

PORT DALHOUSIE, ONTARIO

MARINA RESTORATION (LOCATOR CODE 4768)



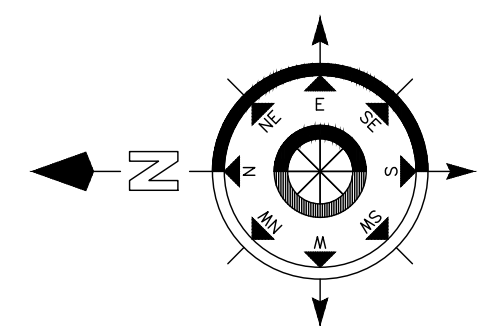
GOVERNMENT
OF CANADA

FISHERIES
AND OCEANS

GOUVERNEMENT
DU CANADA

PÊCHES
ET OCÉANS

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



AECOM

London, Ontario
519.673.0510
PROJECT No. 60528656

DRAWING FILE: C:\PROJECTS\60528656 Port Dalhousie\900-CAD-GIS\910-CAD\20-SHEETS\60528656-SHT-30-S-01

DATE: 8/9/2018 10:03:40 AM

GENERAL NOTES :

1. SAFEGUARD ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH WILL BE AFFECTED BY THE WORK OF THIS CONTRACT.
2. BEFORE PROCEEDING WITH THE WORK, CHECK AND VERIFY ALL DIMENSIONS AND ALL ELEVATIONS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION AND CONSTRAINTS DURING PERFORMANCE OF THE WORK.
4. ACCESS PERMISSION FOR SHEET PILING INSTALLATION SHALL BE ARRANGED BY SMALL CRAFT HARBOURS.
5. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
6. THE USE OF THE TERM "TYPICAL" AND "TYP." DENOTES A COMMON DIMENSION, FEATURE, FORM OF CONSTRUCTION AND SCOPE OF WORK, WHICH IS APPLICABLE TO OTHER LOCATIONS ON THE DRAWING (TO AVOID REPETITION).

CONSTRUCTION NOTES :

1. THE LOCATION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS AND OTHER UTILITIES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.
2. BEFORE STARTING WORK THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND SHALL PROTECT THEM FROM DAMAGE.
3. ALL WORK SHALL MEET THE MINIMUM STANDARDS OF THE SPECIFICATIONS AND THE OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA).
4. ENVIRONMENTAL APPLICATIONS HAVE BEEN FILED WITH VARIOUS AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION AND CONSTRAINTS DURING PERFORMANCE OF THE WORK.
5. ALL TREES, FACILITIES AND MISCELLANEOUS OBSTRUCTIONS TO THE WORK ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL COMPLETE A VISUAL SITE REVIEW PRIOR TO THE BID AND PRIOR TO UNDERTAKING THE WORK.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A SECURE SITE PERIMETER FENCE AT ALL TIMES DURING CONSTRUCTION. FENCING SHALL INCLUDE SIGNAGE NOTIFYING PUBLIC OF HAZARDS. LOCKABLE GATES SHALL BE INSTALLED TO PROVIDE VEHICLE AND PERSONNEL ACCESS.
7. THE CONTRACTOR SHALL REGULARLY CLEAN ROADS (PUBLIC AND PRIVATE) BY MECHANICAL CLEANING AND CONTROL DUST.
8. VIBRATION MONITORING OF EXISTING FACILITIES SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENT.
9. RESTORE AREAS WITH SALVAGED TOP SOIL FROM SITE FOR 150mm THICK TOPSOIL AND GRASS SEEDED, UNLESS NOTED OTHERWISE.
10. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A WORKING AS BUILT FULL SIZE 'REDLINE' MARKUP SET OF THE CONTRACT DRAWINGS. WORKING AS BUILT'S SHALL BE KEPT CURRENT ON A WEEKLY BASIS AND BE AVAILABLE ON THE JOB SITE AT ALL TIMES. THE 'REDLINE' SET SHALL DEPICT ALL CURRENT VARIATIONS/DEVIATIONS (INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ADDENDUMS, CHANGE ORDERS, FIELD ADJUSTMENTS, EXISTING AND NEW UTILITY LINES). MEASUREMENTS ARE TO BE SHOWN FOR ALL CHANGE OF DIRECTION POINTS AND ALL COMPONENTS. THESE SHALL BE SHOWN WITH TWO OFFSET DISTANCES TO PERMANENTLY FIXED FEATURES.
12. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A PRE-CONSTRUCTION SURVEY TO DOCUMENT SITE CONDITIONS PRIOR TO START OF WORK. SUBMIT SURVEY TO THE OWNER AND THE CONSULTANT.

MATERIAL SPECIFICATIONS :

1. CONCRETE : IN ACCORDANCE WITH CSA STANDARD A23.1 AND A23.2.
CLASS OF CONCRETE : 30 MPa
CLEAR COVER TO REINFORCING STEEL : 70 ± 20mm
2. STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED: 30 MPa AT 28 DAYS, EXPOSURE CLASSIFICATION F-1.
3. REINFORCING STEEL: CSA STANDARD G30.18, GRADE 400, DEFORMED BARS.
4. STRUCTURAL STEEL: CSA STANDARD G40.20/G40.21, GRADE 350W ROLLED SECTIONS, 300W PLATES.
5. BOLTS: ASTM AF3125 (25mm DIAMETER, UNLESS NOTED OTHERWISE).
6. WWF : 152x152 - MW 18.7
7. WELDING: CSA STANDARD W59 PERFORMED BY WELDERS MEETING THE REQUIREMENTS OF CSA STANDARD W47.
8. UNLESS OTHERWISE NOTED THE MINIMUM FILLET WELD SHALL BE AS FOLLOWS:

MATERIAL THICKNESS OF THICKER PART JOINED (mm)	MINIMUM SIZE OF SINGLE PASS FILLET WELD (mm)
TO 12 INCLUSIVE	5
OVER 12 TO 20	6
OVER 20 TO 40	8
OVER 40 TO 60	10
OVER 60 TO 80	12
9. SHEET PILES :
 1. STEEL SHEET PILES TO CONFORM TO ASTM A527 GRADE 50, OR CSA G40.20/G40.21 GRADE 350W.
 2. STEEL CHANNEL WALERS, PLATES, STRUTS AND BRACES TO CONFORM TO CSA STANDARD G40.20/G40.21, GRADE 350W.
10. TIE RODS :
 1. TIE RODS ANCHORING TO SSP ANCHOR WALL SHALL BE 36mm DIAMETER (#11) GRADE 75 (ASTM A615) THREADBAR.
 2. PROVIDE BEVELED WASHERS AND PLATES WITH MINIMUM PLATE THICKNESS OF 16mm.
 3. ALL TIE RODS, COUPLERS AND HEX NUTS TO BE PROVIDED BY ANCHOR SUPPLIER.
 4. STRESS 36mm DIAMETER DYWIDAG TIE RODS TO 50 - 75 MPa, SNUG FIT.

SHEET PILE NOTES :

1. CORNER SECTIONS SHALL BE PROVIDED AT ALL BENDS TO SHEETING.
2. MECHANICAL COUPLERS/TURNBUCKLES WITH LOCK NUTS FOR. TIES SHALL BE PROVIDED AS REQUIRED TO SUIT THE TIE LENGTHS.
3. LOCATIONS/DETAILS OF WALER SPLICE PLATES ARE SHOWN ON THE DRAWINGS. THE NUMBER AND ACTUAL LOCATION OF EACH WALER SPLICE PLATE IS TO BE DETERMINED BY THE CONTRACTOR TO SUIT THE WALER PIECE LENGTHS.
4. DRIVING CAPS SHALL BE USED TO PROTECT THE PILE TOPS DURING INSTALLATION.
5. TOP DRIVING GUIDES SHALL BE USED FOR SHEET PILE ALIGNMENT.
6. THE CONTRACTOR SHALL NOTE THAT THE INSTALLATION OF SHEETING WILL NOT RESULT IN A REDUCTION TO WATER LEVEL ON THE FILL SIDE.
7. TYPICAL SPACING OF TIEBACKS AND DEADMEN IS PROVIDED ON THE DRAWINGS. SPACING OF DEADMEN MAY BE MODIFIED TO AVOID SPATIAL CONFLICTS SUBJECT TO ENGINEER'S APPROVAL.
8. THE CONTRACTOR SHALL PROVIDE LAYOUT OF THE SHEET PILE WALL TO SUIT THE EXISTING STRUCTURE ARRANGEMENT. THE CONTRACTOR MAY MAKE MINOR ADJUSTMENTS TO THE WALL LAYOUT SHOWN, AS REQUIRED TO ACCOMMODATE PILE SHAPE, INTERLOCKS, BENDS, INTERFACE WITH ADJACENT STEEL SHEET PILE WALLS EXISTING STRUCTURES, OBSTRUCTIONS, ETC. ALL PROPOSED ADJUSTMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
9. PILE CAP AND BOLLARDS TO BE PAINTED WHITE.

DESIGN LOADING :

1. PIER LIVE LOAD : 7.2 kN/m²

SURVEY INFORMATION :

1. ELEVATIONS BASED UPON CANADIAN GEODETIC VERTICAL DATUM.
2. BENCHMARK :
LOCATED AT WEST CONCRETE FOUNDATION WALL OF INNER LIGHTHOUSE.
ELEVATION = 75.822 m ASL
GEODETIC SURVEY OF CANADA BM, No. 561F.
3. ELEVATIONS ARE PROVIDED IN RELATION TO CHART DATUM (LEVEL 0.00) RELATIVE TO IGLD 1985 (ELEVATION 74.20), UNLESS OTHERWISE NOTED.

LEGEND :

SECTION NUMBER DRAWING LOCATION	DETAIL LETTER DRAWING LOCATION	ORIGINAL ELEVATION	FINAL ELEVATION	TREE	BRUSH	BOLLARD	HYDRO POLE	JUNCTION BOX	EMERGENCY LADDER	LIFE RING STATION	POST	POWER PEDESTAL	TIMBER FENDER
(S-001)	(S-001)	+ 175.25	+ 175.50				HP	JB	EL	LRS		PP	TF

FOR CLARITY HACHING MAY NOT BE ILLUSTRATED ON ALL PLANS AND SECTIONS TO INDICATE WORK

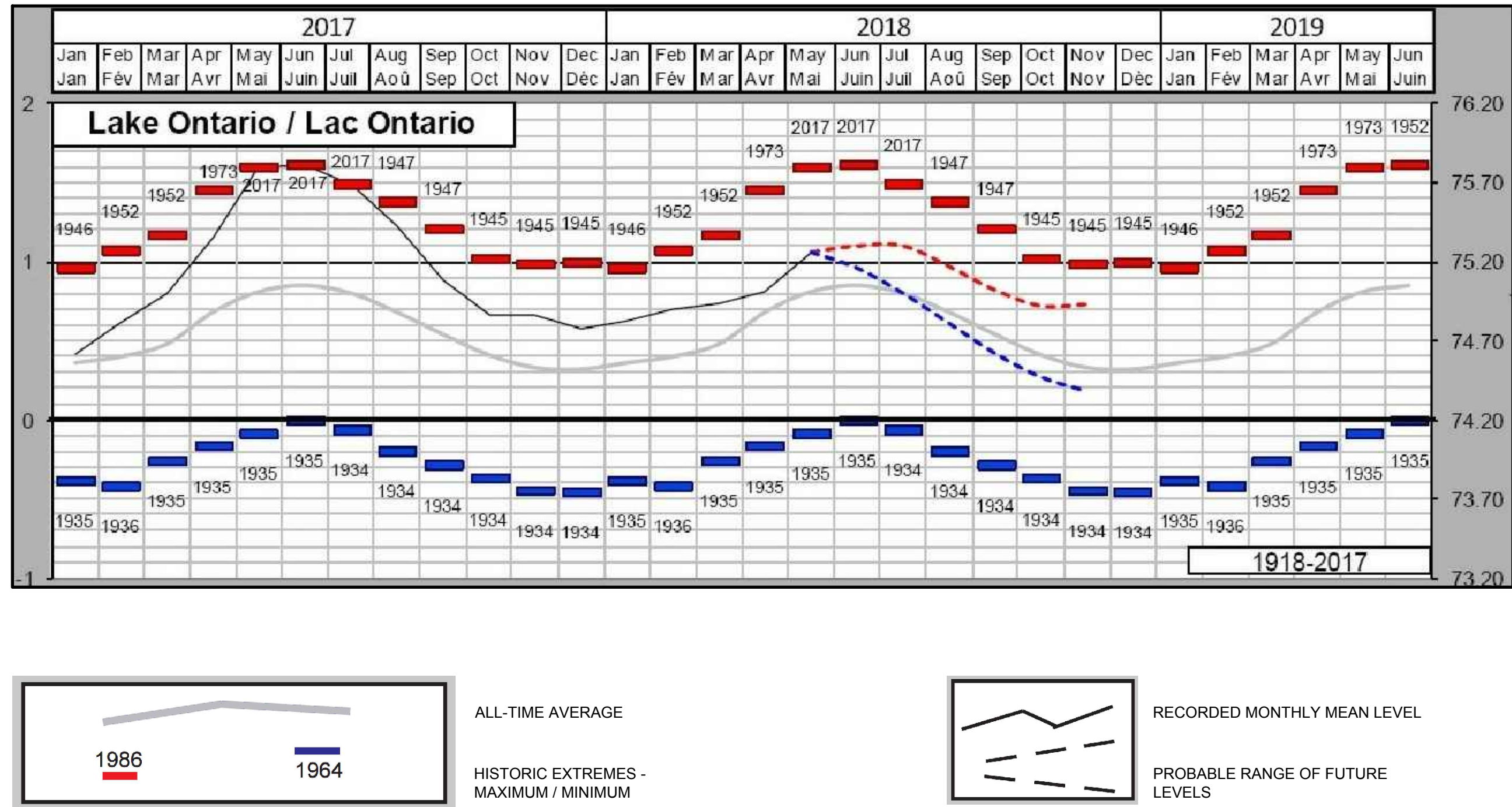
	ROCK PROTECTION
	CONCRETE REMOVAL
	FILL MATERIAL REMOVAL
	GRANULAR 'A'
	GRANULAR 'B'
	CLEAR STONE
	CONCRETE
	GARDENS
LS	LIGHT STANDARD
BELL, PED	BELL PEDESTAL
- x - x - x -	CHAINLINK FENCE
- o - o - o -	ORNAMENTAL FENCE
- - - -	WOOD FENCE
BH	BORE HOLE

ABBREVIATIONS :

BOT.	BOTTOM	m	METERS
CONC.	CONCRETE	MAX.	MAXIMUM
CL.	CENTRE LINE	MIN.	MINIMUM
C.J.	CONSTRUCTION JOINT	MISC.	MISCELLANEOUS
CONC.	CONCRETE	mm	MILLIMETERS
CONT.	CONTINUOUS	N.T.S.	NOT TO SCALE
DIAMETER	DIAMETER	PL.	PLATE
DWG.	DRAWING	R/W	RETAINING WALL
E.F.	EACH FACE	SQ.	SQUARE
EL.	ELEVATION	SSP	STEEL SHEET PILING
E.W.	EACH WAY	T/CONC.	TOP OF CONCRETE
EX.	EXISTING	TYP.	TYPICAL
GRAN.	GRANULAR	U.O.N.	UNLESS OTHERWISE NOTED
HWL	HIGH WATER LEVEL	U/S	UNDERSIDE
I.G.L.D.	INTERNATIONAL GREAT LAKES DATUM	W.L.	WATER LEVEL
LWL	LOW WATER LEVEL	W.P.	WORKING POINT
LS	LIGHT STANDARD		

WATER LEVEL CHART :

(WATER LEVELS TAKEN FROM www.waterlevels.gc.ca)



KEY MAP

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



revision	date
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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

NOTES AND LEGEND

drawn by
dessiné par

T.G.

designed by
conc par

J.P.

approved by
approuvé par

J.P.

bid
offre

project manager
administrateur
de projets

project date
date du projet

2018-07-20

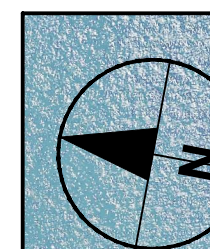
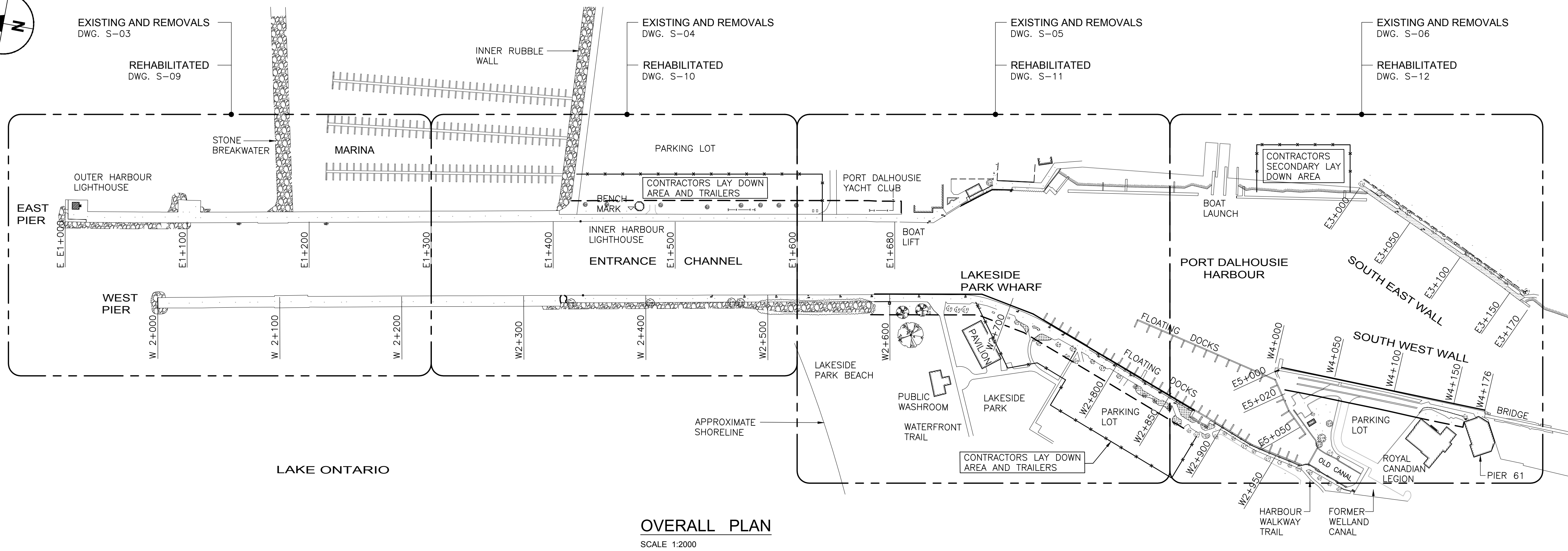
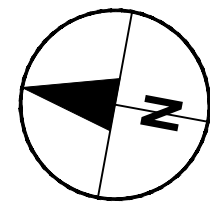
project no.
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drawing no.
dessiné no.

S-01

locator code
code de localisation

4768



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SMALL CRAFT HARBOURS CENTRAL AND ARCTIC REGION



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HARBOUR REHABILITATION PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

OVERALL PLAN AND LIST OF DRAWINGS

drawn by
dessiné par

T.G.

designed by
conçu par

J.P.

approved by
approuvé par

J.P.

bid
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2018-07-20

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dessiné no.

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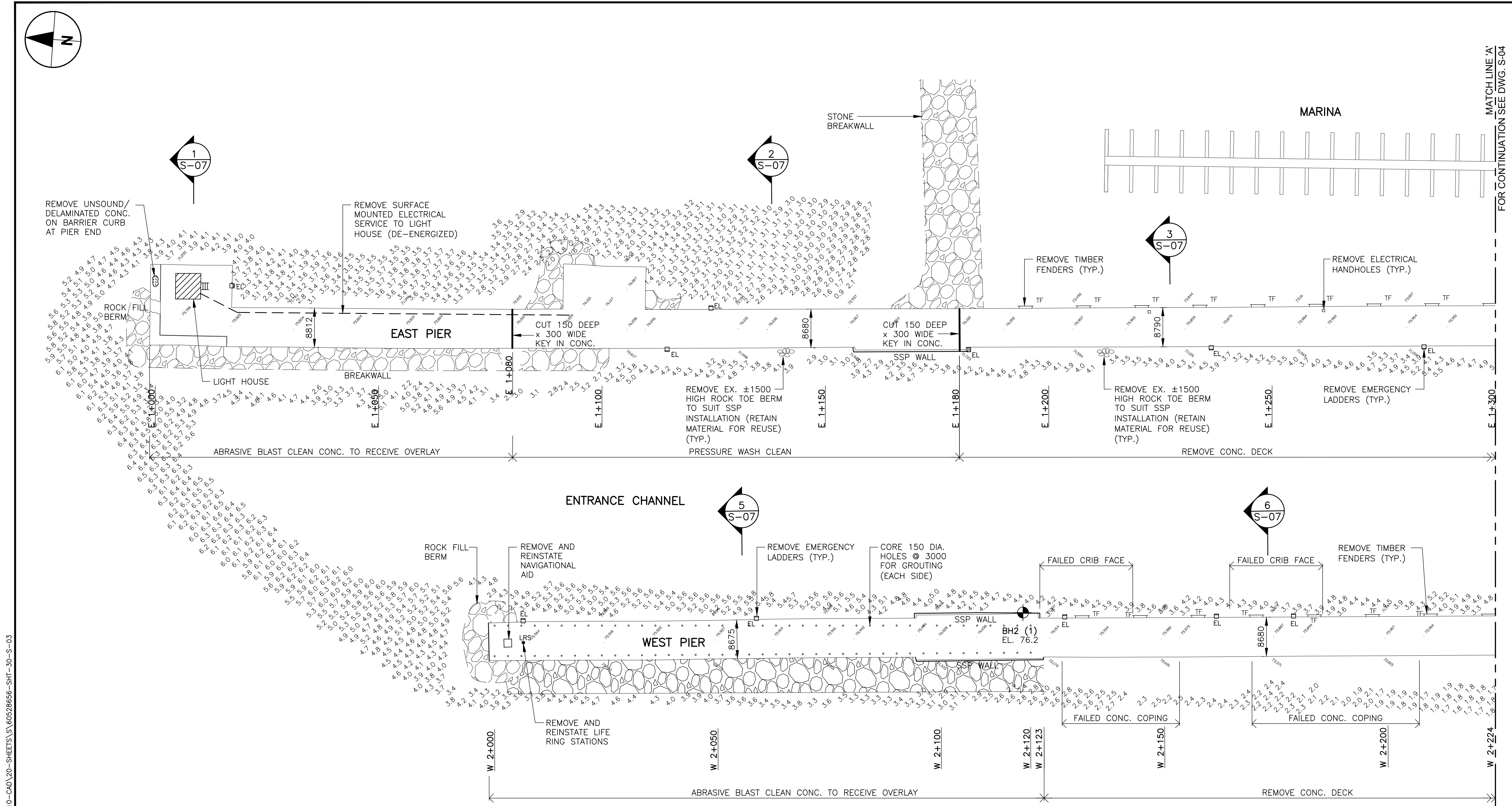
LIST OF DRAWINGS :

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S-21	ANCHOR WALL DETAILS
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S-23	TYPICAL DECK DETAILS
S-24	REMOVAL DETAILS

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PARTIAL PLAN - EXISTING AND REMOVALS

SCALE 1:500

REMOVALS - NOTES :

1. IDENTIFY ALL COMPONENTS TO REMAIN IN PLACE AND PROVIDE MEASURES TO ENSURE THAT THEY ARE NOT DAMAGED DURING REMOVAL OPERATIONS.
2. REMOVAL OF EXISTING ITEMS SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES.
3. CONTRACTOR TO CONFIRM EXISTING ELEVATIONS BY SURVEYING PRIOR TO REMOVALS. SUBMIT THE SURVEY TO THE DEPARTMENTAL REPRESENTATIVE.
4. REVIEW ALL ITEMS IDENTIFIED TO BE SALVAGED AND REPORT IF ANY ARE NOT SALVAGEABLE TO THE CONTRACT ADMINISTOR PRIOR TO COMMENCEMENT OF REMOVALS. ONCE REMOVAL OPERATION IS STARTED, ALL SALVAGED ITEMS THAT BECOME DAMAGED ARE TO BE REPLACED BY THE CONTRACTOR AT NO EXTRA EXPENSE TO THE OWNER.
5. ASSESSMENT AND CONSIDERATION RELATED TO THE COMPETENCY OF EXISTING STRUCTURAL COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR. MEANS/METHODOLOGIES FOR REMOVALS AND ACCESS TO CARRY OUT THE WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR ADDITIONAL REMOVAL DETAILS SEE DRAWING S-24.
7. RETAIN AND STOCK PILE EXISTING TOPSOIL FOR REUSE IN THE PARK (AT PREAPPROVED LOCATIONS AND PLACE SILT FENCE AROUND PERIMETER).

