

**PHILIPPINE  
PORTS  
AUTHORITY**



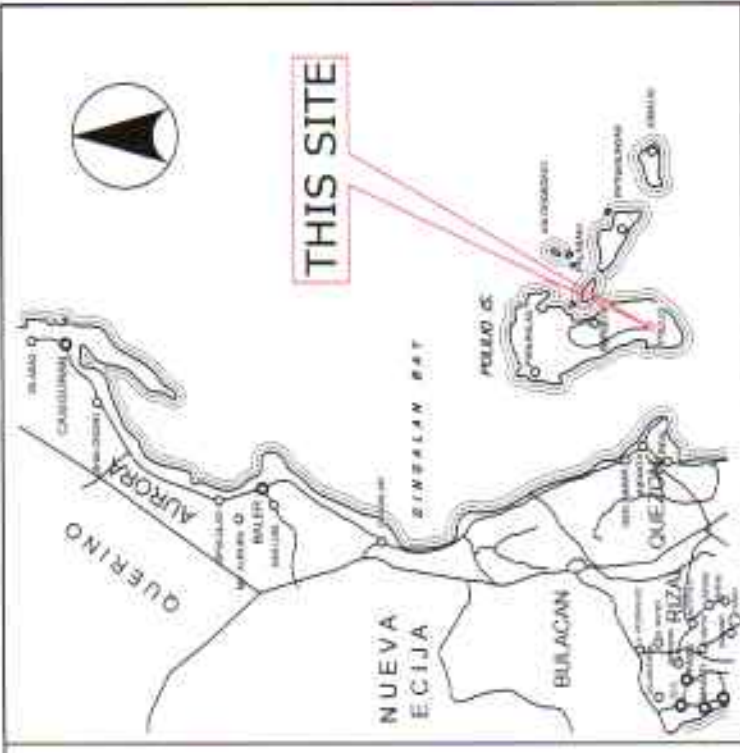
**PORT MANAGEMENT OFFICE - MARINDUQUE/QUEZON**

# **CONSTRUCTION DRAWINGS**

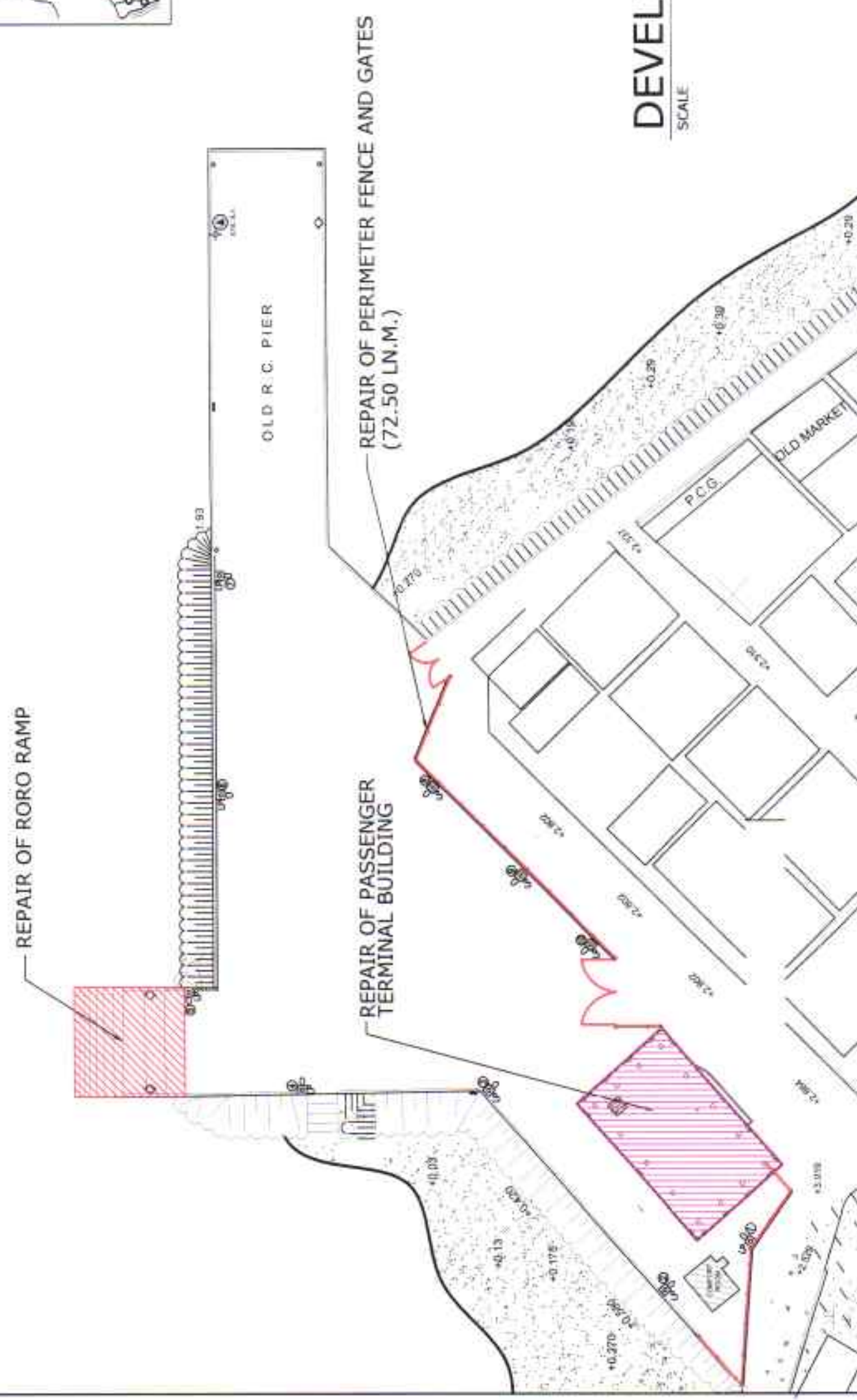
## **REPAIR OF DAMAGED PORT FACILITIES**

**PORT OF POLILLO**

**QUEZON**



VICINITY MAP  
NOT TO SCALE



DEVELOPMENT PLAN  
SCALE 1:500

<p>PHILIPPINE PORTS AUTHORITY</p>	<p>PORT MANAGEMENT OFFICE - MARQUEZ</p>	<p>PROJECT/LOCATION:</p> <p><b>REPAIR OF DAMAGED PORT FACILITIES</b></p> <p>PORT OF POLILLO</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i> MARK ANDREW S. PINEDA SENIOR ENGINEER A</p>	<p>REVIEWED/RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i> PAUL A. LIBATIQUE ACTING ESD MANAGER</p>	<p>APPROVED:</p> <p><i>[Signature]</i> FRANCISQUEL Q. MANCILE PORT MANAGER</p>	<p>SHEET CONTENTS</p> <ul style="list-style-type: none"> <li>• DEVELOPMENT PLAN</li> <li>• VICINITY MAP</li> </ul>	<p>SHEET NO.</p> <p><b>1 / 20</b></p>
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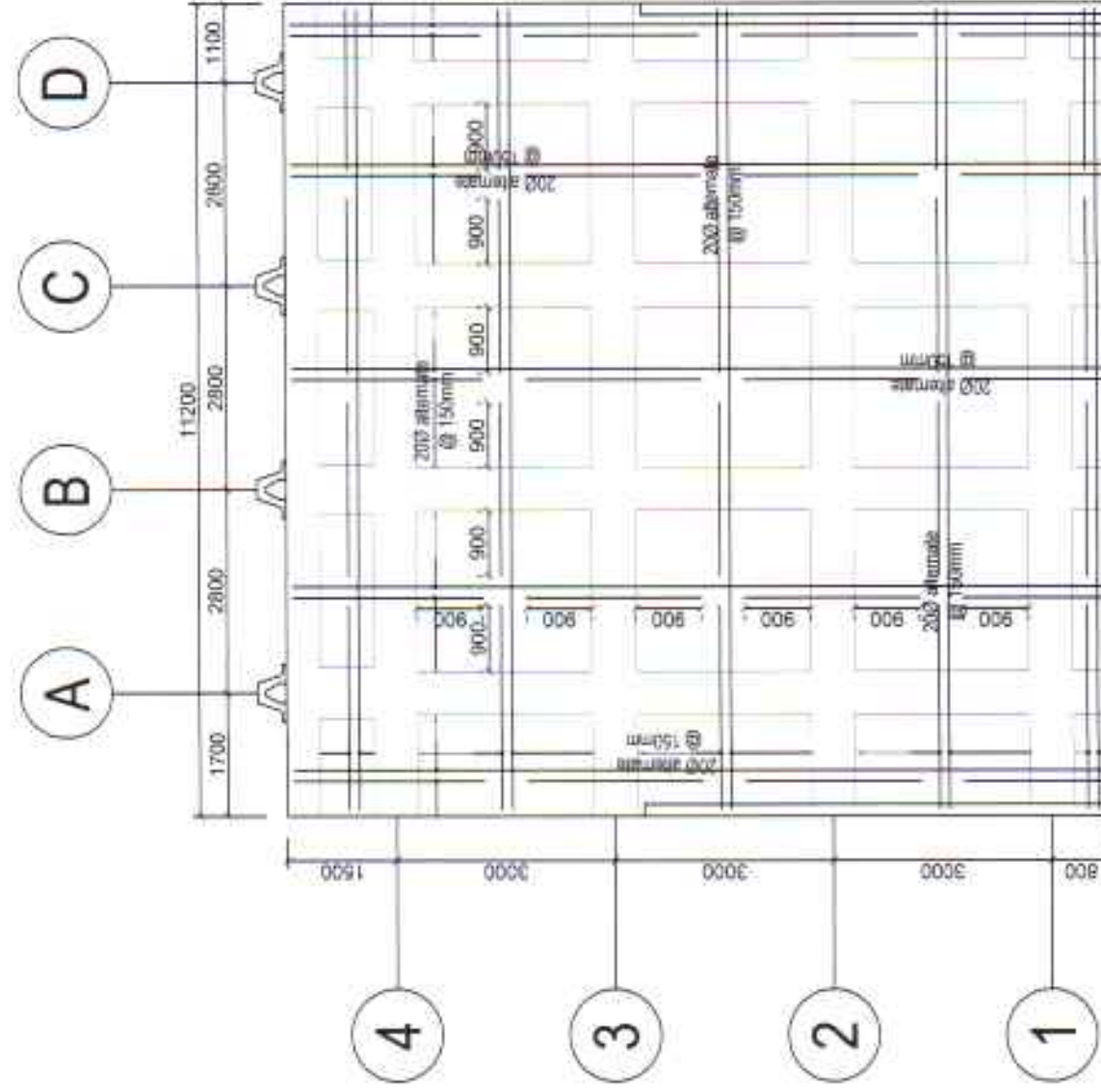




