

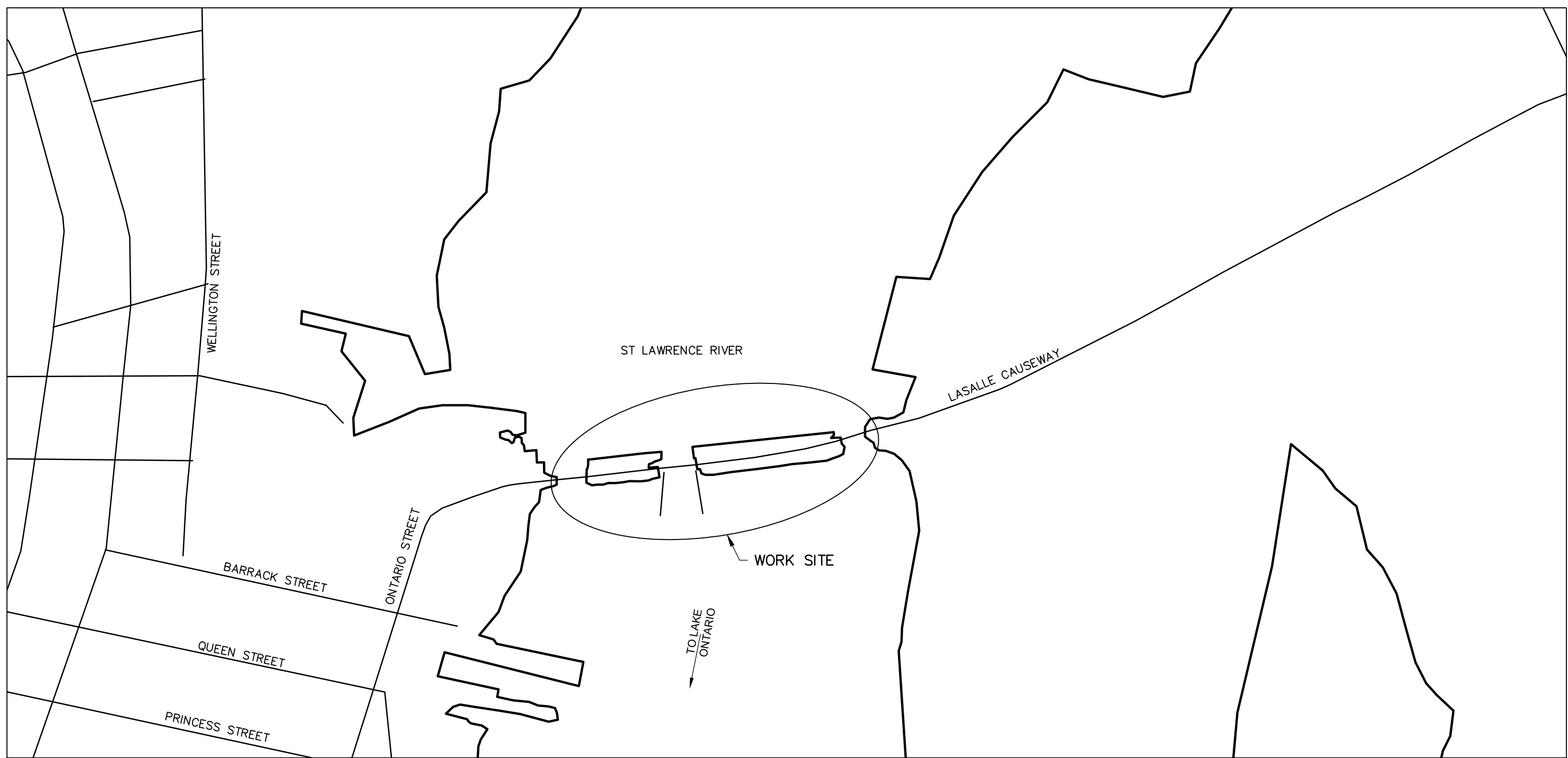


Public Works and
Government Services
Canada

Architectural and
Engineering Services

Ontario Region

LASALLE CAUSEWAY KINGSTON, ONTARIO



SITE PLAN

LSC CONCRETE REPAIRS

PWGSC Proj. No.: R.101343.040

Canada

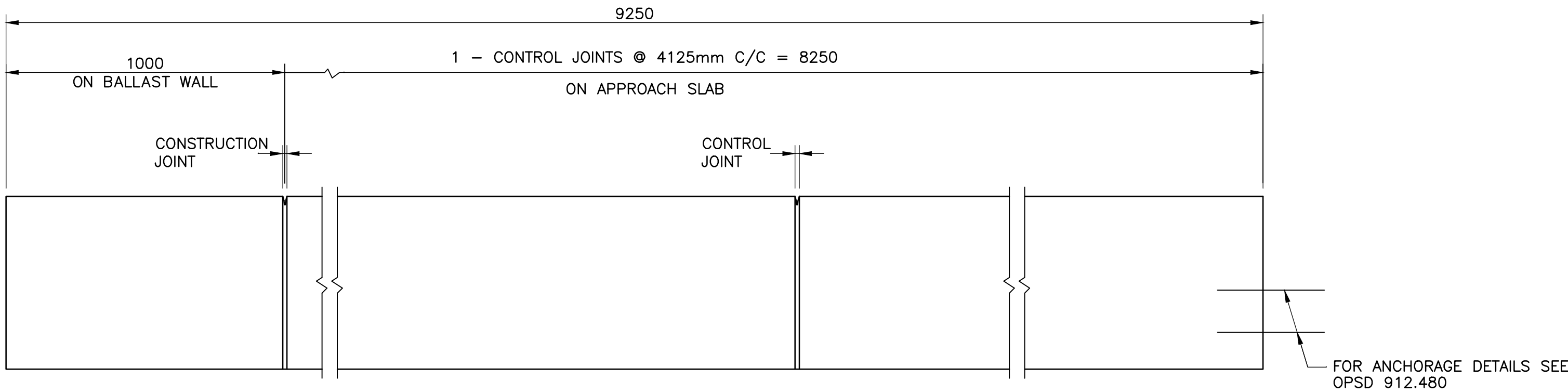
LIST OF DRAWINGS

- CIVIL
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 - C02 TRAFFIC CONTROL PLAN II
 - C03 TRAFFIC CONTROL PLAN III
 - C04 CONSTRUCTION STAGING AREA
 - C05 ALIGNMENT DETAILS
 - C06 REMOVALS
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 - C08 PAVEMENT ELEVATIONS
 - C09 NON-STANDARD DETAILS
 - C10 UTILITY AND STORM REMEDIATION PLAN
- STRUCTURAL
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 - S02 GENERAL NOTES
 - S03 CONCRETE REPAIR AT EAST BRIDGE, SOUTH FASCIA AND CANTILEVER
 - S04 CONCRETE REPAIR AT BASCULE BRIDGE MACHINE ROOM SLAB SOFFIT
 - S05 CONCRETE REPAIR & HANDRAIL REPLACEMENT AT CONTROL ROOM
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 - S09 BASCULE BRIDGE WEST APPROACH REMOVALS
 - S10 BASCULE BRIDGE WEST APPROACH CONCRETE BARRIER DETAILS
 - S11 PARAPET WALL AT BASCULE BRIDGE EAST APPROACH
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 - S13 BARRIER WALL AT BASCULE BRIDGE WEST APPROACH
 - S14 WEST WHARF RETAINING WALL REMOVALS
 - S15 WEST WHARF RETAINING WALL REPAIRS
 - S16 EAST BRIDGE SOUTH SIDEWALK REPAIRS
 - S17 MISCELLANEOUS DETAILS
 - S18 STANDARD DETAILS
 - S19 WEST WHARF ASPHALT PATCH REPAIRS

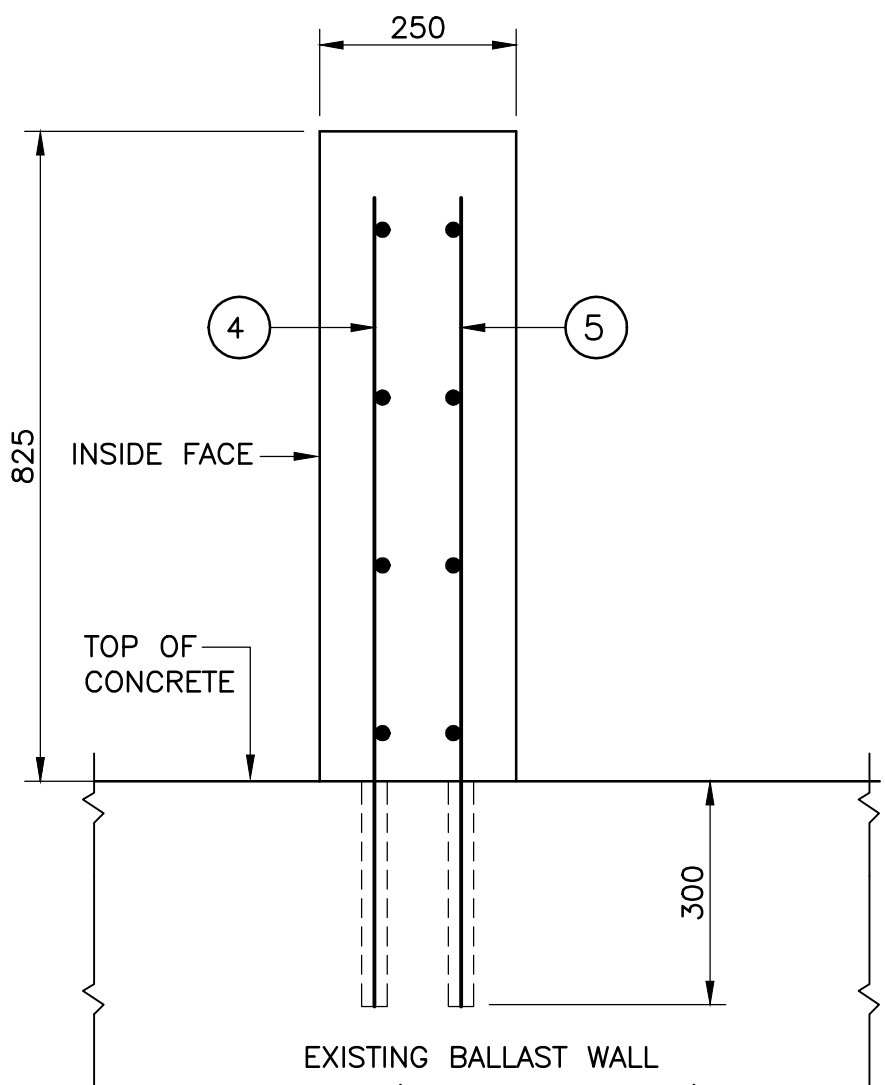




- NOTES:
1. SYSTEM CONFIGURATION MEETS THE REQUIREMENTS OF NCHRP 350.
 2. CHASE REQUIRED ON HIGH AND LOW SIDE OF CROSSFALL.
 3. CONCRETE COVER TO REINFORCING STEEL 60 ±10mm EXCEPT AS NOTED.
 4. REINFORCING STEEL SHALL BE STAINLESS TYPE 316LN OR DUPLEX 2205 WITH A MINIMUM YIELD STRENGTH OF 500 MPa.
 5. BAR LAP SPLICE FOR HORIZONTAL REINFORCEMENT MUST NOT LAP THROUGH CONTROL JOINT.
 6. MINIMUM BAR LAP SPLICE TO BE 550mm.
 7. LENGTH OF HORIZONTAL BAR TO SUIT CONTRACTOR'S OPERATIONS. BAR LENGTHS NEED NOT MATCH DISTANCE BETWEEN CONTROL JOINTS.
 8. CONTROL JOINT TO BE FORMED.
 9. SAWCUTS NOT PERMITTED.
 10. CONTROL JOINT FORM HARDWARE NOT TO BE LEFT IN PLACE.
 11. LEGEND
EF DENOTES EACH FACE
IF DENOTES INSIDE FACE
OF DENOTES OUTSIDE FACE

