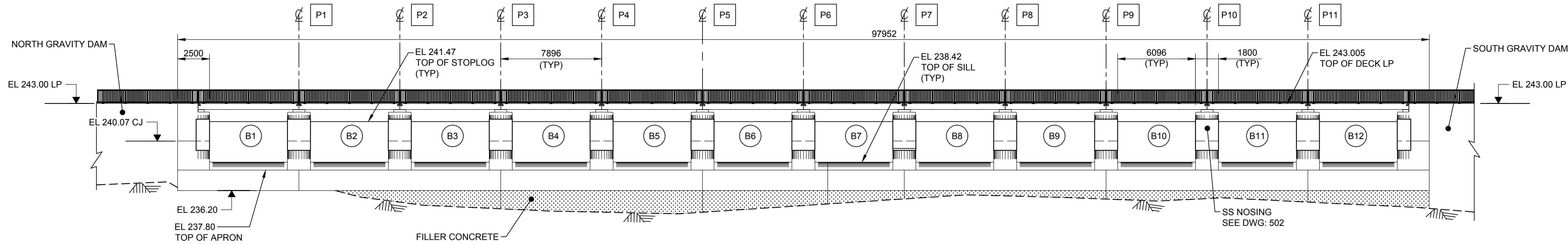


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WP-2	721 830,103	4937 554, 898
WP-3	721 834,414	4937 607, 527
WP-4	721 820,527	4937 604, 865
WP-5	721 852,851	4937 511, 010
WP-6	721 838,964	4937 508, 864
WP-7	721 801,735	4937 704, 509
WP-8	721 854,128	4937 431, 132

GENERAL CONCRETE LAYOUT PLAN VIEW

1:500



UPSTREAM ELEVATION (LOOKING DOWNSTREAM)

1:200

Canada

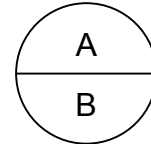
CIMA+

Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	0300 0

- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - DESIGN SUPPLY AND INSTALL A NEW SAFETY BOOM COMPLETE WITH ON-SHORE AND IN-WATER ANCHORS. SEE SPECIFICATION SECTION 35 42 15.

No.	Description	By	Date
0	FOR TENDER	R.M	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

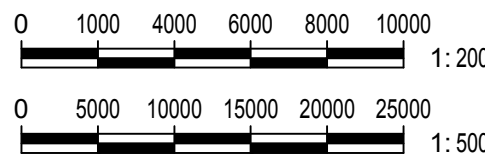
Project title / Titre du projet

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

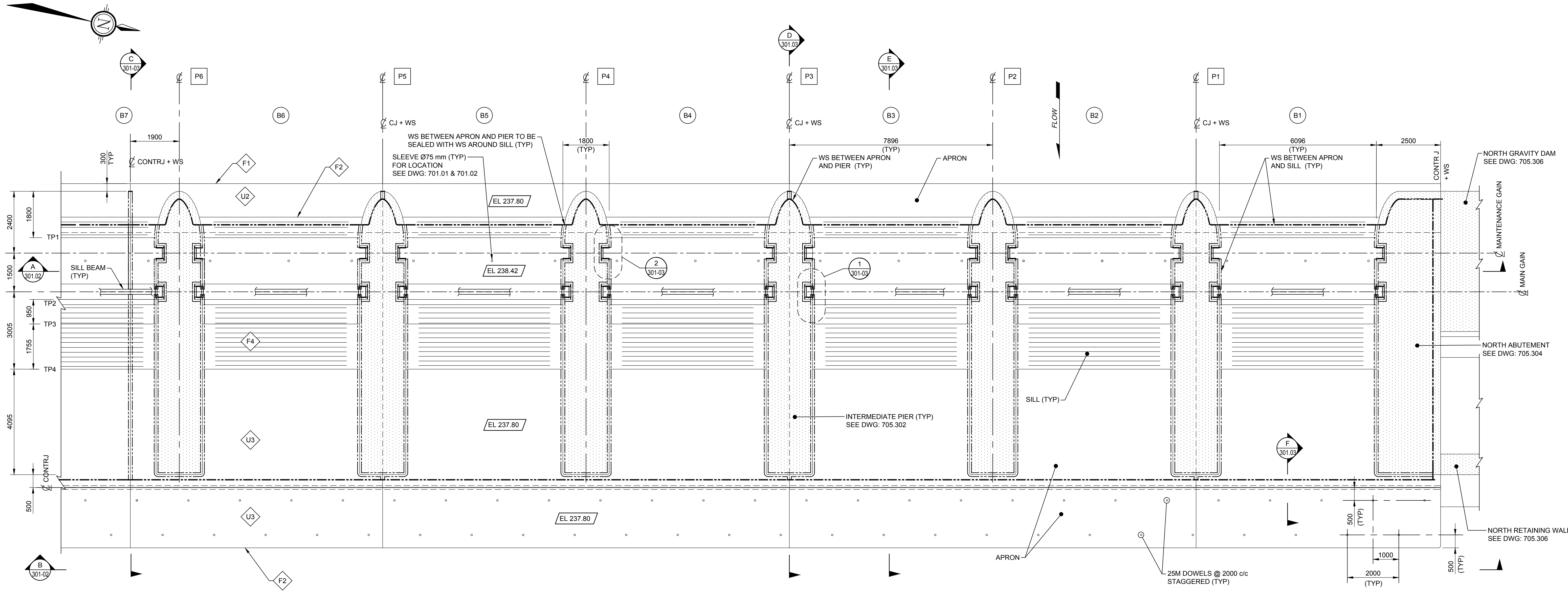
Drawing title / Titre du dessin

CONCRETE
GENERAL LAYOUT
PLAN AND ELEVATION

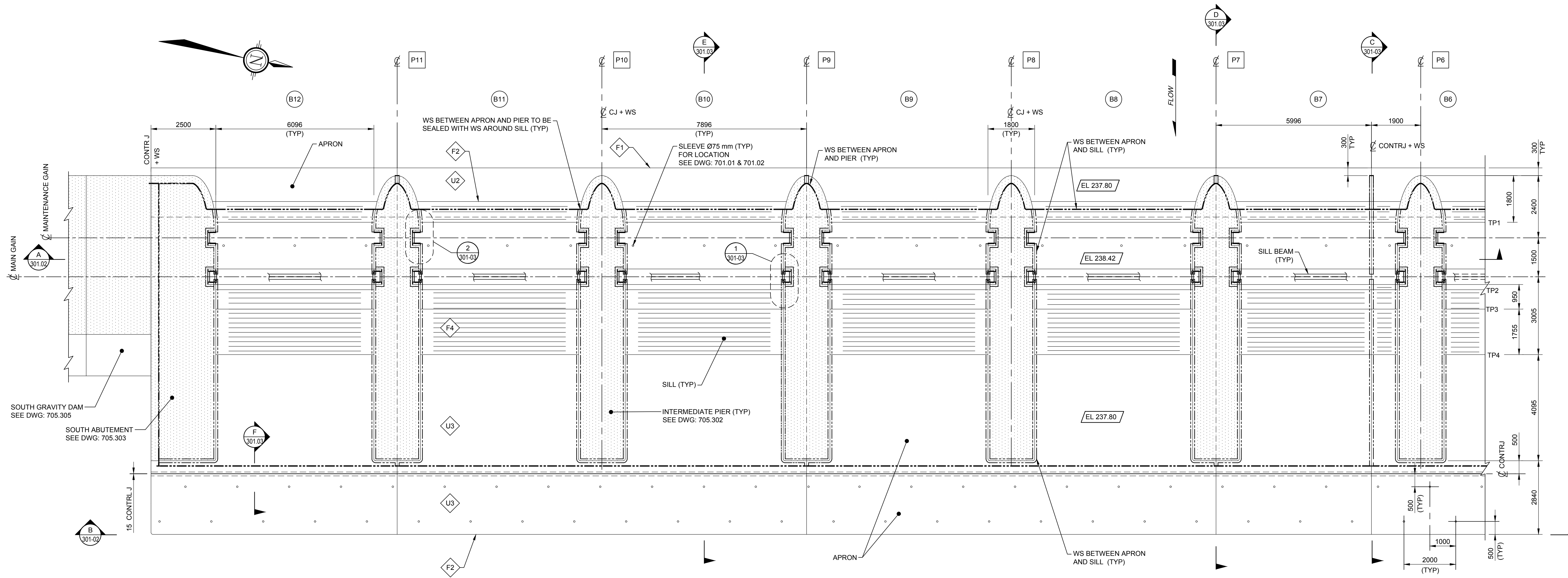
Drawn by / Dessiné par H. BOVIN Verified by / Vérifié par R. MIGUEL	Designed by / Conçu par Y. BERTON Approved by / Approuvé par S. VITTECOQ	P.Eng. P.Eng. P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number/ Numéro du Dessin 300	Sheet Feuille 1 of 1



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres



PLAN AT EL 238.42
1:75



PLAN AT EL 238.42 (CONTINUED)
1:75

Contract No.	Drawing Code	Serial	Rev.
HS00243	210 41DD	1301	0

NOTES:
1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS
SEE DRAWING 002.

No.	Description	R.M.	Date
0	FOR TENDER		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

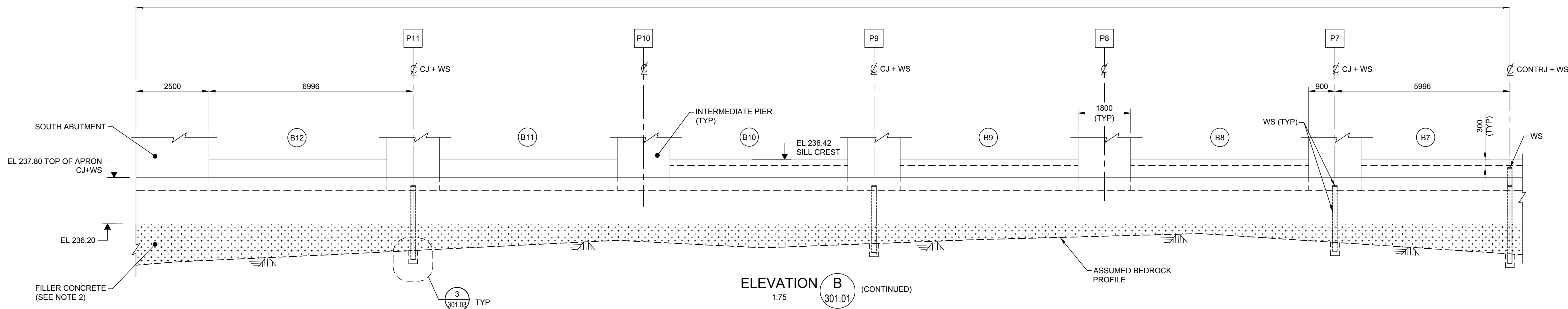
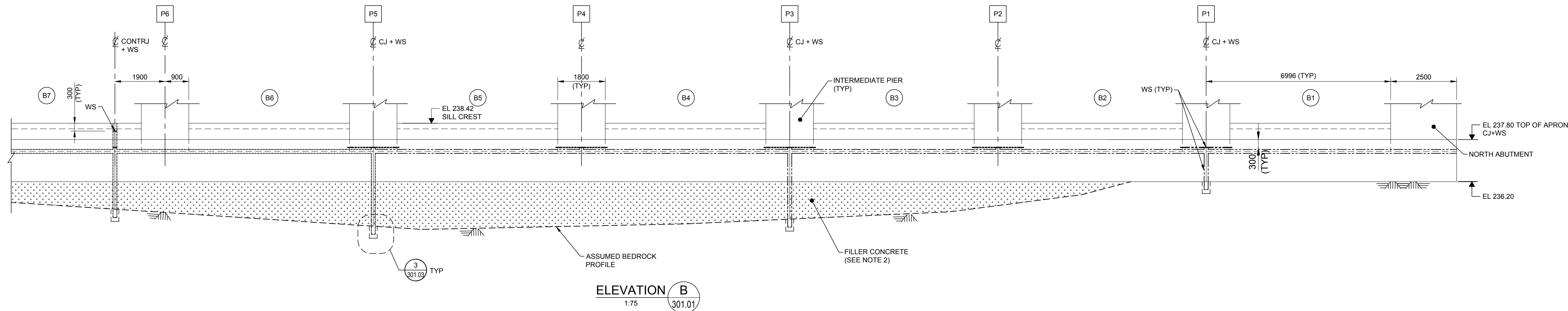
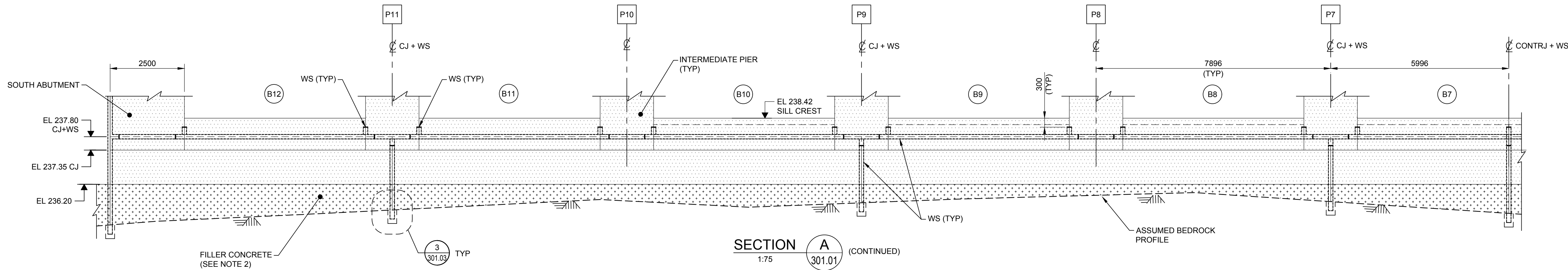
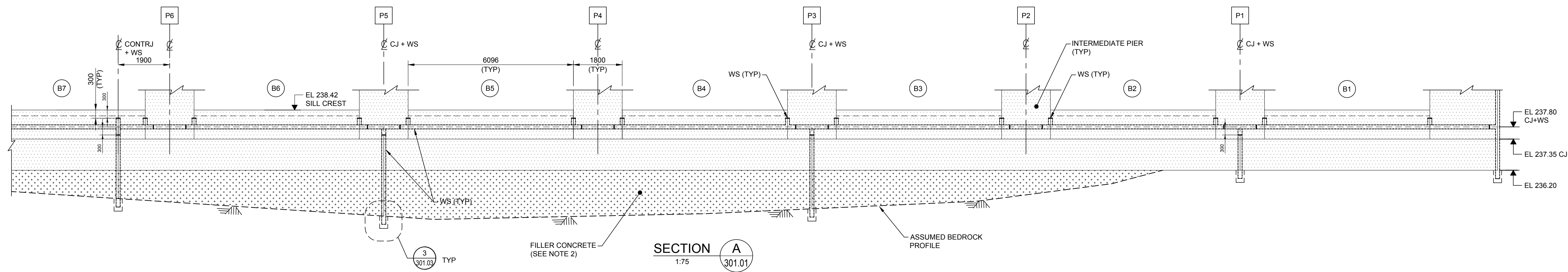
TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

Drawing title / Titre du dessin

CONCRETE
SPILLWAYS - APRON & SILLS
PLAN, ELEVATIONS
SECTIONS AND DETAILS

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU P.Eng.
Verified by / Vérifié par R. MIGUEL	Approved by / Approuvé par S. VITTECOQ P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 301
Project Number / Numéro du projet R.076951.705	Sheet Feuille 1 of 3

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Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	2301

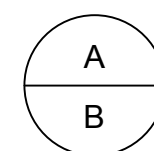
NOTES:

- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
- FILLER CONCRETE IS SHOWN FOR INDICATIVE PURPOSES. SEE NOTE 11 ON DWG. 002.

No.	Description	R.M.	By	Date
0	FOR TENDER			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

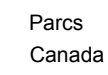
Drawing title / Titre du dessin

CONCRETE
SPILLWAY - APRON & SILLS
PLAN, ELEVATIONS
SECTIONS AND DETAILS

Drawn by / Dessiné par I. ZIECIK	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par R. MIGUEL	Approved by / Approuvé par S. VITTECOQ	P.Eng.

Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 301
Project Number / Numéro du projet R.076951.705	Sheet Feuille 2 of 3

0 750 1500 1500 2250 3750
1:75



Canada

CIMA+

Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	3301
			0

NOTES:

- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
- FOR DETAILS OF MECHANICAL EMBEDDED PARTS IN FIRST AND SECOND PHASE CONCRETE, SEE DRAWING 601 AND 602.
- FILLER CONCRETE IS SHOWN FOR INDICATIVE PURPOSES. SEE NOTE 11 ON DWG. 002.

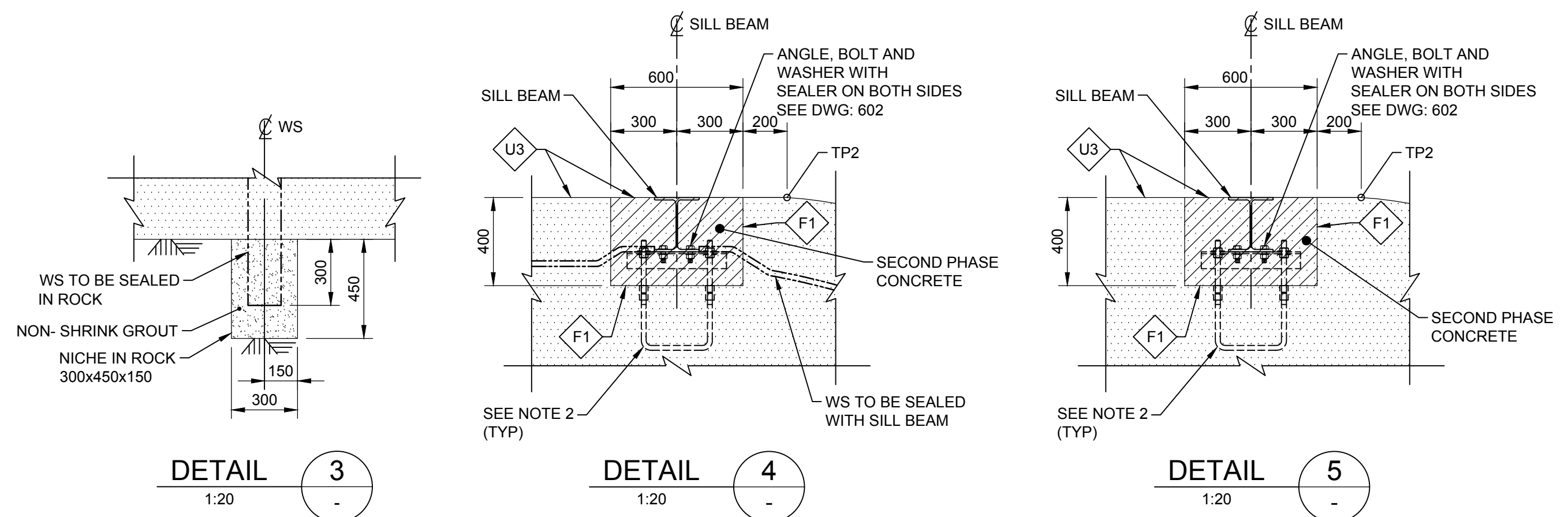
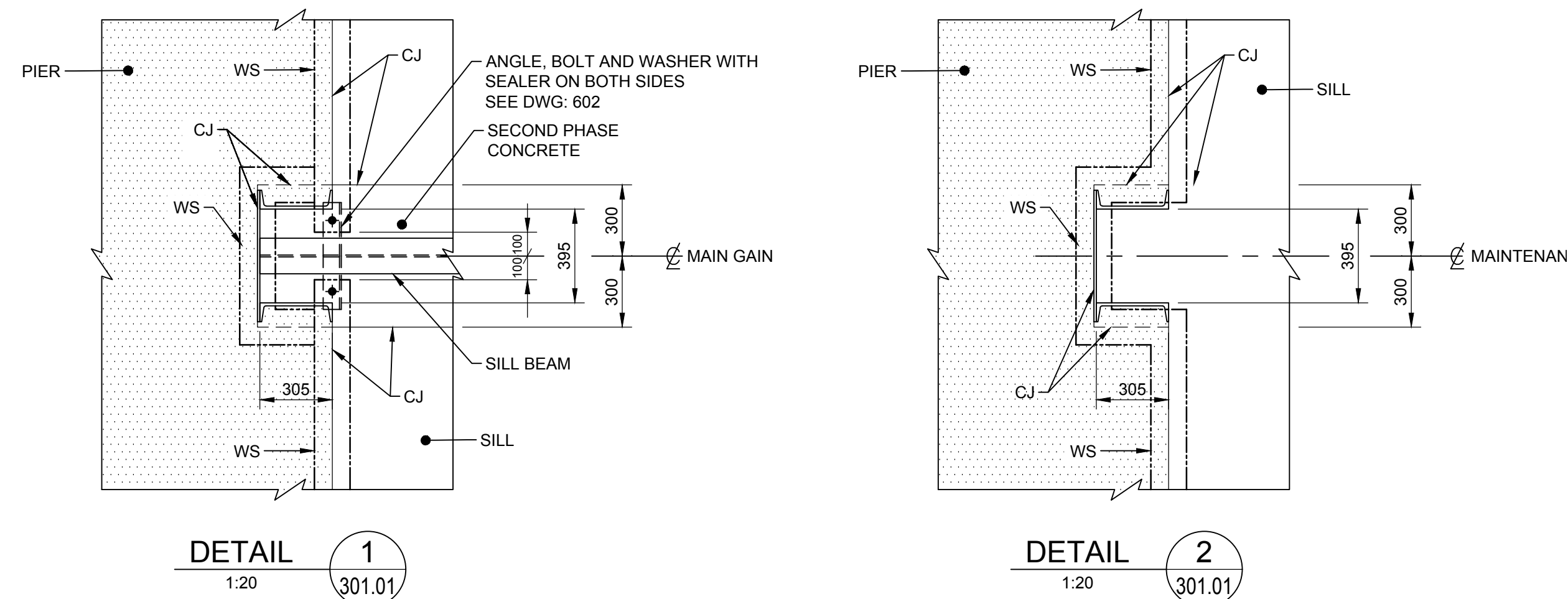
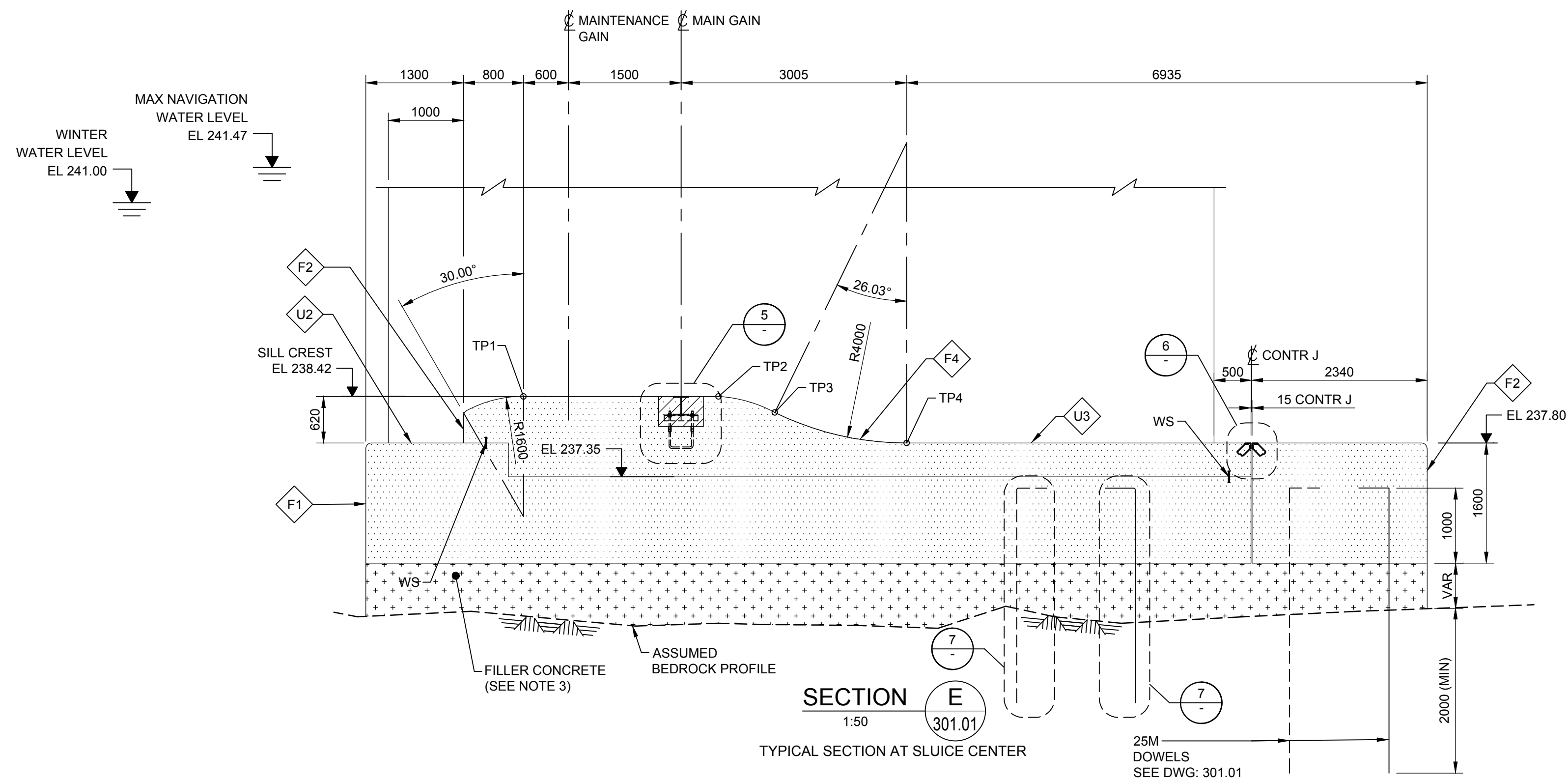
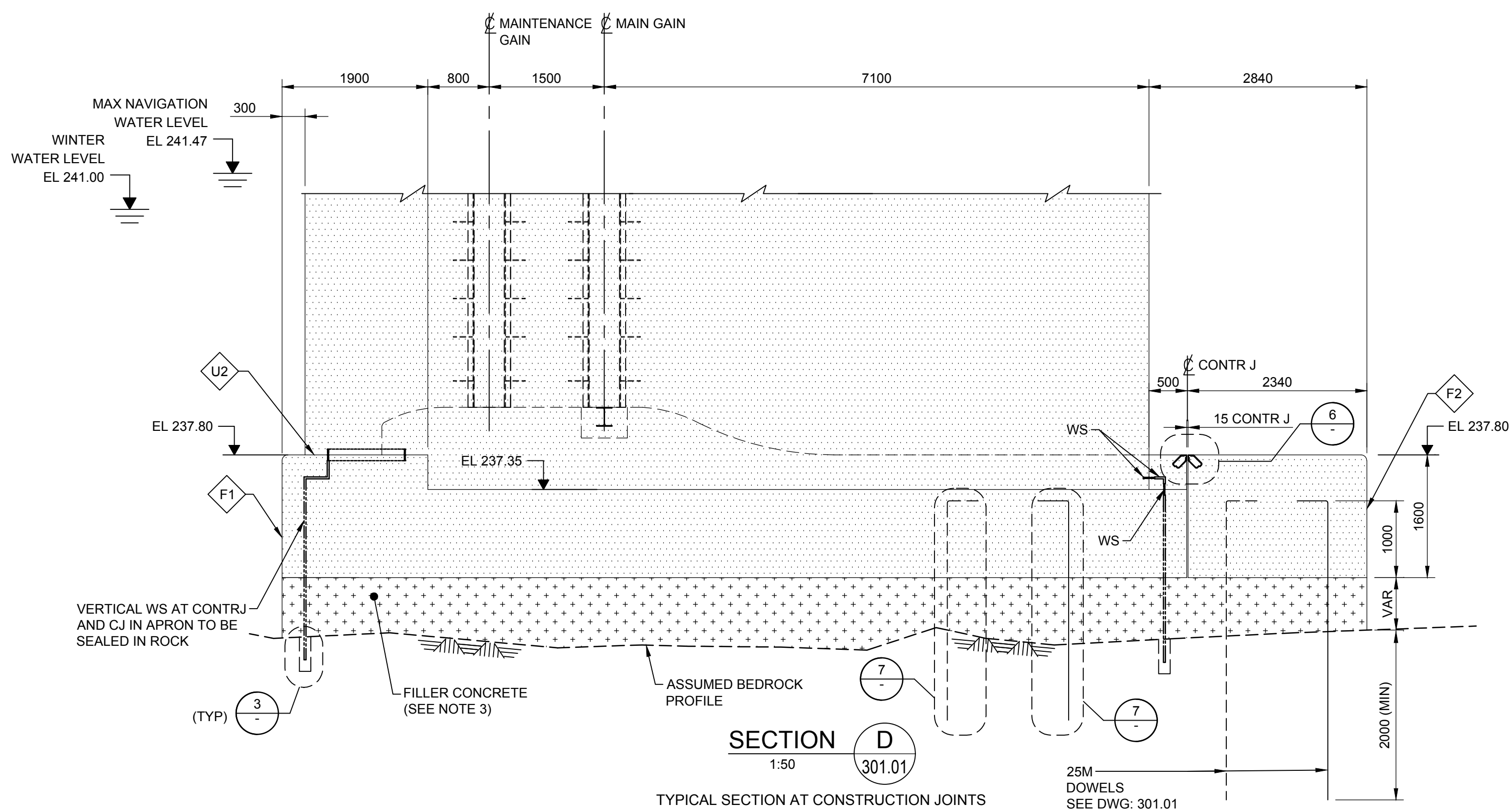
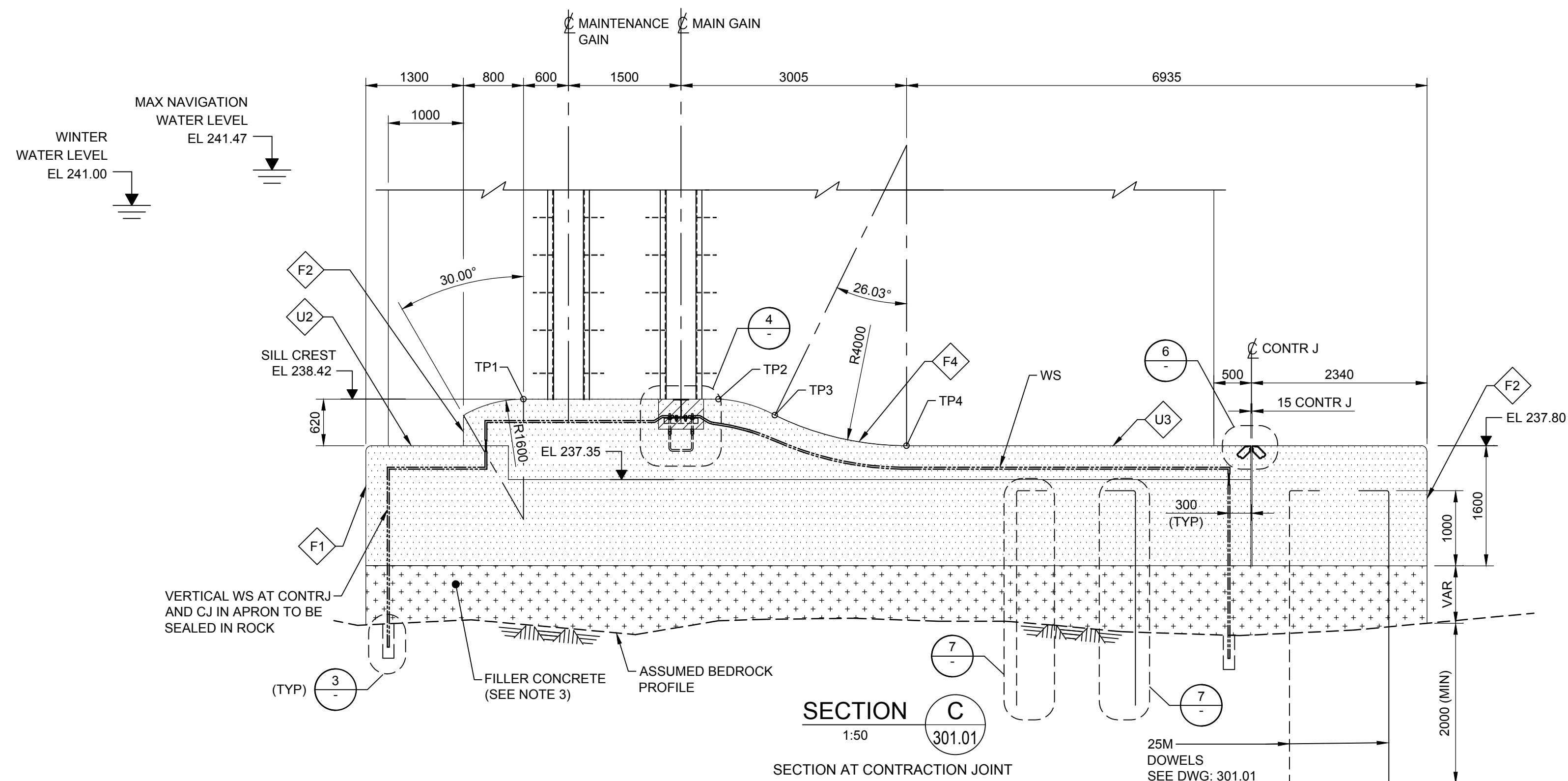
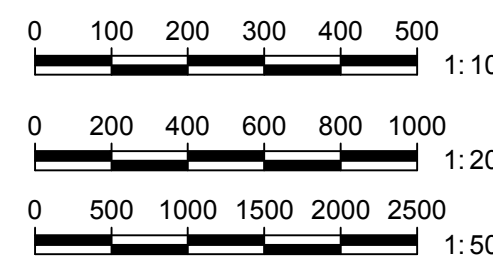


