



Fisheries and Oceans  
Canada

# GIBSONS HARBOUR RECONSTRUCTION GIBSONS

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REFERENCE DRAWINGS:

REFERENCE DRAWINGS					
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11	1 OF 1	GIBSONS LANDING, B.C	WHARF REPAIRS	M6-G22	C77-2



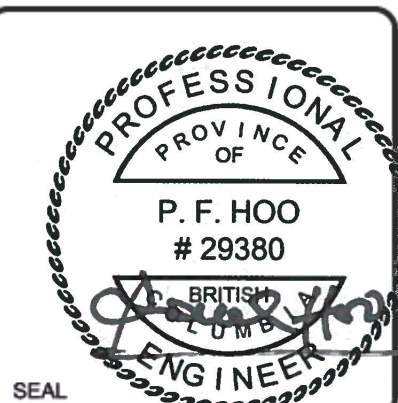
Fisheries and Oceans  
Canada  
Small Craft & Harbours

Mark	Date	Description
03	2020.10.29	PH ISSUE FOR TENDER
02	2019.05.31	PH ISSUE FOR TENDER
01	2019.03.15	PH REVISED AS SHOWN
00	2019.03.14	PH ISSUED FOR CLIENT REVIEW

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
COVER SHEET

Rev:	02	Date:	2019-03-14	Main Project No.:	10381-01
Designed by:	GP	Drawn by:	GE	Reviewed by:	PH
Submitted by:	PAUL HOO	Submitted by:	MOFFATT & NICHOL	Drawing Scale:	1:1 (Metric D)

Drawn by:	GE	Checked by:	PH
Reviewed by:	PH	Submitted by:	PAUL HOO



Sheet  
Reference No.  
**G-001**  
INDEX: 1 OF 13

GIBSON 2019 IMPROVEMENTS SCOPE SUMMARY TABLE

WHARF COMPONENT	BIL ITEM NO.	LOCATION	REPAIR ITEM	SIZE	QUANTITY	LENGTH	REFERENCE PHOTO/SECTION	REFERENCE DRAWING	SPECIAL REPAIR PROCEDURES AND SPECIFICATIONS	SUBMITTAL REQUIREMENTS	
<b>MANDATORY WORK ITEMS</b>											
GENERAL	1	HANDRAILS	PAINT HAND-RAILINGS, INCLUDING ALL TOP RAILS, HANDRAILS, SIDE RAILS, POSTS, AND GUARDRAILS.	CONTRACTOR TO CONFIRM DIMENSIONS	CONTRACTOR TO CONFIRM DIMENSIONS	360M (1180FT)	-	-	DROP CLOTHS ARE TO BE INSTALLED BELOW SURFACES PRIOR TO COMMENCEMENT OF WORK. NO PAINT CHIPS OR DEBRIS TO BE DEPOSITED INTO THE WATER AS REQUIRED BY THE FISHERIES ACT.	SUBMIT PRODUCT DATA AND APPLICATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL.	
	2	DECKING	REMOVE AND REPLACE ASPHALT SURFACING WITH NEW ASPHALT	-	1500M <sup>2</sup>	-	K	S-103	REFER TO MMCD SPECIFICATIONS FOR ASPHALT PAVING.	SUBMIT ASPHALT MIX AND APPLICATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	3	WHARFHEAD	REPAIR CONCRETE WHARF DECKING, INCLUDING FILLING GAPS BETWEEN DECK PANELS, ALONG PILE CAPS, WITH FOAM BACKING ROD AND SIKASIL 728 SL, OR EQUIVALENT	-	-	300M (958FT)	-	L	S-103	INSERT FOAM BACKING ROD IN GAPS OF CONCRETE PANELS AND APPLY SIKASIL 728, OR EQUIVALENT TO SEAL GAPS. ONLY FILL GAPS RUNNING LONGITUDINALLY AT PILE CAP LOCATIONS. FOLLOW MANUFACTURERS INSTRUCTIONS FOR SEALANT APPLICATION.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL
STRINGERS	4	EASTSIDE STRINGER SIDE BENT 28 TO 38	REMOVE AND REPLACE TREATED TIMBER STRINGER	203 X 356MM (8X 14IN)	-	30M (100FT)	I	S-102	REMOVE AND STOCKPILE DECKING FOR REUSE AFTER STRINGER REPLACEMENT. AFTER DECKING IS REMOVED AND STRINGER IS IN PLACE, INSTALL A DRIFT PIN TO SECURE THE STRINGER TO THE PILE CAPS. SPLICE STRINGERS TOGETHER TO FORM CONTINUOUS SPAN.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
PILE CAPS	5	VARIOUS PILE CAPS	REMOVE AND REPLACE TREATED TIMBER PILE-CAPS	356 X 305MM (14 X 12IN)	5 PILE CAPS	SEE SCHEDULE OF LENGTHS ON DRAWING S-102	-	S-102	REMOVE AND STOCKPILE DECKING FOR REUSE AFTER PILE CAP REPLACEMENT. AFTER DECKING IS REMOVED AND PILE CAP IS IN PLACE, INSTALL A DRIFT PIN TO SECURE THE PILE CAP TO THE PILE.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	6	BENT 49 PILE L	REPAIR TREATED TIMBER PILE-CAP, INCLUDING RE-CENTERING PILE-CAP ON PILE	-	1 PILE CAP	-	H	S-102	RECENTRE PILE CAP ONTO PILE AND INSTALL NEW DRIFT PIN TO PREVENT PILE CAP FROM MOVING AGAIN.	SUBMIT PROCEDURES AND FINAL PHOTOGRAPHS OF PILE CAP TO ENGINEER FOR REVIEW AND APPROVAL	
BRACING	7	VARIOUS CROSS BRACING	REMOVE AND REPLACE TREATED TIMBER CROSS-BRACINGS	203 X 152 X 9300MM (8IN X 6IN X 30FT)	8 BRACINGS	9.3M (30FT)	-	S-101	REMOVE AND DISPOSE OF DAMAGED BRACE. SUPPLY TREATED BRACE OF EQUAL SIZE. USE MIN. 25MM (1IN) DIAMETER GALVANIZED BOLT. FOR EXPOSED OLD BOLT LOCATIONS, FILL WITH TIGHT FITTING TREATED PLUG AND COVER WITH 0.8MM THICK COPPER PATCH PLATE, SECURE WITH 38M LONG COPPER OR SILICON BRONZE NAILS AT 30MM O/C ALL AROUND.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	8	BENT 16 PILE C TO BENT 17 PILE C	RESECURE/REPLACE SPLICED HORIZONTAL BRACING SECTION	203 X 152 X 3000MM (8IN X 6IN X 10FT)	1 BRACING	3M (10FT)	F	S-101	REMOVE AND DISPOSE OF DAMAGED BRACE. SUPPLY TREATED BRACE OF EQUAL SIZE. USE MIN. 25MM (1IN) DIAMETER GALVANIZED BOLT. FOR EXPOSED OLD BOLT LOCATIONS, FILL WITH TIGHT FITTING TREATED PLUG AND COVER WITH 0.8MM THICK COPPER PATCH PLATE, SECURE WITH 38M LONG COPPER OR SILICON BRONZE NAILS AT 30MM O/C ALL AROUND.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	9	BENT 25 PILE D	REPAIR TIMBER BRACING, INCLUDING SUPPLY OF NEW HARDWARE TO RE-BOLT BRACINGS TO PILES	MIN. 25MM (1IN) DIAMETER	1 BRACING	-	-	S-101	USE MIN. 25MM (1IN) DIAMETER GALVANIZED BOLT. FOR EXPOSED OLD BOLT LOCATIONS, FILL WITH TIGHT FITTING TREATED PLUG AND COVER WITH 0.8MM THICK COPPER PATCH PLATE, SECURE WITH 38M LONG COPPER OR SILICON BRONZE NAILS AT 30MM O/C ALL AROUND.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	10	BENT 36 PILE A TO BENT 37 PILE A	REMOVE AND REPLACE TREATED TIMBER HORIZONTAL BRACINGS	203 X 152 X 3000MM (8IN X 6IN X 10FT)	1 BRACING	3M (10FT)	-	S-101	REMOVE AND DISPOSE OF DAMAGED BRACE. SUPPLY TREATED BRACE OF EQUAL SIZE. USE MIN. 25MM (1IN) DIAMETER GALVANIZED BOLT. FOR EXPOSED OLD BOLT LOCATIONS, FILL WITH TIGHT FITTING TREATED PLUG AND COVER WITH 0.8MM THICK COPPER PATCH PLATE, SECURE WITH 38M LONG COPPER OR SILICON BRONZE NAILS AT 30MM O/C ALL AROUND.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
BEARING PILES	11	VARIOUS PILES	REMOVE AND REPLACE TREATED TIMBER PILES	SIZE TO MATCH EXISTING PILE	18 PILES	17M (55FT)	-	S-101	SUPPLY AND INSTALL TREATED WOODEN PILE. INSTALL NEW PILE BEFORE DEMOLISHING EXISTING PILE. HARBOUR APPROACH TRESTLE WILL BE CLOSED DURING REPAIRS. CONTRACTOR TO CONFIRM SIZE AND LENGTH OF PILE.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	12	VARIOUS PILES	REPAIR TIMBER BEARING PILE WRAPPING, INCLUDING SUPPLY AND INSTALLATION OF STAINLESS-STEEL BANDS FOR EACH PILE	-	3 PILES	-	G	S-101	APPLY STAINLESS STEEL BANDS AT TOP, MIDDLE, AND CENTRE OF PILE TO SECURE LOOSE PILE WRAPPINGS.	SUBMIT INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	13	BENT 9 PILE C	EXISTING (APPROX.) 1220 X 1220 X 915 MM (4 X 4 X 3 FT) NEW FOOTING DIMENSION 1800 X 1800 X 915 MM (6 X 6 X 3 FT) EXISTING (APPROX.) 1220 X 1220 X 915 MM (4 X 4 X 3 FT) NEW FOOTING DIMENSION 1800 X 1800 X 915 MM (6 X 6 X 3 FT)	1 FOOTING	-	-	B	S-101	CLEAN EXISTING CONCRETE FOOTING OF ALL MARINE GROWTH AND DEBRIS TO ENSURE BOND. DRILL AND INSERT EPOXY GROUTED DOWELS INTO EXISTING FOOTING TO FIX NEW STEEL REINFORCEMENT. FORM NEW FOOTING. SEE DRAWING. IF DIMENSIONS ARE DIFFERENT ON SITE OR REPAIR PROCEDURE NOT VIABLE, FOR SPECIAL SITUATIONS, NOTIFY ENGINEER.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	14	BENT 10 PILE D	REPAIR PILE CONCRETE FOOTING, INCLUDING REINFORCING AND GROUTING EXISTING FOOTINGS	EXISTING (APPROX.) 1220 X 1220 X 915 MM (4 X 4 X 3 FT) NEW FOOTING DIMENSION 1800 X 1800 X 915 MM (6 X 6 X 3 FT)	1 FOOTING	-	-	C	S-101	CLEAN EXISTING CONCRETE FOOTING OF ALL MARINE GROWTH AND DEBRIS TO ENSURE BOND. DRILL AND INSERT EPOXY GROUTED DOWELS INTO EXISTING FOOTING TO FIX NEW STEEL REINFORCEMENT. FORM NEW FOOTING. SEE DRAWING. IF DIMENSIONS ARE DIFFERENT ON SITE OR REPAIR PROCEDURE NOT VIABLE, FOR SPECIAL SITUATIONS, NOTIFY ENGINEER.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL
	15	BENT 11 PILE A	EXISTING (APPROX.) 1220 X 1220 X 915 MM (4 X 4 X 3 FT) NEW FOOTING DIMENSION 1800 X 1800 X 915 MM (6 X 6 X 3 FT)	1 FOOTING	-	-	-	D	S-101	CLEAN EXISTING CONCRETE FOOTING OF ALL MARINE GROWTH AND DEBRIS TO ENSURE BOND. DRILL AND INSERT EPOXY GROUTED DOWELS INTO EXISTING FOOTING TO FIX NEW STEEL REINFORCEMENT. FORM NEW FOOTING. SEE DRAWING. IF DIMENSIONS ARE DIFFERENT ON SITE OR REPAIR PROCEDURE NOT VIABLE, FOR SPECIAL SITUATIONS, NOTIFY ENGINEER.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL
	16	BENT 11 PILE D	REPAIR PILE CONCRETE FOOTING, INCLUDING SUPPLY OF NEW MATERIAL TO FILL UNDERMINED FOOTING	SEE G-003 FOR GRADATION	1 FOOTING	-	-	E	S-101	EXPOSE AND CLEAN ROCK AROUND THE CONCRETE FOOTING. PLACE FILTER STONE IN VOIDS AT FOUNDATION PERIMETER.	SUBMIT TEST DATA TO CONFIRM MATERIAL GRADATION TO ENGINEER FOR REVIEW AND APPROVAL
SLOPED TIMBER SECTION	17	BENT 39 TO 41 PILE ROW A TO C	SUPPLY AND INSTALL NEW PRE-CAST CONCRETE DECK PANEL, INCLUDING THE TOP ASPHALT LAYER	3 X 3M (10 X 10FT)	6 PANELS	-	-	S-103	FOR CONCRETE PANEL FABRICATION REFER TO PUBLIC WORKS OF CANADA DRAWING SET: GIBSON'S LANDING, B.C. WHARF REPAIRS CONCRETE PANELS, SHEETS 1 THROUGH 3. REFER TO MMCD SPECIFICATIONS FOR ASPHALT PAVING.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL. SUBMIT ASPHALT MIX AND APPLICATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	18	BENT 39 TO 41 PILE ROW A TO C	SUPPLY AND INSTALL NEW TREATED TIMBER PILE-CAPS	356 X 305MM (14 X 12IN)	3 PILE CAPS	6.5M (20FT)	-	S-102	AFTER DECKING IS REMOVED AND PILE CAP IS IN PLACE, REFER TO PUBLIC WORKS OF CANADA DRAWING SET: GIBSON'S LANDING, B.C. WHARF REPAIRS CONCRETE PANELS, SHEETS 1 THROUGH 3 TO SEE PILE CAP TO CONCRETE PANEL ASSEMBLY.	SUBMIT SHOP DRAWING, PRODUCT DATA, CONNECTION DETAIL, AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	19	BENT 39 TO 41 PILE ROW A TO C	SUPPLY AND INSTALL NEW TREATED TIMBER BEARING PILE	SIZE TO MATCH EXISTING PILE	9 PILES	17M (55FT)	-	S-101	SUPPLY AND INSTALL TREATED WOODEN PILE. INSTALL NEW PILE BEFORE DEMOLISHING EXISTING PILE. HARBOUR APPROACH TRESTLE WILL BE CLOSED DURING REPAIRS. CONTRACTOR TO CONFIRM SIZE AND LENGTH OF PILE.	SUBMIT PRODUCT DATA AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	
	20	BENT 39 TO 41 PILE ROW A TO C	REMOVE AND DISPOSE OF EXISTING TIMBER RAMP SECTION, INCLUDING ALL CREOSOTE TREATED TIMBER PILES, PILE CAPS, STRINGERS, AND DECKING (TIMBER)	35M <sup>2</sup> (377FT <sup>2</sup> )	11 PILES, 3 PILE CAPS, 7 STRINGERS	-	-	S-101	REMOVE AND STOCKPILE PILE CAPS AND PILES FOR POTENTIAL RE-USE. INSPECT PRIOR TO RE-USE AND NOTIFY ENGINEER OF CONDITION.	-	
<b>OPTION WORK ITEMS</b>											
GENERAL	20	HANDRAILS	REMOVE AND REPLACE HANDRAILS, INCLUDING ALL TOP RAILS, HANDRAILS, SIDE RAILS, AND GUARDRAILS	CONTRACTOR TO CONFIRM DIMENSIONS	CONTRACTOR TO CONFIRM DIMENSIONS	360M (1180FT)	-	-	REMOVE AND DISPOSE OF DAMAGED RAILINGS. SUPPLY TREATED RAILINGS OF EQUAL SIZE. DROP CLOTHS ARE TO BE INSTALLED BELOW SURFACES PRIOR TO COMMENCEMENT OF WORK. NO PAINT CHIPS OR DEBRIS TO BE DEPOSITED INTO THE WATER AS REQUIRED BY THE FISHERIES ACT.	SUBMIT PRODUCT DATA, INSTALLATION, AND APPLICATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL.	
TIMBER WAVE WALL	21	REFER TO PHOTOGRAPH FOR LOCATIONS	INSTALL NEW HOT DIPPED GALVANIZED STEEL PLATES OVER TIMBER WAVE WALE	STEEL PLATE (TYPICAL) 2110 X 1210 X 19MM (83 X 48 X 0.4IN) C-CHANNEL PLATE C100 X 11	STEEL PLATES: 9 C-CHANNELS: 27	C-CHANNEL PLATES: 1210MM (48IN)	M, N	S-105	REMOVE AND DISPOSE OF CURRENT TIMER PALETS. INSTALL HOT DIPPED GALVANIZED STEEL PLATES INTO PLACE AND INSURE PLATE IS HELD AGAINST THE BOTTOM TIMBER MEMBER AND CONCRETE WALL FIRMLY.	SUBMIT SHOP DRAWINGS AND INSTALLATION PROCEDURES TO ENGINEER FOR REVIEW AND APPROVAL	

