



Public Works and
Government Services
Canada

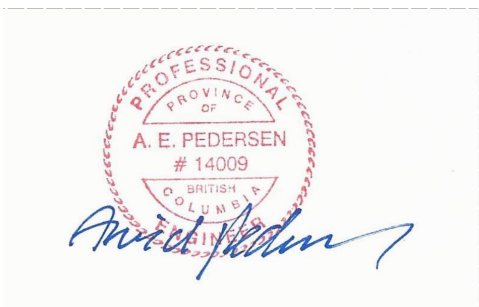
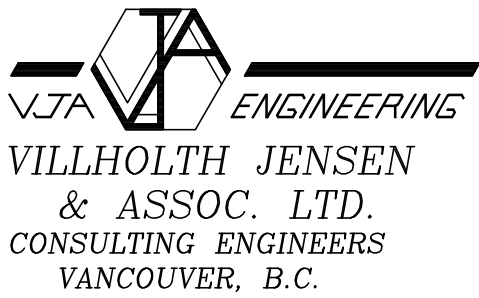
Travaux publics et
Services gouvernementaux
Canada

FISHERIES AND OCEANS CANADA
REAL PROPERTY
TECHNICAL SUPPORT DIVISION

40m LONG VEHICLE RAMP

ISSUED FOR TENDER

DRAWING LIST						
DRAWING NO.	DRAWING TITLE	REVISION				
		1	2	3	4	5
220103-001	GENERAL ARRANGEMENT					
220103-002	ELEVATIONS IN HIGH / LOW POSITION					
220103-010	RAMP PLAN, SECTIONS AND DETAILS					
220103-011	RAMP SECTIONS AND DETAILS – SHEET 1 of 2					
220103-012	RAMP SECTIONS AND DETAILS – SHEET 2 of 2					
220103-013	RAMP ACCESSORIES – SECTIONS AND DETAILS					
220103-014	ABUTMENT APRON – PLAN, SECTIONS AND DETAILS					
220103-015	FLOAT APRON – PLAN, SECTIONS AND DETAILS					
220103-016	FLOAT AND ABUTMENT APRONS – SECTIONS AND DETAILS					
220103-017	RAMP GRATING – GENERAL ARRANGEMENT					



0	ISSUED FOR TENDER	20/03/23

Revision/ Révision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client

Fisheries & Oceans Canada
Real Property
Technical Support Division

200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

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

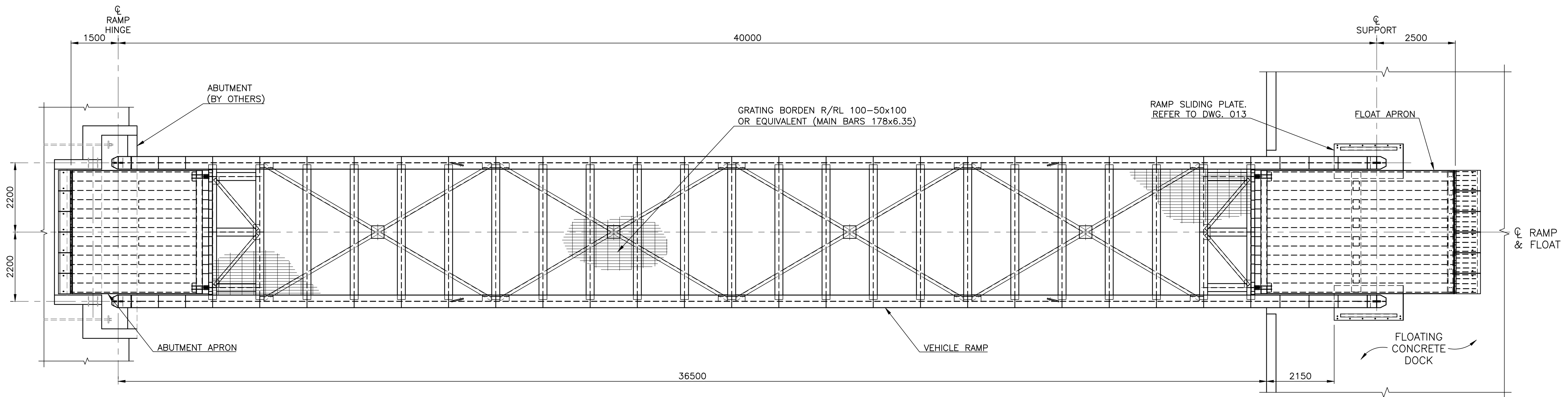
Client/client
VJA

Drawing title/Titre du dessin

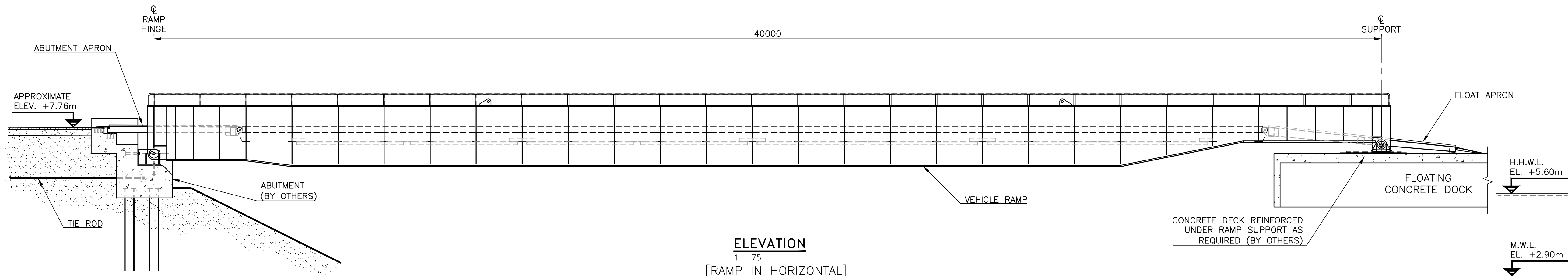
TITLE PAGE

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
220103	000 OF	0





PLAN
1 : 75



ELEVATION
1 : 75
[RAMP IN HORIZONTAL]

GENERAL NOTES:

GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTES OTHERWISE.
2. ALL ELEVATIONS ARE IN METRES AND ARE TO HYDROGRAPHIC DATUM.

STRUCTURAL AND MISCELLANEOUS STEEL

1. ALL ROLLED SECTIONS & MISCELLANEOUS PLATES TO BE GRADE 300W CONFORMING TO CAN CSA STD. G40.20/G40.21 UNLESS NOTED OTHERWISE.
2. ALL BOLTS TO CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE.
3. ALL WELDING TO CONFORM TO CAN CSA STD. W47, W48 & W59. THE MINIMUM WELD SIZE TO BE 6mm.
4. FOR CORROSION PROTECTION OF STRUCTURAL & MISCELLANEOUS STEEL, SEE SPECIFICATIONS.
5. HOLLOW STRUCTURAL SECTIONS TO BE GRADE 350W, CLASS C CONFORMING TO CSA STD. G40.20/G40.21-M UNLESS NOTED OTHERWISE.

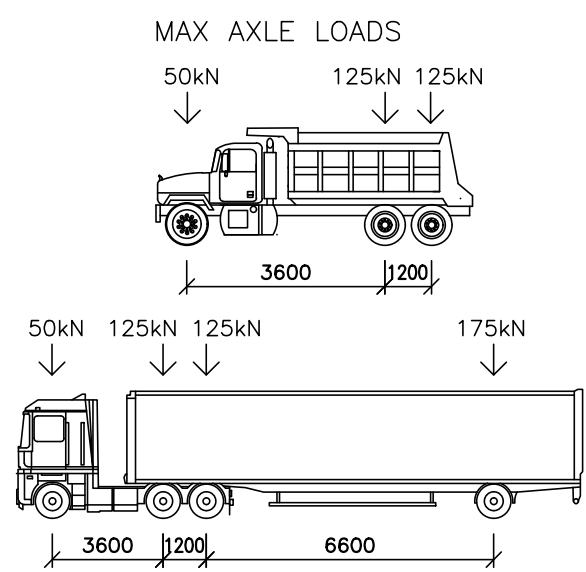
DESIGN CRITERIA:

1. LIVE LOAD ON RAMP:

- a) UNIFORMLY DISTRIBUTED LIVE LOAD = 5kPa
- b) HIGHWAY LIVE LOADING:

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

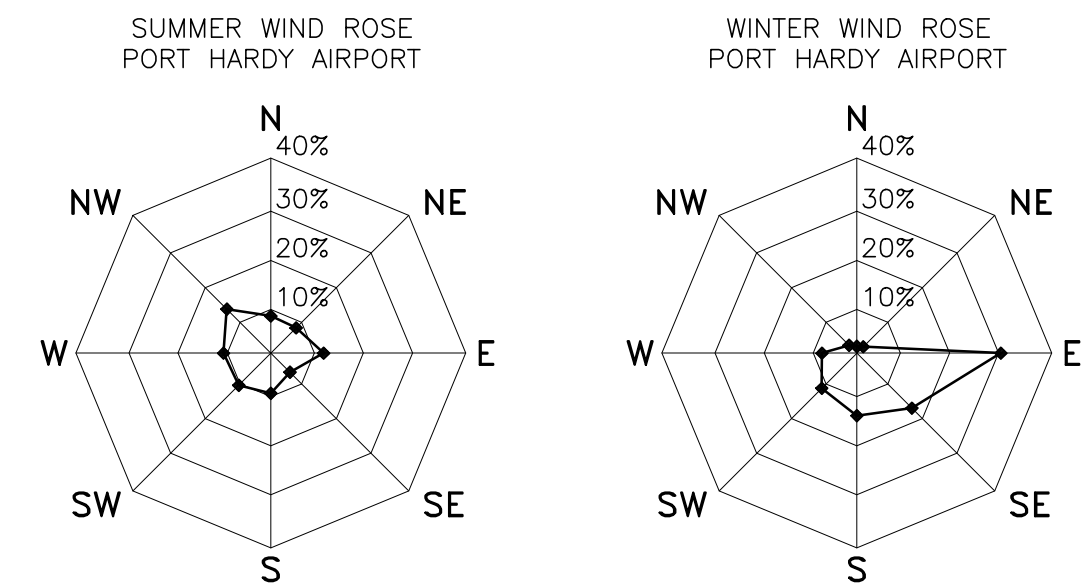
TRUCK CLASS CL2-625 CONFORMING TO CAN/CSA-S6-14
GVW = 48,420kg (106,700 lbs)



2. TIDES:

	HYDROGRAPHIC DATUM	CGVD 2013 DATUM
HIGHER HIGH WATER LEVEL (H.H.W.L.)	+5.6m	+2.84m
MEAN WATER LEVEL (M.W.L.)	+2.9m	+0.14m
LOWER LOW WATER LEVEL (L.L.W.L.)	0.0m	-2.76m

3. WIND: SPECIFIED WIND PRESSURE = 0.50kPa



4. SNOW LOAD:

- a) SPECIFIED GROUND SNOW LOAD: Ss = 0.9kPa
- a) SPECIFIED ASSOCIATED RAIN LOAD: Sr = 0.4kPa

5. SEISMIC

PGA = 0.320
PGV = 0.543
Sa (0.2) = 0.70, Sa (0.5) = 0.659, Sa (1.0) = 0.447
Sa (2.0) = 0.272, Sa (5.0) = 0.091, Sa (10.0) = 0.032

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	20/03/23

Client/client

Fisheries & Oceans Canada
Real Property
Technical Support Division
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

Approved by/Approuvé par
A.P.

Designed by/Concept par
A.P.

