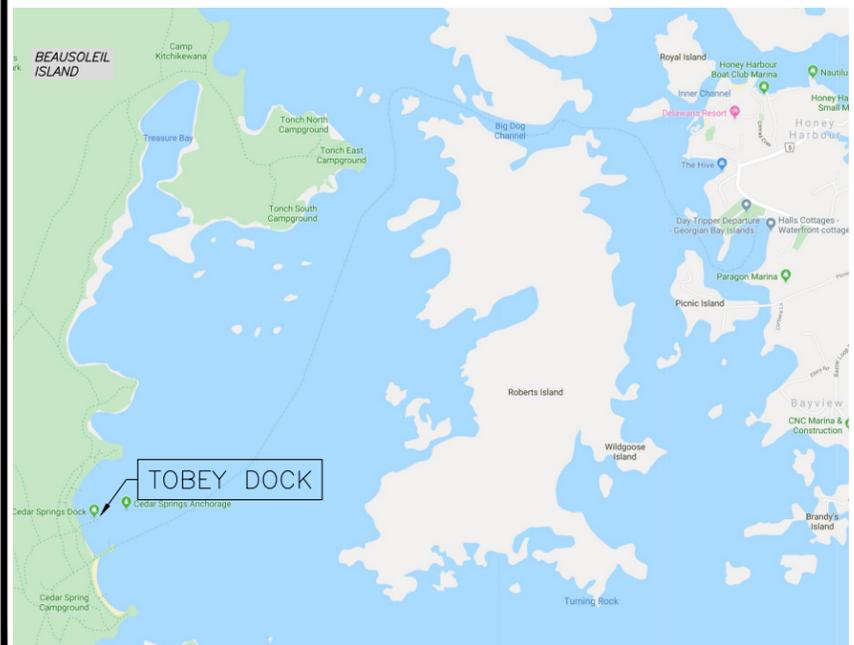


GENERAL ARRANGEMENT PLAN



- INDEX:
- 0.0 COVER SHEET
 - 1.0 GENERAL ARRANGEMENT PLAN & SCOPE OF WORK
 - 1.1 EXISTING DOCK
 - 2.0 PIER PLAN & SECTION
 - 2.1 CELL 1 & 2 PLAN & SECTION
 - 2.2 CELL 3 PLAN SECTION & DETAILS
 - 3.0 BRIDGES PLAN & DETAILS



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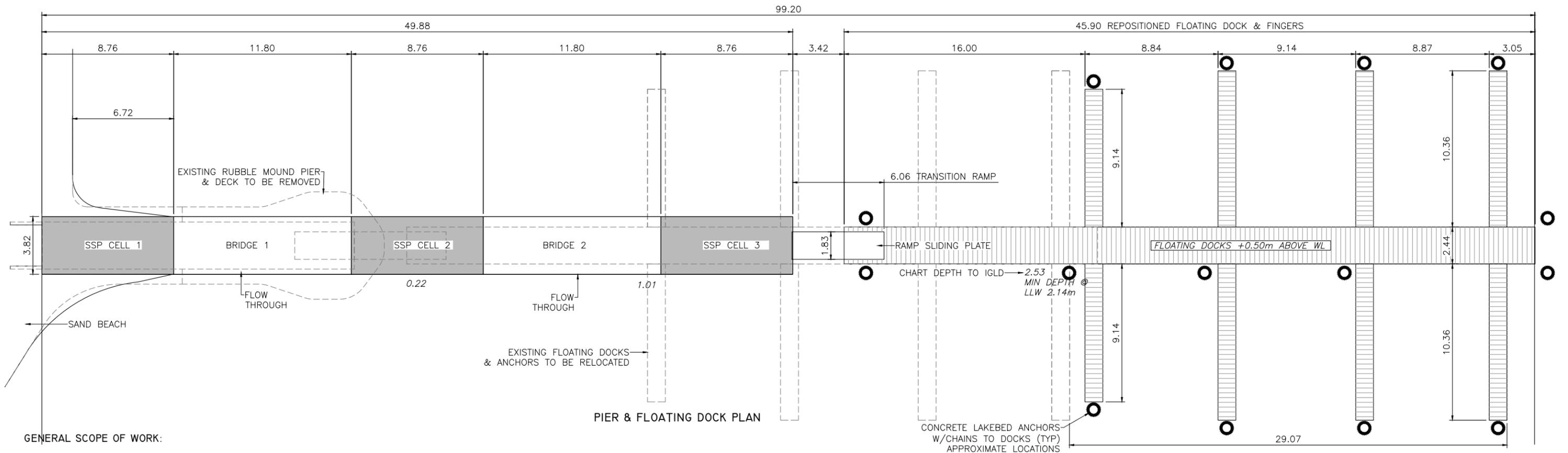
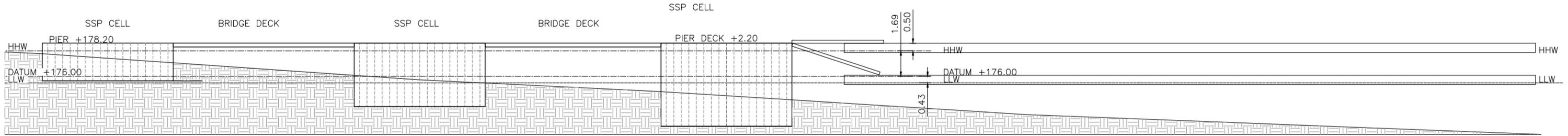
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION
COVER SHEET

Contract	SCALE - UNO	Drawing No.	SHEET	REVISION
PARKS CANADA	1:250	3330-2	0.0	1

PIER & FLOATING DOCK ELEVATION

LAKE HURON WATER LEVELS TO IGLD +176.00
 HIGH: ALL TIME +1.69 (177.69) - APRIL TO OCTOBER +1.69 (177.69) HHW
 LOW: ALL TIME -0.43 (175.57) - APRIL TO OCTOBER -0.39 (175.61) LLW
 ESTIMATED WIND SETUP: 0.30m



GENERAL SCOPE OF WORK:

PROVIDE ALL TOOLS, EQUIPMENT, PLANT, TRANSPORTATION, LABOUR, SUPERVISION, TEMPORARY WORKS, MATERIALS, AND ALL OTHER ITEMS TO SAFELY AND DILIGENTLY PERFORM THE WORK.

