

GENERAL NOTES

- THE EXISTING PACIFIC RIM NATIONAL PARK WEST COAST TRAIL CULLITE CABLE CAR CROSSING, BRIDGE #92 AND CHEEWAT SUSPENSION BRIDGE HAVE BEEN REPAIRED TO THE GENERAL INTENT OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE 2006 AND DIRECTIVE FOR DESIGN, CONSTRUCTION AND INSPECTION OF VEHICULAR AND PEDESTRIAN BRIDGES - 2008 BY PARKS CANADA. UPGRADING DESIGN HAS BEEN DONE AS FAR AS PRACTICAL GIVEN THE LIMITATIONS OF THE AVAILABLE EXISTING DRAWING INFORMATION AND LIMITED KNOWLEDGE OF THE ACTUAL CONSTRUCTION. MODIFICATION OF STRUCTURAL FRAMING AND/OR DETAILS MAY BE REQUIRED IF EXISTING CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS. WHERE UPGRADE HAS BEEN PARTIAL, THE RESISTANCE OF THE CROSSING IS LIMITED TO THE ORIGINAL CAPACITY AND PERFORMANCE WILL BE LESS THAN THAT EXPECTED OF A NEW CROSSING. THE FOLLOWING ARE EXCEPTIONS TO CANCSA 96-06 CHDCC, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AND BASED ON THE DIRECTIONS FROM PARKS CANADA:
 - LIVE LOAD NOTED APPLIES TO ENTIRE NEW CROSSINGS ONLY.
 - MAINTAINING NUMBER OF GUARDRAILS ON THE BRIDGE AS PER ORIGINAL CONDITIONS (IN SOME CASES NONE OR ONE SIDE ONLY)
 - VIBRATION ANALYSIS WAS NOT PART OF THE ASSESSMENT AND DESIGN, (EXCEPT FOR CULLITE CABLE CAR NORTH TOWER.)
 - SCOUR ANALYSIS / FLOW STUDY WAS NOT IN SCOPE OF ASSESSMENT AND DESIGN
- CONSTRUCT TO THE REQUIREMENTS OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE 2006 AND DIRECTIVE FOR DESIGN, CONSTRUCTION AND INSPECTION OF VEHICULAR AND PEDESTRIAN BRIDGES - 2008 BY PARKS CANADA.

3. SPECIFIED DESIGN LOADS (kN/m²):

GRAVITY: DEAD LOAD = SELF-WEIGHT
 LIVE LOAD = 2.2 kPa (CROSSING REPLACEMENT ONLY)
 SNOW LOAD = 1.28 kPa (PORT RENFREW)
 GUARDRAIL: 1kN HORIZ. LOAD AT TOP (CROSSING REPLACEMENT ONLY)

ICE ACCRETION: MODERATE (12mm ON ALL EXPOSED SURFACES)

WIND: q/150 = 0.52 kPa

SEISMIC: Z_v = 5
 V = 0.3
 Z_a = 5
 A = 0.4
 SEISMIC PERFORMANCE ZONE 4
 SOIL PROFILE III (ASSUMED)
 S = 1.5
 K = 1.5

- FOR METHODS OF CONSTRUCTION, QUALITY OF WORKMANSHIP AND MATERIAL AND FOR STANDARDS AND CODES, REFER TO SPECIFICATIONS THAT ARE OF THE CONTRACT DOCUMENTS.
- ALL STRUCTURAL ITEMS MUST BE REVIEWED BY THE DEPARTMENTAL REPRESENTATIVE OR BY ANOTHER SUITABLY QUALIFIED PERSON RESPONSIBLE TO THE DEPARTMENTAL REPRESENTATIVE.
- SEE SPECIFICATIONS FOR REVIEW OF THE FOLLOWING:
 - EXCAVATIONS: BEFORE FORMING.
 - REINFORCING STEEL AND POUR CONDITIONS: BEFORE EACH CONCRETE POUR.
 - STRUCTURAL STEEL: BEFORE COVERING UP.
 - WOOD FRAMING.
- CHECK AND CONFIRM THAT WORK IS COMPLETED IN ACCORDANCE WITH CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION REVIEW. WORK FOR CONSTRUCTION REVIEW IS TO BE COMPLETED IN REASONABLY SIZED SEGMENTS.
- BRACE AND SHORE THE STRUCTURE UNTIL ALL STRUCTURAL COMPONENTS ARE COMPLETED. BRACING SHOWN IS DESIGNED FOR LOADS TO COMPLETED STRUCTURE ONLY.
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE.

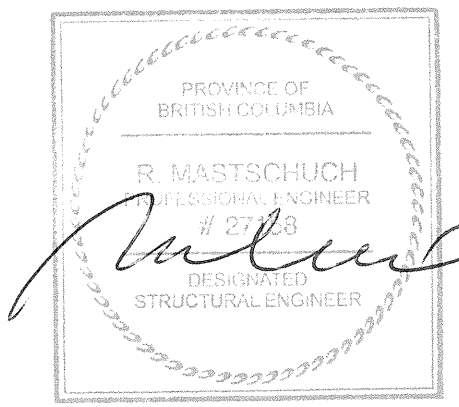
BRIDGE LOCATION AT CENTRE OF BRIDGE				
BRIDGE NAME	LATITUDE (N)	LONGITUDE (W)	ELEVATION (m)	WCT MILESTONE (km)
1 CHEEWAT SUSPENSION BRIDGE	124° 48.720'	48° 39.795'	54.0	35.9
2 CULLITE CABLE CAR CROSSING	124° 35.855'	48° 34.029'	28.0	57.7
3 BRIDGE 92	48° 33.966°	124° 35.401'	36.8	58.4

DRAWING INDEX

- S-1 GENERAL NOTES, DRAWING INDEX AND KEY PLAN
- S-2 CULLITE CABLE CAR CROSSING: WEST TOWER
- S-3 CULLITE CABLE CAR CROSSING: WEST TOWER DETAILS
- S-4 CULLITE CABLE CAR CROSSING: EAST TOWER
- S-5 BRIDGE 92: PLAN & ELEVATION
- S-6 BRIDGE 92: SECTIONS & DETAILS
- S-7 CHEEWAT SUSPENSION BRIDGE: PLANS & ELEVATIONS
- S-8 CHEEWAT SUSPENSION BRIDGE: SECTIONS AND DETAILS
- S-9 CHEEWAT SUSPENSION BRIDGE: SECTIONS AND DETAILS

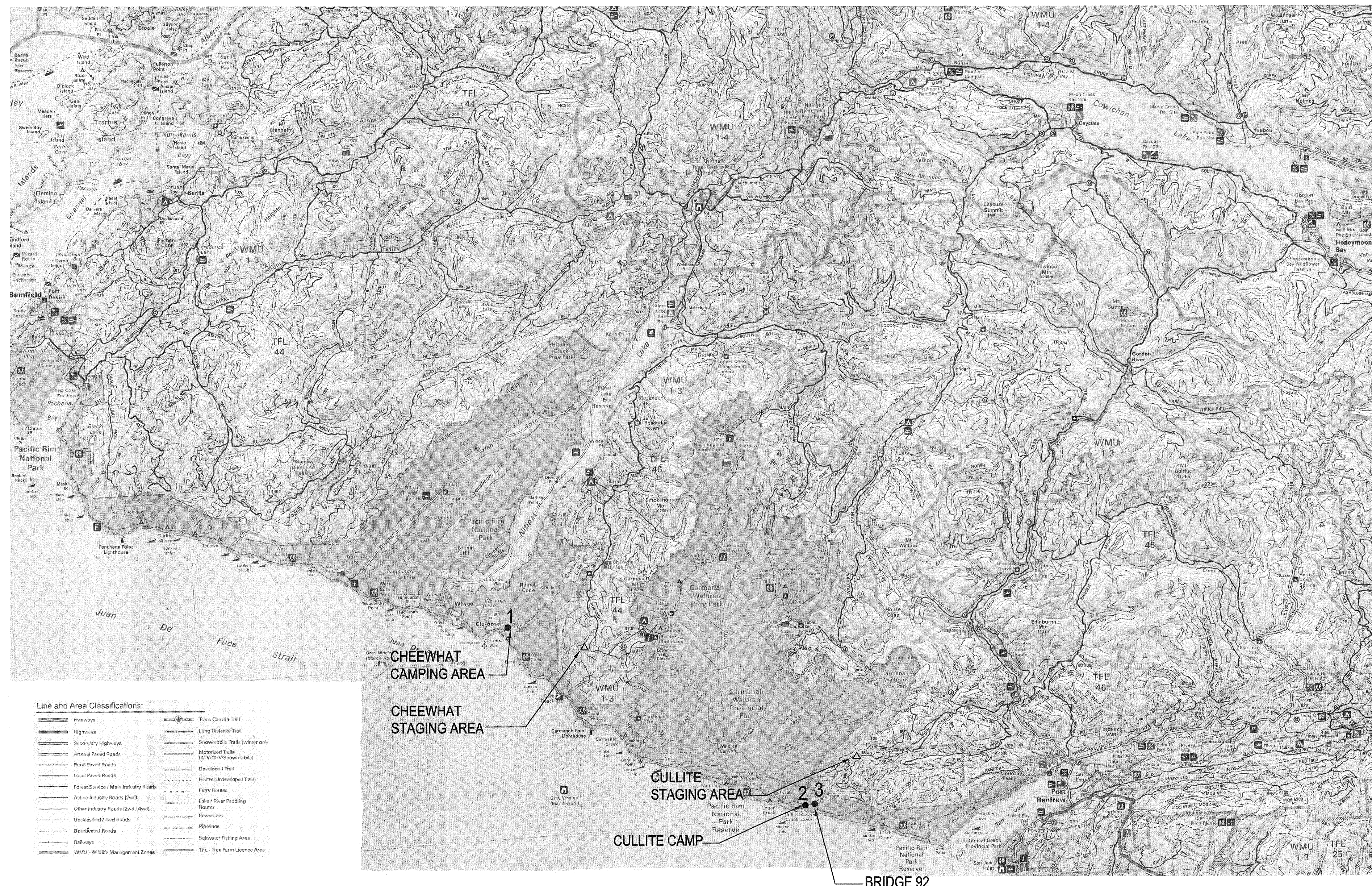


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 VANCOUVER BRITISH COLUMBIA CANADA V6J 4Y3
 TEL: 604-736-5421 FAX: 604-736-5119 WWW.WSPGROUP.COM
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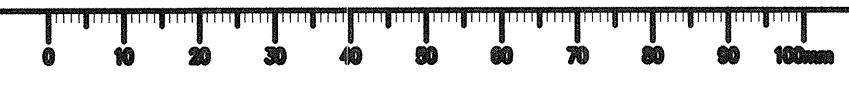


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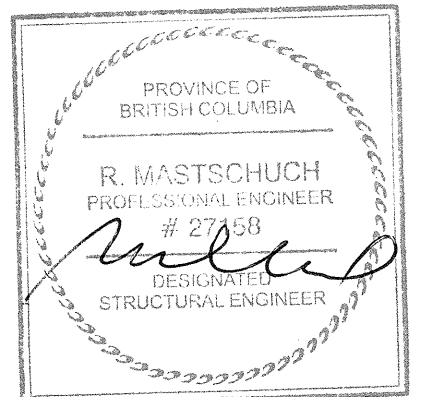
ELEVATIONS AND COORDINATES ARE APPROXIMATE, SITE VERIFY.



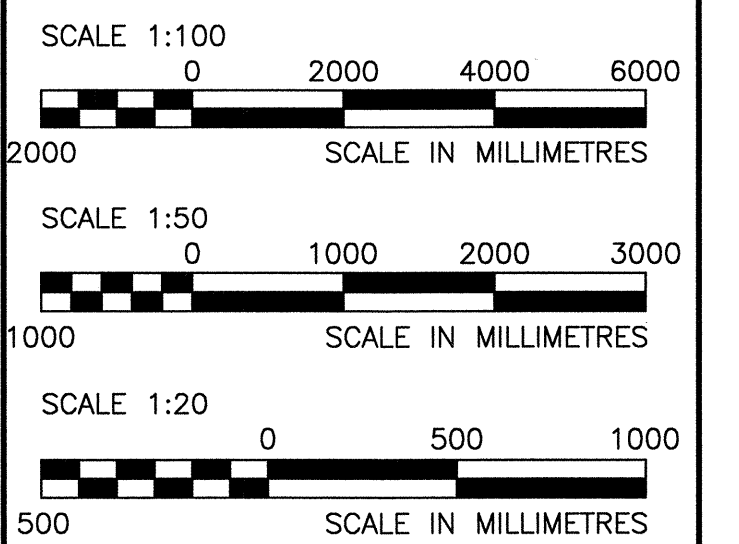
KEY PLAN
 N.T.S.



0	ISSUED FOR TENDER	2015/11/2
Revision/	Description/Description	Date/Date
Client/client		
Public Works and Government Services Canada		
800 Burrard Street - 12th Floor Vancouver B.C.		
Project title/Titre du projet Pacific Rim National Park Vancouver Island B.C.		
West Coast Trail Bridges Repair		
Consultant Signature Only		
Designed by/Concept par R.M.		
Drawn by/Dessiné par J.G.		
PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY		
Regional Manager, Architectural and Engineering Services Gestionnaire régional, Services d'architecture et de génie, TPSGC		
Drawing title/Titre du dessin GENERAL NOTES, DRAWING INDEX AND KEY PLAN		
Project No./No. du projet R.064182.001	Sheet/Feuille S-1 OF 9	Revision no./La Révision no. 0



NOV 13 2015



Revision/Modification	Description/Description	Date/Date
1	ISSUED FOR TENDER	2015/11/9

Client/Client: Public Works and Government Services Canada

800 Burrard Street - 12th Floor
Vancouver B.C.

Project Title/Titre du projet: Pacific Rim National Park
Vancouver Island B.C.

West Coast Trail
Bridges Repair

Consultant Signature Only

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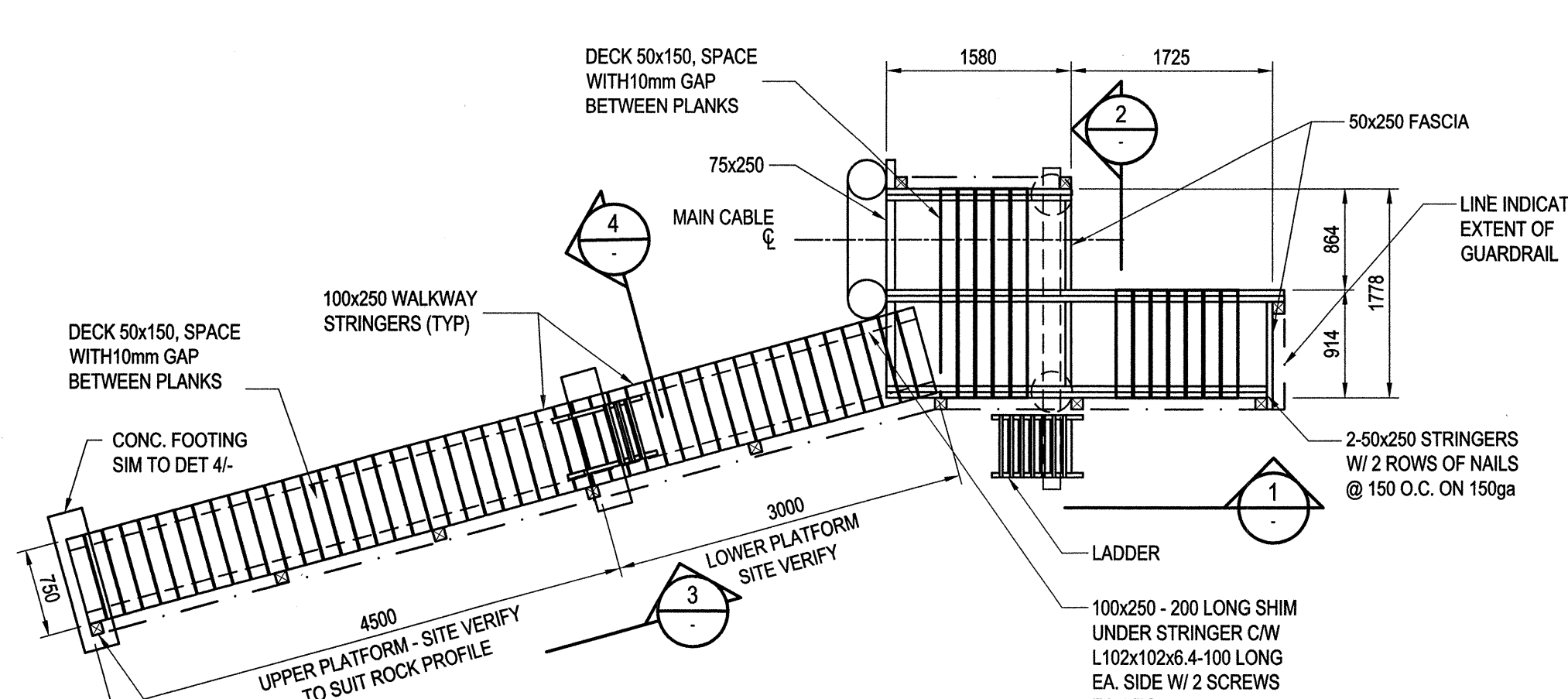
PWGC Project Manager/Administrateur de Projets TPSC: TOM DUNPHY

Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSC

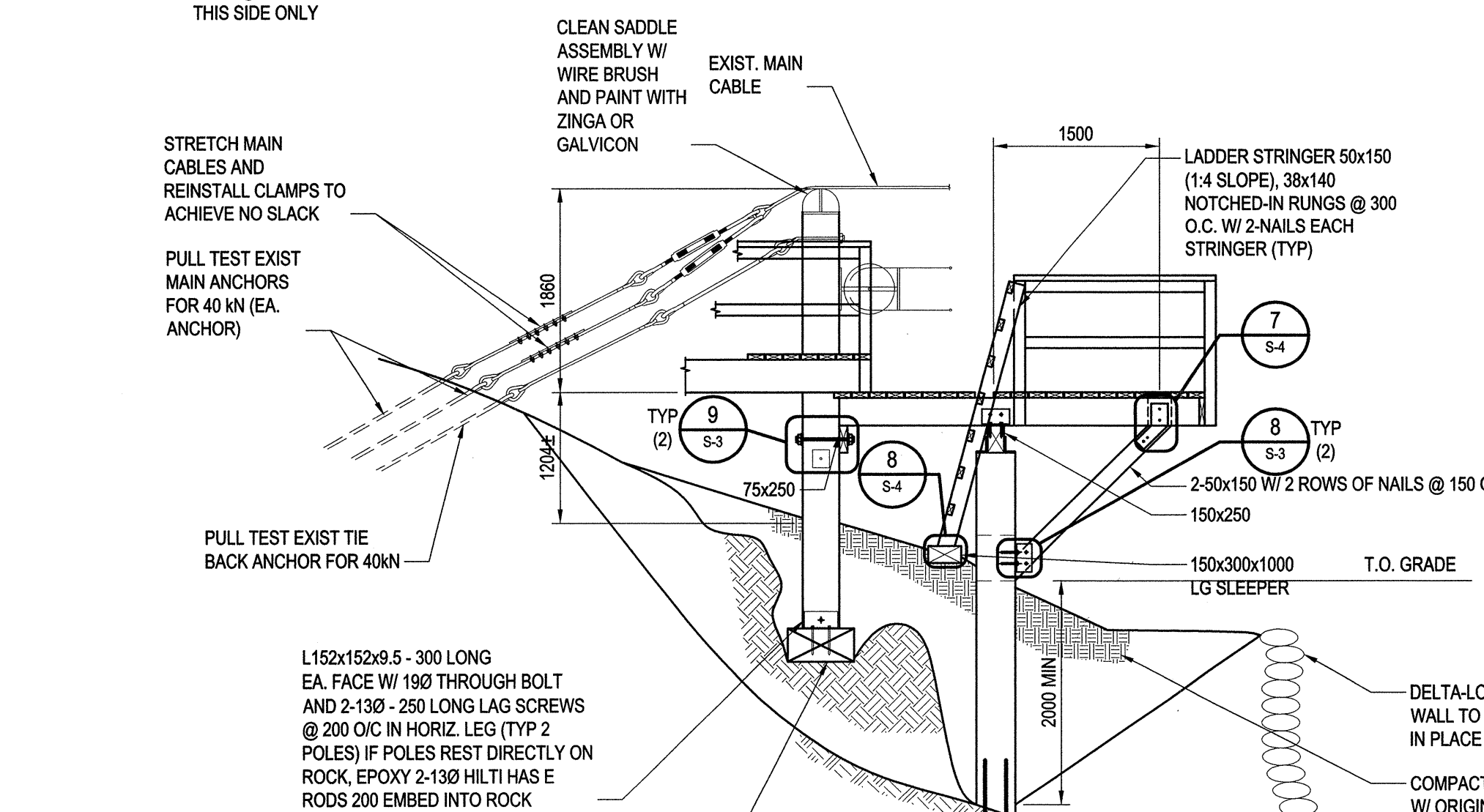
Drawing Title/Titre du dessin

CULLITE CABLE CAR CROSSING REPAIR:
WEST TOWER

Project No./No. du projet	Sheet/Feuille	Revision no./No. de révision
R.064182.001	S-2 OF 9	1