BOREHOLE NOTES :

1. TOP OF BOREHOLE ELEVATIONS PROVIDED AND BOREHOLE NUMBERS ARE REFERENCED TO THE FOLLOWING REPORTS :
 - A. GEOTECHNICAL INVESTIGATION PORT DALHOUSIE PIER JANUARY 2015.
 - B. GEOTECHNICAL INVESTIGATION PORT DALHOUSIE PIER JUNE 2016.
 - C. GEOTECHNICAL INVESTIGATION AND LIMITED CHEMICAL TESTING PROGRAM PORT DALHOUSIE HARBOUR WALL JANUARY 2017.

REMOVALS - TREE NOTES :

1. RETAIN TREES UNLESS INDICATED FOR REMOVAL ON CONTRACT DRAWINGS.
2. WHEN TREES ARE LOCATED WITHIN AN AREA OF WORK, PROTECT THE TREE AND ROOT SYSTEM IN PLACE WHERE POSSIBLE. IF TREES ARE AN OBSTRUCTION TO THE WORK, REMOVE THE TREE AND ROOTBALL, AND RETAIN FOR REINSTALLATION AT A LATER TIME.
3. TREES THAT ARE TALLER THAN 10m NEED NOT BE RETAINED IF CONSIDERED AN OBSTRUCTION TO WORK. OBTAIN THE APPROVAL TO PERMANENTLY REMOVE TREES BY THE DEPARTMENTAL REPRESENTATIVE.

REMOVALS - BOLLARD NOTES :

1. REVIEW EACH MARINE/MOURING BOLLARD WITH THE DEPARMENTAL REPRESENTATIVE TO DETERMINE IF IT MAY BE RETAIN IN PLACE OR REMOVED/REINSTATED.

REMOVALS - CONCRETE DECK NOTES :

1. TEN CONCRETE CORES HAVE BEEN EXTRACTED FROM VARIOUS LOCATIONS ALONG THE EAST AND WEST PIERS. THE EXISTING DEPTH OF CONCRETE AND ASSOCIATED COMPRESSIVE STRENGTHS ARE PROVIDED FOR REFERENCE (PETO MACCALLUM LTD. REPORT, CONCRETE CORING OF EXISTING PIER DECKS, JULY 2018)..

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



- LEGEND :
- ORIGINAL ELEVATIONS
 - SOUNDINGS (BELOW CHART DATUM)
 - BOREHOLE LOCATION (SEE BOREHOLE NOTES)

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**HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO**

drawing title
titre du dessin
**PARTIAL PLAN
EXISTING AND REMOVALS - 1**

drawn by
dessiné par
B.J.B./T.G.

designed by
conc par
S.N./J.P.

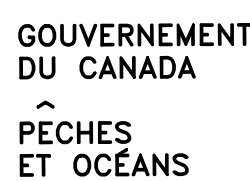
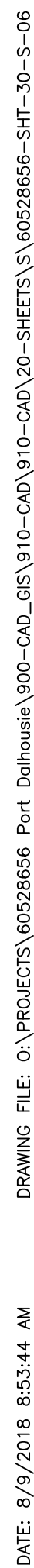
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approuvé par
J.W./J.P.

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project date
date du projet
2018-07-20

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drawing no.
dessiné no.
S-03
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code de localisation
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1. FOR REMOVALS, BOREHOLES, TREES AND BOLLARD NOTES SEE DRAWING S-03.
2. REMOVE CONCRETE DECK, COPING AND FILL MATERIALS TO A DEPTH TO SUIT NEW CONSTRUCTION. REMOVE LOOSE CONCRETE ON SIDES OF DETERIORATING COPING BLOCKS.

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HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

PARTIAL PLAN
EXISTING AND REMOVALS - 4

B.J.B./T.G.

S.N./J.P

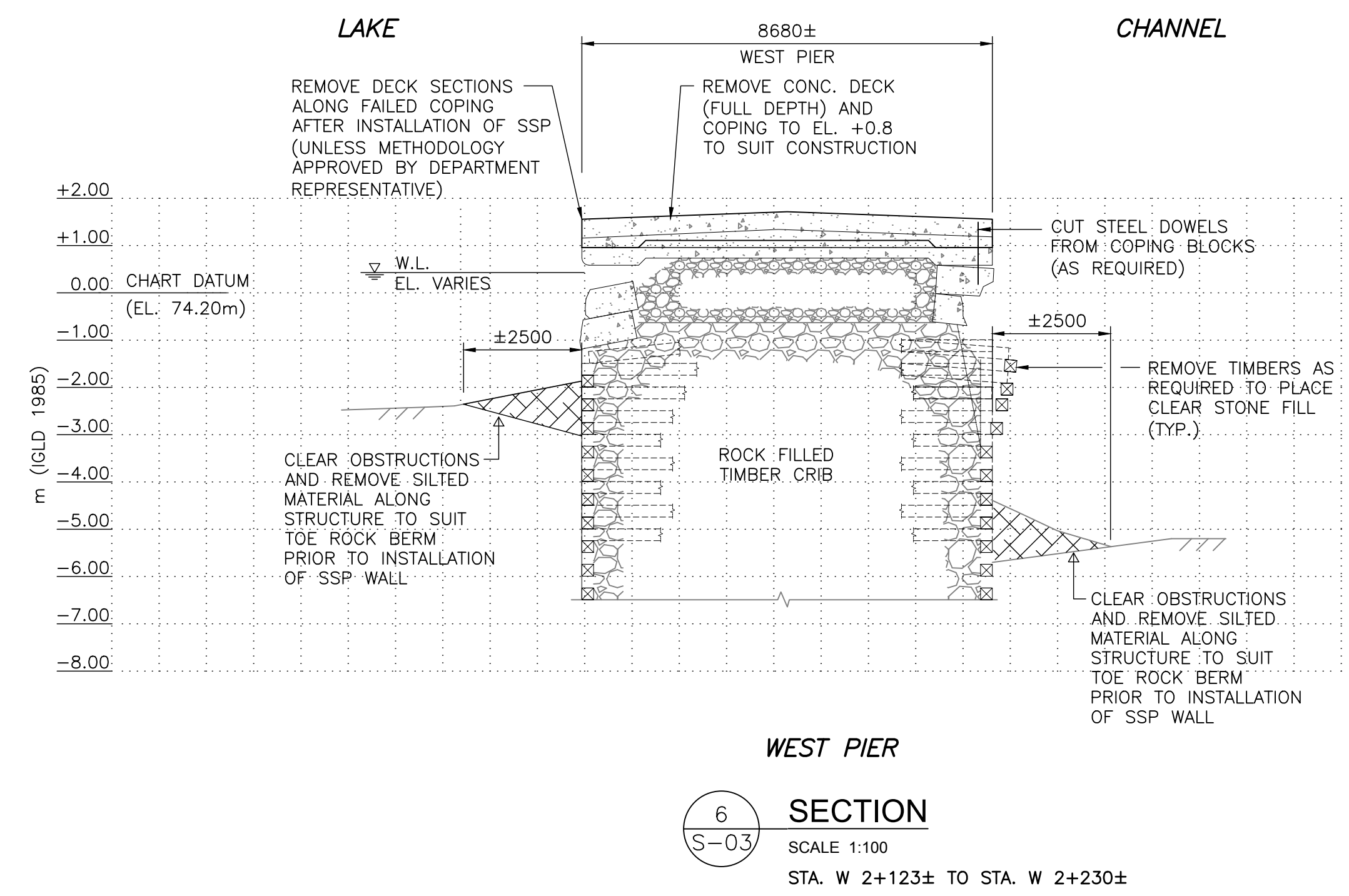
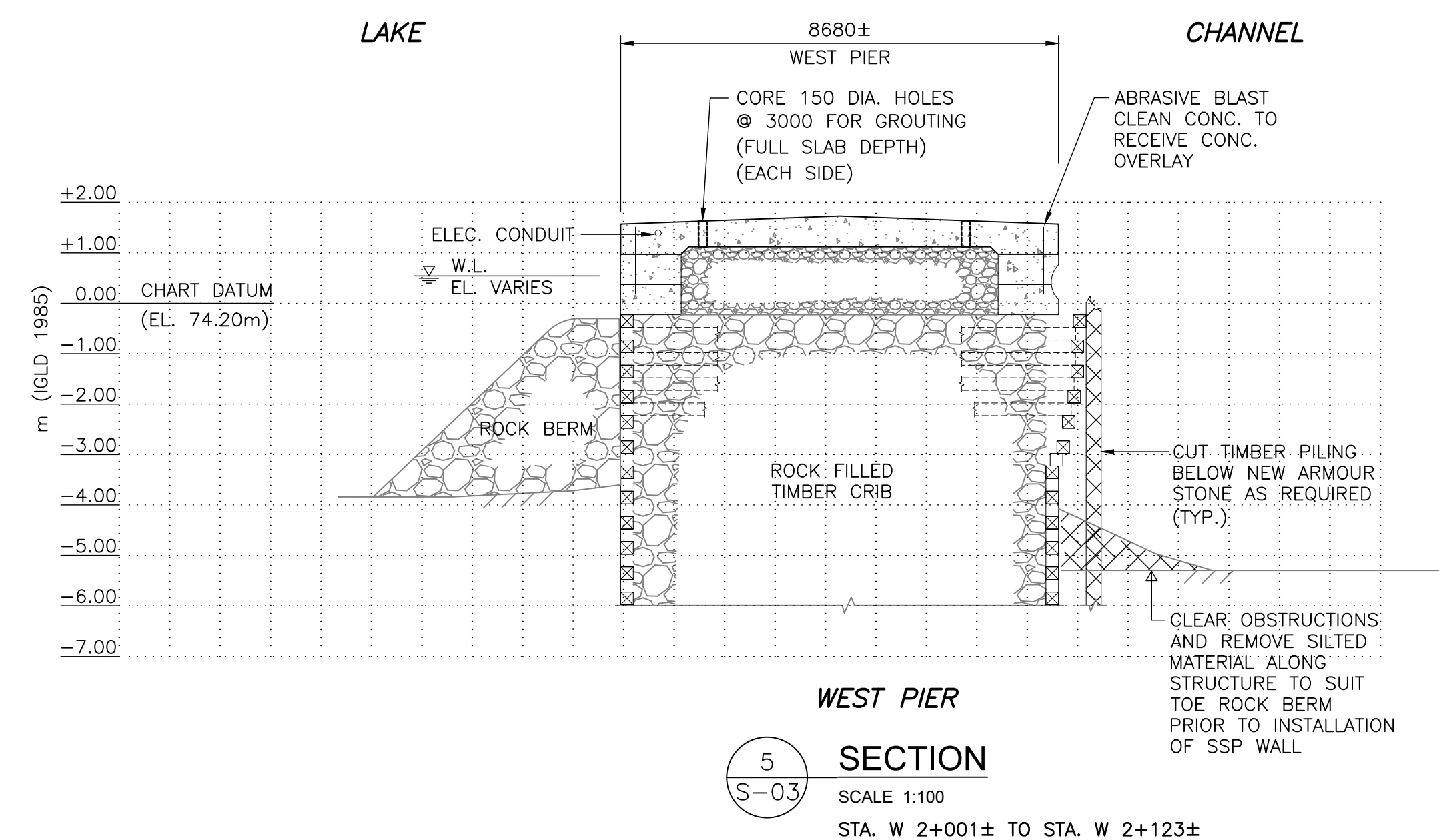
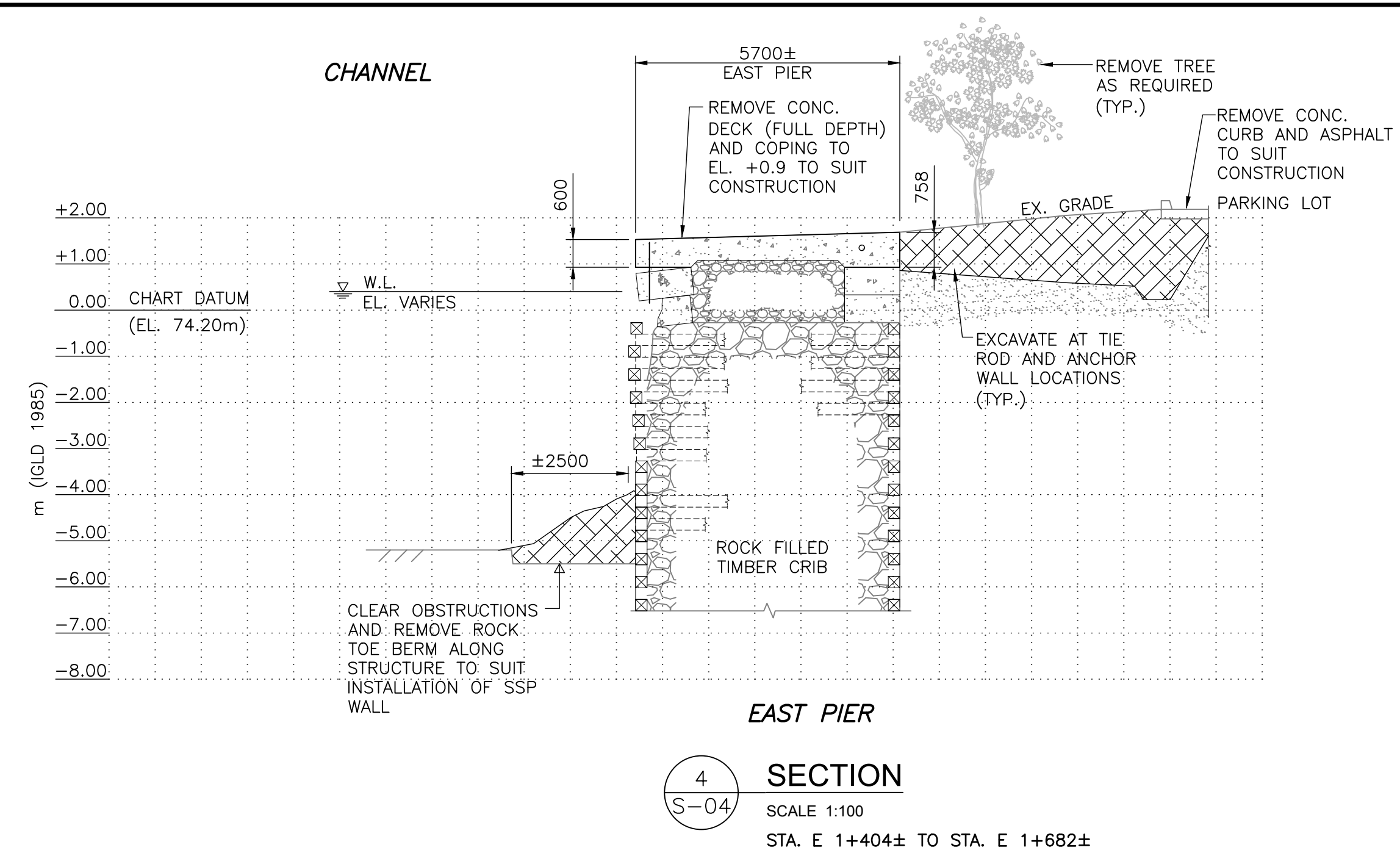
J.W./J.P

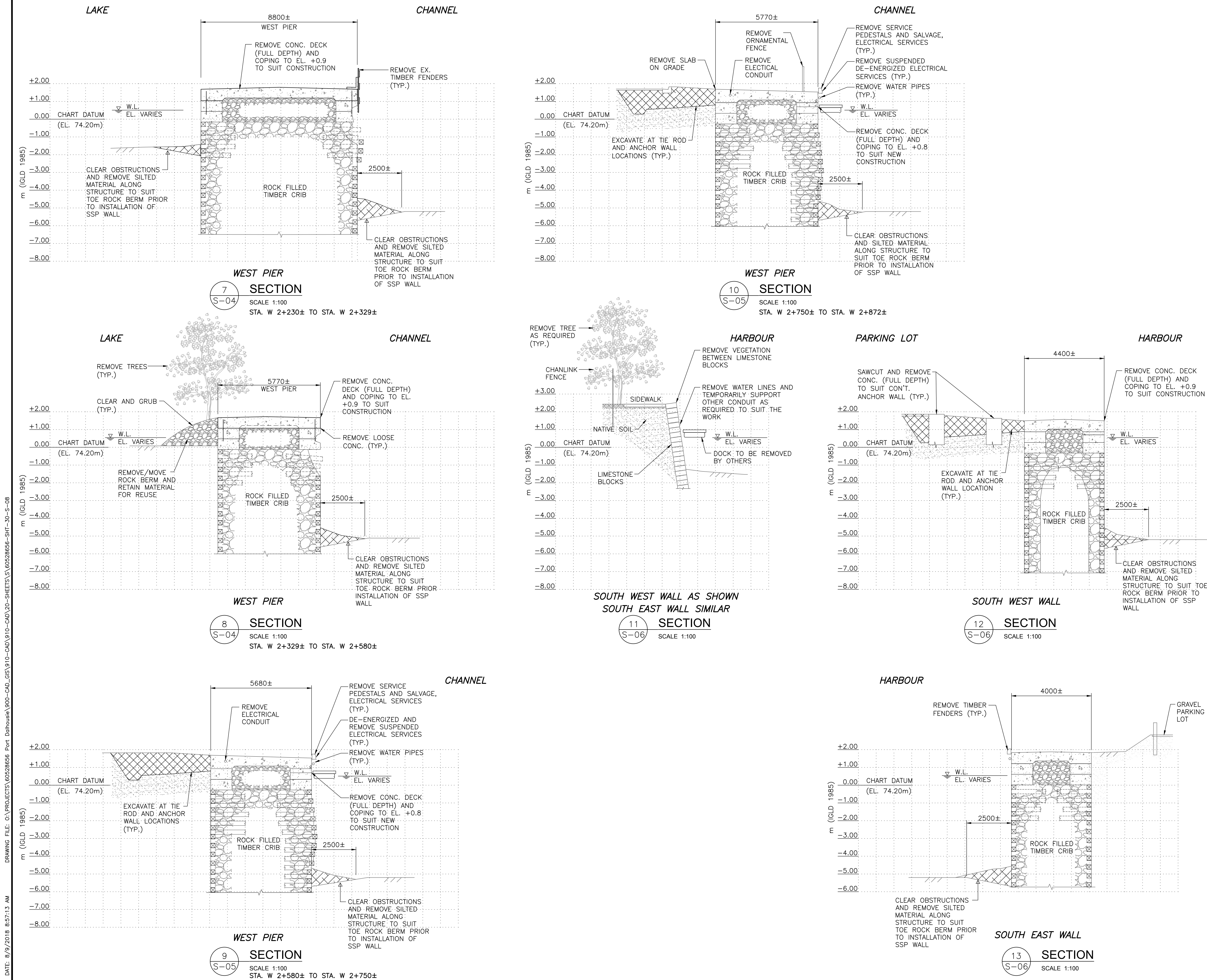
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SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



NOTES:

- FOR REMOVALS, BOREHOLES, TREES AND BOLLARD NOTES SEE DRAWING S-03.
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HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

SECTIONS
EXISTING AND REMOVALS - 2

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
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project date
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2018-07-20

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dessiné no.
S-08
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code de localisation
4768



1. EXISTING LIFE RING STATIONS AND BOLLARDS SHALL BE ABRASIVE BLAST CLEAN TO BARE WHITE METAL (SSPC-SP5) AND PAINTED WITH TWO COATS OR PRIMER AND 2 FINISHED COATS AS SPECIFIED.
2. PRIOR TO INSTALLATION, REVIEW THE LOCATIONS TO REINSTALL REMOVED COMPONENTS (BOLLARDS, LRS, ETC.) WITH THE DEPARTMENTAL REPRESENTATIVE.

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HARBOUR REHABILITATION

PORT DALHOUSIE, ONTARIO

PARTIAL PLAN
REHABILITATED - 1

drawing no. dessine no.	locator code code de localisation
S-09	4768



Technical drawing of a stepped profile. The profile consists of a horizontal top section, a vertical section, and a horizontal bottom section. The top horizontal section has a length of 635. The vertical section has a height of 355. The bottom horizontal section is shown with a break symbol (two wavy lines) in the middle, indicating it is not to scale. The profile is drawn with a double-line border.

Technical drawing of a roof profile. The drawing shows a cross-section of a roof with a central horizontal section and sloped sides. The total width of the roof is dimensioned as 635. The height of the roof from the base to the peak is dimensioned as 273. The roof is shown with a double-line profile, indicating a thickness or a specific construction detail.

STEEL SHEET PILE TYPE 2 (EZ 80)

STEEL SHEET PILE (SSP) SCHEDULE				
TYPE	SECTION MODULUS (cm ³ / LIN. m)	LENGTH OF SHEETS (m)	WIDTH OF SHEETS (m)	THICKNESS (mm)
SSP 1 (XZ 95)	1800	13.7	635	9.5
SSP 2 (EZ 80)	1100	9.1	635	8.0

DRAWING FILE: O:\PROJECTS\60528656 Port Dalhousie\900-CAD_GIS\910-CAD\910-CAD\20-SHEETS\S\60528656-SHT-30-S-09

DATE: 8/9/2018 10:16:03 AM

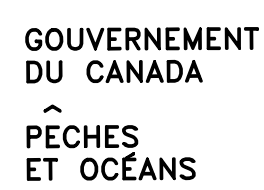


WEST
PIER



WEST
PIER

SCALE 1:500



1. FOR REINSTATEMENT OF EXISTING COMPONENTS
SEE NOTES SEE DRAWING S-09.
2. CONSTRUCT CONCRETE BARRIER CURB TO
OPSD 600.110 AROUND PERIMETER OF
PARKING LOTS, EAST AND WEST PIERS.

