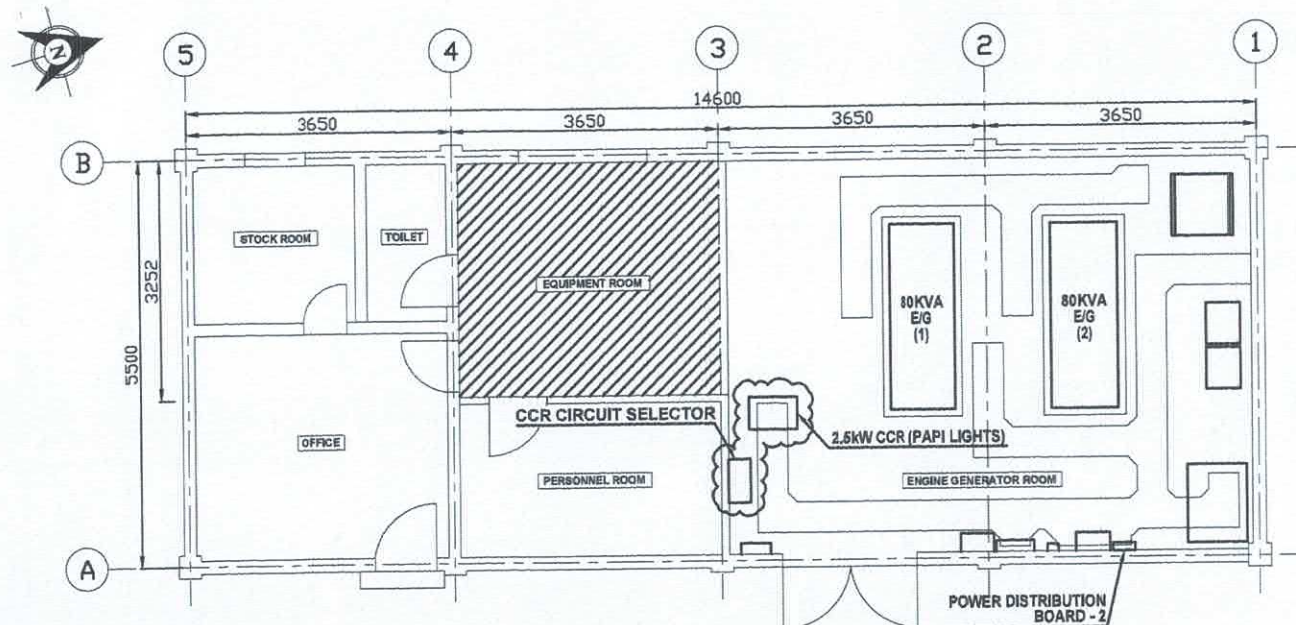
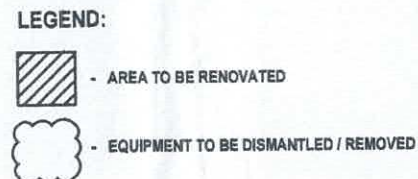


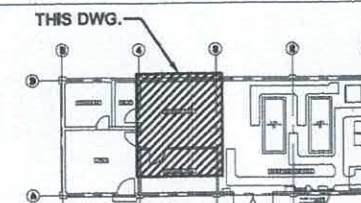


POWER HOUSE LAYOUT
SCALE 1:100

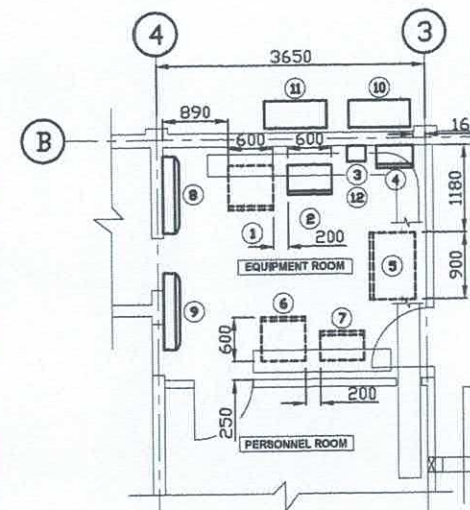


NOTES:

1. TO UPDATE ALL ELECTRICAL EQUIPMENT DIMENSIONS AS PER ACTUAL SIZES.

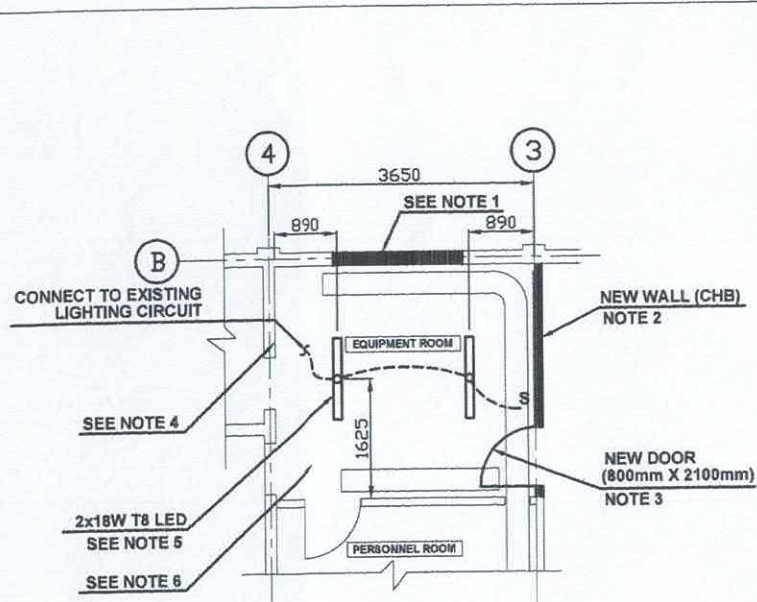


KEY PLAN



EQUIPMENT LAYOUT
SCALE 1:100

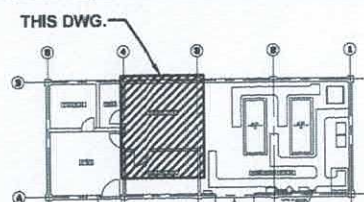
NO.	EQUIPMENT	REMARKS
1	15KVA CCR (RUNWAY EDGE LIGHTS) CKT 1 (W600xD600xH940)	FUTURE
2	5KVA CCR (PAPI LIGHTS) (W600xD400xH940)	
3	JB AC (JUNCTION BOX FOR AIR CONDITION)	
4	CCR CIRCUIT SELECTOR SWITCH (W500xD300xH700)	
5	AFLS PANEL (W900xD620xH1910)	FUTURE
6	15KVA CCR (RUNWAY EDGE LIGHTS) CKT 2 (W600xD600xH940)	FUTURE
7	5KVA CCR (TAXIWAY LIGHTS) (W600xD400xH940)	FUTURE
8	2.5HP AIRCON (FCU-1) (W1040xD220xH325)	
9	2.5HP AIRCON (FCU-2) (W1040xD220xH325)	
10	2.5HP AIRCON (ACCU-1) (W845xD365xH700)	
11	2.5HP AIRCON (ACCU-2) (W845xD365xH700)	
12	20AT CIRCUIT BREAKER WITH ENCLOSURE	



