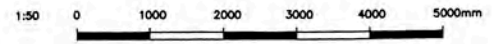


LIGHTING DISTRIBUTION LAYOUT
 MANAGEMENT STAFF HOUSING A-9001
 TYPICAL FOR BLOCK H1, H2, H3, H4, H5, H6, H7 AND H8
 SCALE : 1/50

NOTA/NOTE:

- LOS CIRCUITOS DE ALUMBRADO Y TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm2 (FASES), 4mm2 (NEUTRO) Y 4mm2 (TIERRA). INSALMIENTO THW. LIGHTING CIRCUITS AND OUTLETS WILL HAVE A SIZE MINIMUM OF 4mm2 (PHASE), 4mm2 (NEUTRAL) AND 4mm2 (GROUND), INSULATION THW.
 - EL CALCULO PARA EL NUMERO DE LUMINARIAS Y TOMACORRIENTES POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010. BRANCH CIRCUIT LOAD CALCULATION FOR RECEPTACLE OUTLETS AND LIGHTING FIXTURE SHOW IN 157883-610-XS-CC-0010.
 - LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026. THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026.
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002. THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0002.
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.
 - LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION LIGHTING FIXTURE WILL THIS PRESENTATION
- LIGHTING FIXTURE
 ○ INDICATES SWITCH
 ○ INDICATES LIGHTING FIXTURE
 L SWITCH
- THE EQUIPMENT LIGHTING FOR THE BATHROOM MIRROR WILL BE THE LUMINAIRE BLP WITH 01 COMPACT FLUORESCENT LAMP OF 18W. EL EQUIPO DE ILUMINACION PARA EL ESPEJO DEL BAÑO SERA LA LUMINARIA BLP CON 01 LAMPARA FLUORESCENTE COMPACTA DE 18W



LEYENDA / LEGEND			
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION	CAJAS / BOX(mm)	ALTURA / HEIGHT(m)
○	ARTEFACTO RES-A/2'x2'/STLD 18 W/EE DE JOSFEL. PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES RECTAS TLD 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
○	FLUORESCENT LIGHTING FIXTURE RES-A / 2'X2' / STLD 18 W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILINGS
○	ARTEFACTO RES-A/1'x4'/2TLD 36 W/EE DE JOSFEL. PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
○	FLUORESCENT LIGHTING FIXTURE RES-A / 1'X4' / 2TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILINGS
○	LUMINARIA ALPHA SPOT H-205/2x26WTC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 28W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
○	LUMINARIES ALPHA SPOT H-205/2x26WTC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 28W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILINGS
○	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1#, CON ALTO F.D.P, IP65, MODELO RSP DE JOSFEL.	---	2.20
○	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1#, WITH HIGH-FDP, IP65 MODEL OF RSP JOSFEL.	---	2.20
○	TABLERO ELECTRICO EMPOTRADO	---	1.80 BORDE SUPERIOR
○	PANELBOARD EMBEDDED.	---	1.80 TOP
○	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 28W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 28W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	2.20m
○	EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 28W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 28W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTAGONAL 100x40	2.20m
○	LUMINARIA BPL-262/1TC-D18/OPALINO/BL, PARA ADOSAR EN PARED CON DIFUSOR DE ACRILICO OPALINO BLANCO, EQUIPO CON BALASTO ELECTRONICO, CON 01 LAMPARA FLUORESCENTE COMPACTA 18W, 220VAC. MARCA JOSFEL.	OCTOGONAL 100x40	2.20m
○	LIGHTING FIXTURE BPL-262/1TC-D18/OPALINO/BL, ATTACHED TO WALL WITH ACRYLIC OPALINE DIFUSOR WHITE TEAM, WITH ELECTRONIC BALLAST WITH 01 COMPACT FLUORESCENT LAMP OF 18W, 220VAC. JOSFEL.	OCTAGONAL 100x40	2.20m
○	CAJA CUADRADA METALICA 100x100x60mm, EMPOTRADA EN PARED	CUADRADA	TECHO/PARED
○	SQUARE METAL BOX 100x100x60mm, EMBEDDED IN WALL.	SQUARE	ROOF/WALL
○	SALIDA DE LUZ EN PARED TIPO SOCKET, CON 01 LAMPARA FLUORESCENTE COMPACTA DE 18W, 200VAC, 1#.	RECTANGULAR 100x55x40	2.20m
○	WALL MOUNTED LIGHT FIXTURE WITH 01 OF 18W COMPACT FLORESCENT LAMP, 200VAC, 1#.	RECTANGULAR 100x55x40	2.20m
○	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIGAS PLANAS Y REDONDAS CON TOMA A TIERRA, 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIE MAGIC, MARCA BITICINO (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
○	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MAGIC SERIES, BITICINO BRAND (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
—	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
—	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
—	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
—	CONDUCTO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED.	---	---
—	Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
•S	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•S	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•S _a	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•S _a	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
•S _a	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•S _a	01 3-WAY SWITCH 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
•2S _{a,b}	02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30

157883-610-XS-DR-1131-01-02-0000 08/17/10 08:00

NO.	ISSUED FOR CONSTRUCTION	DESCRIPTION	DATE	BY	APPROVED	REVISION
1		157883-610-XS-DR-2337-11				ELECTRICAL INSTALLATION DETAILS AND NOTES
2		157883-610-XS-DR-2337-09				ELECTRICAL INSTALLATION DETAILS AND NOTES
3		157883-610-XS-DR-2337-08				POB ELECTRICAL INSTALLATIONS DETAILS AN NOTES - SHEET 2 OF 2
4		157883-610-XS-DR-2337-06				ELECTRICAL INSTALLATION DETAILS AND NOTES
5		157883-610-XS-DR-2035-02				PACKAGE SUBSTATION ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9001 AND DP-9002
6		157883-610-XS-DR-1131-02				POWER AND RECEPTACLE OUTLETS LAYOUT - MANAGEMENT STAFF HOUSING A-9001



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 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)

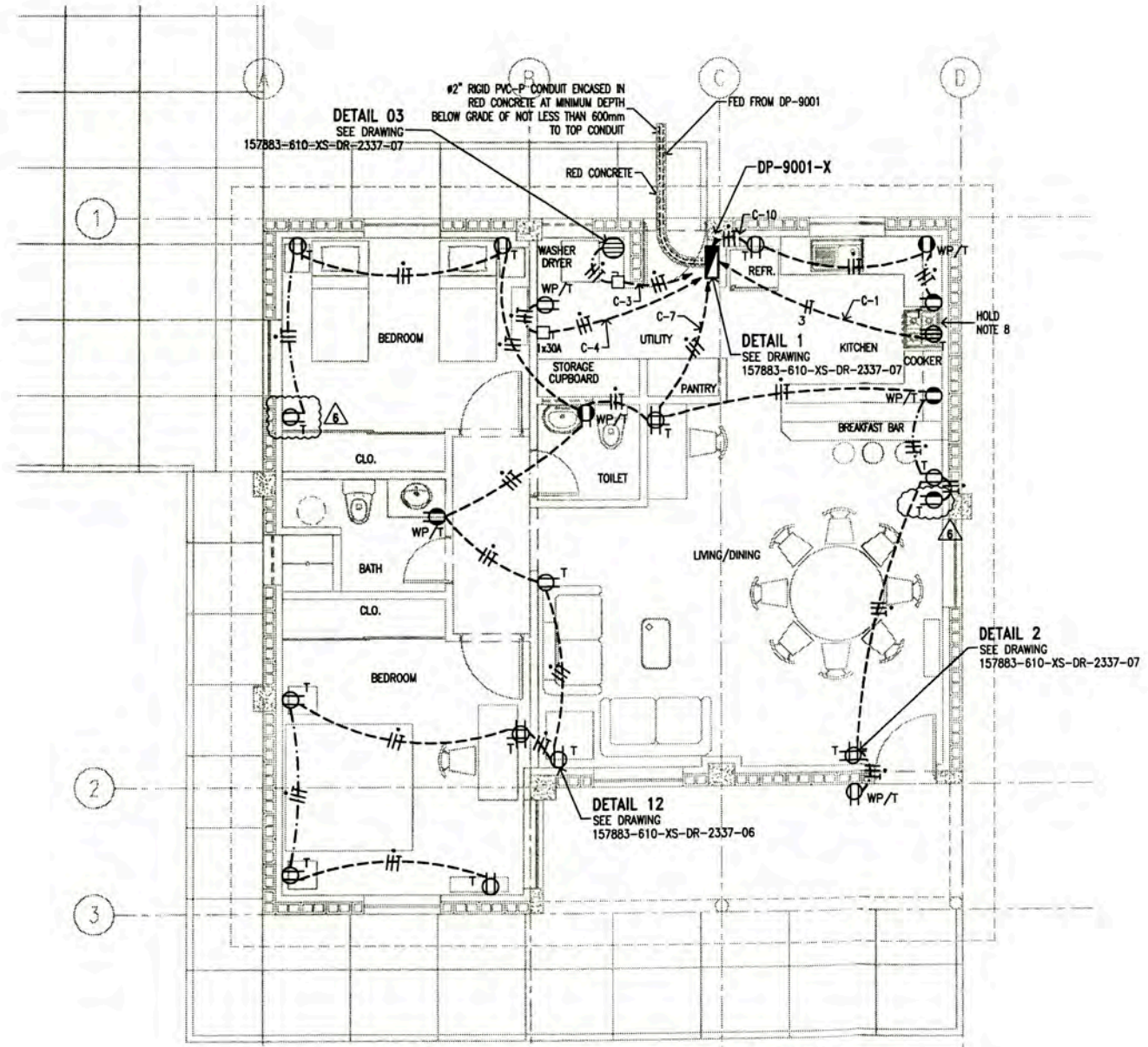
PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS

PROJECT: PERU LNG EXPORT PROJECT
 LOCATION: PAMPA MELCHORITA
 SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)

DRAWING NO: 157883-610-XS-DR-1131-01
 DRAWING TITLE: LIGHTING DISTRIBUTION LAYOUT
 SCALE: 1:50
 DATE: 01/07/08

PERMANENT COMMUNITY BUILDING
 LIGHTING DISTRIBUTION LAYOUT
 MANAGEMENT STAFF HOUSING A-9001

DESIGNED BY: WPA	DESIGNED BY: COU	REVISION BY: FTA	APPROVED BY: JMG	DRAWING NO: 157883-610-XS-DR-1131-01
DATE: 01/07/08	PROJECT NO: 1618	REVISION: 0		



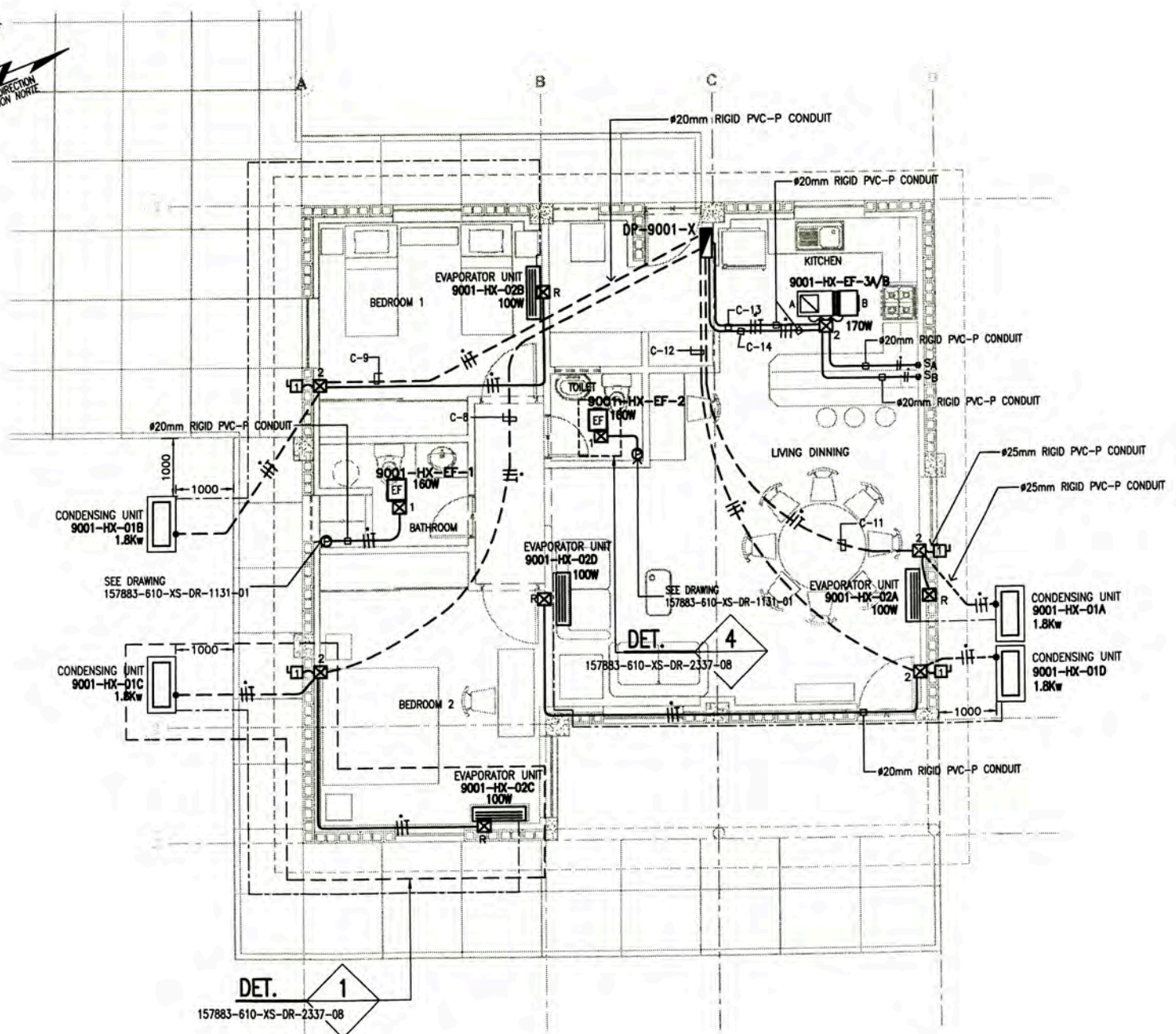
POWER AND RECEPTACLE OUTLETS LAYOUT
MANAGEMENT STAFF HOUSING (A-9001)
 TYPICAL FOR BLOCK H1, H2, H3, H4, H5, H6, H7 AND H8
 SCALE : 1:50

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA(m) HEIGHT(m)
[Symbol]	PANEL ELECTRICO EMPOTRADO	-	1.80 BORDE SUPERIOR
[Symbol]	PANELBOARD EMBEDDED	-	1.80 TOP
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	2.20m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+Y, 1Ø, 3Ø VAC 60 Hz. GRADO DE PROTECCION IP44. MODELO TEMPRA. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	CUADRADA 84x84x43	0.45m
[Symbol]	RECEPTACLE 3P+G, 1Ø, 3Ø VAC, 60 Hz. PROTECTION IP44. MODEL TEMPRA. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	SQUARE 84x84x43	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE CUADRUPLER CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	CUADRADA 100x100x40	0.45m
[Symbol]	QUADPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL.	SQUARE 100x100x40	0.45m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
[Symbol]	THERMA ELECTRICA 1.5KW, 220VAC, 1ø	---	2.20m
[Symbol]	WATER HEATERS 1.5KW, 220VAC, 1ø.	---	2.20m
[Symbol]	INTERRUPTOR DIFERENCIAL "ID" DE 1x20A, 220VAC, 10KA, EMPOTRADO A PARED	---	1.30m
[Symbol]	GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, EMBEDDED WALL	---	1.30m
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN DRYWALL	---	---
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED DRYWALL	---	---
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	---	---
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED UNDER FLOOR.	---	---

- NOTA/NOTE**
- X= A, B, C, D, E, F, G AND H
 - LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA), AISLAMIENTO THW. THE CIRCUIT SOCKETS OUTLETS WILL HAVE A SIZE MINIMUM OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND), INSULATION THW.
 - EL INTERRUPTOR DIFERENCIAL "ID" DE LA LAVADORA/SECADORA SERA DE 1x30A DE CAPACIDAD. GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" OF THE WASHER/DRYER MACHINE WILL BE 1x30A CAPACITY.
 - EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010. CALCULATION TO DETERMINE SOCKETS OUTLET NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010.
 - LOS TOMACORRIENTES ESTARAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028. SOCKET OUTLET IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028.
 - EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002. THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.
 - EL EQUIPAMIENTO DE LA COCINA SERA DEFINIDA POR CBI. THE KITCHEN EQUIPMENT SHALL BE DEFINED BY CBI.



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)				PERMANENT COMMUNITY BUILDING POWER AND RECEPTACLE OUTLETS LAYOUT MANAGEMENT STAFF HOUSING A-9001			
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DRAWING BY: WPA DESIGNED BY: COU		REVISION BY: FTA APPROVED BY: JMG		PROJECT No: 1618 REVISION: 0	
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA		SCALE: 1:50 DATE: 01/07/08		DRAWING No: 157883-610-XS-DR-1131-02	
ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9001 AND DP-9002 PCB - ELECTRICAL INSTALLATIONS DETAILS AND NOTES - SHEET 2 OF 2 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS MANAGEMENT STAFF HOUSING A-9001 LIGHTING DISTRIBUTION LAYOUT MANAGEMENT STAFF HOUSING A-9001				157883-610-XS-DR-2025-02 157883-610-XS-DR-2037-06 157883-610-XS-DR-1131-01 157883-610-XS-DR-1131-01			

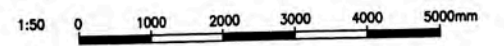


POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
MANAGEMENT STAFF HOUSING A-9001
 TYPICAL FOR BLOCK H1, H2, H3, H4, H5, H6, H7 AND H8
 SCALE : 1/50

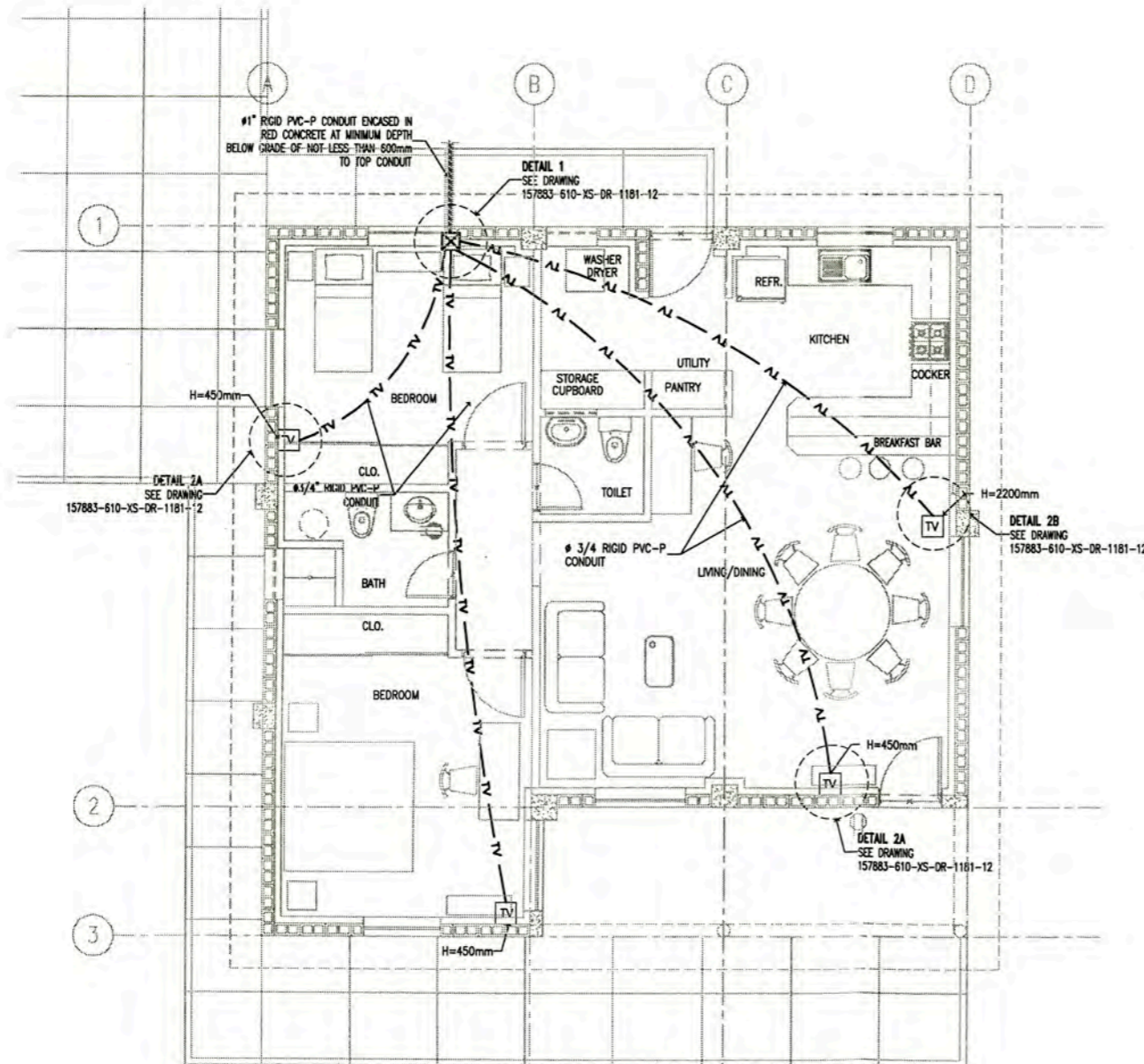
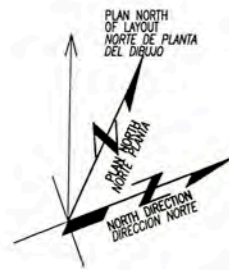
LEYENDA / LEGEND			
SIMBOLO SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS (mm) BOX (mm)	ALTURA HEIGHT(m)
☒ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO ROOF
☒ 2	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45 0.45
☒ 3	CAJA DE PASO DE PVC DE 300x220x120mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 300x220x120mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO ROOF
☒ R	CAJA RECTANGULAR METALICO, 100x55x50mm EMPOTRADO A PARED RECTANGULAR METAL BOX, 100x55x50mm, EMBEDDED IN WALL	RECTANGULAR	2.20 2.20
— —	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
— —	EQUIPO AIRE ACONDICIONADO - UNIDAD EVAPORADOR AIR CONDITIONING EVAPORATOR UNIT	---	2.20 2.20
— —	EQUIPO AIRE ACONDICIONADO - UNIDAD CONDENSADOR AIR CONDITIONING CONDENSING UNIT	---	0.20 0.20
EF	EXTRACTOR DE AIRE EXHAUST FAN	---	TECHO ROOF
⏏	INTERRUPTOR BIPOLAR DE 1x20A, 220VAC, 10KA, EMPOTRADO A PARED. IP65 INCLUDE INTERRUPTOR DE FALLA A TIERRA BREAKER 1x20A, 220VAC, 10KA, EMBEDDED WALL, IP65 INCLUDE GFCI	---	0.45 0.45
— —	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	---	1.80 NIVEL SUP. 1.80 TOP
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PARED O TECHO RIGID PVC-P CONDUIT EMBEDDED IN DRYWALL OR ROOF	---	---
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PISO. RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	---	---
•SA	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-2I CON CUBIERTA SINGLE POLE SWITCH, 16A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-2I WITH COVER	RECTANGULAR 100x55x40 RECTANGULAR 100x55x40	1.30 1.30
⊙	CAJA DE PASO DE PVC-P TIPO PESADO 100x40mm PVC-P JUNCTION BOX TYPE HEAVY 100x40mm	CUADRADA SQUARE	TECHO/PARED ROOF/WALL

NOTAS/NOTES

- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001

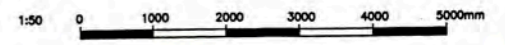


UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDING POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS MANAGEMENT STAFF HOUSING A-9001	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DRAWING NO: 157883-610-XS-DR-1131-03	
PROJECT: PERU LNG EXPORT PROJECT SPECIALITY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DRAWING BY: WPA CHECKED BY: COU DESIGNED BY: FTA APPROVED BY: JMG	PROJECT NO: 1618 REVISION: 0
SCALE: 1:50 DATE: 11/12/08	PROJECT NO: 1618	DRAWING NO: 157883-610-XS-DR-1131-03	



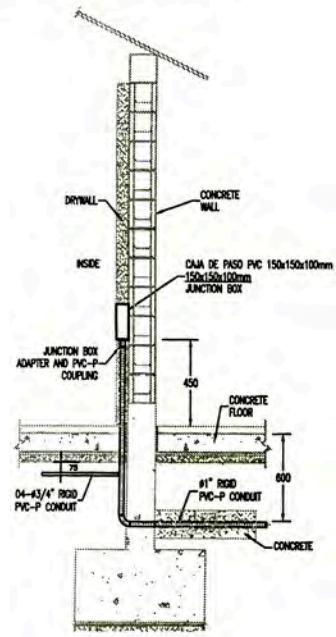
TV OUTLET DISTRIBUTION LAYOUT
MANAGEMENT STAFF HOUSING (A-9001)
 TYPICAL FOR BLOCK H1, H2, H3, H4, H5, H6, H7 AND H8
 SCALE : 1/50

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒	CAJA DE PASO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	AS REQUIRED
	PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	AS REQUIRED
TV	SALIDA PARA TV POR CABLE	RECTANGULAR	AS REQUIRED
	OUTLET FOR TV CABLE	RECTANGULAR	AS REQUIRED
TV	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO DEBAJO DEL PISO.	--	--
	RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED UNDER FLOOR.	--	--



157883-610-XS-DR-1181-12 157883-610-XS-DR-1131-03 157883-610-XS-DR-1131-02 157883-610-XS-DR-1131-01				PCB - TV CABLE INSTALLATIONS DETAILS AND NOTES POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS MANAGEMENT STAFF HOUSING A-9001 POWER AND RECEPTACLE OUTLETS LAYOUT MANAGEMENT STAFF HOUSING A-9001 LIGHTING DISTRIBUTION LAYOUT MANAGEMENT STAFF HOUSING A-9001				UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LOCALIDAD: PAMPA MELCHORITA				PERMANENT COMMUNITY BUILDING TV OUTLETS DISTRIBUTION LAYOUT MANAGEMENT STAFF HOUSING A-9001 PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS PAMPA MELCHORITA 157883-610-XS-DR-1131-11			
ISSUED FOR CONSTRUCTION DESCRIPCION: DESCRIPCION		01/09/09 DATE: 01/09/09		MEJ DRAWING: MEJ		MEJ APPROVED: MEJ		MEJ APPROVED: MEJ		MEJ APPROVED: MEJ		MEJ APPROVED: MEJ		MEJ APPROVED: MEJ	

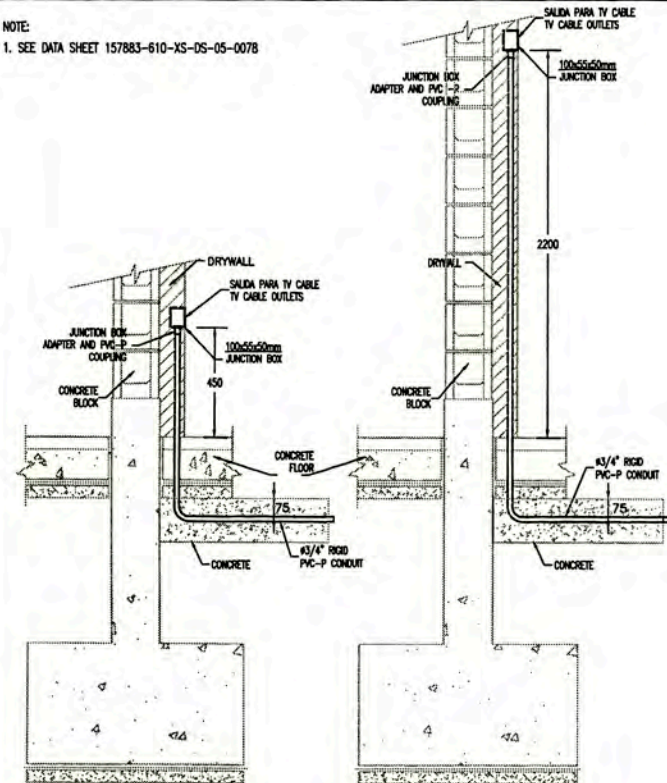
NOTE:
 1. RIGID PVC-P CONDUIT DIAMETER SHALL BE AS DRAWING.
 2. EXPOSED PVC-P CONDUIT SHALL BE COVER FOR PROTECTION AGAINST DAMAGE



INSTALACION DE CAJA DE PASO EN MURO DE DRYWALL
 PVC JUNCTION BOX INSTALLATION IN DRYWALL

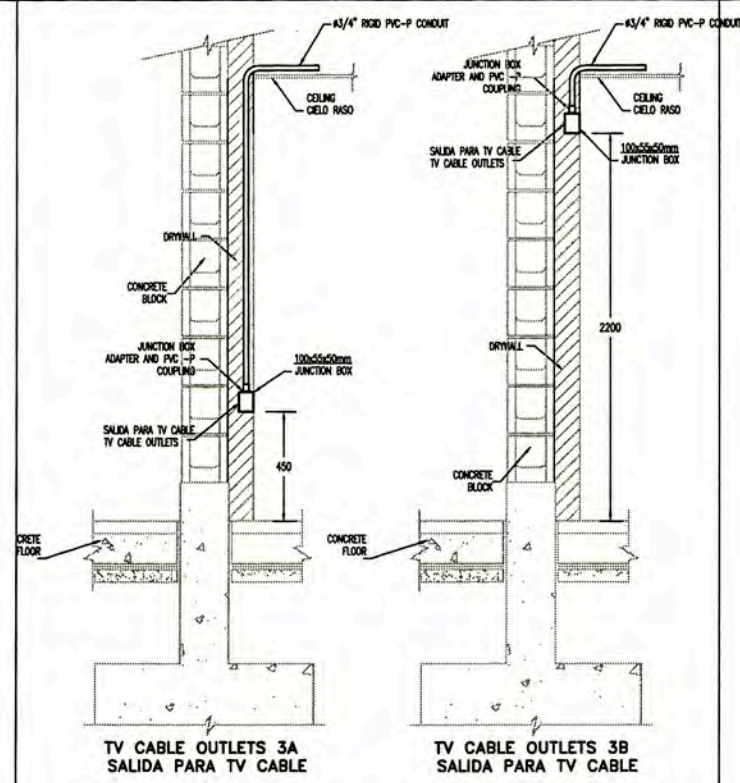
DETALLE 1
 S/E

NOTE:
 1. SEE DATA SHEET 157883-610-XS-05-0078



TV CABLE OUTLETS 2A SALIDA PARA TV CABLE
 TV CABLE OUTLETS 2B SALIDA PARA TV CABLE

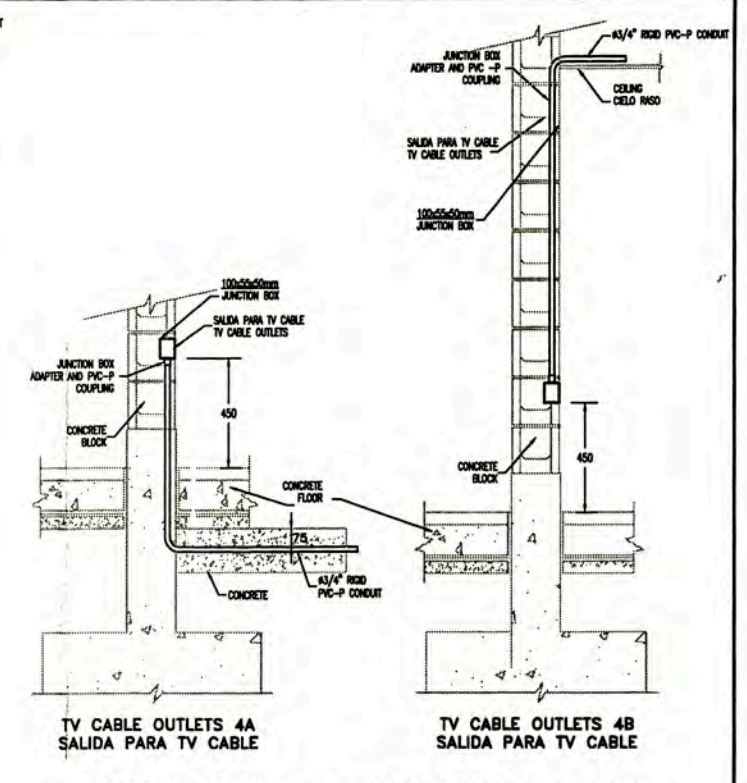
SALIDAS DE CONDUCTO DE TV CABLE EN DRYWALL
 TV OUTLETS IN DRYWALL
 DETALLE 2
 DETAIL 1:15



TV CABLE OUTLETS 3A SALIDA PARA TV CABLE
 TV CABLE OUTLETS 3B SALIDA PARA TV CABLE

SALIDAS DE CONDUCTO DE TV CABLE POR EL TECHO
 TV OUTLETS UNDER ROOF

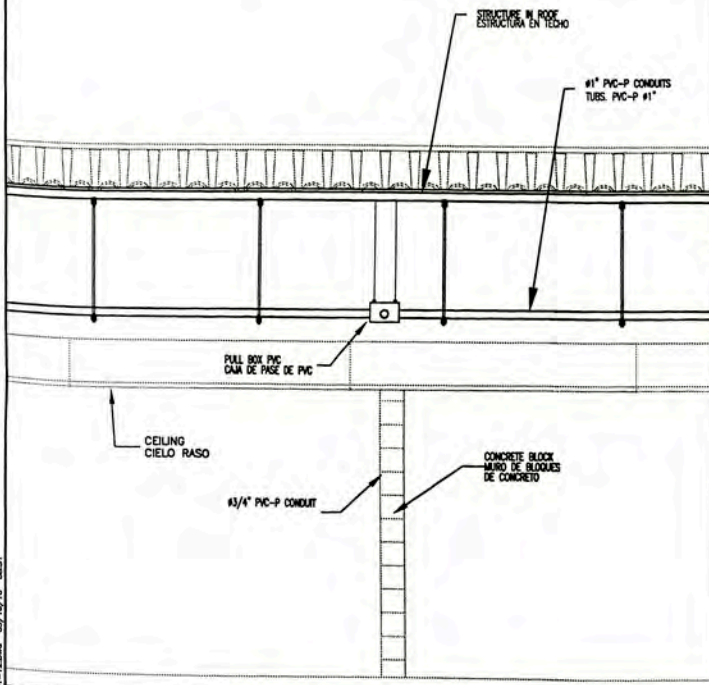
DETALLE 3
 DETAIL 1:15



TV CABLE OUTLETS 4A SALIDA PARA TV CABLE
 TV CABLE OUTLETS 4B SALIDA PARA TV CABLE

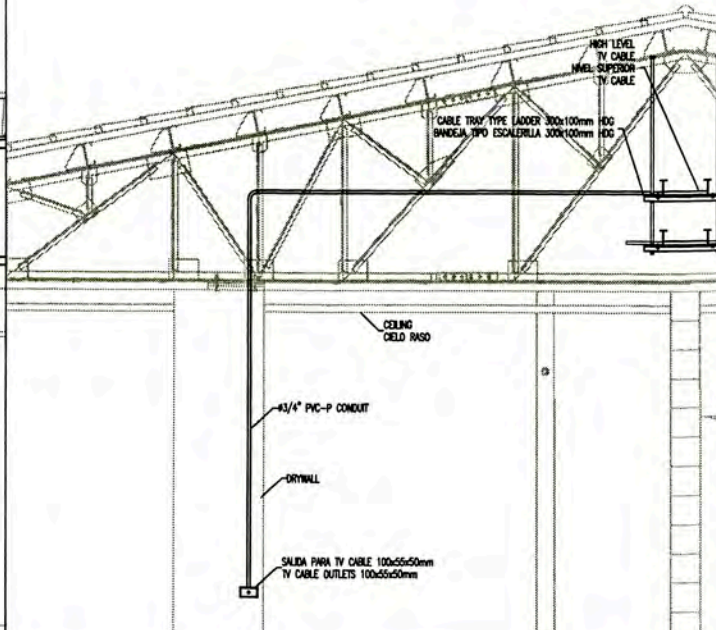
SALIDAS DE CONDUCTO DE TV CABLE EN PARED DE CONCRETO
 TV OUTLETS IN WALL CONCRETE

DETALLE 4
 DETAIL 1:15



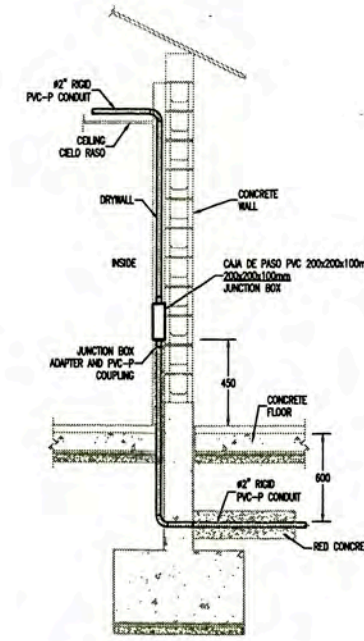
INSTALACION DE CAJA DE PASO EN TECHO
 PVC JUNCTION BOX INSTALLATION IN ROOF

DETALLE 5
 S/E



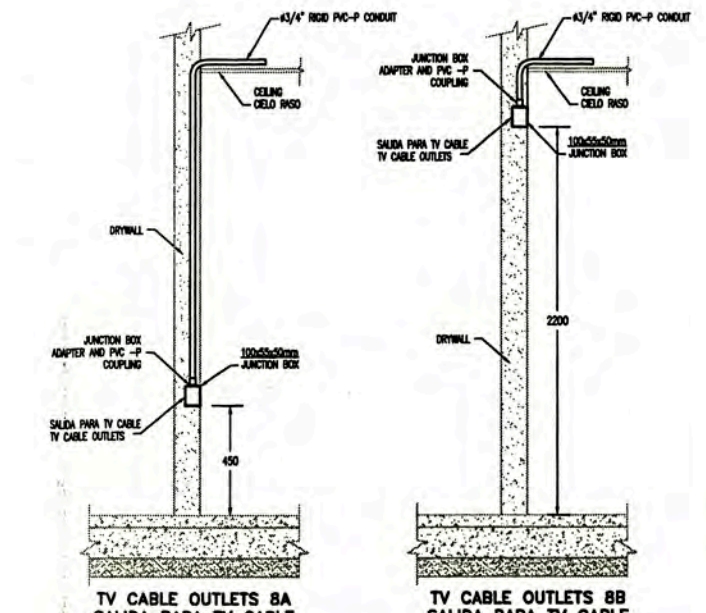
SALIDA DE TV CABLE EMPOTRADO EN DRYWALL
 TV CABLE OUTLETS EMBEDDED IN DRYWALL

DETALLE 6
 S/E



INSTALACION DE CAJA DE PASO
 PVC JUNCTION BOX INSTALLATION

DETALLE 7
 S/E



TV CABLE OUTLETS 8A SALIDA PARA TV CABLE
 TV CABLE OUTLETS 8B SALIDA PARA TV CABLE

SALIDAS DE CONDUCTO DE TV CABLE EN DRYWALL
 TV OUTLETS IN DRYWALL

DETALLE 8
 DETAIL 1:15

157883-610-XS-DR-2281-21	TV OUTLETS DISTRIBUTION LAYOUT GUEST HOUSE (9009)
157883-610-XS-DR-1481-23	TV OUTLETS DISTRIBUTION LAYOUT MEDICAL CLINIC BUILDING (A-9007)
157883-610-XS-DR-1481-22	TV OUTLETS DISTRIBUTION LAYOUT DINING MESS HALL (A-9006)
157883-610-XS-DR-1481-21	TV OUTLETS DISTRIBUTION LAYOUT COMMUNITY RECREATION CENTER (A-9005)
157883-610-XS-DR-1281-21	TV OUTLETS DISTRIBUTION LAYOUT ROTATION STAFF HOUSING (A-9002)
157883-610-XS-DR-1181-11	TV OUTLETS DISTRIBUTION LAYOUT MANAGEMENT STAFF HOUSING (A-9001)



UNIVERSIDAD NACIONAL DE INGENIERIA
 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)

PROYECTO: PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS
 ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
 UBICACION: PAMPA MELCHORITA

DRIVING PLAN 7

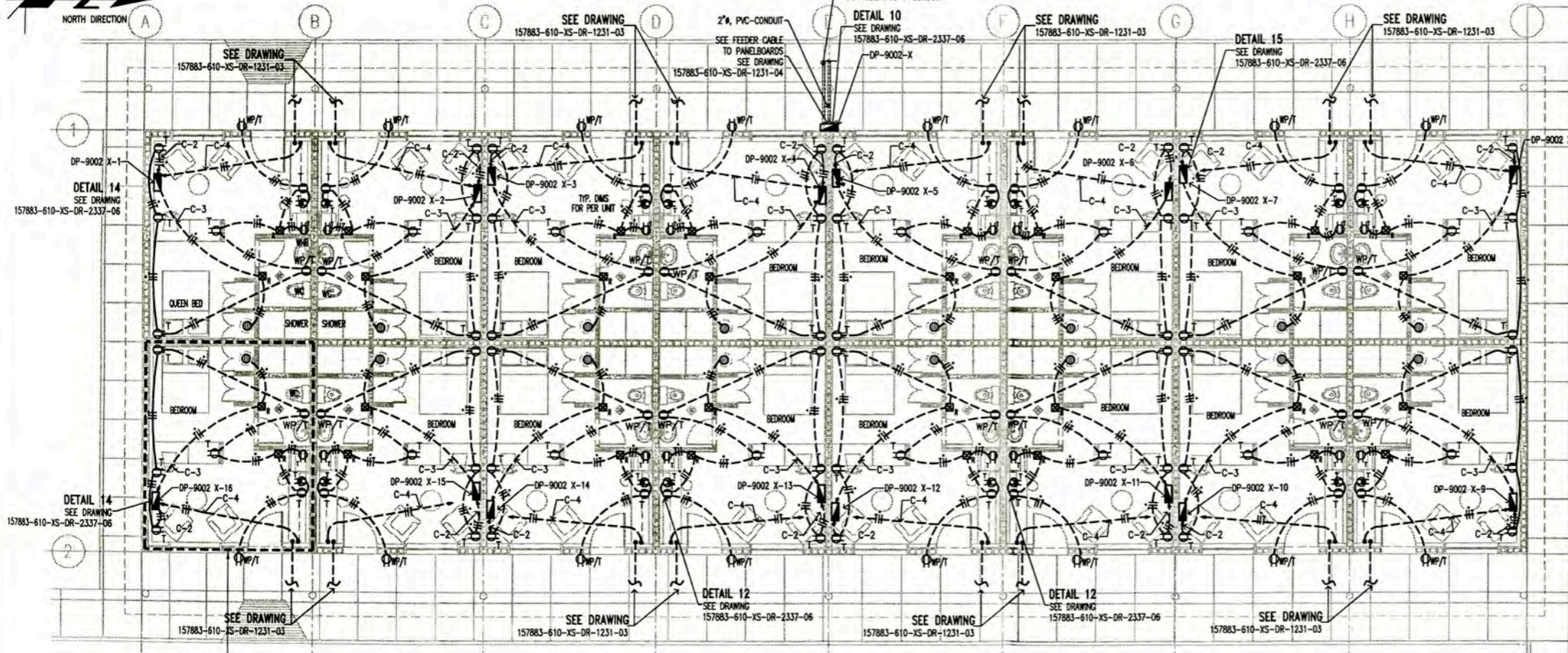
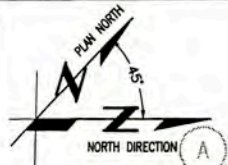
PROYECTO: WPA
 DISEÑADO POR: COU
 REVISADO POR: FTA
 APROBADO POR: JMG

FECHA: 14/05/09
 ESCALA: INDICADA

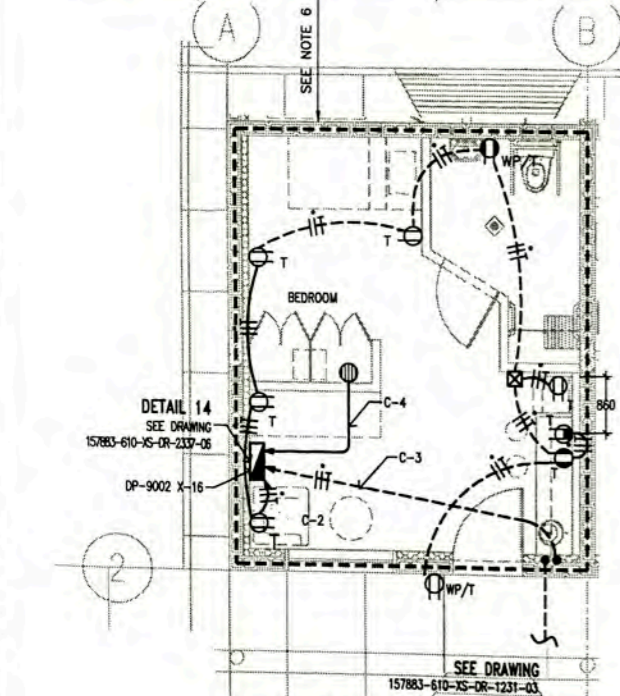
PCB TV CABLE INSTALLATIONS
 DETAILS AND NOTES

PROYECTO: 1618
 APROBADO POR: JMG

DRIVING PLAN 7
 157883-610-XS-DR-1131-12



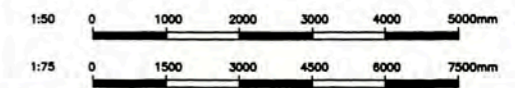
**SOCKET OUTLETS LAYOUT
ROTATION STAFF HOUSING (A-9002)
TYPICAL FOR BLOCK B1, B2, B3, B4 AND B7
SCALE : 1/75**

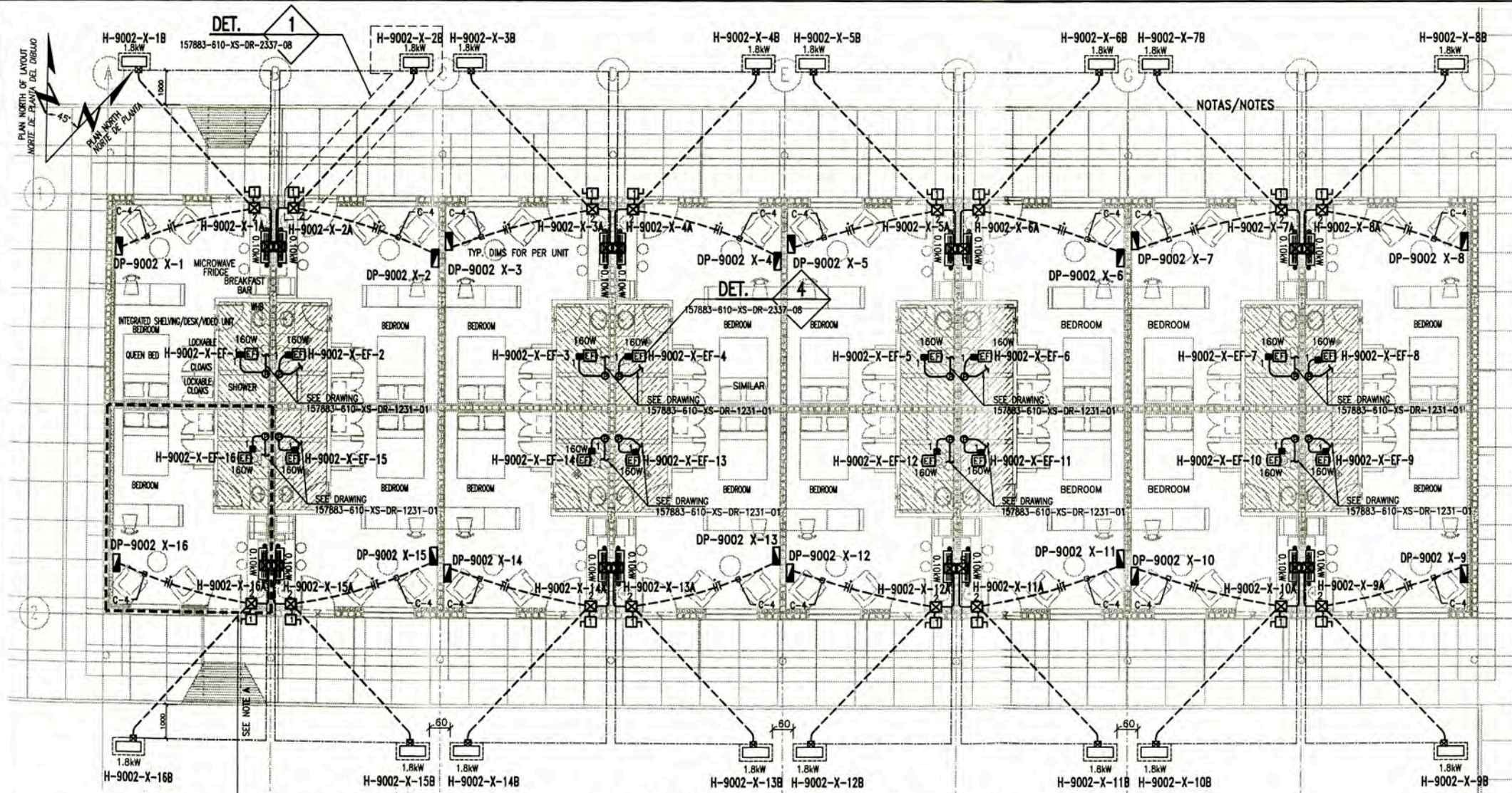


**SOCKET OUTLETS LAYOUT
ROTATION STAFF HOUSING (A-9002)
TYPICAL FOR BLOCK B5 AND B6
SCALE : 1/50**

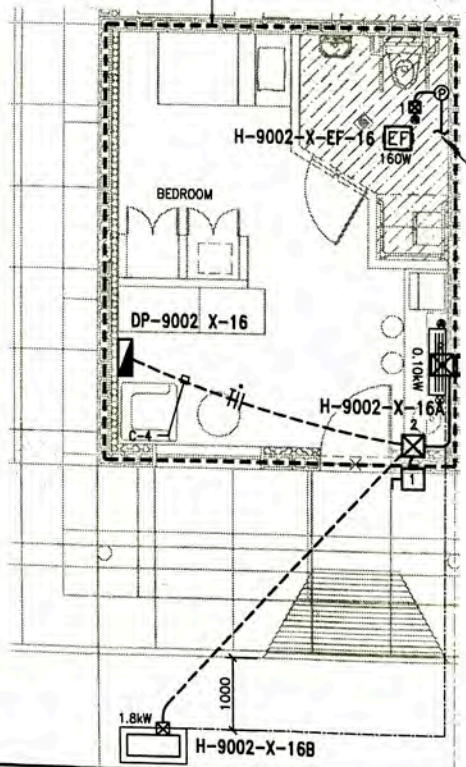
LEYENDA / LEGEND			
SYMBOL/SYMBOL	DESCRIPCION/DESCRIPTION	CANAL/BOX(mm)	ALTIM(m) HECHT(m)
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	0.45m
⊕	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	0.45m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
⊕	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	0.45m
⊕	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	0.45m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
⊕	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
—	CONDUCTOR DE FASE / PHASE CONDUCTOR	—	—
—	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	—	—
—	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	—	—
—	TERMO ELECTRICA 1.5KW, 220VAC, 1Φ	—	2.20m
—	WATER HEATER 1.5KW, 220VAC, 1Φ	—	2.20m
—	CONDUCTO DE 3/4" PVC-P, EMPOTRADO EN DRYWALL	—	—
—	3/4" RIGID PVC-P CONDUIT, EMBEDDED IN DRYWALL	—	—
—	CONDUCTO DE 3/4" PVC-P, EMPOTRADO DEBAJO DEL PISO	—	—
—	3/4" RIGID PVC-P CONDUIT, EMBEDDED BELOW FLOOR	—	—
C-2	CIRCUITO DE TOMACORRIENTES	—	—
C-2	RECEPTACLES OUTLETS CIRCUIT	—	—
C-3	ALIMENTADOR DE AIRE ACONDICIONADO	—	—
C-3	AIR CONDITIONING CIRCUIT	—	—
C-4	ALIMENTADOR DE CALENTADOR DE AGUA	—	—
C-4	WATER HEATER CIRCUIT	—	—
DP-9002-X-1	DP : DISTRIBUTION PANEL 9002-X : BUILDING NUMBER 1 : DISTRIBUTION PANEL NUMBER	—	—
AA-9002-X-1	AA : AIR CONDITIONING 9002-X : BUILDING NAME OR NUMBER 1 : EQUIPMENT NUMBER	—	—
⊕	CONDUCTO RIGIDO DE PVC-P DE 3/4", INDICA BANDA	—	—
⊕	3/4" RIGID PVC-P CONDUIT, INDICATES A RISE	—	—
⊕	CONDUCTO RIGIDO DE PVC-P DE 3/4", INDICA SUIDA	—	—
⊕	3/4" RIGID PVC-P CONDUIT, INDICATES A DROP	—	—
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
⊕	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.20m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPECIOS PLANOS Y REDONDOS CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. SERIE MAGIC/MARCA BTICINO (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.40m
⊕	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, MAGIC SERIES, BTICINO BRAND (EC-80889-1, EC-80884-1, EC-80529, NPT 370.054).	RECTANGULAR 100x55x40	1.40m
⊕	CAJA RECTANGULAR METALICA, 100x55x40mm EMPOTRADO A PARED, CON TAPA	RECTANGULAR	0.45m
⊕	RECTANGULAR METAL BOX, 100x55x40mm, EMBEDDED IN WALL, WITH COVER	RECTANGULAR	0.45m

- NOTE:**
1. VER PLANO DE FUERZA EN 157883-610-XS-DR-1231-05
 1. FOR POWER LAYOUT SEE DRAWING 157883-610-XS-DR-1231-05
 2. LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm2 (FASE), 4mm2 (NEUTRO) Y 4mm2 (TIERRA).
 2. THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm2 (PHASE), 4mm2 (NEUTRAL) Y 4mm2 (GROUND).
 3. X=B1, B2, B3, B4, B5, B6 y B7
 4. BRANCH CIRCUIT TELECOM ONLY FOR BUILDINGS B-3, B-5 AND B-7
DP-9002-B3 FOR G-06
DP-9002-B7 FOR G-05
DP-9002-B5 FOR G-03
SEE DRAWING 157883-610-XS-DR-2385-01
 5. LA ALIMENTACION AL CALENTADOR DE AGUA ES DESDE UN INTERRUPTOR DIFERENCIAL UBICADO EN EL TABLERO DE DISTRIBUCION LOCAL, VER PLANO 157883-XS-DR-2035-02. THE FEEDER WATER HEATER IS FROM A DIFFERENTIAL SWITCH LOCATED IN THE LOCAL PANELBOARD, SEE DWG. 157883-610-XS-DR-2035-02.
 6. HANDICAPPED UNIT APPLICABLE FOR BLOCKS B5 AND B6 ONLY.





POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
 ROTATION STAFF HOUSING A-9002
 TYPICAL FOR BLOCK B1, B2, B3, B4 AND B7
 SCALE : 1/75

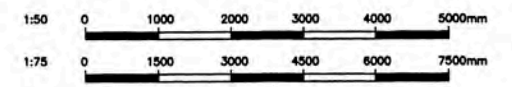


POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
 ROTATION STAFF HOUSING (A-9002)
 TYPICAL FOR BLOCK B5 AND B6
 SCALE : 1/50

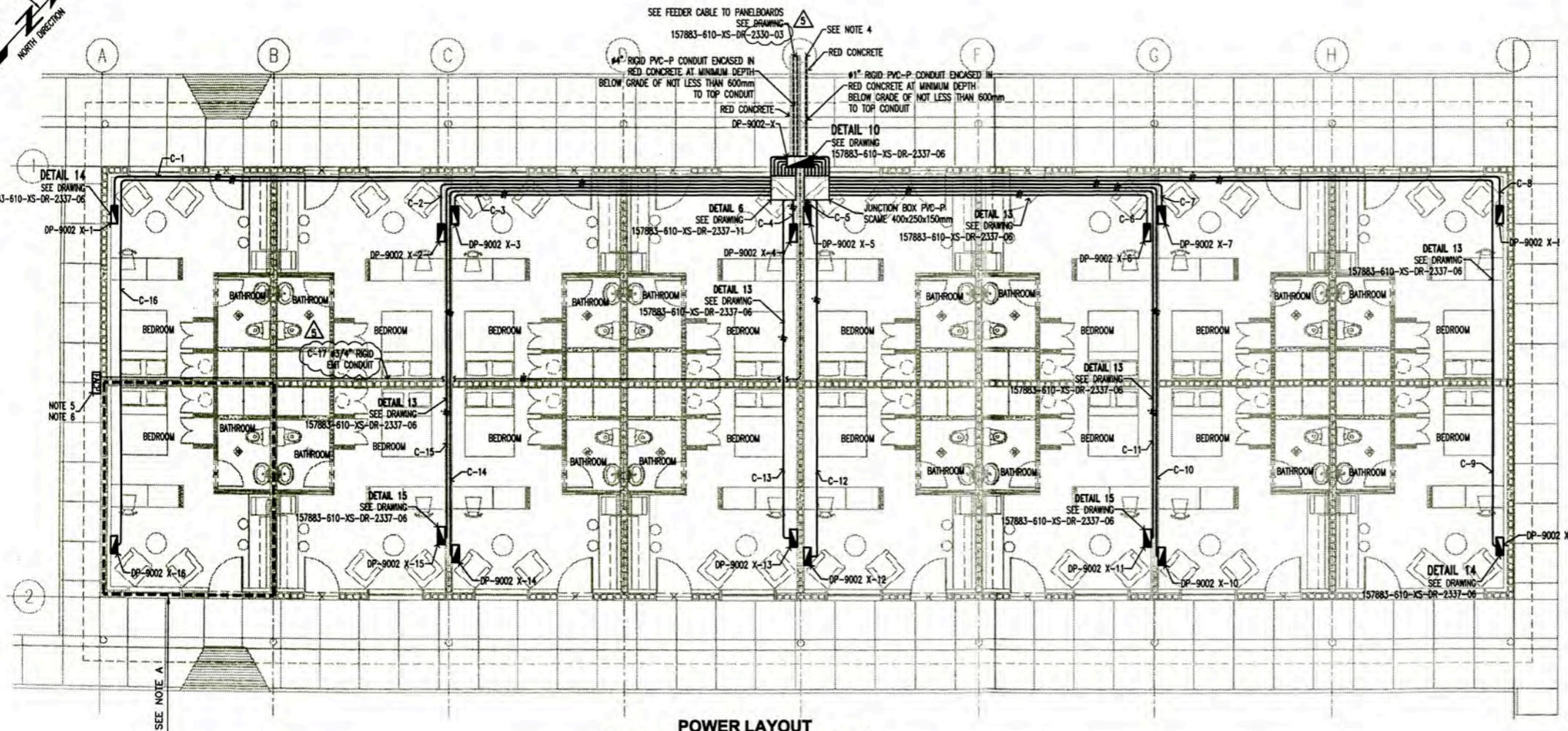
LEYENDA / LEGEND			
SIMBOLO SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS (mm) BOX (mm)	ALTURA/ HEIGHT(m)
☒ 1	CAJA DE PISO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO
☒ 2	CAJA DE PISO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45
☒ R	CAJA RECTANGULAR METALICO, 100x55x50mm EMPOTRADO A PARED RECTANGULAR METAL BOX, 100x55x50mm, EMBEDDED IN WALL	RECTANGULAR	1.30
— —	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
— —	EQUIPO AIRE ACONDICIONADO - UNIDAD EVAPORADORA AIR CONDITIONING EVAPORATOR UNIT	---	2.20
EF	EXTRACTOR DE AIRE EXHAUST FAN	---	TECHO
— —	EQUIPO AIRE ACONDICIONADO - UNIDAD CONDENSADORA AIR CONDITIONING CONDENSING UNIT	---	0.20
— —	INTERRUPTOR BIPOLAR DE 1x20A, 220VAC, 10KA, IP65 EMPOTRADO A PARED. INCLUYE INTERRUPTOR DE FALLA A TIERRA BREAKER 1x20A, 220VAC, 10KA, IP65, EMBEDDED WALL, INCLUDE GFCI	---	0.45
— —	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	---	1.80 NIVEL SUP.
— —	CONDUCTO DE PVC-P, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL	---	---
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PISO. RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	---	---
Ⓟ	CAJA DE PISO DE PVC-P TIPO PESADO 100x40mm PVC-P JUNCTION BOX TYPE HEAVY 100x40mm	CUADRADA	TECHO/PARED

NOTAS/NOTES

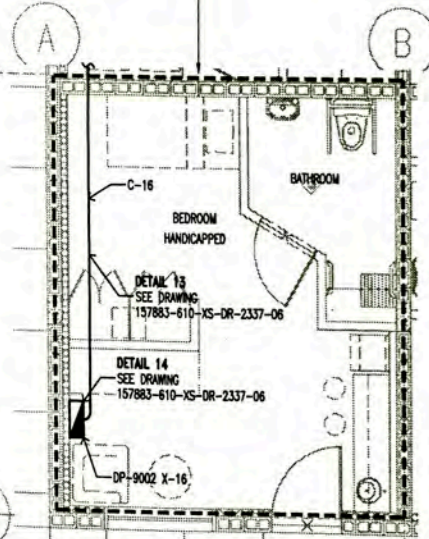
- EL DIAMETRO DE LOS CONDUCTOS SE MUESTRA EN 157883-610-XS-SH-0002
THE DIAMETER OF CONDUITS IS SHOW IN ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
- X: B1, B2, B3, B4, B5, B6 y B7.



157883-610-XS-DR-2337-08 157883-610-XS-DR-2035-02 157883-610-XS-DR-1280-01 157883-610-XS-DR-1231-02 157883-610-XS-DR-1231-01		HVAC INSTALLATIONS DETAILS AND NOTES-PCB ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9001 AND DP-9002 HVAC-GENERAL A-9002 SOCKETS OUTLETS LAYOUT - ROTATION STAFF HOUSING A-9002 LIGHTING DISTRIBUTION LAYOUT - ROTATION STAFF HOUSING A-9002			UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS ROTATION STAFF HOUSING A-9002	
ISSUED FOR CONSTRUCTION		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS			PROJECT: PERU LNG EXPORT PROJECT SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA	



POWER LAYOUT
 ROTATION STAFF HOUSING (A-9002)
 TYPICAL FOR BLOCK B1, B2, B3, B4, AND B7
 SCALE : 1/75



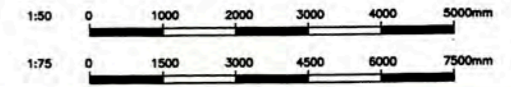
POWER LAYOUT
 ROTATION STAFF HOUSING (A-9002)
 TYPICAL FOR BLOCK B5 AND B6
 SCALE : 1/50

NOTE:
 A. HANDICAPPED UNIT APPLICABLE
 FOR BLOCKS B5 AND B6 ONLY

LEYENDA / LEGEND			
SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CANAL/BOX (mm)	ALTIM (m) HEIGHT (ft)
	TABLERO ELECTROICO EMPOTRADO	---	1.80m BORDE SUPERIOR
	PANELBOARD EMBEDDED	---	1.80m TOP
	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
	CONDUCTO DE PVC-P #20mm, EMPOTRADO EN TECHO O EN PARED.	---	---
	#20mm RIGID PVC-P CONDUIT, EMBEDDED ROOF OR WALL.	---	---
	DP : DISTRIBUTION PANEL 9002-X : BUILDING NUMBER 1 : DISTRIBUTION PANEL NUMBER	---	---
	AA : AIR CONDITIONING 9002-X : BUILDING NAME OR NUMBER 1 : EQUIPMENT NUMBER	---	---
	FACP PANEL DE ALARMA CONTRA INCENDIOS EMPOTRADO (NOTA 4)	---	1.80 BORDE SUPERIOR
	FIRE ALARM CONTROL PANEL EMBEDDED (NOTE 4)	---	1.80 TOP

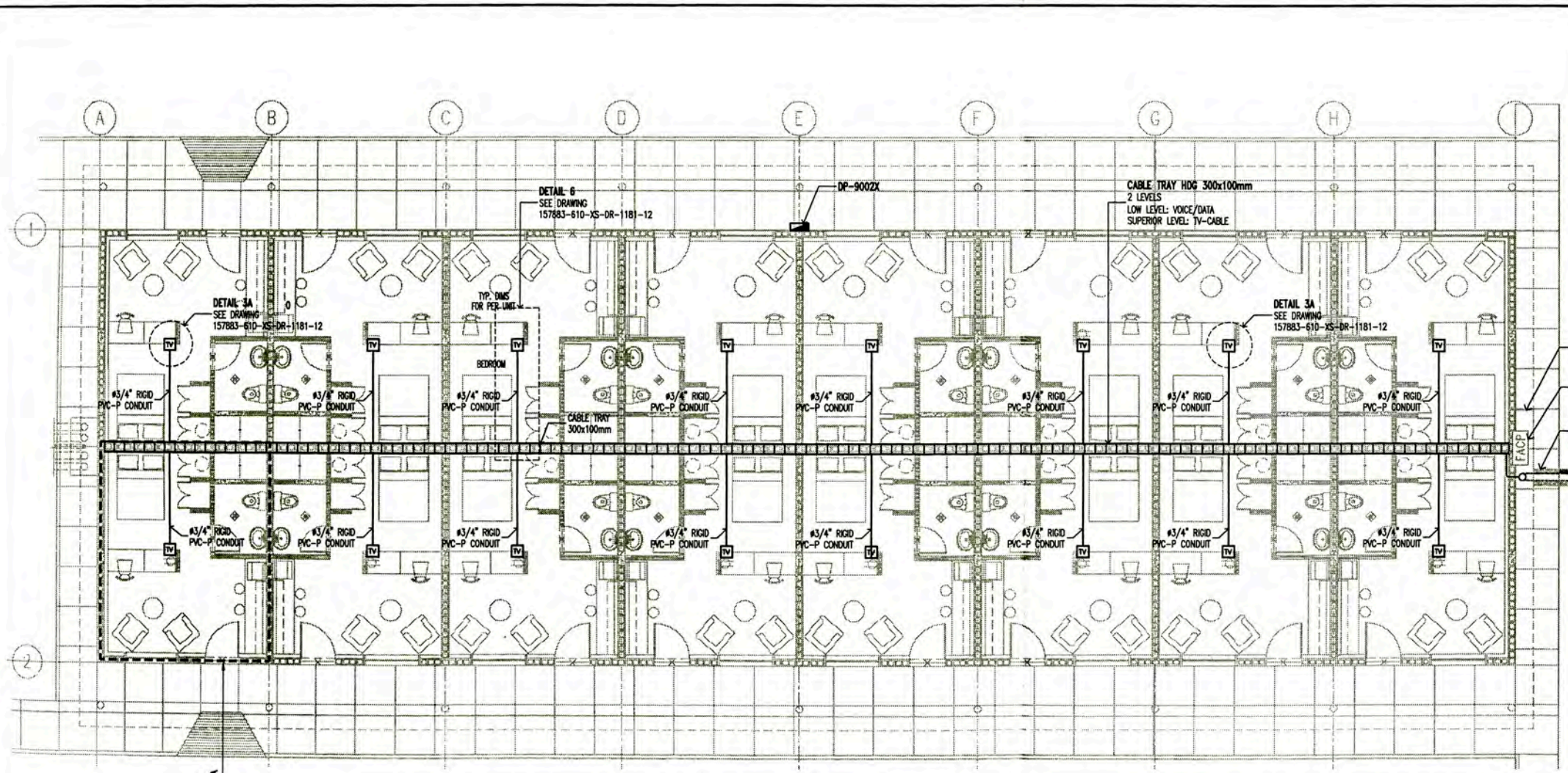
NOTA/NOTE

- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002
 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
- X: B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16.
- THE FEEDERS TO FIRE ALARM AND COMMUNICATIONS CABINET:
 G-06, FROM C-18 DP-9002-B3
 G-05, FROM C-18 DP-9002-B7
 G-03, FROM C-18 DP-9002-B5
- THE FIRE ALARM CONTROL PANEL (FACP) WILL BE LOCATED ACCORDING TO
 AXIS "A": BLOCK B2, B3, B6, AND B7
 AXIS "I": BLOCK B1, B4, AND B5
- THE TAG NUMBER FOR FIRE ALARM CONTROL PANEL SHALL BE:
 JX-F-1193B1; BLOCK B1
 JX-F-1193B2; BLOCK B2
 JX-F-1193B3; BLOCK B3
 JX-F-1193B4; BLOCK B4
 JX-F-1193B5; BLOCK B5
 JX-F-1193B6; BLOCK B6
 JX-F-1193B7; BLOCK B7



157883-610-XS-DR-2380-01	POB FIRE DETECTION SYSTEM LAYOUT		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)	PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DESIGNER: WPA	DESIGNED BY: COU	REVIEWED BY: FTA	APPROVED BY: JMG	DRAWING NO: 157883-610-XS-DR-1231-05	
157883-610-XS-DR-2035-02	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9001, DP-9001(N1-N8), DP-9002 AND DP(B1-B7)				DATE: 13/02/09	SCALE: INDICATED	DATE: 17/02/09	PROJECT NO: 1618	REVISION: 0	
157883-610-XS-DR-2337-06	POB ELECTRICAL INSTALLATION DETAILS AND NOTES									
157883-610-XS-DR-1231-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS ROTATION STAFF HOUSING A-9002									
157883-610-XS-DR-1231-02	SOCKET OUTLET LAYOUT ROTATION STAFF HOUSING A-9002									
157883-610-XS-DR-1231-01	LIGHTING DISTRIBUTION LAYOUT ROTATION STAFF HOUSING A-9002									

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
	CAJA DE PASO DE PVC DE 200x200x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	TECHO
	PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	ROOF
TV	SALIDA PARA TV POR CABLE TV CABLE OUTLET	RECTANGULAR	0.45
	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, SOPORTADO EN ESTRUCTURA DE TECHO	--	--
	RIGID PVC-P CONDUIT, FOR TV CABLE, SUPPORTED FROM ROOF STRUCTURE	--	--
	CABLE TRAY HDG LADDER TYPE 300x100mm	--	TECHO
	BANDEJA PORTACABLES TIPO GALVANIZADO EN CALIENTE ESCALERA 300x100mm	--	ROOF



FALSA COLUMNA CON PANELES DE CEMENTO
COLUMN FALSE WITH CEMENT BOARD

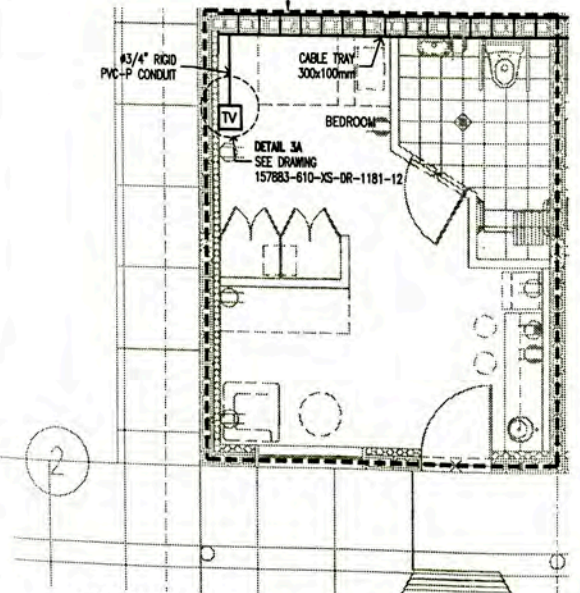
FACP (SEE NOTE1)

#4\"/>

NOTE/NOTA

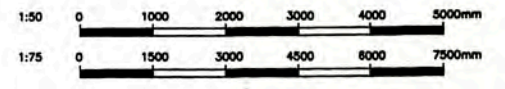
1.-THE FIRE ALARM CONTROL PANEL (FACP) WILL BE LOCATED ACCORDING TO AXIS 'A': BLOCK B2, B3, B6, AND B7
AXIS '1': BLOCK B1, B4, AND B5

TV OUTLETS DISTRIBUTION LAYOUT
ROTATION STAFF HOUSING (A-9002)
TYPICAL FOR BLOCK B1, B2, B3, B4 AND B7
SCALE : 1/75

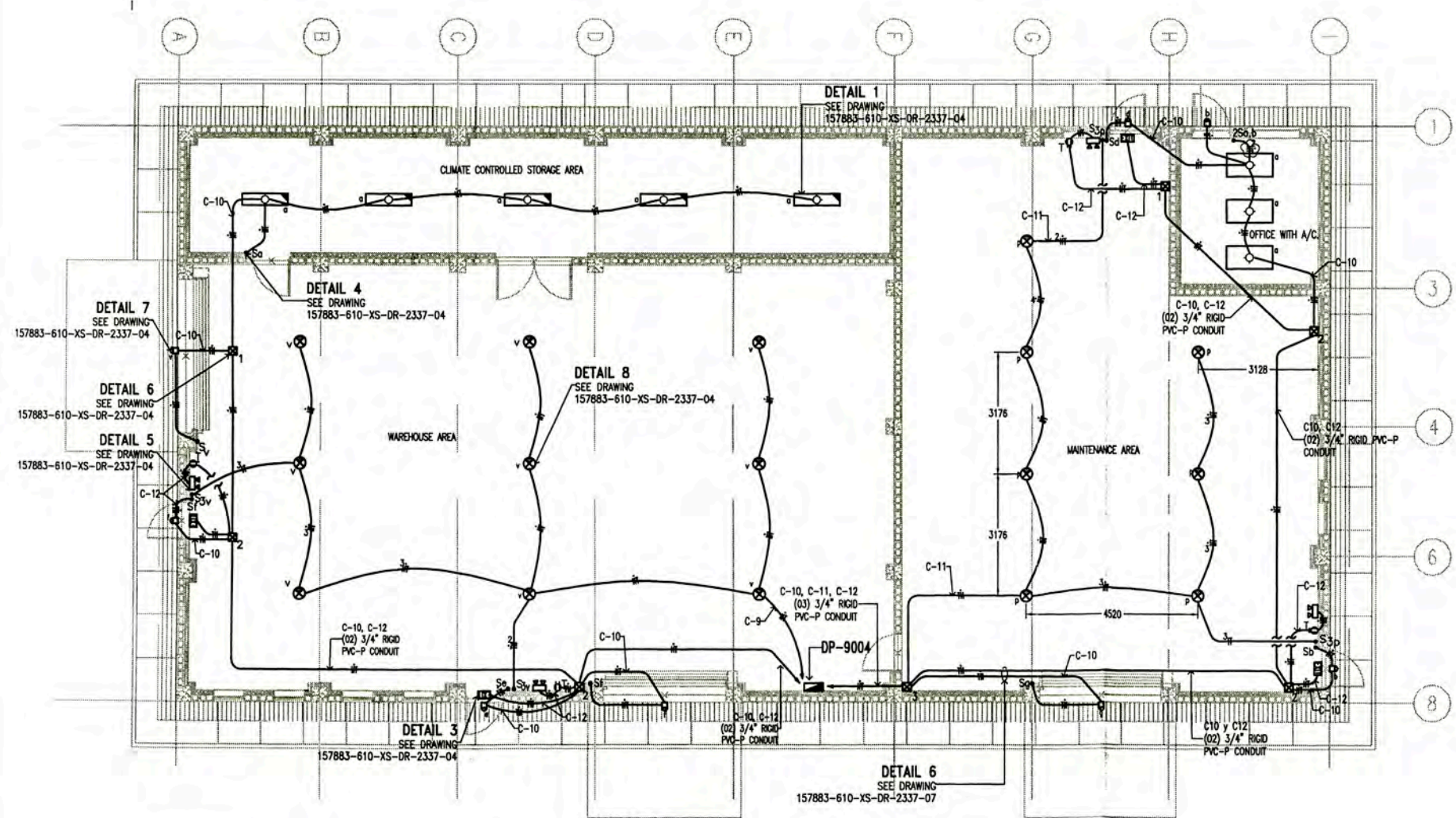


NOTE:
A. HANDICAPPED UNIT APPLICABLE FOR BLOCKS B5 AND B6 ONLY

TV OUTLETS DISTRIBUTION LAYOUT
ROTATION STAFF HOUSING (A-9002)
TYPICAL FOR BLOCK B5 AND B6
SCALE : 1/50



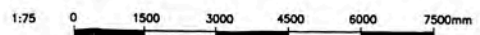
UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS TV OUTLETS DISTRIBUTION LAYOUT ROTATION STAFF HOUSING A-9002	
PROYECTO: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DISEÑADO POR: WPA	
SPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		DISEÑADO POR: COU	
LOCALIDAD: PAMPA MELCHORITA		REVISADO POR: FTA	
FECHA: 01/06/09		APROBADO POR: JMG	
PROYECTO No: 1618		DISEÑO No: 0	
DISEÑO No: 157883-610-XS-DR-1281-21		DISEÑO No: 157883-610-XS-DR-1281-21	



NOTAS/NOTES:

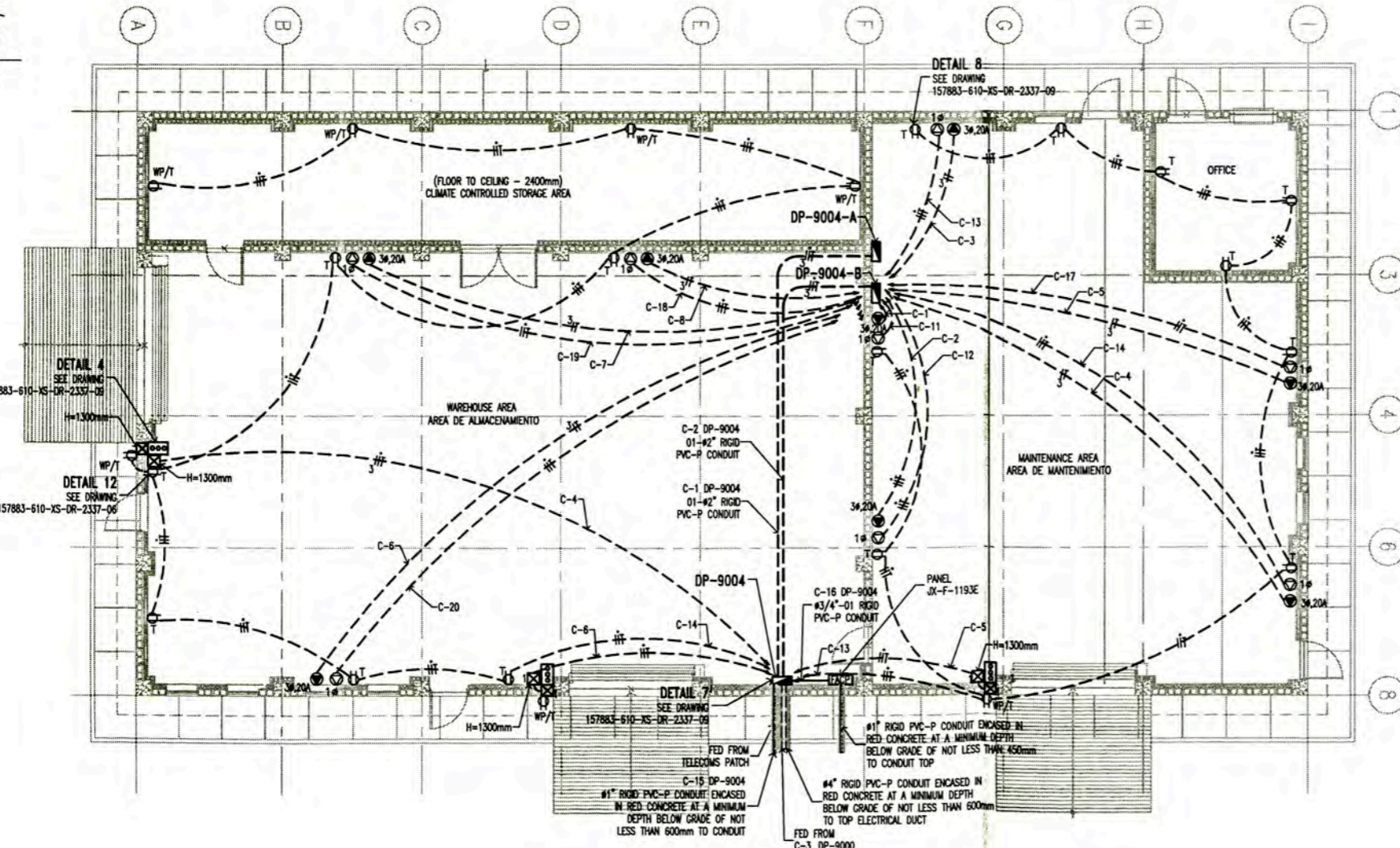
- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
CALCULATION TO DETERMINE LIGHTING NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026
THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0004
THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0004
 - EL LISTADO DE CARGAS ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION
LIGHTING FIXTURE WILL THIS PRESENTATION
- INDICATES LIGHTING FIXTURE
 INDICATES SWITCH
 INDICATES LIGHTING FIXTURE WITH SWITCH
- LOS NIVELES DE ILUMINACION DE ALUMBRADO DE ALMACENAJE EN FRIO SERA CATEGORIA "C" DE ACUERDO A LA NORMA EM/DGE 017-A1-1/1982, TABLA V, PARA TRABAJOS VISUALES SOLO OCASIONALMENTE.
THE ILLUMINATION LEVELS AT COLD STORAGE ROOM WILL BE CATEGORY "C" ACCORDING TO NORM EM/DGE 017-A1-1/1982, TABLE V, FOR VISUAL WORK ONLY OCASIONALMENTE.