Drawn by/Dessiné par
PDM

PWGSC Project Manager/Administrateur de Projets TFSGC

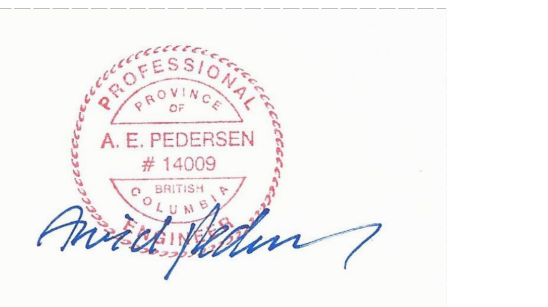
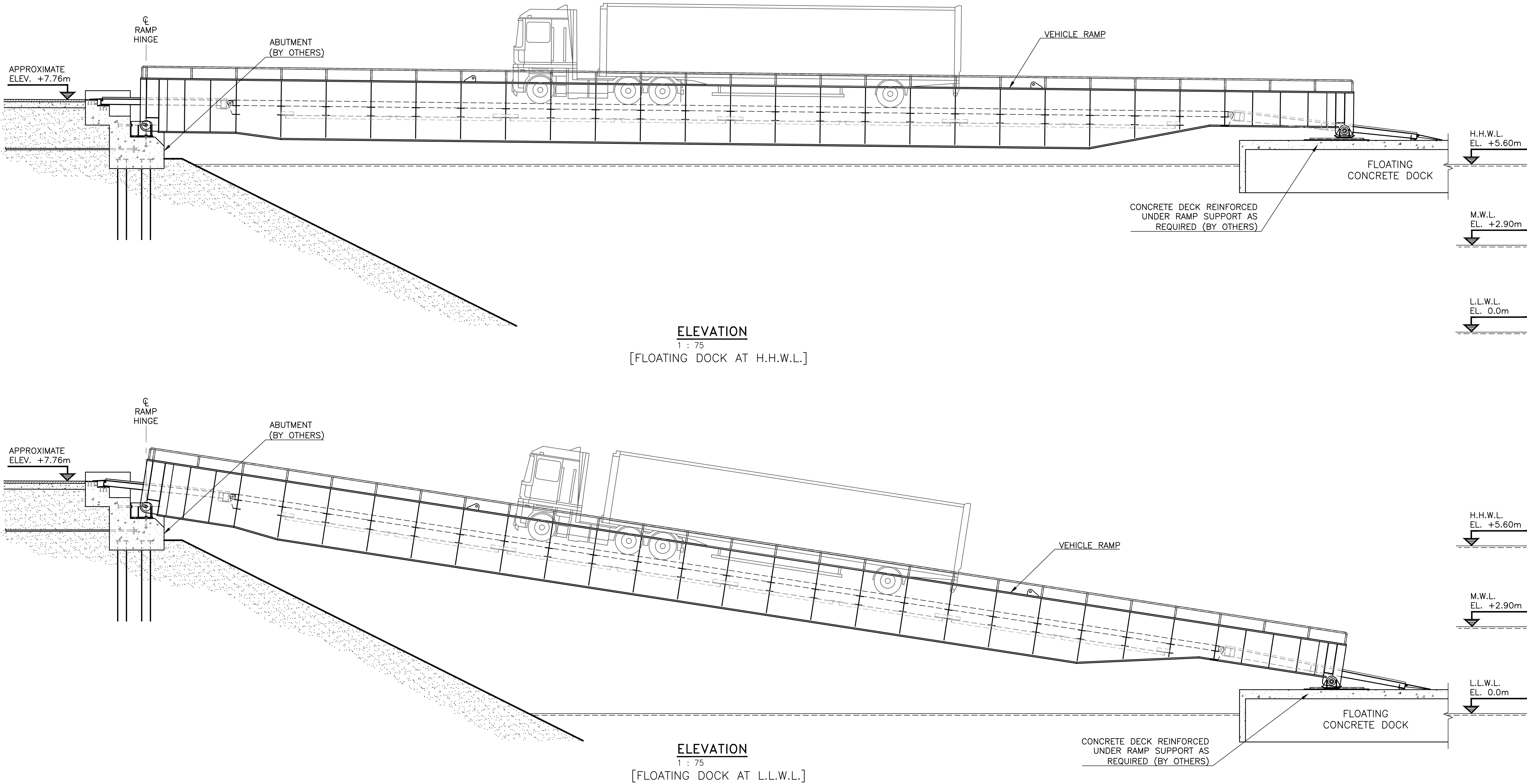
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TFSGC

Client/client
VJA

Drawing title/Titre du dessin

GENERAL ARRANGEMENT

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
220103	001 OF	0



0	ISSUED FOR TENDER	20/03/23
Revision/ Révision	Description/Description	Date/Date

Client/client

Fisheries & Oceans Canada
Real Property
Technical Support Division
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

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

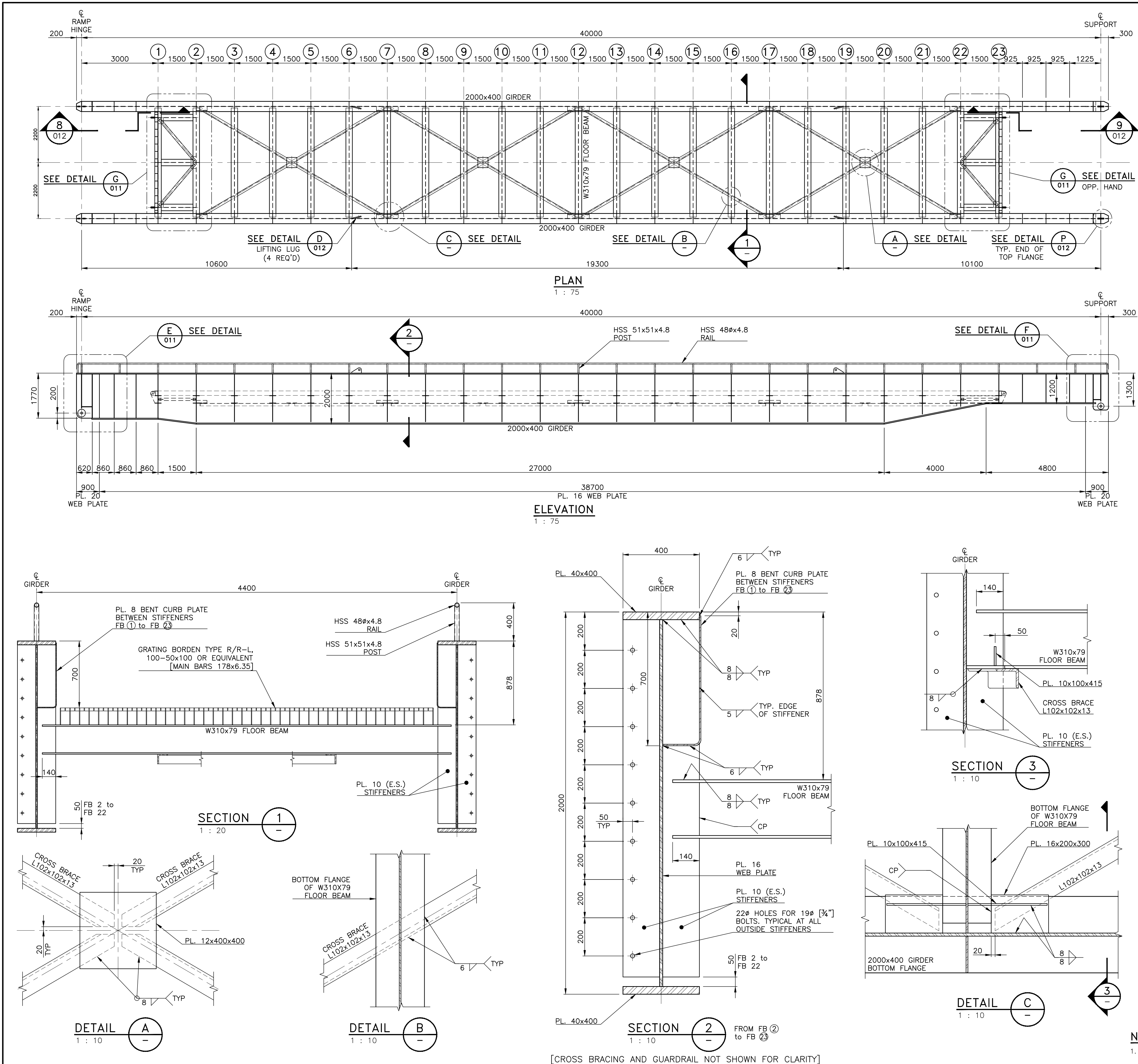
Client/client
VJA

Drawing title/Titre du dessin
ELEVATIONS
IN HIGH / LOW POSITION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
220103	002 OF	0

NOTES:

1. REFER TO DRAWING -001 FOR GENERAL NOTES.



0	ISSUED FOR TENDER	20/03/23
Revision/Revision	Description/Description	Date/Date

Fisheries & Oceans Canada
Real Property
Technical Support Division
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

Approved by/Approuvé par
A.P.

Designed by/Concept par
A.P.