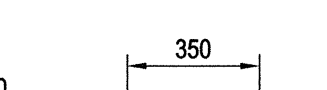
WEST TOWER PLATFORM - PLAN
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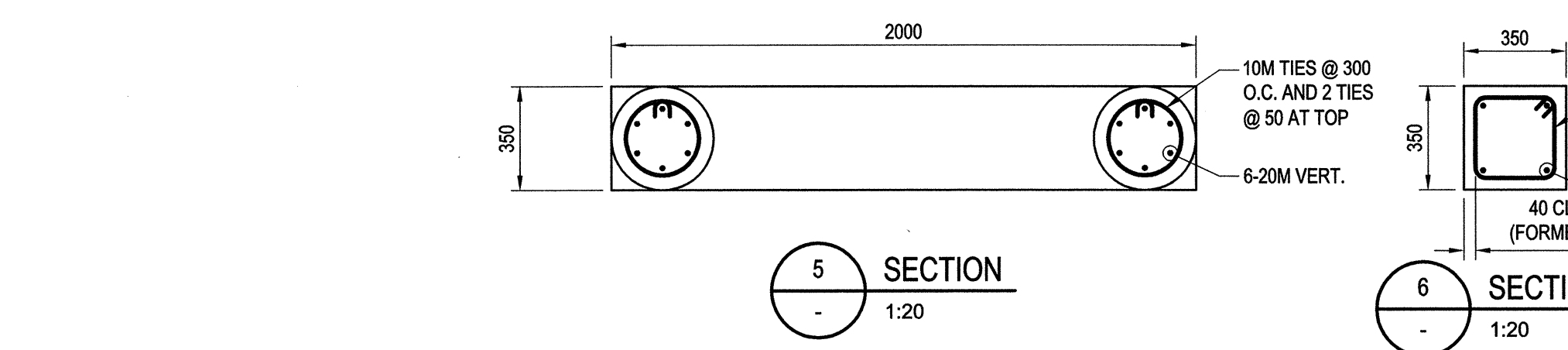
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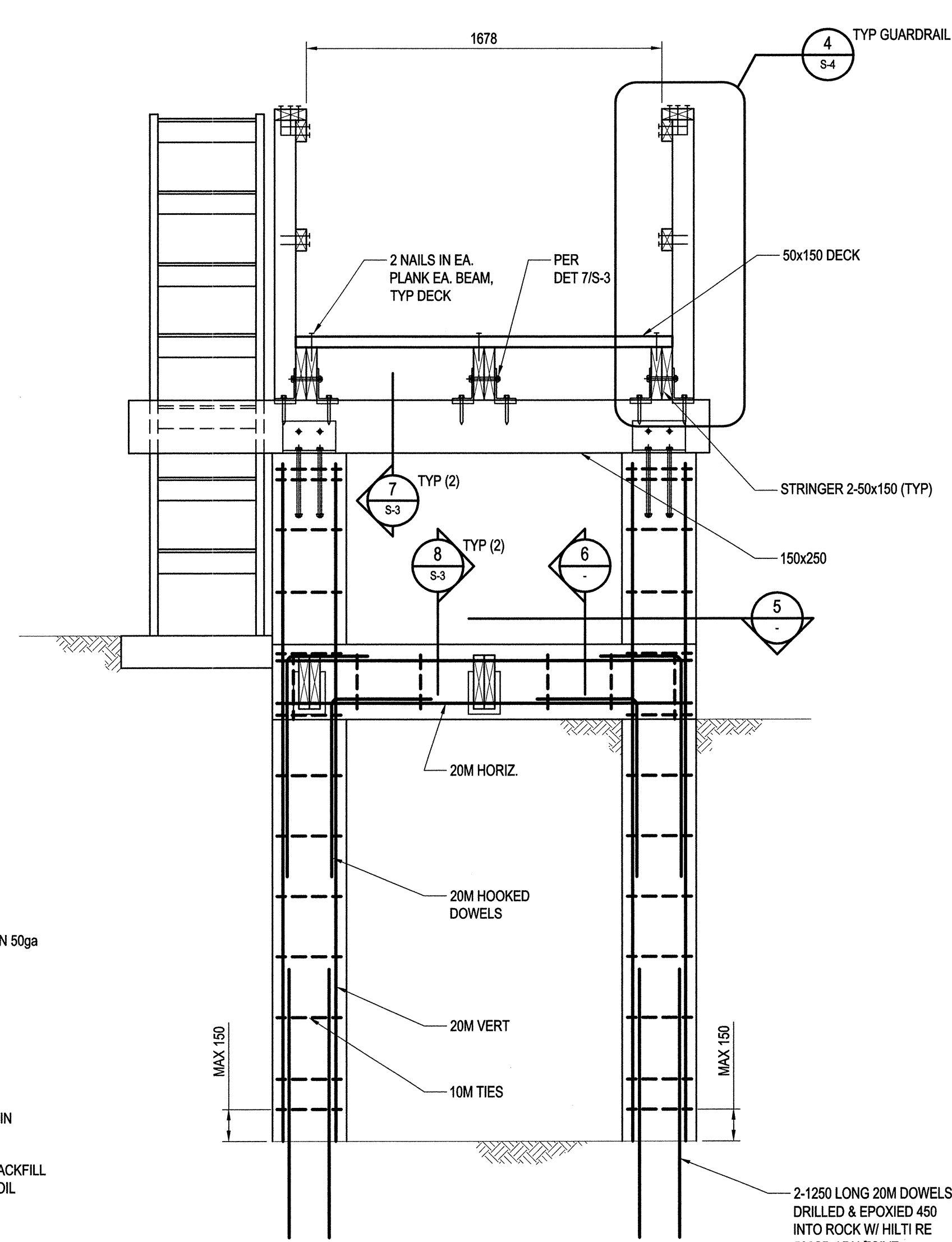
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SECTION 6
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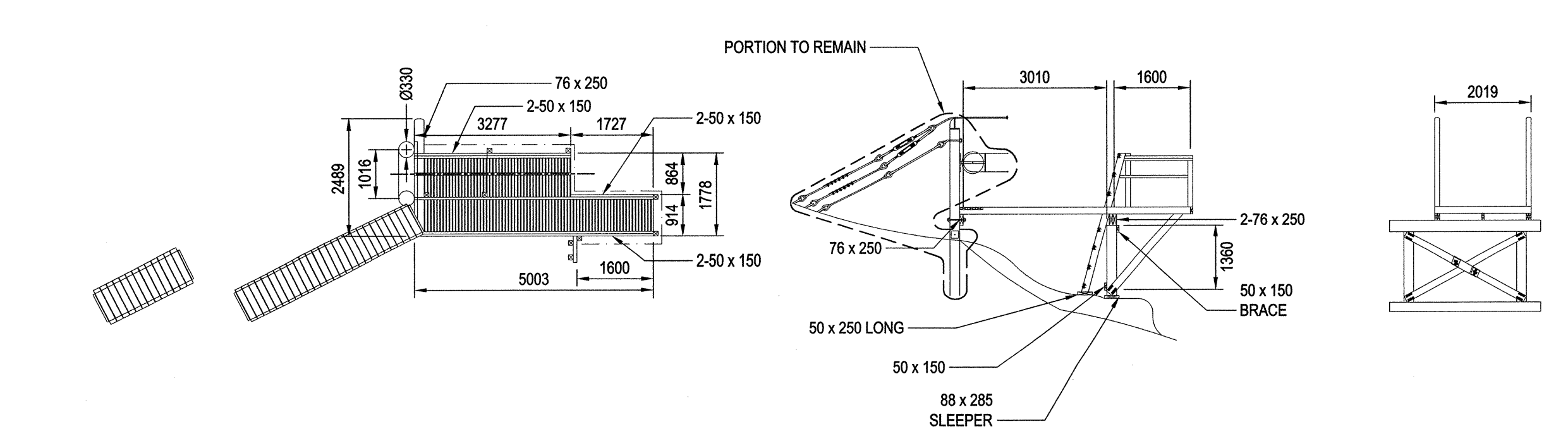


SECTION 2
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SECTION 3
1:20

SECTION 4
1:20



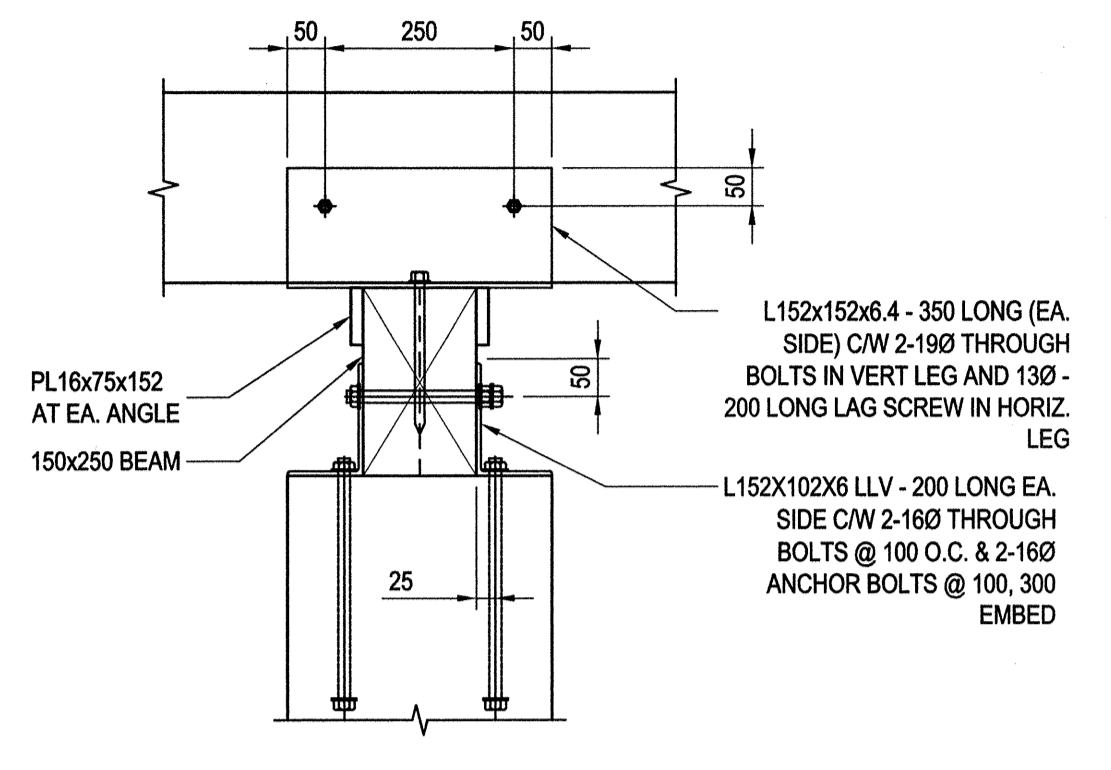
EXISTING WEST TOWER TO BE REMOVED (EXCEPT CABLES AND 2 MAIN COLUMNS)
(MAIN COLUMNS AND BASE ARE SUBJECT TO INSPECTION, ALLOW REPLACEMENT)



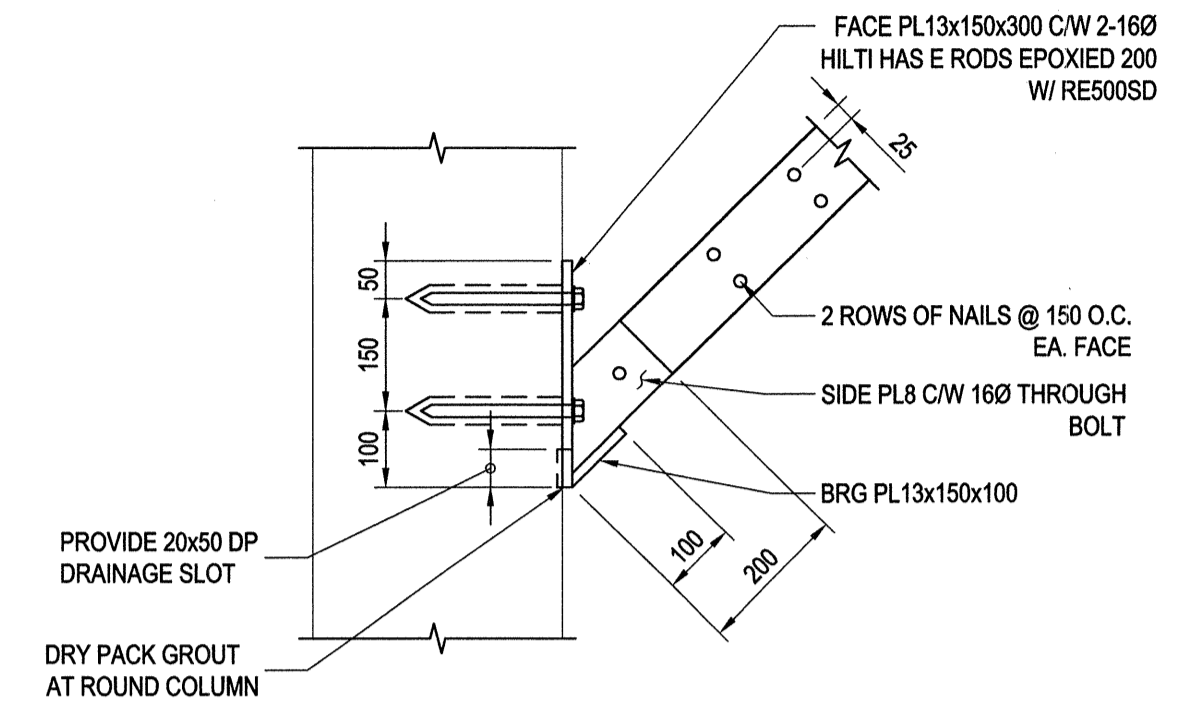
EXISTING WEST TOWER

NO CHANGE TO ORIGINAL CAPACITY

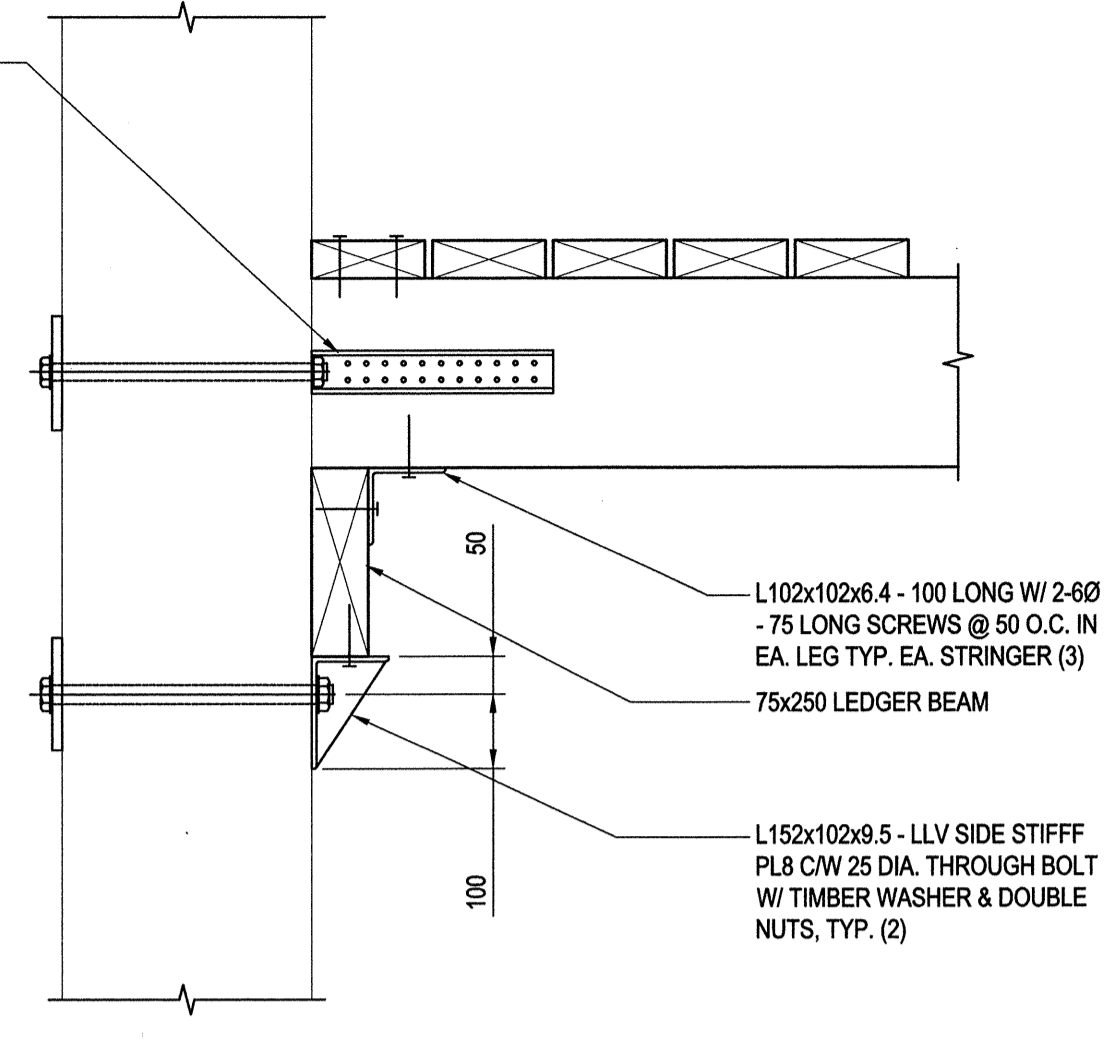
- NOTES:
- ALL NAILS TO BE GALVANIZED 4.20 x 89 LONG, TYP U.N.O.
 - ALL SCREWS TO BE 6mm DIAMETER x 89 LONG SELF TAPPING SCREWS U.N.O.
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 - (E) DENOTES EXISTING
 - POSTS TO BE 300mm LONGER AND FIELD CUT TO SUIT
 - ALL EXISTING DIMENSIONS TO BE SITE CONFIRMED, LONGER MEMBERS THAN SHOWN TO BE PROVIDED AND FIELD CUT TO SUIT



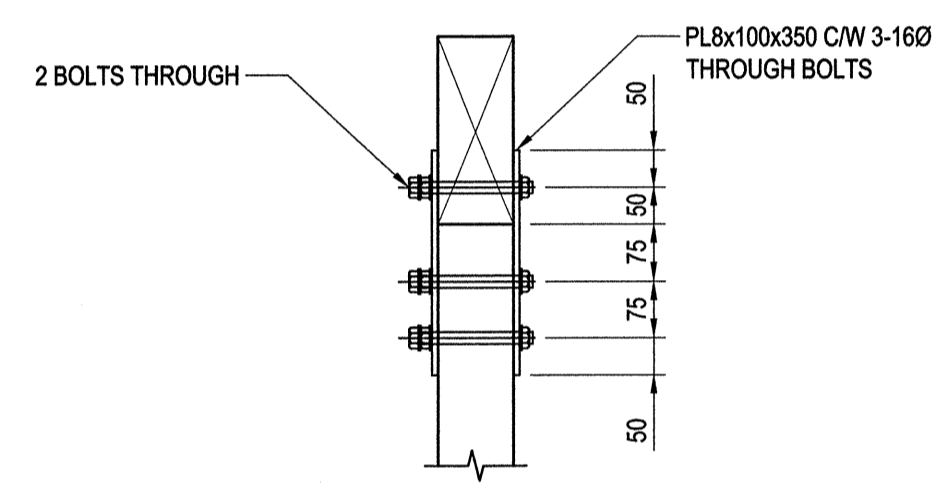
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S-2 1:10



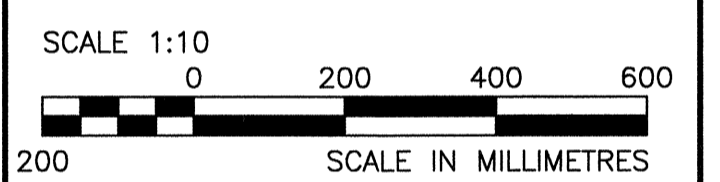
8 SECTION
S-2 1:10



9 DETAIL
S-2 1:10



10 DETAIL
S-2 1:10



Revision/Revisions	Description/Description	Date/Date
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Client/client
Public Works and Government Services Canada

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Project title/Titre du projet
**Pacific Rim National Park
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**West Coast Trail
Bridges Repair**

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Gestionnaire régional, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

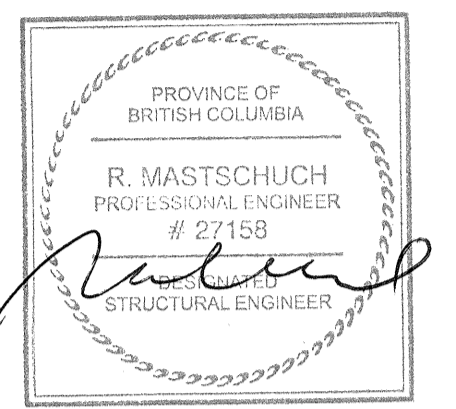
**CULLITE CABLE CAR CROSSING REPAIR:
WEST TOWER DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.064182.001	S-3 OF 9	0

