PERSPECTIVE
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



PORT DEVELOPMENT PLAN
SCALE 1:2500 METERS

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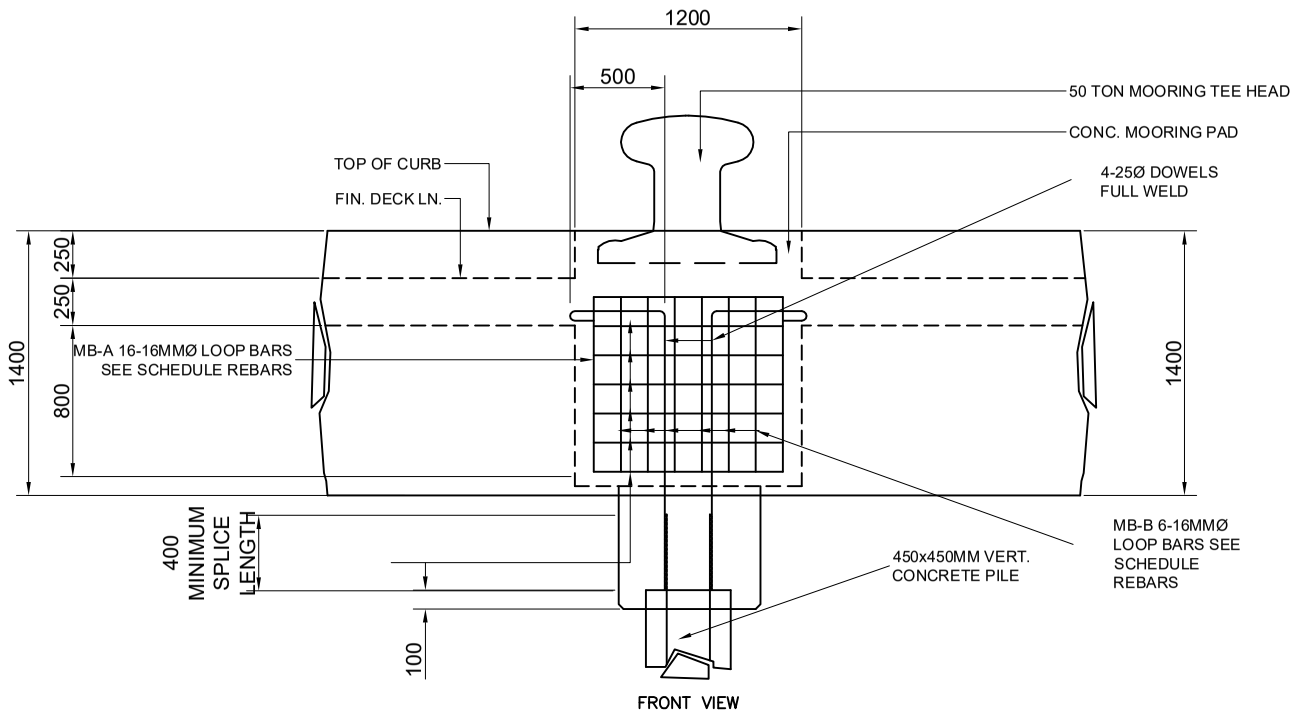
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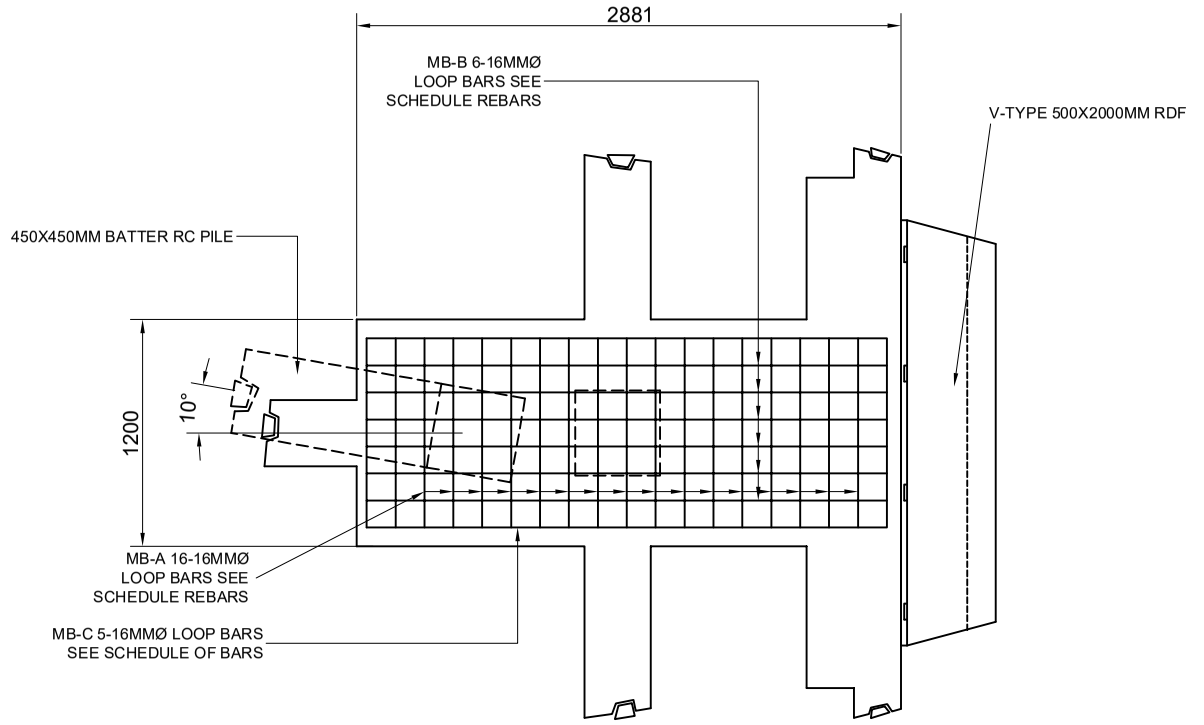
PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE OF COTABATO

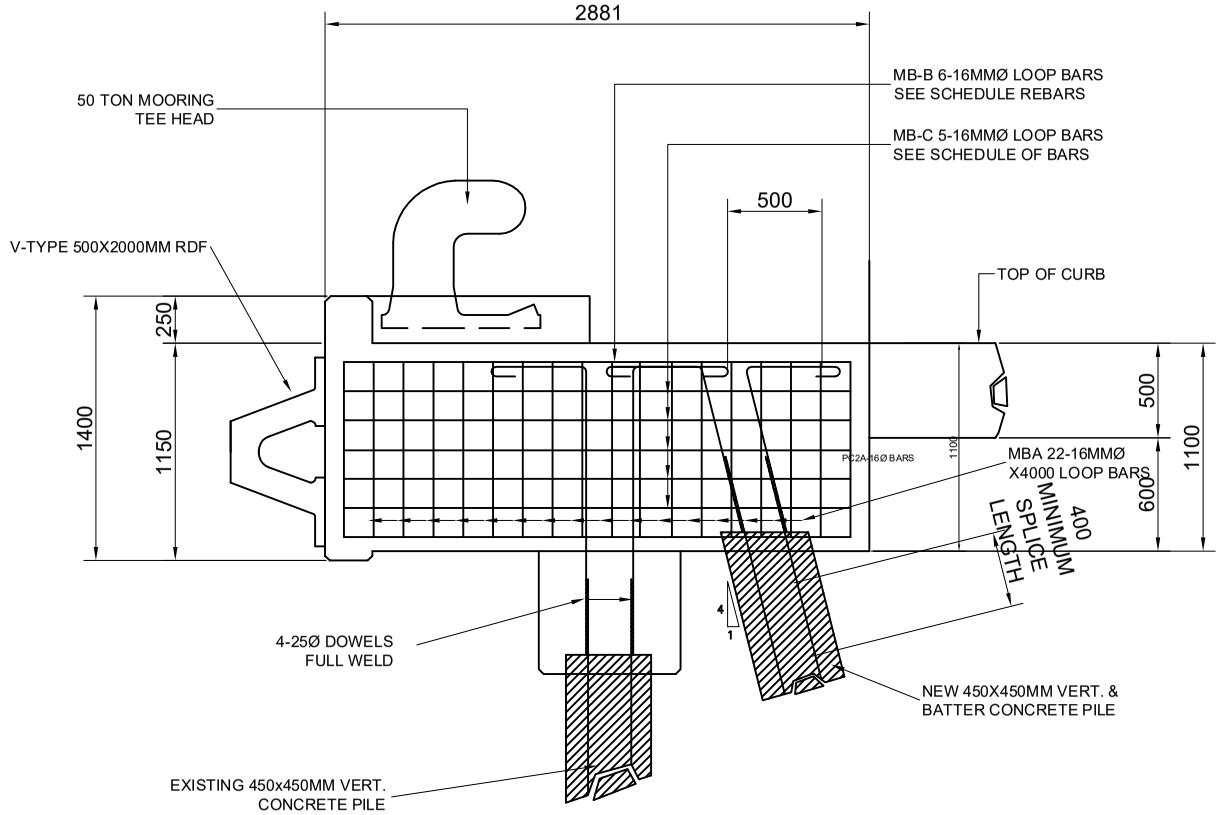
PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	1 OF 23

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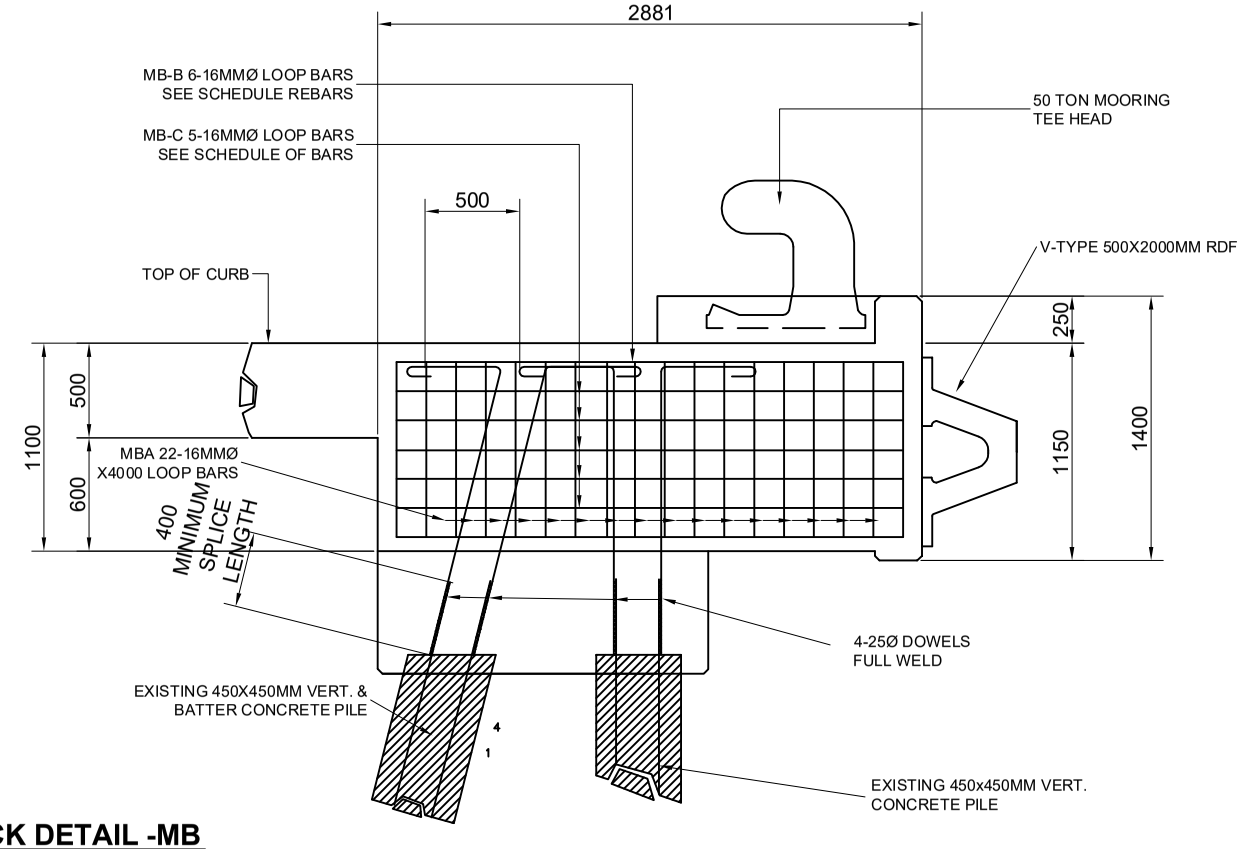


FRONT VIEW





TOP VIEW



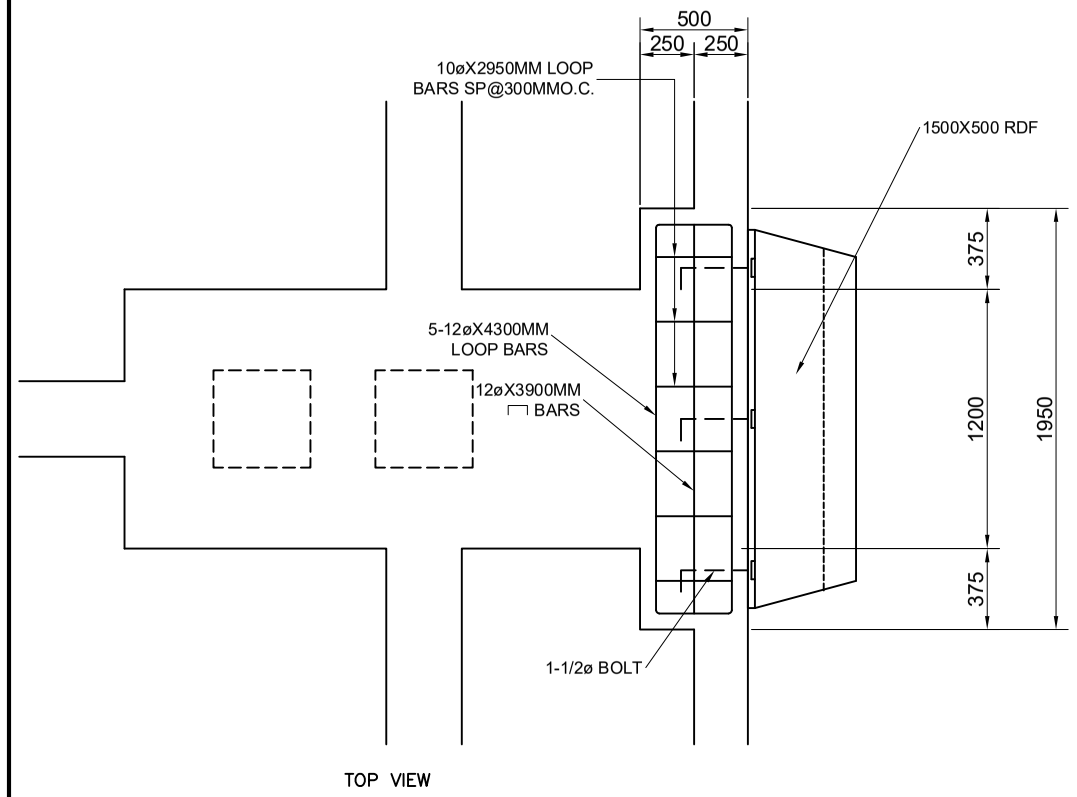
MOORING BLOCK DETAIL -MB

SCALE 1:40 METERS

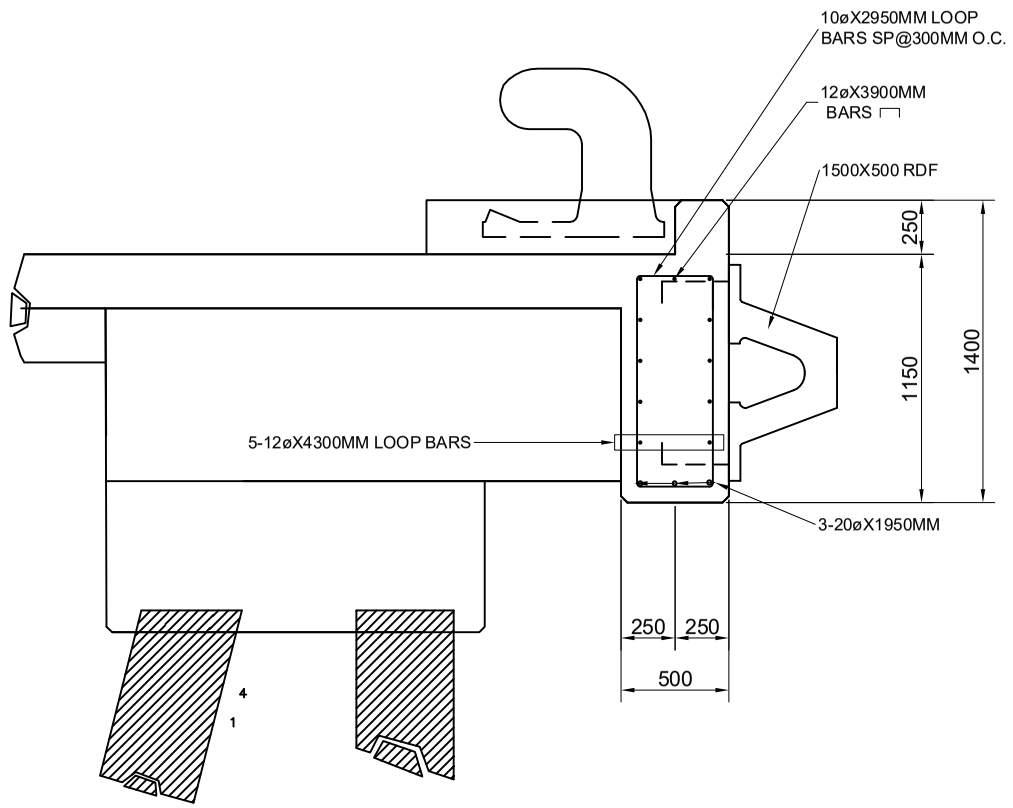
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PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO, ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES, CONSTRUCTION FOREMAN	BELTZASAR L. GELLA, ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR., ACTING PORT MANAGER	10 OF 23

