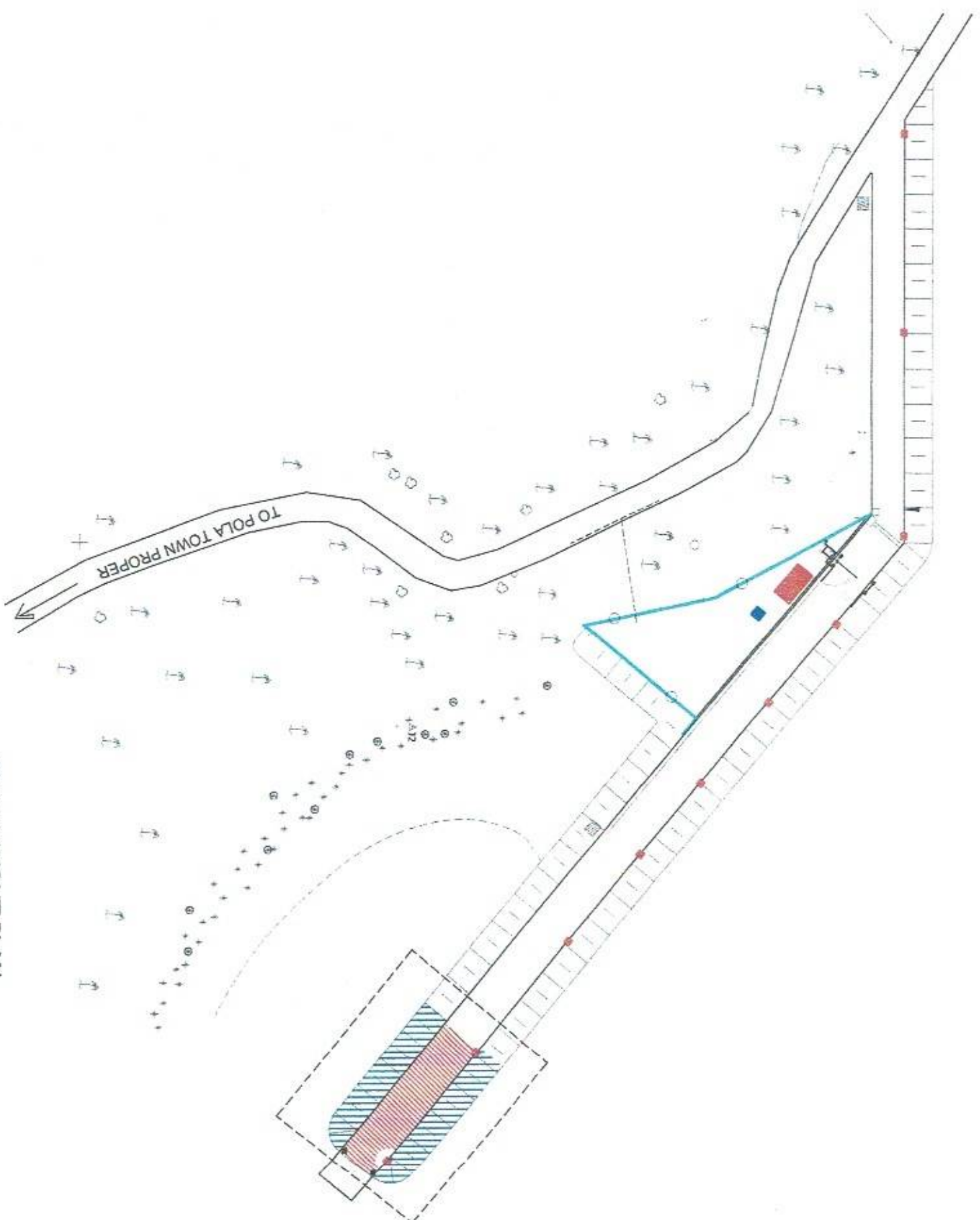




REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT  
DAMAGED BY TYRPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO



PORT LAYOUT PLAN  
PORT OF POLA

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MANTABAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALLIG  
Acting Division Manager A, ESO

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

SCALE:  
AS SHOWN

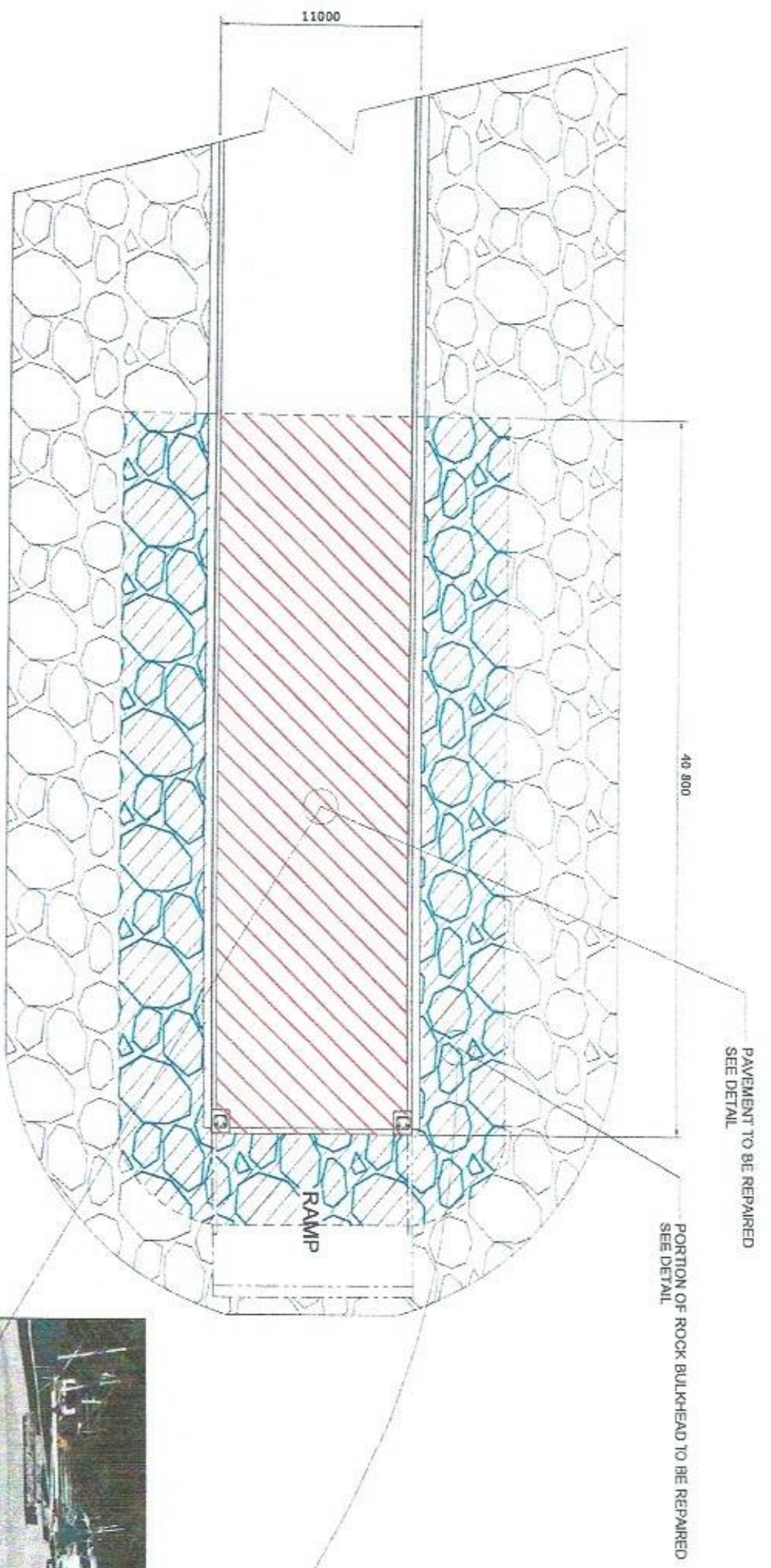
SHEET NO.  
1 of 21

DATE:  
11 NOV 2020

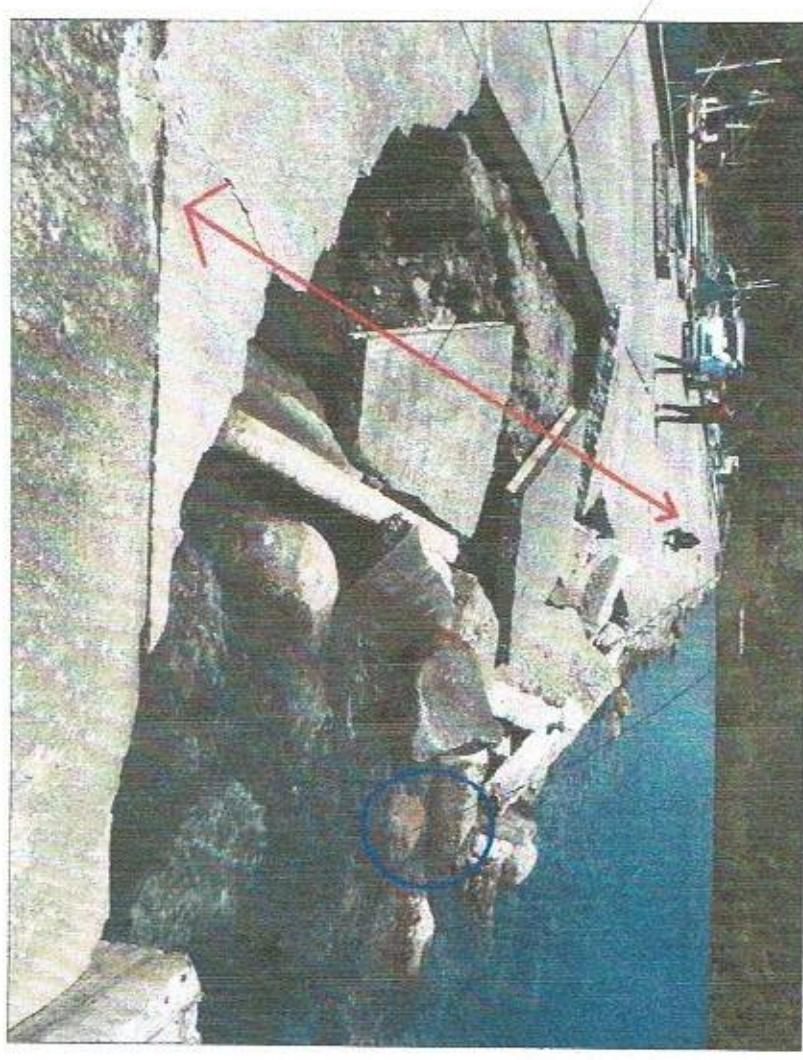


PMO - MINDORO  
ENGINEERING SERVICES DIVISION





GENERAL PLAN OF ROCK  
CAUSEWAY TO BE REPAIRED



PPA - MINDORO  
ENGINEERING SERVICES DIVISION

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:  
FERNANDO GALVEZO  
Engineering Assistant A

SUBMITTED BY:  
EMERSON D. QUIJAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:  
RONALD O. MATTIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:  
MARGARITO P. DIMALIG  
Acting Division Manager A, ESD

APPROVED:  
LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

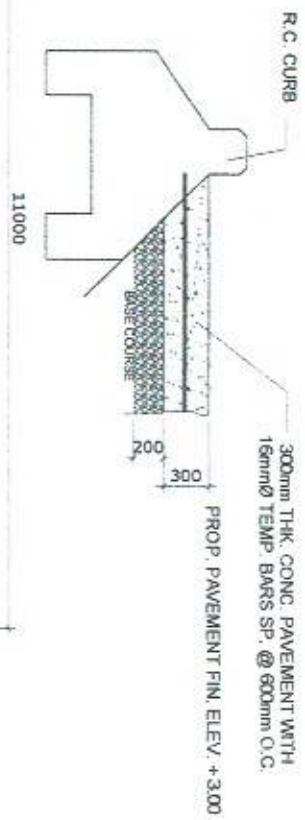
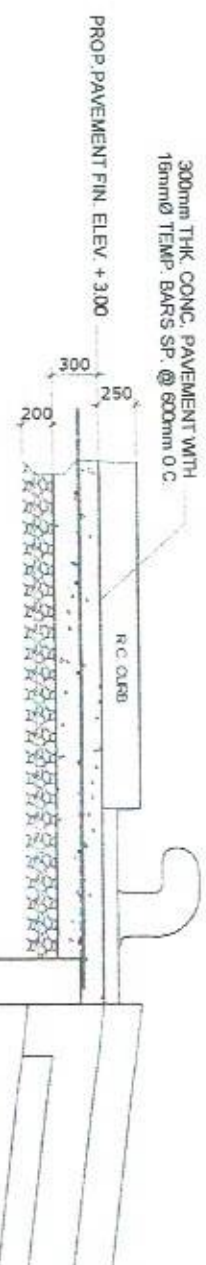
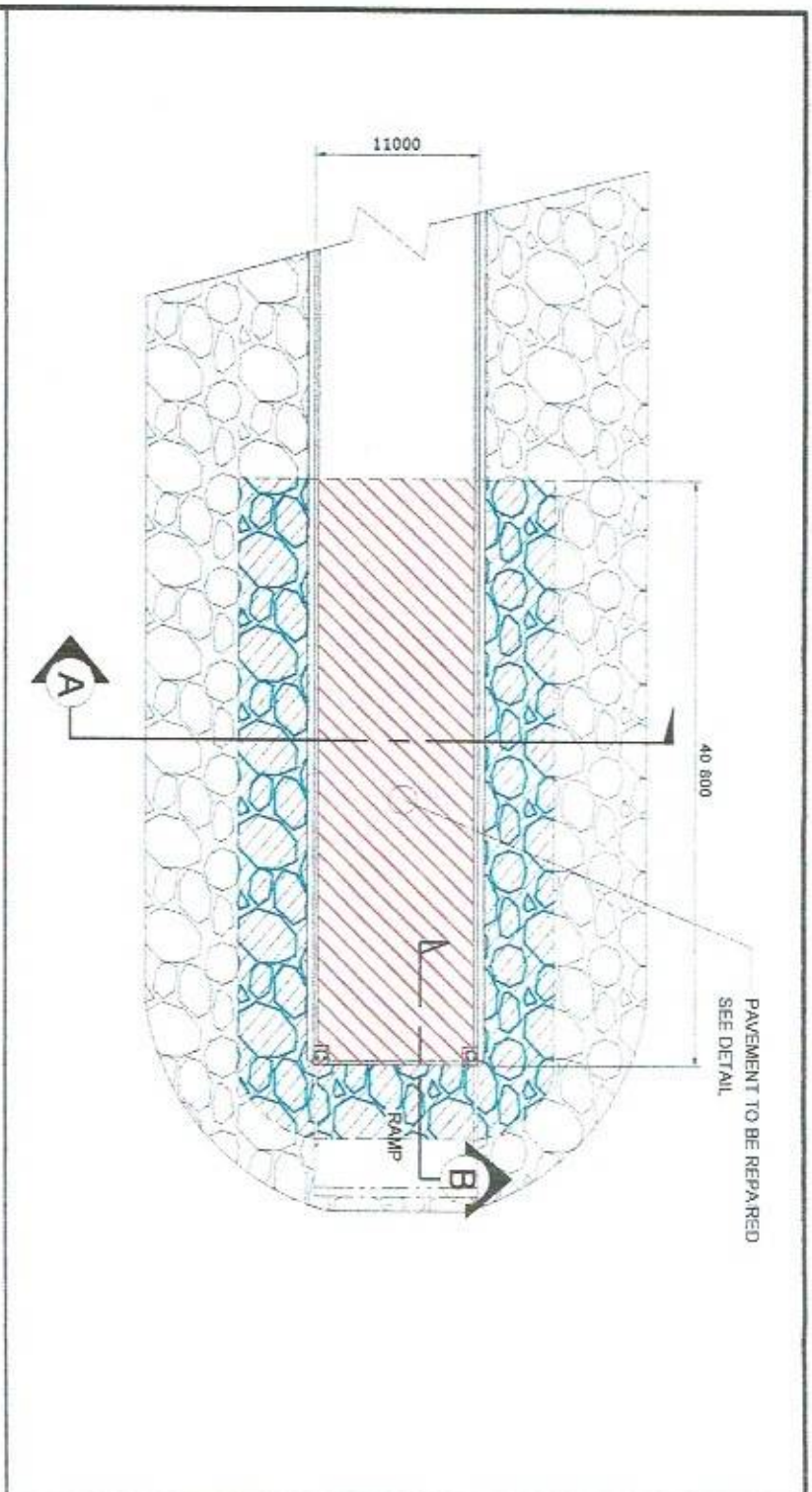
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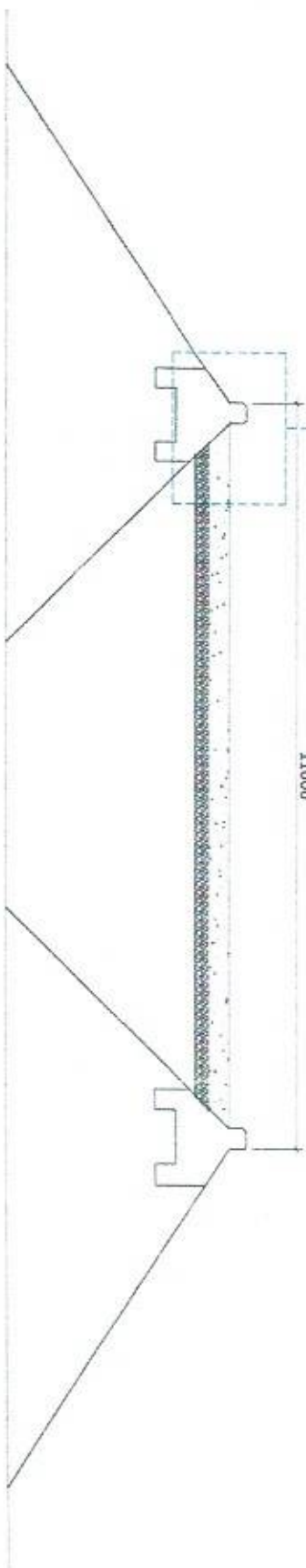
SHEET NO.  
2 of 21

