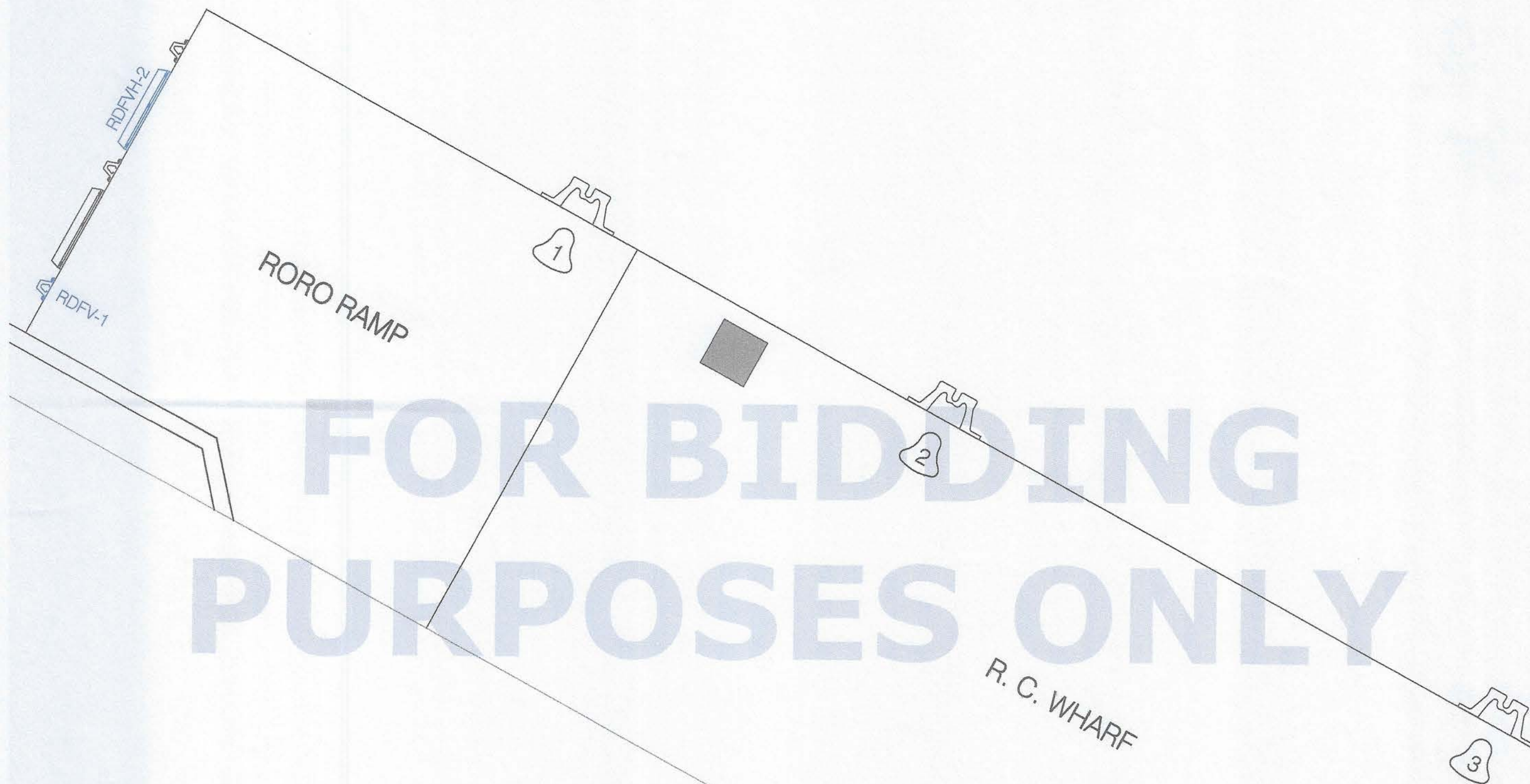
 <p>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</p>	TITLE: <b>REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10</b>				CIVIL WORKS	<p>SHEET NO.</p> <p><b>1</b></p> <p><b>9</b></p>
	LOCATION: <b>PORT OF CAGAYAN DE ORO</b>				SHEET CONTENTS	
	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDED BY:	APPROVED:	LOCATION OF RUBBER DOCK FENDERS	
	<p><i>ORIGINAL SIGNED</i> KAREL T. SUMICAD Engineering Assistant A</p>	<p><i>ORIGINAL SIGNED</i> LEXTER-LOU V. SEVILLA Supervising Engineer A</p>	<p><i>ORIGINAL SIGNED</i> CLARO SAMUEL P. FONTANILLA ESD Manager</p>	<p><i>ORIGINAL SIGNED</i> ISIDRO V. BUTASLAC, JR. Port Manager</p>		






