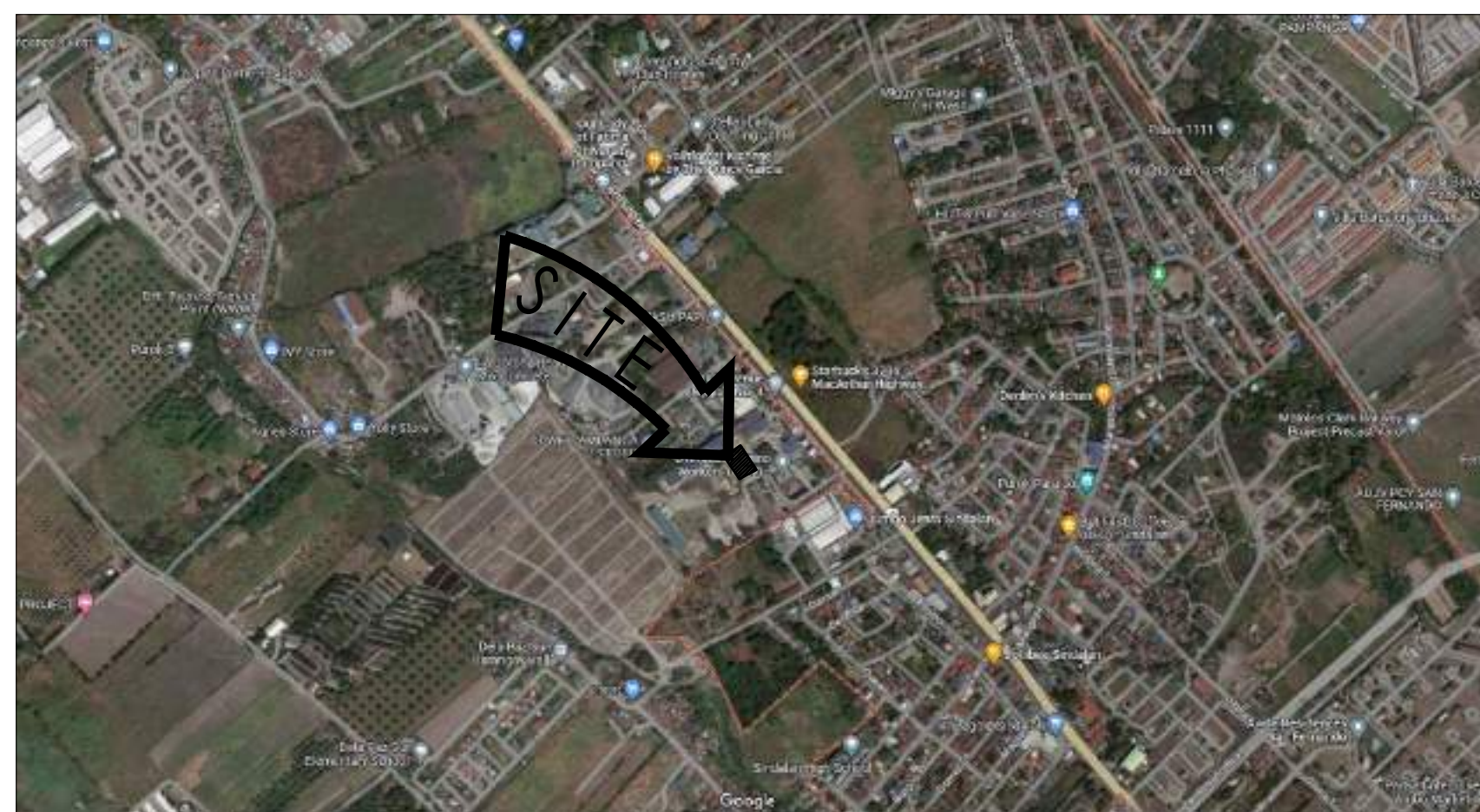
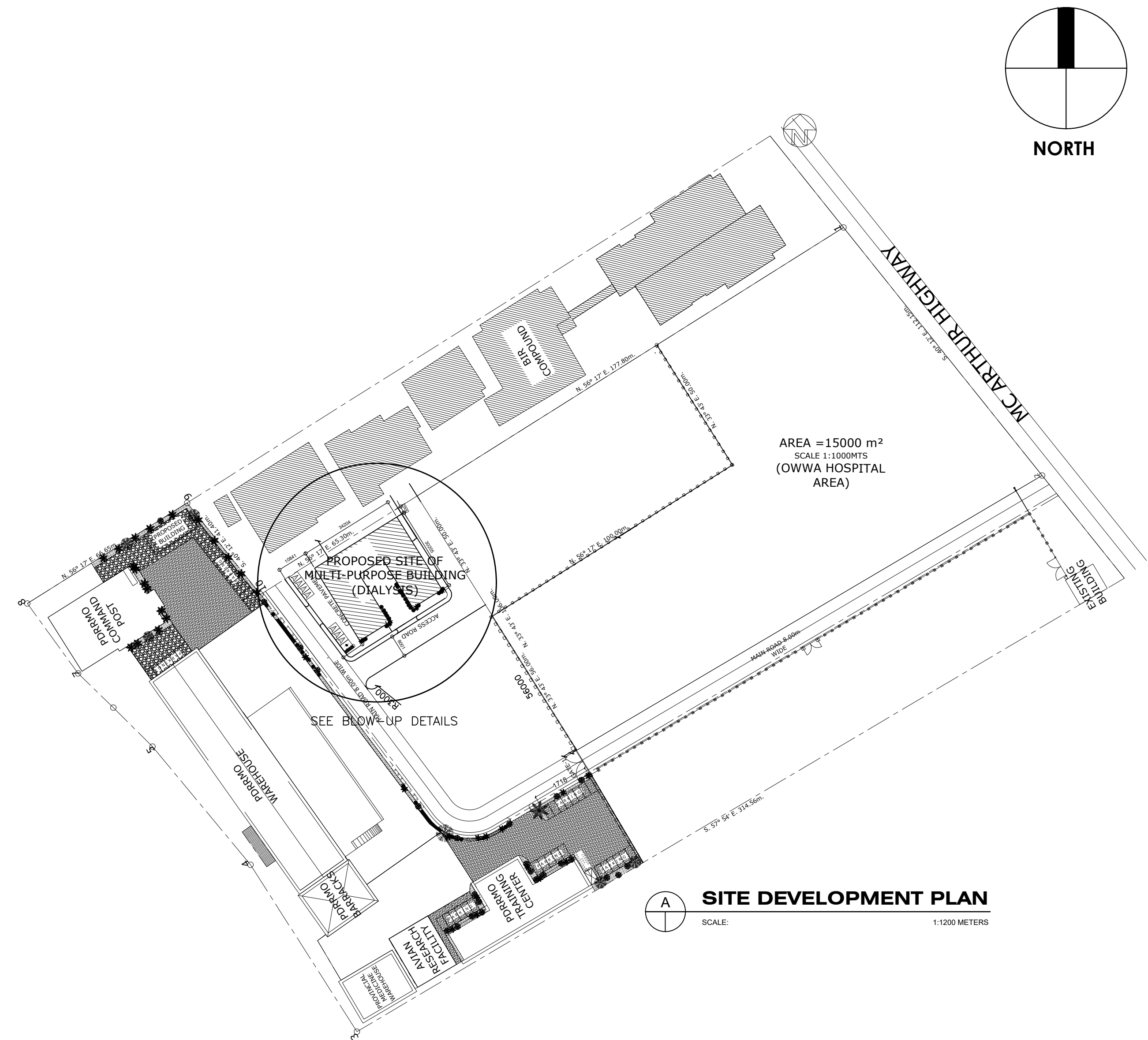




## PERSPECTIVE

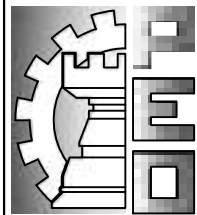


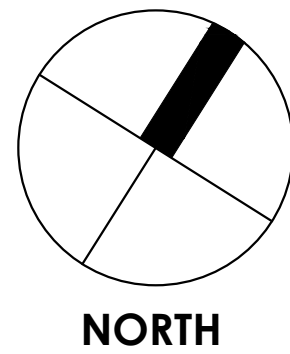
**VICINITY MAP**  
SCALE: NTS



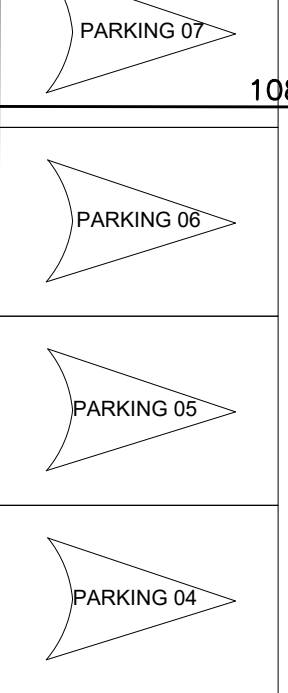
## PROJECT TITLE & LOCATION :

# CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS) AT PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b>	PREPARED BY:  <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  AS SHOWN ARCHITECTURAL	SHEET NO.:  A-1 1 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: IRVIN JOSEF D. CRUZ					

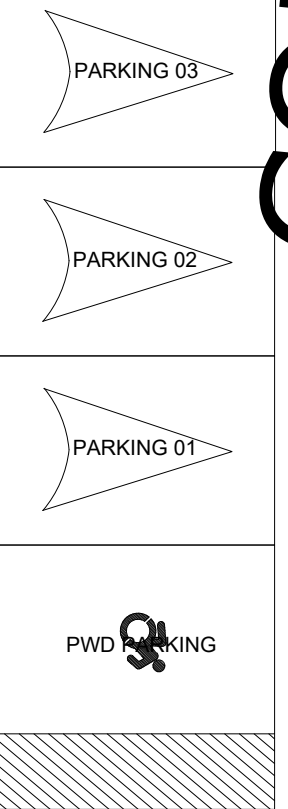


36350



CONCRETE PAVEMENT

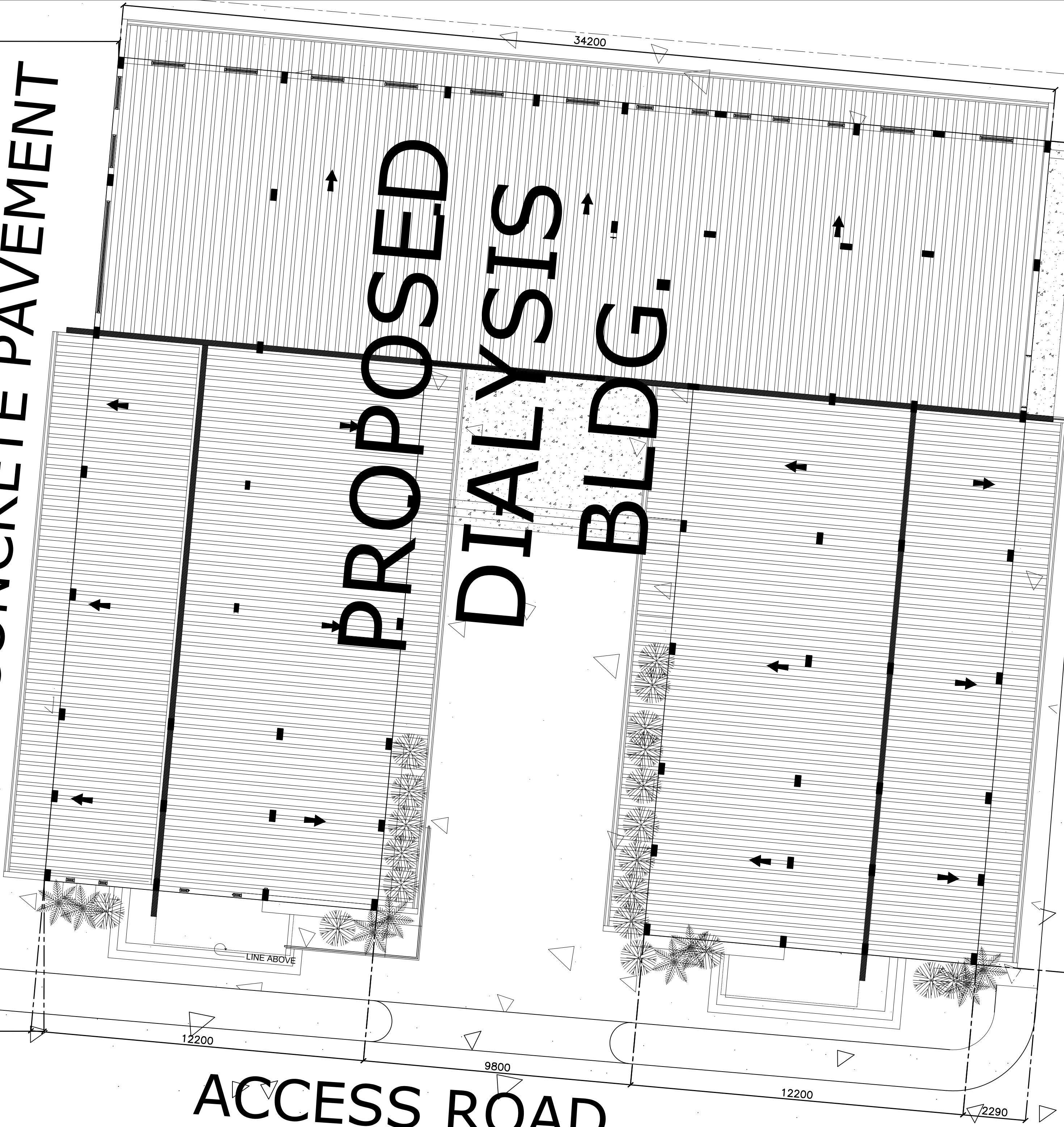
PROPOSED DIALYSIS BLDG.



PWD PARKING


8130

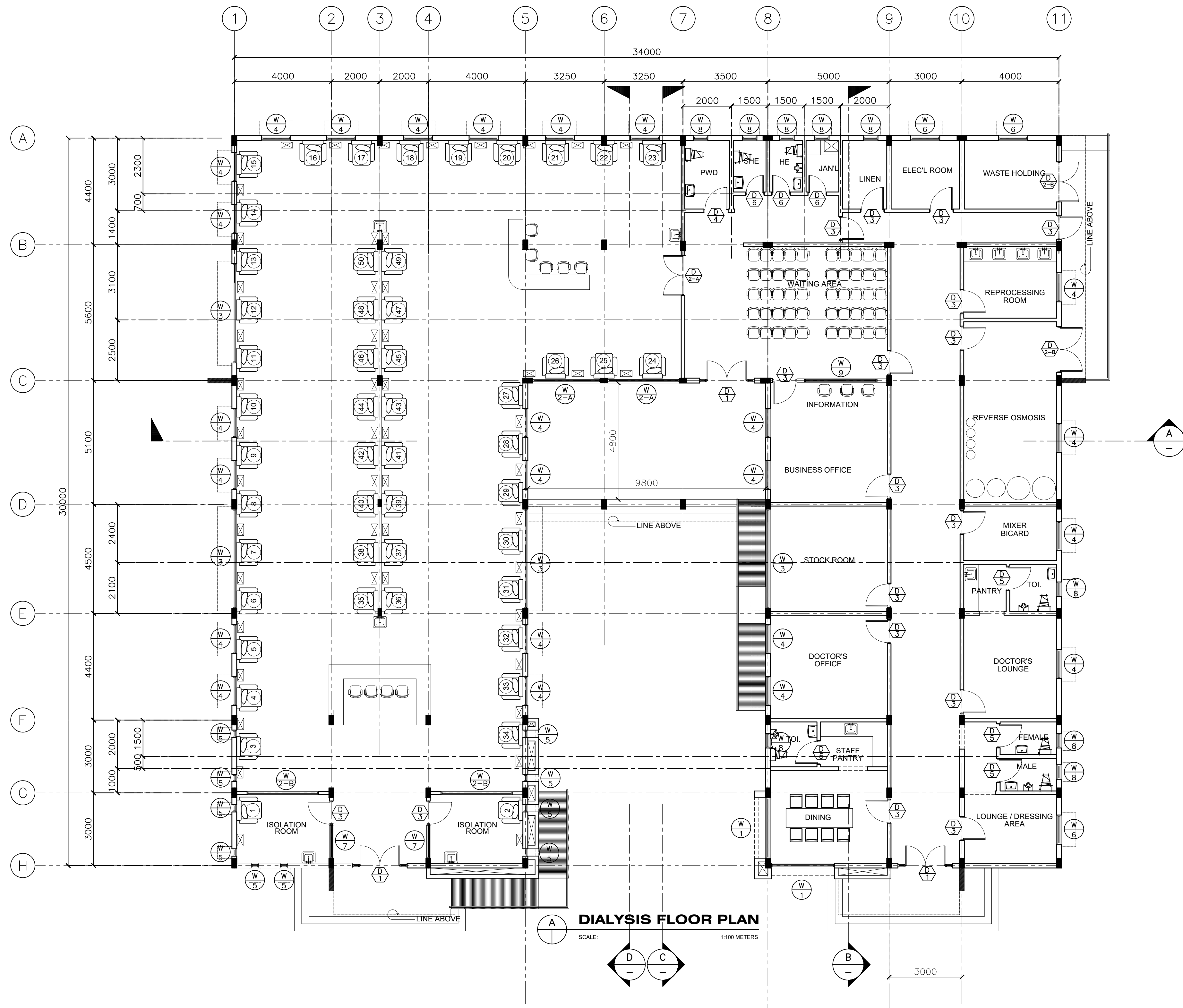
ACCESS ROAD



N. 33° 43' E. 50.00m.

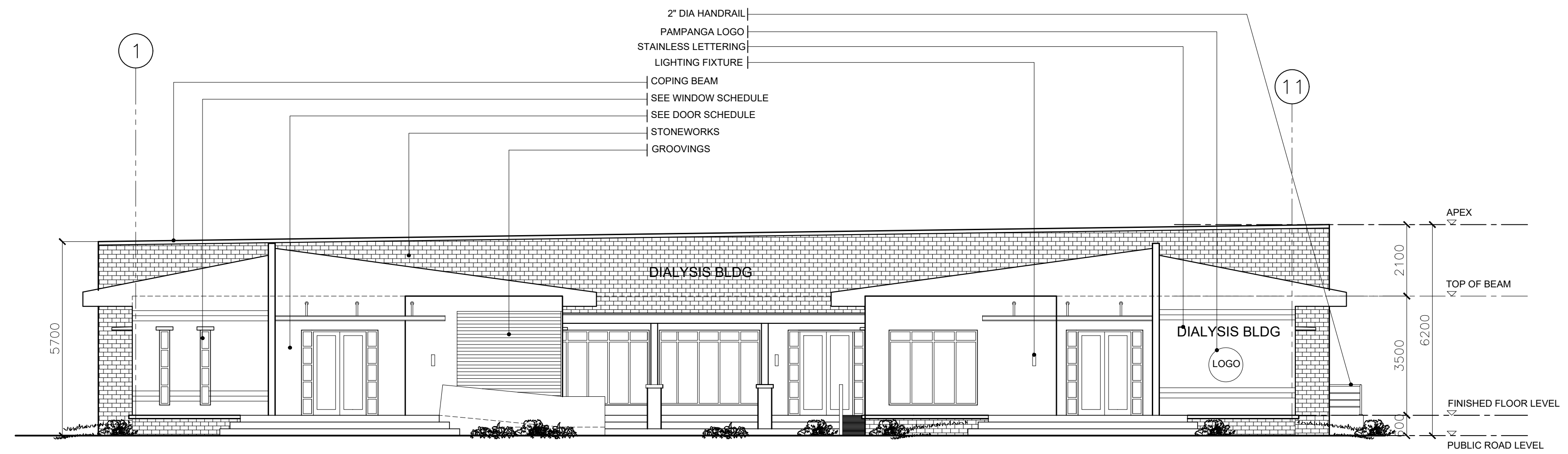
SITE DEVELOPMENT PLAN(BLOW-UP)  
SCALE: 1:100 METERS

 <p>FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>PROJECT TITLE: <b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b> LOCATION:PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)</p>	<p>PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY: IRVIN JOSEF D. CRUZ</p>	<p>CHECKED &amp; SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER</p>	<p>RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER</p>	<p>APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR</p>	<p>SHEET CONTENTS: <b>AS SHOWN</b> ARCHITECTURAL</p>	<p>SHEET NO.: <b>A-2</b> 2 of 31</p>
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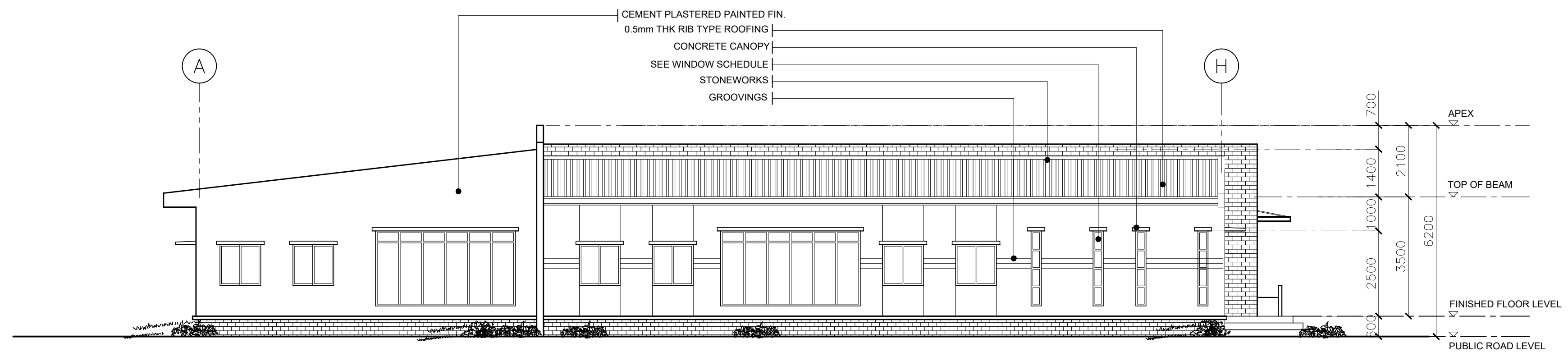


**DIALYSIS FLOOR PLAN**  
SCALE: 1:100 METERS

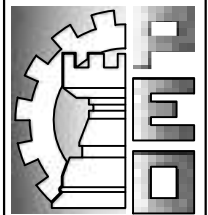
<p>FROM THE OFFICE OF:</p> <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA</p> <p><b>PROVINCIAL ENGINEER'S OFFICE</b></p> <p>CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>PROJECT TITLE:</p> <p><b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b></p> <p>LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)</p>	<p>PREPARED BY:</p> <p><b>BRYAN Q. ALVARADO</b> ENGINEER III</p> <p>CAD BY: RALPH PASCUAL</p>	<p>CHECKED &amp; SUBMITTED BY:</p> <p><b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER</p>	<p>RECOMMENDING APPROVAL:</p> <p><b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER</p>	<p>APPROVED BY:</p> <p><b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor:</p> <p><b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR</p>	<p>SHEET CONTENTS:</p> <p><b>AS SHOWN</b> ARCHITECTURAL</p>	<p>SHEET NO.:</p> <p><b>A-3</b> 3 of 31</p>
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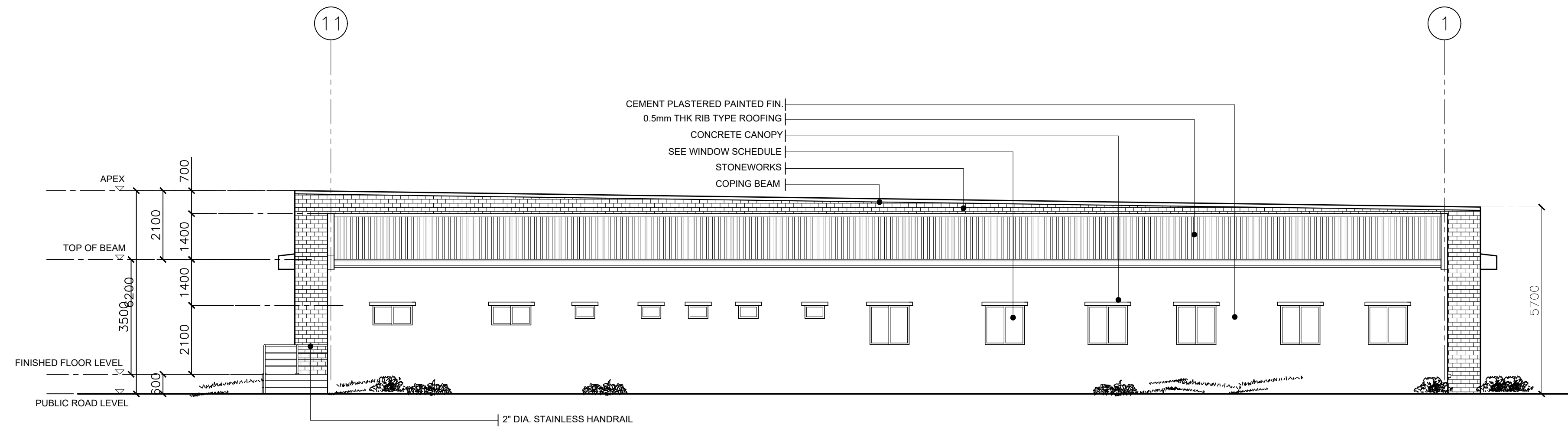


