
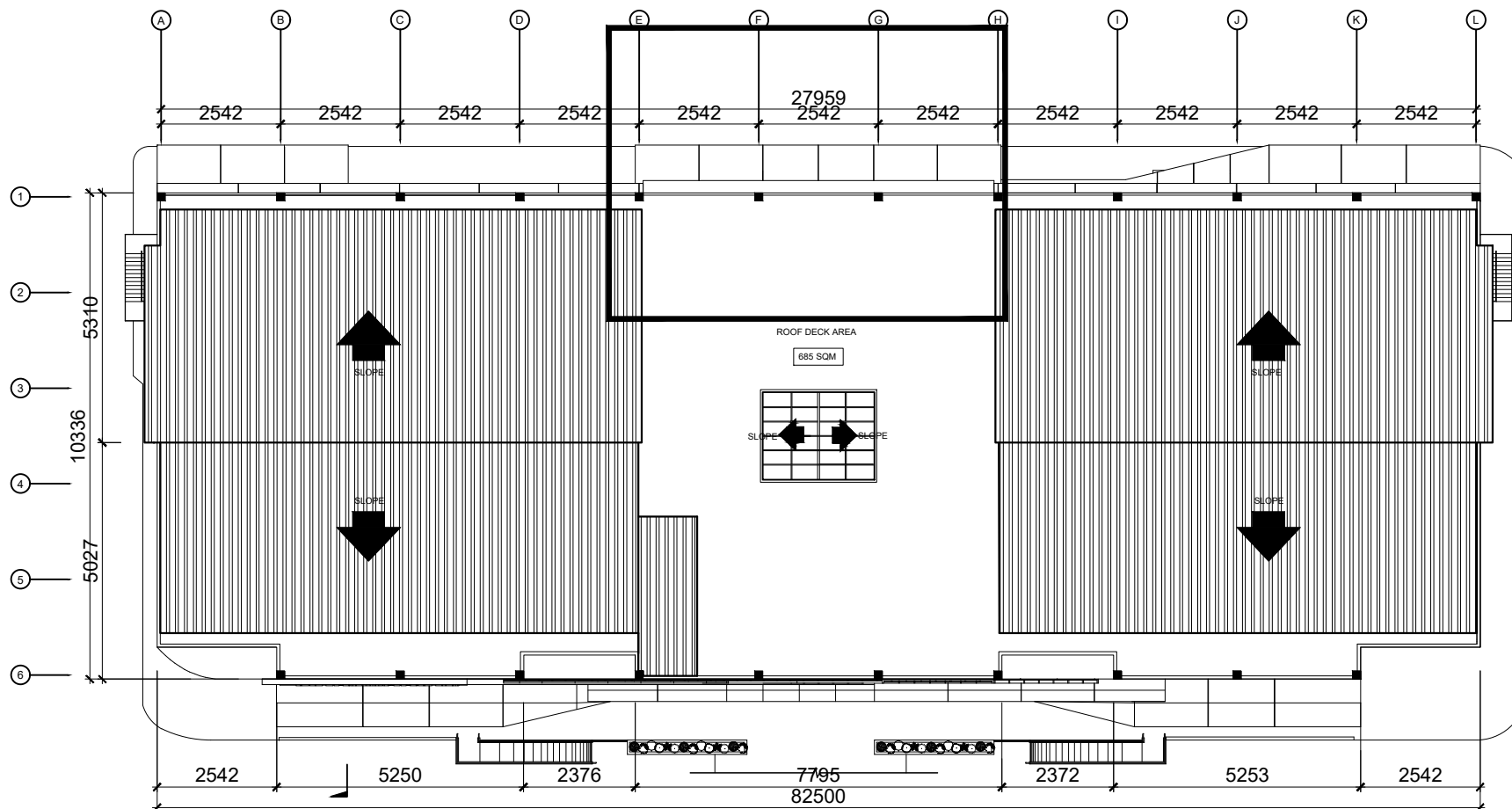


1 SITE DEVELOPMENT
E-02 SCALE NTS

 <p>PORT OF CAGAYAN DE ORO MISAMIS ORIENTAL</p>	TITLE: Maintenance of Passenger Terminal Building Lightning Protection System (MPF-MOC-26-2025)				SHEET NO.
	LOCATION: PORT OF CAGAYAN DE ORO				1
	PREPARED BY: GABRIEL D. MONDONEDO Senior Engineer A	CHECKED BY & SUBMITTED BY: MARC M. AVELLANA Supervising Engineer A	RECOMMENDING APPROVAL: ANTONIO M. TORCINO, JR. Acting ESD Manager	APPROVED: FERNANDO B. MAPALO, JR. Acting Port Manager	4
	PROJECT LOCATION				

