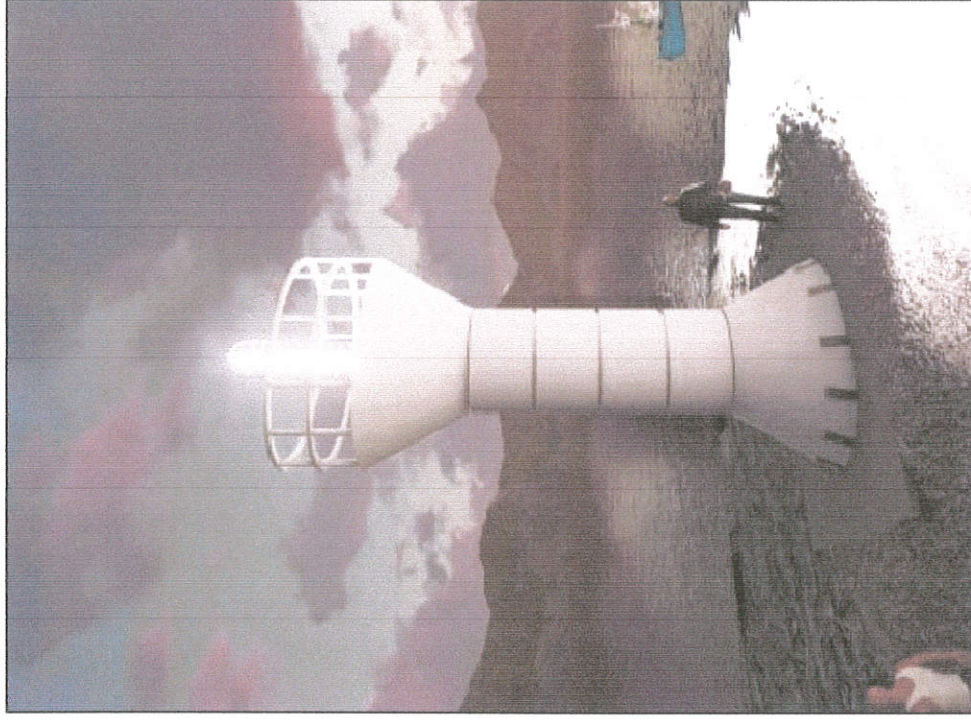
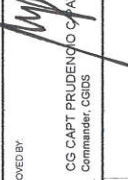


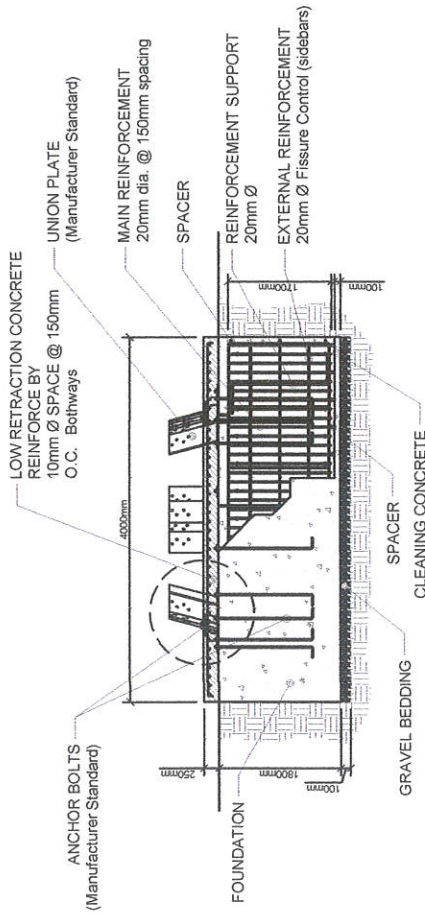


SITE DEVELOPMENT PLAN

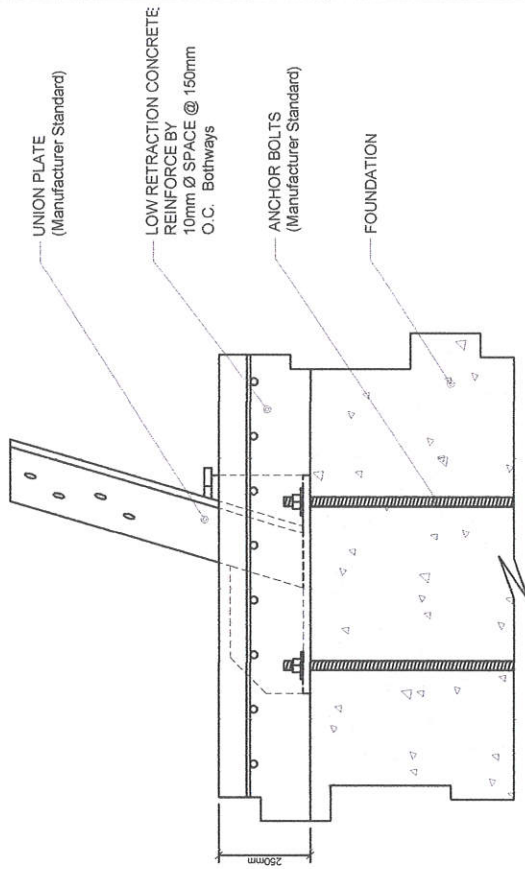


PERSPECTIVE

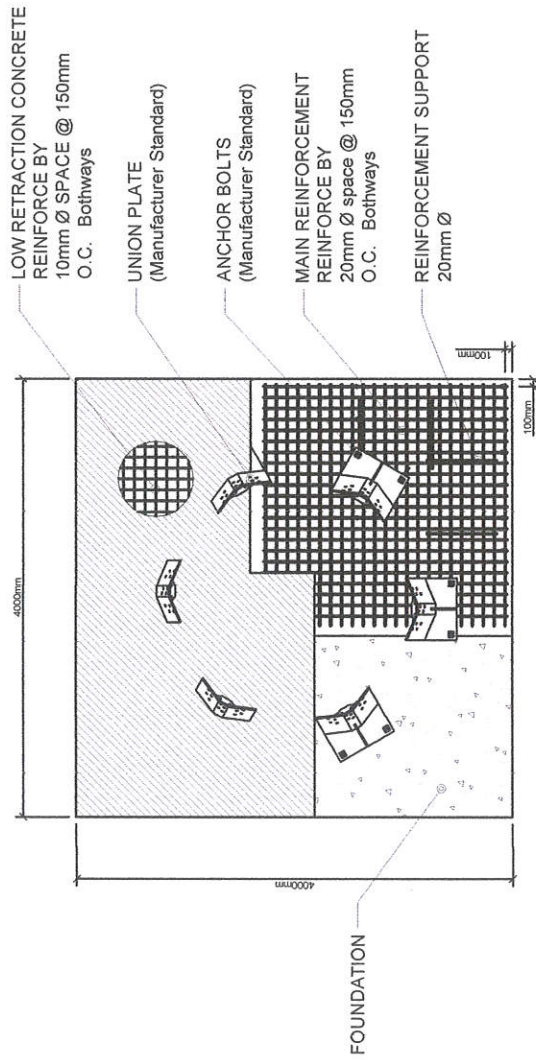
 PHILIPPINE COAST GUARD HS-00000000 PHILIPPINE COAST GUARD HS-00000000 PHILIPPINE COAST GUARD		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPRI, GALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG PO3 JAMES B. LOPEZ POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY  CGENS EDUARDO J. LOPEZ Head, Project Performance and Evaluation		RECOMMENDED BY  CGDR JAY GABRIEL SAMALLO Deputy Commander, CGIDS		APPROVED BY  CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	



FOUNDATION DTL. SECTION

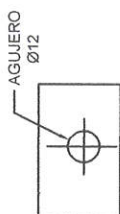
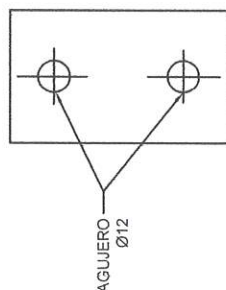
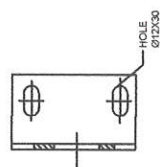
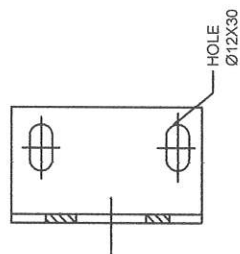
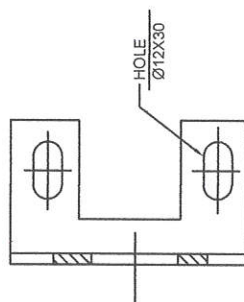
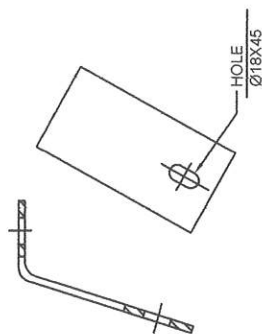


UNION PLATE CONNECTION DTL.