TABLE-1 SPILLWAY SILL PROFILE			
x (mm)	EL (m)	POINT	REMARKS
-2900	238.162		CIRCULAR ARC OF RADIUS 1600
-2700	238.303		
-2500	238.369		
-2300	238.407		
-2100	238.420	TP1	CIRCULAR ARC OF RADIUS 4000
-1500	238.420	MAINTENANCE GAIN	
0	238.420	MAIN GAIN & SILL BEAM	
500	238.420	TP2	
750	238.387		
1000	238.317		
1250	238.206	TP3	
1500	238.094		
1750	238.003		
2000	237.929		
2250	237.872		
2500	237.832		
2750	237.809		
3005	237.800	TP4	

TABLE-2 ELEVATIONS AT SLUICES CENTER		
SLUICES	BATHYMETRY	
	UPSTREAM	DOWNSTREAM
B1	236.756	237.288
B2	237.500	236.585
B3	237.250	236.465
B4	237.091	236.300
B5	236.910	236.500
B6	237.317	236.750
B7	237.800	237.800
B8	237.750	237.750
B9	237.250	237.750
B10	237.171	237.800
B11	236.072	237.750
B12	235.412	237.441



0	FOR TENDER	R.M	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

Drawing title / Titre du dessin

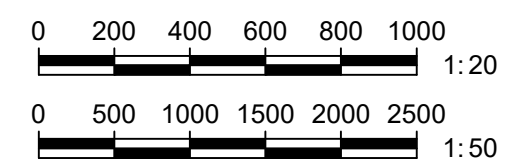
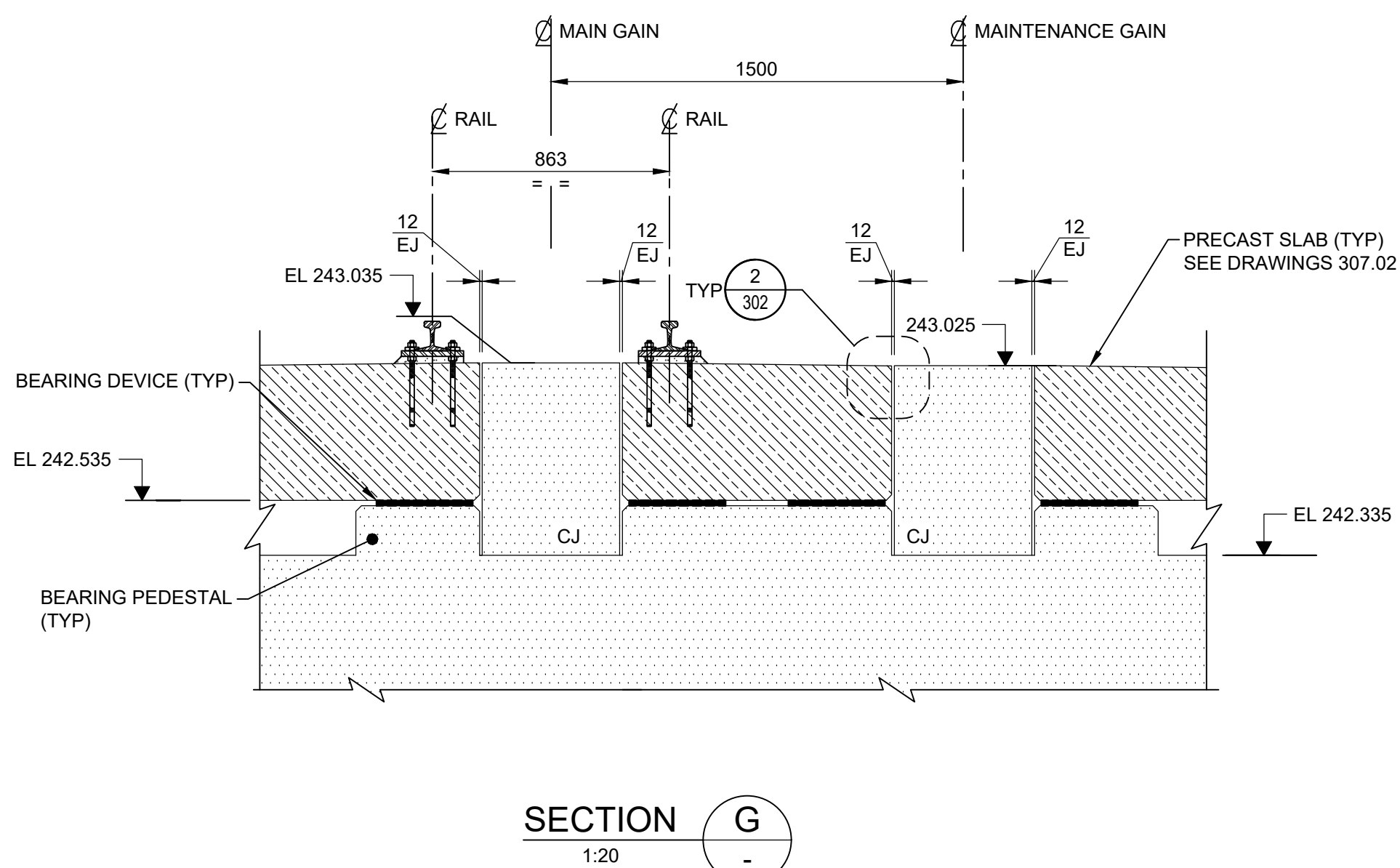
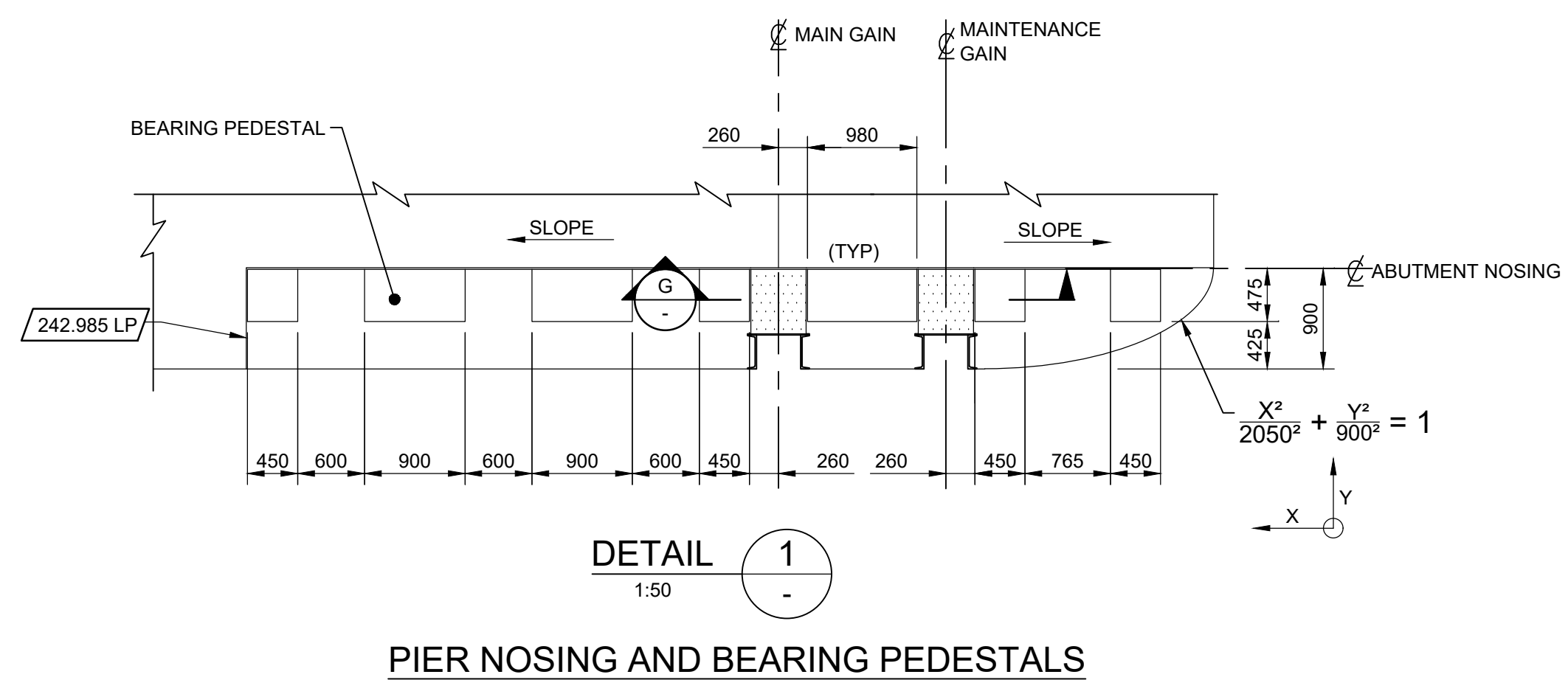
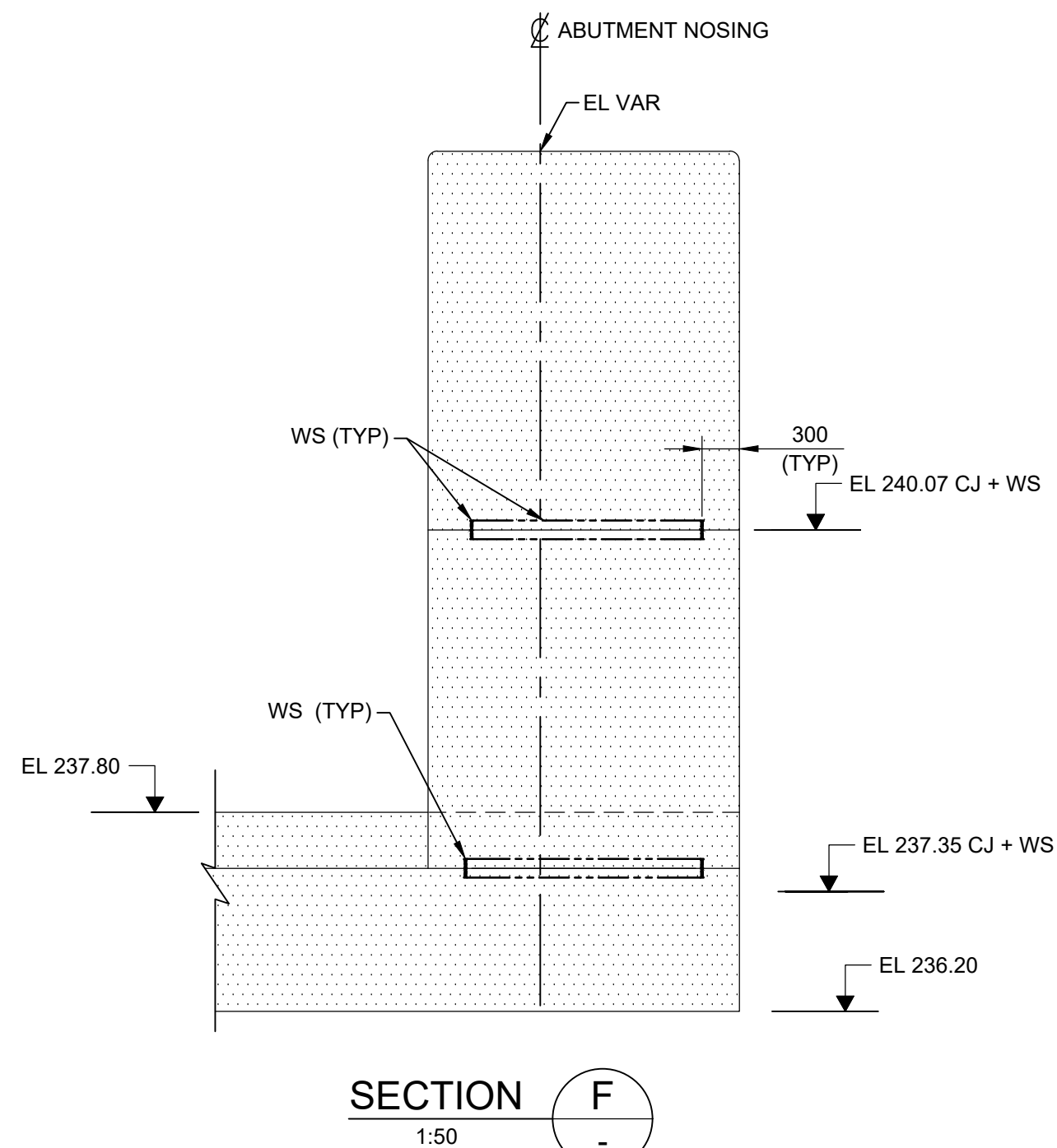
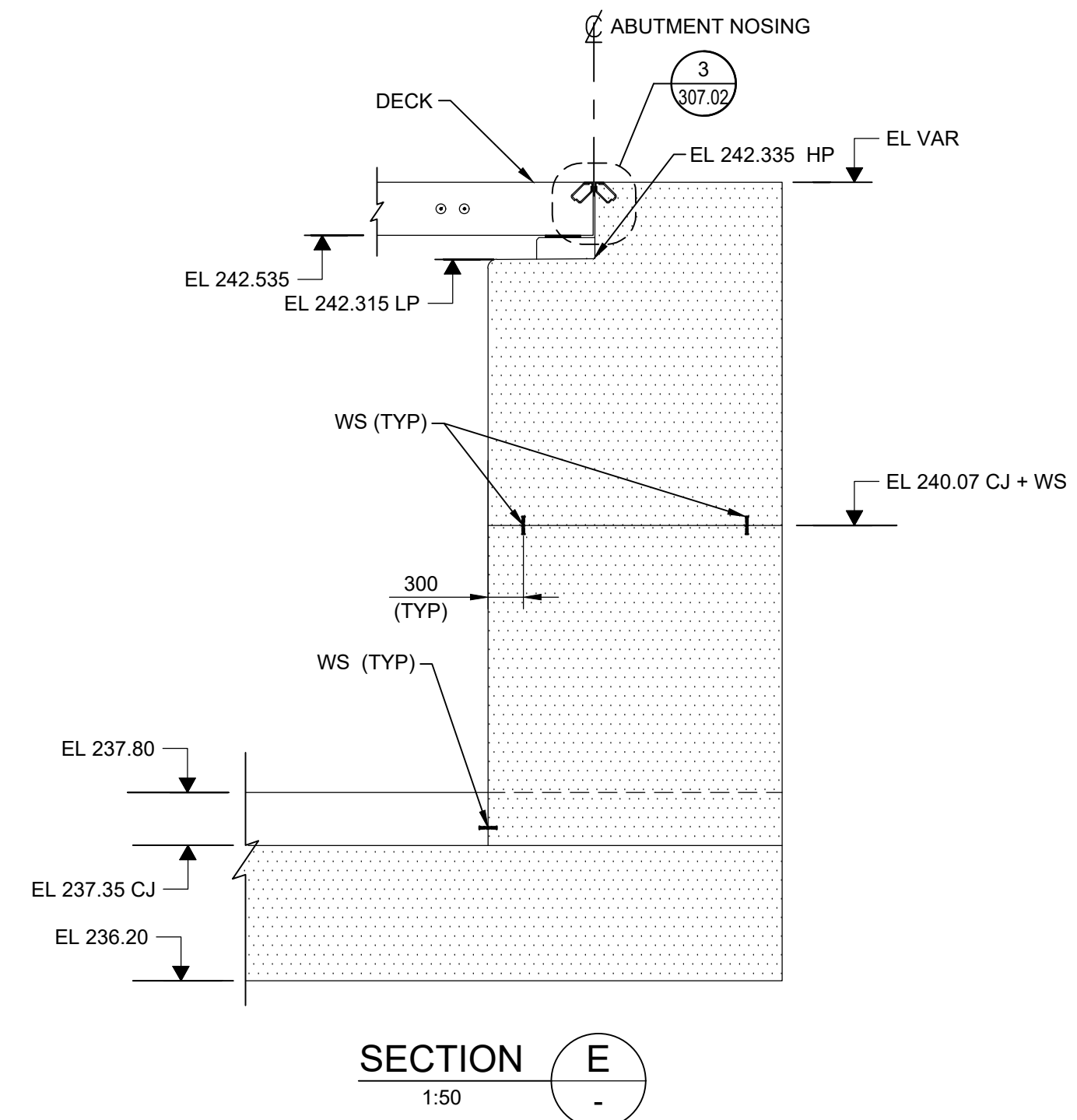
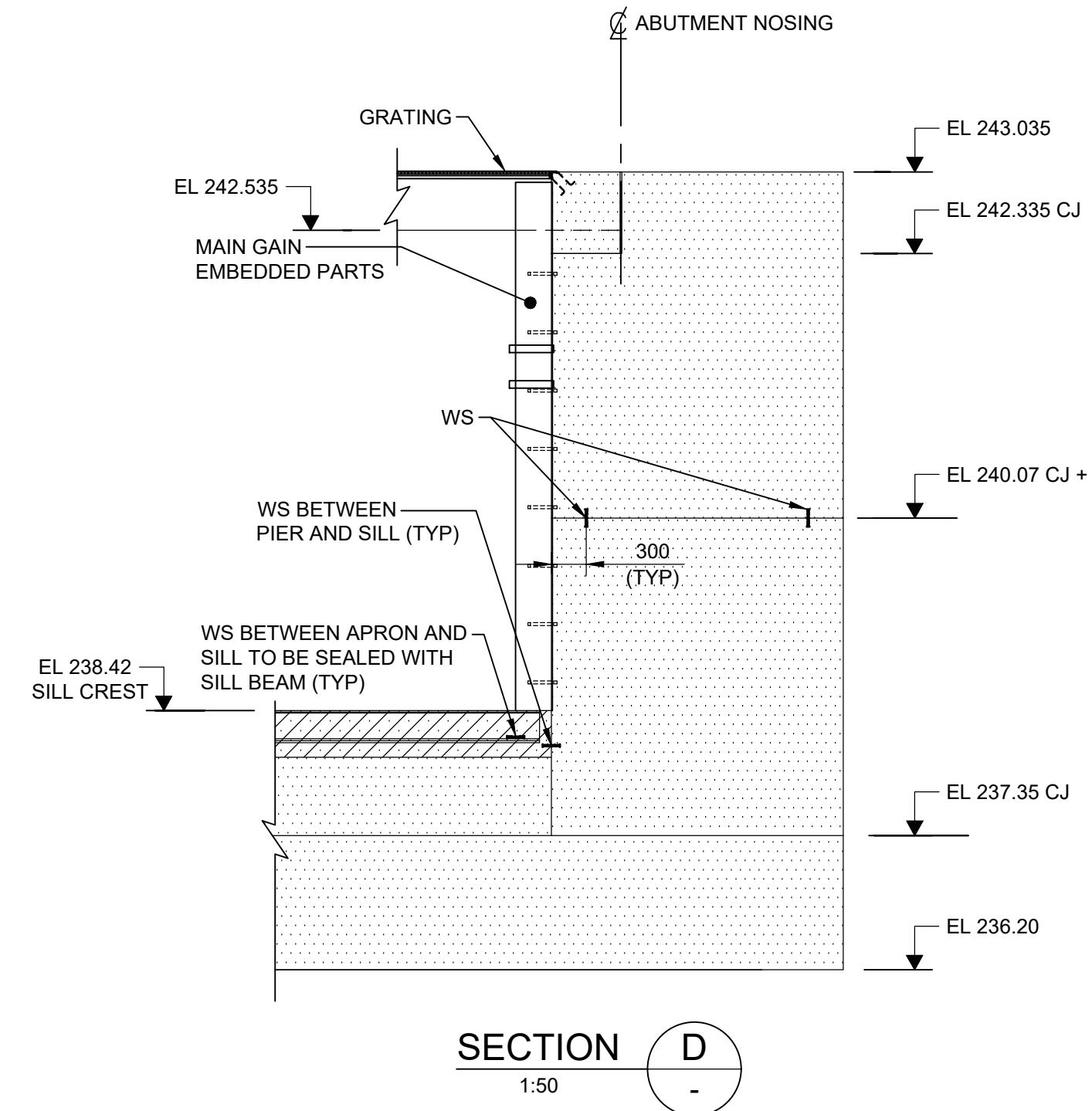
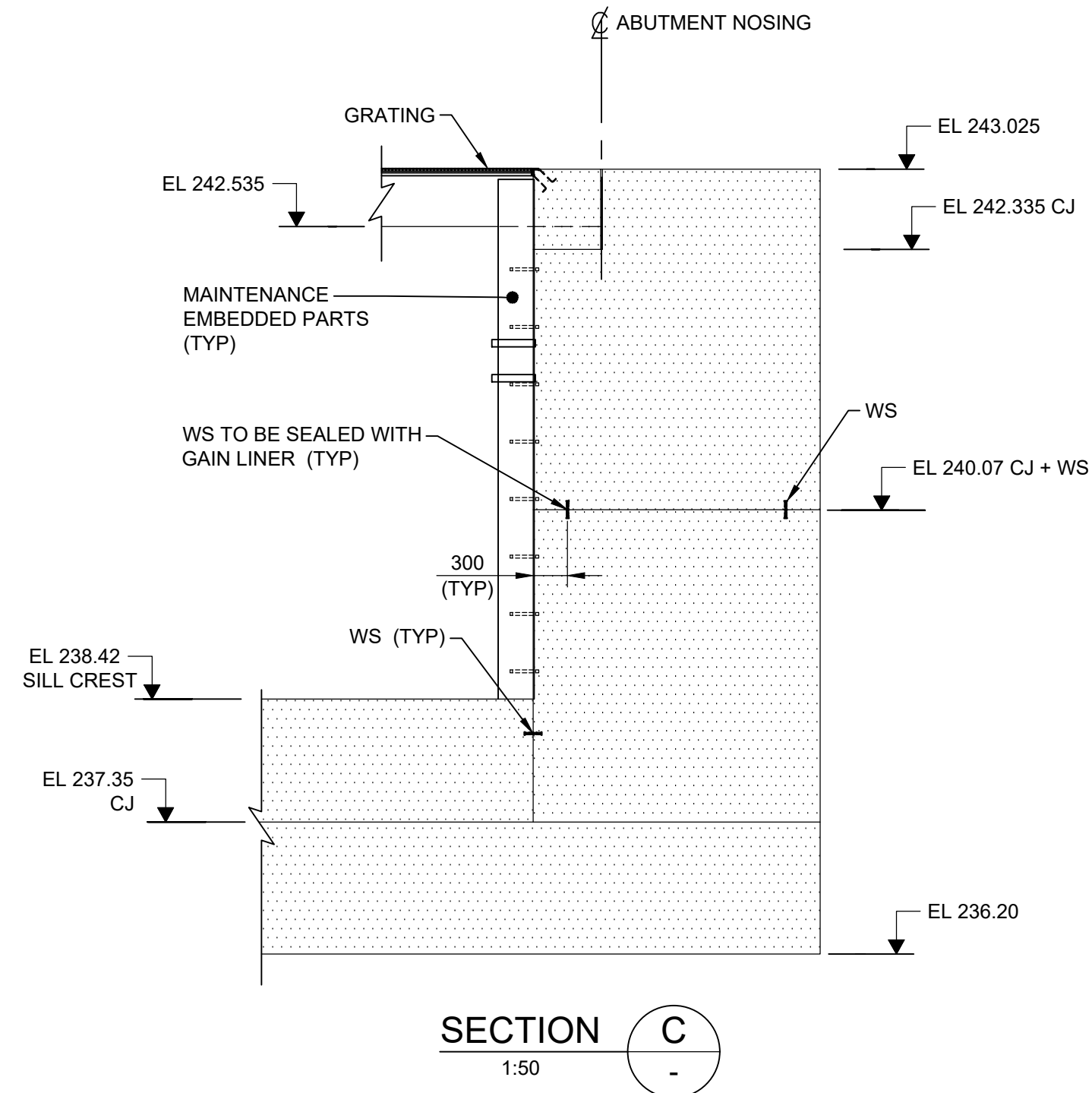
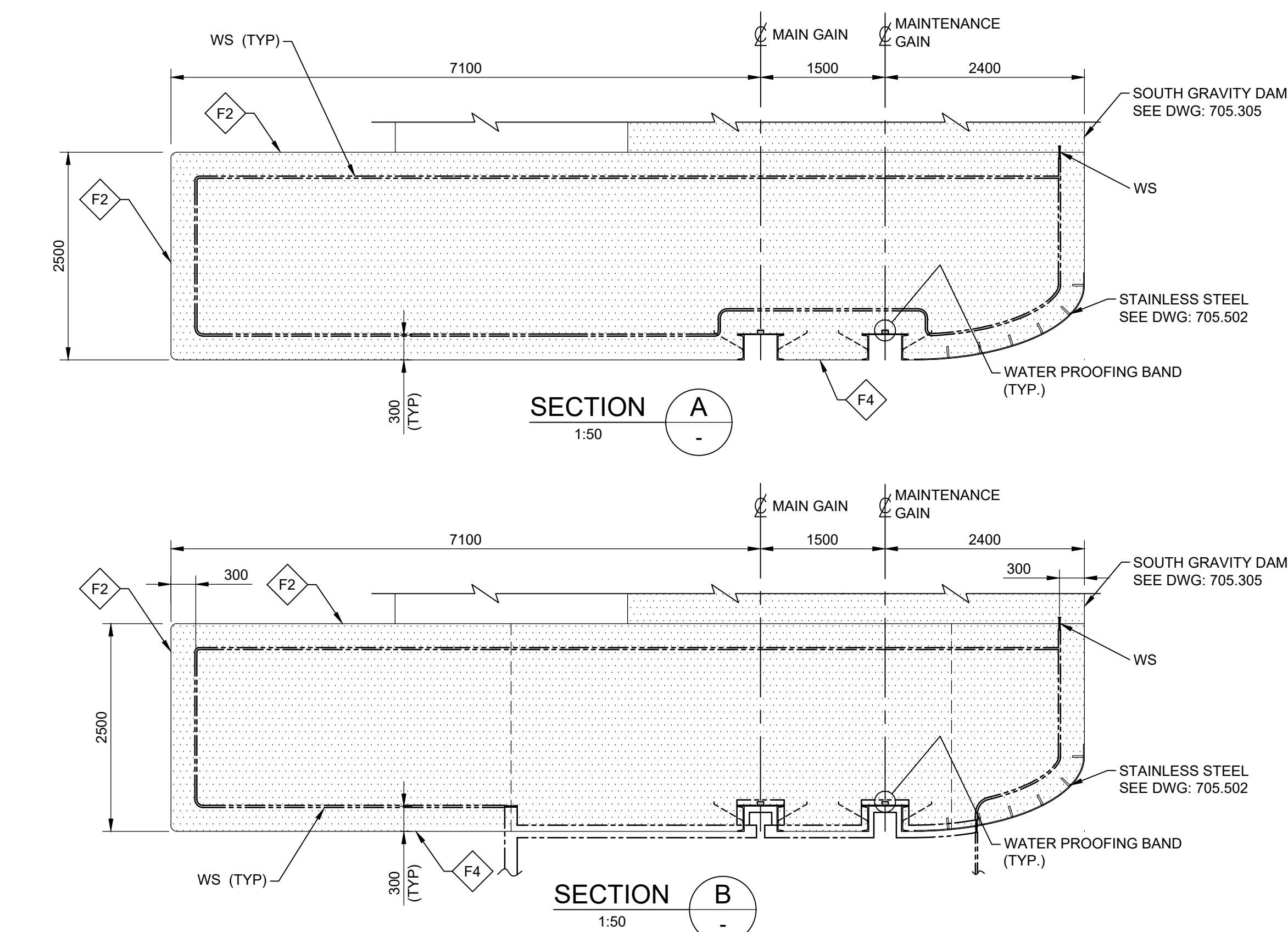
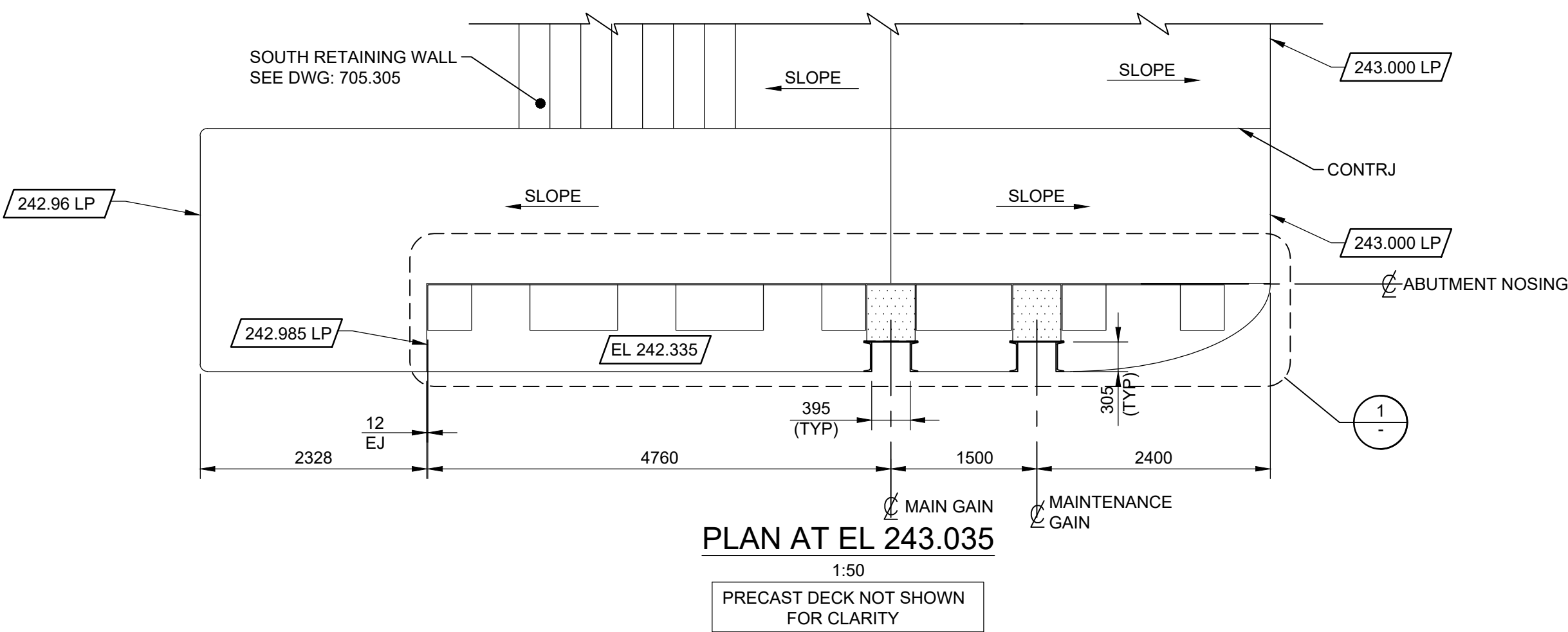
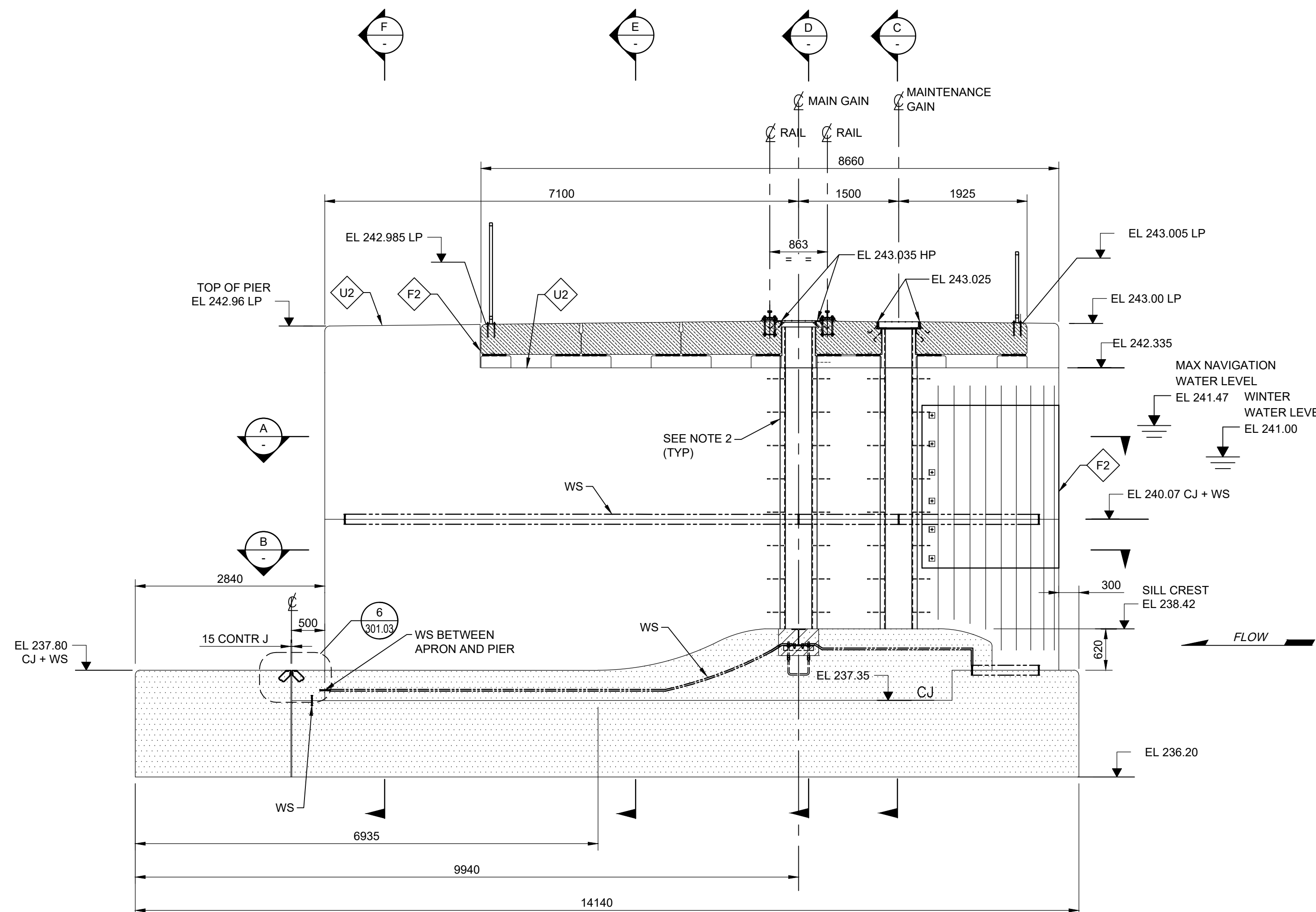
CONCRETE
SPILLWAY - APRON & SILLS
PLAN, ELEVATIONS
SECTIONS AND DETAILS