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

Do not scale drawings.
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PROJECT No.: 60528656

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project title	
titre du proje	

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

PARTIAL PLAN
REHABILITATED - 2

drawn by
dessine par

designed by
conc par

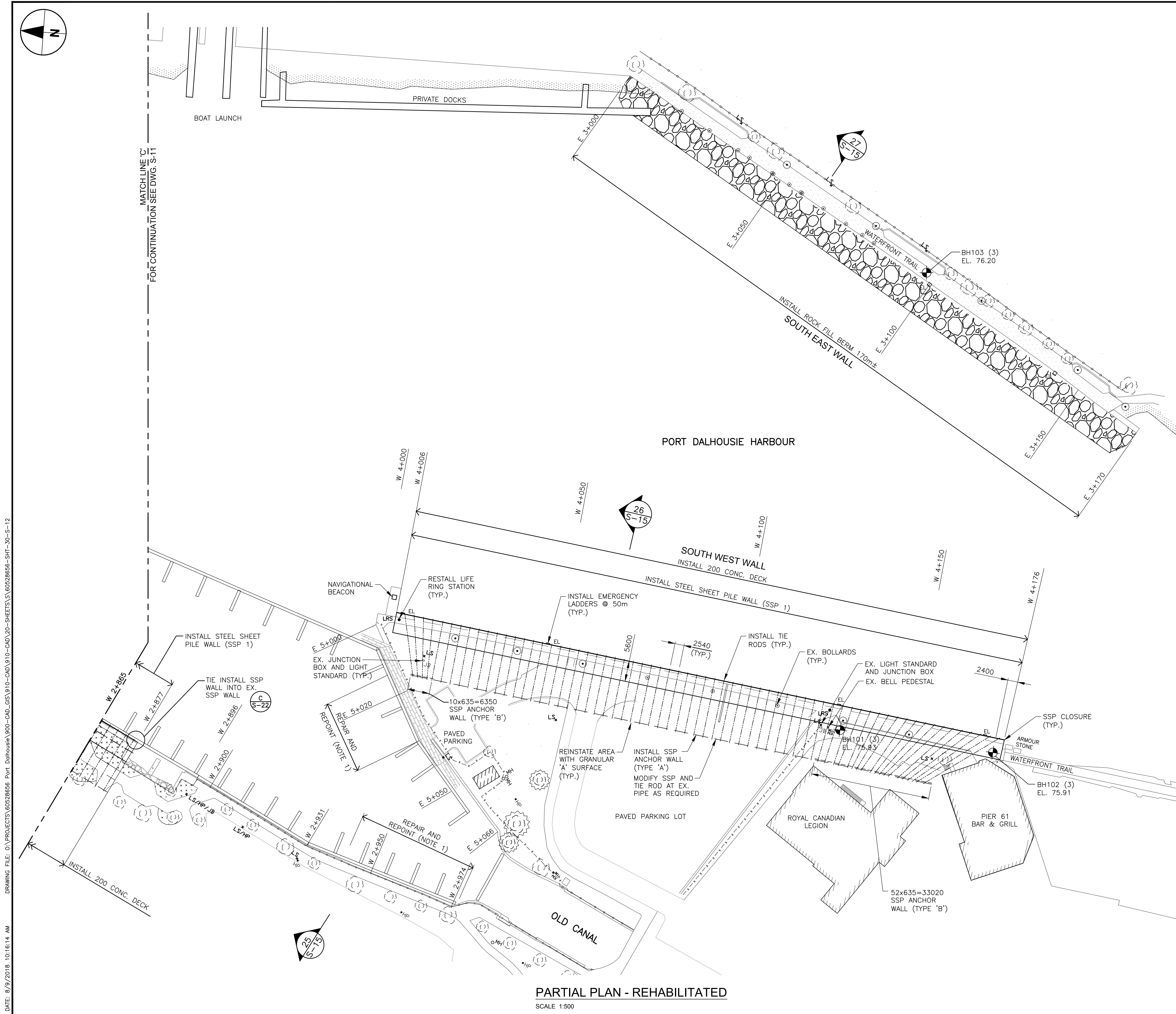
approved by
approuvé par

bid	project manager
offre	administrateur de projet

project date date du projet	2018-07-20
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project no. no. du projet	
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drawing no. dessine no.	locator code code de localisation
S-10	4768



DRAWING FILE: O:\PROJECTS\60528656 Port Dalhousie\900-CAD-GIS\910-CAD\20-SHEETS\60528656-SHT-30-S-12
DATE: 8/9/2018 10:16:14 AM

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



NOTE:
1. FOR LIMESTONE BLOCK WALL REPAIRS DETAILS, SEE DRAWING S-15.
2. THIS DRAWING TO READ IN CONJUNCTION WITH NOTES ON DRAWINGS S-09 AND S-11.

revision	date

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin
**PARTIAL PLAN
REHABILITATED - 4**

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

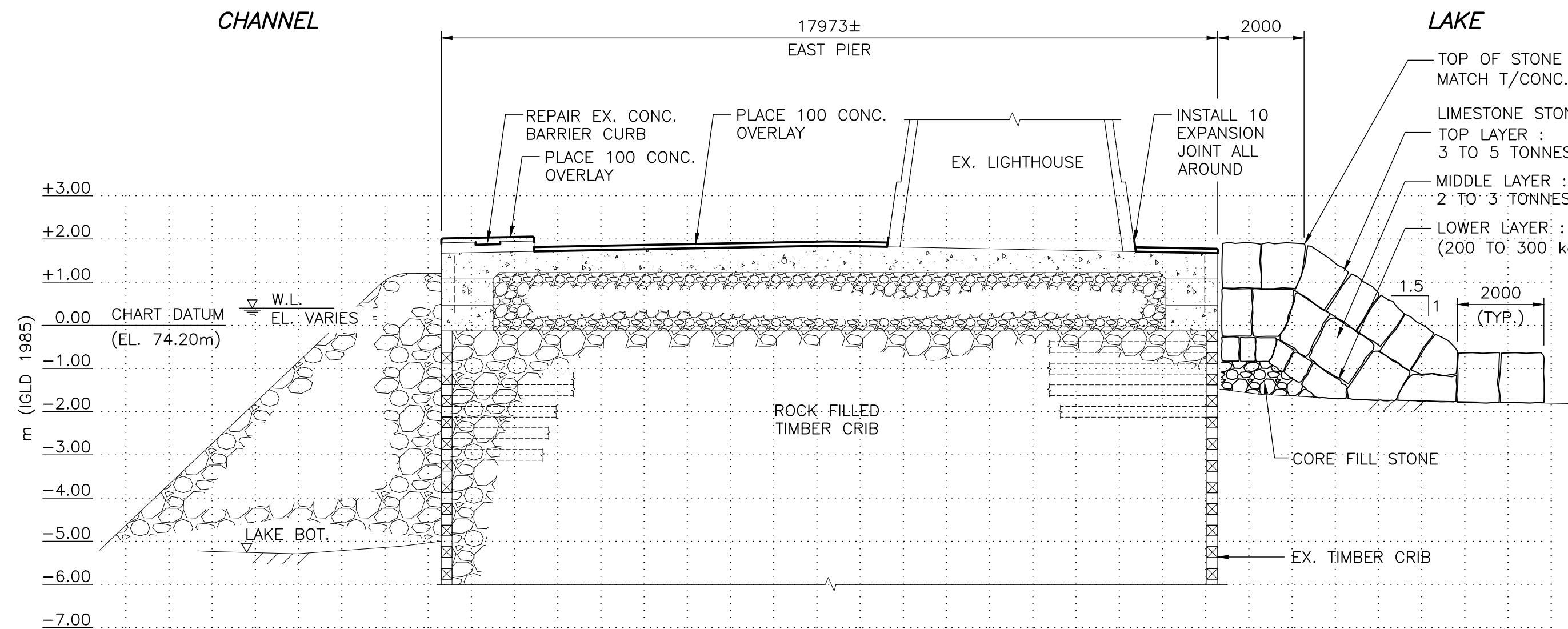
bid
offre
project manager
administrateur
de projets

project date
date du projet
2018-07-20

project no.
no. du projet

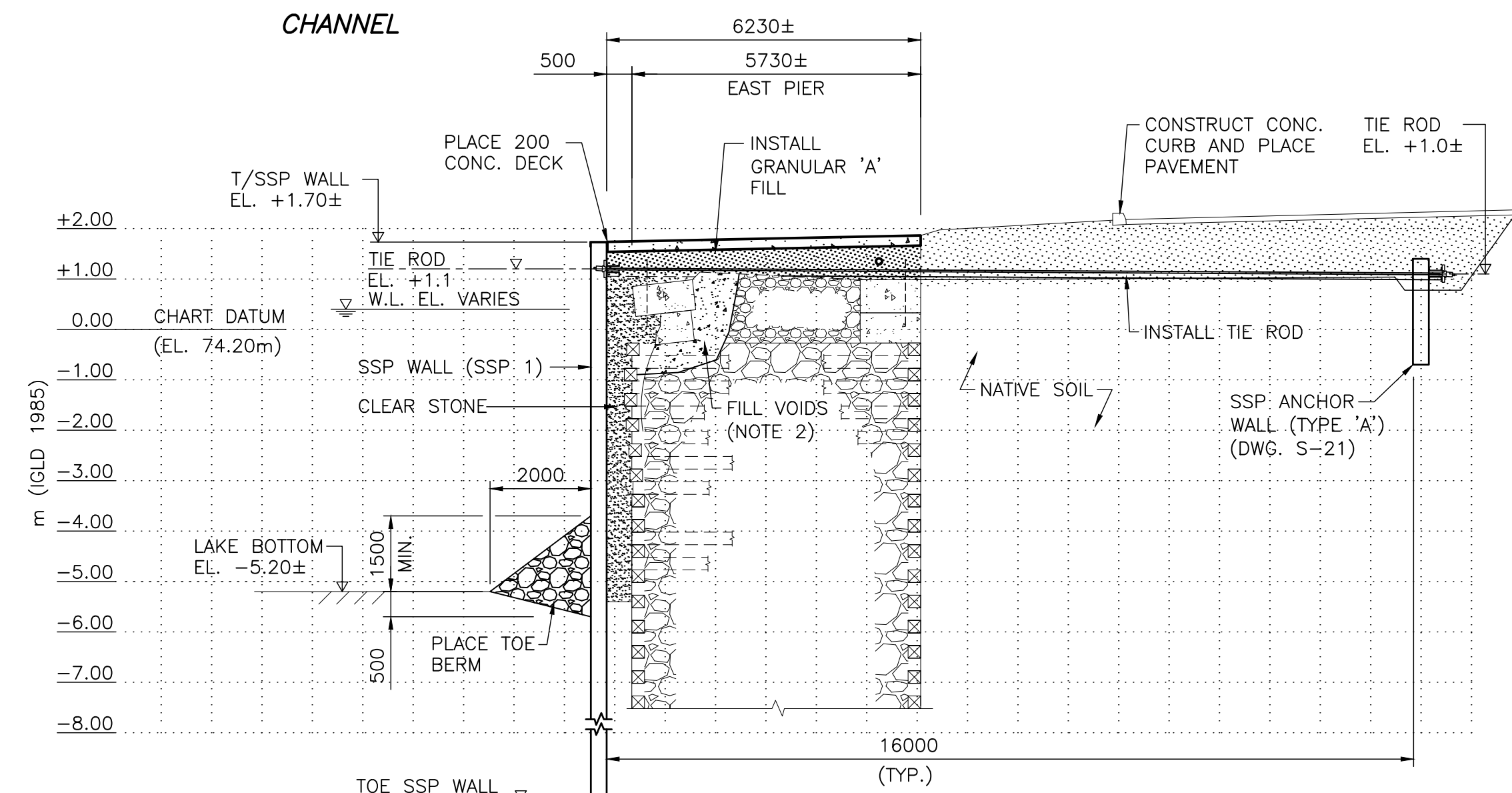
drawing no.
dessiné no.
S-12
locator code
code de localisation
4768

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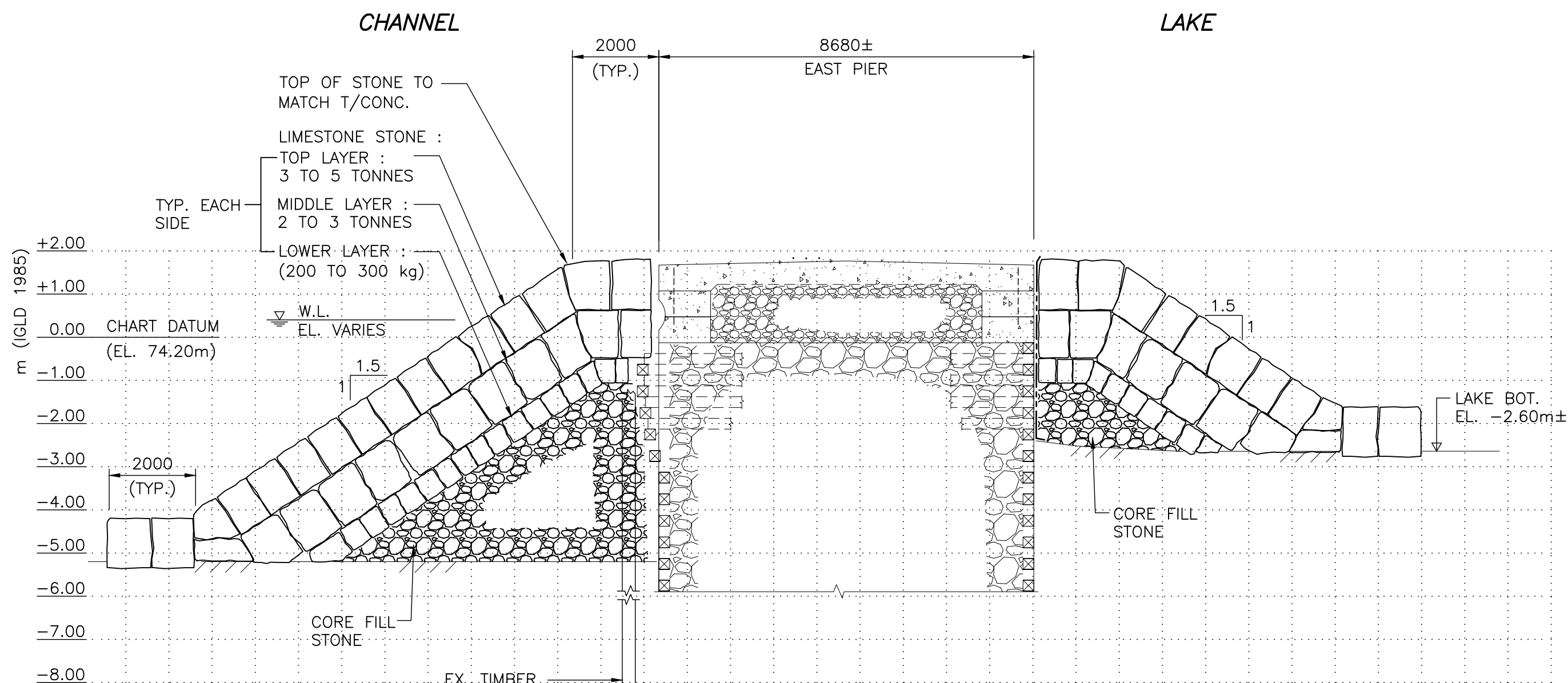
EAST PIER

15 SECTION
S-09
SCALE 1:100



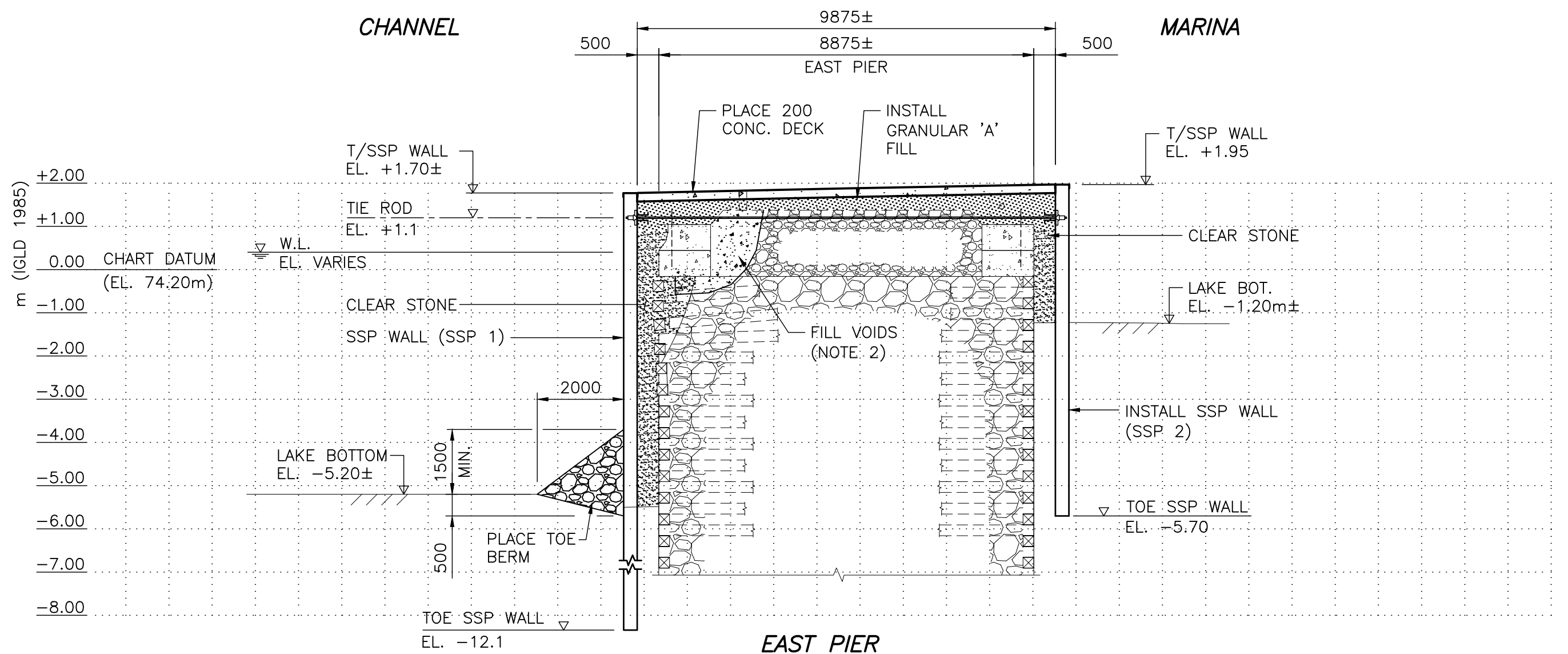
EAST PIER

18 SECTION
S-10
SCALE 1:100
STA. E 1+405± TO STA. E 1+682±



EAST PIER

16 SECTION
S-09
SCALE 1:100
STA. E 1+080± TO STA. E 1+180±



EAST PIER

17 SECTION
S-09
SCALE 1:100
STA. E 1+180± TO STA. E 1+405±

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



NOTES :

1. VERTICAL LOCATION OF WALES MAY BE ADJUSTED TO SUIT EXISTING CONDITIONS (UP TO ± 0.1m) WITH THE ACCEPTANCE OF THE CONTRACT ADMINISTRATOR.
2. FILL VOIDS WITHIN EXISTING STRUCTURE WITH FLOWABLE GROUT, CLEAR STONE OR GRANULAR 'A' , AS AGREED UPON WITH DEPARTMENTAL REPRESENTATIVE. DEFER WORK TO COMPLETION OF STEEL PILE WORK, AS REQUIRED, TO ENSURE CONTAINMENT OF FILL.

revision		date

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

SECTIONS
REHABILITATED - 1

drawn by
dessiné par B.J.B./T.G.

designed by
conçu par S.N./J.P.

approved by
approuvé par J.W./J.P.