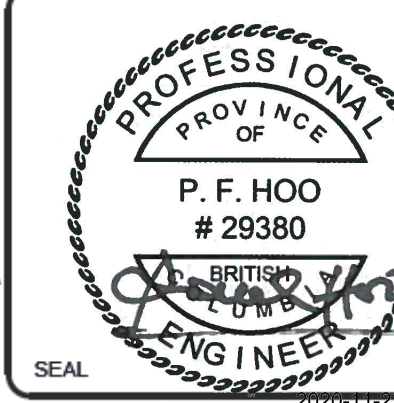
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Age		Age		Age	
Mark		Mark		Mark	
Issue for Tender		Issue for Tender		Issue for Tender	
Issued for Client Review		Issued for Client Review		Issued for Client Review	

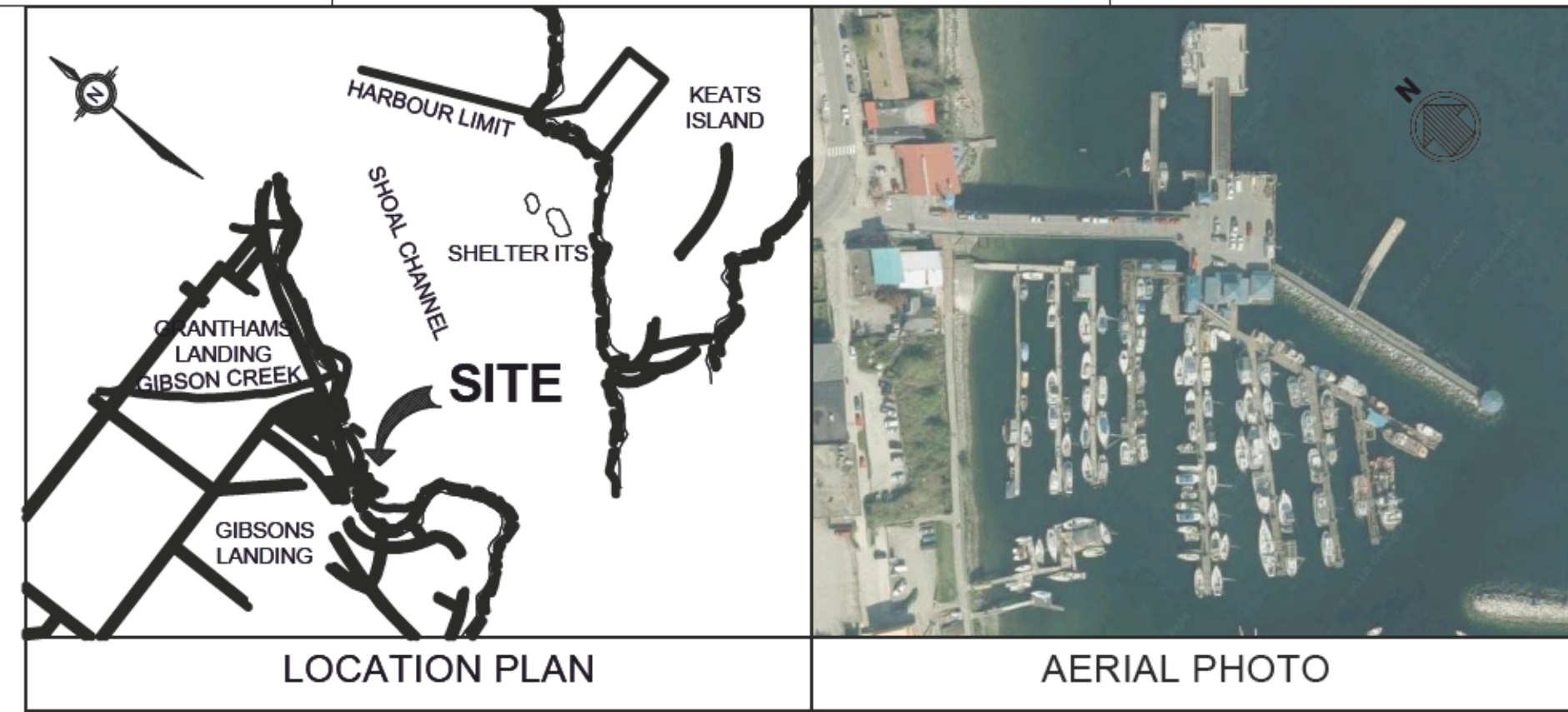
FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION

GIBSONS HARBOUR RECONSTRUCTION  
SUMMARY SHEET

Rev:	01	Date:	2019-03-14	M&M Project No.:	10381-01
Drawn by:	GP	Checked by:	PH	Drawn code:	
Designed by:	GP	Drawn by:	GE	Reviewed by:	PH
Submitted by:	PAUL HOO	Submitted by:	PAUL HOO	Submitted by:	PAUL HOO
Scale:	1:1 (Metric)	Scale:	1:1 (Metric)	Scale:	1:1 (Metric)

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LOCATION PLAN

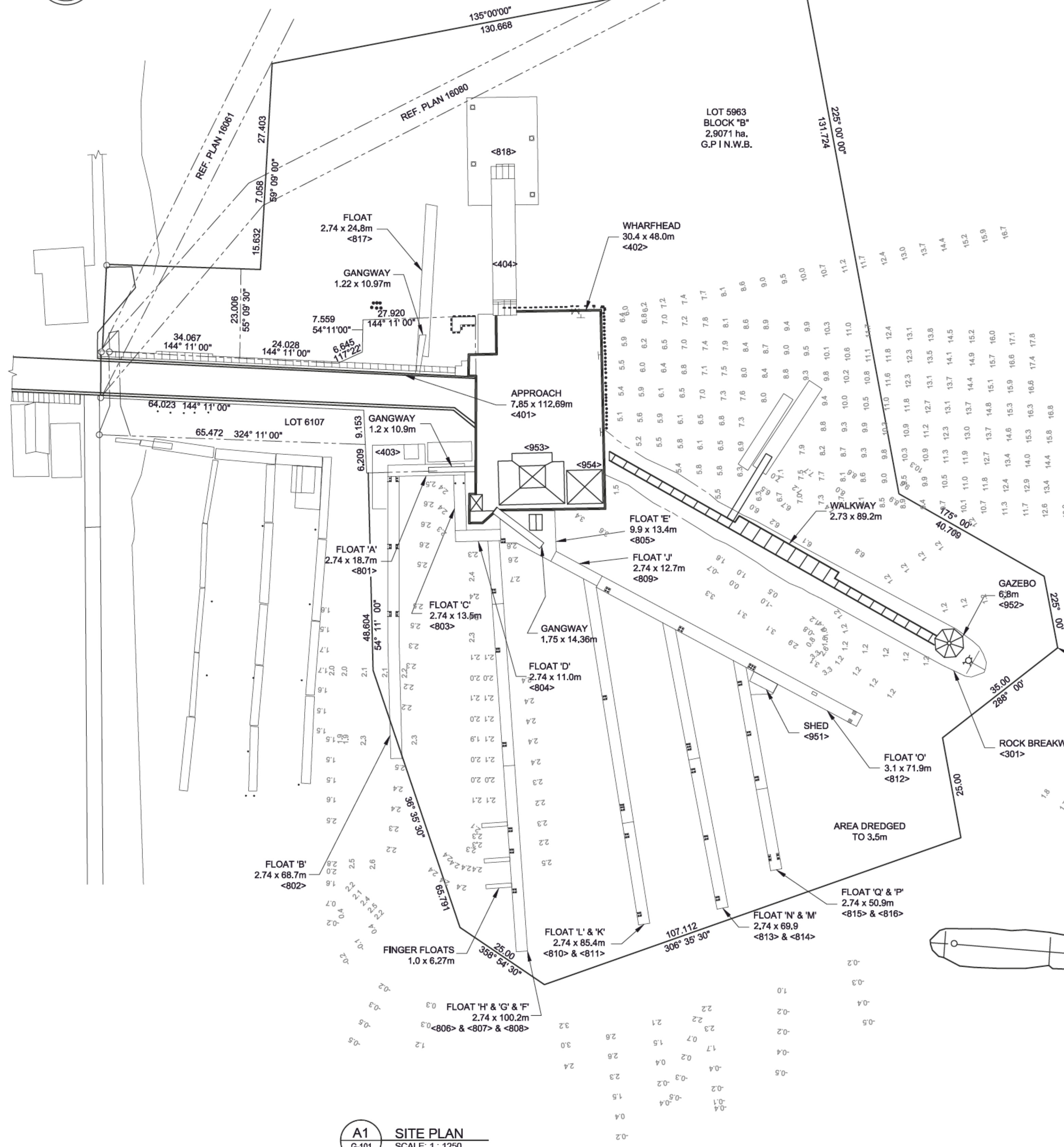
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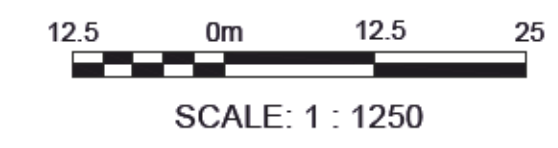
WATER LOT BOUNDARY

