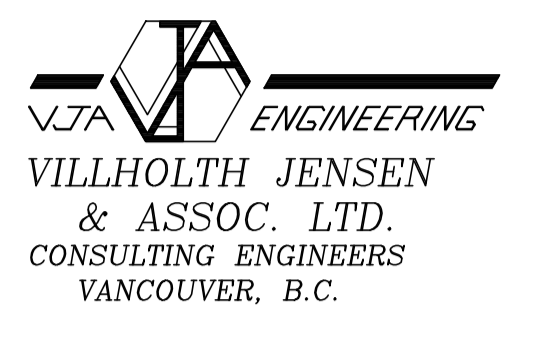




Travaux publics et Services gouvernementaux Canada



# PORT EDWARD

## - WHARF RECONSTRUCTION -

### ISSUED FOR TENDER

DRAWING LIST						
DRAWING NO.	DRAWING TITLE	REVISION				
		0	1	2	3	4
216124-001	EXISTING SITE PLAN	0				
216124-002	GENERAL ARRANGEMENT	0				
216124-003	NEW CONCRETE WHARF	0				
216124-010	CONCRETE WHARF - PHASE I	0				
216124-011	CONCRETE WHARF PHASE I - SECTIONS	0				
216124-012	CONCRETE WHARF PHASE I - PILE PLAN	0				
216124-013	CONCRETE WHARF PHASE I - PILE ANCHOR DETAILS	0				
216124-014	CONCRETE WHARF PHASE I - STEEL STRUCTURE PLAN	0				
216124-015	CONCRETE WHARF PHASE I - STEEL STRUCTURE SECTIONS & DETAILS (1of2)	0				
216124-016	CONCRETE WHARF PHASE I - STEEL STRUCTURE SECTIONS & DETAILS (2of2)	0				
216124-017	CONCRETE WHARF PHASE I - RAILING AND MISCELLANEOUS DETAILS	0				
216124-018	CONCRETE WHARF PHASE I - TIMBER DECK AND SLOPE PROTECTION	0				
216124-020	CONCRETE WHARF PHASE I - CONCRETE DECK PLAN, SECTIONS AND DETAILS	0				
216124-021	CONCRETE WHARF PHASE I - CONCRETE ABUTMENT PLAN, SECTIONS AND DETAILS	0				
216124-022	CONCRETE WHARF PHASE I - REINFORCING PLAN, SECTIONS AND DETAILS	0				



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**Fisheries & Oceans Canada  
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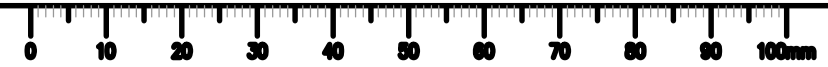
Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

Approved by/Approuvé par  
A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
PDM  
PWGSC Project Manager/Administrateur de Projets TPSGC

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC  
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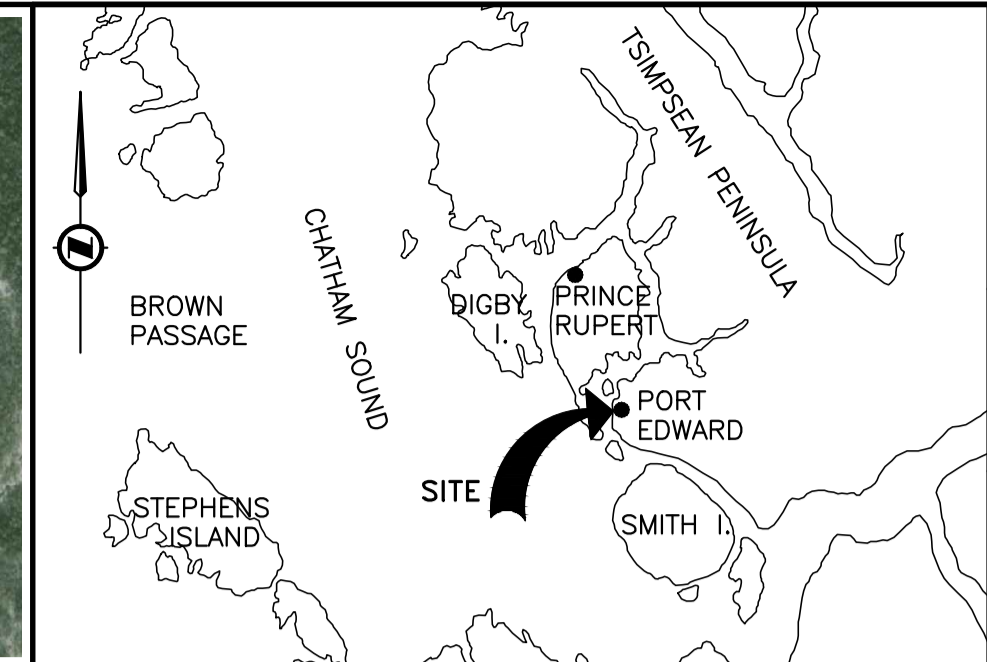
Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
COVER PAGE**

Project No./No. du projet <b>216124</b>	Sheet/Fauille <b>000</b> OF	Revision no./La Révision no. <b>0</b>
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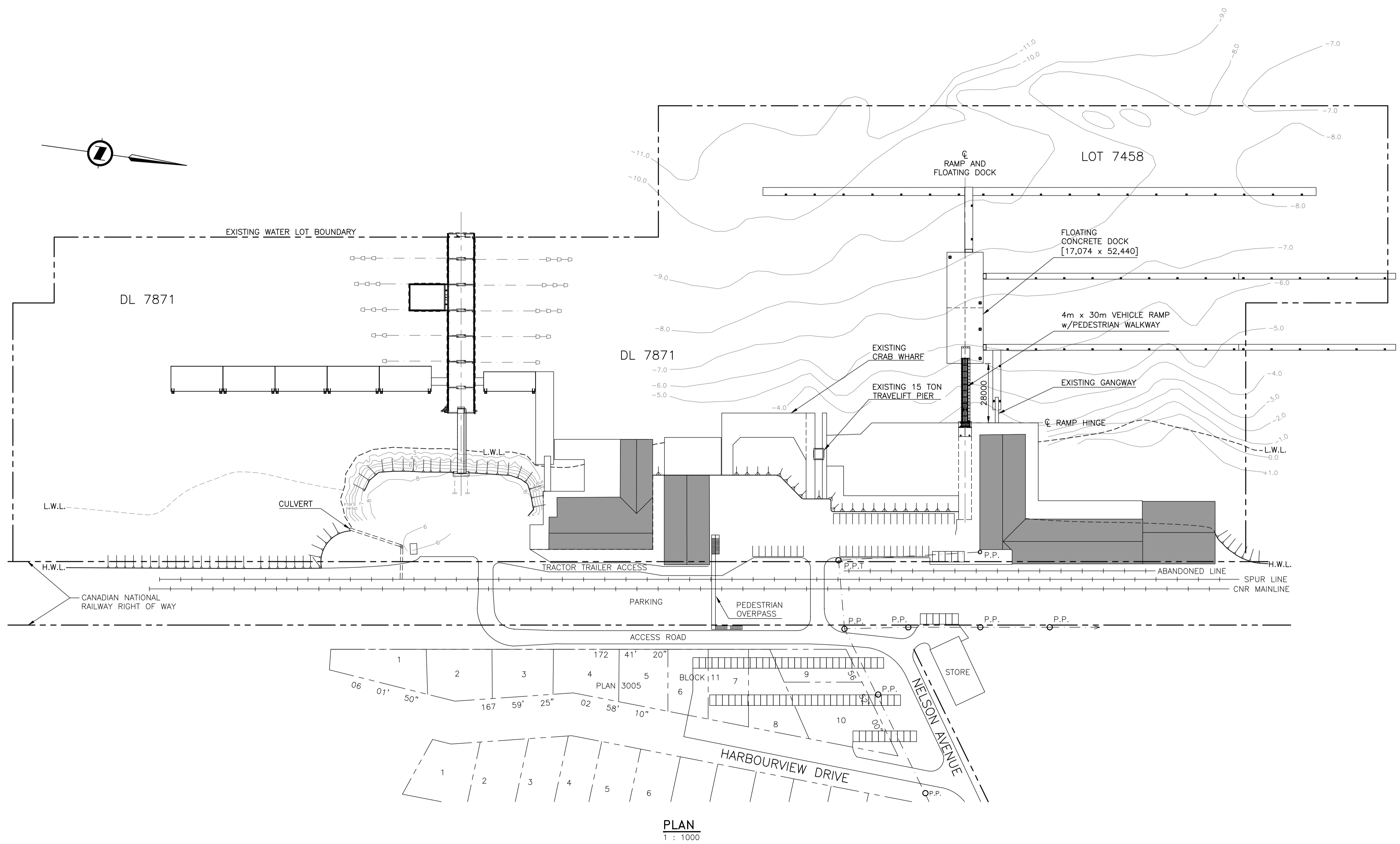




KEY PLAN



LOCATION PLAN



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	16/10/31

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**Fisheries & Oceans Canada  
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**PORT EDWARD  
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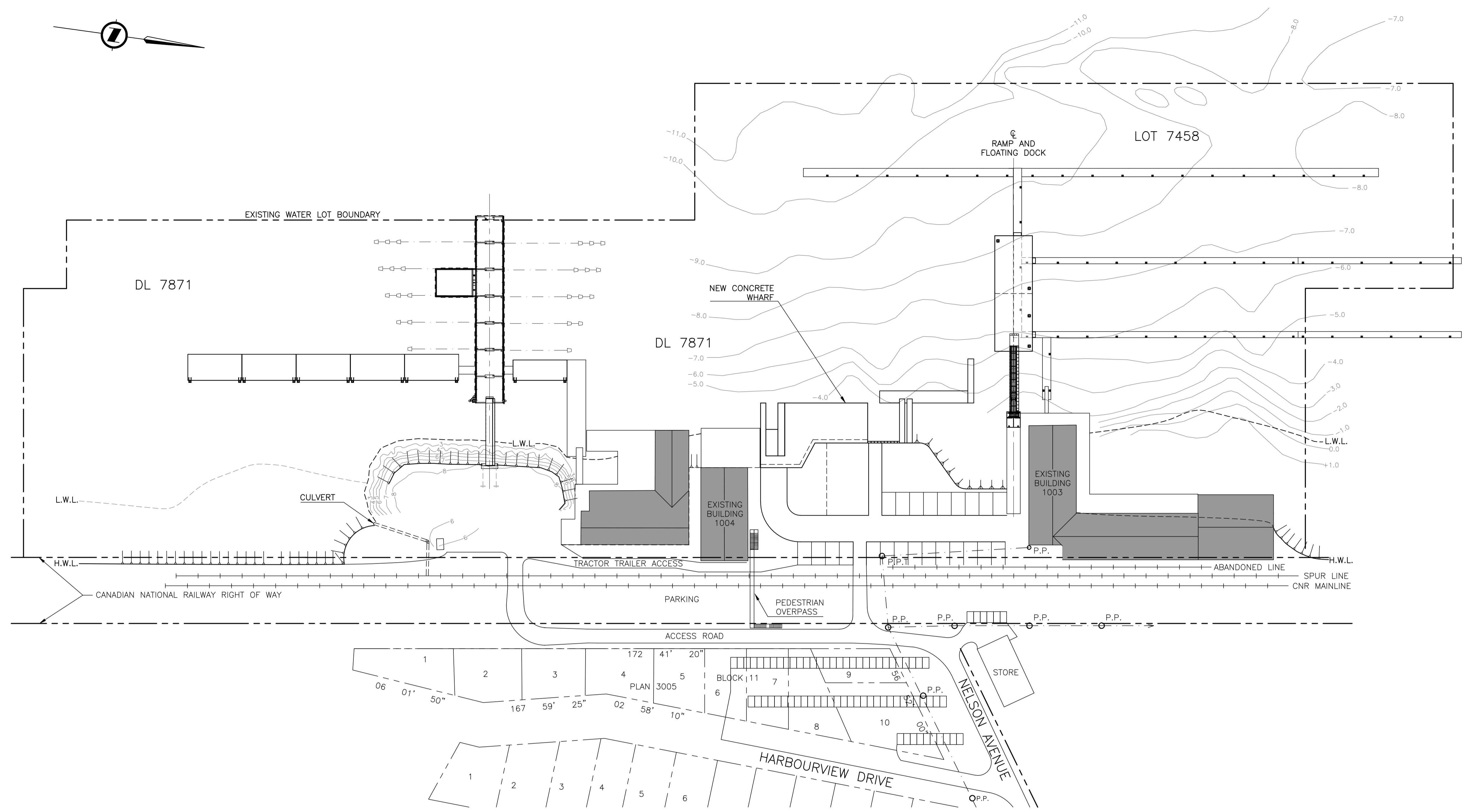
Approved by/Approuvé par  
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Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
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PWGSC Project Manager/Administrateur de Projets TPSCG

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Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
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**EXISTING SITE PLAN**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	001 OF	0

NOTES:  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.

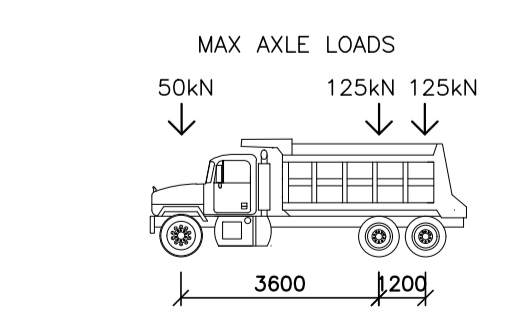


PLAN  
1 : 1000

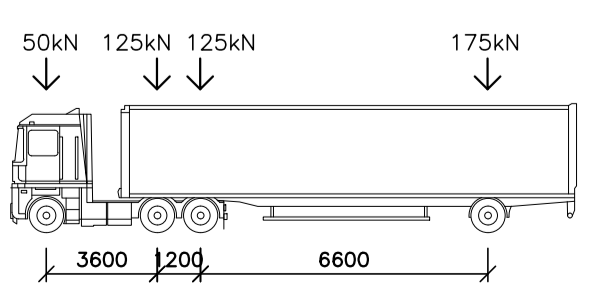
DESIGN CRITERIA

1. LIVE LOAD ON WHARF:  
 a) UNIFORMLY DISTRIBUTED LIVE LOAD = 20kPa  
 a) UNIFORMLY DISTRIBUTED LIVE LOAD ON TEMPORARY TIMBER DECK = 5kPa  
 c) HIGHWAY LIVE LOADING:

TRUCK CLASS CL3-625 CONFORMING TO CAN/CSA-S6-14  
 GVW = 30,581kg (67,360 lbs)

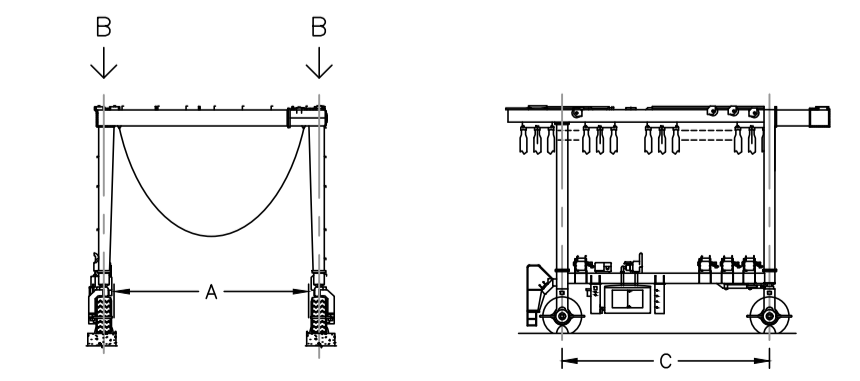


TRUCK CLASS CL2-625 CONFORMING TO CAN/CSA-S6-14  
 GVW = 48,420kg (10,800lbs)



2. LIVE LOAD ON TRAVELIFT PIER:  
 a) UNIFORMLY DISTRIBUTED LIVE LOAD ON PIER DECK = 20kPa  
 b) LIVE LOADING FOR MARINE TRAVELIFT IN TRAVELIFT DRIVING LANE

MODEL	INSIDE CLEAR WIDTH A	WHEEL LOADS PER CORNER B	WHEEL BASE C
15 BFMII	5.78m	100 kN	6.86m
100 BMFII	7.92m	400 kN	9.14m



3. ENVIRONMENTAL

- a) TIDES:  
 HIGHER HIGH WATER LEVEL (H.H.W.L.) = +7.4 m  
 MEAN WATER LEVEL (M.W.L.) = +3.8 m  
 LOWER LOW WATER LEVEL (L.L.W.L.) = +0.1 m  
 TIDE & CHART DATUM
- b) WIND:  
 DESIGN WIND SPEED (1 IN 50 YEARS) = 28.9 m/s  
 DESIGN WIND SPEED (1 IN 10 YEARS) = 25.5 m/s
- c) CURRENT VELOCITY = 1m/s
- d) SNOW LOAD:  
 SPECIFIED GROUND SNOW LOAD S<sub>s</sub> = 1.9kPa  
 SPECIFIED ASSOCIATED RAIN LOAD S<sub>r</sub> = 0.4kPa
- e) SEISMIC:  
 PGA (BCBC) = 0.18  
 S<sub>a</sub>(0.2)=0.38, S<sub>a</sub>(0.5)=0.25, S<sub>a</sub>(1.0)=0.15, S<sub>a</sub>(2.0)=0.086

GENERAL NOTES

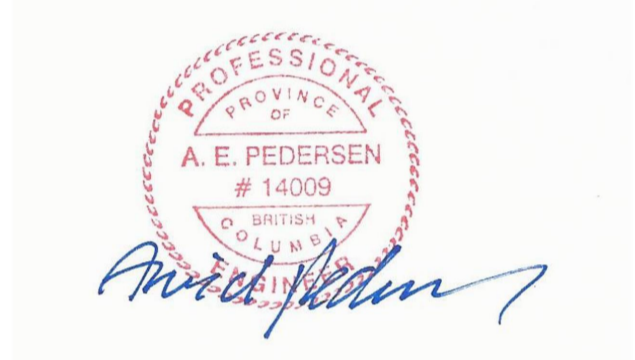
- GENERAL
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL ELEVATIONS ARE IN METRES AND ARE TO TIDE & CHART DATUM.
  - PLAN BASED ON SMALL CRAFT HARBOUR'S FACILITY PLAN FOR PORT EDWARD.
  - BATHYMETRY BASED ON PUBLIC WORKS CANADA DWG. 102901 DATED AUG. 1983.

REINFORCED CONCRETE

- CONCRETE CONSTRUCTION AND MATERIALS TO CONFORM TO CAN CSA STD A23.1, A23.2 AND A23.4. ALL CONCRETE TO BE NORMAL DENSITY WITH CLASS C-1 EXPOSURE. MINIMUM COMPRESSIVE CONCRETE STRENGTH AFTER 28 DAY TO BE 35 MPa UNLESS NOTED OTHERWISE.
- ALL REINFORCING STEEL TO BE DEFORMED BARS GRADE 400 CONFORMING TO CAN CSA STD. G30.18.
- MINIMUM COVER TO ALL REINFORCEMENT TO BE 50mm UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT HOOKS, LAPS AND DEVELOPMENT LENGTHS TO BE IN ACCORDANCE WITH CAN CSA STD A23.3.
- ALL EXPOSED CONCRETE EDGES TO BE CHAMFERED 20mm.

STRUCTURAL & MISCELLANEOUS STEEL

- ALL ROLLED SECTIONS & MISCELLANEOUS PLATE TO BE GRADE 300W CONFORMING TO CSA G40.21 UNLESS NOTED OTHERWISE.
- HOLLOW STRUCTURAL SECTIONS TO BE GRADE 350W CLASS C CONFORMING TO CSA STD. G40.20/G40.21 UNLESS OTHERWISE NOTED.
- ALL BOLTS SHALL BE ASTM A325 UNLESS NOTED OTHERWISE.
- CORROSION PROTECTION:  
 ALL STEEL TO BE PROTECTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS
- ALL WELDING TO CONFORM TO CSA STD. W47, W48 & W59. MINIMUM WELD SIZE, 6mm.
- PIPE PILE SECTIONS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A252, GRADE 3.
- PIPE PILES TO BE INSTALLED TO A MINIMUM PENETRATION AS SHOWN ON THE DRAWINGS.
- ANCHORS SHALL BE DWIDAG SINGLE THREADBAR ANCHORS CONFORMING TO CSA STANDARD G30.18. STEEL GRADE 517/690MPa.



Revision/Revision	Description/Description	Date/Date
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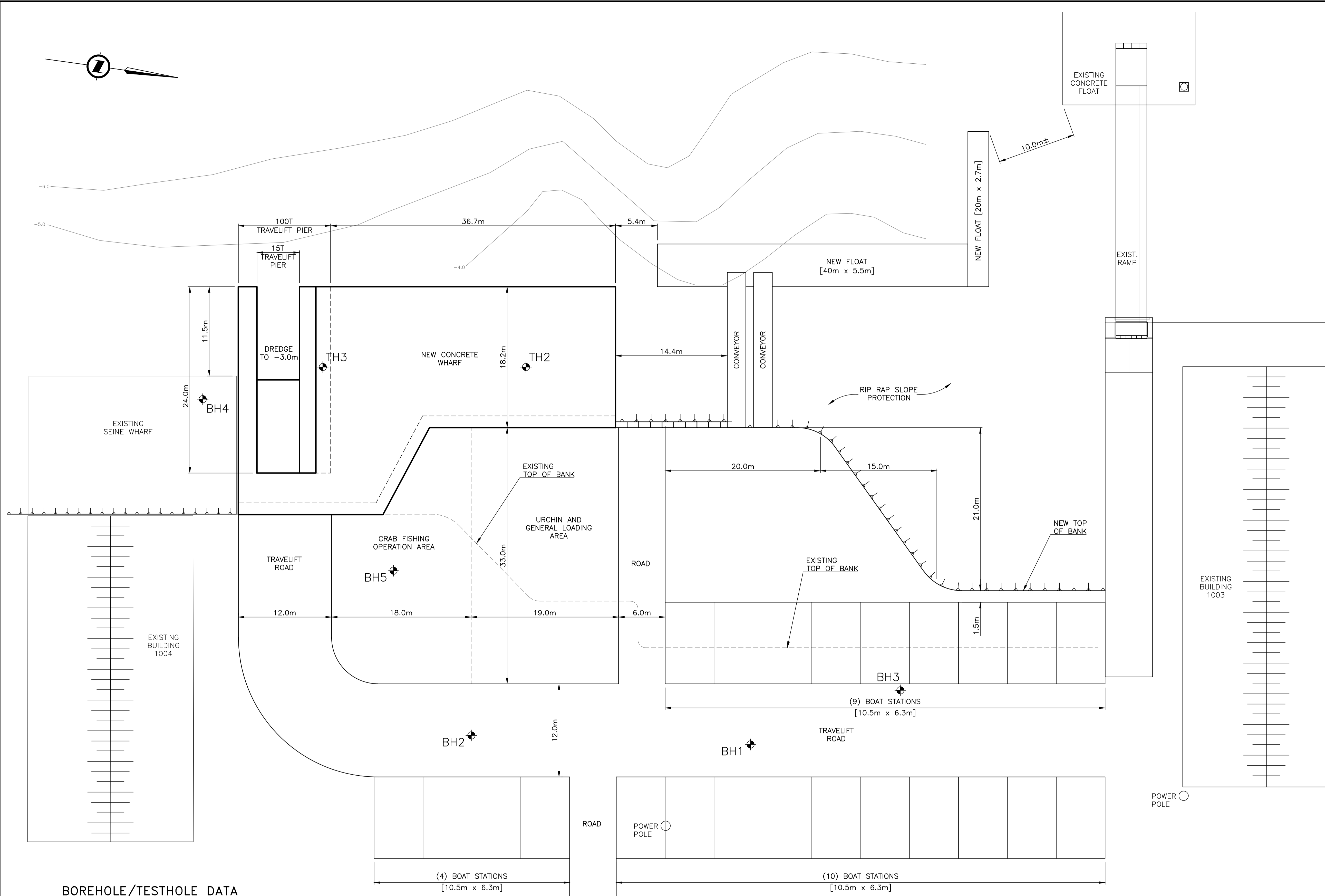
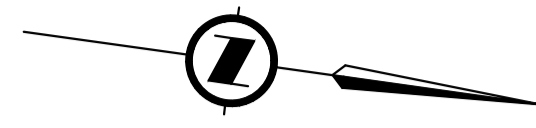
Project title/Titre du projet  
**PORT EDWARD**  
**WHARF**  
**RECONSTRUCTION**

Approved by/Approuvé par  
 A.P.  
 Designed by/Concept par  
 A.P.  
 Drawn by/Dessiné par  
 PDM  
 PWGSC Project Manager/Administrateur de Projets TPWGC

PWGSC, Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'Ingénierie, TPWGC  
 Client/client  
 VJA

Drawing title/Titre du dessin  
**GENERAL ARRANGEMENT**

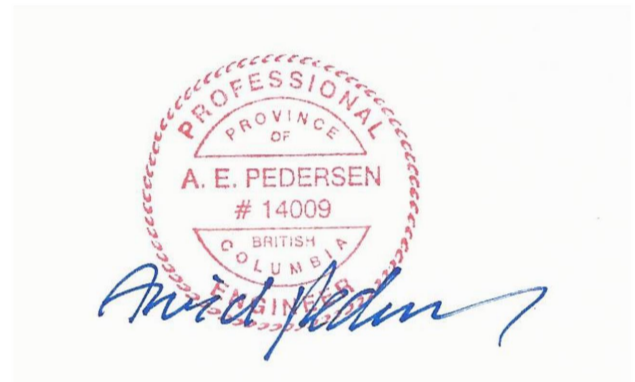
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	002 OF	0



**BOREHOLE/TESTHOLE DATA**

BOREHOLE	BEDROCK ELEV (m)
BH1	+4.8m
BH2	+6.1m
BH3	+5.0m
BH4	-5.4m
BH5	-1.6m
TH2	-5.13m
TH3	-6.35m

**PLAN**  
1 : 250



Revision/	Description/Description	Date/Date
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Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

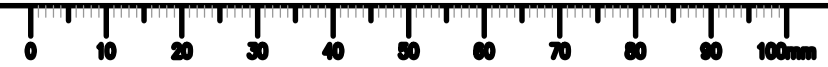
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PWGSC Project Manager/Administrateur de Projets TPSCG

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Drawing title/Titre du dessin  
**NEW CONCRETE WHARF**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	003 OF	0