DATE:  
11 NOV 2020





SECTION THRU "B"  
DETAIL OF PAVEMENT  
SCALE 1:100



PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MATIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALLAS  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:





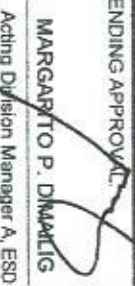
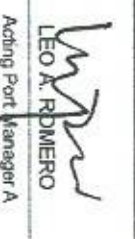
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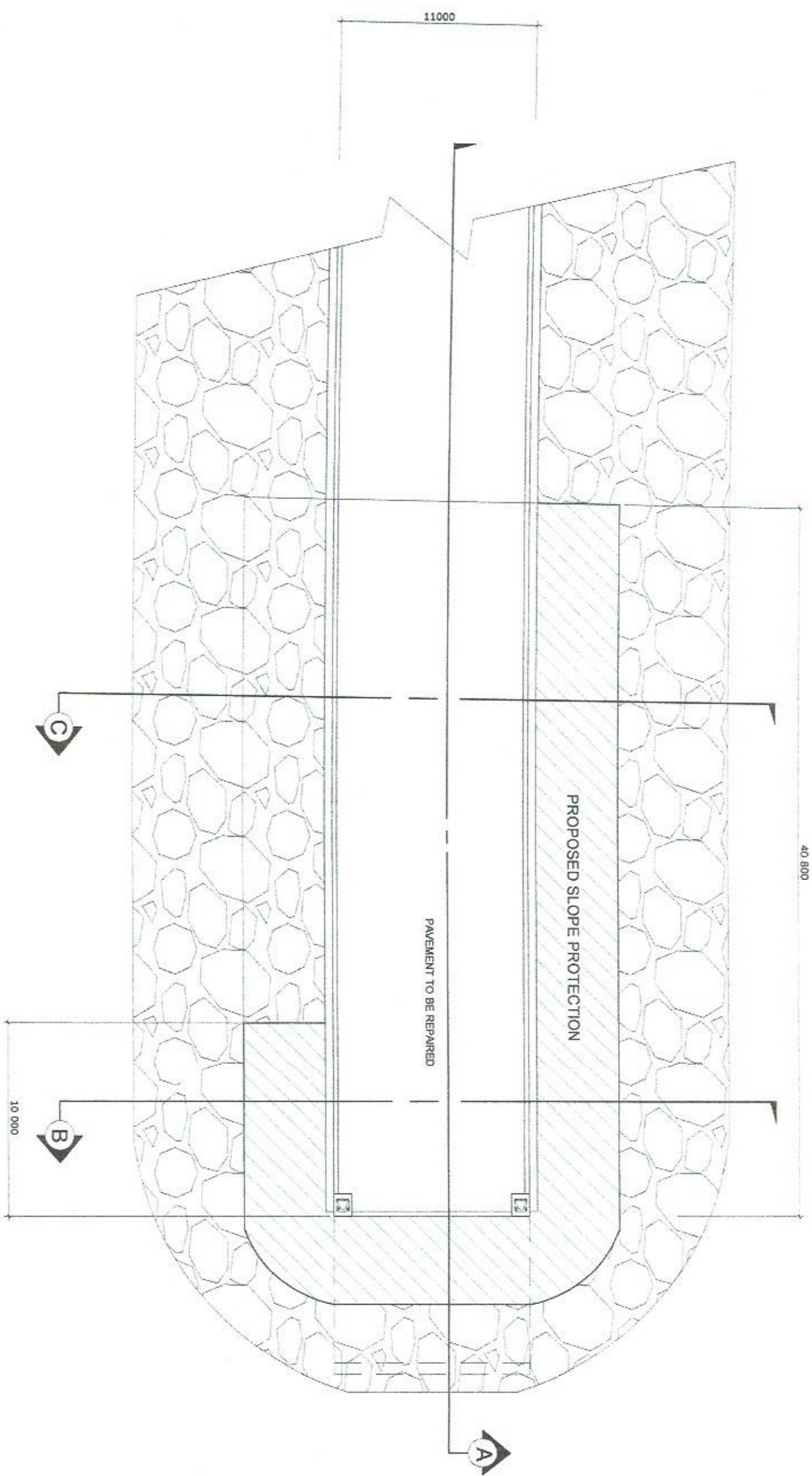
SHEET NO. 3 of 21

DATE: 11 NOV 2020



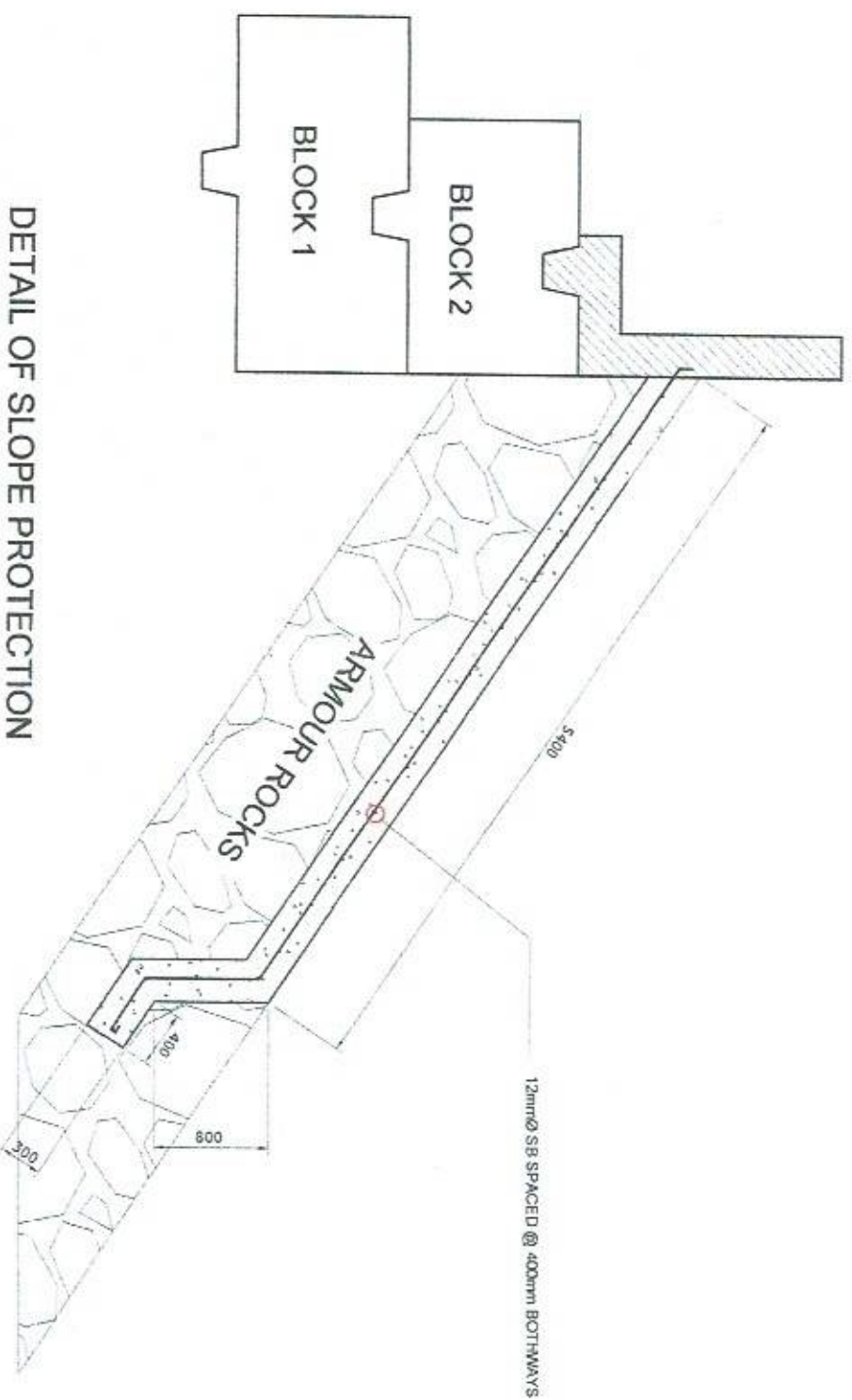
 <p>PHILIPPINE PORTS AUTHORITY PMO-MINDORO ENGINEERING SERVICES DIVISION</p>		<b>PROJECT TITLE:</b> REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA" PORT OF POLA, ORIENTAL MINDORO		<b>SHEET CONTENTS:</b> AS SHOWN	
<b>PREPARED BY:</b>  FERNANDO GALVEZ Engineering Assistant A	<b>SUBMITTED BY:</b>  EMERSON QUIAMBAO Assistant Port Engineer	<b>CHECKED / REVIEWED BY:</b>  RONALD O. MAYBAG Acting Principal Engineer A	<b>RECOMMENDING APPROVAL:</b>  MARGARITO P. DIMATIG Acting Division Manager A, ESD	<b>APPROVED:</b>  LEO A. ROMERO Acting Port Manager A	<b>SCALE:</b> AS SHOWN <b>SHEET NO.</b> 4 of 21 <b>DATE:</b> 11 NOV 2020

PLAN OF ROCK BULKHEAD AND  
SLOPE PROTECTION  
SCALE 1:250 M



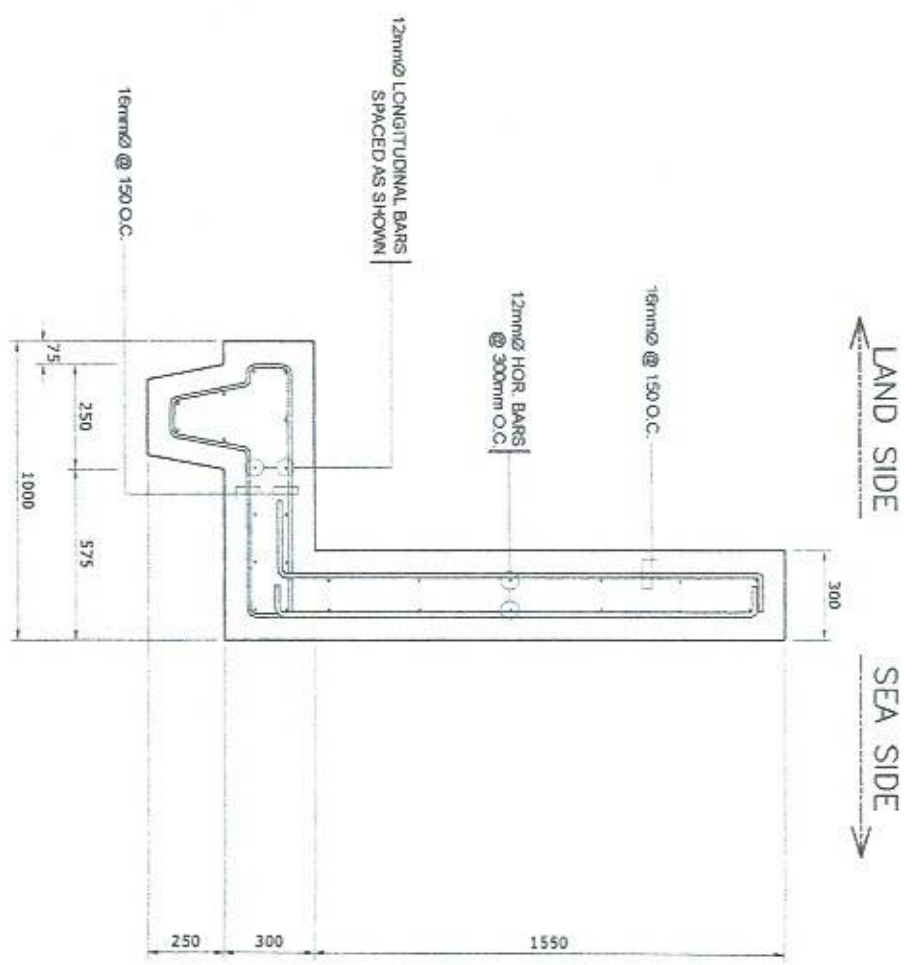






DETAIL OF SLOPE PROTECTION

SCALE 1:50 M



DETAIL OF RETAINING WALL

SCALE 1:25 M



PAO - MINDORO  
ENGINEERING SERVICES DIVISION

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MAYBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALLIG  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