1. REMOVE AND RELOCATE OR STORE EXISTING FLOATING DOCKS AND ANCHORS.
2. REMOVE AND STORE EXISTING DOCK RAMP.
3. REMOVE AND DISPOSE THE EXISTING PIER TIMBER DECK.
4. REMOVE AND STORE EXISTING PIER RIP RAP FOR REUSE.
5. REMOVE AND DISPOSE VEGETATION FROM EXISTING PIER.
6. EXCAVATE EXISTING PIER TO NATURAL LAKEBED UNDER BRIDGE 1 AND STORE GRANULAR MATERIAL FOR CELL FILL.
7. DREDGE BOULDERS AND STONE FROM UNDER SSP CELLS TO FACILITATE PILE INSTALLATION.
8. CONFIRM LENGTH, SUPPLY AND INSTALL STEEL SHEET PILE CELLS AS INDICATED.
9. SUPPLY AND INSTALL SSP HARDWARE, CONNECTORS AND FIXTURES AS INDICATED.
10. BACKFILL CELLS WITH STORED AND NEW, AS REQUIRED, COARSE GRANULAR MATERIAL.
11. INSTALL CONDUIT SLEEVE, GRANULAR BASE AND CONCRETE REINFORCING ON CELLS.
12. SUPPLY AND PLACE CONCRETE DECK ON CELLS.
13. INSTALL FLOATING DOCK ANCHORS.
14. POSITION AND INSTALL EXISTING FLOATING DOCKS.
15. INSTALL TRANSITION RAMP.
16. SUPPLY AND INSTALL BRIDGE BEAMS, PRECAST CONCRETE DECK AND HARDWARE.
17. FORM, REINFORCE AND PLACE CONCRETE BRIDGE DECK.
18. INSTALL TIMBER RUB STRIP.

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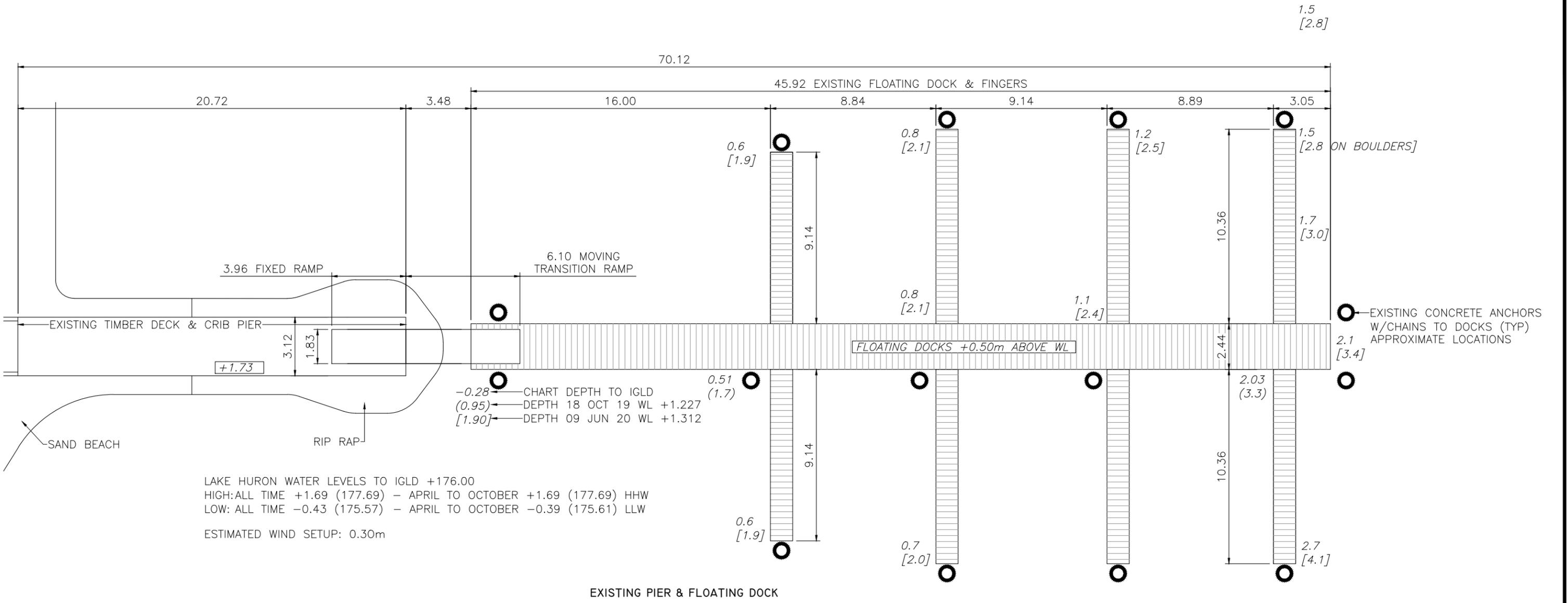
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION
 GENERAL ARRANGEMENT

Contract PARKS CANADA	SCALE - UNO 1:250	Drawing No. 3330-2	SHEET 1.0	REVISION 2
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SCOPE OF WORK – EXISTING DOCK / DEMOLITION CONSTRUCTION:

1. ALL WORK SHALL COMPLY WITH ALL ENVIRONMENTAL REGULATIONS.
2. CONFIRM THE LOCATIONS, CONNECTIONS, DIMENSIONS AND SOUNDINGS ON SITE & NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES.
3. REMOVE AND STORE EXISTING TRANSITION RAMP AND CONNECTIONS FOR REUSE ON THE NEW DOCK.
4. DISCONNECT EXISTING ANCHORS AND CHAINS FROM THE FLOATING DOCKS.
5. RELOCATE EXISTING ANCHORS AND CHAIN TO NEW LOCATIONS.
6. MOVE EXISTING FLOATING DOCKS TO NEW LOCATION AND RECONNECT TO RELOCATED ANCHORS. PROVIDE ADDITIONAL HARDWARE AND CHAIN AS REQUIRED.
7. REMOVE AND DISPOSE EXISTING WOOD DECK AND WOOD RAMP.
8. REMOVE EXISTING RIP RAP AND STORE ON LAND FOR REUSE.
9. REMOVE AND STORE GRANULAR BACKFILL FROM THE EXISTING PIER FOR REUSE AS CELL FILL.
10. RESTORE ALL TEMPORARY STORAGE AREAS.