**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.





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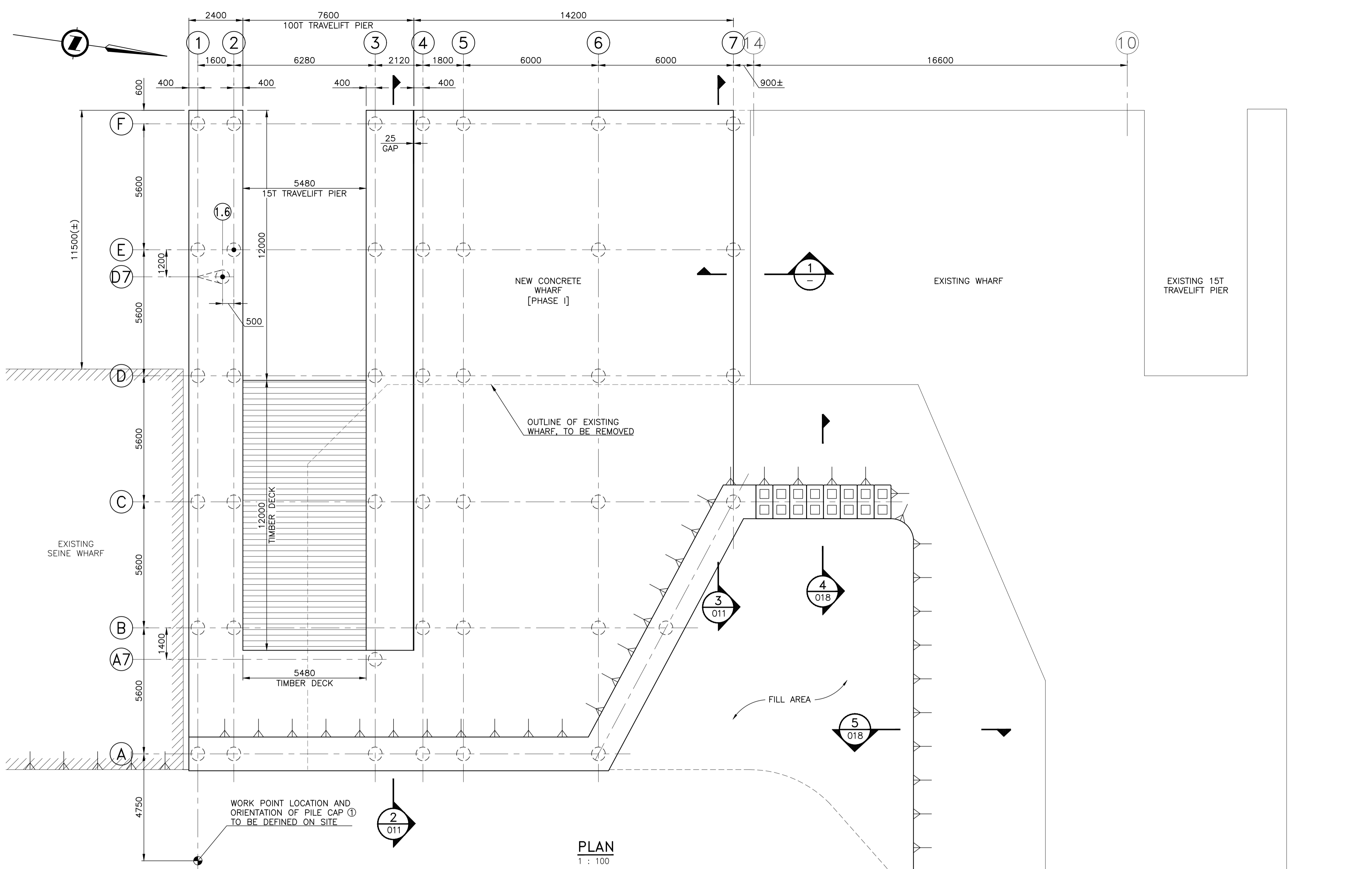
Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

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A.P.  
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PWGSC Project Manager/Administrateur de Projets TPSCG

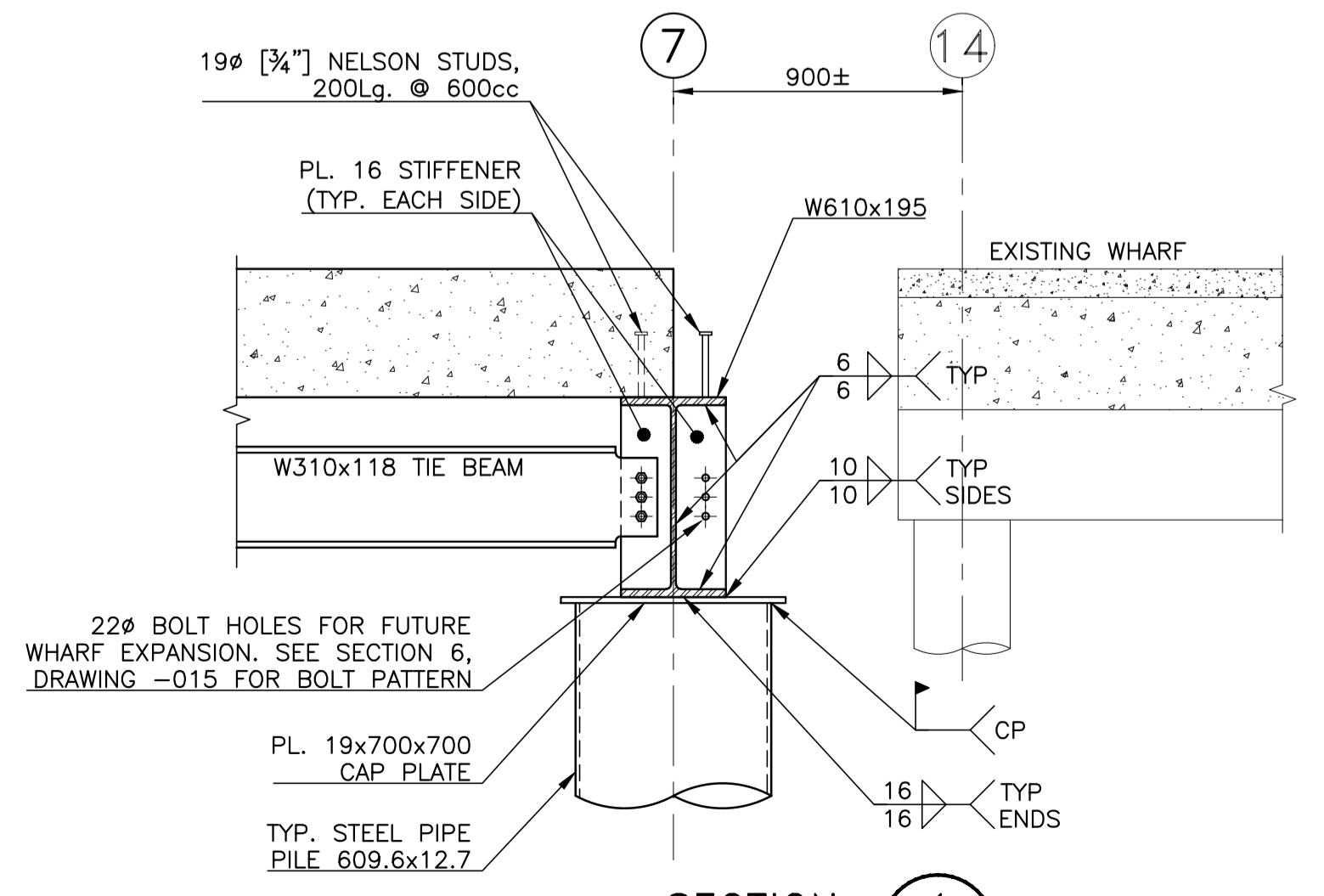
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Ressources Architectural et de Directeur d'Ingénierie, TPSCG

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VJA  
Drawing title/Titre du dessin  
**CONCRETE WHARF  
PHASE I**

Project No./No. du projet <b>216124</b>	Sheet/Fauille <b>010</b> OF	Revision no./ La Révision no. <b>0</b>
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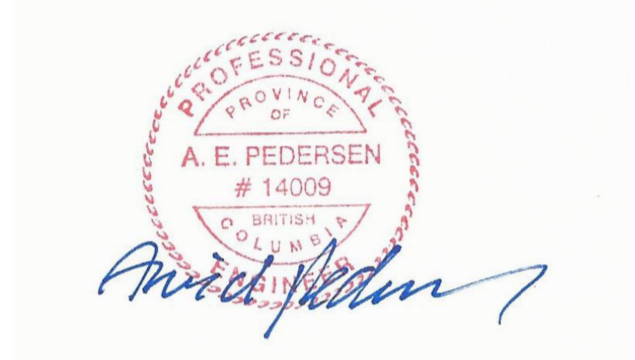


**PLAN**  
1 : 100



**SECTION 1**  
1 : 20

**NOTES:**  
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Pacific Division**  
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**PORT EDWARD  
WHARF  
RECONSTRUCTION**

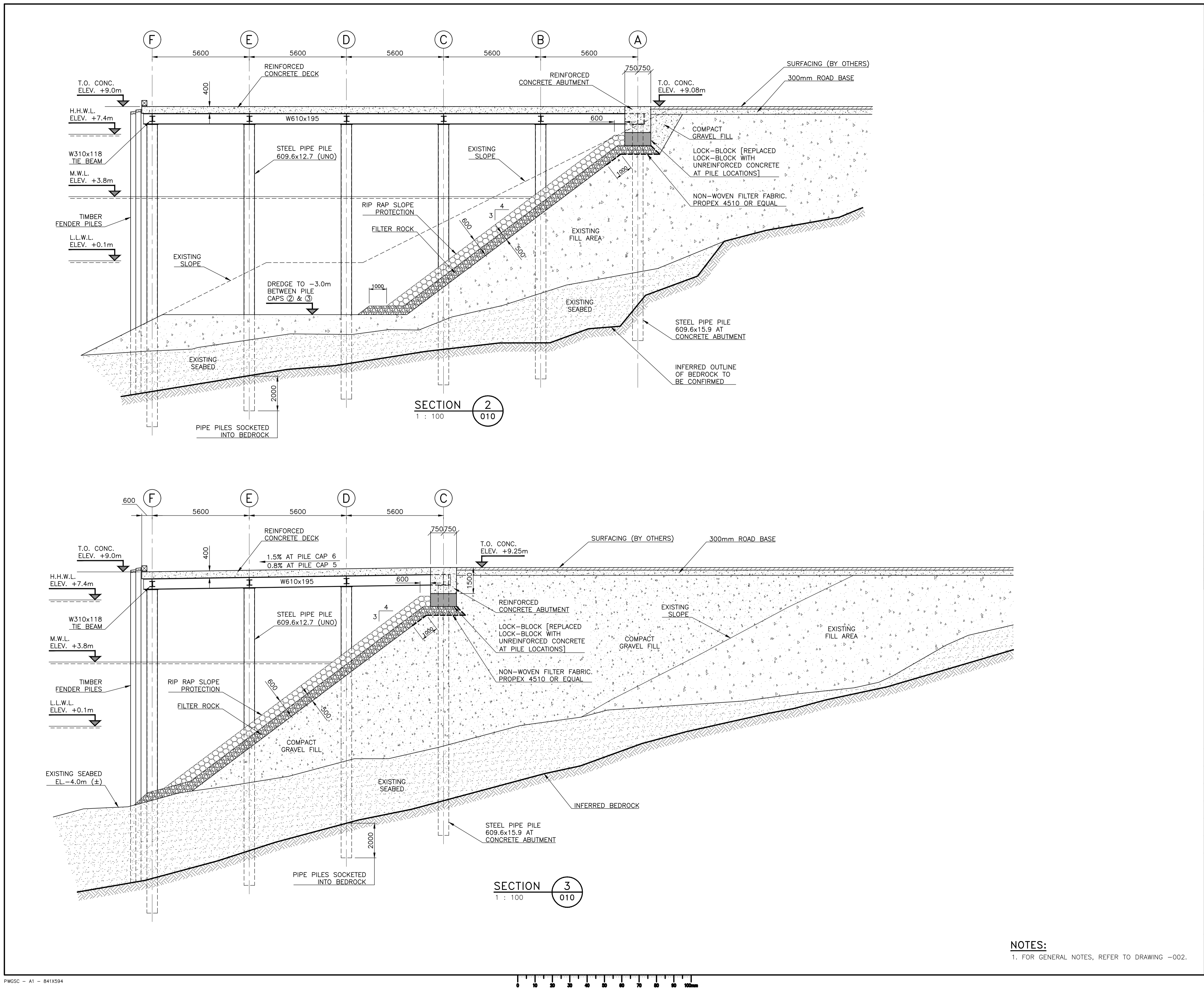
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Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
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PWGSC Project Manager/Administrateur de Projets TPSCG

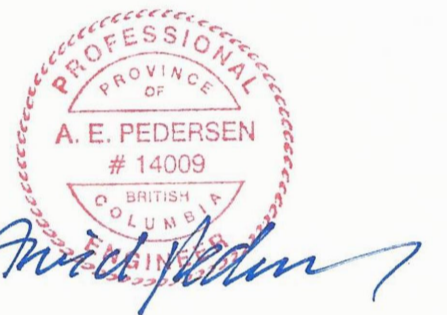
PWGSC, Architectural and Engineering Resources Manager/  
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Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
SECTIONS**

Project No./No. du projet <b>216124</b>	Sheet/Fauille <b>011</b> OF	Revision no./ La Révision no. <b>0</b>
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NOTES:  
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RECONSTRUCTION**

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PWGSC Project Manager/Administrateur de Projets TPSCG

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**CONCRETE WHARF PHASE I  
PILE PLAN**

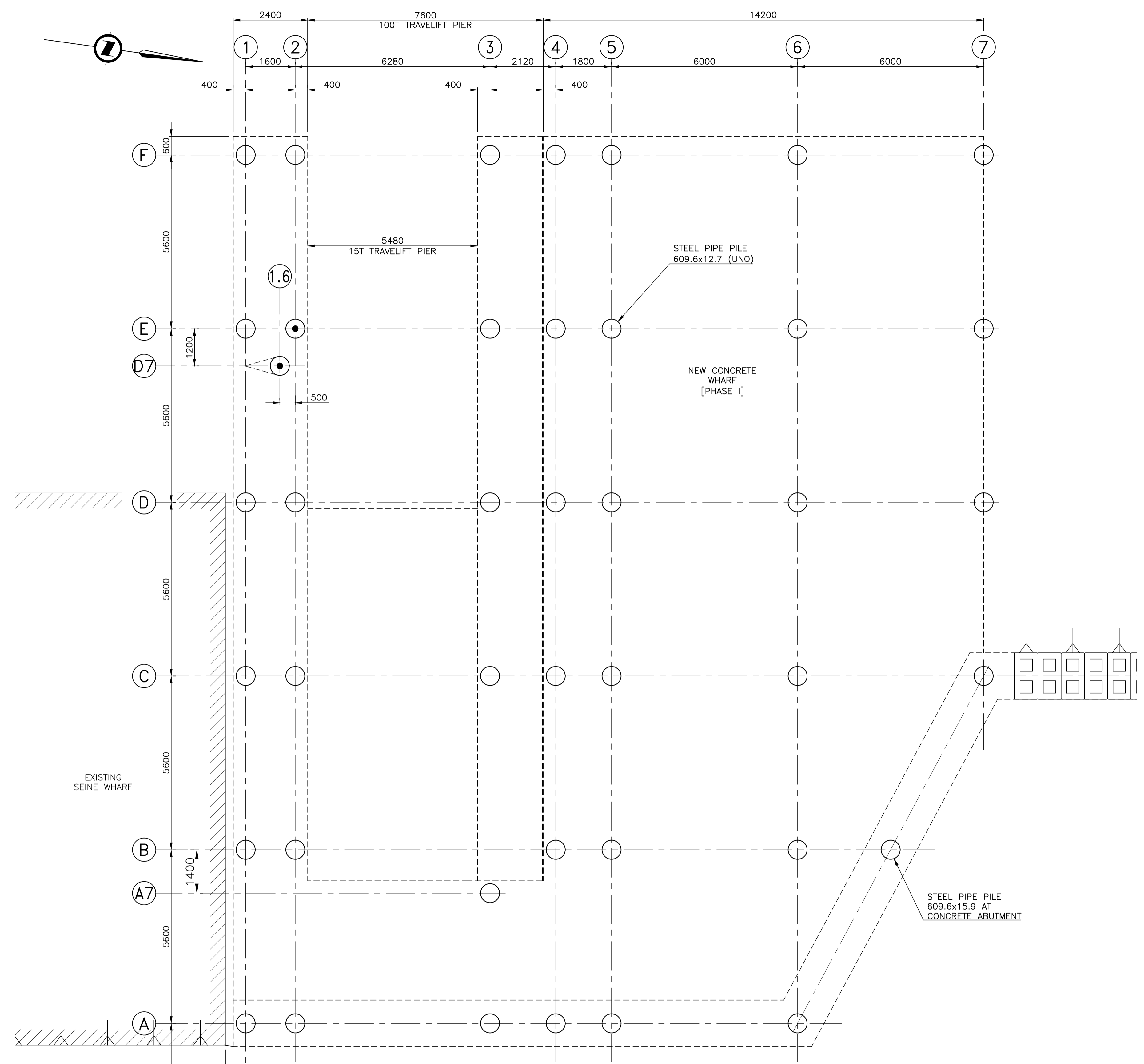
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**PILE TABLE**

PILE	PIPE SIZE (mm)	CUT OFF ELEVATION	SOCKET DEPTH IN BEDROCK	ESTIMATED TIP ELEV.	ANCHOR
A/1	609.6x15.9	+7.959m	2.0m	-6.0m	NO
A/2	609.6x15.9	+7.959m	2.0m	-6.0m	NO
A/3	609.6x15.9	+7.959m	2.0m	-6.0m	NO
A/4	609.6x15.9	+7.959m	2.0m	-6.0m	NO
A/5	609.6x15.9	+8.045m	2.0m	-6.0m	NO
A/6	609.6x15.9	+8.216m	2.0m	-6.0m	NO
B/1	609.6x12.7	+7.959m	2.0m	-8.0m	NO
B/2	609.6x12.7	+7.959m	2.0m	-8.0m	NO
A7/3	609.6x12.7	+7.959m	2.0m	-8.0m	NO
B/4	609.6x12.7	+7.959m	2.0m	-8.0m	NO
B/5	609.6x12.7	+8.028m	2.0m	-8.0m	NO
B/6	609.6x12.7	+8.166m	2.0m	-8.0m	NO
B/6+.5	609.6x15.9	+8.218m	2.0m	-8.0m	NO
C/1	609.6x12.7	+7.959m	2.0m	-9.0m	NO
C/2	609.6x12.7	+7.959m	2.0m	-9.0m	NO
C/3	609.6x12.7	+7.959m	2.0m	-9.0m	NO
C/4	609.6x12.7	+7.959m	2.0m	-9.0m	NO
C/5	609.6x12.7	+8.011m	2.0m	-9.0m	NO
C/6	609.6x12.7	+8.115m	2.0m	-9.0m	NO
C/7	609.6x15.9	+8.220m	2.0m	-9.0m	NO
D/1	609.6x12.7	+7.959m	2.0m	-10.0m	NO
D/2	609.6x12.7	+7.959m	2.0m	-10.0m	NO
D/3	609.6x12.7	+7.959m	2.0m	-10.0m	NO
D/4	609.6x12.7	+7.959m	2.0m	-10.0m	NO
D/5	609.6x12.7	+7.995m	2.0m	-10.0m	NO
D/6	609.6x12.7	+8.065m	2.0m	-10.0m	NO
D/7	609.6x12.7	+8.136m	2.0m	-10.0m	NO
D7/1.6	609.6x12.7 (1:5 BATTER)	+7.959m	NO	-11.0m	3-57ø
E/1	609.6x12.7	+7.959m	2.0m	-11.0m	NO
E/2	609.6x12.7	+7.959m	2.0m	-11.0m	3-57ø
E/3	609.6x12.7	+7.959m	2.0m	-11.0m	NO
E/4	609.6x12.7	+7.959m	2.0m	-11.0m	NO
E/5	609.6x12.7	+7.978m	2.0m	-11.0m	NO
E/6	609.6x12.7	+8.014m	2.0m	-11.0m	NO
E/7	609.6x12.7	+8.052m	2.0m	-11.0m	NO
F/1	609.6x12.7	+7.959m	2.0m	-12.0m	NO
F/2	609.6x12.7	+7.959m	2.0m	-12.0m	NO
F/3	609.6x12.7	+7.959m	2.0m	-12.0m	NO
F/4	609.6x12.7	+7.959m	2.0m	-12.0m	NO
F/5	609.6x12.7	+7.961m	2.0m	-12.0m	NO
F/6	609.6x12.7	+7.964m	2.0m	-12.0m	NO
F/7	609.6x12.7	+7.968m	2.0m	-12.0m	NO

**PILE LEGEND**

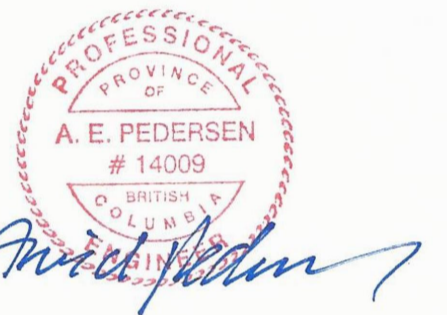
- 609.6 OD STEEL PIPE PILE
- STEEL PIPE ANCHOR PILE 609.6x12.7 w/(3) 57ø DYWIDAG ANCHORS
- STEEL PIPE ANCHOR PILE (1:5 BATTER) 609.6x12.7 w/(3) 57ø DYWIDAG ANCHORS



**PILE PLAN**  
1 : 75

WORK POINT LOCATION AND ORIENTATION OF PILE CAP ① TO BE DEFINED ON SITE

**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.



Revision/	Description/Description	Date/Date
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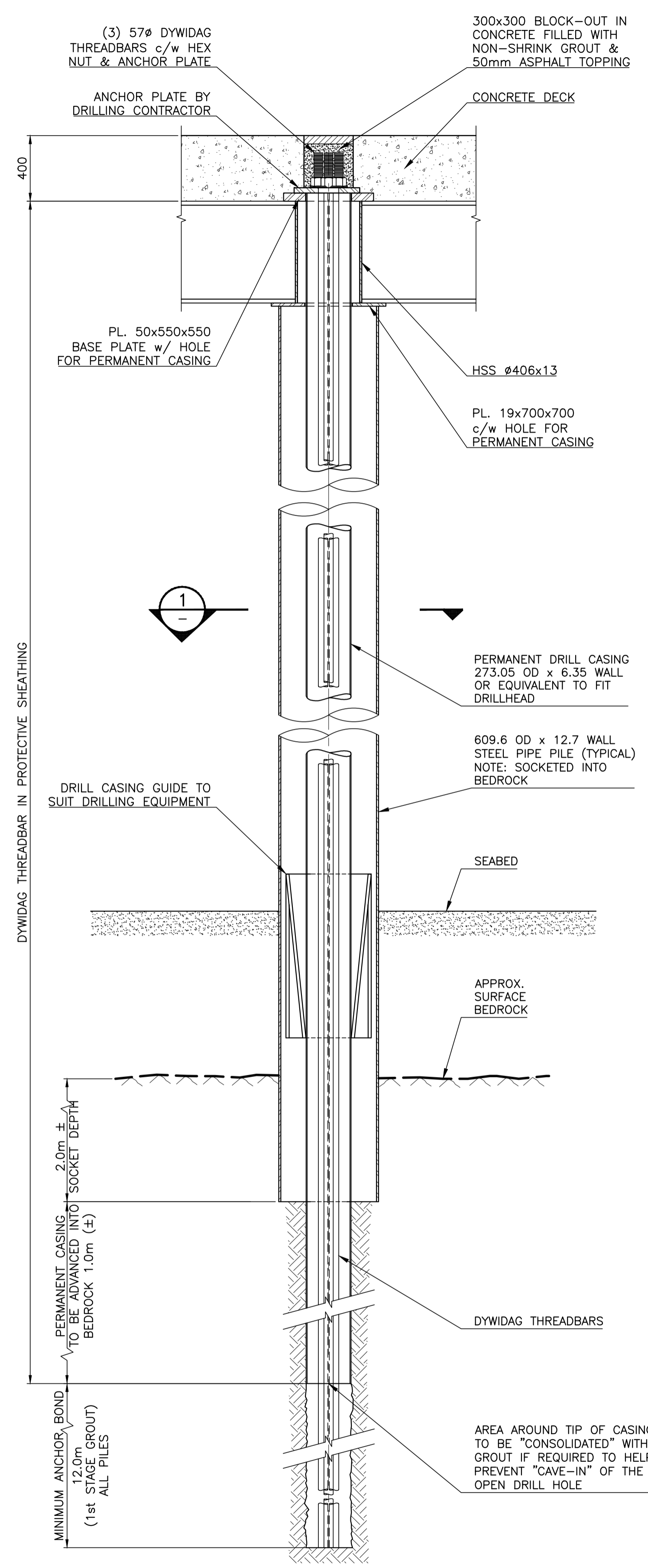
Client/client  
**Fisheries & Oceans Canada  
Small Craft Harbours Branch  
Pacific Division**  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

Approved by/Approuvé par  
A.P.  
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PWGSC Project Manager/Administrateur de Projets TPSCG  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
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VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
PILE ANCHOR DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
216124	013 OF	0