bid
offre

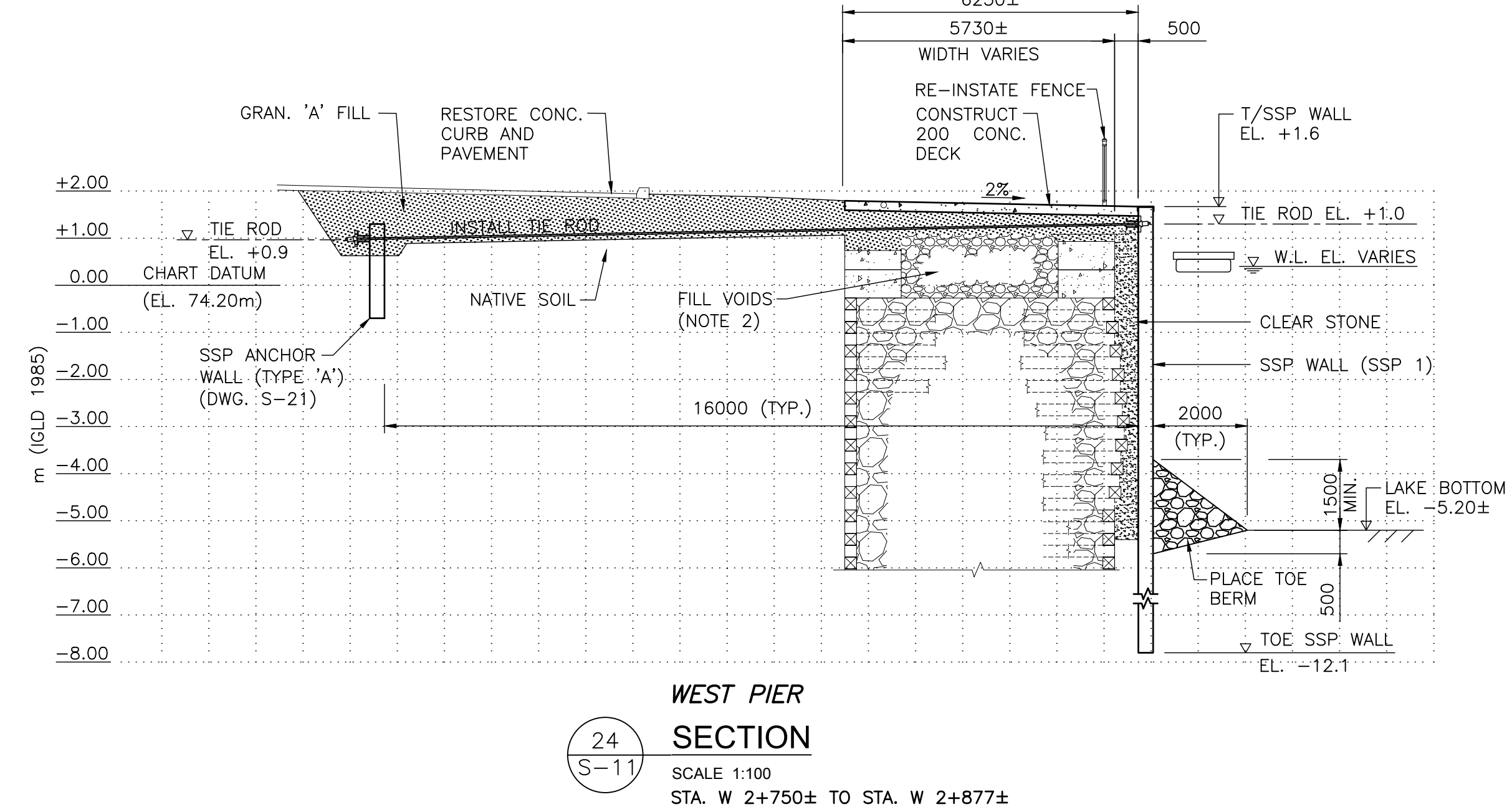
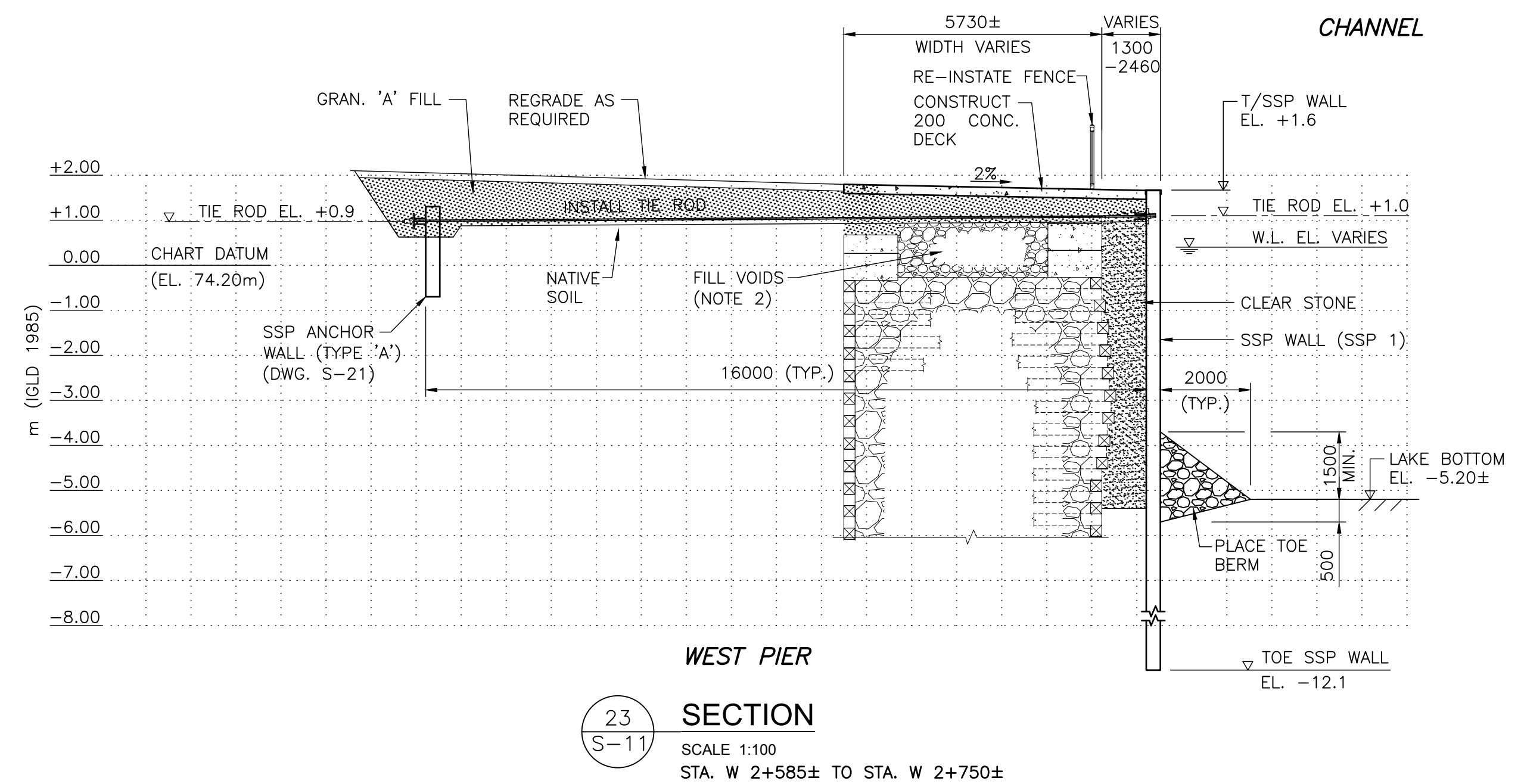
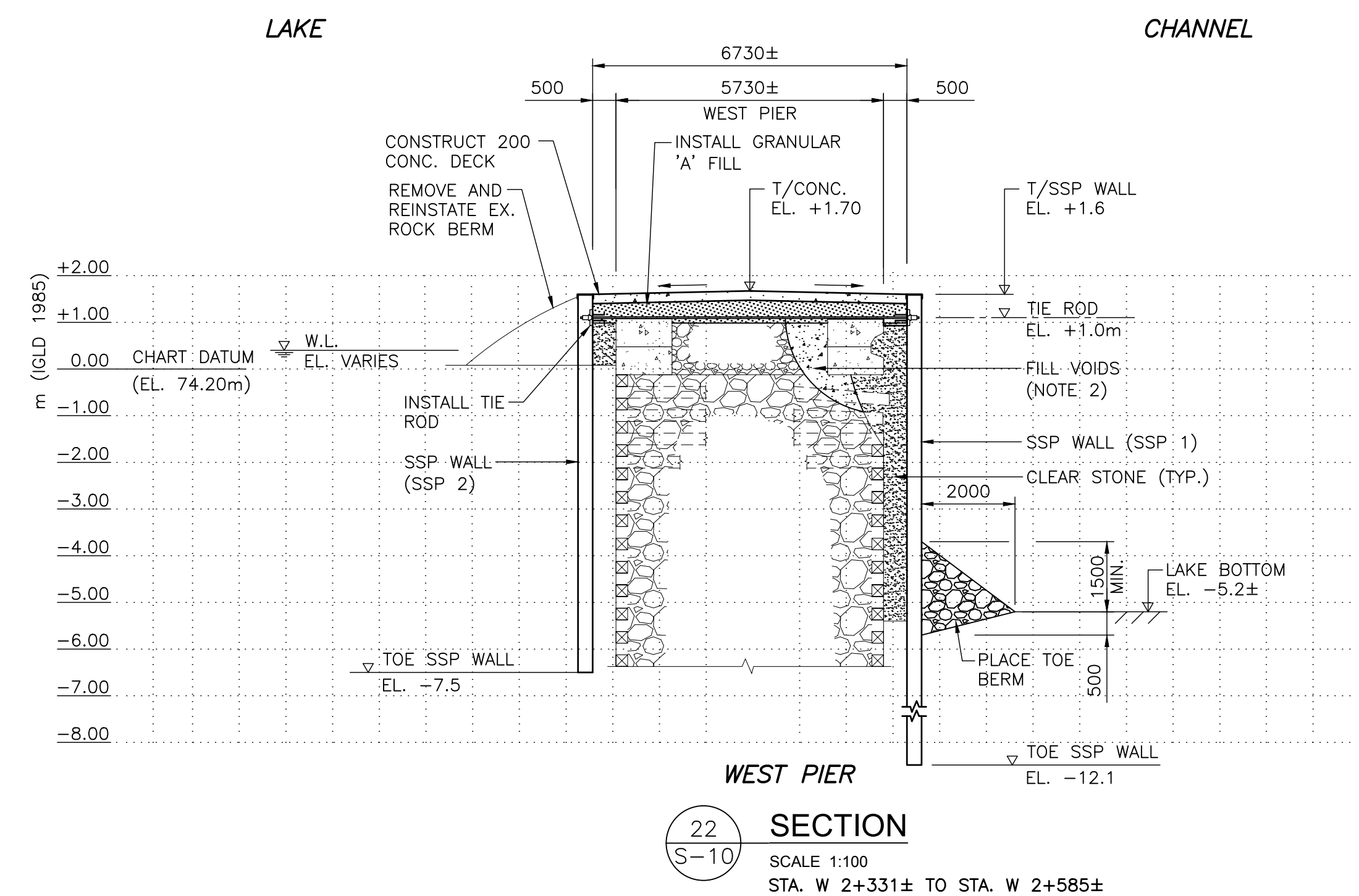
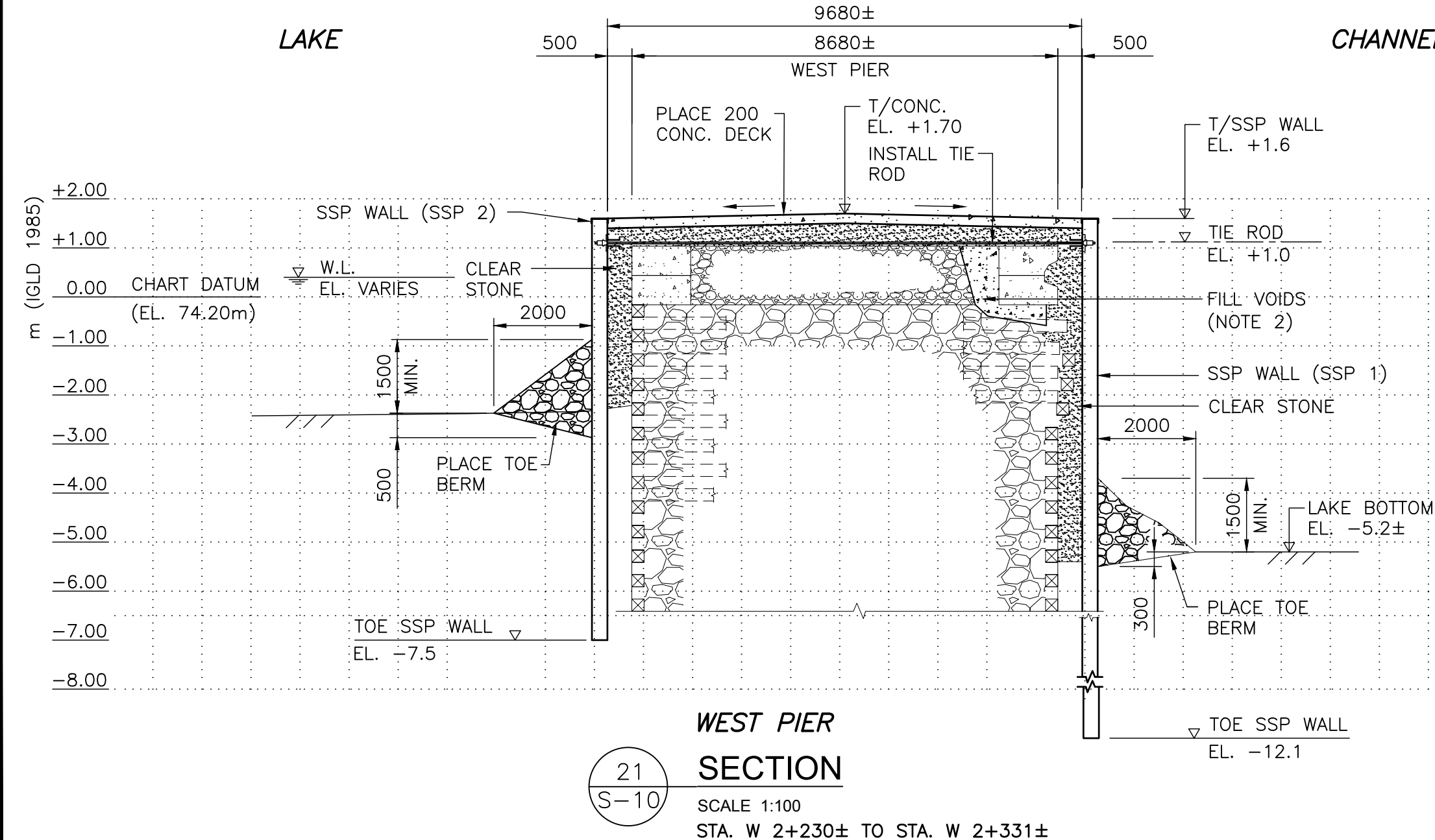
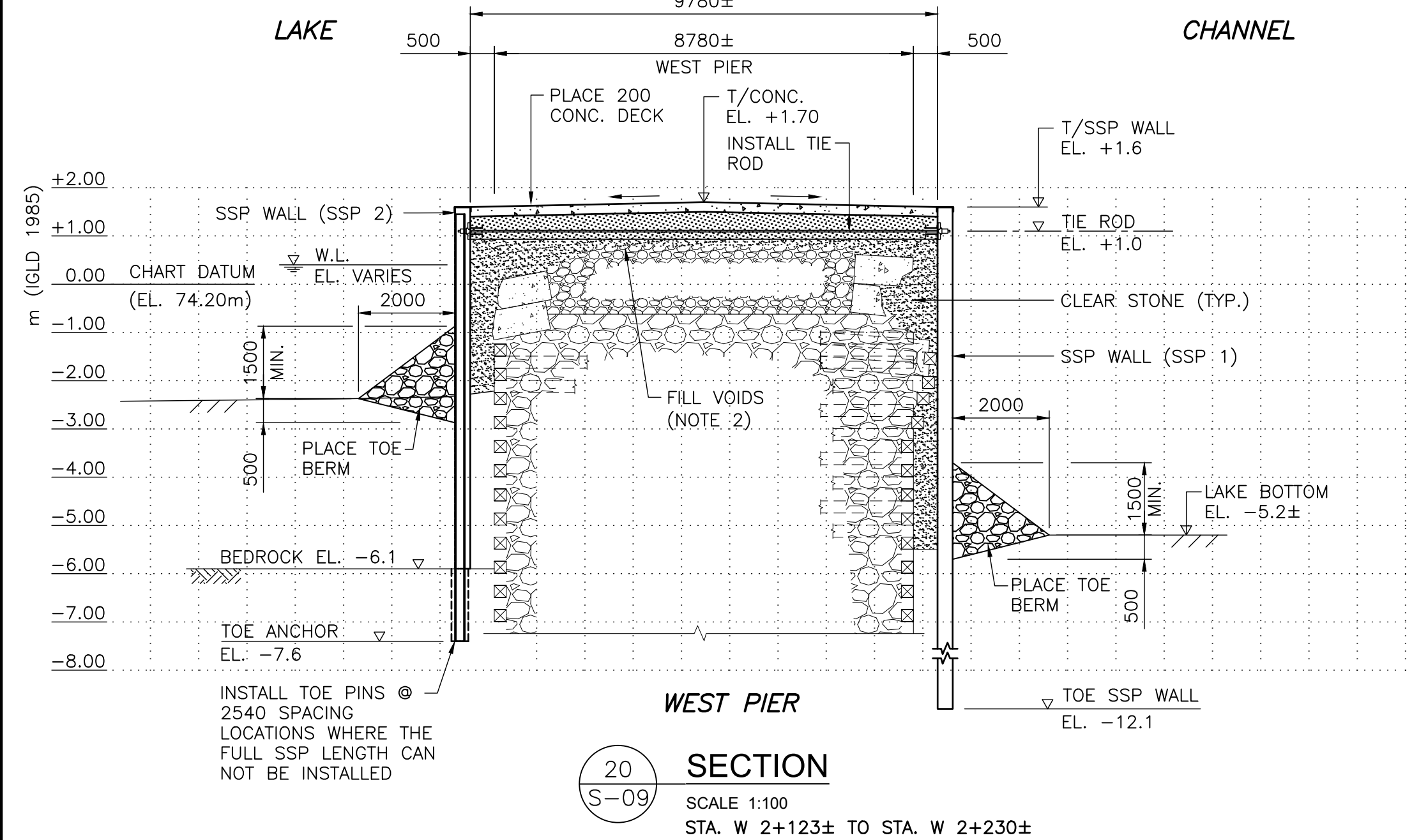
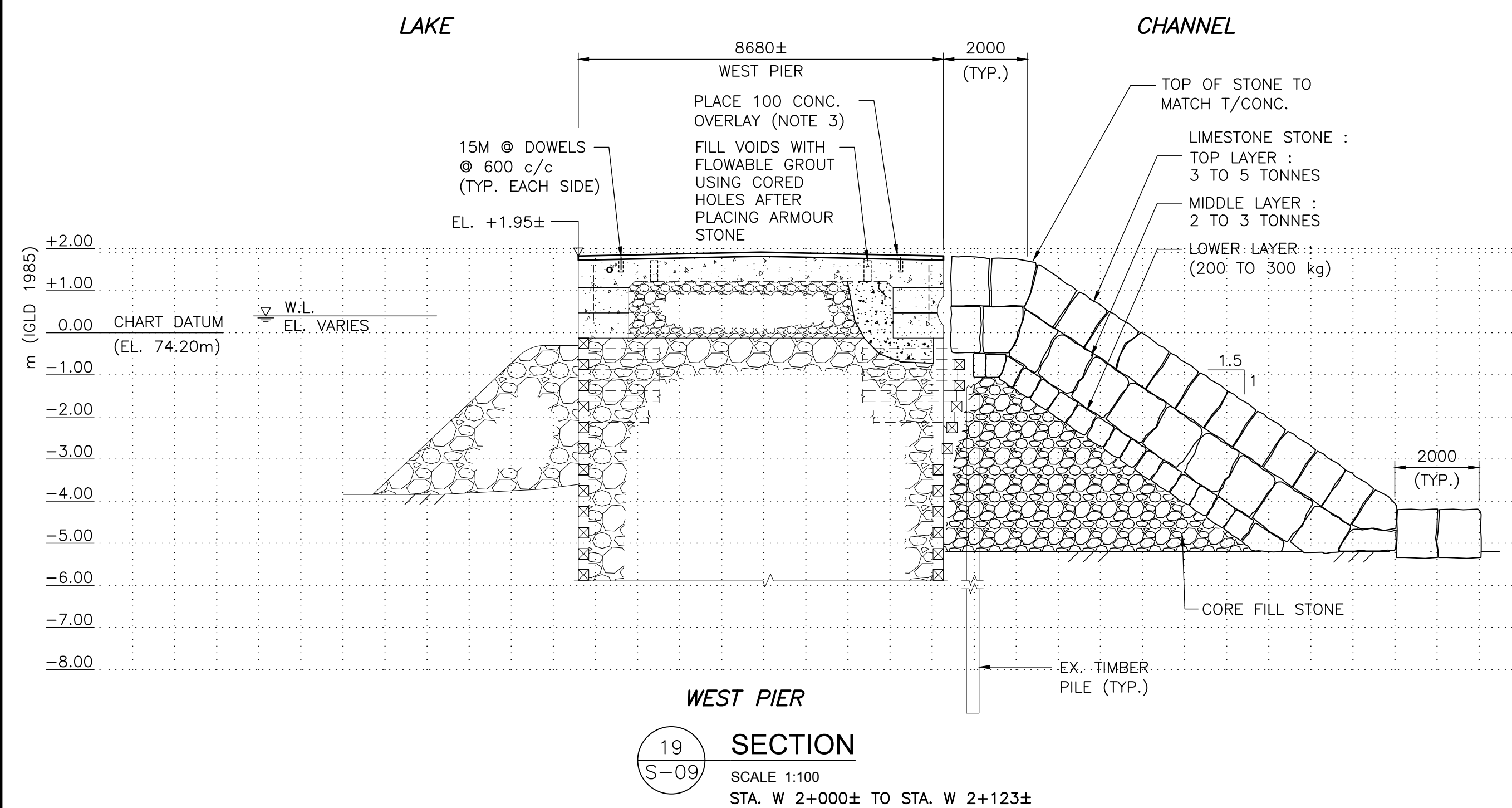
project manager
administrateur
de projets

project date
date du projet 2018-07-20

project no.
no. du projet

drawing no.
dessiné no. S-13

locator code
code de localisation 4768



GOVERNMENT
OF CANADA

FISHERIES
AND OCEANS

GOVERNEMENT
DU CANADA
^
PÊCHES
ET OCÉANS

SMALL CRAFT HARBOURS CENTRAL AND ARCTIC REGION



NOTE :

1. VERTICAL LOCATION OF WALES MAY BE ADJUSTED TO SUIT EXISTING CONDITIONS (UP TO $\pm 0.1\text{m}$) WITH THE ACCEPTANCE OF THE DEPARTMENTAL REPRESENTATIVE.
2. FILL VOIDS WITHIN EXISTING STRUCTURE WITH FLOWABLE GROUT, CLEAR STONE OR GRANULAR 'A', AS AGREED UPON WITH DEPARTMENTAL REPRESENTATIVE. DEFER WORK TO COMPLETION OF STEEL PILE WORK, AS REQUIRED, TO ENSURE CONTAINMENT OF FILL.
3. CONSTRUCT CONCRETE OVERLAY FOLLOWING PLACEMENT OF ARMOUR STONE.
4. INSTALL TOE PINS PRIOR TO THE INSTALLATION OF CLEAR STONE FILL. TOE PINS ANTICIPATED BETWEEN W2+123 AND W2+160.

revision		date

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project title	
titre du projet	

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

SECTIONS
REHABILITATED - 2

drawn by
dessine par

designed by
conc par

approved by
approuvé par

bid	project manager
offre	administrateur de projets

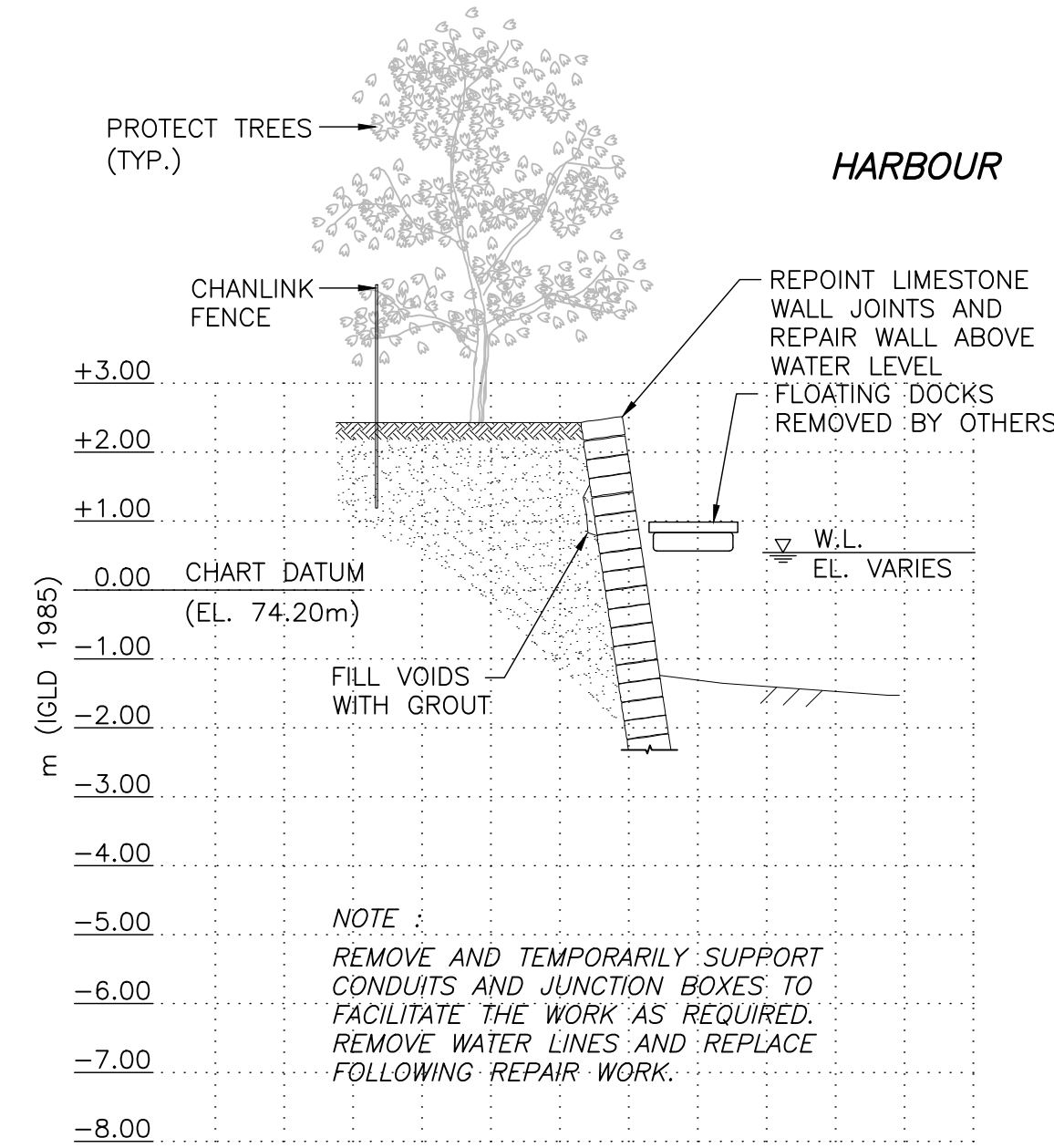
project date date du projet	2018-07-20
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project no. no. du projet	
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S-14	locator code code de localisation 4768
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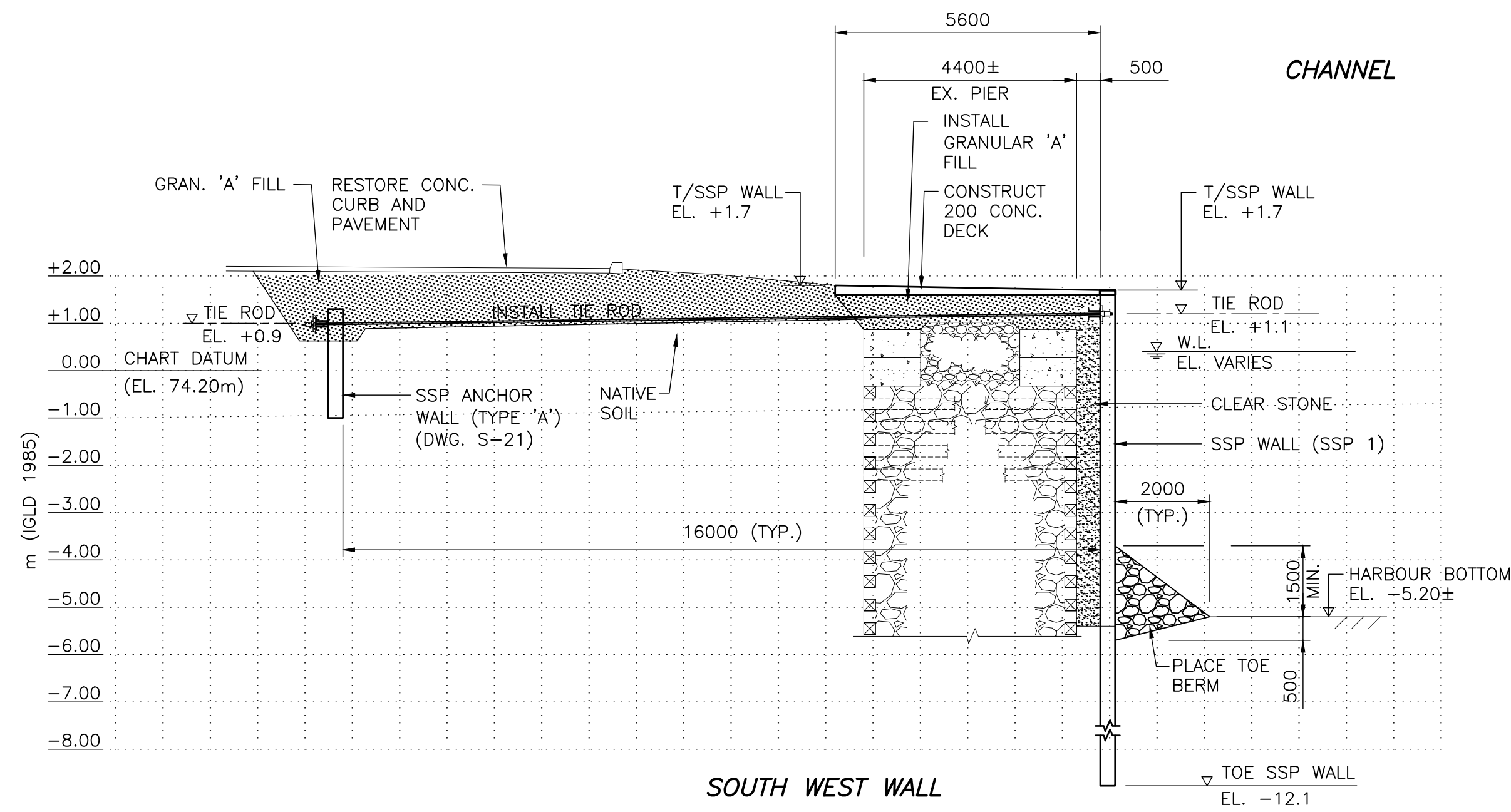
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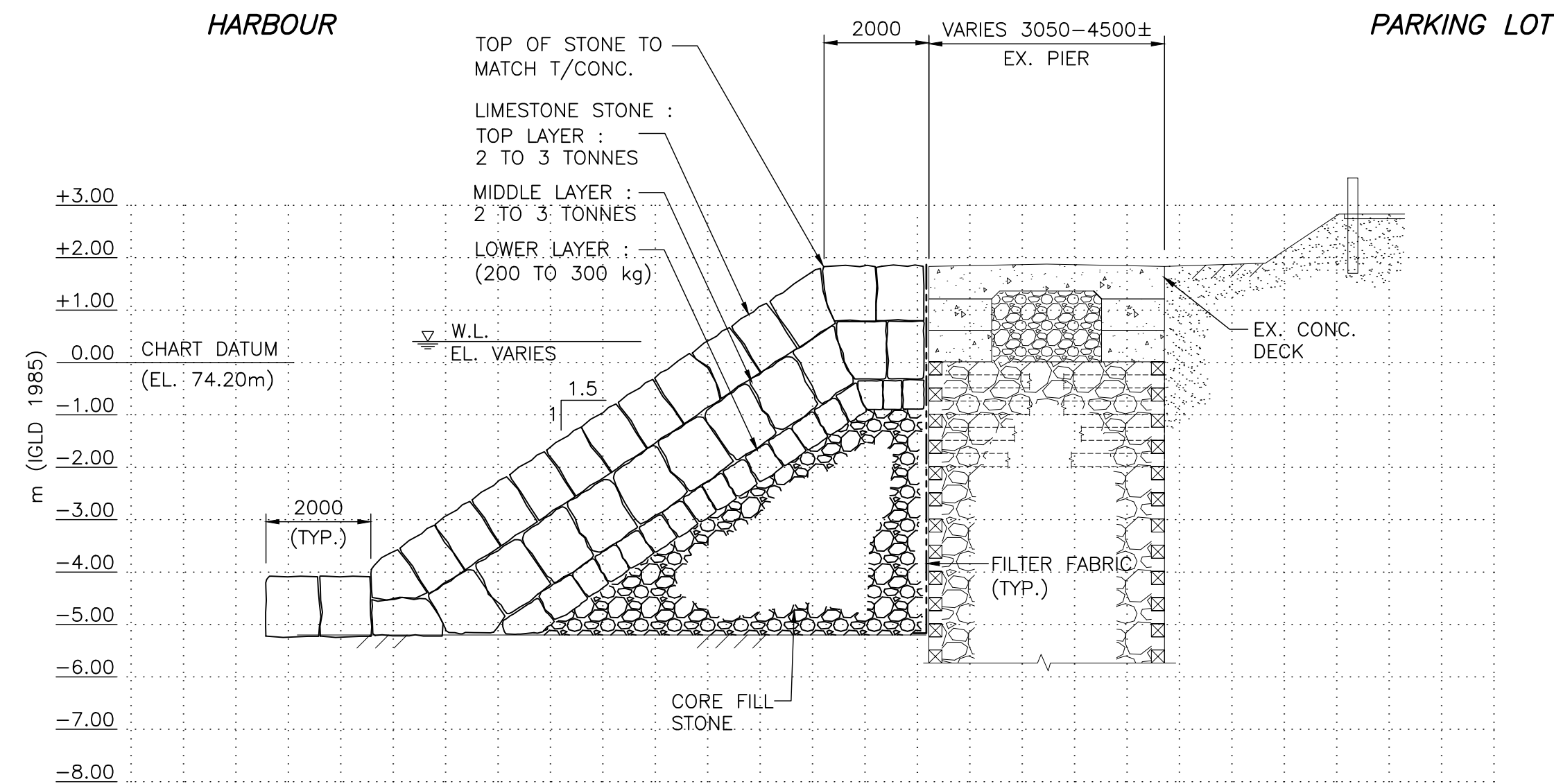
LIMESTONE BLOCK WALL SOUTH WEST AS SHOWN
SOUTH EAST SIMILAR

