

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



MCLL HIGHWAY, BRGY. DIVISORIA, ZAMBOANGA CITY, REGION IX

"DETAILED ENGINEERING PLAN" FOR

**REPAIR/MAINTENANCE OF DPWH BUILDING ZAMBOANGA CITY 2ND DEO BLDG
ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE II, MCLL HIGHWAY,
DIVISORIA, ZAMBOANGA CITY**

SUBMITTED :


ABRAHAM M. AQUINO
CHIEF, MAINTENANCE SECTION

DATE:

SUBMITTED AND RECOMMENDED :


ROBERTO DONDI F. STA. ELENA
ASSISTANT DISTRICT ENGINEER

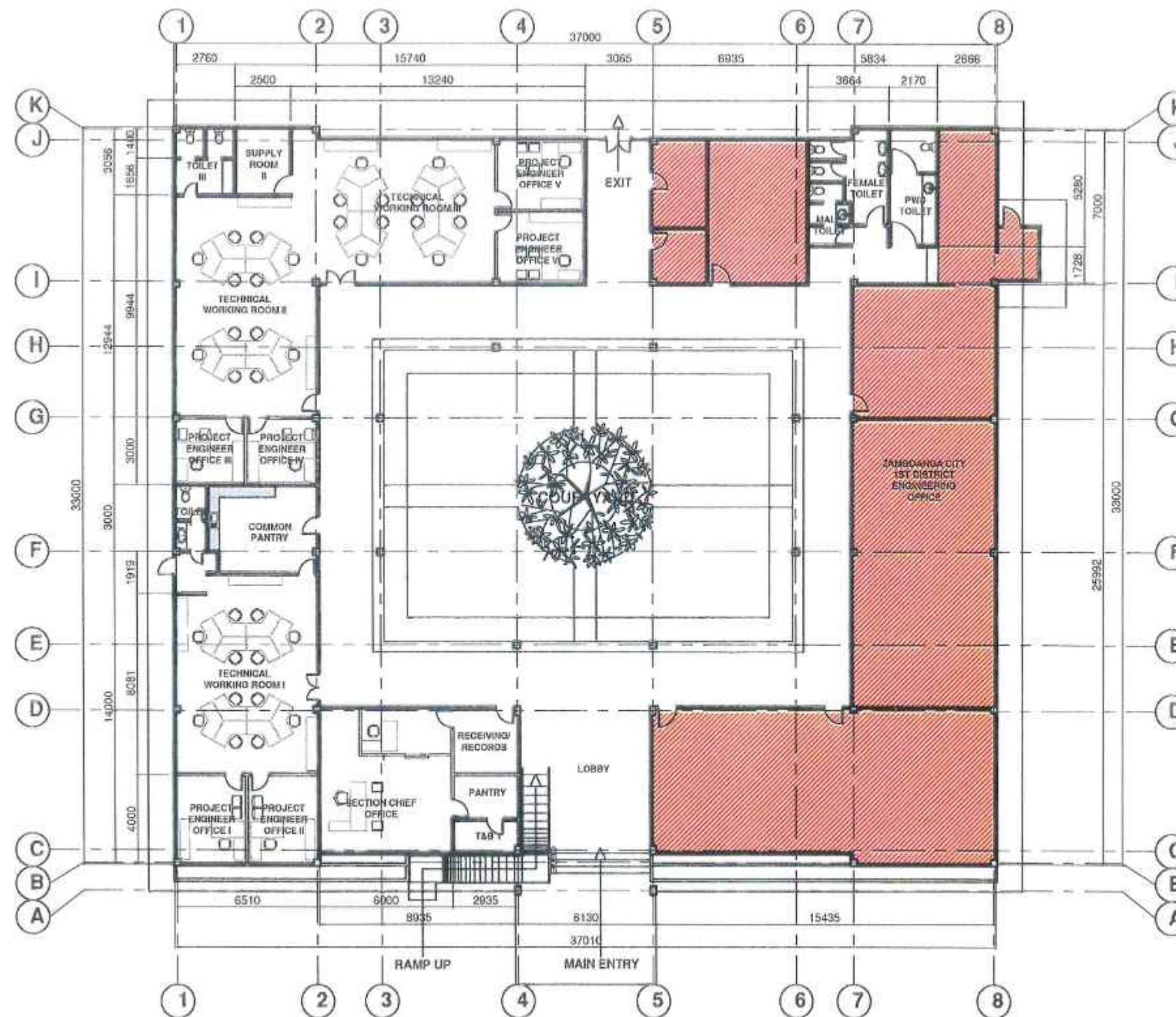
DATE:

APPROVED :


PILAR C. RIVERA
DISTRICT ENGINEER

DATE:

SET NO:	SRHT NO:
A	1



SCOPE OF WORK

ITEM NO. DESCRIPTION

PART B - OTHER GENERAL REQUIREMENTS

- B.5 PROJECT BILLBOARD
- B.7 (1) OCCUPATIONAL SAFETY AND HEALTH PROGRAM
- B.9 MOBILIZATION AND DEMOBILIZATION
- B.24 GENERAL SCAFFOLDING AND SHORING

PART C - EARTHWORKS

- C01 (1) REMOVAL OF STRUCTURES AND OBSTRUCTION

PART D - REINFORCED CONCRETE

- D00 STRUCTURAL CONCRETE
- D02 (1) REINFORCED STEEL CONCRETE
- D03 STRUCTURES GRADE 40

PART E - FINISHING AND OTHER CIVIL WORKS

- E002 (5) PLUMBING FIXTURES
- E003 (1) 4.5MM FIBER CEMENT BOARD IN METAL FRAME CEILING
- E003 (4) CABINETS
- E007 ALUMINUM GLASS DOOR (SWING TYPE)
- E008 ALUMINUM GLASS WINDOW (SLIDING AND FIXED)
- E018 (1) GLAZED TILES AND TRIMS
- E018 GRANITE TILES
- E027 (1) CEMENT PLASTER FINISH
- E032 (1) PAINTING WORKS CEILING
- E046 100MM CBR NON LOAD BEARING (INCLUDING REINFORCING STEEL)
- E101 (1) ELECTRIC WIRE, 2.0MM2 THIN
- E103 (1) LIGHTING FIXTURES AND LAMPS
- E106 (1) REPAIR / REPLACEMENT OF CONDUITS/PIPES, BOXES, FITTINGS (CONDUIT WORKS THROUGH)

4 EXISTING FLOOR PLAN
SCALE: 1:150 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBOANGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MCLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY, REGION IX

PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR
REPAIR MAINTENANCE OF DAMAGED BUILDING ZAMBOANGA CITY 2ND DISTRICT
ALDO ADMINISTRATIVE BUILDING (CONSTRUCTION SECOND PHASE)
MCLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY
PROJECT LOCATION: MCCL HIGHWAY, ZAMBOANGA CITY

SHEET CONTENTS
EXISTING FLOOR PLAN

DRAFTED BY: JAYCEBELLA C. GARCIA
DATE: 02/12/2019

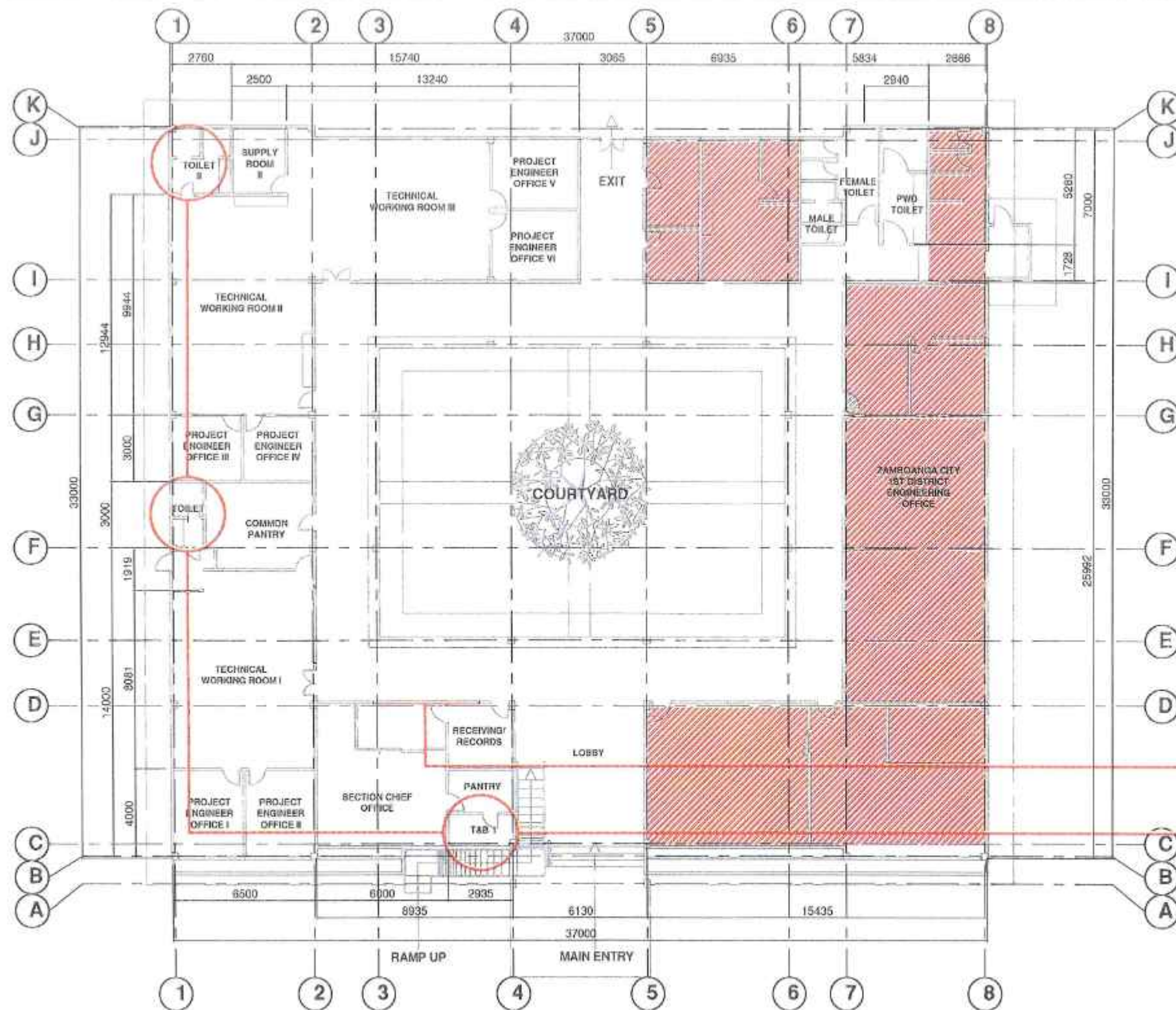
REVIEWED BY: [Signature]
DATE: 02/12/2019

SUBMITTED BY: [Signature]
DATE: 02/12/2019

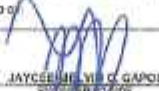
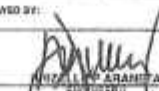
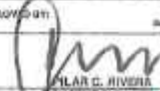
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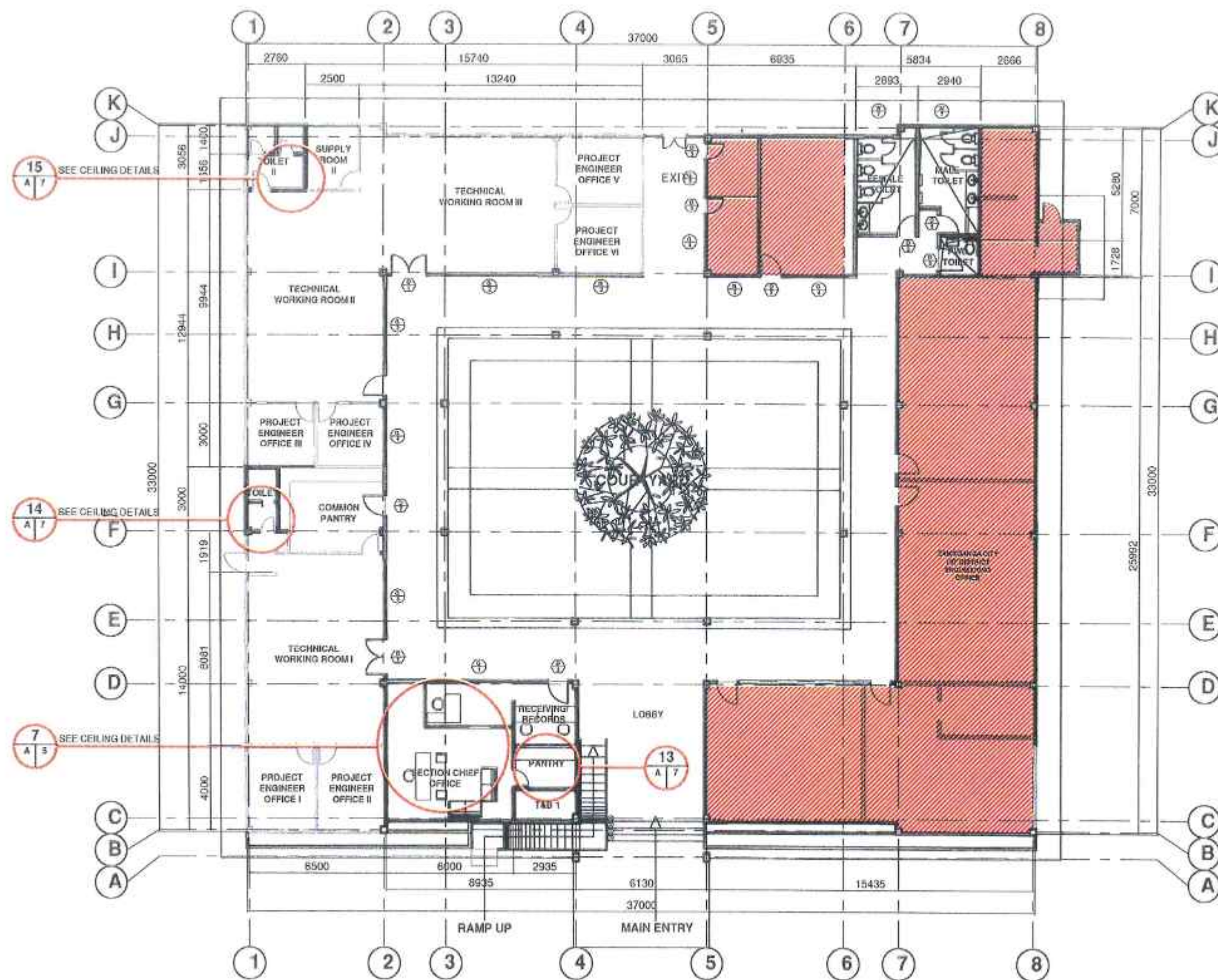
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DATE: 02/12/2019

