

GENERAL NOTES AND SPECIFICATIONS

- 1, ALL EQUIPMENT SHALL BE INSTALLED IN APPROXIMATE LOCATION AS SHOWN ON THE DRAWINGS.
- 2. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUPPORTED WITH VIBRATION ISOLATOR OR ASSEMBLIES AS SPECIFIED IN THE DRAWING.
- 3. INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SET WORK OR FINISH AS DETERMINED BY THE ARCHITECT
- SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.

 4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND CLEAN.
- 5. DEVIATIONS AND REVISIONS FROM PLANS SHALL BE REFERRED TO THE ARCHITECT FOR REVIEW AND APPROVAL
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHER WISE SPECIFIED.
- 7, ALL MECHANICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST MECHANICAL ENGINEER'S CODE, ASME, SMACNA AND ASHRAE STANDARD AND ALL ON SITE ACTIVITIES SHALL BE SUPERVISED BY A REGISTERED MECHANICAL
- MECHANICAL CONTRACTOR SHALL OBSERVED ALWAYS SAFETY AND CLEANLINESS.
 MECHANICAL CONTRACTOR SHALL VERIFY SITE CONDITION PRIOR TO INSTALLATION
- 10. ALL METAL SUPPORTS SHALL BE FULLY WELDED.
- 11. ELECTRICAL WORKS FROM EQUIPMENT TO LOOSE CONTROLLER/BREAKER (LOAD SIDE) SHALL BE BY MECHANICAL CONTRACTOR, ELECTRICAL WORKS (LINE SIDE) SHALL BE BY ELECTRICAL CONTRACTOR.
- 12. ALL AIR CONDITIONING UNITS SHALL BE PROVIDED WITH FILTER DRIERS.
 13. REFRIGERANT PIPING SHALL BE TYPE "L" HARD DRAWN SEAMLESS COPPER PIPE.
- 14. REFRIGERANT PIPE INSULATION SHALL BE CLOSED CELL ELASTOMERIC RUBBER INSULATION CLASS 0, WITH ADHESIVE BACKING, CLASS 0 RATING.
- 15, CONDENSATE DRAIN PIPE INSULATION SHALL BE CLOSED CELL ELASTOMERIC RUBBER INSULATION 20MM THK, CLASS 0 WITH ADHESIVE BACKING, CLASS 0 RATING.
- 16. THE CONTRACTOR SHALL ENSURE THAT EVERYTHING HAS BEEN VERIFIED AND 16. THE CONTINUE OF SHALL ENGINE THAT EVER'S THING HAS BEEN VERSITIED AND COORDINATED WITH ALL OTHER DISCIPLINE AS TO CONTRACTIBILITY, FUNCTIONALITY, AND MAINTAINABILITY OF THE EQUIPMENT AND UTILITIES IF ANY REASON, CONFLICT ARISES DUE TO CONTRACTORS FAILURE TO FOLLOW STANDARD SPECIFICATIONS AND GOOD ENGINEERING PRACTICES OR ITS LACK OF DUE
- DILIGENCE, ALL WORKS AS NECESSITATED SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT ADDITIONAL COST VARIATION ORDER TO THE OWNER 17. HANGERS AND SADDLES SHALL BE MADE OF SMOOTH SURFACE ROUND BARS MADE OF MILD STEEL, SIZING SHALL BE IN ACCORDANCE WITH THE PHILIPPINE
- MECHANICAL CODE. 18. ALL HVAC WORKS SHALL BE SUPERVISED BY A REGISTERED MECHANICAL
- ENGINEER OF GOOD STANDING
- 19. REFRIGERANT PIPES SIZES OF THE FCU TO ACCU ARE BASED ON MANUFACTURER'S RECOMMENDATIONS OR APPROVAL
- 20. INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURED'S RECOMMENDATIONS IN CASE OF SUBSTITUTION OF EQUIPMENT / MATERIALS SUBMIT BROCHURES, LITERATURES TO THE ARCHITECT FOR APPROVAL.

PIPING INSTALLATION NOTES

- 1. WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS (5 PSI) SHOULD BE PASSED THRU PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
- A, USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCER, ETC.
 B. JOINTS BETWEEN PIPES SHOULD BE THRU STANDARD COPPER COUPLING OF
- FORMED FITTING MADE BY FLARING TOOL.
 C, JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES FILTER
- DRIER, ETC. SHALL BE MADE WITH STANDARD FLARED.

 3, THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH GAS AND LIQUID LINE) TO A PRESSURE OF 500 TO 600 PSI USING DRY NITROGEN GAS, THIS PRESSURE SHOULD BE LEFT FOR 24 TO 48 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITH THE PERIOD, THE NITROGEN TO NO NOTICEABLE REDUCTION IN PRESSURE WITH THE PERIOD, THE NITROGEN CHARGE SHALL BE RELIEVE DOWN TO 20 PSI, TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE REDUCTION IN THE TEST PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.

 4. PROPERLY TESTED PIPING SHOULD BE SECURELY CAPPED AT BOTH END AND WITH
- HOLDING CHARGED AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT, INSULATE THE JOINTS OF PIPES AFTER APPROVED LEAK TESTING
- FESTING,
 5. ALL EXPOSED TO WEATHER INSULATED REFRIGERANT PIPES SHALL BE CLADDED WITH GA, 24 ALUMINUM SHEET.

EQUIPMENT SCHEDULE

SPLIT TYPE AIR CONDITIONING UNIT

UNIT DESIGNATION	QTY	AREA SERVED/LOCATION	INDOOR TYPE	CFM	TOTAL C	COOLING CAPACITY	REFRIGE	RANT LINE	REFRIGERANT	POWER INPUT	Р	OWER SUP	PLY	OPERATING WEIGHT (KG)	DEMARKS
	_	dE TVEGECOONTICH	77112	(MAX)	HP(TR)	BTU/HR (KW)	GAS	LIQUID	10	(kW)	V	PHASE	Hz	INDOOR/OUTDOOR	REMARKS
FCU/ACCU = 4.0 FS	15	DRESSING, LIGHTS, CCTV AND FUNCTION ROOMS	FLOOR STANDING	988	4(3)	34,100 (10)	15 96⊘	9 520	R - 32	3 48	230	THREE	60	50/48	ALL WATE INALL TO TWENTER SHALO NOW AND COMPLETE ELECTRONIC ROMOTE CONTROL WITH STANDARD ACCESSORIES
FCU/ACCU - 60 FS	18	COURT AREA	WALL MOUNTED	1170	6(5)	56,000 (16.41)	15 882	9 522	R - 32	6 24	230	THREE	60	51/101	READY FOR SERVICE DAKE, LG CAMPUR BAND OR ANNOUND FOLAL

FAN AND BLOWERS

UNIT DESIGNATION	QUANTITY	AREA SERVED/ LOCATION	FAN TYPE	AIRFLOW		POWER INPUT	PC	WER SUP	PLY	REMARKS
DESIGNATION		LOCATION		CFM	wg)	(WATTS)	٧	PHASE	Hz	
EF-1	49	TOILET	CEILING CASSETTE	100	0 64	30	230	SINGLE	60	ALL UNITS SHALL BE BRAND NEW, COMPLETE WITH
EF - 2	2	PUMP/EE ROOM	WALL EXHAUST	500	064	120	230	SINGLE	60	STANDARD ACCESSORIES WITH VENTILATION END CAF READY FOR SERVICE
EF-3	35	EE - ROOM	WALL EXHAUST	5600	0.64	1200	230	SINGLE	60	

	LEGEND & ABE	BREVIATIONS	i
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
36	AND	MM	MILLIMETER
0	AT	М	METER
ACCU	AIR COOLED CONDENSING UNIT	V	VOLTS
FCU (WM)	FAN COIL UNIT WALL MOUNTED	Hz	HERTZ
FCU (FS)	FAN COIL UNIT FLOOR STANDING	KG	KILOGRAM
kW	KILOWATTS		PANEL BOARD
BTV	BRITISH THERMAL UNIT	HP	HORSEPOWER
COP	CUBIC FEET PERMINUTE	EF	EXHAUSTFAN
CFM	COEFFICIENT OF PERFORMANCE	SF	SUPPLY FAN

PRC REG. NO. 0003582 VALID UNTIL OCT 06, 2021 PTR NO. AC-2196355 DATE ISSUED JAN. 2, 202 ISSUED AT ANGELES CITY TIN: 171-934-178

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE

CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES ,REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN,

PROJECT TITLE/LOCATION:

AS SHOWN

SHEET CONTENTS:

JOHN JERICHO G. LADRINGA Q SANTOS am DATE:

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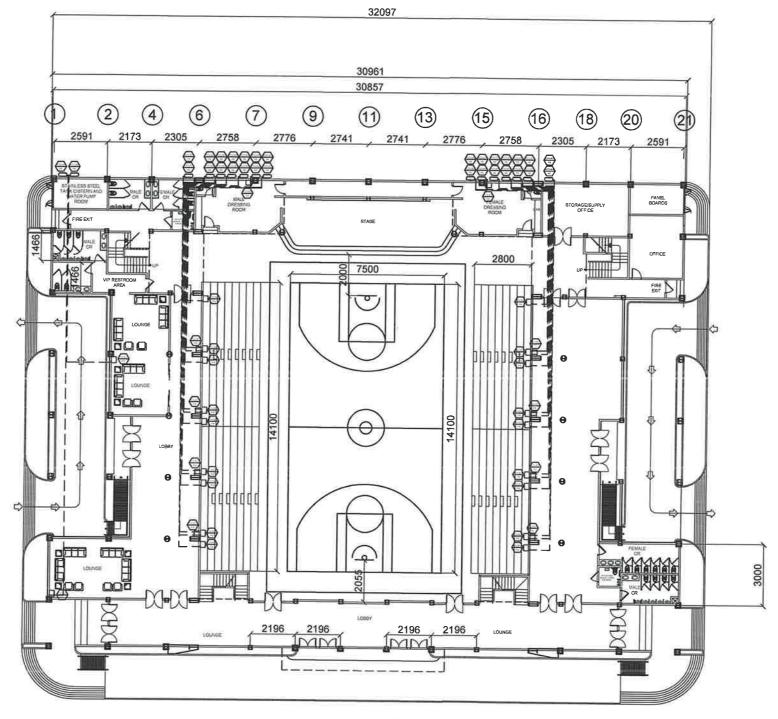
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ROSELLER A. TOLENTINO

PPROVED:

SET NO: SHEET NO M1-1 66 89

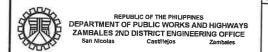
CASTILLEJOS, ZAMBALES



AIR CONDITIONING SYSTEM LAYOUT GROUND FLOOR PLAN

SCALE 1:200

FERNANDO L. FRANCISCO JR.
PROFESSIONAL MECHANICAL ENGINEER
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PTR NO. AC-2196355 DATE ISSUED JAN. 2, 2025
ISSUED AT ANGELES CITY TIN: 171-934-178



PROJECT TITLE/LOCATION:

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BASIC INFRASTRUCTURE PROGRAM (BIP).