FOUNDATION DETAILS

 PHILIPPINE COAST GUARD 15-QUARTERS PHILIPPINE COAST GUARD 15-SENTRO-COAST INFRASTRUCTURE		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPRI, CALAYAN, AGAYAN OWNER: PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY: <i>James B. Lobo</i> CG PO CIVIL & STRUCTURAL BRANCH	CHECKED BY: <i>Edgar B. Gamallo</i> CG ENS EDGAR B. GAMALLO Head, Project Performance and Evaluation	RECOMMENDED BY: <i>CG Capt. Prudence C. Patricia Jr.</i> CG CAPT. PRUDENCE C. PATRICIA JR. (GSC) Commander, CGIDS	APPROVED BY:		



UNION CLAMPS
TYPE A
UNION C-D

UNION CLAMPS
TYPE B
UNION B-A-B1

UNION CLAMPS
TYPE C
UNION F

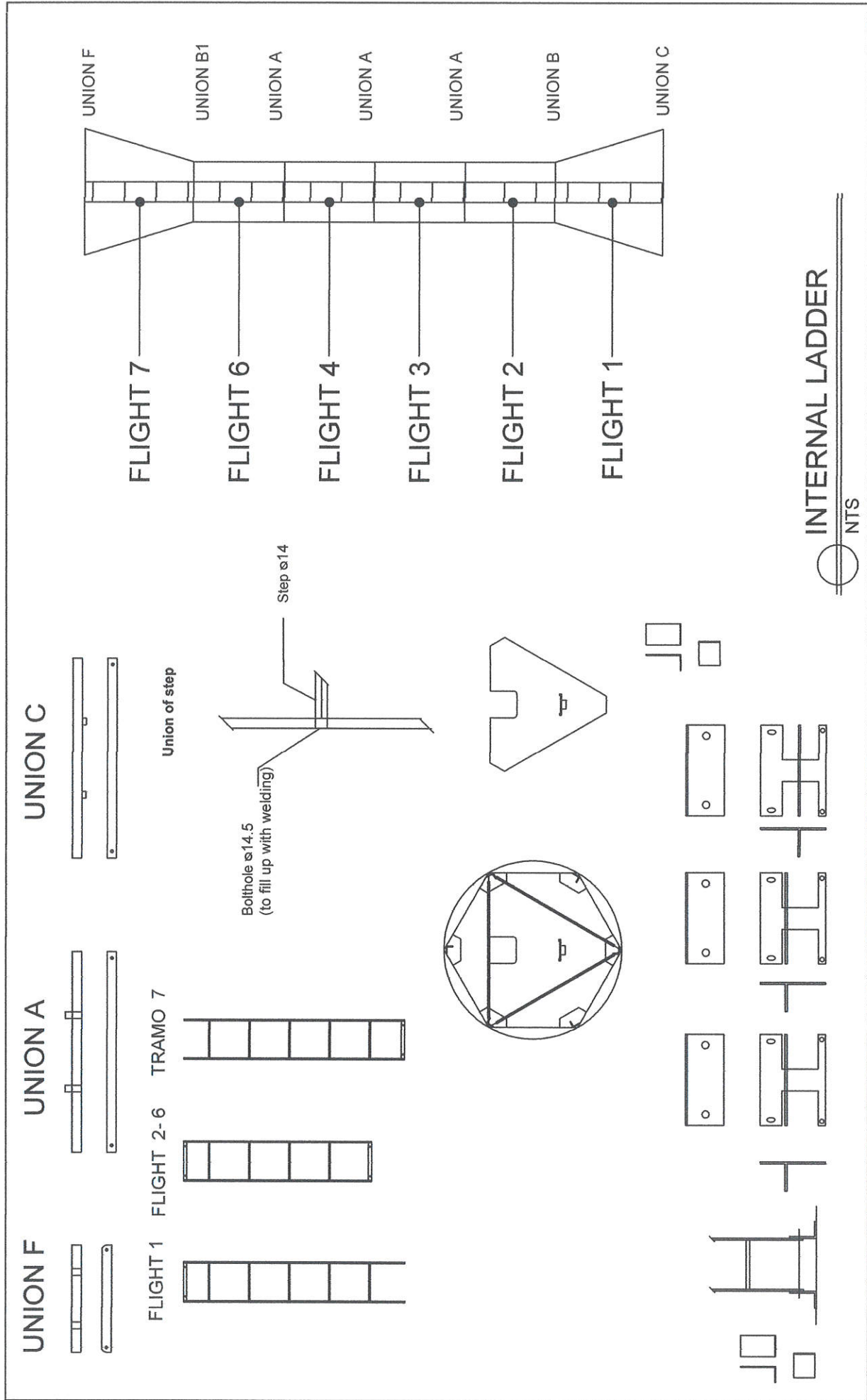
UNIORLATES

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

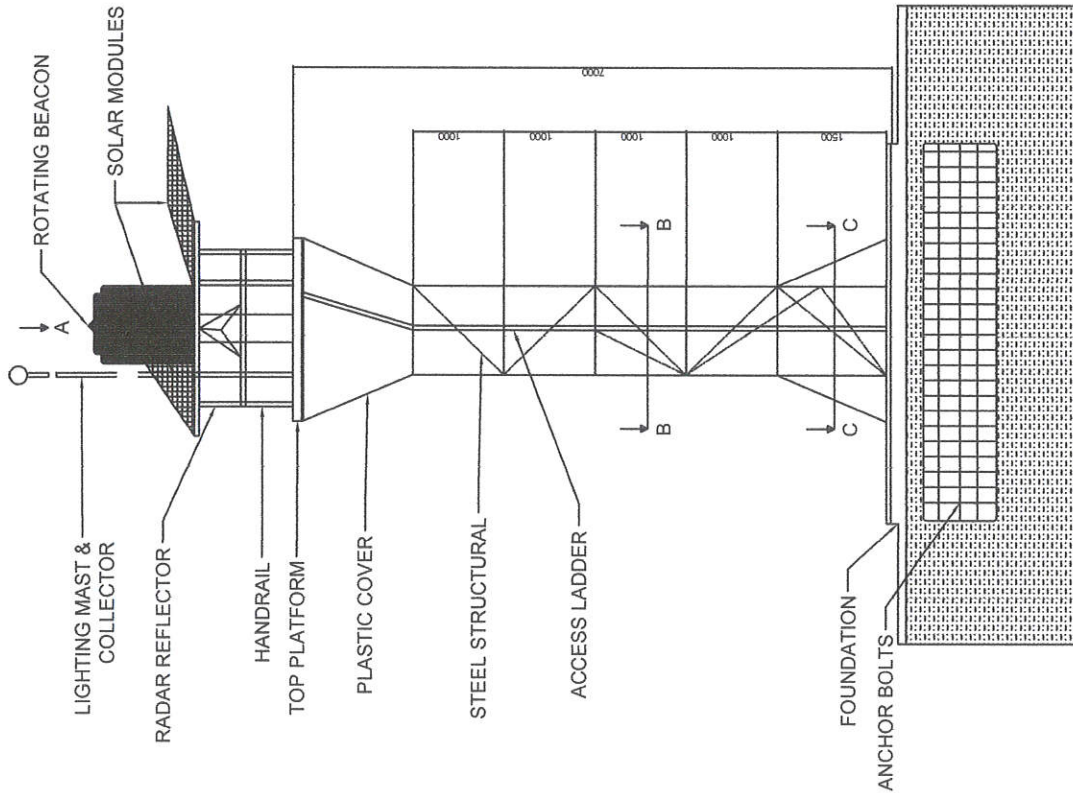


NTS

 PHILIPPINE COAST GUARD NON-SUBMERGED PHILIPPINE COAST GUARD 130 25TH ST. PORT AGUA MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHEAST ISLANDS OF THE COUNTRY				SHEET NO.
	LOCATION : MALAYAN CAGUAIAN PHILIPPINE COAST GUARD				
	OWNERS :				
	PREPARED BY : CG PO4 JAMES B LUGON POIC CIVIL & STRUCTURAL BRANCH				
REVISION		CHECKED BY :  CG ENS EUGENIO B. BAYEZ Head, Project Performance and Evaluation		RECOMMENDED BY :  CG CAPT PRUDENCIO C. TRICIO JR. (SSC) Commanding Officer	