**A FRONT ELEVATION**  
SCALE: 1:100 METERS

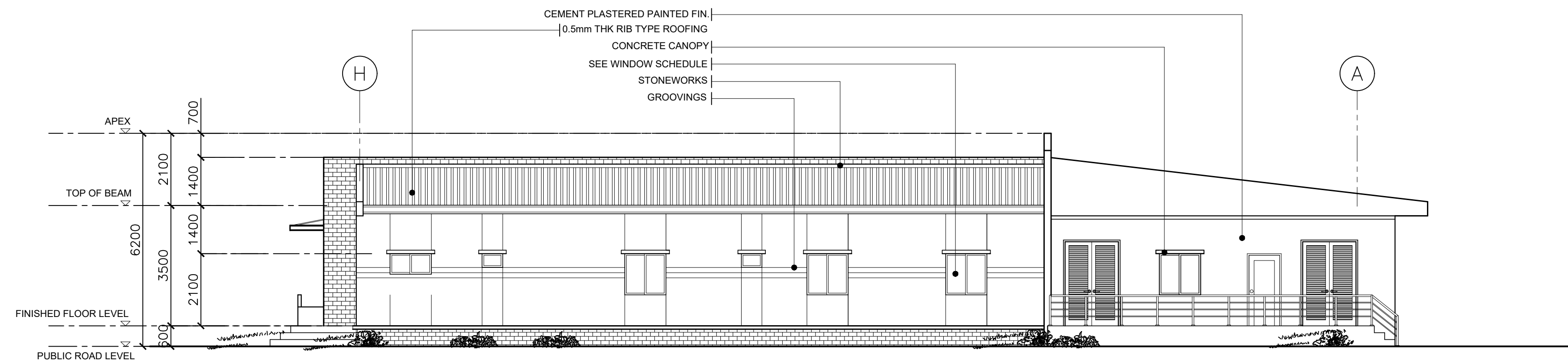


**A LEFT SIDE ELEVATION**  
SCALE: 1:100 METERS

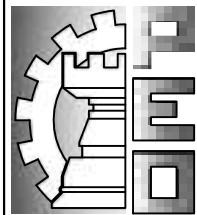
	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY:  <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.:  <b>A-4</b> 4 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: RALPH PASCUAL					

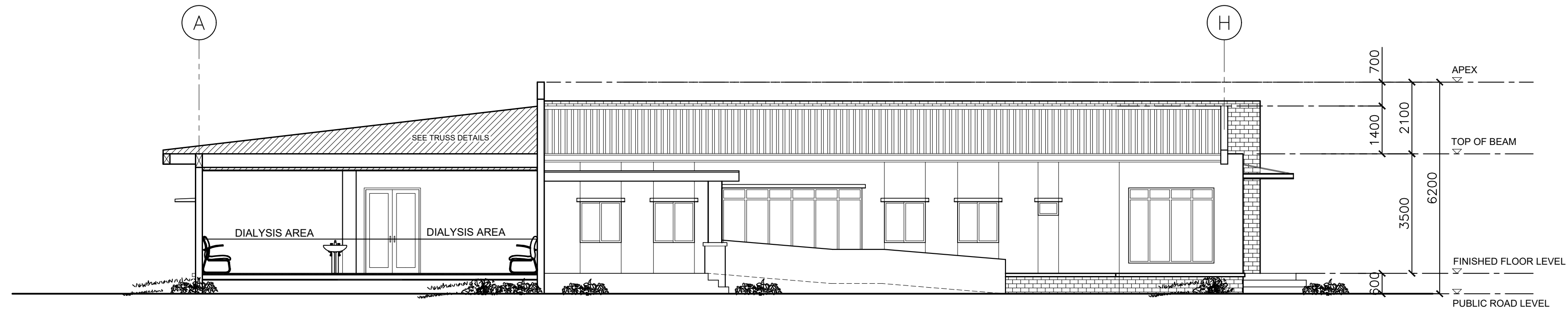


**A REAR ELEVATION**  
SCALE: 1:100 METERS



**A RIGHT SIDE ELEVATION**  
SCALE: 1:100 METERS

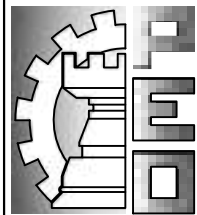
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	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: RALPH PASCUAL					

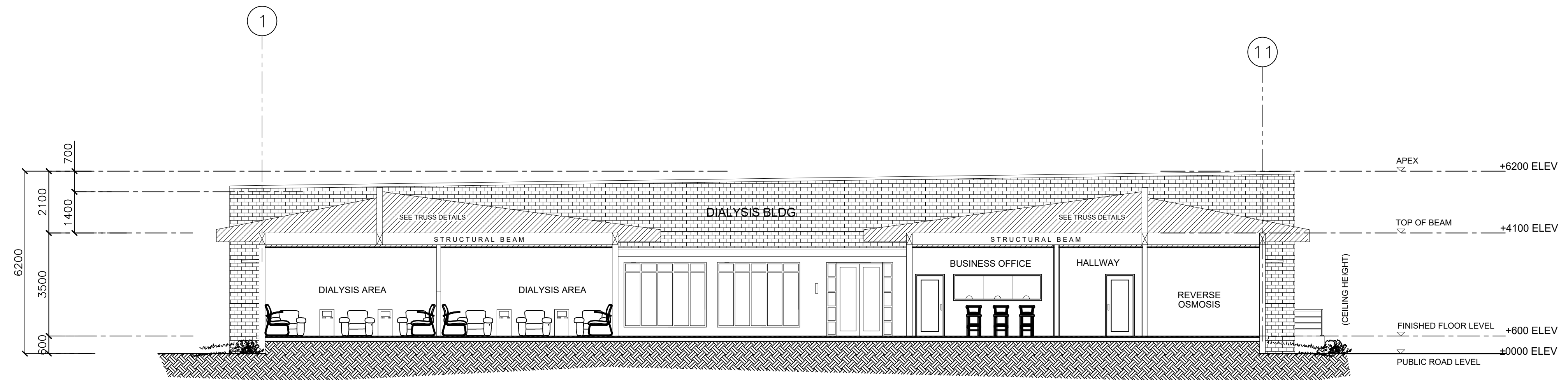


**CROSS SECTION - C**  
SCALE: 1:125 METERS

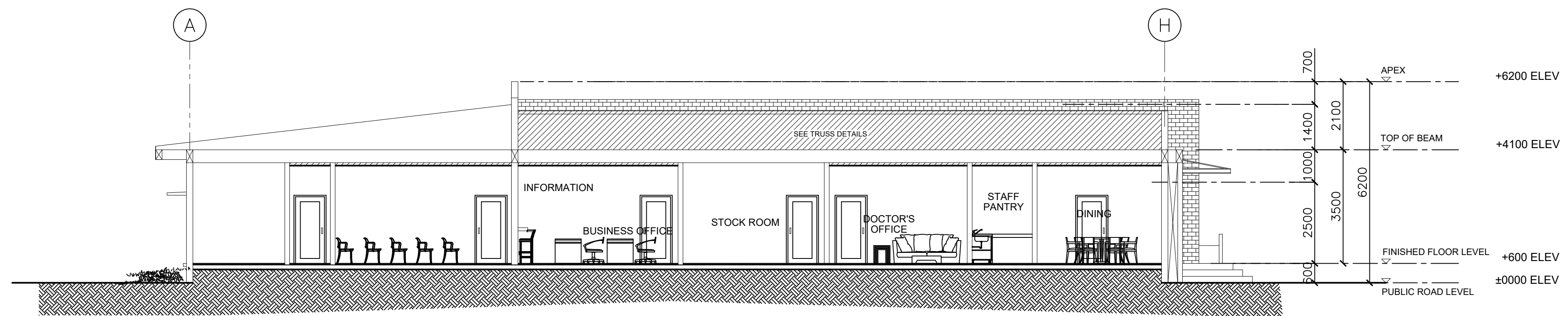


**CROSS SECTION - D**  
SCALE: 1:125 METERS

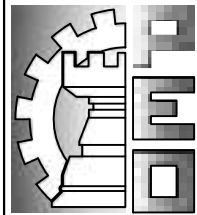
	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.: <b>A-6</b> 6 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: RALPH PASCUAL					

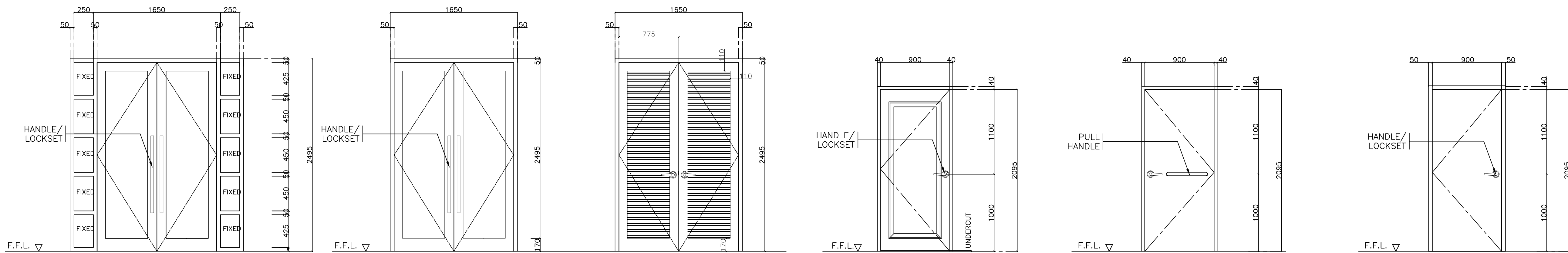


**LONGITUDINAL SECTION**  
SCALE: 1:100 METERS



**CROSS SECTION**  
SCALE: 1:100 METERS

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.: <b>A-7</b> 7 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: RALPH PASCUAL					



D 1
D 2-A
D 2-B
D 3
D 4
D 5

TYPE	SWING TYPE DOUBLE 10mm TEMPERED CLEAR GLASS ON ALUMINUM FRAME
LOCATION	MAIN ENTRANCES
HARDWARE	CHAIN BOLT, FOOT BOLT CONCEALED OVERHEAD DOOR CLOSER
SETS	3

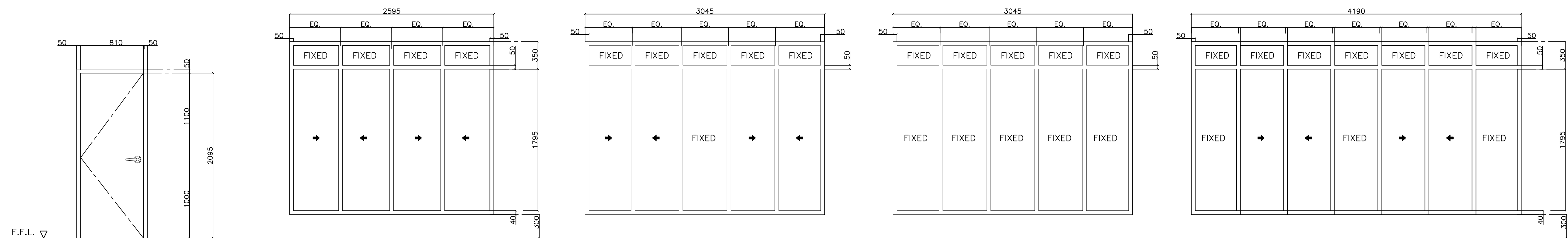
TYPE	SWING TYPE DOUBLE 10mm TEMPERED CLEAR GLASS ON ALUMINUM FRAME
LOCATION	DIALYSIS ROOM
HARDWARE	CHAIN BOLT, FOOT BOLT CONCEALED OVERHEAD DOOR CLOSER
SETS	1

TYPE	SWING TYPE LOUVERED DOUBLE LEAF DOOR ON ALUMINUM FRAME
LOCATION	WASTE HOLDING, REVERSE OSMOSIS
HARDWARE	LEVER TYPE LOCKSET, DEAD BOLT CYLINDRICAL HINGED (5)
SETS	2

TYPE	SWING TYPE SINGLE PANEL DOOR WITH 6mm THK TEMPERED CLEAR GLASS
LOCATION	OFFICES
HARDWARE	LEVER TYPE LOCKSET, DEAD BOLT CYLINDRICAL HINGED (5)
SETS	17

TYPE	SWING TYPE FLUSH DOOR
LOCATION	COMFORT ROOMS, PWD TOILETS
HARDWARE	LEVER TYPE LOCKSET, CYLINDRICAL HINGED (4)
SETS	1

TYPE	SWING TYPE FLUSH DOOR
LOCATION	OFFICE TOILETS
HARDWARE	LEVER TYPE LOCKSET, CYLINDRICAL HINGED (4)
SETS	4



D 6
W 1
W 2-A
W 2-B
W 3

TYPE	SWING TYPE FLUSH DOOR
LOCATION	OFFICE TOILETS
HARDWARE	LEVER TYPE LOCKSET, CYLINDRICAL HINGED (4)
SETS	3

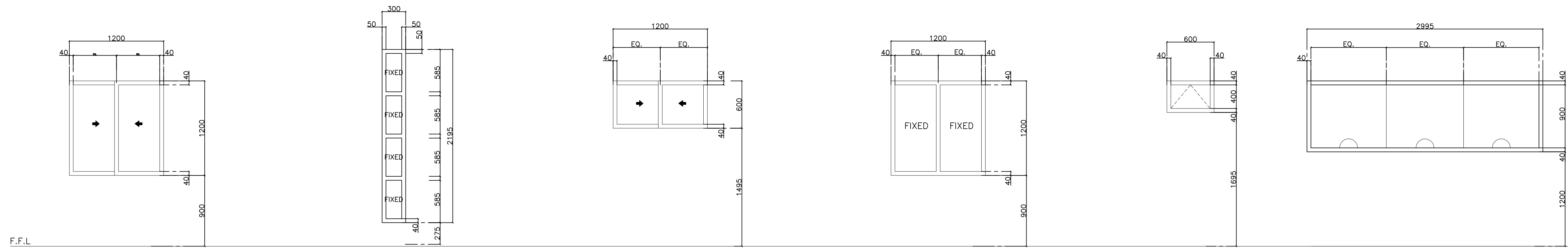
TYPE	6mm THK BRONZE GLASS SLIDING WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	DINING ROOM
SETS	2

TYPE	6mm THK BRONZE GLASS SLIDING WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	MAIN DIALYSIS ROOM
SETS	2

TYPE	6mm THK BRONZE GLASS FIXED WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	ISOLATION ROOM
SETS	2

TYPE	6mm THK BRONZE GLASS SLIDING WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	DIALYSIS ROOM, STOCK ROOM
SETS	4





F.F.L

W  
4

W  
5

W  
6

W  
7

W  
8

W  
9

TYPE	6mm THK BRONZE GLASS SLIDING WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	DIALYSIS ROOM, VARIOUS ROOMS
SETS	24

TYPE	6mm THK BRONZE TEMPERED FIXED GLASS ON ANALOK ALUMINUM FRAMES
LOCATION	ISOLATION ROOM
SETS	2

TYPE	6mm THK BRONZE GLASS SLIDING WINDOW ON ALUMINUM FRAMES (WOOD GRAIN FINISH)
LOCATION	ELECTRICAL ROOM, WASTE HOLDING
SETS	3

TYPE	6mm THK BRONZE TEMPERED FIXED GLASS ON ANALOK ALUMINUM FRAMES
LOCATION	ISOLATION ROOM
SETS	2

TYPE	6mm THK BRONZE GLASS AWNING TYPE WINDOW ON ANALOK ALUMINUM FRAMES WITH LOUVERED TRANSOM WINDOW
LOCATION	OFFICE TOILETS
SETS	6

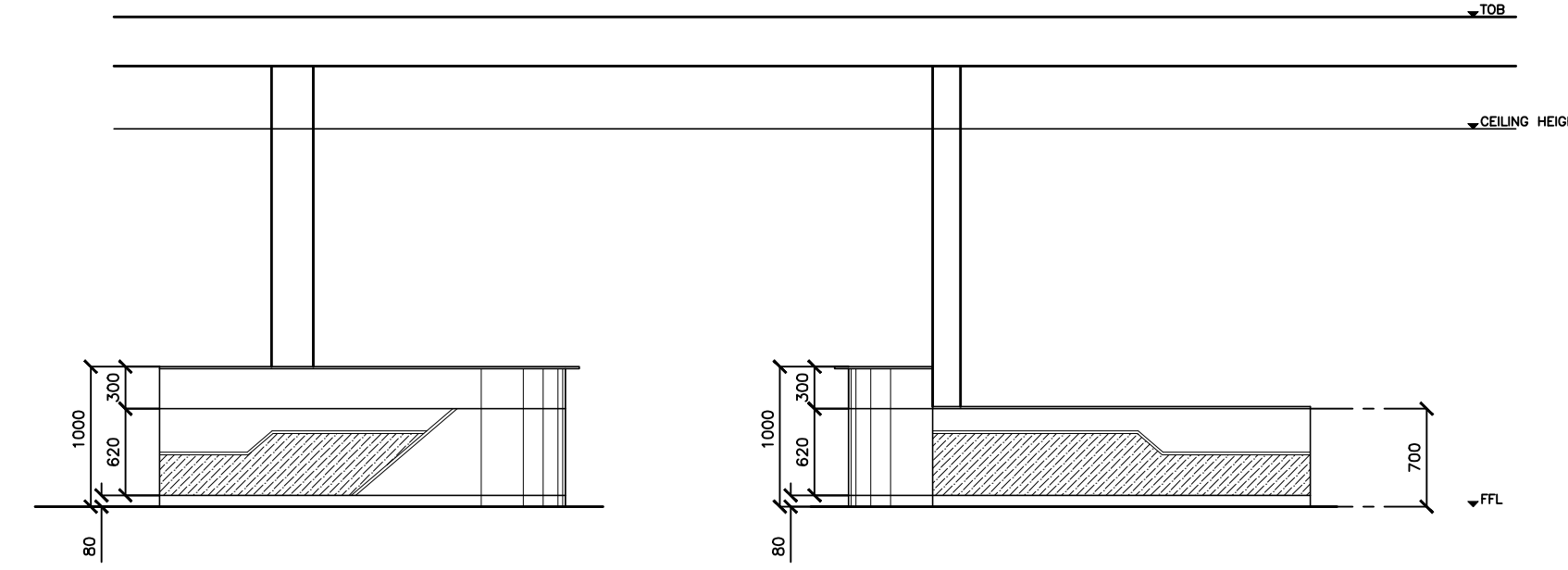
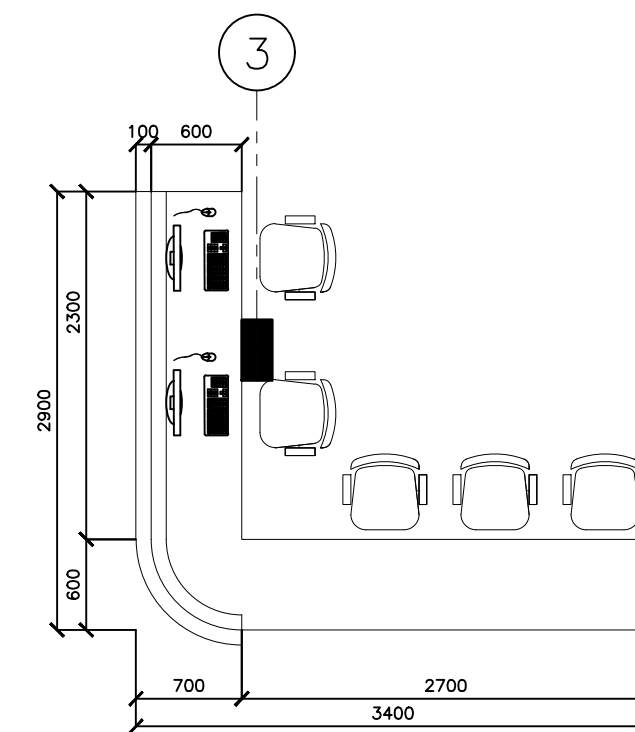
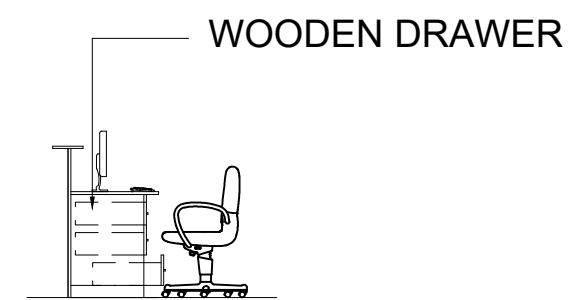
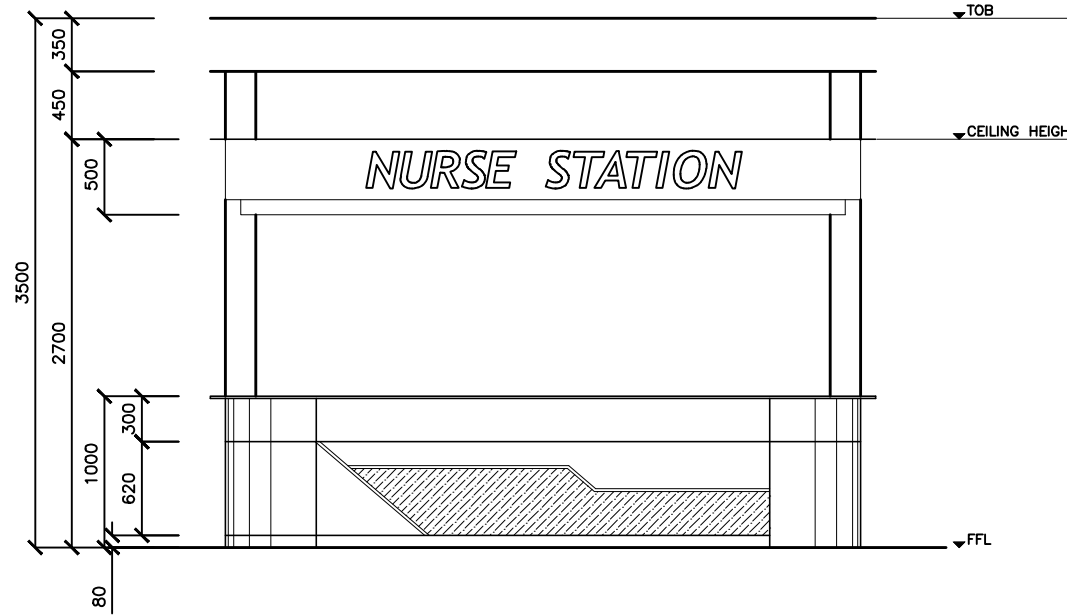
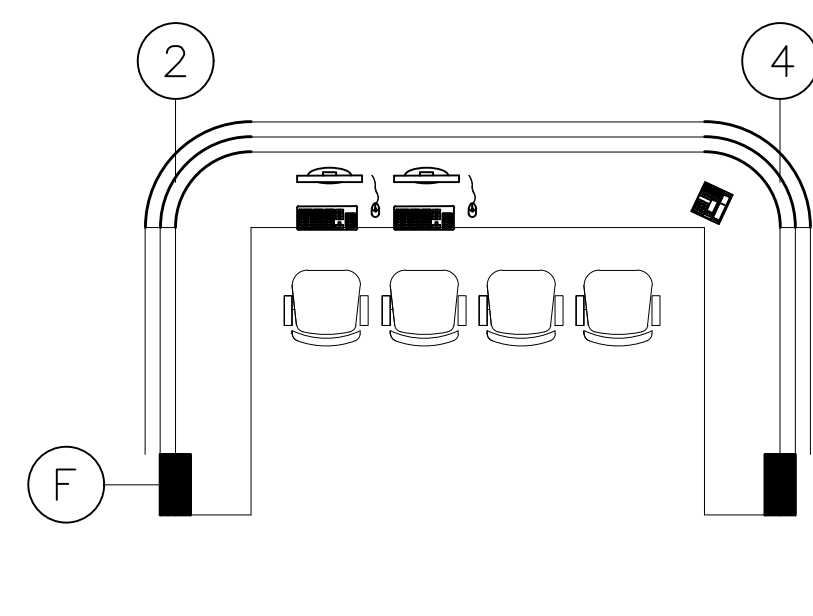
TYPE	6mm THK BRONZE TEMPERED FIXED GLASS ON ANALOK ALUMINUM FRAMES
LOCATION	INFORMATION/BUSINESS OFFICE
SETS	1

A

# DOORS AND WINDOWS SCHEDULE

SCALE:

1:30 MTS



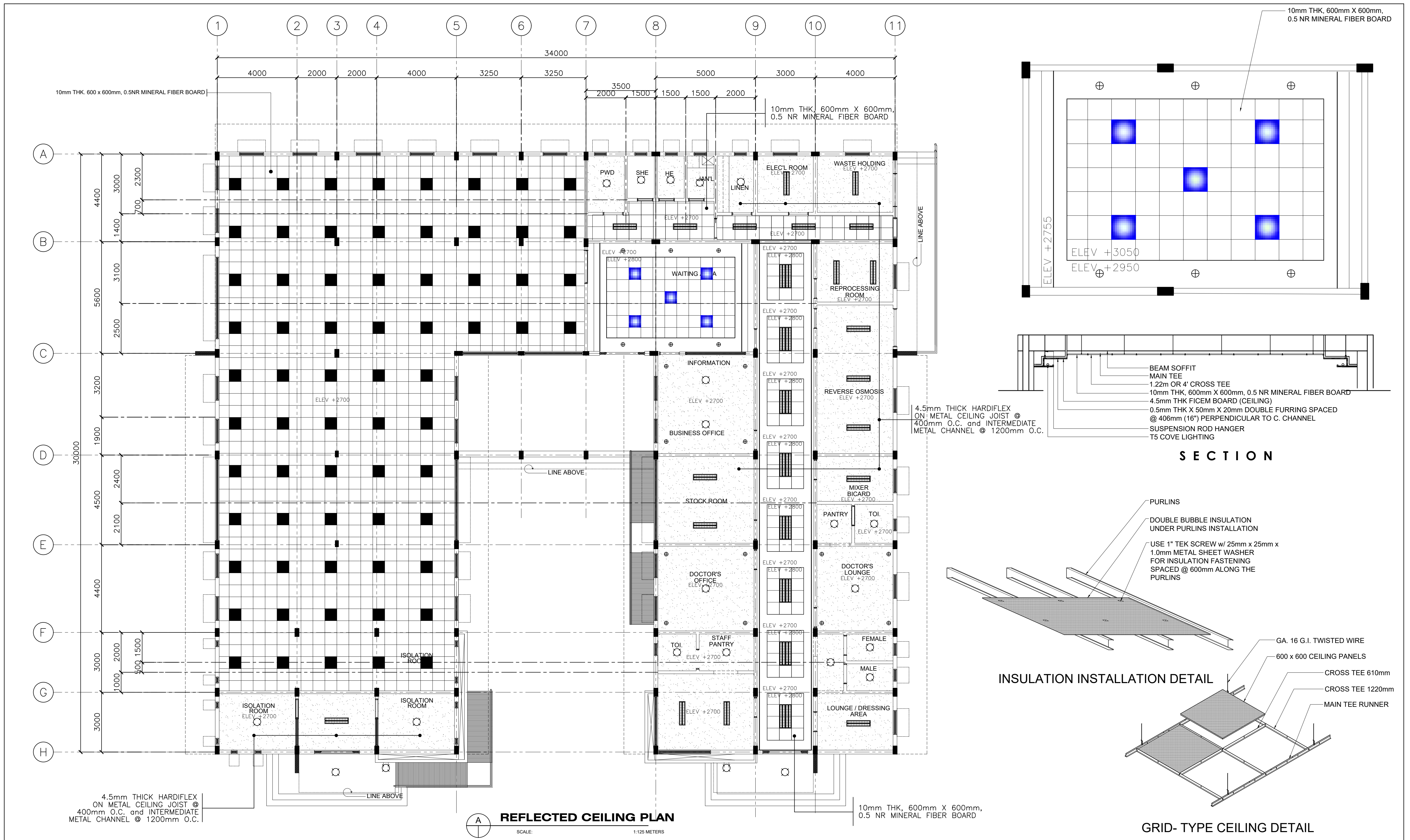
A.9 INFORMATION COUNTER/NURSE STATION LAYOUT  
SCALE 1:50 MTS.