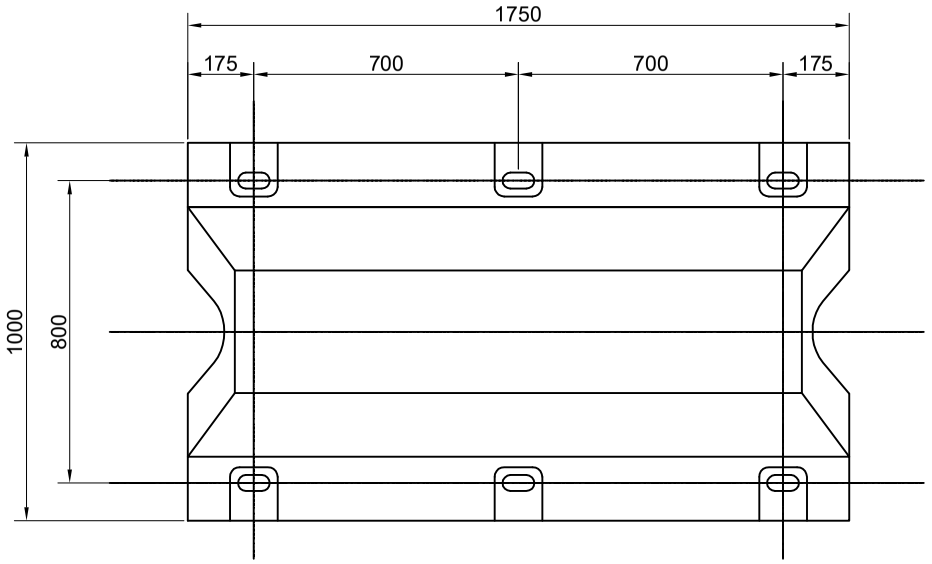
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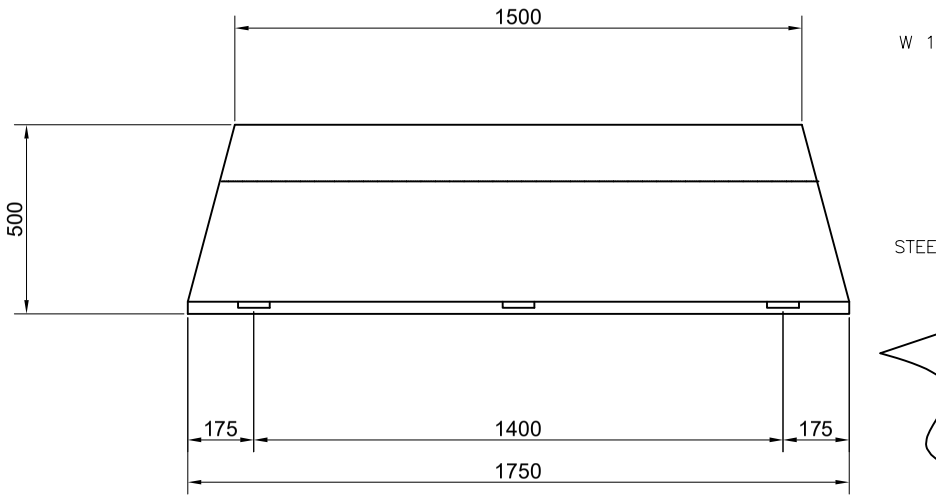


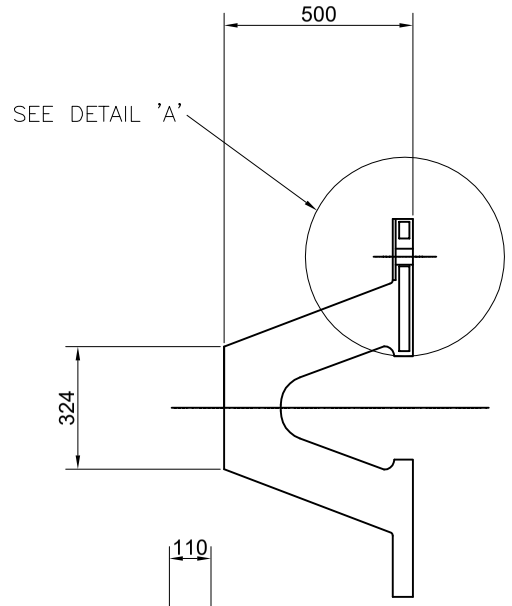
TOP VIEW

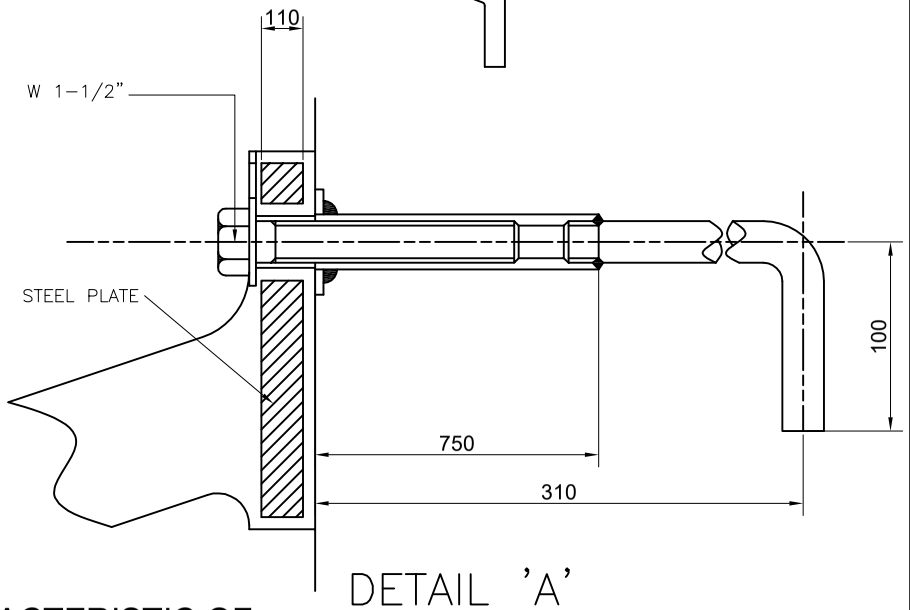


MB-FENDERING ATTACHMENT DETAIL
SCALE 1:35 METERS









DETAIL 'A'

PERFORMANCE CHARACTERISTIC OF 500 H (V2-Type)

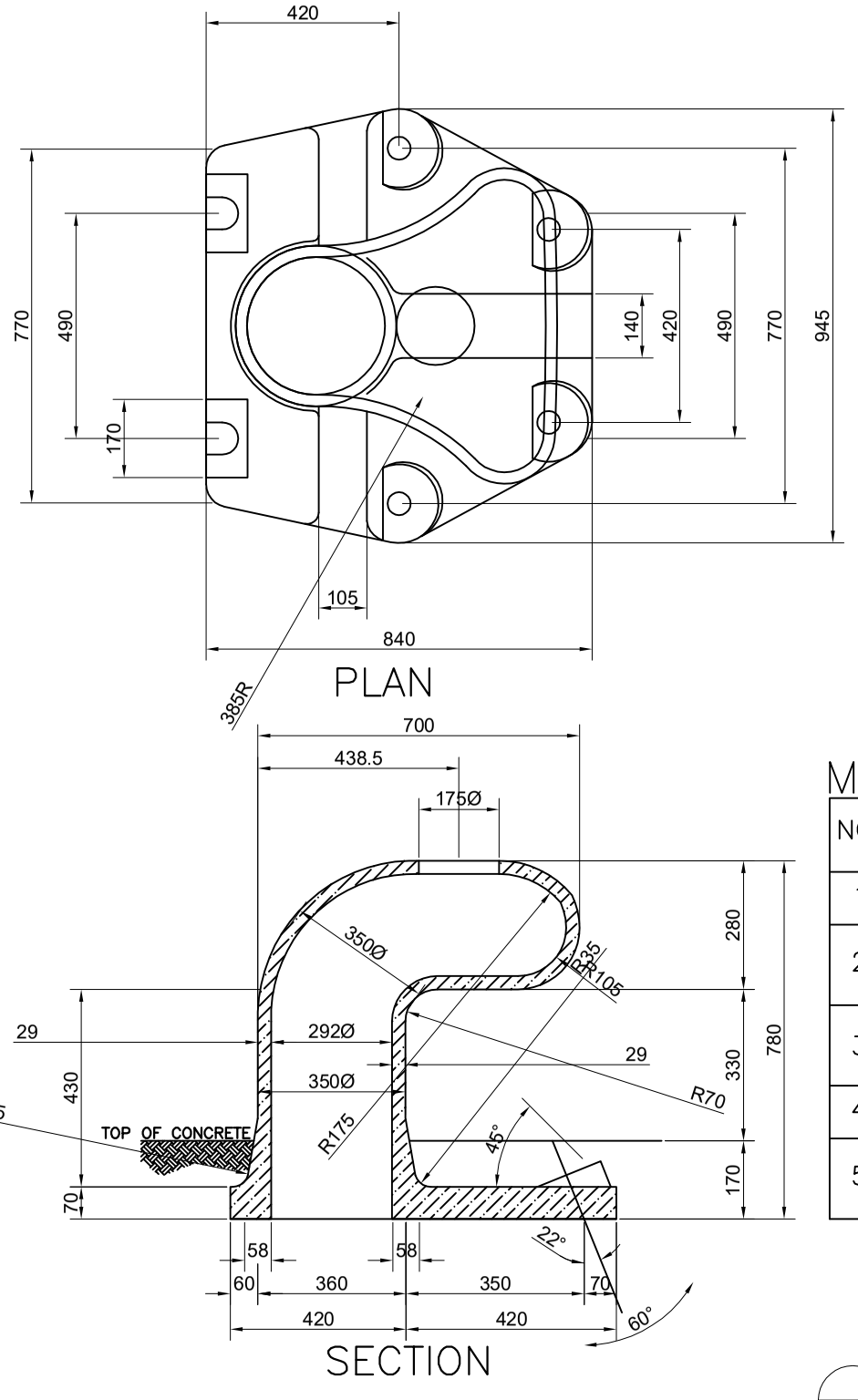
DESIGNED DEFLECTION OF FENDER (45%) PERFORMANCE TOLERANCE ± 10%	
REACTION FORCE	ENERGY ABSORPTION
TONf	TON / M
56.3	9.38

500X1500MM V2-TYPE RUBBER DOCK FENDER DETAIL
SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

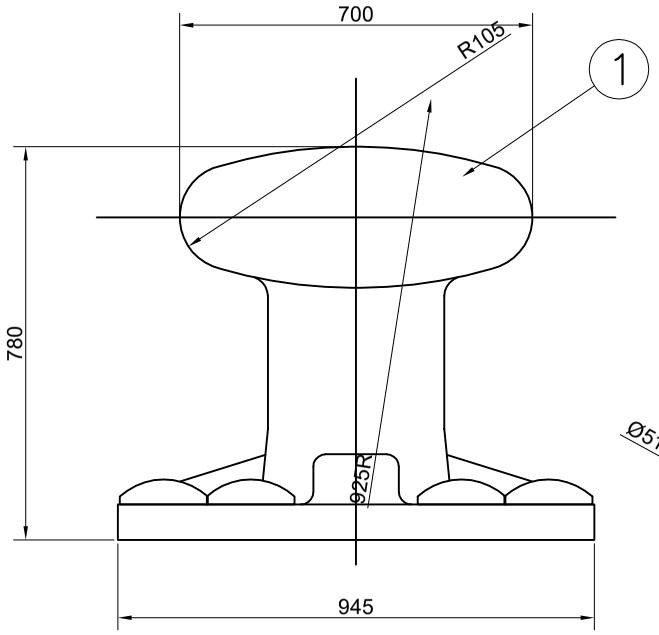
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PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR	RODSKIE P. ROGORO ENIGNEERING ASSISTANT (JO)	SOLLITO C. ROSALES CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	11 OF 23
LOCATION: PALIMBANG, SULTAN KUDARAT					

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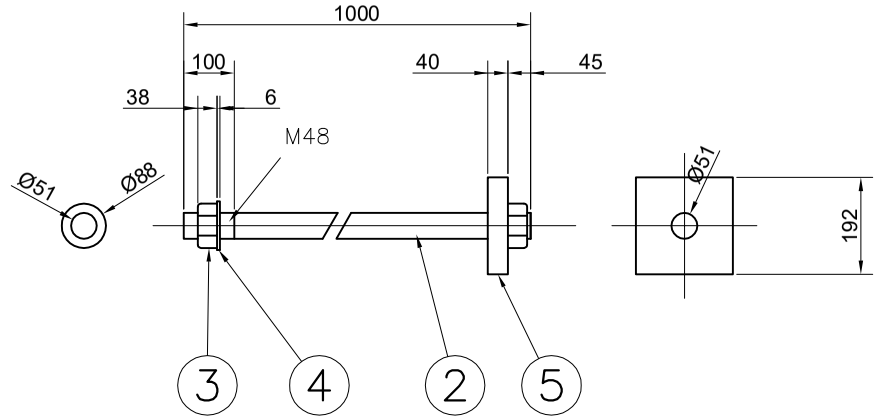


PLAN

SECTION



ELEVATION



MATERIALS AND WEIGHT

NO.	DESCRIPTION	MATERIALS AND SPECIFICATION	ALLOW STRESS (Kgf/cm sq.)	QTY.	WEIGHT PER Pc (Kgf)	WT. (Kgf)
1	BODY	JIS G 5101 3 GRADE SC 46	1,400	1	663	663
2	ANCHOR BOLT	JIS G 3101 2 GRADE SS41 JIS B 0205 M 48–5	1,400	6	14	84
3	HEXAGON NUTS	JIS B 1181 1 GRADE 4T M18–5	–	2	–	–
4	PLAIN WASHER	JIS B 1256 ROUND STEEL	–	6	–	–
5	ANCHOR RING	JIS G 3101 2 GRADE SS41 OR JIS G 5101 3 GRADE SC46	1,400	6	12	72

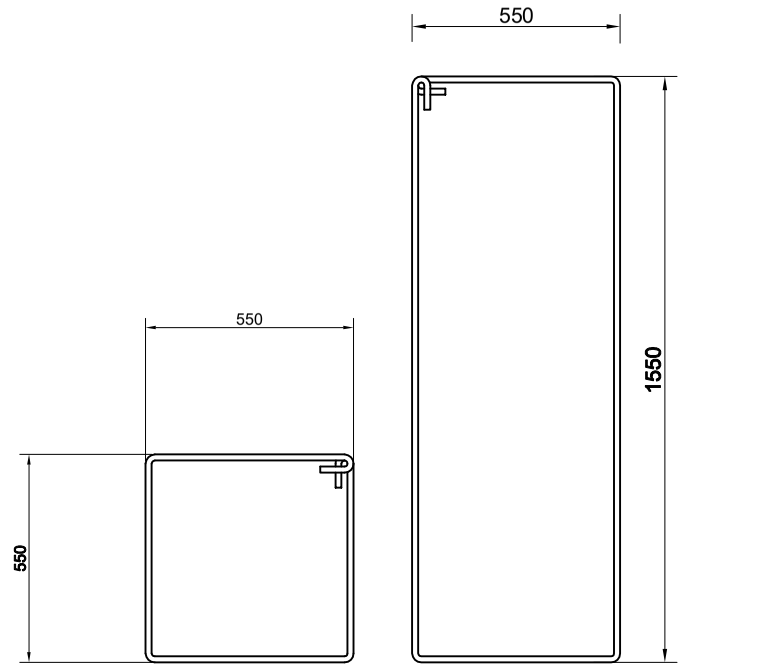
50 TON MOORING TEE HEAD

SCALE 1:15 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	12 OF 23

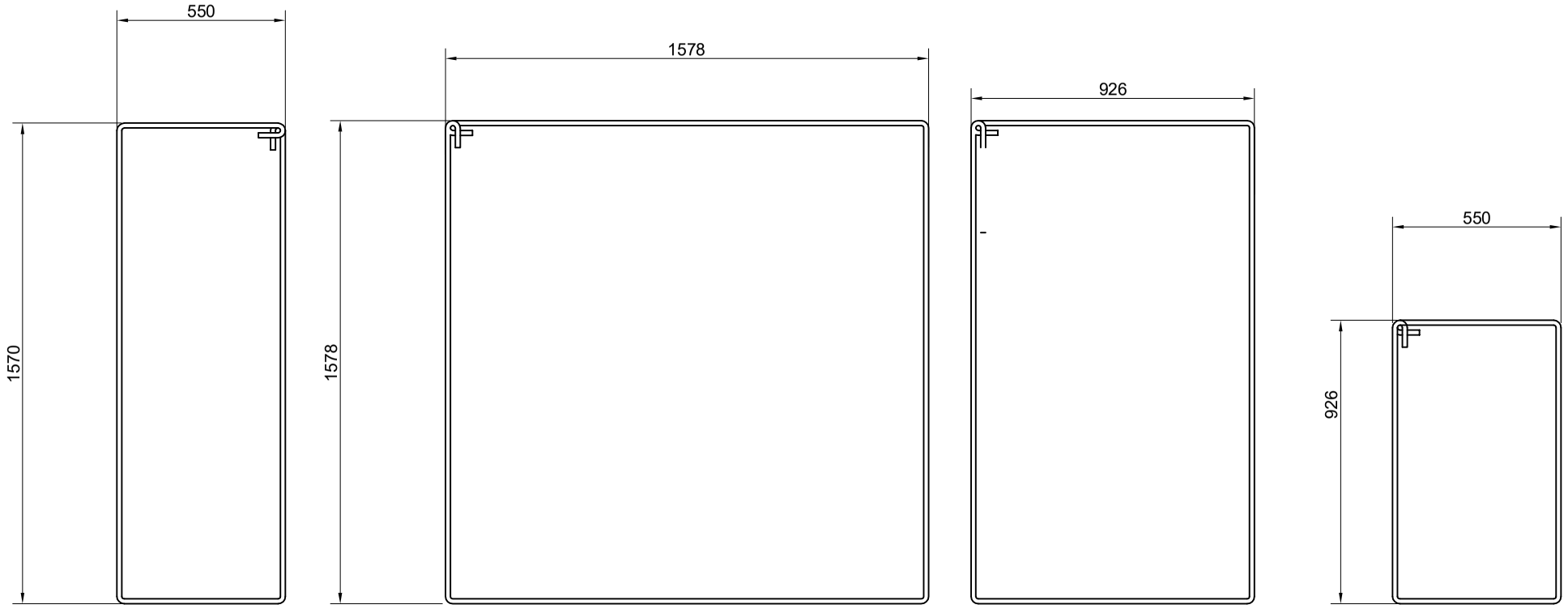
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PC1A-16Ø X 2309 MM CAGE BARS