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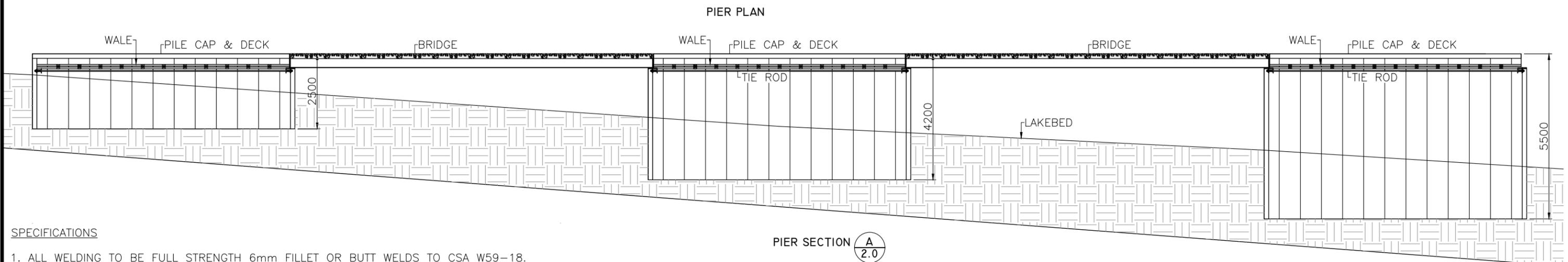
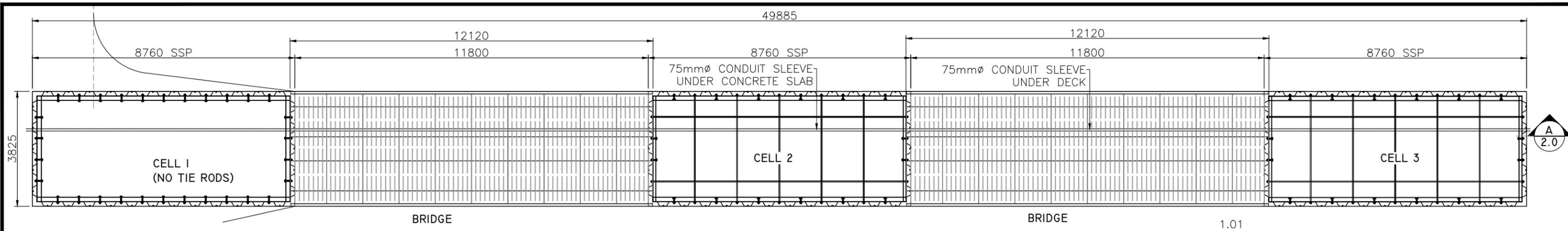
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION
 EXISTING DOCK PLAN

Contract	SCALE - UNO	Drawing No.	SHEET	REVISION
PARKS CANADA	1:200	3330-2	1.1	1



- SPECIFICATIONS**
- ALL WELDING TO BE FULL STRENGTH 6mm FILLET OR BUTT WELDS TO CSA W59-18.
 - STEEL FABRICATION TO CISC HANDBOOK OF STEEL CONSTRUCTION 11TH ED.
 - HSS AND W SECTIONS to CSA G40.21 350W or ASTM A572 GRADE 50.
PLATE & C SECTIONS to CSA G40.21 300W or ASTM A572 GRADE 44.
 - JOINTS AND CONNECTIONS SHALL BE BY WELDING UNLESS INDICATED OTHERWISE.
- STEEL SHEET PILING (SSP) & CELL CONSTRUCTION**
- CONTRACTOR SHALL PROVIDE ALL EQUIPMENT GUIDES AND MATERIALS TO INSTALL THE PILES AND CELLS AS INDICATED.
 - CLEAR THE LAKEBED OF OBSTRUCTIONS & BOULDERS THAT MAY INTERFERE WITH INSTALLATION
 - PILES ARE TO BE DRIVEN TO REFUSAL ON BEDROCK OR TO DEPTHS INDICATED.
 - PILES ARE TO BE POSITIONED WITHIN 25mm OF THE LOCATIONS INDICATED AND LINKED TOGETHER IN FULL CELLS PRIOR TO FINAL DRIVING. CONTRACTOR SHALL PERFORM ANY ADDITIONAL WORK REQUIRED TO ADJUST CONSTRUCTION AND BRIDGE COMPONENTS TO FIT AS A RESULT OF PILES INSTALLED OUT OF POSITION AT NO ADDITIONAL COST TO THE OWNER.
 - PILES ARE TO BE CUT OFF TO ELEVATIONS INDICATED. PILES AT ENDS OF CELLS SHALL BE DRIVEN FULL SUPPLIED LENGTH.
 - CUT 36mmØ HOLES IN PILES FOR TIE RODS & WALE BOLTS.
 - INSTALL PILE CAPS, PLATES, WALES AND TIE RODS, SUPPORT TIE RODS PRIOR TO BACKFILLING
 - BACKFILL WITH APPROVED STORED GRANULAR AND IMPORTED GRANULAR MATERIAL, IF REQUIRED, EVENLY ACROSS THE CELLS
 - INSTALL CONDUIT SLEEVE
 - INSTALL GRANULAR FILL TO UNDER SLAB LEVEL AND COMPACT TO 150kPa BEARING CAPACITY
 - INSTALL REBAR AND PLACE PROTECT AND CURE CONCRETE.

COMPONENT						
Part	Item	Description	Mat'l	Size	Quantity	Notes
SSP-1	STEEL SHEET PILE	ROLL FORM S80 or EQ S=528cm ³ /m, T=8.0mm	350W/GR 50	2.5, 4.2 & 5.5m		W/Roll Form S Pile Cap
W-1	Side SSP WALES	2-C130x13 (C5x9)	300W	8460x2	50.76m	
W-2	End SSP WALES	2-C130x13 (C5x9)	300W	3525x2	21.15m	
TR-1	TIE ROD	32mmØ Threaded Tie Rod	300W	32Ø x 3650	10	W/Washers & Nuts & Plate on outside
TR-2	TIE ROD	32mmØ Threaded Tie Rod	300W	32Ø x 8600	4	W/Washers & Nuts & Plate on outside
WB-1	WALE BOLT	Bolt W/Plate Nut & 2 Washers	A325	32x200 (1¼"x8")	92	W/100x120x12.7 Plate on inside
	CONCRETE	DECK CONCRETE	CSA C-2			

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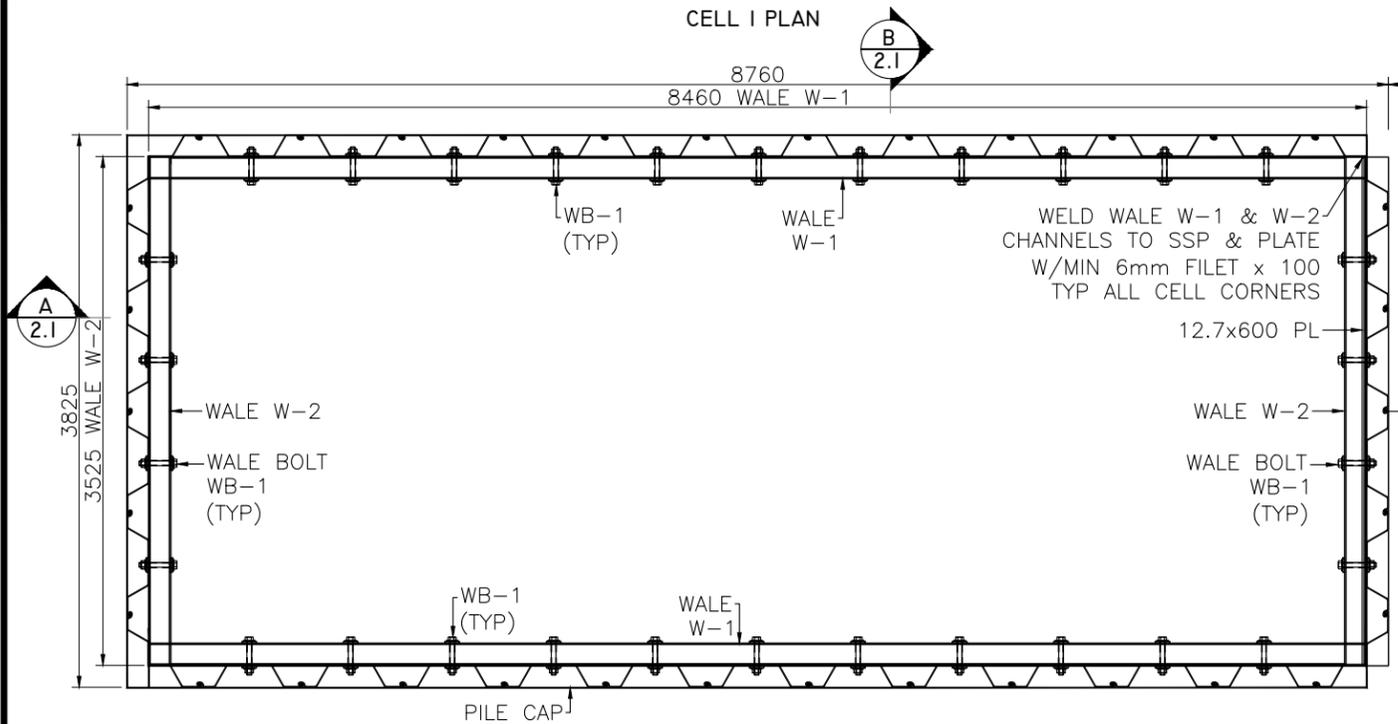
BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION
PIER PLAN & SECTION