A.9 ELEVATION OF INFORMATION COUNTER/NURSE STATION  
SCALE 1:50 MTS.

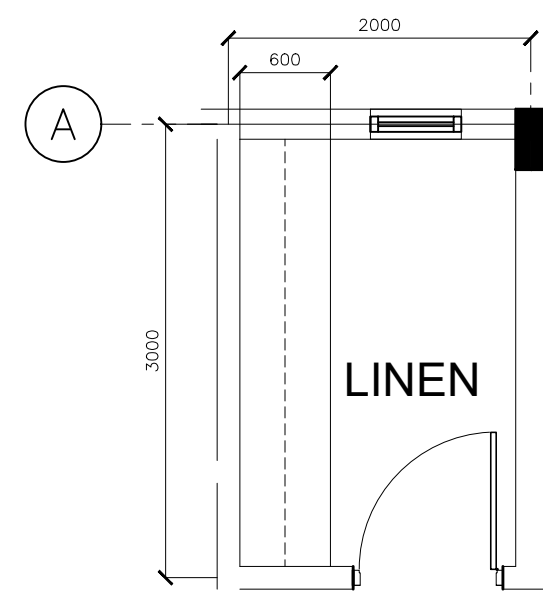
A.9 NURSE STATION LAYOUT  
SCALE 1:50 MTS.

A.9 ELEVATION OF NURSE STATION  
SCALE 1:50 MTS.

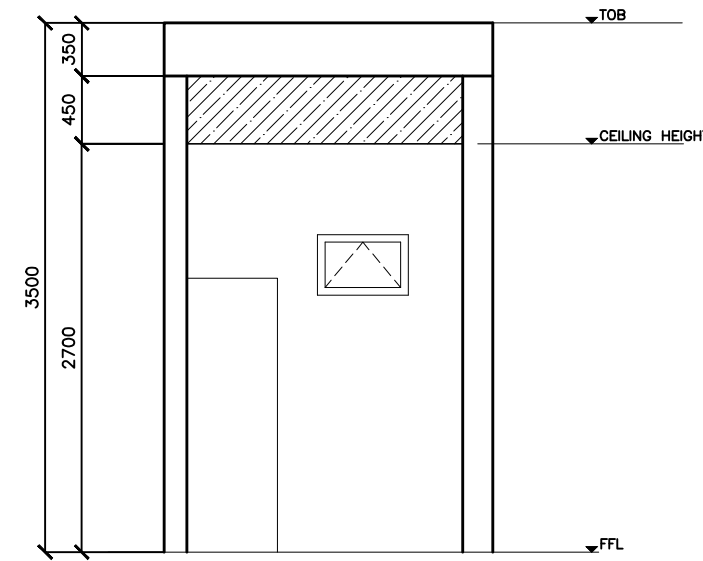
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	<b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b> LOCATION:PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	<b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY: IRVIN JOSEF D. CRUZ	<b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	<b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	<b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	<b>AS SHOWN</b> ARCHITECTURAL	<b>A-9</b> 9 of 31



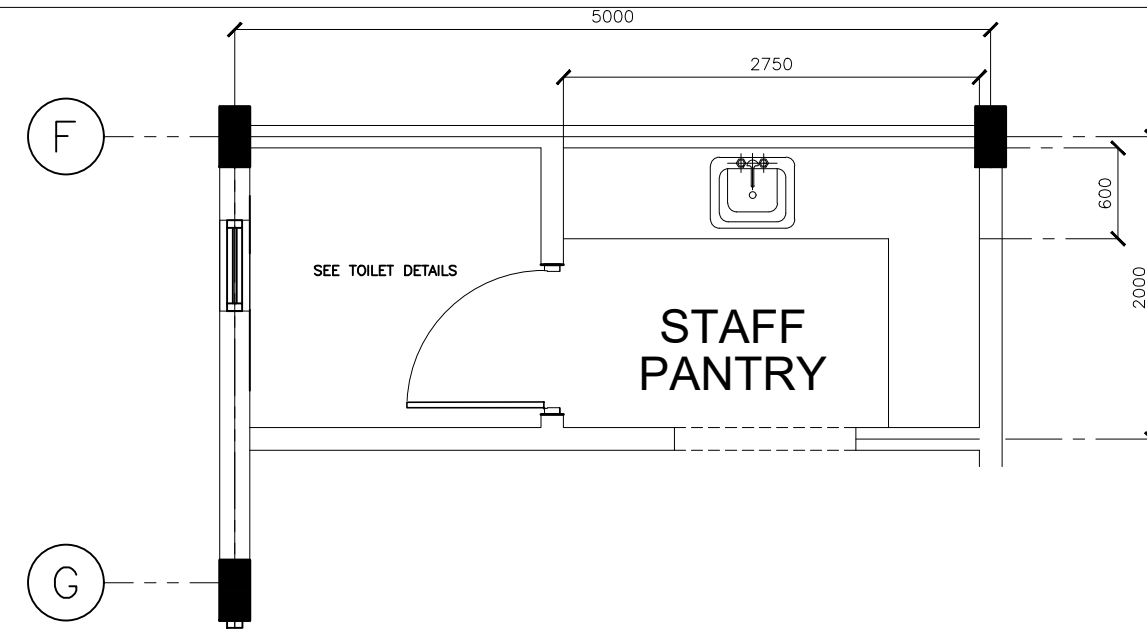
<p>FROM THE OFFICE OF:</p> <p>REPUBLIC OF THE PHILIPPINES          PROVINCE OF PAMPANGA</p> <p><b>PROVINCIAL ENGINEER'S OFFICE</b></p> <p>CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>PROJECT TITLE:</p> <p><b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b></p> <p>LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)</p>	<p>PREPARED BY:</p> <p><b>BRYAN Q. ALVARADO</b>          ENGINEER III</p> <p>CAD BY: IRVIN JOSEF D. CRUZ</p>	<p>CHECKED &amp; SUBMITTED BY:</p> <p><b>WILFREDO A. MANALILI</b>          ASSIST. PROVINCIAL ENGINEER</p>	<p>RECOMMENDING APPROVAL:</p> <p><b>OLIMPIO M. PANGAN</b>          PROVINCIAL ENGINEER</p>	<p>APPROVED BY:</p> <p><b>HON. DENNIS G. PINEDA</b>          Governor          By the Authority of the Governor:</p> <p><b>ATTY. CHARLIE G. CHUA</b>          PROVINCIAL ADMINISTRATOR</p>	<p>SHEET CONTENTS:</p> <p><b>AS SHOWN</b>          ARCHITECTURAL</p>	<p>SHEET NO.:</p> <p><b>A-10</b>          10 of 31</p>
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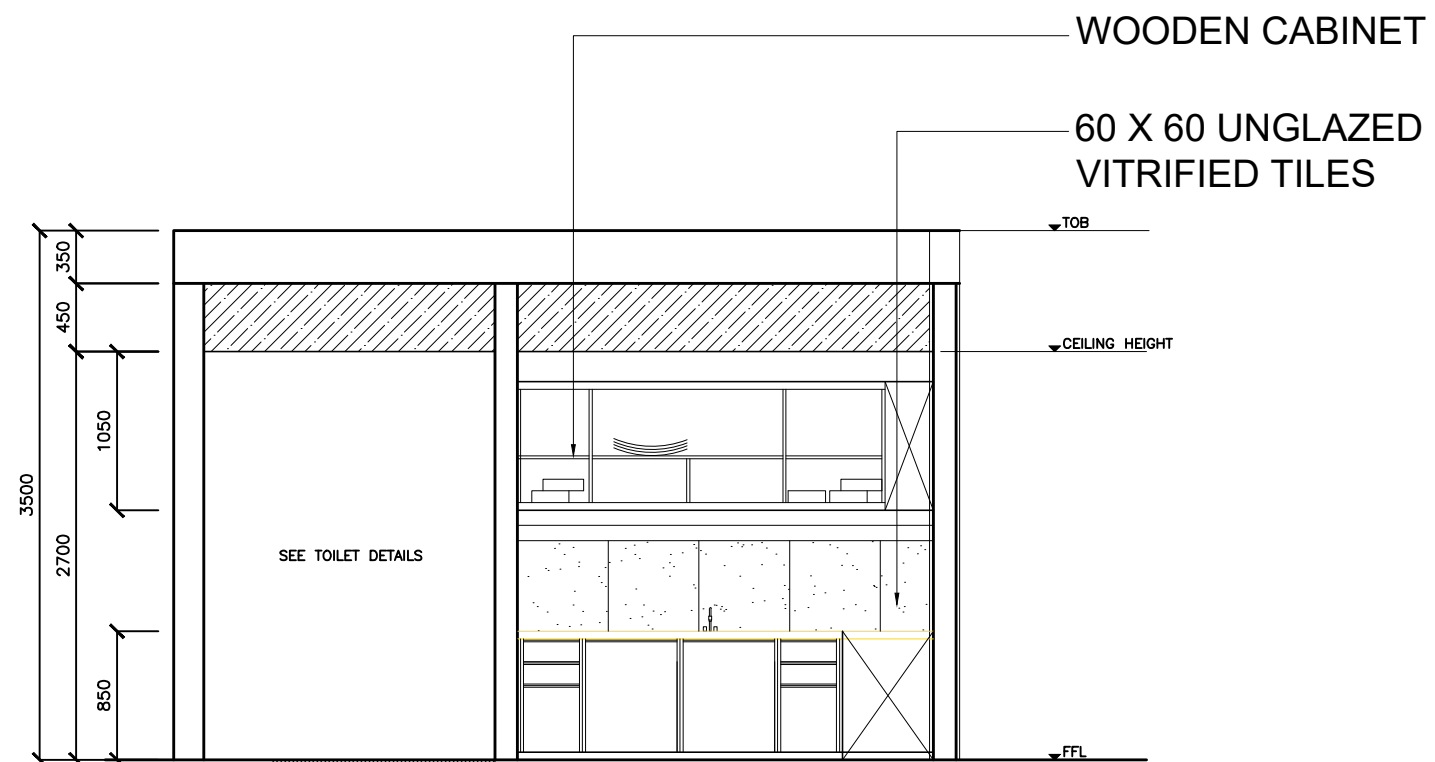
**A.11 LINEN ROOM LAYOUT**  
SCALE 1:50 MTS.



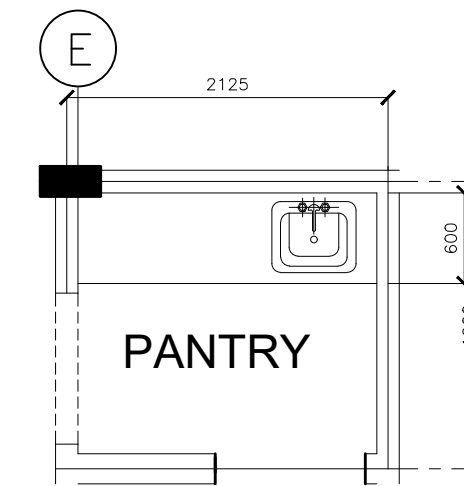
**A.11 ELEVATION OF LINEN ROOM**  
SCALE 1:50 MTS.



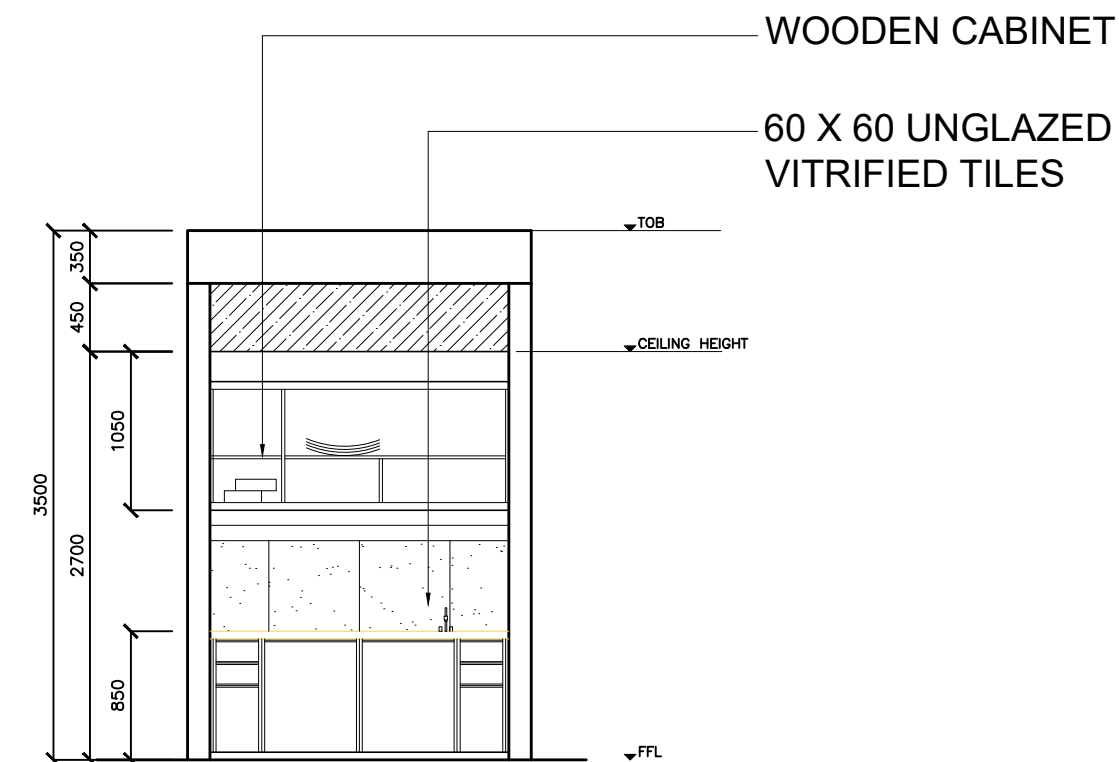
**A.11 STAFF PANTRY LAYOUT**  
SCALE 1:50 MTS.



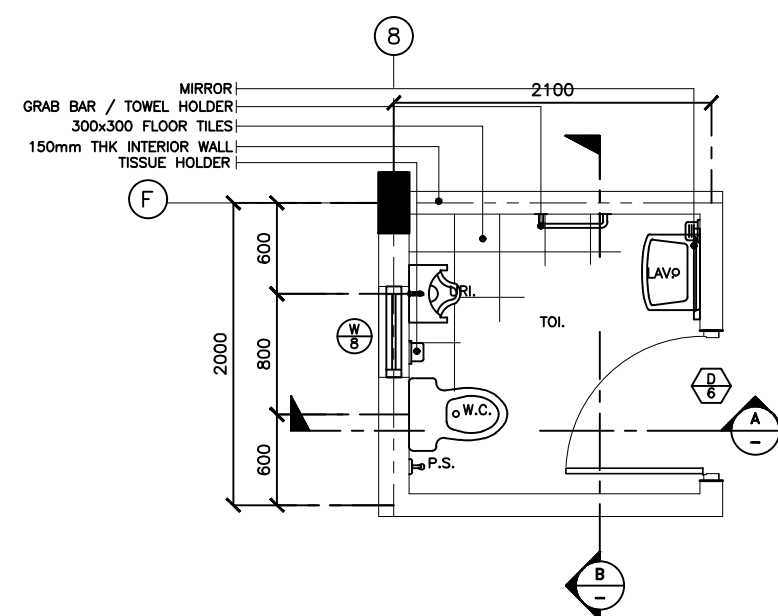
**A.11 ELEVATION OF STAFF PANTRY**  
SCALE 1:50 MTS.



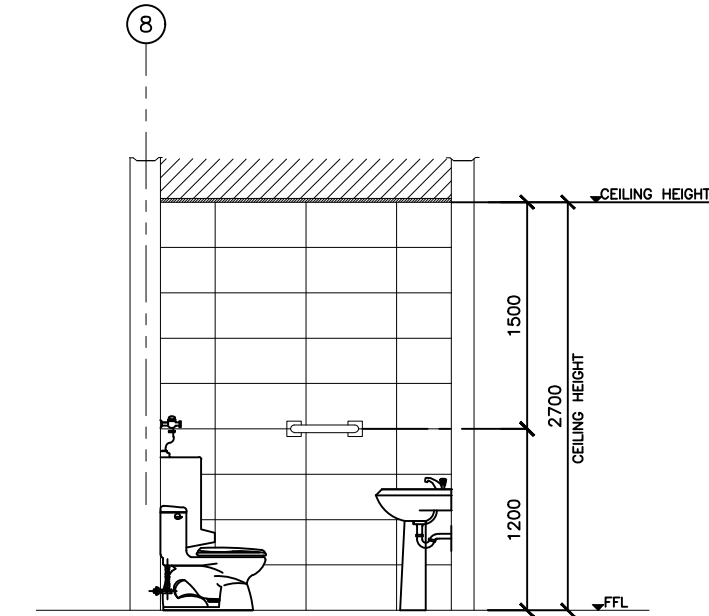
**A.11 PANTRY LAYOUT**  
SCALE 1:50 MTS.



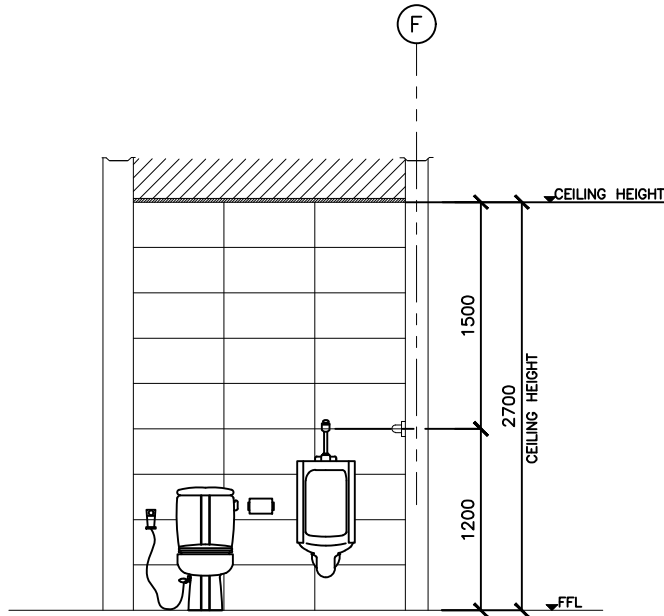
**A.11 ELEVATION OF PANTRY**  
SCALE 1:50 MTS.



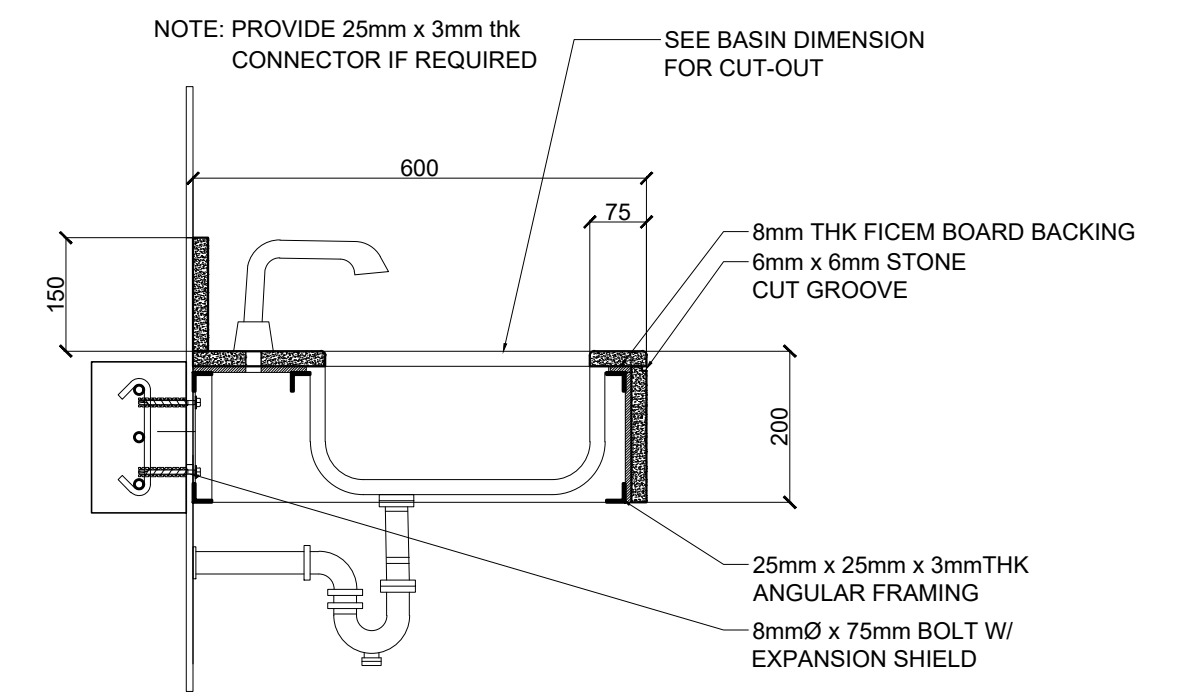
**A.11 DINING TOILET DETAIL**  
SCALE 1:50 MTS.



**A.11 DINING TOILET SECTION - A**  
SCALE 1:50 MTS.

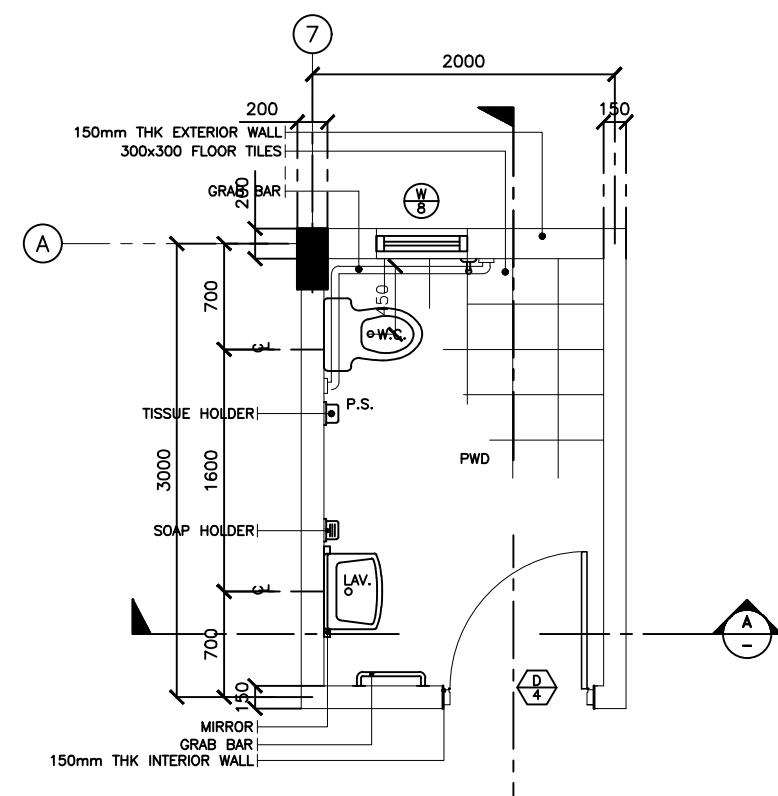


**A.11 DINING TOILET SECTION - B**  
SCALE 1:50 MTS.

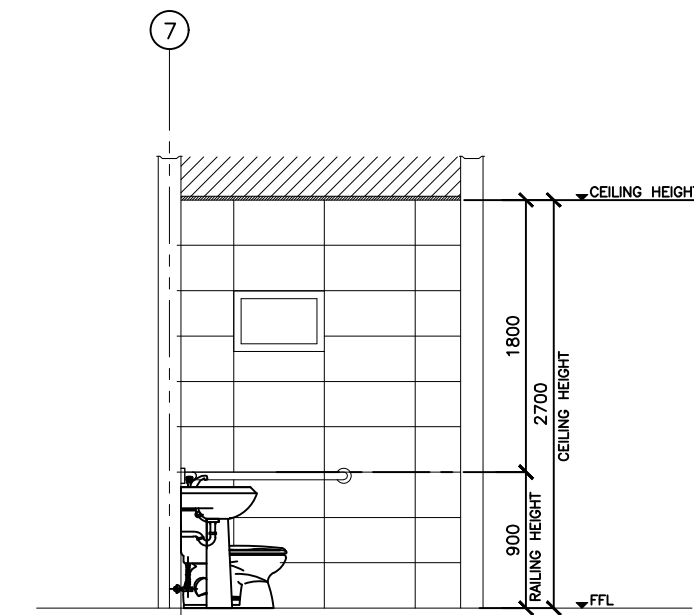


**UNDER MOUNTED BASIN DETAIL**  
SCALE 1:10 M

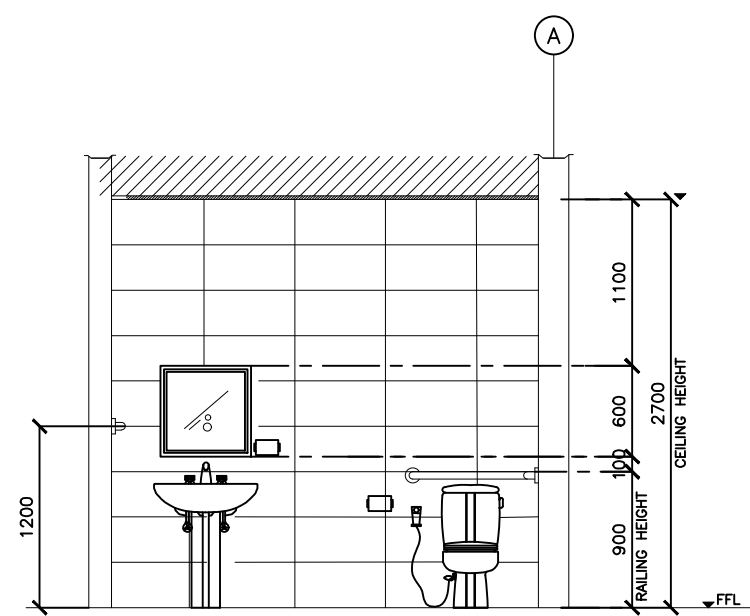
	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY:  <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY:  <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor:  <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.:  <b>A-11</b> 11 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: IRVIN JOSEF D. CRUZ		APPROVED BY:		SHEET NO.:	



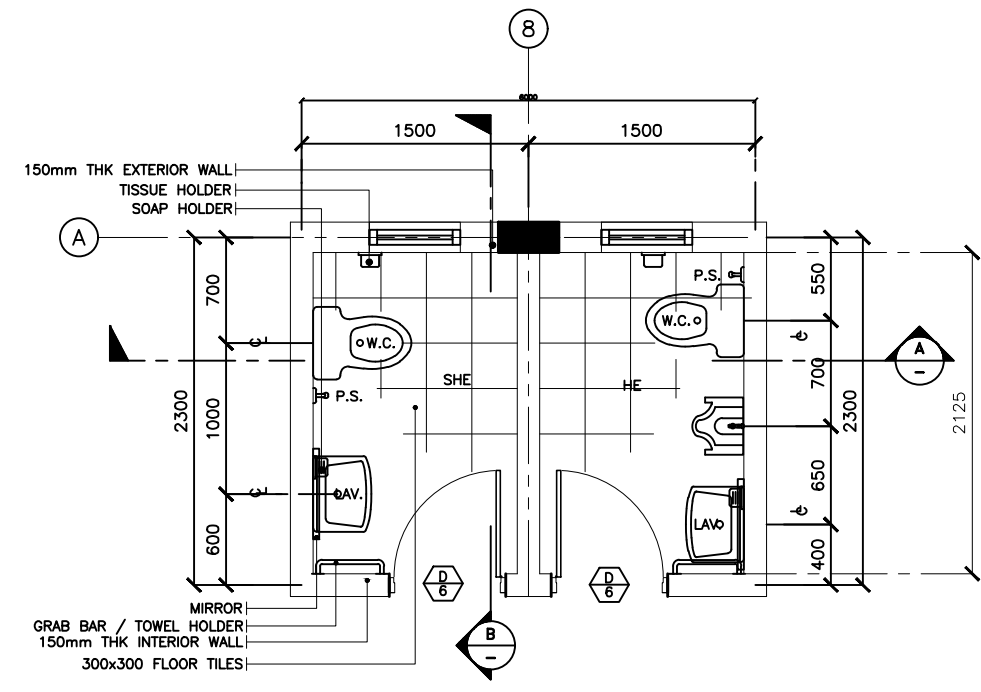
**A.12 PWD TOILET DETAIL**  
SCALE 1:50 MTS.



