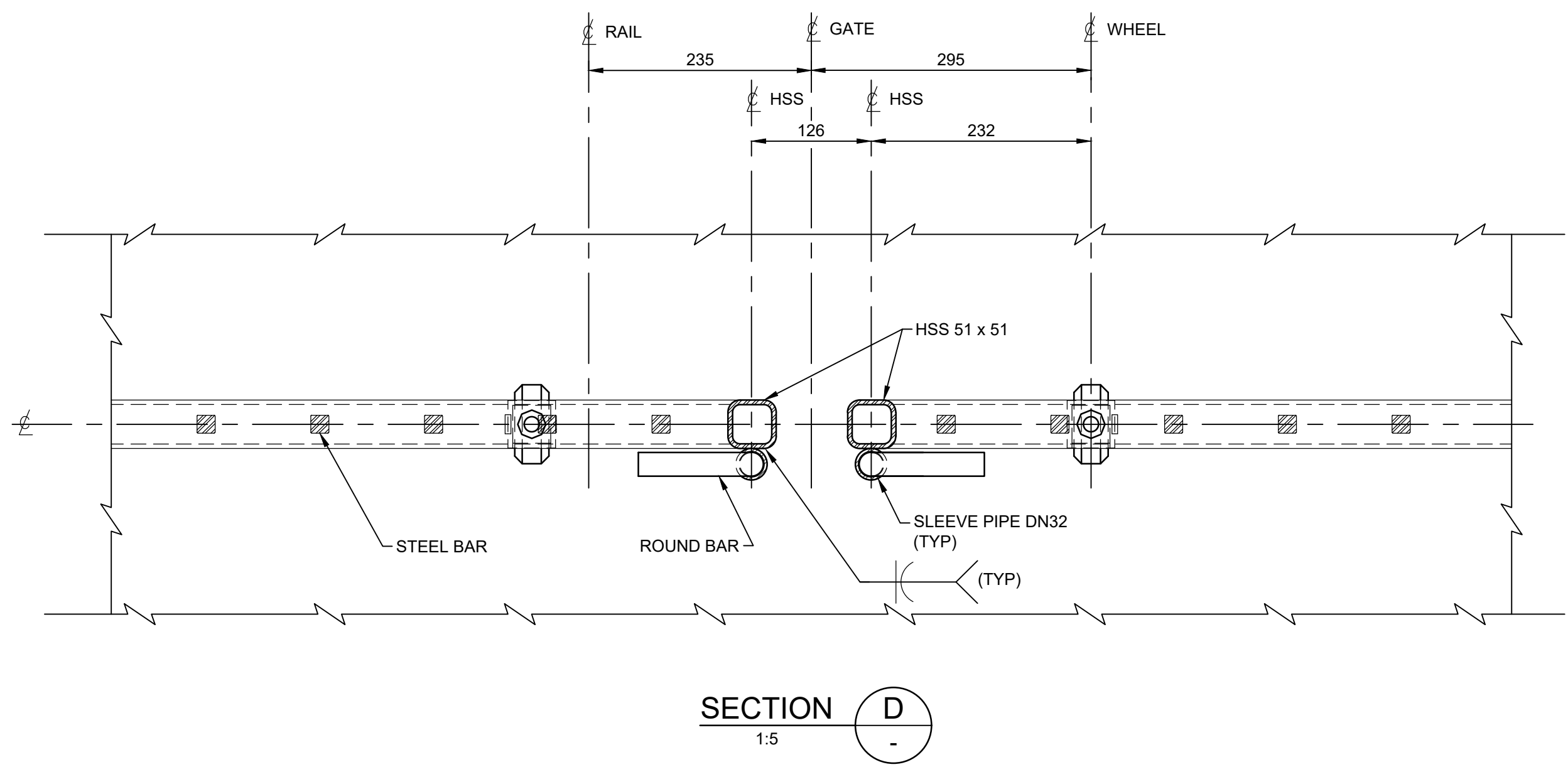
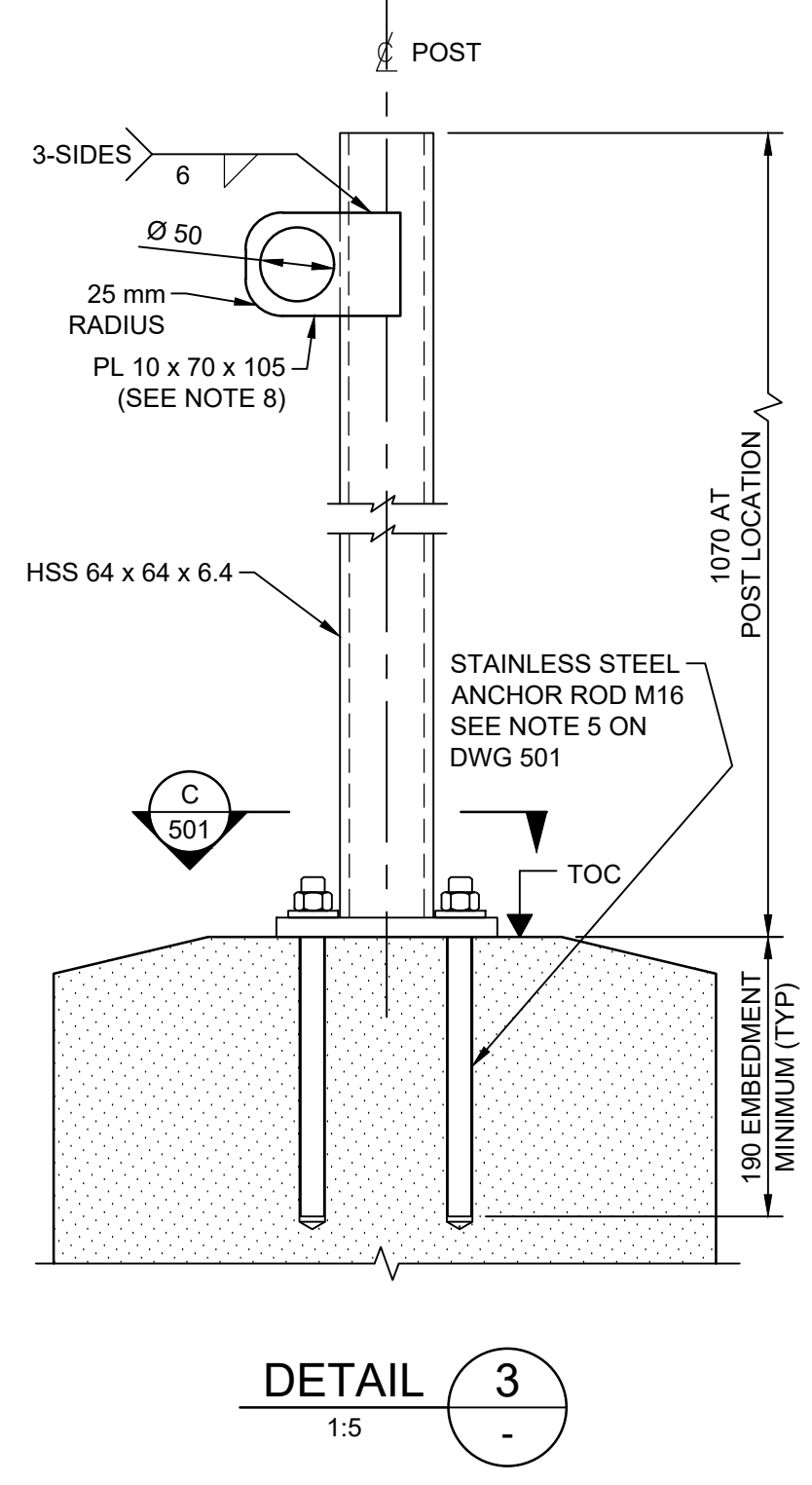