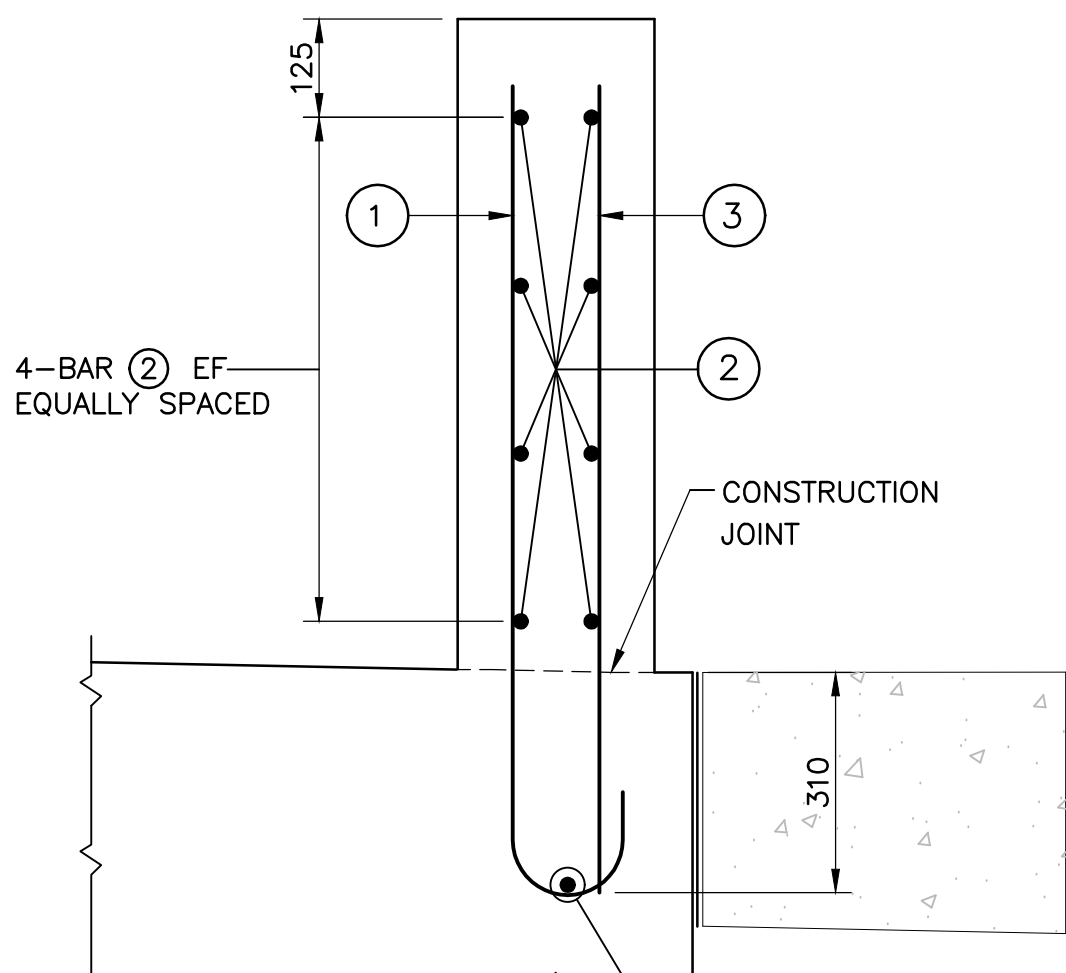


ELEVATION



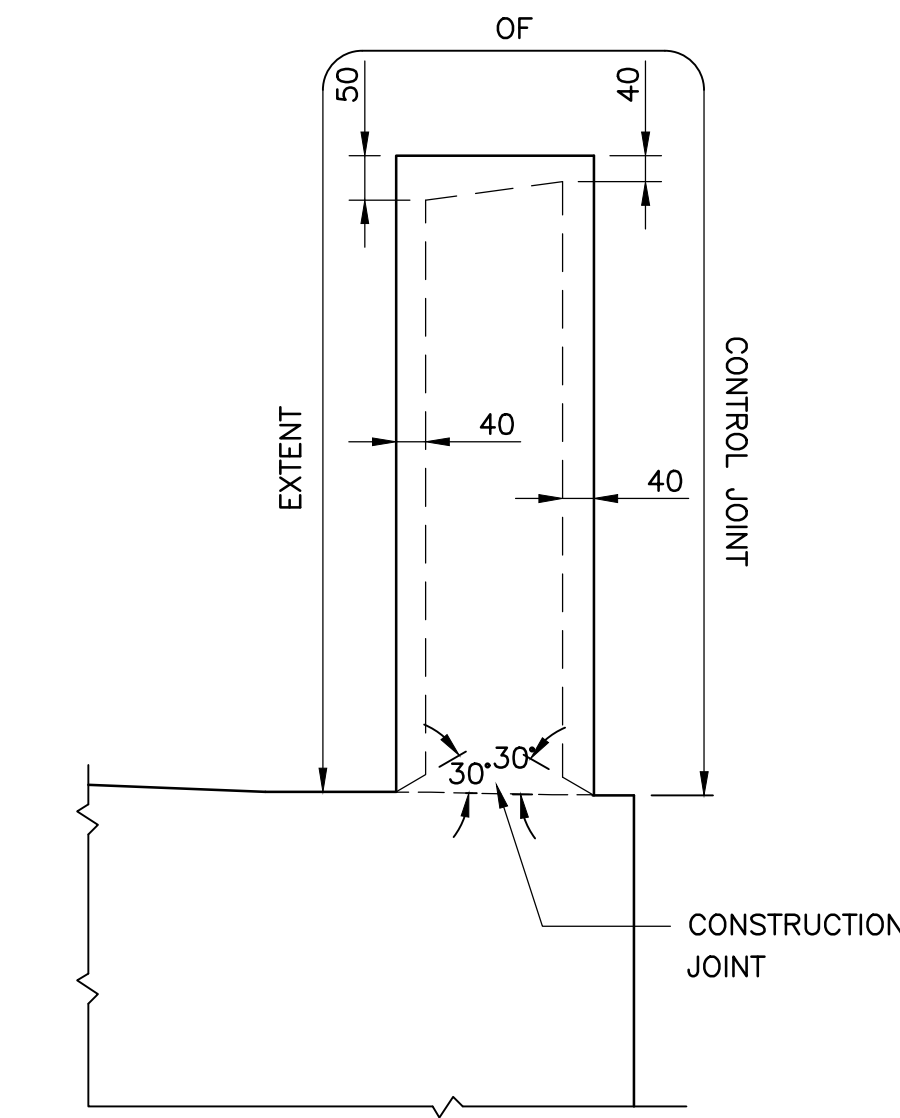
SECTION 1
SCALE 1:10

CONCRETE PARAPET ON BALLAST WALL
TYPICAL DIMENSIONS

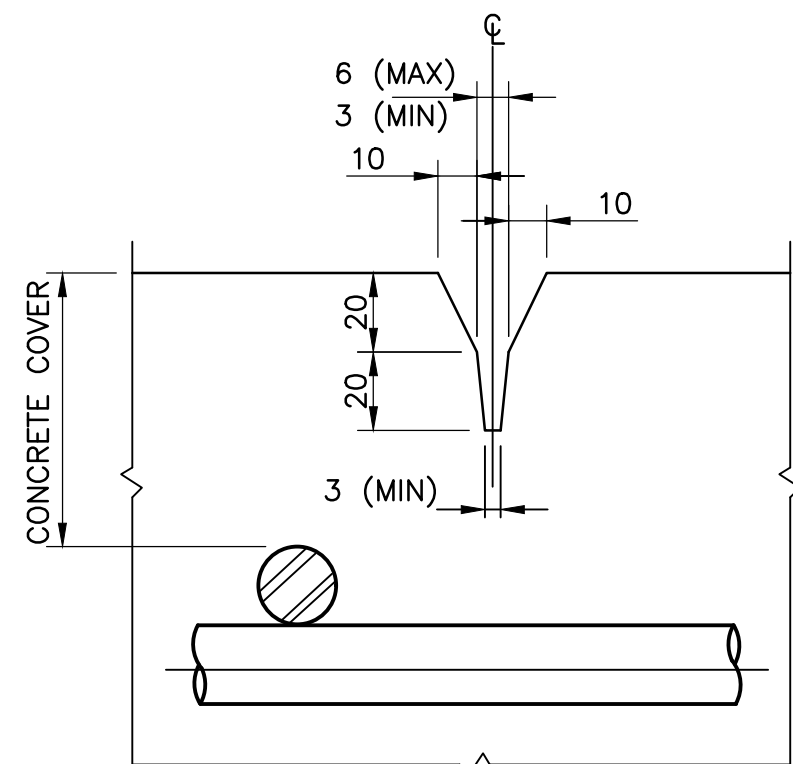


SECTION 2
SCALE 1:10

CONCRETE PARAPET ON EAST APPROACH SLAB
(TYPICAL REINFORCEMENT)

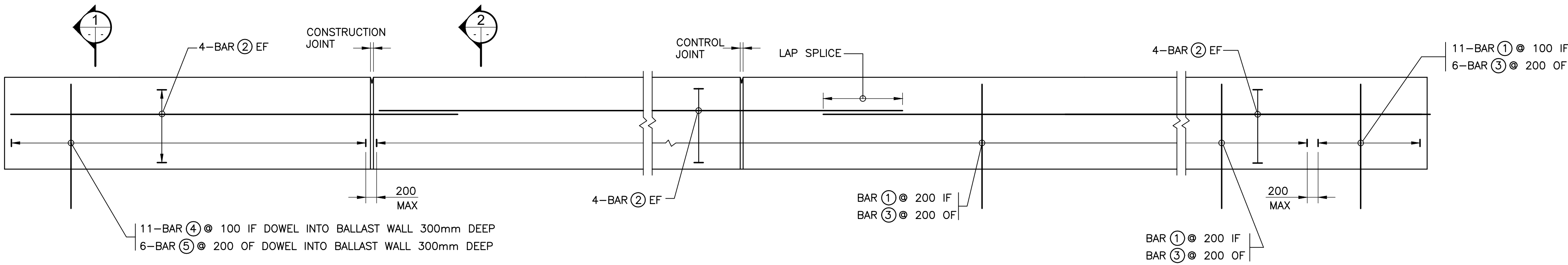


EXTENT OF CONTROL JOINT IN PARAPET WALL

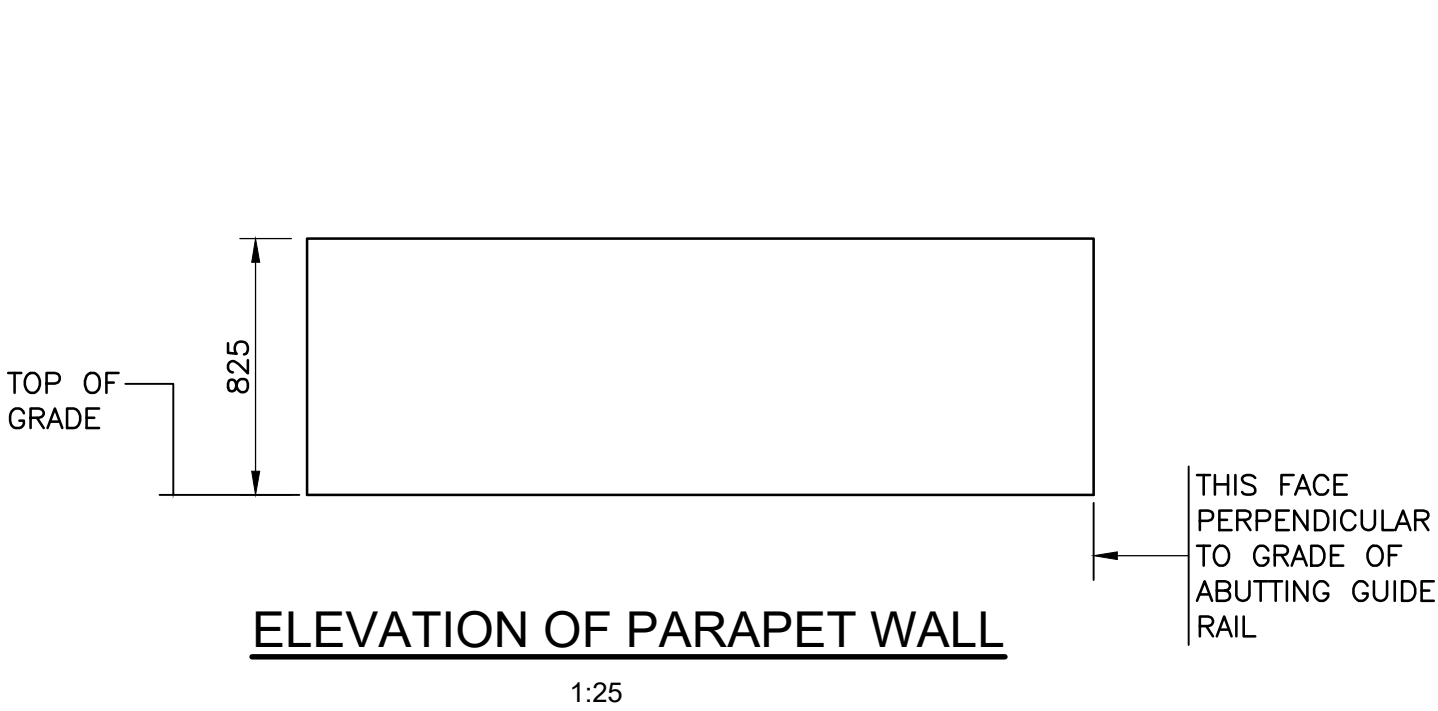


CONTROL JOINT DETAIL
DETAIL / DÉTAIL A
SCALE / ÉCHELLE: 1:5

| BAR MARK | SIZE | SHAPE |
|----------|------|----------------|
| 1 | S15M | |
| 2 | S15M | STRAIGHT |
| 3 | S10M | STRAIGHT |
| 4 | S15M | STRAIGHT DOWEL |
| 5 | S10M | STRAIGHT DOWEL |

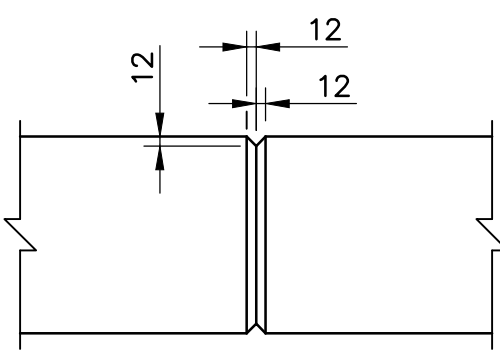


TYPICAL REINFORCING ARRANGEMENT

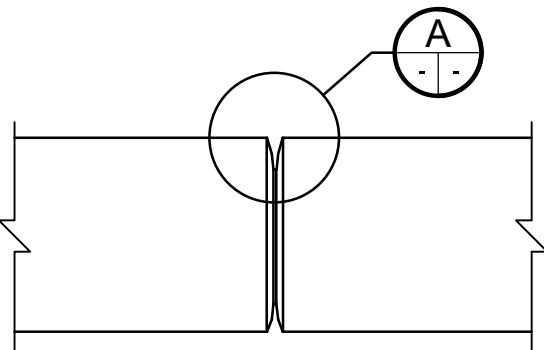


ELEVATION OF PARAPET WALL

1:25



TYPICAL CONSTRUCTION JOINT



TYPICAL CONTROL JOINT

| | | |
|---|---------------------------|----------|
| 1 | ISSUED FOR BID SUBMISSION | 21/09/10 |
|---|---------------------------|----------|

| revision | description | date |
|----------|-------------|------|
|----------|-------------|------|

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| | |
|---|-------------------------------------|
| A | Detail No. |
| B | drawing no. - where detail required |
| C | drawing no. - where detailed |

