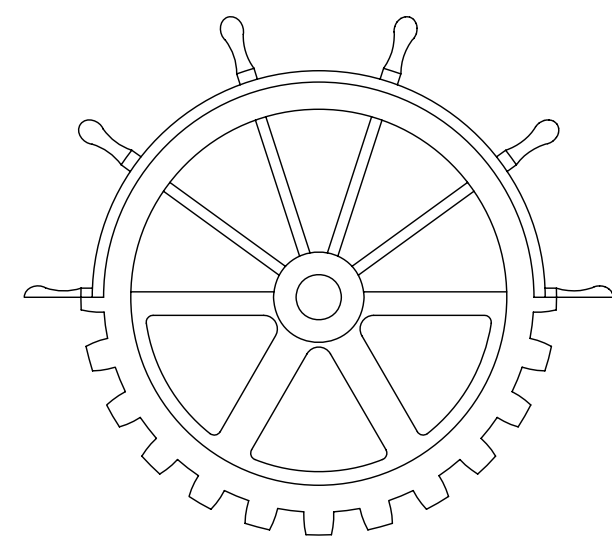




Public Works and Government Services
Canada

Ontario Region
Professional and Technical Services



Heritage Canals and Engineering Works

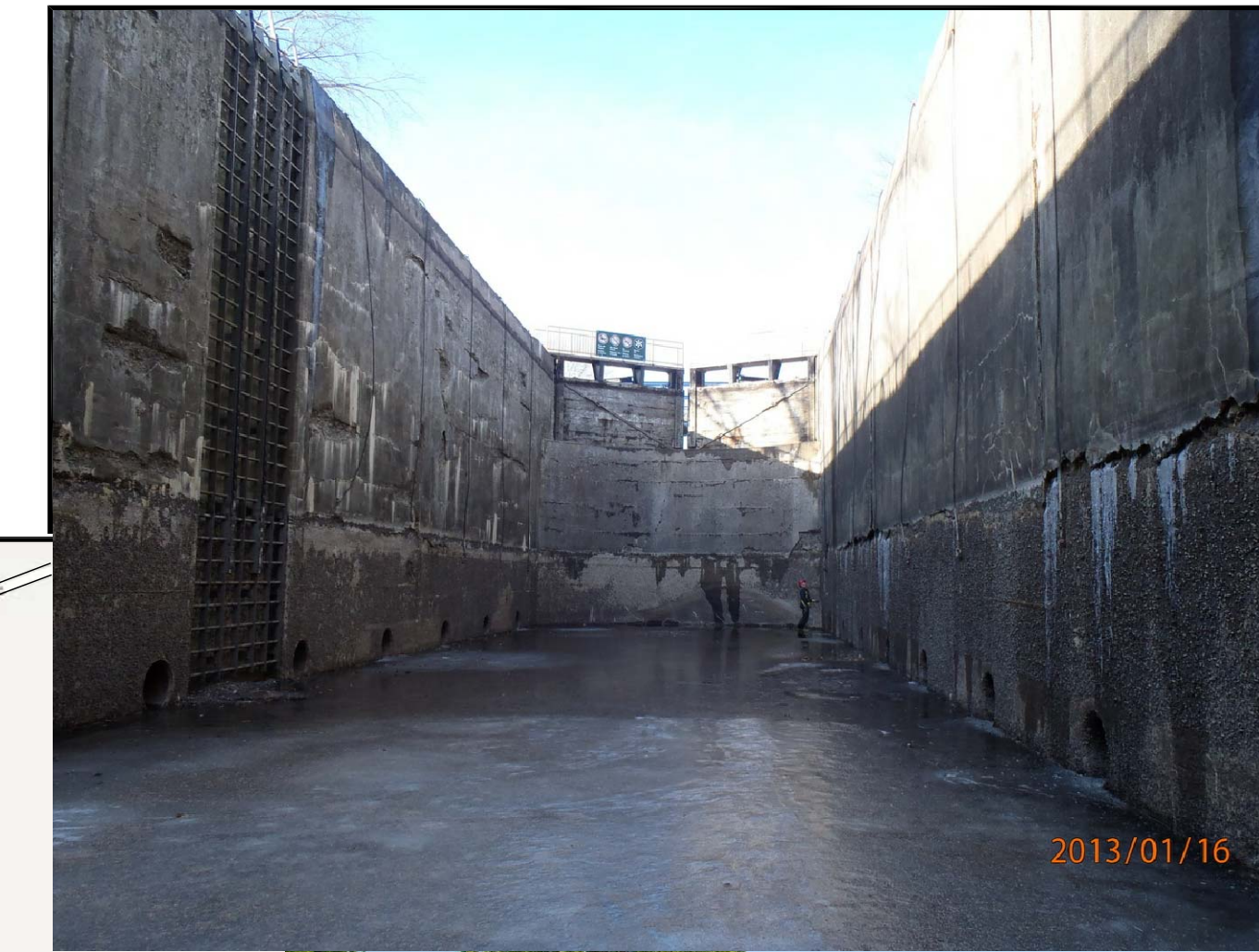
Travaux publics et Services gouvernementaux
Canada

Région de l'Ontario
Services professionnels et techniques

Canaux historiques et travaux d'ingénierie



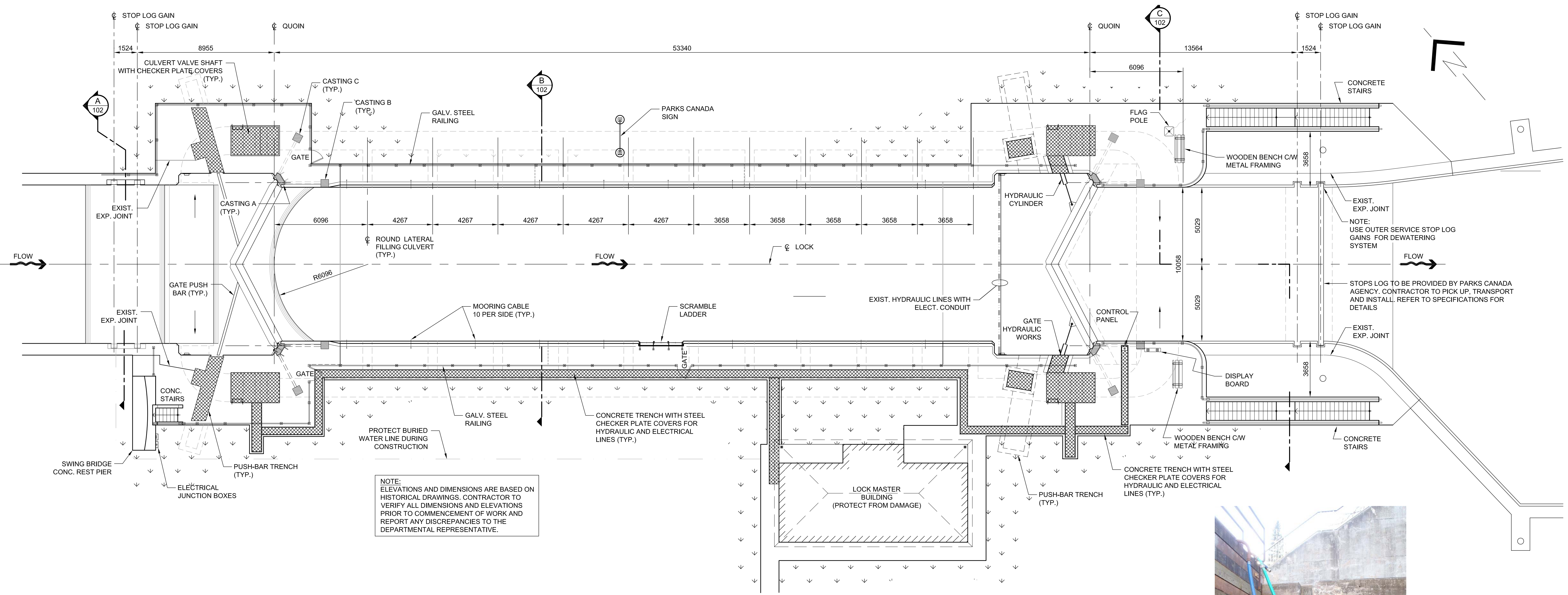
LOCATION PLAN



TRENT - SEVERN WATERWAY, Healey Falls Lock No. 15 CONCRETE REFACING

LIST OF DRAWINGS

SHEET No.	DRAWING No.	DRAWING TITLE
1	-	COVER PAGE AND LOCATION PLAN
2	101	SITE PLAN
3	102	EXISTING PLAN AND SECTIONS
4	103	EXISTING ELEVATIONS
5	104	REMOVALS AND DEMOLITION I
6	105	REMOVALS AND DEMOLITION II
7	106	NEW CONSTRUCTION PLAN, EAST ELEVATION AND DETAILS
8	107	NEW CONSTRUCTION WEST ELEVATION, SECTION AND DETAIL
9	108	PLAN AND ELEVATION I
10	109	PLAN AND ELEVATION II
11	110	BREASTWALL SECTIONS AND DETAIL
12	111	NEW FRAME AND COVER PLATES FOR VALVE SHAFT PLAN, SECTION AND DETAIL
13	112	NEW HYDRAULIC TRENCH FOR UPPER GATES PLAN, SECTIONS AND DETAIL
14	113	CONCRETE REFACING CASTING A AND B PLAN AND SECTIONS
15	114	CONCRETE REFACING AND ANCHOR TYPE A DETAIL



NOTE:
ELEVATIONS AND DIMENSIONS ARE BASED ON
HISTORICAL DRAWINGS. CONTRACTOR TO
VERIFY ALL DIMENSIONS AND ELEVATIONS
PRIOR TO COMMENCEMENT OF WORK AND
REPORT ANY DISCREPANCIES TO THE
DEPARTMENTAL REPRESENTATIVE.

PLAN - EXISTING CONDITIONS
1:125

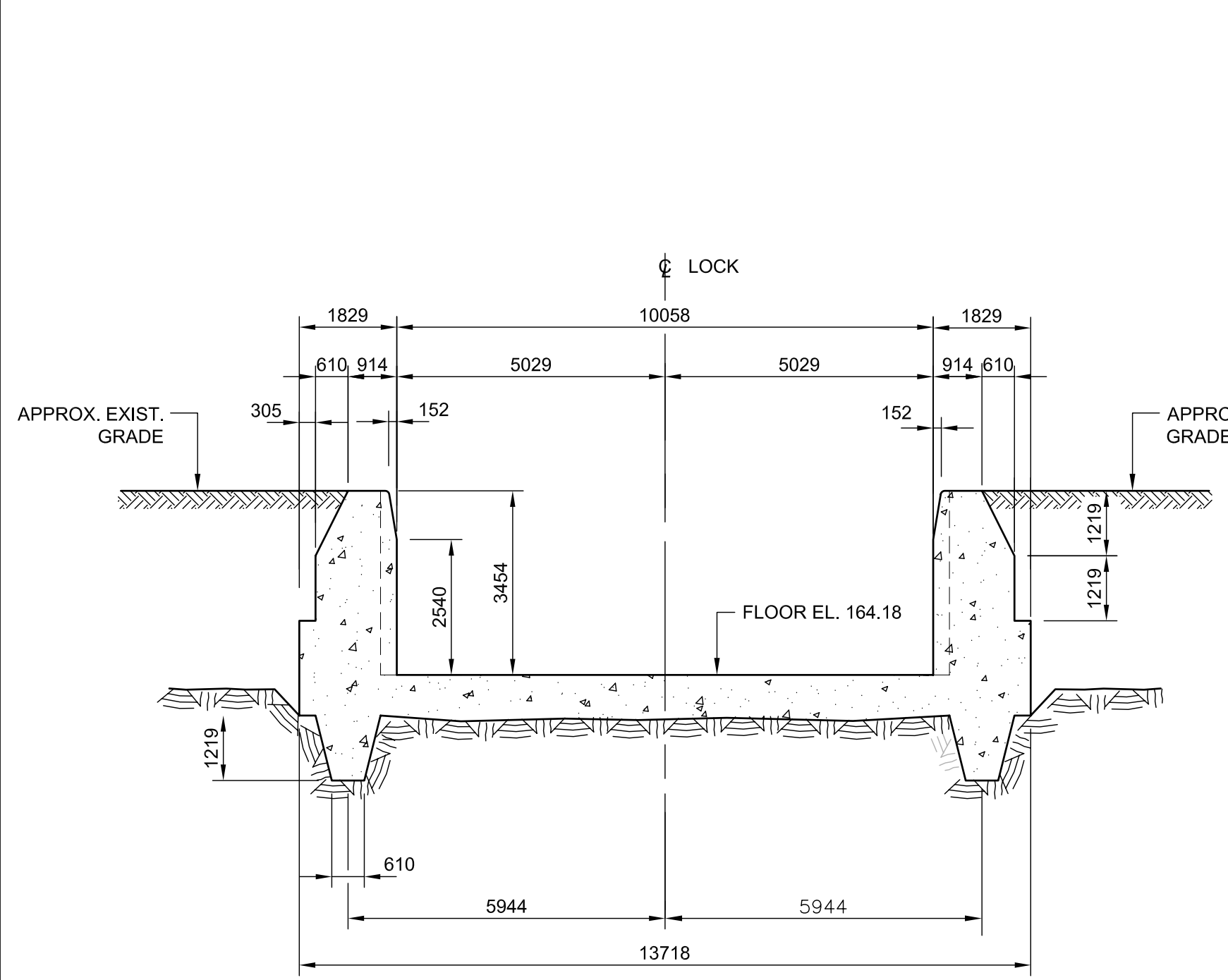


**PHOTO SHOWS SERVICE STOP LOGS
DEPLOYED IN OUTER GAINS AT LOWER
GATES FOR DEWATERING SYSTEM**

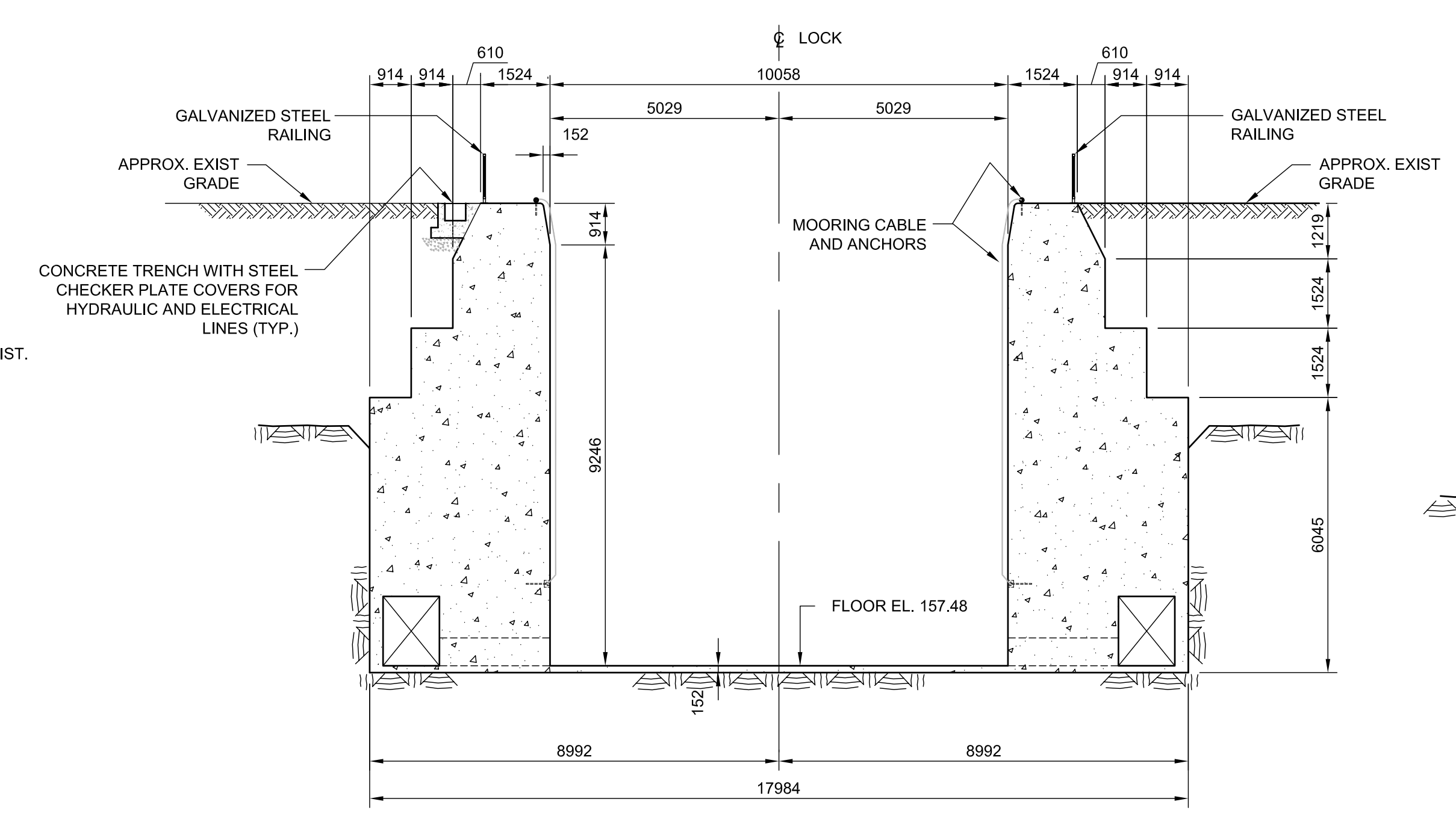
No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