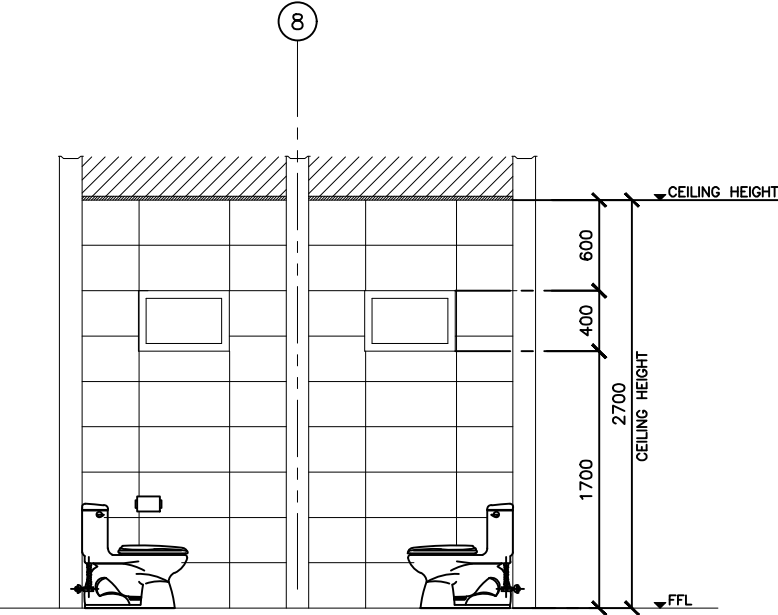
**A.12 PWD TOILET SECTION - A**  
SCALE 1:50 MTS.



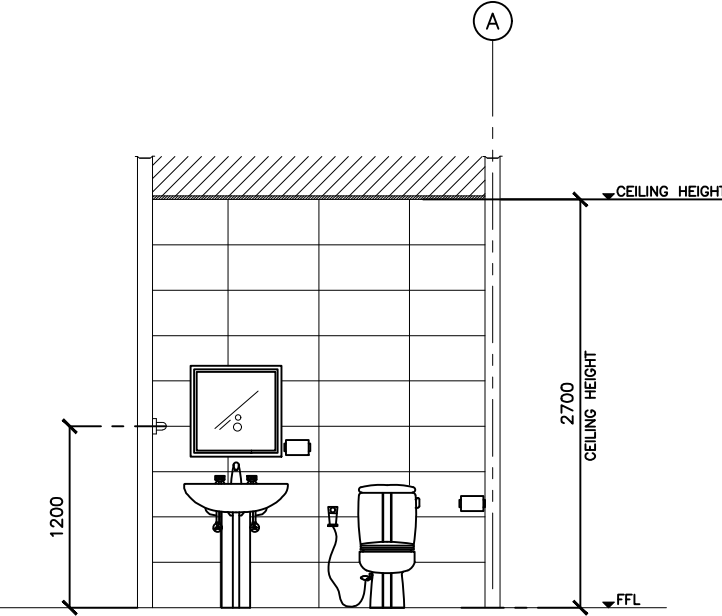
**A.12 PWD TOILET SECTION - B**  
SCALE 1:50 MTS.



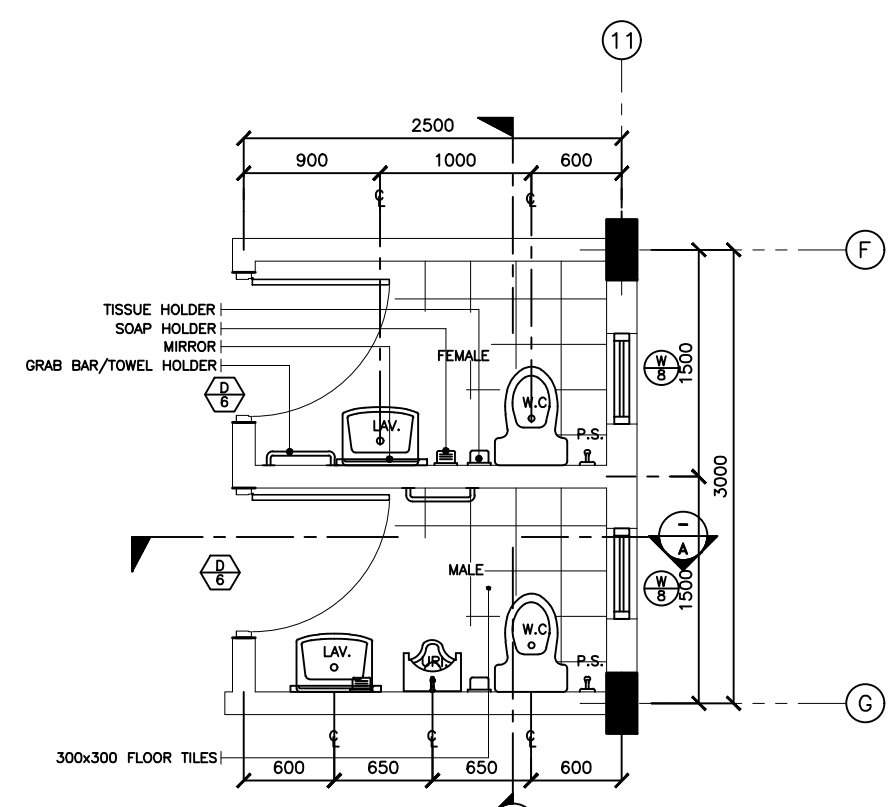
**A.12 PUBLIC TOILET DETAIL**  
SCALE 1:25 MTS.



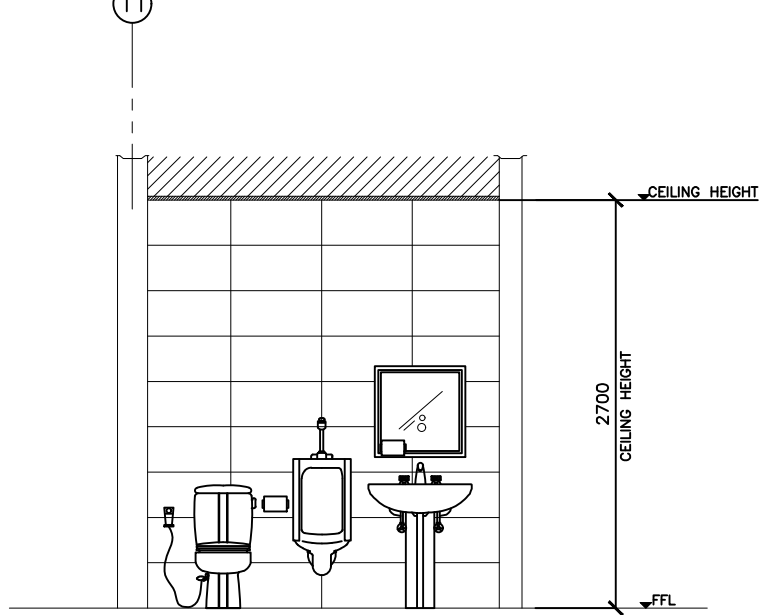
**A.12 PUBLIC TOILET SECTION - A**  
SCALE 1:25 MTS.



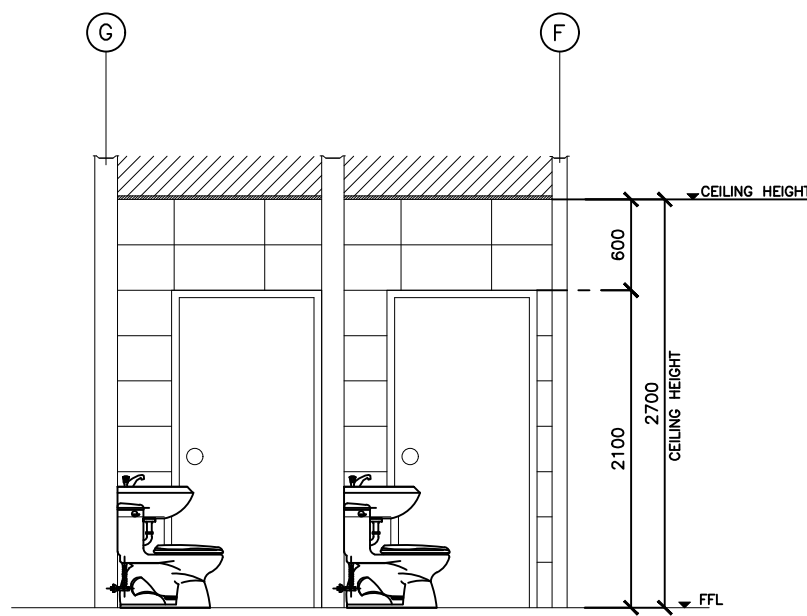
**A.12 PUBLIC TOILET SECTION - B**  
SCALE 1:25 MTS.



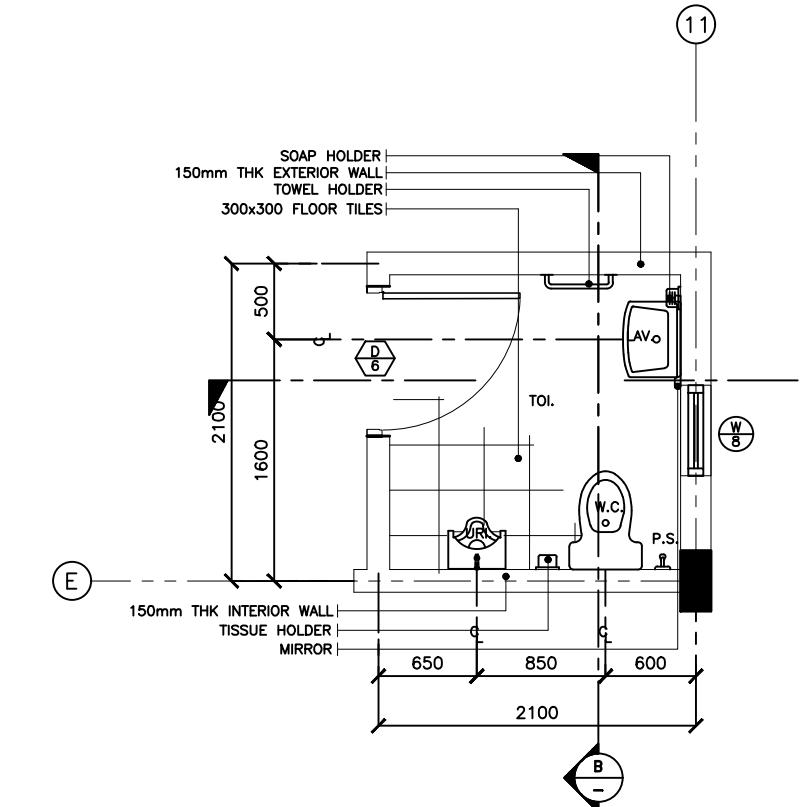
**A.12 DRESSING ROOM TOILET DETAIL**  
SCALE 1:25 MTS.



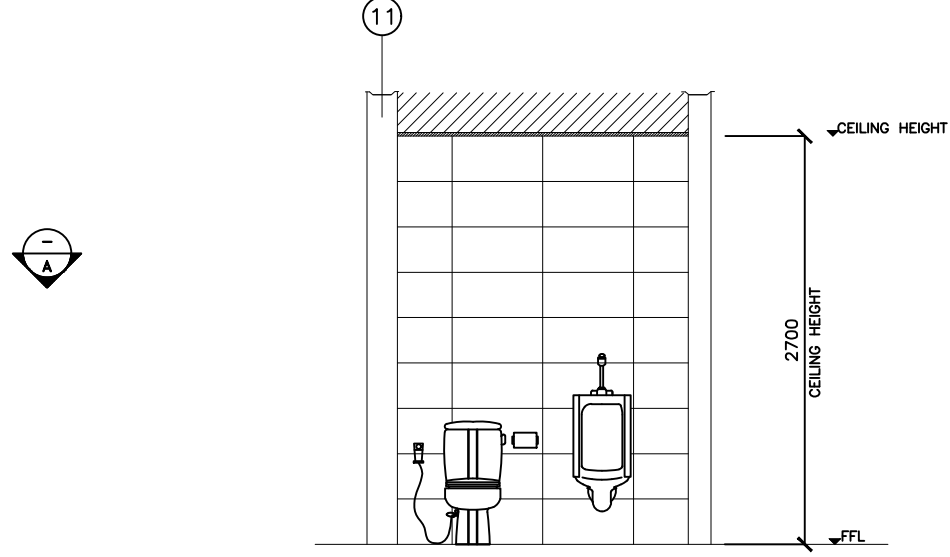
**A.12 DRESSING ROOM TOILET SECTION - A**  
SCALE 1:25 MTS.



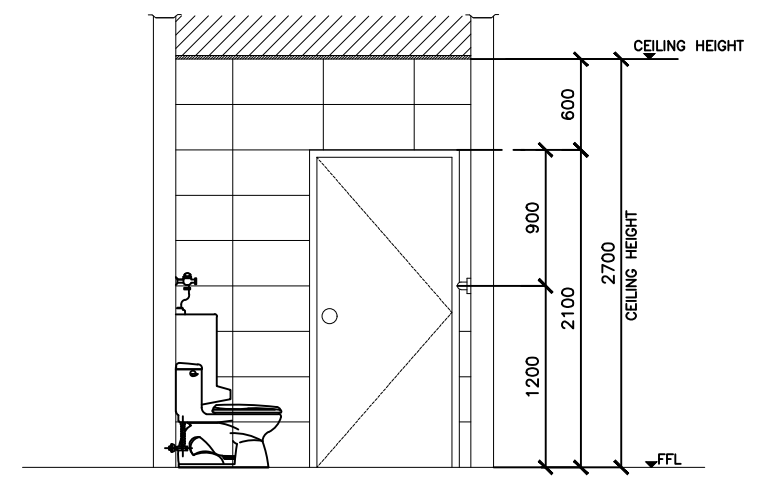
**A.12 DRESSING ROOM TOILET SECTION - B**  
SCALE 1:25 MTS.



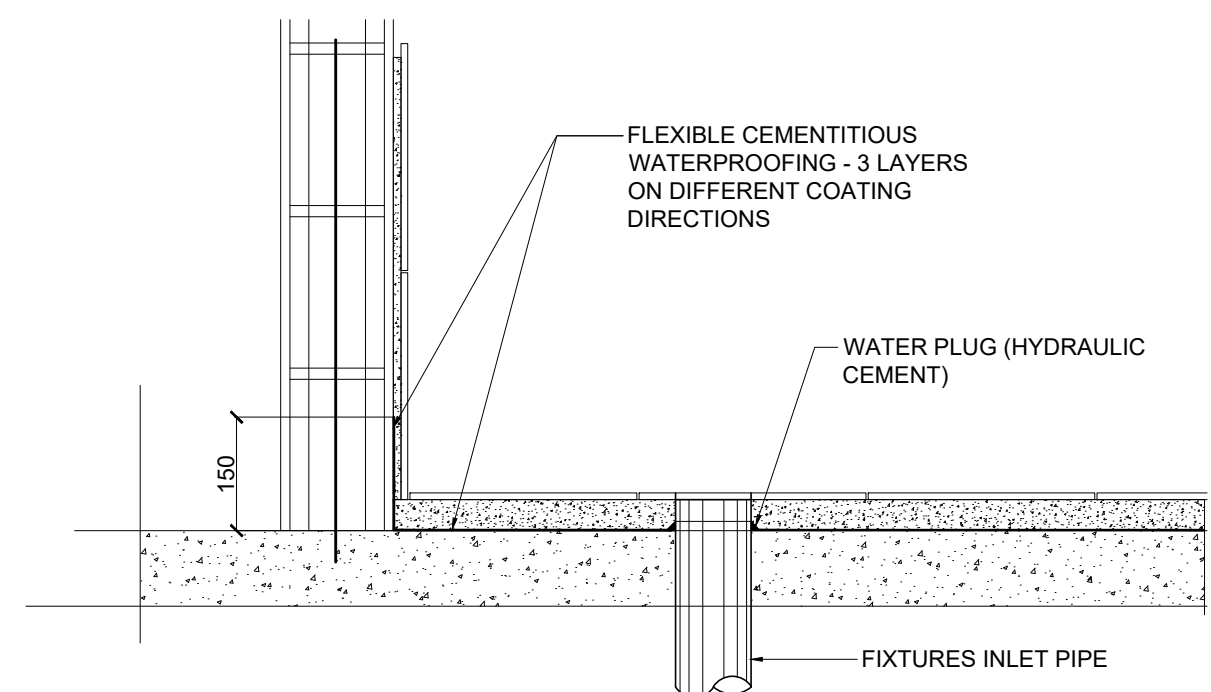
**A.12 DOCTOR'S LOUNGE TOILET DETAIL**  
SCALE 1:25 MTS.



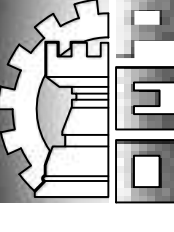
**A.12 DOCTOR'S LOUNGE TOILET SECTION A**  
SCALE 1:25 MTS.