SCALE: AS SHOWN

SHEET NO. 6 of 21

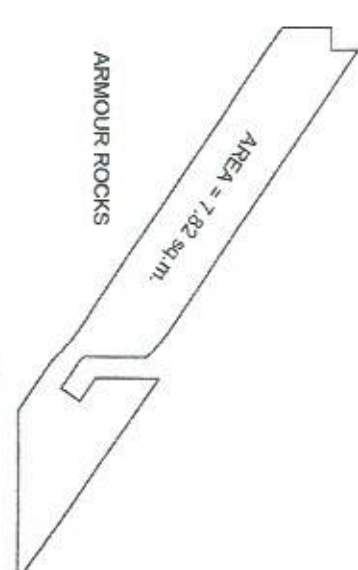
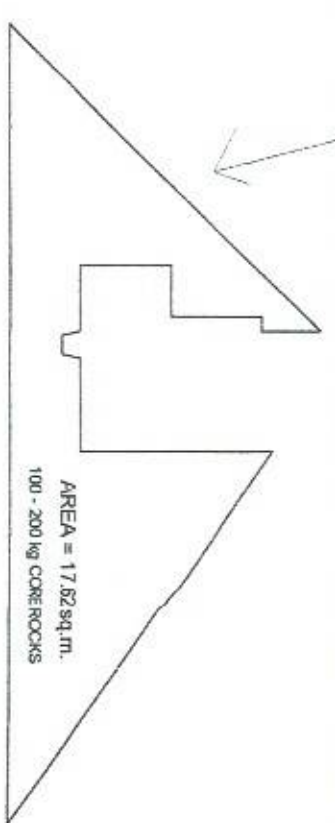
DATE: 11 NOV 2020





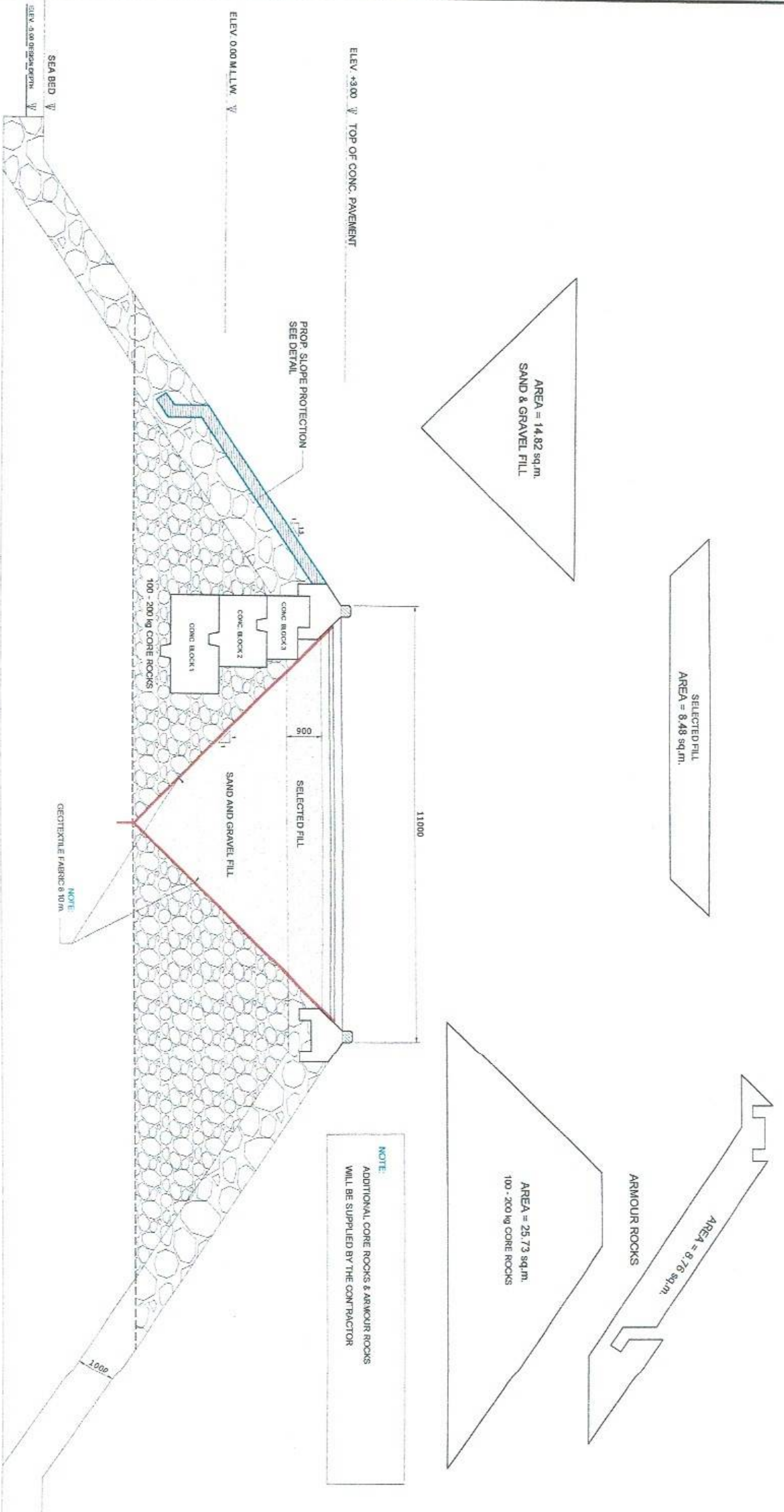
SECTION THRU "B"

SCALE 1:100 M



<p>PHILIPPINE PORTS AUTHORITY ENGINEERING SERVICES DIVISION</p>		<p>PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"</p>		<p>SHEET CONTENTS: AS SHOWN</p>		<p>SCALE: AS SHOWN</p>	
<p>PREPARED BY: FERNANDO J. GALVEZO Engineering Assistant A</p>		<p>SUBMITTED BY: EMERSON D. QUIAMBIAO Assistant Port Engineer</p>		<p>CHECKED / REVIEWED BY: RONALD O. MATIBAG Acting Principal Engineer A</p>		<p>RECOMMENDING APPROVAL: MARGARITO P. DIMAILIG Acting Division Manager A, ESD</p>	
<p>APPROVED: LEO A. ROMERO Acting Port Manager A</p>		<p>DATE: 11 NOV 2020</p>		<p>SHEET NO. 7 of 21</p>		<p>DATE: 11 NOV 2020</p>	





# SECTION THRU "C"

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MATIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALIG  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

SCALE: AS SHOWN

SHEET NO. 8 of 21

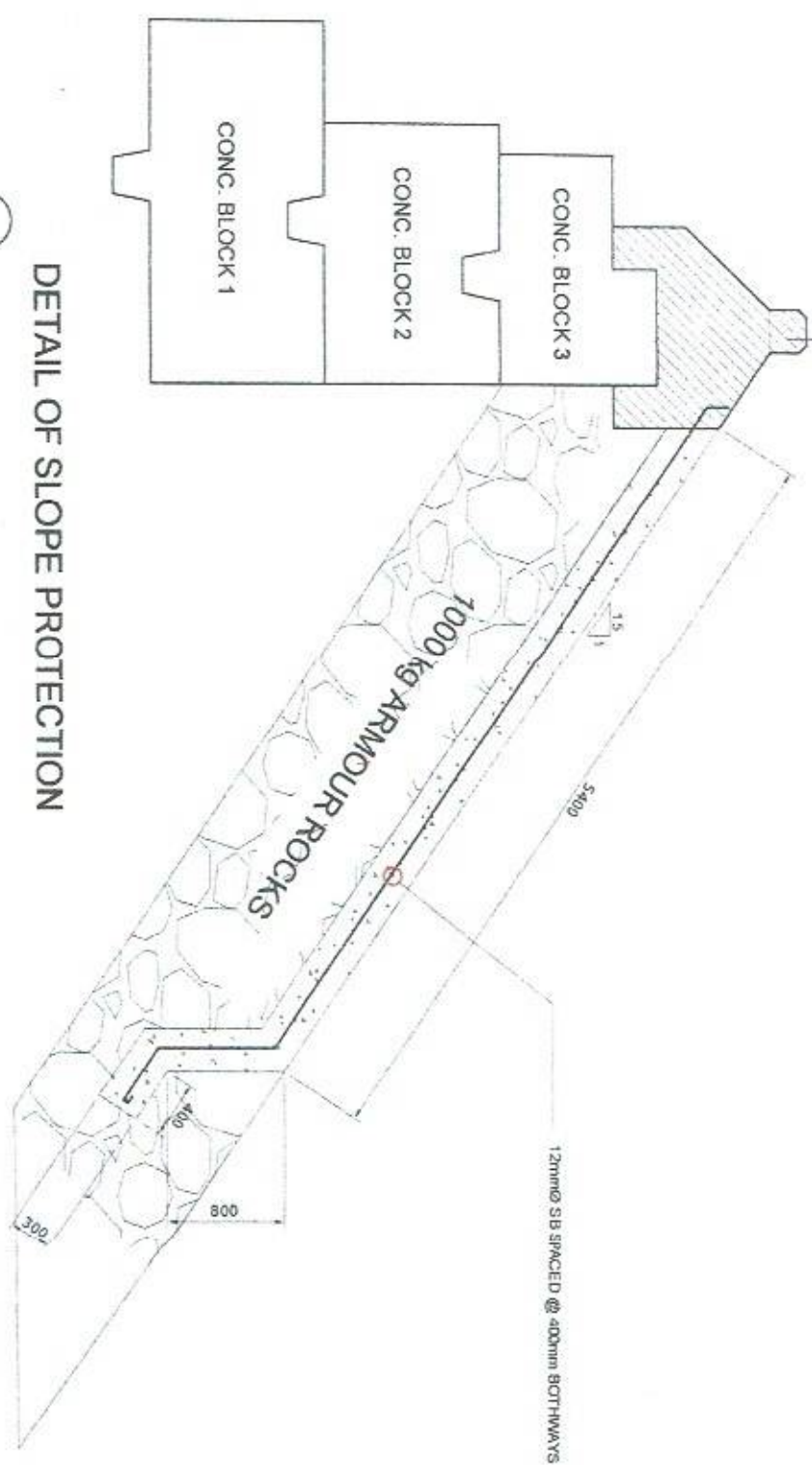
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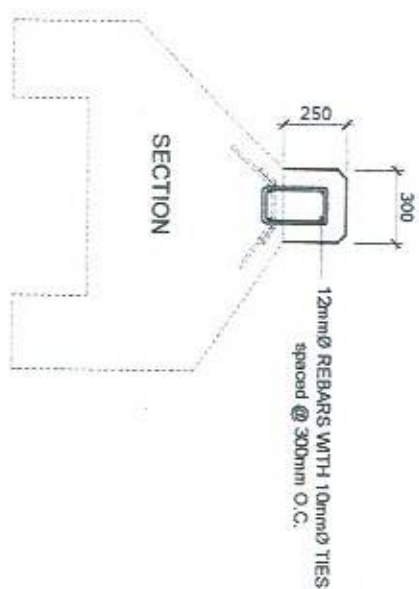
PMO, MINDORO  
ENGINEERING SERVICES DIVISION



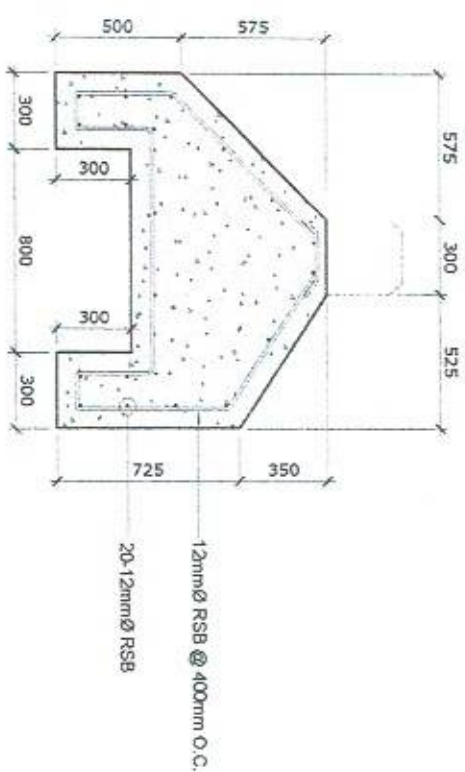
SEE DETAIL OF R.C. CURB



DETAIL OF SLOPE PROTECTION



DETAIL OF R.C. CURB



DETAIL OF R.C. SEAT

PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

SHEET CONTENTS:

AS SHOWN

SCALE:

AS SHOWN

SHEET NO.

9 of 21

DATE:

11 NOV 2020

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. JAMBABO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MANTIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALUG  
Acting Division Manager A, ESD

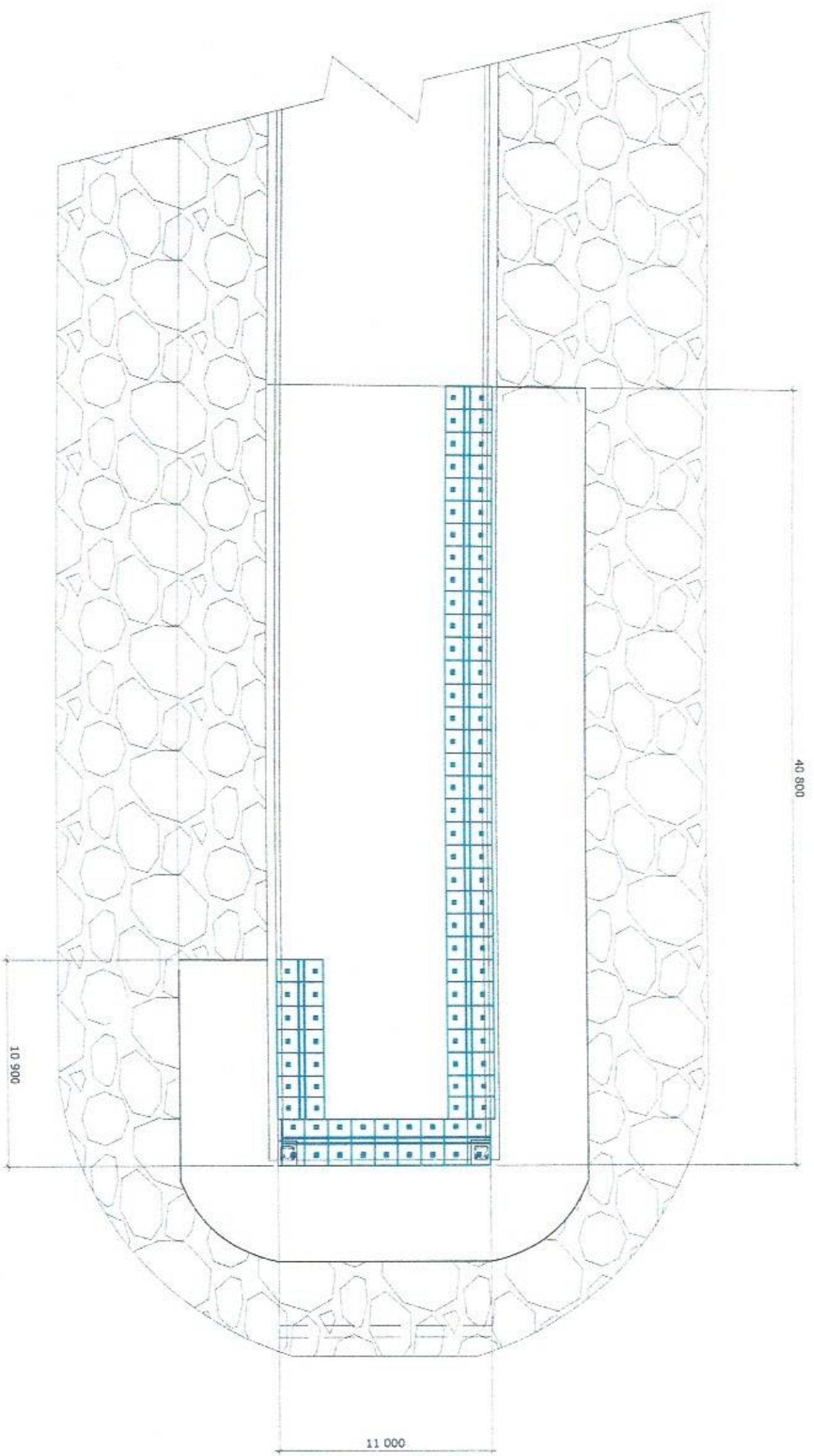
APPROVED:

