

Parks
Canada

Parcs
Canada



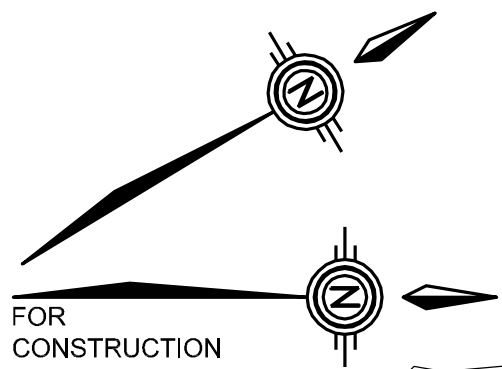
LOWER NICHOLSONS LOCK STATION
REPLACEMENT OF WHARF
PARKS CANADA AGENCY
45 NICHOLSONS LANE
MERRICKVILLE, ONTARIO

WSP PROJECT No. 161-08318-00

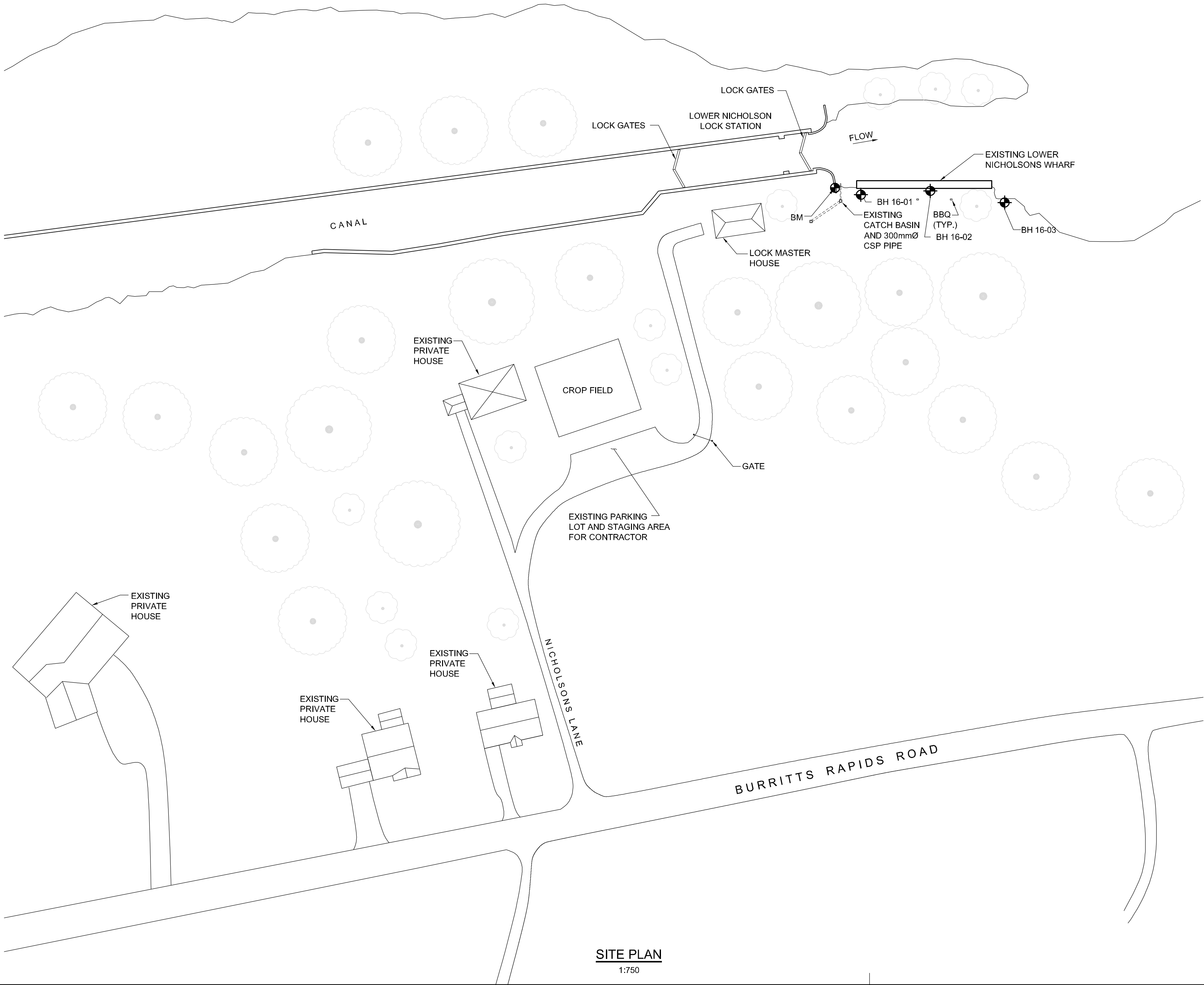
PCA PROJECT No. 30029240

Drawings List:

—	COVER SHEET
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GN-0	GENERAL NOTES
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RIDEAU RIVER



NOTES:
1. LOCATIONS OF BOREHOLES ARE APPROXIMATE.



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Do not scale drawings.
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A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
MERRICKVILLE ONTARIO
PARKS CANADA AGENCY
45 NICHOLSON LANE

LOWER NICHOLSONS LOCK WHARF REPLACEMENT

drawing title
titre du dessin
SITE PLAN

drawn by
dessiné par
ALEKSANDRA MAKSIMOVIC

designed by
conc par
FELIX WASIEWICZ

approved by
approuvé par
JULIA MARSON

tender
soumission
JEAN-FRANCOIS CHARRON

project manager
administrateur
de projets
JEAN-FRANCOIS CHARRON

project date
date du projet
2017/07/10

project no.
no. du projet
30029240

drawing no.
dessiné no.
SP-1

BENCH MARK:
BRASS MONUMENT NUM.: 753808A
IN TOP SURFACE OF MASONRY
WING WALL
NAME: NICHOLSON LOCK 031B13
UTM N 4978275.335
UTM E 435636.389
ELEVATION: 90.538m GEO.

GENERAL NOTES:

1. THE DESIGN IS BASED ON LIMITED INFORMATION FROM GEOTECHNICAL INVESTIGATION AND BEDROCK ELEVATION CAN VARY FROM WHAT IS SHOWN ON THE PLANS. CONTRACTOR SHALL EVALUATE HIS SCHEDULE AND PROCEDURE AND IF NECESSARY CARRY OUT TEST PIT EXCAVATIONS IN FREQUENCY AND EXTENT AS REQUIRED TO POSITIVELY AND ACCURATELY DEFINE BEDROCK ELEVATIONS.
2. THE HEIGHT OF CRIBS WILL VARY TO SUIT THE BEDROCK ELEVATIONS.
3. UPON COMPLETION THERE SHALL BE NO ENCROACHMENT ON THE NAVIGATIONAL DEPTH OF 1.5 METRES BELOW LOWEST RECORDED OPERATIONAL WATER LEVEL.
4. THE CONSTRUCTION SHALL BE CARRIED OUT IN THE WATER.
5. THE CONTRACTOR SHALL VERIFY ALL DETAILS AND DIMENSIONS OF THE STRUCTURE AND REPORT DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
6. THE SCOPE OF WORK ON THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS EXHAUSTIVE. THE ORDER PRESENTED IS NOT NECESSARILY IN SEQUENCE OF ACTUAL CONSTRUCTION.
7. THE SITE WILL BE CLOSED TO THE PUBLIC DURING CONSTRUCTION WITH SPECIFIC TIME LINES SPECIFIED IN CONTRACT. CONTRACTOR SHALL ALLOW ACCESS FOR PARKS CANADA PERSONNEL AND PROVIDE AT LEAST TWO CONVENIENT PARKING SPOTS.
8. ALL PLATFORMS REQUIRED TO ACCESS THE WORK AREAS SHALL BE CONSTRUCTED IN FULL CONFORMANCE WITH MINISTRY OF LABOUR REQUIREMENTS AND OCCUPATIONAL HEALTH AND SAFETY ACT.
9. ALL ENVIRONMENTAL PROTECTION SYSTEMS TO BE FULLY (100%) EFFECTIVE IN PREVENTING CONTAMINATION OF ENVIRONMENT AND WATER.
10. CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC, HIS WORKERS AND PUBLIC FROM TIME OF EXECUTION OF CONTRACT AND UNTIL THE WORK IS DECLARED COMPLETED.
11. CONTRACTOR TO ASSURE STABILITY AND SAFETY OF ALL COMPONENTS AND TEMPORARY STRUCTURES IN ALL PHASES OF CONSTRUCTION.
12. CONTRACTOR SHALL CARRY OUT FULL LOCATES OF ALL UNDER AND OVERGROUND UTILITIES ON SITE INCLUDING BUT NOT LIMITED TO; STORM SEWER FACILITIES, SANITARY LINES AND SEPTIC BEDS AND TANKS, ELECTRICAL AND TELECOMMUNICATION INSTALLATIONS, WATER SUPPLY LINE AND WELLS. ALL UTILITIES TO BE MAINTAINED AND PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED TO ENSURE UTILITIES FULL FUNCTIONALITY TO AT LEAST EXISTING CONDITIONS.
13. THE SITE SHALL BE REINSTATED TO ORIGINAL OR BETTER CONDITION.
14. THIS IS A WINTER WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SNOW, ICE REMOVAL AND MAINTENANCE OF ACCESS ROAD, HEATING AND CURING OF WORK.
15. WORK IS ADJACENT AND ABUTS A RIDEAU CANAL LOCK THAT IS A HERITAGE SITE AND SHALL NOT BE DISTURBED/IMPACTED DURING CONSTRUCTION EXCEPT WORK ASSOCIATED WITH CONSTRUCTING NEW AS IT ABUTS THE LOCK STRUCTURE.
16. WATER ELEVATION DURING NON-NAVIGATION SEASON VARIES FROM 88.20 TO 88.25.
17. ALL ELEVATIONS SHOWN ARE IN METRES, UNLESS STATED OTHERWISE.
18. CONTRACTOR IS HEREBY INFORMED THAT THE STREAMBED IS UNEVEN AND BOTTOM OF TURBIDITY CURTAIN SHALL FOLLOW THE IRREGULARITIES OF THE STREAMBED AND ENSURE A TIGHT FIT TO PREVENT ANY AND ALL RELEASES OF SEDIMENT OR OTHER MATERIALS FROM THE CONSTRUCTION AREA.
19. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING CATCH BASINS WITHIN WORK AREA.

GENERAL SUMMARY OF WORK:

- A. PROVIDE ACCESS TO WORK AREA, INCLUDING ALL WINTER SNOW REMOVAL AND MAINTENANCE.
- B. CONSTRUCT ACCESS ROADS.
- C. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- D. INSTALL TURBIDITY CURTAINS.
- E. IMPLEMENT TREE PROTECTION SYSTEM AND MEASURES.
- F. STRIP GRASS AND TOP SOIL AS REQUIRED FOR REMOVALS AND NEW CONSTRUCTION.
- G. REMOVE FIXTURES (BARBACUES/BENCHES) FOR REINSTATEMENT.
- H. EXCAVATE FOR STRUCTURE REMOVAL AND RECONSTRUCTION.
- I. PLACE ROCK FILL MATTRESS FOR NEW WHARF.
- J. CONSTRUCT NEW WHARVES.
- K. REPLACE OUTLET PIPE FROM CATCHBASINS AND REPAIR CATCHBASIN.
- L. PLACE RIP RAP IN FRONT OF THE WHARVES.
- M. BACKFILL WHARVES.
- N. INSTALL TOP SOIL AND SOD.
- O. INSTALL NEW BOLLARDS ON WHARVES.
- P. REMOVE ACCESS ROAD AND REINSTATE.
- Q. REINSTATE ALL AREAS USED FOR CONSTRUCTION.

