Republic of the Philippines
Department of Health
CENTRAL OFFICE BIDS AND AWARDS COMMITTEE

BID BULLETIN NO. 3
10 December 2019

PROCUREMENT OF STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
IB No. CW-2019-002

This Bid Bulletin is being issued to announce the new schedule for the Submission and Opening of Bids and to clarify all the issues and concerns raised before and after the Pre-Bidding Conference held on 29 November 2019 at 10:00 A.M at the COBAC Conference Room, Department of Health for the Procurement of Structural Retrofitting and Repair of Building 19 under IB No. CW-2019-002. This Bid Bulletin shall form an integral part of the bidding documents. The following are the changes in the bidding documents:

1) **New Schedule for the Submission and Opening of Bids:**

Date		Venue
From	*To*	COBAC Conference Room, G/F, Bldg. 6, Department of Health, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila
11 December 2019; 9:00 A.M.	**17 December 2019; 9:00 A.M.**	

2) **Response to Clarification of Prospective Bidders:**

Clarification	COBAC-C's Response
Can you provide the signed copies of Detailed Architecture and Engineering Design (DAED) Plan (Structural, Electrical, and Sanitary/Plumbing)?	Please refer to Annex A and affix signature on every page as conformity of the participating bidder to the afore-mentioned requirements.
Can you provide the structural investigation of DOH Building 19 mentioned during the Pre-Bidding Conference?	Please refer to Annex B, for your reference.

Attached are the signed DAED Plan (Structural, Electrical, and Sanitary/Plumbing), Structural Investigation of DOH Building 19, Scope of Works, Technical Specifications, Bill of Quantities and Supplier's Eligibility Requirements Checklist.

All other provisions of the bidding documents which are not affected shall remain in effect.

For guidance and information of all concerned.

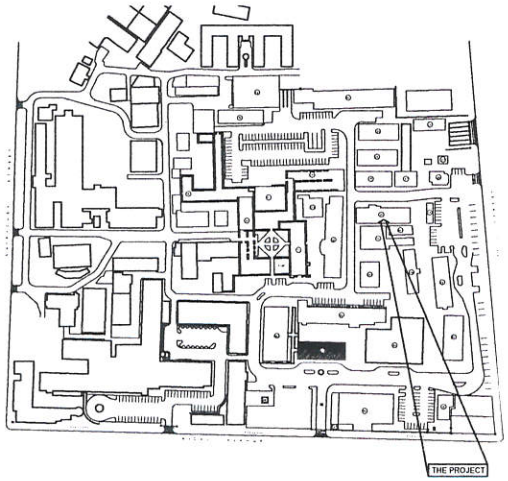
(SGD.)
KENNETH G. RONQUILLO, MD, MPHM, CESO III
OIC -Assistant Secretary of Health
COBAC – C Chairperson

ANNEX A

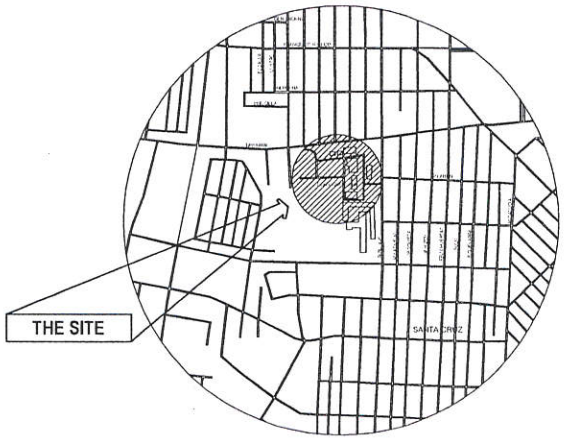
Detailed Architecture and Engineering Design Plan
(Structural, Electrical, and Sanitary/Plumbing)

1 / A 1.0 EXTERIOR PERSPECTIVE
SCALE NTS

LEGEND	
01	OFFICE OF THE SECRETARY
02	FINANCE
03	BIHC / HPDPB
04	NCHFD & FICO
05	COBAC & PLS
06	IMS & NEC
07	ADMINISTRATIVE Office
07a	HHRDB & LIBRARY
08	NCDPC BUILDING
09	BHFS BUILDING
10	SPECIAL CONCERNS
11	CANTEEN & NCHP
12	former BRL BUILDING
12a	HHRDB & Library
14	BHDT BUILDING
15	MMD OFFICE & WAREHOUSE FACILITIES
16	PRINTING BUILDING
17	MOTORPOOL BUILDING
17a	Proposed Space for BGMS
18	CONVENTION CENTER
18a	CONVENTION CENTER ANNEX
20	DIRECTOR'S LOUNGE
21	GYMNASIUM
22	Former PABX BUILDING



2 / A 1.0 SITE DEVELOPMENT PLAN
SCALE NTS



3 / A 1.0 VICINITY MAP
SCALE NTS

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STRUCTURAL PLANS

ELECTRICAL PLANS

PLUMBING AND SANITARY PLANS

MECHANICAL PLANS

Republic of the Philippines
OFFICE OF THE BUILDING OFFICIAL

CITY OF MANILA

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY

PLUMBING

ELECTRONICS

GEODETIC ENGINEER

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4 DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD
AR. MARIA MINNIE O. ABAN, UAP
PRC REG. No. — Validity
PTR No. — Date
Place — TIN

RA 9266 SECTION 33

ENGINEER
PRC Reg. No. — Validity
PTR No. — Date
Place — TIN

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH COMPOUND STA. CRUZ MANILA

SHEET CONTENTS
PERSPECTIVE
SITE DEVELOPMENT PLAN
VICINITY MAP

CHECKED BY
AR. ROSSANA T. RAYMUNDO, UAP
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Place — TIN

CONCURRED
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DIRECTOR IV
EPIDEMIOLOGY BUREAU

APPROVED
LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTHFACILITIES ENHANCEMENT PROGRAM

SHEET NO
A-1.0
DRAWN BY: AR MCA
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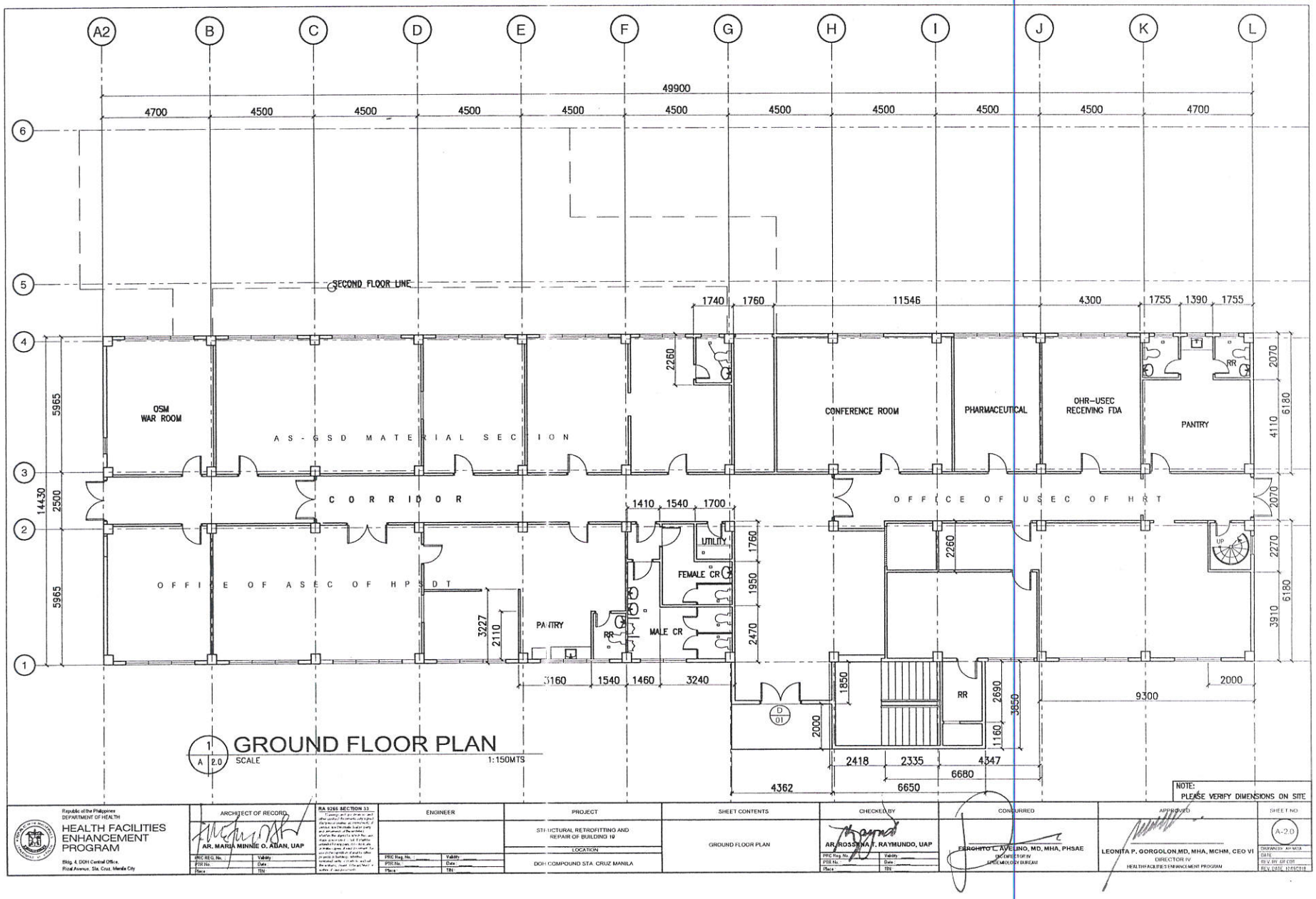

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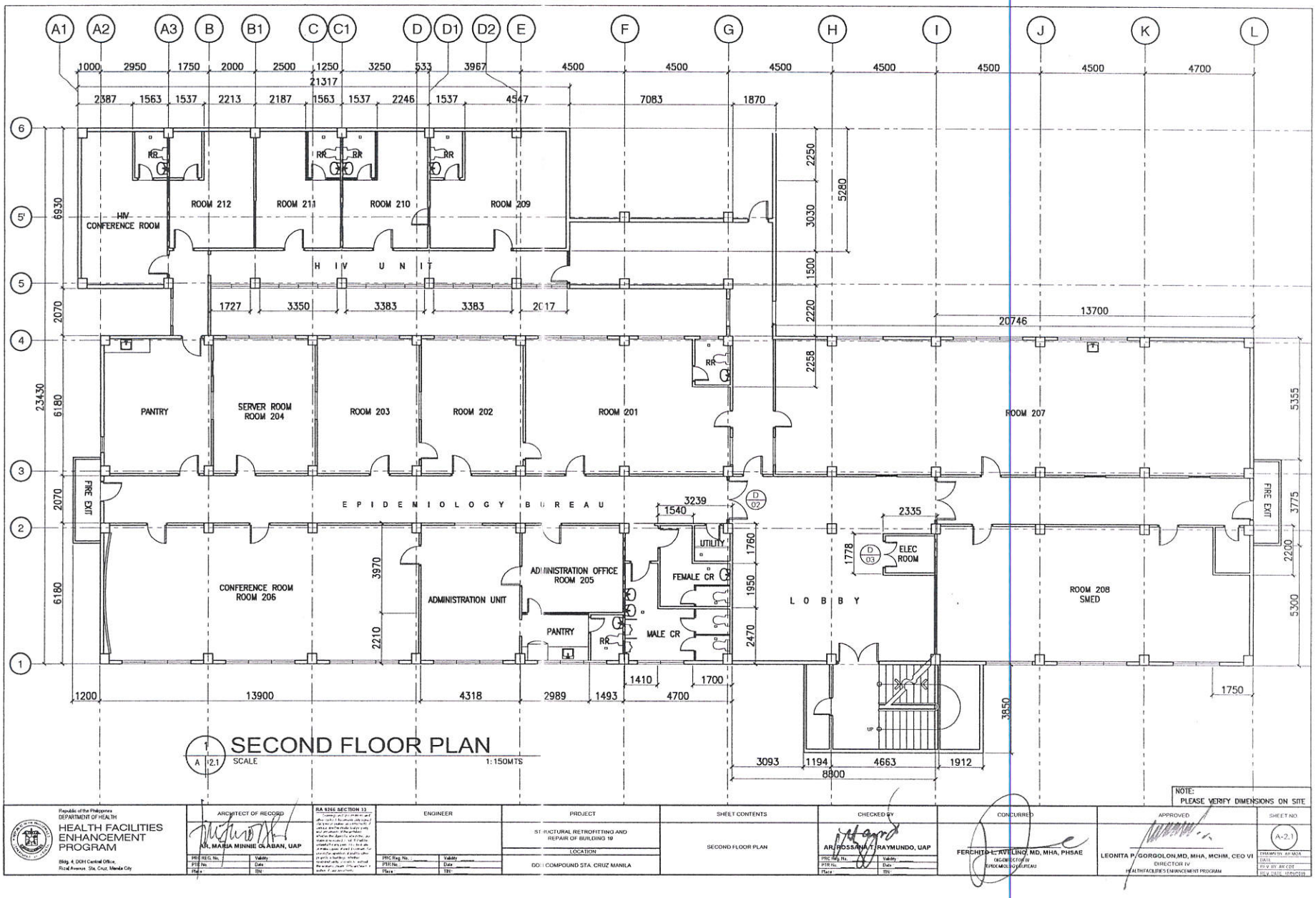

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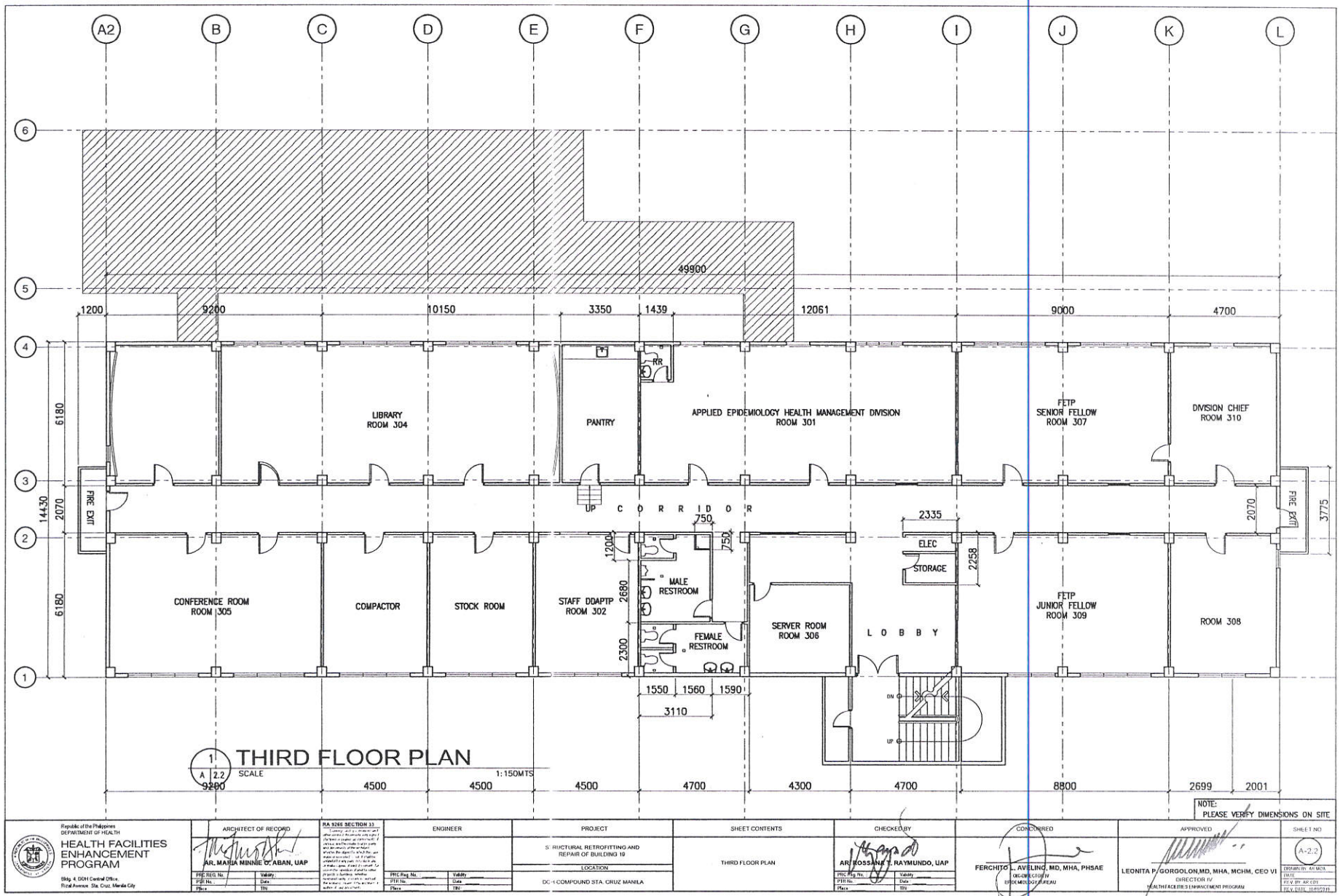

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AR. MARIA MINNIE C. ABAN, UAP PRC REG. No. / Validity PTR No. / Date Place / TIN	Contractor shall not deviate from the plans and documents of the architect, whether during construction or otherwise, if serious discrepancies in plans and documents of the architect, which the Owner's authorized representative shall decide, are found to exist. Contractor shall not be allowed to claim damages, if any, due to the deviation of work to other projects or building, whether horizontally, vertically, vertical, vertical, for the Owner's breach of the Contract or author of any contract.	PRC Reg. No. / Validity PTR No. / Date Place / TIN	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	THIRD FLOOR PLAN	AR. ROSSANA T. RAYMUNDO, UAP PRC Reg. No. / Validity PTR No. / Date Place / TIN	FERCHITO L. AVELINO, MD, MHA, PHSAE DEPUTY DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	A-2.2 DRAWN BY: AR MOA DATE: REV BY: AR CDT REV. DATE: 10/05/2016

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HEALTH FACILITIES ENHANCEMENT PROGRAM
FOURTH FLOOR PLAN
SCALE 1:150MTS
PANTRY
FEMALE CR
MALE CR
OFFICE OF PROGRAM MANAGER
CONFERENCE ROOM
STORAGE
C O R R I D O R
PHILMOS
DDAPTP
FIRE EXIT
UP
DN
16830
14430
1200
22500
27249
13700
11638
6562
4740
1910
4300
3550
1200
4600
2600
2700
3480
2100
4699
2599
4442
1297
4408
2005
1475
1275
3851
6180
2070
1900
4280
3085
1330
1765
3095
14430
ARCHITECT OF RECORD
ENGINEER
PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10
LOCATION
DOH COMPOUND STA. CRUZ MANILA
SHEET CONTENTS
FOURTH FLOOR PLAN
CHECKED BY
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CONCURRED
FERDINAND L. LAWSIN, MD, MHA, PHSAE
APPROVED BY
LEONITA P. BORGOLON MD, MHA, MCHM, CESO VI
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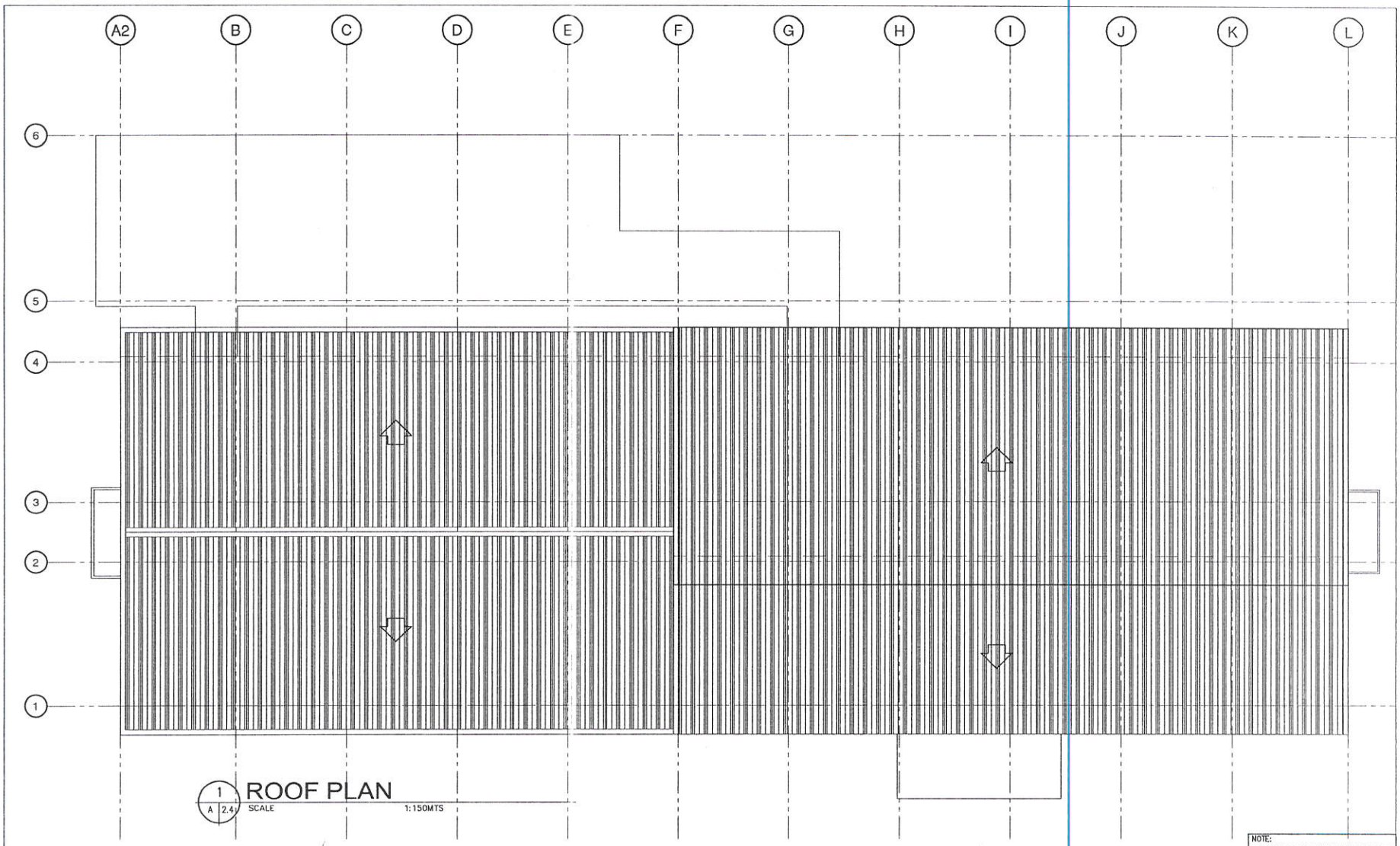
A-2.3



1 / A 2.4 ROOF PLAN

SCALE 1:150MTS

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AR. MARIA MINNIE G. ABAN, UAP PRC REG. No. Validity PTR No. Date Place TIN		PRC Reg. No. Validity PTR No. Date Place TIN	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	ROOF PLAN	AR. ROSSANA C. RAYMUNDO, UAP PRC Reg. No. Validity PTR No. Date Place TIN	FERCHITO L. AVELINO, MD, MHA, FPHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	A-2.4 DRAWN BY: AR MDM DATE: REV BY: AR CDT REV DATE: 10/8/2019

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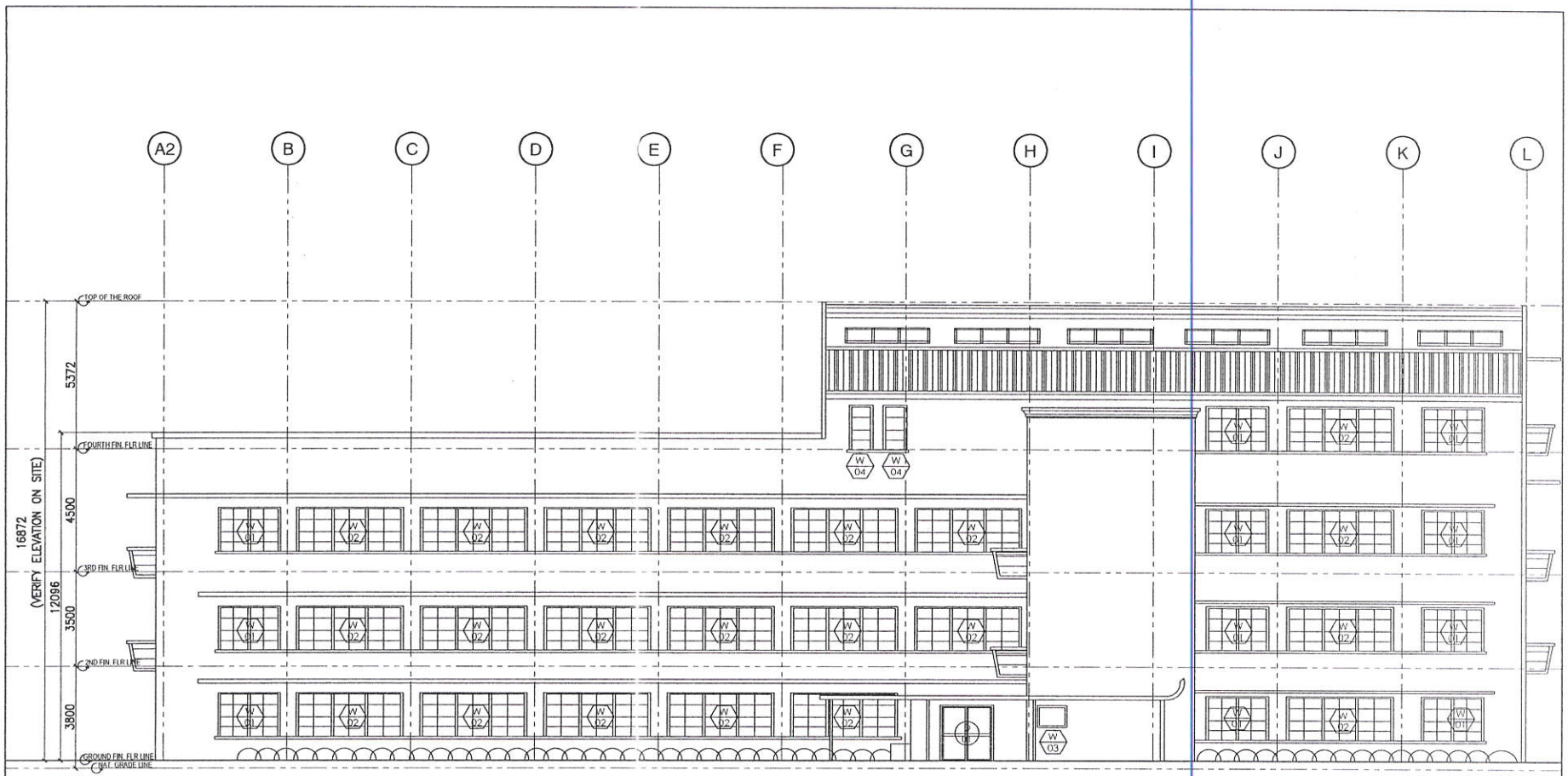

1 / A 3.0 FRONT ELEVATION

SCALE 1:150MTS

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HEALTH FACILITIES ENHANCEMENT PROGRAM
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AR. MARIA MINNIE O. ABAN, UAP PRC REG. No. / Validity PTR No. / Date Place / TIN		PRC Reg. No. / Validity PTR No. / Date Place / TIN	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	FRONT ELEVATION	AR. ROSSANA T. RAYMUNDO, UAP PRC Reg. No. / Validity PTR No. / Date Place / TIN	FERDHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	A-3.0 DRAWN BY: JAY MOA DATE: REVIEW BY: ARCHT REV. DATE: 10/05/2018

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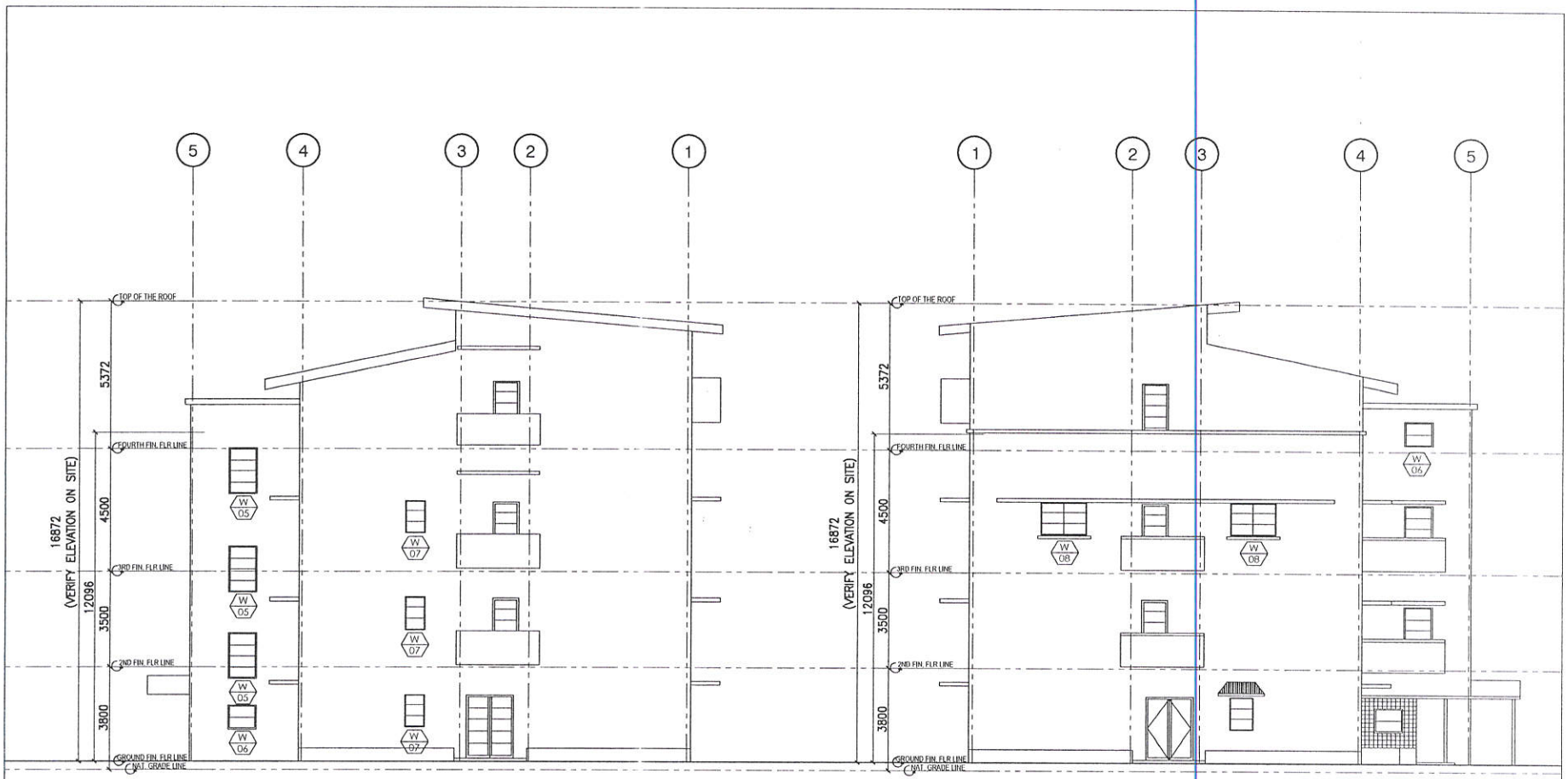

1 / A 3.1 RIGHT SIDE ELEVATION
SCALE 1:150MTS

2 / A 3.1 LEFT SIDE ELEVATION
SCALE 1:150MTS

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RA 9266 SECTION 33
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ENGINEER
PRC Reg. No.: Validity:
PTR No.: Date:
Place: TIN:

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION
DOH COMPOUND STA. CRUZ MANILA

SHEET CONTENTS
RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION

CHECKED BY
AR. ROSSANA T. RAYMUNDO, UAP
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PTR No.: Date:
Place: TIN:

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SHEET NO.
A-3.1
TRANSMITTAL NO.
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REVISION NO.
REVISION DATE:

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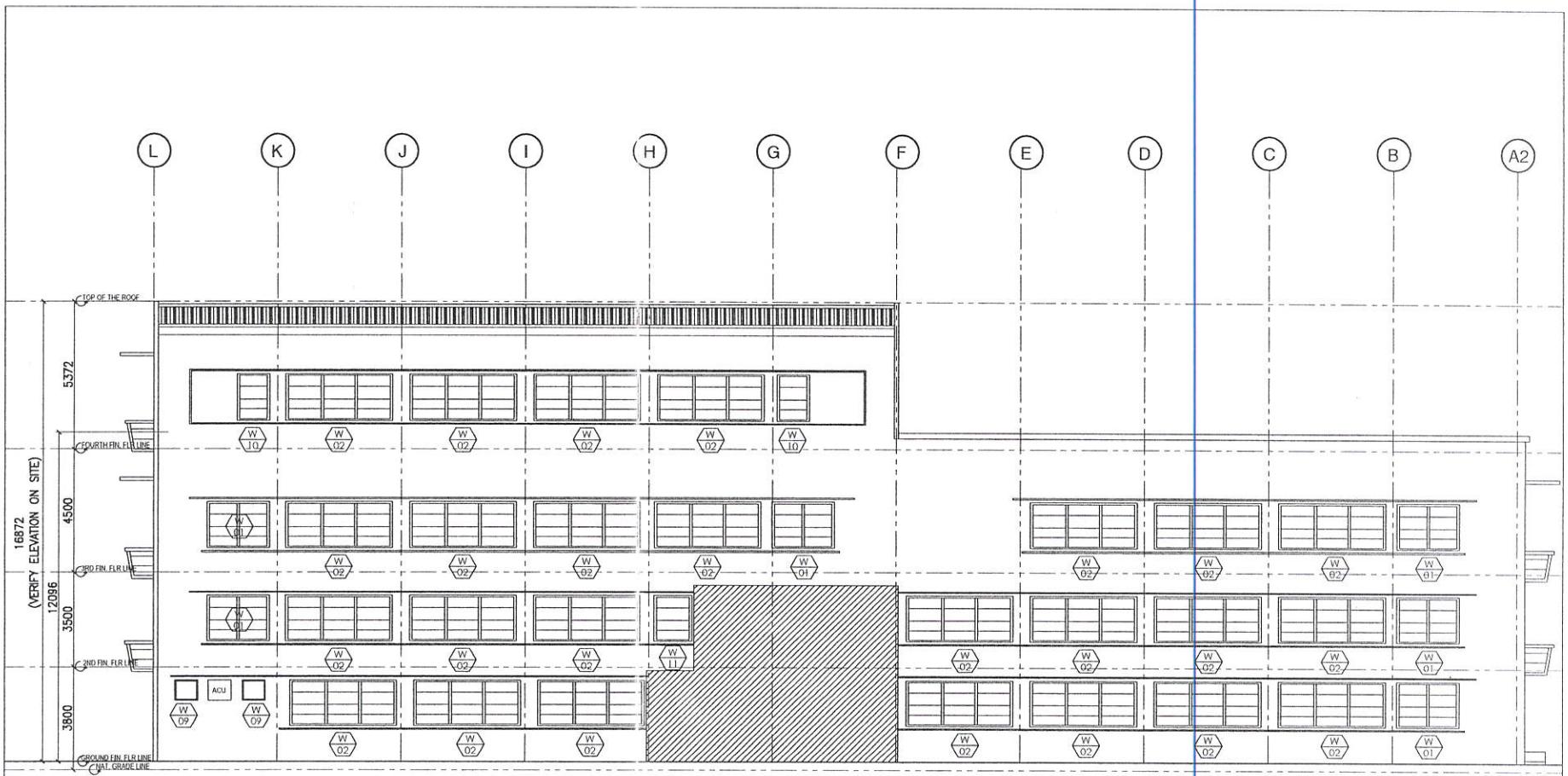

1 / A 3.2 REAR ELEVATION

SCALE 1:150MTS

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AR. MARIA MINNIE O. ABAN, UAP PRC/REG. No. / Validity PTR No. / Date Place / TIN		PRC Reg. No. / Validity PTR No. / Date Place / TIN	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	REAR ELEVATION	AR. ROSSANA T. RAYMUNDO, UAP PRC Reg. No. / Validity PTR No. / Date Place / TIN	FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	A-3.2 DRAWN BY: MV, MOA DATE: REV. BY: AR CDT REV. DATE: 09/07/2018

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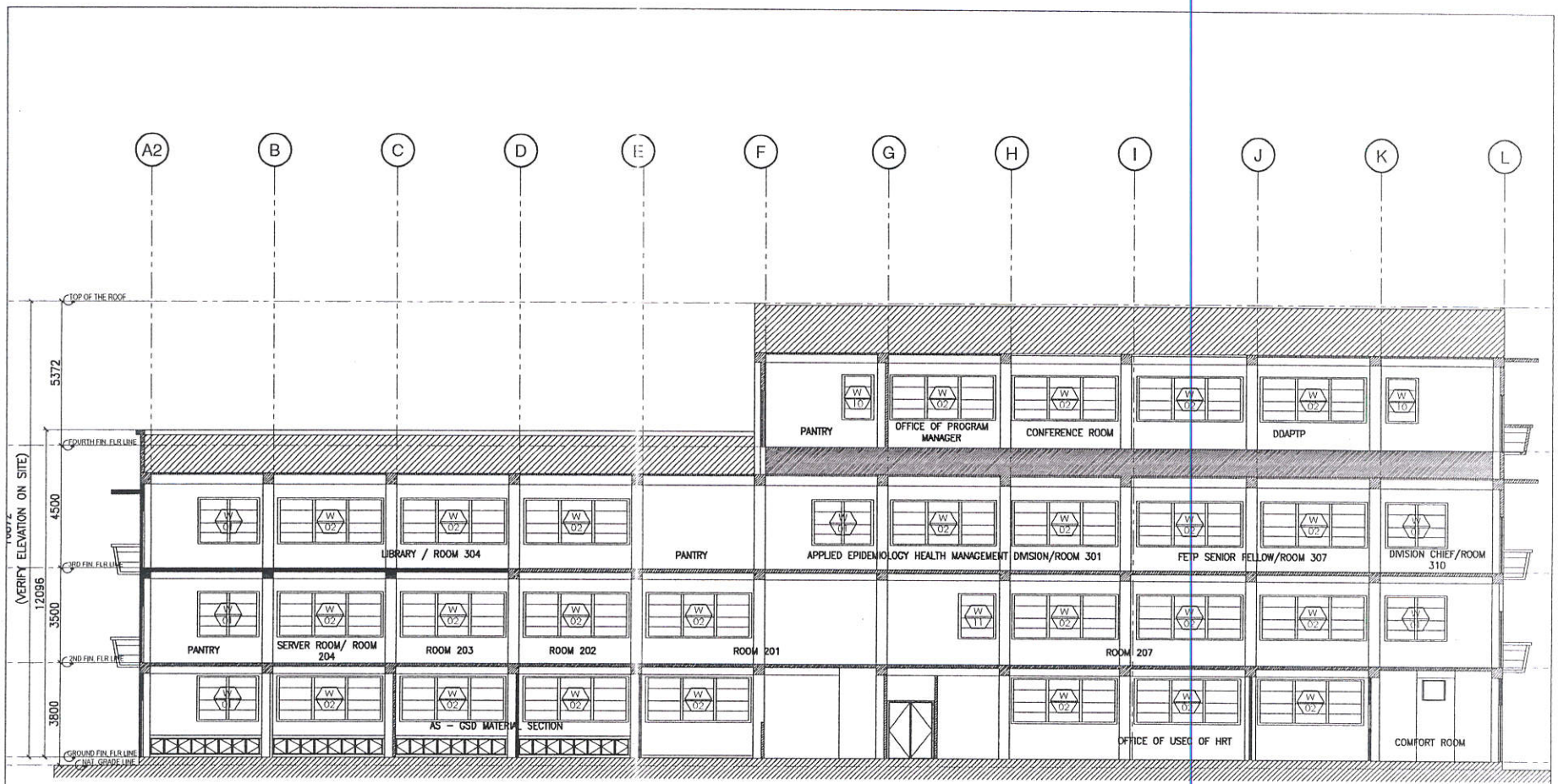