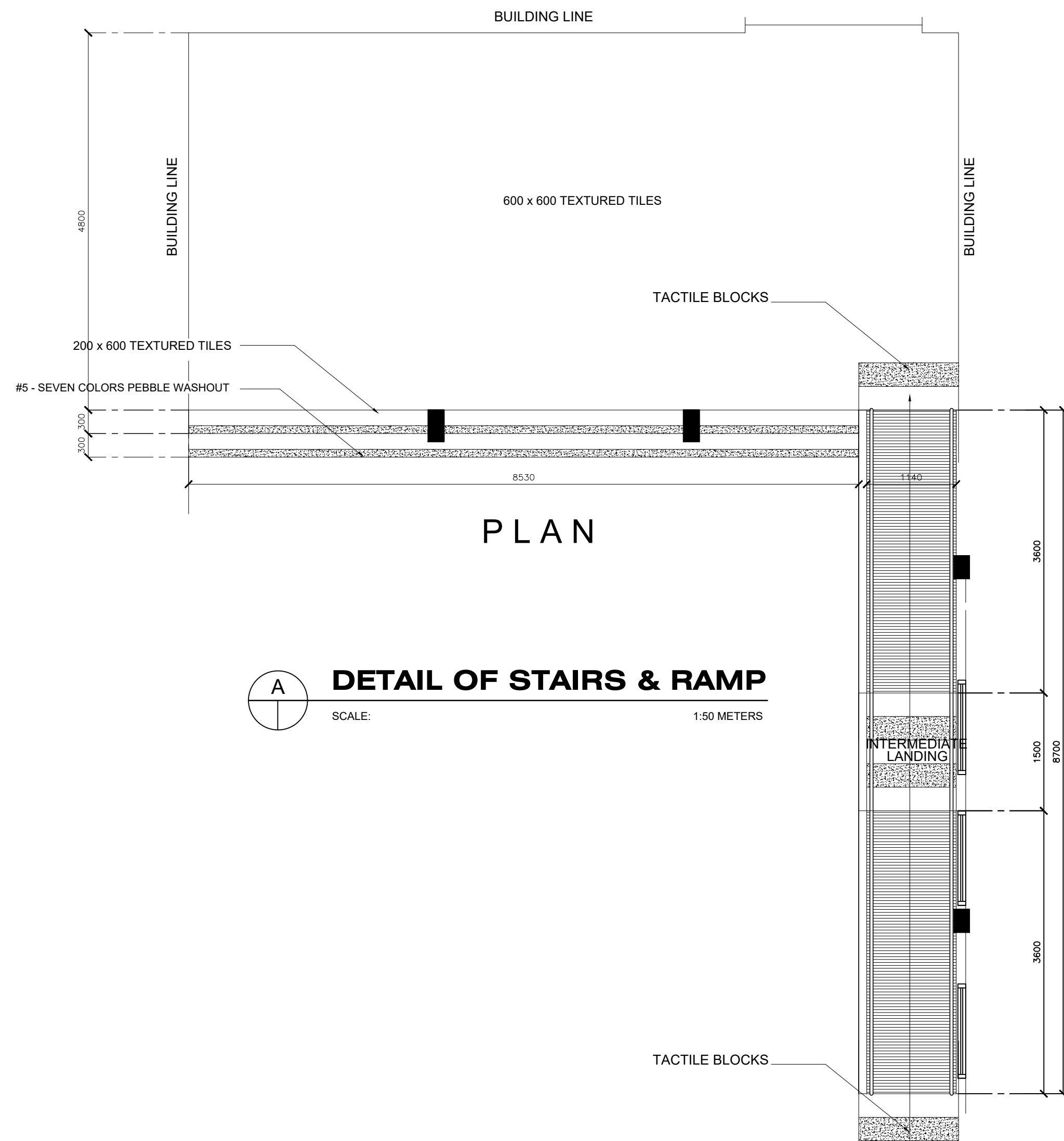


**A.12 DOCTOR'S LOUNGE TOILET SECTION B**  
SCALE 1:25 MTS.

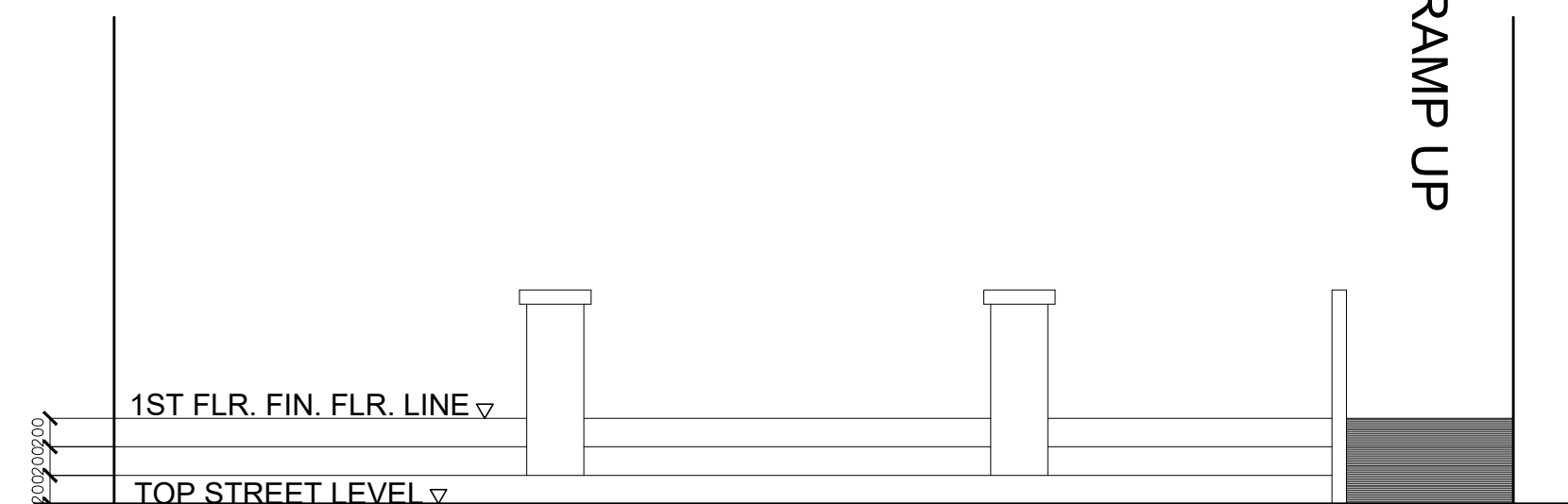


**WATERPROOFING DETAIL ON CR AREA**  
SCALE 1:10 M

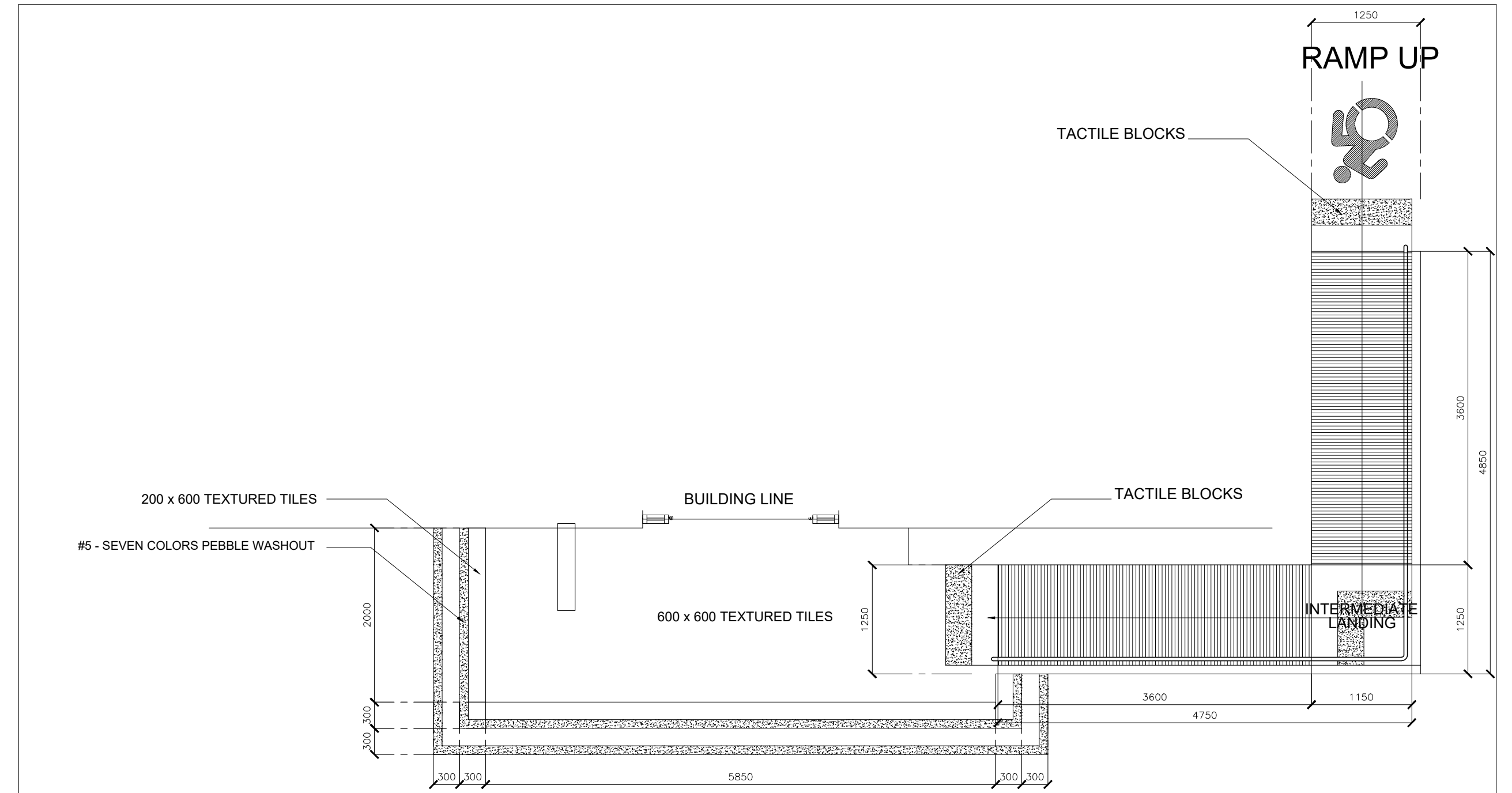
	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY:  <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY:  <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor:  <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.:  <b>A-12</b> 12 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: IRVIN JOSEF D. CRUZ					



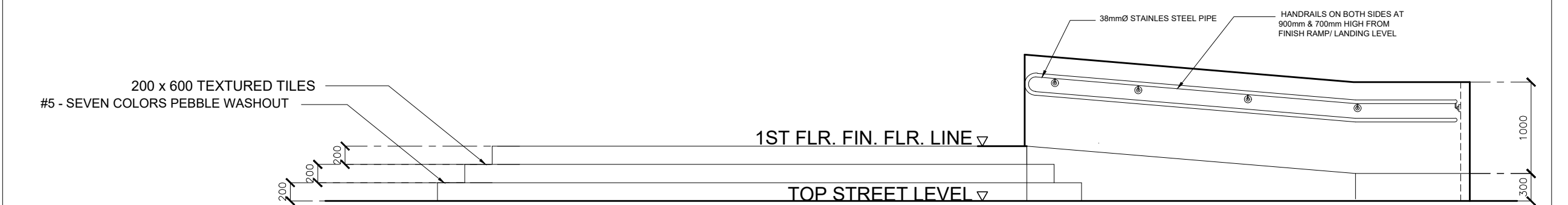
**DETAIL OF STAIRS & RAMP**  
SCALE: 1:50 METERS



**ELEVATION**

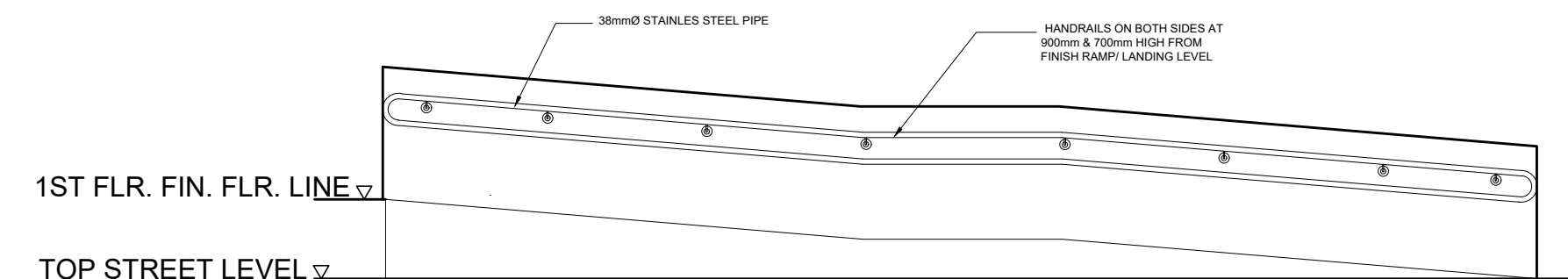


**PLAN**



**ELEVATION**

**DETAIL OF STAIRS & RAMP**  
SCALE: 1:50 METERS



**ELEVATION**

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> ARCHITECTURAL	SHEET NO.: <b>A-13</b> 13 of 37
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: IRVIN JOSEF D. CRUZ					



# GENERAL NOTES & STANDARDS

## 1. DESIGN STRESS

- A. CONCRETE :  
 COMPRESSIVE STRENGTH @ 28 DAYS = 3,000 PSI / 20.7 MPa
- B. REINFORCING BARS :  
 a. 12 mm  $\phi$  & GREATER = GR. 40 / 275 MPa  
 b. 10 mm  $\phi$  & BELOW = GR. 33 / 230 MPa
- C. STRUCTURAL STEEL, ASTM-A36:  
 FOR TRUSSES, BRACINGS, ETC. = GR. 36 / 248 MPa
- D. PURLINS  
 COLD FORMED LIGHT GAGE SHAPES = GR. 36 / 248 MPa
- E. MASONRY UNIT (CHB)  
 NON-LOAD BEARING CHB WALLS = GR. 05 / 3.45 MPa
- G. STRUCTURAL BOLTS, ASTM-A307  
 a. FT = GR. 14 / 96.60 MPa  
 b. FV = GR. 10 / 69.00 MPa

## 2. MATERIALS

- A. CONCRETE :
- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS :
 

a. FOOTINGS, FOOTING-TIE BEAMS	75 mm
b. BEAMS & COLUMNS	40 mm
c. SUSPENDED SLAB	20 mm
  - BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.
- B. REINFORCING BARS
- ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.
  - ALL REINFORCING BARS SHALL BE ACCURATELY & SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT
  - LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
  - UNLESS OTHERWISE INDICATED, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI-318M, EXCEPT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600 mm.
    - INTERMEDIATE BEAMS : TOP BARS SHALL BE SPLICED MID-SPAN & BOTTOM BARS AT THE SUPPORT.
    - BEAMS FRAMING TO COLUMNS : TOP BARS SHALL BE SPLICED AT MID-SPAN & BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN W/IN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH ( $L_d$ ) BUT NOT LESS THAN 600 mm.
    - COLUMNS : LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USED OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600 mm.
    - CHB WALLS : VERTICAL BARS SHALL BE SPLICED AT THE TOP OF THE WALL FOOTINGS OR FOOTING-TIE BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LINTEL BEAMS OR BEAMS.
  - UNLESS OTHERWISE INDICATED, ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE AND SHALL NOT BE LESS THAN 600 mm.
  - SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.

## C. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS,  $F_y = 248 \text{ MPa}$  (36,000 psi).
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMMENDED TO DATE.
- ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE INDICATED.
- SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.
- UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E60.
- NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- ANCHOR BOLTS CONFORM WITH ASTM A-307

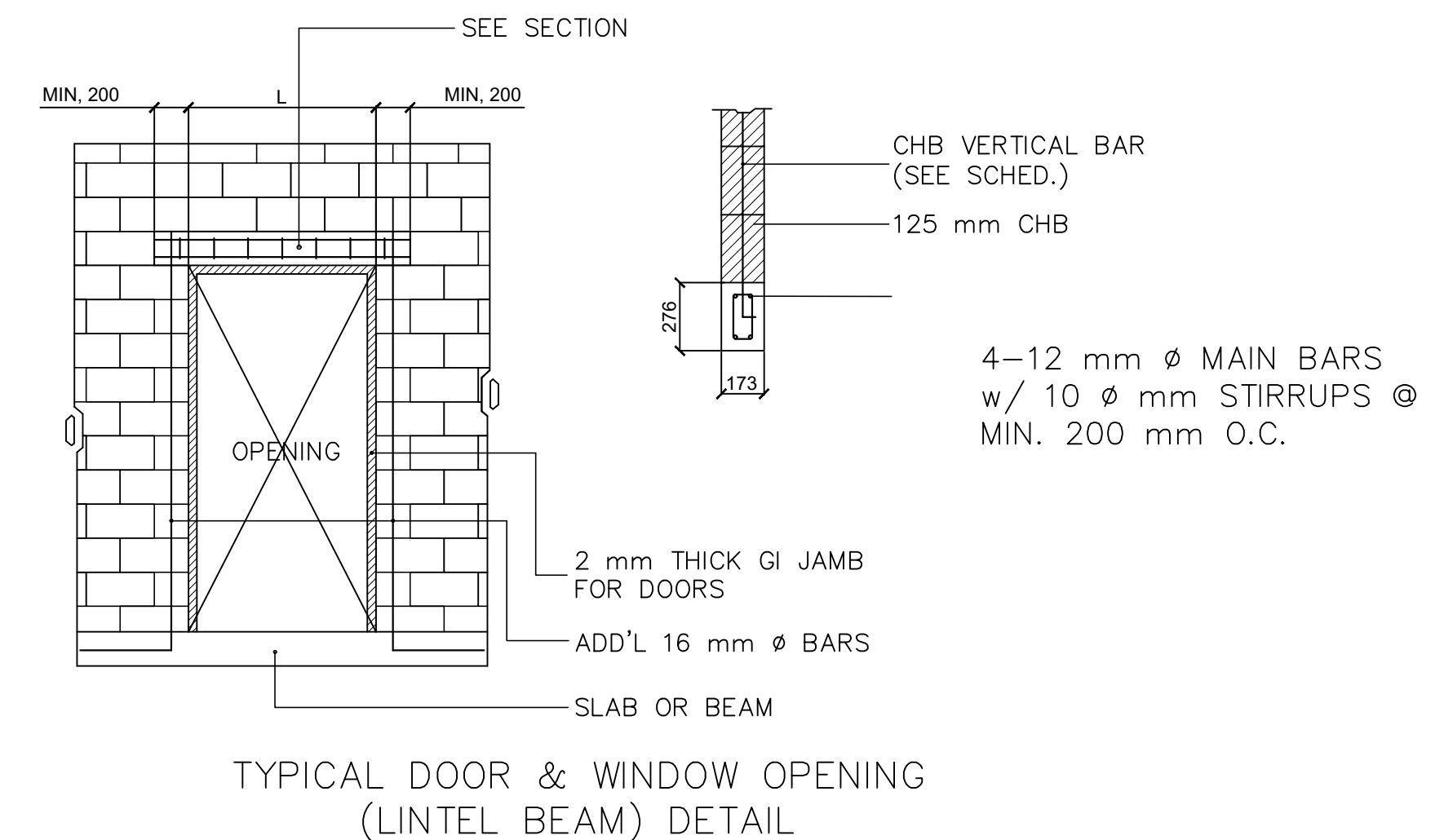
## D. CONCRETE HOLLOW BLOCKS (CHB)

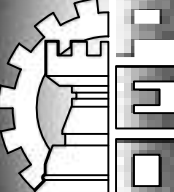
- UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH,  $F'_m = 3.45 \text{ MPa}$  (500 psi).
- ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT
- SCHEDULE OF HOLLOW BLOCK REINFORCEMENT
 

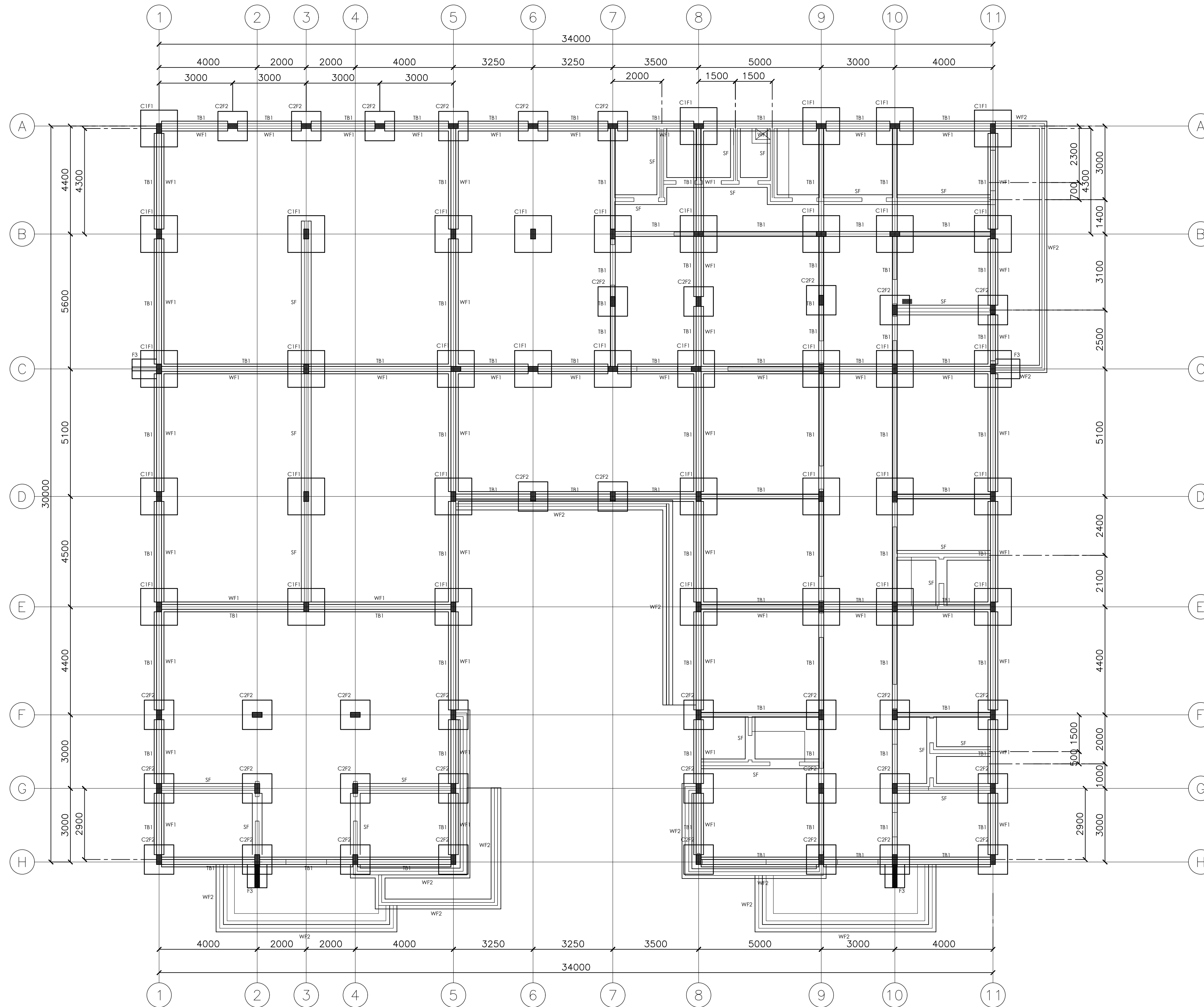
BLOCK THICKNESS	VERTICAL	HORIZONTAL
125 mm	600 mm	600 mm
150 mm	600 mm	600 mm
- SEE BELOW FOR DOOR & WINDOW OPENING DETAIL.

## E. CONSTRUCTION JOINTS

- CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.
- UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 2000 mm MAXIMUM, CENTER TO CENTER.
- BEAMS CONSTRUCTION JOINT SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. ON EACH SIDE OF THE JOINT.



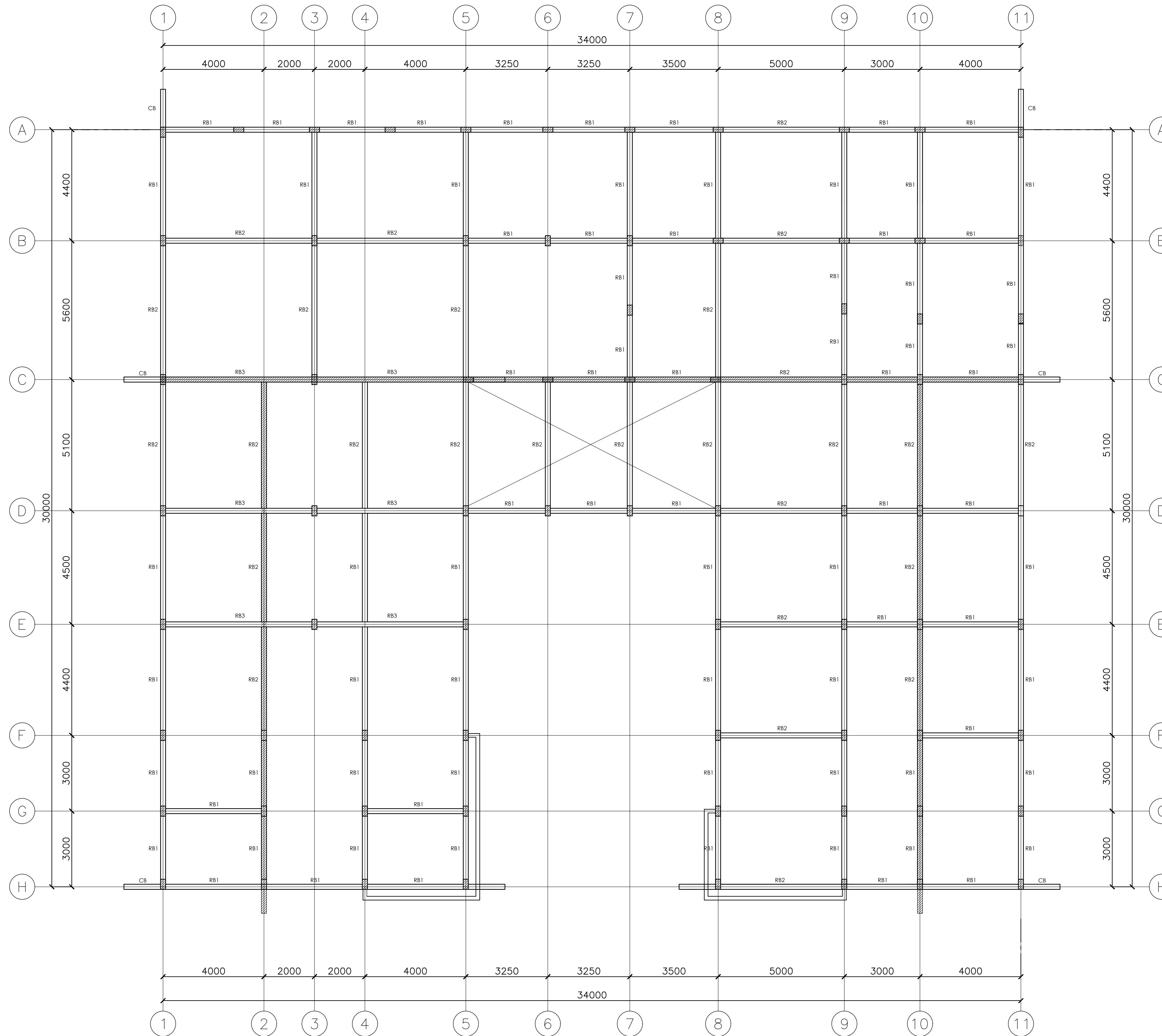
 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF                  MULTI-PURPOSE BUILDING                  (DIALYSIS CENTER)</b> LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY:	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor                  By the Authority of the Governor:</small> <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> STRUCTURAL	SHEET NO.: <b>S-1</b> 15 of 31
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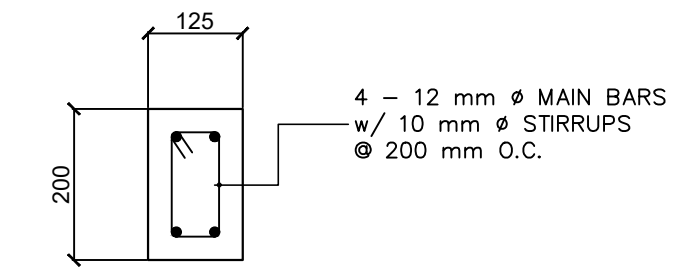
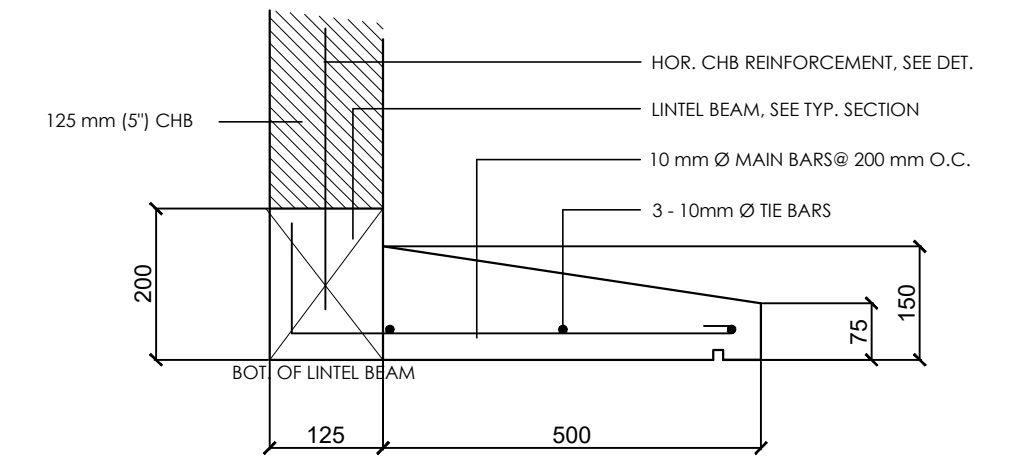
**FOUNDATION PLAN**  
 SCALE: 1:100 METERS

<p style="text-align: center; font-size: small;">             FROM THE OFFICE OF:              REPUBLIC OF THE PHILIPPINES              PROVINCE OF PAMPANGA    <b>PROVINCIAL ENGINEER'S OFFICE</b>              CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)         </p>	<p style="text-align: center; font-size: small;">             PROJECT TITLE:    <b>CONSTRUCTION OF              MULTI-PURPOSE BUILDING              (DIALYSIS CENTER)</b>              LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)         </p>	<p style="text-align: center; font-size: small;">             PREPARED BY:    <b>BRYAN Q. ALVARADO</b>              ENGINEER III              CAD BY:         </p>	<p style="text-align: center; font-size: small;">             CHECKED &amp; SUBMITTED BY:    <b>WILFREDO A. MANALILI</b>              ASSIST. PROVINCIAL ENGINEER         </p>	<p style="text-align: center; font-size: small;">             RECOMMENDING APPROVAL:    <b>OLIMPIO M. PANGAN</b>              PROVINCIAL ENGINEER         </p>	<p style="text-align: center; font-size: small;">             APPROVED BY:    <b>HON. DENNIS G. PINEDA</b>  <small>Governor              By the Authority of the Governor:</small>    <b>ATTY. CHARLIE G. CHUA</b>              PROVINCIAL ADMINISTRATOR         </p>	<p style="text-align: center; font-size: small;">             SHEET CONTENTS:    <b>AS SHOWN</b>              STRUCTURAL         </p>	<p style="text-align: center; font-size: small;">             SHEET NO.:    <b>S-2</b>              16 of 31         </p>
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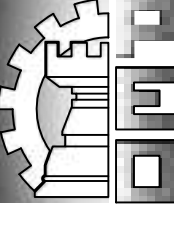