MATERIAL NOTES:

1. CONCRETE SHALL BE CLASS C1 EXPOSURE WITH COMPRESSIVE STRENGTH AS TESTED OF 35 MPa MINIMUM.
2. ALL REINFORCING STEEL SHALL BE PREMIUM AND AS A MINIMUM EPOXY COATED. GALVANIZED OR STAINLESS STEEL REINFORCING IS ALSO ACCEPTABLE.
3. ALL BOLTS SHALL BE COUNTERSUNK AGAINST THE AREAS WHERE EXPOSED TO NAVIGATION AND WHERE REQUIRED FOR JOINING OF MEMBERS.
4. THE TIMBER FOR CRIBBING SHALL BE SS OR NO.1 COASTAL DOUGLAS FIR GRADED ACCORDING TO NLGA STANDARD GRADING RULES FOR CANADIAN TIMBER.
5. ALL WOOD SHALL BE MARKED USING A GRADE STAMP OF AN ASSOCIATION OR INDEPENDENT GRADING AGENCY ACCORDING TO CAN/CSA O141.
6. ALL WOOD IN CRIBS SHALL BE PRESSURE TREATED.THE TYPE OF PRESERVATIVE AND NET RETENTIONS SHALL BE AS PER CSA O80 FOR CATEGORY: UC4.2
7. ALL STEEL FASTENERS USED SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH CAN/CSA G164.NAILS AND SPIKES SHALL BE HOT DIP GALVANIZED TO CSA B111 OR STAINLESS STEEL 304 OR 316 GRADE. STAINLESS STEEL CONNECTORS CAN BE USED IN LIEU OF HOT DIP GALVANIZED.
8. TIMBERS FOR CRIBBING SHALL BE PRE-CUT AND PRE-BORED PRIOR TO PRESERVATIVE TREATMENT.
9. ALL FIELD CUTS IN TIMBERS TO BE TREATED WITH WOOD PRESERVATIVE.



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No. du détail
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dessin no. – où détaillé

project title
titre du projet
MERRICKVILLE
PARKS CANADA AGENCY
45 NICHOLSON LANE
ONTARIO

LOWER NICHOLSONS LOCK
WHARF REPLACEMENT

drawing title
titre du dessin
GENERAL NOTES

drawn by
dessine par
ADRIAN MEUNIER

designed by
conc par
FELIX WASIEWICZ

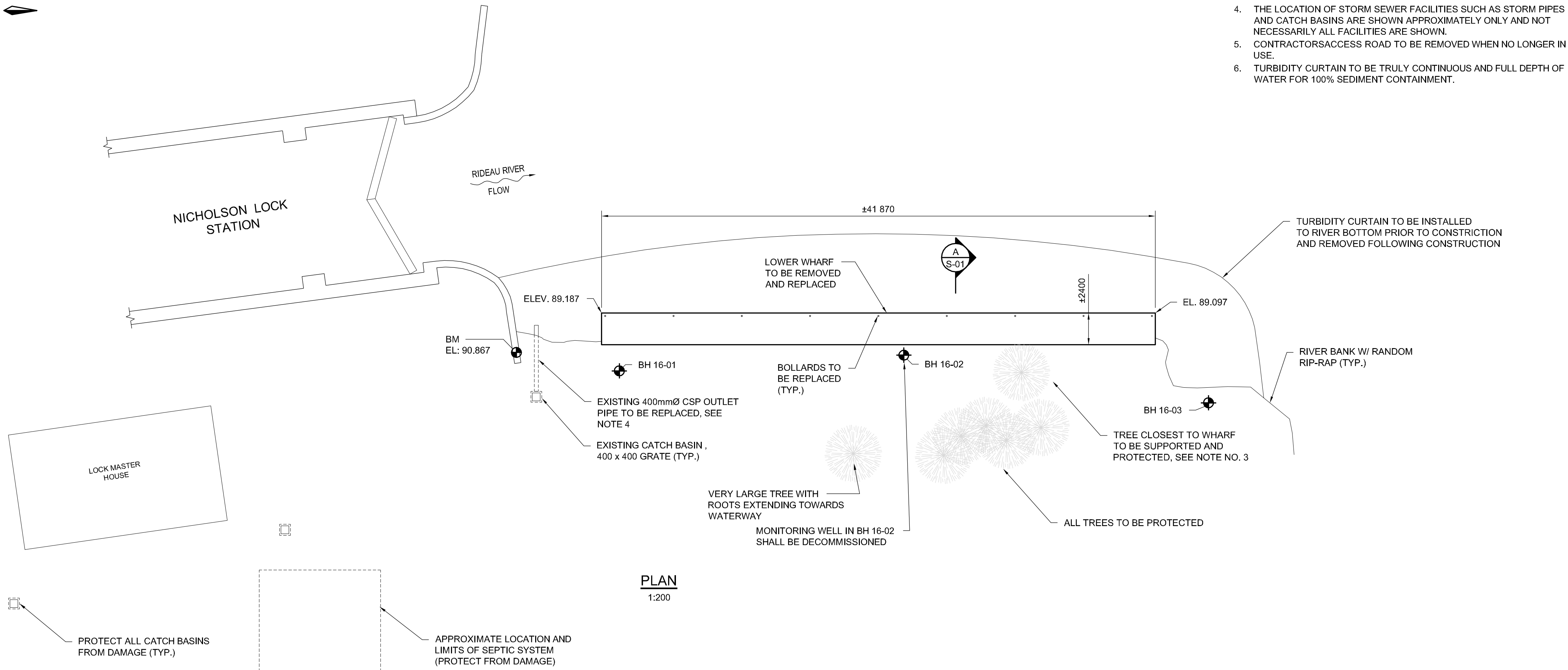
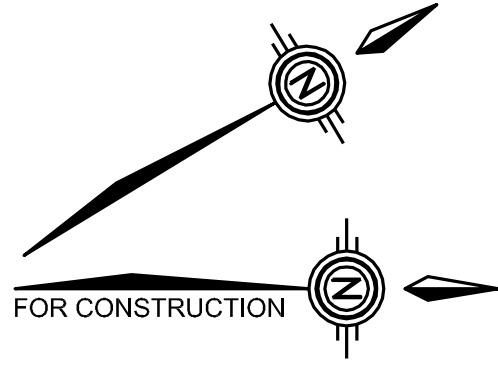
approved by
approuve par
JULIA MARSON

tender
soumission
JEAN-FRANCOIS CHARRON
project manager
administrateur
de projets

project date
date du projet
2017/07/10

project no.
no. du projet
30029240

drawing no.
dessine no.
GN-0



- NOTES:**
1. LOCATIONS OF BOREHOLES ARE APPROXIMATE.
 2. CONSTRUCTION OF EXISTING CRIB IS UNKNOWN.
 3. LARGE TREE ADJACENT TO WHARF SHALL BE PROTECTED DURING THE WORK. CONTRACTOR SHALL TRIM TREE BRANCHES ABOVE 10m HEIGHT AND TIE BACK THE TRUNK OF THE TREE TO ADJACENT TREES TO PREVENT MOVEMENT TOWARDS THE EXCAVATION AND WATERWAY. CONTRACTOR SHALL EXCAVATE AROUND TREE ROOTS AND MINIMIZE ANY CUTTING OF TREE ROOTS.
 4. THE LOCATION OF STORM SEWER FACILITIES SUCH AS STORM PIPES AND CATCH BASINS ARE SHOWN APPROXIMATELY ONLY AND NOT NECESSARILY ALL FACILITIES ARE SHOWN.
 5. CONTRACTORS ACCESS ROAD TO BE REMOVED WHEN NO LONGER IN USE.
 6. TURBIDITY CURTAIN TO BE TRULY CONTINUOUS AND FULL DEPTH OF WATER FOR 100% SEDIMENT CONTAINMENT.



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PARKS CANADA AGENCY
45 NICHOLSON LANE