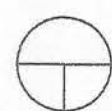
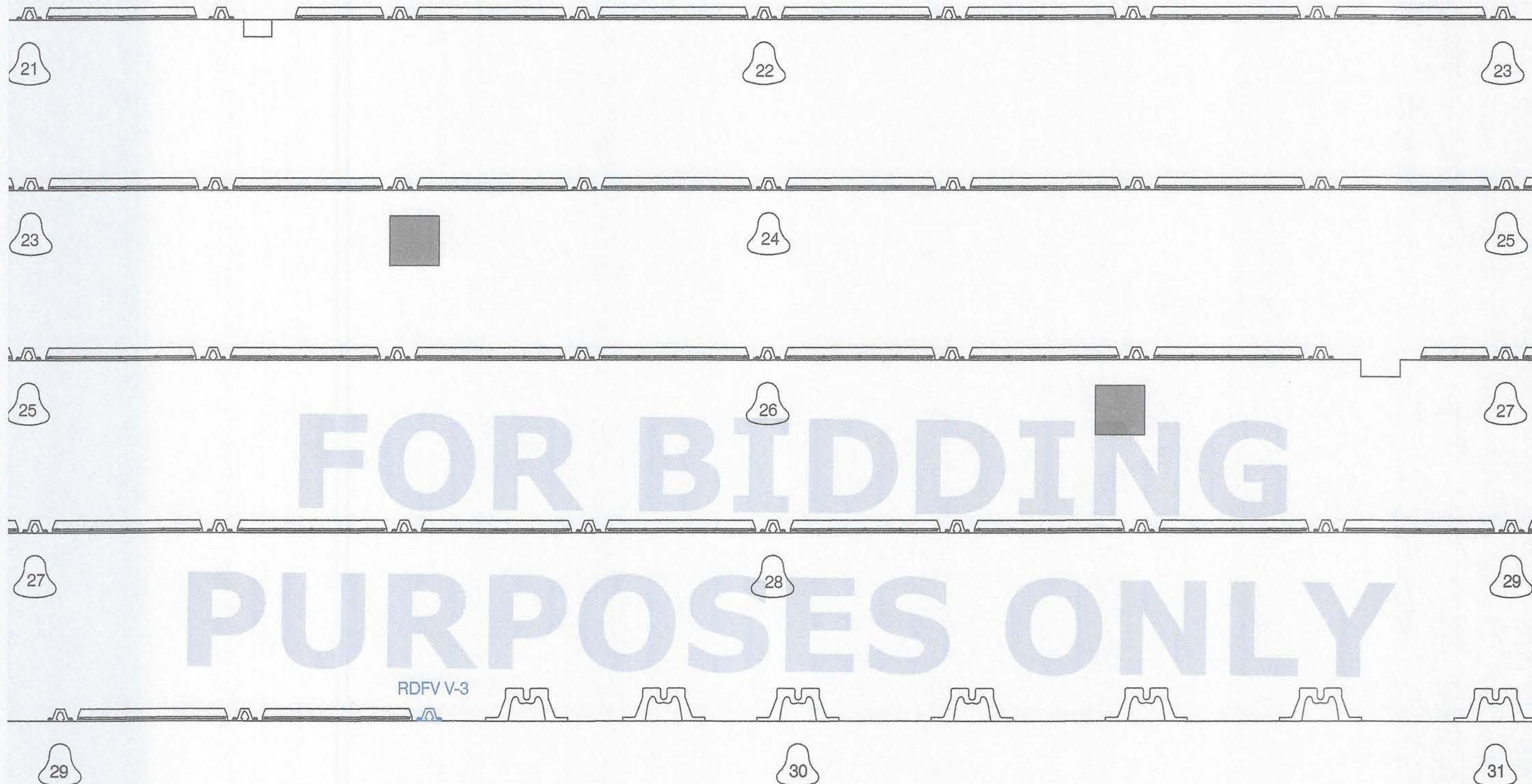
V-TYPE RUBBER DOCK FENDER @ RORO RAMP

SCALE:

1:100

<div><p>PHILIPPINE PORTS AUTHORITY</p></div> <div>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</div>	TITLE:		REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS	<div>SHEET NO.</div> <div>2 9</div>
	LOCATION:		PORT OF CAGAYAN DE ORO				SHEET CONTENTS	
	PREPARED BY:		CHECKED & SUBMITTED BY:	RECOMMENDED BY:	APPROVED:		V-TYPE RUBBER DOCK FENDER @ RORO RAMP	
	ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A	ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager	ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager			






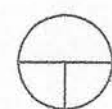
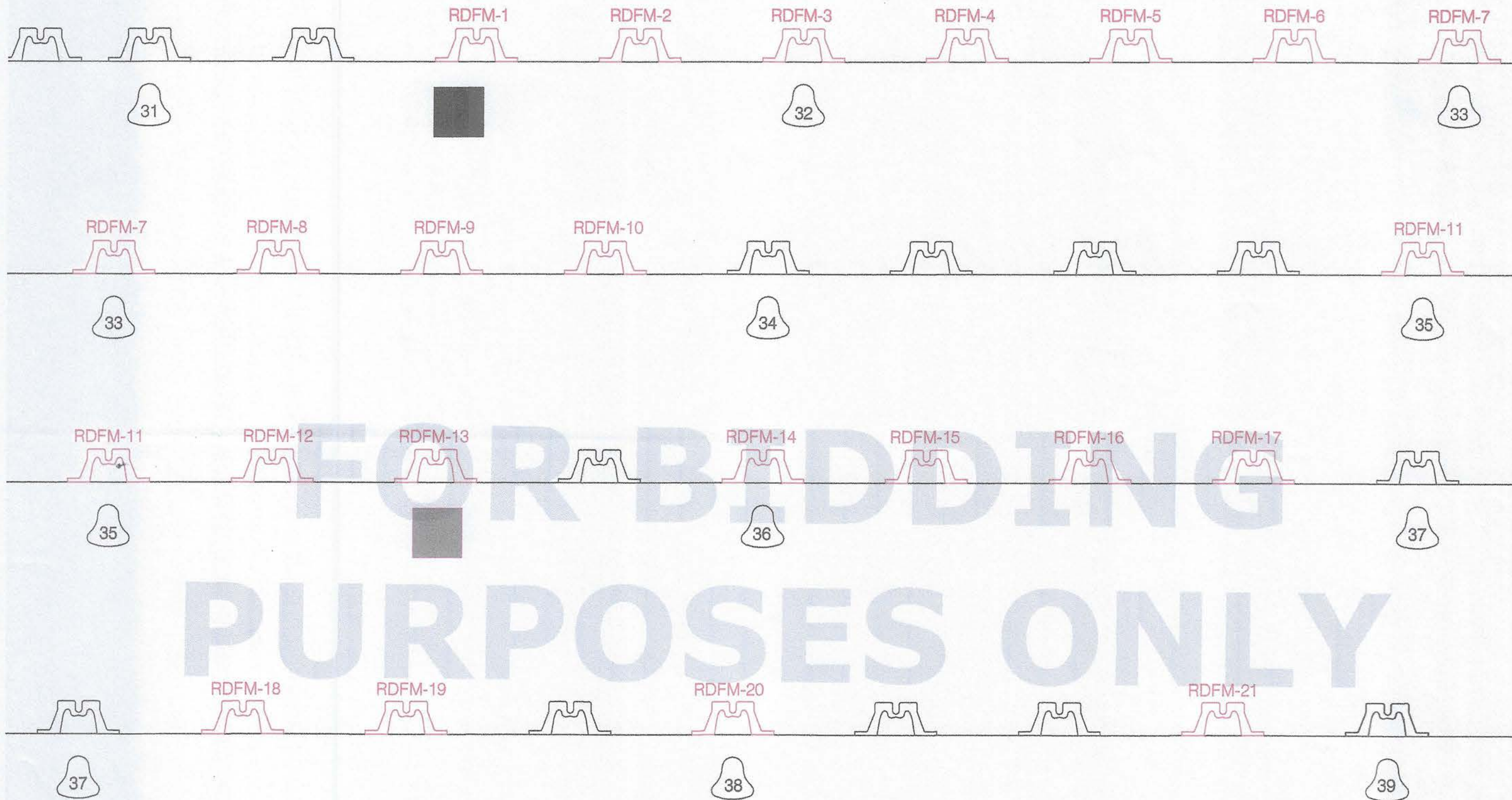
V -TYPE RUBBER DOCK FENDER BETWEEN BOLLARD 29 TO 30