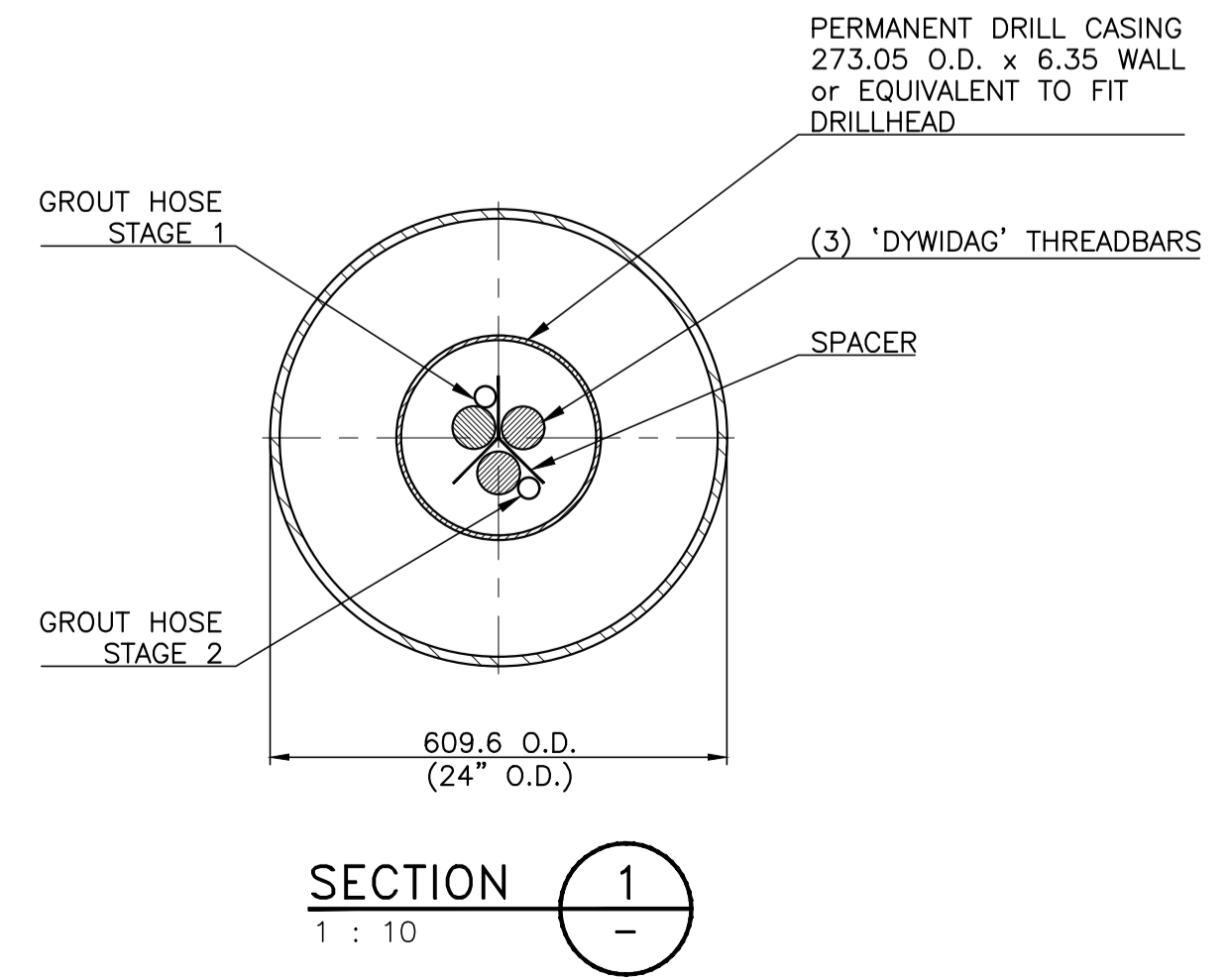
**ROCK ANCHOR ARRANGEMENT**  
1 : 20

**PILE & ANCHOR INSTALLATION E/2**

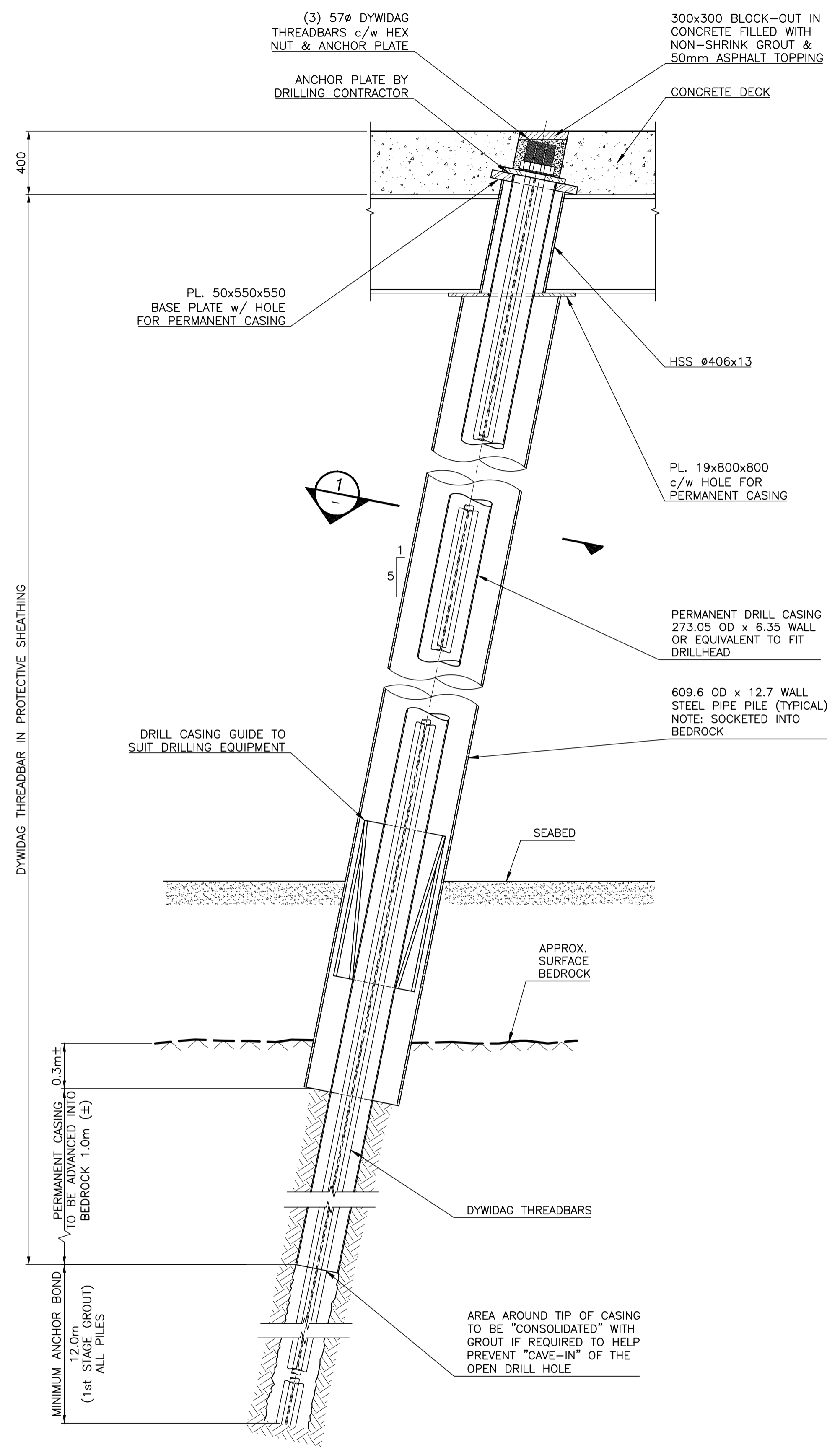
1. DRIVE PILES TO REFUSAL
2. SOCKET PILE INTO BEDROCK
3. PLACE DRILL CASING GUIDE
4. CONSTRUCT THE PILE CAPS AND DECK
5. DRILL AND ADVANCE PERMANENT CASING INTO BEDROCK.
6. SEAL AREA AROUND TIP OF PERMANENT CASING IF REQUIRED.
7. DRILL FOR ANCHORS TO DEPTH INDICATED
8. PLACE ANCHOR
9. GROUT FIRST STAGE
10. TEST ANCHORS AS PER SPEC. AND LOCK-OFF ANCHOR
11. GROUT SECOND STAGE AND PLUG ANCHOR HOLE IN CONCRETE DECK

**PILE & ANCHOR INSTALLATION D7/1.6**

1. DRIVE PILES TO REFUSAL
3. PLACE DRILL CASING GUIDE
4. CONSTRUCT THE PILE CAPS AND DECK
5. DRILL AND ADVANCE PERMANENT CASING INTO BEDROCK.
6. SEAL AREA AROUND TIP OF PERMANENT CASING IF REQUIRED.
7. DRILL FOR ANCHORS TO DEPTH INDICATED
8. PLACE ANCHOR
9. GROUT FIRST STAGE
10. TEST ANCHORS AS PER SPEC. AND LOCK-OFF ANCHOR
11. GROUT SECOND STAGE AND PLUG ANCHOR HOLE IN CONCRETE DECK



**SECTION 1**  
1 : 10



**ROCK ANCHOR ARRANGEMENT IN BATTER PILE**  
1 : 20

**NOTES:**

1. FOR GENERAL NOTES, REFER TO DRAWING -002.
2. ANCHOR TEST LOADS:  
TEST LOAD Tt = 2000 kN  
LOCK OFF LOAD Pt = 500 kN





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Pacific Division**  
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Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

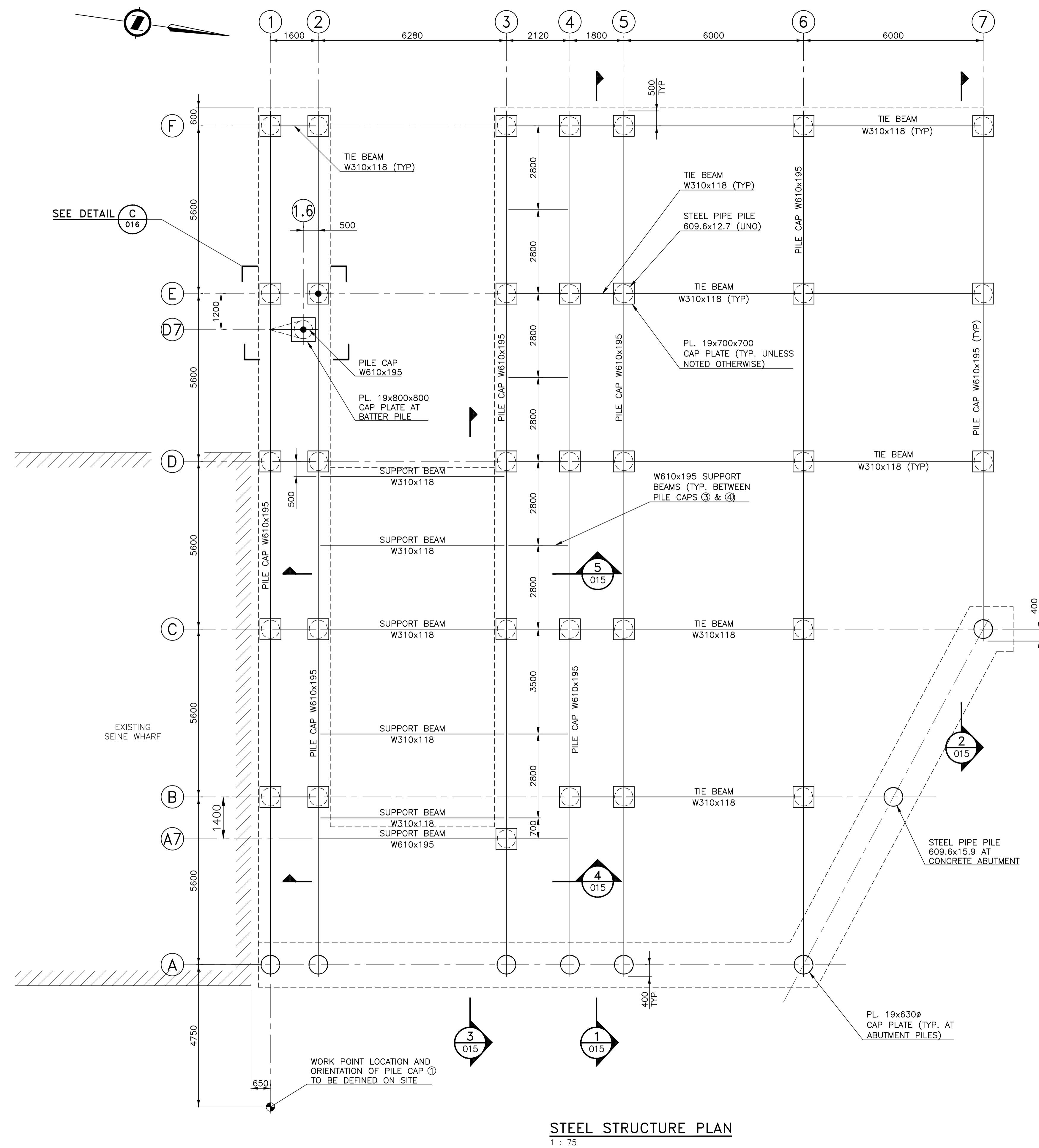
Approved by/Approuvé par  
A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
PDM  
PWGSC Project Manager/Administrateur de Projets TPSCG

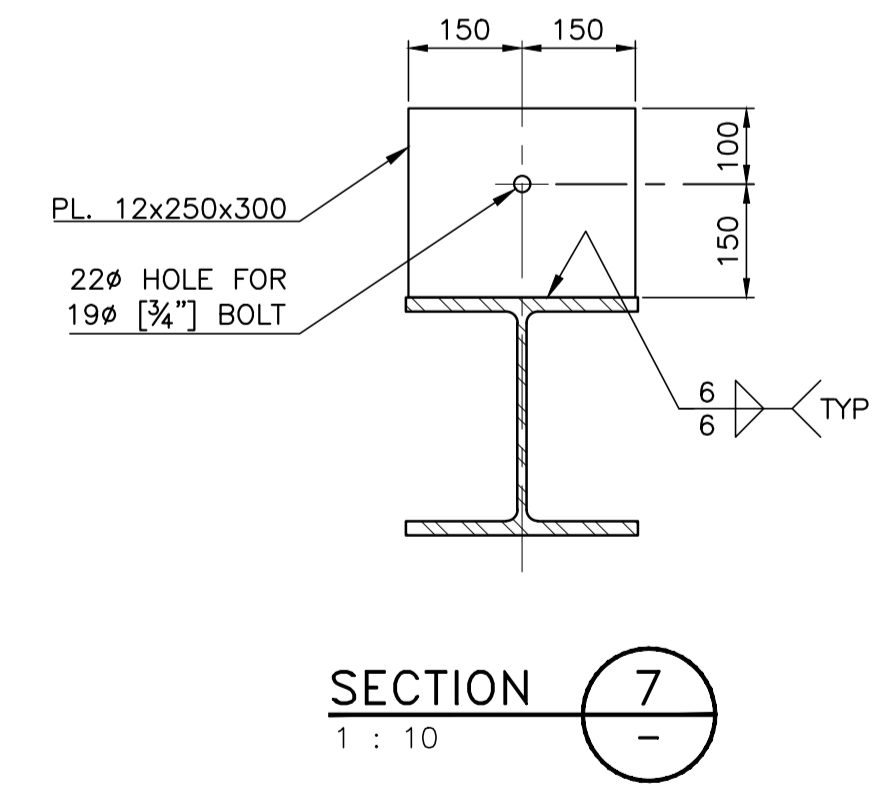
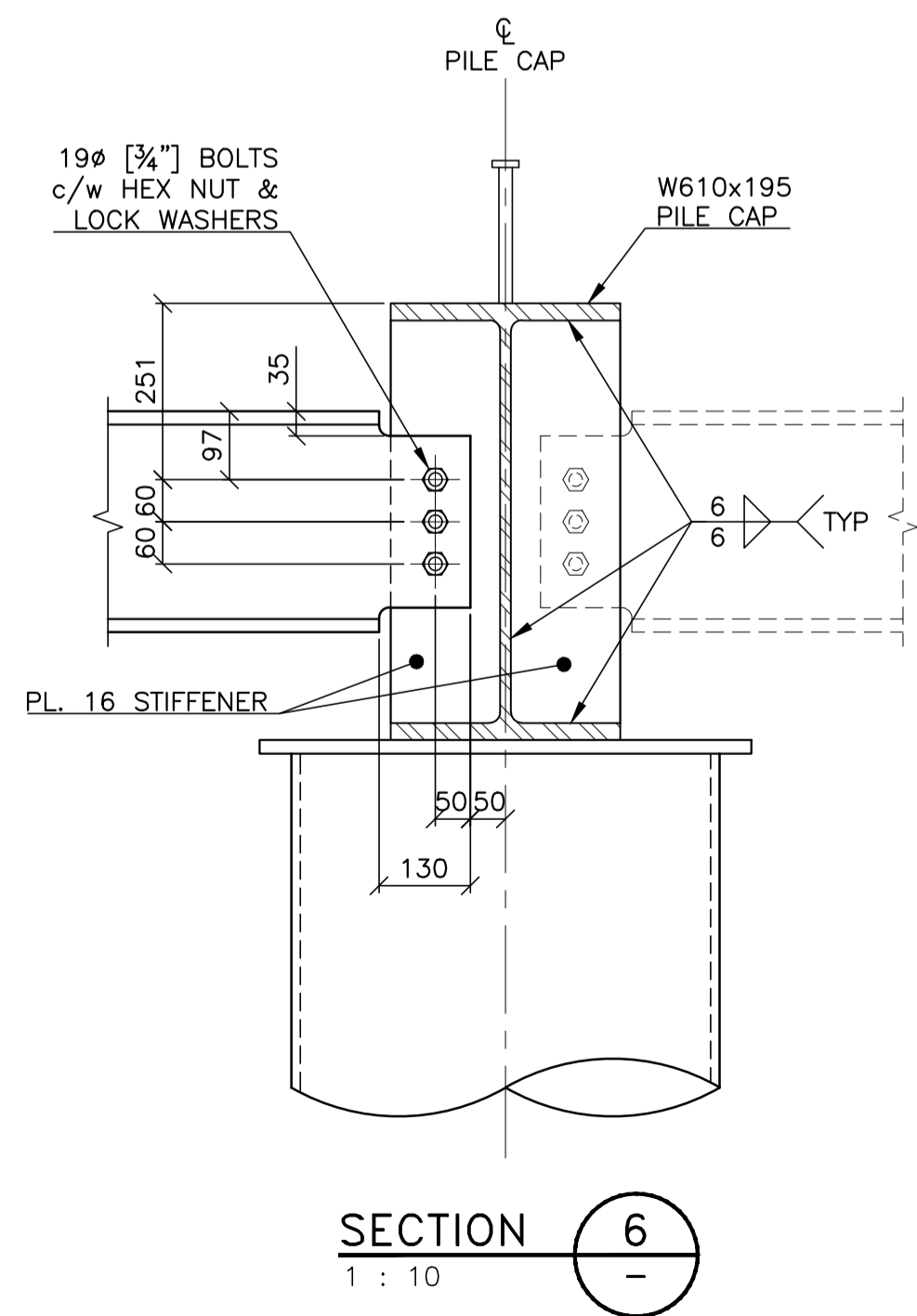
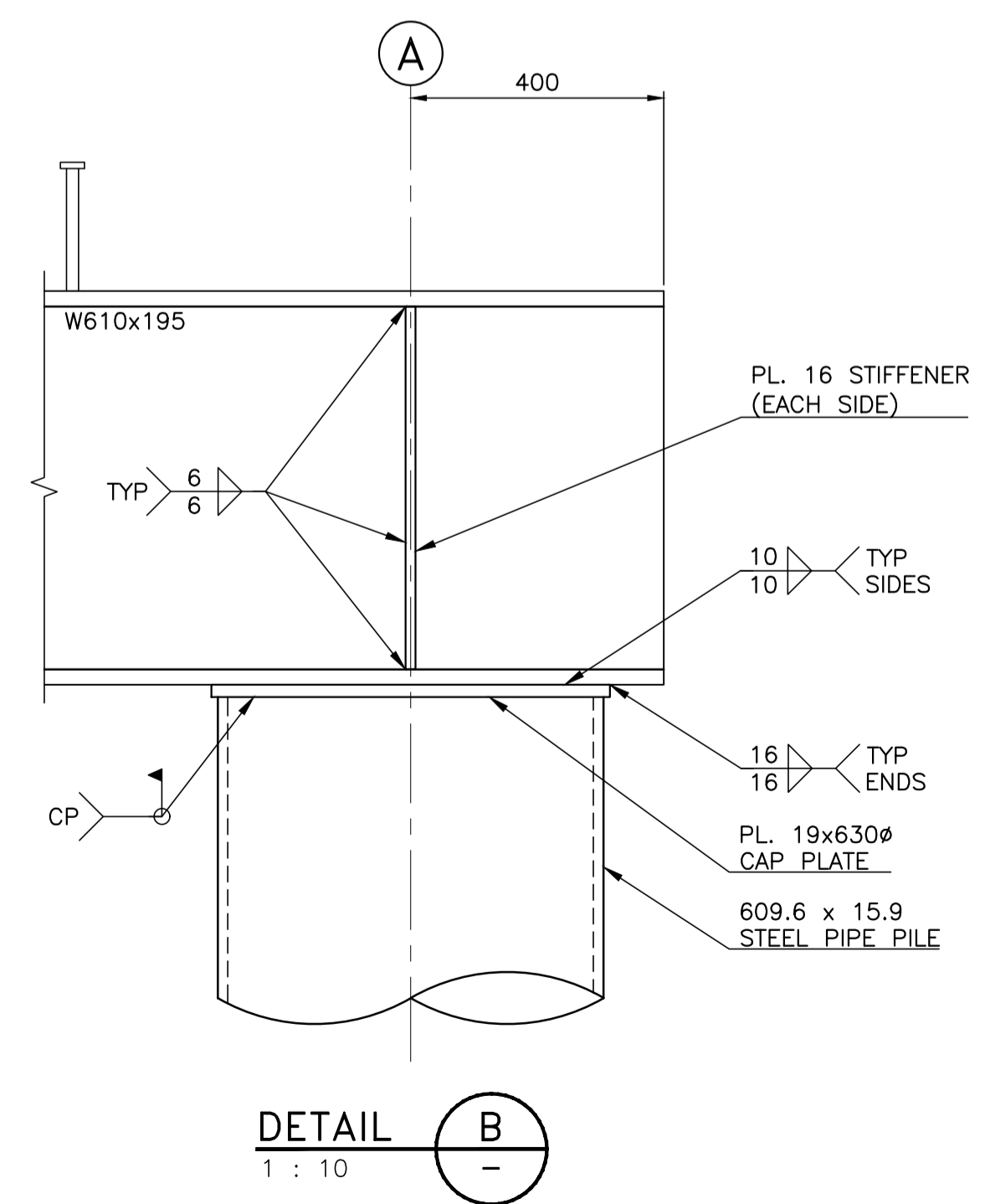
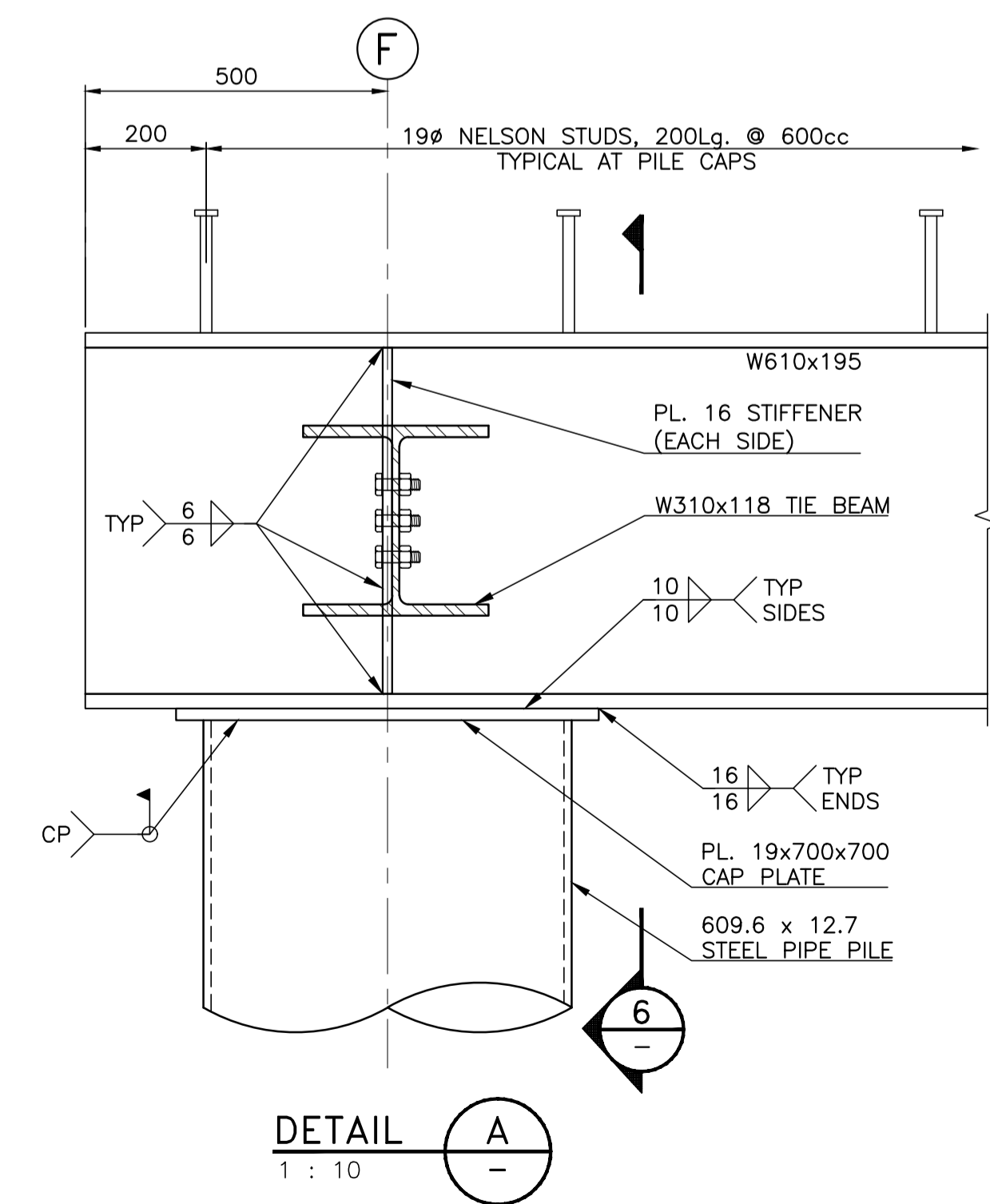
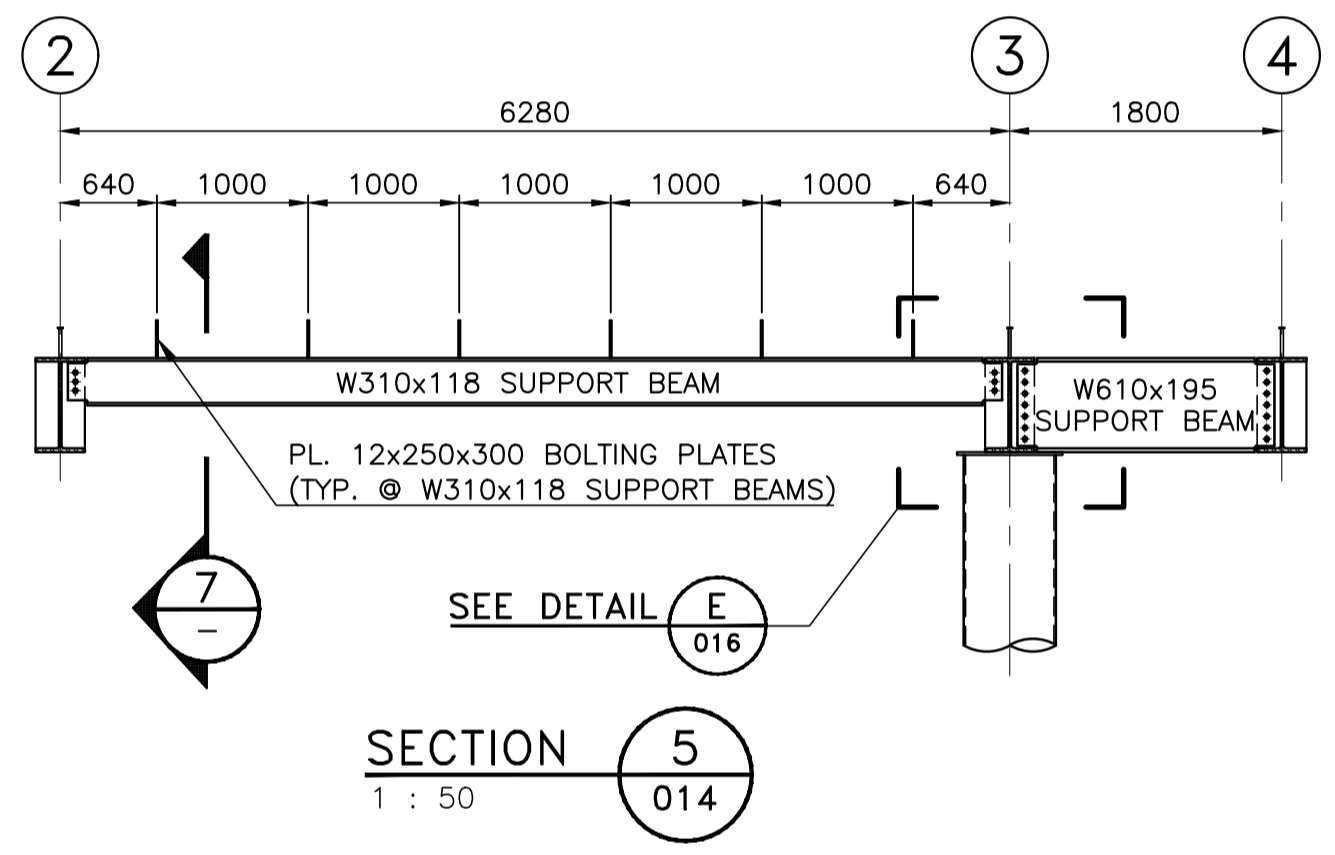
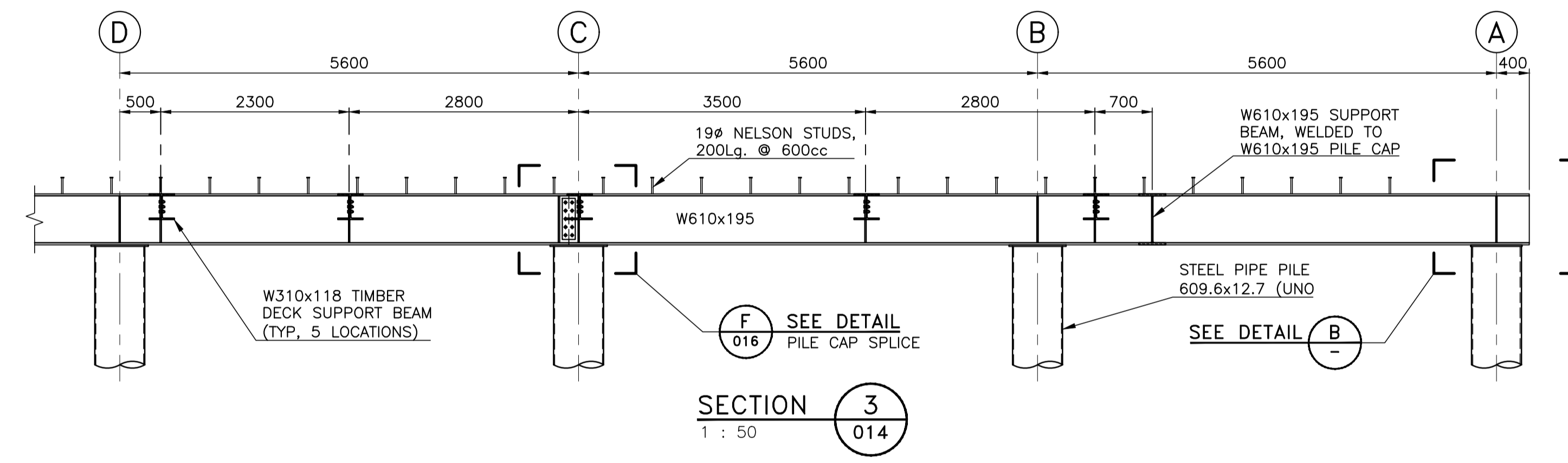
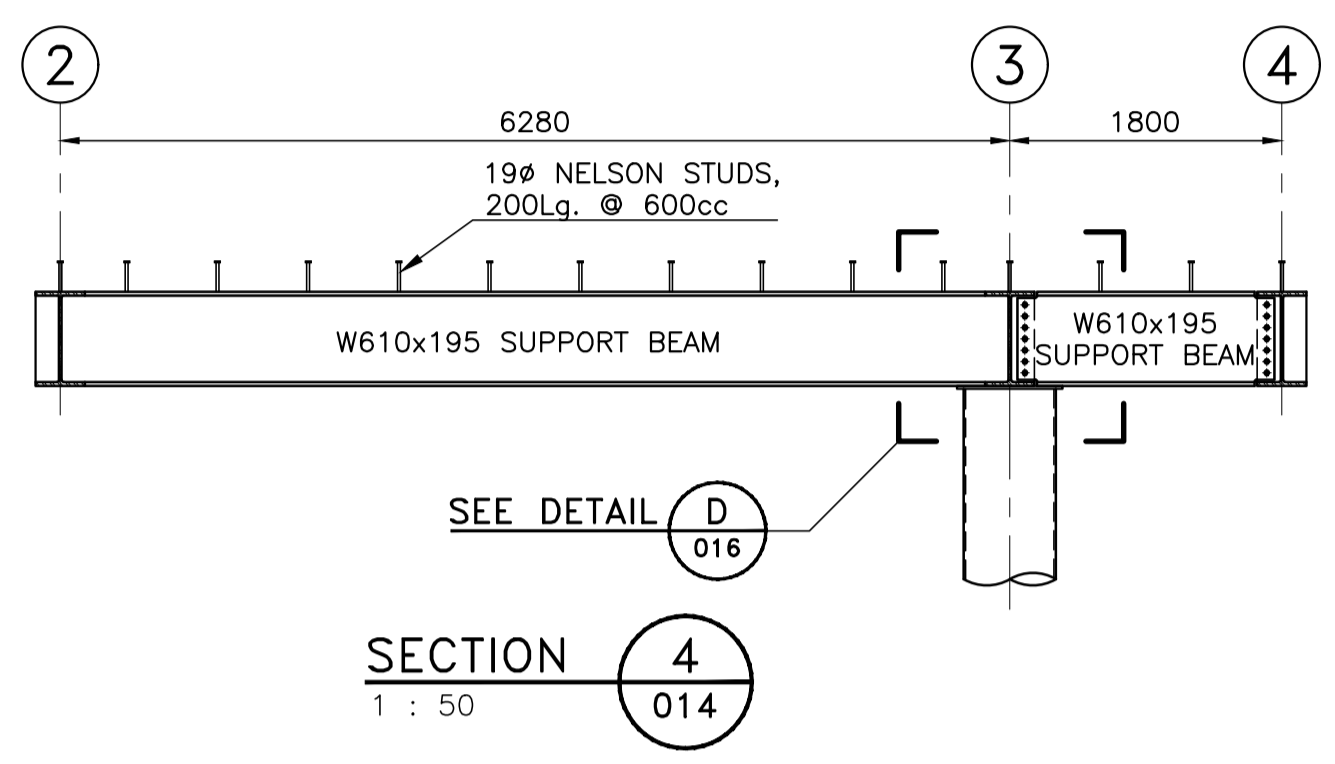
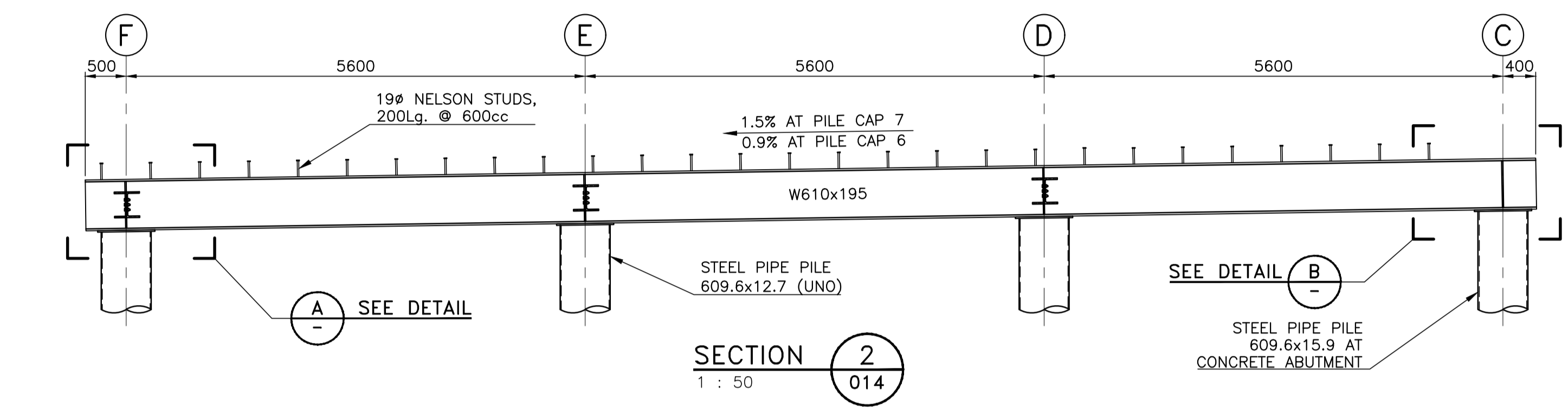
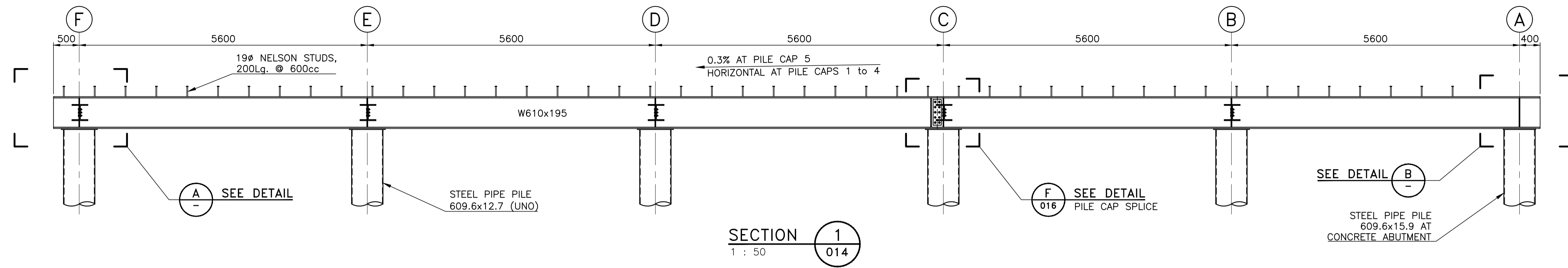
PWGSC, Architectural and Engineering Resources Manager/  
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VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
STEEL STRUCTURE PLAN**