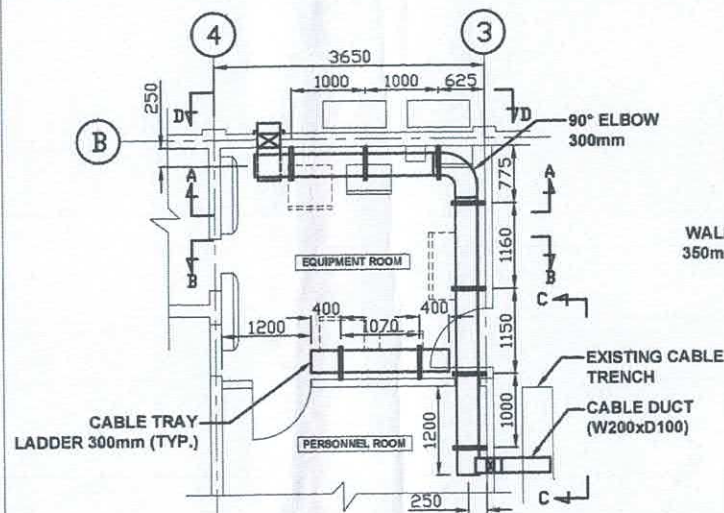
EQUIPMENT ROOM LAYOUT
SCALE 1:100

NOTES:

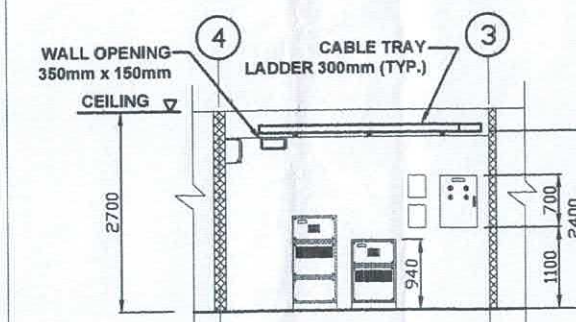
1. EXISTING WINDOW SHALL BE COVERED WITH CHB, INCLUSIVE OF PLASTERING AND FRESH COAT OF PAINT.
2. INCLUSIVE OF PLASTERING AND FRESH COAT OF PAINT.
3. FIRE RATED STEEL DOOR SAME AS EXISTING.
4. EQUIPMENT ROOM WALLS SHALL BE PAINTED WITH FRESH COAT OF PAINT.
5. WEATHERPROOF / POLYCARBONATE HOUSING, DOUBLE ENDED WIRING CONNECTION. SURFACE MOUNTED
6. FLOOR SURFACE SHALL BE COATED WITH EPOXY PAINT.



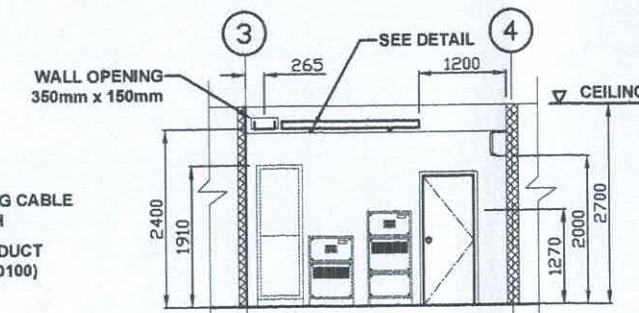
KEY PLAN



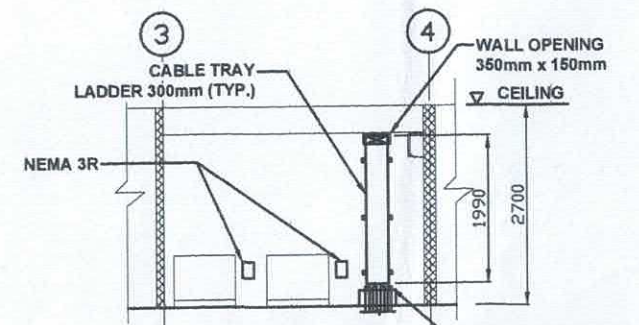
CABLE TRAY LAYOUT
SCALE 1:100



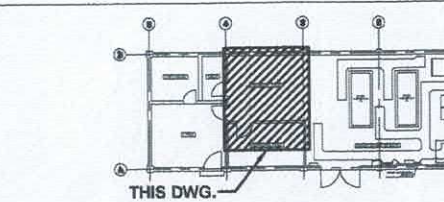
SECTION A-A
SCALE 1:100



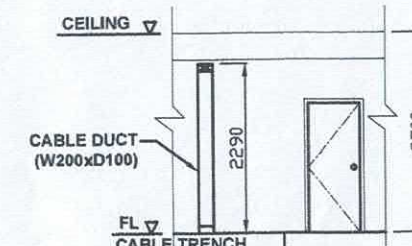
SECTION B-B
SCALE 1:100



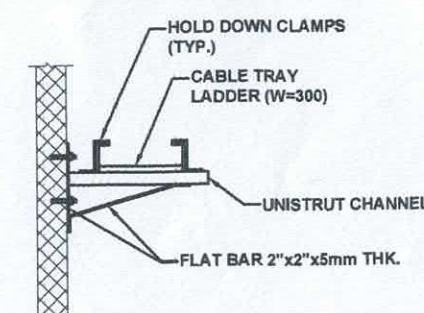
SECTION D-D
SCALE 1:100



KEY PLAN



SECTION C-C
SCALE 1:100



DETAIL
SCALE NTS

CIVIL AVIATION AUTHORITY
OF THE PHILIPPINES



AIR NAVIGATION SERVICE

TITLE:

**PURCHASE/INSTALLATION
OF PAPI SYSTEMS AT
SAN JOSE AIRPORT**

PROJ. CODE: 10604010 2511

DESIGNED BY:

WILMAR D. LABITAN
ANFE I, ANPPDD

RAPHAEL RUSSEL B. L. FERNANDO
CNSSO II, ANPPDD

CHECKED BY:

RODERICK D. VEGA
Division Chief III, ANPPDD

REVIEWED BY:

JOSKE R. SUGUI
Acting Department Manager, ANCMD

SUBMITTED BY:

LEANDRO R. VARQUEZ
Department Manager III, ANPPDD

RECOMMENDING APPROVAL:

GARY M. JADIE
Acting Chief, Air Navigation Service

APPROVED BY:

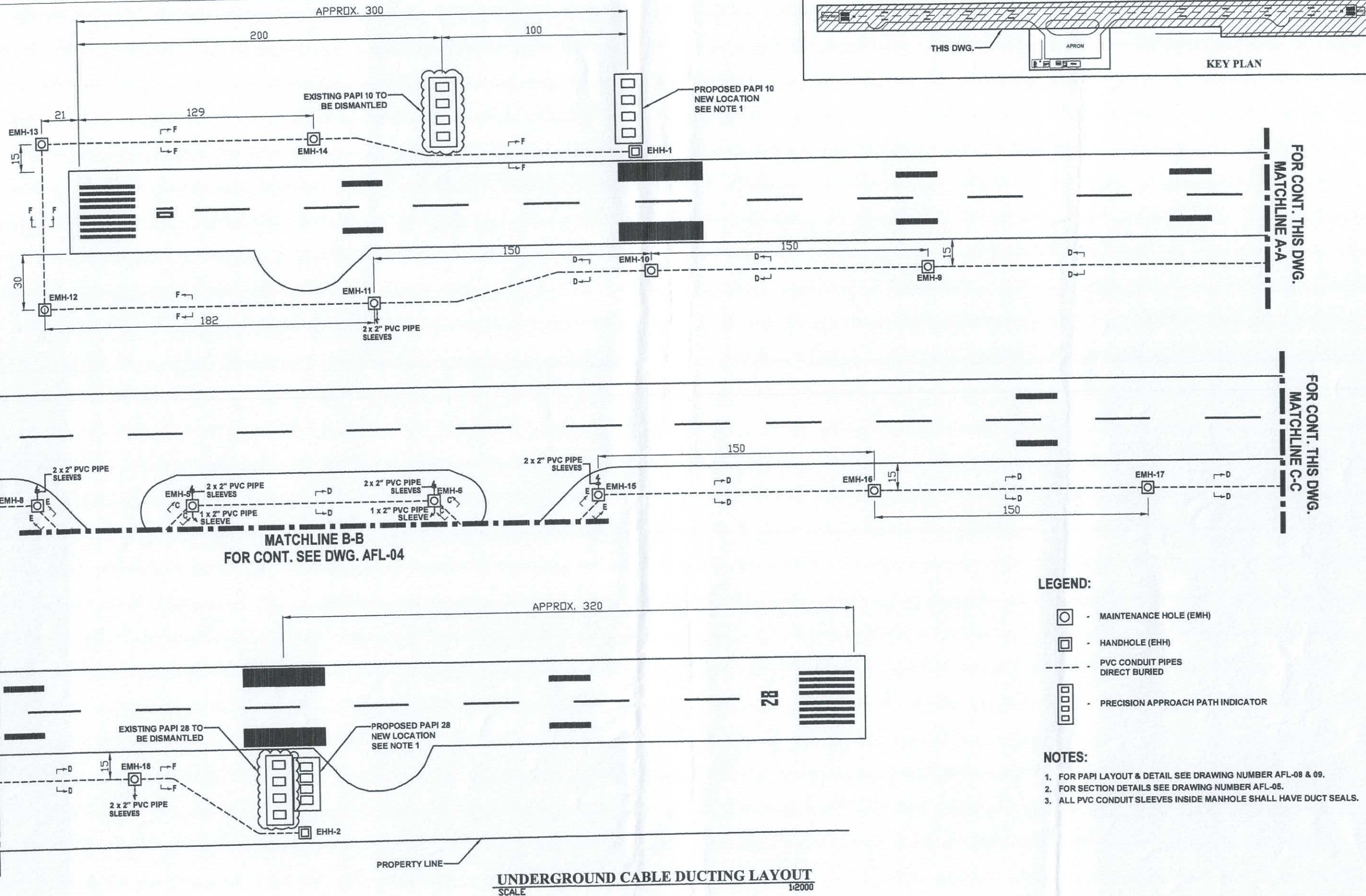
CAPT. MANUEL ANTONIO L. TAMAYO
Director General, CAAP

SHEET NO.:

AFL-01 / 11

DATE:

02 AUG 2024

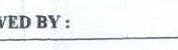


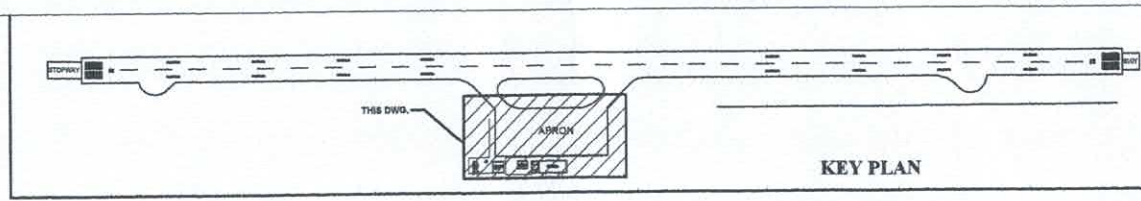
LEGEND:

-  - MAINTENANCE HOLE (EMH)
-  - HANDHOLE (EHH)
-  - PVC CONDUIT PIPES
DIRECT BURIED
-  - PRECISION APPROACH PATH INDICATOR

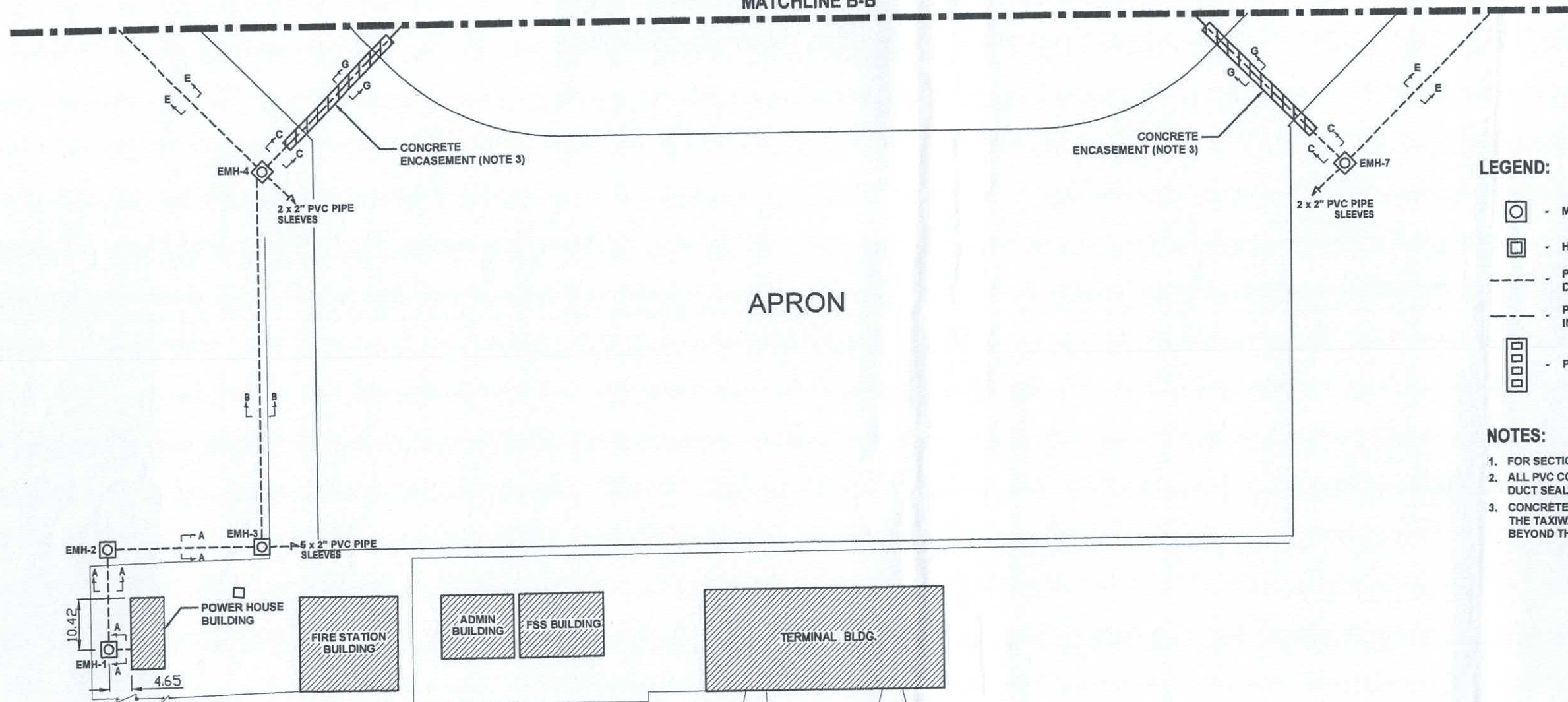
NOTES:

1. FOR PAPI LAYOUT & DETAIL SEE DRAWING NUMBER AFL-08 & 09.
2. FOR SECTION DETAILS SEE DRAWING NUMBER AFL-05.
3. ALL PVC CONDUIT SLEEVES INSIDE MANHOLE SHALL HAVE DUCT SEALS.

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES	TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :	
 AIR NAVIGATION SERVICE	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10604010 2511	 WILMAR D. LABITAN ANFE I, ANPPDD	 RAPHAEL RUSSEL II L. FERNANDO CNSSO II, ANPPDD	 RODERICK D. VEGA Division Chief III, ANPPDD	 JOSUE R. SUGUI Acting Department Manager, ANQMD	 LEANDRO E. VARQUEZ Department Manager III, ANPPDD	 GARY M. JADIE Acting Chief, Air Navigation Service	 CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP	AFL-03 / 1 DATE: 02 AUG 2024



FOR CONT. SEE DWG. AFL-03
MATCHLINE B-B



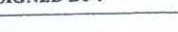
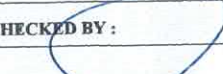
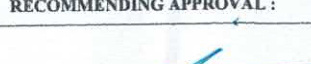
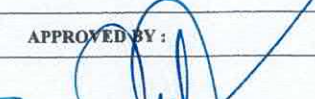
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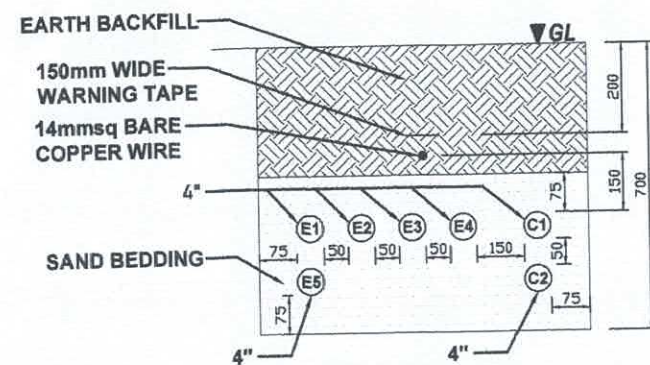
- MAINTENANCE HOLE (EMH)
- HANDHOLE (EHH)
- PVC CONDUIT PIPES DIRECT BURIED
- PVC CONDUIT PIPES IN CONCRETE ENCASEMENT
- PRECISION APPROACH PATH INDICATOR

NOTES:

1. FOR SECTION DETAILS SEE DRAWING NUMBER AFL-05.
2. ALL PVC CONDUIT SLEEVES INSIDE MANHOLE SHALL HAVE DUCT SEALS.
3. CONCRETE ENCASEMENT SHALL BE PERPENDICULAR TO THE TAXIWAY PAVEMENT AND SHALL EXTEND 2 METERS BEYOND THE EDGE OF THE TAXIWAY PAVEMENT.

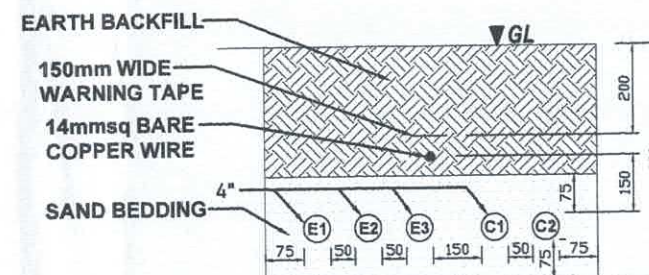
UNDERGROUND CABLE DUCTING LAYOUT
SCALE 1:1000

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES	TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :	
 AIR NAVIGATION SERVICE	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10604010 2511	 WILMAR D. LABITAN ANFEY, ANPPDD	 RAPHAEL RUSSEL II L. FERNANDO CNSSO II, ANPPDD	 RODERICK D. VEGA Division Chief III, ANPPDD	 JOSUE R. SUGUI Acting Department Manager, ANQMD	 LEANDRO R. VARQUEZ Department Manager III, ANPPDD	 GARY M. JADIE Acting Chief, Air Navigation Service	 CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP	AFL-04 / 11 DATE: 02 AUG 2024



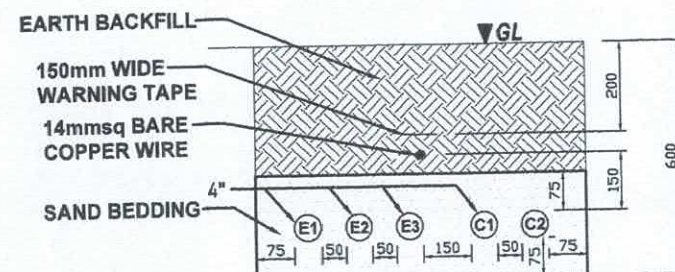
SECTION A-A
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	APRON FLOODLIGHT 1	FUTURE
E2	APRON FLOODLIGHT 2	FUTURE
E3	REDL CKT1	FUTURE
E4	REDL CKT2	FUTURE
E5	TEDL	FUTURE
E6	PAPI 10 & 28	4-1C x 8mmsq 5kV + 2 x 14mmsq
E7	SPARE	
C1	MET 10 & 28	FUTURE
C2	SPARE	



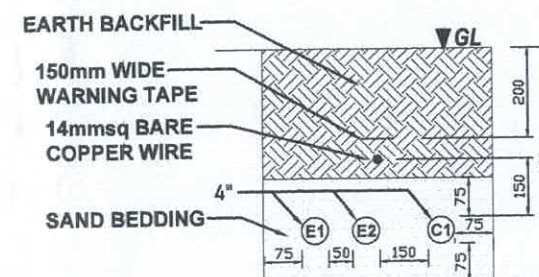
SECTION E-E
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	REDL CKT1	FUTURE
E2	REDL CKT2	FUTURE
E3	PAPI 10 or 28	2-1C x 8mmsq 5kV + 1 x 14mmsq
C1	SPARE	
C2	MET 10 or 28	FUTURE
C3	SPARE	