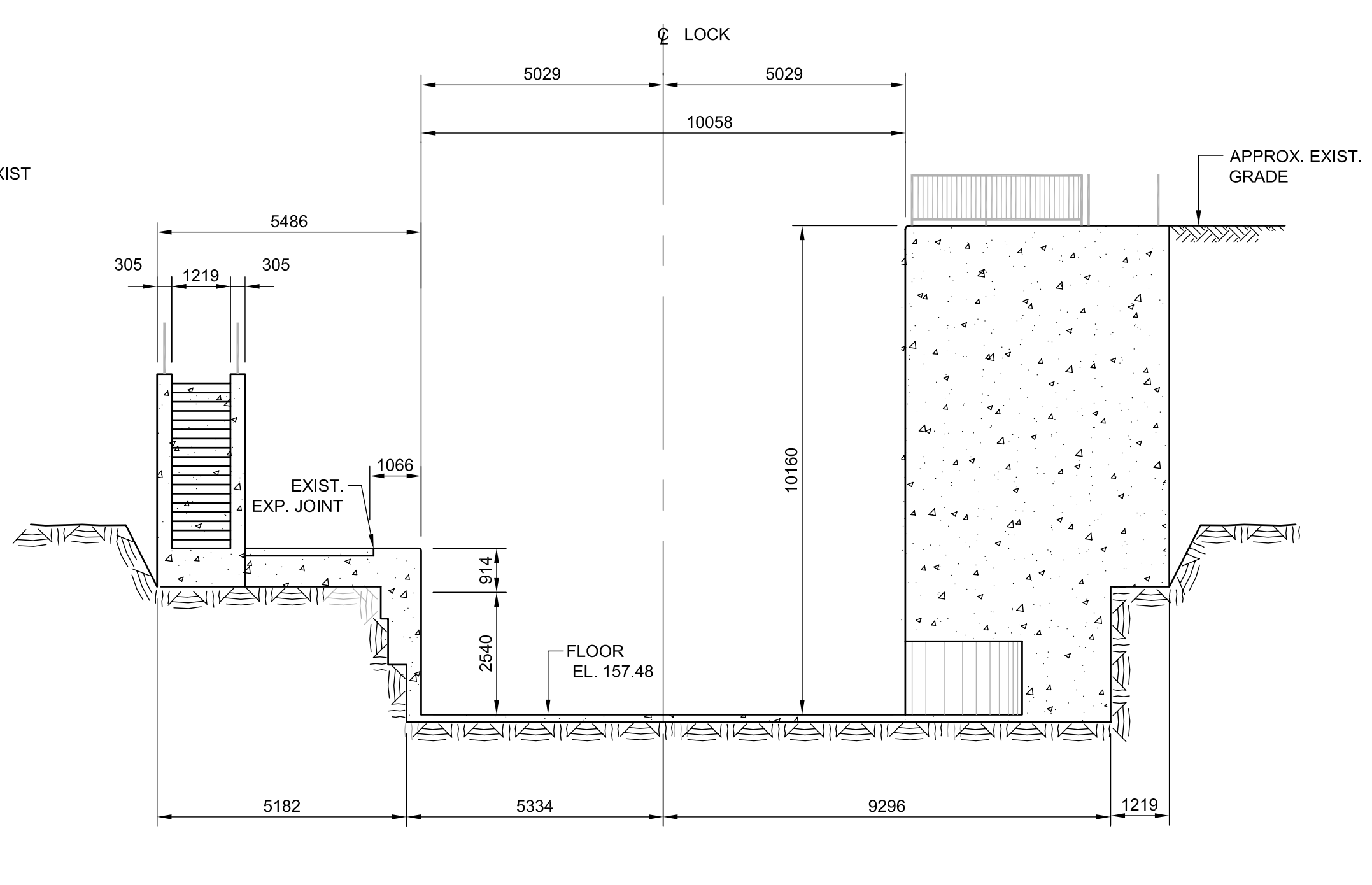
A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin



SECTION A
1:100



SECTION B
1:50



SECTION C
1:50

Project title / Titre du projet

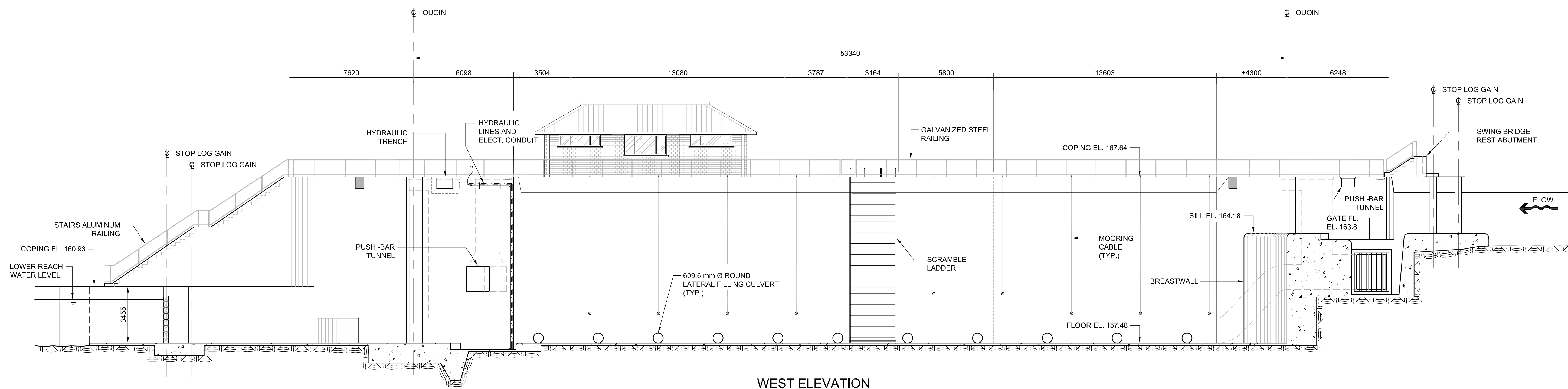
**TSW HEALEY FALLS
LOCK 15
CONCRETE REFACING**

Drawing title / Titre du dessin

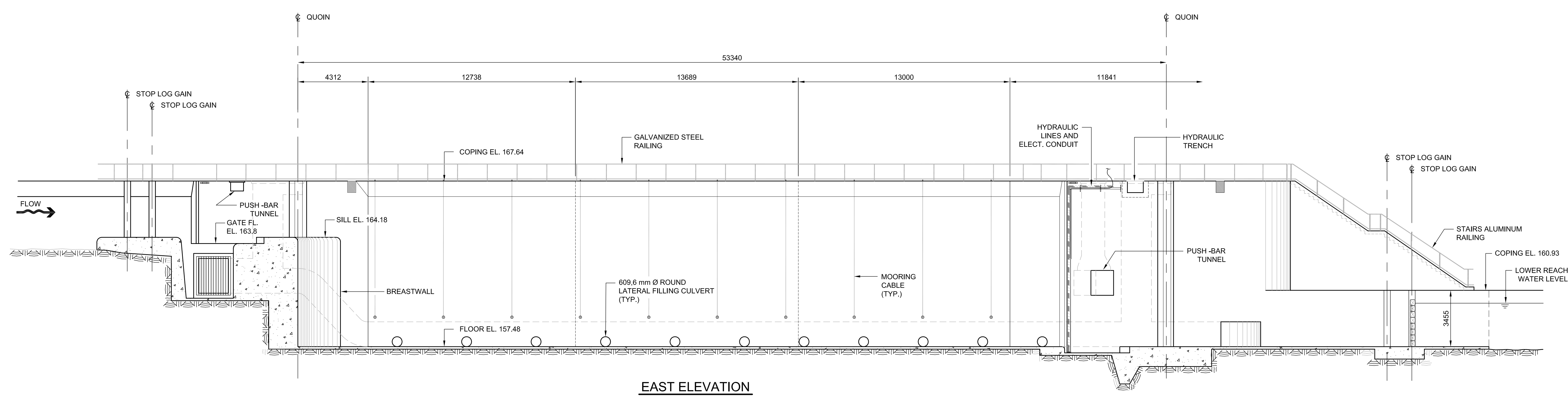
**EXISTING PLAN
AND SECTIONS**

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BÉRIALTY	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	Drawing Number / Numéro du Dessin 102
HCEW Number / Numéro de CHTI COTSW 13 - R03	Sheet 3 of 15



WEST ELEVATION
1:125



EAST ELEVATION
1:125

No.	Description	Des. By	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

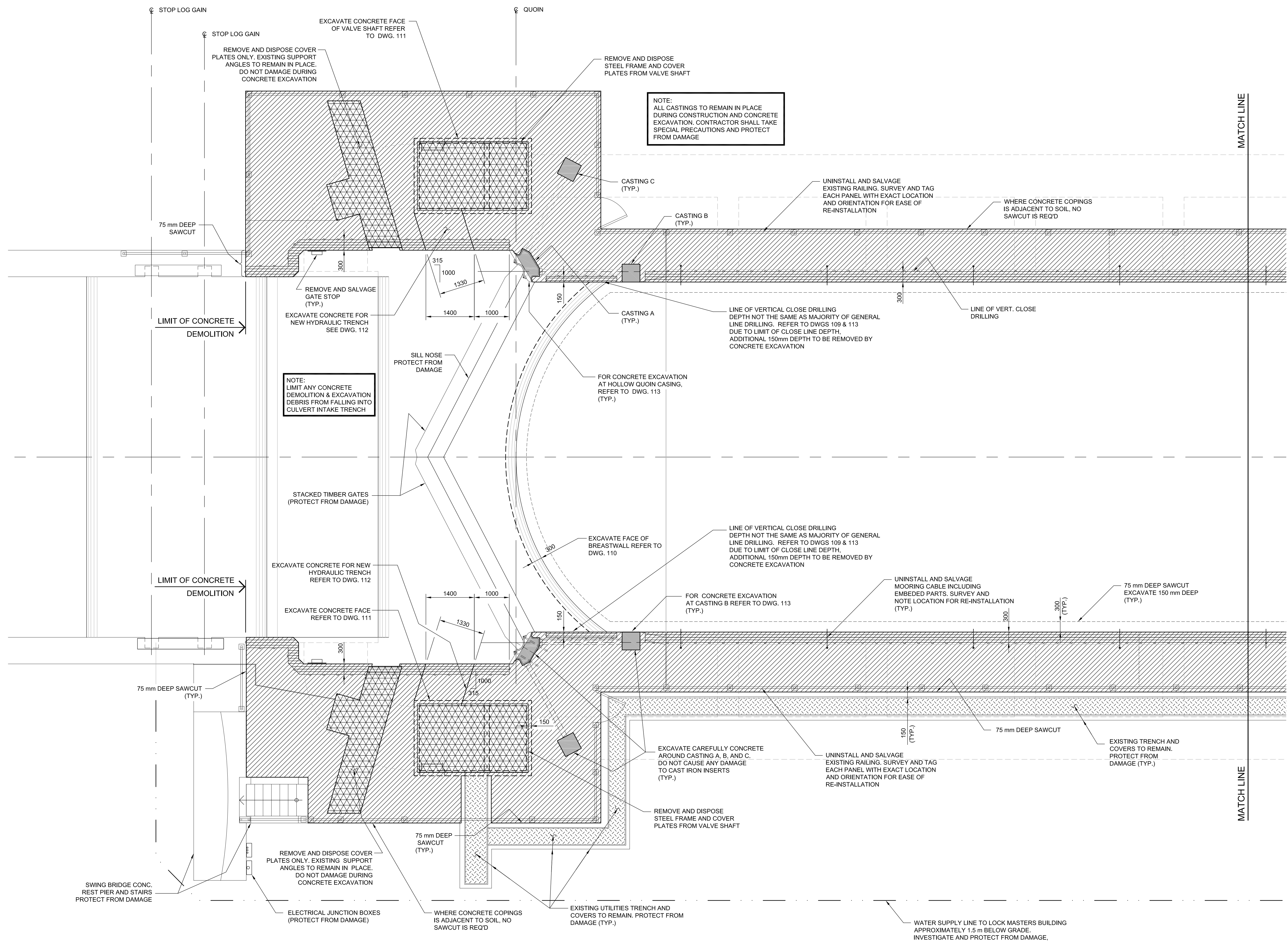
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

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

Project title / Titre du projet
TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

Drawing title / Titre du dessin
EXISTING ELEVATIONS

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013
Project manager / Administrateur de projet ATIF SUHAIL	
HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 103
Project Number / Numéro du projet R.063528.001	Sheet 4 of 15



NOTE:
ALL CASTINGS TO REMAIN IN PLACE DURING CONSTRUCTION AND CONCRETE EXCAVATION. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS AND PROTECT FROM DAMAGE

NOTE:
LIMIT ANY CONCRETE DEMOLITION & EXCAVATION DEBRIS FROM FALLING INTO CULVERT INTAKE TRENCH

EXCAVATE CAREFULLY CONCRETE AROUND CASTING A, B, AND C. DO NOT CAUSE ANY DAMAGE TO CAST IRON INSERTS (TYP.)

LEGEND:

- DENOTES EXISTING CASTING TO REMAIN AND BE PROTECTED FROM DAMAGE
- DENOTES COVER PLATES TO BE REMOVED, DISPOSED AND REPLACED WITH NEW
- DENOTES EXISTING COVER PLATES TO REMAIN AND BE PROTECTED FROM DAMAGE
- DENOTES COPING AND CHAMBER WALL CONCRETE EXCAVATION
- DENOTES LINE DRILLING CONCRETE EXCAVATION
- DENOTES LINE OF VERTICAL CLOSE DRILLING

No.	Description	Drawn By / Des. Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet

**TSW HEALEY FALLS
LOCK 15
CONCRETE REFACING**

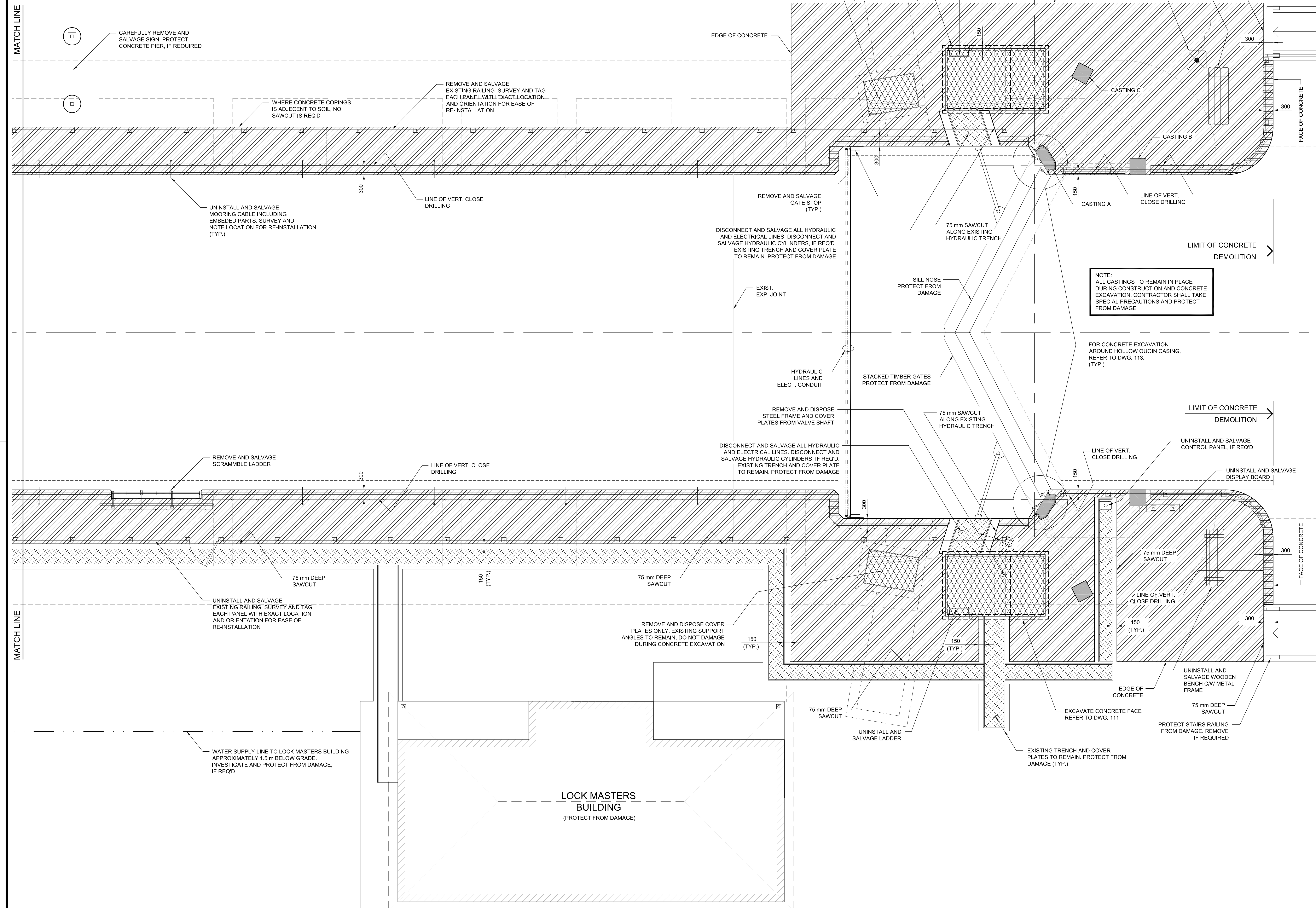
Drawing title / Titre du dessin

**REMOVALS AND
DEMOLITION I**

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 104
	Project Number / Numéro du projet R.063528.001	Sheet / Feuille 5 of 15

PART PLAN - REMOVALS AND DEMOLITION I
1:50



LEGEND:

- DENOTES EXISTING CASTING TO REMAIN AND BE PROTECTED FROM DAMAGE
- DENOTES COVER PLATES TO BE REMOVED, DISPOSED AND REPLACED WITH NEW
- DENOTES EXISTING COVER PLATES TO REMAIN AND BE PROTECTED FROM DAMAGE
- DENOTES COPING AND CHAMBER WALL CONCRETE EXCAVATION
- DENOTES LINE DRILLING CONCRETE EXCAVATION
- DENOTES LINE OF VERTICAL CLOSE DRILLING

NOTE:
ALL CASTINGS TO REMAIN IN PLACE DURING CONSTRUCTION AND CONCRETE EXCAVATION. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS AND PROTECT FROM DAMAGE

FOR CONCRETE EXCAVATION AROUND HOLLOW QUOIN CASING, REFER TO DWG. 113. (TYP.)