**NOTE:**

1. DEPTH SOUNDINGS REFERENCE - PUBLIC WORKS DRAWING - PROJECT 036957 - DREDGE SECTIONS 'A', 'B', AND 'C' AND FLOAT LAYOUT
2. BASE PLAN EXTRACTED FROM FISHERIES AND OCEAN CANADA SMALL CRAFT HARBOUR, DRAWING 001
3. DEPTH SOUNDINGS ARE REFERENCES TO CHART DATUM



**A1** SITE PLAN  
SCALE: 1 : 1250



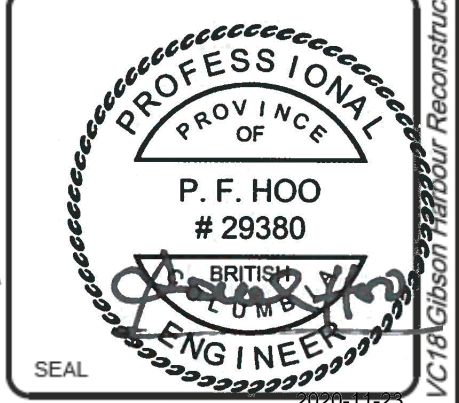
Rev	Date	By	Description
01	2019.03.14	PH	ISSUE FOR TENDER
00	2019.03.14	PH	ISSUED FOR CLIENT REVIEW

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION

GIBSONS HARBOUR RECONSTRUCTION  
SITE PLAN

Designed by:	GP	Date:	2019-03-14	Rev:	01
Drawn by:	GE	MAN Project No.:	10391-01		
Checked by:	PH	Drawing code:			
Reviewed by:	PH	Drawing Scale:	1:1 (Metric D)		
Submitted by:	PAUL HOO MODFATT & NICHOL	Post scale:			

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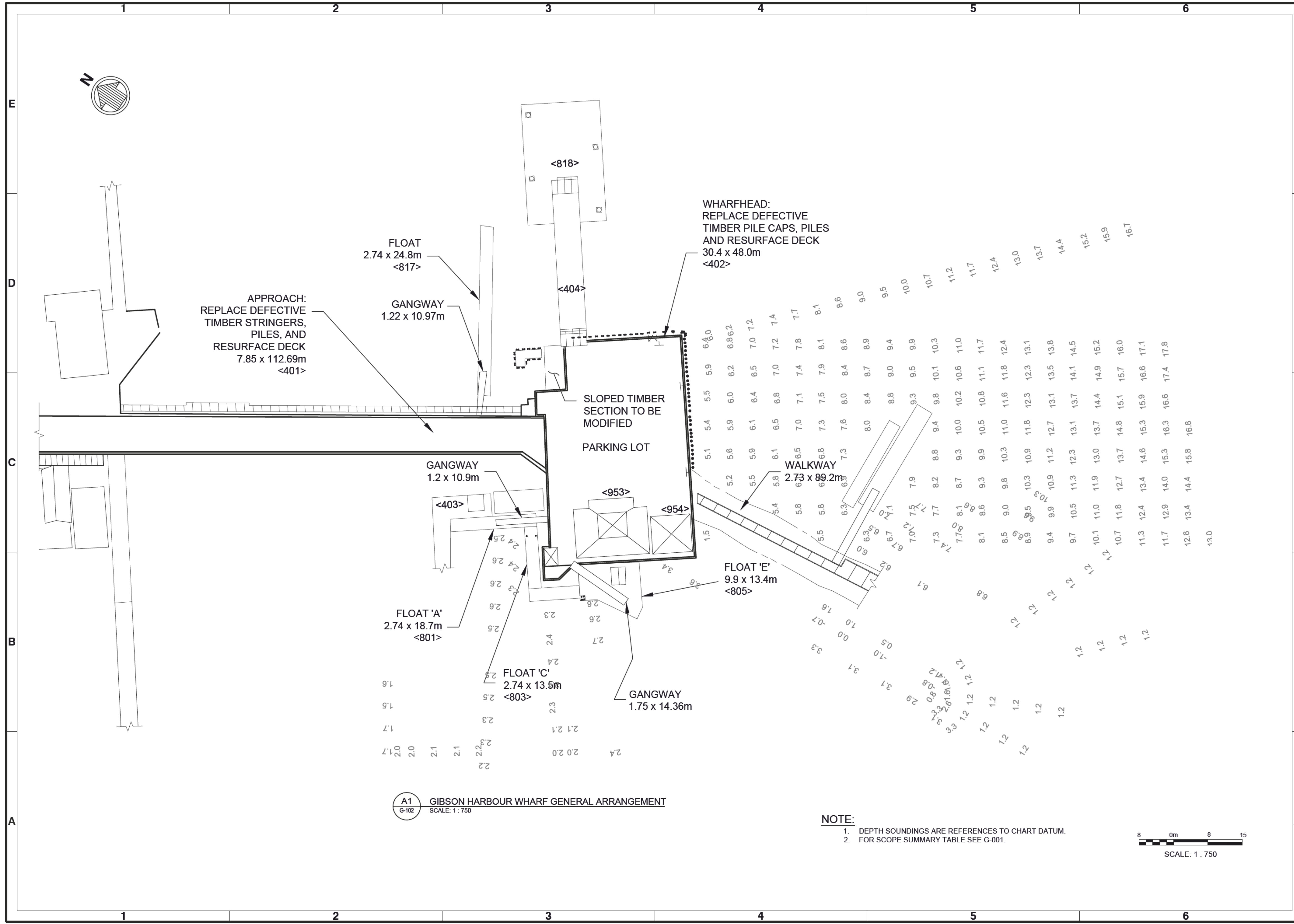
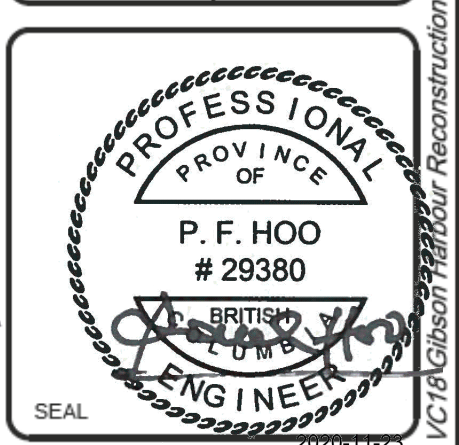


Sheet Reference No.  
**G-101**  
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00	2019.03.14	PH

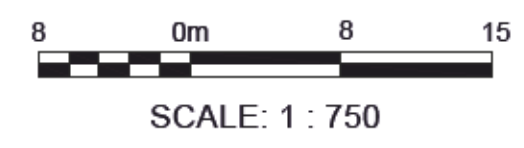
FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
GENERAL ARRANGEMENT

Rev	Date	By	Checked	Submitted	For Scale
01	2019-03-14	GP	PH	PH	1:1 (Metric D)



**A1**  
GIBSON HARBOUR WHARF GENERAL ARRANGEMENT  
SCALE: 1 : 750

- NOTE:**
- DEPTH SOUNDINGS ARE REFERENCES TO CHART DATUM.
  - FOR SCOPE SUMMARY TABLE SEE G-001.



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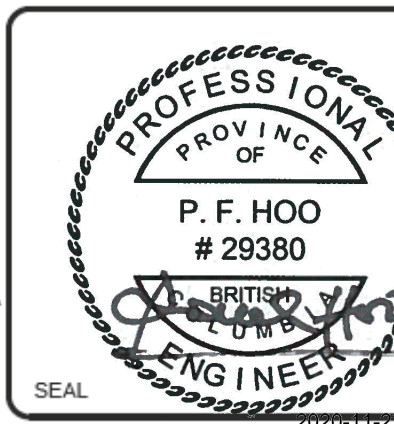
Rev.	Date	PH	PH	PH
01	2019.03.14	ISSUE FOR TENDER		
00	2019.03.14	ISSUED FOR CLIENT REVIEW		

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION

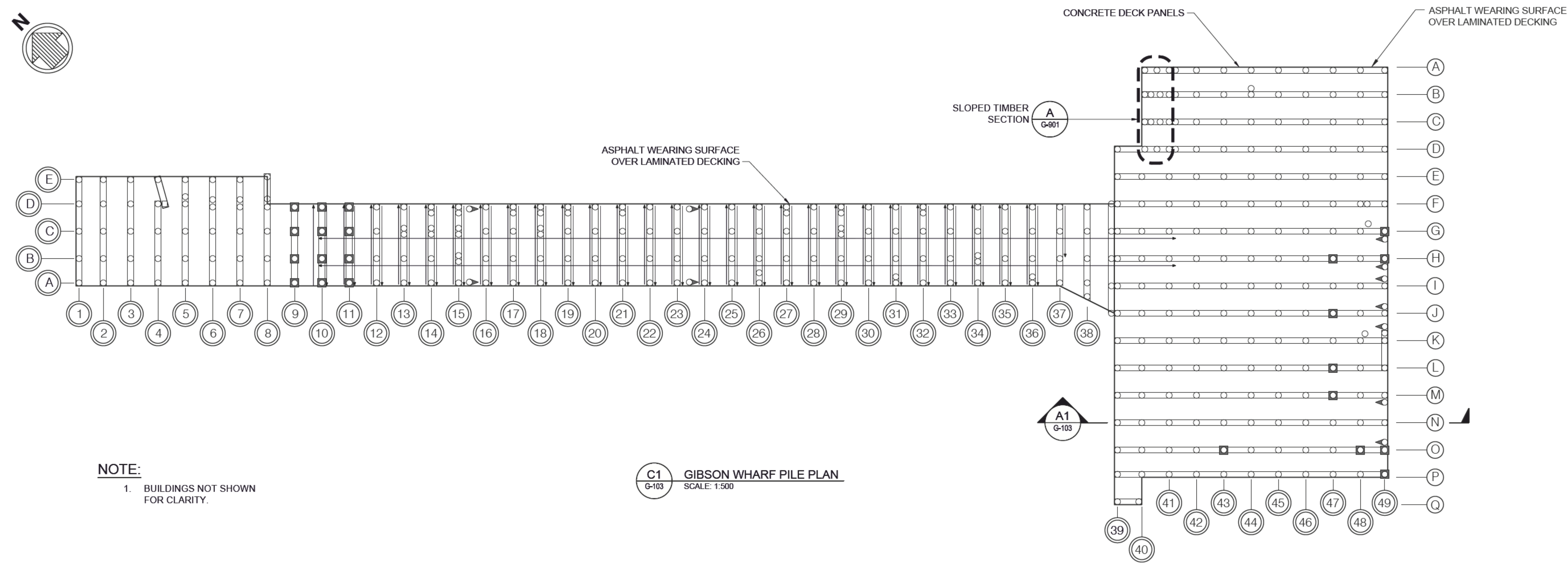
GIBSON HARBOUR RECONSTRUCTION  
EXISTING CONDITIONS -  
PILE PLAN AND ELEVATION

Designed by:	GP	Drawn by:	GE	Reviewed by:	PH	Submitted by:	PAUL HOO MOFFATT & NICHOL
Date:	2019-03-14	MAN Project No.:	10381-01	Drawing code:		Drawing Scale:	1:1 (Metric D)

Rev.	01
Date:	2019-03-14
MAN Project No.:	10381-01
Drawing code:	
Drawing Scale:	1:1 (Metric D)