Drawn by / Dessiné par	Designed by / Conçu par
I. ZIECIK	M. SAIDOU P.Eng.

Verified by / Vérifié par	Approved by / Approuvé par
R. MIGUEL P.Eng.	S. VITTECOQ P.Eng.


Drawing Date / Date du dessin	Drawing Number / Numéro du Dessin
05/13/2020	301

Project Number / Numéro du projet	Sheet 3 of 3
R.076951.705	



NOTES:

1. FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
2. FOR DETAILS OF MECHANICAL EMBEDDED PARTS IN FIRST AND SECOND PHASE CONCRETE, SEE DRAWINGS 600 TO 602.

Revision / Révision

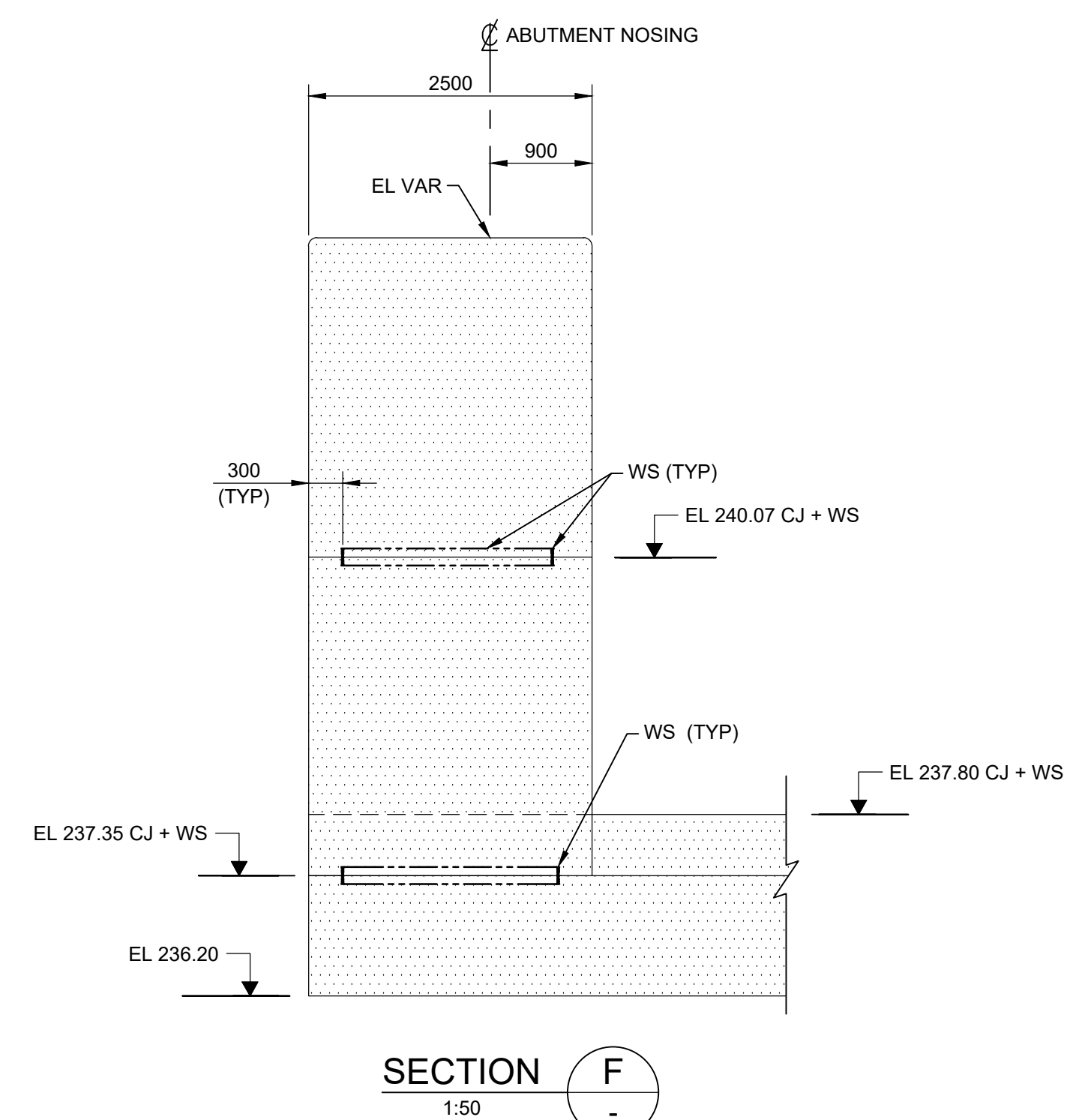
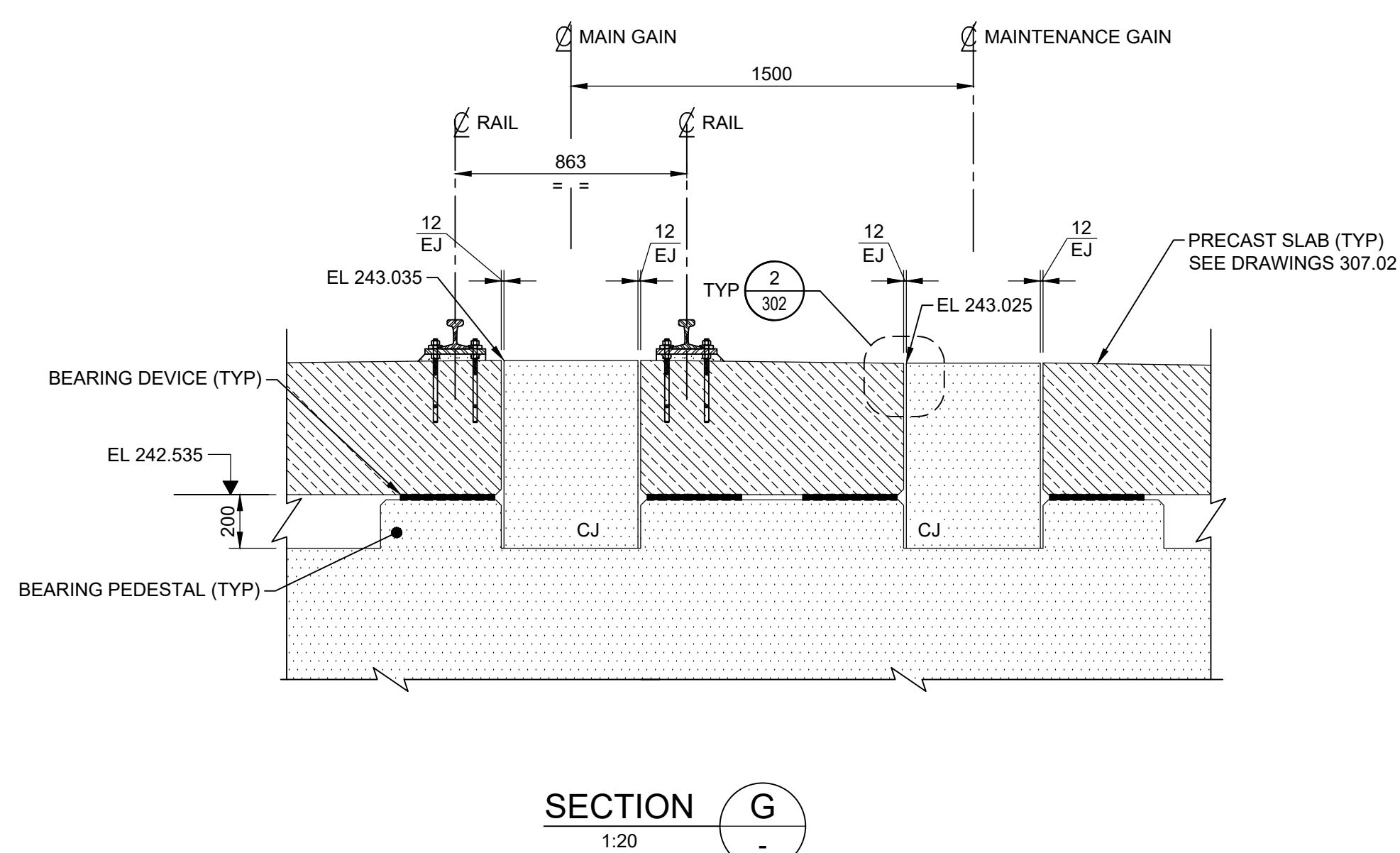
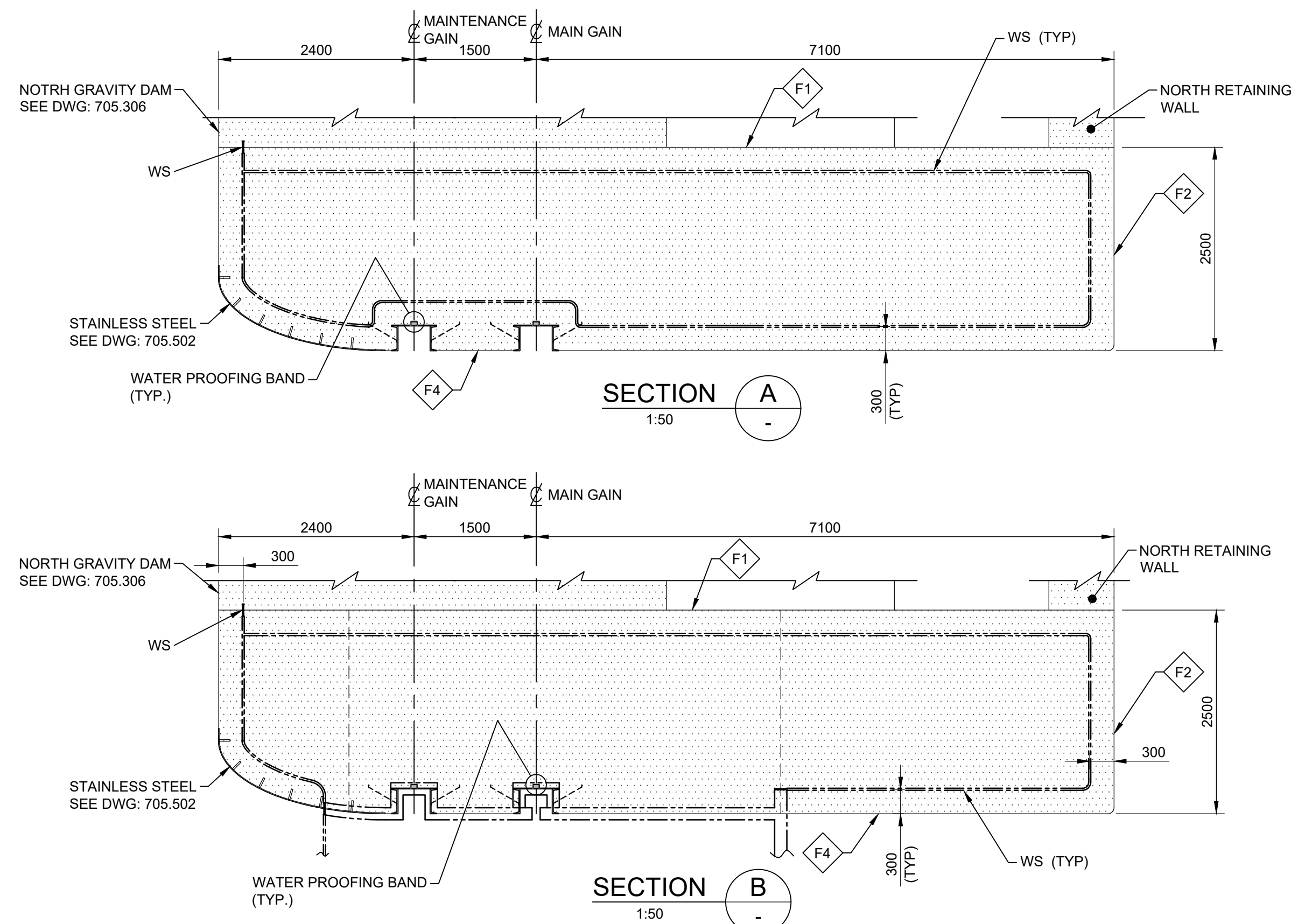
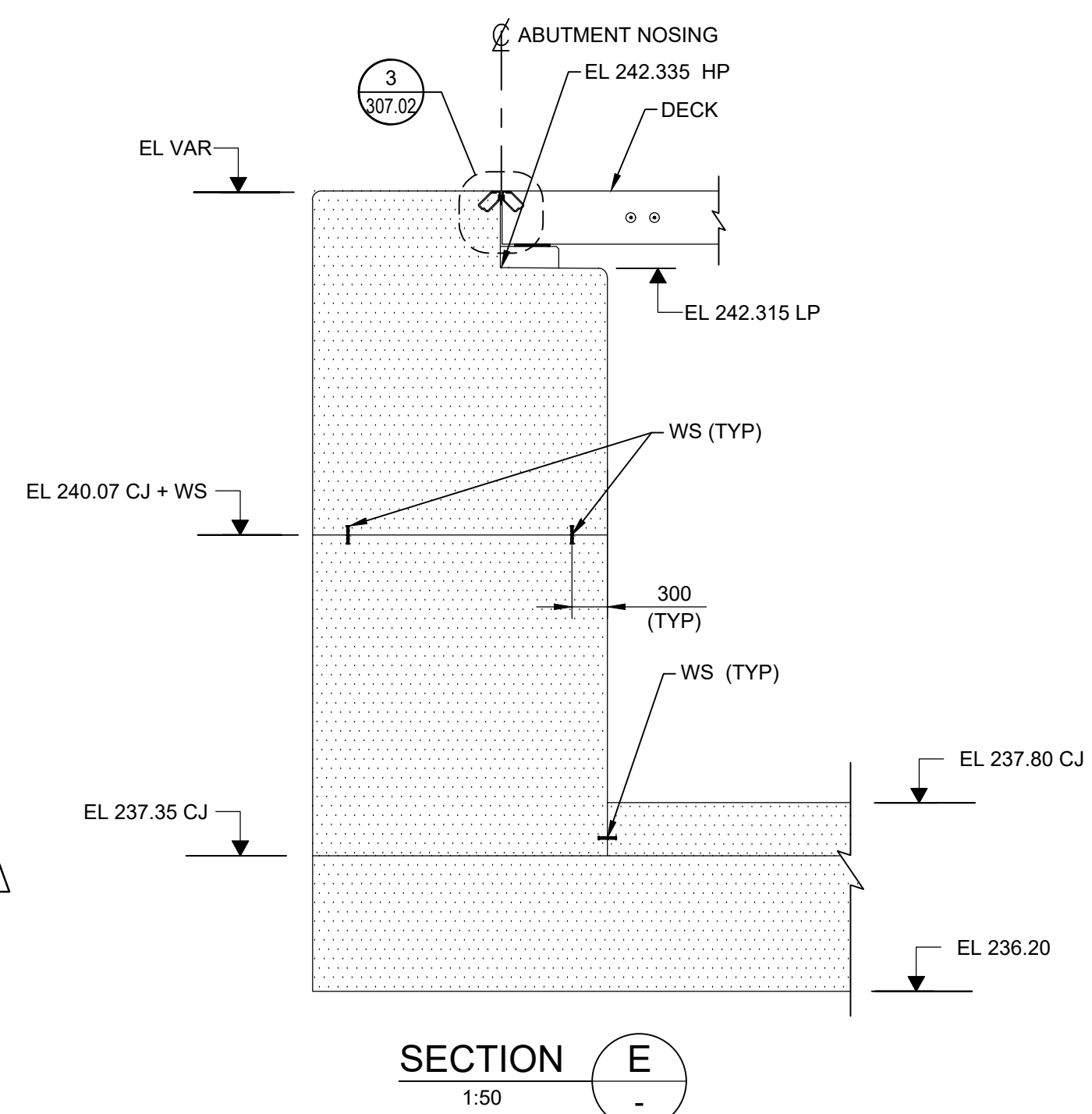
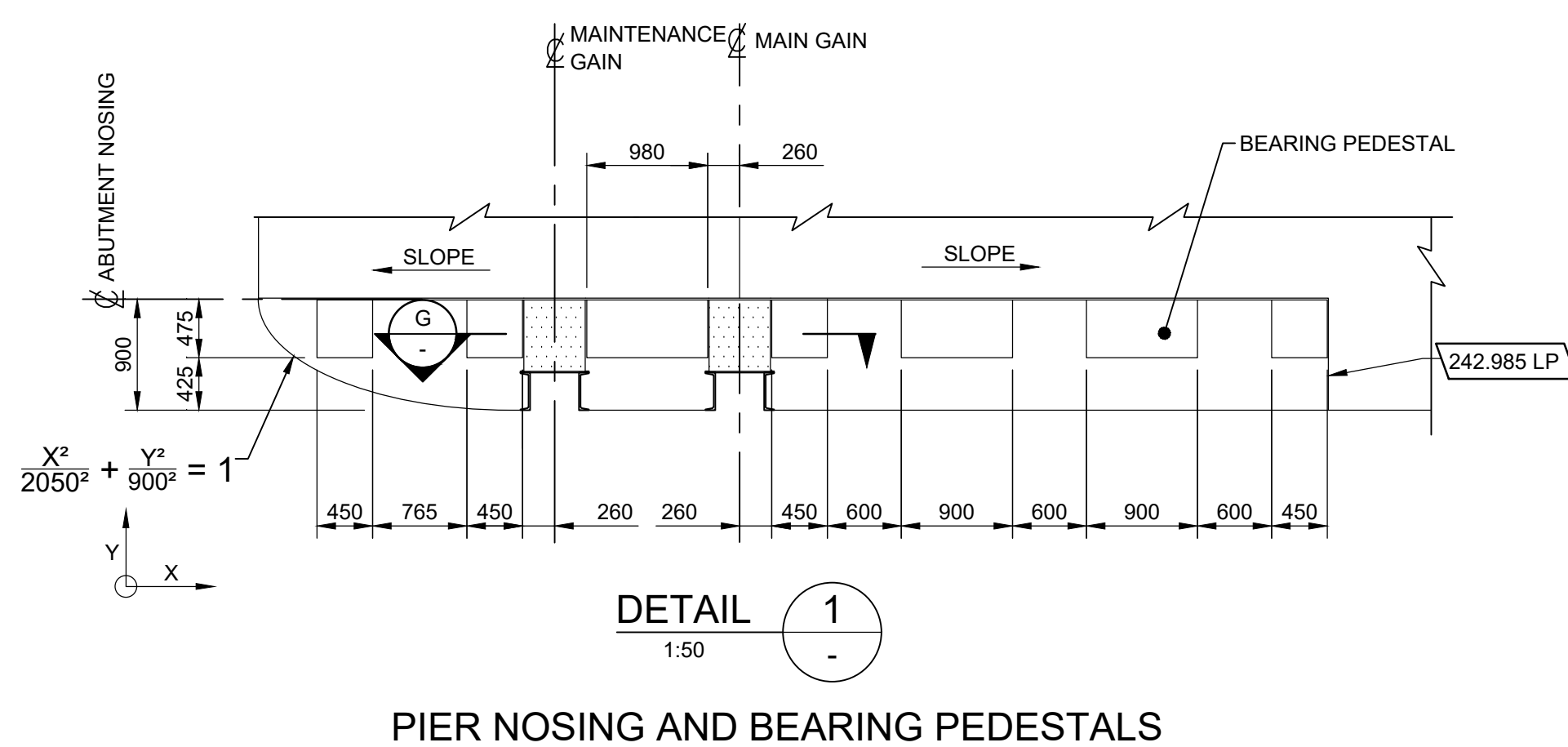
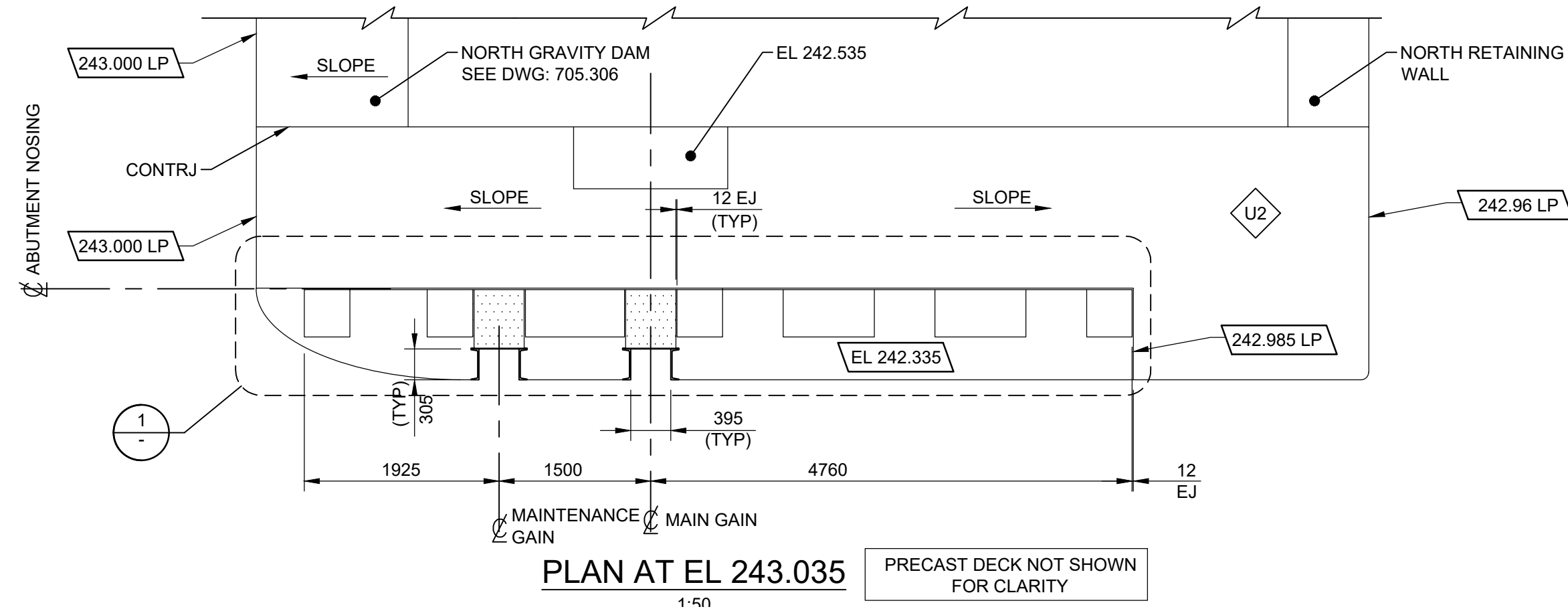
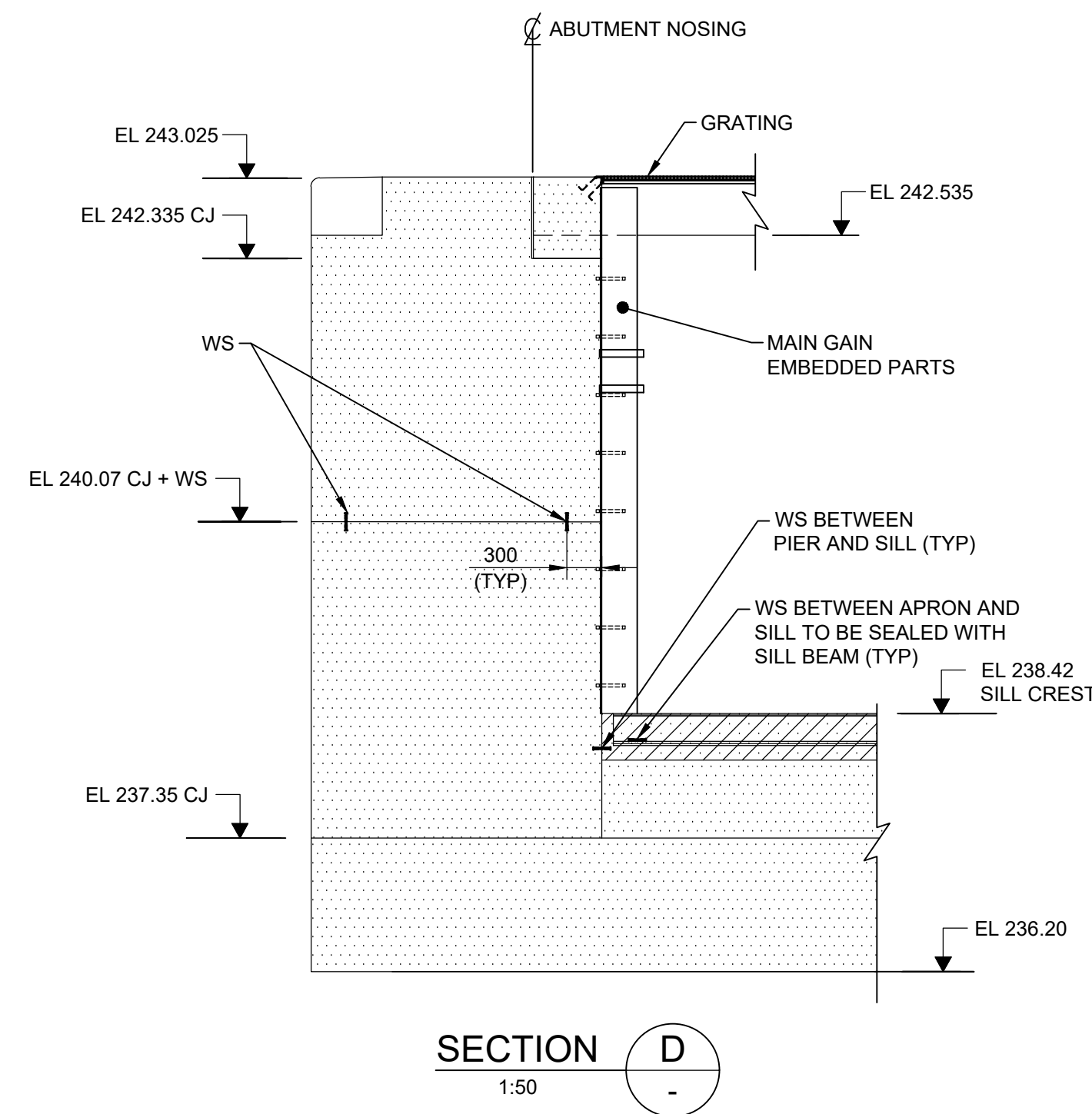
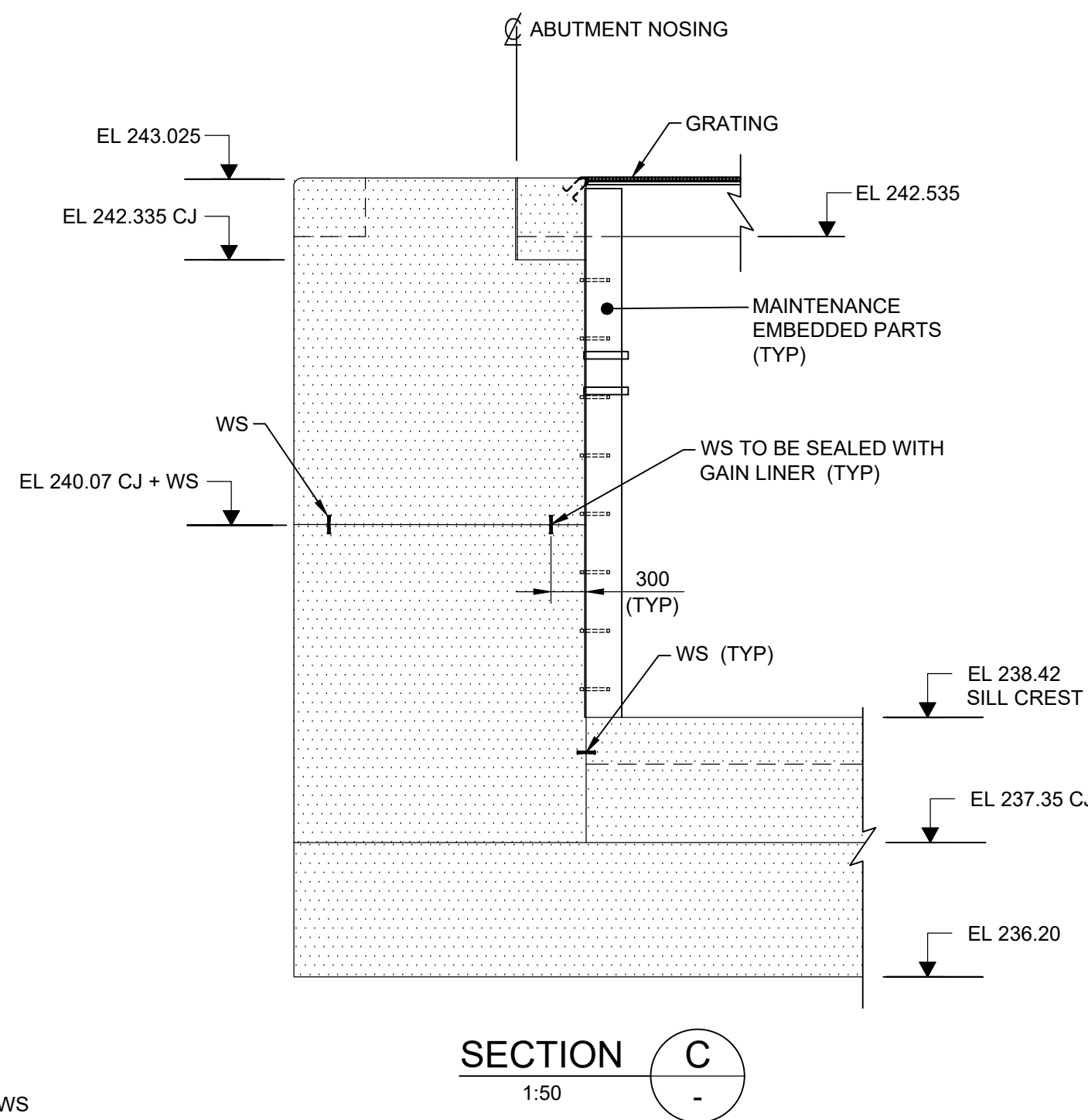
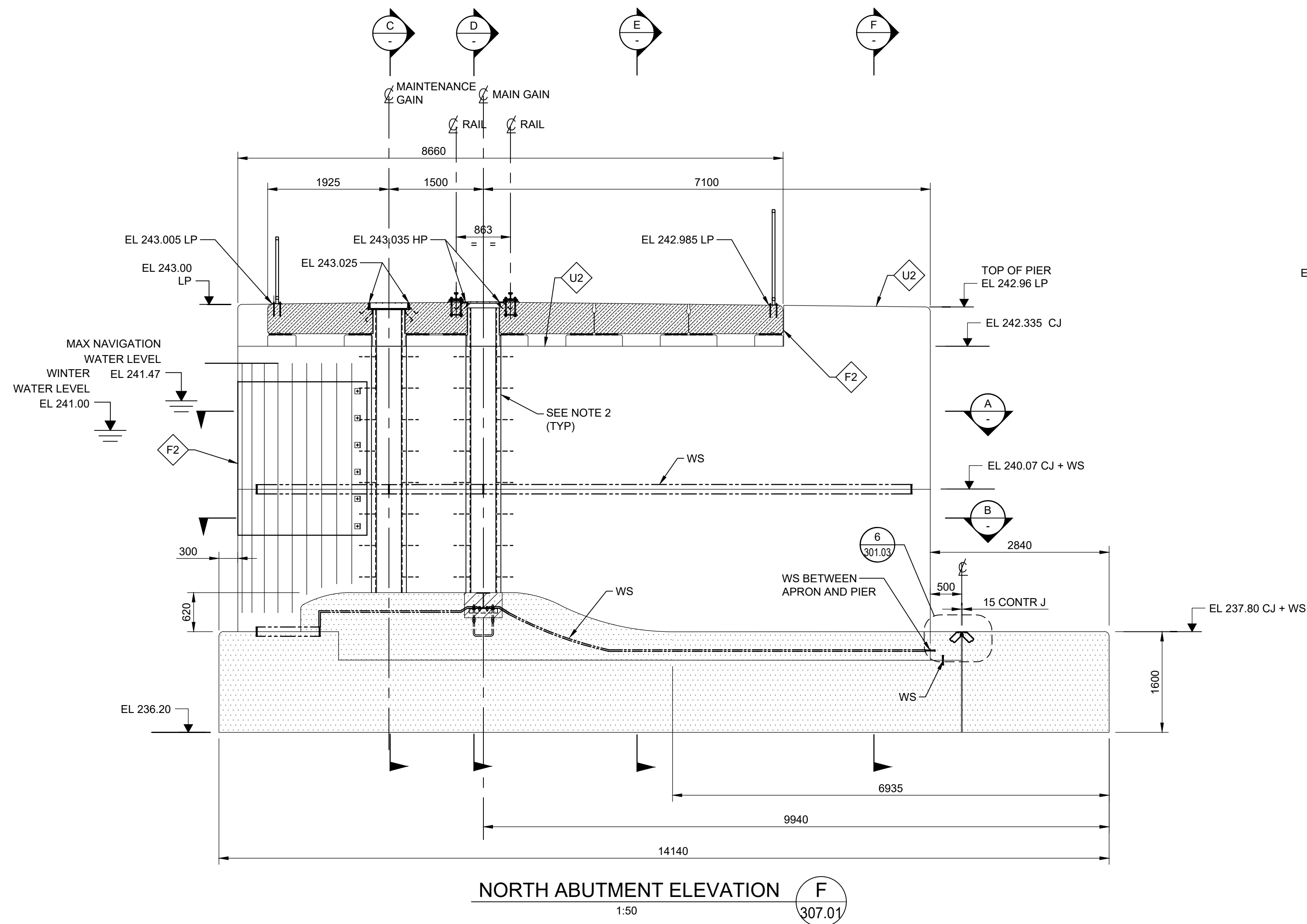
A Detail number
Numéro du détail

B Location dwg. number
Numéro sur dessin

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

CONCRETE
SOUTH ABUTMENT
PLAN, ELEVATION,
SECTIONS AND DETAIL

Drawn by / Dessiné par		Designed by / Conçu par	
I. ZIECIK		M. SAIDOU P.Eng	
Verified by / Vérifié par		Approved by / Approuvé par	
R. MIGUEL P.Eng.		S. VITTECOQ P.Eng.	
Drawing Date / Date du dessin		Drawing Number / Numéro du Dessin	
05/13/2020		303	
Project Number / Numéro du projet		Sheet Egaille	
R.076951.705		1 of de 1	



Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	0304 0

- NOTES:
- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
 - FOR DETAILS OF MECHANICAL EMBEDDED PARTS IN FIRST AND SECOND PHASE CONCRETE, SEE DRAWINGS 600 TO 602.

No.	Description	By	Date
0	FOR TENDER	R.M	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