SCT NO. A
SHEET NO. 2
02/12/19

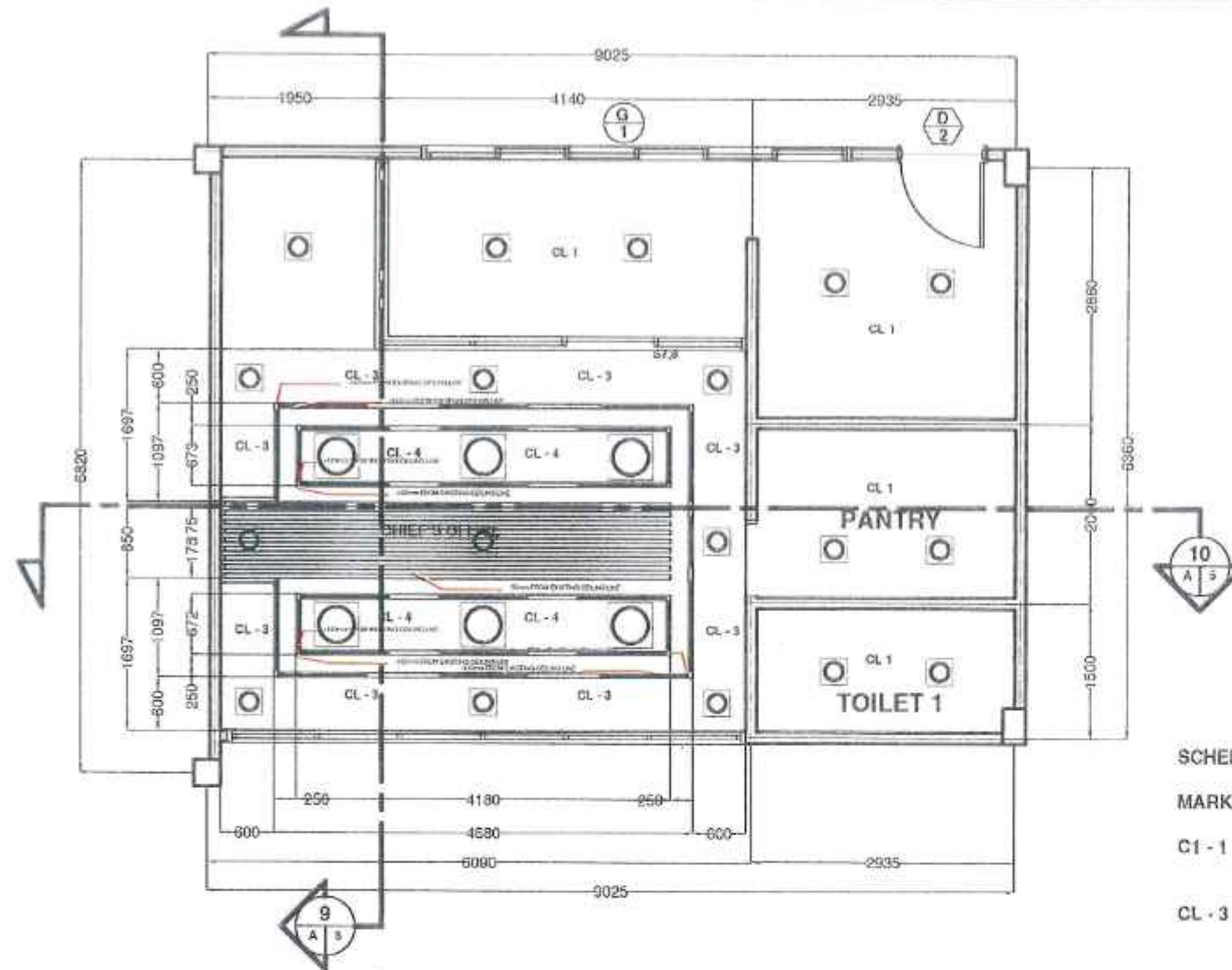


5 DEMOLITION PLAN
 A 3 SCALE: 1:200 METERS

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBOANGA CITY 2ND DISTRICT ENGINEERING OFFICE HOLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY, REGION IX	PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR REPAIR/MAINTENANCE OF DPWH BUILDING ZAMBOANGA CITY 2ND DISTRICT 8000 ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION PHASE I, HOLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY PROJECT LOCATION: SRG. DIVISORIA, ZAMBOANGA CITY	SHEET CONTENTS DEMOLITION PLAN	DRAFTED BY:  JAYCE R. VILLALVA DATE: _____	REVIEWED BY:  MARIBEL C. ARANDA DATE: _____	SUBMITTED BY:  MARIBEL C. ARANDA DATE: _____	RECOMMENDED BY:  ROBERTO BONIFACIO, P.E. 2ND DISTRICT ENGINEER DATE: _____	APPROVED BY:  ALAR C. RIVERA DISTRICT ENGINEER DATE: _____	SHEET NO.: A 3 03/12/19
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 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBOANGA CITY 2ND DISTRICT ENGINEERING OFFICE MCCL HIGHWAY, DIVISORIA, ZAMBOANGA CITY, REGION IX	PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR REPAIR/MAINTENANCE OF 0.7KM BAYBAY ZAMBOANGA CITY AND DIO BLVD ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE II, MCCL HIGHWAY, DIVISORIA, ZAMBOANGA CITY PROJECT LOCATION: BAYBAY, BRIGIDA, ZAMBOANGA CITY	SHEET CONTENTS: PROPOSED FLOOR PLAN	DRAWN BY: JAYCEE D. DELA CRUZ DATE: 03/12/19	REVIEWED BY: RIZELLA Y. RAMOS DATE: 03/12/19	SUBMITTED BY: HERALDO B. AQUINO DATE: 03/12/19	RECOMMENDED BY: ROBERTO GONDI Y. STA. ELENA DATE: 03/12/19	APPROVED BY: JULIAN C. RIVERA DATE: 03/12/19	SHEET NO.: A SHEET NO.: 4
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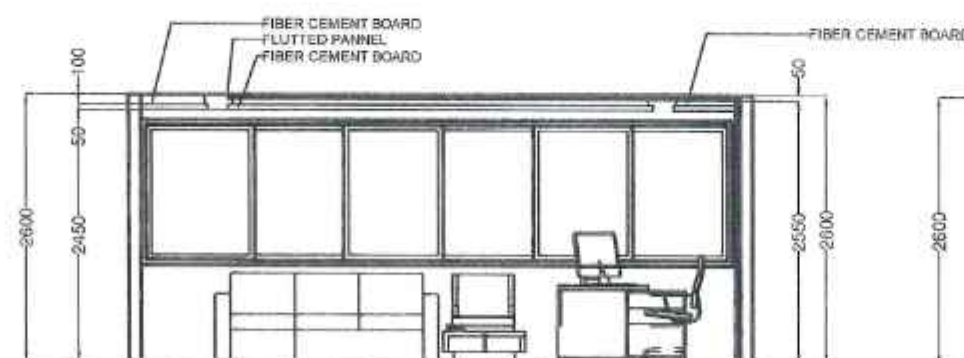
7 REFLECTED CEILING PLAN AT CHIEF'S OFFICE
SCALE: 1:50 METERS



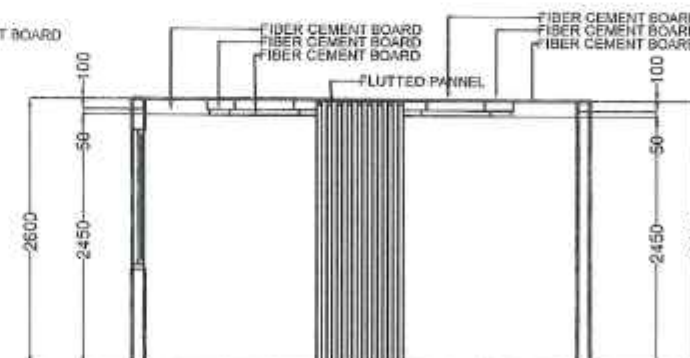
8 INTERIOR PERSPECTIVE
SCALE: 1:50 METERS

SCHEDULE OF FINISHES

MARKS	DESCRIPTIONS	REMARKS
CL - 1	4.5 MM THK. FIBER CEMENT CEILING BOARD WITH PAINTED FINISH	ALL EXISTING CEILINGS AND LIGHTING FIXTURES MUST BE CAREFULLY REMOVED AND BE REPLACED BY FIBER CEMENT BOARDS ON METAL FRAMING SYSTEM
CL - 3	4.5MM THK. FIBER CEMENT CEILING BOARD WITH PAINTED FINISH - 190MM FROM EXISTING CEILING HEIGHT	
CL - 4	4.5MM THK. FIBER CEMENT CEILING BOARD WITH PAINTED FINISH - 190MM FROM EXISTING CEILING HEIGHT	



9 SECTION THRU X - X'
SCALE: 1:50 METERS



10 SECTION THRU Y - Y'
SCALE: 1:50 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MOLLO HIGHWAY, OMBISORIA, ZAMBONGA CITY, REGION IX

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF OPAN BUILDING ZAMBONGA CITY 2ND DISTRICT
LOCAL ADMINISTRATION, INCLUDING CONSTRUCTION SECTION PHASE 1
MOLLO HIGHWAY, OMBISORIA, ZAMBONGA CITY

SHEET CONTENTS
REFLECTED CEILING PLAN

DRAWN BY:
JAYCEE M. C. BACAL
DATE:

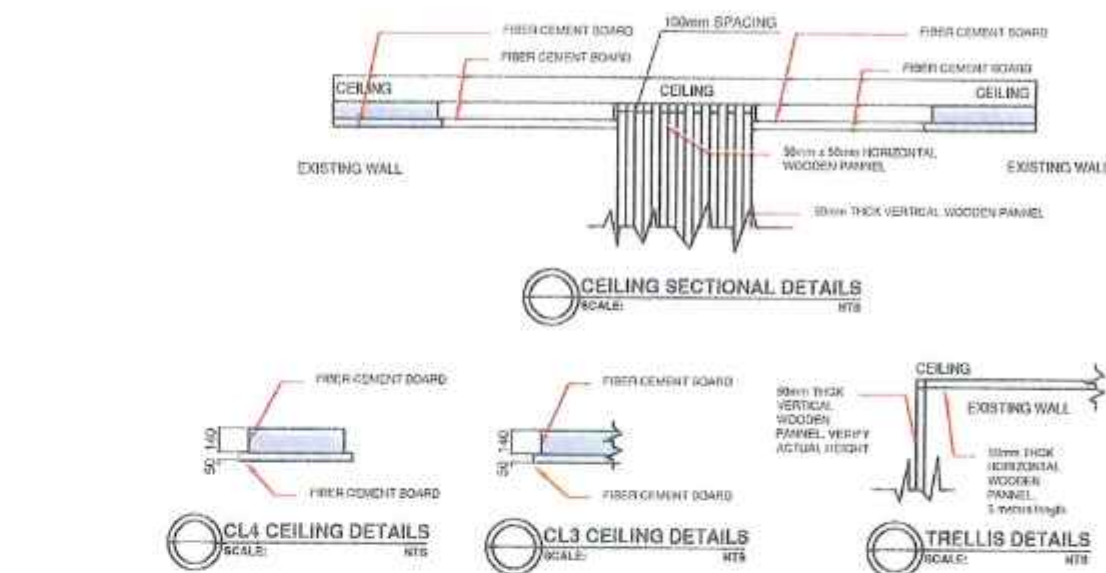
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[Signature]
DATE:

APPROVED BY:
[Signature]
DATE:

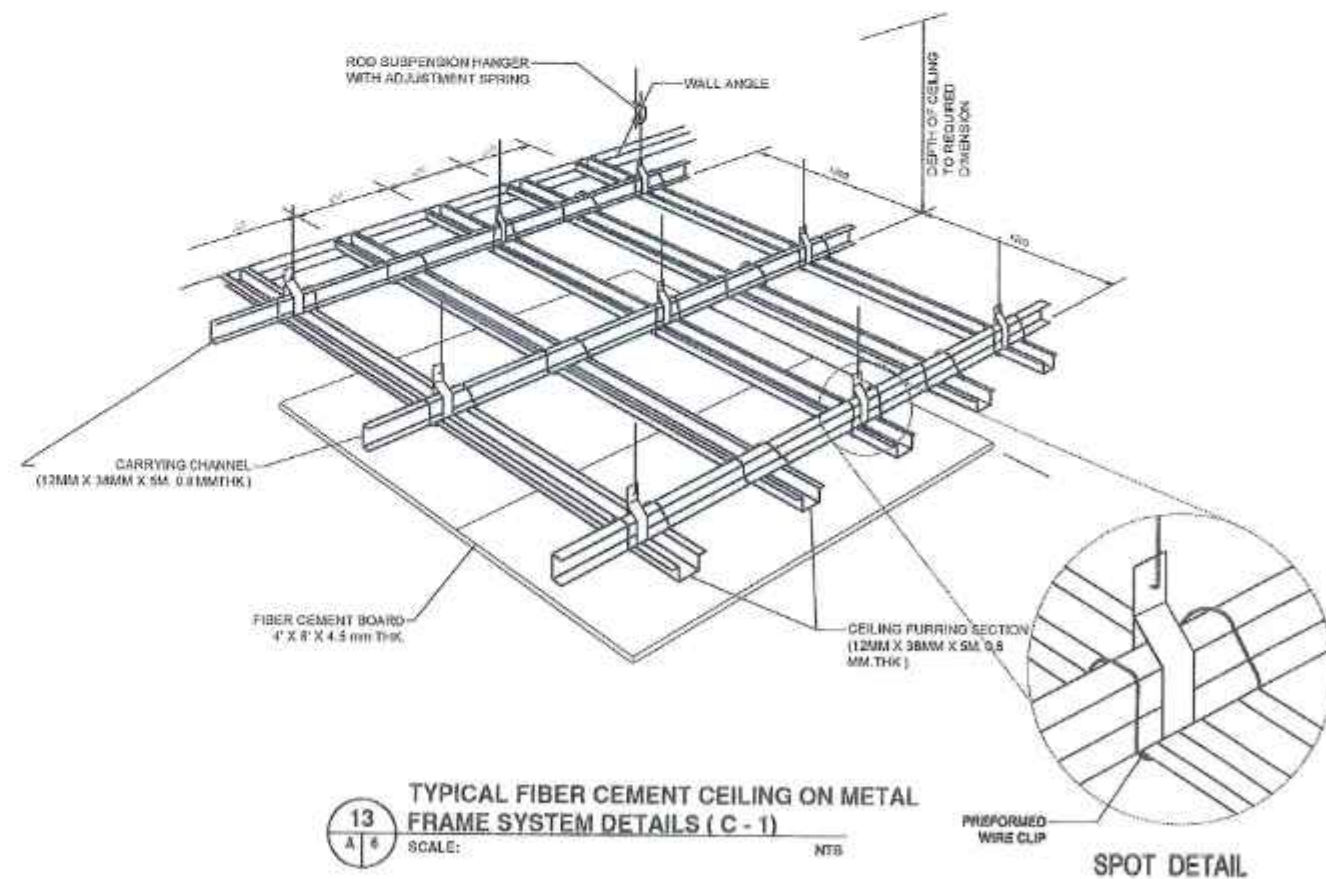
RECOMMENDED BY:
[Signature]
DATE:

APPROVED BY:
[Signature]
DATE:

SHEET NO:
A
5
19



11 CEILING DETAILS AT CHIEF'S OFFICE
A 6 SCALE: NTS



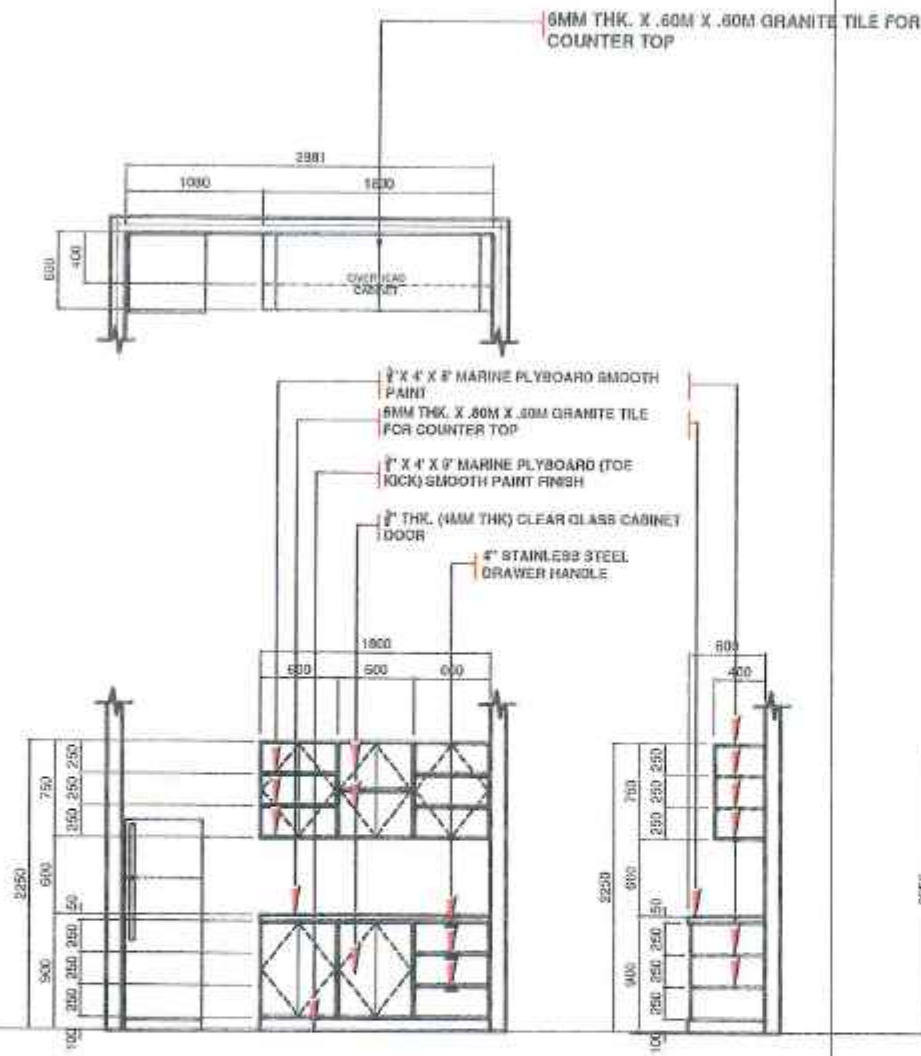
13
A 6

TYPICAL FIBER CEMENT CEILING ON METAL
FRAME SYSTEM DETAILS (C - 1)

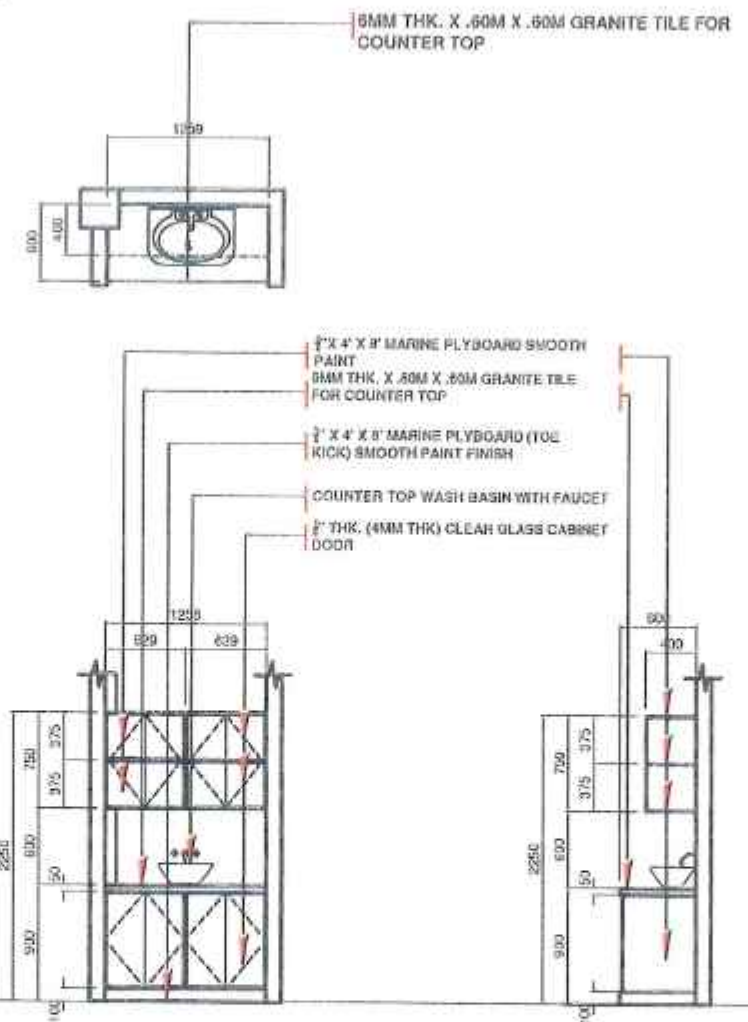
SCALE: _____

NTB

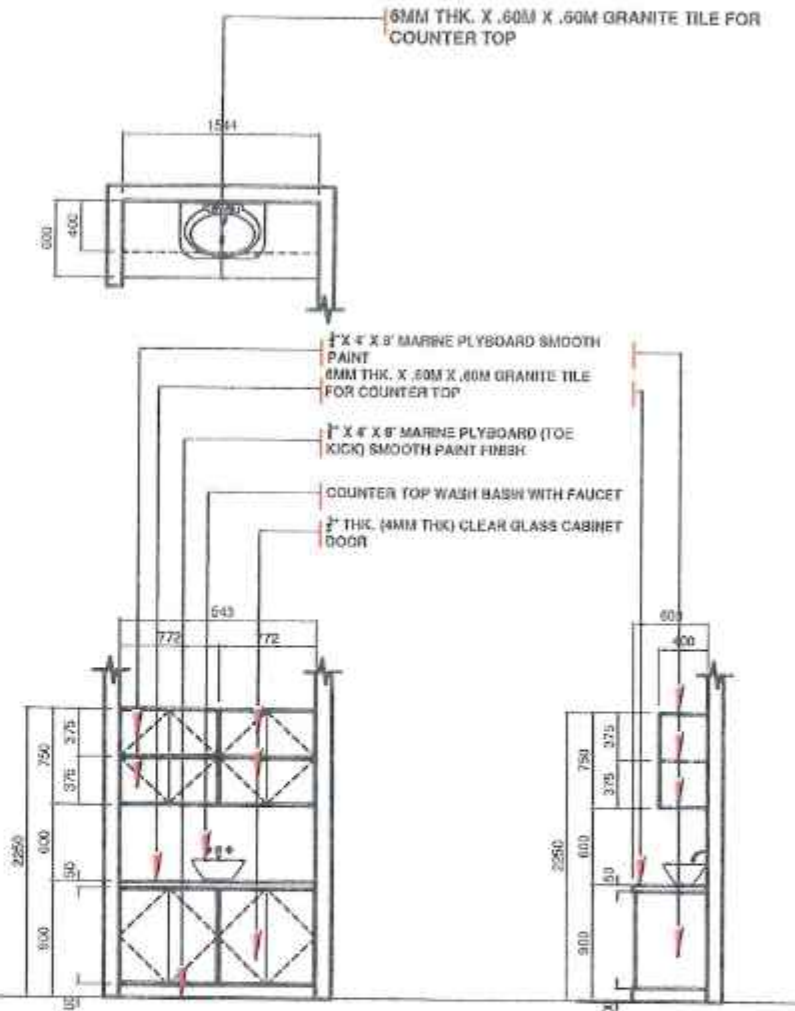
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBONGA CITY 2ND DISTRICT ENGINEERING OFFICE MCIL HIGHWAY, OMBONGRA, ZAMBONGA CITY, REGION XI	PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR REPAIR/MAINTENANCE OF SPAN BUILDING ZAMBONGA CITY OMBONGRA BLDG ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE B, MCIL HIGHWAY, OMBONGRA, ZAMBONGA CITY	DIRECT CONTENTS: REFLECTED CULVERT PLAN	DRAFTED BY: JAYCEME LINTA, CAPOL DATE: 11/11/2019	REVIEWED BY: RODRIGO L. ARANETA, ENGR (SR) DATE: 11/11/2019	SUBMITTED BY: JERIMAMBA L. AQUINO ENGR, MAINTENANCE SECTION DATE: 11/11/2019	RECOMMENDED BY: ROBERTO L. MARICETA, CIVIL ENGR ASST. DIV. CHIEF, ZAMCER DATE: 11/11/2019	APPROVED BY: PEARL C. RIVERA DISTRICT ENGINEER DATE: 11/11/2019	SET NO.: A 6/12	SHEET NO.: 6 19
	PROJECT LOCATION: 300Y, OMBONGRA, ZAMBONGA CITY								