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

PARAPET WALL AT
BASCULE BRIDGE
EAST APPROACH

drawn by
VINCE GUO

designed by
VINCE GUO

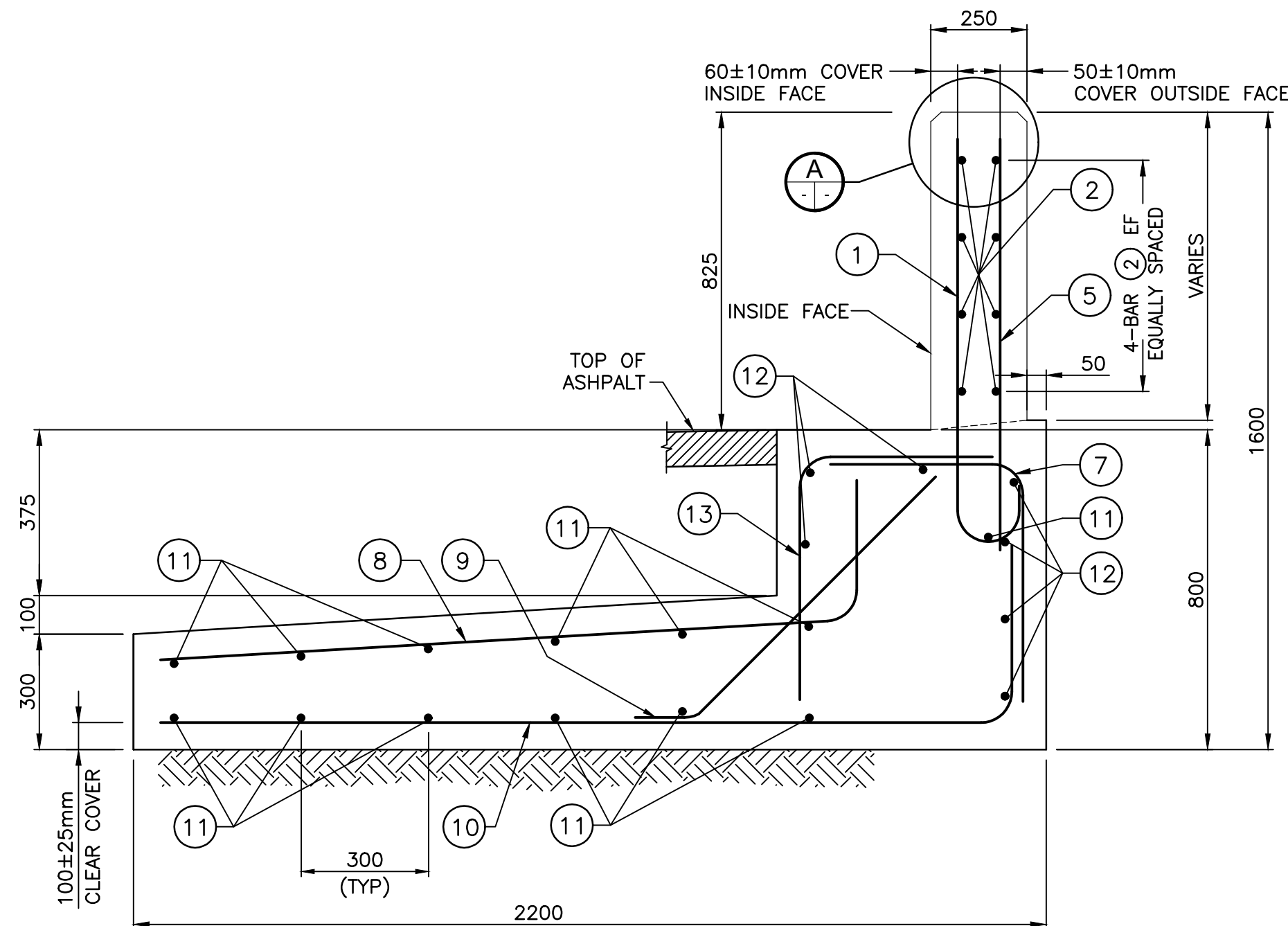
approved by
J. GOLZARI

bid
ELISABETH OHI project manager

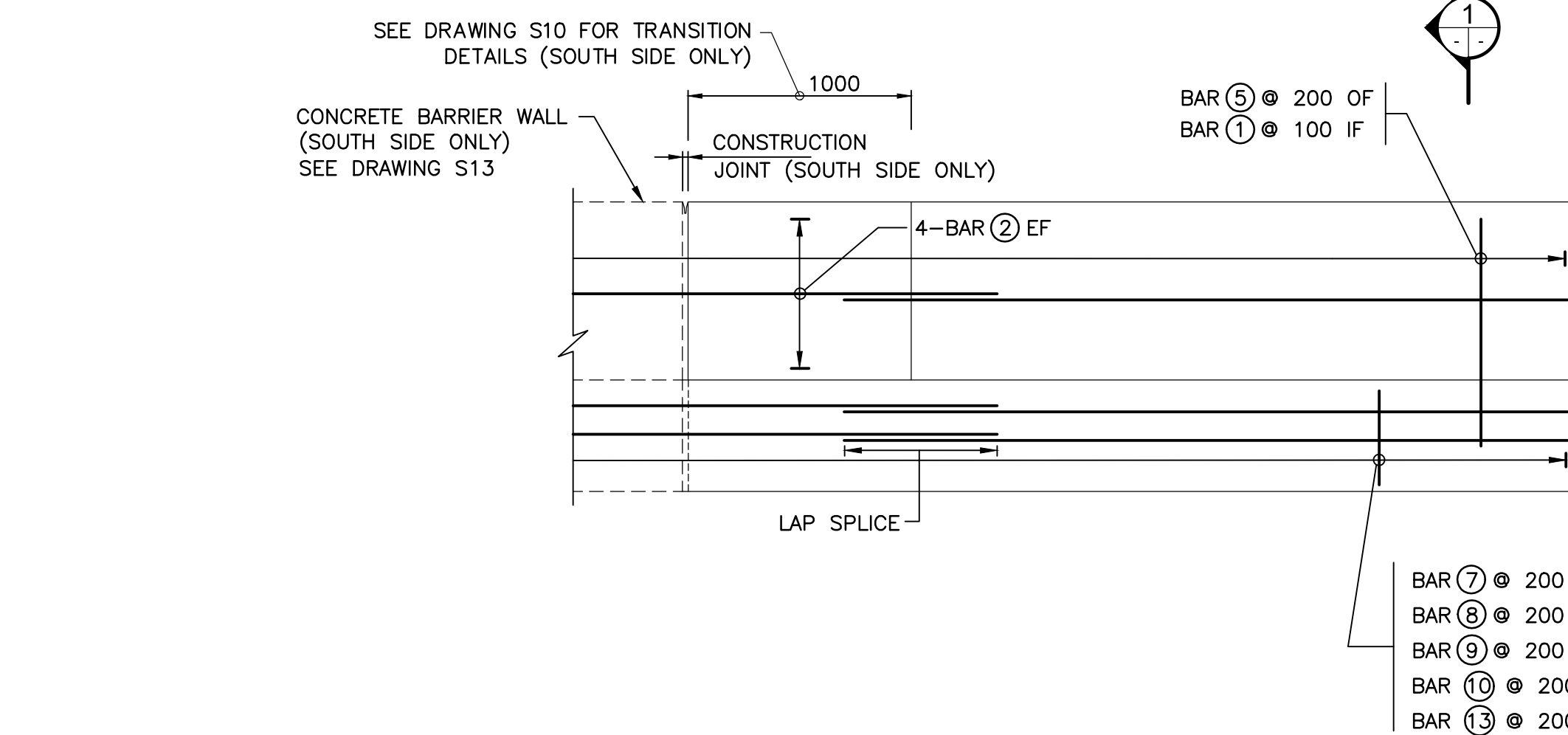
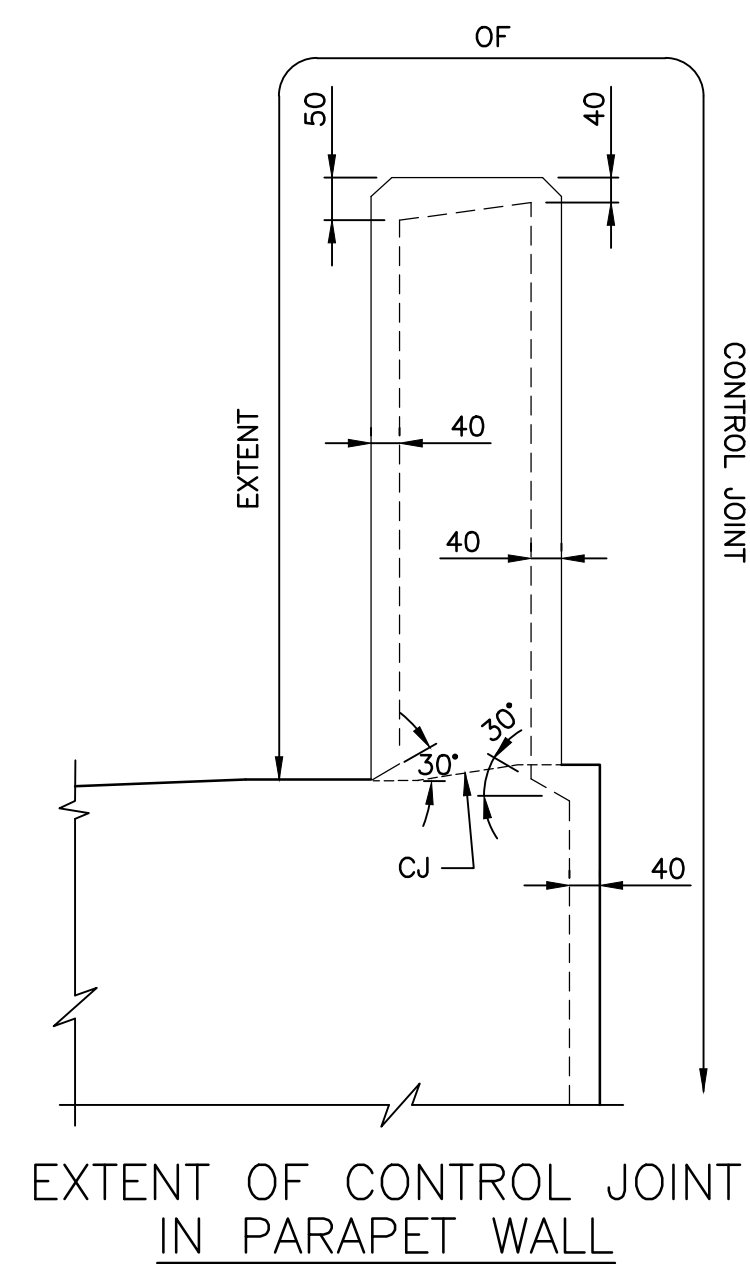
project date
2021/09/10

project no.
R.101343.040

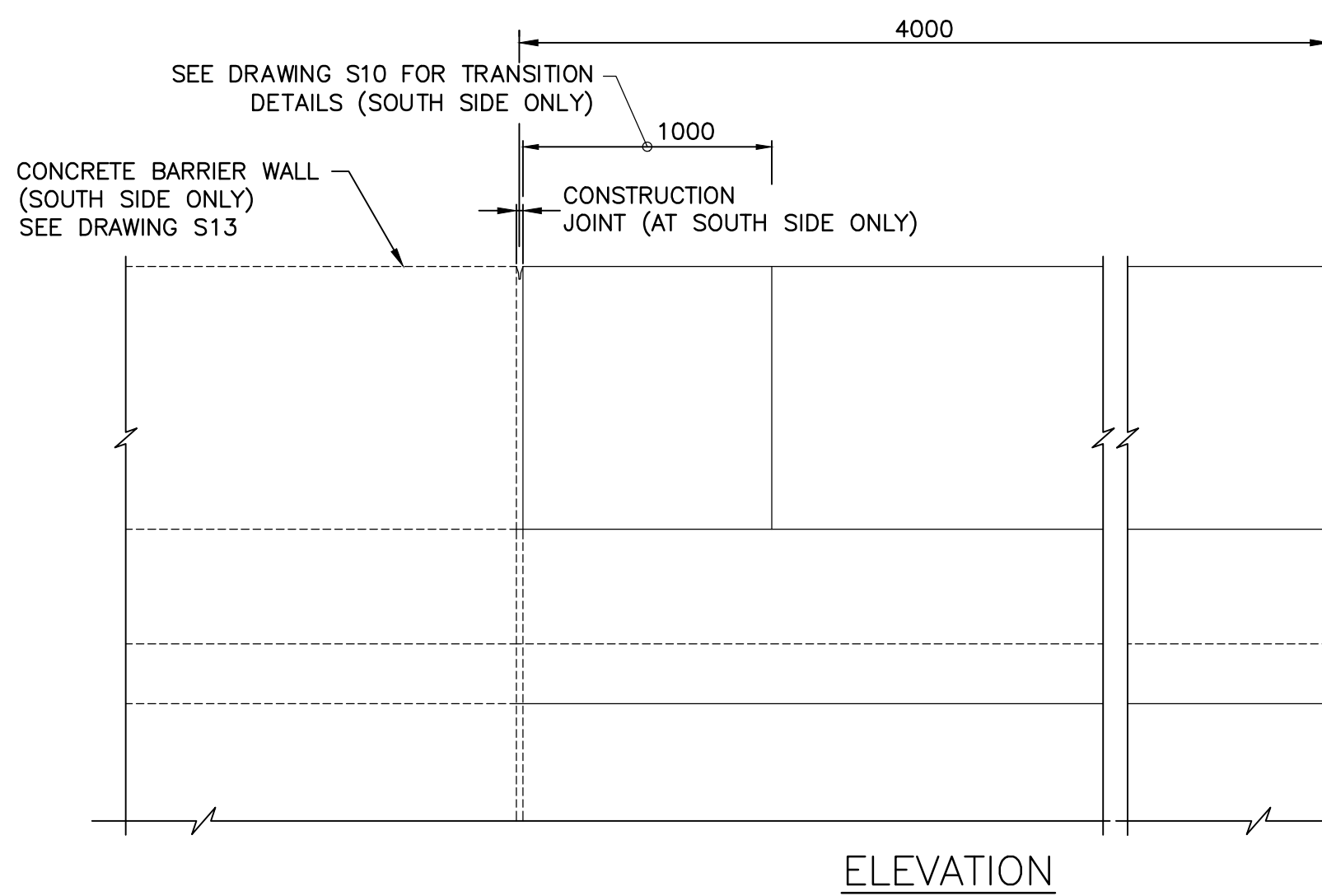
drawing no.
S11



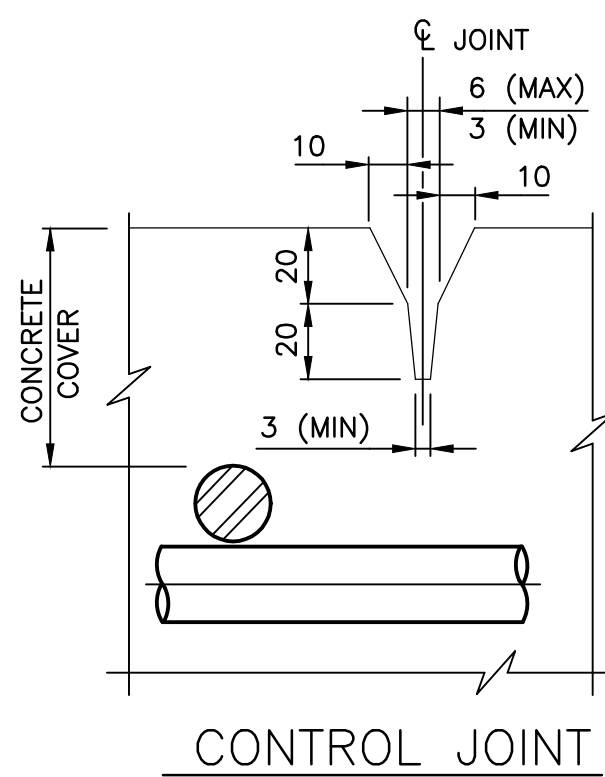
SECTION 1
SCALE N.T.S.



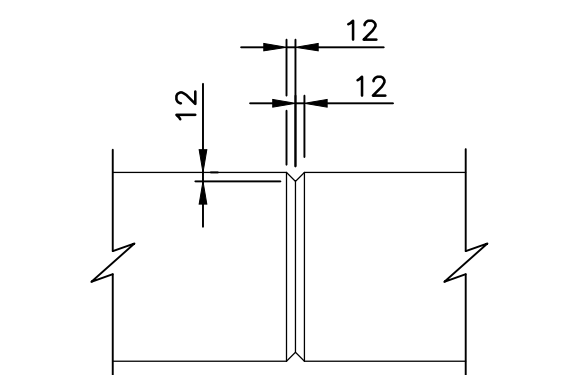
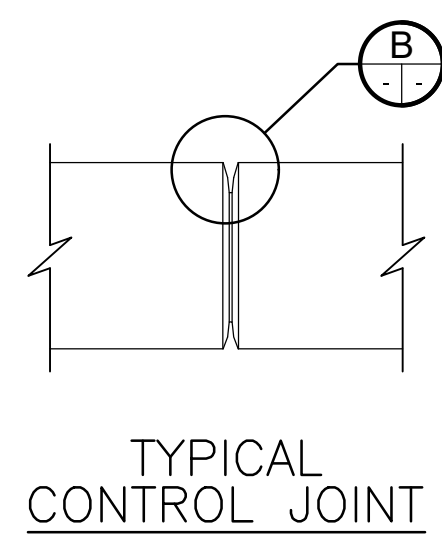
TYPICAL REINFORCING ARRANGEMENT



ELEVATION



CONTROL JOINT DETAIL
SCALE N.T.S.



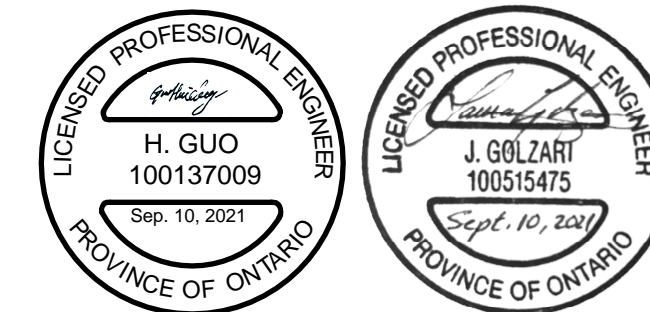
TYPICAL CONSTRUCTION JOINT

NOTES:

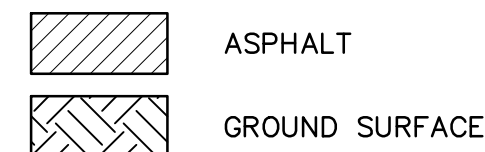
1. SYSTEM CONFIGURATION MEETS THE REQUIREMENTS OF NCHRP 350.
2. RETAINED SOIL SYSTEM WALL, PARAPET WALL AND FOOTING, SHALL BE IN ACCORDANCE WITH THE DESIGNATED SOURCES FOR MATERIALS LIST DSM 9.7.0.56.
3. CONCRETE COVER TO REINFORCING STEEL 70±20mm, EXCEPT AS NOTED.
4. CLASS OF CONCRETE FOR FOOTING 30 MPa.
5. REINFORCING STEEL SHALL BE STAINLESS TYPE 316LN OR DUPLEX 2205 WITH A MINIMUM YIELD STRENGTH OF 500MPa AND GRADE 400W REINFORCING STEEL. SEE REINFORCING TABLE BELOW.
6. BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
7. BAR LAP SPLICE FOR HORIZONTAL REINFORCEMENT MUST NOT LAP THROUGH CONTROL JOINT.
8. MINIMUM BAR LAP SPLICE TO BE 700mm, UNLESS OTHERWISE SHOWN.
9. LENGTH OF HORIZONTAL BAR TO SUIT CONTRACTOR'S OPERATIONS. BAR LENGTHS NEED NOT MATCH DISTANCE BETWEEN CONTROL JOINTS.
10. CONTROL JOINT TO BE FORMED.
11. SAWCUTS NOT PERMITTED.
12. CONTROL JOINT FORM HARDWARE NOT TO BE LEFT IN PLACE.
13. LEGEND:

EF - DENOTES EACH FACE
OF - DENOTES OUTSIDE FACE
IF - DENOTES INSIDE FACE
CJ - CONSTRUCTION JOINT

| BAR MARK | SIZE | SHAPE |
|----------|------|-------------------------|
| ① | S15M | |
| ② | S15M | STRAIGHT |
| ③ | S15M | |
| ④ | S15M | |
| ⑤ | S10M | STRAIGHT |
| ⑥ | S10M | STRAIGHT |
| ⑦ | S15M | |
| ⑧ | S15M | |
| ⑨ | S15M | |
| ⑩ | 15M | |
| ⑪ | 15M | STRAIGHT |
| ⑫ | S15M | STRAIGHT |
| ⑬ | S15M | |
| ⑭ | S15M | |
| ⑮ | S10M | STRAIGHT, LENGTH VARIES |



LEGEND



1 ISSUED FOR BID SUBMISSION 21/09/10

revision description date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately
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A Detail No.
B drawing no. - where detail required
C drawing no. - where detailed

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

**PARAPET WALL AT
BASCULE BRIDGE
WEST APPROACH**

drawn by

VINCE GUO

designed by

VINCE GUO

approved by

J. GOLZARI

bid

project manager

ELISABETH OHI

project date

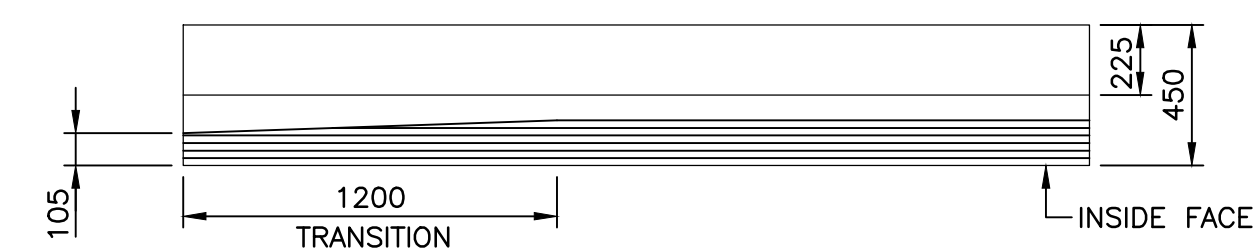
2021/09/10

project no.