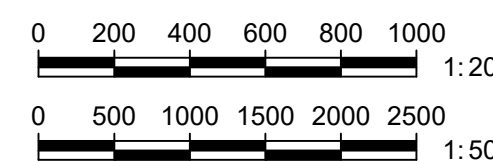
Project title / Titre du projet

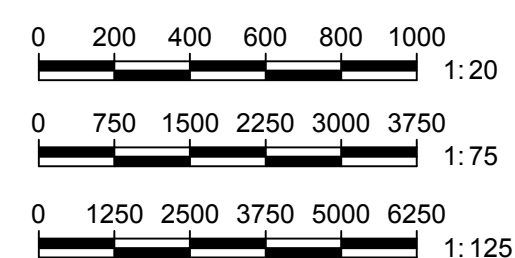
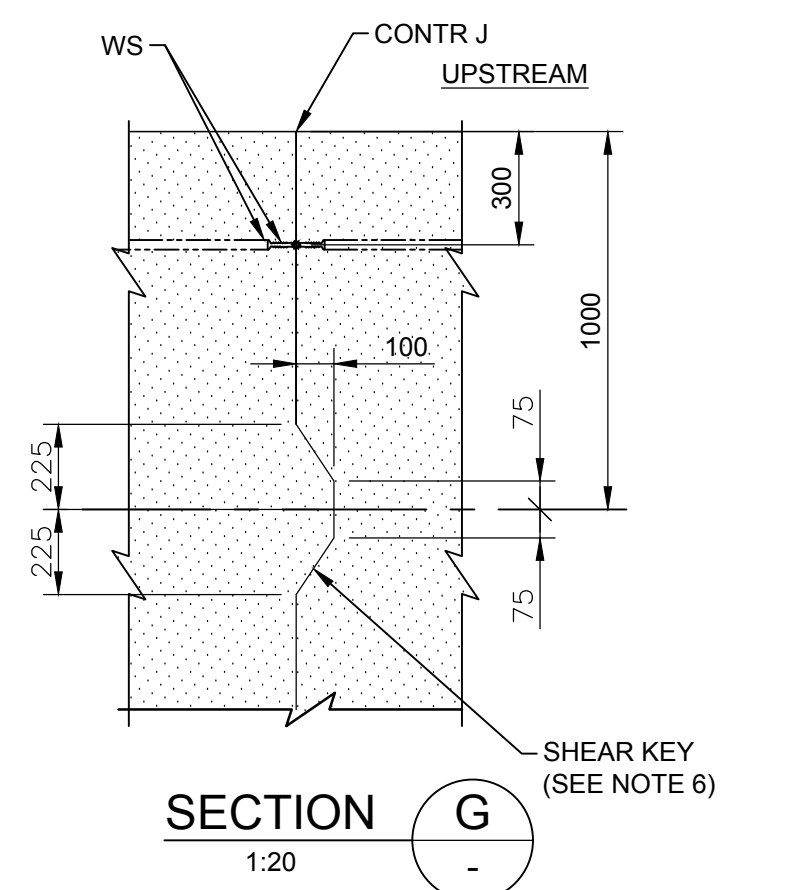
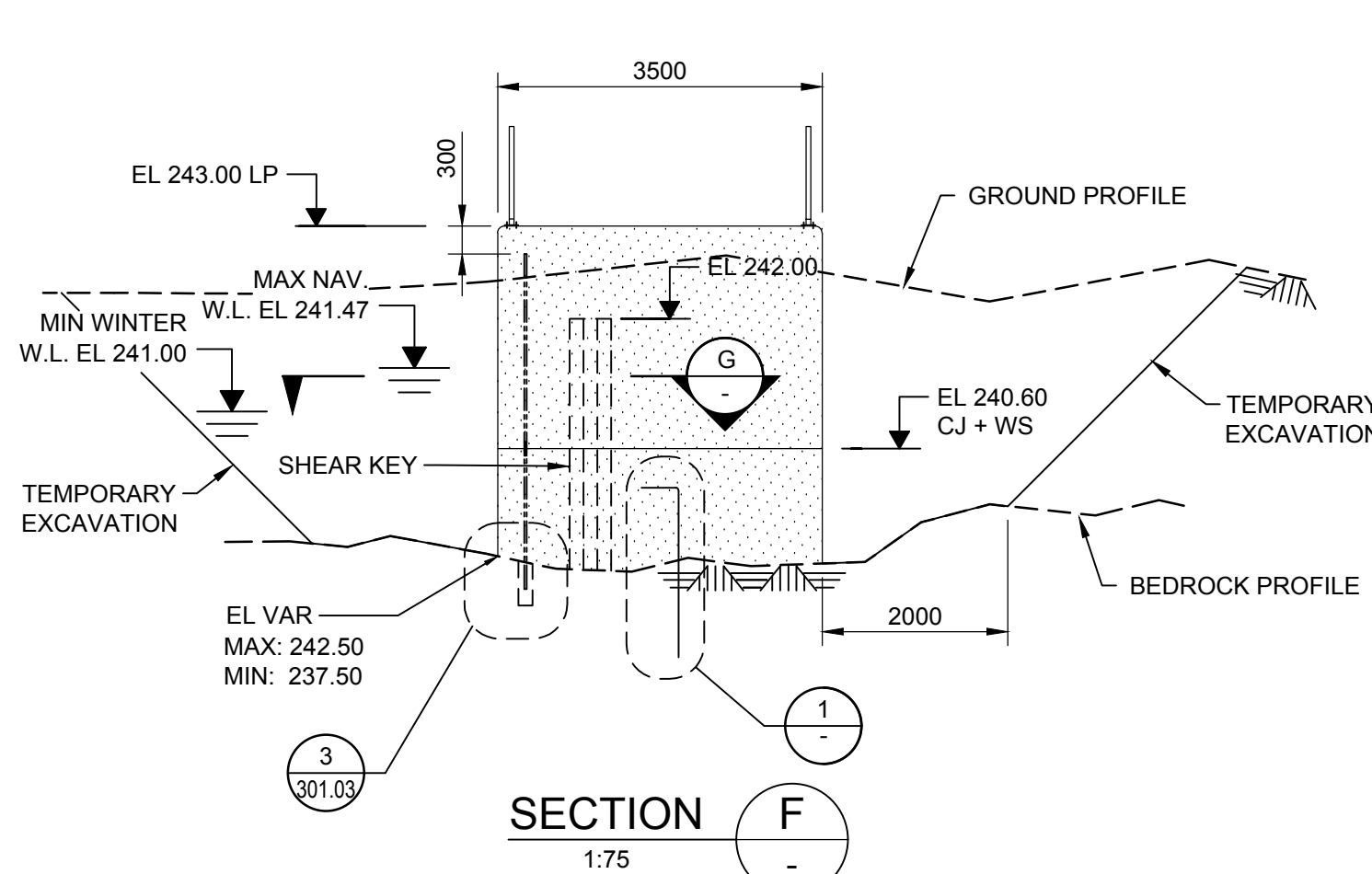
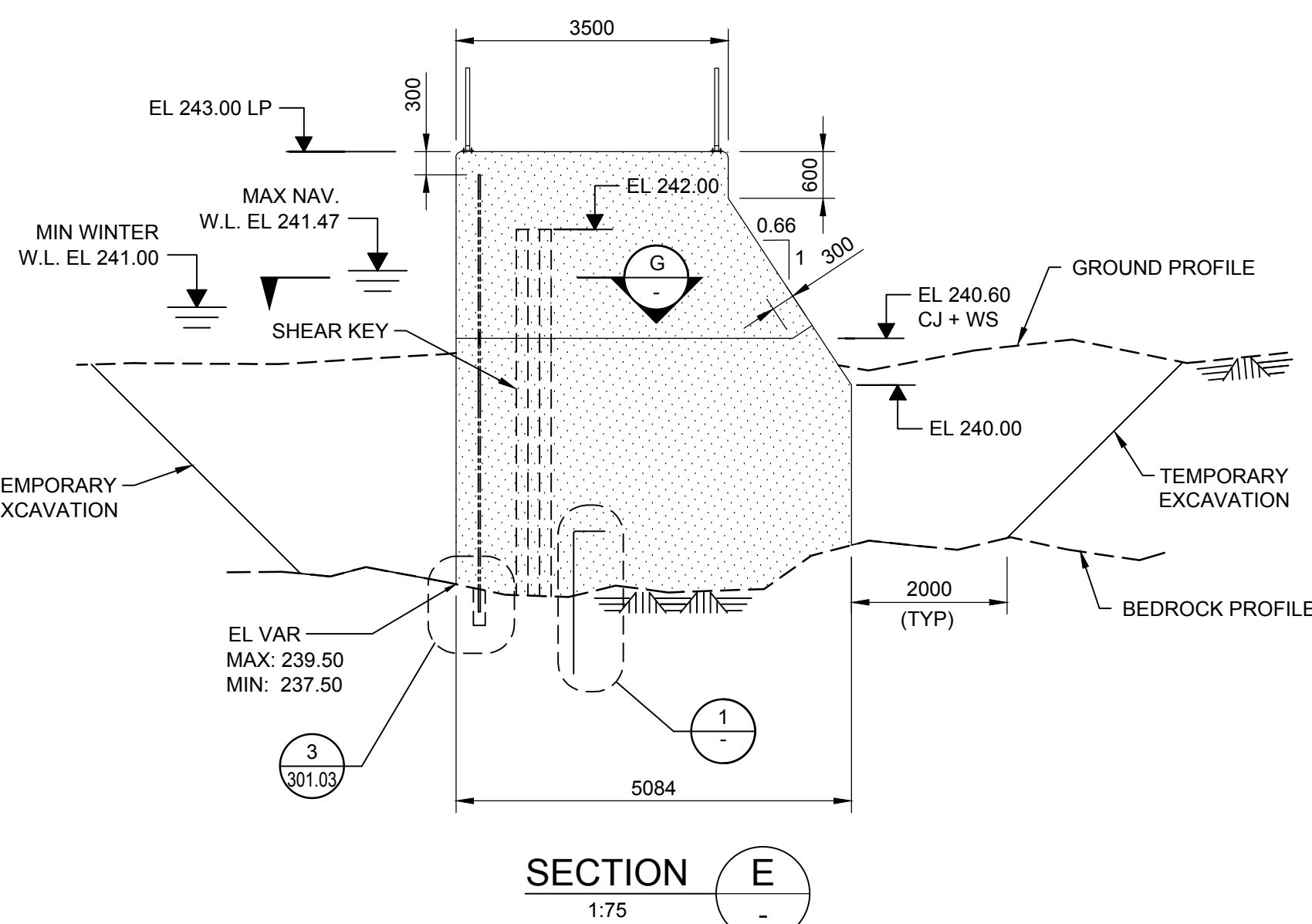
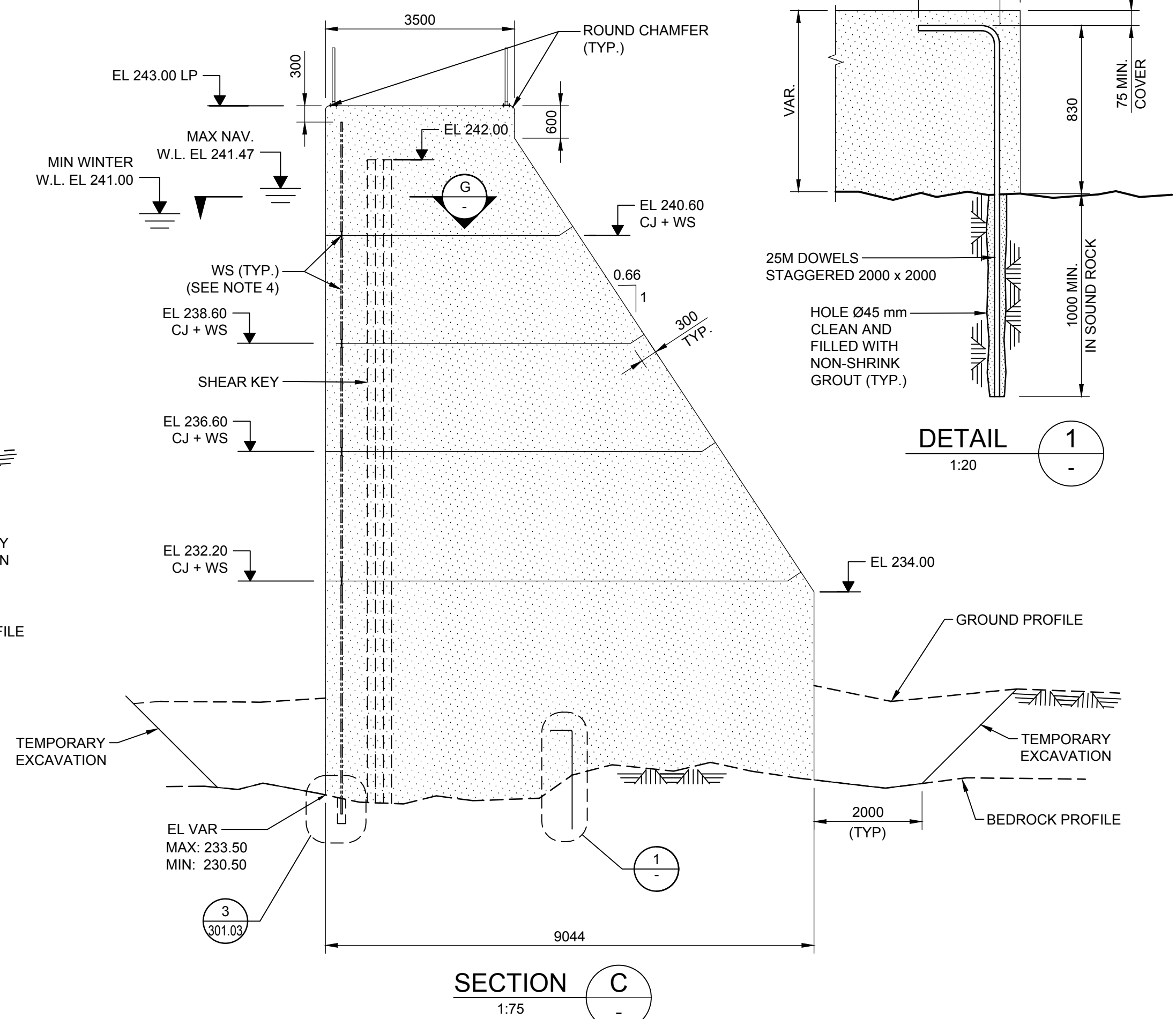
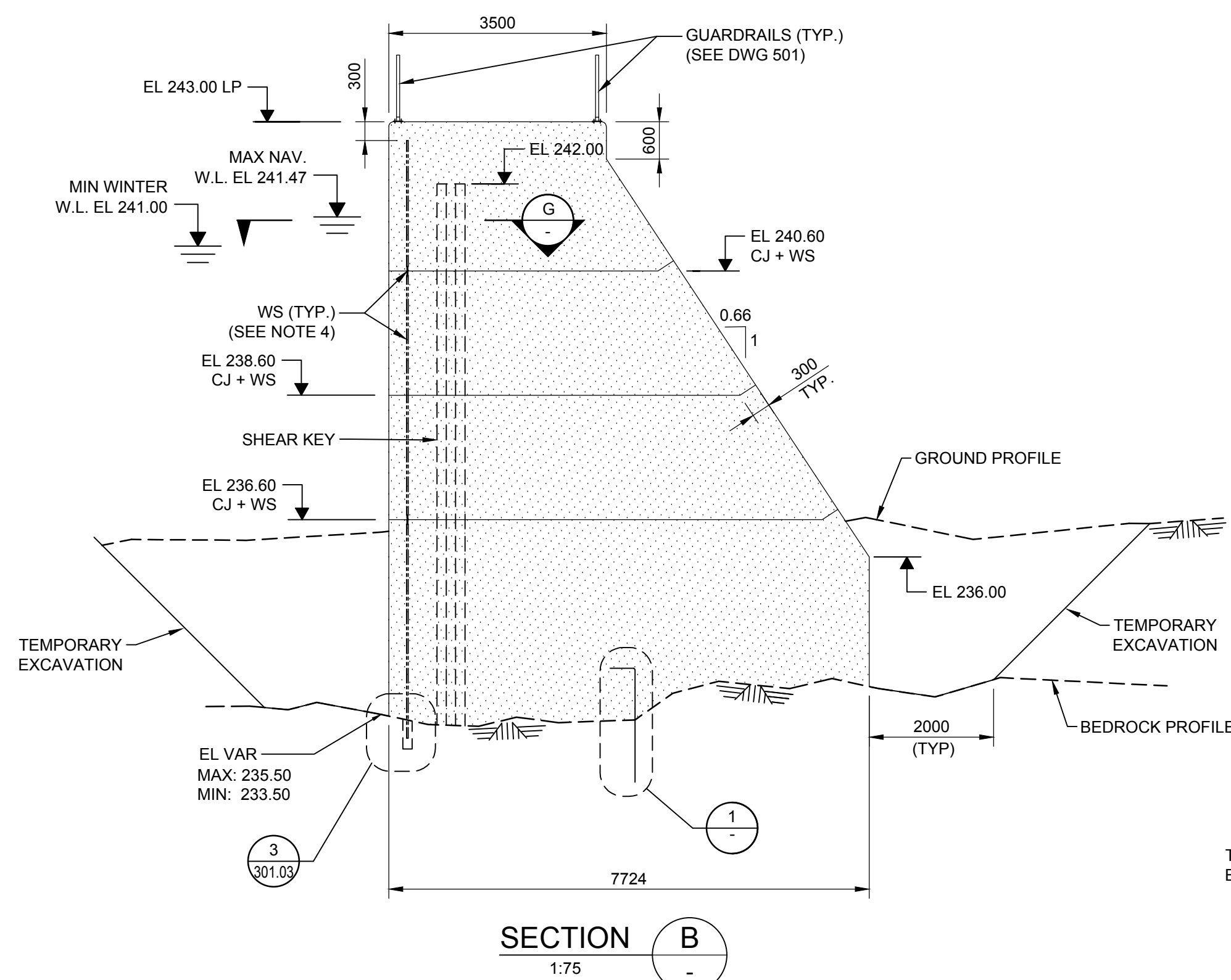
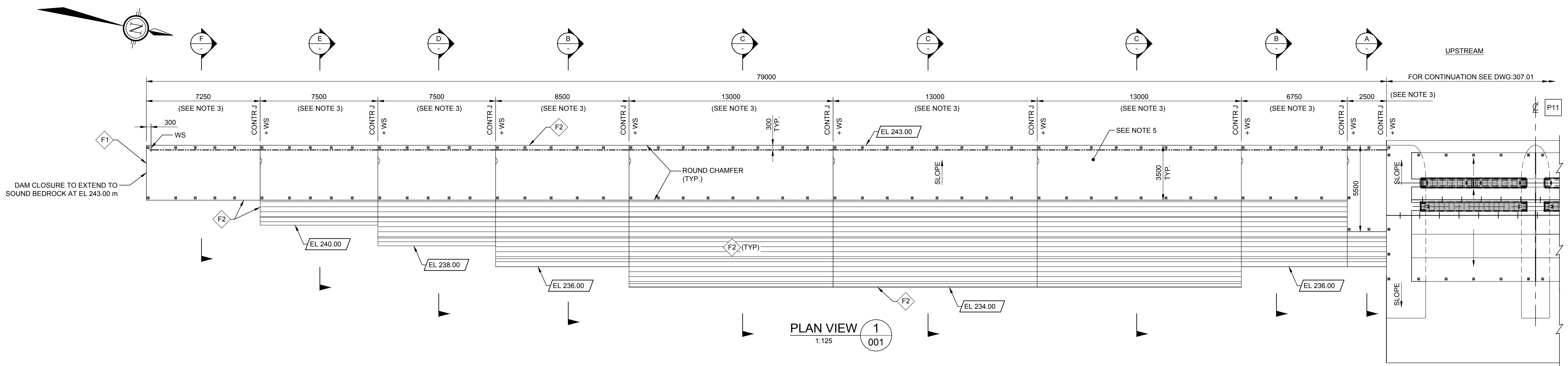
TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

Drawing title / Titre du dessin

CONCRETE
NORTH ABUTMENT
PLAN, ELEVATION
SECTIONS AND DETAIL


Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par R. MIGUEL	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 304	Sheet Feuille 1 of 1
Project Number / Numéro du projet R.076951.705		





1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
2. TOP OF DAM TO BE SUITABLY SLOPED TO MATCH SILLWAY DECK.
3. LOCATION OF CONTROL JOINTS AND DAM GEOMETRY TO BE COORDINATED WITH THE D.R. ACCORDING TO BEDROCK FOUNDATION ELEVATIONS.
4. ALL CONTROL AND CONSTRUCTION JOINTS TO HAVE CONTINUOUS WATERSTOP.
5. CONCRETE FINISH OF CREST SURFACE AS PER SPECIFICATION 03 35 00.
6. SHEAR KEYS AT CONTR J TO EXTEND FROM BEDROCK TO EL 242.00.

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

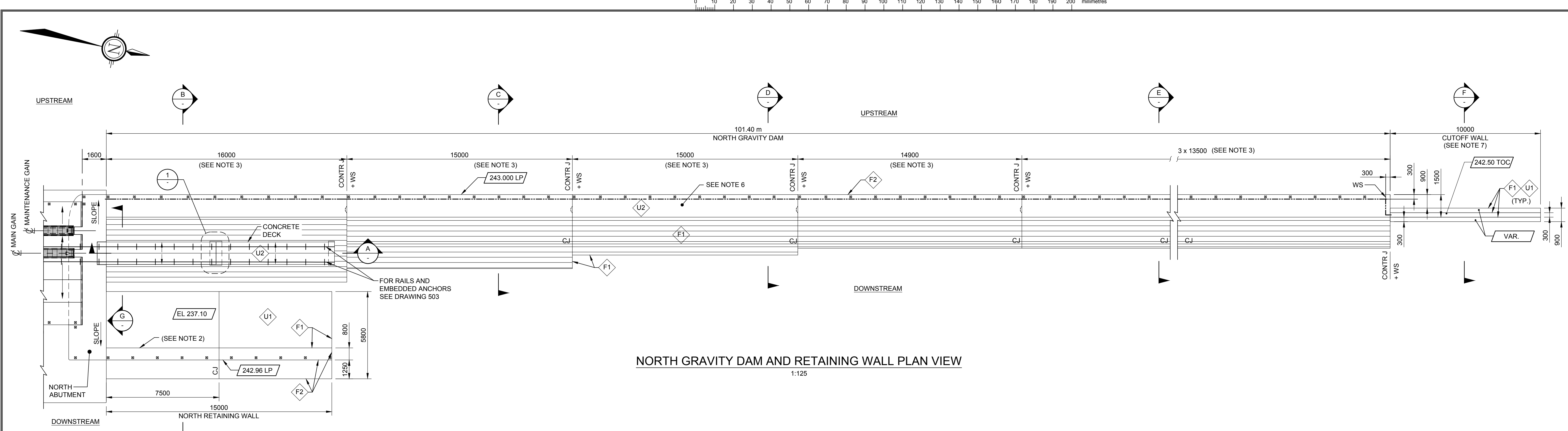
Project title / Titre du projet

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

Drawing title / Titre du dessin

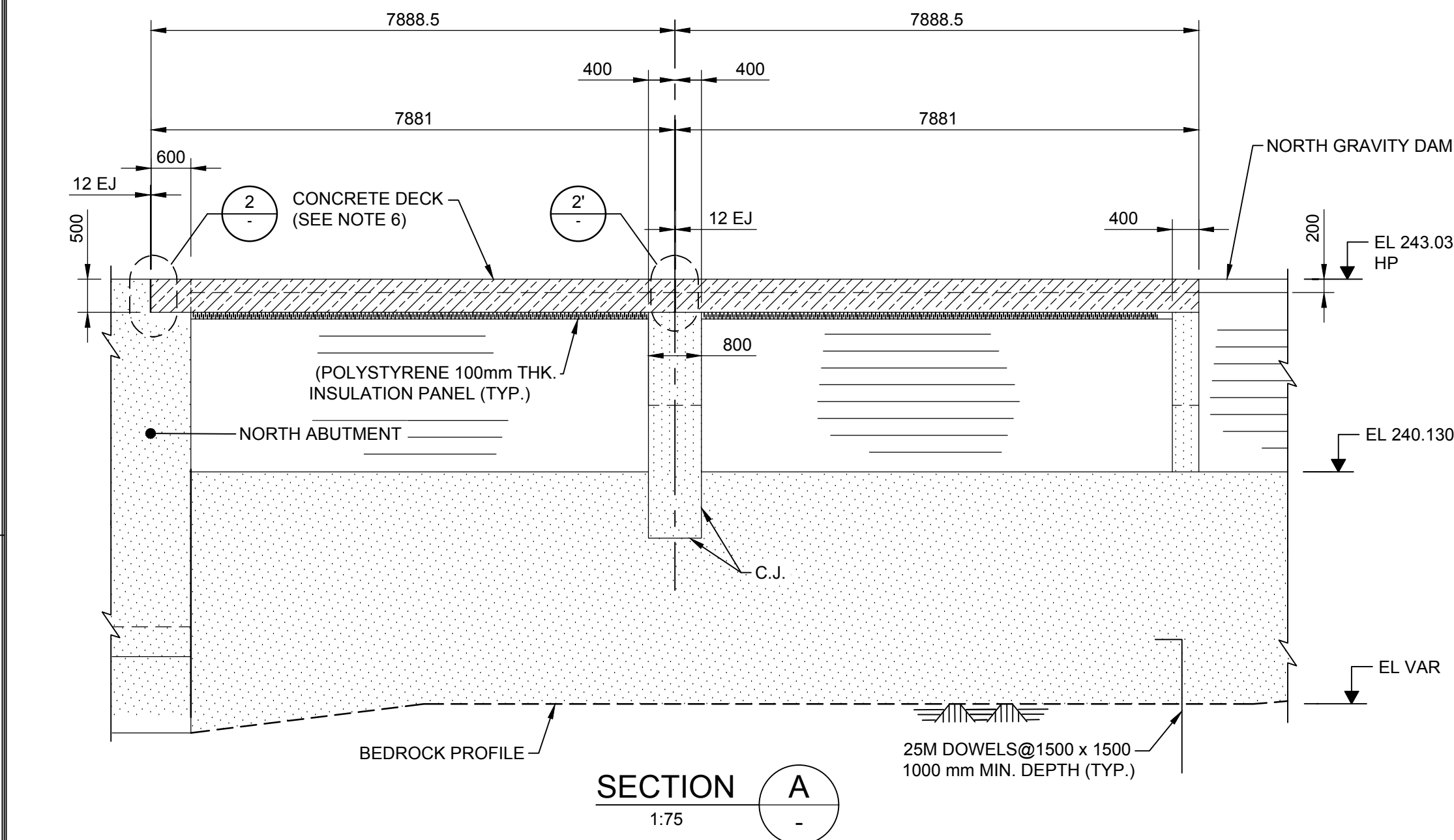
CONCRETE
SOUTH GRAVITY DAM
PLAN, SECTIONS AND DETAIL

Drawn by / Dessiné par		Designed by / Conçu par	
H. BOIVIN		M. SAIDOU P.Eng.	
Verified by / Vérifié par		Approved by / Approuvé par	
R. MIGUEL P.Eng.		S. VITTECOQ P.Eng.	
Drawing Date / Date du dessin		Drawing Number / Numéro du Dessin	
05/13/2020		305	
Project Number / Numéro du projet		Sheet	
R.076951.705		Escale 1 of 1	