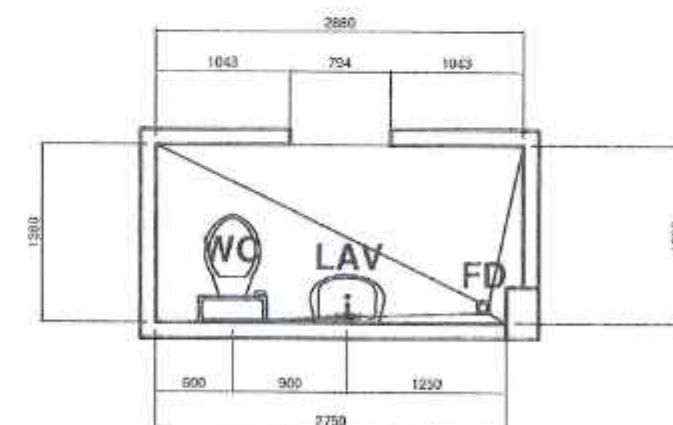
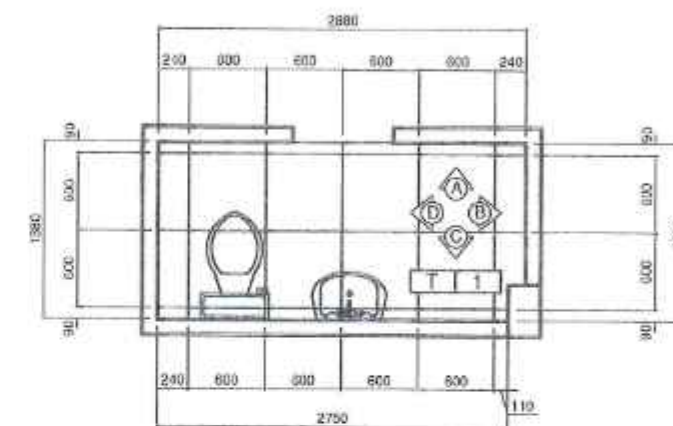
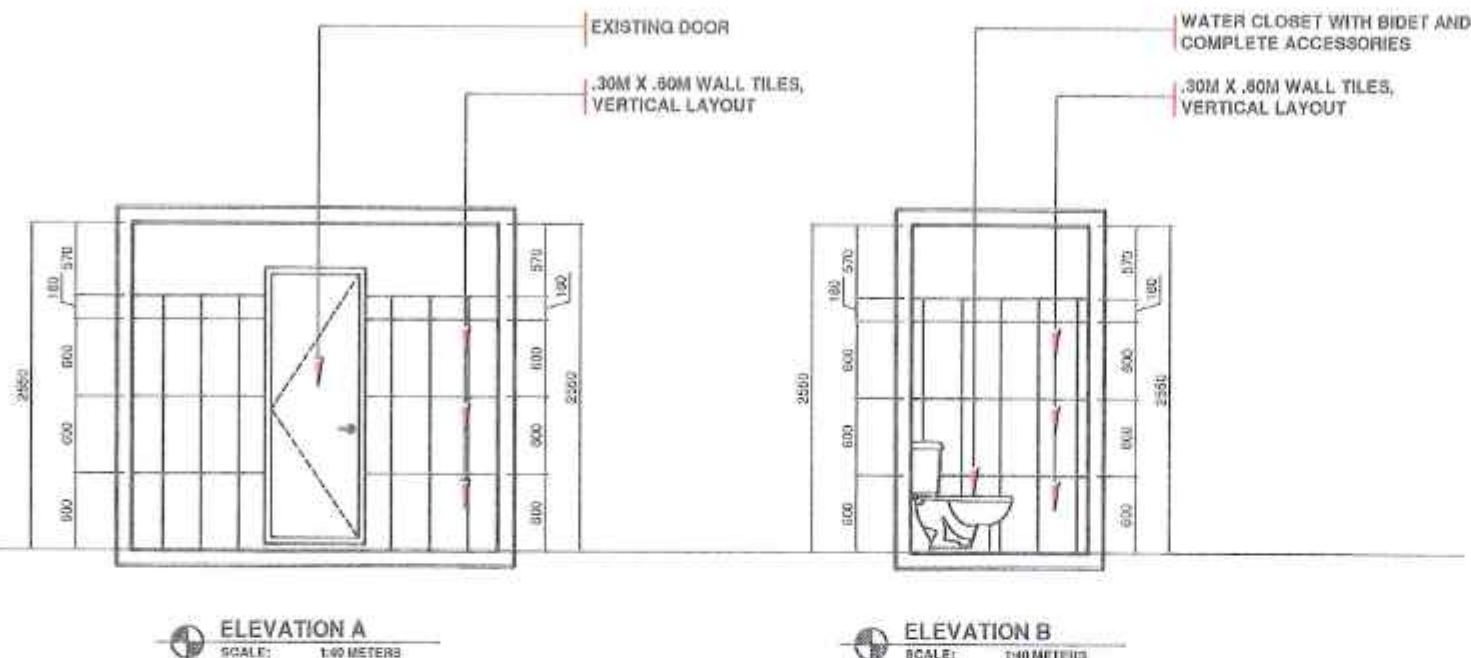
13 OVERHANG CABINET AND COUNTERTOP DETAILS
AT CHIEF'S OFFICE
SCALE: 1:30 METERS



14 OVERHANG CABINET AND COUNTERTOP DETAILS
AT TOILET II
SCALE: 1:30 METERS



15 OVERHANG CABINET AND COUNTERTOP DETAILS
AT TOILET III
SCALE: 1:30 METERS



NOTE:

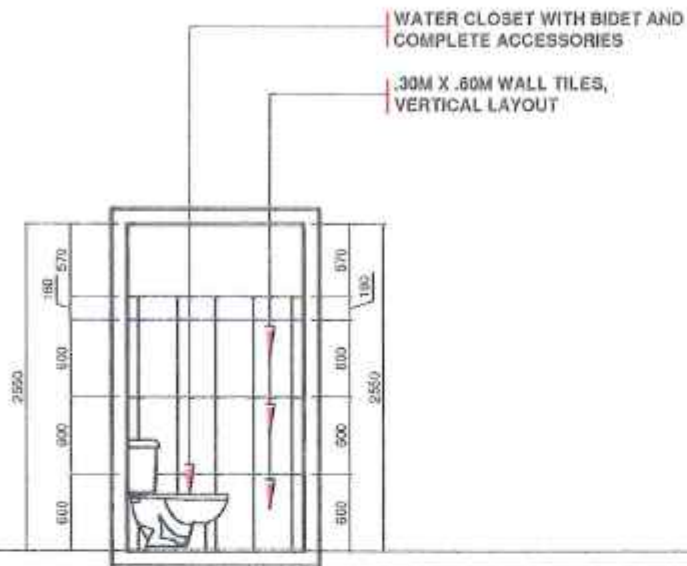
- ALL WALL AND FLOOR TILES SHALL CONFORM TO THE SIZE AS SPECIFIED IN THE DETAILED PLAN AND SHALL BE PROPERLY INSTALLED WITH QUALITY ADHESIVE MATERIAL.
- ALL FLOOR SHALL BE WITH 1% SLOPE TO FLOOR DRAIN.
- ALL FIXTURES AND OTHER TOILET ACCESSORIES SHALL BE INSTALLED PROPERLY AND MUST BE FUNCTIONAL.

LEGEND:

300mm x 600mm
UNGLAZED NON-SLIPPED TILES

17 TOILET | INTERIOR ELEVATIONS
SCALE: 1:30 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBOANGA CITY 2ND DISTRICT ENGINEERING OFFICE NCLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY, REGION IX	PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR REPAIR/MAINTENANCE OF 8PM BULWAGA ZAMBOANGA CITY AND 800 800 ADMINISTRATIVE BUILDING CONSTRUCTION SECTION PHASE 4 NCLL HIGHWAY, DIVISORIA, ZAMBOANGA CITY PROJECT LOCATION: 800, DIVISORIA, ZAMBOANGA CITY	SHEET CONTENTS: TOILET DETAILS TOILET INTERIOR ELEVATIONS	DESIGNED BY: JAYCEE M. VILLARDO DATE: _____	REVIEWED BY: [Signature] DATE: _____	SUBMITTED BY: [Signature] DATE: _____	RECOMMENDED BY: [Signature] DATE: _____	APPROVED BY: [Signature] DATE: _____	SHEET NO.: A 8 12 19
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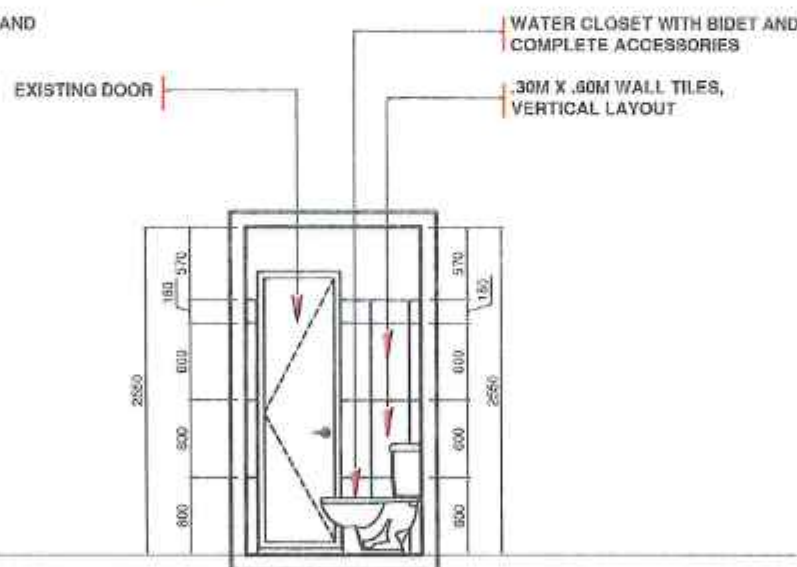
ELEVATION A
SCALE: 1:40 METERS



ELEVATION B
SCALE: 1:40 METERS



ELEVATION D
SCALE: 1:40 METERS



ELEVATION C
SCALE: 1:40 METERS

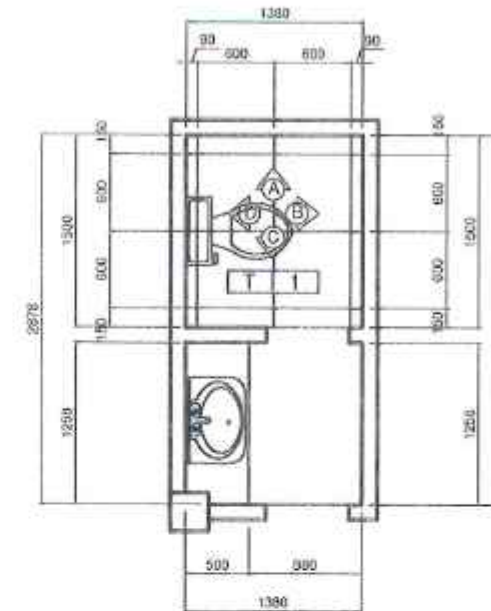
NOTE:

- ALL WALL AND FLOOR TILES SHALL CONFORM TO THE SIZE AS SPECIFIED IN THE DETAILED PLAN AND SHALL BE PROPERLY INSTALLED WITH QUALITY ADHESIVE MATERIAL.
- ALL FLOOR SHALL BE WITH 1% SLOPE TO FLOOR DRAIN.
- ALL FIXTURES AND OTHER TOILET ACCESSORIES SHALL BE INSTALLED PROPERLY AND MUST BE FUNCTIONAL.