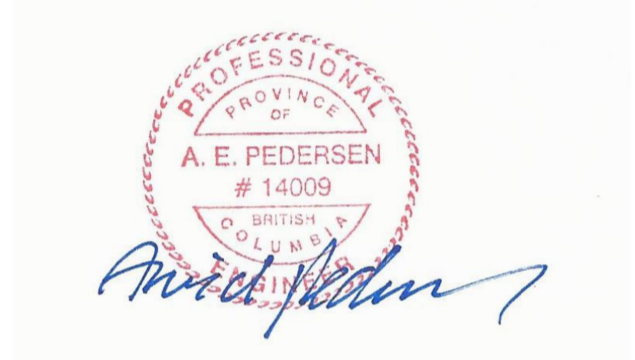
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**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.





NOTES:  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.



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Pacific Division**  
200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**PORT EDWARD  
WHARF  
RECONSTRUCTION**

Approved by/Approve par  
A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessine par  
PDM  
PWSC Project Manager/Administrateur de Projets TPSCG

PWSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
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VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
STEEL STRUCTURE  
SECTIONS AND DETAILS  
SHEET 1 of 2**

Project No./No. du projet <b>216124</b>	Sheet/Fauille <b>015</b> OF	Revision no./ La Révision no. <b>0</b>
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0	ISSUED FOR TENDER	16/10/31

Client/client  
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Pacific Division**  
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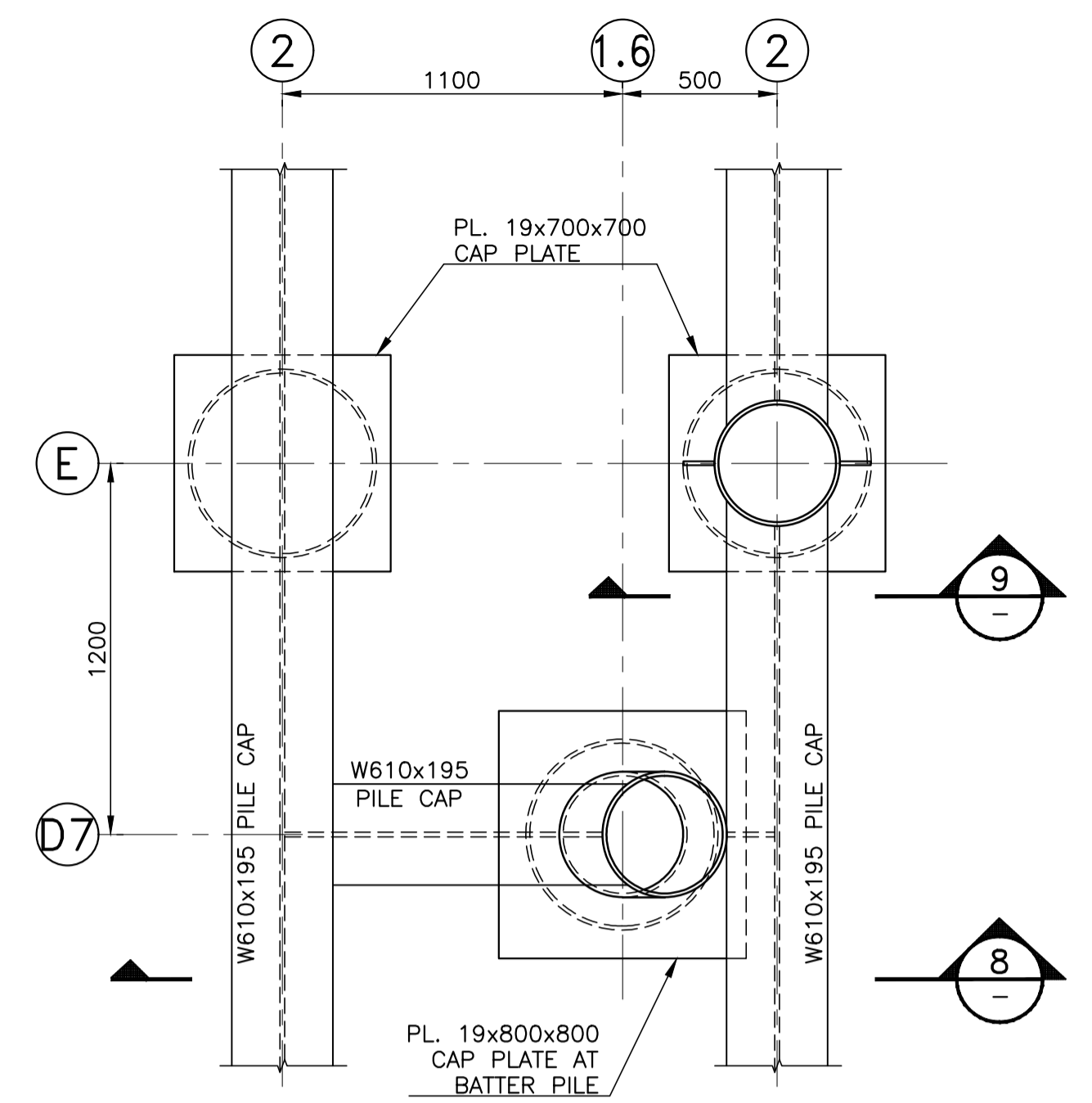
Project title/Titre du projet  
**PORT EDWARD  
WHARF RECONSTRUCTION**

Approved by/Approuvé par  
A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
PDM  
PWGSC Project Manager/Administrateur de Projets TPSCG

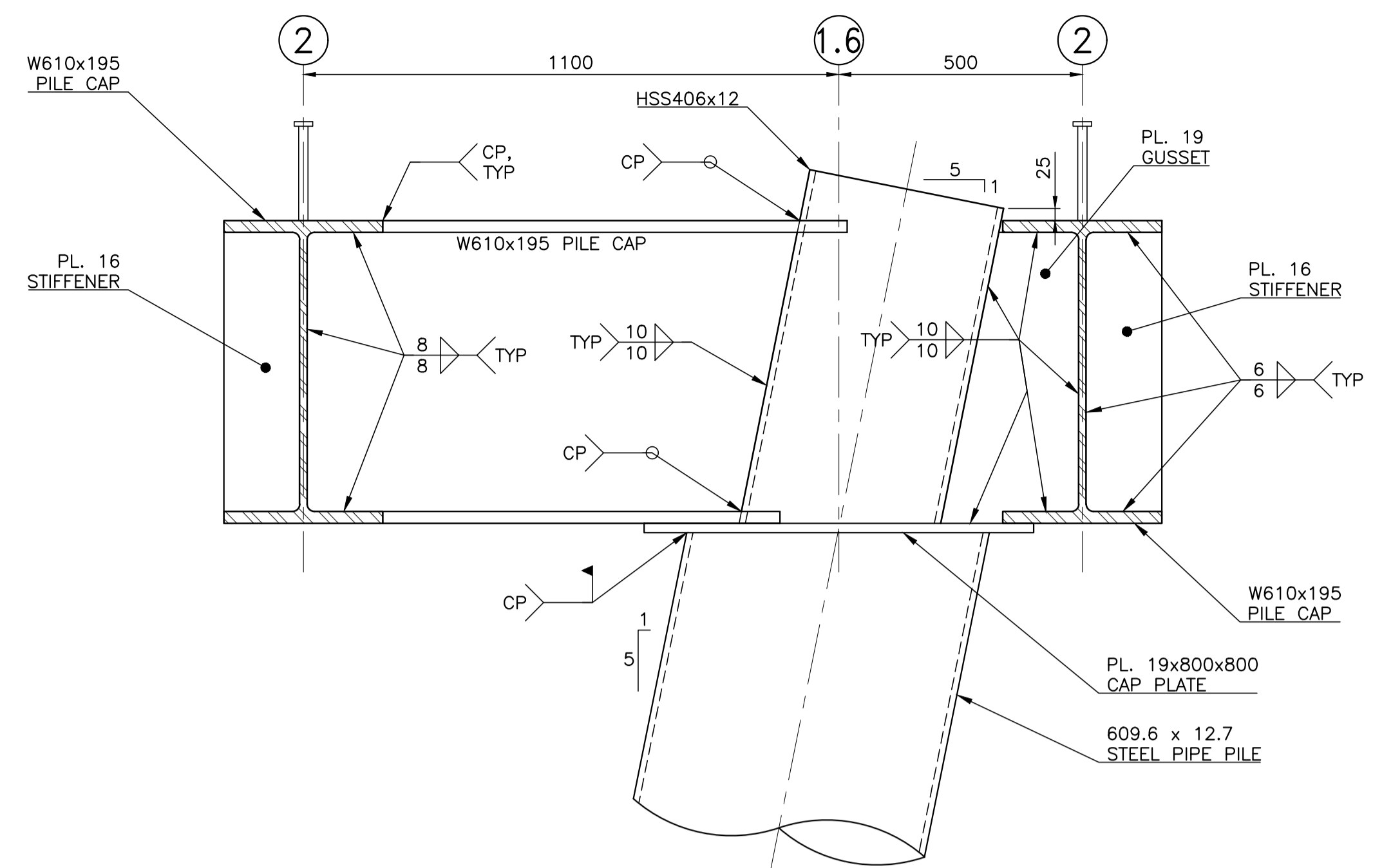
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
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VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
STEEL STRUCTURE  
SECTIONS AND DETAILS  
SHEET 2 of 2**

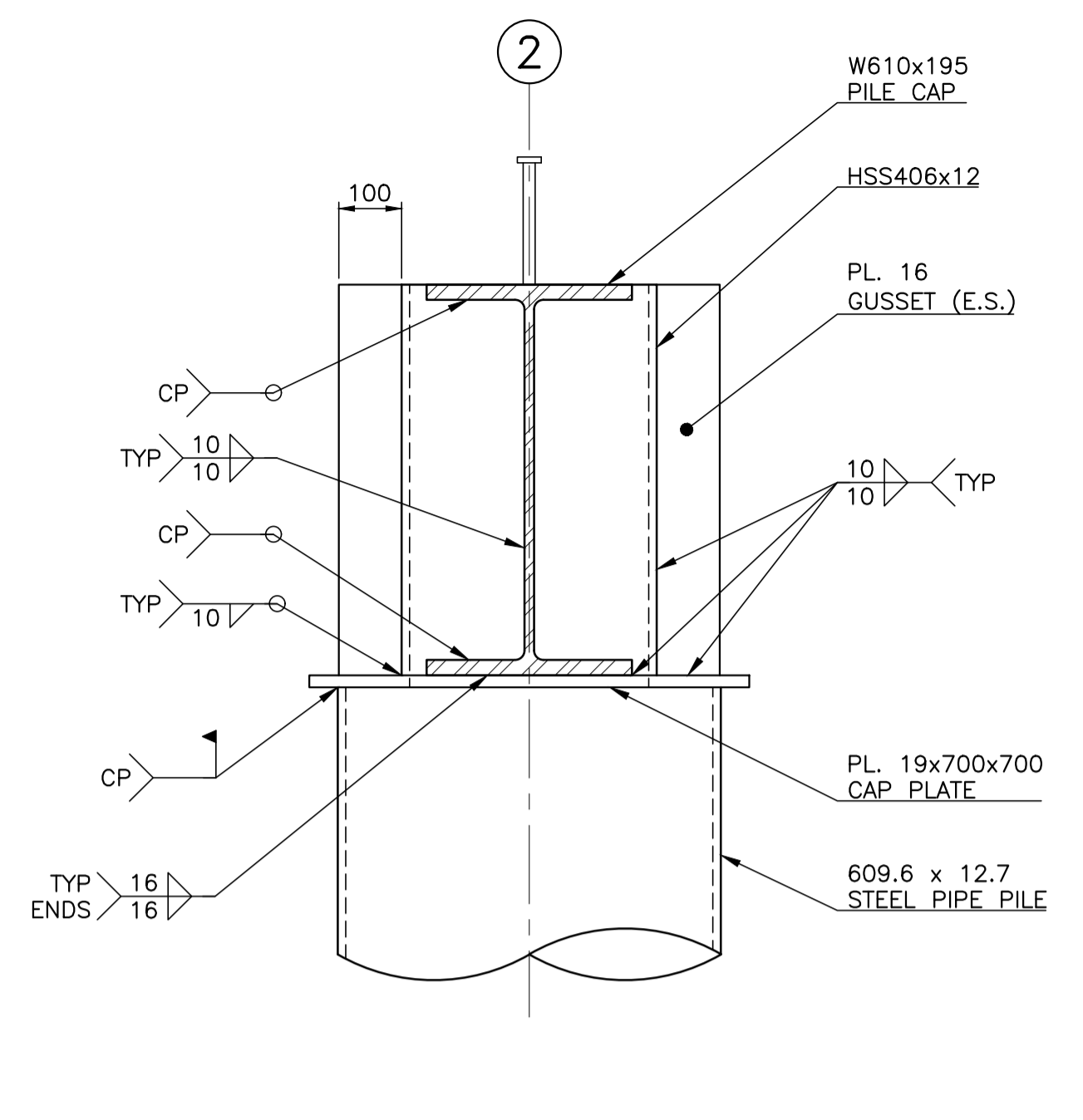
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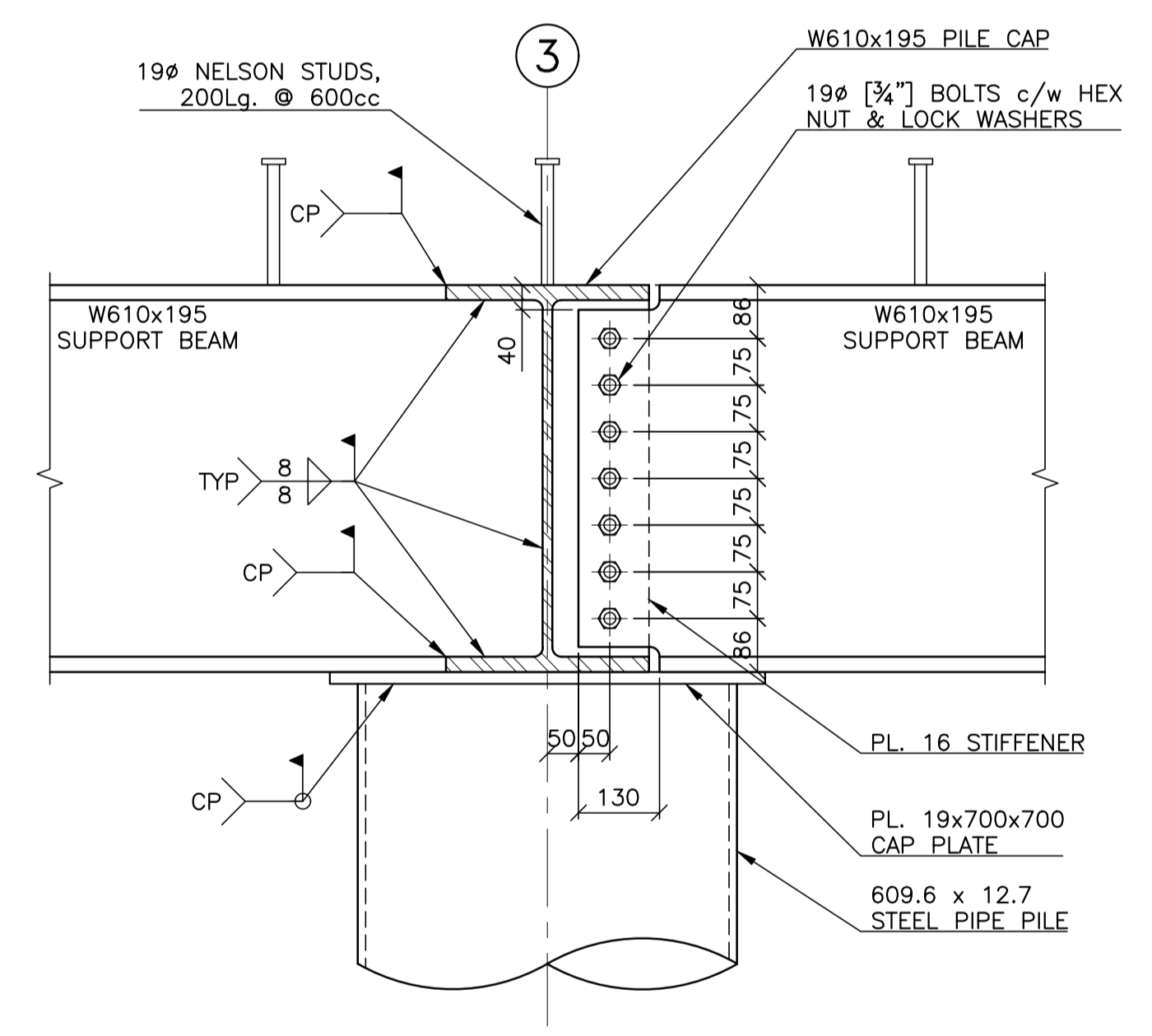
DETAIL C  
1 : 20  
014