PC1B-16Ø X 4300MM CAGE BARS

CAGE BAR OF PILE CAP 1
SCALE 1:15 METERS



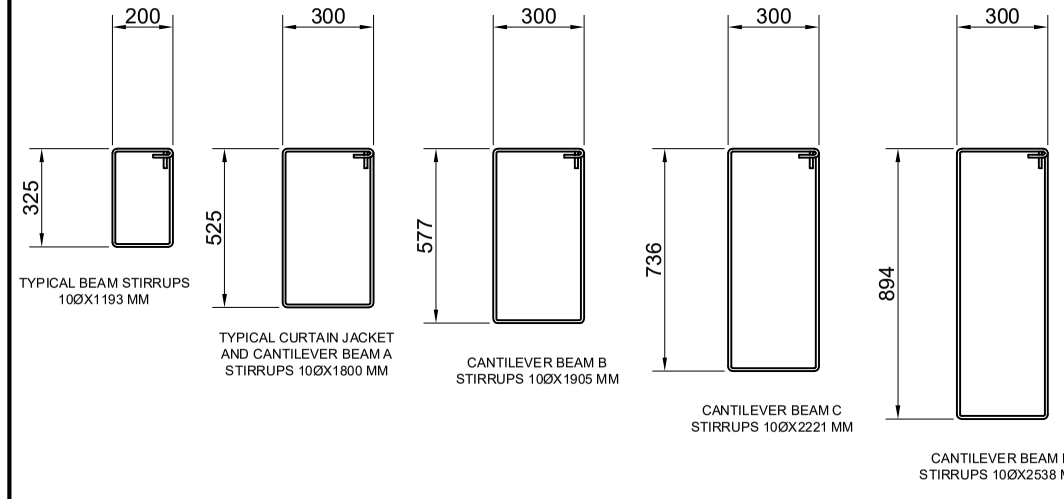
PC2A-16Ø X 4357 MM CAGE BARS

PC2B-16Ø X 6414 MM CAGE BARS

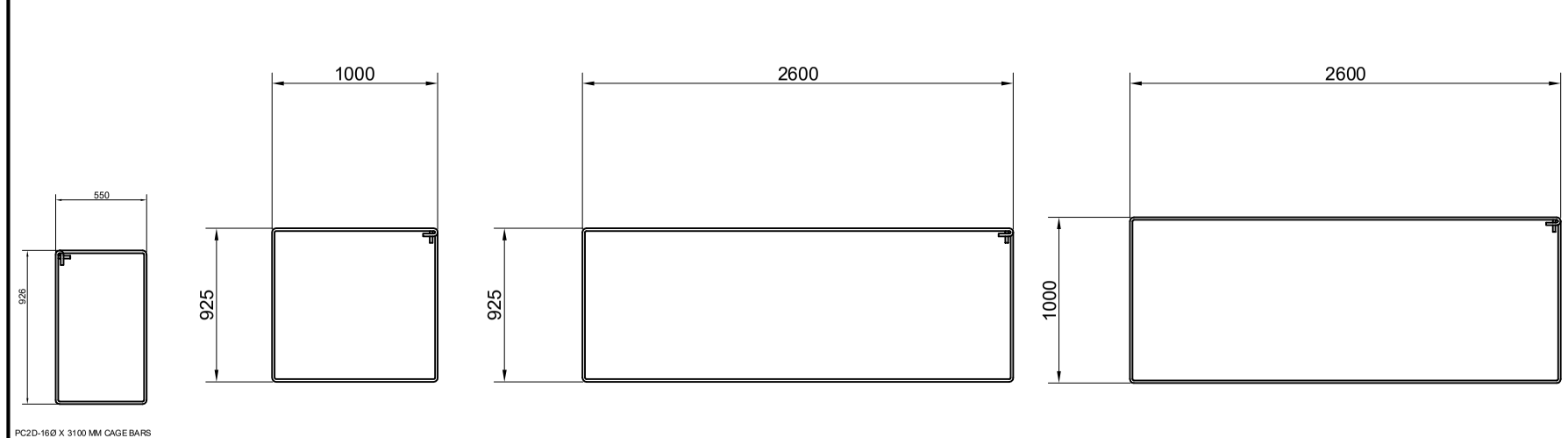
PC2C-16Ø X 2600 MM CAGE BARS

PC2D-16Ø X 3100 MM CAGE BARS

CAGE BAR OF PILE CAP 2 (PC2)
SCALE 1:15 METERS



STIRRUPS SCHEDULE
SCALE 1:25 METERS



PC2D-16Ø X 3100 MM CAGE BARS

MB-A 16-16Ø X 3959 MM CAGE BARS

MB-B 6-16Ø X 7159 MM CAGE BARS

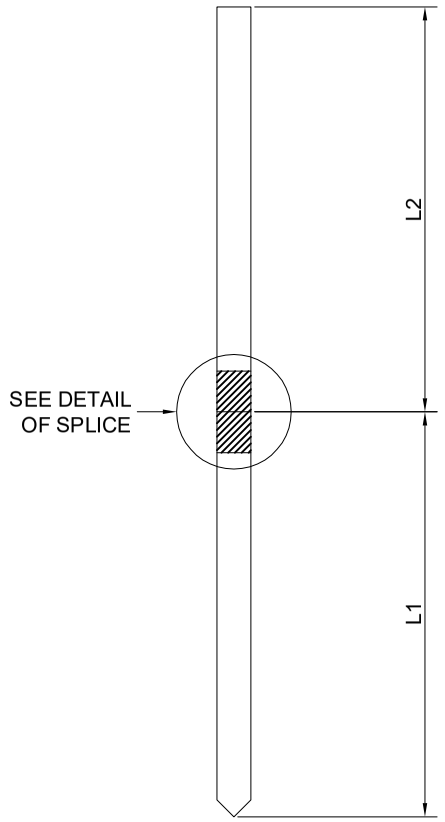
MB-C 5-16Ø X 7309 MM CAGE BARS

CAGE BAR OF MOORING BLOCK (MB)
SCALE 1:40 METERS

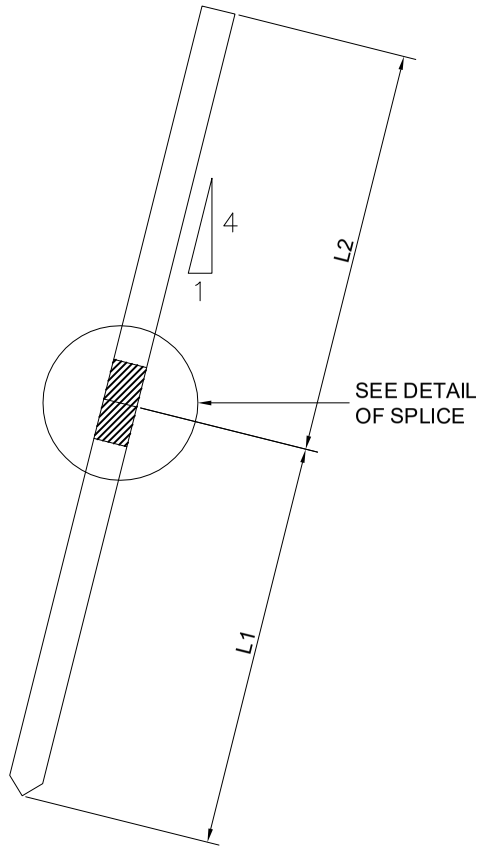
PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: Sep 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	13 OF 23

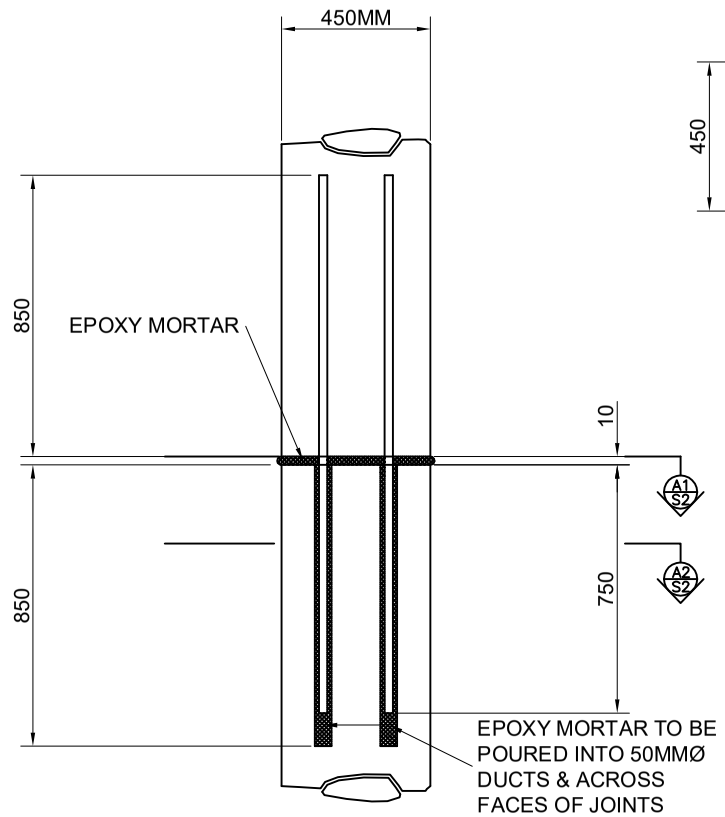
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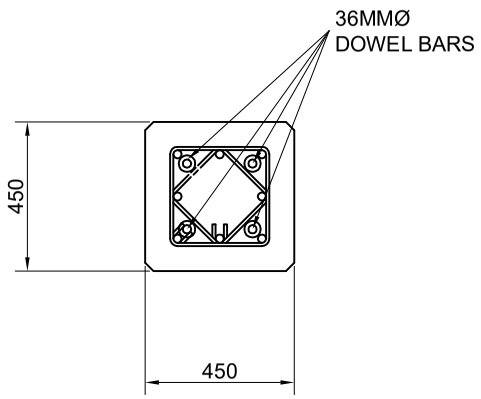


VERTICAL PILES

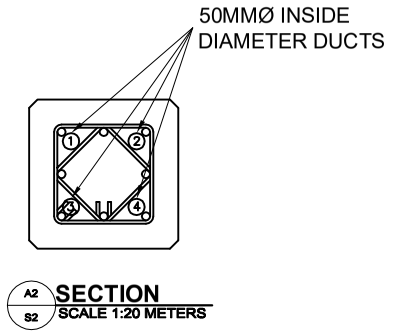


BATTER PILES



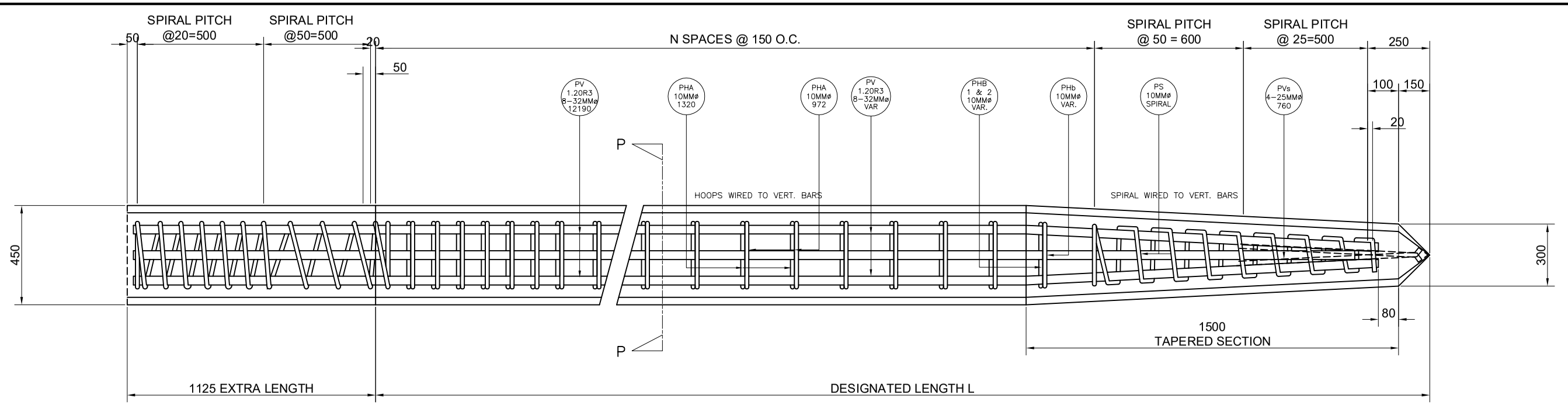


A1/S2 SECTION
SCALE 1:20 METERS



A2/S2 SECTION
SCALE 1:20 METERS

TYPICAL DETAIL OF SPLICE
SCALE 1:20 METERS



DETAILS OF STANDARD 450X450MM R.C. PILE(15.00-30.00 M)
AS SHOWN

LONGITUDINAL SECTION
SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR	RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	14 OF 23
LOCATION PALIMBANG, SULTAN KUDARAT					

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NOTE: THE 1000 MILLIMETER EXTRA LENGTH OF THE PILE BUTT MAY BE LEFT UNCAST BY THE CONTRACTOR ENGINEER A SPECIAL FOLLOWER DULY APPROVED BY THE ENGINEER IS USED TO PROTECT THE PROTRUDING REINFORCING STEEL AND PROVIDED FURTHER THAT THE REMAINING PILE BUTT SHALL BE REINFORCED WITH 10MMø SPIRAL AS SHOWN.

IF NO SPECIAL FOLLOWER IS USED THE 1000MM EXTRA LENGTH OF THE PILE BUTT SHALL BE CAST AND REINFORCED WITH 10MMø SPIRAL AND ALL EXPENSES THEREFORE TO BE SHOULDERED BY THE CONTRACTOR.

AFTER REQUIRED PENETRATION AND BEARING POWER OF PILES ARE ATTAINED AND BEFORE CASTING DECK MONOLITHIC WITH PILE HEAD ALL CONCRETING IN THE PILE BUTT SHALL BE COMPLETELY DEMOLISHED.

SPIRAL #16 WIRES AND CONCRETE IN THE 1000MM EXTRA LENGTH OF THE PILE, BUTT ARE NOT INCLUDED IN THE LIST OF MATERIALS EXCEPT VERTICAL BARS REINFORCEMENT.

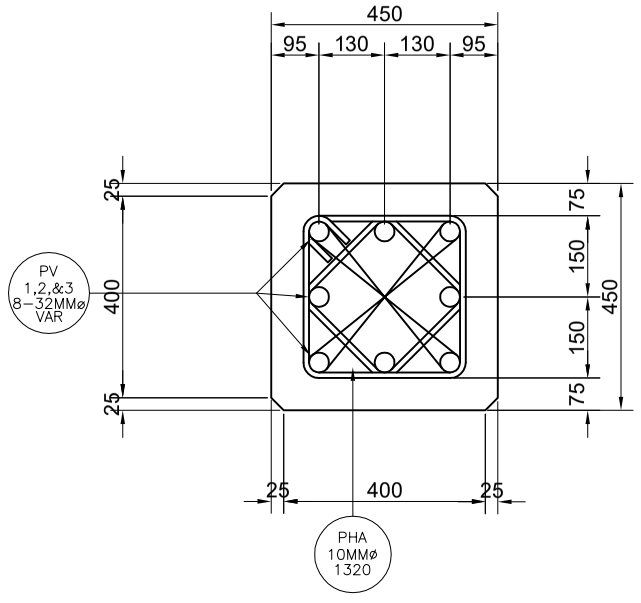
CONCRETE TO BE 31.03MPa (fc=4500 psi) AS PRESCRIBE IN THE SPECIFICATION.

PILE WHICH ARE TO BE USED FOR TIMBER SUPER-STRUCTUREMAY BE ALLOWED AN EXTRA LENGTH OF ONLY 500MM.

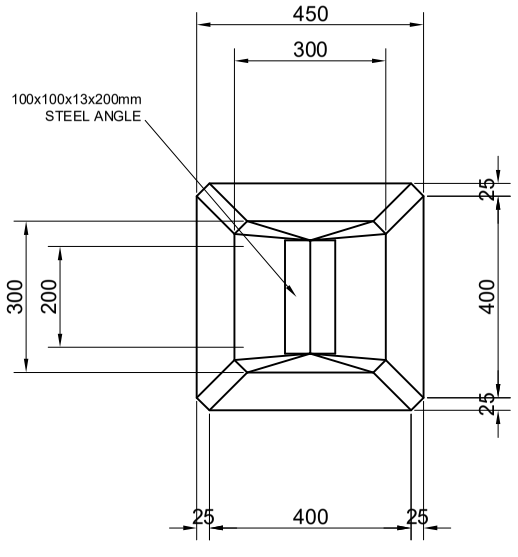
ALL DIMENSIONS ARE IN MILLIMETER.

DESIGNATED LENGTH OF PILES																
L	15000	16000	17000	18000	19000	20000	21000	22000	23000	24000	25000	26000	27000	28000	29000	30000
N	89	96	102	109	116	122	129	136	142	149	156	163	169	176	182	189
A	13350	14350	15350	16350	17350	18350	19350	20350	21350	22350	23350	24350	25350	26350	27350	28350

MATERIALS REQUIRED FOR ONE R.C. PILE								
ITEMS	15000	16000	17000	18000	19000	20000	21000	22000
32MMø BAR PV 1	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190
32MMø BAR PV 2	8@6090	8@6090	8@6090	8@6090	8@6090	8@6090	8@6090	8@6090
32MMø BAR PV x	4@760	4@760	4@760	4@760	4@760	4@760	4@760	4@760
10MMø SPIRAL PS	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960
10MMø HOOPS PHA	88@1320	95@1320	101@1320	108@1320	115@1320	121@1320	128@1320	135@1320
10MMø HOOPS PHB1	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320
10MMø HOOPS PHB2	1@972	1@972	1@972	1@972	1@972	1@972	1@972	1@972
10MMø HOOPS PHa	88@972	95@972	101@972	108@972	115@972	121@972	128@972	135@972
10MMø HOOPS PHb	2@972	2@972	2@972	2@972	2@972	2@972	2@972	2@972
100X100X13MM ANGLE	1@200	1@200	1@200	1@200	1@200	1@200	1@200	1@200
#12 GA. WIRE (LIN.MM)	33553	35650	37748	39845	41942	44039	46136	48233
CLASS A CONC. (CU.M.)	2.94	3.15	3.36	3.57	3.78	3.99	4.20	4.41
ITEMS	23000	24000	25000	26000	27000	28000	29000	30000
25MMø BAR PV 1	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190	8@12190
25MMø BAR PV 2	8@7100	8@9140	8@9140	8@9140	8@9140	8@9140	8@9140	8@9140
25MMø BAR PV 3	8@6090	8@6090	8@6090	8@7100	8@9140	8@9140	8@12190	8@12190
25MMø BAR PV x	4@760	4@760	4@760	4@760	4@760	4@760	4@760	4@760
10MMø SPIRAL PS	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960	2@3960
10MMø HOOPS PHA	141@1320	148@1320	155@1320	162@1320	168@1320	175@1320	181@1320	188@1320
10MMø HOOPS PHB1	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320	1@1320
10MMø HOOPS PHB2	1@972	1@972	1@972	1@972	1@972	1@972	1@972	1@972
10MMø HOOPS PHa	141@972	148@972	155@972	162@972	168@972	175@972	181@972	188@972
10MMø HOOPS PHb	2@972	2@972	2@972	2@972	2@972	2@972	2@972	2@972
90X90X13MM ANGLE	1@200	1@200	1@200	1@200	1@200	1@200	1@200	1@200
#12 GA. WIRE (LIN.MM)	33553	35650	37748	39845	41942	44039	46136	48233
CLASS A CONC. (CU.M.)	4.62	4.83	5.04	5.25	5.45	5.67	5.88	6.09



SECTION P-P
SCALE 1:15 METERS



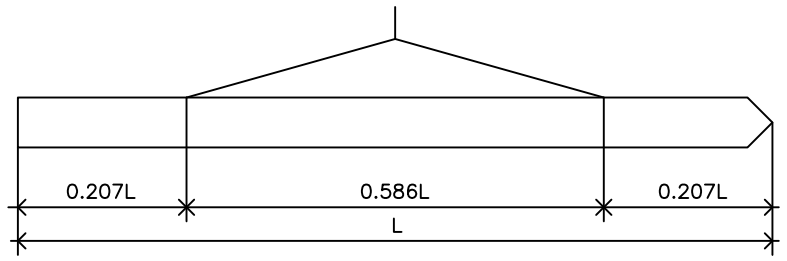
VIEW OF TIP
SCALE 1:15 METERS

DETAILS OF STANDARD 450X450MM R.C. PILE(15.00-30.00 M)
AS SHOWN

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

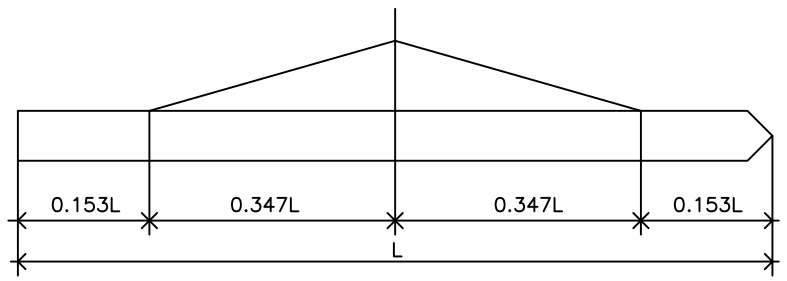
PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO, ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES, ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA, ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR., ACTING PORT MANAGER	15 OF 23

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LIFTING POINTS FOR TWO POINT PICK–UP

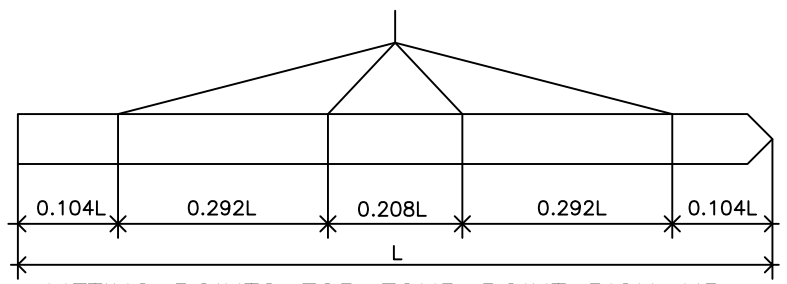
NOTE: TWO POINT PICK–UP METHOD OF LIFTING PILES SHALL BE:
USED FOR THE 12000–15000MM LENGTH OF R.C. PILES (450X450)
USED FOR THE 12000–15000MM LENGTH OF R.C. PILES (400X400)