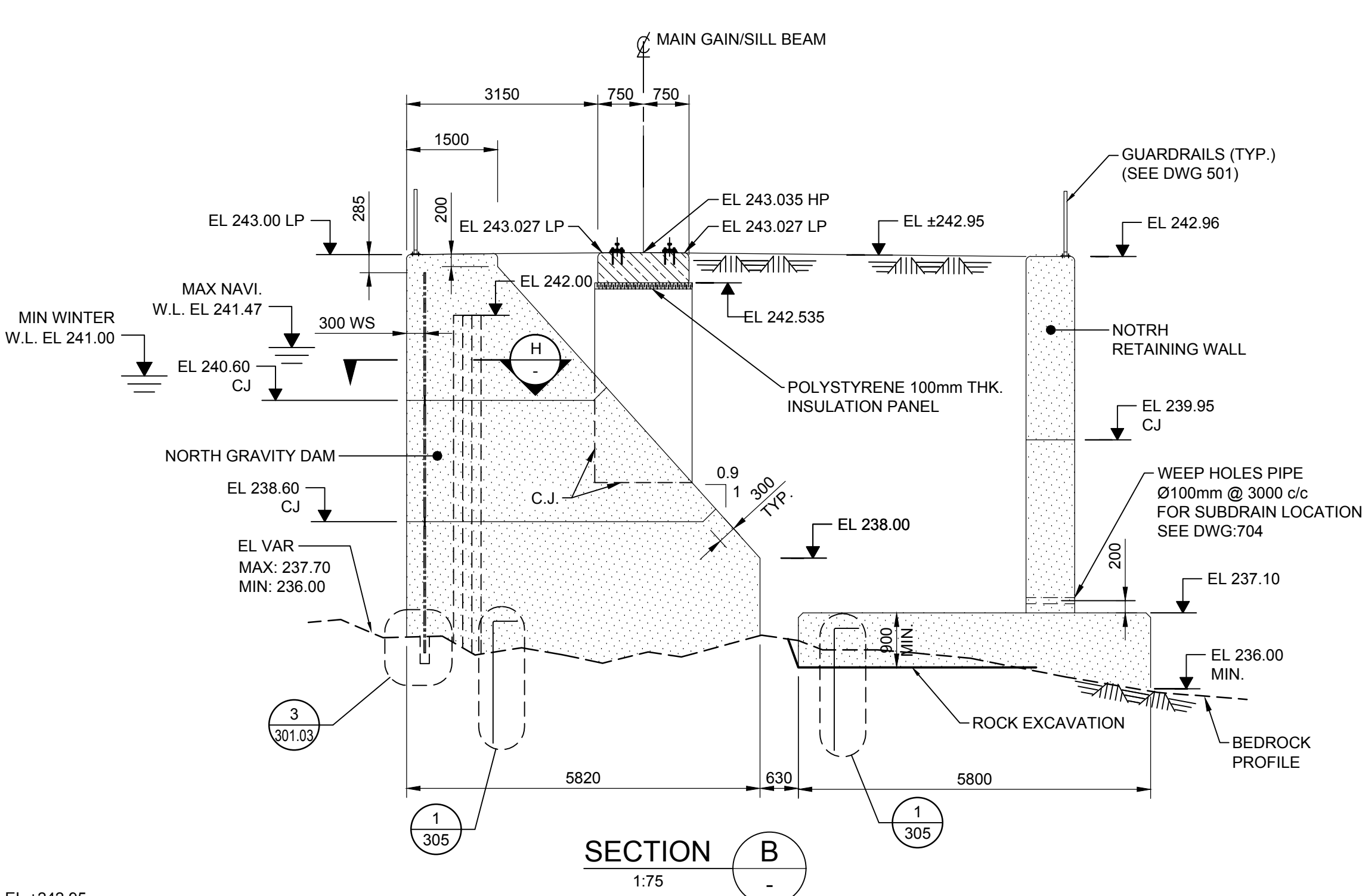
NORTH GRAVITY DAM AND RETAINING WALL PLAN VIEW

1:125



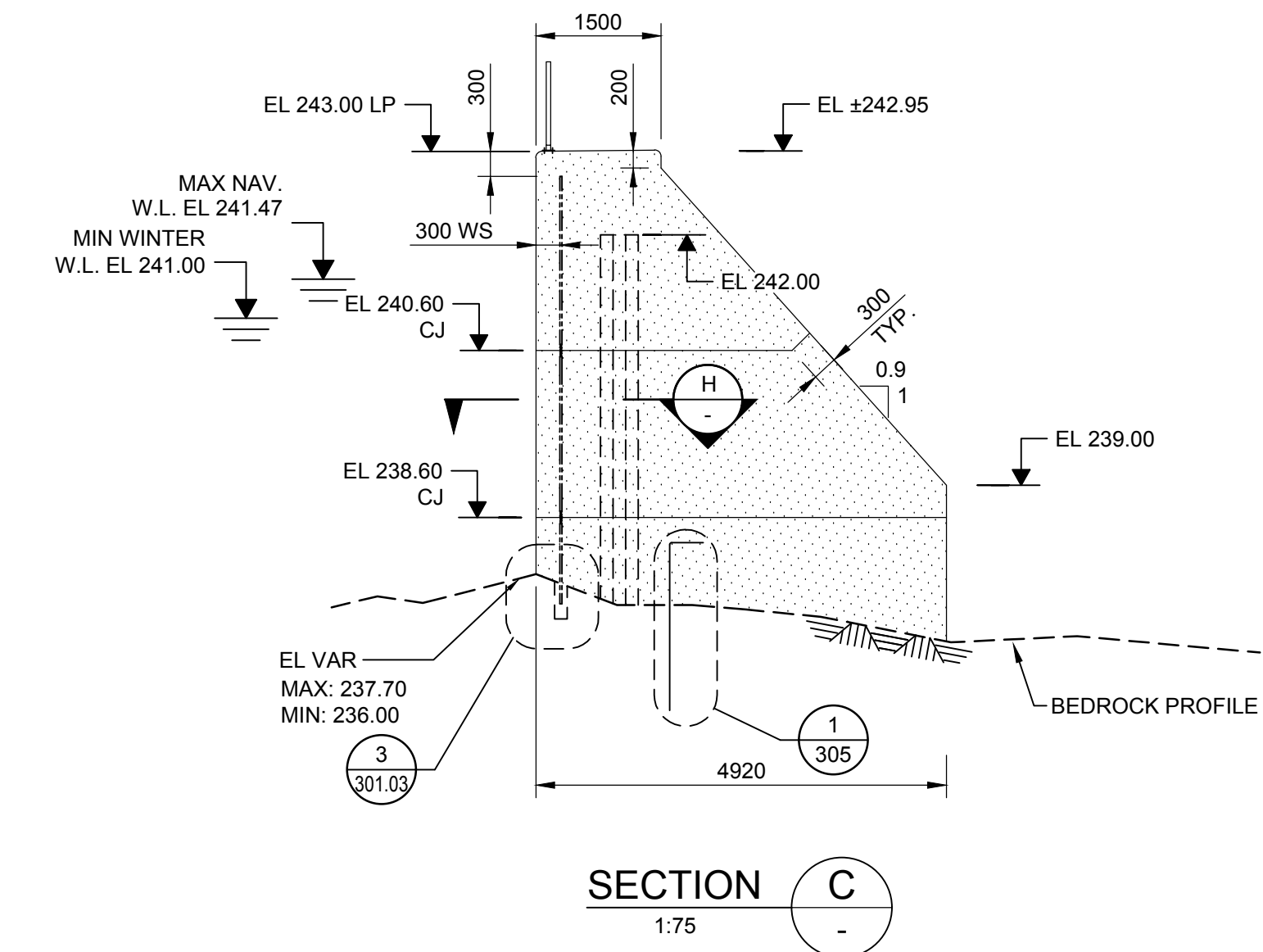
SECTION A

1:75



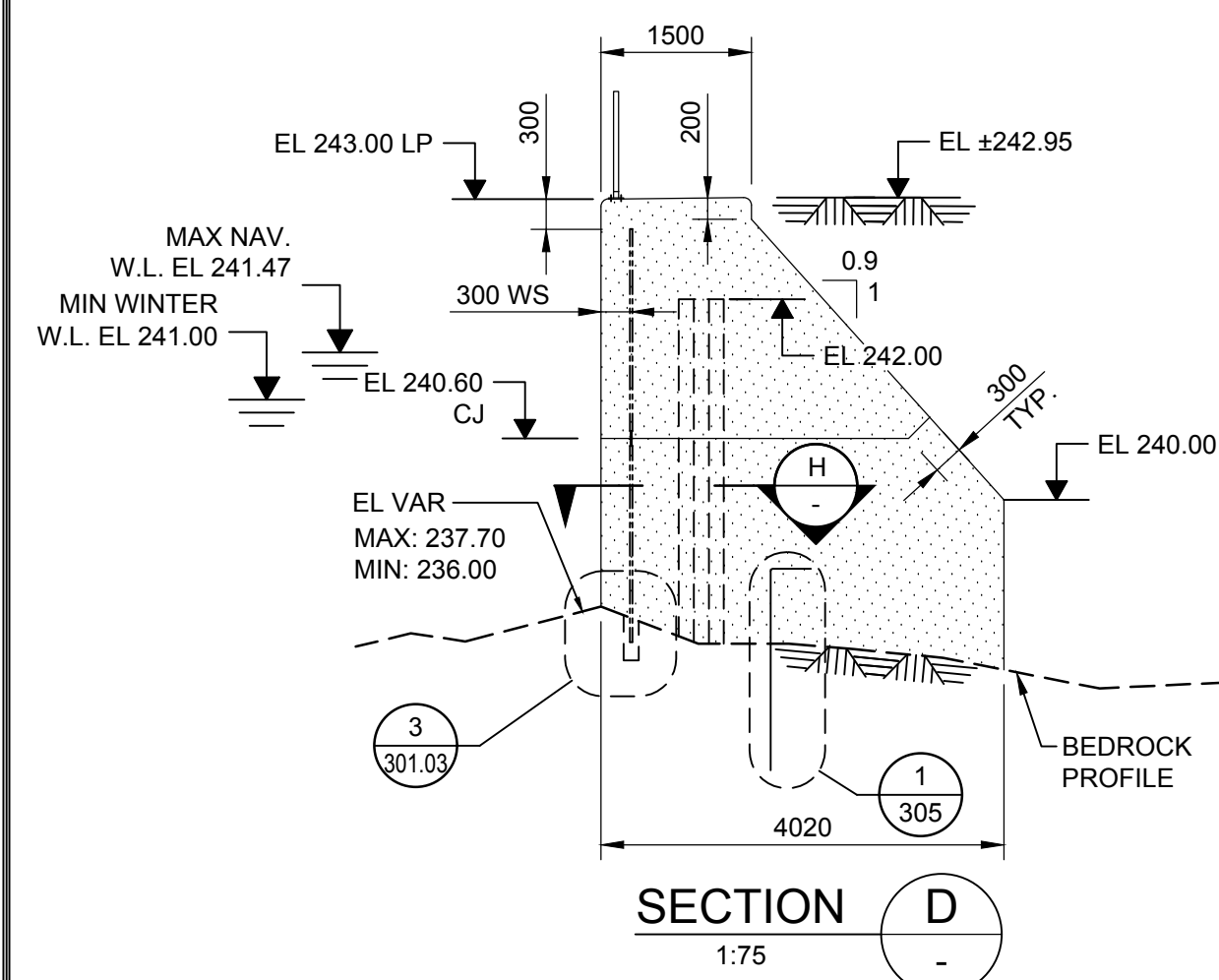
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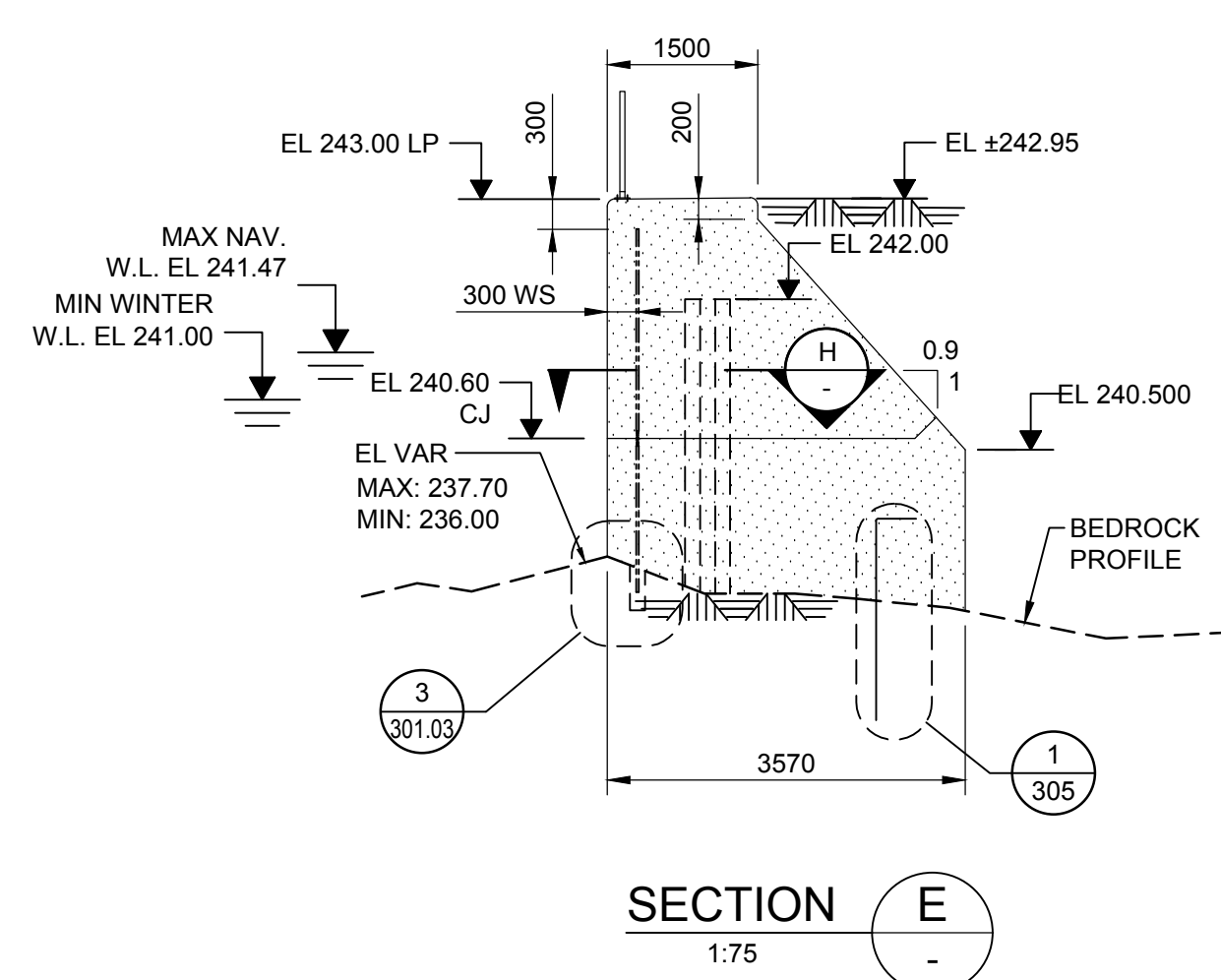
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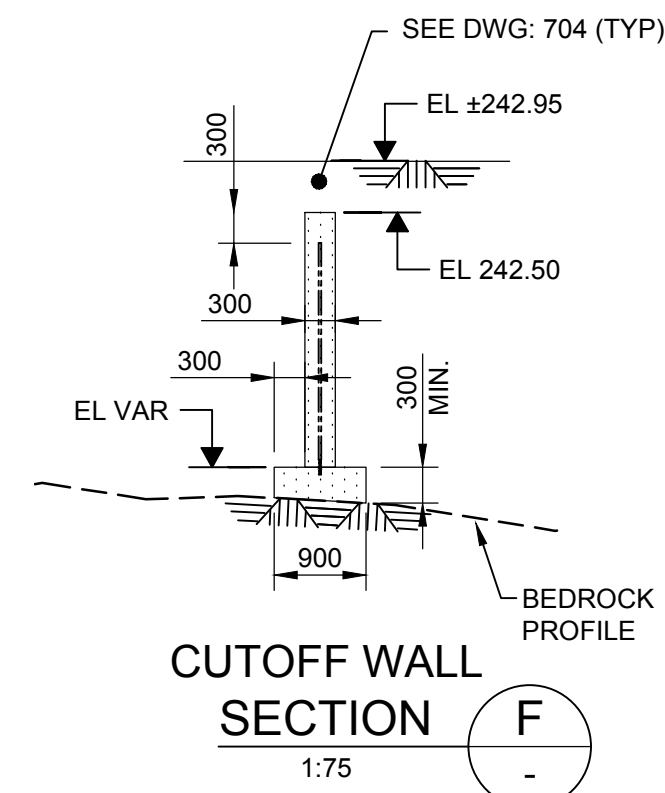
SECTION D

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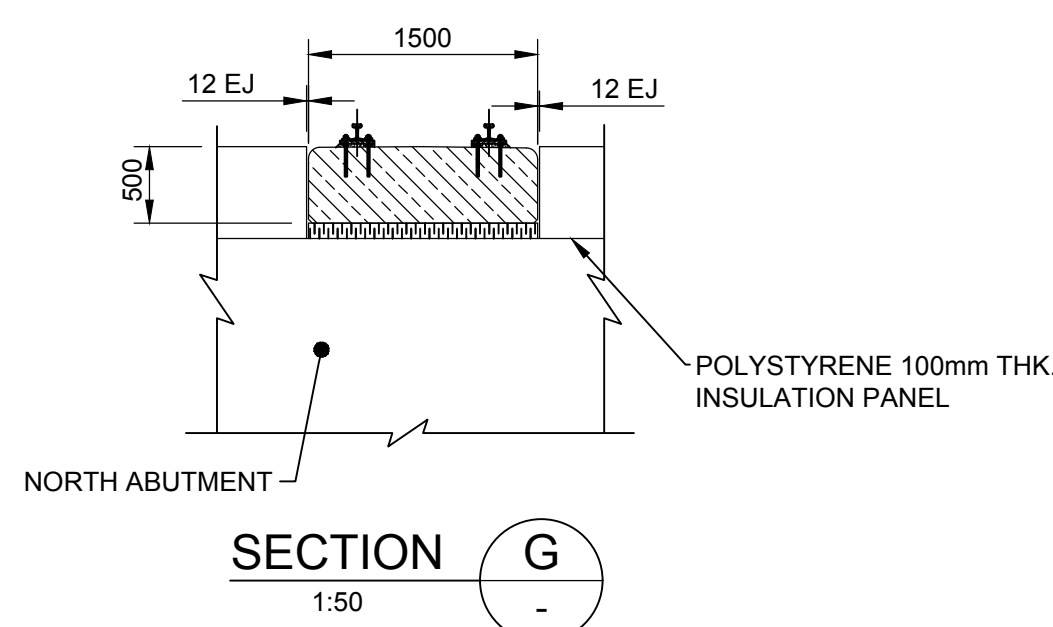
SECTION E

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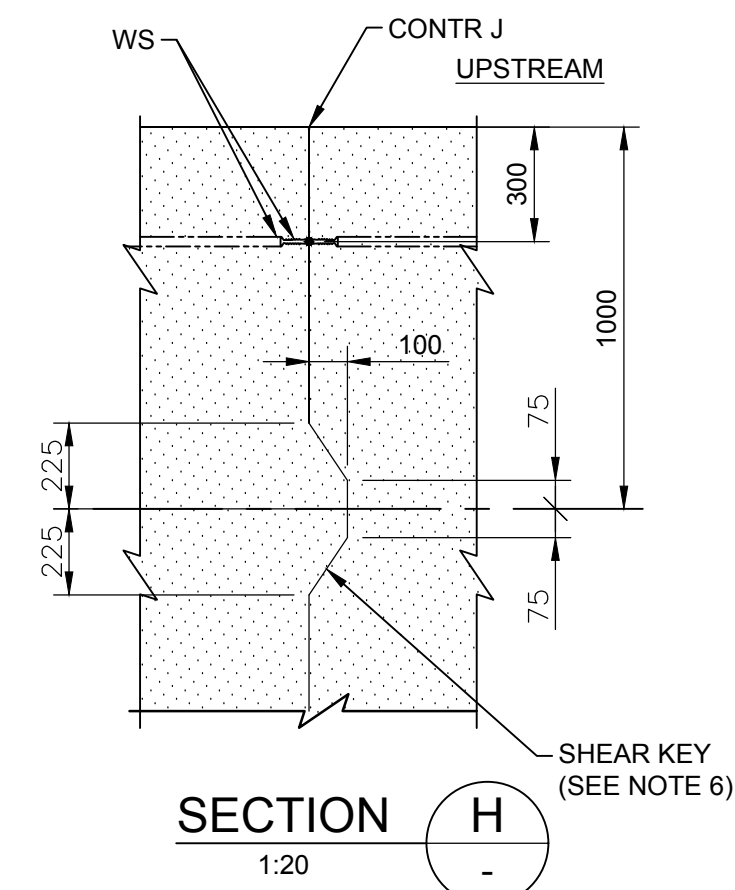
SECTION F

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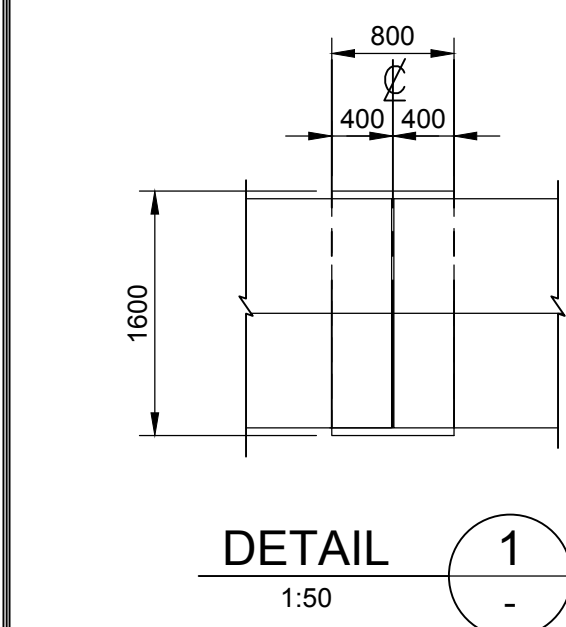
SECTION G

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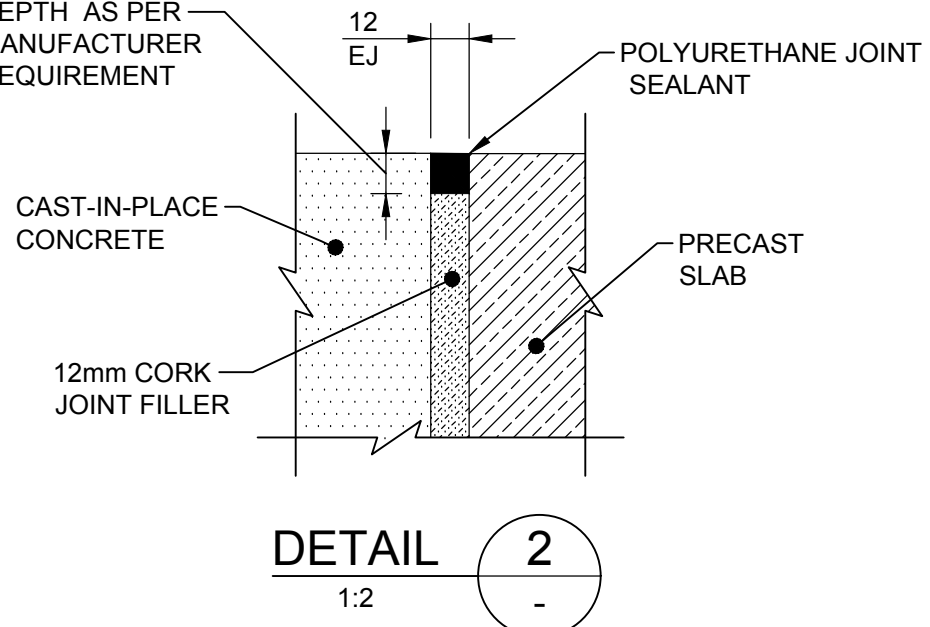
SECTION H

1:20



DETAIL 1

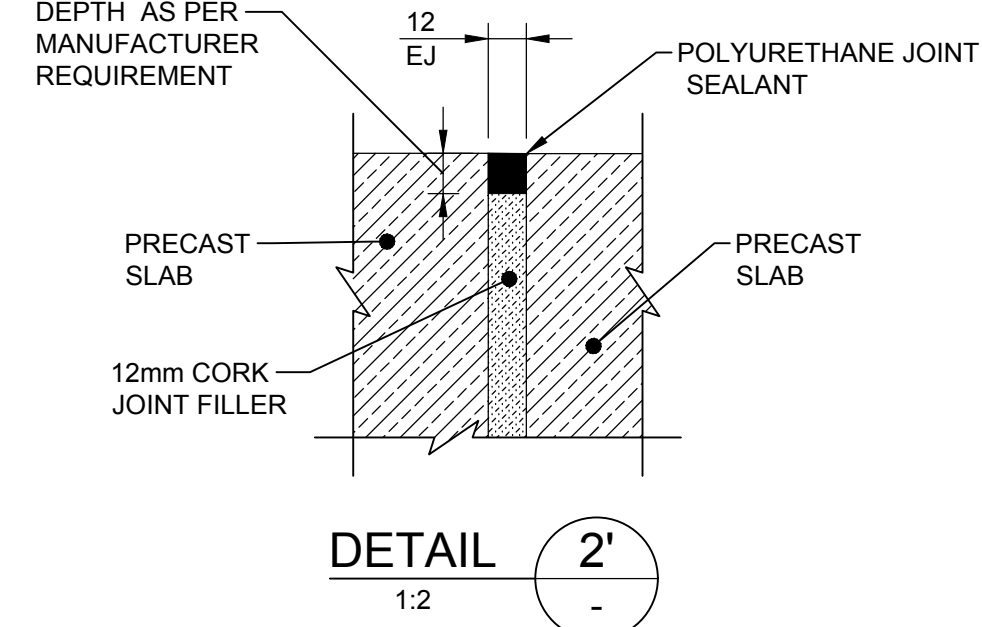
1:50



DETAIL 2

1:2

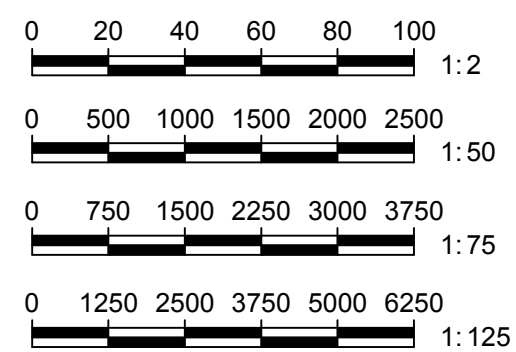
(12mm EXPANSION JOINT BETWEEN PRECAST SLAB AND CAST-IN-PLACE CONCRETE)



DETAIL 2'

1:2

(12mm EXPANSION JOINT BETWEEN PRECAST SLABS)



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. HS00243 Drawing Code 210 Serial 41DD Rev. 0306 0

NOTES:

- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
- TOP OF DAM TO BE SUITABLY SLOPED TO MATCH SPILLWAY DECK.
- LOCATION OF CONTROL JOINTS AND DAM GEOMETRY TO BE COORDINATED WITH THE D.R. ACCORDING TO BEDROCK FOUNDATION ELEVATIONS.
- ALL CONTROL AND CONSTRUCTION JOINTS TO HAVE CONTINUOUS WATER STOP.
- CONCRETE FINISH OF SURFACES SUPPORTING PRECAST DECK TO ALLOW FOR ADEQUATE LEVELING OF DECK SLABS.
- CONCRETE FINISH OF DECK AND CREST SURFACES AS PER SPECIFICATION 03 35 00.
- BACKFILL BOTH SIDES OF CUTOFF WALL SIMULTANEOUSLY, MAINTAINING A MAXIMUM HEIGHT DIFFERENTIAL OF 300mm.

0	FOR TENDER	R.M	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 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

CONCRETE
NORTH GRAVITY DAM
PLAN, SECTIONS AND DETAILS

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU	P.Eng.
Verified by / Vérifié par R. MIGUEL	Approved by / Approuvé par S. VITTECOQ	P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 306	
Project Number / Numéro du projet R.076951.705	Sheet Feuille	1 of 1

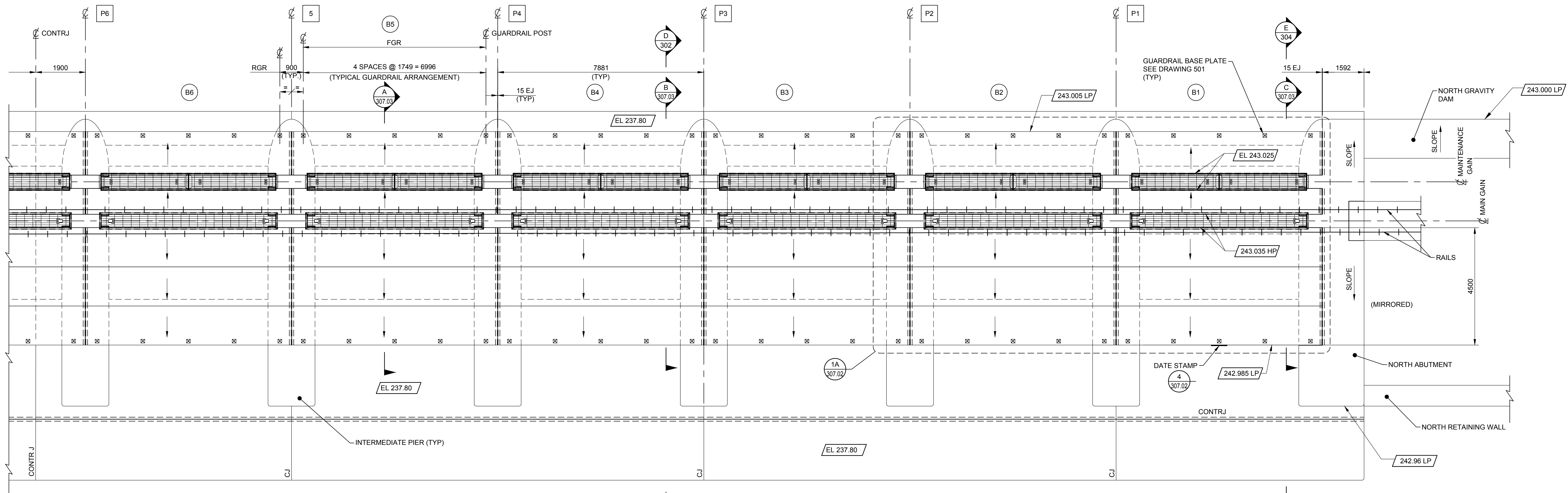
Canada

CIMA+

Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	1307
			0

NOTES:

- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
- CONTRACTOR SHALL DESIGN THE DECK AS PER SPECIFICATION SECTION 03 30 00.
- CONTRACTOR TO IDENTIFY DIMENSIONS OF PRECAST SLAB PANELS AS WELL AS LOCATION OF ALL REQUIRED EMBEDMENTS.
- CONTRACTOR TO PLAN PRECAST SLAB TO SUIT EMBEDMENT LOCATIONS.
- CONCRETE FINISH OF DECK SURFACE AS PER SPECIFICATION SECTION 03 35 00.
- DECK IS NOT DESIGNED TO ACCOMMODATE PUBLIC TRAFFIC. VEHICLE TRAFFIC ON DECK TO BE RESTRICTED TO SERVICE VEHICLES ONLY.