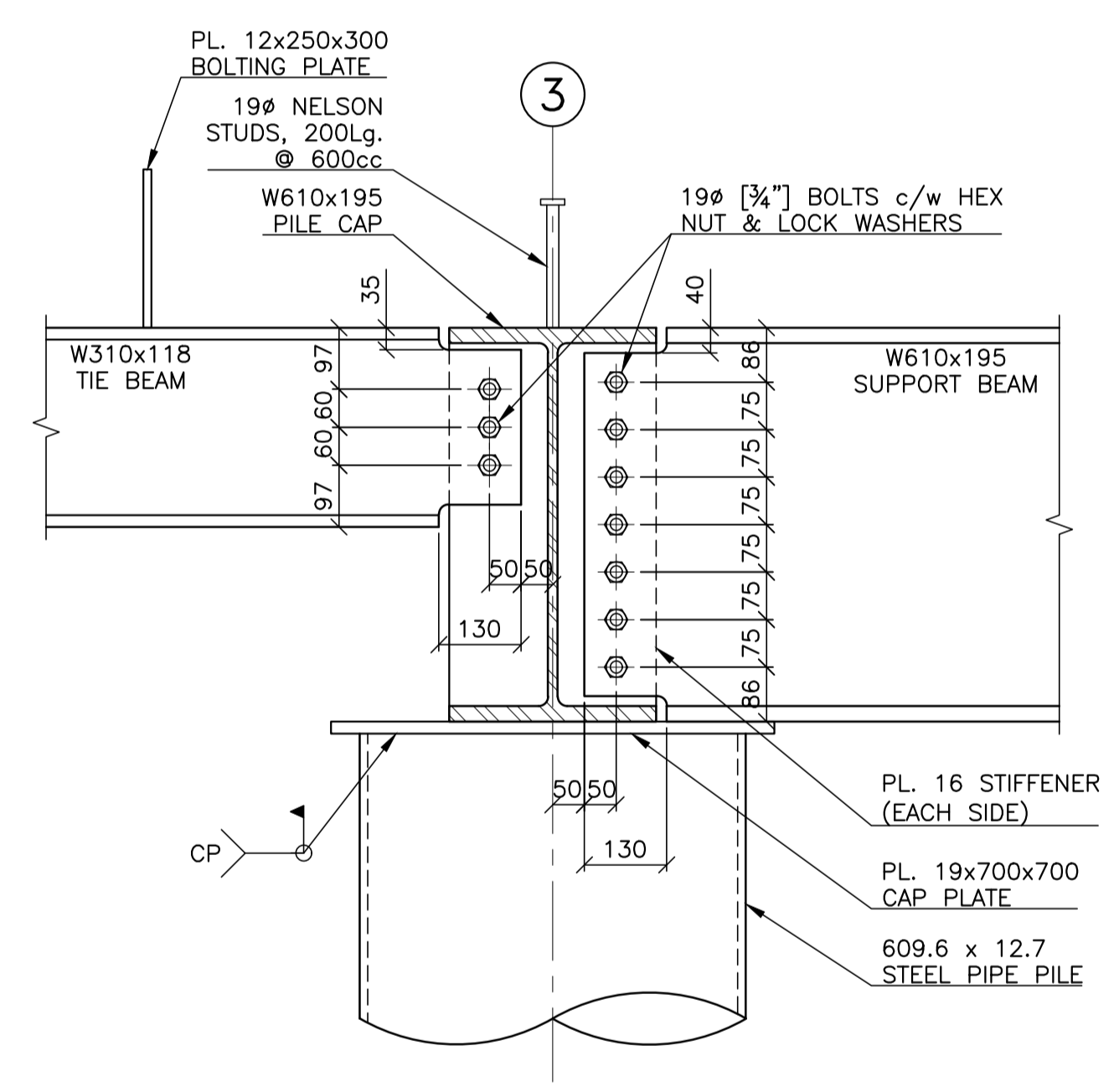
SECTION 8  
1 : 10  
-



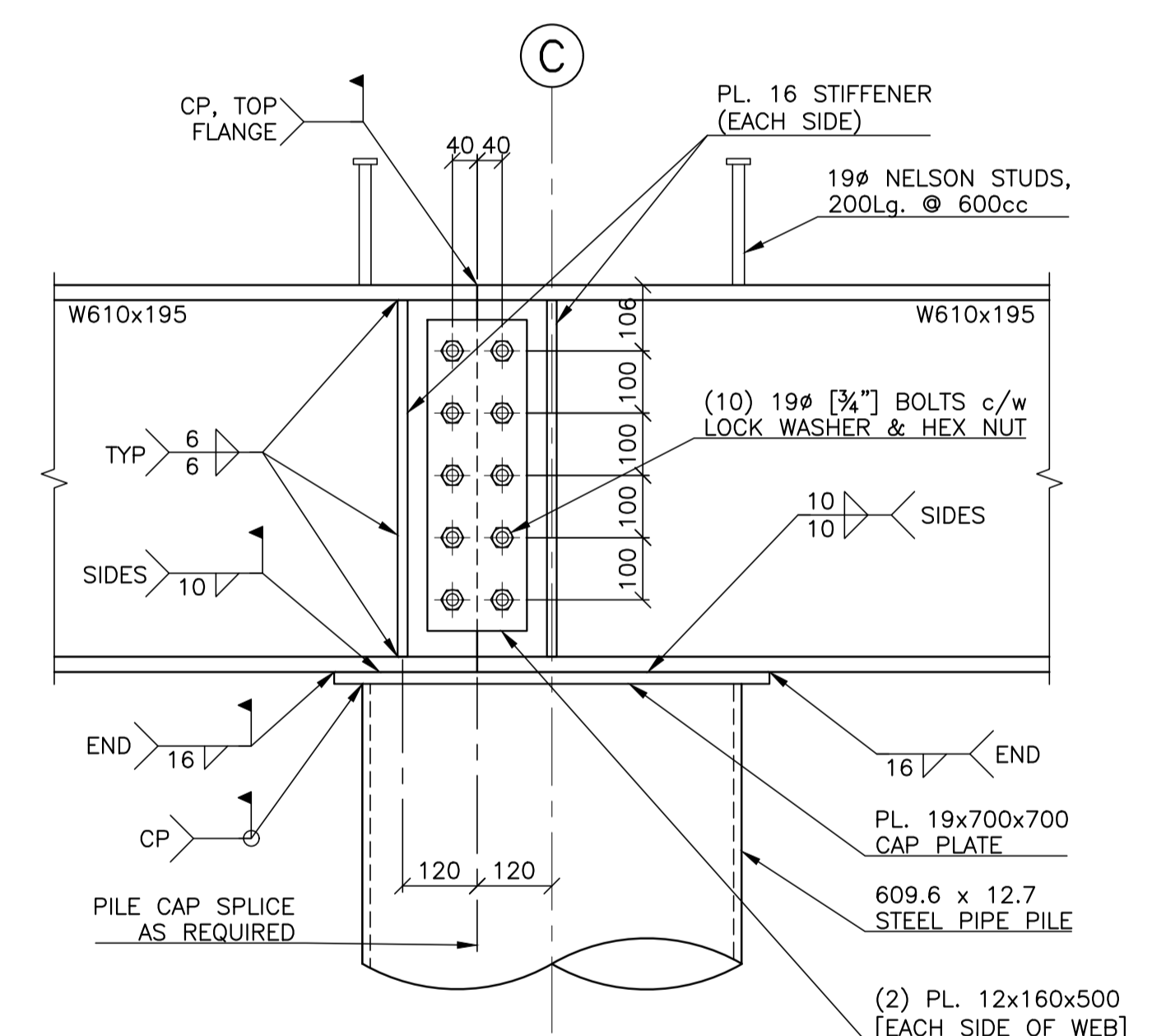
SECTION 9  
1 : 10  
-



DETAIL D  
1 : 10  
015



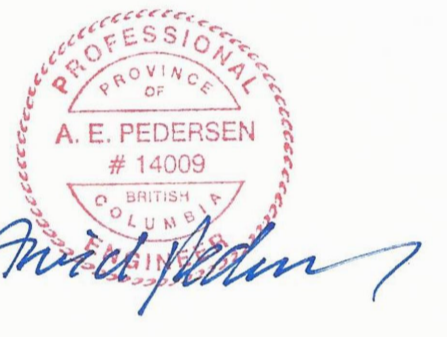
DETAIL E  
1 : 10  
015



DETAIL F  
1 : 10  
015

[SUPPORT/TIE BEAMS NOT SHOWN FOR CLARITY]

NOTES:  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.



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**PORT EDWARD**

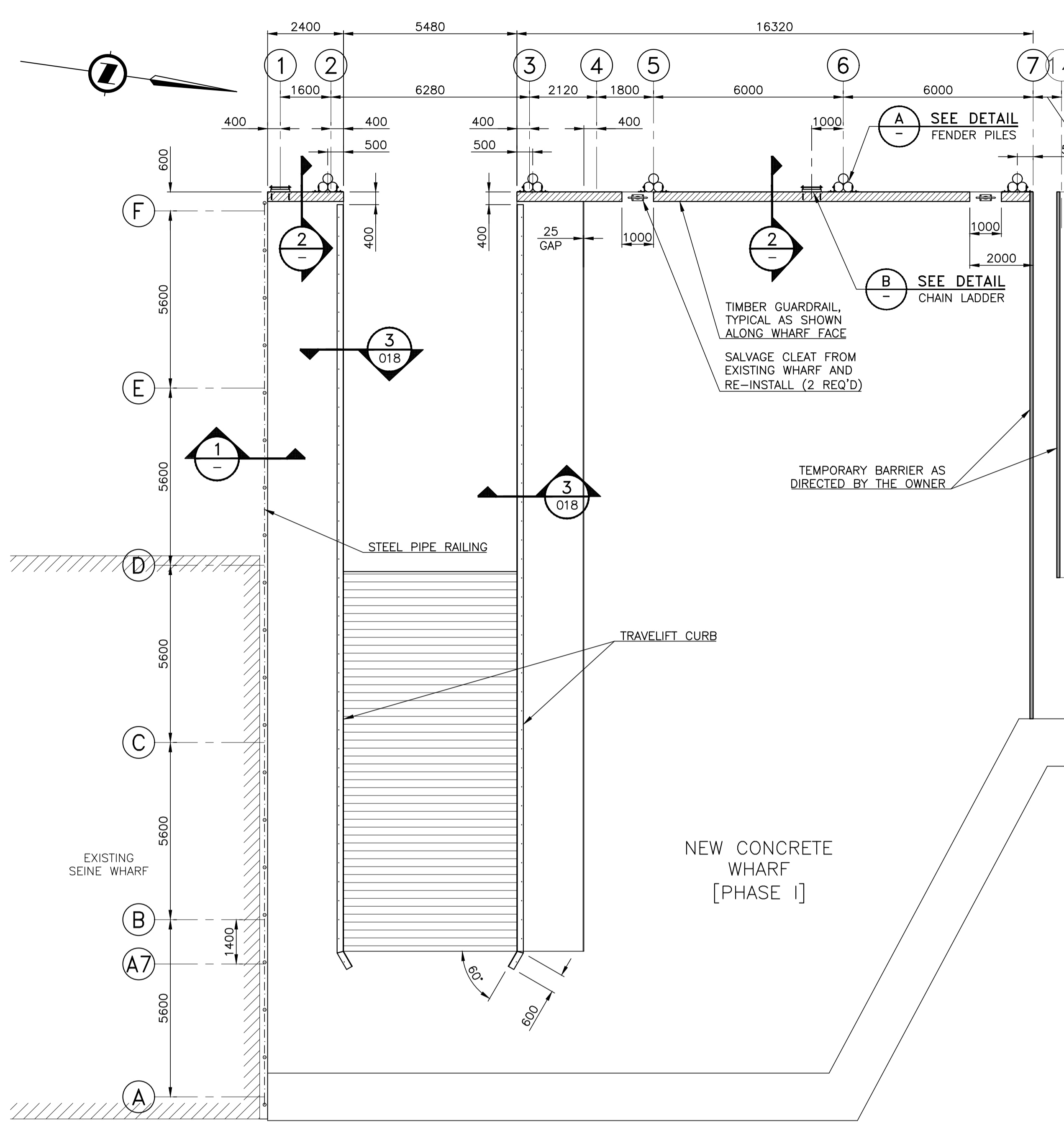
**WHARF RECONSTRUCTION**

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A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
PDM  
PWGSC Project Manager/Administrateur de Projets TPSCG

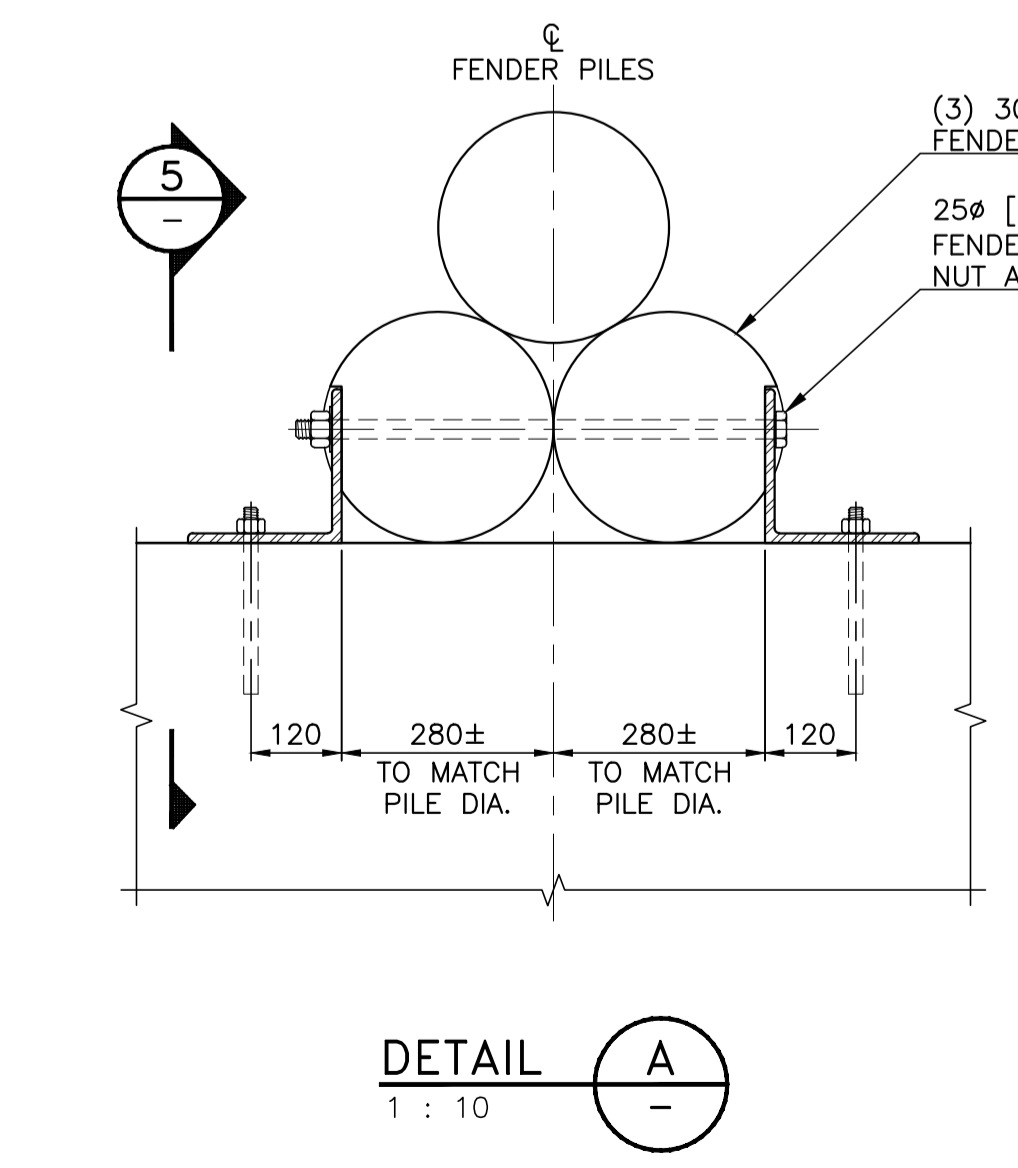
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
Client/client  
VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I  
RAILING AND  
MISCELLANEOUS DETAILS**

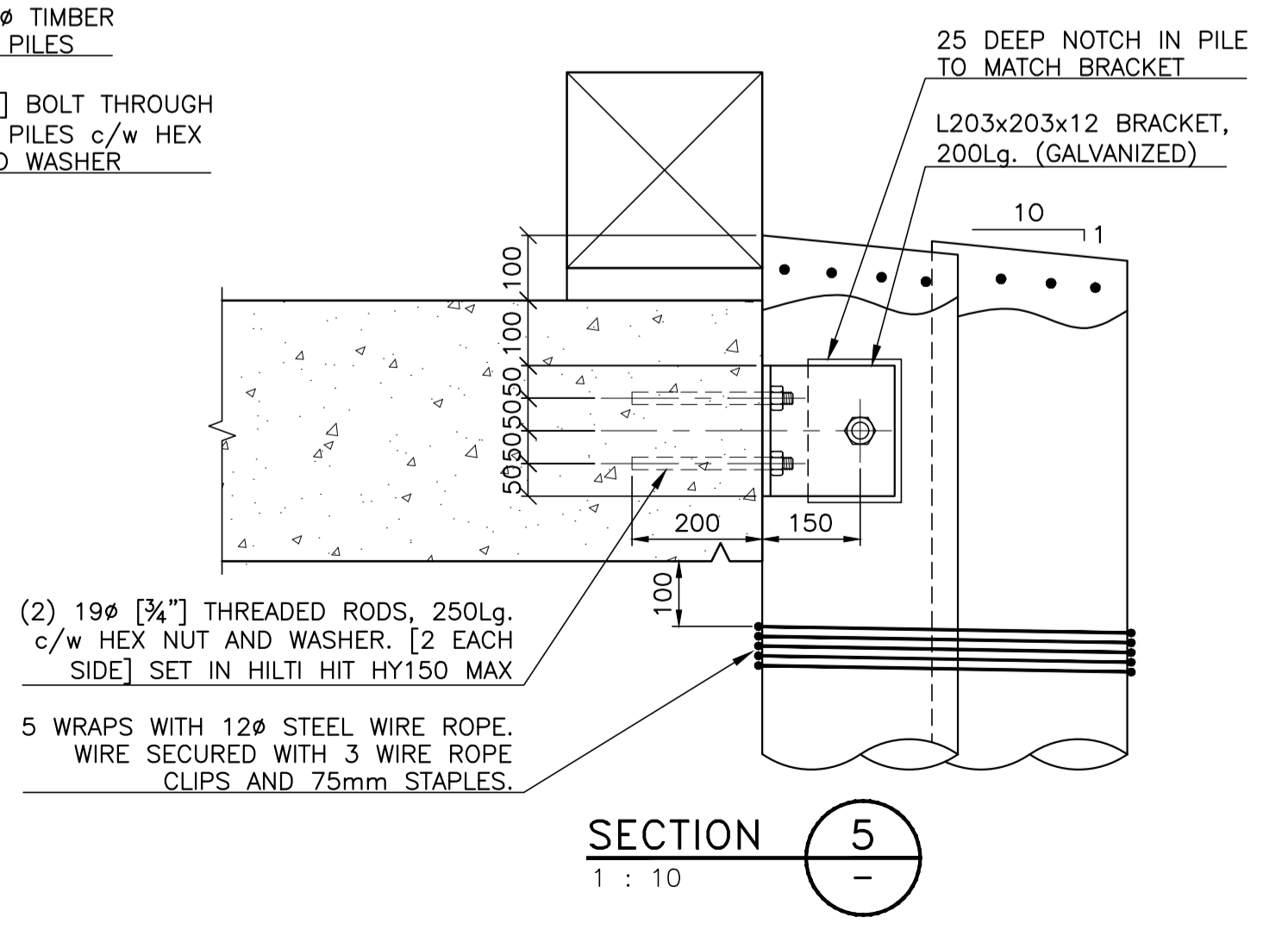
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	017 OF	0



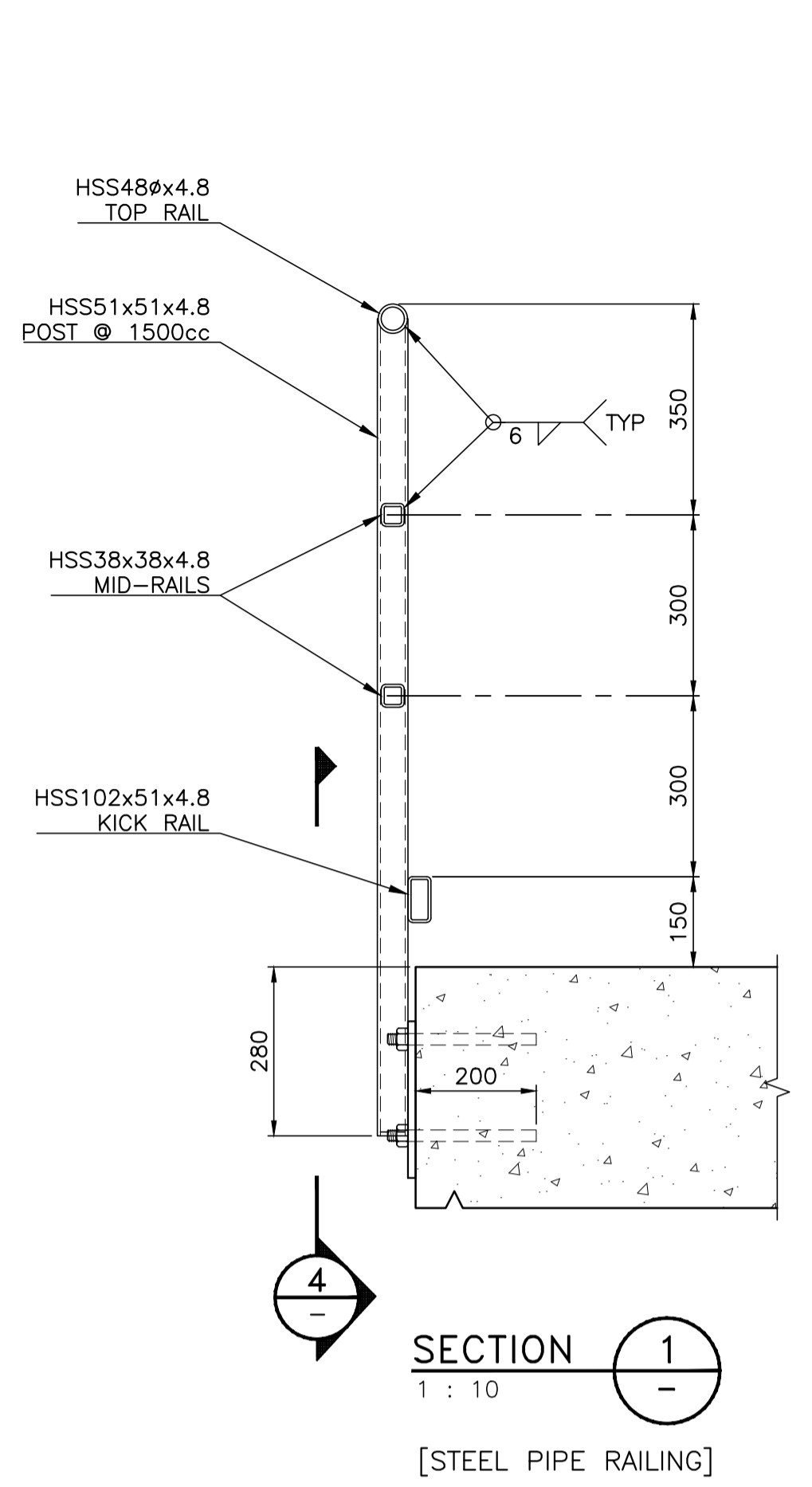
**RAILING PLAN**  
1 : 100



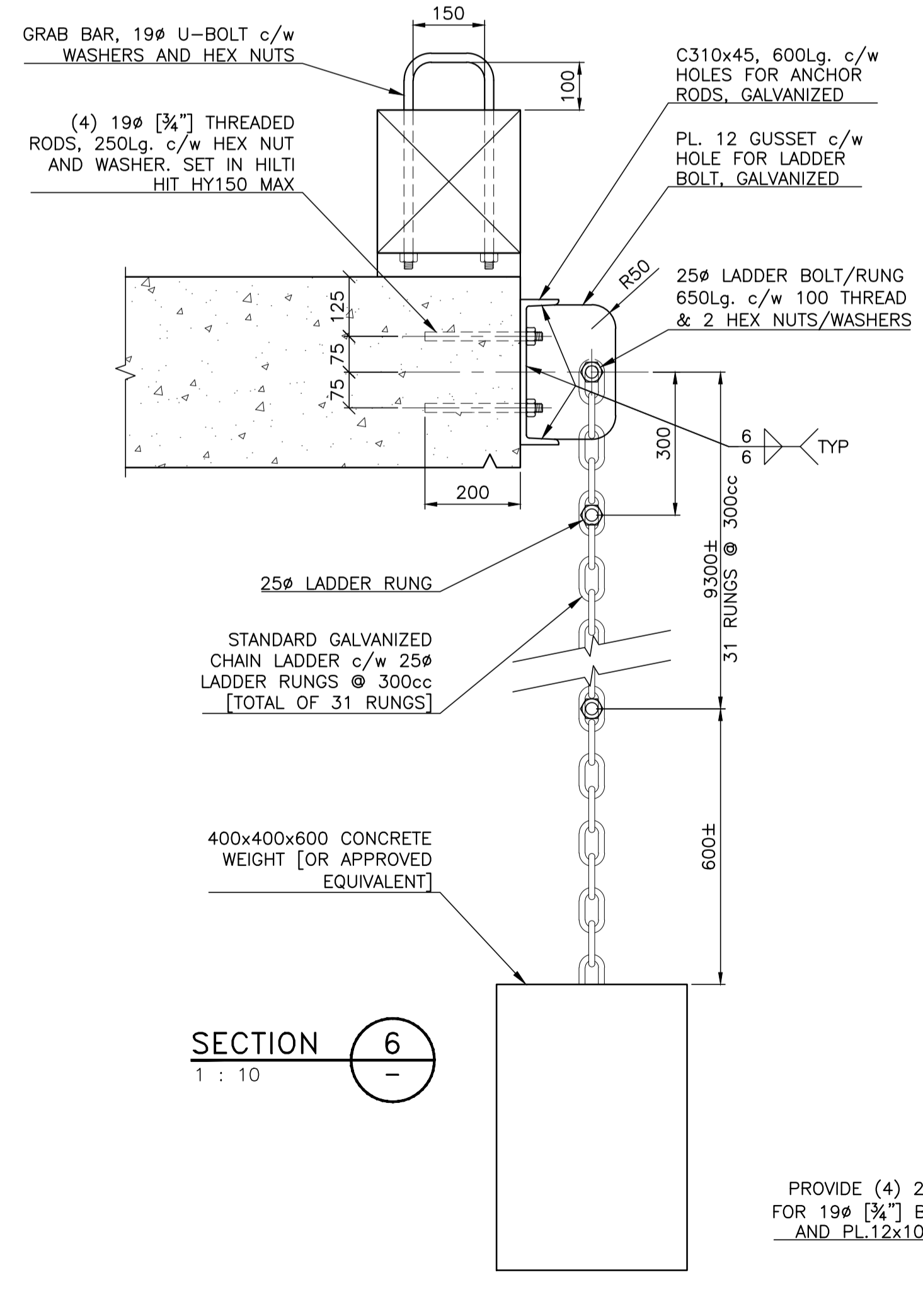
**DETAIL A**  
1 : 10



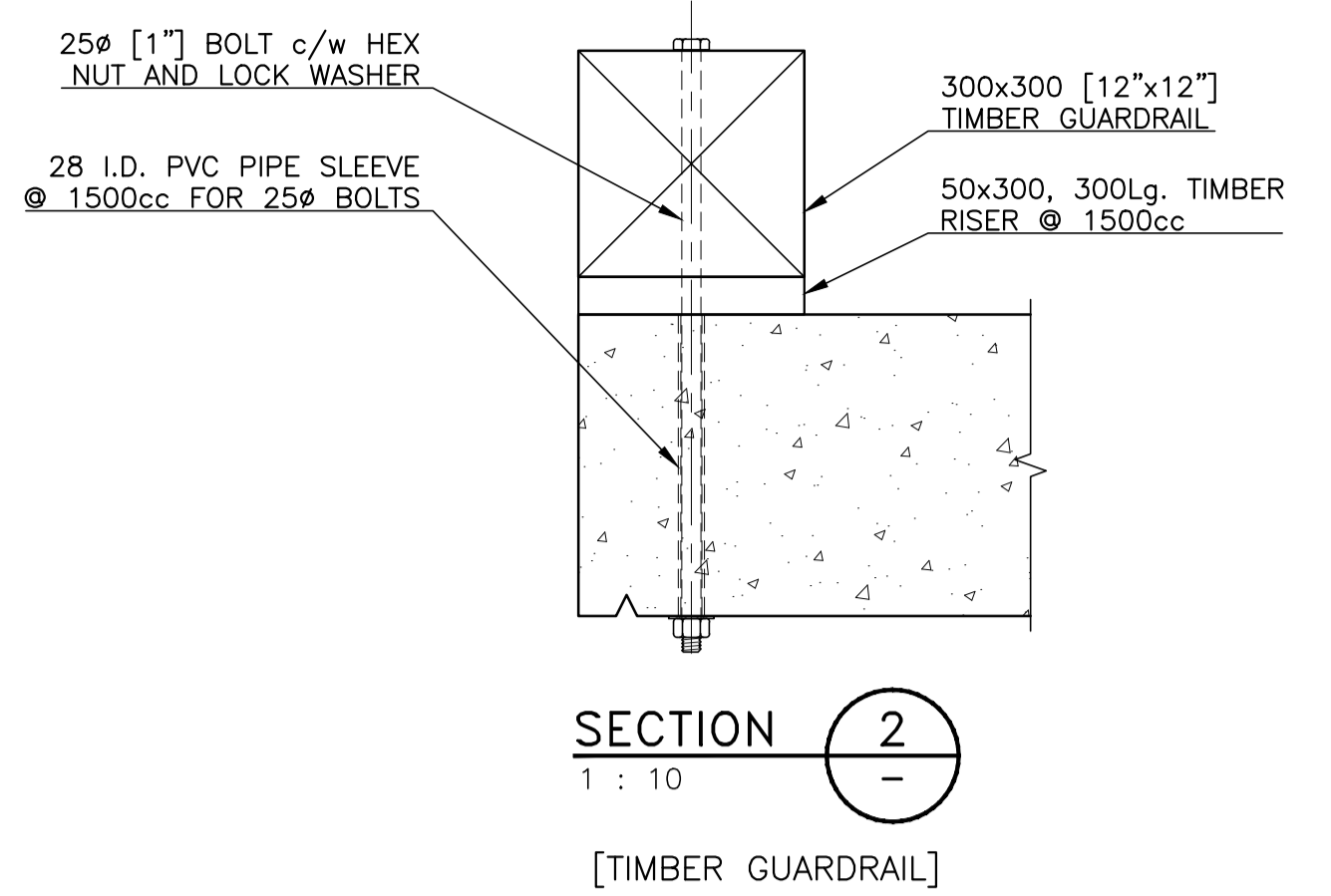
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1 : 10