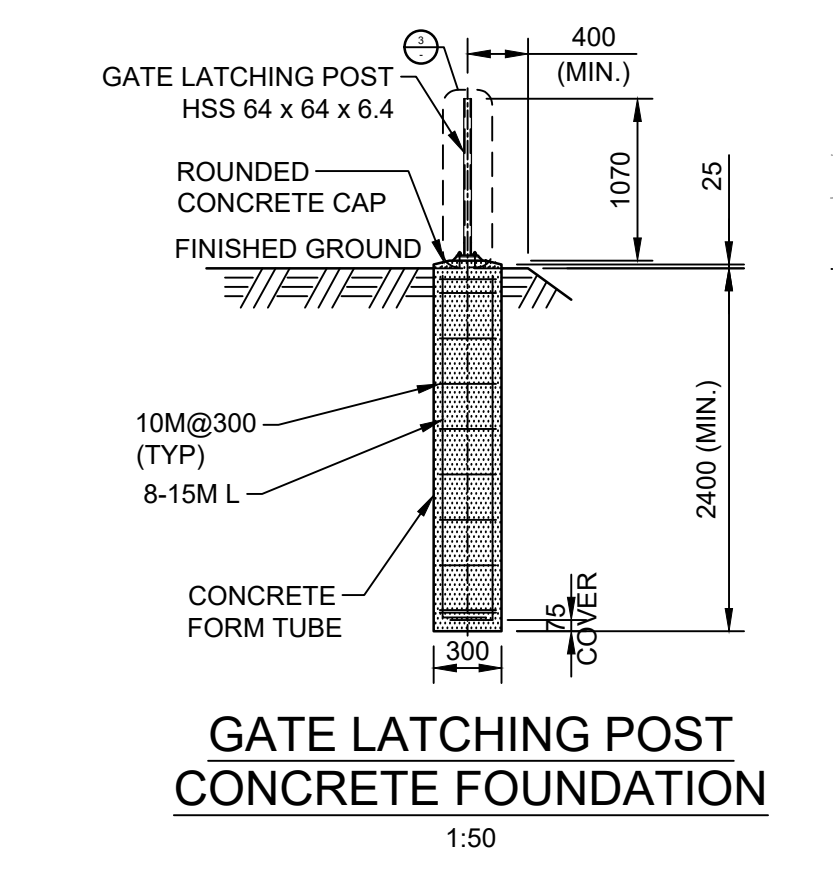
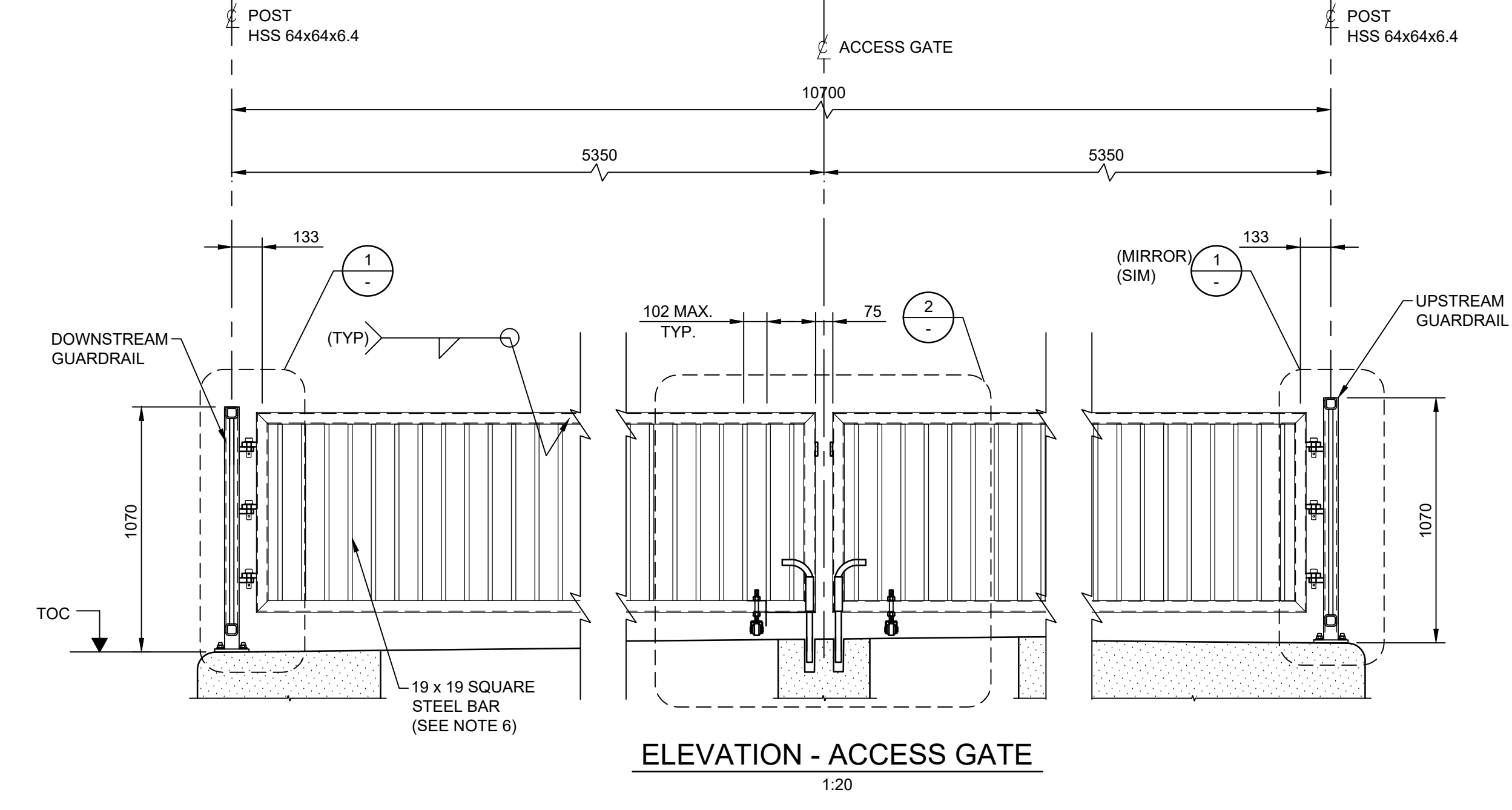