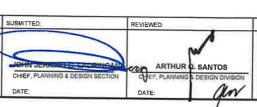
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES , REHABILITATION OF MULTI-PURPOSE BUILDING,
PHASE 2, BARANGAY SAN JUAN,

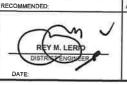
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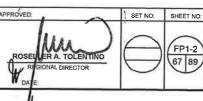
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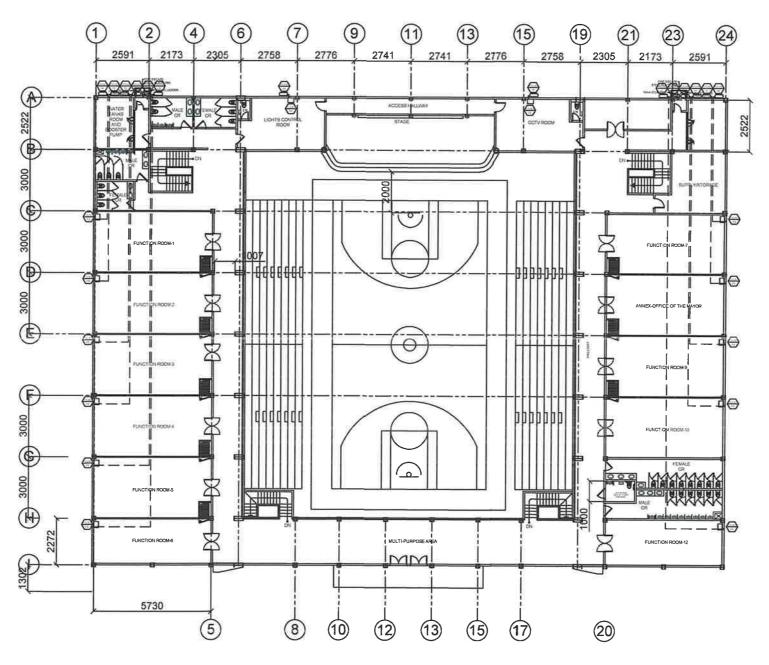
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DATE:









AIR CONDITIONING SYSTEM LAYOUT SECOND FLOOR PLAN M - 1

PREPARED:

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillejos Zambales

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CASTILLEJOS, ZAMBALES

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AS SHOWN

REVIEWED: CHIEF, PLANNING & DESIGN SECTION ARTHUR 2 SANTOS DATE

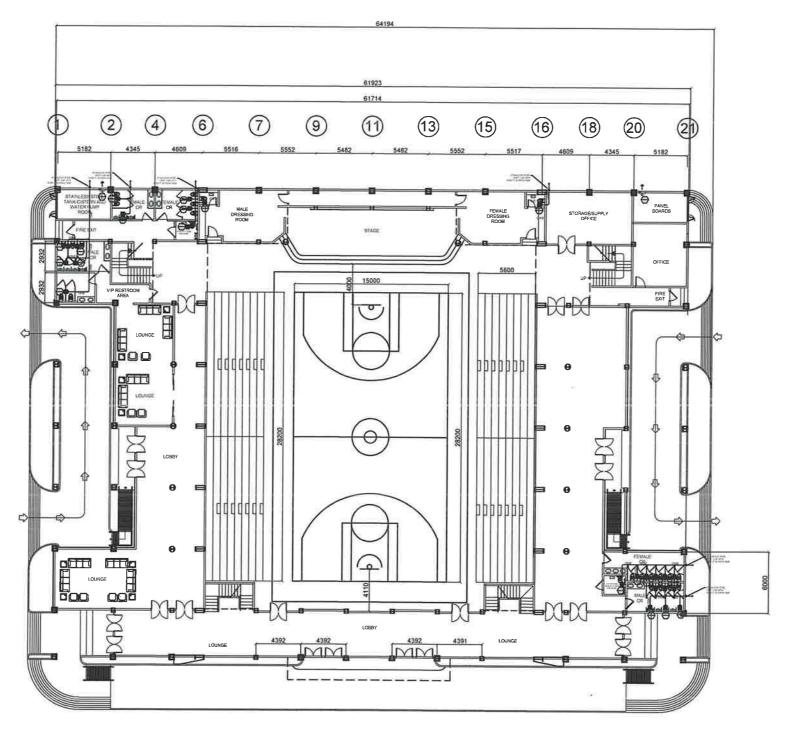
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RECOMMENDED:

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ROSELUR A. TOLENTINO
REGIONAL DIRECTOR
DATE

SHEET NO: M1-3 68 89



VENTILATION SYSTEM LAYOUT GROUND FLOOR PLAN
SCALE 1:200

PREPARED:

FERNANDS L. FRANCISCO ... R. PROFESSIONAL MECHANICAL ENGINEER
PRC REG. NO. 0003582 VALID UNTIL OCT 06, 2027
PTR NO. AC-2196355 DATE ISSUED JAN. 2, 2025
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PHASE 2, BARANGAY SAN JUAN,

CASTILLEJOS, ZAMBALES

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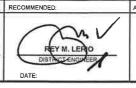
SUBMITTED.

REVIEWED:

ARTHURQ. SANTOS
CHIEF, PLANNING & DESIGN DIVISION
DATE:

DATE

DATE



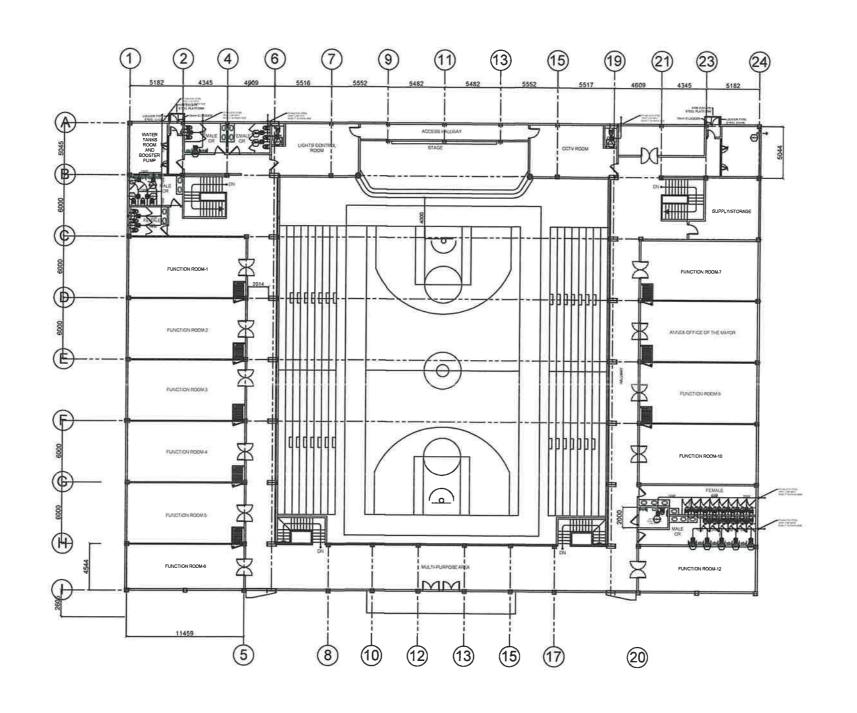
ROSELLENA, TOLENTINO
REGIONAL DIRECTOR

DATE

SET NO: SHEET NO:

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ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
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CASTILLEJOS, ZAMBALES

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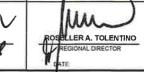
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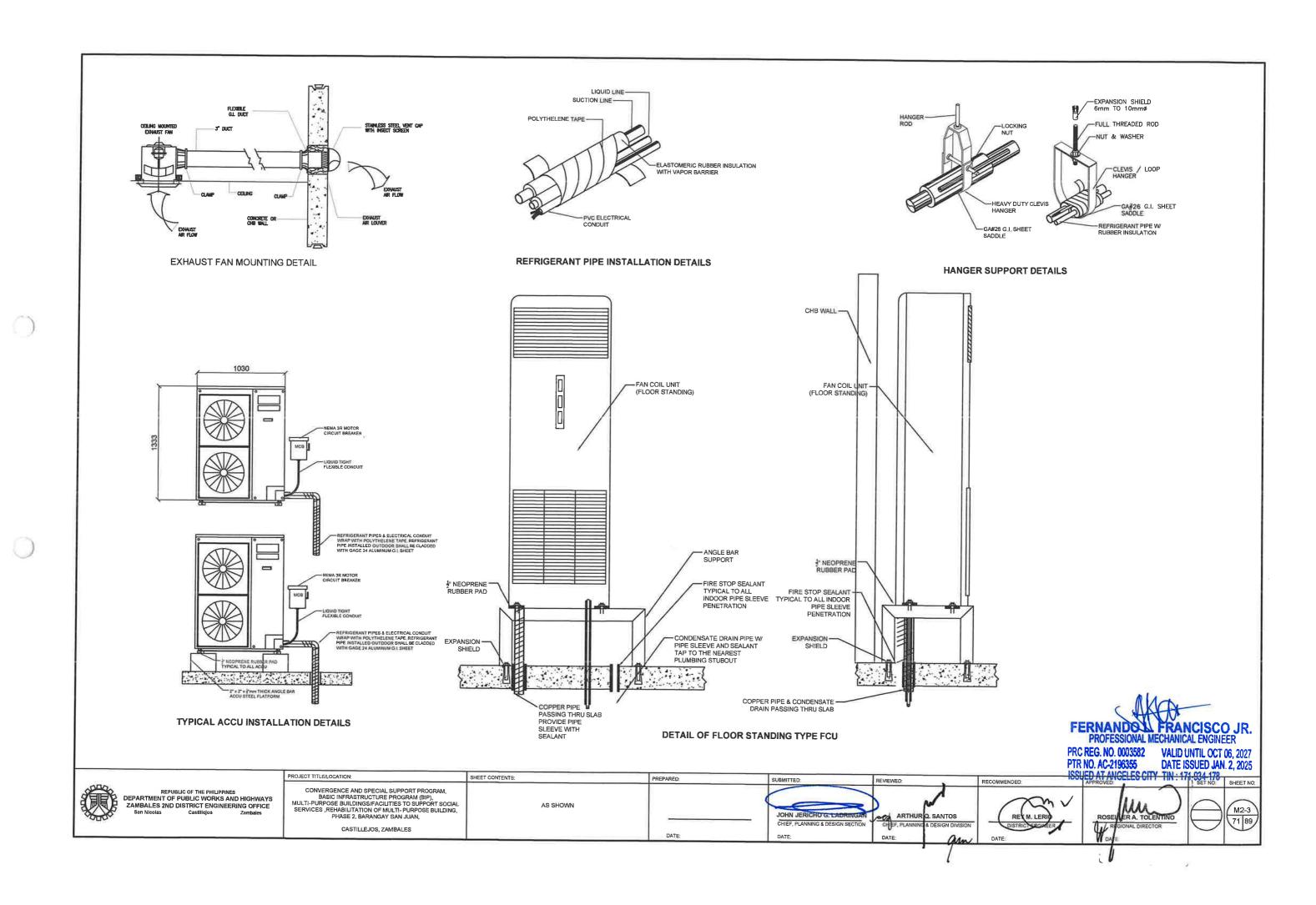
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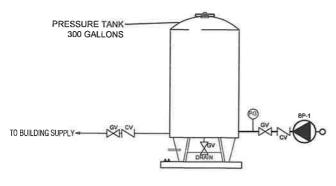
EQUIPMENT SCHEDULE

WATER PUMP

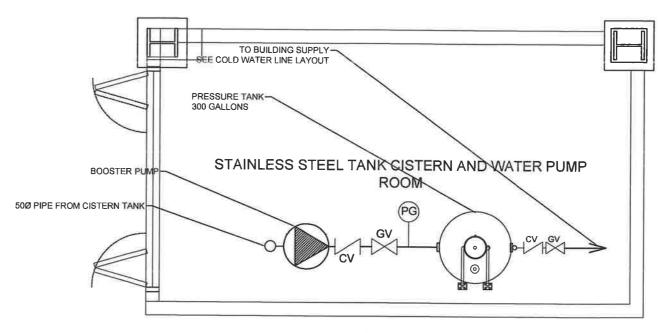
DESIGNATION	QTY.	CAPA	CITY	TYPE	TDH	RPM		ELECTRI	CAL DATA		LOCATION	
220/0/1/1/0/(G. I.	LPM	GPM	1112	METER(FT)	KEW	kW(HP)	VOLTS	PHASE	HERTZ	LOCATION	REMARKS
BP - 1	1	378.5	100	END SUCTION CENTRIFUGAL	35(113)	2950	4.72(5)	230	3	60	PUMP ROOM	ALL UNITS SHALL BE BRAND NEW AND COMPLETE WITH STANDARD ACCESSORIES, COMPLETE CONTROLLER SETUP

WATER TANK

DESIGNATION	ОТУ	CAPACITY LITERS	TYPE	PRESSU	IRE (PSI)	DIMENSIO	NS (mm)	
DESIGNATION	QII.	(GALLONS)		CUT IN	CUT OUT	DIAMETER	LENGTH	REMARKS
PT - 1	1	1,136(300)	PRESSURE TANK	20	40	533	1,500	BRAND NEW AND OF THE APPROVED TYPE, COMPLETE WITH STANDARD ACCESSORIES, READY FOR SERVICE







WATER PUMPING SYSTEM PUMP ROOM FLOOR PLAN

FERNANDO L. FRANCISCO JR. PRC REG. NO. 0003582 VALID UNTIL OCT 06, 2027
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San Nicolas Castillejos Zambales

PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM,
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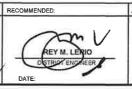
CASTILLEJOS, ZAMBALES

AS SHOWN

PREPARED:

SHEET CONTENTS:

REVIEWED: ARTHUF Q. SANTOS
CHEF, PLANNING & DESIGN DIVISION
DATE:





SET NO: SHEET NO: M2-4 72 89

GENERAL NOTES AND SPECIFICATION:

ALL WORKS SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES NO. 10, 13 & 20, NATIONAL FIRE BUILDING CODE OF THE PHILIPPINES.