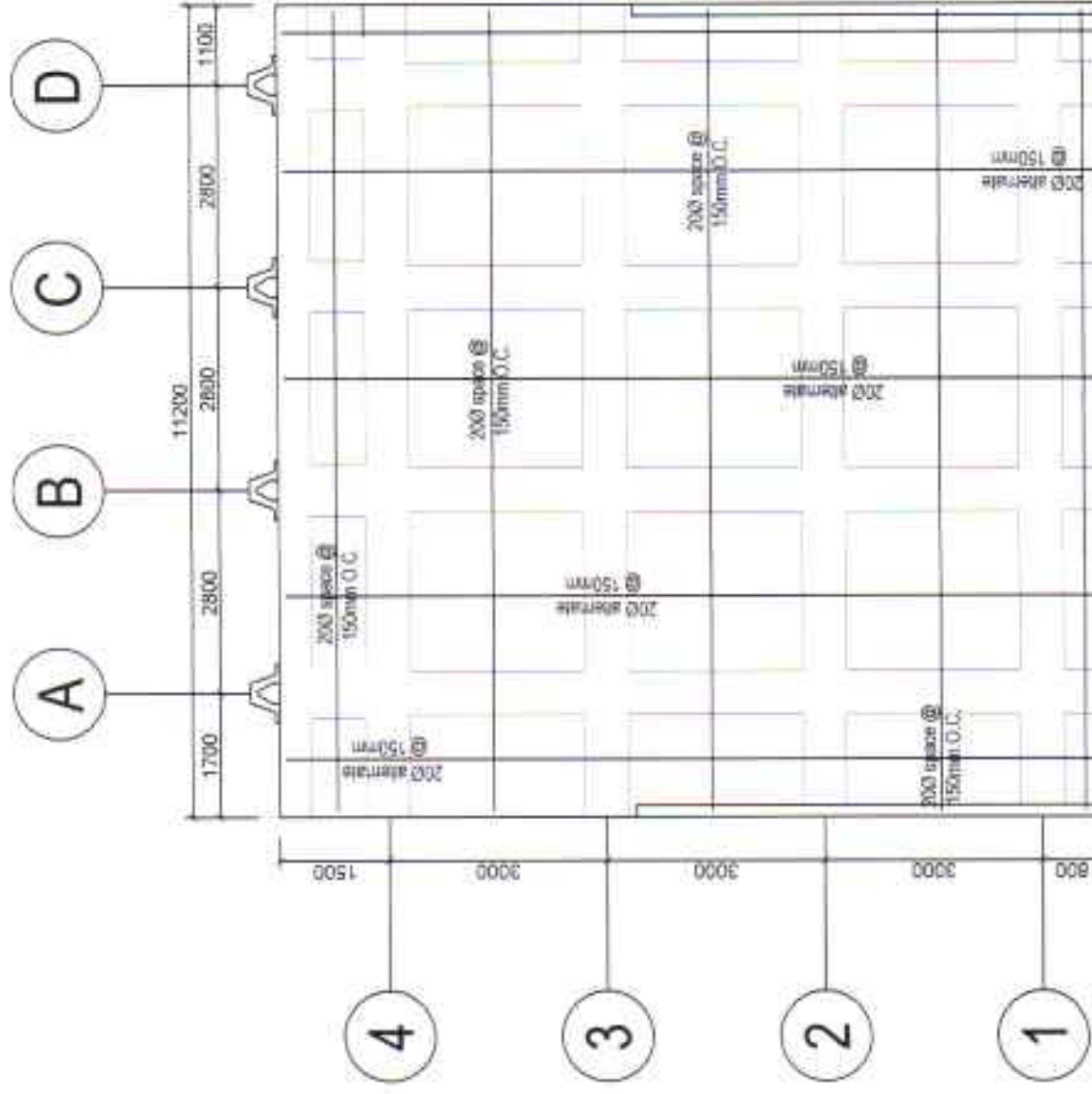




CAST-IN PLACE GIRDERS,  
SLAB, COLUMNS, FOOTING  
 $F_c^* = 32 \text{ MPa}$  (4,500 PSI)  
 $F_y = 276 \text{ MPa}$  (40,000 PSI)



DETAIL OF TOP BARS



DETAIL OF BOTTOM BARS

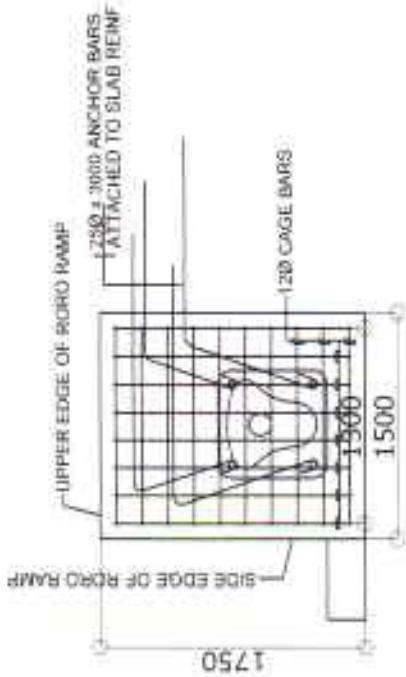
## DECK SLAB REINFORCEMENT DETAILS

SCALE  
1:100 M

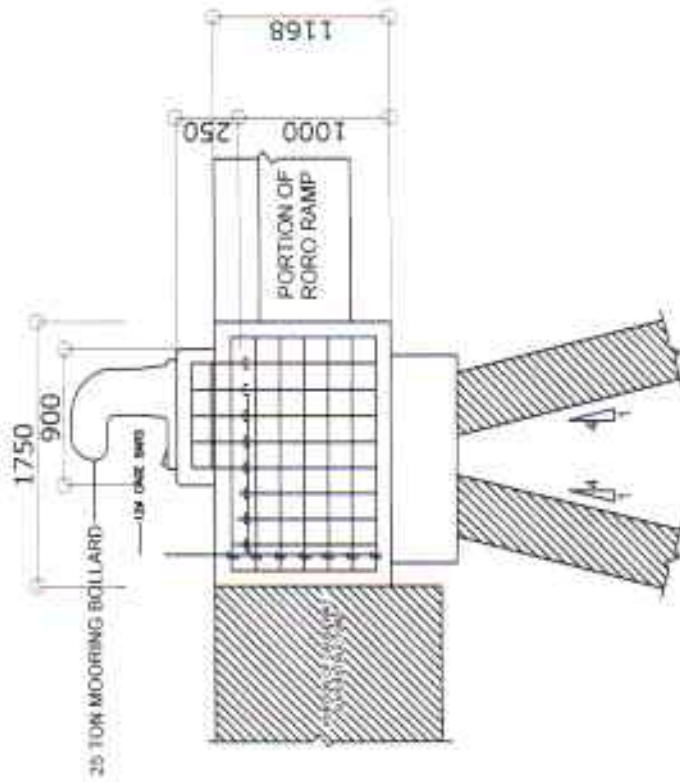
 <b>PHILIPPINE PORTS AUTHORITY</b>	<b>PROJECT/LOCATION:</b>		<b>REPAIR OF DAMAGED PORT FACILITIES</b>	 <b>MARK ANDREW S. PINEDA</b> <small>SERVICES ENGINEER A</small>	 <b>RAUL A. LIBA</b> <small>ACTING ESD MANAGER</small>	 <b>FRANCISQUIEL O. MANCILE</b> <small>PORT MANAGER</small>	<b>SHEET CONTENTS:</b>	<b>SHEET NO.:</b>
	<b>PORT OF POLILLO</b>		<b>POLILLO</b>	● DECK SLAB REINFORCEMENT DETAIL		<b>4 / 20</b>		

NOTES:

CAST-IN PLACE CONCRETE  
SLAB, COLUMNS, FOOTING  
 $F_c' = 52 \text{ MPa}$  (4,500 PSI)  
 $F_y = 276 \text{ MPa}$  (40,000 PSI)

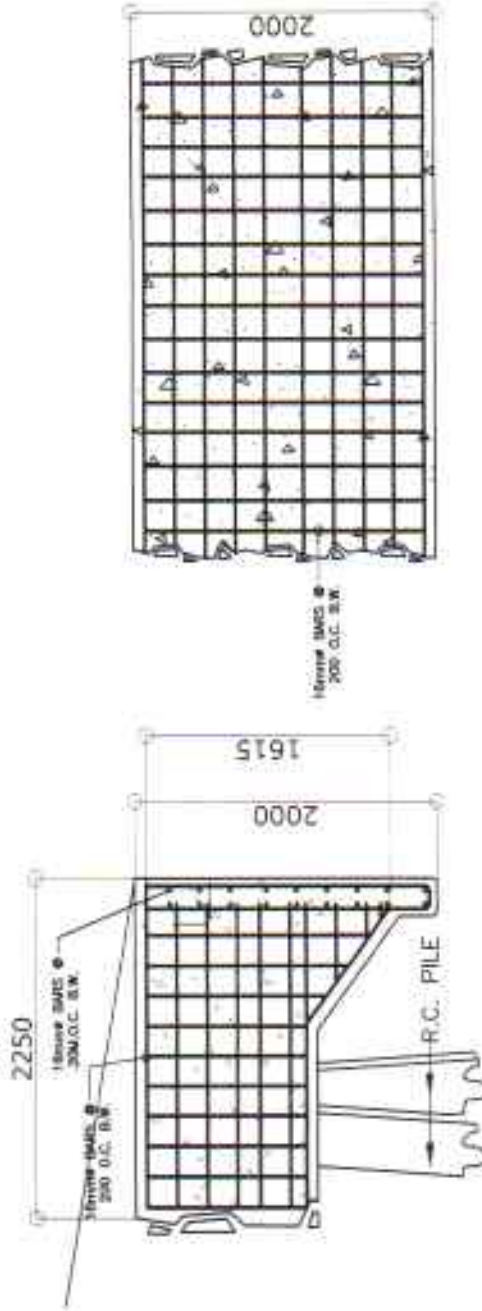


PLAN



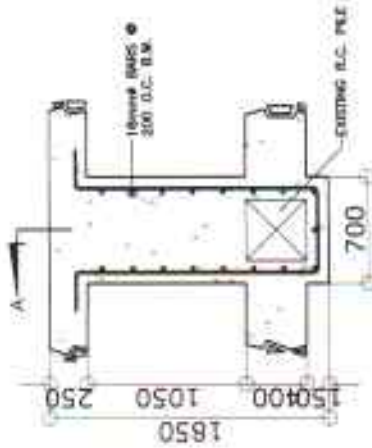
SIDE ELEVATION

DETAIL OF MOORING ATTACHMENT  
SCALE 1:50 M



SIDE ELEVATION

FRONT ELEVATION



PLAN

DETAIL OF FENDER BLOCK  
SCALE 1:50 M



PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT/LOCATION:

REPAIR OF DAMAGED  
PORT FACILITIES  
PORT OF POLILLO  
POLILLO

PREPARED BY:

MARK ANDREW S. PIÑEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

RAUL A. LIBATIQUE  
ACTING ESD MANAGER

APPROVED:

FRANCISQUEL O. MANCILE  
PORT MANAGER

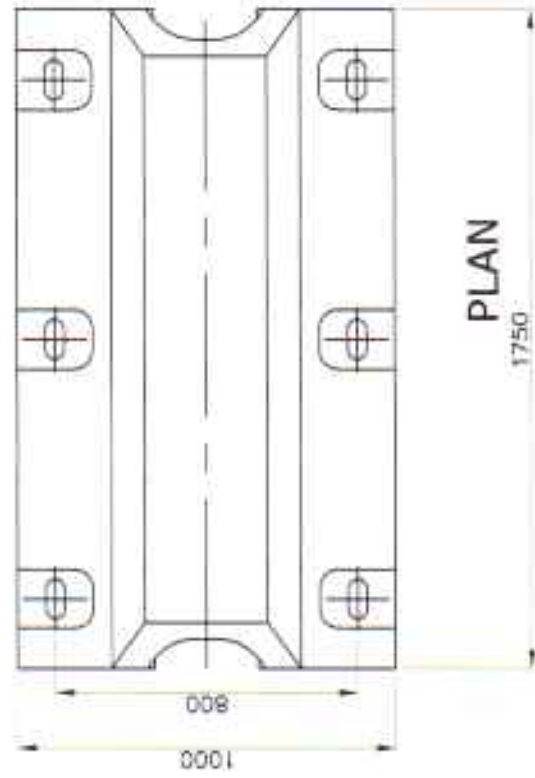
SHEET CONTENTS

- DETAIL OF MOORING ATTACHMENT
- DETAIL OF FENDER BLOCK

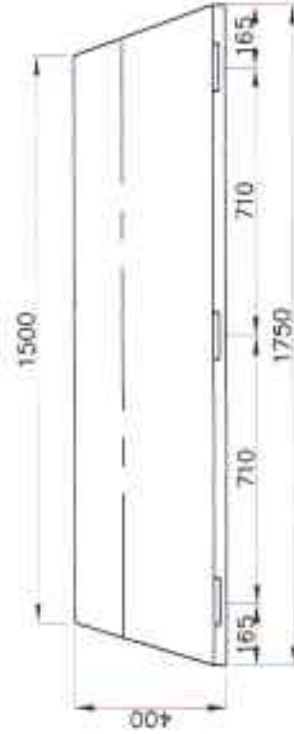
SHEET NO.