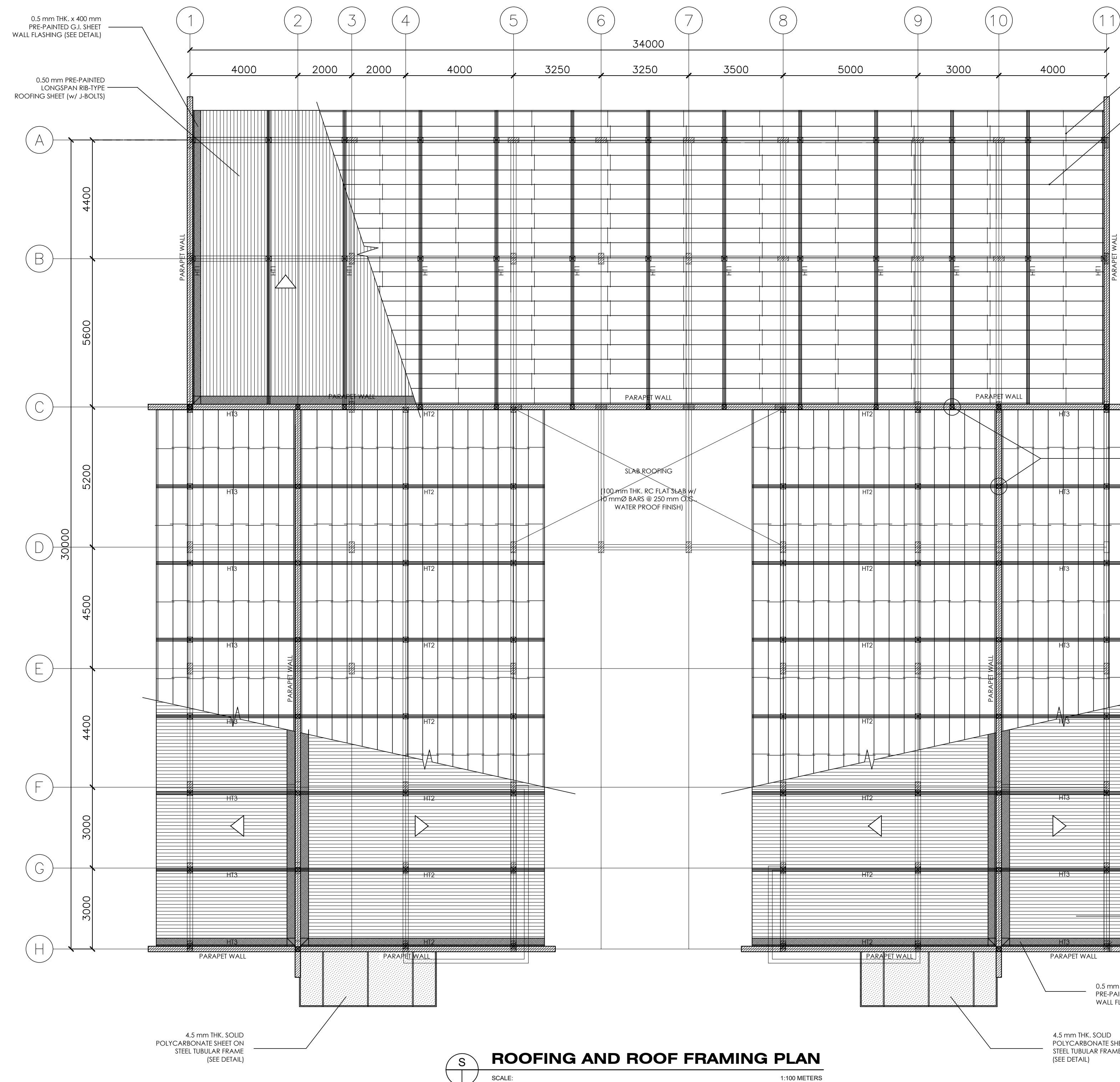


**ROOF FRAMING PLAN**  
SCALE: 1:100 METERS



**DET. LINTEL BEAM FOR OPENINGS (TYP.)**  
SCALE: 1:10 METERS

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b> LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY:	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN STRUCTURAL	SHEET NO.: <b>S-3</b> 17 of 31



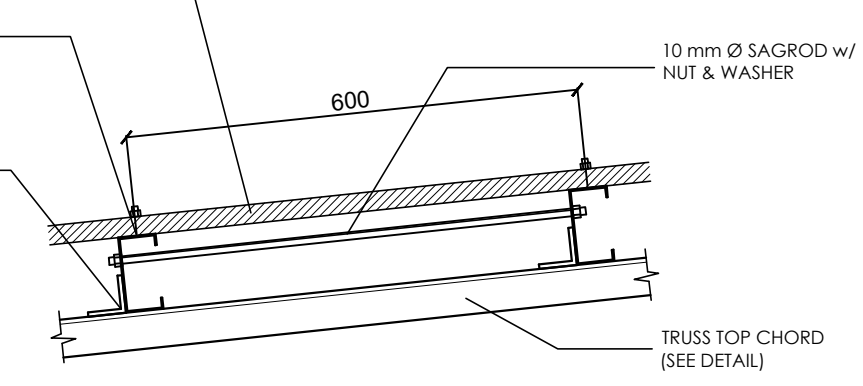
10 mm Ø SAGRODS w/ NUT AND WASHER (TYPICAL)

50 x 100 x 1.50 mm THK. C-CHANNEL PURLINS WELDED ON TOP CHORD (TYPICAL)

0.50 mm PRE-PAINTED LONGSPAN RIB-TYPE ROOFING SHEET (w/ J-BOLTS)

50 x 100 x 1.50 mm THK. C-CHANNEL PURLINS WELDED ON TOP CHORD

50 x 50 x 6 mm THK. ANGLE BAR BRACKET WELDED ON TOP CHORD



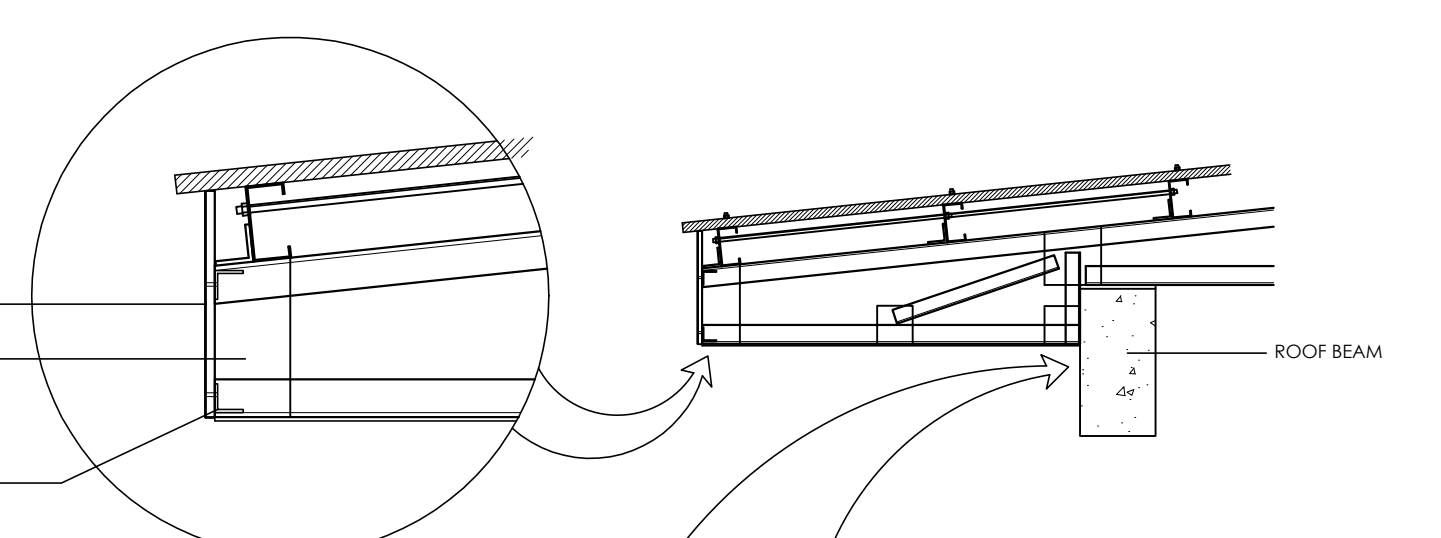
**DETAIL OF PURLINS (TYP.)**  
SCALE: 1:20

PLANTED COLUMN, TYPICAL (SEE DETAIL)

300 mm x 12 mm THK. HARDI-FASCIA BOARD

6 mm THK. MS PLATE

2 - 38 x 38 x 3.5 mm THK. ANGLE BAR FASCIA BRACKET



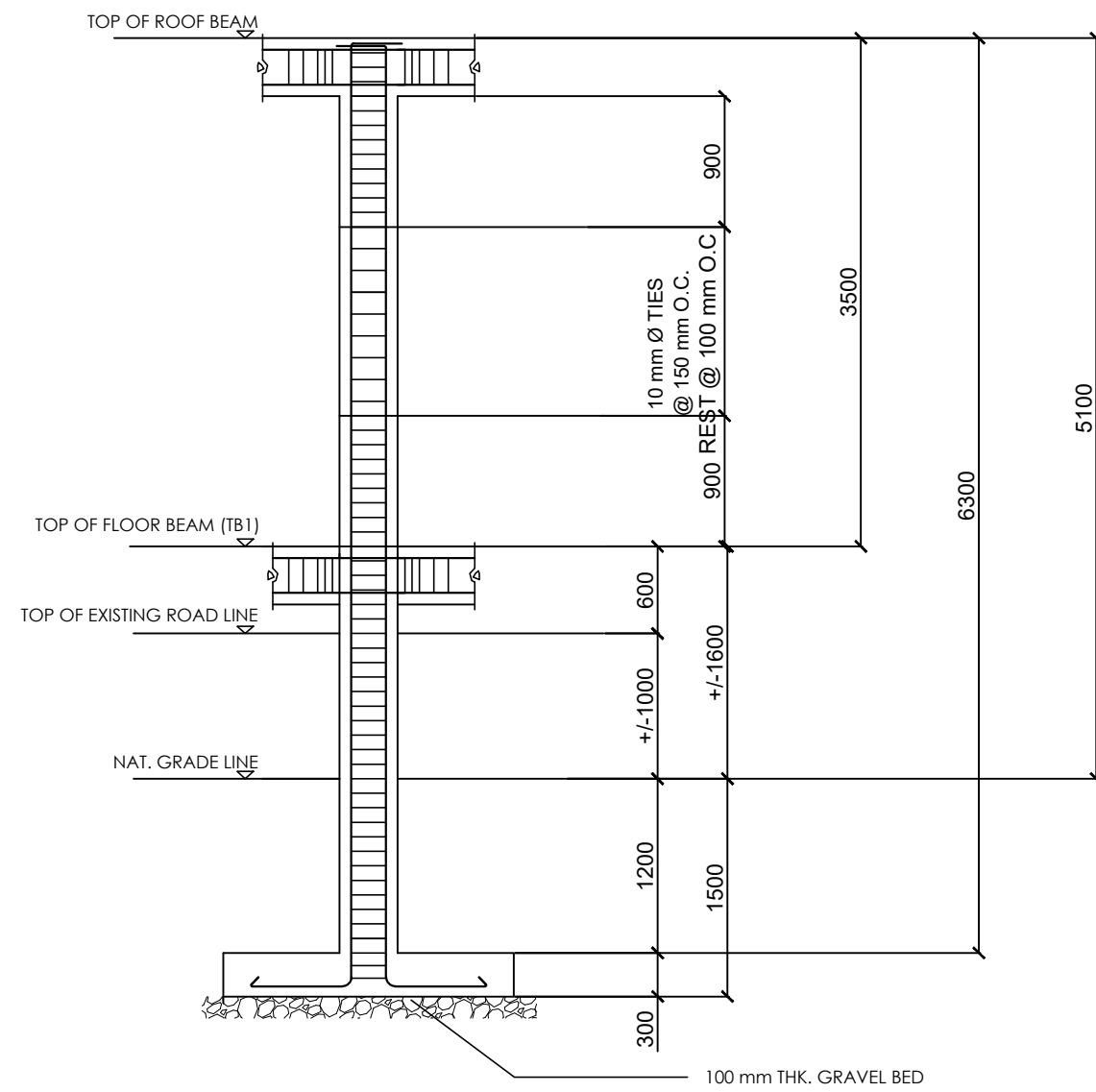
**DETAIL OF EAVES (TYPICAL)**  
SCALE: 1:20

4.5 mm THK. SOLID POLYCARBONATE SHEET ON STEEL TUBULAR FRAME (SEE DETAIL)

0.5 mm THK. x 400 mm PRE-PAINTED G.I. SHEET WALL FLASHING (SEE DETAIL)

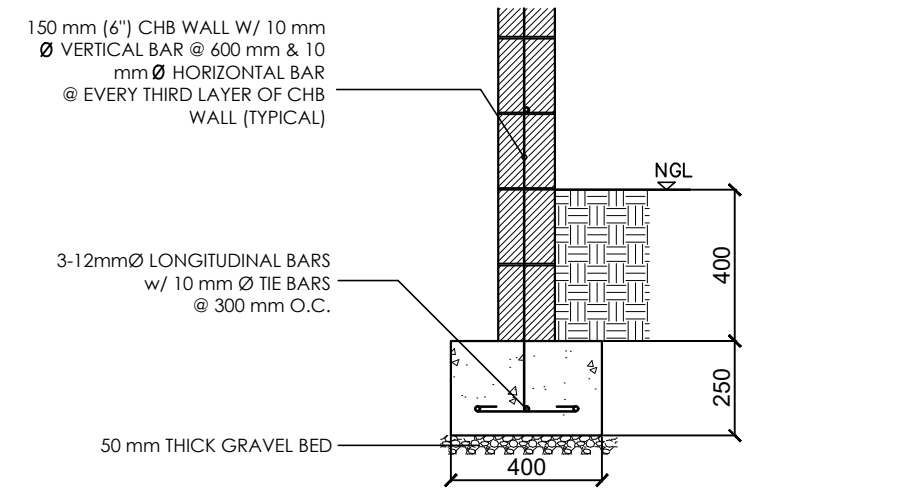
**ROOFING AND ROOF FRAMING PLAN**  
SCALE: 1:100 METERS

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b> LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY:	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN STRUCTURAL	SHEET NO.: <b>S-4</b> 18 of 31

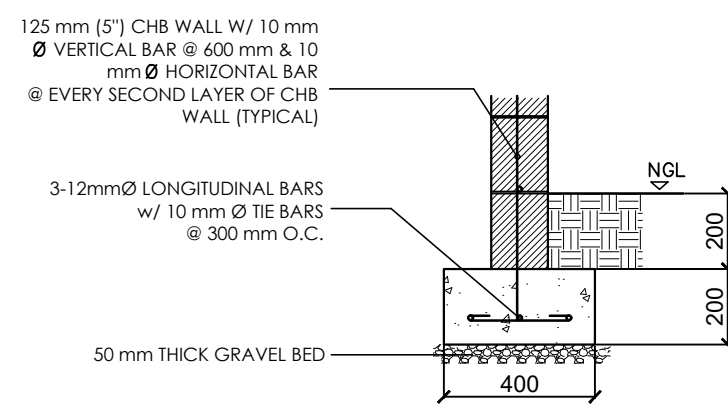


**FULL BAY SECTION**  
SCALE: 1:50

SCHEDULE OF COLUMNS			
	C1 = X UNITS	C2 = X UNITS	C3 = 17 UNITS
SECTION			
MAIN BARS	6 - 16 mm Ø	6 - 16 mm Ø	4 - 10 mm Ø
TIE BARS	10 mm Ø	10 mm Ø	10 mm Ø TIES @ 100 mm O.C.

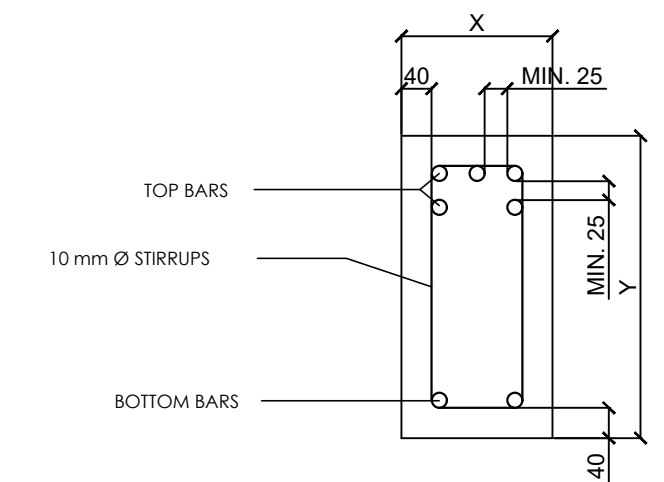


**DETAIL OF WALL FOOTING 1 (WF1)**  
SCALE: 1:20

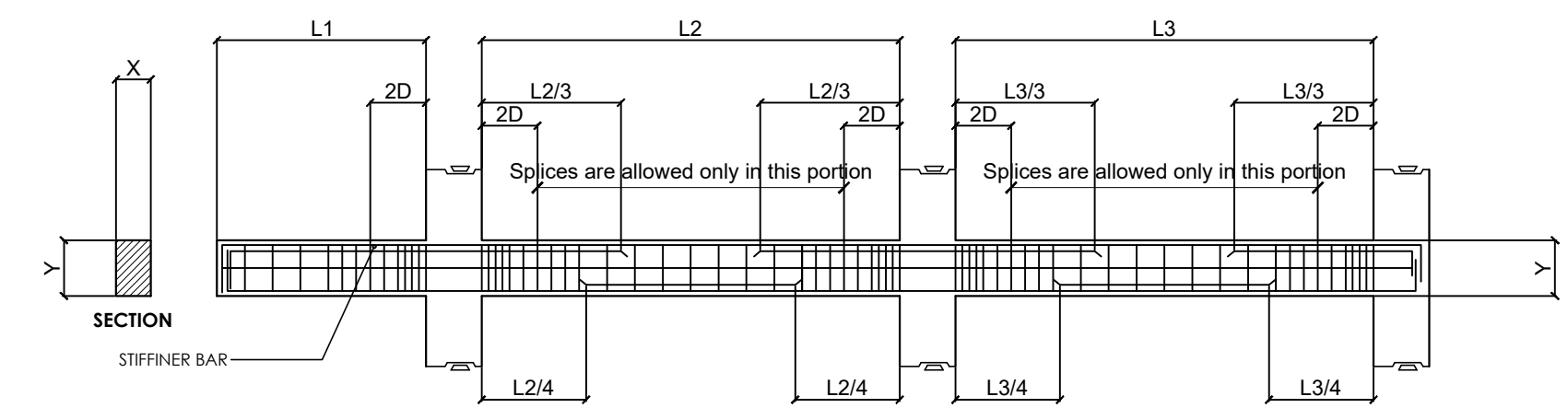


**DETAIL OF WALL FOOTING 2 (WF2)**  
SCALE: 1:20

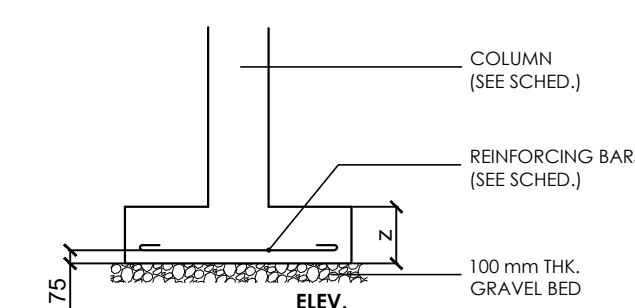
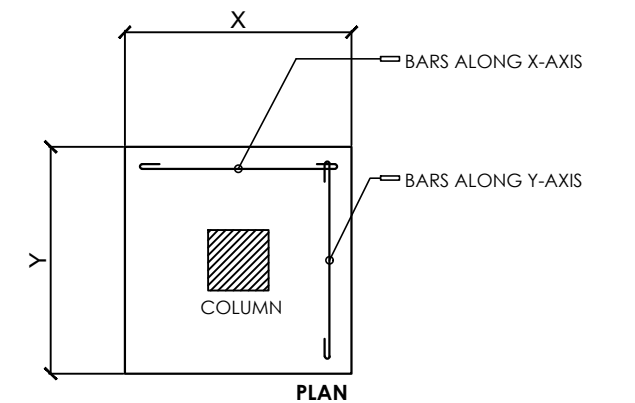
BEAM MARK	SIZE X(mm) Y(mm)	MAIN REINFORCEMENTS (GR. 40)				10 mm Ø STIRRUPS SPACING	REMARKS
		LEFT SUPPORT TOP BAR BOT. BAR	MIDSPAN TOP BAR BOT. BAR	RIGHT SUPPORT TOP BAR BOT. BAR	SECTION		
TB/FB	175 300	2-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2 Ø 50 mm 4 Ø 75 mm 6 Ø 100 mm & REST Ø 200 mm	
RB1	200 400	2-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2 Ø 50 mm 4 Ø 75 mm 6 Ø 100 mm & REST Ø 200 mm	
RB2	200 400	3-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2 Ø 50 mm 6 Ø 100 mm & REST Ø 200 mm	
RB3	200 450	4-16mm Ø	2-16mm Ø	4-16mm Ø	2-16mm Ø	2 Ø 50 mm 6 Ø 100 mm & REST Ø 200 mm	PROVIDE ADD'L 2-12 mm Ø STIFFENER BARS
CB	150 300	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 Ø 50 mm 4 Ø 75 mm 6 Ø 100 mm & REST Ø 200 mm	



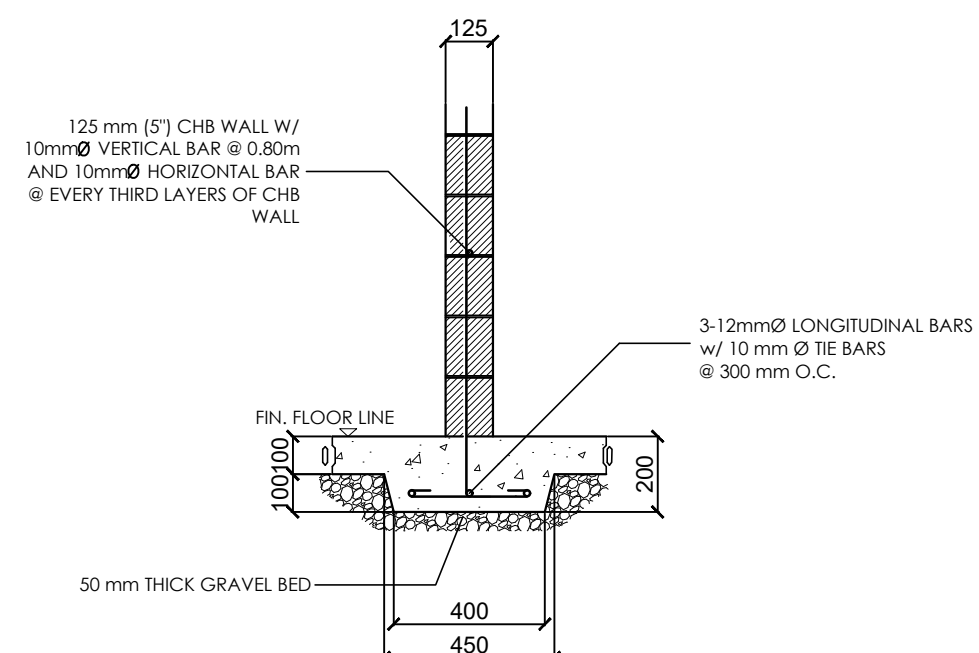
**TYP. BEAM DETAIL**  
SCALE: 1:10



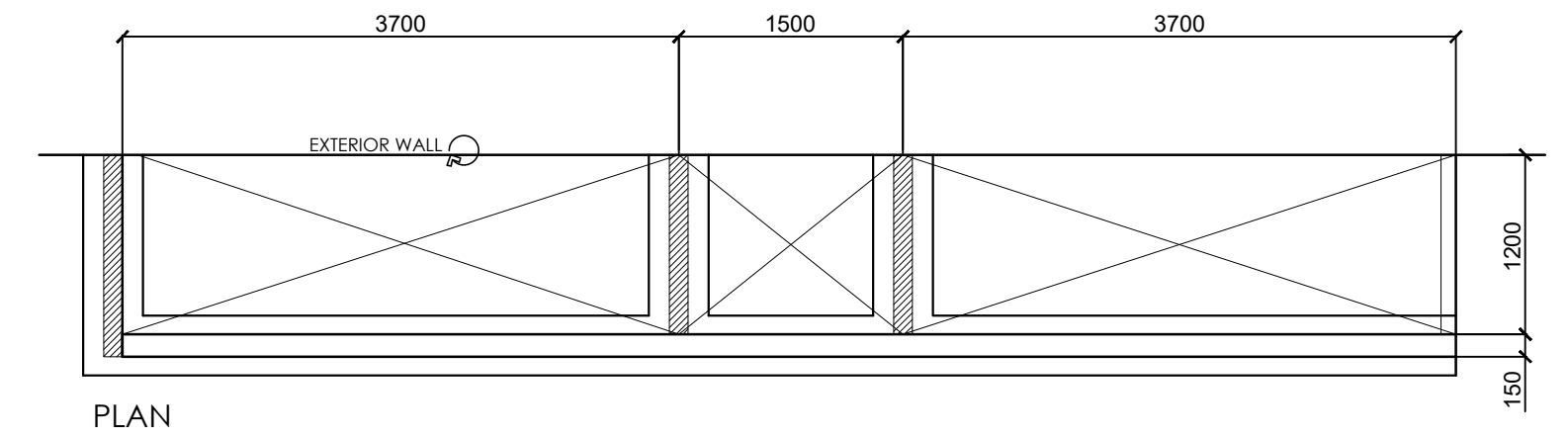
**TYPICAL BEAM ELEVATION**  
SCALE: NTS.