Contract	SCALE - UNO	Drawing No.	SHEET	REVISION
PARKS CANADA	1:125	3330-2	2.0	1

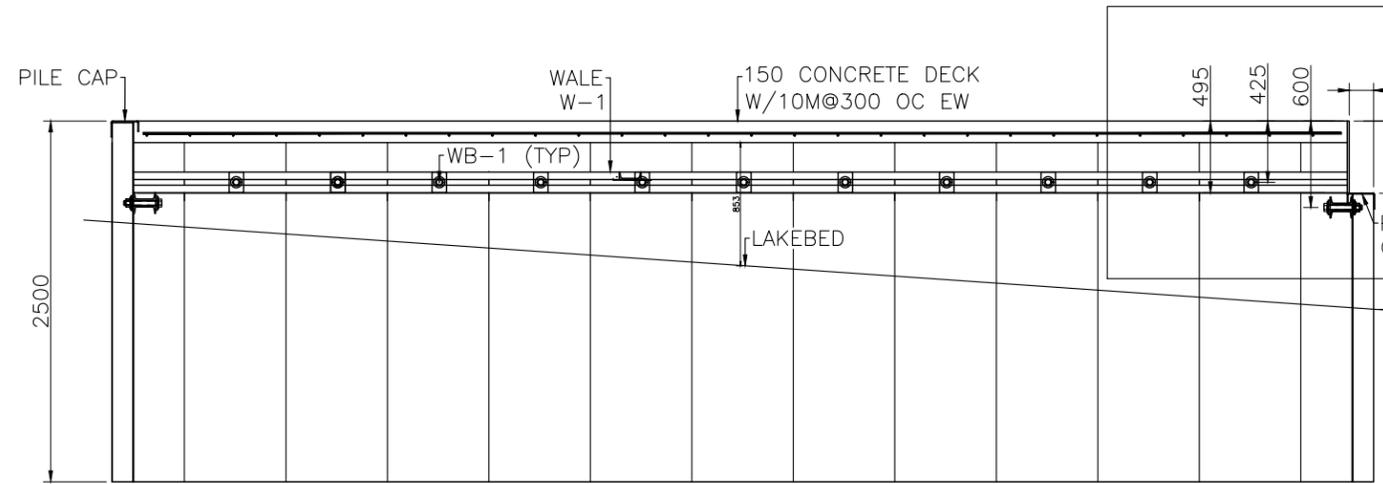
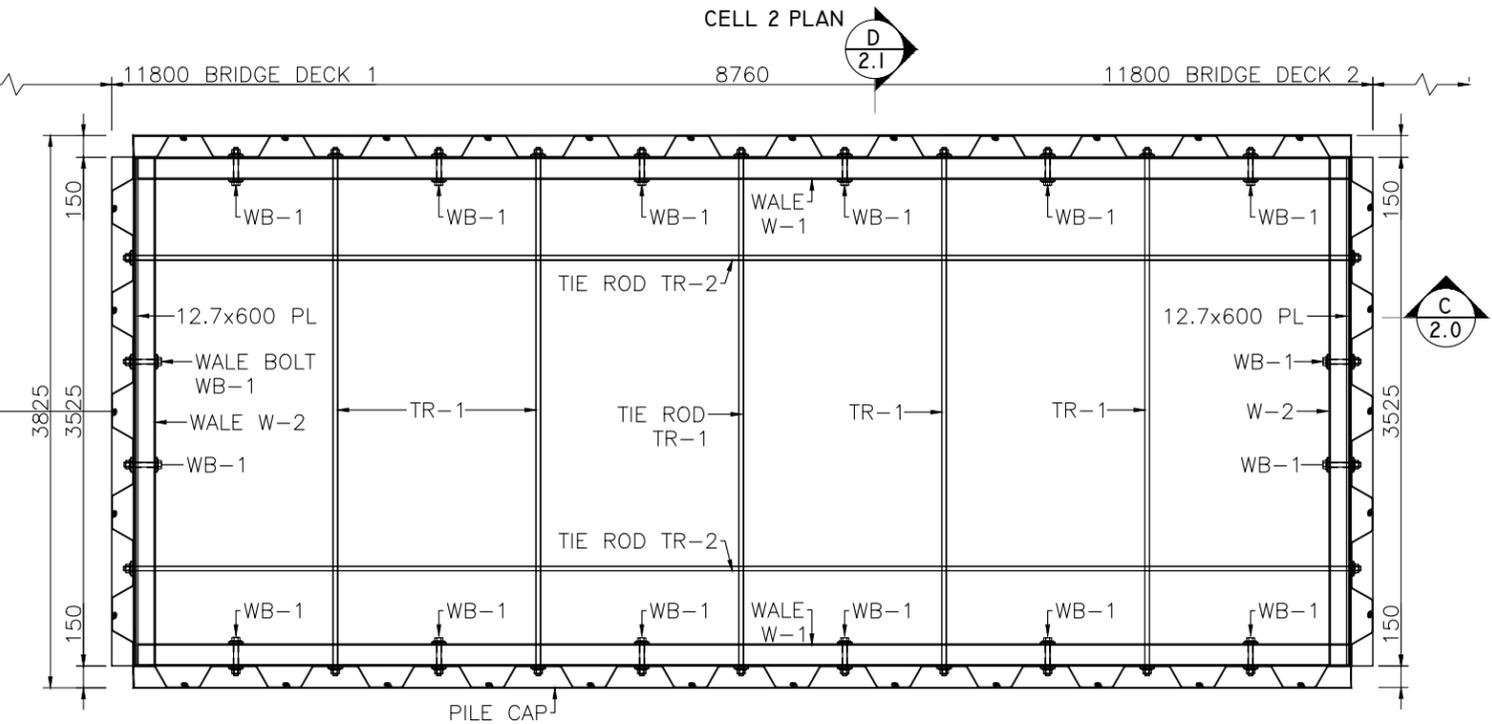
SECTION DESIGNATION
SHEET # WHERE SECTION IS SHOWN