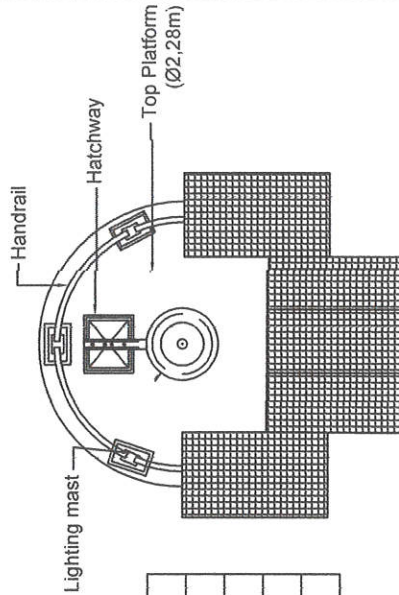


 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 100 SENIT PORT AREA, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY	SHEET NO.
LOCATION: IRAO ISLAND, DALUPRI, CALAYAN CAGAYAN	OWNER: PHILIPPINE COAST GUARD	PREPARED BY: CG PO [Signature] (Engr. B. L. [Signature]) POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY: CG ENS [Signature] (Engr. J. [Signature]) Head, Project Management and Estimation	RECOMMENDED BY: CG CDR [Signature] (Engr. C. [Signature]) Deputy Commanding Officer	APPROVED BY: CG CAPT [Signature] (Engr. C. [Signature]) Commander, CGCS
REVISION	DATE				

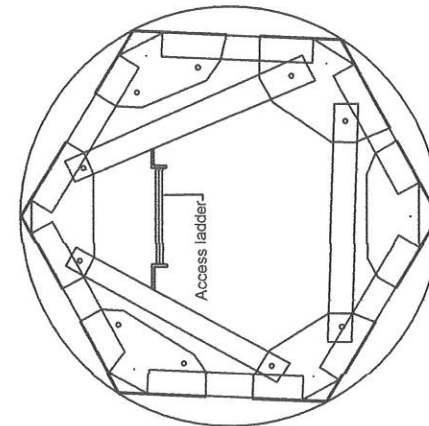


7 Meters LS

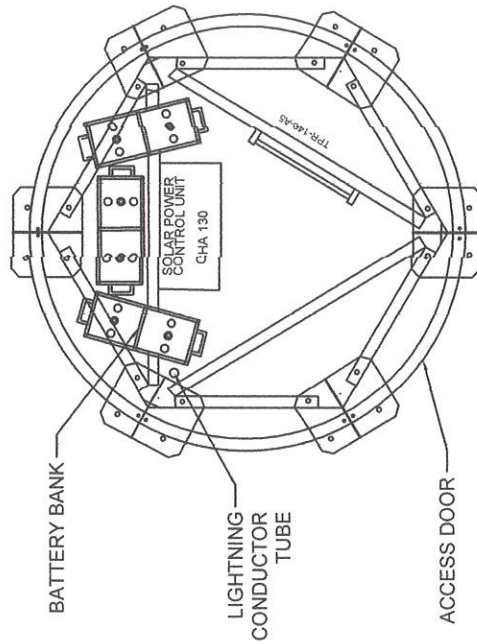
Height	7000mm
Base Diameter	2000mm
Tower Diameter	1200mm
Foundation Bolt PCD	1850mm
Number of Modules / Section	6



VIEW A



SECTION B-B'

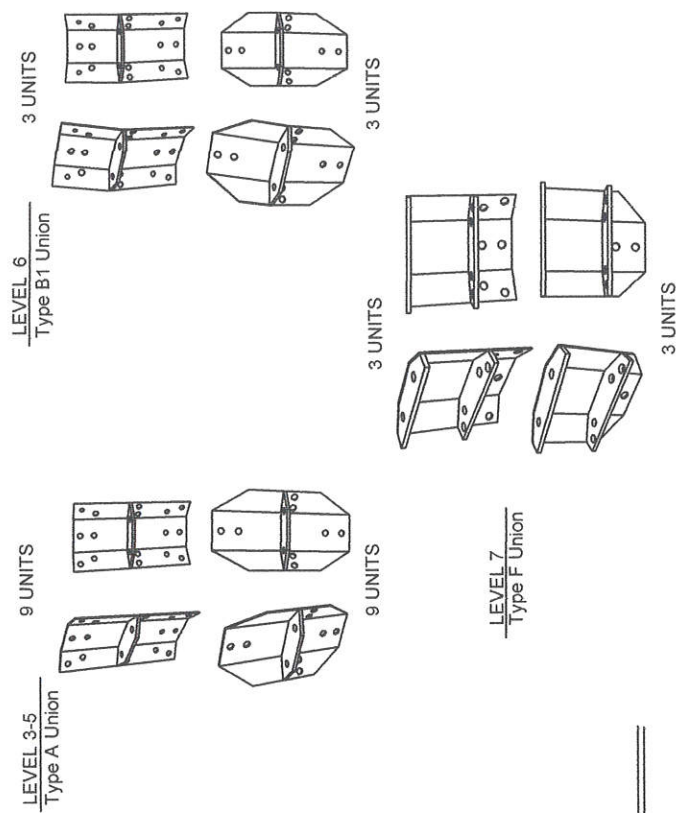
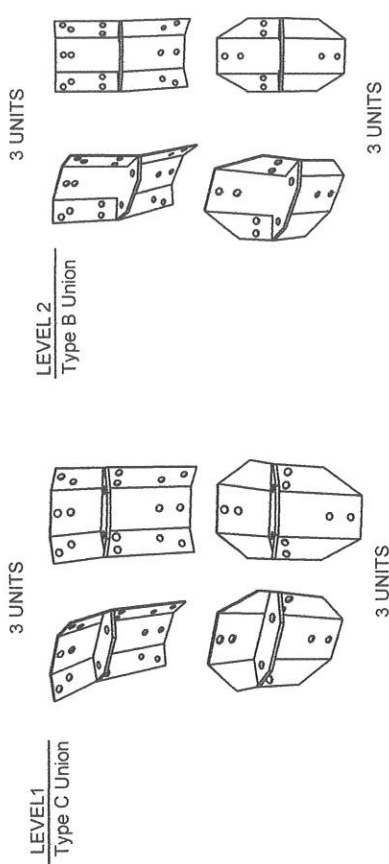


SECTION C-C'

GENERAL DRAWING NTS

PHILIPPINE COAST GUARD COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAD AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : DALUPIT, CALAYAN, CAGAYAN OWNER : PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY : CG P04/James B. Lacey POIC CIVIL & STRUCTURAL BRANCH		CHECKED BY : CG ENS EDUARDO A. LOPEZ Head, Project Performance and Evaluation		APPROVED BY : CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commander, CGIDS	
REVISION :		DATE :		RECOMMENDED BY : CG CAPT RAY GARNER C. GAMALLO Deputy Commander, CGIDS	