2. ALL SPRINKLER HEADS AND SPARES SHALL BE THE SAME TYPE AND BRAND FOR DROP CEILING INSTALLED, INSTALLED PENDENT TYPE SPRINKLER HEADS WILL BE SAME TYPE OR BRAND AS WHAT HAVE BEEN.

3, PROVIDE PENDENT SPRINKLER HEADS ON AREA WITH CEILING AND UPRIGHT SPRINKLER HEADS ON AREA WITHOUT CEILING

 $4\,{:}ALL$ ADDITIONAL/RELOCATED BRANCH LINES AND DROPS SHALL BE B.I., PIPE SCHEDULE 40 AND PROVIDE ADEQUATE PIPE HANGER,

5. MAXIMUM COVERAGE AREA OF A SPRINKLER HEAD IS EQUAL TO 130 SQ. FEET.

6. DISTANCE OF SPRINKLER HEAD (PENDENT OR UPRIGHT) TO A WALL OR HIGH PARTITION MUST NOT EXCEED 1500

 $7_{\circ} \text{MAXIMUM DISTANCE OF A SPRINKLER UNIT FROM THE SLAB SHOULD BE 300mm.}$

8, ALL PIPE LINE SHALL BE B.I. PIPE SCHEDULE 40 AND TO BE SUBJECTED TO HYDROSTATIC TEST SHALL BE 1.5 TIMES THE WORKING PRE NO VISIBLE LEAKAGE FOR INSIDE SPRINKLER PIPING SHALL BE ALLOWED.

9, ALL WORKS SHALL BE EXECUTED IN-CLOSE COORDINATION WITH ALL OTHER TRADES, THE ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF

EXACT LOCATION OF THE SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING LAYOUT AND SHALL BE SUBJECTED TO ARCHITECTS &

10, LOCATION OF DRAIN PIPES FOR INSPECTORS TEST AND DRAIN VALVES SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR.

11. FIRE/JOCKEY PIMP, WATER FLOW SWITHCES, MONITOR SWITCHES ELECTRICAL CONNECTION SHALL BE DONE BY THE FIRE PROTECTION CONTACTOR UP TO THE CONTROL PANEL & SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR

12. MINIMUM PIPE SIZE FOR ALL SPRINKLER HEAD SHALL BE 25MMØ UNLESS OTHERWISE NOTED AND ALL PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE

13, PIPES AND FITTINGS CONNECTION UP TO 50MMØ SHALL BE SCREWED AND PIPES AND FITTINGS CONNECTION FROM 65MMØ AND ABOVE SHALL BE WELD JOINTS UNLESS OTHERWISE NOTED,

14. PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS, WALLS & BEAMS, AND FIRE SEALANT SHALL BE THE SAME FIRE RATING OF

15. PROVIDE HANGERS IN BRANCHLINE EVERY 2.5MTRS FOR 25MM, 32MM, 40MM, &

16, PROVIDE SWAY BRACE EVERY 4 METERS FOR 75MM CROSSMAIN DIA, PIPES, 100MM/150MM DIAMETER FEEDMAIN PIPES.

17. MOTOR HORSEPOWER SHOWN IN EQUIPMENT SCHEDULE WERE USED IN SIZING OF ELECTRICAL FEEDERS. EQUIPMENT & MOTORS WHICH ARE MORE EFFICIENT (LESS HORSEPOWER INPUT) ARE ACCEPTABLE PROVIDED THEY COULD DELIVER THE REQUIRED WATER FLOW AND PRESSURE

18. ALL PIPE SHALL BE MARKED ALONG ITS LENGTH IN SUCH A WAY AS TO PROPERLY IDENTIFY THE TYPE OF PIPE.

1. FIRE LINES - FIRE LINES SHALL BE BLACK IRON (B.I.) PIPES SCHEDULE 40 "STANDARD" CONFORMING TO ASTM A-120-1980 2. SPRINKLER HEADS - ALL SPRINKLER HEADS PENDENT (CONCEALED, UPRIGHT & SIDEWALL SHALL BE RATED 74°C (165°F)-

PIPE SIZING SCHEDULE

LIGHT HA	AZARD
PIPE SIZE DIAMETER (MM)	NO, OF HEADS
25MM	2
32MM	3
40MM	5
50ММ	10
65MM	30
75MM	60
89MM	100

BBREVIATION: AUTOMATIC AIR VENT FIRE DEPARTMENT CONNECTION FROM ABOVE AUTOMATIC FIRE SPRINKLER SYSTEM CHECK VALVE FROM BELOW GALLONS PER MINUTE WATER FLOW SWITCH LITERS PER MINUTES LITERS PER SECOND PRESSURE REDUCING/ RESTRICTING RELIEF VALVE (OUT SIDE&YOKE) GATE VALVE RISER NIPPLE FIRE HOSE CABINET TO ABOVE TO BELOW PORTABLE FIRE EXTINGUISHER WATER FLOW SWITCH RISER NIPPLE ALARM CHECK VALVE FIRE HOSE VALVE PRESSURE RELIEF VALVE

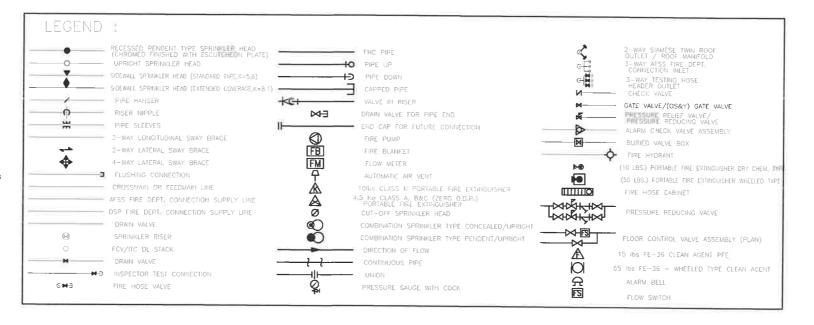
FLOW MEASURING DEVICE

INSPECTOR TEST CONNECTION

DRAIN LINE

SCHEDULE OF EQUIPMENTS

EQUIPMENTS	SPECIFICATIONS	QUANTITY
ELECTRIC DRIVEN FIRE PUMP—1 UL LISTED/FIM APPROVED	500 GPM VS 233 FT,TDH (101 PSIG) APPROX. 50 HP,SHALL BE VERTICAL TURBINE MULTI-STAGE, COMPLETE WITH SUCTION FOOT VALVE AND VERTICALY MOUNTED ELECTRIC MOTOR, SETTING OF PUMP BOM. COLUMN AND SHAT ASSEMBLY INCLUDING SUCTION STRAINER SHALL BE ARRANGE FOR A MAXAMUM OF 10 FT, DEPTH, THE PUMP SHALL BE SUPPLIED WITH ALL ACCESSORIES TO INCLUDE CONTROLLERS, CIRCUIT BREAKERS, STARTERS, TRIMS AND ITS ACCESSORIES TO COMPLETE THE WORKS. CUT IN: 95 PSIG, CUT OFF: MAMUAL	1-SET COMPLETE WITH ACCESSORIES MOUNTED INSIDE PUMP ROOM AT GROUND FLOOR
CONTROLLER UL LISTED / FM APPROVED	FIRE PUMP CONTROLLER SHALL BE WYE DELTA REDUCED VOLTAGE STARTING OPEN CIRCUIT IN WHICH THE MOTOR CIRCUIT IS OPEN DURING THE TRANSITION FROM START TO RUN, SIMILAR TO "HERROL" FT1300 MODELOR EQUAL CONTROLLER TO BE FLOOR OR WALL MOUNTED ON NEWS TYPE 4 EMCLOSURE TO INCLUDE PUMP OPERSTAING PULOT LIGHT. "PUMP FALL TO START" AND "PUMP OVERLOAD", ALARM, TEST TIMER WITH DRAIN AND SOLENOID VALVE.	1-SET COMPLETE WITH ACCESSORIES MOUNTED INSIDE PUMP ROOM AT GROUND FLOOR
Jockey Pump -1	30 CPM. VS. 280 FT,TDH (121 PSIG), APPROX. 5.0 HP, SHALL BE VERTICAL TURBINE, SUBMERSIBLE, MULTI-STAGE COMPLETE WITH ACCESSORIES TO INCLUDE CONTROLLERS, CIRCUIT BREAKERS, STARTER, CONTACTORS, TRIMS AND ITS ACCESSORIES TO COMPLETE CUT IN: 125 PSIG, CUT OFF: 135 PSIG	1-SET COMPLETE WITH ACCESSORIES MOUNTED INSIDE PUMP ROOM AT GROUND FLOOR
CONTROLLER UL LISTED / FM APPROVED	JOCKEY PUMP CONTROLLER SHALL BE SIMILAR TO "FIRETROL" FT.— A 500	1-SET COMPLETE WITH ACCESSORIES MOUNTED INSIDE PUMP ROOM AT GROUND FLOOR



PREPARED:

DATE

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ZAMBALES 2ND DISTRICT ENGINEERING OFFICE

CONVERGENCE AND SPECIAL SUPPORT PROGRAM. DANCENGENCE AND SPECIAL COFFOR THE COMMISSION,
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MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
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PROJECT TITLE/LOCATION:

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ARTHUR Q. SANTOS an

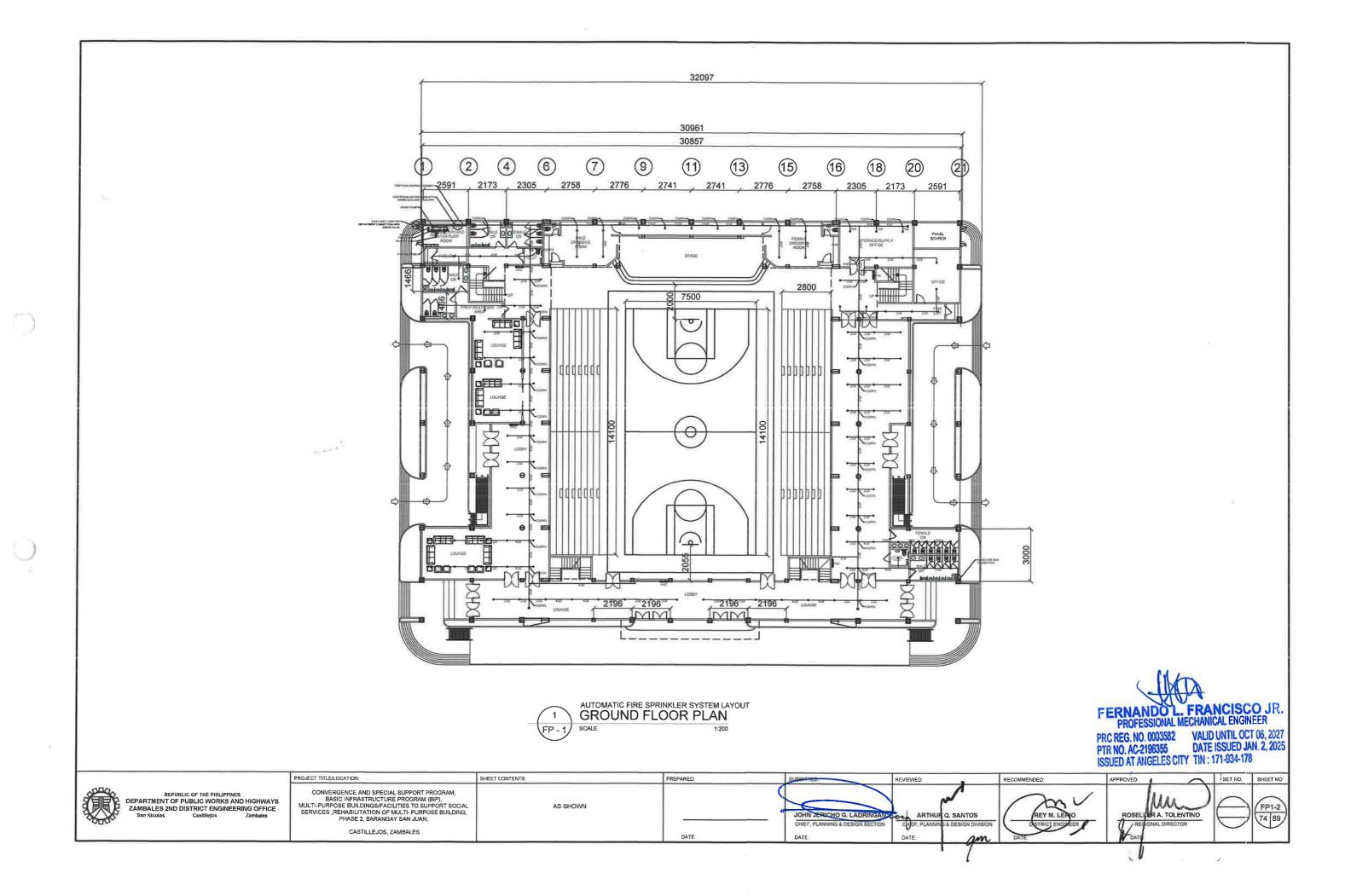
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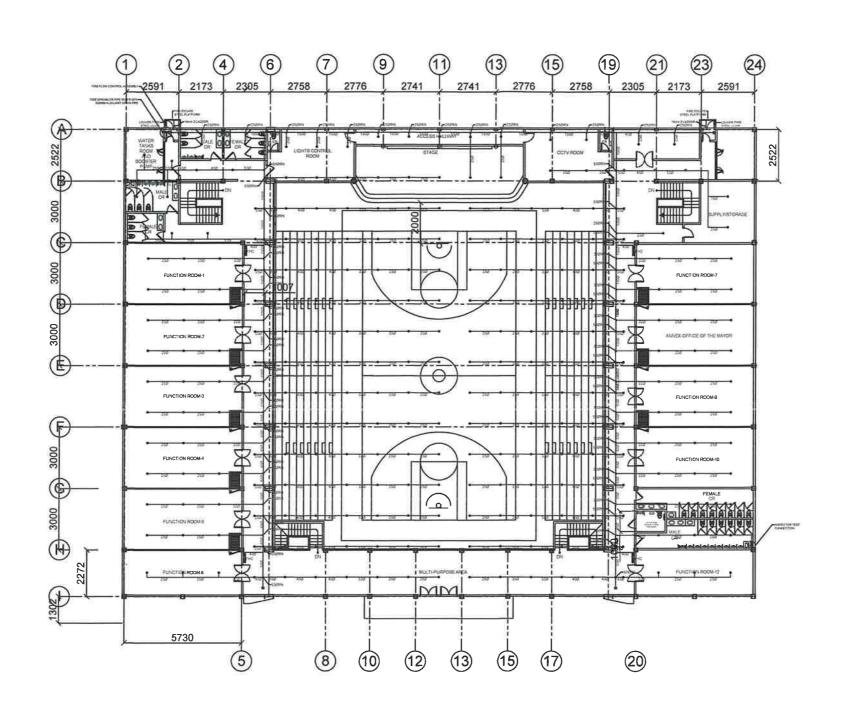
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SET NO: SHEET NO FP1-1 73 89

CASTILLEJOS ZAMBALES







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VALID UNTIL OCT 06, 2027 DATE ISSUED JAN. 2, 2025 PTR NO. AC-2196355 DATE ISSUED JAN ISSUED AT ANGELES CITY TIN: 171-934-178 SHEET NO:



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ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillelos

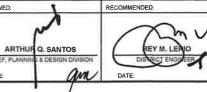
PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES ,REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN,

CASTILLEJOS, ZAMBALES

AS SHOWN

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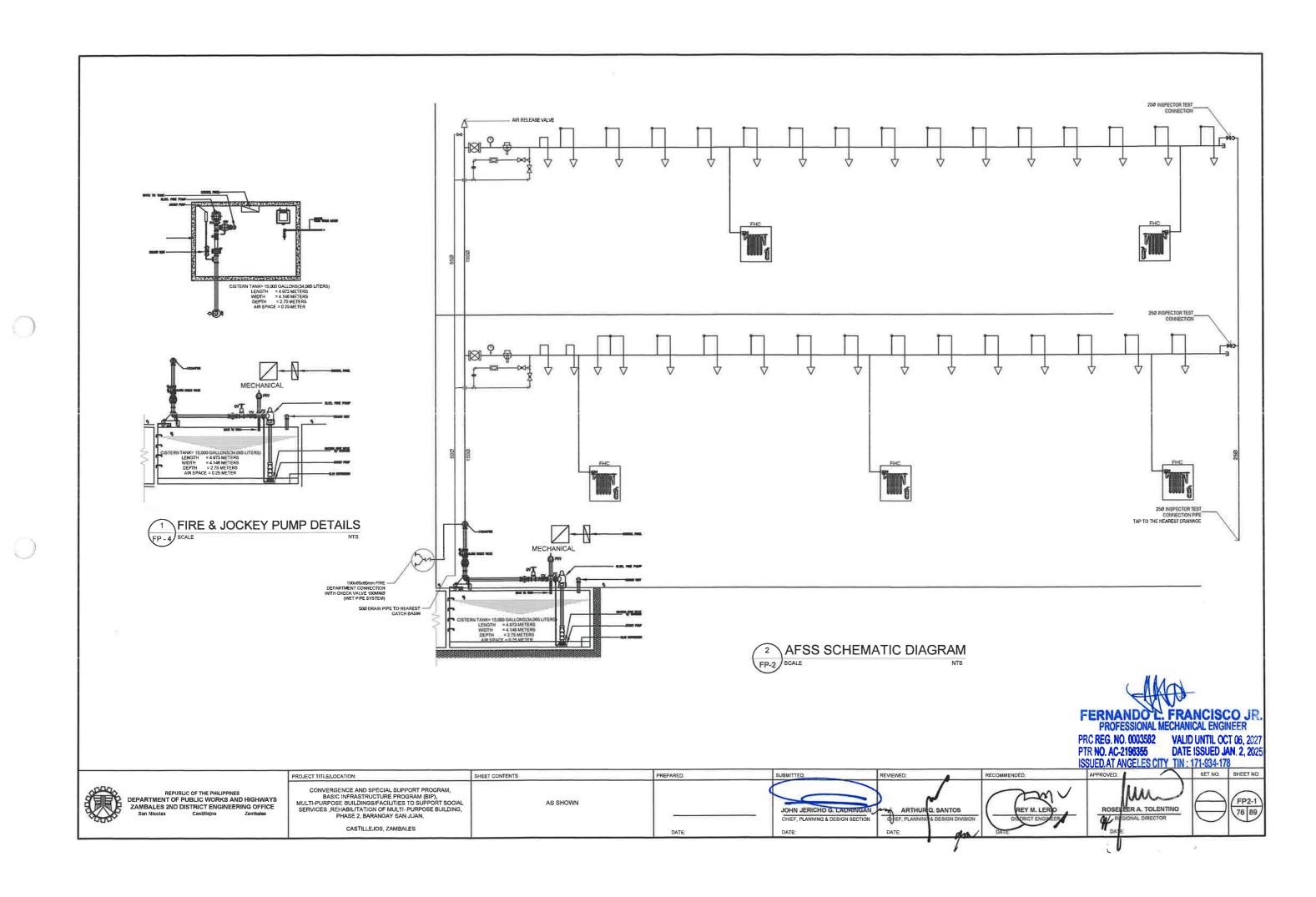