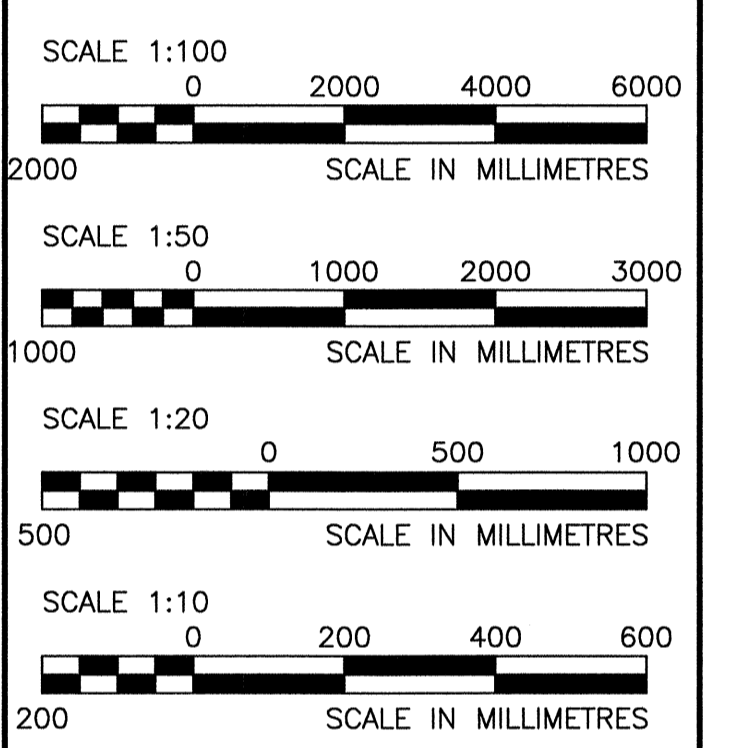
NO CHANGE TO ORIGINAL CAPACITY

- NOTES:
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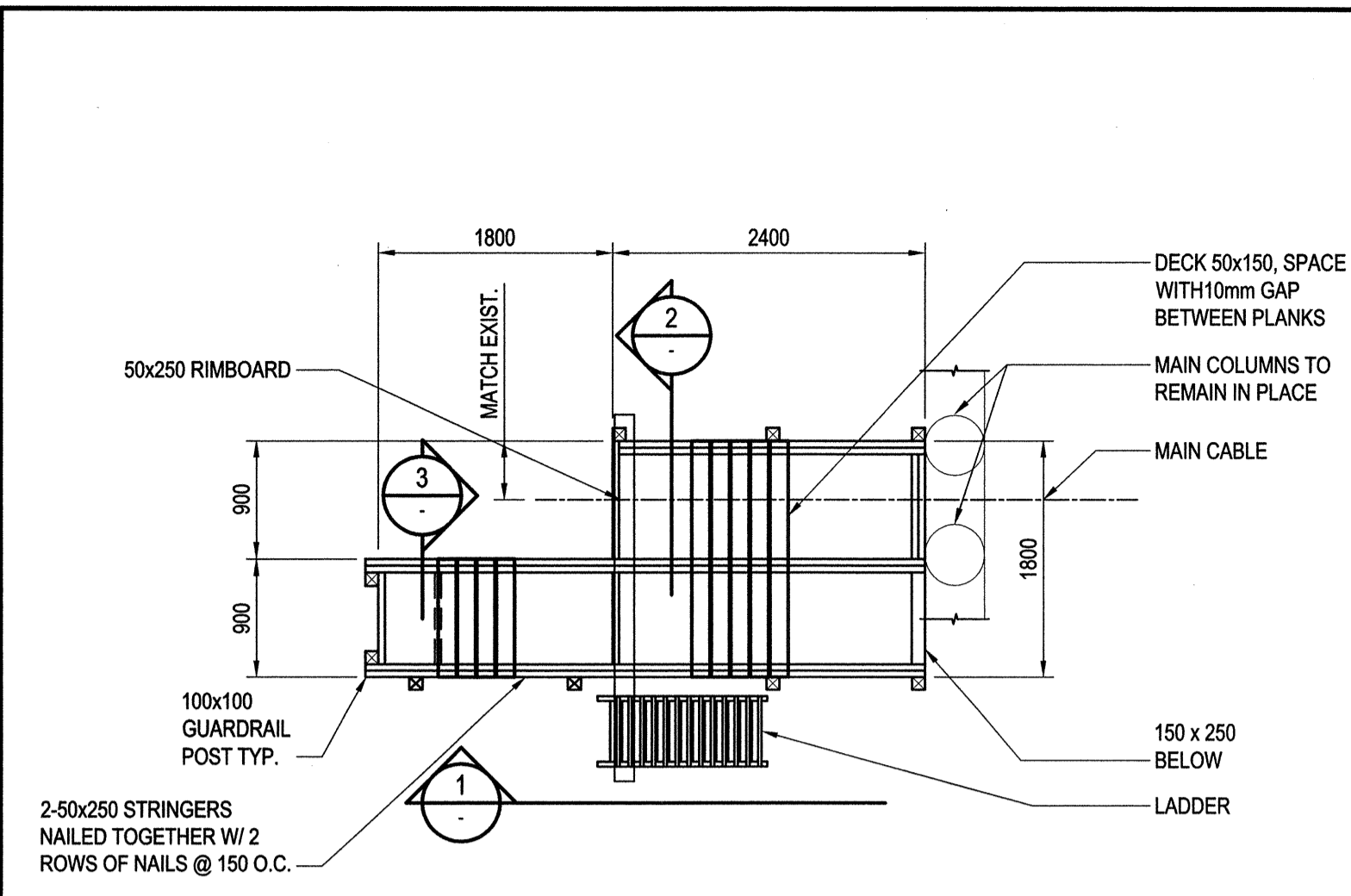
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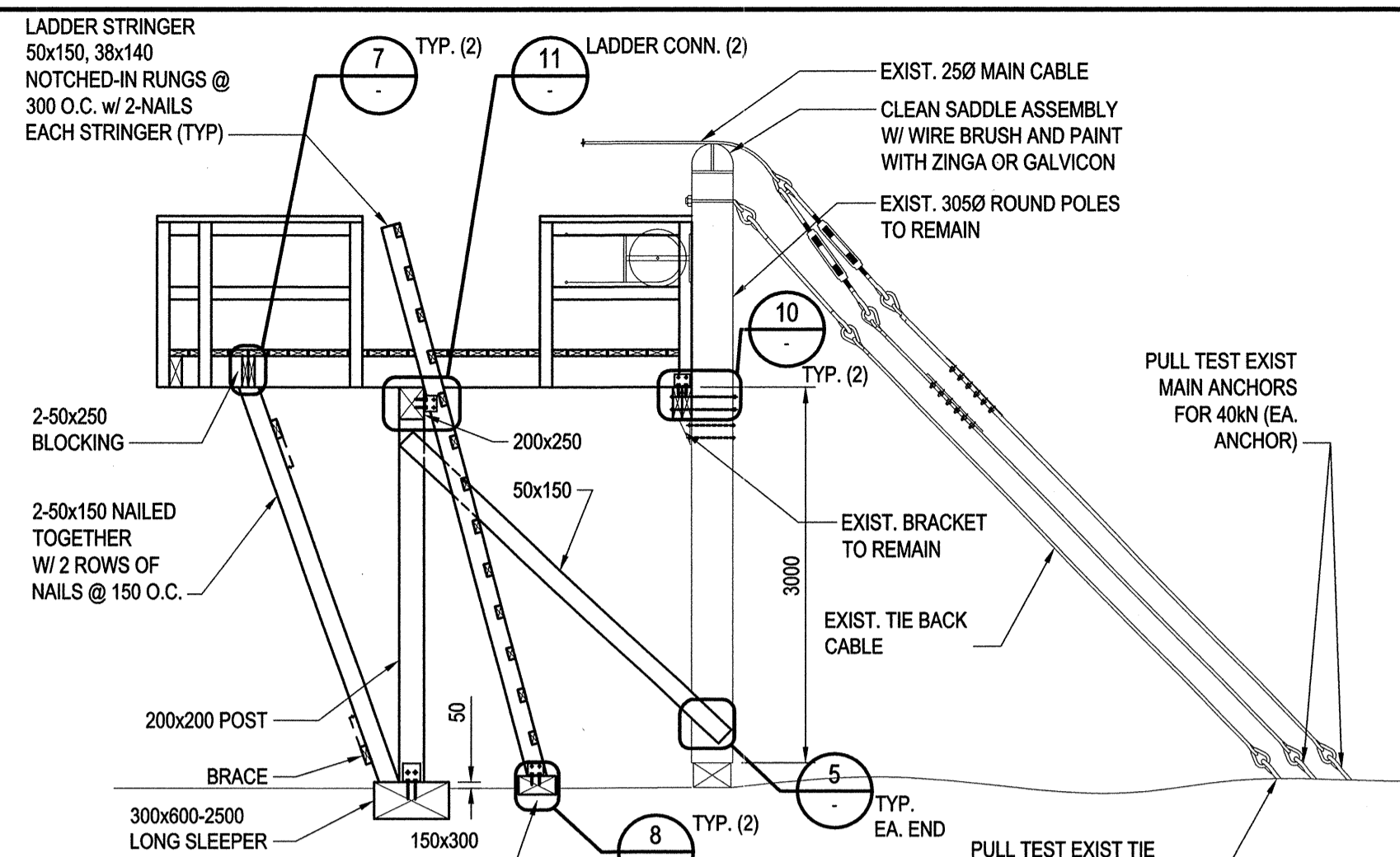
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**CULLITE CABLE CAR CROSSING REPAIR:
EAST TOWER**

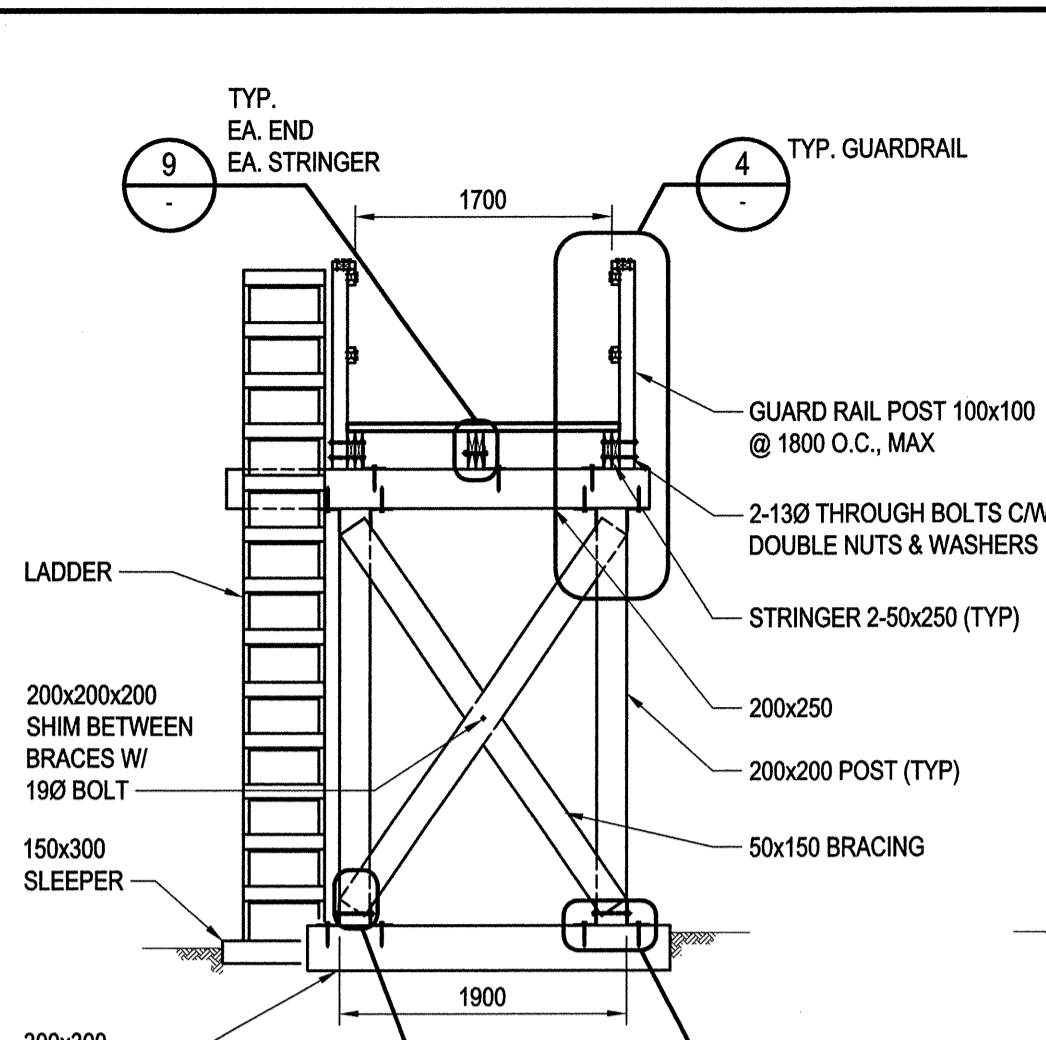
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R.064182.001	S-4 OF 9	1



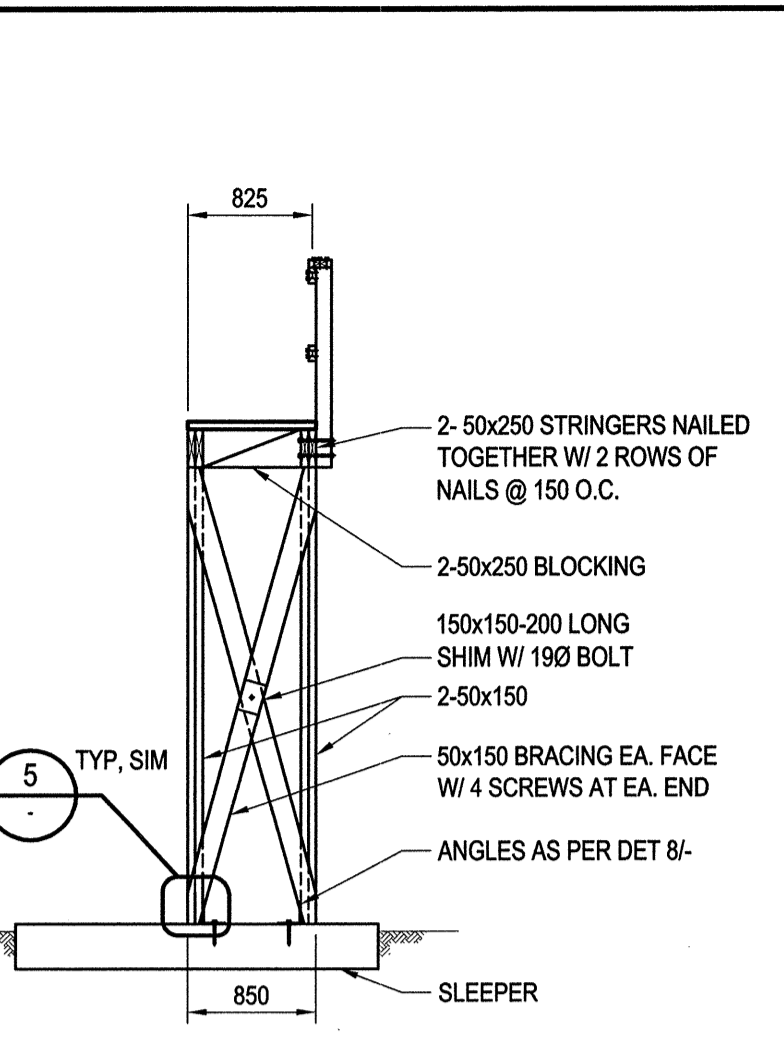
EAST TOWER PLATFORM - PLAN
1:50



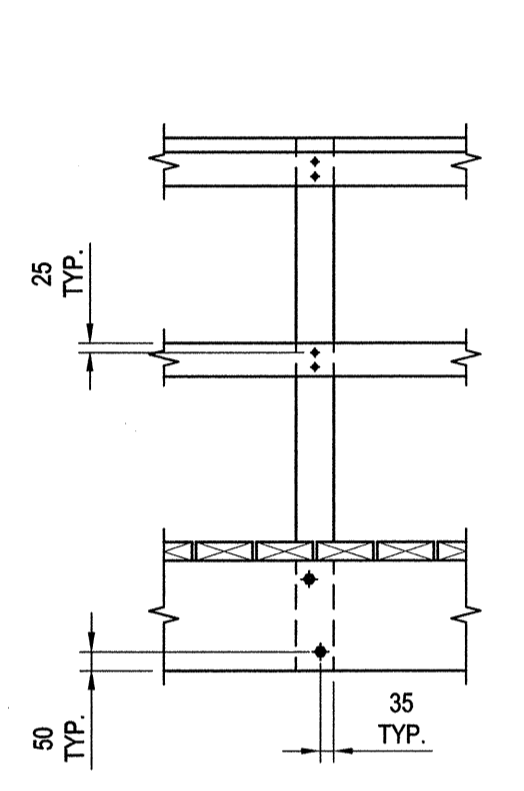
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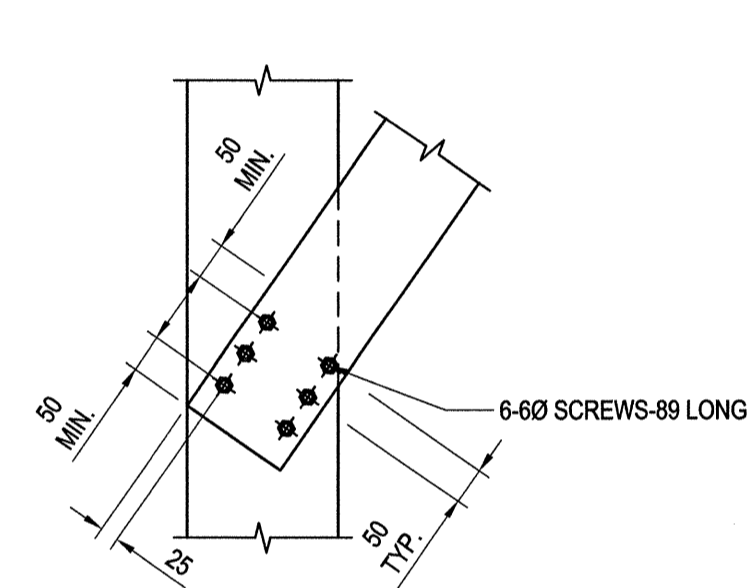
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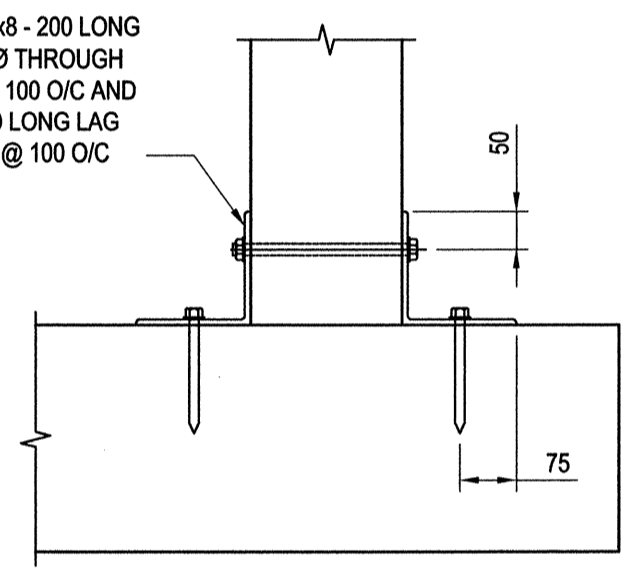
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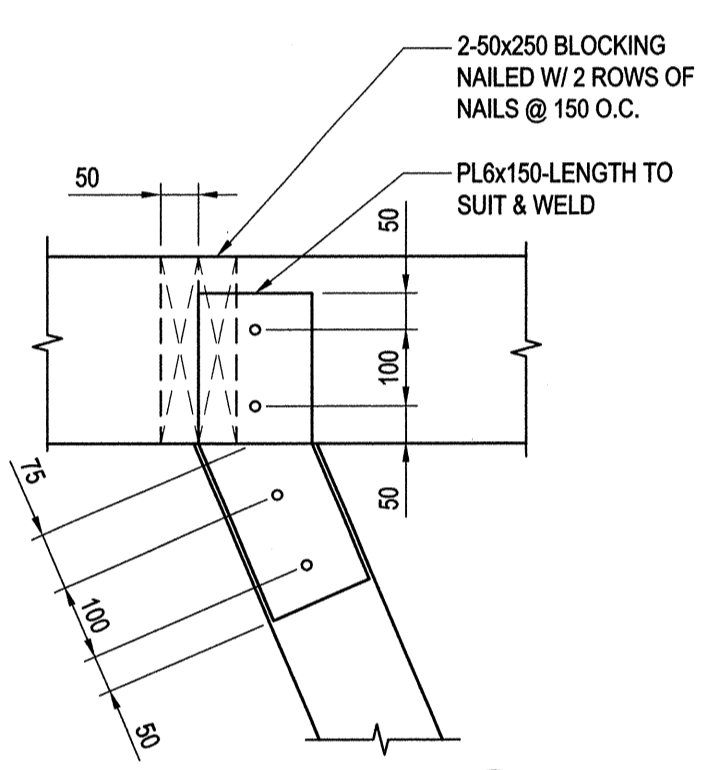
4 TYPICAL GUARDRAIL DETAIL
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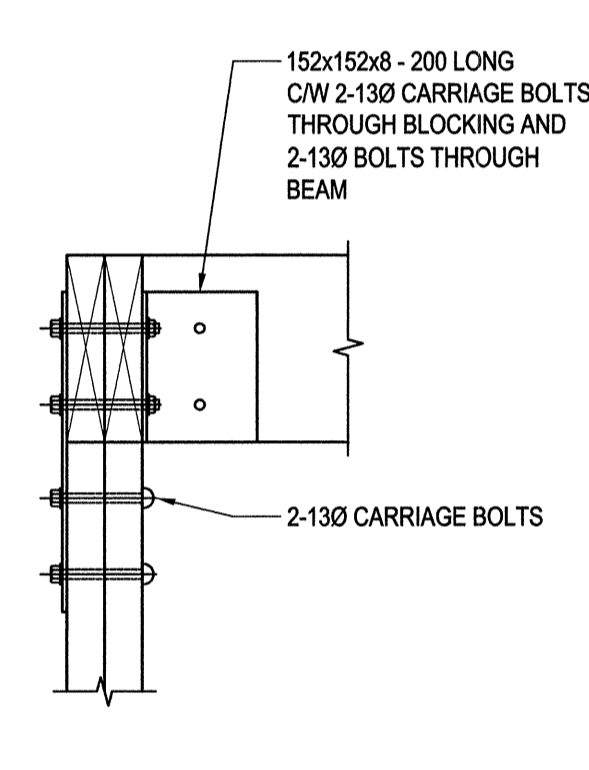
5 TYP. BRACE CONN.
1:10