1 / A 4.0 LONGITUDINAL SECTION

SCALE 1:150MTS

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HEALTH FACILITIES ENHANCEMENT PROGRAM
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Place | TIN

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH COMPOUND STA. CRUZ MANILA

SHEET CONTENTS
LONGITUDINAL SECTION

CHECKED BY
AR. ROSSANA T. RAYMUNDO, UAP
PRC Reg. No. | Validity
PTR No. | Date
Place | TIN

CONCURRED
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A-4.0
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REV. DATE: 10/09/2019

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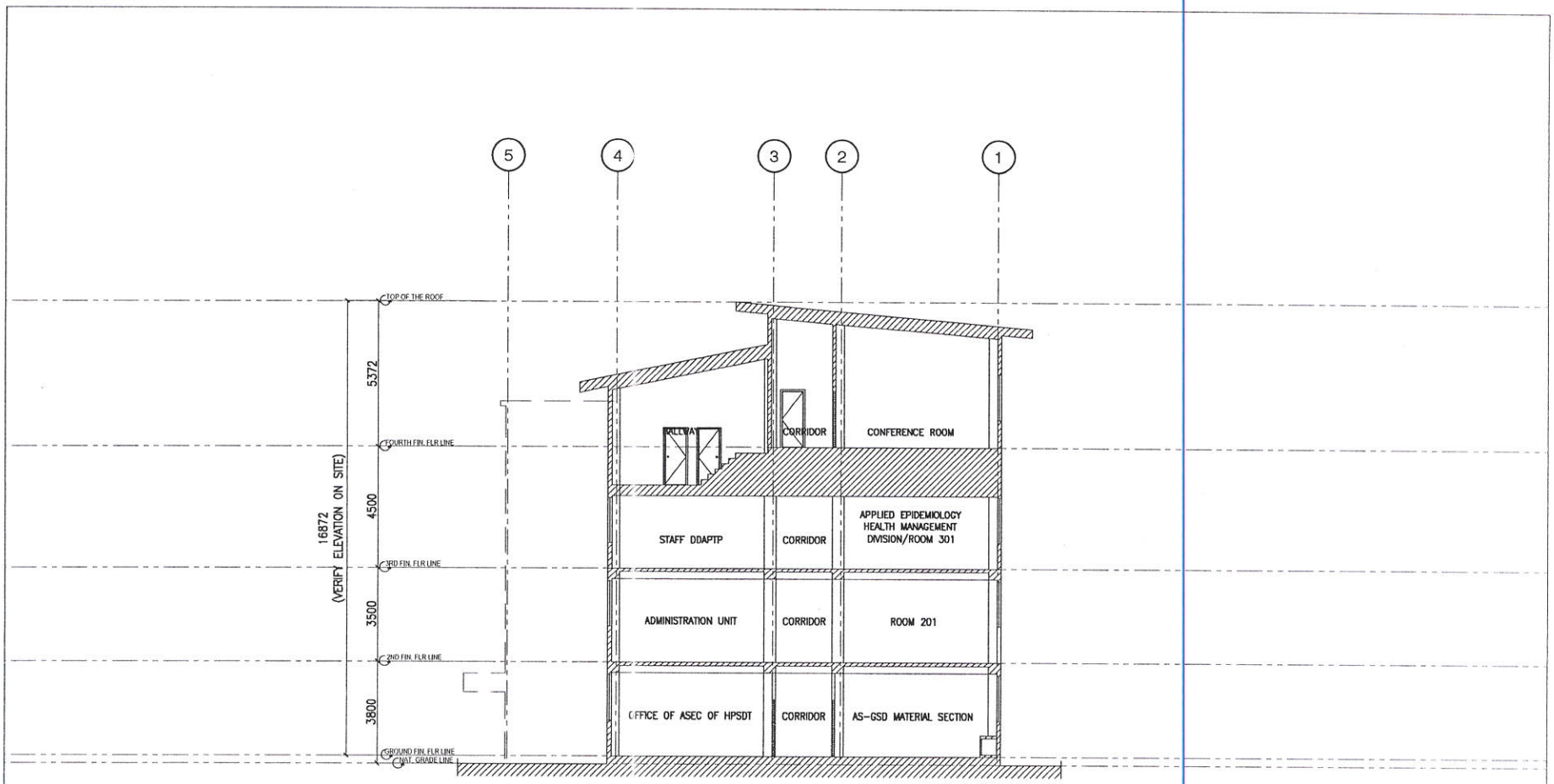

1 / A 4.1 CROSS SECTION

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PTR No. | Date
Place | By

RA 9265 SECTION 33

ENGINEER
PRC Reg. No. | Validity
PTR No. | Date
Place | TIN

PROJECT
: TRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
D H COMPOUND STA. CRUZ MANILA

SHEET CONTENTS
CROSS SECTION

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Place | TIN

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DIRECTOR IV
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DRAWN BY: AP, MDA
DATE:
REV. BY: AP, CDT
REV. DATE: 10/15/2018

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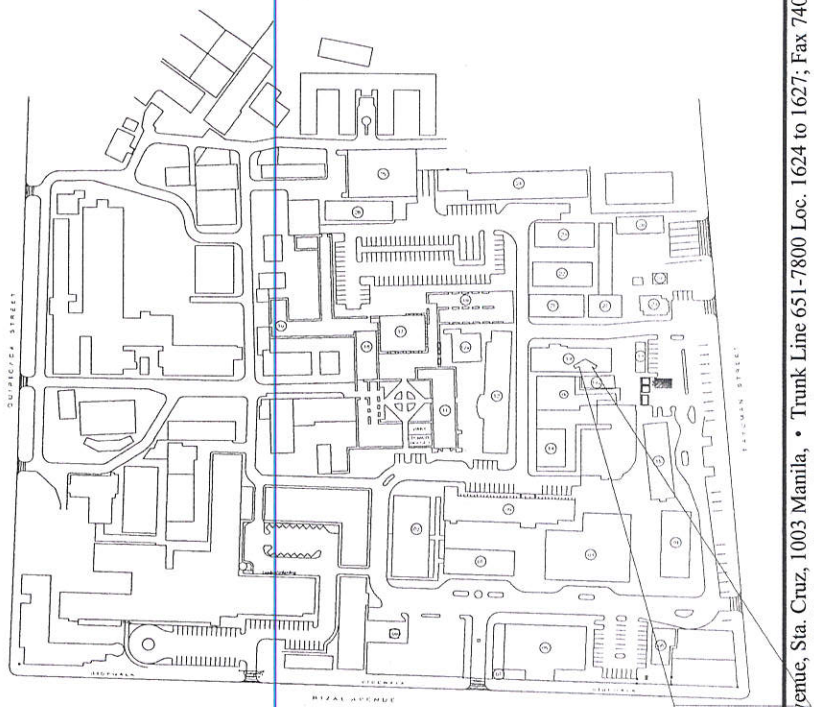
GENERAL NOTES

1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LOCAL ORDINANCES, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. ALL WORKS HEREIN SHALL BE DIRECTLY SUPERVISED BY A DULY REGISTERED ELECTRICAL ENGINEER AS ENFORCED BY THE NEW ELECTRICAL ENGINEERING LAW OR R.A. 7920.
3. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW, OF THE BEST QUALITY AND OF THE APPROVED TYPE AND SHALL BEAR THE MANUFACTURER'S NAME INCLUDING THE "PSA" MARK. PULL BOXES SHALL BE PROVIDED IN APPROPRIATE AREAS EVEN IF NOT INDICATED IN THE PLAN.
5. POWER SUPPLY TO THE BUILDING SHALL BE 3 PHASE, 4-WIRE, 230 VOLTS.
6. RACEWAY SCHEDULE SHALL BE AS FOLLOWS:
   A. MDP TO DISTRIBUTION PANELBOARDS - RSC.
   B. BRANCH CIRCUITS FOR POWER, LIGHTING AND AUXILIARY MINIMUM SIZE OF RACEWAY SHALL BE 15 MM. DIAMETER.
7. OUTLET BOXES SHALL HAVE A MINIMUM THICKNESS OF GA. # 16 WITH 1/2 KO AND SHALL BE PAINTED WITH RED LEAD PAINT PRIOR TO INSTALLATION.
8. WIRES AND CABLES SHALL BE OF THE APPROVED TYPE AND BEARING THE "PS" MARK UNLESS SPECIFIED OR INDICATED OTHERWISE. ALL POWER AND LIGHTING CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS MINIMUM.
9. WIRING DEVICES SHALL HAVE MINIMUM RATING OF 10 AMPERES, 250 VOLTS.
10. LIGHTING FIXTURES SHALL CONFORM WITH THE SCHEDULE AS PREPARED BY THE ARCHITECT.
11. PANELBOARDS SHALL CONFORM TO THE LOAD SCHEDULE AS SHOWN ON PLANS WITH RESPECT TO BREAKER PHASE ARRANGEMENT, RATING, CAPACITY AND SHORT CIRCUIT CONSIDERATION.
12. FIRE ALARM DEVICES SHALL COMPLY WITH THE NFPA PROVISIONS AND SHALL BEAR THE "UL" STANDARD MARK.
13. ALL NON-CURRENT CARRYING METALLIC PARTS, CABINETS AND EQUIPMENT FRAMES SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE GROUNDING REQUIREMENTS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
14. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

A. WALL SWITCHES	1400 MM	AFF TO CENTER OF DEVICE
B. WALL OUTLETS	300 MM	AFF TO CENTER OF DEVICE
C. COUNTERTOP OUTLETS	150 MM	TOP OF COUNTER TO CENTER OF DEVICE
D. INTERCOM OUTLETS	1400 MM	AFF TO CENTER OF BOX
E. CONTROL CABINETS	1500 MM	AFF TO TOP OF ENCLOSURE (VERTICAL)
F. MANUAL STATION	1400 MM	AFF TO CENTER OF DEVICE
G. BELL	200 MM	BELOW BEAM OR FINISHED CEILING
H. EMERGENCY LIGHT	300 MM	BELOW BEAM OR FINISHED CEILING
I. EXIT LIGHT	150 MM	ABOVE DOOR JAMB

LEGEND

- Sa — SINGLE POLE SWITCH IN ONE GANG
- Sab — TWO - SINGLE POLE SWITCH IN ONE GANG
- Sabc — THREE - SINGLE POLE SWITCH IN ONE GANG
- S3wa — THREE WAY SWITCH IN ONE GANG
- S3wab — TWO - THREE WAY SWITCH IN ONE GANG
- 2x40WATTS FLUORESCENT LIGHTING FIXTURES W/ HPF ELECTRONIC BALLAST, W/MIRRORIZED ALUMINUM REFLECTOR HOUSING, LOUVER-TYPE, RECESSED MOUNTED (300X1220mm)
- 2x40WATTS FLUORESCENT LIGHTING FIXTURES W/ HPF ELECTRONIC BALLAST, W/MIRRORIZED ALUMINUM REFLECTOR HOUSING, LOUVER-TYPE, RECESSED MOUNTED (300X1220mm)
- 2-40W FLUORESCENT LIGHTING FIXTURE WITH RAPID START BALLAST AND ACRYLIC DIFFUSER
- 3-20W FLUORESCENT LIGHTING FIXTURE WITH RAPID START BALLAST AND MIRRORIZED LOUVER HOUSING
- 6 INCH Ø PINLIGHT W/ 2-18W SELF BALLASTED BULBS
- EMERGENCY LIGHT
- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE
- DITTO BUT WEATHER PROOF
- DITTO BUT COUNTER HEIGHT
- SPECIAL PURPOSE OUTLET
- AIR CONDITIONING UNIT OUTLET
- RANGE
- TV OUTLET
- TELEPHONE OUTLET
- INTERCOM OUTLET
- SERVICE ENTRANCE, POWER
- SERVICE ENTRANCE, COMMUNICATION
- KILOWATT-HOUR METER
- PANELBOARD
- SMOKE DETECTOR
- HEAT DETECTOR
- FIRE ALARM BELL
- FIRE ALARM MANUAL STATION
- WALL EXIT LIGHT
- DIRECTIONAL HANGING EXIT LIGHT
- BUZZER
- PULL BOX
- MANHOLE
- PUSH BUTTON
- FACP — FIRE ALARM CONTROL PANEL
- TTC — TELEPHONE TERMINAL CABINET
- CIRCUIT HOMERUN
- SPEAKER
- MTS — MANUAL TRANSFER SWITCH
- MDP — MAIN DISTRIBUTION PANEL
- EMDP — EMERGENCY MAIN DISTRIBUTION PANEL
- CEILING FAN (THREE BLADED)
- INCANDESCENT LIGHT OUTLET
- ANNUNCIATOR
- RACEWAYS CONCEALED IN SLAB
- RACEWAYS CONCEALED IN SLAB
- LAN NETWORK SWITCH PORT
- UP - RISER
- DOWN - RISER
- GROUND (EARTH)



2 / E 1 **SITE DEVELOPMENT PLAN**
SCALE NTS

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:
ARISTEO HUGO C. DE VERGARA, REE, RME
ENGINEER III-HFEP
JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33
Drawings and specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the architect whether the object for which they are made is executed or not. It shall be unlawful for any person to duplicate or make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents

PROFESSIONAL ELECTRICAL ENGINEER
PRC Reg. No. ____ Validity ____
PTR No. ____ Date ____
Place ____ TIN ____

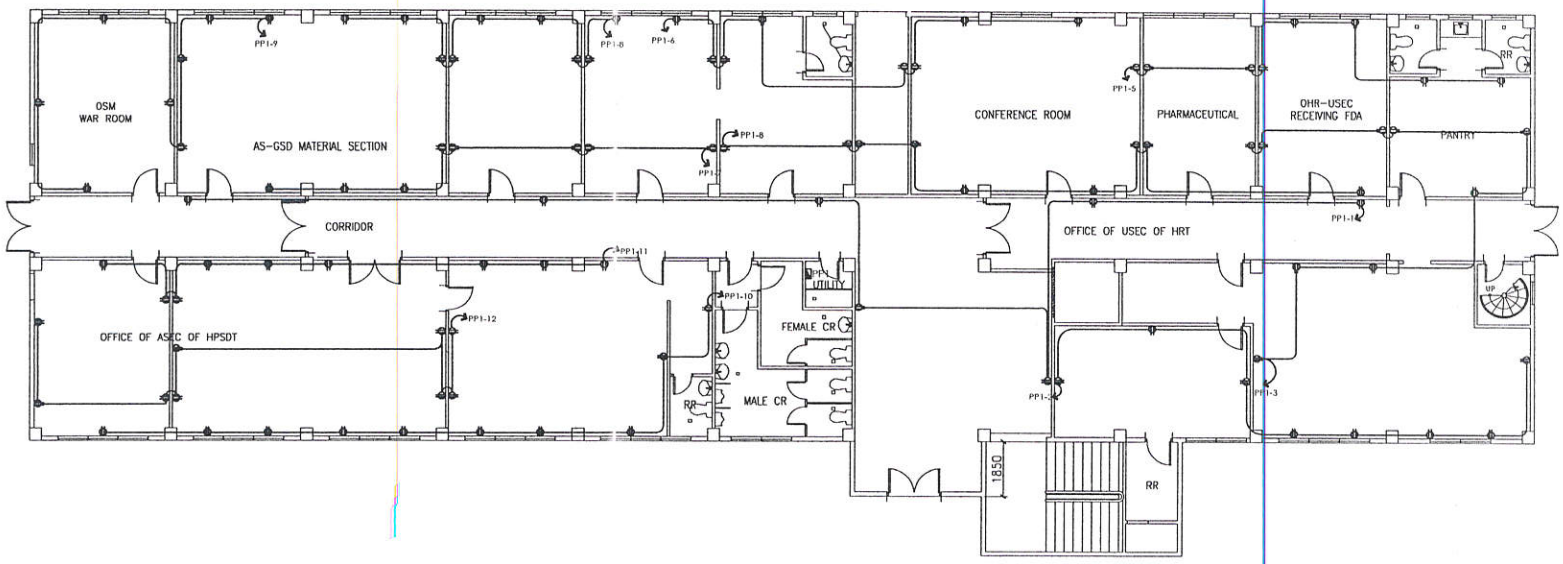
PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH Compound Sta. Cruz, Manila

SHEET CONTENT
GENERAL NOTES
LEGENDS
VICINITY MAP
SITE DEVELOPMENT PLAN

CONCURRED

APPROVED
LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-1
DRAWN BY: ACQUMG
DATE: October 2019
REV. DATE: October 2019



GROUND FLOOR POWER LAYOUT

1 / E 2

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity : _____
PTR No. _____ Date : _____
Place _____ TIN _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

Ground Floor Power Layout

CONCURRED

APPROVED

LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-2

DRAWN BY: ACDUMO
DATE: October 2019
REV. DATE: October 2019

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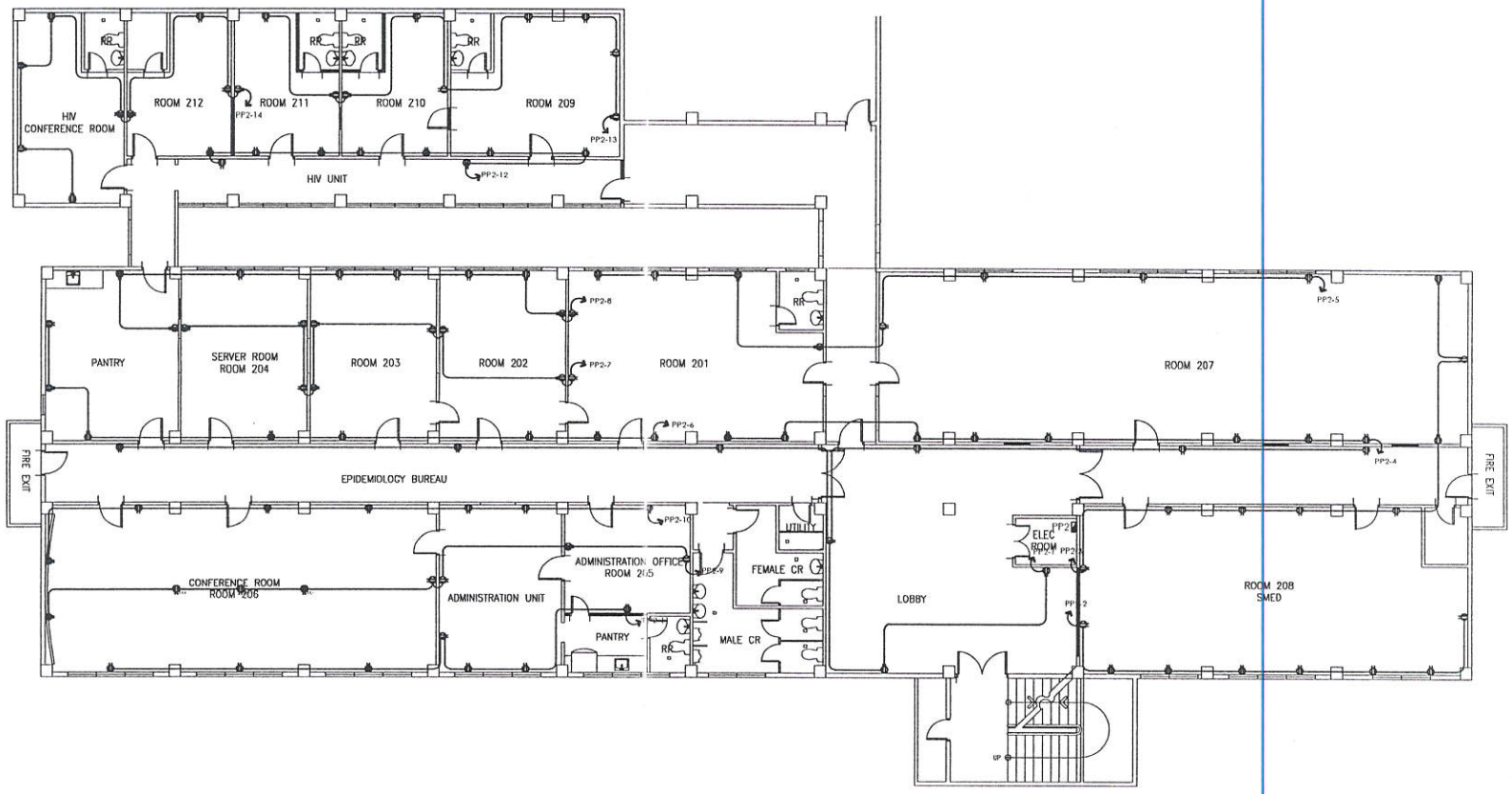
URL: http://www.doh.gov.ph



1 / E 3 **SECOND FLOOR POWER LAYOUT**

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity : _____
PTR No. _____ Date : _____
Place : _____ TIN : _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound Sta. Cruz, Manila

SHEET CONTENT

Second Floor Power Layout

CONCURRED

APPROVED

LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-3

DRAWN BY: ACD/MG

DATE: October 2019

REV. DATE: October 2019

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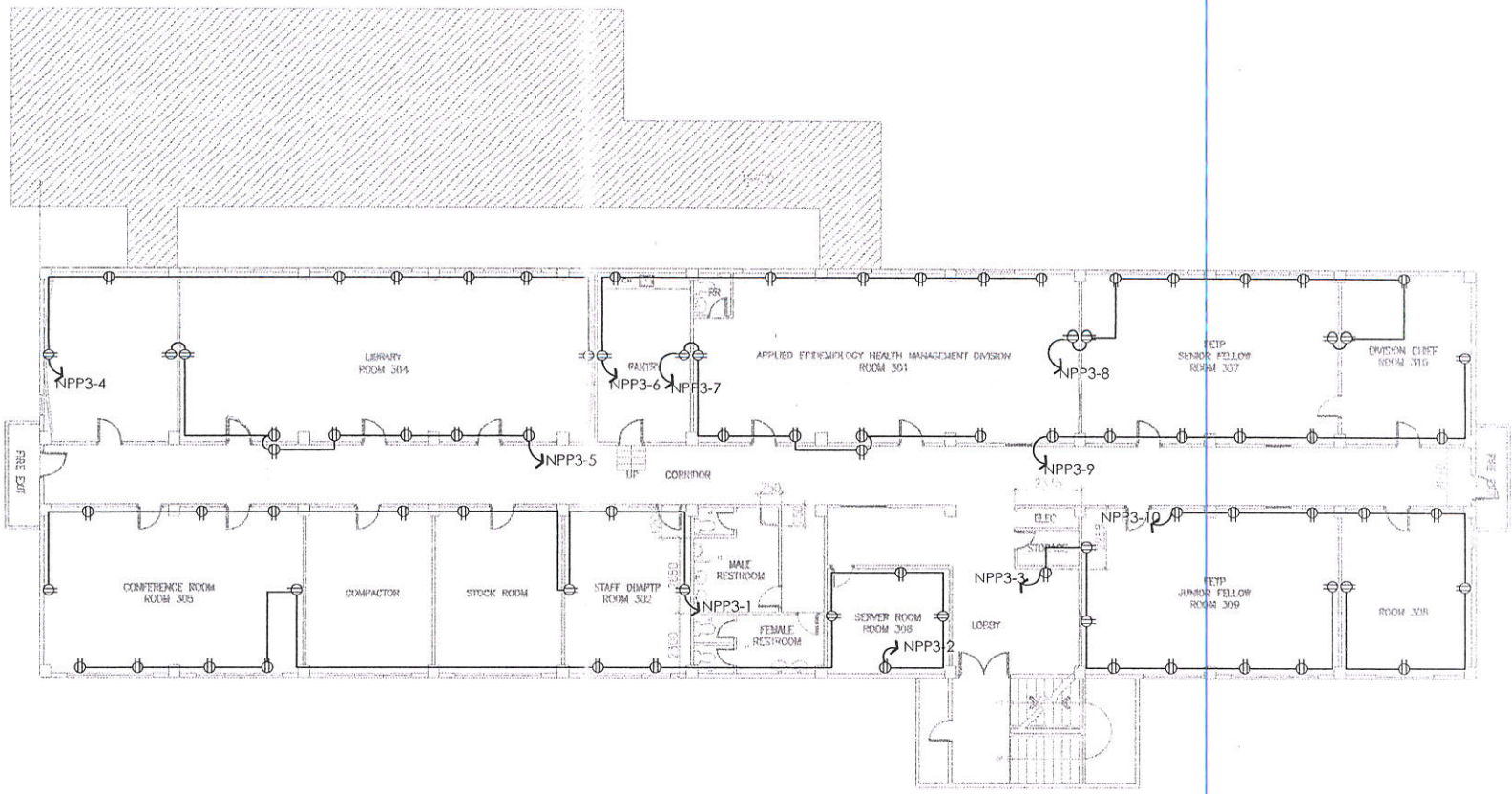

THIRD FLOOR POWER LAYOUT

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. : ____ Validity : ____
PTR No. : ____ Date : ____
Place : ____ TIN : ____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

Third Floor Power Layout

CONCURRED

APPROVED

LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-4

DRAWN BY: ACD/JMG
DATE: October 2019
REV. DATE: October 2019

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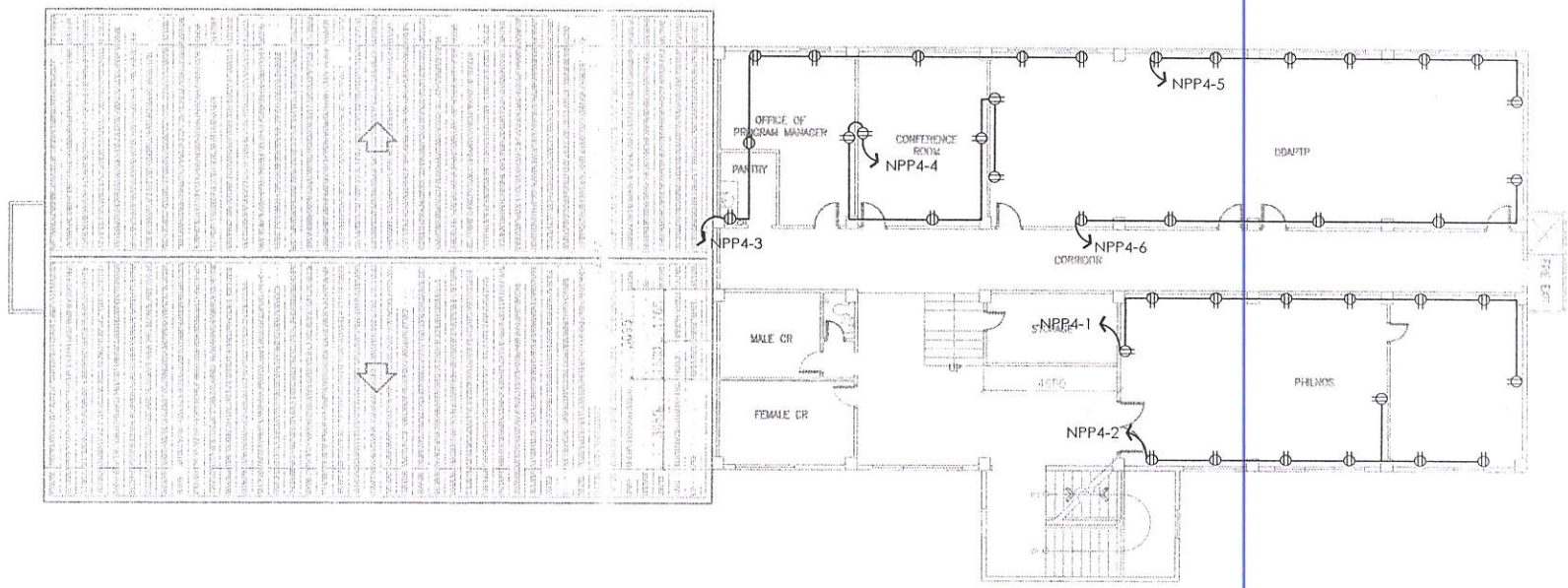

1 / E 5 **FOURTH FLOOR POWER LAYOUT**

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity _____
PTR No. _____ Date _____
Place _____ TIN _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

Fourth Floor Power Layout

CONCURRED

APPROVED

LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO.

E-5

DRAWN BY: ACDUMG

DATE: October 2019

REV. DATE: October 2019

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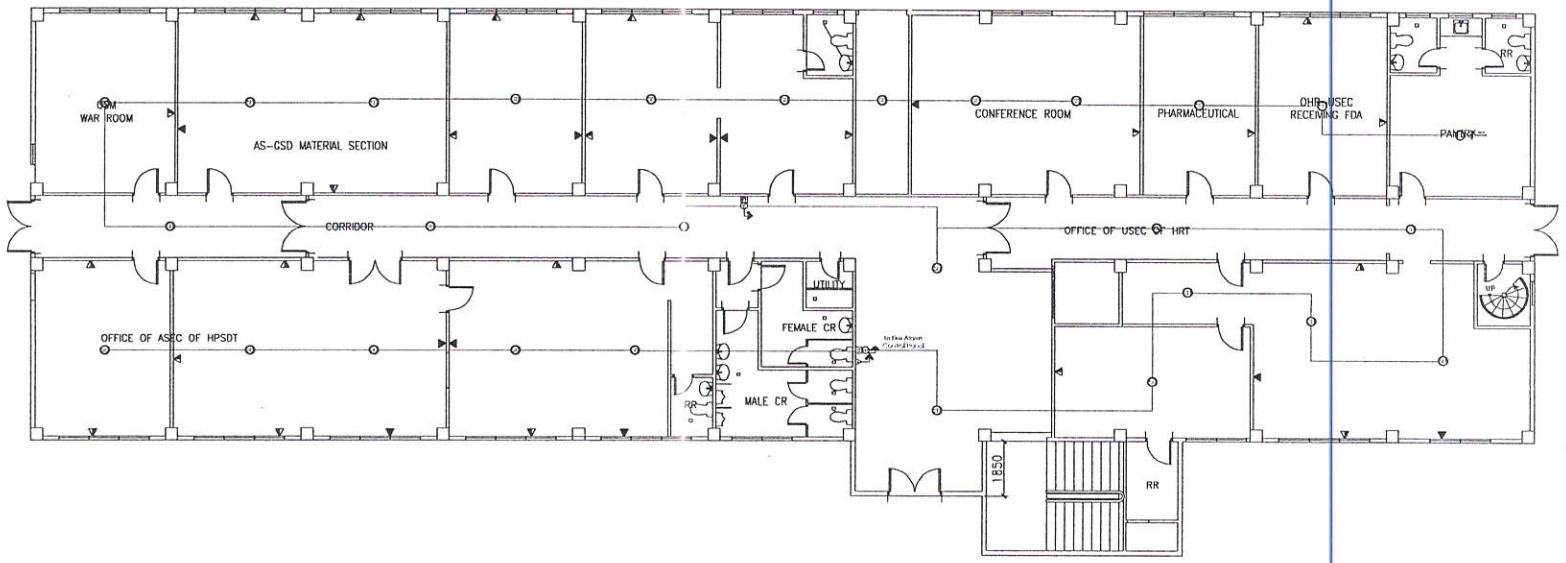
URL: http://www.doh.gov.ph



GROUND FLOOR AUXILIARY LAYOUT

1 / E 6

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity : _____
PTR No. _____ Date : _____
Place : _____ TIN : _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

As Shown

CONCURRED

APPROVED

LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-6

DRAWN BY: ACD/MKS
DATE: October 2019
REV. DATE: October 2019

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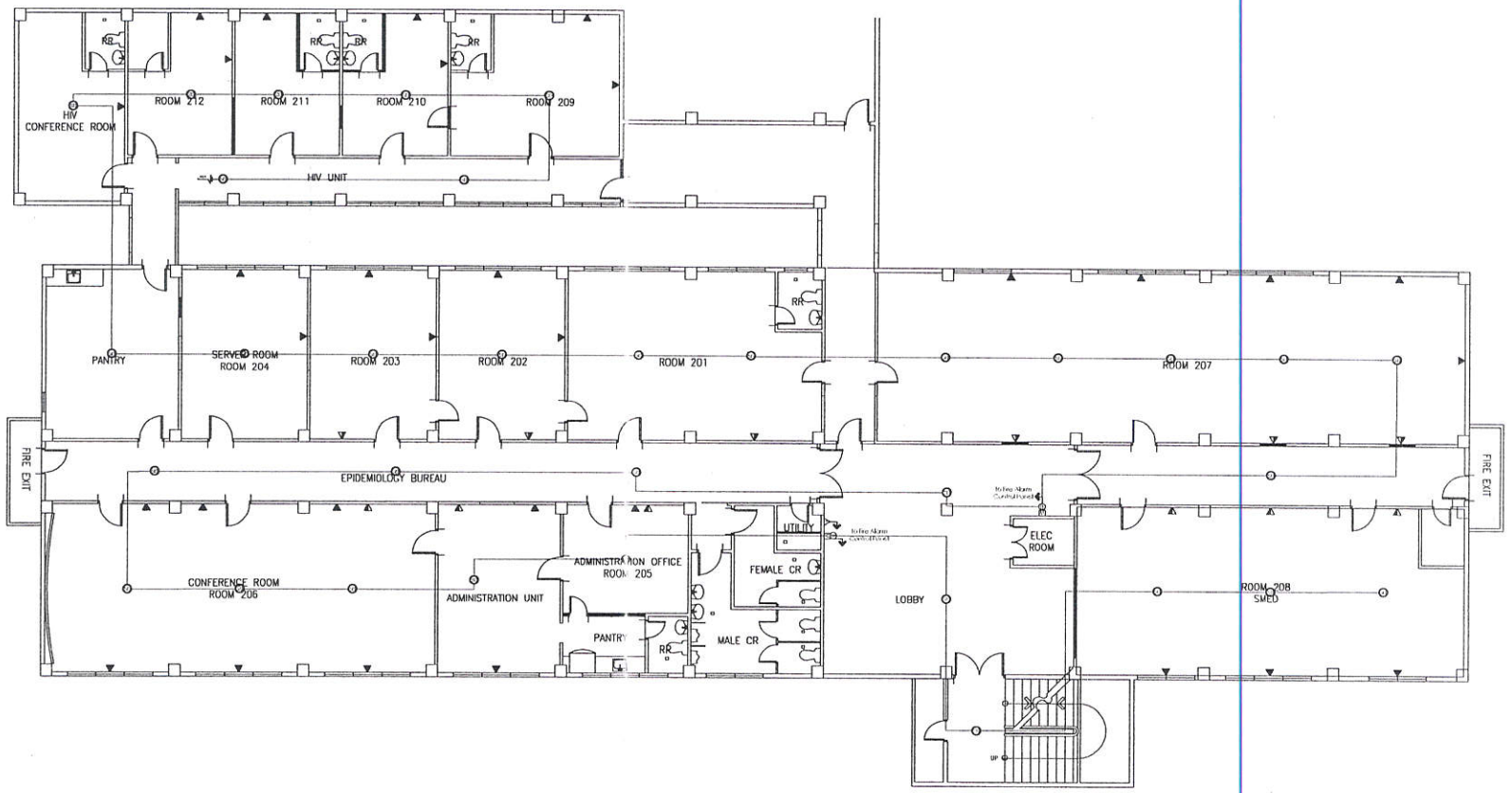
URL: http://www.doh.gov.ph



1 / E 7 **SECOND FLOOR AUXILIARY LAYOUT**

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity: _____
PTR No. _____ Date: _____
Place _____ TIN: _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

As Shown

CONCURRED

APPROVED

LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-7

DRAWN BY: ACD/JMG
DATE: October 2019
REV. DATE: October 2019

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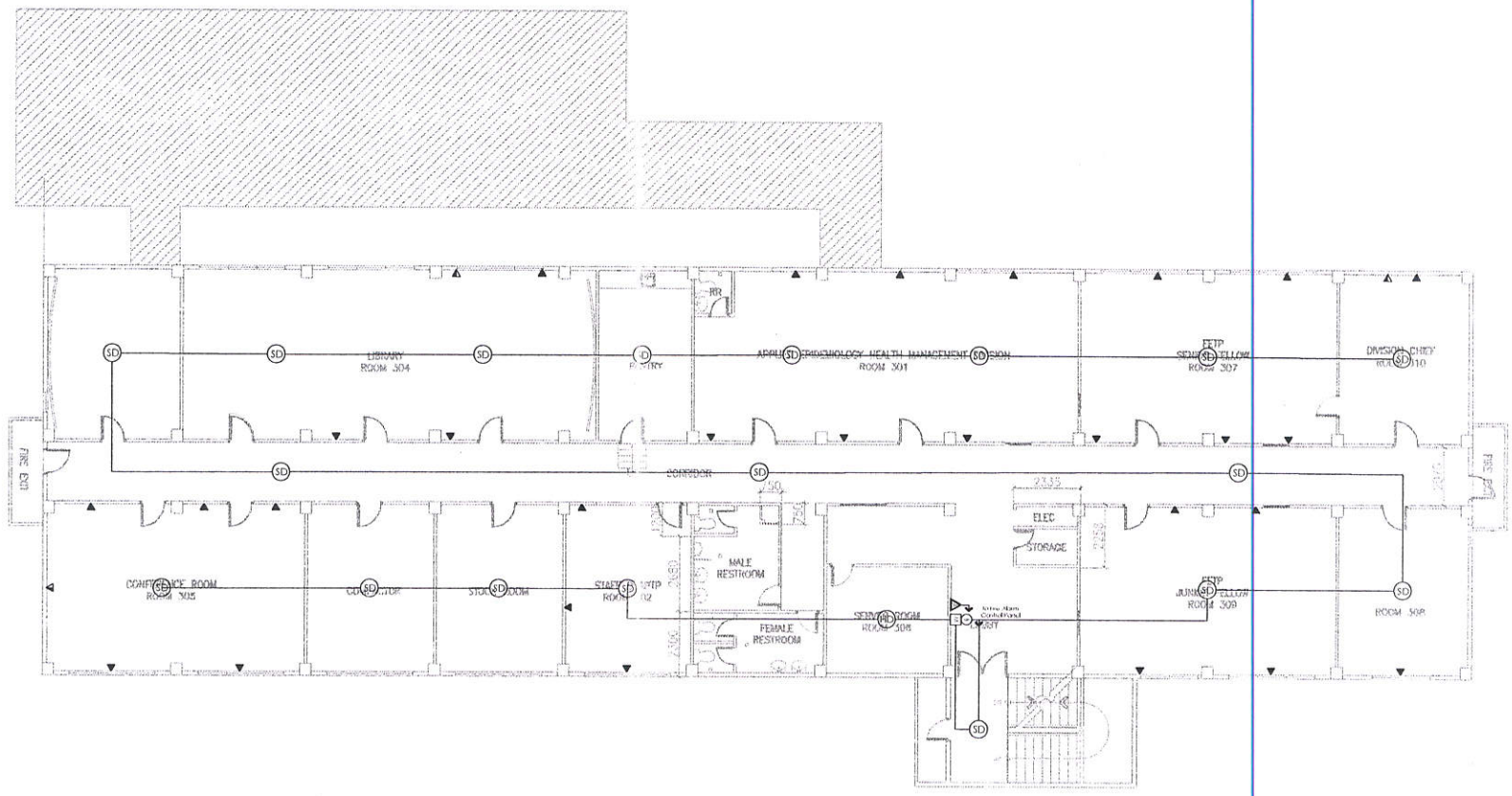
URL: http://www.doh.gov.ph



1 / E 8 **THIRD FLOOR AUXILIARY LAYOUT**

SCALE 1 : 100 M.