Drawn by/Dessiné par
PDM

PWSC Project Manager/Administrateur de Projets TFGC

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

Client/client
VJA

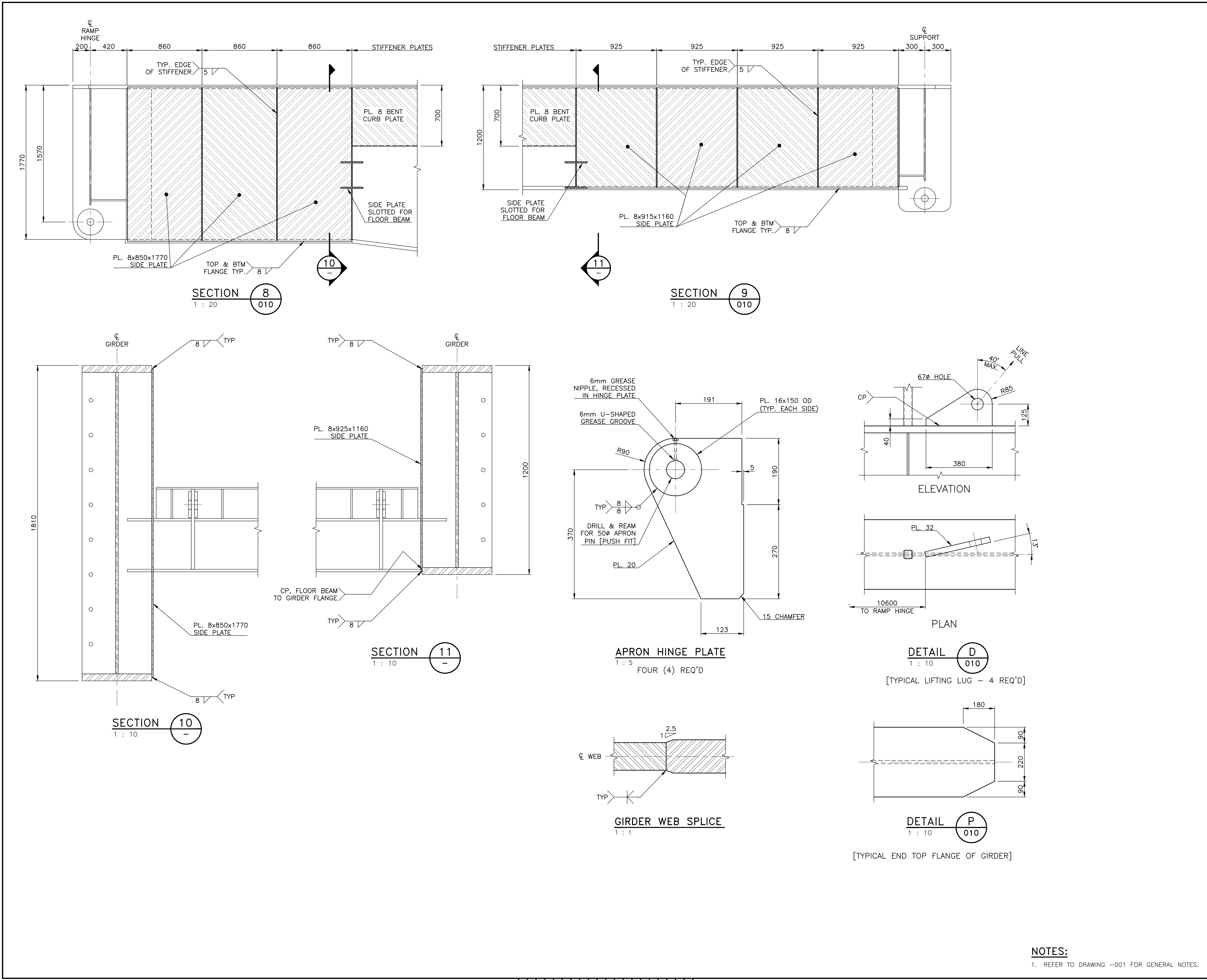
Drawing title/Titre du dessin


RAMP PLAN,
SECTIONS AND DETAILS

Project No./No. du projet
220103

Sheet/Feuille
010
OF

Revision no./
La Révision
no.
0







Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

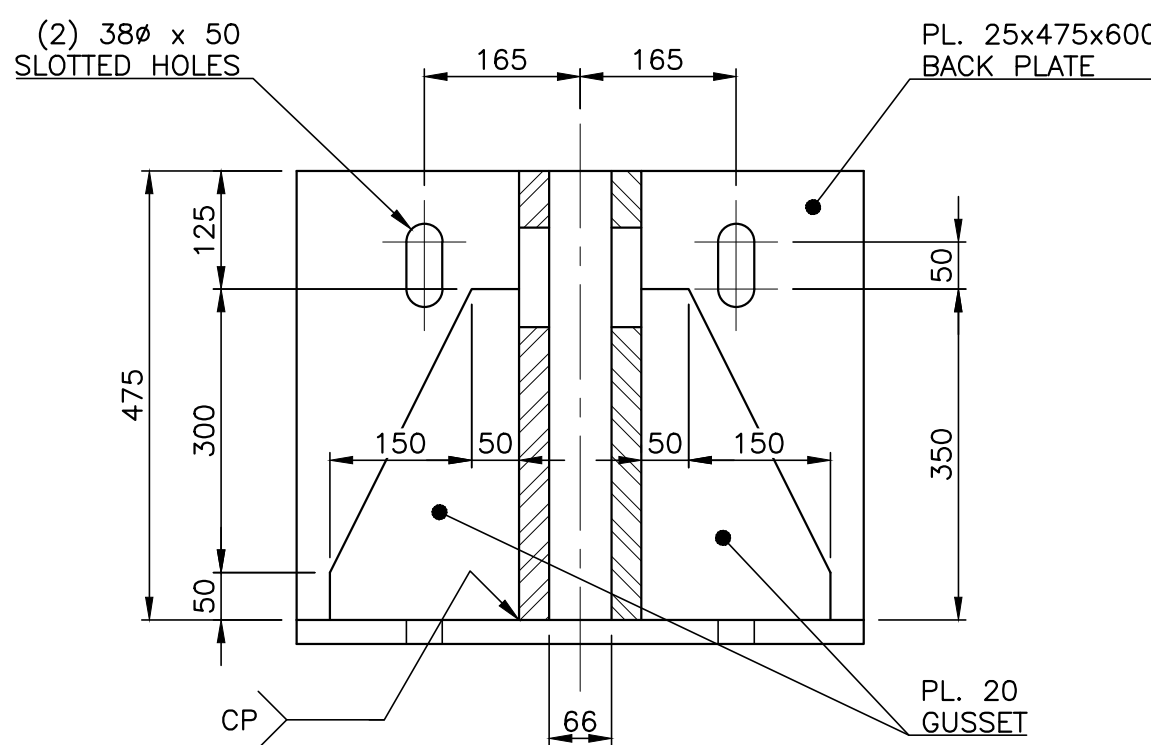
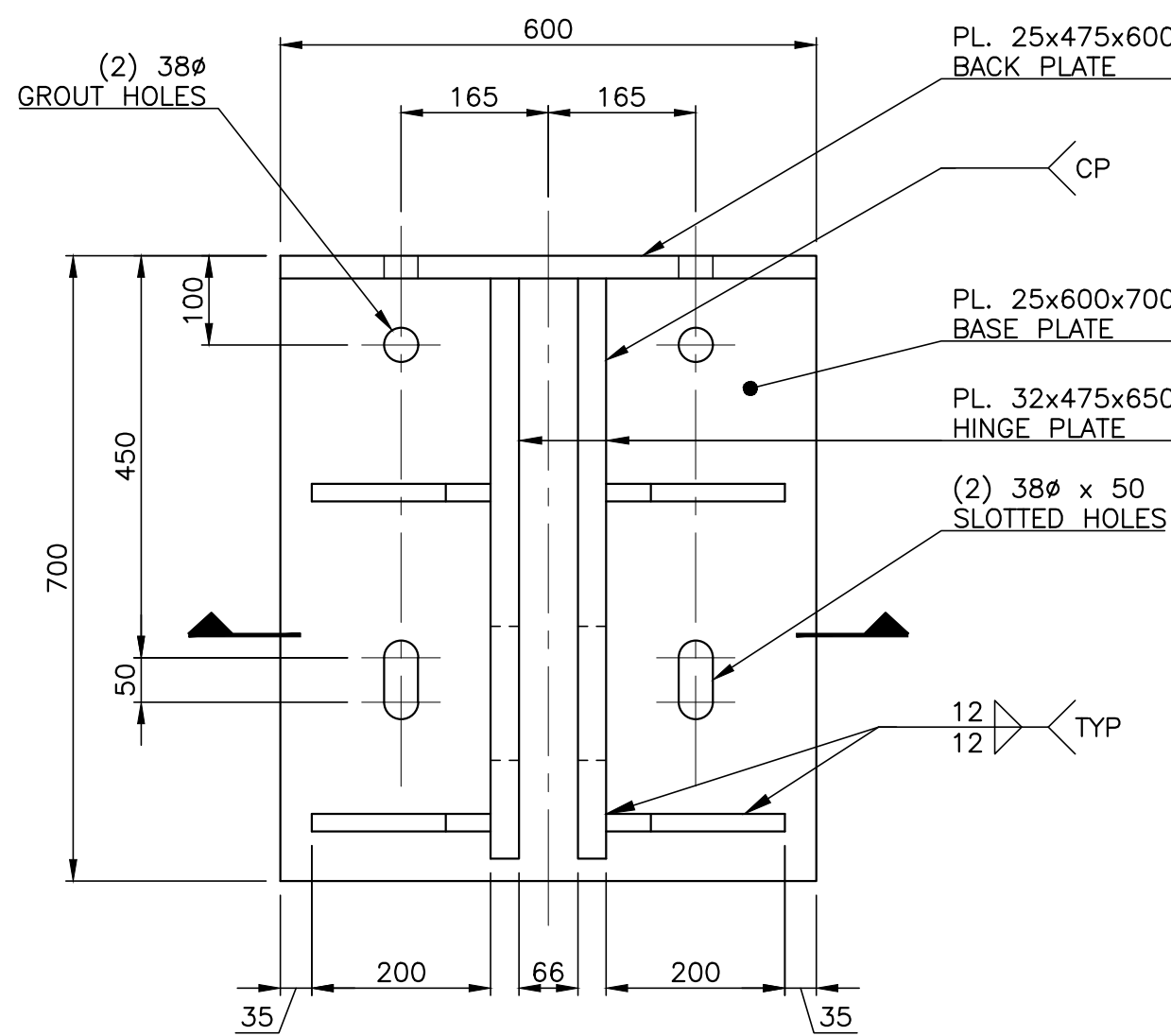
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest



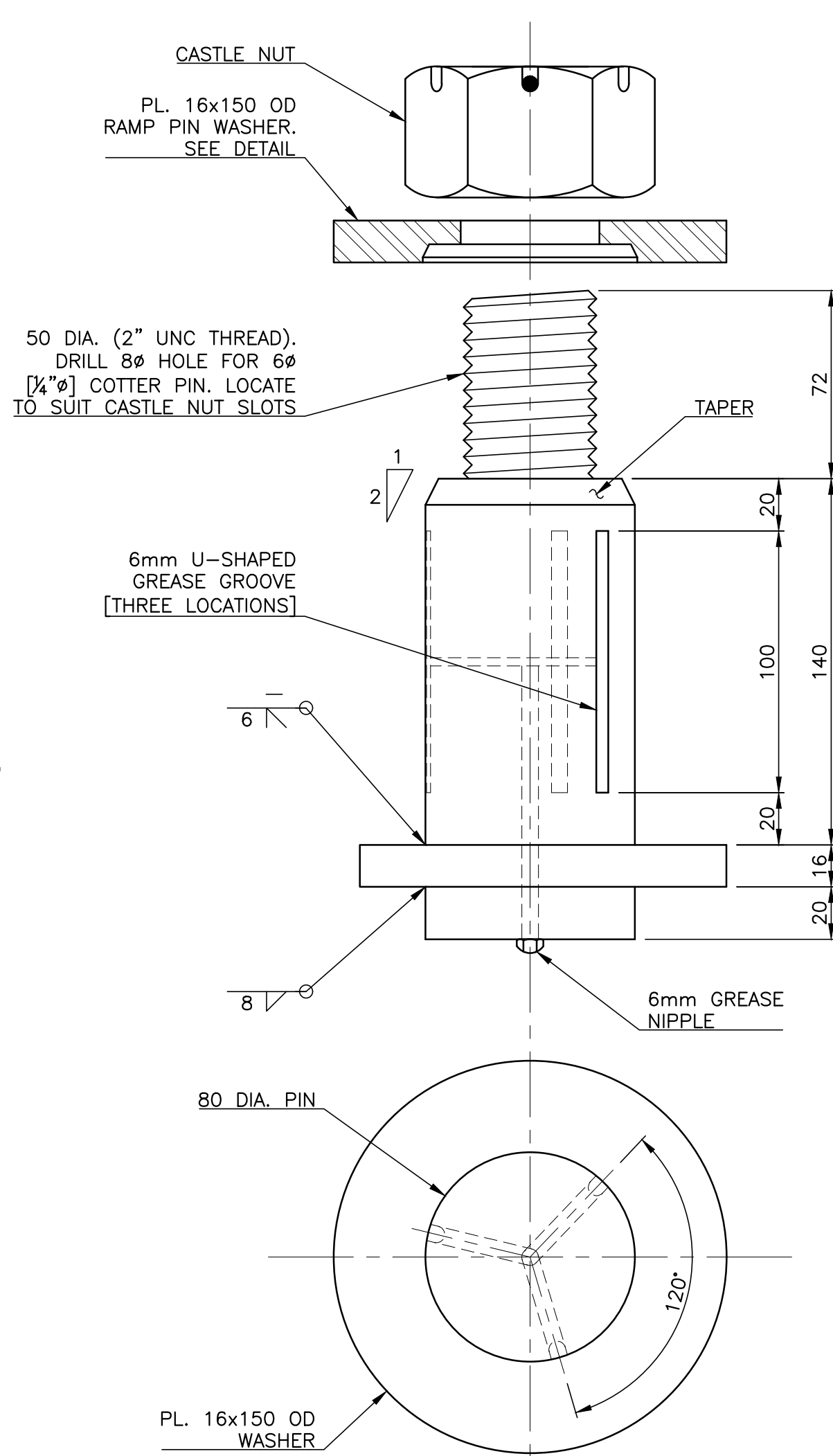
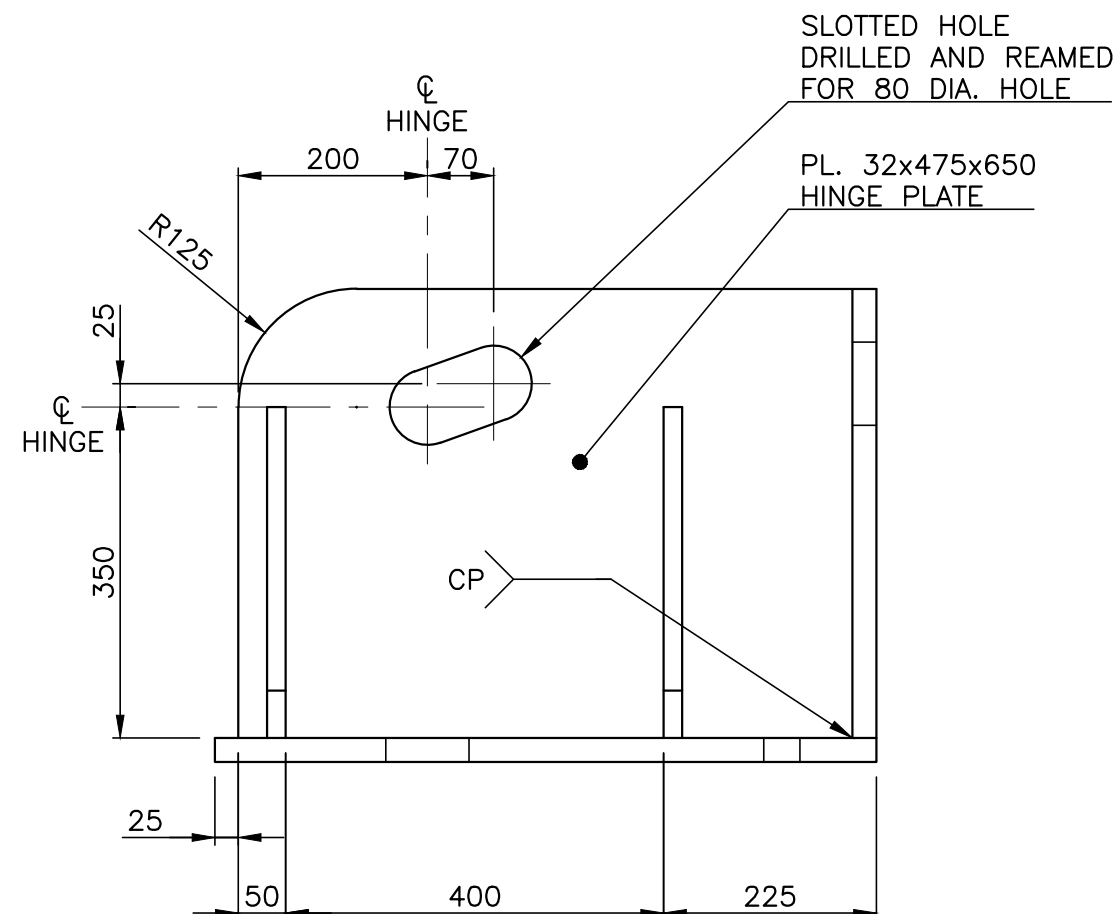
VILLHOLTH JENSEN
& ASSOC. LTD.
CONSULTING ENGINEERS
VANCOUVER, B.C.



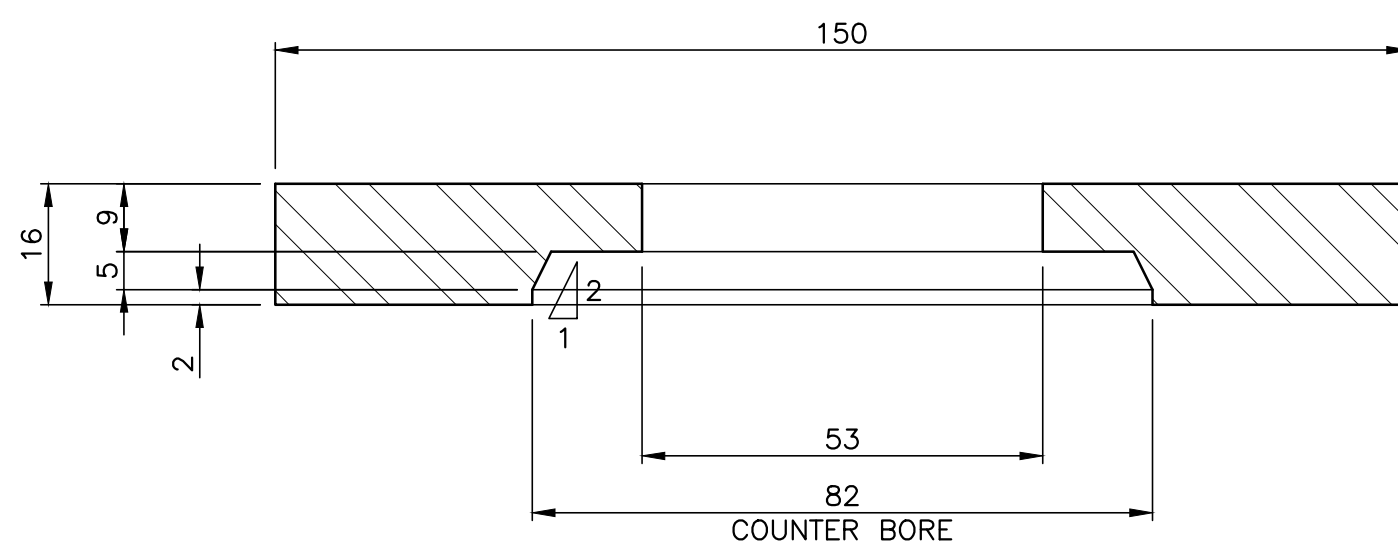
0	ISSUED FOR TENDER	20/03/23
Revision/	Description/Description	Date/Date
Client/client		
Fisheries & Oceans Canada Real Property Technical Support Division 200 - 401 Burrard Street Vancouver, Canada, V6C 3S4		
Project title/Titre du projet		
REAL PROPERTY 40m LONG VEHICLE RAMP		
Approved by/Approuvé 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		
Client/client VJA		
Drawing title/Titre du dessin RAMP SECTIONS AND DETAILS SHEET 2 of 2		
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
220103	012 OF	0



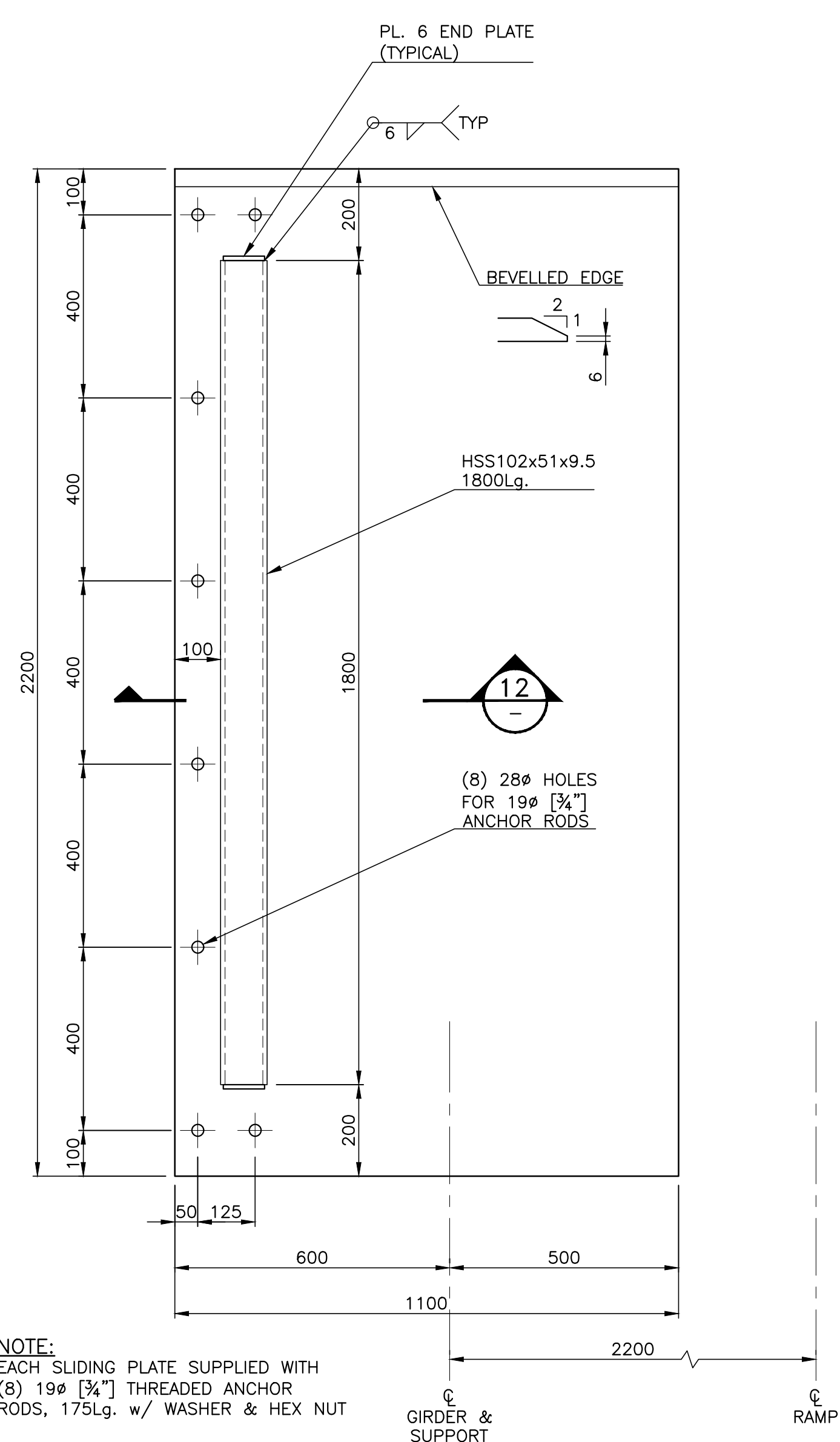
RAMP HINGE SEAT
1 : 8
TWO (2) REQ'D



80 DIA. RAMP PIN DETAIL
1 : 2
FOUR (4) REQ'D

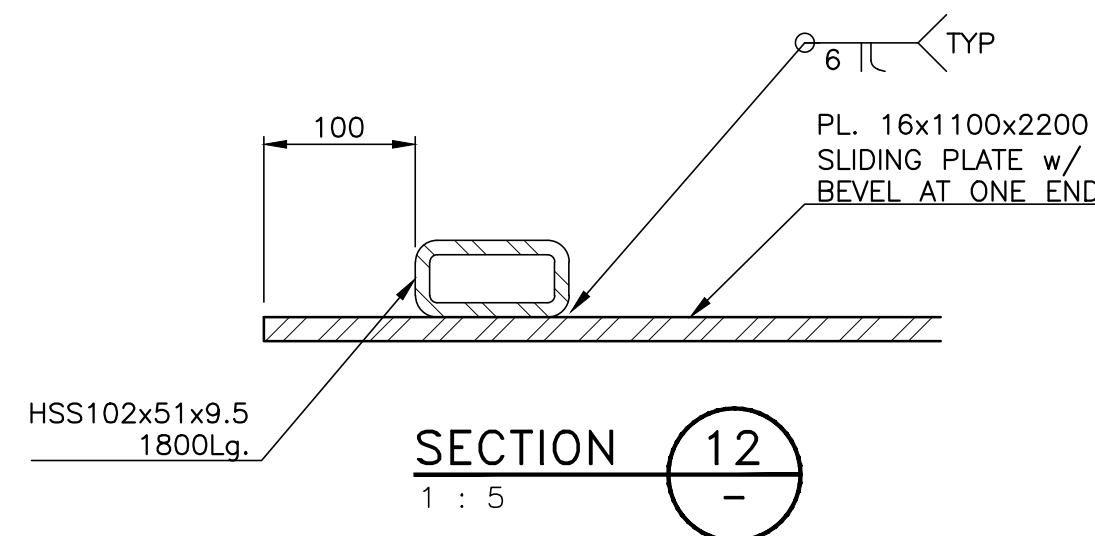


RAMP PIN WASHER
1 : 1



NOTE:
EACH SLIDING PLATE SUPPLIED WITH
(8) 19Ø [3/4"] THREADED ANCHOR
RODS, 175Lg. w/ WASHER & HEX NUT

RAMP SLIDING PLATE - PLAN
1 : 10
[LEFT SIDE SLIDING PLATE SHOWN
RIGHT SIDE OPPOSITE HAND]