**LIGHTING DISTRIBUTION LAYOUT
COMMUNITY WAREHOUSE A-9004
SCALE : 1/75**



LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA/ HEIGHT(m)
	ARTEFACTO RES-A/2'x4'/3TLD 36W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC FLUORESCENT LIGHTING FIXTURE RES-A / 2'X4' / 3TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILINGS
	ARTEFACTO RES-A/1'x4'/2TLD 36W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC FLUORESCENT LIGHTING FIXTURE RES-A / 1'X4' / 2TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILINGS
	TABLERO ELECTRICO EMPOTRADO PANELBOARD EMBEDDED	---	1.80 BORDE SUPERIOR 1.80 TOP
	LUMINARIA DE EMERGENCIA LE-AP/AT/ZTC-D 26W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA. LIBRE DE MANTENIMIENTO. 220VAC EMERGENCY LIGHTING FIXTURE LE-AP/AT/ZTC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR. MAINTENANCE-FREE. 220VAC	OCTOGONAL 100x40	2.20m
	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIGAS PLANAS Y REDONDAS CON TOMA A TIERRA. 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIE MAGIC, MARCA BTICINO (IEC-60869-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A EMBEDDED ON WALL, MAGIC SERIES, BTICINO BRAND (IEC-60869-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
	LUMINARIA TIPO HIGH-BAY, CON 01 LAMPARA DE HALOGENURO METALICO DE 250W, 220VAC, 1Ø, CON ALTO F.D.P, MODELO MER-H DE JOSFEL. LIGHTING EQUIPMENT "HIGH-BAY", WITH 01 METAL HALIDE LAMPS OF 250W, 220VAC, 1Ø, WITH HIGH F. D. P, MER-H MODEL OF JOSFEL.	---	4.00
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1Ø, CON ALTO F.D.P, IP65, MODELO RSP DE JOSFEL. WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1Ø, WITH HIGH-FDP, IP65, MODEL OF RSP JOSFEL.	---	3.70
	LUMINARIA DE SEÑALIZACION; CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1Ø, CON ALTO F.D.P, MODELO LE-AP/AT DE JOSFEL. EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1Ø, WITH HIGH FDP LE-AP/AT MODEL JOSFEL.	---	2.20
	CONDUCTO DE PVC-P Ø20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. 01 3-WAY SWITCH 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO ROOF
	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO ROOF

157883-610-XS-CC-0012 157883-610-XS-DR-2035-03 157883-610-XS-DR-2337-04 157883-610-XS-DR-1331-03 157883-610-XS-DR-1331-02		ILLUMINATION LEVEL CALCULATION - COMMUNITY WAREHOUSE A-9004 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A PCB - ELECTRICAL INSTALLATION DETAILS AND NOTES - PCB POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - COMMUNITY WAREHOUSE A-9004 POWER AND RECEPTACLE OUTLETS LAYOUT - COMMUNITY WAREHOUSE A-9004		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS LIGHTING DISTRIBUTION LAYOUT COMMUNITY WAREHOUSE A-9004	
PROJECT PROTECTOR ESPECIALISTA: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PROJECT PROTECTOR PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS LOCALIDAD: PAMPA MELCHORITA		DRAWING BY: WPA SCALE: 1/75 DESIGNED BY: COU DATE: 01/07/08 REVISION BY: FTA PROJECT No: 1618 REVISION: 0		APPROVED BY: JMG PLANNED BY: 157883-610-XS-DR-1331-01	

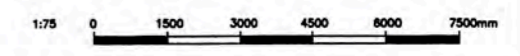


POWER AND RECEPTACLE OUTLETS LAYOUT
COMMUNITY WAREHOUSE A-9004
 ESC:1/75

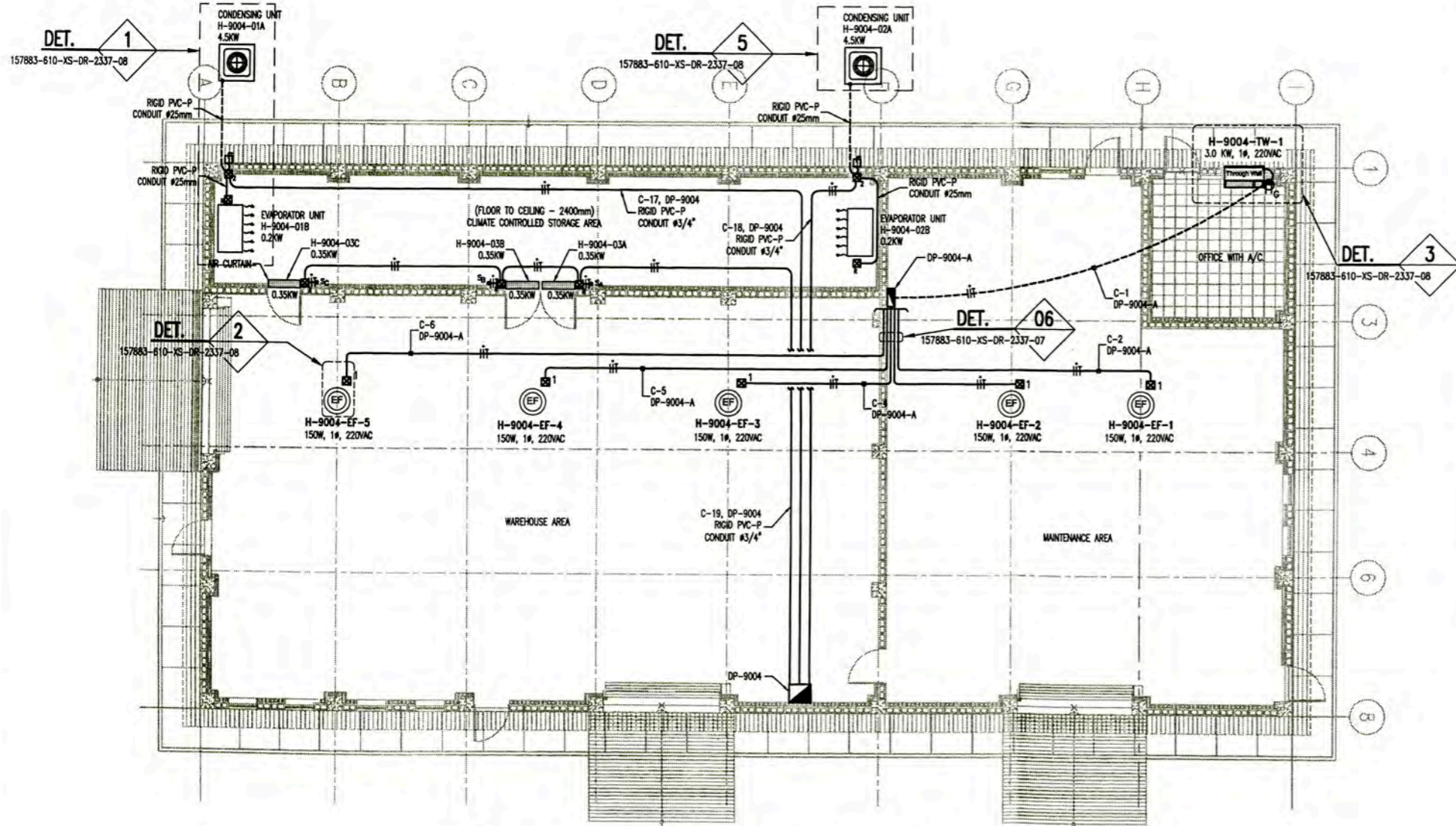
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA/ HEIGHT(m)
[Symbol]	PANEL ELECTRICO EMPOTRADO	-	1.80 BORDE SUPERIOR
[Symbol]	PANELBOARD EMBEDDED	-	1.80 TOP
[Symbol]	PANEL DE CONTROL DE ALARMA CONTRA INCENDIOS JX-F-1193E	-	1.80 BORDE SUPERIOR
[Symbol]	FIRE ALARM CONTROL PANEL JX-F-1193E	-	1.80 TOP
[Symbol]	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 150x150x100mm	CUADRADA	VER PLANO
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 150x150x100mm	SQUARE	SEE DRAWING
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	2.20m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 16A, 380 VAC 60 Hz. GRADO DE PROTECCION IP44. MODELO TEMpra, MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	CUADRADA 84x84x43	0.45m
[Symbol]	RECEPTACLE 3P+G, 16A, 380 VAC, 60 Hz. PROTECTION IP44. MODEL TEMpra, BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	SQUARE 84x84x43	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE CUADRUPLE CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	CUADRADA 100x100x40	0.45m
[Symbol]	QUADPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL.	SQUARE 100x100x40	0.45m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
[Symbol]	SALIDA DE FUERZA 1ø, P+N+T, 20A, 220VAC 60Hz. GRADO DE PROTECCION IP54. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	RECEPTACLE P+N+G, 20A, 220VAC, 60Hz. PROTECTION IP54. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 20A, 380VAC 60Hz. GRADO DE PROTECCION IP54. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	RECEPTACLE 3P + G, 20A, 380VAC, 60Hz. PROTECTION IP54. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 30A, 380VAC 60Hz. GRADO DE PROTECCION IP54. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	RECEPTACLE 3P + G, 30A, 380VAC, 60Hz. PROTECTION IP54. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	---	1.30m
[Symbol]	CONDUCTO RIGIDO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN MURO	---	---
[Symbol]	RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL.	---	---
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN MURO	---	---
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED WALL.	---	---
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	---	---
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED UNDER FLOOR.	---	---
[Symbol]	ESTACION DE CONTROL PARA PUERTA ENROLLABLE	---	1.30m
[Symbol]	CONTROL STATION FOR ROLL UP DOOR	---	1.30m

NOTAS/NOTES

- EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
 CALCULATION FOR THE NUMBER OF OUTLETS PER CIRCUIT IS SHOWN IN 157883-610-XS-CC-0010
- LOS TOMACORRIENTES ESTARAN ACUERDO CON LA HOJA TECNICA 157883-610-XS-DR-0028.
 RECEPTACLE OUTLET IN ACCORDING TO DATA SHEET 157883-610-XS-DR-0028.
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157880-610-XS-SH-0002
 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001.
 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.



157883-610-XS-DR-2385-01 PCB TELECOMMUNICATIONS LAYOUT 157883-610-XS-DR-2035-03 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A 157883-610-XS-DR-2035-11 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004-B, DP-9006-B AND DP-9006-C 157883-610-XS-DR-1331-01 LIGHTING DISTRIBUTION LAYOUT - COMMUNITY WAREHOUSE A-9004 157883-610-XS-DR-1331-03 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - COMMUNITY WAREHOUSE A-9004 157883-610-XS-DR-2337-04 ELECTRICAL INSTALLATION DETAILS AND NOTES		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) PAMPA MELCHORTA	PERMANENT COMMUNITY BUILDINGS POWER AND RECEPTACLE OUTLETS LAYOUT COMMUNITY WAREHOUSE A-9004 157883-610-XS-DR-1331-02
ISSUED FOR CONSTRUCTION DATE: 04/08/08 DRAWN BY: WPA CHECKED BY: COU APPROVED BY: FTA PROJECT No: 1618 REVISION: 0	DATE: 01/07/08 SCALE: 1/75	DATE: 01/07/08 SCALE: 1/75	DATE: 01/07/08 SCALE: 1/75

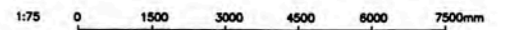


POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
 COMMUNITY WAREHOUSE A-9004
 ESC:1:75

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA/ HEIGHT(m)
☒ 1	CAJA DE PASO PVC 150x110x70mm, MODELO ESCABOX POR SCAME. PVC PULL BOX, 150x110x70mm, MODEL SCABOX BY SCAME	RECTANGULAR	TECHO ROOF
☒ R	CAJA RECTANGULAR METALICO, 100x55x50mm EMPOTRADO A PARED RECTANGULAR METAL BOX, 100x55x50mm, EMBEDDED IN WALL	RECTANGULAR	2.20
☒ 1	INTERRUPTOR BIPOLAR DE 1x20A, 220VAC, 10KA, EMPOTRADO A PARED. IP65 INCLUYE INTERRUPTOR DE FALLA A TIERRA BREAKER 1x20A, 220VAC, 10KA, EMBEDDED WALL, IP65 INCLUDE GFCI	---	0.45
— — —	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— — —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— — —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
⊕	EXTRACTOR DE AIRE / EXHAUST FAN	---	TECHO/ROOF
— — —	CONDUCTO DE PVC-P DE #3/4", SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. #3/4" RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL	---	---
— — —	CONDUCTO DE PVC-P DE #3/4" EMPOTRADO EN PISO. #3/4" RIGID PVC-P CONDUIT EMBEDDED FLOOR.	---	---
⊕	EQUIPO AIRE ACONDICIONADO - UNIDAD EVAPORADOR AIR CONDITIONING EVAPORATOR UNIT	---	2.20
⊕	EQUIPO AIRE ACONDICIONADO - UNIDAD CONDENSADOR AIR CONDITIONING CONDENSING UNIT	---	0.20
⊕	EQUIPO AIRE ACONDICIONADO TIPO VENTANA AIR CONDITIONING EVAPORATOR TYPE WINDOWS	---	---
Through Wall	EQUIPO AIRE ACONDICIONADO-THROUGH WALL THROUGH WALL AIR CONDITIONING EQUIPMENT	---	0.10 NIVEL INFER. 0.10 BOTTOM
⊕	TABLERO ELECTRICO EMPOTRADO PANELBOARD EMBEDDED.	---	1.8 NIVEL SUPER. 1.8 TOP
⊕	TOMACORRIENTE SIMPLE, CON TOMA A TIERRA, 250V, 60Hz, 20A, EMPOTRADO EN PARED, MODELO 6-20R DE LEVITON. SINGLE RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 20A, EMBEDDED IN WALL, MODEL 6-20R OF LEVITON.	RECTANGULAR 100x55x40	0.45
⊕	INTERRUPTOR UNIPOLAR SIMPLE 15A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-2I CON CUBIERTA. POR LEVITON SINGLE POLE SWITCH, 15A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-2I WITH COVER. BY LEVITON	RECTANGULAR 100x55x40	1.30

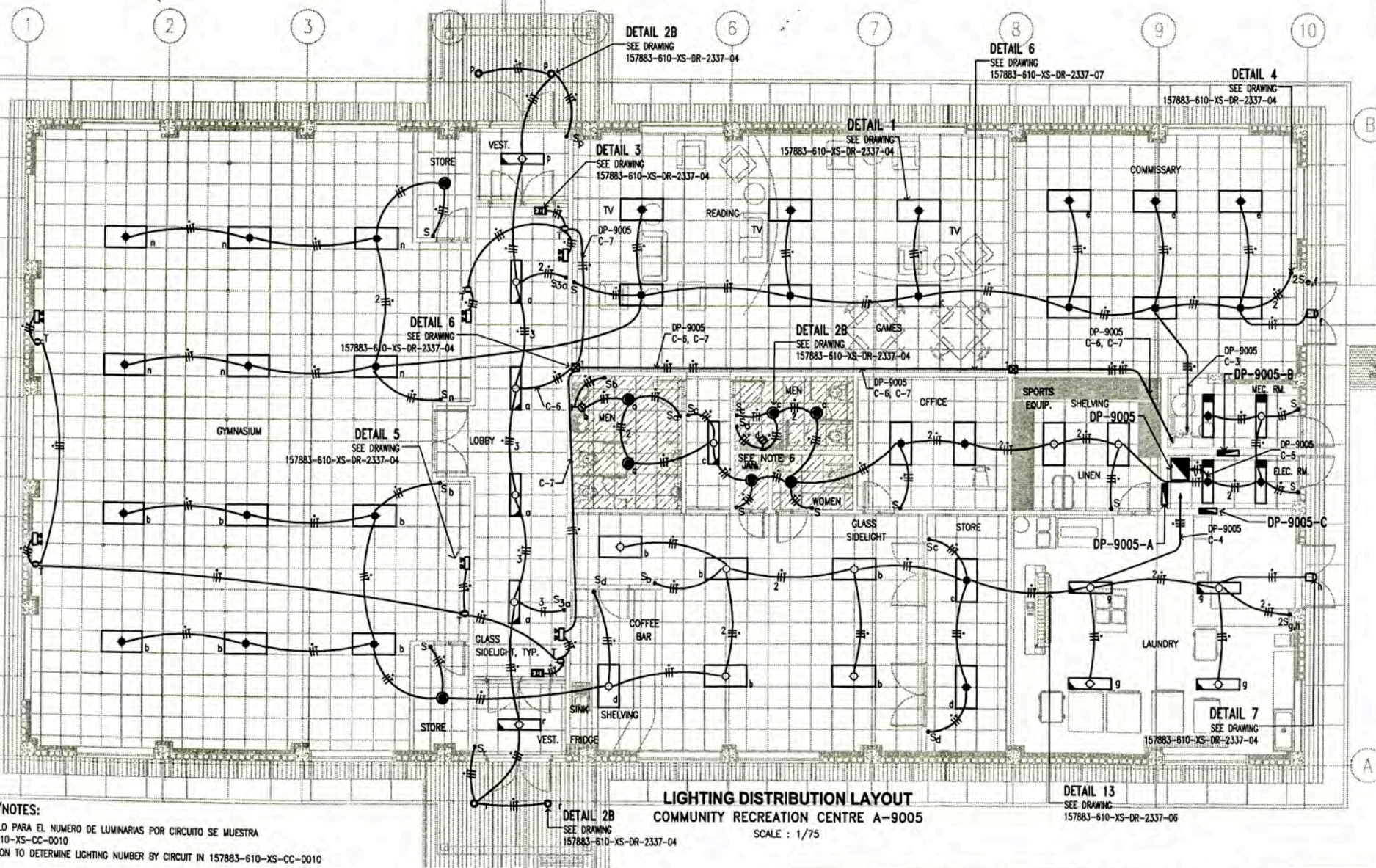
NOTAS/NOTES

- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0004.
THE ELECTRICAL CABLE SCHEDULE AND PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0004.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XR-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XR-SH-0001



NO.	FECHA	DESCRIPCION	APROBADO	REVISADO	REVISOR
0	14/10/08	ISSUED FOR CONSTRUCTION	WPA	MEJ	
1	157883-610-XS-DR-2337-07	PCB - ELECTRICAL INSTALLATIONS DETAILS AND NOTES			
2	157883-610-XS-DR-2337-08	PCB - HVAC INSTALLATION DETAILS AND NOTES			
3	157883-610-XS-DR-2035-03	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004A, DP-9005 & DP-9005A			
4	157883-610-XS-DR-1360-01	HVAC GENERAL A-9004			
5	157883-610-XS-DR-1331-01	LIGHTING DISTRIBUTION LAYOUT - COMMUNITY WAREHOUSE A-9004			
6	157883-610-XS-DR-1331-02	POWER AND RECEPTACLE OUTLETS LAYOUT - COMMUNITY WAREHOUSE A-9004			

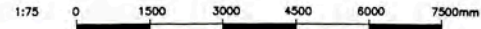
 UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS COMMUNITY WAREHOUSE A-9004	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING NO: 157883-610-XS-DR-1331-03	DRAWING BY: WPA CHECKED BY: COU DATE: 12/12/08	DESIGNED BY: COU REVISIONS: 0 PROJECT No: 1618
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCALIDAD: PAMPA MELCHORITA	APPROVED BY: JMG REVISION: 0	DRAWING #1: 157883-610-XS-DR-1331-03



LIGHTING DISTRIBUTION LAYOUT
COMMUNITY RECREATION CENTRE A-9005
SCALE: 1/75

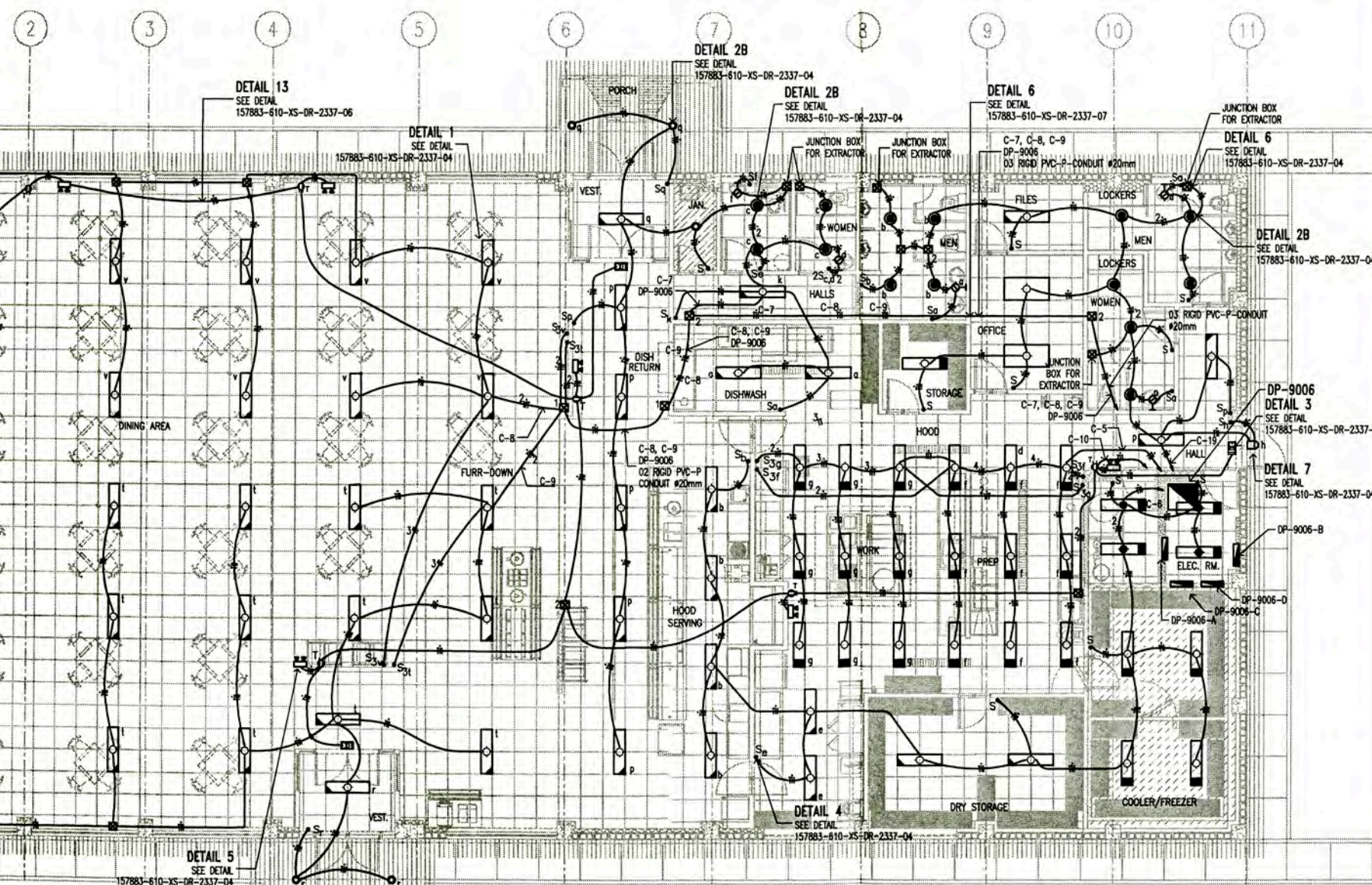
- NOTAS/NOTES:**
- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
CALCULATION TO DETERMINE LIGHTING NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026
THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION
LIGHTING FIXTURE WILL THIS PRESENTATION
- INDICATES LIGHTING FIXTURE
 INDICATES SWITCH
- THE EQUIPMENT LIGHTING FOR THE BATHROOM MIRROR WILL BE THE LUMINAIRE BLP WITH 01 COMPACT FLUORESCENT LAMP OF 18W.
EL EQUIPO DE ILUMINACION PARA EL ESPEJO DEL BAÑO SERA LA

• 2S _{a,b}	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
• 2S _{3a,b}	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
• S _{3a}	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. 01 3-WAY SWITCH 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
• 2S _{3a,3b}	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
⊠ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO ROOF



LEYENDA / LEGEND			
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION	CAJAS / BOX (mm)	ALTURA / HEIGHT (m)
	ARTEFACTO RES-A/2'x4'/3TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 3TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	ARTEFACTO RES-A/2'x4'/4TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 04 LAMPARAS FLUORESCENTES, RECTAS TLD 36 W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 4TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 04 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	ARTEFACTO RES-A/1'x4'/2TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC FLUORESCENT LIGHTING FIXTURE RES-A / 1'x4' / 2TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	ARTEFACTO AHR-2/2TLD 36W/E DE JOSFEL, ADOADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC FLUORESCENT LIGHTING FIXTURE AHR-2/2TLD 36W / E, OF JOSFEL, ATTACHED IN FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	ARTEFACTO AHR-2/2TLD 36W/E DE JOSFEL, ADOADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. 220VAC FLUORESCENT LIGHTING FIXTURE AHR-2/2TLD 36W / E, OF JOSFEL, ATTACHED IN FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	LUMINARIA ALPHA SPOT H-205/2x18W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC LUMINARIES ALPHA SPOT H-205/2x18W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	LUMINARIA ALPHA SPOT H-205/2x26W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 26W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC LUMINARIES ALPHA SPOT H-205/2x26W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 26W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CIELO RASO CEILING
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1Φ, CON ALTO F.D.P. IP65. MODELO RSP DE JOSFEL WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1Φ, WITH HIGH FDP, IP65. MODEL OF RSP JOSFEL	---	2.20
	LUMINARIA DE SEÑALIZACION, CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1Φ, CON ALTO F.D.P. MODELO LE-AP/AT DE JOSFEL EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1Φ, WITH HIGH FDP LE-AP/AT MODEL JOSFEL	---	2.20
	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 26W DE JOSFEL, PARA ADOAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTOGONAL 100x40	2.20m
	LUMINARIA BPL-262/1TC-D18/OPALINO/BL, PARA ADOAR EN PARED CON DIFUSOR DE ACRILICO OPALINO BLANCO, EQUIPO CON BALASTO ELECTRONICO, CON 01 LAMPARA FLUORESCENTE COMPACTA 18W, 220VAC. MARCA JOSFEL LIGHTING FIXTURE BPL-262/1TC-D18/OPALINO/BL, OPAL ATTACHED TO WALL WITH ACRYLIC OPALINE DIFUSOR WHITE TEAM, WITH ELECTRONIC BALLAST WITH 01 COMPACT FLUORESCENT LAMP OF 18W, 220VAC. JOSFEL	OCTOGONAL 100x40	2.20m
	TABLERO ELECTRICO EMPOTRADO PANELBOARD EMBEDDED.	---	1.80 BORDE SUPERIOR 1.80 TOP
	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIGAS PLANAS Y REDONDAS CON TOMA A TIERRA, 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIE MAGIC, MARCA BITICINO (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054). DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MAGIC SERIES, BITICINO BRAND (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
	CONDUCTO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30

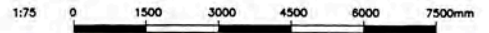
157883-610-XS-CC-0013 157883-610-XS-DR-2035-03 157883-610-XS-DR-2035-04 157883-610-XS-DR-2337-04 157883-610-XS-DR-1431-07 157883-610-XS-DR-1431-04		ILLUMINATION LEVEL CALCULATION - COMMUNITY RECREATION CENTER A-9005 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006, DP-9006-A AND DP-9006-B ELECTRICAL INSTALLATION DETAILS AND NOTES POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - COMMUNITY RECREATION CENTER A-9005 POWER AND RECEPTACLE OUTLETS LAYOUT - COMMUNITY RECREATION CENTER A-9005 TITLE TITLE		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) PAMPA MELCHORITA		PERMANENT COMMUNITY BUILDINGS LIGHTING DISTRIBUTION LAYOUT COMMUNITY RECREATION CENTRE A-9005 DESIGNED BY: WPA CHECKED BY: COU REVISION: 01/07/08 PROJECT NO: 1618 REVISION: 0 DRAWING NO: 157883-610-XS-DR-1431-01	
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LIGHTING DISTRIBUTION LAYOUT
DINING/MESS A-9006
SCALE: 1/75

NOTA/NOTE:

- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
CALCULATION TO DETERMINE LIGHTING NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026
THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
 - EL LISTADO DE CARGAS ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION LIGHTING FIXTURE WILL THIS PRESENTATION
- INDICATES LIGHTING FIXTURE
 INDICATES SWITCH
- THE EQUIPMENT LIGHTING FOR THE BATHROOM MIRROR WILL BE THE LUMINAIRE BLP WITH 01 COMPACT FLUORESCENT LAMP OF 18W.
EL EQUIPO DE ILUMINACION PARA EL ESPEJO DEL BAO SERA LA LUMINARIA BLP CON 01 LAMPARA FLUORESCENTE COMPACTA DE 18W

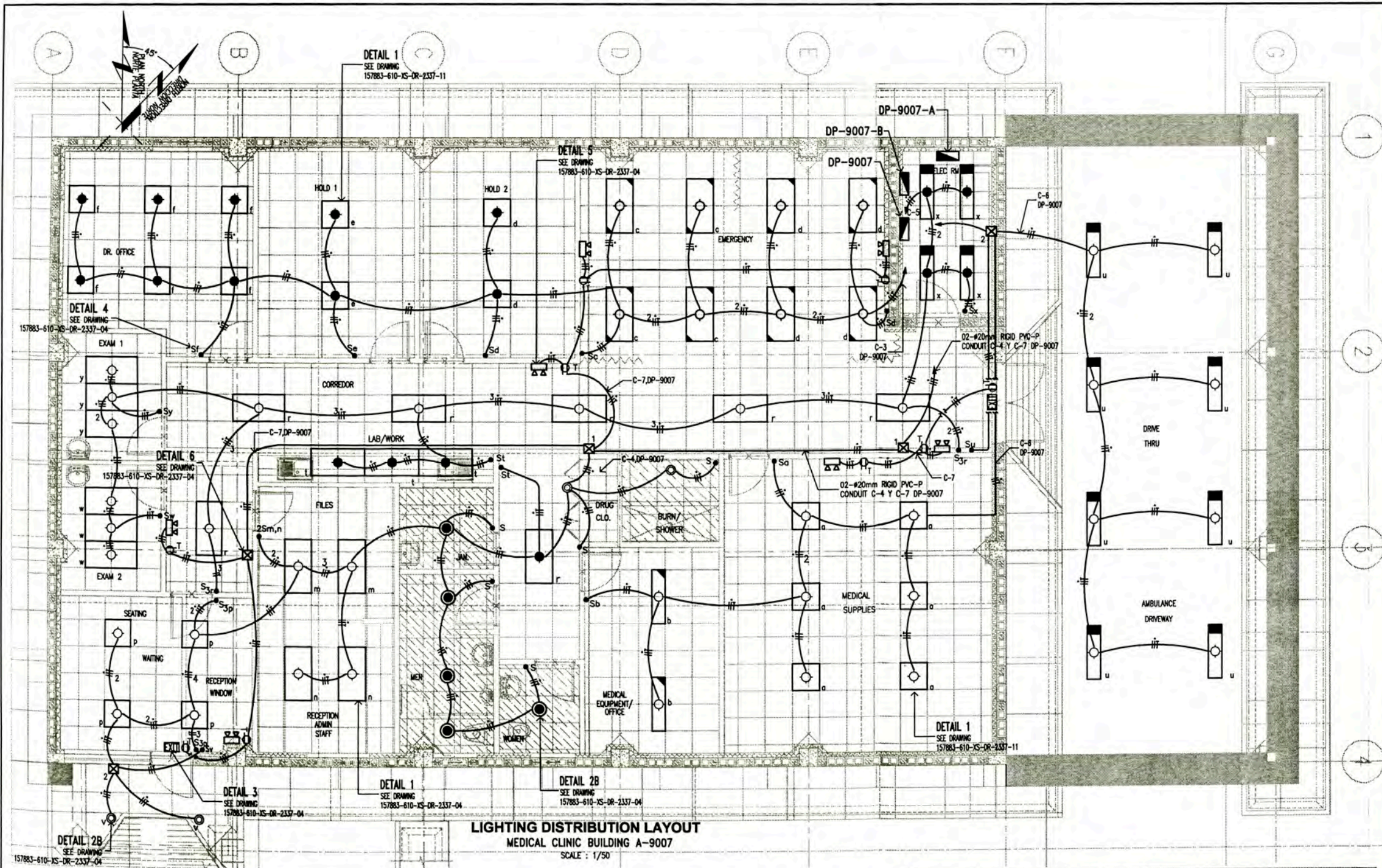


• 2S _{3a,b}	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30m
• S _{3a}	01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30m
• 2S _{3a,3b}	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30m
⊗ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX OF SCAME	RECTANGULAR	TECHO
⊗ 2	PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	ROOF

LEYENDA / LEGEND

SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/BOX(mm)	ALTURA/HEIGHT(m)
	ARTEFACTO RES-A/2'x4'/3TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 3TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CEILINGS
	ARTEFACTO RES-A/1'x4'/2TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE RES-A / 1'x4' / 2TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILINGS, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CEILINGS
	ARTEFACTO AHR-Z/2TLD 36W/E. DE JOSFEL, ADOSADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE AHR-Z/2TLD 36W / E. OF JOSFEL, ATTACHED IN FALSE CEILINGS, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. 220VAC	OCTOGONAL 100x40	CEILINGS
	ARTEFACTO AHR-Z/2TLD 36W/E. DE JOSFEL, ADOSADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE AHR-Z/2TLD 36W / E. OF JOSFEL, ATTACHED IN FALSE CEILINGS, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTOGONAL 100x40	CEILINGS
	LUMINARIA ALPHA SPOT H-205/2x18W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	LUMINARIES ALPHA SPOT H-205/2x18W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CEILINGS
	LUMINARIA ALPHA SPOT H-205/2x26W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 26W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	LUMINARIES ALPHA SPOT H-205/2x26W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 26W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTOGONAL 100x40	CEILINGS
	LUMINARIA BPL-282/1TC-D18-OPALINO/BL. PARA ADOSAR EN PARED CON DIFUSOR DE ACRILICO OPALINO BLANCO, EQUIPO CON BALASTO ELECTRONICO, CON 01 LAMPARA FLUORESCENTE COMPACTA 18W, 220VAC. MARCA JOSFEL	OCTOGONAL 100x40	2.00m
	LIGHTING FIXTURE BPL-282/1TC-D18-OPALINO/BL. ATTACHED TO WALL WITH ACRYLIC OPALINE DIFFUSOR WHITE TEAM, WITH ELECTRONIC BALLAST WITH 01 COMPACT FLUORESCENT LAMP OF 18W, 220VAC. JOSFEL	OCTOGONAL 100x40	2.00m
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1φ, CON ALTO F.D.P., IP65. MODELO RSP DE JOSFEL	---	2.20m
	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1φ, WITH HIGH-FDP, IP65. MODEL OF RSP JOSFEL	---	2.20m
	LUMINARIA DE SEÑALIZACION; CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1φ, CON ALTO F.D.P. MODELO LE-AP/AT DE JOSFEL	---	2.20m
	EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1φ, WITH HIGH FFP LE-AP/AT MODEL JOSFEL	---	2.20m
	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 26W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	2.20m
	EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTOGONAL 100x40	2.20m
	TABLERO ELECTRICO EMPOTRADO	---	1.80 BORDE SUPERIOR
	PANELBOARD EMBEDDED.	---	1.80 TOP
	CAJA DE PASO DE PVC TIPO PESADO 100x60x60mm	RECTANGULAR	TECHO/PARED
	PVC JUNCTION BOX TYPE HEAVY 100x60x60mm	RECTANGULAR	ROOF/WALL
	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIGAS PLANAS Y REDONDAS CON TOMA A TIERRA, 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIE MAGIC, MARCA BITICINO (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20m
	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MAGIC SERIES, BITICINO BRAND (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20m
	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
	CONDUCTO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED.	---	---
	Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
• S	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30m
• S ₀	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30m
• S ₀	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30m
• S ₀	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30m
• 2S _{0,a,b}	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30m
• 2S _{0,a,b}	02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30m

157883-610-XS-CC-0014 157883-610-XS-DR-2337-07 157883-610-XS-DR-2337-07 157883-610-XS-DR-2035-04 157883-610-XS-DR-1431-08 157883-610-XS-DR-1431-08		ILLUMINATION LEVEL CALCULATION - DINING/MESS A-9006 ELECTRICAL INSTALLATION DETAILS AND NOTES ELECTRICAL INSTALLATION DETAILS AND NOTES ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006-A, DP-9006-B POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - DINING/MESS A-9006 POWER AND RECEPTACLE OUTLETS LAYOUT - DINING/MESS A-9006		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS DINING/MESS A-9006 SCALE: 1/75		PERMANENT COMMUNITY BUILDINGS LIGHTING DISTRIBUTION LAYOUT DINING/MESS A-9006		DESIGNED BY: WPA CHECKED BY: COU DATE: 01/07/08		APPROVED BY: FTA PROJECT NO: 1618 REVISION: 0		DRAWING NO: 157883-610-XS-DR-1431-02	
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**LIGHTING DISTRIBUTION LAYOUT
MEDICAL CLINIC BUILDING A-9007**
SCALE: 1/50

NOTAS/NOTES:

- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010. CALCULATION TO DETERMINE LIGHTING NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010.
- LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026. THE LIGHTING FIXTURE IS ACCORDING TO DATA SHEET 157883-610-XS-DS-0026.
- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002. THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.
- LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION LIGHTING FIXTURE WILL THIS PRESENTATION

INDICATES LIGHTING FIXTURE
 INDICATES SWITCH
 INDICATES EXIT SIGN LIGHTING FIXTURE

1:50 0 1000 2000 3000 4000 5000mm

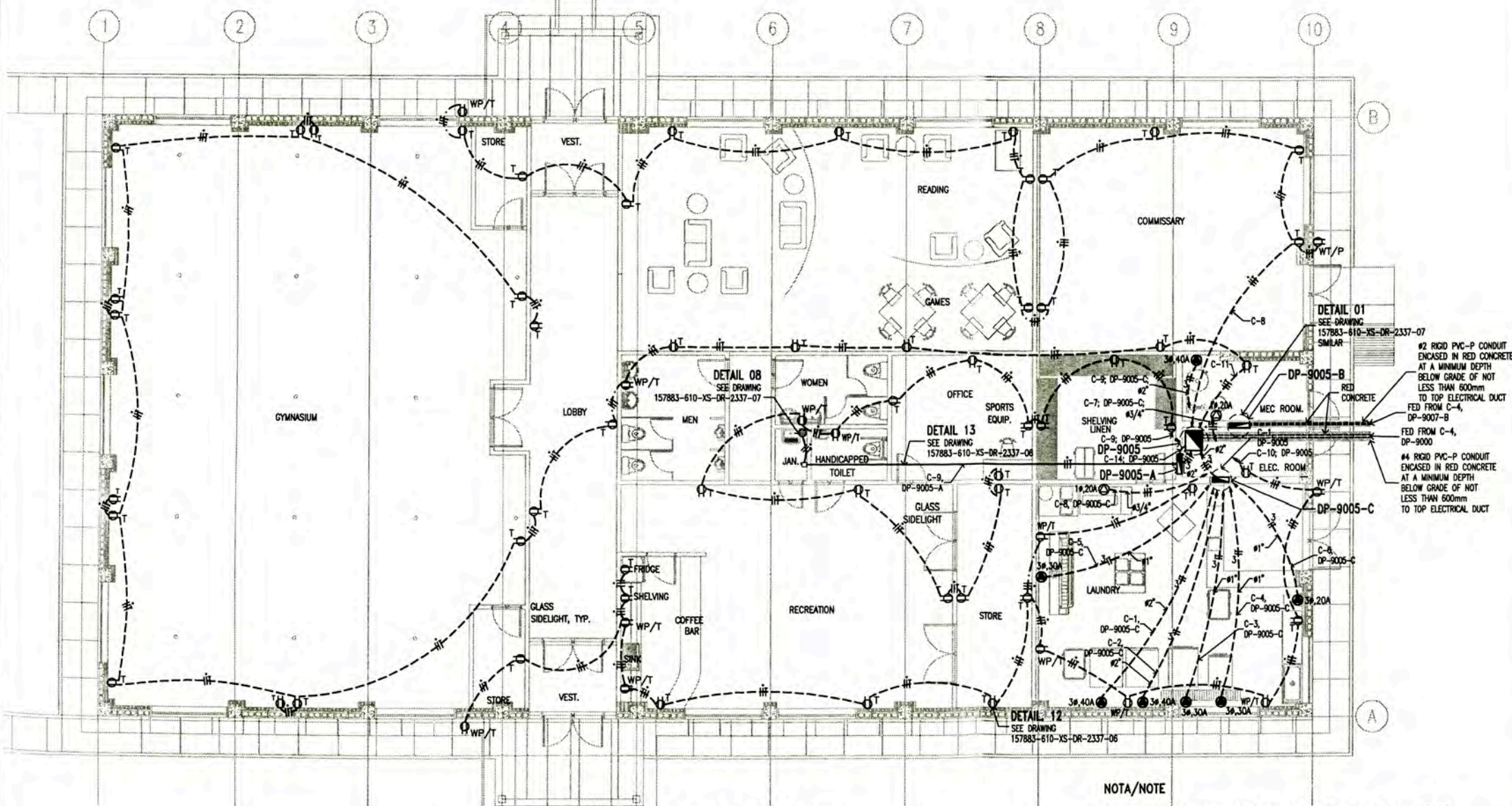
SYMBOL	DESCRIPTION	QUANTITY	UNIT
• 2S _{3a,b}	01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	1.30	RECTANGULAR 100x55x40
• S _{3a}	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. 01 3-WAY SWITCH 16A, 250VAC, 60HZ.	1.30	RECTANGULAR 100x55x40
• 2S _{3a,3b}	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	1.30	RECTANGULAR 100x55x40
⊠ ₁	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME. PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME.	TECHO	RECTANGULAR
⊠ ₂	CAJA DE PASO DE PVC DE 190x140x60mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME. PVC PULL BOX 190x140x60mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME.	TECHO	RECTANGULAR
EXIT	LUMINARIA DE SEÑALIZACION, CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1A, CON ALTO F.O.P. MODELO LE-AP/AT DE JOSFEL. EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1A, WITH HIGH FOP LE-AP/AT MODEL JOSFEL.	2.20	RECTANGULAR 100x55x40

SYMBOL	DESCRIPTION	QUANTITY	UNIT
—+—	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
—T—	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
()	CONDUCTO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
()	CONDUCTO DE PVC-P CONDUIT #20mm, EMPOTRADO EN PISO. Ø20mm RIGID PVC-P CONDUIT, EMBEDDED FLOOR.	---	---
• S	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	1.30	RECTANGULAR 100x55x40
• S _o	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	1.30	RECTANGULAR 100x55x40
• 2S _{a,b}	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B. 02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	1.30	RECTANGULAR 100x55x40

LEYENDA / LEGEND			
SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/BOX(mm)	ALTURA/HEIGHT(m)
⊠	ARTEFACTO RES-A/2'x2'/3TLD 18W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x2' / 3TLD 18W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO RES-A/2'x2'/4TLD 18W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 04 LAMPARAS FLUORESCENTES, RECTAS TLD 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x2' / 4TLD 18W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 04 FLUORESCENT LAMPS, RECTUM TLD 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO RES-A/2'x4'/3TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 36 W, EQUIPADO CON BALASTO ELECTRONICO, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 3TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS. WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO AHR-Z/2TLD 36W/E DE JOSFEL, SUSPENDIDO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE AHR-Z/2TLD 36W / E OF JOSFEL, PENDANT MOUNT, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO RES-A/1'x4'/2TLD 36W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 1'x4' / 2TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO AHR-Z/2TLD 36W/E DE JOSFEL, ADOADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE AHR-Z/2TLD 36W/E OF JOSFEL, ATTACHED IN FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	LUMINARIA ALPHA SPOT H-205/2X18WTC-0/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	LUMINARIA ALPHA SPOT H-205/2X18WTC-0/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	LUMINARIA ALPHA SPOT H-205/2X26WTC-0/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 26W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	LUMINARIA ALPHA SPOT H-205/2X26WTC-0/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 26W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO RES-A/2'x4'/3TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 36 W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 3TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	ARTEFACTO RES-A/2'x4'/4TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 04 LAMPARAS FLUORESCENTES, RECTAS TLD 36 W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC.	OCTOGONAL 100x40	CIELO RASO
⊠	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 4TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 04 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC.	OCTOGONAL 100x40	CEILING
⊠	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 26W DE JOSFEL, PARA ADOAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA LIBRE DE MANTENIMIENTO. 220VAC.	OCTOGONAL 100x40	2.20m
⊠	EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC.	OCTOGONAL 100x40	2.20m
⊠	TABLERO ELECTRICO EMPOTRADO	---	1.80 BORDE SUPERIOR
⊠	PANELBOARD EMBEDDED.	---	1.80 TOP
⊠	CAJA DE PASO DE PVC TIPO PESADO 100x60x60mm	RECTANGULAR	TECHO/PARED
⊠	PVC JUNCTION BOX TYPE HEAVY 100x60x60mm	RECTANGULAR	ROOF/WALL
⊠	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIRAS PLANAS Y REDONDAS CON TOMA A TIERRA. 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIA, MARCA BTRCNO (EC-60669-1, EC-60684-1, EC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
⊠	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MARC SERIES, BTRCNO BRAND (EC-60669-1, EC-60684-1, EC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20



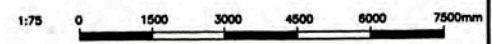
PLAN NORTH
NORTE PLANTA



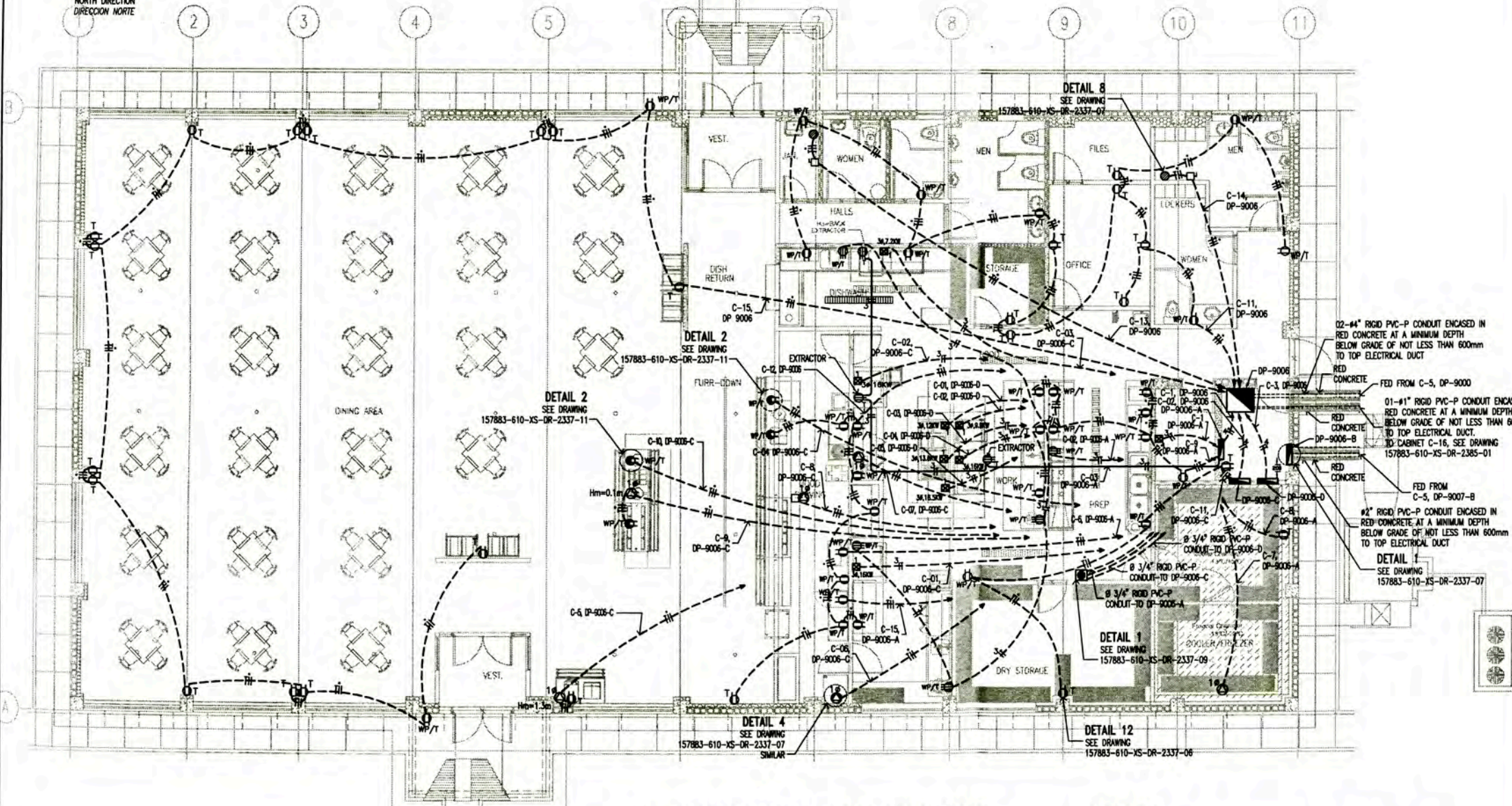
POWER AND RECEPTACLE OUTLETS LAYOUT
COMMUNITY RECREATION CENTRE A-9005
PLANT
SCALE : 1/75

- NOTA/NOTE**
- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm2 (FASE), 4mm2 (NEUTRO) Y 4mm2 (TIERRA), AISLAMIENTO THW
THE CIRCUIT RECEPTACLE OUTLES SHALL HAVE A SIZE MINIMUM OF 4mm2 (PHASE), 4mm2 (NEUTRAL) AND 4mm2 (GROUND), INSULATION THW.
 - EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA 157883-610-XS-CC-0010
CALCULATION TO DETERMINE RECEPTACLE NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LOS TOMACORRIENTES ESTARAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028.
RECEPTACLE OUTLET IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028.
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE AND CONDUIT SCHEDULE IS SHOWN IN 157883-610-XS-SH-0002.
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001.
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA(m) HEIGHT(m)
[Symbol]	PANEL ELECTRICO EMPOTRADO PANELBOARD EMBEDDED	-	1.80 BORDE SUPERIOR 1.80 TOP
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA. DUPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA. DUPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. LISTADO "UL" DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL "UL" LISTED	RECTANGULAR 100x55x40	1.50m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	--	--
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	--	--
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	--	--
[Symbol]	THERMA ELECTRICA 2.5KW, 220VAC, 1ø	--	0.45m
[Symbol]	WATER HEATERS 2.5KW, 220VAC, 1ø.	--	0.45m
[Symbol]	INTERRUPTOR DIFERENCIAL "ID" DE 1x20A, 220VAC, 10KA, ADOSSADO A PARED. IPS4. GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, ATTACHED WALL. IPS4.	--	1.30m
[Symbol]	CONDUCTO RIGIDO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED	--	--
[Symbol]	RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE	--	--
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN MURO	--	--
[Symbol]	RIGID PVC-P CONDUIT. EMBEDDED WALL	--	--
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	--	--
[Symbol]	RIGID PVC-P CONDUIT. EMBEDDED UNDER FLOOR.	--	--
[Symbol]	SALIDA DE FUERZA 1ø, P+N+T, 20A, 220VAC 60Hz. GRADO DE PROTECCION IPS4. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	RECEPTACLE P+N+G, 20A, 220VAC, 60Hz. PROTECTION IPS4. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 20A, 380VAC 60Hz. GRADO DE PROTECCION IPS4. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	RECEPTACLE 3P + G, 20A, 380VAC, 60Hz. PROTECTION IPS4. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 30A, 380VAC 60Hz. GRADO DE PROTECCION IPS4. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	RECEPTACLE 3P + G, 30A, 380VAC, 60Hz. PROTECTION IPS4. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 40A, 380VAC 60Hz. GRADO DE PROTECCION IPS4. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m
[Symbol]	RECEPTACLE 3P + G, 40A, 380VAC, 60Hz. PROTECTION IPS4. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	--	0.45m



157883-610-XS-DR-2035-12 157883-610-XS-DR-2035-03 157883-610-XS-DR-2035-04 157883-610-XS-DR-2337-08 157883-610-XS-DR-1431-07 157883-610-XS-DR-1431-01		ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9005-C ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006, DP-9006-A AND DP-9006-B PCB ELECTRICAL INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS COMMUNITY RECREATION CENTRE A-9005 LIGHTING DISTRIBUTION LAYOUT COMMUNITY RECREATION CENTRE A-9005		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) PAMPA MELCHORITA		PERMANENT COMMUNITY BUILDINGS POWER AND RECEPTACLE OUTLETS LAYOUT COMMUNITY RECREATION CENTRE A-9005 157883-610-XS-DR-1431-04	
ISSUED FOR CONSTRUCTION 14/08/08 WPA MEJ MEJ	DESIGNED BY CHECKED BY APPROVED BY DATE	PROJECT NO. SPECIALTY LOCATION SCALE	DRAWING NO. SHEET NO. DATE TECH.	DESIGNED BY CHECKED BY APPROVED BY DATE	PROJECT NO. SPECIALTY LOCATION SCALE	DRAWING NO. SHEET NO. DATE TECH.	



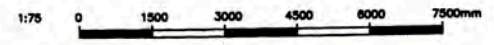
POWER AND RECEPTACLE OUTLETS LAYOUT
DINING MESS HALL A-9006
 SCALE : 1/75

NOTA/NOTE

- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA), ASLAMIENTO THW. THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND), INSULATION THW.
- EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA 157883-610-XS-CC-0010 CALCULATION TO DETERMINE RECEPTACLE OUTLETS NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
- LOS TOMACORRIENTES DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028 RECEPTABLES OUTLETS IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028
- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS SE MUESTRA EN 157880-610-XS-SH-0002 THE ELECTRICAL CABLE SCHEDULE AND CONDUIT SCHEDULE ARE SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001

LEYENDA / LEGEND

SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/BOX(mm)	ALTURA/HEIGHT(m)
[Symbol]	PANEL ELECTRICO EMPOTRADO	-	1.80 BORDE SUPERIOR
[Symbol]	PANELBOARD EMBEDDED	-	1.80 TOP
[Symbol]	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 100x100x60mm EMPOTRADO.	CUADRADA	0.45m
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 100x100x60mm EMBEDDED.	SQUARE	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	2.20m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+N+T, 1Ø, 3Ø VAC 60 Hz. GRADO DE PROTECCION IP44. MODELO TEMPRA, MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	CUADRADA 84x84x43	2.20m
[Symbol]	RECEPTACLE 3P+N+G, 1Ø, 3Ø VAC 60 Hz. PROTECTION IP44. MODEL TEMPRA, BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	SQUARE 84x84x43	2.20m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+N+T, 1Ø, 3Ø VAC 60 Hz. GRADO DE PROTECCION IP44. MODELO TEMPRA, MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529). A PRUEBA DE AGUA.	CUADRADA 84x84x43	0.45m
[Symbol]	RECEPTACLE 3P+N+G, 1Ø, 3Ø VAC 60 Hz. PROTECTION IP44. MODEL TEMPRA, BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529). WEATHERPROOF	SQUARE 84x84x43	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.10m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.10m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
[Symbol]	THERMA ELECTRICA 2.0KW, 220VAC, 1ø	---	2.20m
[Symbol]	WATER HEATERS 2.0KW, 220VAC, 1ø.	---	2.20m
[Symbol]	INTERRUPTOR DIFERENCIAL "ID" DE 1x20A, 220VAC, 10KA, ADOSADO A PARED	---	1.30m
[Symbol]	GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, ATTACHED WALL	---	1.30m
[Symbol]	SALIDA DE FUERZA 1ø, P+N+T, 20A, 220VAC 60Hz. GRADO DE PROTECCION IP54. MARCA LEGRAND. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529).	---	2.20m
[Symbol]	RECEPTACLE P+N+G, 20A, 220VAC, 60Hz. PROTECTION IP54. BRAND LEGRAND. INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529).	---	2.20m
[Symbol]	SALIDA DE FUERZA 1ø, P+N+T, 50A, 220VAC 60Hz. GRADO DE PROTECCION IP65. MODELO Bx60-V POR MARCA LEVITON. INCLUYE CAJA Y TAPA.	---	0.45m
[Symbol]	RECEPTACLE P+N+G, 50A, 220VAC, 60Hz. PROTECTION IP65. BRAND LEVITON MODEL 3771 INDUSTRIAL GRADE. INCLUDES COVER.	---	0.45m
[Symbol]	SALIDA DE FUERZA 1ø, P+N+T, 60A, 220VAC 60Hz. GRADO DE PROTECCION IP65. MODELO Bx60-V POR MARCA LEVITON. INCLUYE CAJA Y TAPA (IEC-309-01, IEC-309-02).	---	0.45m
[Symbol]	RECEPTACLE P+N+G, 60A, 220VAC, 60Hz. PROTECTION IP65. BRAND LEVITON MODELO Bx60-V. INCLUDES BOX AND COVER (IEC-309-01, IEC-309-02).	---	0.45m
[Symbol]	CONDUCTO RIGIDO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED	---	---
[Symbol]	RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL	---	---
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	---	---
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED UNDER FLOOR.	---	---
[Symbol]	BOTONERA ALLEN-BRADLEY, SERIE 800T. IEC 947-5-5, IP65 INCLUYE O3 CONTACTOS INC.	---	1.30m
[Symbol]	PUSH BUTTON ALLEN-BRADLEY, SERIE 800T. IEC 947-5-5, IP65 INCLUDES O3 CONTACTS INC.	---	1.30m



157883-610-XS-DR-2033-13	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-C AND DP-9006-D
157883-610-XS-DR-2033-04	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006, DP-9006-A AND DP-9006-B
157883-610-XS-DR-2337-07	PCB ELECTRICAL INSTALLATIONS DETAILS AND NOTES
157883-610-XS-DR-2337-08	PCB ELECTRICAL INSTALLATIONS DETAILS AND NOTES - SHEET 2 OF 2
157883-610-XS-DR-1431-08	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS DINING MESS HALL (A-9006)
157883-610-XS-DR-1431-02	LIGHTING DISTRIBUTION LAYOUT DINING MESS HALL (A-9006)

UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
 PAMPA MELCHORITA

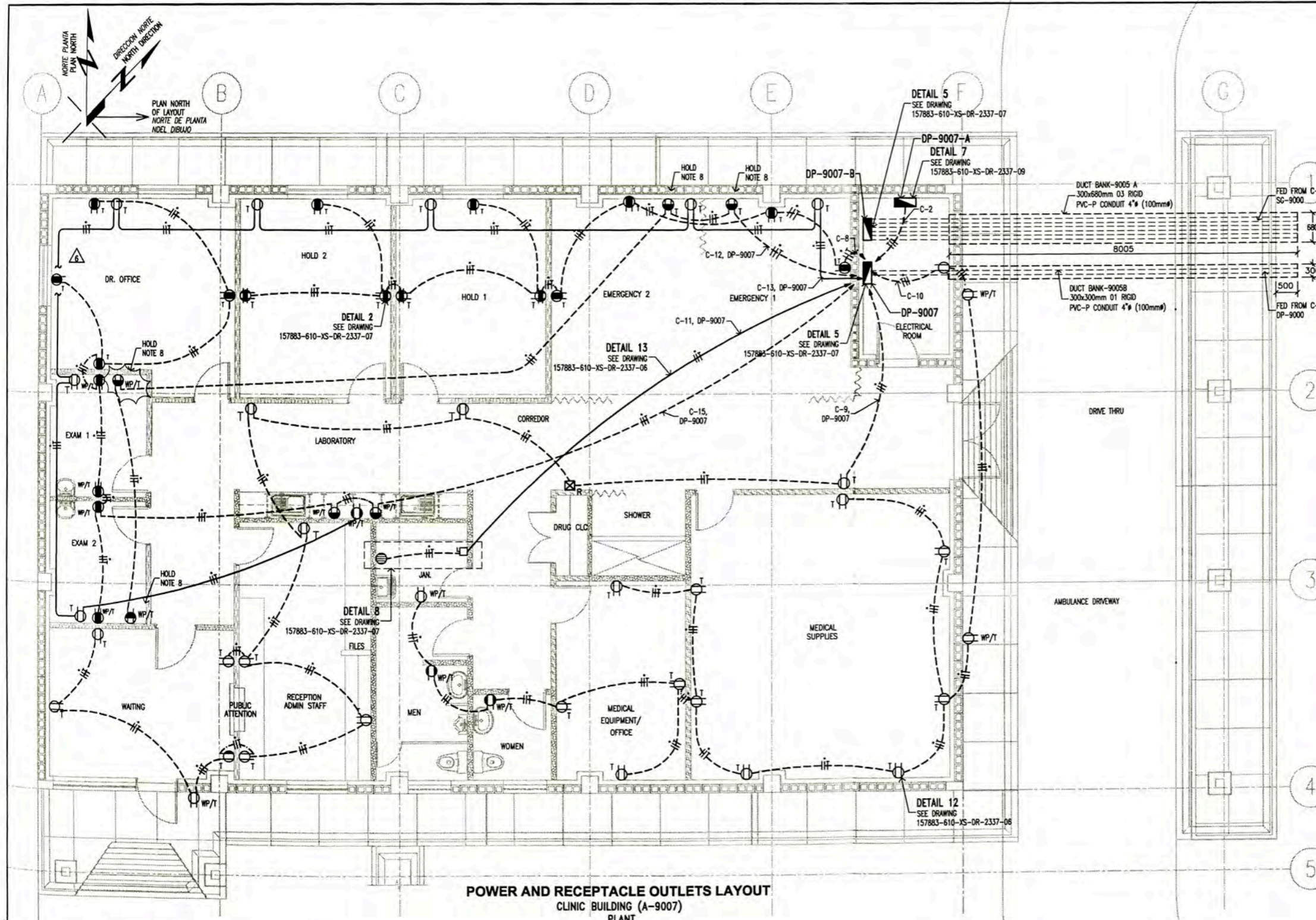
PERMANENT COMMUNITY BUILDINGS
POWER AND RECEPTACLE OUTLETS LAYOUT
DINING MESS HALL A-9006

DESIGNED BY: WPA
 CHECKED BY: COU
 DATE: 01/07/08

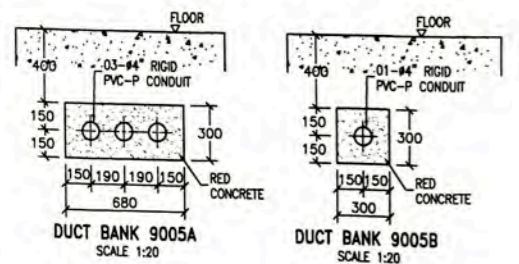
APPROVED BY: FTA
 PROJECT NO: 1618

APPROVED BY: JMG
 REVISION: 0

DRAWING NO: 157883-610-XS-DR-1431-05



POWER AND RECEPTACLE OUTLETS LAYOUT
CLINIC BUILDING (A-9007)
PLANT
SCALE : 1/50

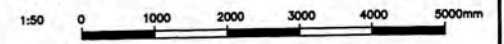


NOTA/NOTE

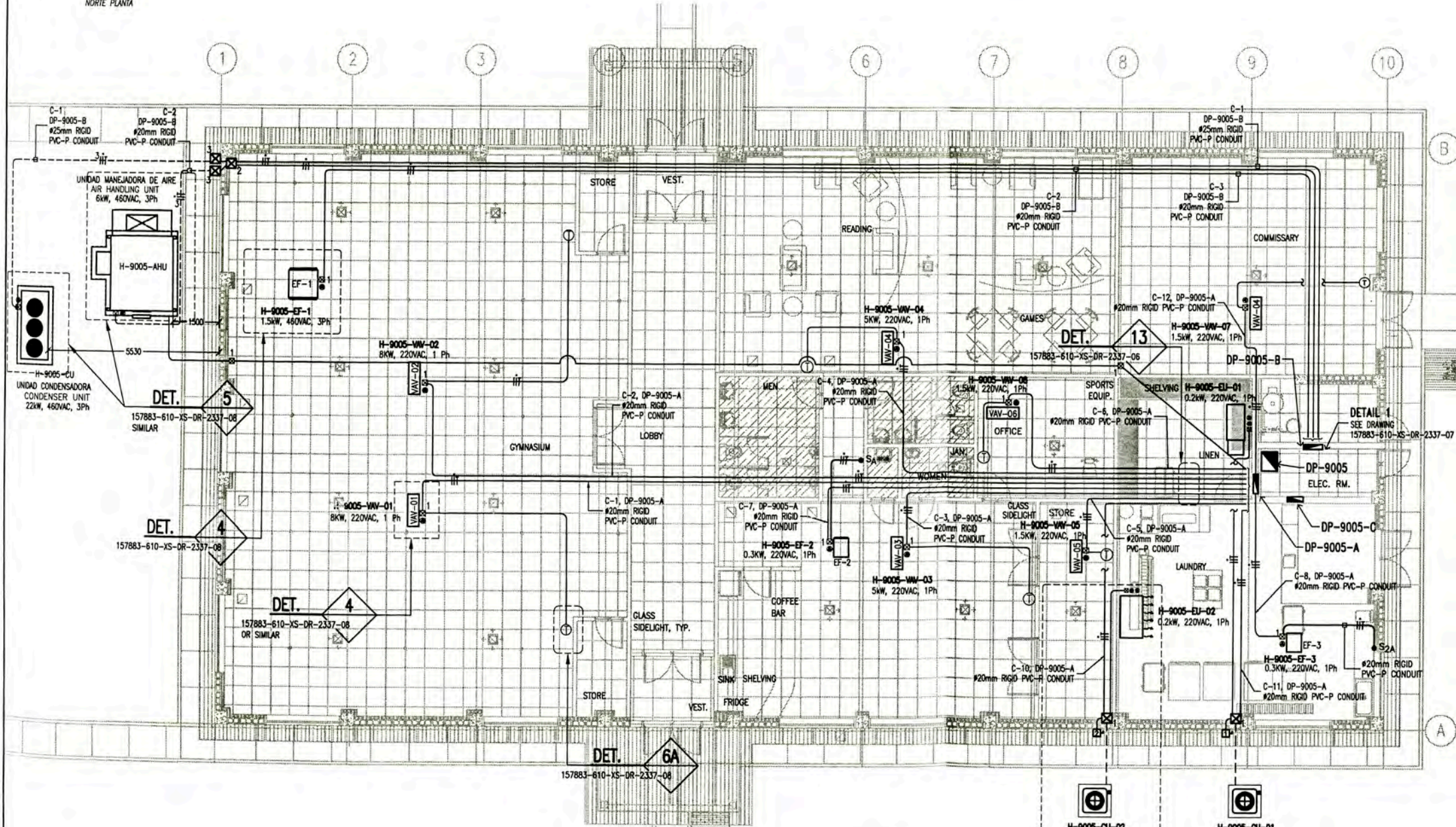
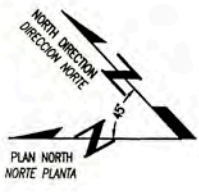
- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA), AISLAMIENTO THW
 THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² (PHASE), (NEUTRAL) AND 4mm² (GROUND), INSULATION THW.
- EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA 157883-610-XS-CC-0010
 CALCULATION TO DETERMINE RECEPTABLES OUTLET NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
- LOS TOMACORRIENTES INTERNOS ESTARAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028 RECEPTACLE OUTLET, IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028
- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157880-610-XS-SH-0002
 THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157880-610-XS-SH-0002.

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA/ HEIGHT(m)
[Symbol]	PANEL ELECTRICO EMPOTRADO PANELBOARD EMBEDDED	-	1.80 BORDE SUPERIOR 1.80 TOP
[Symbol]	CAJA DE PISO RECTANGULAR 100x55x50mm EMPOTRADA A PARED. RECTANGULAR JUNCTION BOX TYPE HEAVY 100x55x50mm	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. GRADO DE HOSPITAL, MODELO 8300, MARCA LEVINTON DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, HOSPITAL GRADE, MODEL 8300, BRAND LEVINTON	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. GRADO DE HOSPITAL, MODELO 8300, MARCA LEVINTON DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, HOSPITAL GRADE, MODEL 8300, BRAND LEVINTON	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE CUADRUPLER CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. GRADO DE HOSPITAL, MODELO 8300, MARCA LEVINTON QUADPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL, HOSPITAL GRADE, MODEL 8300, BRAND LEVINTON	RECTANGULAR SQUARE	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA, GRADO DE HOSPITAL, MODELO 8300, MARCA LEVINTON DUPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, HOSPITAL GRADE, MODEL 8300, BRAND LEVINTON	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. GRADO DE HOSPITAL, MODELO 8300, MARCA LEVINTON DUPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL, HOSPITAL GRADE, MODEL 8300, BRAND LEVINTON	RECTANGULAR RECTANGULAR	1.30m 1.30m
[Symbol]	TOMACORRIENTE CON TOMA A TIERRA PARA EQUIPO DE RAYOS X, DE ACUERDO A HOJA TECNICA DE CBI RECEPTACLE OUTLET WITH GROUNDING FOR X-RAY MACHINE SHALL BE ACCORDING TO DATA SHEET OF CBI	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE A PRUEBA DE AGUA CON TOMA A TIERRA PARA EQUIPO DE RAYOS X, DE ACUERDO A HOJA TECNICA DE CBI RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING FOR X-RAY MACHINE SHALL BE ACCORDING TO DATA SHEET OF CBI	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA. DUPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL	RECTANGULAR RECTANGULAR	0.45m 0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA. DUPLX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL	RECTANGULAR RECTANGULAR	1.30m 1.30m
[Symbol]	TOMACORRIENTE CUADRUPLER CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. QUADPLX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL	RECTANGULAR SQUARE	0.45m 0.45m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	-	-
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	-	-
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	-	-
[Symbol]	TERNA ELECTRICA 2.5KW, 220VAC, 1Φ	-	0.45m
[Symbol]	WATER HEATERS 2.5KW, 220VAC, 1Φ.	-	0.45m
[Symbol]	INTERRUPTOR DIFERENCIAL "D" DE 1x20A, 220VAC, 10KA, EMPOTRADO A PARED	-	1.30m
[Symbol]	GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, EMBEDDED WALL	-	1.30m
[Symbol]	CONDUCTO RIGIDO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED	-	-
[Symbol]	RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL	-	-
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN DRYWALL	-	-
[Symbol]	RIGID PVC-P CONDUIT, EMBEDDED DRYWALL	-	-
[Symbol]	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	-	-
[Symbol]	RIGID PVC-P CONDUIT, UNDER FLOOR.	-	-

- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
- HOLD 1 & 2 ESTA SEGUN AL DISEÑO BASICO DE CBI
 HOLD 1 & 2 ACCORDING BASIC DESIGN CBI
- EL EQUIPAMIENTO DE LA CLINICA SERA DEFINIDA POR CBI
 THE MEDICAL CLINIC EQUIPMENT SHALL BE DEFINED BY CBI
- EL TOMACORRIENTE PARA LA MAQUINA DE RAYOS X ESTARA DE ACUERDO A LA HOJA TECNICA DEL EQUIPO (PENDIENTE POR CBI)
 THE RECEPTACLE OUTLETS MODELS FOR X-RAY MACHINE SHALL BE ACCORDING TO DATA SHEET OF EQUIPMENTS (PENDING FOR CBI)



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS POWER AND RECEPTACLE OUTLETS LAYOUT MEDICAL CLINIC BUILDING (A-9007)	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		LOCATION: PAMPA MELCHORITA	
PROJECT ARCHITECT: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PROJECT ARCHITECT: 1618	
PROJECT ENGINEER:		DATE: 01/07/08	
PROJECT CHECKER:		REVISION: 0	
PROJECT APPROVER:		DRAWING NO: 157883-610-XS-DR-1431-06	

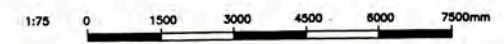


POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
COMMUNITY RECREATION CENTRE A-9005
 SCALE : 1/75

LEYENDA / LEGEND			
SIMBOLO SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS (mm) BOX (mm)	ALTURA/ HEIGHT(m)
☒ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO
☒ 2	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45
☒ 3	CAJA DE DISTRIBUCION IP66, 170x110x100mm, ADOSADO A PARED PARA USO EXTERIOR. INCLUYE INTERRUPTOR TERMICO DISTRIBUTION BOX IP66, 170x110x100mm, ATTACHED AT WALL, OUTDOOR USE. INCLUDED CIRCUIT BREAKER	RECTANGULAR	--
— —	CONDUCTOR DE FASE / PHASE CONDUCTOR	--	--
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	--	--
— —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	--	--
⊠	EQUIPO DE AIRE ACONDICIONADO - UNIDAD CONDENSADORA AIR CONDITIONING CONDENSER UNIT	--	--
EF	EXTRACTOR DE AIRE EXHAUST FAN	--	TECHO
⊠	SISTEMA DE VOLUMEN VARIABLE VARIABLE AIR VOLUMEN	--	TECHO
AHU	UNIDAD MANEJADORA DE AIRE AIR HANDLING UNIT	--	--
⊠	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	--	1.80 NIVEL SUP.
— —	CONDUCTO DE PVC-P, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE EMBEDDED WALL	--	--
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PISO. RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	--	--
T	TERMOSTATO THERMOSTAT	RECTANGULAR	1.30
Sx	INTERRUPTOR UNIPOLAR SIMPLE 20A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-2I CON CUBIERTA LEVINTON SINGLE POLE SWITCH, 20A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-2I WITH COVER. LEVINTON	RECTANGULAR 100x55x40	1.30
Sx, B	INTERRUPTOR UNIPOLAR DE 3 POSICIONES 20A, 250VAC, MODELO 1388-I CON CUBIERTA COLOR MARFIL LISTADO UL, POR HUBBELL. BIPOLAR SWITCH 3 POSICION 20A, 250VAC, MODEL 1388-I, FACE PLATE IVORY COLOR, UL LISTED, HUBBELL.	RECTANGULAR 100x55x40	1.30
S2A	INTERRUPTOR UNIPOLAR DE 1x20A, 220VAC, 10KA, ADOSADO A PARED. INCLUYE INTERRUPTOR DE FALLA A TIERRA. CAJA IP66 BREAKER 1x20A, 220VAC, 10KA, ATTACHED TO WALL INCLUDE GFCL BOX IP66	SQUARE 150x150x100	0.45
T	INTERRUPTOR UNIPOLAR DE 1x30A, 220VAC, 10KA, ADOSADO A PARED. INCLUYE INTERRUPTOR DE FALLA A TIERRA. CAJA IP66 BREAKER 1x30A, 220VAC, 10KA, ATTACHED TO WALL INCLUDE GFCL BOX IP66	SQUARE 150x150x100	0.45

NOTAS/NOTES

- EL DIAMETRO DE LOS CONDUCTOS SE MUESTRA EN 157883-610-XS-SH-0002
THE CONDUITS SIZES IS SHOW IN ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOWN IN 157883-610-XS-SH-0001



157883-610-XS-DR-2035-12	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9005-C
157883-610-XS-DR-2035-04	SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006, DP-9006-A, AND DP-9006-B
157883-610-XS-DR-2035-03	SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A
157883-610-XS-DR-2337-08	HVAC INSTALLATIONS DETAILS AND NOTES - PCB
157883-610-XS-DR-2337-06	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2 - PCB
157883-610-XS-DR-1481-01	HVAC GENERAL A-9005

UNIVERSIDAD NACIONAL DE INGENIERIA
 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PROYECTO: PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
 LOCALIDAD: PAMPA MELCHORITA

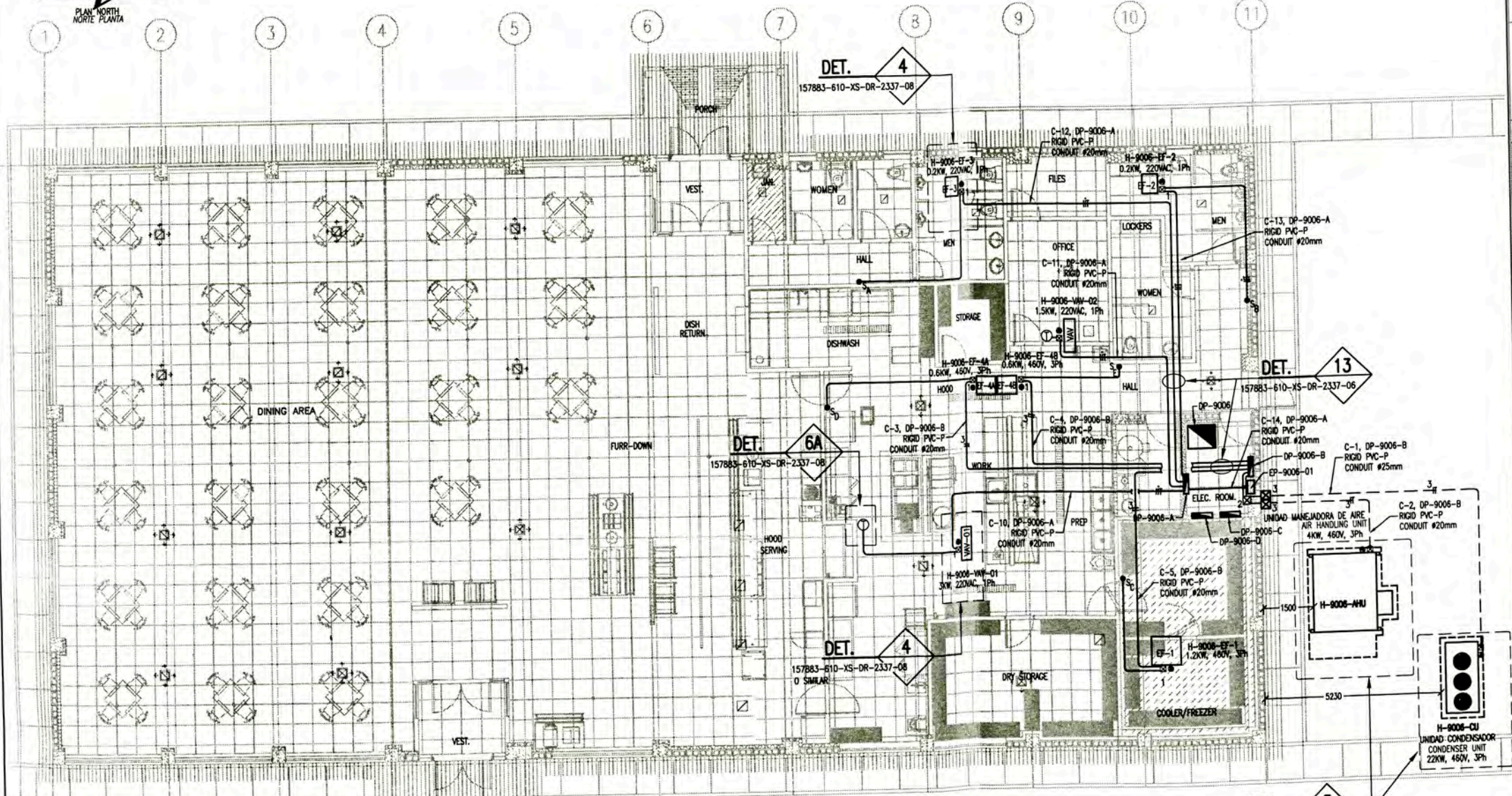
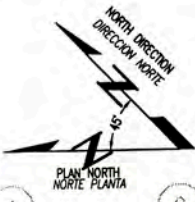
ESCALA: 1/75
 FECHA: 28/04/09

PERMANENT COMMUNITY BUILDINGS
 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
 COMMUNITY RECREATION CENTRE A-9005

DESIGNER: WPA
 CHECKER: COU
 DATE: 28/04/09

REVISOR: FTA
 APPROVED BY: JMG
 PROJECT No: 1618
 REVISOR: 0

157883-610-XS-DR-1431-07

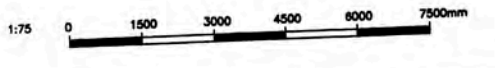


**POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
DINING/MESS A-9006
SCALE : 1/75**

LEYENDA / LEGEND			
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION	CAJAS (mm) / BOX (mm)	ALTURA / HEIGHT (m)
1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO
2	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45
3	CAJA DE DISTRIBUCION IP66, 170x110x100mm, ADOSADO A PARED PARA USO EXTERIOR. INCLUIE INTERRUPTOR TERMICO DISTRIBUTION BOX IP66, 170x110x100mm, ATTACHED AT WALL, OUTDOOR USE, INCLUDED CIRCUIT BREAKER	RECTANGULAR	---
+	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— — —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
□	EQUIPO DE AIRE ACONDICIONADO - UNIDAD CONDENSADORA AIR CONDITIONING CONDENSER UNIT	---	---
EF	EXTRACTOR DE AIRE EXHAUST FAN	---	TECHO
□	SISTEMA DE VOLUMEN VARIABLE VARIABLE AIR VOLUMEN	---	TECHO
AHU	UNIDAD MANEJADORA DE AIRE AIR HANDLING UNIT	---	---
■	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	---	1.80 NIVEL SUP.
□	TABLERO ELECTRICO DE CONTROL HVAC EMPOTRADO EN DRYWALL HVAC ELECTRICAL CONTROL PANEL EMBEDDED IN DRYWALL	---	1.80 NIVEL SUP.
—	CONDUCTO DE PVC-P, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
—	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PISO. RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	---	---
T	TERMOSTATO THERMOSTAT	RECTANGULAR	1.30
• S _x	INTERRUPTOR UNIPOLAR SIMPLE 20A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-21 CON CUBIERTA. LEVINTON SINGLE POLE SWITCH 20A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-21 WITH COVER. LEVINTON	RECTANGULAR 100x55x40	1.30
• S _y	INTERRUPTOR UNIPOLAR SIMPLE 40A, 600VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO H1302. LEVINTON SINGLE POLE SWITCH 40A, 600VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL H1302. LEVINTON	RECTANGULAR 100x55x40	1.30

NOTAS / NOTES

- EL DIAMETRO DE LOS CONDUCTOS SE MUESTRA EN 157883-610-XS-SH-0002
THE CONDUITS SIZES IS SHOW IN ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001



157883-610-XS-DR-2337-08
 157883-610-XS-DR-2035-04
 157883-610-XS-DR-1481-02
 157883-610-XS-DR-1431-08

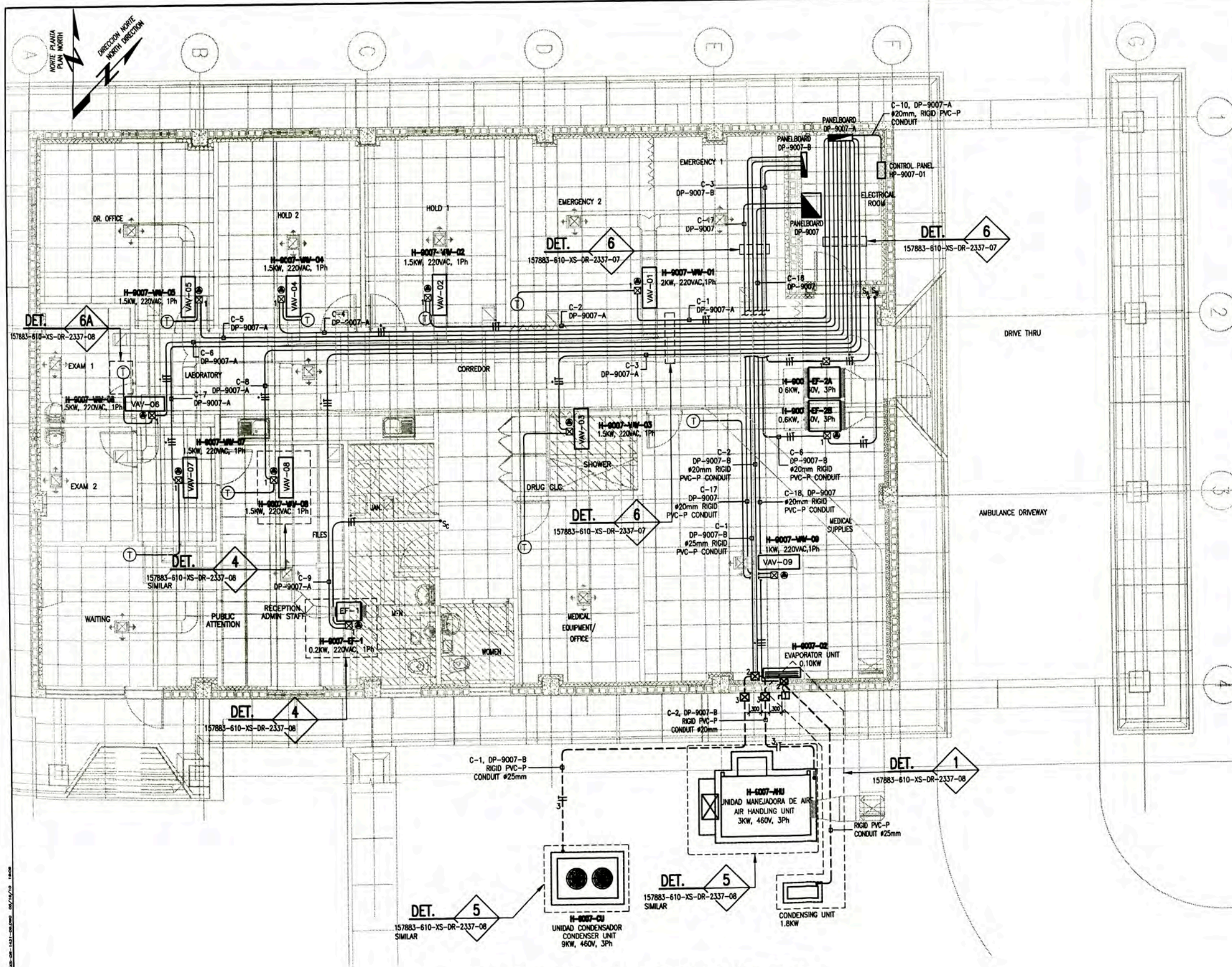
157883-610-XS-DR-2337-08	HWAC INSTALLATIONS DETAILS AND NOTES - PCB
157883-610-XS-DR-2337-08	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2
157883-610-XS-DR-2035-04	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9006-B, DP-9006, DP-9006-A AND DP-9006-B
157883-610-XS-DR-1481-02	HWAC GENERAL A-9006
157883-610-XS-DR-1431-08	REFERENCIAS DIBUJOS DETAILS OF INSTALLATION



UNIVERSIDAD NACIONAL DE INGENIERIA
 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)
 PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS
 ESPECIALIDAD : INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
 LOCALIDAD UBICACION : PAMPA MELCHORITA

DRAWING NO.: 157883-610-XS-DR-1431-08 DRAWING BY: WPA SCALE: 1/75 DATE: 28/04/09	DESIGNED BY: COU PROJECT NO.: 1618 REVISION: 0	CHECKED BY: FTA PROJECT NO.: 1618 REVISION: 0	APPROVED BY: JMG PROJECT NO.: 1618 REVISION: 0
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**PERMANENT COMMUNITY BUILDINGS
POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
DINING/MESS A-9006**

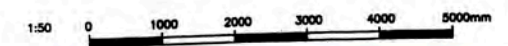


LEYENDA / LEGEND			
SIMBOLO SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS (mm) BOX (mm)	ALTURA/HEIGHT(m)
☒ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO
☒ 2	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45
☒ 3	CAJA DE DISTRIBUCION IP68, 170x140x100mm, ADOSADO A PARED PARA USO EXTERIOR, INCLUYE INTERRUPTOR TERMICO DISTRIBUTION BOX IP68, 170x140x100mm, ATTACHED AT WALL, OUTDOOR USE, INCLUDED CIRCUIT BREAKER	RECTANGULAR	0.45
— —	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
⊠	EQUIPO DE AIRE ACONDICIONADO - UNIDAD CONDENSADORA AIR CONDITIONING CONDENSER UNIT	---	---
EF	EXTRACTOR DE AIRE EXHAUST FAN	---	TECHO
⊠	SISTEMA DE VOLUMEN VARIABLE VARIABLE AIR VOLUMEN	---	TECHO
AHU	UNIDAD MANEJADORA DE AIRE AIR HANDLING UNIT	---	---
▬	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	---	1.80 NIVEL SUP.
▬	TABLERO ELECTRICO DE CONTROL HVAC EMPOTRADO EN DRYWALL HVAC ELECTRICAL CONTROL PANEL EMBEDDED IN DRYWALL	---	1.80 NIVEL SUP.
— —	CONDUCTO DE PVC-P, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF OR EMBEDDED WALL.	---	---
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO EN PISO. RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	---	---
T	TERMOSTATO THERMOSTAT	RECTANGULAR	1.30
Sx	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-2 CON CUBIERTA LEVINTON SINGLE POLE SWITCH, 16A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-2 WITH COVER. LEVINTON	RECTANGULAR	1.30
X=A, B, C	INTERRUPTOR UNIPOLAR DE 1x20A, 220VAC, 10KA, ADOSADO A PARED. INCLUYE INTERRUPTOR DE FALLA A TIERRA. CAJA IP65 BREAKER 1x20A, 220VAC, 10KA, ATTACHED TO WALL INCLUDE GFCL BOX IP65	CUADRADA 150x150x100	0.45