Republic of the Philippines DEPARTMENT OF HEALTH **HEALTH FACILITIES ENHANCEMENT PROGRAM** Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	PREPARED BY: **ARISTEO HUGO C. DE VERGARA**, REE, RMP ENGINEER III-HFEP **JEFFREY M. GOH**, REE ENGINEER III-HFEP	**RA 9266 SECTION 33** *Drawings and specifications and other contract documents duly signed stamped or sealed, as instruments of service, are the intellectual property and documents of the architect whether the object for which they are made is executed or not. It shall be unlawful for any person to duplicate or make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole, without the written consent of the architect or author of said documents.*	PROFESSIONAL ELECTRICAL ENGINEER PRC Reg. No. _____ Validity _____ PTR No. _____ Date _____ Place _____ TIN _____	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION **DOH Compound Sta. Cruz, Manila**	SHEET CONTENT As Shown	CONCURRED	APPROVED **LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI** DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO. E-8 DRAWN BY: ACL/JMG DATE: October 2019 REV. DATE: October 2019

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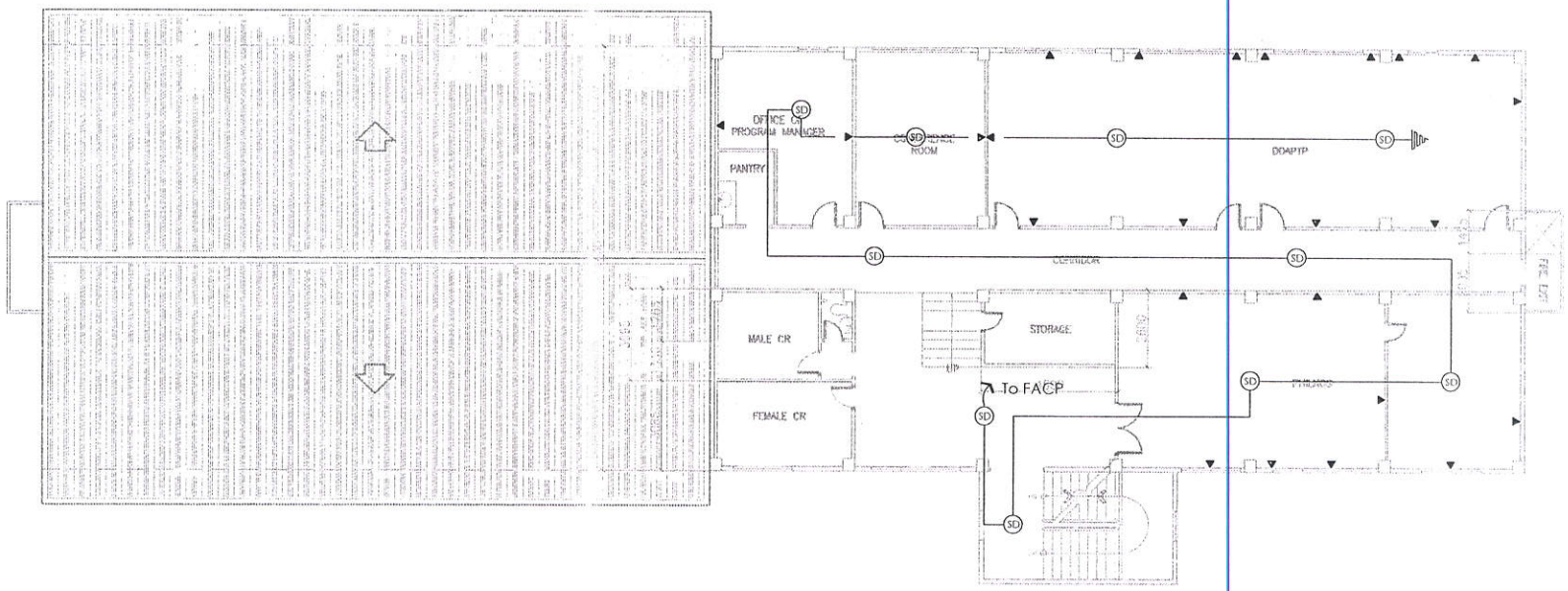

1 / E 7 **FOURTH FLOOR AUXILIARY LAYOUT**

SCALE 1 : 100 M.

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity : _____
PTR No. _____ Date : _____
Place _____ TIN : _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound Sta. Cruz, Manila

SHEET CONTENT

As Shown

CONCURRED

APPROVED

LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO.

E-9

DRAWN BY: ACD/MGS
DATE: October 2019
REV. DATE: October 2019

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URL: http://www.doh.gov.ph

LOAD SCHEDULE: PP1 (Power Panel 1)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	CO 200w	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Convenience Outlets	230	1Ø	7	1400	6.09				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
2	Convenience Outlets	230	1Ø	8	1600	6.96				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
3	Convenience Outlets	230	1Ø	9	1800		7.83			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
4	Convenience Outlets	230	1Ø	9	1800		7.83			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
5	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
6	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
7	Convenience Outlets	230	1Ø	8	1600	6.96				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
8	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
9	FDAS	230	1Ø		1000		4.35			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
10	Convenience Outlets	230	1Ø	10	2000		8.70			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
11	Convenience Outlets	230	1Ø	9	1800			7.83		10	2P	100	20	---	---
12	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
13	Spare	230	1Ø		800	3.48				10	2P	100	20	---	---
14	Spare	230	1Ø		700	3.04				10	2P	100	20	---	---
15	Spare	230	1Ø		800		3.48			10	2P	100	20	---	---
16	Spare	230	1Ø		700		3.04			10	2P	100	20	---	---
17	Spare	230	1Ø		800			3.48		10	2P	100	20	---	---
18	Spare	230	1Ø		700			3.04		10	2P	100	20	---	---
19	Spare	230	1Ø		800	3.48				10	2P	100	20	---	---
20	Spare	230	1Ø		700	3.04				10	2P	100	20	---	---
21	Spare	230	1Ø		800		3.48			10	2P	100	20	---	---
22	Spare	230	1Ø		700		3.04			10	2P	100	20	---	---
23	Spare	230	1Ø		800			3.48		10	2P	100	20	---	---
24	Spare	230	1Ø		700			3.04		10	2P	100	20	---	---
	TOTAL	230	3Ø	98	24100	40.87	41.74	41.74		25	3P	100	100	3 - 30 mm² THWN 1 - 8.0 mm² TW	40mmØ uPVC

DESIGN COMPUTATION
Feeder Conductors (F)
If = 1.732(41.74) = 72.29 A

Use : 3 - 30 mm² THWN
1 - 8.0 mm² TW
40 mmØ Upvc

100AT/100AF, 3P
240VAC, 25KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: PP2 (Power Panel 2)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	CO 200w	TOTAL VA LOAD	re Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
2	Convenience Outlets	230	1Ø	8	1600	6.96				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
3	Convenience Outlets	230	1Ø	8	1600		6.96			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
4	Convenience Outlets	230	1Ø	8	1600		6.96			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
5	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
6	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
7	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
8	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
9	Convenience Outlets	230	1Ø	8	1600		6.96			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
10	Convenience Outlets	230	1Ø	7	1400		6.09			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
11	Convenience Outlets	230	1Ø	7	1400			6.09		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
12	Convenience Outlets	230	1Ø	9	1800			7.83		10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
13	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
14	Spare	230	1Ø	9	1000	4.35				10	2P	100	20	---	---
15	Spare	230	1Ø		1500		6.52			10	2P	100	20	---	---
16	Convenience Outlets	230	1Ø	9	1800		7.83			10	2P	100	20	3 - 3.5 mm² THWN	20mmØ uPVC
17	Spare	230	1Ø		1500			6.52		10	2P	100	20	---	---
18	Spare	230	1Ø		1200			5.22		10	2P	100	20	---	---
19	Spare	230	1Ø		800	3.48				10	2P	100	20	---	---
20	Spare	230	1Ø		700	3.04				10	2P	100	20	---	---
21	Spare	230	1Ø		800		3.48			10	2P	100	20	---	---
22	Spare	230	1Ø		700		3.04			10	2P	100	20	---	---
23	Spare	230	1Ø		800			3.48		10	2P	100	20	---	---
24	Spare	230	1Ø		700			3.04		10	2P	100	20	---	---
	TOTAL	230	3Ø	125	28400	49.13	47.89	46.09		25	3P	100	100	3 - 30 mm² THWN 1 - 8.0 mm² TW	40mmØ uPVC

DESIGN COMPUTATION
Feeder Conductors (F)
If = 1.732(49.13) = 85.09 A

Use : 3 - 30 mm² THWN
1 - 8.0 mm² TW
40 mmØ Upvc

100AT/100AF, 3P
240VAC, 25KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

RA 9266 SECTION 33

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity _____
PTR No. _____ Date _____
Place _____ TIN _____

PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

Fire Detection and Alarm System Riser Diagram

CATV Riser Diagram

CONCURRED

APPROVED

LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO.

E-10

DRAWN BY: ACD/MC
DATE: October 2019
REV. DATE: October 2019

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph

LOAD SCHEDULE: PP3(Power Panel 3)

CKT No	LOAD DESCRIPTION	VOLT	PHASE	CO 200w	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
2	Convenience Outlets	230	1Ø	11	2200	9.57				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
3	Convenience Outlets	230	1Ø	8	1600		6.96			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
4	Convenience Outlets	230	1Ø	7	1400		6.09			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
5	Convenience Outlets	230	1Ø	8	1600			6.96		10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
6	Convenience Outlets	230	1Ø	7	1400			6.09		10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
7	Convenience Outlets	230	1Ø	7	1400	6.09				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
8	Convenience Outlets	230	1Ø	9	1800	7.83				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
9	Convenience Outlets	230	1Ø	7	1400		6.09			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
10	Convenience Outlets	230	1Ø	8	1600		6.96			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
11	Spare	230	1Ø		1500			6.52		10	2P	100	20	...	...
12	Spare	230	1Ø		1500			6.52		10	2P	100	20	...	...
13	Spare	230	1Ø		500	2.17				10	2P	100	20	...	...
14	Spare	230	1Ø		500	2.17				10	2P	100	20	...	...
15	Spare	230	1Ø		1000		4.35			10	2P	100	20	...	...
16	Spare	230	1Ø		1000		4.35			10	2P	100	20	...	...
17	Spare	230	1Ø		1000			4.35		10	2P	100	20	...	...
18	Spare	230	1Ø		1000			4.35		10	2P	100	20	...	...
19	Spare	230	1Ø		500	2.17				10	2P	100	20	...	...
20	Spare	230	1Ø		500	2.17				10	2P	100	20	...	...
21	Spare	230	1Ø		1000		4.35			10	2P	100	20	...	...
22	Spare	230	1Ø		1000		4.35			10	2P	100	20	...	...
23	Spare	230	1Ø		1000			4.35		10	2P	100	20	...	...
24	Spare	230	1Ø		1000			4.35		10	2P	100	20	...	...
	TOTAL	230	3Ø	81	24200	35.65	34.78	34.78		25	3P	100	100	3 - 30 mm² THWN 1 - 8.0 mm² TW	40 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(35.65) = 61.75 A

Use : 3 - 30 mm² THWN
1 - 8.0 mm² TW
40 mmØ Upvc

100AT/100AF, 3P
240VAC, 25KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: PP4 (Power Panel 4)

CKT No	LOAD DESCRIPTION	VOLT	PHASE	CO 200w	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Convenience Outlets	230	1Ø	8	1600	6.96				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
2	Convenience Outlets	230	1Ø	7	1400	6.09				10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
3	Convenience Outlets	230	1Ø	7	1400		6.09			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
4	Convenience Outlets	230	1Ø	6	1200		5.22			10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
5	Convenience Outlets	230	1Ø	7	1400			6.09		10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
6	Convenience Outlets	230	1Ø	5	1000			4.35		10	2P	100	20	3 - 3.5 mm² THWN	20 mmØ uPVC
7	Spare	230	1Ø		800	3.48				10	2P	100	20	...	...
8	Spare	230	1Ø		700	3.04				10	2P	100	20	...	...
9	Spare	230	1Ø		800		3.48			10	2P	100	20	...	...
10	Spare	230	1Ø		700		3.04			10	2P	100	20	...	...
11	Spare	230	1Ø		800			3.48		10	2P	100	20	...	...
12	Spare	230	1Ø		700			3.04		10	2P	100	20	...	...
13	Spare	230	1Ø		800	3.48				10	2P	100	20	...	...
14	Spare	230	1Ø		700	3.04				10	2P	100	20	...	...
15	Spare	230	1Ø		800		3.48			10	2P	100	20	...	...
16	Spare	230	1Ø		700		3.04			10	2P	100	20	...	...
17	Spare	230	1Ø		800			3.48		10	2P	100	20	...	...
18	Spare	230	1Ø		700			3.04		10	2P	100	20	...	...
	TOTAL	230	3Ø	40	12500	26.09	24.35	23.48		25	3P	100	70	3 - 22 mm² THWN 1 - 8.0 mm² TW	40 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(26.09) = 45.18 A

Use : 3 - 22 mm² THWN
1 - 8.0 mm² TW
40 mmØ Upvc

70AT/100AF, 3P
240VAC, 25KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: MPP1 (Main Power Panel 1)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	.....	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	PP1	230	3Ø	93	24100	40.87	41.74	41.74		25	3P	100	100	3 - 30 mm² THWN	40 mmØ uPVC
2	PP2	230	3Ø	125	28400	49.13	47.83	46.09		25	3P	100	100	3 - 30 mm² THWN	40 mmØ uPVC
3	PP3	230	3Ø	81	24200	35.65	34.78	34.78		25	3P	100	100	3 - 30 mm² THWN	40 mmØ uPVC
4	PP4	230	3Ø	40	12500	26.09	24.35	23.48		25	3P	100	70	3 - 22 mm² THWN	40 mmØ uPVC
5	Spare	230	3Ø		20000					25	3P	100	100	...	...
6	Spare	230	3Ø		20000					25	3P	100	100	...	...
	TOTAL	230	3Ø		129200	151.74	148.70	146.09		25	3P	400	300	3 - 150 mm² THWN 1 - 22 mm² TW	75 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(151.74) = 262.81 A

Use : 3 - 150 mm² THWN
1 - 22 mm² TW
75 mmØ Upvc

300AT/400AF, 3P
240VAC, 42KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:
ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP
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PROFESSIONAL ELECTRICAL ENGINEER
PRC Reg. No. _____ Validity _____
PTR No. _____ Date _____
Place _____ TIN _____

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

CONCURRED

APPROVED
LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-11
DRAWN BY: ACD/JMG
DATE: October 2019
REV. DATE: October 2019

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph

LOAD SCHEDULE: PPACU1 (Power Panel ACU 1)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	TOTAL V.A LOAD	Ampere Load / Phase				Circuit Breaker Rating				SIZES and NUMBERS of	
					AB	BC	CA	ABC	KA'C	POLE	AF	AT	CONDUCTORS	CONDUITS
1	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
2	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
3	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
4	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
5	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
6	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
7	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
8	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
9	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
10	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
11	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
12	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
13	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
14	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
15	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
16	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
17	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
18	Special Purpose Outlet	230	1Ø	2760			12.00		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
19	Special Purpose Outlet	230	1Ø	2760	12.00				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
20	Spare	230	1Ø	1058	4.60				10	2P	100	30	---	---
21	Special Purpose Outlet	230	1Ø	2760		12.00			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
22	Spare	230	1Ø	1058		4.60			10	2P	100	30	---	---
23	Spare	230	1Ø	2760			12.00		10	2P	100	30	---	---
24	Spare	230	1Ø	1840			8.00		10	2P	100	30	---	---
	TOTAL	230	3Ø	71691	103.6	103.6	104.5		42	2P	225	225	3 - 125 mm² THWN 1 - 22 mm² TW	75 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(104.5I + .25(14.5I) = 187.27 A

Overcurrent Protection (I_{ocp})
Iocp = 1.732(104.5I+1.5(14.5I)= 218.665 A

Use : 3 - 125mm² THWN
1 - 22mm² TW
75 mmØ uPVC

225AT/225AF, 3P
240VAC, 42kAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: PPACU2 (Power Panel ACU 2)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	TOTAL V.A LOAD	Ampere Load / Phase				Circuit Breaker Rating				SIZES and NUMBERS of	
					AB	BC	CA	ABC	KA'C	POLE	AF	AT	CONDUCTORS	CONDUITS
1	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
2	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
3	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
4	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
5	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
6	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
7	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
8	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
9	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
10	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
11	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
12	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
13	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
14	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
15	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
16	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
17	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
18	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
19	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
20	Special Purpose Outlet	230	1Ø	2760	12.00				10	2P	100	30	---	---
21	Special Purpose Outlet	230	1Ø	2760		12.00			10	2P	100	30	3 - 5.5mm² THWN	20 mmØ uPVC
22	Special Purpose Outlet	230	1Ø	2760		12.00			10	2P	100	30	---	---
23	Special Purpose Outlet	230	1Ø	2760			12.00		10	2P	100	30	---	---
24	Spare	230	1Ø	2760			12.00		10	2P	100	30	---	---
	TOTAL	230	3Ø	77165	113.5	111.0	111.0		42	2P	400	290	3 - 150 mm² THWN 1 - 22 mm² TW	90 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(113.5I + .25(14.5I) = 202.86 A

Overcurrent Protection (I_{ocp})
Iocp = 1.732(113.5I)+1.5(14.5I)= 234.253 A

Use : 3 - 150mm² THWN
1 - 22mm² TW
90 mmØ uPVC

250AT/400AF, 3P
240VAC, 42kAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:
ARISTEO HUGO C. DE VERGARA, REE, RME
ENGINEER III-HFEP
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PROFESSIONAL ELECTRICAL ENGINEER
PRC Reg. No. : _____ Validity : _____
PTR No. _____ Date : _____
Place _____ TIN _____

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH Compound
Sta. Cruz, Manila

SHEET CONTENT
Fire Detection and Alarm System Riser Diagram
CATV Riser Diagram

CONCURRED

APPROVED
LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-12
DRAWN BY: ACD/MG
DATE: October 2019
REV. DATE: October 2019

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URL: http://www.doh.gov.ph

LOAD SCHEDULE: PPACU3 (Power Panel ACU 3)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
2	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
3	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
4	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
5	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
6	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
7	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
8	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
9	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
10	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
11	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
12	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
13	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
14	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
15	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
16	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
17	Special Purpose Outlet	230	1Ø	2760			12.00		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
18	Spare	230	1Ø	2760			12.00		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
	TOTAL	230	3Ø	58880	87.0	87.0	82.0		42	2P	225	200	3 - 100 mm² THWN 1 - 22 mm² TW	75 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(87)+.25(14.5) = 156.96 A

Overcurrent Protection (I_{op})
Iop = 1.732(87)+1.5(14.5)= 188.355 A

Use : 3 - 100mm² THWN
1 - 22mm² TW
75 mmØ upvc

200AT/225AF, 3P
240VAC, 42KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: PPACU4 (Power Panel ACU 4)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
2	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
3	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
4	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
5	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
6	Special Purpose Outlet	230	1Ø	3335			14.50		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
7	Special Purpose Outlet	230	1Ø	3335	14.50				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
8	Spare	230	1Ø	1587	6.90				10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
9	Special Purpose Outlet	230	1Ø	3335		14.50			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
10	Spare	230	1Ø	1587		6.90			10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
11	Spare	230	1Ø	2760			12.00		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
12	Spare	230	1Ø	1840			8.00		10	2P	100	30	3 - 5.5 mm² THWN	20 mmØ uPVC
	TOTAL	230	3Ø	34454.0	50.4	50.4	49.0		25	2P	225	125	3 - 38 mm² THWN 1 - 14 mm² TW	50 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(51.5) + .25(14.5) = 93.57 A

Overcurrent Protection (I_{op})
Iop = 1.732(51.5)+1.5(14.5)= 124.964 A

Use : 3 - 38 mm² THWN
1 - 14 mm² TW
50 mmØ uPVC

125AT/225AF, 3P
240VAC, 25KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: PPACU4 (Power Panel ACU 4)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE	TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	PPACU1	230	3Ø	71691	103.6	103.6	104.5		42	2P	225	225	3 - 125 mm2 THWN 1 - 22 mm2 TW	75 mmØ uPVC
2	PPACU2	230	3Ø	77165	113.5	111	111		42	2P	400	250	3 - 150 mm2 THWN 1 - 22 mm2 TW	90 mmØ uPVC
3	PPACU3	230	3Ø	58880	87	87	82		42	2P	225	200	3 - 100 mm2 THWN 1 - 22 mm2 TW	75 mmØ uPVC
4	PPACU4	230	3Ø	34454	50.4	50.4	49		25	2P	225	125	3 - 38 mm2 THWN 1 - 14 mm2 TW	50 mmØ uPVC
	TOTAL	230	3Ø	242190	355	352	347		85	2P	800	700	2 SETS OF 3 - 250 mm² THWN 1 - 30 mm² TW	110 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(355) + .25(14.5) = 620.27 A

Overcurrent Protection (I_{op})
Iop = 1.732(355)+1.5(14.5)= 651.665 A

Use : 2 SETS OF 3 - 250 mm² THWN
1 - 30 mm² TW
110 mmØ uPVC

700AT/800AF, 3P
240VAC, 85KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

LOAD SCHEDULE: MCB 1 (Main Central Breaker 1)

CKT No.	LOAD DESCRIPTION	VOLT	PHASE		TOTAL VA LOAD	Ampere Load / Phase AB	BC	CA	ABC	Circuit Breaker Rating KAIC	POLE	AF	AT	SIZES and NUMBERS of CONDUCTORS	CONDUITS
1	MPP	230	3Ø		129500	151.74	148.70	146.09		42	3P	400	300	3-125 mm² THWN	75 mmØ uPVC
2	PPACU	230	3Ø		242190	355	352	347		85	2P	800	700	2 SETS OF 3-250 mm² THWN	110 mmØ uPVC
3	Space	230	3Ø												
	TOTAL	230	3Ø		371690	506.74	500.70	493.09		85	3P	800	800	2 SETS OF 3-250mm² THWN 1 - 30 mm² TW	90 mmØ uPVC

DESIGN COMPUTATION:
Feeder Conductors (If)
If = 1.732(506.74)(0.8)+ 0.25(14.5)= 705.76 A

Overcurrent Protection (I_{op})
Iop = 1.732(506.74)(0.8) +1.5(14.5)= 739.81 A

Use : 2 SETS 3 - 250 mm² THWN
1 - 30 mm² TW
110 mmØ Upvc

800AT/800AF, 3P
240VAC, 85KAIC
BOLT-ON, INDUSTRIAL-TYPE
THERMAL MAGNETIC ACB

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:
ARISTEO HUGO C. DE VERGARA, REE, RMP
ENGINEER III-HFEP

JEFFREY M. GOH, REE
ENGINEER III-HFEP

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PROFESSIONAL ELECTRICAL ENGINEER
PRC Reg. No. _____ Validity _____
PTR No. _____ Date _____
Place _____ TIN _____

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

CONCURRED

APPROVED
LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. E-14
DRAWN BY: ACD/JMR
DATE: October 2019
REV. DATE: October 2019

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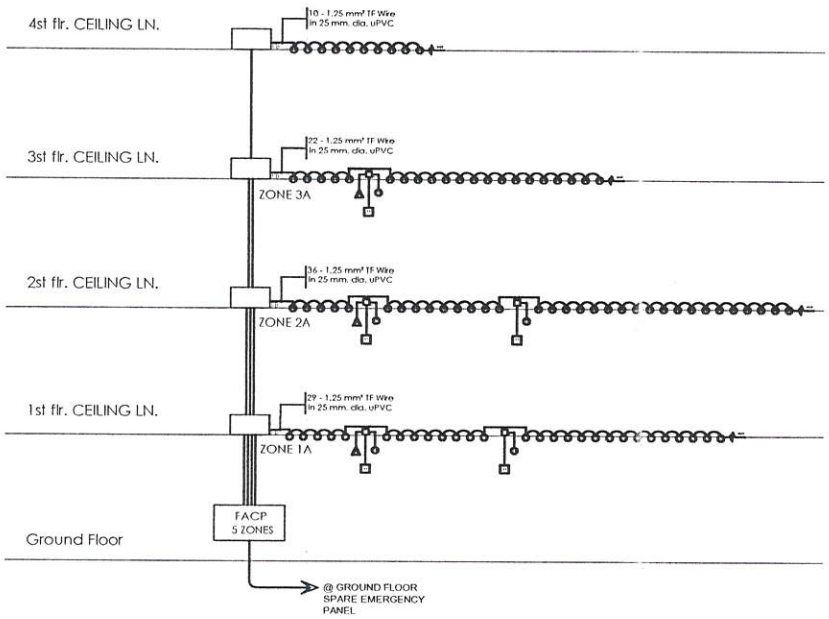
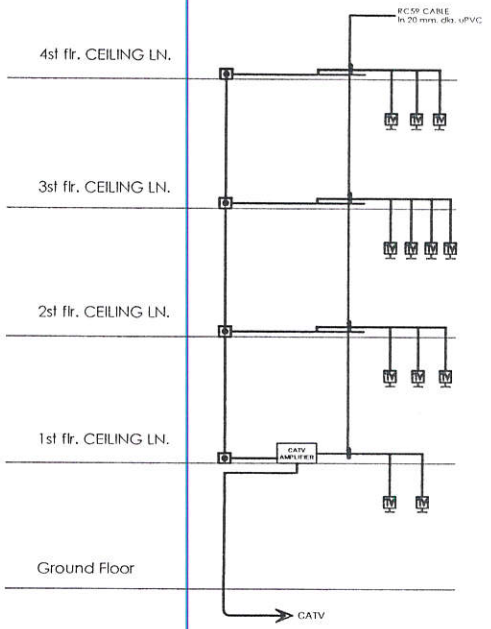


1 E 9 **SMOKE AND HEAT DETECTOR RISER DIAGRAM**
N T S



1 E 10 **TELEVISION RISER DIAGRAM**
N T S

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:
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PROFESSIONAL ELECTRICAL ENGINEER
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Place : TIN :

PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
LOCATION
DOH Compound Sta. Cruz, Manila

SHEET CONTENT
Fire Detection and Alarm System Riser Diagram
CATV Riser Diagram

CONCURRED

APPROVED
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SHEET NO.
E-16
DRAWN BY: ACD/JMC
DATE: October 2019
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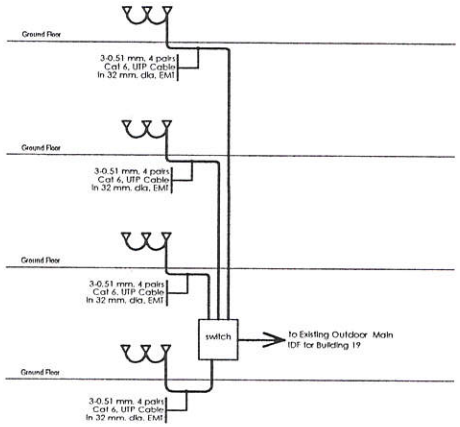
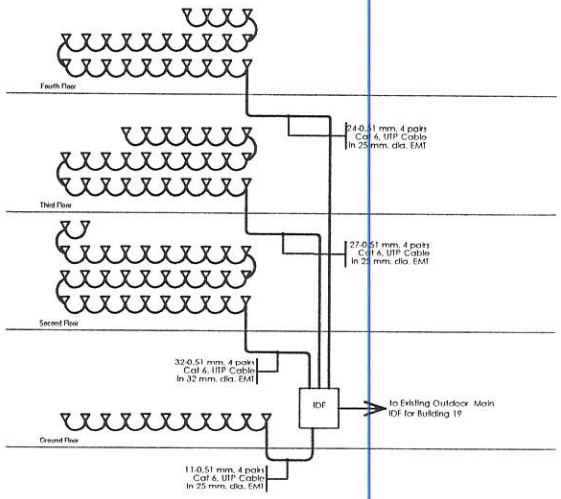


1 E 12 **TELEPHONE AND LAN RISER DIAGRAM**
N T S



2 E 12 **LOCAL AREA NETWORK RISER DIAGRAM**
N T S

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
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PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound Sta. Cruz, Manila

SHEET CONTENT

Riser Diagram

CONCURRED

APPROVED

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HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO.

E-17

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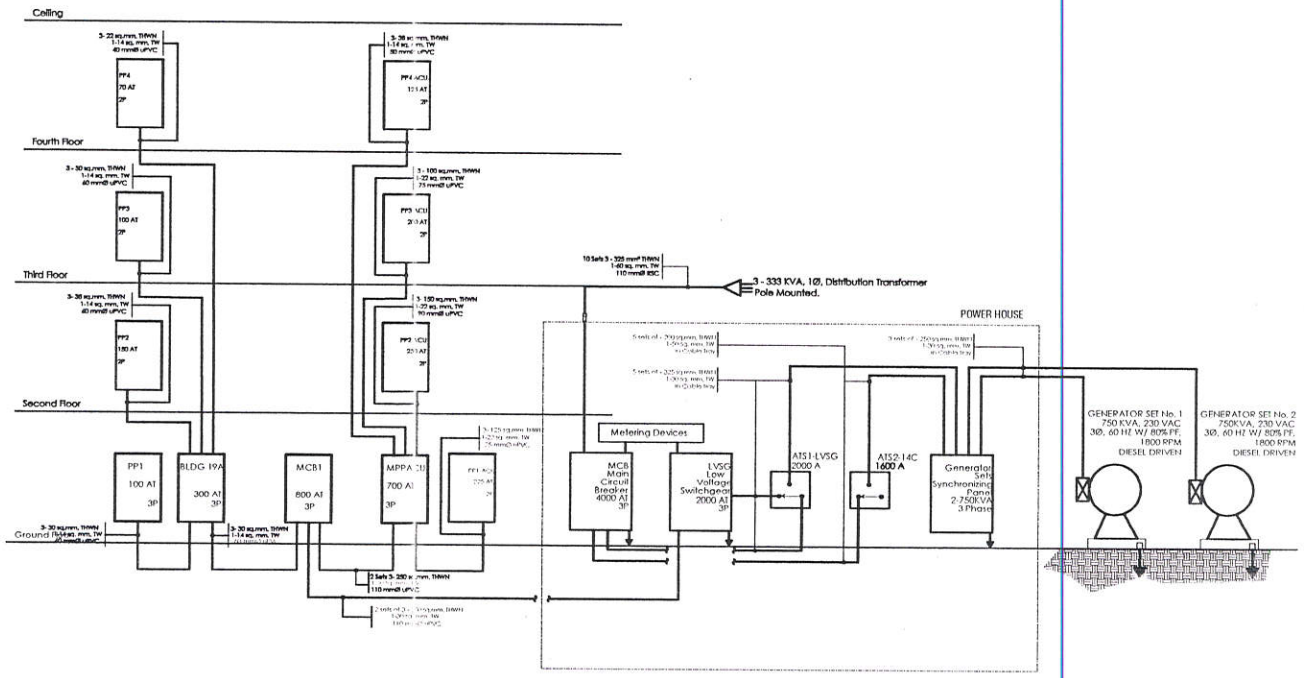

POWER RISER DIAGRAM

1 / E 14 — N T S

Republic of the Philippines
DEPARTMENT OF HEALTH

HEALTH FACILITIES ENHANCEMENT PROGRAM

Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

PREPARED BY:

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ENGINEER III-HFEP

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PROFESSIONAL ELECTRICAL ENGINEER

PRC Reg. No. _____ Validity _____
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PROJECT

STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19

LOCATION

DOH Compound
Sta. Cruz, Manila

SHEET CONTENT

Riser Diagram

CONCURRED

APPROVED

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SHEET NO.

E-18

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GENERAL PLUMBING NOTES

1. ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE NATIONAL PLUMBING CODE AND THE RULES AND REGULATIONS OF THE CASTING LOCAL CODES AND ORDINANCES. NOTHING CONTAINED IN THE DRAWINGS SHALL BE CONSTRUED TO CONFLICT WITH THE NATIONAL AND LOCAL ORDINANCE OR LAW GOVERNING THE IMPLEMENTATION OF THE PLUMBING WORKS.
2. REFER TO ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS AND INVESTIGATE ALL POSSIBLE INTERFERENCES AND CONDITIONS AFFECTING PLUMBING WORKS.
3. IT IS NOT INTENDED THAT DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND OTHER APPURTENANCES. FURNISH AND INSTALL IF NECESSARY, ALL ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT OR INDICATED IN THE DRAWINGS, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN CHARGE.
4. PERFORM ALL LABOR IN A FIRST CLASS AND NEAT WORKMANSHIP BY SPECIALISTS SKILLED IN THEIR TRADES. SUCH SPECIALISTS AND THEIR WORK SHALL BE TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN-CHARGE.

Basic Materials

1. PROVIDE MATERIALS THAT ARE NEW AND IN CONFORMITY WITH THE MATERIAL SPECIFICATIONS AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN CHARGE.
2. FOR OTHER REQUIRED MISCELLANEOUS MATERIALS NOT SPECIFICALLY MENTIONED, PROVIDE THE BEST OF ITS KIND.
3. SUBMIT SAMPLES OF MATERIALS FOR APPROVAL AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN-CHARGE.
4. CONFORM ALL APPLICABLE PIPES AND MATERIALS FOR VARIOUS SERVICES TO THE STANDARDS OUTLINED BELOW.

Plumbing Fixtures

1. INSTALL ALL PLUMBING FIXTURES FREE AND OPEN IN A MANNER TO ACCESS FOR CLEANING. FURNISH WITH BRACKETS, CLEATS, PLATES AND ANCHORS REQUIRED TO SUPPORT THE FIXTURE RIGIDLY IN PLACE.
2. VENT AWAY AT A SUFFICIENT DISTANCE, BUT NOT LESS THAN 12 INCH (12.7 mm), ALL SERVICE PIPES, VALVES AND HITTINGS FROM SURFACES AND LOCATIONS WHICH MAY REQUIRE FINISH COAT OR COVERING.
3. EXTEND THE PIPING TO ALL FIXTURES, OUTLETS AND EQUIPMENT FROM REQUIRED GATE VALVES INSTALLED IN EACH BRANCH NEAR RISERS.

Shut-Offs

1. PROVIDE ENTIRE SYSTEM WITH VALVES SO LOCATED THAT THE SYSTEM OR PORTIONS OF IT CAN BE OPERATED, REPAIRED AND REPLACED AS WELL AS AFFORDING COMPLETE CONTROL OF THE WATER SUPPLY TO EACH GROUP OF FIXTURES. WHEN REQUIRED, PROVIDE ALSO PRESSURE REDUCING VALVES.

Soil, Waste, Drain and Vent Pipes

1. INSTALL ALL PLUMBING WORKS IN CONFORMITY WITH ALL PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE AND APPLICABLE REQUIREMENTS OF EXISTING LOCAL CODES.

   DRAINAGE SYSTEM. WHEN ROCK IS ENCOUNTERED, EXTEND EXCAVATION TO A DEPTH OF 150mm BELOW THE PIPE
2. EXCAVATE TO REQUIRED DEPTHS AND GRADES ALL EXCAVATIONS REQUIRED FOR THE INSTALLATION OF PLUMBING AND

   BOTTOM.
3. LAY WATER SUPPLY PIPES AND SEWER IN SEPARATE TRENCHES.

Joints and Fittings

1. MAKE ALL JOINTS WATER TIGHT, FOR JOINING PIPES, USE THE FOLLOWING:

   a. CEMENT PIPES:
   GROUT WITH CEMENT, MIX ALL AROUND THE JOINTS IN A CONSISTENT MANNER. DO NOT ALLOW GROUT TO BULGE INSIDE PIPE INTERIORS.

   b. uPVC PIPES:
   USE APPROPRIATE COUPLINGS AND GLUE AT JOINTS

   c. FUSIOTHERM/FUSION WELD PIPES:
   USE APPROPRIATE FUSION WELD MACHINES AT JOINTS

Cleanouts

1. FOR CLEANOUTS STEMMING FROM CAST IRON BELL AND SPIGOT PIPES OR uPVC SUBSTITUTES THEREOF, PROVIDE WITH LONG SWEEP QUARTER BEND OR ONE OR TWO EIGHT BENDS EXTENDED TO AN EASILY ACCESSIBLE PLACE AND GENERALLY WHERE INDICATED IN THE DRAWING.

Traps

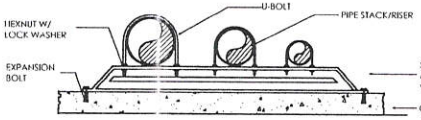
1. EXCEPT FOR THE PRESENCE OF GREASE INTERCEPTOR AND OTHER DEVICES WHERE TRAP IS AN INTEGRAL PART OF THE DESIGN, EQUIP WITH A TRAP EVERY FIXTURE AND EQUIPMENT REQUIRING CONNECTION TO THE DRAINAGE SYSTEM.
2. SET EACH TRAP AS CLOSE AS POSSIBLE TO THE FIXTURE SERVED AND RENDER LEVEL WITH RESPECT TO THEIR WATER SEAL.