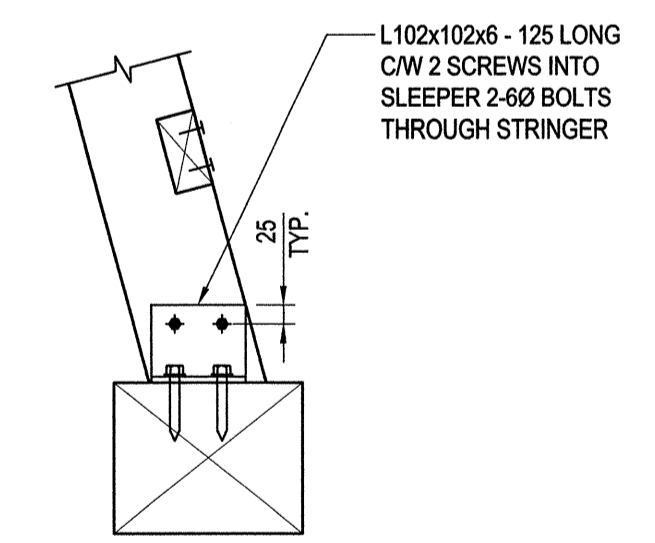
6 DETAIL
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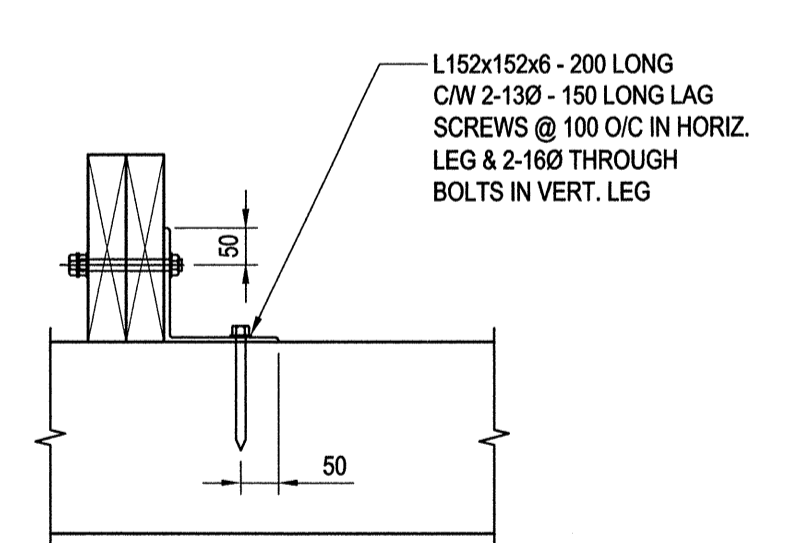
7 DETAIL
S-2, S-4 1:10



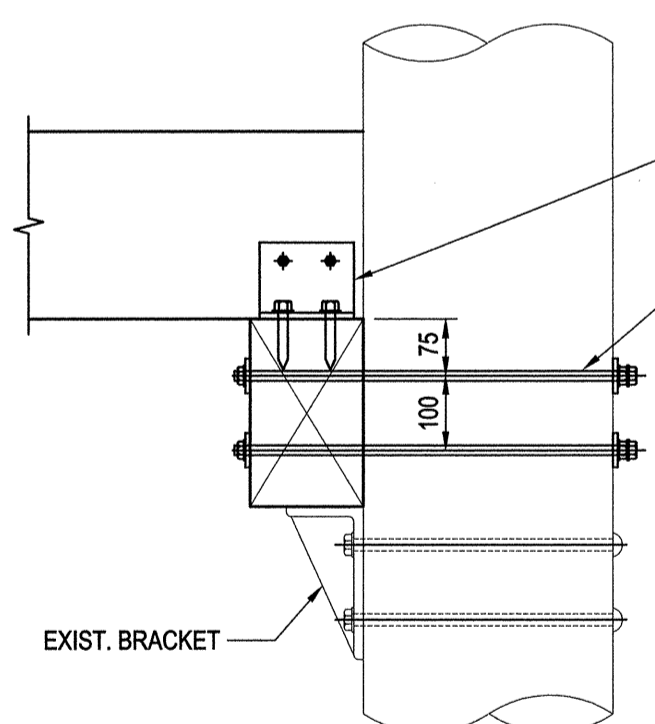
8 DETAIL
S-2, S-4 1:10



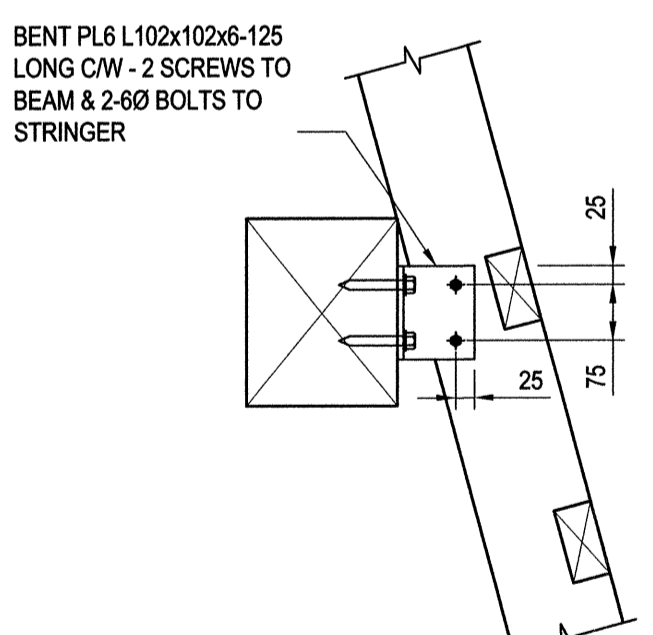
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S-2, S-4 1:10



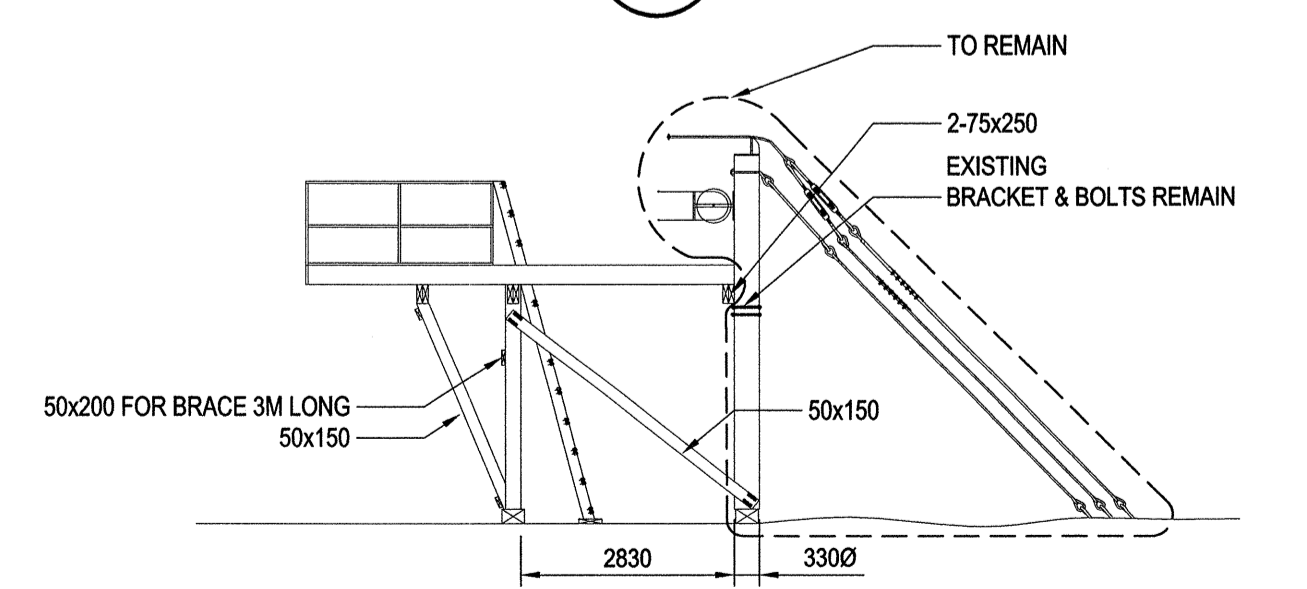
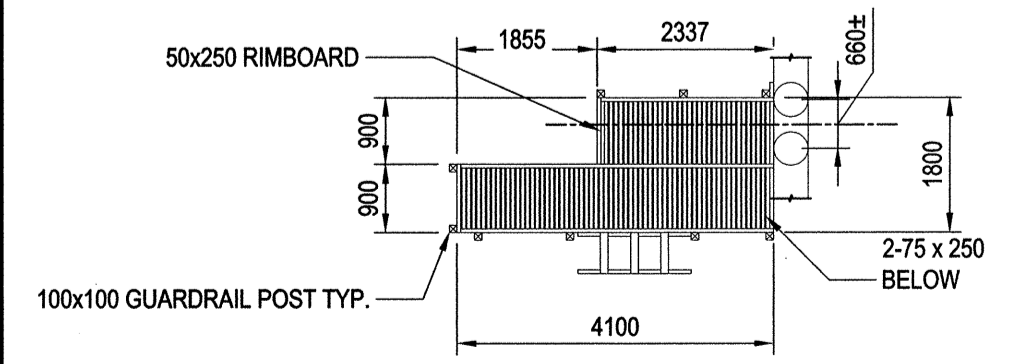
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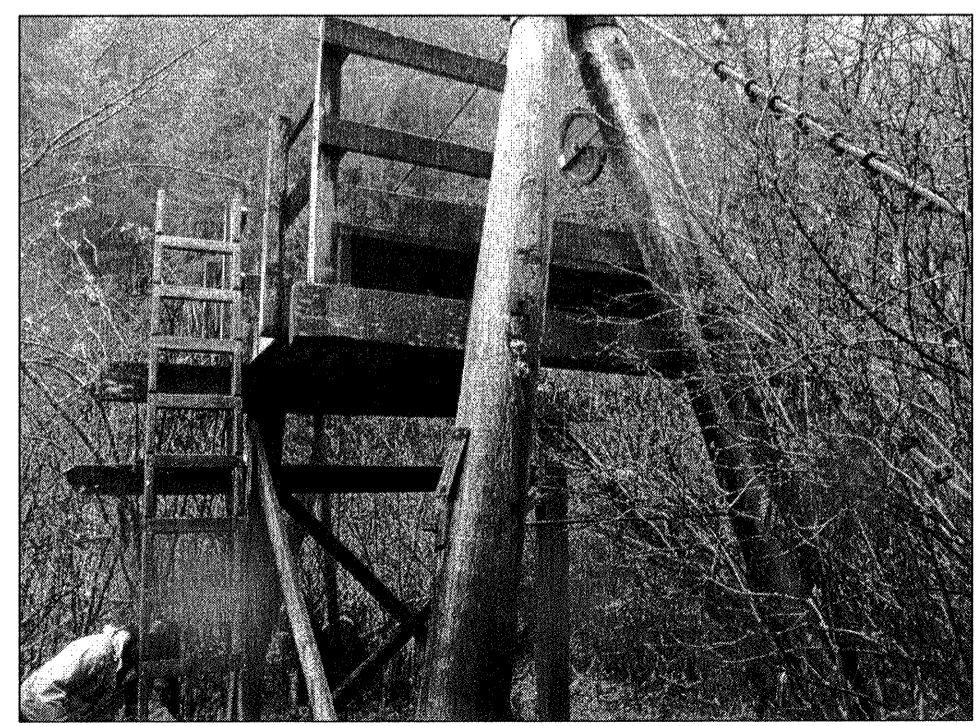
10 DETAIL
1:10



11 DETAIL
S-2, S-4 1:10



EXISTING EAST TOWER TO BE REMOVED (EXCEPT CABLES AND 2 MAIN COLUMNS)



EXISTING EAST TOWER

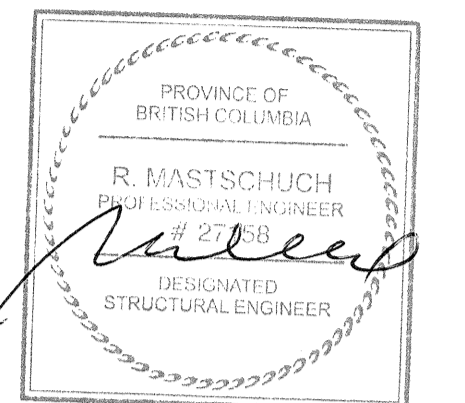
NO CHANGE TO ORIGINAL CAPACITY

- NOTES:
- ALL NAILS TO BE GALVANIZED 4.20 x 89 LONG, TYP. U.N.O.
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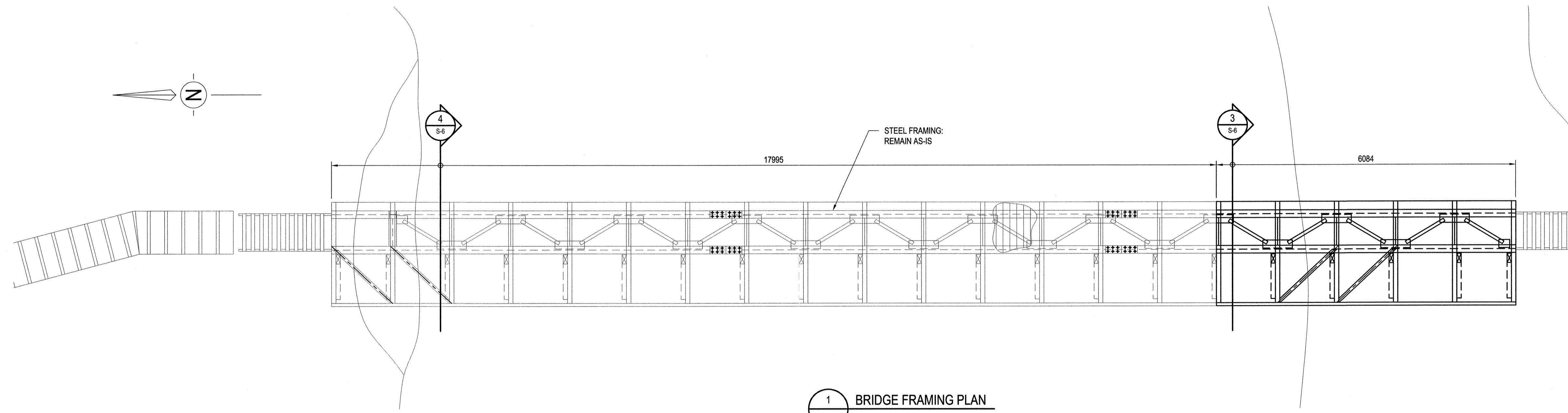




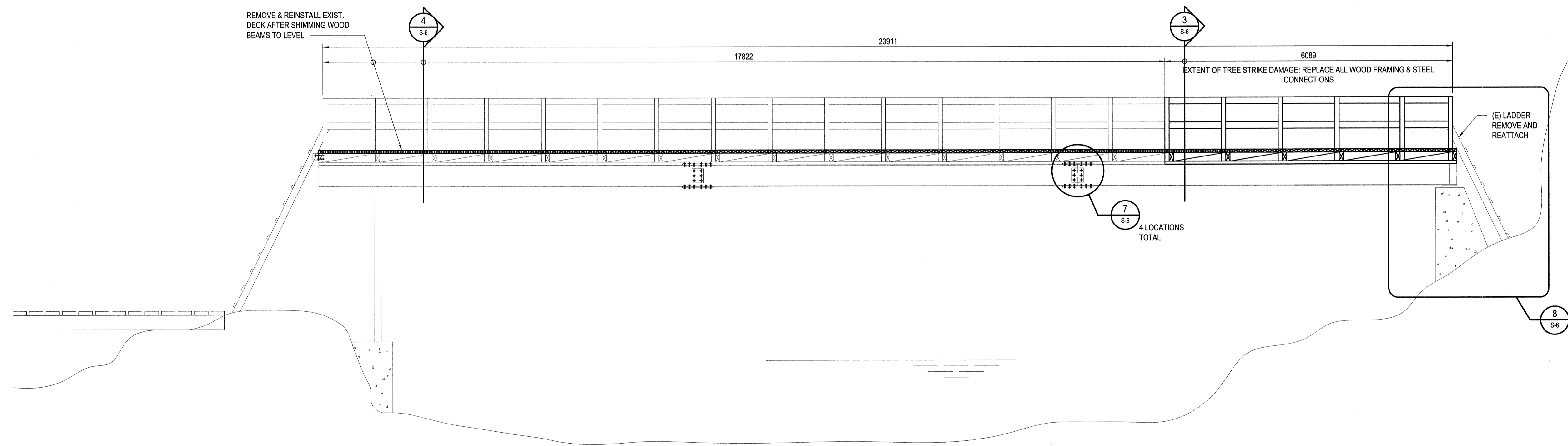
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VANCOUVER BRITISH COLUMBIA CANADA V6J 4Y3
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JOB No. 151-2288-03



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1 BRIDGE FRAMING PLAN
1:50



2 BRIDGE ELEVATION
1:50

SCALE 1:50
0 1000 2000 3000
SCALE IN MILLIMETRES

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0	ISSUED FOR TENDER	2015/11/2

Client/Client: Public Works and Government Services Canada

800 Burrard Street - 12th Floor
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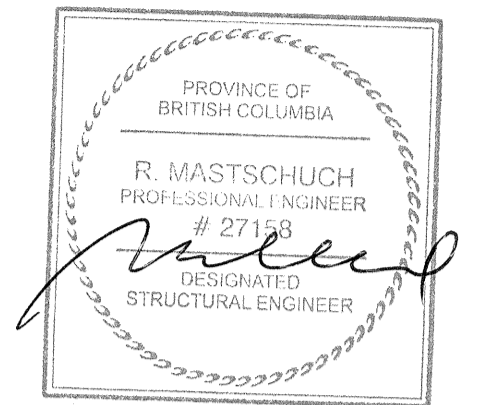
Drawing title/Titre du dessin: BRIDGE 92 REPAIR: PLAN AND ELEVATION

Project No./No. du projet: R.064182.001	Sheet/Feuille: S-5 OF 9	Revision no./Loi révision: 0
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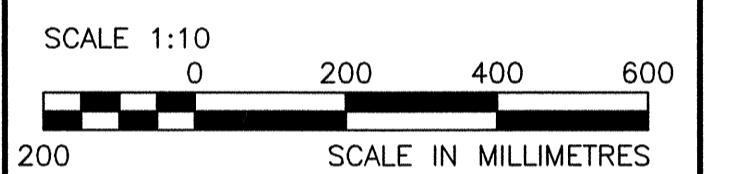
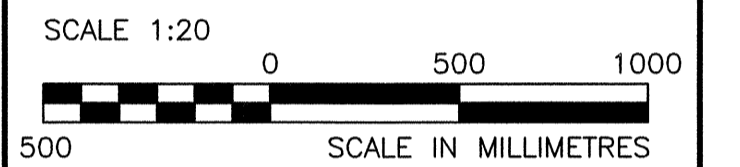
"NO CHANGE TO ORIGINAL CAPACITY"

- NOTES:
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 - ALL SCREWS TO BE 6mm DIAMETER x89 LONG SELF TAPPING GALVANIZED SCREWS U.N.O.
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G.M.