Union clamps Type C	LEVEL 7 Type F union thickness=8mm	1.50
Union clamps Type B	LEVEL 6 Type B1 union thickness=10mm	1.00
Union clamps Type B	LEVEL 5 Type A union thickness=8mm	1.00
Union clamps Type B	LEVEL 4 Type A union thickness=8mm	1.00
Union clamps Type B	LEVEL 3 Type A union thickness=8mm	1.00
Union clamps Type B	LEVEL 2 Type B union thickness=10mm	1.00
Union clamps Type A	LEVEL 1 Type C union thickness=14mm	1.50

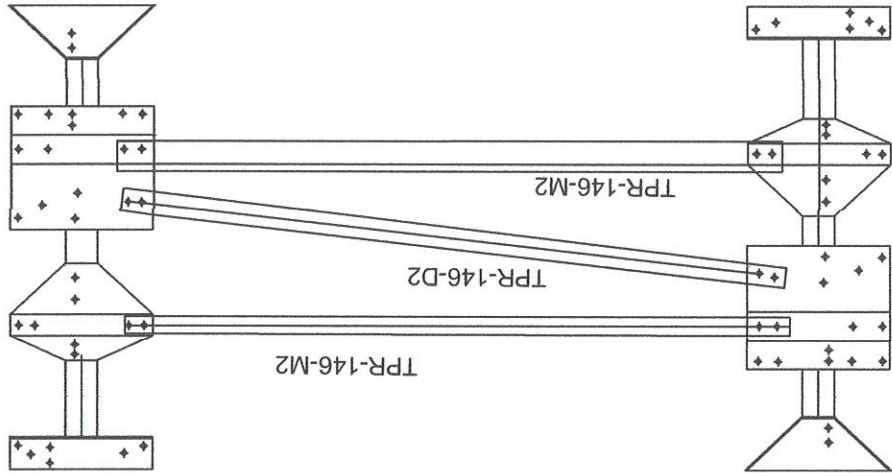


UNION PLATES DETAILS

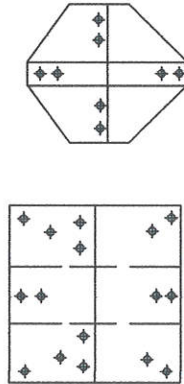
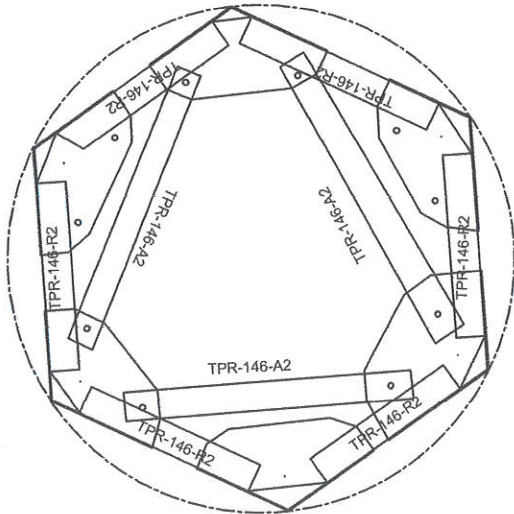
NTS

 PHILIPPINE COAST GUARD COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION : IRAO ISLAND, DALUPURI, CALAYAN, CAGAYAN OWNER : PHILIPPINE COAST GUARD		SHEET NO.
PREPARED BY : <i>James B. Cortez</i> CG ROBERTO J. CORTES POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY : REVISION : DATE :	RECOMMENDED BY : CG CAR RAY GARNENC GAMALLO Deputy Commander, CGIDS	APPROVED BY :  CG CAPT PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	