LEO A. ROMERO  
Acting Port Manager A



PHILIPPINE PORTS AUTHORITY  
PMAO - MINDORO  
ENGINEERING SERVICES DIVISION

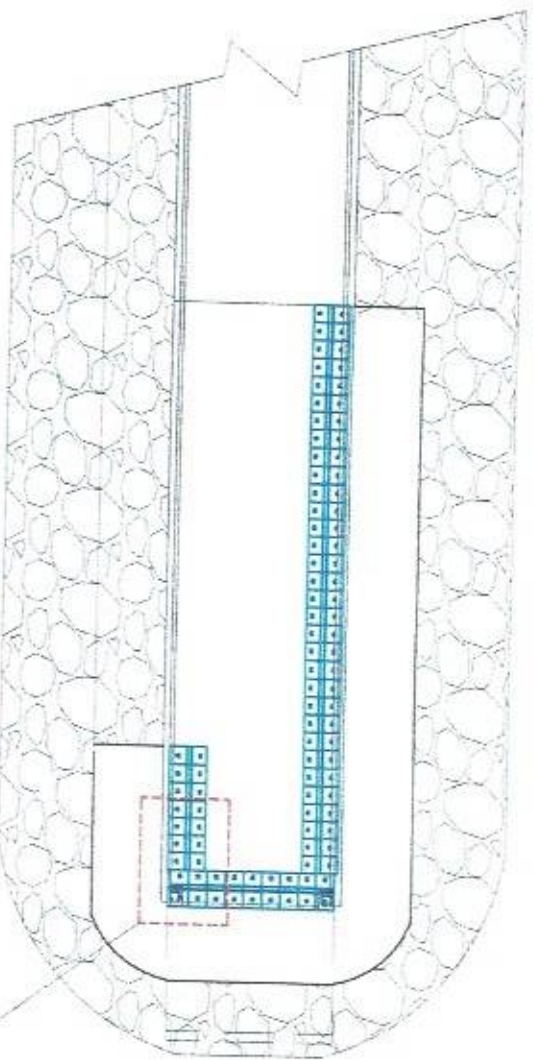




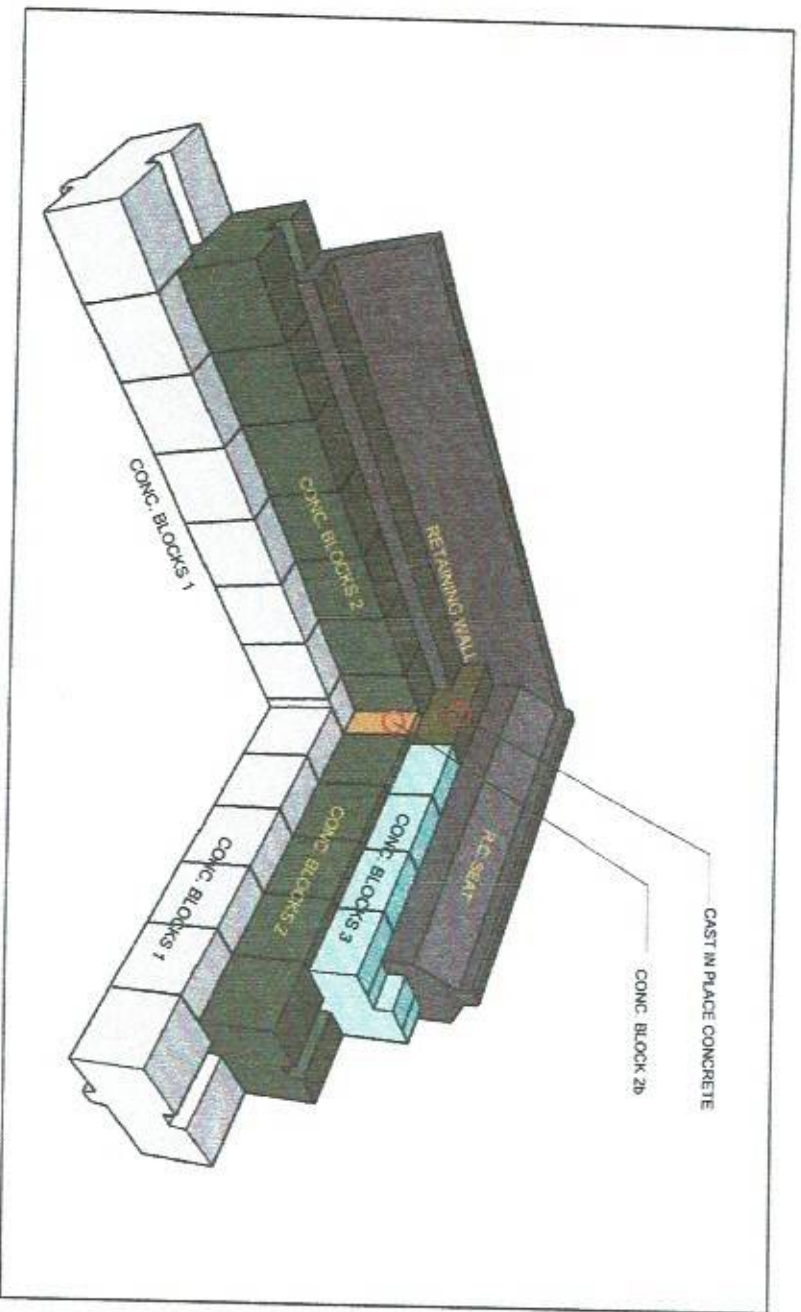
LAYOUT PLAN OF CONC. BLOCKS  
SCALE 1:250 M

		<b>PROJECT TITLE:</b> REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA" PORT OF POLA, ORIENTAL MINDORO		<b>SHEET CONTENTS:</b> AS SHOWN	
<b>PREPARED BY:</b>  FERNANDO J. GALVEZ Engineering Assistant A	<b>SUBMITTED BY:</b>  EMERSON D. QUIAMBAO Assistant Port Engineer	<b>CHECKED / REVIEWED BY:</b>  RONALD O. MANIBAG Acting Principal Engineer A	<b>RECOMMENDING APPROVAL:</b>  MARGARITO P. DIMALLIG Acting Division Manager A, ESD	<b>APPROVED:</b>  LEO A. ROMERO Acting Port Manager A	<b>SCALE:</b> AS SHOWN <b>SHEET NO.</b> 10 of 21 <b>DATE:</b> 11 NOV 2020