No.	Description	Des.By	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet

**TSW HEALEY FALLS
LOCK 15
CONCRETE REFACING**

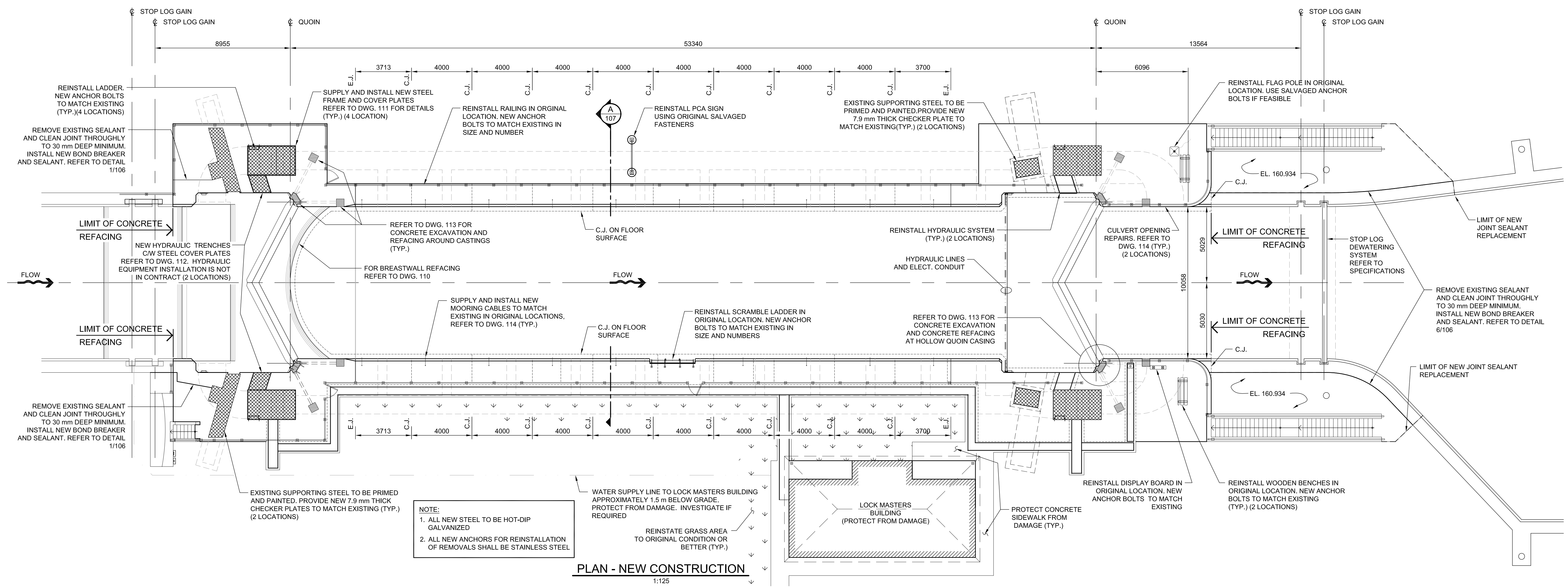
Drawing title / Titre du dessin

**REMOVALS AND
DEMOLITION II**

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BÉRIault	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 105
Project Number / Numéro du projet R.063528.001	Sheet / Feuille 6 of 15	

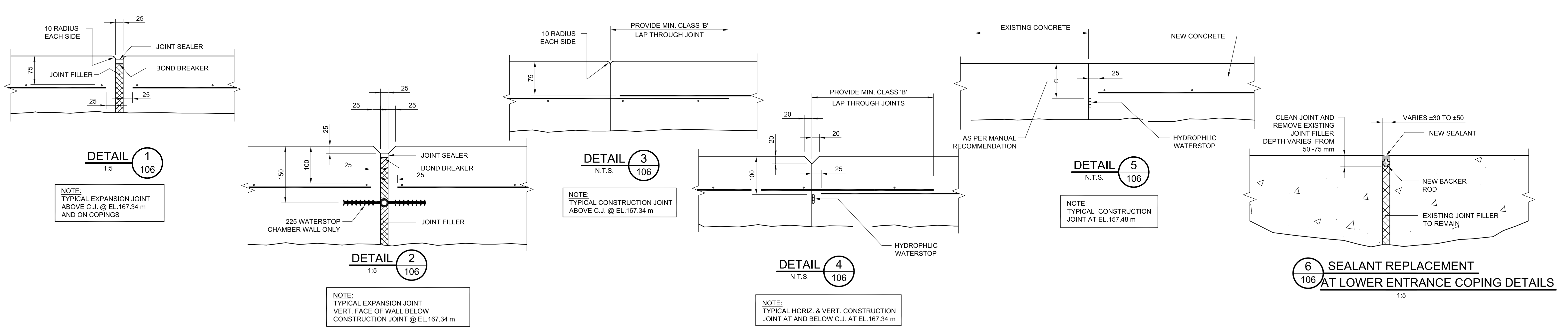
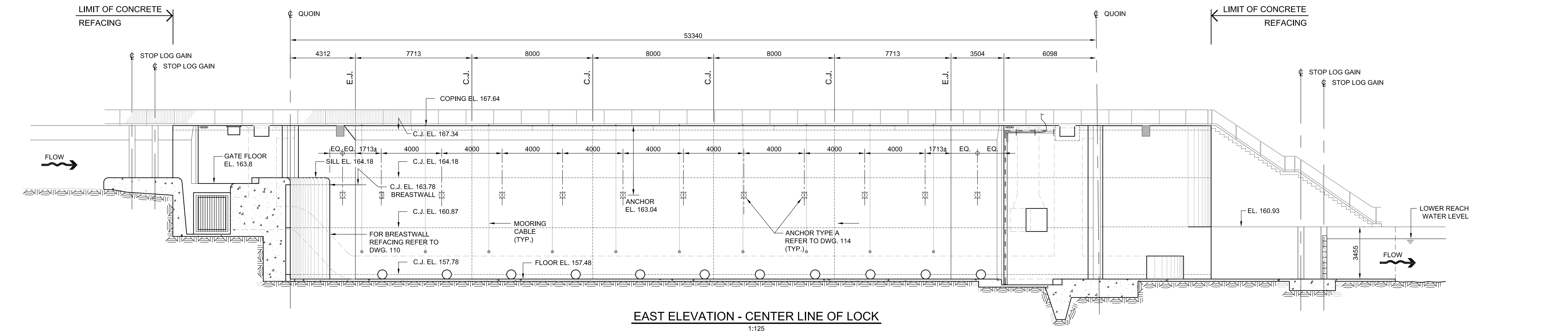
PART PLAN - REMOVALS AND DEMOLITION II
1:50



LEGEND:

DENOTES EXISTING CASTING TO REMAIN AND BE PROTECTED FROM DAMAGE

DENOTES NEW COVER PLATES TO BE SUPPLIED AND INSTALLED



No.	Description	Des. By	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

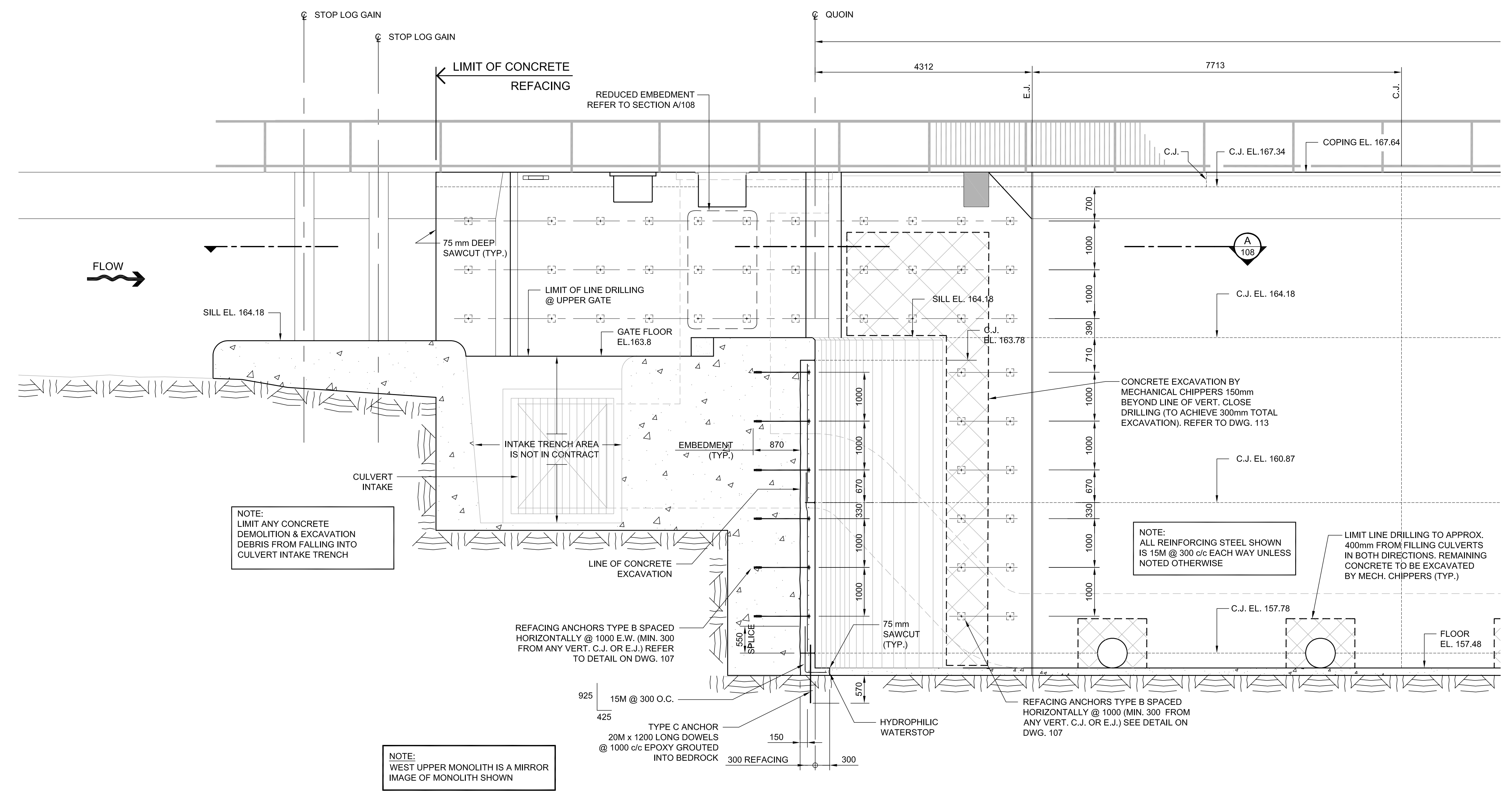
Project title / Titre du projet

TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

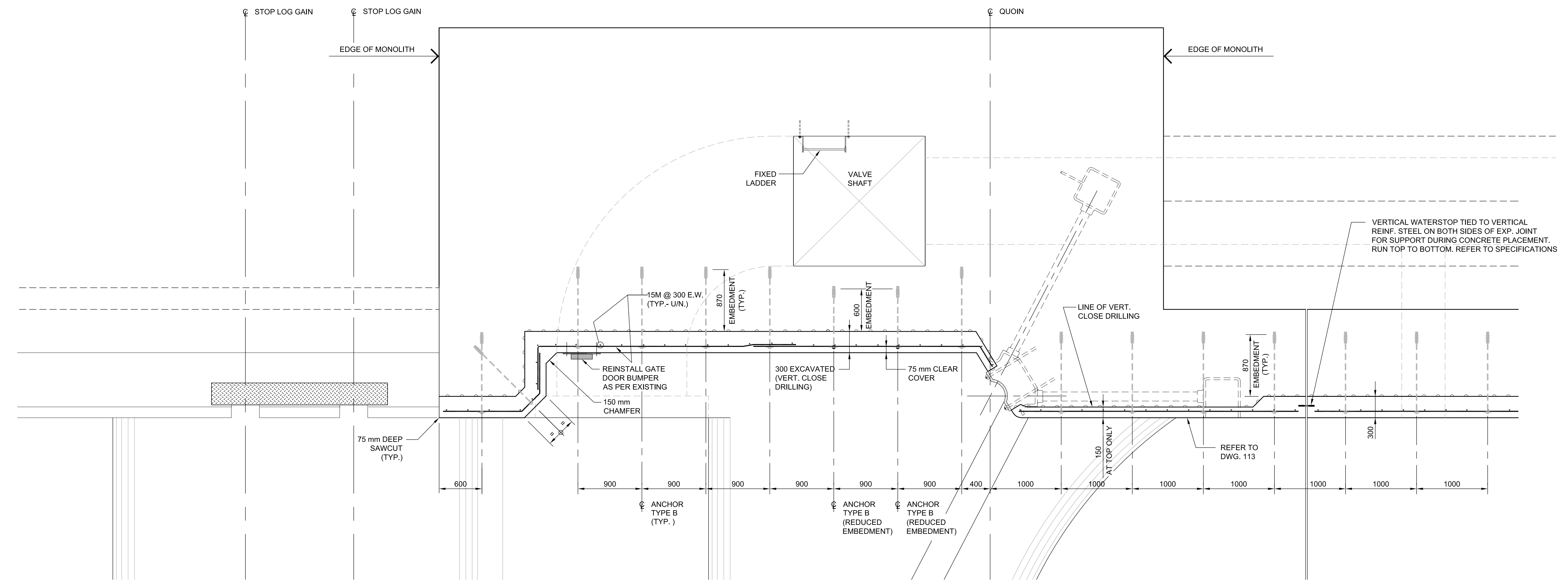
Drawing title / Titre du dessin

NEW CONSTRUCTION PLAN, EAST ELEVATION AND DETAILS

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BÉRIALTY	Drawing Date / Date du dessin JULY 2013
Project manager / Administrateur de projet ATIF SUHAIL	
HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 106
Project Number / Numéro du projet R.063528.001	Sheet 7 of 15



PARTIAL ELEVATION - UPPER MONOLITH - CONCRETE REFACING
1:50



UPPER MONOLITH - CONCRETE REFACING - SECTION A
1:30

No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

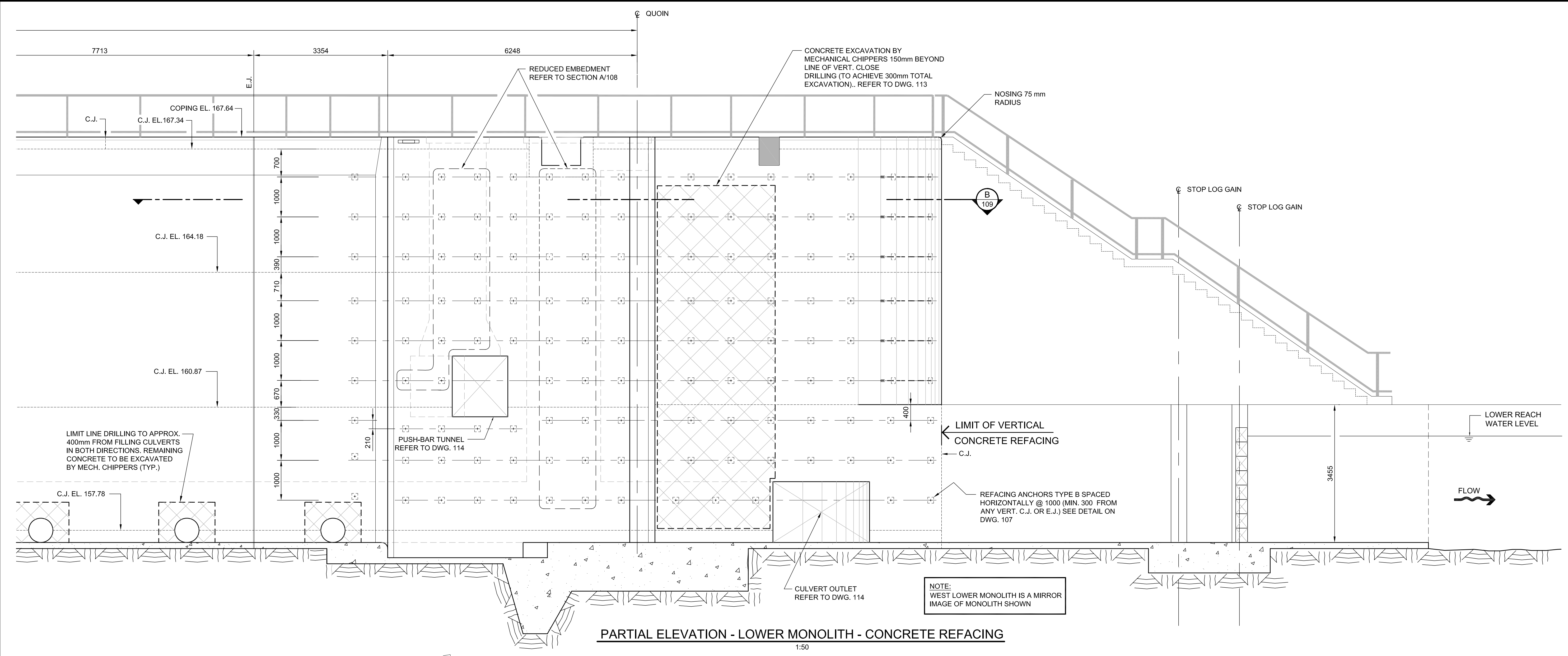
A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

Project title / Titre du projet
TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

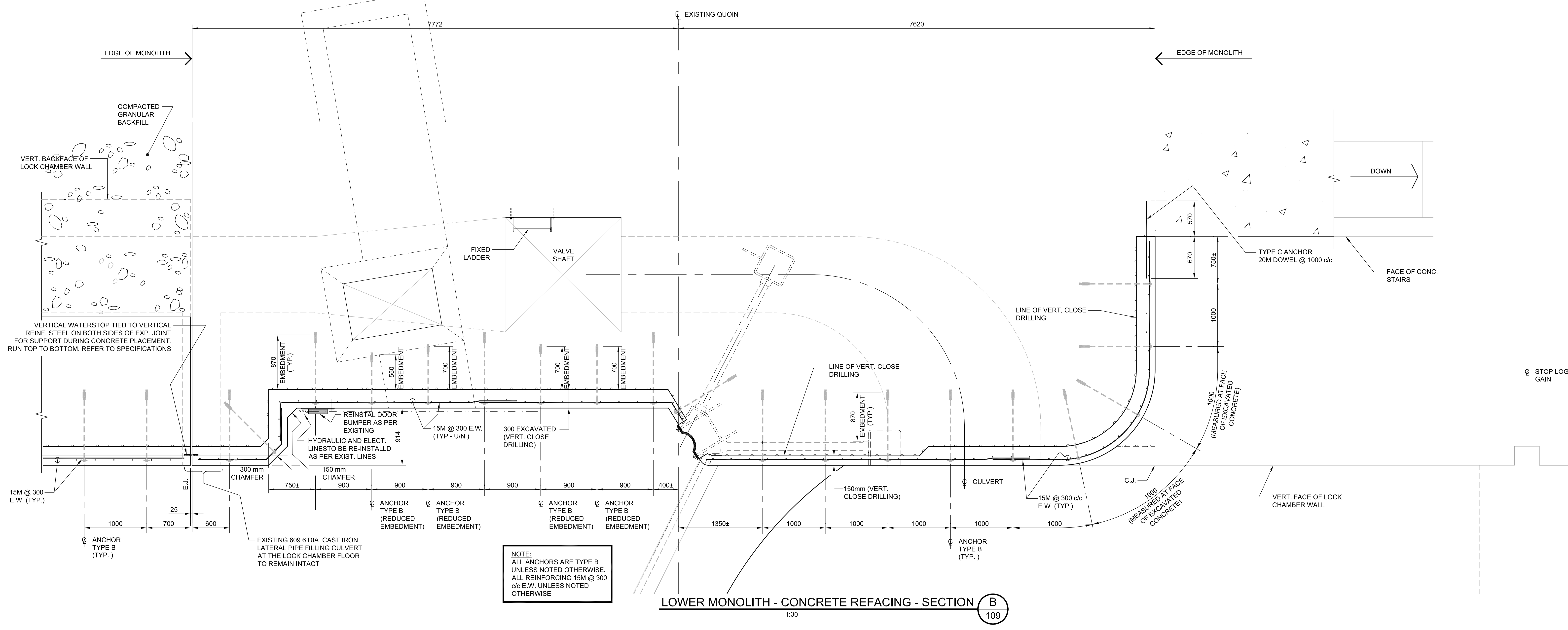
Drawing title / Titre du dessin
PLAN AND ELEVATION I