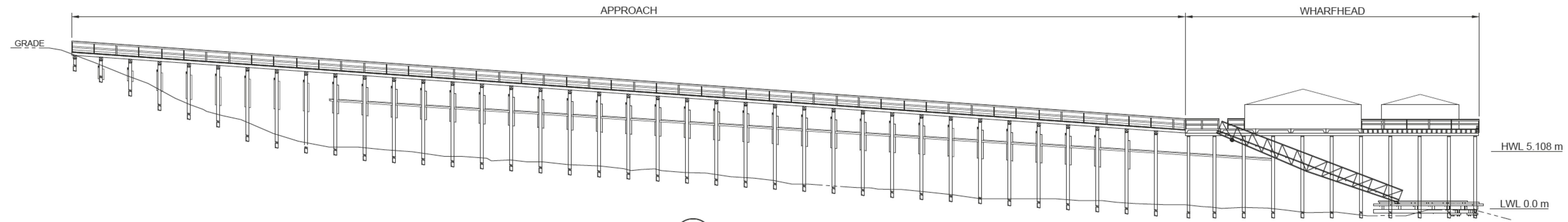


Sheet Reference No.  
**G-103**  
INDEX: 5 OF 13

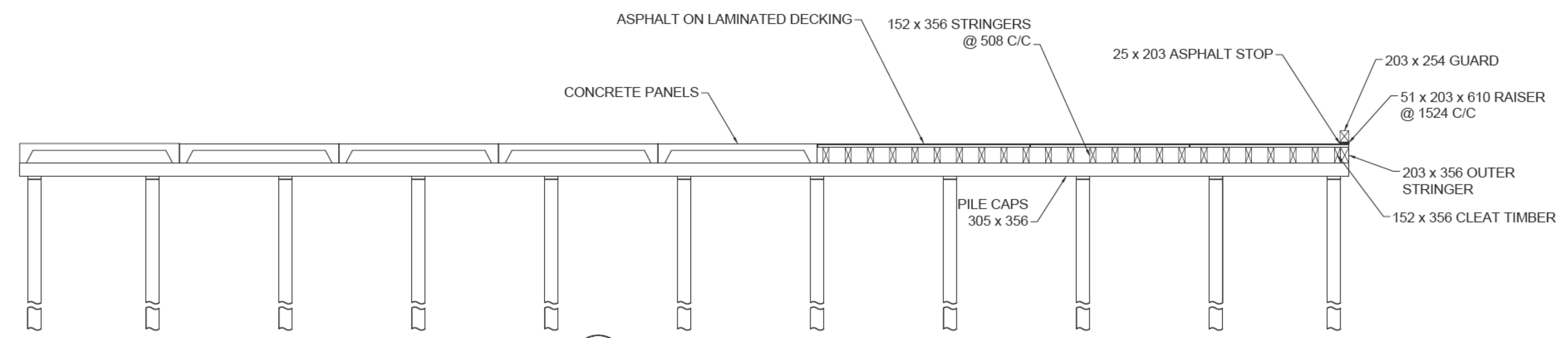


**NOTE:**  
1. BUILDINGS NOT SHOWN FOR CLARITY.

**C1** GIBSON WHARF PILE PLAN  
SCALE: 1:500



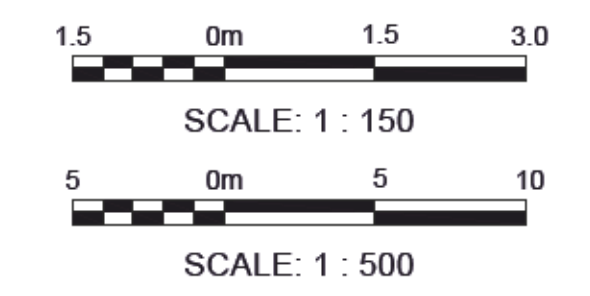
**B1** WHARF SECTIONAL ELEVATION  
SCALE: 1:500



**A1** TYPICAL WHARF HEAD SECTION - ROW N  
SCALE: 1:150

**LEGEND:**

- SQUARE TIMBER PILE
- TIMBER PILE
- TIMBER PILE WITH CONCRETE FOOTING
- ⬇ BATTER PILE (ARROW POINTING DOWNWARD)
- ↙ DIAGONAL BRACE (ARROW POINTING DOWNWARD)
- ↔ HORIZONTAL BRACE
- ⊗ BENT NO.



Mark	Description	Date	Appr.
01	ISSUE FOR TENDER	2019.03.14	PH
00	ISSUED FOR CLIENT REVIEW	2019.03.14	PH

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION

GIBSONS HARBOUR RECONSTRUCTION  
EXISTING CONDITION - PHOTOGRAPHS  
(1 OF 2)

Designed by:	GP	Date:	2019-03-14	Rev:	01
Drawn by:	GE	MMH Project No.:	10381-01	Drawn by:	PH
Reviewed by:	PH	Drawing code:		Submitted by:	PAUL HOO
		Posting Scale:	1:1 (Metric D)	Submitted by:	MOFFATT & NICHOL

SEAL

Sheet Reference No.  
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**A**  
SLOPED TIMBER SECTION  
G-103  
NTS



**B**  
CONCRETE FOUNDATION WITH SPALLING (PILE 9-C)  
S-101  
NTS



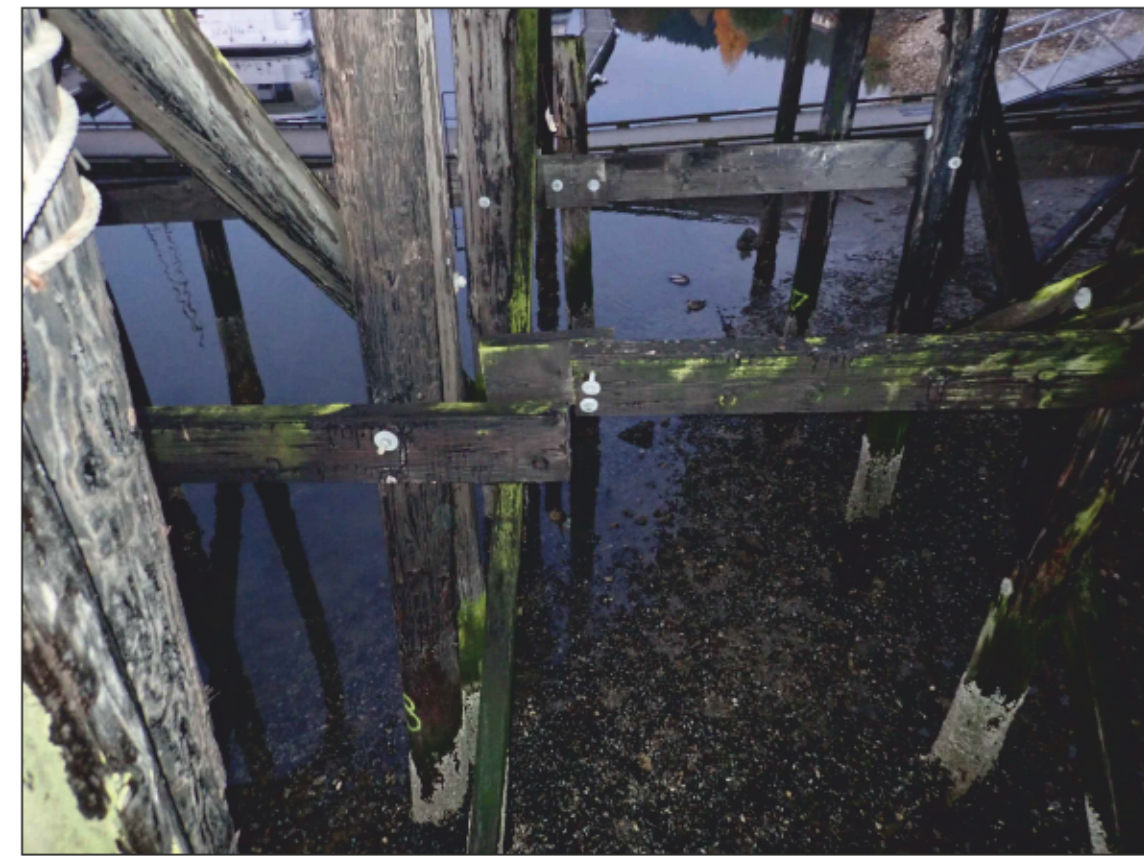
**C**  
CONCRETE FOUNDATION WITH SPALLING (PILE 10-D)  
S-101  
NTS



**D**  
CONCRETE FOUNDATION WITH SPALLING (PILE 11-A)  
S-101  
NTS



**E**  
CONCRETE FOUNDATION WITH SPALLING (PILE 11-D)  
S-101  
NTS



**F**  
SPLICING ISSUE ON HORIZONTAL BRACE  
S-101  
NTS



**G**  
TYPICAL PILE WRAPPING (PILE 43-P)  
S-101  
NTS



**H**  
RECENTRE PILE CAP ONTO PILE AT BENT 49 PILE L  
S-102  
NTS

FOR REFERENCE ONLY

File: Q:\V\AM10381-01 VC:19 Gibson Harbour Reconstruction\CADD\_Active\ Inspection Dwg\1038101G-901 ; Plotted: 10/23/2020 11:18 PM by: MONIKA, TAMIRIS ; Saved: 10/10/2019 9:16 AM by: AMANUJON



**I** DAMAGED STRINGER - PILE CAP 28 TO 38  
SCALE: NTS



**J** TYPICAL CATCH BASIN (WHARFHEAD AND APPROACH)  
SCALE: NTS



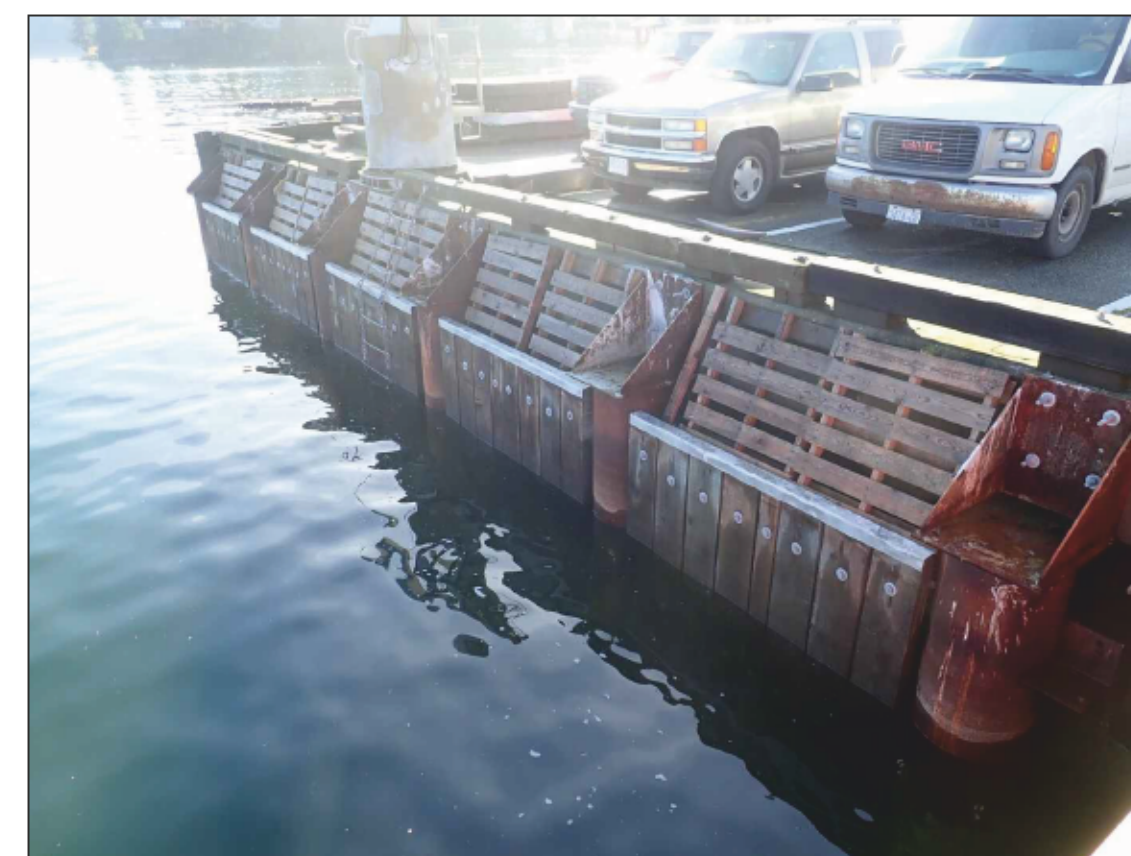
**K** TYPICAL ASPHALT DECKING CONDITION  
SCALE: NTS



**L** TYPICAL CONCRETE PANEL  
SCALE: NTS



**M** CURRENT WAVE WALL COVER PROTECTION  
SCALE: NTS



**N** CURRENT WAVE WALL COVER PROTECTION  
SCALE: NTS



**O** CURRENT WAVE WALL COVER PROTECTION LOOKING SOUTH-EAST  
SCALE: NTS

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FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION - PHOTOGRAPHS  
(2 OF 2)

Rev.	01
Date	2019-03-14
MMN Project No.	10381-01
Drawn by:	PH
Checked by:	PH
Reviewed by:	PH
Submitted by:	PAUL HOO
Submitted by:	MOFFATT & NICHOL
Plot scale:	1:1 (Metric D)