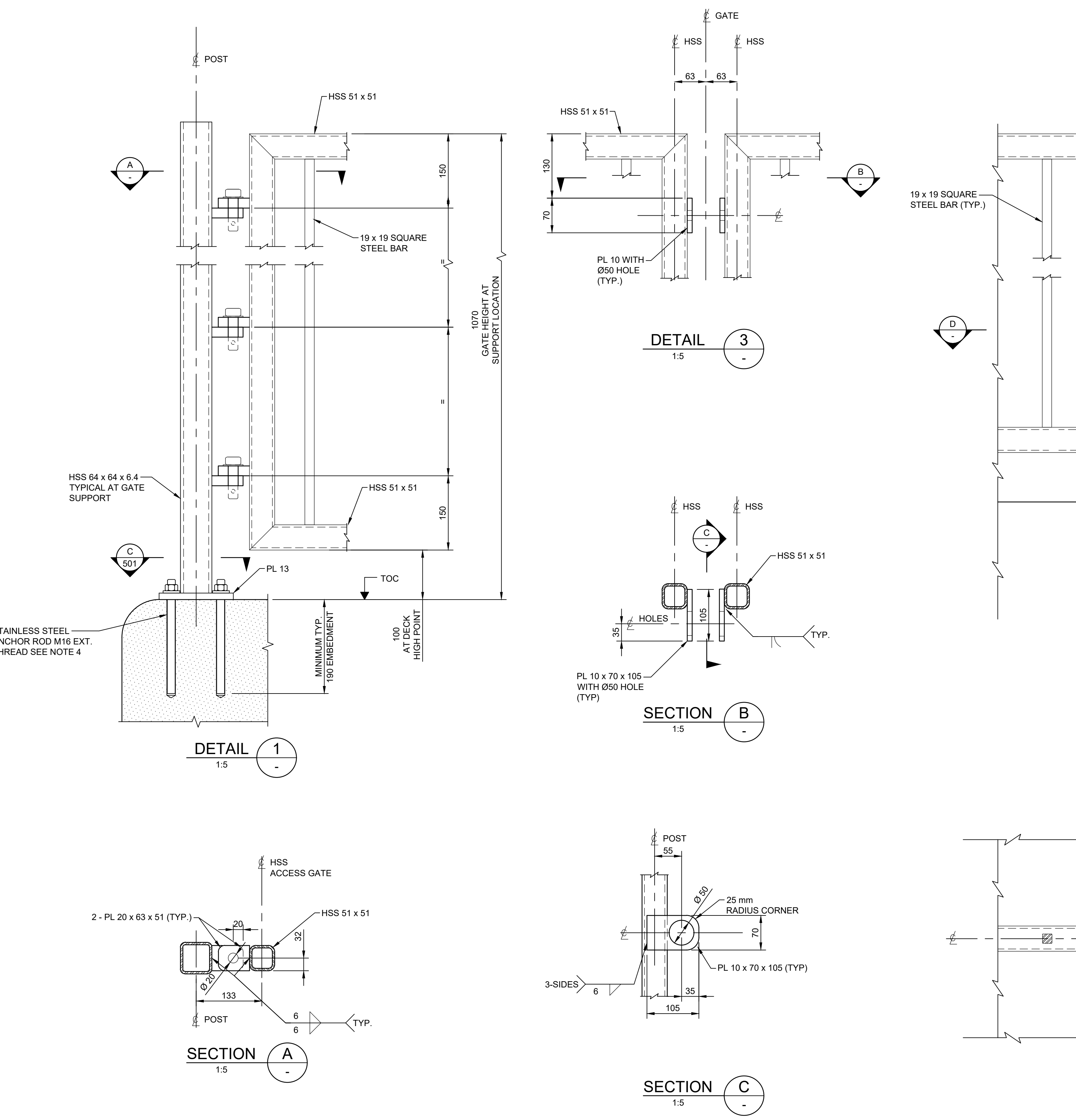
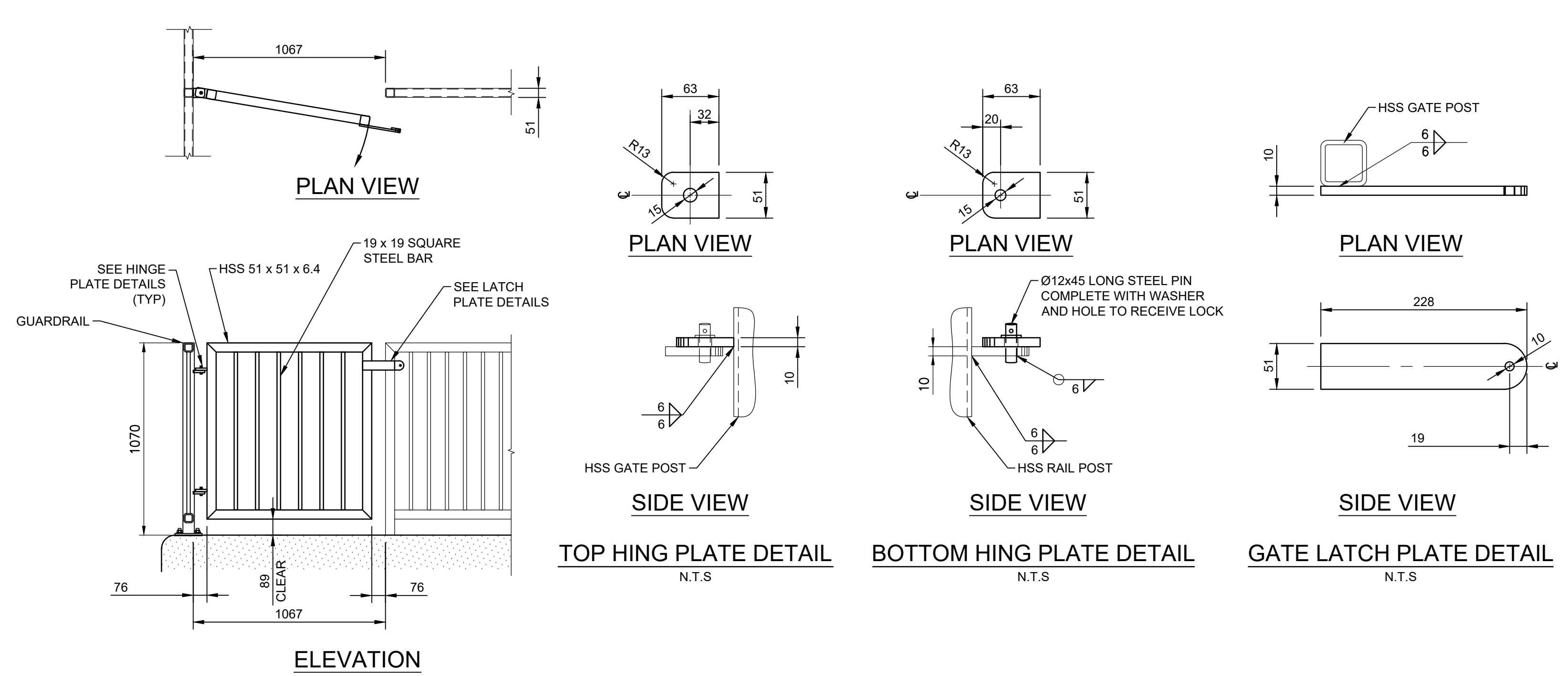
A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