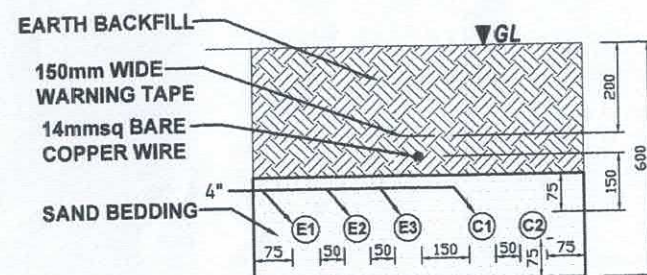
SECTION B-B
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	REDL CKT1	FUTURE
E2	REDL CKT2	FUTURE
E3	TEDL	FUTURE
E4	PAPI 10 & 28	4-1C x 8mmsq 5kV + 2 x 14mmsq
E5	SPARE	
C1	MET 10 & 28	FUTURE
C2	SPARE	



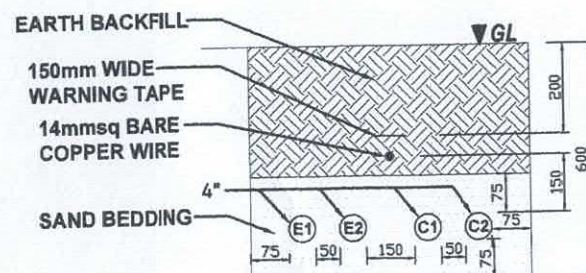
SECTION F-F
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	SPARE	
E2	PAPI 10 or 28	2-1C x 8mmsq 5kV + 1 x 14mmsq
C1	SPARE	



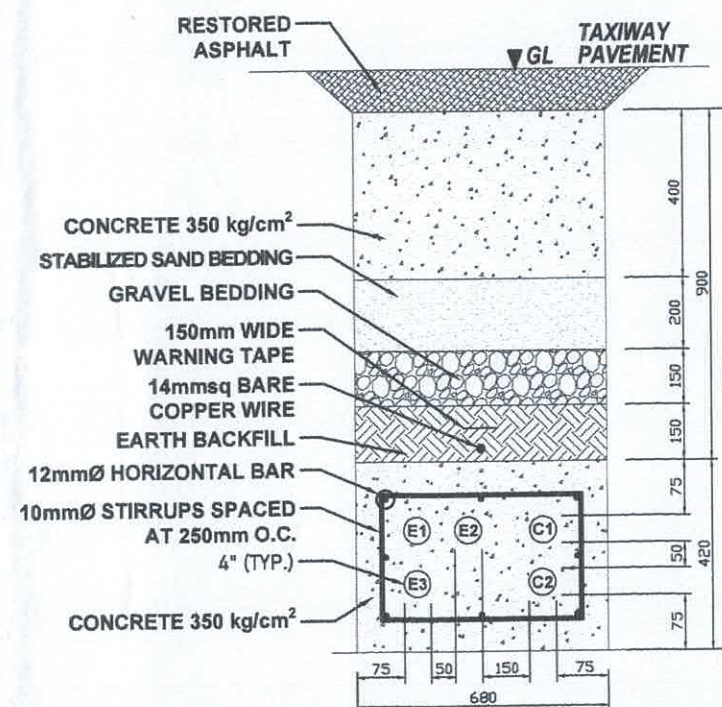
SECTION C-C
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	REDL CKT1	FUTURE
E2	REDL CKT2	FUTURE
E3	TEDL	FUTURE
E4	PAPI 28	2-1C x 8mmsq 5kV + 1 x 14mmsq
E5	SPARE	
C1	MET 28	FUTURE
C2	SPARE	



SECTION D-D
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	SPARE	
E2	PAPI 10 or 28	2-1C x 8mmsq 5kV + 1 x 14mmsq
C1	SPARE	
C2	MET 10 or 28	FUTURE



SECTION G-G (NOTE 4)
SCALE NTS

PVC	DESCRIPTION	TYPE OF CABLE
E1	REDL CKT1	FUTURE
E2	REDL CKT2	FUTURE
E3	TEDL	FUTURE
E4	PAPI 28	2-1C x 8mmsq 5kV + 1 x 14mmsq
E5	SPARE	
C1	MET 28	FUTURE
C2	SPARE	

NOTES:

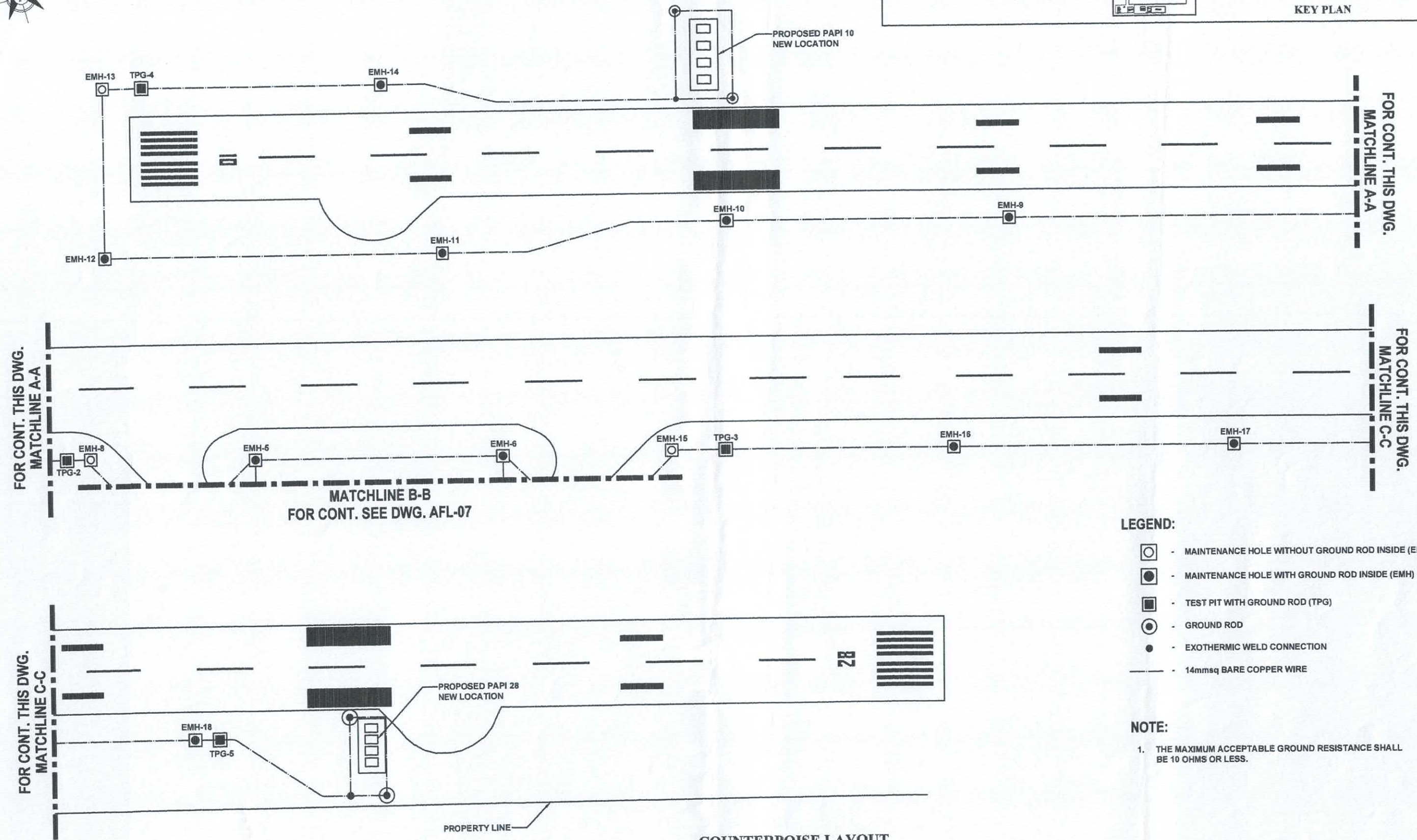
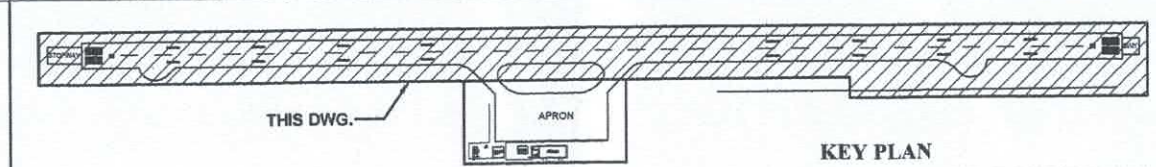
1. ALL UNDERGROUND PVC CONDUITS SHALL BE SCHEDULE 40.
2. ALL PVC CONDUITS SHALL BE INSTALLED WITH A MINIMUM BENDS AND OFFSETS.
3. THE USE OF PVC CONDUIT SPACERS IS REQUIRED.
4. CONCRETE ENCASUREMENT SHALL EXTEND 2 METERS BEYOND THE EDGE OF THE TAXIWAY PAVEMENT.
5. ALL PVC CONDUIT SLEEVES INSIDE MAINTENANCE HOLE SHALL HAVE DUCT SEALS.

UNDERGROUND CABLE DUCTING SECTIONS

SCALE

NTS

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES	TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :
	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT	WILMAR D. LABITAN ANFE I, ANPPDD	RAPHAEL RUSSELL L. FERNANDO CNSSO II, ANPPDD	RODERICK D. VEGA Division Chief III, ANPPDD	JOSUE R. SUGUI Acting Department Manager, ANCMD	LEANDRO R. VARQUEZ Department Manager III, ANPPDD	GARY M. JADIE Acting Chief, Air Navigation Service	CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP
AIR NAVIGATION SERVICE	PROJ. CODE: 10604010 2511							AFL-05 / 11 DATE: 02 AUG 2024

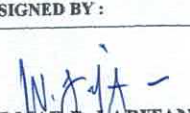
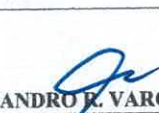


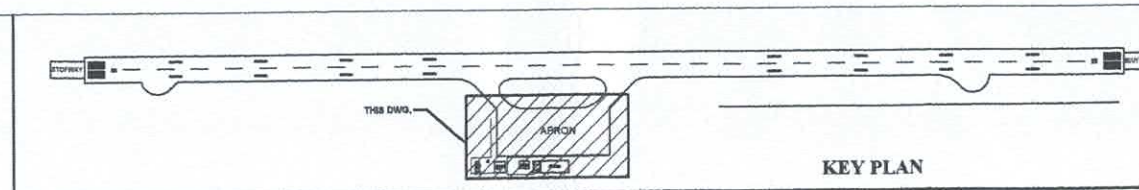
- LEGEND:**
- - MAINTENANCE HOLE WITHOUT GROUND ROD INSIDE (EMH)
 - - MAINTENANCE HOLE WITH GROUND ROD INSIDE (EMH)
 - - TEST PIT WITH GROUND ROD (TPG)
 - ⦿ - GROUND ROD
 - - EXOTHERMIC WELD CONNECTION
 - - 14mmsq BARE COPPER WIRE

NOTE:

1. THE MAXIMUM ACCEPTABLE GROUND RESISTANCE SHALL BE 10 OHMS OR LESS.

COUNTERPOISE LAYOUT
SCALE 1:2000

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES  AIR NAVIGATION SERVICE	TITLE : PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10804010 2511	DESIGNED BY :  WILMAR D. LABITAN ANFE I, ANPPDD  RAPHAEL RUSSEL L. FERNANDO CNSSO II, ANPPDD	CHECKED BY :  RODERICK D. VEGA Division Chief III, ANPPDD	REVIEWED BY :  JOSUE R. SUQUI Acting Department Manager, ANQMD	SUBMITTED BY :  LEANDRO R. VARQUEZ Department Manager III, ANPPDD	RECOMMENDING APPROVAL :  GARY M. JADIE Acting Chief, Air Navigation Service	APPROVED BY :  CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP	SHEET NO. : AFL-06 / 11 DATE: 02 AUG 2024
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FOR CONT. SEE DWG. AFL-06
MATCHLINE B-B

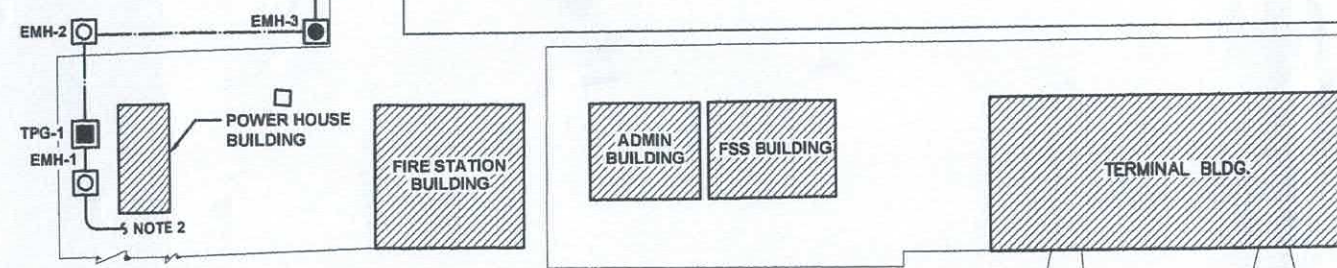
APRON

LEGEND:

- MAINTENANCE HOLE WITHOUT GROUND ROD INSIDE (EMH)
- MAINTENANCE HOLE WITH GROUND ROD INSIDE (EMH)
- TEST PIT WITH GROUND ROD (TPG)
- GROUND ROD
- EXOTHERMIC WELD CONNECTION
- 14mmsq BARE COPPER WIRE

NOTE:

1. THE MAXIMUM ACCEPTABLE GROUND RESISTANCE SHALL BE 10 OHMS OR LESS.
2. TO BE CONNECTED TO EXISTING GROUNDING GRID.



COUNTERPOISE LAYOUT
SCALE 1:1000

CIVIL AVIATION AUTHORITY
OF THE PHILIPPINES



AIR NAVIGATION SERVICE

TITLE :

PURCHASE/INSTALLATION
OF PAPI SYSTEMS AT
SAN JOSE AIRPORT

PROJ. CODE: 10604010 2511

DESIGNED BY :

WILMAR D. LABITAN
ANFI, ANPPDD

RAPHAEL RUSSEL II L. FERNANDO
CNSSO II, ANPPDD

CHECKED BY :

RODERICK D. VEGA
Division Chief III, ANPPDD

REVIEWED BY :

JOSUE R. SUGUI
Acting Department Manager, ANQMD

SUBMITTED BY :

LEANDRO R. VARQUEZ
Department Manager III, ANPPDD

RECOMMENDING APPROVAL :

GARY M. JADIE
Acting Chief, Air Navigation Service

APPROVED BY :

CAPT. MANUEL ANTONIO L. TAMAYO
Director General, CAAP

SHEET NO. :

AFL-07 / 11

DATE:

02 AUG 2024

DETAIL A

NOTE:

1. ALL PVC CONDUIT SLEEVES SHALL HAVE DUCT SEALS.

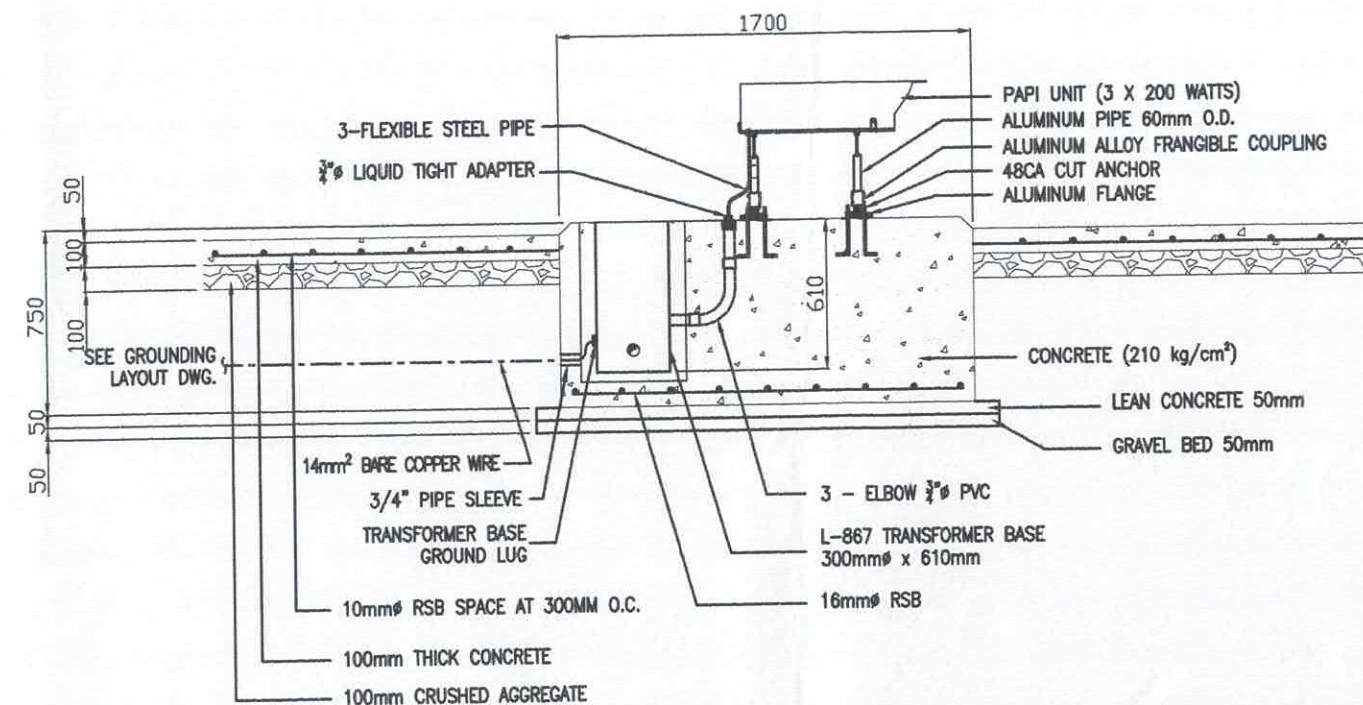
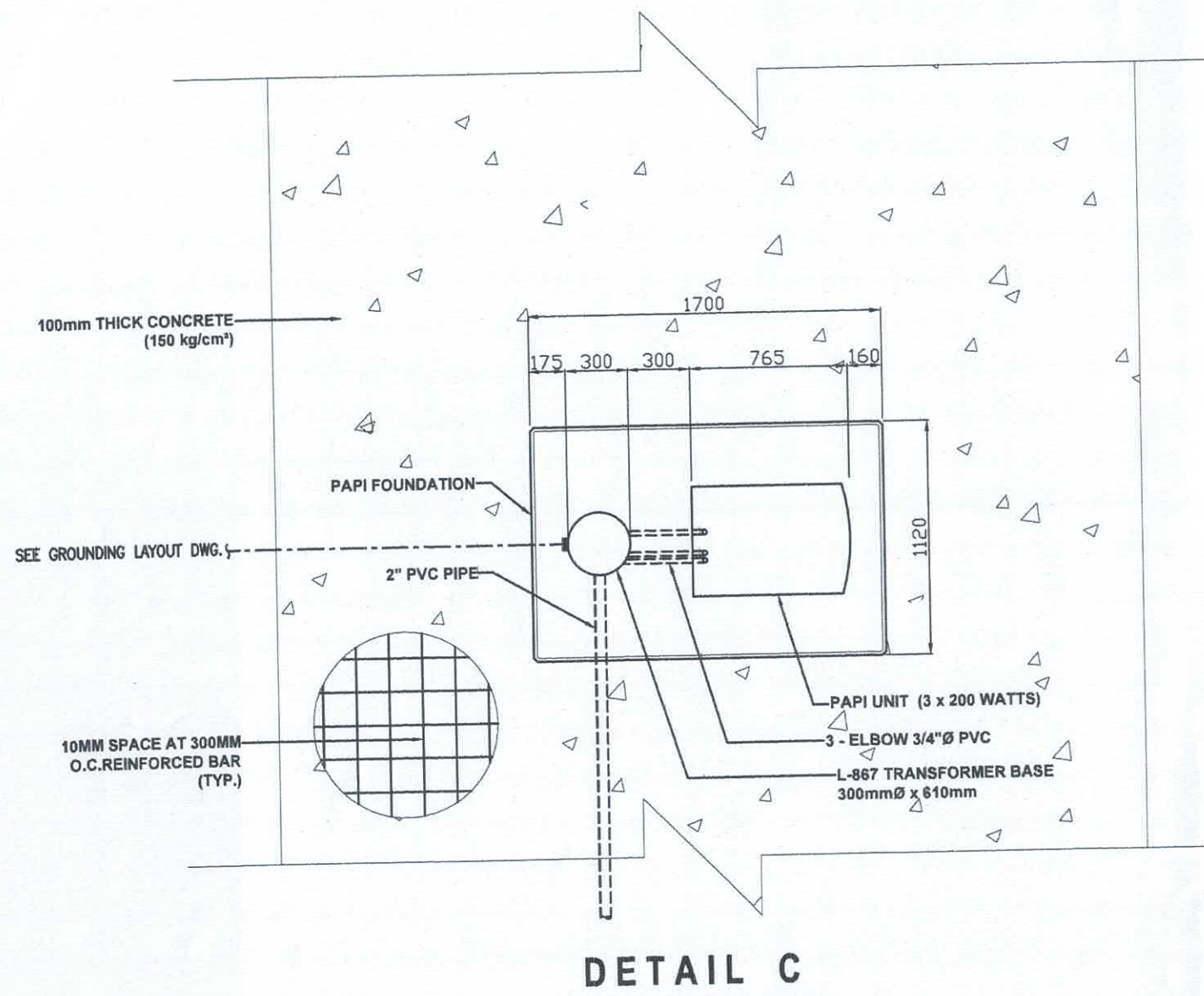
DETAIL B