SECTION DESIGNATION
SHEET # WHERE SECTION IS FROM

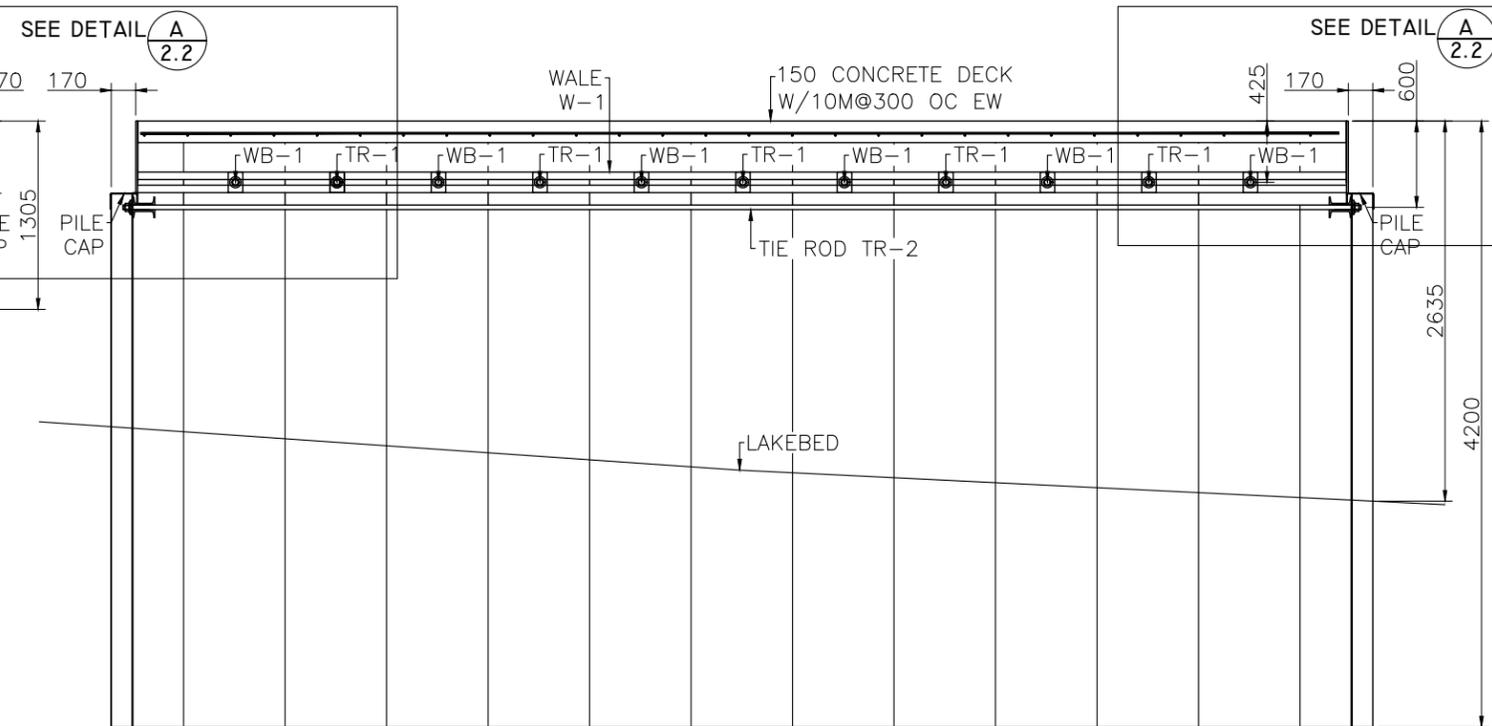
CELL I PLAN



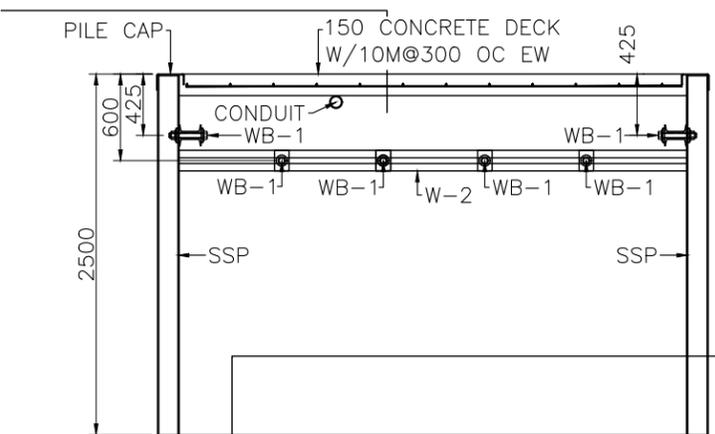
CELL 2 PLAN



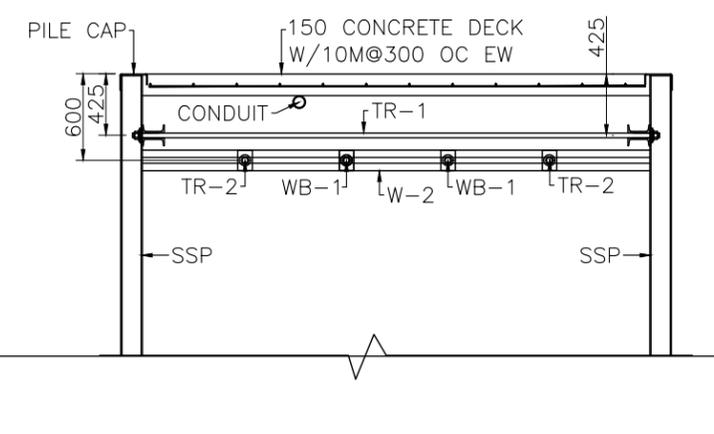
CELL I SECTION A 2.1



CELL 2 SECTION C 2.1



CELL I SECTION B 2.1



CELL 2 & 3 SECTION D 2.1 D 2.2