LIFTING POINTS FOR THREE POINT PICK–UP

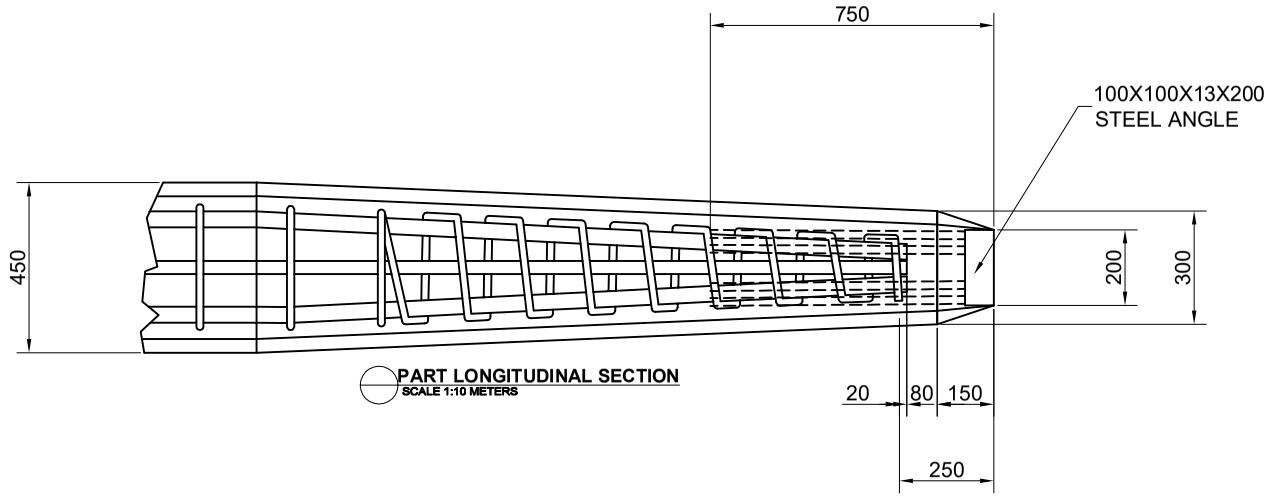
THREE POINT PICK–UP METHOD OF LIFTING PILES SHALL BE:
USED FOR THE 15000–23000MM LENGTH OF R.C. PILES (450X450)
USED FOR THE 16000–23000MM LENGTH OF R.C. PILES (400X400)

NOTE:

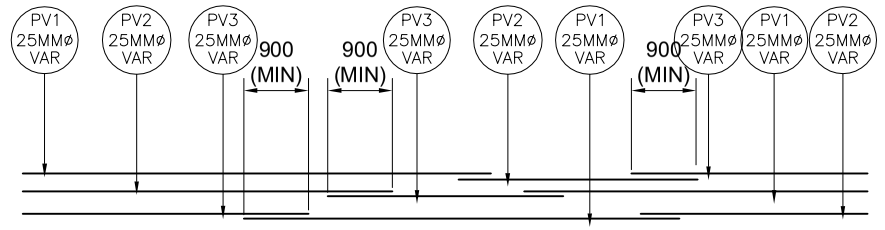


LIFTING POINTS FOR FOUR POINT PICK–UP

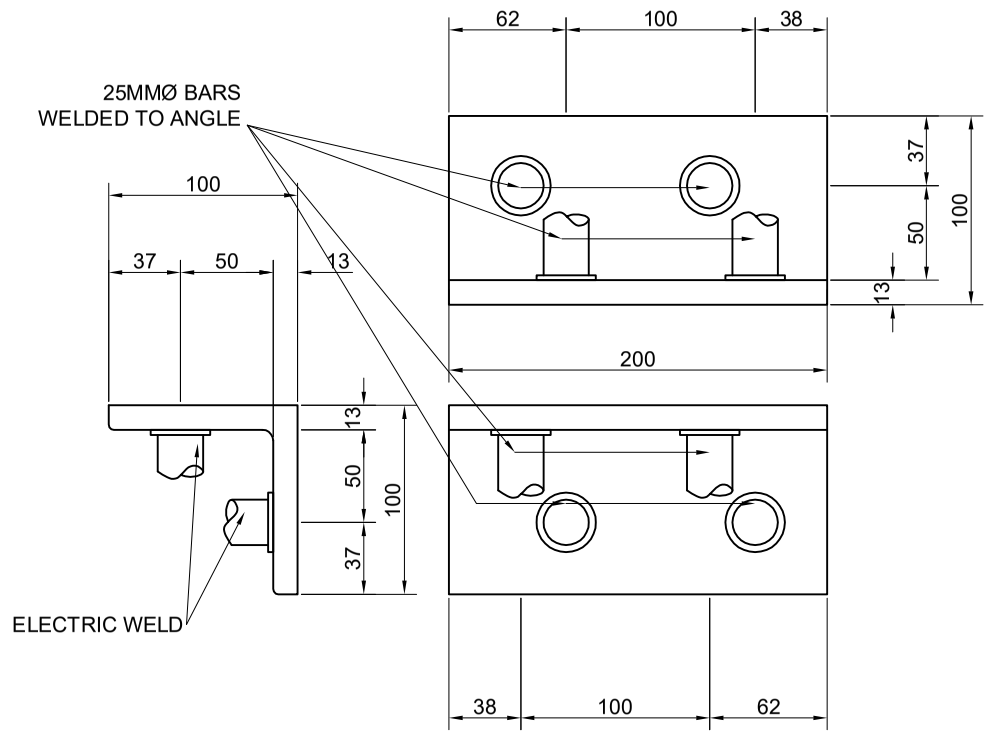
NOTE: FOUR POINT PICK–UP METHOD OF LIFTING PILES SHALL BE:
USED FOR THE 24000–30000MM LENGTH OF R.C. PILES (450X450)
USED FOR THE 24000–30000MM LENGTH OF R.C. PILES (400X400)



PART LONGITUDINAL SECTION
SCALE 1:10 METERS



SPLICE DIAGRAM OF LONGITUDINAL BARS
NOT TO SCALE

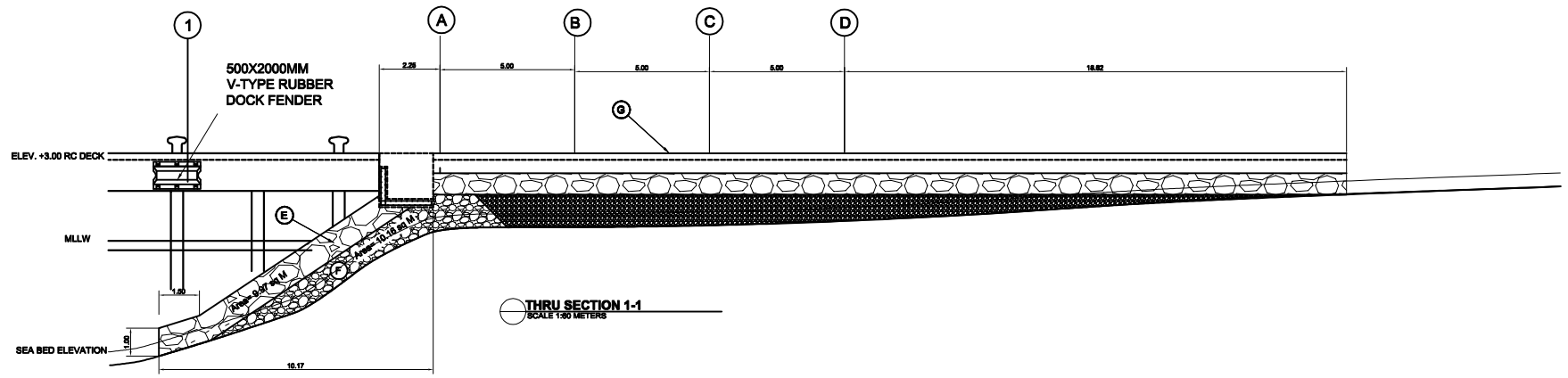


100X100X13X200MM STEEL ANGLE FOR PILE TIP
SCALE 1:4 METERS

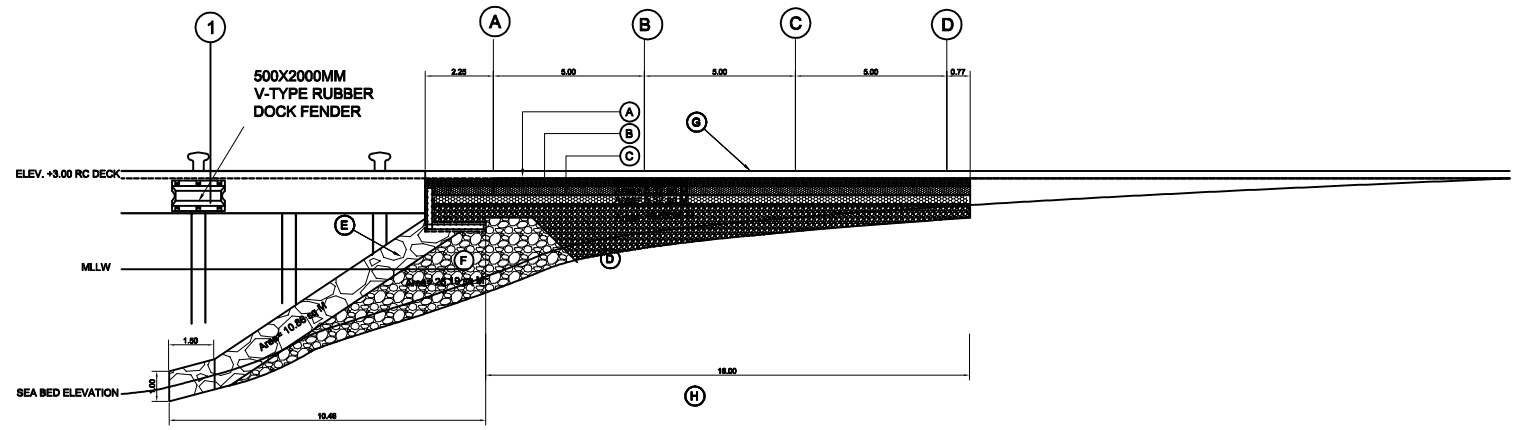
DETAILS OF STANDARD 450X450MM R.C. PILE(15.00-30.00 M)
AS SHOWN

PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE	PROJECT TITLE PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR LOCATION PALIMBANG, SULTAN KUDARAT	DRAWN/CAD BY: RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	REVIEWED BY: SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	RECOMMENDING APPROVAL: BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	APPROVED BY: ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	DATE: Sep 10, 2015 16 OF 23

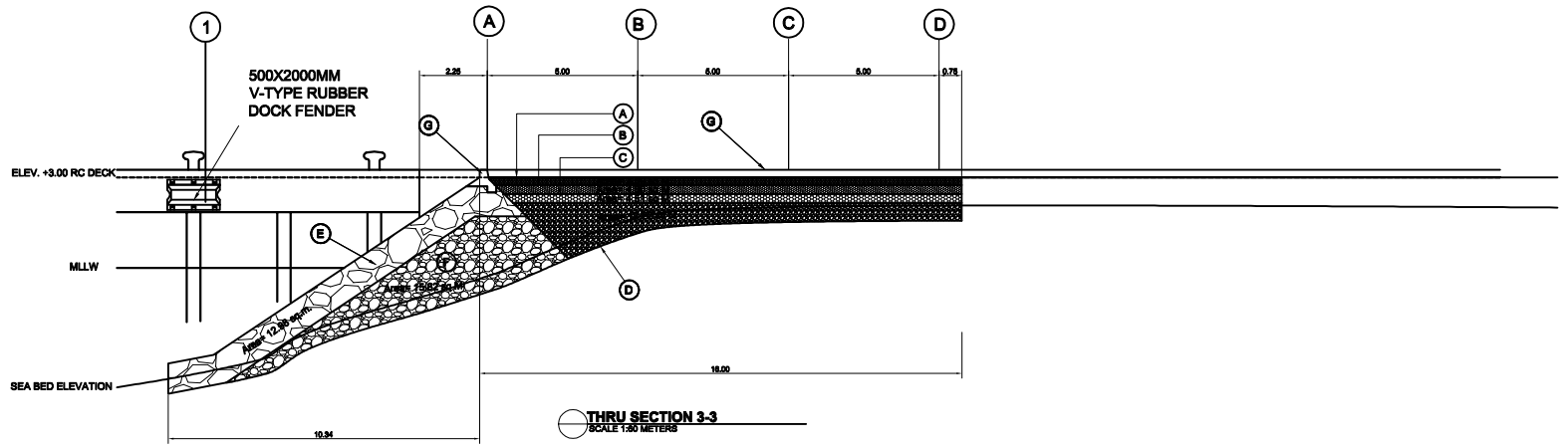
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THRU SECTION 1-1
SCALE 1:50 METERS



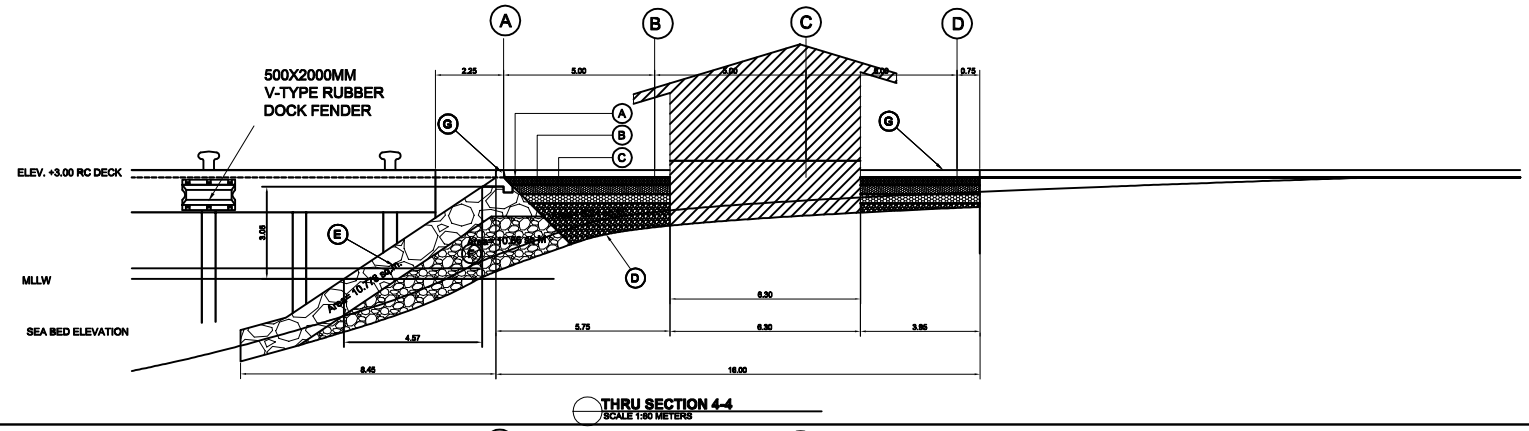
THRU SECTION 2-2
SCALE 1:50 METERS



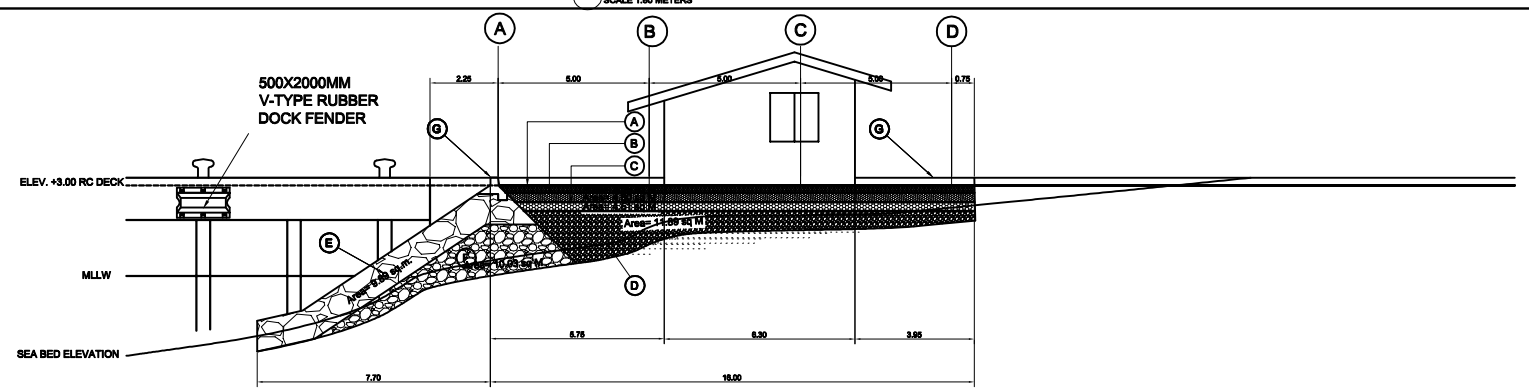
THRU SECTION 3-3
SCALE 1:50 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

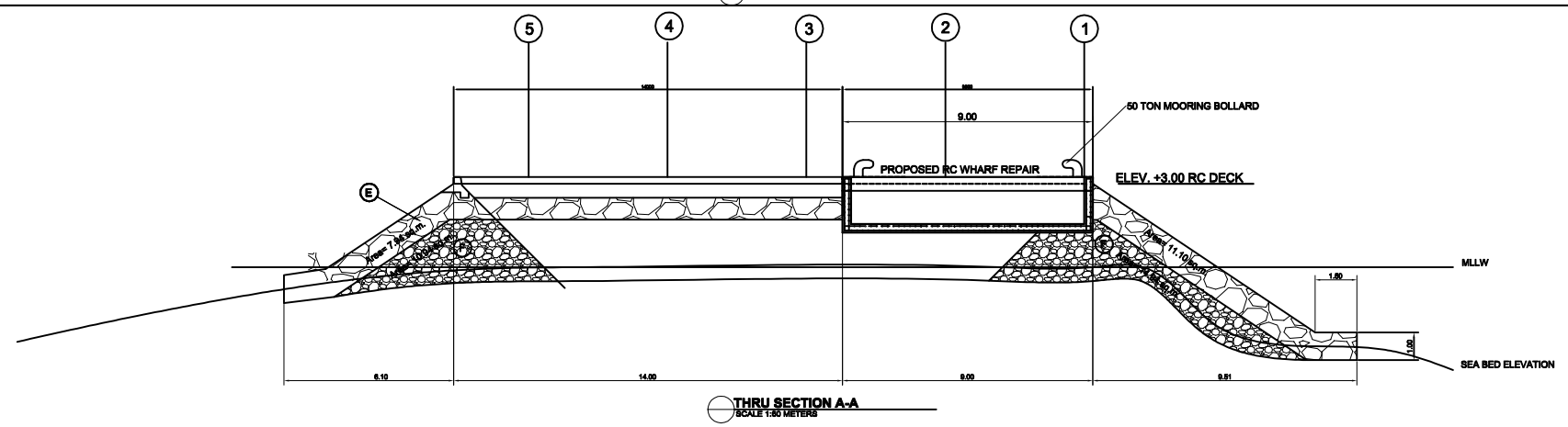
PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: June 15, 2017
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR		SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	17 OF 23
LOCATION PALIMBANG, SULTAN KUDARAT					