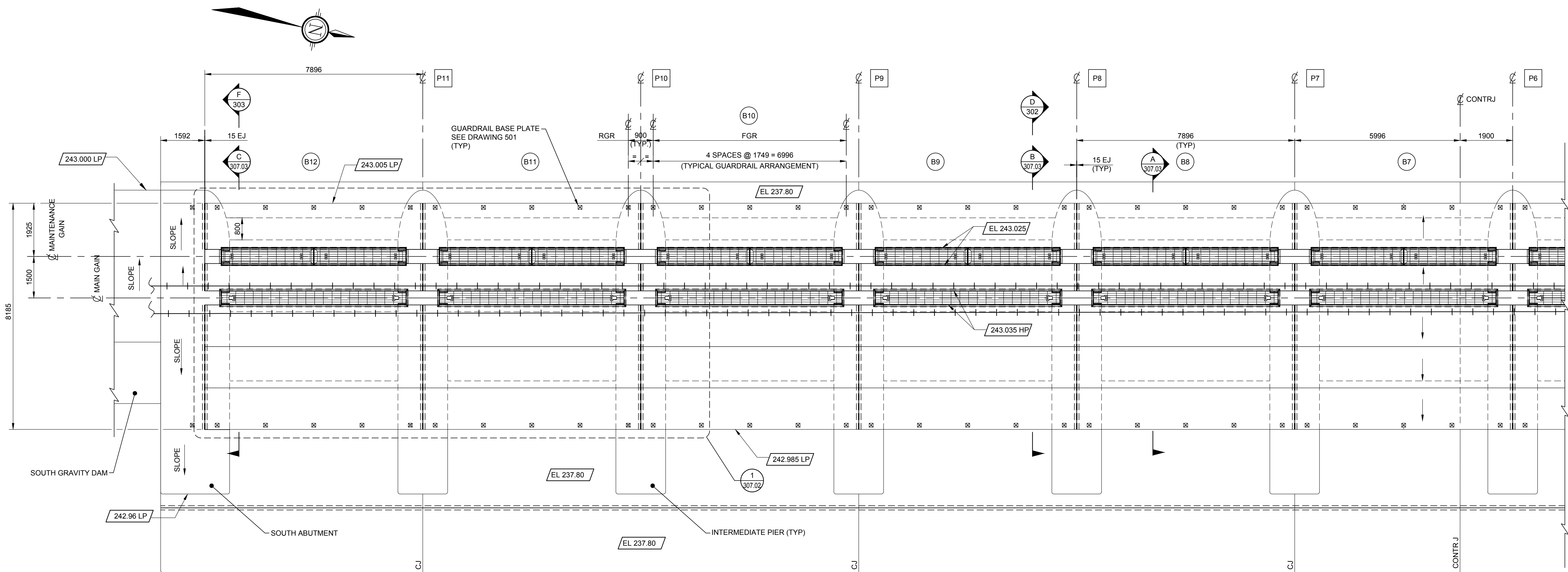


DECK PLAN

1:75

(SEE DRAWING 307.02 FOR PRECAST SLAB DETAILS)

LEGEND

RGR: REMOVABLE GUARDRAIL
FGR: FIXED GUARDRAIL

DECK PLAN (CONTINUED)

1:75

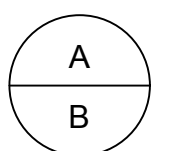
(SEE DRAWING 307.02 FOR PRECAST SLAB DETAILS)

LEGEND

RGR: REMOVABLE GUARDRAIL
FGR: FIXED GUARDRAIL

No.	Description	By	Date
0	FOR TENDER	R.M	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
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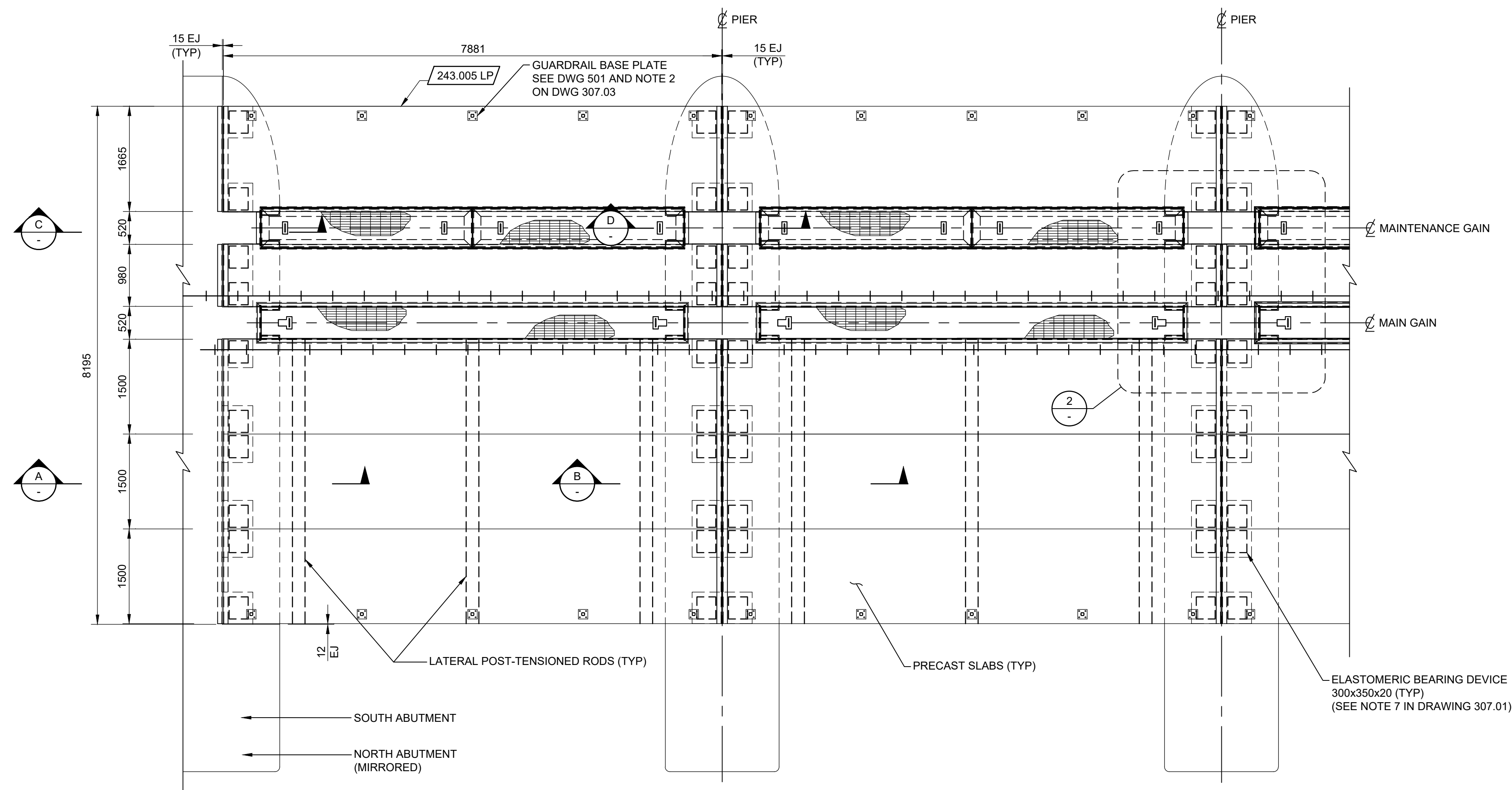