25
S-12
SCALE 1:100



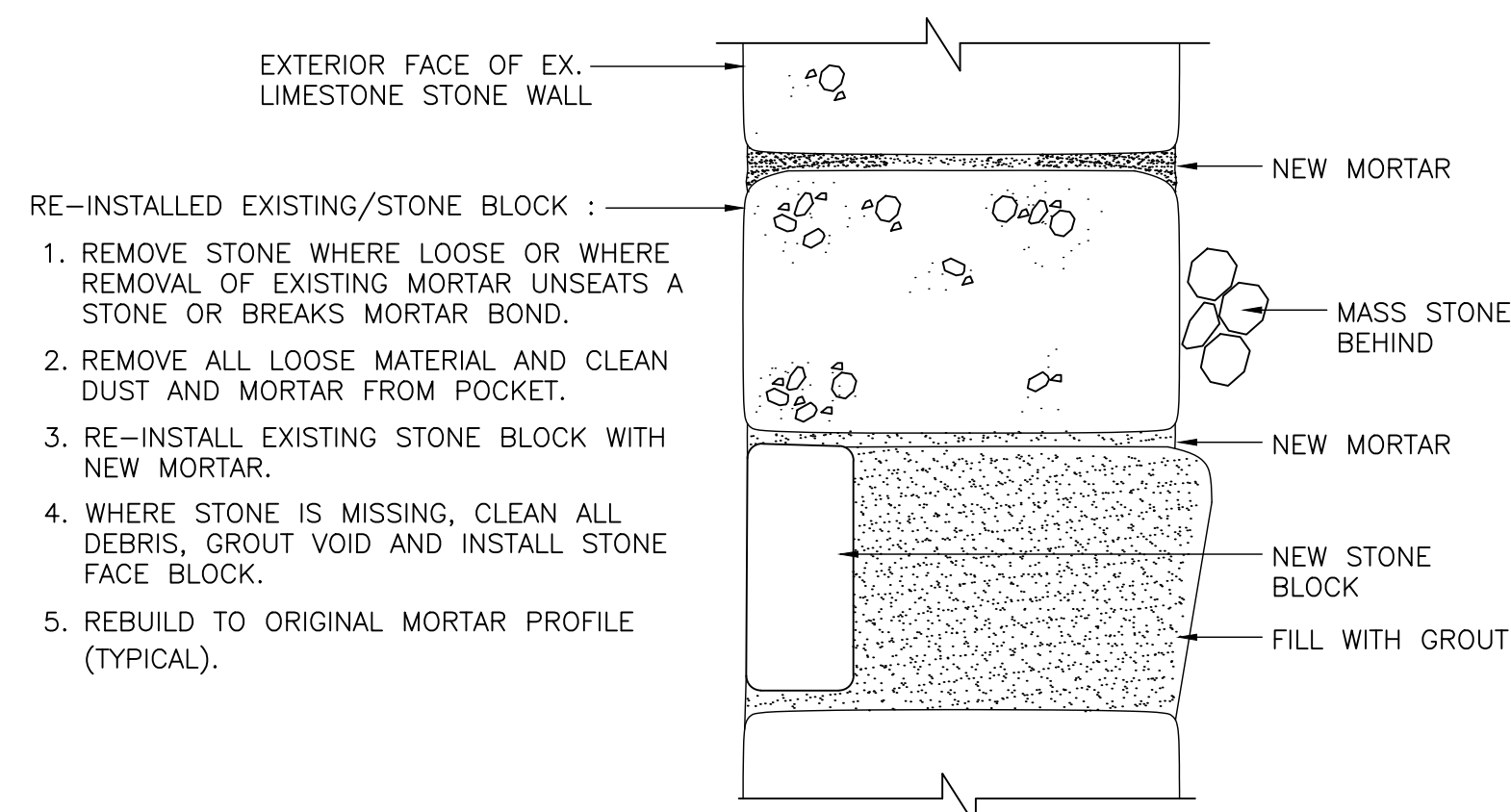
SOUTH WEST WALL

26
S-12
SCALE 1:100

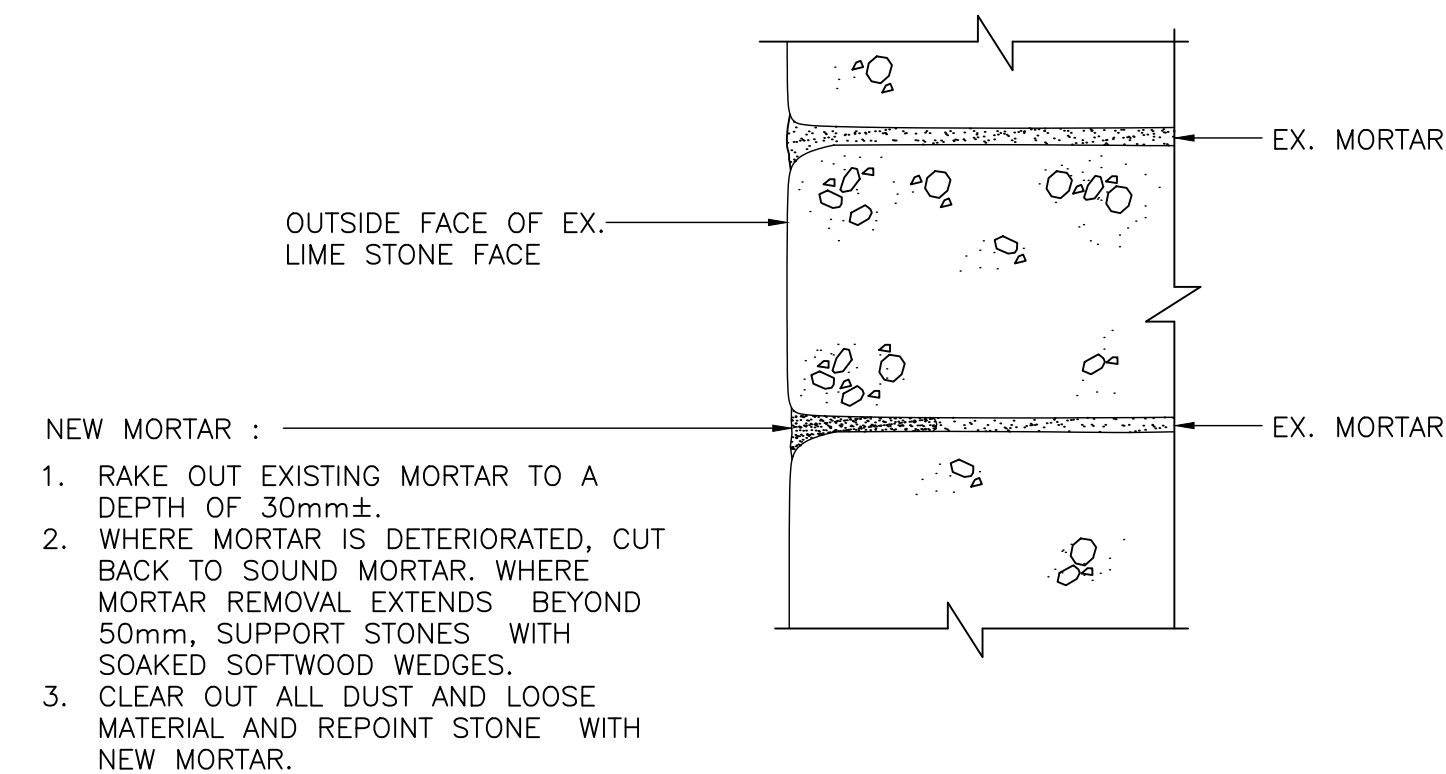


SOUTH EAST WALL

27
S-12
SCALE 1:100



EXISTING / NEW STONE INSTALLATION DETAIL



MORTAR JOINT REPAIR DETAILS

NOTE : MATCH MORTAR COLOUR TO BE UNIFORM IN ALL REPAIR AREAS.

LIMESTONE BLOCK WALL REPAIR DETAILS

N.T.S.

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

SECTIONS
REHABILITATED - 3

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

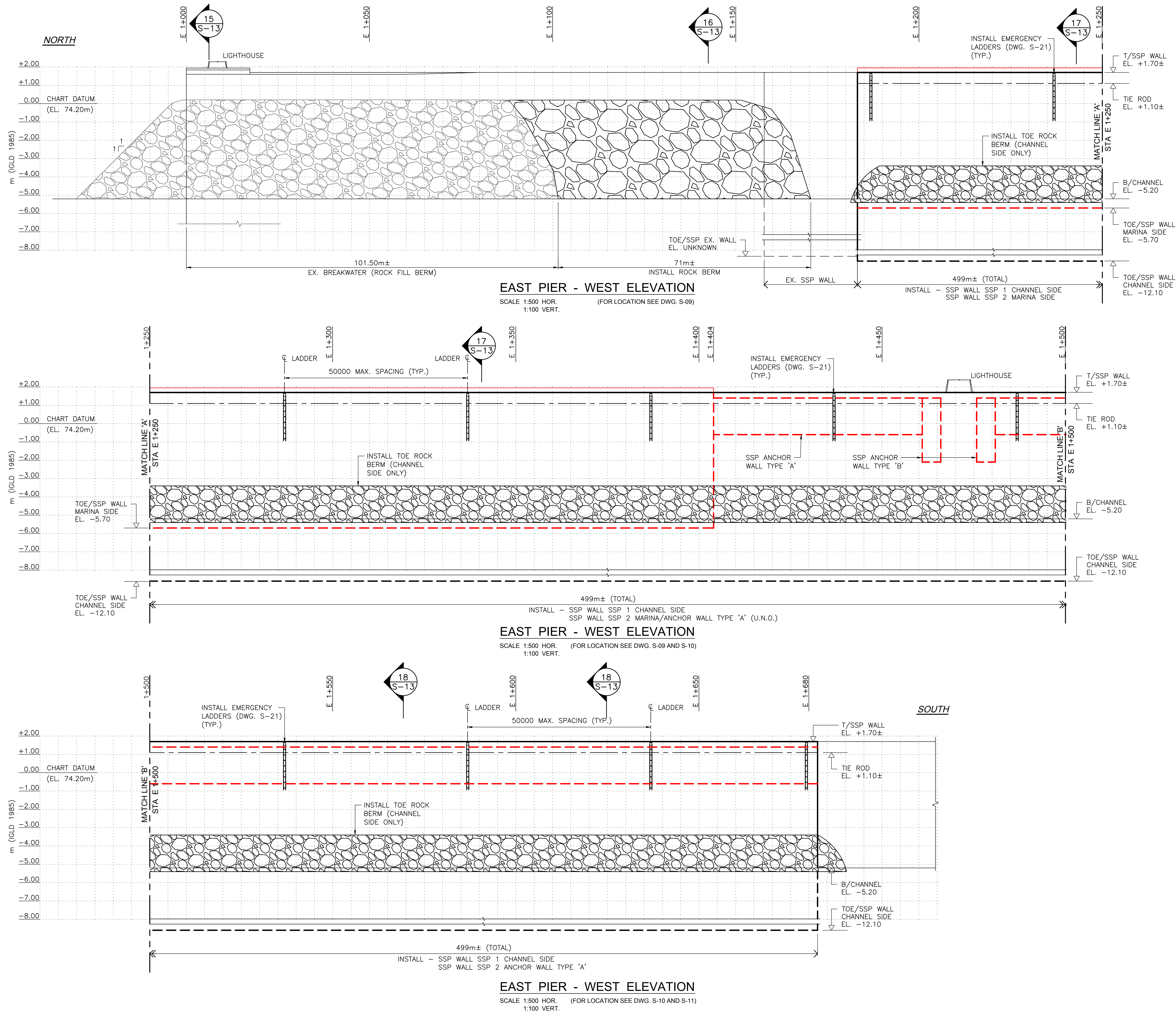
bid
offre
project manager
administrateur
de projets

project date
date du projet
2018-07-20

project no.
no. du projet

drawing no.
dessiné no.
S-15
locator code
code de localisation
4768

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DATE: 8/8/2018 1:17:03 PM



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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

PARTIAL WALL ELEVATIONS
REHABILITATED - 1

drawn by
dessiné par B.J.B./T.G.

designed by
conçu par S.N./J.P.

approved by
approuvé par J.W./J.P.

bid
offre project manager
administrateur
de projets

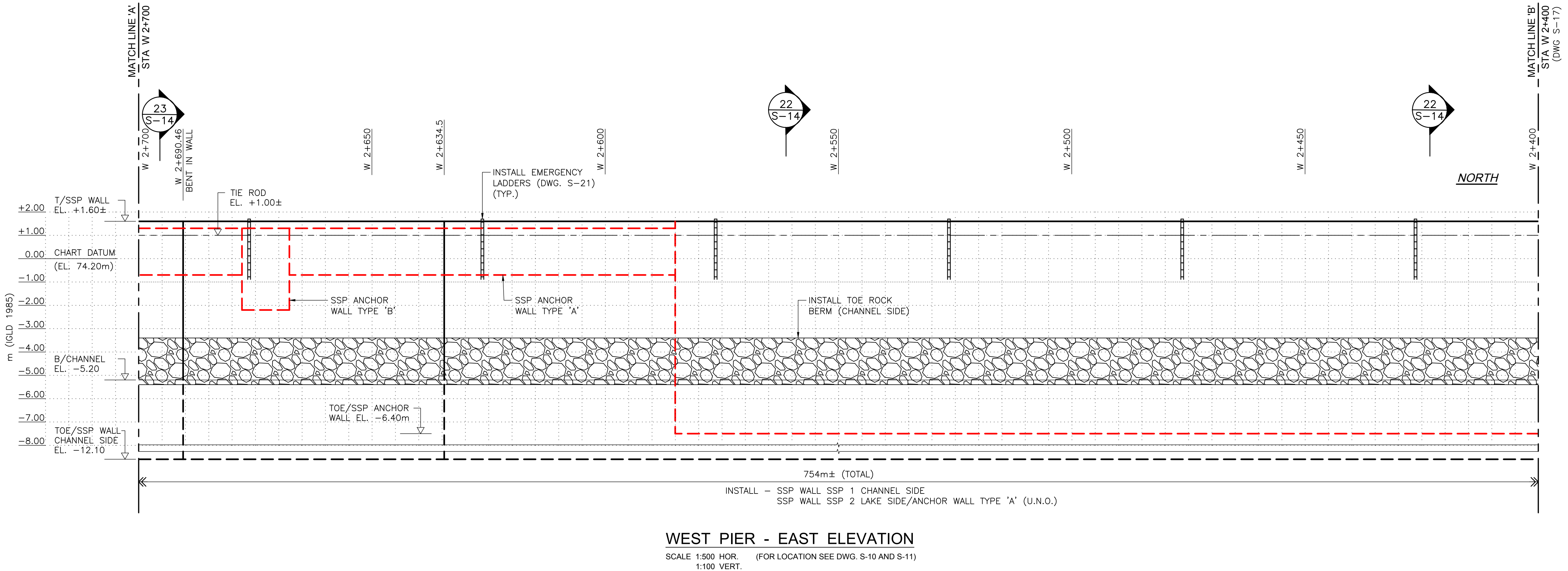
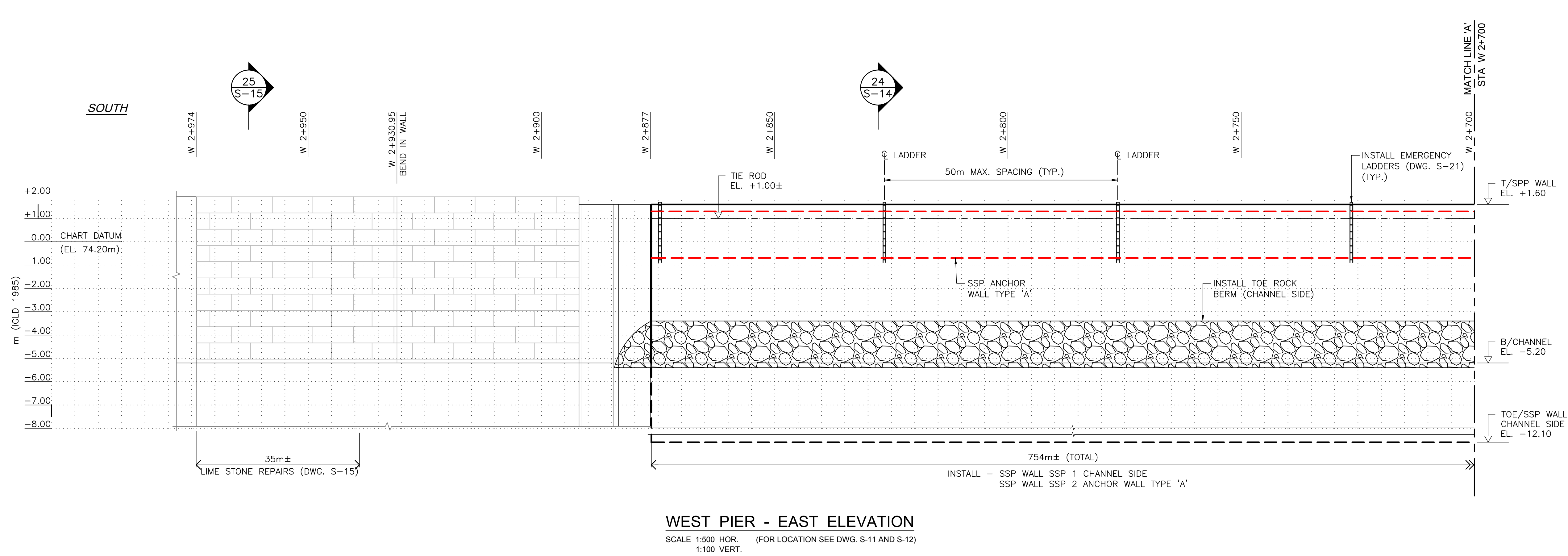
project date
date du projet 2018-07-20

project no.
no. du projet

drawing no.
dessiné no. S-16
locator code
code de localisation 4768

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DATE: 8/8/2018 1:17:08 PM



SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

PARTIAL WALL ELEVATIONS
REHABILITATED - 2

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

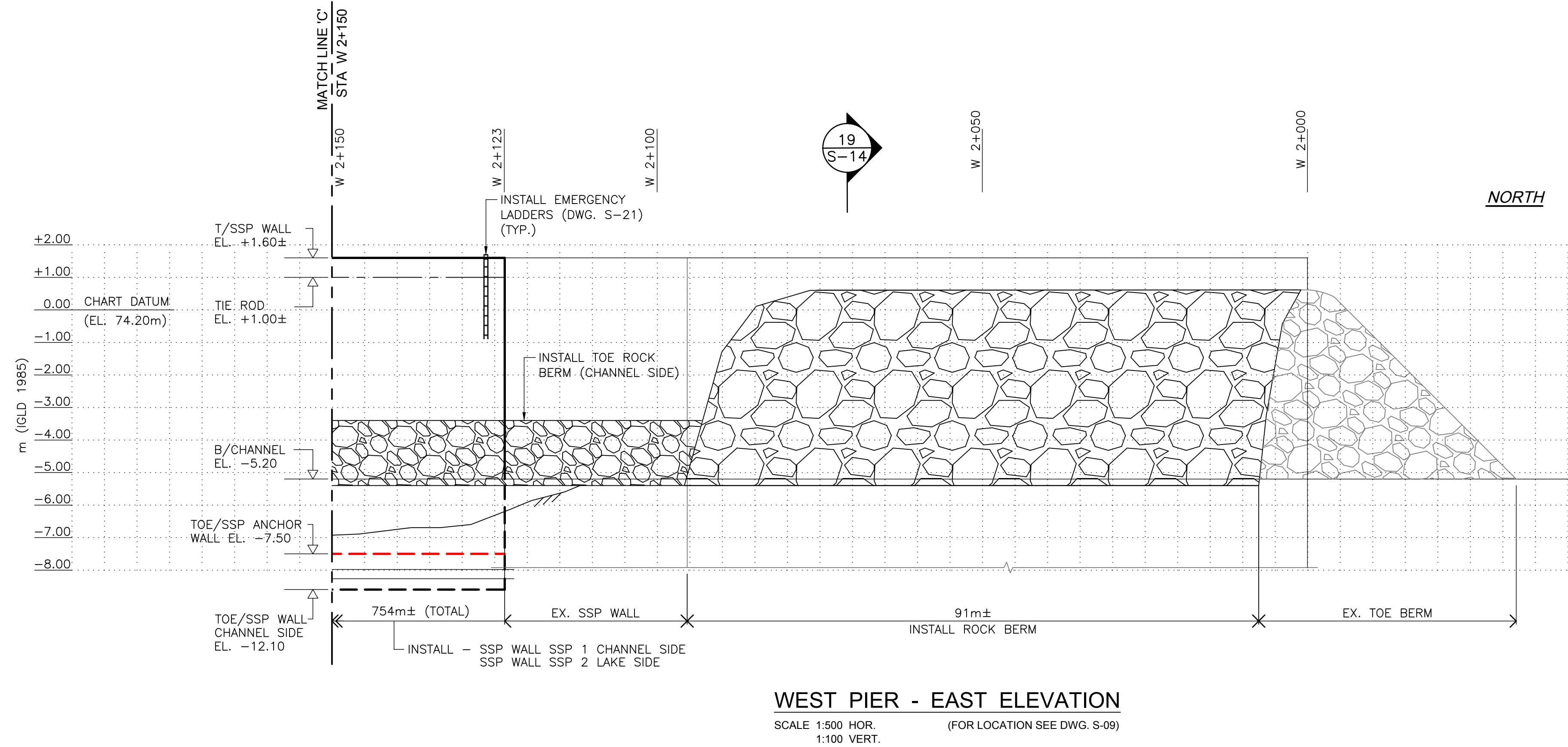
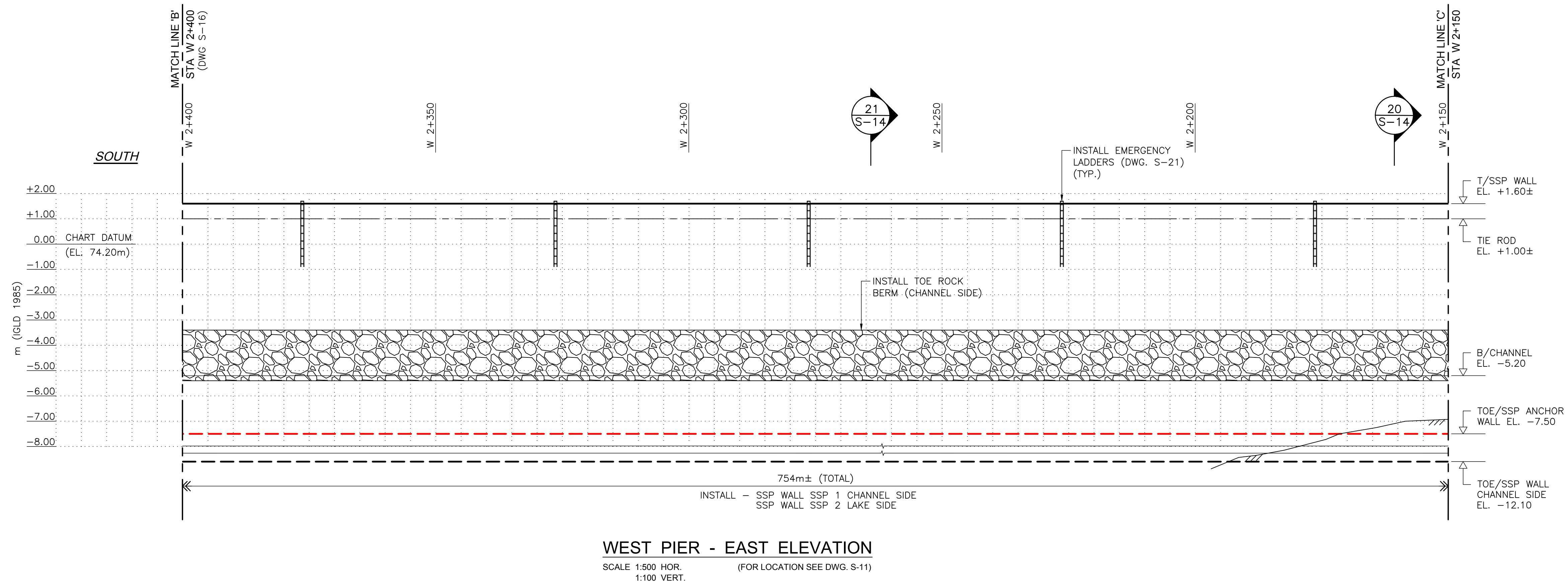
bid
offre
project manager
administrateur
de projets

project date
date du projet
2018-07-20

project no.
no. du projet

drawing no.
dessiné no.
S-17
locator code
code de localisation
4768

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**SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION**



