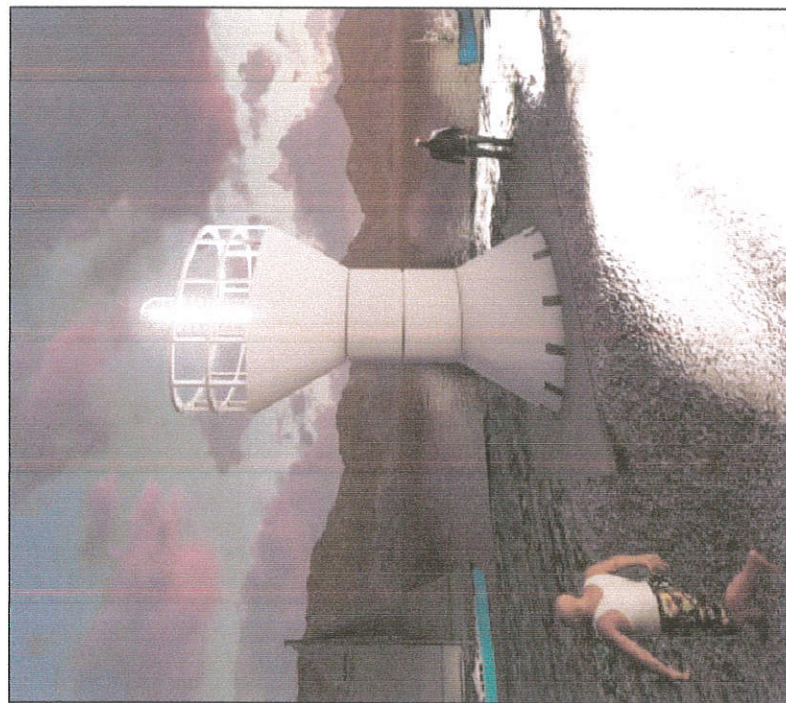




SITE DEVELOPMENT PLAN

PERSPECTIVE



PHILIPPINE COAST GUARD

HEADQUARTERS PHILIPPINE COAST GUARD
130 25TH ST. PORT AREA MANILA

COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE

PROJECT TITLE : CONSTRUCTION OF LIGHT-STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY

LOCATION: MABOIS / DITAREM ISLAND, ITBAYAT, BATANES

OWNER: PHILIPPINE COAST GUARD

APPROVED BY:

CG CAPT PRUDENCIO C MATRICIO, JR (SSC)
Commander, CGDCS

PREPARED BY

CG PO3 MARIO B. *[Signature]*
POIC CIVIL & STRUCTURAL BRANCH

RECOMMENDED BY

[Signature]
CG CDR PAA SARNET C GUNALLO
CGDCS
Deputy Commander, CGDCS

REVISION

DATE

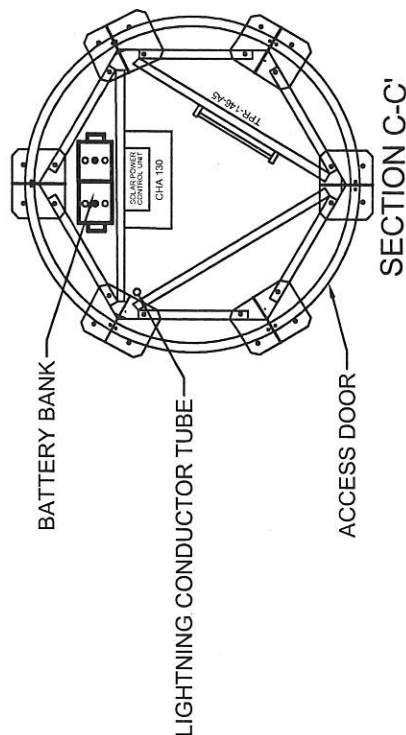
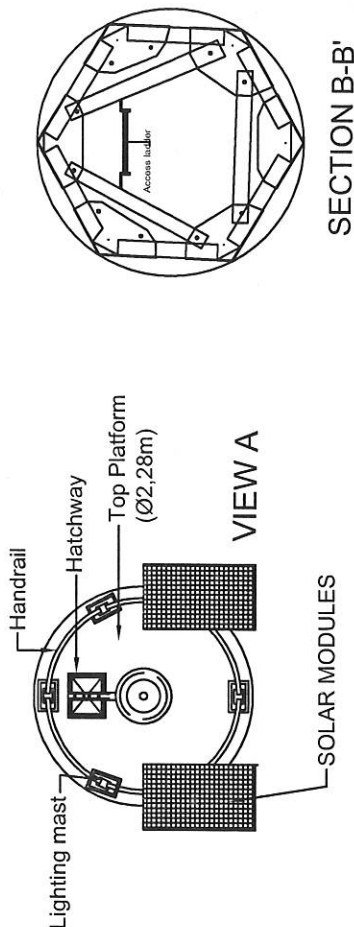
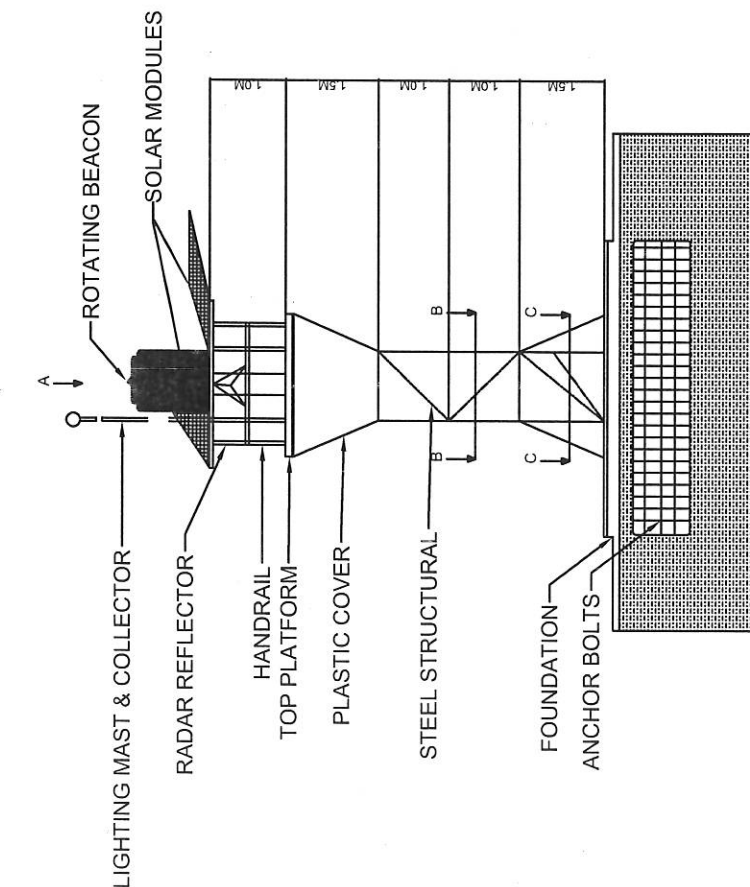
CHECKED BY:

[Signature]
CG CENS EDGARDO C. CORTEZ
Head, Project Performance and Evaluation

SHEET NO.