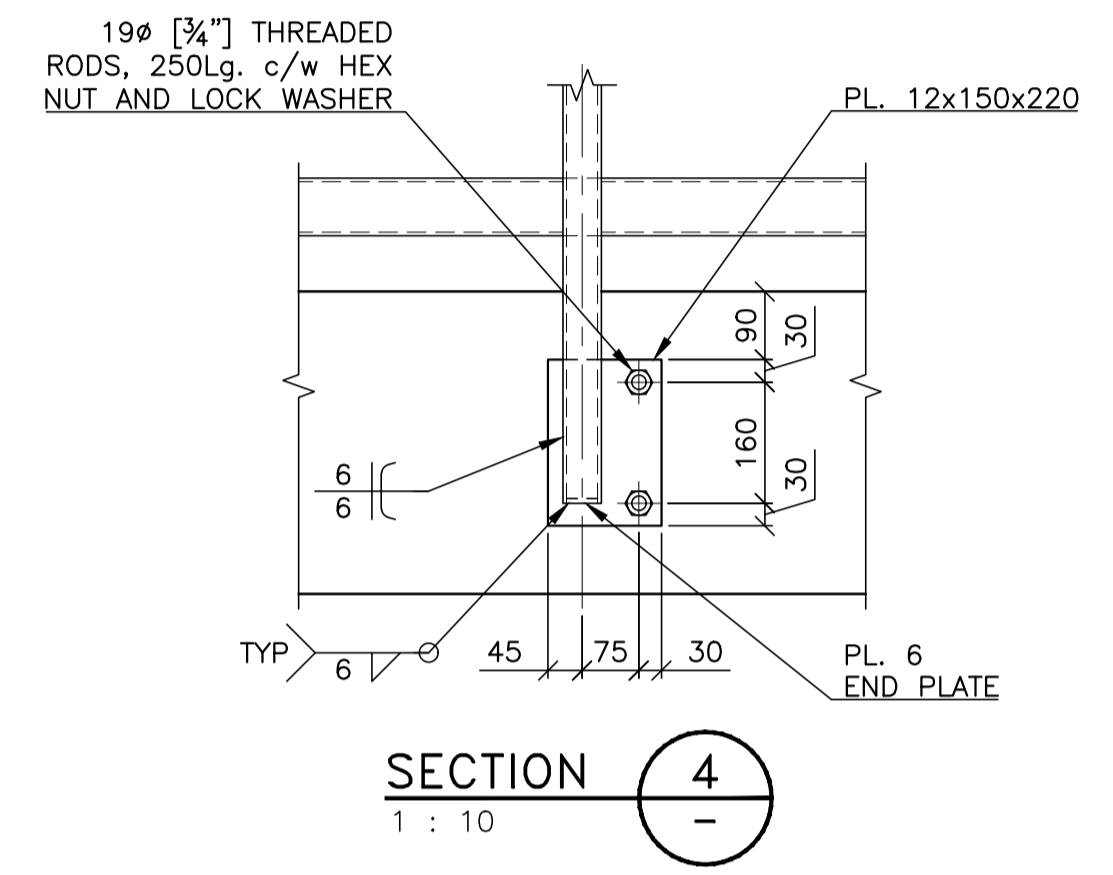
**SECTION 1**  
1 : 10  
[STEEL PIPE RAILING]



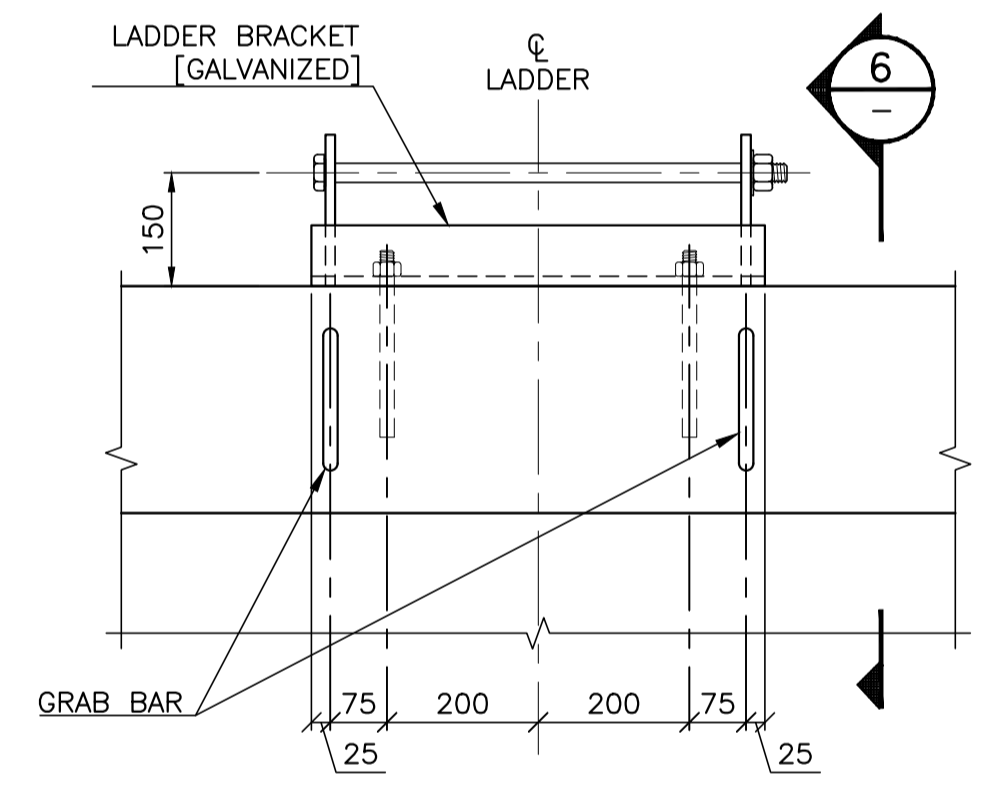
**SECTION 6**  
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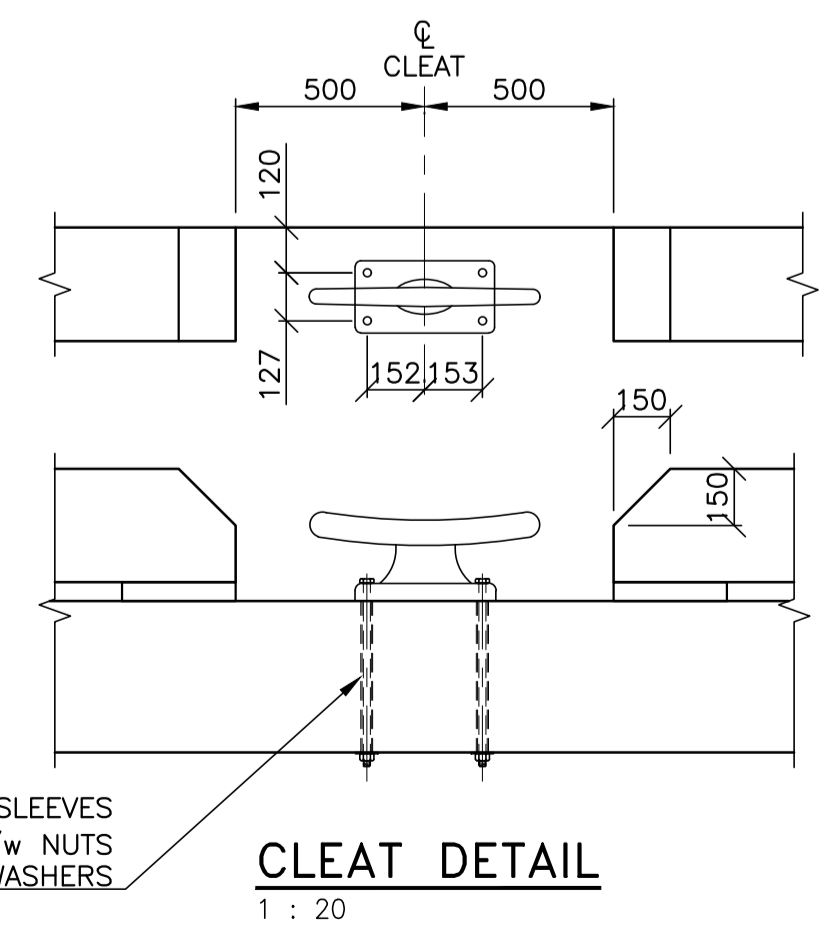
**SECTION 2**  
1 : 10  
[TIMBER GUARDRAIL]



**SECTION 4**  
1 : 10



**DETAIL B**  
1 : 10  
[LADDER DETAIL, 2 REQ'D]



**CLEAT DETAIL**  
1 : 20

**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.



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**PORT EDWARD**

**WHARF RECONSTRUCTION**

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A.P.  
Designed by/Concept par  
A.P.

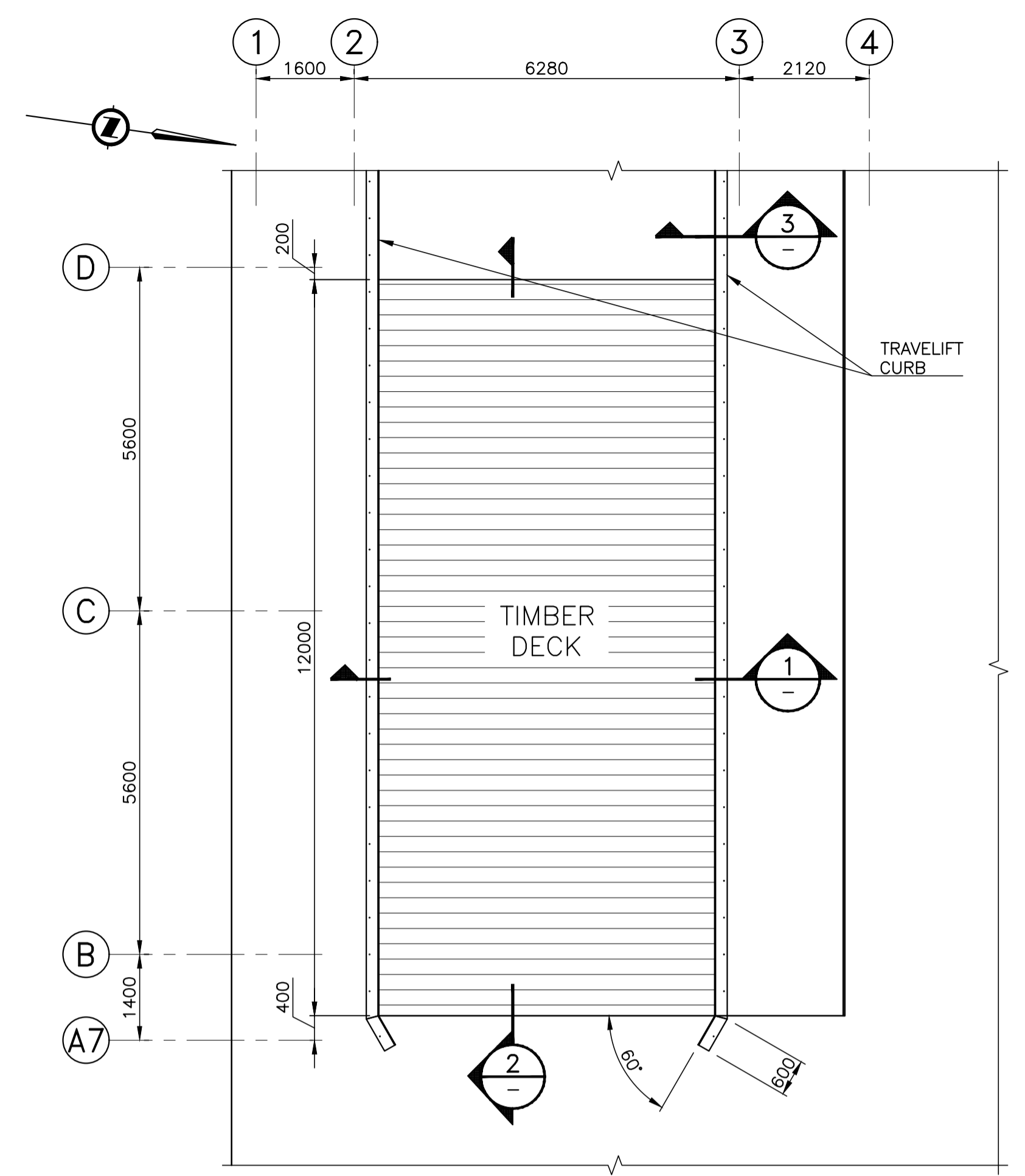
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PDM  
PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

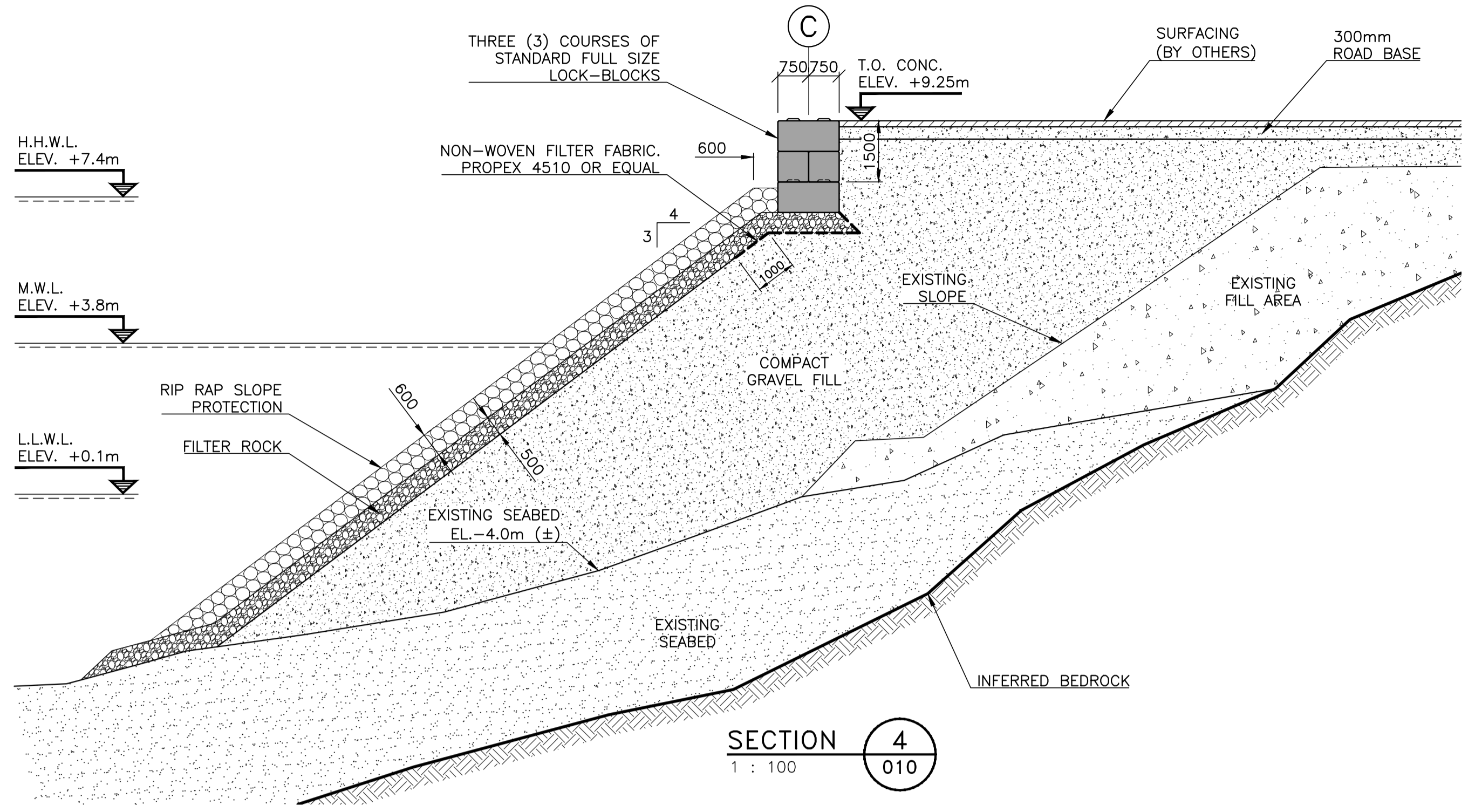
Client/client  
VJA

Drawing title/Titre du dessin  
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TIMBER DECK AND  
SLOPE PROTECTION**

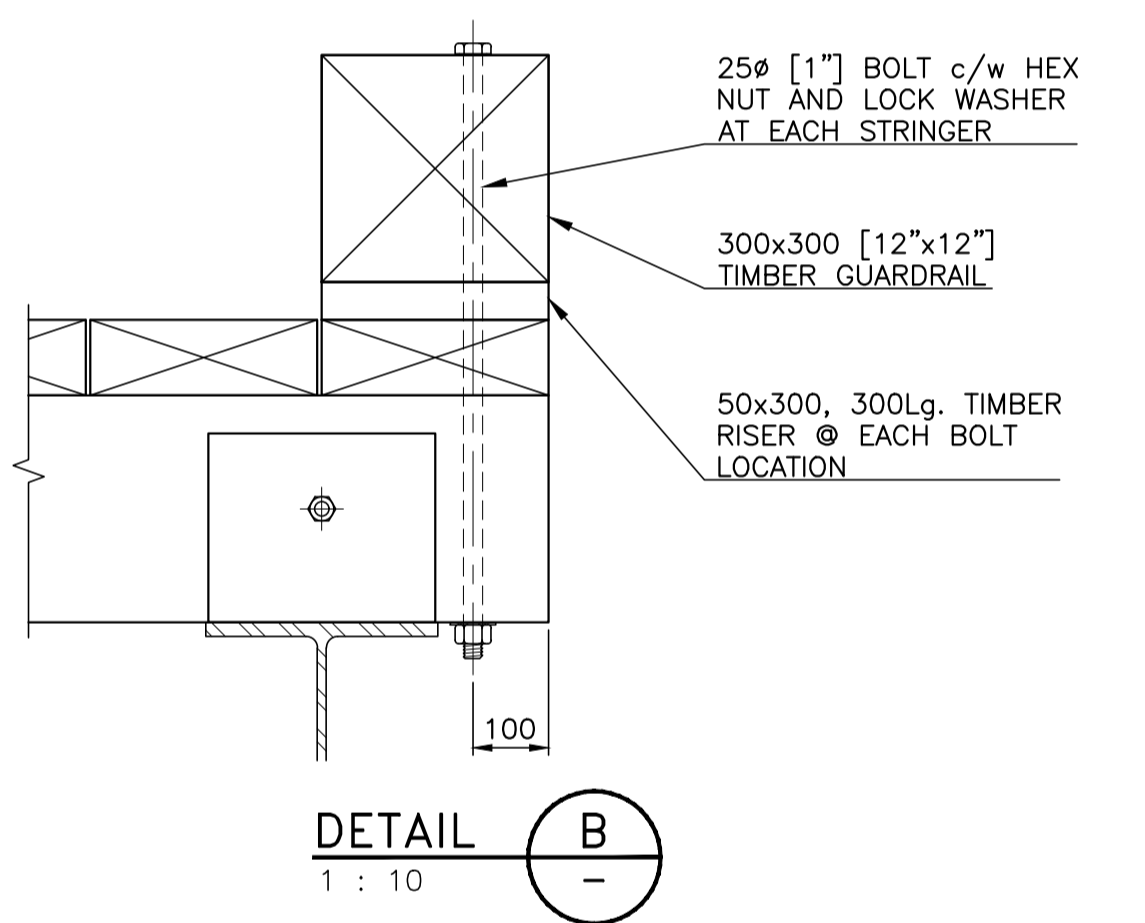
Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
216124	018 OF	0



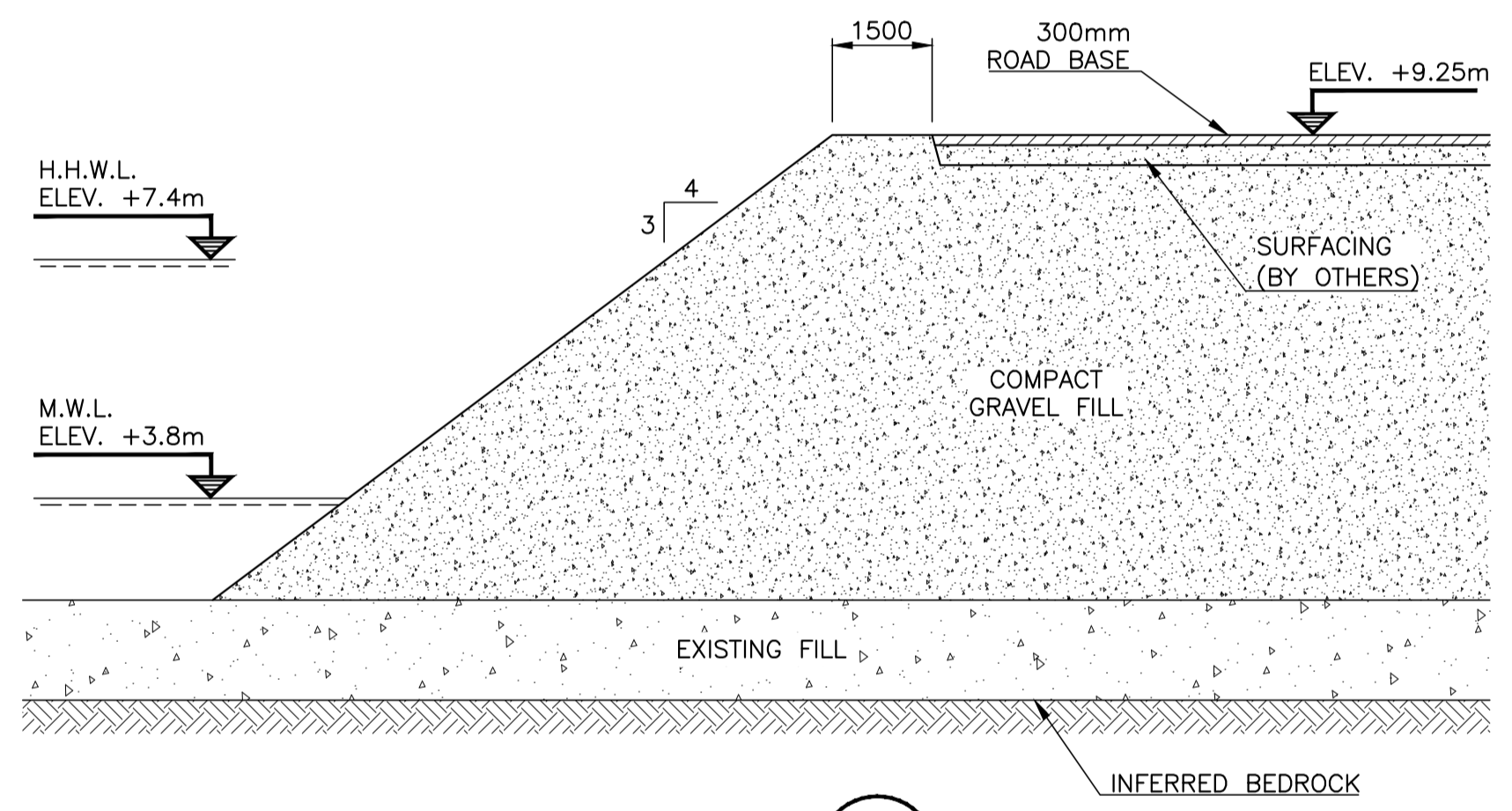
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1 : 75



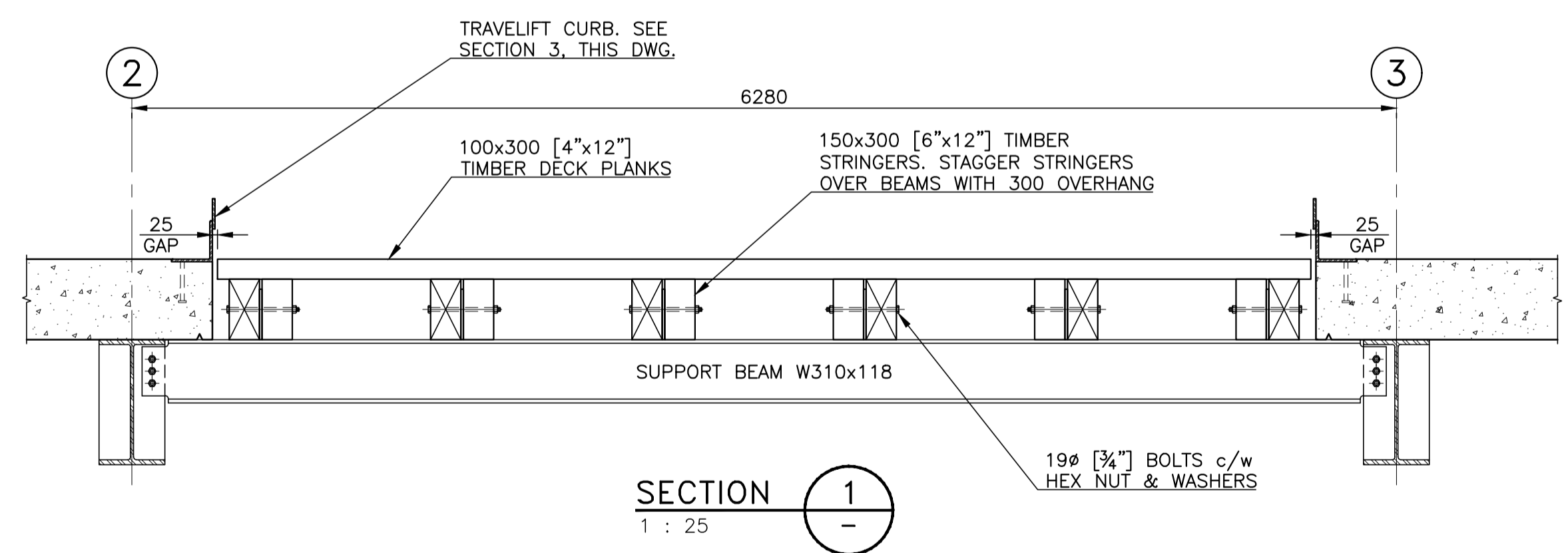
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1 : 100



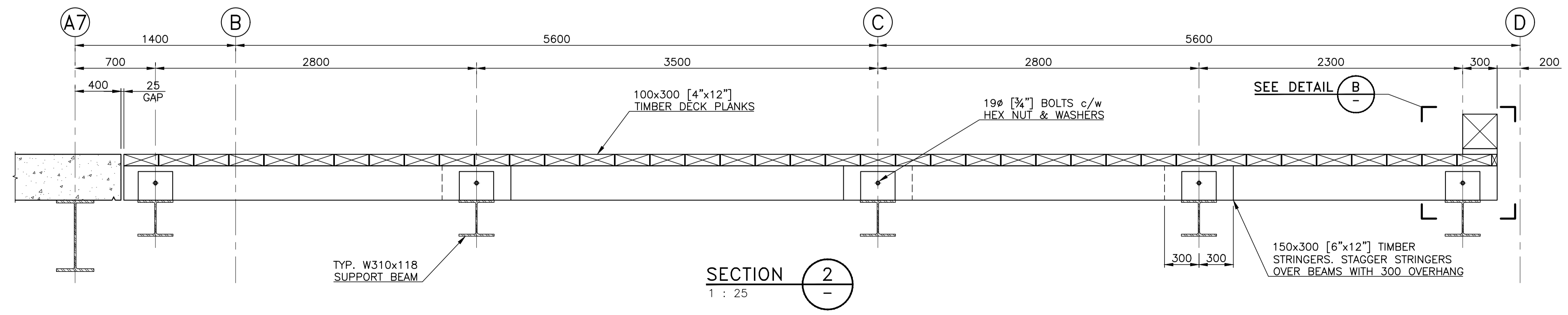
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1 : 10