UNION A



UNION A

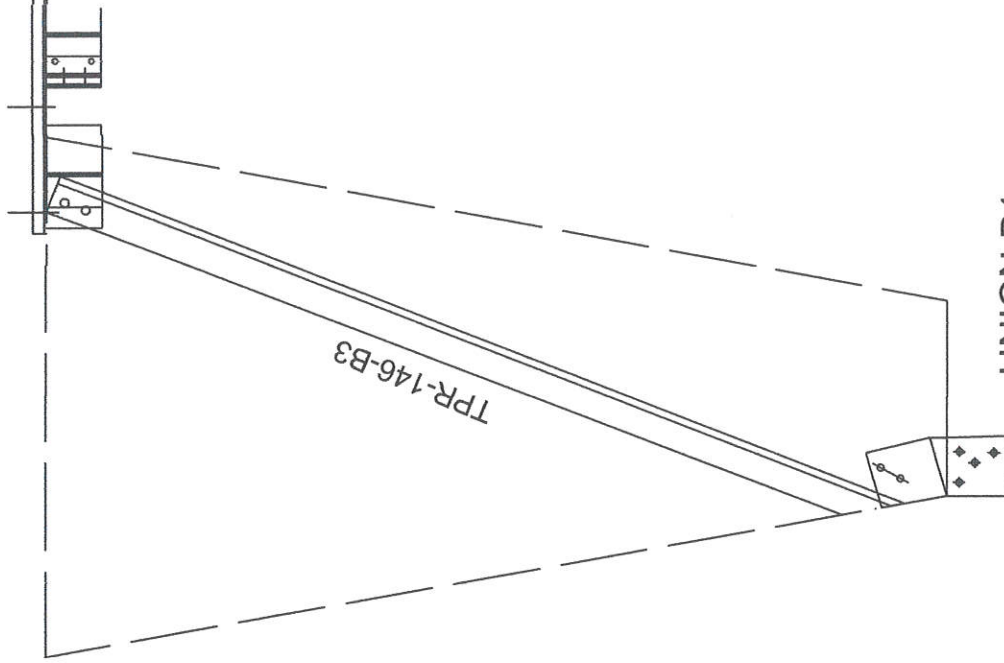


UNION A

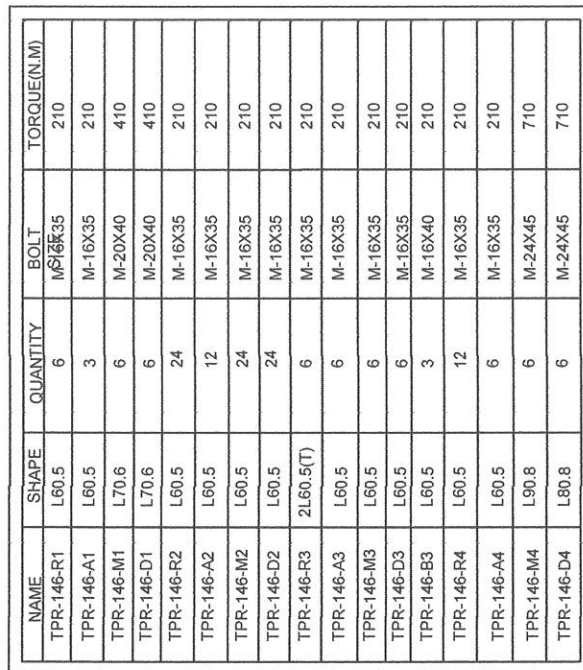
CENTRAL MODULES

TOP PLATFORM
CENTRAL SUPPORT

UNION B1

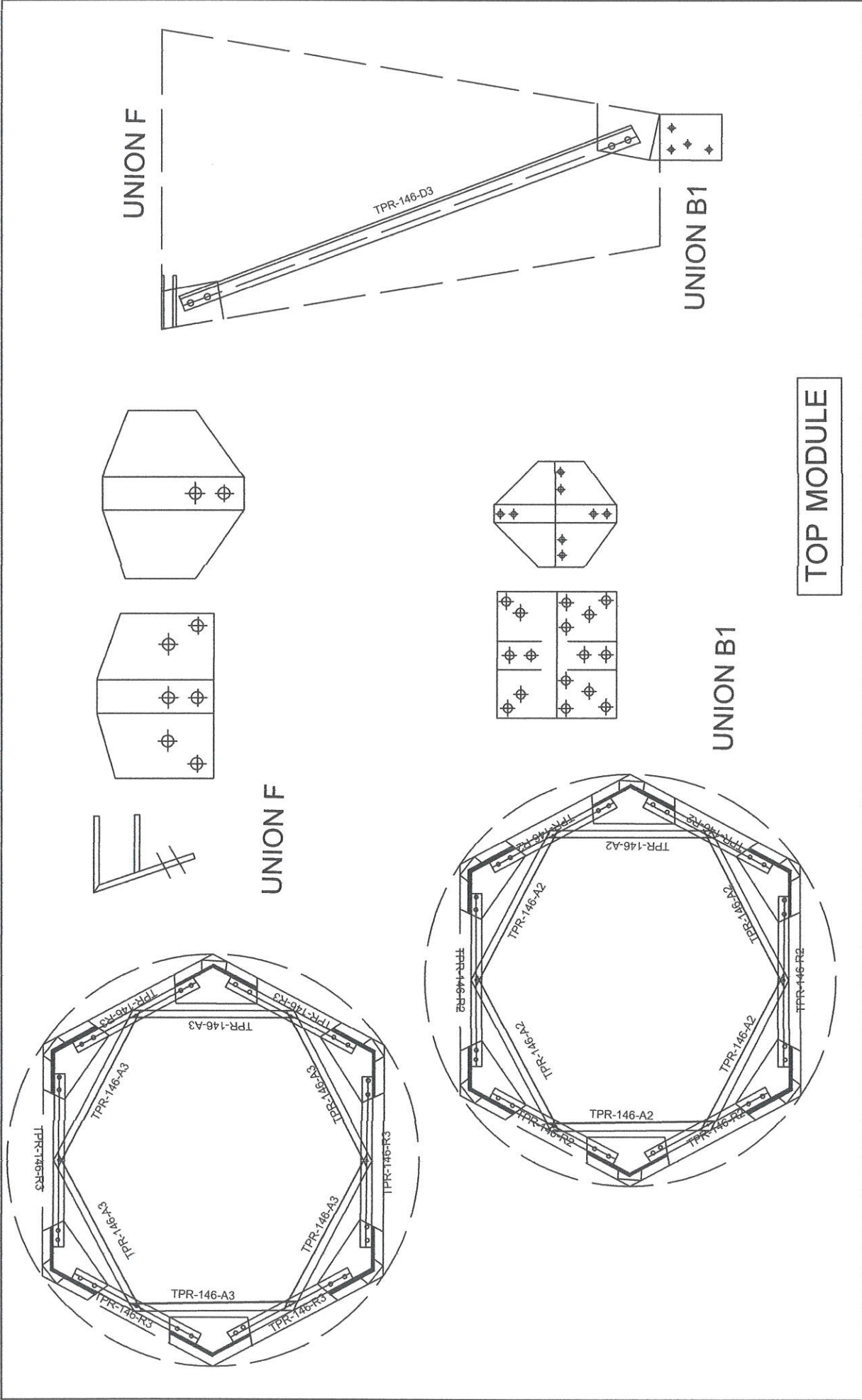


 PHILIPPINE COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPURI, CALAYANAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.
PREPARED BY CG PO James B. Joy	REVISION	DATE	APPROVED BY CG CAPT PRUDENCIO PATRICIO JR (GSC) Commander, CGDS	RECOMMENDED BY CG CDR AN GARNET OCAMALLO Deputy Commander, CGDS

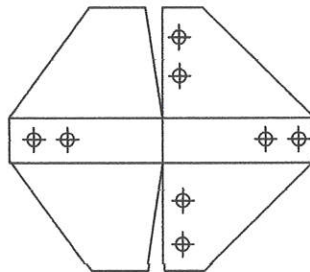
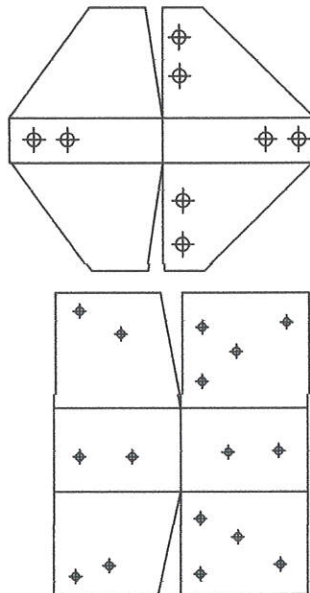
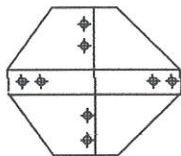
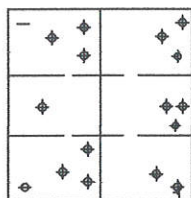
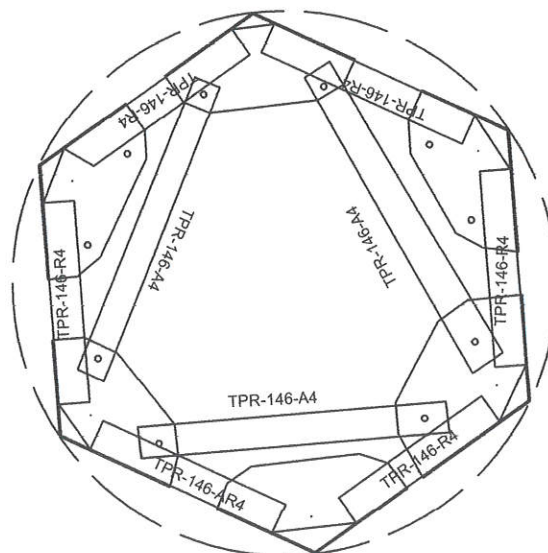


BARS DETAILS

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 25TH ST. PORT AREA MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE	PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPURI, CALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
	PREPARED BY: CG PGT JIMES B. LOPEZ	CHECKED BY: <i>[Signature]</i> CG ENS EDUARDO R. SORTEZ Head, Project Performance and Evaluation	RECOMMENDED BY: <i>[Signature]</i> CG CDR RAY GARNIER G. GAILLO Deputy Commandant, PCCS	APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENCIO C. PATRICIO JR. (SSC) Commandant, PCCS
	REVISION:	DATE:		



 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 138 SOUTH ST. PORT AREA MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE										PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPRI, CALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD										PREPARED BY: <i>Edgar</i> CG PATTABHAKTAR B. LOPEZ POC UNIT & STRUCTURAL BRANCH REVISION: DATE:										CHECKED BY: <i>Edgar</i> CG ENS EDGARDO J. CORRAL Head, Project Performance and Evaluation										RECOMMENDED BY: <i>[Signature]</i> CG CDR RAYMOND P. GARCIA Deputy Commander, CGDS										APPROVED BY: <i>[Signature]</i> CG CAPT PRUDENZO Q. PATRICIO JR. (GSC) Commander, CGDS										SHEET NO.									
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UNION B

UNION B

UNION C

UNION C

CONE TRUNCATED MODULE-2

1PR-146-R1

PROJECT TITLE :
LOCATION:
OWNER:

CONSTRUCTION OF LIGHT STATION IRAO
IRAQ ISLAND, DALUPIRI, CALAYAN, CAGAYAN
PHILIPPINE COAST GUARD

IRAO AS PART OF THE CONSTRUCTION OF T
AN

(13) LIGHTHOUSE

IN MOST ISLAND

THE ISLANDS OF THE COUNTRY

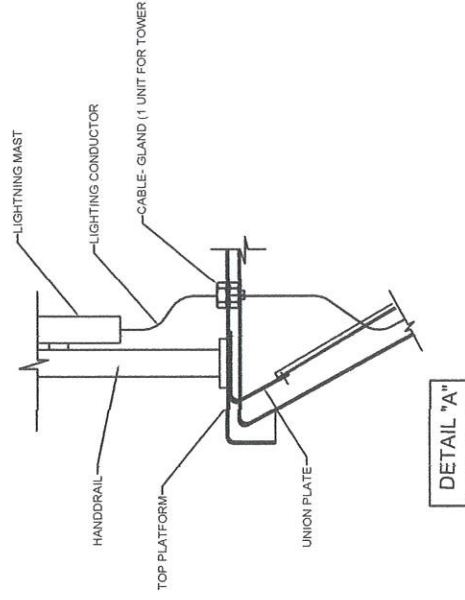
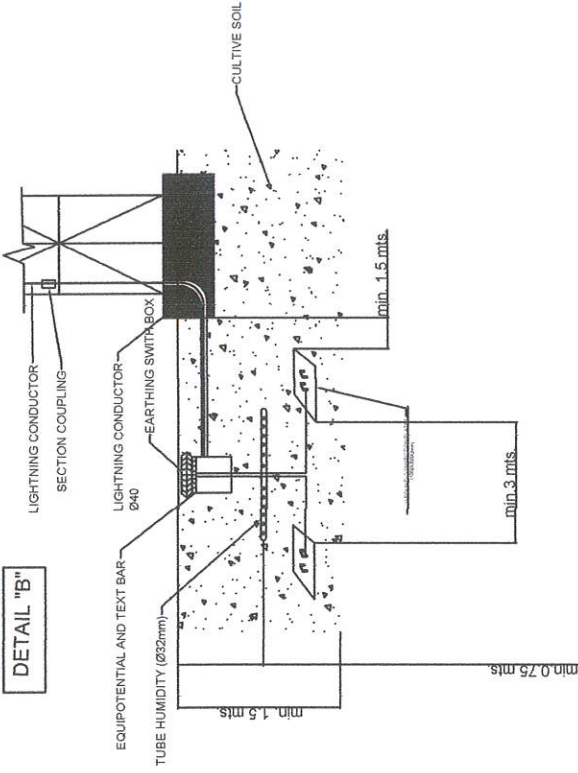
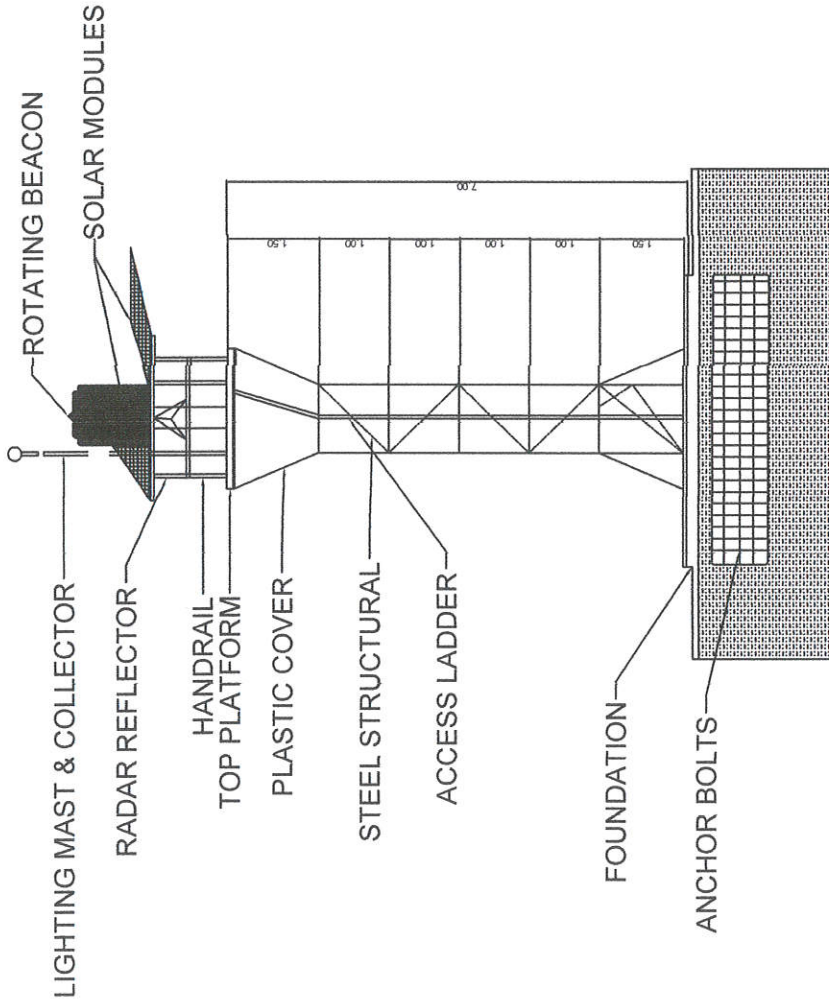
SHEET NO.

PHILIPPINE COAST GUARD

HEADQUARTERS PHILIPPINE COAST GUARD

COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE

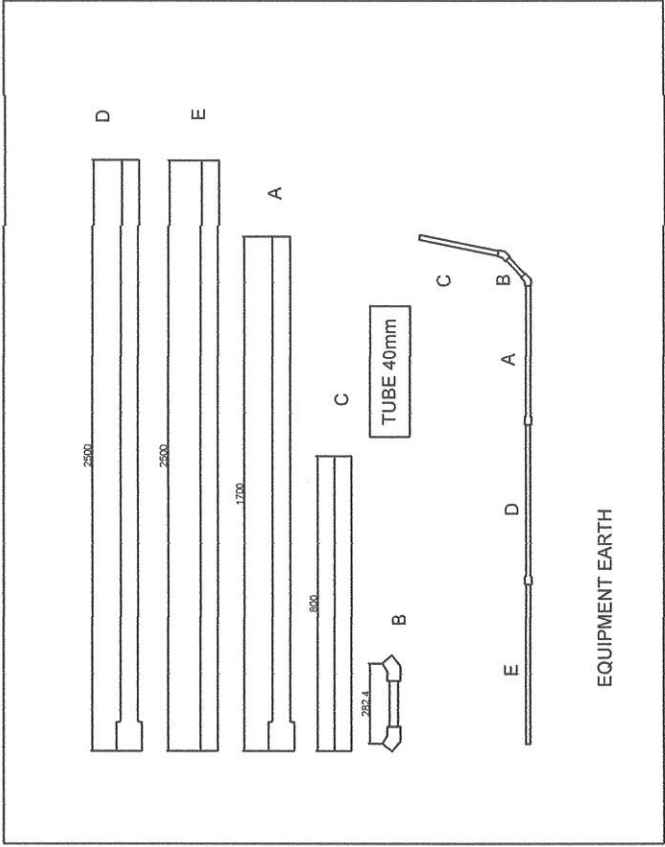
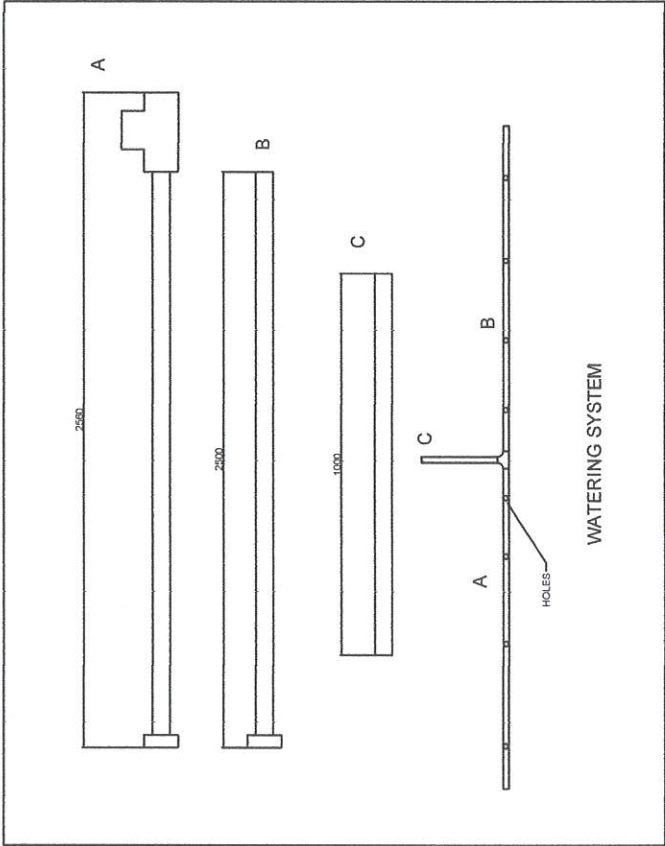