NOTES:
1. REFER TO DRAWING -001 FOR GENERAL NOTES.

Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

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

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

0	ISSUED FOR TENDER	20/03/23
Revision/	Description/Description	Date/Date
Client/client		

Fisheries & Oceans Canada
Real Property
Technical Support Division
 200 - 401 Burrard Street
 Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

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
Client/client VJA
Drawing title/Titre du dessin RAMP ACCESSORIES SECTIONS AND DETAILS

Project No./No. du projet 220103	Sheet/Feuille 013 OF	Revision no./ La Révision no. 0
---	-----------------------------------	---

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	20/03/23

Fisheries & Oceans Canada
Real Property
Technical Support Division
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

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

Client/client

VJA

Drawing title/Titre du dessin

FLOAT APRON
PLAN, SECTIONS AND ETAILS

Project No./No. du
projet

220103

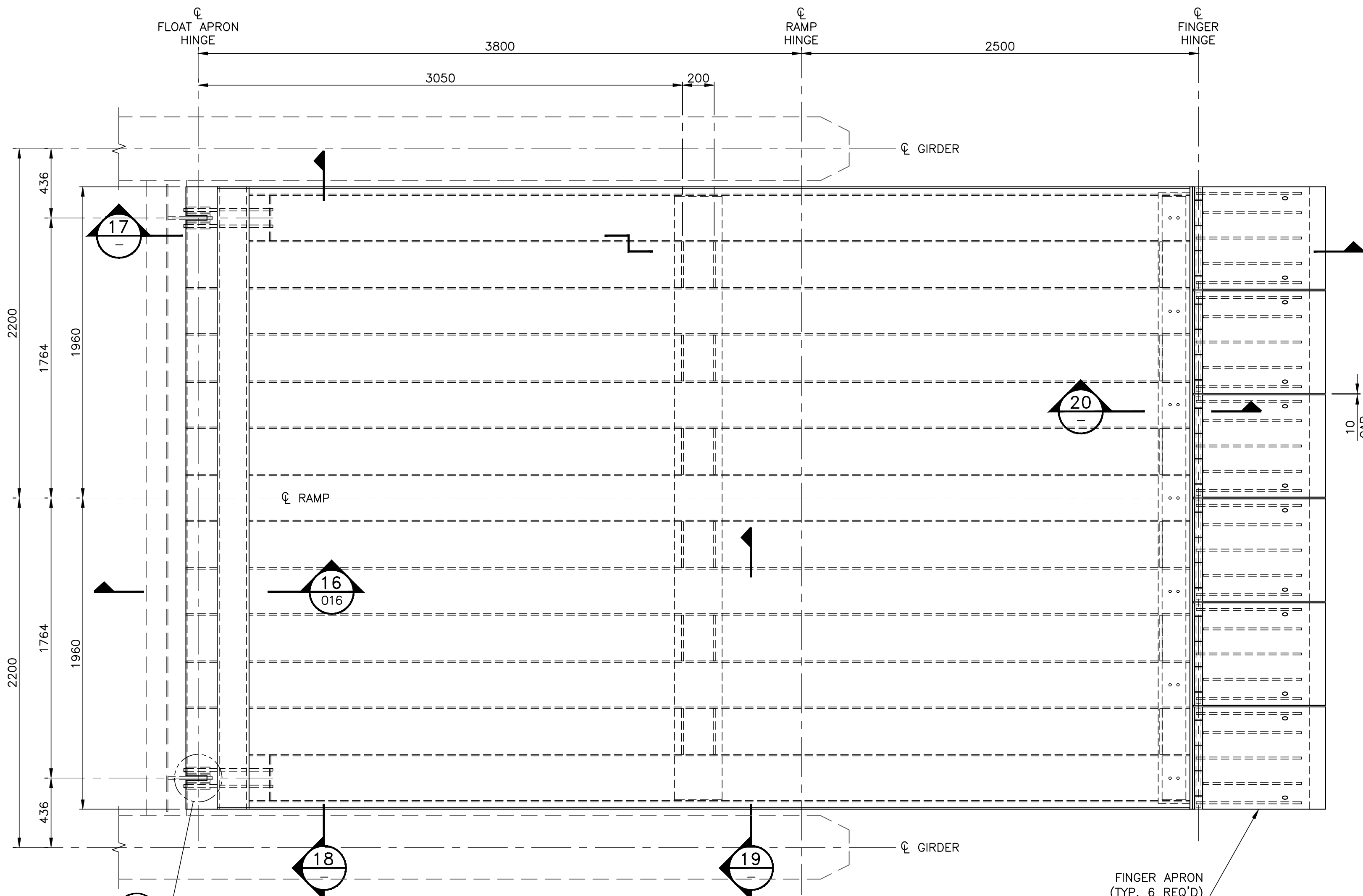
Sheet/Feuille

015

OF

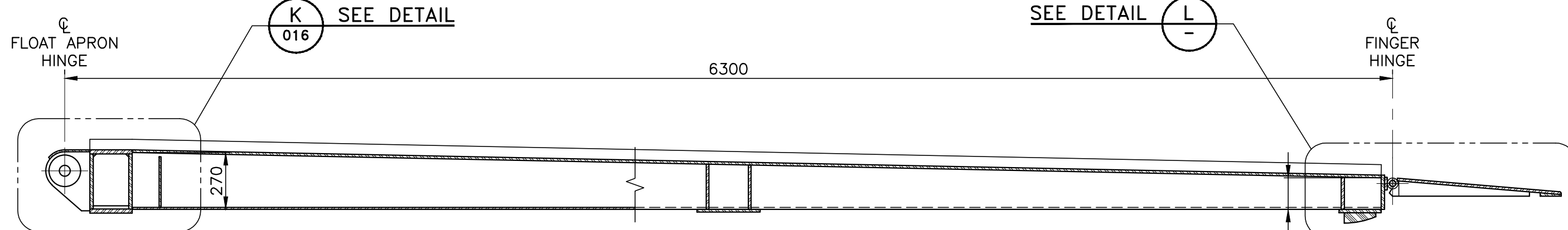
Revision no./
La Révision
no.