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project title
titre du projet

**HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO**

drawing title
titre du dessin

**PARTIAL WALL ELEVATIONS
REHABILITATED - 3**

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

bid
offre

project manager
administrateur
de projets

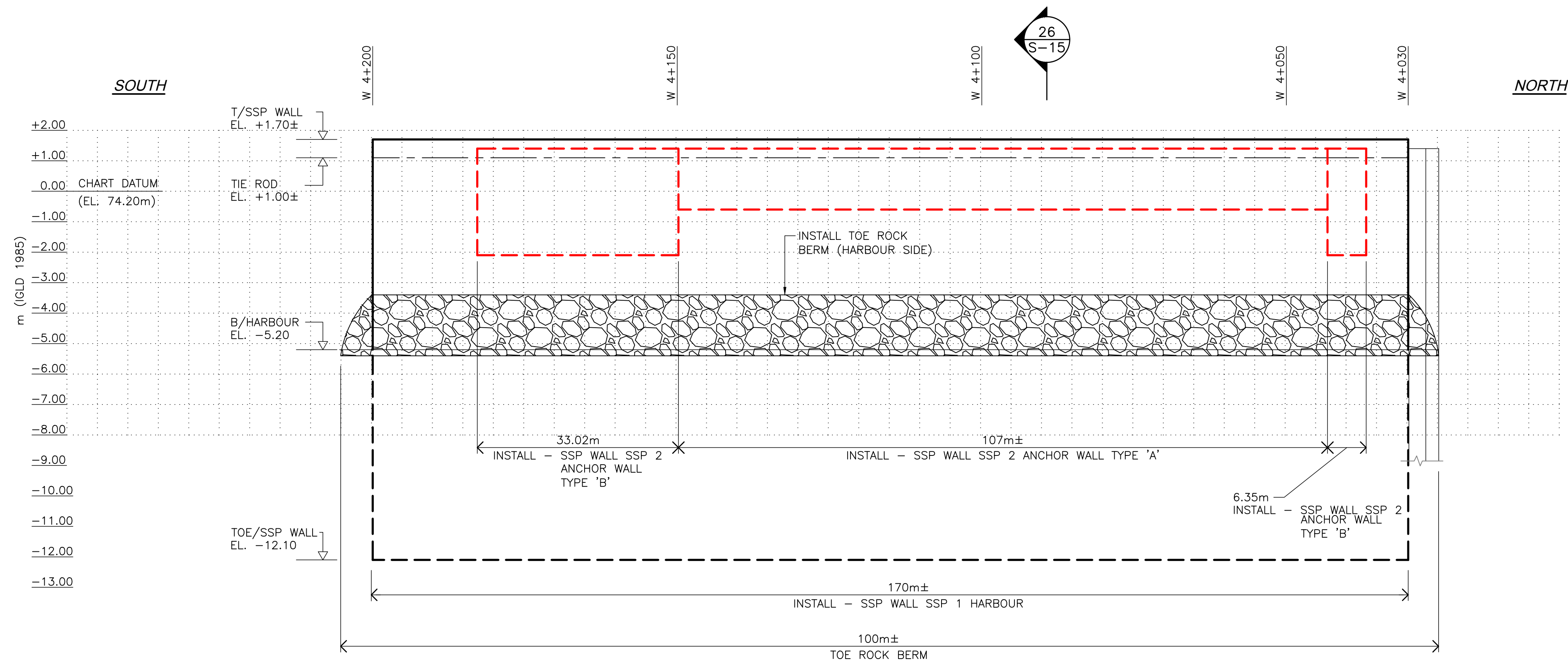
project date
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2018-07-20

project no.
no. du projet

drawing no.
dessiné no.
S-18

locator code
code de localisation
4768

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DATE: 8/8/2018 1:17:50 PM



SOUTH WEST WALL
SCALE 1:500 HOR. (FOR LOCATION SEE DWG. S-12)
1:100 VERT.



revision		date

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PROJECT No.: 60528656

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

PARTIAL WALL ELEVATIONS
REHABILITATED - 4

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

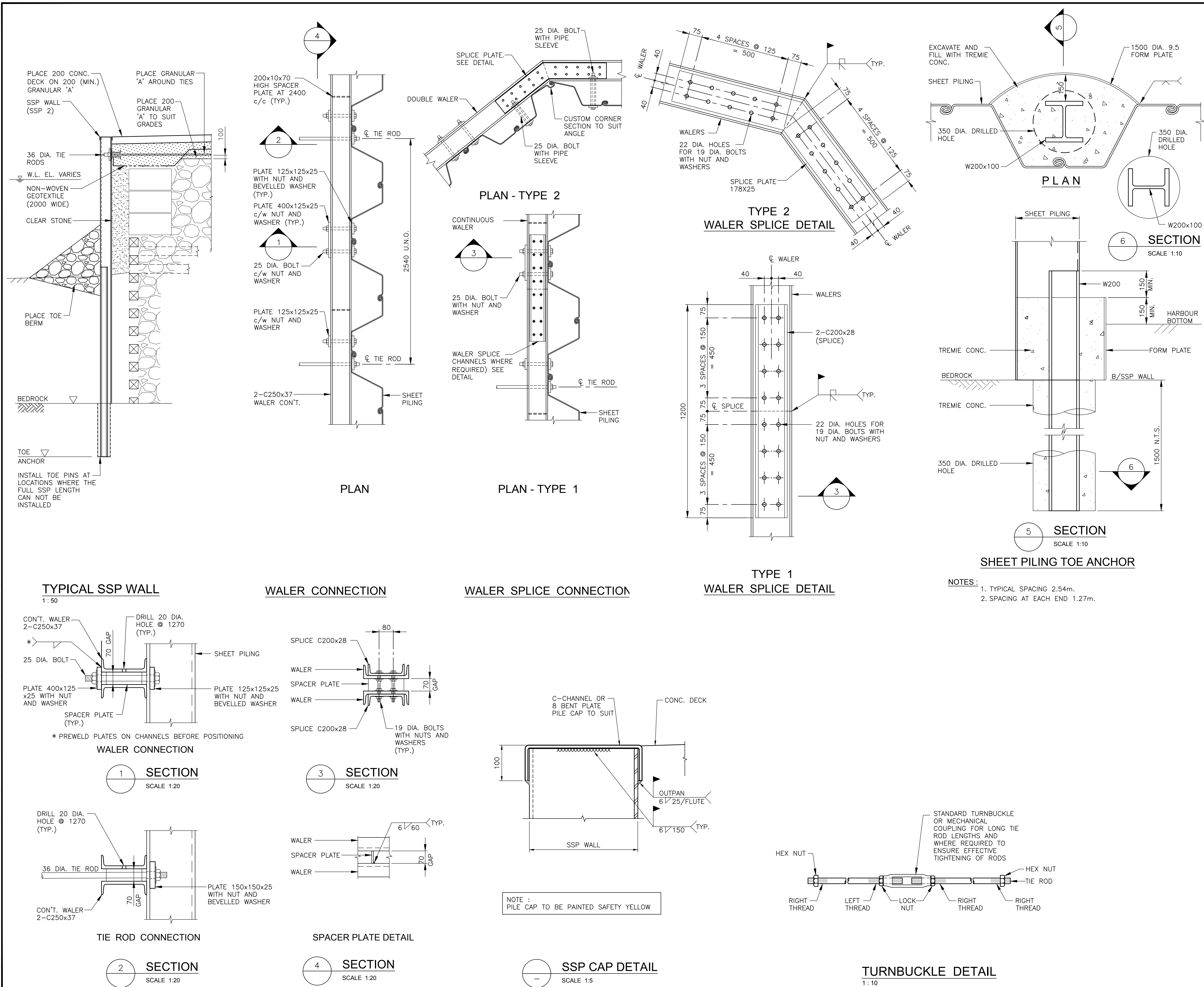
bid
offre
project manager
administrateur
de projets


project date
date du projet
2018-07-20

project no.
no. du projet

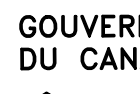
drawing no.
dessiné no.
S-19
locator code
code de localisation
4768

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DATE: 8/9/2018 11:28:19 AM






GOVERNMENT OF CANADA
FISHERIES AND OCEANS



GOVERNEMENT DU CANADA
PÊCHES ET OcéANS

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



Small Craft Harbours
Ports pour petits bateaux
www.dfo-mpo.gc.ca/scs/psh

NOTES :

1. MINIMUM WASHER THICKNESS OF 3mm SHALL BE USED. WHERE DRILLED HOLES EXCEED BOLT DIAMETER + 3mm, USE 6mm THICK WASHERS.
2. DRILLED HOLE SIZE FOR THE TIE RODS SHALL BE 40mm.

revision	date

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PROJECT No.: 60528656

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

STEEL PILING DETAILS

drawn by
dessiné par

T.G.

designed by
conçu par

J.P.

approved by
approuvé par

J.W./J.P.

bid
offre

project manager
administrateur de projets

project date
date du projet

2018-07-20

project no.
no. du projet

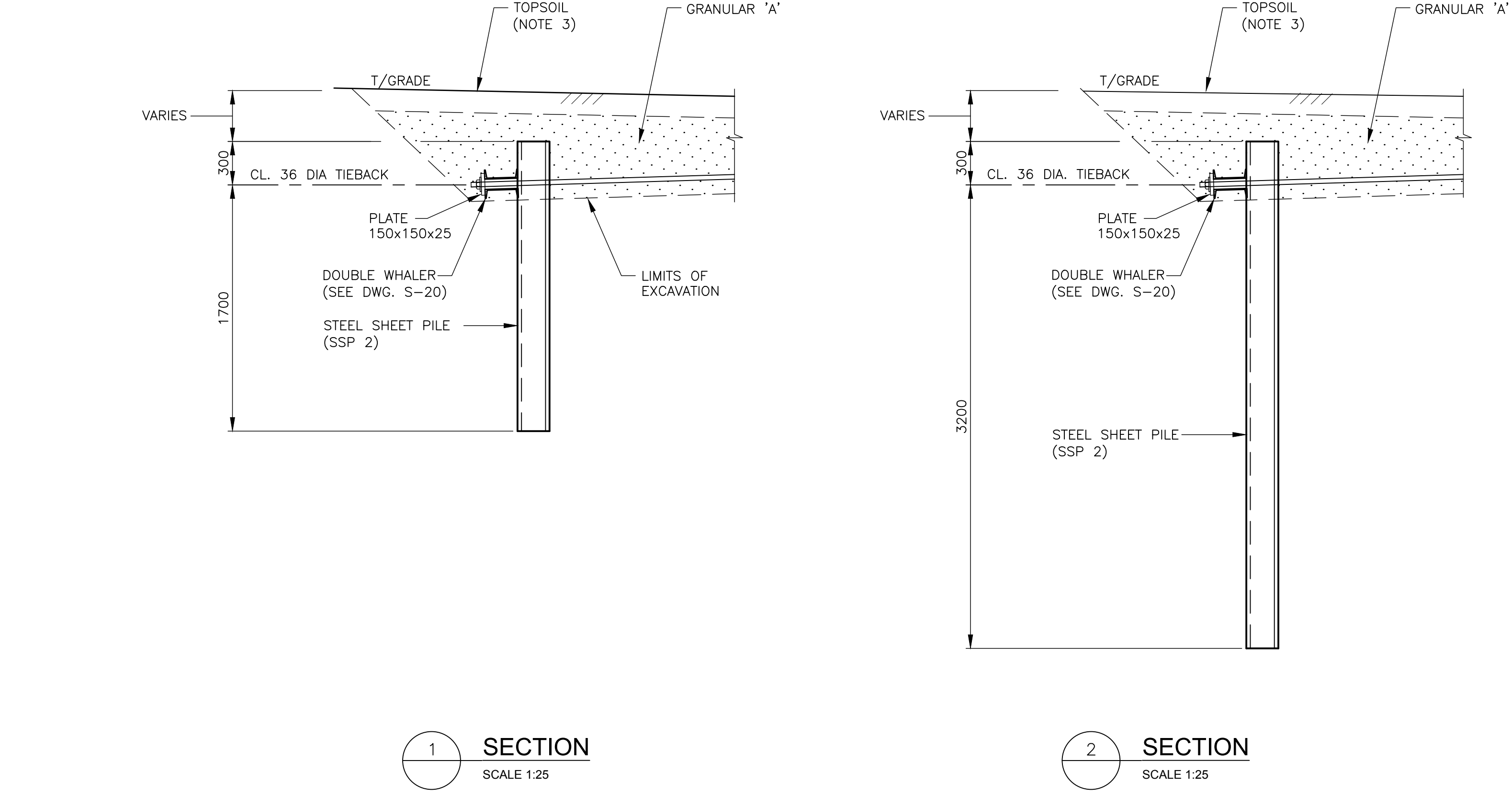
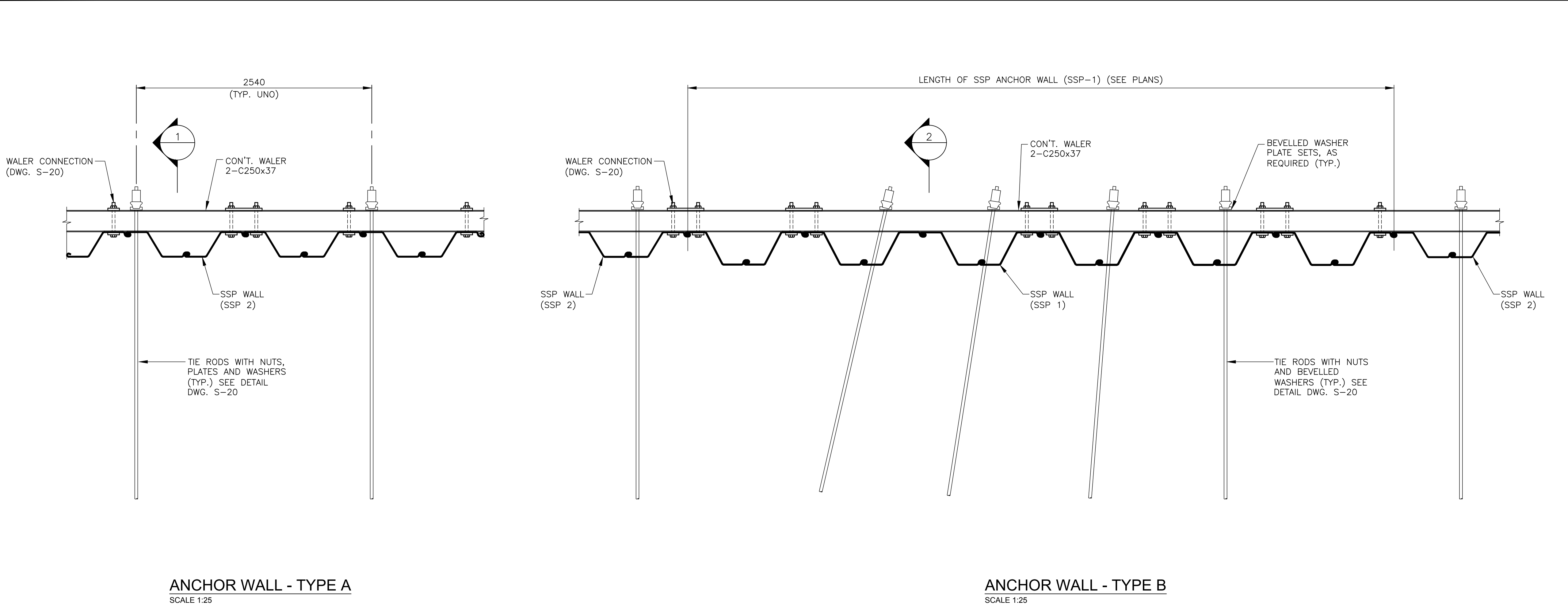
drawing no.
dessiné no.


S-20

locator code
code de localisation

4768

DRAWING FILE: C:\PROJECTS\60528656 Port Dalhousie\900-CAD-GIS\910-CAD\20-SHEETS\60528656-SHT-30-S-21
DATE: 8/9/2018 2:50:30 PM






GOVERNMENT
OF CANADA

GOVERNEMENT
DU CANADA

FISHERIES
AND OCEANS

PÊCHES
ET OcéANS

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



NOTES :

1. FOR WALER DETAILS SEE DRAWING S-20.

2. FIELD VERIFY AND FIT TIES AT ANGLES TO SUIT VARIOUS ARRANGEMENTS AS NOTED ON PLANS.

3. REINSTALL 150mm THICK TOP SOIL FROM STOCK PILED MATERIALS IN PARK AREAS (WEST PIER) AND GRASS SEED.

4. THE ARRANGEMENT FOR BEVELED WASHER PLATE SETS SHALL BE DETAILED ON SHOP DRAWINGS PROVIDED BY THE CONTRATOR.

revision		date

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Departmental Representative of all discrepancies.

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

ANCHOR WALL DETAILS

drawn by
dessine par

T.G.

designed by
conç par

J.P.

approved by
approuve par

J.W./J.P.

bid
offre

project manager
administrateur
de projets

project date
date du projet

2018-07-20

project no.
no. du projet

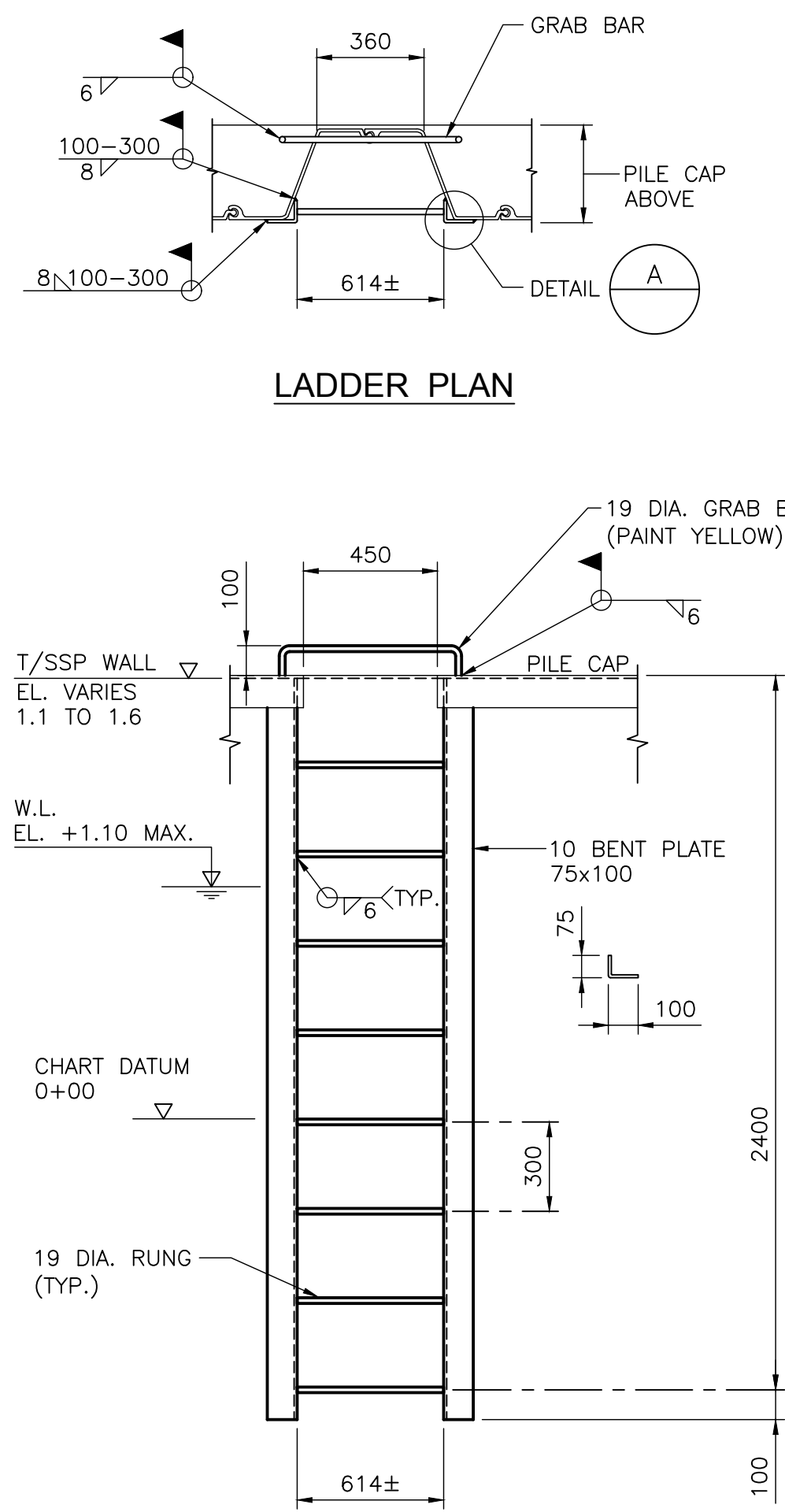
drawing no.
dessine no.