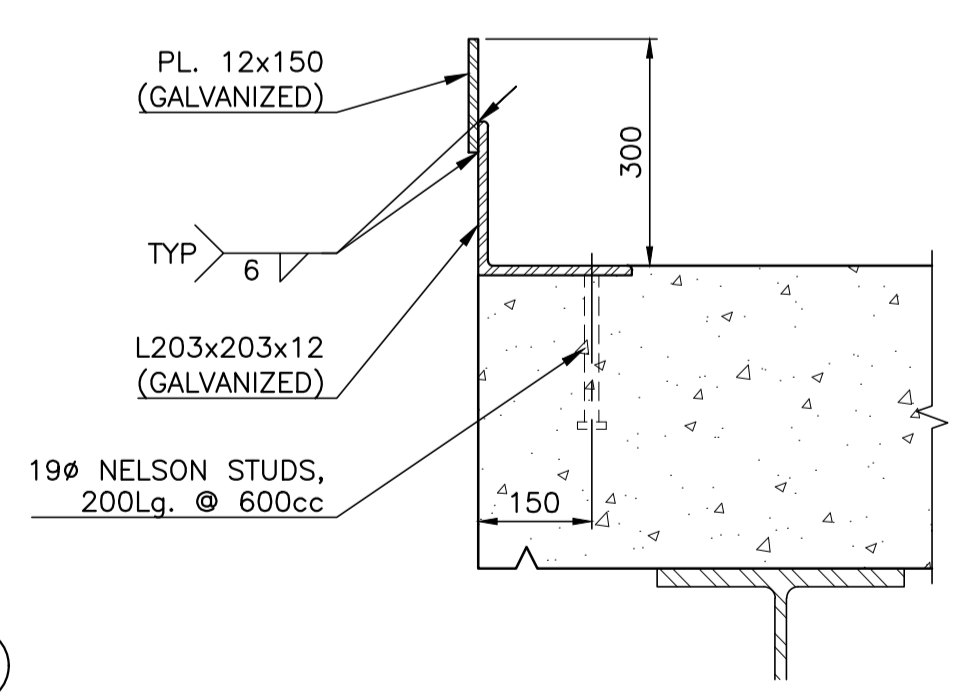
**SECTION 5**  
1 : 100



**SECTION 1**  
1 : 25

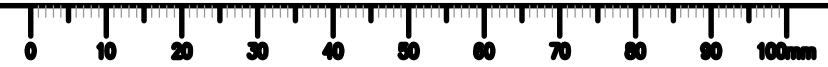


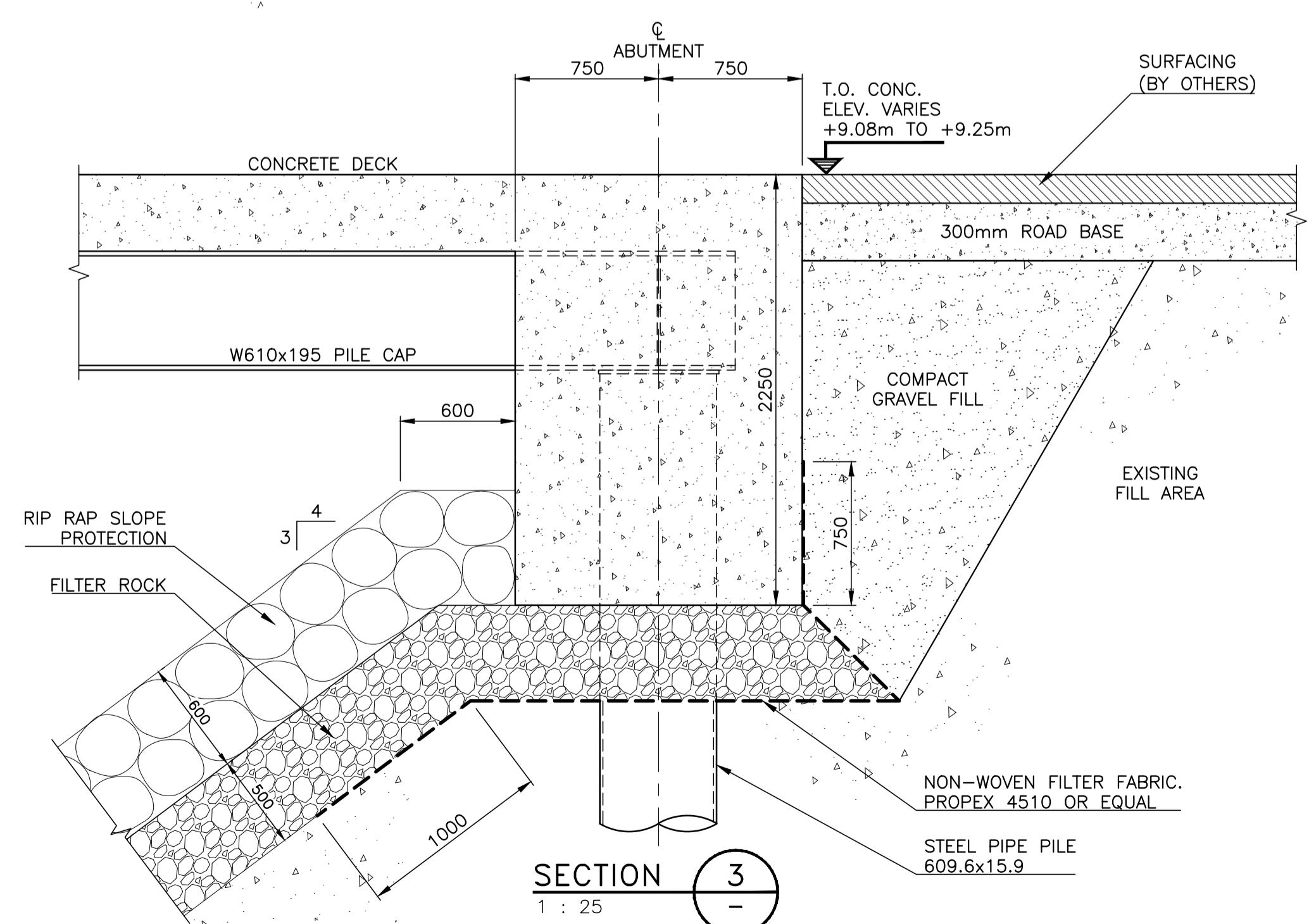
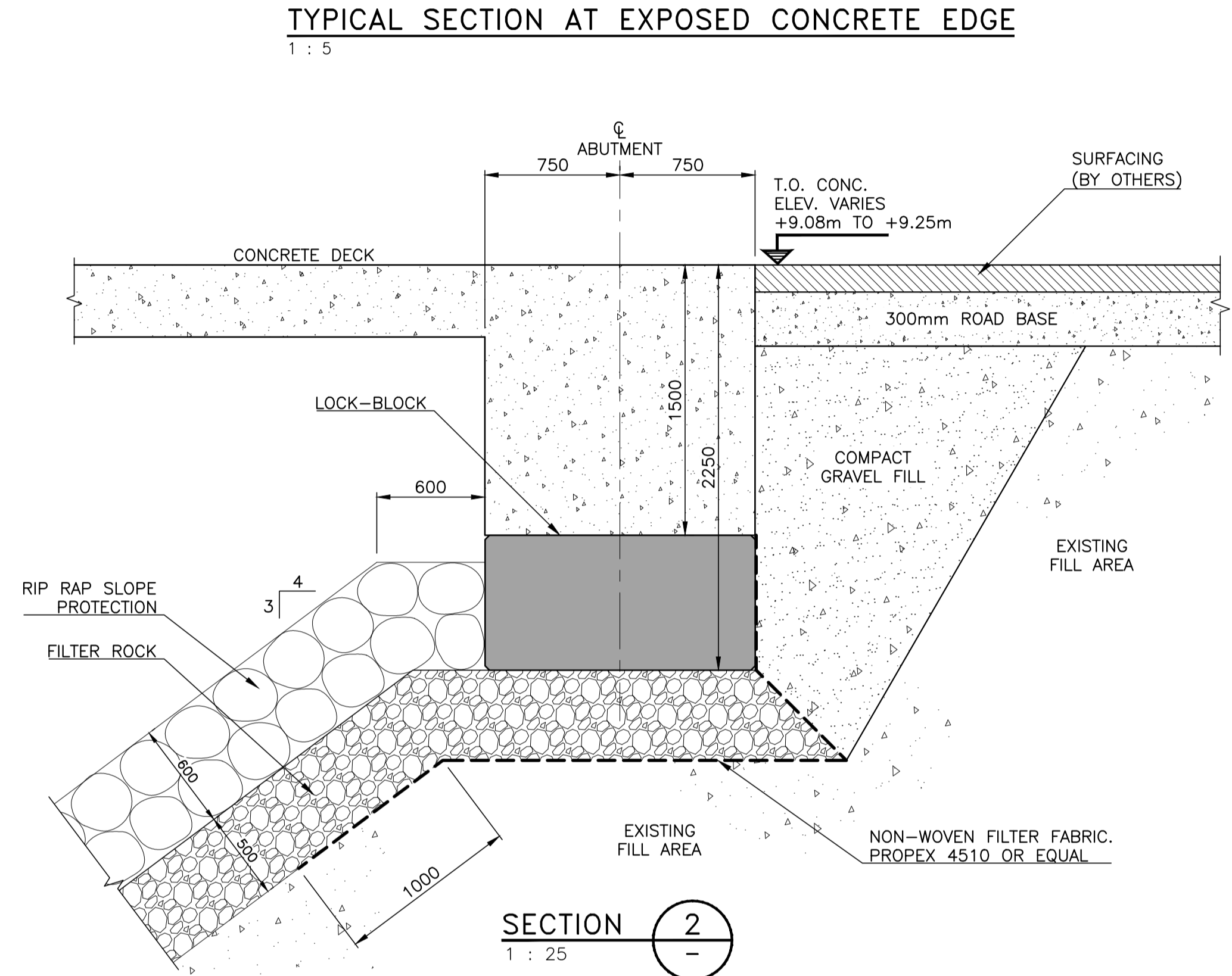
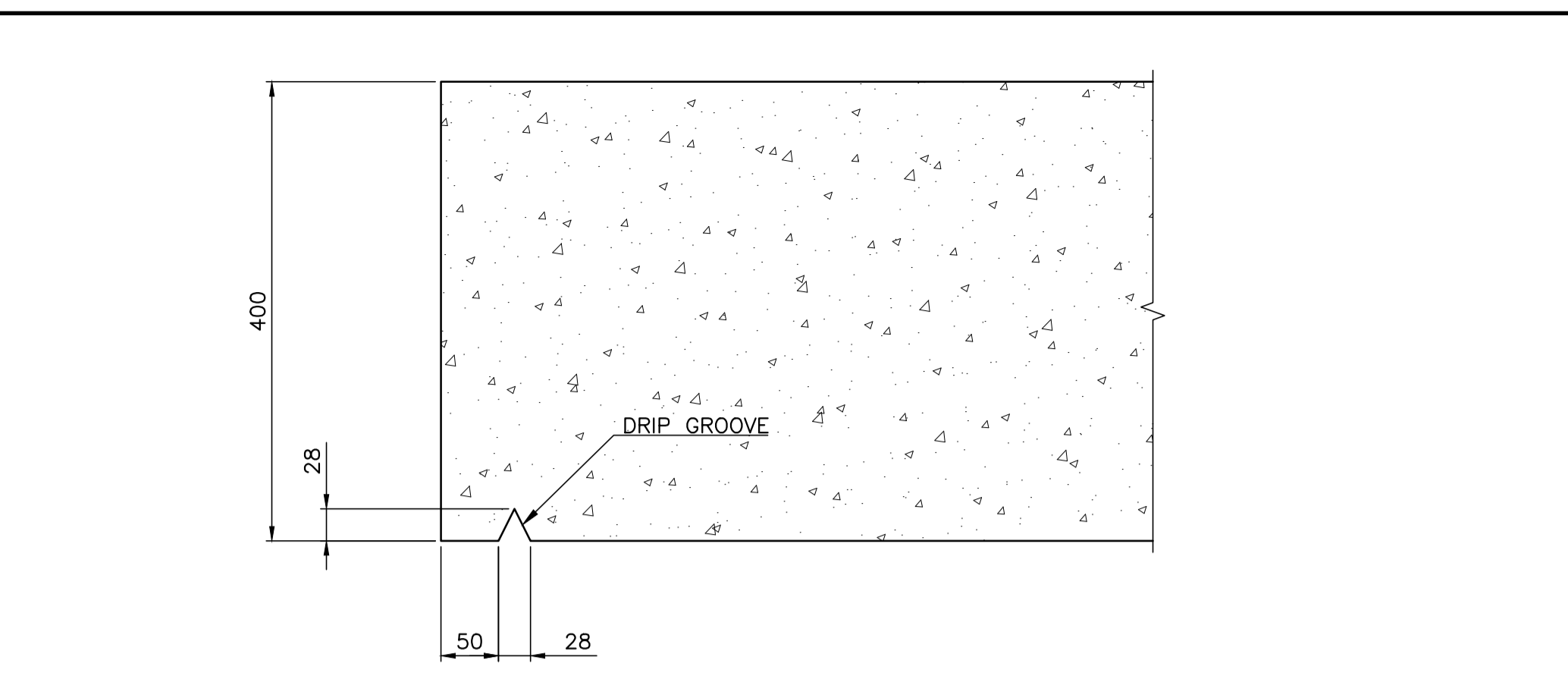
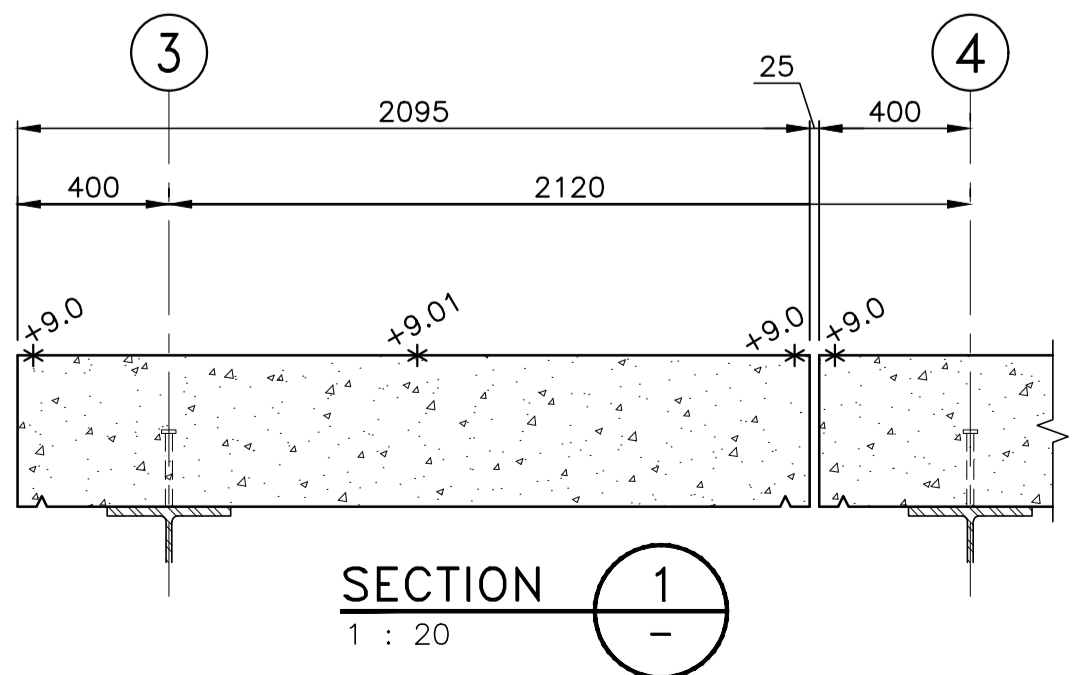
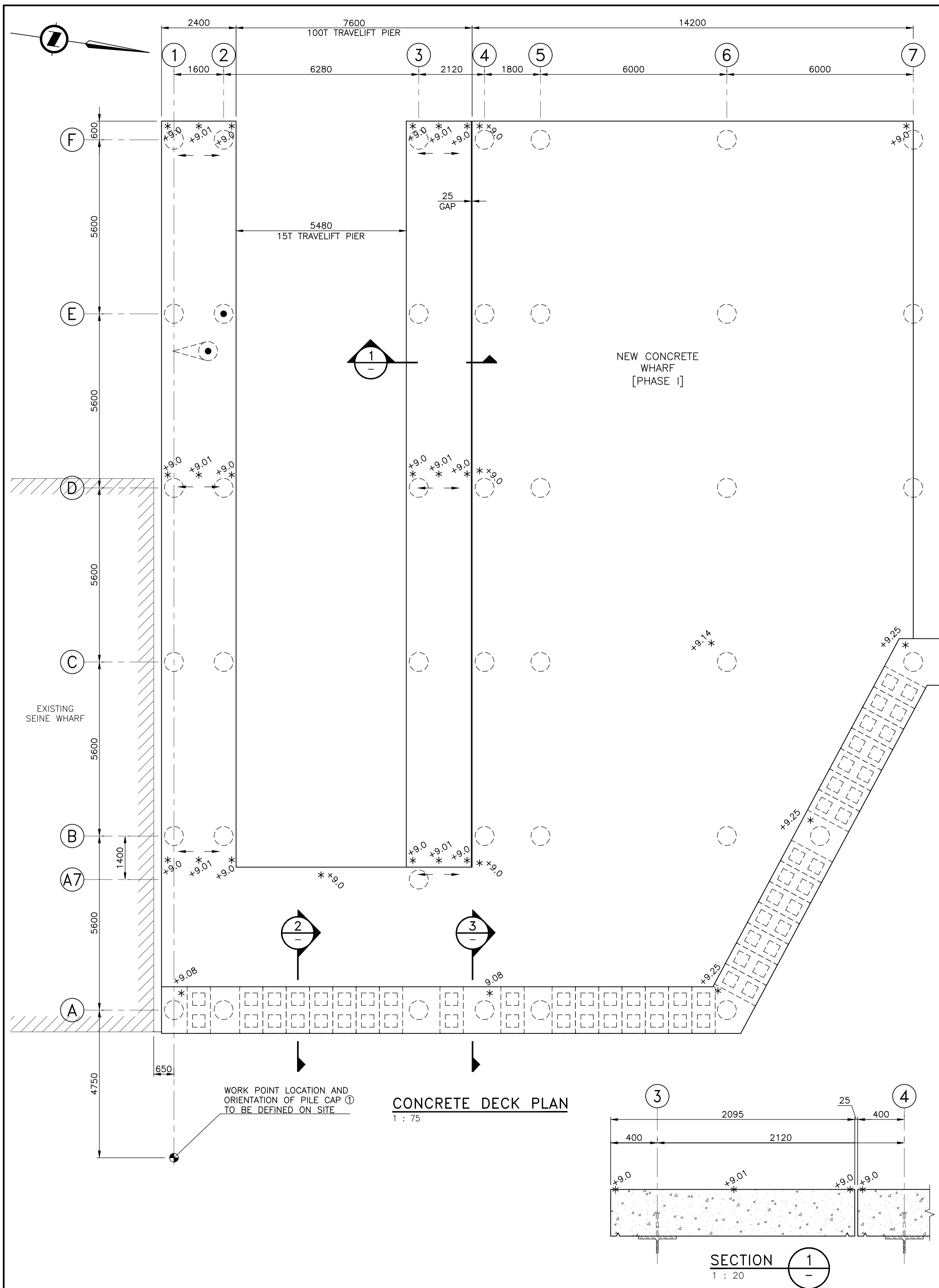
**SECTION 2**  
1 : 25



**SECTION 3**  
1 : 10  
[TRAVELIFT PIER GALVANIZED CURB]

**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.





**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

**REAL PROPERTY SERVICES**  
Western Region  
**SERVICES IMMOBILIERS**  
Région de l'ouest

**VJA ENGINEERING**  
VILLHOLTH JENSEN & ASSOC. LTD.  
CONSULTING ENGINEERS  
VANCOUVER, B.C.

PROFESSIONAL  
A. E. PEDERSEN  
# 14009

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	16/10/31

Client/client  
**Fisheries & Oceans Canada**  
**Small Craft Harbours Branch**  
**Pacific Division**  
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Vancouver, Canada, V6C 3S4

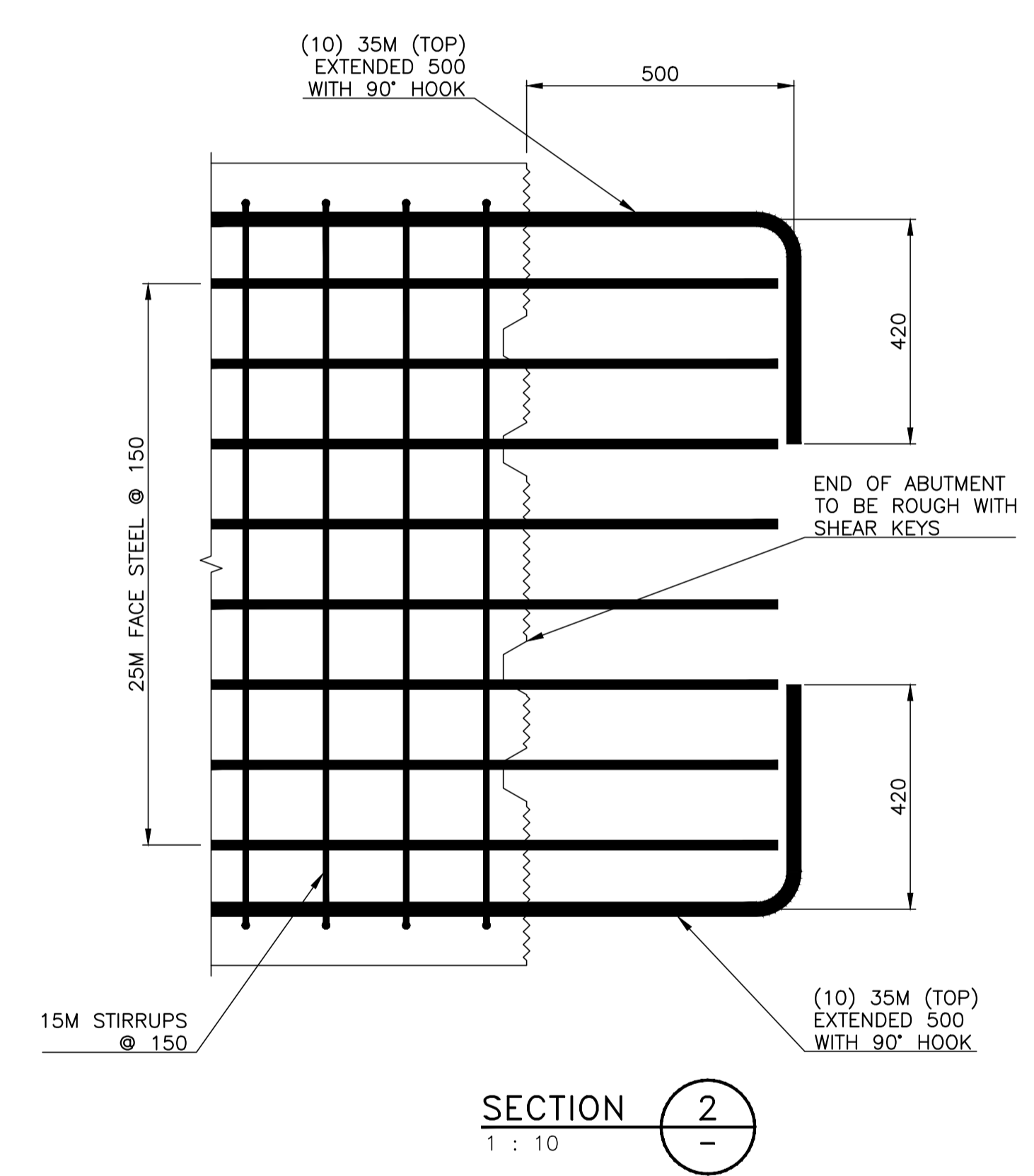
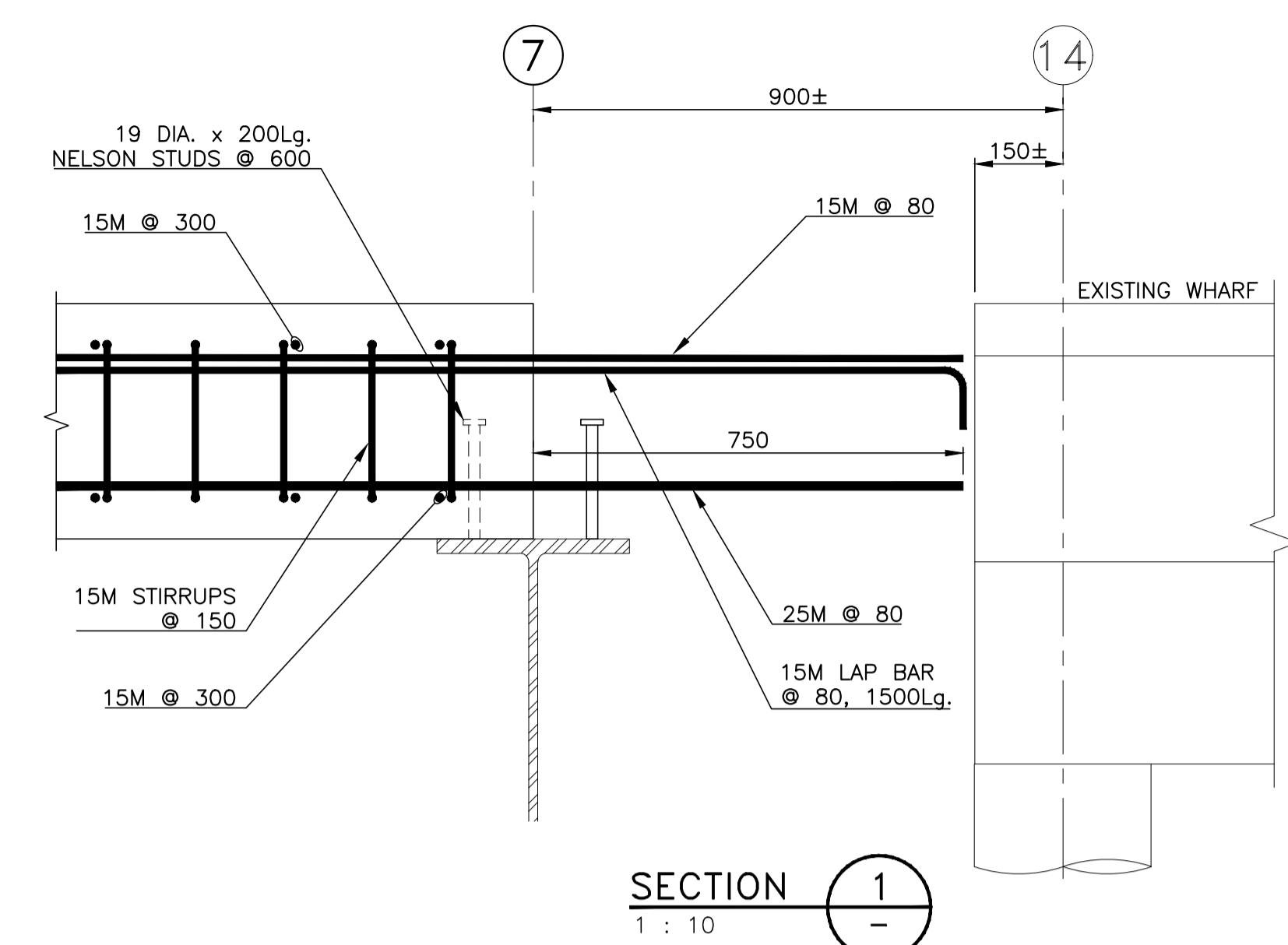
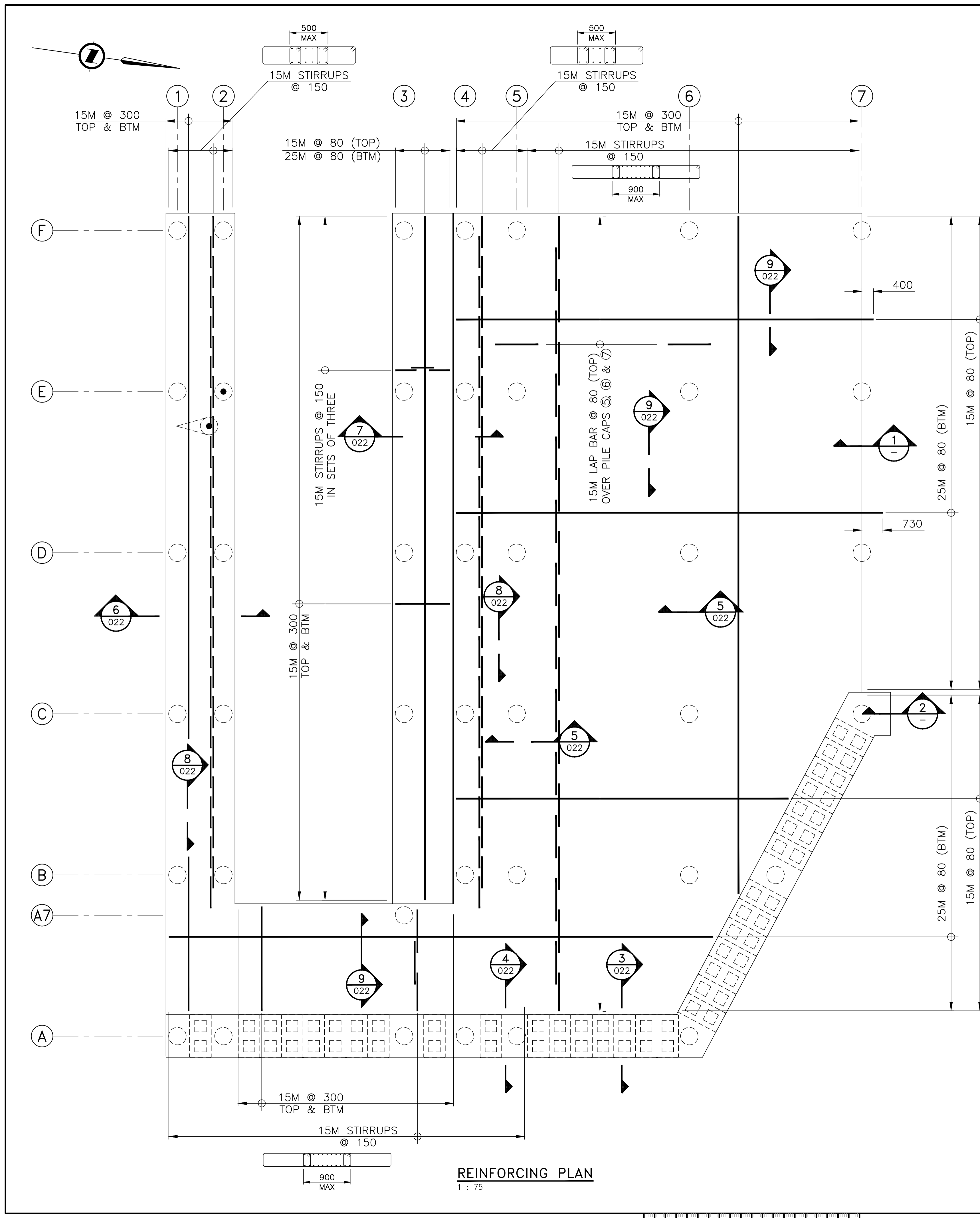
Project title/Titre du projet  
**PORT EDWARD**  
**WHARF RECONSTRUCTION**