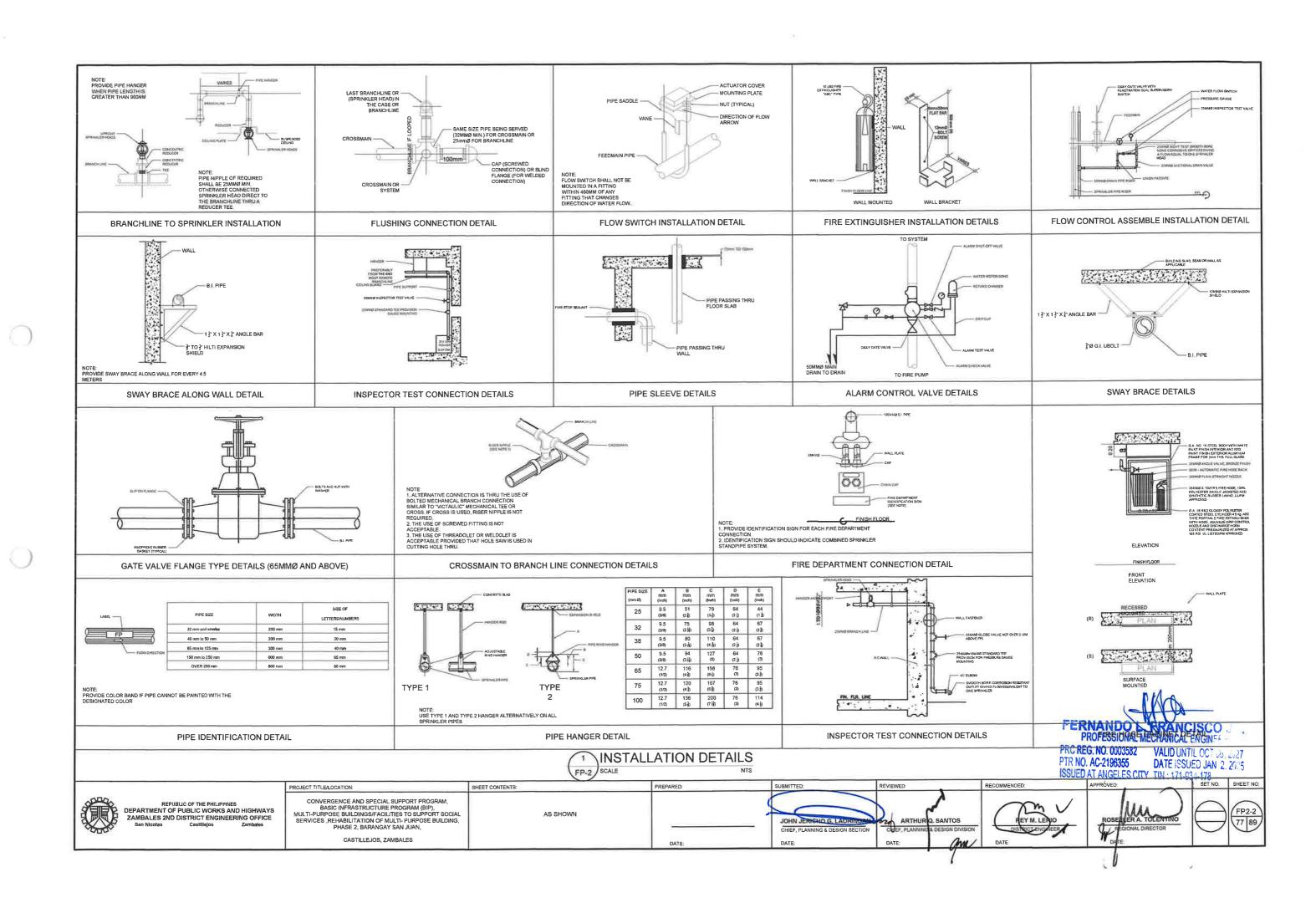


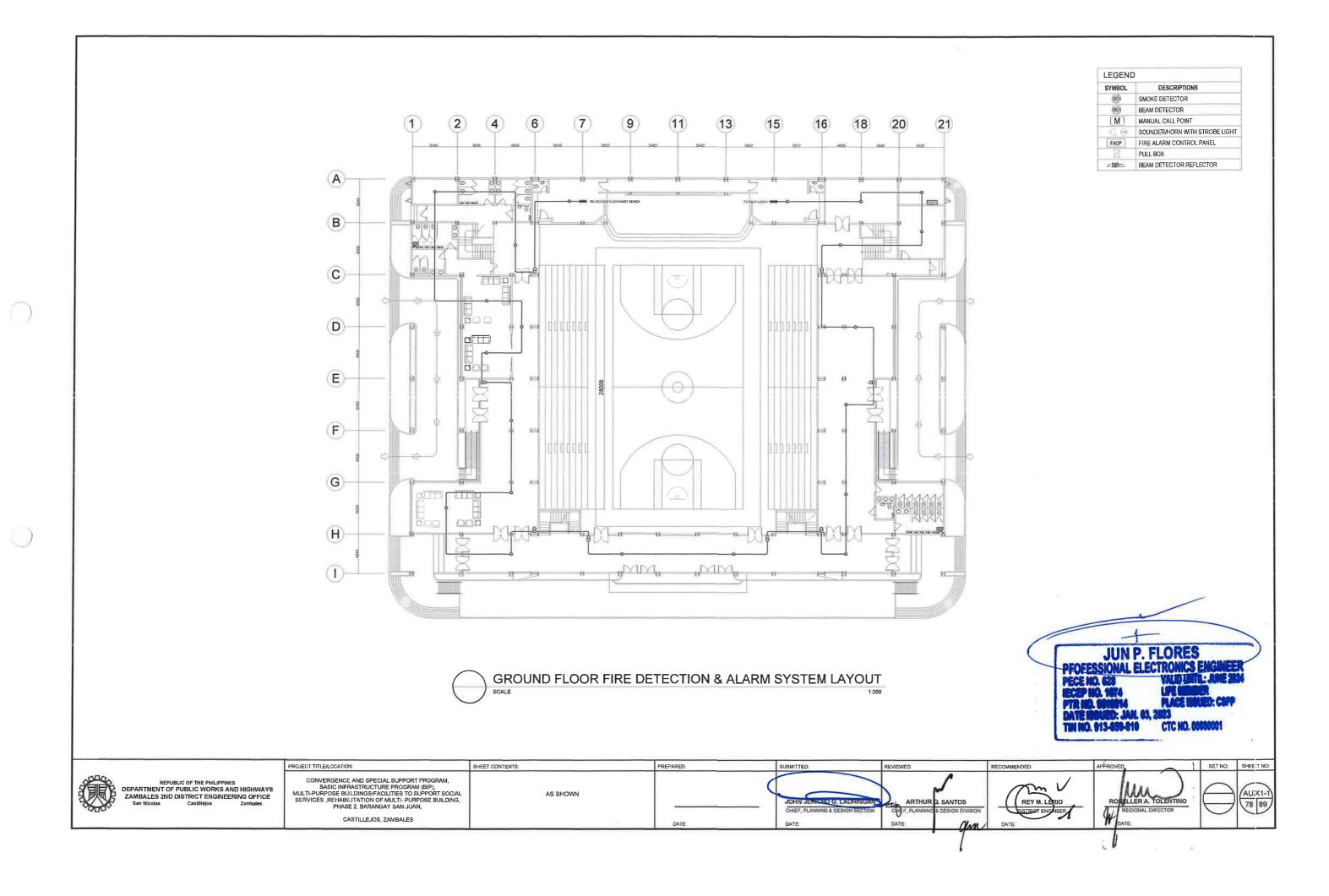


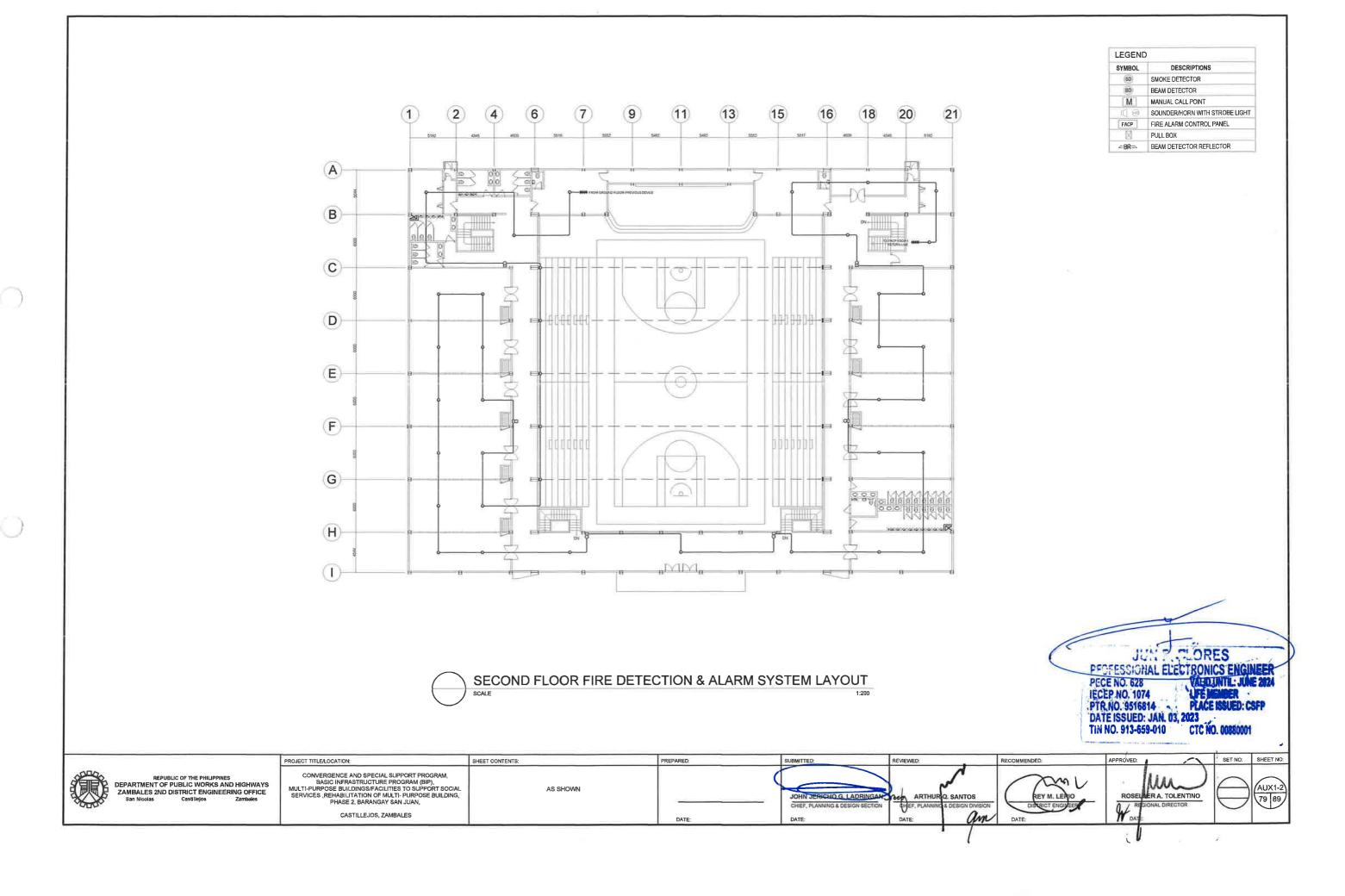
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GENERAL NOTES

1) ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED 2) ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH NFPA 72-2010 STANDARD REQUIREMENT

3) ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL FIRE CODE RA 9514 AND NATIONAL BUILDING CODE 4) SIGNALING LINE CIRCUIT (SLC) CABLE SHALL BE 2C-16AWG TWISTED PAIR IN COMMUNICATION RACEWAYS

5) ZONE INTERFACE MODULE (ZIM) SHALL BE 2C-18AWG TWISTED PAIR CABLE IN 20mm DIA. CONDUIT
6) FIRE NOTIFICATION APPLIANCE CIRCUIT (NAC) SHALL BE 2C-16AWG TWISTED PAIR CABLE IN 20mm DIA. CONDUIT

7) CLASS "A" CIRCUIT WIRING SHALL BE FOLLOWED AND APPLIED TO ALL SIGNALLING LINE CIRCUIT (LOOP). AND SUPERVISED CLASS "B" TO ALL NOTIFICATION AND ZONE WIRING. T-TAP TERMINATION IS NOT PERMITTED.

B) UNLESS OTHERWISE INDICATED IN THE DRAWINGS, MINIMUM SIZE OF CONDUIT SHALL BE 20mm DIA.
 9) CONDUITS SHALL HAVE PROTECTIVE BUSHING PLACED AT ALL CONNECTION POINT TO PREVENT DAMAGE TO CABLES.

10) ALL CONDUIT RUNS SHALL NOT EXCEED 30 METERS OR TWO (2) 90 DEGREES BENDS. OTHERWISE, PULLBOXES ARE REQUIRED.

REQUIRED.

11) ALL CEILING MOUNTED DEVICES SHALL BE INSTALLED WITH MINIMUM OF 15 mm DIA. FLEXIBLE CONDUIT

12) AT A MINIMUM, THE REQUIREMENTS OF CHAPTER 14 INSPECTION, TESTING AND MAINTENANCE OF NFPA 72-2010

SHALL BE FOLLOWED. TO KEEP FIRE ALARM SYSTEM IN EXCELLENT WORKING ORDER, ONGOING MAINTENANCE IS

REQUIRED PER THE MANUFACTURER'S RECOMMENDATIONS

13) AT A MINIMUM, SPACING BETWEEN ELECTRICAL LIGHTS SHALL BE 300mm AND 910mm FROM HVAC SUPPLY DIFFUSER

14) ALL DEVICES, EQUIPMENT, MATERIALS SPECIFICATION & REQUIREMENTS SHALL BE READ IN CONJUNCTION TO PROJECT SPECIFICATION & ELECTRONICS SAFETY OR SECURITY.

15) DEVICE INSTALLATION: 15.1 MANUAL STATION = 1450mm A.F.F.L

152 HORN STOBE = 2300mm A.F.F.L OR 150mm BELOW F.C.L IF HEADROOM IS BELOW 2200mm 15.3 FIREMAN'S TELEPHONE = 1450mm A.F.F.L

15.3 FIREMAN'S TELEPHONE = 1490mm A.F.F.L

15.4 FACP/REPEATER = 1800mm A.F.F.L @ TOP

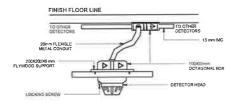
15.5 ZIM = CEILING/FLUSH MOUNTED IN SQUARE BOX

15.6 CAMERA WALL = 3500mm A.F.F.L

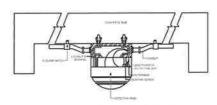
16) FIRE ALARM SYSTEM SHALL BE CONFIGURED AS ADDRESSABLE SYSTEM COMPLETE WITH BUT NOT LIMITED TO THE

FF: 16,1 FACP SHALL BE ADDRESSABLE EXPANDABLE TYPE WITH MINIMUM IF 4X LOOP (SLC) & 4X NAC

16.2 FOR ALL ROOMS: SPOT TYPE SMOKE AND HEAT DETECTOR SHALL BE ADDRESSABLE TYPE 16.3 HORN/STROBE SHALL BE TERMINATED IN SEPARATE NOTIFICATION CIRCUIT AVAILABLE AT FACP FOR EASY

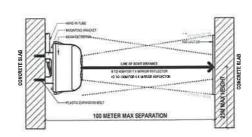


SMOKE/HEAT DETECTOR MOUNTING DETAIL



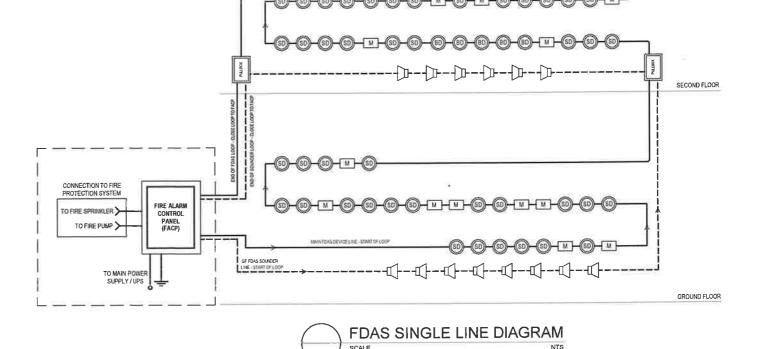
SMOKE/HEAT DETECTOR MOUNTING DETAIL WITH CONDUITS EXPOSED

SMOKE DETECTOR DETAIL



BEAM DETECTOR DETAIL

SHEET CONTENTS:



	FIRE ALARM DEVICE SCHEDULE	
ITEM	TYPE	QUANTITY
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL	1
MANUAL CALL POINT	ADDRESSABLE MANUAL CALL POINT	14
BEAM DETECTOR	BEAM DETECTOR REFLECTOR	5
BEAM DETECTOR	BEAM DETECTOR, ADDRESSABLE TYPE	5
SMOKE DETECTOR	SMOKE DETECTOR, ADDRESSABLE TYPE	.54
SOUNDER	SOUNDER WALL MOUNTED WITH STROS LIGHT	14

SYMBOL	DESCRIPTIONS	
(50)	SMOKE DETECTOR	
BD	BEAM DETECTOR	
M	MANUAL CALL POINT	
€ 0	SOUNDER/HORN WITH STROBE LIGHT	
FACP	FIRE ALARM CONTROL PANEL	
X	PULLBOX	
∠BR⊃	BEAM DETECTOR REFLECTOR	P-FLORES
	PFOFESSIONAL PECE NO. 628 IECEP NO. 1074 PTR NO. 9516814 DATE ISSUED: JA TIN NO. 913-659-0	LIFE NEMBER PLACE HOUED: CSFP N. 03, 2023

LEGEND





DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castillelos Zambales

PROJECT TITLE/LOCATION: CONVERGENCE AND SPECIAL SUPPORT PROGRAM. BASIC INFRASTRUCTURE PROGRAM (BIP),
MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL
SERVICES ,REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2. BARANGAY SAN JUAN.