LEGEND:

600mm x 600mm
UNGLAZED NON-SLIPPED TILES

19 TOILET II INTERIOR ELEVATIONS
SCALE: 1:40 METERS



18 TOILET II PLAN
SCALE: 1:30 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MCL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF SPAN BUILDING ZAMBONGA CITY 2ND DISTRICT
BLDG ADMINISTRATIVE BUILDING CONSTRUCTION SECTION PHASE A,
MCL HIGHWAY, DIVISORIA, ZAMBONGA CITY

PROJECT LOCATION: SRVY. SUBSIDIARY, EDUWANGA CITY

SHEET CONTENTS:
TOILET II DETAILS
TOILET II INTERIOR ELEVATIONS

DRAWN BY:
JAYCEMARINO, CAPOL
DATE:

REVISED BY:
RUBEN LEONARDO
DATE:

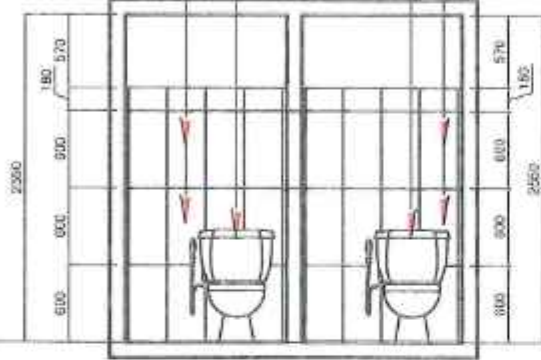
SUBMITTED BY:
ANDREW H. AGUIRRE
DATE:

RECOMMENDED BY:
ANDREW H. AGUIRRE
DATE:

APPROVED BY:
PLAR C. RIVERA
DATE:

SHEET NO.
A 9
12 19

WATER CLOSET WITH
BIDET AND COMPLETE
ACCESSORIES
.30M X .60M WALL
TILES, VERTICAL
LAYOUT



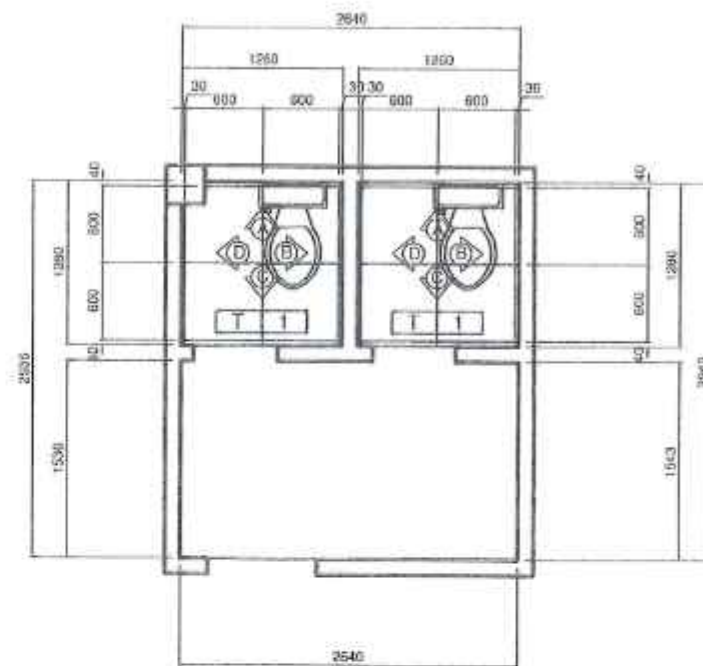
ELEVATION A
SCALE: 1:40 METERS

WATER CLOSET WITH BIDET AND
COMPLETE ACCESSORIES
.30M X .60M WALL TILES,
VERTICAL LAYOUT



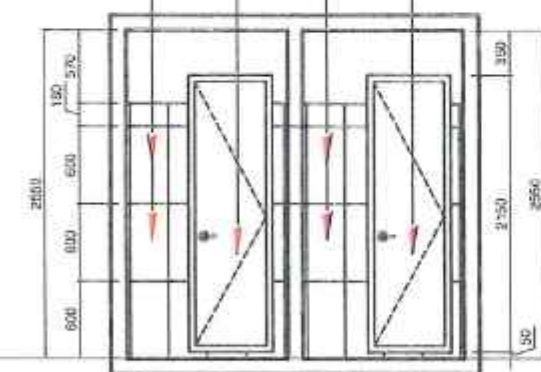
ELEVATION B
SCALE: 1:40 METERS

WATER CLOSET WITH BIDET AND
COMPLETE ACCESSORIES
.30M X .60M WALL TILES,
VERTICAL LAYOUT
EXISTING DOOR



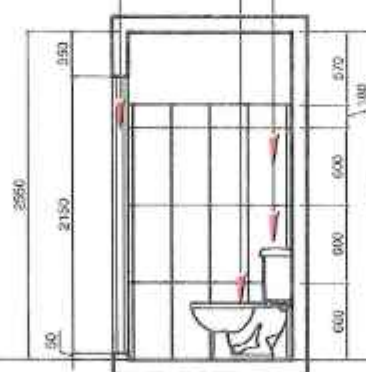
20 TOILET III PLAN
SCALE: 1:50 METERS

EXISTING DOOR
.30M X .60M WALL
TILES, VERTICAL
LAYOUT



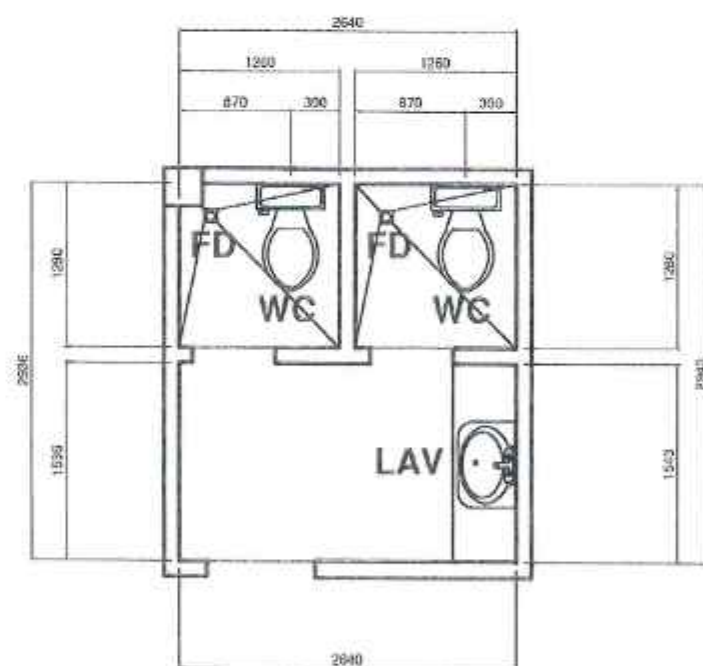
ELEVATION C
SCALE: 1:40 METERS

.30M X .60M WALL TILES,
VERTICAL LAYOUT
EXISTING DOOR



ELEVATION D
SCALE: 1:40 METERS

WATER CLOSET WITH BIDET AND
COMPLETE ACCESSORIES
.30M X .60M WALL TILES,
VERTICAL LAYOUT



NOTE:
- ALL WALL AND FLOOR TILES SHALL CONFORM TO THE SIZE
AS SPECIFIED IN THE DETAILED PLAN AND SHALL BE
PROPERLY INSTALLED WITH QUALITY ADHESIVE MATERIAL.
- ALL FLOOR SHALL BE WITH 1% SLOPE TO FLOOR DRAIN
- ALL FIXTURES AND OTHER TOILET ACCESSORIES SHALL BE
INSTALLED PROPERLY AND MUST BE FUNCTIONAL.

LEGEND:
600mm x 600mm
UNGLAZED NON-SLIPPED TILES.

21 TOILET III INTERIOR ELEVATIONS
SCALE: 1:50 METERS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MCC, HIGHWAY DIVISION, ZAMBONGA CITY, REGION 12

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF UPAN BUILDING ZAMBONGA CITY 2ND DISTRICT
BLDG ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE 2
WELL HIGHWAY, BANGGOL, ZAMBONGA CITY
PROJECT LOCATION: BRGT, DAVAO, ZAMBONGA CITY

SHEET CONTENTS:
TOILET III DETAILS
TOILET III INTERIOR ELEVATIONS

DRAWN BY:
JAYCEE M. R. RAOPO
DATE:

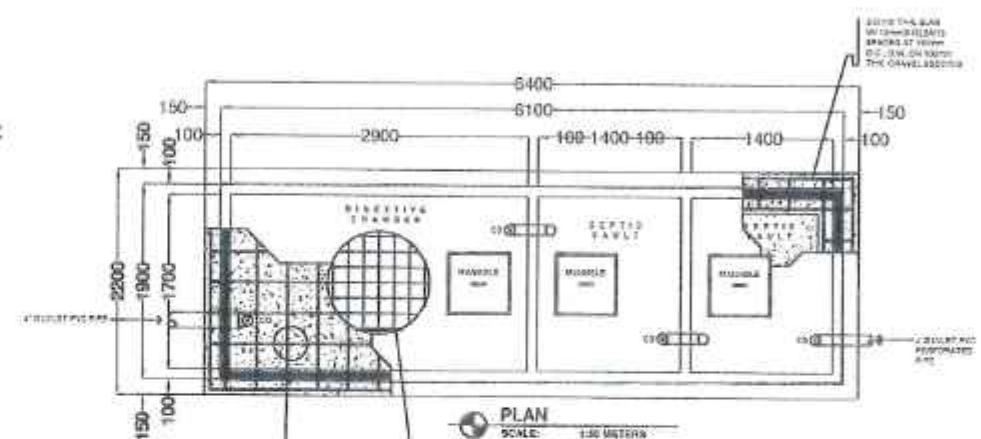
DESIGNED BY:
RECELESTY ARANES
DATE:

SUBMITTED BY:
SERAFIM M. AGUIRRE
DATE:

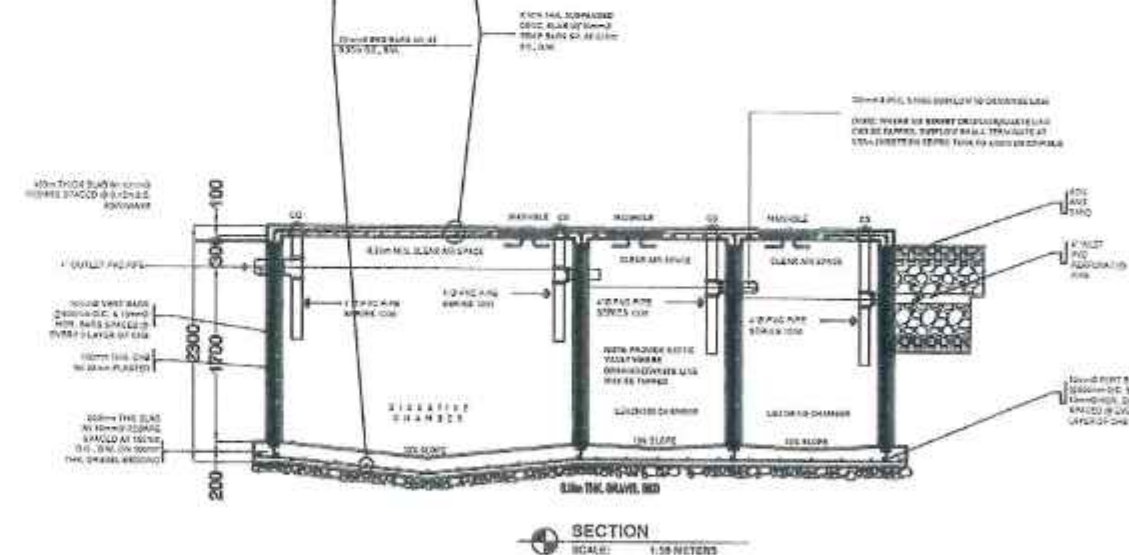
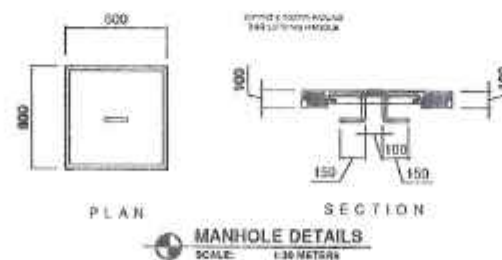
REVIEWED BY:
ROBERTO TORRES P. STA. ELENA
DATE:

APPROVED BY:
PILAR C. RIVERA
DATE:

SHEET NO.:
10
SHEET NO.:
19

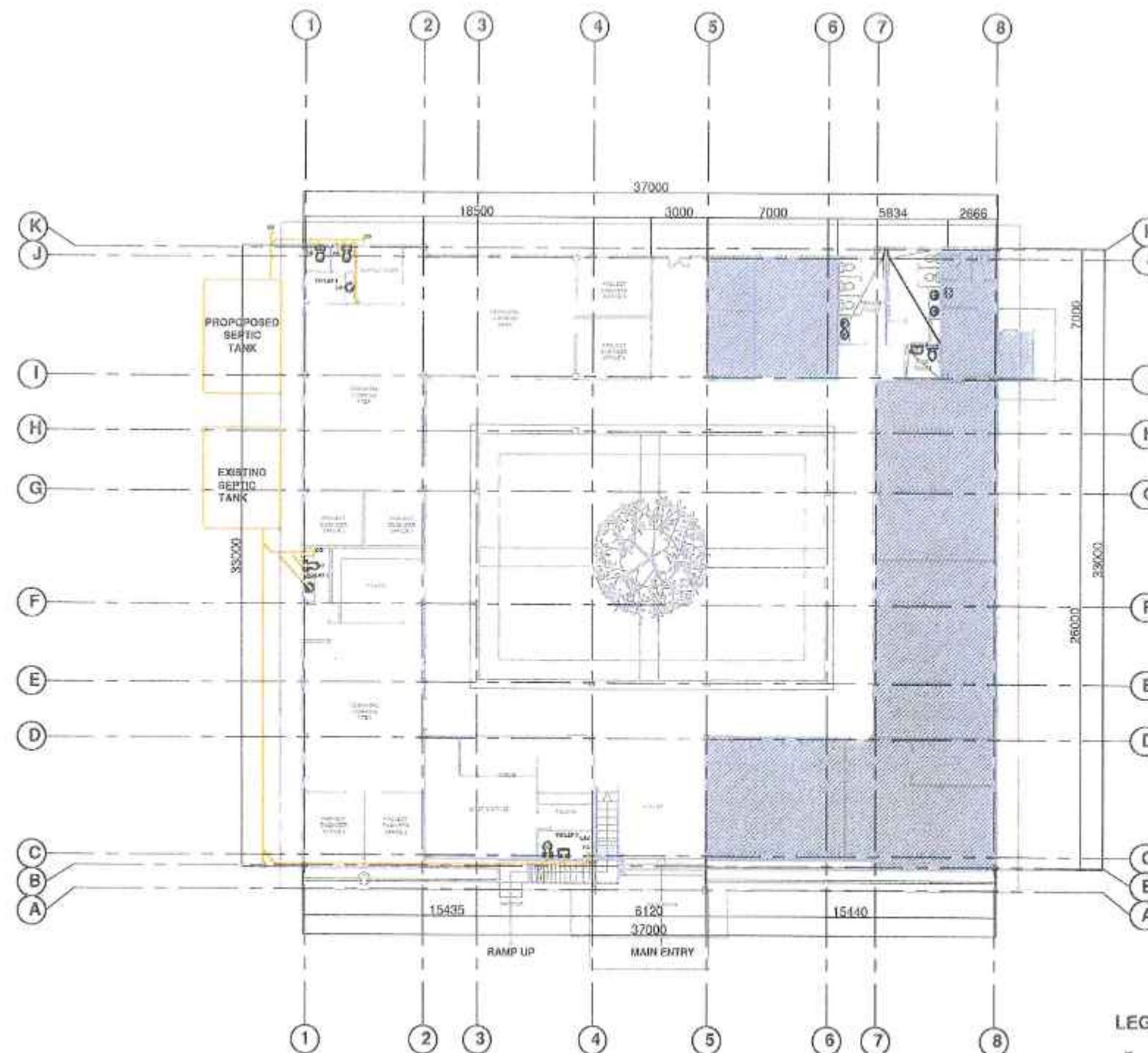


1. ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINES PLUMBING CODE, THE NATIONAL PLUMBING CODE, & THE RULES & REGULATIONS OF THE LOCAL MUNICIPALITY.
2. READ THE DRAWING IN CONNECTION WITH OTHER RELATED DRAWING & SPECIFICATION. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION DEPTH & INVERT DISCREPANCY OF ALL EXISTING PIPE & STRUCTURES TO CONFORM WITH THE PROPOSED SANITARY UTILITIES.
4. THE LOCATION OF PIPES CAN BE TRANSFERRED WHENEVER REQUIRED FOR PROPER EXECUTION OF OTHER TRADES OR CONDITION THAT SUCH CHANGES OF LOCATIONS MEET THE REQUIREMENTS.
5. ALL SLOPES FOR HORIZONTAL BRANCHES SHALL MAINTAIN 1 - $\frac{1}{8}$ " AS MINIMUM UNLESS NOTED OTHERWISE.
6. UNLESS OTHERWISE INDICATED ALL FIXTURES SHALL BE VENTED.
7. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
8. ALL G.I. PIPES OTHER PLUMBING FITTINGS SHALL BE CAROLINE COATED, UNDERGROUND OR IMBEDDED ON CONCRETE.
9. UNLESS OTHERWISE SPECIFIED, ALL DOWNSPOUT SHALL BE PVC.
10. UNLESS OTHERWISE SPECIFIED, ALL SEWER & VENT PIPES SHALL BE PVC PIPES.
11. ALL FLOOR DRAIN SHALL BE 4" PVC IN GOOD QUALITY.
12. PROVIDE CLEAN OUT @ EVERY 15.00M HORIZONTAL RUN AS INDICATED IN THE PLAN.
13. ALL WATER SUPPLY LINE FROM MAIN WATER LINE SHALL HAVE INDIVIDUAL CONTROL GATE VALVE.
14. ALL SEWER PIPE MUST BE TAPPED TO THE EXISTING SEPTIC VAULT.
15. USE 3"Ø PVC PIPE S - 1000 FOR VENTILATION.
16. USE 4"Ø PVC PIPE S - 1000 FOR SANITARY.
17. USE 1/2 Ø PPR PIPE PN-20 FOR WATER SUPPLY.
18. USE 1000 LITERS ALUMINUM TANK FOR WATER SUPPLY.
19. IN EVERY WATER CLOSET, LAVATORY AND SINK MUST PROVIDE 3"Ø PVC S-1000 PIPE FOR VENTILATION.



NOTE:
1.9' WIDTH CLEAR SEPTIC VAULT
1.7' DEPTH OF WATER
1.4' CLEAR LEACHING CHAMBER
TOTAL LENGTH = 6.1M
TOTAL WIDTH = 1.9M

1:50



NOTE :

FULLY REHABILITATE EXISTING SEWER AND COLD WATER LINE. REPLACE EXISTING PLUMBING FIXTURES AS SPECIFIED (SEEK FOR END USER'S APPROVAL).

REPLACE EXISTING WALL WITH 150MM CHB FULLY FURNISHED UPON COMPLETION OF COMFORT ROOMS' REHABILITATION.

4 SANITARY LAYOUT
SCALE: 1:200 METERS

LEGENDS AND SYMBOLS

F	FAUCET	HB	HOSE BIB
FD	FLOOR DRAIN	ST	SEPTIC TANK
CO	CLEAN OUT	VTC	VENT THRU CEILING
WC	WATER CLOSET	BI	BIDET
UR	URINAL		SANITARY LINE
LAV	LAVATORY		WATER LINE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MOLL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF DPWH BUILDING ZAMBONGA CITY AND BDO
BDO ADMINISTRATIVE BLDG DIVISION CONSTRUCTION SECTION PHASE 1
MOLL HIGHWAY, DIVISORIA, ZAMBONGA CITY
PROJECT LOCATION: BDO, DIVISORIA, ZAMBONGA CITY

SHEET CONTENTS
SANITARY LAYOUT

DRAWN BY:
JAYDEE MILYON CAMPOL
DATE:

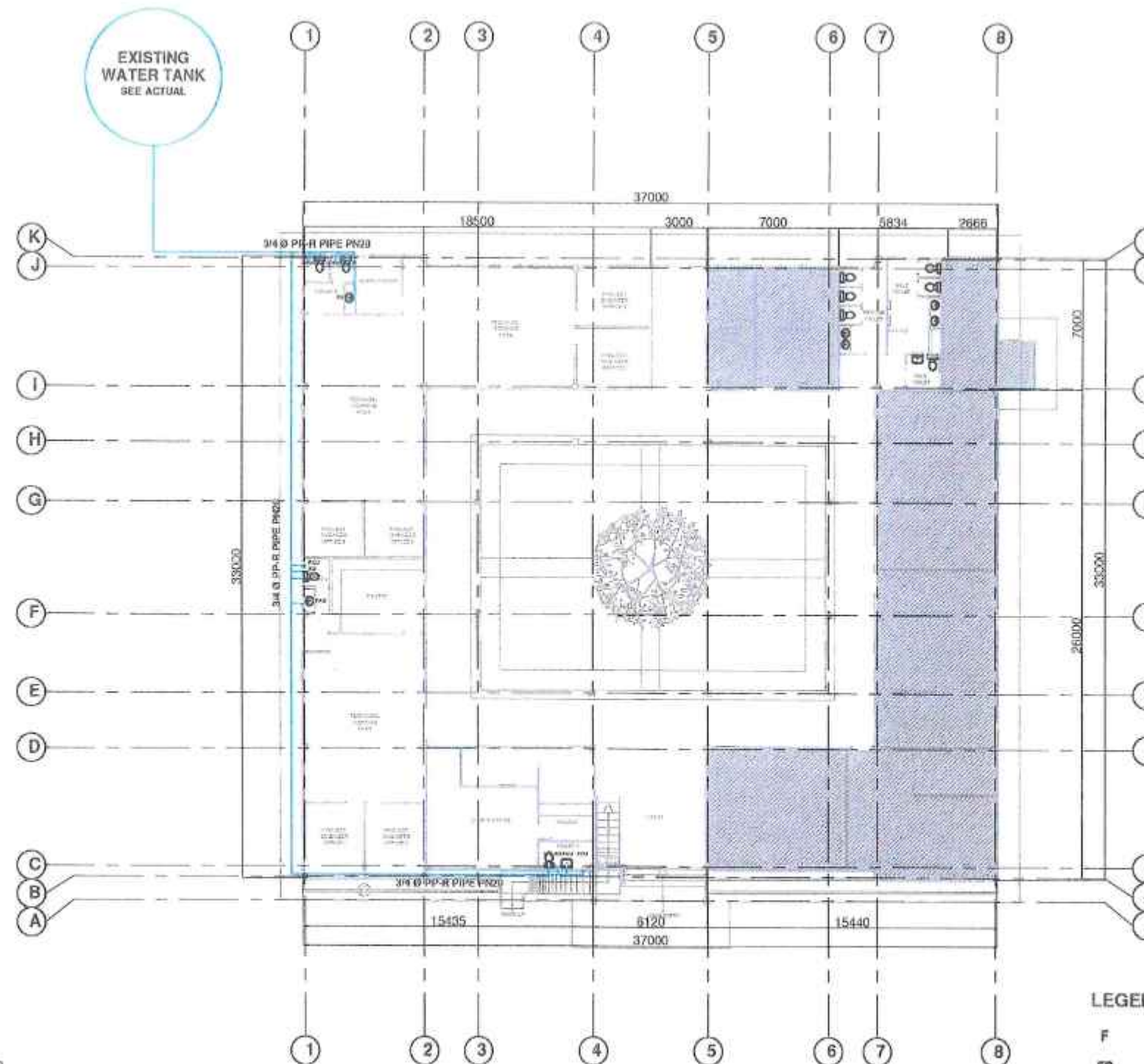
REVIEWED BY:
JAYDEE MILYON CAMPOL
DATE:

SUBMITTED BY:
ABRAHAM M. AQUINO
DATE:

RECOMMENDED BY:
ROBERTO DOMINIC P. P. P. P.
DATE:

APPROVED BY:
JULIAN C. JIVIRA
DATE:

SHEET NO.:
S 12
19



NOTE :

FULLY REHABILITATE EXISTING SEWER AND COLD WATER LINE. REPLACE EXISTING PLUMBING FIXTURES AS SPECIFIED (SEEK FOR END USER'S APPROVAL).

REPLACE EXISTING WALL WITH 150MM CHB FULLY FURNISHED UPON COMPLETION OF COMFORT ROOMS' REHABILITATION.