**LOWER NICHOLSONS LOCK
WHARF REPLACEMENT**

drawing title
titre du dessin
**GENERAL ARRANGEMENT
REMOVALS**

drawn by
dessiné par
ALEKSANDRA MAKSIMOVIC

designed by
conc par
FELIX WASIEWICZ

approved by
approuvé par
JULIA MARSON

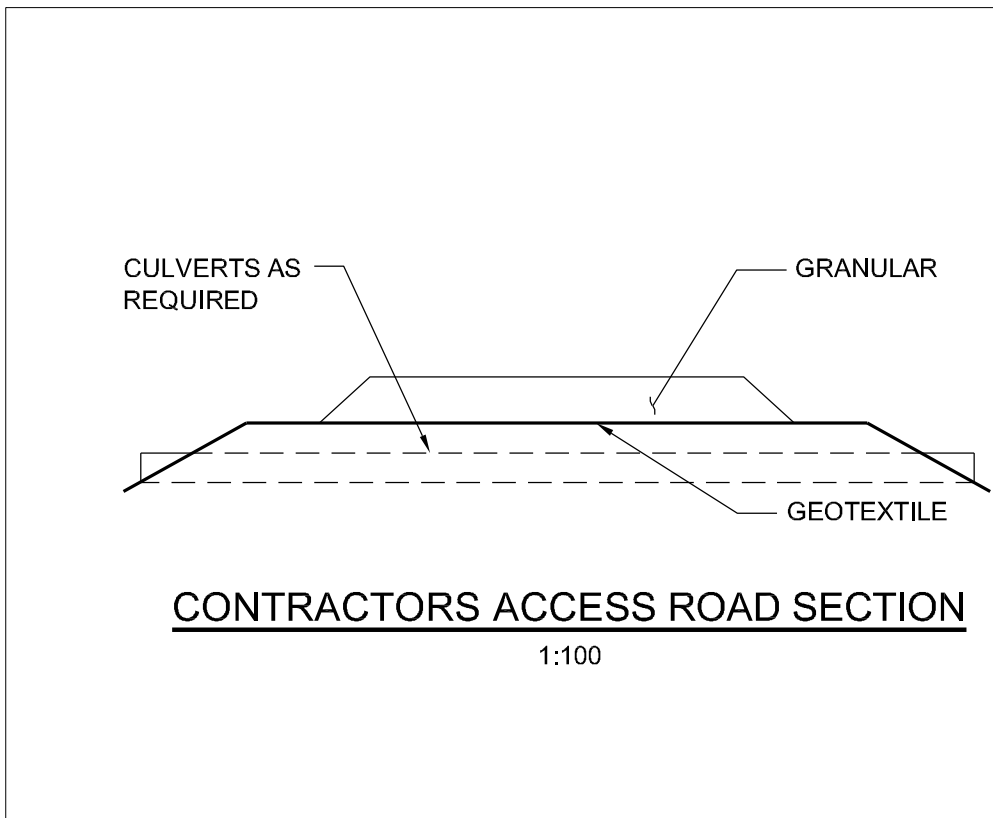
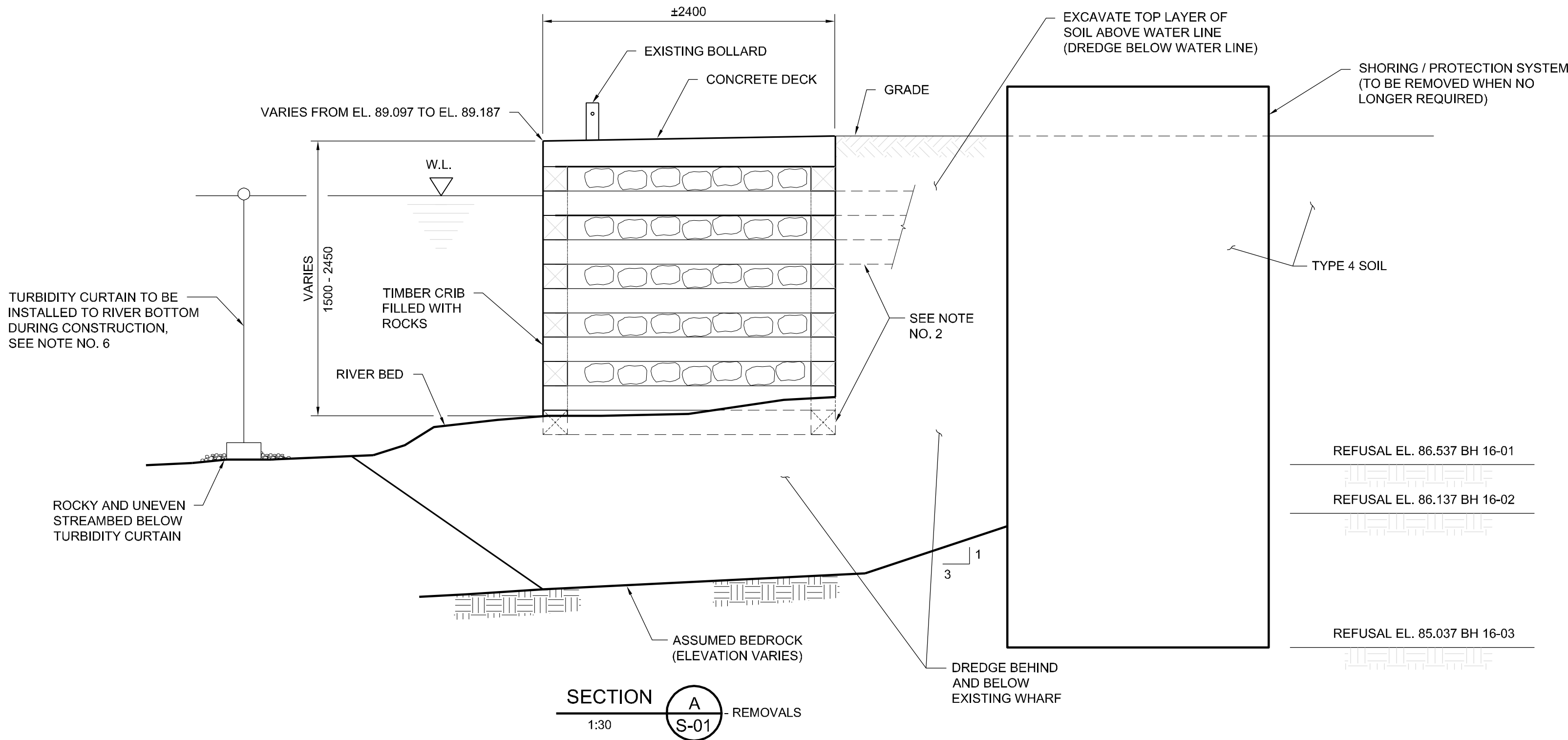
tender
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JEAN-FRANCOIS CHARRON

project manager
administrateur
de projets

project date
date du projet
2017/07/10

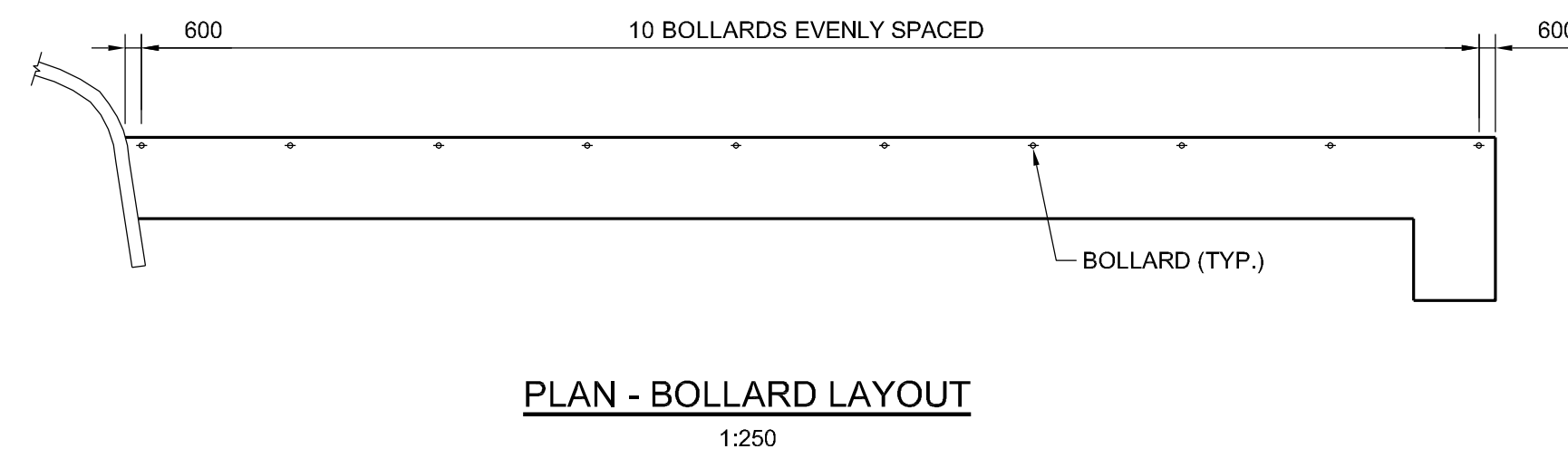
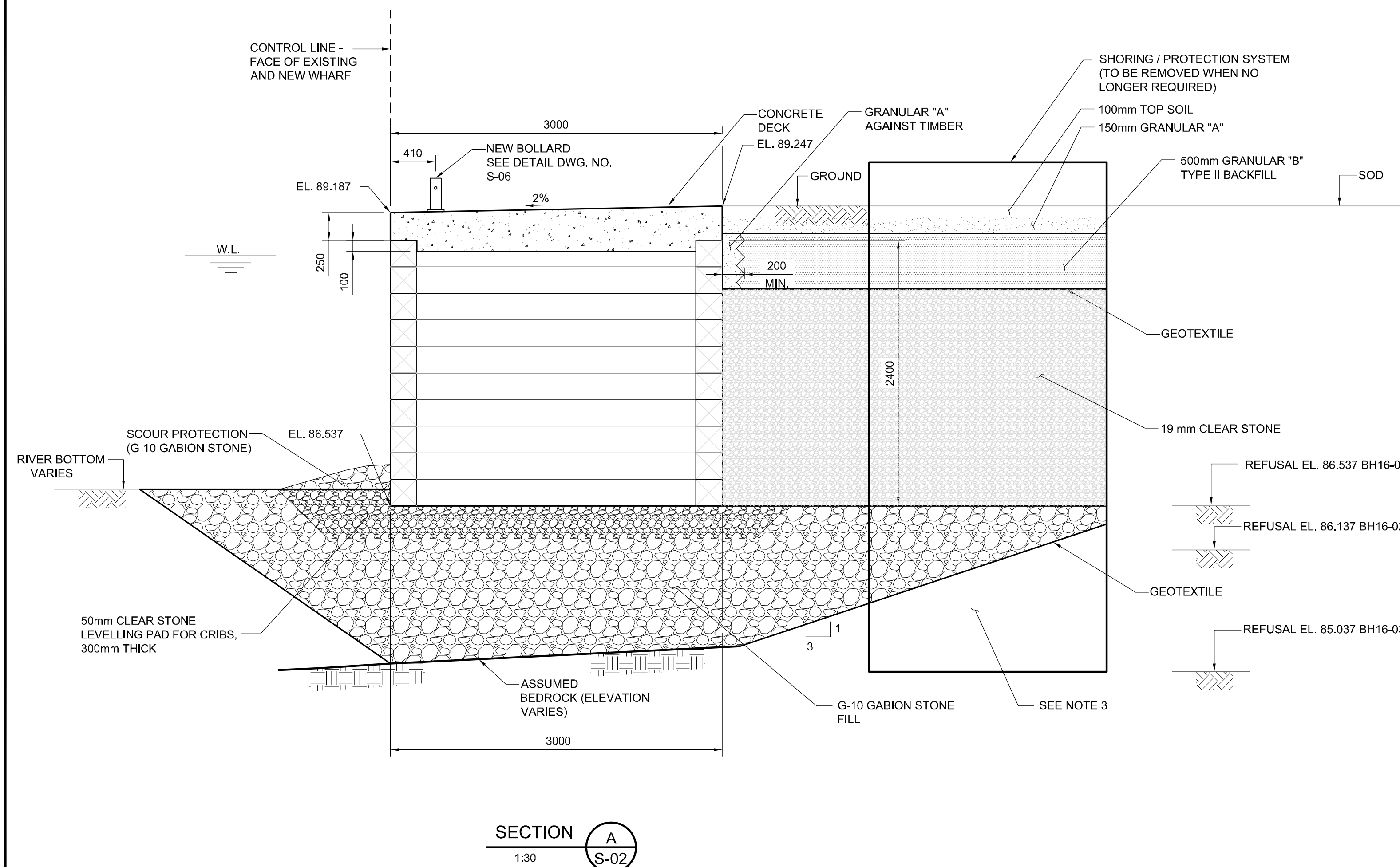
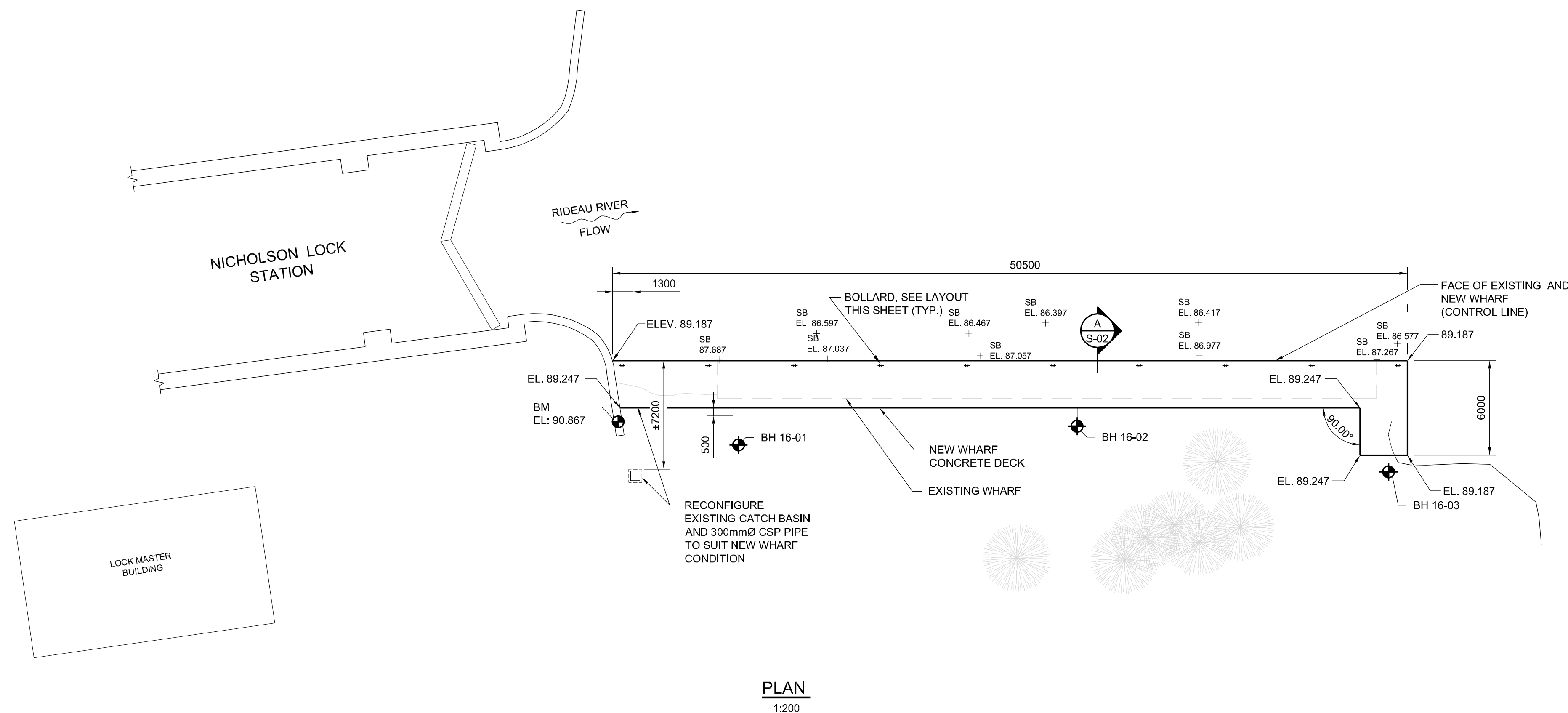
project no.
no. du projet
30029240