AS SHOWN

PREPARED:

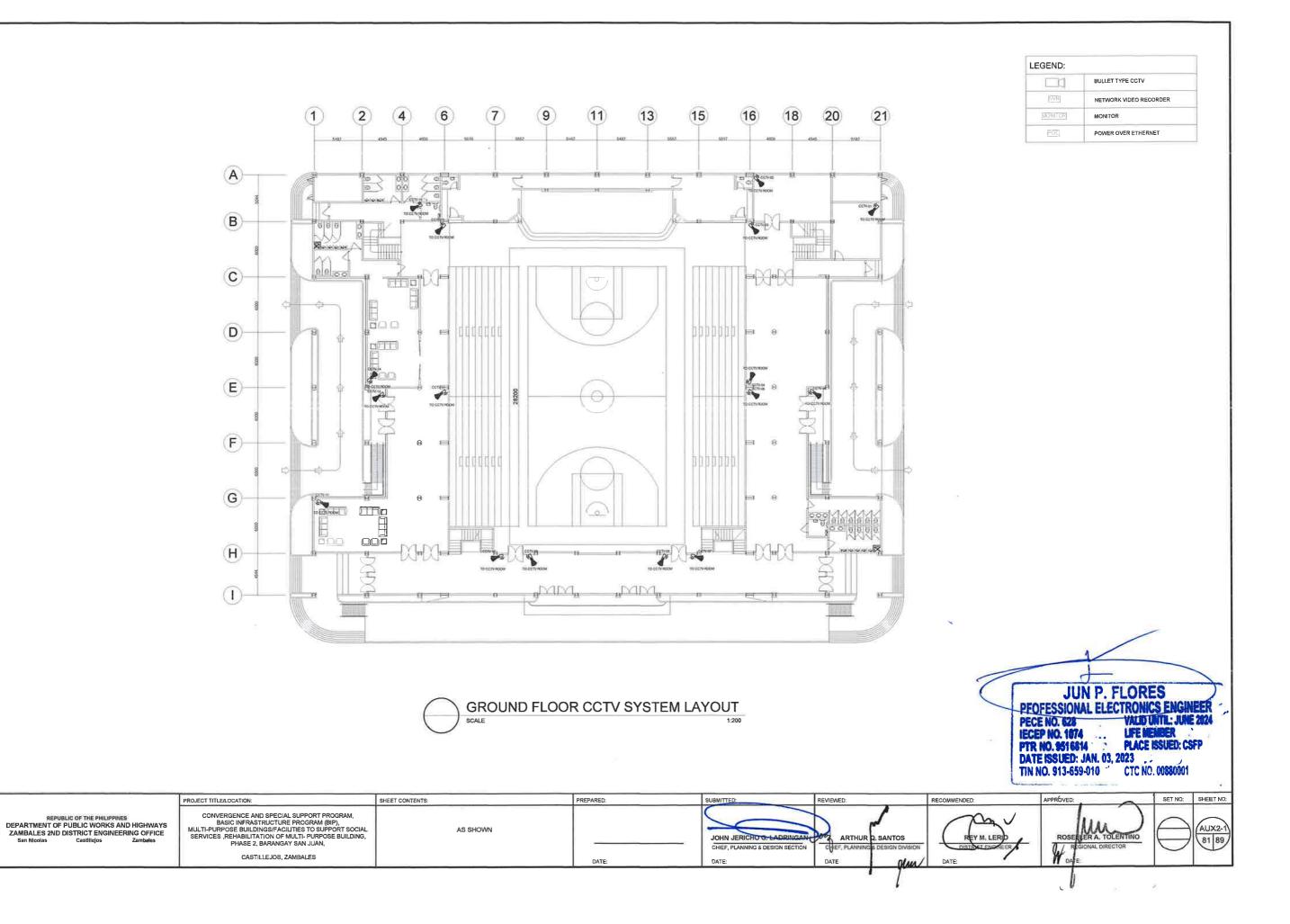
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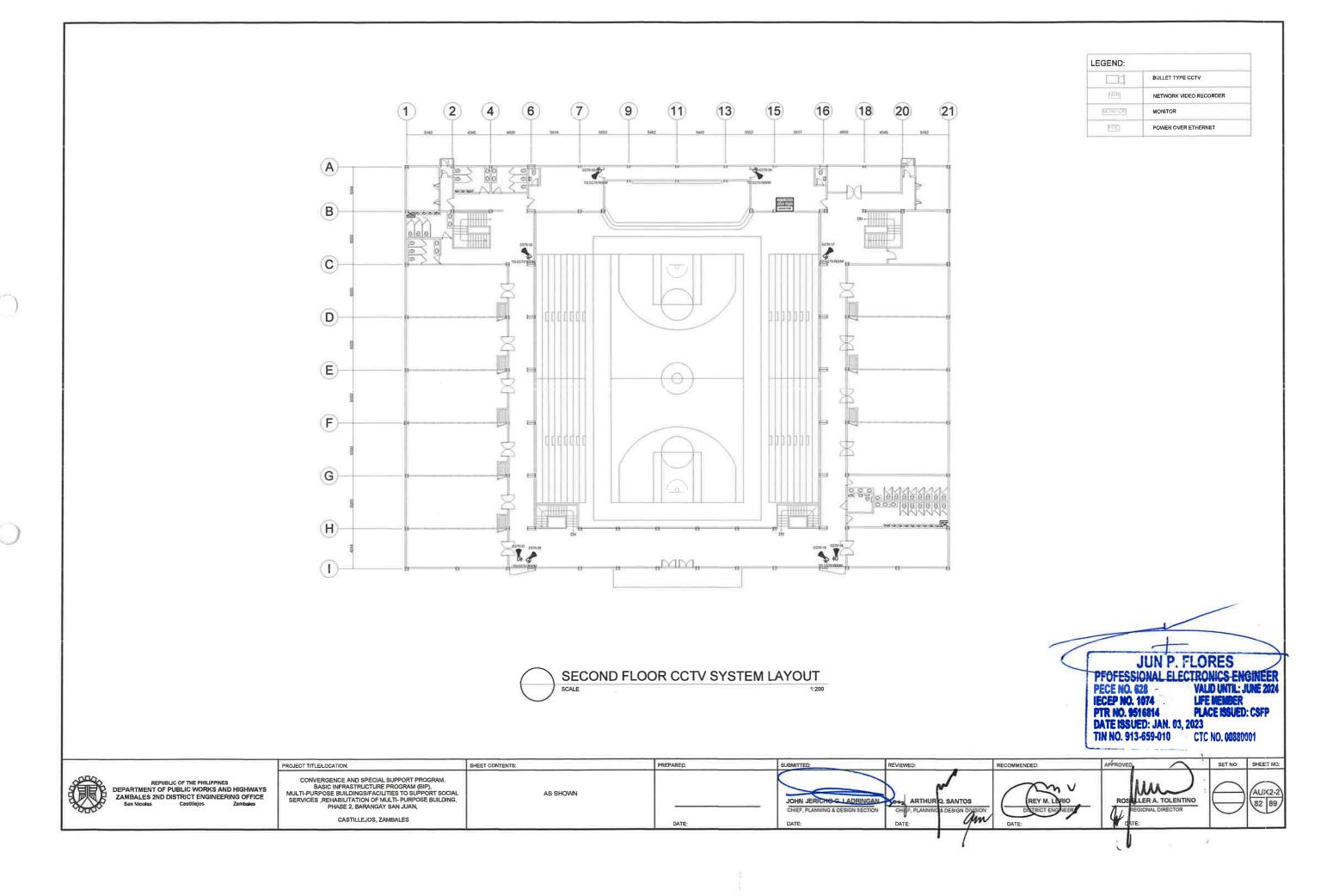
REVIEWED: JOHN JERIGHO G. LAD ARTHUR Q. SANTOS

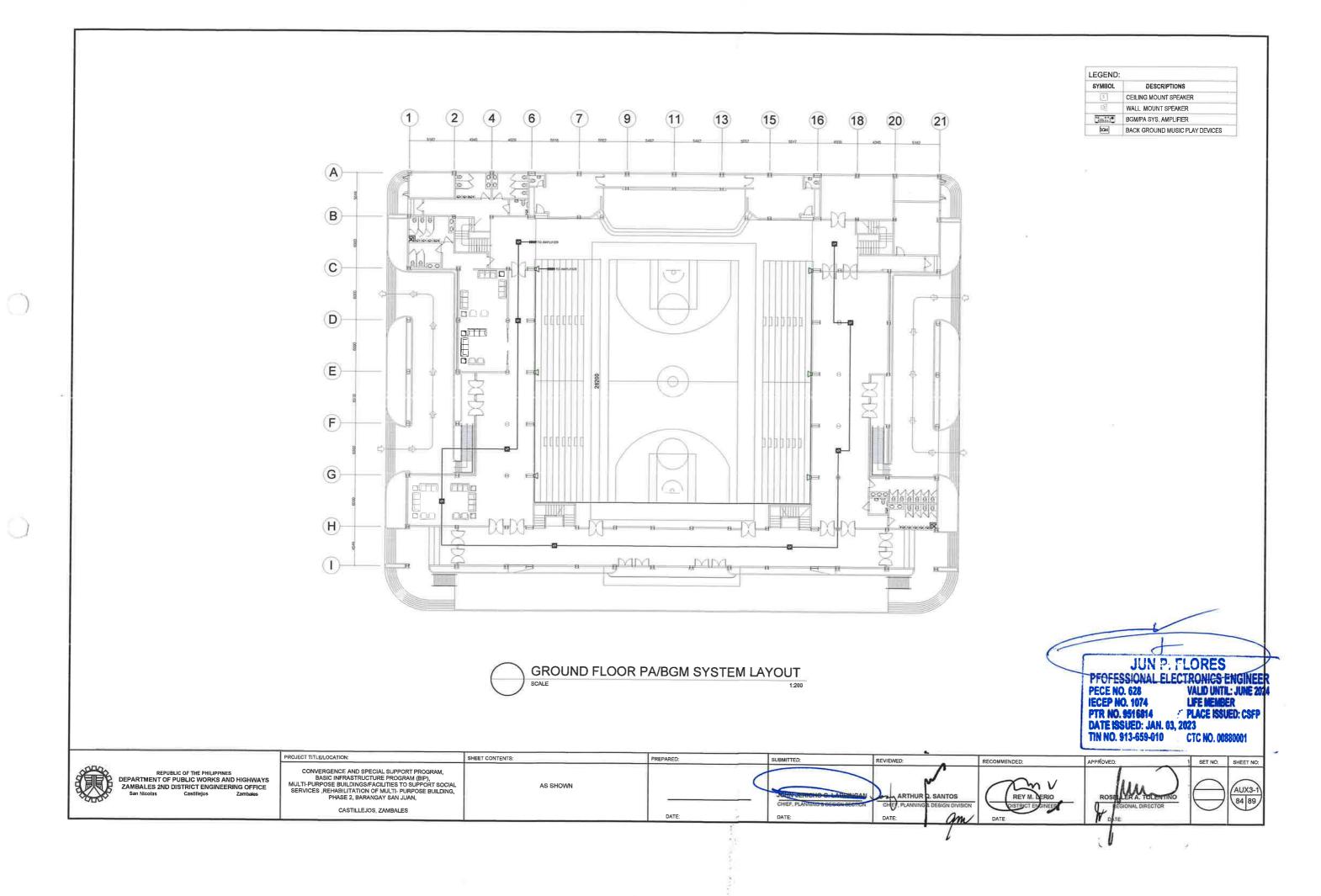
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SHEET NO: SET NO: AUX1-3 80 89