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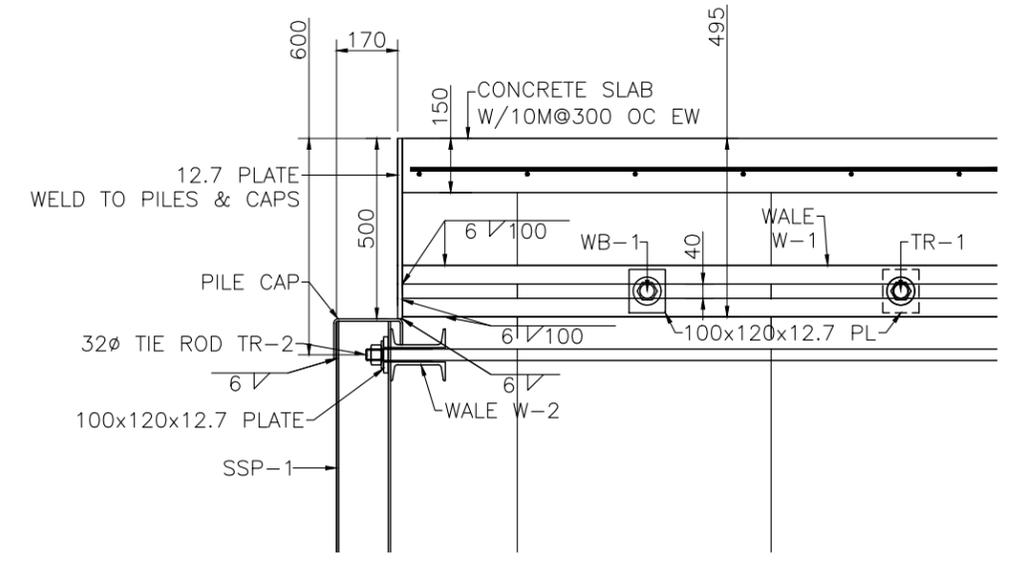
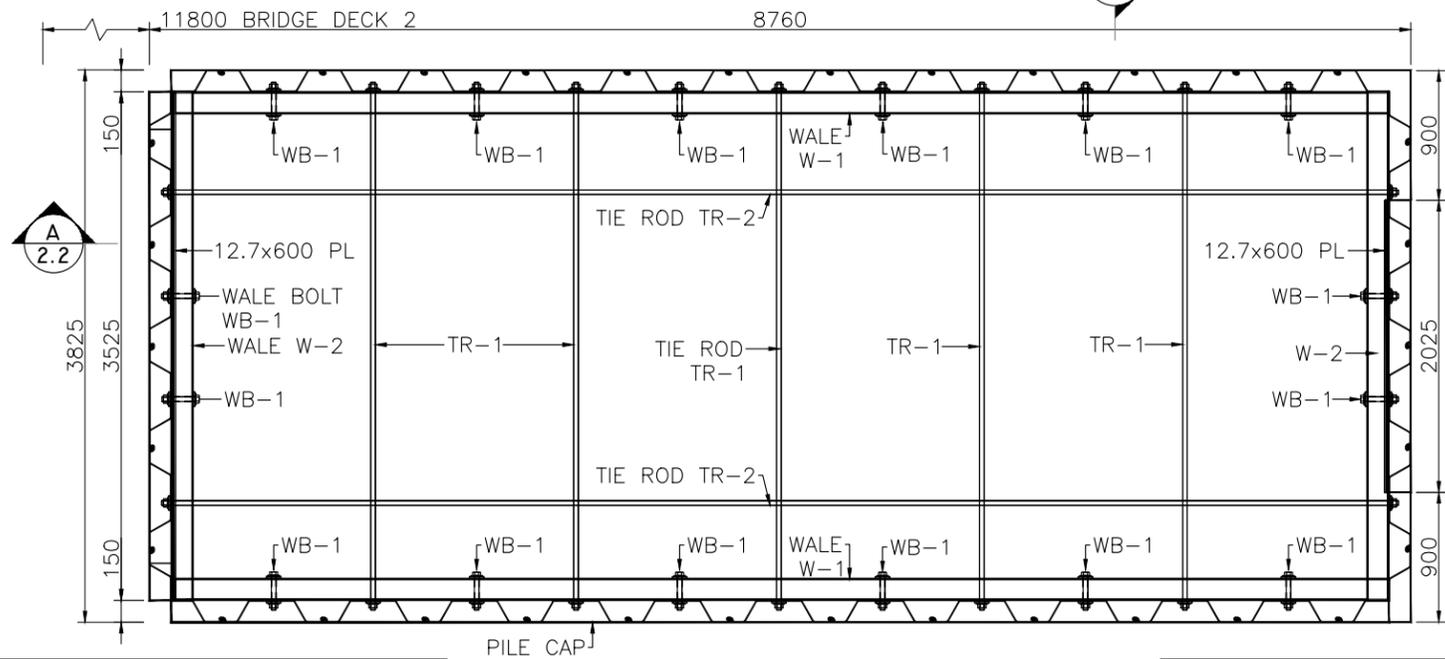
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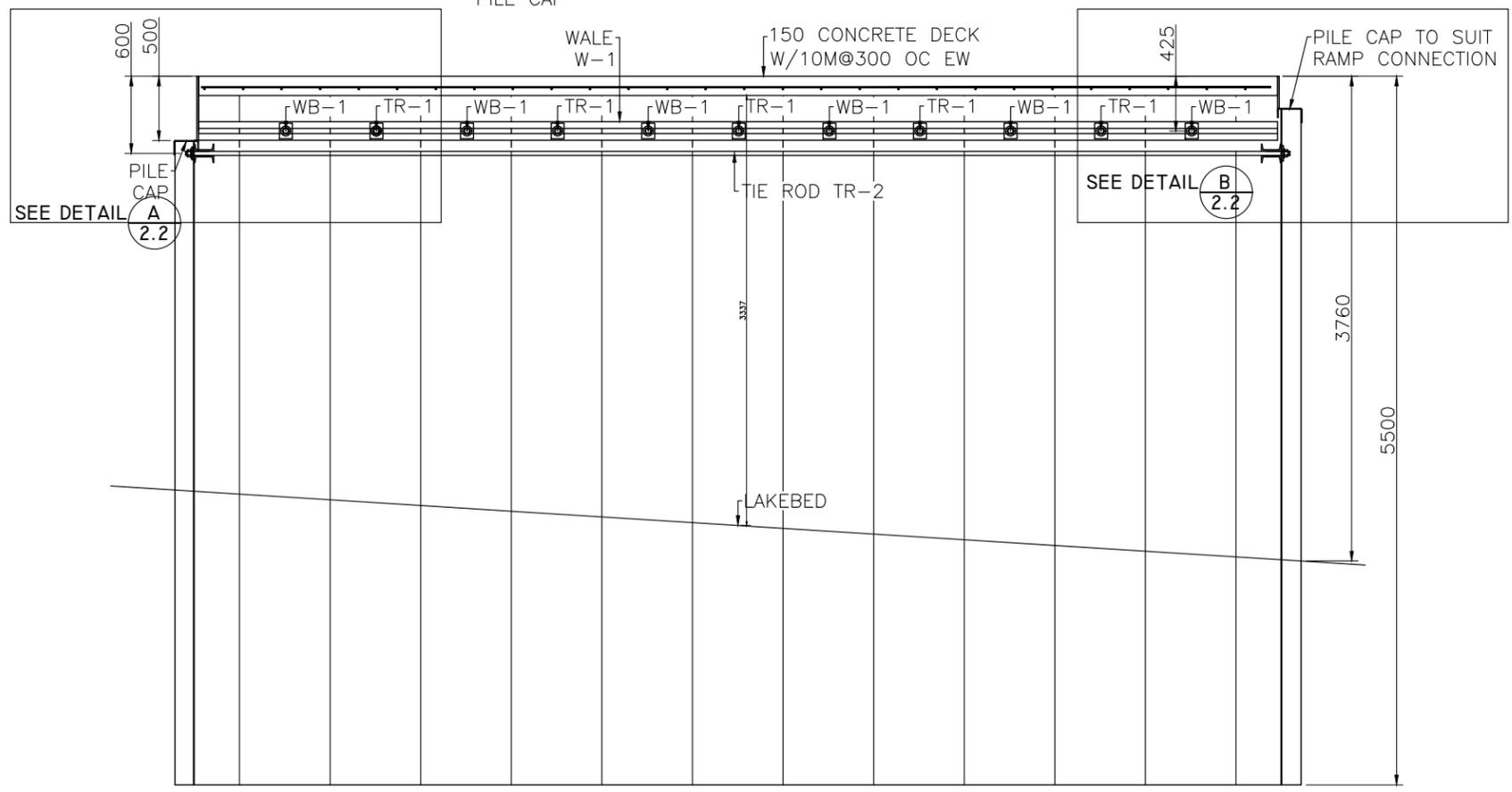
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CELL 1 & 2 PLANS & SECTIONS