SEAL

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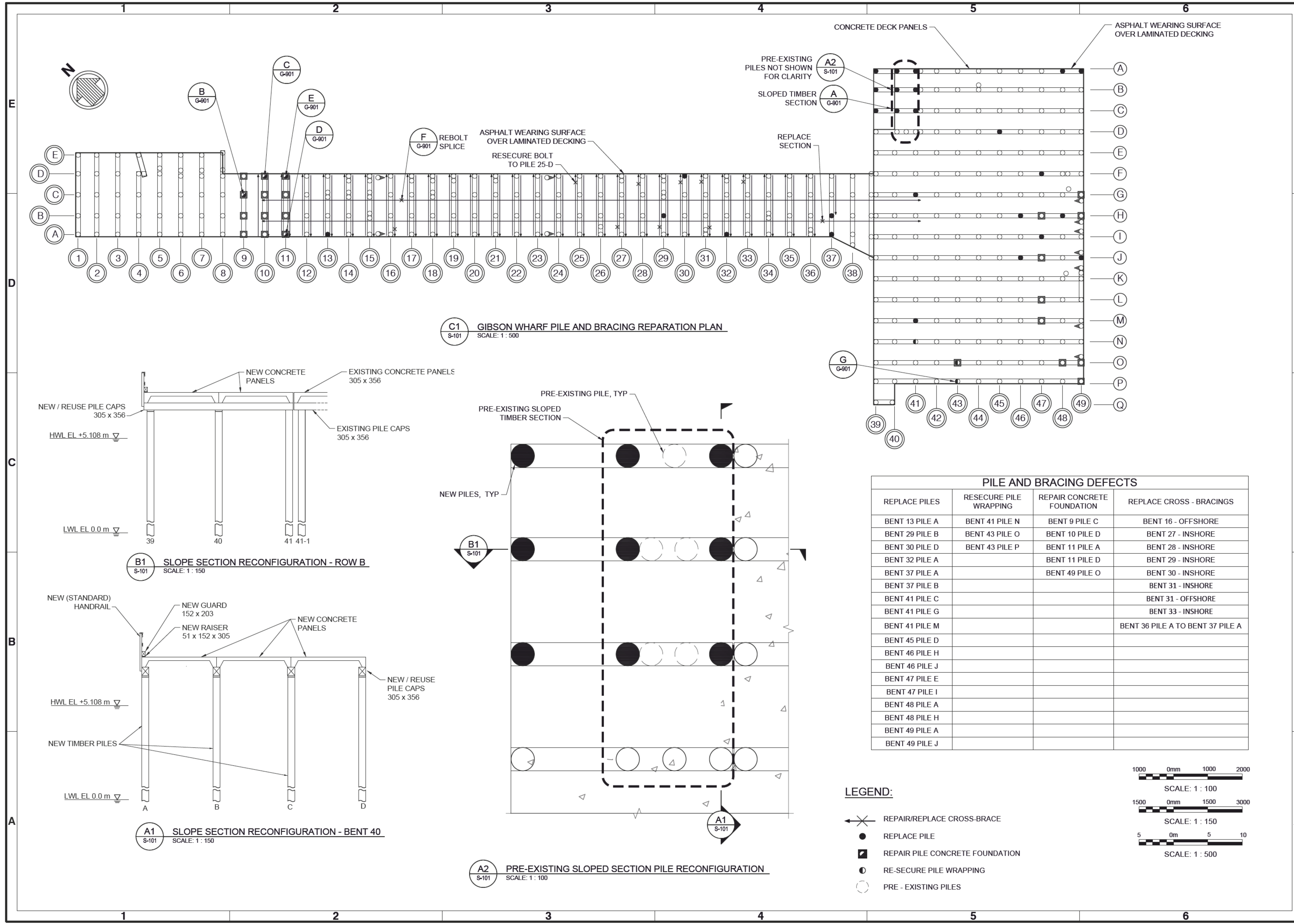
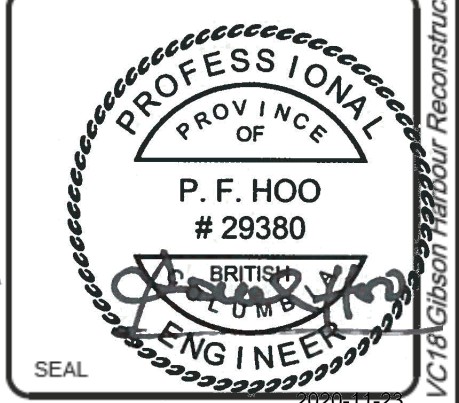
Sheet Reference No.  
**G-902**  
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02	2019.03.14	ISSUE FOR TENDER
01	2018.03.15	REVISED AS SHOWN
00	2018.03.14	ISSUED FOR CLIENT REVIEW

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSON HARBOUR RECONSTRUCTION  
PILE AND BRACING DEFECTS PLAN

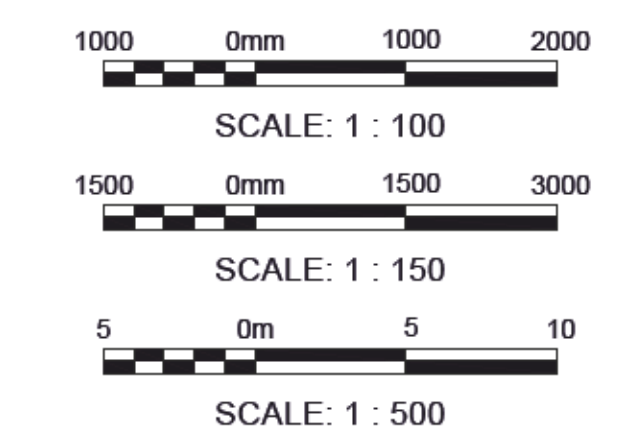
Designed by:	GP	Drawn by:	GE	Checked by:	PH	Reviewed by:	PH	Submitted by:	PAUL HOO MOFFATT & NICHOL	Project No.:	10381-01	Scale:	1:1 (Metric)
Date:	2019-03-14	MAN Project No.:	10381-01	Drawing code:		Drawing Scale:							

DATE:	2019-03-14	PROJECT NO.:	10381-01
DESIGNED BY:	GP	DRAWN BY:	GE
CHECKED BY:	PH	REVIEWED BY:	PH
SUBMITTED BY:	PAUL HOO	COMPANY:	MOFFATT & NICHOL



PILE AND BRACING DEFECTS			
REPLACE PILES	RESECURE PILE WRAPPING	REPAIR CONCRETE FOUNDATION	REPLACE CROSS - BRACINGS
BENT 13 PILE A	BENT 41 PILE N	BENT 9 PILE C	BENT 16 - OFFSHORE
BENT 29 PILE B	BENT 43 PILE O	BENT 10 PILE D	BENT 27 - INSHORE
BENT 30 PILE D	BENT 43 PILE P	BENT 11 PILE A	BENT 28 - INSHORE
BENT 32 PILE A		BENT 11 PILE D	BENT 29 - INSHORE
BENT 37 PILE A		BENT 49 PILE O	BENT 30 - INSHORE
BENT 37 PILE B			BENT 31 - INSHORE
BENT 41 PILE C			BENT 31 - OFFSHORE
BENT 41 PILE G			BENT 33 - INSHORE
BENT 41 PILE M			BENT 36 PILE A TO BENT 37 PILE A
BENT 45 PILE D			
BENT 46 PILE H			
BENT 46 PILE J			
BENT 47 PILE E			
BENT 47 PILE I			
BENT 48 PILE A			
BENT 48 PILE H			
BENT 49 PILE A			
BENT 49 PILE J			

- LEGEND:**
- ← X → REPAIR/REPLACE CROSS-BRACE
  - REPLACE PILE
  - REPAIR PILE CONCRETE FOUNDATION
  - RE-SECURE PILE WRAPPING
  - PRE - EXISTING PILES



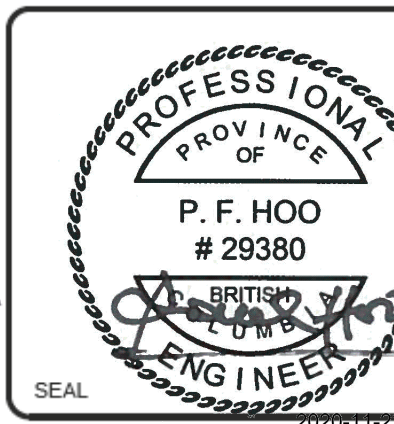


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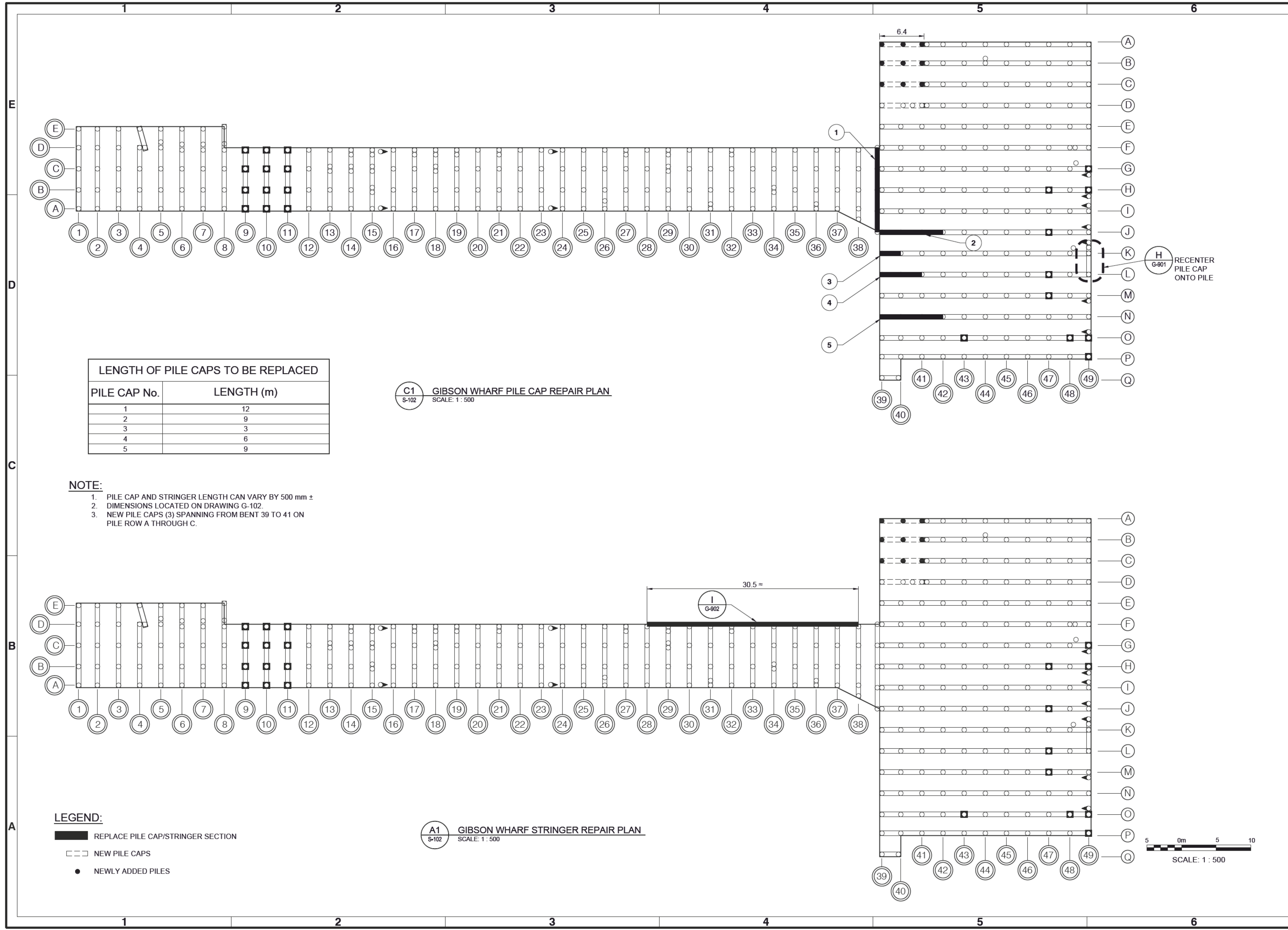
FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
PILE CAP AND STRINGER PLAN

Designed by:	GP	Drawn by:	GE	Reviewed by:	PH	Submitted by:	PAUL HOO MOFFATT & NICHOL
Date:	2019-03-14	MMN Project No.:	10381-01	Drawing code:		Drawing Scale:	1:1 (Metric D)
Rev.:	01						

Author:	PH
Checker:	PH
Engineer:	PH



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**LENGTH OF PILE CAPS TO BE REPLACED**

PILE CAP No.	LENGTH (m)
1	12
2	9
3	3
4	6
5	9

**C1** GIBSON WHARF PILE CAP REPAIR PLAN  
S-102 SCALE: 1 : 500

- NOTE:**
- PILE CAP AND STRINGER LENGTH CAN VARY BY 500 mm ±
  - DIMENSIONS LOCATED ON DRAWING G-102.
  - NEW PILE CAPS (3) SPANNING FROM BENT 39 TO 41 ON PILE ROW A THROUGH C.