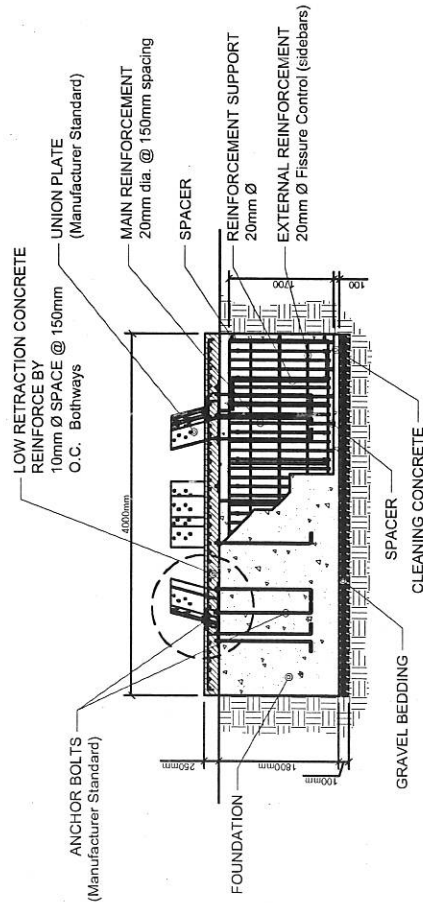
5 Meters LS

Height	5000mm
Base Diameter	2000mm
Tower Diameter	1200mm
Foundation Bolt PCD	1850mm
Number of Modules / Section	4

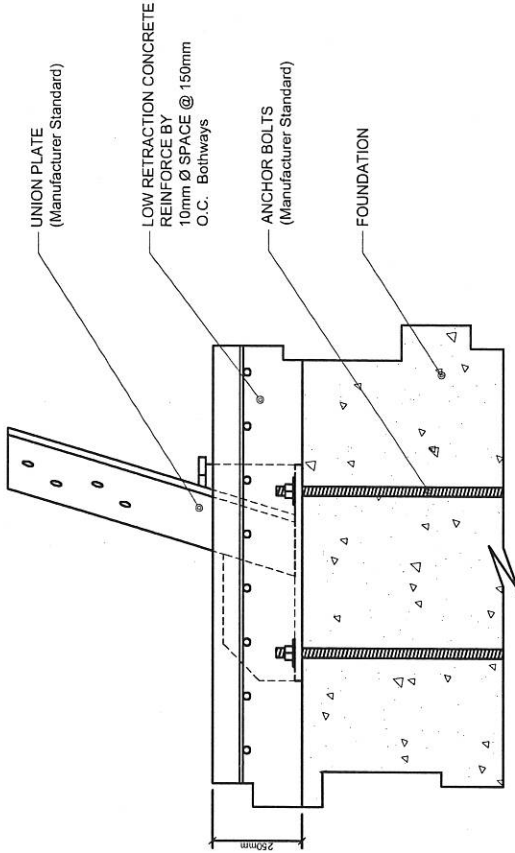


GENERAL DRAWING NTS

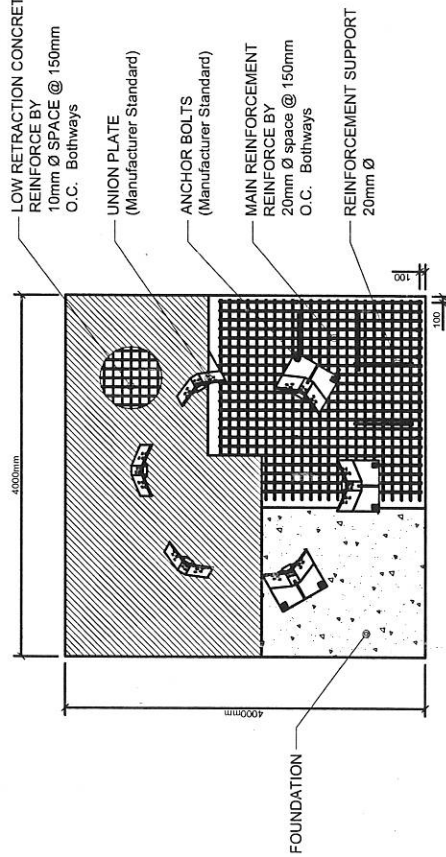
 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 158 25TH ST., PORT AREA MANILA	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITTAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERMOST ISLANDS OF THE COUNTRY LOCATION: MABUDIS / DITTAREM ISLAND, ITBAYAT, BATANES OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
	PREPARED BY CG PO James B. Lantao POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY CG CAPT RAY GARNER, GAWALLO Deputy Commander, COIDS	RECOMMENDED BY CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, COIDS	APPROVED BY
REVISION		DATE		



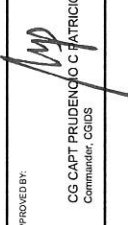
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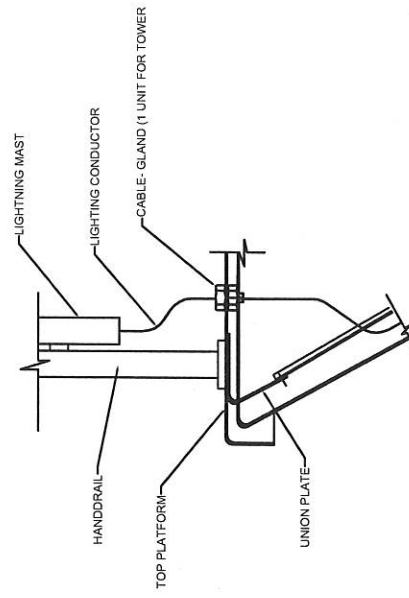
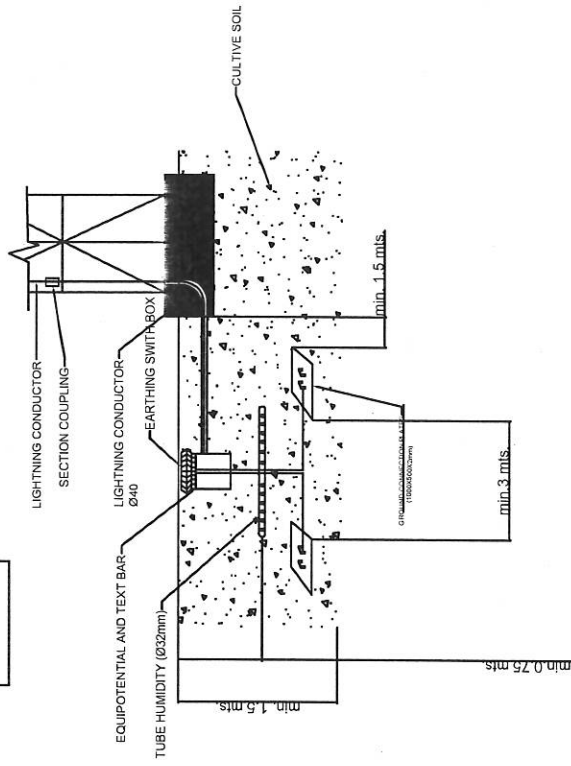


UNION PLATE CONNECTION DTL.