NOTAS/NOTES

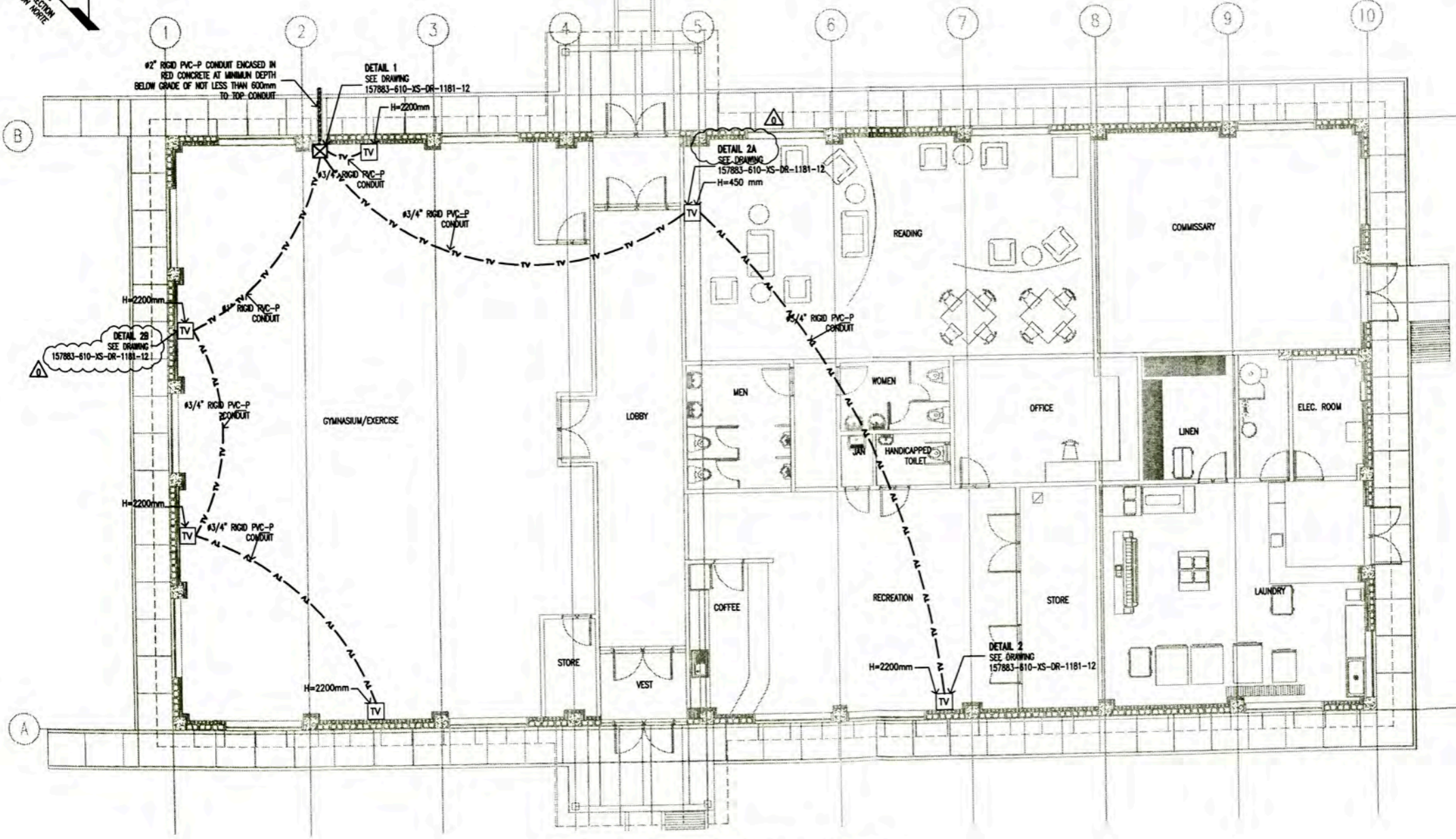
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001

POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
MEDICAL CLINIC A-9007
SCALE : 1/50

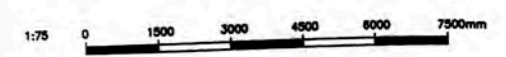


UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)				PERMANENT COMMUNITY BUILDINGS POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS MEDICAL CLINIC A-9007			
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS				DRAWING NO: 157883-610-XS-DR-1431-09			
PROJECT MANAGER: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA		DRAWING BY: WPA		DESIGNED BY: COU	
CHECKED BY:		DATE: 28/04/09		PROJECT NO: 1618		REVISION: 0	
0 ISSUED FOR CONSTRUCTION				157883-610-XS-DR-1431-09			

LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒	CAJA DE PASO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	CUADRADA SQUARE	0.45 0.45
TV	SALIDA PARA TV POR CABLE TV CABLE OUTLET	RECTANGULAR RECTANGULAR	AS REQUIRED AS REQUIRED
— TV —	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO DEBAJO DEL PISO. RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED UNDER FLOOR.	— —	— —

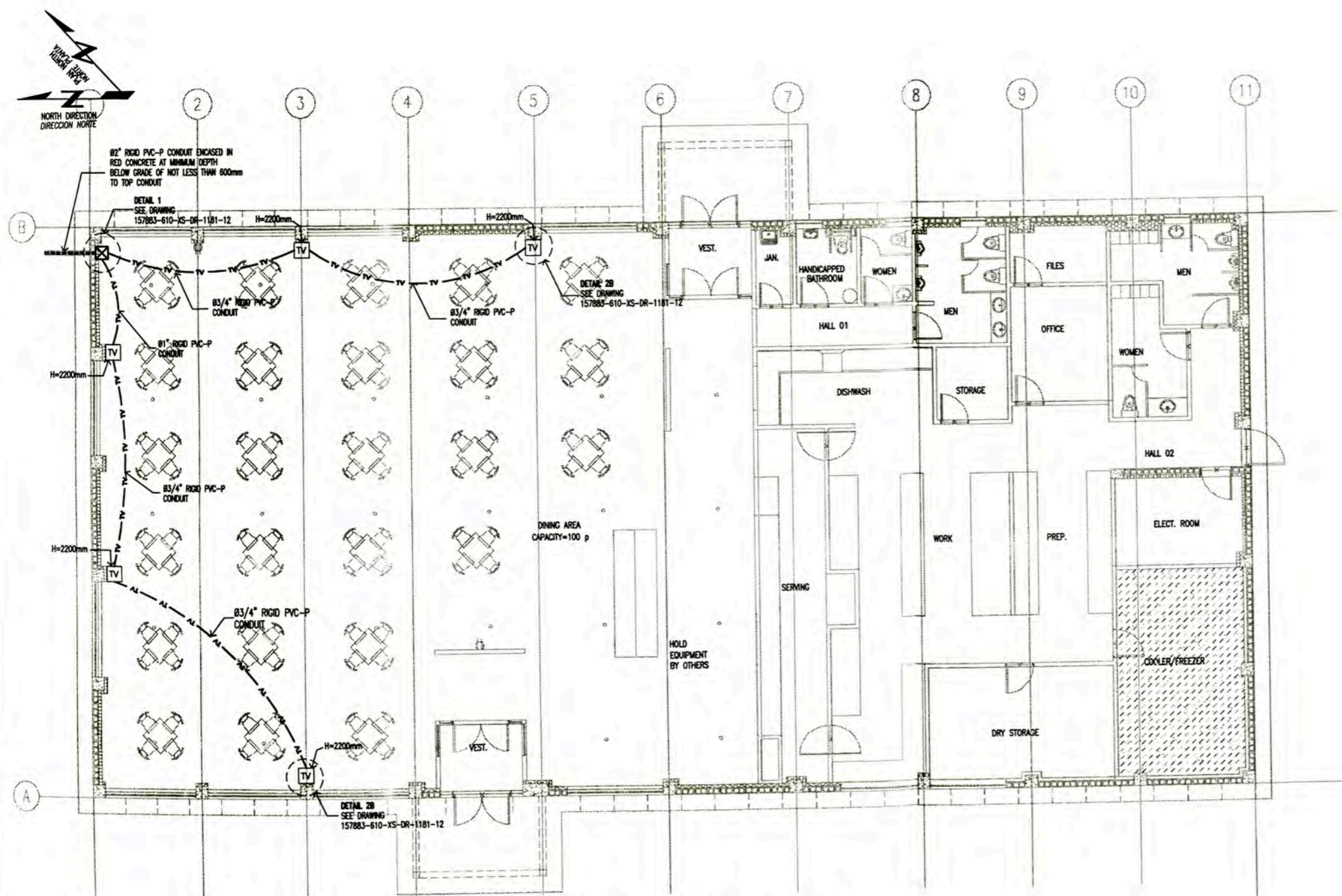


TV OUTLETS DISTRIBUTION LAYOUT
COMMUNITY RECREATION CENTER (A-9005)
 PLANT
 SCALE : 1/75



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS TV OUTLETS DISTRIBUTION LAYOUT COMMUNITY RECREATION CENTER (A-9005)	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	
PROJECT: PERU LNG EXPORT PROJECT SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DRAWING BY: WPA CHECKED BY: CDU DATE: 01/06/09	APPROVED BY: FTA PROJECT NO: 1618 REVISION: 0
PROJECT NO: 157883-610-XS-DR-1481-21		DRAWING NO: 157883-610-XS-DR-1481-21	

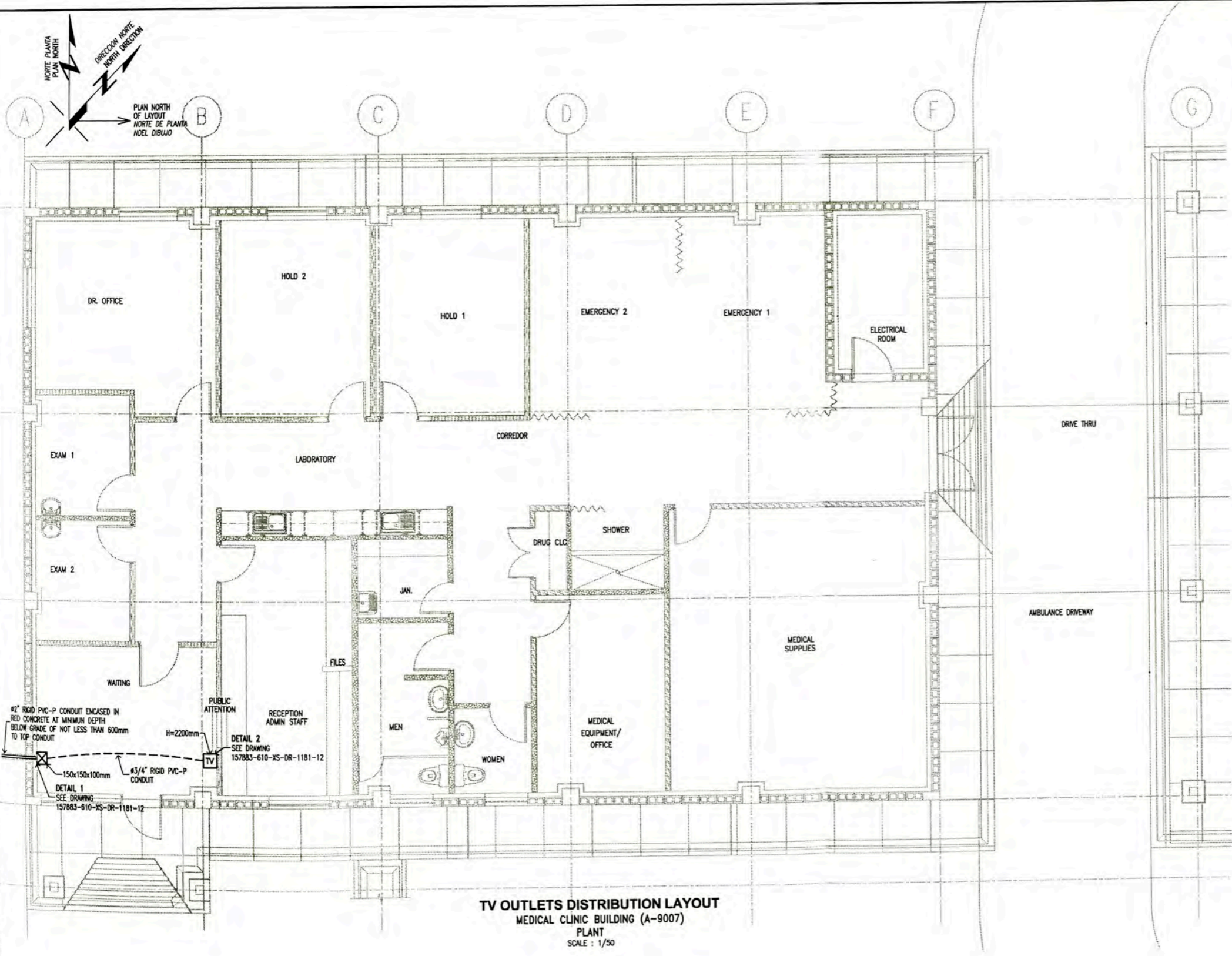
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒	CAJA DE PISO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	0.45
	PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	0.45
TV	SALIDA PARA TV POR CABLE	RECTANGULAR	AS REQUIRED
	TV CABLE OUTLET	RECTANGULAR	AS REQUIRED
TV	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO DEBAJO DEL PISO.	--	--
	RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED UNDER FLOOR.	--	--



TV OUTLETS DISTRIBUTION LAYOUT
DINING MESS HALL (A-9006)
 PLANT
 SCALE : 1/75

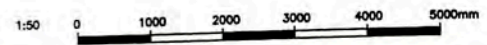


0 ISSUED FOR CONSTRUCTION 01 ISSUED FOR COMMENTS		15/06/09 LRR MEJ 18/06/09 LRR MEJ	157883-610-XS-DR-1181-12 157883-610-XS-DR-1431-08 157883-610-XS-DR-1431-05	PCB - TV CABLE INSTALLATIONS DETAILS AND NOTES POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS DINING MESS HALL A-9006 POWER AND RECEPTACLE OUTLETS LAYOUT DINING MESS HALL A-9006		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)	PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING NO: WPA DESIGNED BY: COU CHECKED BY: FTA APPROVED BY: JMG REVISION: 0	PERMANENT COMMUNITY BUILDINGS TV OUTLETS DISTRIBUTION LAYOUT COMMUNITY RECREATION CENTER (A-9005)	DRAWING NO: 157883-610-XS-DR-1481-22 SCALE: 1/75 DATE: 01/06/09 PROJECT NO: 1818
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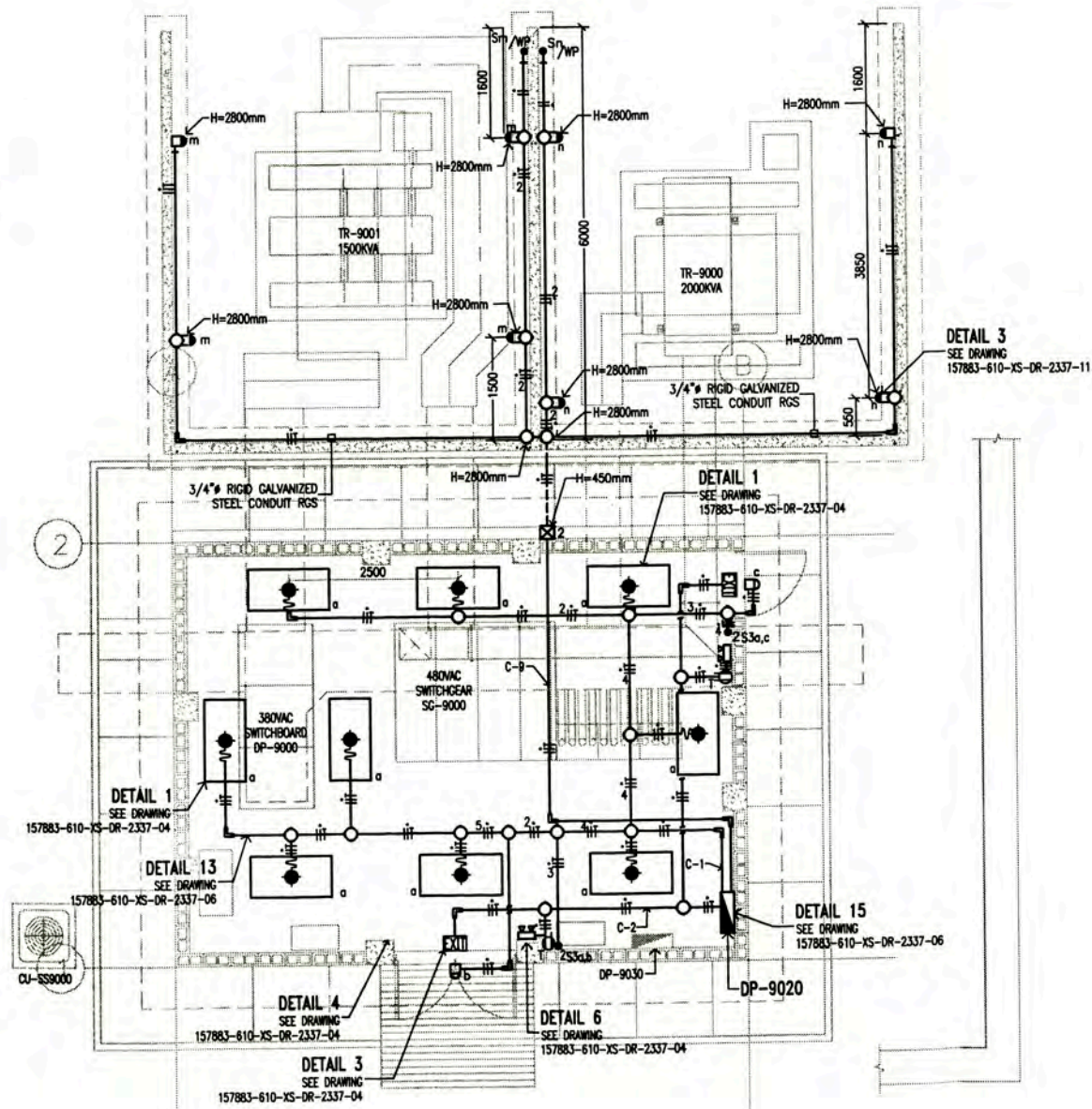
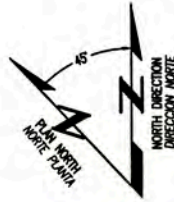
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒	CAJA DE PISO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	0.45
	PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	0.45
TV	SALIDA PARA TV POR CABLE	RECTANGULAR	0.45
	OUTLET FOR TV CABLE	RECTANGULAR	0.45
---	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO DEBAJO DEL PISO.	--	--
---	RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED UNDER FLOOR.	--	--

TV OUTLETS DISTRIBUTION LAYOUT
MEDICAL CLINIC BUILDING (A-9007)
 PLANT
 SCALE : 1/50

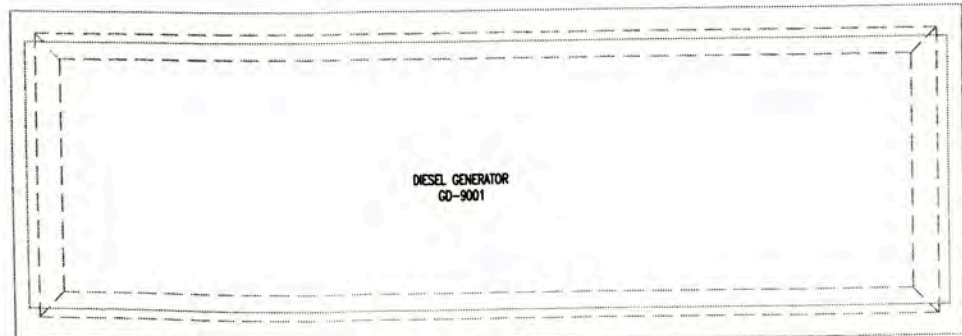


NO.	ISSUED FOR CONSTRUCTION	DATE	BY	APPROVED BY	REVISION
0	ISSUED FOR CONSTRUCTION	15/07/09	WPA	MEJ	

	UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS TV OUTLETS DISTRIBUTION LAYOUT MEDICAL CLINIC BUILDING (A-9007)	
	PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING BY: WPA SCALE: 1/50	DESIGNED BY: COU DATE: 01/06/09	REVISOR: FTA PROJECT No: 1618
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DRAWING No: 157883-610-XS-DR-1481-23		



FOR TRANSFORMER ILLUMINATION
SEE DRAWING
157883-610-XS-DR-2330-04

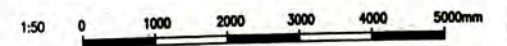


LIGHTING DISTRIBUTION LAYOUT
SUBSTATION SS-9000
SCALE : 1/50

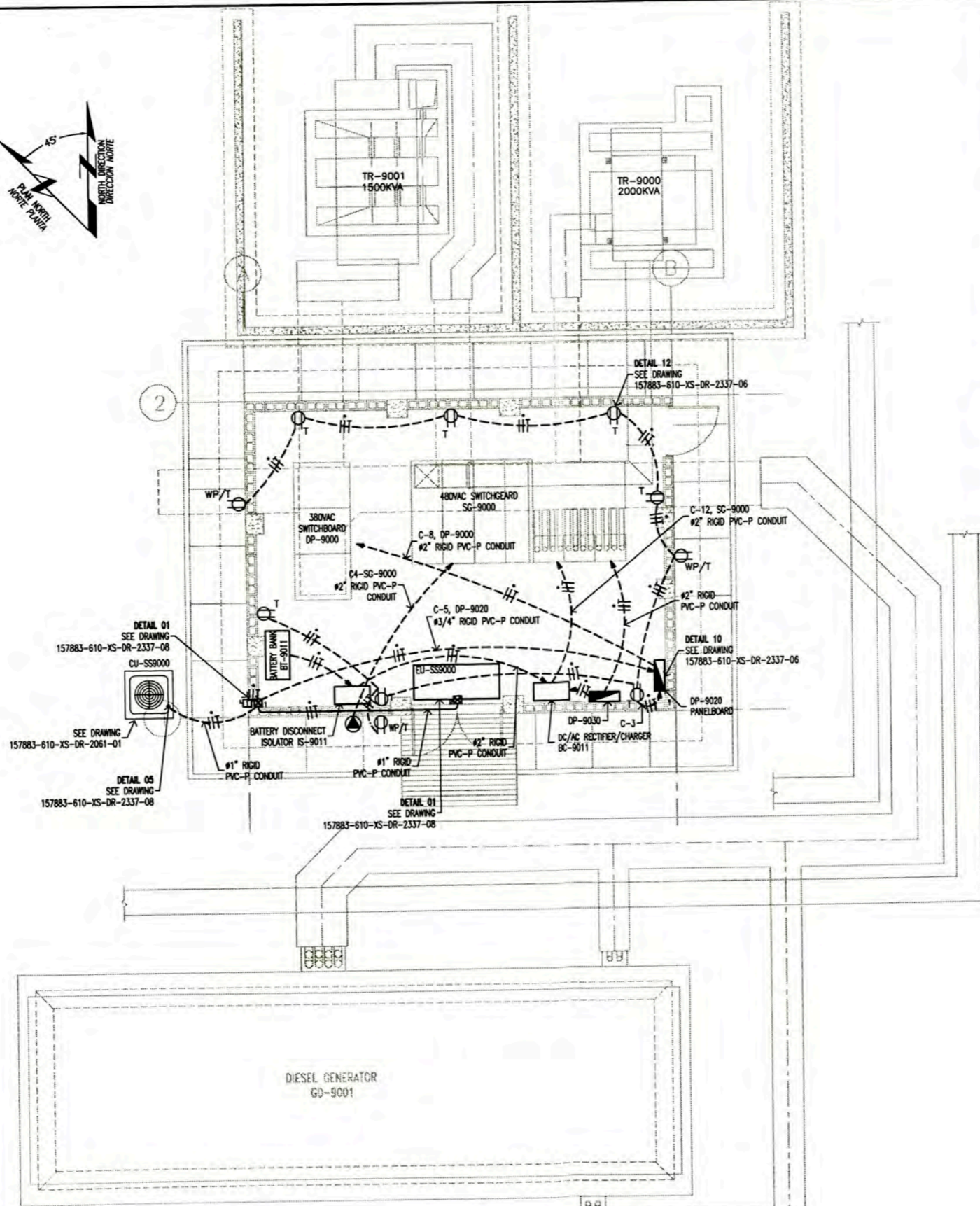
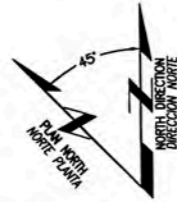
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA(m)/ HEIGHT(m)
	ARTEFACTO RES-A/2x4'/4TL0 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 04 LAMPARAS FLUORESCENTES, RECTAS TLD 36 W, EQUIPADO CON BALASTO ELECTRONICO, 220VAC, BATERIA CON AUTONOMIA DE 90 MINUTOS	--	3.60m
	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x4' / 4TL0 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 04 FLUORESCENT LAMPS, RECTUM TLD 36 W, EQUIPPED WITH ELECTRONIC BALLASTS, 220VAC, AUTONOMY 1 HOUR MAINTENANCE-FREE	--	3.60m
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 150W, 220VAC, 1Φ, CON ALTO F.D.P. MODELO RSP DE JOSFEL.	--	2.80m
	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 150W, 220VAC, 1Φ, WITH HIGH-FDP MODEL OF RSP JOSFEL.	--	2.80m
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1Φ, CON ALTO F.D.P. MODELO RSP DE JOSFEL.	--	3.20m
	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1Φ, WITH HIGH-FDP MODEL OF RSP JOSFEL.	--	3.20m
	TABLERO ELECTRICO EMPOTRADO	--	1.80 BORDE SUPERIOR
	PANELBOARD EMBEDDED.	--	1.80 TOP
	LUMINARIA DE EMERGENCIA LE-AP/AT/ZTC-D 28W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 28W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA, LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	2.20m
	EMERGENCY LIGHTING FIXTURE LE-AP/AT/ZTC-D 28W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 28W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTOGONAL 100X40	2.20m
	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	2.20m
	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
	CONDUCTOR DE FASE / PHASE CONDUCTOR	--	--
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	--	--
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	--	--
	LUMINARIA DE SEÑALIZACION; CON 01 LAMPARA FLUORESCENTE DE 28W, 220VAC, 1Φ, CON ALTO F.D.P. MODELO LE-AP/AT DE JOSFEL.	--	2.20m
	EXIT SIGN LIGHTING FIXTURE 28W, 220VAC, 1Φ, WITH HIGH FDP LE-AP/AT MODEL JOSFEL.	--	2.20m
	CONDUCTO FLEXIBLE DE ACERO GALVANIZADO #3/4"	--	--
	FLEXIBLE CONDUIT GALVANIZED STEEL #3/4"	--	--
	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN MURO	--	--
	RIGID PVC-P CONDUIT, EMBEDDED WALL	--	--
	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	--	--
	RIGID PVC-P CONDUIT, EMBEDDED UNDER FLOOR.	--	--
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ, A PRUEBA DE AGUA, MODELO 1432 DE LEVITON	RECTANGULAR 100x55x40	1.30m
	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ, WATER PROOF, MODEL 1432 LEVITON	RECTANGULAR 100x55x40	1.30m
	01 INTERRUPTOR COMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ, A B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30m
	01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ, A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30m
	CAJA DE PASO CUADRADA PVC 100x100x50mm EMPOTRADA A PARED.	CUADRADA	COMO REQUIERA EL DIBUJO
	PVC JUNCTION BOX TYPE HEAVY 100x100x50mm.	SQUARE	AS REQUIRED TO DRAWING
	RIGID GALVANIZED STEEL CONDUIT.	--	--
	CONDUIT TYPE "1B" RIGID GALVANIZED STEEL.	--	--
	JUNCTION BOX RIGID GALVANIZED STEEL.	--	--

NOTAS/NOTES:

- LOS CIRCUITOS DE ALUMBRADO Y TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASES), 4mm² (NEUTRO) Y 4mm² (TIERRA). AISLAMIENTO THW LIGHTING CIRCUITS AND RECEPTACLES OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND), INSULATION THW.
- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010 CALCULATION TO DETERMINE LIGHTING FIXTURE NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
- LOS EQUIPOS DE ILUMINACION SERA DE ACUERDO A LA HOJA TECNICA 157883-610-XS-OS-0028 THE LIGHTING EQUIPMENT, ACCORDING APROVED TO DATA SHEET 157883-610-XS-OS-0028
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001 THE LOAD ELECTRICAL SCHEDULE IS SHOW IN 157883-610-XS-SH-0001



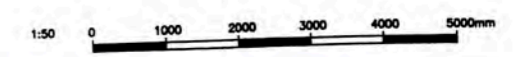
PERMANENT COMMUNITY BUILDINGS LIGHTING DISTRIBUTION LAYOUT SUBSTATION SS-9000				DRAWING NO: 157883-610-XS-DR-2031-01	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS				DRAWING BY: WPA CHECKED BY: COU DESIGNED BY: FTA APPROVED BY: JMG	
PROJECT SPECIALIST: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)				PROJECT NO: 1618 REVISION: 0	
LOCATION: PAMPA MELCHORITA				SCALE: 1/50 DATE: 01/07/08	
REVISIONS:					
NO	ISSUED FOR CONSTRUCTION	DATE	BY	APPROVED BY	REVISIONS
0					



POWER AND RECEPTACLE OUTLETS LAYOUT
SUBSTATION SS-9000
 SCALE : 1/50

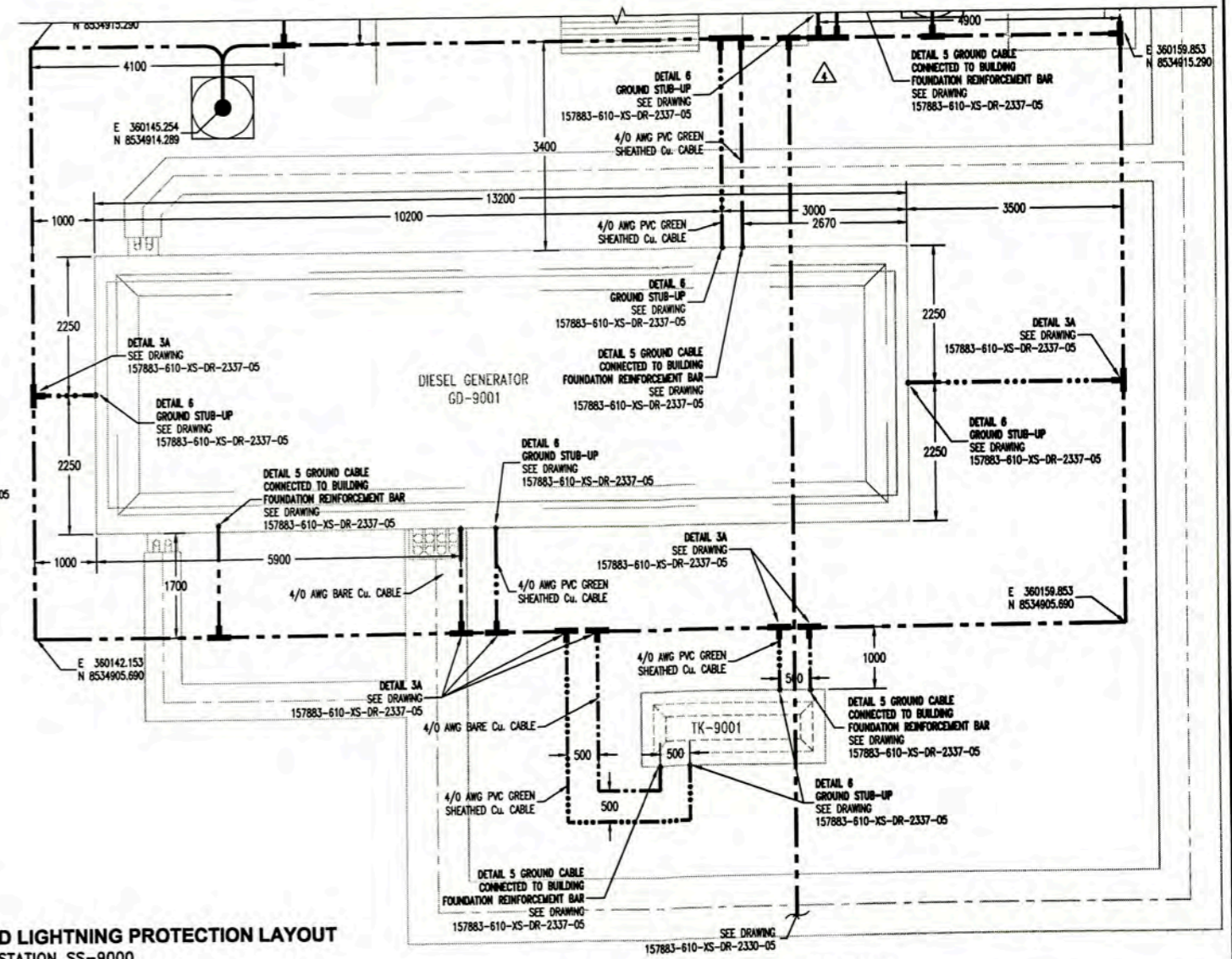
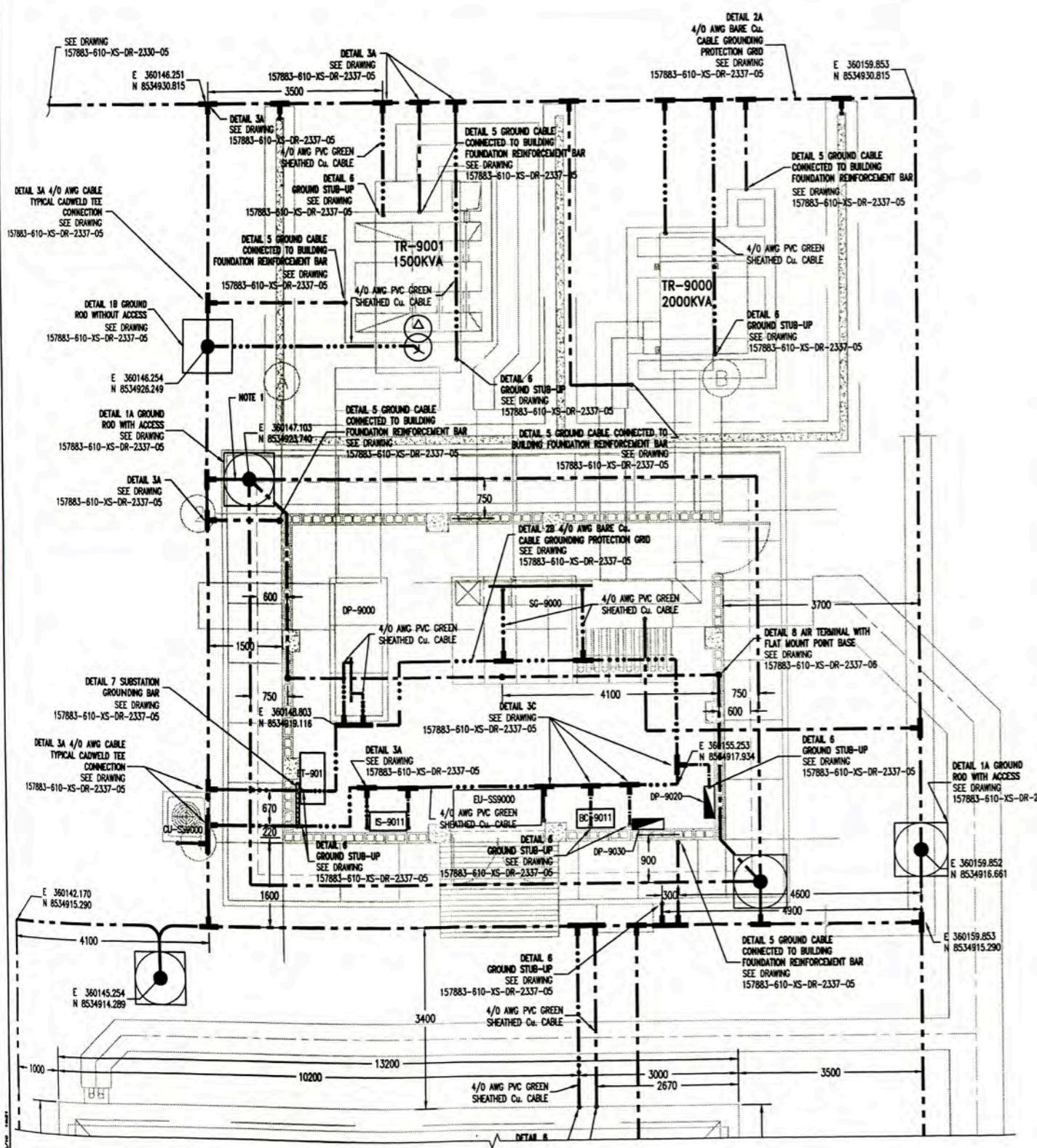
LEYENDA / LEGEND			
SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/BOX(mm)	ALTURA(m) HEIGHT(m)
☐	TABLERO ELECTRICO EMPOTRADO PANELBOARD EMBEDDED.	--	1.80 BORDE SUPERIOR 1.80 TOP
⊕	TOMACORRIENTE DUPLEX, CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
⊕ WP/T	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 20A, EMPOTRADO EN PARED, A PRUEBA DE AGUA. DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 20A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
—	CONDUCTOR DE FASE / PHASE CONDUCTOR	--	--
—	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	--	--
—	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	--	--
()	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN TECHO. RIGID PVC-P CONDUIT, EMBEDDED IN ROOF.	--	--
- - -	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, EMBEDDED IN WALL.	--	--
- - -	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO. RIGID PVC-P CONDUIT, EMBEDDED BELOW FLOOR.	--	--
⊕	INTERRUPTOR UNIPOLAR DE 1x20A, 220VAC, 10KA, IP65, EMPOTRADO A PARED, INCLUYE INTERRUPTOR DIFERENCIAL BREAKER 1x20A, 220VAC, 10KA, IP65, EMBEDDED WALL, INCLUDE GFCI	--	0.45m
⊕ _R	CAJA RECTANGULAR METALICO, 100x55x50mm EMPOTRADO A PARED BOX RECTANGLE METAL, 100x55x50mm, EMBEDDED IN WALL	RECTANGULAR	0.45m
⊕ _I	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO EN PARED O TECHO, MODELO CABOX DE SCAME PULL BOX PVC 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL BRAND SCAME	RECTANGULAR	0.45m
⊕	SALIDA DE FUERZA 3ø, 3P + T, 100A, 480VAC 60Hz. GRADO DE PROTECCION IP67, MARCA LEVINTON, MODELO 4100R7W. INCLUYE CAJA Y TAPA (IEC-60309-1, IEC-60309-2, IEC-60529)	--	0.45m
⊕	RECEPTACLE 3ø, 3P + G, 100A, 480VAC 60Hz. PROTECTION IP67 BRAND LEVINTON, MODEL 4100R7W INCLUDES BOX AND COVER (IEC-60309-1, IEC-60309-2, IEC-60529)	--	0.45m

- NOTAS/NOTES**
- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² THW (FASE), 4mm² THW (NEUTRO) Y 4mm² THW (TIERRA)
THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² THW (PHASE), 4mm² THW (NEUTRAL) AND 4mm² THW (GROUND)
 - EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA 157883-610-XS-CC-0010
CALCULATION TO DETERMINE RECEPTACLE OUTLET NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LOS TOMACORRIENTES ESTARAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028
RECEPTACLE OUTLETS IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157880-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT SIZE IS SHOW IN 157883-610-XS-SH-0002.
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - CONDUIT FOR ABOVE GROUND SHALL BE FOR ELECTRICAL SUBSTATION RIGID GALVANIZED STEEL CONDUIT ACCORDING TO ELECTRICAL DESIGN BASIC, SECTION 6.2.2



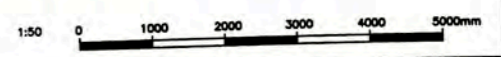
157883-610-XS-DR-2033-08 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9000, DP-9000-A AND DP-9020			SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		DRAWING PLAN :
157883-610-XS-DR-2337-06 PCB ELECTRICAL INSTALLATIONS DETAILS AND NOTES - SHEET 2 OF 2			PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DRAWING BY: WPA
157883-610-XS-DR-2033-02 SECTIONS AND ELEVATIONS SUBSTATION SS-9000		PROJECT SPECIALIST / INGENIERA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA		DESIGNED BY: COU
157883-610-XS-DR-2033-01 SUBSTATION SS-9000 ELECTRICAL EQUIPMENT LAYOUT			SCALE: 1/50		DATE: 01/07/08
157883-610-XS-DR-2033-01 LIGHTING DISTRIBUTION LAYOUT SUBSTATION SS-9000		PROJECT NO: 1618		APPROVED BY: JMG	DRAWING NO: 157883-610-XS-DR-2031-02

LEYENDA / LEGEND	
SIMBOLO SYMBOL	DESCRIPCION DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO (TW/VERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED CU CABLE
	CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE CU CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	CABLE DESNUDO 2 AWG 2 AWG BARE CONDUCTOR ON THE ROOF AND DOWN CONDUCTOR
	CONDUCTOR AISLADO (TW/VERDE), 4/0 AWG 4/0 AWG PVC GREEN SHEATHED CU CABLE
	AIR TERMINAL DET. 9 - 157883-610-XS-DR-2637-06
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL
	POZO A TIERRA SIN REGISTRO GROUND ROD WITHOUT ACCESS



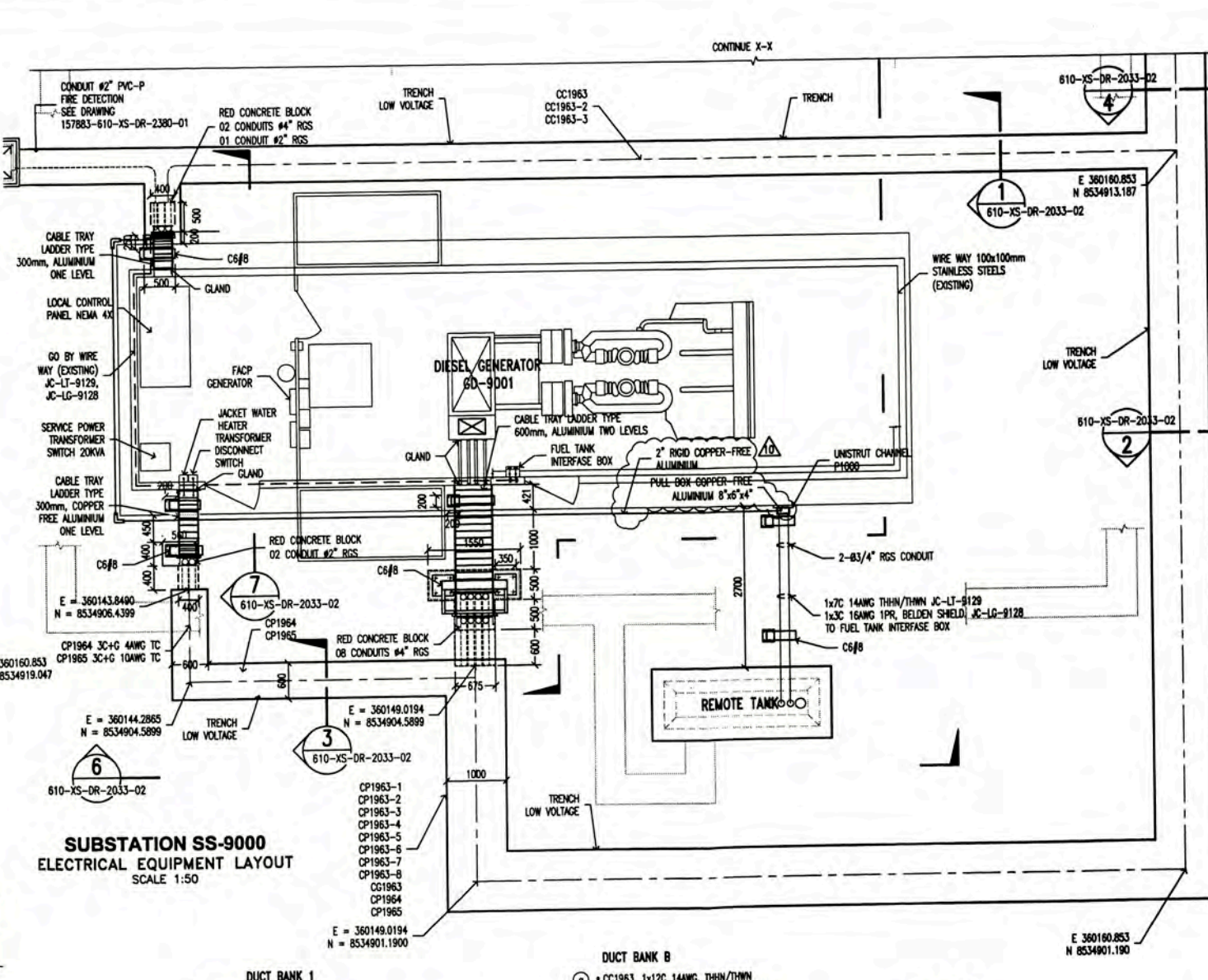
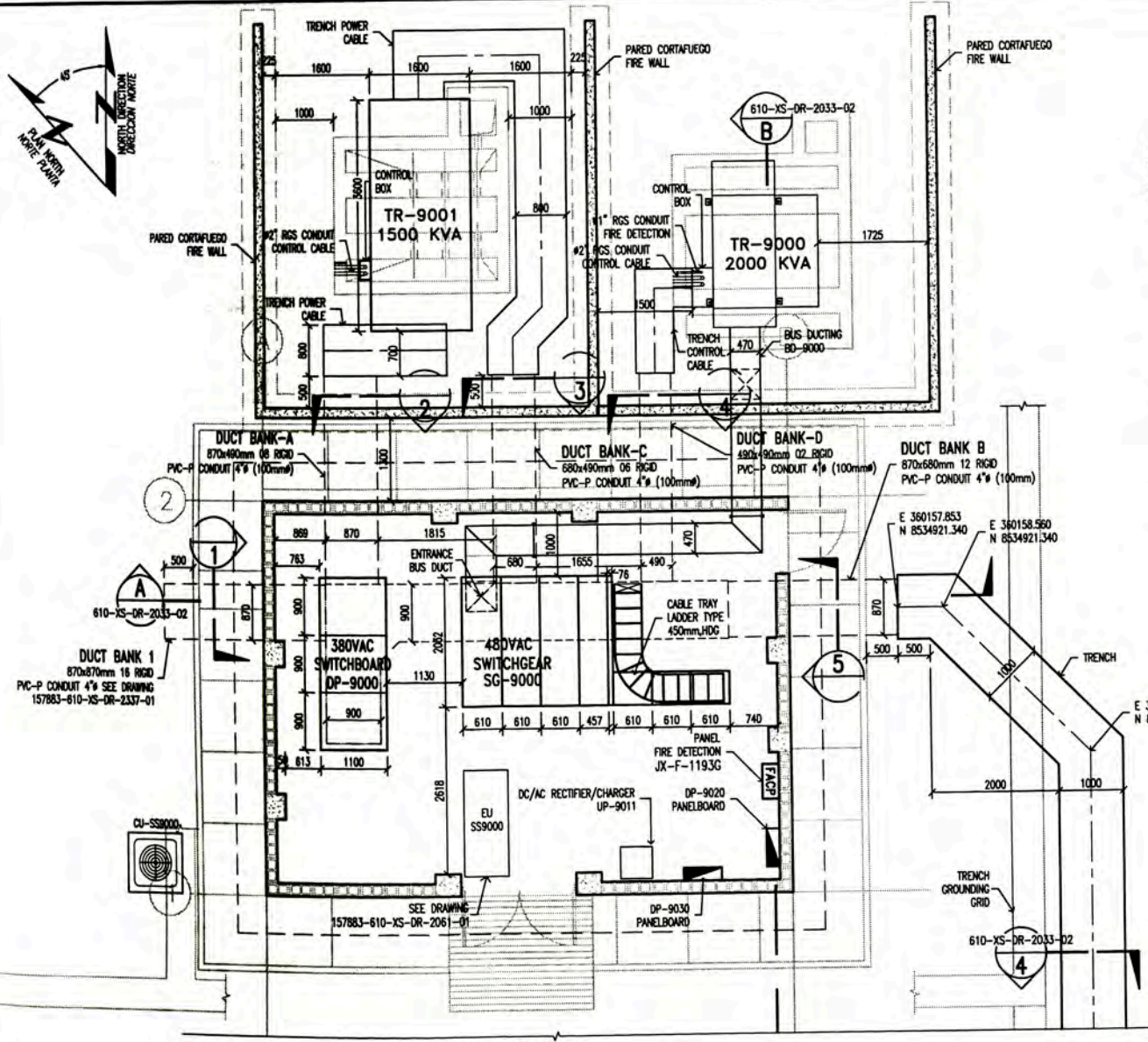
GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT
SUBSTATION SS-9000
SCALE 1:50

- GENERAL NOTES**
- BONDING BETWEEN THE LIGHTNING SYSTEM GROUND TERMINALS AND THE ELECTRICAL GROUNDING SYSTEM, IN ACCORDANCE WITH 250.106 (NEC)
 - THE CONNECTION TO GROUND LOOP IS SHOW IN DRAWING 157883-610-XS-DR-2330-05

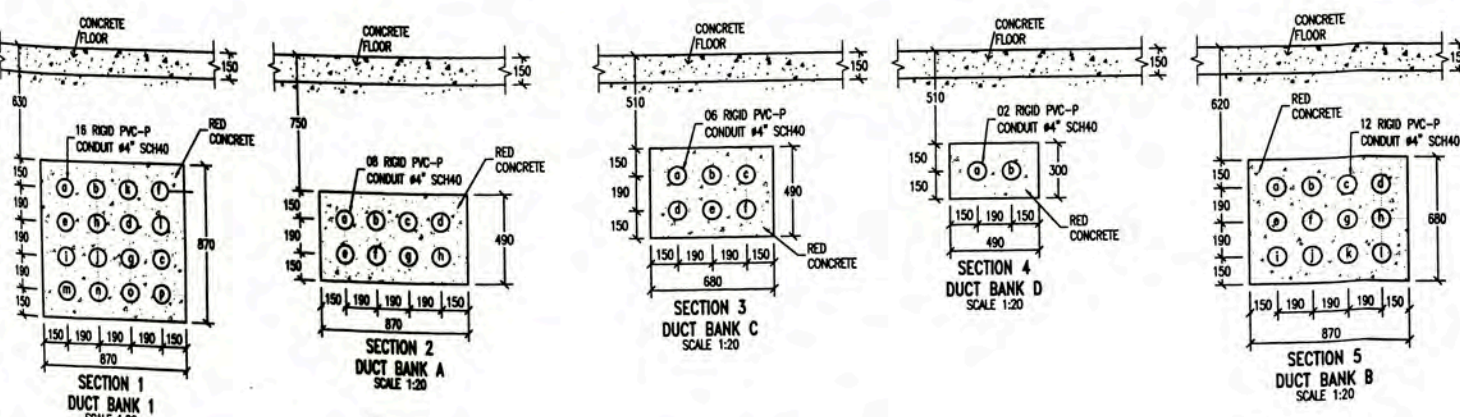


NO.	ISSUED FOR CONSTRUCTION	DESCRIPTION	DATE	BY	CHKD.	APPROVED	SCALE
1		157883-610-XS-DR-2330-05					
2		157883-610-XS-DR-2337-05					
3		157883-610-XS-DR-2033-02					
4		157883-610-XS-DR-2031-02					
5		157883-610-XS-DR-2031-01					

 SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT SUBSTATION SS-9000			
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LICENCIADO: PAMPA MELCHORITA	DRAWING BY: WPA CHECKED BY: COU DATE: 01/07/08 SCALE: 1/50	DESIGNED BY: FTA PROJECT NO: 1618	APPROVED BY: JMG REVISION: 0	DRAWING NO: 157883-610-XS-DR-2031-03	DRAWING PLAN:



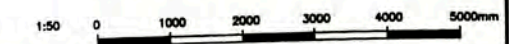
**SUBSTATION SS-9000
ELECTRICAL EQUIPMENT LAYOUT
SCALE 1:50**



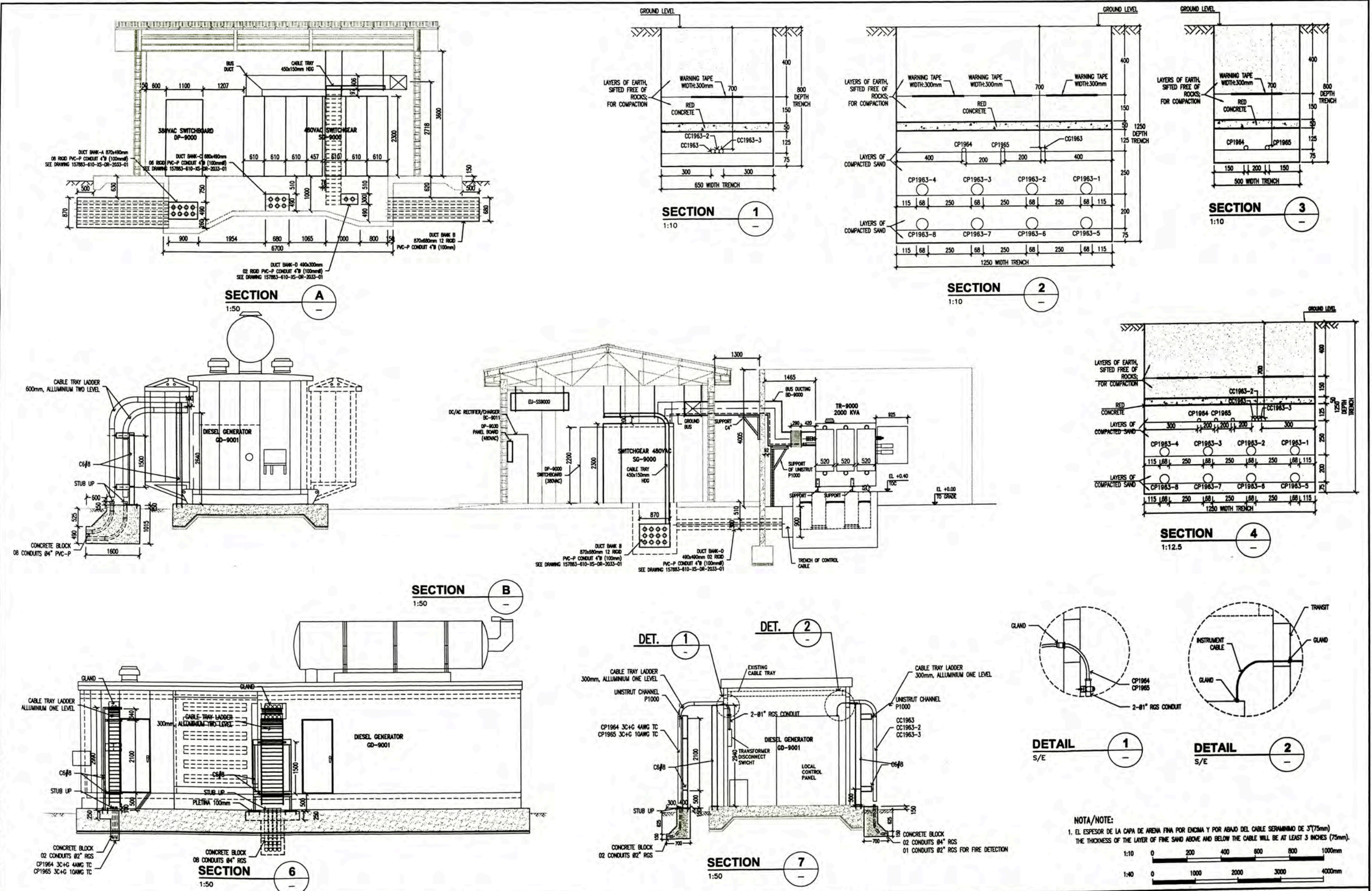
**SECTION DUCT BANK
SCALE 1:20**

- DUCT BANK A**
 - ⓐ • SPARE
 - ⓑ • SPARE
 - ⓒ CP9000SG-05, 3-1x150mm²(P), NYY + 1x95mm²(G), TW.
 - ⓓ CP9000DP-02A, 3-1x240mm²(P), NYY+1x240mm²(N), NYY.
 - ⓔ CP9000DP-03, 3-1x150mm²(P), NYY+1x150mm²(N), NYY+1x95mm²(G), TW.
 - ⓕ CP9000DP-10, 3-1x10mm²(P), NYY+1x10mm²(N), NYY+1x5mm²(G), TW.
 - ⓖ CP9000DP-11, 3-1x35mm²(P), NYY+1x35mm²(N), NYY+1x10mm²(G), TW.
 - ⓗ CP1851, 1x3C 2AWG, THHN/THWN.
 - ⓓ CP9000SG-03, 3-1x150mm²(P), NYY+1x95mm²(N), TW.
 - ⓑ CP9000DP-06, 3-1x185mm²(P), NYY+1x185mm²(N), NYY+1x95mm²(G), TW.
 - ⓓ CP9000DP-07, 3-1x240mm²(P), NYY+1x240mm²(N), NYY+1x95mm²(G), TW.
 - ⓔ CP9000DP-01, 3-1x240mm²(P), NYY+1x240mm²(N), NYY+1x95mm²(G), TW.
 - ⓕ CP9000DP-02B, 3-1x240mm²(P), NYY+1x240mm²(N), NYY+1x95mm²(G), TW.
 - ⓖ CP9000DP-02C, 3-1x240mm²(P), NYY+1x240mm²(N), NYY.
 - ⓗ CP9000DP-05A, 3-1x240mm²(P), NYY+1x240mm²(N), NYY.
 - ⓓ CP9000DP-05B, 3-1x240mm²(P), NYY+1x240mm²(N), NYY+1x95mm²(G), TW.
 - ⓔ CP9000DP-4A, 3-1x185mm²(P), NYY+1x185mm²(N), NYY.
 - ⓕ CP9000DP-4B, 3-1x185mm²(P), NYY+1x185mm²(N), NYY+1x95mm²(G), TW.
- DUCT BANK B**
 - ⓐ • CC1963, 1x12C 14AWG, THHN/THWN
 - ⓑ • CC1963-2, 1x12C 14AWG, THHN/THWN
 - ⓒ • CC1963-3, 1x12C 14AWG, THHN/THWN
 - ⓓ • CC1963, 1C 14AWG, THHN/THWN
 - ⓔ • CP1964, 1x3C 4AWG, THHN/THWN
 - ⓕ • CP1965, 1x3C 10AWG, THHN/THWN
 - ⓖ • SPARE
 - ⓗ • SPARE
 - ⓓ • CP1963-1, 1x3C 500KDC, THHN/THWN.
 - ⓔ • CP1963-2, 1x3C 500KDC, THHN/THWN.
 - ⓕ • CP1963-3, 1x3C 500KDC, THHN/THWN.
 - ⓖ • CP1963-4, 1x3C 500KDC, THHN/THWN.
 - ⓗ • CP1963-5, 1x3C 500KDC, THHN/THWN.
 - ⓓ • CP1963-6, 1x3C 500KDC, THHN/THWN.
 - ⓔ • CP1963-7, 1x3C 500KDC, THHN/THWN.
 - ⓕ • CP1963-8, 1x3C 500KDC, THHN/THWN.
- DUCT BANK C**
 - ⓐ • CP9000SG-105 (3-1x240mm²(P), NYY)
 - ⓑ • CP9000SG-104 (3-1x240mm²(P), NYY+1x4/DWG(G), TW)
 - ⓒ • SPARE
 - ⓓ • CP9000SG-103 (3-1x240mm²(P), NYY+1x95mm²(G), TW)
 - ⓕ • CP9000SG-102 (3-1x240mm²(P), NYY)
 - ⓖ • CP9000SG-101 (3-1x240mm²(P), NYY)
- DUCT BANK D**
 - ⓐ • CG1016, 1AWG, TW.
 - ⓑ • CL9000TR-01A 1x3x4mm², MC.
 - ⓒ • CC1016, 1x19C 14AWG, MC
 - ⓓ • CC9000TR-01A, 1x12C 14AWG, MC.
 - ⓔ • CC9000TR-02A, 1x12C 14AWG, MC.
 - ⓕ • CC9000TR-03A, 1x3C 10AWG, MC.
 - ⓖ • WC-FD-190002, 12 CORE F.O. SPUR

NOTA/NOTE
 1. SE INSTALARN CAMPANAS DE PVC EN TODOS LOS DUCTOS.
 PVC BELLS WILL BE INSTALLED FOR ALL DUCT BANKS.
 2. DUCT SHALL BE Laid ON A SLIGHT GRADIENT 0.1% TO FACILITATE DRAINAGE



157883-610-XS-DR-2330-03 LOW VOLTAGE POWER LAYOUT			SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS SUBSTATION SS-9000 ELECTRICAL EQUIPMENT LAYOUT	
157883-610-XS-DR-2031-03 SUBSTATION SS-9000 GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT			PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DRAWING BY: WPA DESIGNED BY: COU REVISION BY: FTA APPROVED BY: JMG DATE: 01/07/08 PROJECT NO: 1618 REVISION: 0	
157883-610-XS-DR-2033-02 SECTIONS FOR ELECTRICAL SUBSTATION 9000 EQUIPMENTS		157883-610-XS-DR-2031-03 AIR CONDITIONING SUBSTATION SS-9000		157883-610-XS-DR-2031-02 POWER DISTRIBUTION SUBSTATION SS-9000		157883-610-XS-DR-2033-01 LIGHTING DISTRIBUTION SUBSTATION SS-9000
157883-610-XS-DR-2031-03 POWER DISTRIBUTION SUBSTATION SS-9000		157883-610-XS-DR-2031-02 LIGHTING DISTRIBUTION SUBSTATION SS-9000		DRAWING NO: 157883-610-XS-DR-2033-01		



SECTION A
1:50

SECTION B
1:50

SECTION 1
1:10

SECTION 2
1:10

SECTION 3
1:10

SECTION 4
1:12.5

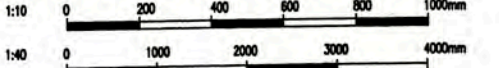
SECTION 6
1:50

SECTION 7
1:50

DETAIL 1
S/E

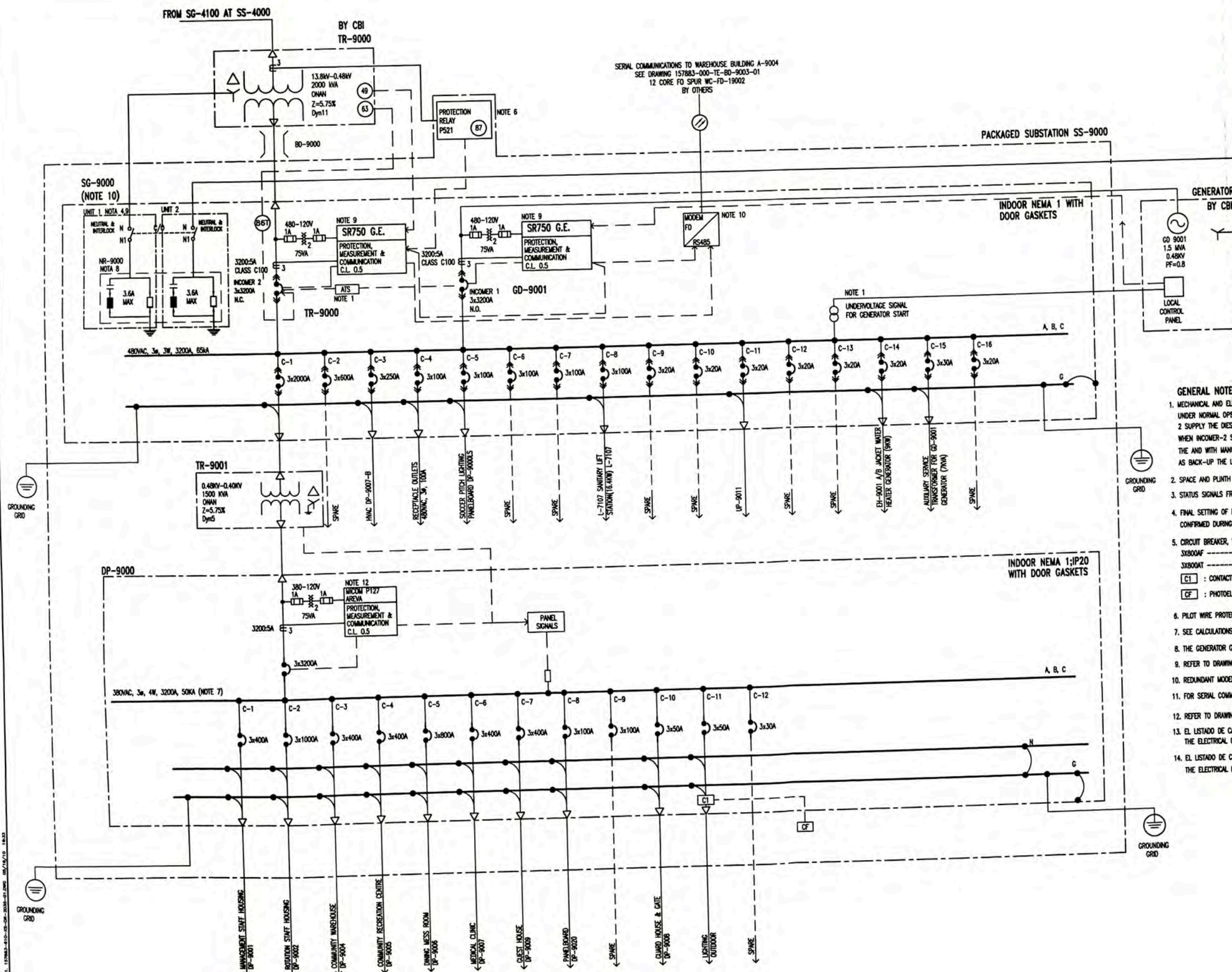
DETAIL 2
S/E

NOTA/NOTE:
1. EL ESPESOR DE LA CAPA DE ARENA FINA POR ENCIMA Y POR ABAJO DEL CABLE SERAN DE 3"(75mm)
THE THICKNESS OF THE LAYER OF FINE SAND ABOVE AND BELOW THE CABLE WILL BE AT LEAST 3 INCHES (75mm).



<p>157883-610-XS-DR-2033-01 157883-610-XS-DR-2031-03 157883-610-XS-DR-2031-02 157883-610-XS-DR-2031-01</p>				<p>SUBSTATION SS-9000 ELECTRICAL EQUIPMENT LAYOUT GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT SUBSTATION SS-9000 POWER AND RECEPTACLE OUTLETS LAYOUT SUBSTATION SS-9000 LIGHTING DISTRIBUTION LAYOUT SUBSTATION SS-9000</p>				<p>SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)</p>				<p>PERMANENT COMMUNITY BUILDINGS SECTIONS FOR ELECTRICAL SUB STATION 9000 EQUIPMENTS</p>			
<p>ISSUED FOR CONSTRUCTION</p>				<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>DESIGNED BY: WPA CHECKED BY: COU REVISADO BY: FTA APPROVED BY: JMG</p>				<p>DATE: 01/07/08 PROJECT No: 1618 REVISOR: 0</p>			
<p>157883-610-XS-DR-2033-01</p>				<p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>				<p>LOCATION: PAMPA MELCHORITA</p>				<p>157883-610-XS-DR-2033-02</p>			

LEYENDA / LEGEND			
SÍMBOLO/SÍMBOLO	DESCRIPCIÓN/DESCRIPCIÓN	CANTIDAD/COUNT	UNIDAD/UNIT
	INTERRUPTOR FIJO / FIXED SWITCH	--	--
	INTERRUPTOR EXTRAIBLE / EXTRAIBLE SWITCH	--	--
	GENERADOR / GENERATOR	--	--



GENERAL NOTES

- MECHANICAL AND ELECTRICAL INTERLOCK TO PREVENT SIMULTANEOUS CLOSING OF BOTH BREAKERS. UNDER NORMAL OPERATING CONDITION INCOMER 2 WILL BE IN "CLOSED" POSITION. IN CASE OF FAILURE OF INCOMER 2 SUPPLY THE DIESEL GENERATOR WILL START AUTOMATICALLY LOAD WILL BE TRANSFERRED TO INCOMER -1 BY ATS. WHEN INCOMER-2 SUPPLY IS RESTORED, THE AND WITH MANUAL TRANSFER OF THE LOAD TO INCOMER-1, WILL BE CARRIED OUT USING THE AND WITH MANUAL TRANSFER OF THE LOAD TO INCOMER-1, WILL BE CARRIED OUT USING AUTOMATIC SYNCHRONISING, AS BACK-UP THE LOAD TRANSFER, AND THE SWITCHING OFF OF THE GENERATOR WILL BE CARRIED OUT MANUALLY.
- SPACE AND PLINTH REQUIRED FOR GENERATOR PACKAGE
- STATUS SIGNALS FROM BREAKERS VIA SERIAL COMMS TO ICSS SYSTEM
- FINAL SETTING OF NEUTRAL GROUNDING RESISTOR TO BE IN EXCESS OF SYSTEM CAPACITANCE CHARGING CURRENT AND SHALL BE CONFIRMED DURING COMMISSIONING.
- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLE:
 3X300AF -----> AMPERES FRAME
 3X300AT -----> AMPERES TRIP
 [C1] : CONTACTOR 3x50A, 380VAC, 60Hz
 [CF] : PHOTOELECTRIC CELL 1000W, 220V, 60Hz
- PILOT WIRE PROTECTION RELAY SUPPLIED FREE ISSUE BY CBAJ TO BE MOUNTED IN SG-9000 TRANSFORMER INCOMER CUBICLE
- SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- THE GENERATOR GROUND SHALL BE "INSULATED" TO MFG
- REFER TO DRAWING 157883-610-XS-SD-2035-09 FOR PROTECTION, METERING AND CONTROL DETAILS
- REDUNDANT MODEM FO / RS485 FOR CONTROL AND STATUS OF INCOMER 2 VIA GE SR750 AND STATUS OF INCOMER 1 VIA GE SR750
- FOR SERIAL COMMUNICATION FIBRE OPTIC CABLE DETAILS REFER TO DWG. 157883-000-IN-BD-0008, AND FIBRE OPTIC BACK BONE BLOCK DIAGRAM
- REFER TO DRAWING 157883-610-XS-DS-2035-10 FOR PROTECTION AND METERING DETAILS
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157880-610-XS-SH-0002 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.

<p>ISSUED FOR CONSTRUCTION</p>				<p>28/12/08</p>				<p>WPA</p>				<p>MEJ</p>			
<p>REVISION</p>				<p>DATE</p>				<p>BY</p>				<p>APPROVED</p>			
<p>DESCRIPTION</p>				<p>REVISION</p>				<p>DATE</p>				<p>BY</p>			
<p>REVISION</p>				<p>DATE</p>				<p>BY</p>				<p>APPROVED</p>			

157883-000-EL-SK-0010 / 157883-610-XS-SD-0010-01 ELECTRICAL BLOCK DIAGRAM SS-9000 / SINGLE LINE DIAGRAM 13.8KV SWITCHBOARD SS-4100

157883-610-XS-DS-0002 / 157883-610-XS-DR-2530-02 TECHNICAL DATA SHEET-SWITCHBOARD / ELECTRICAL BLOCK DIAGRAM

157883-000-EL-DS-0001 / 157883-610-XS-SD-2035-07 SUBSTATION SS-9000 TR-9000 CONTROL WIRING DIAGRAM

157883-000-IN-BD-0008 / 157883-610-XS-SD-0001-02 CABLE BLOCK DIAGRAM MCC INTERFACE EXDAMONS / KEY SINGLE LINE DIAGRAM

157883-610-XS-DS-0003 / 157883-610-XS-SD-2035-08 VENDOR TRANSFORMER TR-9001 / SUBSTATION SS-9000 TR-9000 CONTROL WIRING DIAGRAM

157883-610-XS-CC-0005 / 157883-610-XS-SD-2035-09 SHORT CIRCUIT FAULT STUDY / PROTECTION AND METERING DIAGRAM SS-9000 6.6KV SWITCHBOARD

PACKAGE SUBSTATION SS-9000
ELECTRICAL SINGLE LINE DIAGRAMS FOR
SG-9000 AND DP-9000

SUBSTATION SS-9000
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

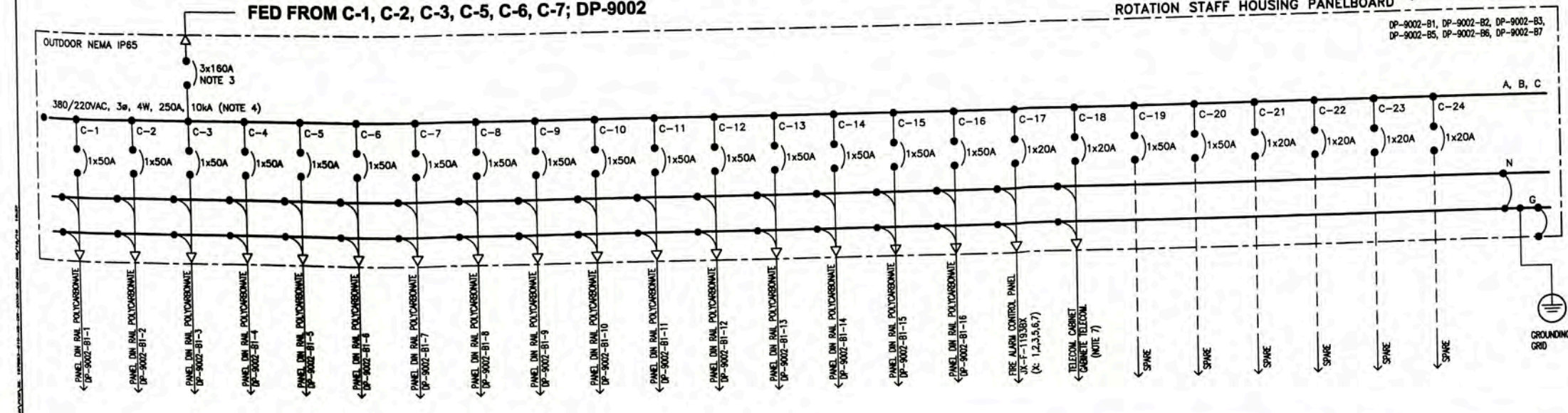
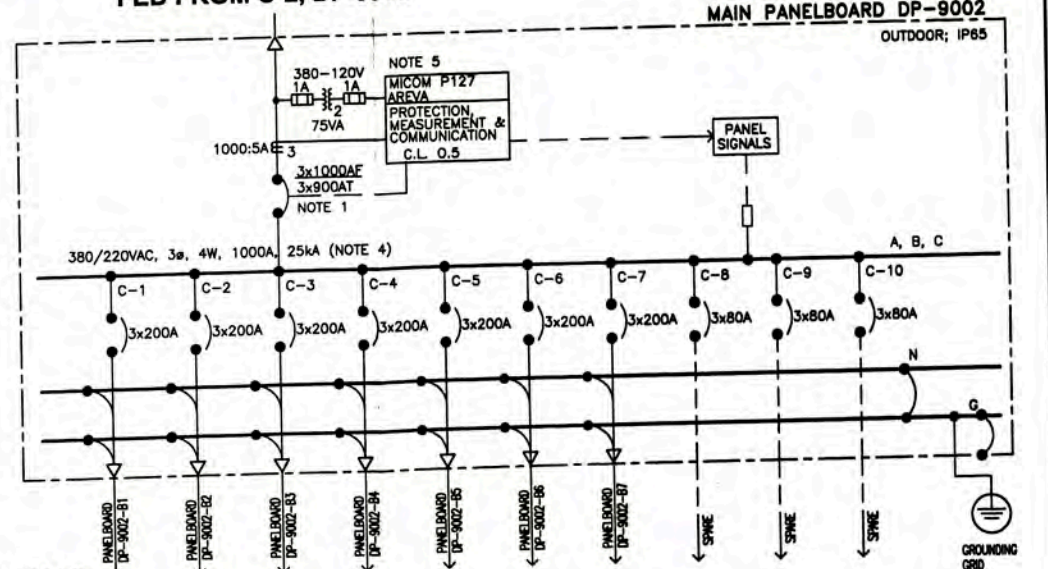
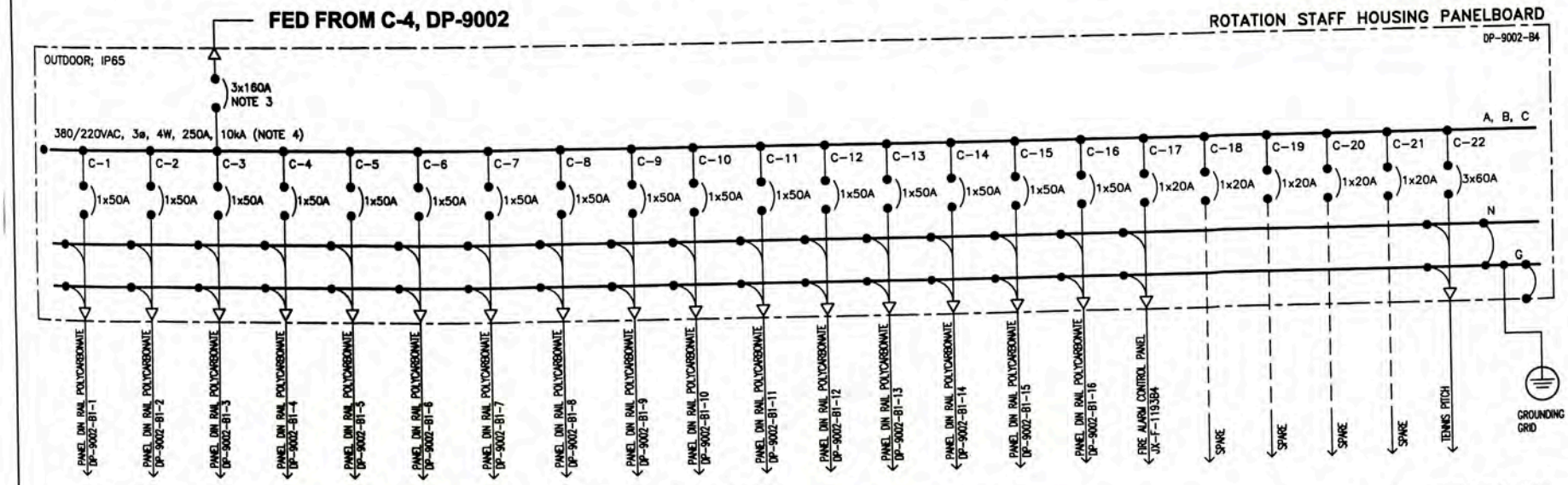
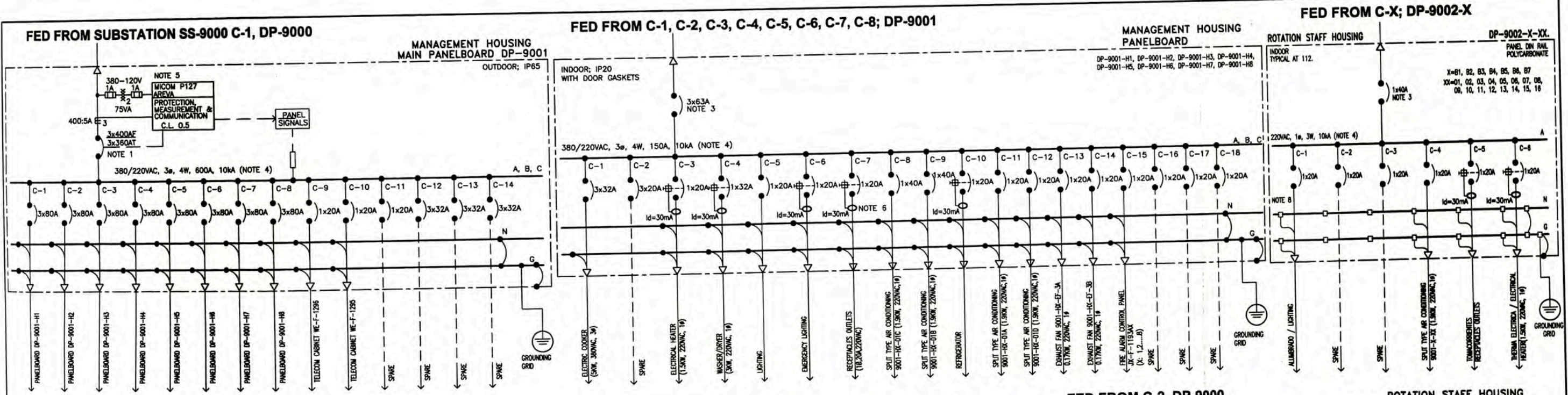
PERU LNG EXPORT PROJECT
 PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
 PAMPA MELCHORITA

DRAWING NO: WPA
 DESIGNED BY: COU
 CHECKED BY: FTA
 PROJECT NO: 1618
 DATE: 01/07/08
 SCALE: INDICATED
 REVISION: 0

APPROVED BY: JMG
 PROJECT NO: 1618
 DATE: 01/07/08
 SCALE: INDICATED
 REVISION: 0

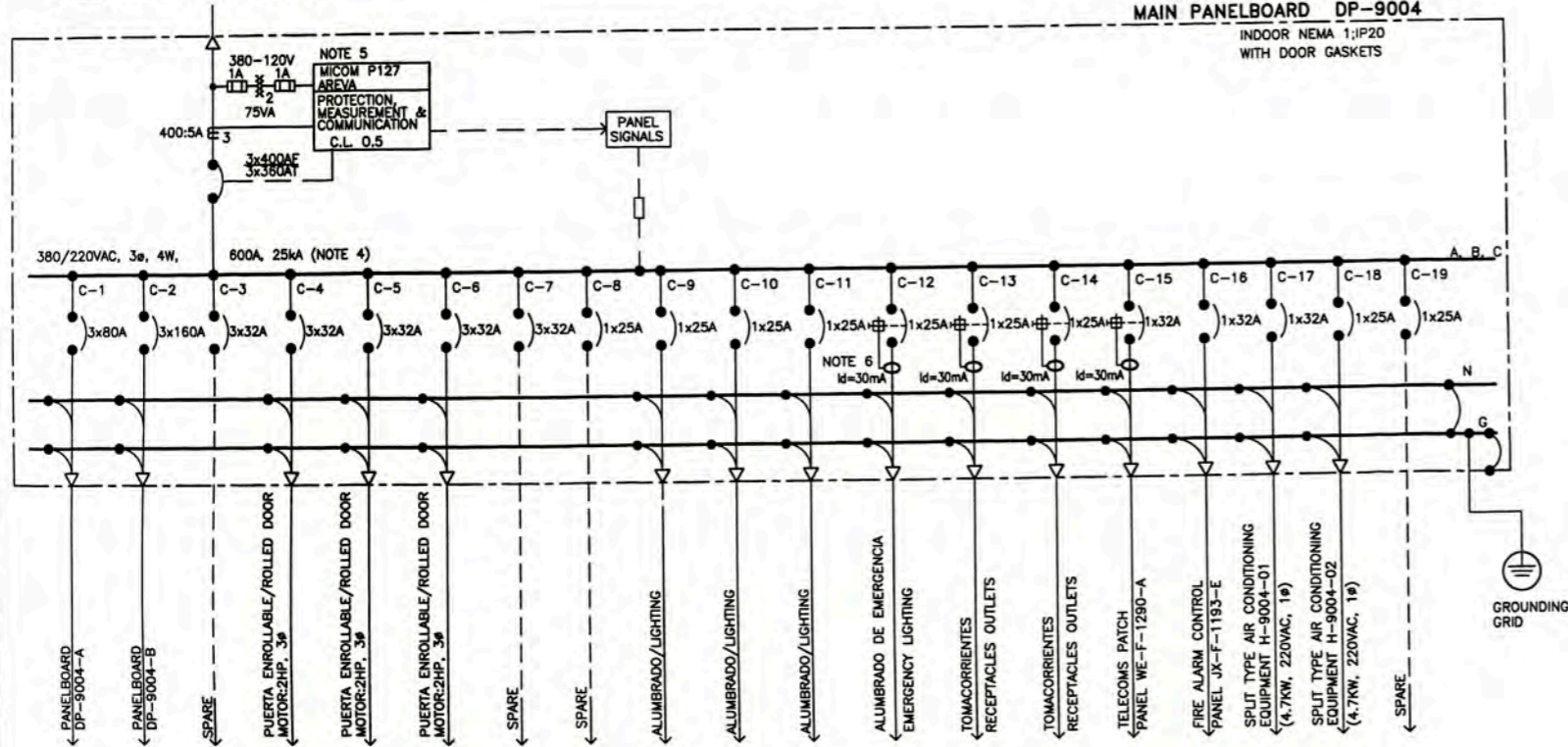
DRAWING NO: 157883-610-XS-DR-2035-01



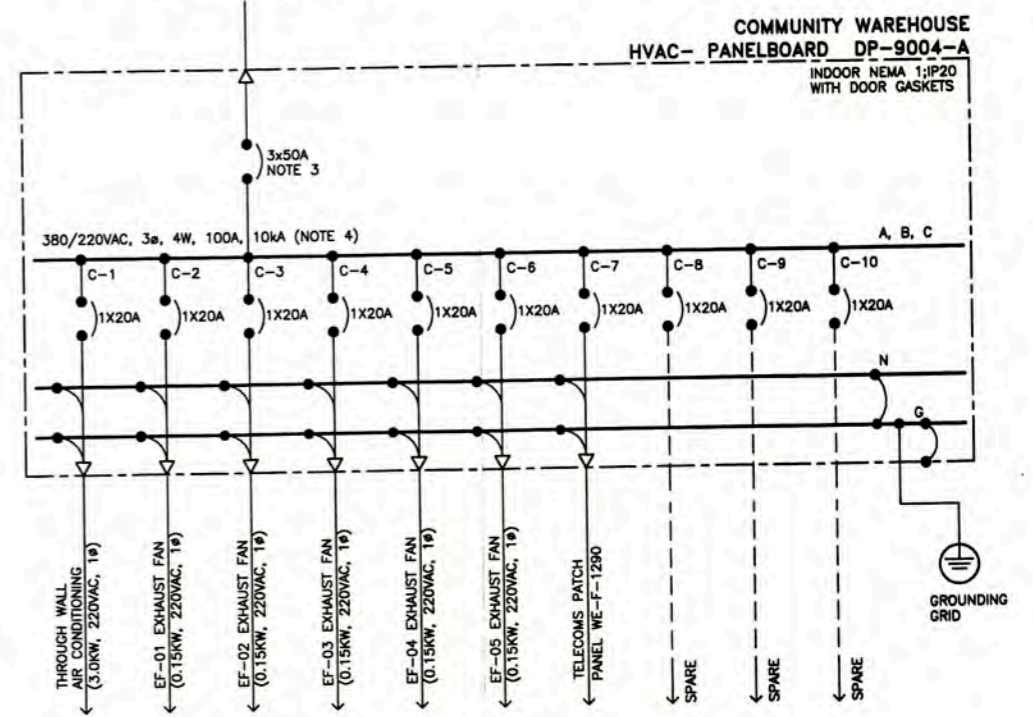
- GENERAL NOTES**
- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE
 3x800AF → AMPERES FRAME
 3x800AT → AMPERES TRIP
 - SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
 - LA TENSION NOMINAL DEL AISLAMIENTO DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
 THE RATED INSULATION VOLTAGE OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
 - VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005
 SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
 - REFER TO DRAWING 157883-610-XS-05-2035-10 FOR PROTECTION AND METERING DETAILS
 - ALL GFCIs OR RCDs OR Ids SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR
 - THE FEEDERS TO FIRE ALARM AND COMMUNICATION CABINET:
 WE-F-1291, FROM C-18, DP-9002 B3
 WE-F-1292, FROM C-18, DP-9002 B7
 WE-F-1294, FROM C-18, DP-9002 B5
 - TERMINAL BLOCK FOR CONNECTIONS.
 BLOQUE DE TERMINALES PARA CONEXIONES.