Professional Stamp

Project title / Titre du projet
**TRENT-SEVERN WATERWAY
DAM AT LOCK 28 BURLEIGH FALLS
RECONSTRUCTION**

Drawing title / Titre du dessin
**MISCELLANEOUS METAL
ACCESS GATE
ELEVATIONS, SECTIONS
AND DETAILS**

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par Y. BERTON	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Project Number / Numéro du projet R.076951.705	Drawing Number / Numéro du Dessin 504
		Sheet Feuille 1 of 1



Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	0505 0

- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - FOR GUARDRAIL DETAILS SEE DRAWING 502.

0	FOR TENDER	Y.B	05/13/2020
No.	Description	By	Date

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the
Departmental Representative of all discrepancies.

A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

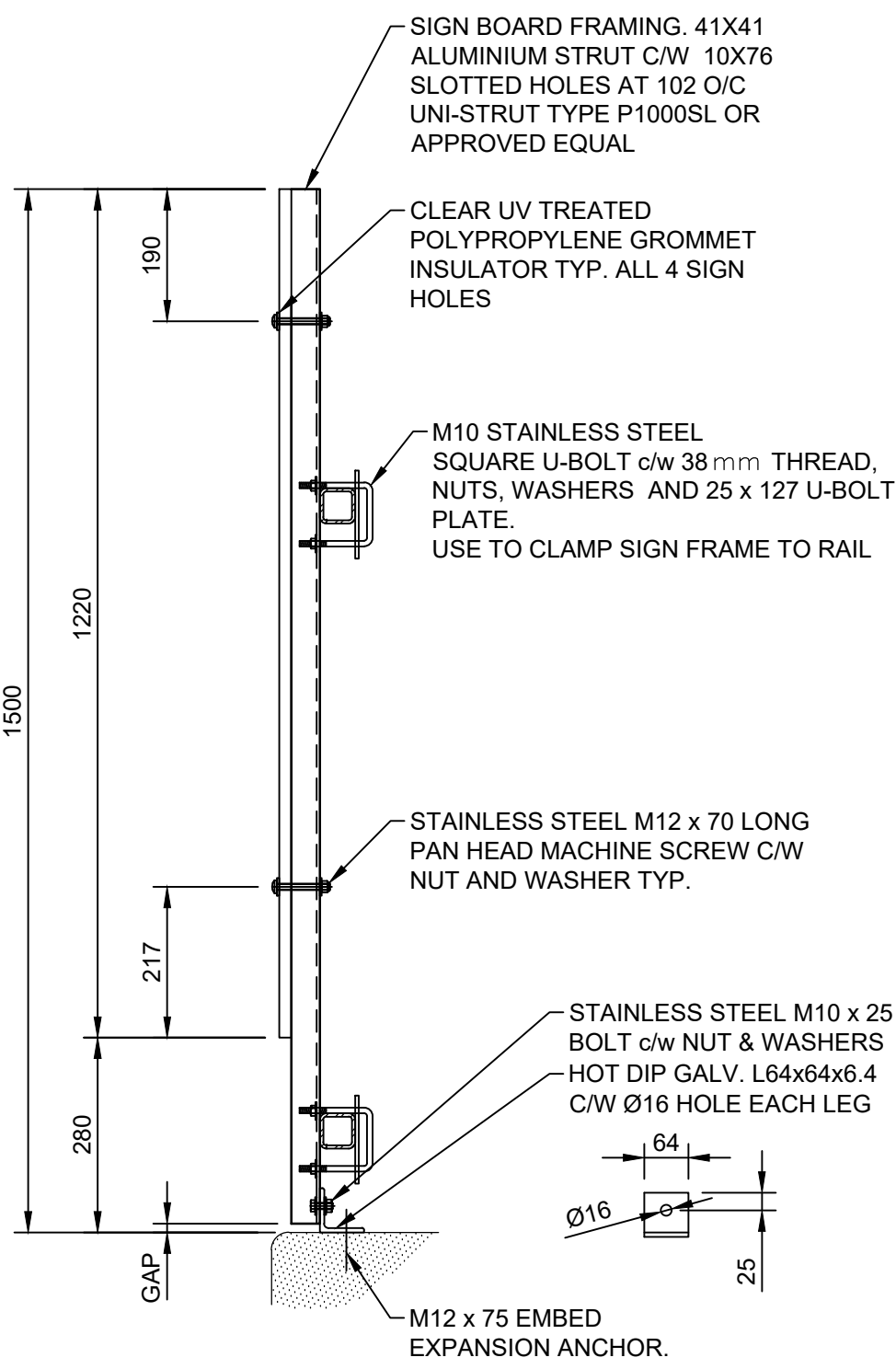
Professional Stamp

Project title / Titre du projet

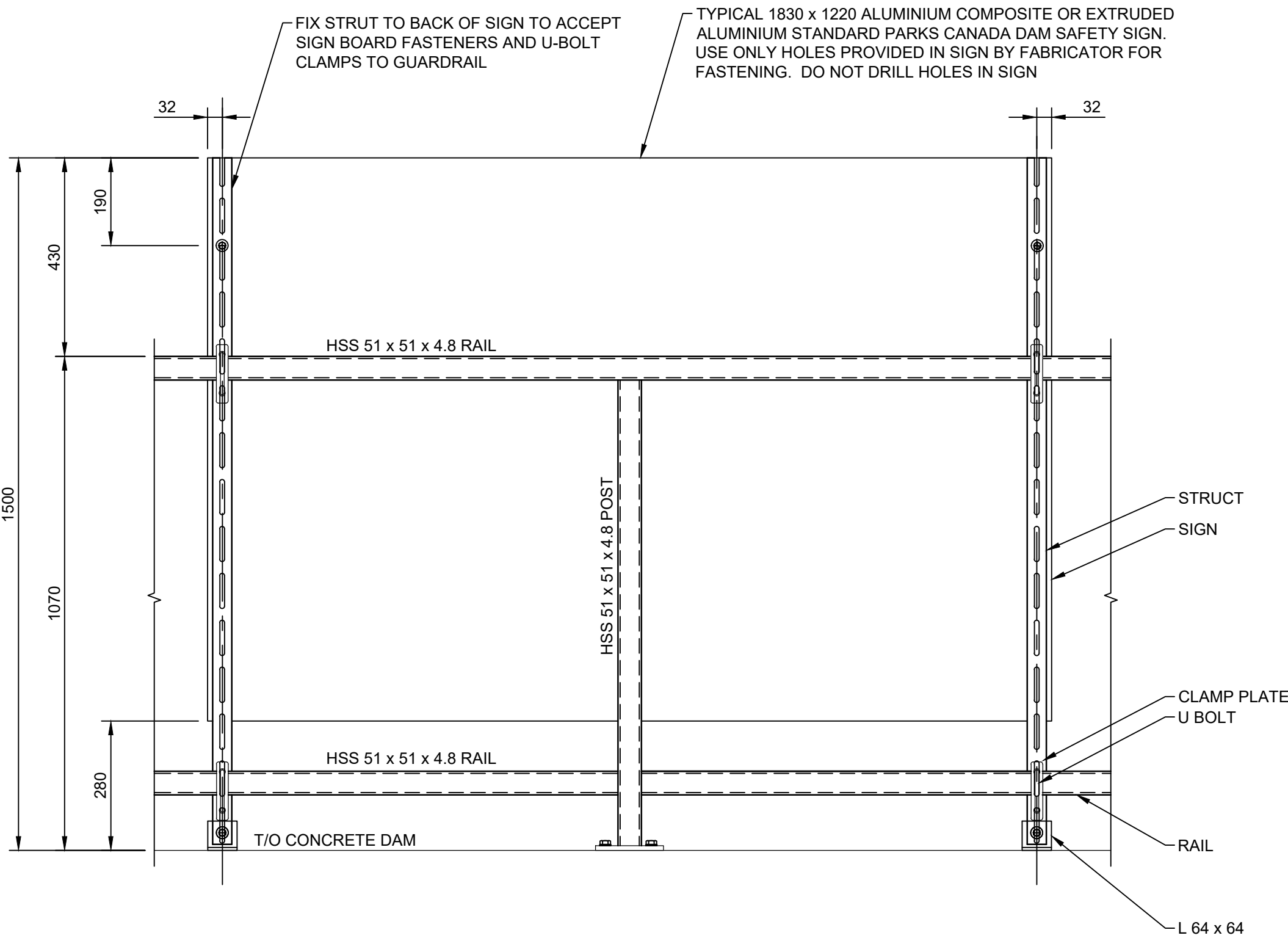
TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

MISCELLANEOUS METALS
PARTS
SIGN MOUNTING
DETAILS

Drawn by / Dessiné par	Designed by / Conçu par
H. BOIVIN	M. SAIDOU P.Eng.
Verified by / Vérifié par	Approved by / Approuvé par
Y. BERTON P.Eng.	S. VITTECOQ P.Eng.
Drawing Date / Date du dessin	Drawing Number / Numéro du Dessin
05/13/2020	505
Project Number / Numéro du projet	Sheet Feuille
R.076951.705	1 of 1