drawing no.
dessiné no.
S-01



BENCH MARK:

BRASS MONUMENT NUM.: 753808A
IN TOP SURFACE OF MASONRY
WING WALL
NAME: NICHOLSON LOCK 031B13
UTM N 4978275.335
UTM E 435636.389
ELEVATION: 90.867m GEO.

**NOTES:**

- LOCATIONS OF BOREHOLE ARE APPROXIMATE.
- FOR NAVIGATION PURPOSES FOLLOWING CONSTRUCTION NOTHING CAN PROTRUDE FROM RIVER BOTTOM OR SIDE OF TIMBER CRIB ABOVE ELEVATION 87.237 TO PROVIDE 1500 MINIMUM NAVIGATIONAL WATER DEPTH.
- SUBJECT TO DESIGN OF SHORING / PROTECTION SYSTEM, THE VOID REMAINING FROM THE REMOVAL OF SUCH SYSTEM SHALL BE BACKFILLED AS SHOWN, WITH APPROVED NATURAL SALVAGED MATERIAL TO THE ELEVATION OF THE BOTTOM OF THE GABION STONE.



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project title
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MERRICKVILLE ONTARIO
PARKS CANADA AGENCY
45 NICHOLSON LANE

**LOWER NICHOLSON'S LOCK
WHARF REPLACEMENT**

drawing title
titre du dessin

**GENERAL ARRANGEMENT
PROPOSED NEW CONSTRUCTION
PLAN AND SECTION**

drawn by
dessiné par **ADRIAN MEUNIER**

designed by
conc par **FELIX WASIEWICZ**

approved by
approuvé par **JULIA MARSON**

tender
soumission **JEAN-FRANCOIS CHARRON** project manager
administrateur de projets

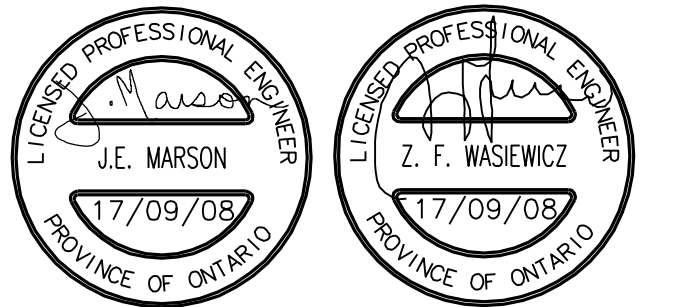
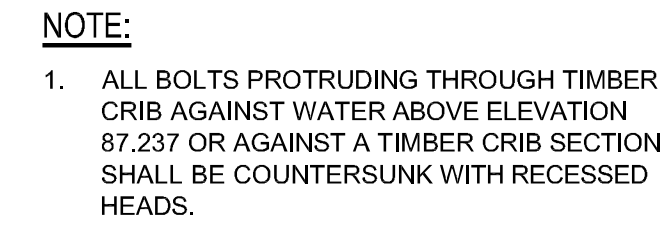
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project no.
no. du projet **30029240**

drawing no.
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IN TOP SURFACE OF MASONRY
WING WALL
NAME: NICHOLSON LOCK 031B13
UTM N 4978275.335
UTM E 435636.389
ELEVATION: 90.867m GEO.



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MERRICKVILLE
PARKS CANADA AGENCY
45 NICHOLSON LANE

ONTARIO

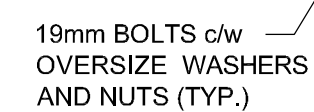
drawing title
titre du dessin

PROPOSED WHARF DETAILS

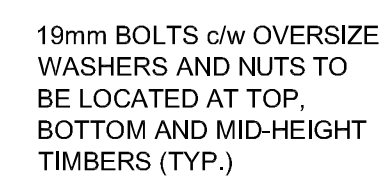
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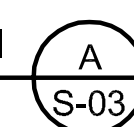
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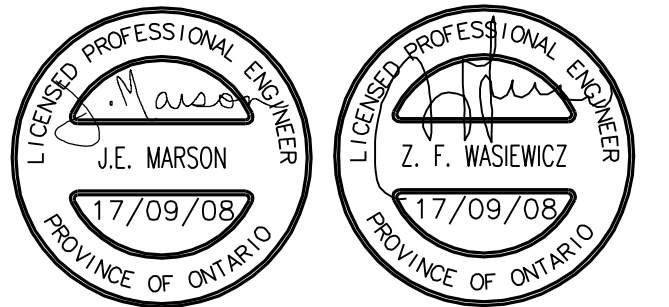
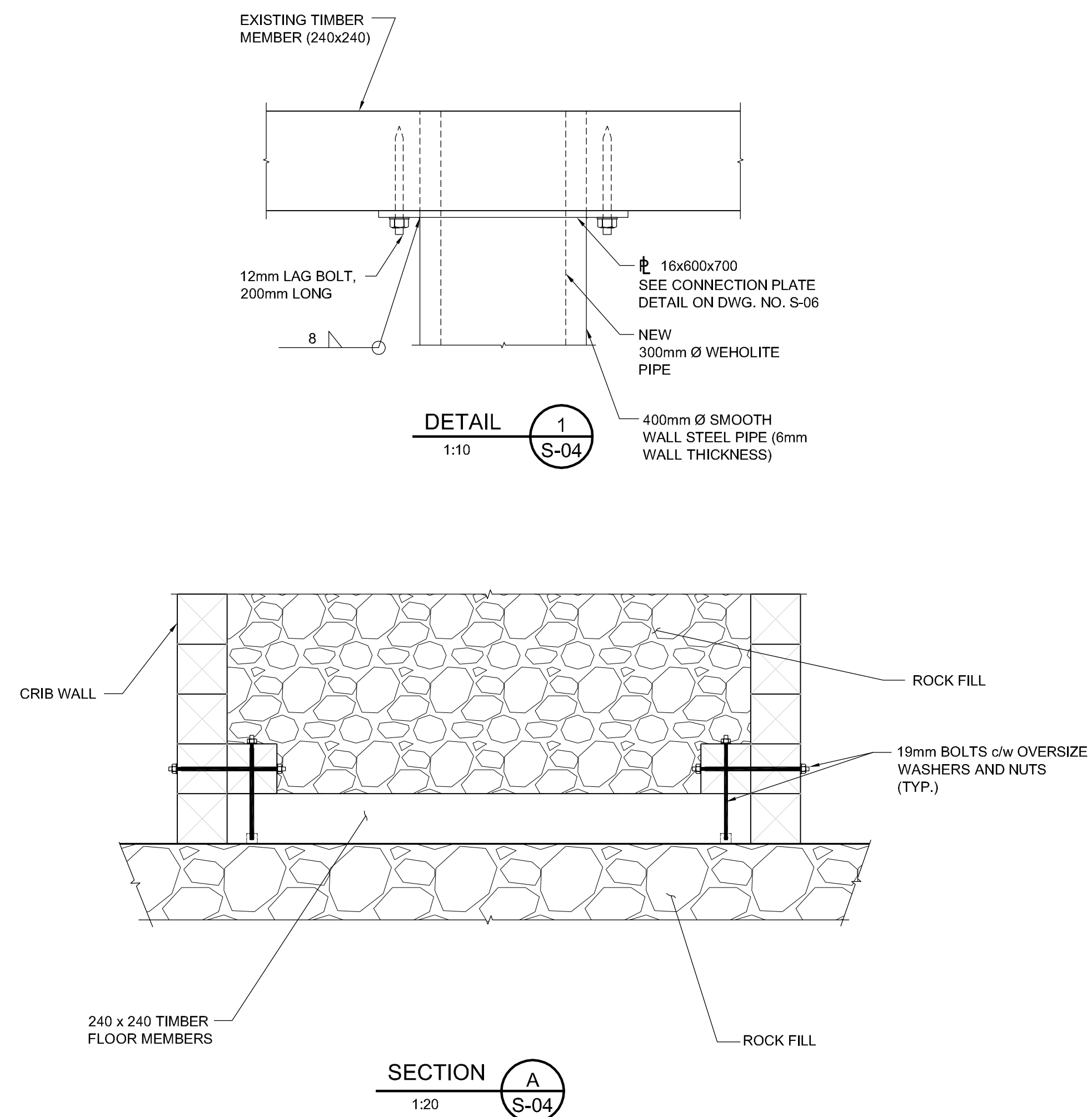
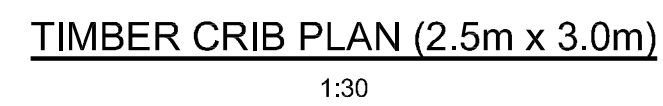