THRU SECTION 4-4
SCALE 1:50 METERS

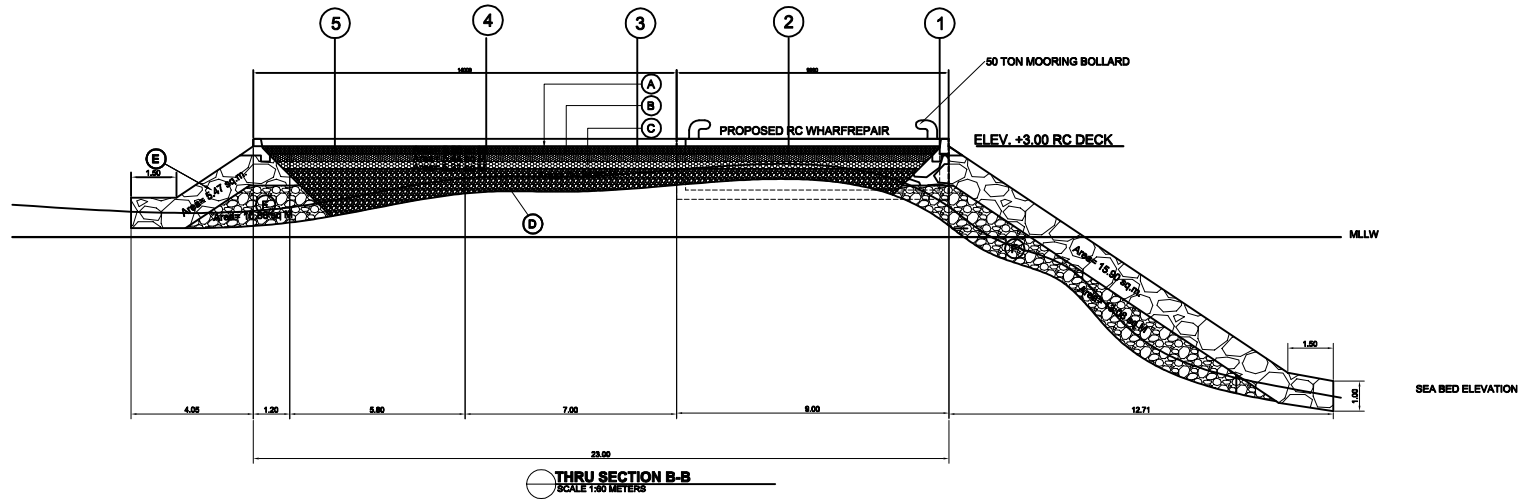


THRU SECTION 5-5
SCALE 1:50 METERS

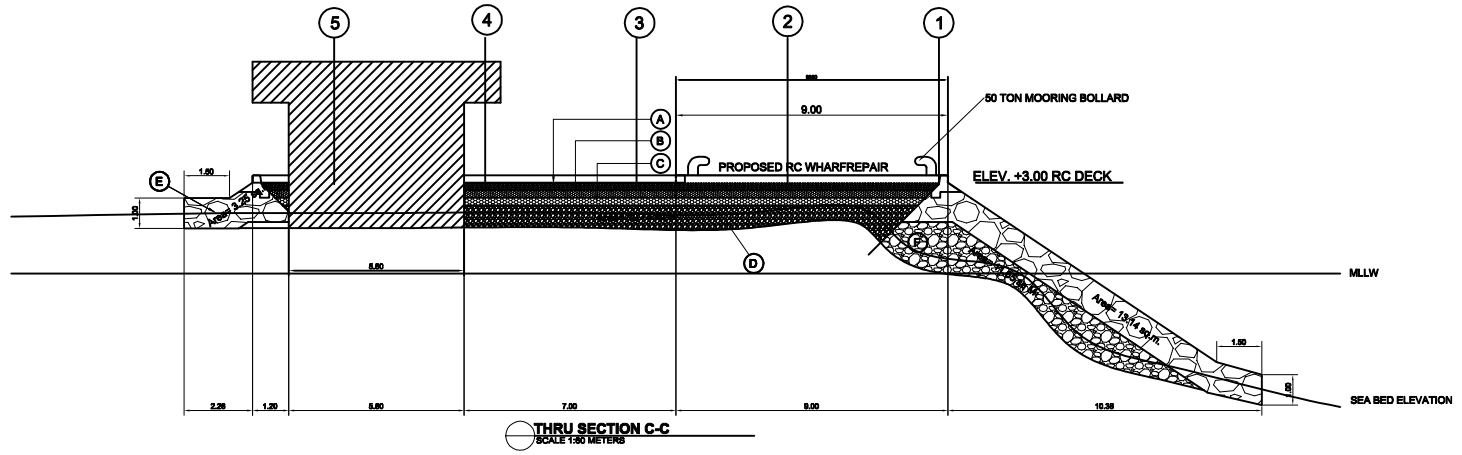


THRU SECTION A-A
SCALE 1:50 METERS

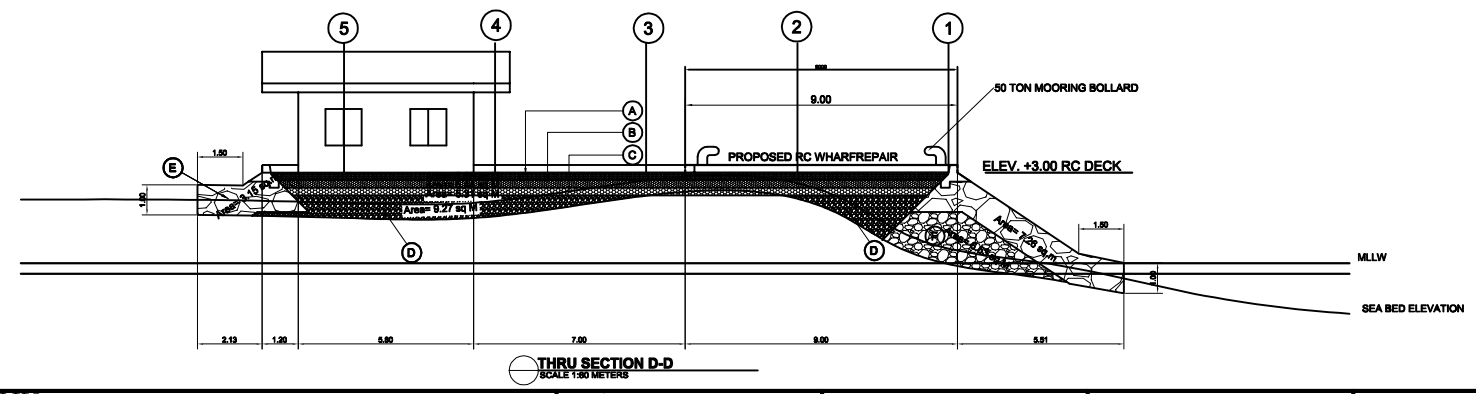
PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE	PROJECT TITLE PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR LOCATION PALIMBANG, SULTAN KUDARAT	DRAWN/CAD BY:	REVIEWED BY: SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	RECOMMENDING APPROVAL: BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	APPROVED BY: ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	DATE: Sep10, 2015 18 OF 23



THRU SECTION B-B
SCALE 1:50 METERS



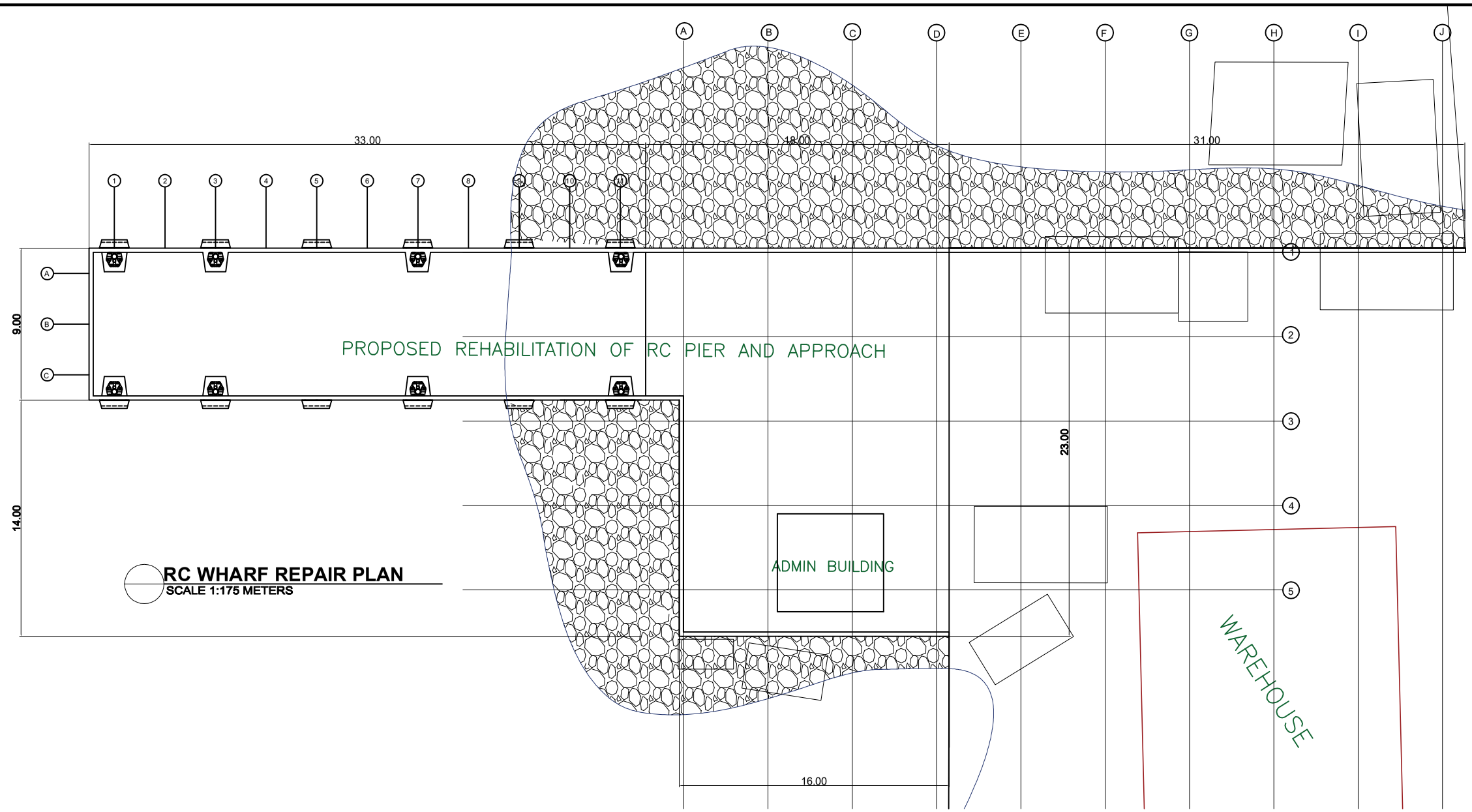
THRU SECTION C-C
SCALE 1:50 METERS



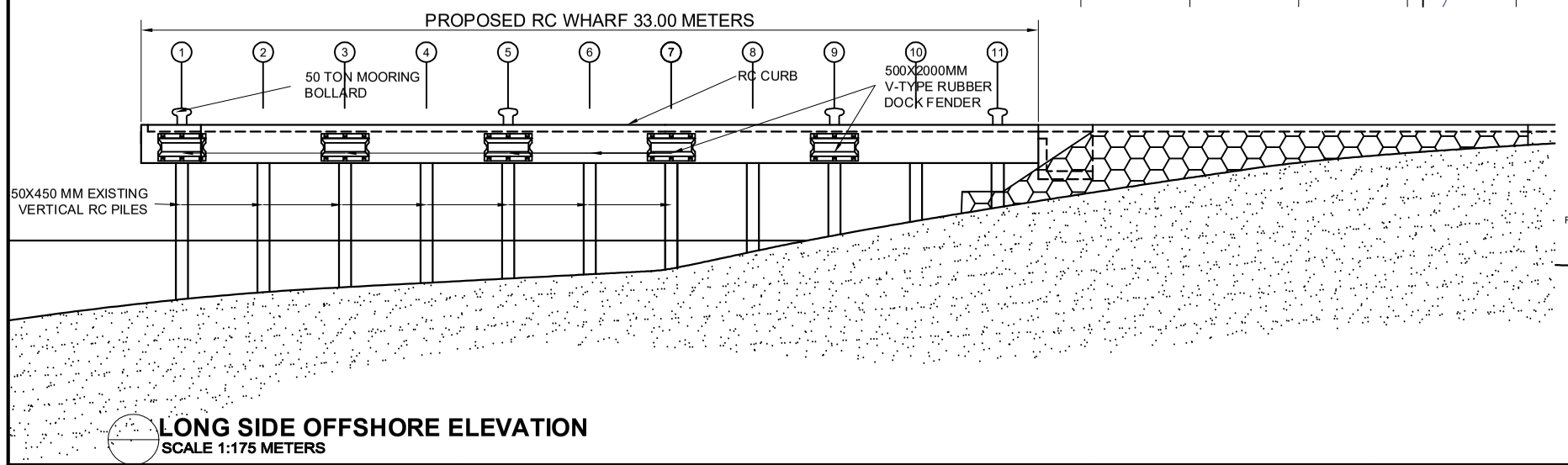
THRU SECTION D-D
SCALE 1:50 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

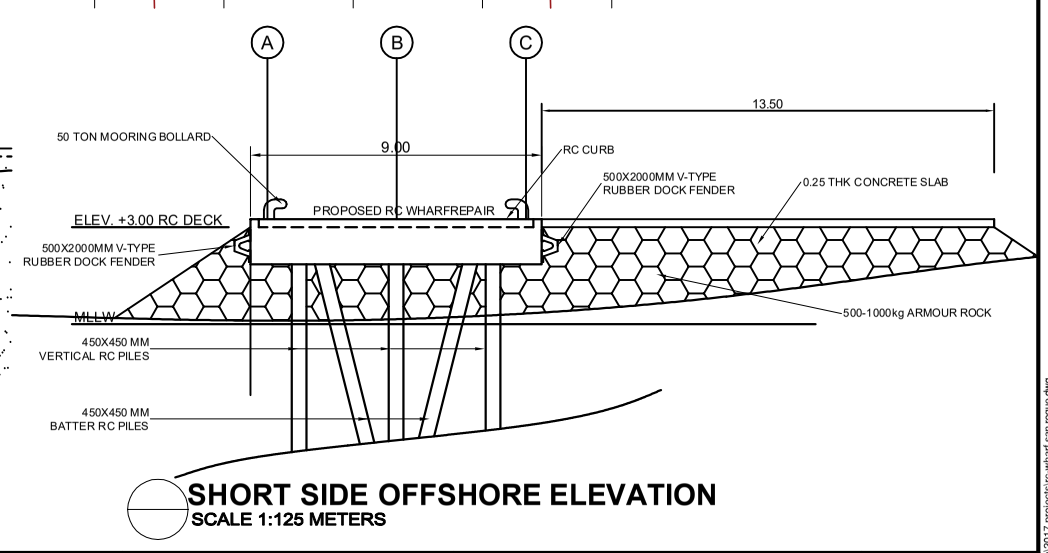
PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: Sep 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR		SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	19OF 23
LOCATION					
PALIMBANG, SULTAN KUDARAT					



RC WHARF REPAIR PLAN
SCALE 1:175 METERS



LONG SIDE OFFSHORE ELEVATION
SCALE 1:175 METERS

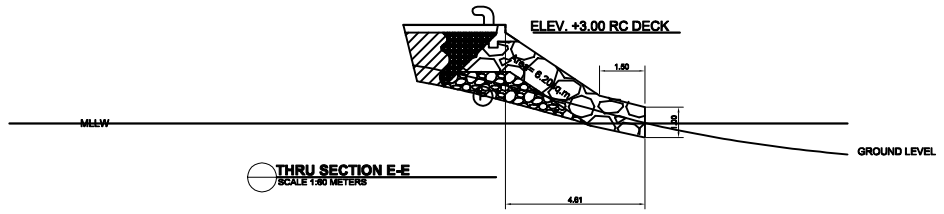


SHORT SIDE OFFSHORE ELEVATION
SCALE 1:125 METERS

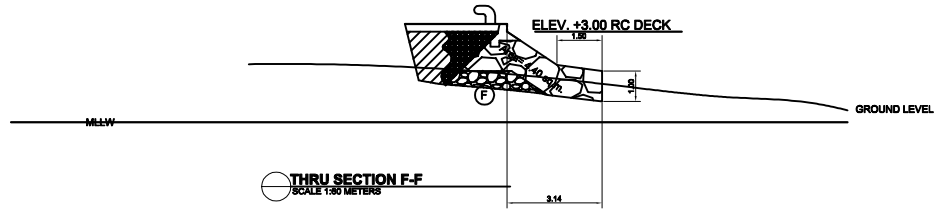
PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR	RODSKIE P. RAGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	2 OF 23
LOCATION PALIMBANG, SULTAN KUDARAT					

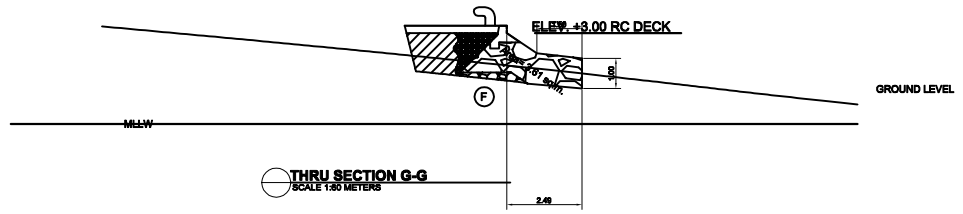
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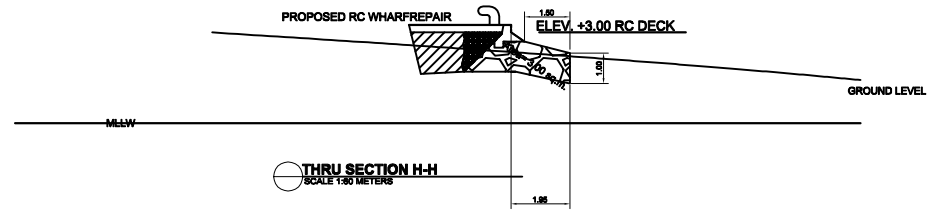
THRU SECTION E-E
SCALE 1:50 METERS