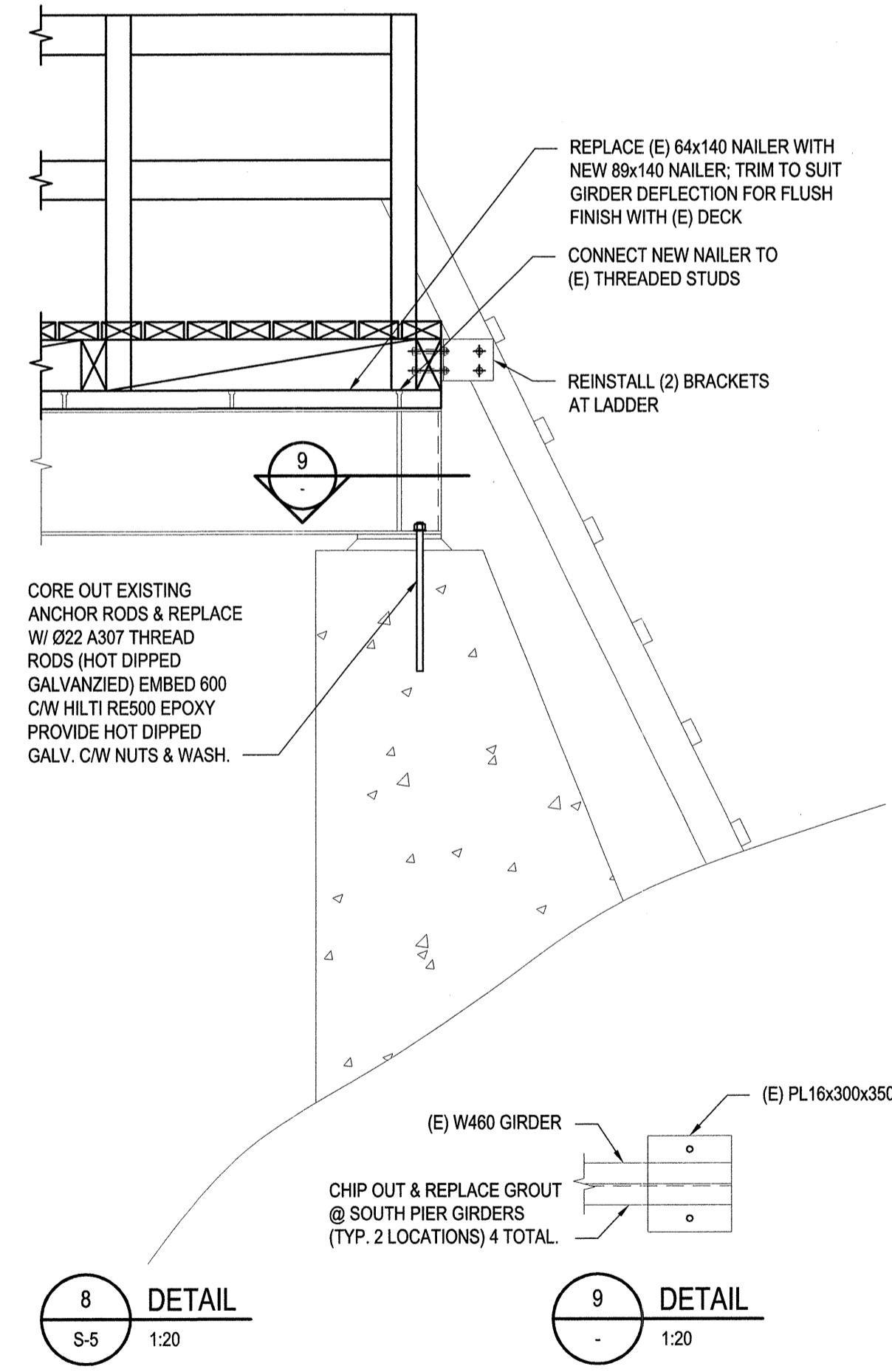
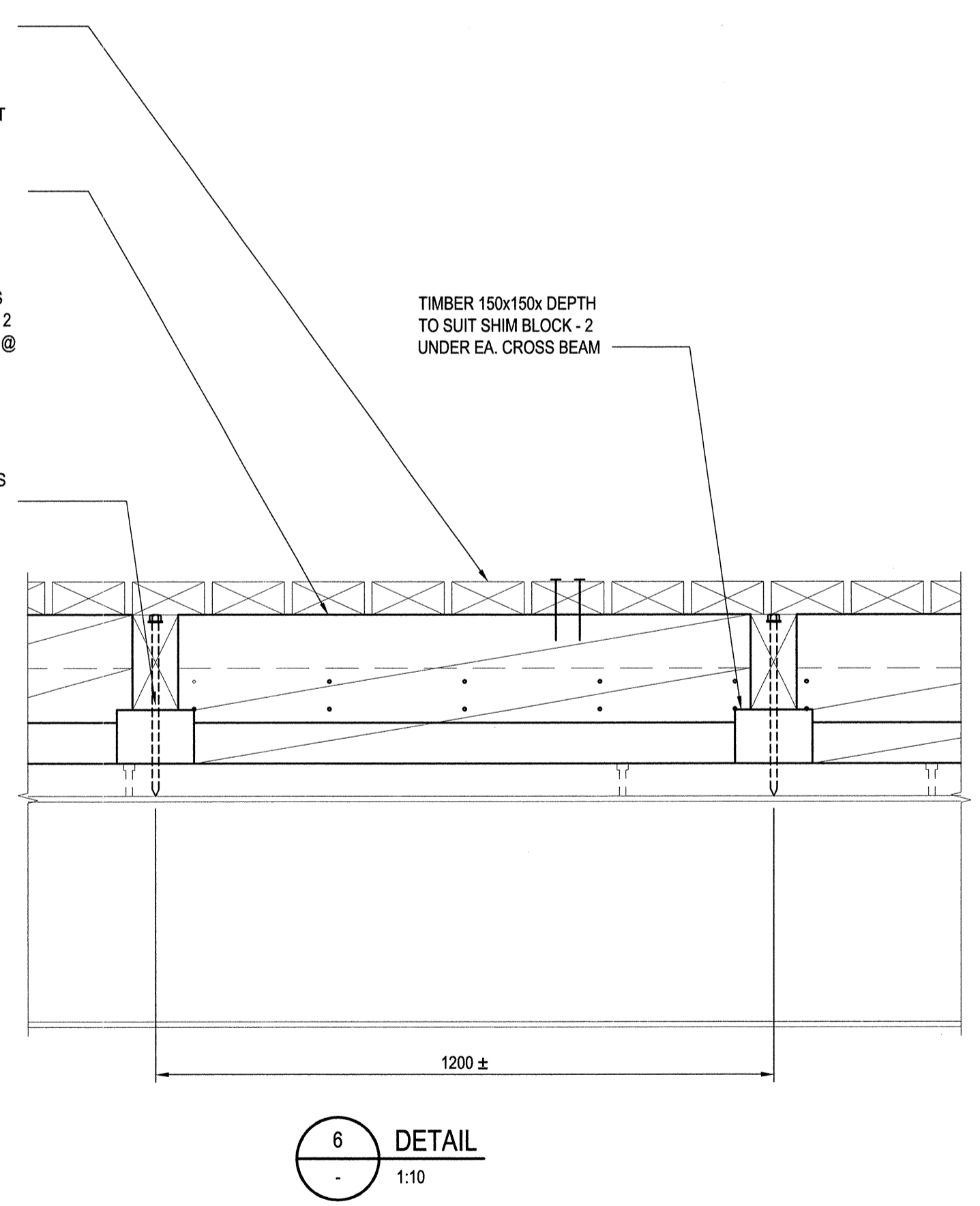
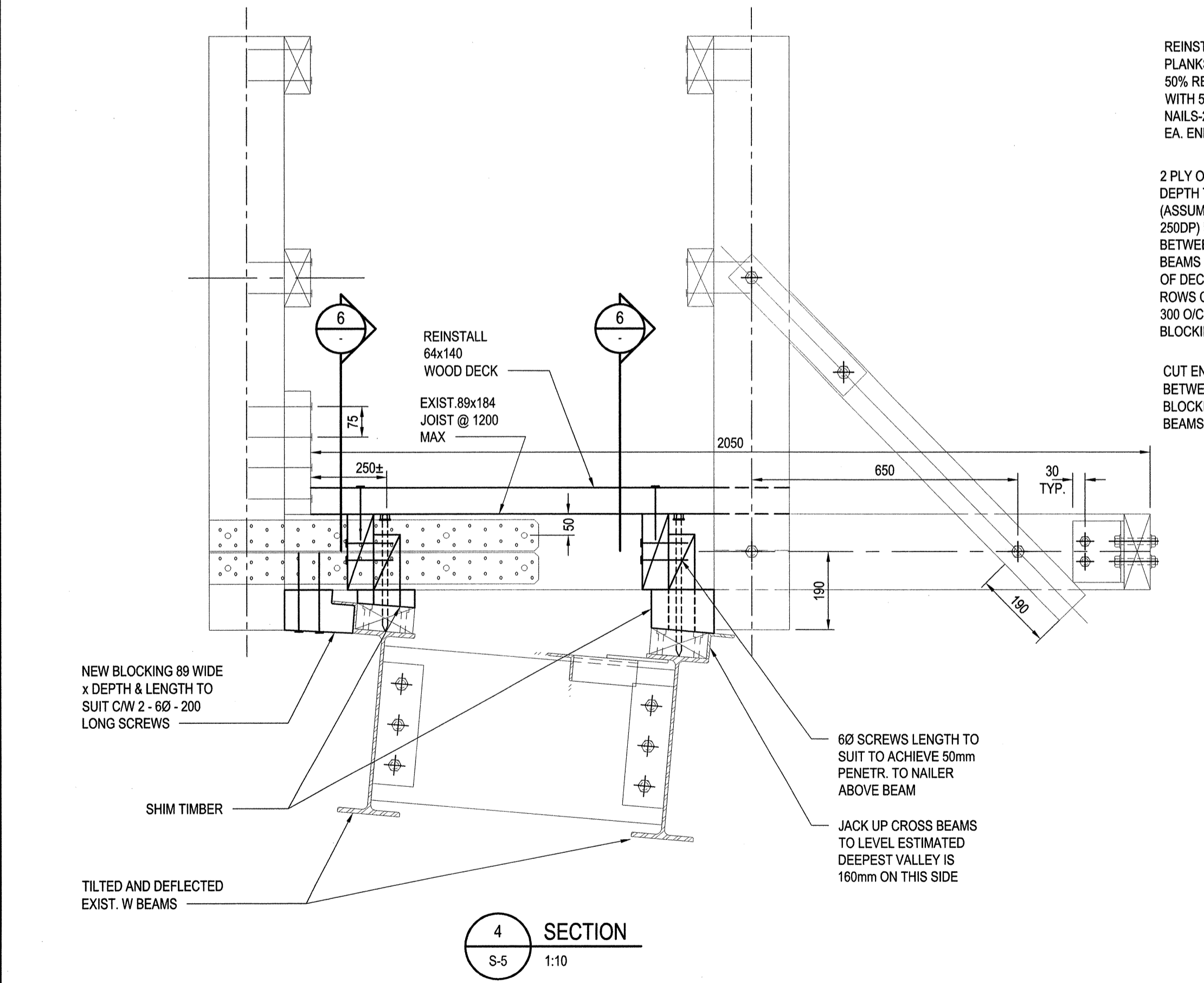
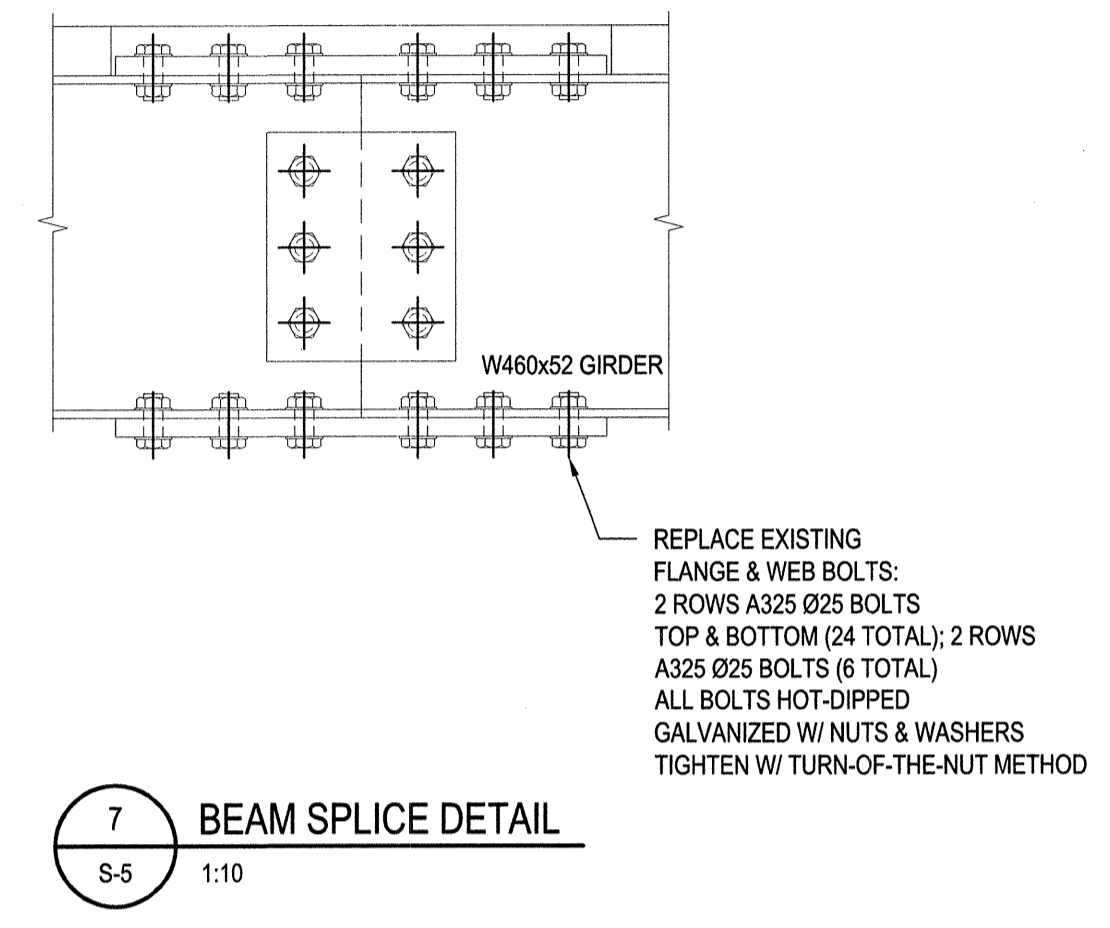
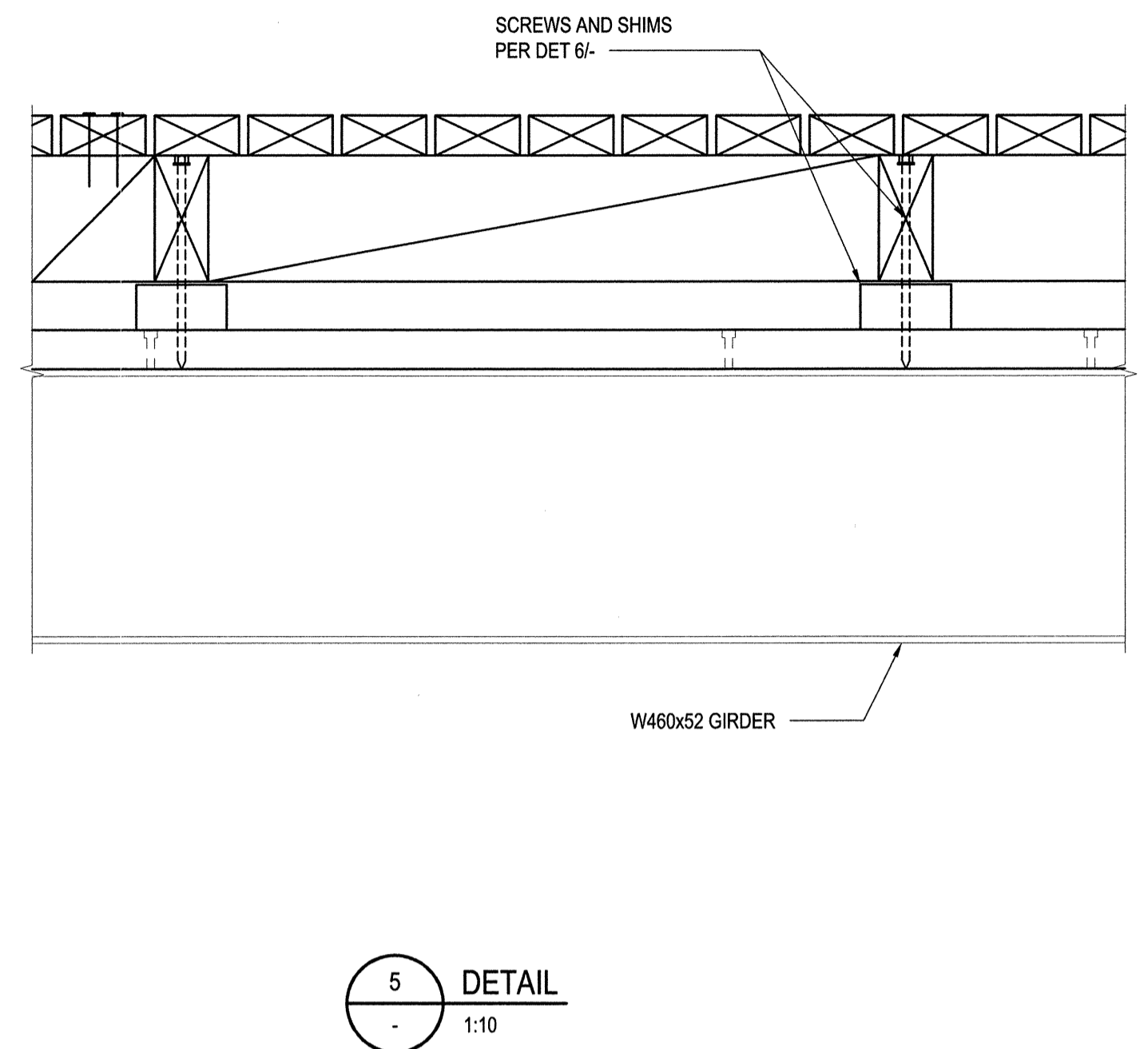
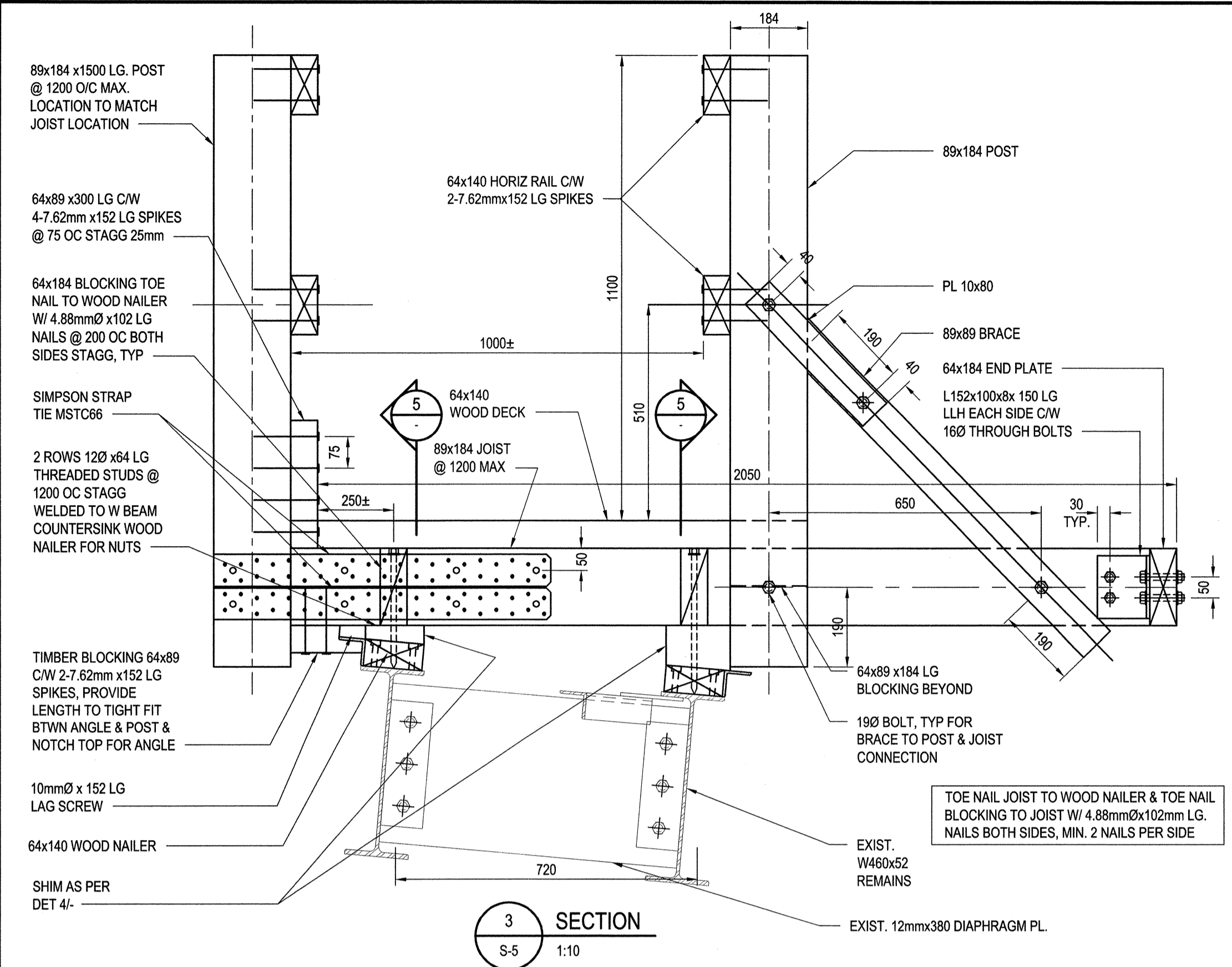
PWGC Project Manager/Administrateur de Projets TPSC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSC

Drawing title/Titre du dessin

**BRIDGE 92 REPAIR:
SECTIONS AND DETAILS**

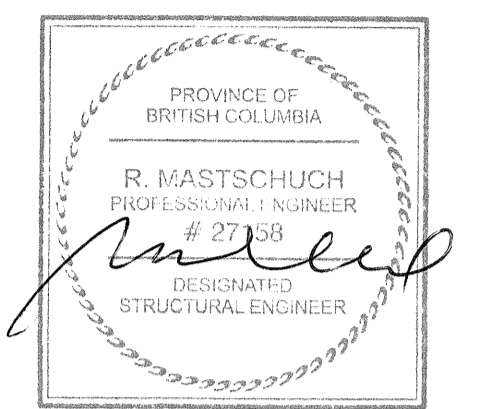
Project No./No. du projet R.064182.001	Sheet/Feuille S-6 OF 9	Revision no./ Lo révision 0
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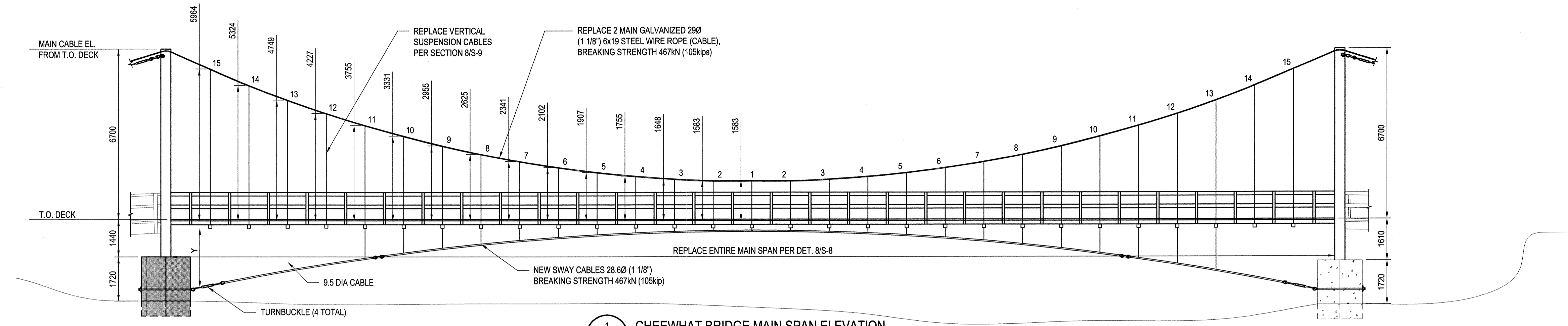
"NO CHANGE TO ORIGINAL CAPACITY"

- NOTES:
- ALL NAILS TO BE GALVANIZED 3.3mmØ (0.131Ø) x 75 LONG, TYP U.N.O.
 - ALL SCREWS TO BE 6mm DIAMETER x 89 LONG SELF TAPPING GALVANIZED SCREWS U.N.O.
 - ALL STEEL TO BE HOT DIPPED GALVANIZED
 - ALL WOOD STRINGERS AND GUARDRAIL POSTS TO BE No. 1 CEDAR, OTHER WOOD ELEMENTS TO BE No. 2 CEDAR
 - FOR METHODS OF CONSTRUCTION, QUALITY OF WORKMANSHIP AND MATERIAL AND FOR STANDARDS AND CODES, REFER TO SPECIFICATIONS THAT ARE PART OF THE CONTRACT DOCUMENTS
 - (E) DENOTES EXISTING
 - POSTS TO BE 300mm LONGER AND FIELD CUT TO SUIT
 - ALL EXISTING DIMENSIONS TO BE SITE CONFIRMED, LONGER MEMBERS THAN SHOWN TO BE PROVIDED AND FIELD CUT TO SUIT

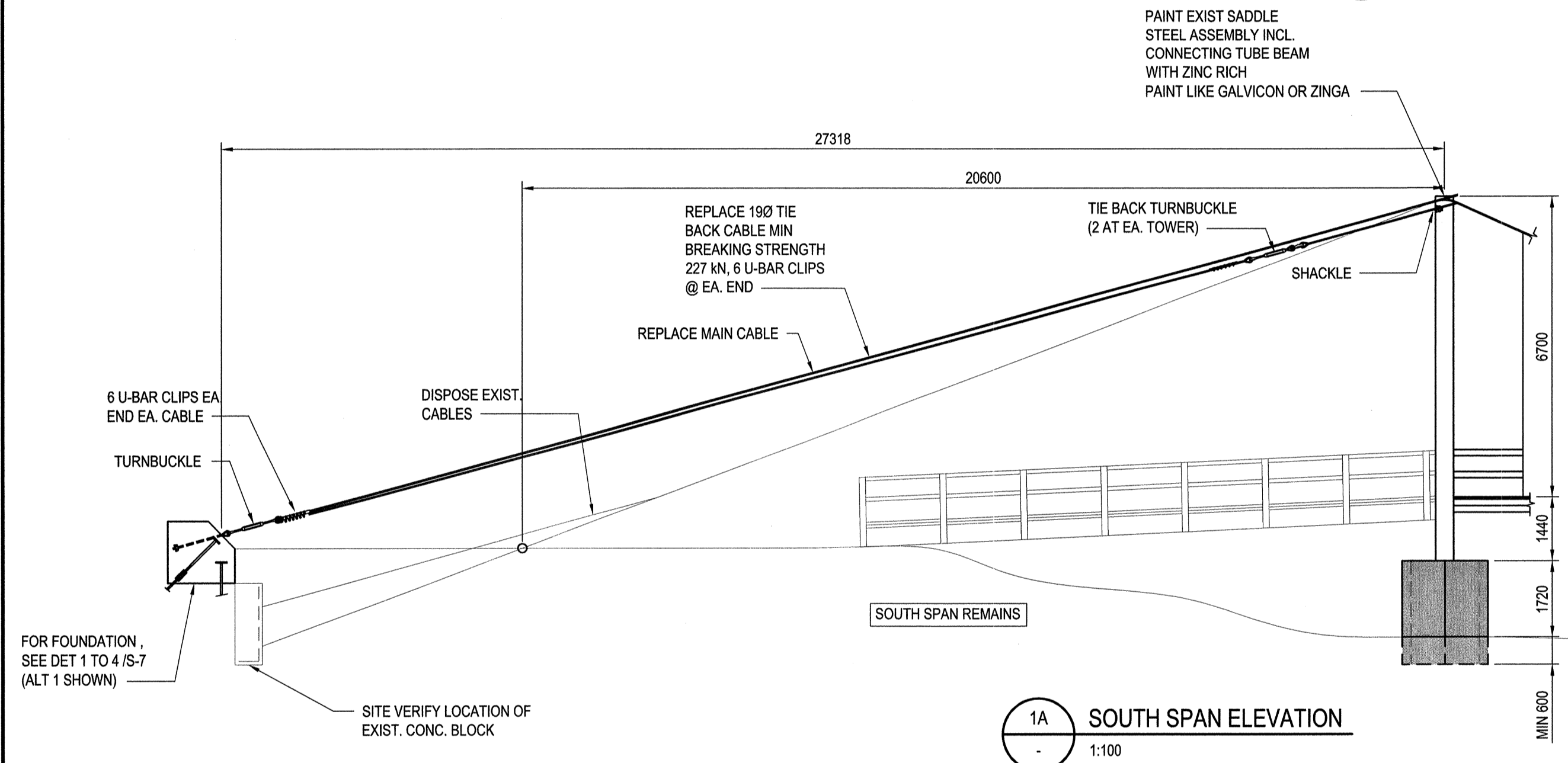




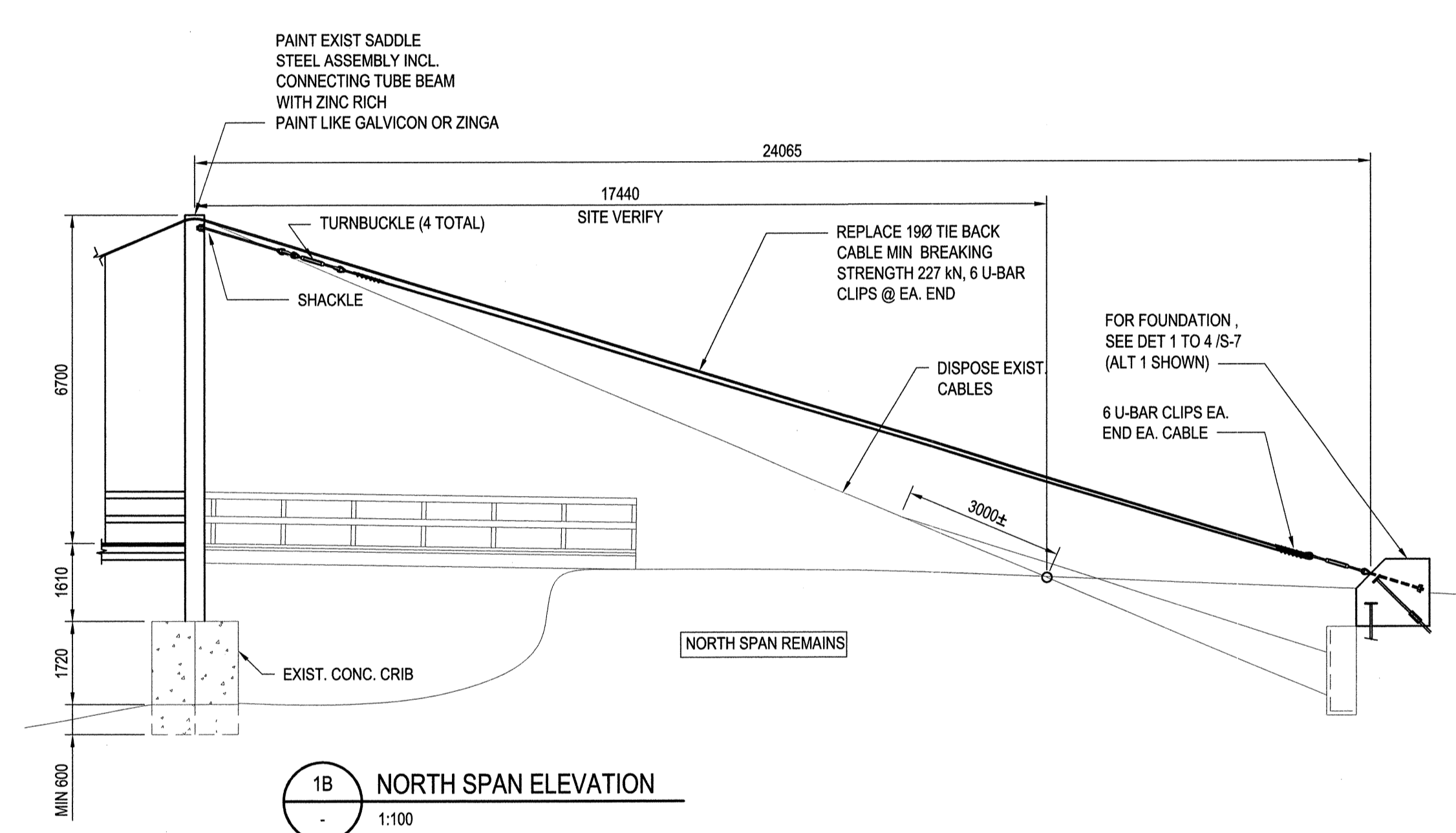
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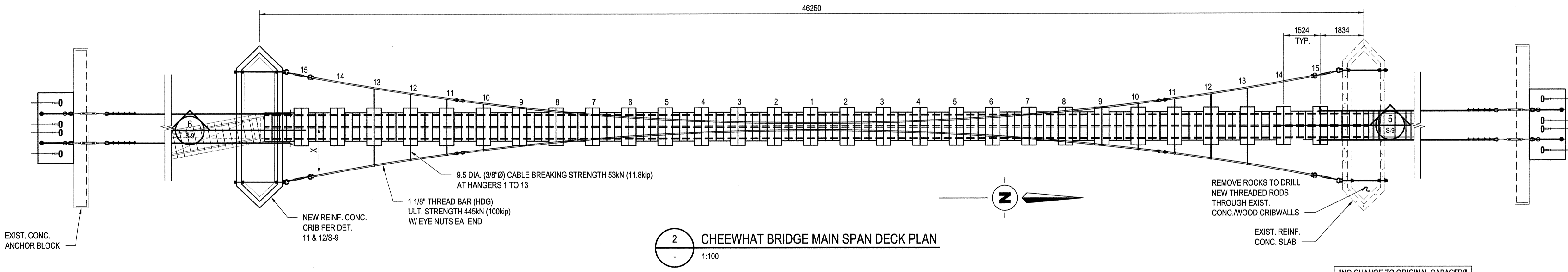
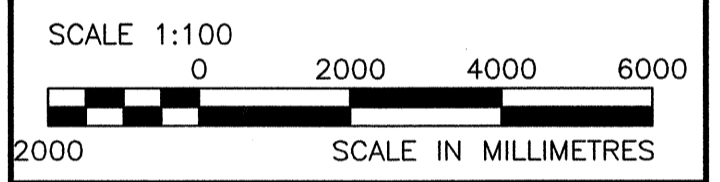
1 CHEEWHAT BRIDGE MAIN SPAN ELEVATION
1:100



1A SOUTH SPAN ELEVATION
1:100



1B NORTH SPAN ELEVATION
1:100



2 CHEEWHAT BRIDGE MAIN SPAN DECK PLAN
1:100

SWAY CABLE GEOMETRY															NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
X (mm)	150	150	150	244	316	409	522	655	809	956	1180	1396	1633	1892	2171	TO CENTRE OF BRIDGE
Y (mm)	100	100	100	197	272	367	484	622	782	962	1165	1388	1634	1901	2191	TO U/S OF CROSS BEAM

"NO CHANGE TO ORIGINAL CAPACITY"

- NOTES:
- ALL NAILS TO BE GALVANIZED 4.0 x 89 LONG, TYP U.N.O.
 - ALL SCREWS TO BE 5mm DIAMETER x 89 LONG SELF-TAPPING GALVANIZED SCREWS U.N.O.
 - ALL STEEL TO BE HOT DIPPED GALVANIZED
 - ALL WOOD STRINGERS AND GUARDRAIL POSTS TO BE No. 1 CEDAR, OTHER WOOD ELEMENTS TO BE No. 2 CEDAR
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 - ALL ROPE HARDWARE TO HAVE STRENGTH MATCHING OR EXCEEDING ROPE BREAKING STRENGTH
 - THREAD BARS TO BE HDG GRADE 75
 - STEEL CABLES TO BE TO ASTM A603 CLASS C

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	2015/11/2

Client/Client
Public Works and Government Services Canada
800 Burrard Street - 12th Floor
Vancouver B.C.

Project title/Titre du projet
**Pacific Rim National Park
Vancouver Island B.C.**

**West Coast Trail
Bridges Repair**

Consultant Signature Only
Designed by/Concept par
R.M.
Drawn by/Dessiné par
A.R.
PWSC Project Manager/Administrateur de Projets TPSC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSC

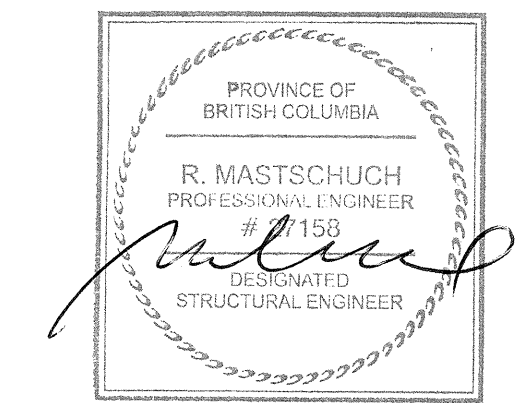
Drawing title/Titre du dessin
**CHEEWHAT SUSPENSION BRIDGE
REPAIR: PLANS AND ELEVATIONS**

Project No./No. du projet R.064182.001	Sheet/Fauille S-7 OF 9	Revision no./ no. de révision 0
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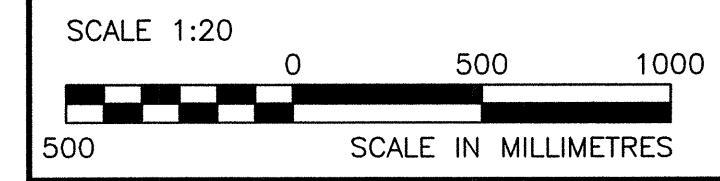
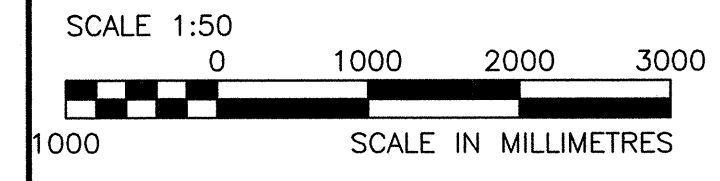




205-1185, BROADWAY W
VANCOUVER BRITISH COLUMBIA CANADA V6J 4T3
TEL: 604-736-5451 FAX: 604-736-5159 WWW.WSPGROUP.COM
JOB NO: 131-22289-03



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Revision/	Description/Description	Date/Date
1	ISSUED FOR TENDER	2015/11/9

Client/client

Public Works and Government Services Canada

800 Burrard Street - 12th Floor
Vancouver B.C.

Project title/Titre du projet
Pacific Rim National Park
Vancouver Island B.C.

West Coast Trail
Bridges Repair

Consultant Signature Only

Designed by/Concept par
R.M.

Drawn by/Dessiné par
A.R.

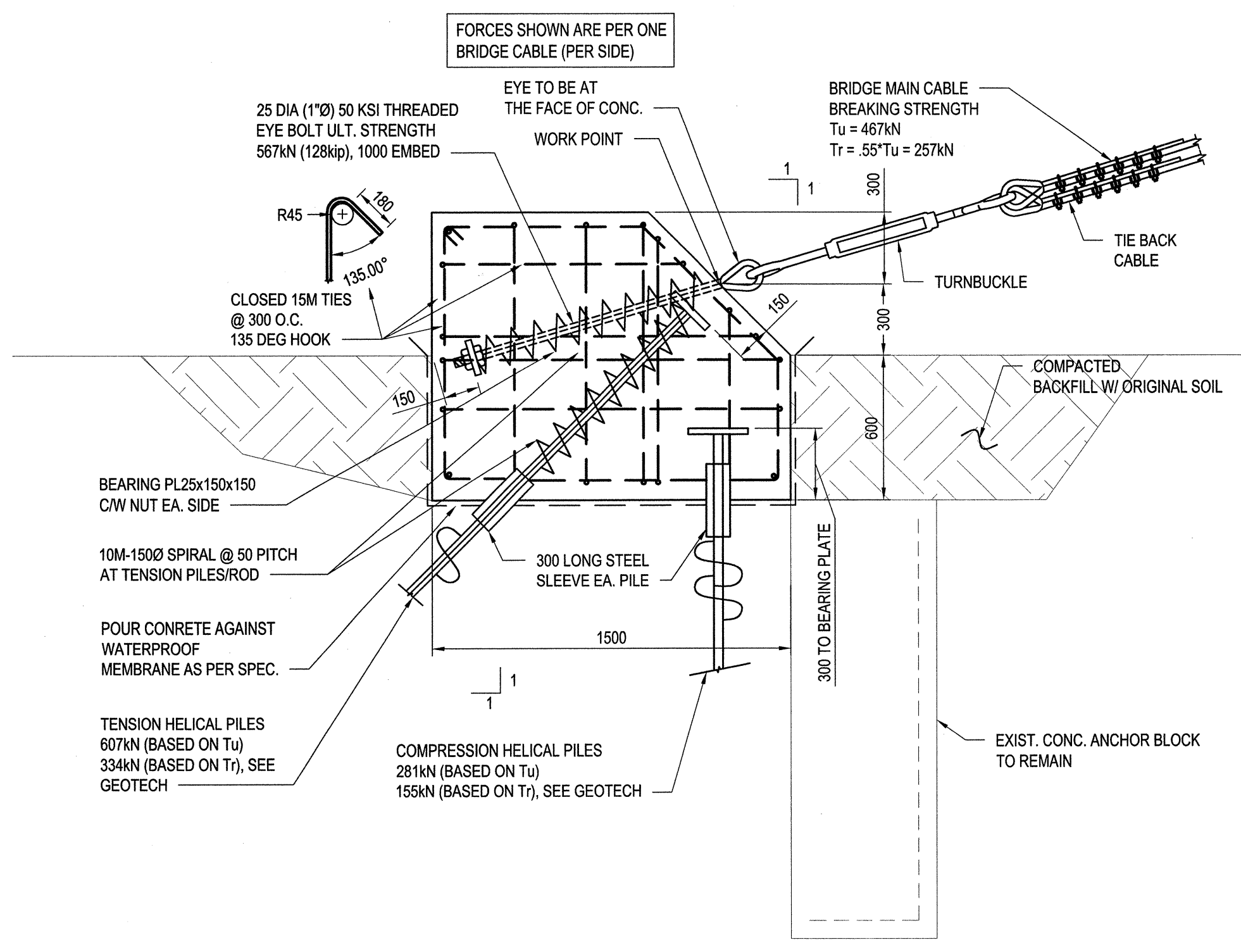
PWGSC Project Manager/Administrateur de Projets TPSCG
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