1:30




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titre du projet

MERRICKVILLE
PARKS CANADA AGENCY
45 NICHOLSON LANE

ONTARIO

LOWER NICHOLSONS LOCK
WHARF REPLACEMENT

drawing	title
titre du	dessin

TIMBER CRIB DETAILS

drawn by
dessine par

designed by	
conc par	FELIX WASIEWICZ

approved by
approuvé par JULIA MARSON

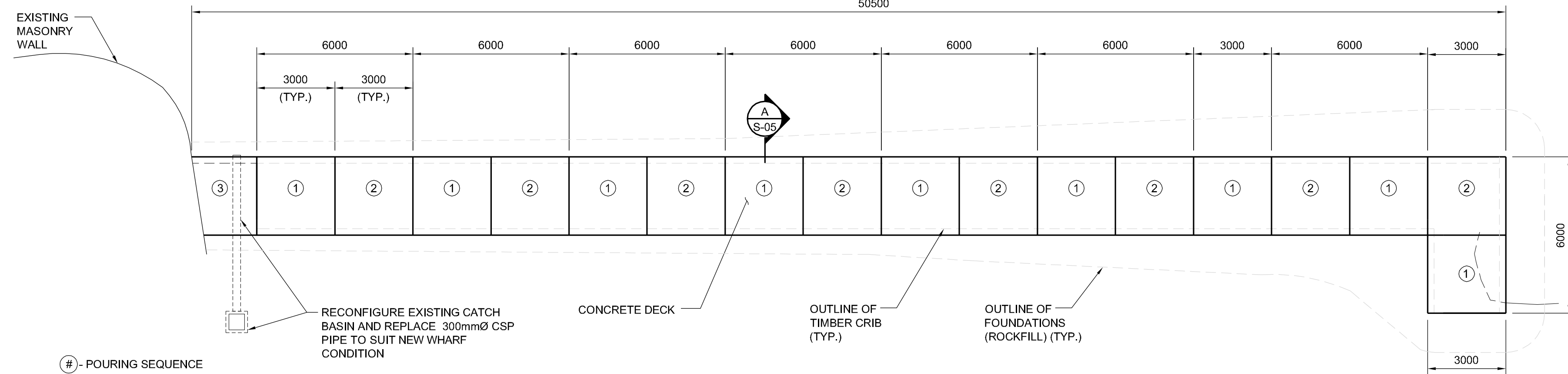
tender soumission	project manager administrateur de projets
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project date date du projet	2017/07/10
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project no. no. du projet	30029240
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drawing no.
dessine no.

S-04



PLAN - CONCRETE DECK POURING SEQUENCE

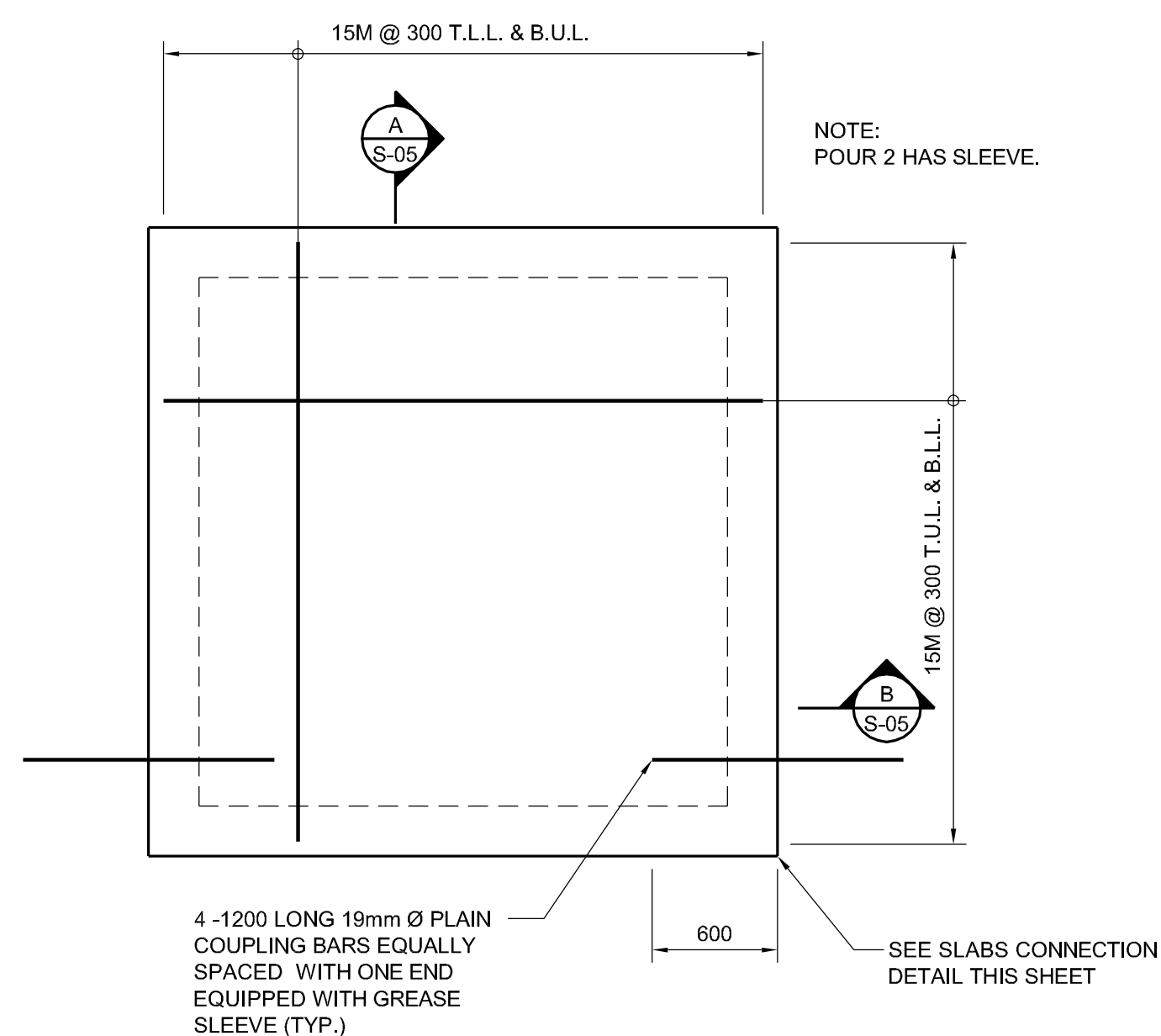
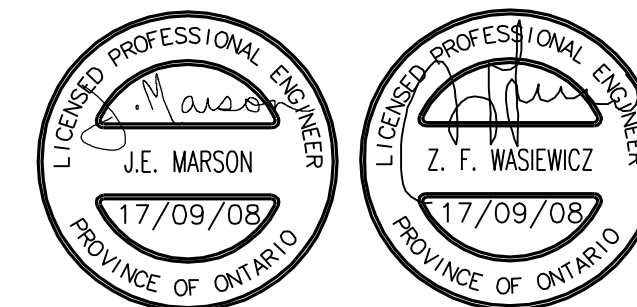
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NOTES:

1. PENETRATING CONCRETE SEALER TO BE APPLIED TO ALL CONCRETE SURFACES OF THE NEW WHARF DECK.

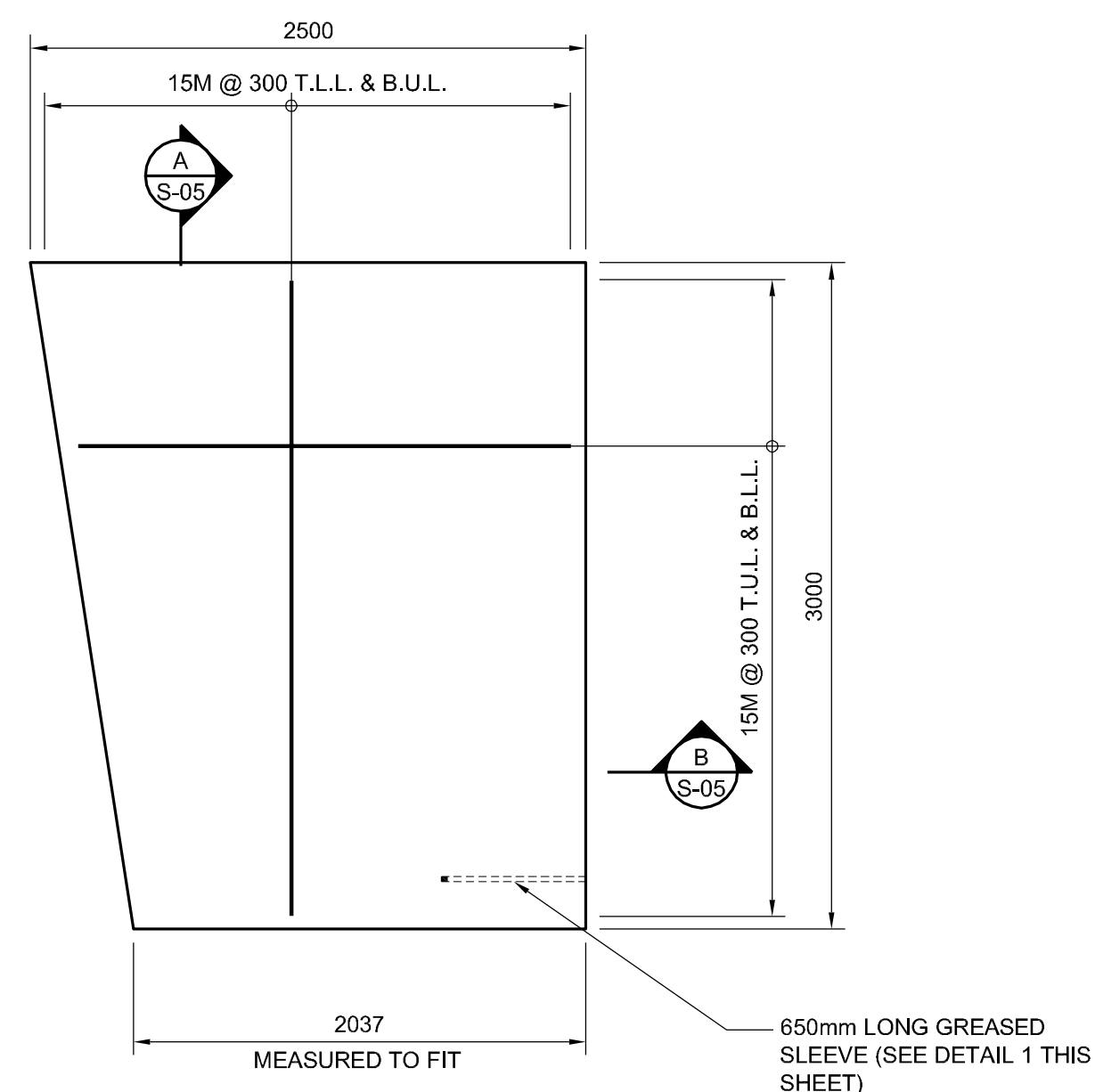
LEGEND

T.U.L. - TOP UPPER LAYER
T.L.L. - TOP LOWER LAYER
B.U.L. - BOTTOM UPPER LAYER
B.L.L. - BOTTOM LOWER LAYER



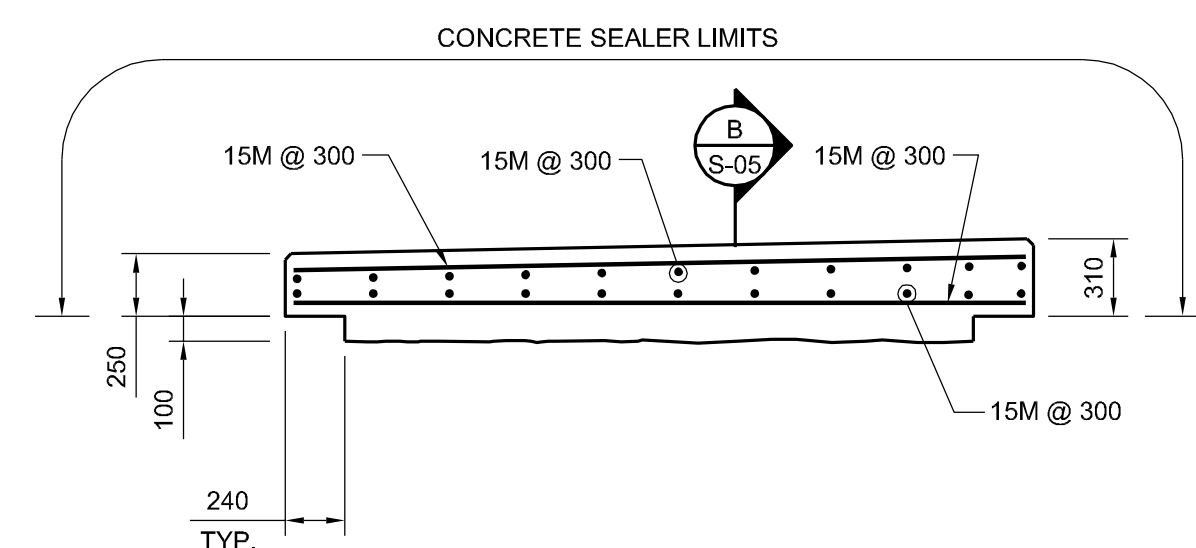
TYPICAL CONCRETE DECK REINFORCING (3.0m x 3.0m)