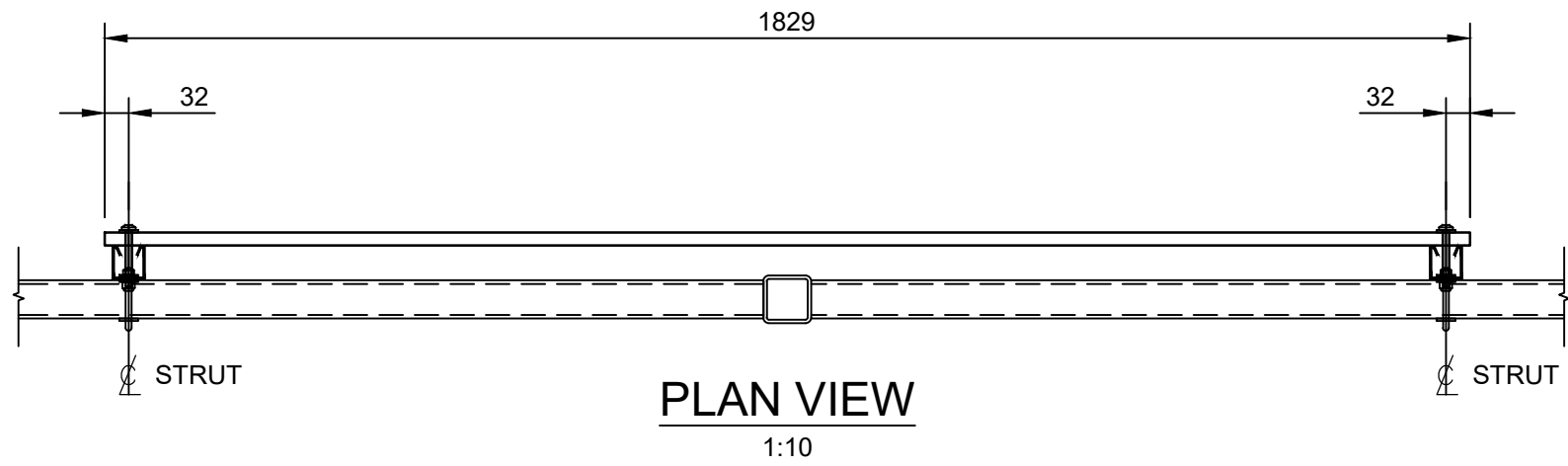


SIDE FACE VIEW
1:10

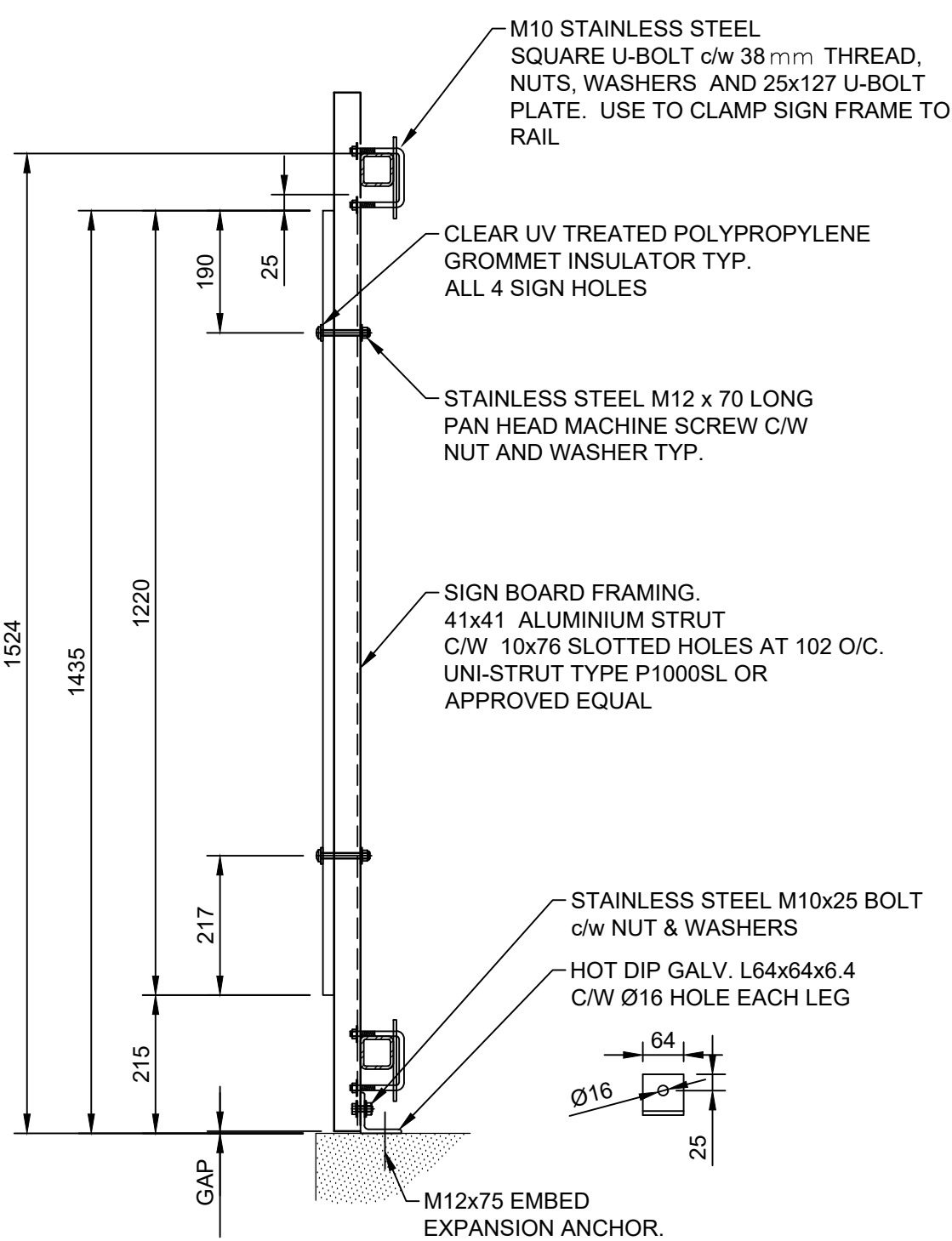


BACK FACE VIEW
1:10