- LEGEND:**
- REPLACE PILE CAP/STRINGER SECTION
  - NEW PILE CAPS
  - NEWLY ADDED PILES

**A1** GIBSON WHARF STRINGER REPAIR PLAN  
S-102 SCALE: 1 : 500



File: Q:\VAM\10381-01\VC\19\Gibson\Harbour\_Reconstruction\CADD\Active\Inspection Dwg\1038101S-102.dwg; Plotted: 10/23/2020 11:26 PM by: MOMMA, TAMIRIS; Saved: 10/10/2019 9:03 AM by: AMANUZON

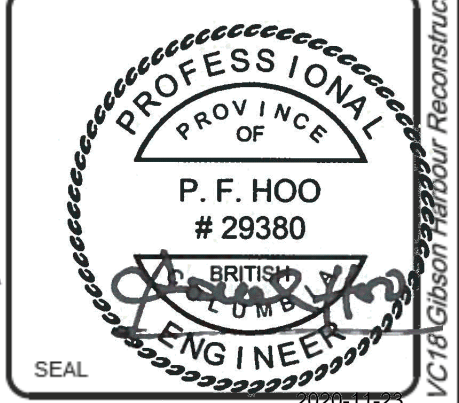
Rev	Date	PH	Age
01	2019/03/14	PH	
00	2019/03/14	PH	

FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION

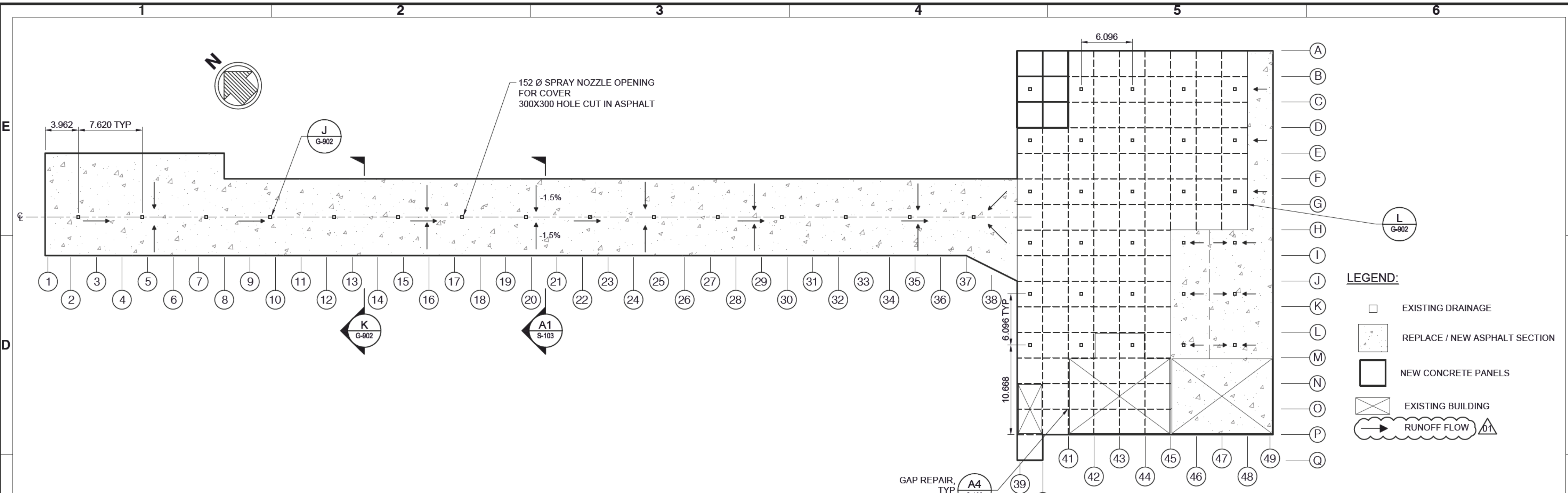
GIBSONS HARBOUR RECONSTRUCTION  
ASPHALT AND DRAINAGE

Rev	Date	PH	10381-01	1:1 (Metric C)
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Designed by	Drawn by	Checked by	Reviewed by	Submitted by
GP	GE	PH	PH	PAUL HOO MODFATT & NICHOL



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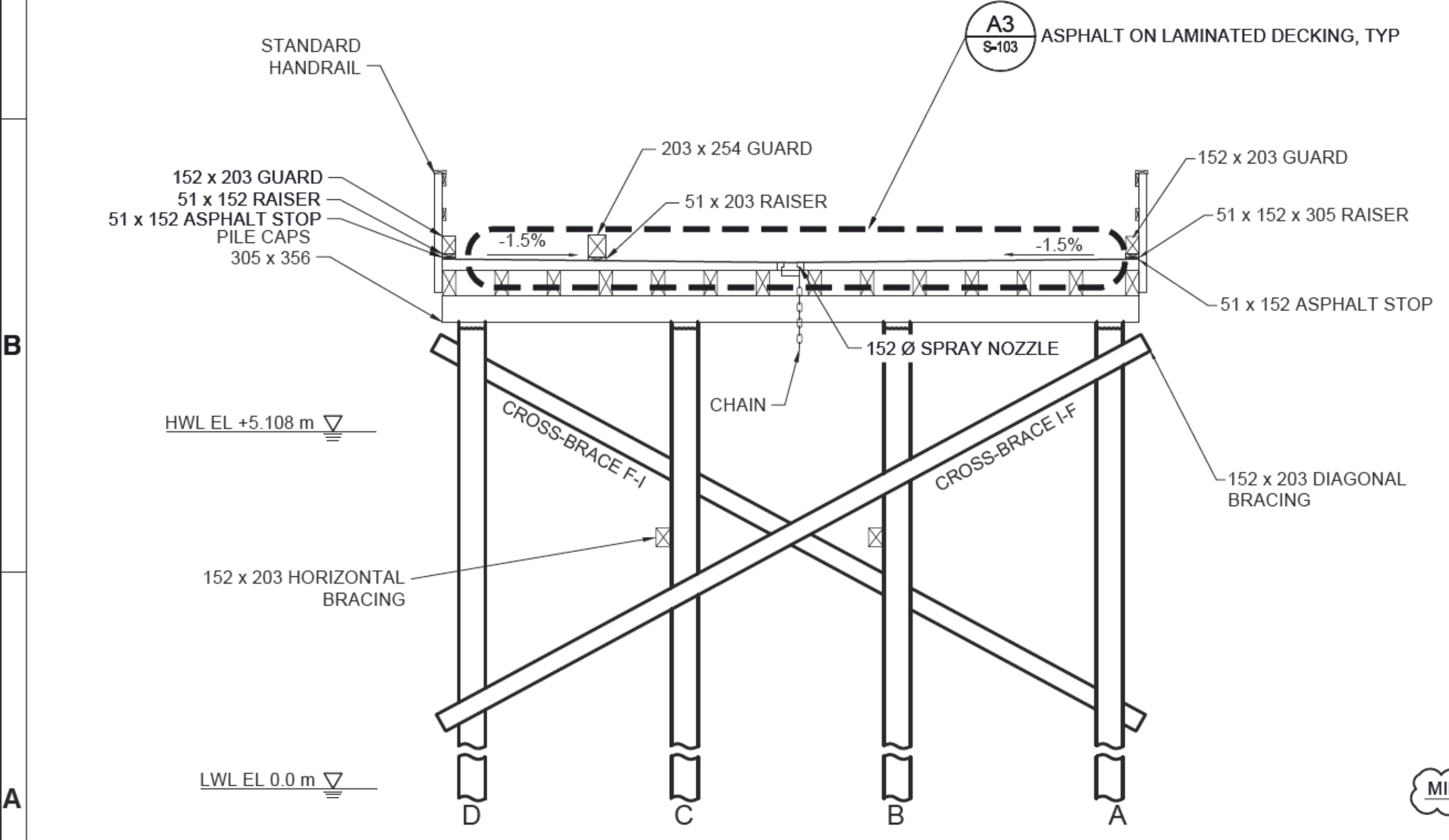


**C1**  
S-103  
**GIBSON WHARF DRAINAGE AND ASPHALT REPAIR PLAN**  
SCALE: 1 : 500

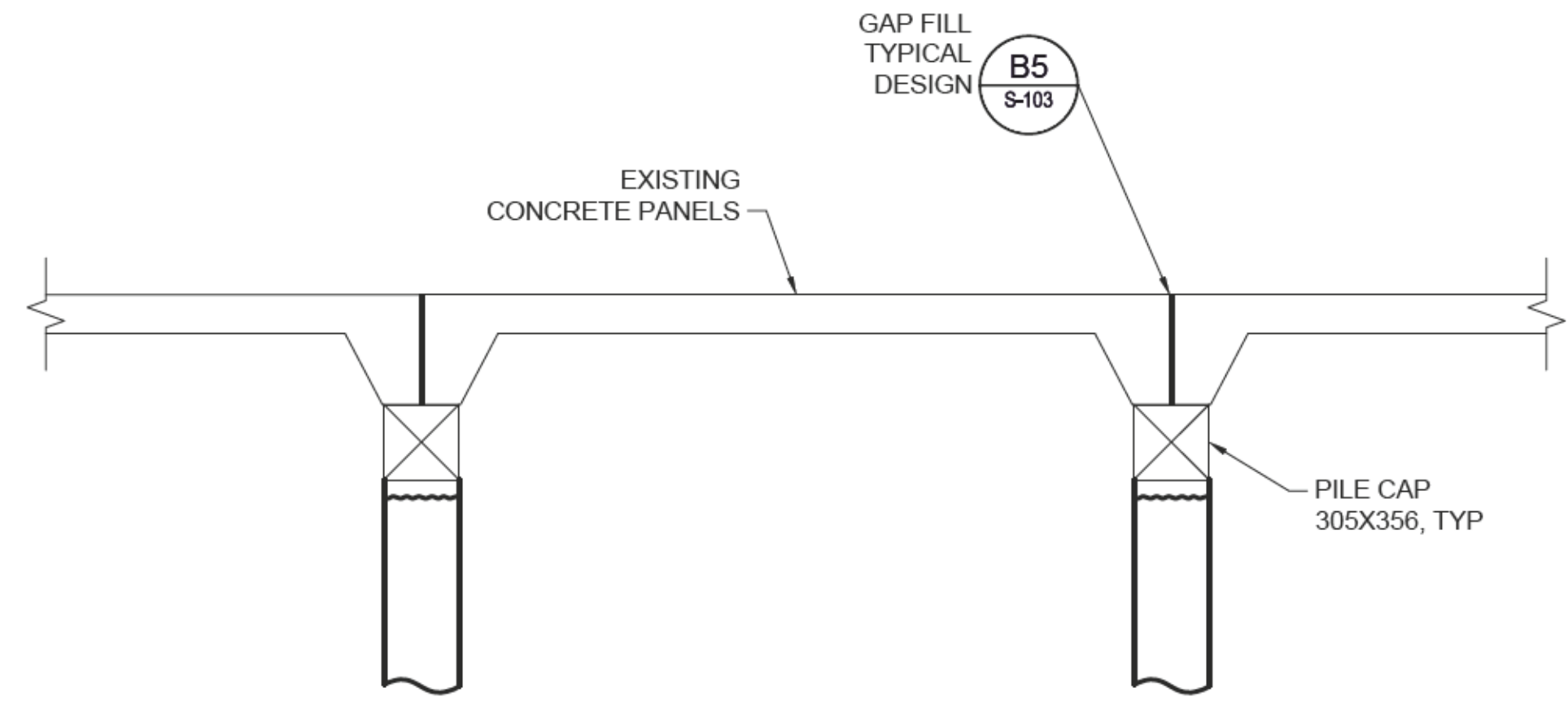
**LEGEND:**

- EXISTING DRAINAGE
- REPLACE / NEW ASPHALT SECTION
- NEW CONCRETE PANELS
- EXISTING BUILDING
- RUNOFF FLOW

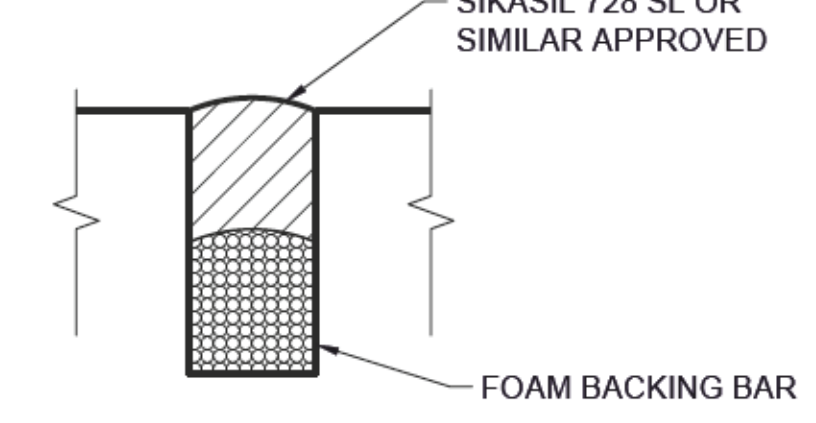
- NOTE:**
- FILL SIKASIL 728SL OR EQUIVALENT, IN GAPS RUNNING ALONG THE PILE CAPS.
  - CLEAN GAP PRIOR TO SEALANT INSTALLATION.
  - SEE REFERENCE DRAWINGS FOR NEW CONCRETE PANEL DETAILS.