1:30



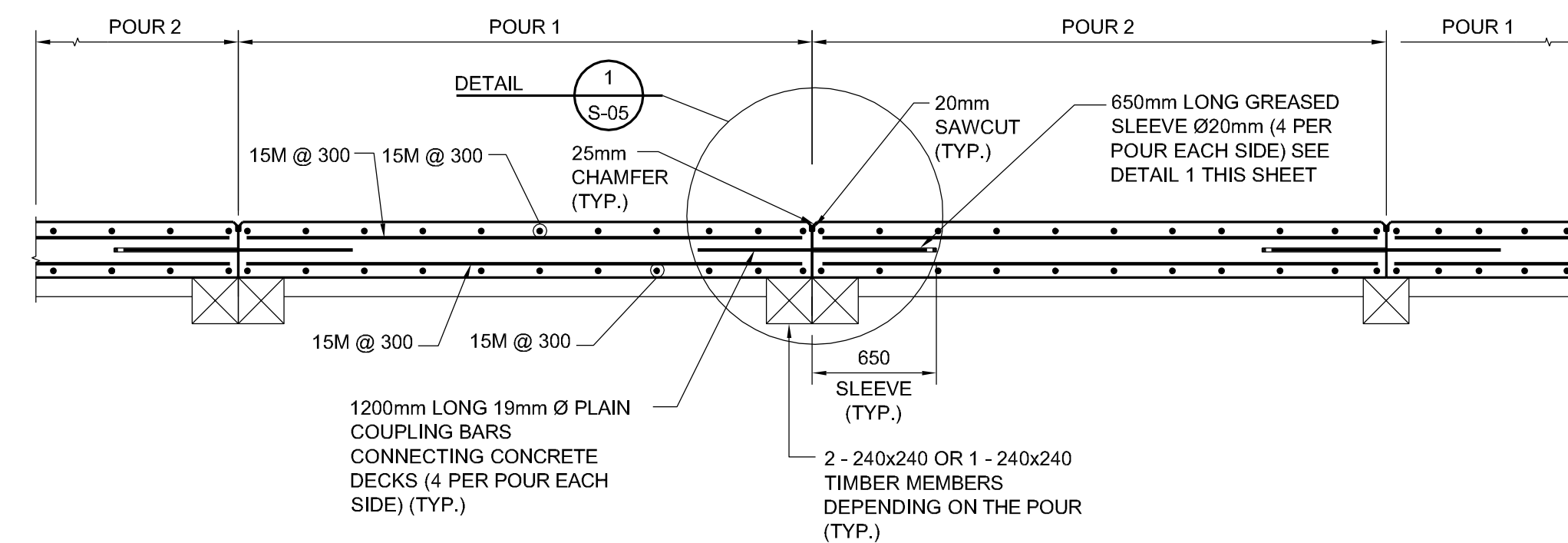
CONCRETE DECK REINFORCING - POUR 3

1:30



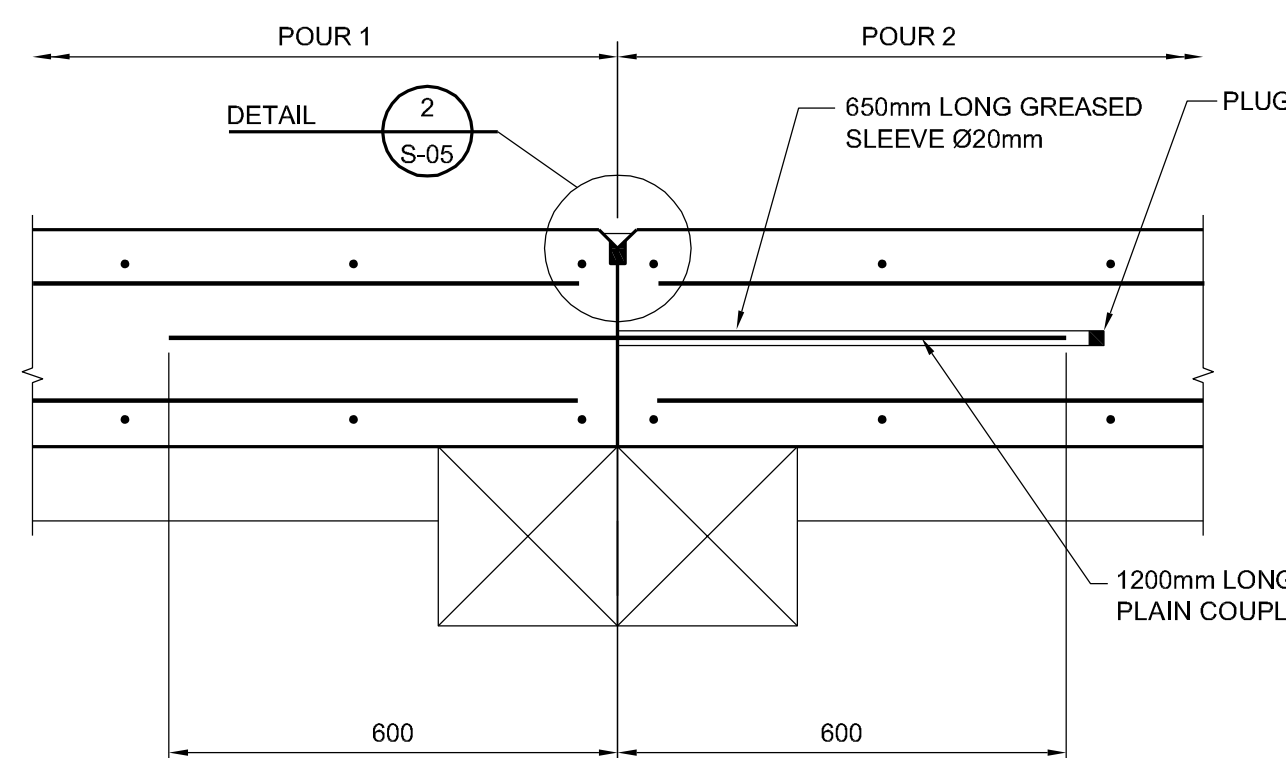
SECTION A

1:30



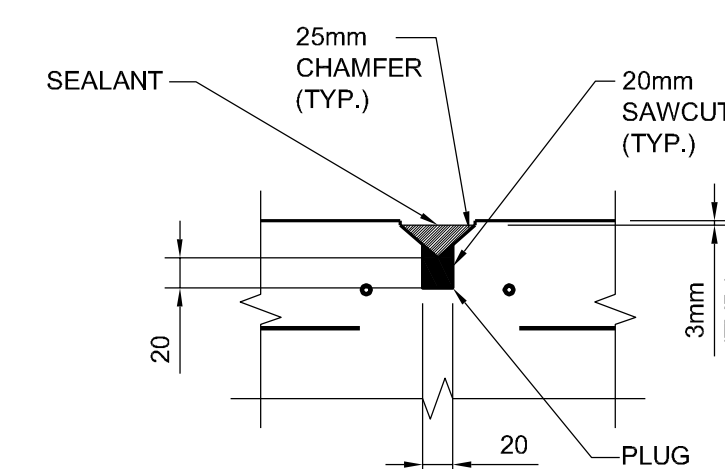
SECTION B

1:30



DETAIL 1

1:10



DETAIL 2

1:5

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MERRICKVILLE **ONTARIO**
PARKS CANADA AGENCY
45 NICHOLSON LANE

**LOWER NICHOLSONS LOCK
WHARF REPLACEMENT**

drawing title
titre du dessin

**PROPOSED NEW CONCRETE
DECK AND
REINFORCING DETAILS**

drawn by
dessiné par **ALEKSANDRA MAKSIMOVIC**

designed by
conc par **FELIX WASIEWICZ**

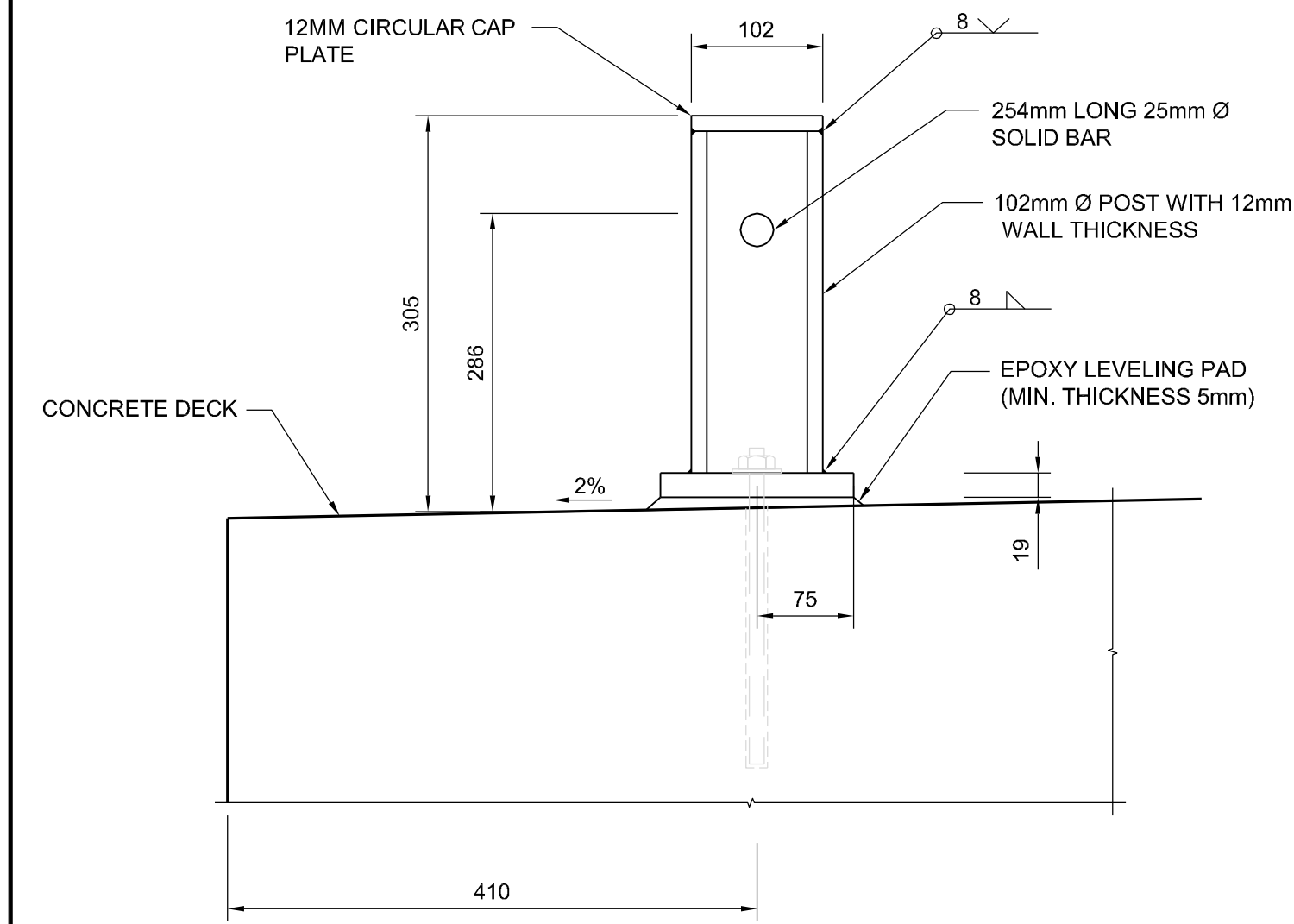
approved by
approuvé par **JULIA MARSON**

tender
soumission **JEAN-FRANCOIS CHARRON** project manager
administrateur de projets