LEGENDS & SYMBOLS:

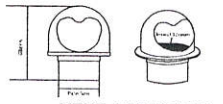
———	SEWER LINE	DS	DOWN SPOUT	G.I.	GALVANIZED IRON
———	STORM DRAINAGE LINE	⋈	GATE VALVE (GV)	uPVC	UNPLASTICIZED POLYVINYL CHLORIDE
———	VENT	⋈	CHECK VALVE (CV)	PPRC (Ph20)	PP RandomCopolymerType 3 (Fusion Weld)
———	COLD WATER LINE	WR	WATER RISER	SV	SEPTIC VAULT
———	HOT WATER LINE	⊕ FCO	GROUND CLEAN OUT	AAV	AIR ADMITTANCE VALVE (STUDOR VENT CAP)
SHO	SHOWER	CB	CATCH BASIN	AC	ABOVE CEILING
WC	WATER CLOSET	SR/SS	SEWER RISER/SOIL STACK	CDP	CONCRETE DRAINAGE PIPE
LAV	LAVATORY	SD	SHOWER DRAIN	F	FAUCET
□	FLOOR DRAIN (FD)	VAC	VENT ABOVE CEILING		
⊕ FCO	FLOOR CLEANOUT	VSTR	VENT STACK THRU ROOF		

DESIGN DATA FOR PIPE BRACKET

NOMINAL PIPE SIZE (mm)	PIPE OUTSIDE DIAMETER (mm)	ROD DIAMETER	M	S	P	ANGLE BAR	
						1 x 8 (mm)	thk (mm)
25	33.4	9.5	42.9	50	142.9	20 x 20	3
30	42.2	9.5	51.7	50	151.7	20 x 20	3
38	48.3	9.5	57.8	50	157.8	25 x 25	3
50	60.3	9.5	69.8	50	169.8	25 x 25	3
65	73.0	12.7	85.7	50	185.7	50 x 50	5
75	88.9	12.7	101.6	75	251.6	50 x 50	5
100	114.3	12.7	127.0	75	277.0	75 x 75	8
150	168.3	20.6	188.3	75	338.3	75 x 75	8



1 P 1 PIPE BRACKET DET. N T S

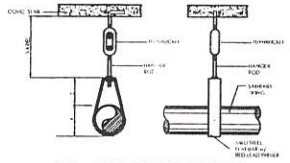


3 P 1 VENT CAP DETAIL N T S

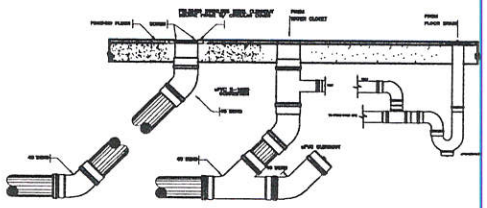
4 P 1 GUTTER DRAIN N T S

DESIGN DATA FOR PIPE HANGER

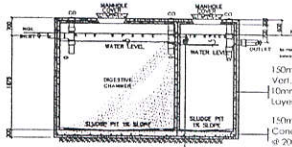
NOMINAL PIPE SIZE (mm)	PIPE OUTSIDE DIAMETER (mm)	ROD DIAMETER	R	S	FLAT BAR	
					W (mm)	thk (mm)
25	33.4	9.5	47.9	50	25	3
30	42.2	9.5	51.7	65	25	3
38	48.3	9.5	57.8	77	25	3
50	60.3	9.5	69.8	85	50	5
65	73.0	12.7	85.7	105	50	5
75	88.9	12.7	101.6	120	50	5
100	114.3	12.7	127.0	200	50	5
150	168.3	20.6	188.3	215	75	8

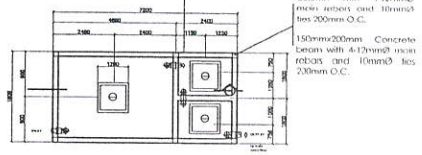


2 P 1 PIPE HANGER DET. N T S



5 P 1 FLOOR CLEANOUT & DRAIN CONNECTION N T S





4 P 1 SEPTIC TANK DETAILS N T S

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			ENGR. EUGENIO B. REYES III, CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10	GROUND FLOOR PLAN		FERDITO C. LAVELINO, MD, MHA, PHSAE OIC DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHFACILITIES ENHANCEMENT PROGRAM	P-1
	PRC REG. No. : Validity	PRC Reg No. : Validity	PRC Reg No. : Validity	LOCATION		PRC Reg No. : Validity			DRAWN BY
	PTR No. : Date	PTR No. : Date	PTR No. : Date	DOH COMPOUND STA. CRUZ MANILA		PTR No. : Date			DATE
	Place : TIN	Place : TIN	Place : TIN			Place : TIN			REV BY
									REV DATE 10/15/2015

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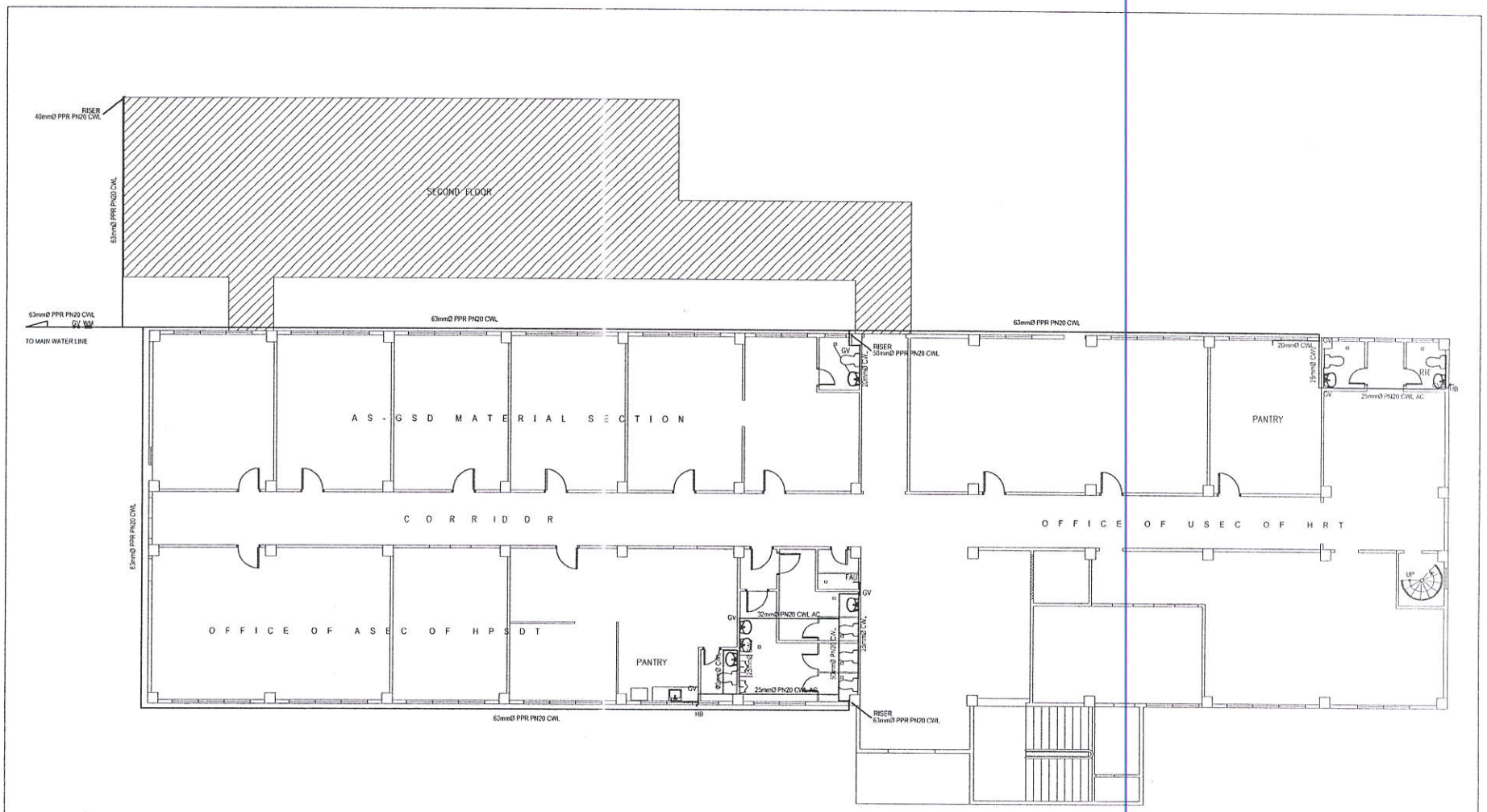
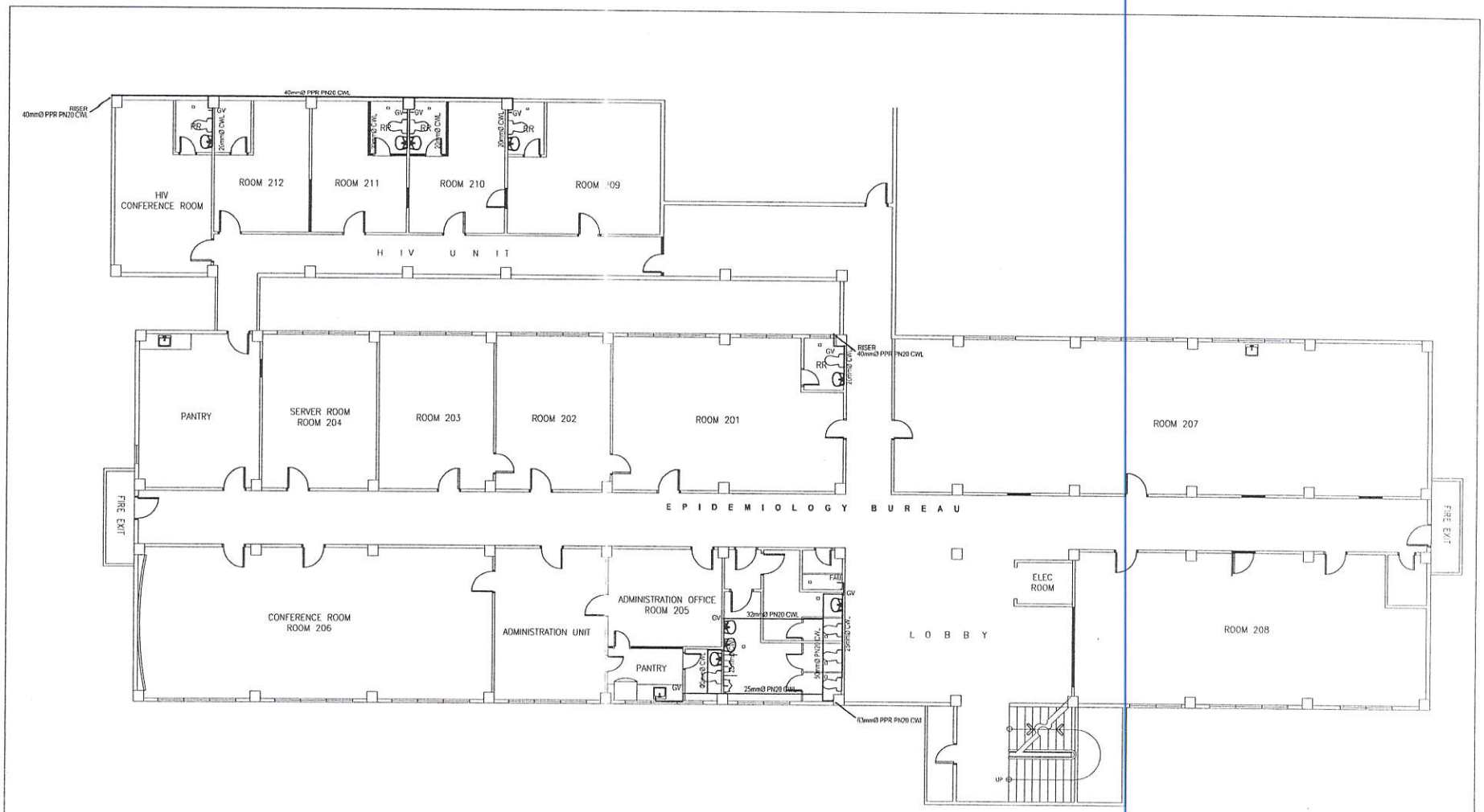
URL: http://www.doh.gov.ph



1 / P 2A GROUND FLOOR WATERLINE LAYOUT

SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER: REVERINO B. REYES III, CE, SE , MSCE ENGINEER IV	PROJECT: STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19	SHEET CONTENTS: GROUND FLOOR WATER LINE LAYOUT	CHECKED BY	CONCURRED: FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED: LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO. P-2A
	PRC REG. No. / Validity		PRC Reg. No. / Validity	LOCATION: DOH COMPOUND STA. CRUZ MANILA		PRC Reg. No. / Validity			DRAWN BY / DES. / REV. BY / REV. DATE: 10/30/2015
	PTR No. / Date		PTR No. / Date			PTR No. / Date			
	Place / TIN		Place / TIN			Place / TIN			



Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER SEVERINO T. REYES III, CE, SE , MSCE ENGINEER IV	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS SECOND FLOOR WATER LINE LAYOUT	CHECKED BY	CONFORMED FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHFACILITIES ENHANCEMENT PROGRAM	SHEET NO. P-2B

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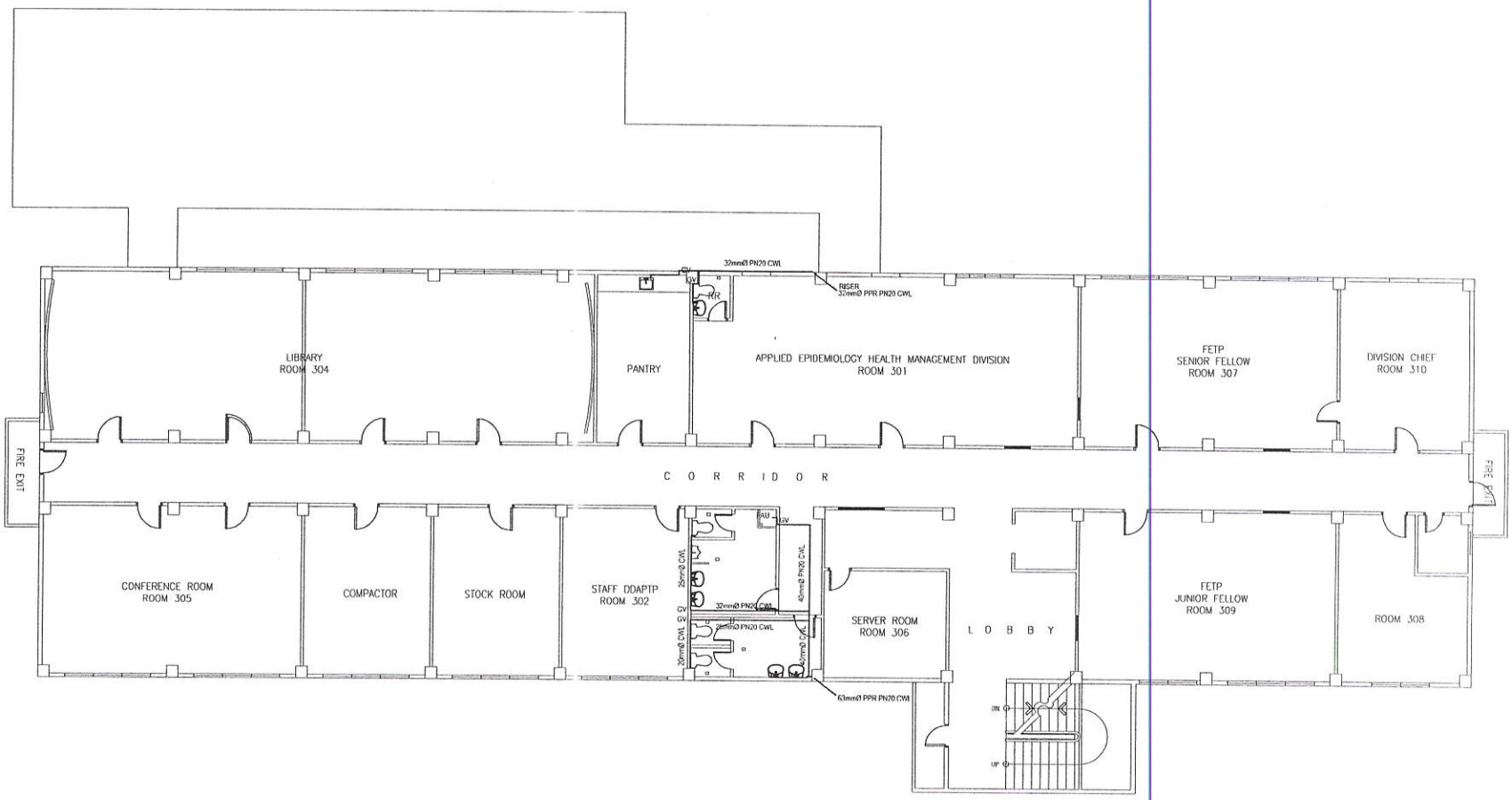

1 / P | 2C THIRD FLOOR WATERLINE LAYOUT

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 6, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
PRC REG. No. / Validity:		SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19	THIRD FLOOR WATER LINE LAYOUT		FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	P-2C
PTR No. / Date:		PRC Reg. No. / Validity:	LOCATION					DRAWN BY:
Place / TIN:		PTR No. / Date:	DOH COMPOUND STA. CRUZ MANILA					DATE:
		Place / TIN:						REVISED BY:
								REVISED: 05/02/2018

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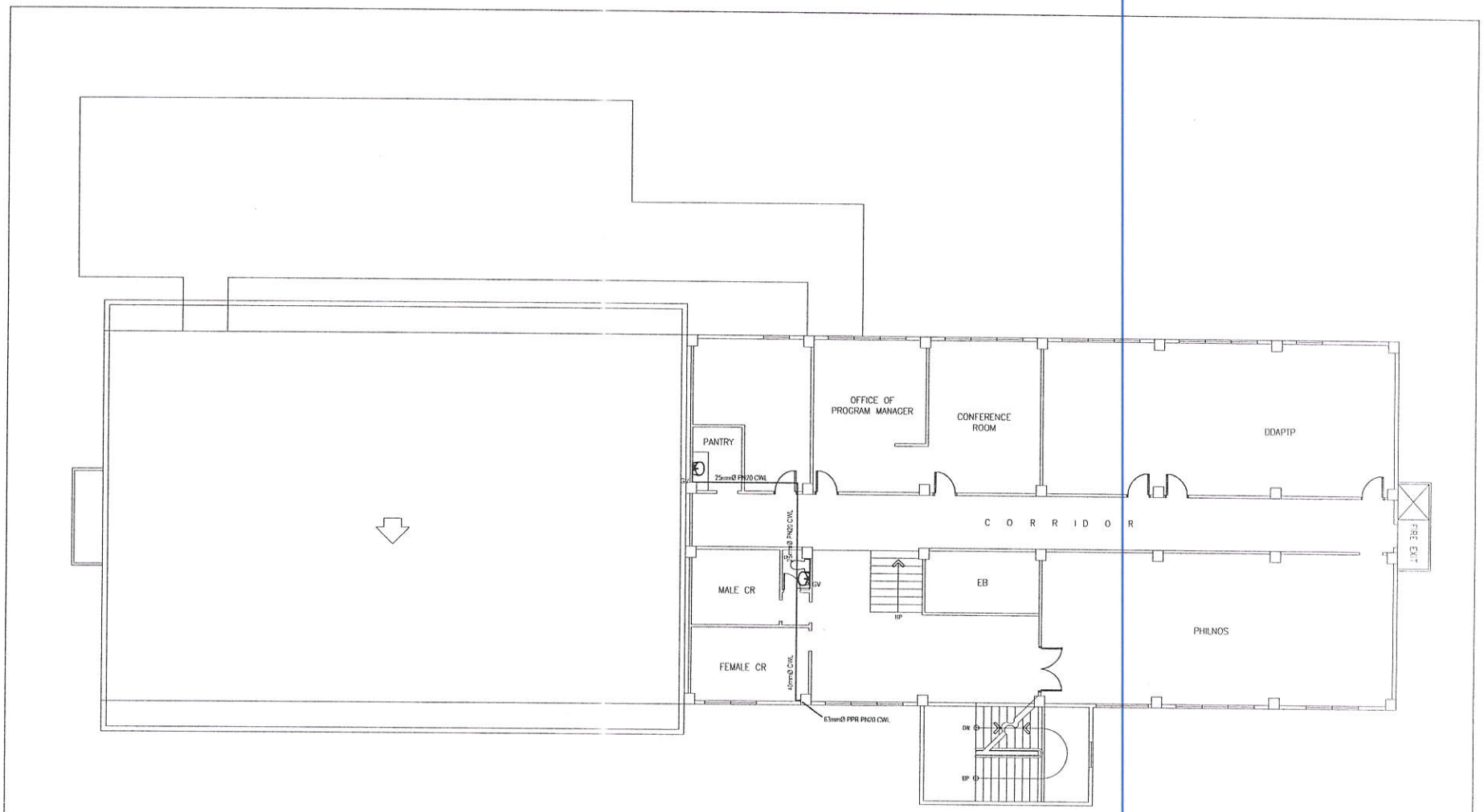
URL: http://www.doh.gov.ph



1 / P | 2D

FOURTH FLOOR WATERLINE LAYOUT

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
		SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10 LOCATION: DOH COMPOUND STA. CRUZ MANILA	FOURTH FLOOR WATER LINE LAYOUT		FERDINITO L. AVELINO, MD, MHA, PHSAE DIRECTOR III DISEASE PREVENTION AND CONTROL BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	P-2D

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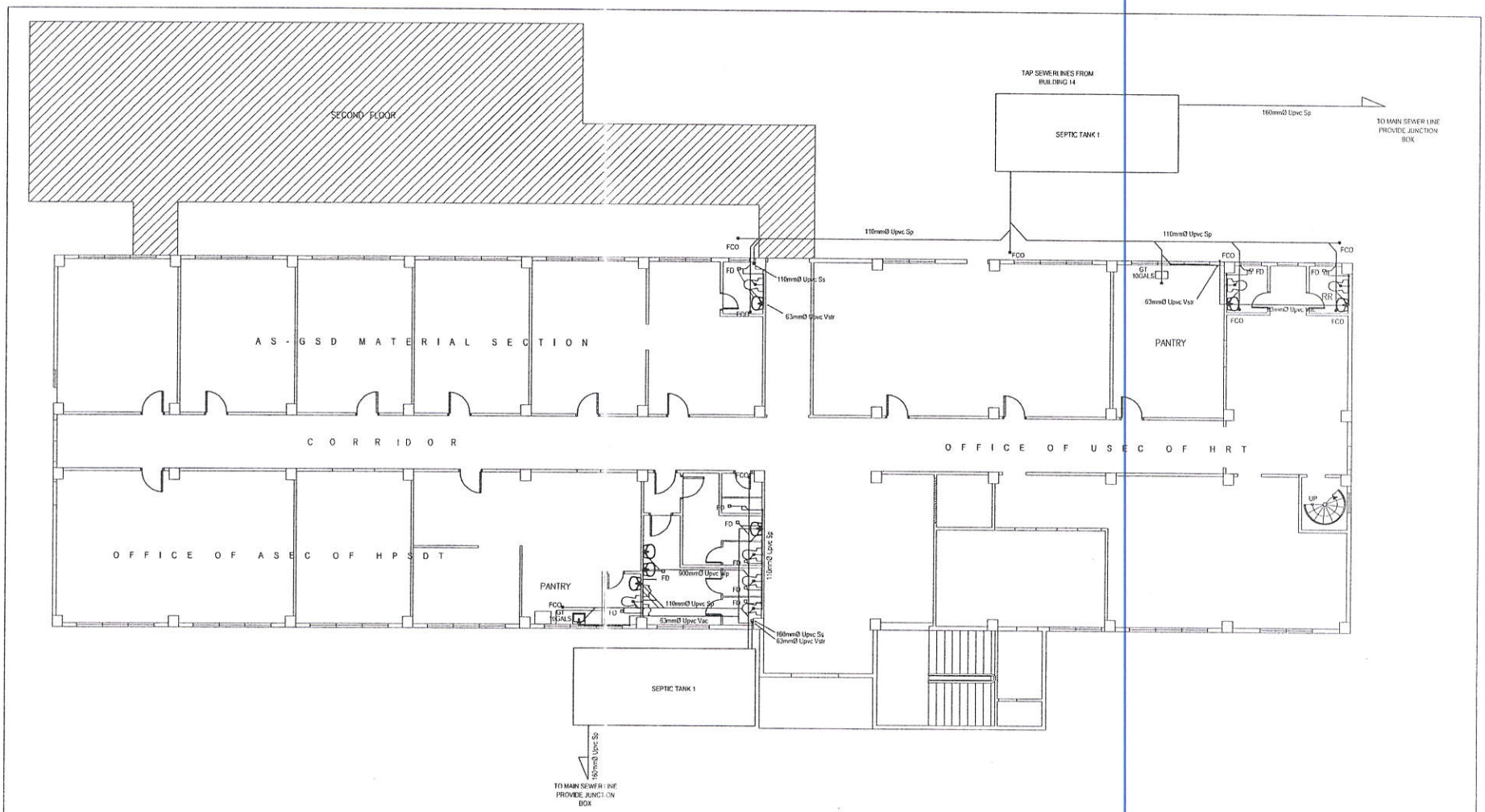

1 / P 3A SCALE

GROUND FLOOR SEWERLINE AND VENT LAYOUT

1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 6, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
PRC REG. No. / Validity		SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19	GROUND FLOOR SEWERLINE AND VENT LAYOUT	PRC Reg. No. / Validity	FERCHITO L. AVELINO, MD, MHA, FPSAE OIC-CHIEF OF EPIDEMIOLOGY BUREAU	LEONITA P. GOROGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	P-3A
PTR No. / Date		PRC Reg. No. / Validity	LOCATION		PTR No. / Date			DRAWN BY / DATE
Place / TIN		PTR No. / Date	DOH COMPOUND STA CRUZ MANILA		Place / TIN			REVISED / REV. DATE
		Place / TIN						

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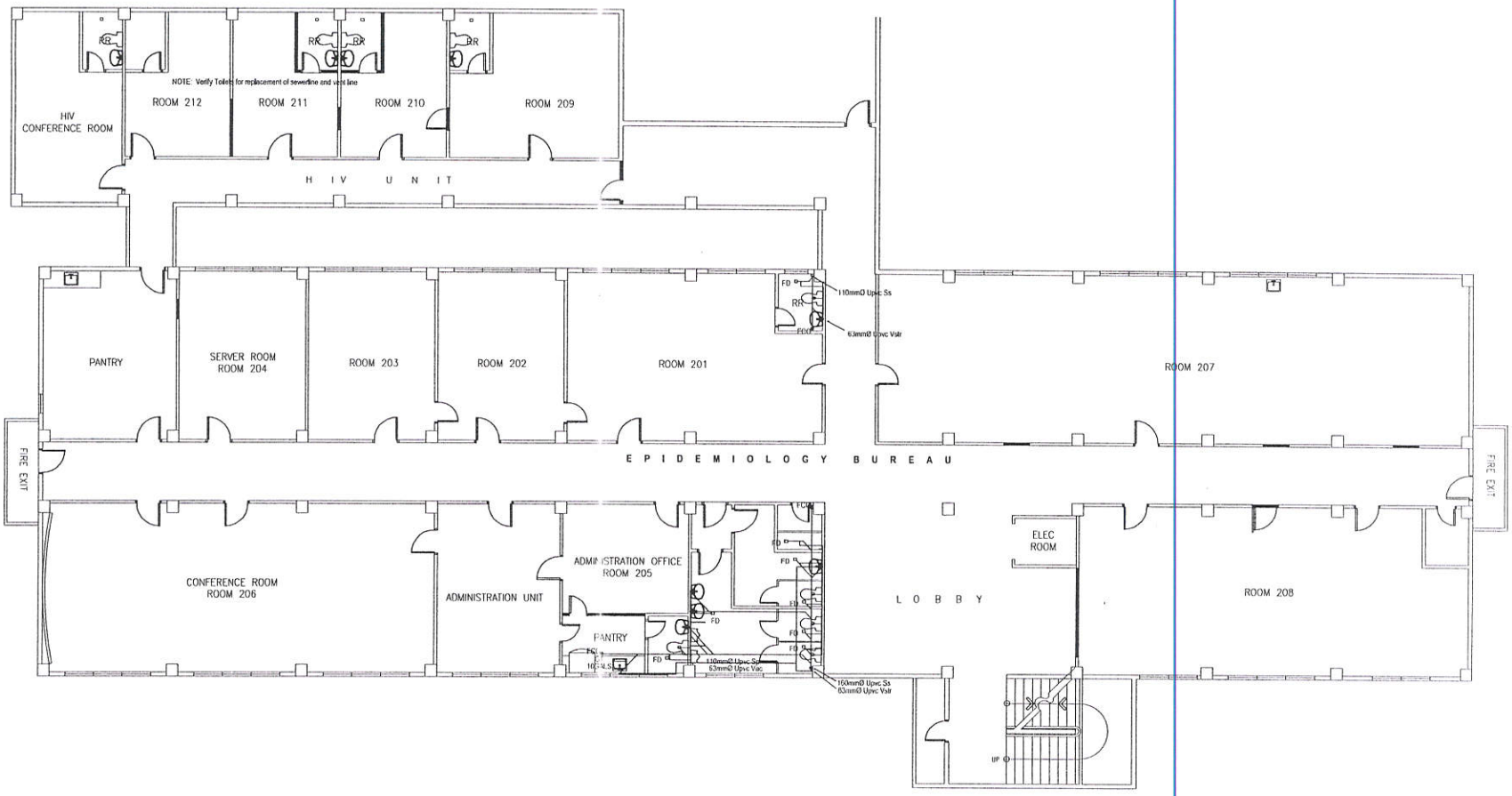
URL: http://www.doh.gov.ph



1 / P 3B SECOND FLOOR SEWERLINE AND VENT LAYOUT

SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No.: Validity: PTR No.: Date: Place: TIN:	RA 9266 SECTION 33	ENGINEER SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg No.: Validity: PTR No.: Date: Place: TIN:	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS SECOND FLOOR SEWERLINE AND VENT LAYOUT	CHECKED BY PRC Reg No.: Validity: PTR No.: Date: Place: TIN:	CONCURRED FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHFACILITIES ENHANCEMENT PROGRAM	SHEET NO P-3B DRAWN: DATE: REV. BY: REV. DATE:

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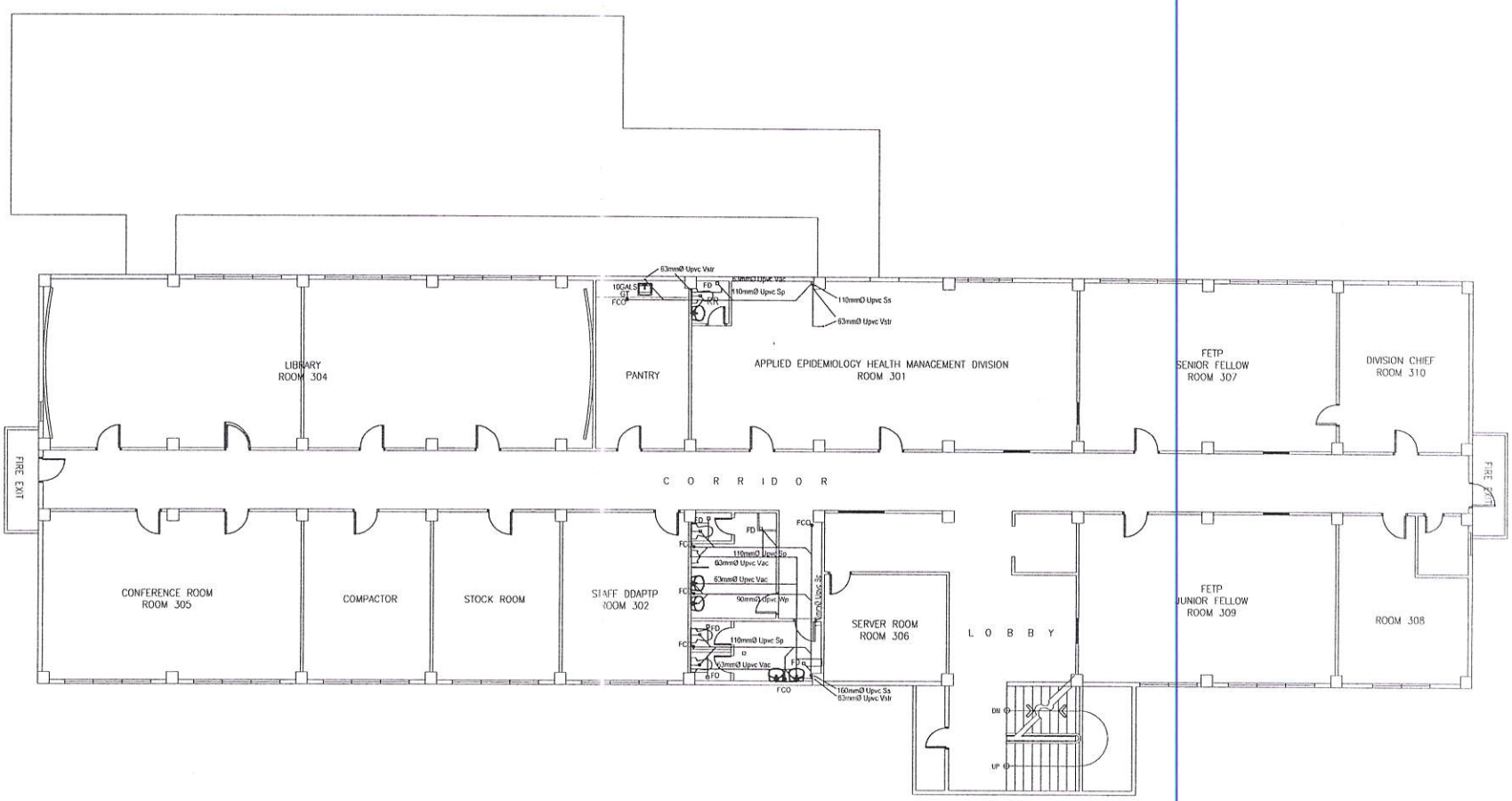
URL: http://www.doh.gov.ph



1 / P 3C THIRD FLOOR SEWERLINE AND VENT LAYOUT

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
		SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION: DOH COMPOUND STA. CRUZ MANILA	THIRD FLOOR SEWERLINE AND VENT LAYOUT		FERDITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	P-3C

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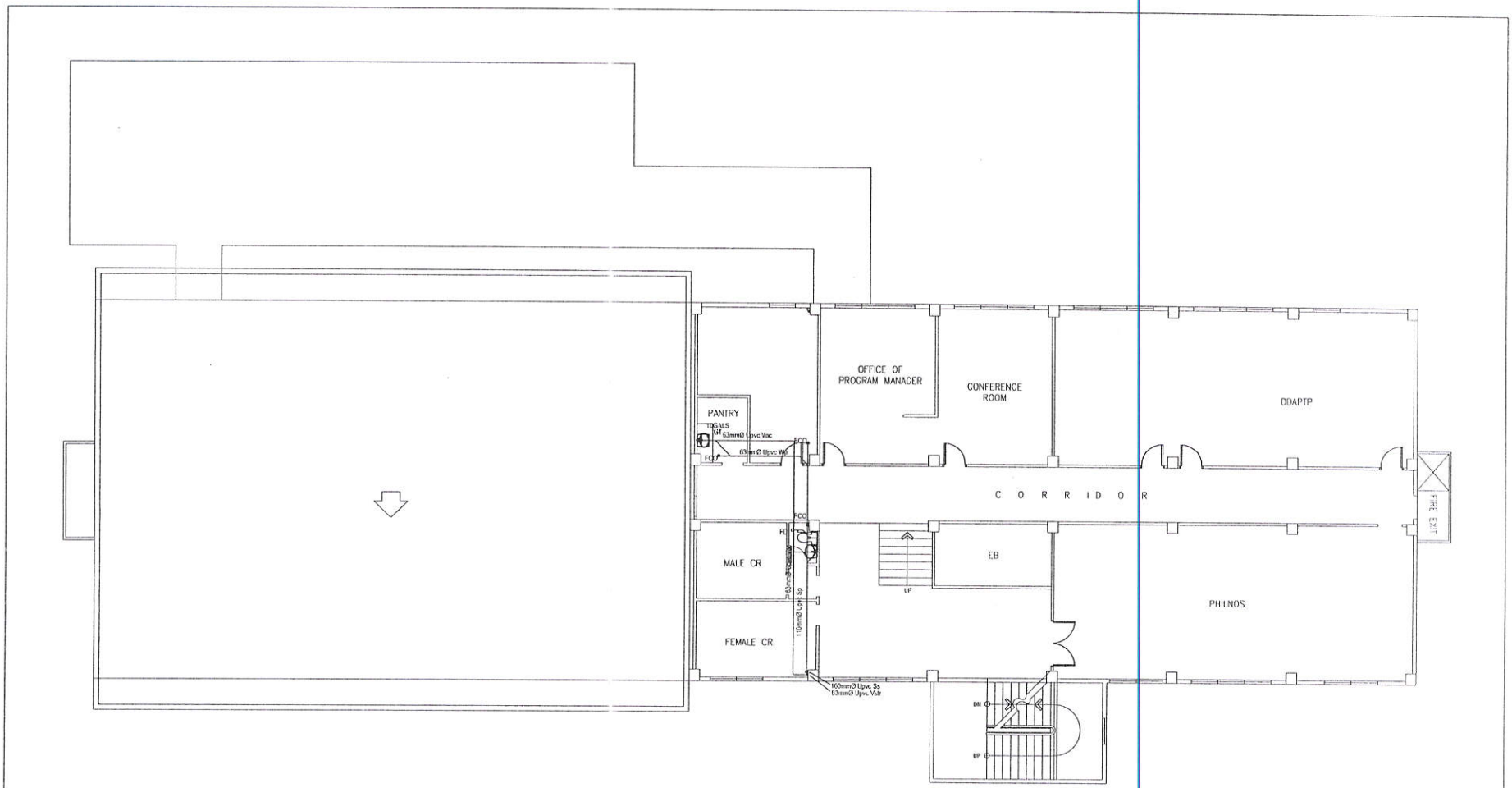

1 / P | 3D FOURTH FLOOR SEWERLINE AND VENT LAYOUT

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
PRC REG. No. / Validity		SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg. No. / Validity	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	FOURTH FLOOR SEWERLINE AND VENT LAYOUT	PRC Reg. No. / Validity	FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHFACILITIES ENHANCEMENT PROGRAM	P-3D DRAWN BY DATE REVISION REV. DATE
PTR No. / Date		PTR No. / Date			PTR No. / Date			
Place / TIN		Place / TIN			Place / TIN			