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BÉRIALTY	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 108
	Project Number / Numéro du projet R.063528.001	Sheet 9 of 15



PARTIAL ELEVATION - LOWER MONOLITH - CONCRETE REFACING
1:50



LOWER MONOLITH - CONCRETE REFACING - SECTION B
1:30

No.	Description	Rev. By	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet
**TSW HEALEY FALLS
LOCK 15
CONCRETE REFACING**

Drawing title / Titre du dessin
PLAN AND ELEVATION II

Drawn by / Dessiné par
H. CHRZANOWSKI
DAVID ROWAN

Designed by / Conçu par
CZESLAW CUDOWSKI

Approved by / Approuvé par
LUC BÉRIALTY

Project manager / Administrateur de projet
ATIF SUHAIL

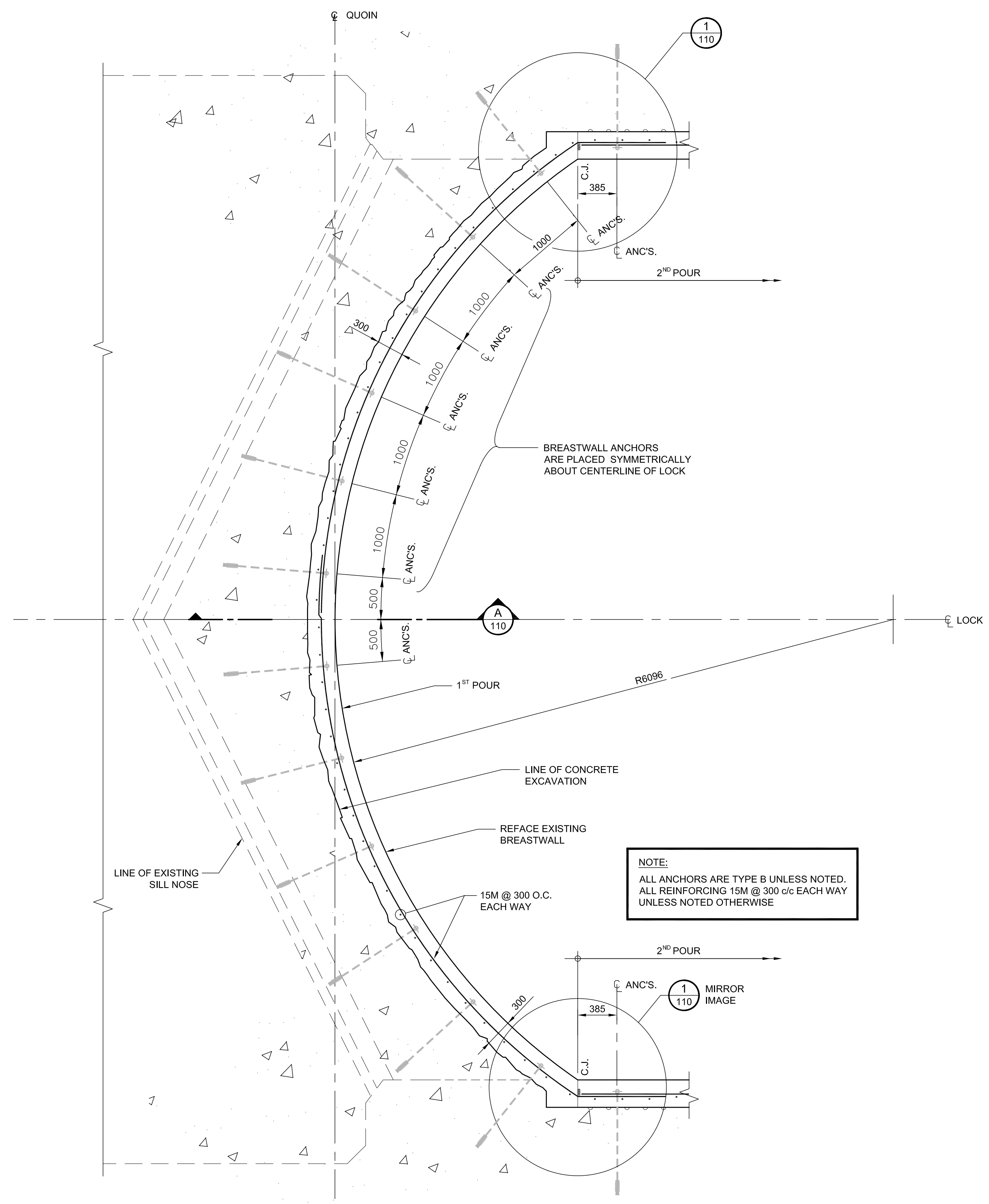
July 2013

HCEW Number / Numéro de CHTI
COTSW 13 - R03

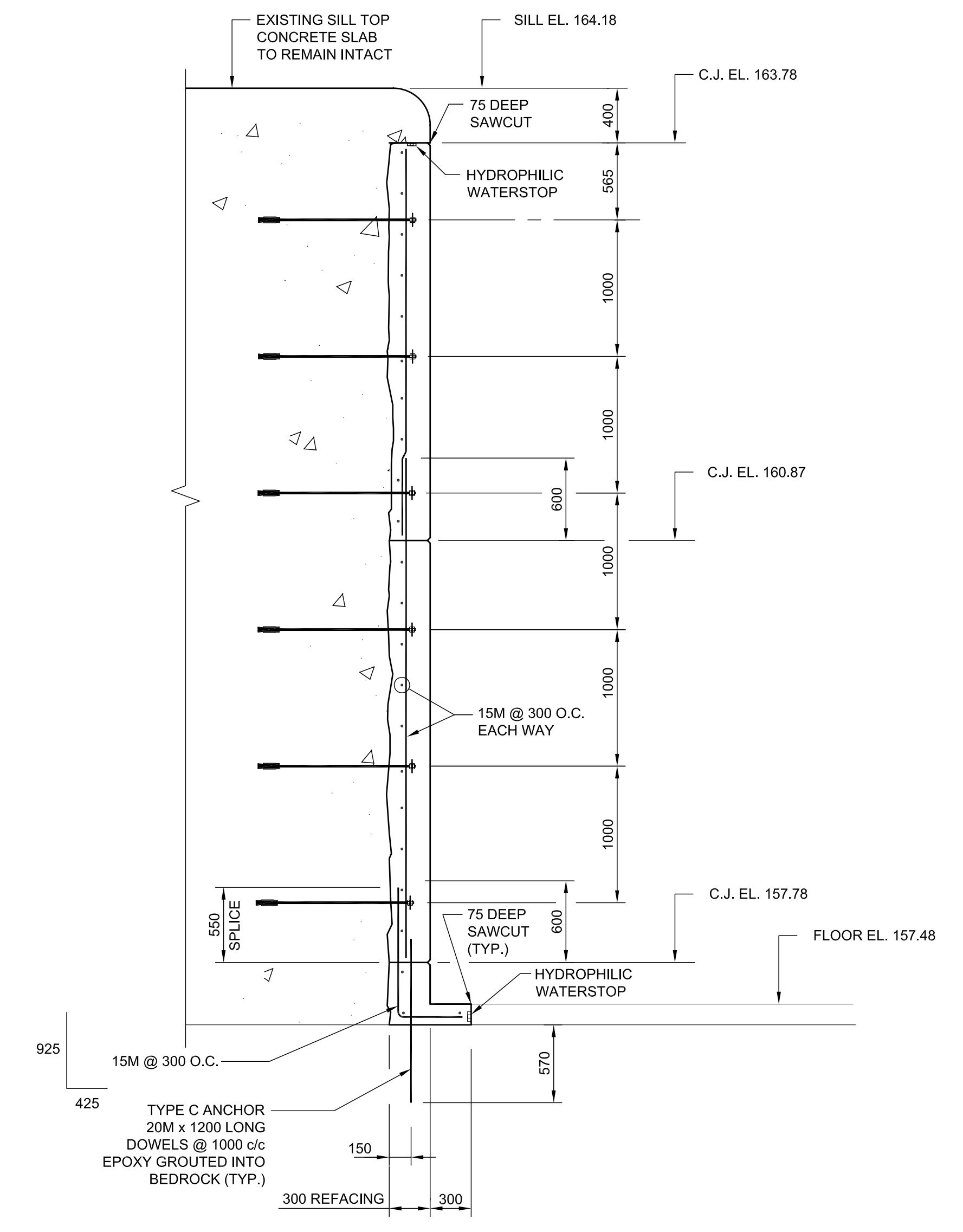
Project Number / Numéro du projet
R.063528.001

Drawing Number / Numéro du Dessin
109

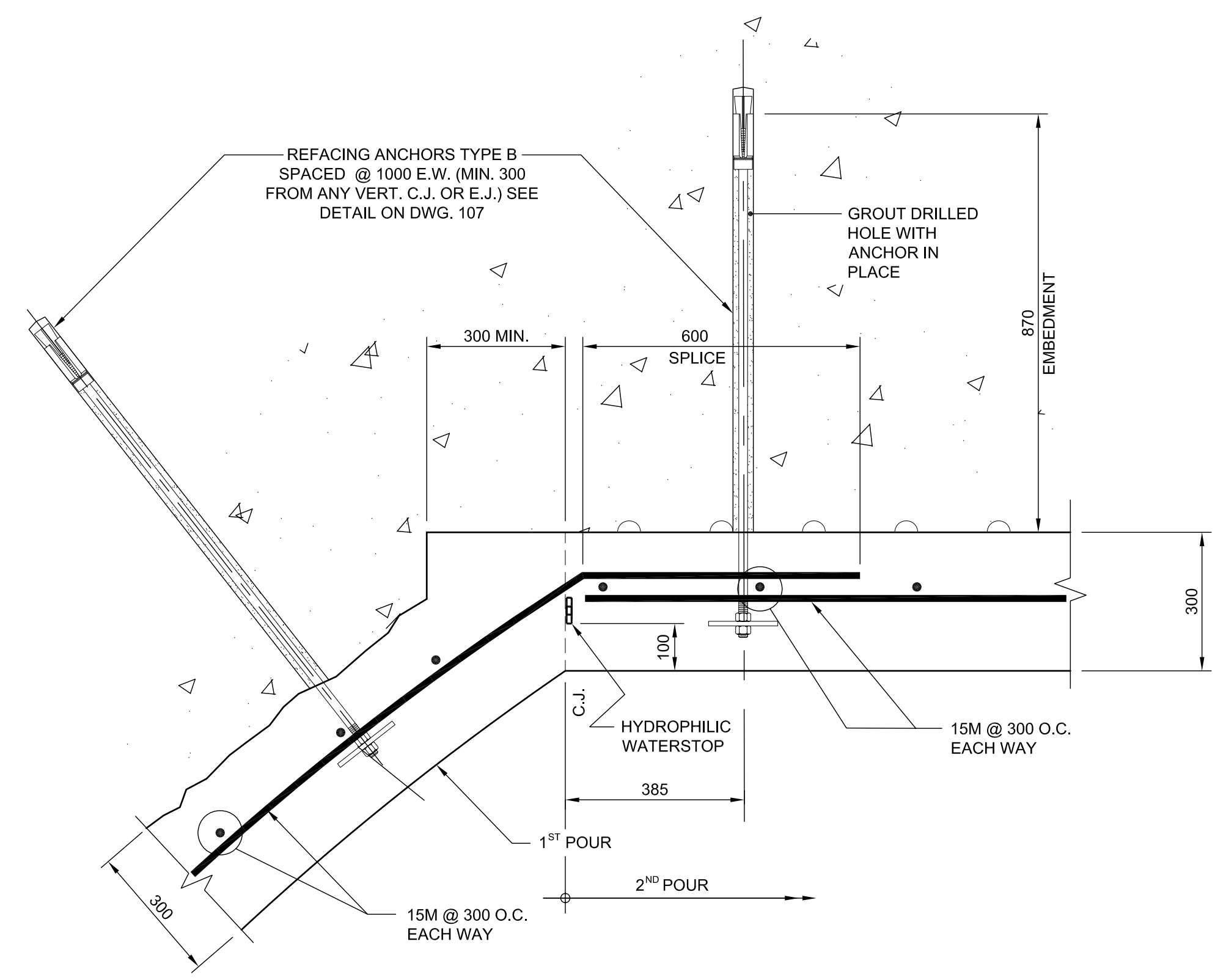
Sheet / Feuille 10 of 15



BREASTWALL CONCRETE REPAIRS - HORIZONTAL SECTION
1:30
(450mm BELOW TOP OF SILL)