5 WATERLINE LAYOUT
SCALE: 1:200 METERS

LEGENDS AND SYMBOLS

F	FAUCET	HB	HOSE BIB
FD	FLOOR DRAIN	ST	SEPTIC TANK
CO	CLEAN OUT	VTC	VENT THRU CEILING
WC	WATER CLOSET	BI	BIOET
UR	URINAL		SANITARY LINE
LAV	LAVATORY		WATER LINE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MCCL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX

PROJECT TITLE:
"DETAILS ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF SPAN BUILDING ZAMBONGA CITY 2ND DISTRICT
BLOOD ADMINISTRATION BUILDING (CONSTRUCTION SECTION PHASE),
MCCL HIGHWAY, DIVISORIA, ZAMBONGA CITY

SHEET COMMENTS
WATERLINE LAYOUT

DRAFTED BY:
JAYCEE M. VILLAS
DATE: _____

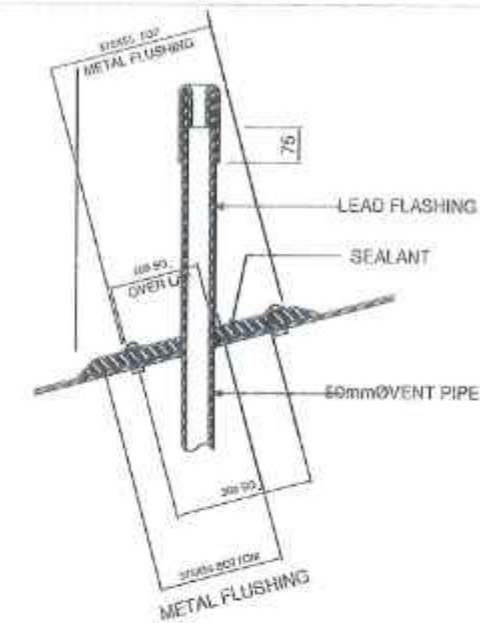
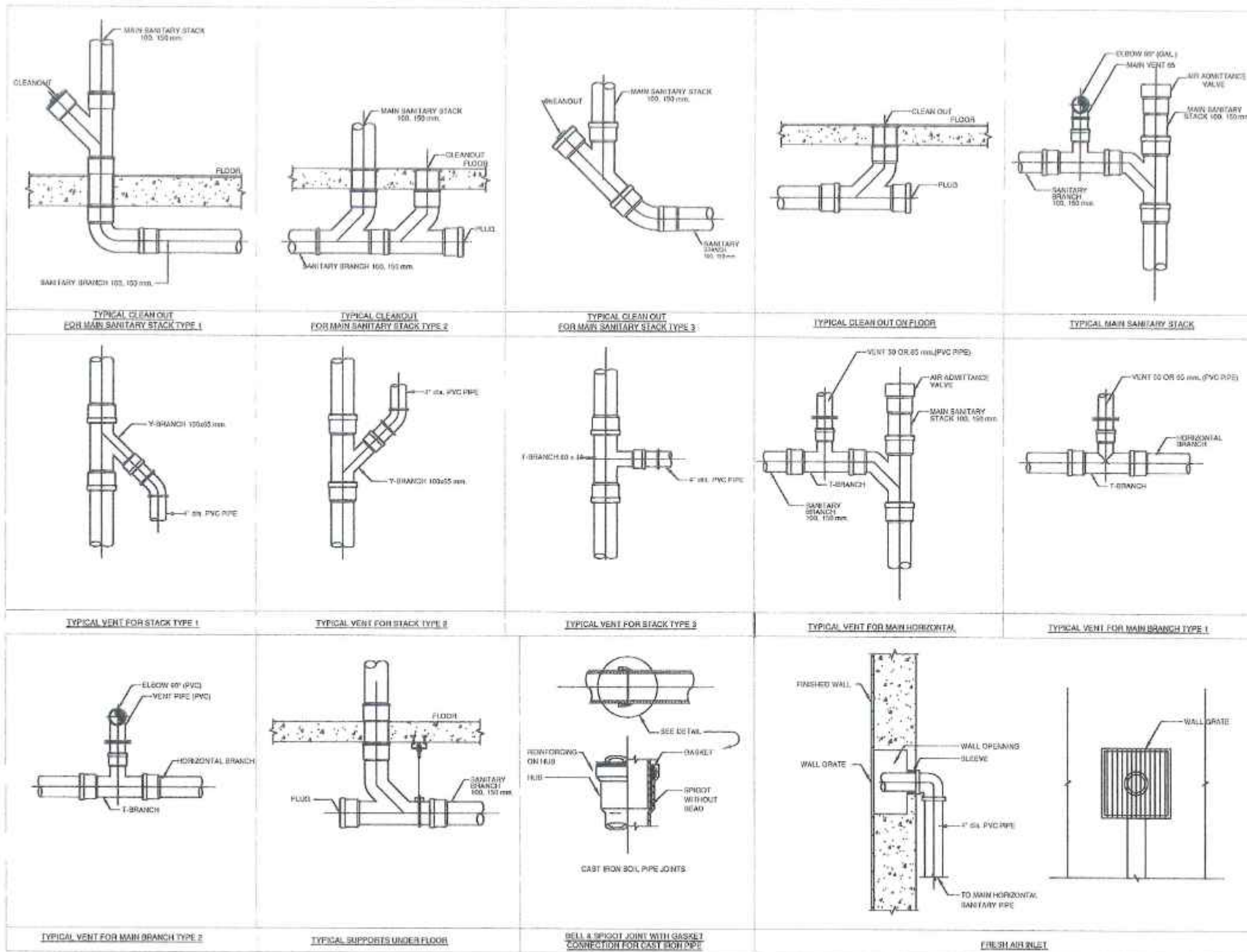
REVIEWED BY:
[Signature]
DATE: _____

DESIGNED BY:
[Signature]
DATE: _____

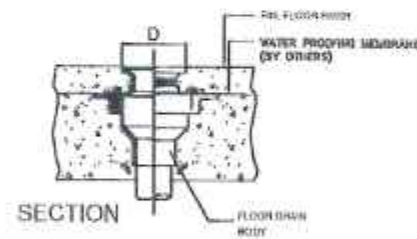
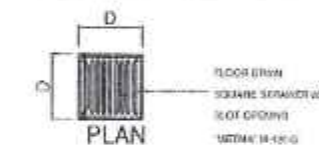
RECOMMENDED BY:
[Signature]
DATE: _____

APPROVED BY:
[Signature]
DATE: _____

SHEET NO.: 13
TOTAL SHEETS: 19



VENT THRU ROOF DETAIL
SCALE: NTS



SCHEDULE OF DIMENSIONS

PIPE SIZE IN 'A'	DIMENSIONS IN MM.	
	C	D
50	38.10	101.60
75	38.10	127.00
100	40.00	152.40
150	50.00	177.80

FLOOR DRAIN DETAILS
SCALE: NTS

11 TYPICAL PLUMBING CONNECTION DETAILS
SCALE: NTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MILL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF BPWH BUILDING ZAMBONGA CITY 2ND DISTRICT
RURAL ADMINISTRATION BUILDING (CONSTRUCTION SECTION PHASE I)
MILL HIGHWAY, DIVISORIA, ZAMBONGA CITY
PROJECT LOCATION: MARY DIVISORIA, ZAMBONGA CITY

SHEET CONTENTS
TYPICAL PLUMBING CONNECTION DETAILS

DRAWN BY:
JAYNEE M. M. LAPOL
DATE:

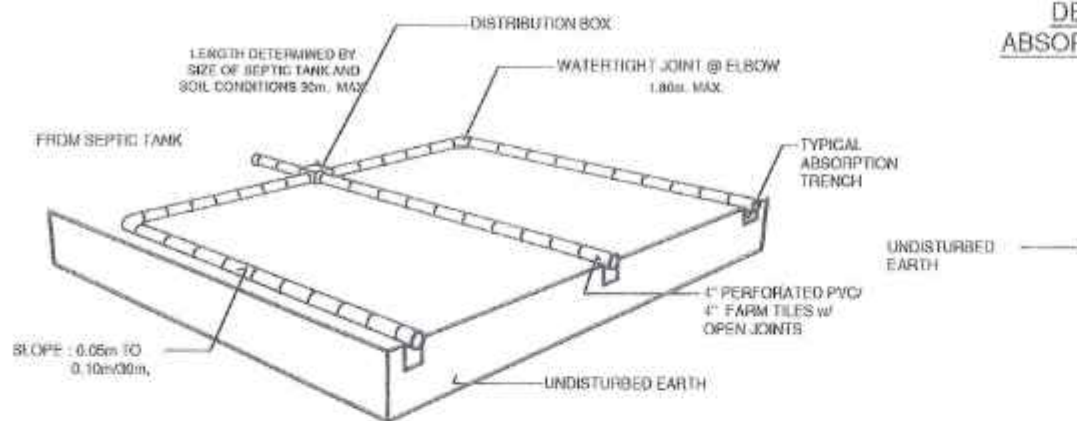
REVIEWED BY:
JAYNEE M. M. LAPOL
DATE:

QUANTITY BY:
ABRAHAM M. ROMANO
DATE:

RECORDED BY:
ROBERTO DONDY, RIA, ELENA
DATE:

APPROVED BY:
PIAR C. RIVERA
DATE:

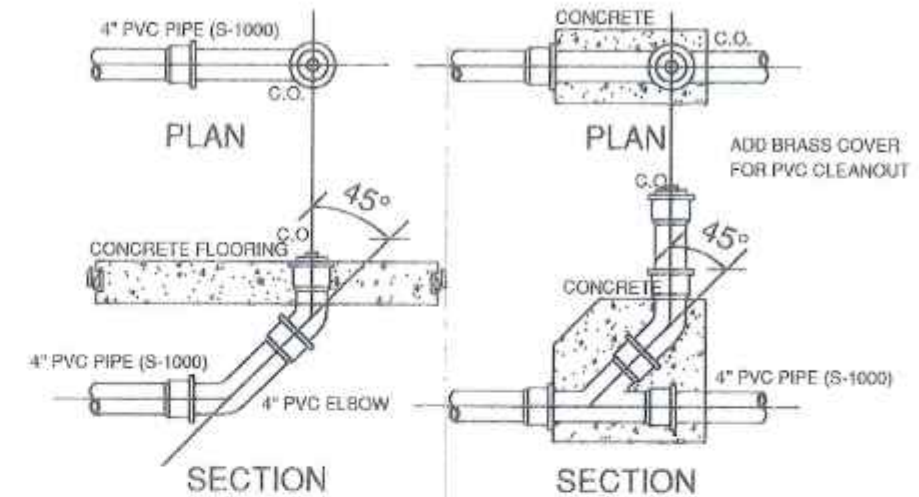
SHEET NO.: 15
TOTAL SHEETS: 19



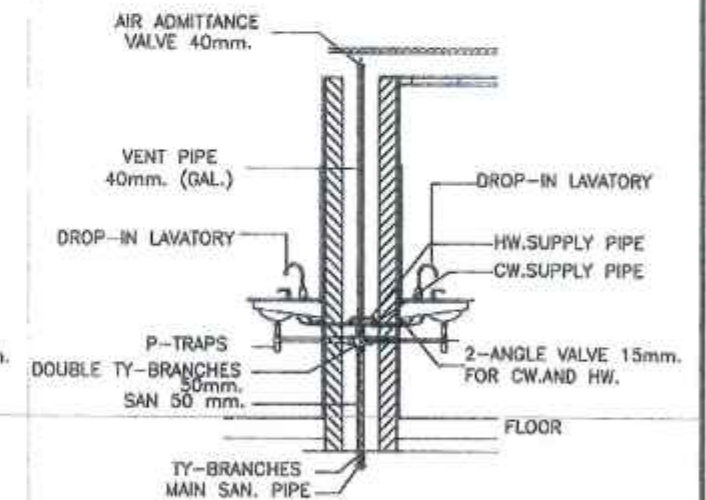
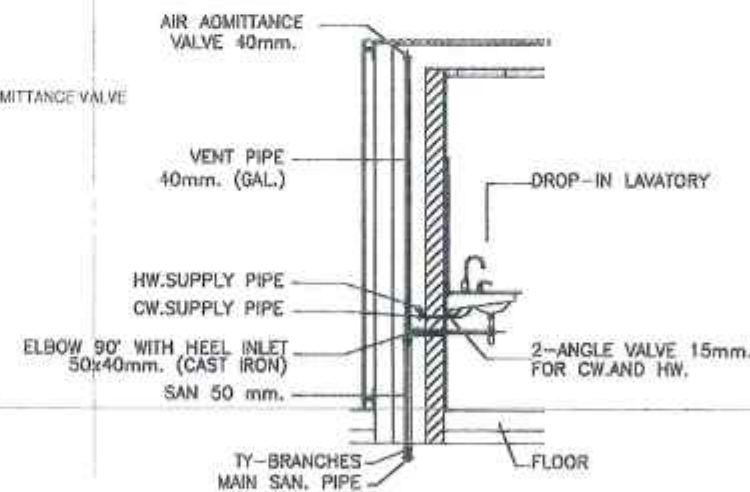
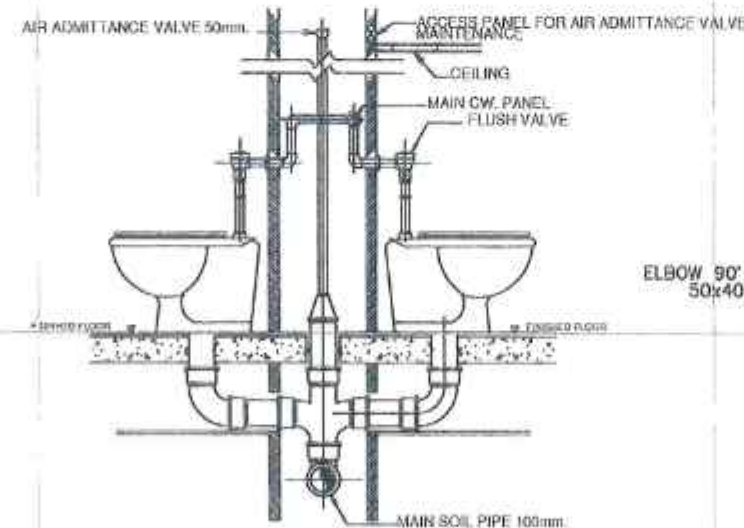
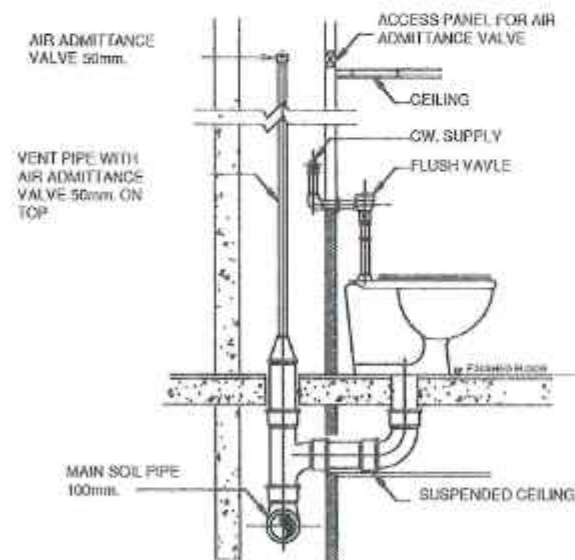
DET. SECT. OF
ABSORPTION TRENCH