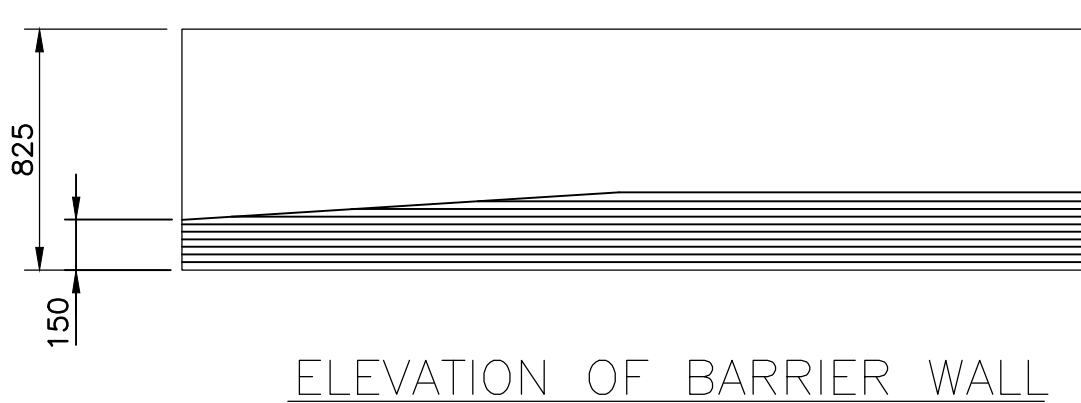
R.101343.040

drawing no.

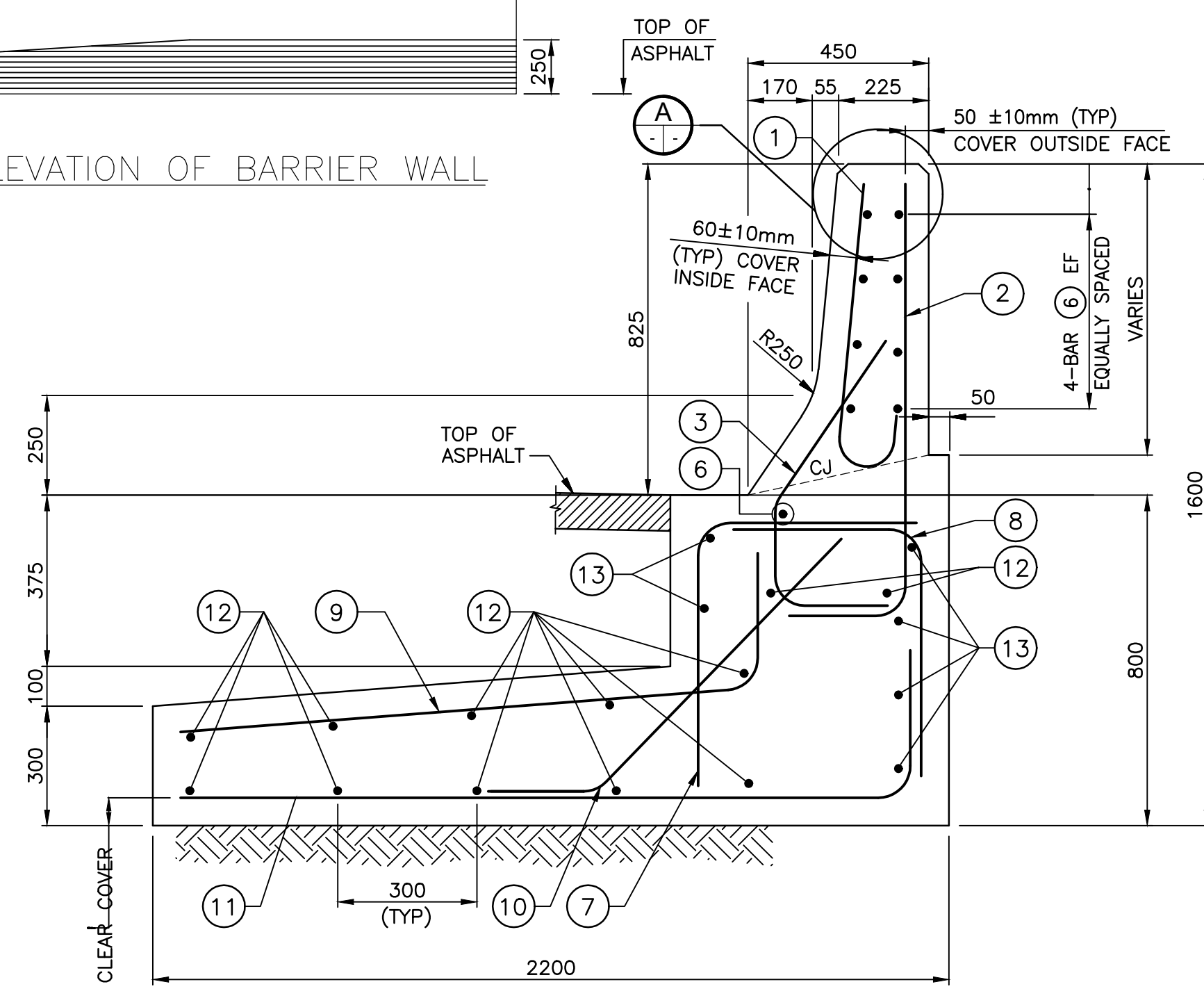
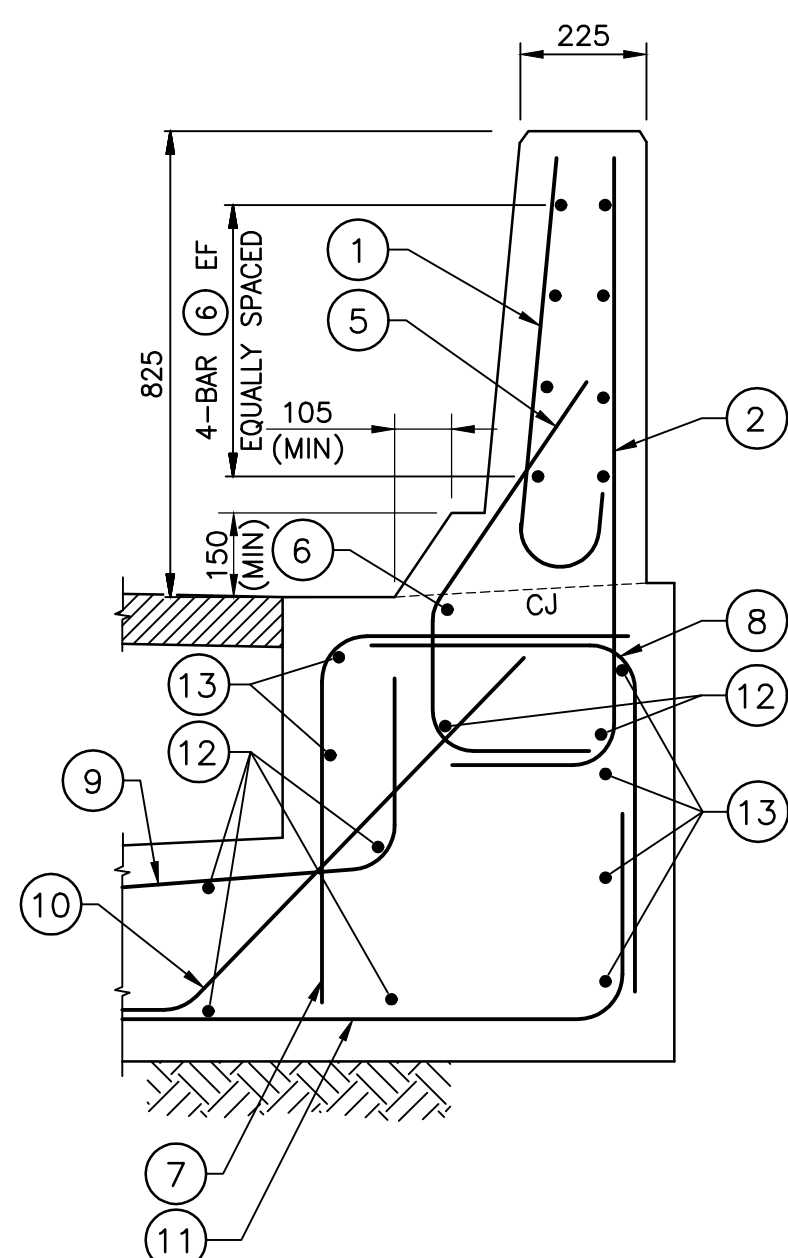
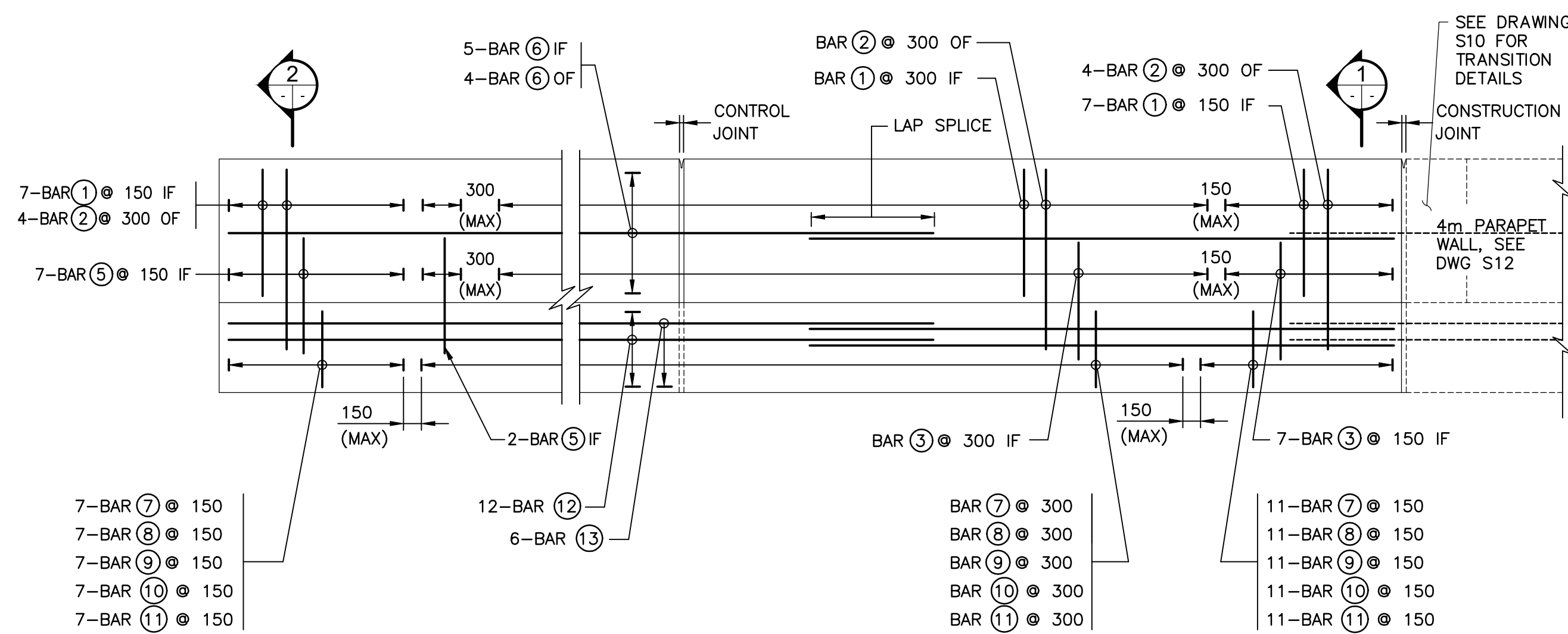
S12



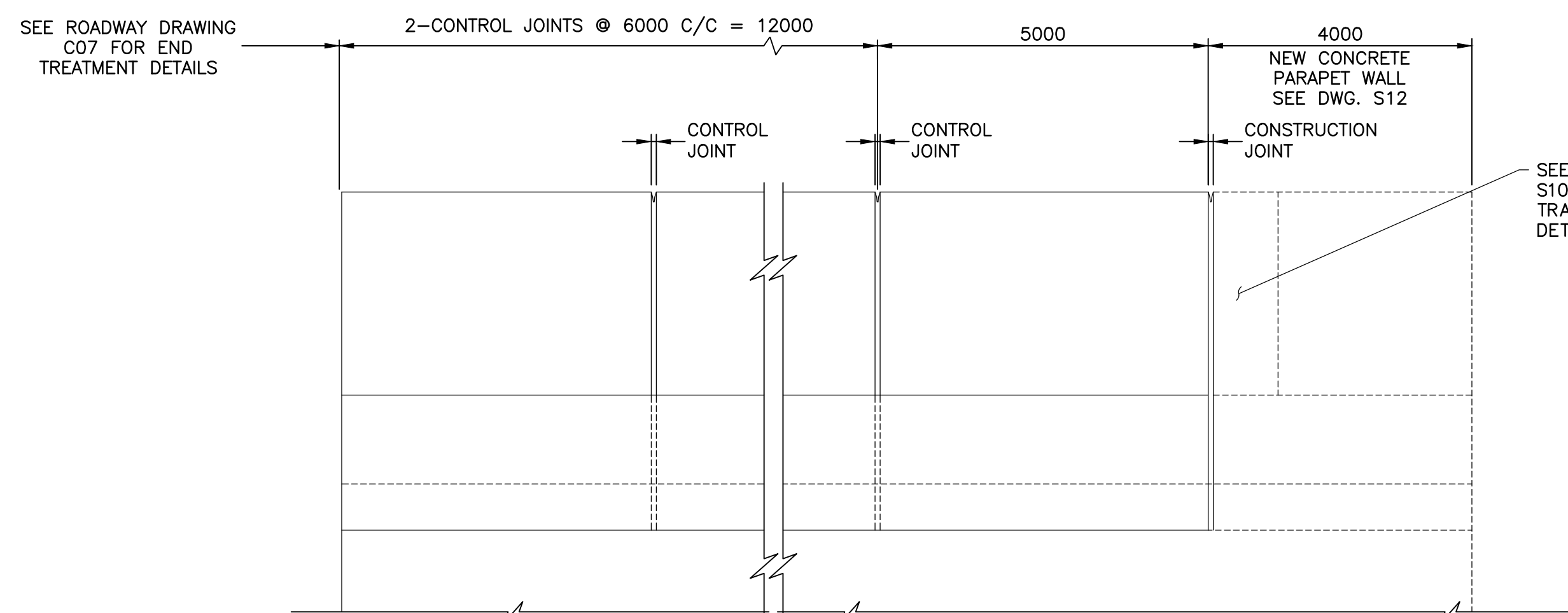
PLAN



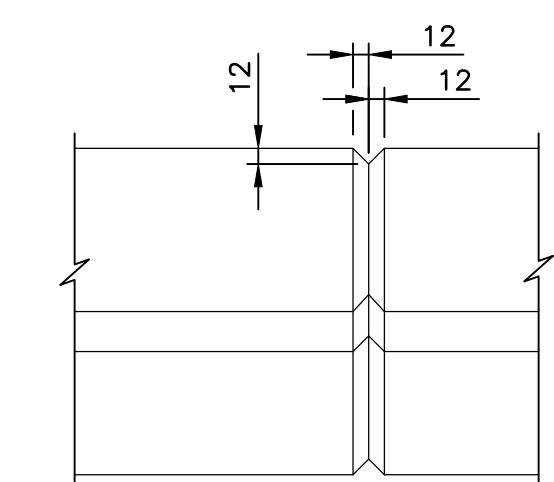
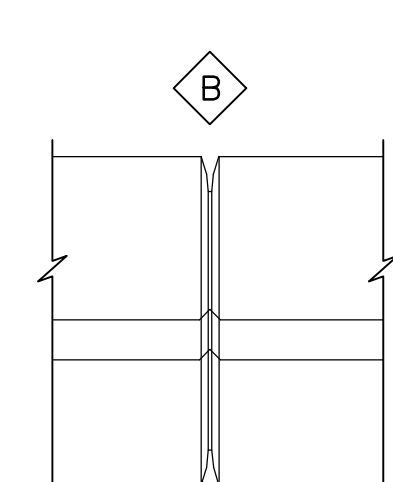
ELEVATION OF BARRIER WALL