SECTION A
1:30
110



DETAIL 1
1:10
110

No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet

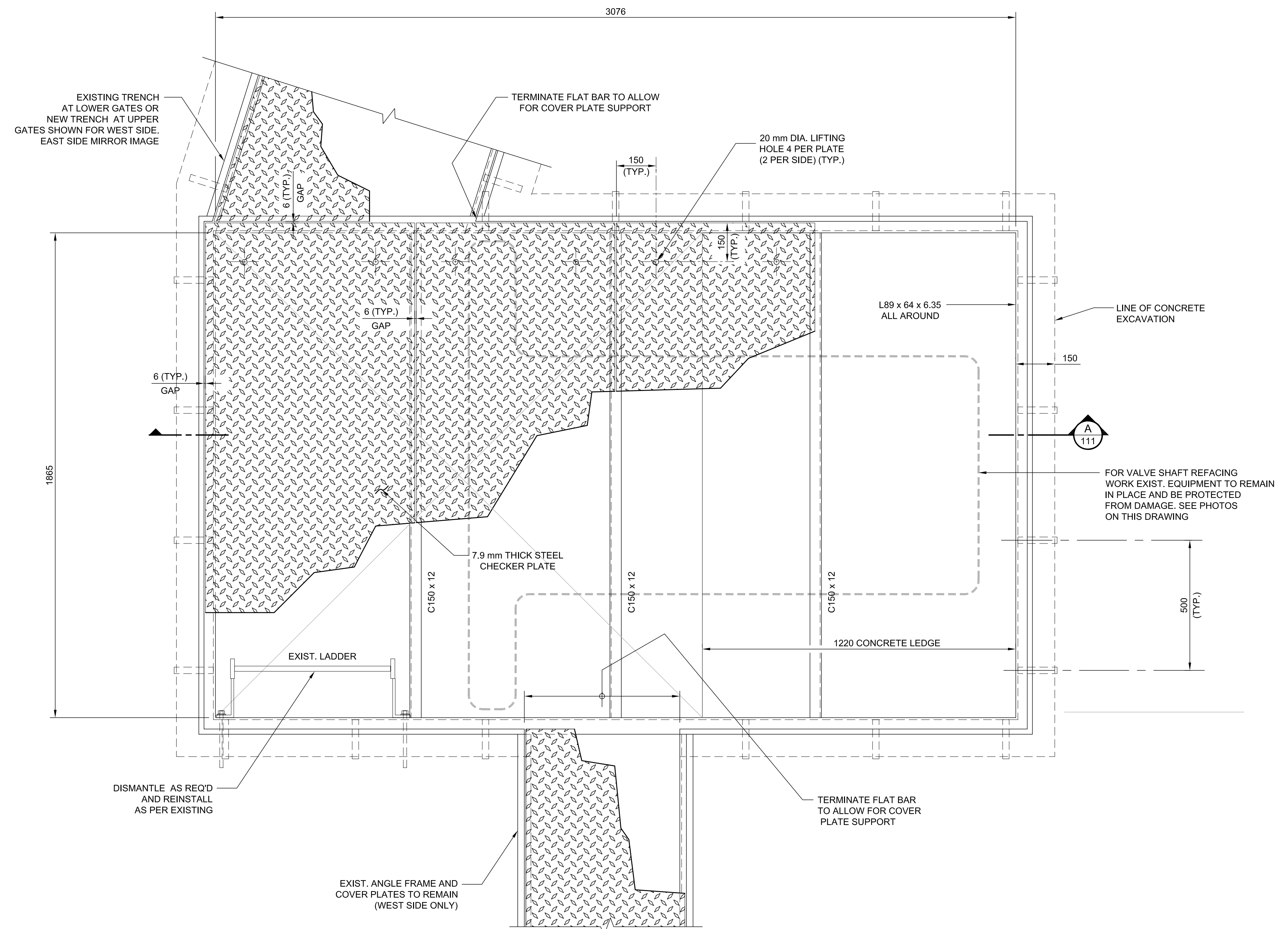
**TSW HEALEY FALLS
LOCK 15
CONCRETE REFRACING**

Drawing title / Titre du dessin

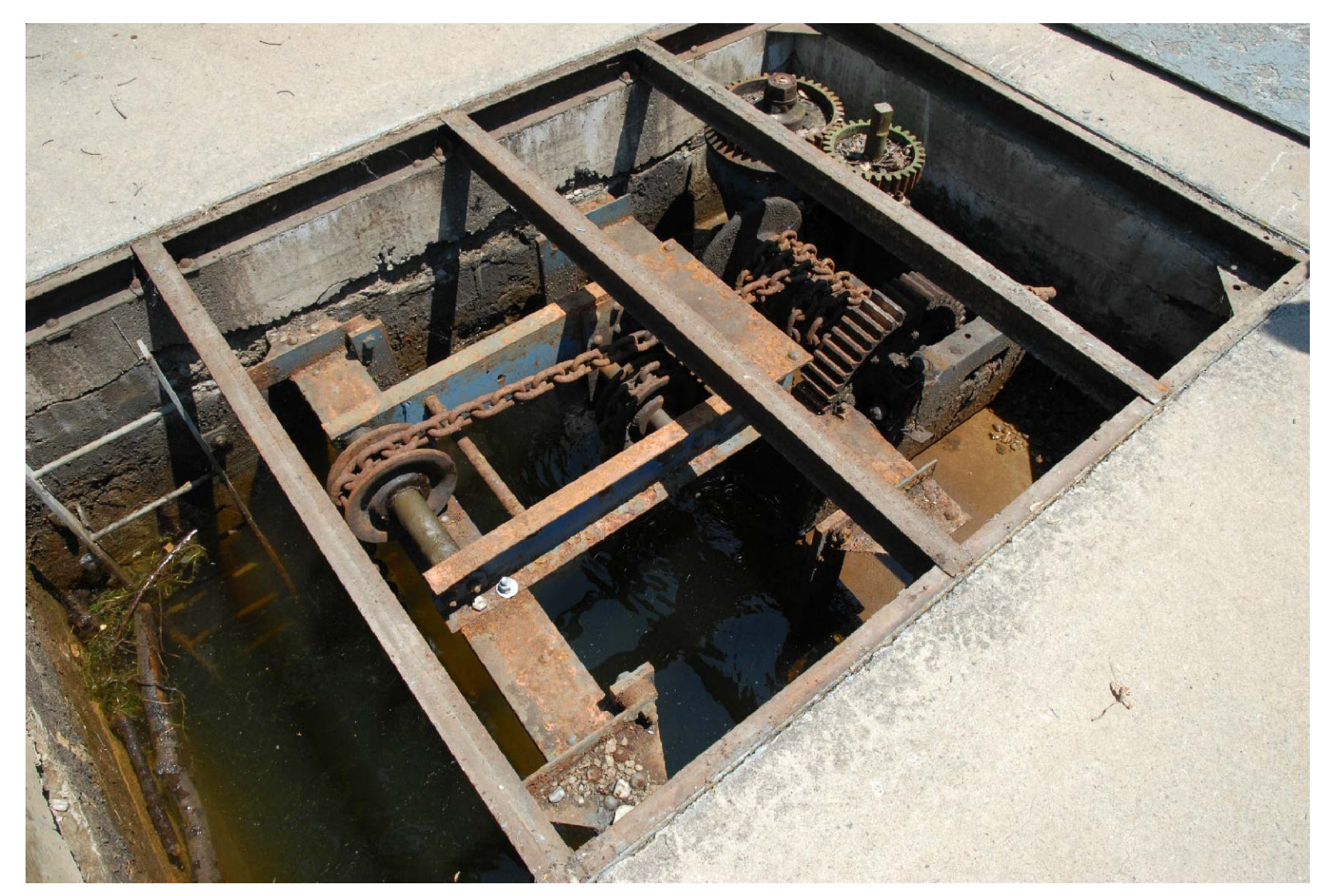
**BREASTWALL SECTIONS
AND DETAIL**

Drawn by / Dessiné par H. CHRZANOWSKI DAVID ROWAN	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 110
	Project Number / Numéro du projet R.063528.001	Sheet / Feuille 11 of 15

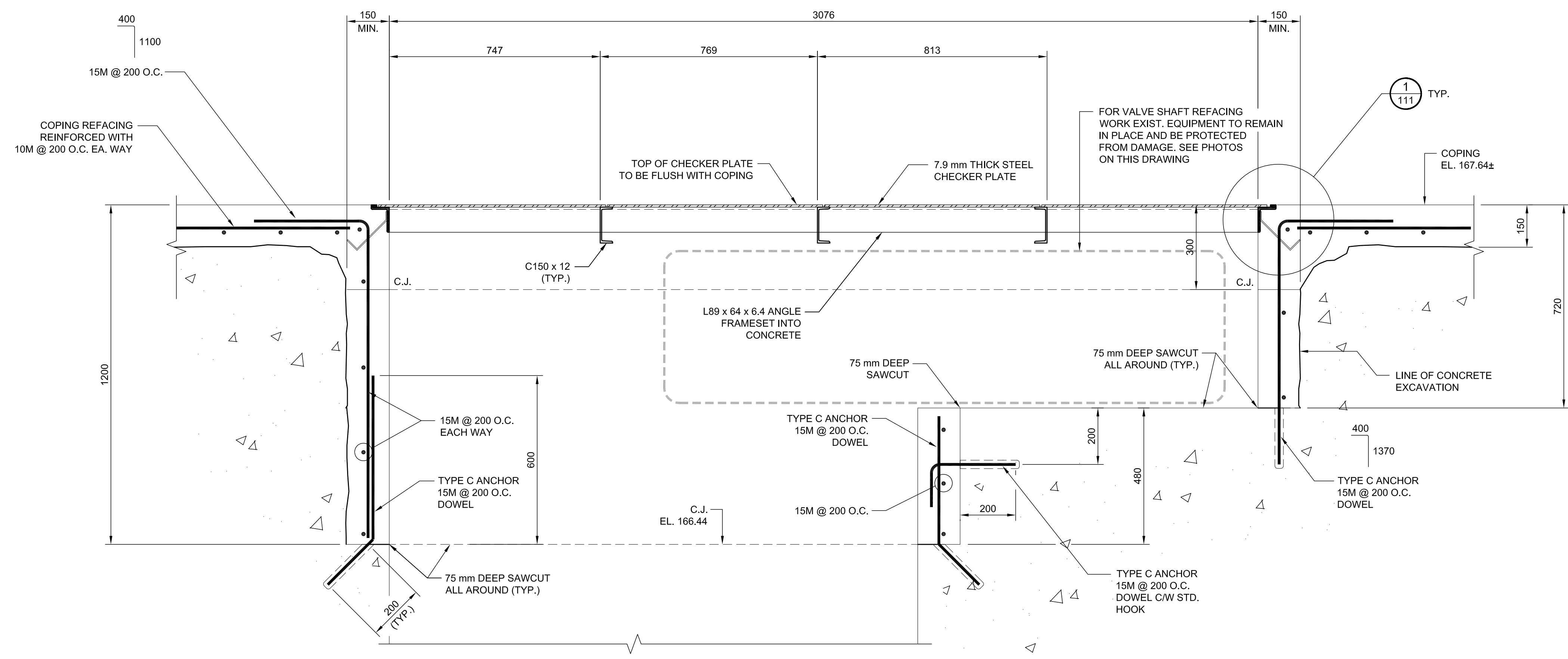


PLAN
1:10
(4 LOCATIONS TOTAL)

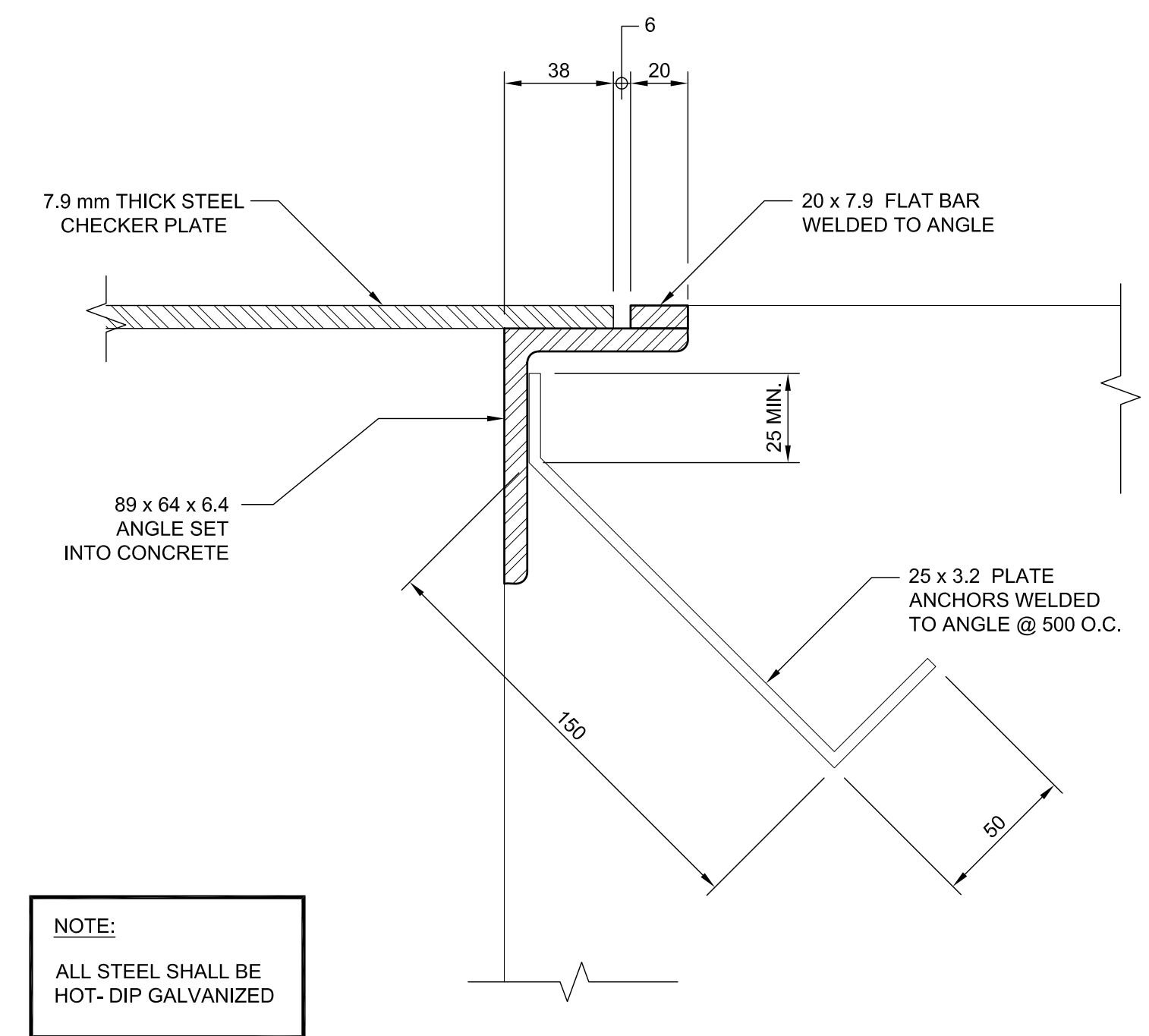


EQUIPMENT IN VALVE SHAFT
TYPICAL 4 LOCATIONS

NOTE:
TEMPORARY SUPPORT EXISTING EQUIPMENT AS REQ'D DURING CONCRETE EXCAVATION AND REFACING



SECTION A
1:10
111



DETAIL 1
1:2
111

No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

Revision / Révision

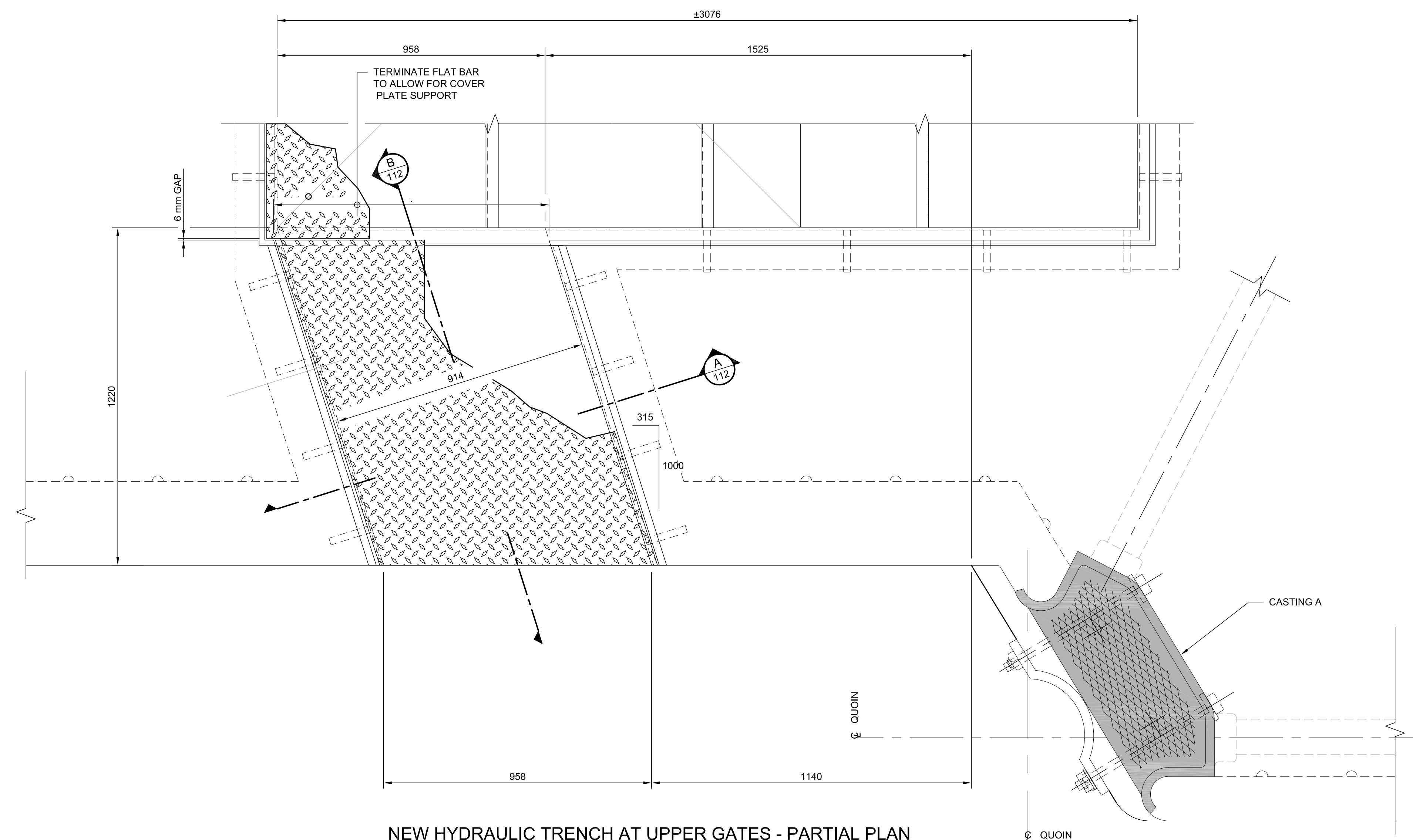
Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

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

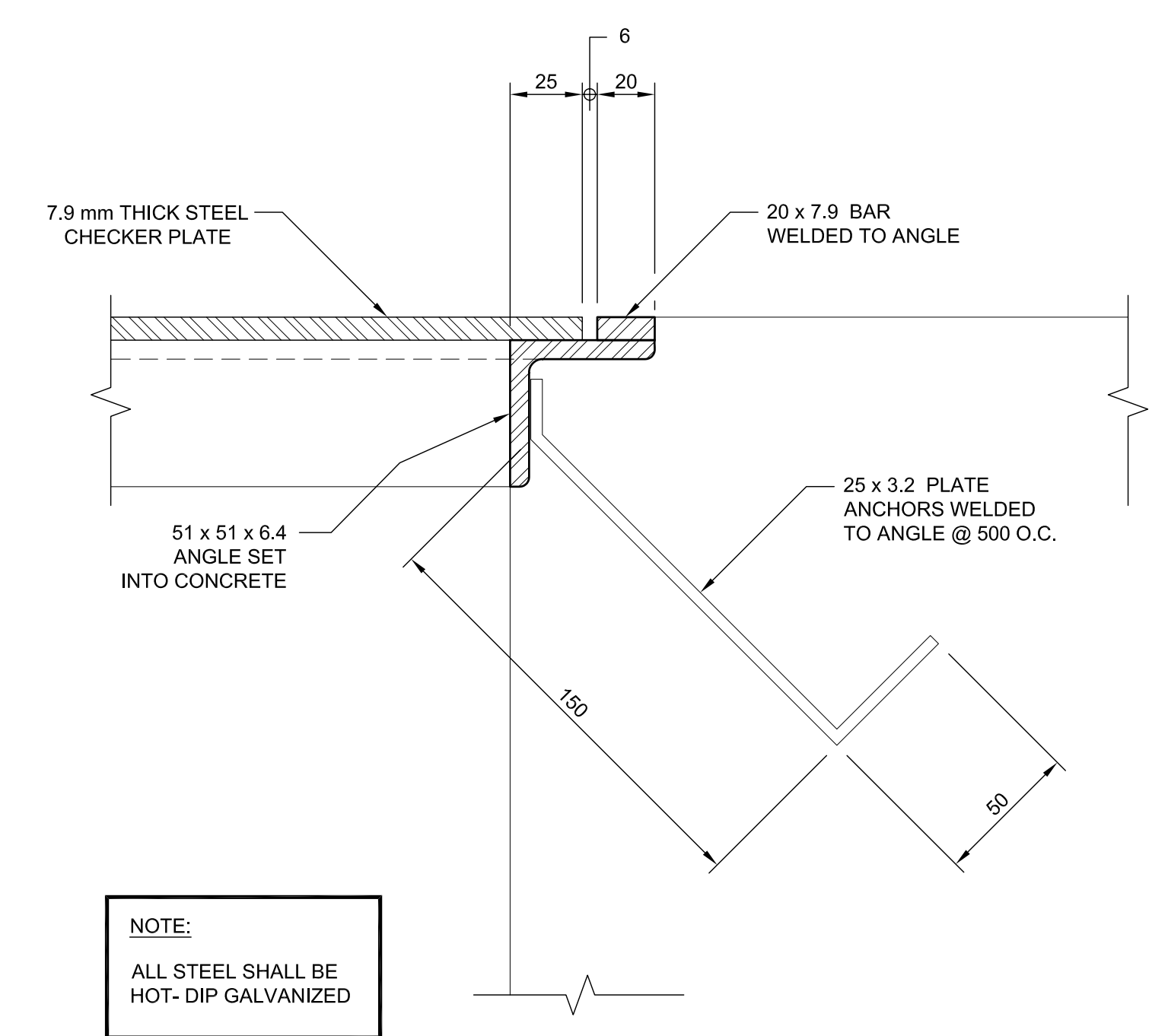
Project title / Titre du projet
**TSW HEALEY FALLS
LOCK 15
CONCRETE REFACING**

Drawing title / Titre du dessin
**NEW FRAME AND COVER
PLATES FOR VALVE SHAFT
PLAN, SECTION AND DETAIL**

Drawn by / Dessiné par HENRYK CHRZANOWSKI	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BÉRIault	Drawing Date / Date du dessin JULY 2013
Project manager / Administrateur de projet ATIF SUHAIL	
HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 111
Project Number / Numéro du projet R.063528.001	Sheet / Feuille 12 of / de 15