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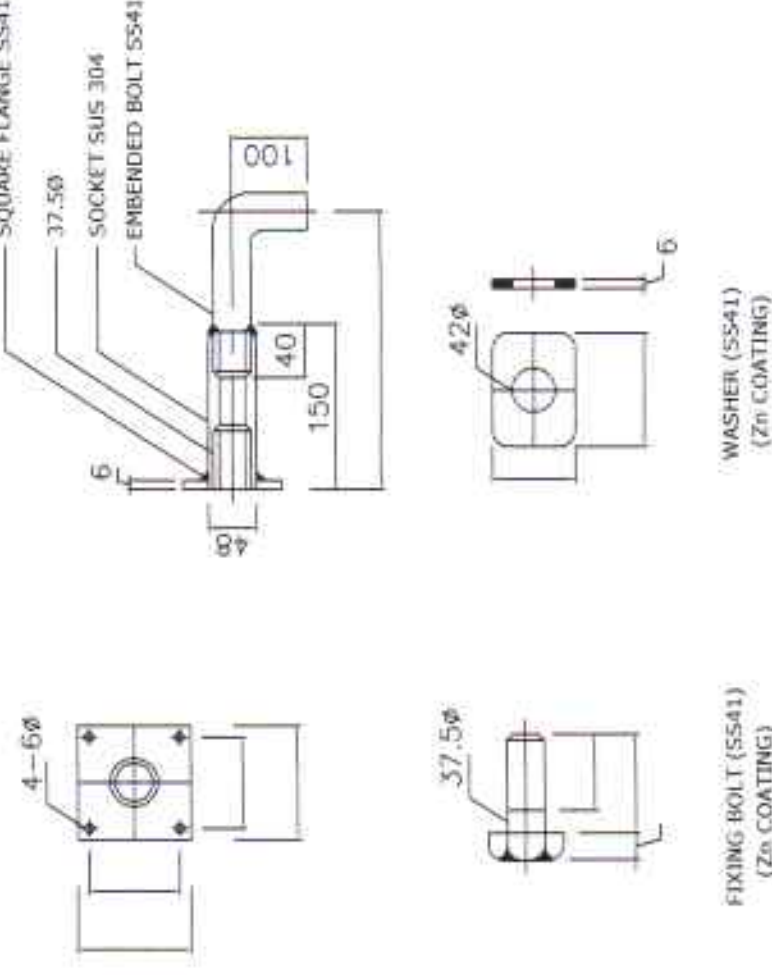
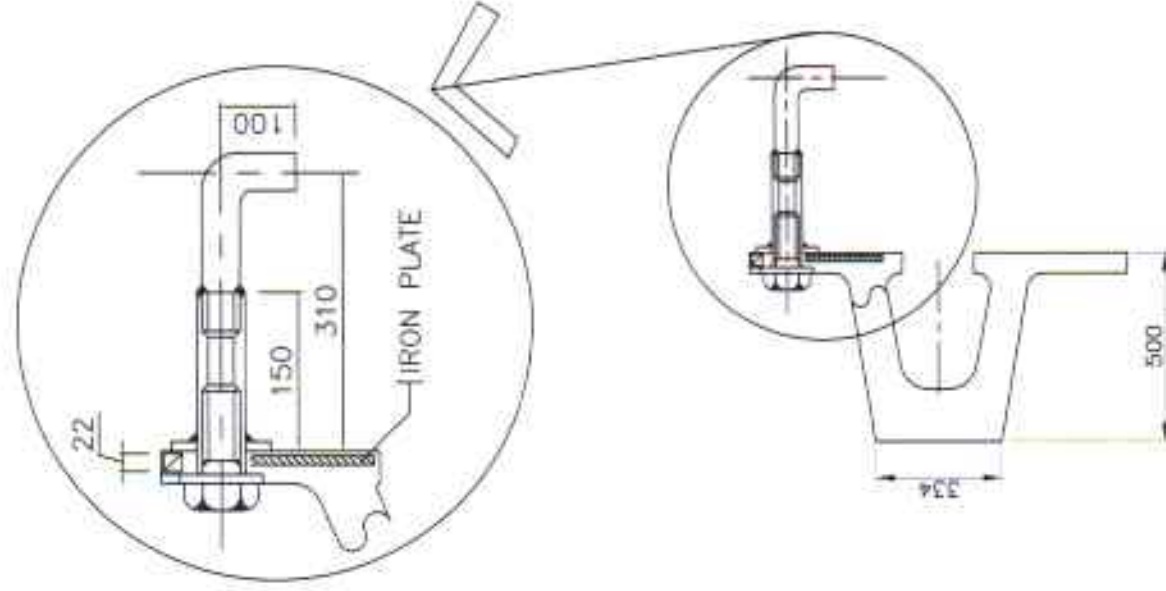




PLAN



ELEVATION



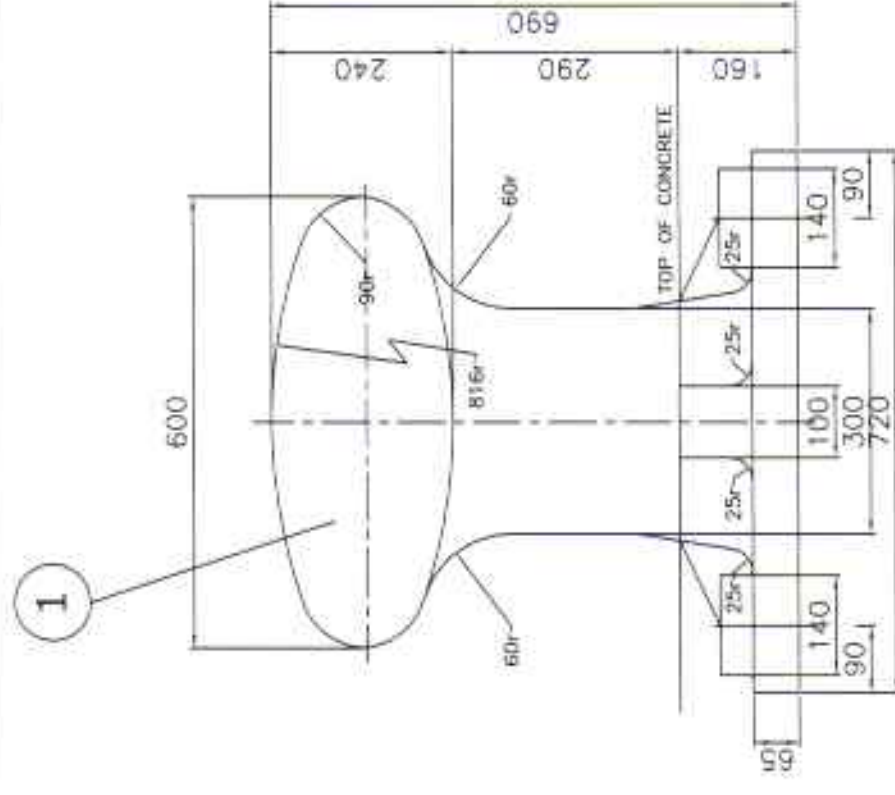
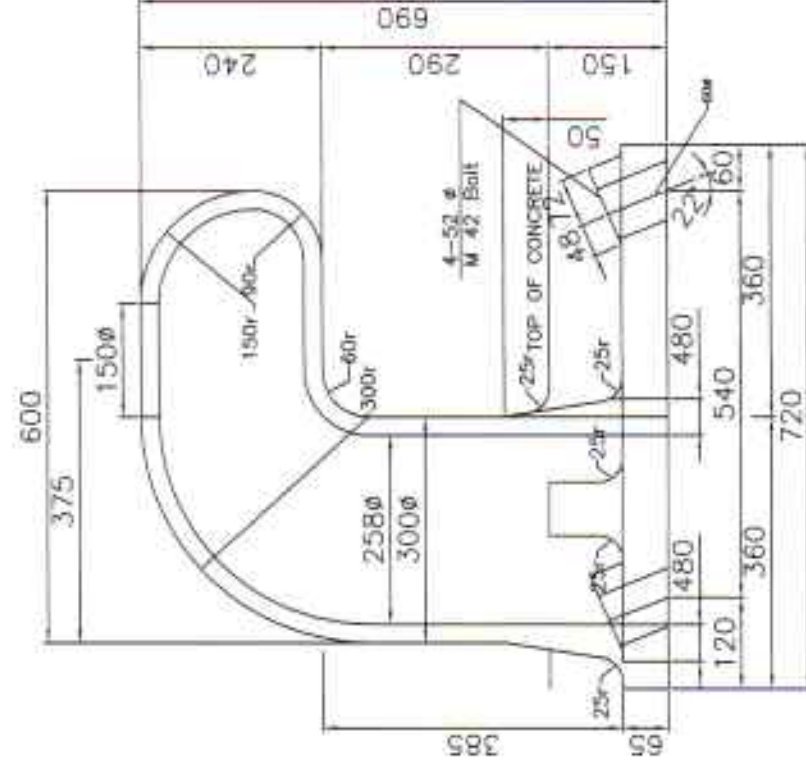
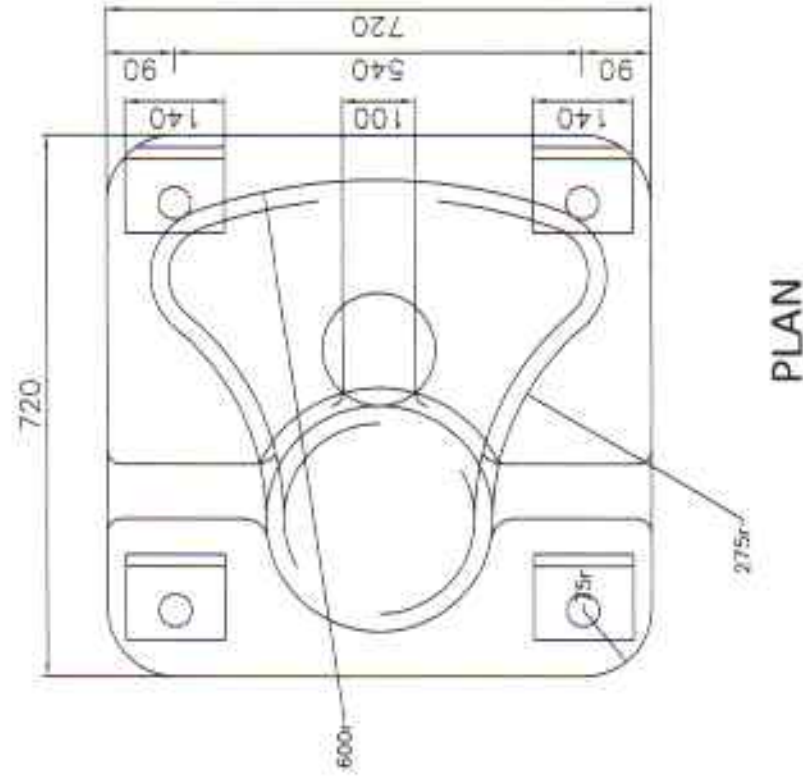
DETAIL OF ANCHOR BOLT (NORMAL)

### PERFORMANCE CHARACTERISTIC OF HV-500x1500 (V-Type)

AT RATED DEFLECTION OF FENDER (45%)			
HULL PRESSURE	REACTION FORCE	ENERGY ABSORPTION	
TON / M	TON	TON / M	
72 (MAX.)	42.2 (MAX.)	7.03 (MIN.)	