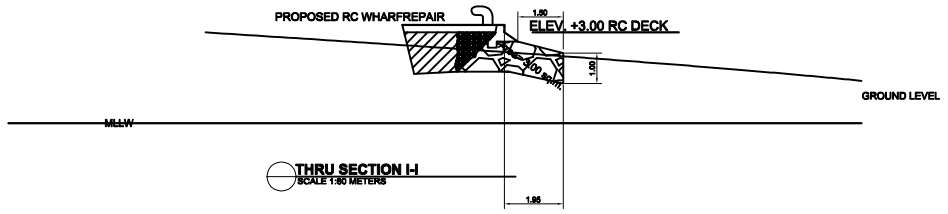
THRU SECTION F-F
SCALE 1:50 METERS



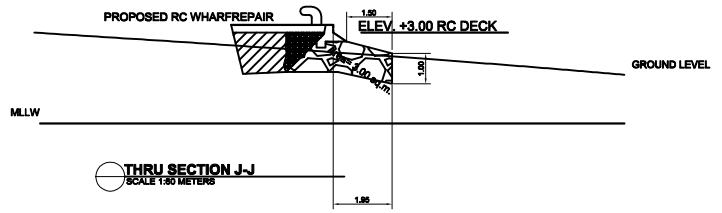
THRU SECTION G-G
SCALE 1:50 METERS



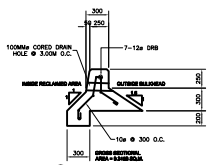
THRU SECTION H-H
SCALE 1:50 METERS



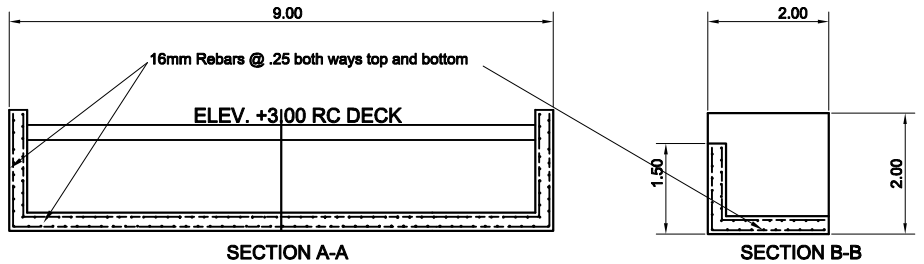
THRU SECTION I-I
SCALE 1:50 METERS



THRU SECTION J-J
SCALE 1:50 METERS

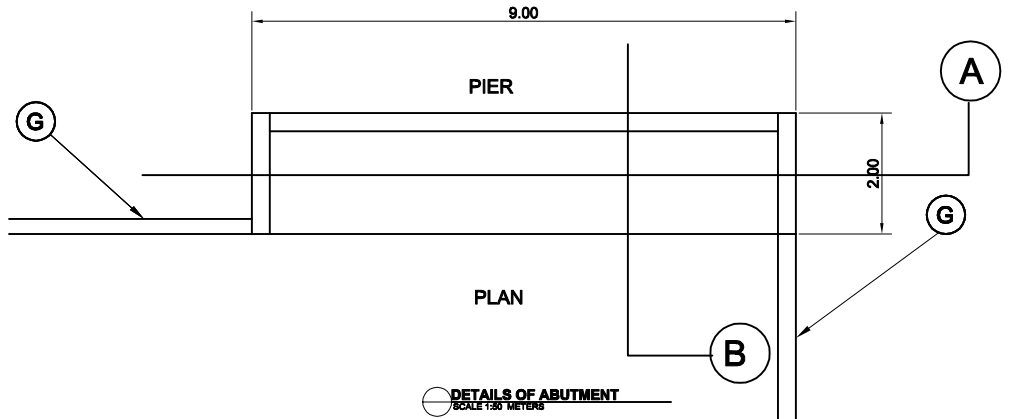


CONC. CURB DETAIL
SCALE 1:20 METERS



SECTION A-A

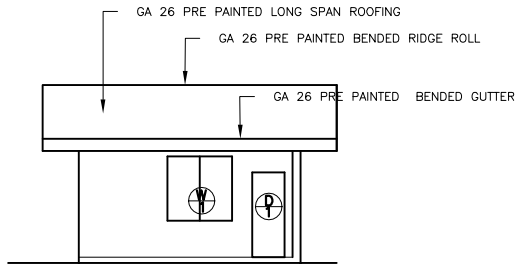
SECTION B-B



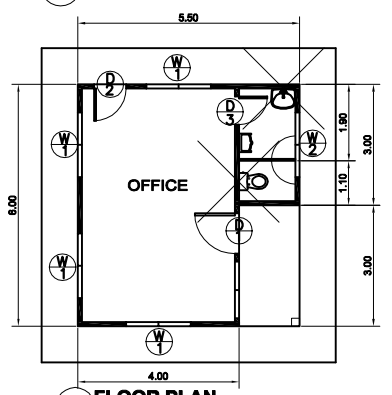
DETAILS OF ABUTMENT
SCALE 1:50 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

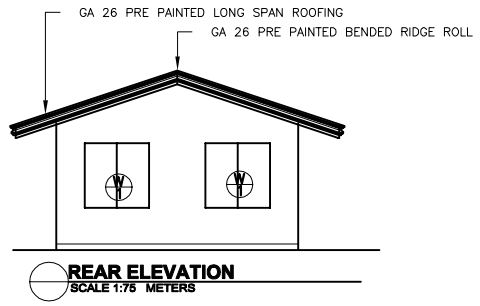
PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: Sep 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR		SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	20 OF 23
LOCATION					
PALIMBANG, SULTAN KUDARAT					



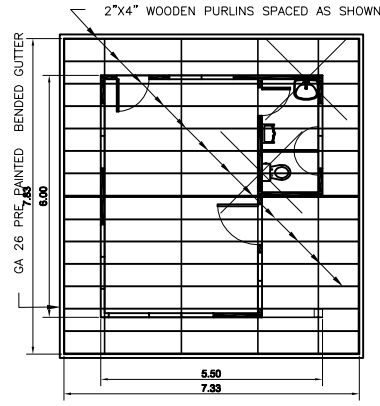
LEFT ELEVATION
SCALE 1:75 METERS



FLOOR PLAN
SCALE 1:75 METERS



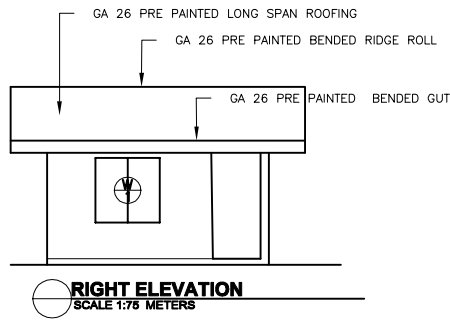
REAR ELEVATION
SCALE 1:75 METERS



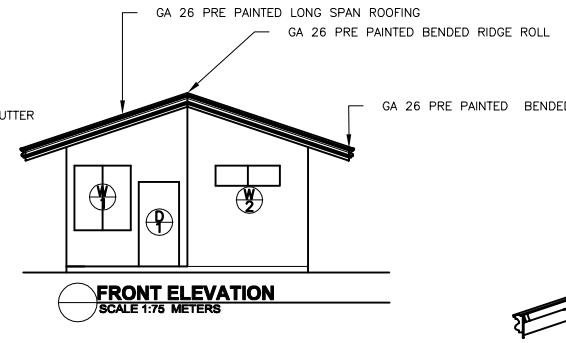
ROOF FRAMING PLAN
SCALE 1:75 METERS

SCHEDULE OF DOORS AND WINDOWS

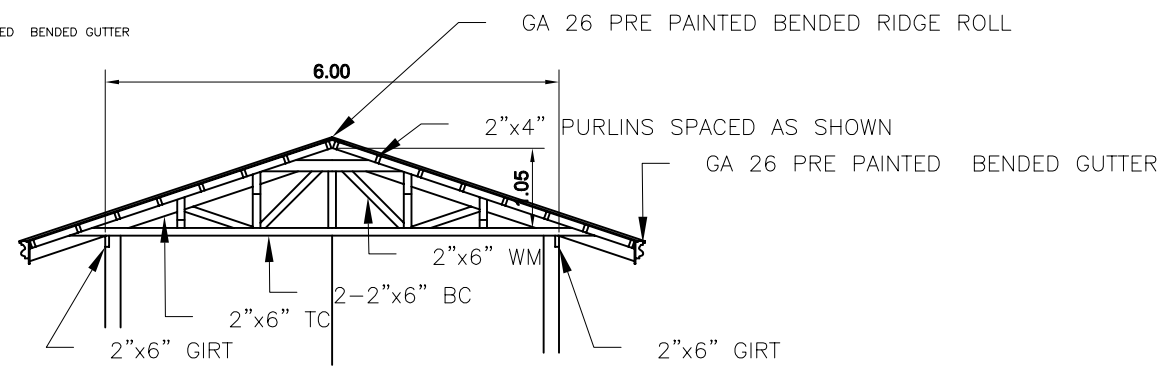
MARKING	QUANTITY	DIMENSION	DESCRIPTION
D 1	1	1.00 X 2.10 M	1/4"THK CLEAR GLASS ON ANALOK ALUMINUM FRAME SINGLE SWING DOOR
D 2	1	0.70X 2.10 M	HARD CORE WOODEN PANEL SINGLE SWING DOOR
D 3	1	0.70 X 2.10 M	1/4" MARINE PLYWOODHOLLOW CORE SINGLE SWING WOODEN DOOR
W 1	5	0.70 X 1.20 M	1/4"THK CLEAR GLASS ON ANALOK ALUMINUM FRAME DOUBLE PANEL WINDOW
W 2	1	0.70 X 0.60 M	1/4"THK CLEAR GLASS ON ANALOK ALUMINUM FRAME DOUBLE PANEL WINDOW



RIGHT ELEVATION
SCALE 1:75 METERS



FRONT ELEVATION
SCALE 1:75 METERS

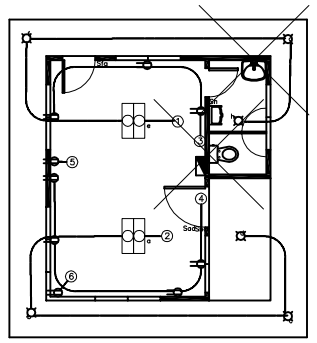


TRUSS DETAIL
SCALE 1:40 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: Sep 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT		SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	21OF 23

ELECTRICAL LAYOUT



SCHEDULE OF LOADS

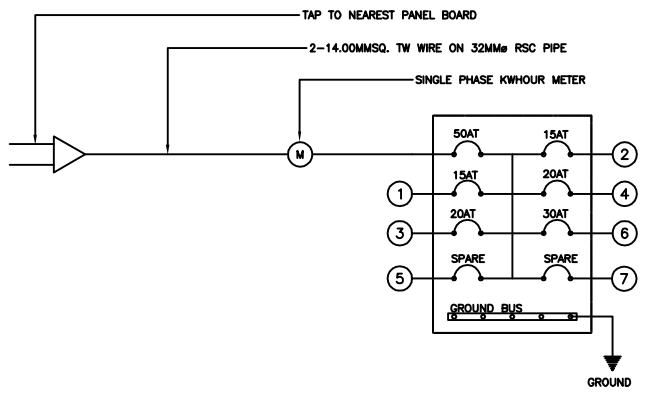
MAIN DISTRIBUTION PANEL

CKT. NO.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	WATTS	AMPERE PER CKT.	NO. OF POLE	BRANCH PROTECTION	SIZE OF WIRE & CONDUIT
1	2-2/40w F-Lamp w/Lumenaires 3-11watts Downlight	4	230	182	0.79	2	15AT	2-3.5MM2 THW WIRE.15MMø
2	2-2/40w F-Lamp w/Lumenaires 3-11watts Downlight	6	230	204	0.87	2	15AT	2-3.5MM2 THW WIRE.15MMø
3	3-2/180VA Convenience Outlet	3	230	1080	4.70	2	20AT	2-3.5MM2 THW WIRE.15MMø
4	4-2/180VA Convenience Outlet	5	230	1800	7.83	2	20AT	2-3.5MM2 THW WIRE.15MMø
5	1-1.0hp Airconditioning Unit	1	230	1840	8.00	2	30AT	2-5.5MM2 THW WIRE.15MMø
6	1-1.0hp Airconditioning Unit	1	230	1840	8.00	2	30AT	
7	SPARE			1000				
				7946	38.89	2	60AT	2-14.00MM2 TW WIRE.32MMø

LEGEND

- DOWNLIGHT, 11WATTS
- F-LAMP ASSEMBLY, 2/40WATTS
- CONVENIENCE OUTLET
- acu — AIRCON OUTLET
- CIRCUIT LINE
- SERVICE ENTRANCE CAP
- CIRCUIT BREAKER
- M — METER
- PANEL BOARD
- CIRCUIT HOMERUN
- Sa — SINGLE GANG SWITCH
- Sab — DOUBLE GANG SWITCH
- Sabc — TRIPLE GANG SWITCH

SINGLE LINE DIAGRAM



NOTES AND SPECIFICATION

* ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST PHILIPPINE ELECTRICAL CODE, LOCAL ORDINANCES OF THE CITY AND THE REQUIREMENTS OF THE LOCAL POWER UTILITY COMPANY.
* ALL INSTALLATIONS SHALL BE IN RIGID STEEL CONDUIT EXPOSED ALONG STRUCTURAL FRAMES OR MEMBERS BUT EMBEDDED ALONG CONCRETE FLOORS AND WALLS.
* EXPOSED CONDUITS AND OTHER DEVICES INSTALLAED ALONG THE WALLS UP TO 0.10M FROM THE FLOOR LINE MUST BE PROVIDED WITH SOME KIND OF MECHANICAL PROTECTION AS MAY BE DIRECTED BY THE PROJECT ENGINEER.
* ALL WIRES TO BE USED SHALL BE TYPE TW&THW UNLESS OTHERWISE SPECIFIED.
* CONVENIENCE AND POWER OUTLETS SHALL BE MOUNTED 25MM WHILE LOCAL CONTROL SWITCHES 1.37M FROM THE FLOOR LINE.
* ALL ELECTRICAL INSTALLATIONS SHALL BE SUPERVISED BY A DULY REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

NOTES AND SPECIFICATION

ALL PLUMBING WORKS AND INSTALLATION SHALL SHALL CONFORM WITH THE LATEST PROVISIONS OF THE NATIONAL PLUMBING CODE, RULES AND REGULATIONS OF THE ENFORCING AUTHORITY AND CITY ORDINANCES;

FOR SANITARY LINES;(USE PVC PIPES, SCH.40)

A) 2" DIA. FOR VENT AND FIXTURES

B) 4" DIA. FOR MAIN AND WATER CLOSET

FOR WATER LINES

A) 1/2" DIA. FOR FIXTURES

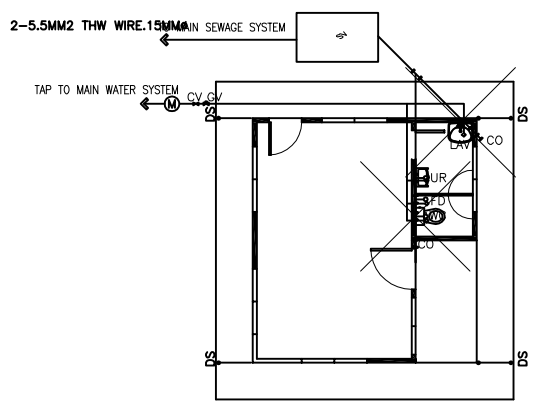
B) 1/2" DIA. FOR BRANCHES

C) 1/2" FOR MAIN LINE

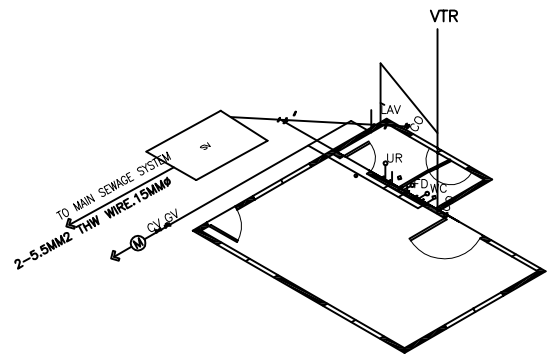
ALL WORKS AND INSTALLATION SHALL BE DONE OR LAID UNDER CLOSED SUPERVISION OF A LICENSED MASTER PLUMBER.

LEGEND:

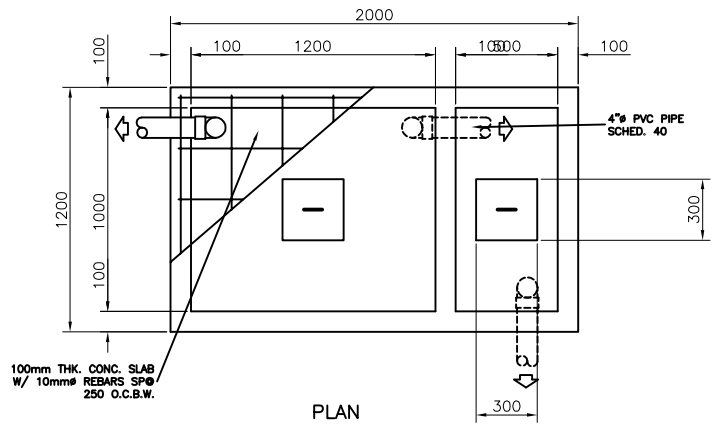
- VTR – VENT THRU ROOF
- VS – VENT STACK
- VP – VENT PIPE
- WC – WATER CLOSET
- FD – FLOOR DRAIN
- CO – CLEAN OUT
- KS – KICHEN SINK
- F – FAUCET
- GV – GATE VALVE
- SV – SEPTIC VAULT
- M – WATER METER
- ---------- – WATERLINE
- SS – SOIL STACK
- SHO – SHOWER
- ———— – SOIL PIPE
- CB – CATCH BASIN
- DS – DOWNSPOUT



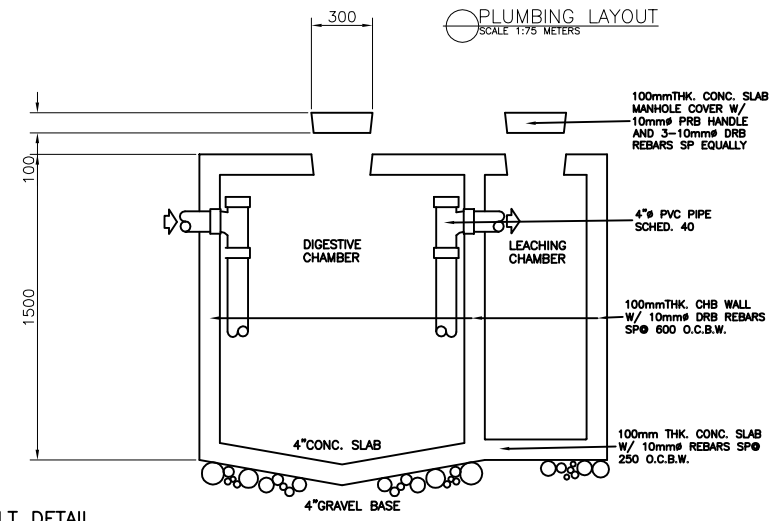
PLUMBING LAYOUT
SCALE 1:50 METERS



PLUMBING LAYOUT
SCALE 1:75 METERS



PLAN



SECTION

SEPTIC VAULT DETAIL
SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE: PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR

LOCATION: PALIMBANG, SULTAN KUDARAT

DRAWN/CAD BY: ORIGINAL SIGNED

REVIEWED BY: ORIGINAL SIGNED
SOLLITO C. ROSALES
ACTING CONSTRUCTION FOREMAN

RECOMMENDING APPROVAL: ORIGINAL SIGNED
BELTZASAR L. GELLA
ACTING DIVISION MANAGER, ESD

APPROVED BY: ORIGINAL SIGNED
ASTERIO C. GALLARDO JR.
ACTING PORT MANAGER

DATE: Sep 10, 2015

D:\cad\BLOCKS\PPALOGO.bmp

Km. 10, Port Area, Sasa, Davao City

Project: PROPOSED 33 LM SAN ROQUE (MILBUK) PORT REPAIR
Location: SAN ROQUE, PALIMBANG SULTAN KUDARAT
Cost: Php XX,XXX,XXX.XX
Fund Source/s: Corporate Funds

IMPLEMENTING AGENCY: PHILIPPINES PORTS AUTHORITY
CONTRACTOR: XXXXXXX
BRIEF DESCRIPTION OF PROJECT: 21 METERS RC WHARF EXTENSION

PROJECT DETAILS:

PROJECT DATE			PROJECT STATUS				REMARKS
DURATION	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF (DATE)	COST INCURRED TO DATE	DATE COMPLETED	

FOR PARTICULARS OR COMPLAINTS ABOVE THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

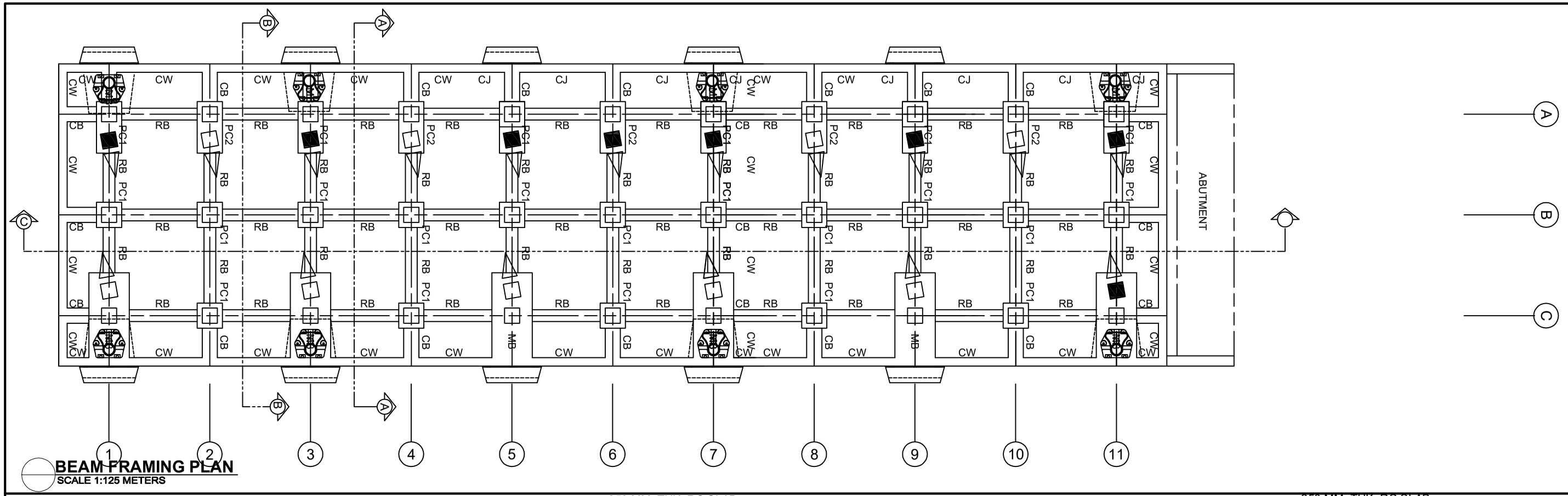
COA REGIONAL OFFICE NO./CLUSTER: _____
ADRESS:_____
CONTACT NO.:_____ OR TEXT COA CITIZEN'S DESK AT 0915-539-1975.