GROUNDING PROTECTION SYSTEM



 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 138 SOUTH ST. PORT AREA, MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERMOST ISLANDS OF THE COUNTRY LOCATION : IRAO ISLAND, DALUPURI, CALAYAN, CAGAYAN OWNER : PHILIPPINE COAST GUARD	SHEET NO.
PREPARED BY : <i>James B. Loo</i> CG POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY : <i>James B. Loo</i> CG POIC CIVIL & STRUCTURAL BRANCH	RECOMMENDED BY : <i>Ray Gabriel N. Gamallo</i> Deputy Commander, CGIDS	APPROVED BY : <i>CG CAPT PRUDENCIO C. PATRICIO, JR.</i> Commander, CGIDS		
REVISION :	DATE :				



PHILIPPINE COAST GUARD
HEADQUARTER'S PHILIPPINE COAST GUARD
59 25TH ST. PORT AREA MANILA

**COAST GUARD INFRASTRUCTURE
DEVELOPMENT SERVICE**

PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY
LOCATION: IRAO ISLAND, DALUPRI, CALAYAN CAGAYAN
OWNER: PHILIPPINE COAST GUARD

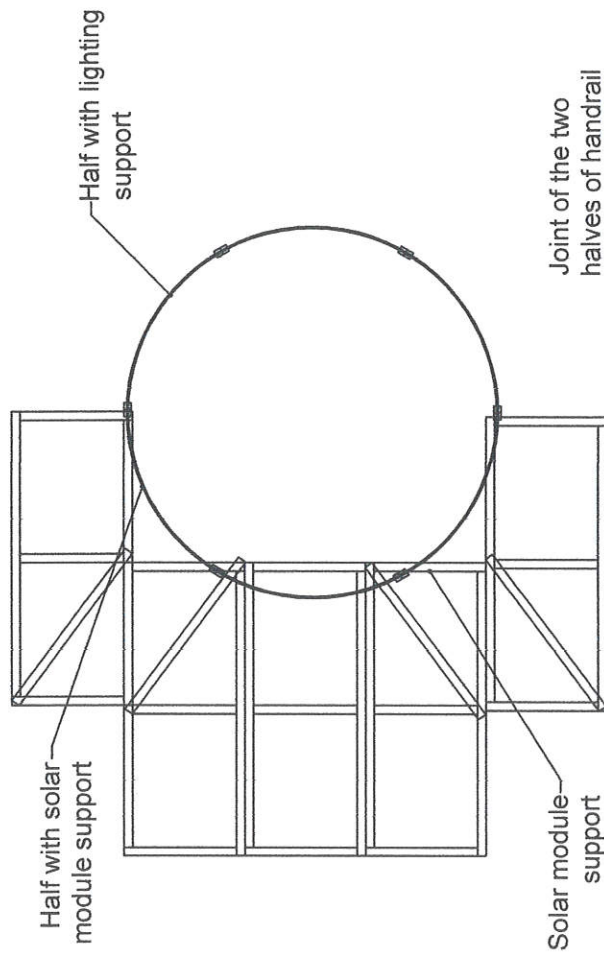
PREPARED BY: *James B. Loo*
CG PO CIVIL & STRUCTURAL BRANCH
REVISION: _____ DATE: _____

CHECKED BY: *James B. Loo*
CG ENS EDGARDO J. LEE
Head, Project Management and Estimation

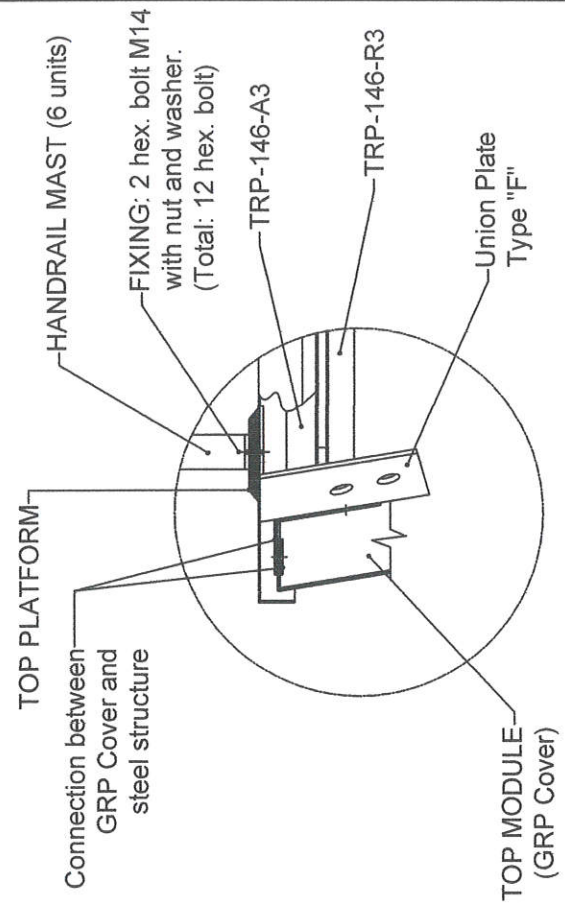
RECOMMENDED BY: *James B. Loo*
CG CDR ROBERTO C. GALLO
Deputy Commanding Officer

APPROVED BY: *James B. Loo*
CG CAPT. PRUDENCIO C. FRICIO JR. (SSC)
Commanding Officer

SHEET NO. _____

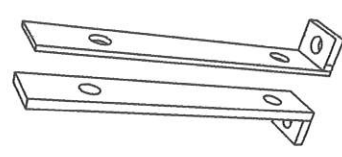


Joint of the two halves of handrail



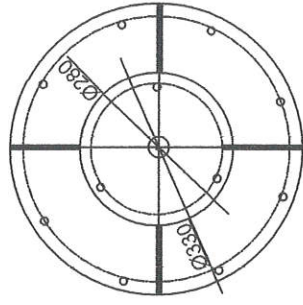
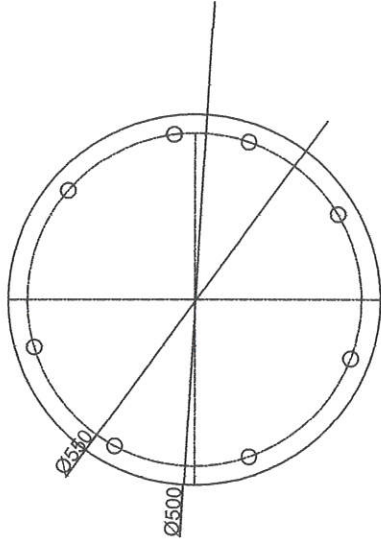
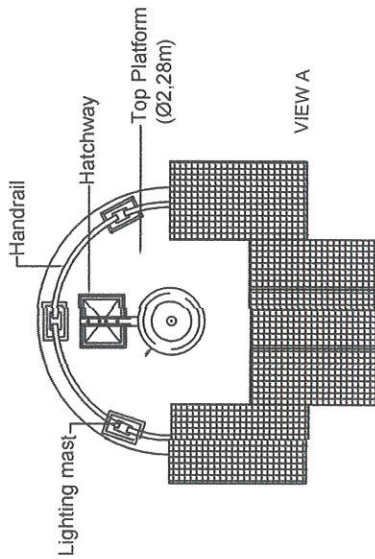
Joint of the two halves of handrail