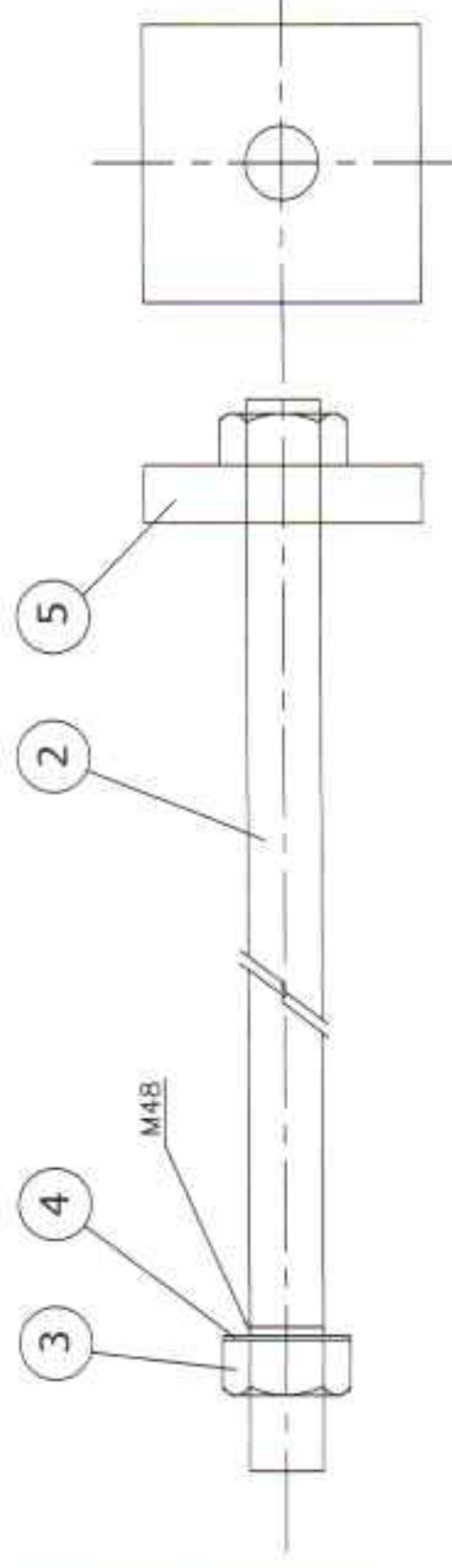
### DETAIL OF RUBBER DOCK FENDER (HV-500x1500)

SCALE 1:20 M



## MATERIALS AND WEIGHT

NO.	DESCRIPTION	MATERIALS AND SPECIFICATION	ALLOW. STRESS (kgf/cm <sup>2</sup> )	QTY.	WEIGHT PER PC. (kgf)	WT. (kgf)
1	BODY	JIS G 5101 3 GRADE SC 46	1,400	1	420	426
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	-	4	-	-
5	ANCHOR RING	JIS G 3101 2 GRADE SS41 OR JIS G 5101 3 GRADE SC46	1,400	4	8	32



## 25 TON MOORING BOLLARD

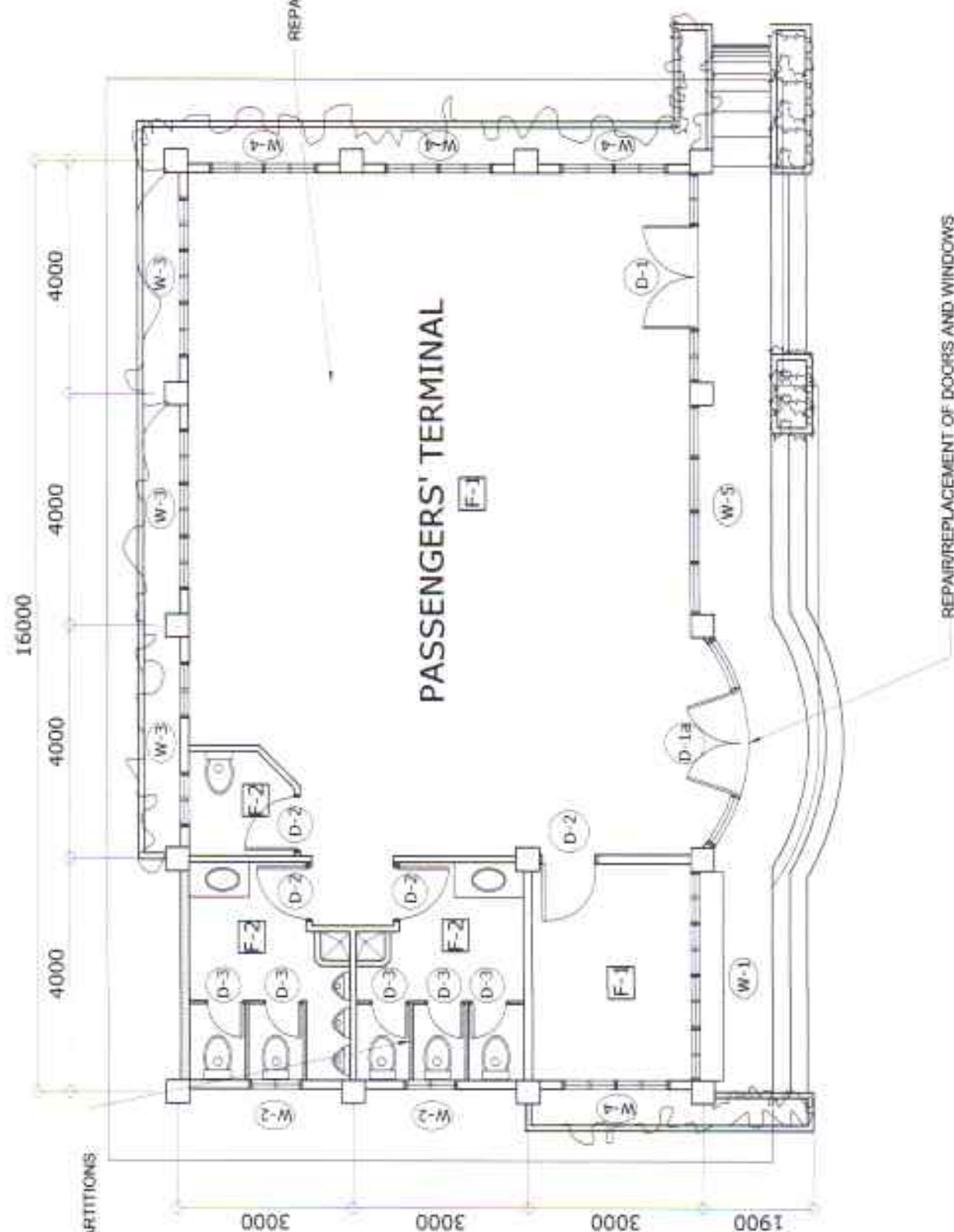
SCALE 1:10 M



F-1 F-2

REPAIR/REPLACEMENT OF TOILET FIXTURES AND PARTITIONS

REPAIR/REPLACEMENT OF FLOOR TILES



PTB FLOOR PLAN  
SCALE 1:100 M

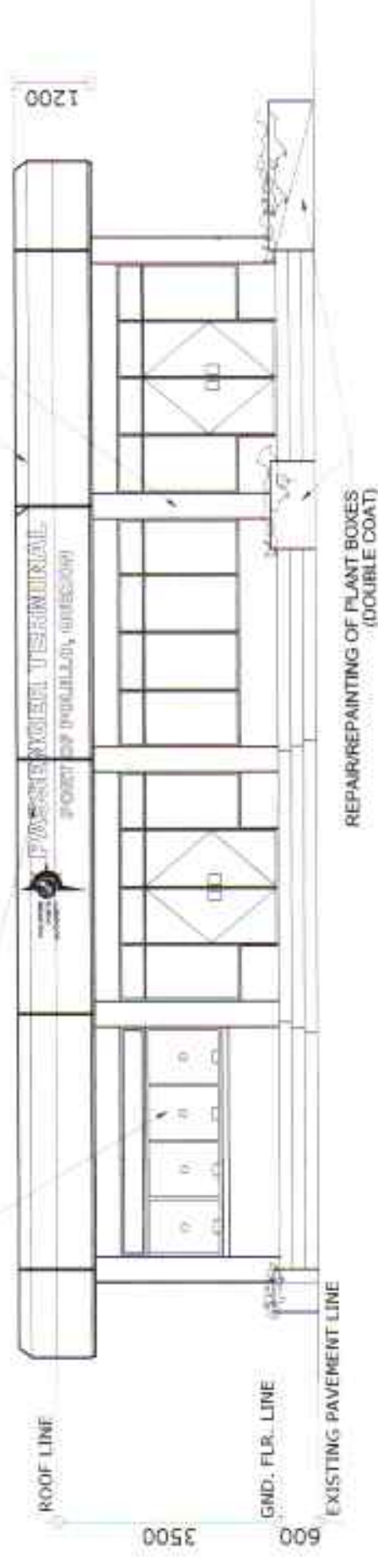
 PHILIPPINE PORTS AUTHORITY  PORT MANAGEMENT OFFICE - MARQUEZ	PROJECT/LOCATION:	REPAIR OF DAMAGED PORT FACILITIES  PORT OF ROBLITO	PREPARED BY:  MARK ANDREW S. PIÑEDA SENIOR ENGINEER A	REVIEWED/RECOMMENDING APPROVAL:  RAUL A. LIBATIQUE ACTING ESD MANAGER	APPROVED:  FRANCISQUEL O. MANCILE PORT MANAGER	SHEET CONTENTS:  ● PTB FLOOR PLAN	SHEET NO.
						8 / 20	

PARAPET WRAPPED BY 4MM THK. ALUMINUM COMPOSITE PANEL  
FINISH: POLYETHYLENE (PE) & POLYVINYLIDENE FLUORIDE (PVDF)  
W/ NANO-TECHNOLOGY (SEE DETAIL)

REPAIR/REPAINTING OF EXTERIOR AND INTERIOR WALL  
(DOUBLE COAT)

LED ACRYLIC SIGNAGE  
(SEE DETAIL)