Contract	SCALE - UNO	Drawing No.	SHEET	REVISION
PARKS CANADA	1:50	3330-2	2.1	1

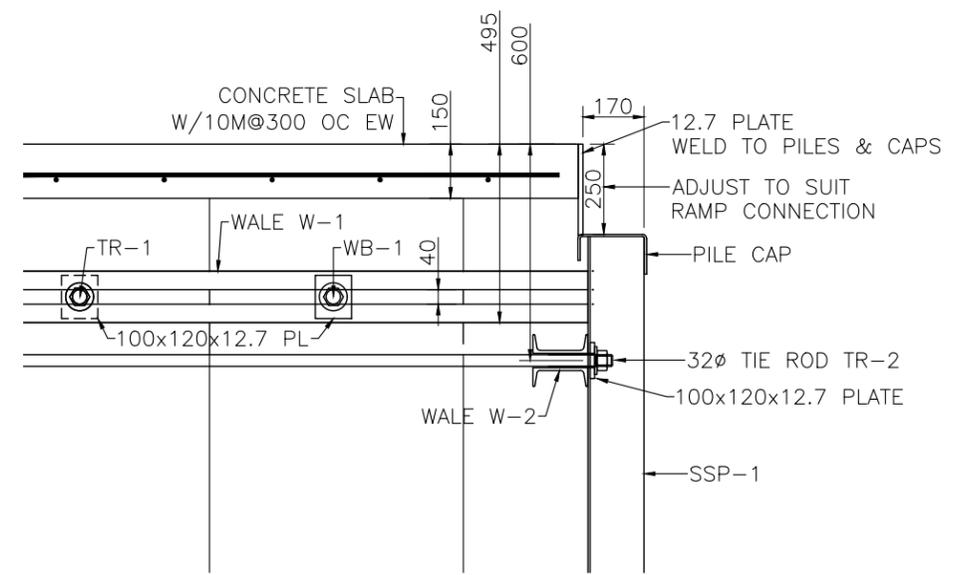
CELL 3 PLAN



DETAIL A
1:20



CELL I SECTION A
2.2



DETAIL B
1:20

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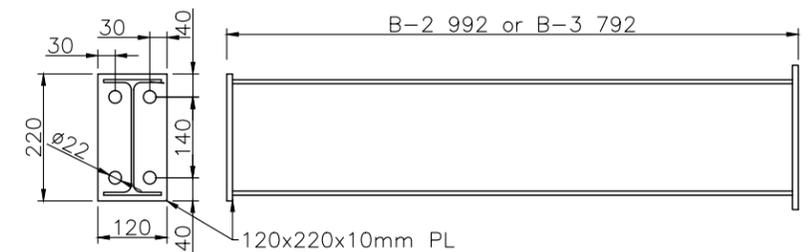
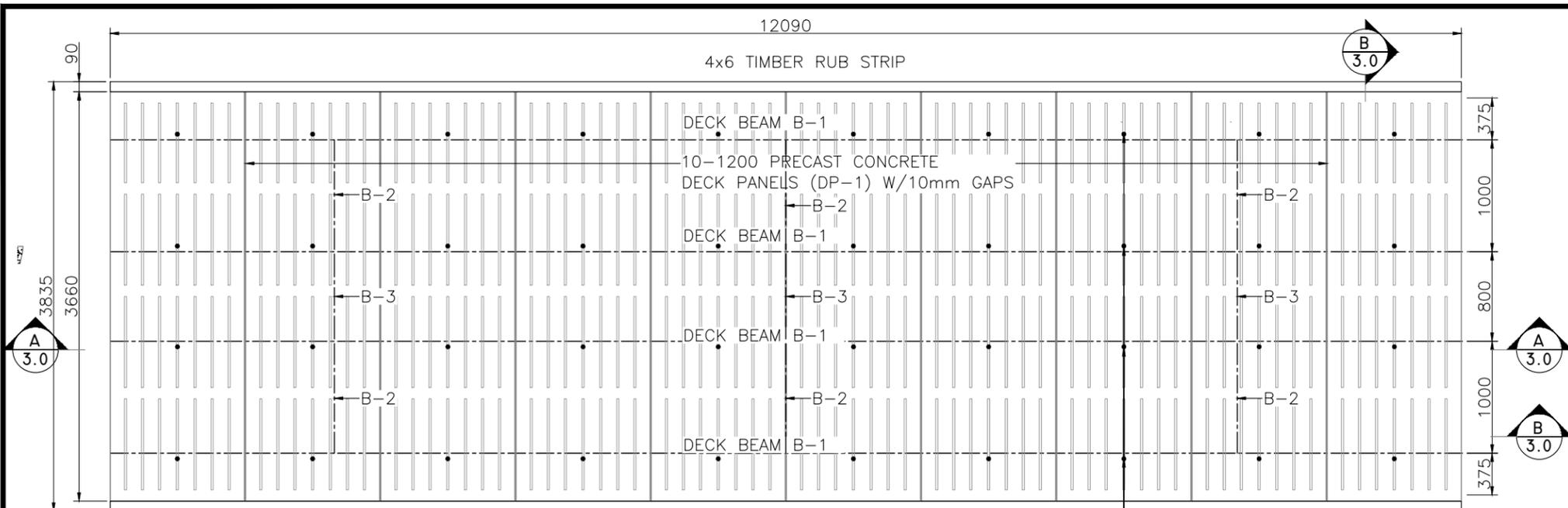
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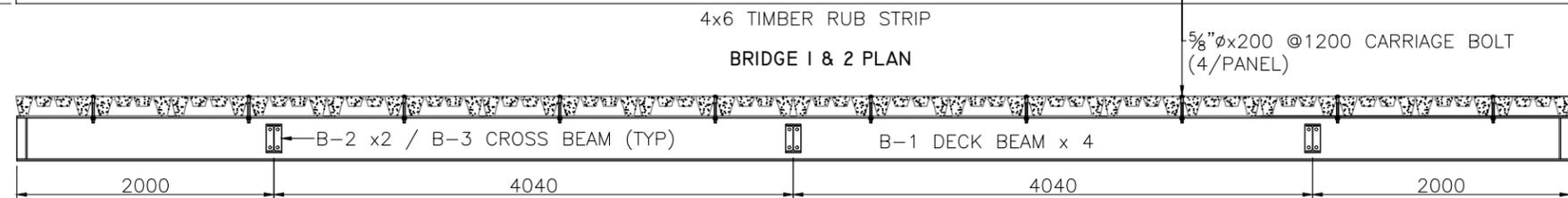
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BEAUSOLEIL ISLAND TOBEY DOCK RECONSTRUCTION
CELL 3 PLAN & SECTIONS