SCALE:

1:100

<div><p>PHILIPPINE PORTS AUTHORITY</p></div> <div>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</div>	TITLE:		REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS		SHEET NO. <div>3 9</div>		
	LOCATION:		PORT OF CAGAYAN DE ORO							SHEET CONTENTS	
	PREPARED BY:		CHECKED & SUBMITTED BY:		RECOMMENDED BY:		APPROVED:			V-TYPE RUBBER DOCK FENDER BETWEEN BOLLARD 29 TO 30	
	ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A		ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager		ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager				






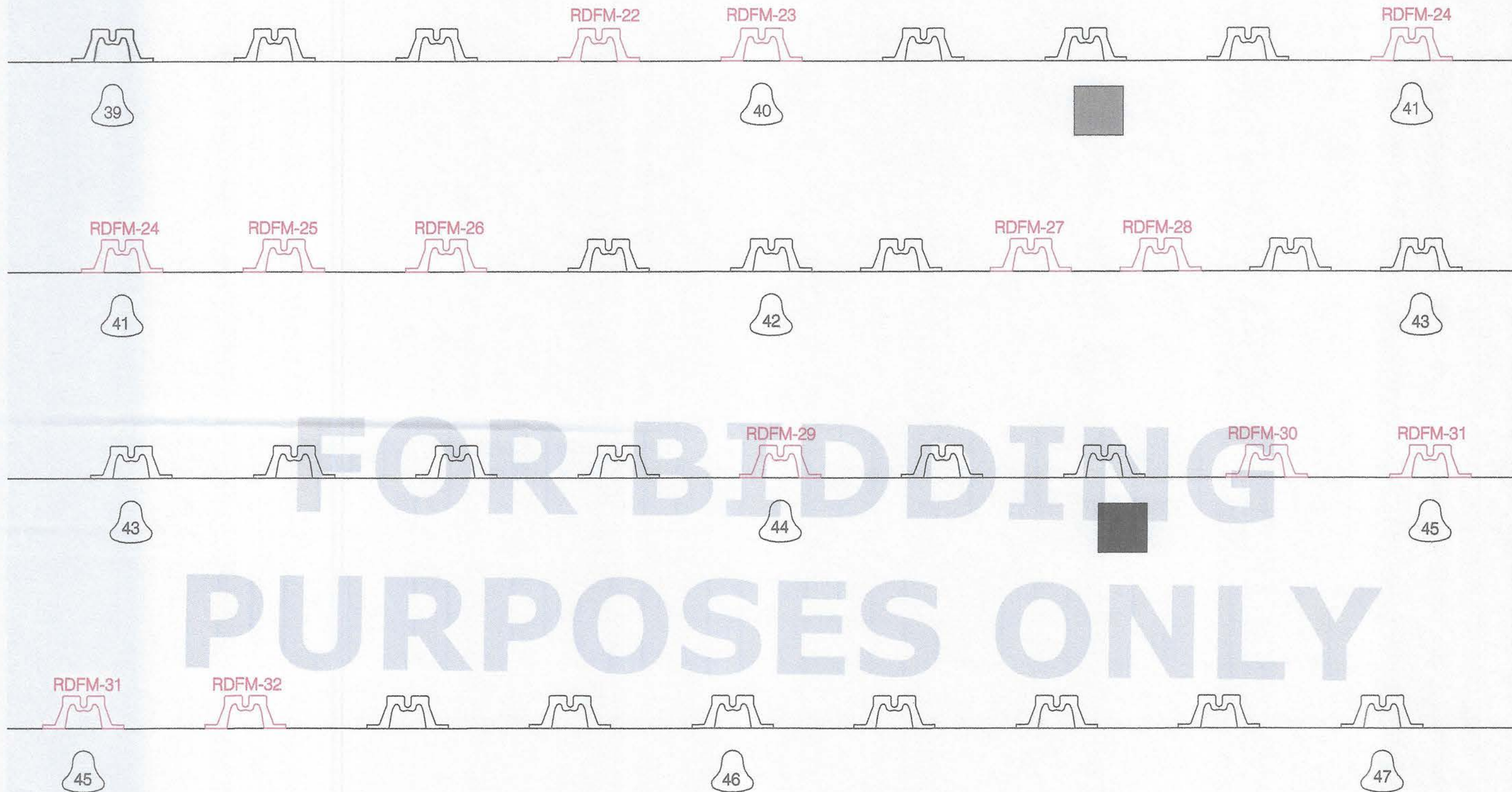
M-TYPE RUBBER FENDER BETWEEN BOLLARD 31 TO 39