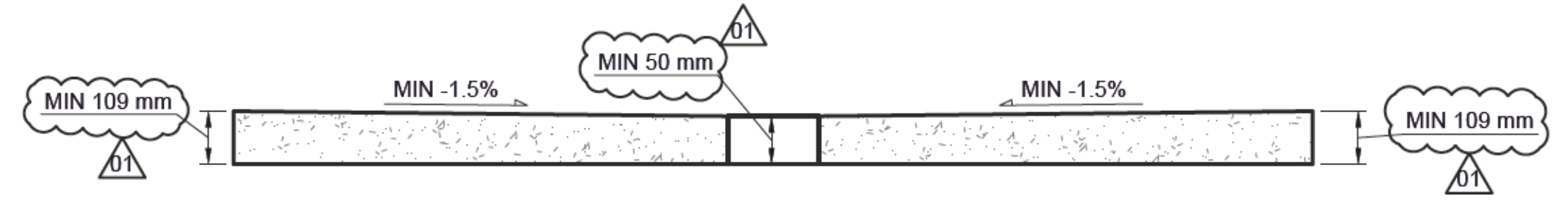
**A1**  
S-103  
**TYPICAL APPROACH SECTION**  
SCALE: 1 : 100



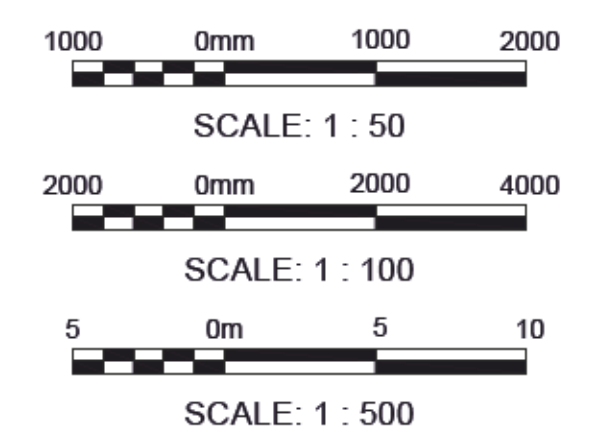
**A4**  
S-103  
**PRECAST CONCRETE PANEL GAP REPAIR**  
SCALE: 1 : 50



**B5**  
S-103  
**CONCRETE PANEL GAP FILL DETAIL**  
NTS



**A3**  
S-103  
**ASPHALT ON LAMINATED DECKING**  
NTS

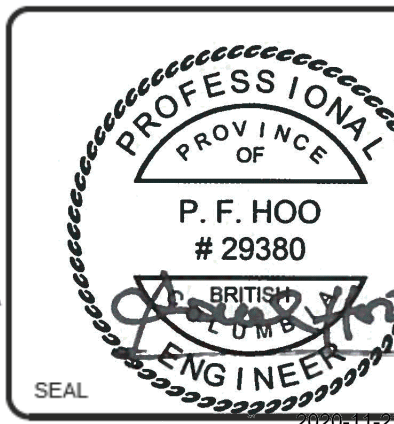


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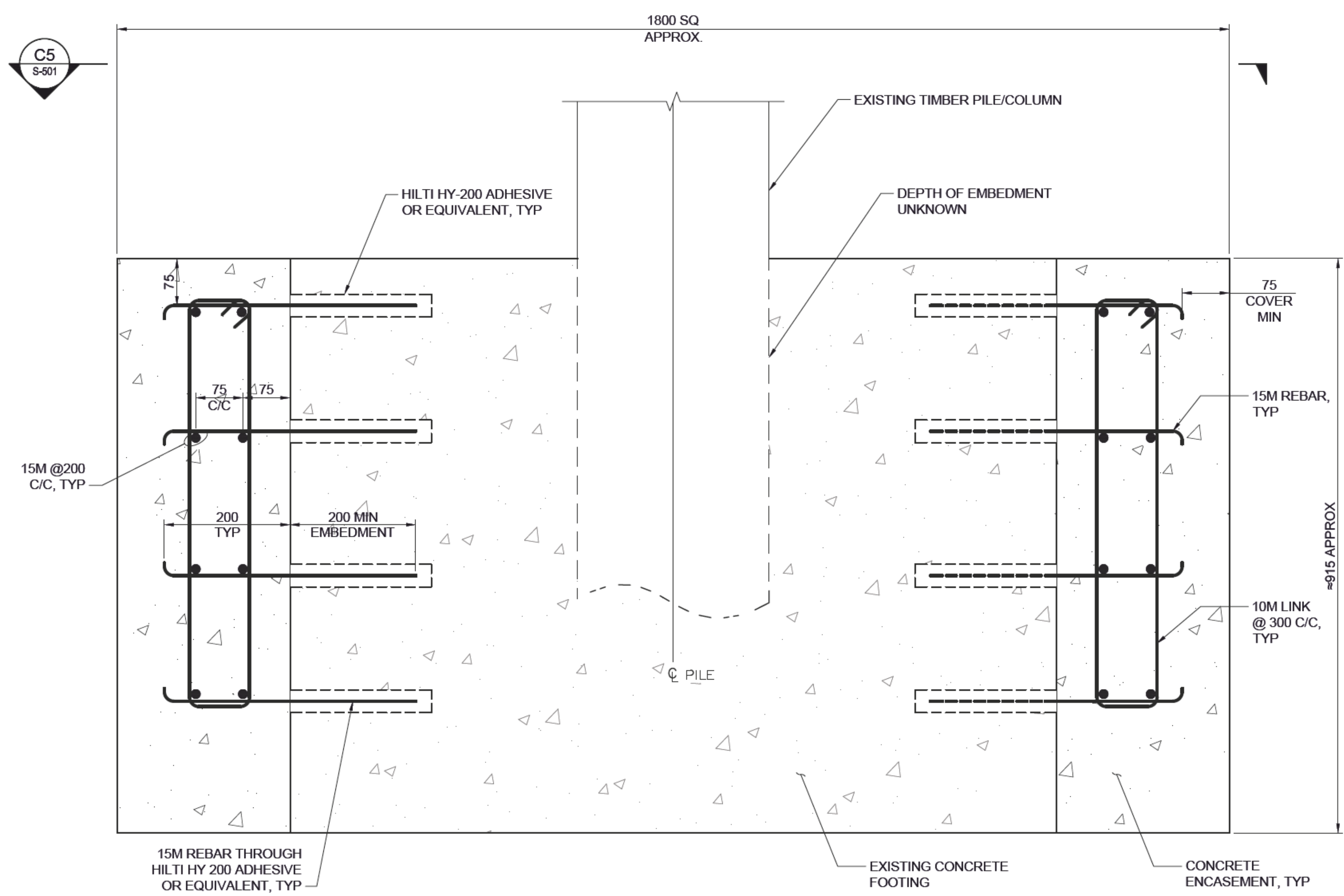
FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
PILE FOOTING REPAIR

Designed by:	GP	Drawn by:	GE	Checked by:	PH	Reviewed by:	PH	Submitted by:	PAUL HOO MODFATT & NICHOL
Date:	2019-03-14	MMN Project No.:	10381-01	Drawing code:		Drawing Scale:	1:1 (Metric D)	Plot scale:	1:1 (Metric D)

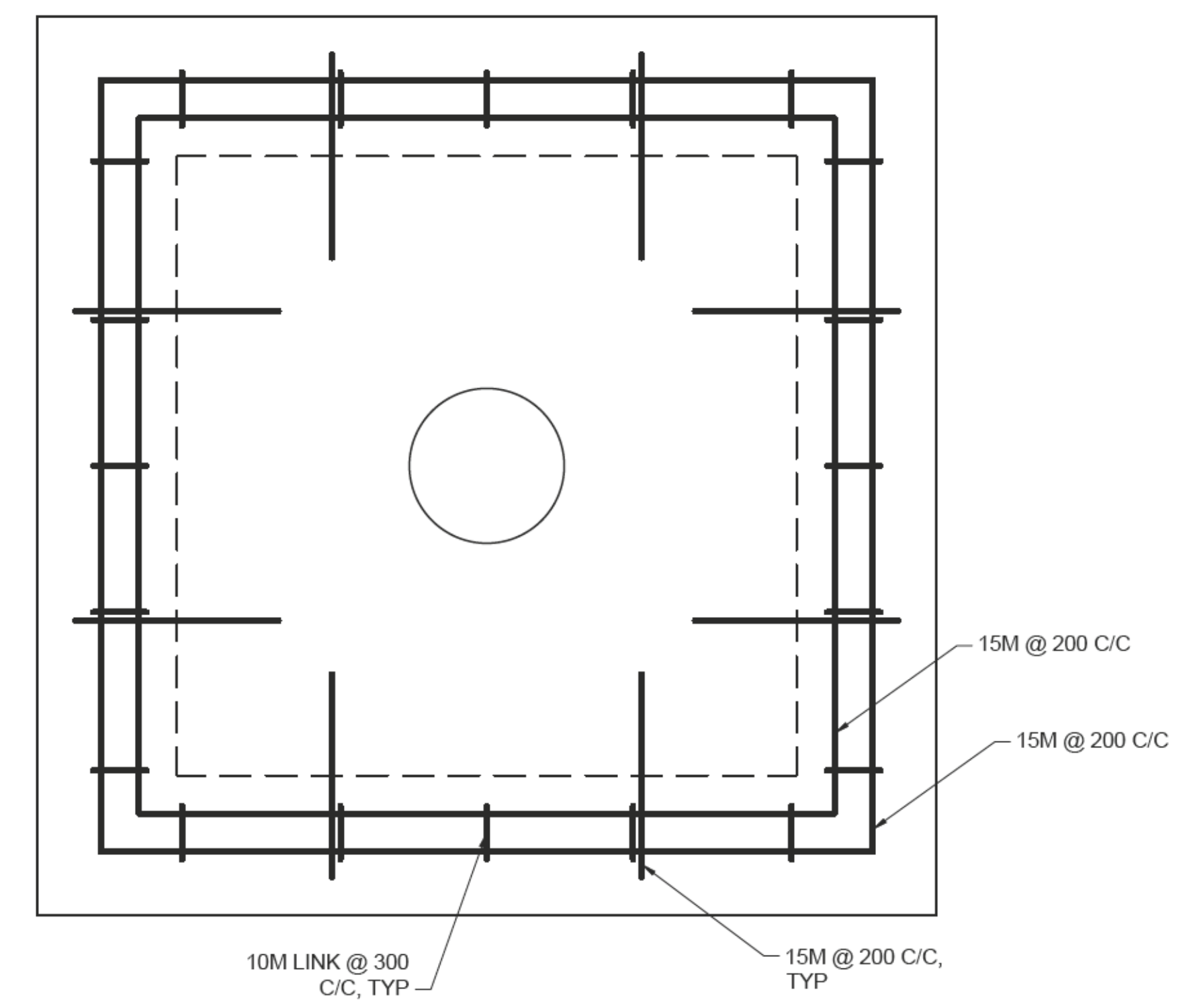
Revised by:		Revised date:	
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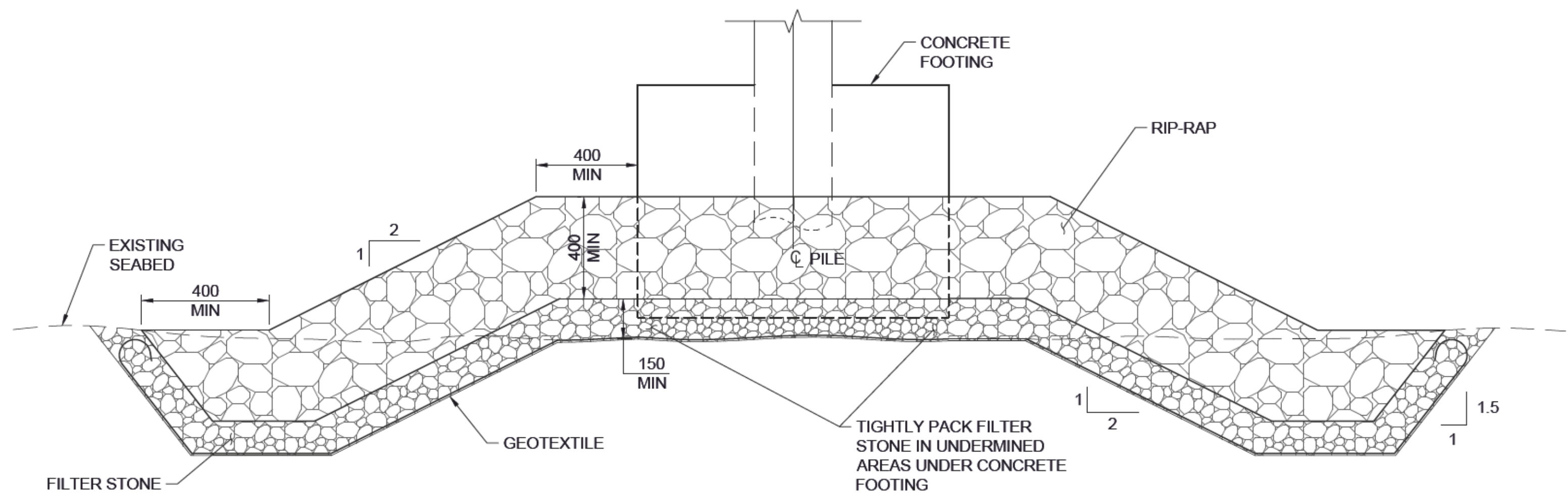


**C1** TYPICAL CONCRETE FOOTING REPAIR  
SCALE: 1 : 10

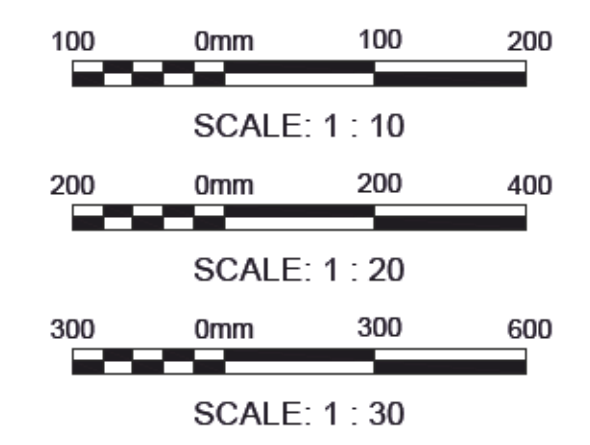


**C5** SECTION  
SCALE: 1 : 20

- NOTES**
- CONCRETE FOOTING REPAIR CONSTRUCTION SEQUENCE.
- CLEAN EXISTING CONCRETE FOOTING OF ALL MARINE GROWTH TO ENSURE BOND.
  - DRILL EXISTING CONCRETE FOOTING AND EMBED 15M REBAR WITH HILTI HY-200.
  - FIX REBAR INTO FOUNDATION AND REINFORCEMENT EDGE.
  - PLACE FORMS.
  - CAST 35MPa COMPRESSIVE STRENGTH CONCRETE.