Drawing title/Titre du dessin

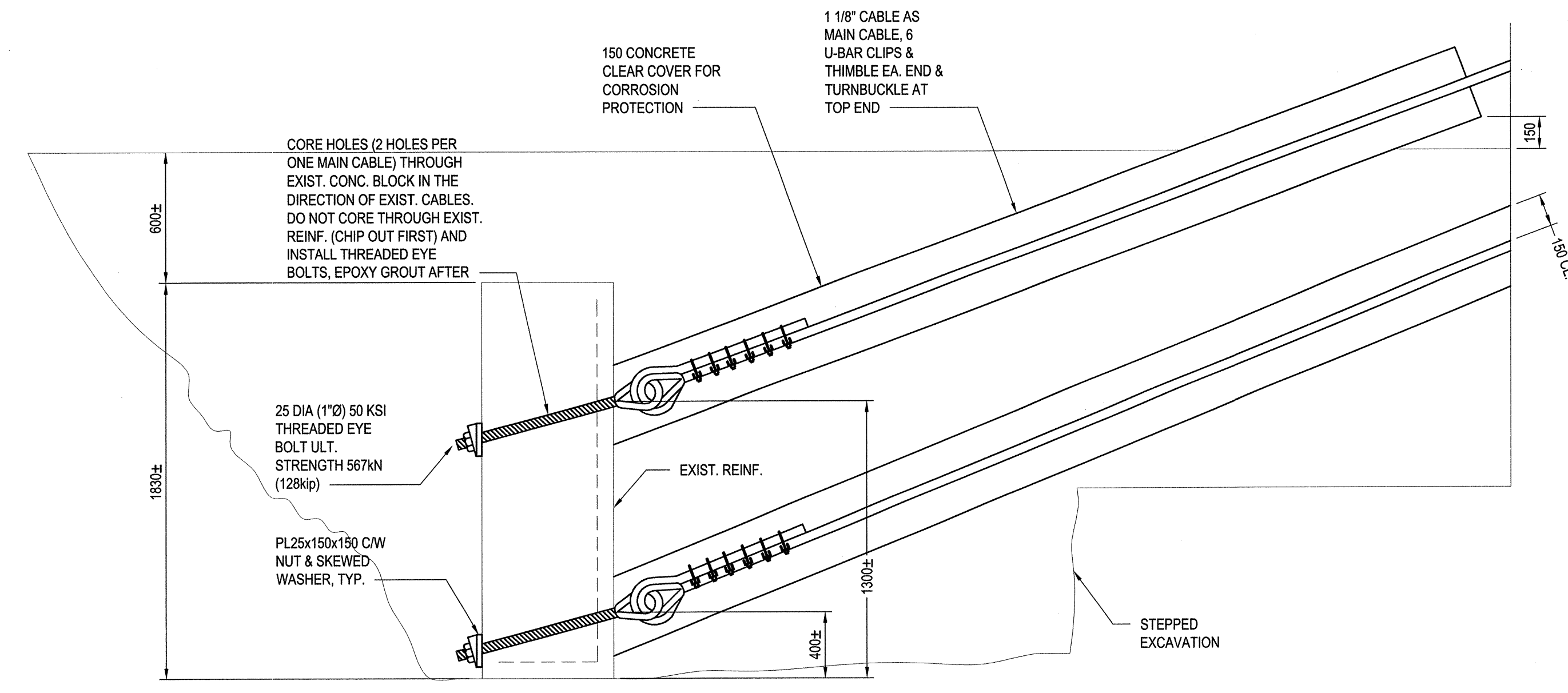
CHEEWHAAT SUSPENSION BRIDGE
REPAIR: SECTIONS AND DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
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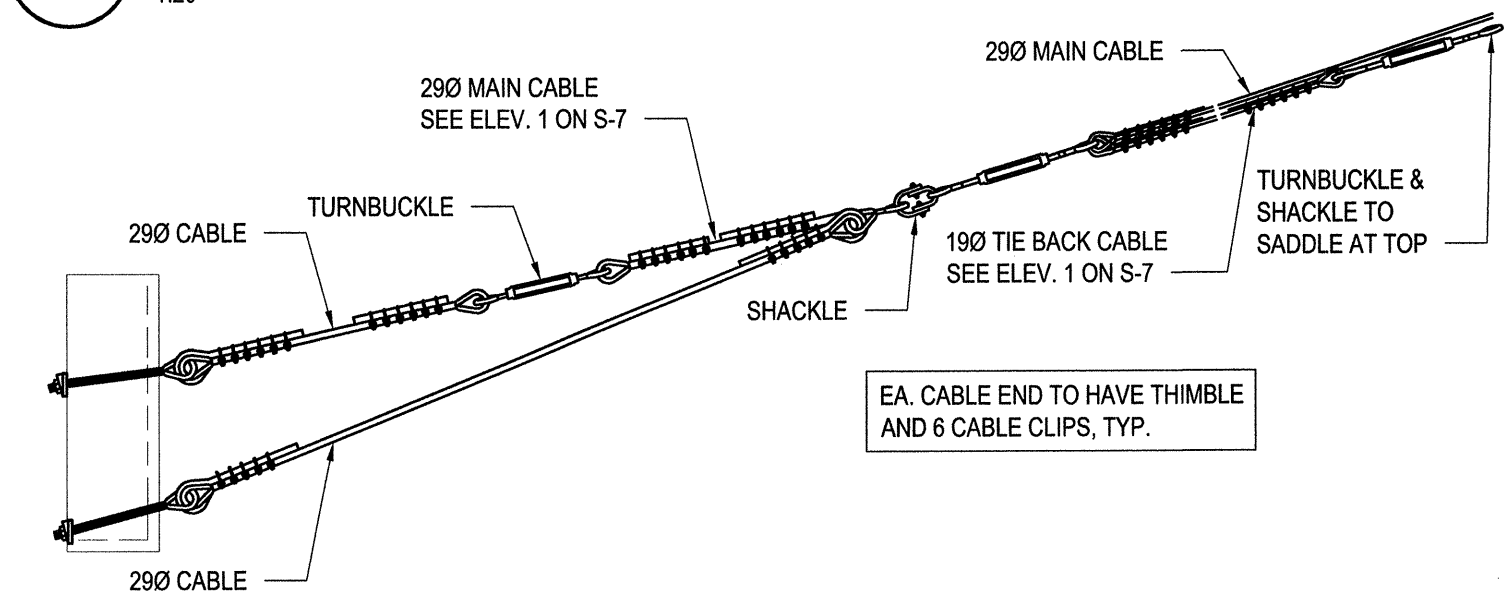


1 ALT 1 - ANCHOR SECTION
1:20

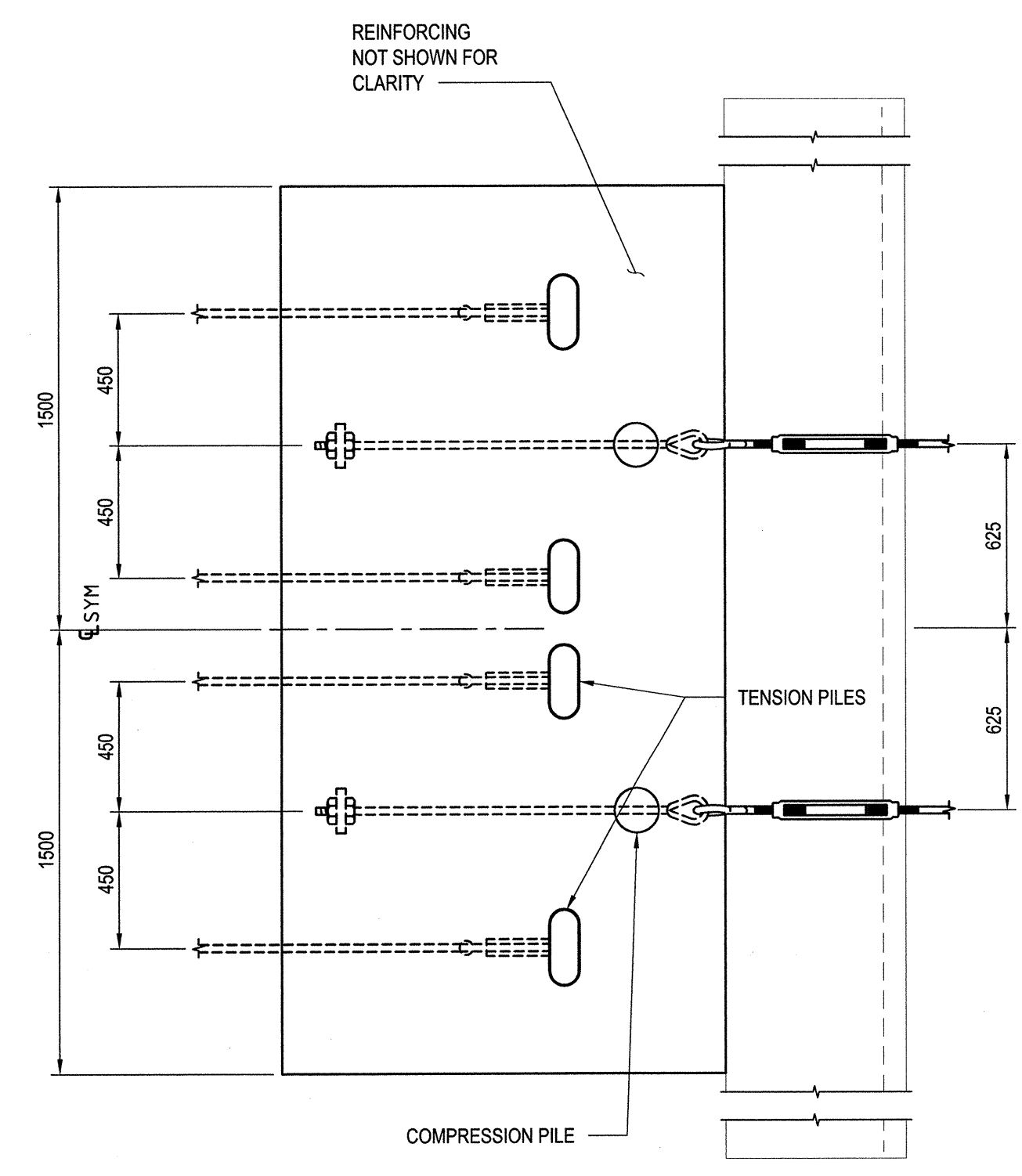
ASSUME ALTERNATIVE 1 FOR TENDER. PROVIDE SEPARATE PRICE FOR ALTERNATIVE 2



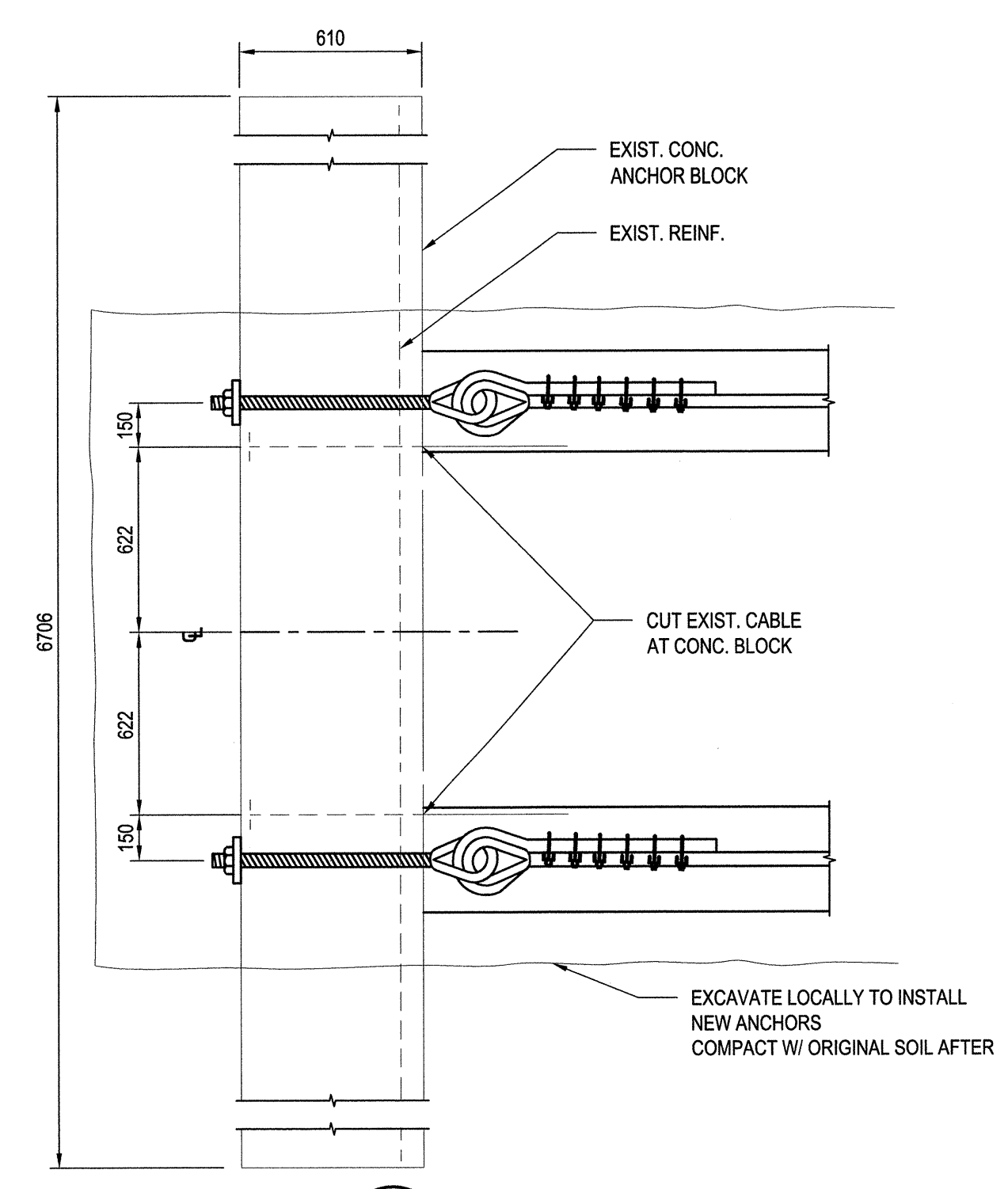
2 ALT 2 - ANCHOR SECTION
1:20



2A ALT 2 - CABLE LAYOUT
1:50



3 ALT 1 - ANCHOR PLAN
1:20

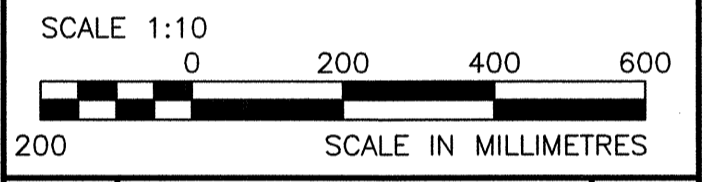
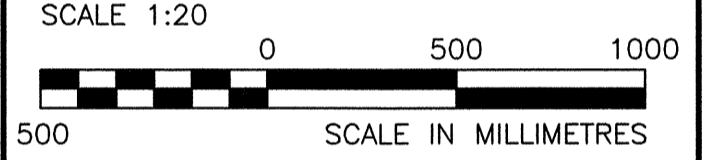
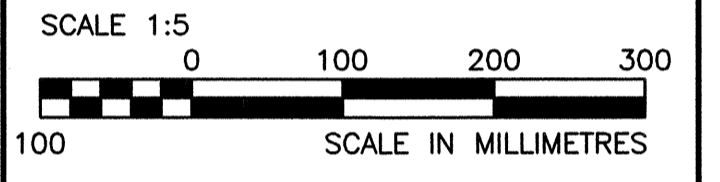


4 ALT 2 - ANCHOR PLAN
1:20

"NO CHANGE TO ORIGINAL CAPACITY"

- NOTES:
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Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	2015/11/2

Client/client
Public Works and Government Services Canada

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Bridges Repair**

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Regional Manager, Architectural and Engineering Services
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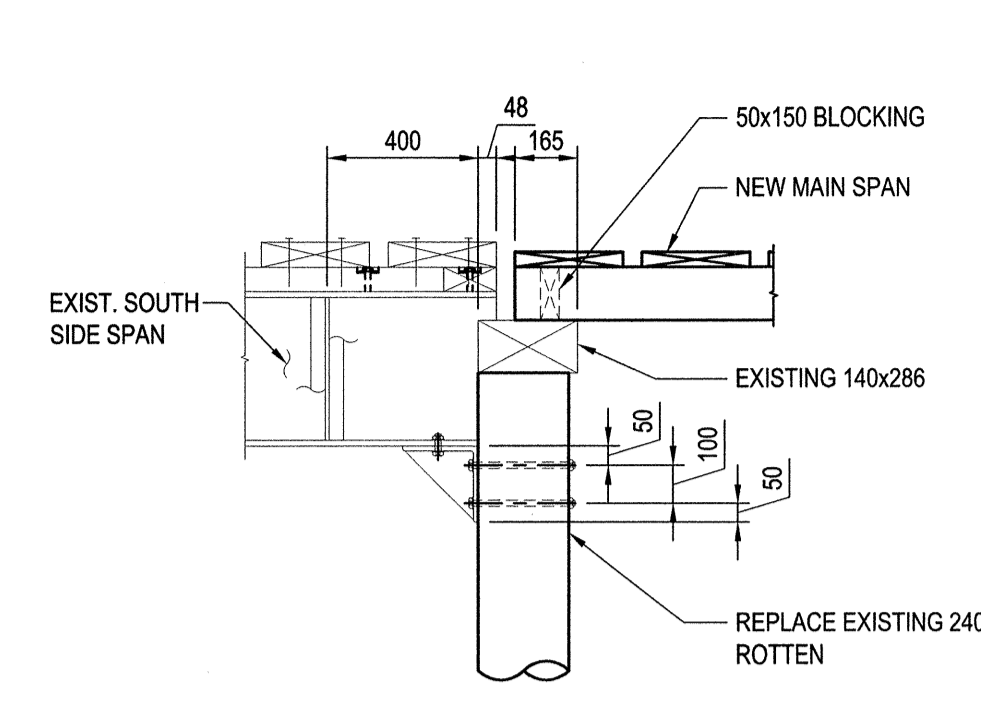
Drawing title/Titre du dessin