TRENT-SEVERN WATERWAY
DAM AT LOCK 28 - BURLEIGH FALLS
RECONSTRUCTION

Drawing title / Titre du dessin

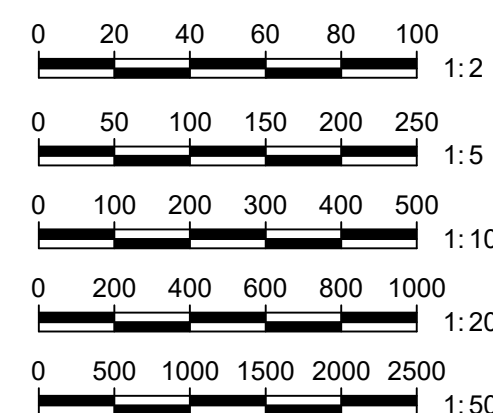
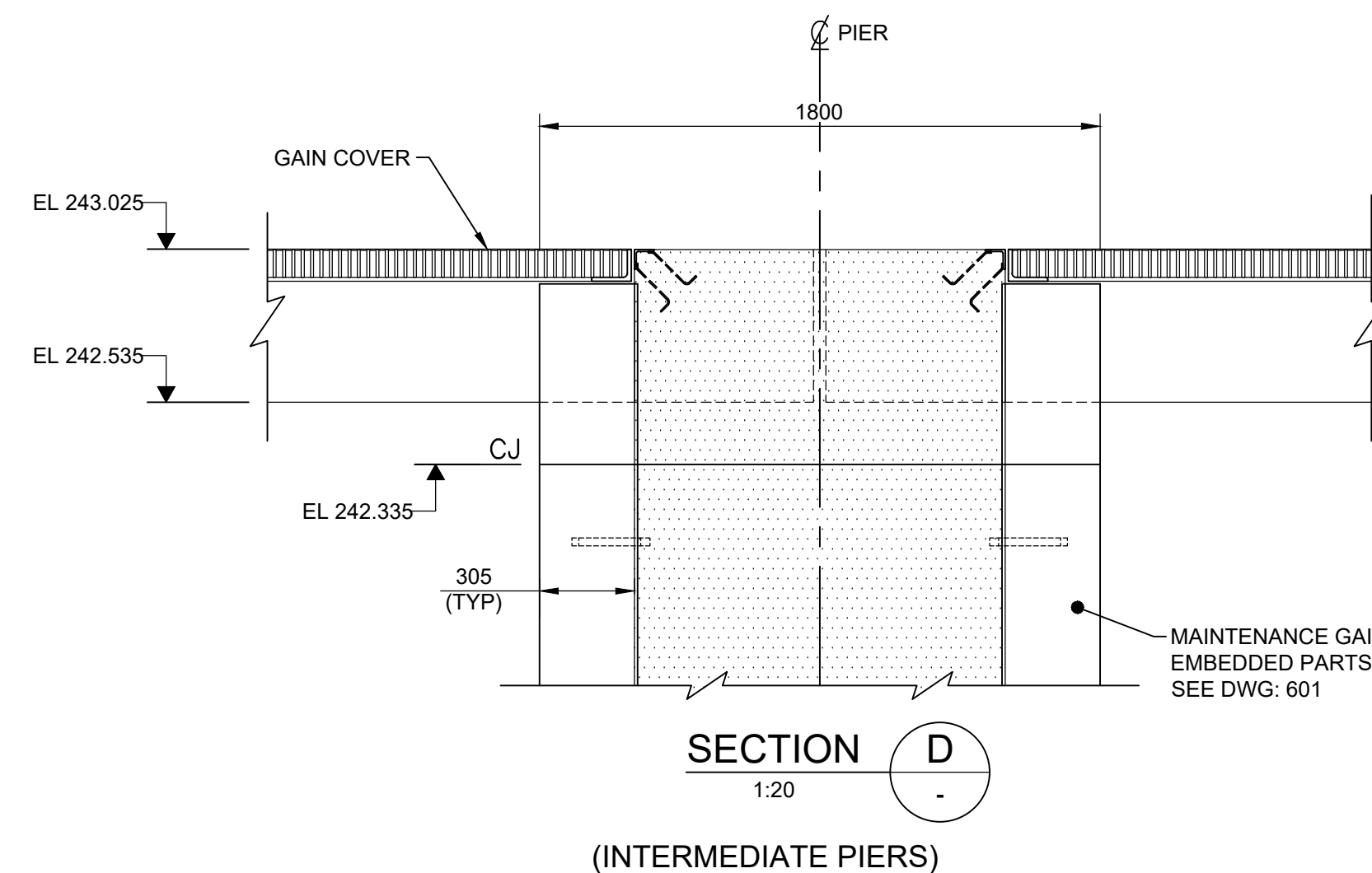
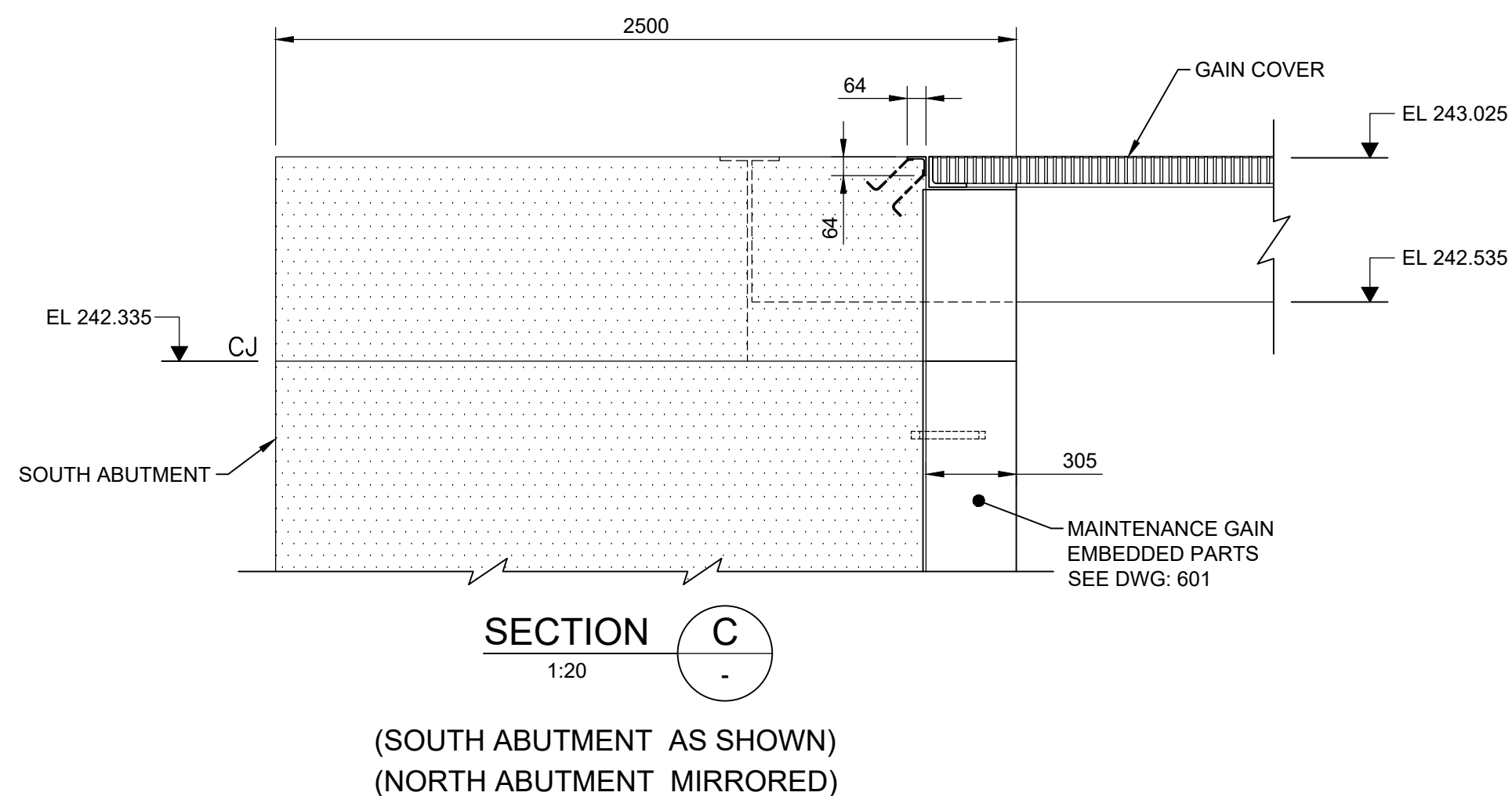
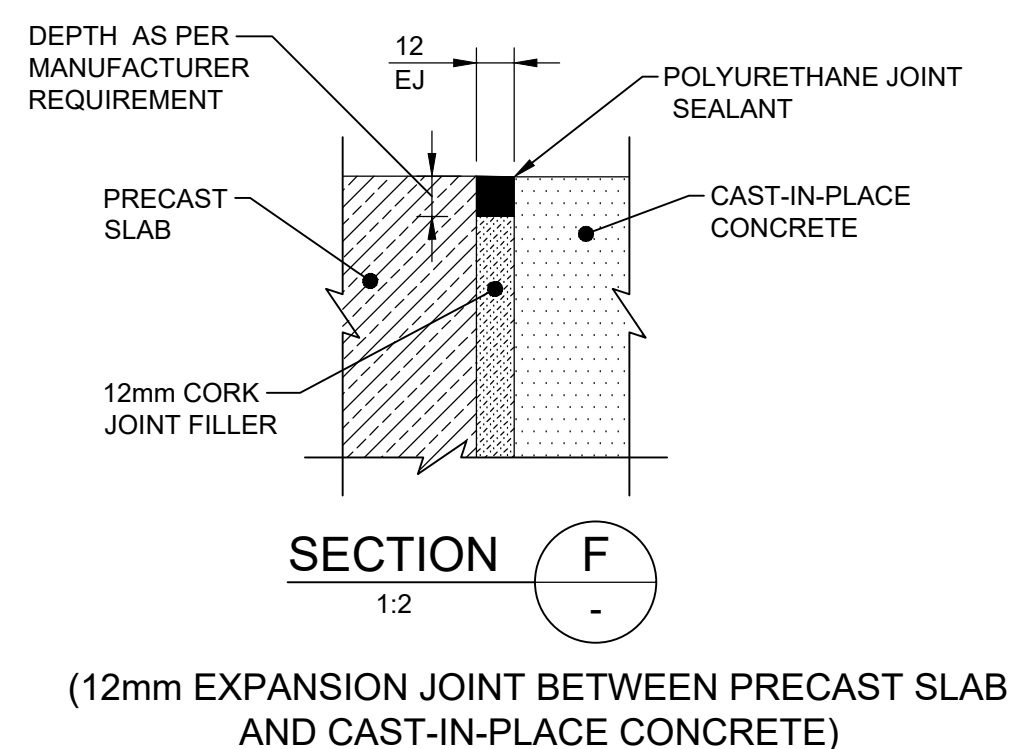
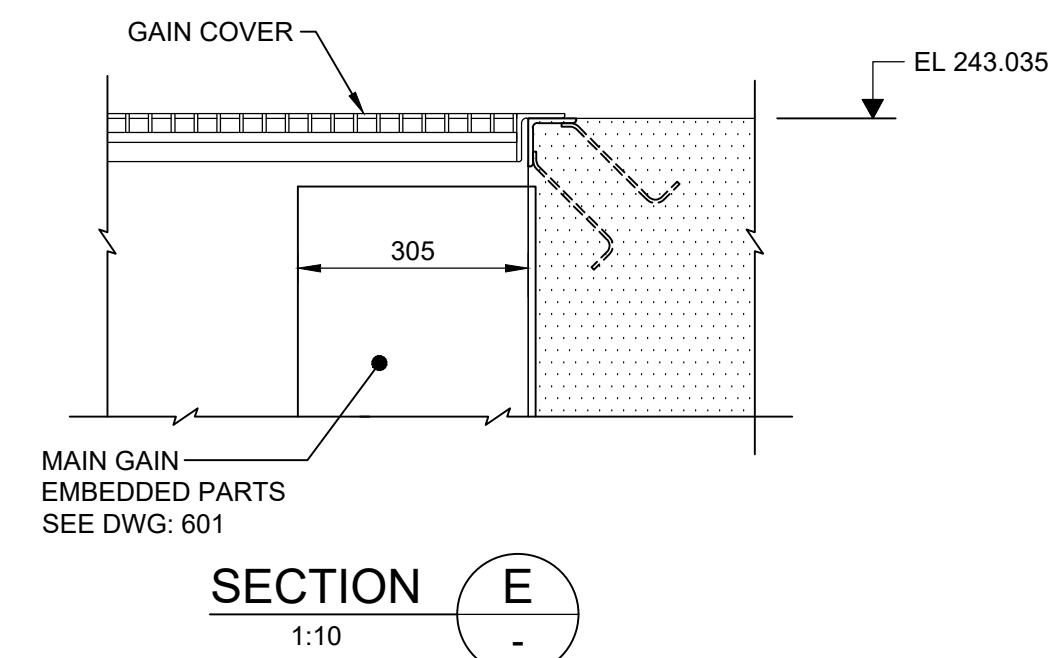
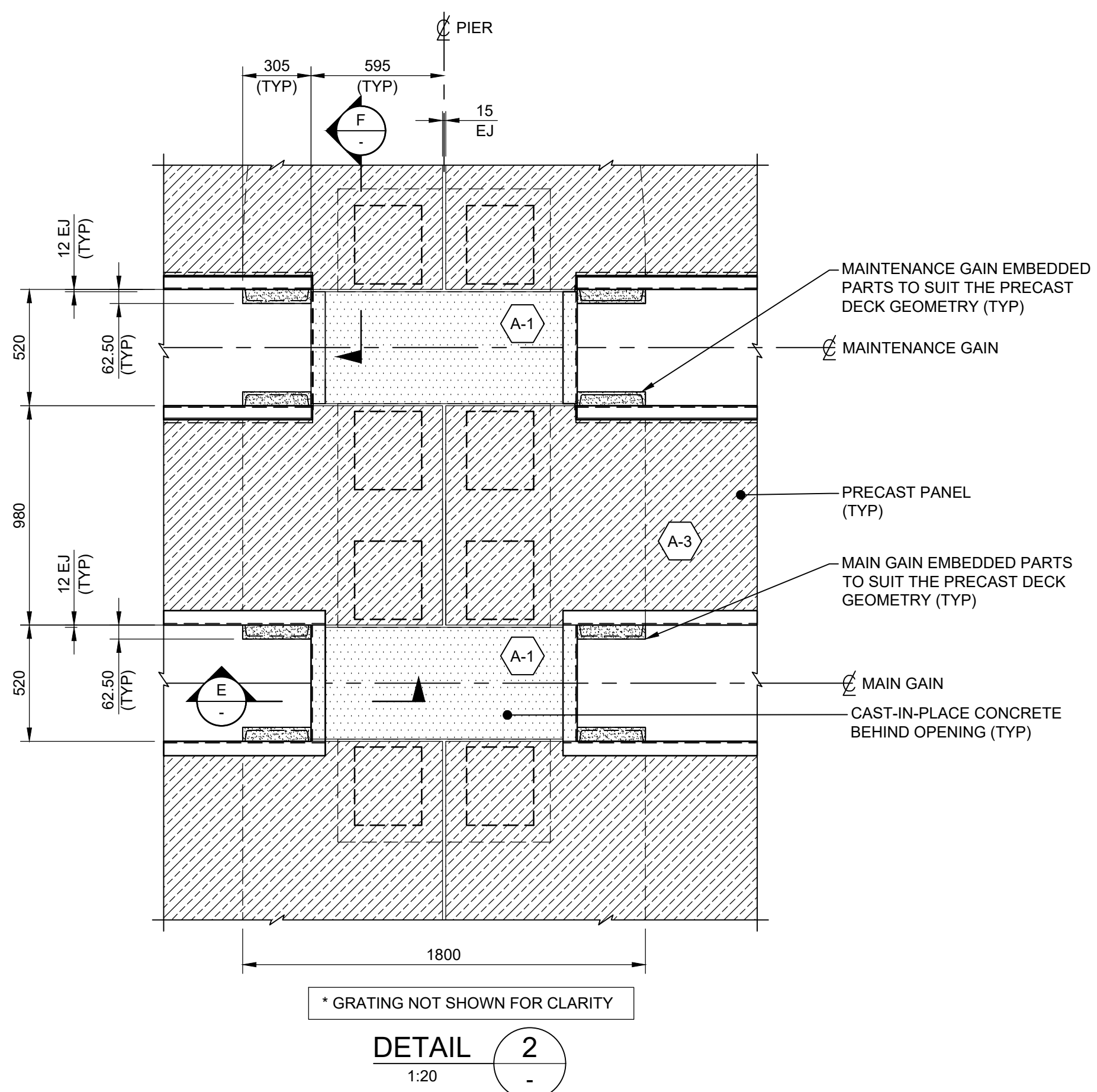
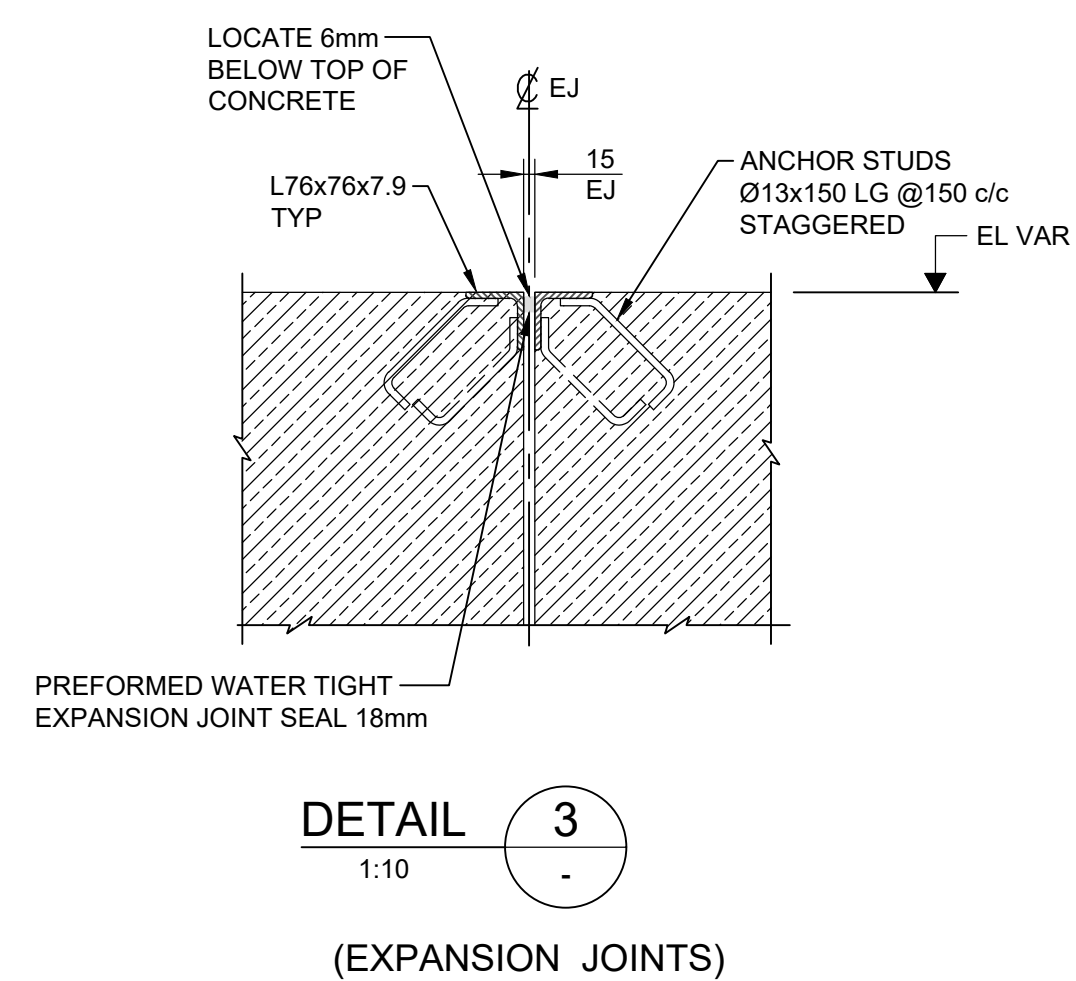
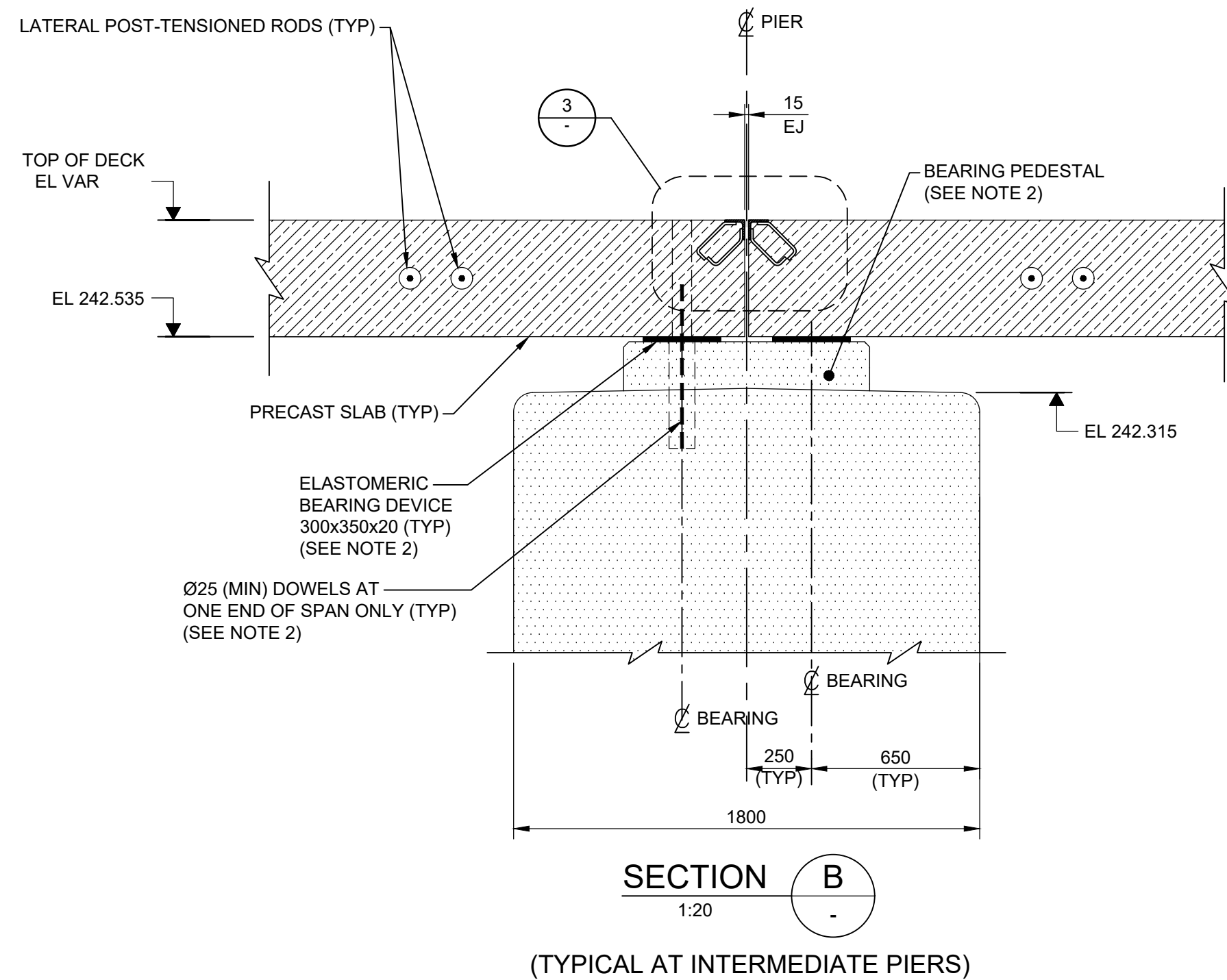
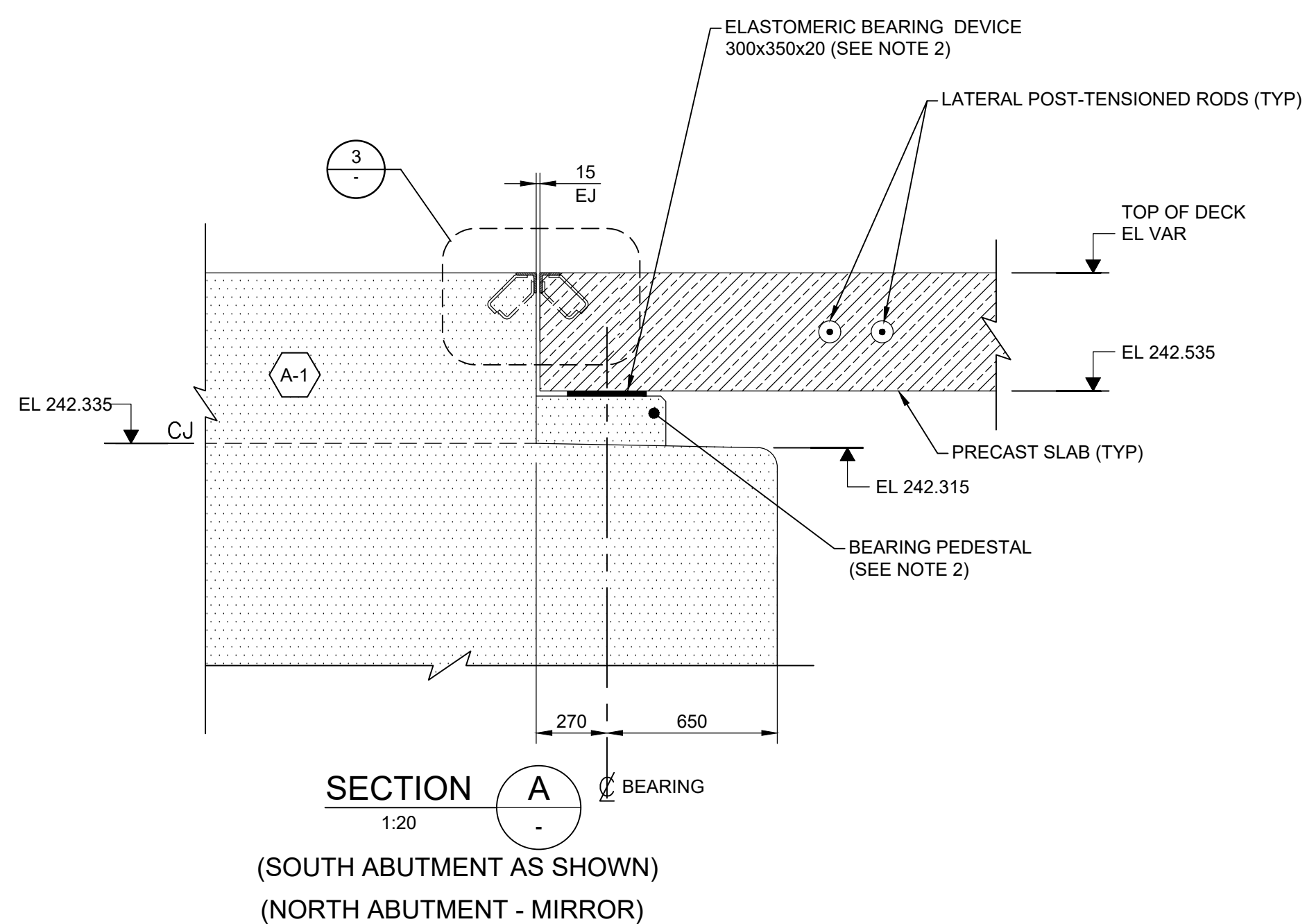
CONCRETE
SPILLWAY AND DECK
PLAN, SECTIONS AND DETAILS