S-21

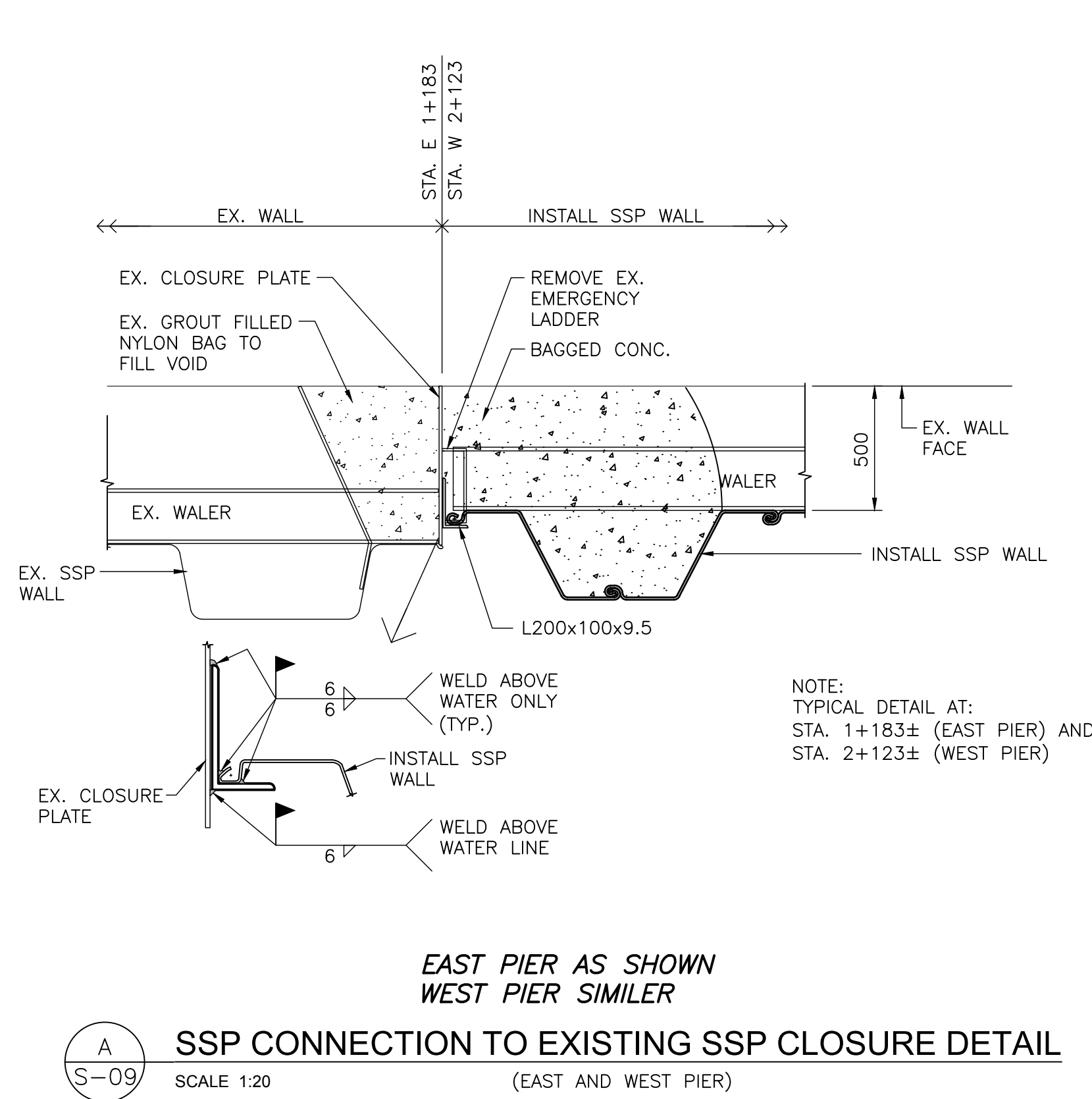
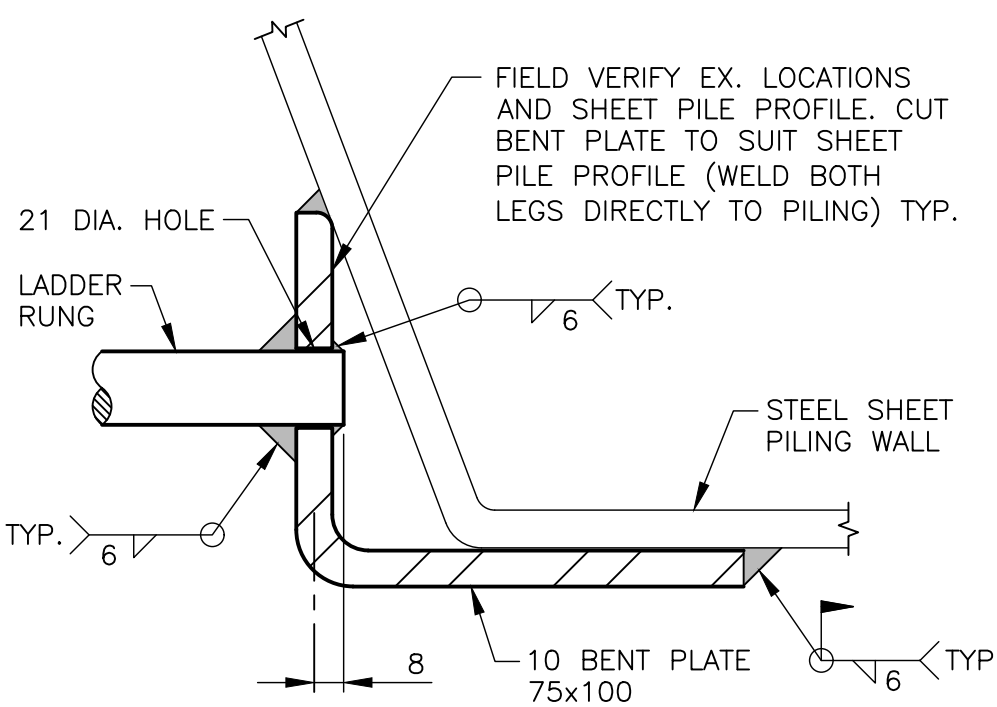
locator code
code de localisation

4768

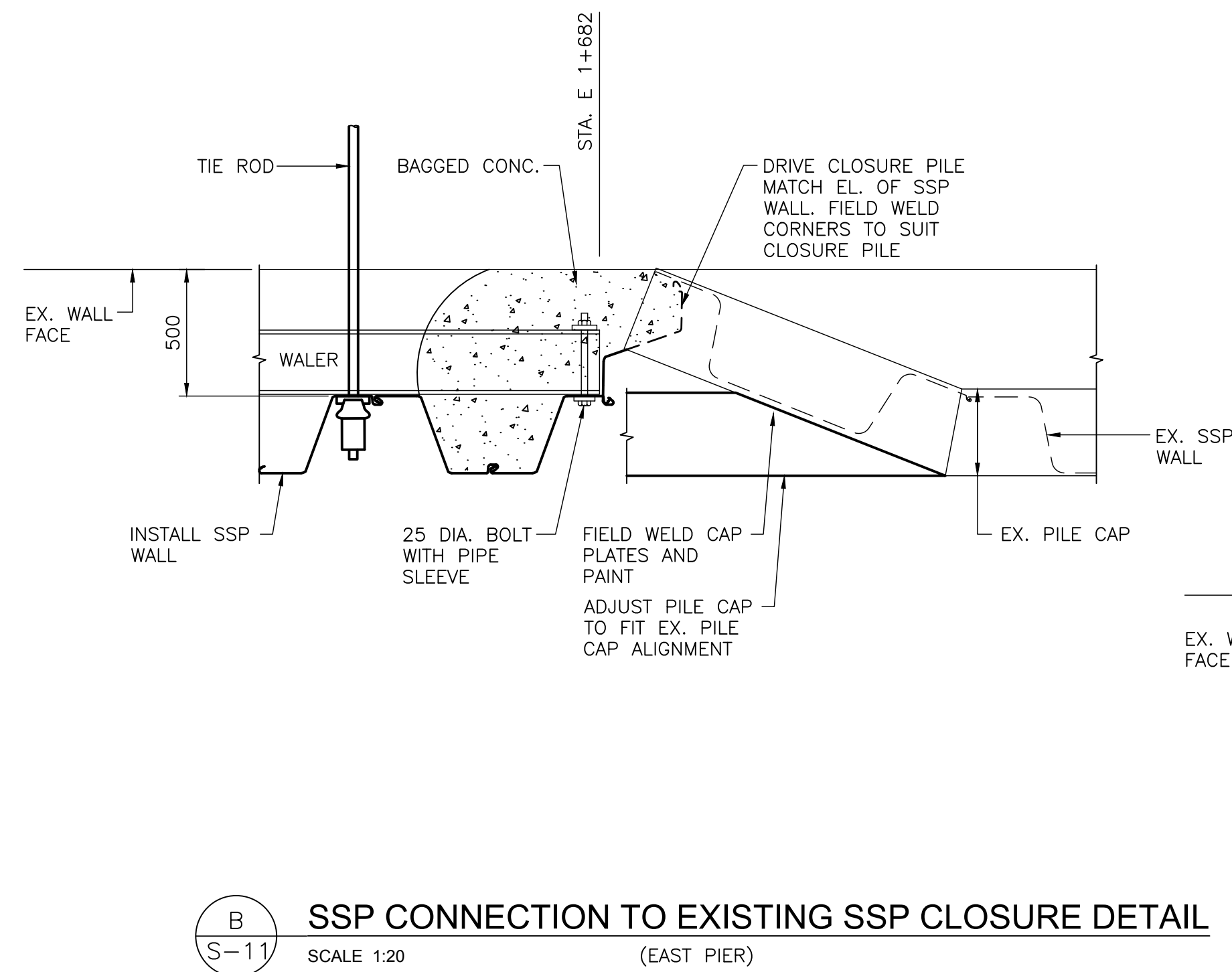
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DATE: 8/9/2018 2:50:40 PM



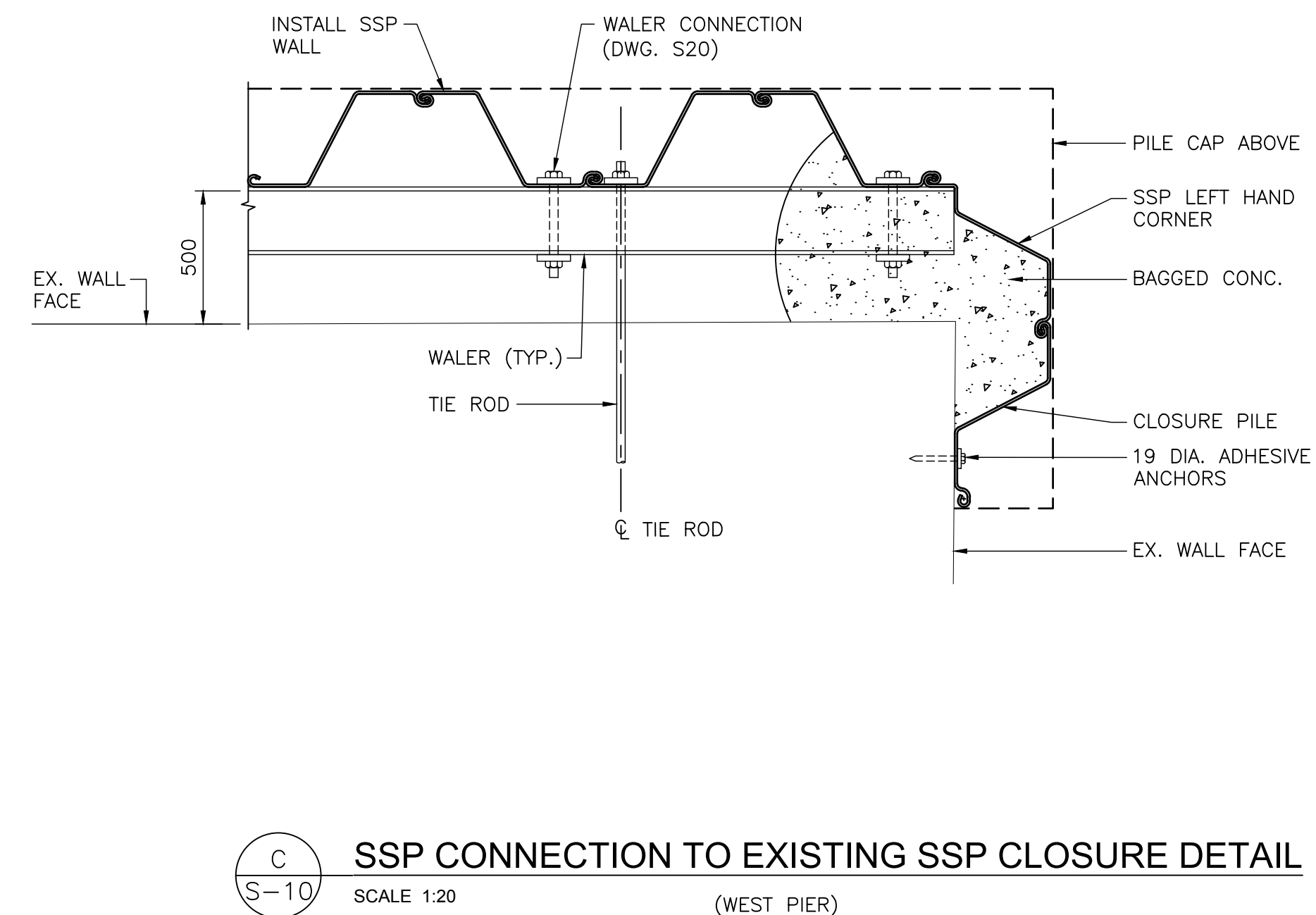
LADDER ELEVATION
* LADDERS TO BE GALVANIZED



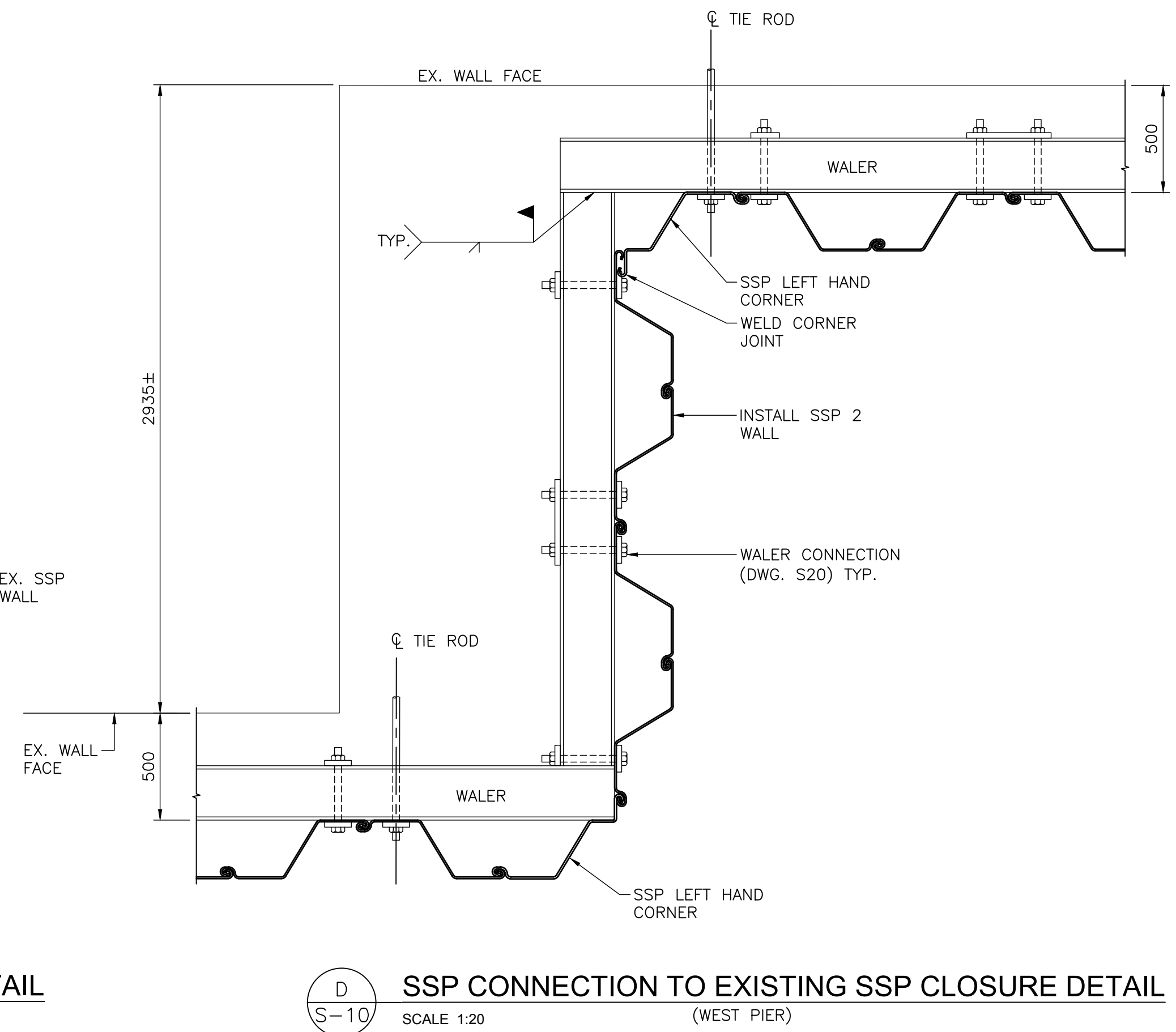
A
S-09
SCALE 1:20
(EAST AND WEST PIER)



B
S-11
SCALE 1:20
(EAST PIER)



C
S-10
SCALE 1:20
(WEST PIER)



D
S-10
SCALE 1:20
(WEST PIER)

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



revision		date

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project title
titre du projet
HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin
MISCELLANEOUS DETAILS

drawn by
dessiné par
B.J.B./T.G.

designed by
conçu par
S.N./J.P.

approved by
approuvé par
J.W./J.P.

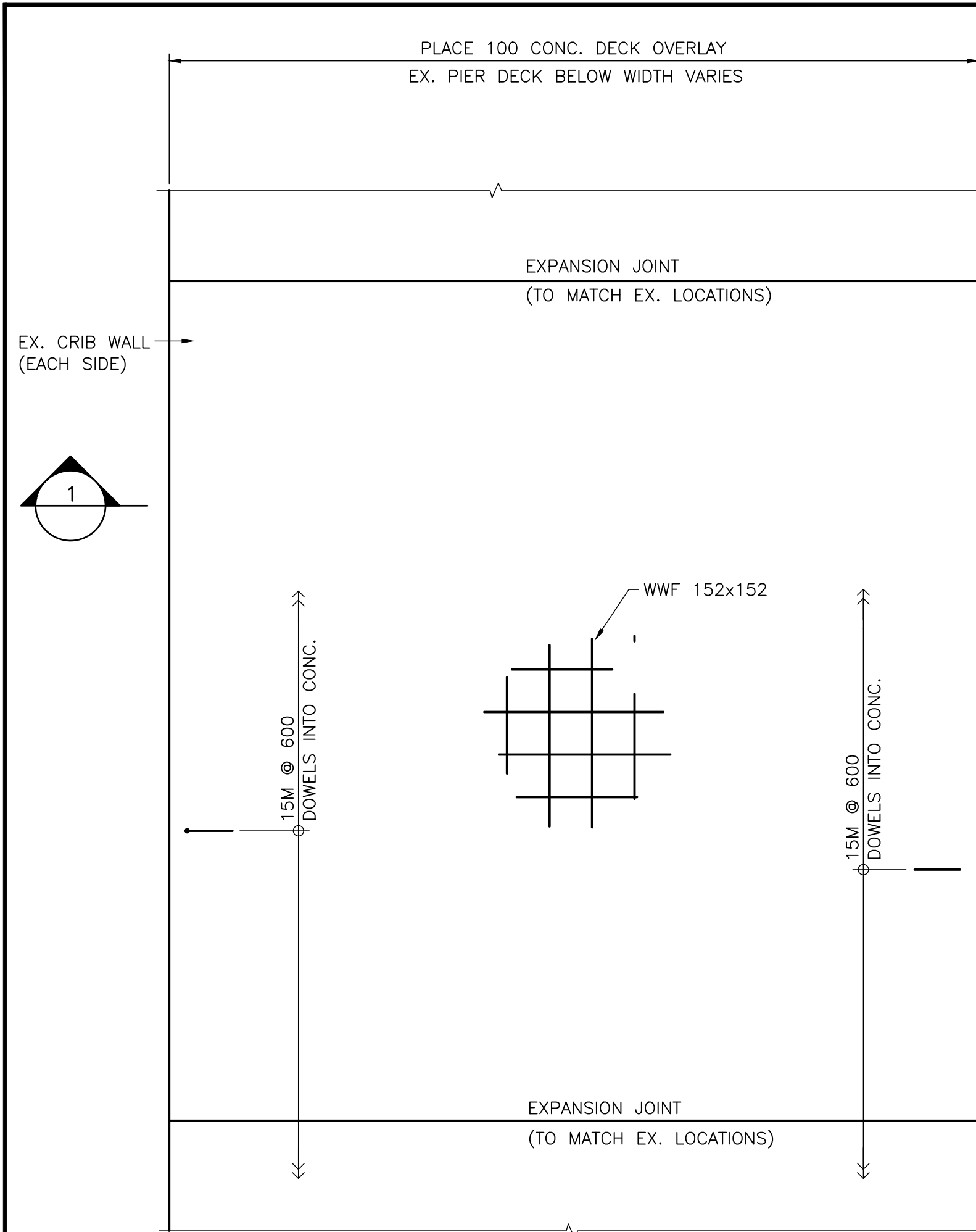
bid
offre
project manager
administrateur de projets

project date
date du projet
2018-07-20

project no.
no. du projet

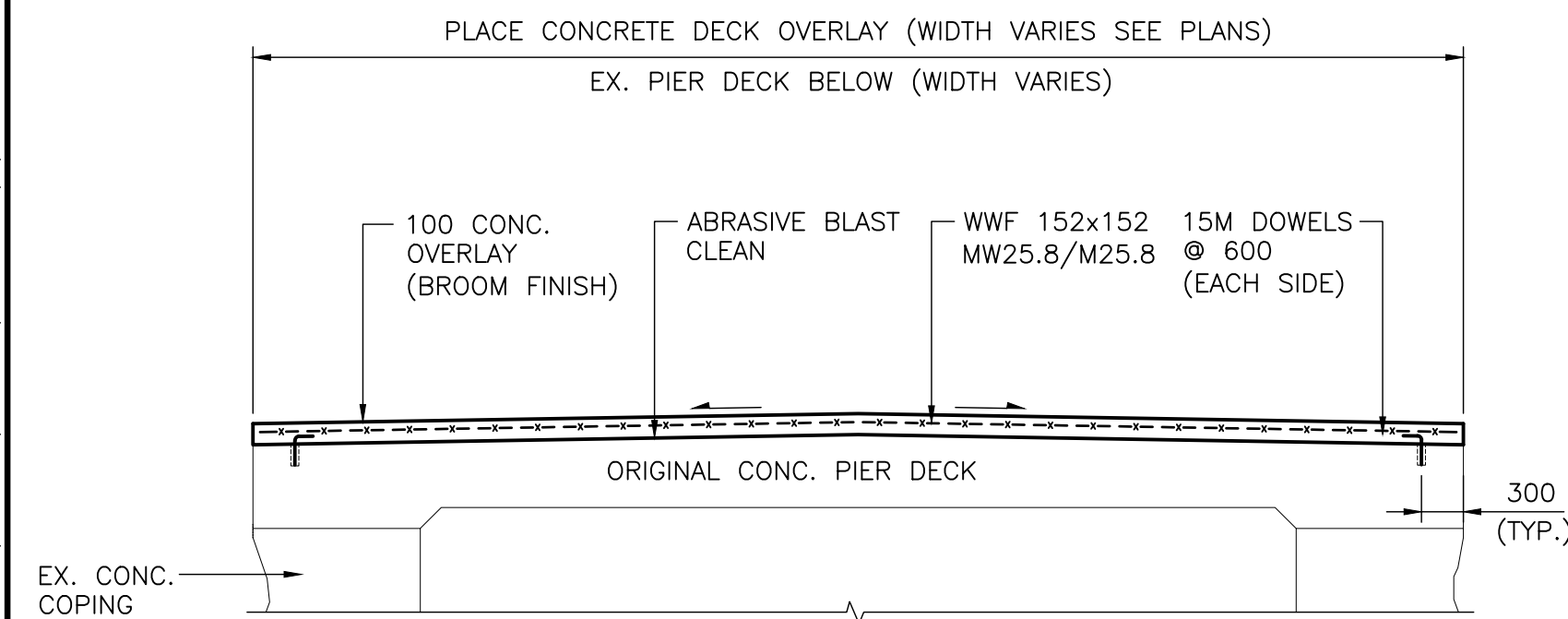
drawing no.
dessiné no.
S-22
locator code
code de localisation
4768

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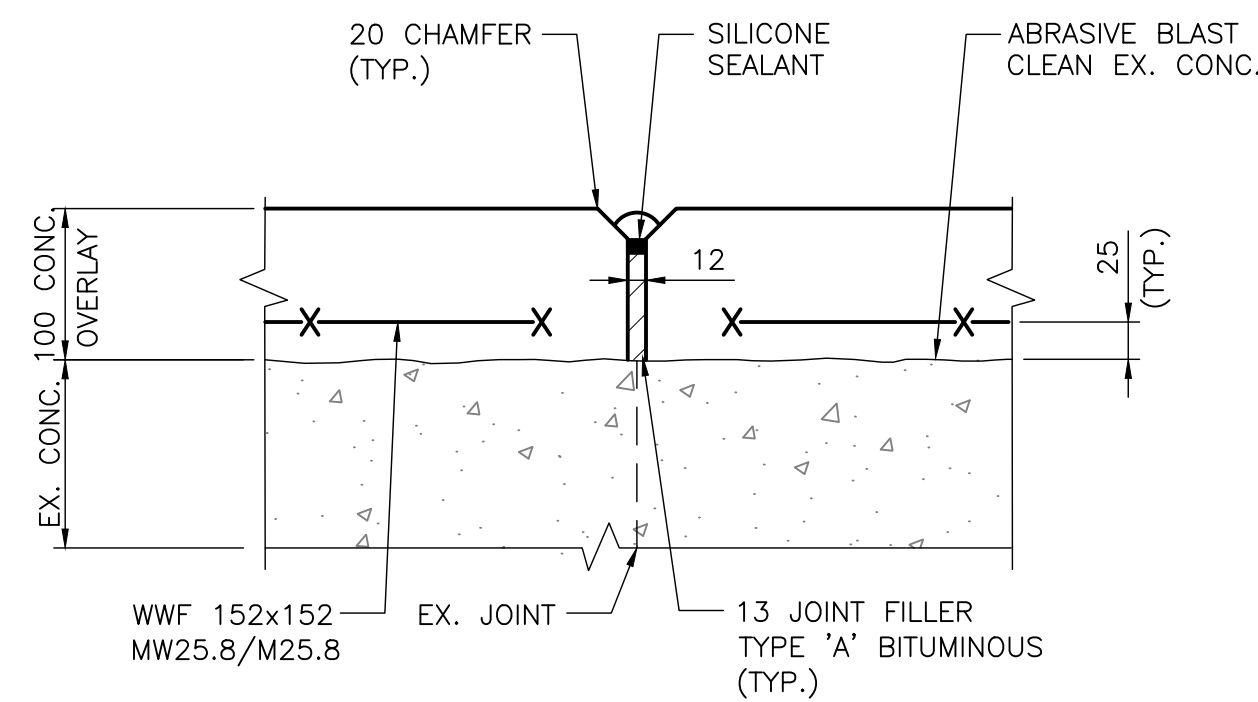
PARTIAL PLAN PIER DECK OVERLAY

N.T.S.