**A2** TYPICAL SECTION - PILE 11-D UNDERMINING REPAIR  
SCALE: 1 : 30

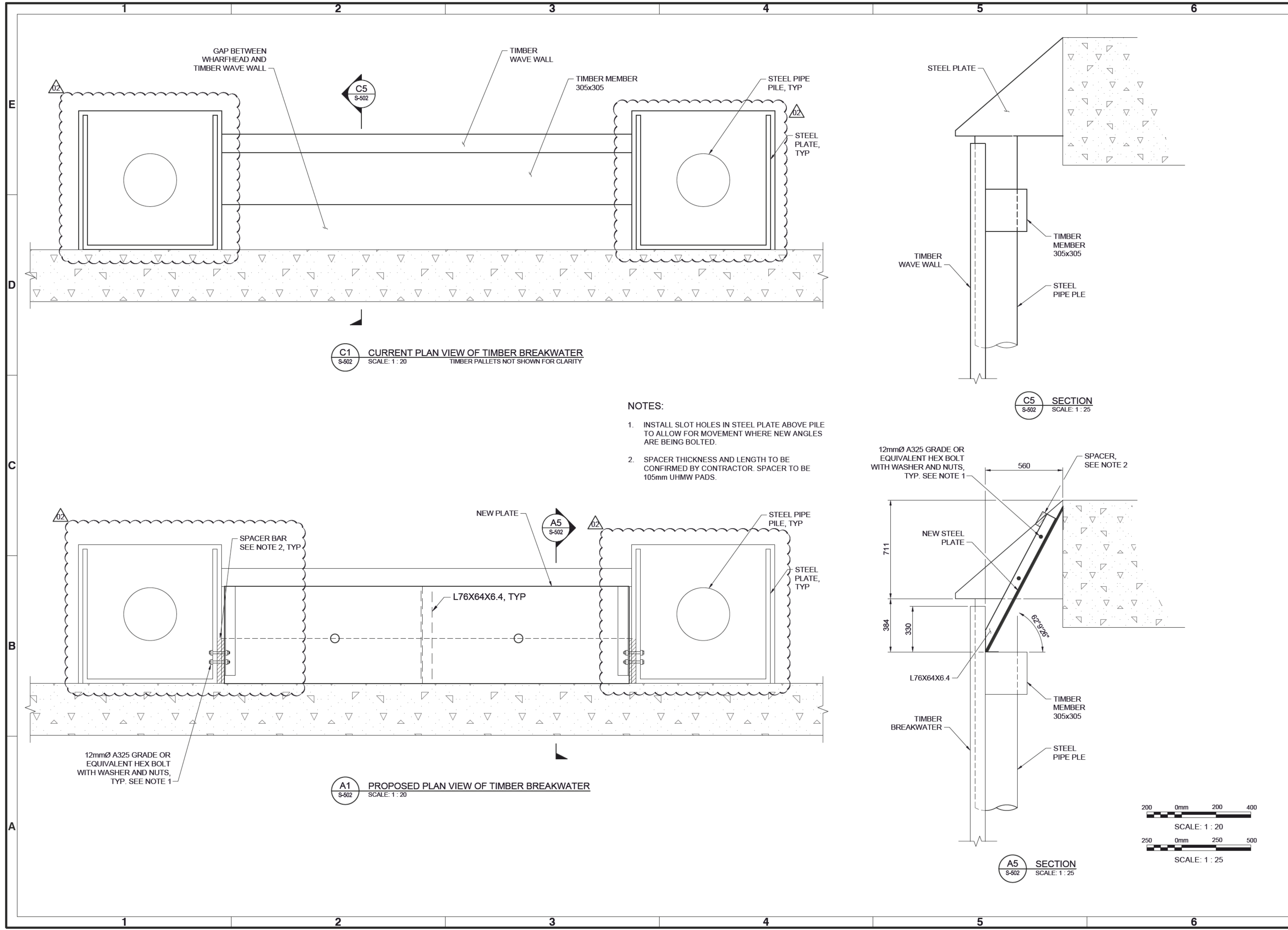
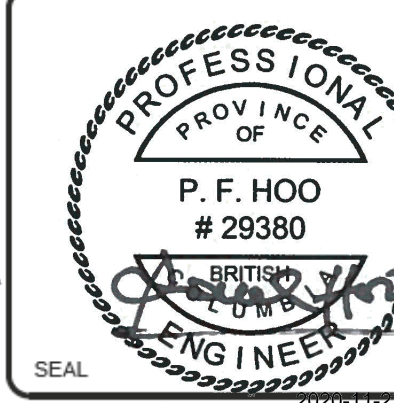


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FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
TIMBER BREAKWATER GAP SAFETY  
PLATE REPAIR PLAN

Designed by:	GP	Drawn by:	GE	Checked by:	PH	Reviewed by:	PH	Submitted by:	PAUL HOO MODFATT & NICHOL
Date:	2019-03-14	MMN Project No.:	10381-01	Drawing code:		Drawing Scale:	1:1 (Metric D)	Post scale:	1:1 (Metric D)

Author:	GP	Checker:	PH	Reviewer:	PH	Submitter:	PAUL HOO MODFATT & NICHOL
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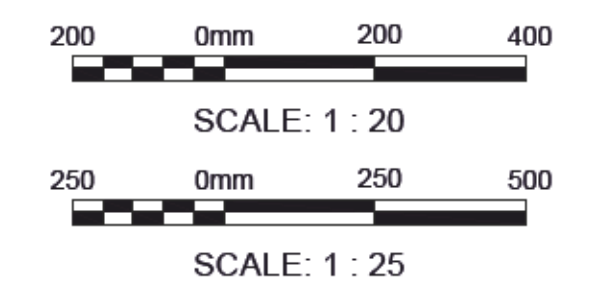
**C1** CURRENT PLAN VIEW OF TIMBER BREAKWATER  
SCALE: 1 : 20  
TIMBER PALLETS NOT SHOWN FOR CLARITY

- NOTES:
1. INSTALL SLOT HOLES IN STEEL PLATE ABOVE PILE TO ALLOW FOR MOVEMENT WHERE NEW ANGLES ARE BEING BOLTED.
  2. SPACER THICKNESS AND LENGTH TO BE CONFIRMED BY CONTRACTOR. SPACER TO BE 105mm UHMW PADS.

**A1** PROPOSED PLAN VIEW OF TIMBER BREAKWATER  
SCALE: 1 : 20

**C5** SECTION  
SCALE: 1 : 25

**A5** SECTION  
SCALE: 1 : 25

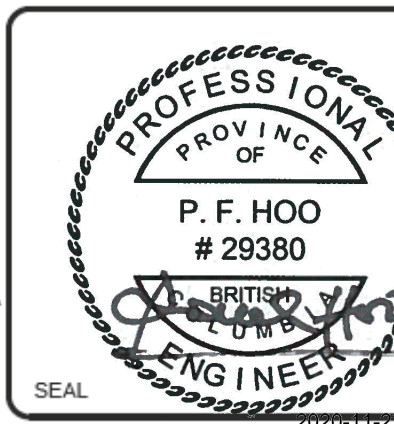


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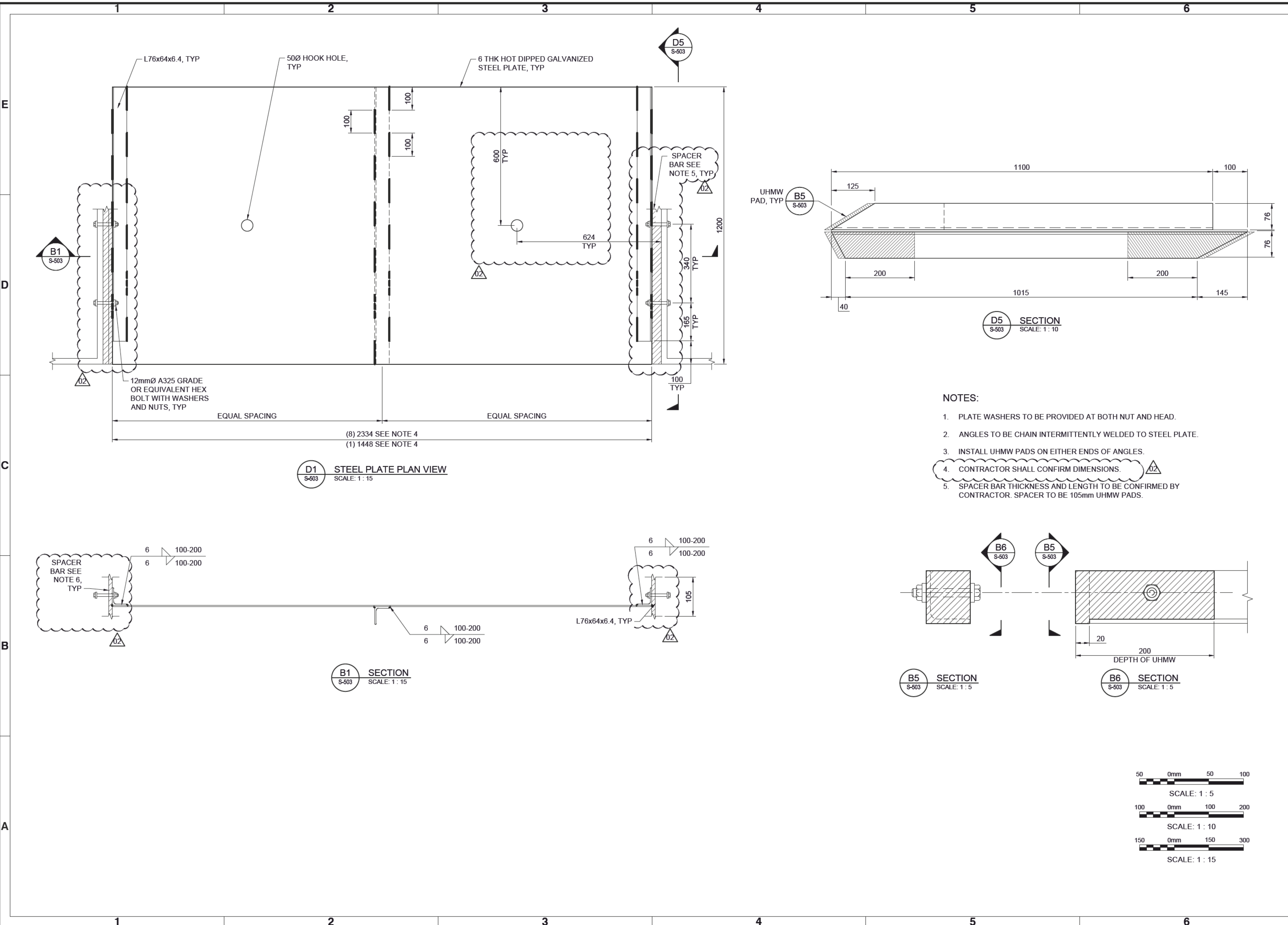
FISHERIES AND OCEANS CANADA  
SMALL CRAFT HARBOURS BRANCH  
PACIFIC DIVISION  
GIBSONS HARBOUR RECONSTRUCTION  
SAFETY PLATE DETAIL

Designed by:	GP	Checked by:	PH	Drawn by:	PH	Reviewed by:	PH	Submitted by:	PAUL HOO MOFFATT & NICHOL	Project No.:	10381-01	Post scale:	1:1 (Metric D)
Date:	2019-03-14	MMN Project No.:		Drawing code:		Drawing Scale:							

Scale:	1:15
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- NOTES:
1. PLATE WASHERS TO BE PROVIDED AT BOTH NUT AND HEAD.
  2. ANGLES TO BE CHAIN INTERMITTENTLY WELDED TO STEEL PLATE.
  3. INSTALL UHMW PADS ON EITHER ENDS OF ANGLES.
  4. CONTRACTOR SHALL CONFIRM DIMENSIONS.
  5. SPACER BAR THICKNESS AND LENGTH TO BE CONFIRMED BY CONTRACTOR. SPACER TO BE 105mm UHMW PADS.