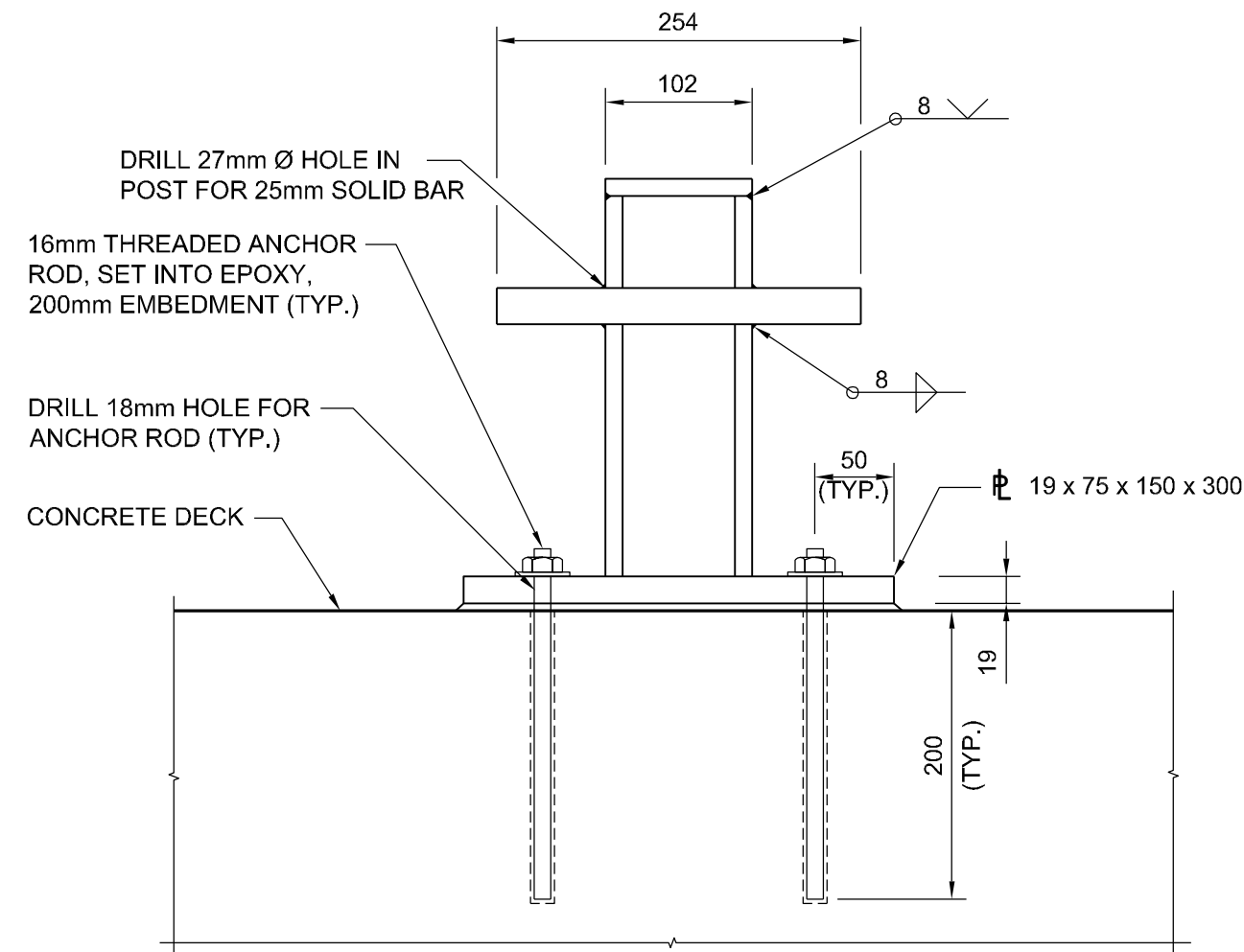
project date
date du projet **2017/07/10**

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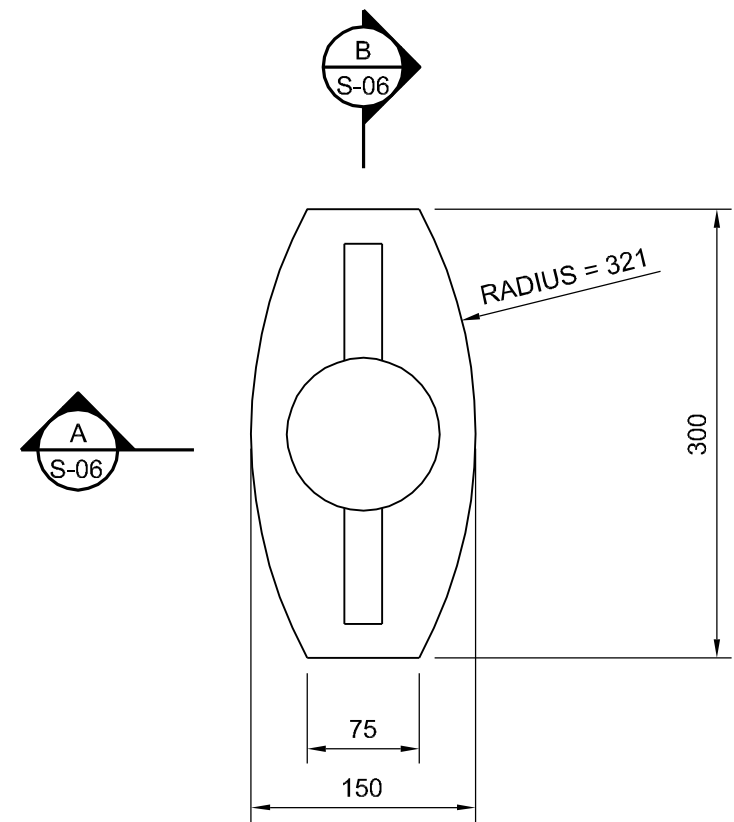
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dessiné no. **S-05**