SECTION 1
SCALE N.T.S.SECTION 2
SCALE N.T.S.BARRIER WALL
AT EXTERIOR END PANELEXTENT OF CONTROL JOINT
IN BARRIER WALL

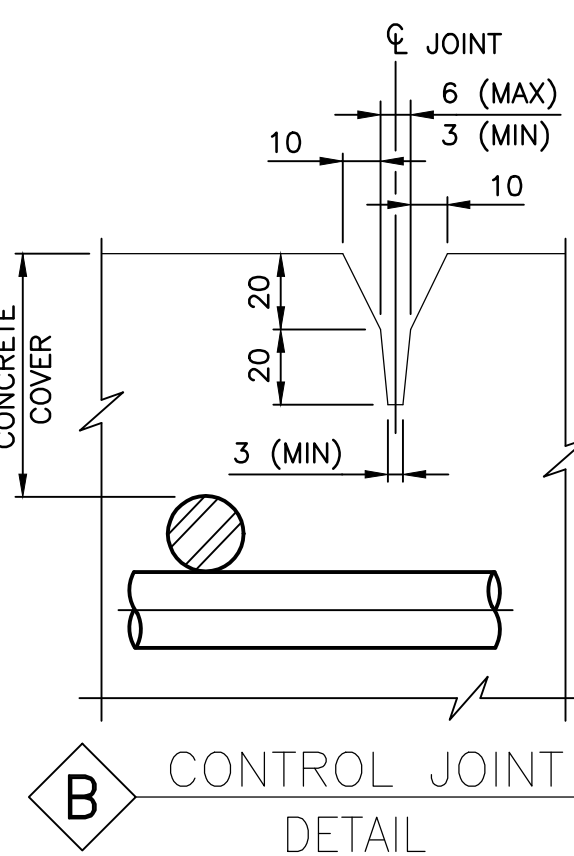
TYPICAL REINFORCING ARRANGEMENT



ELEVATION

TYPICAL
CONSTRUCTION JOINT

TYPICAL CONTROL JOINT

CONTROL JOINT
DETAIL

NOTES:

1. SYSTEM CONFIGURATION MEETS THE REQUIREMENTS OF NCHRP 350.
2. RETAINED SOIL SYSTEM WALL, BARRIER WALL AND FOOTING, SHALL BE IN ACCORDANCE WITH THE DESIGNATED SOURCES FOR MATERIALS LIST DSM 9.70.56.
3. CONCRETE COVER TO REINFORCING STEEL 70±20mm, EXCEPT AS NOTED.
4. CLASS OF CONCRETE FOR FOOTING 30MPa.
5. REINFORCING STEEL SHALL BE STAINLESS TYPE 316LN OR DUPLEX 2205 WITH A MINIMUM YIELD STRENGTH OF 500MPa AND GRADE 400W REINFORCING STEEL. SEE REINFORCING TABLE BELOW.
6. BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
7. BAR LAP SPLICE FOR HORIZONTAL REINFORCEMENT MUST NOT LAP THROUGH CONTROL JOINT.
8. MINIMUM BAR LAP SPLICE TO BE 700mm, UNLESS OTHERWISE SHOWN.
9. LENGTH OF HORIZONTAL BAR TO SUIT CONTRACTOR'S OPERATIONS. BAR LENGTHS NEED NOT MATCH DISTANCE BETWEEN CONTROL JOINTS.
10. CONTROL JOINT TO BE FORMED.
11. SAWCUTS NOT PERMITTED.
12. CONTROL JOINT FORM HARDWARE NOT TO BE LEFT IN PLACE.
13. FOOTINGS SHALL HAVE CONSTRUCTION JOINTS AT MAX SPACING OF 12.0M.
14. LEGEND:

CJ - CONSTRUCTION JOINT
EF - DENOTES EACH FACE
LS - LAP SPLICE
IF - DENOTES INSIDE FACE
OF - DENOTES OUTSIDE FACE

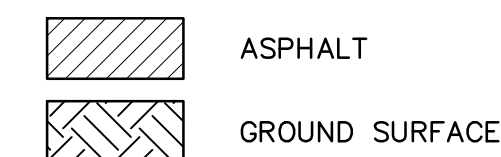
| BAR MARK | SIZE | SHAPE |
|----------|------|----------|
| ① | S15M | |
| ② | S10M | |
| ③ | S15M | |
| ④ | S15M | |
| ⑤ | S15M | |
| ⑥ | S15M | STRAIGHT |
| ⑦ | S15M | |
| ⑧ | S15M | |
| ⑨ | S15M | |
| ⑩ | S15M | |
| ⑪ | 15M | |
| ⑫ | 15M | STRAIGHT |
| ⑬ | S15M | STRAIGHT |
| ⑭ | S10M | |
| ⑮ | S15M | |
| ⑯ | S10M | |
| ⑰ | S15M | |



Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region



LEGEND



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revision description date

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A Detail No.
B drawing no. - where detail required
C drawing no. - where detailed

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

**BARRIER WALL AT
BASCULE BRIDGE
WEST APPROACH**

drawn by

VINCE GUO

designed by

VINCE GUO

approved by

J. GOLZARI

bid

project manager

ELISABETH OHI

project date

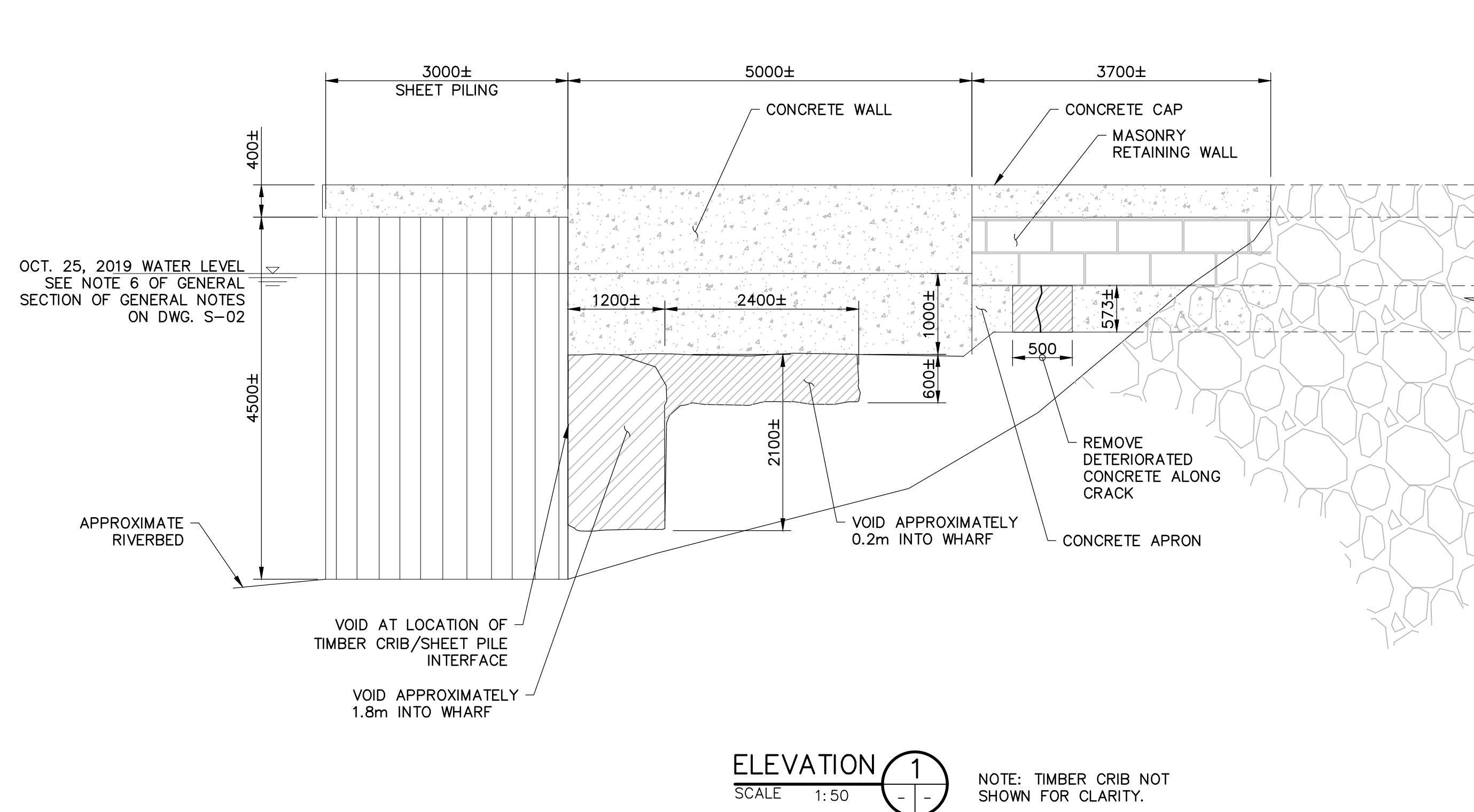
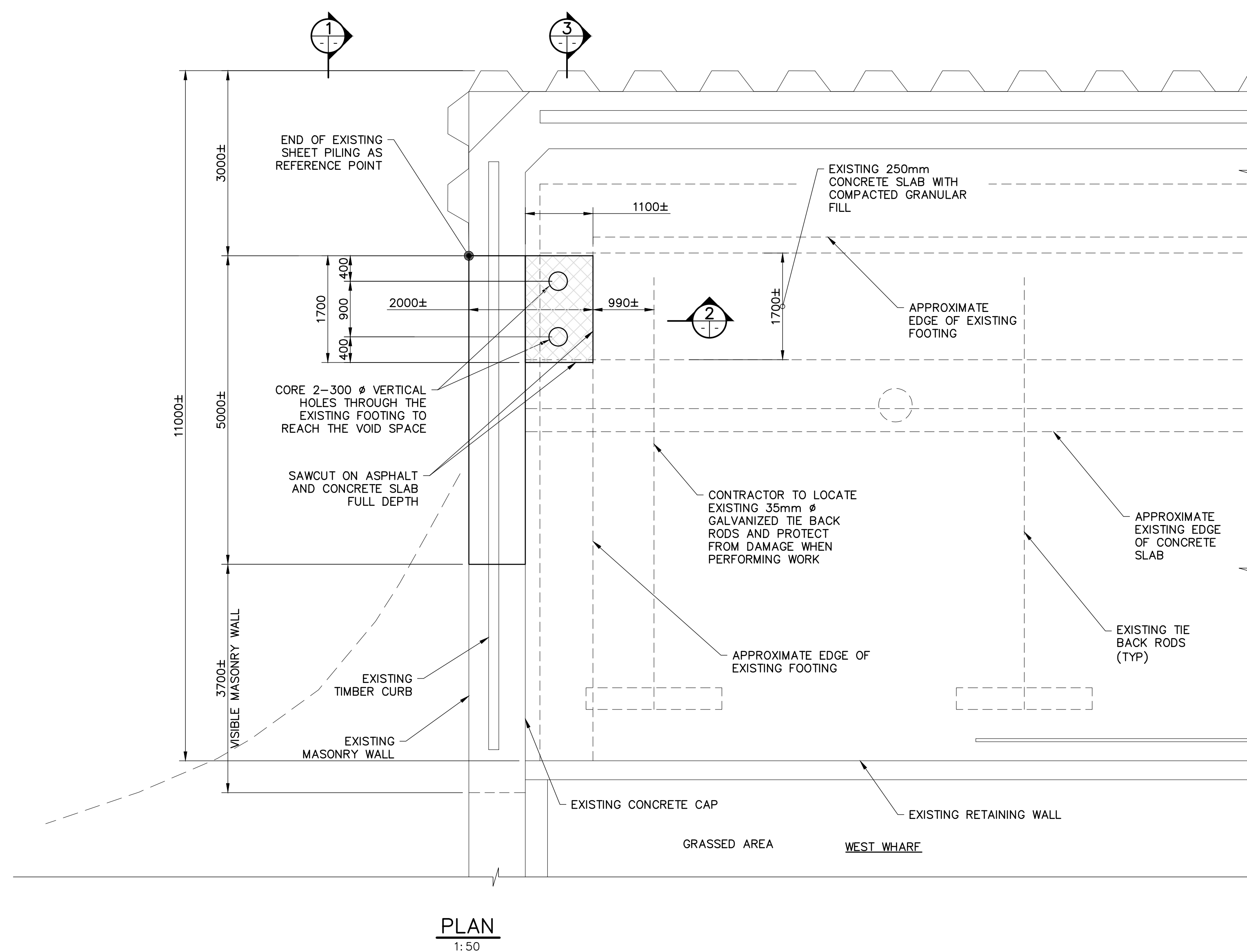
2021/09/10

project no.

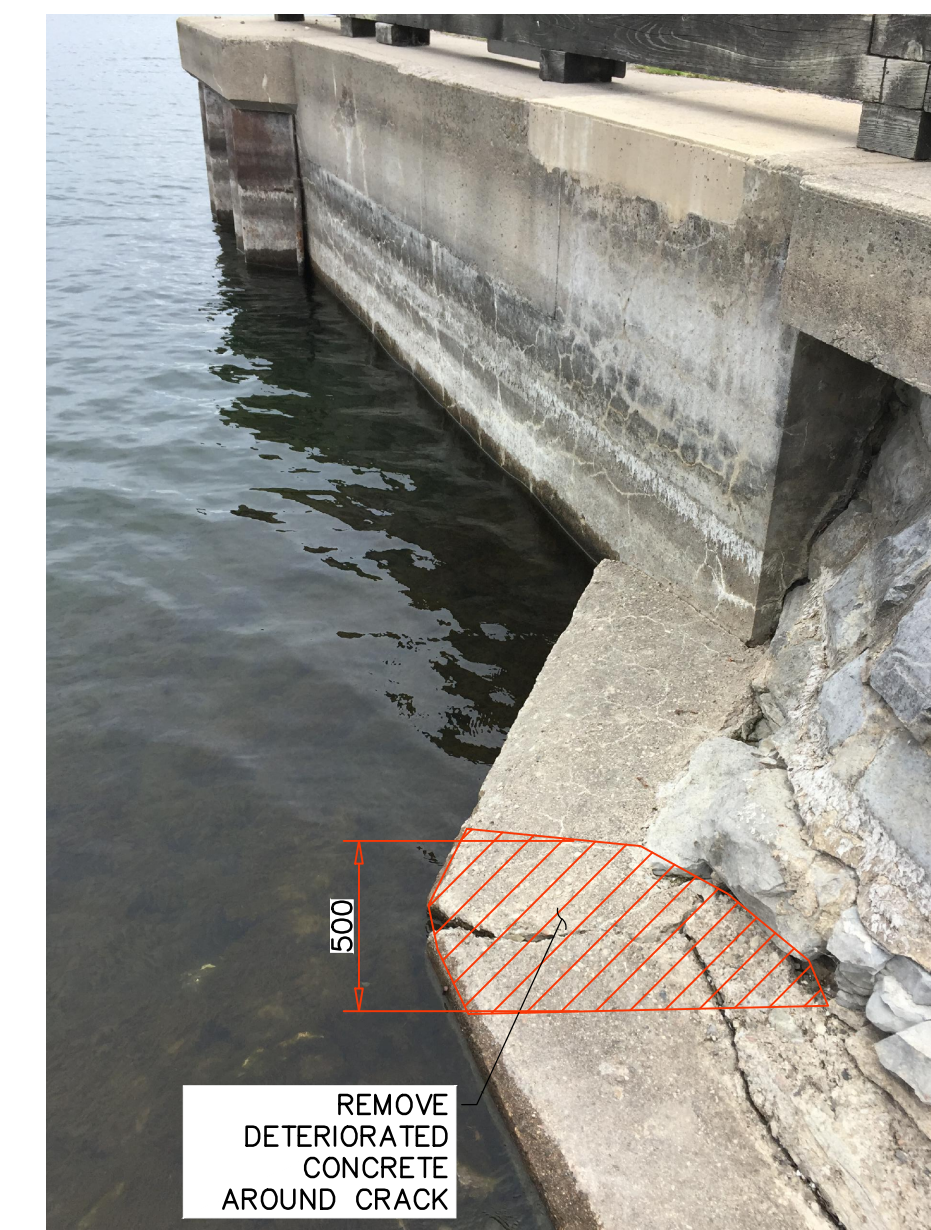
R.101343.040

drawing no.