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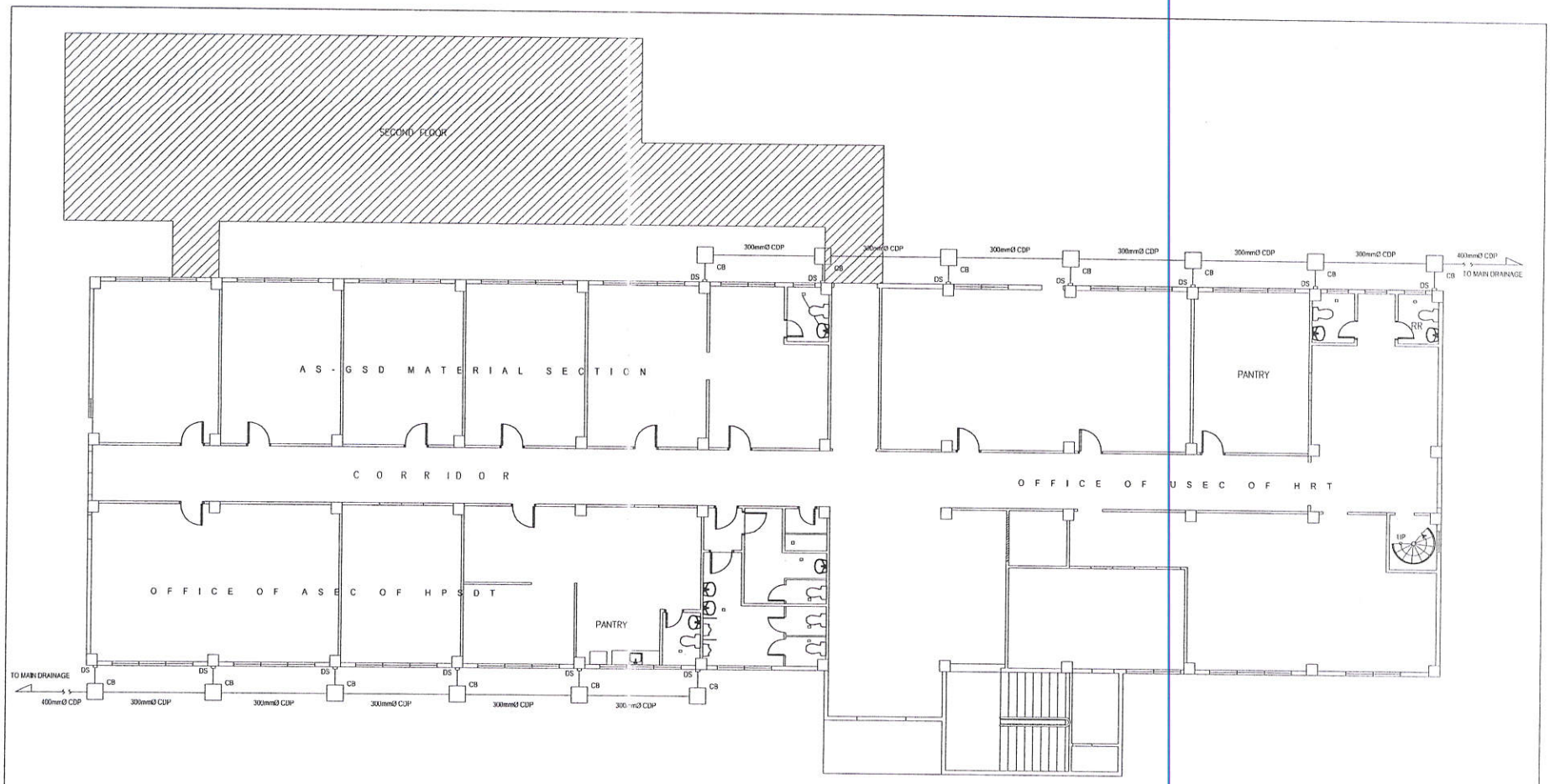
URL: http://www.doh.gov.ph



1 / P 4A GROUND FLOOR STORM DRAINAGE LAYOUT

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO
PRC REG. No. / Validity: / PTR No. / Date: / Place / TIN:		SEVERINO S. REYES III, CE, SE , MSCE ENGINEER IV; PRC Reg No. / Validity: / PTR No. / Date: / Place / TIN:	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10	STORM DRAINAGE LAYOUT	PRC Reg No. / Validity: / PTR No. / Date: / Place / TIN:	FERCHITO L. AVELINO, MD, MHA, PHSAE, DIRECTOR OF EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI, DIRECTOR IV, HEALTHFACILITIES ENHANCEMENT PROGRAM	P-4A

LOCATION: DOH COMPOUND STA. CRUZ MANILA

DRAWN BY / DATE / REV. BY / REV. DATE / REMARKS

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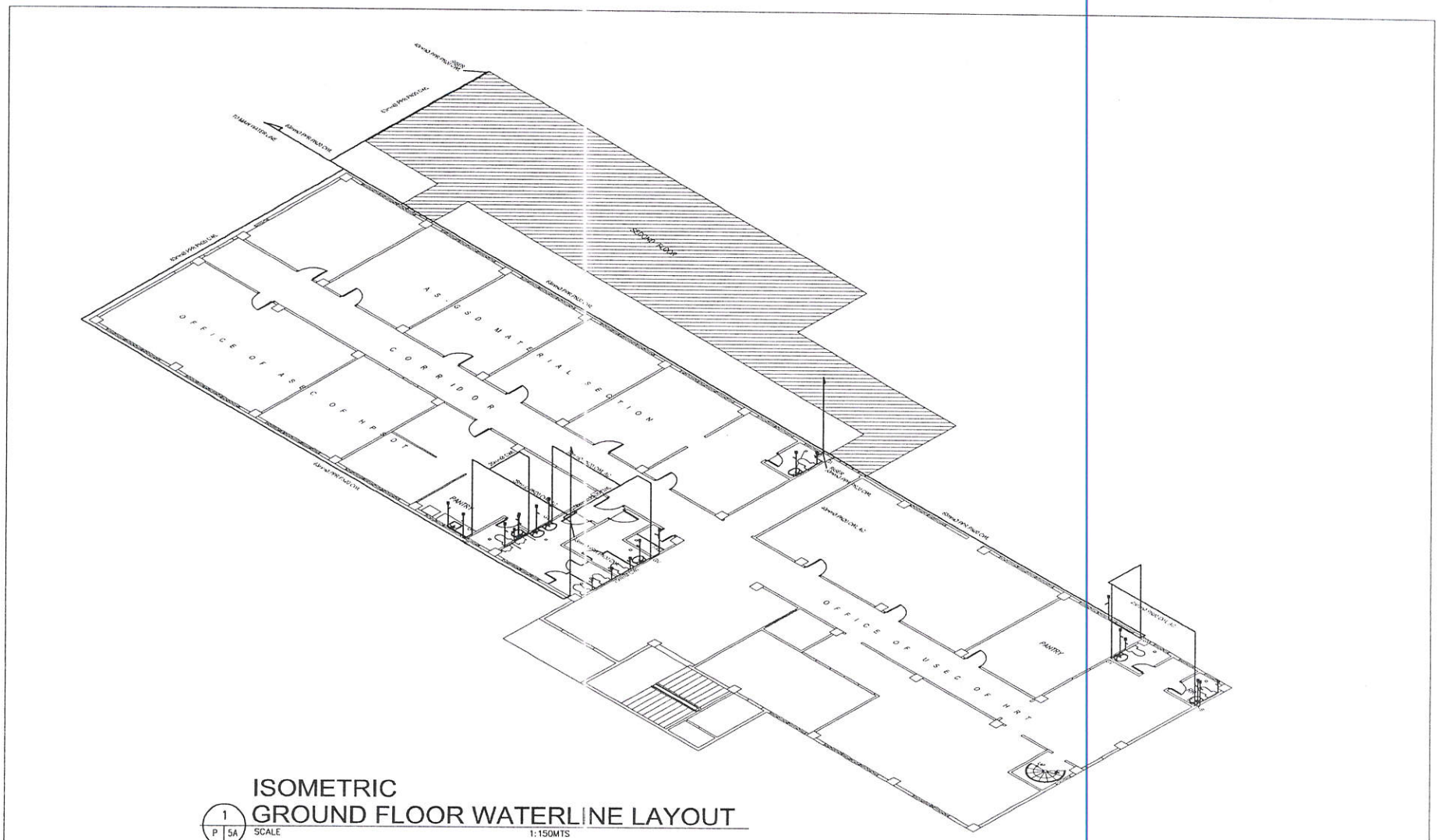
ROOF STORM DRAINAGE LAYOUT
SCALE
1:150M TS
HEALTH FACILITIES ENHANCEMENT PROGRAM
PROJECT
STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10
LOCATION
D. H. COMPOUND STA. CRUZ, MANILA
SHEET CONTENTS
ROOF
STORM DRAINAGE LAYOUT
ENGINEER
ARCHITECT OF RECORD
CHECKED BY
CONSURRED
APPROVED
LEONITA P. GORGOLON, MD, MHA, MCHM, CESO VI
SHEET NO
P-15



ISOMETRIC
GROUND FLOOR WATERLINE LAYOUT

1 / P 5A SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No. / Validity PTR No. / Date Place / TIN	RA 9266, SECTION 33 [illegible]	ENGINEER REYLENO S. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg. No. / Validity PTR No. / Date Place / TIN	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS GROUND FLOOR WATER LINE LAYOUT ISOMETRIC	CHECKED BY PRC Reg. No. / Validity PTR No. / Date Place / TIN	CONCURRED FERDINTO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO. P-5A DRAWING DATE REV. NO. REV. DATE

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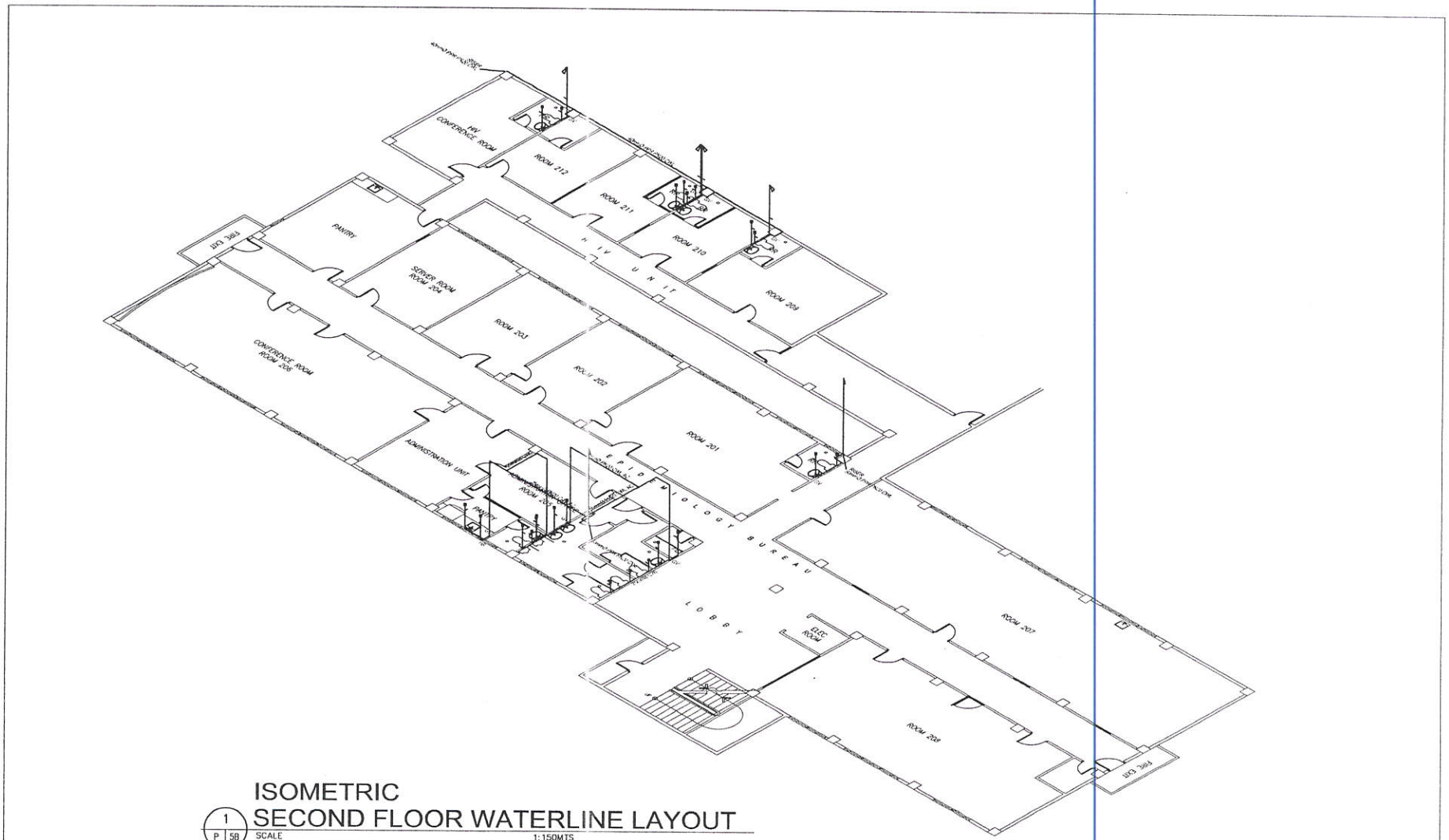

ISOMETRIC
SECOND FLOOR WATERLINE LAYOUT

1 / P 58 SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No. / Validity: PTR No. / Date: Place / TIN:	RA 9266 SECTION 33 PRC Reg No. / Validity: PTR No. / Date: Place / TIN:	ENGINEER EVERINO B. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg No. / Validity: PTR No. / Date: Place / TIN:	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS SECOND FLOOR WATER LINE LAYOUT ISOMETRIC	CHECKED BY PRC Reg No. / Validity: PTR No. / Date: Place / TIN:	CONCURRED FERCHITO L. AVELINO, MD, MHA, FPSMSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO. P-58 DRAWING DATE REV. BY REV. DATE / APPROVE

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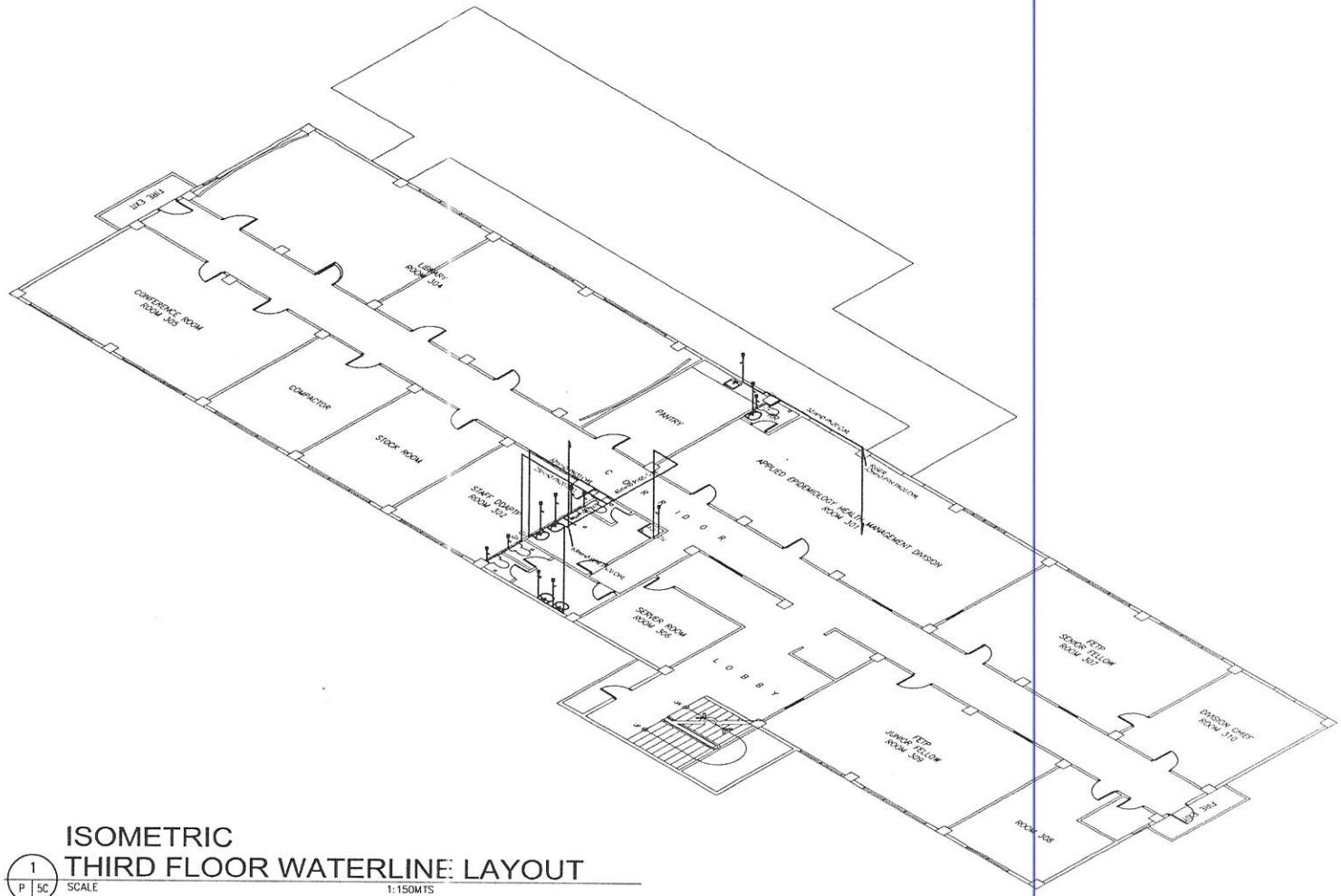
URL: http://www.doh.gov.ph



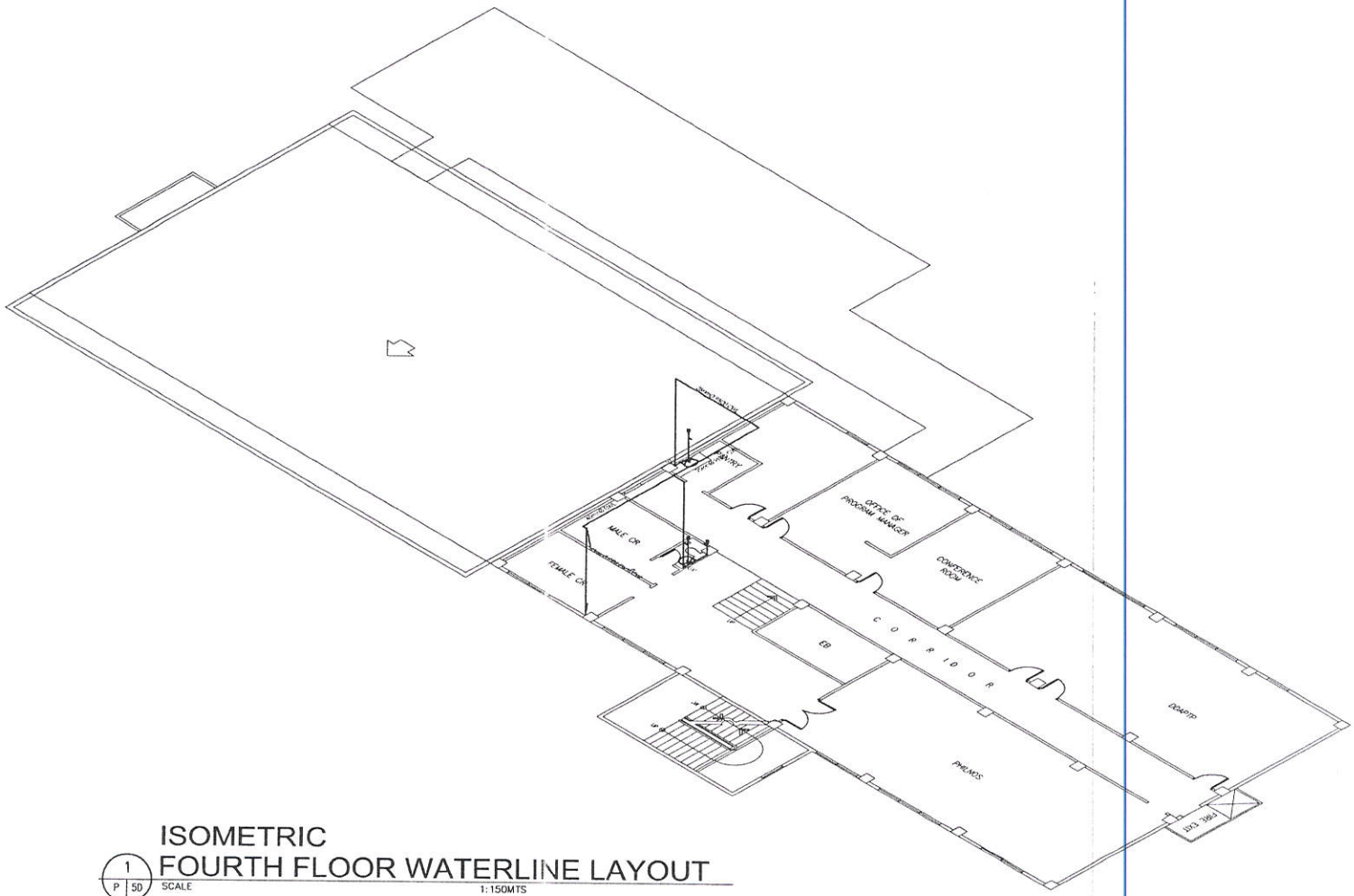
ISOMETRIC
THIRD FLOOR WATERLINE LAYOUT

1 / P 5C

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office,
Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
		REYNOLDO E. REYES III CE, SE , MSCE ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19	THIRD FLOOR WATER LINE LAYOUT ISOMETRIC		FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHCARE FACILITIES ENHANCEMENT PROGRAM	P-5C
PRC REG. No.	Validity	PRC Reg. No.	Validity		PRC Reg. No.			DRAWN BY
PTR No.	Date	PTR No.	Date	LOCATION	PTR No.			DATE
Place	TIN	Place	TIN	I. DOH COMPOUND STA. CRUZ MANILA	Place			REV. BY
								REV. DATE / REMARKS



ISOMETRIC
FOURTH FLOOR WATERLINE LAYOUT

1 / P 50 SCALE 1: 150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 6, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No. / Validity PTR No. / Date Place / TIN	RA 1266 SECTION 33	ENGINEER SEVERINO B. REMUS III, CE, SE , MSCE ENGINEER IV PRC Reg. No. / Validity PTR No. / Date Place / TIN	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS FOURTH FLOOR WATER LINE LAYOUT ISOMETRIC	CHECKED BY PRC Reg. No. / Validity PTR No. / Date Place / TIN	CONCURRED FERDINITO L. AVELINO, MD, MHA, PHSAE OIC-DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO P-5D DRAWN BY DATE FILE NO. FILE DATE / UPDATED

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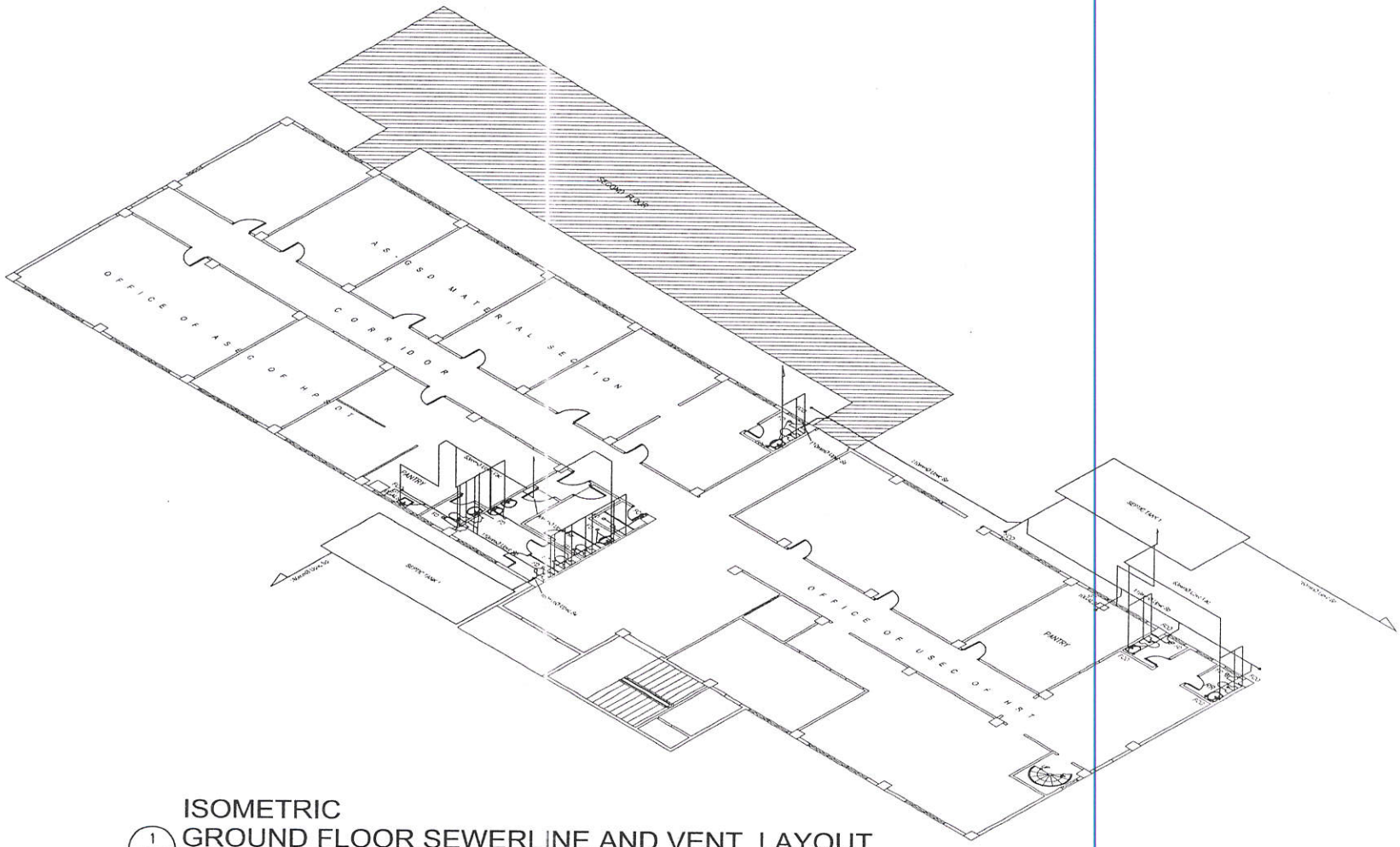

ISOMETRIC
GROUND FLOOR SEWERLINE AND VENT LAYOUT

1 / P-5E SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
PRC REG. No. / Validity		EVERARDO R. REYES III, CE, SE, MSCE / ENGINEER IV	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10	GROUND FLOOR SEWERLINE AND VENT LAYOUT ISOMETRIC	PRC Reg. No. / Validity	FERCHITO L. AVELINO, MD, MHA, FPHSAE	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI	P-5E
PTR No. / Date		PRC Reg. No. / Validity	LOCATION		PTR No. / Date	EPIDEMIOLOGY BUREAU	DIRECTOR IV	DRAWN BY:
Place / TIN		PTR No. / Date	DOH COMPOUND STA. CRUZ MANILA		Place / TIN		HEALTH FACILITIES ENHANCEMENT PROGRAM	DATE:
		Place / TIN						REV. DATE: (DRAWING)

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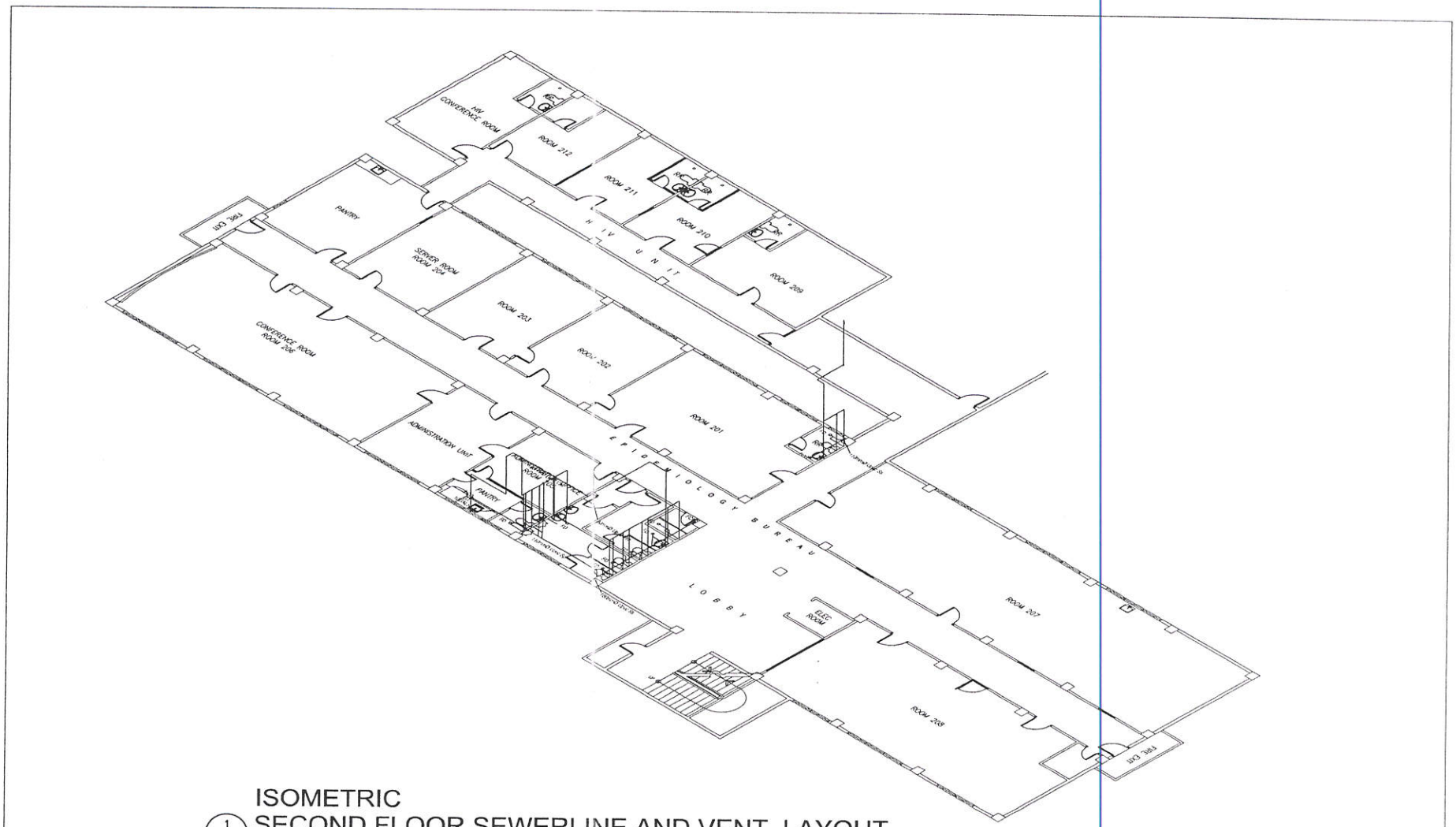
URL: http://www.doh.gov.ph

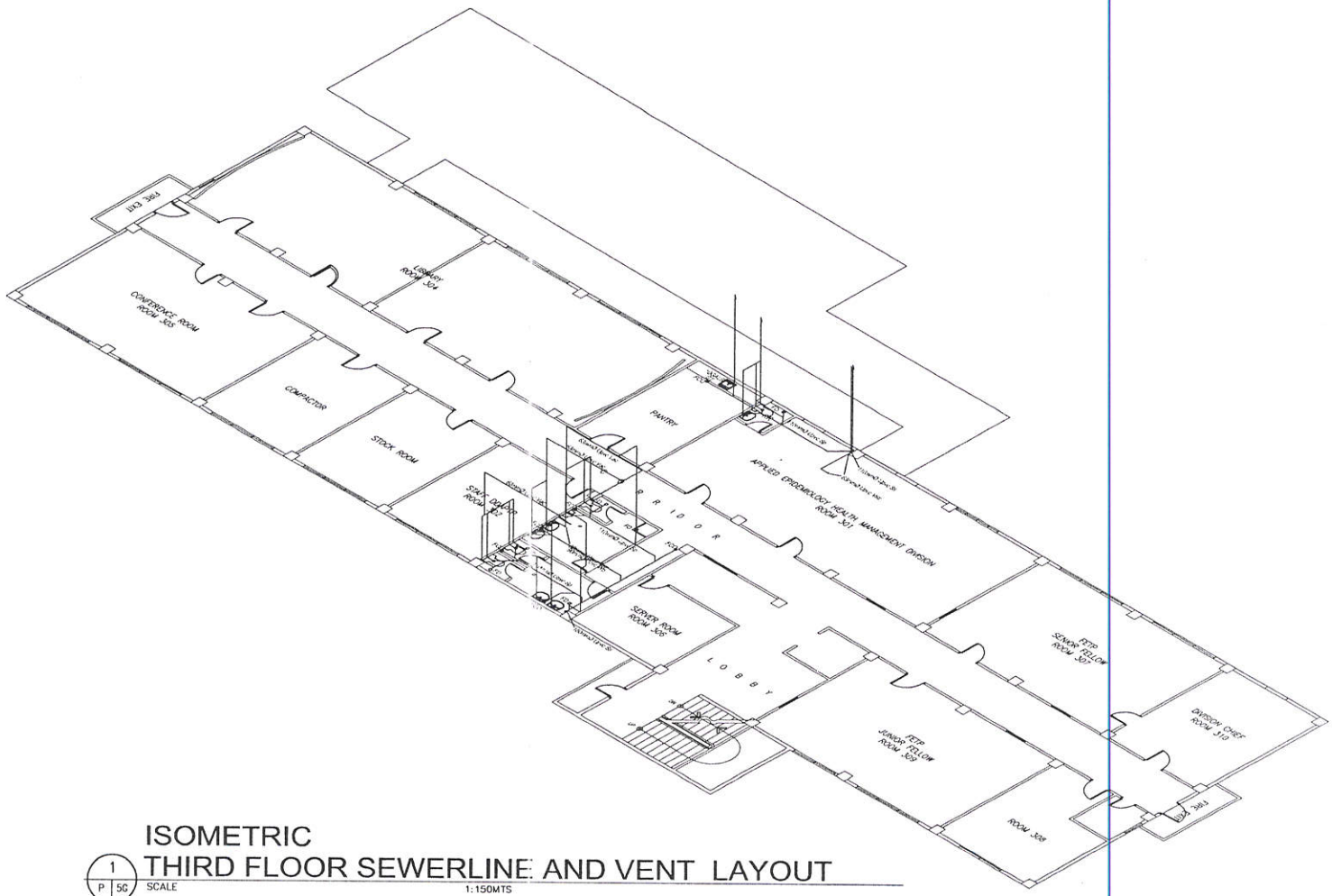


ISOMETRIC
SECOND FLOOR SEWERLINE AND VENT LAYOUT

1 / P 4F SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No. / Validity / PTR No. / Date / Place / Tin	RA 9266 SECTION 33	ENGINEER SEVERINO G. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg. No. / Validity / PTR No. / Date / Place / Tin	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS SECOND FLOOR SEWERLINE AND VENT LAYOUT ISOMETRIC	CHECKED BY PRC Reg. No. / Validity / PTR No. / Date / Place / Tin	CONCURRED FERCHITO L. AVELINO, MD, MHA, PHSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTHFACILITIES ENHANCEMENT PROGRAM	SHEET NO P-5F DRAWN BY: DATE: REV BY: REV DATE: 12/4/2018

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph



ISOMETRIC
THIRD FLOOR SEWERLINE AND VENT LAYOUT

1 / P 5G

SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD		RA 9266 SECTION 33
PRC REG. No.	Validity	
PTR No.	Date	
Place	TIN	

ENGINEER		PROJECT
SEVERINO E. REYES III, CE, SE , MSCE ENGINEER IV		STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19
PRC Reg. No.	Validity	LOCATION
PTR No.	Date	DOH COMPOUND STA. CRUZ MANILA
Place	TIN	

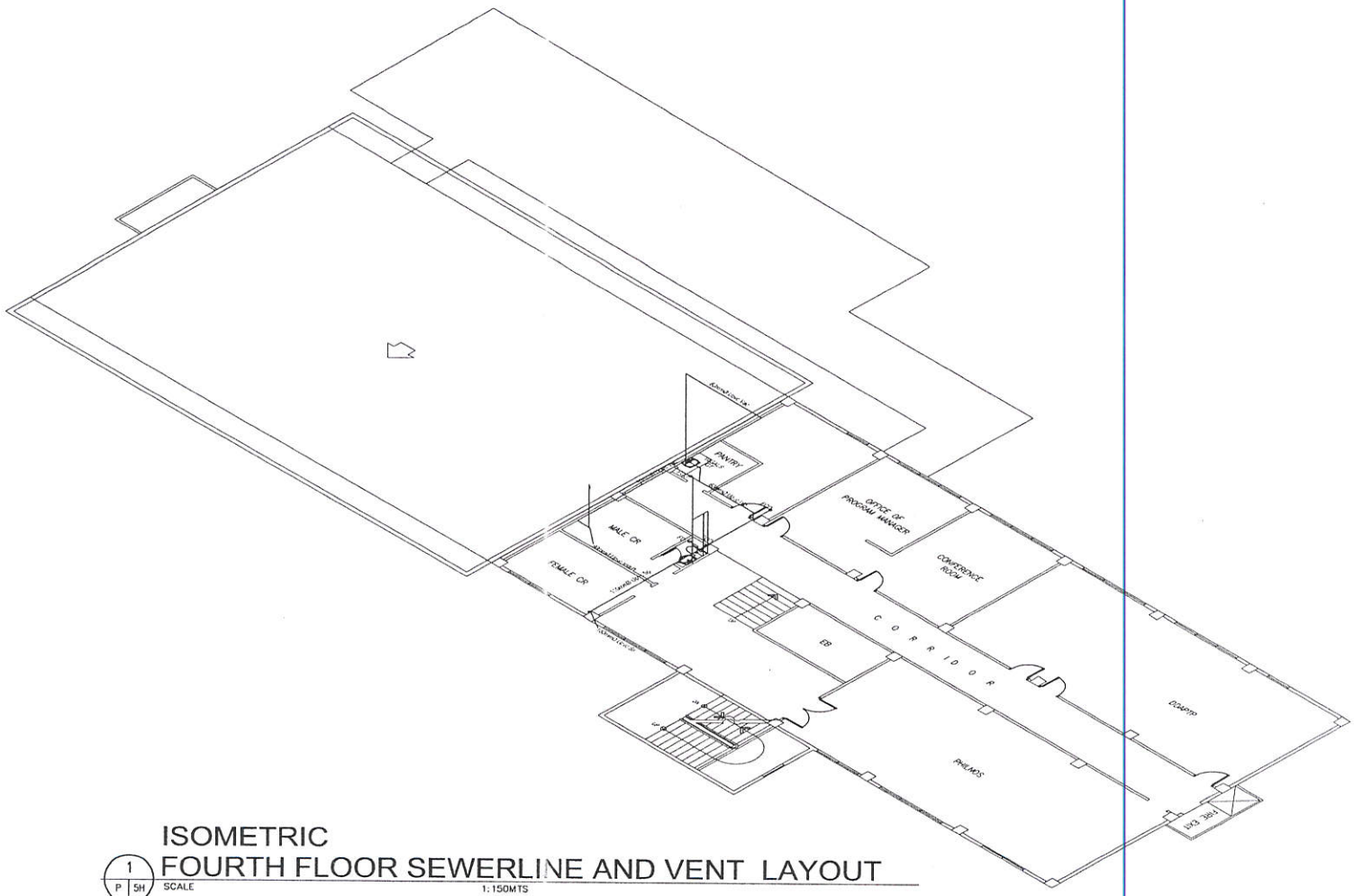
SHEET CONTENTS	CHECKED BY
THIRD FLOOR SEWERLINE AND VENT LAYOUT ISOMETRIC	
PRC Reg. No.	Validity
PTR No.	Date
Place	TIN