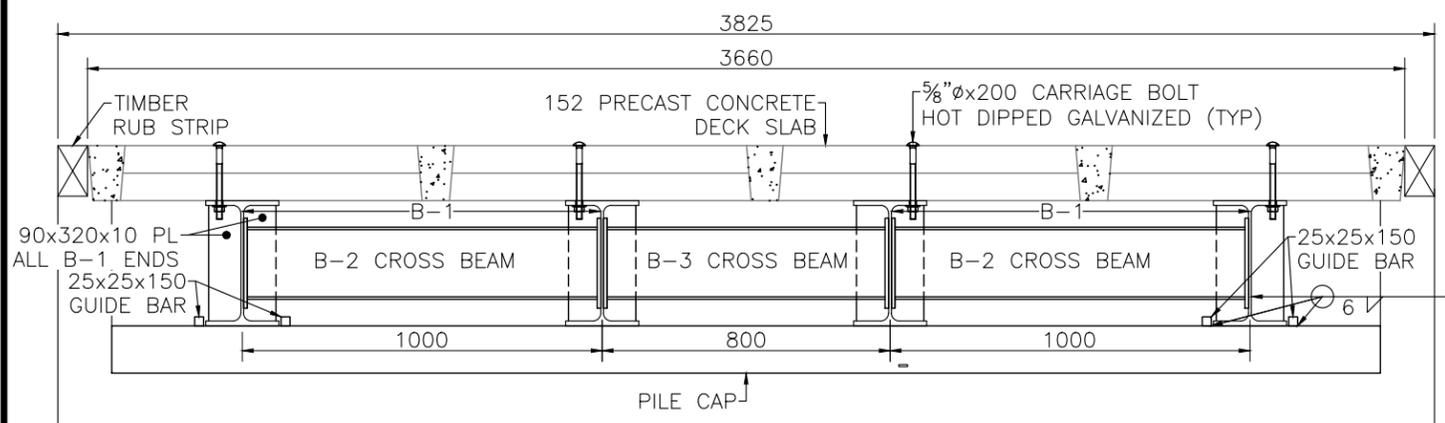
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PARKS CANADA	1:50	3330-2	2.2	1



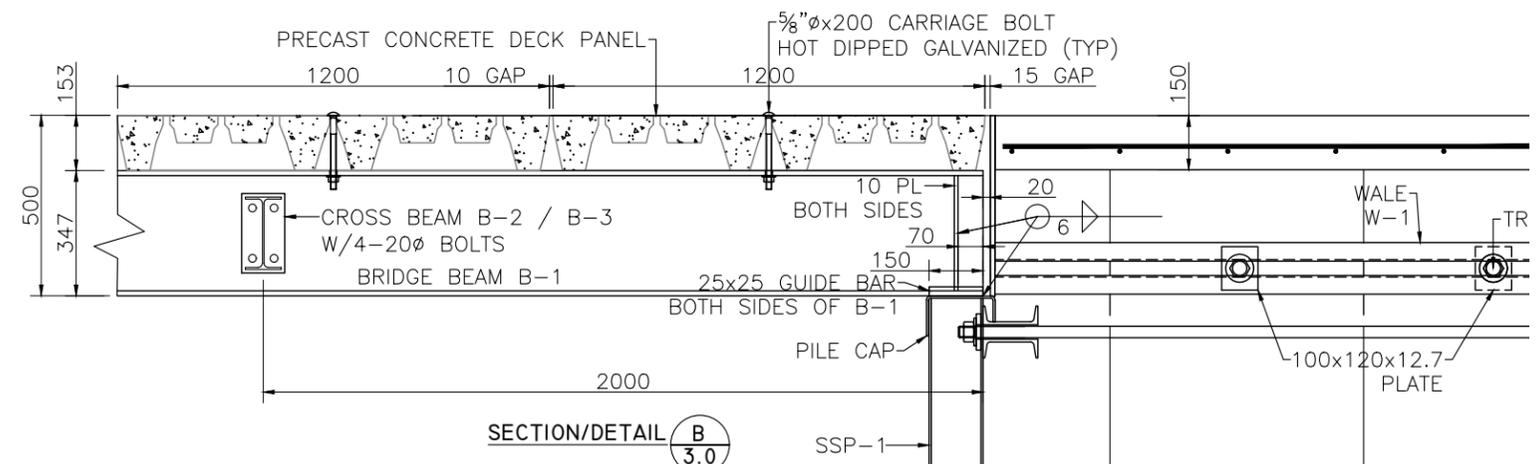
CROSS BEAM DETAIL



SECTION A 3.0



SECTION A 3.0



SECTION/DETAIL B 3.0

COMPONENT

Part	Item	Description	Mat'l	Size	Quantity	Notes
B-1	BRIDGE BEAM	W360x64	350A	12080	8	W/10mm Stiffener Plates @ Ends
B-2	CROSS BEAM	W200x19	350A	972	12	W/120x220x10mm END PLATES
B-3	CROSS BEAM	W200x19	350A	772	6	W/120x220x10mm END PLATES
DP-1	DECK PANELS	PRECAST CONCRETE HOG SLATS	68kPa CSA A-1 Concrete	1200x3660x152	10	Manufactured by STUBBES Concrete - FASTENED TO B-1 W/5/8"Øx200 Carriage Bolts
	TIMBER RUB STRIPS	DECK PANEL PROTECTOR	PT GR 1 S-P-F	90x140	4	Fastened to DP-1 W/10Øx150 AB as per HILTI HIT HY100 SYSTEM OR Eq

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BRIDGE PLAN & SECTIONS

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