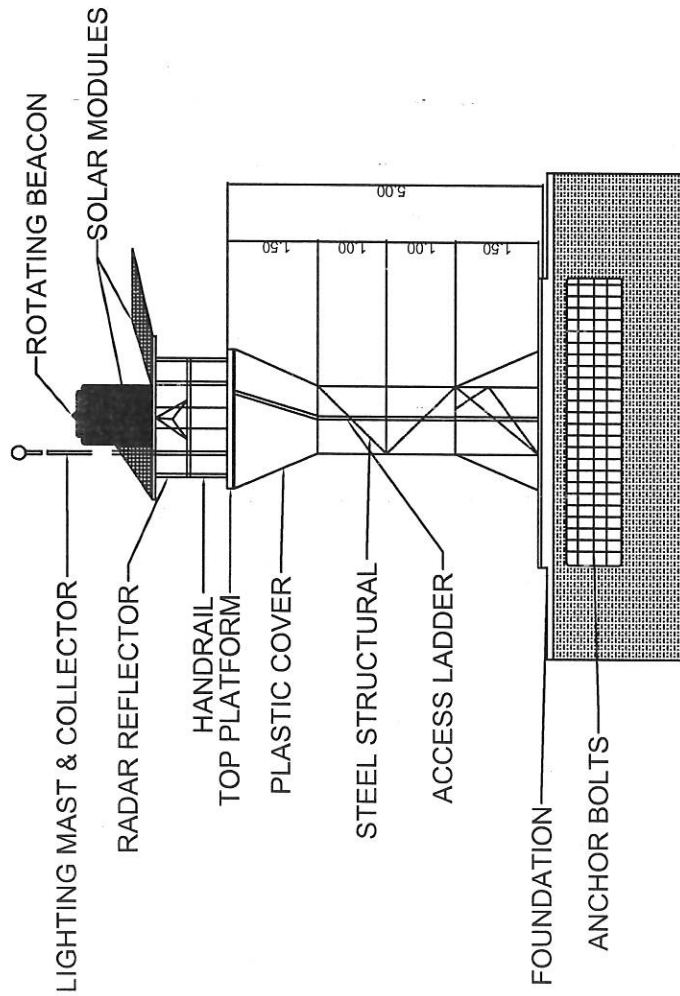


FOUNDATION DETAILS

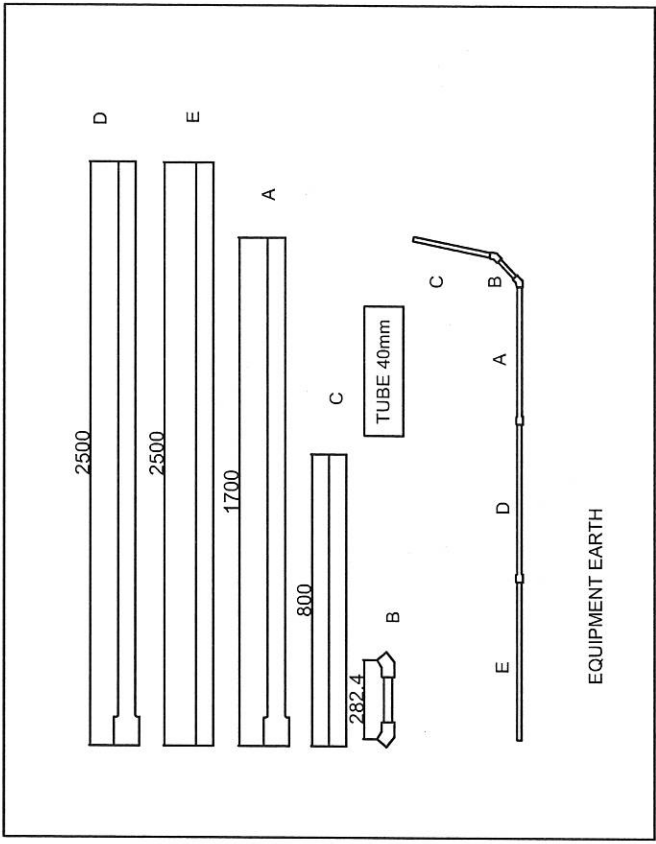
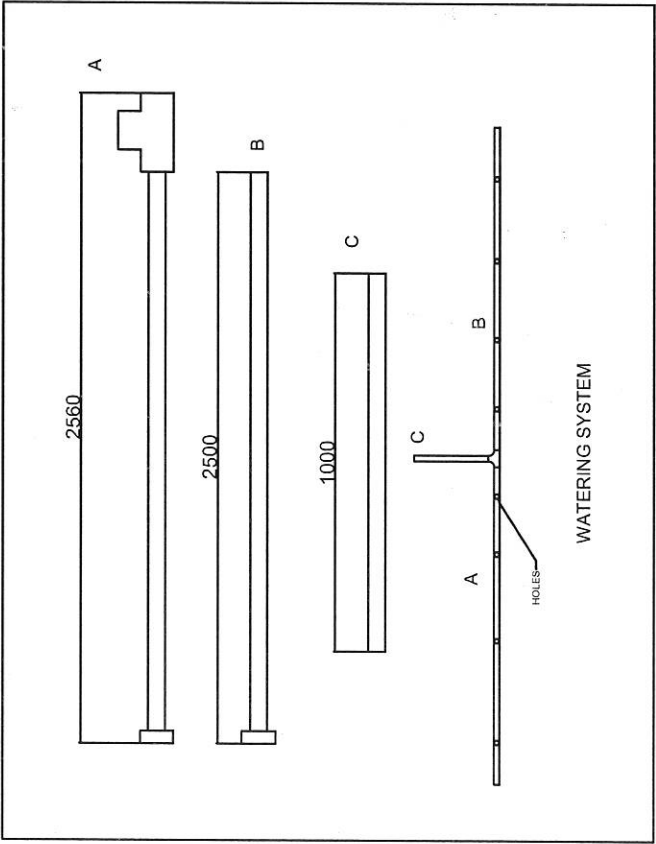
 PHILIPPINE COAST GUARD 138 SOUTH ST., PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: TATAYAN ISLAND, TUBATAY, BATAVES OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG PCG CIVIL ENGINEER POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY:  CG ENS RODRIGO J. CORTEZ Head, Project Performance and Evaluation		APPROVED BY:  CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	
REVISION DATE					



DETAIL "A"



 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 1880 DIVINIA DRIVE, CANTON, CALABARZON COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
	PREPARED BY CG P03 James B. Montoya POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY: <i>[Signature]</i> CG ENR GENARO L. LUTERO Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CDR RAYMUNDO CAMAMALLO Deputy Commander, CGDS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGDS
	REVISION	DATE		



PHILIPPINE COAST GUARD
 COAST GUARD INFRASTRUCTURE
 DEVELOPMENT SERVICE

PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY
 LOCATION : MARUDIS (DITAREM) ISLAND, ITBAVAT, BATANES
 OWNER : PHILIPPINE COAST GUARD

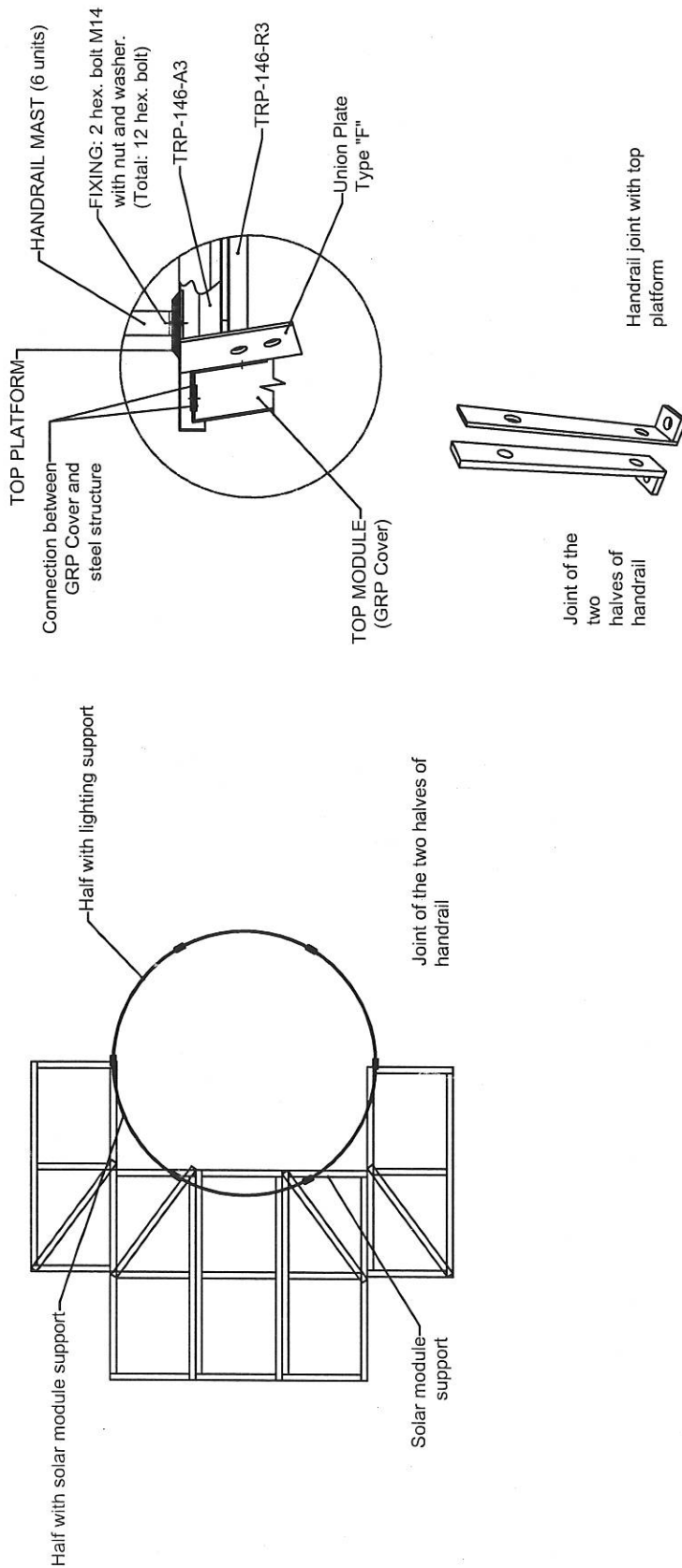
PREPARED BY : *[Signature]*
 CG FOR CIVIL & STRUCTURAL BRANCH
 POC CIVIL & STRUCTURAL BRANCH