CONCURRED
FERCHITO L. AVELINO, MD, MHA, PHSAE
ASSISTANT DIRECTOR
DIRECTOR, BUREAU

APPROVED
LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI
DIRECTOR IV
HEALTH FACILITIES ENHANCEMENT PROGRAM

SHEET NO. P-5G
DRAWN BY
DATE
REV. BY
REV. DATE

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph

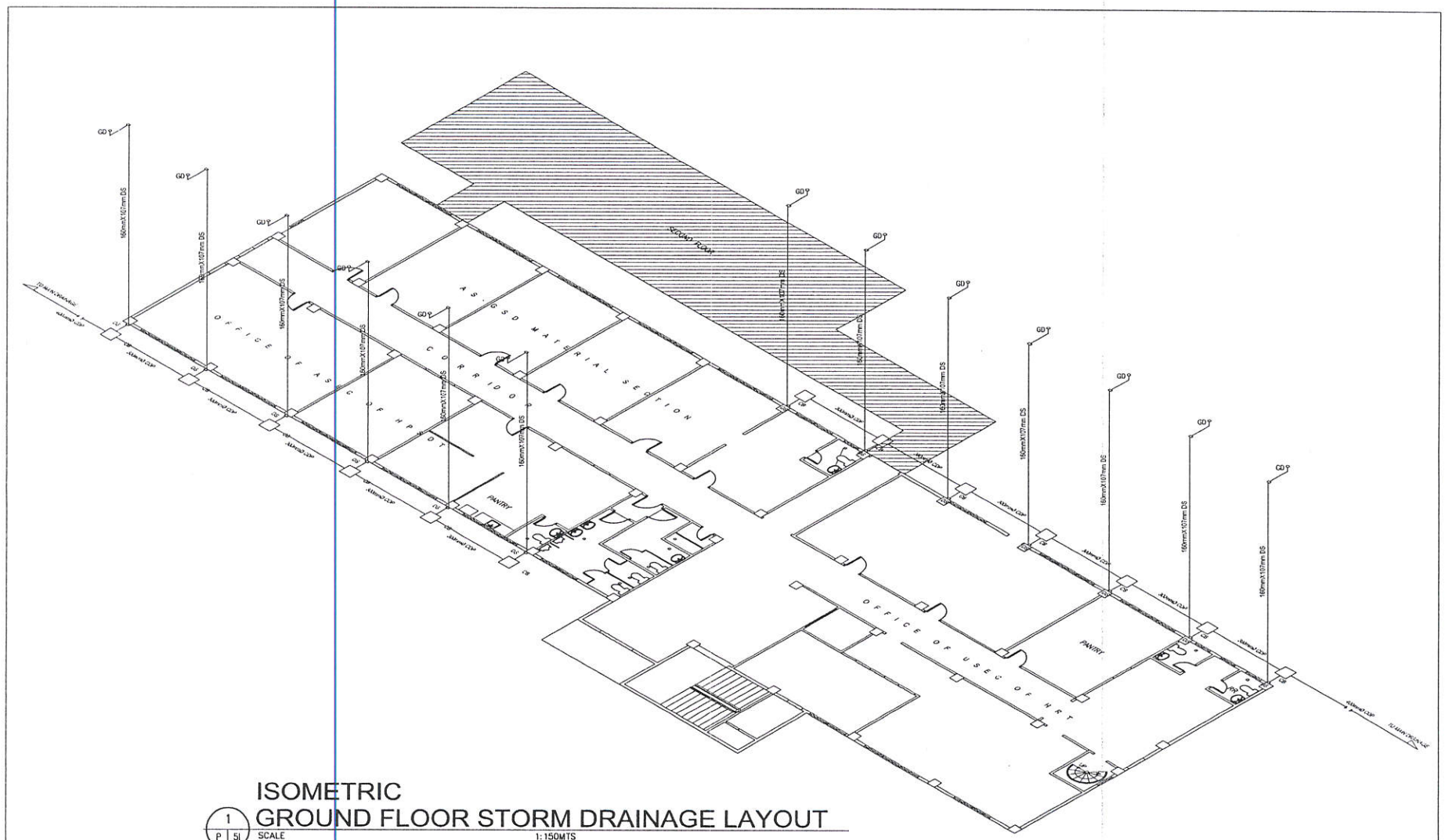


ISOMETRIC
FOURTH FLOOR SEWERLINE AND VENT LAYOUT

1 / P 5H SCALE 1:150MTS

Republic of the Philippines DEPARTMENT OF HEALTH HEALTH FACILITIES ENHANCEMENT PROGRAM Bldg. 6, DOH Central Office Rizal Avenue, Sta. Cruz, Manila City	ARCHITECT OF RECORD PRC REG. No. / Validity PTR No. / Date Place / TIN	RA 9266 SECTION 33	ENGINEER SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg. No. / Validity PTR No. / Date Place / TIN	PROJECT STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 10 LOCATION DOH COMPOUND STA. CRUZ MANILA	SHEET CONTENTS FOURTH FLOOR SEWERLINE AND VENT LAYOUT ISOMETRIC	CHECKED BY PRC Reg. No. / Validity PTR No. / Date Place / TIN	CONCURRED FERCHITO L. AVELINO, MD, MHA, FPSAE DIRECTOR IV EPIDEMIOLOGY BUREAU	APPROVED LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	SHEET NO. P-5H DRAWN BY DATE REV. BY REV. DATE

Building 6, San Lazaro Compound, Rizal Avenue, Sta. Cruz, 1003 Manila, • Trunk Line 651-7800 Loc. 1624 to 1627; Fax 740-6830
URL: http://www.doh.gov.ph



ISOMETRIC
GROUND FLOOR STORM DRAINAGE LAYOUT

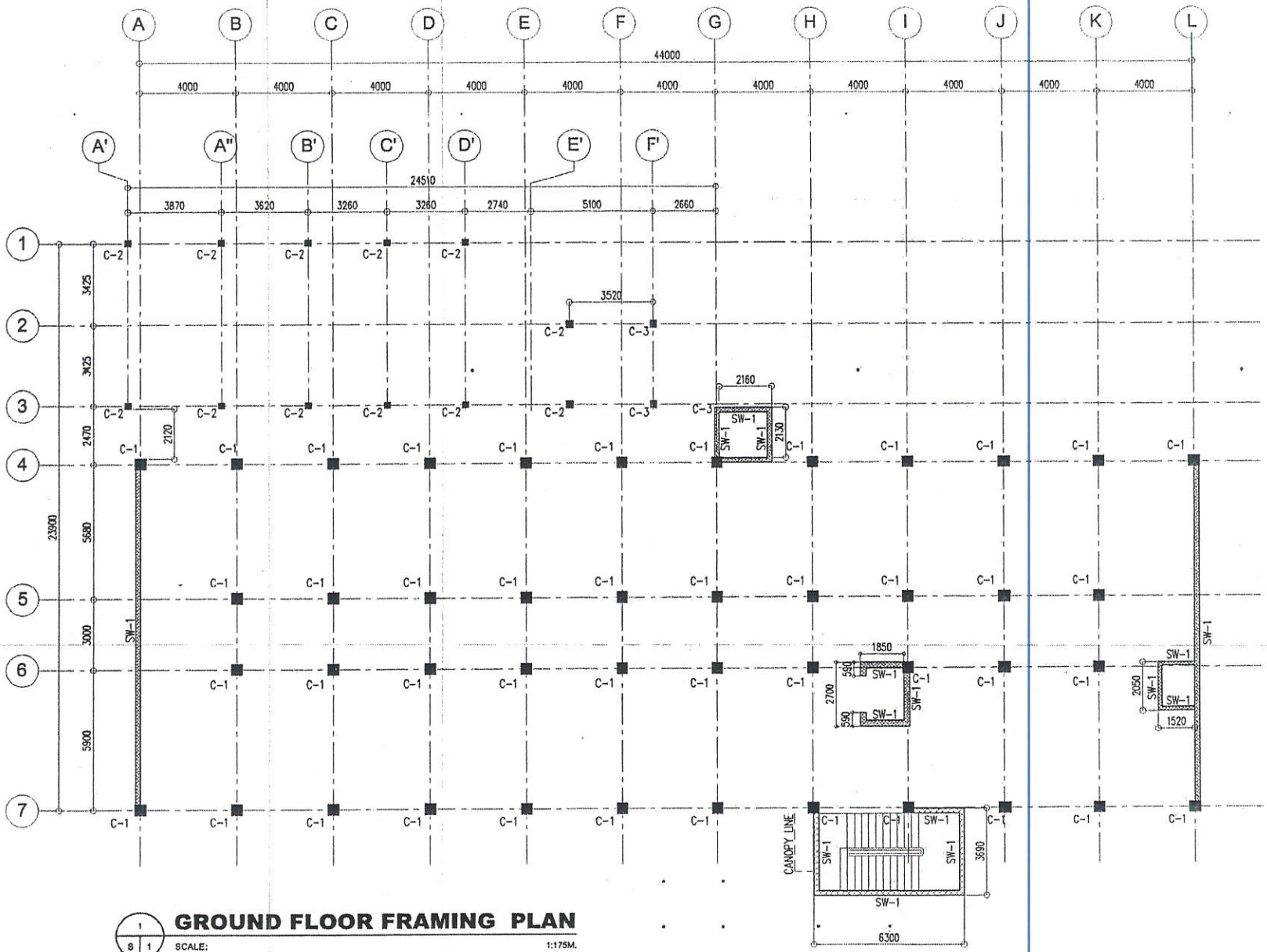
1 / P 5I SCALE 1:150MTS

Republic of the Philippines
DEPARTMENT OF HEALTH
HEALTH FACILITIES ENHANCEMENT PROGRAM
Bldg. 4, DOH Central Office, Rizal Avenue, Sta. Cruz, Manila City

ARCHITECT OF RECORD	RA 9266 SECTION 33	ENGINEER	PROJECT	SHEET CONTENTS	CHECKED BY	CONCURRED	APPROVED	SHEET NO.
PRC REG. No. : Validity : PTR No. : Date : Place : TIN :	Licensed and practicing architect and other lawful documents only signed and sealed plans or construction drawings shall be valid for the purpose for which they are prepared. Violation of this provision shall be a cause for the suspension or revocation of the professional license of the architect without prejudice to the filing of criminal, civil or administrative cases against the violator.	SEVERINO B. REYES III, CE, SE , MSCE ENGINEER IV PRC Reg. No. : Validity : PTR No. : Date : Place : TIN :	STRUCTURAL RETROFITTING AND REPAIR OF BUILDING 19 LOCATION DOH COMPOUND STA. CRUZ MANILA	STORM DRAINAGE LAYOUT ISOMETRIC	PRC Reg. No. : Validity : PTR No. : Date : Place : TIN :	FERCHITO L. AVELINO, MD, MHA, PHSAE DEC-DIRECTOR IV EPIDEMIOLOGY BUREAU	LEONITA P. GORGOLON,MD, MHA, MCHM, CEO VI DIRECTOR IV HEALTH FACILITIES ENHANCEMENT PROGRAM	P-5I DRAWN BY: DATE: REV. BY: REV. DATE: 10/01/2019

ANNEX B

Structural Investigation of DOH Building 19

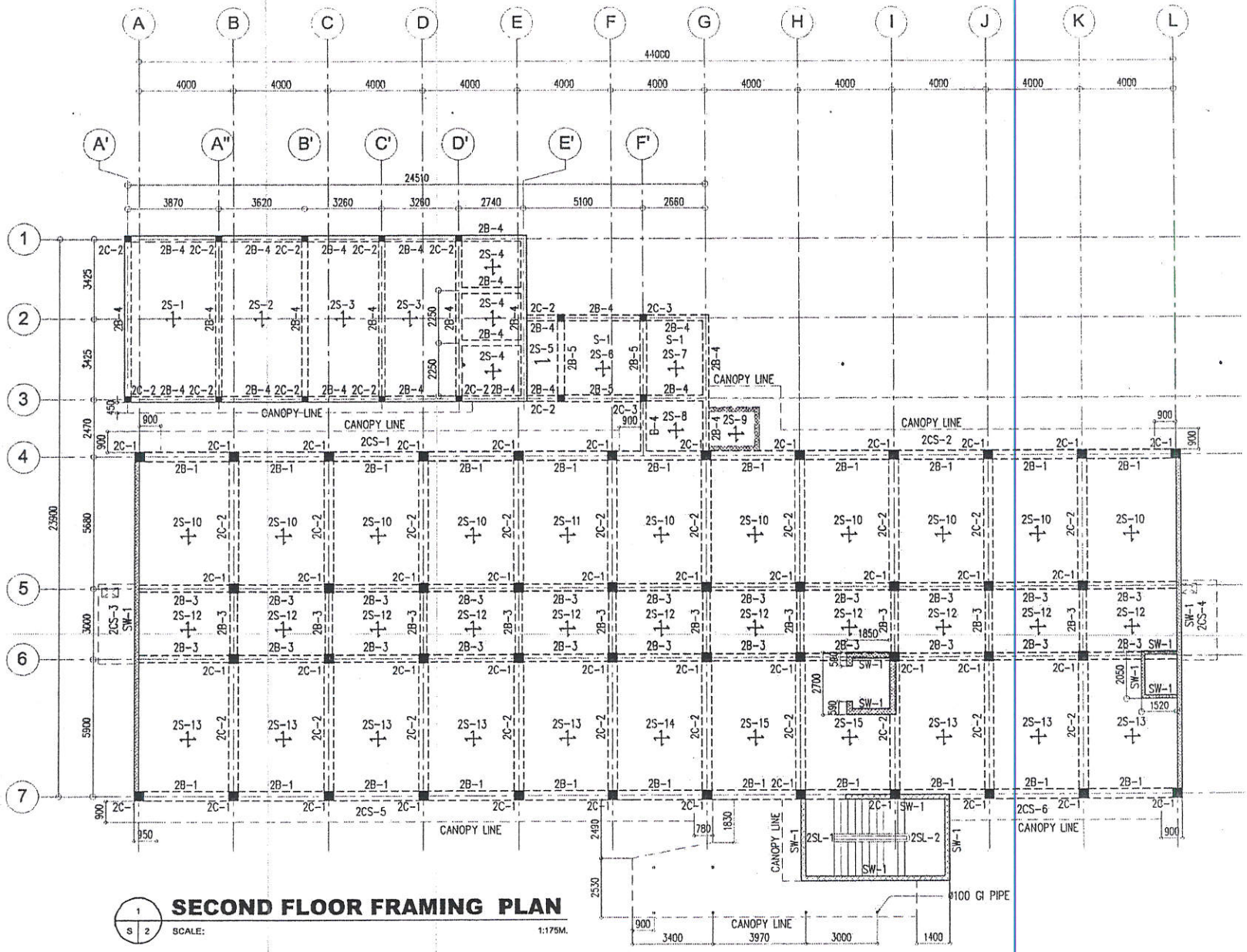


GROUND FLOOR FRAMING PLAN

SCALE: 1:175M.

APR 17 2017

GIBMA Engineering Services Design - Construction - Project Management - Surveys 93 Kalikasan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611 Tel. No.: 682 7114 Fax. No.: 682 8467 Cellphone No.: 0920 9226441 URL: www.gibma.com E-mail: gibma2003@yahoo.com	CIVIL / STRUCTURAL ENGINEER: GILBERTO M. BUTAY REG. NO.: 055251 PTR NO.: 2321888 DATE: AUG. 1, 1980 ISSUED ON: JAN. 4, 2017 TIN: 106-459-911 ISSUED AT: PASIG CITY	PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19 LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	OWNER: DEPARTMENT OF HEALTH ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	DATE:	REVISION:	DESIGNED BY: JBNN CADD BY: BJC DATE: CHECKED BY: GBM APPROVED BY: DATE:	SHEET CONTENTS: AS-BUILT GROUND FLOOR FRAMING PLAN	DRAWING NO.: S - 1 SHEET NO.: 1 / 20			



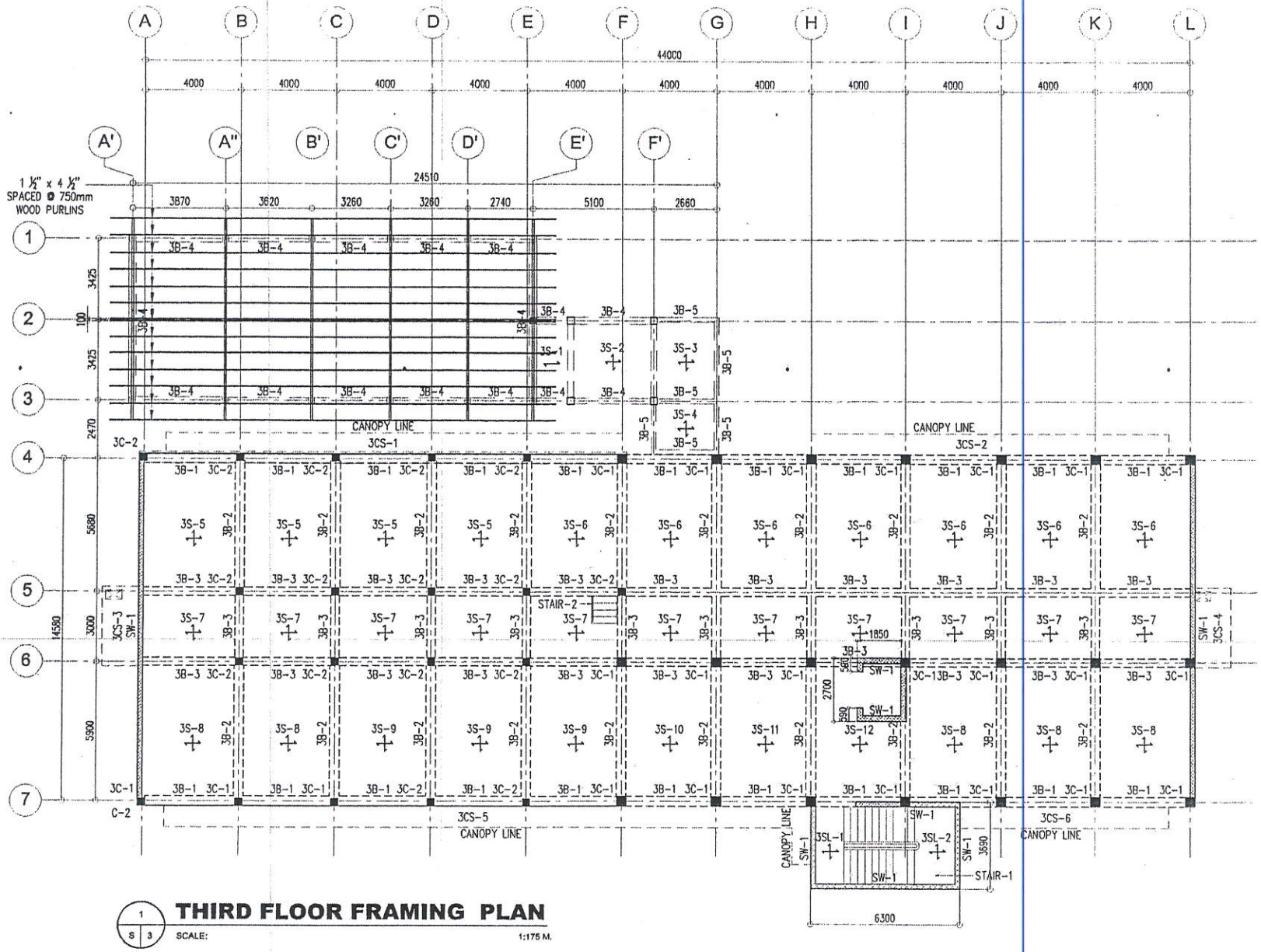
SECOND FLOOR FRAMING PLAN

SCALE: 1:175M.

APR 17 2017

10/10/2016

GIBMA Engineering Services Design - Construction - Project Management - Surveys 93 Kalikasan Street Kerangalan Village Phase 2A, Dela Paz, Pasig City 1611 Tel. No.: 682 7114 Fax. No.: 682 8467 Cellphone No.: 0920 9226441 URL: www.gibma.com E-mail: gibma2003@yahoo.com	CIVIL / STRUCTURAL ENGINEER: GILBERT B. MATIBUTAY REG. NO.: 885251 PTR NO.: 7321699 DATE: AUG. 1, 1989 ISSUED ON: JAN. 4, 2017 TIN: 109-459-911 ISSUED AT: PASIG CITY	PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19 LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	OWNER: DEPARTMENT OF HEALTH ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	DATE:	REVISION:	DESIGNED BY: JBMN CADD BY: BJC DATE: CHECKED BY: GBM APPROVED BY: DATE:	SHEET CONTENTS: AS-BUILT SECOND FLOOR FRAMING PLAN	DRAWING NO.: S - 2 SHEET NO.: 2 / 20

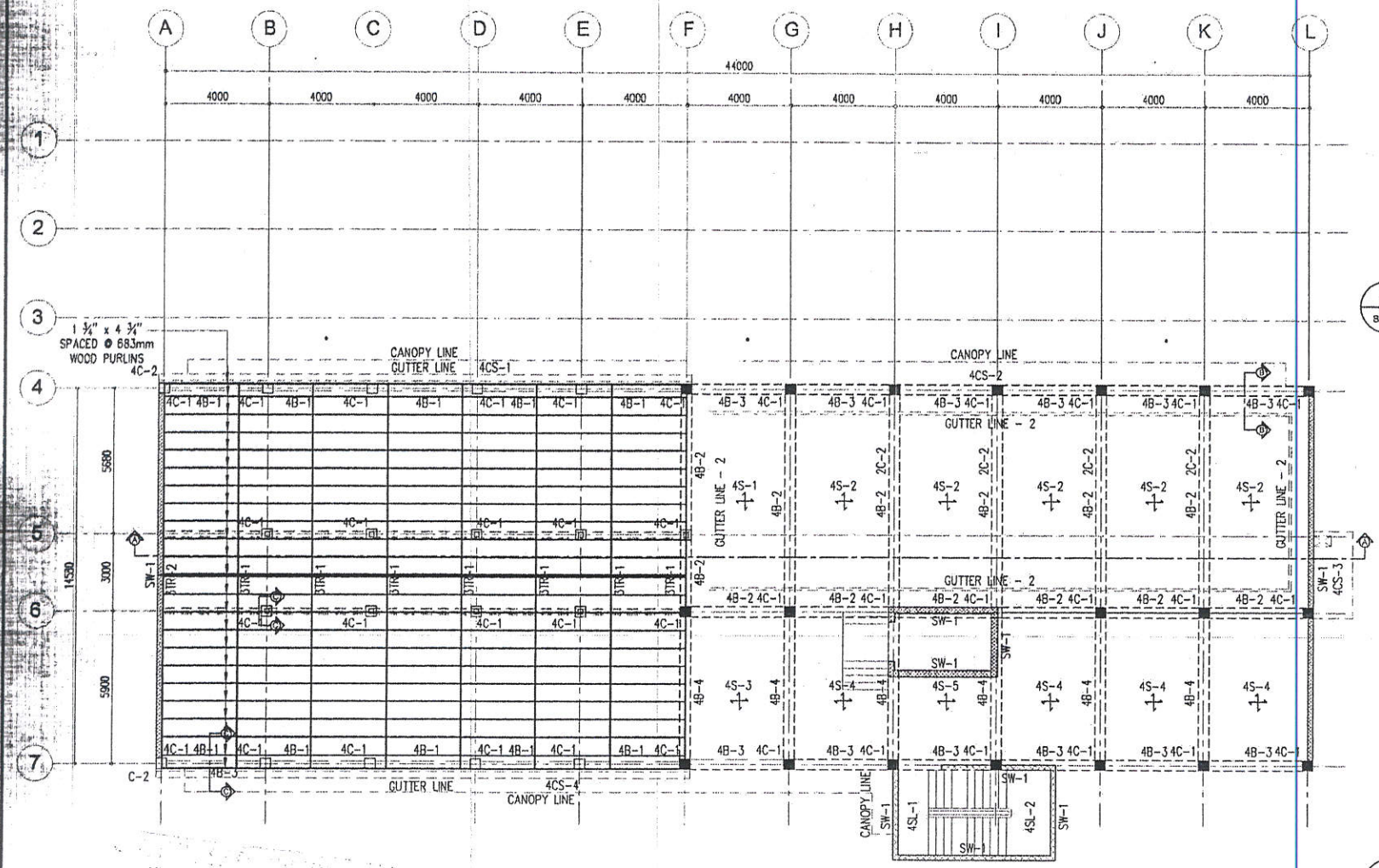


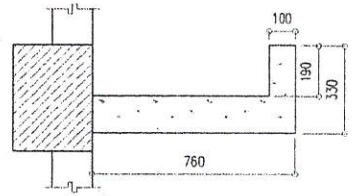
THIRD FLOOR FRAMING PLAN

SCALE: 1:175 M.

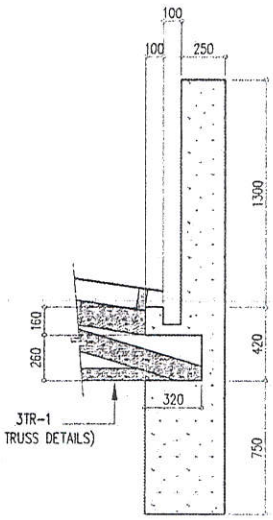
APR 17 2017

GIBMA Engineering Services Design • Construction • Project Management • Surveys 93 Kalikasan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611 Tel. No.: 682 7114 Fax. No.: 682 8487 Cellphone No.: 0920 9226441 URL: www.gibma.com E-mail: gibma2003@yahoo.com	CIVIL / STRUCTURAL ENGINEER: GILBERT S. ADOBUTAY REG. NO.: 085251 PTR NO.: 2321899 DATE: AUG. 1, 1989 ISSUED ON: JAN. 4, 2017 TIN: 106-459-911 ISSUED AT: PASIG CITY	PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19 LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	OWNER: DEPARTMENT OF HEALTH ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	DATE:	REVISION:	DESIGNED BY: JBBN CADD BY: BJC DATE: CHECKED BY: GBM APPROVED BY: DATE:	SHEET CONTENTS: AS-BUILT THIRD FLOOR FRAMING PLAN	DRAWING NO.: S - 3 SHEET NO.: 3 / 20





CONCRETE GUTTER
SECTION THRU B' - B'
2 / S 4
SCALE: 1:20M.



CONCRETE GUTTER
SECTION THRU C' - C'
3 / S 4
SCALE: 1:30M.

FOURTH FLOOR / LOWER ROOF FRAMING PLAN
1 / S 4
SCALE: 1:175 M.

Date: 10/16/2016

APR 17 2017

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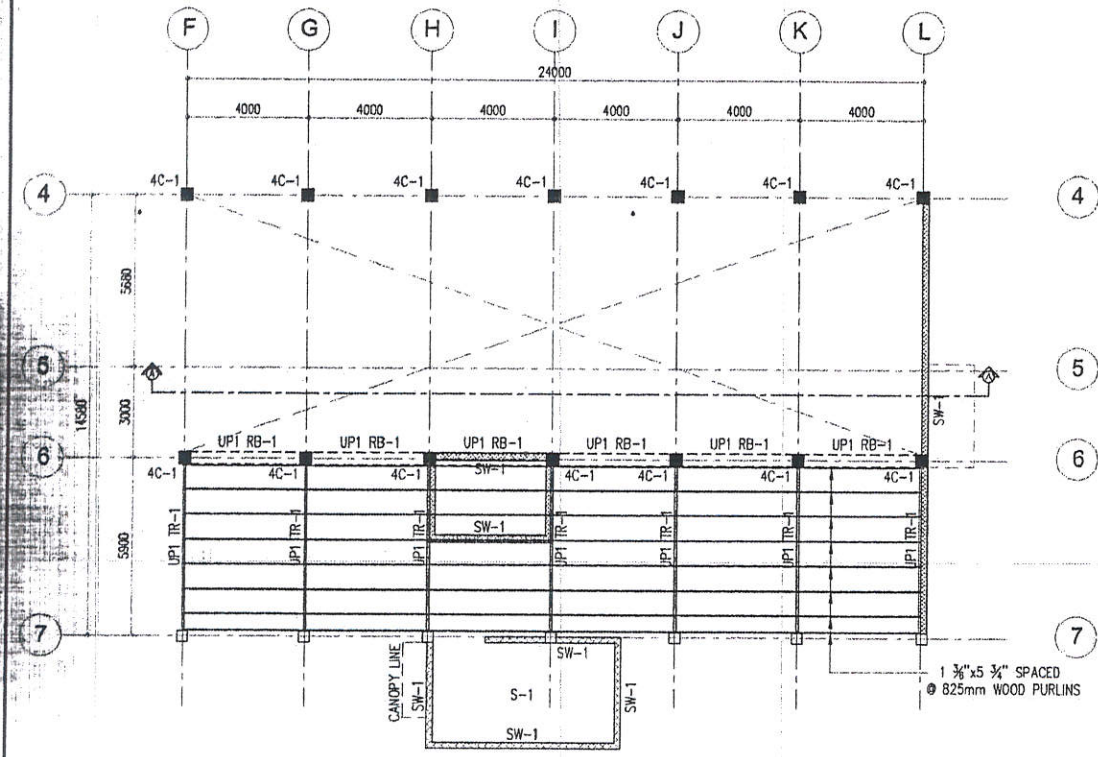
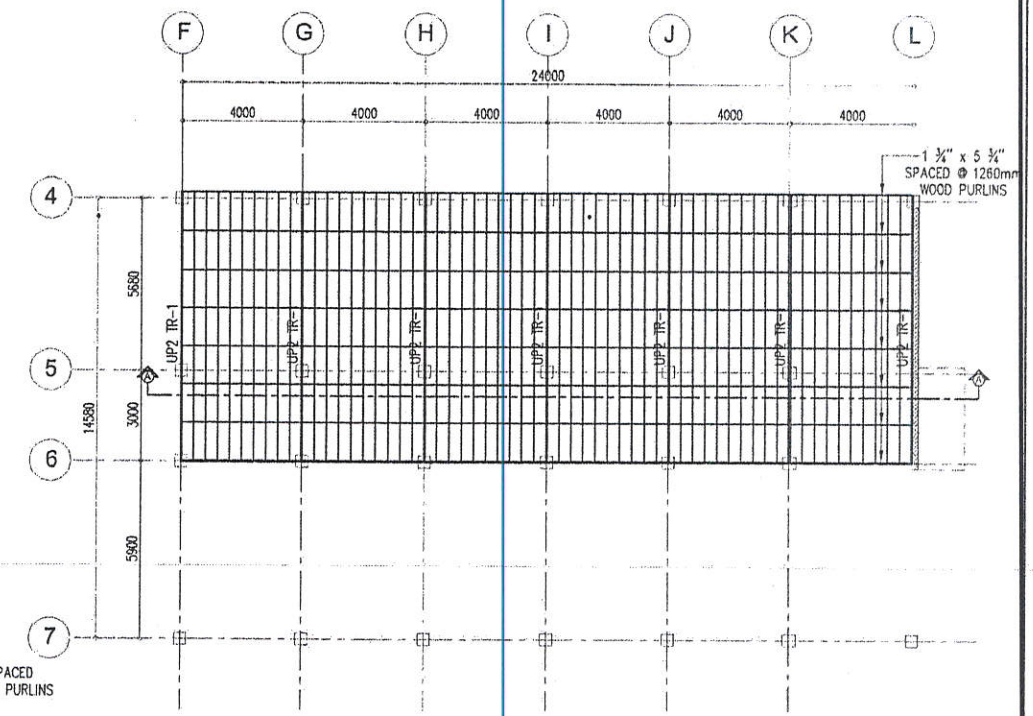


ELEV. +14855.00

UPPER ROOF-1 FRAMING PLAN

SCALE: 1:175 M.



ELEV. +17250.00

UPPER ROOF-2 FRAMING PLAN

SCALE: 1:175 M.

Date: 10/16/2019

APR 17 2017

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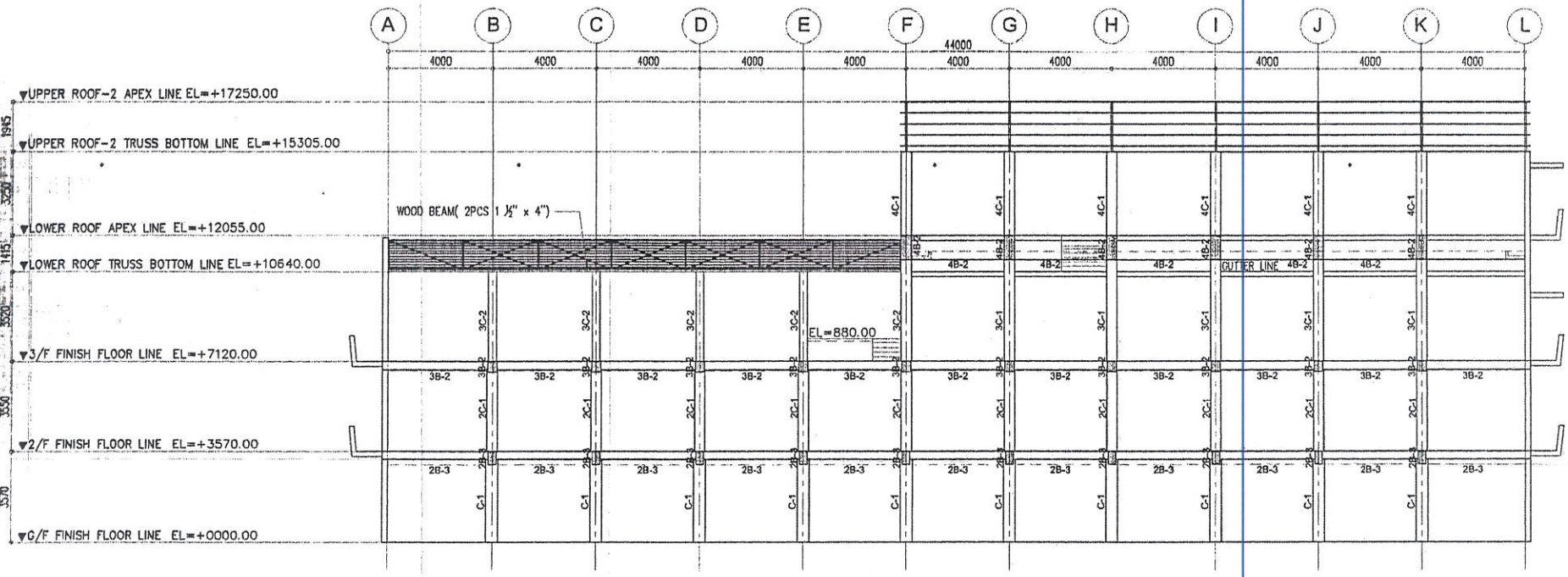
93 Kalikasan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611
Tel. No.: 662 7114 Fax. No.: 662 6467 Cellphone No.: 0920 9226441
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT S. AMBUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY: JBNH	SHEET CONTENTS: AS-BUILT FOURTH FLOOR FRAMING PLAN FOURTH FLOOR ROOF FRAMING PLAN	DRAWING NO.: S - 5
REG. NO.: 055251	PTR NO.: 2321680					CADD BY: BJC		
DATE: APRIL 1 1980	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:		SHEET NO.: 5 / 20
TIN: 106-459-911	ISSUED AT: PASIG CITY					CHECKED BY: GBM		
						APPROVED BY:		
						DATE:		



Date: 10/16/2019

1 / S 6

SECTION THRU A' - A'

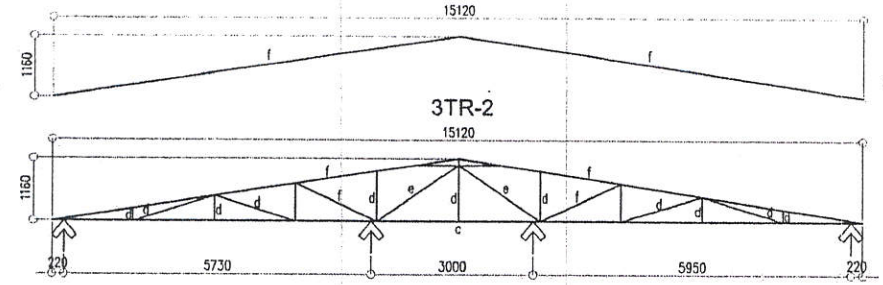
SCALE: 1:175M.

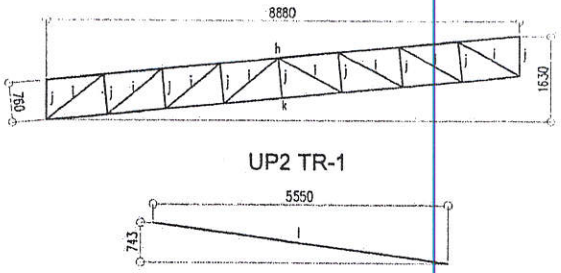
APR 17 2017

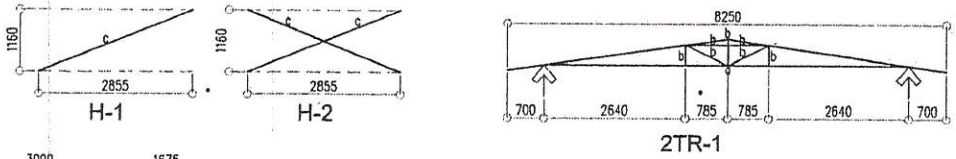
GIBMA Engineering Services
Design - Construction - Project Management - Surveys
03 Kalikasan Street Kerangalan Village Phase 2A, Dela Paz, Pasig City 1611
Tel. No.: 662 7114 Fax. No.: 662 8407 Cellphone No.: 0920 9226441
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT B. MANGUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	JDNN	SHEET CONTENTS: AS-BUILT SECTION THRU B' - B'	DRAWING NO.: S - 6
REG. NO.: 086251	PTR NO.: 2321089					CADD BY:	BJC		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 6 / 20
TIN: 106-458-911	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
						APPROVED BY:			
						DATE:			

SCHEDULE OF TRUSS MEMBERS
a = 1 ½" x 5½"
b = 1" x 5 ¾"
c = 1 ¾" x 4 ¾"
d = 1 ¾" x 2 ¾"
e = 1 ¾" x 3 ¾"
f = 1 ¾" x 5 ½"
g = 1 ¾" x 3 ¼"
h = 2 ½" x 8"
i = 2 ¾" x 3 ¾"
j = 2" x 5"
k = 2" x 6"
l = 3 ¾" x 11"

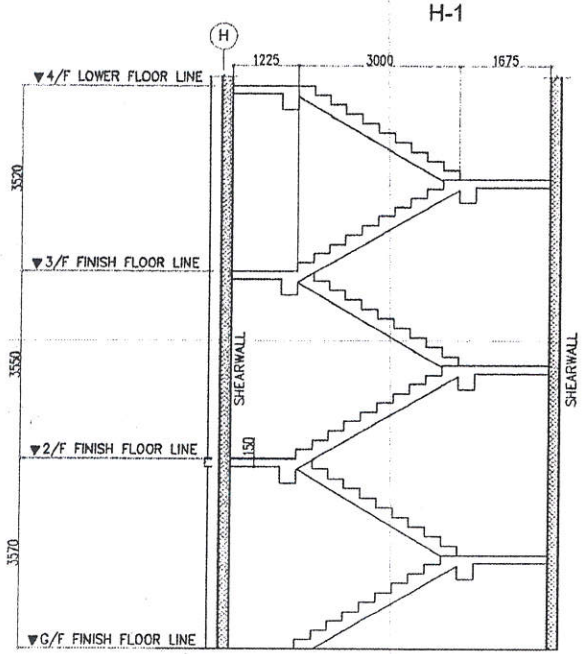






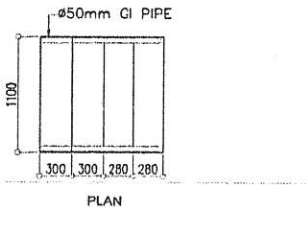
TRUSS DIAGRAMS

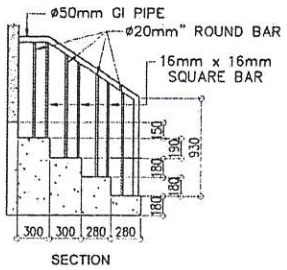
1 / S 07 SCALE: 1:100 M.