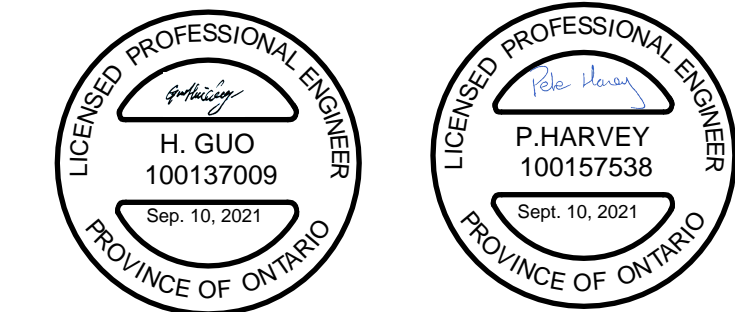
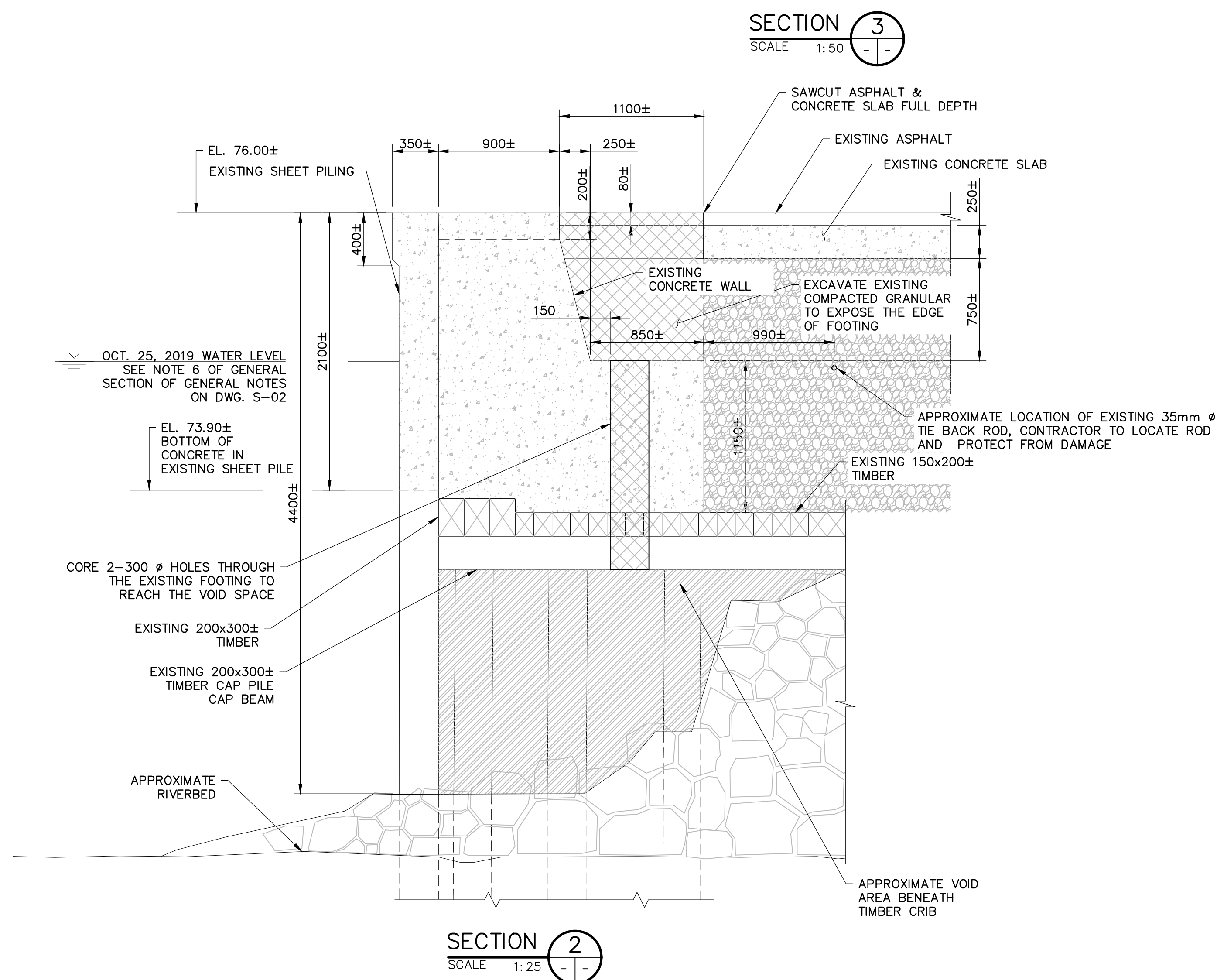
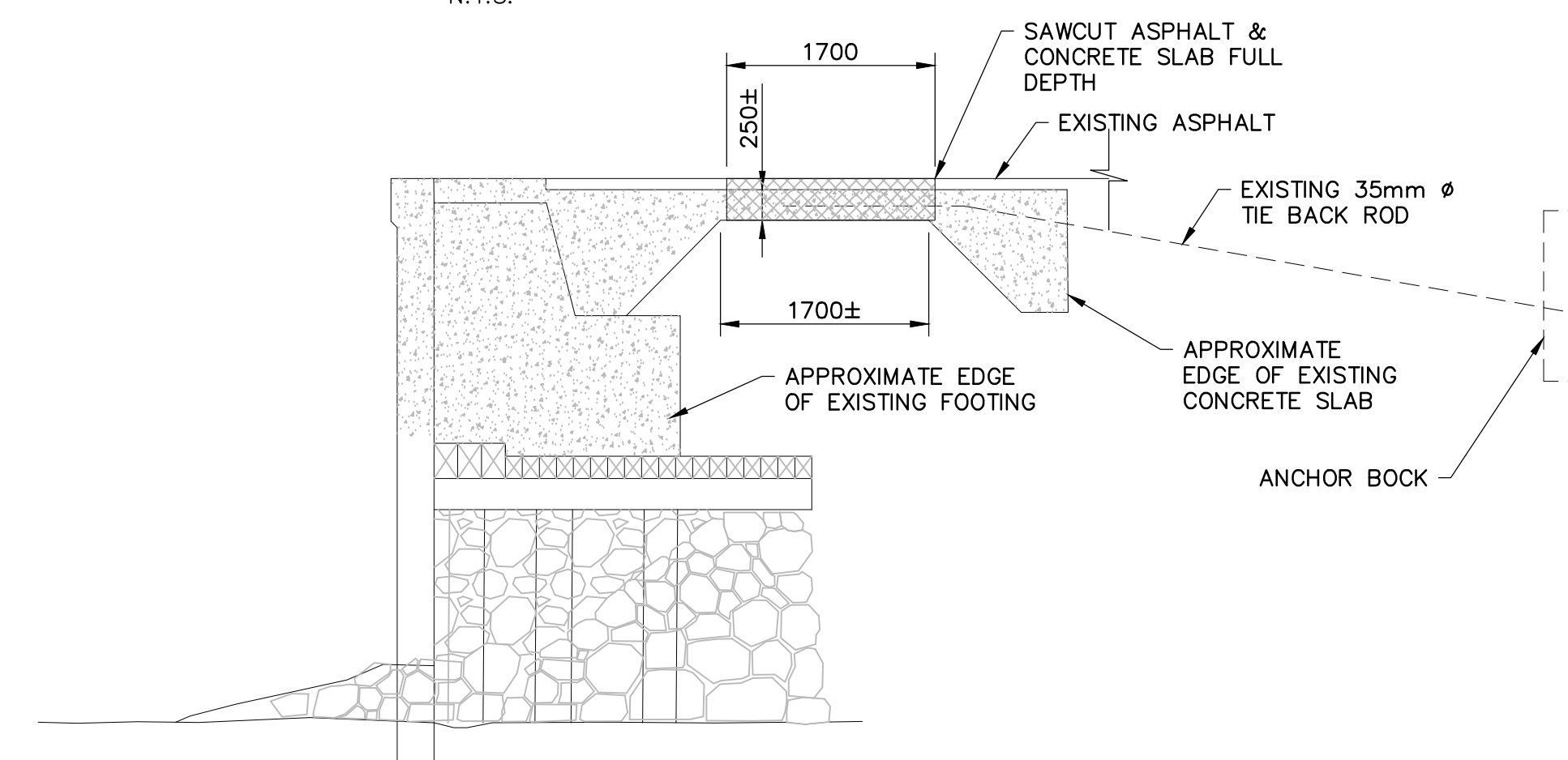
S13

**NOTES:**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG S01 AND S02.
- AREA OF CONCRETE REMOVAL SHOWN ON THE CONCRETE APRON IS APPROXIMATE ONLY. LOCATION AND EXTENT OF CONCRETE REQUIRING REMOVAL SHALL BE DETERMINED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THIS OPERATION IN HIS WORK SCHEDULE AND SHALL PROVIDE ALL NECESSARY SAFE ACCESS MEASURES IN A TIMELY MANNER TO ALLOW FOR INSPECTION.



CONCRETE APRON REMOVALS
N.T.S.

**LEGEND**

| | |
|--|------------------------|
| | PARTIAL DEPTH REMOVALS |
| | EXISTING CONCRETE |
| | FULL DEPTH REMOVALS |
| | GRANULAR FILL |

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| B | drawing no. - where detail required |
| C | drawing no. - where detailed |