Approved by/Approuvé par  
A.P.  
Designed by/Concept par  
A.P.  
Drawn by/Dessiné par  
PDM  
PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

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VJA  
Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I**  
**CONCRETE DECK**  
**PLAN, SECTIONS AND DETAILS**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	020 OF	0



**NOTES:**  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada  
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 Western Region  
**SERVICES IMMOBILIERS**  
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**Pacific Division**  
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 Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**PORT EDWARD**  
**WHARF**  
**RECONSTRUCTION**

Approved by/Approuvé par  
 A.P.  
 Designed by/Concept par  
 A.P.  
 Drawn by/Dessiné par  
 PDM  
 PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'Ingénierie, TPSCG  
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 VJA

Drawing title/Titre du dessin  
**CONCRETE WHARF PHASE I**  
**CONCRETE ABUTMENT PLAN**  
**SECTIONS AND DETAILS**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	021 OF	0



Revision/	Description/Description	Date/Date
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200 - 401 Burrard Street  
Vancouver, Canada, V6C 3S4

Project title/Titre du projet  
**PORT EDWARD**

**WHARF RECONSTRUCTION**

Approved by/Approuvé par  
A.P.

Designed by/Concept par  
A.P.

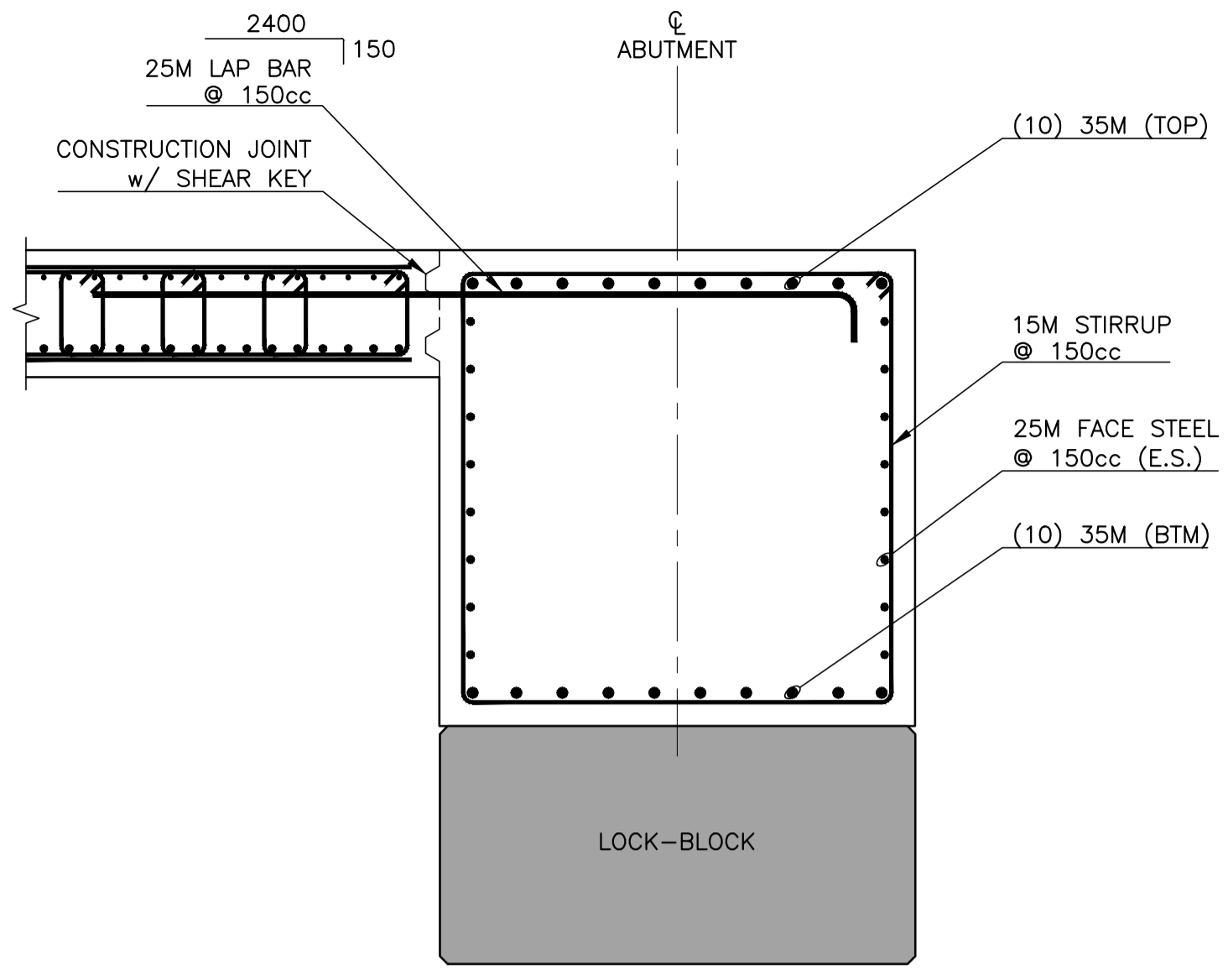
Drawn by/Dessiné par  
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PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client  
VJA

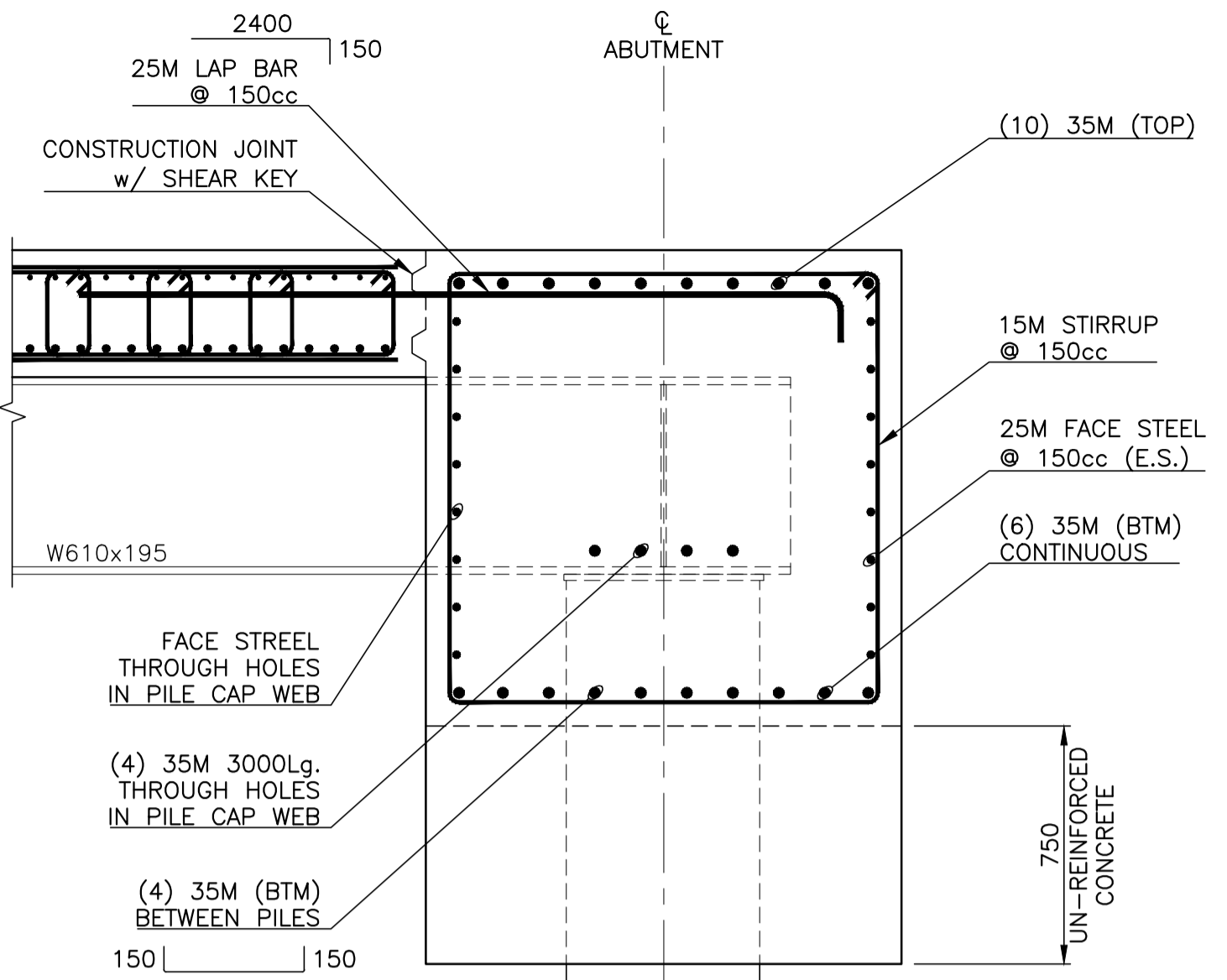
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**CONCRETE WHARF PHASE I  
REINFORCING PLAN  
SECTIONS AND DETAILS**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
216124	022 OF	0



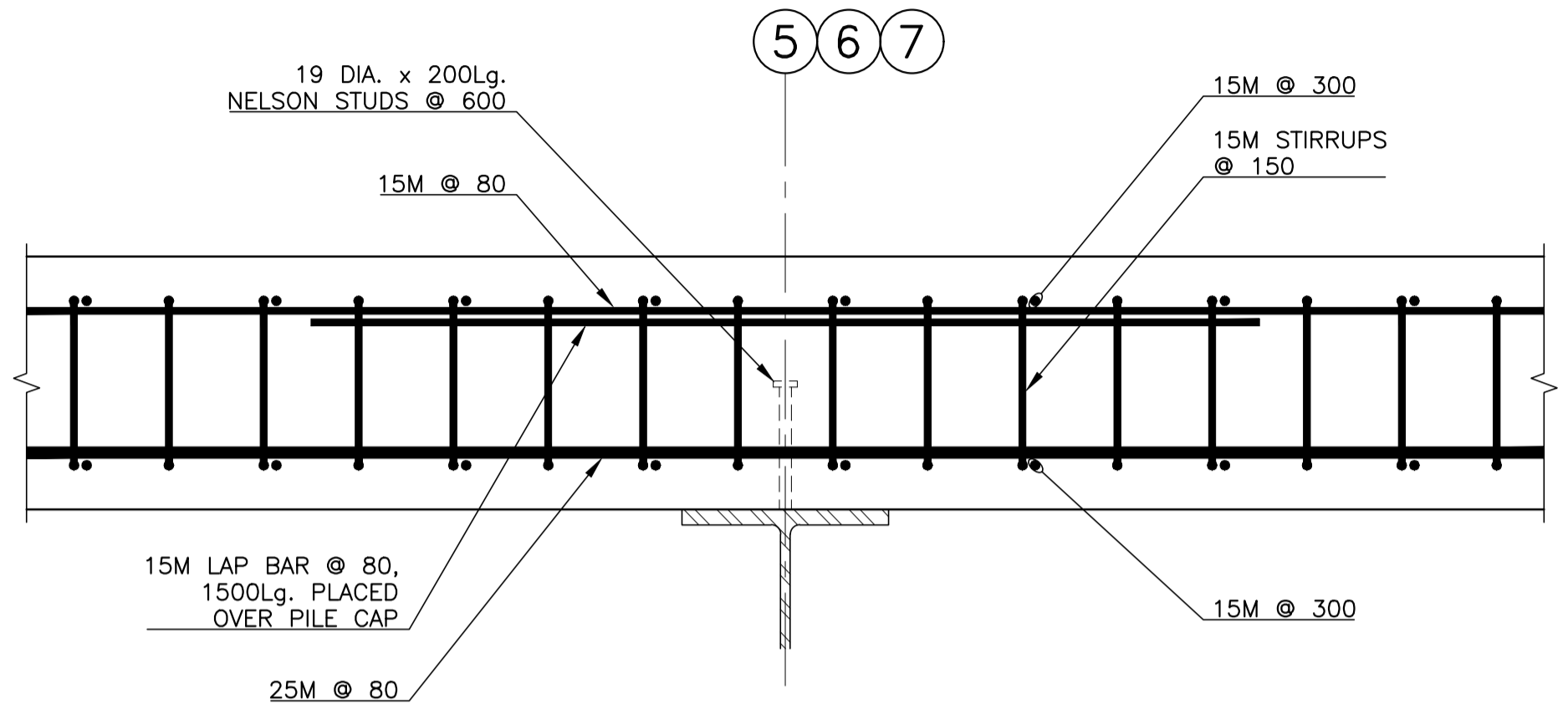
SECTION 3  
1 : 20

[ABUTMENT SECTION BETWEEN PILE LOCATIONS]



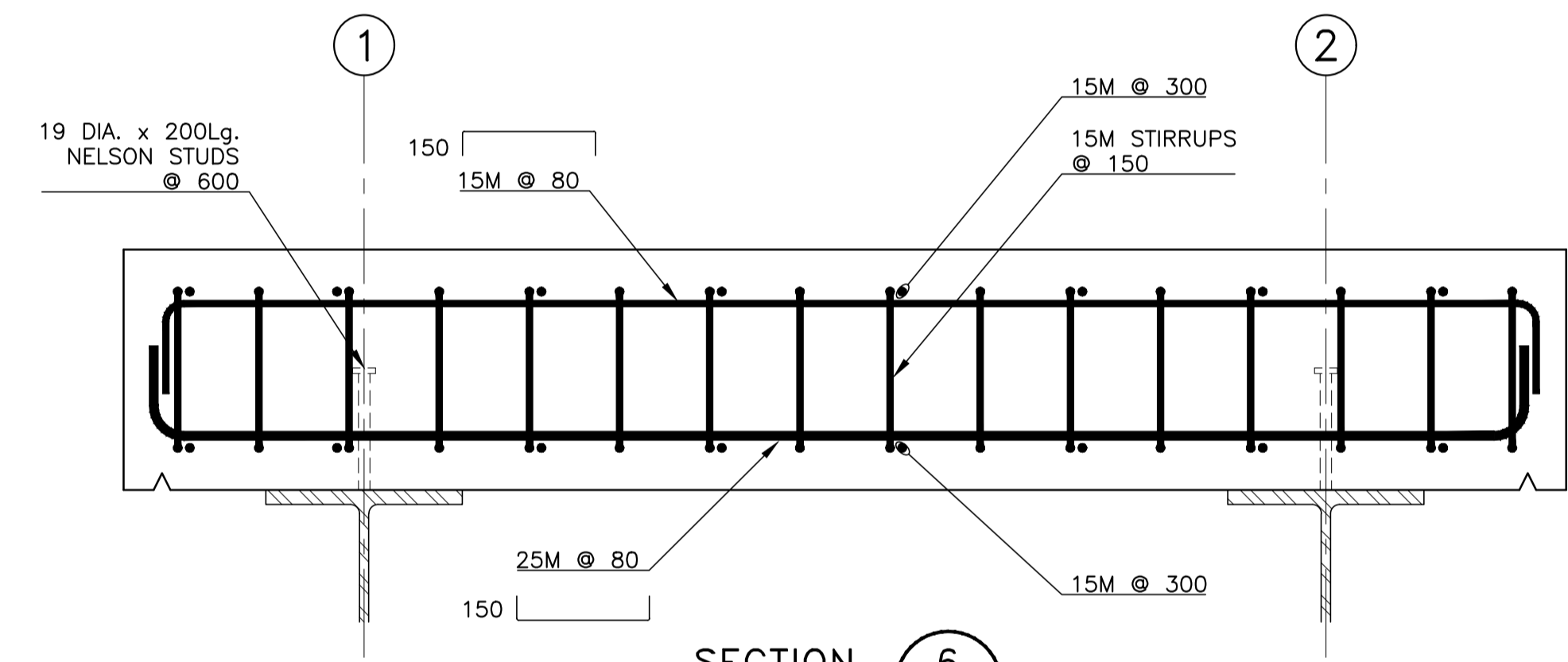
SECTION 4  
1 : 20

[ABUTMENT SECTION AT PILE LOCATIONS]



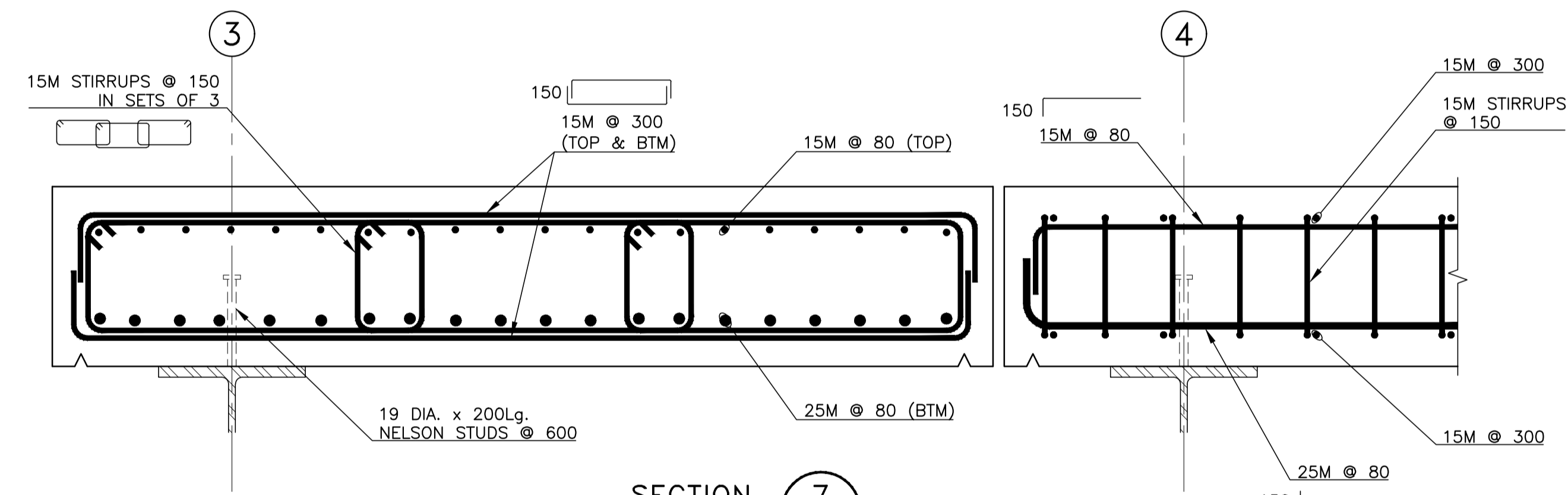
SECTION 5  
1 : 20

[TYPICAL REINFORCING AT PILE CAPS 5 & 6]



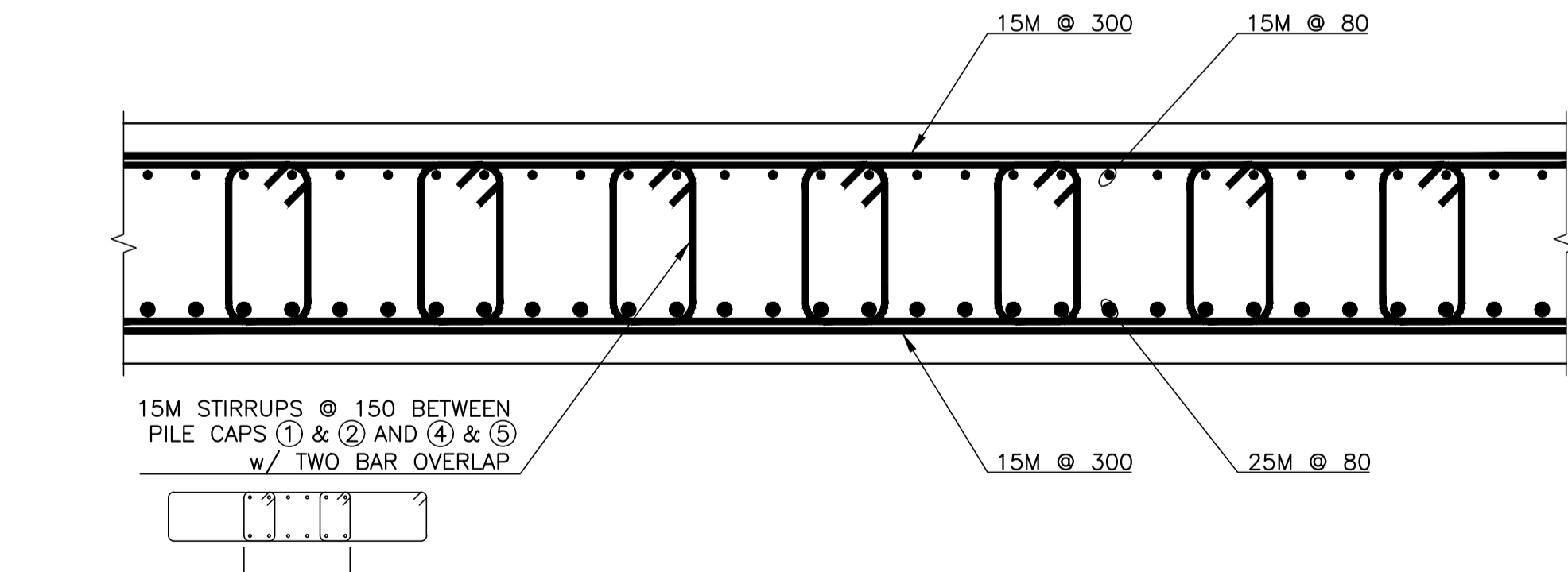
SECTION 6  
1 : 10

[TYPICAL REINFORCING AT PILE CAPS 1 & 2]



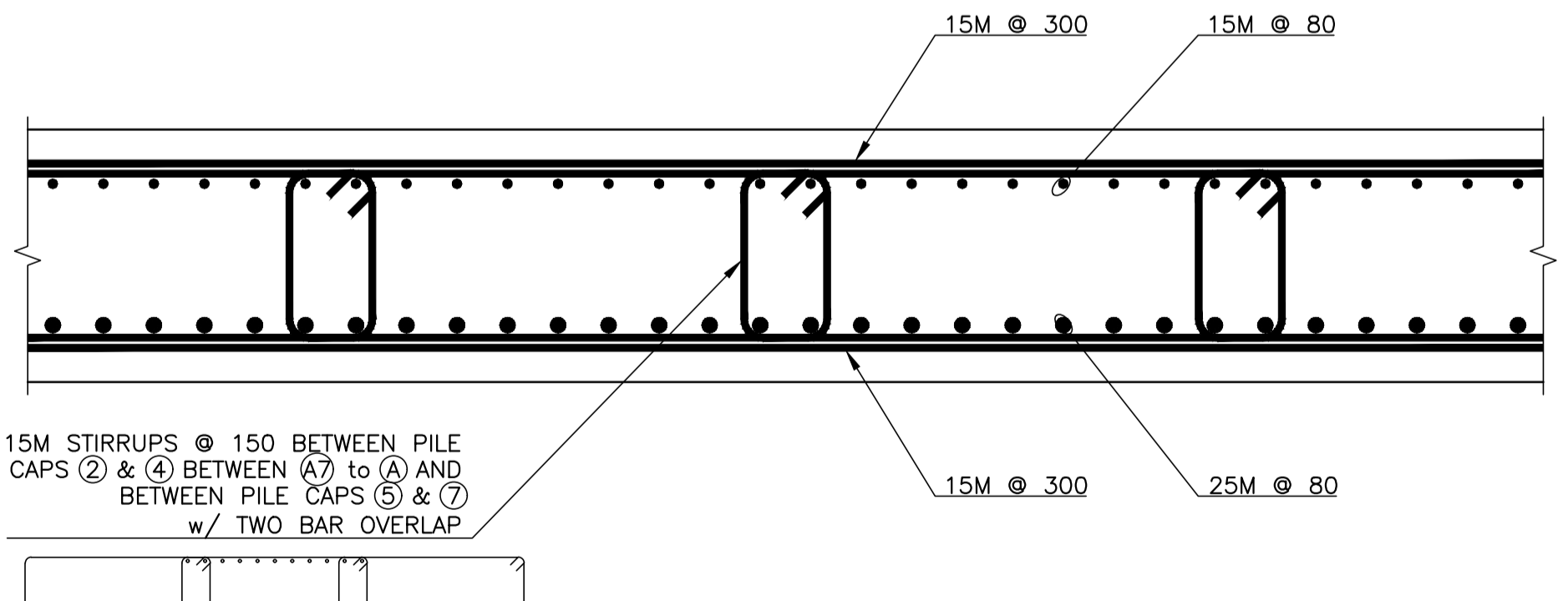
SECTION 7  
1 : 10

[TYPICAL REINFORCING FROM A7 to C]



SECTION 8  
1 : 20

[TYPICAL EAST/WEST REINFORCING EXCEPT BETWEEN PILE CAP 3 & 4 BETWEEN GRID A7 to F]



SECTION 9  
1 : 20

[TYPICAL EAST/WEST REINFORCING EXCEPT BETWEEN PILE CAP 3 & 4 BETWEEN GRID A7 to F]

NOTES:  
1. FOR GENERAL NOTES, REFER TO DRAWING -002.