0



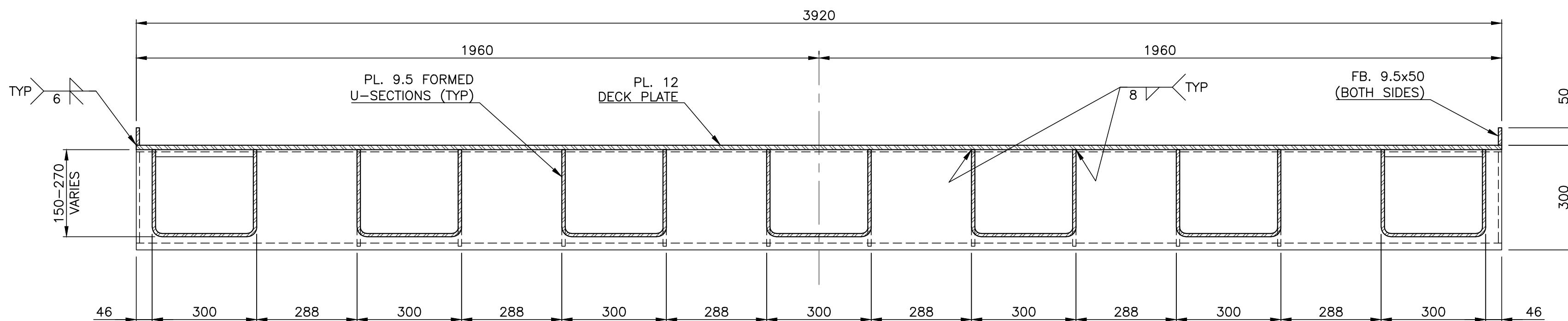
FLOAT APRON PLAN

1 : 20



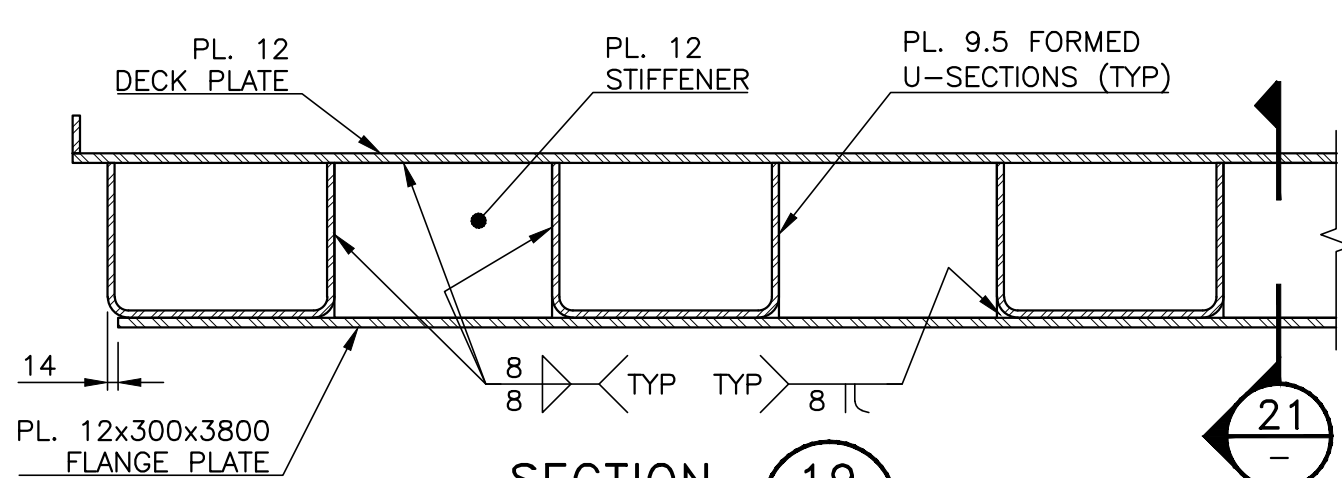
SECTION 17

1 : 20



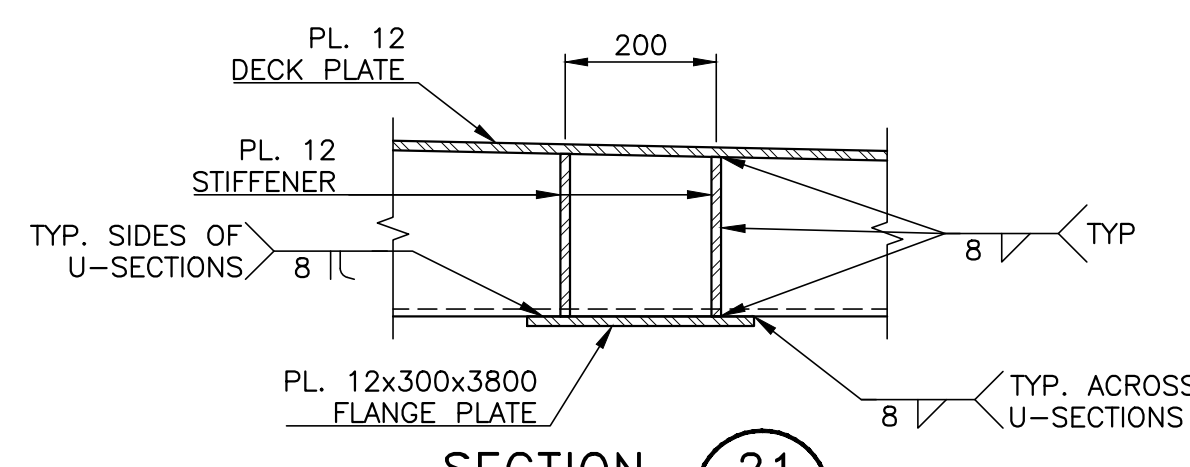
SECTION 18

1 : 10



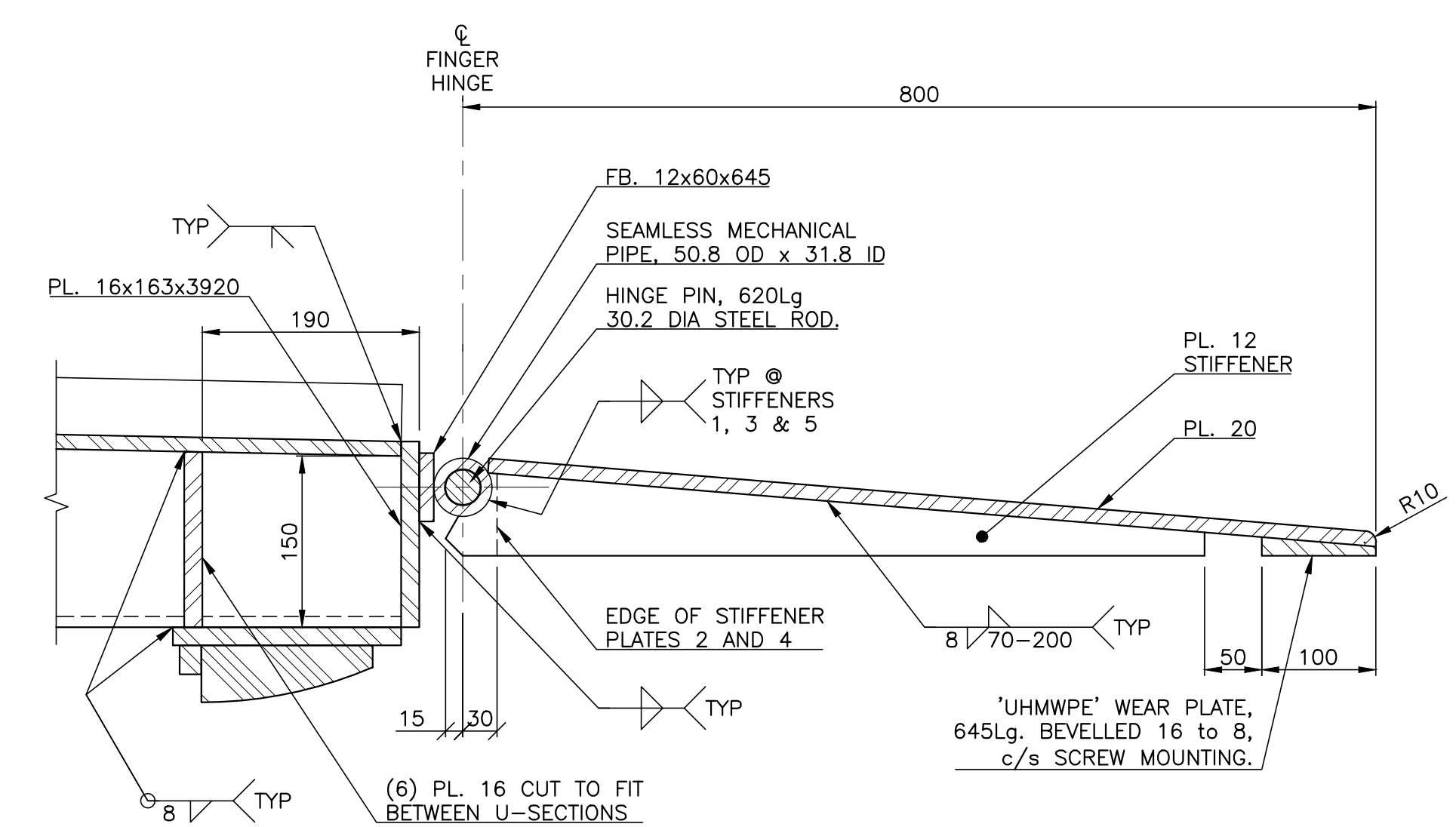
SECTION 19

1 : 10



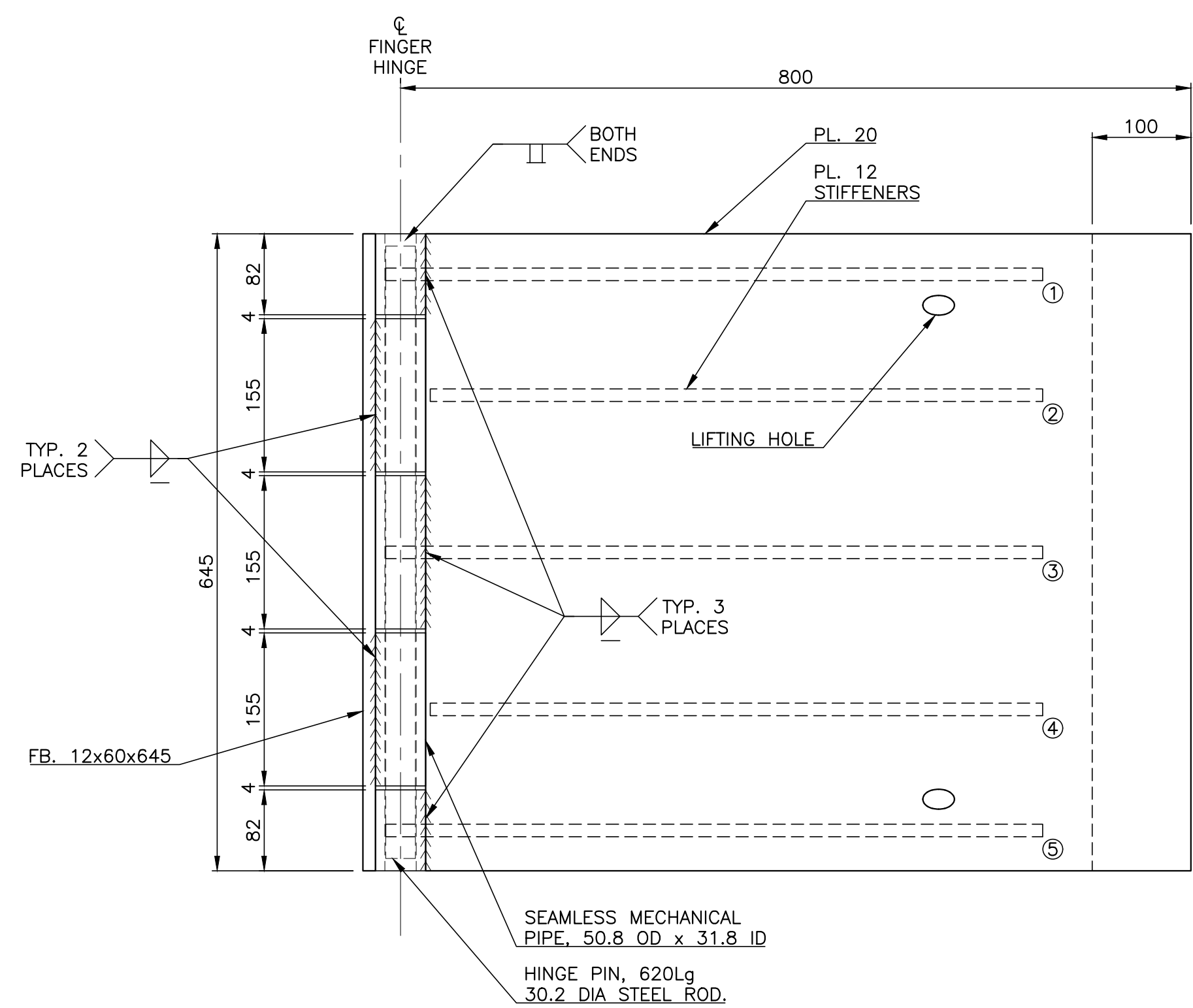
SECTION 21