CASTILLÉJOS, ZAMBALES

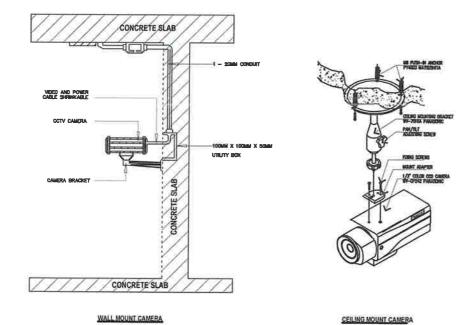






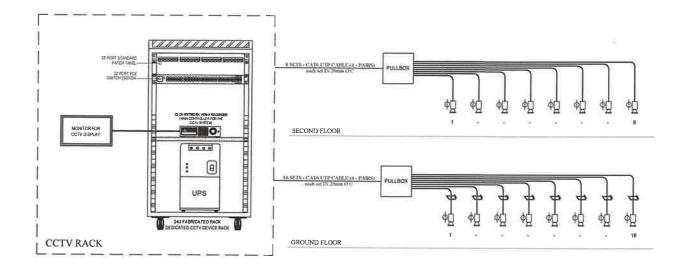
GENERAL NOTES ELECTRONIC SAFETY & SECURITY

- 1) ALL DIMENSIONS ARE IN METERS (M) UNLESS OTHERWISE NOTED
- 2) ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH NFPA 72-2010 STANDARD REQUIREMENT
- 3) UNLESS OTHERWISE INDICATED IN THE DRAWINGS, MINIMUM SIZE OF CONDUIT SHALL BE 20mm DIA.
- 4) CONDUITS SHALL HAVE PROTECTIVE BUSHING PLACED AT ALL CONNECTION POINT TO PREVENT DAMAGE TO CABLES 5) ALL CONDUIT RUNS SHALL NOT EXCEED 30 METERS OR TWO (2) 90 DEGREES BENDS, OTHERWISE, PULL BOXES ARE REQUIRED.
- 6) ALL CEILING MOUNTED DEVICES SHALL BE INSTALLED WITH MINIMUM OF 15 mm DIA. FLEXIBLE CONDUIT
- 7) AT A MINIMUM, SPACING BETWEEN ELECTRICAL LIGHTS SHALL BE 300mm AND 910mm FROM HVAC SUPPLY
- 8) ALL DEVICES, EQUIPMENT, MATERIALS SPECIFICATION & REQUIREMENTS SHALL BE READ IN CONJUNCTION TO PROJECT SPECIFICATION & ELECTRONICS SAFETY AND SECURITY.





PROJECT TITLE/LOCATION:





	SECURITY DEVICE SCHEDULE	
ITEM	TYPE	QUANTITY
DISPLAY DEVICE	42" LED MONITOR	2
BULLET CAMERA	FIXED BULLET NETWORK CAMERA	24
VIDEO RECORDER	NETWORK VIDEO RECORDER	1





REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE
San Nicolas Castilicios Zambales

CONVERGENCE AND SPECIAL SUPPORT PROGRAM, BASIC INFRASTRUCTURE PROGRAM (BIP), MULTI-PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICES ,REHABILITATION OF MULTI-PURPOSE BUILDING, PHASE 2, BARANGAY SAN JUAN,

AS SHOWN

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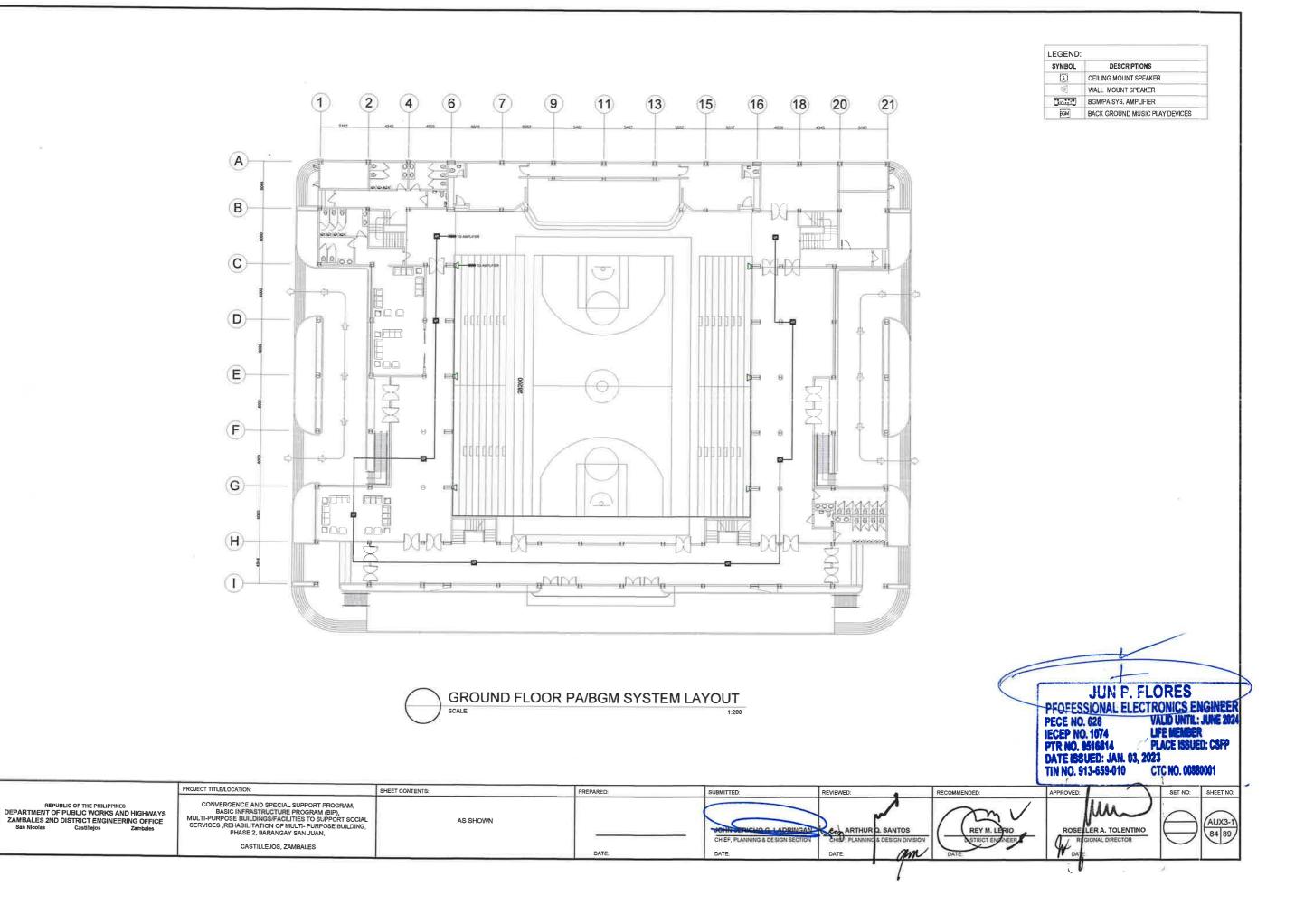
SUBMITTED: REVIEWED: ARTHUR D. SANTOS

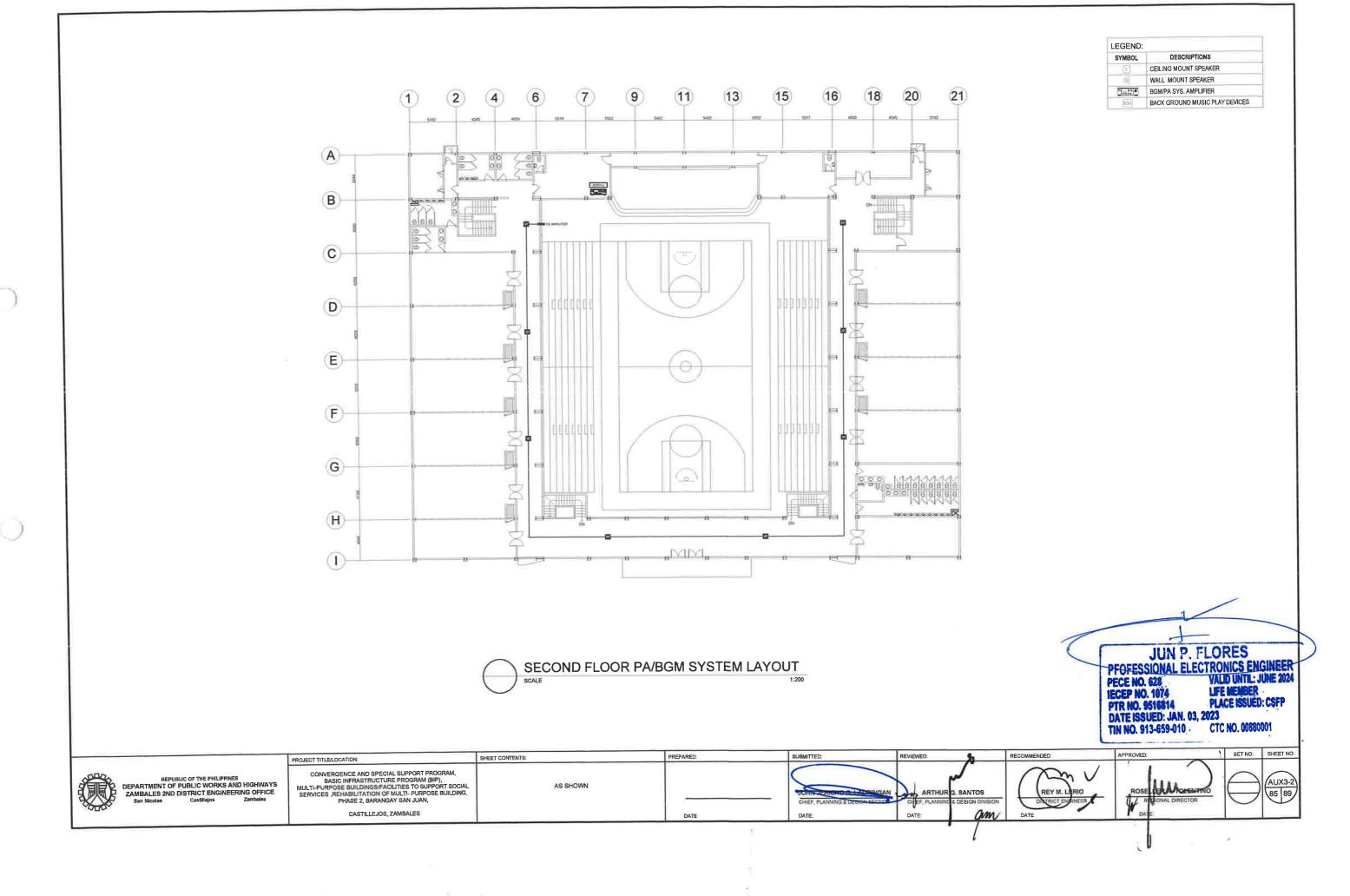
SET NO: SHEET NO: AUX2-3 83 89

CASTILLEJOS, ZAMBALES

DATE

REPARED:





GENERAL NOTES

DO NOT USE RE-ENTRANT HORN LOUDSPEAKERS FOR BACKGROUND MUSIC UNLESS THE LOUDSPEAKER HAS BEEN SPECIFICALLY DESIGNED FOR THIS PURPOSE.