CHECKED BY : *[Signature]*
 CG ENSIGNED OFFICER
 Head, Project Performance and Evaluation

RECOMMENDED BY : *[Signature]*
 CG CAPT RAY GARNET S. GAMALLO
 Deputy Commander, CGDS

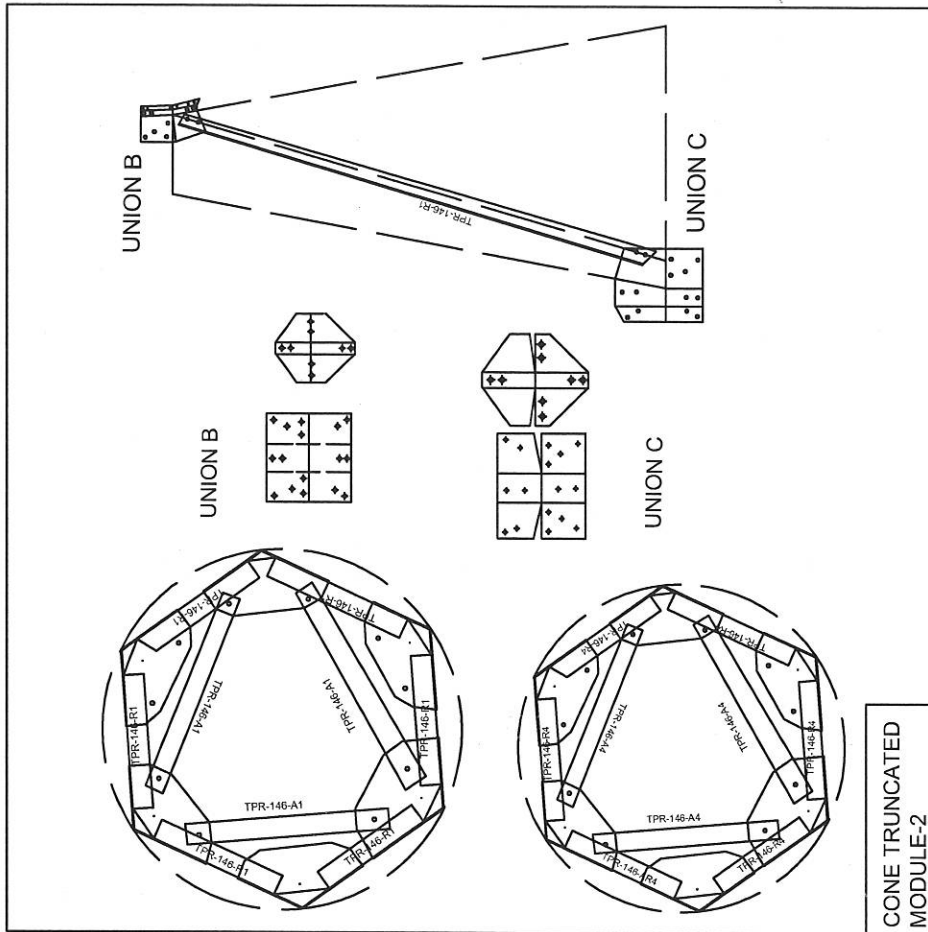
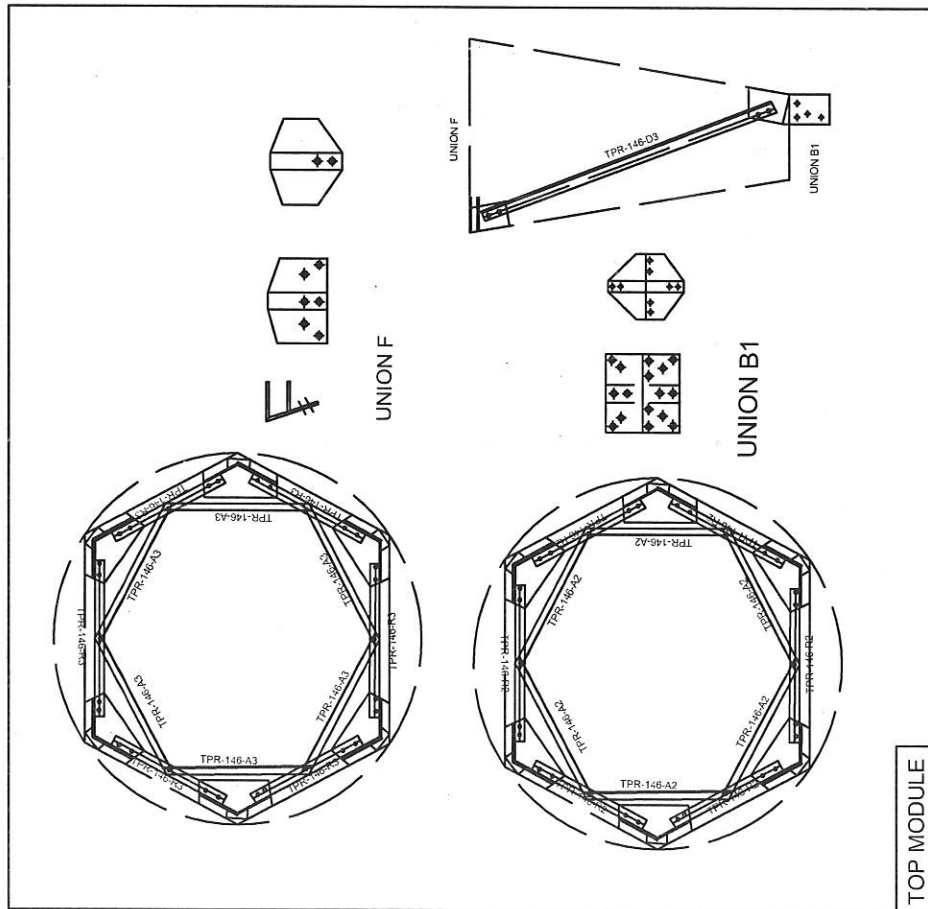
APPROVED BY : *[Signature]*
 CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)
 Commander, CGDS