MAIN STAIR

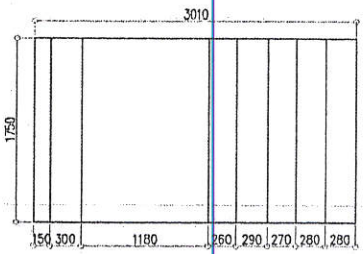
2 / S 7 SCALE: 1:100 M.

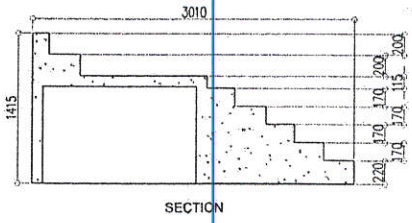




STAIR - 1

3 / S 7 SCALE: 1:50M.





STAIR - 2

4 / S 7 SCALE: 1:50M.

APR 17 2017

Date: 10/16/2017

GIBMA Engineering Services
Design - Construction - Project Management - Surveys
93 Kalikasan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611
Tel. No.: 482 7114 Fax. No.: 662 8467 Cellphone No.: 0920 9228441
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT B. MACAMBAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY: JBMN	SHEET CONTENTS: AS-BUILT TRUSS DIAGRAMS MAIN STAIR STAIR - 1 STAIR - 2
REG. NO.: 055251	PTR NO.: 2321699					CADD BY: BJC	DRAWING NO.: S - 7
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:	
TIN: 116-456-311	ISSUED AT: PASIG CITY					CHECKED BY: GBM	SHEET NO.: 7 / 20
						APPROVED BY:	
						DATE:	

SCHEDULE OF SLABS

LOCATION	DESIGNATION	TYPE	THICKNESS (mm)	SPACING OF TOP REBARS (Ø 10) NORTH	SOUTH	EAST	WEST	SPACING OF BOTTOM REBARS (Ø 10) NORTH-SOUTH	EAST-WEST
SECOND FLOOR	2S – 1	2 – WAY	150	100	100	150	150	100	150
	2S – 2	2 – WAY	150	100	100	150	150	100	150
	2S – 3	2 – WAY	150	100	100	150	150	100	150
	2S – 4	2 – WAY	150	100	100	150	150	100	150
	2S – 5	1 – WAY	150	100	100	150	150	100	150
	2S – 6	2 – WAY	150	100	100	150	150	100	150
	2S – 7	2 – WAY	150	100	100	150	150	100	150
	2S – 8	2 – WAY	150	100	100	150	150	100	150
	2S – 9	2 – WAY	150	100	100	150	150	100	150
	2S – 10	2 – WAY	150	100	100	150	150	100	150
	2S – 11	2 – WAY	150	100	100	150	150	100	150
	2S – 12	2 – WAY	150	100	100	150	150	100	150
	2S – 13	2 – WAY	150	100	100	150	150	100	150
	2S – 14	2 – WAY	150	100	100	150	150	100	150
	2S – 15	2 – WAY	150	100	100	150	150	100	150
	2CS – 1	1 – WAY	100	100	100	150	150	100	150
	2CS – 2	1 – WAY	100	100	100	150	150	100	150
	2CS – 3	1 – WAY	100	100	100	150	150	100	150
	2CS – 4	1 – WAY	100	100	100	150	150	100	150
	2CS – 5	1 – WAY	100	100	100	150	150	100	150
	2CS – 6	1 – WAY	100	100	100	150	150	100	150
	2SL – 1	1 – WAY	150	100	100	150	150	100	150
	2SL – 2	2 – WAY	150	100	100	150	150	100	150
THIRD FLOOR	3S – 1	1 – WAY	150	100	100	150	150	100	150
	3S – 2	2 – WAY	150	100	100	150	150	100	150
	3S – 3	2 – WAY	150	100	100	150	150	100	150
	3S – 4	2 – WAY	150	100	100	150	150	100	150
	3S – 5	2 – WAY	150	100	100	150	150	100	150
	3S – 6	2 – WAY	150	100	100	150	150	100	150
	3S – 7	2 – WAY	150	100	100	150	150	100	150
	3S – 8	2 – WAY	150	100	100	150	150	100	150
	3S – 9	2 – WAY	150	100	100	150	150	100	150
	3S – 10	2 – WAY	150	100	100	150	150	100	150
	3S – 11	2 – WAY	150	100	100	150	150	100	150
	3S – 12	2 – WAY	150	100	100	150	150	100	150
	3CS – 1	1 – WAY	100	100	100	150	150	100	150
	3CS – 2	1 – WAY	100	100	100	150	150	100	150
	3CS – 3	1 – WAY	100	100	100	150	150	100	150
	3CS – 4	1 – WAY	100	100	100	150	150	100	150
	3CS – 5	1 – WAY	100	100	100	150	150	100	150
	3CS – 6	1 – WAY	100	100	100	150	150	100	150
	3SL – 1	1 – WAY	150	100	100	150	150	100	150
	3SL – 2	2 – WAY	150	100	100	150	150	100	150
FOURTH FLOOR	4S – 1	2 – WAY	150	100	100	150	150	100	150
	4S – 2	2 – WAY	150	100	100	150	150	100	150
	4S – 3	2 – WAY	150	100	100	150	150	100	150
	4S – 4	2 – WAY	150	100	100	150	150	100	150
	4S – 5	2 – WAY	150	100	100	150	150	100	150

NOTES: USE ø10 @350MM DEFORMED STEEL BARS FOR TEMPERATURE REINFORCEMENT FOR ALL SLABS

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SCHEDULE OF BEAMS

BEAM MARKING	SECTION (B x H)	BEAM TYPE	LEFT END REBARS TOP	LEFT END REBARS BOTTOM	MIDSPAN REBARS TOP	MIDSPAN REBARS BOTTOM	RIGHT END REBARS TOP	RIGHT END REBARS BOTTOM	SIDE BARS	SPACING OF Ø10 STIRRUPS TO CENTER
2B–1	400 x 700	CONTINUOUS	3–ø20	2–ø20	3–ø20	3–ø20	3–ø20	2–ø20	8–ø20	1 @ 50, @ 100,REST @ 100 O.C.
2B–2	400 x 500	CONTINUOUS	3–ø20	2–ø20	3–ø20	3–ø20	3–ø20	2–ø20	6–ø20	1 @ 50, @ 100,REST @ 100 O.C.
2B–3	300 x 500	CONTINUOUS	3–ø20	2–ø20	3–ø20	3–ø20	3–ø20	2–ø20	4–ø20	1 @ 50, @ 100,REST @ 100 O.C.
2B–4	250 x 350	CONTINUOUS	2–ø20	2–ø20	2–ø20	3–ø20	2–ø20	2–ø20	2–ø20	1 @ 50, @ 100,REST @ 100 O.C.
2B–5	300 x 450	CONTINUOUS	2–ø20	2–ø20	2–ø20	3–ø20	2–ø20	2–ø20	2–ø20	1 @ 50, @ 100,REST @ 100 O.C.
3B–1	400 x 750	CONTINUOUS	3–ø20	2–ø20	3–ø20	3–ø20	3–ø20	2–ø20	8–ø20	1 @ 50, @ 100,REST @ 100 O.C.
3B–2	400 x 400	CONTINUOUS	3–ø20	2–ø20	3–ø20	3–ø20	3–ø20	2–ø20	6–ø20	1 @ 50, @ 100,REST @ 100 O.C.
3B–3	350 x 400	CONTINUOUS	4–ø20	4–ø20	4–ø20	4–ø20	4–ø20	4–ø20	2–ø20	1 @ 50, @ 100,REST @ 100 O.C.
3B–4	300 x 450	CONTINUOUS	2–ø20	2–ø20	2–ø20	2–ø20	2–ø20	2–ø20	4–ø20	1 @ 50, @ 100,REST @ 100 O.C.
3B–5	200 x 350	CONTINUOUS	2–ø20	2–ø20	2–ø20	2–ø20	2–ø20	2–ø20	2–ø20	1 @ 50, @ 100,REST @ 100 O.C.
4B–1	300 x 750	CONTINUOUS	3–ø16	2–ø16	3–ø16	3–ø16	3–ø16	2–ø16	8–ø16	1 @ 50, @ 100,REST @ 100 O.C.
4B–2	400 x 950	CONTINUOUS	4–ø16	4–ø16	4–ø16	4–ø16	4–ø16	4–ø16	6–ø16	1 @ 50, @ 100,REST @ 100 O.C.
4B–3	400 x 650	CONTINUOUS	3–ø16	2–ø16	3–ø16	3–ø16	3–ø16	2–ø16	6–ø16	1 @ 50, @ 100,REST @ 100 O.C.
4B–4	400 x 400	CONTINUOUS	3–ø16	2–ø16	3–ø16	3–ø16	3–ø16	2–ø16	6–ø16	1 @ 50, @ 100,REST @ 100 O.C.
UP1 RB–1	400 x 450	CONTINUOUS	3–ø16	2–ø16	3–ø16	3–ø16	3–ø16	2–ø16	4–ø16	1 @ 50, @ 100,REST @ 100 O.C.

SCHEDULE OF WALL

WALL MARK	THICKNESS (mm)	BAR LOCATION	BAR DIA.	SPACING (mm)	REMARKS
SW–1	200	VERTICAL	ø–12	150	SHEAR WALL
		HORIZONTAL	ø–12	200	

SCHEDULE OF COLUMNS

COLUMN MARKING	LEVEL	SECTION (B X H)	MAIN VERT. REBARS	Ø10 LATERAL TIES
C – 1	GROUND – SECOND FLOOR	450 x 450	16–ø20	1 SET @ 100 O.C.
C – 2	GROUND – SECOND FLOOR	250 x 250	8–ø12	1 SET @ 100 O.C.
C – 3	GROUND – SECOND FLOOR	300 x 300	8–ø12	1 SET @ 100 O.C.
2C – 1	SECOND FLOOR – THIRD FLOOR	400 x 400	8–ø20	1 SET @ 100 O.C.
2C – 2	SECOND FLOOR – THIRD FLOOR	250 x 250	8–ø12	1 SET @ 100 O.C.
2C – 3	SECOND FLOOR – THIRD FLOOR	300 x 300	8–ø12	1 SET @ 100 O.C.
3C – 1	THIRD FLOOR – FOURTH FLOOR	400 x 400	8–ø20	1 SET @ 100 O.C.
3C – 2	THIRD FLOOR – FOURTH FLOOR	300 x 300	8–ø20	1 SET @ 100 O.C.
4C – 1	FOURTH FLOOR – ROOF BEAM	400 x 400	8–ø20	1 SET @ 100 O.C.

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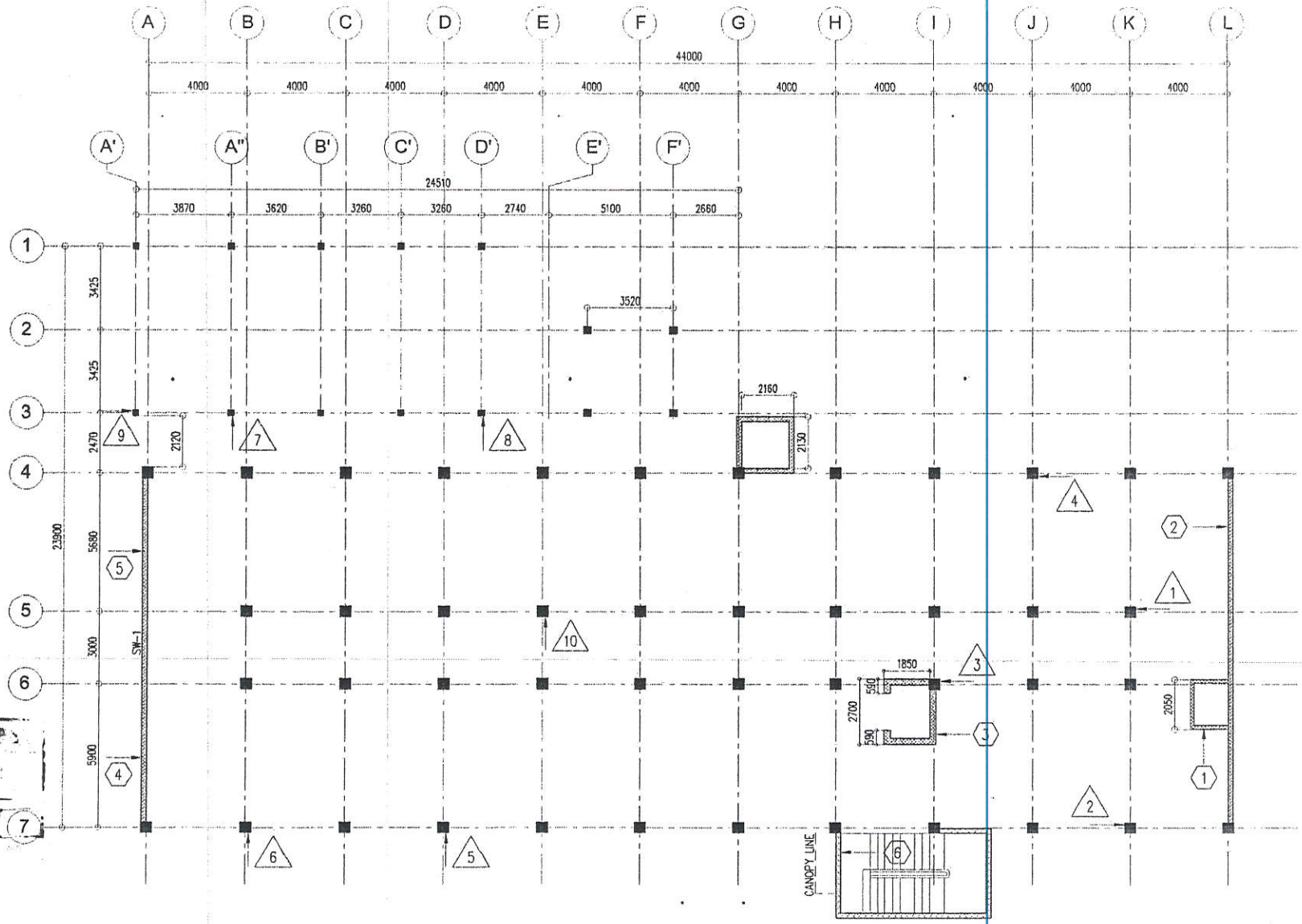
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL/STRUCTURAL ENGINEER: GILBERT B. MADRIDEJO	PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY: JBMH	SHEET CONTENTS: AS-BUILT SCHEDULE OF BEAMS SCHEDULE OF SLABS SCHEDULE OF WALLS SCHEDULE OF COLUMNS	DRAWING NO.: S - 8
REG. NO.: 055251 PTR NO.: 2321999					CADD BY: BJC		
DATE: AUG. 1 1989 ISSUED ON: JAN. 4, 2017	LOCATION:	ADDRESS:			DATE:		
TIN: 106-419-911 ISSUED AT: PASIG CITY	SAN LAZARO COMPOUND STA. CRUZ MANILA	SAN LAZARO COMPOUND, STA. CRUZ MANILA			CHECKED BY: GBM		SHEET NO.: 8 / 20
					APPROVED BY:		
					DATE:		



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LEGEND:

SHEAR WALL →

COLUMN →

1 / S 9 **GROUND FLOOR FRAMING PLAN**

SCALE: 1:175M.

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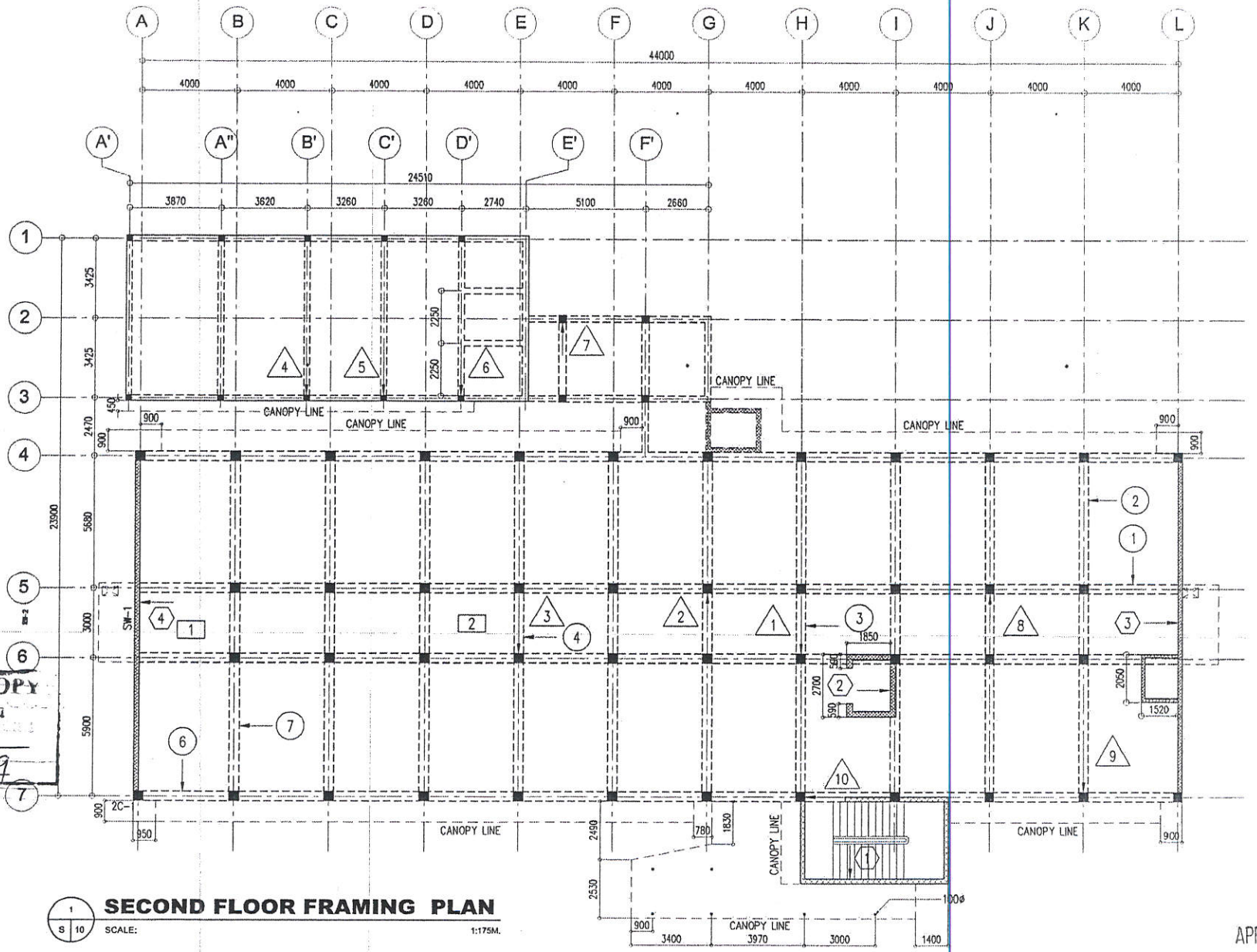
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT A. MAGRITAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	TESTED BY:	JRL	SHEET CONTENTS: (CONCRETE REBOUND HAMMER LOCATIONS) GROUND FLOOR FRAMING PLAN	DRAWING NO.: S - 9
REG. NO.: 055251	PTR NO.: 2321189					CADD BY:	BJC		
DATE: AUG. 1, 1995	ISSUED ON: JAN. 3, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 9 / 20
TIN: 100-459-911	ISSUED AT: PASIG CITY					CHECKED BY:	GRM		
						APPROVED BY:			
						DATE:			



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LEGEND:

SLAB →
SHEAR WALL →
COLUMN →
BEAM →

SECOND FLOOR FRAMING PLAN

SCALE: 1:175M.

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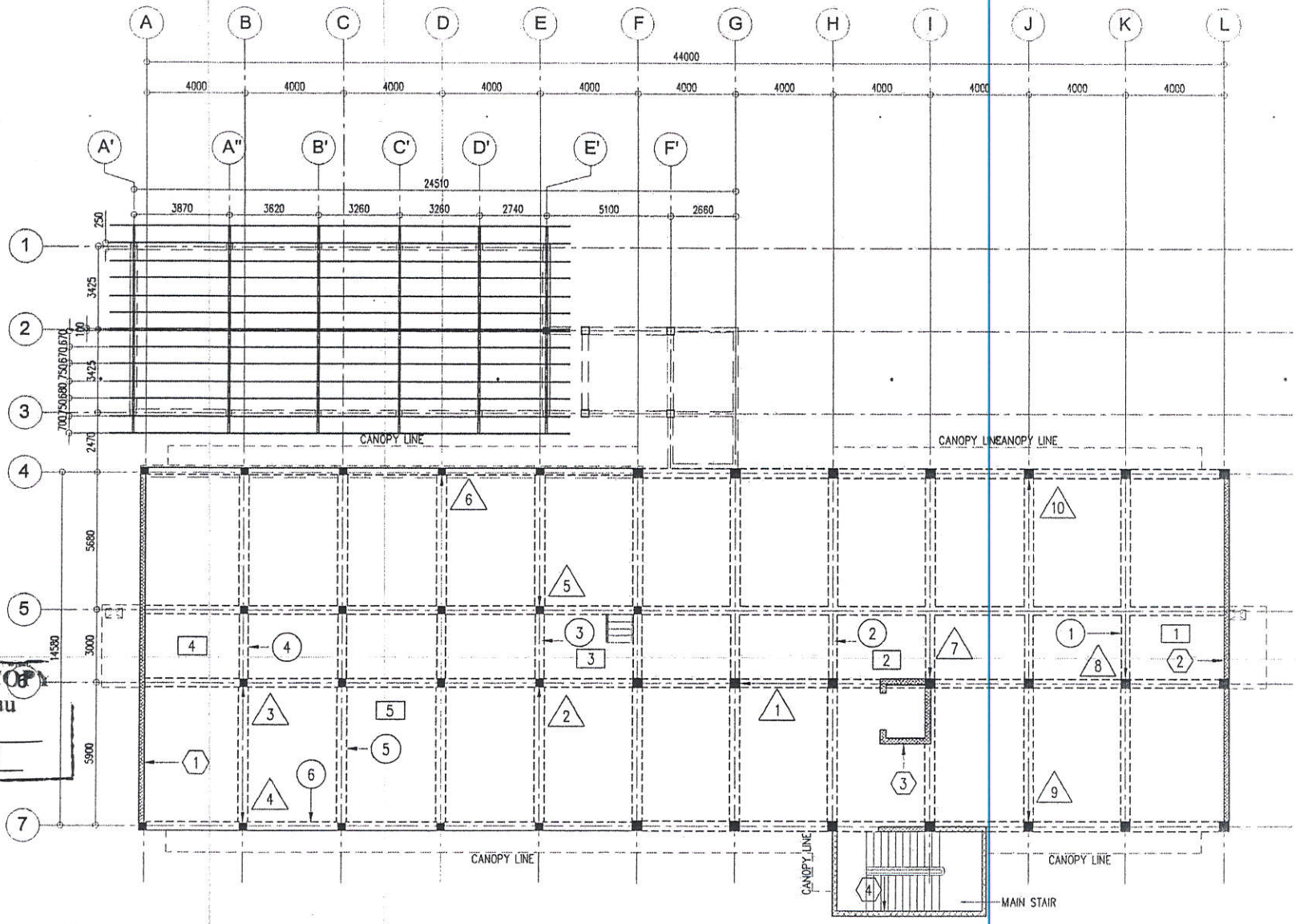
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT B. MAGBUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	TESTED BY:	JSL	SHEET CONTENTS: (CONCRETE REBOUND HAMMER LOCATIONS) SECOND FLOOR FRAMING PLAN	DRAWING NO.: S - 10
REG. NO.: 055251	PTR NO.: 2321899					CADD BY:	BJC		
DATE: AUG. 1, 1988	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 10 / 20
TIN: 106-458-411	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
						APPROVED BY:			
						DATE:			



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LEGEND:
SLAB
SHEAR WALL
COLUMN
BEAM

S-11 SCALE: 1:175 M.

THIRD FLOOR FRAMING PLAN

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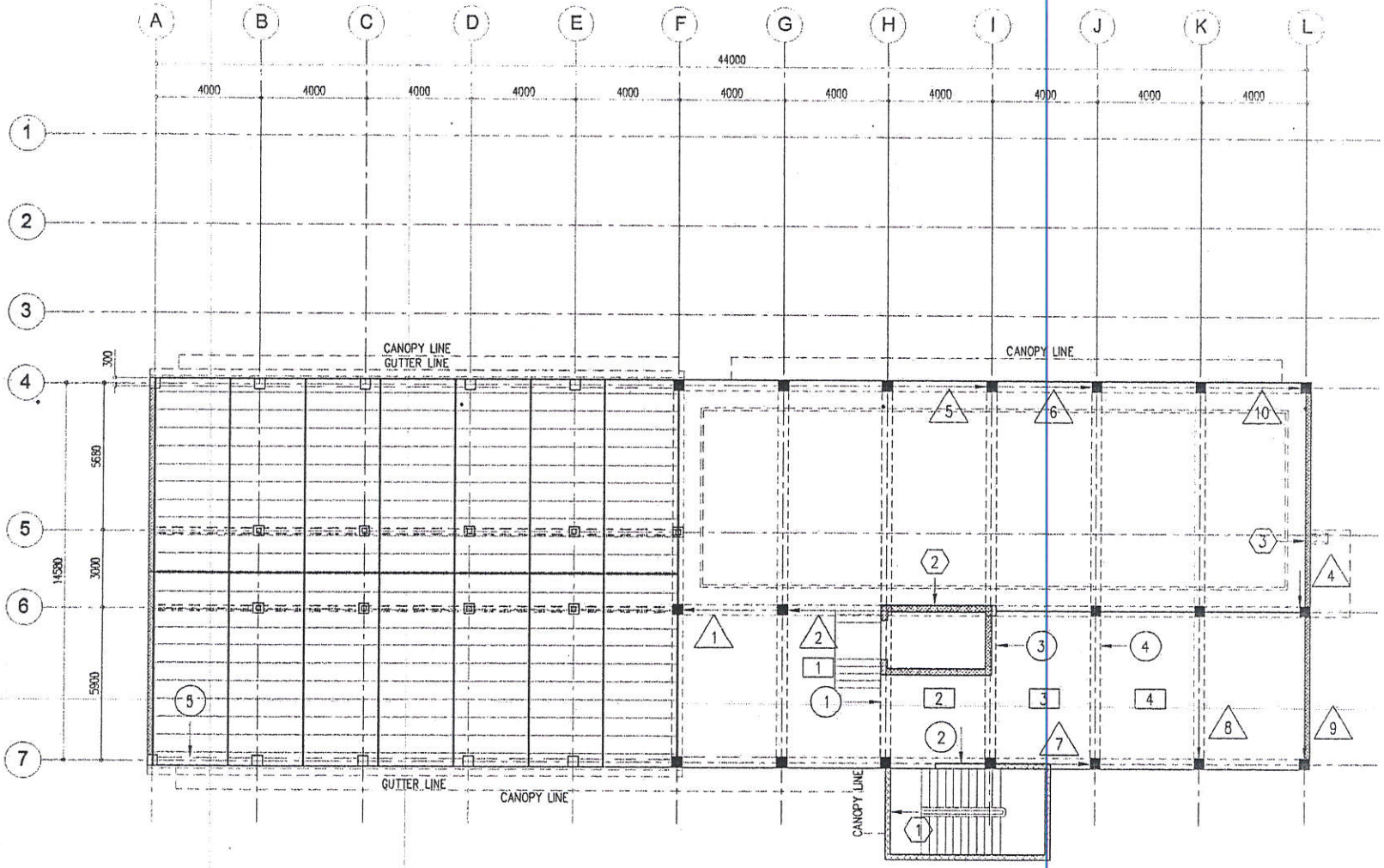
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT B. MACQUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	TESTED BY:	JSL	SHEET CONTENTS: (CONCRETE REBOUND HAMMER LOCATIONS) THIRD FLOOR FRAMING PLAN	DRAWING NO.: S - 11
REG. NO.: 088251	PTR NO.: 2321099					CADD BY:	BJC		
DATE: AUG. 1, 1988	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 11 / 20
TIN: 106-456-911	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
						APPROVED BY:			
						DATE:			



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LEGEND:

SLAB
SHEAR WALL
COLUMN
BEAM

1 / S 12 **FOURTH FLOOR / LOWER ROOF FRAMING PLAN**

SCALE: 1:175 M.

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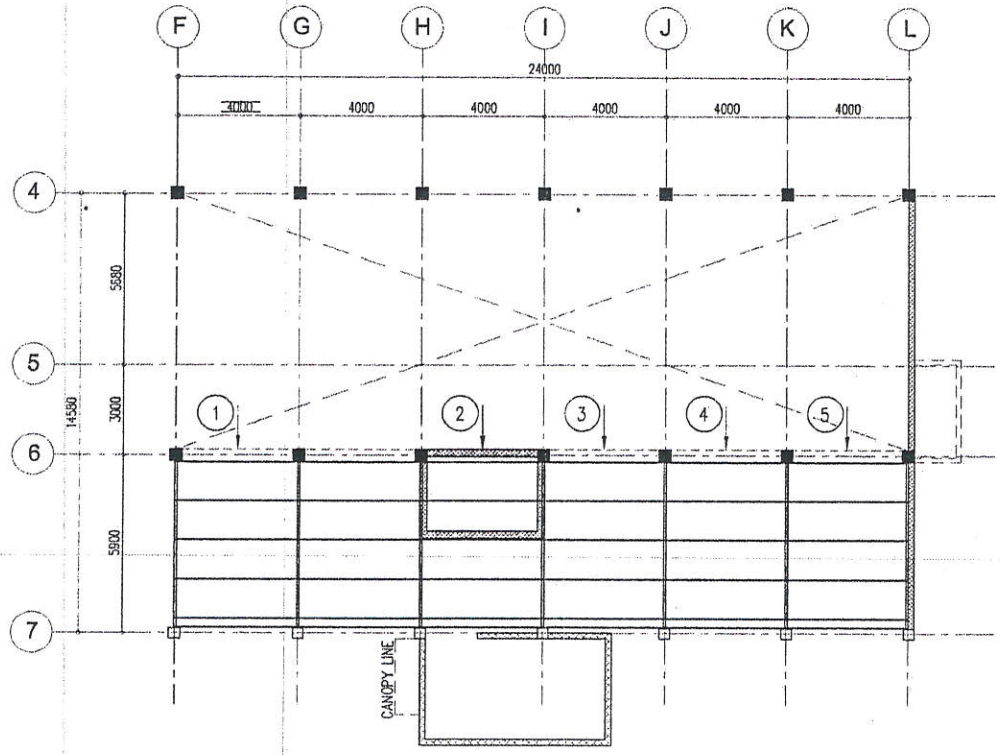
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT D. MAGRIBUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	TESTED BY:	JDL	SHEET CONTENTS: (CONCRETE REBOUND HAMMER LOCATIONS) FOURTH FLOOR/ LOWER ROOF FRAMING PLAN	DRAWING NO.: S - 12
REG. NO.: 105251	PTR NO.: 2321699					CADD BY:	BJC		
DATE: AUG. 1, 1980	ISSUED ON: JAN. 4, 2017	LOCATION:	ADDRESS:			DATE:			SHEET NO.: 12 / 20
TIN: 104-458-911	ISSUED AT: PASIG CITY	SAN LAZARO COMPOUND, STA. CRUZ, MANILA	SAN LAZARO COMPOUND, STA. CRUZ, MANILA			CHECKED BY:	GBM		
						APPROVED BY:			
						DATE:			



1 / S 13 **UPPER ROOF - 1 FRAMING PLAN**

SCALE: 1:175 M.

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LEGEND:

BEAM → ◯

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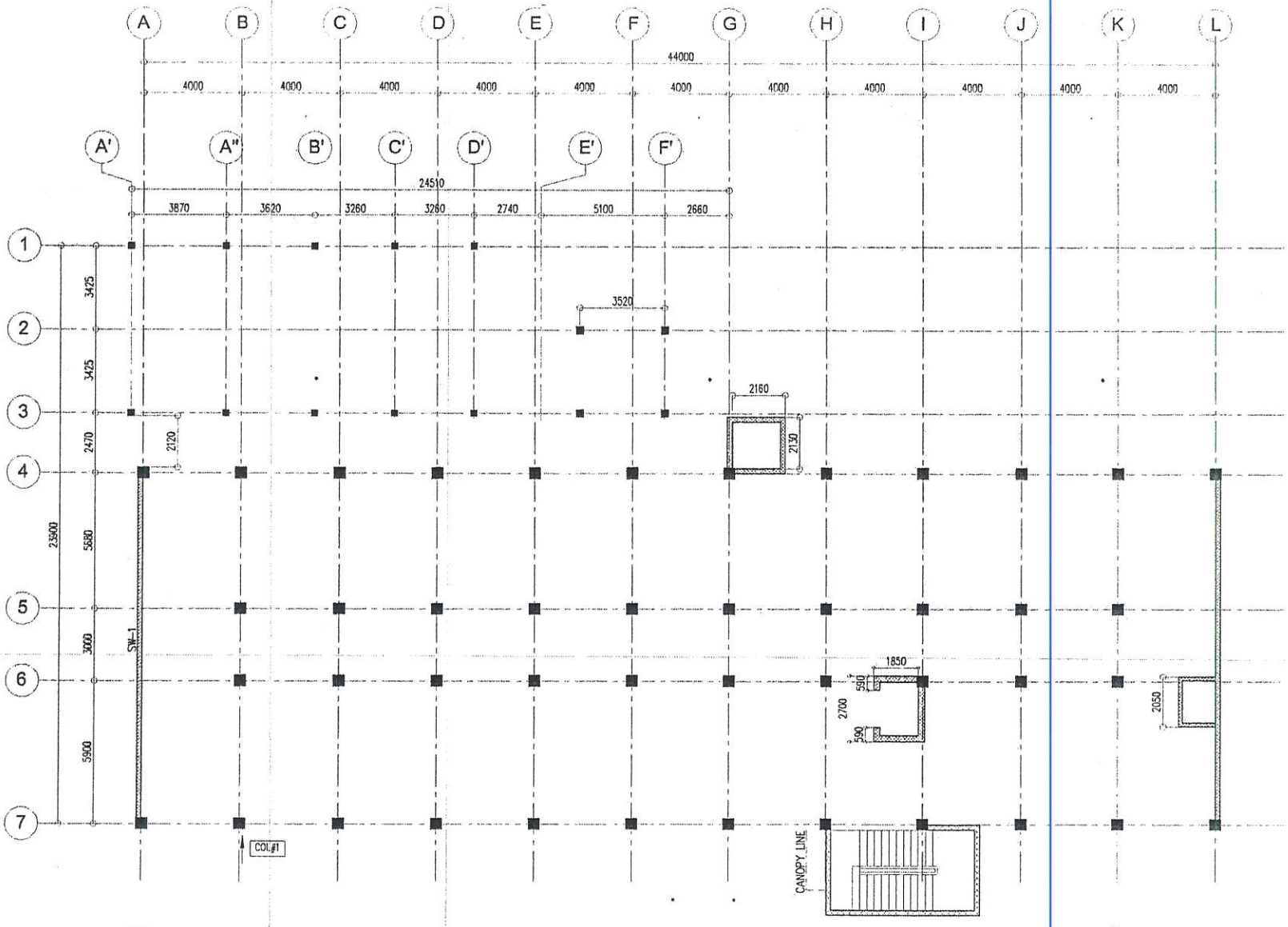

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LEGEND:
→ COLUMN & BEAM CORING LOCATIONS

1 / S 14

GROUND FLOOR FRAMING PLAN

SCALE: 1:175M.