SCALE:

1:100

<div><p>PHILIPPINE PORTS AUTHORITY</p></div> <div><p>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</p></div>	TITLE:	REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS	SHEET NO.
	LOCATION:	PORT OF CAGAYAN DE ORO				SHEET CONTENTS	<div><div>4</div><div>9</div></div>
	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDED BY:	APPROVED:	M-TYPE RUBBER FENDER BETWEEN BOLLARD 31 TO 39		
	ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A	ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A	ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager	ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager			





M-TYPE RUBBER FENDER BETWEEN BOLLARD 39 TO 47

SCALE:

1:100



PORT OF  
CAGAYAN DE ORO  
MISAMIS ORIENTAL

TITLE:		REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS	SHEET NO. <div>5 9</div>
LOCATION:		PORT OF CAGAYAN DE ORO				SHEET CONTENTS	
PREPARED BY:		CHECKED & SUBMITTED BY:	RECOMMENDED BY:	APPROVED:		M-TYPE RUBBER FENDER BETWEEN BO9LLARD 39 TO 47	
ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A	ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager	ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager			



### RUBBER DOCK FENDER M-TYPE

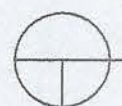
MARK	TYPE OF FENDER	SIZE	FENDER ORIENTATION
RDFM-1	M-TYPE	600H X 1500L	VERTICAL
RDFM-2	M-TYPE	600H X 1500L	VERTICAL
RDFM-3	M-TYPE	600H X 1500L	VERTICAL
RDFM-4	M-TYPE	600H X 1500L	VERTICAL
RDFM-5	M-TYPE	600H X 1500L	VERTICAL
RDFM-6	M-TYPE	600H X 1500L	VERTICAL
RDFM-7	M-TYPE	600H X 1500L	VERTICAL
RDFM-8	M-TYPE	600H X 1500L	VERTICAL
RDFM-9	M-TYPE	600H X 1500L	VERTICAL
RDFM-10	M-TYPE	600H X 1500L	VERTICAL
RDFM-11	M-TYPE	600H X 1500L	VERTICAL
RDFM-12	M-TYPE	600H X 1500L	VERTICAL
RDFM-13	M-TYPE	600H X 1500L	VERTICAL
RDFM-14	M-TYPE	600H X 1500L	VERTICAL
RDFM-15	M-TYPE	600H X 1500L	VERTICAL
RDFM-16	M-TYPE	600H X 1500L	VERTICAL
RDFM-17	M-TYPE	600H X 1500L	VERTICAL
RDFM-18	M-TYPE	600H X 1500L	VERTICAL
RDFM-19	M-TYPE	600H X 1500L	VERTICAL
RDFM-20	M-TYPE	600H X 1500L	VERTICAL
RDFM-21	M-TYPE	600H X 1500L	VERTICAL
RDFM-22	M-TYPE	600H X 1500L	VERTICAL
RDFM-23	M-TYPE	600H X 1500L	VERTICAL

### RUBBER DOCK FENDER M-TYPE

MARK	TYPE OF FENDER	SIZE	FENDER ORIENTATION
RDFM-24	M-TYPE	600H X 1500L	VERTICAL
RDFM-25	M-TYPE	600H X 1500L	VERTICAL
RDFM-26	M-TYPE	600H X 1500L	VERTICAL
RDFM-27	M-TYPE	600H X 1500L	VERTICAL
RDFM-28	M-TYPE	600H X 1500L	VERTICAL
RDFM-29	M-TYPE	600H X 1500L	VERTICAL
RDFM-30	M-TYPE	600H X 1500L	VERTICAL
RDFM-31	M-TYPE	600H X 1500L	VERTICAL
RDFM-32	M-TYPE	600H X 1500L	VERTICAL

### RUBBER DOCK FENDER V-TYPE

MARK	TYPE OF FENDER	SIZE	FENDER ORIENTATION
RDFV V-1	V-TYPE	500H X 1500L	VERTICAL
RDFV H-2	V-TYPE	500H X 2000L	HORIZONTAL
RDFV V-3	V-TYPE	500H X 2000L	VERTICAL



### LOCATION OF M-TYPE RUBBER FENDER

SCALE:

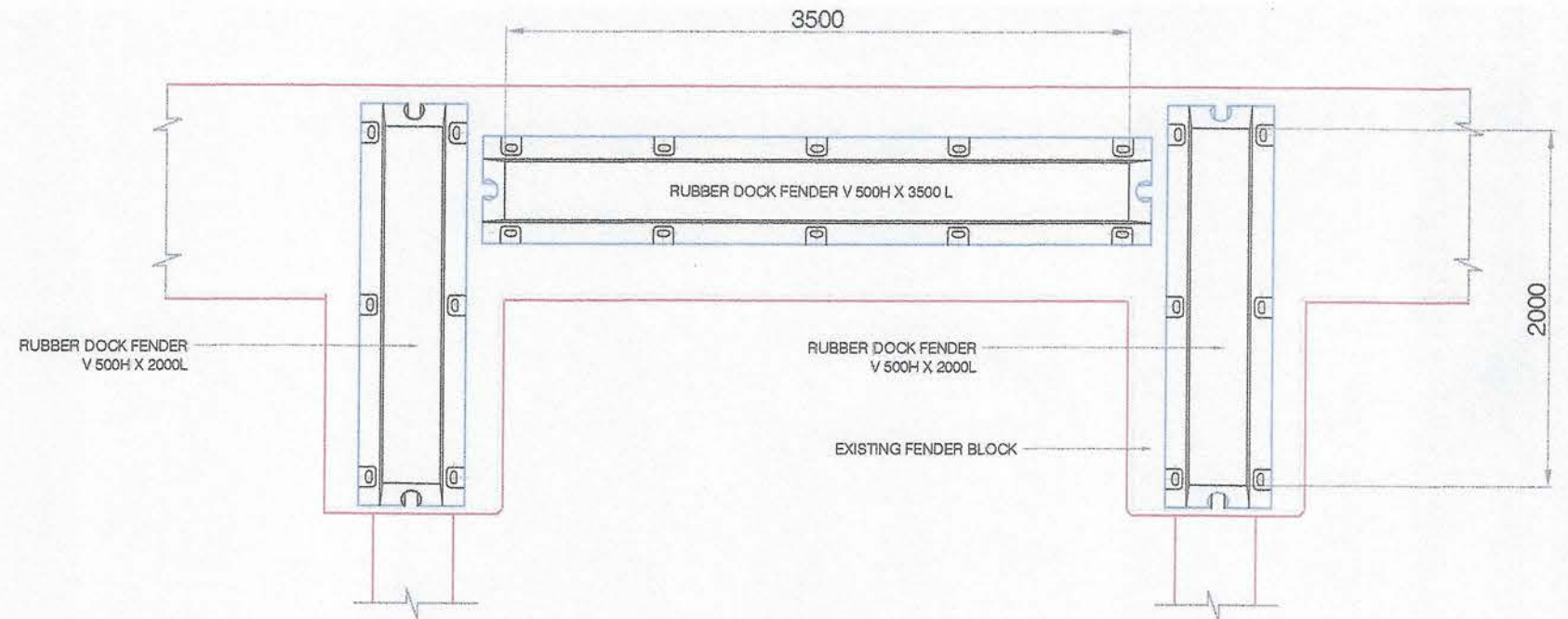
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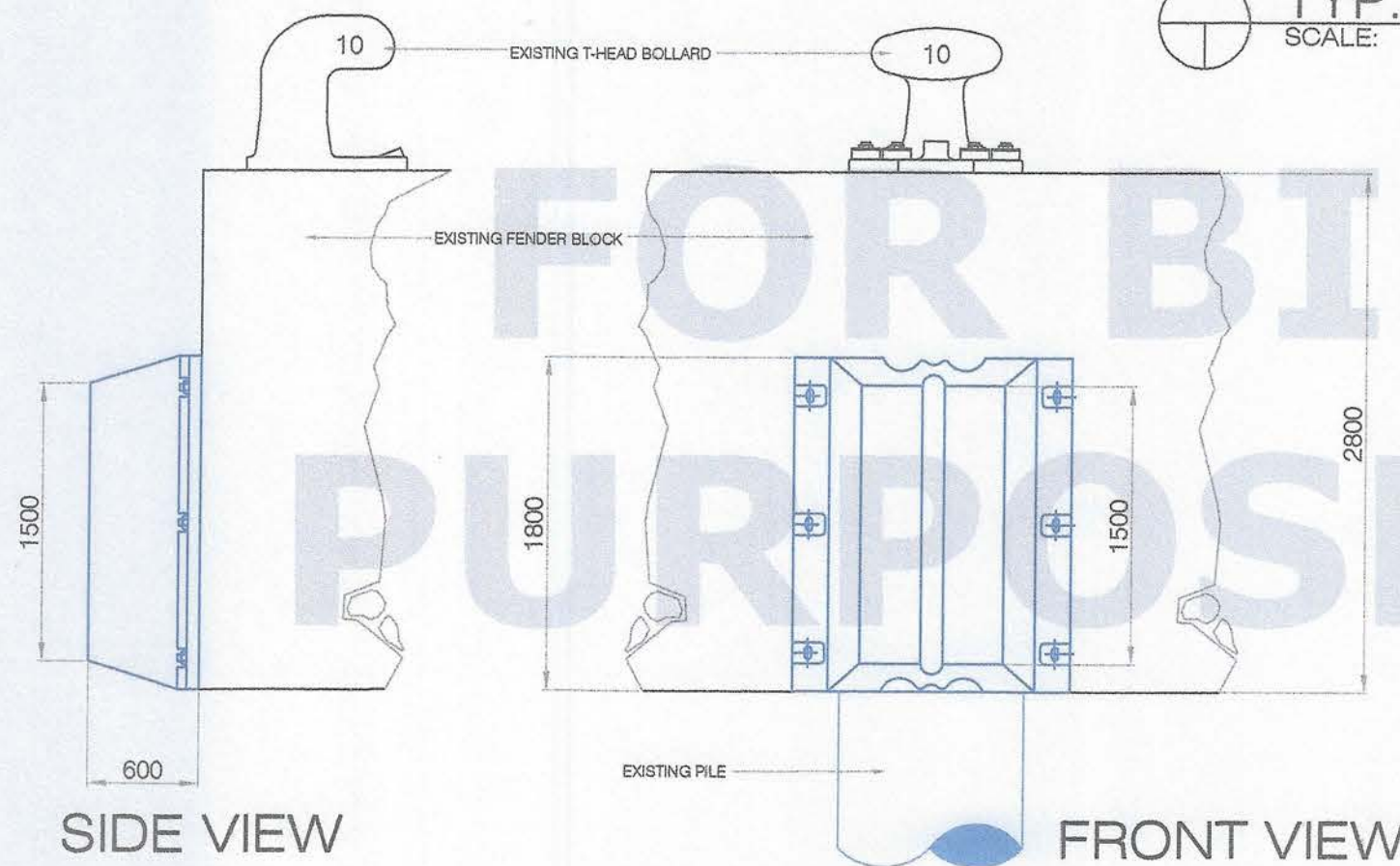
PORT OF  
CAGAYAN DE ORO  
MISAMIS ORIENTAL