REPAIR/REPLACEMENT OF DOORS AND WINDOWS

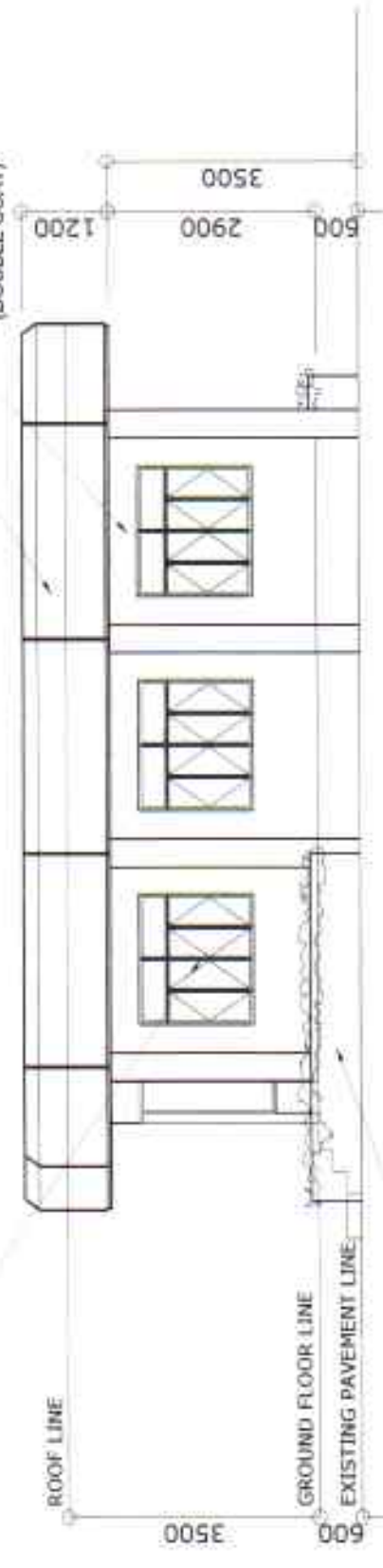


**FRONT ELEVATION**  
SCALE 1 : 100

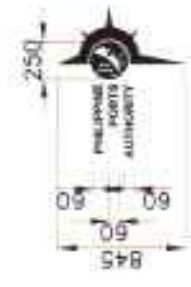
PARAPET WRAPPED BY 4MM THK. ALUMINUM COMPOSITE PANEL  
FINISH: POLYETHYLENE (PE) & POLYVINYLIDENE FLUORIDE (PVDF)  
W/ NANO-TECHNOLOGY (SEE DETAIL)

REPAIR/REPAINTING OF EXTERIOR AND INTERIOR WALL  
(DOUBLE COAT)

REPAIR/REPLACEMENT OF DOORS AND WINDOWS



**RIGHT SIDE ELEVATION**  
SCALE 1 : 100



**PASSENGER TERMINAL**  
PORT OF REAL QUEZON

**DETAIL OF LED ACRYLIC SIGNAGE**  
SCALE 1 : 50



**REPAIR OF DAMAGED  
PORT FACILITIES**  
PORT OF POLILLO

PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT/LOCATION:

PREPARED BY:

REVIEWED/RECOMMENDING APPROVAL:

APPROVED:

SHEET CONTENTS

SHEET NO.

MARK ANDREW S. PIÑEDA  
SENIOR ENGINEER A

RAUL A. LIBATIQUE  
ACTING ESD MANAGER

FRANCISQUE O. MANCILE  
PORT MANAGER

- FRONT ELEVATION
- RIGHT SIDE ELEVATION
- DETAIL OF LED ACRYLIC SIGNAGE

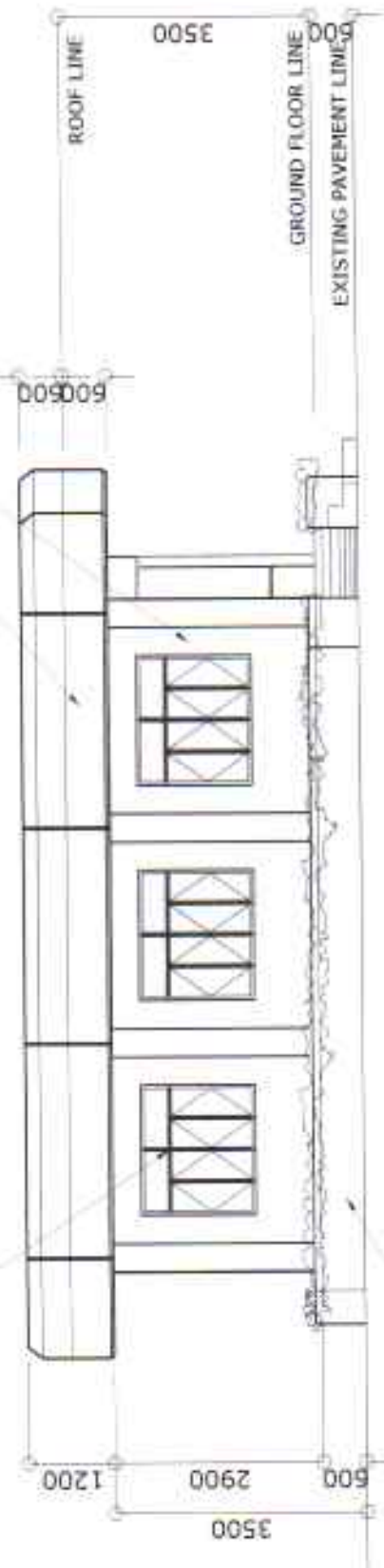
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PARAPET WRAPPED BY 4MM THK. ALUMINUM COMPOSITE PANEL  
FINISH: POLYETHYLENE (PE) & POLYVINYLIDENE FLUORIDE (PVDF)  
W/ NANO-TECHNOLOGY (SEE DETAIL)

REPAIR/REPAINTING OF EXTERIOR AND INTERIOR WALL  
(DOUBLE COAT)

REPAIR/REPLACEMENT OF DOORS AND WINDOWS

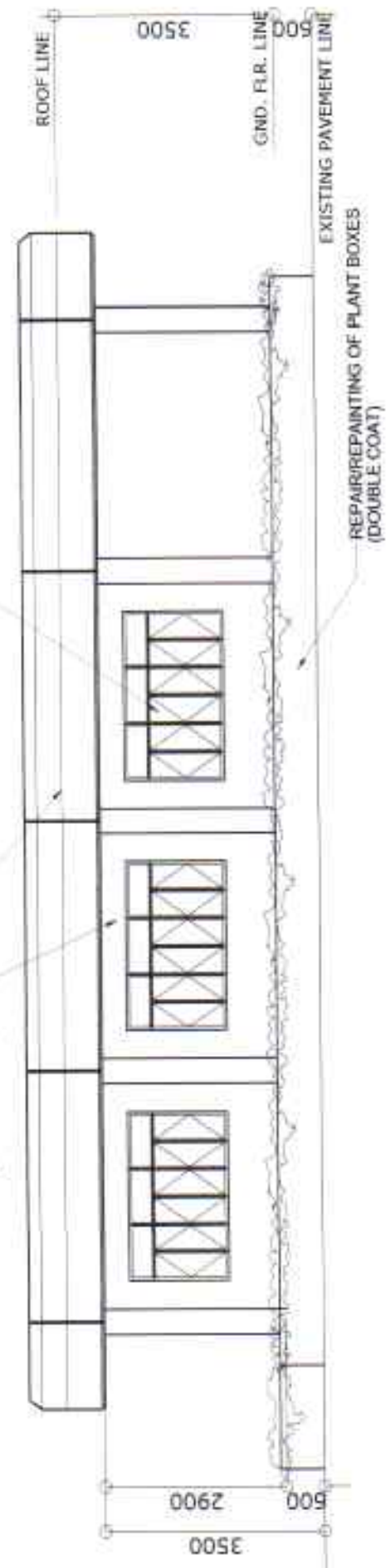


**LEFT SIDE ELEVATION**  
SCALE 1 : 100

PARAPET WRAPPED BY 4MM THK. ALUMINUM COMPOSITE PANEL  
FINISH: POLYETHYLENE (PE) & POLYVINYLIDENE FLUORIDE (PVDF)  
W/ NANO-TECHNOLOGY (SEE DETAIL)

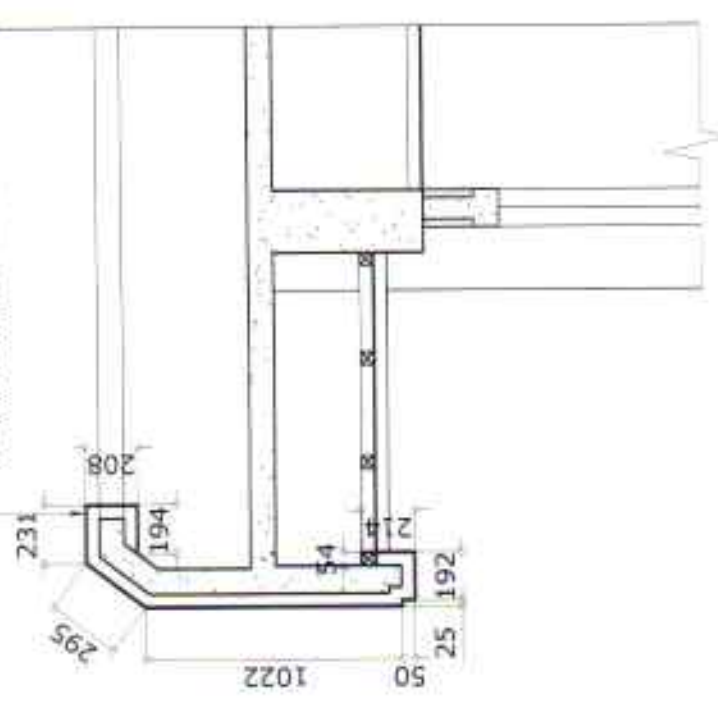
REPAIR/REPAINTING OF EXTERIOR AND INTERIOR WALL  
(DOUBLE COAT)

REPAIR/REPLACEMENT OF DOORS AND WINDOWS



**REAR ELEVATION**  
SCALE 1 : 100

4MM THK. ALUMINUM COMPOSITE PANEL  
IN 50MM X 50MM ACP FRAME



**DETAIL OF ALUMINUM  
COMPOSITE PANEL**  
SCALE 1 : 30



PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT LOCATION:

**REPAIR OF DAMAGED  
PORT FACILITIES**  
PORT OF POLILLO

PREPARED BY:

MARK ANDREW S. PINEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

RAUL M. LIBATIQUE  
ACTING SENIOR MANAGER

APPROVED:

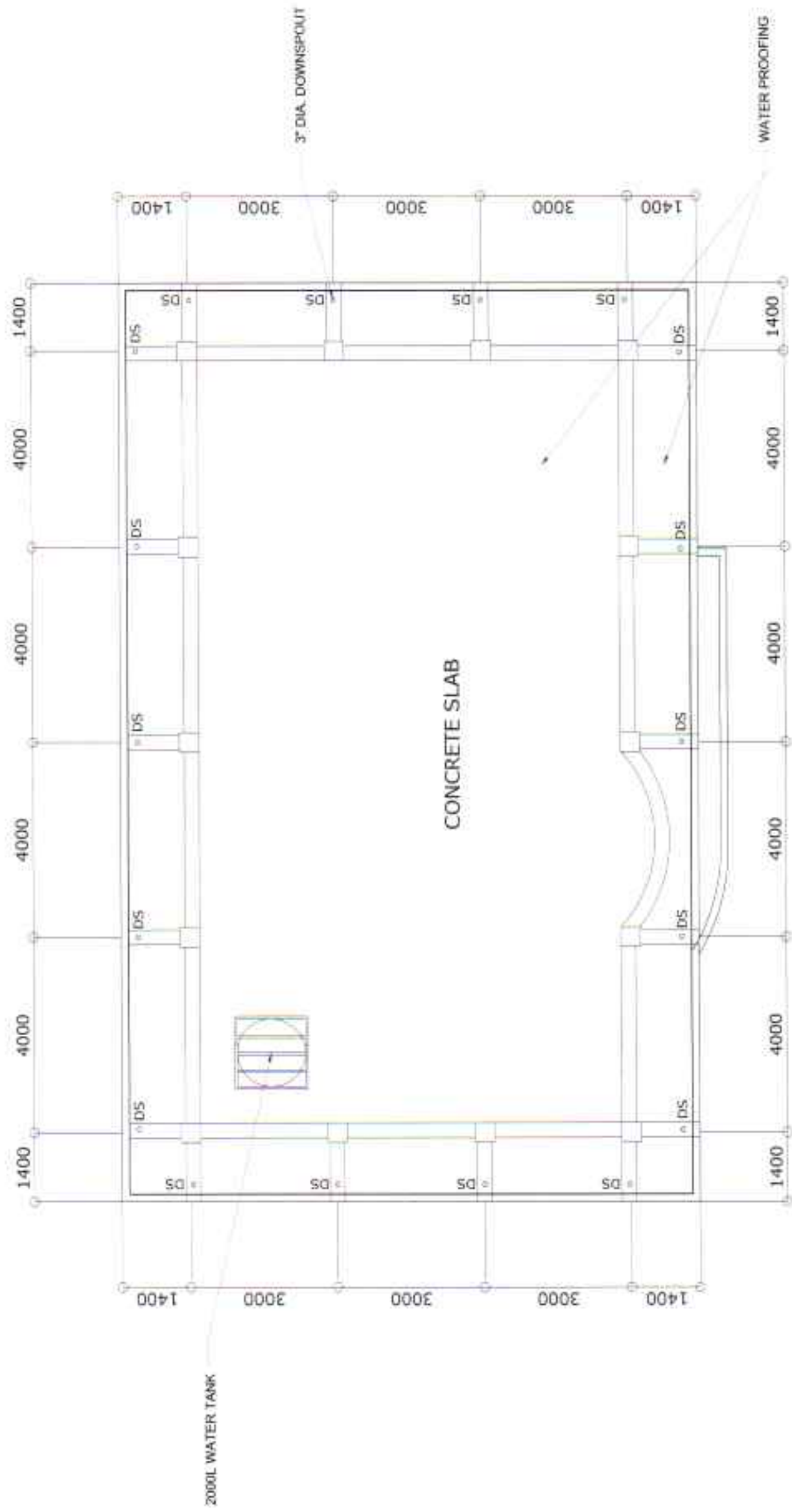
FRANCISQUEL O. MANCILE  
PORT MANAGER

SHEET CONTENTS

- LEFT SIDE ELEVATION
- REAR ELEVATION
- DETAIL OF ALUMINUM COMPOSITE PANEL

SHEET NO.

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ROOF PLAN  
SCALE 1 : 100



PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT/LOCATION:

REPAIR OF DAMAGED  
PORT FACILITIES  
PORT OF POLILLO  
POLILLO

PREPARED BY:

MARK ANDREW S. PINEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

RAJAN A. LIBAYTQUE  
ACTING ESD MANAGER

APPROVED:

FRANCISQUEL O. MANCILE  
PORT MANAGER

SHEET CONTENTS

• ROOF PLAN

SHEET NO.

11/20

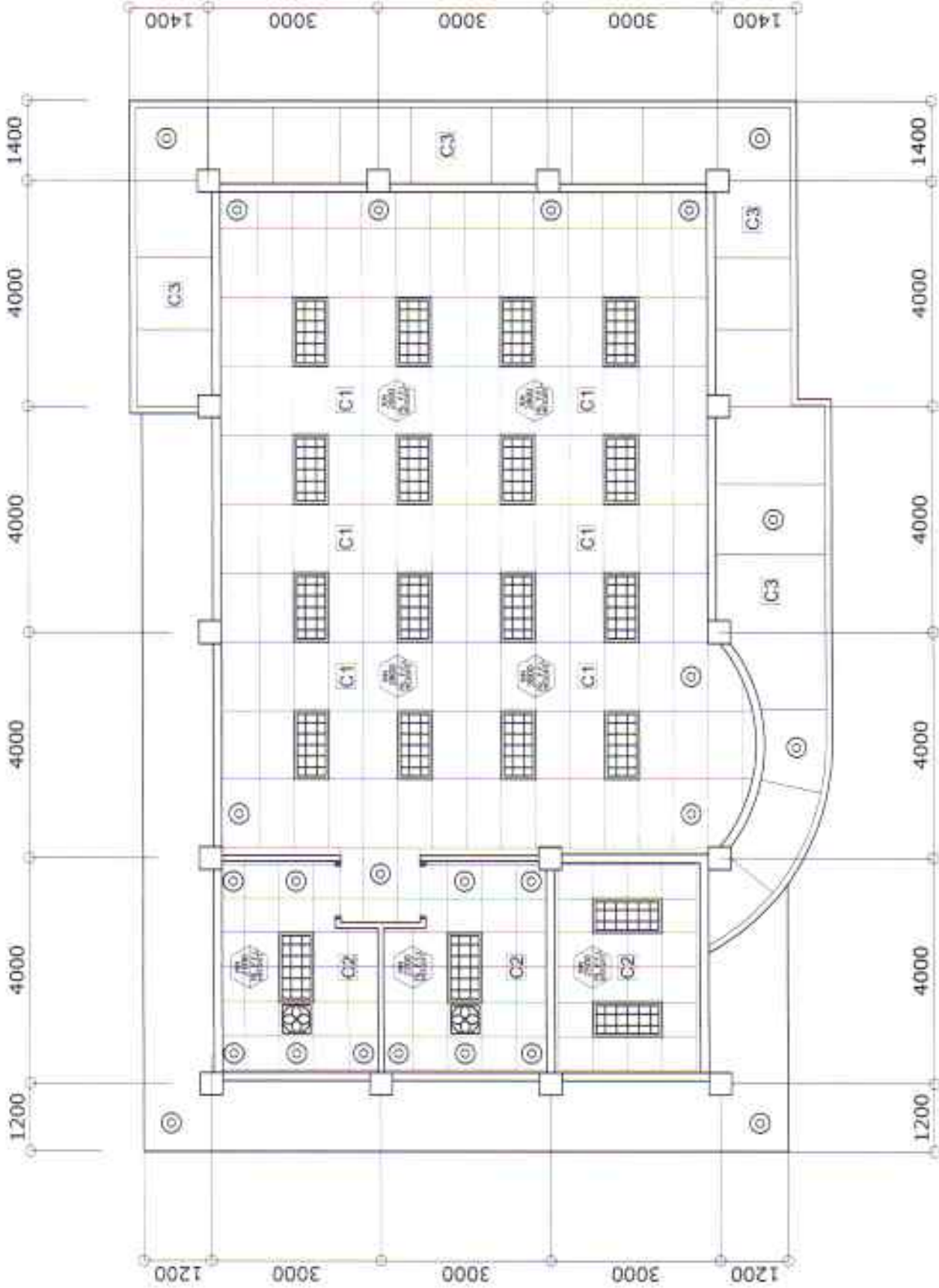


LEGEND:

- C1 ALUMINUM PERFORATED PANELS, 2' x 4'
- C2 ALUMINUM PERFORATED PANELS, 2' x 2'
- C3 5MM THK. MARINE PLYWOOD ON 50MM X 50MM C. JOISTS @ 400MM B.W.

NOTE:

DEMOLISH EXISTING CEILING & CEILING JOISTS



GROUND FLOOR REFLECTED CEILING PLAN  
SCALE 1:100 M



PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT/LOCATION:

REPAIR OF DAMAGED  
PORT FACILITIES  
PORT OF POLILLO

PREPARED BY:

MARK ANDREW S. PIÑEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

PAUL A. LIBATIQUE  
ACTING ESD MANAGER

APPROVED:

FRANCISQUET O. MANCILE  
PORT MANAGER

SHEET CONTENTS

REFLECTED CEILING PLAN

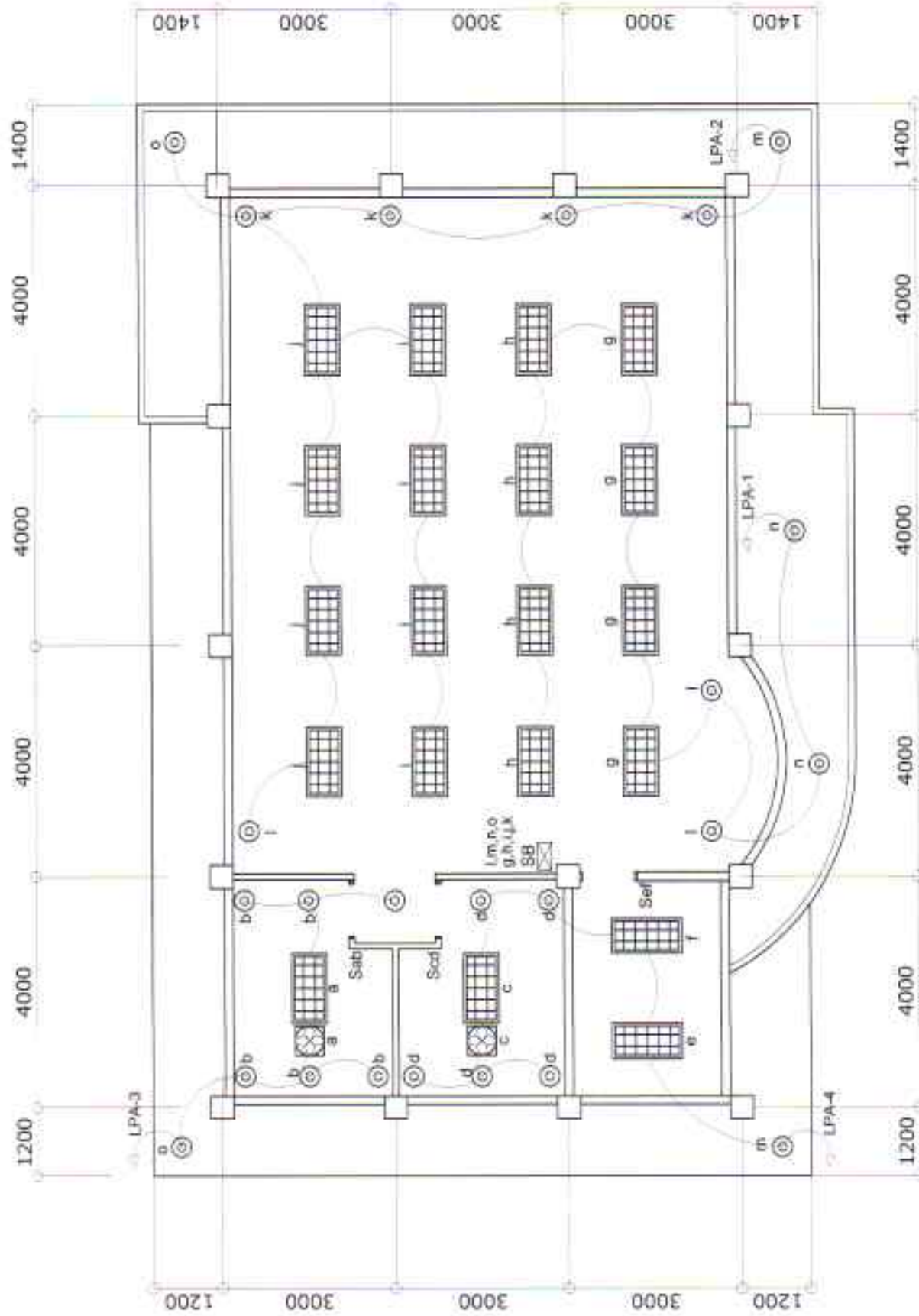
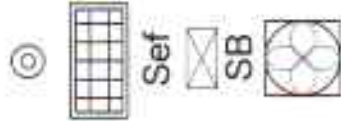
SHEET NO.:

12/20

	<p><b>FIXED GLASS ON ALUMINUM FRAME</b> SETS REQUIRED - ONE</p> <p><b>W-1</b></p> <p><b>ALUMINUM AWNING WINDOW</b> SETS REQUIRED - TWO</p> <p><b>W-2</b></p> <p><b>ALUMINUM CASEMENT WINDOW</b> SETS REQUIRED - THREE</p> <p><b>W-3</b></p> <p><b>ALUMINUM CASEMENT WINDOW</b> SETS REQUIRED - FOUR</p> <p><b>W-4</b></p> <p><b>FIXED WINDOW GLASS ON ALUMINUM FRAME</b> SETS REQUIRED - ONE</p> <p><b>W-5</b></p>		<p><b>PROJECT/LOCATION:</b></p> <p><b>REPAIR OF DAMAGED PORT FACILITIES</b> PORT OF POLILLO</p> <p><b>PREPARED BY:</b></p> <p><b>MARK ANDREW S. PINEDA</b> REGISTERED ENGINEER A.</p> <p><b>REVIEWED/RECOMMENDING APPROVAL:</b></p> <p><b>RAUL A. LIBATIQUE</b> ACTING ESD MANAGER</p> <p><b>APPROVED:</b></p> <p><b>FRANCISQUEL O. MANCILE</b> PORT MANAGER</p> <p><b>SHEET CONTENTS</b></p> <p><b>SCHEDULE OF DOORS AND WINDOWS</b></p> <p><b>SHEET NO. 13/20</b></p>
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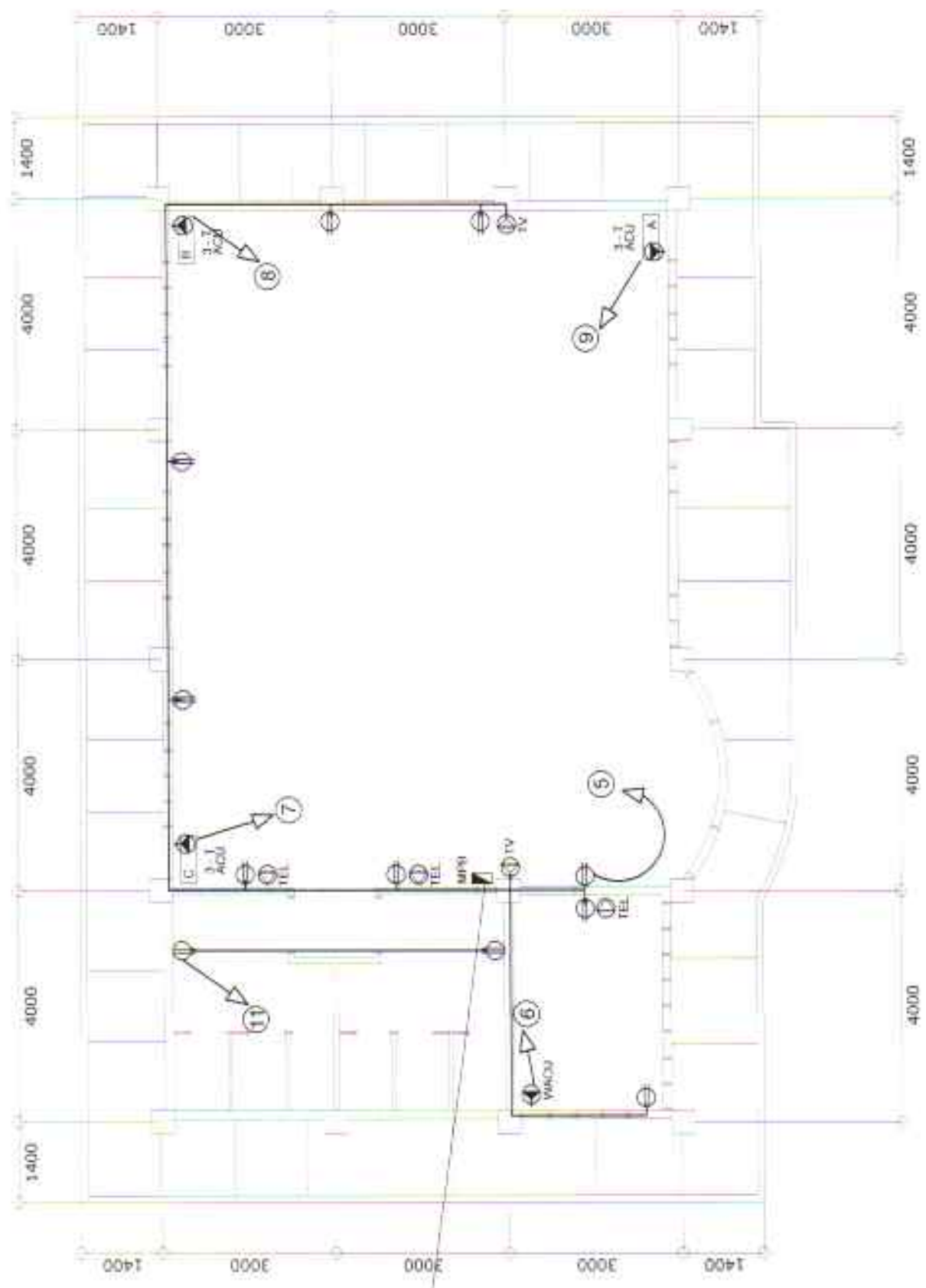
- VERTICAL DOWNLIGHT RECESSED MTD TYPE W/ GLASS COVER  
6" DIA. LAMP HOLDER, 220V, E27, 8-8 WATT LED BULB WARM WHITE
- 2 - 22 WATT REGULAR T-8 ENERGY SAVING FLUORESCENT TUBES, 220 VOLT  
WITH ALUMINUM REFLECTOR LOUVERS, RECESSED MOUNTED TYPE
- TWO GANG SWITCH
- SWITCH BOX
- ROOM RECESSED CEILING 8" EXHAUST FAN  
33 WATT, 220 VOLT, 60 HZ



LIGHTING & VENTILATION LAYOUT PLAN  
SCALE 1 : 100

 PHILIPPINE PORTS AUTHORITY  PORT MANAGEMENT OFFICE - MARQUEZ	PROJECT/LOCATION:  <b>REPAIR OF DAMAGED PORT FACILITIES</b>  PORT OF POLILLO	PREPARED BY:   MARK ANDREW S. PIÑEDA SENIOR ENGINEER A	REVIEWED/RECOMMENDING APPROVAL:   RAUL A. LIBATIQUE ACTING ESD MANAGER	APPROVED:   FRANCISQUEL O. MANCILE PORT MANAGER	SHEET CONTENTS  ● LIGHTING AND VENTILATION LAYOUT PLAN	SHEET NO.  14/20

- DUPLEX CONVENIENCE OUTLET
- 3-TON AIRCONDITIONING UNIT OUTLET (SPLIT TYPE) WALL MOUNTED TYPE
- TELEPHONE OUTLET
- TELEVISION OUTLET
- MAIN PANEL BOARD



ON 65 MM Ø RIGID CONDUIT PIPE  
2-100MM SQ THW & 1-14MM SQ  
230 V, SINGLE PHASE, 60 HTZ, 3-WIRES;  
SERVICE ENTRANCE

POWER LAYOUT PLAN  
SCALE 1 : 100

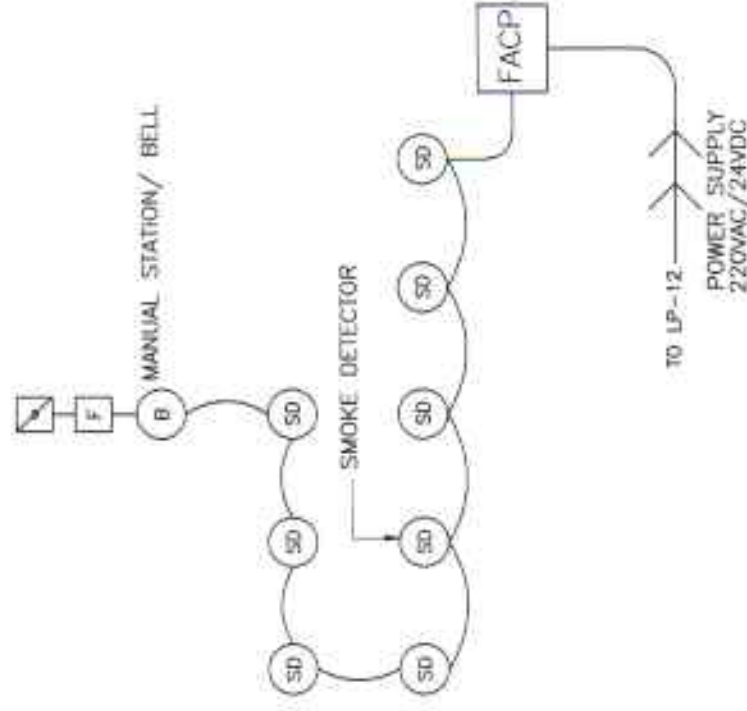
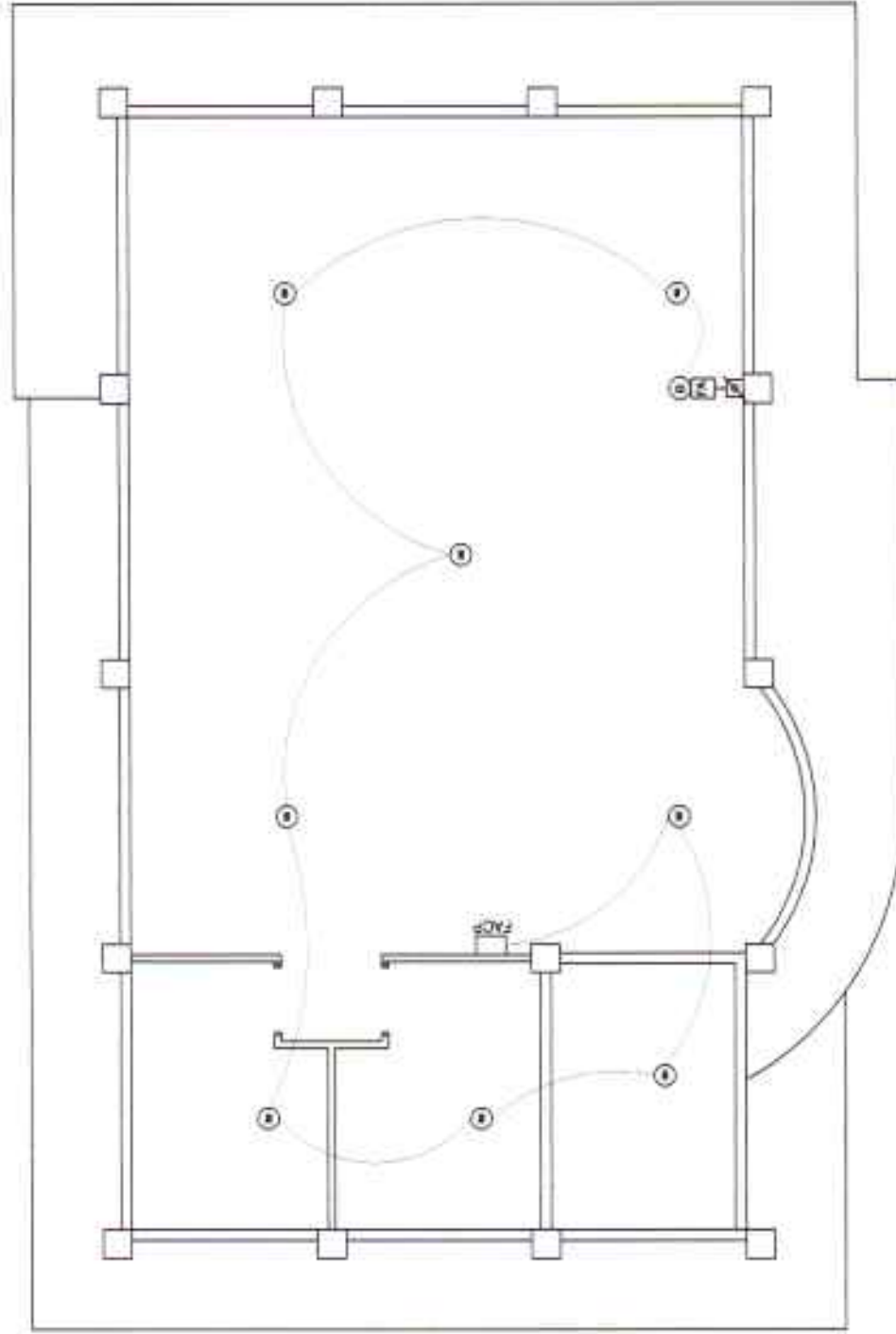
<p>PHILIPPINE PORTS AUTHORITY PORT MANAGEMENT OFFICE - MARQUEZ</p>	<p>PROJECT/LOCATION: <b>REPAIR OF DAMAGED PORT FACILITIES</b> PORT OF POLILLO</p>	<p>PREPARED BY:  MARK ANDREW S. PINEDA SENIOR ENGINEER A</p>	<p>REVIEWED/RECOMMENDING APPROVAL:  PAUL A. LIBATIQUE ACTING ESD MANAGER</p>	<p>APPROVED:  FRANCISQUIEL O. MANCILE PORT MANAGER</p>	<p>SHEET CONTENTS ● POWER LAYOUT PLAN</p>	<p>SHEET NO. <b>15/20</b></p>
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NOTES ON FDAS:

THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE WITH CLASS "A" WIRING MICROPROCESSOR BASED.  
THE COMPLETE FIRE ALARM SYSTEM SHALL BE FURNISHED/ INSTALLED BY ACCREDITED AND APPROVED SUPPLIER INCLUSIVE OF WIRING/EQUIPMENT. MINIMUM SIZE OF CONDUIT TO BE USED SHALL BE 20mmØ AND THE MINIMUM SIZE OF WIRE TO BE USED SHALL BE 1.25mm TWISTED SHIELDED PAIR. FIRE ALARM CONTROL PANEL SHALL BE AS MANUFACTURED BY "SIMPLEX" MODEL TRUE ALARM.  
SMOKE DETECTOR SHALL BE PHOTOELECTRIC TYPE.



FIRE DETECTION ALARM SYSTEM LAYOUT PLAN

SCALE 1 : 100



PORT MANAGEMENT OFFICE - MARQUEZ

PROJECT/LOCATION:

REPAIR OF DAMAGED  
PORT FACILITIES  
PORT OF POLILLO

PREPARED BY:

MARK ANDREW S. PINEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

RAUL A. LIBATIQUE  
ACTING ESD MANAGER

APPROVED:

FRANCISQUEL O. MANCILE  
PORT MANAGER

SHEET CONTENTS

- FIRE DETECTION ALARM SYSTEM LAYOUT PLAN

SHEET NO.

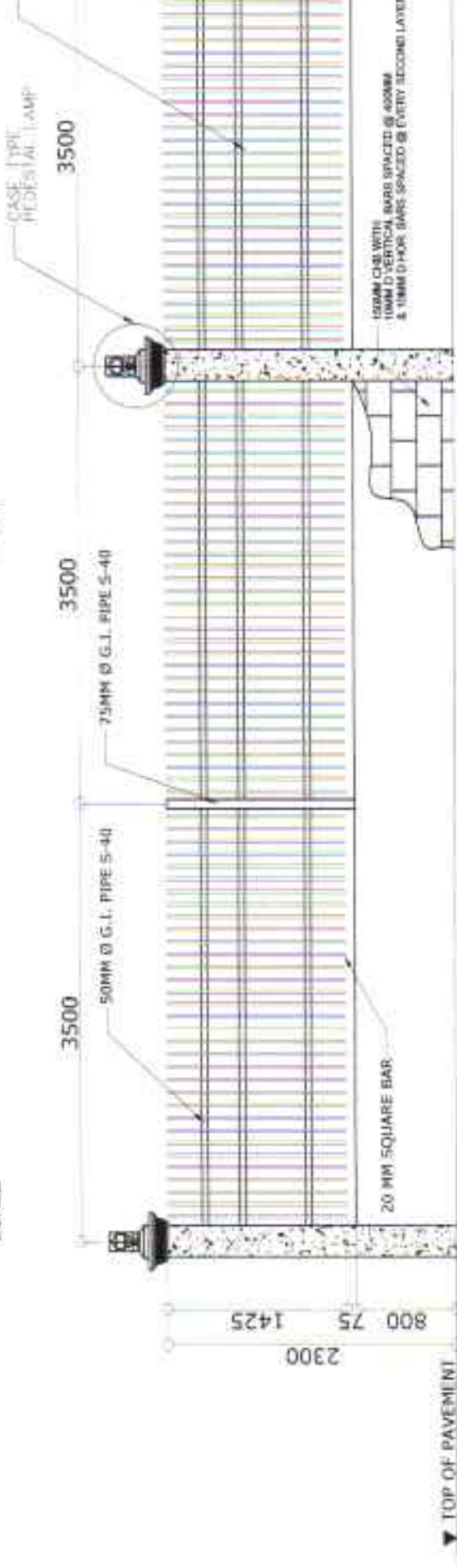
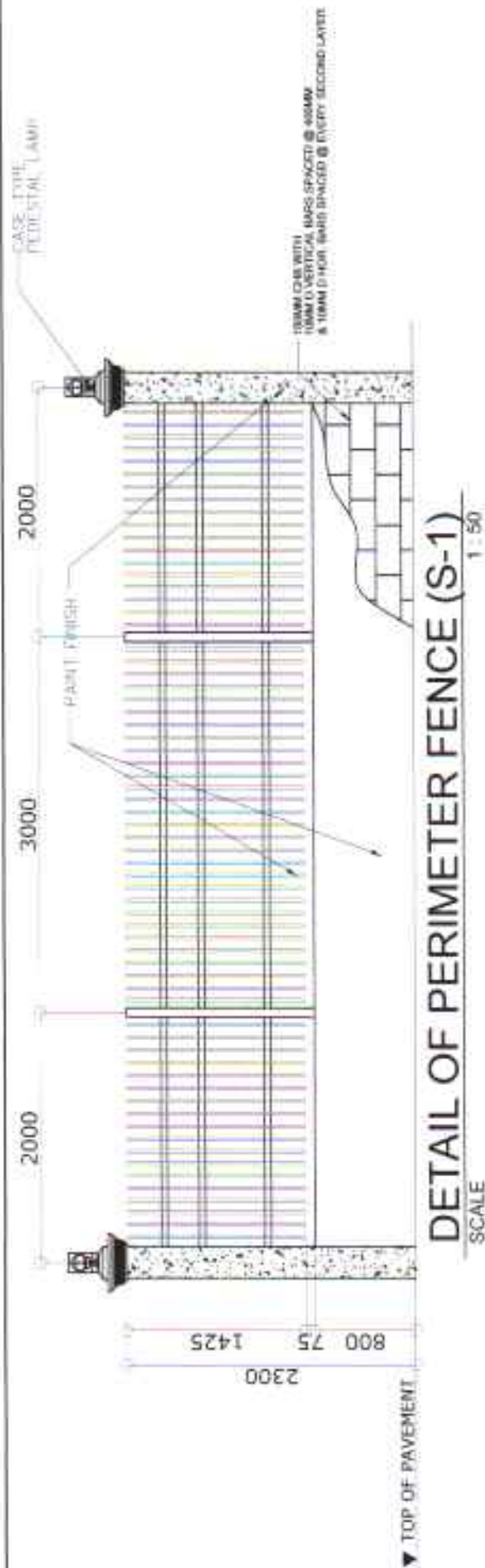
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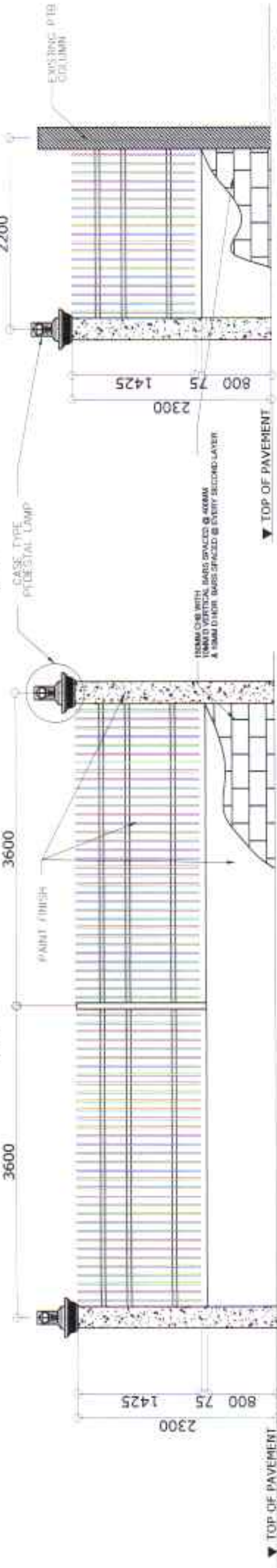
NOTE:

$F_c' = 24 \text{ MPa}$  (3,500 psi)  
 $F_y = 276 \text{ MPa}$  (40,000 psi)



DETAIL OF PERIMETER FENCE (S-2)

SCALE 1:50



DETAIL OF PERIMETER FENCE (S-3)

SCALE 1:50

DETAIL OF PERIMETER FENCE (S-4)

SCALE 1:50



PHILIPPINE  
PORTS  
AUTHORITY

PORT MANAGEMENT OFFICE - MARQUEZ

REPAIR OF DAMAGED  
PORT FACILITIES

PORT OF POLILLO

PREPARED BY:

MARK ANDREW S. PIÑEDA  
SENIOR ENGINEER A

REVIEWED/RECOMMENDING APPROVAL:

RAUL A. LIBATIQUE  
ACTING ESD MANAGER

APPROVED:

FRANCISQUEL O. MANCILE  
PORT MANAGER

SHEET CONTENTS

- DETAIL OF PERIMETER FENCE (S-1)
- DETAIL OF PERIMETER FENCE (S-2)
- DETAIL OF PERIMETER FENCE (S-3)
- DETAIL OF PERIMETER FENCE (S-4)

SHEET NO.

18/20