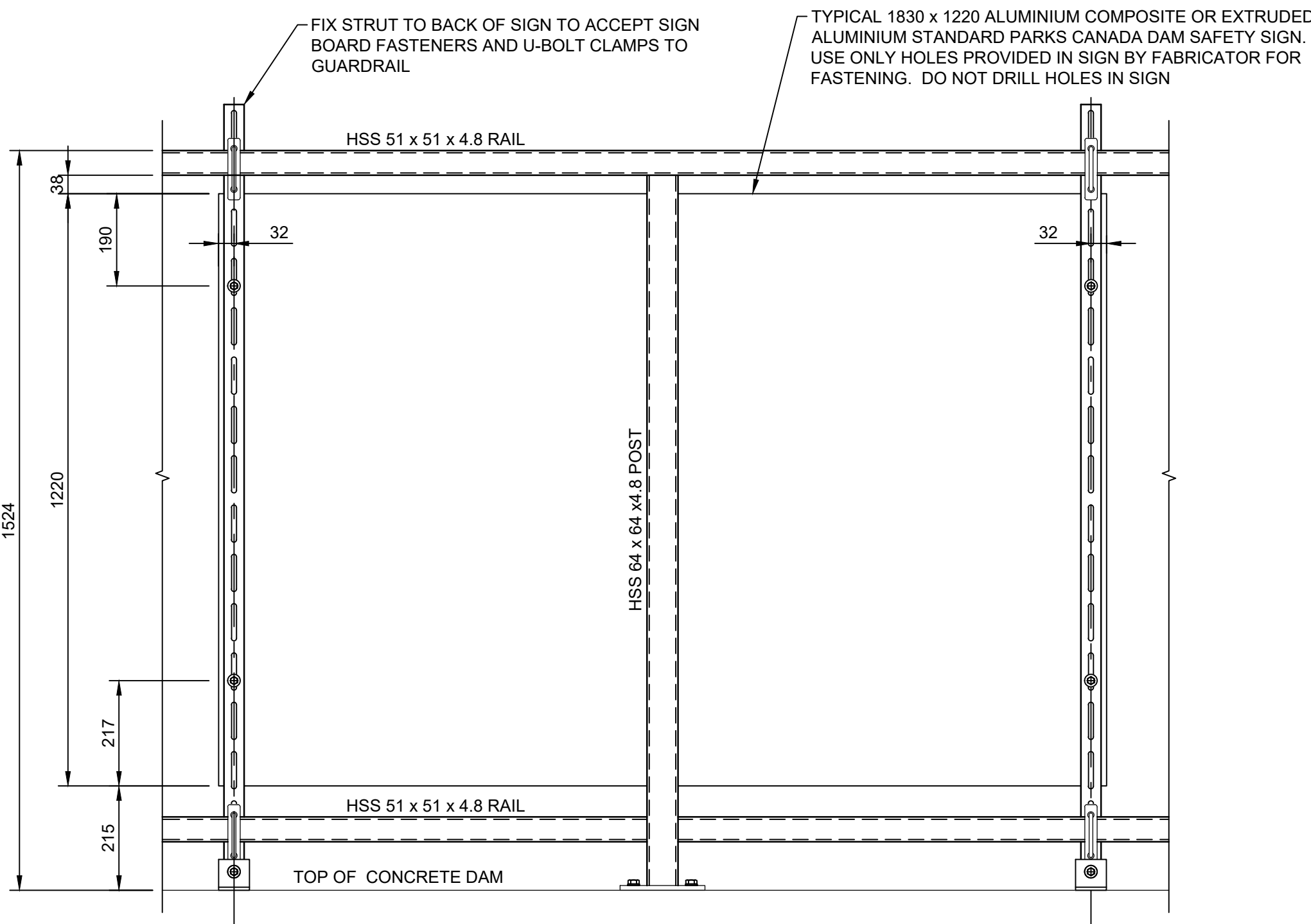
DETAILS - 1070 HIGH GUARDRAIL DETAILS
TYPICAL 4' x 6' (1220 x 1830) SIGN MOUNTING