TITLE:		<b>REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10</b>				CIVIL WORKS	SHEET NO. <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">6 9</div>
LOCATION:		PORT OF CAGAYAN DE ORO				SHEET CONTENTS	
PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDED BY:	APPROVED:	LOCATION OF M-TYPE RUBBER FENDER			
<i>ORIGINAL SIGNED</i> KAREL T. SUMICAD Engineering Assistant A	<i>ORIGINAL SIGNED</i> LEXTER-LOU V. SEVILLA Supervising Engineer A	<i>ORIGINAL SIGNED</i> CLARO SAMUEL P. FONTANILLA ESD Manager	<i>ORIGINAL SIGNED</i> ISIDRO V. BUTASLAC, JR. Port Manager				

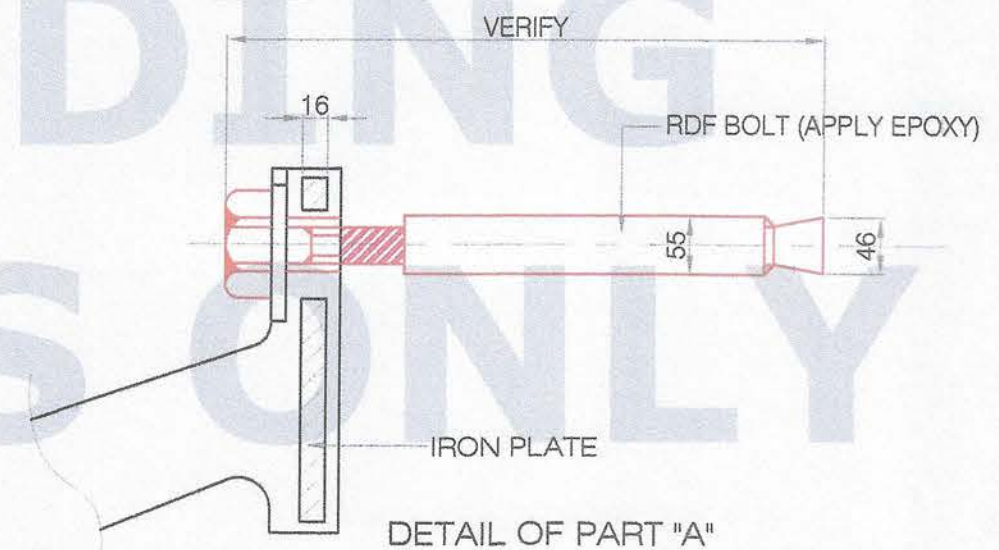





TYP. ELEV. OF V-TYPE RUBBER DOCK FENDER  
SCALE: 1:40



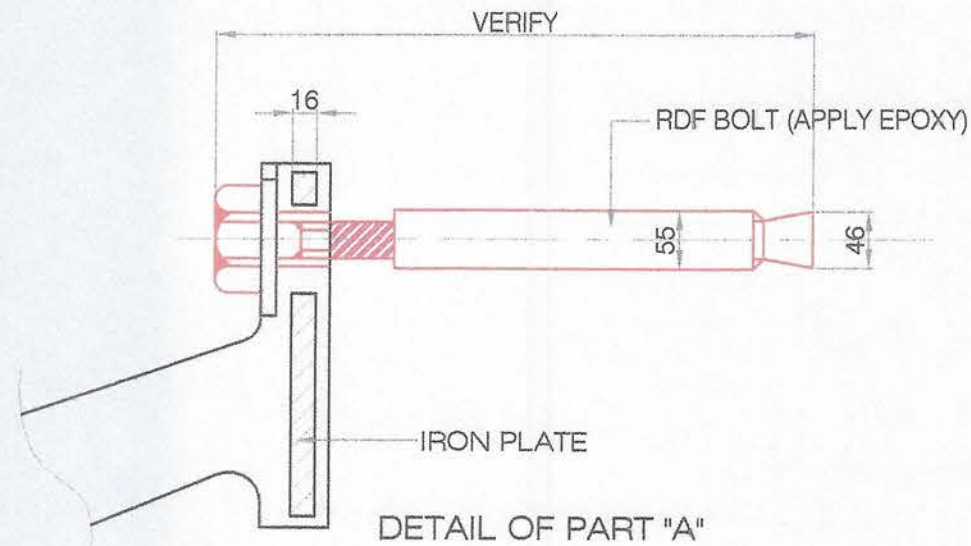
ELEVATION OF M-TYPE RUBBER DOCK FENDER  
SCALE: 1:40



TYPICAL DETAIL OF PART "A"  
SCALE: NDTs

<div><p>PHILIPPINE PORTS AUTHORITY</p></div> <div>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</div>	TITLE:		REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS	<div>SHEET NO.</div> <div><div>7</div><div>9</div></div>	
	LOCATION:		PORT OF CAGAYAN DE ORO				SHEET CONTENTS		
	PREPARED BY:		CHECKED & SUBMITTED BY:		RECOMMENDED BY:		APPROVED:		DETAIL OF M-TYPE RUBBER DOCK FENDER (600H X 1500L)
	ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A		ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager		ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager		