1 : 10



DETAIL L

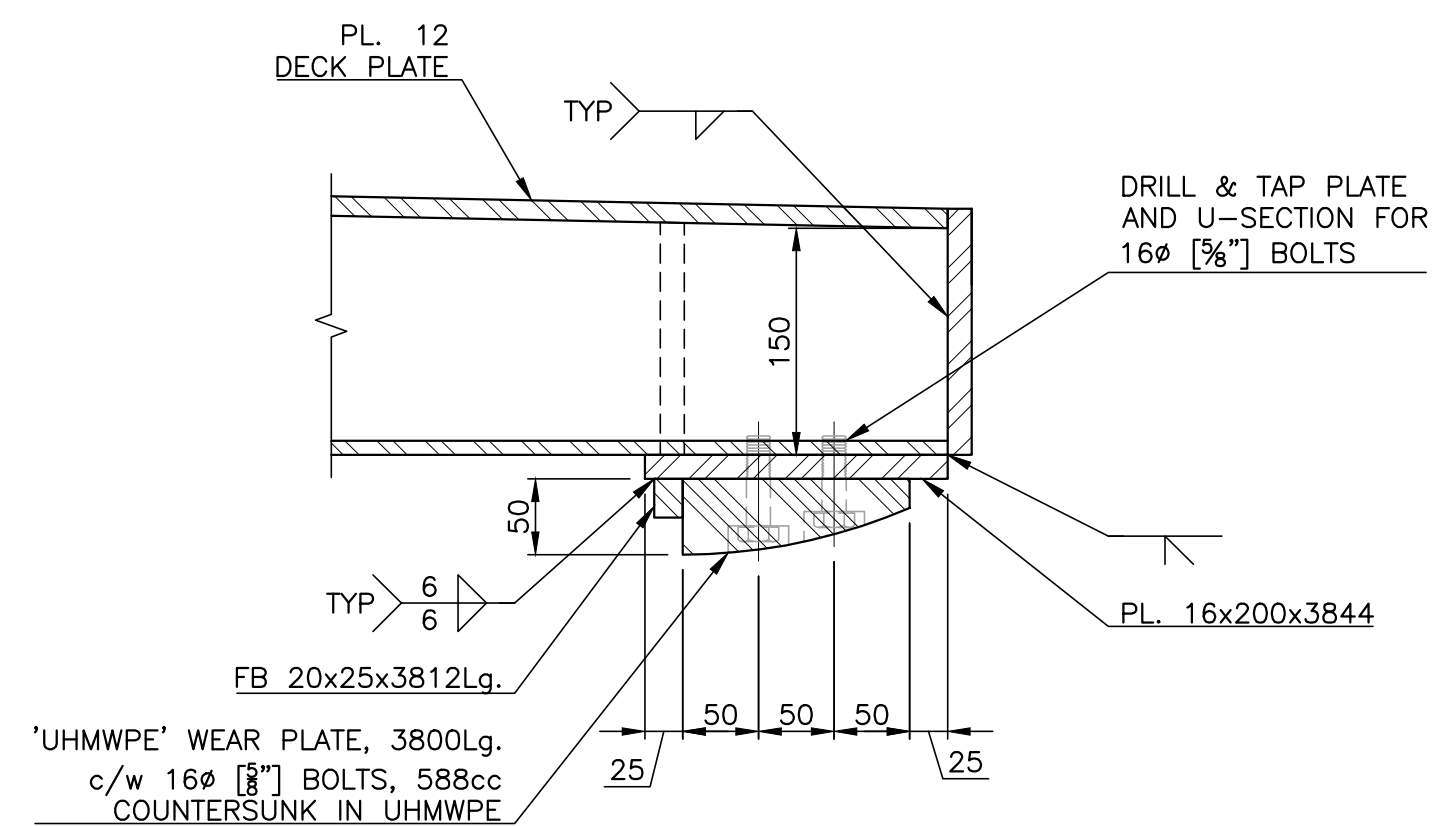
1 : 5



FINGER APRON DETAIL

1 : 5

SIX (6) REQ'D

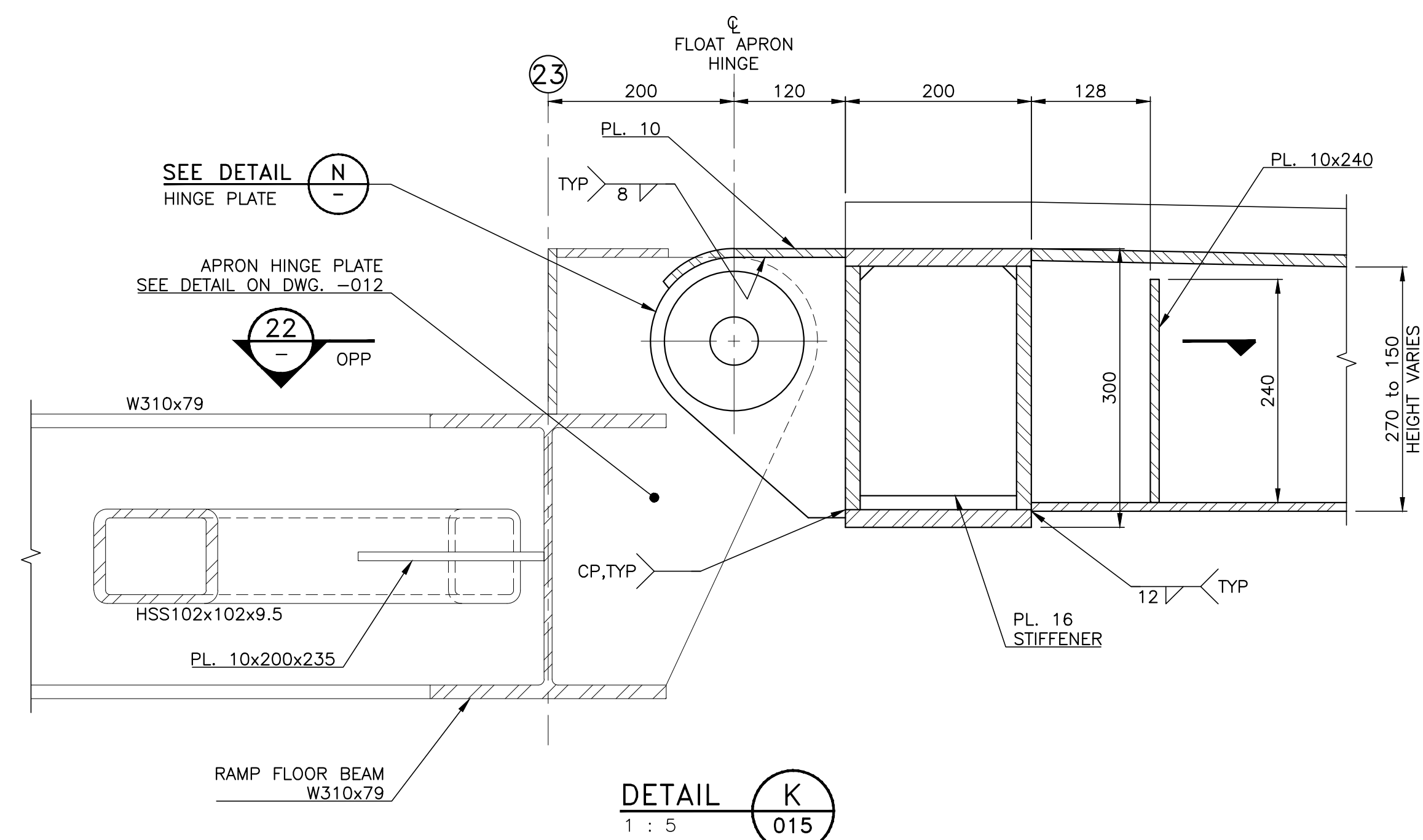


SECTION 20

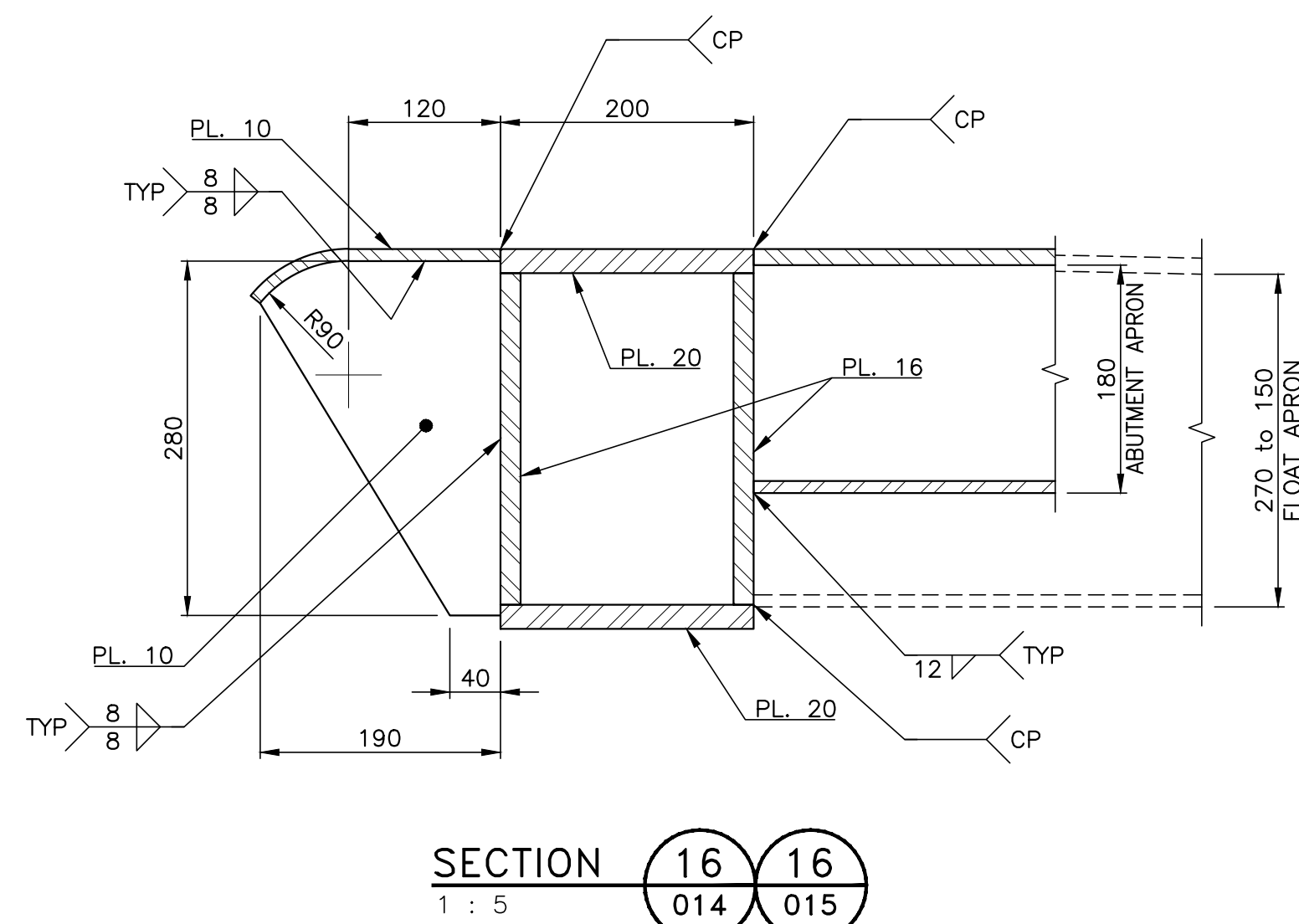
1 : 5

NOTES:

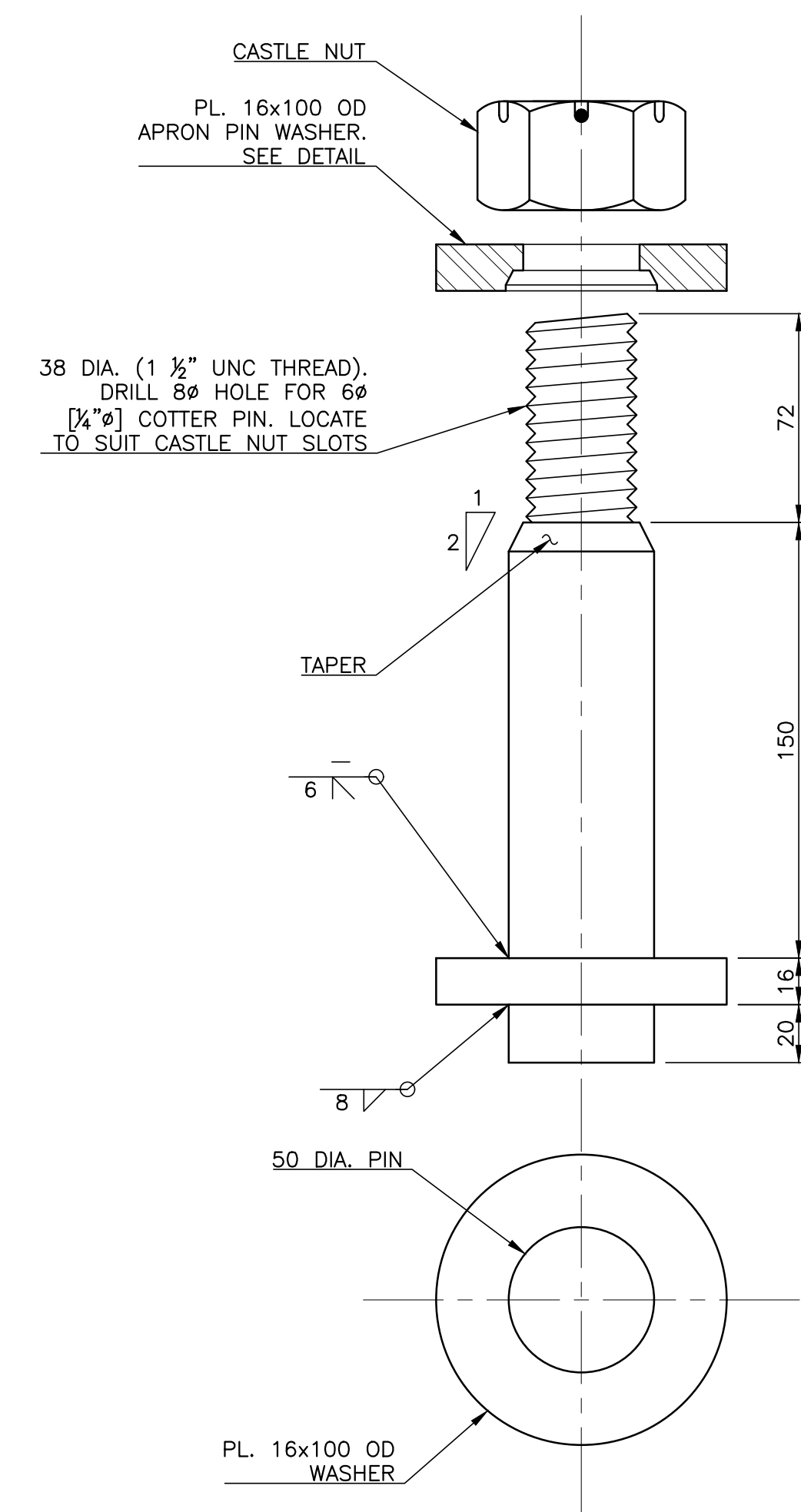
1. REFER TO DRAWING -001 FOR GENERAL NOTES.