**CHEEWAT SUSPENSION BRIDGE
REPAIR: SECTIONS AND DETAILS**

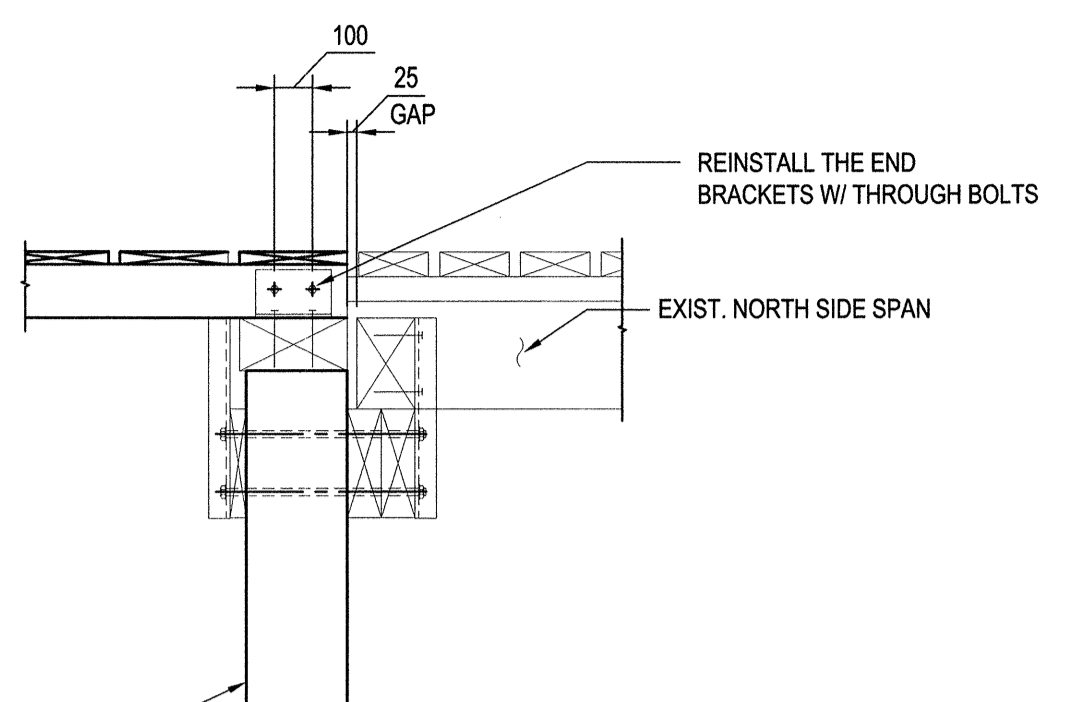
Project No./No. du projet
R.064182.001

Sheet/Feuille
S-9
OF 9

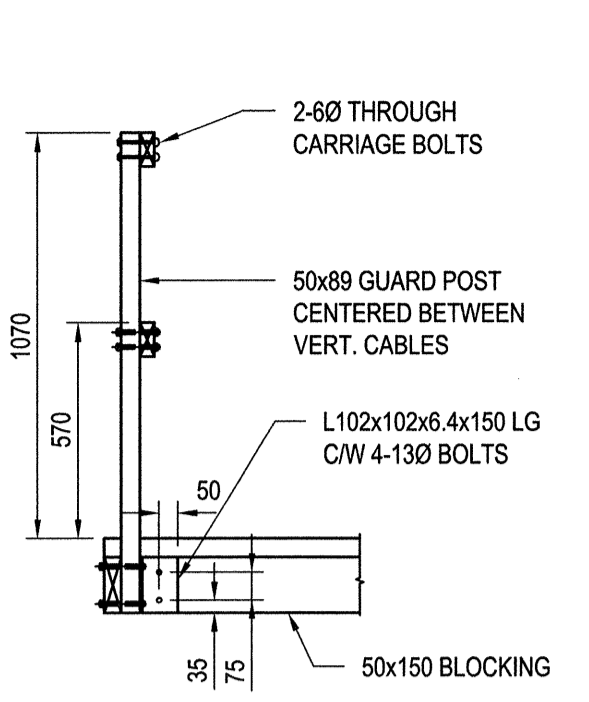
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no.
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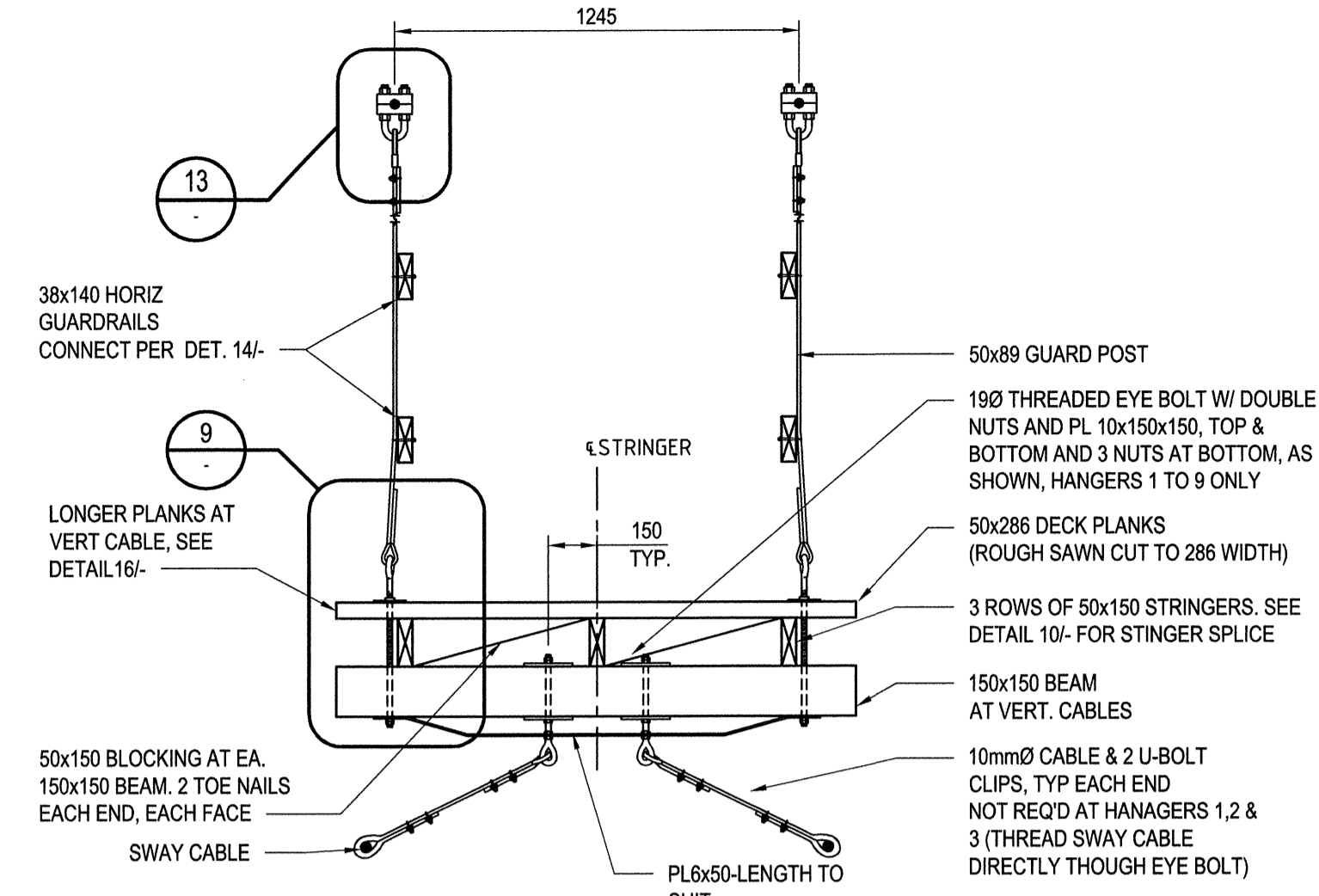
5 SOUTH DETAIL
S-7 1:20



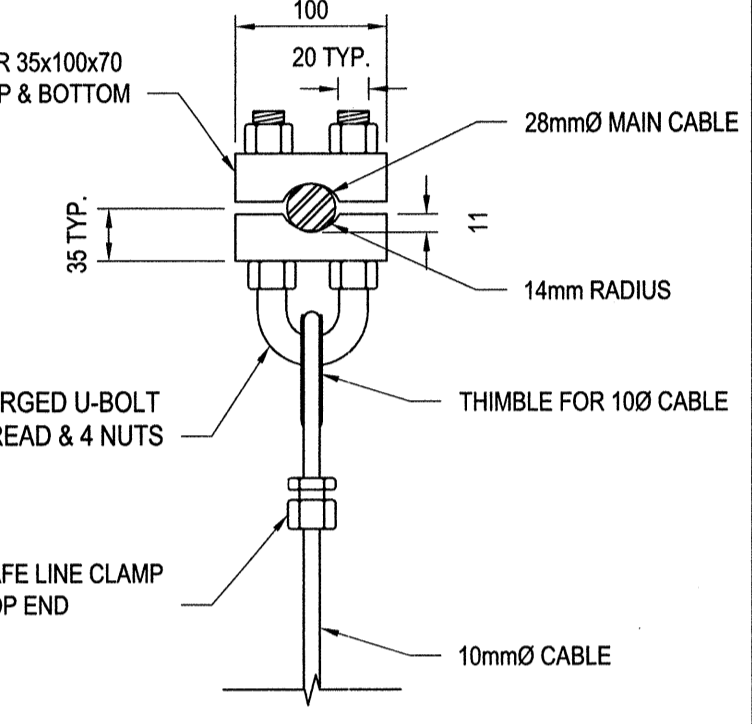
6 NORTH DETAIL
S-7 1:20



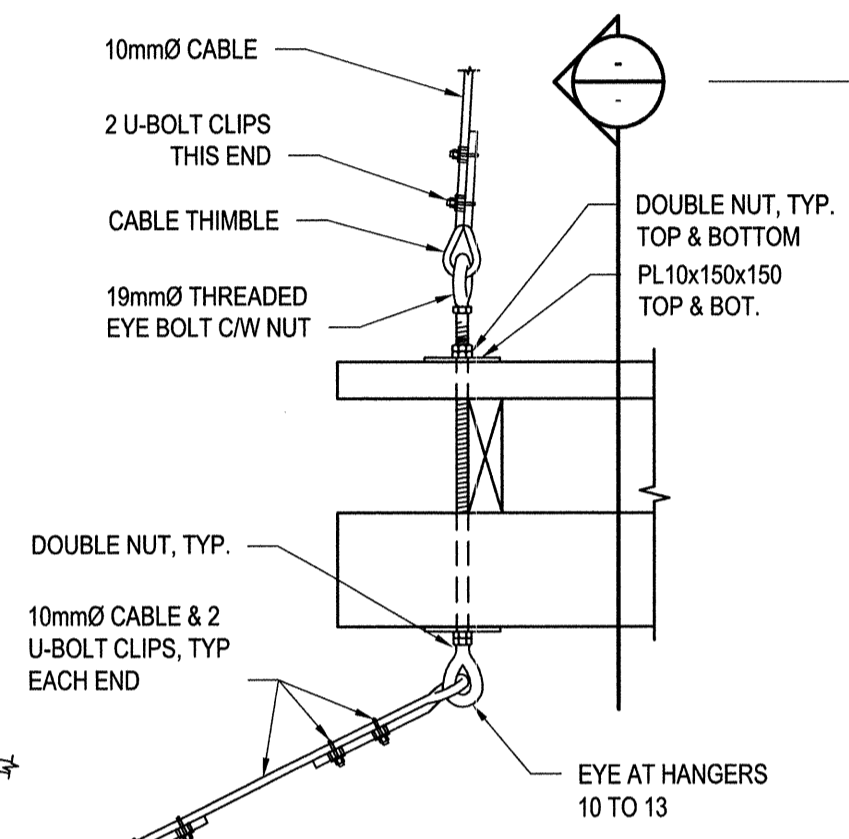
7 TYP. DETAIL AT GUARDRAIL POST
1:20



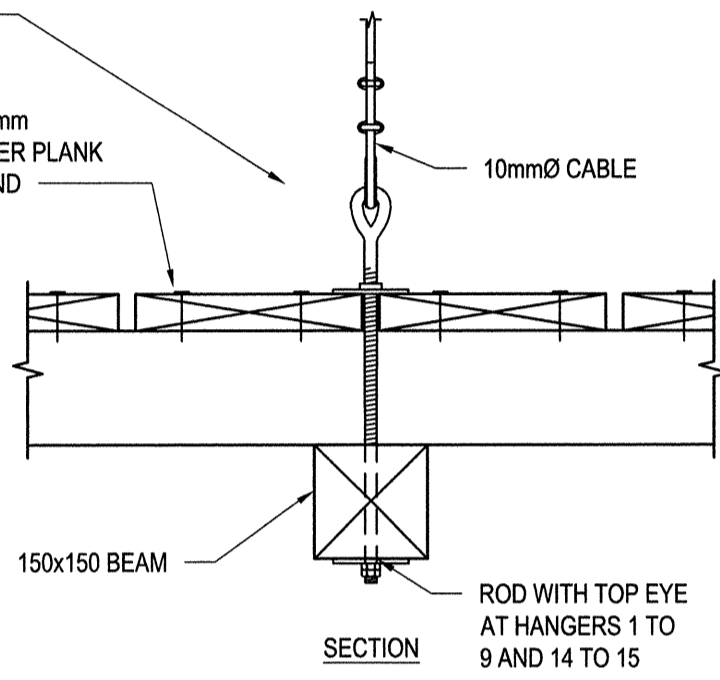
8 TYPICAL MAIN SPAN SECTION AT VERT CABLES
S-6 1:20



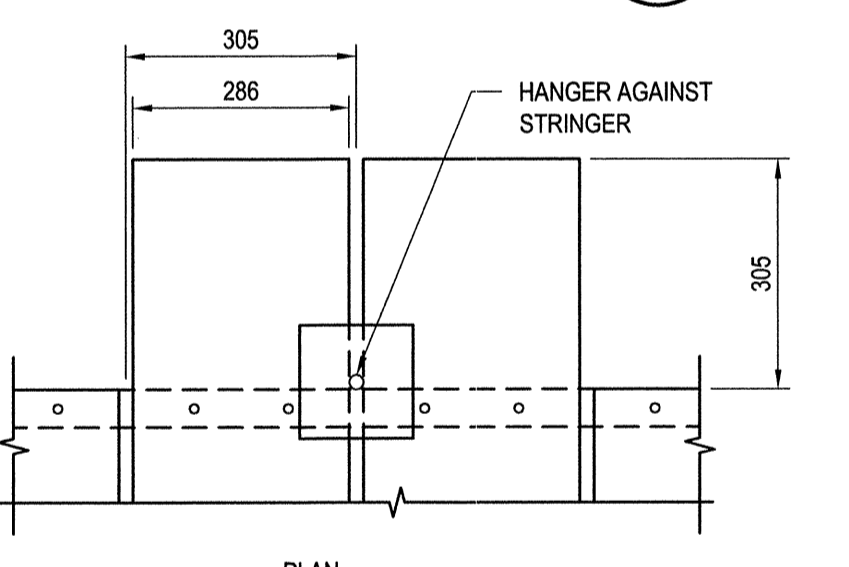
13 MAIN CABLE CLAMP DETAIL
1:5



9 HANGER-TO-BEAM DETAIL
1:10

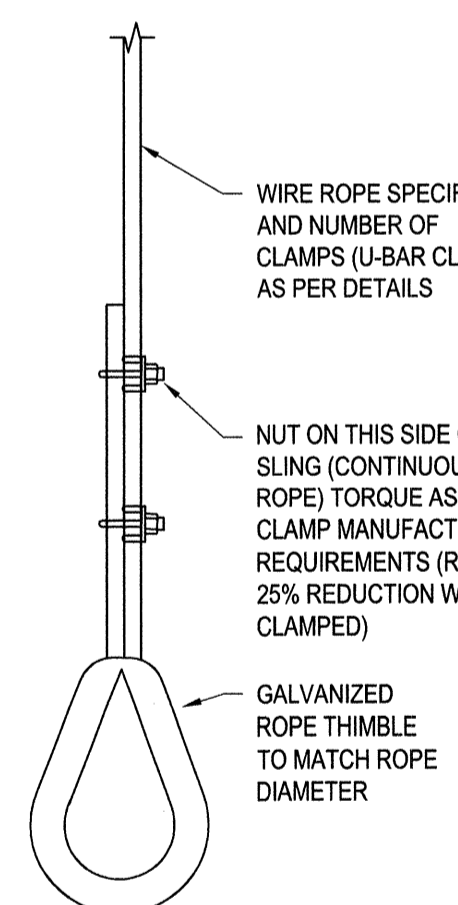


10 TYP. STRINGER SPLICE OVERLAP
1:10

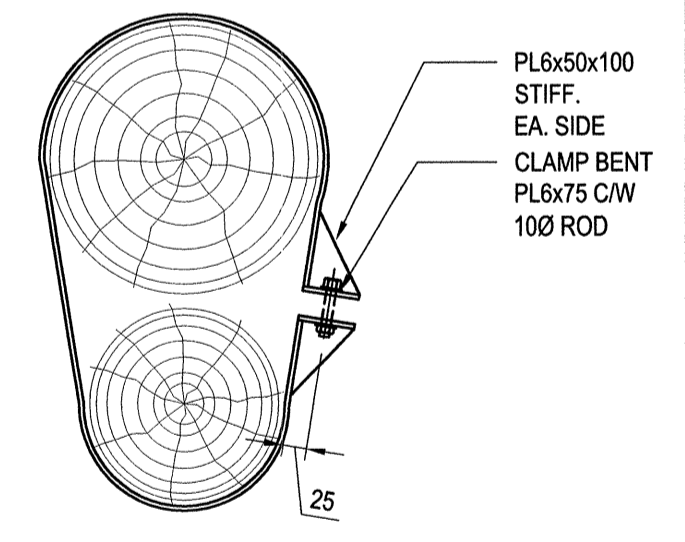


16 PLANK DETAIL
1:10

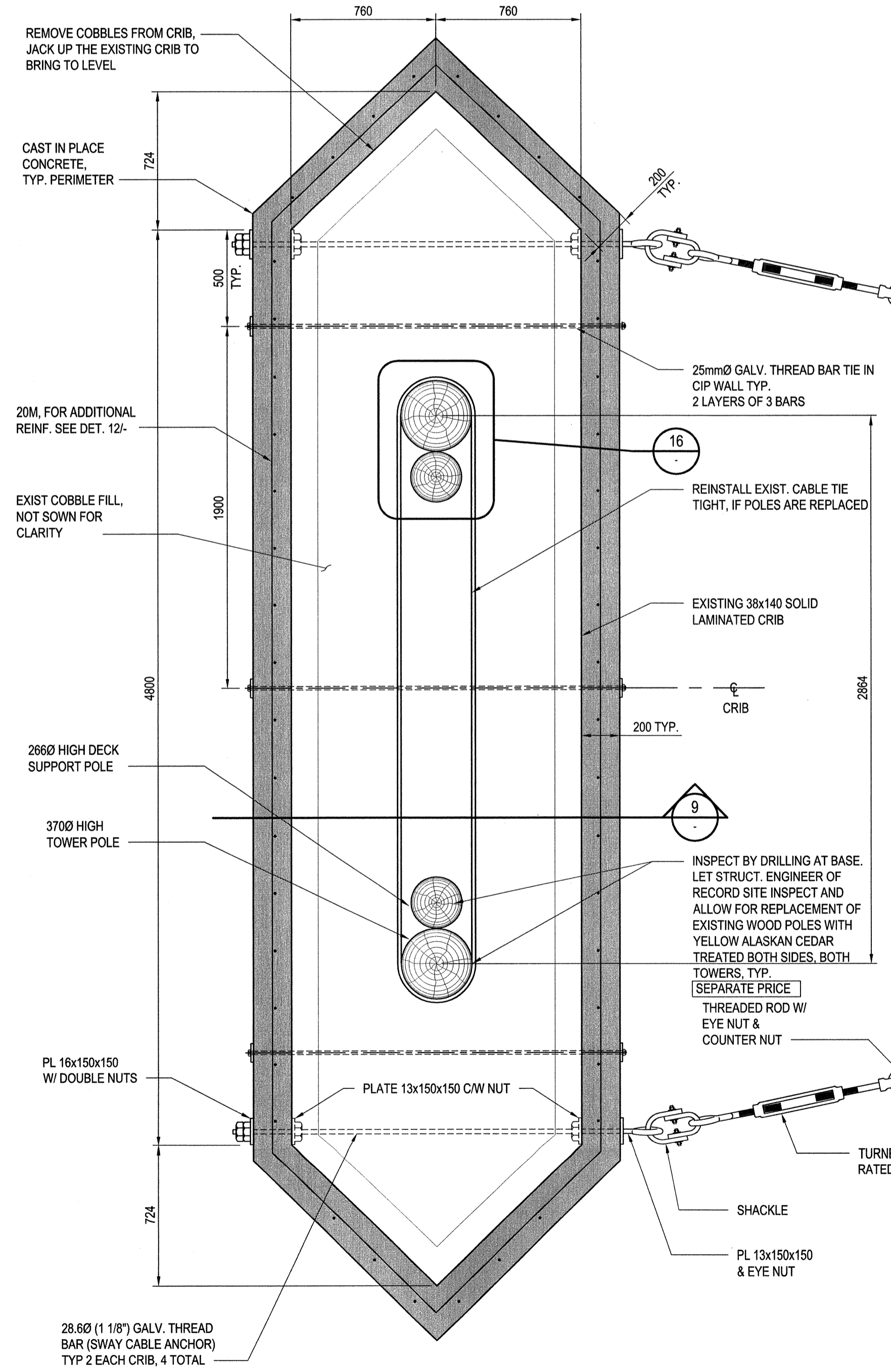
14 DETAIL
1:5



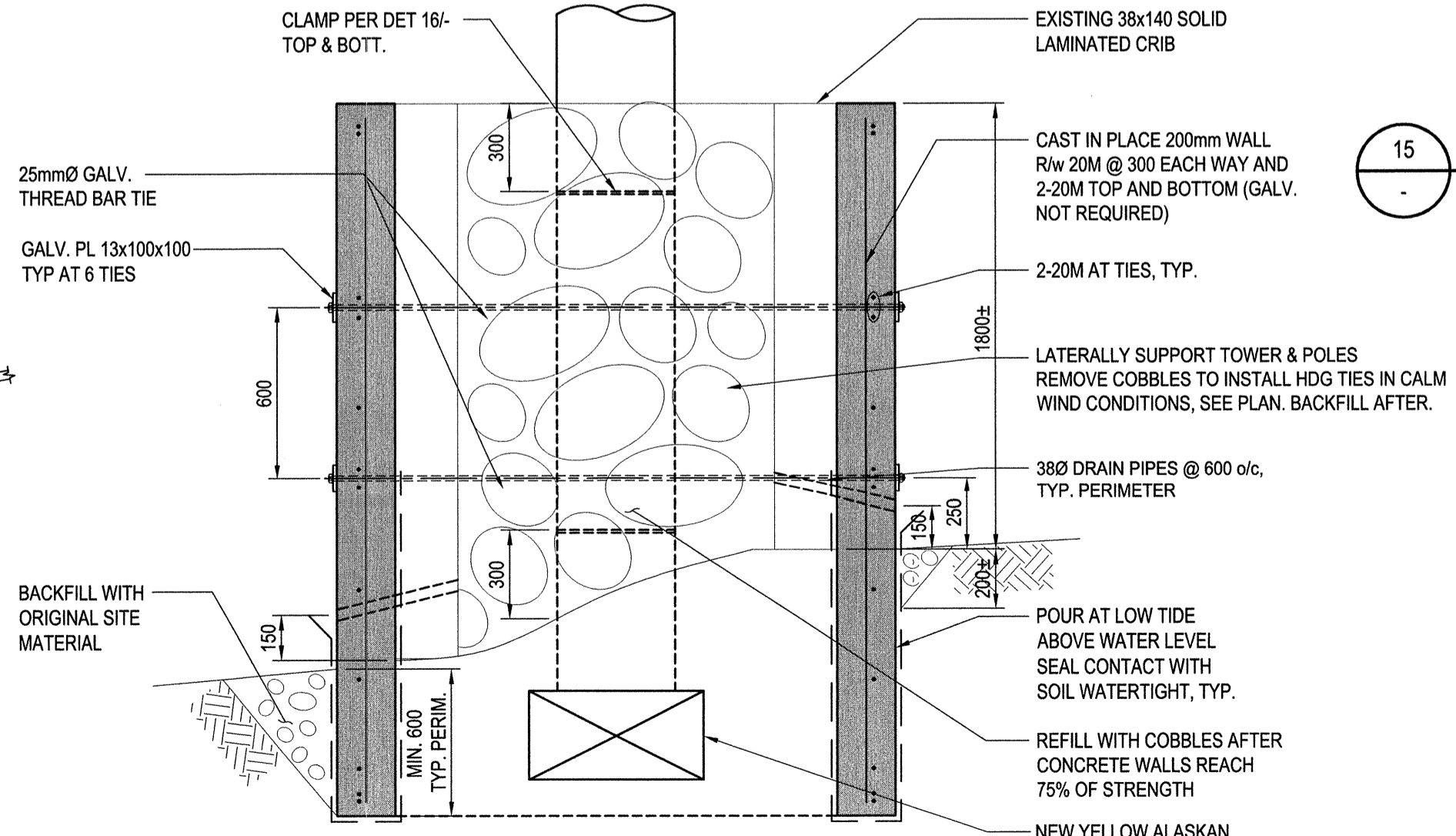
15 TYP. CABLE CONN.
1:5



16 TYP. CLAMP (4 AT EA. CRIB)
1:10



11 SOUTH PIER PLAN AT CONCRETE CRIB
S-7 1:20



12 SOUTH PIER SCOUR PROTECTION DETAIL
1:20

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