Handrail joint with top platform

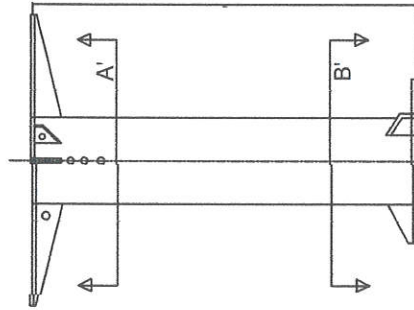
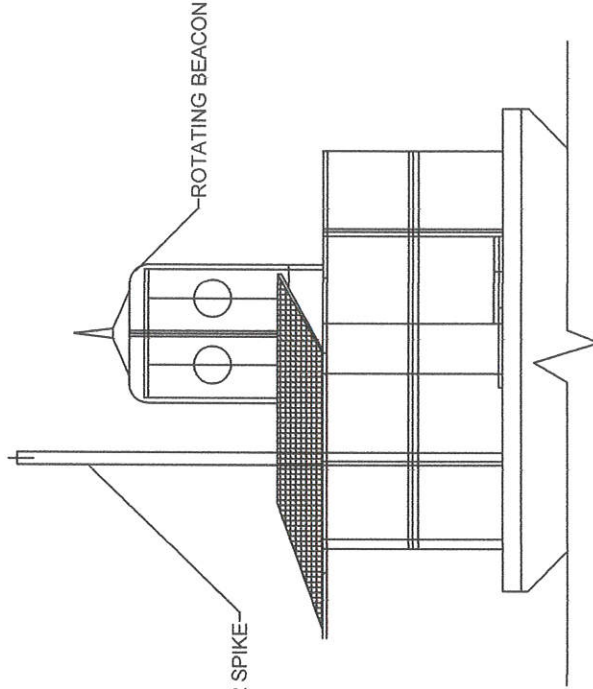


PROTECTION HANDRAIL NTS

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 139 JSTH ST. PORT AREA MANILA		COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPIRI, CALAYAN CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.	
PREPARED BY CG PO3 JAMES B. LORIO	CHECKED BY  CG ENS EDUARDO C. GARCIA Head, Project Performance and Evaluation	RECOMMENDED BY  CG CAPT GABRIEL GALLO Deputy Commander, CGIDS	APPROVED BY  CG CAPT PRUDENCIO C. PATRICIO, JR. (SSC) Commander, CGIDS				
REVISION	DATE						



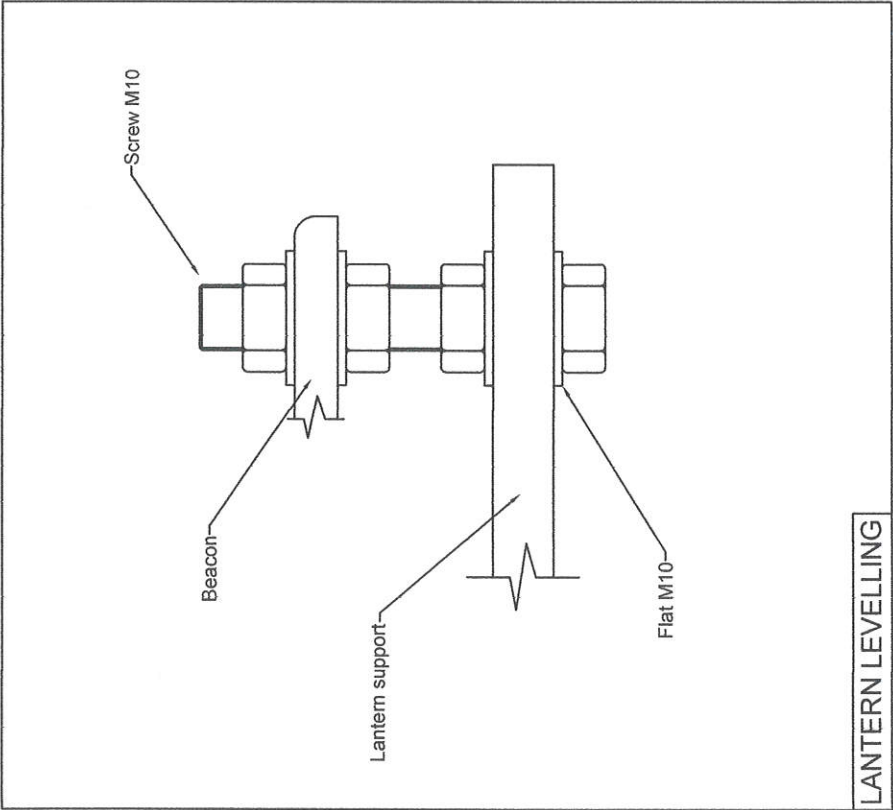
SECTION B-B'



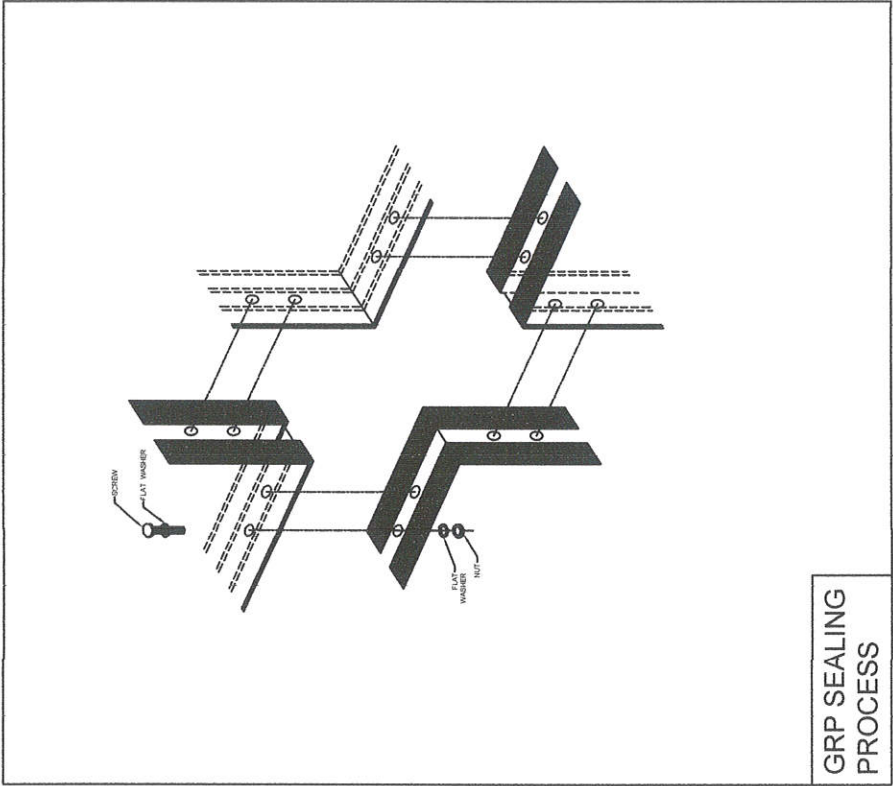
Lantern Support

LANTERN SUPPORT

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 131 25TH ST. PORT ASIA BANGAL		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPIRI, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD		SHEET NO.
PREPARED BY CG P. G. James B. Lloboy POIC CIVIL & STRUCTURAL BRANCH	CHECKED BY CG ENS. SP. GARCIA, C. CORREZ Head of Performance and Evaluation	RECOMMENDED BY CG CDR. RAY. GARNET C. MANALLO Deputy Commander, CGIDS	APPROVED BY CG CAPT. PRUDENCIO C. PATRICIO JR. (GSC) Commander, CGIDS	
REVISION	DATE			



LANTERN LEVELLING



GRP SEALING
PROCESS

 PHILIPPINE COAST GUARD HEADQUARTERS PHILIPPINE COAST GUARD 138 3RD ST. PORT AREA MANILA COAST GUARD INFRASTRUCTURE DEVELOPMENT SERVICE		PROJECT TITLE : CONSTRUCTION OF LIGHT STATION IRAO AS PART OF THE CONSTRUCTION OF THIRTEEN (13) LIGHTHOUSE STATIONS IN THE TEN (10) NORTHERNMOST ISLANDS OF THE COUNTRY LOCATION: IRAO ISLAND, DALUPIRI, CALAYAN, CAGAYAN OWNER: PHILIPPINE COAST GUARD PREPARED BY: <i>Hedgar</i> CG P03, LIAISON & LOGISTICS POIC CIVIL & STRUCTURAL BRANCH REVISION: _____ DATE: _____		CHECKED BY: _____ RECOMMENDED BY: <i>CG CAPT PRUDENCIO JR</i> CG CAPT PRUDENCIO JR (GSC) Commander, CGIDS APPROVED BY: <i>CG CAPT PRUDENCIO JR</i> CG CAPT PRUDENCIO JR (GSC) Commander, CGIDS		SHEET NO.
--	--	--	--	---	--	------------------