SHEET NO. *[Blank]*

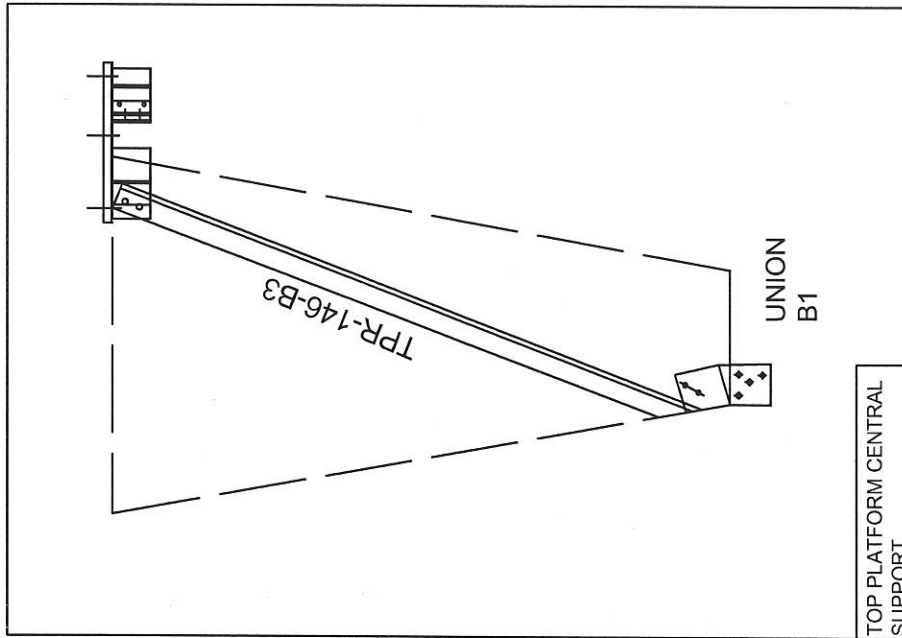
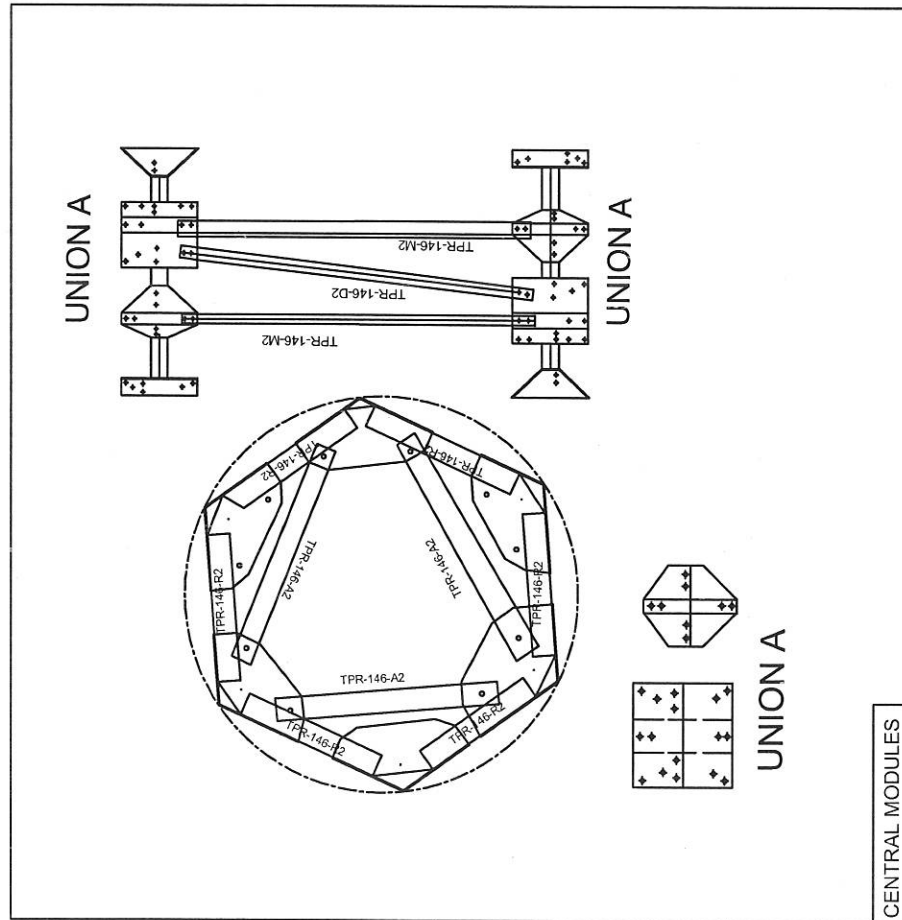


PROTECTION HANDRAIL NTS

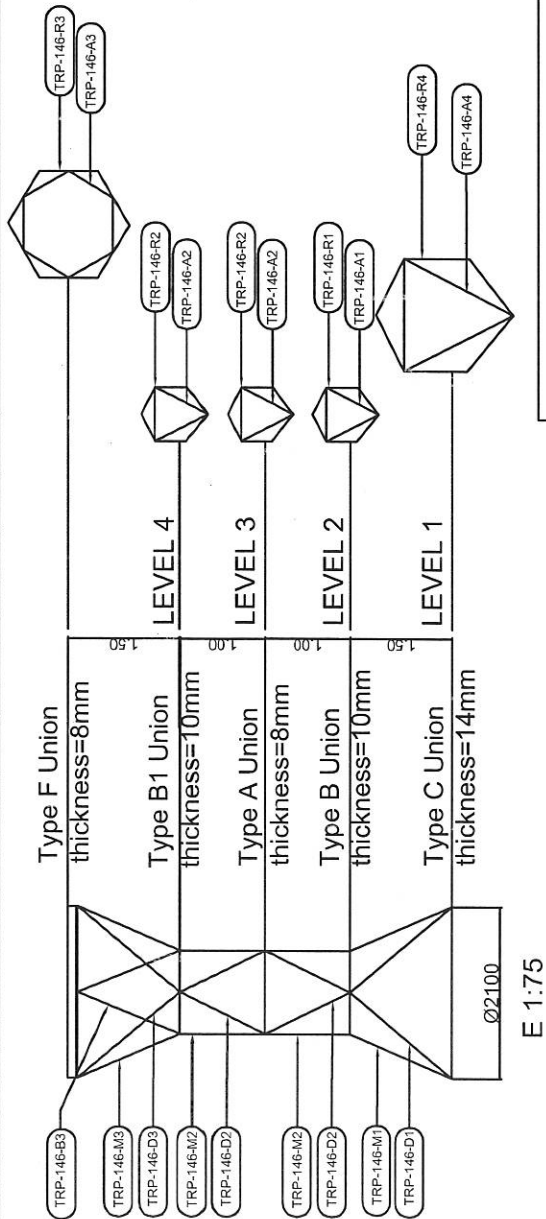
 PHILIPPINE COAST GUARD HEADQUARTERS, PORT MUSA, MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : MABUIS (DITAREM ISLAND, ITBAYAT, BATANES) OWNER : PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : <i>[Signature]</i> CG POC CIVIL & STRUCTURAL BRANCH	CHECKED BY : <i>[Signature]</i> CG ENSECCO AND CORRE Head, Project Performance and Evaluation	RECOMMENDED BY : <i>[Signature]</i> CG CORMAY GARNET GAMALLO Deputy Commander, CGUS	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR (GSC) Commander, CGUS		
REVISION	DATE				



PHILIPPINE COAST GUARD COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE 150 SOUTH ST. PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : MABUIS / DITAREM ISLAND, ITAYAT, BATANES OWNER : PHILIPPINE COAST GUARD		SHEET NO.
PREPARED BY : <i>[Signature]</i> CC-00000000 POL/CIVIL & STRUCTURAL BRANCH	CHECKED BY : <i>[Signature]</i> CC-00000000 POL/CIVIL & STRUCTURAL BRANCH	RECOMMENDED BY : <i>[Signature]</i> CC-00000000 Deputy Commander, CGIDS	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR (GSC) Commander, CGIDS	
REVISION : DATE :				



PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 150 26TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		SHEET NO.
PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY				
LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES				
OWNER: PHILIPPINE COAST GUARD				
PREPARED BY: <i>[Signature]</i> CG POB James B. Leboy POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY: <i>[Signature]</i> CG ENS EDGARDO M. VILLAR Head, Project Performance and Evaluation		APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO, JR. (GSC) Commander, CGDS
REVISION		DATE		