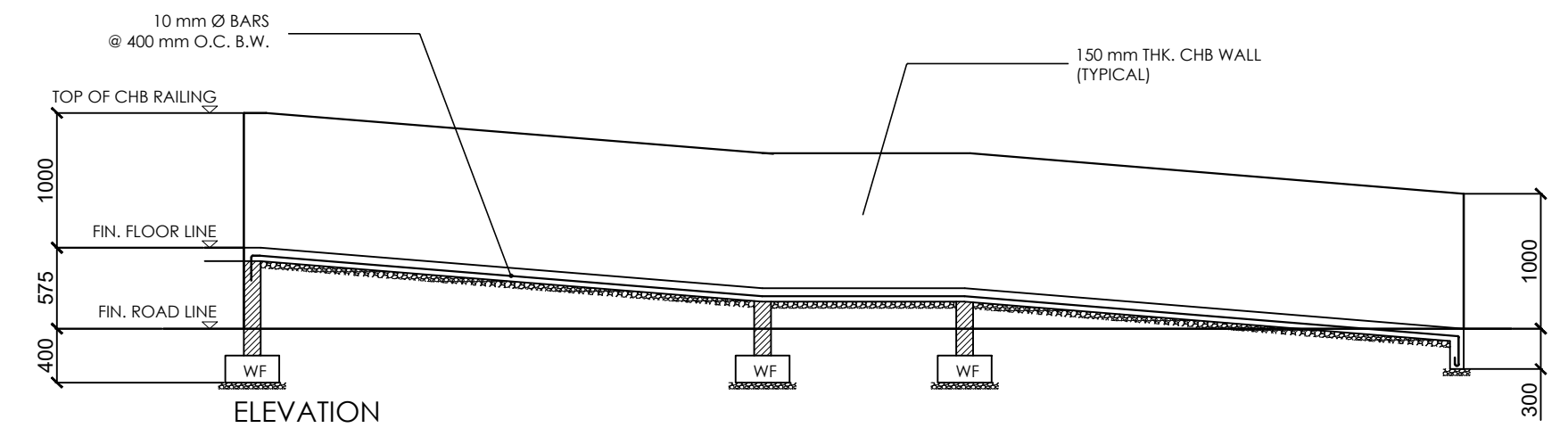
**COL. FIG. DETAIL**  
SCALE: NTS.



**DETAIL OF SLAB FOOTING (SF)**  
SCALE: 1:20

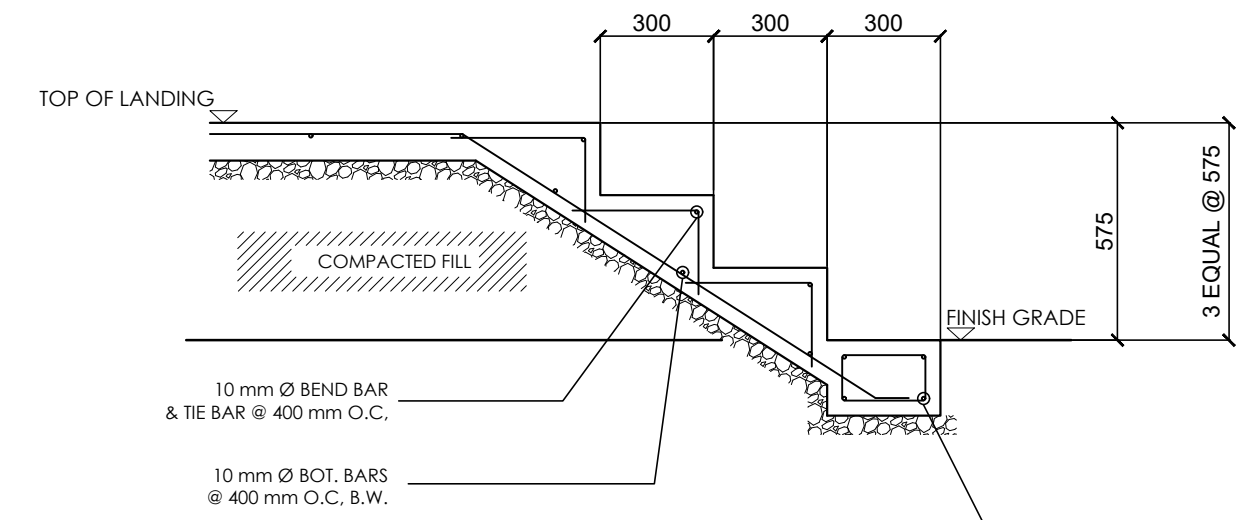


PLAN

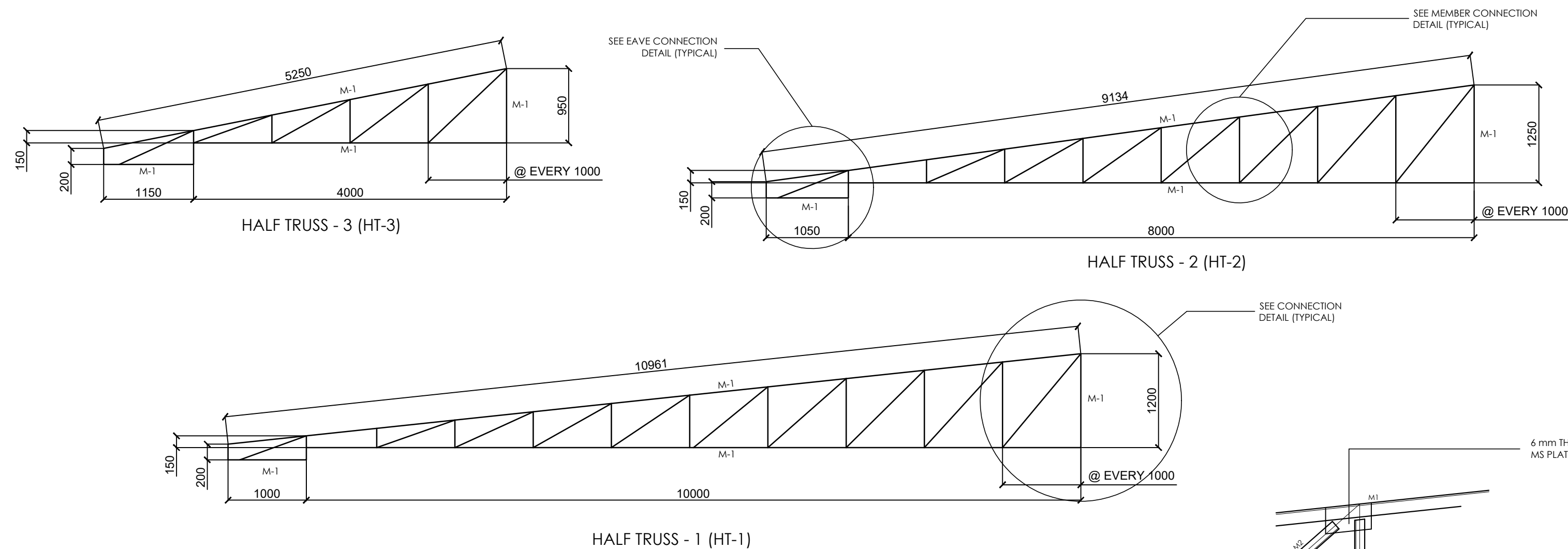


**DETAIL OF RAMPS (TYPICAL)**  
SCALE: 1:50

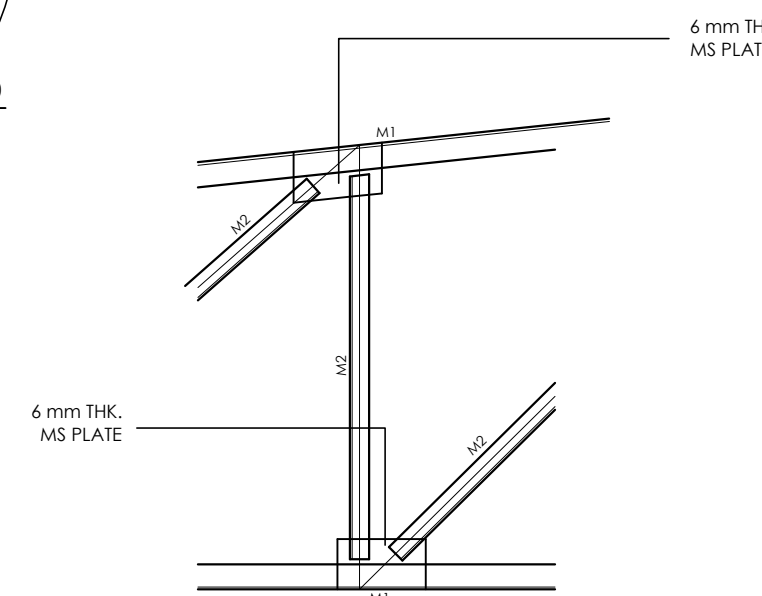
SCHEDULE OF FOOTINGS							
FOOTING MARK	DIMENSION			DEPTH	REINFORCEMENT (GR. 40)		
	X	Y	Z		BAR Ø (mm)	NUMBER ALONG x	NUMBER ALONG y
F1	1500	1500	250	1500	16	7	7
F2	1200	1200	250	1500	16	6	6
F3	1000	800	200	800	16	4	5



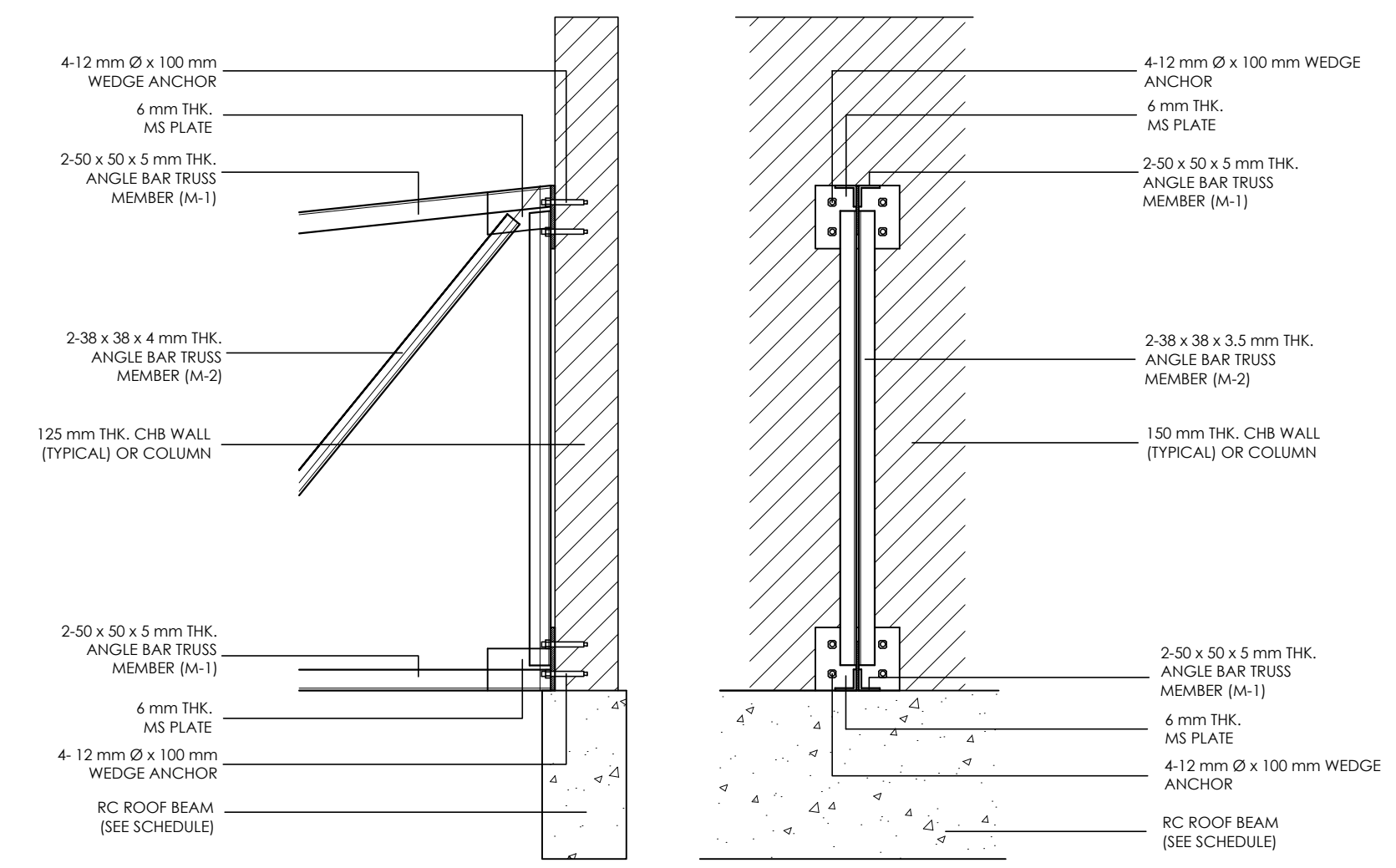
**DETAIL OF STAIRS (TYP.)**  
SCALE: 1:20



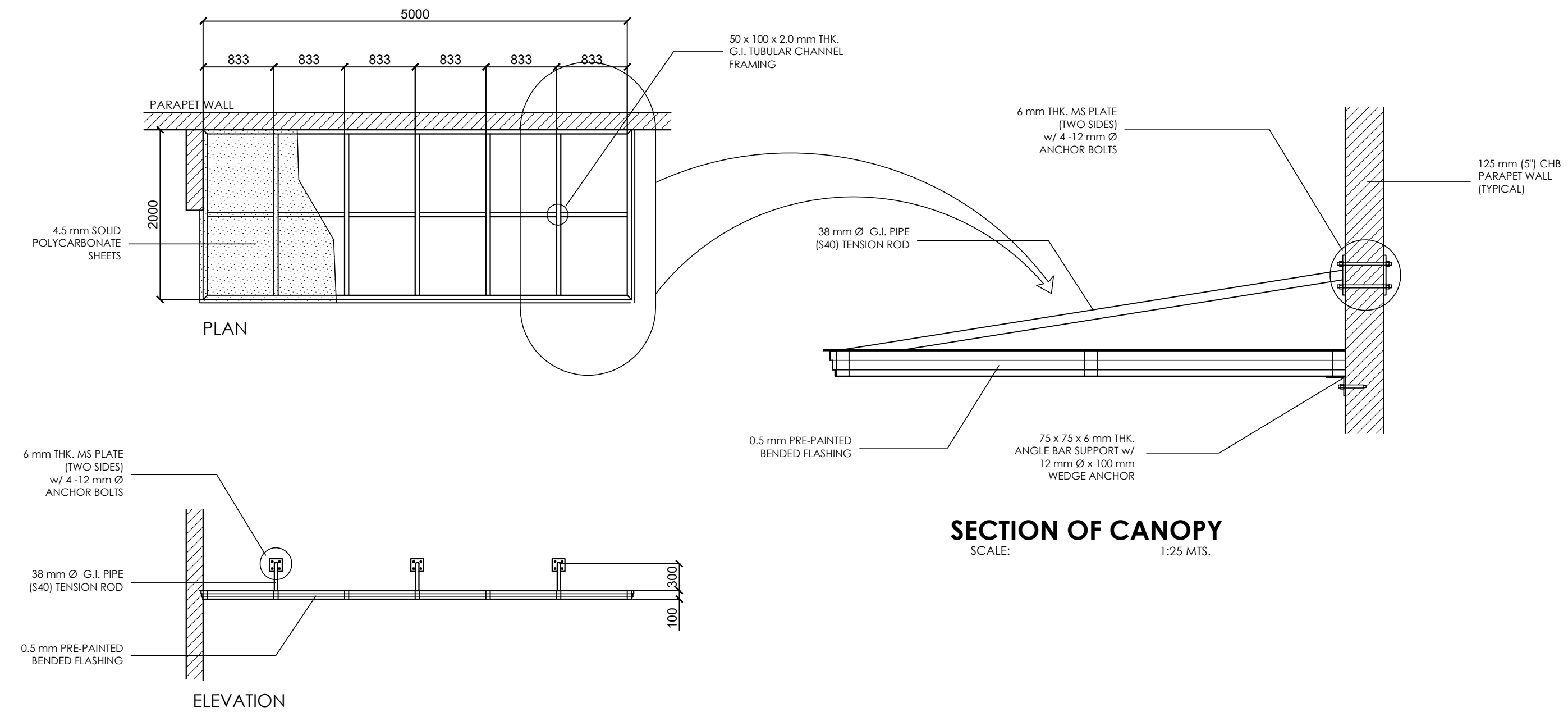
**TRUSS DIAGRAMS**  
SCALE: 1:50 MTS.



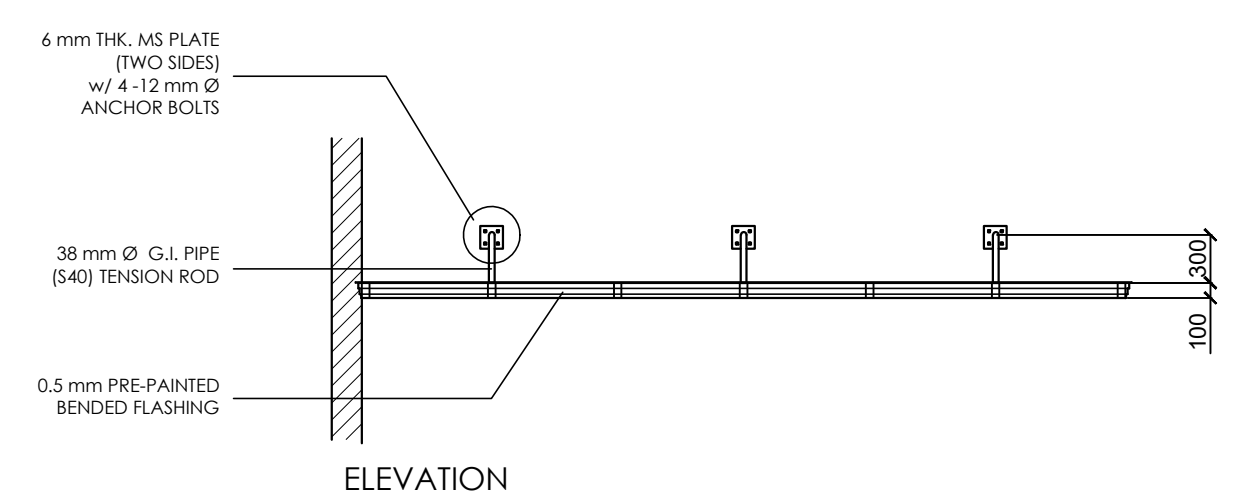
**TRUSS JOINT DETAIL (TYP.)**  
SCALE: 1:10 MTS.



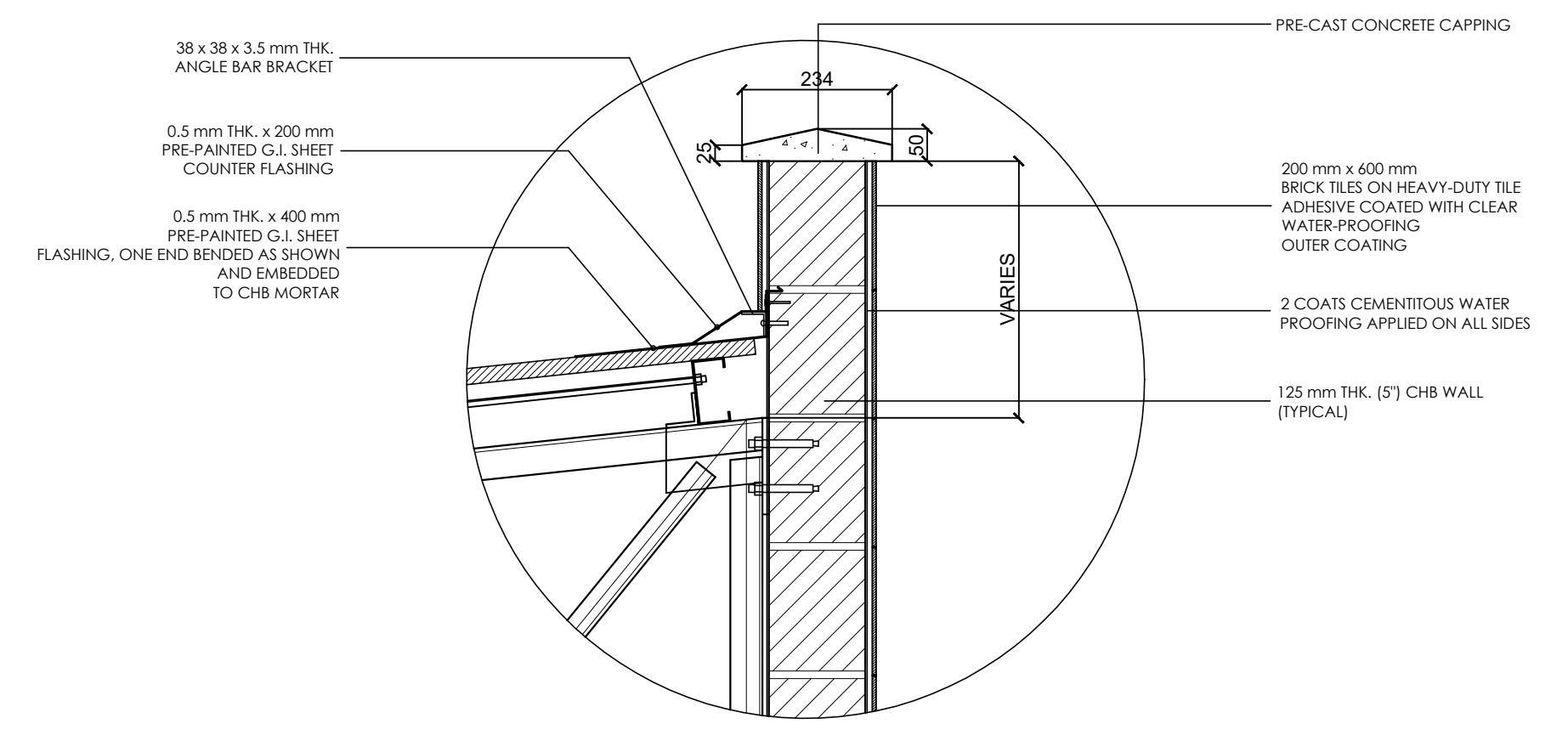
SCHEDULE OF TRUSS				
MARK	DESCRIPTION	QTY.	SIZES	REMARKS
M-1	TOP & BOTTTOM CHORD	2L	50x50 x 5 mm	FULL WELDED ON PLATE
M-2	HOR. & VERT. MEMBERS	2L	38x38 x 3.5 mm	FULL WELDED ON PLATE



**SECTION OF CANOPY**  
SCALE: 1:25 MTS.

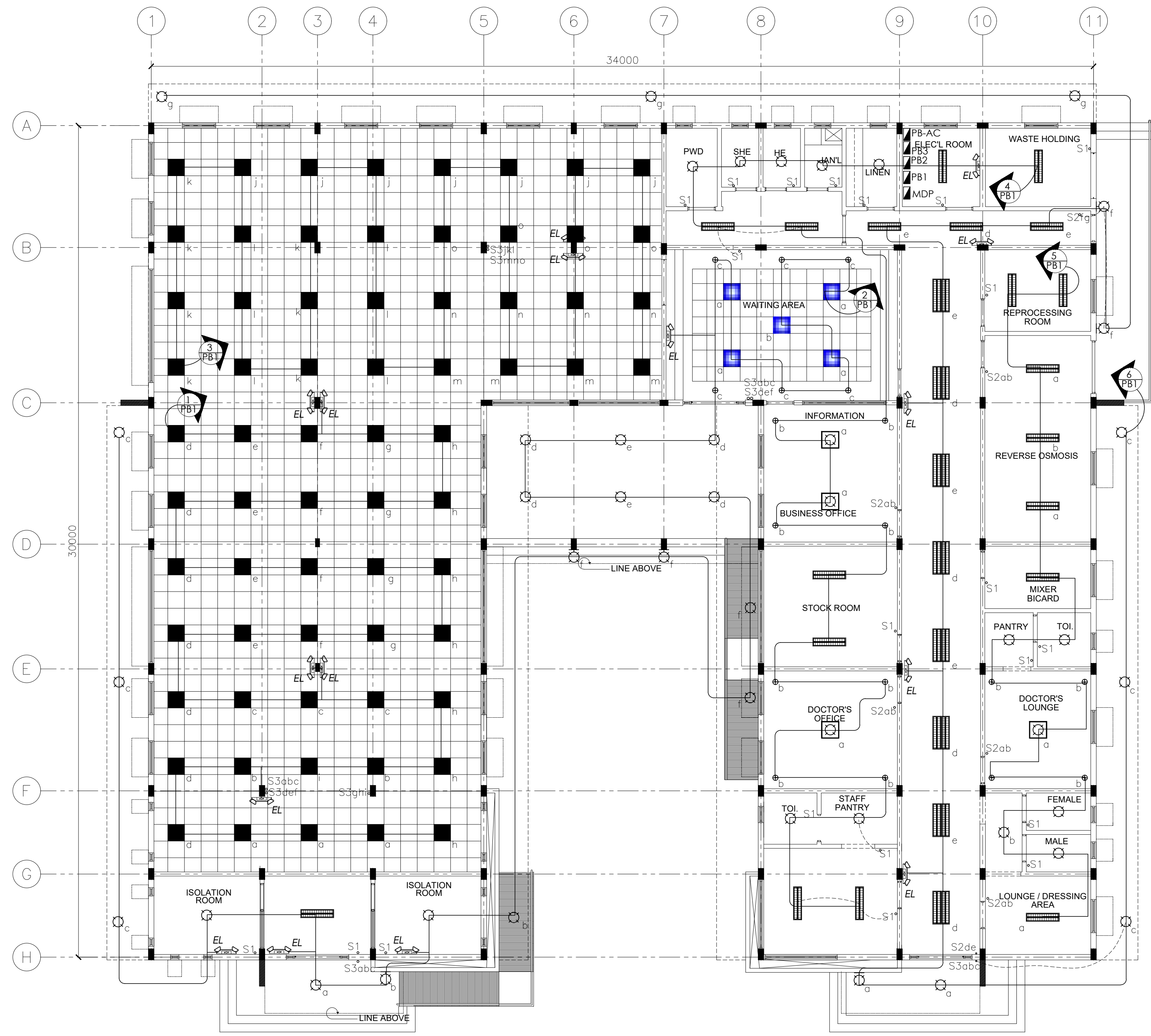


**DETAIL OF CANOPY**  
SCALE: 1:25 MTS.



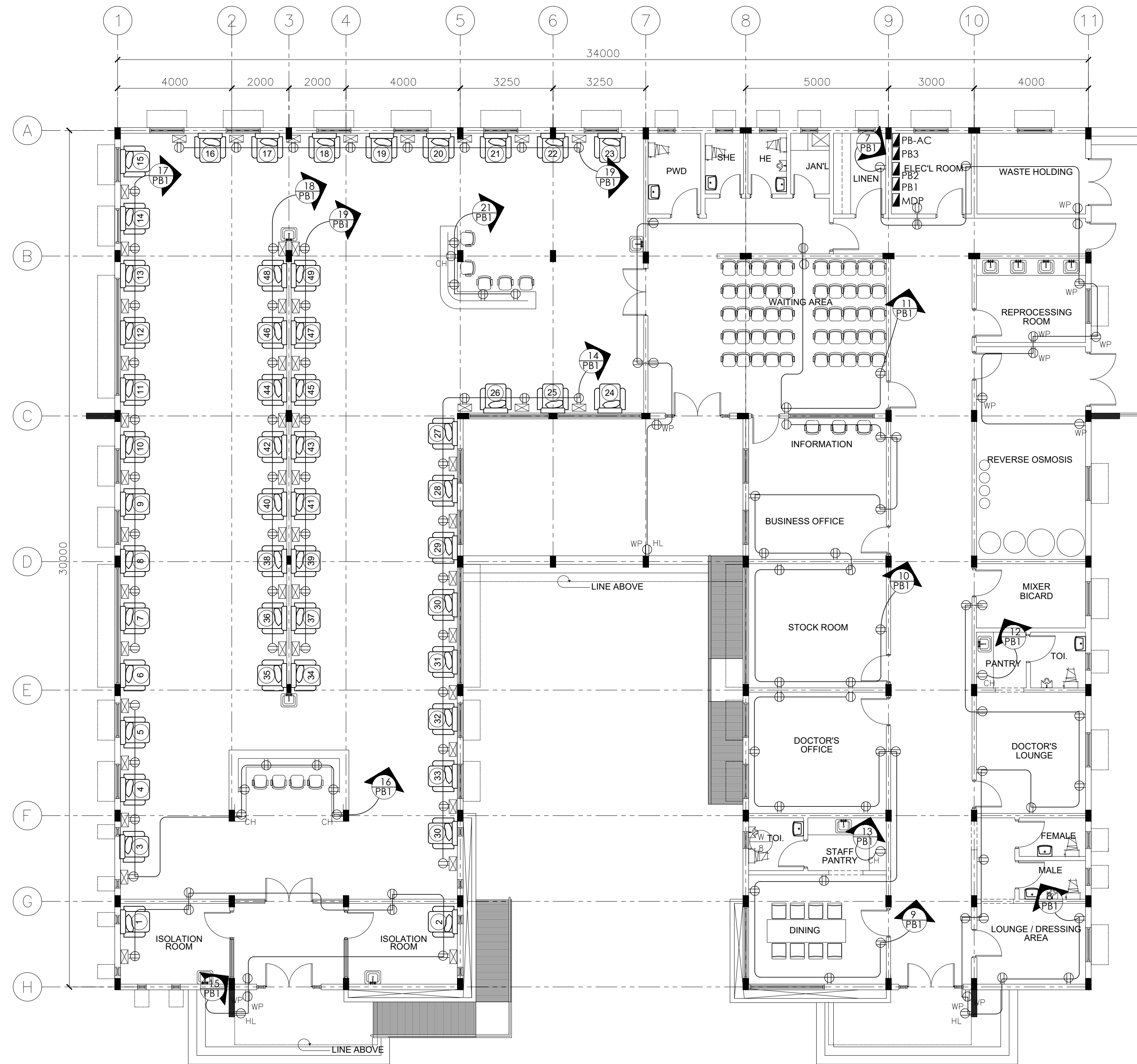
**DETAIL OF PARAPET WALL**

	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	<b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b> LOCATION:PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	<b>BRYAN Q. ALVARADO</b> ENGINEER III	<b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	<b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	<b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor:  <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	AS SHOWN STRUCTURAL	<b>S-6</b> 20 of 31