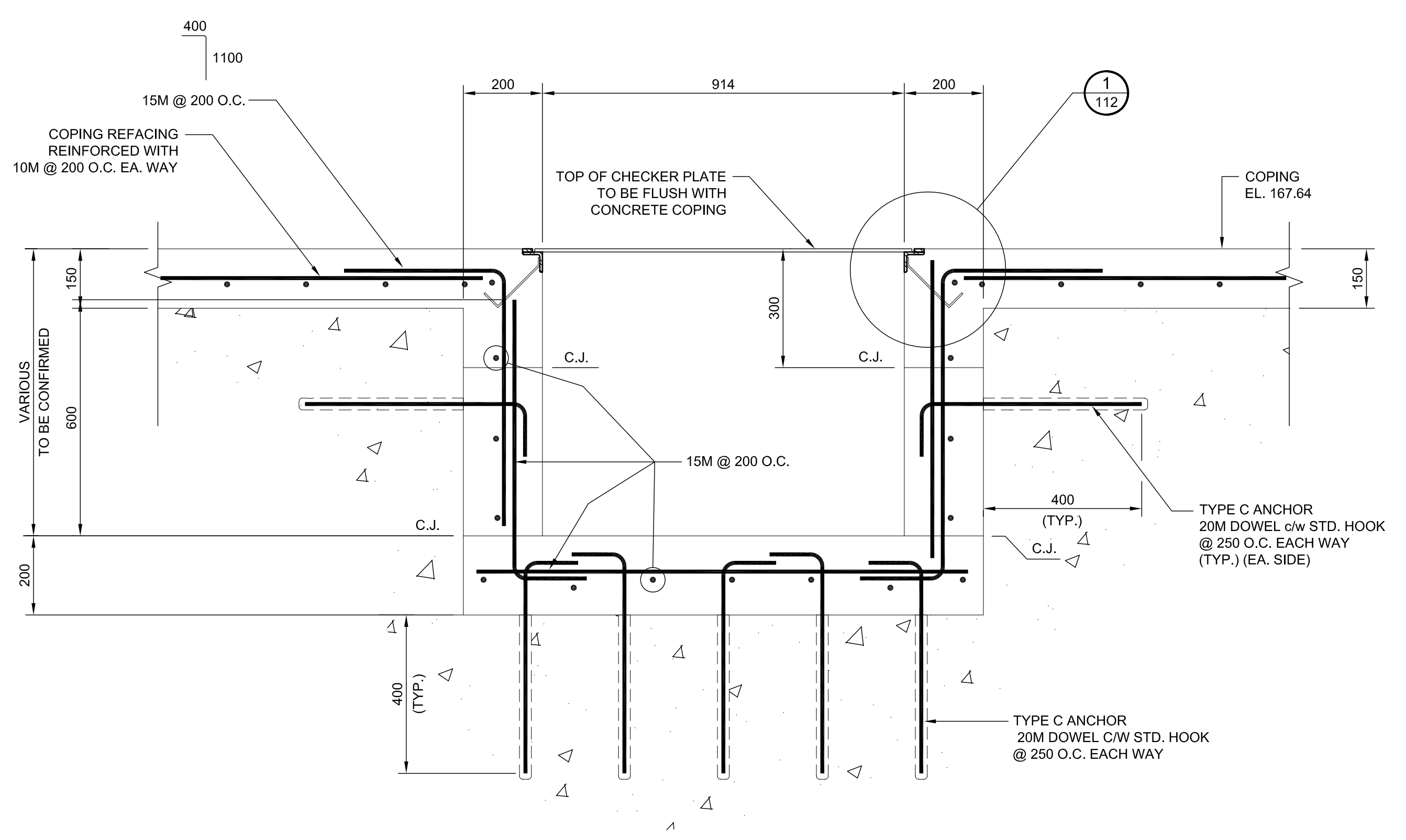


NEW HYDRAULIC TRENCH AT UPPER GATES - PARTIAL PLAN
1:10
(EAST SIDE TRENCH SHOWN)
(WEST SIDE MIRROR IMAGE)

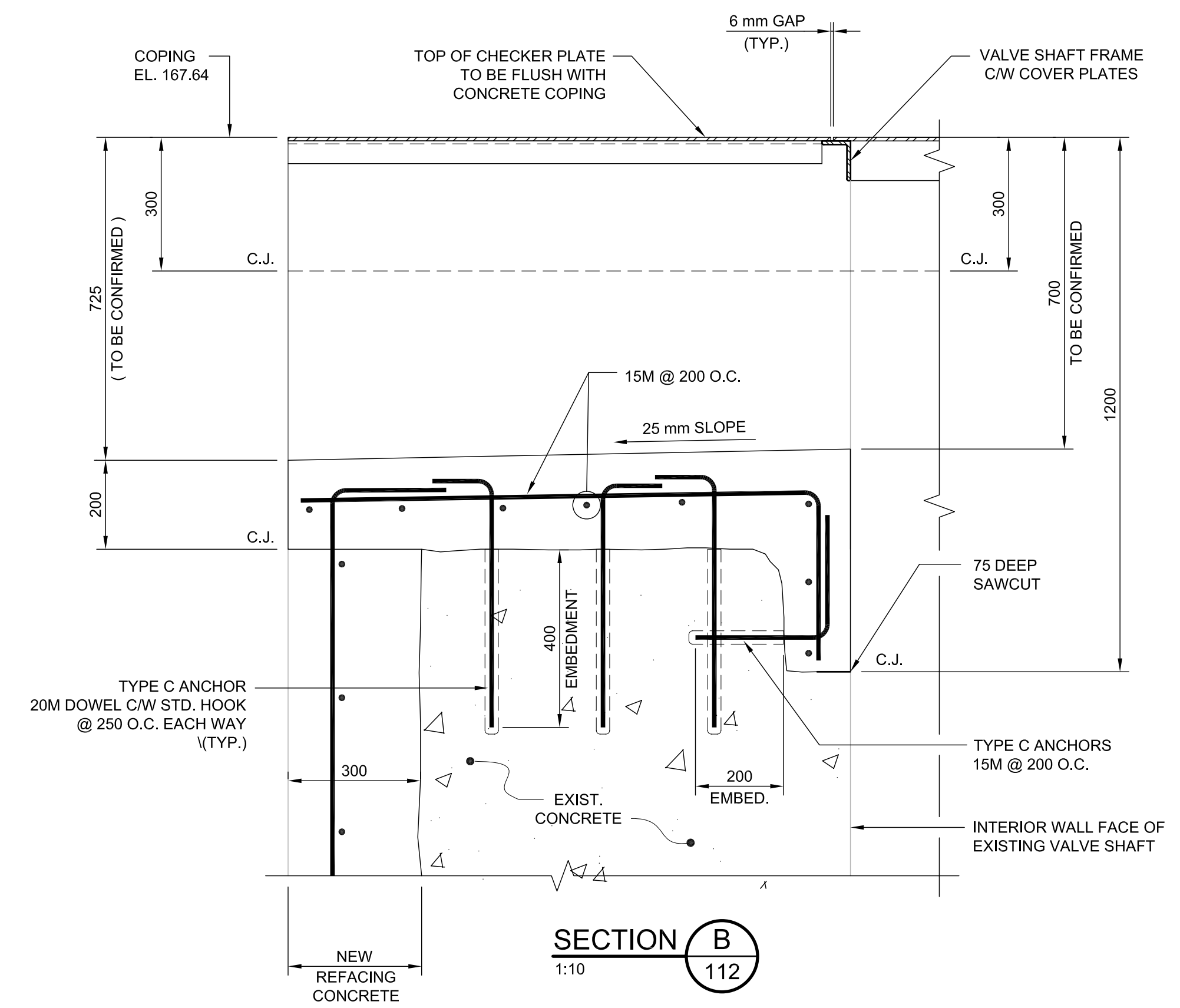


NOTE:
ALL STEEL SHALL BE
HOT-DIP GALVANIZED

DETAIL 1
1:2



SECTION A
1:10



SECTION B
1:10

No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

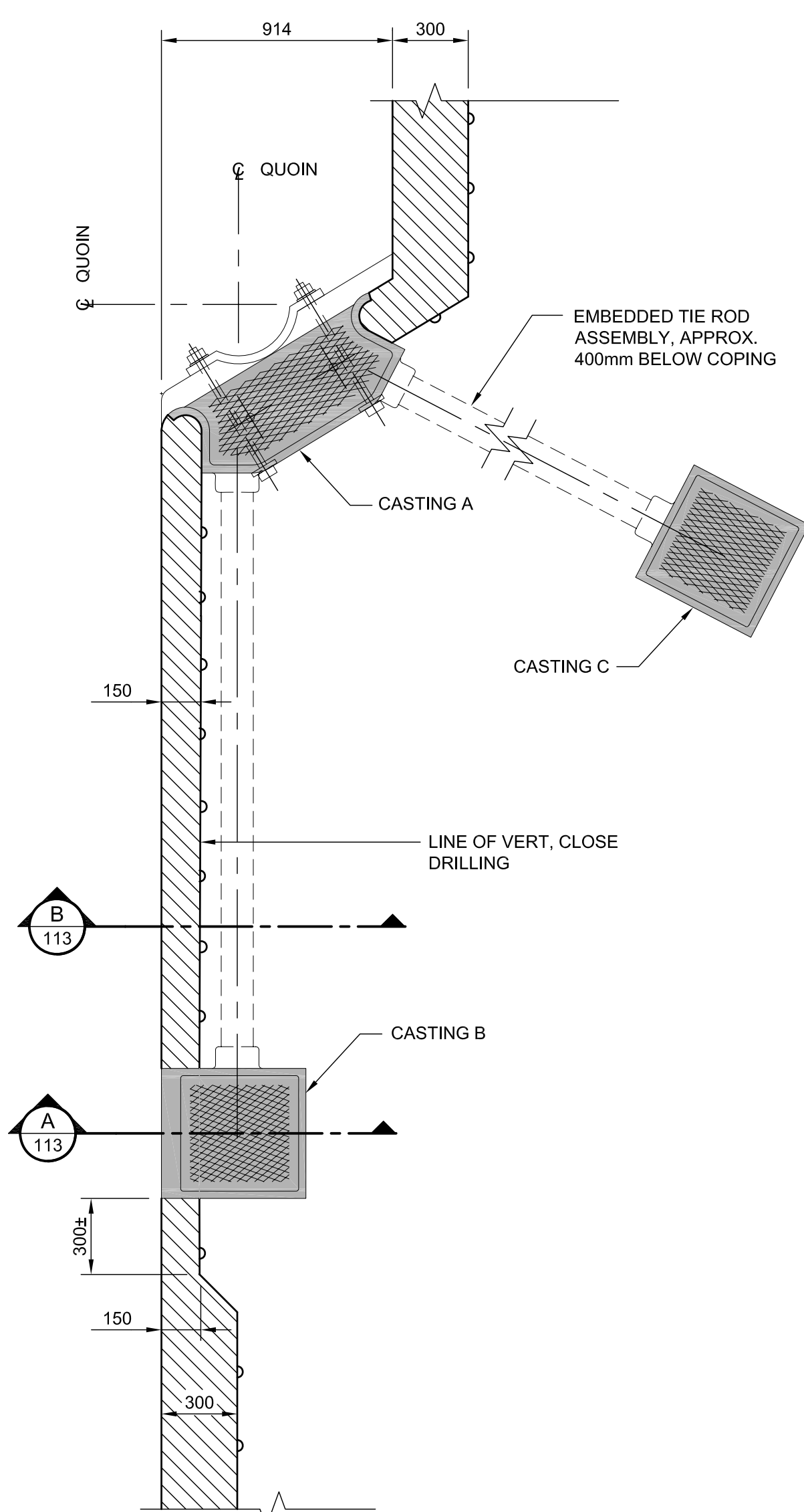
A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

Project title / Titre du projet
TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

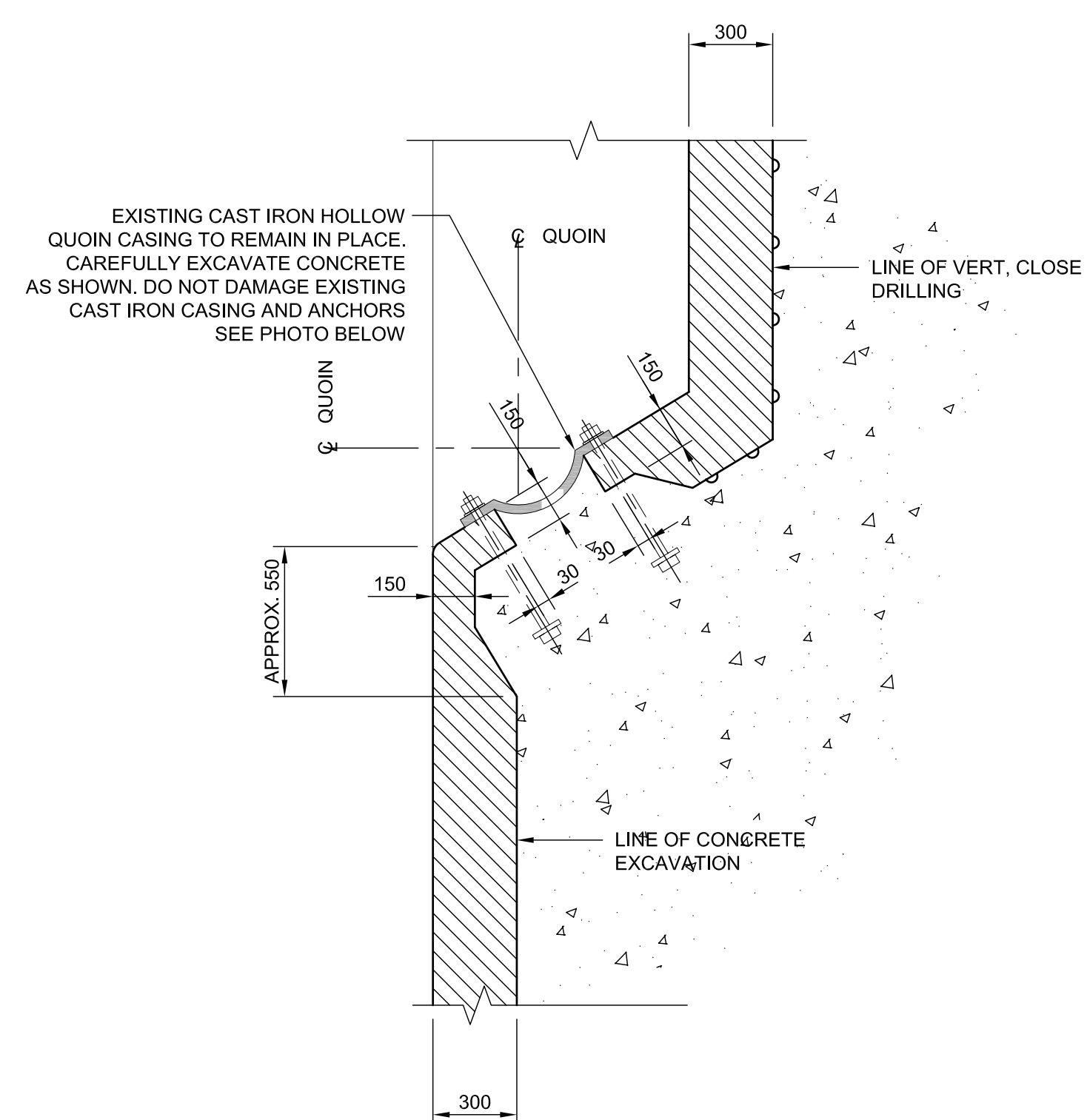
Drawing title / Titre du dessin
NEW HYDRAULIC TRENCH AT UPPER GATES PLAN, SECTIONS AND DETAIL

Drawn by / Dessiné par HENRYK CHRZANOWSKI	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013

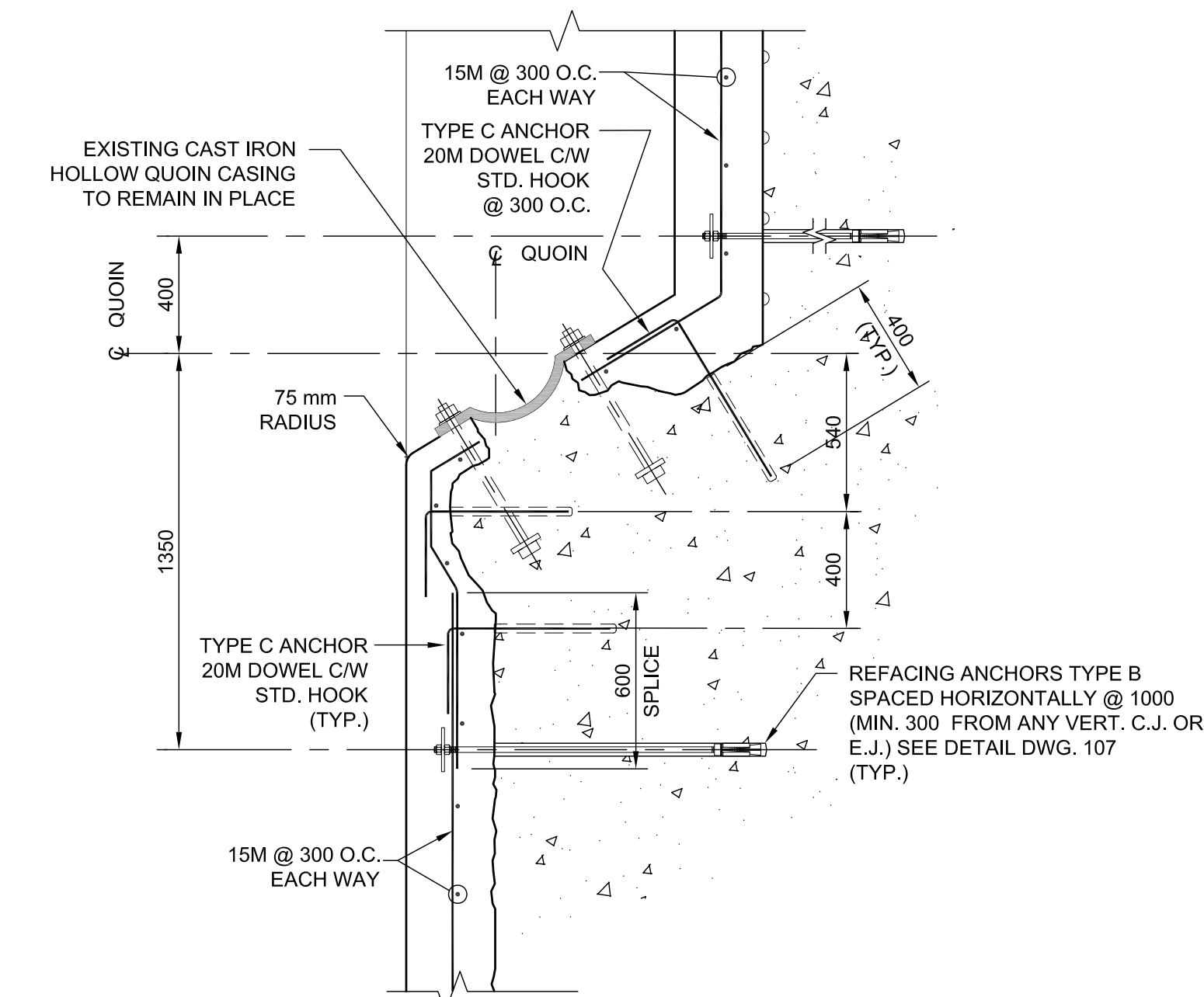
Project manager / Administrateur de projet ATIF SUHAIL	Drawing Number / Numéro du Dessin 112
HCEW Number / Numéro de CHTI COTSW 13 - R03	Sheet / Feuille 13 of 15
Project Number / Numéro du projet R.063528.001	