NOTE: TARPAULIN WHITE 8 FEET BY 8 FEET. RESOLUTION: 70 dpi. FONT: HELVETICA. FONT SIZE: MAIN INFORMATION - 3", SUB-INFORMATION - 1". FONT COLOR: BLACK. (BASE ON COA CIRCULAR NO. 2013-004 DATED JANUARY 30, 2013. "INFORMATION AND PUBLICITY ON PROGRAMS / PROJECTS / ACTIVITIES OF GOVERNMENT AGENCIES".

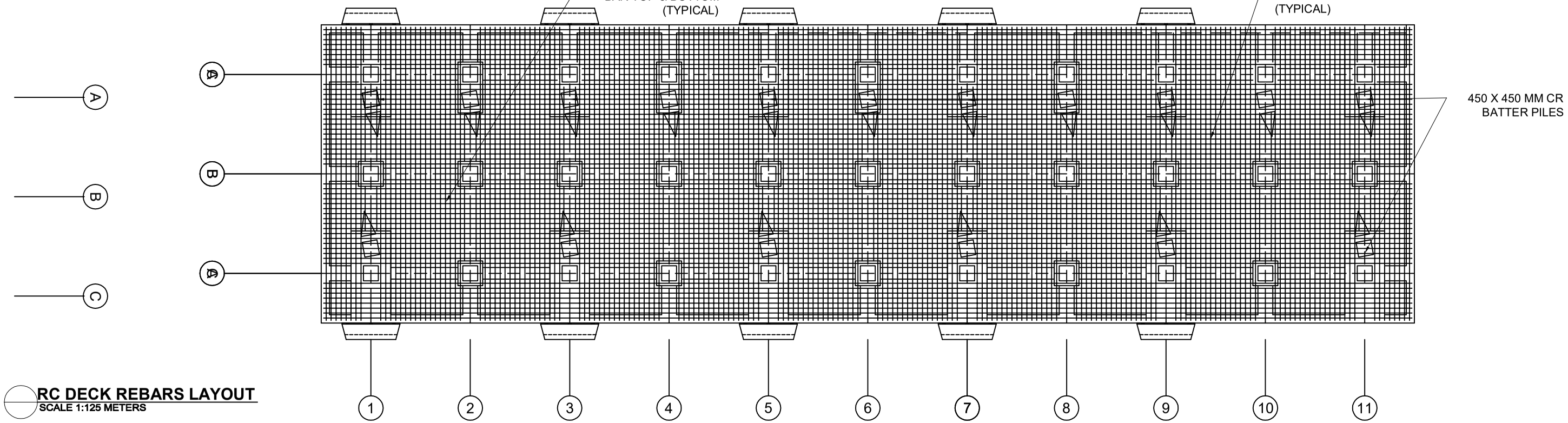
COA STANDARD BILLBOARD DESIGN
SCALE 1:15 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE:
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR		SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	23 OF 23
LOCATION PALIMBANG, SULTAN KUDARAT					



BEAM FRAMING PLAN
SCALE 1:125 METERS



RC DECK REBARS LAYOUT
SCALE 1:125 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. RAGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	3 OF 23

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GENERAL NOTES

ALL DIMENSIONS ARE IN MILLIMETER EXCEPT OTHERWISE SPECIFIED. ALL ELEVATIONS ARE IN METERS AND BASED ON MLLW, ELEV. 0.00 ALL CONCRETE SHALL HAVE A CYLINDER STRENGTH OF 28 DAYS EQUAL TO f = 240 KG/CM² (3500 PSI) UNLESS SPECIFIED. THE MAXIMUM SIZE OF COARSE AGGREGATE SHOULD NOT BE LARGER THAN ONE FIFTH OF THE NARROWEST DIMENSIONS OF THE BEAM OR ONE THIRD OF THE DEPTH OF SLABS OR THREE QUARTERS OF THE MIXIMUM DISTANCE BETWEEN REINFORCING BARS W/C EVER LESSER.

CONCRETE COVER SHOULD BE THE FOLLOWING EXCEPT OTHERWISE SPECIFIED:

1. SLAB & BEAMS - TOP BARS = 100MM, BOTTOM BARS = 75MM
2. ETC = 75MM
3. PILE = 100MM

ALL REINFORCING BARS SHALL BE WELDABLE AND HAVE A YIELD STRESS EQUAL TO f = 2804 KG/CM² (275 Mpa) EXCEPT OTHERWISE SPECIFIED. DEVELOPMENT LENGTH ANCHORAGE OF BARS AND BAR SPLICES SHOULD CONFORM TO THE ACI CODE OF 1989.

SPLICE JOINT OF PILES SHALL BE NOT LESS THAN 3.00 METERS BELOW SEABED.

LENGTH OF RC PILES

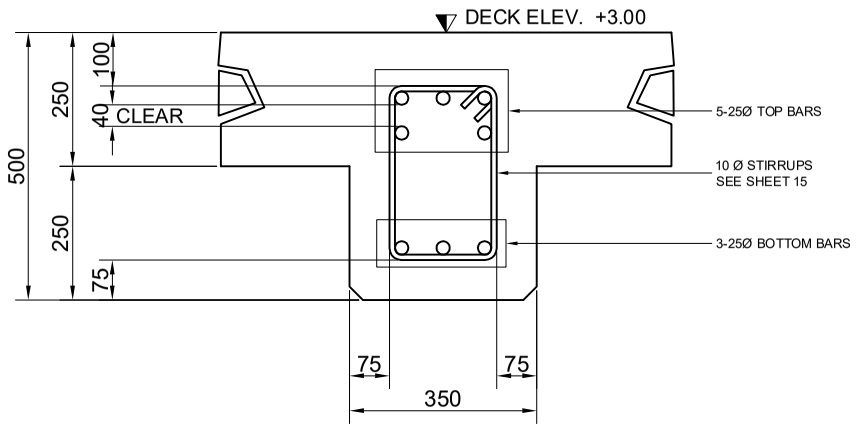
LENGTH OF 0.45X0.45 VERTICAL PILES = EXISTING
LENGTH OF 0.45X0.45 BATTER PILES = 30 LM
LENGTH OF 0.45X0.45 TEST PILES = NONE
TOTAL LENGTH OF 0.45X0.45 VERTICAL & BATTER PILES (4,500PSI) = 40.00 LM

BEARING CAPACITY OF BATTER PILES = 65 TONS
BEARING CAPACITY OF VERTICAL PILES = 53 TONS

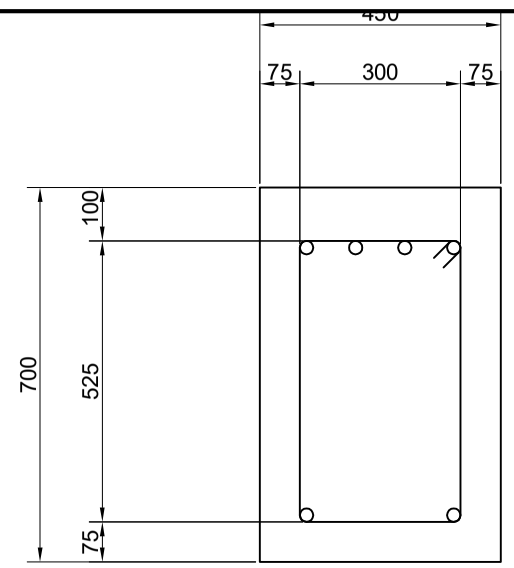
POINT OF FIXITY SHALL NOT BE LESS THAN 3.00 METERS BELOW SEABED.

PILE LENGTH SCHEDULE (IN METERS)

BENT / ROWS	VERTICAL	BATTER	BENT / ROWS	VERTICAL	BATTER
A1		30	B8		
A2			B9		
A3		30	B10		
A4			B11		
A5		30	C1		
A6		30	C2		
A7		30	C3		
A8		30	C4		
A9		30	C5		
A10			C6		
A11		30	C7		
B1			C8		
B2			C9		
B3			C10		
B4			C11		30
B5					
B6			TOTAL LENGTH		270
B7					



TYPICAL SECTION RC BEAM (RB)
SCALE 1:15 METERS



4-25MMø TOP BARS

2-25MMø BOT. BARS

@SUPPORT

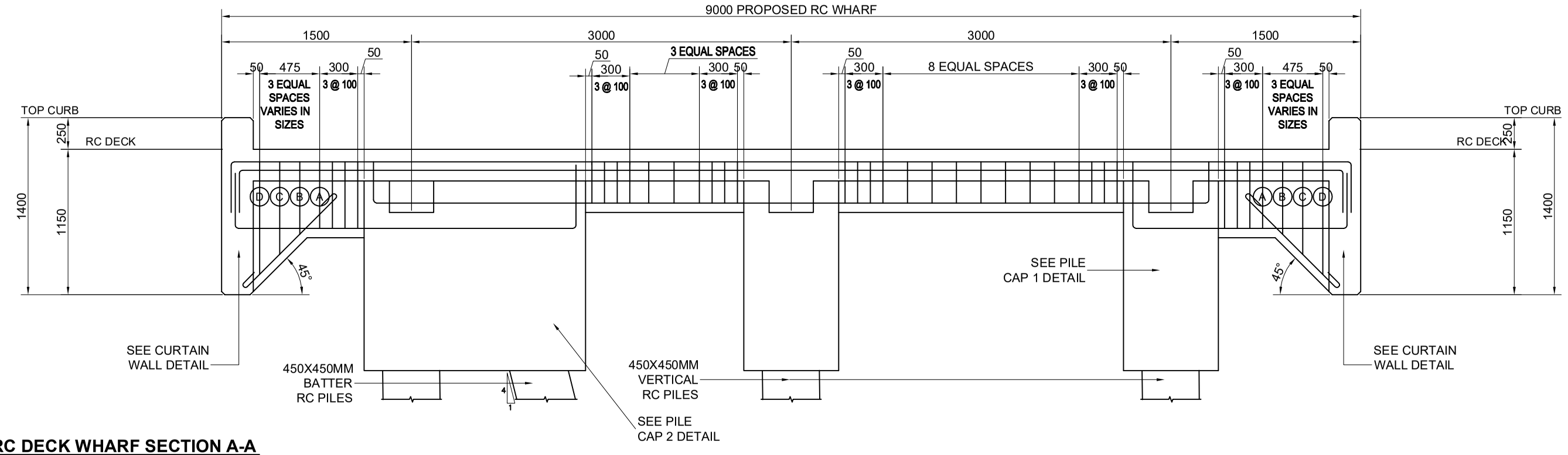
USE 10MMø STIRRUPS. SEE SPACING @ LONG. SECTION BEAM DETAIL

CANTILEVER BEAM (CB) DETAIL
SCALE 1:15 METERS

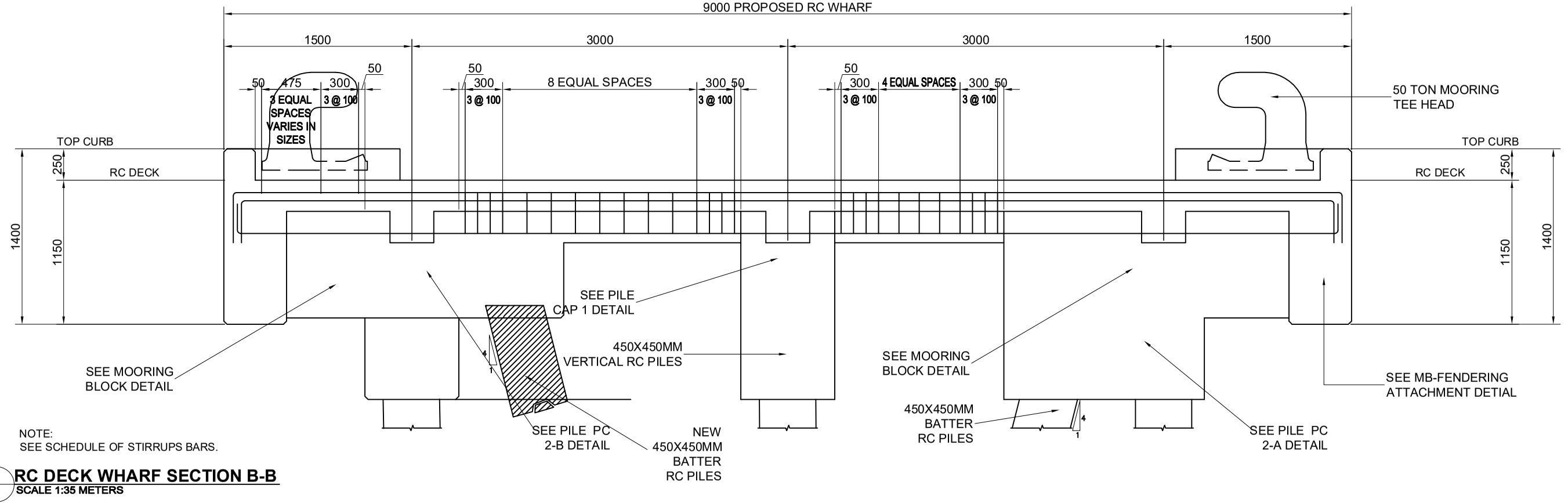
PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: Sept 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR	RODSKIE P. ROGORO ENGINNERING ASSISTANT (JO)	SOLLITO C. ROSALES CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	4 OF 23
LOCATION PALIMBANG, SULTAN KUDARAT					

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RC DECK WHARF SECTION A-A
SCALE 1:35 METERS



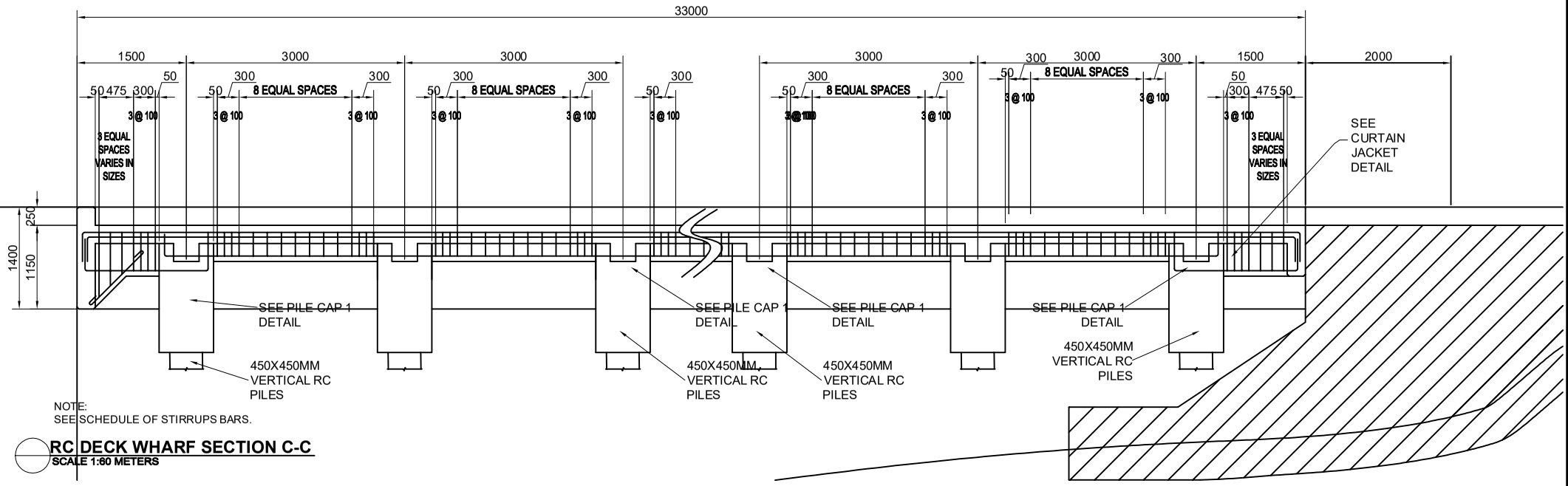
NOTE:
SEE SCHEDULE OF STIRRUPS BARS.

RC DECK WHARF SECTION B-B
SCALE 1:35 METERS

PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 15-Jun-17
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. ROGORO, ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES, CONSTRUCTION FOREMAN	BELTZASAR L. GELLA, ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR., ACTING PORT MANAGER	5 OF 23

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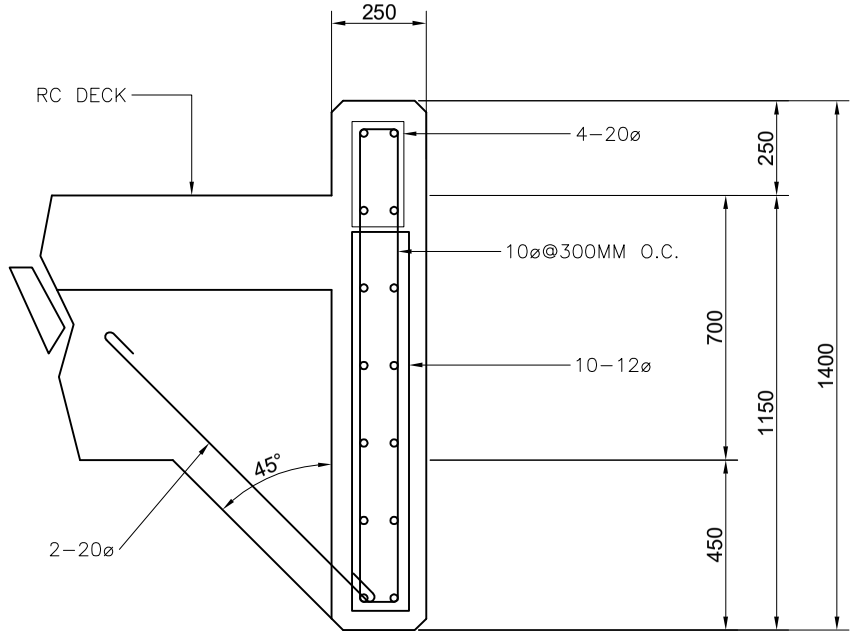


NOTE:
SEE SCHEDULE OF STIRRUPS BARS.