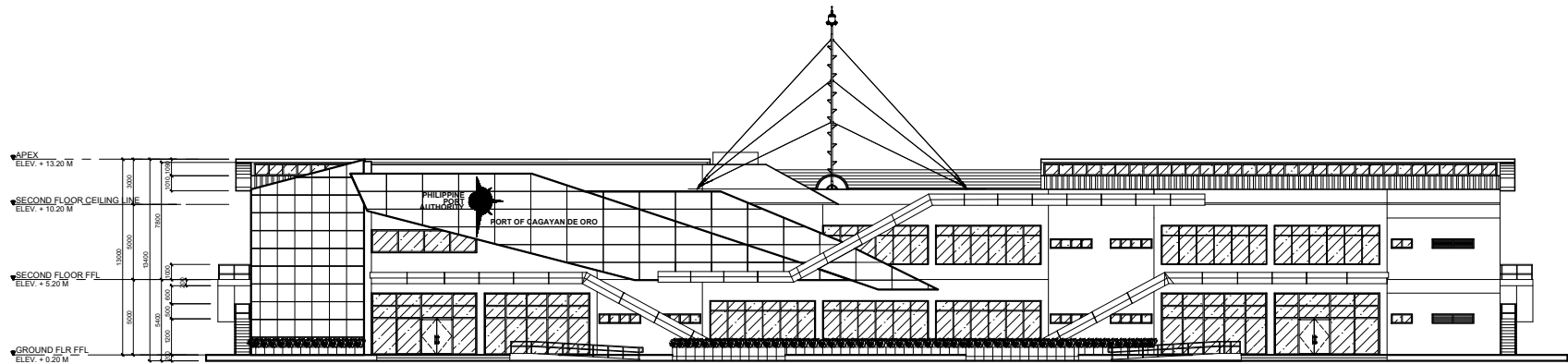


1 ROOF PLAN
A-06 SCALE 1:120 MTS

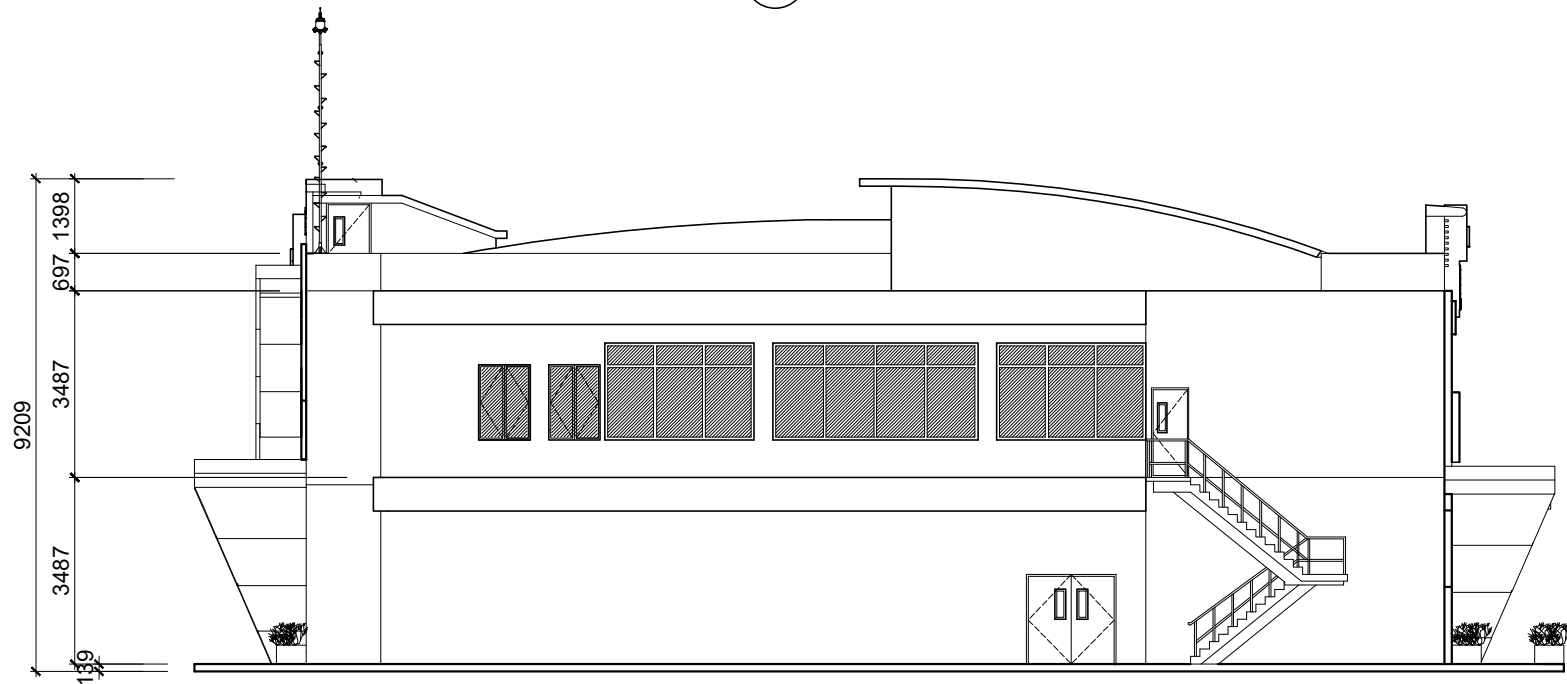


PORT OF
CAGAYAN DE ORO
MISAMIS ORIENTAL

TITLE: Maintenance of Passenger Terminal Building Lightning Protection System (MPF-MOC-26-2025)		SHEET NO. 2 4	
LOCATION: PORT OF CAGAYAN DE ORO		SHEET CONTENTS	
PREPARED BY: GABRIEL D. MONDONEDO Design Engineer A	CHECKED BY & SUBMITTED BY: MARC M. AVELLANA Supervising Engineer A	RECOMMENDING APPROVAL: ANTONIO M. TORCINO, JR. Acting ESD Manager	APPROVED: FERNANDO B. MAPALO, JR. Acting Port Manager
		ROOF PLAN	



FRONT ELEVATION



RIGHT ELEVATION



PORT OF
CAGAYAN DE ORO
MISAMIS ORIENTAL

TITLE:

**Maintenance of Passenger Terminal Building
Lightning Protection System (MPF-MOC-26-2025)**

LOCATION:

PORT OF CAGAYAN DE ORO

PREPARED BY:

GABRIEL D. MONDONEDO
Senior Engineer A

CHECKED BY & SUBMITTED BY:

MARC M. AVELLANA
Supervising Engineer A

RECOMMENDING APPROVAL:

ANTONIO M. TORCINO, JR.
Acting ESD Manager

APPROVED:

FERNANDO B. MAPALO, JR.
Acting Port Manager

SHEET CONTENTS

LIGHTNING PROTECTION
LAYOUT PLAN

SHEET NO.