ENSURE THAT ALL LOUDSPEAKERS ARE IN-PHASE

ENSURE THAT THERE ARE NO SHORT CIRCUITS ON THE LOUDSPEAKER LINE BEFORE CONNECTION TO THE AMPLIFIER,

THICK WIRE (12 OR 14 GAUGE) IS RECOMMENDED FOR LONG WIRE RUNS, HIGH POWER APPLICATIONS, AND LOW IMPEDANCE

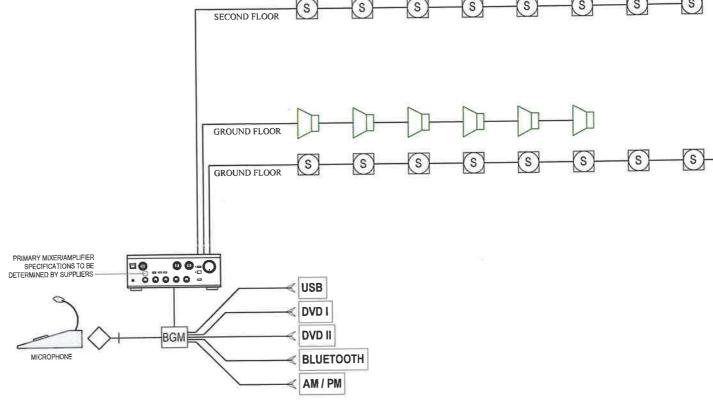
FOR RELATIVELY SHORT RUNS (LESS THAN 50 FEET) TO 8 OHM SPEAKERS, 16 GAUGE WIRE WILL USUALLY DO JUST FINE.

ALL MATERIALS USED SHALL BE NEW AND INSTALLED IN APPLICATIONS FOR WHICH THEY ARE INTENDED.

ALL ELECTRICAL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINES ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITIES, THE REQUIREMENTS OF THE LOCAL TELEPHONE COMPANIES AND STANDARDS OF EIA/TIA.

	BGM/PA DEVICES SCHEDULE	
ITEM	TYPE	QUANTITY
PA-RGM DEVICES	BGM PLAY DEVICES	
PA-RGM DEVICES	BGM/PA SYS AMPLIFIER	11
PA-RGM DEVICES	CEILING MOUNT SPEAKER	17
SPEAKER	WALL MOUNTED SPEAKER	6

LEGEND							
SYMBOL	DESCRIPTIONS						
(5)	CEILING MOUNT SPEAKER						
[5]	WALL MOUNT SPEAKER						
3000	BGM/PA SYS, AMPLIFIER						
BGM	BACK GROUND MUSIC PLAY DEVICES						



PA/BGM SYSTEM SINGLE LINE/RISER DIAGRAM

JUN P. FLORES PFOFESSIONAL ELECTRONICS ENGINEE VALID UNTIL: JUNE 202 PECE NO. 628 IECEP NO. 1074 LIFE MEMBER
PLACE ISSUED: CSFP PTR NO. 9516814 PLA DATE ISSUED: JAN. 03, 2023 TIN NO. 913-659-019 CTC CTC NO. 90889001

REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

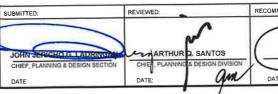
ZAMBALES 2ND DISTRICT ENGINEERING OFFICE

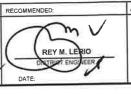
San Nicolas Castillojos Zambales

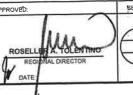
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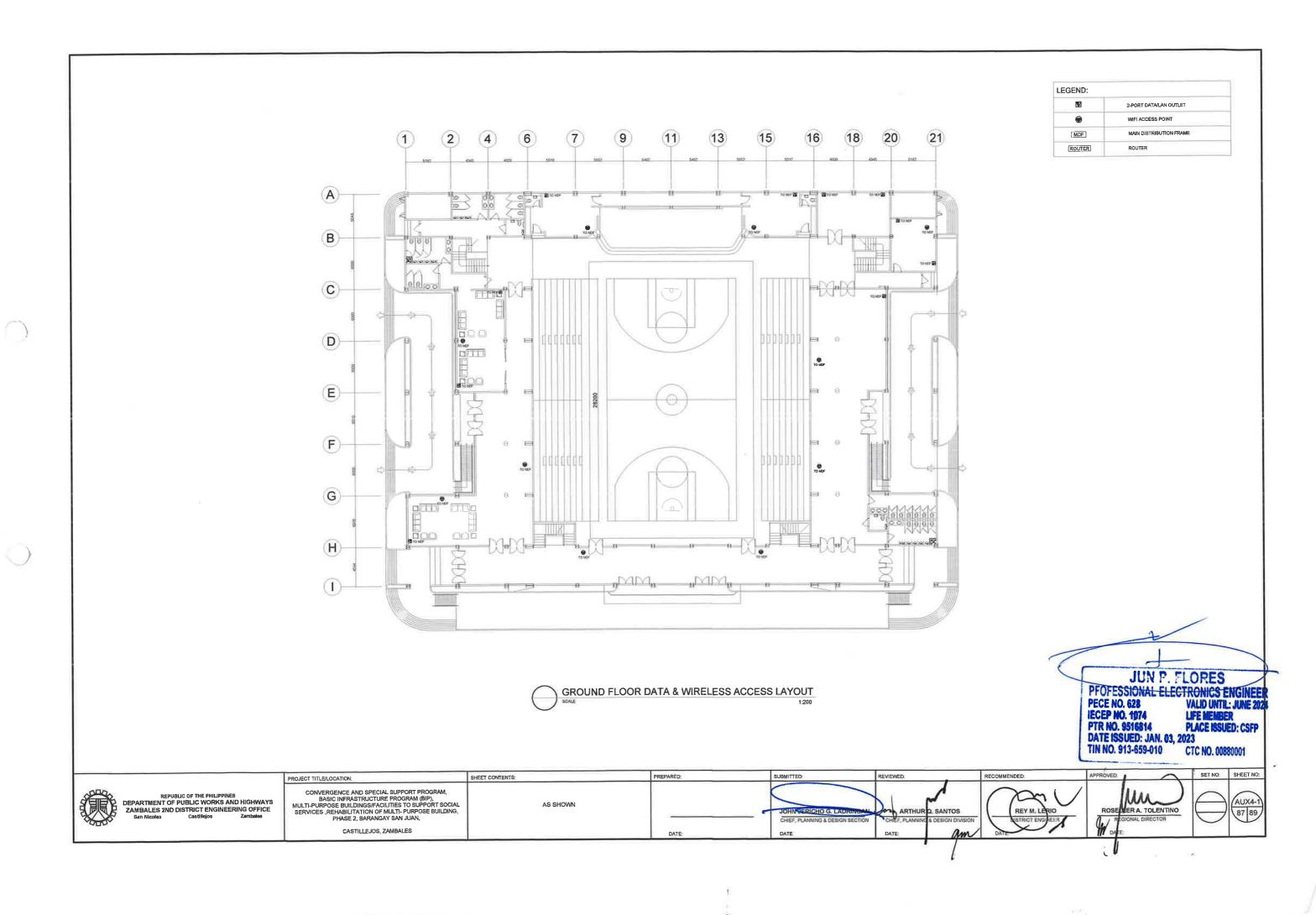
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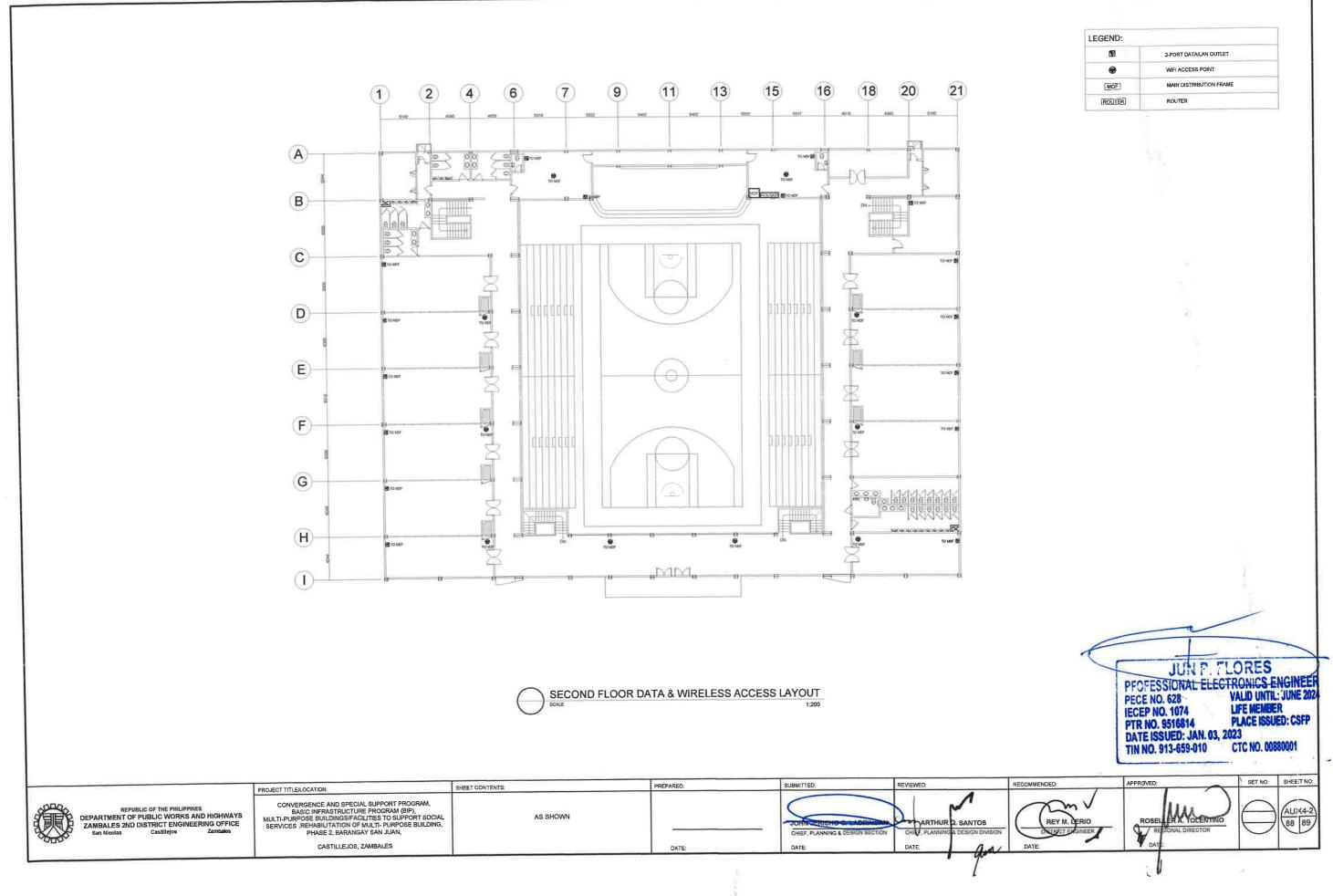






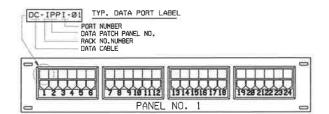
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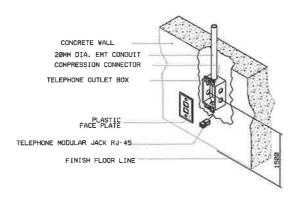


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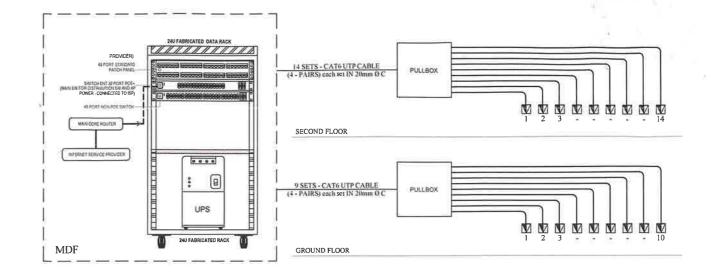


TYP. DATA PORT LABELING OF UTP PATCH PANELS

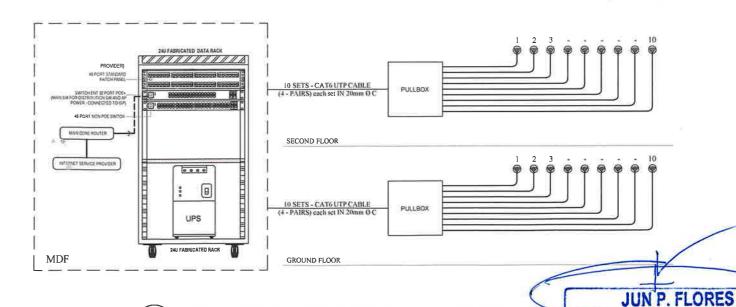


TYP. WALL DATA OUTLET INSTALLATION









WIRELESS ACCESS SINGLE LINE DIAGRAM

PFOFESSIONAL ELECTRONICS ENGINEE

PECE NO. 628 IECEP NO. 1074

VALID UNTIL: JUNE 2024

LIFE MEMBER PLACE ISSUED: CSFP