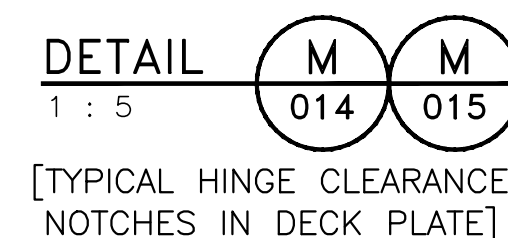
[RAMP / FLOAT APRON ASSEMBLY]




SECTION 16 16
1 : 5 014 015

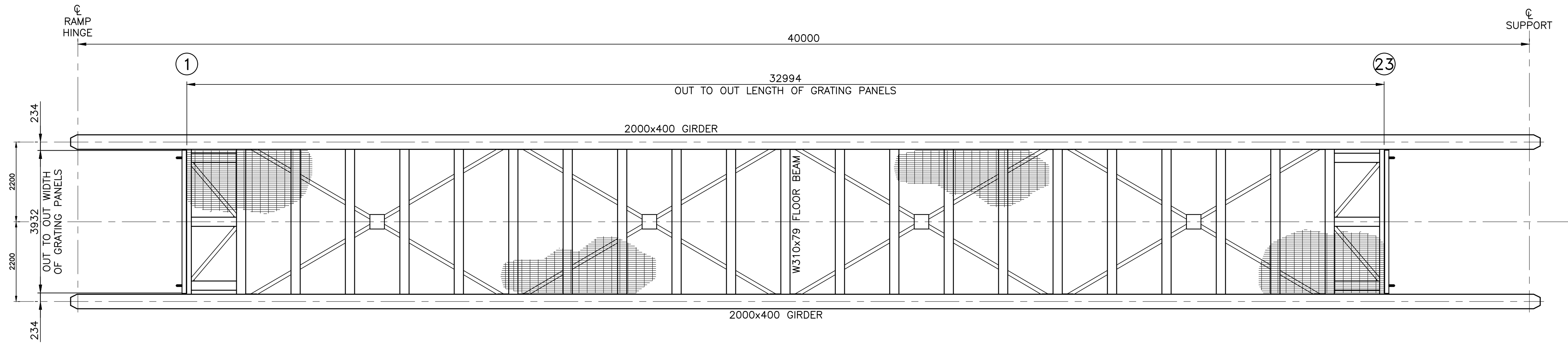


50 DIA. APRON PIN DETAIL
1 : 2
FOUR (4) REQ'D

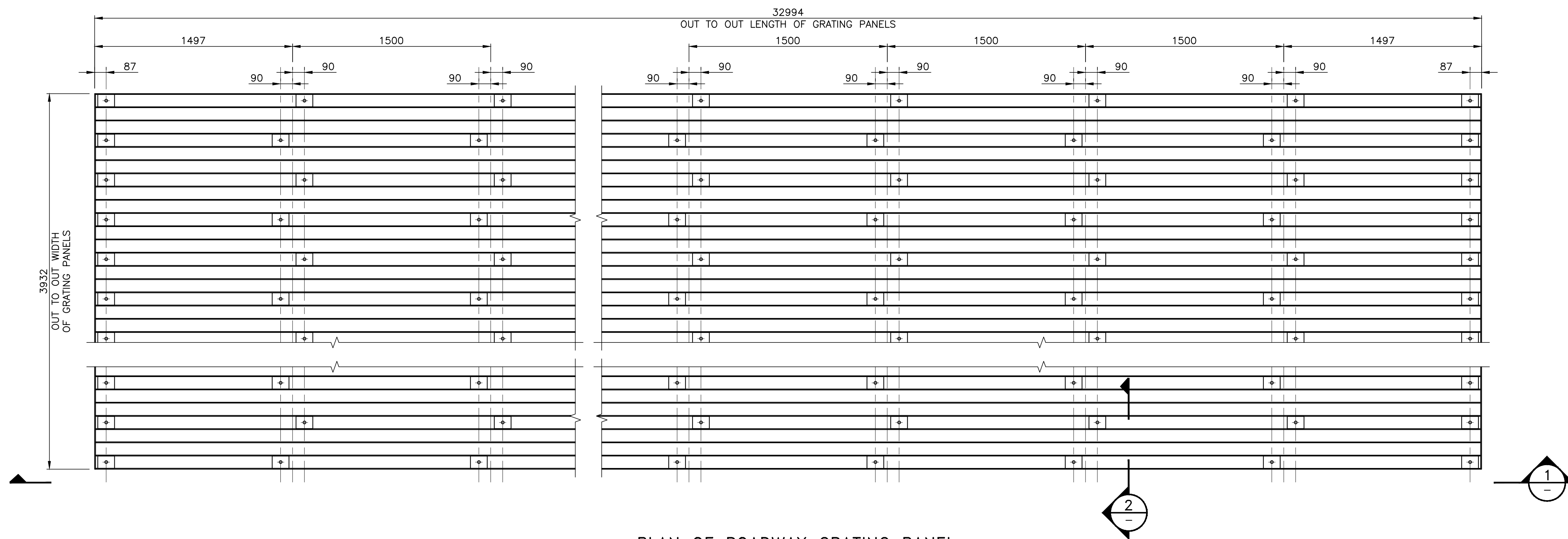


DETAIL 
1 : 5
[HINGE PLATE - 8 REQ'D]

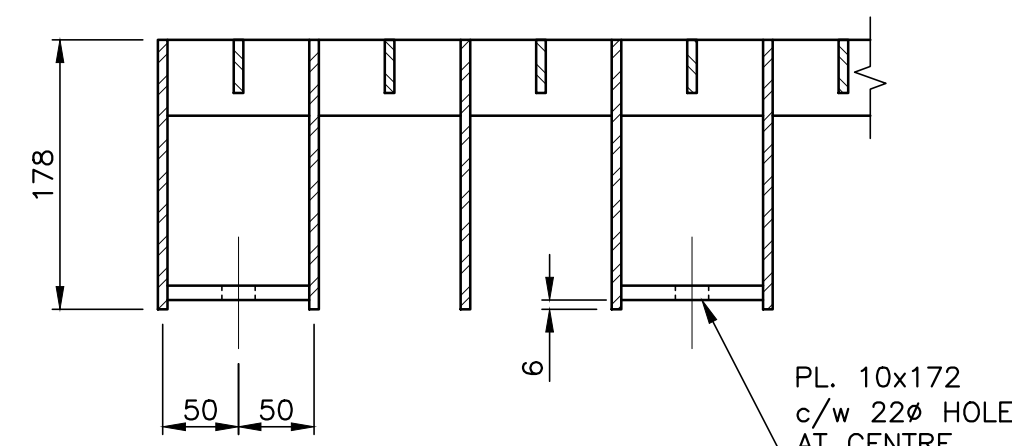
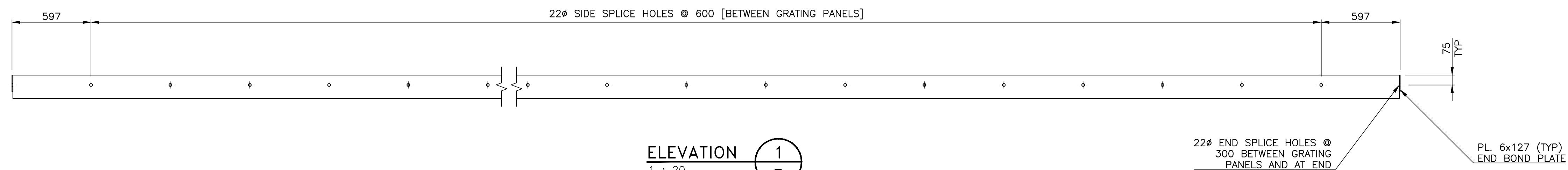
1. REFER TO DRAWING -001 FOR GENERAL NOTES.



GRATING PLAN
1 : 75



PLAN OF ROADWAY GRATING PANEL
1 : 20



SECTION 2
1 : 5

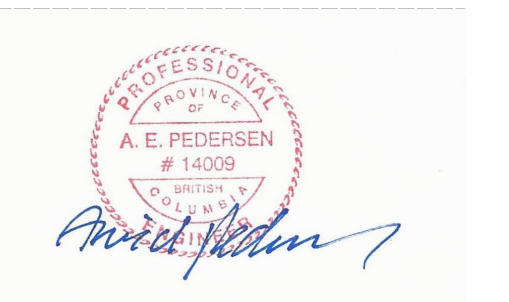
GRATING DESCRIPTION

- ROADWAY GRATING:
- BORDEN R/RL 100-50 x 100 (OR EQUIVALENT) SERRATED, GALVANIZED, 178 X 6.35 MAIN BARS. STEEL 350W CONFORMING TO CSA G.40.21

ROADWAY GRATING HARDWARE

- BOLTS TO BE SUPPLIED WITH GRATING.
- END BOLTS: 19 DIA BOLTS c/w NUTS & WASHERS.
- SIDE BOLTS: 19 DIA BOLTS c/w NUTS & WASHERS.
- HOLD DOWN BOLTS: 19 DIA BOLTS c/w NUTS & WASHERS.
- (FLOOR BEAMS; W310x79; 14.6mm FLANGE)

NOTES:
1. REFER TO DRAWING -001 FOR GENERAL NOTES.



Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	20/03/23

Client/client

Fisheries & Oceans Canada
Real Property
Technical Support Division
200 - 401 Burrard Street
Vancouver, Canada, V6C 3S4

Project title/Titre du projet

REAL PROPERTY
40m LONG VEHICLE RAMP

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

Client/client
VJA

Drawing title/Titre du dessin

RAMP GRATING
GENERAL ARRANGEMENT

Project No./No. du projet
220103

Sheet/Feuille
017
OF

Revision no./
La Révision
no.
0