ISSUED FOR CONSTRUCTION 01/07/08		157883-610-XS-SH-0001 157883-610-XS-DR-2035-01 157883-610-XS-DR-2330-02 157883-610-XS-CC-0005		PCB ELECTRICAL LOAD SCHEDULE ELECTRICAL SINGLE LINE DIAGRAM FOR SS-9000 AND DP-9000 PCB ELECTRICAL BLOCK DIAGRAM SHORT CIRCUIT FAULT STUDY		SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9001, DP-9002, 9002(B1-B7) AND 9001(H1-H8)	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		PROJECT NO. 1618		157883-610-XS-DR-2035-02	

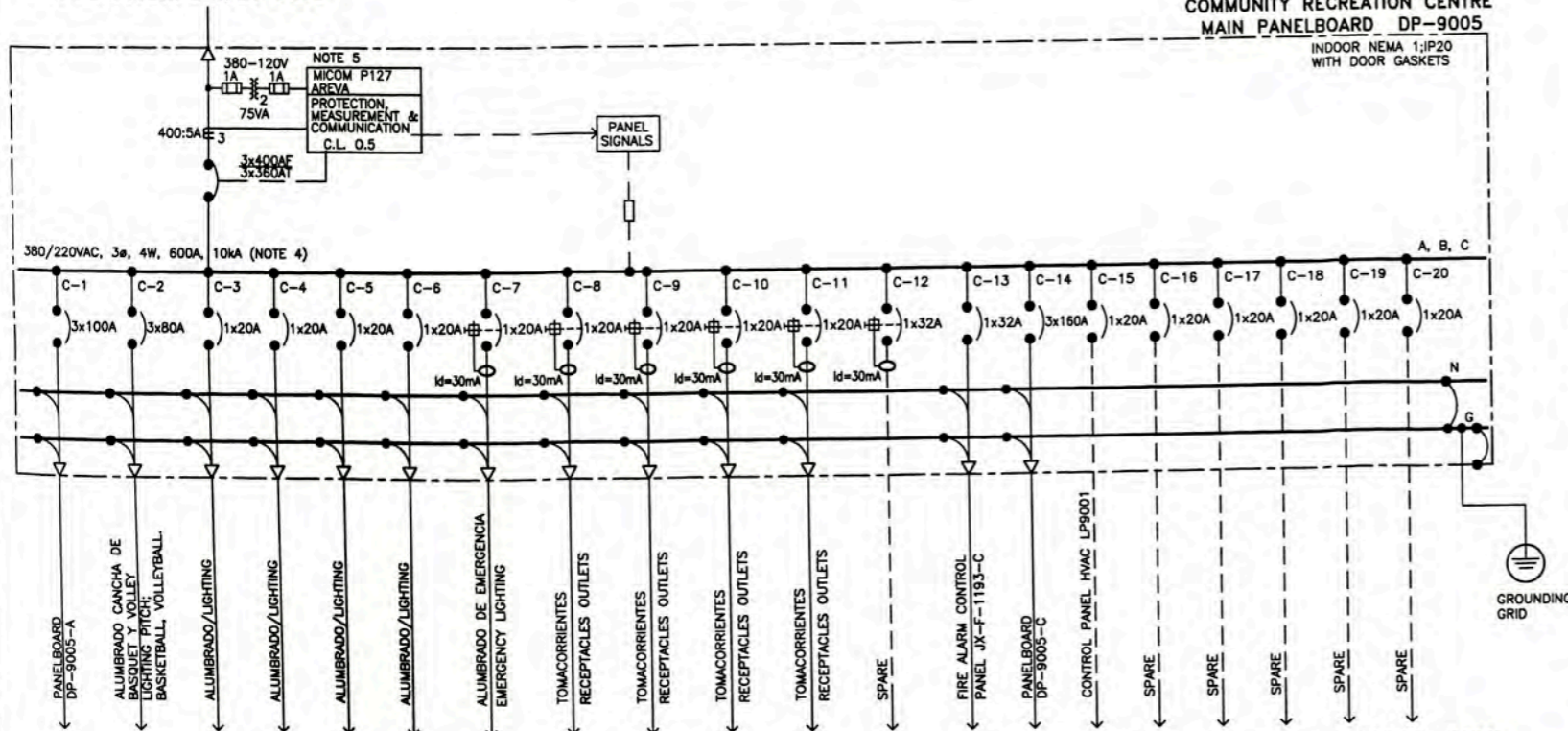
FED FROM C-3, DP-9000



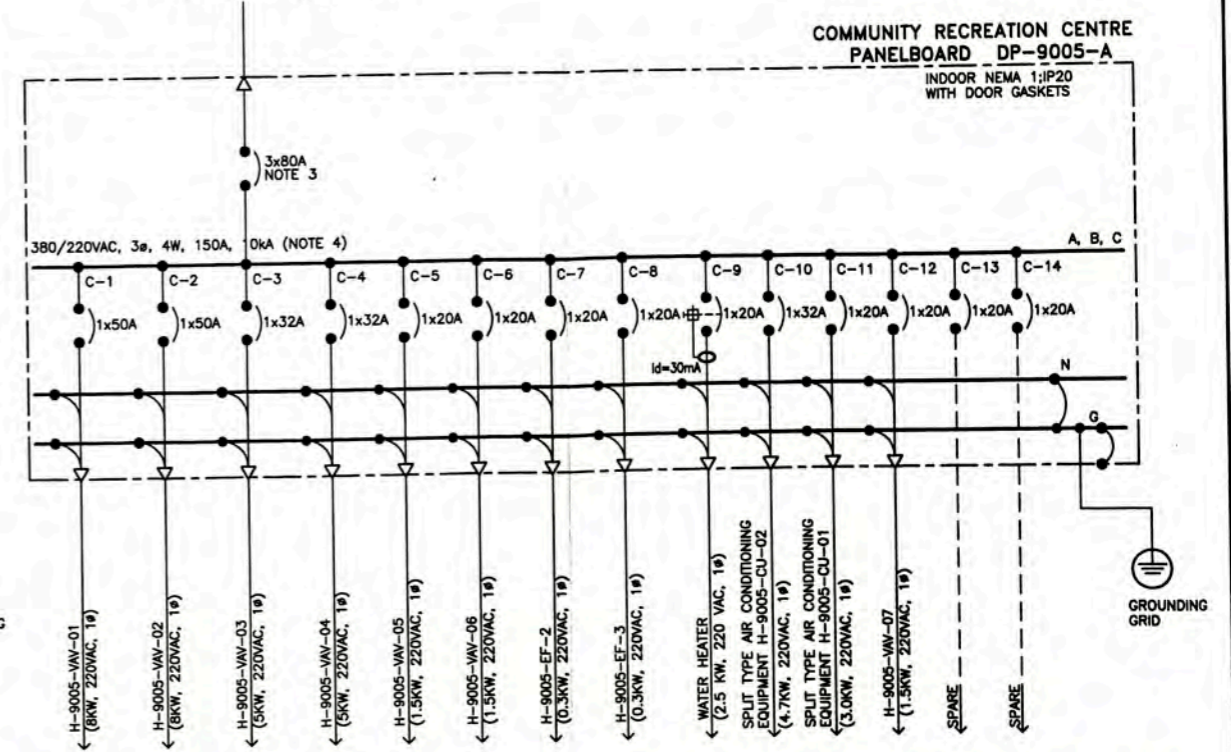
FED FROM C-1, DP-9004



FED FROM C-4, DP-9000



FED FROM C-1, DP-9005



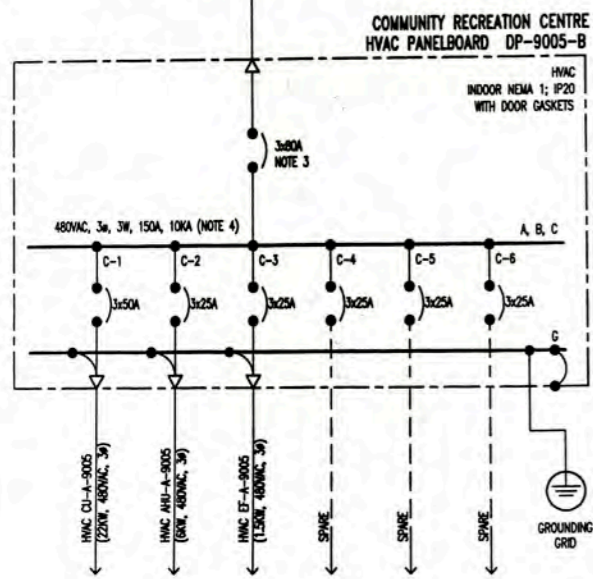
GENERAL NOTES

- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES:
3X800AF -----> AMPERES FRAME
3X800AT -----> AMPERES TRIP
- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- LA TENSION NOMINAL DEL AISLAMIENTO UI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
THE RATED INSULATION VOLTAGE UI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.

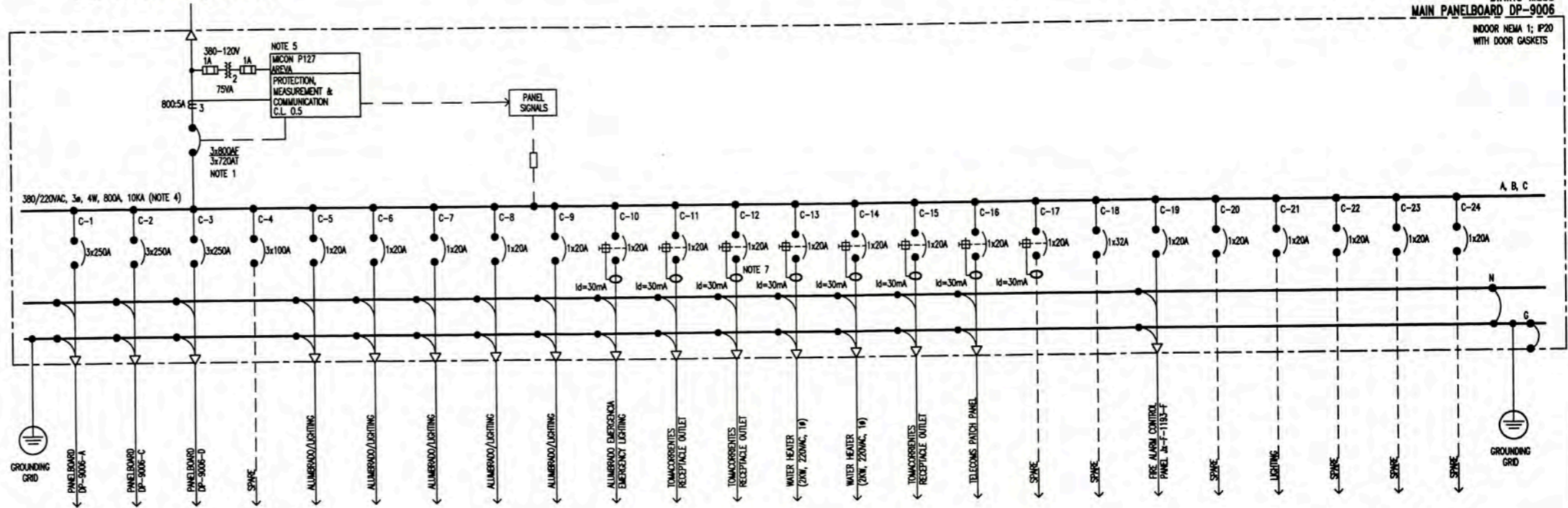
- VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005
SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- REFER TO DRAWING 157883-610-XS-DR-2035-10 FOR PROTECTION METERING DETAILS
- ALL GFCIs OR RCDs OR IDs SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR

<p>ISSUED FOR CONSTRUCTION</p>				<p>REVISIONS</p>				<p>DATE</p>				<p>BY</p>				<p>APPROVED</p>			
<p>157883-610-XS-DR-2035-12</p>				<p>157883-610-XS-DR-2035-01</p>				<p>157883-610-XS-DR-2035-03</p>				<p>157883-610-XS-DR-2035-02</p>				<p>157883-610-XS-DR-2035-11</p>			
<p>ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9005-C</p>				<p>ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9000 AND DP-9004</p>				<p>LOW VOLTAGE POWER LAYOUT</p>				<p>ELECTRICAL BLOCK DIAGRAM</p>				<p>ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004-A, DP-9004-B AND DP-9004-C</p>			
<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>DESIGNED BY: WPA</p>				<p>DESIGNED BY: COU</p>				<p>DESIGNED BY: FTA</p>				<p>DESIGNED BY: JMG</p>			
<p>PROJECT NO: 157883-610-XS-DR-2035-03</p>				<p>SCALE: AS INDICATED</p>				<p>DATE: 01/07/08</p>				<p>PROJECT NO: 1618</p>				<p>PROJECT NO: 0</p>			
<p>PROJECT: SUBSTATION SS-9000 FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FEE)</p>				<p>PROJECT: PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A</p>				<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>			

FED FROM C-4, DP-9007-B

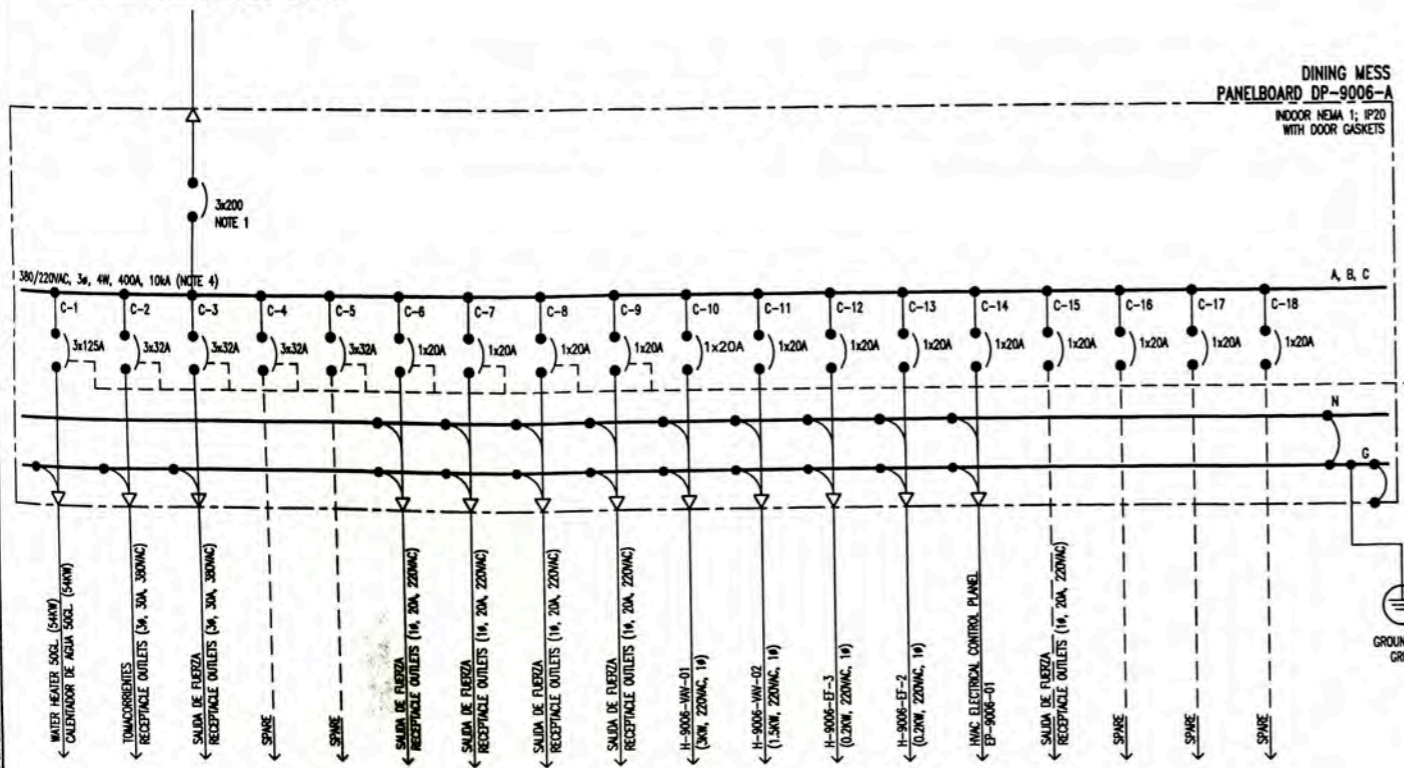


FED FROM C-5, DP-9000



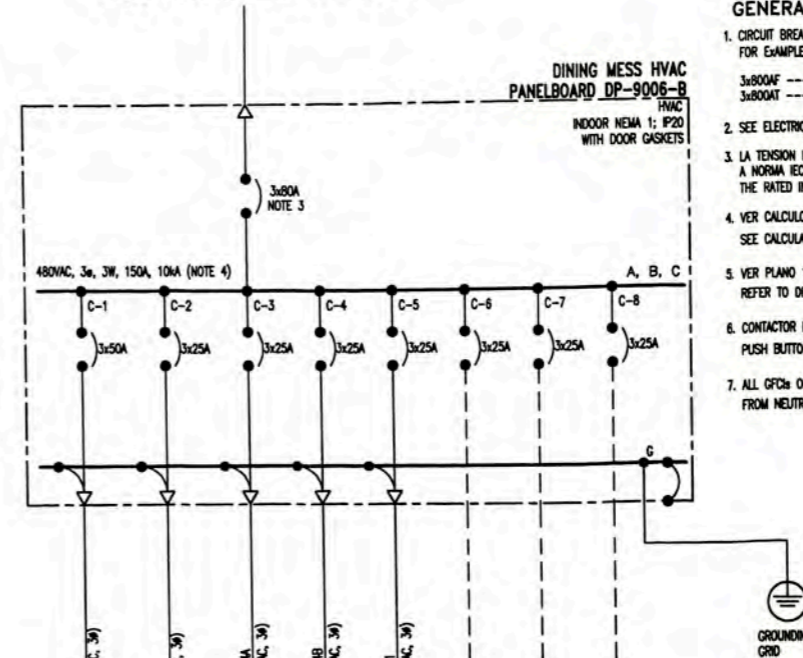
DINING MESS
MAIN PANELBOARD DP-9006
INDOOR NEMA 1; IP20
WITH DOOR GASKETS

FED FROM C-1, DP-9006



DINING MESS
PANELBOARD DP-9006-A
INDOOR NEMA 1; IP20
WITH DOOR GASKETS

FED FROM C-5, DP-9007-B



DINING MESS HVAC
PANELBOARD DP-9006-B
INDOOR NEMA 1; IP20
WITH DOOR GASKETS

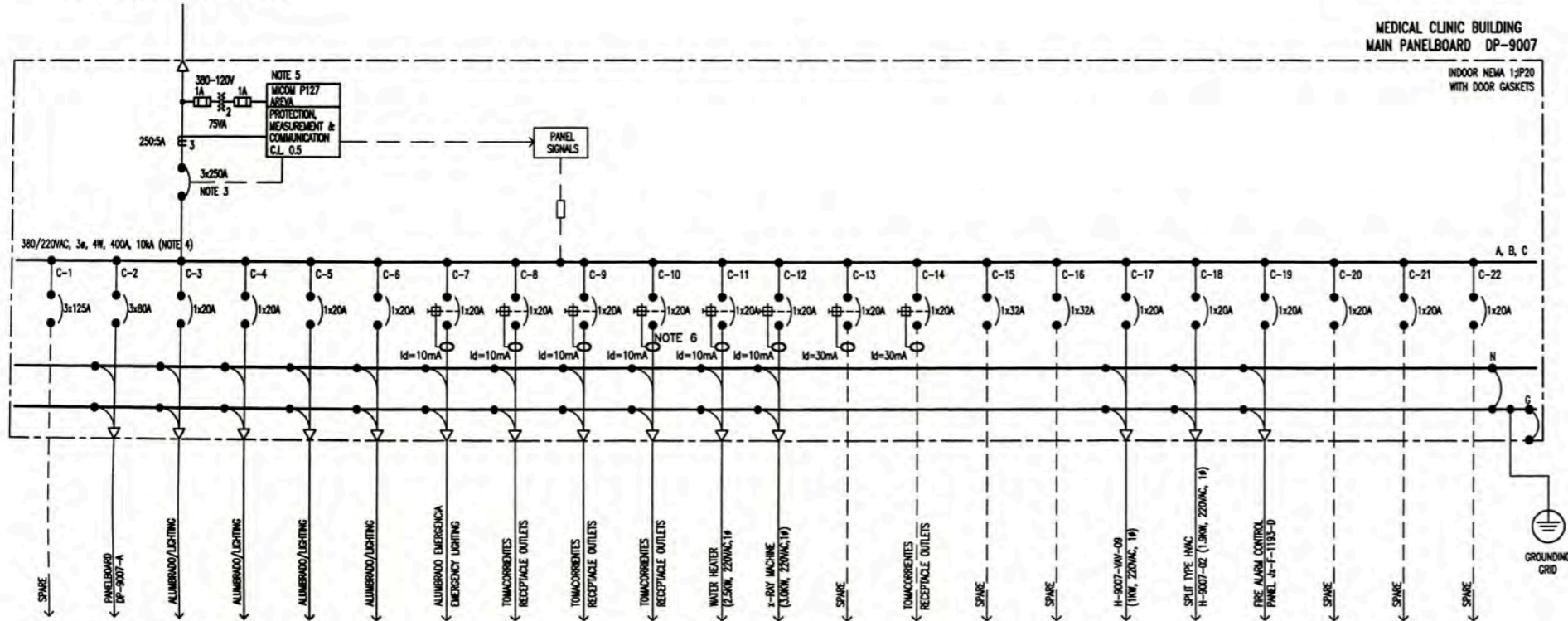
GENERAL NOTES

- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES FOR EXAMPLES
3x800AF ----->AMPERES FRAME
3x800AT ----->AMPERES TRIP
- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- LA TENSION NOMINAL DEL ASLAMIENTO LI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
THE RATED INSULATION VOLTAGE LI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
- VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005
SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- VER PLANO 157883-610-XS-DS-2035-10
REFER TO DRAWING 157883-610-XS-DS-2035-10 FOR PROTECTION AND METERING DETAILS
- CONTACTOR FED SUPPLIES FOR FRED KITCHEN / COOKING EQUIPMENT SO AS TO INCORPORATE AN EMERGENCY PUSH BUTTON IN KITCHEN TO ISOLATE SUPPLY TO EQUIPMENT
- ALL GFCIs OR RCDs OR IOb SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR

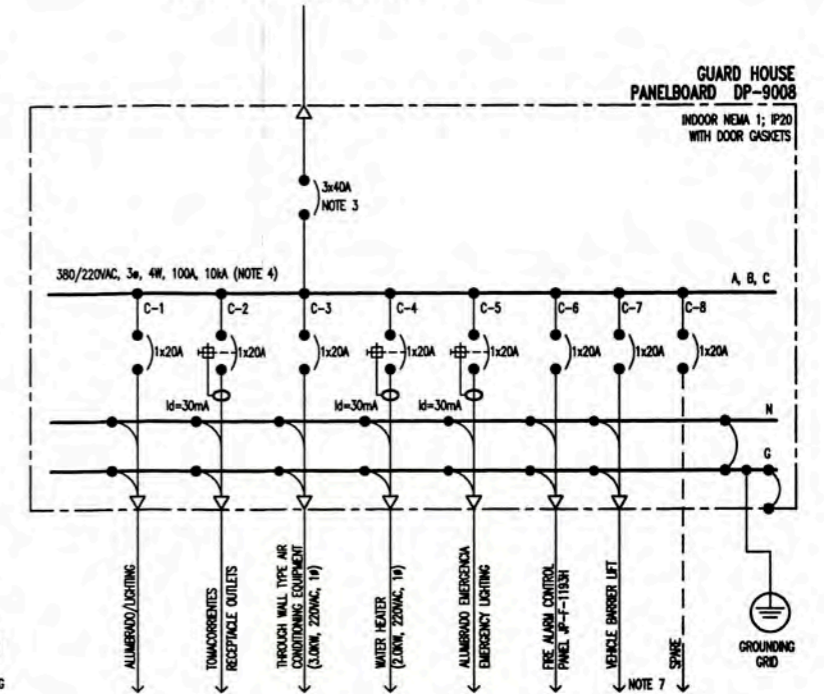
157883-610-XS-DR-2035-05	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9007, DP-9007-A, DP-9007-B AND DP-9008
157883-610-XS-DR-2035-01	ELECTRICAL SINGLE LINE DIAGRAM PACKAGE SUBSTATION SS-9000
157883-610-XS-DR-2330-03	PCB LOW VOLTAGE POWER LAYOUT
157883-610-XS-DR-2330-02	PCB ELECTRICAL BLOCK DIAGRAM
157883-610-XS-DS-0002	DATA SHEET SWITCHBOARD
157883-610-XS-DR-2330-01	GENERAL PLAN LAYOUT

<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p> <p>DESIGNED BY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) CHECKED BY: PAMPA MELCHORITA</p>		<p>PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-B, DP-9006, DP-9006-A AND DP-9006-B</p> <p>ISSUED FOR CONSTRUCTION</p>	
<p>APPROVED BY: WPA</p> <p>DATE: 01/07/08</p>	<p>APPROVED BY: COU</p> <p>DATE: 01/07/08</p>	<p>APPROVED BY: FTA</p> <p>DATE: 1618</p>	<p>APPROVED BY: JMG</p> <p>DATE: 0</p>
<p>PROJECT NO: 157883-610-XS-DR-2035-04</p>		<p>DRAWING NO: 157883-610-XS-DR-2035-04</p>	

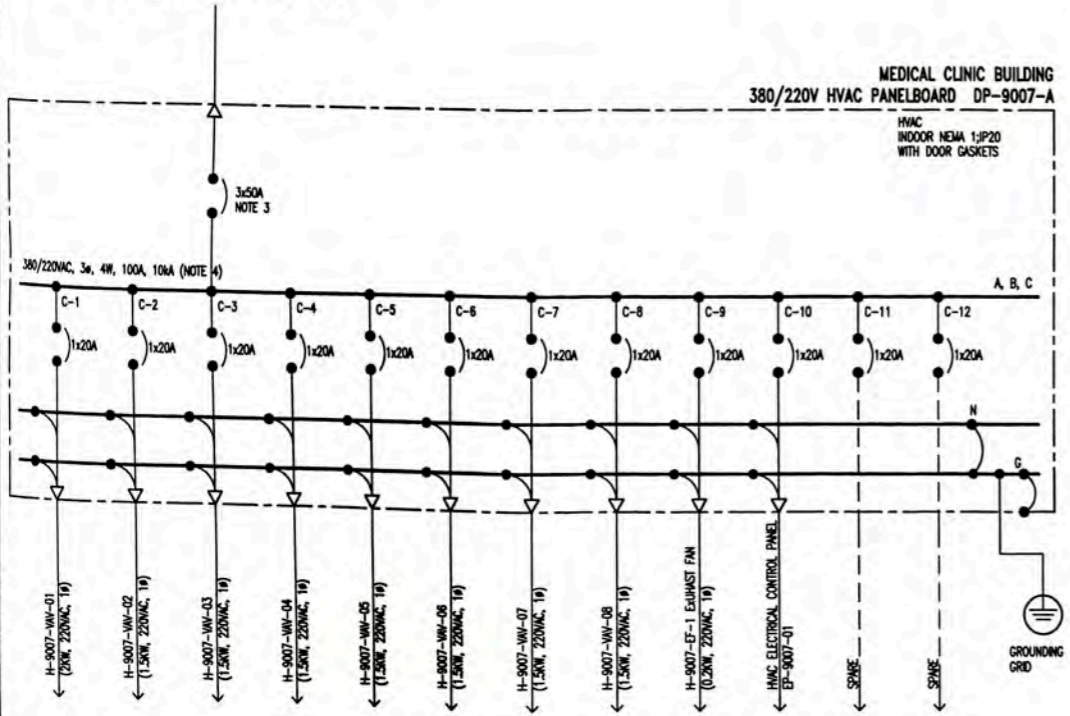
FED FROM C-6, DP-9000



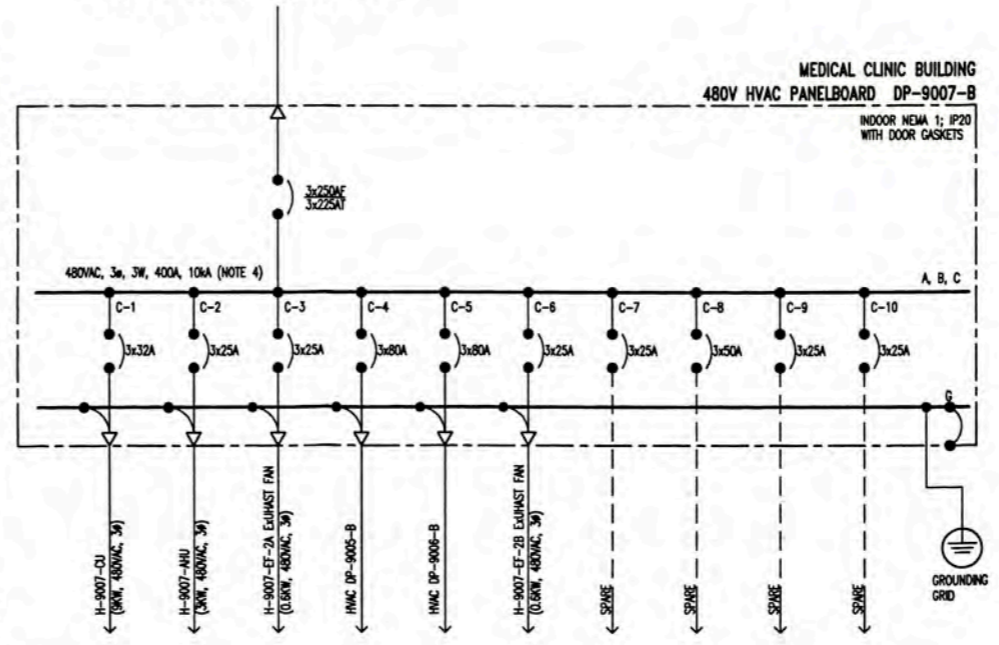
FED FROM C-10, DP-9000



FED FROM C-2, DP-9007



FED FROM C-3, SG-9000



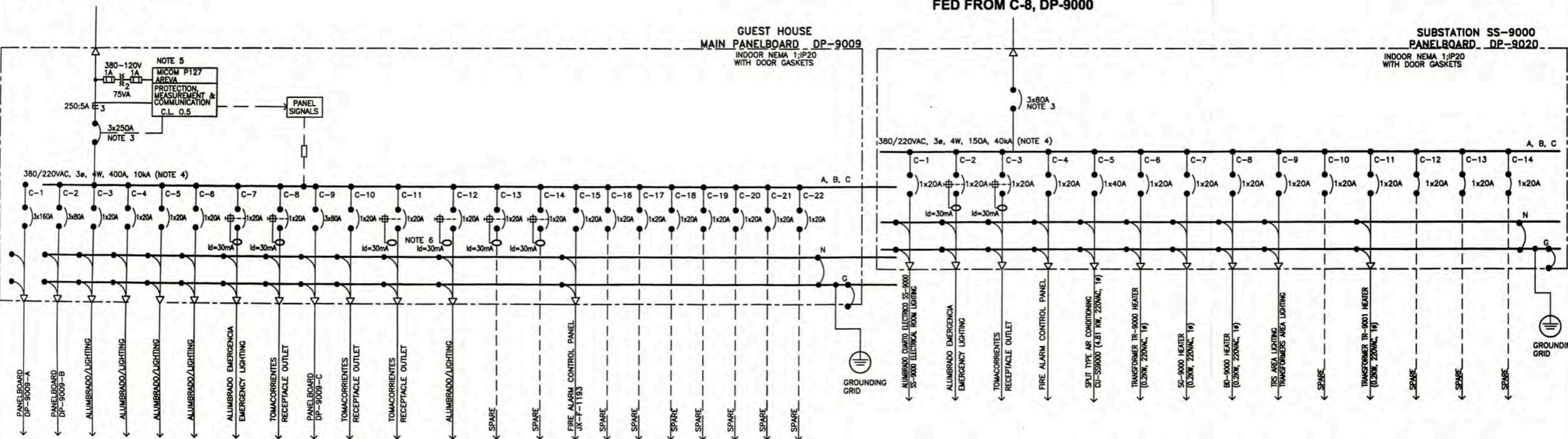
GENERAL NOTES

- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES
3x800AF ----->AMPERES FRAME
3x800AT ----->AMPERES TRIP
- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0001
- LA TENSION NOMINAL DEL AISLAMIENTO LI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
THE RATED INSULATION VOLTAGE LI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
- VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005
SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- VER PLANO 157883-610-XS-DS-2035-10
REFER TO DRAWING 157883-610-XS-DS-2035-10 FOR PROTECTION AND METERING DETAILS
- ALL GFCIs OR RCDS OR IDIs SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR.
- EL CONCONDONADO E INSTALACION A LA BARRERA DE VEHICULOS SERAN POR OTROS
THE CONNECTIONS AND INSTALLATIONS VEHICLE BARRIER LIFT SHALL BE BY OTHERS

ISSUED FOR CONSTRUCTION		157883-610-XS-DR-2035-01		ELECTRICAL SINGLE LINE DIAGRAM FOR SG-9000 AND DP-9000		SUBSTATION SS-9000		DRAWING PLAN :	
DESIGN/REV		157883-610-XS-DR-2330-03		LOW VOLTAGE POWER LAYOUT		FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PACKAGE SUBSTATION SS-9000	
APPROVED		157883-610-XS-DR-2330-02		ELECTRICAL BLOCK DIAGRAM		PERU LNG EXPORT PROJECT		ELECTRICAL SINGLE LINE DIAGRAMS FOR	
DATE				REVISIONS		PERMANENT COMMUNITY BUILDINGS		DP-9007-A, DP-9007-B AND DP-9008	
BY				NO.		INGENIERIA ELECTRICA		DRAWING BY: WPA	
BY				DATE		(ELECTRICAL ENGINEERING)		CHECKED BY: COU	
BY				DATE		PAMPA MELCHORITA		APPROVED BY: FTA	
BY				DATE				APPROVED BY: JMG	
BY				DATE				APPROVED BY: 0	
BY				DATE				PROJECT NO. 1618	
BY				DATE				REVISION NO. 0	
BY				DATE				DRAWING NO. 157883-610-XS-DR-2035-05	

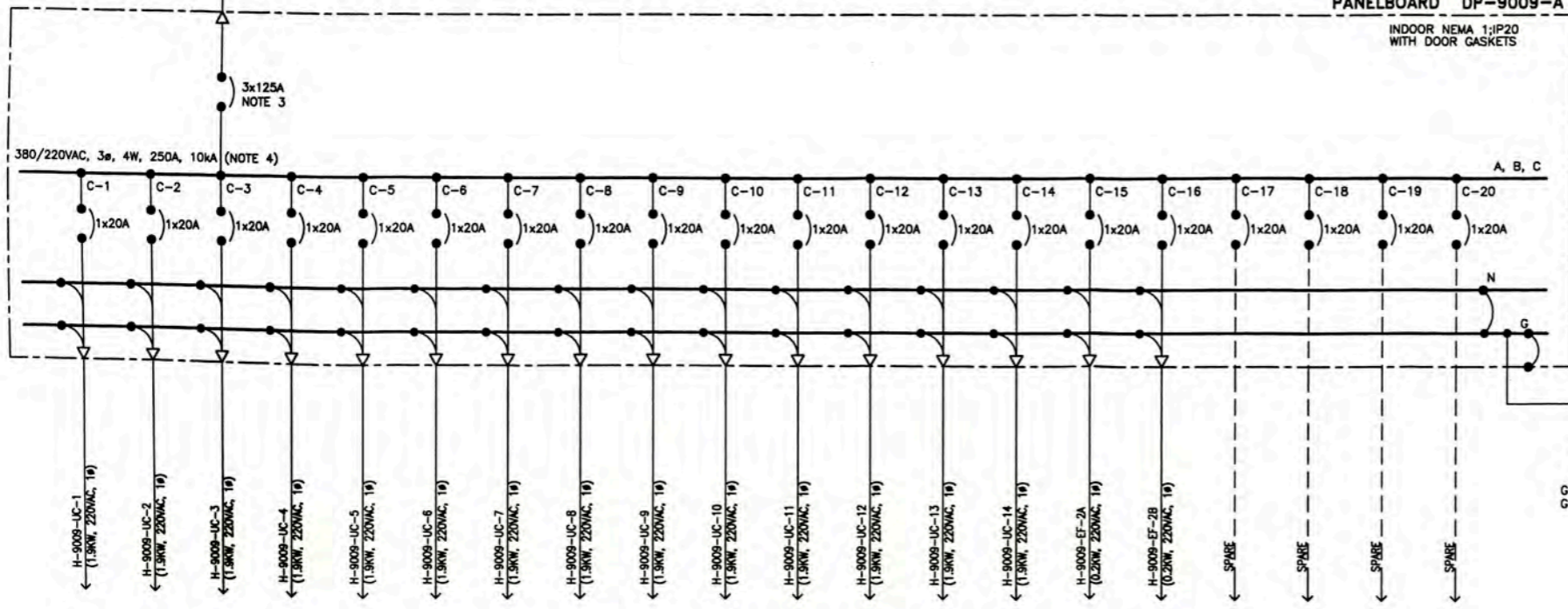
FED FROM C-7, DP-9000

FED FROM C-8, DP-9000



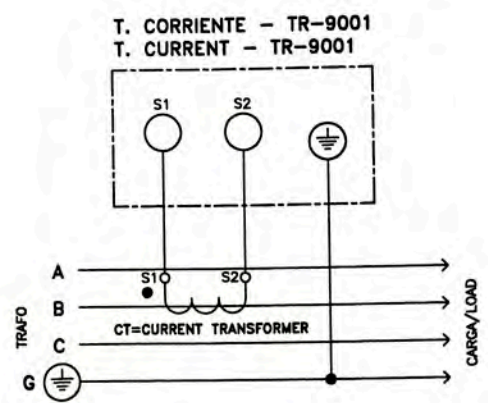
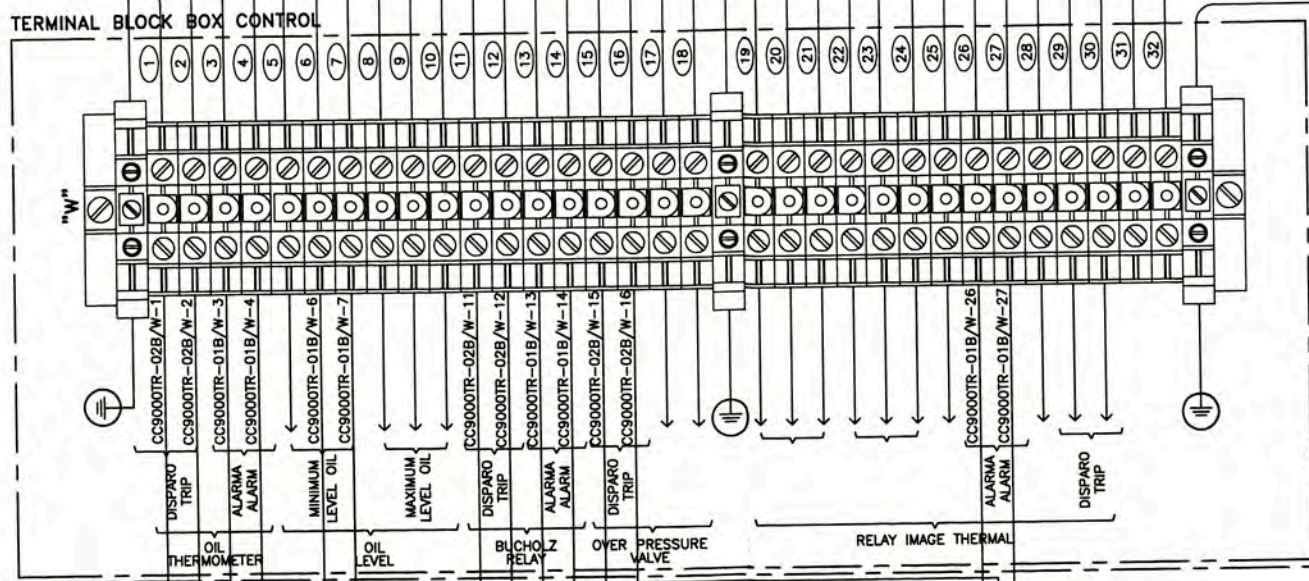
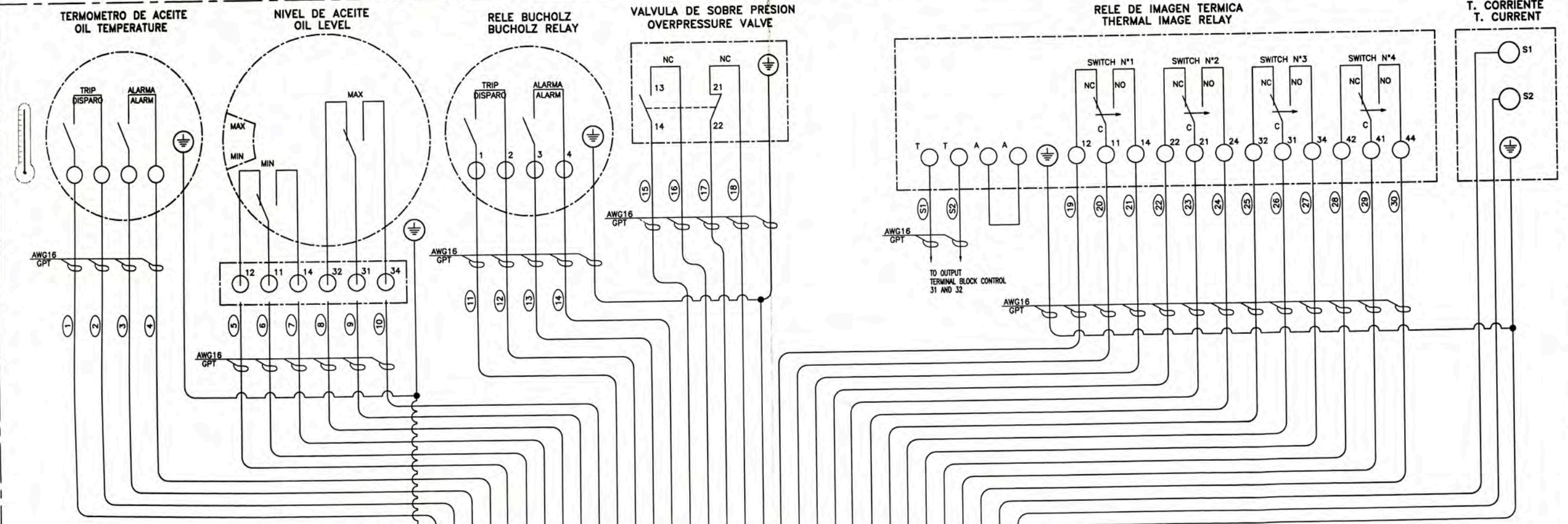
FED FROM C-1, DP-9009

GUEST HOUSE HVAC PANELBOARD DP-9009-A



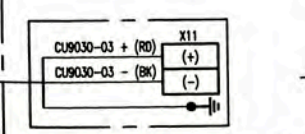
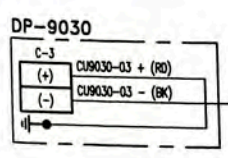
- GENERAL NOTES**
1. CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES
 3X800AF -----> AMPERES FRAME
 3X800AT -----> AMPERES TRIP
 2. SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
 3. LA TENSION NOMINAL DEL AISLAMIENTO UI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
 THE RATED INSULATION VOLTAGE UI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
 4. VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005 SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
 5. VER PLANO 157883-610-XS-DR-2035-10 REFER TO DRAWING 157883-610-XS-DR-2035-10 FOR PROTECTION AND METERING DETAILS
 6. ALL GFCIs OR RCDs OR IDs SHALL BE WITH THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR
 7. IN ACCORDANCE TO DATA SHEET 157883-610-XS-DS-0003 THE TRANSFORMER TR-9001 NOT HAVE HEATER

<p>157883-610-XS-DR-2035-03 157883-610-XS-DR-2035-02 157883-610-XS-DR-2035-01 157883-610-XS-DR-2035-11 157883-610-XS-DR-2035-01</p>		<p>POWER LAYOUT FOR AIR CONDITIONING EQUIPMENT WP GUEST HOUSE A-9009 POWER AND RECEPTACLE OUTLETS WP GUEST HOUSE A-9009 LIGHTING DISTRIBUTION LAYOUT WP GUEST HOUSE A-9009 ELECTRICAL SINGLE LINE DIAGRAM DP-9009-A, DP-9009-B AND DP-9009-C ELECTRICAL SINGLE LINE DIAGRAM FOR SS-9000 AND DP-9000</p>		<p>PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p> <p>DESIGNED BY: WPA CHECKED BY: COU DATE: 01/07/08</p>		<p>PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9009, DP-9009-A AND DP-9020</p> <p>PROJECT NO: 1618 REVISION: 0</p>		<p>157883-610-XS-DR-2035-06</p>
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LEYENDA/LEGEND

CT	15VA, 3200/5 A CL. 0.5	R. IMAGEN TERMICA R. IMAGE THERMAL
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SUBSTATION SS-9000
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

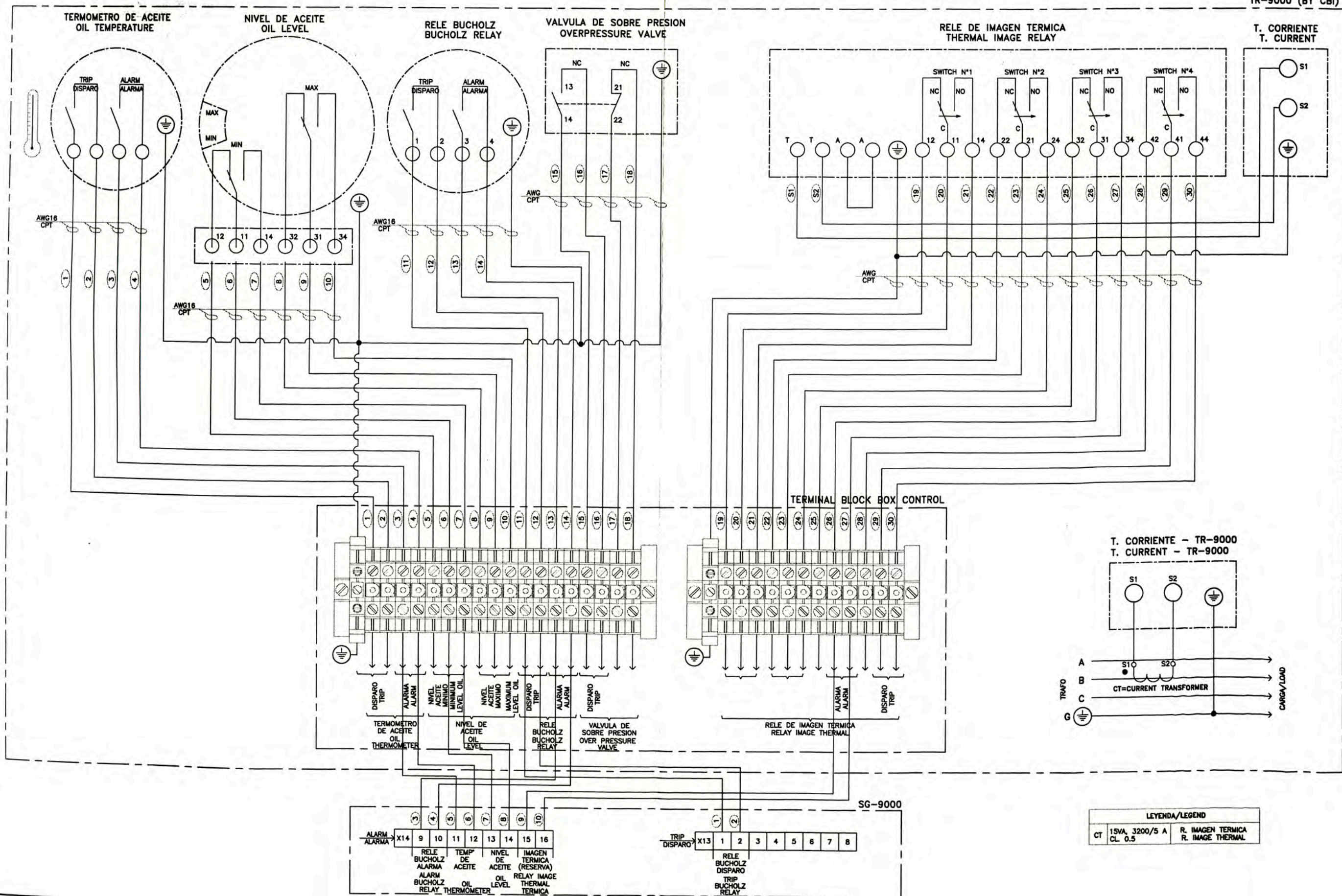
SUBSTATION SS-9000
TR-9001 CONTROL WIRING DIAGRAM

PROJECT: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
LOCATION: PAMPA MELCHORITA

ISSUED FOR CONSTRUCTION

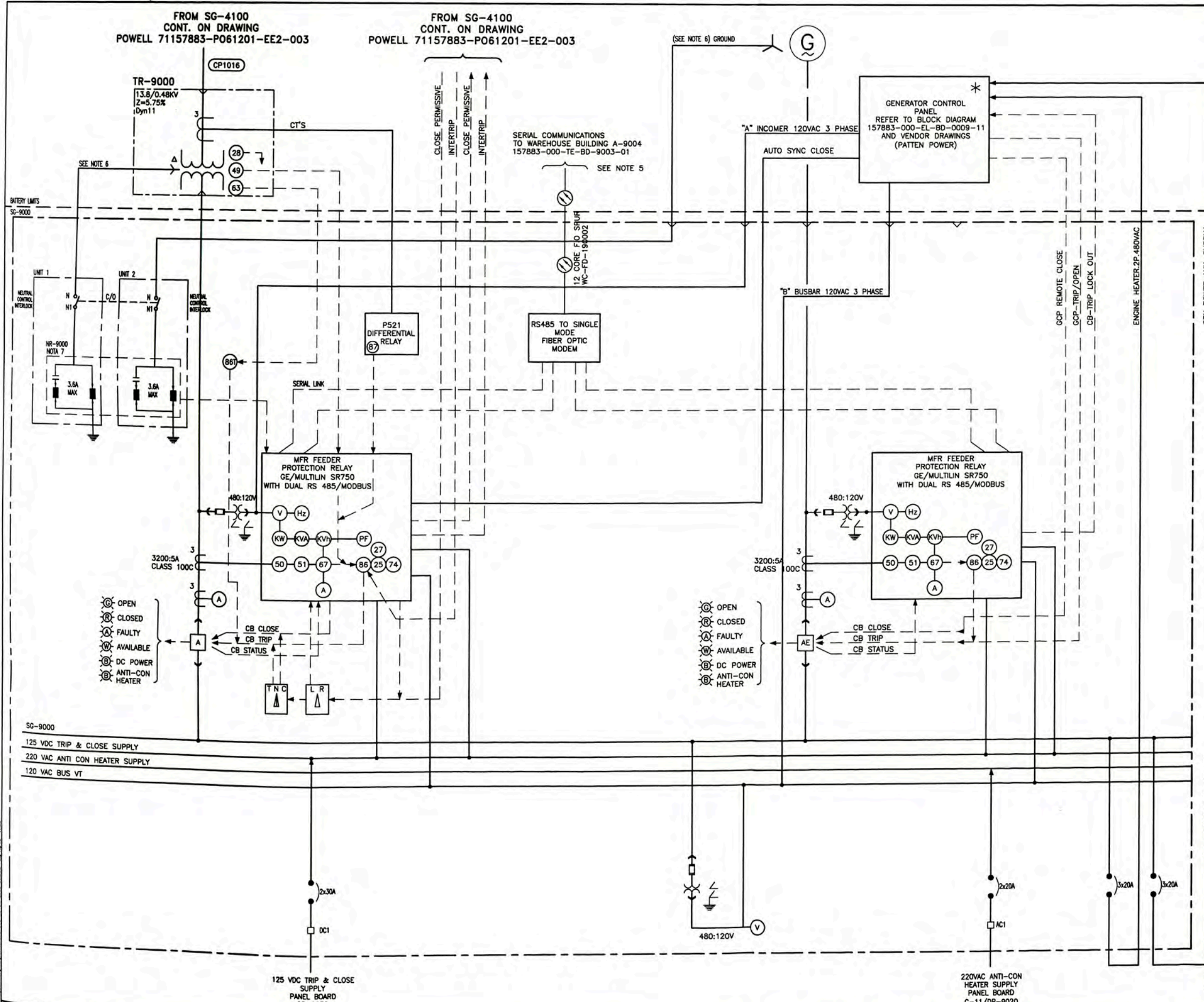
DESIGNED BY: WPA	CHECKED BY: COU	APPROVED BY: FTA	APPROVED BY: JMG	DATE: 01/07/08	PROJECT NO: 1618	REVISION: 0	DWG NO: 157883-610-XS-DR-2035-07
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LEYENDA/LEGEND
 CT 15VA, 3200/5 A CL 0.5 R. IMAGEN TERMICA R. IMAGE THERMAL

FROM SG-4100
CONT. ON DRAWING
POWELL 71157883-PO61201-EE2-003

FROM SG-4100
CONT. ON DRAWING
POWELL 71157883-PO61201-EE2-003



- NOTES**
- ONE OUT TWO CIRCUIT BREAKERS ARE NORMALLY CLOSED.
 - TRANSFER WILL BE AUTOMATICALLY BLOCKED UNDER FAULT CONDITIONS OR WHEN MANUALLY SELECTED BY AUTO / TRANSFER SELECTOR SWITCH.
 - ON RESTORATION OF VOLTAGE TO TR-9000 A NO-BREAK TRANSFER FROM THE GENERATOR SHALL BE BY MANUAL OR AUTOMATIC SYNCHRONIZING FROM THE GENERATOR CONTROL PANEL.
 - ON DETECTION OF A GROUND FAULT, THE HIGH RESISTANCE GROUNDING CONTROL PANEL WILL ALARM AN OPERATOR WILL INITIATE THE PULSING SYSTEM AND WILL MANUALLY IDENTIFY AND ISOLTE THE FAULTED CIRCUIT.
 - F.O CABLE BY OTHERS
 - THE GENERATOR AND TRANSFORMER NEUTRAL CONDUCTORS SHALL BE "WHITE" INSULATED TO NR
 - NEUTRAL CONDUCTORS TO BE SWITCHED SUCH THAT ONLY 1 NEUTRAL IS CONNECTED TO THE NEUTRAL RESISTOR (NR-9000) AT ANY ONE TIME. SEE DRAWING POWEL N°1036440101305

<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)</p>				<p>PROTECCION Y MEDICION DE INGENIERIA SG-9000 0.48KV SWITCHGEAR</p>			
<p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>PROYECTO: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>			
<p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>		<p>INGENIERIA ELECTRONICA (ELECTRONIC ENGINEERING)</p>		<p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>		<p>INGENIERIA ELECTRONICA (ELECTRONIC ENGINEERING)</p>	
<p>157883-610-45-DR-2035-01</p>		<p>157883-000-EL-SD-0002</p>		<p>157883-000-EL-SD-0001</p>		<p>157883-610-XS-DR-2035-09</p>	
<p>ISSUED FOR CONSTRUCTION</p>				<p>DATE: 01/07/08</p>			

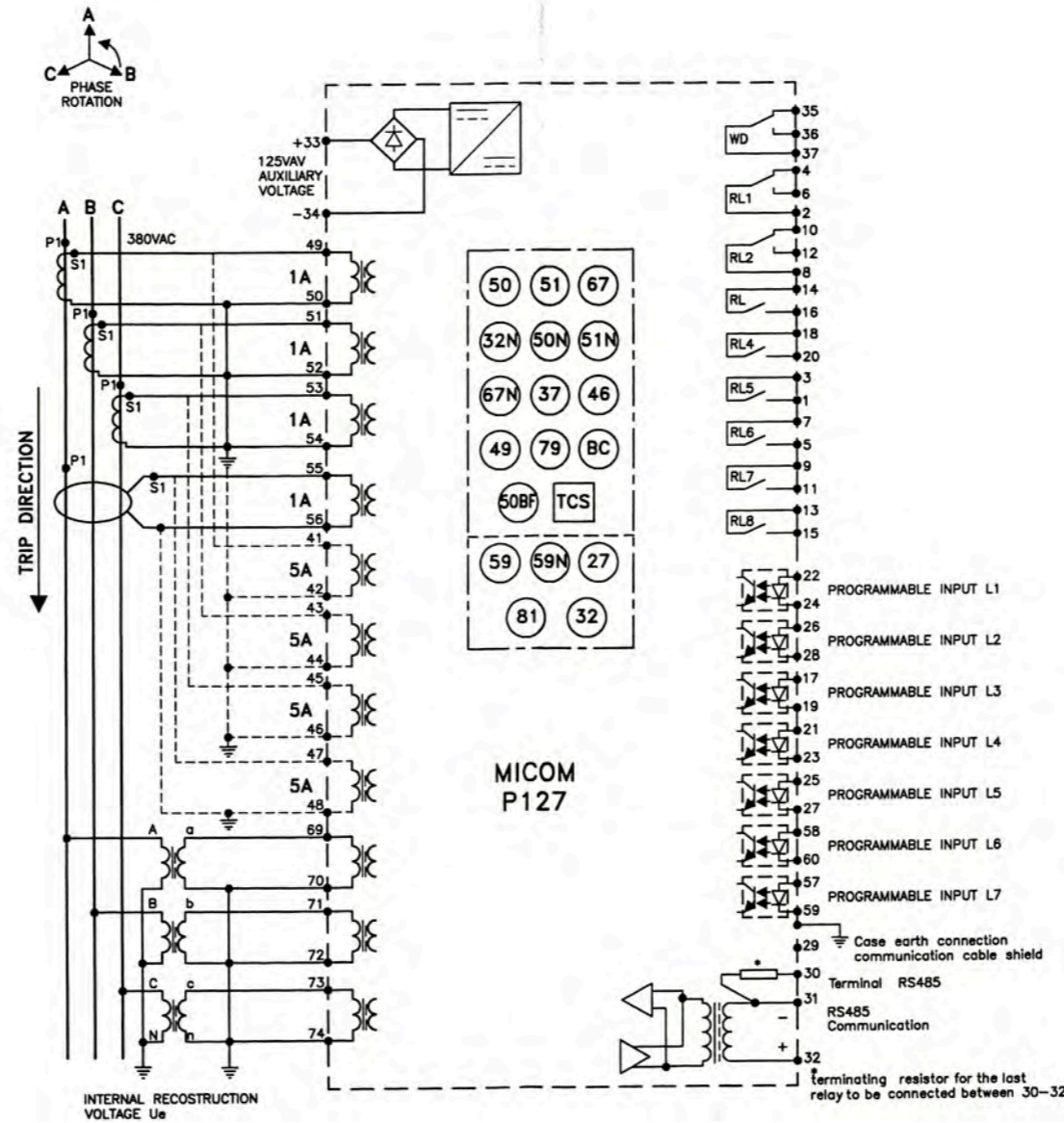
NOTE:

1. THE RELAY MICOM P127 (AREVA) IS INSTALLED IN THE PANELBOARD: DP-9000, DP-9001, DP-9002, DP-9004, DP-9005, DP-9006, DP-9007 AND DP-9009
2. THE FOLLOWING SHOWS THE FUNCTIONS AVAILABLE WITH THE MODEL

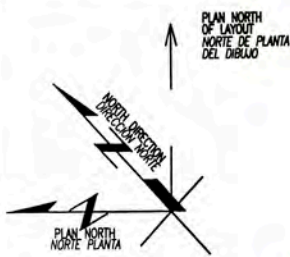
ANSI CODES	FEATURES	P-127
50/51 P/N	1 PHASE OR EARTH OVERCURRENT (AVAILABLE)	•
50/51	3 PHASE OVERCURRENT	•
50/51N	EARTH OVERCURRENT	•
67P	3 PHASE DIRECTIONAL OVERCURRENT	•
67N	EARTH FAUL DIRECTIONAL OVERCURRENT	•
51V	VOLTAGE CONTROLLED OVERCURRENT	•
37	3 PHASE UNDERCURRENT	•
46	NEGATIVE PHASE SEQUENCE OVERCURRENT	•
27/59	PHASE UNDER/OVER VOLTAGE (AND 1 or MODE)	•
59N	RESIDUAL OVER VOLTAGE	•
32	DIRECTIONAL POWER	•
32N	WATTMETRIC EARTH FAULT	•
81U/O	UNDER/OVER FREQUENCY	•
49	THERMAL OVERLOAD	•
86	OUTPUT RELAY LATCHING	•
79	AUTORECLOSE	•
50BF	CIRCUIT BREAKER FAILURE DETECTION	•
46BC	BROKEN CONDUCTOR DETECTION (2/11)	•
-	BLOCKING LOGIC	•
-	TEST OF OUTPUT RELAYS (MAINTENANCE)	•
-	CB CONTROL LOCAL/REMOTE	•
-	CIRCUIT BREAKER MAINTENANCE AND TRIP CIRCUIT SUPERVISION	•
-	COLD LOAD PICK UP	•
-	SELECTIVE RELAY SCHEME LOGIC	•
-	INRUSH BLOCKING	•
-	SWITCH ON TO FAULT (SOFT)	•
-	PHASE ROTATION	•
-	VT SUPERVISION (VTS)	•

3. THE CT RATIOS ARE AS DETAILED BELOW:

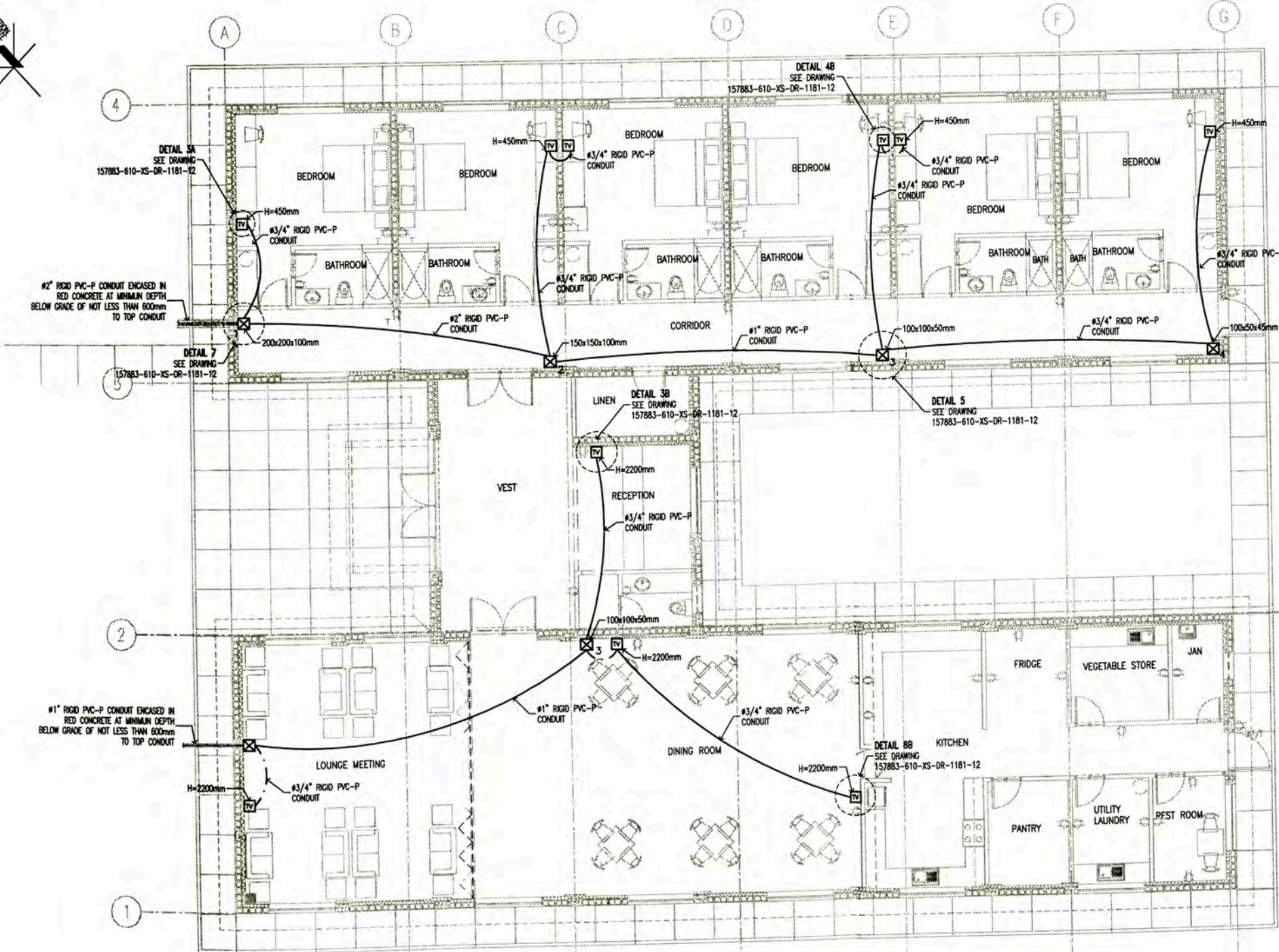
- DP-9000 CT=3200:5A
- DP-9001 CT= 400:5A
- DP-9002 CT=1000:5A
- DP-9004 CT= 400:5A
- DP-9005 CT= 400:5A
- DP-9006 CT= 800:5A
- DP-9007 CT= 250:5A
- DP-9009 CT= 250:5A



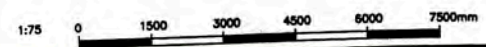
UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)				PROTECTION AND METERING DIAGRAM SS-9000 CONNECTION DIAGRAM FOR MICOM P127 RELAY			
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS				PROJECT NO: WPA DESIGNED BY: COU CHECKED BY: FTA DATE: 01/07/08			
ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LOCALIDAD: PAMPA MELCHORITA				APPROVED BY: JMG PROJECT NO: 1618 REVISION: 0			
157883-000-EL-SD-0002 KEY SINGLE LINE DIAGRAM				157883-610-XS-DR-2035-10			



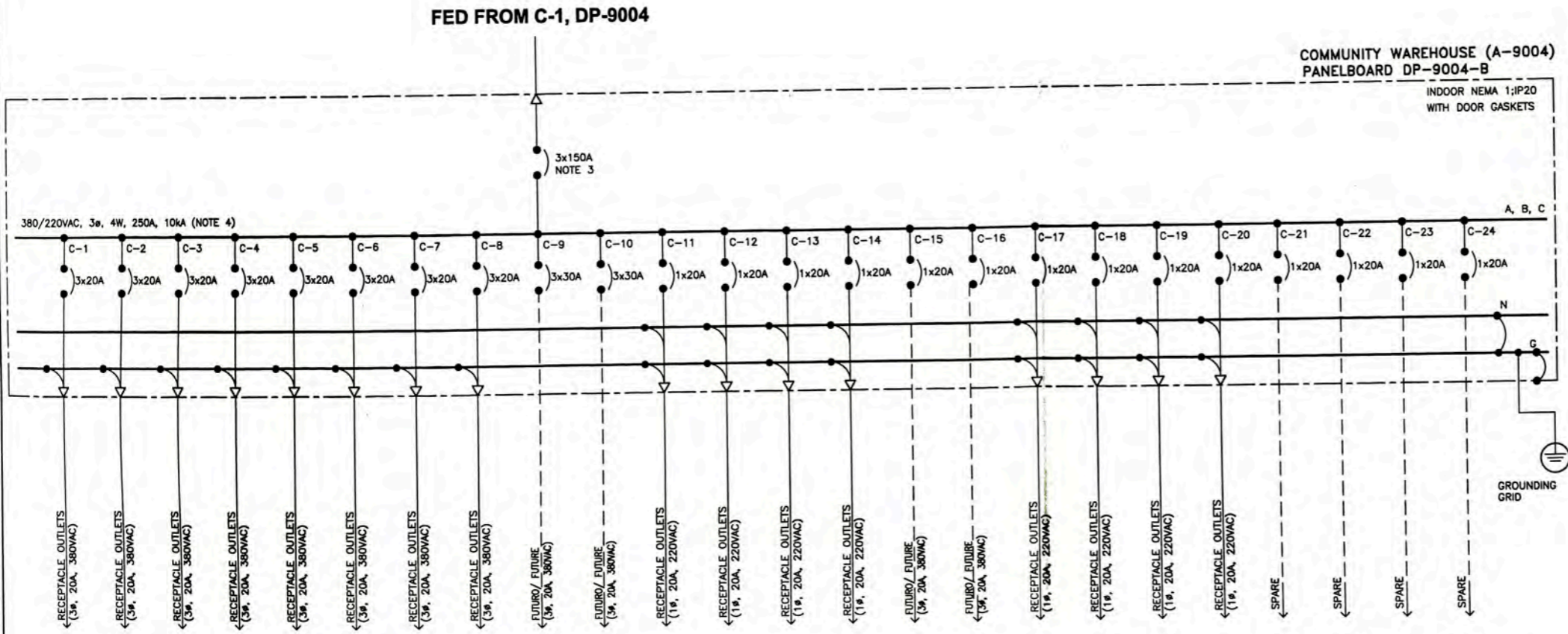
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒ ₁	CAJA DE PASO DE PVC DE 200x200x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	0.45
☒ ₂	PVC PULL BOX 200x200x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	0.45
☒ ₃	CAJA DE PASO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	TECHO
☒ ₄	PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	ROOF
☒ ₅	CAJA DE PASO DE PVC DE 100x100x50mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	TECHO
☒ ₆	PVC PULL BOX 100x100x50mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	ROOF
☒ ₇	CAJA DE PASO DE PVC DE 150x50x45mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME	CUADRADA	TECHO
☒ ₈	PVC PULL BOX 150x50x45mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	SQUARE	ROOF
TV	SALIDA PARA TV POR CABLE	RECTANGULAR	AS REQUIRED
TV	TV CABLE OUTLET	RECTANGULAR	AS REQUIRED
—	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, SOPORTADO EN ESTRUCTURA DE TECHO	---	---
—	RIGID PVC-P CONDUIT, FOR TV CABLE, SUPPORTED FROM ROOF STRUCTURE	---	---
—	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO EN DRYWALL	---	---
—	RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED DRYWALL	---	---



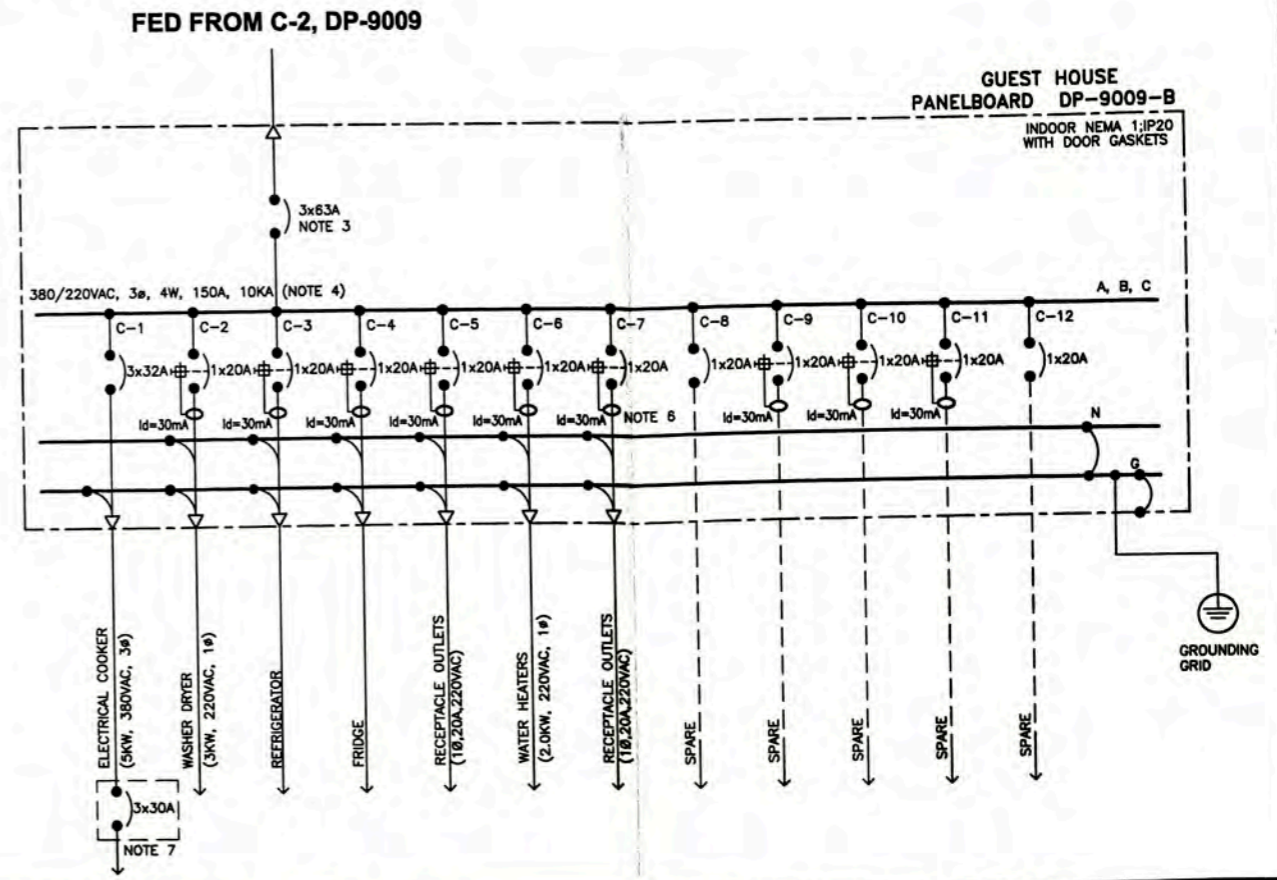
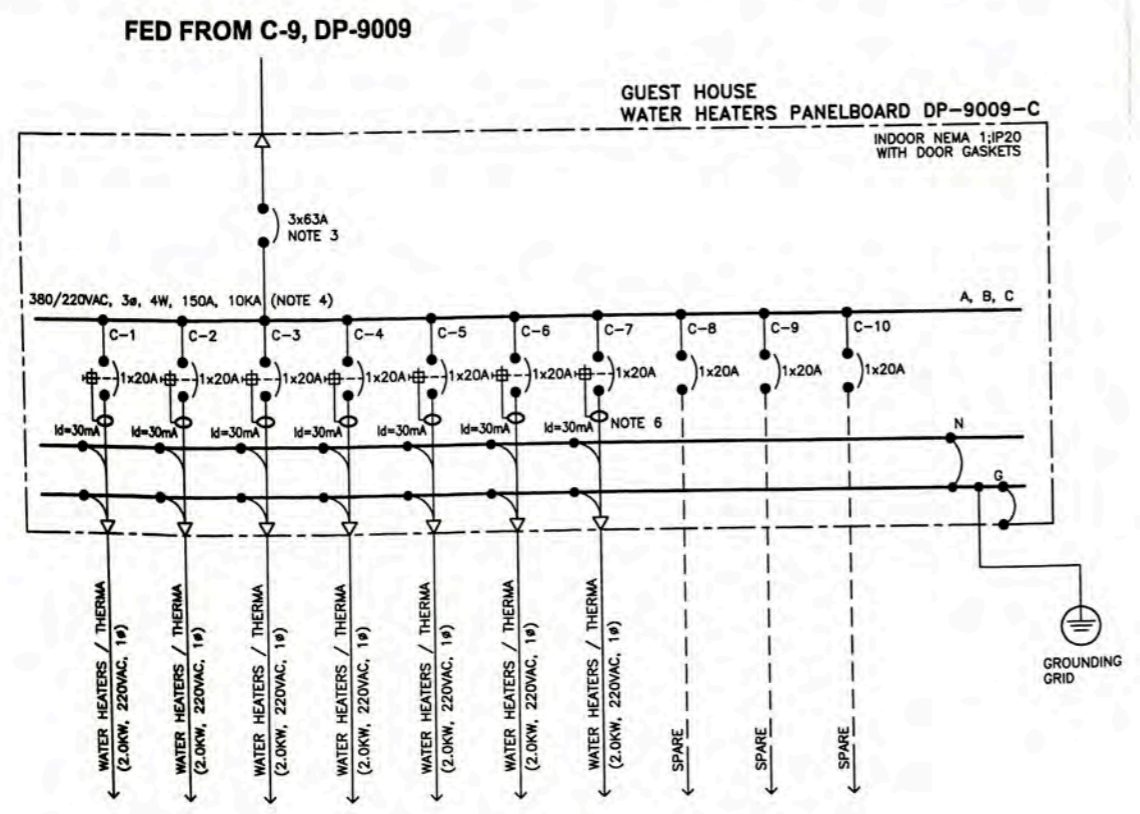
TV OUTLETS DISTRIBUTION LAYOUT
GUEST HOUSE (9009)
PLANT
 SCALE : 1/75



		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		DRAWING NO: 157883-610-XS-DR-2281-21 SHEET NO: 21	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DESIGNED BY: WPA CHECKED BY: COU		APPROVED BY: JMG PROJECT No: 1618	
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA		DATE: 01/07/09 REVISION: 0	
PROJECT NO: 157883-610-XS-DR-1181-12 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS GUEST HOUSE (9009)		PROJECT NO: 157883-610-XS-DR-2231-03 POWER AND RECEPTACLE OUTLETS LAYOUT GUEST HOUSE (9009)		PROJECT NO: 157883-610-XS-DR-2231-02 LIGHTING DISTRIBUTION LAYOUT GUEST HOUSE (9009)	
PROJECT NO: 157883-610-XS-DR-2231-01 REFERENCE DRAWINGS		PROJECT NO: 157883-610-XS-DR-2231-01 REFERENCE DRAWINGS		PROJECT NO: 157883-610-XS-DR-2231-01 REFERENCE DRAWINGS	



- GENERAL NOTES**
1. CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE AB'
 2. S 690VAC ACCORDING TO IEC 947-5-1.
 3. VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005. SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005.
 4. VER PLANO 157883-610-XS-DR-2035-10 REFER TO DRAWING 157883-610-XS-DR-2035-10 FOR PROTECTION AND METERING DIAGRAM.
 5. ALL GFCIs OR RCDs OR Ids SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR.
 6. EL INTERRUPTOR SE INSTALARA ADYACENTE AL KITCHEN THE CIRCUIT BREAKER WILL BE INSTALLED ADJACENT TO THE KITCHEN.