- ✓ IMPERVIOUS MATERIAL
- ✓ FILTER MATERIAL
- ✓ 4" PERFORATED PVC/ 4" FARM TILES w/ OPEN JOINTS

FLOOR CLEAN OUT DETAILS
SCALE: NTS



FLOOR CLEAN OUT DETAILS
SCALE: NTS



12 TYPICAL PLUMBING CONNECTION DETAILS
SCALE: NTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
ZAMBONGA CITY 2ND DISTRICT
ENGINEERING OFFICE
MCIL HIGHWAY, DIVISORIA, ZAMBONGA CITY, DAVOS REGION

PROJECT TITLE:
"DETAILED ENGINEERING PLAN" FOR
REPAIR/MAINTENANCE OF OFFICE BUILDING ZAMBONGA CITY AND CDO
BLOG ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE 1,
MCIL HIGHWAY, DIVISORIA, ZAMBONGA CITY

PROJECT LOCATION: BRGT, DIVISORIA, ZAMBONGA CITY

SHEET CONTENTS
TYPICAL PLUMBING CONNECTION DETAILS

DRAFTED BY:
JAYCEE B. BAYAN
DATE: 10/10/2023

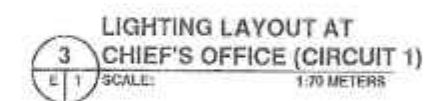
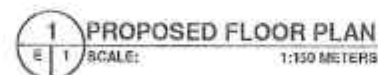
REVIEWED BY:
H. P. ARANGA
DATE: 10/10/2023

SUBMITTED BY:
ARABIAN B. AGUNG
DATE: 10/10/2023

RECOMMENDED BY:
ROBERTO D. B. B. B. B.
DATE: 10/10/2023

APPROVED BY:
PLAR C. RIVERA
DATE: 10/10/2023

SHEET NO.: 16
SHEET NO.: 19



 	S_A SINGLE GANG SWITCH S_{AB} TWO GANG SWITCH S_{ABC} THREE GANG SWITCH C1 CIRCUIT RUN	 	1 X 16W. T8 LED DAYLIGHT LAMP W/ SLOTTED REFLECTIVE DIFFUSER 15W ROUND FLAT PANEL LED LIGHT
	LIGHTING LINE	10W LED T5 TUBE LIGHT (WARM WHITE)	

2440mm

100 200 50 200 50 200 250 100

1220mm





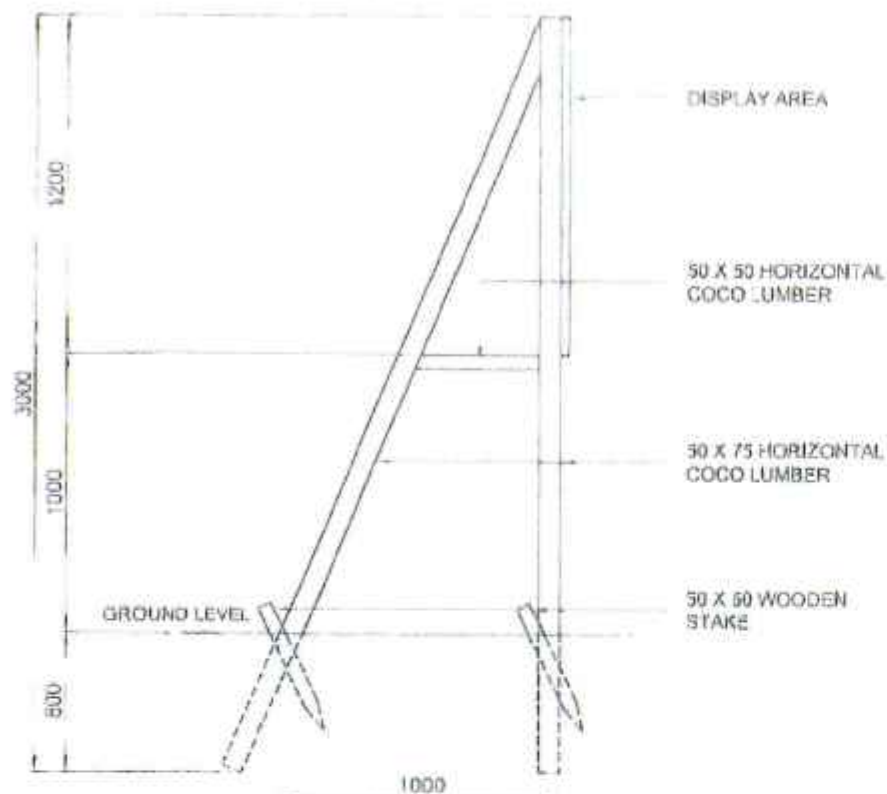

THIS IS WHERE YOUR TAXES GO

NAME OF PROJECT:
 LOCATION:
 NAME OF CONTRACTOR:
 DATE STARTED:
 CONTRACT COMPLETION DATE:
 CONTRACT COST:
 IMPLEMENTING OFFICE:
 SOURCES OF FUND:

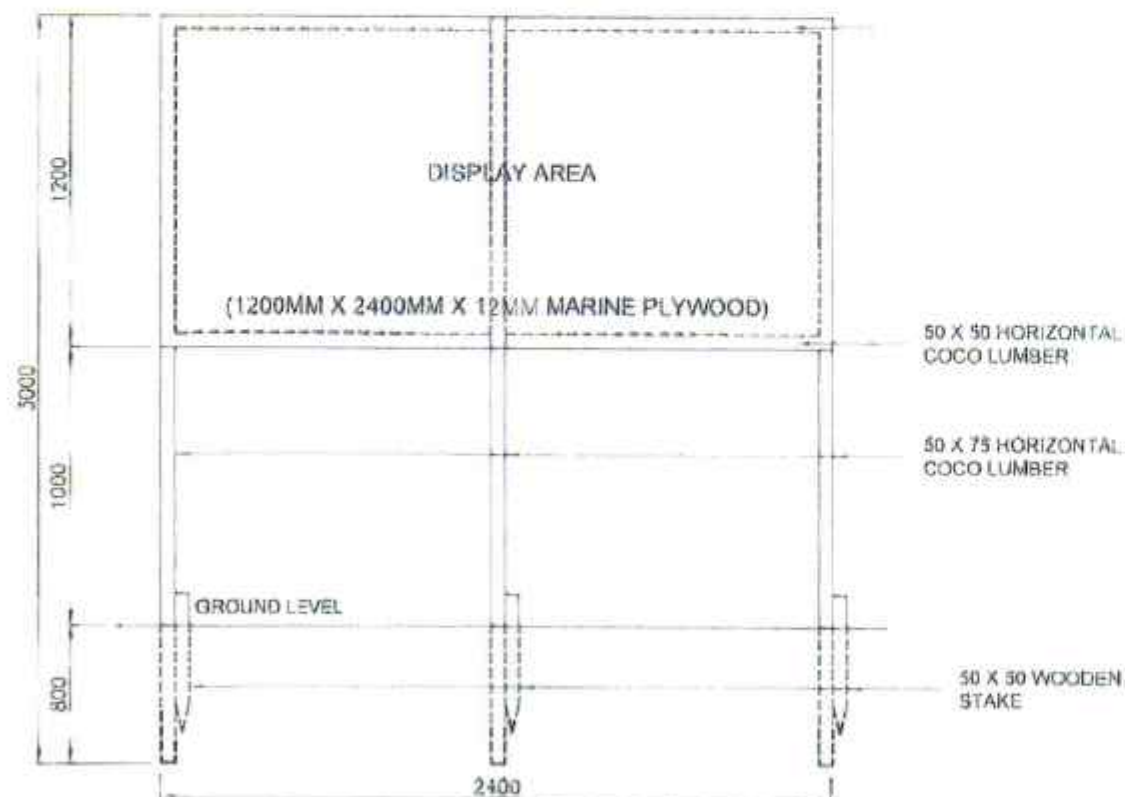
Department of Public Works and Highways
 Text 09616847984 or call (02) 165-02 for any concern on this project
www.dpwh.gov.ph

STANDARD BILLBOARD FOR PROJECTS FUNDED AND IMPLEMENTED BY DPWH

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBONGA CITY 2ND DISTRICT ENGINEERING OFFICE MILL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX	PROJECT TITLE: "DISTRICT ENGINEERING PLAN" FOR REPAIR MAINTENANCE OF OPEN RAILWAY ZAMBONGA CITY 2ND DISTRICT BLDG ADMINISTRATIVE BUILDING CONSTRUCTION SECTION (PHASE II) MILL HIGHWAY, DIVISORIA, ZAMBONGA CITY	SHEET CONTENTS: STANDARD PROJECT BILLBOARD DESIGN	DRAFTED BY: JAYCEE NEVILL S. CAPOL ENGINEER DATE:	REVIEWED BY: [Signature] ENGINEER DATE:	SUBMITTED BY: [Signature] CHIEF, ORIGINATING SECTION DATE:	RECOMMENDED BY: ROBERTO DOMIN F. STA. ELENA ASSISTANT DISTRICT ENGINEER DATE:	APPROVED BY: [Signature] DISTRICT ENGINEER DATE:	SET NO: A	SHEET NO: 18 19
	PROJECT LOCATION: HWY. DIVISORIA, ZAMBONGA CITY								



TYPICAL FRAME ELEVATION



FRONT ELEVATION



THIS IS WHERE YOUR TAXES GO

NAME OF PROJECT:

LOCATION:

NAME OF CONTRACTOR:

DATE STARTED:

CONTRACT COMPLETION DATE:

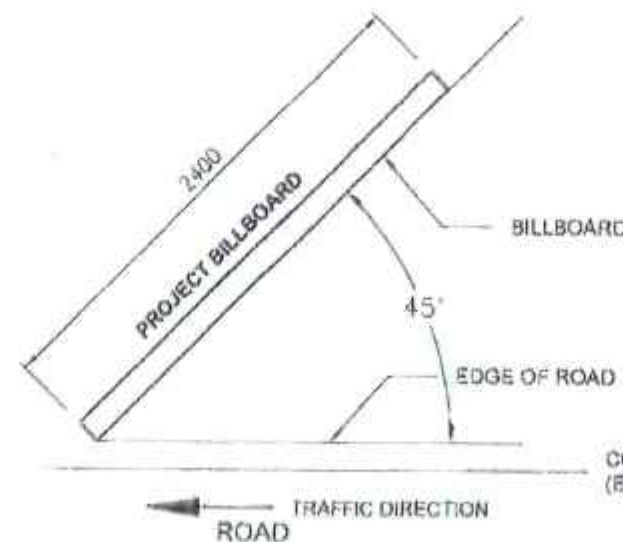
CONTRACT COST:

IMPLEMENTING OFFICE:

SOURCES OF FUND:

Department of Public Works and Highways
Text 09115642584 or call 02-1155-01 for any concerns on this project
www.dpwh.gov.ph

DPWH STANDARD PROJECT BILLBOARD



GENERAL NOTES:

1. FONT STYLE SHALL BE ARIAL, WHILE THE DIMENSION AND LETTER SIZES AS INDICATED ON THE DESIGN LAYOUT SHALL BE ON WHITE BACKGROUND.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ZAMBONGA CITY 2ND DISTRICT ENGINEERING OFFICE MCLL HIGHWAY, DIVISORIA, ZAMBONGA CITY, REGION IX	PROJECT TITLE: "DETAILED ENGINEERING PLAN" FOR REPAIR/MAINTENANCE OF DPWH BUILDING ZAMBONGA CITY 2ND DISTRICT BLOOD ADMINISTRATIVE BUILDING (CONSTRUCTION SECTION) PHASE II, MCCL HIGHWAY, DIVISORIA, ZAMBONGA CITY PROJECT LOCATION: BRGY. DIVISORIA, ZAMBONGA CITY	PROJECT CONTENTS: STANDARD PROJECT BILLBOARD DESIGN	DRAWN BY: JAYCEE MARQUEL C. GARCIA DATE: _____	REVIEWED BY: ROBERTO DUNO F. STA. ELENA DATE: _____	SUBMITTED BY: ABRAHAM M. AQUINO DATE: _____	RECOMMENDED BY: ROBERTO DUNO F. STA. ELENA DATE: _____	APPROVED BY: PILAR G. RIVERA DATE: _____	SET NO.: A SHEET NO.: 19
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