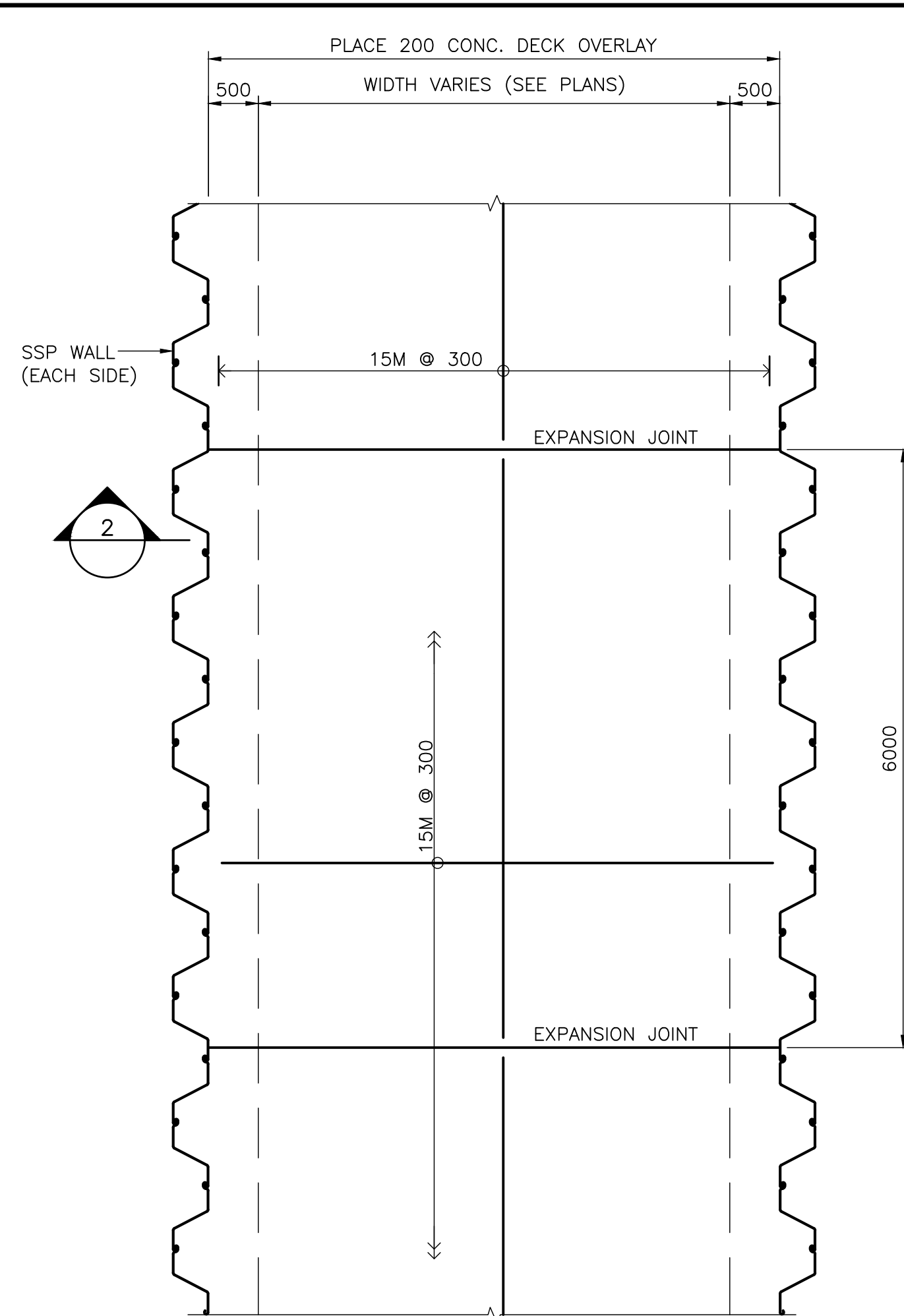
1 SECTION

N.T.S.



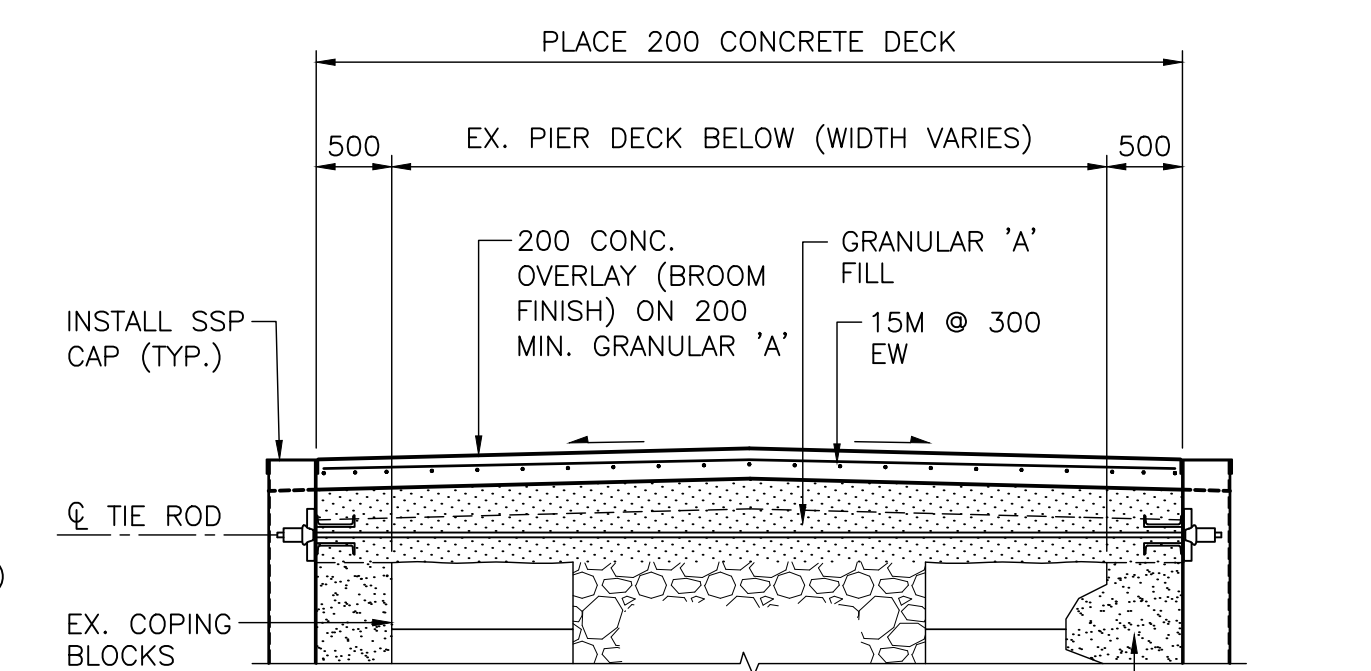
DECK EXPANSION JOINT SECTION - WWF

SCALE 1:5



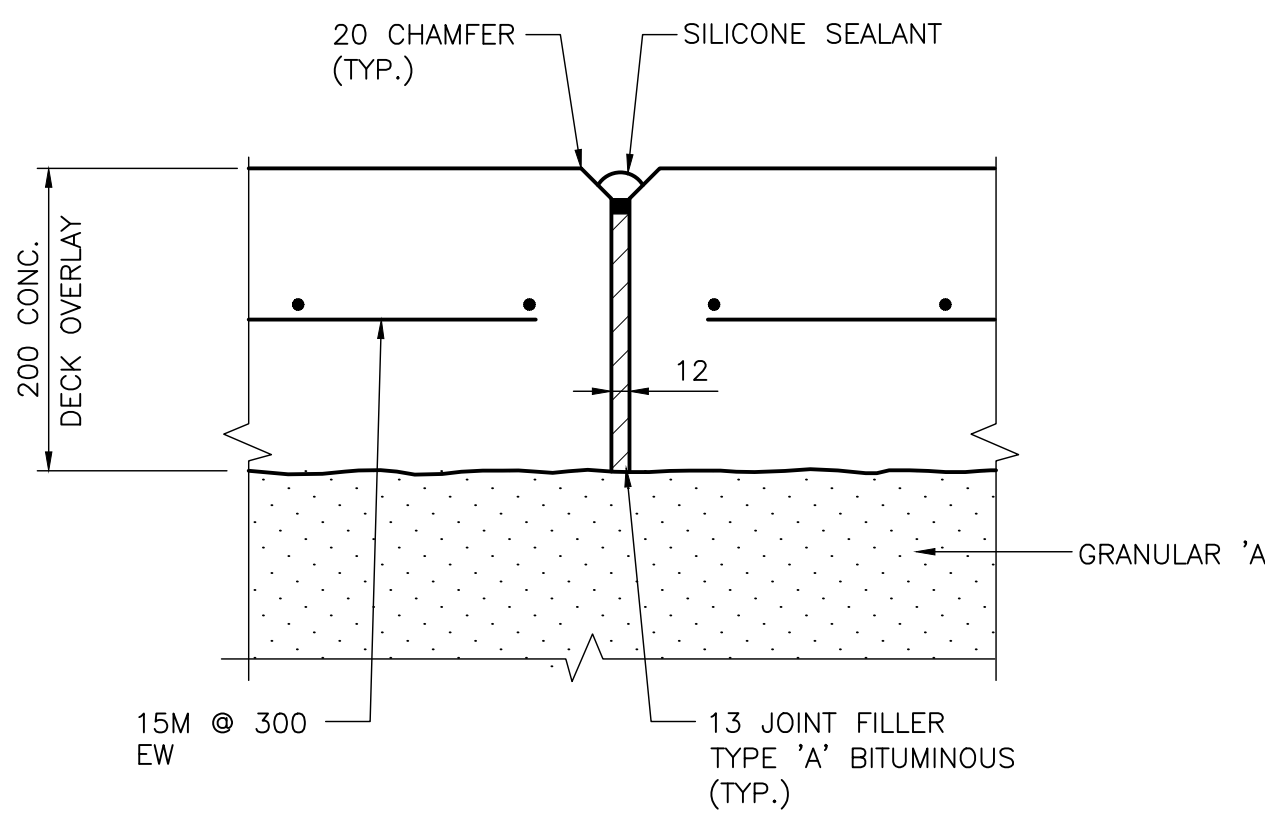
PARTIAL PLAN PIER DECK SSP WALLS

N.T.S.



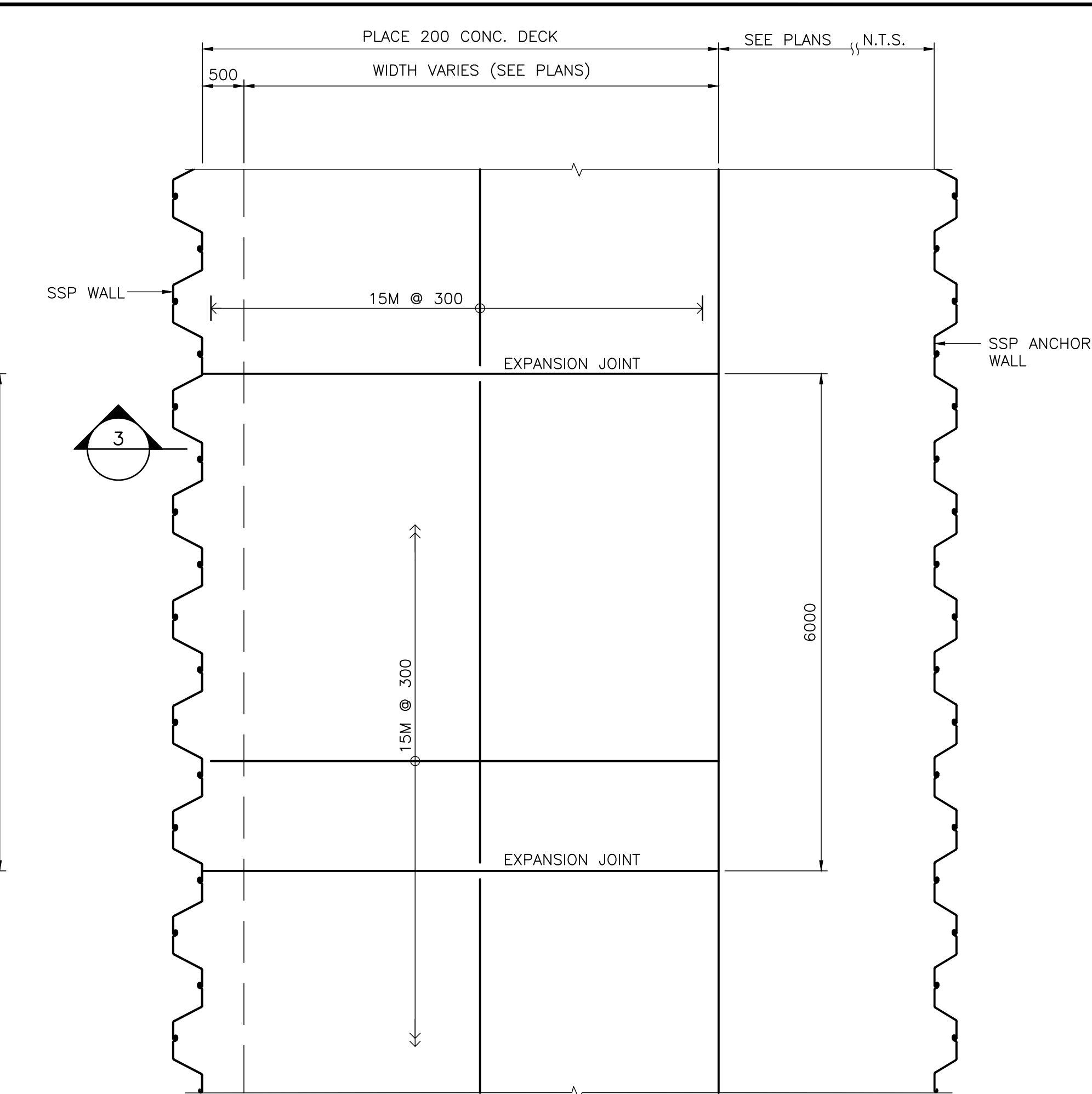
2 SECTION

N.T.S.



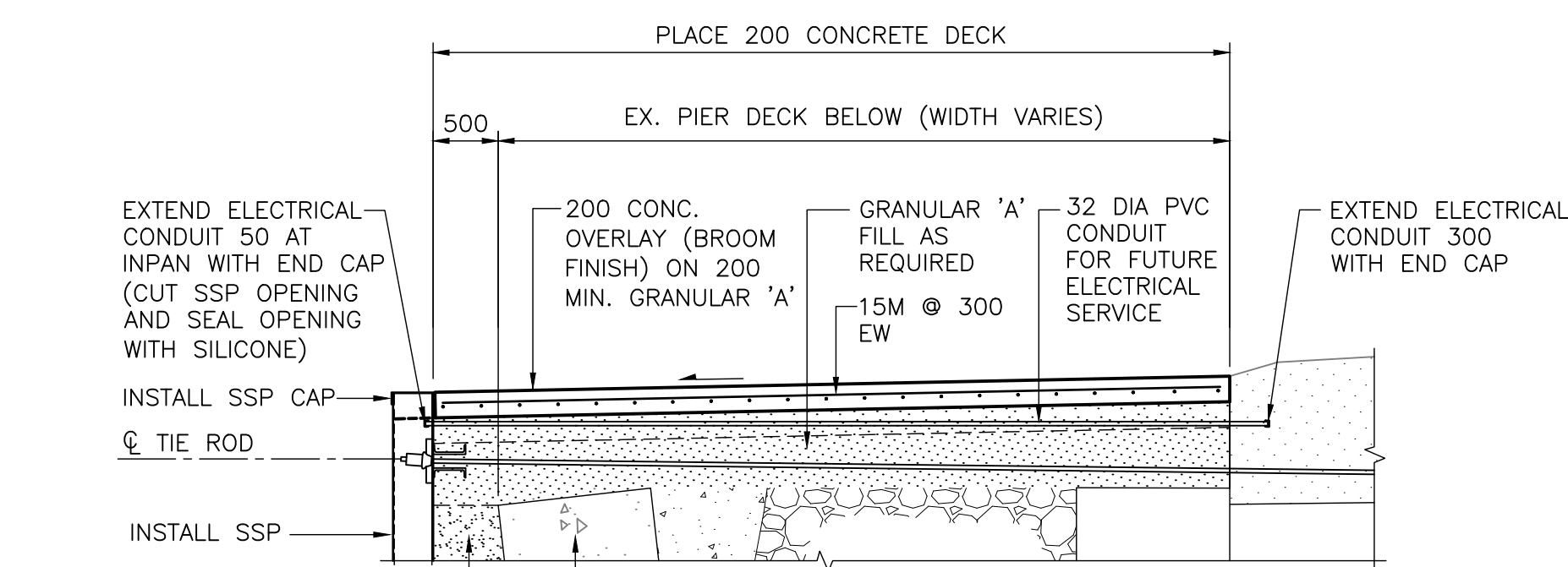
DECK EXPANSION JOINT SECTION - REBAR

SCALE 1:5



PARTIAL PLAN PIER DECK SSP WALL ANCHOR WALL

N.T.S.



3 SECTION

N.T.S.

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



NOTE :

1. BEND TRANSVERSE REINFORCING STEEL OR LAP, AS REQUIRED TO SUIT CENTRE CROWNS IN DECK SLAB.
2. WHERE ELEVATIONS ARE NOT PROVIDED ON PLAN, PROVIDE DECK SURFACE SLOPE OF 2%.

revision		date

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project title
titre du projet

HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin

TYPICAL DECK DETAILS

drawn by
dessiné par
T.G.

designed by
conçue par
J.P.

approved by
approuvé par
J.W./J.P.

bid
offre
project manager
administrateur
de projets

project date
date du projet
2018-07-20

project no.
no. du projet

drawing no.
dessiné no.
S-23
locator code
code de localisation
4768



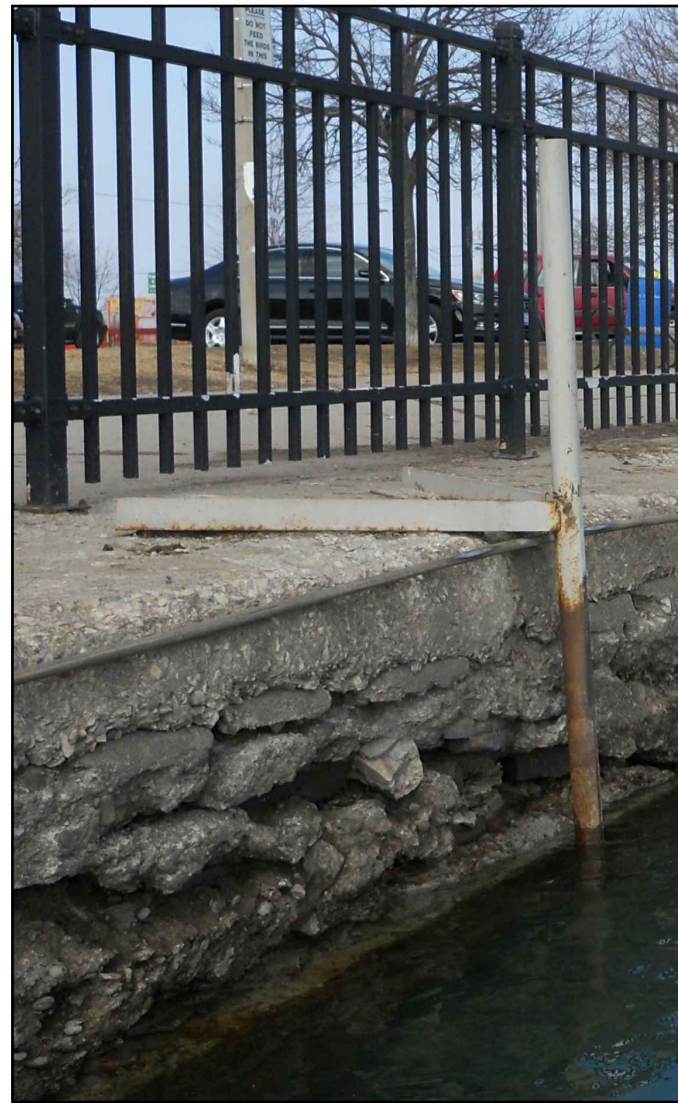
BENCH



ORNAMENTAL RAILING



BOLLARDS



DOCK OR BOAT TIE POINT



DOCK TIE POINTS



TIMBER BUMPER BOARDS



POST



CLEAT



LIFE RING STATION



EMERGENCY LADDER



POWER PEDESTALS

REMOVAL LIST OF EXISTING ACCESSORIES		
ITEM	ACTION	OWNED BY
BOLLARDS	REMOVE/RE-INSTATE WHERE FEASIBLE (OR RETAIN IN PLACE)	SCH
HYDRO POLES	RETAIN IN PLACE	CITY
EMERGENCY LADDERS	REMOVE AND DISPOSE	DYC
LIFE RING STATIONS	REMOVE AND RE-INSTATE	DYC
POWER PEDESTALS	REMOVE, SALVAGE AND STORE	CITY
LIGHT STANDARDS	RETAIN IN PLACE	CITY
BELL PEDESTALS	RETAIN IN PLACE	BELL
MOORING CLEATS	REMOVE, SALVAGE AND STORE	DYC
TIMBER BUMPER BOARDS	REMOVE AND DISPOSE	DYC
NAVIGATIONAL AID	RETAIN IN PLACE	CITY
BENCHES	REMOVED BY OTHERS	CITY
ORNAMENTAL RAILING	REMOVE AND REINSTALL (STA. W2+775 - W2+878)	CITY
NOTES :		
1. CONTRACTOR TO CONFIRM LOCATION OF ALL ITEMS FOR REINSTALLATION, UNLESS OTHERWISE NOTED.		
2. ALL SIGNAGE TO BE RETURNED TO OWNER.		
3. ALL REINSTATED ITEMS SHALL BE INSTALLED WITH 4-16 DIAMETER STAINLESS STEEL ADHESIVE ANCHORS WITH AN EMBEDMENT OF 120mm. FIELD CONFIRM DETAILS AND ADJUST TO SUIT.		
LEGEND :		
DYC	PORT DALHOUSIE YACHT CLUB	
CITY	CITY OF ST. CATHARINES	
SCH	SMALL CRAFT HARBOURS	



revision	date

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project title
titre du projet
HARBOUR REHABILITATION
PORT DALHOUSIE, ONTARIO

drawing title
titre du dessin
REMOVAL DETAILS

drawn by
dessiné par
T.G.

designed by
conçu par
J.P.

approved by
approuvé par
J.W./J.P.

bid
offre
project manager
administrateur
de projets

project date
date du projet
2018-07-20

project no.
no. du projet

drawing no.
dessiné no.
S-24
locator code
code de localisation
4768