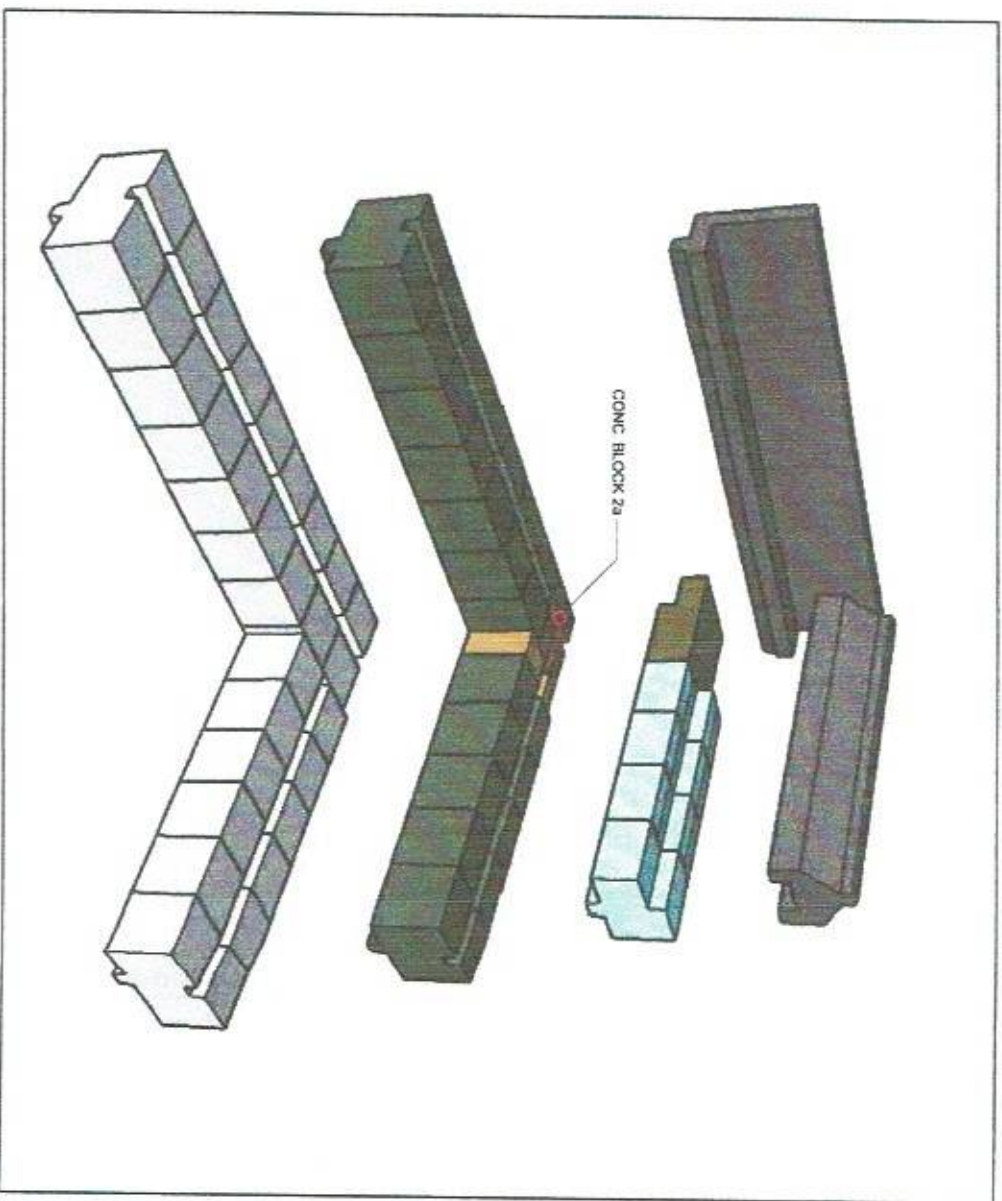




SEE CONNECTION DETAIL OF CONC. BLOCKS, RETAINING WALL & R.C. SEAT  
**KEY PLAN**



**ISOMETRIC DETAIL**



**CONNECTION DETAIL**



PPA - MINDORO  
ENGINEERING SERVICES DIVISION

**PROJECT TITLE:** REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

**PREPARED BY:**  
FERNANDO GALVEZO  
Engineering Assistant A

**SUBMITTED BY:**  
EMERSON D. CULIAMBAG  
Assistant Port Engineer

**CHECKED / REVIEWED BY:**  
RONALD O. MATIBAG  
Acting Principal Engineer A

**RECOMMENDING APPROVAL:**  
MARGARITO B. DIMALIG  
Acting Division Manager A, ESD

**APPROVED:**  
LEO A. ROMERO  
Acting Port Manager A

**SHEET CONTENTS:** AS SHOWN

**SCALE:** AS SHOWN

AS SHOWN

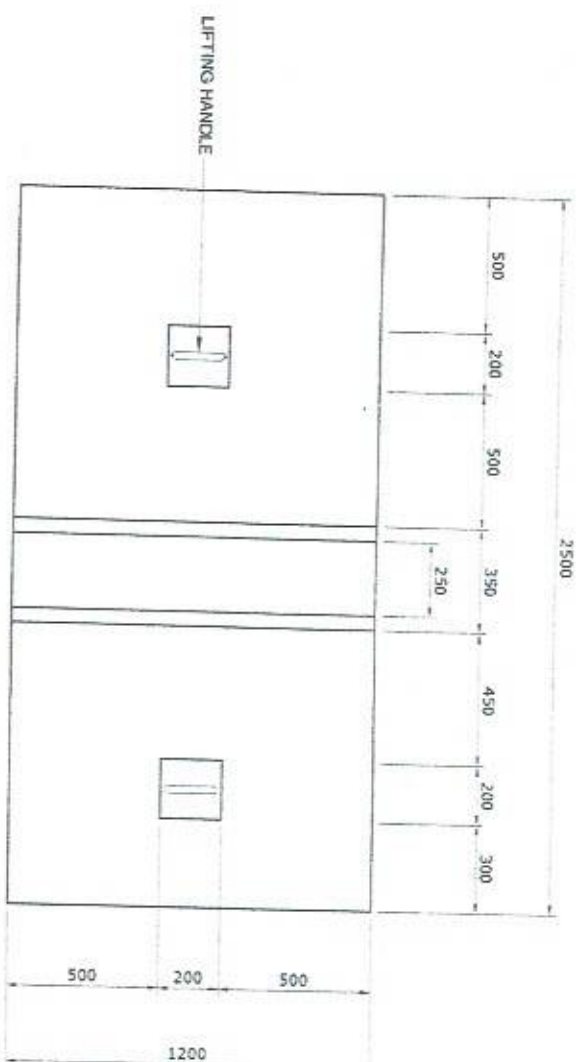
**SHEET NO.**  
11 of 21

**DATE:**  
11 NOV 2020

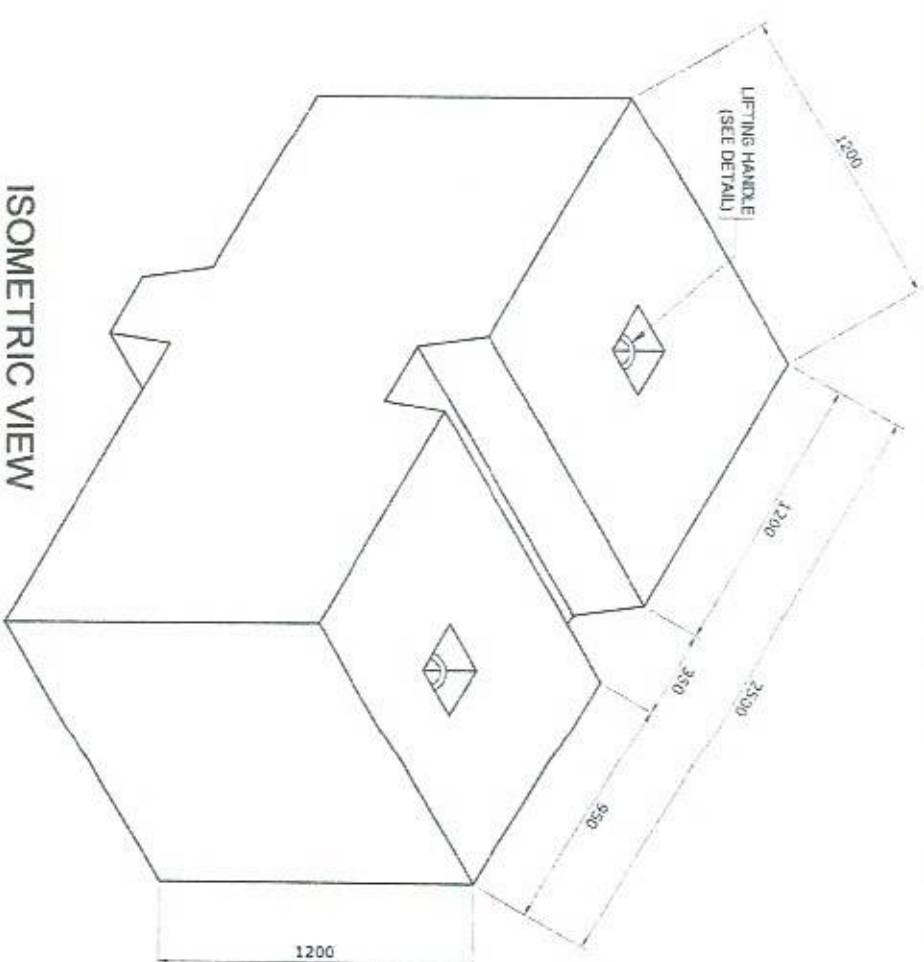




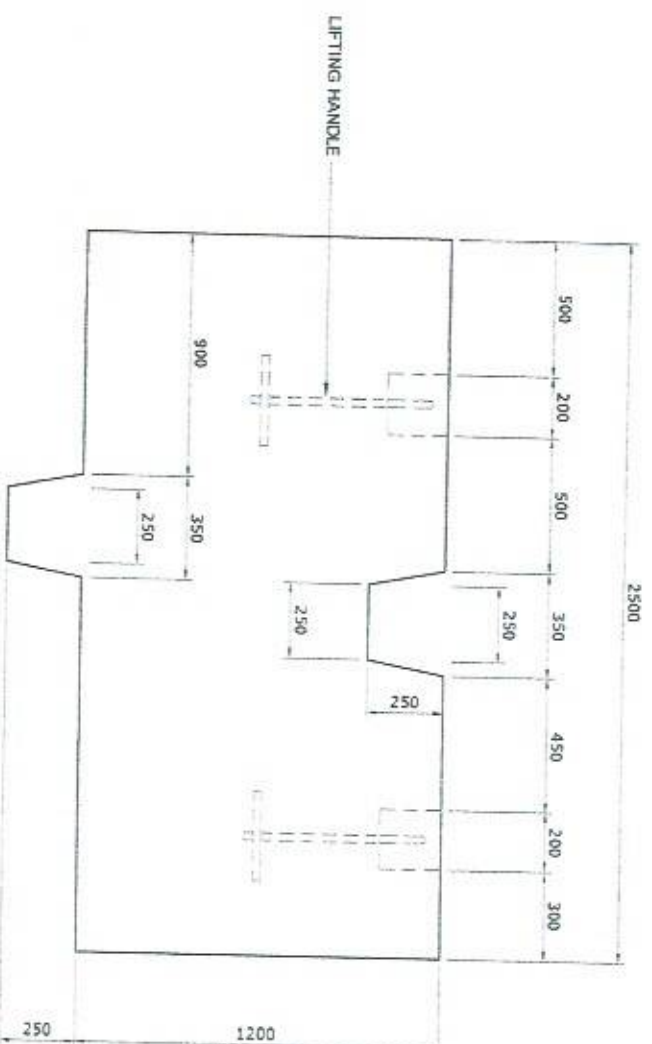




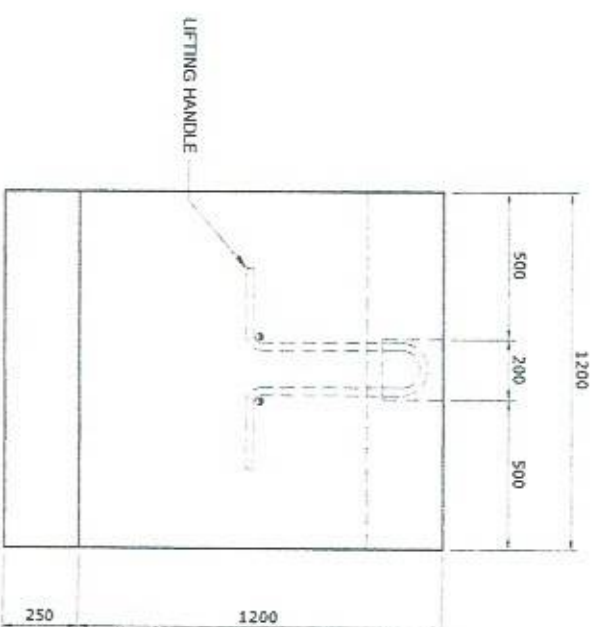
TOP VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

CONC. BLOCK - 1 (CB-1)

SCALE 1:25M

PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. SALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MAYIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMAUG  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

SCALE:

AS SHOWN

SHEET NO.

13 of 21

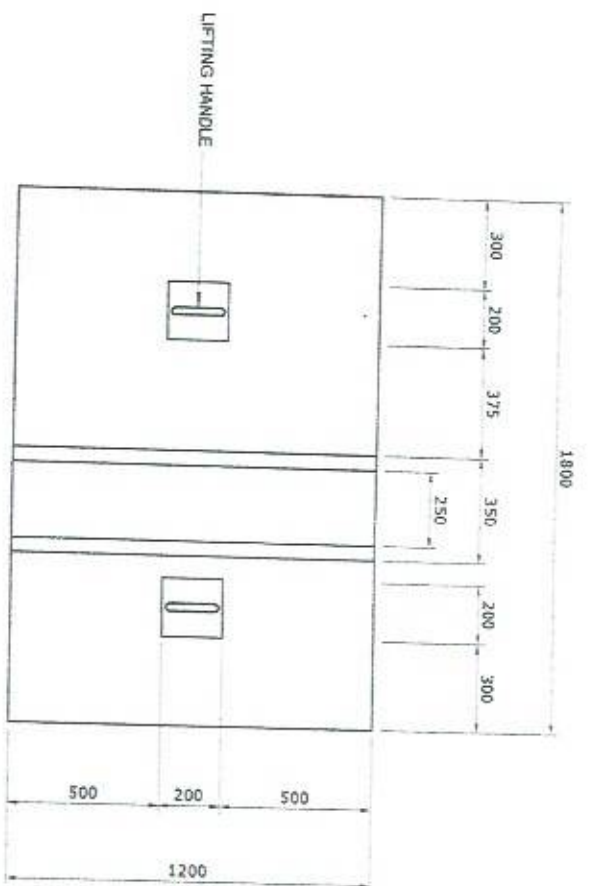
DATE:

11 NOV 2020

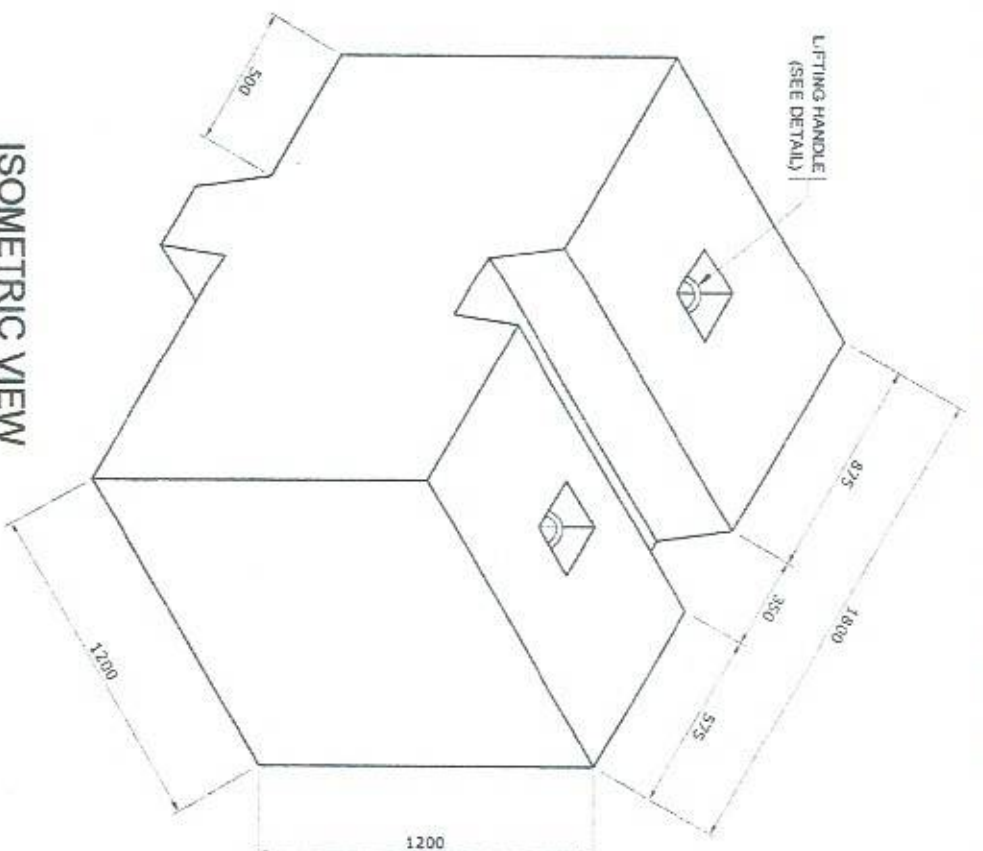


PNO - MINDORO  
ENGINEERING SERVICES DIVISION

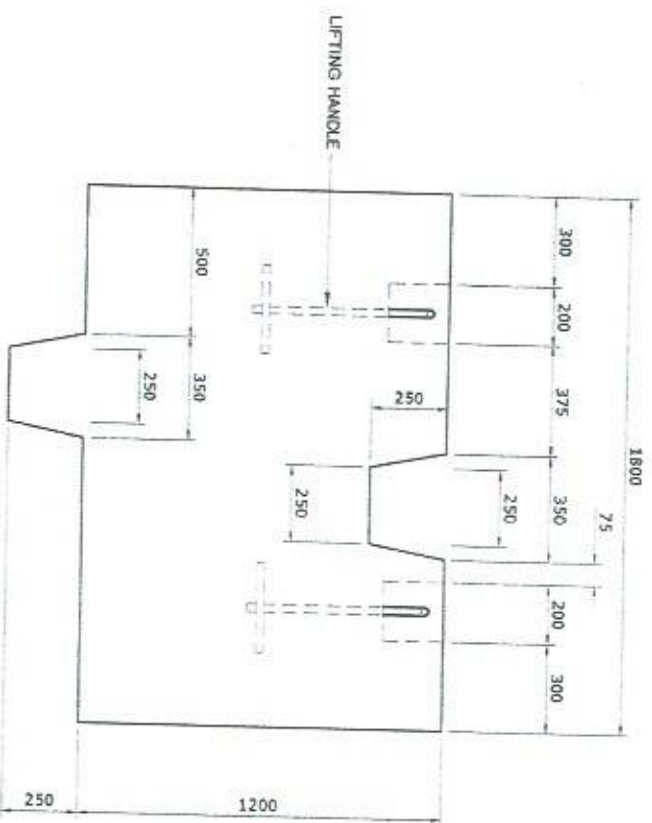




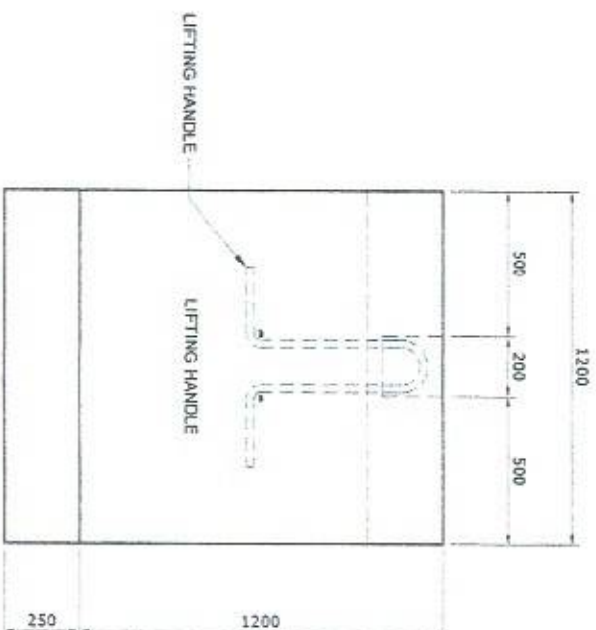
TOP VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

CONC. BLOCK - 2 (CB-2)

SCALE 1:25 M



PHILIPPINE PORTS AUTHORITY  
PMAO - MINDORO  
ENGINEERING SERVICES DIVISION

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:  
FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:  
EMERSON B. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:  
ROMAN O. MONTAÑA  
Acting Principal Engineer A

RECOMMENDING APPROVAL:  
MARGARITO P. DIMALIG  
Acting Division Manager A, ESD

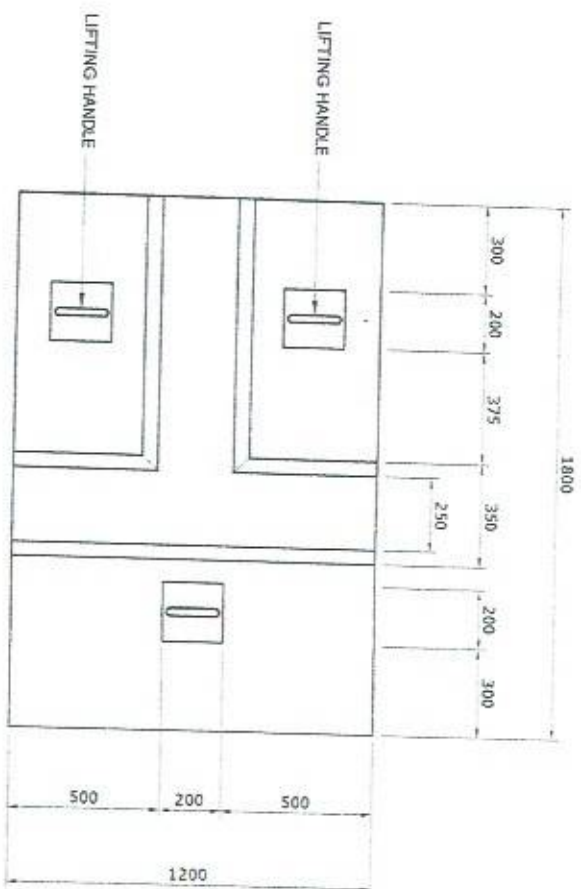
APPROVED:  
LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:  
AS SHOWN