PARTIAL PLAN - CONCRETE EXCAVATION AT COPING
1:20



PLAN - CONCRETE EXCAVATION AT HOLLOW QUOIN CASING
1:20



PLAN - CONCRETE REFACING AT HOLLOW QUOIN CASING
1:20

LEGEND:

CONCRETE TO BE EXCAVATED

No.	Description	Des.Par	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet

TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

Drawing title / Titre du dessin

CONCRETE REFACING CASTING A AND B PLANS AND SECTIONS

Drawn by / Dessiné par HENRYK CHRZANOWSKI	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013
Project manager / Administrateur de projet ATIF SUHAIL	
HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 113
Project Number / Numéro du projet R.063528.001	Sheet / Feuille 14 of 15

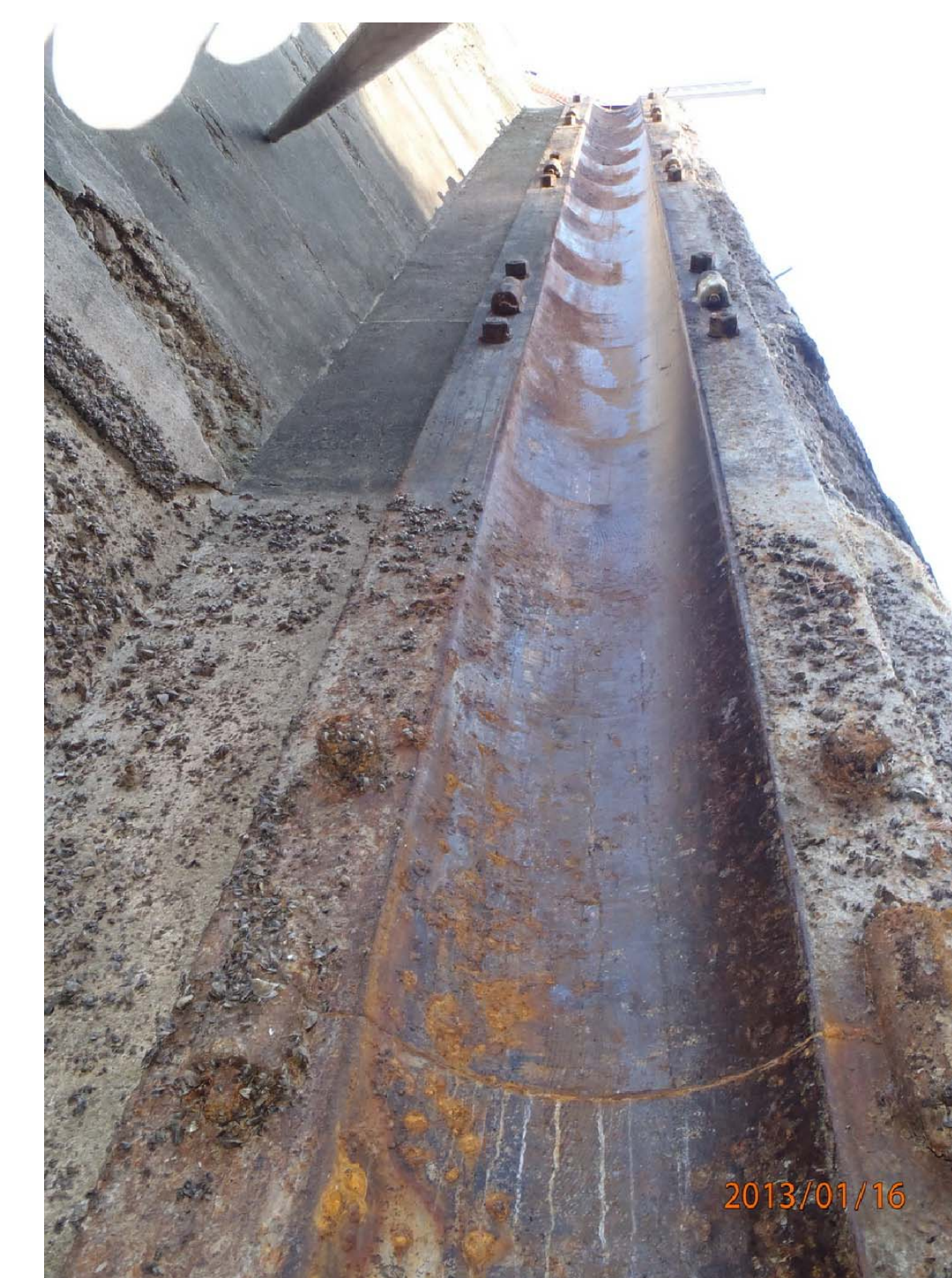
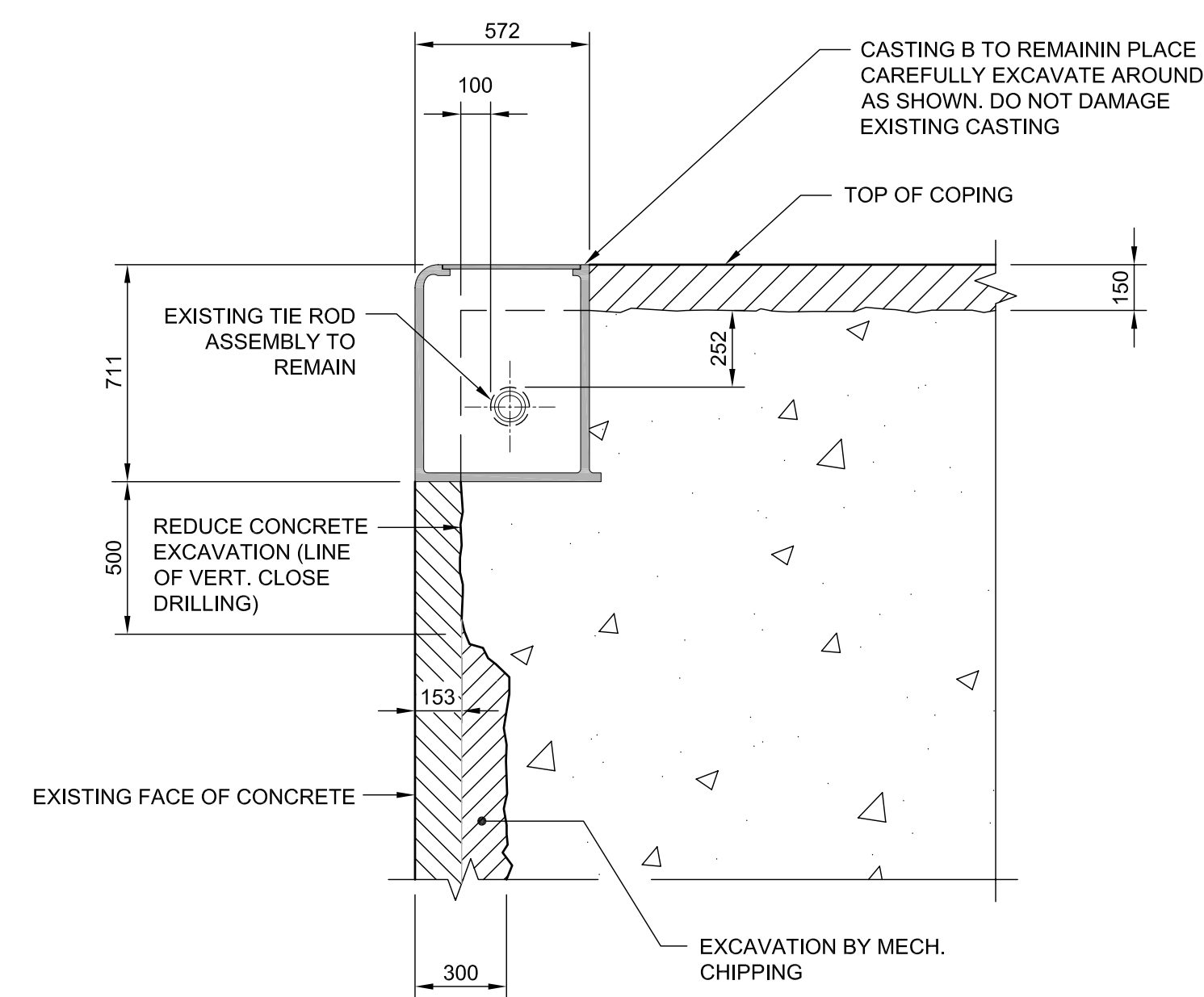
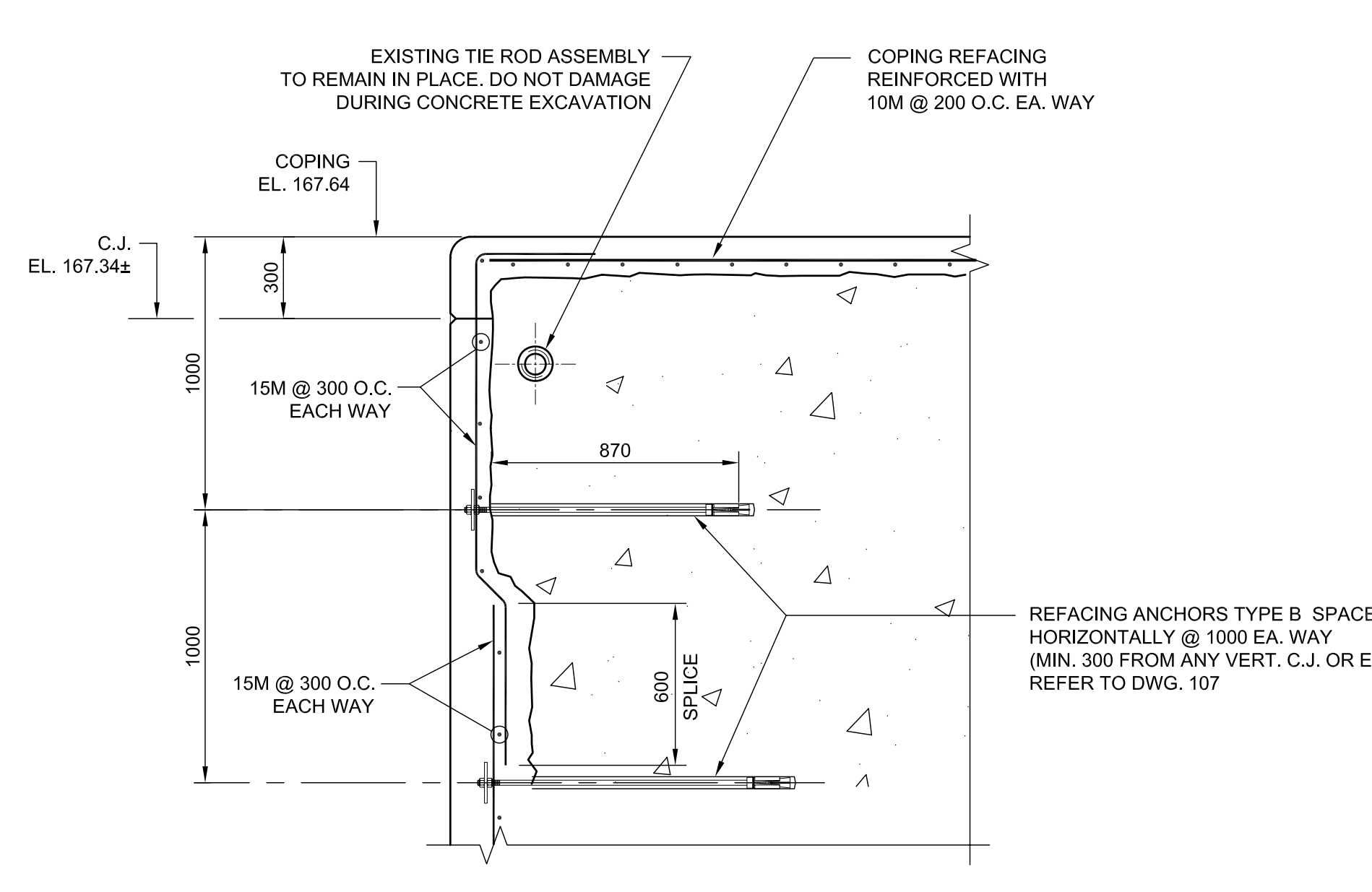