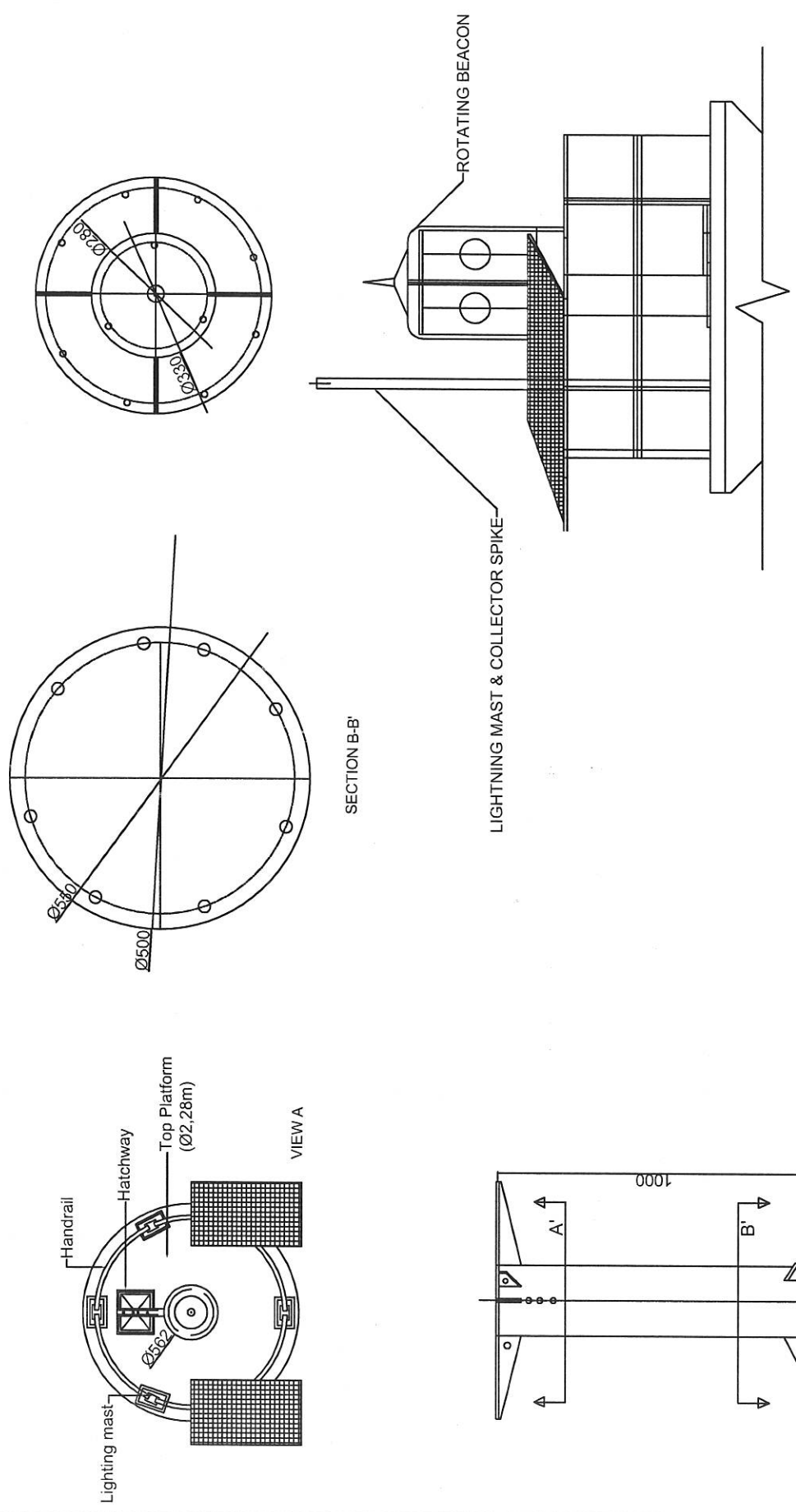


BARS

NTS

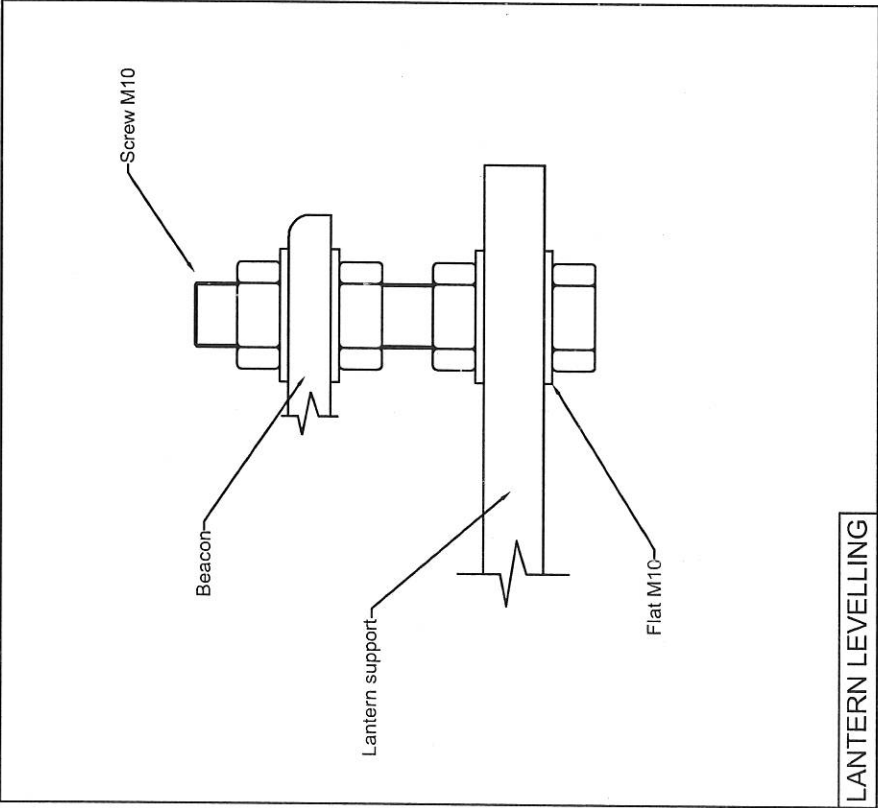
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TPR-146-M1	L70.6	6	M-20X40	410
TPR-146-D1	L70.6	6	M-20X40	410
TPR-146-R2	L60.5	24	M-16X35	210
TPR-146-A2	L60.5	12	M-16X35	210
TPR-146-M2	L60.5	24	M-16X35	210
TPR-146-D2	L60.5	24	M-16X35	210
TPR-146-R3	2L60.5(T)	6	M-16X35	210
TPR-146-A3	L60.5	6	M-16X35	210
TPR-146-M3	L60.5	6	M-16X35	210
TPR-146-D3	L60.5	6	M-16X35	210
TPR-146-B3	L60.5	3	M-16X40	210
TPR-146-R4	L60.5	12	M-16X35	210
TPR-146-A4	L60.5	6	M-16X35	210

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 130 SOUTH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : <i>[Signature]</i> CG ENS EDGARDO J. CORTES POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY : <i>[Signature]</i> CG ENS EDGARDO J. CORTES Head, Project Performance and Evaluation		RECOMMENDED BY : <i>[Signature]</i> CG CDR MAR GARINET OCAMALLO Deputy Commander, CGIDS		APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR (GSC) Commander, CGIDS	
REVISION :		DATE :					

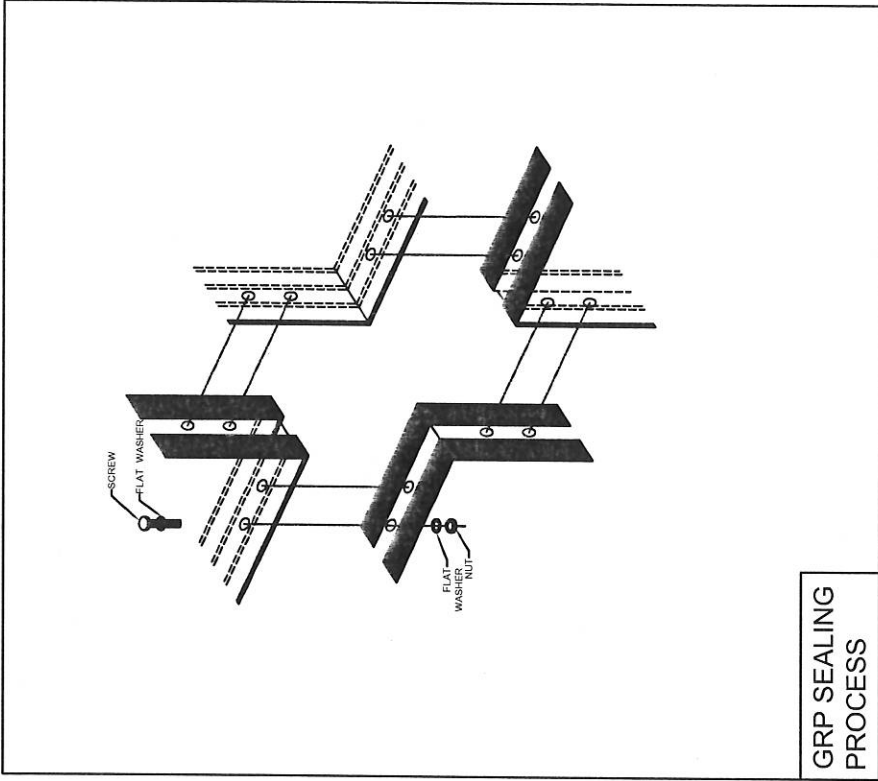


LANTERN SUPPORT NTS

 PHILIPPINE COAST GUARD HAKODANVILLE PHILIPPINE COAST GUARD 139 38TH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY CG 083 JAMES B. TORRES	CHECKED BY CG ENS EDGARDO C. TORRES	RECOMMENDED BY CG CDR KAT GARNETT C. CANALLO	APPROVED BY CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)	DATE	
REVISION	DATE	CG CDR KAT GARNETT C. CANALLO Deputy Commander, CGIDS			