Drawn by / Dessiné par H. BOVIN	Designed by / Conçu par M. SAIDOU P.Eng.
Verified by / Vérifié par R. MIGUEL P.Eng.	Approved by / Approuvé par S. VITTECOQ P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 307
Project Number / Numéro du projet R.076951.705	Sheet Feuille 1 of 3

1:75



DETAIL 1 307.01 1A (MIRRORED)
1:50
PRECAST SLABS - TYPICAL ARRANGEMENT



Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	2307 0

- NOTES:
- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS SEE DRAWING 002.
 - THE ELASTOMERIC BEARING DEVICE INCLUDING CONCRETE PEDESTAL AND DOWEL SIZES SHOWN ARE INDICATIVE. DESIGN BEARINGS AS PER SPECIFICATION SECTION 03 30 00.
 - BEARING DEVICE CENTRELINE LOCATIONS ARE INDICATIVE AND COULD BE MODIFIED TO SUIT DESIGN REQUIREMENTS.
 - DATE STAMP AS PER SPECIFICATION SECTION 03 30 00.

No.	Description	By Par	Date
0	FOR TENDER	R.M	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

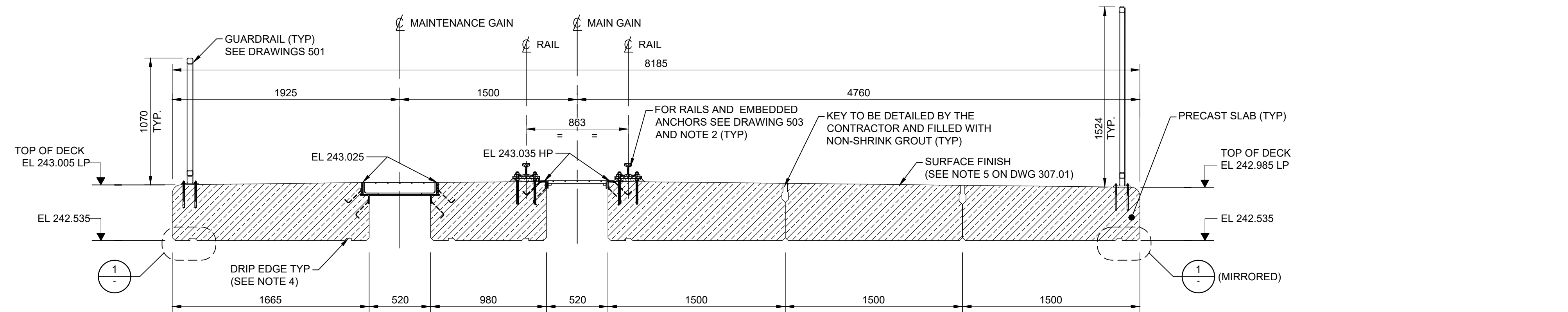
Project title / Titre du projet

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

Drawing title / Titre du dessin

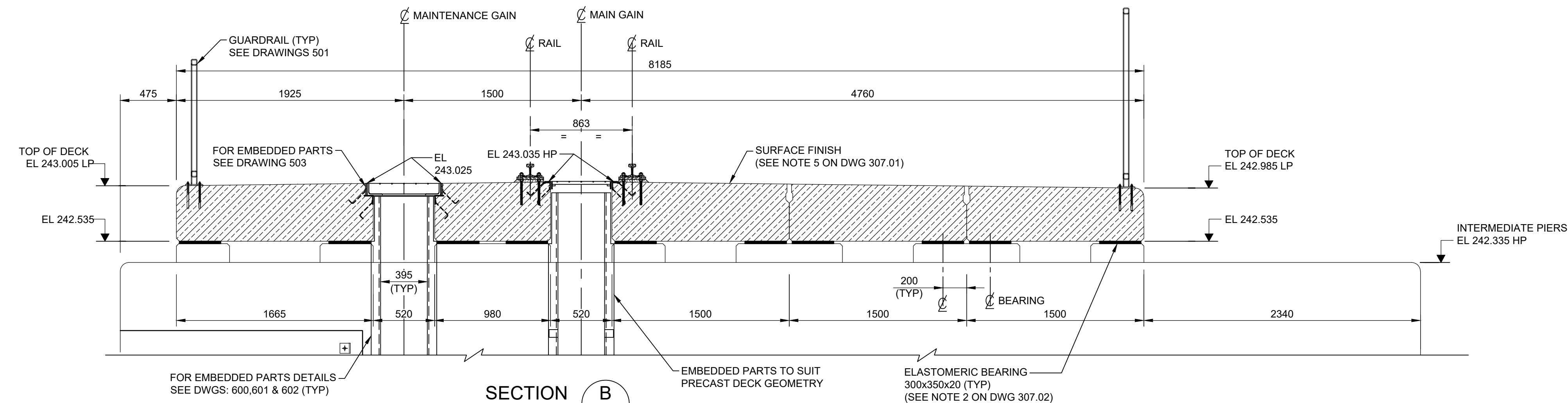
CONCRETE
SPILLWAY AND DECK
PLAN, SECTIONS AND DETAILS

Drawn by / Dessiné par H. BOIVIN	Designed by / Conçu par M. SAIDOU P.Eng.
Verified by / Vérifié par R. MIGUEL P.Eng.	Approved by / Approuvé par S. VITTECOQ P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number / Numéro du Dessin 307
Project Number / Numéro du projet R.076951.705	Sheet Feuille 2 of 3



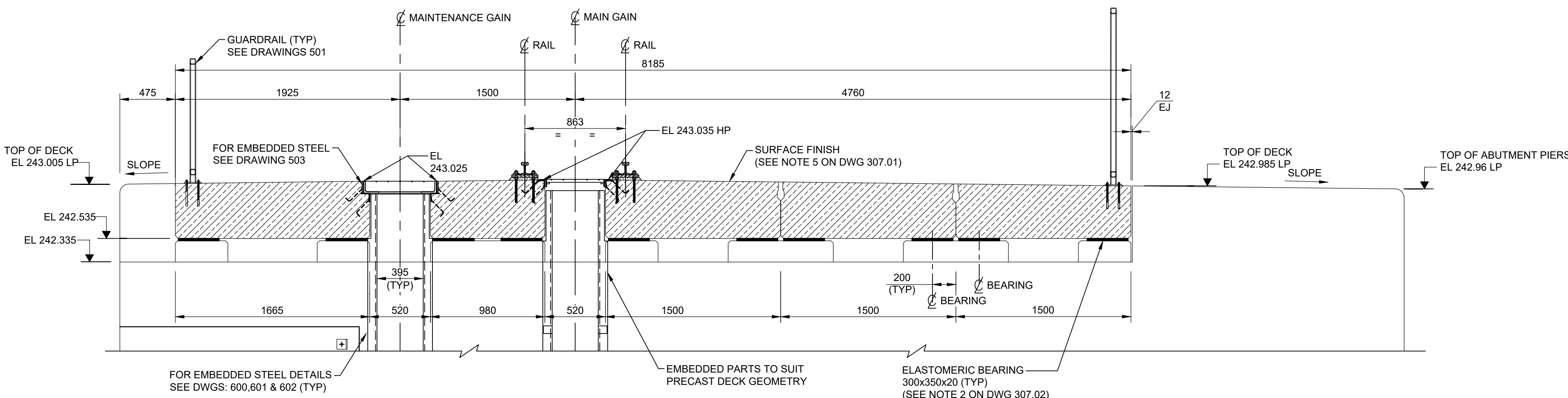
SECTION A
1:25 307.01

(TYP FOR SPILLWAY BAYS)



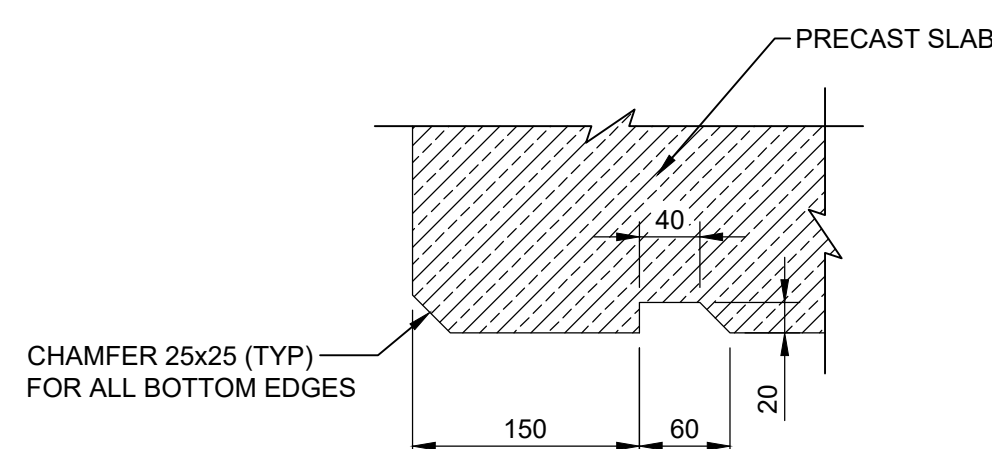
SECTION B
1:25 307.01

(TYP AT INTERMEDIATE PIERS)



SECTION C
1:25 307.01

(NORTH ABUTMENT AS SHOWN)
(SOUTH ABUTMENT MIRRORED)

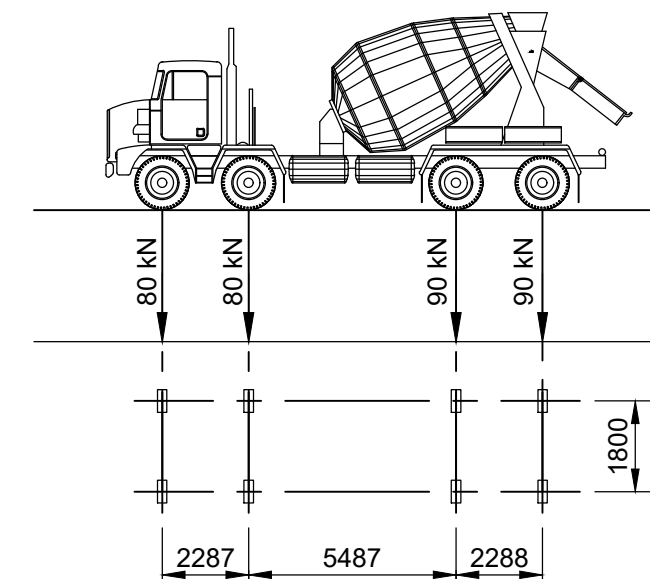


DETAIL 1
1:5

(DRIP EDGE DETAIL)

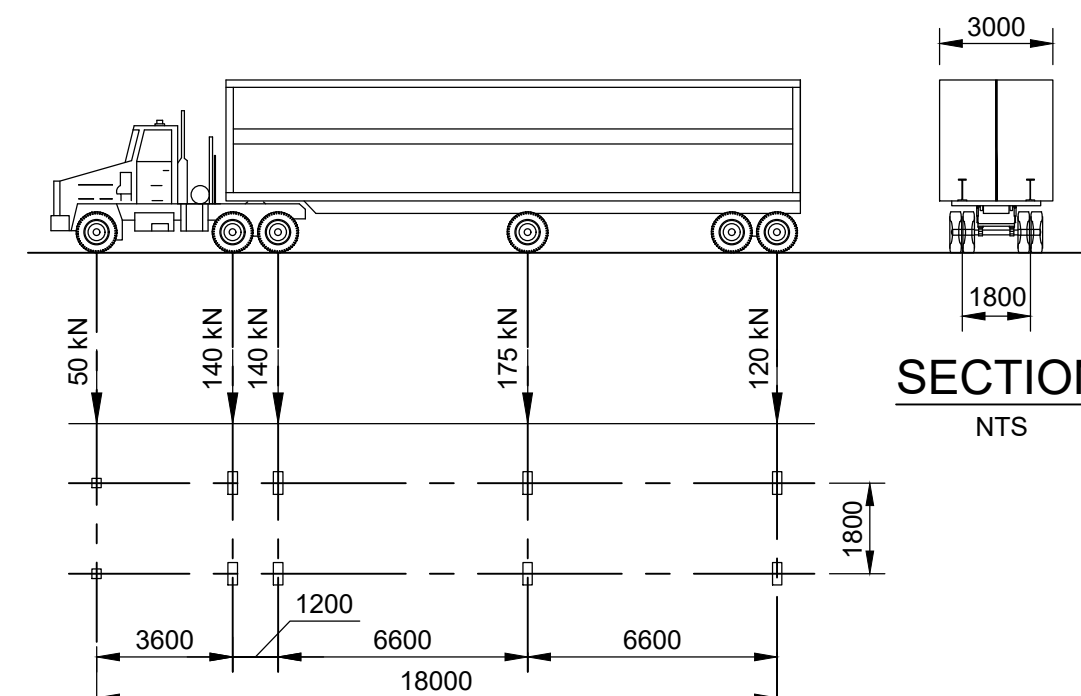
DESIGN LOADING (UNFACTORED)

- UNIFORM LIVE LOAD : 15 kPa
- VEHICLES



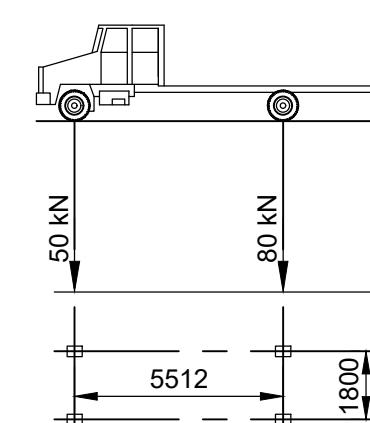
CONCRETE MIXER AXLE LOAD

NTS



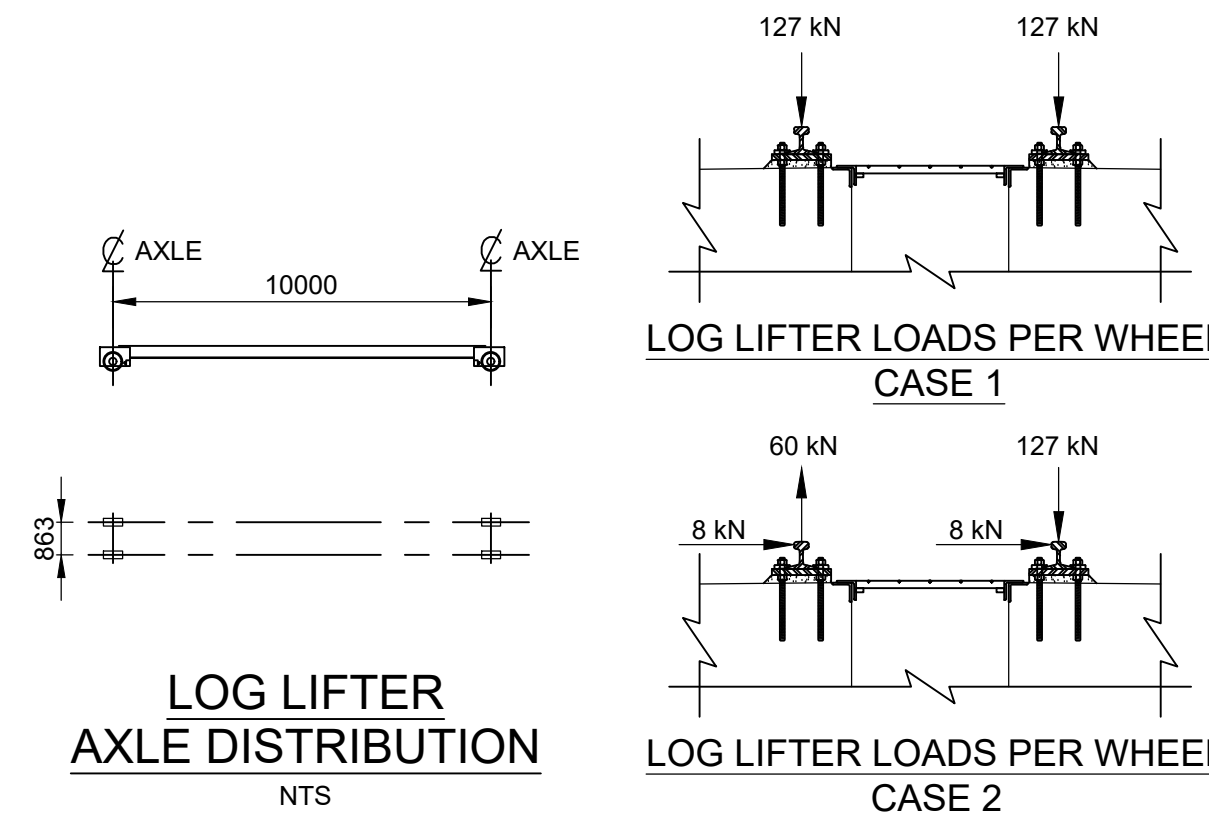
TRUCK CL-625-ONT AXLE LOAD

NTS



MAINTENANCE TRUCK AXLE LOAD

NTS



LOG LIFTER LOADS PER WHEEL
CASE 1

LOG LIFTER LOADS PER WHEEL
CASE 2

Canada

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Contract No.	Drawing Code	Serial	Rev.
HS00243	210	41DD	3307
			0

- NOTES:
- FOR GENERAL NOTES, LEGEND & ABBREVIATIONS SEE DRAWING 002.
 - PRECAST DECK DESIGN TO ALLOW DRILLING OF POST-INSTALLED ANCHORS ALONG 100 mm STRIPS ON EITHER SIDE OF RAILS AXES. AND ALONG STRIPS LOCATED BETWEEN 90 mm AND 210 mm FROM UPSTREAM AND DOWNSTREAM EDGES OF DECK.
 - DECK AND GUARDRAILS ARE NOT DESIGNED TO ACCOMMODATE PUBLIC TRAFFIC. VEHICLE TRAFFIC ON DECK TO BE RESTRICTED TO SERVICE VEHICLES ONLY.
 - LOCATE DRIP EDGES ON EITHER SIDE OF GAINS, AS WELL AS AT UPSTREAM AND DOWNSTREAM ENDS OF THE DECK. DRIP EDGES TO BE 6096mm LONG AND CENTERED ON SLUICES.

No.	Description	By	Per	Date
0	FOR TENDER		R.M	05/13/2020

Revision / Révision

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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

CONCRETE
SPILLWAY AND DECK
PLAN, SECTIONS AND DETAILS

Drawn by / Dessiné par I. ZIECK	Designed by / Conçu par M. SAIDOU P.Eng.
Verified by / Vérifié par R. MIGUEL P.Eng.	Approved by / Approuvé par S. VITTECOQ P.Eng.
Drawing Date / Date du dessin 05/13/2020	Drawing Number/ Numéro du Dessin 307
Project Number / Numéro du projet R.076951.705	Sheet Feuille 3 of 3