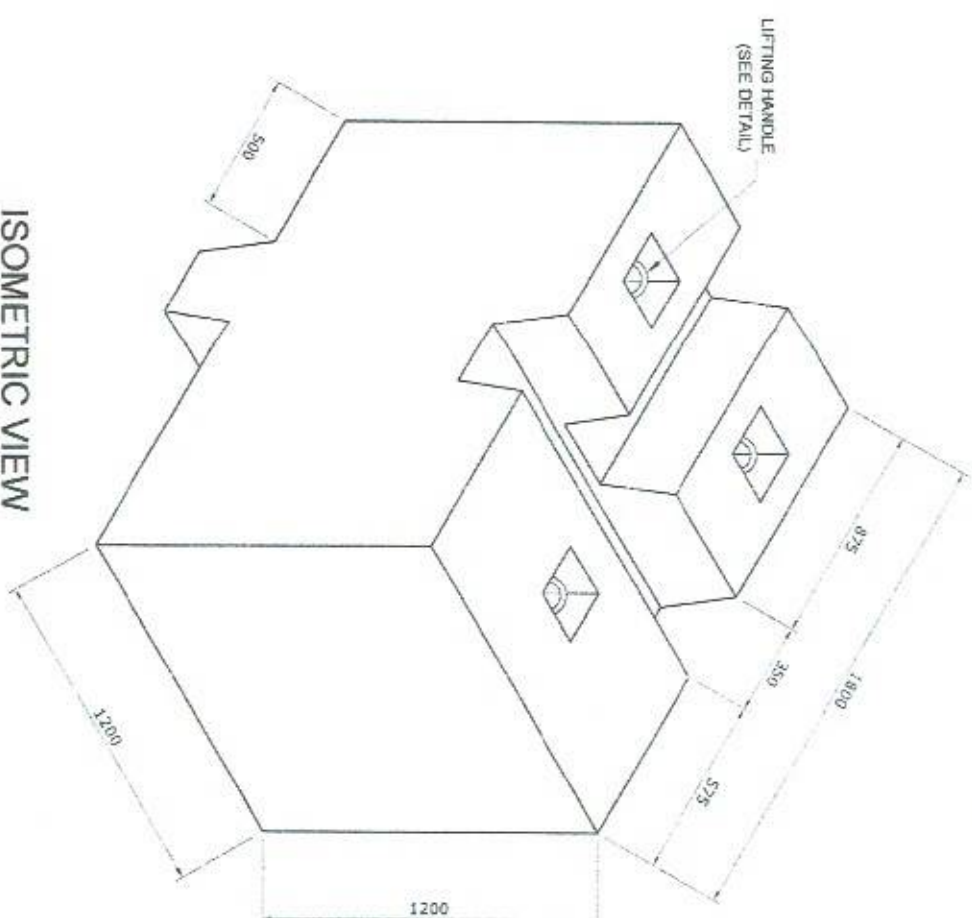
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SHEET NO.  
14 of 21  
DATE:  
11 NOV 2020

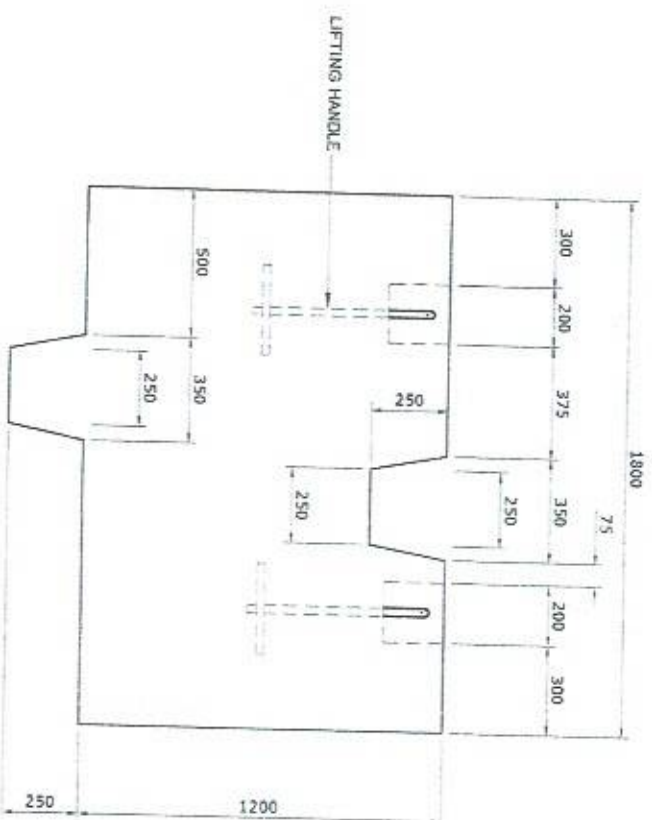




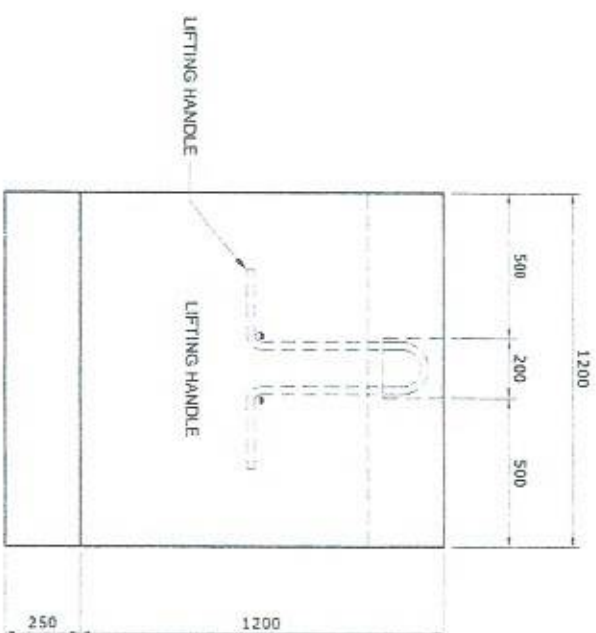
TOP VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

CONC. BLOCK - 2a (CB-2a)

SCALE 1:25 M

PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

ENRIQUESON B. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALDO O. MATIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMANG  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

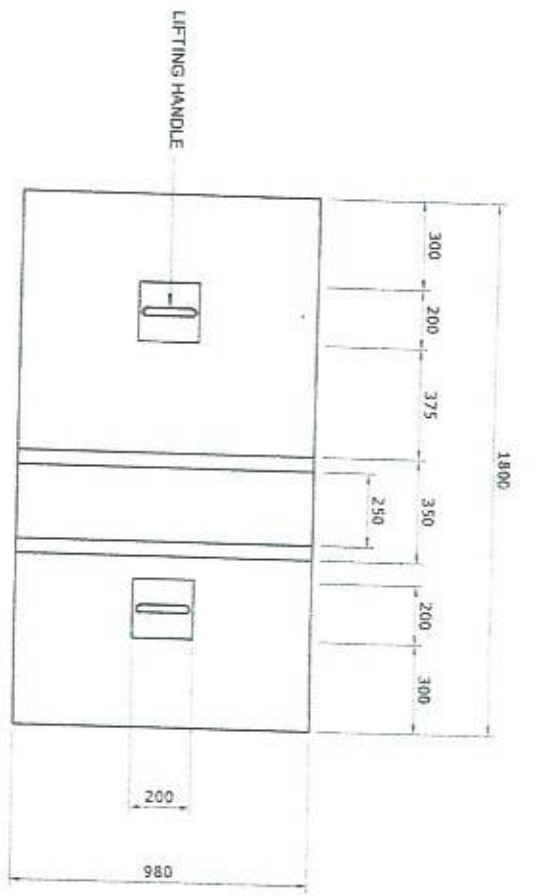
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SHEET NO.  
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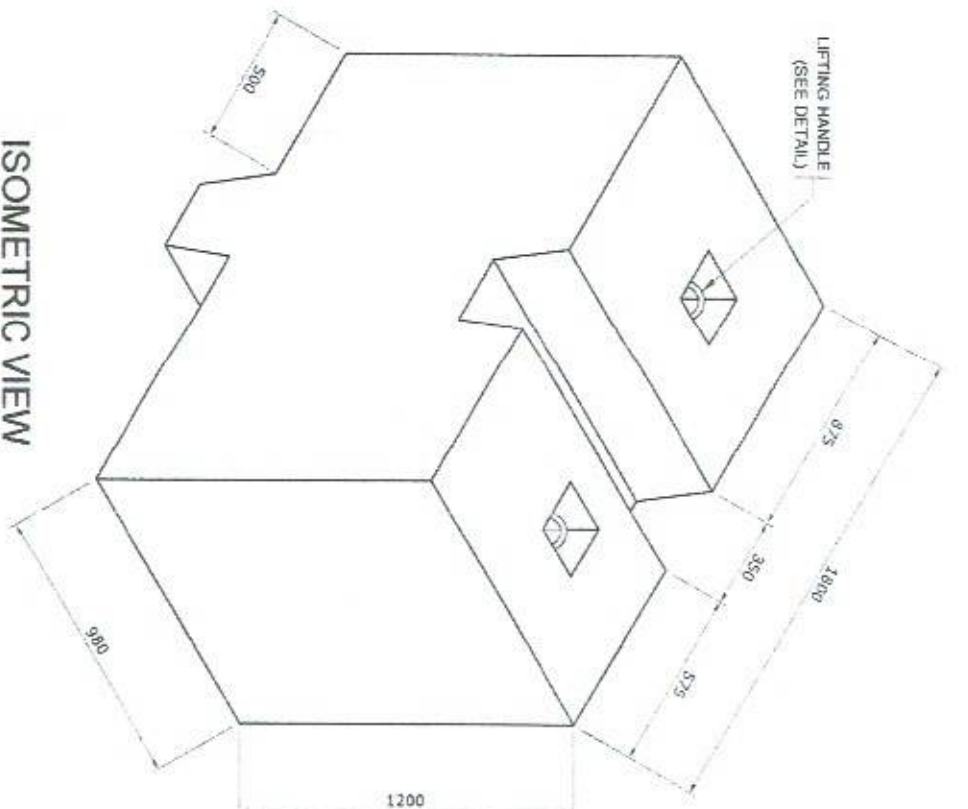
PHILIPPINE  
PORTS  
AUTHORITY  
PMA - MINDORO  
ENGINEERING SERVICES DIVISION

DATE:  
11 NOV 2020

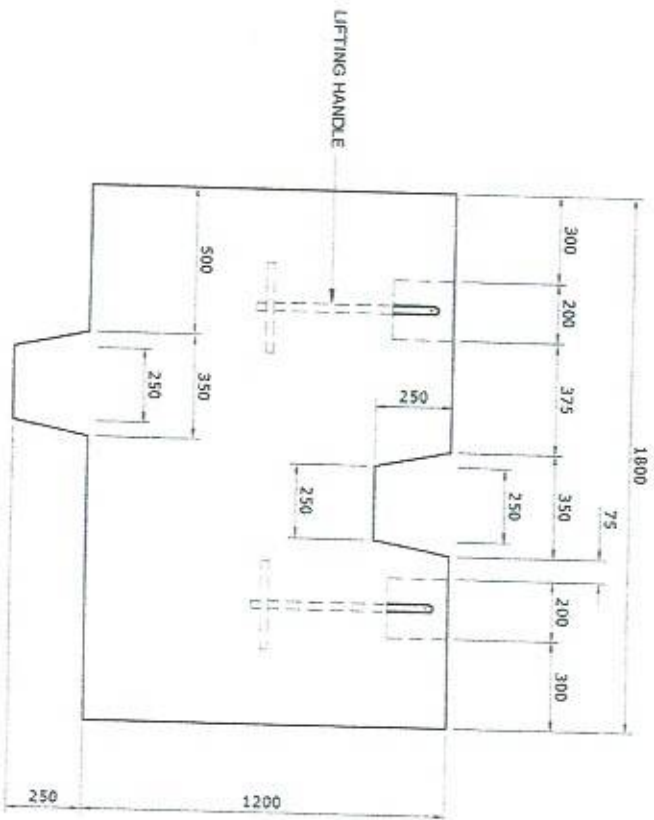




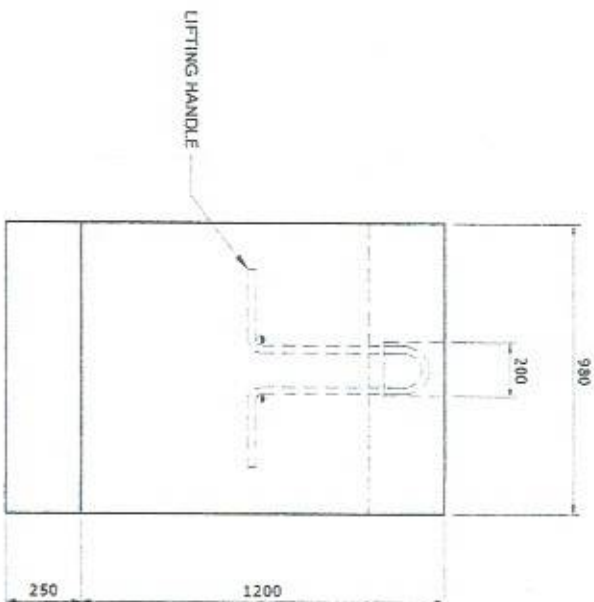
TOP VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

CONC. BLOCK - 2a (CB-2b)

SCALE 1:25 M



PPA MINDORO  
ENGINEERING SERVICES DIVISION

PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MATBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMAILIS  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

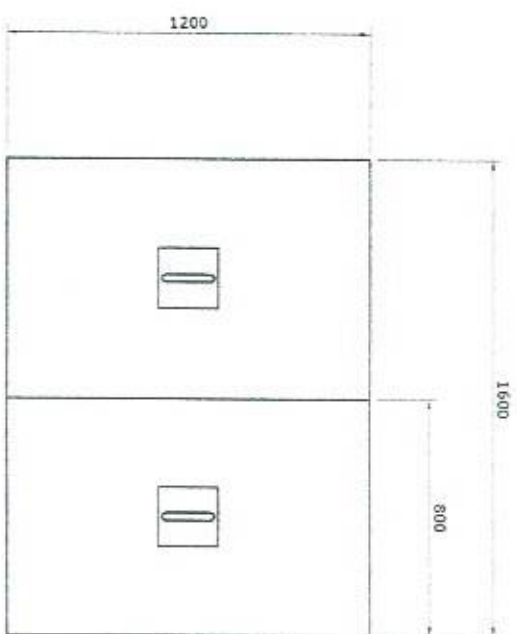
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AS SHOWN