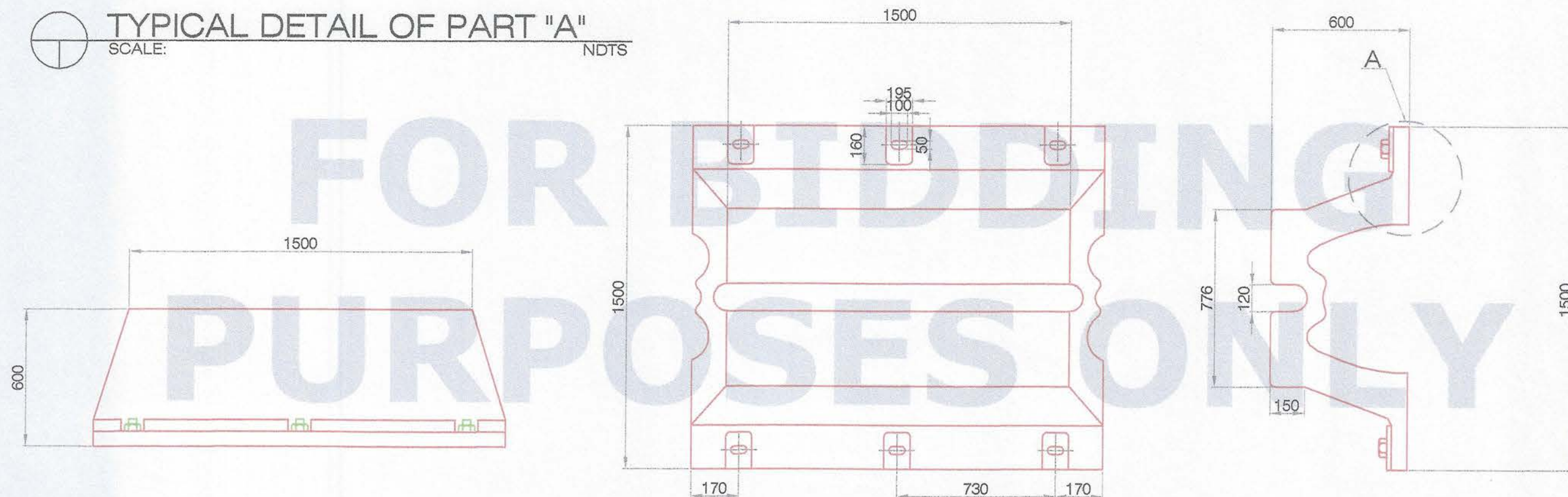





#### ANCHOR BOLT SPECIFICATION

No.	PARTS	MATERIALS	REMARKS
1	BOLT	ROLLED STEEL	GALVANIZED
2	WASHER	ROLLED STEEL	GALVANIZED
3	SLEEVE	STAINLESS STEEL	GALVANIZED
4	TAPER PIN	ROLLED STEEL	GALVANIZED

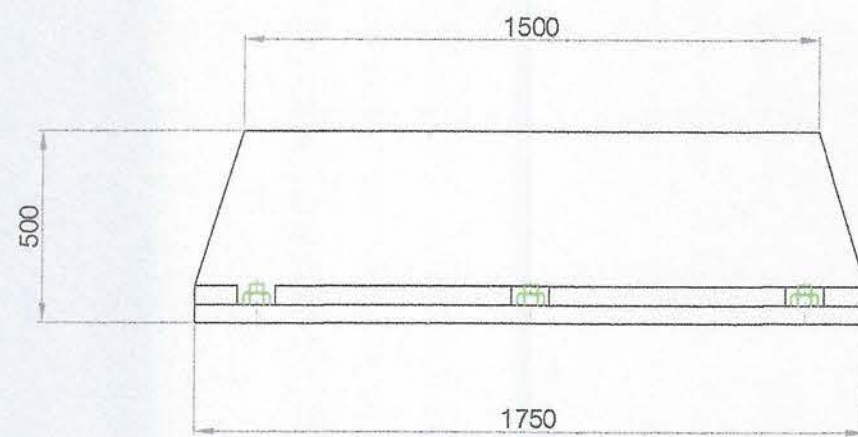
TYPICAL DETAIL OF PART "A"  
SCALE: NDTs



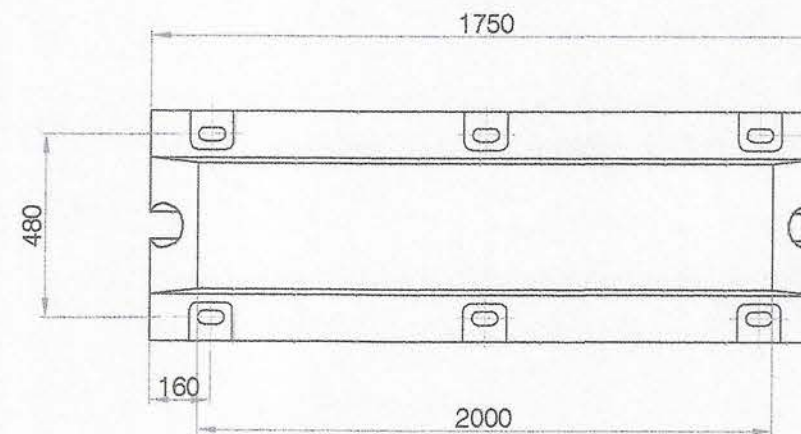
DETAIL OF M-TYPE RUBBER DOCK FENDER (600H X 1500L)  
SCALE: 1:20

 <p>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</p>	<b>TITLE: REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10</b>				<b>CIVIL WORKS</b>		<b>SHEET NO.</b> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">8</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">9</div> </div>	
	<b>LOCATION: PORT OF CAGAYAN DE ORO</b>				<b>SHEET CONTENTS</b>			
	<b>PREPARED BY:</b> ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		<b>CHECKED &amp; SUBMITTED BY:</b> ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A		<b>RECOMMENDED BY:</b> ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager		<b>APPROVED:</b> ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager	
							DETAIL OF M-TYPE RUBBER DOCK FENDER (600H X 1500L)	