157883-610-XS-DR-2035-03	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9004, DP-9004-A, DP-9005 AND DP-9005-A
157883-610-XS-DR-2035-04	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9009, DP-9009-A AND DP-9020
157883-610-XS-DR-2035-02	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9001, DP-9002, 9002(B1-B7) AND 9001(B11-B18)
157883-610-XS-DR-2035-01	ELECTRICAL SINGLE LINE DIAGRAM FOR SS-9000 AND DP-9000

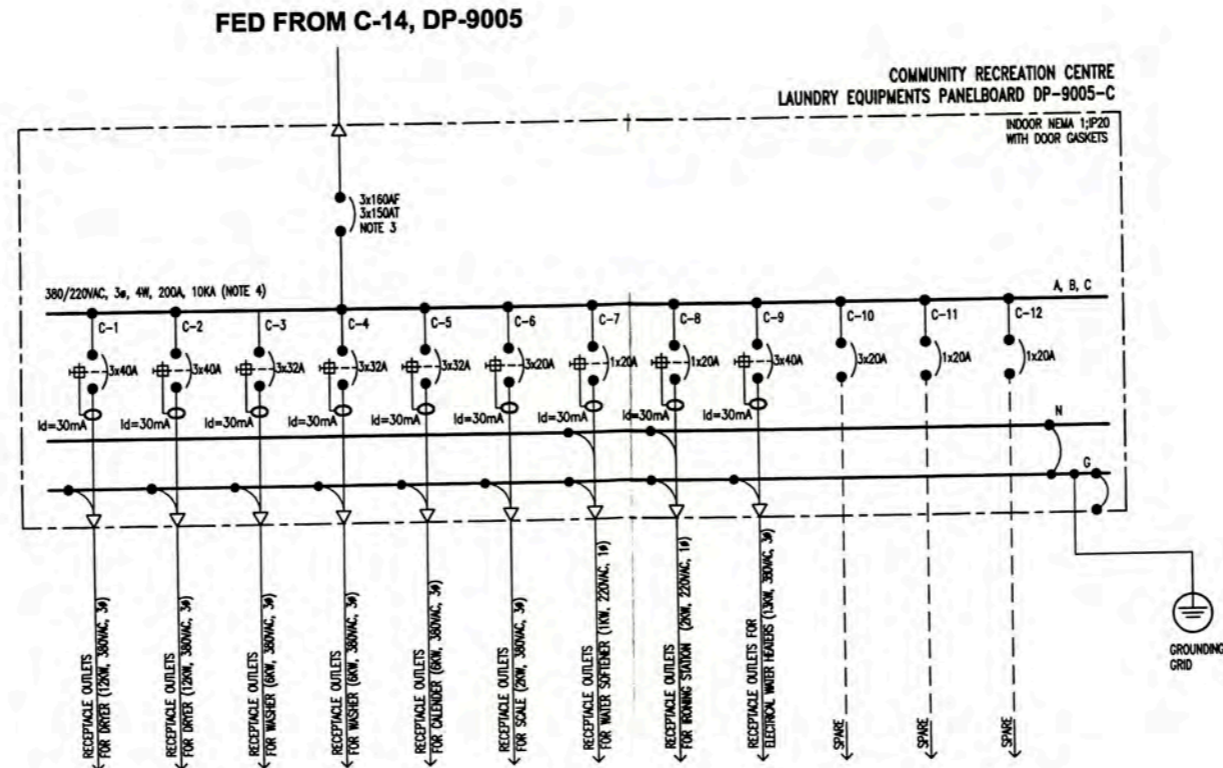
UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
PAMPA MELCHORITA

SUBSTATION SS-9000 PACKAGE
ELECTRICAL SINGLE LINE DIAGRAMS FOR
DP-9004-B, DP-9009-B AND DP-9009-C

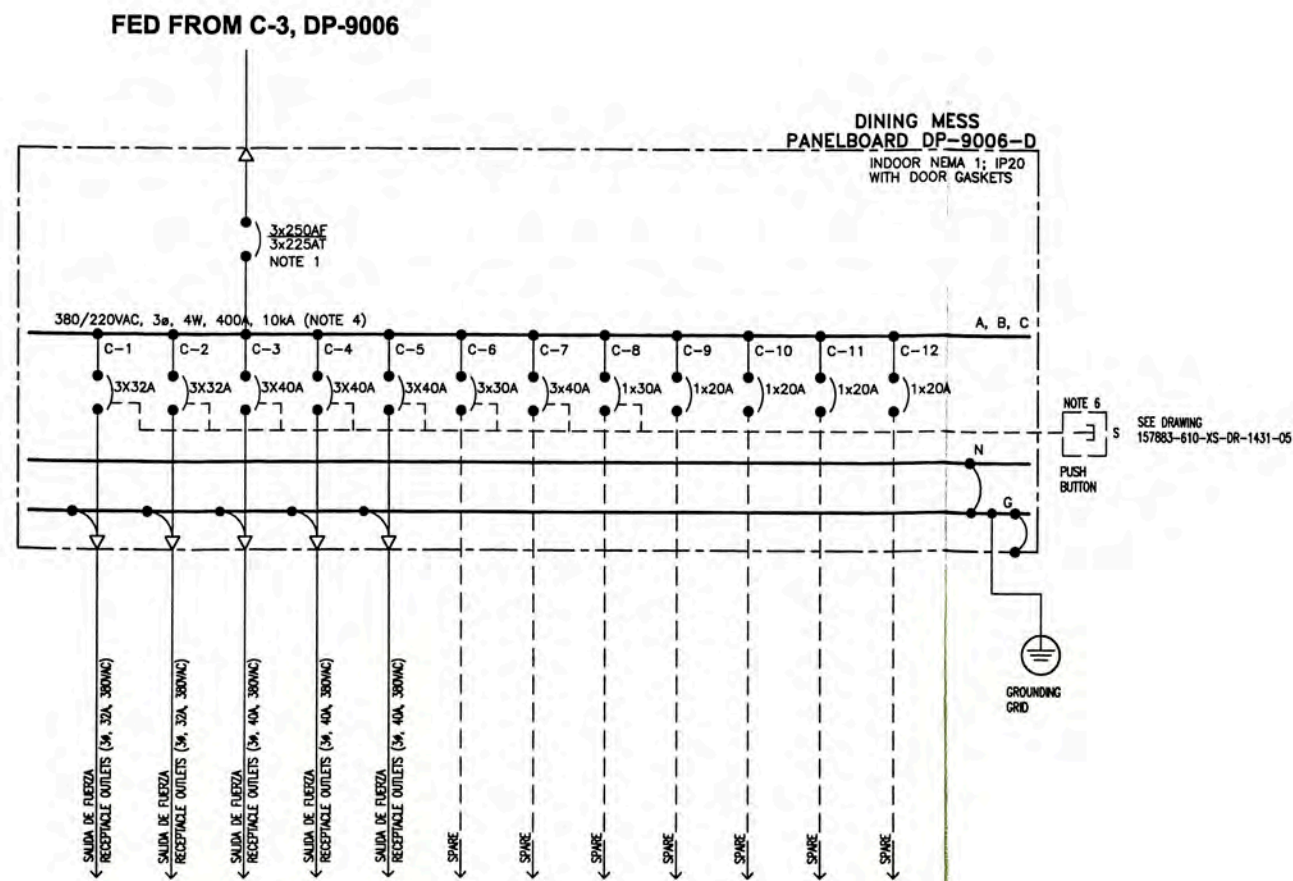
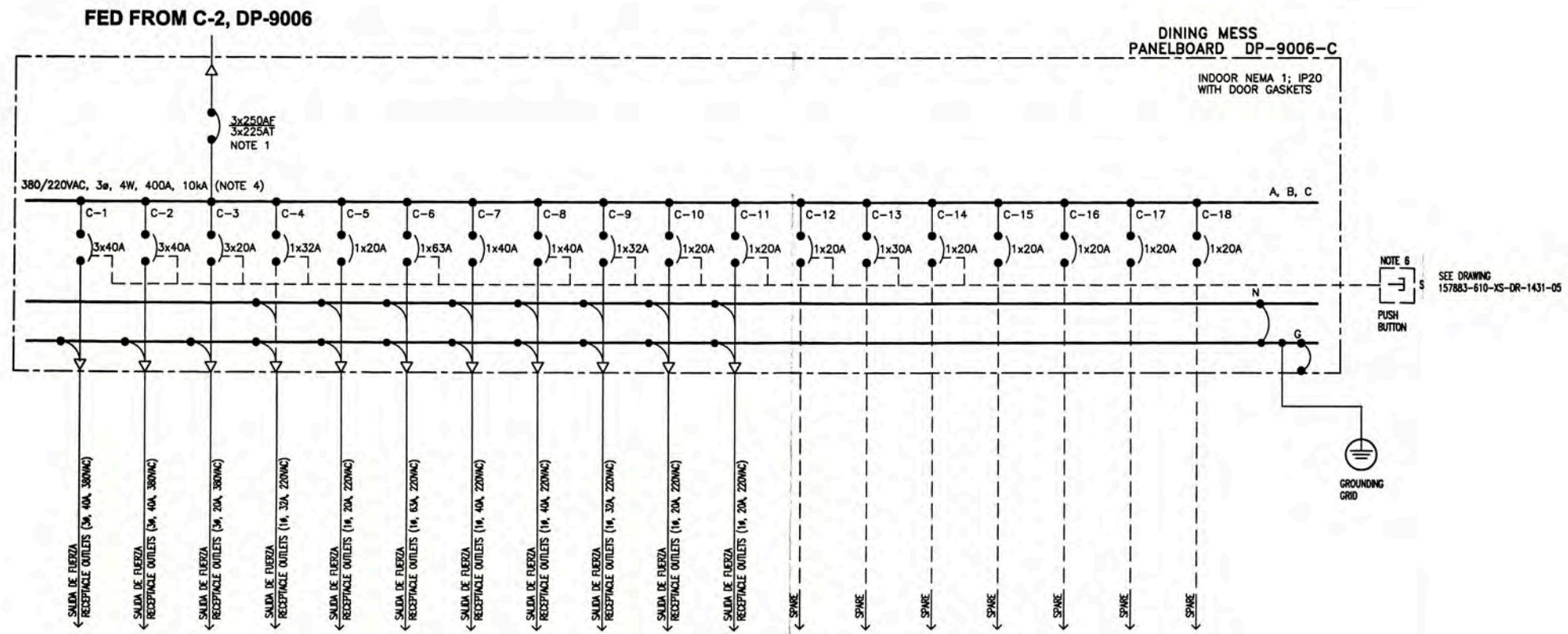
157883-610-XS-DR-2035-11



GENERAL NOTES

- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES:
3x800AF ----->AMPERES FRAME
3x800AT ----->AMPERES TRIP
- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- LA TENSION NOMINAL DEL AISLAMIENTO LI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
THE RATED INSULATION VOLTAGE LI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
- VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005 SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
- ALL GFCI OR RCBI OR IDI SHALL BE, THE PHASE CONNECTED FROM CB PHASE AND NEUTRAL CONNECTED FROM NEUTRAL BUS BAR
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001

UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PACKAGE SUBSTATION ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-C	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PROJECT No: WPA	
INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		APPROVED BY: COU	
PAMPA MELCHORITA		DATE: 15/08/09	
PROJECT No: 1618		PROJECT No: 1618	
REVISION: 0		REVISION: 0	
157883-610-XS-DR-2035-12		157883-610-XS-DR-2035-12	

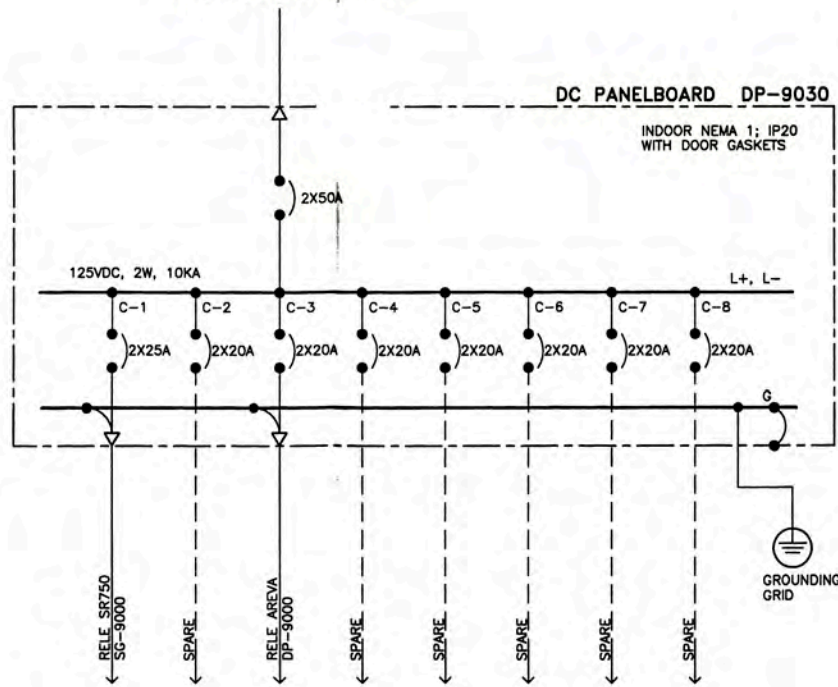


GENERAL NOTES

- CIRCUIT BREAKER, WITH CURRENT TRIP VALUE INDICATED BELOW LINE AND BREAKER FRAME SIZE ABOVE LINE FOR EXAMPLES
3X250AF -----> AMPERES FRAME
3X225AT -----> AMPERES TRIP
- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- LA TENSION NOMINAL DEL AISLAMIENTO UI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1. THE RATED INSULATION VOLTAGE UI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.
- VER CALCULOS DE "POTENCIA DE CORTO CIRCUITO" EN DOCUMENTO 157883-610-XS-CC-0005 SEE CALCULATIONS ON "SHORT CIRCUIT FAULT STUDY" IN DOCUMENT 157883-610-XS-CC-0005
- VER PLANO 157883-610-XS-DR-2035-10 REFER TO DRAWING 157883-610-XS-DR-2035-10 FOR PROTECTION AND METERING DETAILS
- CONTACTOR FED SUPPLIES FOR FIXED KITCHEN / COOKING EQUIPMENT SO AS TO INCORPORATE AN EMERGENCY PUSH BUTTON IN KITCHEN TO ISOLATE SUPPLY TO EQUIPMENT

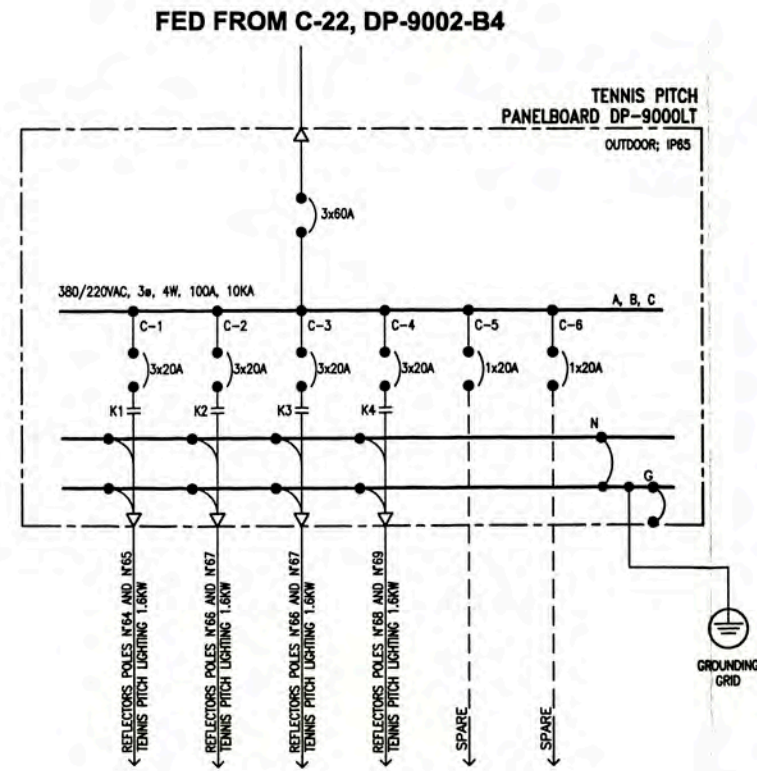
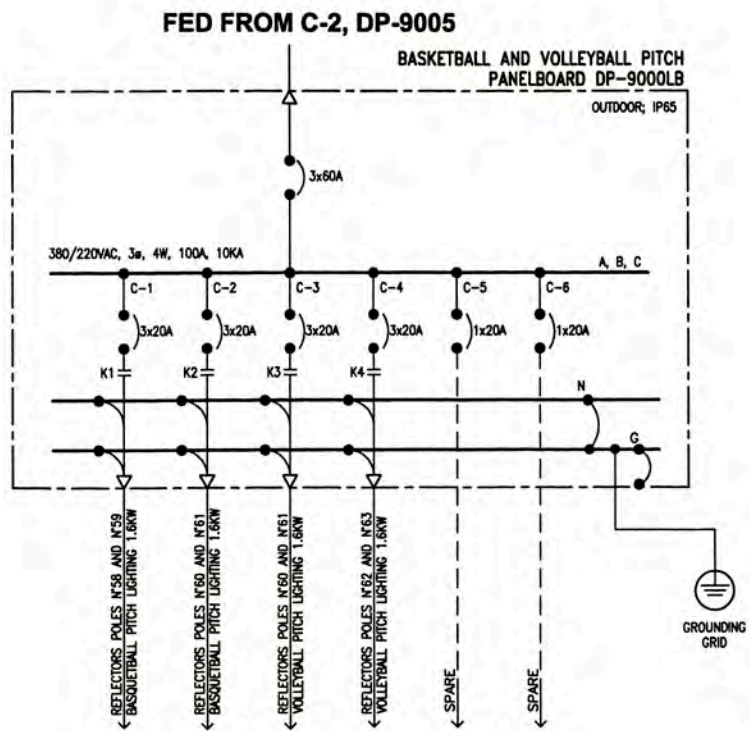
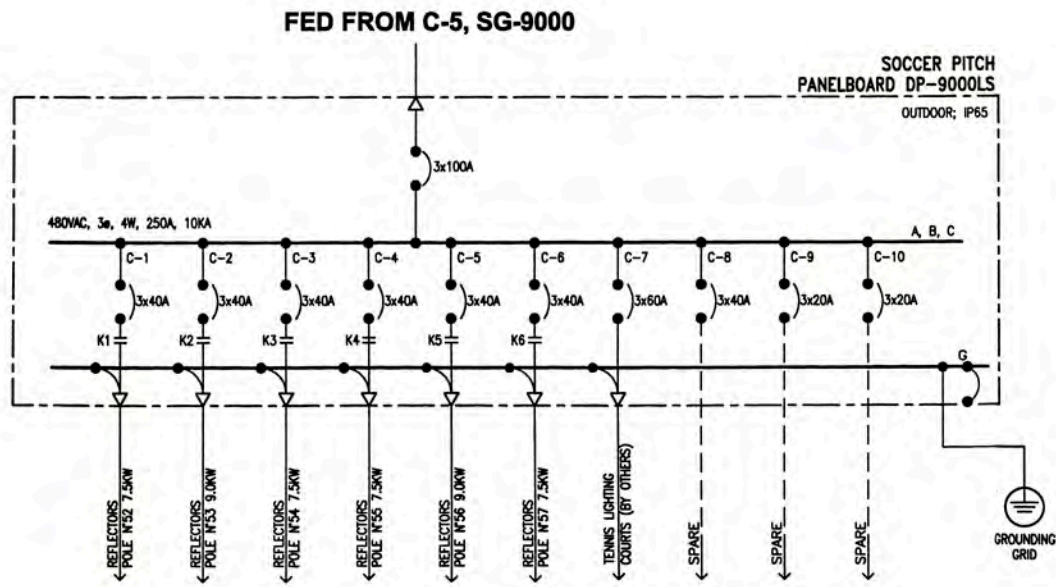
ISSUED FOR CONSTRUCTION		157883-610-XS-DR-1431-05	POWER AND RECEPTACLE OUTLETS LAYOUT DINING MESS HALL (A-9006)	<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)</p> <p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p> <p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p> <p>LOCACION PAMPA MELCHORTA</p>	PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9006-C AND DP-9006-D		
REVISION		157883-610-XS-DR-2130-03	PCB LOW VOLTAGE POWER LAYOUT		DESIGNED BY: WPA	DESIGNED BY: COU	REVISION: FTA
REVISION		157883-610-XS-DR-2130-02	PCB ELECTRICAL BLOCK DIAGRAM		DATE: INDICATED	DATE: 01/07/09	PROJECT #/REVISION: 1618
REVISION		157883-610-XS-DR-0002	DMA SHEET SWITCHBOARD		APPROVED BY: JMG	APPROVED BY: JMG	REVISION: 0
REVISION		157883-610-XS-DR-2035-04	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9006-B, DP-9006-C, DP-9006-A AND DP-9006-D		DRAWING #/PLANO #/157883-610-XS-DR-2035-13		

DC - UPS SS-9000



GENERAL NOTES
 1. SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0001

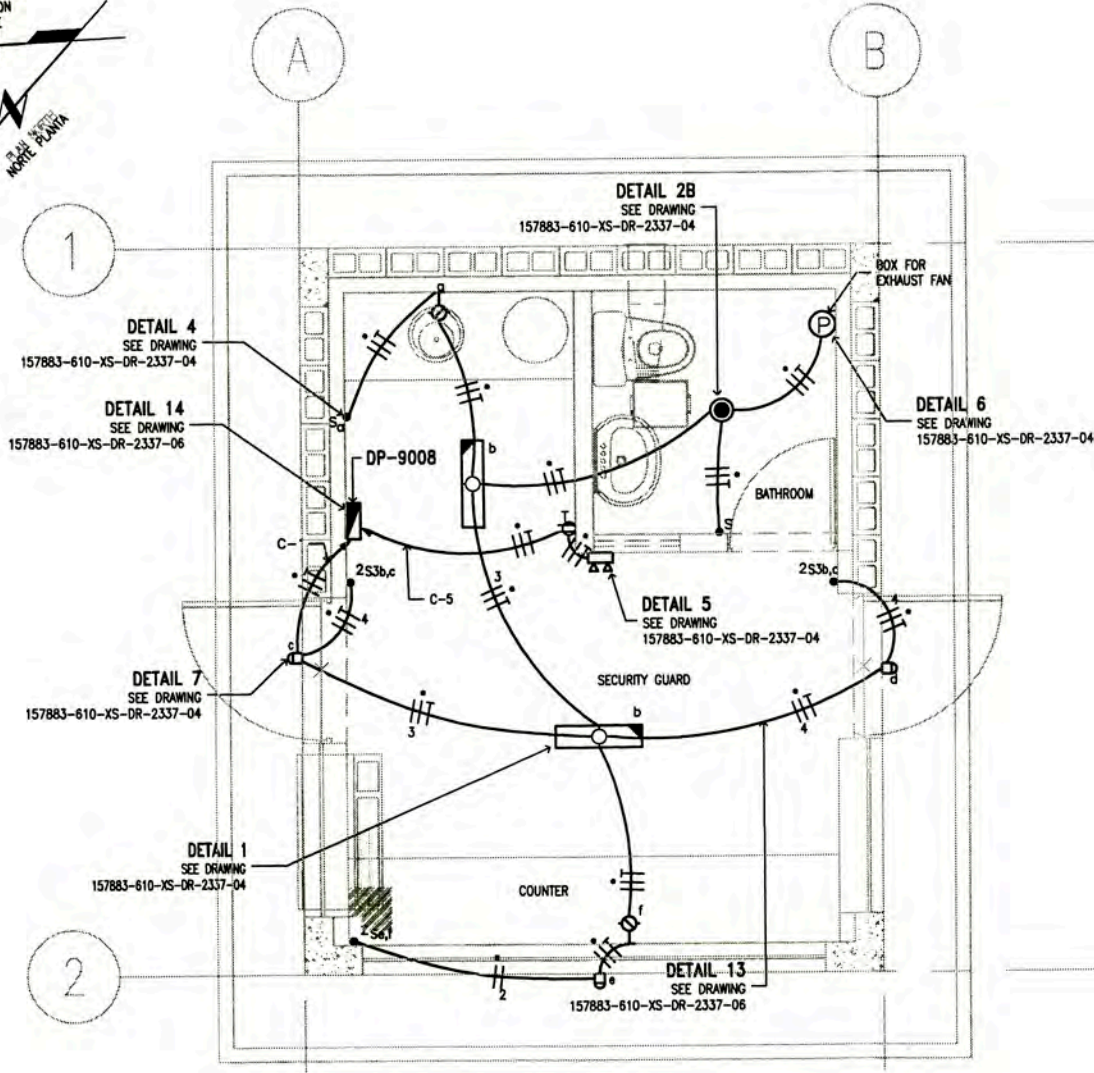
157883-610-XS-DR-2035-01 SUBSTATION SS-9000 ELECTRICAL EQUIPMENT LAYOUT		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)	DRAWING NO: PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9030			
157883-610-XS-DR-2031-03 GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT SUBSTATION SS-9000			PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DESIGNED BY: WPA CHECKED BY: COU	REVISED BY: FTA APPROVED BY: JMG	DRAWING NO: 157883-610-XS-DR-2035-14
157883-610-XS-DR-2031-02 POWER AND RECEPTACLE OUTLETS LAYOUT SUBSTATION SS-9000			SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	SCALE: INDICATED DATE: 01/07/09	PROJECT No: 1618 REVISION: 0
157883-610-XS-DR-2031-01 LIGHTING DISTRIBUTION LAYOUT SUBSTATION SS-9000		PROJECT NO: 1618 DATE: 01/07/09				



GENERAL NOTES

- SEE ELECTRICAL CABLE SCHEDULE 157883-610-XS-SH-0002
- LA TENSION NOMINAL DEL AISLAMIENTO LI DE LOS INTERRUPTORES AUTOMATICOS SERA DE 690VAC DE ACUERDO A NORMA IEC 947-5-1.
THE RATED INSULATION VOLTAGE LI OF THE CIRCUIT BREAKERS IS 690VAC ACCORDING TO IEC 947-5-1.

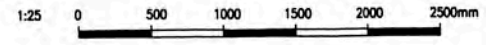
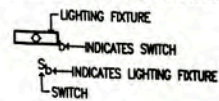
ISSUED FOR CONSTRUCTION		20/10/09		WPA		MEJ		157883-610-XS-DR-2035-01		ELECTRICAL SINGLE LINE DIAGRAMS FOR SG-9000 AND DP-9000			UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		SHEET NO: 01/07/09 PROJECT No: 1618		PACKAGE SUBSTATION SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9000LS; DP-9000LB AND DP-9000LT		SHEET NO: 157883-610-XS-DR-2035-15	
REVISION		DATE		BY		APPROVED		REVISION		DESCRIPTION			SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA		SHEET NO: 01/07/09		PROJECT No: 1618		SHEET NO: 157883-610-XS-DR-2035-15	



LIGHTING DISTRIBUTION LAYOUT
 GUARD HOUSE & GATE A-9008
 SCALE : 1/25

NOTA/NOTE:

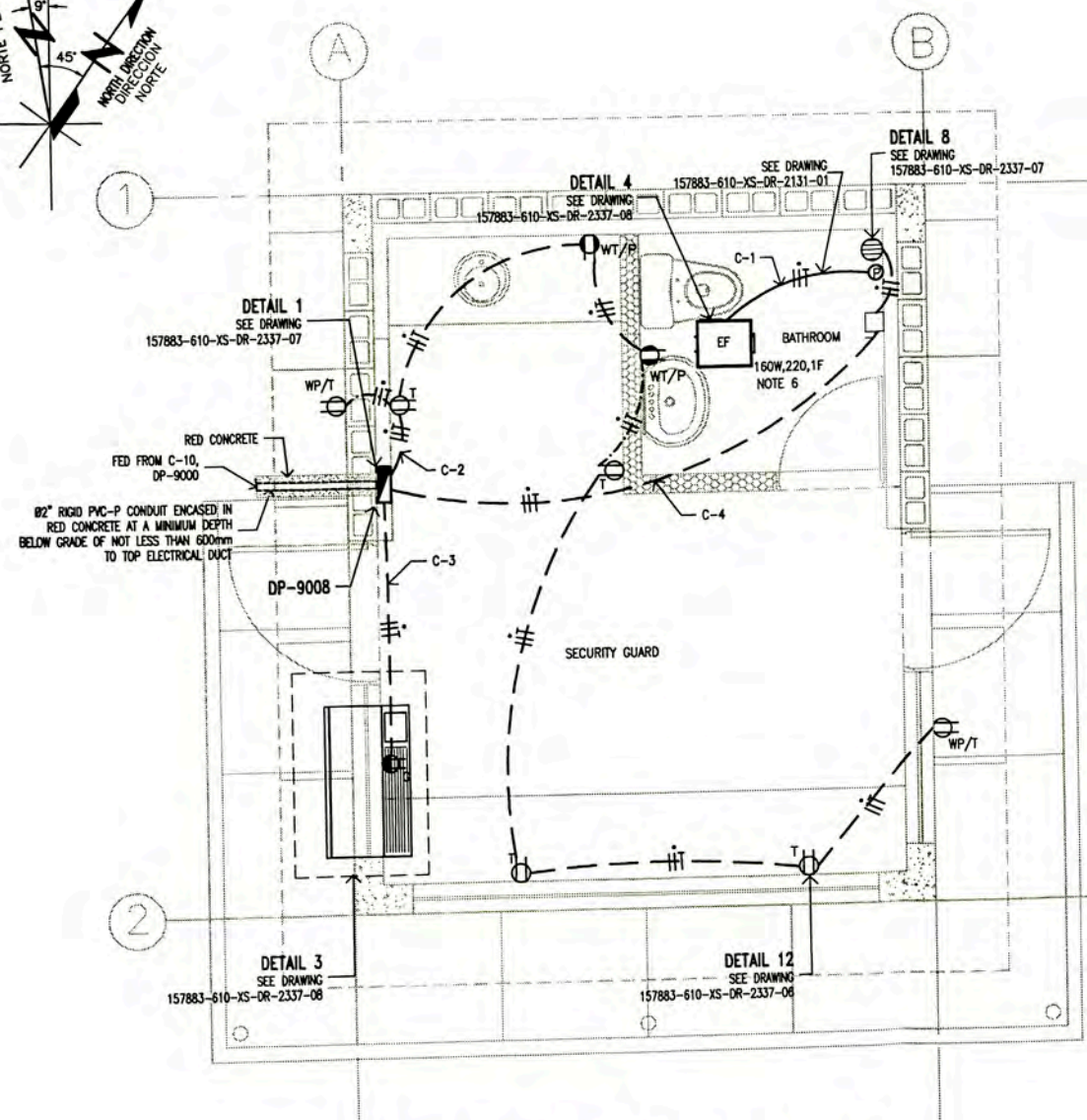
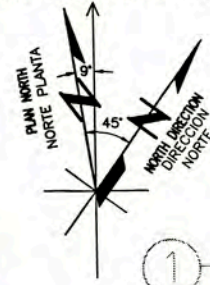
- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
 CALCULATION TO DETERMINE LIGHTING NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
- LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026
 THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026
- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0002
 THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0002
- EL LISTADO DE CARGAS ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0001
 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
- LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION LIGHTING FIXTURE WILL THIS PRESENTATION



LEYENDA / LEGEND			
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION	CAJAS / BOX(mm)	ALTURA / HEIGHT(m)
[Symbol]	ARTEFACTO RES-A/1'x4'/2TLD 36W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
[Symbol]	FLUORESCENT LIGHTING FIXTURE RES-A / 1'x4' / 2TLD 36W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILINGS
[Symbol]	LUMINARIA ALPHA SPOT H-205/2x26W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 26W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
[Symbol]	LUMINARIES ALPHA SPOT H-205/2x26W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 26W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILINGS
[Symbol]	TABLERO ELECTRICO EMPOTRADO PANELBOARD EMBEDDED.	----	1.80 BORDE SUPERIOR 1.80 TOP
[Symbol]	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 26W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA. LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	2.20m
[Symbol]	EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTAGONAL 100x40	2.20m
[Symbol]	SALIDA DE LUZ EN PARED TIPO SOCKET, CON 01 LAMPARA FLUORESCENTE COMPACTA DE 18W, 220VAC, 1Φ.	OCTOGONAL 100x40	2.20m
[Symbol]	WALL MOUNTED LIGHT FIXTURE WHIT 01 OF 18W COMPACT FLUORESCENT LAMPS, 220VAC, 1Φ.	OCTAGONAL 100x40	2.20m
[Symbol]	CAJA DE PASO DE PVC-P TIPO PESADO 100x40mm PVC-P JUNCTION BOX TYPE HEAVY 100x40mm	CUADRADA SQUARE	TECHO/PARED ROOF/WALL
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPICAS PLANAS Y REDONDAS CON TAMA A TIERRA 250V, 60HZ, 15A, EMPOTRADO EN PARED. SERIE MAGIC, MARCA BTICINO (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
[Symbol]	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MAGIC SERIES, BTICINO BRAND (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
[Symbol]	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1Φ, CON ALTO F.D.P. IP65. MODELO RSP DE JOSFEL.	---	2.20
[Symbol]	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1Φ, WITH HIGH-FDP, IP65. MODEL OF RSP JOSFEL.	---	2.20
[Symbol]	LUMINARIA DE SEÑALIZACION; CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1Φ, CON ALTO F.D.P. MODELO LE-AP/AT DE JOSFEL.	---	2.20
[Symbol]	EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1Φ, WITH HIGH FDP LE-AP/AT MODEL JOSFEL.	---	2.20
[Symbol]	CONDUCTO DE PVC-P #20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. #20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL.	---	---
[Symbol]	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A, B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
[Symbol]	02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
[Symbol]	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A, B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
[Symbol]	01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
[Symbol]	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	01 3-WAY SWITCH 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
[Symbol]	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A, B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
[Symbol]	02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30

157883-610-XS-CC-0028 157883-610-XS-DR-2035-05 157883-610-XS-DR-2337-04 157883-610-XS-DR-2131-03 157883-610-XS-DR-2131-02		ILLUMINATION LEVEL CALCULATION - GUARD HOUSE AND GATE A-9008 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9007, DP-9007-A, DP-9007-B AND DP-9008 ELECTRICAL INSTALLATION DETAILS AND NOTES POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - GUARD HOUSE AND GATE A-9008 POWER DISTRIBUTION AND SOCKET OUTLETS - GUARD HOUSE AND GATE A-9008		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS PAMPA MELCHORITA		PERMANENT COMMUNITY BUILDINGS LIGHTING DISTRIBUTION LAYOUT GUARD HOUSE & GATE A-9008		157883-610-XS-DR-2131-01	
ISSUED FOR CONSTRUCTION		DATE: 01/07/09		ENGINEER: WPA		CHECKED: COU		APPROVED: FTA		PROJECT No: 1618	

PLAN NORTH OF LAYOUT
NORTE DE PLANTA DEL DIBUJO



POWER AND RECEPTACLE OUTLETS LAYOUT
GUARD HOUSE & GATE (A-9008)
PLANT
SCALE : 1/25

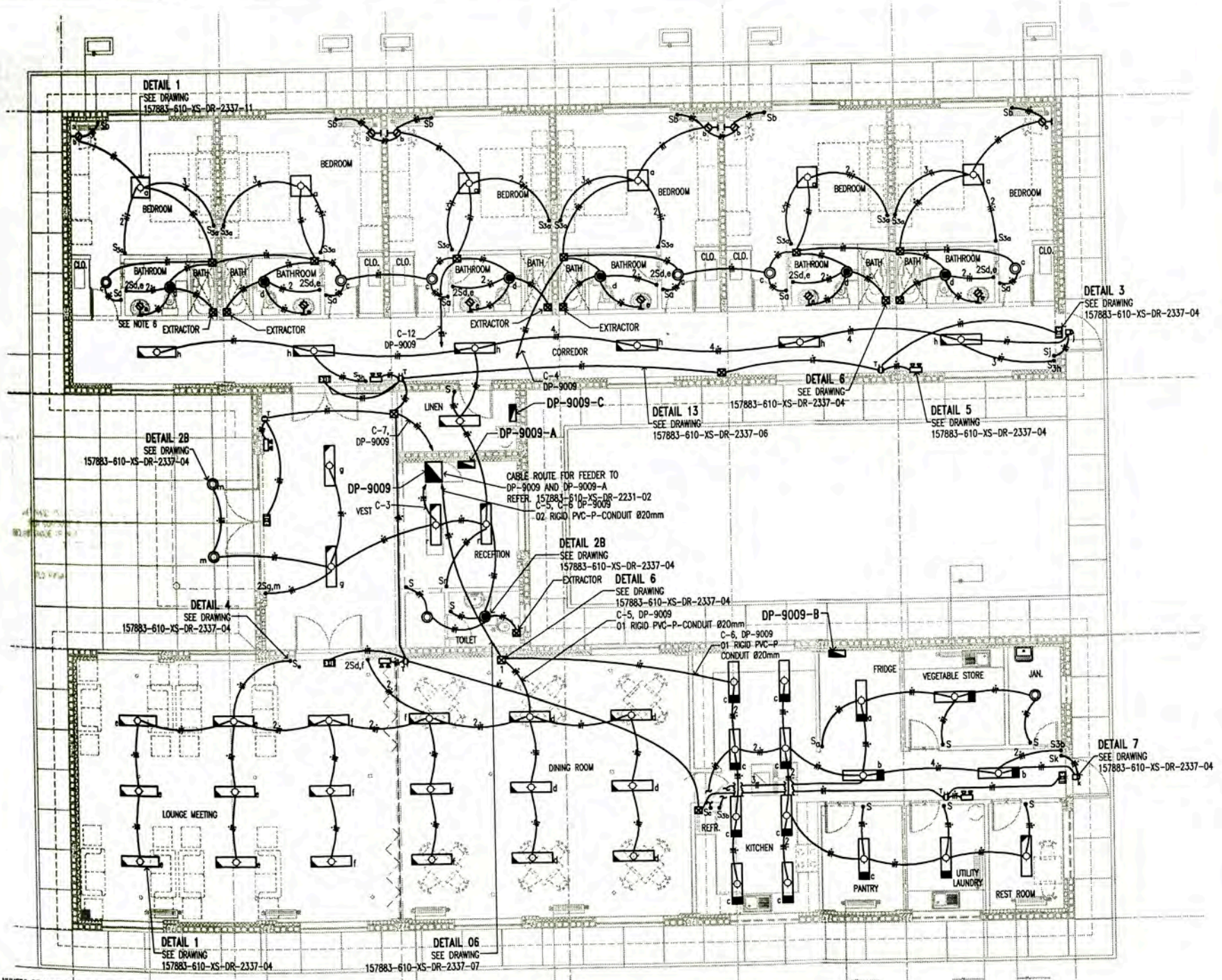
LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/ BOX(mm)	ALTURA/ HEIGHT(m)
■	PANEL ELECTRICO EMPOTRADO	-	1.80 BORDE SUPERIOR
■	PANELBOARD EMBEDDED	-	1.80 TOP
⊕	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
⊕	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
⊕	TOMACORRIENTE SIMPLE, CON TOMA A TIERRA, 250V, 60Hz, 20A, EMPOTRADO EN PARED, MODELO 6-2DR DE LEVITON.	RECTANGULAR 100x55x40	0.68 BORDE INFERIOR
⊕	SINGLE RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 20A, EMBEDDED IN WALL, MODEL 6-2DR OF LEVITON.	RECTANGULAR 100x55x40	0.68 BOTTOM
⊕	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	0.45m
⊕	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
⊕	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED. A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	1.30m
⊕	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
—	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
—	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
—	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
⊙	THERMA ELECTRICA 1.5KW, 220VAC, 1Ø	---	2.20m
⊙	WATER HEATERS 1.5KW, 220VAC, 1Ø.	---	2.20m
⊕	INTERRUPTOR DIFERENCIAL "10" DE 1x20A, 220VAC, 10KA, ADOADO A PARED	---	1.30m
⊕	GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, ATTACHED WALL.	---	1.30m
—	CONDUCTO RIGIDO DE PVC-P Ø20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED	---	---
—	RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL.	---	---
—	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO EN MURO	---	---
—	RIGID PVC-P CONDUIT, EMBEDDED WALL.	---	---
—	CONDUCTO RIGIDO DE PVC-P, EMPOTRADO DEBAJO DEL PISO.	---	---
—	RIGID PVC-P CONDUIT, EMBEDDED UNDER FLOOR.	---	---

NOTA/NOTE

- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA), AISLAMIENTO THW. THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND), INSULATION THW.
- EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010. CALCULATION TO DETERMINE RECEPTACLE OUTLET NUMBER BY CIRCUIT IS IN 157883-610-XS-CC-0010.
- LOS TOMACORRIENTES INTERNOS ESTARAN ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0028. RECEPTACLE OUTLET IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028.
- EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157880-610-XS-SH-0002. THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.
- EL ENCENDIDO Y APAGADO DEL EXTRACTOR SERA CON EL INTERRUPTOR DE ILUMINACION DEL CUARTO DE BAÑO. VER PLANO 157883-610-XS-DR-2131-01. THE ON/OFF EXHAUST FAN SHALL BE WITH LIGHTING SWITCH THE BATHROOM. SEE DRAWING 157883-610-XS-DR-2131-01.

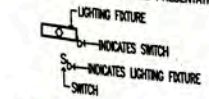


<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)</p>				<p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>PERMANENT COMMUNITY BUILDINGS POWER AND RECEPTACLE OUTLETS LAYOUT GUARD HOUSE & GATE A-9008</p>			
<p>PROYECTO: PERU LNG EXPORT PROJECT DISEÑO: PERMANENT COMMUNITY BUILDINGS</p>				<p>DISEÑO: WPA DISEÑO: COU DISEÑO: FTA DISEÑO: JMG DISEÑO: JMG</p>				<p>PROYECTO: PERU LNG EXPORT PROJECT PROYECTO: 1618 REVISION: 0</p>			
<p>ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>				<p>LOCALIDAD: PAMPA MELCHORITA</p>				<p>FECHA: 01/07/09</p>			
<p>157883-610-XS-DR-2035-05 ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9007, DP-9007-A, DP-9007-B AND DP-9008</p>				<p>157883-610-XS-DR-2337-06 PCB ELECTRICAL INSTALLATIONS DETAILS AND NOTES - SHEET 2 OF 2</p>				<p>157883-610-XS-DR-2231-01 LIGHTING DISTRIBUTION LAYOUT GUARD HOUSE & GATE A-9008</p>			

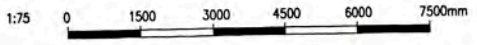


LIGHTING DISTRIBUTION LAYOUT
GUEST HOUSE A-9009
SCALE : 1/75

- NOTAS/NOTES:**
- EL CALCULO PARA EL NUMERO DE LUMINARIAS POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
CALCULATION TO DETERMINE LIGHTING FIXTURE NUMBER BY CIRCUIT IN 157883-610-XS-CC-0010
 - LAS LUMINARIAS ESTAN DE ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-0026
THE LIGHTING FIXTURE IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0026
 - EL LISTADO DE CABLES ELECTRICOS Y EL DIAMETRO DE LOS CONDUCTOS RIGIDOS DE PVC-P SE MUESTRA EN 157883-610-XS-SH-0003
THE ELECTRICAL CABLE SCHEDULE AND RIGID PVC-P CONDUIT IS SHOW IN 157883-610-XS-SH-0003
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - LOS EQUIPOS DE ILUMINACION TENDRAN LA SIGUIENTE PRESENTACION
LIGHTING FIXTURE WILL THIS PRESENTATION



6. THE EQUIPMENT LIGHTING FOR THE BATHROOM MIRROR WILL BE THE LUMINAIRE BLP WITH 01 COMPACT FLUORESCENT LAMP OF 18W.
EL EQUIPO DE ILUMINACION PARA EL ESPEJO DEL BAÑO SERA LA LUMINARIA BLP CON 01 LAMPARA FLUORESCENTE COMPACTA DE 18W



	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 150x150x100mm	CUADRADA	TECHO
	PVC JUNCTION BOX TYPE HEAVY 150x150x100mm	SQUARE	ROOF
	CAJA DE PASO DE PVC TIPO PESADO 100x60x60mm	RECTANGULAR	TECHO/PARED
	PVC JUNCTION BOX TYPE HEAVY 100x60x60mm	RECTANGULAR	ROOF/WALL

LEYENDA / LEGEND			
SIMBOLO/SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS/BOX(mm)	ALTURA/HEIGHT(m)
	ARTEFACTO RES-A/2'x2'/3TLD 18 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 03 LAMPARAS FLUORESCENTES, RECTAS TLD 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE RES-A / 2'x2' / 3TLD 18 W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 03 FLUORESCENT LAMPS, RECTUM TLD 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILING
	ARTEFACTO RES-A/1'x4'/2TLD 36 W/EE DE JOSFEL, PARA EMPOTRAR EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE RES-A / 1'x4' / 2TLD 36 W / EE OF JOSFEL, TO RECESSED FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILING
	ARTEFACTO AHR-Z/2TLD 36W/E, DE JOSFEL, ADOSADO EN FALSO CIELO RASO, CON 02 LAMPARAS FLUORESCENTES, RECTAS TLD 36W, EQUIPADO CON BALASTO ELECTRONICO. IP65. 220VAC	OCTOGONAL 100x40	CIELO RASO
	FLUORESCENT LIGHTING FIXTURE AHR-Z/2TLD 36W / E; OF JOSFEL, ATTACHED IN FALSE CEILING, WITH 02 FLUORESCENT LAMPS, RECTUM TLD 36W, EQUIPPED WITH ELECTRONIC BALLASTS. IP65. 220VAC	OCTAGONAL 100x40	CEILING
	LUMINARIA ALPHA SPOT H-205/2x18W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 18W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	LUMINARIES ALPHA SPOT H-205/2x18W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 18W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILING
	LUMINARIA ALPHA SPOT H-205/2x26W TC-D/EE CON VIDRIO, DE JOSFEL Y CON 02 LAMPARAS FLUORESCENTES, COMPACTAS TC-D 26W, EQUIPADO CON BALASTO ELECTRONICO. 220VAC	OCTOGONAL 100x40	CIELO RASO
	LUMINARIES ALPHA SPOT H-205/2x26W TC-D/EE WITH GLASS, JOSFEL AND WITH 02 FLUORESCENT LAMPS, COMPACT TC-D 26W, EQUIPPED WITH ELECTRONIC BALLASTS. 220VAC	OCTAGONAL 100x40	CEILING
	LUMINARIA TIPO WALLPACK, CON 01 LAMPARA DE VAPOR DE SODIO DE 70W, 220VAC, 1Ø, CON ALTO F.D.P., IP65, MODELO RSP DE JOSFEL	---	2.20
	WALL MOUNTED LIGHT FIXTURE WALLPACK, WITH 01 SODIUM VAPOR LAMPS OF 70W, 220VAC, 1Ø, WITH HIGH-FDP, IP65, MODEL OF RSP JOSFEL	---	2.20
	LUMINARIA DE EMERGENCIA LE-AP/AT/2TC-D 26W DE JOSFEL, PARA ADOSAR A PARED, CON 02 LAMPARAS FLUORESCENTES COMPACTAS DE 26W, CON KIT DE EMERGENCIA DE AUTONOMIA 1 HORA. LIBRE DE MANTENIMIENTO. 220VAC	OCTOGONAL 100x40	2.20m
	EMERGENCY LIGHTING FIXTURE LE-AP/AT/2TC-D 26W OF JOSFEL, TO ATTACHED TO WALL, WITH 02 COMPACT FLUORESCENT LAMPS OF 26W, WITH KIT EMERGENCY AUTONOMY 1 HOUR MAINTENANCE-FREE. 220VAC	OCTAGONAL 100x40	2.20m
	LUMINARIA DE SEÑALIZACION; CON 01 LAMPARA FLUORESCENTE DE 26W, 220VAC, 1Ø, CON ALTO F.D.P., MODELO LE-AP/AT DE JOSFEL	---	2.20
	EXIT SIGN LIGHTING FIXTURE 26W, 220VAC, 1Ø, WITH HIGH FDP LE-AP/AT MODEL JOSFEL	---	2.20
	LUMINARIA BLP-262/1TC-D1B/OPALINO/BL PARA ADOSAR EN PARED CON DIFUSOR DE ACRILICO OPALINO BLANCO, EQUIPO CON BALASTO ELECTRONICO, CON 01 LAMPARA FLUORESCENTE COMPACTA 18W, 220VAC, MARCA JOSFEL	OCTOGONAL 100x40	2.20m
	LIGHTING FIXTURE BLP-262/1TC-D1B/OPALINO/BL ATTACHED TO WALL WITH ACRYLIC OPALINE DIFUSOR WHITE TEAM, WITH ELECTRONIC BALLAST WITH 01 COMPACT FLUORESCENT LAMP OF 18W, 220VAC, JOSFEL	OCTAGONAL 100x40	2.20m
	TABLERO ELECTRICO EMPOTRADO	---	1.80 BORDE SUPERIOR
	PANELBOARD EMBEDDED.	---	1.80 TOP
	TOMACORRIENTE DUPLEX, BIPOLAR PARA ESPIGAS PLANAS Y REDONDAS CON TOMA A TIERRA, 250V, 60HZ, 15A, EMPOTRADO EN PARED, SERIE MAGIC, MARCA BITICINO (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
	DUPLEX RECEPTACLE OUTLET, WITH GROUNDING, 250V, 60HZ, 15A, EMBEDDED ON WALL, MAGIC SERIES, BITICINO BRAND (IEC-60669-1, IEC-60884-1, IEC-60529, NPT 370.054).	RECTANGULAR 100x55x40	2.20
	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
	CONDUCTO DE PVC-P Ø20mm, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED.	---	---
	Ø20mm RIGID PVC-P CONDUIT, SUPPORTED FROM ROOF STRUCTURE OR EMBEDDED WALL	---	---
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	SINGLE POLE SWITCH, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	SINGLE POLE SWITCH , 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	02 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
	02 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
	01 INTERRUPTOR CONMUTACION Y 01 INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
	01 3-WAY SWITCH AND 01 SINGLE POLE SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30
	01 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	01 3-WAY SWITCH 16A, 250VAC, 60HZ.	RECTANGULAR 100x55x40	1.30
	02 INTERRUPTOR CONMUTACION, 16A, 250VAC, 60HZ. A,B INDICA EL CONTROL SOBRE LOS ARTEFACTOS IDENTIFICADOS CON A Y B.	RECTANGULAR 100x55x40	1.30
	02 3-WAY SWITCH 16A, 250VAC, 60HZ. A, B INDICATES THE CONTROL DEVICES ON THE IDENTIFIED WITH A AND B.	RECTANGULAR 100x55x40	1.30

157883-610-XS-CC-0016	ILLUMINATION LEVEL CALCULATION - GUEST HOUSE A-9009
157883-610-XS-DR-2337-11	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES
157883-610-XS-DR-2337-07	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES
157883-610-XS-DR-2337-06	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2
157883-610-XS-DR-2337-04	PCB ELECTRICAL INSTALLATION DETAILS AND NOTES
157883-610-XS-DR-2035-08	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9009, DP-9009-A AND DP-9020
157883-610-XS-DR-2231-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS - GUEST HOUSE A-9009



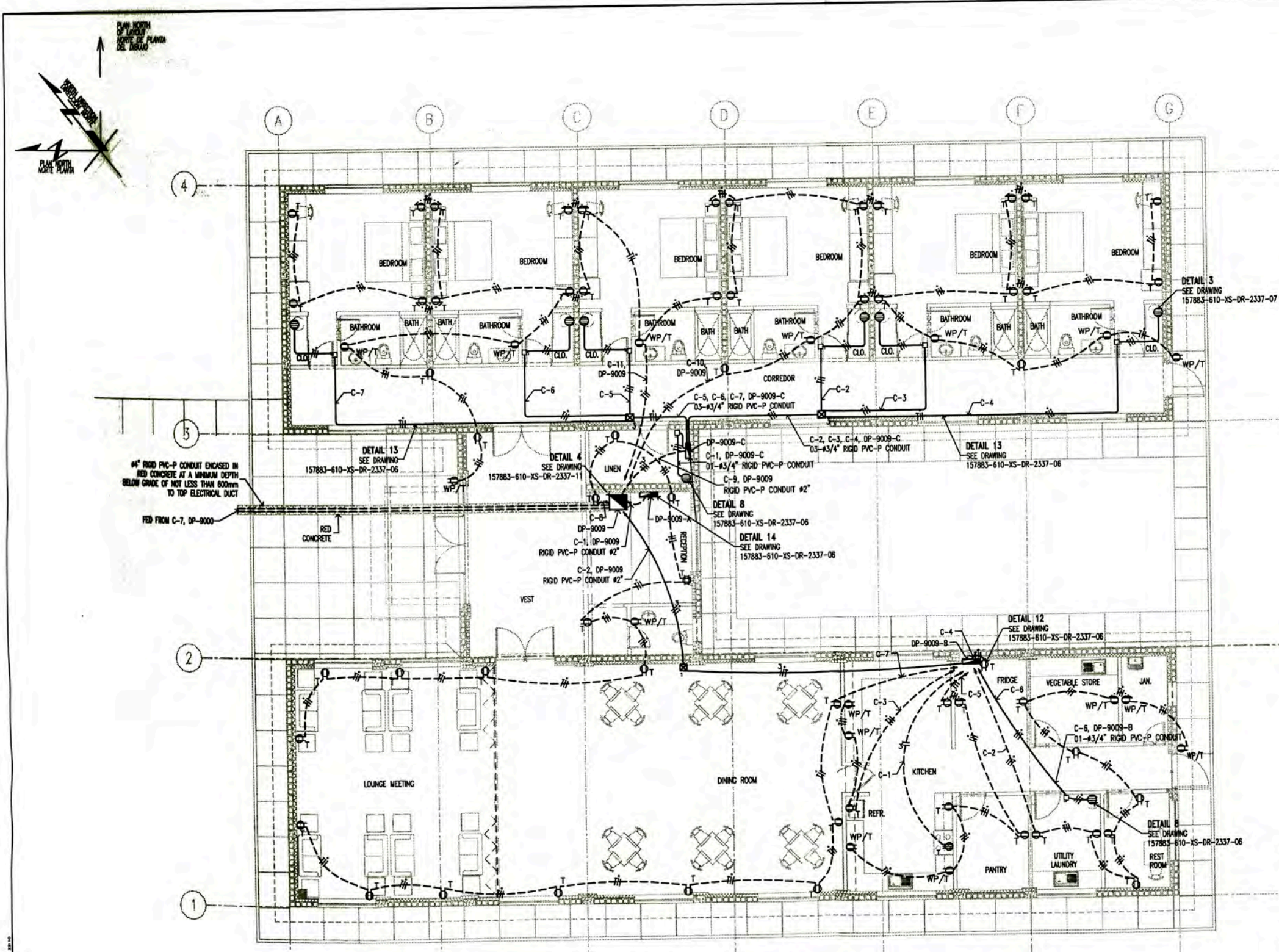
UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

PROYECTO: PERU LNG EXPORT PROJECT
SPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
LUGAR DE UBICACION: PAMPA MELCHORITA

DRAWING NO: WPA	DESIGNED BY: COU	REVISADO BY: FTA	APROBADO BY: JMG	DRAWING NO: 157883-610-XS-DR-2231-01
SCALE: INDICATED	DATE: 01/07/09	PROJECT NO: 1618	REVISION: 0	

PERMANENT COMMUNITY BUILDINGS
LIGHTING DISTRIBUTION LAYOUT
GUEST HOUSE A-9009



POWER AND RECEPTACLE OUTLETS LAYOUT
GUEST HOUSE (9009)
PLANT
 SCALE : 1/75

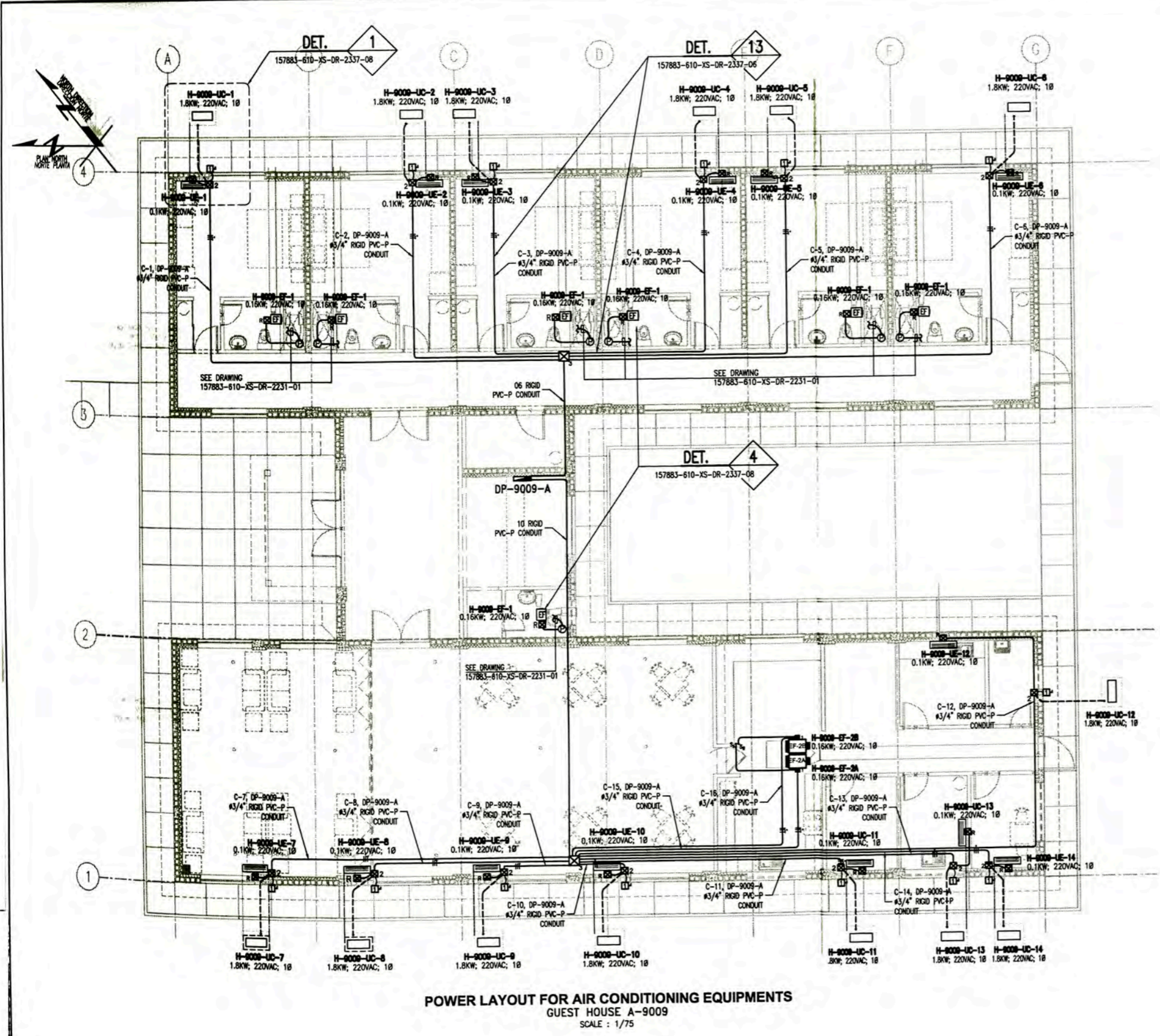
LEYENDA / LEGEND			
SYMBOL/SYMBOL	DESCRIPCION/DESCRIPTION	CABLE/TYPE(mm)	ALUMEN/HEIGHT(m)
[Symbol]	TABLERO ELECTRICO EMPOTRADO	---	1.80m BORDE SUPERIOR
[Symbol]	PANELBOARD EMBEDDED	---	1.80m TOP
[Symbol]	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 150x150x100mm	CUADRADA	TECHO
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 150x150x100mm	SQUARE	ROOF
[Symbol]	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 100x100x50mm	CUADRADA	TECHO
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 100x100x50mm	SQUARE	ROOF
[Symbol]	CAJA DE PASO CUADRADA DE PVC TIPO PESADO 200x200x150mm	CUADRADA	TECHO
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 200x200x150mm	SQUARE	ROOF
[Symbol]	CAJA DE PASO RECTANGULAR PVC 100x50x50mm EMPOTRADA A PARED.	RECTANGULAR	0.45m
[Symbol]	PVC JUNCTION BOX TYPE HEAVY 100x50x50mm.	RECTANGULAR	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	1.30m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.30m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	2.20m
[Symbol]	DUPLEX RECEPTACLE OUTLET WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	2.20m
[Symbol]	SALIDA DE FUERZA 3ø, 3P+T, 30A, 380 VAC 60 Hz, GRADO DE PROTECCION IP44, MODELO TEMPRA, MARCA LEGRAND, INCLUYE CAJA Y TAPA (EC-80309-1, EC-80309-2, EC-80529).	CUADRADA 84x84x43	0.45m
[Symbol]	RECEPTACLE 3P+0, 30A, 380 VAC, 60 Hz, PROTECTION IP44, MODEL TEMPRA, BRAND LEGRAND, INCLUDES BOX AND COVER (EC-80309-1, EC-80309-2, EC-80529).	SQUARE 84x84x43	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED, A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	0.45m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	TOMACORRIENTE DUPLEX, BIPOLAR CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED, A PRUEBA DE AGUA.	RECTANGULAR 100x55x40	1.20m
[Symbol]	DUPLEX RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED WALL.	RECTANGULAR 100x55x40	1.20m
[Symbol]	TOMACORRIENTE CUADRUPLE CON TOMA A TIERRA, 250V, 60Hz, 15A, EMPOTRADO EN PARED.	RECTANGULAR 100x55x40	0.45m
[Symbol]	QUADRUPLER RECEPTACLE OUTLET WEATHERPROOF WITH GROUNDING, 250V, 60Hz, 15A, EMBEDDED ON WALL.	RECTANGULAR 100x55x40	0.45m
[Symbol]	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
[Symbol]	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
[Symbol]	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
[Symbol]	TERMINAL ELECTRICA 2.0KW, 220VAC, 1ø	---	2.20m
[Symbol]	WATER HEATERS 2.0KW, 220VAC, 1ø.	---	2.20m
[Symbol]	INTERRUPTOR DIFERENCIAL "D" DE 1x20A, 220VAC, 10KA, ADOSADO A PARED MODELO F202AC-25/0.03, MARCA ABB	---	1.30m
[Symbol]	GROUND FAULT CIRCUIT INTERRUPTOR "GFCI" 1x20A, 220VAC, 10KA, ATTACHED WALL MODELO F202AC-25/0.03, BRAND ABB	---	1.30m
[Symbol]	CONDUCTO DE PVC-P #20mm, EMPOTRADO EN TECHO	---	---
[Symbol]	#20mm RIGID PVC-P CONDUIT, EMBEDDED ROOF	---	---
[Symbol]	CONDUCTO DE PVC-P #20mm, EMPOTRADO EN PARED	---	---
[Symbol]	#20mm RIGID PVC-P CONDUIT, EMBEDDED WALL	---	---
[Symbol]	CONDUCTO DE PVC-P #20mm, EMPOTRADO DEBAJO DEL PISO.	---	---
[Symbol]	#20mm RIGID PVC-P CONDUIT, EMBEDDED BELOW FLOOR.	---	---

NOTA/NOTE

- LOS CIRCUITOS DE TOMACORRIENTES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA), PARA LOS CALENTADORES TENDRAN UN CALIBRE MINIMO DE 4mm² (FASE), 4mm² (NEUTRO) Y 4mm² (TIERRA).
 THE CIRCUIT RECEPTACLE OUTLETS SHALL HAVE A SIZE MINIMUM OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND), FOR WATER HEATERS WILL HAVE A SIZE OF 4mm² (PHASE), 4mm² (NEUTRAL) AND 4mm² (GROUND).
- EL CALCULO PARA EL NUMERO DE TOMACORRIENTES POR CIRCUITO SE MUESTRA EN 157883-610-XS-CC-0010
 CALCULATION FOR THE NUMBER OF OUTLETS PER CIRCUIT IS SHOWN IN 157883-610-XS-CC-0010
- LOS TOMACORRIENTES ESTARAN ACUERDO CON LA HOJA TECNICA 157883-610-XS-DS-002B. RECEPTACLE OUTLET IN ACCORDING TO DATA SHEET 157883-610-XS-DS-002B.
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157880-610-XS-SH-0002
 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001.
 THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS POWER AND RECEPTACLE OUTLETS LAYOUT GUEST HOUSE A-9009	
PROJECT PROTECTOR: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING BY: WPA SCALE: 1/75	DESIGNED BY: COU DATE: 01/07/09	CHECKED BY: FTA PROJECT NO: 1618
SPECIALITY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	APPROVED BY: JMG REVISIONS: 0	DRAWING NO: 157883-610-XS-DR-2231-02

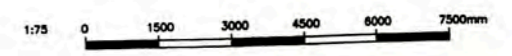


POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS
 GUEST HOUSE A-9009
 SCALE : 1/75

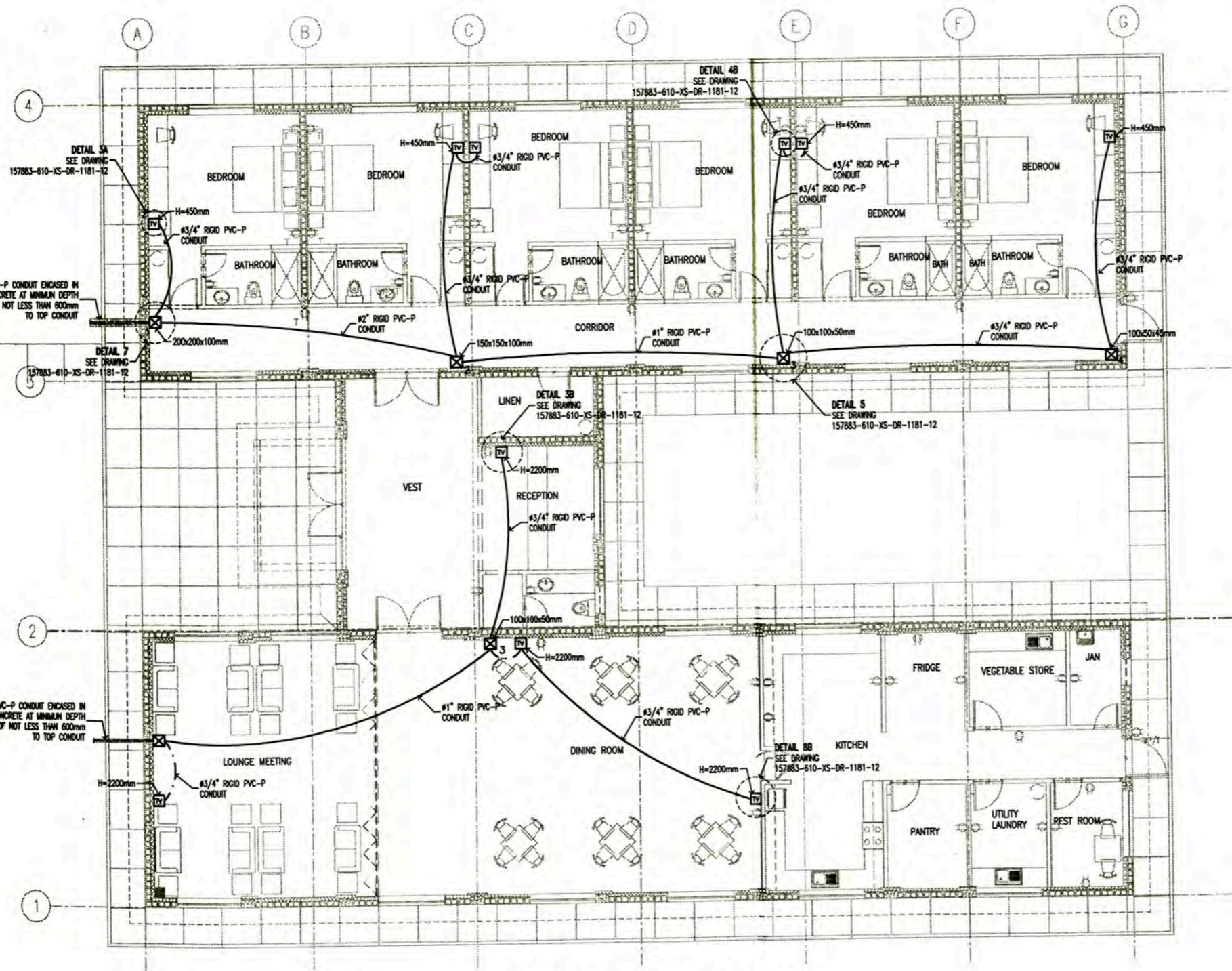
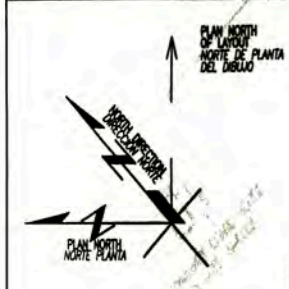
LEYENDA / LEGEND			
SIMBOLO SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS (mm) BOX (mm)	ALTURA/HEIGHT(m)
☒ 1	CAJA DE PASO DE PVC DE 150x110x70mm EMPOTRADO A PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 150x110x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	TECHO
☒ 2	CAJA DE PASO DE PVC DE 190x140x70mm EMPOTRADO EN PARED O TECHO, MODELO SCABOX DE SCAME PVC PULL BOX 190x140x70mm EMBEDDED IN WALL OR ROOF, MODEL SCABOX OF SCAME	RECTANGULAR	0.45
☒ R	CAJA RECTANGULAR METALICO, 100x55x50mm EMPOTRADO A PARED RECTANGULAR METAL BOX, 100x55x50mm, EMBEDDED IN WALL	RECTANGULAR	1.30
— —	CONDUCTOR DE FASE / PHASE CONDUCTOR	---	---
— —	CONDUCTOR NEUTRO / NEUTRAL CONDUCTOR	---	---
— —	CONDUCTOR DE TIERRA / GROUND CONDUCTOR	---	---
— —	UNIDAD EVAPORADOR DE AIRE ACONDICIONADO AIR CONDITIONING EVAPORATOR UNIT	---	2.20
— —	UNIDAD CONDENSADOR DE AIRE ACONDICIONADO AIR CONDITIONING CONDENSING UNIT	---	0.20
EF	EXTRACTOR DE AIRE EXHAUST FAN	---	TECHO ROOF
I	INTERRUPTOR UNIPOLAR DE 1x20A, 220VAC, 10KA, ADOSADO A PARED. INCLUYE INTERRUPTOR DE FALLA A TIERRA. CAJA IP66 BREAKER 1x20A, 220VAC, 10KA, ATTACHED TO WALL INCLUDE GFCI. BOX IP66	CUADRADA 150x150x100 SQUARE 150x150x100	0.45
— —	TABLERO ELECTRICO EMPOTRADO EN PARED PANELBOARD EMBEDDED IN WALL	---	1.80 NIVEL SUP. 1.80 TOP
— —	CONDUCTO DE PVC-P, SOPORTADO EN ESTRUCTURA DE TECHO O EMPOTRADO EN PARED. RIGID PVC-P CONDUIT, SUPPORT STRUCTURE FOR ROOF OR EMBEDDED WALL.	---	---
— —	CONDUCTO RIGIDO DE PVC-P EMPOTRADO DEBAJO DEL PISO RIGID PVC-P CONDUIT EMBEDDED UNDER FLOOR.	---	---
⊙	CAJA DE PASO DE PVC-P TIPO PESADO 100x40mm PVC-P JUNCTION BOX TYPE HEAVY 100x40mm	CUADRADA SQUARE	TECHO/PARED ROOF/WALL
Sx x=A, B.	INTERRUPTOR UNIPOLAR SIMPLE 16A, 250VAC, 60HZ. PARA CONTROL DE EXTRACTOR MODELO 1221-2I CON CUBIERTA LEVINTON SINGLE POLE SWITCH, 16A, 250VAC, 60HZ. FOR EXHAUST FAN CONTROL MODEL 1221-2I WITH COVER. LEVINTON	RECTANGULAR 100x55x40 RECTANGULAR 100x55x40	1.30

NOTAS/NOTES

- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157880-610-XS-SH-0002 THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002.
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001. THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001.
- EL ENCENDIDO Y APAGADO DEL EXTRACTOR SERA CON EL INTERRUPTOR DE ILUMINACION DEL CUARTO DE BAÑO. VER PLANO 157883-610-XS-DR-2131-01 THE ON/OFF EXHAUST FAN SHALL BE WITH LIGHTING SWITCH THE BATHROOM. SEE DRAWING 157883-610-XS-DR-2131-01

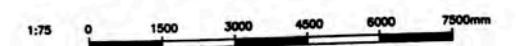


157883-610-XS-DR-2337-08 157883-610-XS-DR-2025-11 157883-610-XS-DR-2025-08 157883-610-XS-DR-2280-01 157883-610-XS-DR-2231-02 157883-610-XS-DR-2231-01	HVAC INSTALLATIONS DETAILS AND NOTES - PCB ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9004-B, DP-9009-B AND DP-9009-C ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9006, DP-9009-A AND DP-9020 HVAC-GENERAL A-9009 POWER AND RECEPTACLE OUTLETS LAYOUT GUEST HOUSE A-9009 LIGHTING DISTRIBUTION LAYOUT GUEST HOUSE A-9009	<p align="center">UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)</p> <p align="center">PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p> <p>PROYECTO: PERU LNG EXPORT PROJECT ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LUGAR: PAMPA MELCHORITA</p>	<p align="center">PERMANENT COMMUNITY BUILDINGS POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS GUEST HOUSE A-9009</p> <p>PROYECTO: PERU LNG EXPORT PROJECT ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LUGAR: PAMPA MELCHORITA</p>
11/08/09 12/08/09 15/08/09	WPA COU FTA JMG	01/07/09 1618 0	157883-610-XS-DR-2231-03

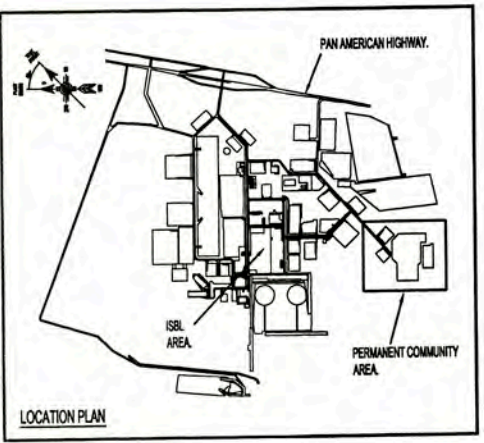
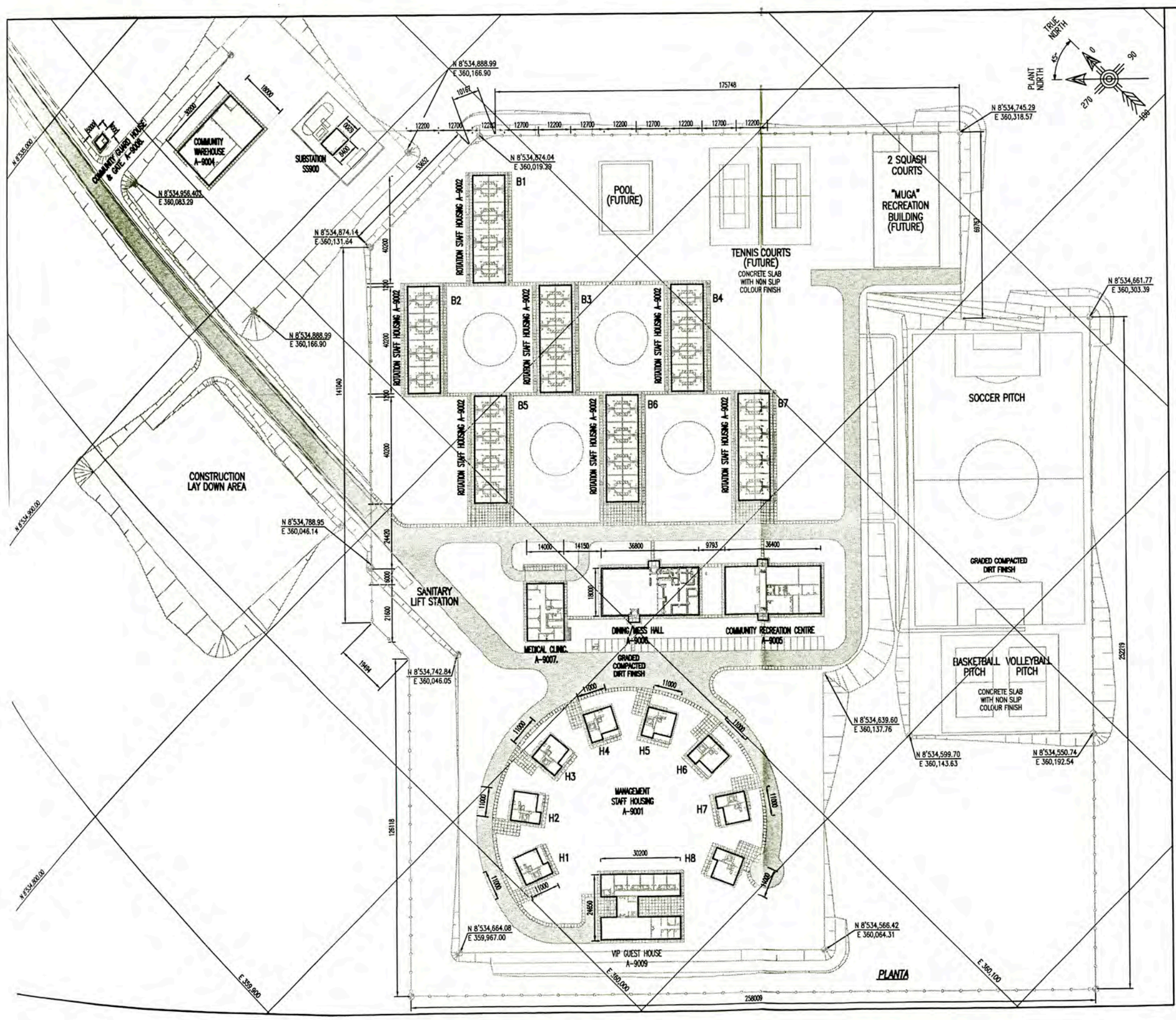


LEYENDA / LEGEND			
SIMBOLO/ SYMBOL	DESCRIPCION/DESCRIPTION	CAJAS(mm) BOX(mm)	ALTURA(m) HEIGHT(m)
☒ ₁	CAJA DE PASO DE PVC DE 200x200x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME PVC PULL BOX 200x200x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	CUADRADA SQUARE	0.45 0.45
☒ ₂	CAJA DE PASO DE PVC DE 150x150x100mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME PVC PULL BOX 150x150x100mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	CUADRADA SQUARE	TECHO ROOF
☒ ₃	CAJA DE PASO DE PVC DE 100x100x50mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME PVC PULL BOX 100x100x50mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	CUADRADA SQUARE	TECHO ROOF
☒ ₄	CAJA DE PASO DE PVC DE 150x50x45mm EMPOTRADO A PARED, MODELO SCABOX DE SCAME PVC PULL BOX 150x50x45mm EMBEDDED IN WALL, MODEL SCABOX OF SCAME	CUADRADA SQUARE	TECHO ROOF
TV	SALIDA PARA TV POR CABLE TV CABLE OUTLET	RECTANGULAR RECTANGULAR	AS REQUIRED AS REQUIRED
—	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, SOPORTADO EN ESTRUCTURA DE TECHO RIGID PVC-P CONDUIT, FOR TV CABLE, SUPPORTED FROM ROOF STRUCTURE	— —	— —
—	CONDUCTO RIGIDO DE PVC-P, PARA TV POR CABLE, EMPOTRADO EN DRYWALL RIGID PVC-P CONDUIT, FOR TV CABLE, EMBEDDED DRYWALL	— —	— —

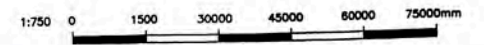
**TV OUTLETS DISTRIBUTION LAYOUT
GUEST HOUSE (9009)
PLANT
SCALE : 1/75**



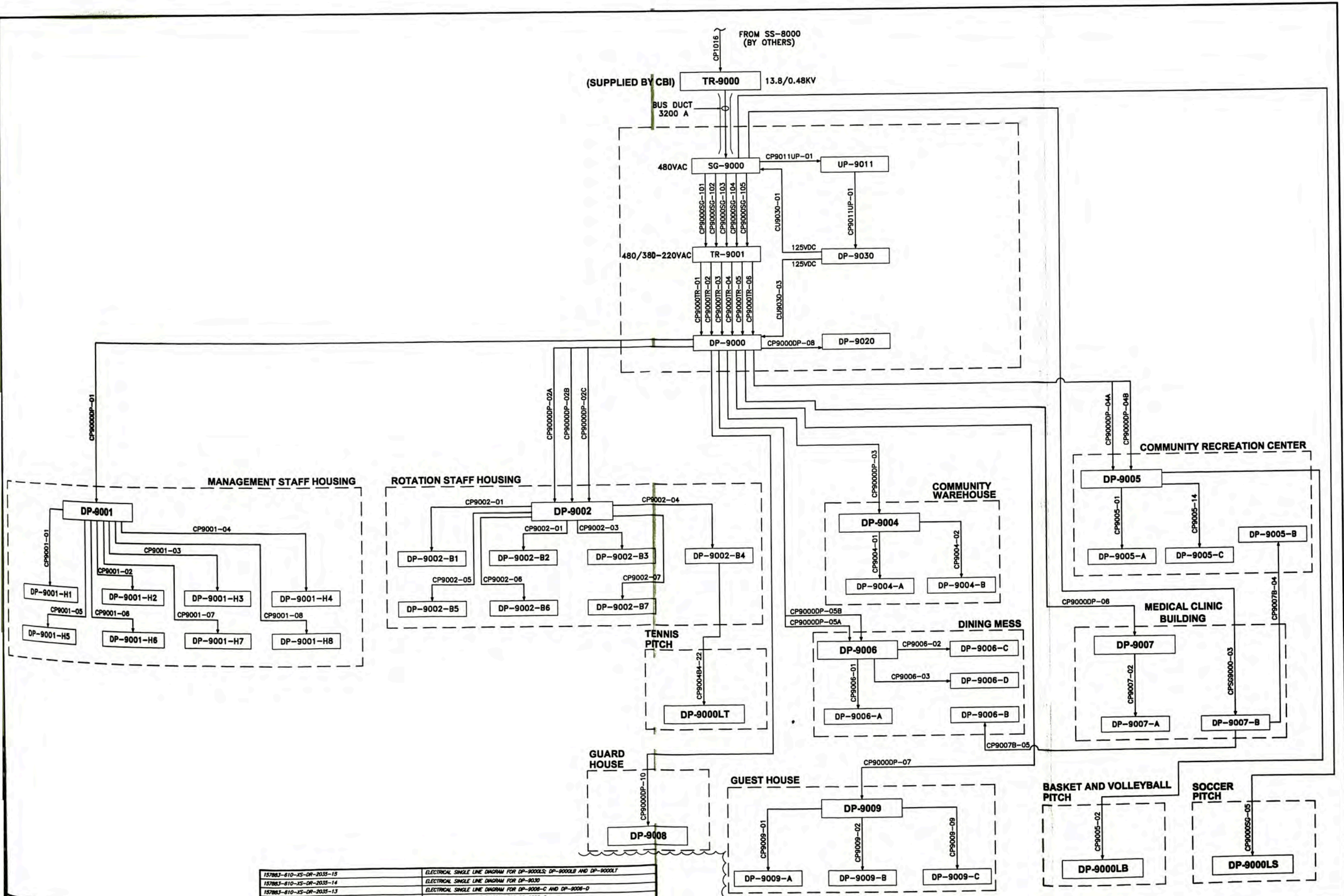
UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS TV OUTLETS DISTRIBUTION LAYOUT GUEST HOUSE A-9009	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PROJECT NO: 157883-610-XS-DR-2281-01 DATE: 01/07/09	
INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA	
PROJECT: 157883-610-XS-DR-1181-12 POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS GUEST HOUSE (9008) POWER AND RECEPTACLE OUTLETS LAYOUT GUEST HOUSE (9009) LIGHTING DISTRIBUTION LAYOUT GUEST HOUSE (9009)		DRAWING BY: WPA DESIGNED BY: COU REVISION: 0 PROJECT NO: 157883-610-XS-DR-2281-01 DATE: 01/07/09 PROJECT NO: 1818 REVISION: 0	



PLANTA



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS GENERAL PLAN LAYOUT	
PROJECT: PERU LNG EXPORT PROJECT SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA	
DRAWING BY: WPA DESIGNED BY: COU SCALE: 1/750	REVISIONS: FTA PROJECT No: 1618	APPROVED BY: JMG REVISIONS: 0	DRAWING No: 157883-610-XS-DR-2330-01
ISSUED FOR CONSTRUCTION DATE: 12/02/09 DRAWN BY: MEJ APPROVED BY: [Signature]	157883-610-XS-DR-2330-06 157883-610-XS-DR-2330-03 / 157883-610-XS-DR-2330-05 REFERENCED DRAWINGS: [List]	12/02/09 WPA MEJ	157883-610-XS-DR-2330-01



157883-610-XS-DR-2035-15	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9000LS, DP-9000LB AND DP-9000LT
157883-610-XS-DR-2035-14	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9030
157883-610-XS-DR-2035-13	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9006-C AND DP-9006-D
157883-610-XS-DR-2035-12	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9005-C
157883-610-XS-DR-2035-11	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9004-B, DP-9009-B AND DP-9009-C
157883-610-XS-DR-2035-08	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9006, DP-9009-A AND DP-9020
157883-610-XS-DR-2035-05	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9007-A, DP-9007-B AND DP-9008
157883-610-XS-DR-2035-04	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9006, DP-9006-A AND DP-9006-B
157883-610-XS-DR-2035-03	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9004, DP-9004-A, DP-9005-A AND DP-9005-B
157883-610-XS-DR-2035-02	ELECTRICAL SINGLE LINE DIAGRAM FOR DP-9001, DP-9002, DP-9002(B1-B7) AND DP-9001(H1-H8)
157883-610-XS-DR-2035-01	ELECTRICAL SINGLE LINE DIAGRAM FOR SG-9000 AND DP-9000



UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

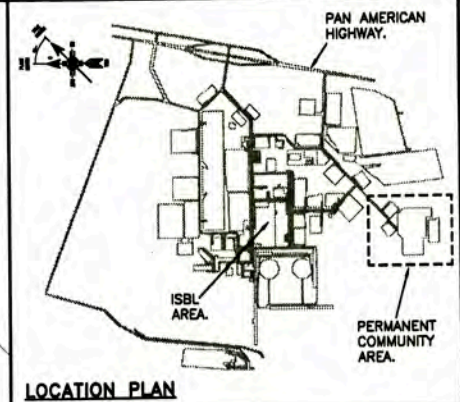
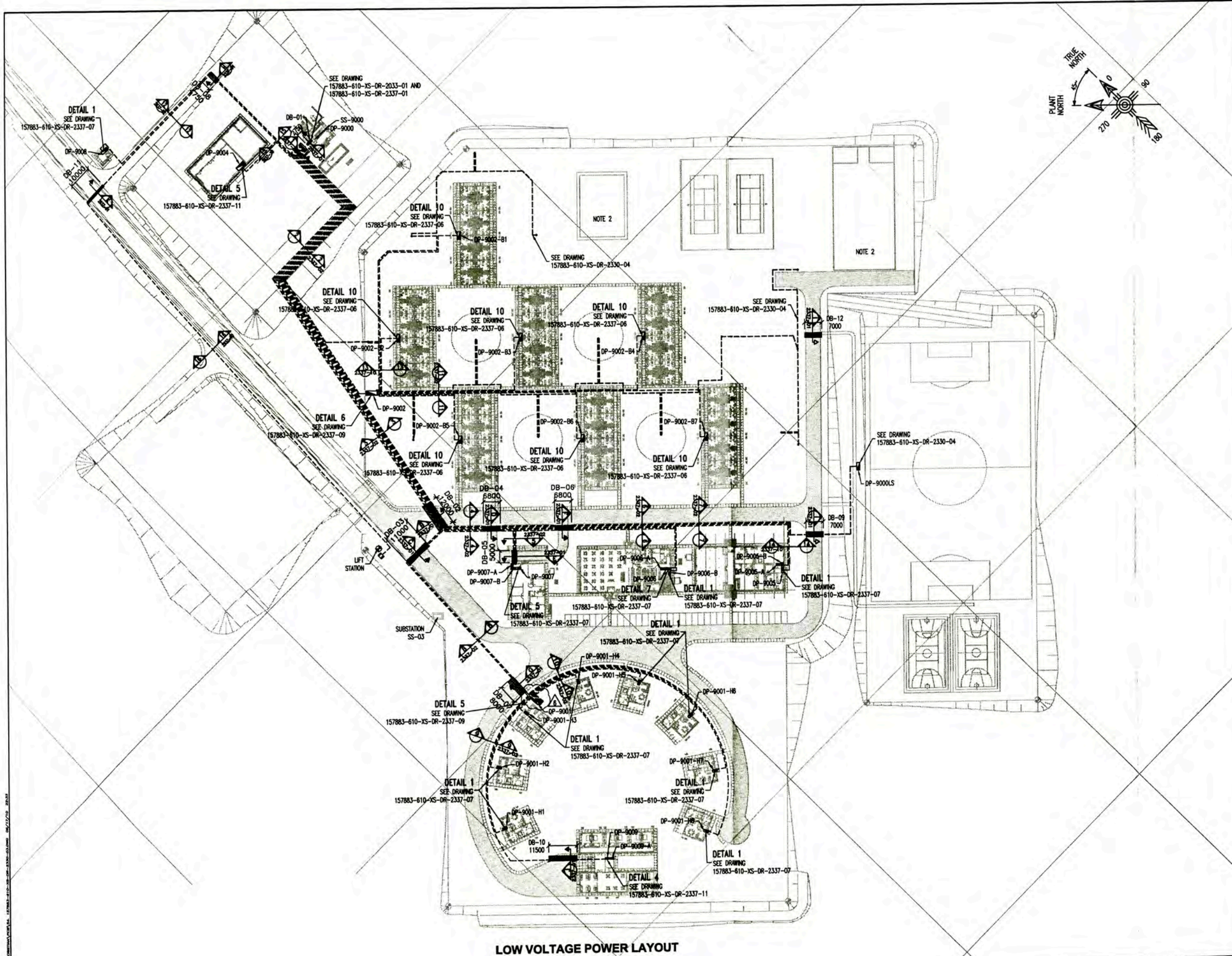
PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS
INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
PAMPA MELCHORITA

DESIGNED BY: WPA
CHECKED BY: COU
DATE: 01/07/08

PERMANENT COMMUNITY BUILDINGS
ELECTRICAL BLOCK DIAGRAM

APPROVED BY: FTA
APPROVED BY: JMG
REVISION: 0

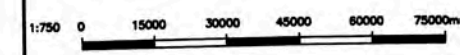
PROJECT No: 1618
PLANT No: 157883-610-XS-DR-2330-02



LEGEND - LEYENDA

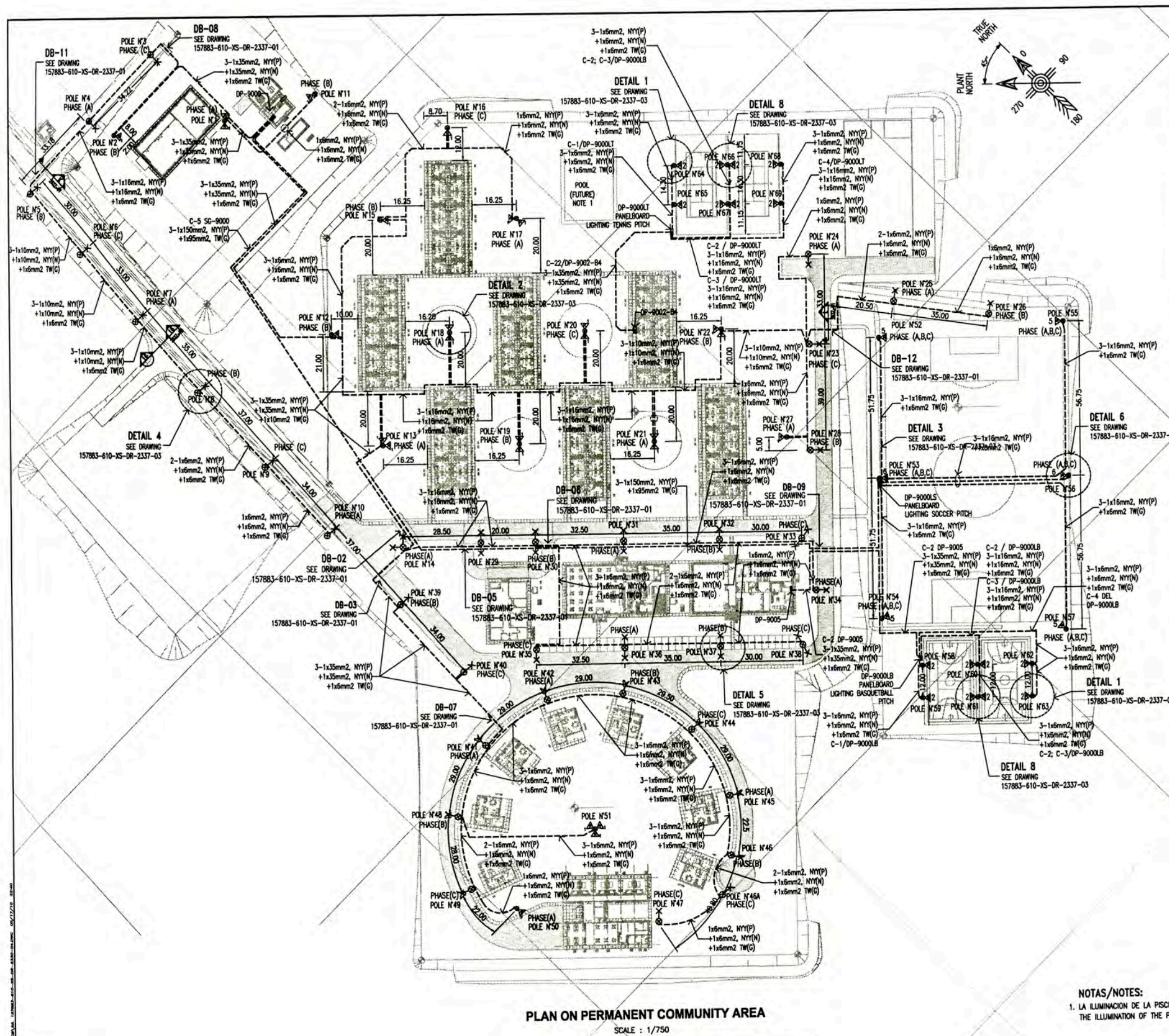
---	LOW VOLTAGE CABLE (SEE DRAWING 157883-610-XS-DR-2337-02)
▭	ELECTRICAL PANELBOARD
▬	DUCT BANK

- NOTE / NOTAS**
- THE DUCT BANK AREAS FOLLOWS:
 DB-01 : 18-4" RIGID PVC-P-CONDUIT; LONG: 2.75mts (SEE DRAWING 157883-610-XS-DR-2033-01)
 DB-02 : 12-4" RIGID PVC-P-CONDUIT; LONG: 12.00mts
 DB-03 : 09-4" RIGID PVC-P-CONDUIT; LONG: 11.00mts
 DB-04 : 09-4" RIGID PVC-P-CONDUIT; LONG: 6.80mts
 DB-05 : 06-4" RIGID PVC-P-CONDUIT; LONG: 5.00mts
 DB-06 : 09-4" RIGID PVC-P-CONDUIT; LONG: 6.80mts
 DB-07 : 06-4" RIGID PVC-P-CONDUIT; LONG: 8.00mts
 DB-08 : 04-4" RIGID PVC-P-CONDUIT; LONG: 4.75mts
 DB-09 : 04-4" RIGID PVC-P-CONDUIT; LONG: 7.00mts
 DB-10 : 04-4" RIGID PVC-P-CONDUIT; LONG: 11.50mts
 DB-11 : 04-4" RIGID PVC-P-CONDUIT; LONG: 11.00mts
 DB-12 : 04-4" RIGID PVC-P-CONDUIT; LONG: 7.00mts
 - THE DUCT BANKS FOR POOL AND MUCA RECREATION BUILDING SHALL BE BY OTHERS
 - STATING THAT DUCKS BANKS SHALL BE EXTENDED A MINIMUM OF 0.50mts AT BOTH ENDS OF THE ROADS



LOW VOLTAGE POWER LAYOUT
SCALE : 1/750.

UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS LOW VOLTAGE POWER LAYOUT	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DRAWING BY: WPA CHECKED BY: COU DESIGNED BY: FTA APPROVED BY: JMG	
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) LOCATION: PAMPA MELCHORITA		SCALE: 17750 DATE: 01/07/09 PROJECT No: 1818 REVISION: 0	
DRAWING NO: 157883-610-XS-DR-2330-03			



PCB POLES COORDINATES		
N° POLES	EAST	NORTH
1	360135.333	8534931.588
2	360110.760	8534957.780
3	360132.896	8534972.413
4	360098.485	8534972.413
5	360083.095	8534966.403
6	360061.486	8534936.400
7	360059.720	8534903.490
8	360057.840	8534888.466
9	360055.860	8534831.553
10	360054.034	8534787.523
11	360165.977	8534614.201
12	360107.373	8534847.898
13	360092.279	8534805.478
14	360072.189	8534774.527
15	360150.294	8534884.467
16	360191.548	8534870.444
17	360185.589	8534829.193
18	360138.707	8534817.516
19	360127.310	8534770.657
20	360173.925	8534782.288
21	360162.556	8534735.631
22	360208.149	8534747.094
23	360227.551	8534720.105
24	360250.878	8534743.462
25	360257.959	8534707.134
26	360277.962	8534678.353
27	360197.399	8534702.203
28	360199.982	8534692.535
29	360091.437	8534755.279
30	360105.580	8534741.137
31	360128.552	8534718.165
32	360153.306	8534693.411
33	360174.522	8534672.194
34	360184.462	8534655.070
35	360077.753	8534713.294
36	360100.867	8534690.464
37	360125.621	8534685.709
38	360146.845	8534644.501
39	360052.056	8534760.655
40	360053.241	8534726.600
41	360039.618	8534701.606
42	360067.168	8534697.232
43	360068.067	8534678.952
44	360095.850	8534651.878
45	360088.407	8534625.133
46	360073.181	8534609.645
46A	360061.611	8534601.475
47	360037.827	8534611.224
48	360014.068	8534690.679
49	359999.950	8534688.842
50	360003.979	8534650.846
51	360045.824	8534651.787
52	360245.316	8534700.000
53	360210.462	8534687.025
54	360173.899	8534630.431
55	360298.835	8534658.494
56	360259.990	8534617.528
57	360218.800	8534578.459
58	360172.053	8534607.562
59	360163.552	8534599.095
60	360198.208	8534593.409
61	360177.723	8534584.924
62	360200.338	8534579.280
63	360192.911	8534570.810
64	360239.719	8534801.416
65	360229.607	8534781.305
66	360253.567	8534787.568
67	360253.455	8534777.457
68	360267.415	8534773.720
69	360257.303	8534763.609



- NOTES:**
- 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON PASTORAL SIMPLE DE CONCRETO DE 1.50 METROS TIPO PARABOLICO, CON ARTEFACTO DE ALUMBRADO EXTERIOR DE 150W, 220VAC, CON LAMPARA TUBULAR DE VAPOR DE SODIO, IP65, MODELO: MILENUM 150 DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH, WITH CROSSHEAD SIMPLE 1.50 METERS PARABOLIC TYPE WITH OUTDOOR ILLUMINATION DEVICE OF 150W, 220VAC, WITH LAMP TUBULAR SODIUM VAPOR, IP65, MODEL: MILENUM 150 JOSFEL.
 - 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON PASTORAL DOBLE DE CONCRETO DE 1.50 METROS TIPO PARABOLICO, CON 02 ARTEFACTOS DE ALUMBRADO EXTERIOR DE 150W, 220VAC, CON LAMPARA TUBULAR DE VAPOR DE SODIO, IP65, MODELO: MILENUM 150 DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH, WITH CROSSHEAD DOUBLE 1.50 METERS PARABOLIC TYPE WITH 02 OUTDOOR ILLUMINATION DEVICE OF 150W, 220VAC, WITH LAMP TUBULAR SODIUM VAPOR, IP65, MODEL: MILENUM 150 JOSFEL.
 - 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON CRUCETA DE CONCRETO DE 1.5 METROS, CON 02 REFLECTORES ASIMETRICOS DE 400W, 220VAC, DE HALOGENURO METALICO, IP65, MODELO: RL40 E, 400W MH DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH WITH CROSSHEAD 1.5 METERS WITH 02 ASYMMETRIC REFLECTORS 400W, 220VAC, METAL HALIDE, IP65, MODEL: RL40 E, 400W MH JOSFEL.
 - 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON CRUCETA DE CONCRETO DE 1.50 METROS, CON 02 REFLECTORES ASIMETRICOS DE 400W, 220VAC, DE VAPOR DE SODIO, IP65, MODELO: RL40 E, 400W VSP-T DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH WITH CROSSHEAD 1.50 METERS, WITH 02 ASYMMETRIC REFLECTORS 400W, 220VAC, SODIUM VAPOR, IP65, MODEL: RL40 E, 400W VSP-T JOSFEL.
 - 01 POSTE DE CONCRETO DE 20 METROS DE ALTURA; CON 03 CRUCETAS DE CONCRETO DE 2 METROS, CON 05 REFLECTORES ASIMETRICOS DE 1500W, 480VAC, DE HALOGENURO METALICO, IP65, MODELO: TSP 1500M GP24W 480 DF LPI - LITHONIA.
 - 01 CONCRETE POLE, 20 METERS HIGH, WITH 03 CROSSHEAD 2 METERS, WITH 05 ASYMMETRIC REFLECTORS 1500W, 480 VAC, METAL HALIDE, IP65, MODEL: TSP 1500M GP24W 480 DF LPI - LITHONIA.
 - 01 POSTE DE CONCRETO DE 20 METROS DE ALTURA; CON 03 CRUCETAS DE CONCRETO DE 2 METROS, CON 06 REFLECTORES ASIMETRICOS DE 1500W, 480VAC, DE HALOGENURO METALICO, IP65, MODELO: TSP 1500M GP24W 480 DF LPI - LITHONIA.
 - 01 CONCRETE POLE, 20 METERS HIGH, WITH 03 CROSSHEAD 2 METERS, WITH 06 ASYMMETRIC REFLECTORS 1500W, 480 VAC, METAL HALIDE, IP65, MODEL: TSP 1500M GP24W 480 DF LPI - LITHONIA.
 - 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON CRUCETA DE CONCRETO DE 1.5 METROS, CON 04 REFLECTORES ASIMETRICOS DE 400W, 220VAC, DE HALOGENURO METALICO, IP65, MODELO: RL40 E, 400W MH DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH WITH CROSSHEAD 1.5 METERS, WITH 04 ASYMMETRIC REFLECTORS 400W, 220VAC, METAL HALIDE, IP65, MODEL: RL40 E, 400W MH JOSFEL.

PLAN ON PERMANENT COMMUNITY AREA
SCALE : 1/750

NOTAS/NOTES:
1. LA ILUMINACION DE LA PISCINA SERA POR OTROS
THE ILLUMINATION OF THE POOL SHALL BE BY OTHERS

157883-610-XS-DR-2035-03	ELECTRICAL SINGLE LINE DIAGRAMS DP-9004, DP-9004-A, DP-9005 AND DP-9005-A
157883-610-XS-DR-2035-01	SS-9000 ELECTRICAL SINGLE LINE DIAGRAMS FOR SS-9000 AND DP-9005
157883-610-XS-DR-2035-12	ELECTRICAL SINGLE LINE DIAGRAMS FOR DP-9005-C
157883-610-XS-DR-2337-02	SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT
157883-610-XS-DR-2337-01	ELECTRICAL DUCT BANK INSTALLATION DETAILS AND NOTES
157883-610-XS-DR-2330-05	PCB GROUNDING SYSTEM LAYOUT
157883-610-XS-DR-2330-03	LOW VOLTAGE POWER LAYOUT
157883-610-XS-DR-2337-03	EXTERIOR LIGHTING INSTALLATION DETAILS AND NOTES
157883-610-XS-DR-2337-01	EXTERIOR LIGHTING INSTALLATION DETAILS AND NOTES

UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERMANENT COMMUNITY BUILDINGS
EXTERIOR LIGHTING LAYOUT

PROJECT: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

DESIGNED BY: WPA
CHECKED BY: COU
DATE: 01/07/09

APPROVED BY: FTA
REVISION: 0

PROJECT NO: 1618

SCALE: 1/750

PERMANENT COMMUNITY BUILDINGS
EXTERIOR LIGHTING LAYOUT

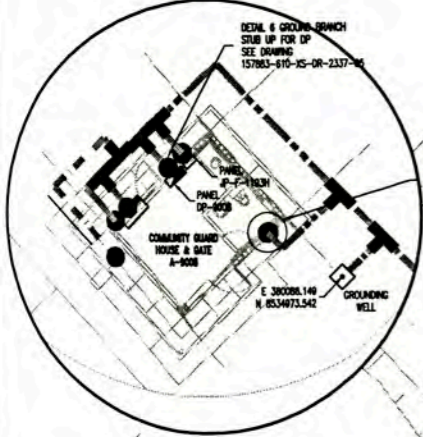
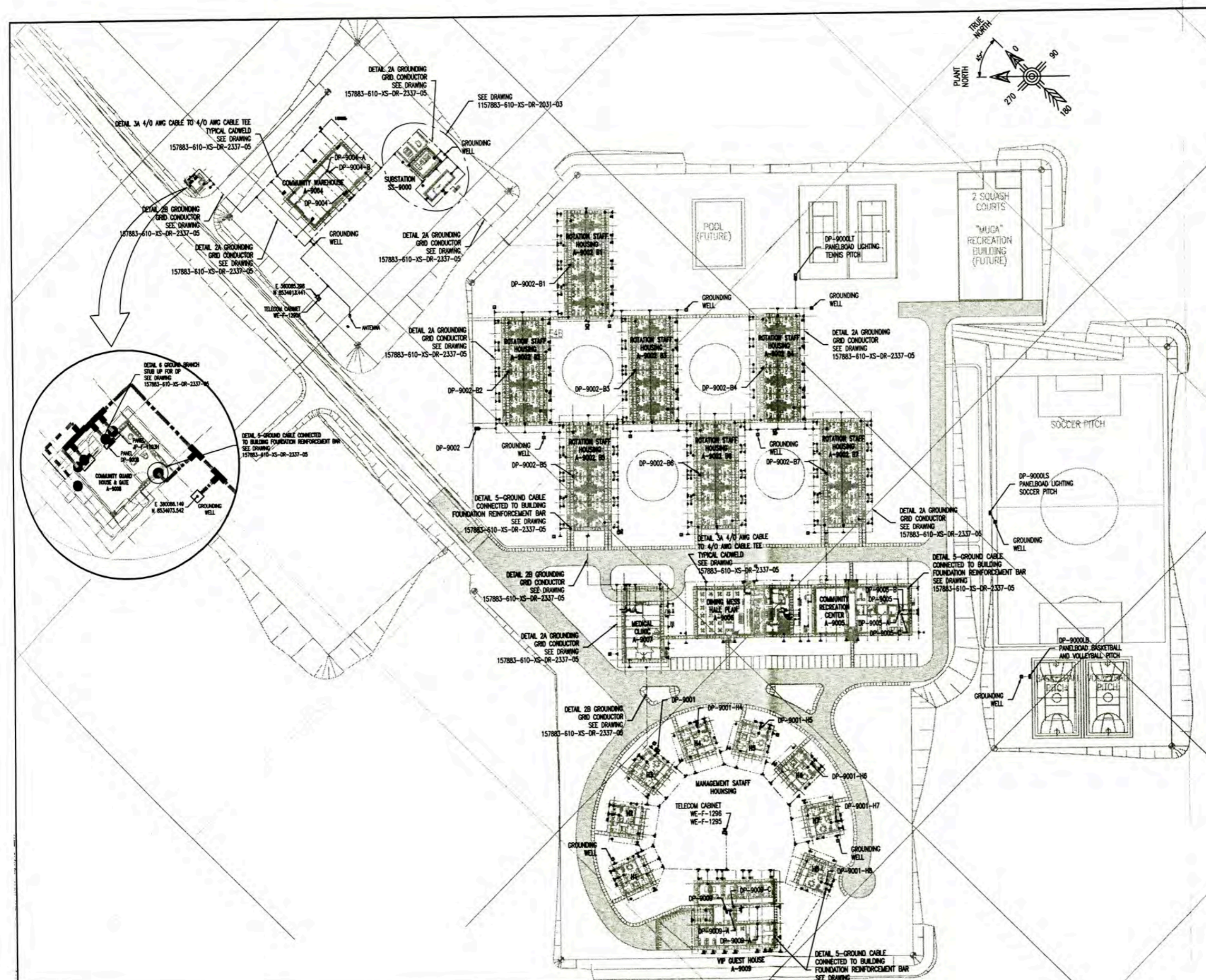
ISSUED FOR CONSTRUCTION

DATE: 27/08/08

SCALE: 1/750

PROJECT NO: 157883-610-XS-DR-2330-04

LEYENDA / LEGEND	
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO (TW/VERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED Cu CABLE
	CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE Cu CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	CABLE DESNUDO 2 AWG 2 AWG BARE CONDUCTOR
	POZO DE PUESTA A TIERRA CON CAJA DE REGISTRO GROUNDING PIT WITH INSPECTION WELL
	POZO DE PUESTA A TIERRA SIN CAJA DE REGISTRO GROUNDING PITS WITHOUT ACCESS
	CABLE DE COBRE DESNUDO 2/0 AWG POR BANDEJA 2/0 AWG BARE Cu CABLE BY CABLE TRAY

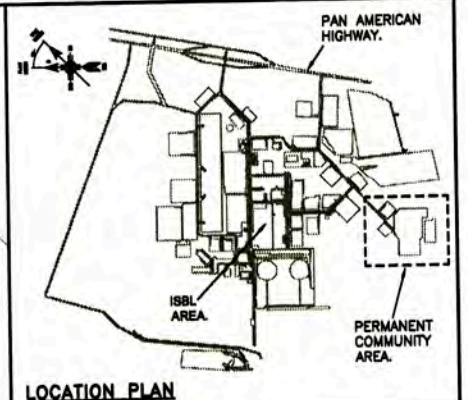
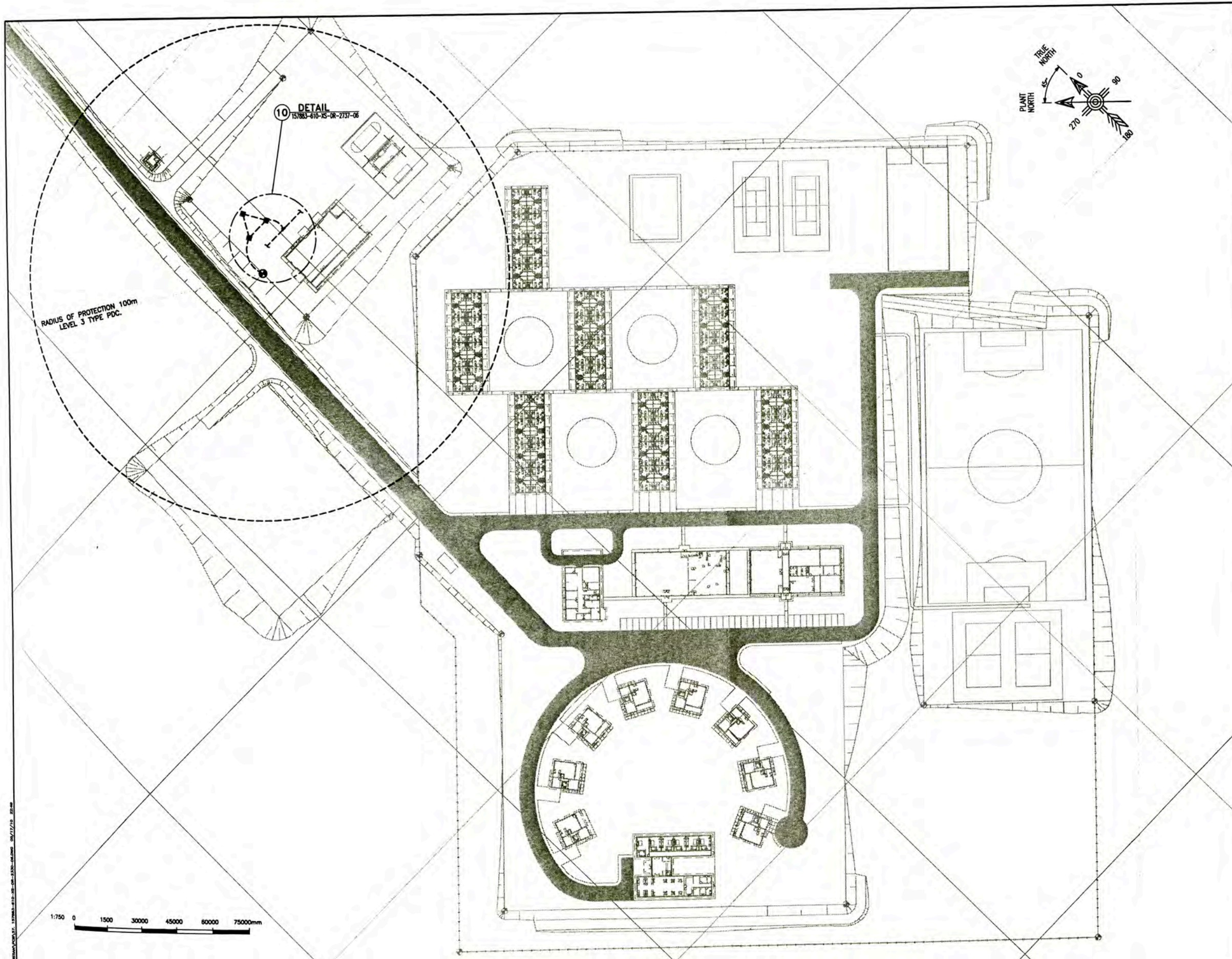


157883-610-XS-DR-2330-14	GROUNDING SYSTEM LAYOUT MANAGEMENT STAFF HOUSING A-9001 AND VP GUEST HOUSE A-9009
157883-610-XS-DR-2330-13	GROUNDING SYSTEM LAYOUT COMMUNITY RECREATION CENTRE A-9005
157883-610-XS-DR-2330-12	GROUNDING SYSTEM LAYOUT DINING / MESS HALL A-9006
157883-610-XS-DR-2330-11	GROUNDING SYSTEM LAYOUT MEDICAL CLINIC A-9007
157883-610-XS-DR-2330-10	GROUNDING SYSTEM LAYOUT ROTATORY STAFF HOUSING A-9002
157883-610-XS-DR-2330-09	GROUNDING SYSTEM LAYOUT COMMUNITY WAREHOUSE A-9004 AND COMMUNITY GYM HOUSE & GATE A-9008
157883-610-XS-DR-2033-01	EQUIPMENT DISTRIBUTION AND GROUNDING SYSTEM SUBSTATION SS-9000
157883-610-XS-DR-2337-08	SUBSTATION SS-9000 LIGHTNING PROTECTION SYSTEM LAYOUT
157883-610-XS-DR-2337-05	GROUNDING AND LIGHTNING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 1 OF 2

UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERMANENT COMMUNITY BUILDINGS
GROUNDING SYSTEM LAYOUT

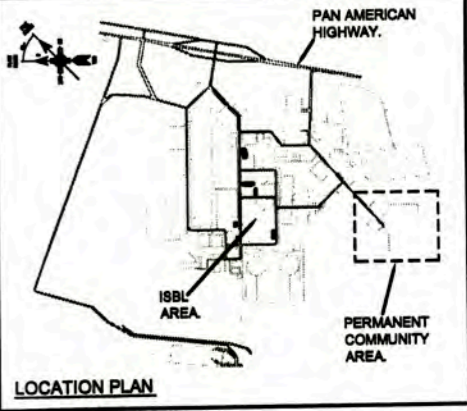
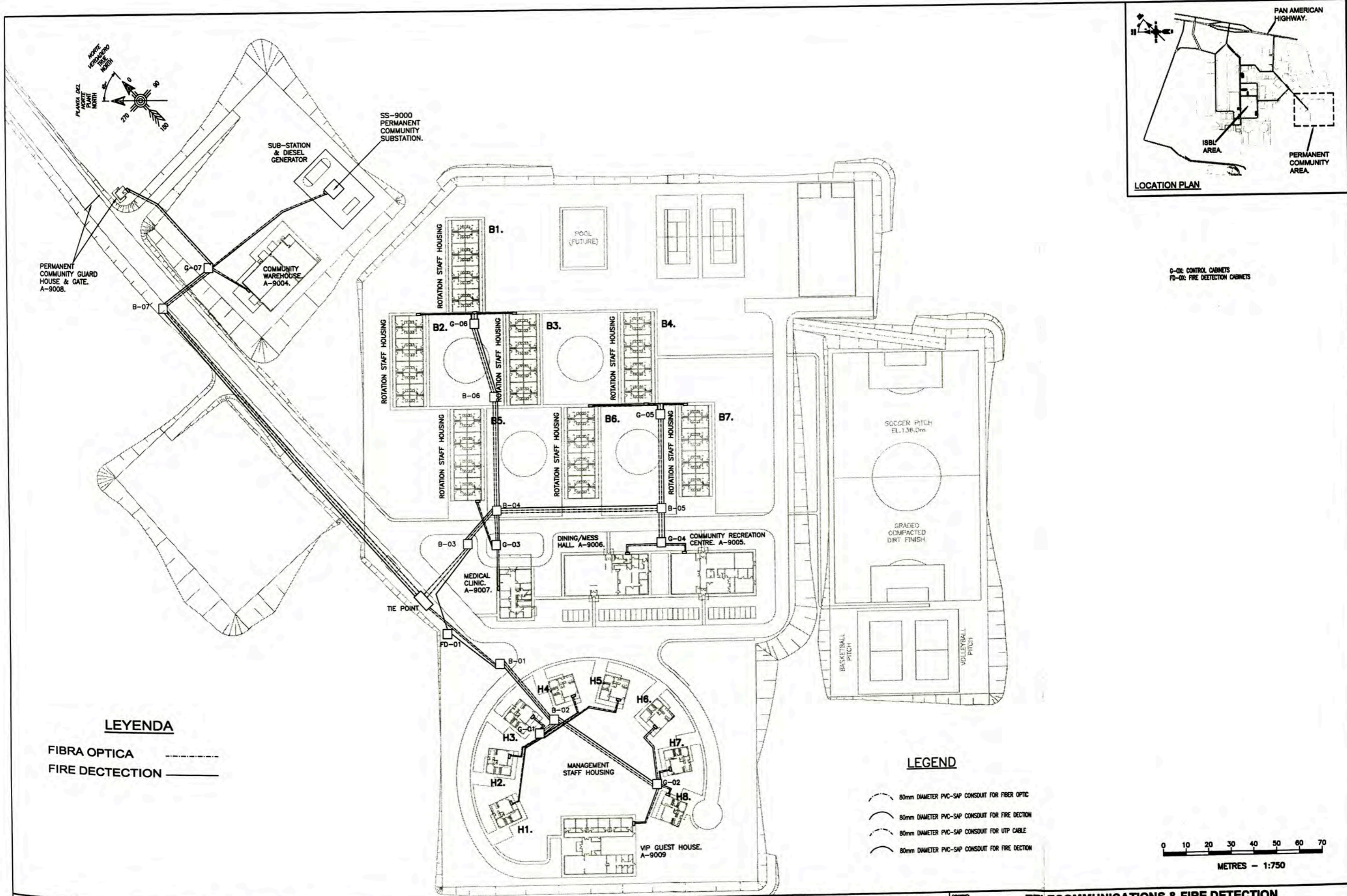
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DESIGNED BY: WPA	CHECKED BY: COU	APPROVED BY: FTA	APPROVED BY: JMG	DRAWING NO: 157883-610-XS-DR-2330-05
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	SCALE: 1:7750	DATE: 01/07/09	PROJECT No: 1618	REVISION: 0	
LOCATION: PAMPA MELCHORITA					



NOTE:

- 1.-ACCORDING TO EXHIBIT B, ATTACHMENT B, CLAUSE 12 OF SUBCONTRACTOR 1133157883-SC-38000-1 SAID: "DELETED LIGHTNING PROTECT SYSTEM ON ALL PC BUILDING EXCEPT SS-9000"
- 2.-DISERIO DE ACUERDO A LA NORMA FRANCESA NFC-17102. DESING OF AGREEMENT TO STANDAR FRENCH NFC-17102.
- 3.-PDC = LIGHTNING, PRIMING DEVICE

UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)										ELECTRICAL INSTALATIONS GROUNDING SYSTEM LAYOUT LIGHTNING SYSTEM				
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS										DESIGNED BY: WPA	DESIGNED BY: COJ	REVIEWED BY: FTA	APPROVED BY: JMG	
ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)										LOCALIDAD: PAMPA MELCHORITA	AREA: 17750	DATE: 01/07/09	PROJECT No: 1618	REVISION: 0
ISSUE NO: 0 ISSUED FOR CONSTRUCTION										DRAWING NO: 157883-610-XS-DR-2330-06				



G-01 CONTROL CABINETS
FD-01 FIRE DETECTION CABINETS

LEYENDA

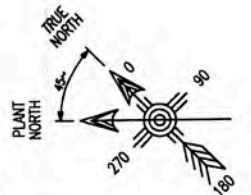
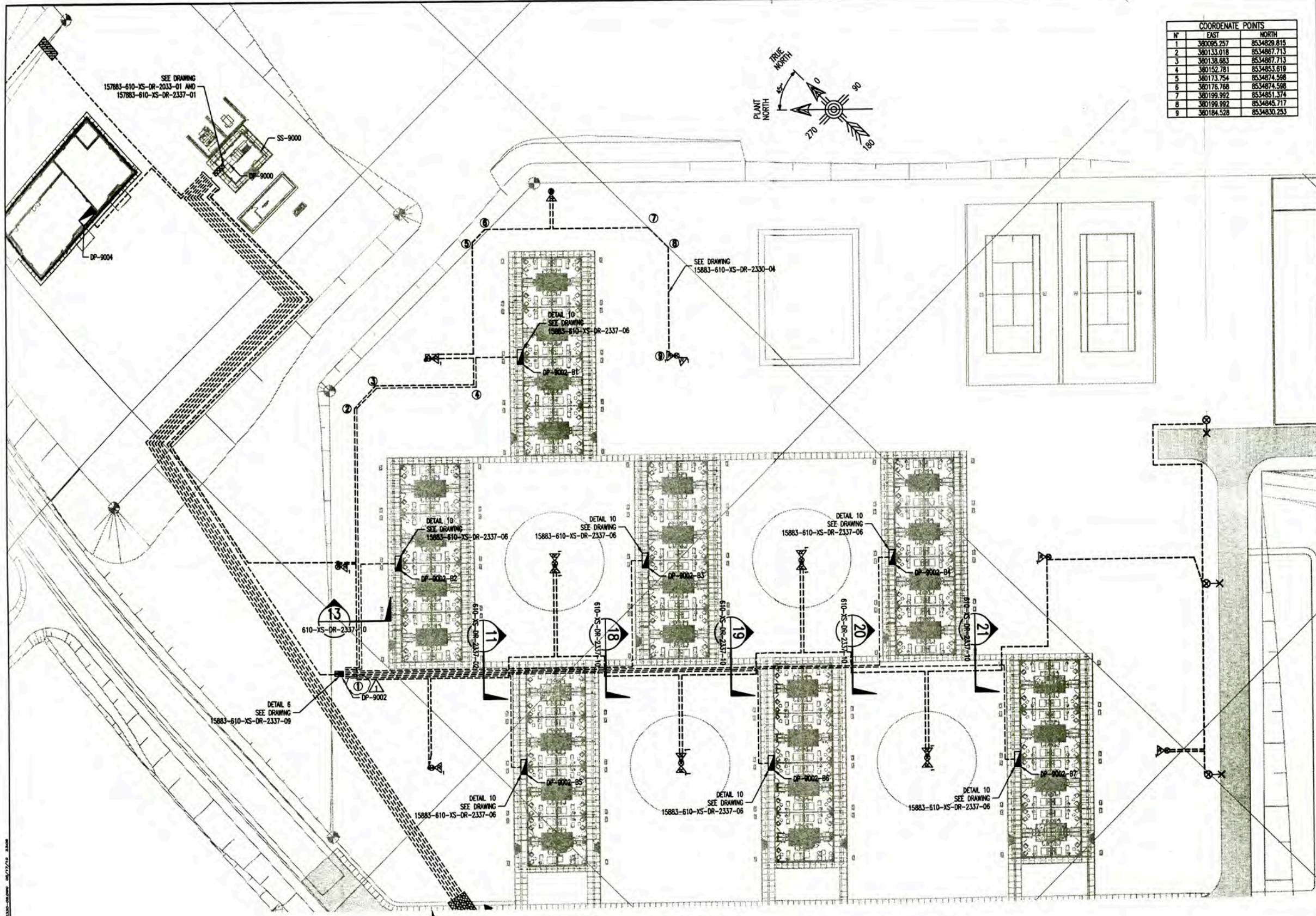
FIBRA OPTICA - - - - -
FIRE DETECTION ————

LEGEND

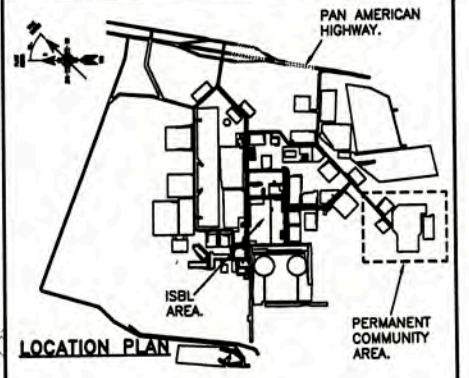
- ⊖ 80mm DIAMETER PVC-SAP CONDUIT FOR FIBER OPTIC
- ⊖ 80mm DIAMETER PVC-SAP CONDUIT FOR FIRE DETECTION
- ⊖ 80mm DIAMETER PVC-SAP CONDUIT FOR UTP CABLE
- ⊖ 80mm DIAMETER PVC-SAP CONDUIT FOR FIRE DETECTION



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)					TELECOMMUNICATIONS & FIRE DETECTION PERMANENT COMMUNITY BUILDINGS				
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS					DRAWING NO: WPA DESIGNED BY: COU REVISIONS: FTA APPROVED BY: JMG DRAWING NO: 157883-610-XS-DR-2330-07				
ESPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)					LOCALIDAD: PAMPA MELCHORITA ESCALA: 1/750 FECHA: 01/07/09 PROYECTO: 1618 REVISION: 0				



COORDENATE POINTS		
Nº	EAST	NORTH
1	360095.257	8534829.815
2	360133.018	8534867.713
3	360138.683	8534867.713
4	360152.781	8534853.619
5	360173.754	8534874.586
6	360176.766	8534874.586
7	360199.992	8534851.374
8	360199.992	8534845.717
9	360184.528	8534830.253

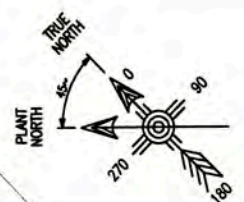
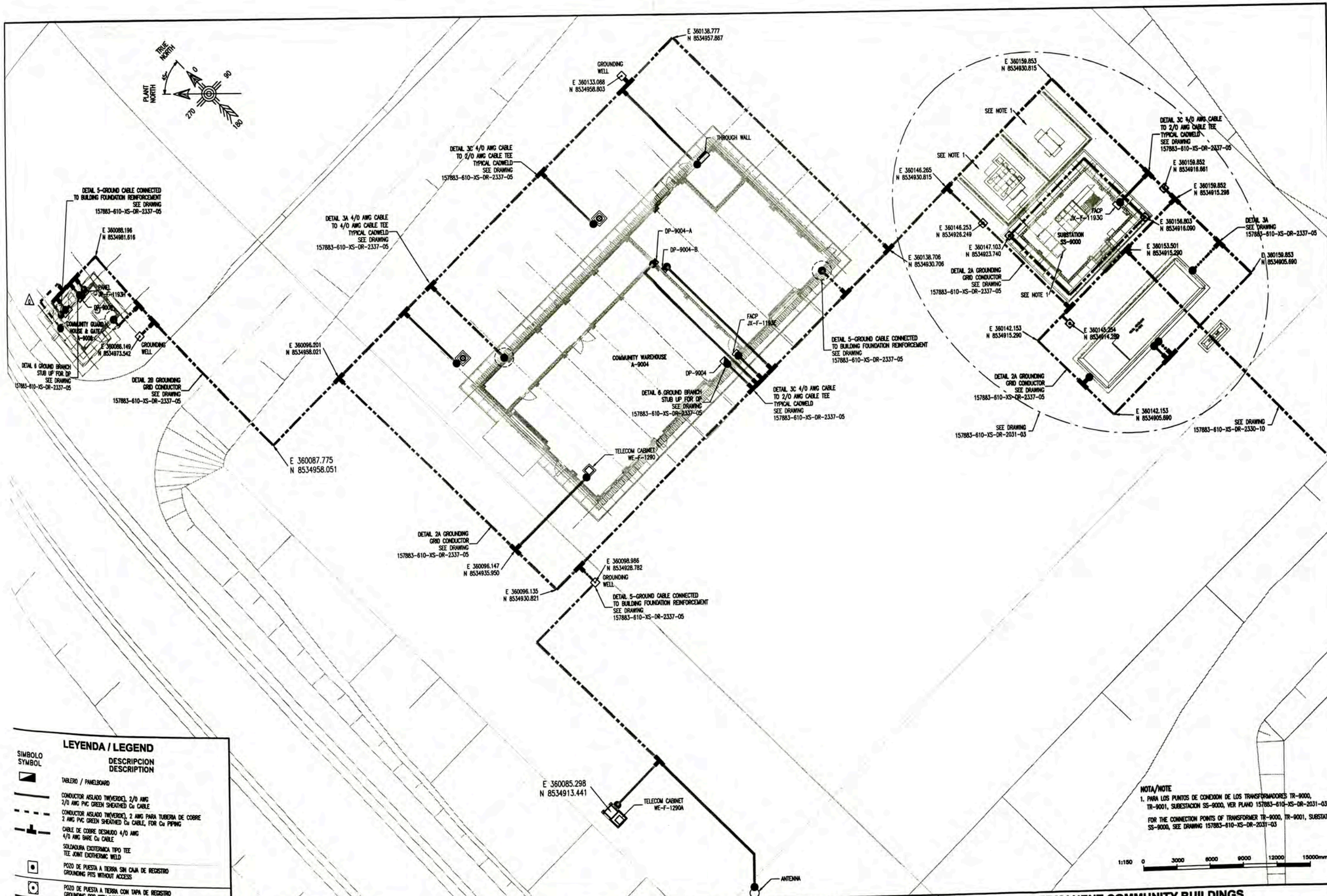


LEGEND - LEYENDA	
	LOW VOLTAGE CABLE (SEE DRAWING 157883-610-XS-DR-2337-02)
	ELECTRICAL PANELBOARD

LOW VOLTAGE POWER LAYOUT
SCALE : 1/400



0 ISSUED FOR CONSTRUCTION 17/10/09		157883-610-XS-DR-2330-03 PCB LOW VOLTAGE POWER LAYOUT			UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS LOW VOLTAGE POWER LAYOUT ROTATION STAFF HOUSING A-9002	
157883-610-XS-DR-2330-04 PCB GROUNDING SYSTEM LAYOUT		157883-610-XS-DR-2337-05 PCB EXTERIOR LIGHTING LAYOUT			PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING BY: WPA DESIGNED BY: COJ CHECKED BY: FTA DATE: 01/07/09	APPROVED BY: JMG PROJECT NO: 1618	DRAWING NO: 157883-610-XS-DR-2330-08
157883-610-XS-DR-2337-10 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT		157883-610-XS-DR-2337-06 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT			SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	REVISION: 0	
157883-610-XS-DR-2337-02 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT		157883-610-XS-DR-2337-06 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT						
157883-610-XS-DR-2330-03 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT		157883-610-XS-DR-2337-06 SECTIONS FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT						



SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO (TWIVERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED CU CABLE
	CONDUCTOR AISLADO (TWIVERDE), 2 AWG PARA TUBERIA DE COBRE 2 AWG PFC GREEN SHEATHED CU CABLE, FOR CU PIPING
	CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE CU CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	POZO DE PUESTA A TIERRA SIN CUBA DE REGISTRO GROUNDING PITS WITHOUT ACCESS
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL

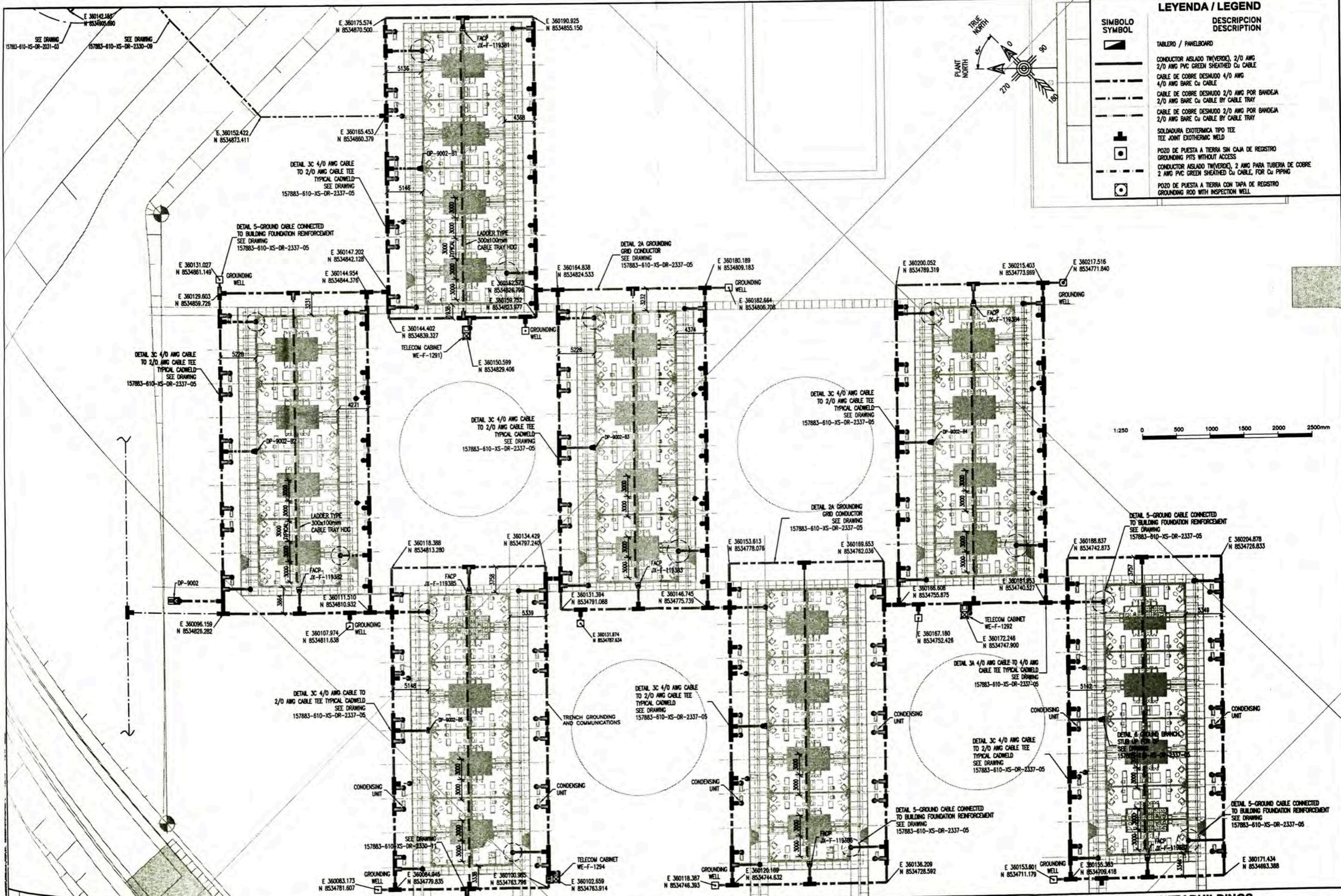
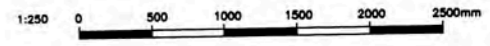
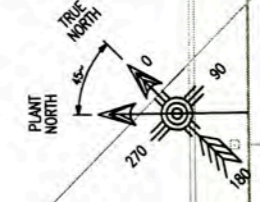
NOTA/NOTE
 1. PARA LOS PUNTOS DE CONEXION DE LOS TRANSFORMADORES TR-9000, TR-9001, SUBESTACION SS-9000, VER PLANO 157883-610-XS-DR-2031-03
 FOR THE CONNECTION POINTS OF TRANSFORMER TR-9000, TR-9001, SUBSTATION SS-9000, SEE DRAWING 157883-610-XS-DR-2031-03



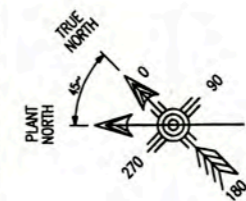
UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT COMMUNITY WAREHOUSE A-9004 AND COMMUNITY GUARD HOUSE & GATE A-9008	
PROJECT: PERU LNG EXPORT PROJECT SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DRAWING NO: 157883-610-XS-DR-2330-09 SHEET: 1 OF 2	DATE: 01/07/09 PROJECT NO: 1618
DESIGNED BY: WPA CHECKED BY: COU SCALE: 1/150	REVIEWED BY: FTA APPROVED BY: JMG REVISION: 0	DRAWING NO: 157883-610-XS-DR-2330-09	

LEYENDA / LEGEND

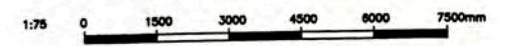
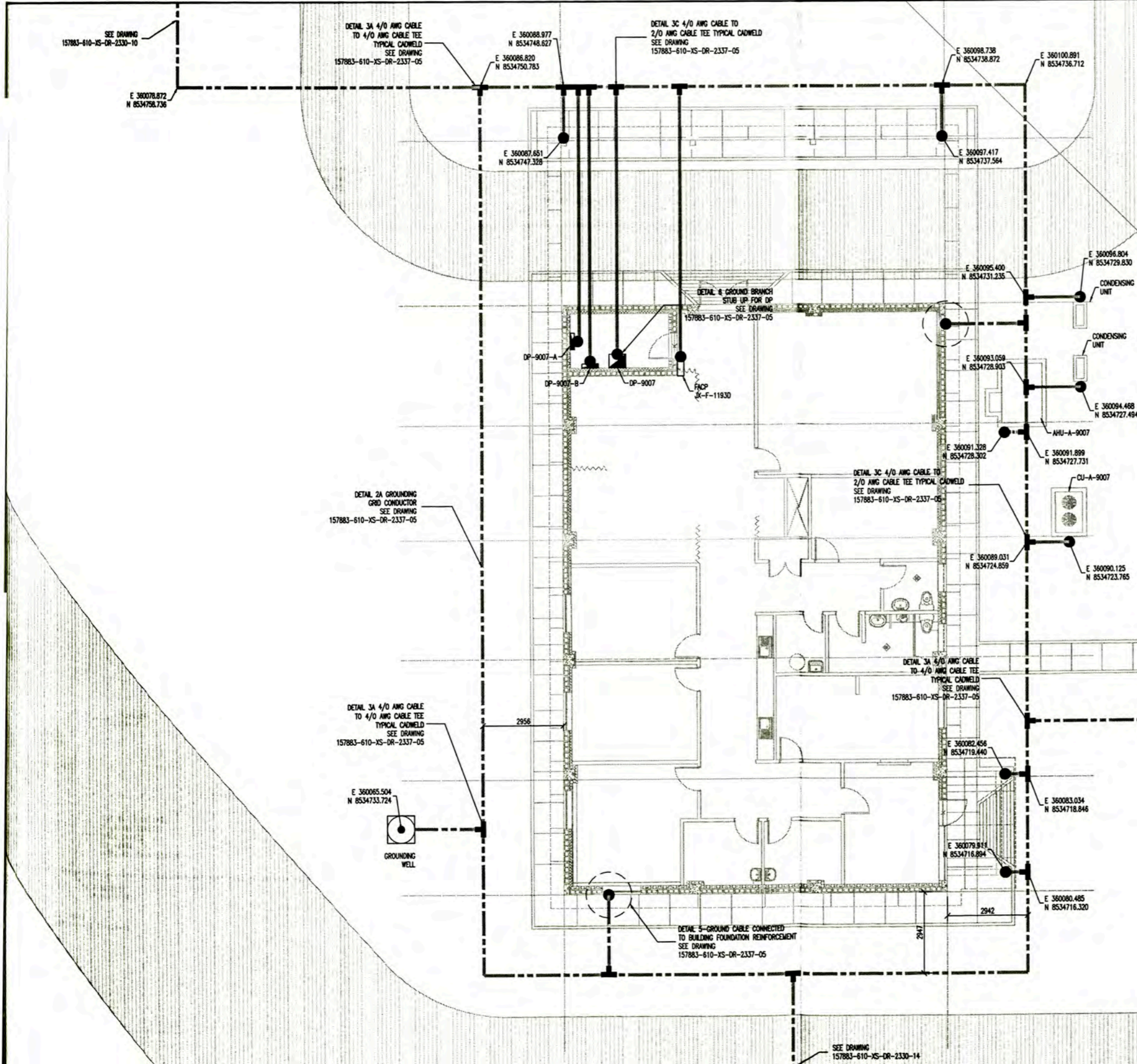
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
[Symbol]	TABLERO / PANELBOARD
[Symbol]	CONDUCTOR AISLADO (TW/VERDE), 2/0 AWG
[Symbol]	2/0 AWG PVC GREEN SHEATHED Cu CABLE
[Symbol]	CABLE DE COBRE DESNUDO 4/0 AWG
[Symbol]	4/0 AWG BARE Cu CABLE
[Symbol]	CABLE DE COBRE DESNUDO 2/0 AWG POR BANDEJA
[Symbol]	2/0 AWG BARE Cu CABLE BY CABLE TRAY
[Symbol]	CABLE DE COBRE DESNUDO 2/0 AWG POR BANDEJA
[Symbol]	2/0 AWG BARE Cu CABLE BY CABLE TRAY
[Symbol]	SOLDADURA EXOTERMICA TIPO TEE
[Symbol]	TEE JOINT EXOTHERMIC WELD
[Symbol]	POZO DE PUESTA A TIERRA SIN CAMA DE REGISTRO
[Symbol]	GROUNDING PITS WITHOUT ACCESS
[Symbol]	CONDUCTOR AISLADO (TW/VERDE), 2 AWG PARA TUBERIA DE COBRE
[Symbol]	2 AWG PVC GREEN SHEATHED Cu CABLE, FOR Cu PIPING
[Symbol]	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO
[Symbol]	GROUNDING ROD WITH INSPECTION WELL



<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)</p>				<p>PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT ROTATION STAFF HOUSING A-9002</p>			
<p>PROYECTO: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>				<p>PROYECTO: 1618 REVISOR: JMG</p>			
<p>SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>				<p>BOLETA: 1/250 FECHA: 01/07/09</p>			
<p>ISSUED FOR CONSTRUCTION</p>				<p>157883-610-XS-DR-2330-10</p>			

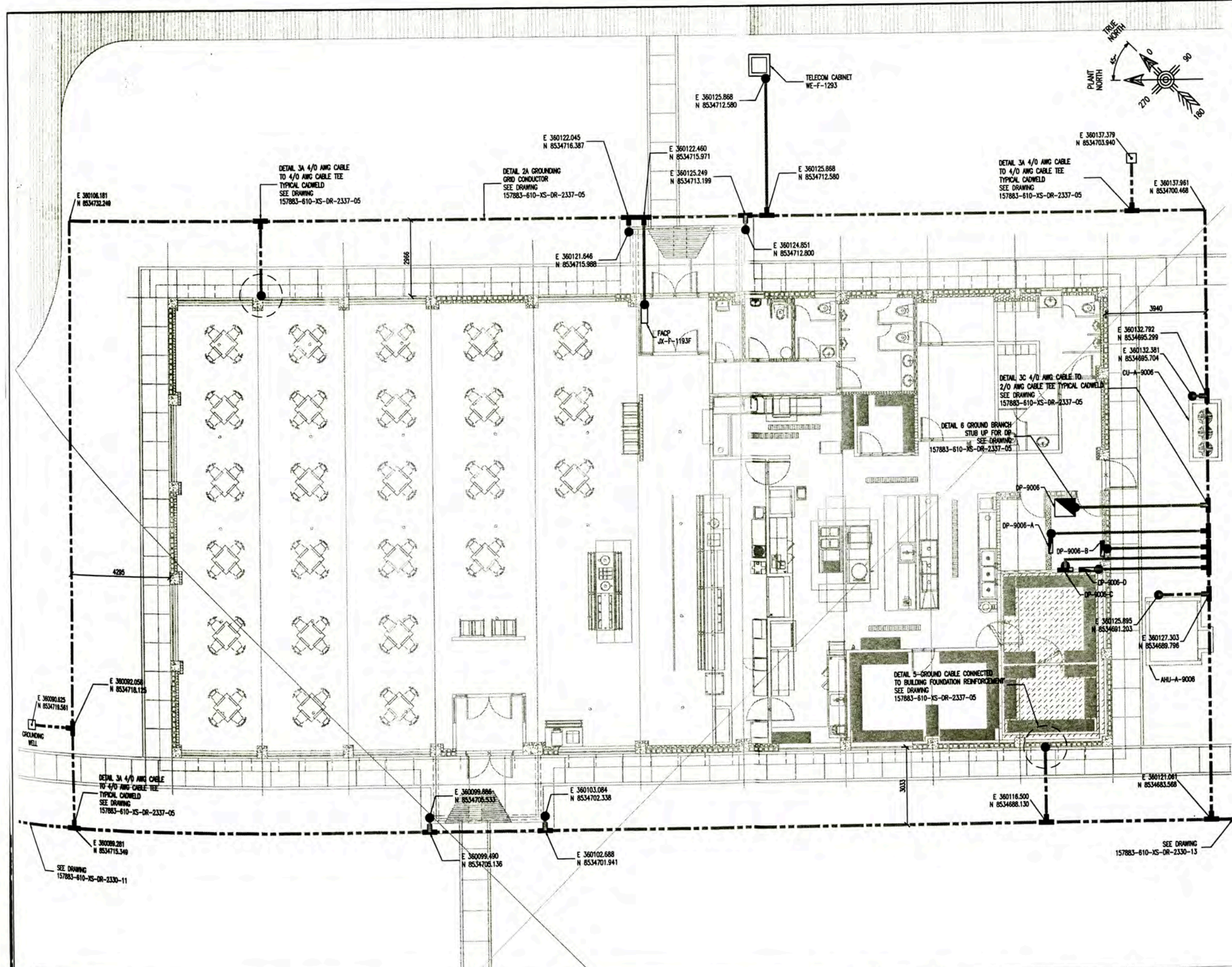


LEYENDA / LEGEND	
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO TIPO VERDE, 2/0 AWG
	2/0 AWG PVC GREEN SHEATHED Cu CABLE
	CABLE DE COBRE DESNUDO 4/0 AWG
	4/0 AWG BARE Cu CABLE SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL



0 ISSUED FOR CONSTRUCTION REVISIONS NO. DATE BY APPROVED BY		157883-610-XS-DR-2330-05 157883-610-XS-DR-2330-14 157883-610-XS-DR-2330-12 157883-610-XS-DR-2330-10 157883-610-XS-DR-2337-08 157883-610-XS-DR-2337-05	PCB - GROUNDING SYSTEM LAYOUT GROUNDING SYSTEM LAYOUT MANAGEMENT STAFF HOUSING A-9001 AND VP GUEST HOUSE A-9009 GROUNDING SYSTEM LAYOUT DINING / MESS HALL A-9008 GROUNDING SYSTEM LAYOUT ROTATION STAFF HOUSING A-9002 GROUNDING AND LIGHTNING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2 GROUNDING AND LIGHTNING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 1 OF 2	UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) PAMPA MELCHORITA	DRAWING NO: WPA DESIGNED BY: COU DATE: 01/07/09 SCALE: 1/200	PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT MEDICAL CLINIC A-9007 PROJECT NO: 1618 REVISION: 0 DRAWING NO: 157883-610-XS-DR-2330-11
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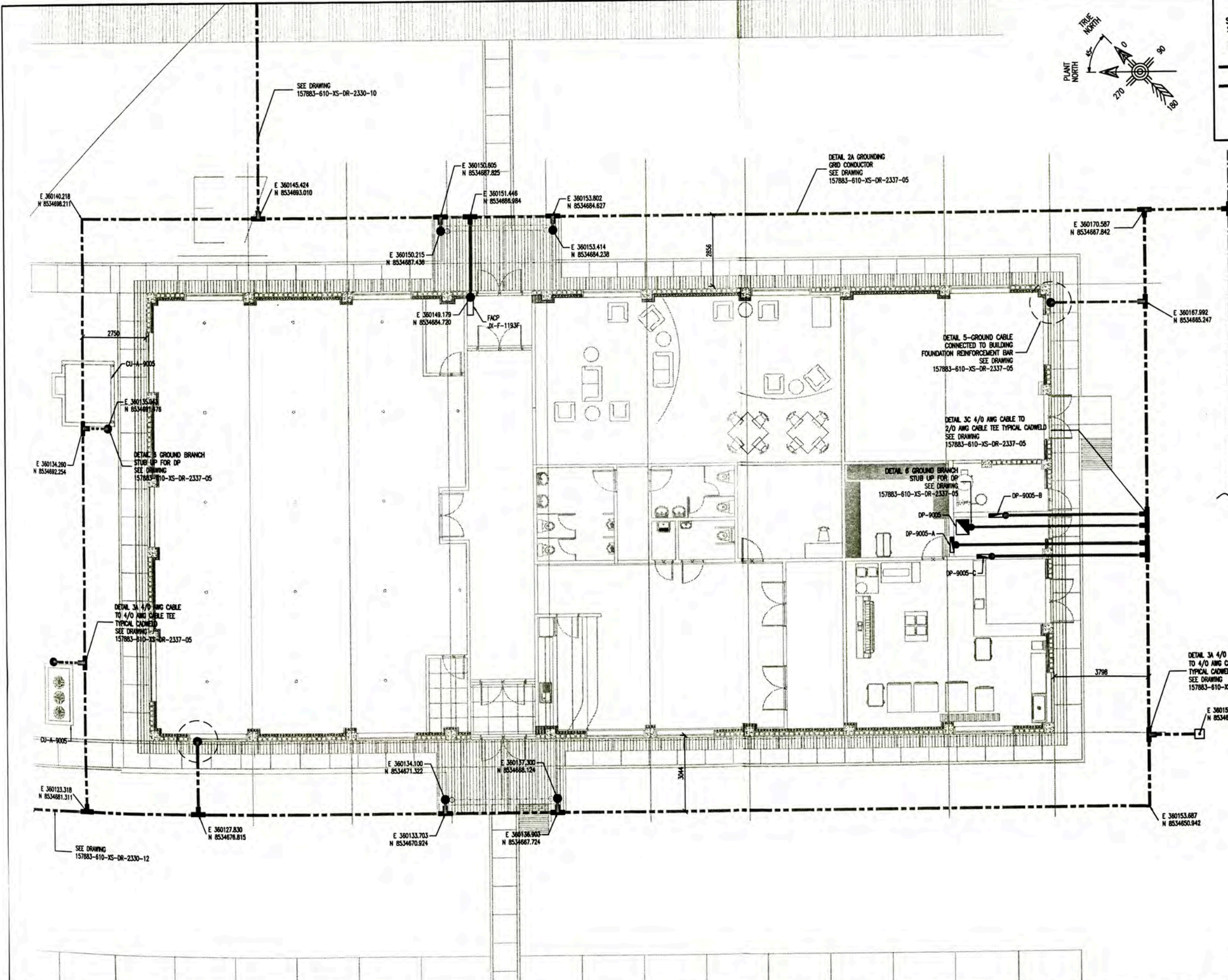
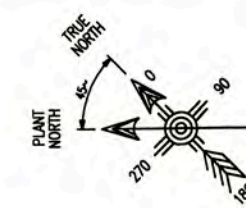
LEYENDA / LEGEND	
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO TW(VERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED Cu CABLE CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE Cu CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	POZO DE PUESTA A TIERRA SIN CAJA DE REGISTRO GROUNDING PITS WITHOUT ACCESS
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT DINING / MESS HALL A-9006	
PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PROJECT NO: 1618 SHEET NO: 0	
PROJECT: PERU LNG EXPORT PROJECT SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DRAWING BY: WPA DESIGNED BY: COU CHECKED BY: FTA DATE: 01/07/09	DRAWING NO: 157883-610-XS-DR-2330-12 SHEET NO: 12 OF 12
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LEYENDA / LEGEND

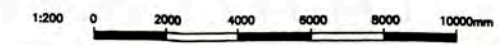
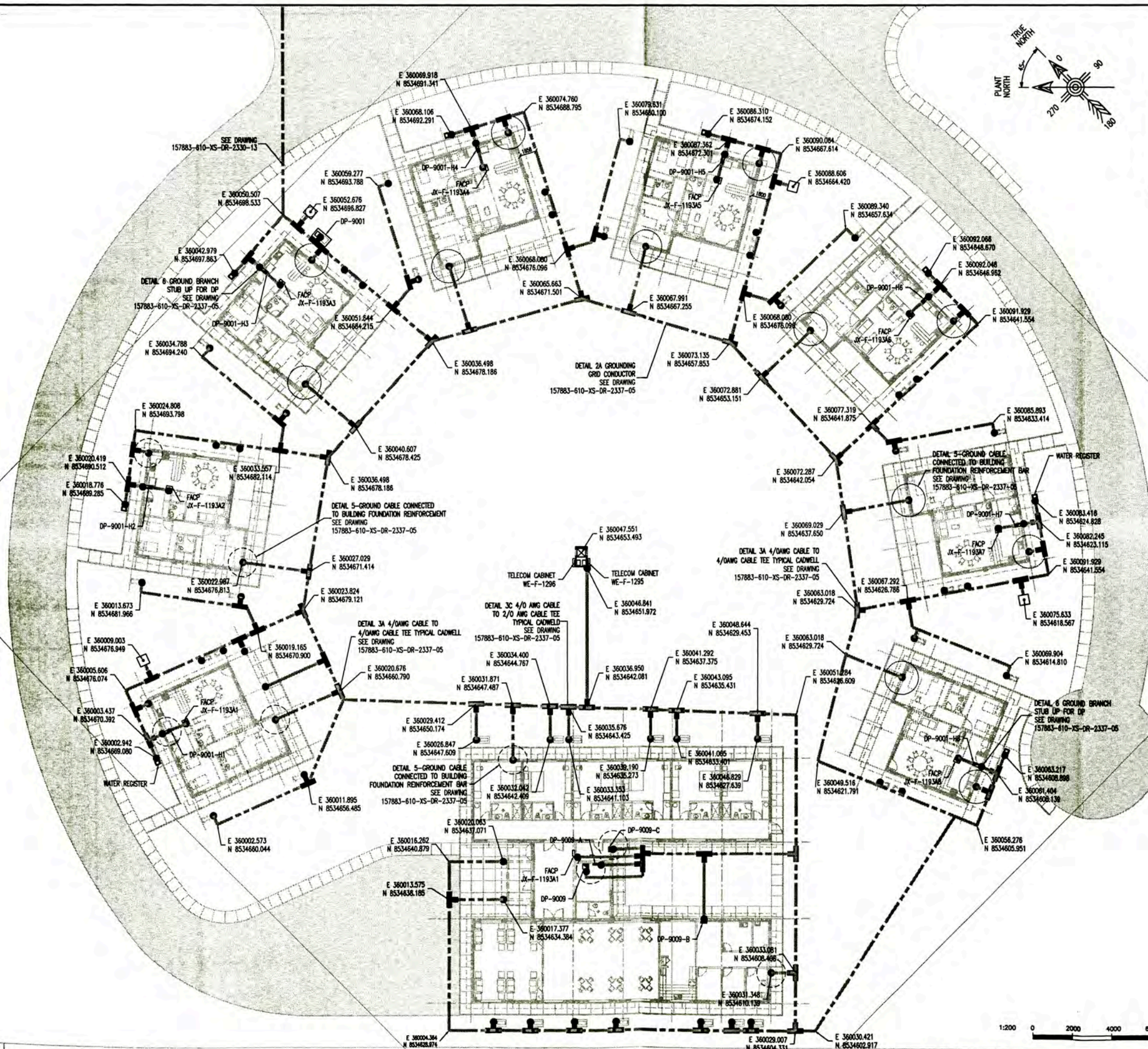
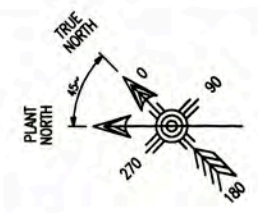
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO TIPO (VERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED Cu CABLE
	CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE Cu CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL



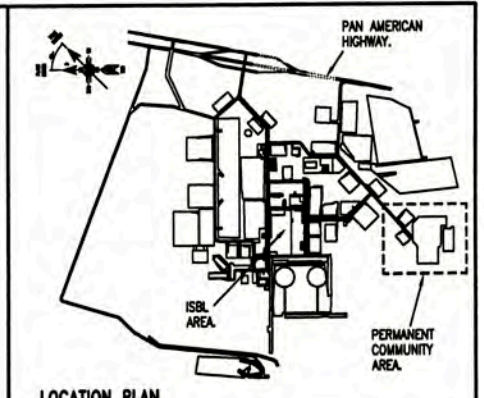
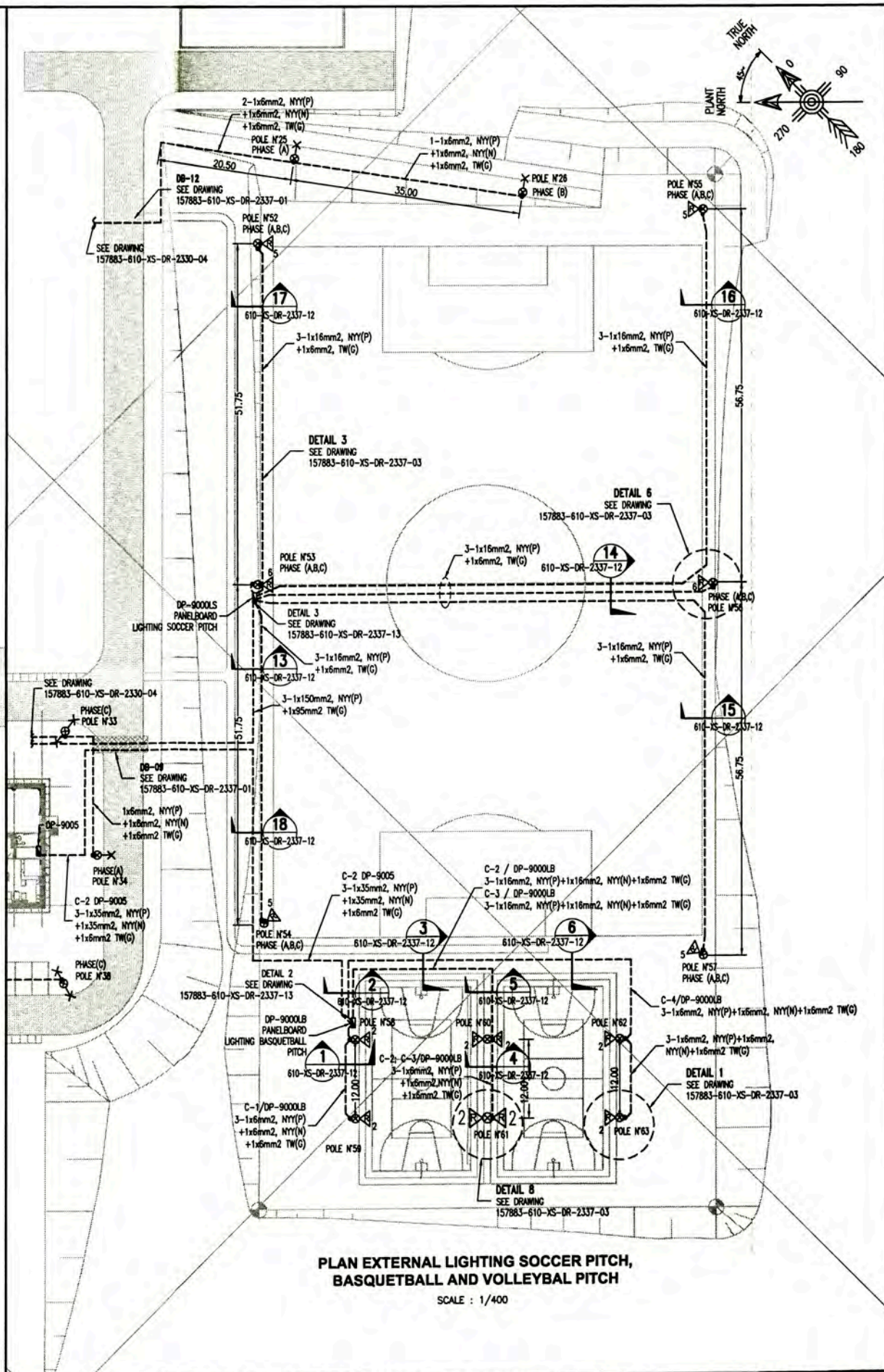
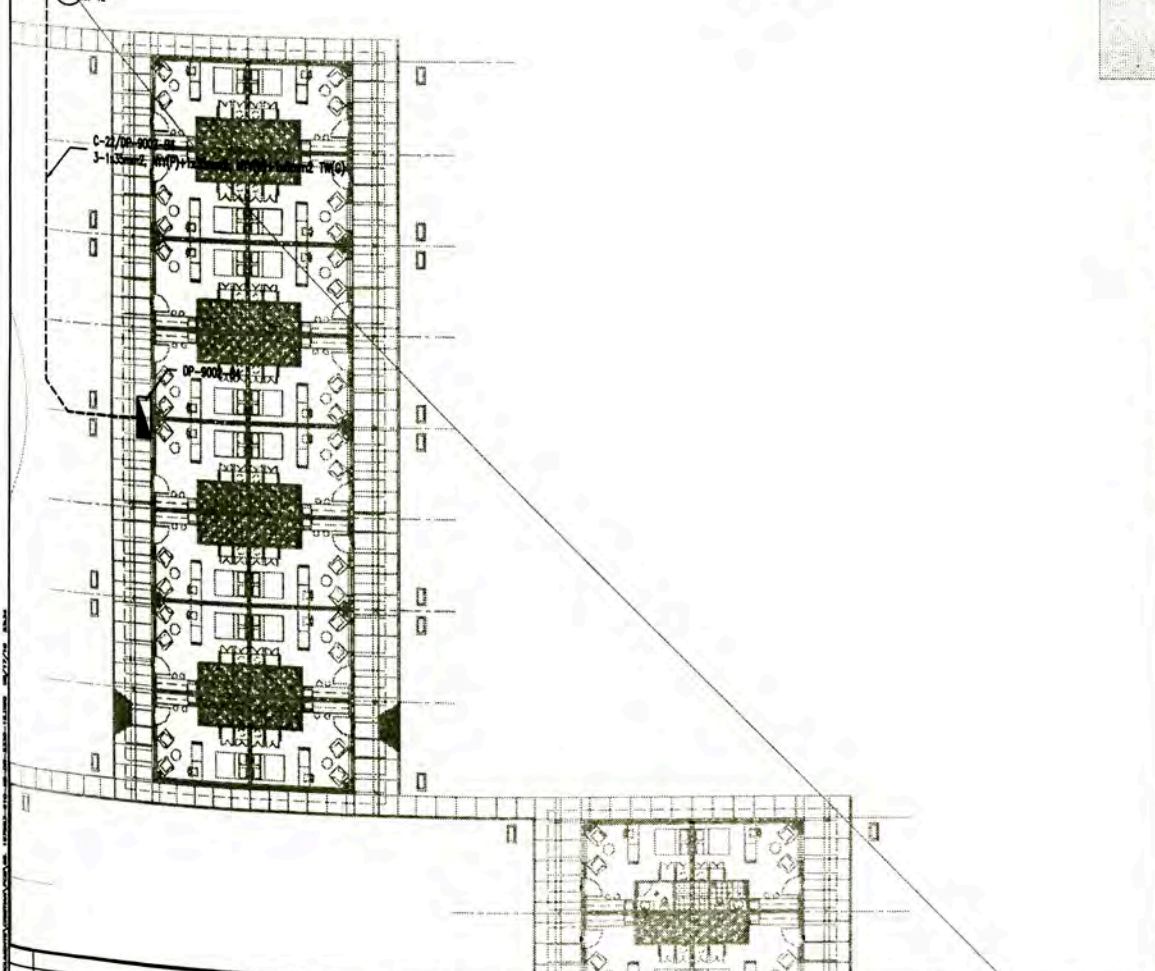
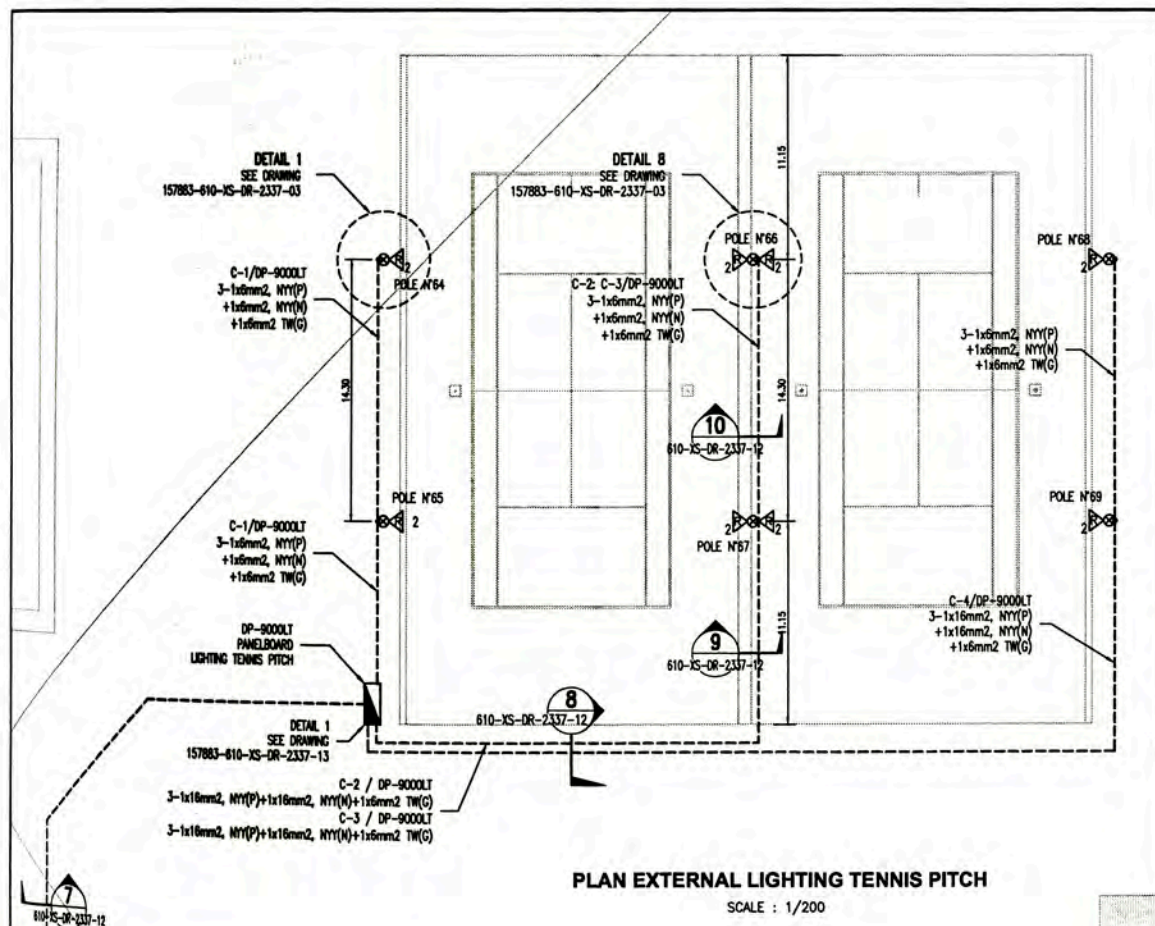
<p>ISSUED FOR CONSTRUCTION</p>		<p>18/10/09</p>		<p>MEJ</p>		<p>MEJ</p>		<p>MEJ</p>		<p>MEJ</p>	
<p>157883-610-XS-DR-2330-05</p>		<p>157883-610-XS-DR-2330-12</p>		<p>157883-610-XS-DR-2330-10</p>		<p>157883-610-XS-DR-2337-08</p>		<p>157883-610-XS-DR-2337-05</p>		<p>157883-610-XS-DR-2330-13</p>	
<p>POB - GROUNDING SYSTEM LAYOUT</p>		<p>GROUNDING SYSTEM LAYOUT DINING / MESS HALL A-900B</p>		<p>GROUNDING SYSTEM LAYOUT ROTATION STAFF HOUSING A-900Z</p>		<p>GROUNDING AND LIGHTING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2</p>		<p>GROUNDING AND LIGHTING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 1 OF 2</p>		<p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>	
<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)</p>		<p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>		<p>PAMPA MELCHORITA</p>		<p>1/200</p>		<p>01/07/09</p>		<p>PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT COMMUNITY RECREATION CENTRE A-900S</p>	
<p>DESIGNED BY: WPA</p>		<p>DESIGNED BY: COU</p>		<p>REVIEWED BY: FTA</p>		<p>APPROVED BY: JMG</p>		<p>REVISIONS: 0</p>		<p>157883-610-XS-DR-2330-13</p>	

LEYENDA / LEGEND

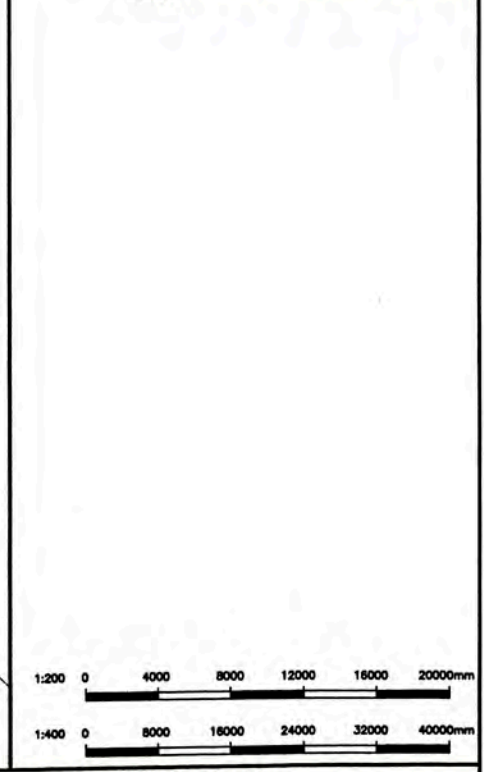
SIMBOLO / SYMBOL	DESCRIPCION / DESCRIPTION
	TABLERO / PANELBOARD
	CONDUCTOR AISLADO (INVERDE), 2/0 AWG 2/0 AWG PVC GREEN SHEATHED CU CABLE
	CABLE DE COBRE DESNUDO 4/0 AWG 4/0 AWG BARE CU CABLE
	SOLDADURA EXOTERMICA TIPO TEE TEE JOINT EXOTHERMIC WELD
	POZO DE PUESTA A TIERRA SIN CAJA DE REGISTRO GROUNDING PITS WITHOUT ACCESS
	POZO DE PUESTA A TIERRA CON TAPA DE REGISTRO GROUNDING ROD WITH INSPECTION WELL



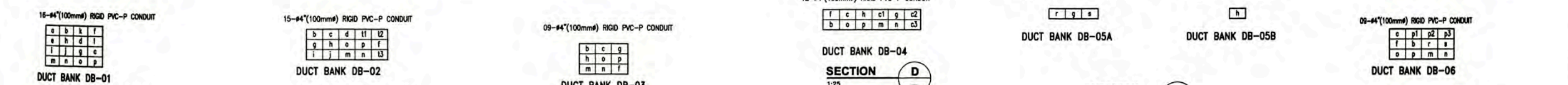
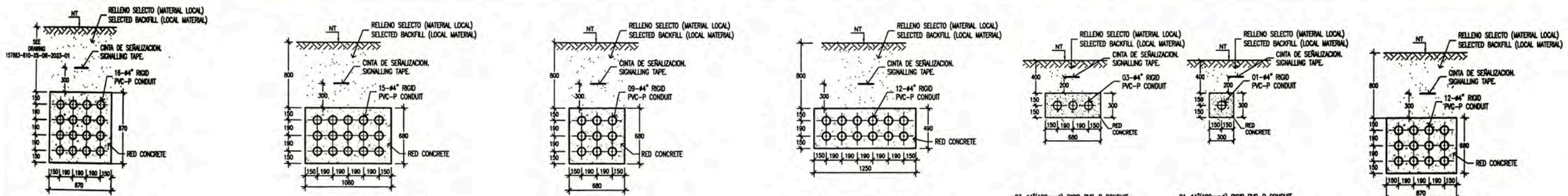
<p>ISSUED FOR CONSTRUCTION</p>		<p>157883-610-XS-DR-2330-05</p>		<p>PCB - GROUNDING SYSTEM LAYOUT</p>		<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)</p>		<p>PERMANENT COMMUNITY BUILDINGS GROUNDING SYSTEM LAYOUT</p>	
<p>16/10/09</p>		<p>157883-610-XS-DR-2330-13</p>		<p>COMMUNITY RECREATION CENTRE A-9009</p>		<p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p>		<p>MANAGEMENT STAFF HOUSING A-9001 AND VIP GUEST HOUSE A-9009</p>	
<p>157883-610-XS-DR-2337-05</p>		<p>157883-610-XS-DR-2337-05</p>		<p>GROUNDING AND LIGHTNING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 2 OF 2</p>		<p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p>		<p>DESIGNED BY: WPA DESIGNED BY: COU DATE: 01/07/09</p>	
<p>157883-610-XS-DR-2337-05</p>		<p>157883-610-XS-DR-2337-05</p>		<p>GROUNDING AND LIGHTNING SYSTEM INSTALLATION DETAILS AND NOTES - SHEET 1 OF 2</p>		<p>LOCATION: PAMPA MELCHORITA</p>		<p>REVISION: FTA APPROVED BY: JMG REVISION: 0</p>	
<p>157883-610-XS-DR-2330-14</p>		<p>157883-610-XS-DR-2330-14</p>		<p>157883-610-XS-DR-2330-14</p>		<p>157883-610-XS-DR-2330-14</p>		<p>157883-610-XS-DR-2330-14</p>	



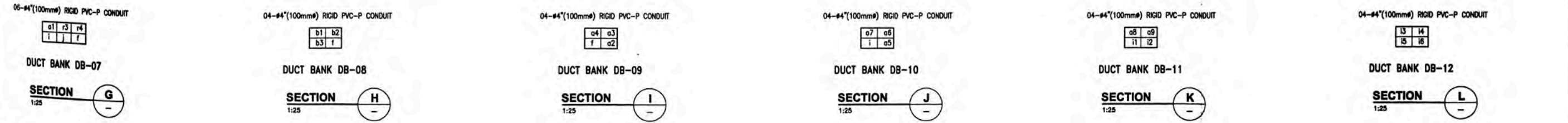
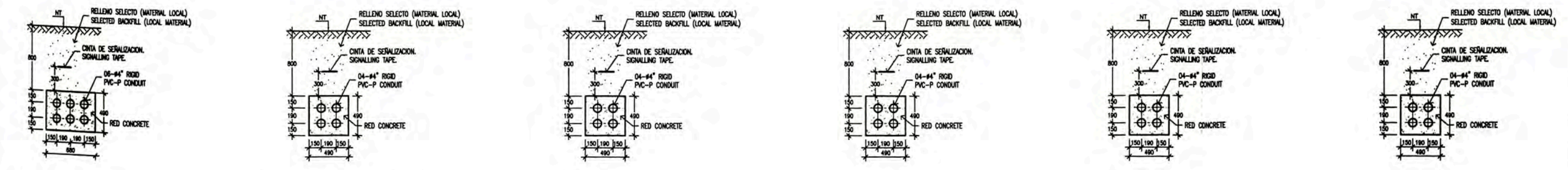
- NOTES:**
- 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON CRUCETA DE CONCRETO DE 1.5 METROS, CON 02 REFLECTORES ASIMÉTRICOS DE 400W, 220VAC, DE HALOGENURO METÁLICO, IP65, MODELO: RL40 E, 400W MH DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH WITH CROSSHEAD 1.5 METERS WITH 02 ASYMMETRIC REFLECTORS 400W, 220VAC, METAL HALIDE, IP65, MODEL: RL40 E, 400W MH JOSFEL.
 - 01 POSTE DE CONCRETO DE 20 METROS DE ALTURA; CON 03 CRUCETAS DE CONCRETO DE 2 METROS, CON 05 REFLECTORES ASIMÉTRICOS DE 1500W, 480VAC, DE HALOGENURO METÁLICO, IP65, MODELO: TSP 1500M GP24H 480 DF LPI - LITHONIA. TSP 1500M GP/H024H 480 DF LPI - LITHONIA.
 - 01 CONCRETE POLE, 20 METERS HIGH, WITH 03 CROSSHEAD 2 METERS, WITH 05 ASYMMETRIC REFLECTORS 1500W, 480 VAC, METAL HALIDE, IP65, MODEL: TSP 1500M GP24H 480 DF LPI - LITHONIA. TSP 1500M GP/H024H 480 DF LPI - LITHONIA.
 - 01 POSTE DE CONCRETO DE 20 METROS DE ALTURA; CON 03 CRUCETAS DE CONCRETO DE 2 METROS, CON 08 REFLECTORES ASIMÉTRICOS DE 1500W, 480VAC, DE HALOGENURO METÁLICO, IP65, MODELO: TSP 1500M GP24H 480 DF LPI - LITHONIA.
 - 01 CONCRETE POLE, 20 METERS HIGH, WITH 03 CROSSHEAD 2 METERS, WITH 08 ASYMMETRIC REFLECTORS 1500W, 480 VAC, METAL HALIDE, IP65, MODEL: TSP 1500M GP24H 480 DF LPI - LITHONIA.
 - 01 POSTE DE CONCRETO DE 11 METROS DE ALTURA; CON CRUCETA DE CONCRETO DE 1.5 METROS, CON 04 REFLECTORES ASIMÉTRICOS DE 400W, 220VAC, DE HALOGENURO METÁLICO, IP65, MODELO: RL40 E, 400W MH DE JOSFEL.
 - 01 CONCRETE POLE, 11 METERS HIGH WITH CROSSHEAD 1.5 METERS WITH 04 ASYMMETRIC REFLECTORS 400W, 220VAC, METAL HALIDE, IP65, MODEL: RL40 E, 400W MH JOSFEL.



UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PERMANENT COMMUNITY BUILDINGS EXTERIOR LIGHTING LAYOUT OF TENNIS PITCH, SOCCER PITCH, BASQUETBALL AND VOLLEYBALL PITCH	
PROJECT DIRECTOR	INGENIERA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION ENGINEER	PAMPA MELCHORITA	DESIGNED BY	WPA
SPECIALIST SUPERVISOR		DATE	01/07/09	DESIGNED BY	COU
		PROJECT NO.	1618	REVIEWED BY	FTA
		APPROVED BY	JMG	APPROVED BY	JMG
		SCALE	INDICATED	REVISION	0
ISSUED FOR CONSTRUCTION			DRAWING NO. 157883-610-XS-DR-2330-15		



- SECTION A**
 - a: RESERVE
 - b: RESERVE
 - c: ①; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
 - d: ②; 3-1x240mm2(P), NYY+1x240mm2(N), NYY.
 - e: ③; 3-1x150mm2(P), NYY+1x150mm2(N), NYY+1x95mm2(G), TW.
 - f: ④; 3-1x10mm2(P), NYY+1x10mm2(N), NYY+1x6mm2(G), TW.
 - g: ⑤; 2[3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - h: ⑥; 2[AWG THHN/THWN TYPE TC (3C)
 - i: ⑦; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
 - j: ⑧; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
 - k: ⑨; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - l: ⑩; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - m: ⑪; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - n: ⑫; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - o: ⑬; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - p: ⑭; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - q: ⑮; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - r: ⑯; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - s: ⑰; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
- SECTION B**
 - b: RESERVE
 - c: RESERVE
 - d: RESERVE
 - t1: RESERVE
 - t2: RESERVE
 - f: ①; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - g: ②; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
 - h: ③; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
 - i: ④; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - j: ⑤; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - k: ⑥; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - l: ⑦; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - m: ⑧; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - n: ⑨; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - o: ⑩; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - p: ⑪; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
 - t3: ⑫; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
- SECTION C**
 - b: RESERVE
 - c: RESERVE
 - d: RESERVE
 - t1: RESERVE
 - t2: RESERVE
 - f: ①; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - g: RESERVE
 - h: RESERVE
 - m: ②; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - n: ③; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - o: RESERVE
 - p: RESERVE
- SECTION D**
 - c: RESERVE
 - c1: RESERVE
 - c2: RESERVE
 - c3: RESERVE
 - b: ①; 3-1x150mm2(P), NYY, 1x95mm2(G), TW.
 - f: ②; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - g: ③; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
 - h: ④; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
 - m: ⑤; 3-1x240mm2(P), NYY+1x240mm2(N), NYY.
 - n: ⑥; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - o: ⑦; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - p: ⑧; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
- SECTION E**
 - s: RESERVE
 - g: ①; 3-1x150mm2(P), NYY+1x95mm2(G), TW. (FEEDER DP-9007-B)
 - h: ②; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW. (DP-9007)
 - r: ③; 3-1x35mm2(P), NYY+1x16mm2(G), TW. (DP-9005-B)
 - r: ④; 3-1x35mm2(P), NYY+1x16mm2(G), TW. (DP-9006-B)
- SECTION F**
 - c: RESERVE
 - p1: RESERVE
 - p2: RESERVE
 - p3: RESERVE
 - b: ①; 3-1x150mm2(P), NYY+1x95mm2(G), TW.
 - f: ②; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - m: ③; 3-1x240mm2(P), NYY+1x240mm2(N), NYY.
 - n: ④; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - o: ⑤; 3-1x185mm2(P), NYY+1x185mm2(N), NYY.
 - p: ⑥; 3-1x185mm2(P), NYY+1x185mm2(N), NYY+1x95mm2(G), TW.
 - r: ⑦; 3-1x35mm2(P), NYY+1x16mm2(G), TW.
 - s: ⑧; 3-1x35mm2(P), NYY+1x16mm2(G), TW.

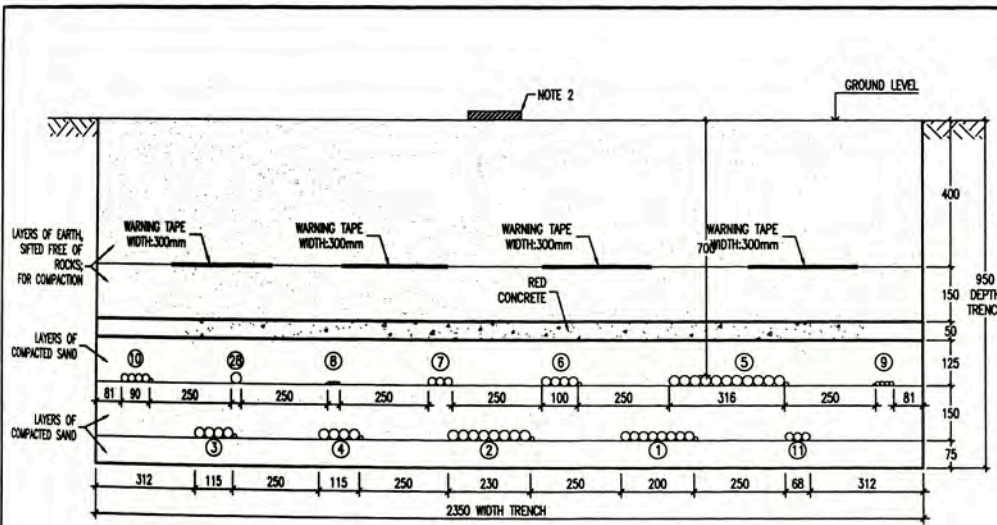


- SECTION G**
 - a1: RESERVE
 - r3: RESERVE
 - r4: RESERVE
 - f: ①; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
 - i: ②; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
 - j: ③; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
- SECTION H**
 - b1: RESERVE
 - b2: RESERVE
 - b3: ①; 3-1x16mm2, NYY(P)+1x16mm2, NYY(N)+1x6mm2 TW(G)
 - ②; 2[AWG THHN/THWN TYPE TC (3C)
 - f: ③; 3-1x10mm2(P), NYY+1x10mm2(N), NYY+1x6mm2(G), TW.
- SECTION I**
 - a3: RESERVE
 - a4: RESERVE
 - a5: RESERVE
 - a2: ①; 3-1x150mm2(P), NYY+1x95mm2(G), TW
 - f: ②; 3-1x35mm2(P), NYY+1x35mm2(N), NYY+1x10mm2(G), TW.
- SECTION J**
 - a7: RESERVE
 - a8: RESERVE
 - a5: RESERVE
 - i: ①; 3-1x240mm2(P), NYY+1x240mm2(N), NYY+1x95mm2(G), TW.
- SECTION K**
 - a8: RESERVE
 - a9: RESERVE
 - 11: ①; 3-1x18mm2, NYY(P)+1x18mm2, NYY(N)+1x8mm2 TW(G)
 - 12: ②; 2[AWG THHN/THWN TYPE TC (3C)
- SECTION L**
 - 13: RESERVE
 - 14: RESERVE
 - 15: RESERVE
 - 16: ①; 2-1x8mm2, NYY(P)+1x8mm2, NYY(N)+1x6mm2, TW(G)

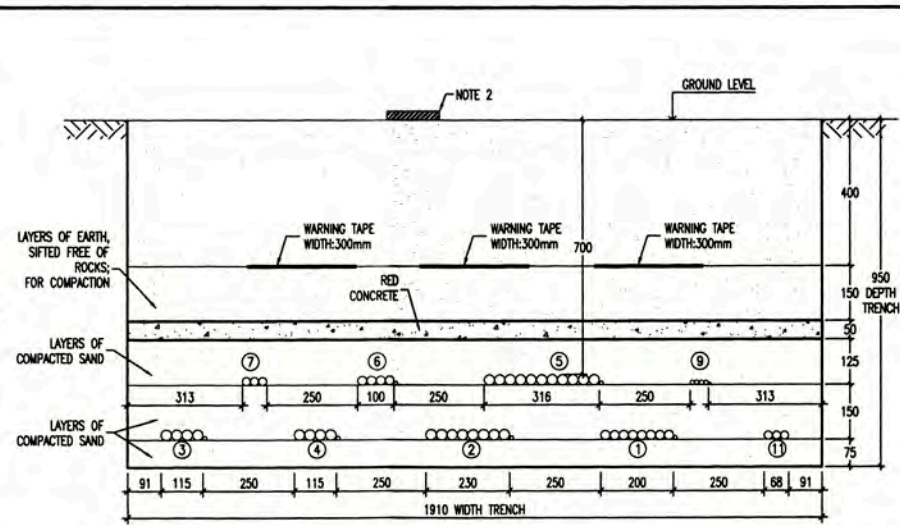
NOTA / NOTE

- SE INSTALARAN CAMPANAS DE PVC EN TODOS LOS DUCTOS
PVC BELLS WILL BE INSTALLED FOR ALL DUCT BANKS
- REFERENCIA: PLANO 157883-610-XS-DR-2330-03
REFERENCE: DRAWINGS 157883-610-XS-DR-2330-03 LOW VOLTAGE POWER LAYOUT
- DUCT SHALL BE LAID ON A SLIGHT GRADIENT 0.1% TO FACILITATE DRAINAGE
- EL ESPACIAMIENTO ENTRE CONDUITS DE PVC-P ESTA DE ACUERDO AL C.N.E. (SECCION 030-004, DIAGRAMA B4-2)
THE SPACING FOR PVC-P CONDUIT IS ACCORDING WITH C.N.E. (SECTION 030-004, DIAGRAM B4-2)

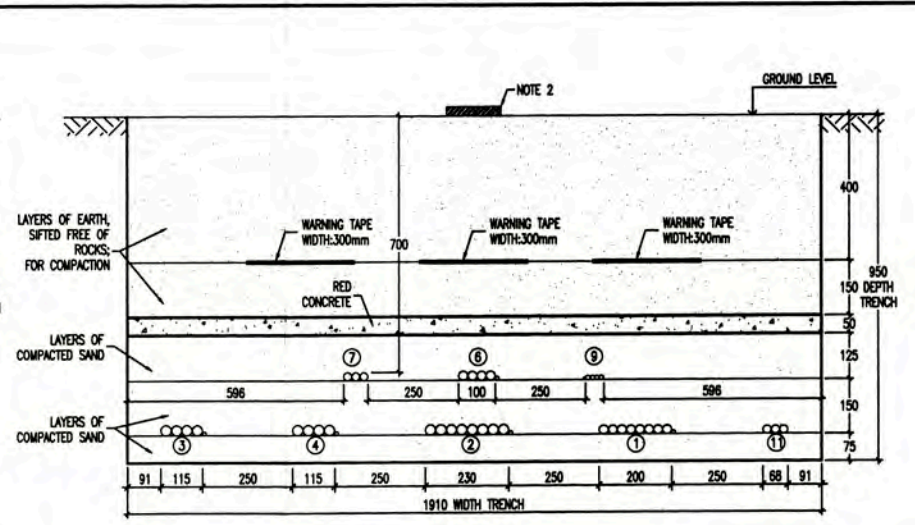
157883-610-XS-DR-2033-01		SUBSTATION SS-8000 ELECTRICAL EQUIPMENT LAYOUT			UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		DESIGNO PLANO 7	
157883-610-XS-DR-2031-03		SUBSTATION SS-8000 GROUNDING SYSTEM AND LIGHTNING PROTECTION LAYOUT			PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		DISEÑADO POR: WPA	
157883-610-XS-DR-2330-05		GROUNDING SYSTEM LAYOUT			INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		DISEÑADO POR: COU	
157883-610-XS-DR-2330-04		EXTERIOR LIGHTING LAYOUT			PAMPA MELCHORITA		REVISADO POR: FTA	
157883-610-XS-DR-2330-03		LOW VOLTAGE POWER LAYOUT			157883-610-XS-DR-2337-01		APROBADO POR: JMG	
ISSUED FOR CONSTRUCTION		11/11/09		APPROVED BY: JMG		REVISION: 0		
REVISION: 0		DATE: 11/11/09		PROJECT NO: 1618		DRAWING NO: 157883-610-XS-DR-2337-01		



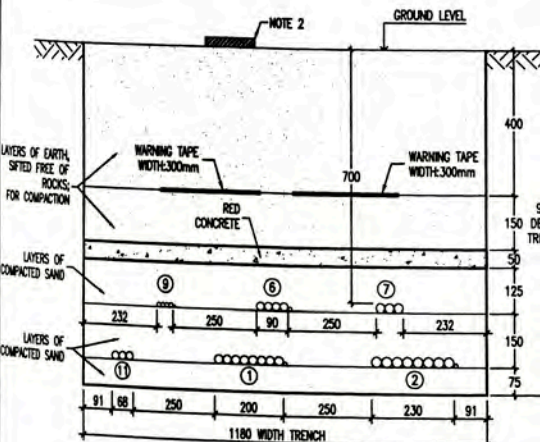
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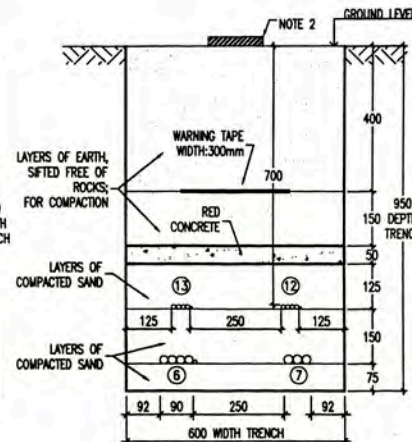
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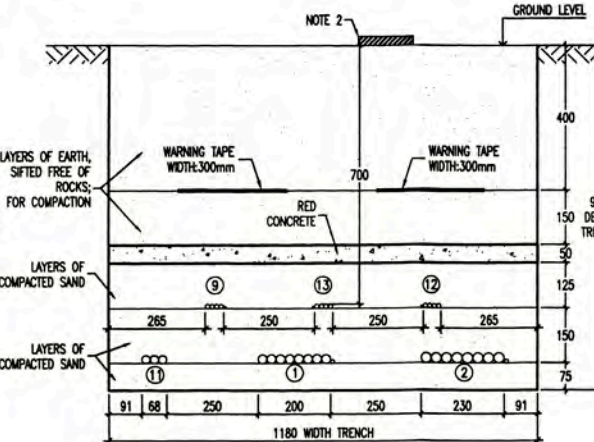
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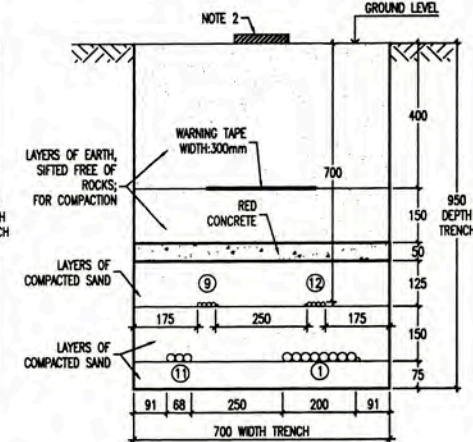
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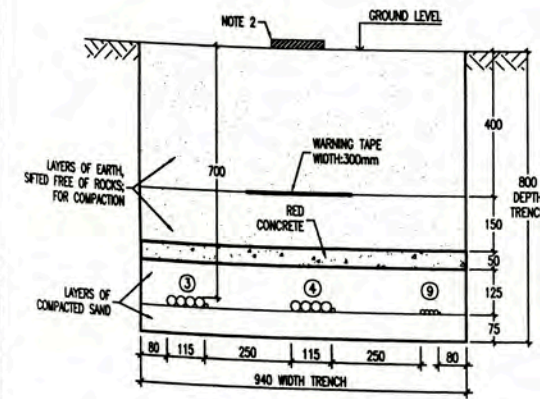
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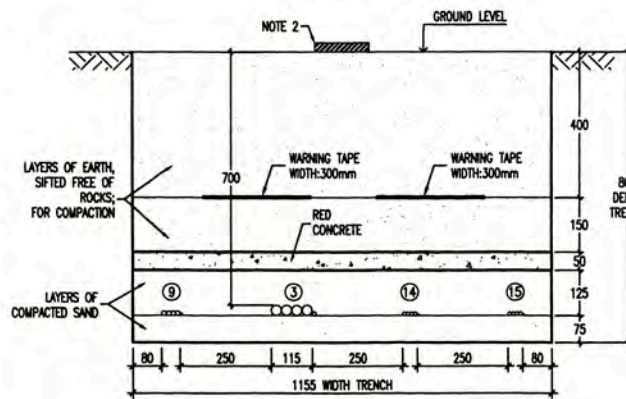
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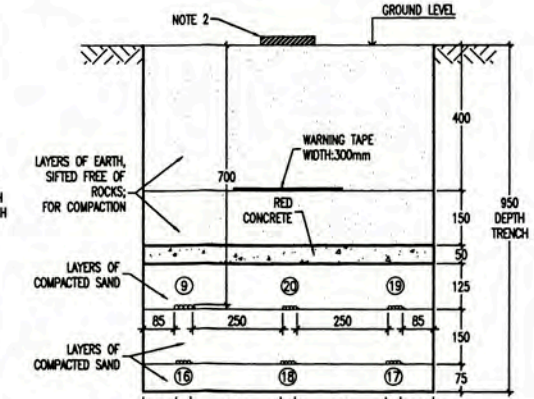
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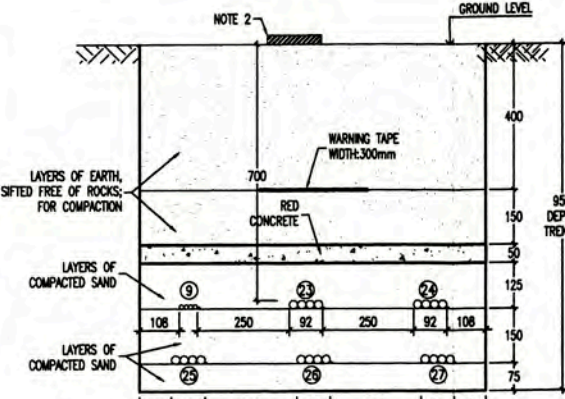
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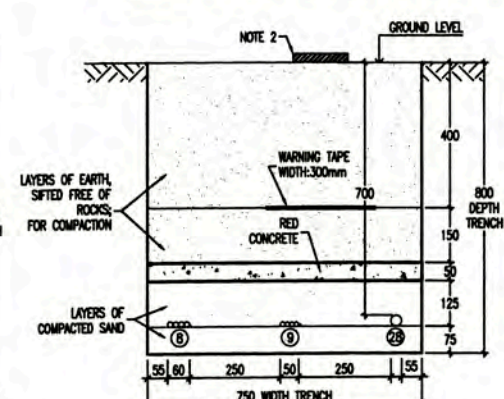
SECTION 9
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SECTION 10
1:10



SECTION 11
1:10

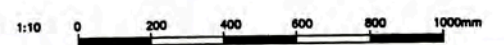


SECTION 12
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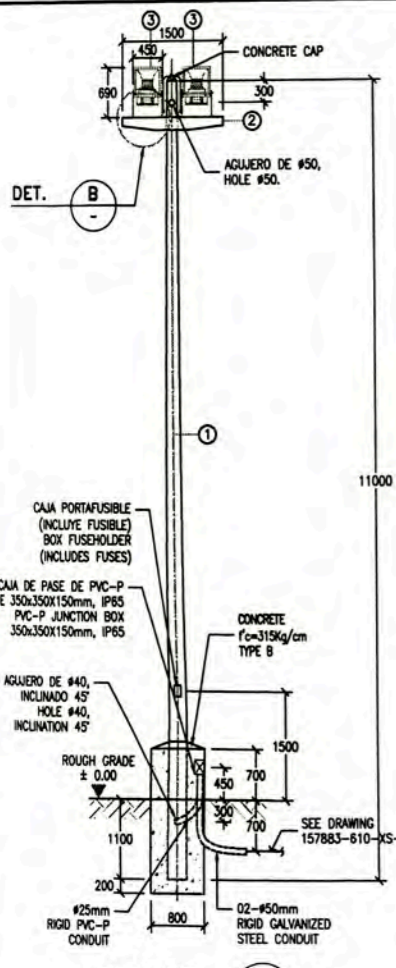
NOTA/NOTE:

- REFERENCIA: PLANO 157883-610-XS-DR-2330-03
REFERENCIA: DIBUJO 157883-610-XS-DR-2330-03 LOW VOLTAGE POWER LAYOUT
- MARCADORES RUTA DE CABLE EN INTERVALOS DE 50 METROS Y CADA CAMBIO DE DIRECCION.
CABLE ROUTE MARKER FOR INTERVALS OF 50 METERS AND EVERY CHANGE OF DIRECTION.CHANGE OF DIRECTION.
- EL ESPESOR DE LA CAPA DE ARENA FINA POR ENCIMA Y POR ABAJO DEL CABLE SERANMINIMO DE 3"(75mm).
THE THICKNESS OF THE LAYER OF FINE SAND ABOVE AND BELOW THE CABLE WILL BE AT LEAST 3 INCHES (75mm).
- EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0004
THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0004
- EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
- CALCULO DE LA SECCION DE LOS CABLES EN DOCUMENTO 157883-610-XS-CC-0004
THE CABLE SIZING CALCULATIONS IS SHOW IN 157883-610-XS-CC-0004
- THE FEEDER DP-9001-H3 SHALL BE NOT IN SECTIONS
- FEEDED CABLE SIZE FOR LIGHTING CIRCUITS SEE DRAWING 157883-610-XS-DR-2330-04

ELECTRICAL CABLES LIST	
①	FEEDER DP-9005 : 2(3-1x185mm ² (P), MY+1x185mm ² (N), MY+1x85mm ² (G), TW
②	FEEDER DP-9008 : 2(3-1x240mm ² (P), MY+1x240mm ² (N), MY+1x85mm ² (G), TW
③	FEEDER DP-9008 : 3-1x240mm ² (P), MY+1x240mm ² (N), MY+1x85mm ² (G), TW
④	FEEDER DP-9001 : 3-1x240mm ² (P), MY+1x240mm ² (N), MY+1x85mm ² (G), TW
⑤	FEEDER DP-9002 : 3(3-1x240mm ² (P), MY+1x240mm ² (N), MY+1x85mm ² (G), TW
⑥	FEEDER DP-9001 : 3-1x185mm ² (P), MY+1x185mm ² (N), MY+1x85mm ² (G), TW
⑦	FEEDER DP-9007 : 3-1x150mm ² (P), MY+1x85mm ² (G), TW
⑧	FEEDER DP-9008 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑨	FEEDER LIGHTING : NOTE 8
⑩	FEEDER DP-9004 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑪	FEEDER DP-9005 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑫	FEEDER DP-9008 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑬	FEEDER DP-9001 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑭	FEEDER DP-9001-H1 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑮	FEEDER DP-9001-H2 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑯	FEEDER DP-9001-H3 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑰	FEEDER DP-9001-H4 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑱	FEEDER DP-9001-H5 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑲	FEEDER DP-9001-H6 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
⑳	FEEDER DP-9001-H7 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉑	FEEDER DP-9002-01 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉒	FEEDER DP-9002-02 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉓	FEEDER DP-9002-03 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉔	FEEDER DP-9002-04 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉕	FEEDER DP-9002-05 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉖	FEEDER DP-9002-06 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉗	FEEDER DP-9002-07 : 3-1x150mm ² (P), MY+1x150mm ² (N), MY+1x85mm ² (G), TW
㉘	FEEDER LIFT STATION : 2400 THRM/THRM TYPE TC (3C)

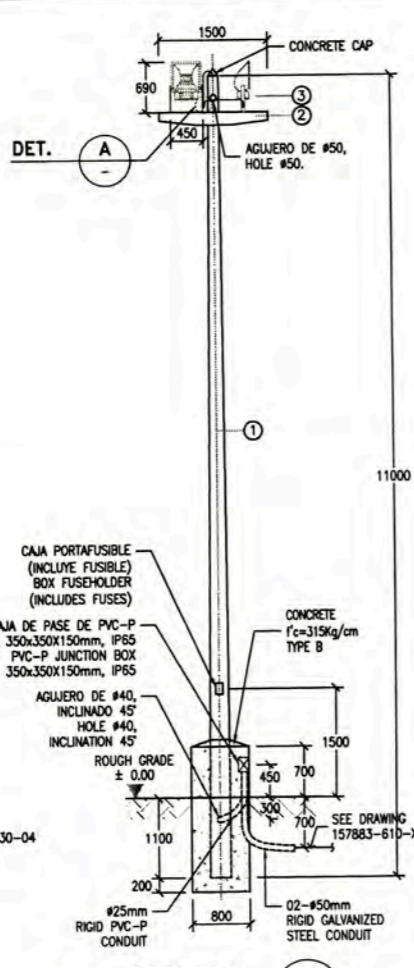


157883-610-XS-SH-0002 157883-610-XS-DR-2330-02 157883-610-XS-DR-2330-03 157883-610-XS-DR-2330-04 157883-610-XS-DR-2330-03	ELECTRICAL CABLE SCHEDULE ELECTRICAL BLOCK DIAGRAM GROUNDING SYSTEM LAYOUT PLANT GENERAL OUTDOOR LIGHTING DISTRIBUTION PLANT GENERAL CABLE LOW VOLTAGE DISTRIBUTION	UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING) PAMPA MELCHORITA	PERMANENT COMMUNITY BUILDINGS SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT WPA COU FTA JMG 157883-610-XS-DR-2337-02
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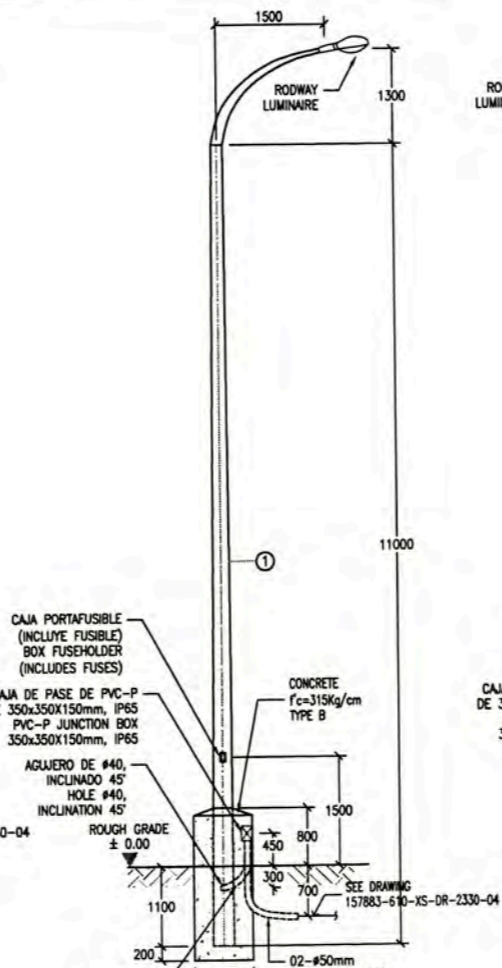
DETALLE 1
DETAIL

TWO FLOODLIGHTS MOUNTED ON CONCRETE POLE
SCALE 1:50



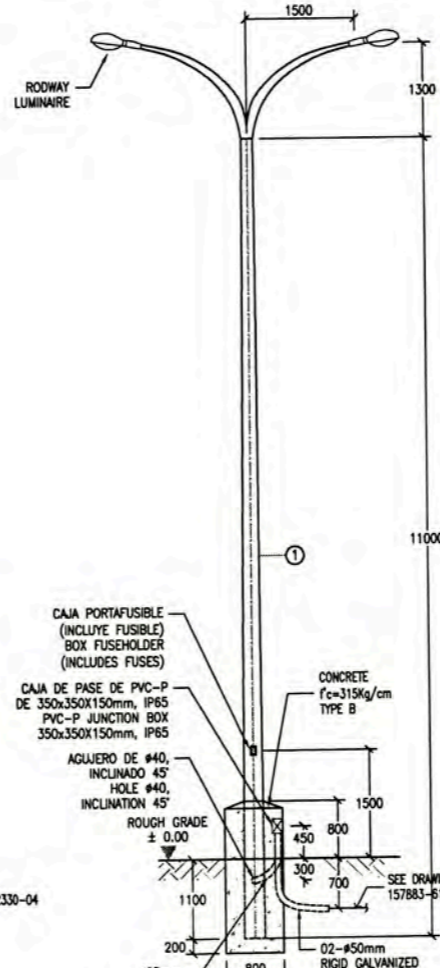
DETALLE 2
DETAIL

TWO FLOODLIGHTS MOUNTED ON CONCRETE POLE
SCALE 1:50



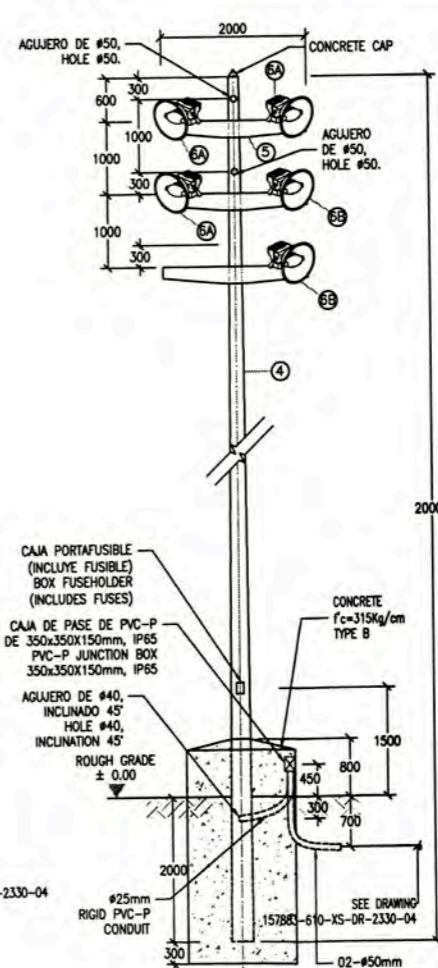
DETALLE 4
DETAIL

SINGLE LUMINAIRE MOUNTED ON CONCRETE POLE
SCALE 1:50



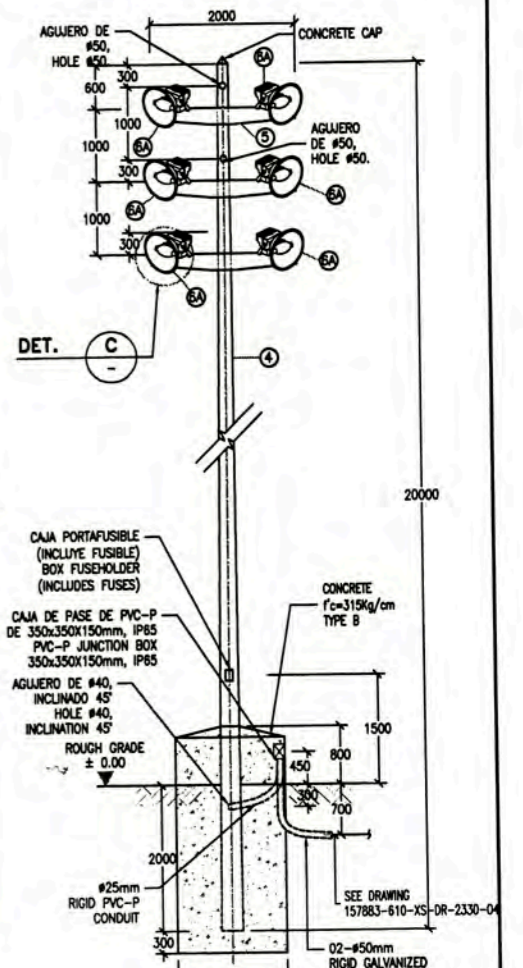
DETALLE 5
DETAIL

TWO LUMINAIRES MOUNTED ON CONCRETE POLE
SCALE 1:50



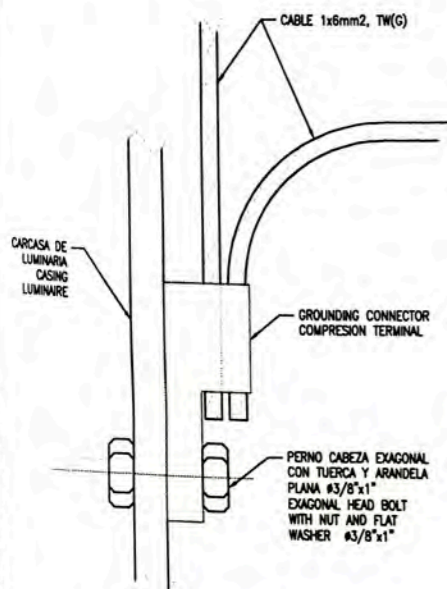
DETALLE 6
DETAIL

FIVE FLOODLIGHTS MOUNTED ON CONCRETE POLE
SCALE 1:50



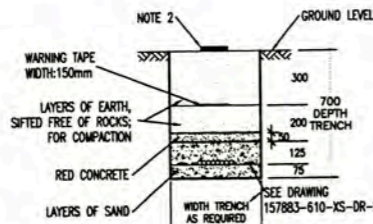
DETALLE 7
DETAIL

SIX FLOODLIGHTS MOUNTED ON CONCRETE POLE
SCALE 1:50



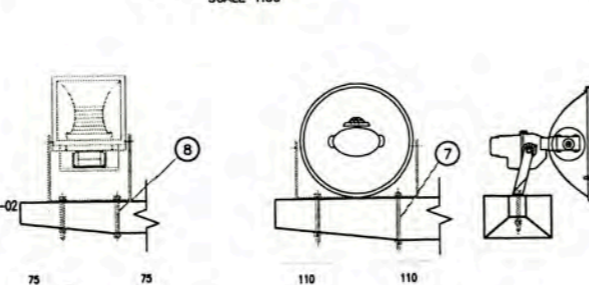
DETALLE A
DETAIL

SCALE 1:5



DETALLE 3
DETAIL

INSTALACION DE CABLES NYY
NYY TYPE CABLE INSTALLATION
SCALE 1:20



DETALLE B
DETAIL

SCALE 1:5

DETALLE C
DETAIL

SCALE 1:5

CANT/QUANT	DESCRIPCION (DESCRIPTION)	SIMBOLO (SYMBOL)
2	LUMINARIA MILENUM-150, JOSFEL/LUMINAIRE MILENUM-150, JOSFEL	
1	PASTORAL DOBLE PARABOLO DE CONCRETO/ACCESSORY DOUBLE PARABOLIC CONCRETE	
1	CAJA PORTAFUSIBLE/BOX FUSEHOLDER	
14m	CABLE NMT - 2-1x4mm ²	
4m	CABLE NYY - 2-1x6mm ²	
1	PVC-P JUNCTION BOX 350x350x150mm, IP65	
1	POSTE C.A.C. 11.00/200/120/285 / POLE C.A.C. 11.00/200/120/285	

CANT/QUANT	DESCRIPCION (DESCRIPTION)	SIMBOLO (SYMBOL)
1	LUMINARIA MILENUM-150, JOSFEL/LUMINAIRE MILENUM-150, JOSFEL	
1	PASTORAL SIMPLE PARABOLO DE CONCRETO/ACCESSORY SINGLE PARABOLIC CONCRETE	
1	CAJA PORTAFUSIBLE/BOX FUSEHOLDER	
12m	CABLE NMT - 2-1x4mm ²	
4m	CABLE NYY - 2-1x6mm ²	
1	PVC-P JUNCTION BOX 350x350x150mm, IP65	
1	POSTE C.A.C. 11.00/200/120/285 / POLE C.A.C. 11.00/200/120/285	

CLAVE/KEY	DESCRIPCION/DESCRIPTION	CANTIDAD/QUANTITY
①	POSTE DE CONCRETO ARMADO CENTRIFUGADO, 11m/200Kg/120/285 REINFORCED CONCRETE POLE, 11m/200Kg/120/285	1 UND
②	CRUCETA DE CONCRETO SIMETRICA DE 1,50m DE LARGO CROSSHEAD SYMMETRICAL CONCRETE, 1.50m LONG	1 UND
③	REFLECTOR HERMETICO, ASIMETRICO, HAZ ANCHO, CON EQUIPO Y LAMPARA DE HALOGENURO METALICO DE 400W. SIMILAR AL MODELO RL-40E (JOSFEL) REFLECTOR AIRTIGHT, ASYMMETRICAL, LIGHT WIDTH, WITH METAL HALIDE LAMP OF 400W. SIMILAR TO THE MODEL RL-40E (JOSFEL)	2 UND
④	POSTE DE CONCRETO ARMADO CENTRIFUGADO, 20m/700/270/570 REINFORCED CONCRETE POLE, 20m/700/270/570	1 UND
⑤	CRUCETA DE CONCRETO SIMETRICA DE 2,00m DE LARGO CROSSHEAD SYMMETRICAL CONCRETE, 2.00m LONG	3 UND
⑥A	REFLECTOR HERMETICO, ASIMETRICO, HAZ ANCHO, CON EQUIPO Y LAMPARA DE HALOGENURO METALICO DE 1500W. SIMILAR AL MODELO TSP 1500M GP24N 240 DF LPI (LITHONIA) REFLECTOR AIRTIGHT, ASYMMETRICAL, LIGHT WIDTH, WITH METAL HALIDE LAMP OF 1500W. SIMILAR TO THE MODEL TSP 1500M GP24N 240 DF LPI (LITHONIA)	----
⑥B	REFLECTOR HERMETICO, ASIMETRICO, HAZ ANCHO, CON EQUIPO Y LAMPARA DE HALOGENURO METALICO DE 1500W. SIMILAR AL MODELO TSP 1500M GP/HD24W 240 DF LPI (LITHONIA) REFLECTOR AIRTIGHT, ASYMMETRICAL, LIGHT WIDTH, WITH METAL HALIDE LAMP OF 1500W. SIMILAR TO THE MODEL TSP 1500M GP/HD24W 240 DF LPI (LITHONIA)	----
⑦	ESPARRAGO C/TUERCA Y ARANDELA PLANA #1/2"x8" STUD WITH NUT AND FLAT WASHER #1/2"x8"	2 UND
⑧	ESPARRAGO C/TUERCA Y ARANDELA PLANA #3/8"x6" STUD WITH NUT AND FLAT WASHER #3/8"x6"	2 UND

NOTAS/NOTES:

- COIL ADEQUATE LENGTH OF CONDUCTORS TO EXTEND MINIMUM 450 OUT OF HANHOLE
- MARCADORES RUTA DE CABLE EN INTERVALOS DE 50 METROS Y CADA CAMBIO DE DIRECCION. CABLE ROUTE MARKER, FOR INTERVALS OF 50 METERS AND EVERY CHANGE OF DIRECTION.
- ALL MOUNTING HARDWARE SHALL BE "HOT DIP" GALVANIZED STEEL.
- VER LOS EQUIPOS DE ILUMINACION EN HOJA DE DATOS 157883-610-XS-DS-0028 LIGHTING EQUIPMENT, IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0028
- VER LOS POSTES DE CONCRETO EN HOJA DE DATOS 157883-610-XS-DS-0034 CONCRETE POLES, IN ACCORDING TO DATA SHEET 157883-610-XS-DS-0034

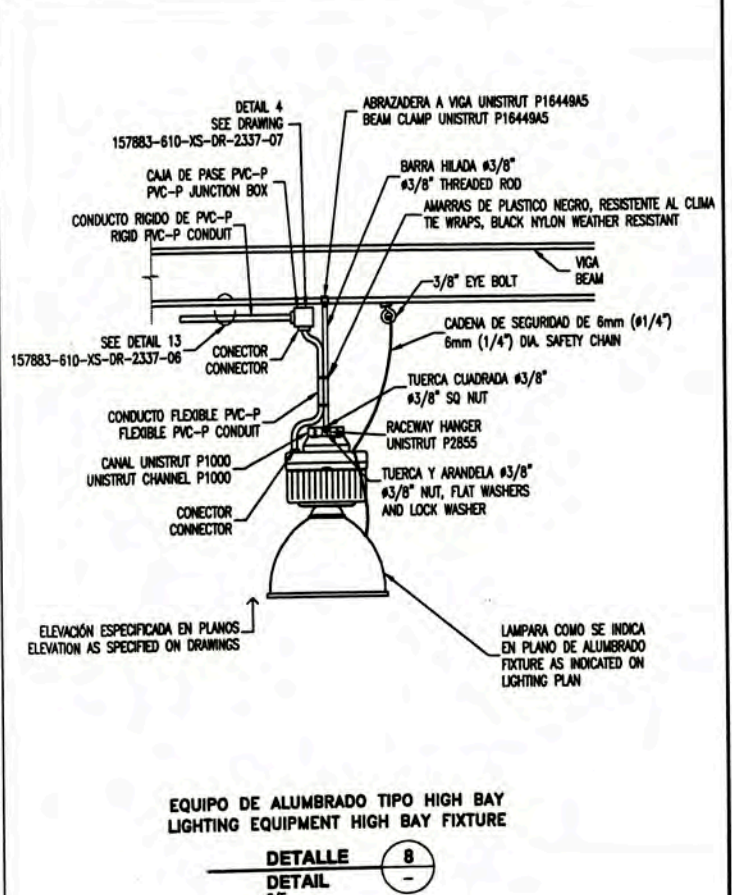
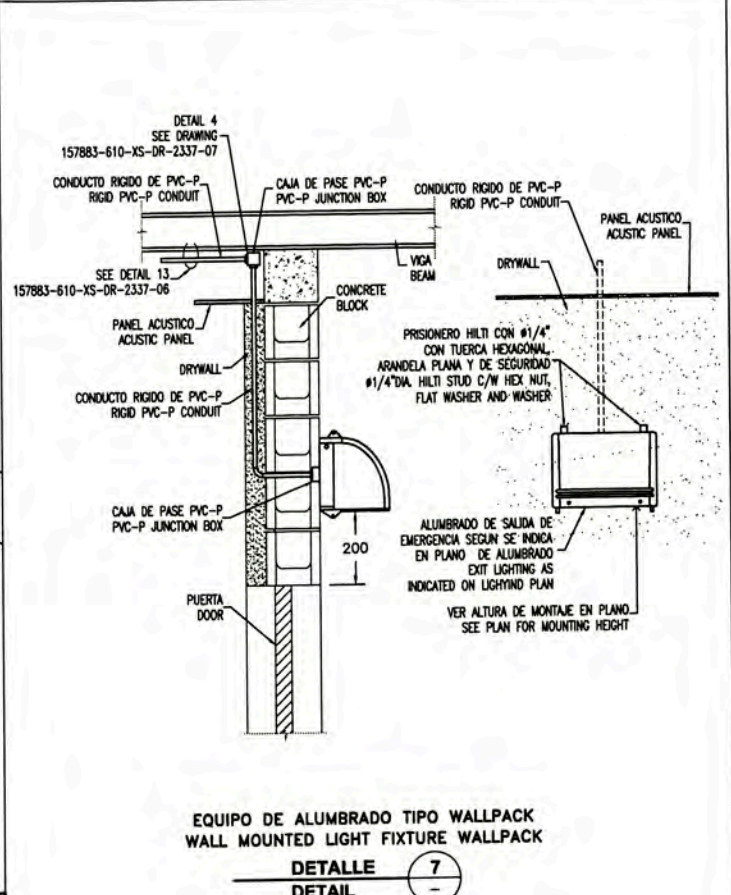
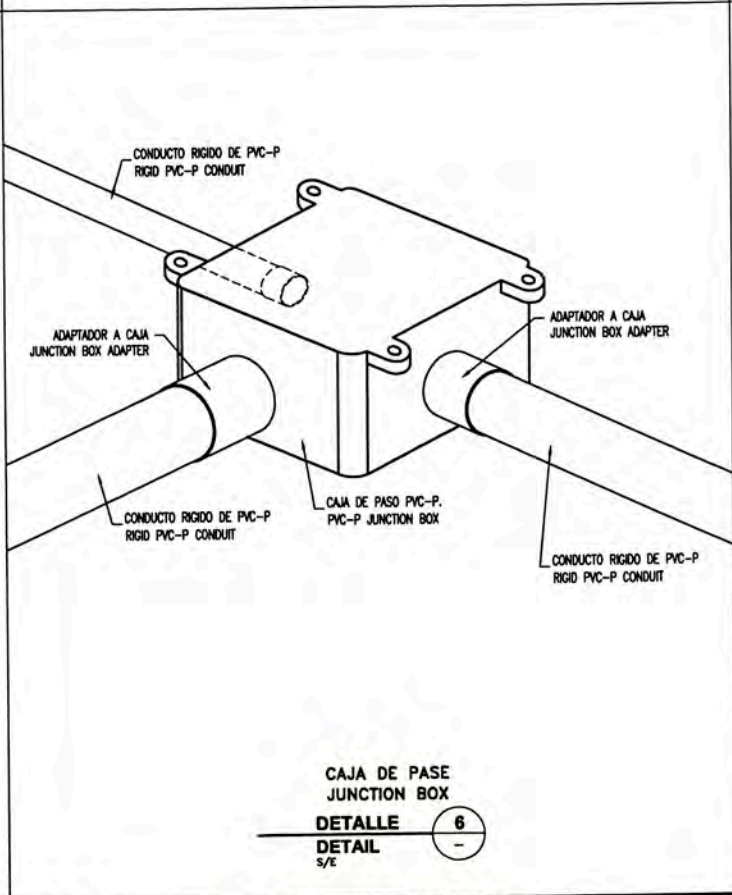
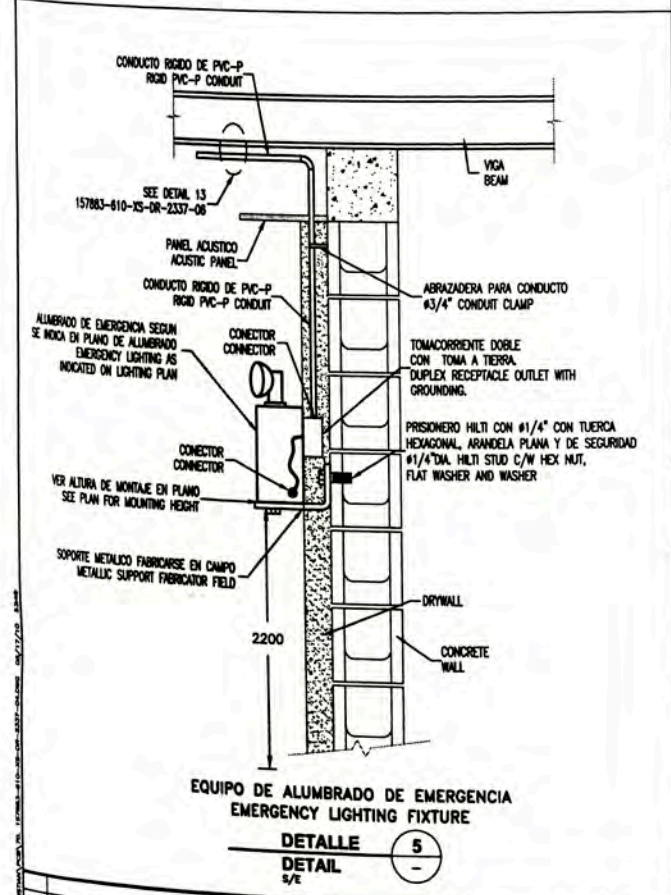
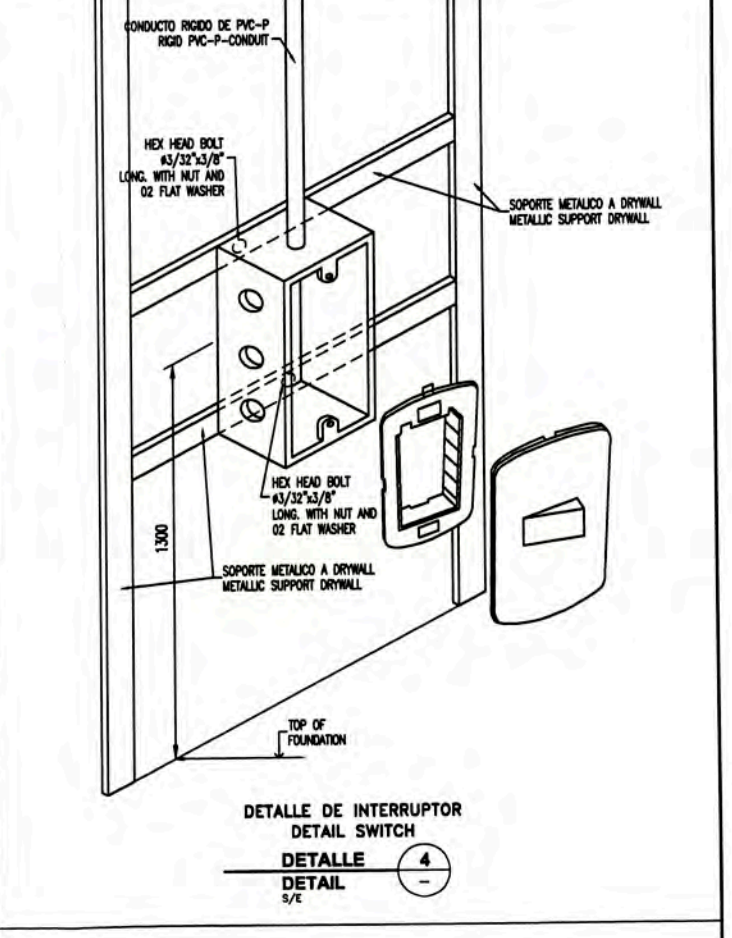
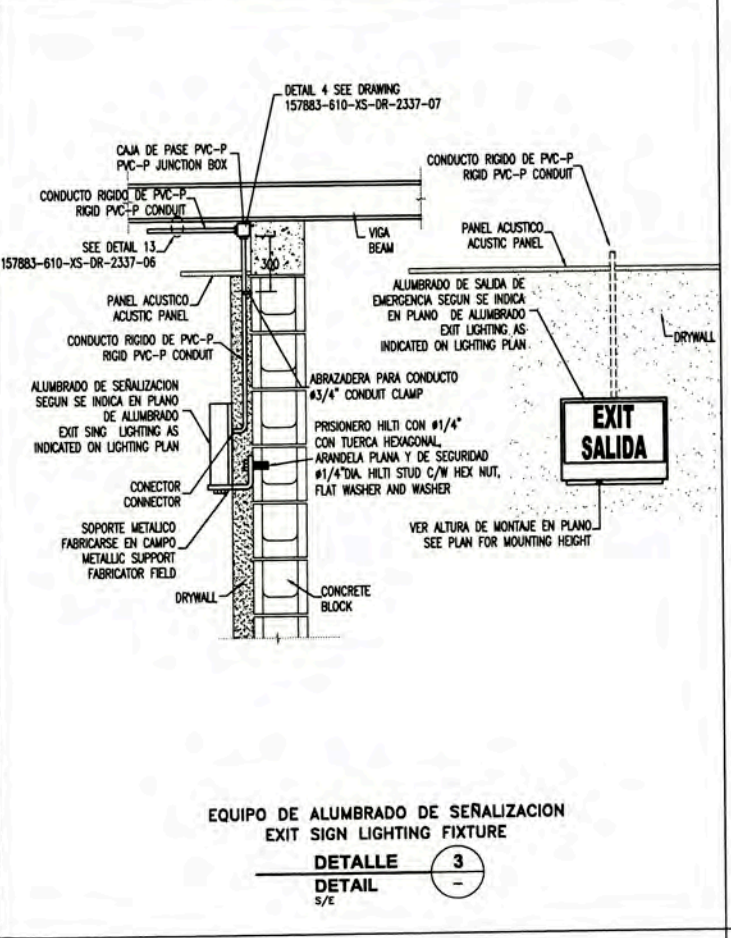
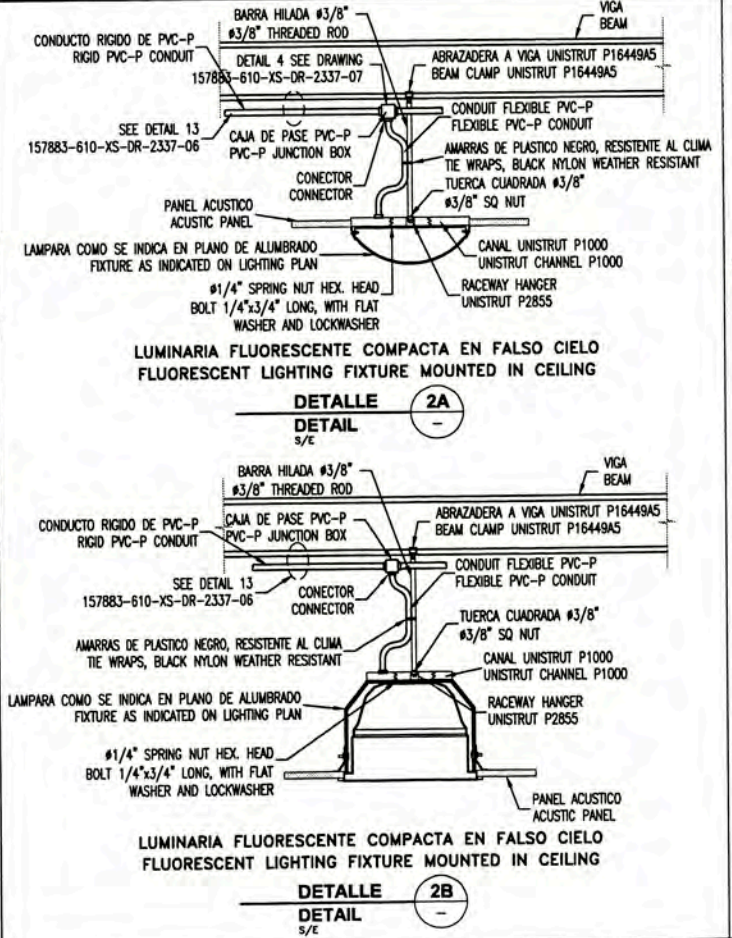
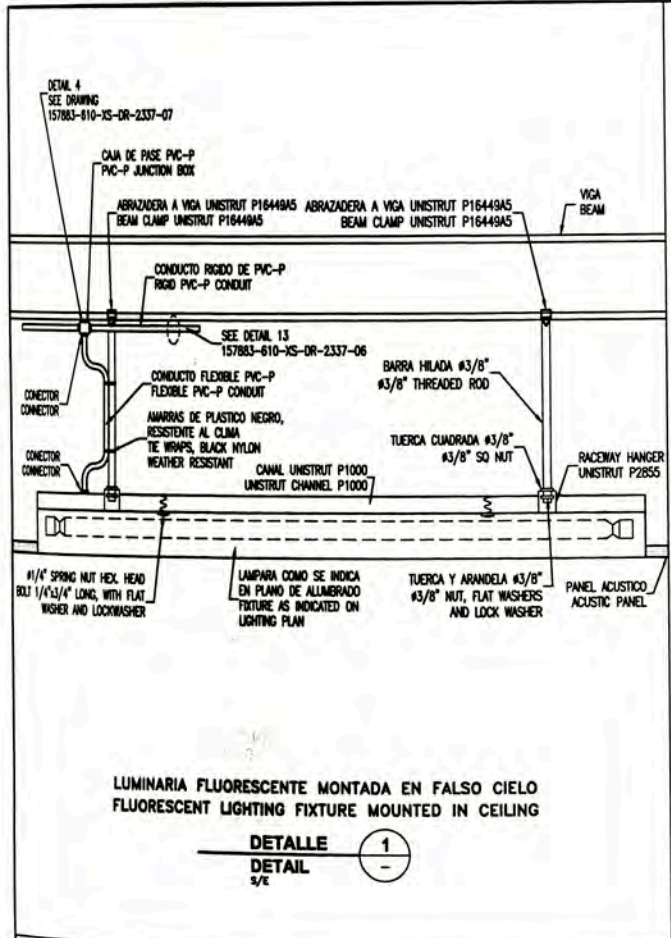
UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS
INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
PAMPA MELCHORTA

PCB ELECTRICAL INSTALLATIONS
EXTERIOR LIGHTING INSTALLATION DETAILS AND NOTES

PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS
INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
PAMPA MELCHORTA
SCALE: INDICATED
DATE: 11/08/08
PROJECT NO: 1618

NO.	ISSUED FOR CONSTRUCTION	DATE	BY	APPROVED BY	REVISION	DESCRIPTION
1		08/07/08	WPA	MEJ		SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT
2		08/07/08	WPA	MEJ		LIGHTING INTENSITIES CALCULATION
3		08/07/08	WPA	MEJ		SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT
4		08/07/08	WPA	MEJ		PLANT GENERAL OUTDOOR LIGHTING DISTRIBUTION



157883-610-XS-DR-2031-01	LIGHTING DISTRIBUTION SUBSTATION SS-9000
157883-610-XS-DR-2231-01	LIGHTING DISTRIBUTION GUEST HOUSE (A-9006)
157883-610-XS-DR-2131-01	LIGHTING DISTRIBUTION GUARD HOUSE & GATE (A-9008)
157883-610-XS-DR-1431-03	LIGHTING DISTRIBUTION MEDICAL CLINIC BUILDING (A-9007)
157883-610-XS-DR-1431-02	LIGHTING DISTRIBUTION DINING/MESH (A-9006)
157883-610-XS-DR-1431-01	LIGHTING DISTRIBUTION COMMUNITY RECREATION CENTER (A-9005)
157883-610-XS-DR-1331-01	LIGHTING DISTRIBUTION COMMUNITY WAREHOUSE (A-9004)
157883-610-XS-DR-1231-01	LIGHTING DISTRIBUTION ROTATION STAFF HOUSING (A-9002)
157883-610-XS-DR-1131-01	LIGHTING DISTRIBUTION MANAGEMENT STAFF HOUSING (A-9001)

UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA
(ELECTRICAL ENGINEERING)

LOCALIDAD: PAMPA MELCHORITA

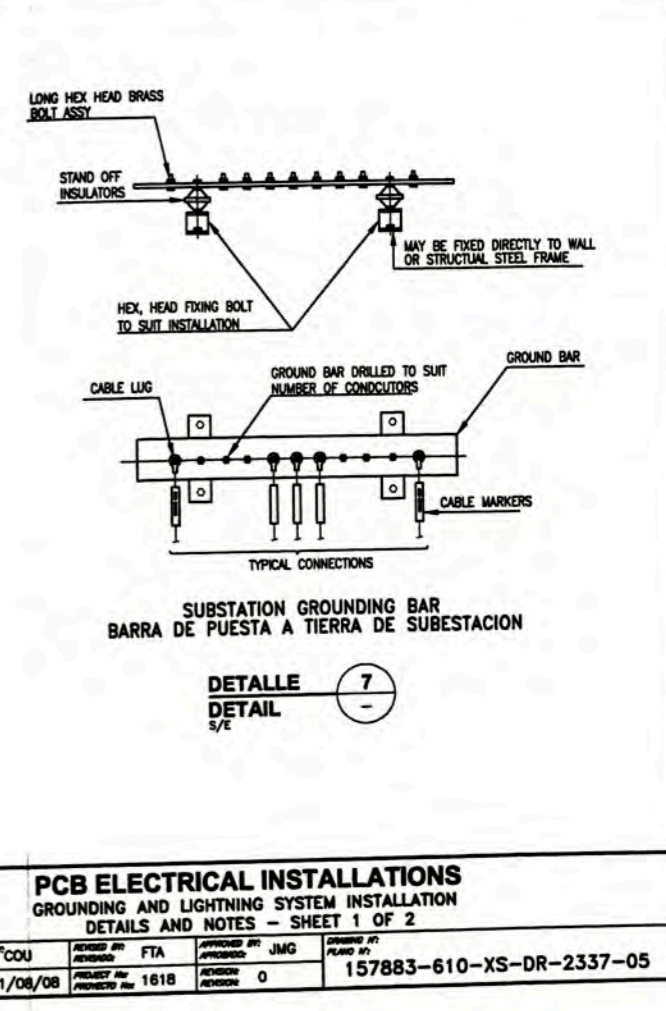
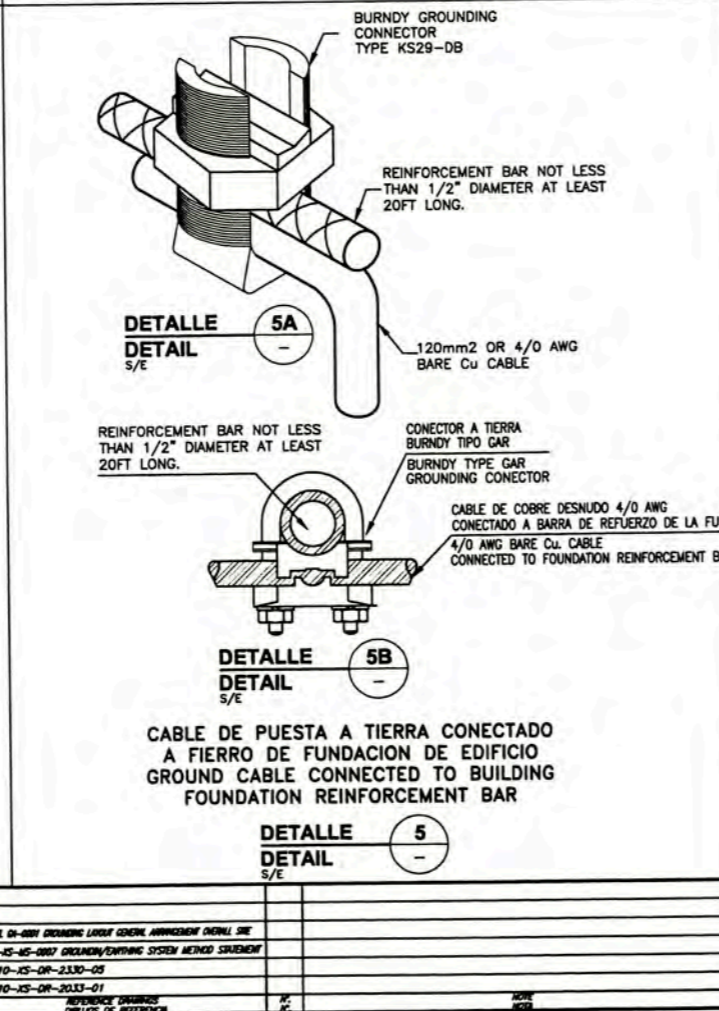
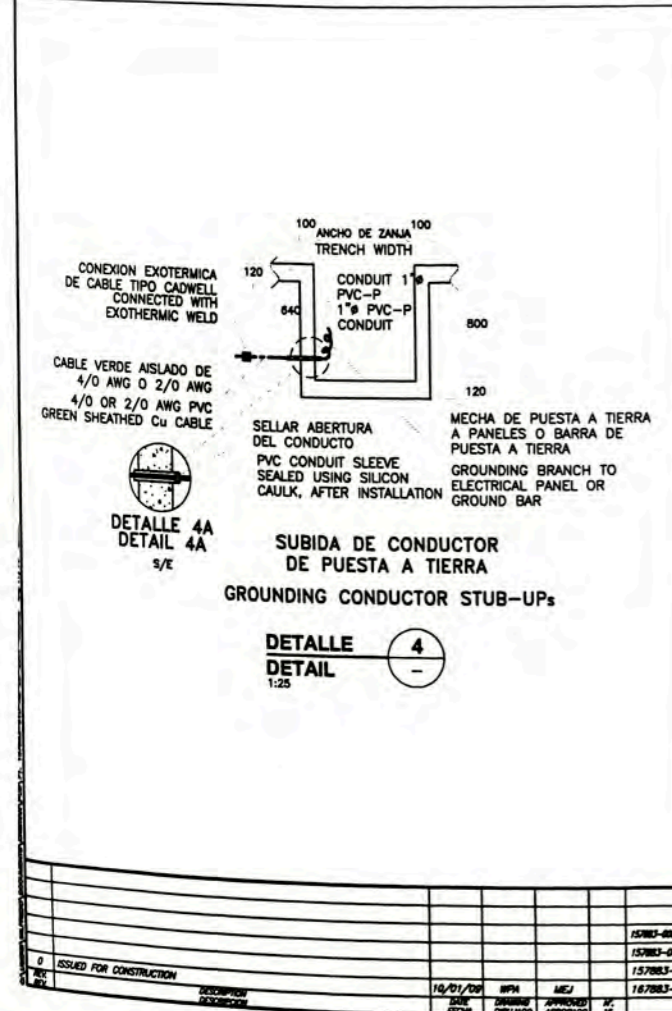
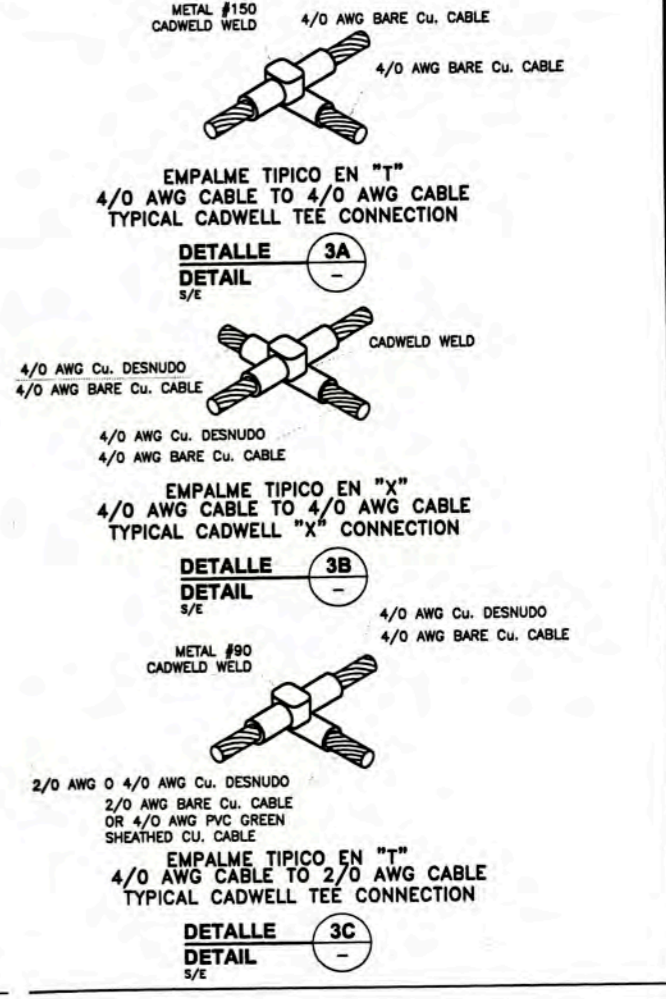
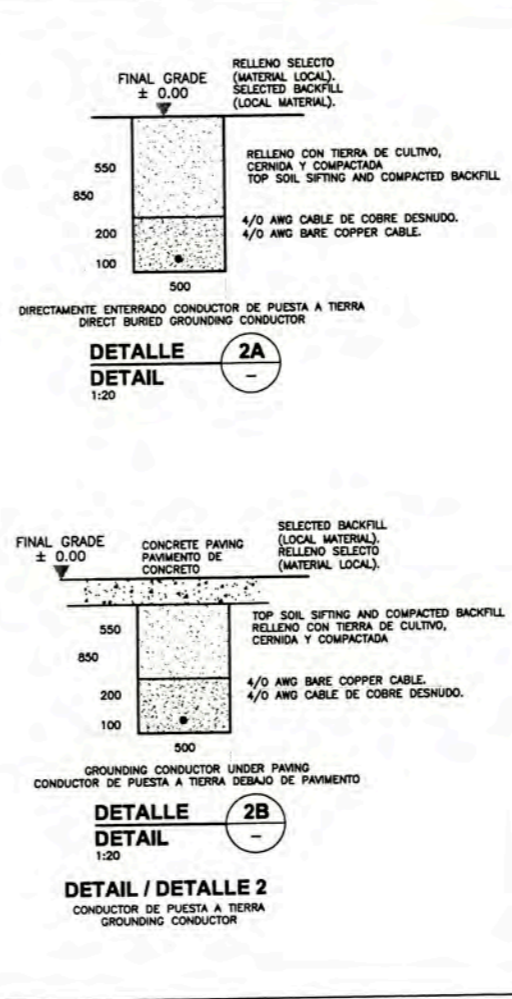
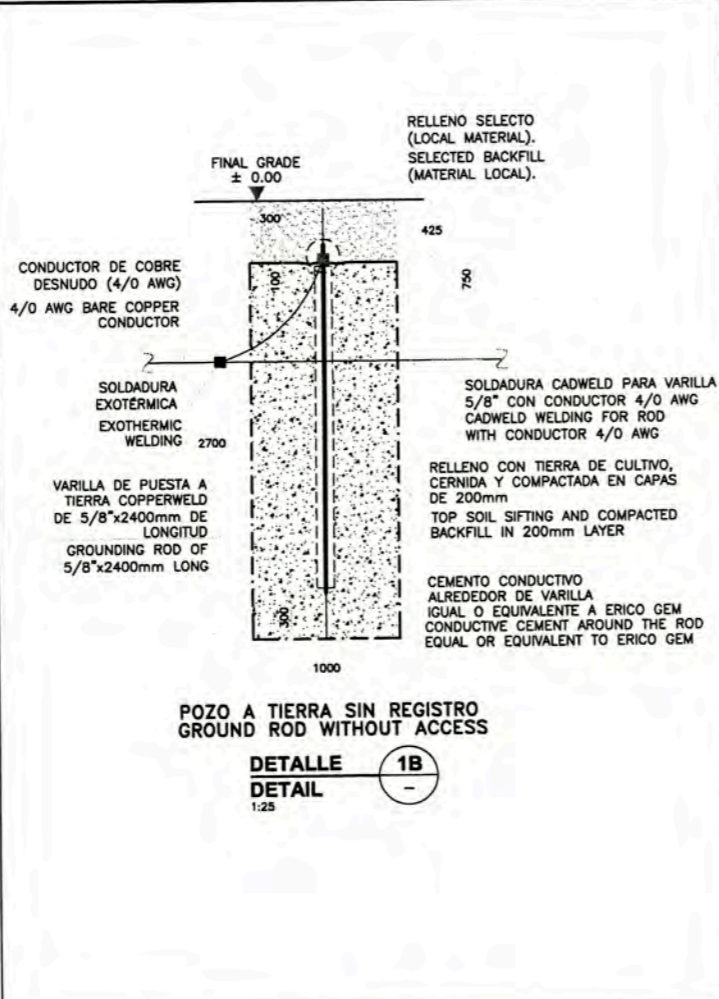
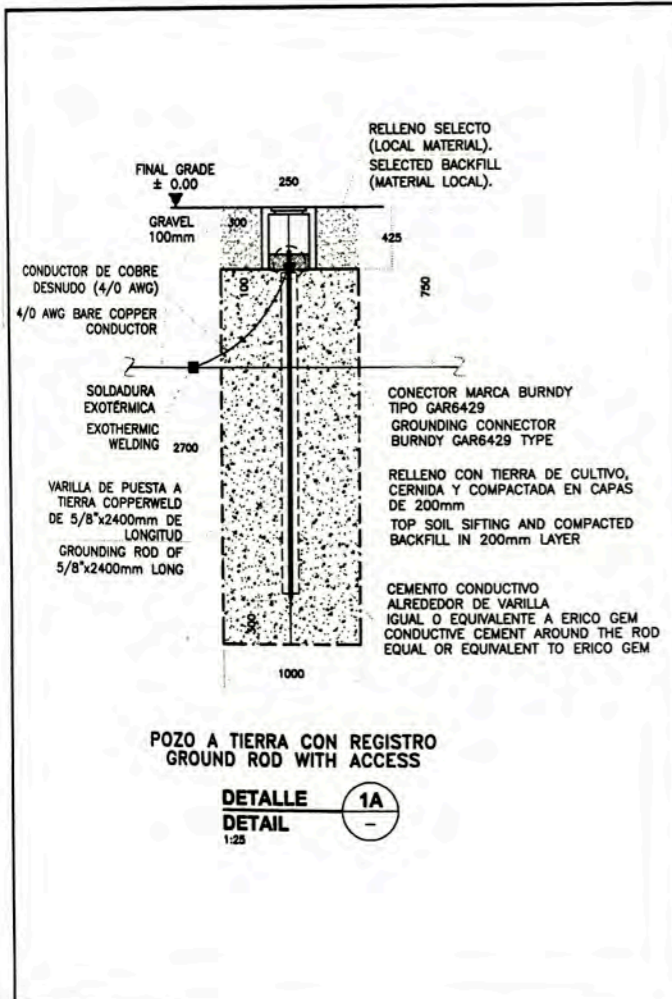
PROYECTO: PERMANENT COMMUNITY BUILDINGS

FECHA: 11/08/08

PROYECTO No: 1618

REVISOR: 0

157883-610-XS-DR-2337-04



**UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)**

PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)

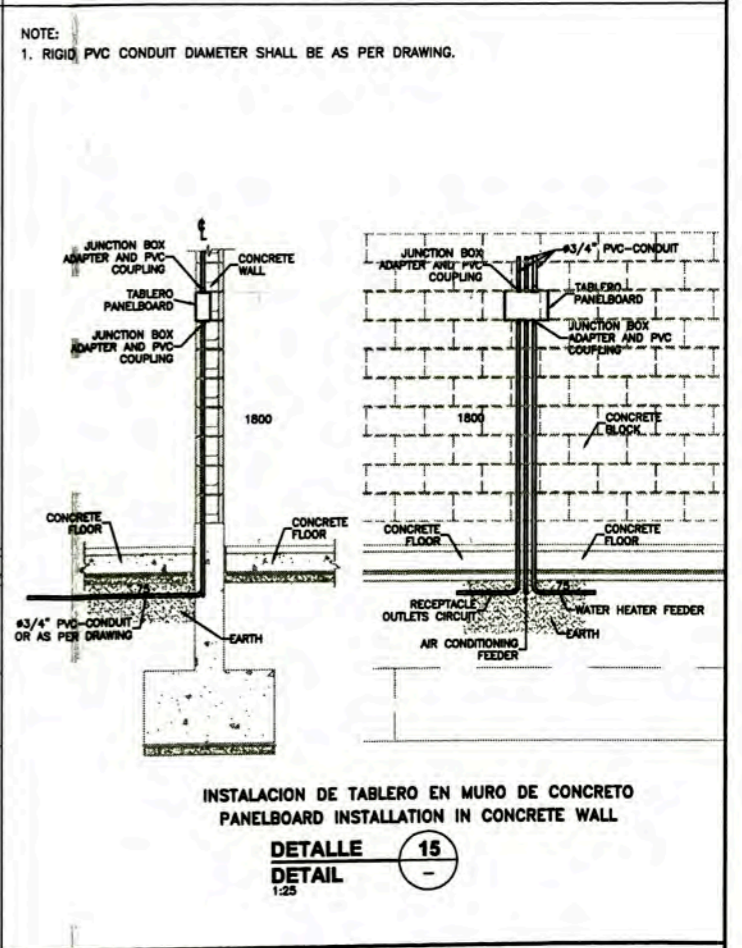
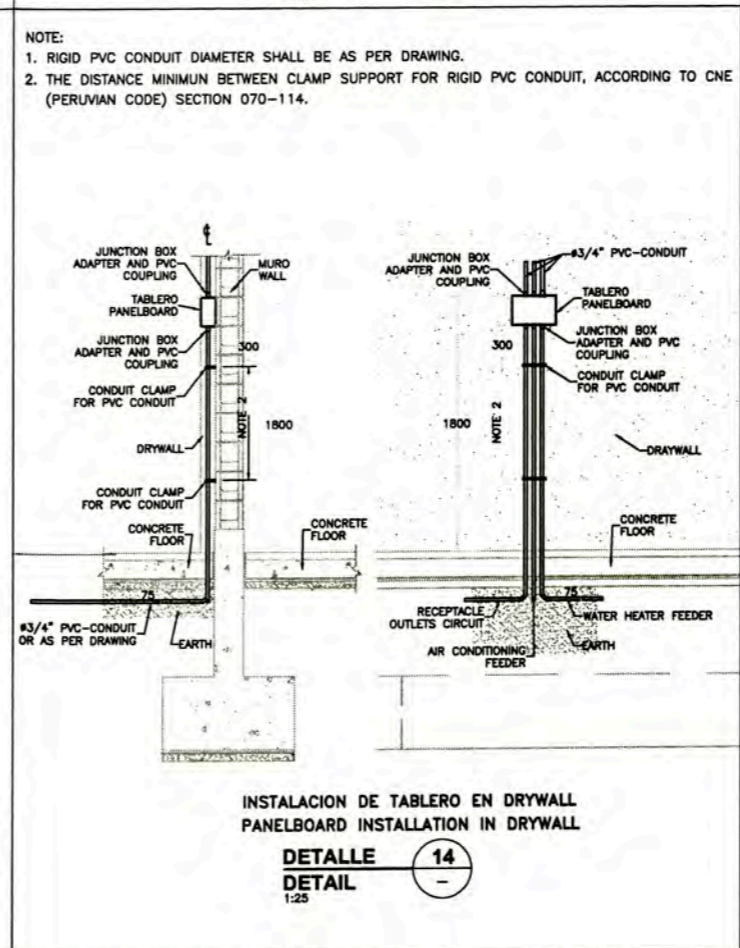
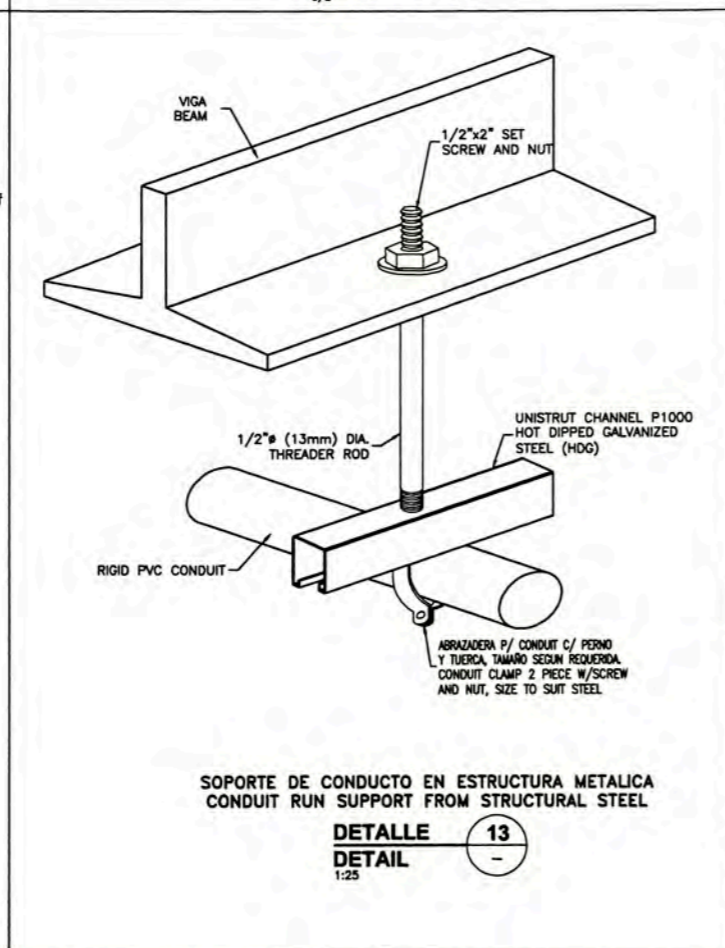
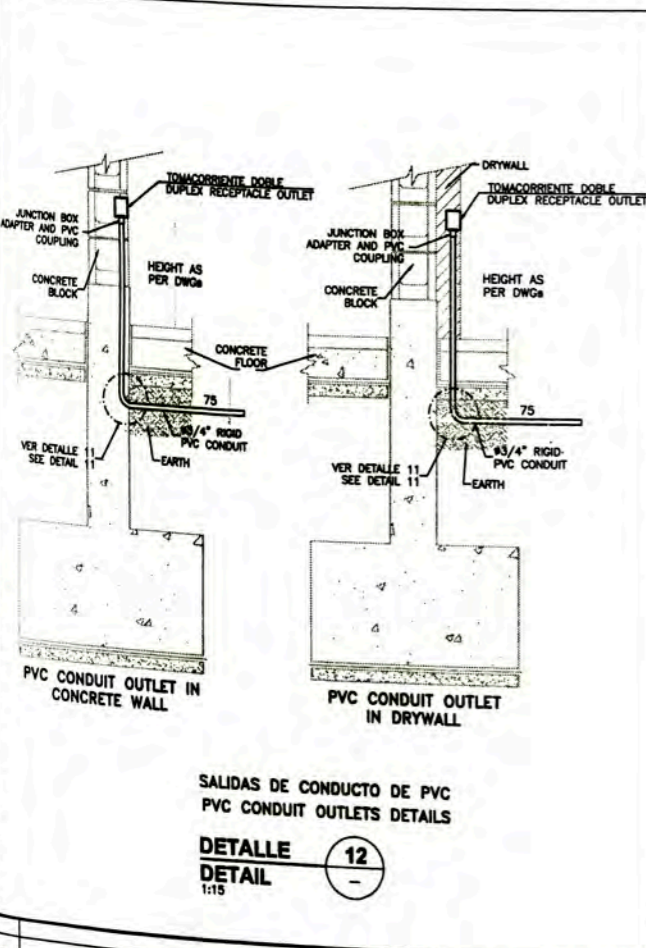
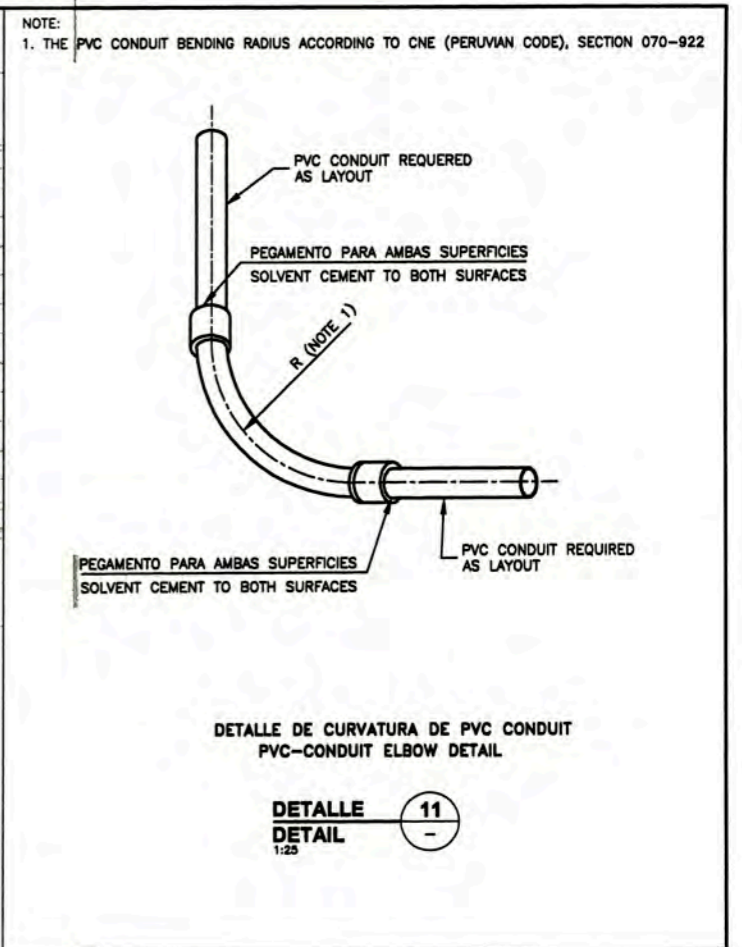
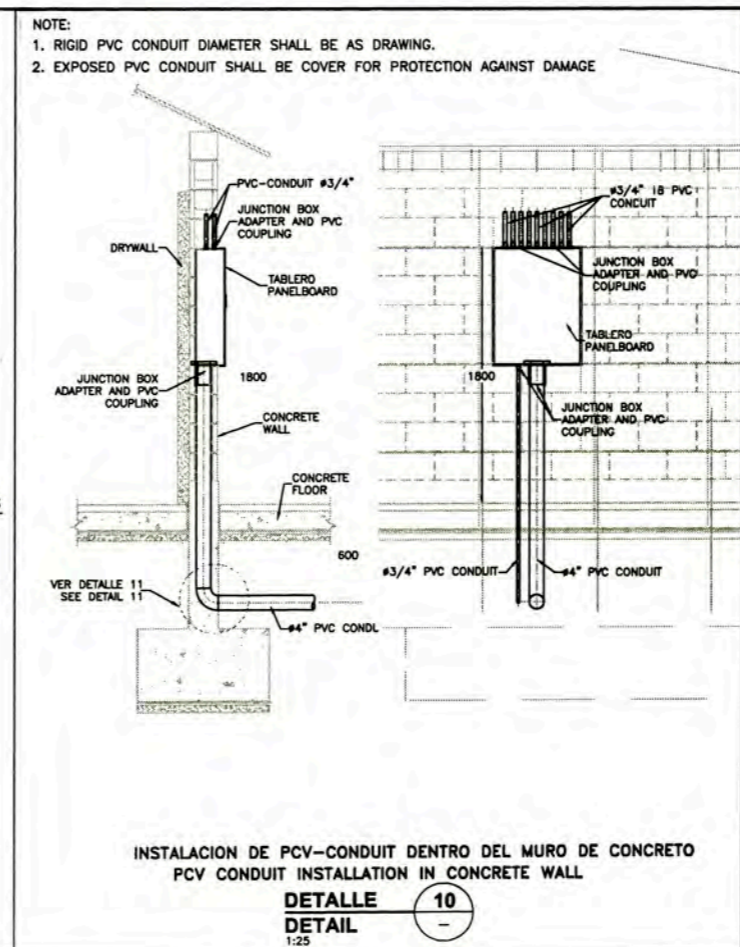
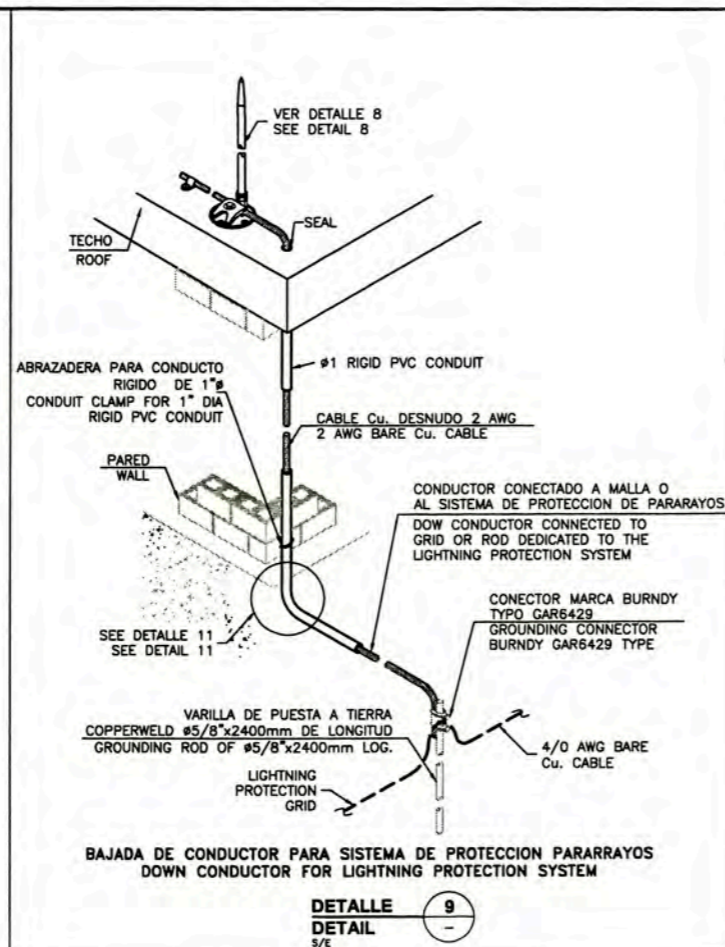
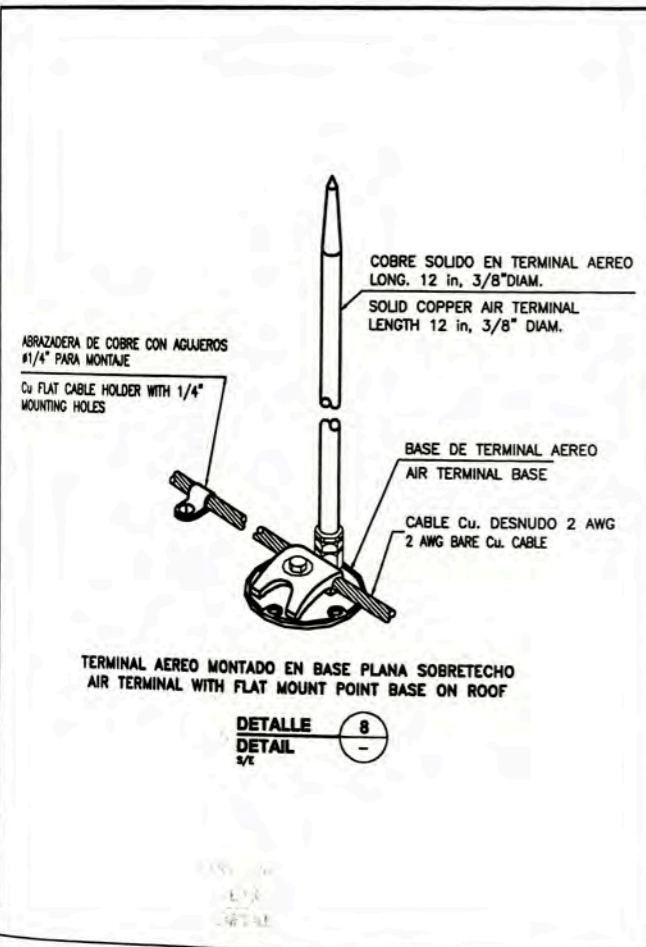
PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS

INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)

**PCB ELECTRICAL INSTALLATIONS
GROUNDING AND LIGHTNING SYSTEM INSTALLATION
DETAILS AND NOTES - SHEET 1 OF 2**

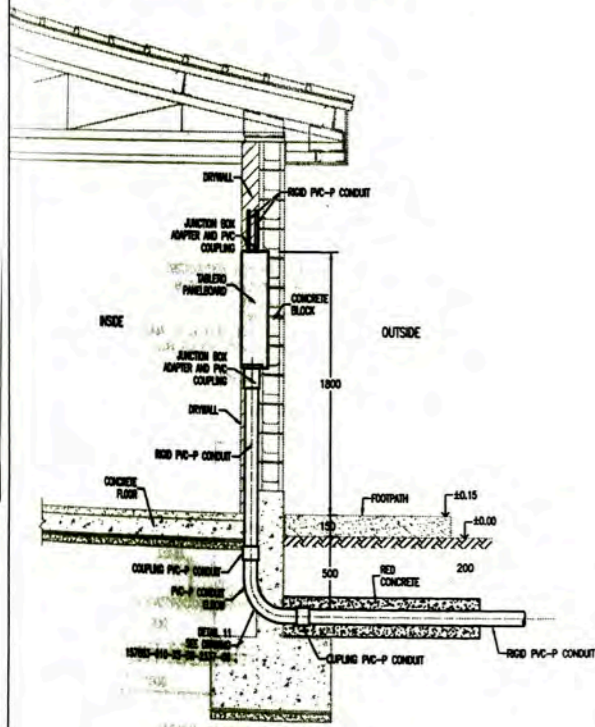
ISSUED FOR CONSTRUCTION

157883-610-XS-DR-2337-05

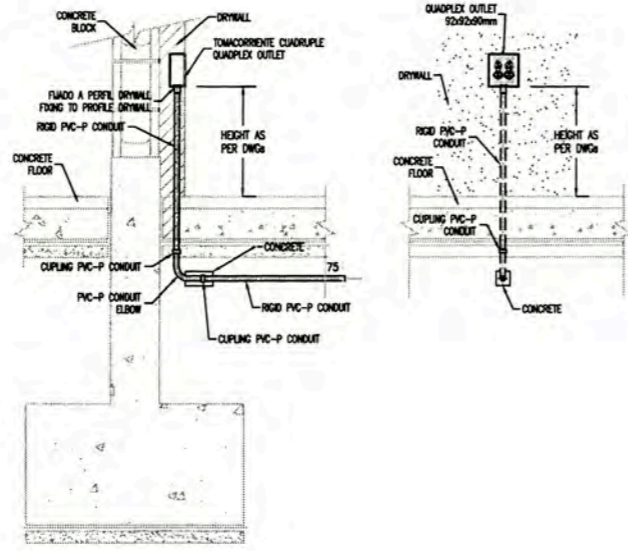


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PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS			PROJECT NO: WPA	DESIGNED BY: COU	REVIEWED BY: FTA	APPROVED BY: JMG
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		LOCATION: PAMPA MELCHORITA		SCALE: INDICATED	DATE: 11/08/08	PROJECT NO: 1618	REVISION: 0	

NOTE:
1. PANELBOARDS SHALL BE MOUNTED SUCH THAT TOP OF THE BOARD IS NOT MORE THAN 70" (1.80 METERS) ABOVE FLOOR LEVEL UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS

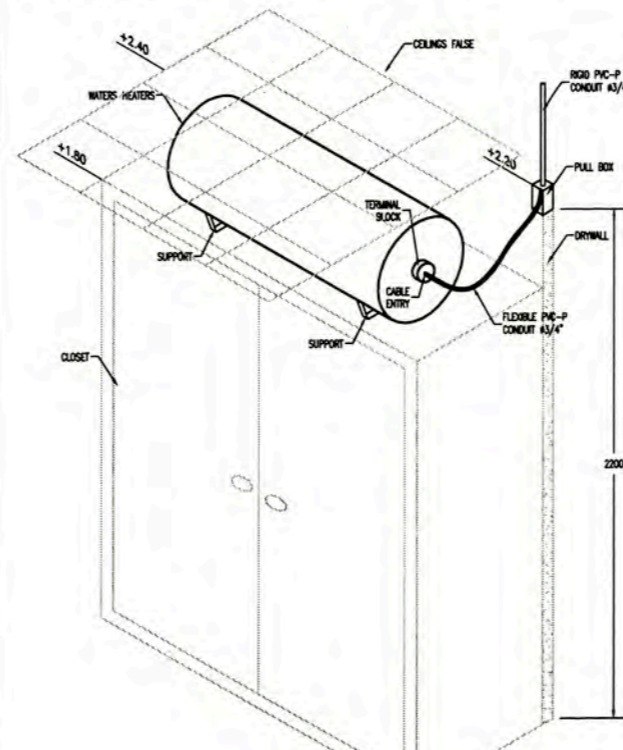


PANELBOARD INSTALLATION
DETALLE 1
DETAIL
1:25

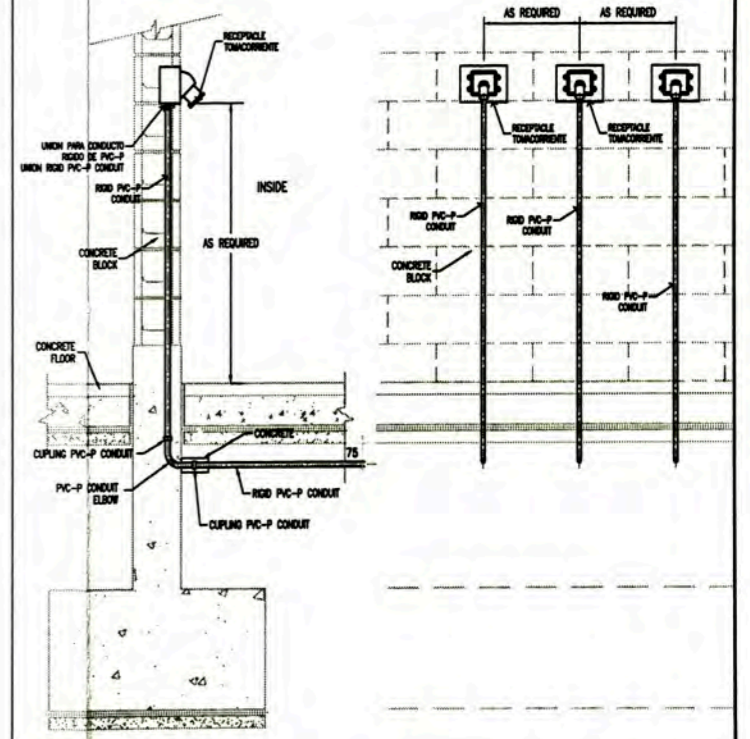


TOMACORRIENTE CUADRUPLA QUADPLEX RECEPTACLE OUTLET
DETALLE 2
DETAIL
1:15

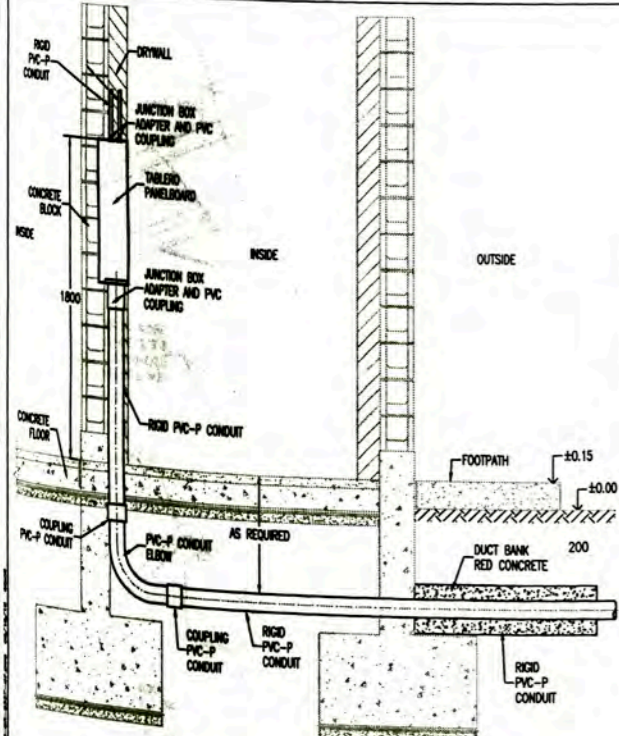
NOTE:
1. THE DETAIL 3 APPLY TO: ROTATION STAFF HOUSING (A-9002) AND GUEST HOUSE (A-9009)



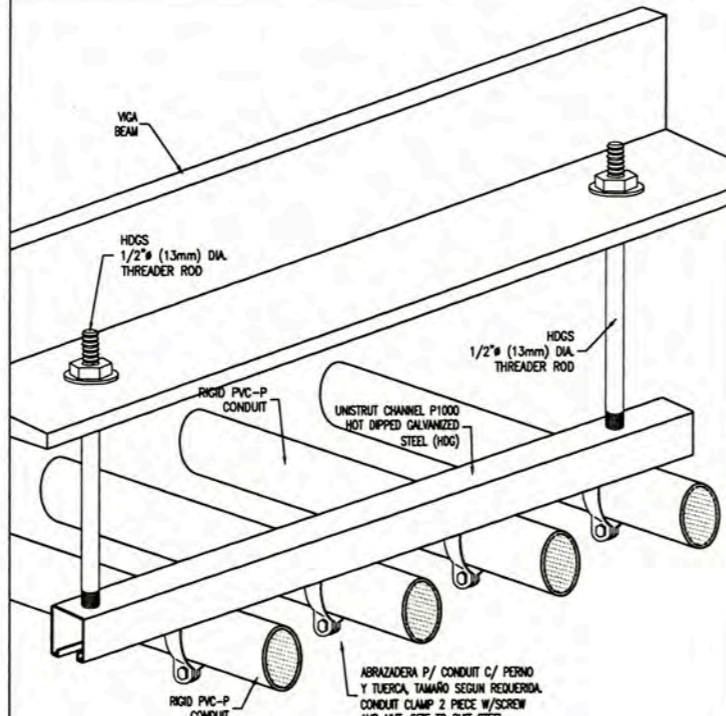
THERMA ELECTRICA WATER HEATERS
DETALLE 3
DETAIL
1:15



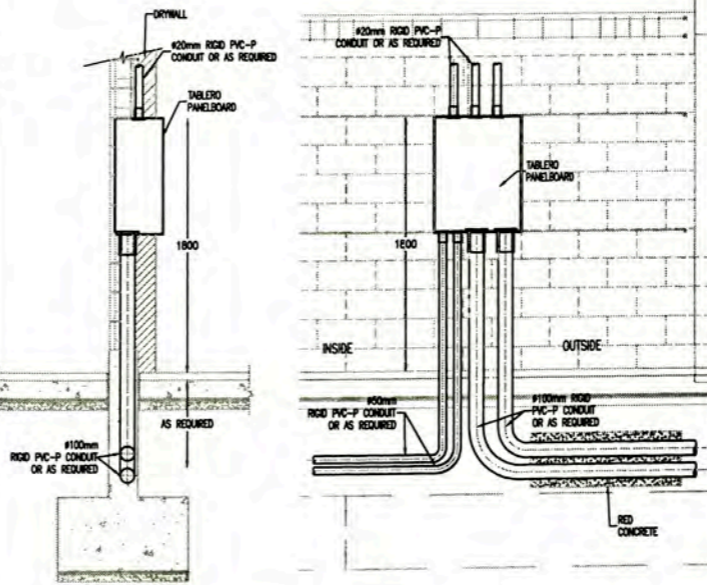
TOMACORRIENTE EN MURO DE CONCRETO RECEPTACLE MOUNTED ON CONCRETE WALL
DETALLE 4
DETAIL
5/8



PANELBOARD INSTALLATION WITH DUCT BANK
DETALLE 5
DETAIL
3/8

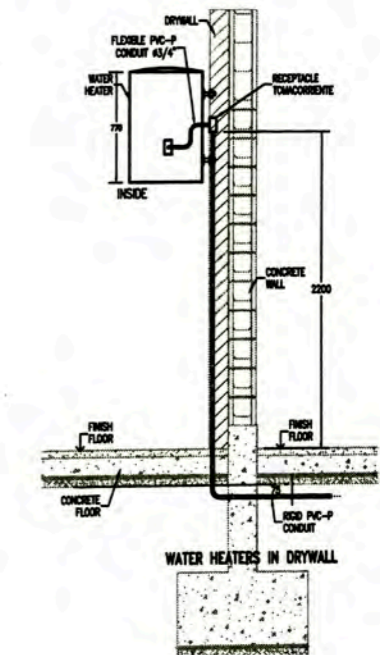


SOPORTE DE CONDUCTOS EN ESTRUCTURA METALICA CONDUIT RUN SUPPORTS FROM STRUCTURAL STEEL
DETALLE 6
DETAIL
1:25



PANELBOARD INSTALLATION
DETALLE 7
DETAIL
5/8

NOTE:
1. THE DETAIL 8 APPLY TO: MANAGEMENT STAFF HOUSING (A-9001), COMMUNITY RECREATION CENTER (A-9005), DINING/MESH HALL (A-9006), MEDICAL CLINIC (A-9007), GUARD HOUSE & GATE (A-9008) AND GUEST HOUSE (A-9009)



THERMA ELECTRICA WATER HEATERS
DETALLE 8
DETAIL
1:25

157883-610-XS-DR-2031-02	POWER AND RECEPTACLE OUTLETS LAYOUT SUBSTATION SS-9000
157883-610-XS-DR-2231-02	POWER AND RECEPTACLE OUTLETS LAYOUT GUEST HOUSE (A-9008)
157883-610-XS-DR-2131-02	POWER AND RECEPTACLE OUTLETS LAYOUT GUARD HOUSE & GATE (A-9008)
157883-610-XS-DR-1431-08	POWER AND RECEPTACLE OUTLET LAYOUT MEDICAL CLINIC BUILDING (A-9007)
157883-610-XS-DR-1431-05	POWER AND RECEPTACLE OUTLET LAYOUT DINING/MESH (A-9008)
157883-610-XS-DR-1431-04	POWER AND RECEPTACLE OUTLETS LAYOUT COMMUNITY RECREATION CENTER (A-9005)
157883-610-XS-DR-1331-02	POWER AND RECEPTACLE OUTLETS LAYOUT COMMUNITY WAREHOUSE (A-9004)
157883-610-XS-DR-1231-02	SOCKETS OUTLETS LAYOUT ROTATION STAFF HOUSING (A-9002)
157883-610-XS-DR-1131-02	POWER AND RECEPTACLE OUTLETS LAYOUT MANAGEMENT STAFF HOUSING (A-9001)



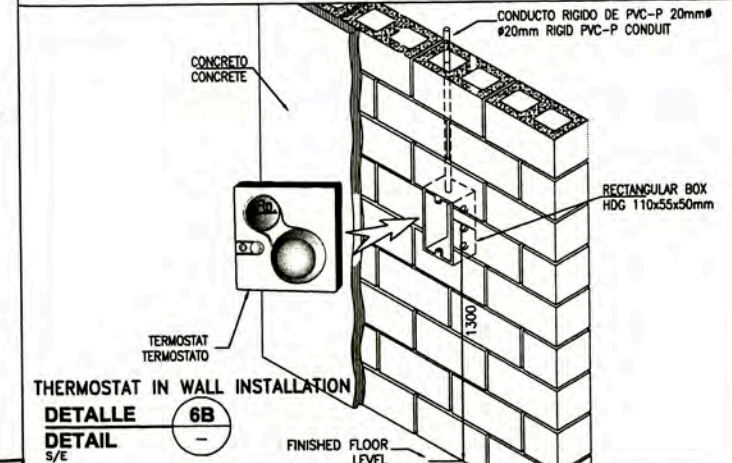
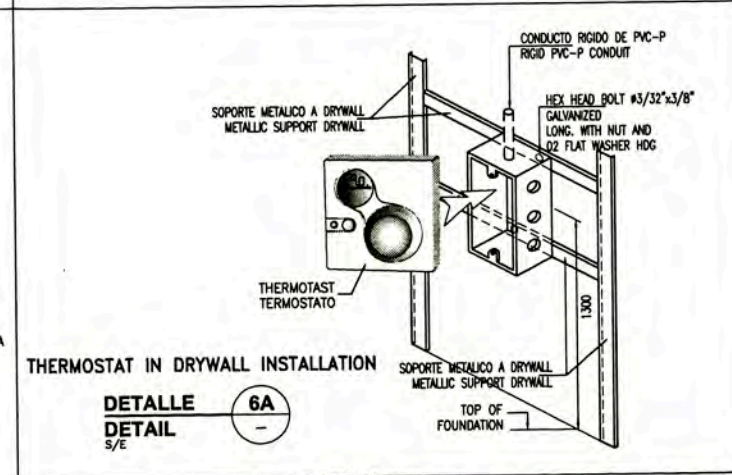
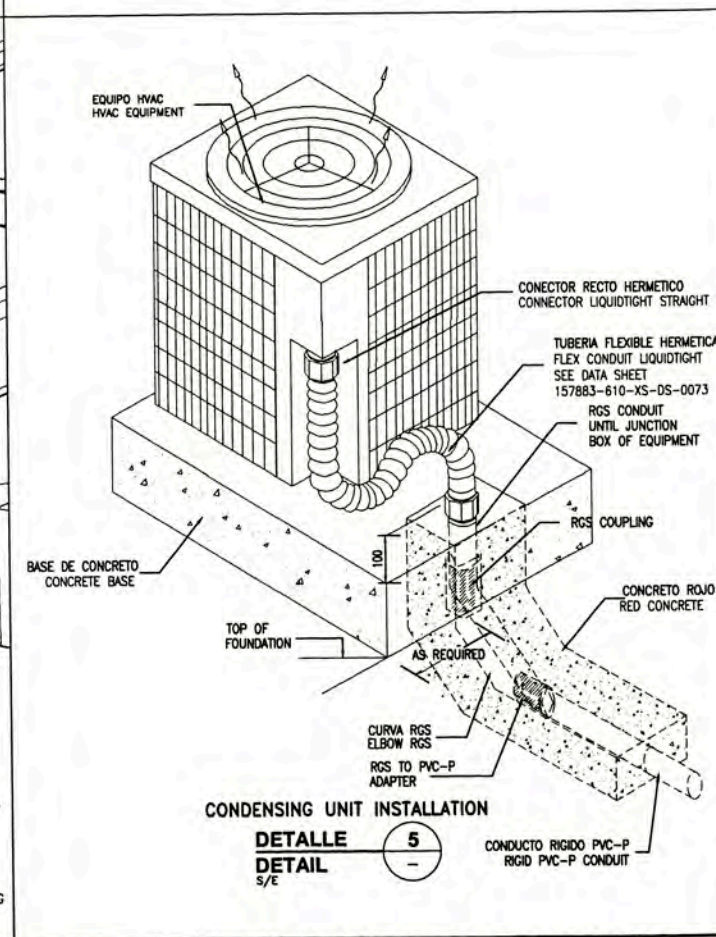
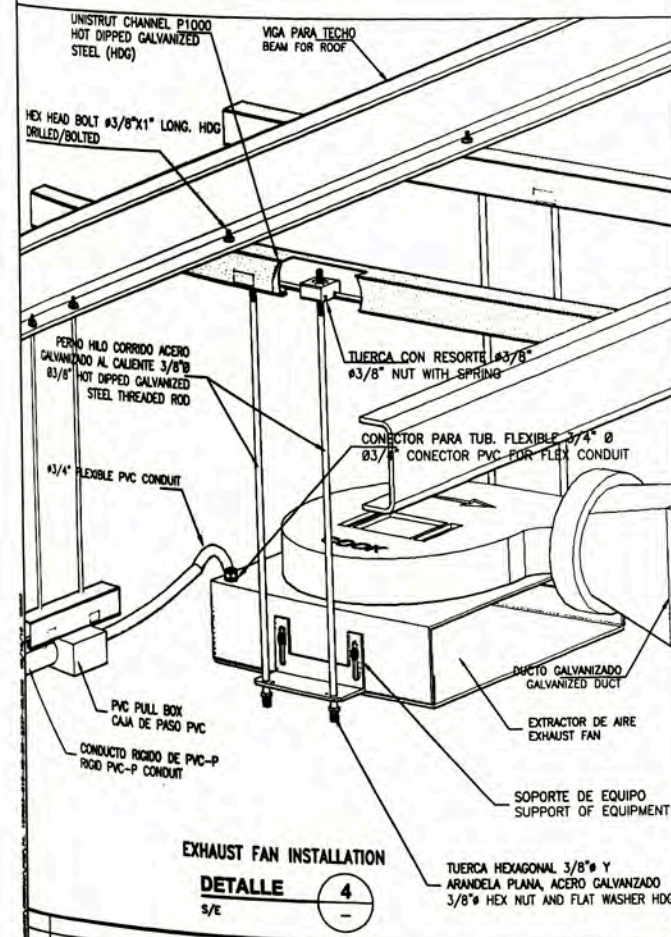
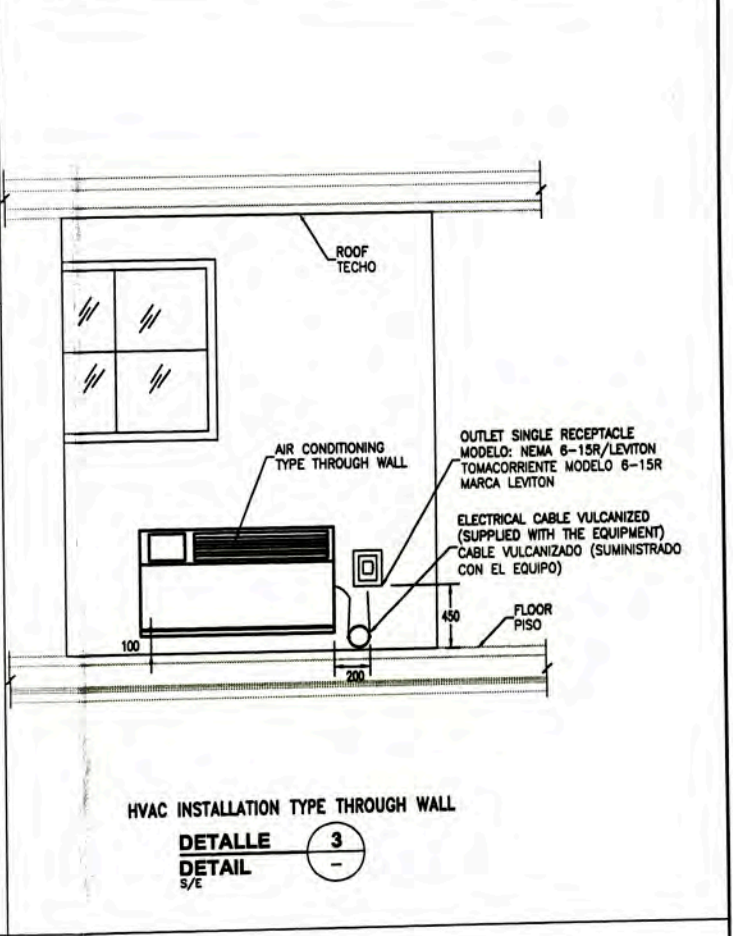
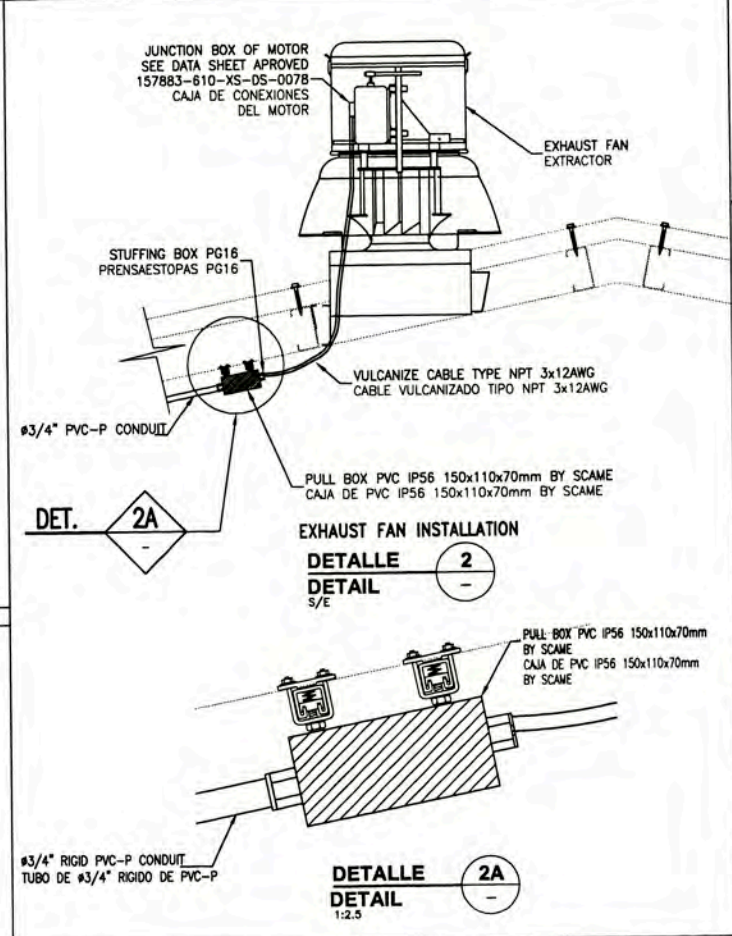
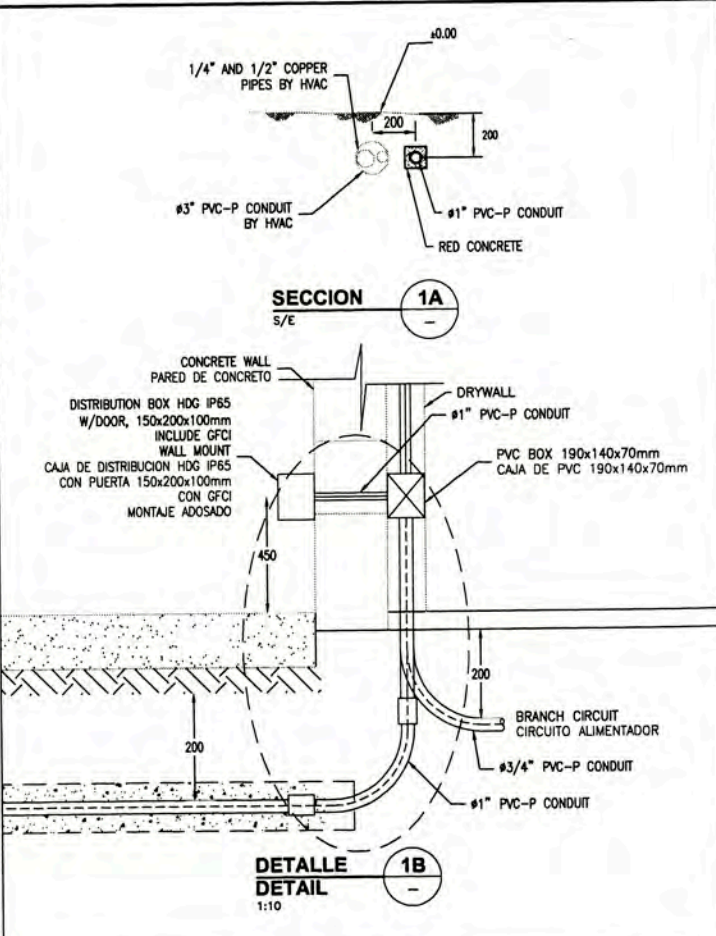
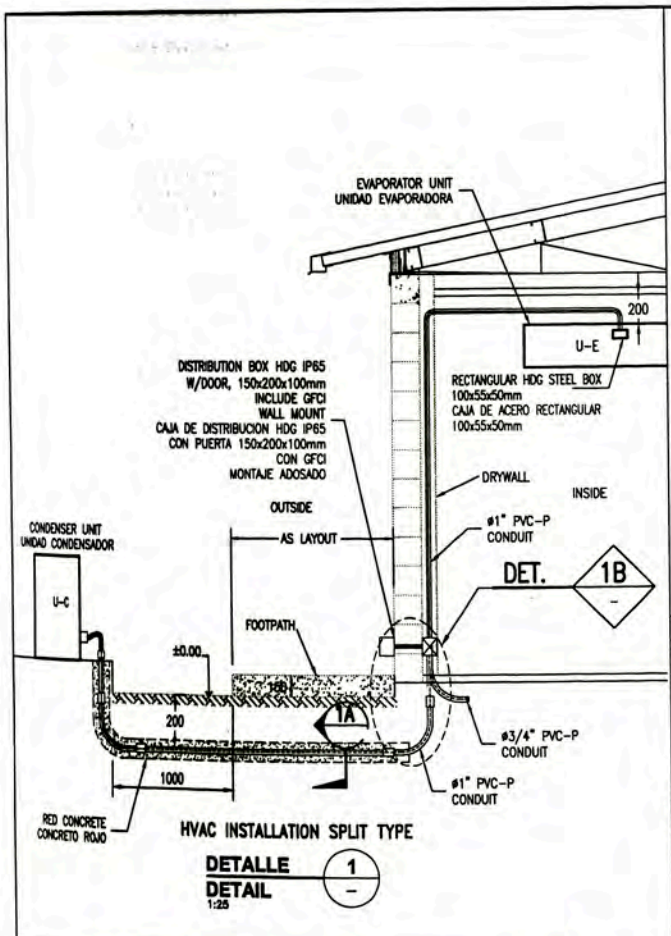
UNIVERSIDAD NACIONAL DE INGENIERIA
FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)

PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS
SPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
LOCALIDAD: PAMPA MELCHORTA

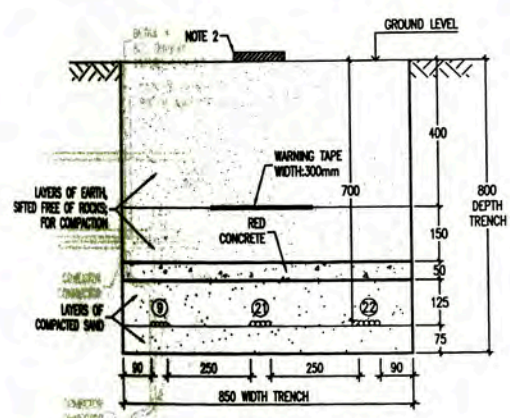
PROYECTO: PERU LNG EXPORT PROJECT
PERMANENT COMMUNITY BUILDINGS
SPECIALIDAD: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)
LOCALIDAD: PAMPA MELCHORTA

PERMANENT COMMUNITY BUILDINGS
ELECTRICAL INSTALLATIONS DETAILS - NOTES

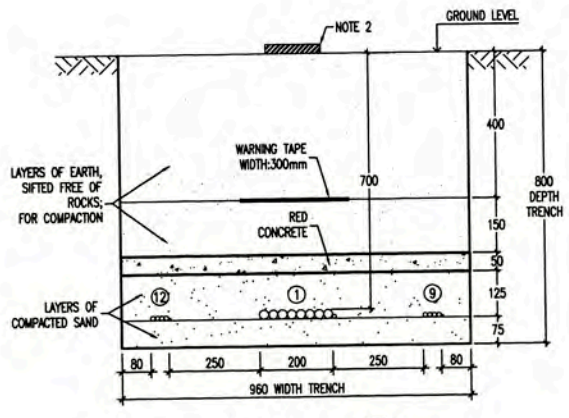
DESIGNING BY: WPA	DESIGNED BY: COU	REVIEWED BY: FTA	APPROVED BY: JMG	DESIGNED BY: PLANO 07
DATE: 11/08/08	DATE: 11/08/08	PROJECT NO: 1618	REVISION: 0	157883-610-XS-DR-2337-07



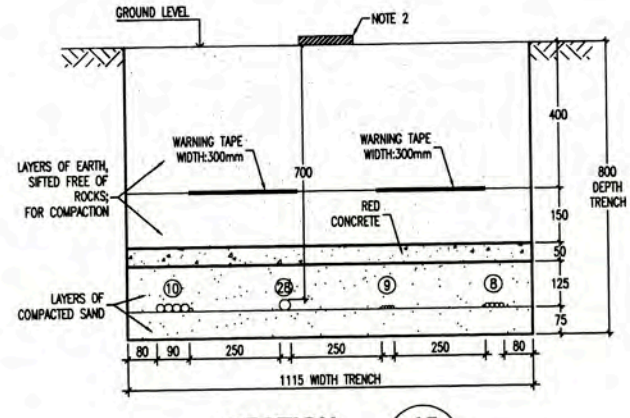
157883-610-XS-DR-2331-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-VP GUEST HOUSE A-9008	<p>UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)</p> <p>PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS</p> <p>INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)</p> <p>LOCACION: PAMPA MELCHORITA</p>	DESIGNER: WPA	DESIGNED BY: COU	REVIEWED BY: FTA	APPROVED BY: JMG	PROJECT NO: 157883-610-XS-DR-2337-08
157883-610-XS-DR-1431-09	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-VP MEDICAL CLINIC A-9007		DATE: 11/08/08	PROJECT NO: 1618	REVISION: 0	SCALE: INDICATED	
157883-610-XS-DR-1431-08	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-DINING/MESS A-9008						
157883-610-XS-DR-1431-07	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-COMMUNITY RECREATION A-9005						
157883-610-XS-DR-1331-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-COMMUNITY WARDHOUSE A-9004						
157883-610-XS-DR-1231-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-ROTATION STAFF HOUSING A-9002						
157883-610-XS-DR-1131-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-MANAGEMENT STAFF HOUSING A-9001						
157883-610-XS-DR-1131-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-MANAGEMENT STAFF HOUSING A-9001						
157883-610-XS-DR-1131-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-MANAGEMENT STAFF HOUSING A-9001						
157883-610-XS-DR-1131-03	POWER LAYOUT FOR AIR CONDITIONING EQUIPMENTS-MANAGEMENT STAFF HOUSING A-9001						



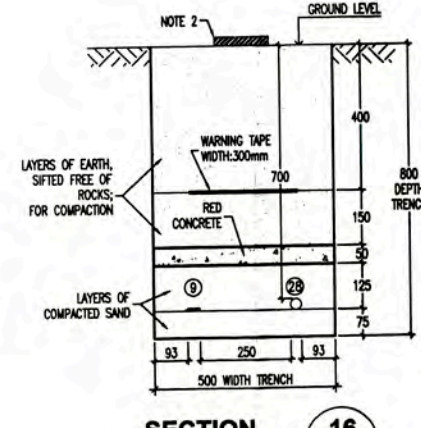
SECTION 13
1:10



SECTION 14
1:10

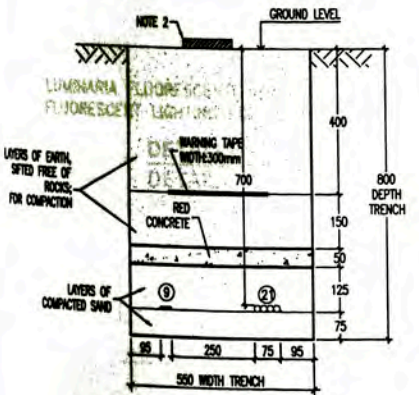


SECTION 15
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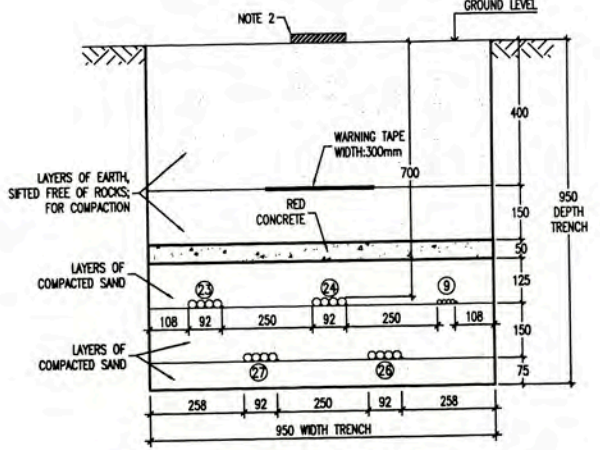


SECTION 16
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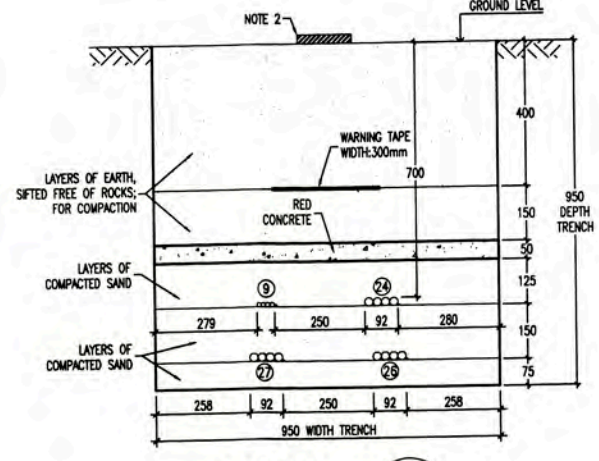
ELECTRICAL CABLES LIST	
①	FEEDER DP-0008 : 2(3-1x185mm ² (P), NY+1x185mm ² (N), NY+1x85mm ² (G), TW
②	FEEDER DP-0008 : 3-1x10mm ² (P), NY+1x10mm ² (N), NY+1x6mm ² (G), TW
③	FEEDER LIGHTING : NOTE 7
④	FEEDER DP-0004 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑤	FEEDER DP-0008-8 : 3-1x35mm ² (P), NY+1x185mm ² (N), NY+1x85mm ² (G), TW
⑥	FEEDER DP-0002-81 : 3-1x85mm ² (P), NY+1x85mm ² (N), NY+1x50mm ² (G), TW
⑦	FEEDER DP-0002-82 : 3-1x85mm ² (P), NY+1x85mm ² (N), NY+1x50mm ² (G), TW
⑧	FEEDER DP-0002-83 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑨	FEEDER DP-0002-84 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑩	FEEDER DP-0002-85 : 3-1x85mm ² (P), NY+1x85mm ² (N), NY+1x50mm ² (G), TW
⑪	FEEDER DP-0002-86 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑫	FEEDER DP-0002-87 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑬	FEEDER DP-0002-88 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑭	FEEDER DP-0002-89 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑮	FEEDER DP-0002-90 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑯	FEEDER DP-0002-91 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑰	FEEDER DP-0002-92 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑱	FEEDER DP-0002-93 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑲	FEEDER DP-0002-94 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
⑳	FEEDER DP-0002-95 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉑	FEEDER DP-0002-96 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉒	FEEDER DP-0002-97 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉓	FEEDER DP-0002-98 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
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㉛	FEEDER DP-0002-106 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉜	FEEDER DP-0002-107 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉝	FEEDER DP-0002-108 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉞	FEEDER DP-0002-109 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㉟	FEEDER DP-0002-110 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊱	FEEDER DP-0002-111 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊲	FEEDER DP-0002-112 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊳	FEEDER DP-0002-113 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊴	FEEDER DP-0002-114 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊵	FEEDER DP-0002-115 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊶	FEEDER DP-0002-116 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
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㊸	FEEDER DP-0002-118 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
㊹	FEEDER DP-0002-119 : 3-1x150mm ² (P), NY+1x150mm ² (N), NY+1x85mm ² (G), TW
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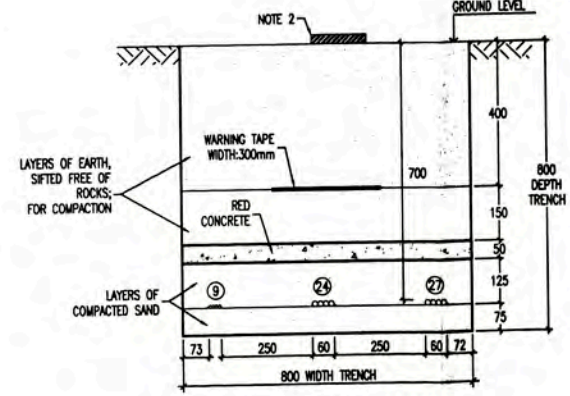
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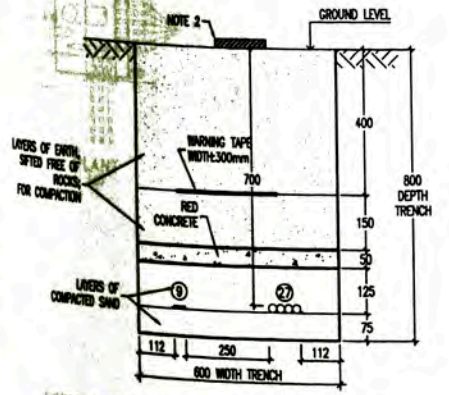
SECTION 18
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SECTION 19
1:10



SECTION 20
1:10

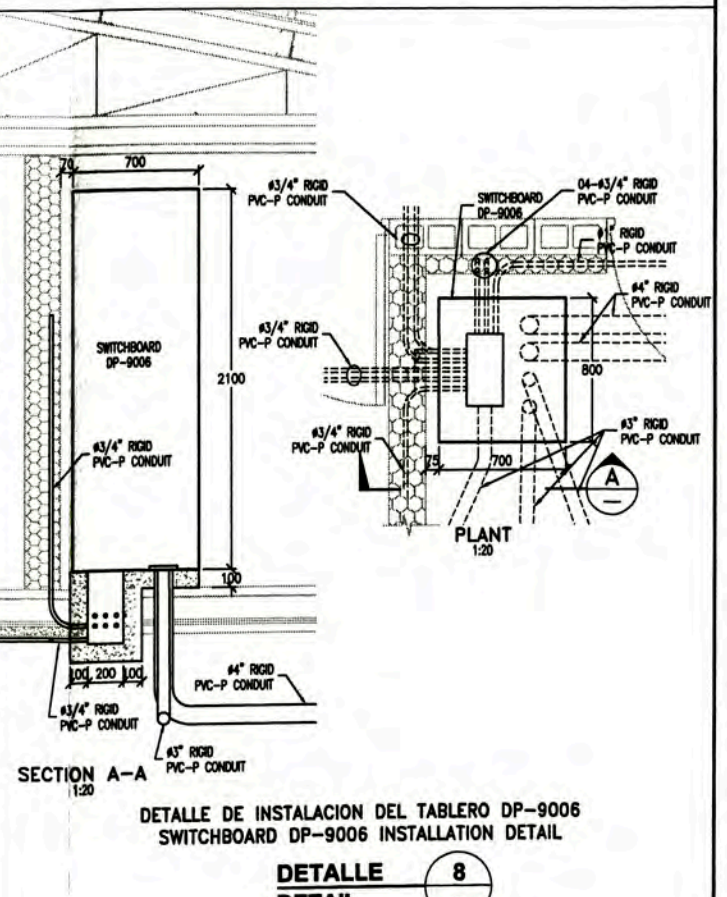
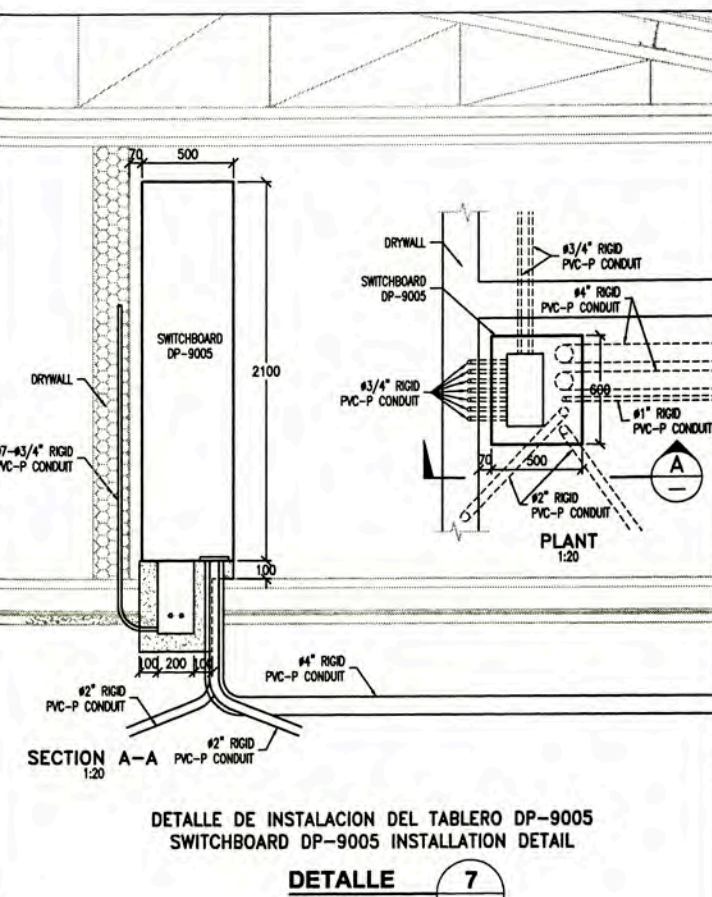
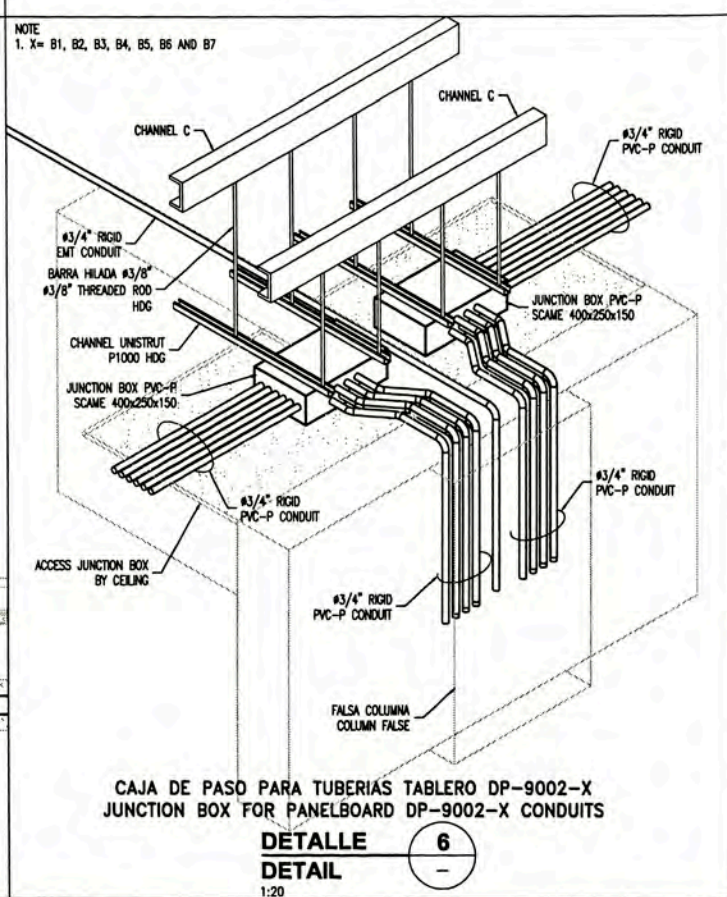
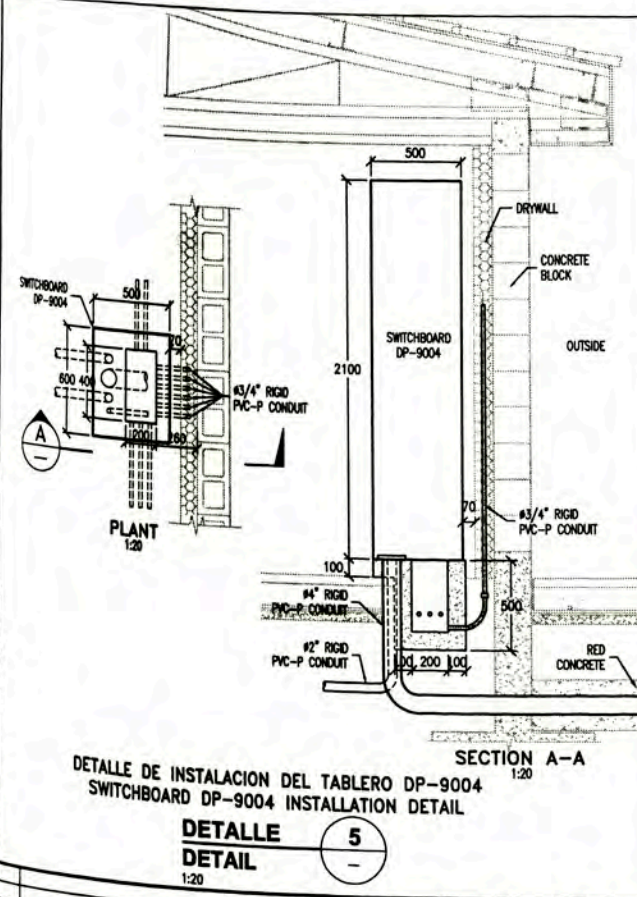
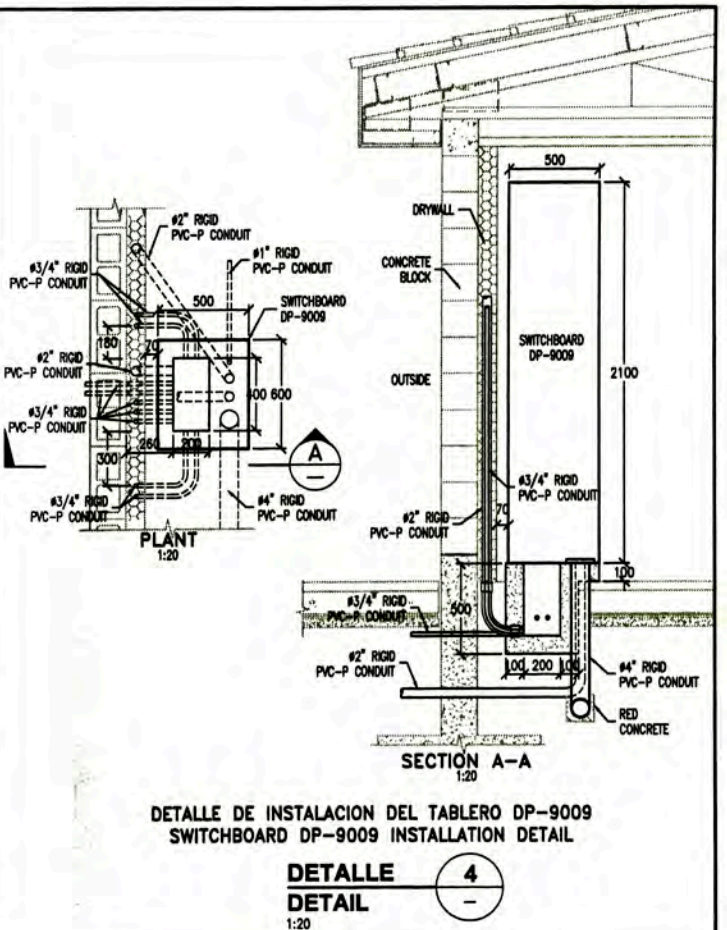
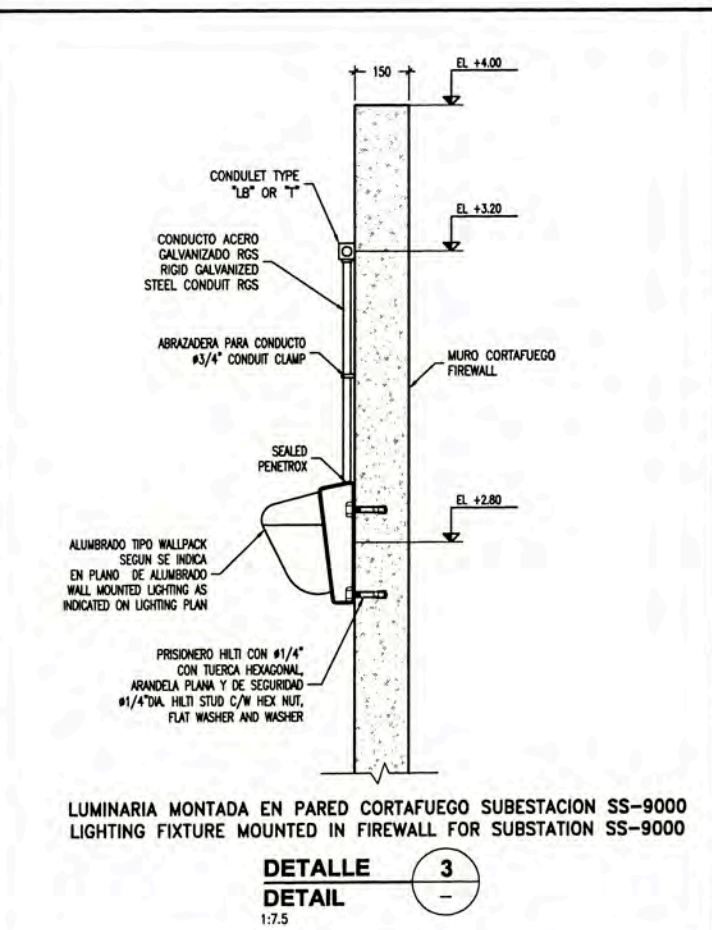
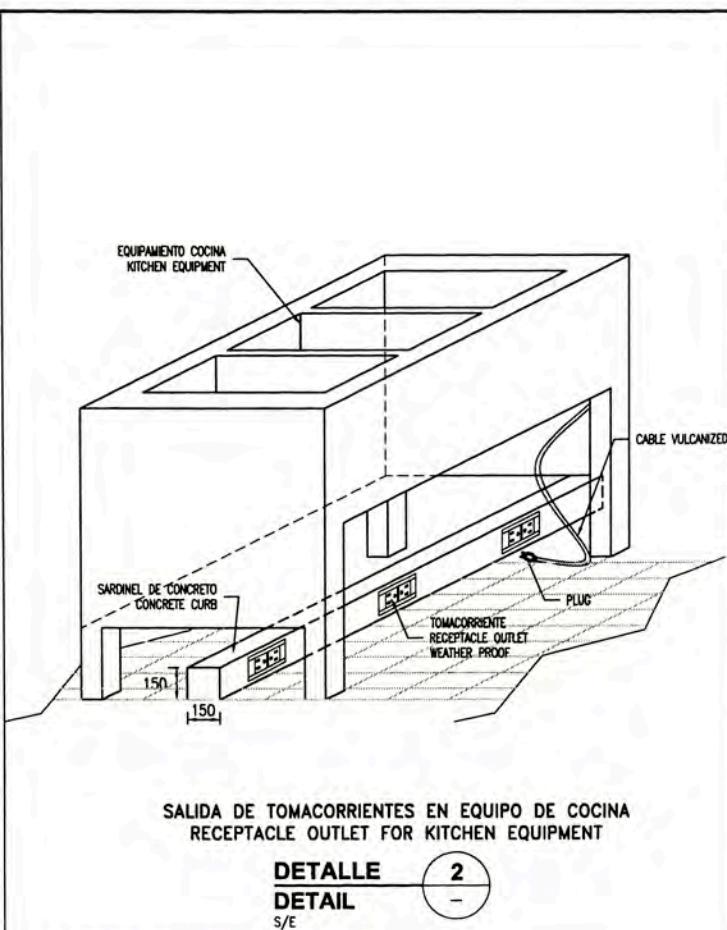
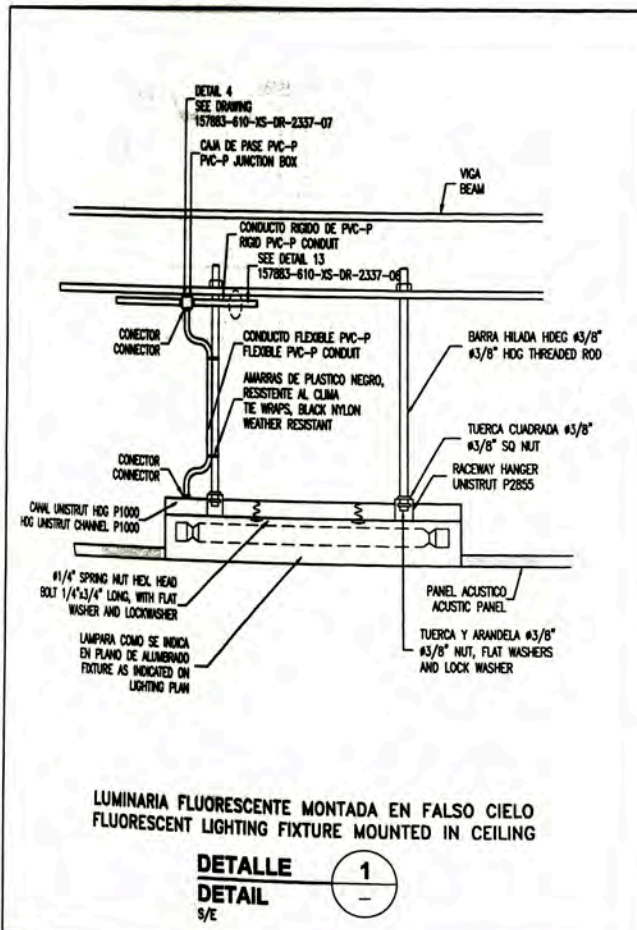


SECTION 21
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- NOTA/NOTE:**
- REFERENCIA: PLANO 157883-610-XS-DR-2330-03
REFERENCE: DRAWING 157883-610-XS-DR-2330-03 LOW VOLTAGE POWER LAYOUT
 - MARCADORES RUTA DE CABLE EN INTERVALOS DE 50 METROS Y CADA CAMBIO DE DIRECCION.
CABLE ROUTE MARKER, FOR INTERVALS OF 50 METERS AND EVERY CHANGE OF DIRECTION.
 - EL ESPESOR DE LA CAPA DE ARENA FINA POR ENCIMA Y POR ABAJO DEL CABLE SERA MINIMO DE 3(75mm).
THE THICKNESS OF THE LAYER OF FINE SAND ABOVE AND BELOW THE CABLE WILL BE AT LEAST 3 INCHES (75mm).
 - EL LISTADO DE CABLES ELECTRICOS SE MUESTRA EN 157883-610-XS-SH-0002
THE ELECTRICAL CABLE SCHEDULE IS SHOW IN 157883-610-XS-SH-0002
 - EL LISTADO DE CARGAS ELECTRICAS SE MUESTRA EN 157883-610-XS-SH-0001
THE ELECTRICAL LOAD SCHEDULE IS SHOW IN 157883-610-XS-SH-0001
 - CALCULO DE LA SECCION DE LOS CABLES EN DOCUMENTO 157883-610-XS-CC-0004
THE CABLE SIZING CALCULATIONS IS SHOW IN 157883-610-XS-CC-0004
 - FEEDED CABLE SIZE FOR LIGHTING CIRCUITS SEE DRAWING 157883-610-XS-CC-0039

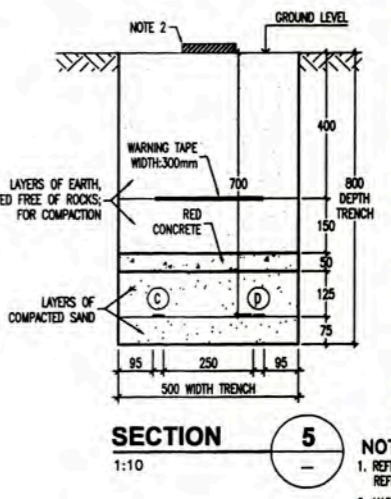
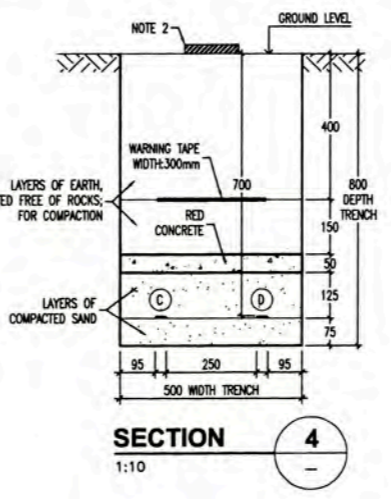
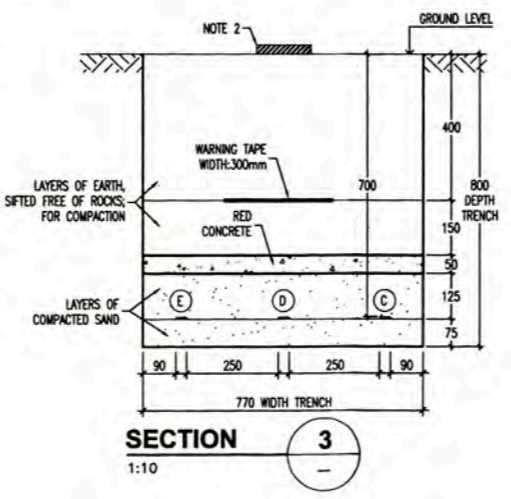
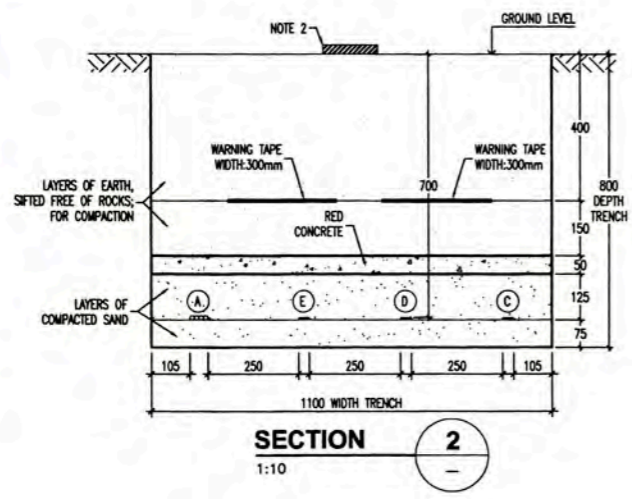
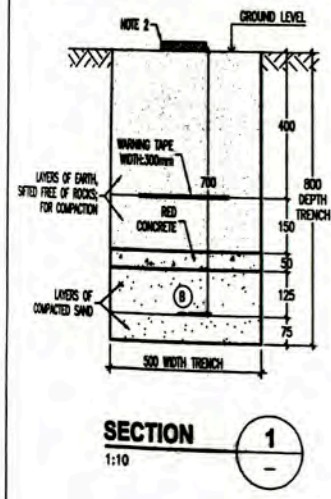


UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT	
PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING NO: 157883-610-XS-DR-2337-10	PROJECT NO: 1818	SHEET NO: 0
SPECIALTY: INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)	LOCATION: PAMPA MELCHORITA	DATE: 11/08/08	PROJECT NO: 1818
DRAWING BY: WPA DESIGNED BY: COU CHECKED BY: FTA APPROVED BY: JMG	PROJECT NO: 1818	SHEET NO: 0	SHEET NO: 0
PROJECT NO: 1818	SHEET NO: 0	SHEET NO: 0	SHEET NO: 0



157883-610-XS-DR-2331-01	LIGHTING DISTRIBUTION LAYOUT - 1 st GUEST HOUSE A-9009
157883-610-XS-DR-2131-01	LIGHTING DISTRIBUTION LAYOUT - GUARD HOUSE & GATE A-9008
157883-610-XS-DR-1431-03	LIGHTING DISTRIBUTION LAYOUT - MEDICAL CLINIC A-9007
157883-610-XS-DR-1431-02	LIGHTING DISTRIBUTION LAYOUT - DINING/MESS A-9008
157883-610-XS-DR-1431-01	LIGHTING DISTRIBUTION LAYOUT - COMMUNITY RECREATION CENTER A-9005
157883-610-XS-DR-1331-01	LIGHTING DISTRIBUTION LAYOUT - COMMUNITY WAREHOUSE A-9004
157883-610-XS-DR-1231-01	LIGHTING DISTRIBUTION LAYOUT - ROTATION STAFF HOUSING A-9002
157883-610-XS-DR-1131-01	LIGHTING DISTRIBUTION LAYOUT - MANAGEMENT STAFF HOUSING A-9001

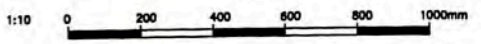
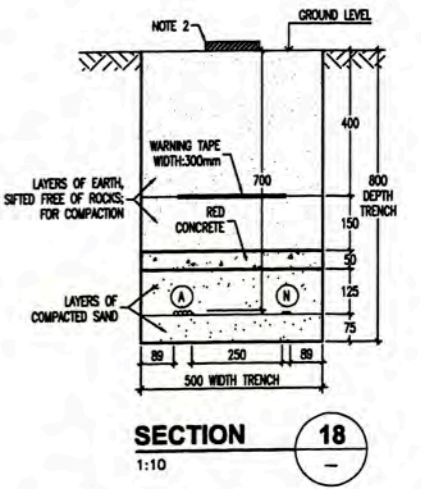
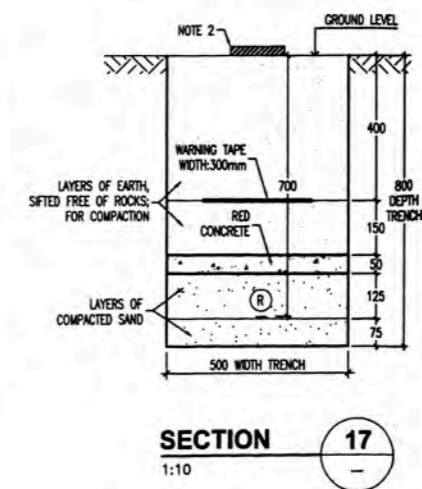
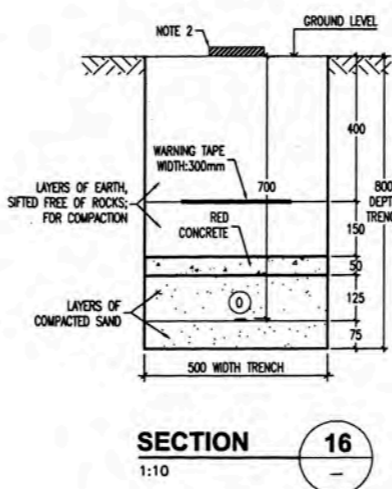
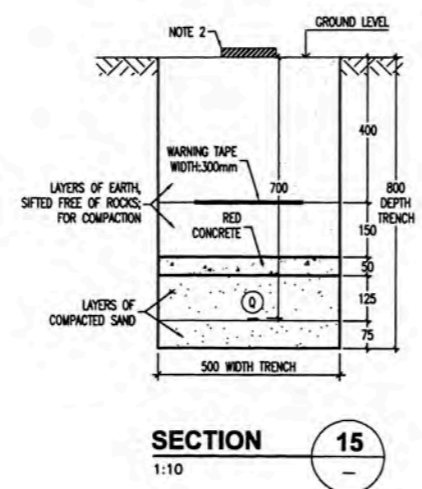
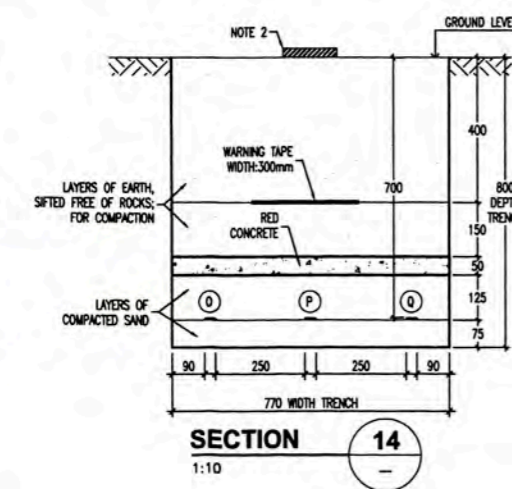
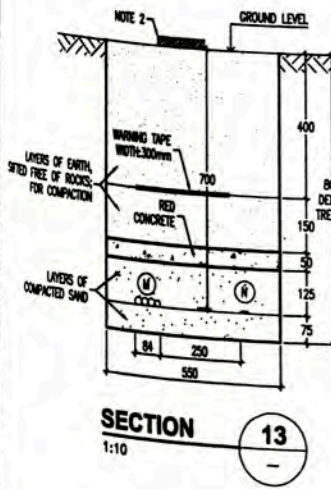
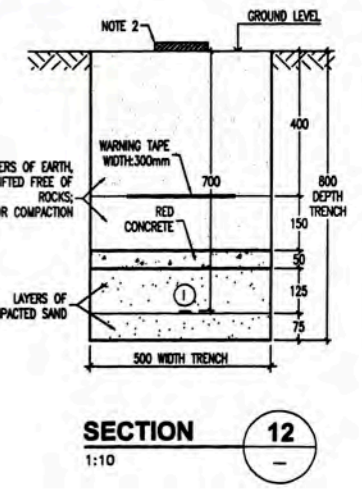
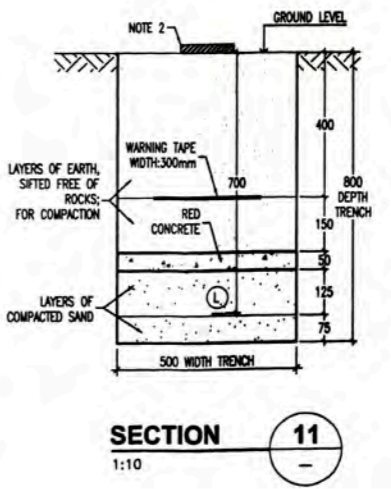
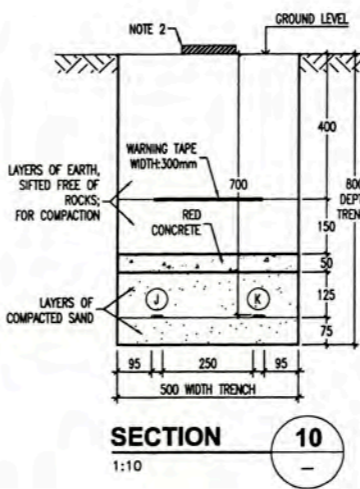
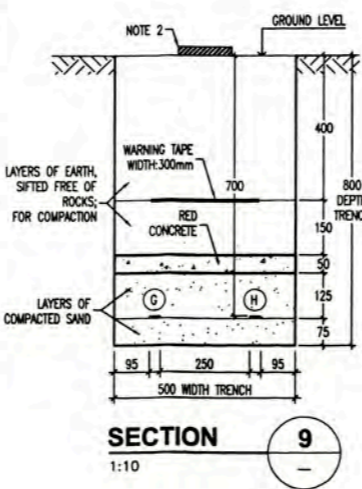
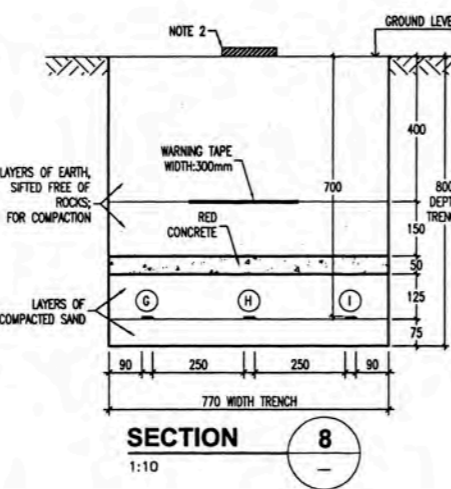
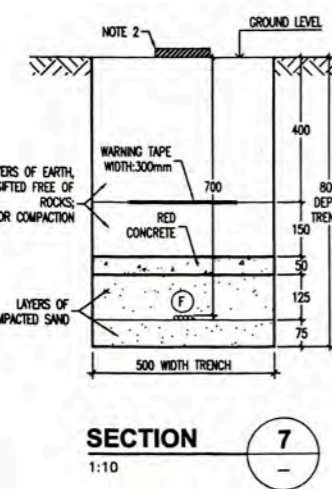
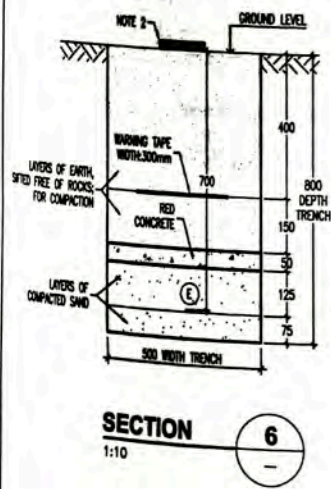
	UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE)		PERMANENT COMMUNITY BUILDINGS ELECTRICAL INSTALLATION DETAILS AND NOTES	
	PROJECT: PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS	DRAWING NO: WPA DESIGNED BY: COU CHECKED BY: INDICATED	REVISION BY: FTA PROJECT NO: 1618 DATE: 11/08/08	APPROVED BY: JMG REVISION: 0



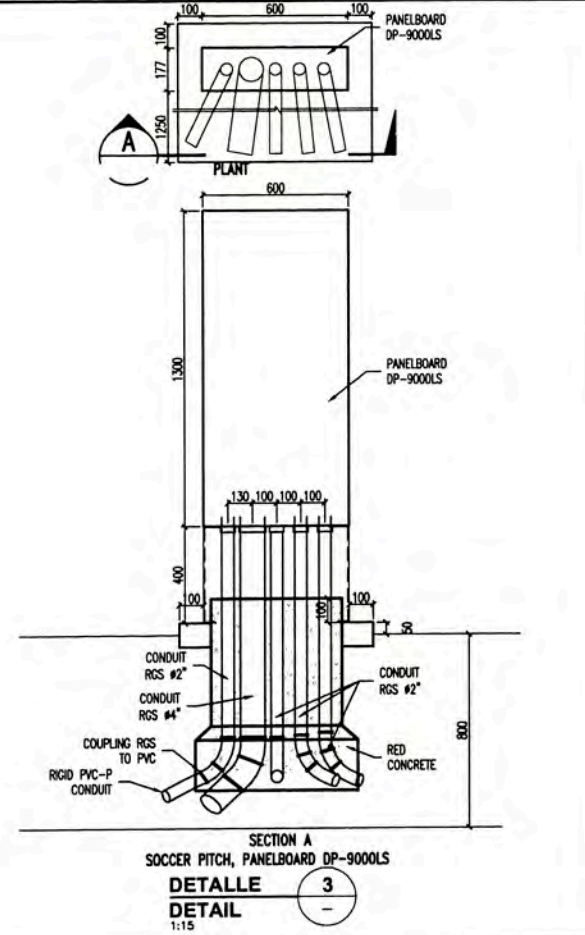
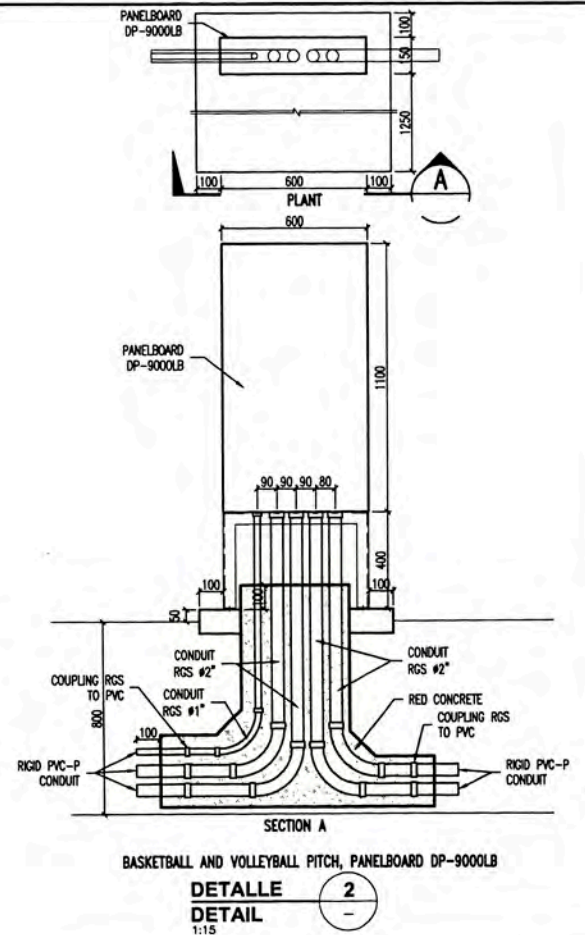
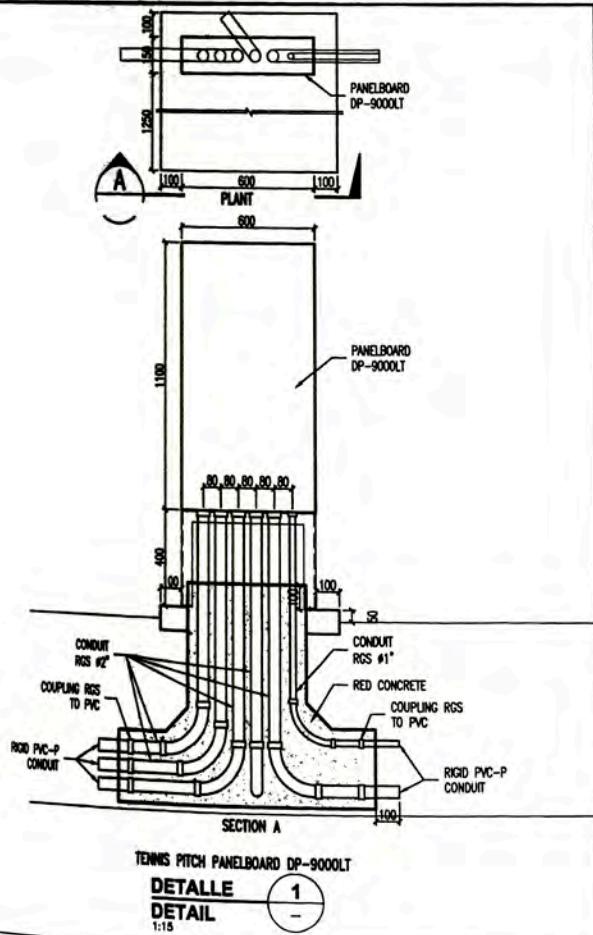
ELECTRICAL CABLES LIST	
Ⓐ	FEEDER C-2, DP-8005 : 3-1x35mm ² , NY(F) +1x35mm ² , NY(F) +1x2mm ² TW(G)
Ⓑ	FEEDER C-1, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓒ	FEEDER C-2, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓓ	FEEDER C-3, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓔ	FEEDER C-4, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓕ	FEEDER C-22, DP-8002-04 : 3-1x35mm ² , NY(F) +1x35mm ² , NY(F) +1x2mm ² TW(G)
Ⓖ	FEEDER C-2, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓗ	FEEDER C-3, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓙ	FEEDER C-4, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓚ	FEEDER C-2, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓛ	FEEDER C-3, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓜ	FEEDER C-1, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓝ	FEEDER C-5, DP-8002 : 3-1x150mm ² , NY(F) +1x2mm ² TW(G)
Ⓟ	FEEDER C-3, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓠ	FEEDER C-4, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓡ	FEEDER C-5, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓢ	FEEDER C-4, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)
Ⓣ	FEEDER C-1, DP-8000L2 : 3-1x25mm ² , NY(F) +1x25mm ² , NY(F) +1x2mm ² TW(G)

NOTA/NOTE:

- REFERENCIA PLANO 157883-610-XS-DR-2330-03
REFERENCIA DIBUJO 157883-610-XS-DR-2330-03 LOW VOLTAGE POWER LAYOUT
- MARCADORES RUTA DE CABLE EN INTERVALOS DE 50 METROS Y CADA CAMBIO DE DIRECCION.
CABLE ROUTE MARKER, FOR INTERVALS OF 50 METERS AND EVERY CHANGE OF DIRECTION.
CHANGE OF DIRECTION.
- EL ESPESOR DE LA CAPA DE ARENA FINA POR ENCIMA Y POR ABAJO DEL CABLE SERA MINIMO DE 3(75mm).
THE THICKNESS OF THE LAYER OF FINE SAND ABOVE AND BELOW THE CABLE WILL BE AT LEAST 3 INCHES (75mm).
- FEEDED CABLE SIZE FOR LIGHTING CIRCUITS SEE DRAWING 157883-610-XS-DR-2330-04



157883-610-XS-DR-0002		ELECTRICAL CABLE SCHEDULE		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIE)	PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS		PERMANENT COMMUNITY BUILDINGS		SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT VOLLEYBALL AND BASQUETBALL	
157883-610-XS-DR-2330-13		EXTERIOR LIGHTING LAYOUT OF TENNIS PITCH, SOCCER PITCH, BASKETBALL AND VOLLEYBALL PITCH			INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		157883-610-XS-DR-2337-12	
157883-610-XS-DR-2330-03		GROUNDING SYSTEM LAYOUT		INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		157883-610-XS-DR-2337-12		
157883-610-XS-DR-2337-04		PLANT GENERAL OUTDOOR LIGHTING DISTRIBUTION		INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		157883-610-XS-DR-2337-12		
157883-610-XS-DR-2337-02		SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT		INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		157883-610-XS-DR-2337-12		
157883-610-XS-DR-2330-03		PLANT GENERAL CABLE LOW VOLTAGE DISTRIBUTION		INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PAMPA MELCHORITA		157883-610-XS-DR-2337-12		



ISSUED FOR CONSTRUCTION SIGNATURE: _____ DATE: 14/12/08		157883-610-XS-SH-0002 157883-610-XS-DR-2330-15		ELECTRICAL CABLE SCHEDULE EXTERIOR LIGHTING LAYOUT OF TENNIS PITCH, SOCCER PITCH, BASKETBALL AND VOLLEYBALL PITCH		UNIVERSIDAD NACIONAL DE INGENIERIA FACULTAD DE INGENIERIA ELECTRICA Y ELECTRONICA (FIEE) PERU LNG EXPORT PROJECT PERMANENT COMMUNITY BUILDINGS INGENIERIA ELECTRICA (ELECTRICAL ENGINEERING)		PERMANENT COMMUNITY BUILDINGS SECTION FOR UNDERGROUND LOW VOLTAGE CABLE LAYOUT VOLLEYBALL AND BASQUETBALL PROJECT No: 1818 DATE: 11/08/08		157883-610-XS-DR-2337-13	
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