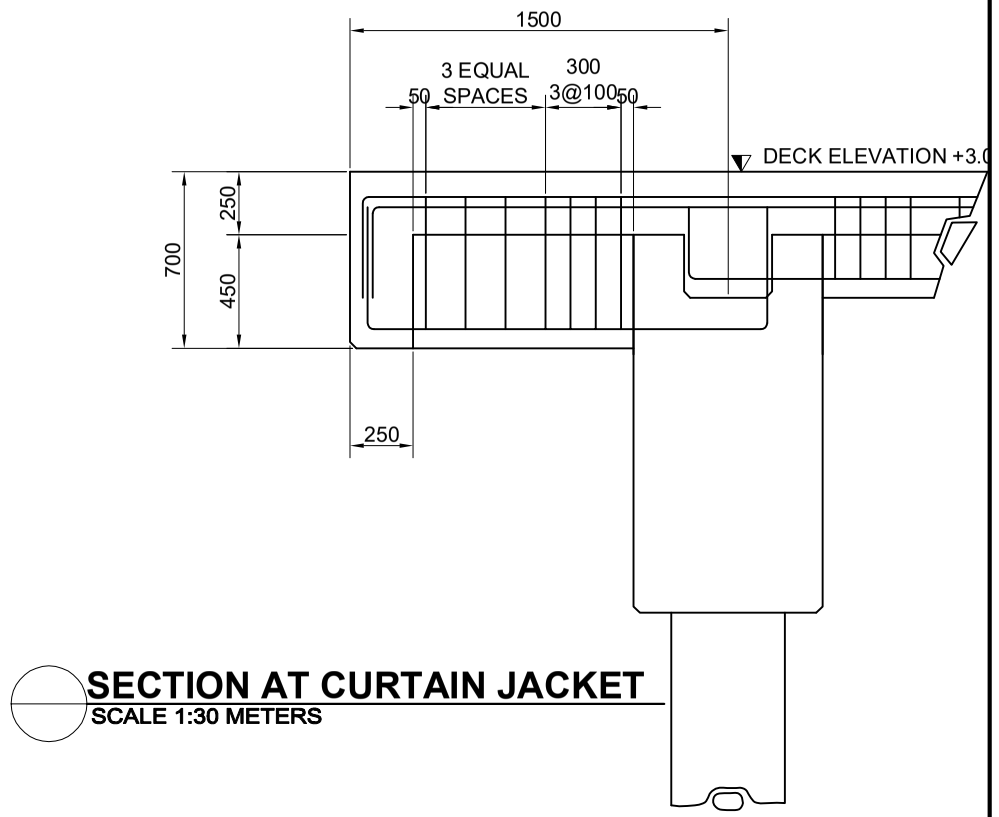
RC DECK WHARF SECTION C-C

SCALE 1:60 METERS

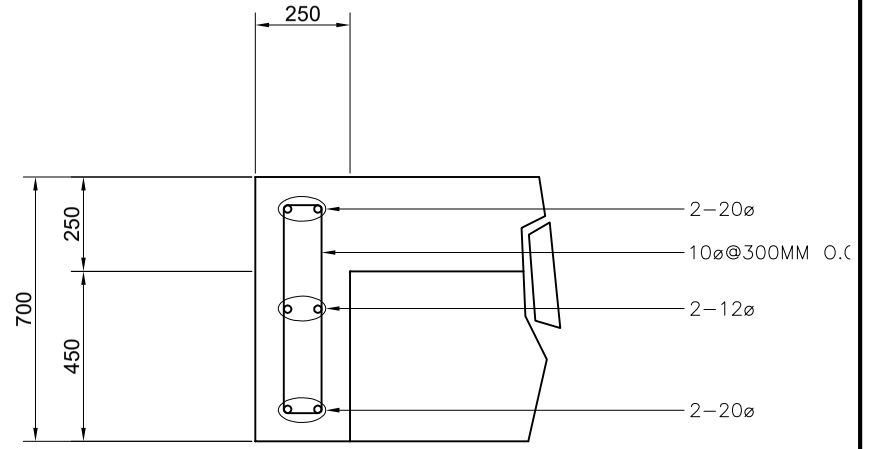
PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE	PROJECT TITLE PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR LOCATION PALIMBANG, SULTAN KUDARAT	DRAWN/CAD BY: RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	REVIEWED BY: SOLLITO C. ROSALES ACTING CONSTRUCTION FOREMAN	RECOMMENDING APPROVAL: BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	APPROVED BY: ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	DATE: 15-Jun-17 6 OF 23



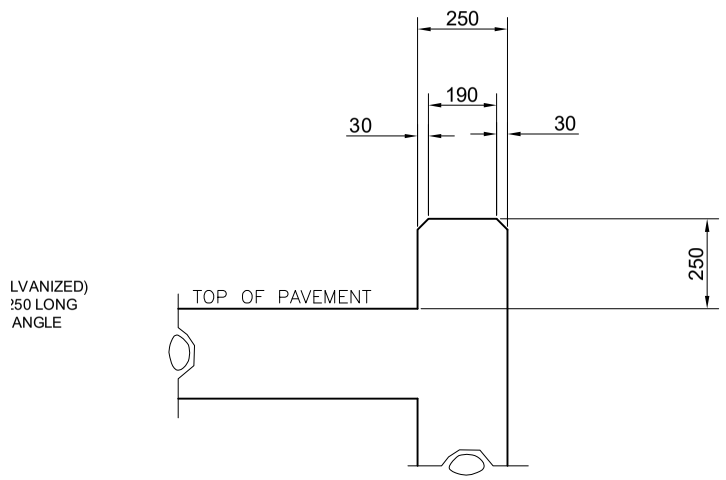
DETAIL OF CURTAIN WALL (CW)
SCALE 1:20 METERS



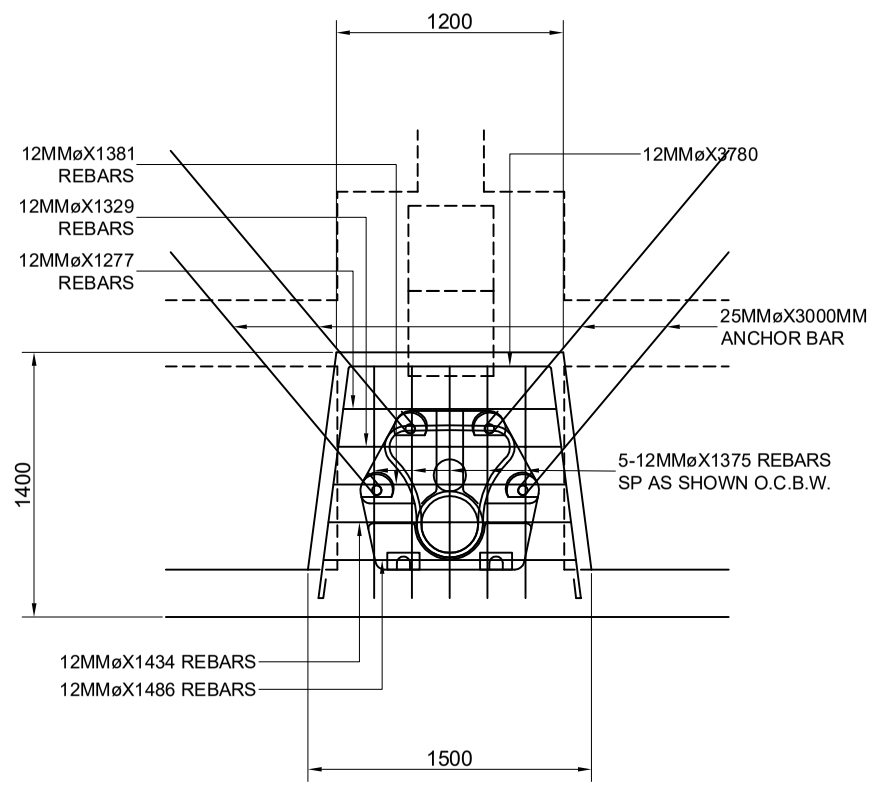
SECTION AT CURTAIN JACKET
SCALE 1:30 METERS



DETAIL OF CURTAIN JACKET (CJ-2)
SCALE 1:20 METERS



CHAMFERING OF CURB
SCALE 1:20 METERS

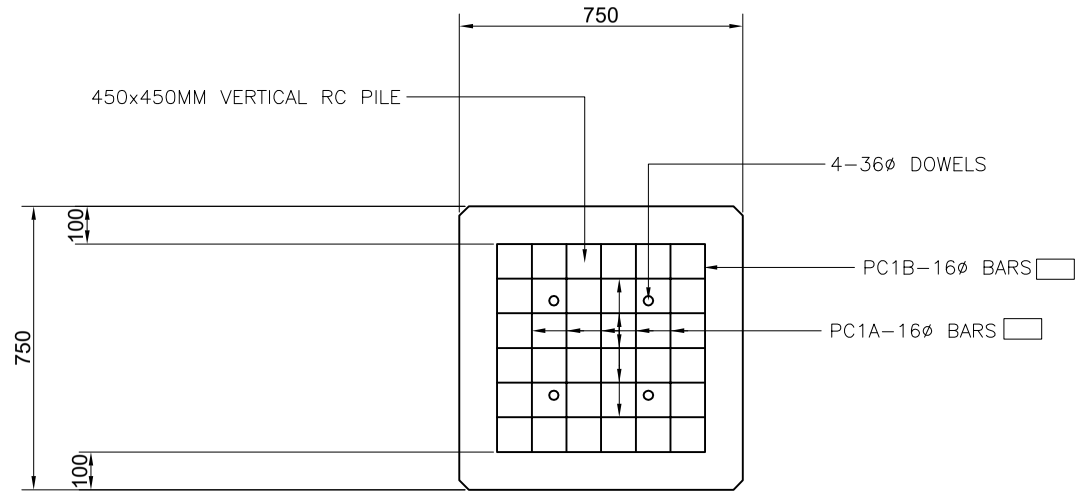


MOORING PAD DET.
SCALE 1:40 METERS

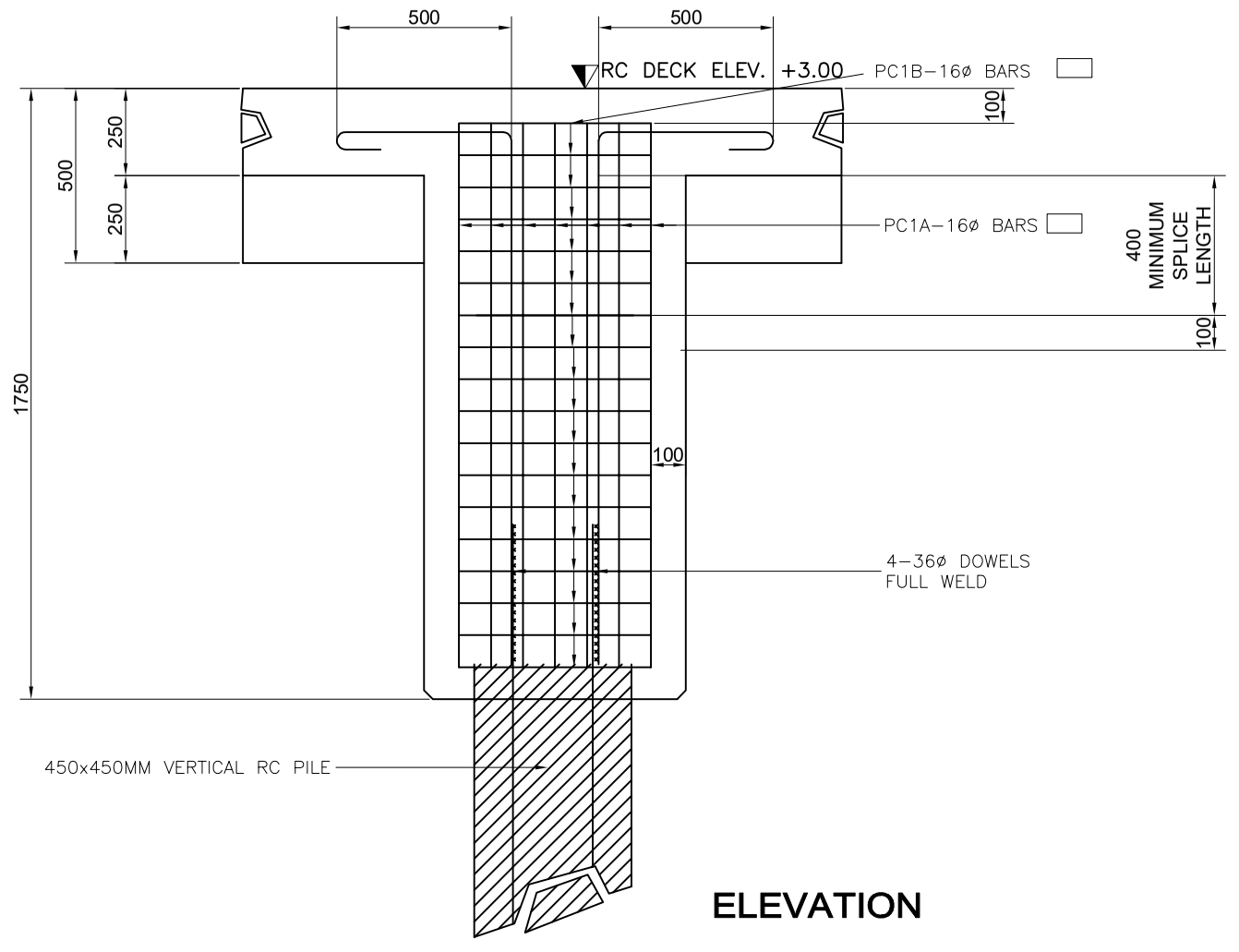
PHILIPPINE PORTS AUTHORITY
PORT MANAGEMENT OFFICE OF COTABATO

PROJECT TITLE	DRAWN/CAD BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	DATE: 10, 2015
PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR					
LOCATION: PALIMBANG, SULTAN KUDARAT	RODSKIE P. RAGORO ENGINEERING ASSISTANT (JO)	SOLLITO C. ROSALES CONSTRUCTION FOREMAN	BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	7 OF 23

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PLAN



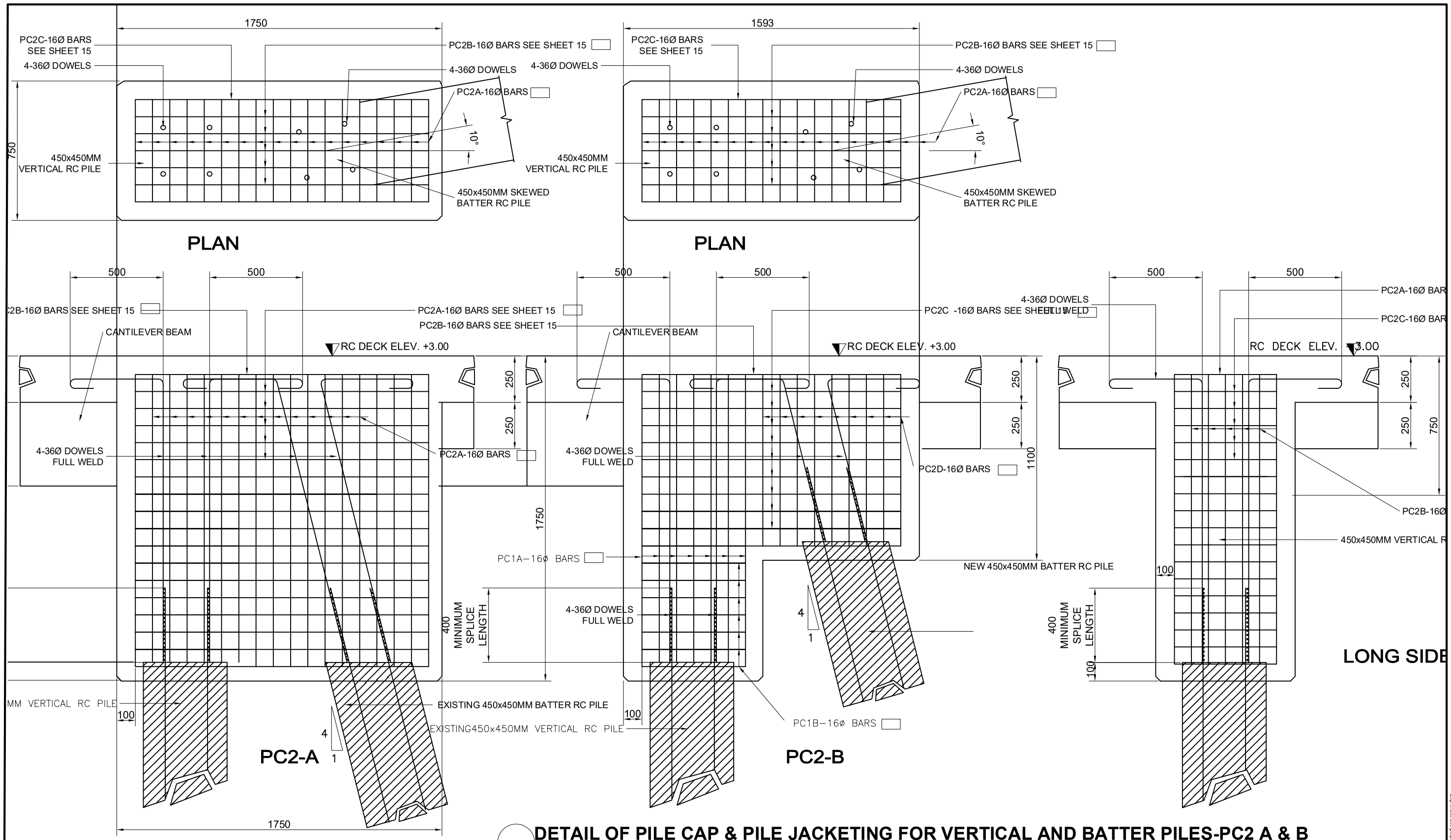
ELEVATION

DETAIL OF PILE CAP FOR VERTICAL PILES-PC1

SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE	PROJECT TITLE PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR LOCATION PALIMBANG, SULTAN KUDARAT	DRAWN/CAD BY: RODSKIE P. ROGORO ENGINEERING ASSITANT (JO)	REVIEWED BY: SOLLITO C. ROSALES CONSTRUCTION FOREMAN	RECOMMENDING APPROVAL: BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	APPROVED BY: ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	DATE: 15-Jun-17 8 OF 23

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DETAIL OF PILE CAP & PILE JACKETING FOR VERTICAL AND BATTER PILES-PC2 A & B

SCALE 1:20 METERS

PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE	PROJECT TITLE PROPOSED 33LM PORT SAN ROQUE (MILBUK) REPAIR LOCATION PALIMBANG, SULTAN KUDARAT	DRAWN/CAD BY: RODSKIE P. ROGORO ENGINEERING ASSISTANT (JO)	REVIEWED BY: SOLLITO C. ROSALES CONSTRUCTION FOREMAN	RECOMMENDING APPROVAL: BELTZASAR L. GELLA ACTING DIVISION MANAGER, ESD	APPROVED BY: ASTERIO C. GALLARDO JR. ACTING PORT MANAGER	DATE: 15-Jun-17 9 OF 23

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