3
4

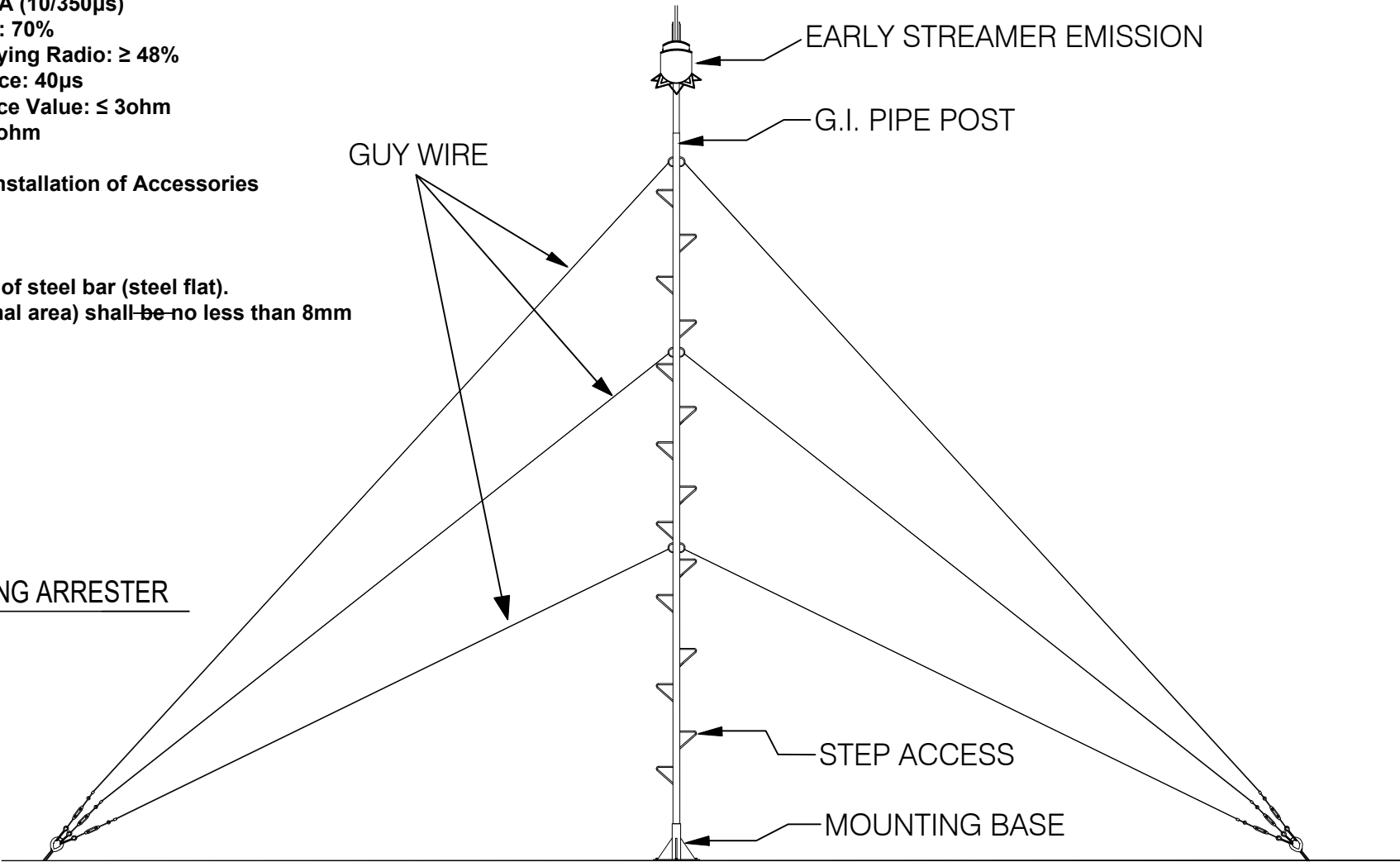
EARLY STREAMER EMISSION (ESE) LIGHTNING ARRESTER

Discharge Capacity: 300KA (10/350μs)
Amplitude Damping Ratio: 70%
Gradient Damping Multiplying Radio: ≥ 48%
Time of Activate in Advance: 40μs
Current Limiting Impedance Value: ≤ 3ohm
Earthing Resistance: ≤ 10ohm
Wind Load: 36m/s
Height(m) 0.4m + 0.9m + Installation of Accessories
Gross Weight(kg): 11kg

Earthing Downlead:
One piece or multi pieces of steel bar (steel flat).
Diameter (or equal sectional area) shall be no less than 8mm



ESE LIGHTNING ARRESTER



PORT OF
CAGAYAN DE ORO
MISAMIS ORIENTAL

TITLE:		Maintenance of Passenger Terminal Building Lightning Protection System (MPF-MOC-26-2025)			SHEET NO.
LOCATION:		PORT OF CAGAYAN DE ORO			4 4
PREPARED BY:		CHECKED BY & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	
GABRIEL D. MONTEONEDO Senior Engineer A		MARC M. AVELLANA Supervising Engineer A	ANTONIO M. TORCINO, JR. Acting ESD Manager	FERNANDO B. MAPALO, JR. Acting Port Manager	
ESE LIGHTNING ARRESTER SPECS AND DETAILS					