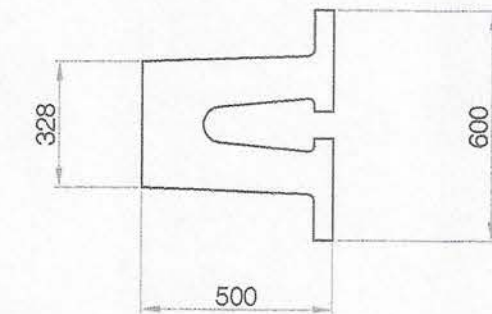




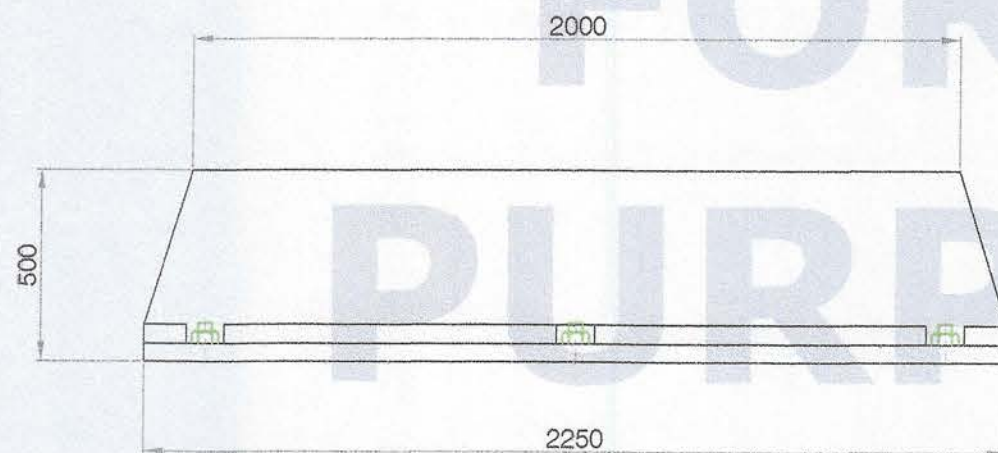
ELEVATION



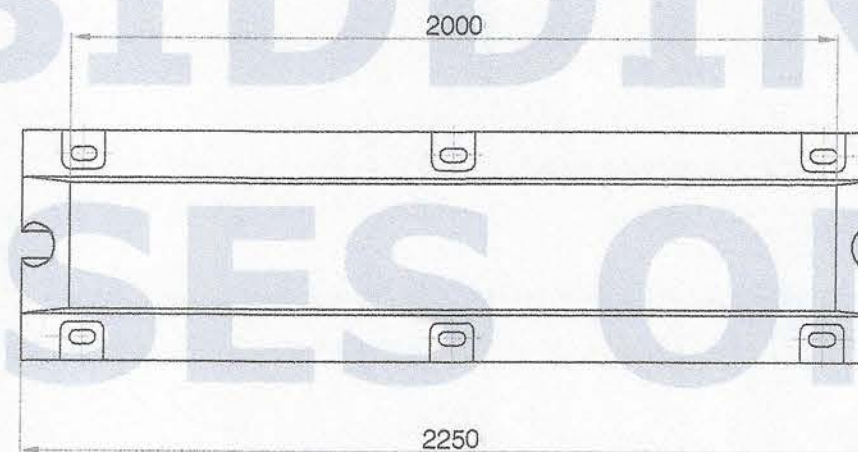
PLAN



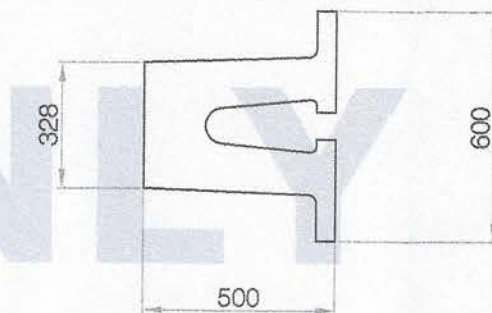
SECTION



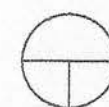
ELEVATION



PLAN




SECTION



DETAIL OF V-TYPE RUBBER FENDER

SCALE:

1:30

<div><p>PHILIPPINE PORTS AUTHORITY</p></div> <div>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</div>	TITLE:		REPLACEMENT OF DILAPIDATED V-TYPE AND M-TYPE RUBBER DOCK FENDERS ALONG BERTH 8 TO 10				CIVIL WORKS	SHEET NO. <div>9 9</div>	
	LOCATION:		PORT OF CAGAYAN DE ORO				SHEET CONTENTS		
	PREPARED BY:		CHECKED & SUBMITTED BY:		RECOMMENDED BY:		APPROVED:		DETAIL OF V-TYPE RUBBER DOCK FENDER
	ORIGINAL SIGNED KAREL T. SUMICAD Engineering Assistant A		ORIGINAL SIGNED LEXTER-LOU V. SEVILLA Supervising Engineer A		ORIGINAL SIGNED CLARO SAMUEL P. FONTANILLA ESD Manager		ORIGINAL SIGNED ISIDRO V. BUTASLAC, JR. Port Manager		