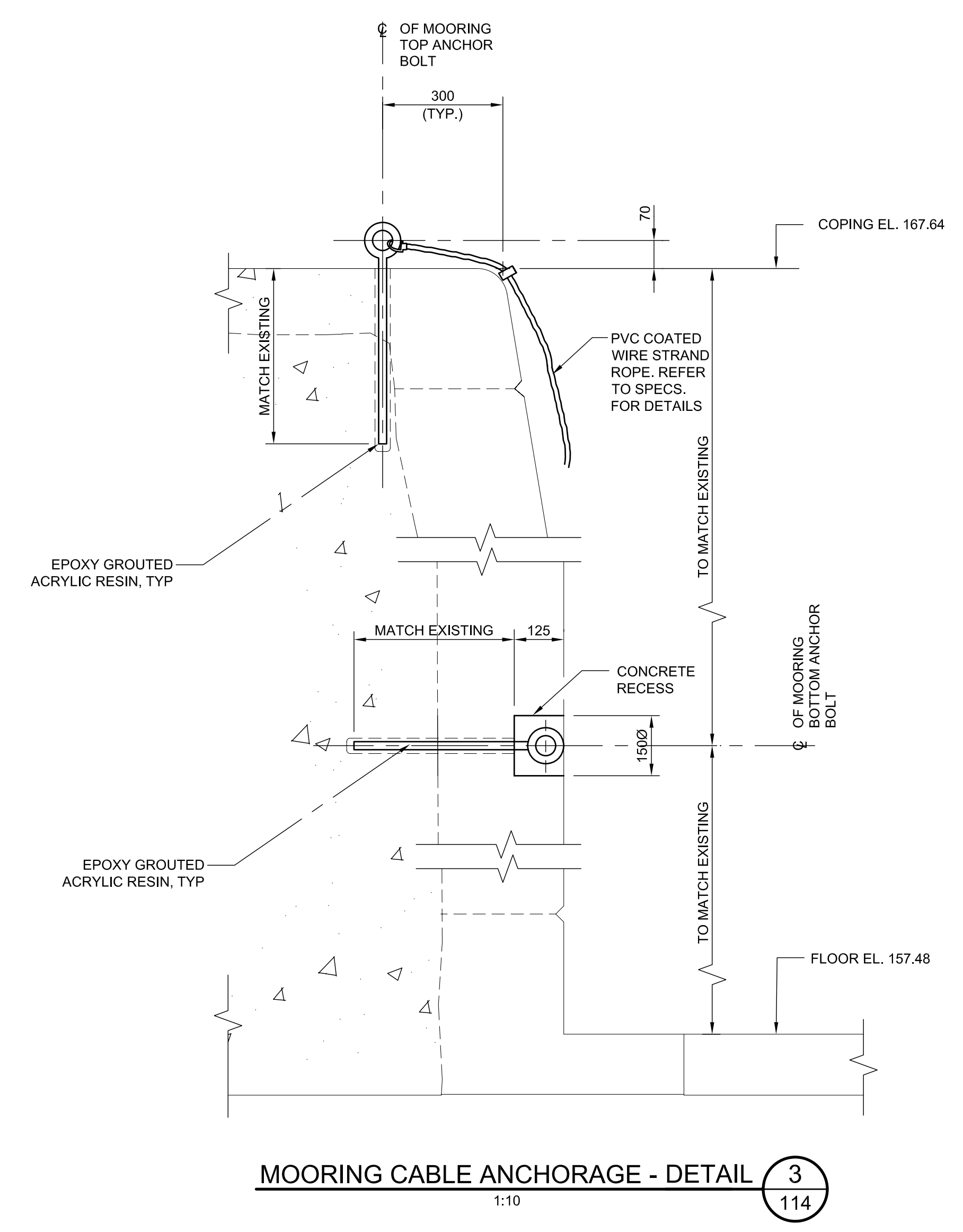
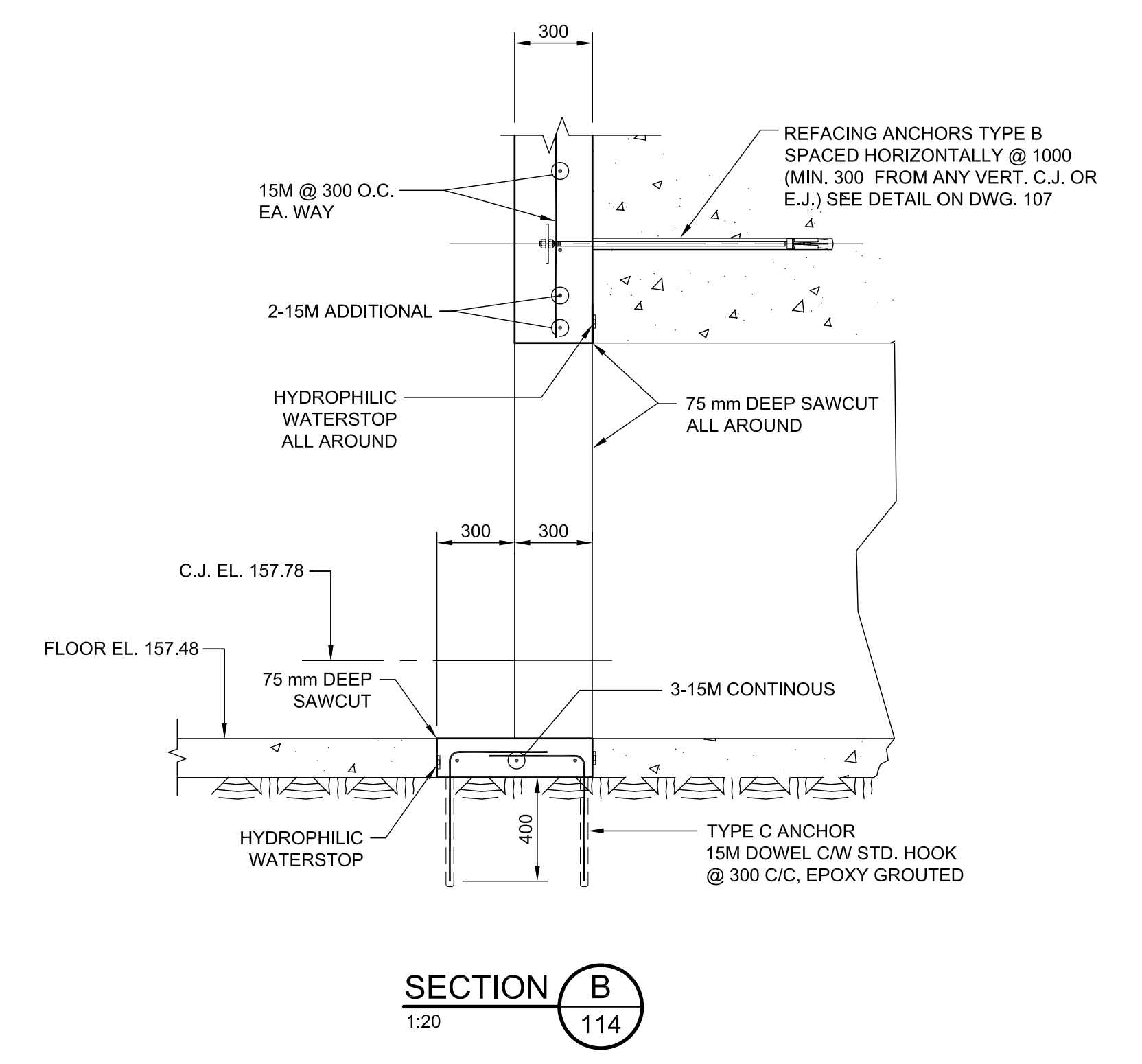
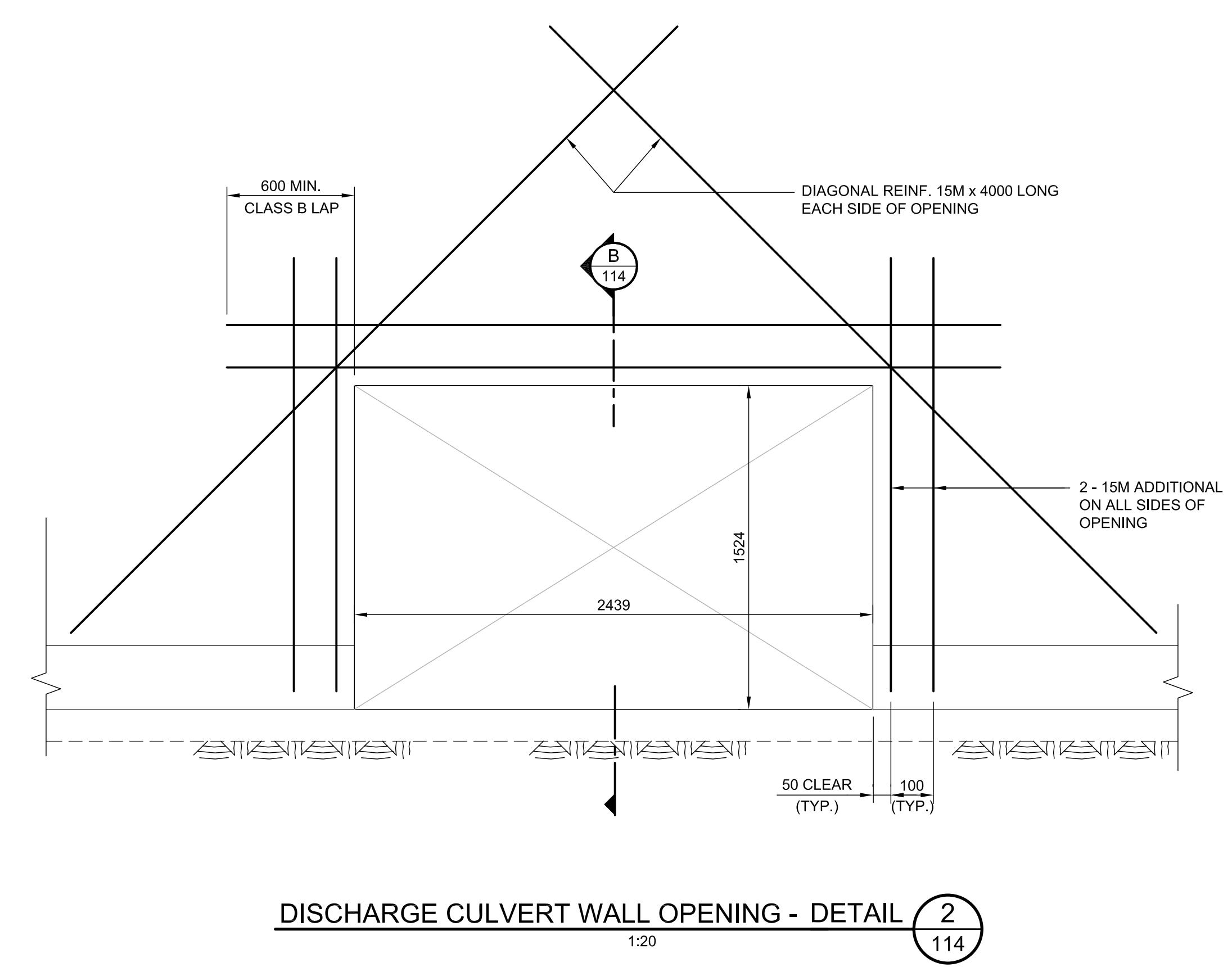
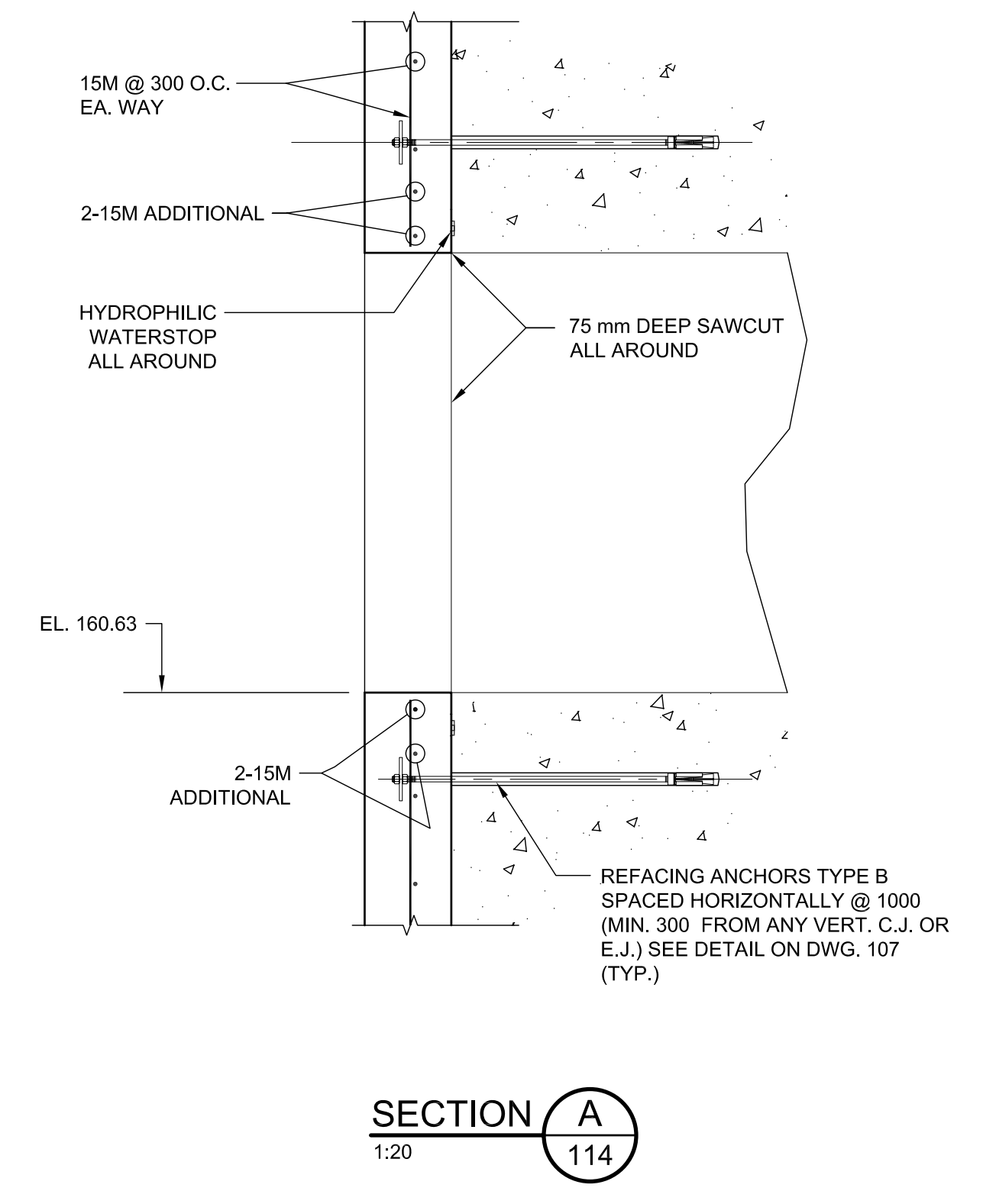
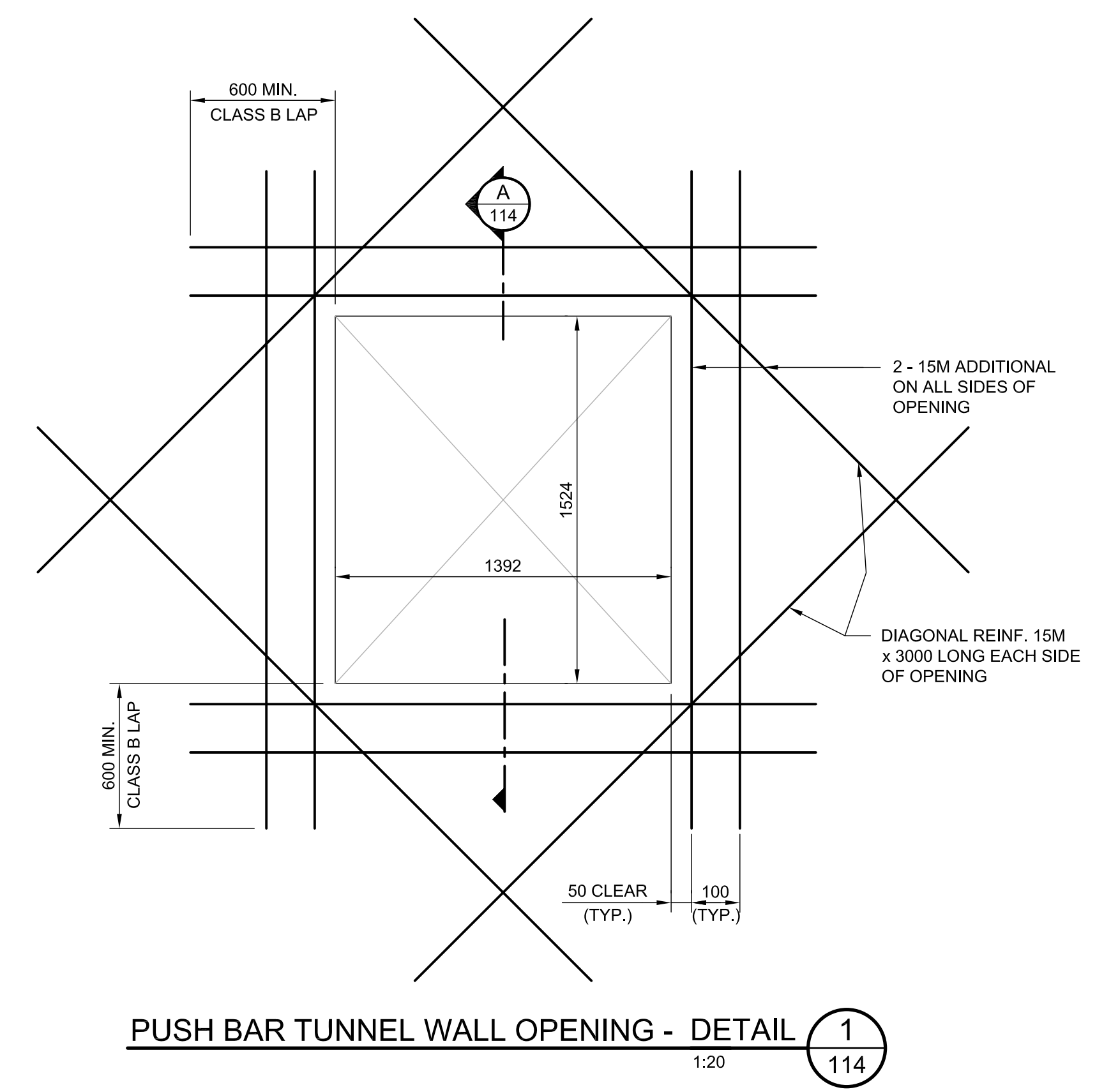
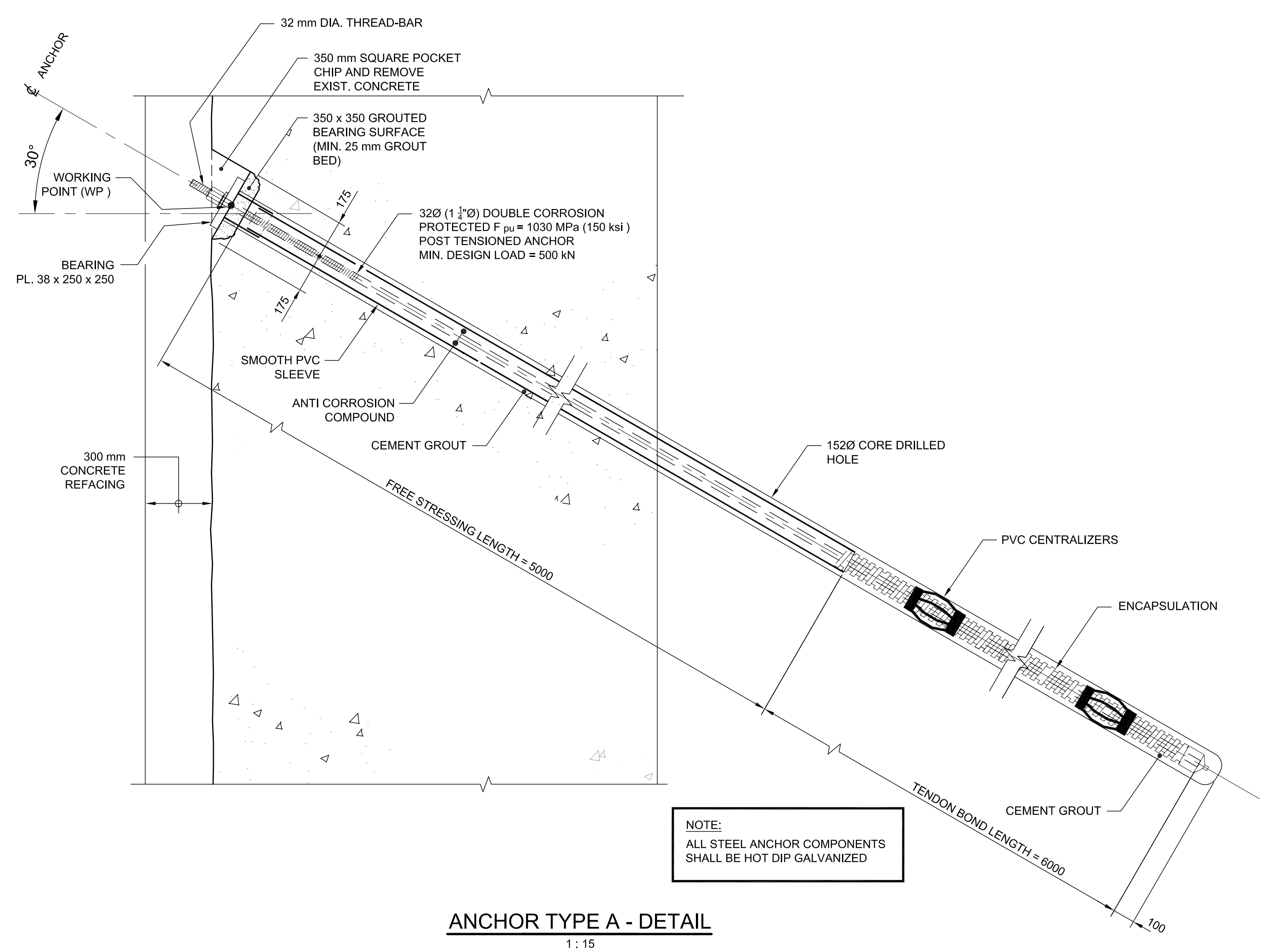
PHOTO SHOW EXISTING CAST IRON HOLLOW QUOIN CASING TO REMAIN IN PLACE



CONCRETE EXCAVATION - SECTION A
1:20



CONCRETE REFACING - SECTION B
1:20



No.	Description	Des.By	Date
2	FOR TENDER	C.C.	09-08-2013
1	FOR REVIEW	C.C.	08-08-2013

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

Project title / Titre du projet
TSW HEALEY FALLS LOCK 15 CONCRETE REFACING

Drawing title / Titre du dessin
CONCRETE REFACING ANCHOR TYPE A DETAIL

Drawn by / Dessiné par HENRYK CHRZANOWSKI	Designed by / Conçu par CZESLAW CUDOWSKI
Approved by / Approuvé par LUC BERIAULT	Drawing Date / Date du dessin JULY 2013

Project manager / Administrateur de projet ATIF SUHAIL	HCEW Number / Numéro de CHTI COTSW 13 - R03	Drawing Number / Numéro du Dessin 114
	Project Number / Numéro du projet R.063528.001	Sheet / Feuille 15 of 15