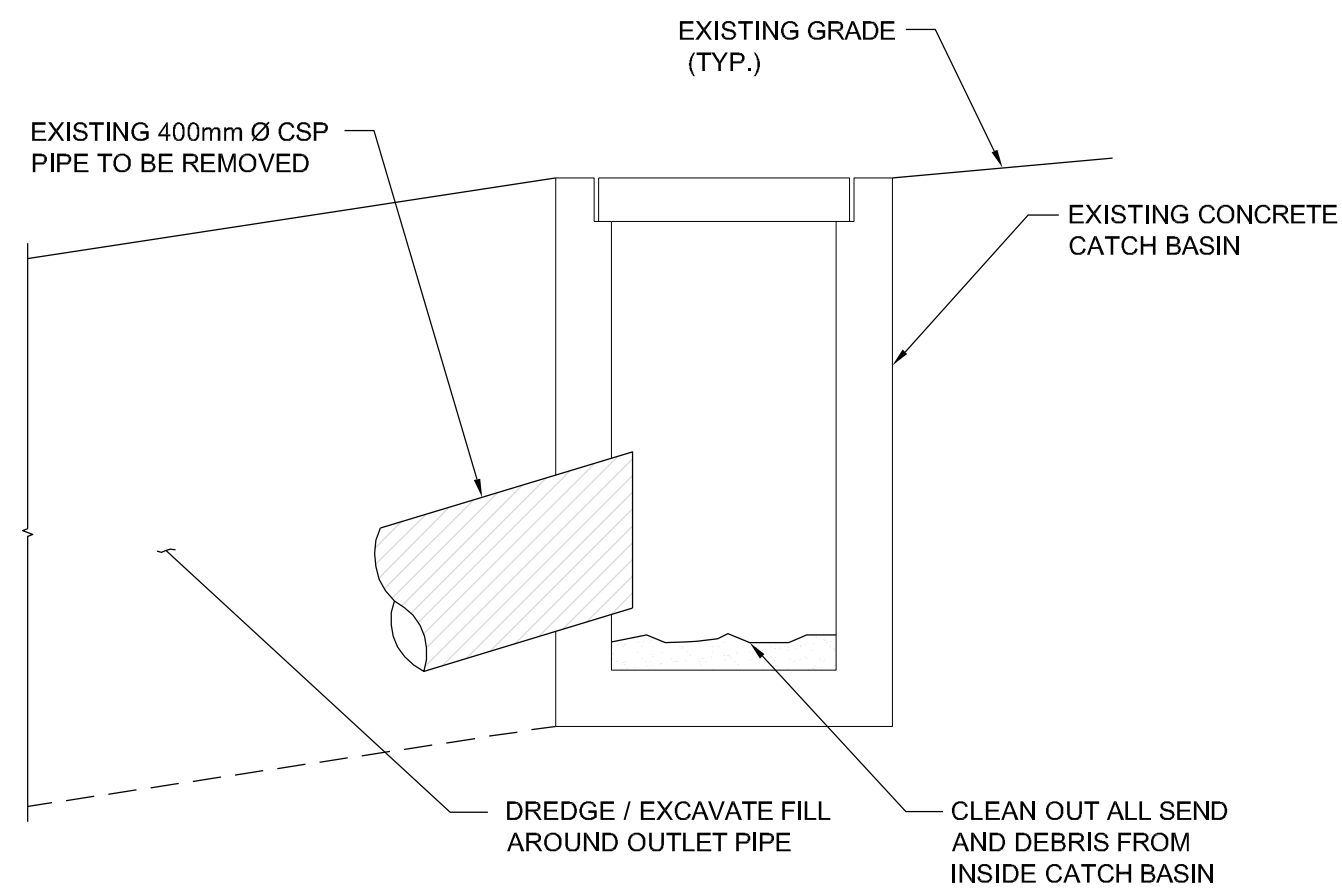
SECTION A
1:5
S-06



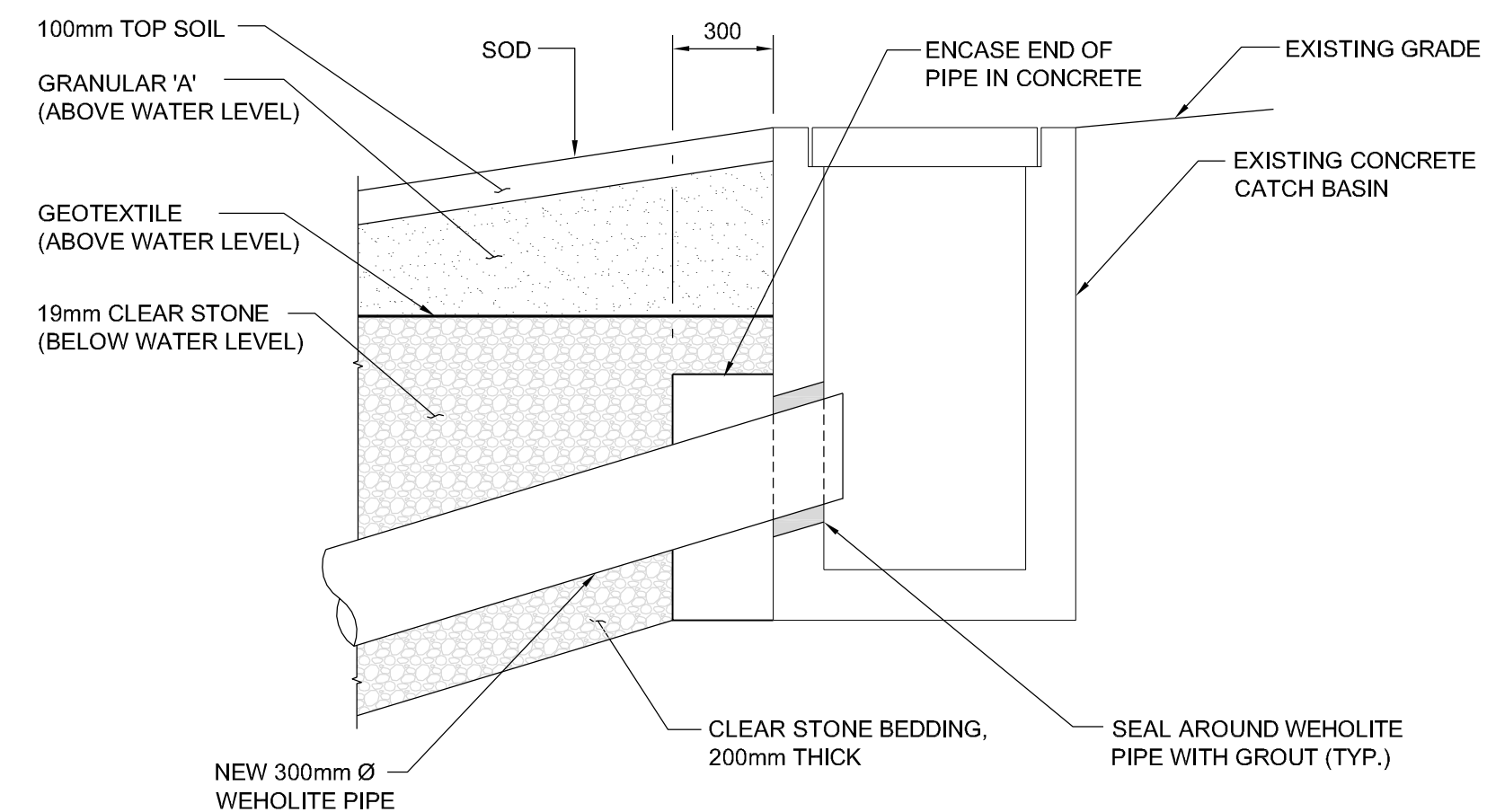
SECTION B
1:5
S-06



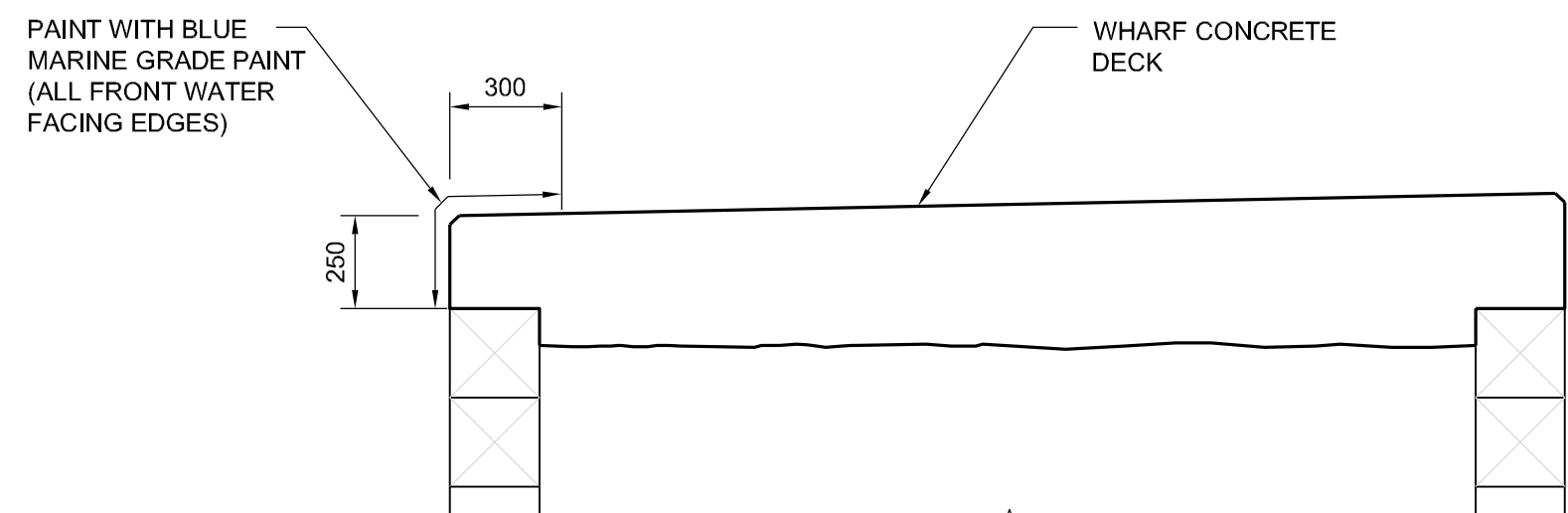
PLAN - BOLLARD DETAIL
1:5



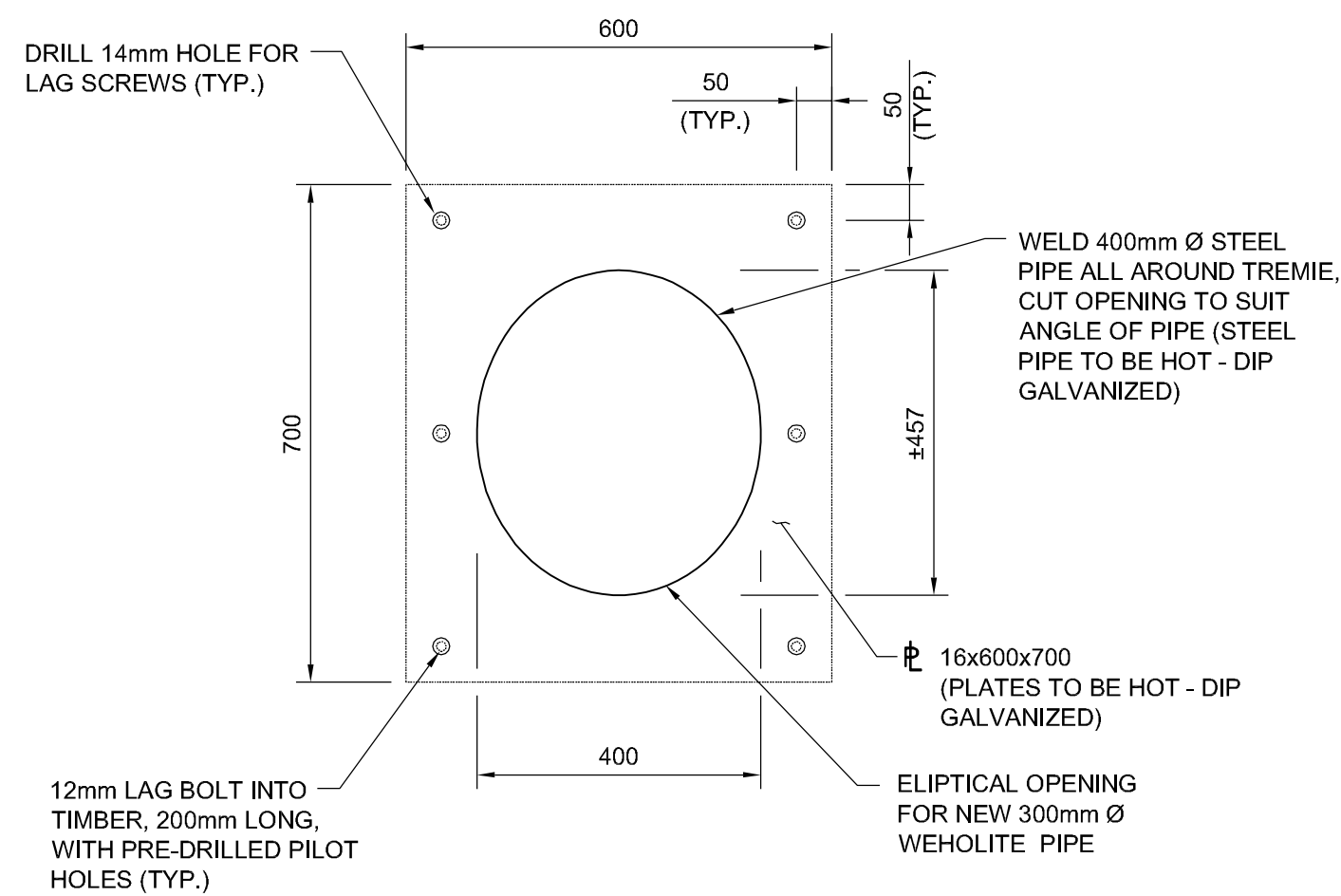
EXISTING PIPE CONNECTION DETAIL
1:20 (REMOVALS)



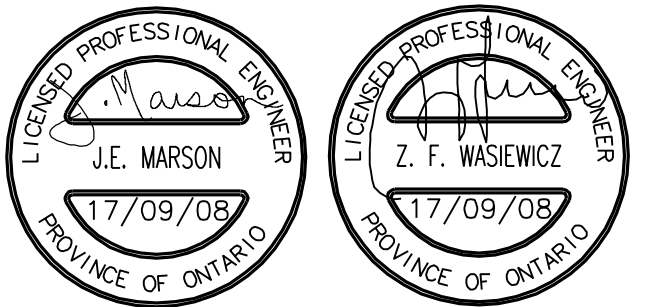
NEW PIPE CONNECTION DETAIL
1:20 (PROPOSED)



PAINTING DETAIL
1:20



CONNECTION PLATE DETAIL
1:10 (2 REQUIRED)



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project title
titre du projet
MERRICKVILLE **ONTARIO**
PARKS CANADA AGENCY
45 NICHOLSON LANE

**LOWER NICHOLSONS LOCK
WHARF REPLACEMENT**

drawing title
titre du dessin

MISCELLANEOUS DETAILS

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