PRECISION APPROACH PATH INDICATOR LAYOUT PLAN

SCALE

NTS

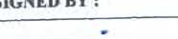
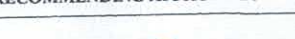
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES	TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :	
 AIR NAVIGATION SERVICE	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10604010 2511	 WILMAR D. LABITAN ANPE I, ANPPDD	 RAFAEL RUSSEL H. L. FERNANDO CNSSO II, ANPPDD	 RODERICK D. VEGA Division Chief III, ANPPDD	 JOSE E. SUGUI Acting Department Manager, ANQMD	 LEANDRO E. VARQUEZ Department Manager III, ANPPDD	 GARY M. JADIE Acting Chief, Air Navigation Service	 CAPT. MAÑAY ANTONIO L. TAMAYO Director General, CAAP	AFL-08 / 1 DATE: 02 AUG 2024



SIDE ELEVATION

NOTE:
1. ALL PVC CONDUIT SLEEVES SHALL HAVE DUCT SEALS.

PRECISION APPROACH PATH INDICATOR DETAIL
SCALE NTS

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES		TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :
 AIR NAVIGATION SERVICE	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10604010 2511	 WILMAR D. LABITAN ANFE I, ANPPDD	 RAPHAEL RUSSEL II A. FERNANDO CNSSO II, ANPPDD	 RODERICK D. VEGA Division Chief III, ANPPDD	 JOSKE R. SUGUI Acting Department Manager, ANQMD	 LEANDRO R. VARQUEZ Department Manager III, ANPPDD	 GARY M. JABIE Acting Chief, Air Navigation Service	 CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP	AFL-09 / 11
									DATE:
									02 AUG 2024

PLAN

SECTION

DETAIL OF MAINTENANCE HOLE

MAINTENANCE HOLE COVER LAYOUT

SCALE

17.5

PLAN

SECTION

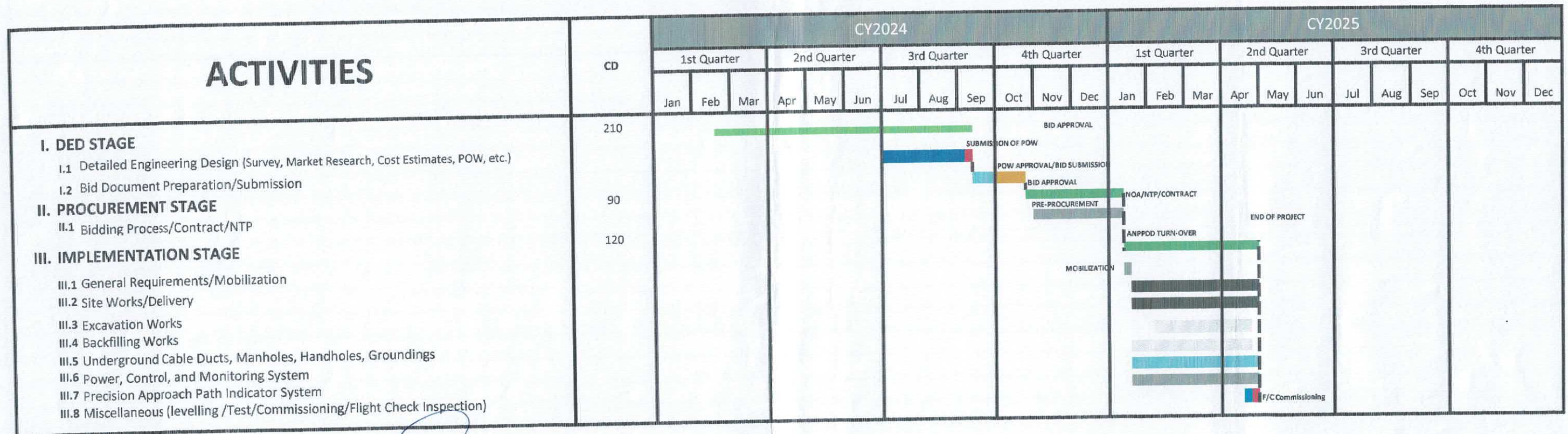
DETAIL OF HANDHOLE

SCALE

120

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES	TITLE :	DESIGNED BY :	CHECKED BY :	REVIEWED BY :	SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	SHEET NO. :	
 AIR NAVIGATION SERVICE	PURCHASE/INSTALLATION OF PAPI SYSTEMS AT SAN JOSE AIRPORT PROJ. CODE: 10604010 2511	 WILMAR D. LABITAN ANFE I, ANPPDD	 RAPHAEL RUSSEL II L. FERNANDO CNSO II, ANPPDD	 RODERICK D. VEGA Division Chief III, ANPPDD	 JOSIE R. SUGUI Acting Department Manager, ANQMD	 LEANDRO R. VARQUEZ Department Manager III, ANPPDD	 GARY M. JADIE Acting Chief, Air Navigation Service	 CAPT. MANUEL ANTONIO L. TAMAYO Director General, CAAP	AFL-10 / 11 DATE: 02 AUG 2024

SCHEDULE OF ACTIVITIES FOR THE PROJECT "PURCHASE/INSTALLATION OF PAPI SYSTEM AT SAN JOSE AIRPORT (COB MYP 2024-25)



PREPARED BY: ANPPDD/ELECTRO-MECH DIVISION