PLAN VIEW
1:10



SIDE FACE VIEW
1:10

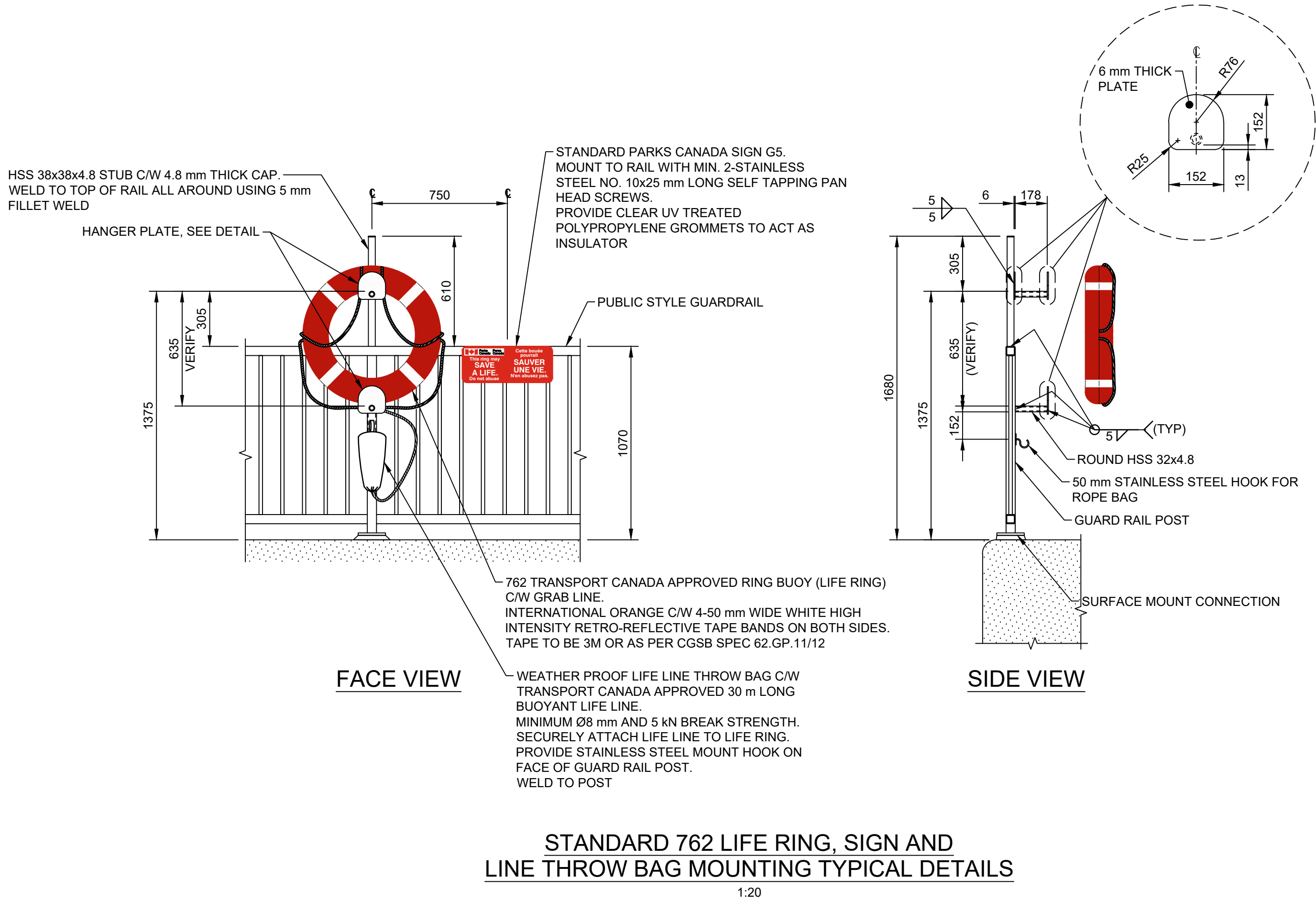


BACK FACE VIEW
1:10

DETAILS - 1524 HIGH GUARDRAIL DETAILS
TYPICAL 4' x 6' (1220 x 1830) SIGN MOUNTING

Sign Schedule (SIGNS PROVIDED BY PARKS CANADA, CONTRACTOR TO INSTALL)						
SIGN IMAGE	SIGN DESIGNATION	SIZE (mm)	MATERIAL	QUANTITY	LOCATION	MESSAGE
	A1 E SEE PARKS CANADA SIGN STANDARD DRAWING G1 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	1220 x 1830	ALUMINUM COMPOSITE	2	AT END OF SAFETY BOOM, UPSTREAM OF DAM, BOTH ENDS REFER TO DRAWING 500	DANGER Dam Ahead Keep Out Burleigh Falls Dam In An Emergency, Call 9-1-1
	A1 F SEE PARKS CANADA SIGN STANDARD DRAWING G1 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	1220 x 1830	ALUMINUM COMPOSITE	2	AT END OF SAFETY BOOM, UPSTREAM OF DAM, BOTH ENDS REFER TO DRAWING 500	DANGER Barrage devant Accès interdit Barrage de Burleigh Falls En cas d'urgence, composez le 9-1-1
	A8 E SEE PARKS CANADA SIGN STANDARD DRAWING G1 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	1220 x 1830	ALUMINUM COMPOSITE	1	DOWNSTREAM OF DECK AT PIER 11 REFER TO DRAWING 500	DANGER Dam Outflow Keep Out Burleigh Falls Dam In An Emergency, Call 9-1-1
	A8 F SEE PARKS CANADA SIGN STANDARD DRAWING G1 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	1220 x 1830	ALUMINUM COMPOSITE	1	DOWNSTREAM OF DECK AT PIER 10 REFER TO DRAWING 500	DANGER Zone de décharge du barrage Accès interdit Barrage de Burleigh Falls En cas d'urgence, composez le 9-1-1
	G4 SEE PARKS CANADA SIGN STANDARD DRAWING G4 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	660 x 610	ALUMINUM COMPOSITE	2	AT BOTH ENDS OF DECK REFER TO DRAWING 500	Burleigh Falls Dam HWY 28, Trent Lakes, On
	G5 SEE PARKS CANADA SIGN STANDARD DRAWING G5 FOR COLORS, FONT, MATERIALS AND MANUFACTURING SPECIFICATIONS. TEXT ACCORDING TO THIS TABLE.	200 x 500	ALUMINUM COMPOSITE	4	ON GUARDRAILS AT BOTH LADDERS 2 ON UPSTREAM FACE OF DECK AT PIER 4 AND 8 REFER TO DRAWING 500	This ring may SAVE A LIFE. Do not abuse Cette bouée pourrait SAUVER UNE VIE. N'en abusez pas.

REFER TO PROVIDED DAM SAFETY SIGNS TEMPLATES



Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	0506 0

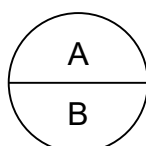
- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - SAFETY SIGNAGE LOCATED OFF OF DAM TO BE INSTALLED ON GALVANISED STEEL SUPPORTS ANCHORED TO BEDROCK. SEE SPECIFICATION SECTION 05 50 00.
 - SIGN DESIGN IN ACCORDANCE WITH PCA SAFETY SIGN STANDARD FOR LETTERING AND COLORS.
 - ISOLATING WASHER TO BE PROVIDED BETWEEN ALUMINIUM AND GALVANIZED STEEL.

DESIGN LOADS

No.	Description	By For	Date
0	FOR TENDER	Y.B	05/13/2020

Revision / Révision

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the
Departmental Representative of all discrepancies.



A Detail number
Numéro du détail
B Location dwg. number
Numéro sur dessin

Professional Stamp

Project title / Titre du projet

TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

Drawing title / Titre du dessin

MISCELLANEOUS METALS
PARTS
PUBLIC SAFETY
MEASURES

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU P.Eng.
Verified by / Vérifié par Y. BERTON P.Eng.	Approved by / Approuvé par S. VITTECOQ P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number/ Numéro du Dessin 506
Project Number / Numéro du projet R.076951.705	Sheet Feuille 1 of 1