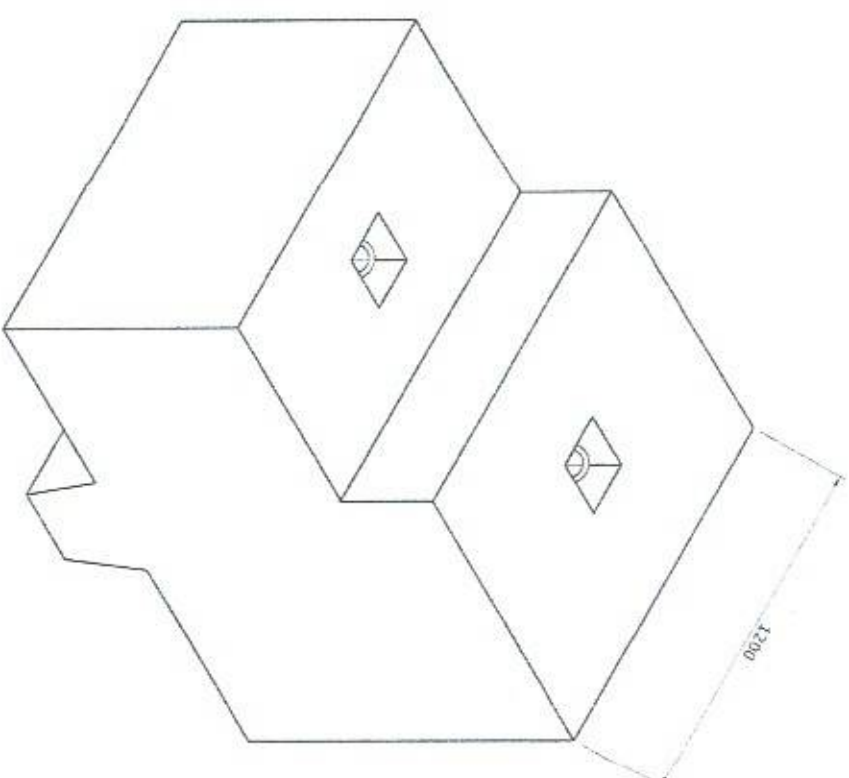
SHEET NO.  
16 of 21

DATE:  
11 NOV 2020

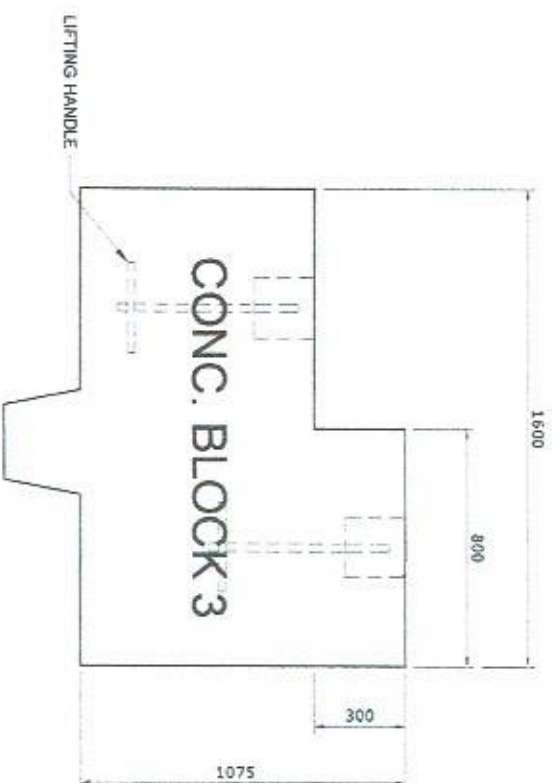




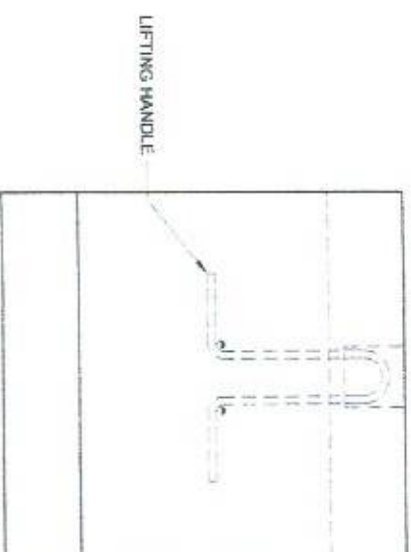
TOP VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

CONC. BLOCK - 3 (CB-3)

SCALE 1:25M

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. SALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON O. DUJAMBABO  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALD O. MAYBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMALIG  
Acting Division Manager A, ESO

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

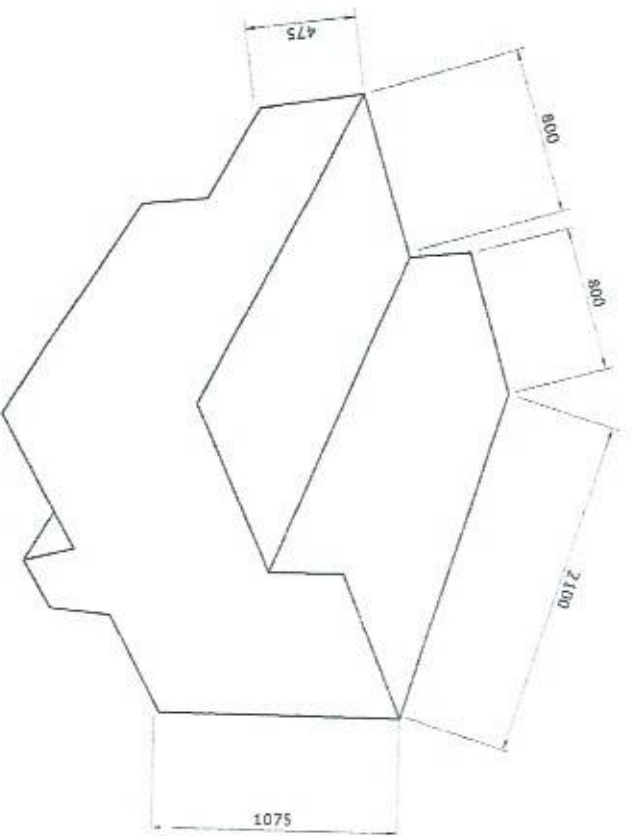
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SHEET NO. 17 of 21

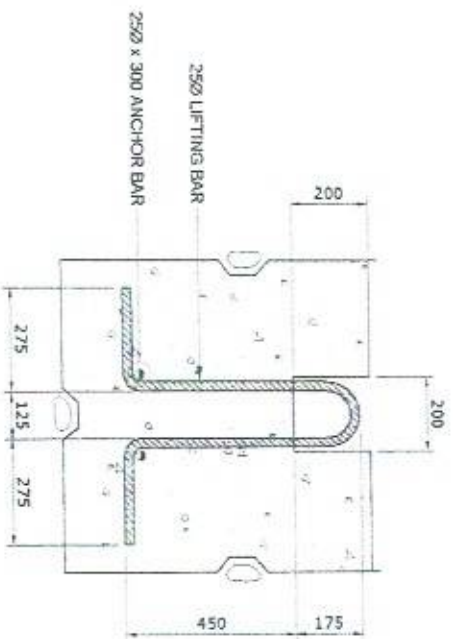
DATE: 11 NOV 2020



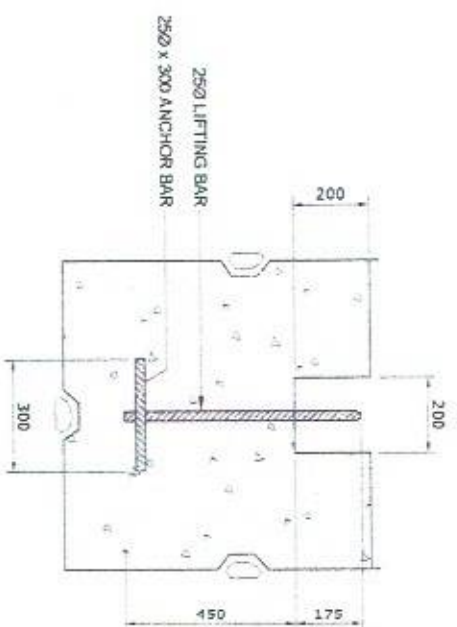




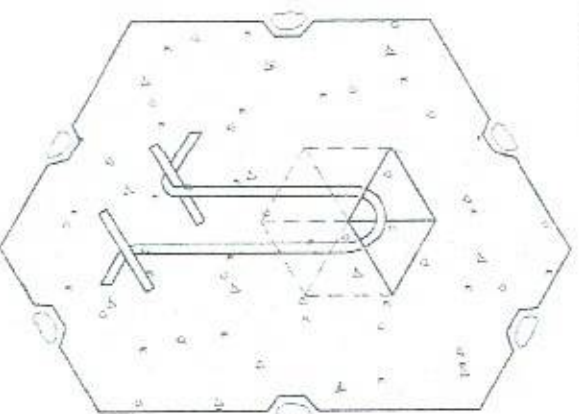
ISOMETRIC VIEW  
CAST IN PLACE CONCRETE



FRONT SECTIONAL ELEVATION



SIDE SECTIONAL ELEVATION



ISOMETRIC VIEW

DETAIL OF LIFTING HANDLE OF  
CONCRETE BLOCKS

SCALE: 1:20 M



PPA - MINDORO  
ENGINEERING SERVICES DIVISION

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"

PORT OF POLA, ORIENTAL MINDORO

PREPARED BY:

FERNANDO J. GALVEZO  
Engineering Assistant A

SUBMITTED BY:

EMERSON D. QUILAMBAG  
Assistant Port Engineer

CHECKED / REVIEWED BY:

RONALDO O. MATIBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMAILIG  
Acting Division Manager A, ESD

APPROVED:

LEO A. ROMERO  
Acting Port Manager A

SHEET CONTENTS:

AS SHOWN

SCALE: AS SHOWN

SHEET NO. 18 of 21

DATE: 11 NOV 2020



LED STREET LIGHTS ( see detail/specification )

SOLAR PANEL. See Specification / Description WITH HOT DIPPED GALVANIZED FRAME

NOTE:  
Steel Post, Solar lights including Battery, Solar panel, Charger & other accessories will be supplied by the PPA.

PERSPECTIVE

SINGLE BRACKET TYPE TAPERED STEEL POST ( HOT DIPPED GALVANIZED )  
3"Ø Top x 7"Ø Base x 25 ft. x 4.5mm thk.

SEE DETAIL OF CONC. PEDESTAL

### DETAIL OF SINGLE TAPERED STEEL POST TO BE REPAIRED

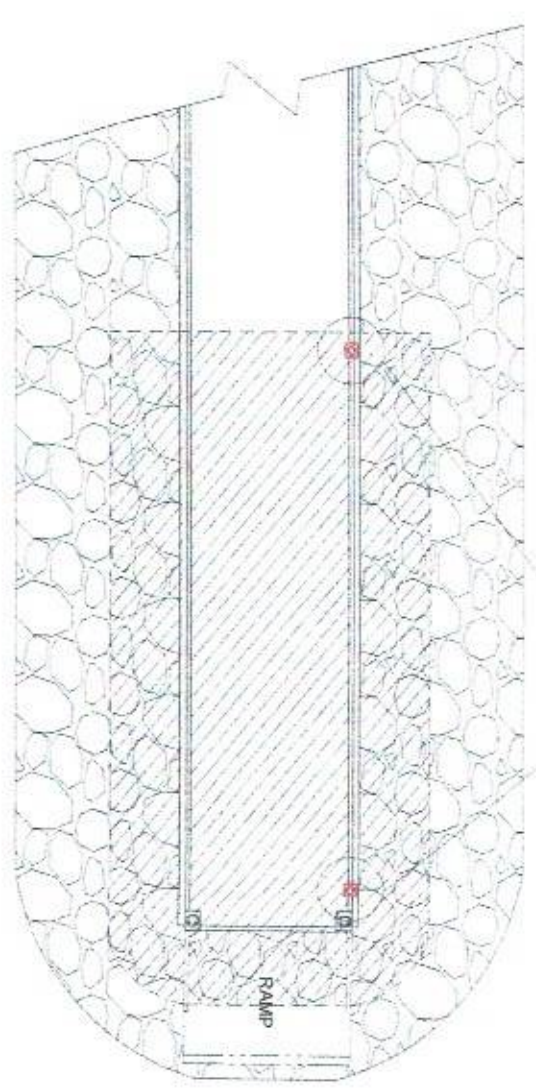


SCALE

DESCRIPTION	QTY	UOM
<b>Single Tapered Steel Post</b> T3-7-25-SBT 4.5MM Thick x 3" Top Dia x 7" Base Dia x 25 Feet Height, Single Bracket Type Arm, 1.5M Stretch, Welded w/ base plate 3/4" x 12" x 12" and 4 pcs base stiffeners 6mm x 18mm x 55mm x 8", w/ handhole supported w/ flat bar 4.5MM Thick x (4"W x 3"D x 6"L) comp. with anchor bolts 1" x 30" w/ nuts and washer, all HDG	1	set(s)
<b>Solar Panel Bracket</b>	1	set(s)

DESCRIPTION	QTY	UOM
<b>112W LED Solar Streetlight</b> Cool White	1	set(s)
<b>200AH/12V Gel Battery</b> Size: 52.2x24x21.6cm New Weight: 56kg	2	pc(s)
<b>225W/36V Solar Panel</b> Size: 158x99x4cm Net Weight: 18.2kg	2	pc(s)
<b>Solar Charger / Inverter</b> 12V/30A	1	pc(s)
<b>Battery Box</b> Double 200AH box	1	pc(s)

PORT LIGHTING SYSTEM TO BE REPAIRED  
SEE DETAIL



#### PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

SHEET CONTENTS:

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Assistant Port Engineer

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LEO A. ROMERO  
Acting Port Manager A

AS SHOWN

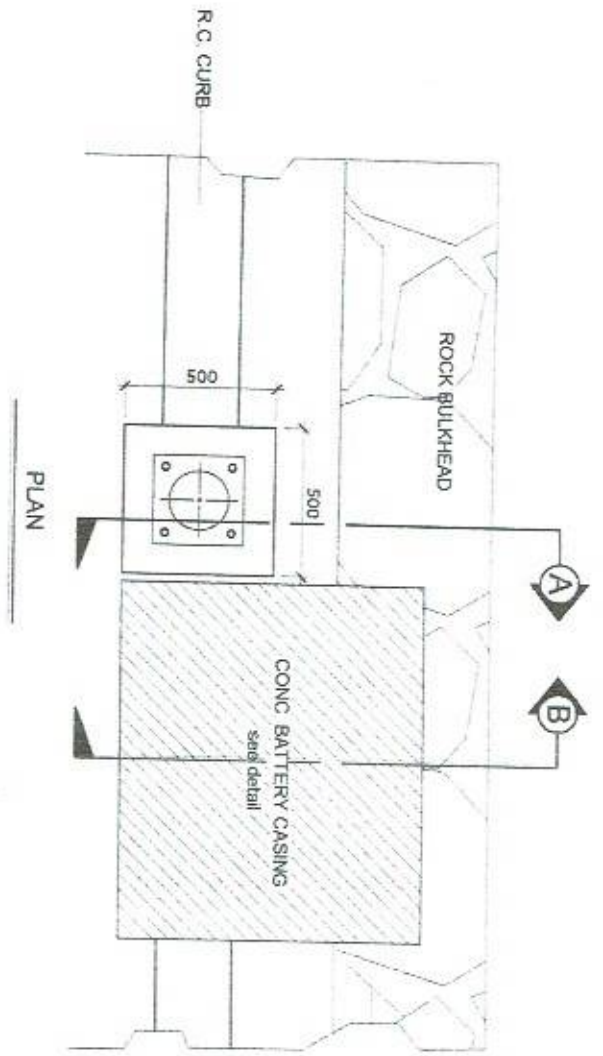
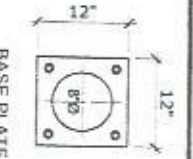
SHEET NO.  
19 of 21