LANTERN LEVELLING



GRP SEALING
PROCESS



PHILIPPINE COAST GUARD
COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE

PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY
LOCATION : DITAREM, CAGAYAN DE ORO, CAGAYAN, BAYANES
OWNER : PHILIPPINE COAST GUARD

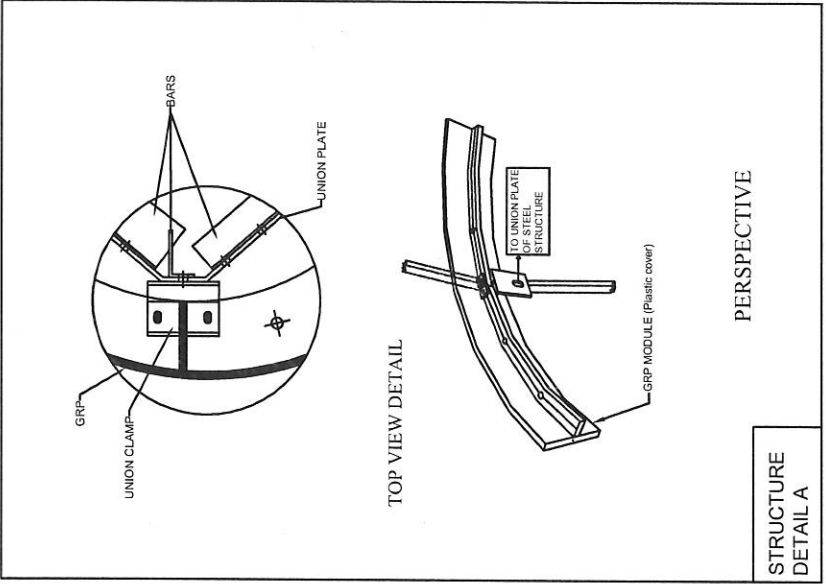
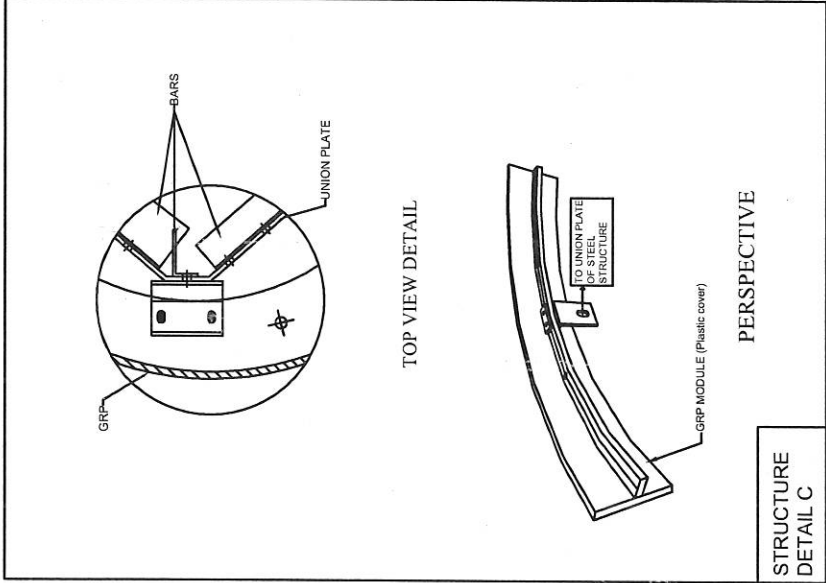
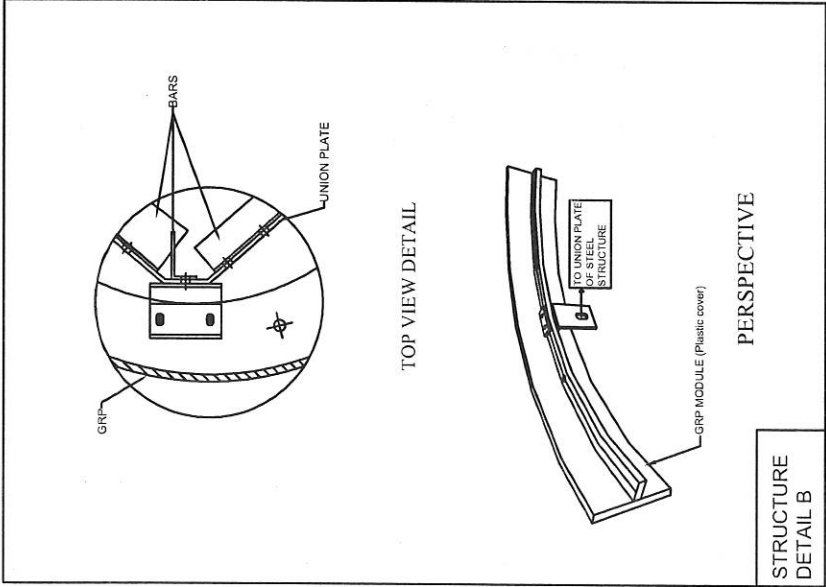
PREPARED BY : CG PCG CIVIL & STRUCTURAL BRANCH
REVISION :
DATE :

CHECKED BY :
CG ENS EDGARDO J. CORTES
Head, Project Performance and Evaluation

RECOMMENDED BY :
CG SORRAY GARNER C. GABALLO
Deputy Commander, CGIDS

APPROVED BY :
CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)
Commander, CGIDS

SHEET NO.



PHILIPPINE COAST GUARD

HEADQUARTERS PHILIPPINE COAST GUARD
150 25TH ST. FORT AREA MANILA

**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**



PROJECT TITLE :
LOCATION :
OWNER :

CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY

PREPARED BY :

CG POC JAMES B. ARROYO

POIC CIVIL & STRUCTURAL BRANCH

REVISION

DATE

CHECKED BY :

CG ENS EDGARDO J. COPIZ
Head, Project Performance and Evaluation

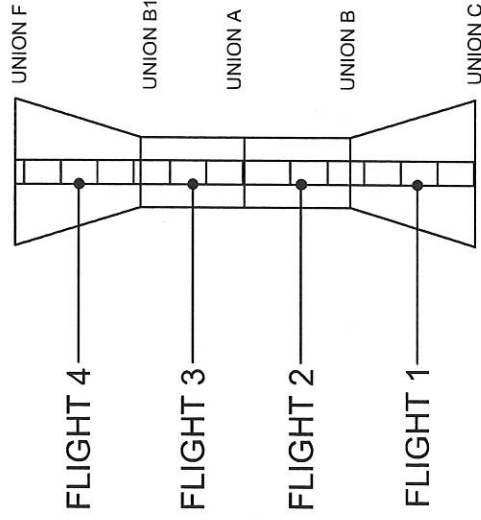
RECOMMENDED BY :

CG CDR RAY EARNST C. SAMALLO
Deputy Commander, CGIS

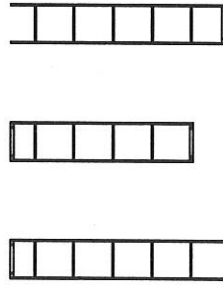
APPROVED BY :

CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)
Commander, CGIS

SHEET NO

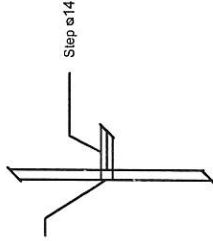


FLIGHT 1 FLIGHT 2 & 3 TRAMO 3

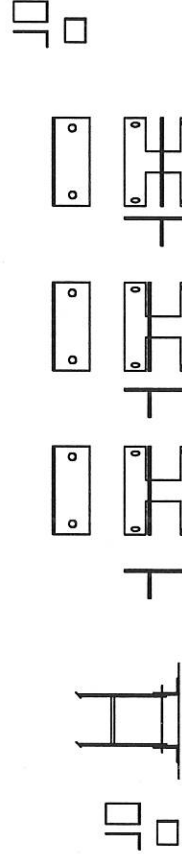
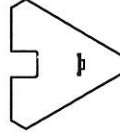
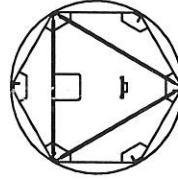


Bolt hole $\phi 14.5$
(to fill up with welding)

Union of step



Step $\phi 14$



INTERNAL LADDER NTS



PHILIPPINE COAST GUARD
HEADQUARTERS PHILIPPINE COAST GUARD
150 3RD ST. PORT AREA MANILA

**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**

PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY
LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES

PREPARED BY : CG PO3 James B. Lora
POIC CIVIL & STRUCTURAL BRANCH

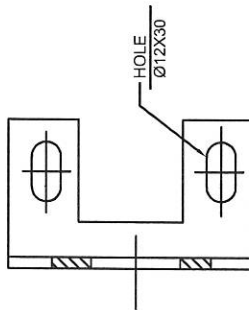
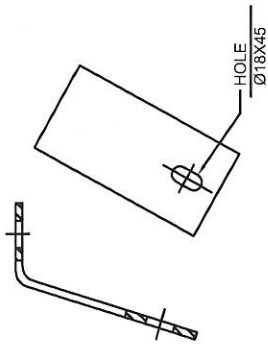
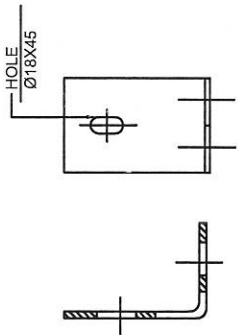
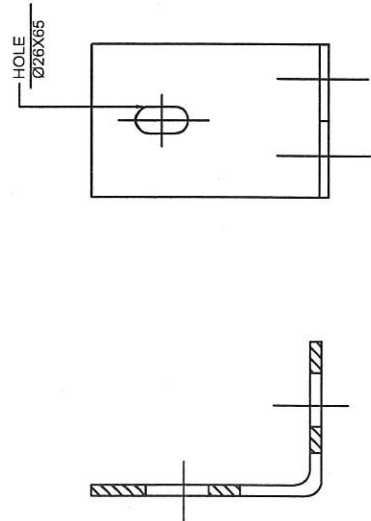
REVISION :
DATE :

CHECKED BY :
CG ENS EDGARDO J. COMEY
Head, Project Performance and Evaluation

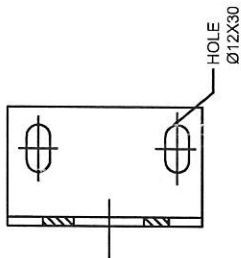
RECOMMENDED BY :
CG CDR RAY GARNET C. SAMALLO
Deputy Commander, CGIDS

APPROVED BY :
CG CAPT PRUDENCIO C. PATRICIO JR. (GSC)
Commander, CGIDS

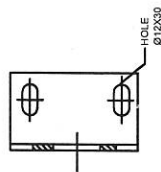
SHEET NO.



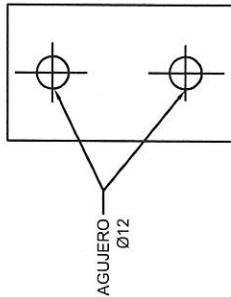
UNION CLAMPS
TYPE A
UNION C-D



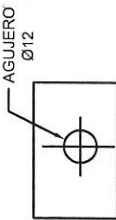
UNION CLAMPS
TYPE B
UNION B-A-B1



UNION CLAMPS
TYPE C
UNION F



UNION PLATES

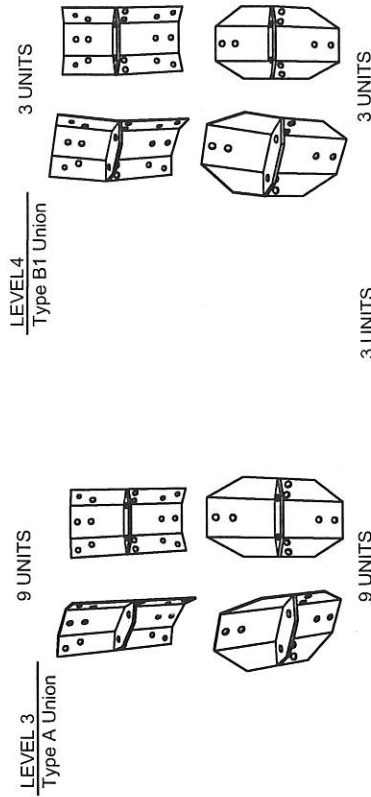
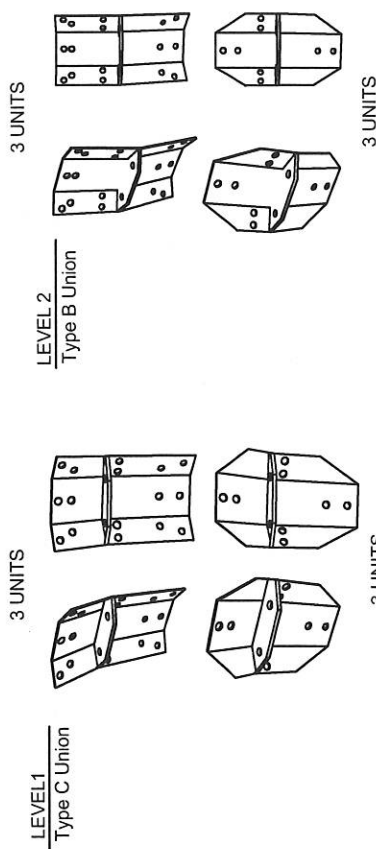


GRP- STRUCTURAL UNION CLAMPS(A-B-C)

NTS

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 150 25TH ST. PORT AREA MANILA		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: MABUDIS / DITAREM ISLAND, ITBAYAT, BATANES OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : <i>[Signature]</i> CG PO James B. Lloboy POIC CIVIL & STRUCTURAL BRANCH		RECOMMENDED BY : <i>[Signature]</i> CG CDR RAY GARNET C. GAMALLO Deputy Commander, CGUS		APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR (GSC) Commander, CGUS	
REVISION		CHECKED BY : <i>[Signature]</i> CG ENS EDGARDO CORTEZ Head, Project Performance and Evaluation		DATE	
COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE					

Union clamps Type C	Type F union thickness=8mm	LEVEL 5
Union clamps Type B	Type B1 union thickness=10mm	LEVEL 4
Union clamps Type B	Type A union thickness=8mm	LEVEL 3
Union clamps Type B	Type B union thickness=10mm	LEVEL 2
Union clamps Type A	Type C union thickness=14mm	LEVEL 1



UNION PLATES DETAILS

NTS

 PHILIPPINE COAST GUARD 152 20TH ST., PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION DITAREM AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : MARANAO, ITAYAT, BATANES OWNER : PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY : <i>[Signature]</i> POC CIVIL & STRUCTURE BRANCH	CHECKED BY : <i>[Signature]</i> CG CAPT EDGARDO C. GARCIA Head, Project Performance and Evaluation	RECOMMENDED BY : <i>[Signature]</i> CG CAPT DAN GARNIER C. GALVALLO Deputy Commander, CGIS	APPROVED BY : <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIS		
REVISION : DATE :					