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CIVIL / STRUCTURAL ENGINEER: GILBERT B. MASBUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	—	SHEET CONTENTS: (CONCRETE CORING LOCATIONS) GROUND FLOOR FRAMING PLAN	DRAWING NO.: S - 14
REG. NO.: 85251	PTR NO.: 2321699					CADD BY:	BAS		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 14 / 20
TIN: 106-458-911	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
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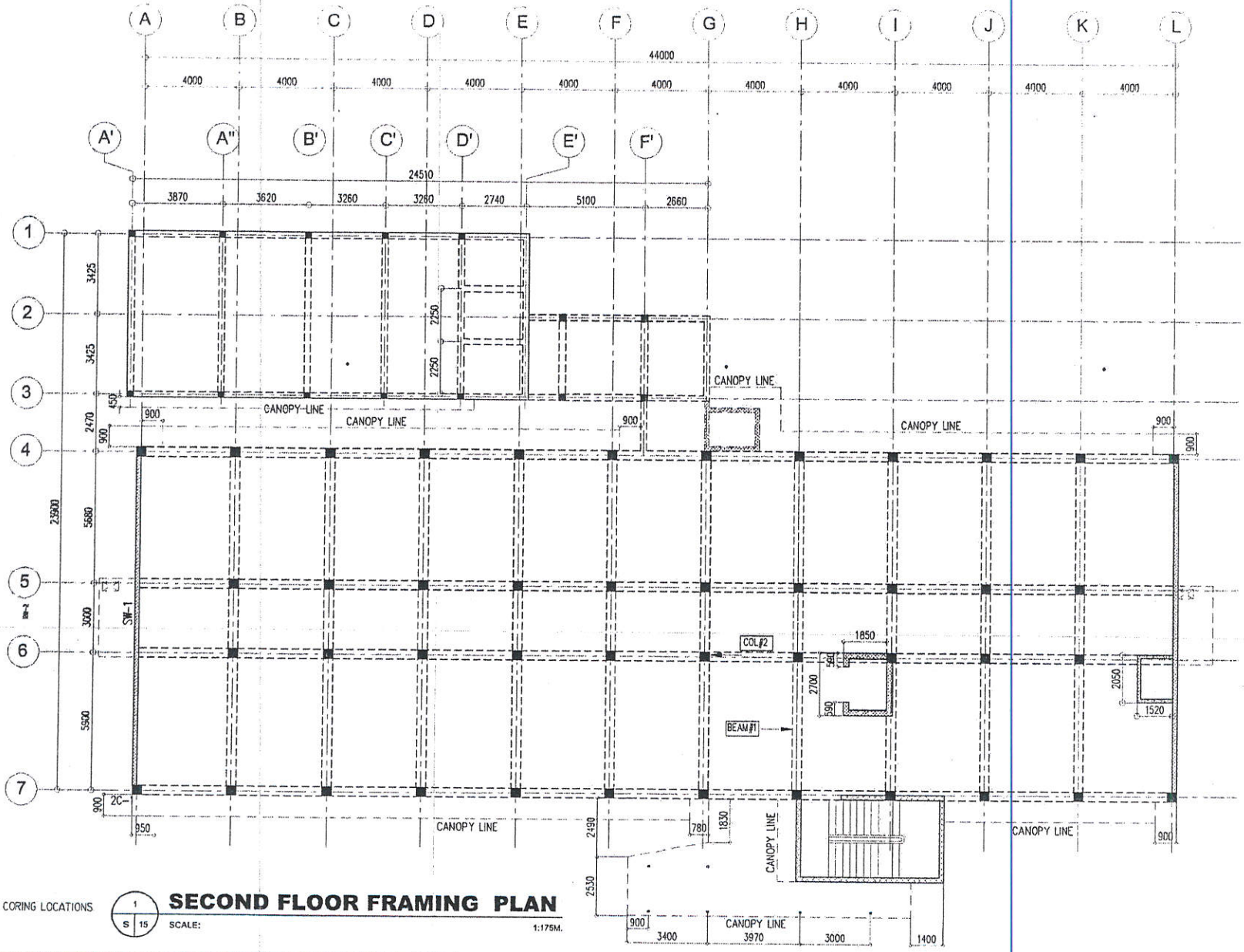

LEGEND:

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SECOND FLOOR FRAMING PLAN

SCALE: 1:175M.

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CIVIL / STRUCTURAL ENGINEER: GILBERT B. GIBMA JR.		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	—	SHEET CONTENTS: (CONCRETE CORING LOCATIONS) SECOND FLOOR FRAMING PLAN	DRAWING NO.: S - 15
REG. NO.: 055251	PTR NO.: 2321499					CADD BY:	BAB		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			DATE:			SHEET NO.: 15 / 20
TIN: 106-469-911	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
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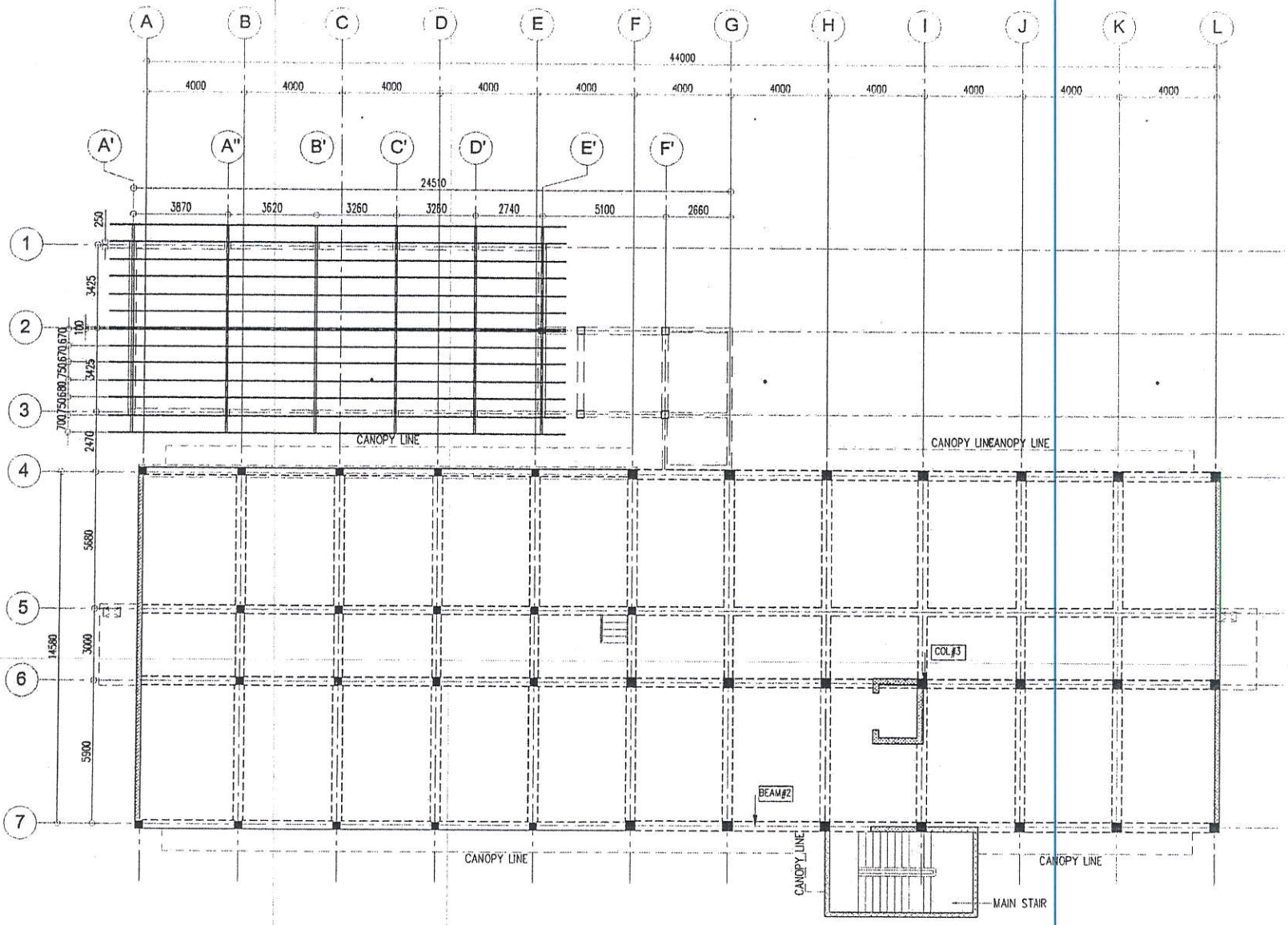

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Engr. Gilberto Magnitay
Date: APR 17 2017

LEGEND:
→ COLUMN & BEAM CORING LOCATIONS

S 1 / 16

THIRD FLOOR FRAMING PLAN

SCALE: 1:175 M.

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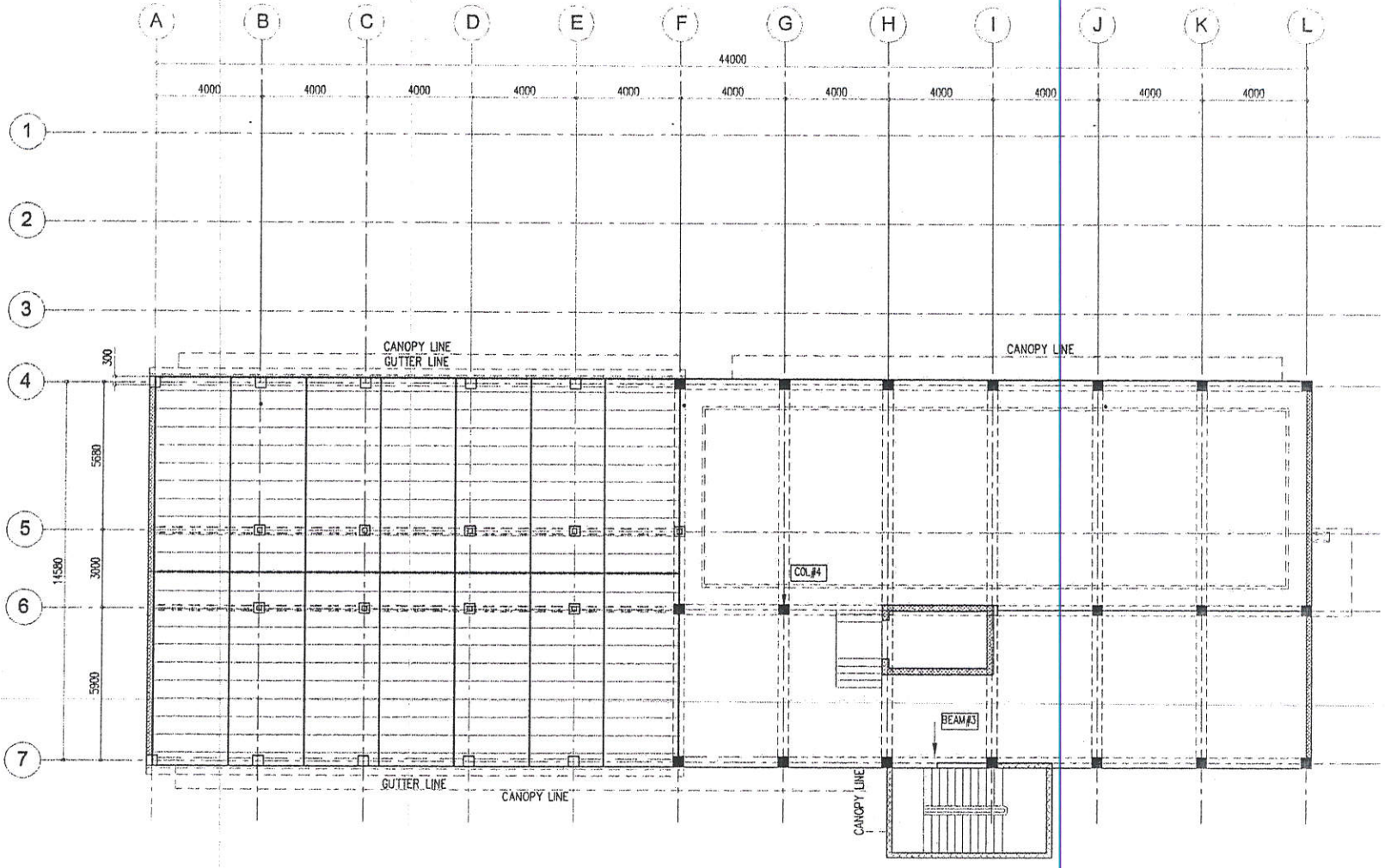
CIVIL / STRUCTURAL ENGINEER: GILBERTO MAGNITAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	—	SHEET CONTENTS: (CONCRETE CORING LOCATIONS) THIRD FLOOR FRAMING PLAN	DRAWING NO.: S - 16
REG. NO.: 058251	PTR NO.: 2321899					DRAWN BY:	BAS		
DATE: AUG. 1 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ, MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ, MANILA			CHECKED BY:	GBM		SHEET NO.: 16 / 20
TIN: 109-459-911	ISSUED AT: PASIG CITY					APPROVED BY:			
						DATE:			



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1 / S 17 **FOURTH FLOOR / LOWER ROOFFRAMING PLAN**

SCALE: 1:75 M.

LEGEND:

→ COLUMN & BEAM CORING LOCATIONS

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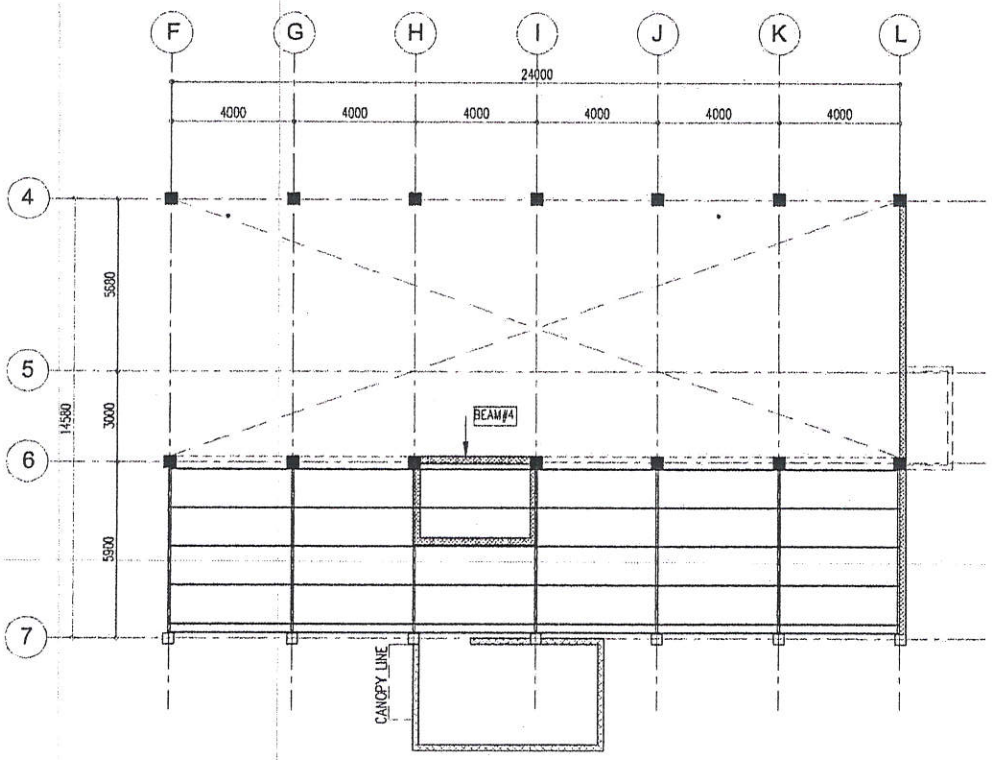
CIVIL / STRUCTURAL ENGINEER: GILBERT B. MADRIGAL		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	—	SHEET CONTENTS: (CONCRETE CORING LOCATIONS) UPPER ROOF - 1 FRAMING PLAN	DRAWING NO.: S - 17
REG. NO.: 055251	PTR NO.: 2321899					CADD BY:	BAS		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION:	ADDRESS:			DATE:			
TIN: 116-469-911	ISSUED AT: PASIG CITY	SAN LAZARO COMPOUND, STA. CRUZ, MANILA	SAN LAZARO COMPOUND, STA. CRUZ, MANILA			CHECKED BY:	GBM		SHEET NO.: 17 / 20
						APPROVED BY:			
						DATE:			



1 / S 18 **UPPER ROOF - 1 FRAMING PLAN**

SCALE: 1:175 M.

LEGEND:

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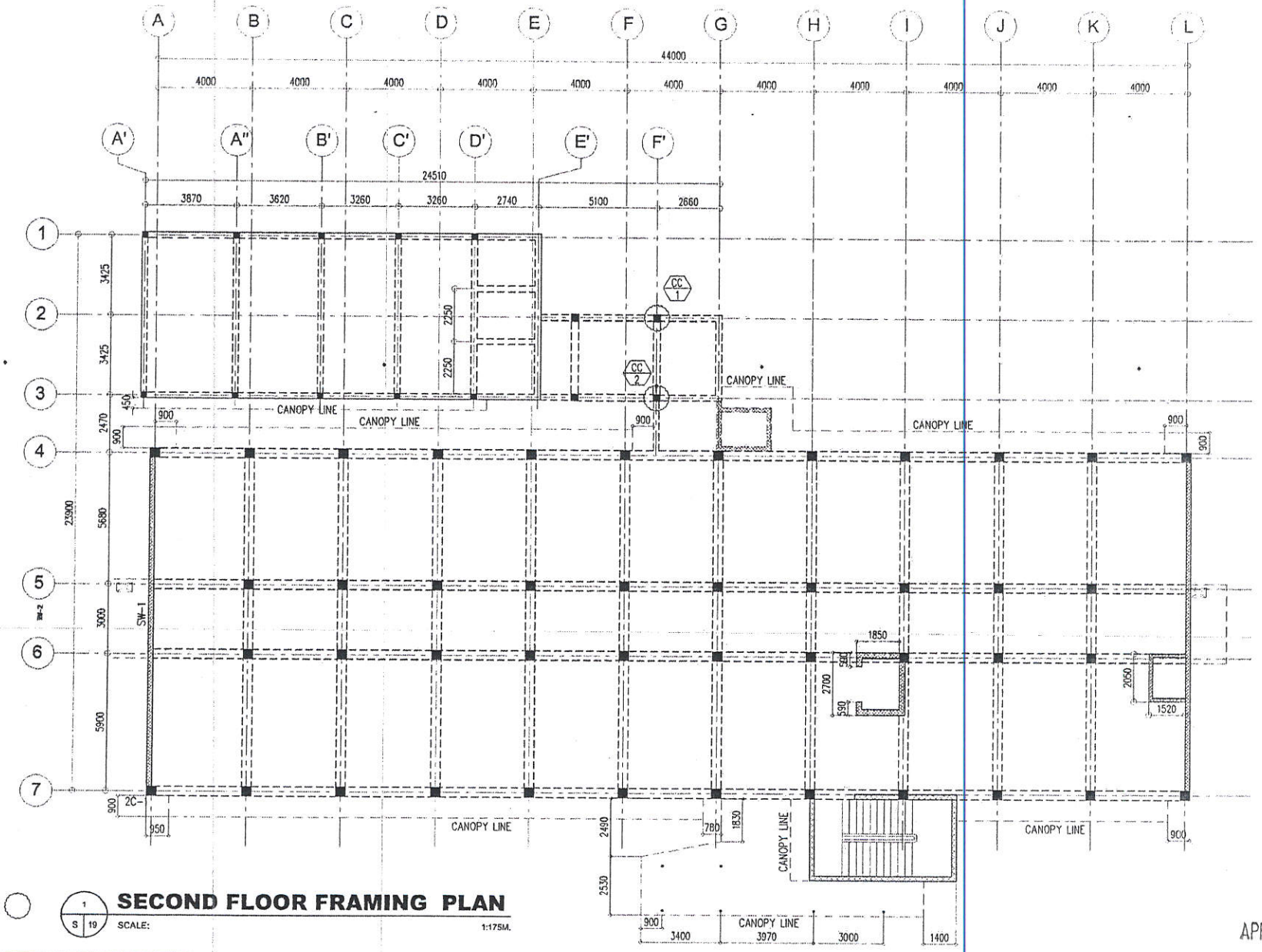
93 Kalihasan Street Kerangalan Village Phase 2A, Dela Paz, Pasig City 1811
Tel. No.: 682 7114 Fax No.: 682 7487 Cellphone No.: 0928 9726441
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT S. MAGRUTAY		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	DESIGNED BY:	---	SHEET CONTENTS: (CONCRETE CORING LOCATIONS) UPPER ROOF - 1 FRAMING PLAN	DRAWING NO.: S - 18
REG. NO.: 065251	PTR NO.: 2321699					CADD BY:	BAS		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017	LOCATION: SAN LAZARO COMPOUND STA. CRUZ MANILA	ADDRESS: SAN LAZARO COMPOUND STA. CRUZ, MANILA			DATE:			SHEET NO.: 18 / 20
TIN: 109-459-411	ISSUED AT: PASIG CITY					CHECKED BY:	GBM		
						APPROVED BY:			
						DATE:			



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Epidemiology Bureau
Date: 10/16/2017

LEGEND:
(CC) CRACK ON COLUMN

1 / S 19

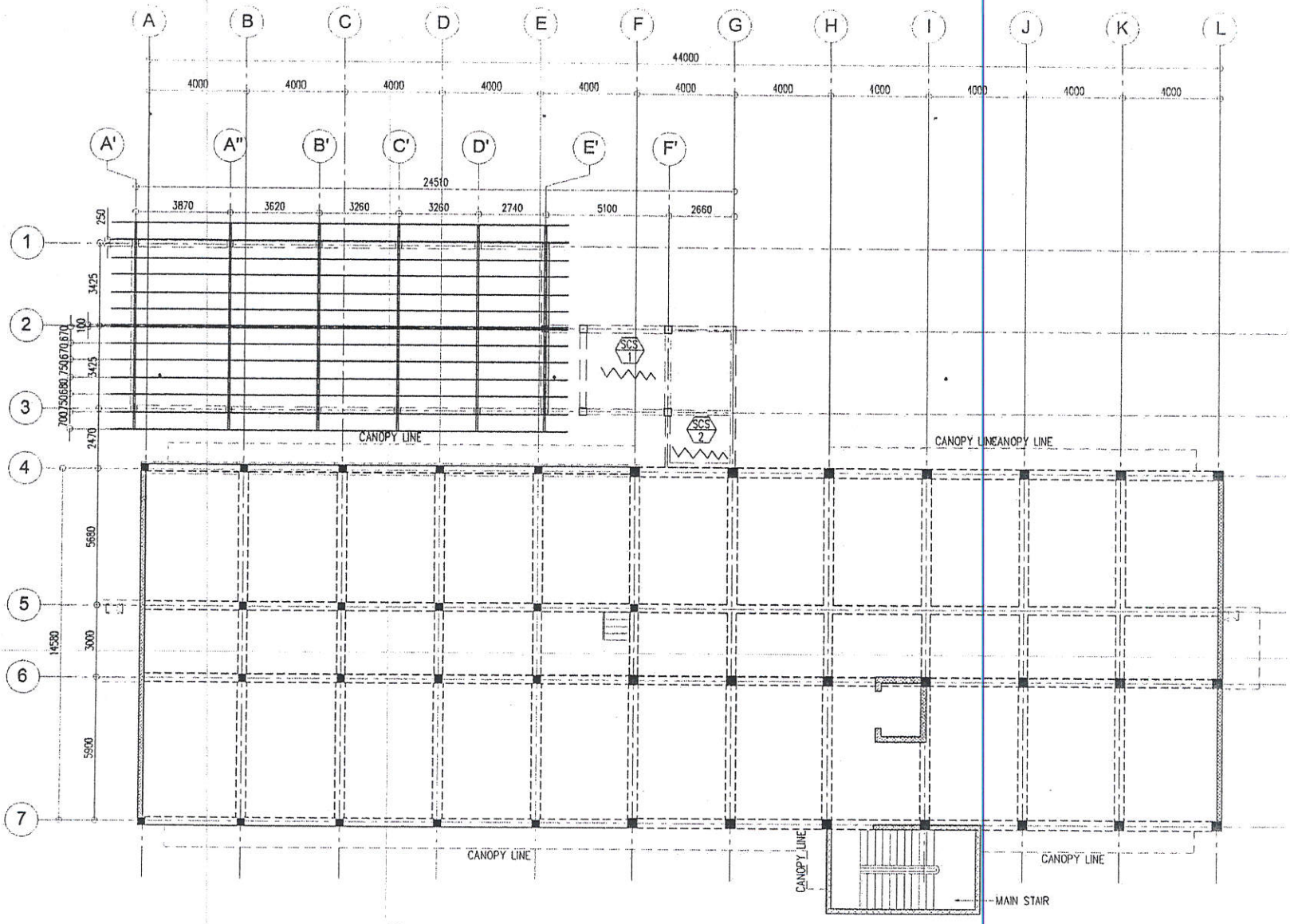
SECOND FLOOR FRAMING PLAN

SCALE: 1:175M.

APR 17 2017

GIBMA Engineering Services
Design - Construction - Project Management - Surveys
93 Kalinaan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611
Tel. No.: 862 7114 Fax. No.: 862 5467 Cellphone No.: 0920 9720441
URL: www.gibma.com E-mail: gibma2003@yahoo.com

CIVIL / STRUCTURAL ENGINEER: GILBERT D. MADRIDEJAV		PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19	OWNER: DEPARTMENT OF HEALTH	DATE:	REVISION:	TESTED BY:	JSL	SHEET CONTENTS: (CRACK LOCATIONS) SECOND FLOOR FRAMING PLAN	DRAWING NO.: S - 19
REG. NO.: 055251	PTR NO.: 2321499					DRAWN BY:	BJC		
DATE: AUG. 1, 1989	ISSUED ON: JAN. 4, 2017					DATE:			
TIN: 108-459-911	ISSUED AT: PASIG CITY	LOCATION: SAN LAZARO COMPOUND, STA. CRUZ MANILA	ADDRESS: SAN LAZARO COMPOUND, STA. CRUZ MANILA			CHECKED BY:	GMM		SHEET NO.: 19 / 20
						APPROVED BY:			
						DATE:			



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Epidemiology Bureau
Date: 10/6/2016

LEGEND:

(SCS) SPALLING CONCRETE LOCATIONS

1 / S 20 **THIRD FLOOR FRAMING PLAN**

SCALE: 1:175 M.

APR 17 2017

GIBMA Engineering Services Design - Construction - Project Management - Surveys 93 Katipunan Street Kalangitan Village Phase 2A, Dela Paz, Pasig City 1811 Tel. No.: 882 7114 Fax. No.: 882 5467 Cellphone No.: 0920 9226441 URL: www.gibma.com E-mail: gibma2002@yahoo.com	CIVIL / STRUCTURAL ENGINEER: GILBERT M. GIBUTAY REG. NO.: 109751 PTR NO.: 2321089 DATE: AUG. 1, 1989 ISSUED ON: JAN. 4, 2017 TIN: 106-459-911 ISSUED AT: PASIG CITY	PROJECT TITLE: STRUCTURAL INSPECTION, INVESTIGATION AND CERTIFICATION OF STRUCTURAL STABILITY OF DOH BUILDING NO.19 LOCATION: SAN LAZARO COMPOUND STA. CRUZ MANILA	OWNER: DEPARTMENT OF HEALTH ADDRESS: SAN LAZARO COMPOUND STA. CRUZ MANILA	DATE:	REVISION:	TESTED BY: JSL CADD BY: BJC DATE: CHECKED BY: GBM APPROVED BY: DATE:	SHEET CONTENTS: (SPALLING CONCRETE LOCATIONS) THIRD FLOOR FRAMING PLAN	DRAWING NO.: S - 20 SHEET NO.: 20 / 20

UNIVERSAL TESTING LABORATORY AND INSPECTION, INC.
#7 JADC Compound, E. Rodriguez Jr. Ave, Brgy. Bagong Ilog Pasig City

TEST REPORT ON FIELD CORED CONCRETE SAMPLE (ASTM C-42)

Customer/Client : **GIBMA ENGINEERING SERVICES**
Project : STRUCTURAL INVESTIGATION OF DOH BUILDING # 19
Location : BUILDING #19 SAN LAZARO COMPOUND, STA CRUZ, MANILA
Submitted by : GIBMA Representative

LAB No. TR - 0317-37929
Date Tested : March 15, 2017
Specified Strength : Not Stated

CORE SAMPLE ID	LOCATION	ACTUAL DIAMETER (mm)	LENGTH (mm) BEFORE CAPPING	LENGTH (mm) AFTER CAPPING	L/D	STRENGTH CORRECTION FACTOR	CROSS SECTIONAL AREA, mm^2	COMPRESSIVE LOAD (kN)	COMPRESSIVE STRENGTH Mpa	COMPRESSIVE STRENGTH Psi	CORRECTED COMPRESSIVE STRENGTH Psi
1	Beam (1)	75.8	149.6	151.4	2.00	1.00	4.513	50.7	11.2	1624	1624
2	Column (2)	75.8	148.7	151.4	2.00	1.00	4.513	59.6	13.2	1914	1914
3	Beam (3)	75.8	149.0	151.4	2.00	1.00	4.513	52.1	11.5	1668	1668
4	Column (4)	75.8	147.0	151.4	2.00	1.00	4.513	61.1	13.5	1958	1958
5	Beam (5)	75.8	148.5	151.4	2.00	1.00	4.513	55.1	12.2	1769	1769
6	Column (6)	75.8	145.0	151.4	2.00	1.00	4.513	62.9	13.9	2020	2020
7	Beam (7)	75.8	147.0	151.4	2.00	1.00	4.513	55.6	12.3	1784	1784
8	Column (8)	75.8	148.5	151.4	2.00	1.00	4.513	64.1	14.2	2059	2059

Remarks : This report is the result of test performed on the specimen submitted.

Tested by:
D. S. Nuque
Sr. Lab. Technician

Checked by:
R. B. Dela Cruz
Laboratory Supervisor

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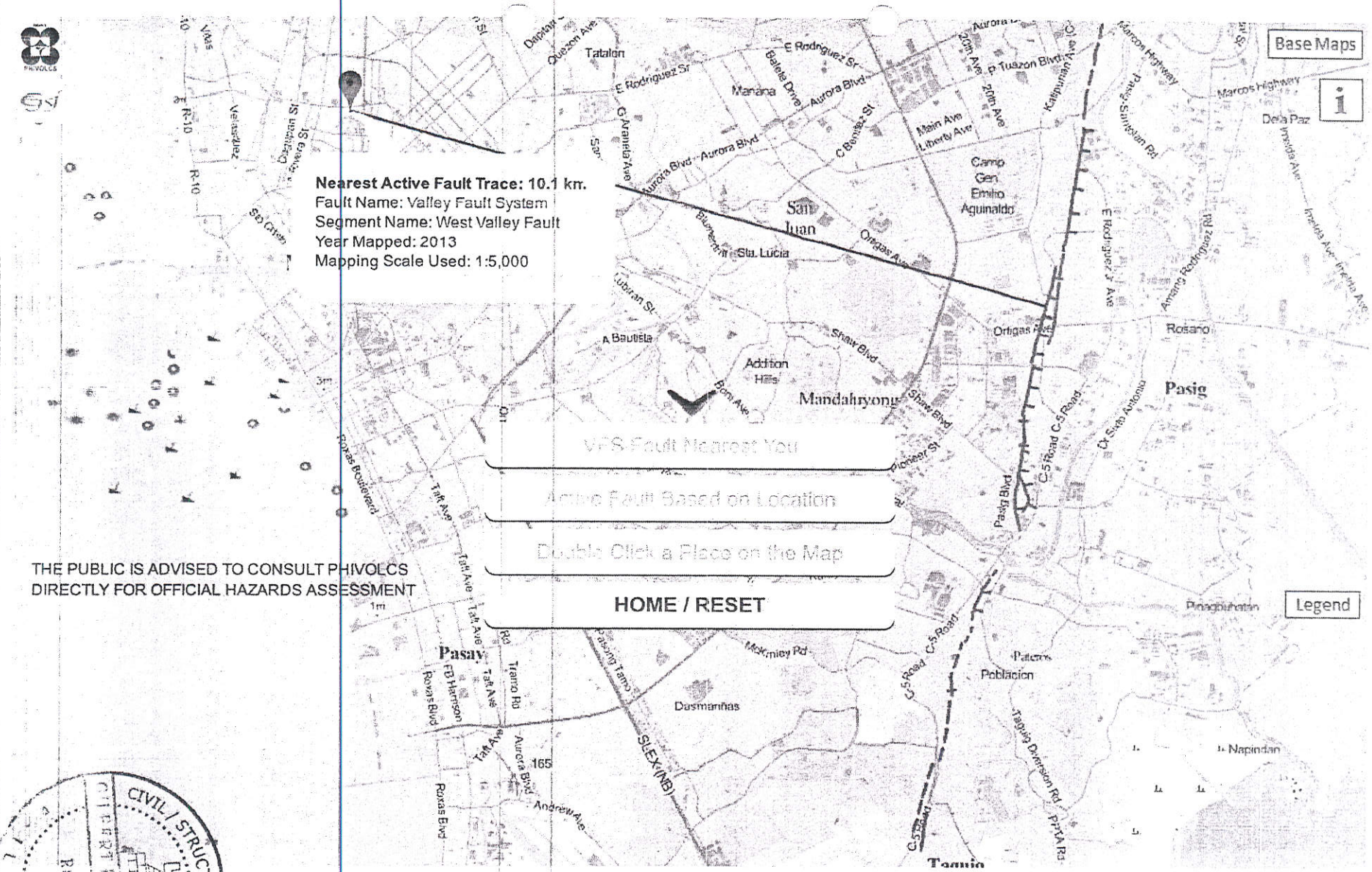
Epidemiology, Bureau
Date: 10/16/2017

Certified by:
D. B. Santos
Manager



THE PUBLIC IS ADVISED TO CONSULT PHIVOLCS DIRECTLY FOR OFFICIAL HAZARDS ASSESSMENT

CIVIL / STRUCTURAL ENGINEER
ROBERT R. MACEDAY
PHILIPPINES

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Epidemiology Bureau
Date: 10/16/2019

Rapid Visual Screening of Buildings for Potential Seismic Hazards (FEMA 154)

Quick Reference Guide (for use with Data Collection Form)

1. Model Building Types and Critical Code Adoption and Enforcement Dates

Structural Types		Year Seismic Codes Initially Adopted and Enforced *	Benchmark Year when Codes Improved
S1	Steel moment-resisting frame	92	1992
S2	Steel braced frame	92	1992
S3	Light metal frame	92	1992
S4	Steel frame with cast-in-place concrete shear walls	92	1992
S5	Steel frame with unreinforced masonry infill	92	1992
C1	Concrete moment-resisting frame	92	1985
C2	Concrete shear wall	92	1985
C3	Concrete frame with unreinforced masonry infill	92	1985

*Not applicable in regions of low seismicity

2. Anchorage of Heavy Cladding

Year in which seismic anchorage requirements were adopted: _____

3. Occupancy Loads

Use	Square meter, per Person
Assembly	varies, 50 minimum
Commercial/School	550 - 2000
Emergency Services	1000
Government Office	1000 - 2000

4. Score Modifier Definitions

Mid-Rise:	4 to 7 stories
High-Rise:	8 or more stories
Vertical Irregularity:	Steps in elevation view; inclined walls; building on hill; soft story (e.g., house over garage; building with short columns; unbraced cripple walls.
Plan Irregularity:	Building with re-entrant corners (L, T, U, E, + or other irregular building plan); buildings with good lateral resistance in one direction but not in the other direction; eccentric stiffness in plan, (e.g. corner building, or wedge-shaped building, with one or two solid walls and all other walls open).
Pre-Code:	Building designed and constructed prior to the year in which seismic codes were first adopted and enforced in the jurisdiction; use years specified above in item 1; default is 1941, except for PC1, which is 1973.
Post-Benchmark:	Building designed and constructed after significant improvements in seismic code requirements (e.g., ductile detailing) were adopted and enforced; the benchmark year when codes improved may be different for each building type and jurisdiction; use years specified above in item 1.
Soil Type C:	Soft rock or very dense soil; S - wave velocity: 1200-2500 ft/s; blow count > 50; or undrained shear strength > 2000 psf.
Soil Type D:	Stiff soil; S-wave velocity < 600-1200 ft/s; blow count: 15-50; or undrained shear strenght: 1000-2000 psf.
Soil Type E:	Soft soil; S-wave velocity < 600 ft/s; or more than 100 ft of soil with plasticity index > 20, water content > 40%, and undrained shear strenght < 500 psf.

CIVIL STRUCTURAL ENGINEER
REG. NO. 55251
PHILIPPINES

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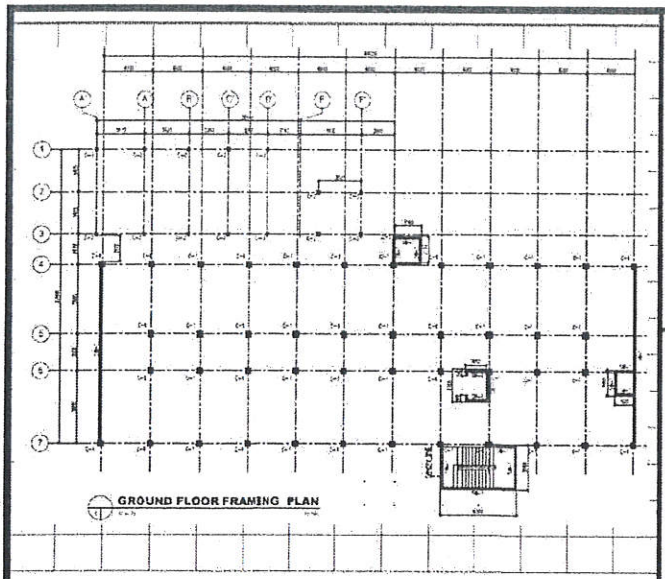
Epidemiology Bureau
Date: 10/16/2019

Rapid Visual Screening of Buildings for Potential Seismic Hazards

Source: FEMA-154 (Federal Emergency Management Agency)

Seismic Category: **VERY HIGH**



Scale:

Address: San Lazaro Compound, Sta. Cruz, Manila Zip

Other Identifiers:

No. of Stories: 4 Yr. Built

Screener: GBM Date: 3/6/2017

Total Floor Area (sq.m.): 2600

Building Name: Department of Health Building No. 19

Use: Government Office/ Laboratory Building

OCCUPANCY

( ) Assembly (Court, Gymnasium)

(✓) Standard (School, Office)

( ) Emergency Services (Hospital etc.)

Number of Persons: < 100 / 100 - < 1000 / 1000 & above

SOIL TYPE

C Dense Soil | D Stiff Soil | (E Soft Soil) | F Poor Soil

FALLING HAZARDS

☐ Unreinforced Chimneys ☐ Parapets ☐ Cladding ☐ Other: _____

BASIC SCORE, MODIFIERS, AND FINAL SCORE, S

	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)
Basic Score	2.8	3.0	3.2	2.8	2.0	2.5	(2.8)	1.6
Mid Rise (4 to 7 stories)	+0.2	+0.4	N/A	+0.4	+0.4	+0.4	(+0.4)	+0.2
High Rise (> 7 stories)	+0.6	+0.8	N/A	+0.8	+0.8	+0.6	+0.8	+0.3
Vertical irregularity	-1.0	-1.5	N/A	-1	-1	-1.5	(-1.0)	-1.0
Plan irregularity	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	(-0.5)	-0.5
Pre-Code	-1	-0.8	-0.6	-0.8	-0.2	-1.2	(-1)	-0.2
Post Benchmark	+1.4	+1.4	N/A	+1.6	N/A	+1.4	+2.4	N/A
Soil Type C	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
Soil Type D	-0.6	-0.6	-0.6	-0.6	-0.4	-0.6	-0.6	-0.4
Soil Type E	-1.2	-1.2	-1	-1.2	-0.8	-1.2	(-0.8)	-0.8
Soil Type F	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0

FINAL SCORE, S (-0.10)

COMMENTS

Detailed Evaluation Required YES / NO

*=Estimated, subjctive, or unreliable data

DNK = Do Not Know

BR = Braced Frame
FD = Flexible diaphragm
LM = Light Metal

MRF = Moment-resisting frame RC = Reinforced concrete diaphragm

SW = Shear wall
RD = Rigid
TU = Tilt up
URM INF = Unreinforced masonry infill

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Epidemiology Bureau
Date: 10/16/2019

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