PMA-MINDORO  
ENGINEERING SERVICES DIVISION

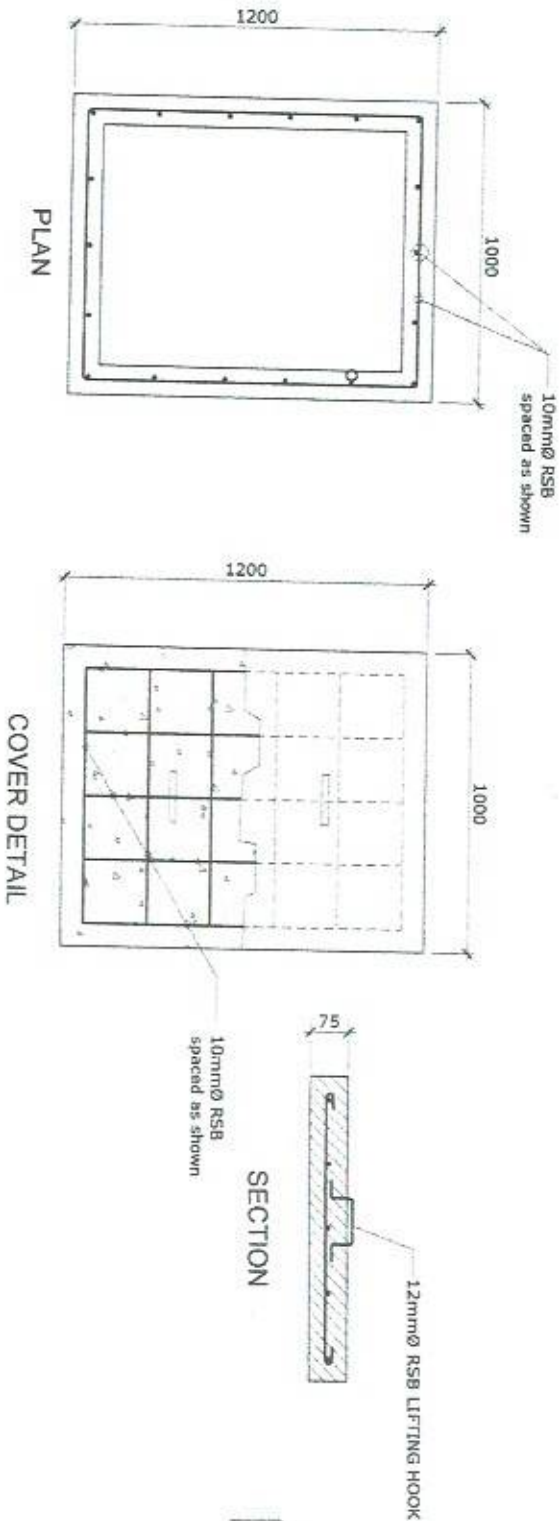
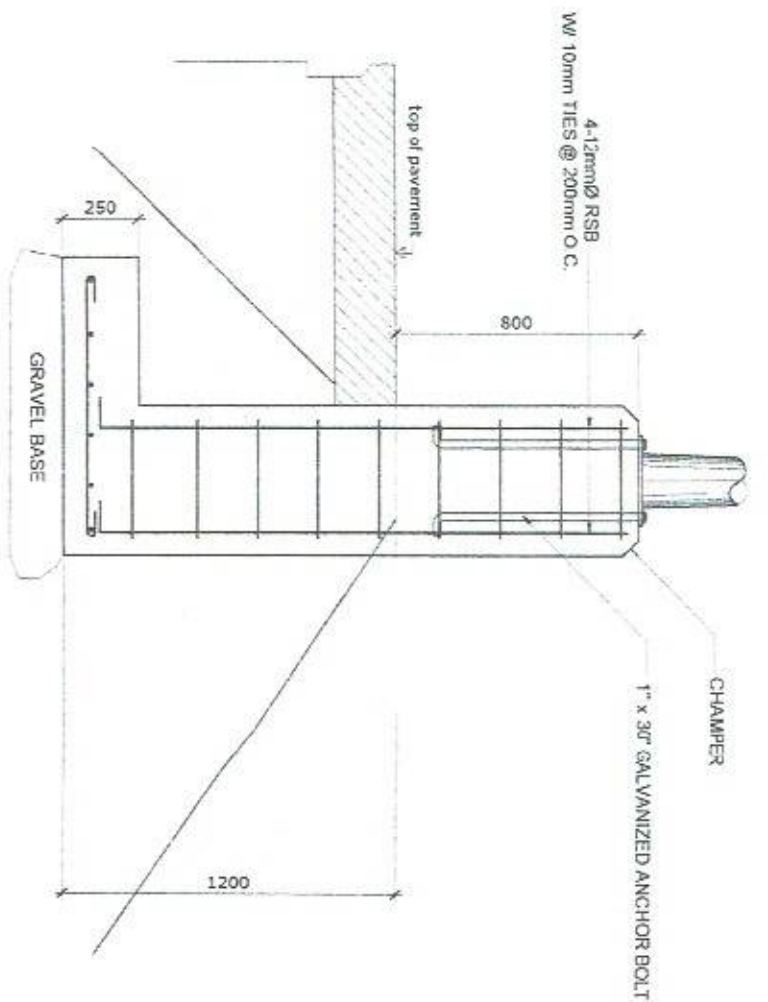
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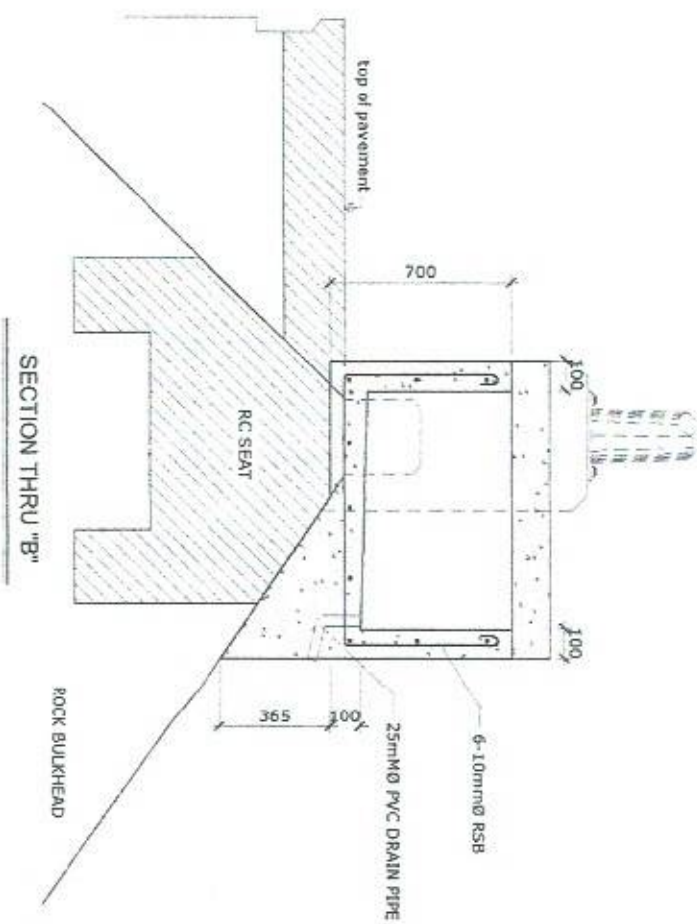
STEEL POST CONC. PEDESTAL DETAIL

SCALE 1:25 M



TYPICAL DETAIL OF CONCRETE BATTERY CASING

SCALE 1:25 M



SECTION THRU "B"



PHILIPPINE PORTS AUTHORITY  
ENGINEERING SERVICES DIVISION

PROJECT TITLE: REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

SHEET CONTENTS: AS SHOWN

SCALE: AS SHOWN

PREPARED BY:

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RONALDO O. MAYBAG  
Acting Principal Engineer A

RECOMMENDING APPROVAL:

MARGARITO P. DIMOLIG  
Acting Division Manager A, ESD

APPROVED:

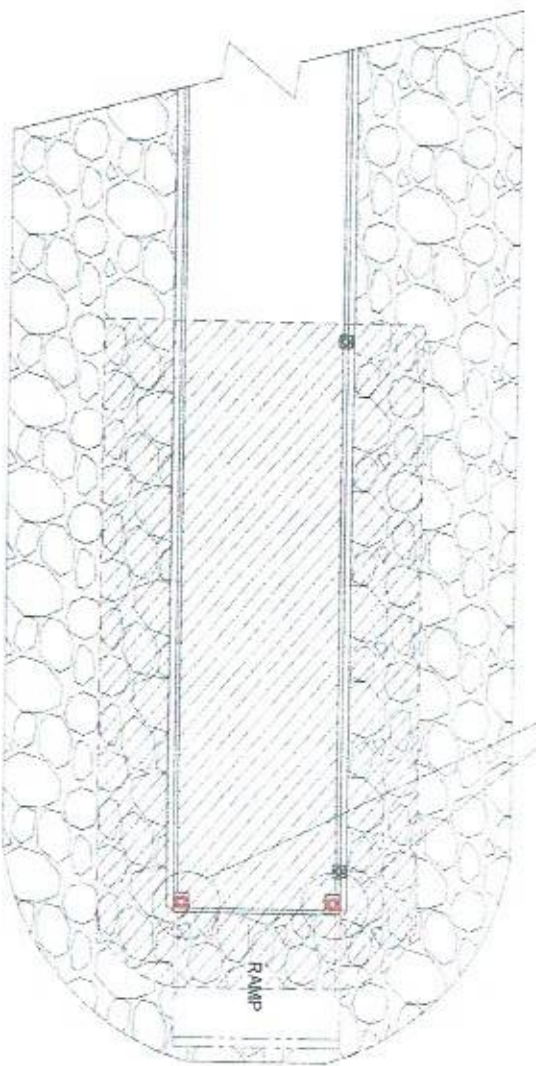
LEO A. ROMERO  
Acting Port Manager A

AS SHOWN

SHEET NO. 20 of 21

DATE: 11 NOV 2020

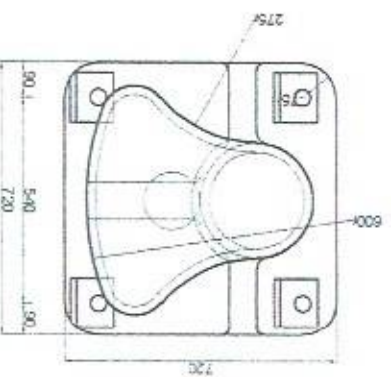




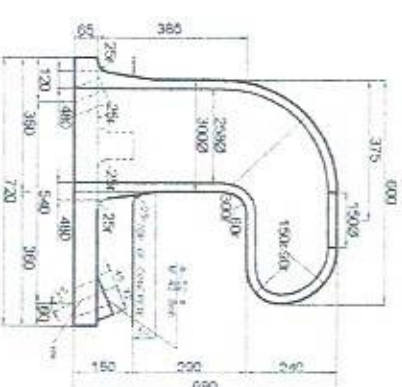
MOORINGSYSTEM TO BE REPAIRED  
SEE DETAIL

## MATERIALS AND WEIGHT

NO.	DESCRIPTION	MATERIALS AND SPECIFICATION	ALLOW. STRESS (kgf/cm <sup>2</sup> )	QTY.	WEIGHT PER PC (kg)	WT (kg)
1	BODY	JIS G 5101 3 GRADE SC 46	1,400	1	420	420
2	ANCHOR BOLT	JIS G 3101 2 GRADE SS41 JIS B 0205 M 48-5	1,400	4	9	36
3	HEXAGON NUTS	JIS B 1181 1 GRADE 4T M42-4.5	-	8	-	-
4	PLAIN WASHER	JIS B 1256 ROUND STEEL JIS G 3101 2 GRADE SS41	-	4	-	-
5	ANCHOR RING	JIS G 5101 3 GRADE SC46 OR JIS G 5101 3 GRADE SC46	1,400	4	8	32

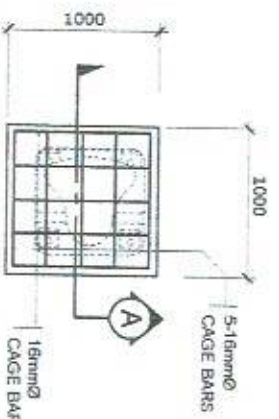


PLAN

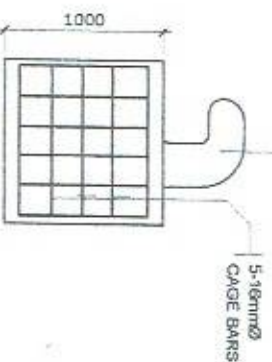


SECTION

NOTE  
25 TON MOORING BOLLARD (to be supplied by PPA)  
only BOLTS, NUTS & WASHERS will be  
supplied & installed by the contractor



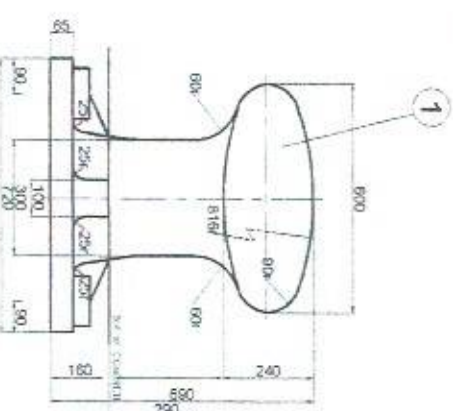
PLAN



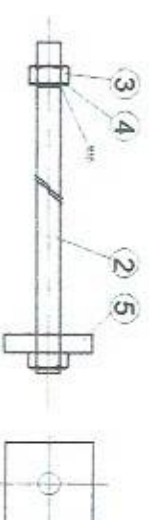
SECTION THRU "A"

## TYPICAL REINFORCEMENT OF BOLLARD BLOCK

SCALE 1 : 50



ELEVATION



## 25 TON MOORING TEE HEAD DETAIL

SCALE 1 : 200

### PROJECT TITLE:

REPAIR OF CAUSEWAY, ROCK BULKHEAD AND PAVEMENT DAMAGED BY TYPHOON "QUINTA"  
PORT OF POLA, ORIENTAL MINDORO

### SHEET CONTENTS:

SCALE:  
AS SHOWN

### PREPARED BY:

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Engineering Assistant A

### SUBMITTED BY:

EMERSON D. QUIAMBAO  
Assistant Port Engineer

### CHECKED / REVIEWED BY:

RONALD O. MANTABAG  
Acting Principal Engineer A

### RECOMMENDING APPROVAL:

MARGARITO F. DIMALLIG  
Acting Division Manager A, ESD

### APPROVED:

LEO A. ROMERO  
Acting Port Manager A

### AS SHOWN

SHEET NO.  
21 of 21



PMO - MINDORO  
ENGINEERING SERVICES DIVISION

DATE:  
11 NOV 2020