project title
KINGSTON
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

WEST WHARF RETAINING WALL REMOVALS

drawn by
VINCE GUO

designed by
VINCE GUO

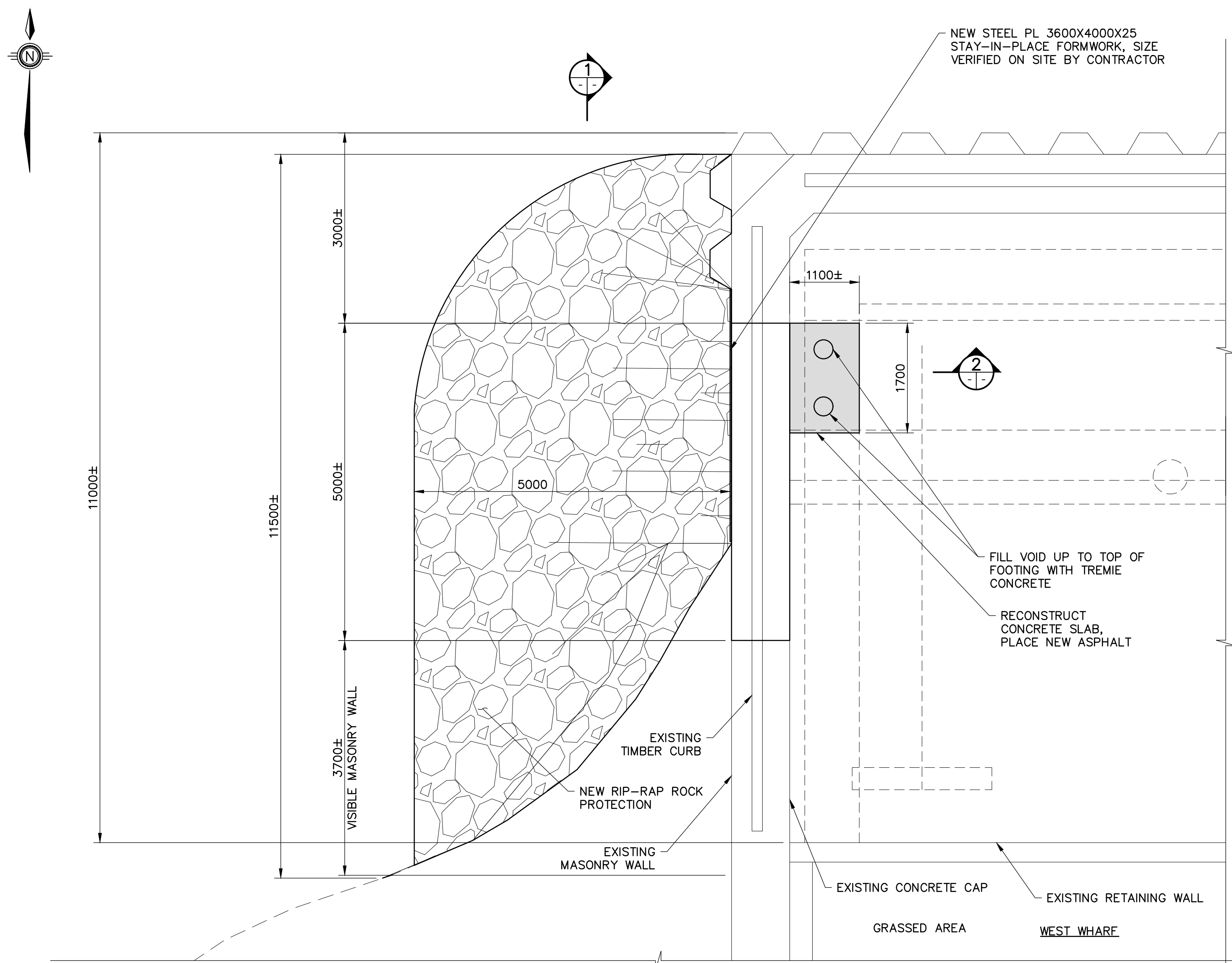
approved by
P. HARVEY

bid
ELISABETH OHI project manager

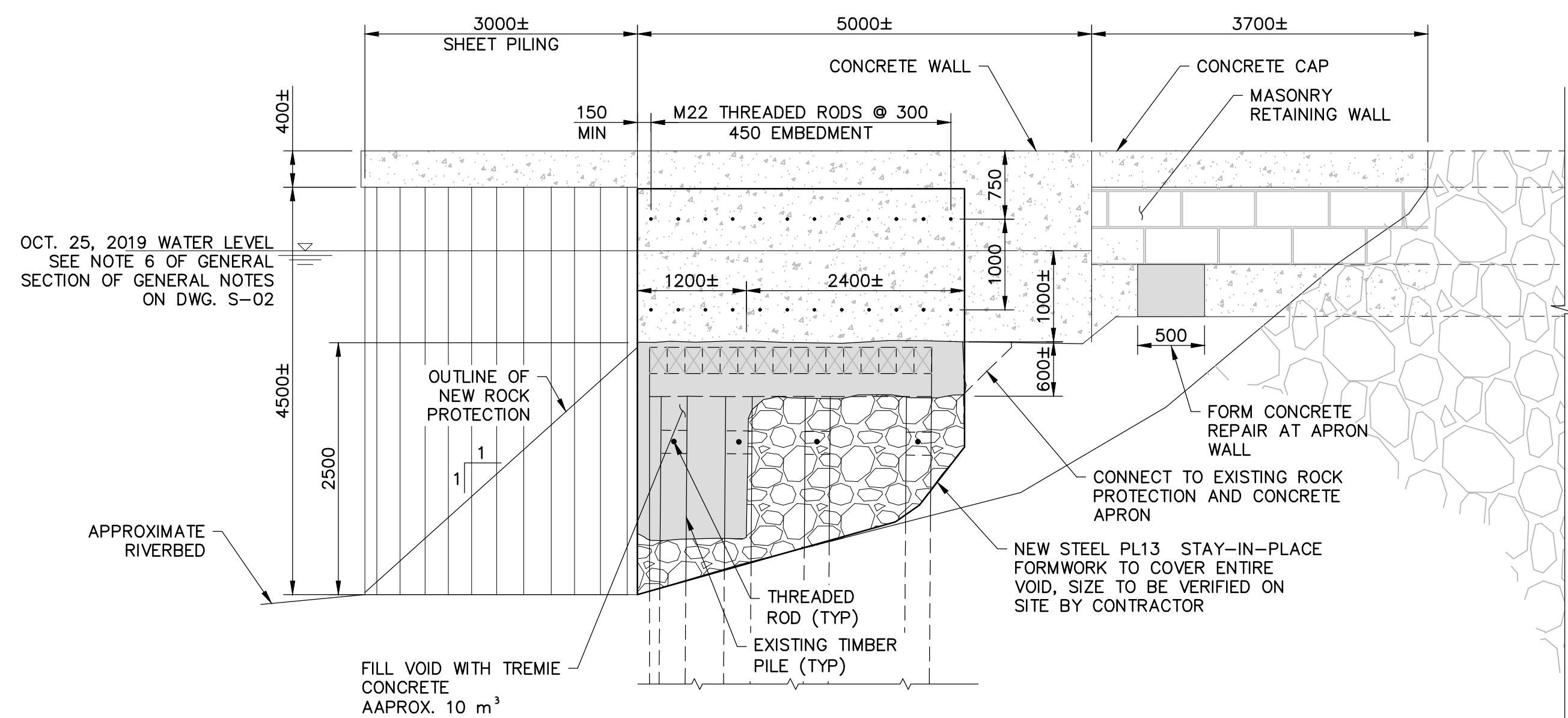
project date
2021/09/10

project no.
R.101343.040

drawing no.
S14



PLAN
1:50

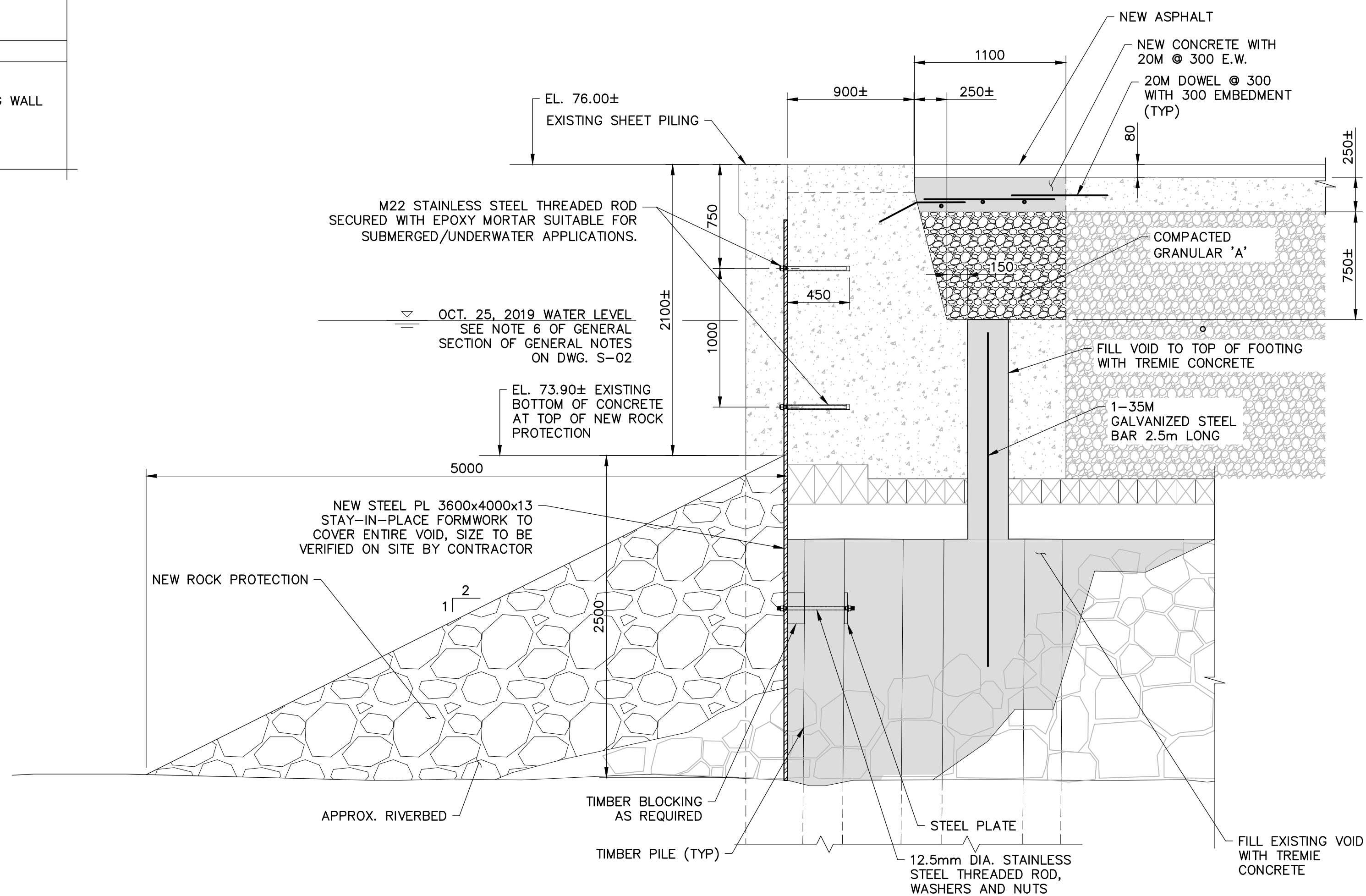


SECTION 1
SCALE 1:50

NOTE: TIMBER CRIB NOT SHOWN FOR CLARITY.

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG S01, S02 AND S14.
- THE EXTENTS OF PLACEMENT OF ROCK PROTECTION AND FINAL GRADING ON EMBANKMENTS SHALL BE DETERMINED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
- ROCK PROTECTION SHALL BE IN ACCORDANCE WITH OPSS S11. PLACE ROCK PROTECTION PRIOR TO TREMIE CONCRETE PLACEMENT.
- STRUCTURAL STEEL PLATE SHALL CONFORM TO CSA G40.20/G40.21 GRADE 300W.
- SHOP DRAWINGS SHALL BE SUBMITTED TO DEPARTMENTAL REPRESENTATIVE FOR APPROVAL FOR ALL ITEMS.
- NEW HOLES IN EXISTING MATERIAL SHALL BE DRILLED TO A TEMPLATE OR MATCH DRILLED ON SITE.
- ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS FOLLOWING WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- SEAL STEEL PLATE AGAINST CONCRETE, TIMBER AND RIVER BED PRIOR TO TREMIE PLACEMENT.
- PLACE TREMIE CONCRETE IN ACCORDANCE WITH OPSS 904.
- TREMIE CONCRETE: CLASS C-3, 30MPA.
- THREADED RODS: 304 STAINLESS STEEL.



SECTION 2
SCALE 1:25



LEGEND

| | |
|--|---------------------|
| | EXISTING CONCRETE |
| | NEW CONCRETE |
| | NEW ROCK PROTECTION |

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| B | drawing no. - where detail required |
| C | drawing no. - where detailed |

project title
KINGSTON
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

WEST WHARF RETAINING WALL REPAIRS

drawn by
VINCE GUO

designed by
VINCE GUO

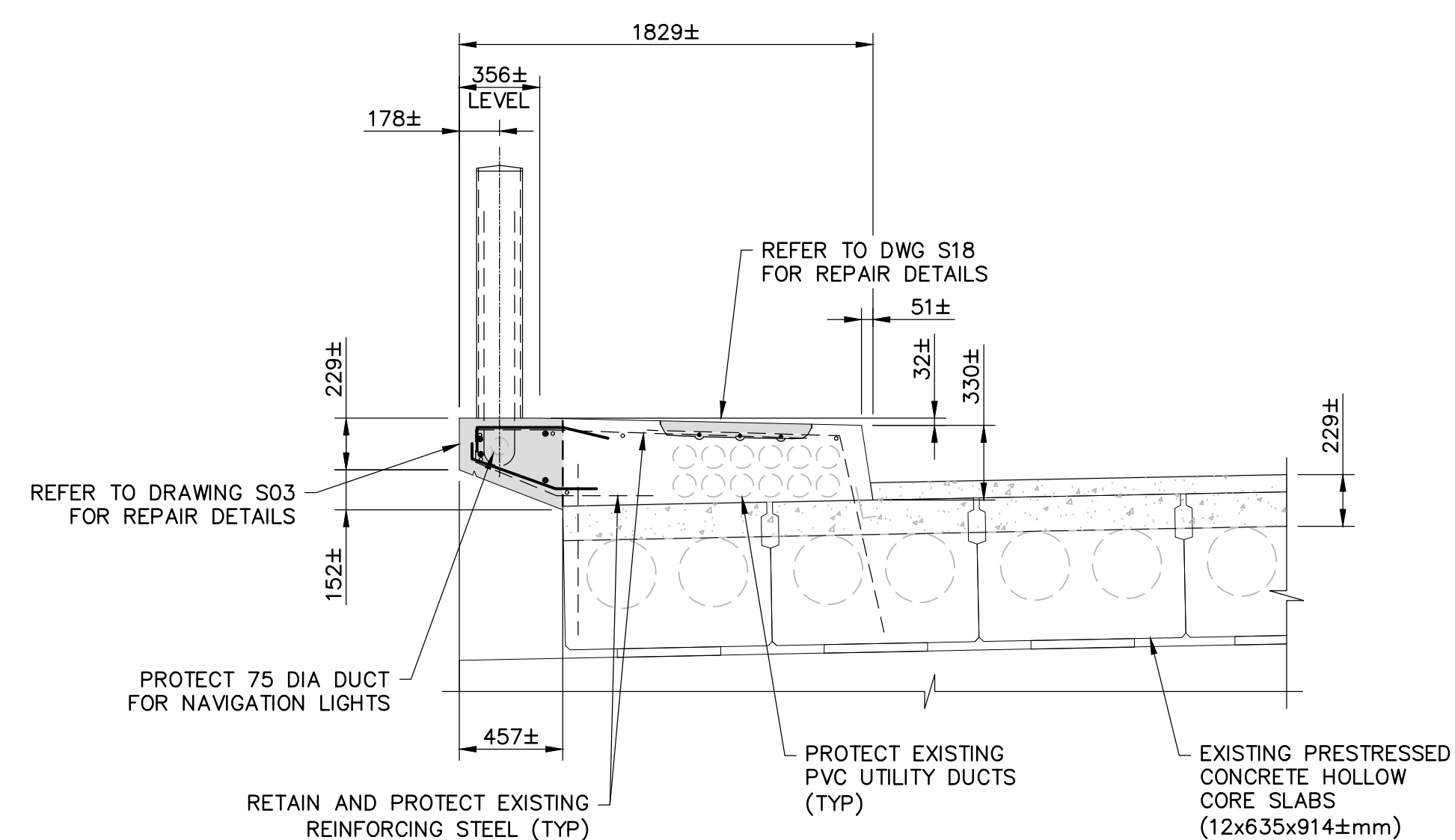
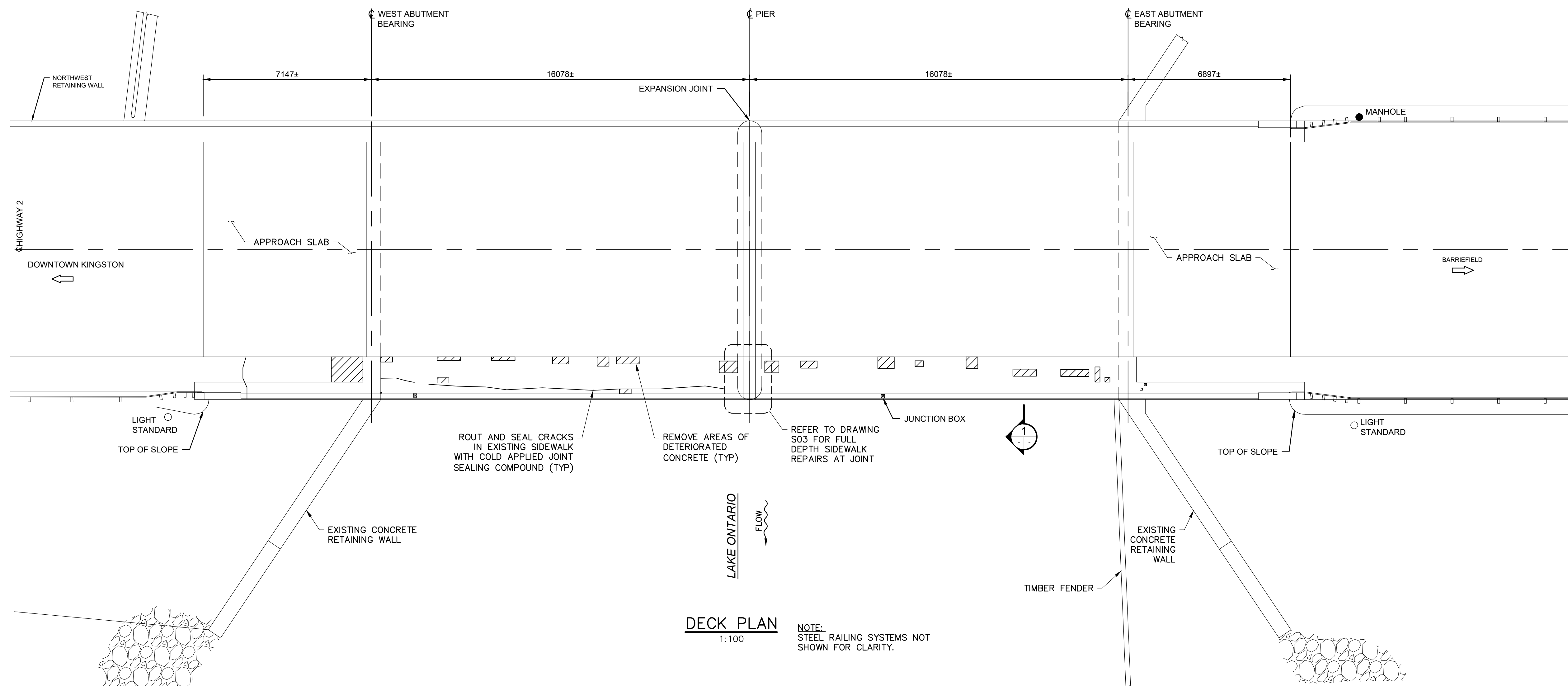
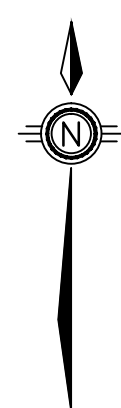
approved by
P. HARVEY

bid project manager
ELISABETH OHI

project date
2021/09/10

project no.
R.101343.040

drawing no.
S15

**NOTES:**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. S01, S02 AND S18.
- EXISTING STRUCTURE DETAILS, ELEVATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE REFERENCE DRAWINGS AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONCRETE REMOVAL.
- EXISTING EMBEDDED UTILITY DUCTS IN SIDEWALK MAY CONTAIN ASBESTOS. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS DURING CONCRETE REMOVALS. SIGNIFICANT CARE SHALL BE TAKEN BY THE CONTRACTOR DURING REMOVAL OF CONCRETE ABOVE UTILITY DUCTS. CONCRETE REMOVAL EQUIPMENT SHALL LIMITED TO CHIPPING HAMMERS (i.e. NO JACK HAMMERS) AND HAND TOOLS.
- AREAS OF PARTIAL DEPTH CONCRETE REMOVAL IN THE SIDEWALK WILL BE DETERMINED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
- LIMITS OF ALL REMOVALS SHALL BE SAWCUT.
- EXISTING STRUCTURE AND REINFORCING STEEL DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE.
- REMOVAL DEPTHS SHALL BE AS DIRECTED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE.
- FOR DETAILS OF CONCRETE PATCH REPAIRS, SEE TYPICAL DETAILS ELSEWHERE ON THE CONTRACT DRAWINGS.



Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region

**LEGEND**

- PARTIAL DEPTH REMOVALS
- NEW CONCRETE

1 ISSUED FOR BID SUBMISSION 21/09/10

| revision | description | date |
|--|-------------|------|
| Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the departmental representative of all discrepancies. | | |

- A Detail No.
- B drawing no. - where detail required
- C drawing no. - where detailed

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title

**EAST BRIDGE
SOUTH SIDEWALK REPAIRS**

drawn by
RICHARD DYNKA

designed by
J. GOLZARI

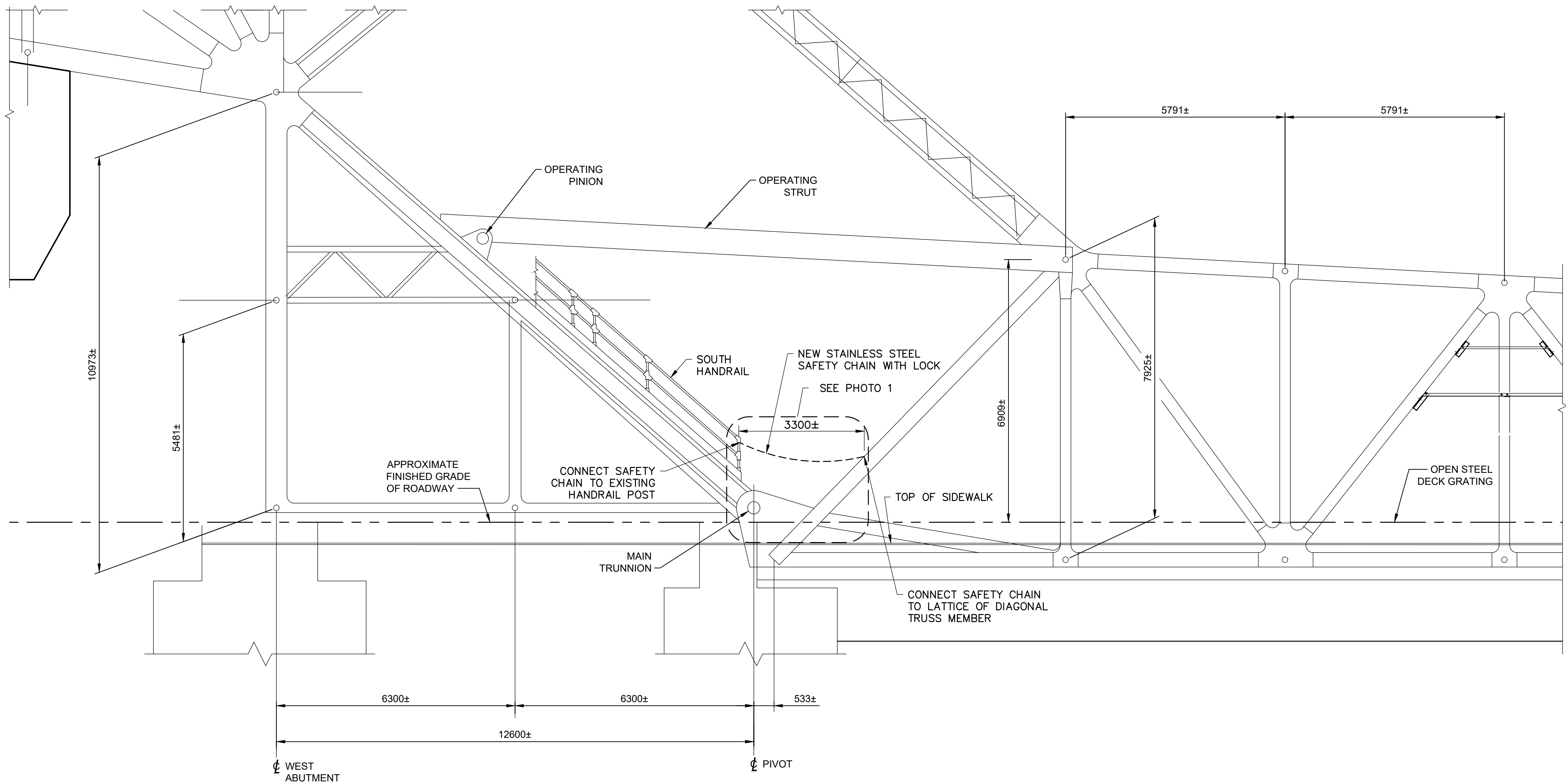
approved by
VINCE GUO

bid project manager
ELISABETH OHI

project date
2021/09/10

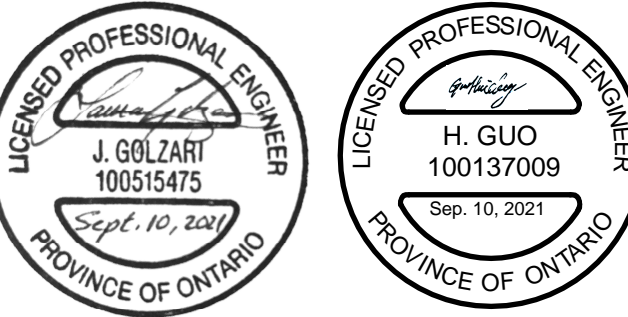
project no.
R.101343.040

drawing no.
S16

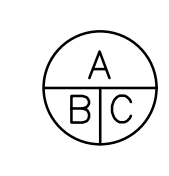


SOUTH ELEVATION
1:150

- NOTES:**
1. SAFETY CHAIN SHALL BE REMOVABLE TO ALLOW PASSAGE TO STAIRWAY.
 2. SAFETY CHAIN AND HARDWARE SHALL BE GRADE 316 SS.



| | | |
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| 1 | ISSUED FOR BID SUBMISSION | 21/09/10 |
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| Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the departmental representative of all discrepancies. | | |

| | |
|---|---------------------------------------|
|  | A Detail No. |
| | B drawing no. - where detail required |
| | C drawing no. - where detailed |

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title
MISCELLANEOUS DETAILS

drawn by
RICHARD DYNKA

designed by
J. GOLZARI

approved by
VINCE GUO

bid project manager
ELISABETH OHI

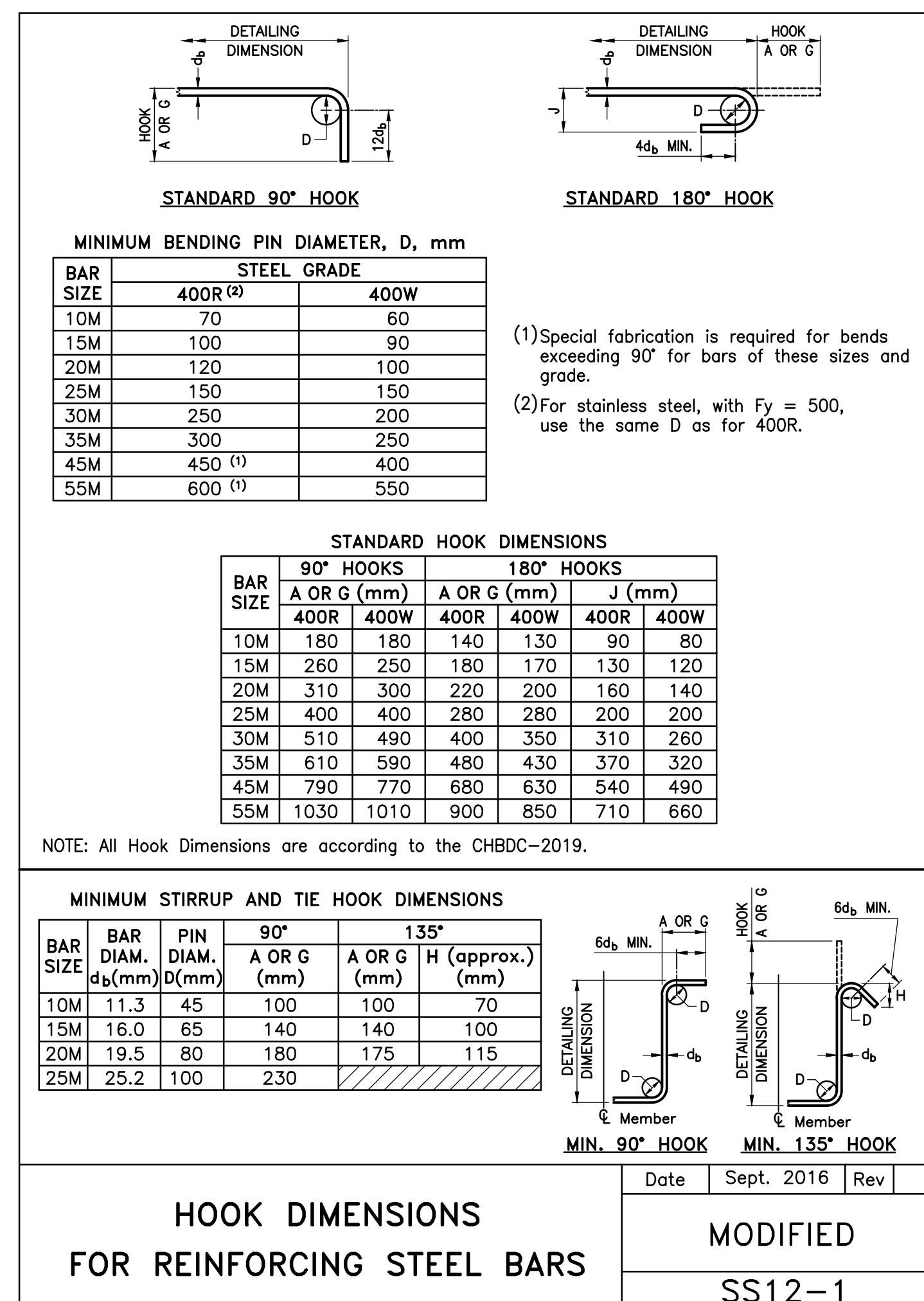
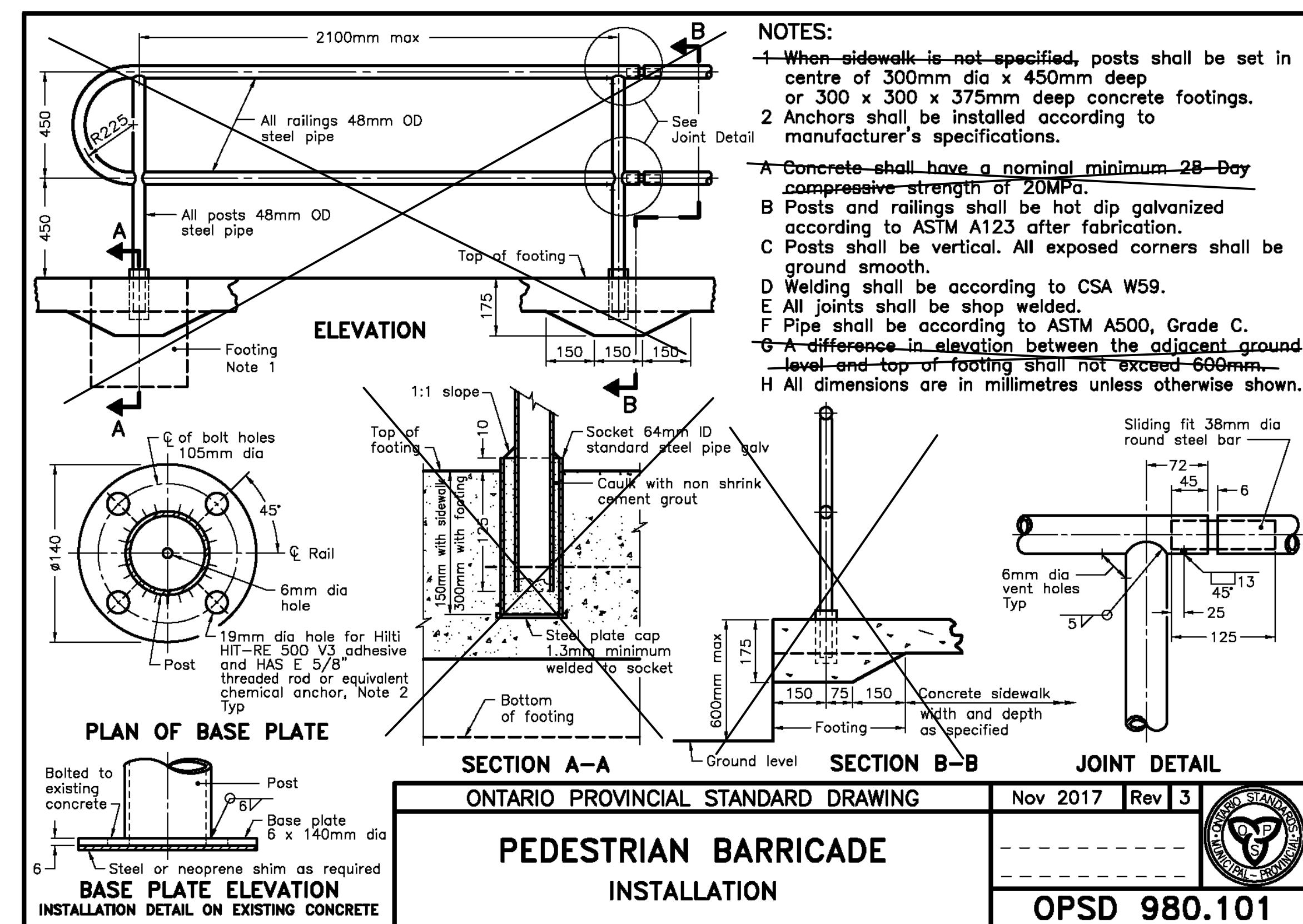
project date
2021/09/10

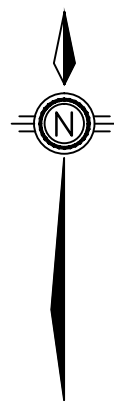
project no.
R.101343.040

drawing no.
S17

TYPICAL LOCAL CONCRETE REMOVAL AND REPAIR DETAIL
(FOR HORIZONTAL SURFACES)
SCALE / ECHELLE: 1:10

WITH CONCRETE COVER < 50 mm





REFER TO DWG S14 AND S15 FOR DETAILS OF ASPHALT REMOVALS AND REINSTATEMENT AT THIS LOCATION

CONTRACTOR TO LOCATE EXISTING 35mm Ø GALVANIZED TIE BACK RODS, PROTECT FROM DAMAGE WHEN PERFORMING WORK (TYP)

APPROXIMATE EXISTING EDGE OF CONCRETE SLAB

EXISTING TIMBER CURB
EXISTING MASONRY WALL

APPROXIMATE EDGE OF EXISTING FOOTING
EXISTING CONCRETE CAP

EXISTING ANCHOR BLOCK, PROTECT FROM DAMAGE WHEN PERFORMING WORK (TYP)

EXISTING RETAINING WALL

GRASSED AREA

WEST WHARF

1300±

3200±

1600±

5250±

5300±

REMOVE EXISTING ASPHALT FULL DEPTH AND 150mm OF GRANULAR BASE, REPLACE WITH 150mm COMPACTED GRANULAR 'A' BASE AND 140mm ASPHALT (TYP)

SAWCUT ASPHALT ALL AROUND (TYP)

EXISTING 35mm Ø GALVANIZED TIE BACK RODS, PROTECT FROM DAMAGE WHEN PERFORMING WORK (TYP)

PLAN
1:50

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG S01, S02, S14 AND S15.
2. AREAS OF ASPHALT REMOVAL AND REINSTATEMENT SHOWN ARE APPROXIMATE ONLY. LOCATIONS AND EXTENTS TO BE DETERMINED IN FIELD BY DEPARTMENTAL REPRESENTATIVE.
3. ASPHALT PAVEMENT REINSTATEMENT:
150mm GRANULAR 'A' BASE
50mm SUPERPAVE 12.5mm FC1 LEVEL D (PG 64-34)
45mm SUPERPAVE 19.0mm LEVEL D (PG 64-34)
45mm SUPERPAVE 19.0mm LEVEL D (PG 64-34)
4. REFER TO DETAIL D-1 ON DWG C09 FOR DETAILS OF NEW TO EXISTING PAVEMENT TRANSITION.



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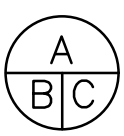


LEGEND

 PARTIAL DEPTH REMOVALS AND REINSTATEMENT

| revision | description | date |
|----------|---------------------------|----------|
| 1 | ISSUED FOR BID SUBMISSION | 21/09/10 |

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



- A Detail No.
B drawing no. - where detail required
C drawing no. - where detailed

project title
KINGSTON Ontario
PWGSC
LaSalle Causeway

LSC CONCRETE REPAIRS

drawing title
**WEST WHARF ASPHALT
PATCH REPAIRS**

drawn by
R. DYNKA

designed by
J. GOLZARI

approved by
P. HARVEY

bid project manager
ELISABETH OHI

project date
2021/09/10

project no.
R.101343.040

drawing no.
S19