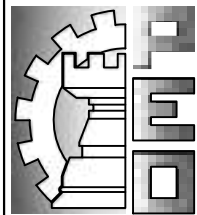


**E LIGHTING LAYOUT PLAN**  
 SCALE: 1:100 METERS

<p>FROM THE OFFICE OF:</p> <p>REPUBLIC OF THE PHILIPPINES          PROVINCE OF PAMPANGA</p> <p><b>PROVINCIAL ENGINEER'S OFFICE</b></p> <p>CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>PROJECT TITLE:</p> <p><b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b></p> <p>LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)</p>	<p>PREPARED BY:</p> <p>ENGR. MICHAEL T. MONTEMAYOR</p> <p>ENGINEER II</p> <p>CAD BY: RALPH PASCUAL</p>	<p>CHECKED &amp; SUBMITTED BY:</p> <p>WILFREDO A. MANALILI</p> <p>ASSIST. PROVINCIAL ENGINEER</p>	<p>RECOMMENDING APPROVAL:</p> <p>OLIMPIO M. PANGAN</p> <p>PROVINCIAL ENGINEER</p>	<p>APPROVED BY:</p> <p>HON. DENNIS G. PINEDA  <small>Governor          By the Authority of the Governor:</small></p> <p>ATTY. CHARLIE G. CHUA  <small>PROVINCIAL ADMINISTRATOR</small></p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p> <p>ELECTRICAL</p>	<p>SHEET NO.:</p> <p>E-1</p> <p>21 of 31</p>
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**E**  
11  
**POWER LAYOUT PLAN**  
SCALE: 1:100 METERS

 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>ENGR. MICHAEL T. MONTEMAYOR</b> ENGINEER II	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> ELECTRICAL	SHEET NO.: <b>E-2</b> 22 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P) CAD BY: RALPH PASCUAL						

TRANSFORMER, 3-100KVA,  
POLE MOUNTED TYPE,  
120/240 SECONDARY,  
7620/13200 PRIMARY,  
BANK TO 3Ø, 230V, 60HZ

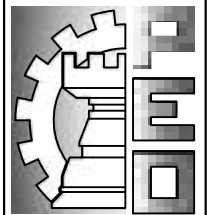
SERVICE ENTRANCE  
PEDESTAL  
WITH PULL BOX  
1200x1200x1000mm

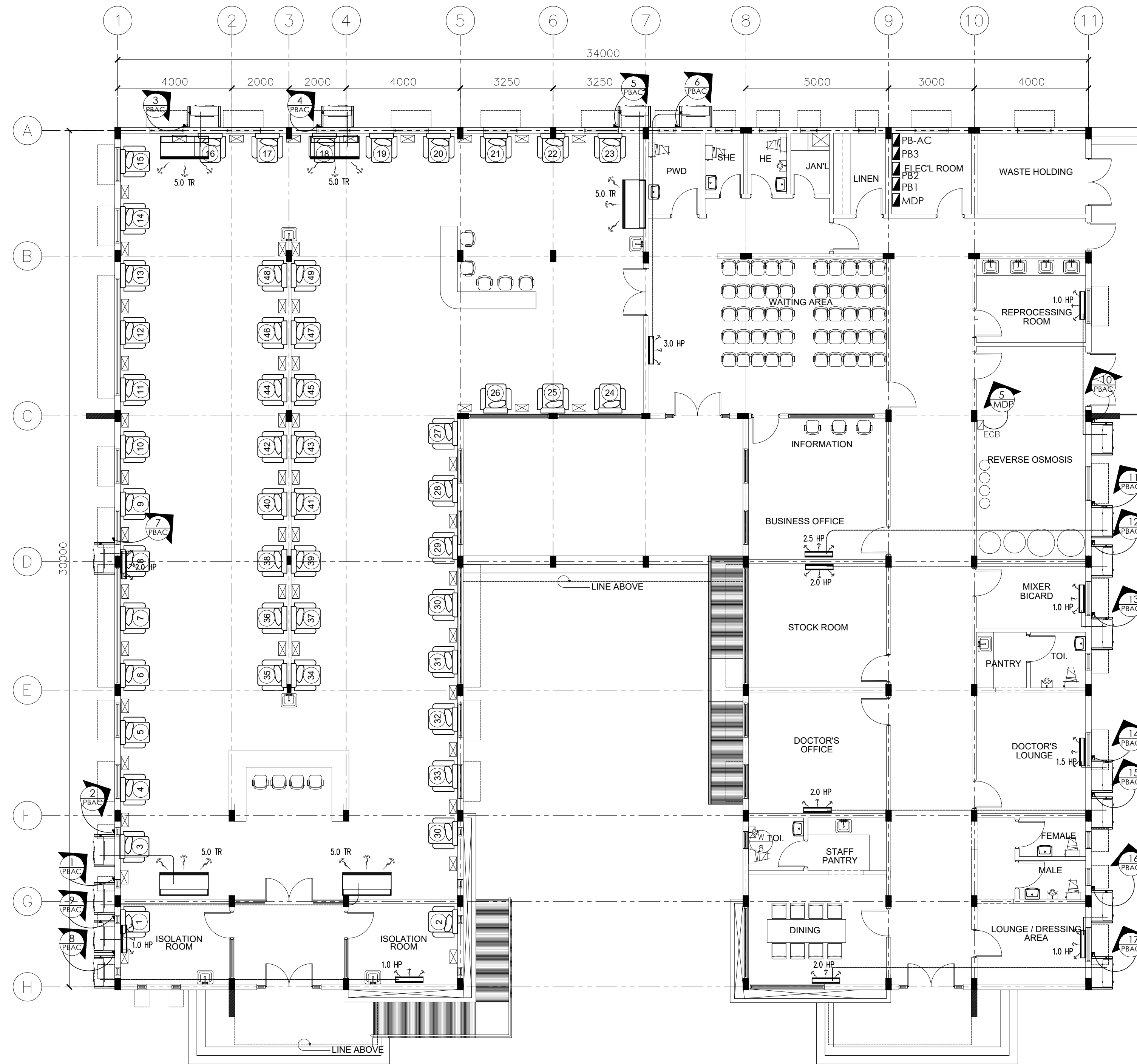
630AT, 3P,  
ECB MAIN,  
NEMA 3R  
WITH  
SURGE  
PROTECTION

3SETS OF 3-100mm<sup>2</sup> THIN/TWIN-2 LINE  
+50mm<sup>2</sup> THIN/TWIN-2 GROUND  
IN 75mmØ PVC PIPE UNDERGROUND

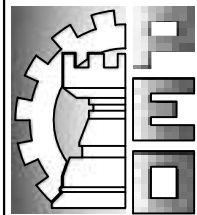


**E**  
**1 1** SPECIAL PURPOSE OUTLET PLAN  
SCALE: 1:100 METERS

	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	<b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>  LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	ENGR. MICHAEL T. MONTEMAYOR ENGINEER II	WILFREDO A. MANALILI ASSIST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA Governor By the Authority of the Governor: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ELECTRICAL	E-3 23 of 31



**E**  
1 | 1  
**ACU LAYOUT PLAN**  
SCALE: 1:100 METERS

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>ENGR. MICHAEL T. MONTEMAYOR</b> ENGINEER II	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> ELECTRICAL	SHEET NO.: <b>E-4</b> 24 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: RALPH PASCUAL					



**GENERAL ELECTRICAL NOTES:**

ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

SERVICE FROM THE ELECTRIC POWER COMPANY SHALL BE 230V, 3PHASE, 60HZ  
 ALL INSTALLATIONS SHALL BE CONCEALED FROM VIEW BY INSTALLING CONDUCTORS IN PVC CONDUIT. POWER AND LIGHTING DISTRIBUTION EMBEDDED IN CONCRETE SHALL BE IN PVC CONDUITS. EXPOSED POWER AND LIGHTING DISTRIBUTION SHALL BE IN RSC CONDUITS, BY MEANS OF HANGERS

ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE 3.5 sqmm WIRE AS MANUFACTURED BY PHELPS DODGE SHALL BE USED.  
 THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.

ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE.

ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.

ALL PANELBOARDS SHALL BE PROVIDED WITH GROUNDING BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND OF THE THERMAL-MAGNETIC TYPE, COMMON TRIP WITH THE RATINGS AND NUMBER OF POLES AS INDICATED IN THE DRAWINGS.

THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:

- A) LIGHT SWITCHES . . . . . 1.35M ABOVE FLOOR FINISH TO CENTER SWITCH.
- B) CONVENIENCE OUTLETS . . . . . 0.35M ABOVE FLOOR FINISH TO BOTTOM C.O.
- C) TELEPHONE OUTLETS . . . . . 0.35M ABOVE FLOOR FINISH TO BOTTOM T.O..
- D) PANELBOARDS & CABINETS . . . . . 1.8M ABOVE FLOOR FINISH AT TOP OF PANEL

ALL LIGHTINGS & DEVICES SHALL SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION.  
 WHENEVER NECESSARY PULL BOXES SHALL BE PROVIDED EVEN IF NOT INDICATED IN THE DRAWING

ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY QUALIFIED LICENSED ELECTRICAL ENGINEER.  
 PROVIDE LIGHTNING ELECTRODE AND ARRESTER TO GROUND.

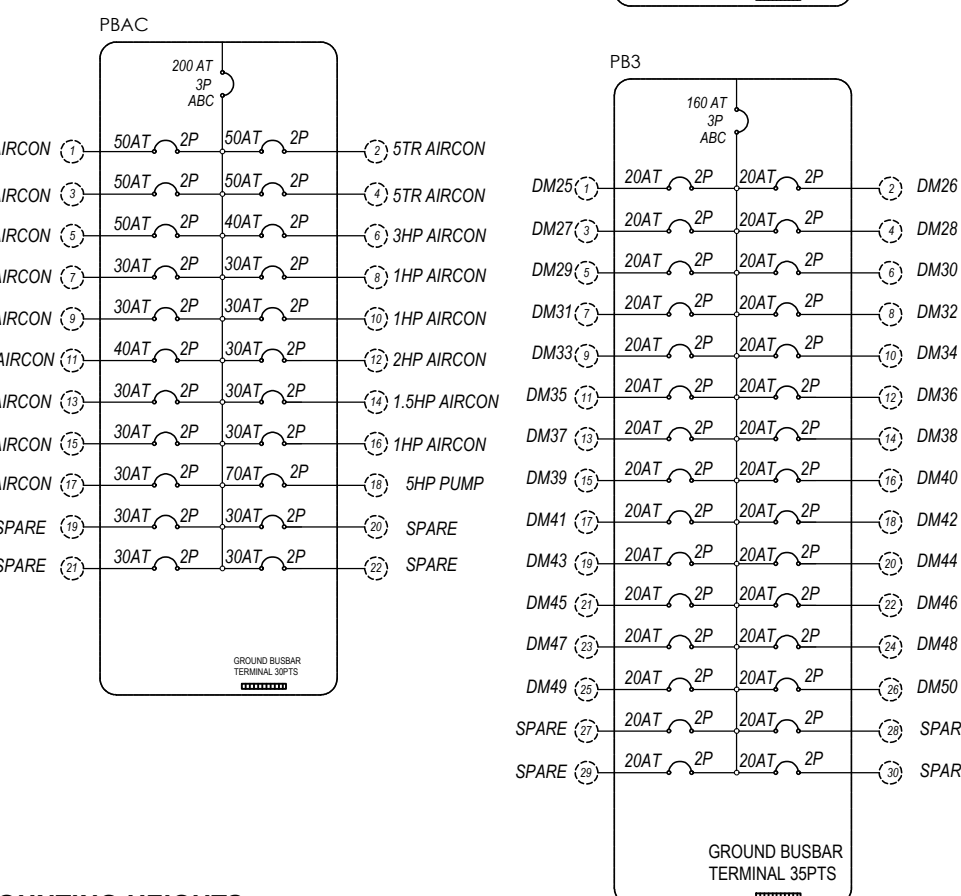
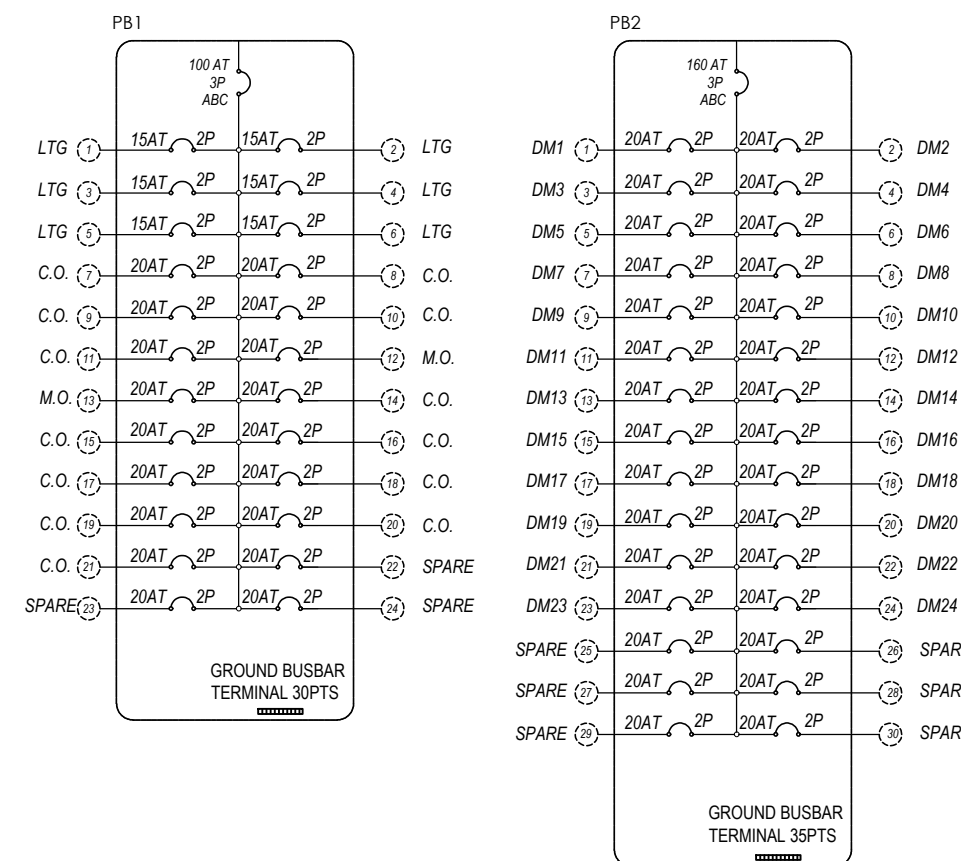
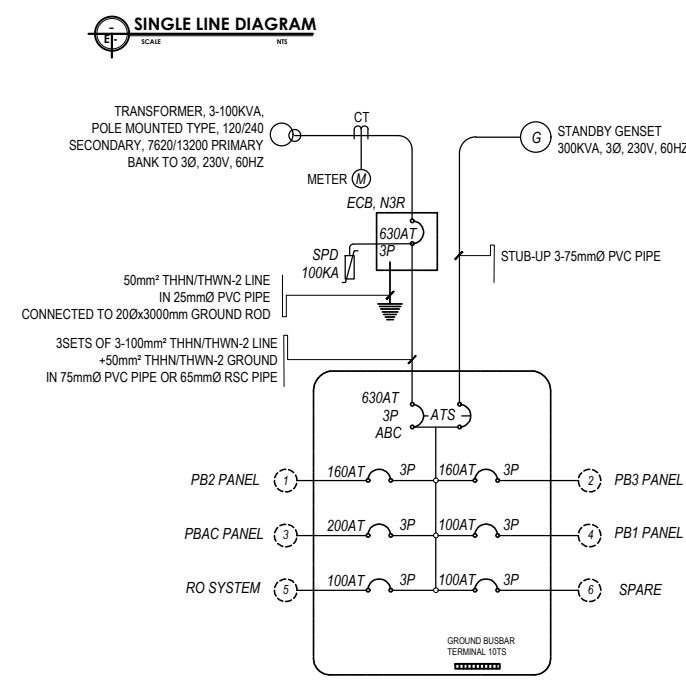
NO ELECTRICAL PIPES CROSSING ALONG COMFORT ROOM SLAB

THE 3 PHASE WIRE COLOR CODING SHALL BE AS FOLLOW:

- A) LINE 1 - RED
- B) LINE 2 - YELLOW
- C) LINE 3 - BLUE
- D) GROUND - GREEN

THE FOLLOWING TEST SHALL BE DONE BEFORE ENERGIIZATION THE ELECTRICAL SYSTEM

- A) CONTINUITY TEST
- B) INSULATION RESISTANCE TEST
- C) FUNCTIONALITY TEST
- D) EARTH RESISTANCE TESTING



**LOAD CALCULATION**

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

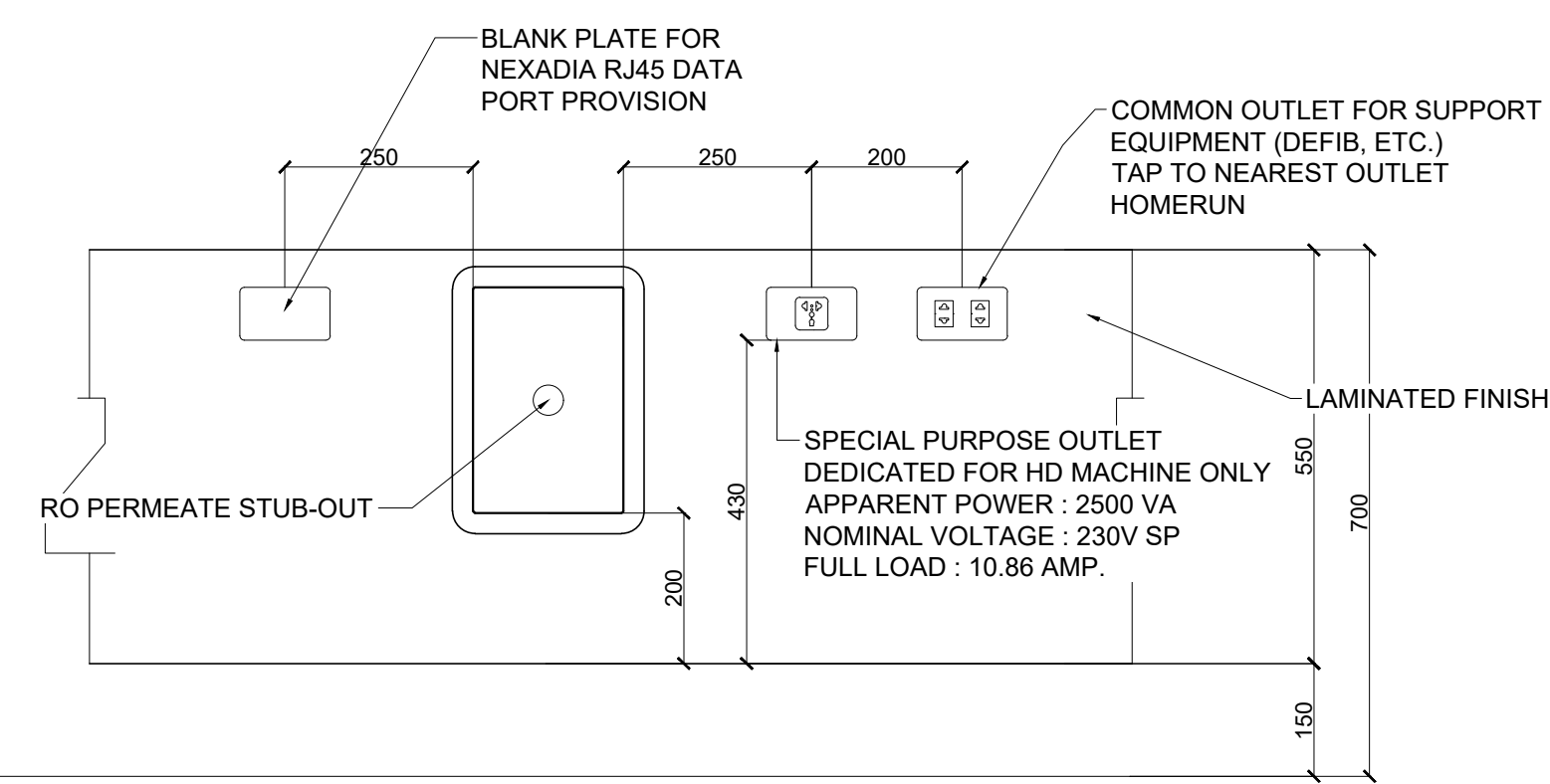
NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

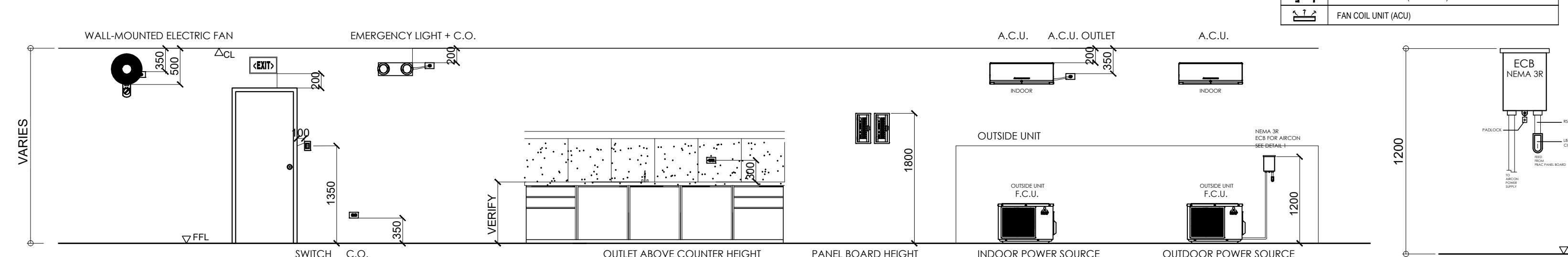
NO.	DESCRIPTION	UNIT	AMOUNT	LOAD (VA)	LOAD (KW)	LOAD (KVA)
1	General Lighting	sqm	1000	100000	100	100
2	Receptacles	sqm	1000	100000	100	100
3	Power Distribution	sqm	1000	100000	100	100
4	Lighting Fixtures	sqm	1000	100000	100	100
5	Other Loads	sqm	1000	100000	100	100
TOTAL				500000	500	500

**LEGEND:**

	36W T8 LED FLUORESCENT LAMP
	24W DECORATIVE CEILING LAMP
	15W LED DOWNLIGHT
	15W LED WALL LAMP
	9W LED DOWNLIGHT
	CIRCUIT HOMERUN
	1 GANG, 2 GANG & 3 GANG SWITCH
	2-3.5W LED EMERGENCY LIGHT
	DUPLEX CONVENIENCE OUTLET
	COUNTER HEIGHTS CONVENIENCE OUTLET
	WEATHERPROOF CONVENIENCE OUTLET
	SPECIAL PURPOSE OUTLET
	PANELBOARD
	CONDENSING UNIT (OUTDOOR)
	FAN COIL UNIT (ACU)

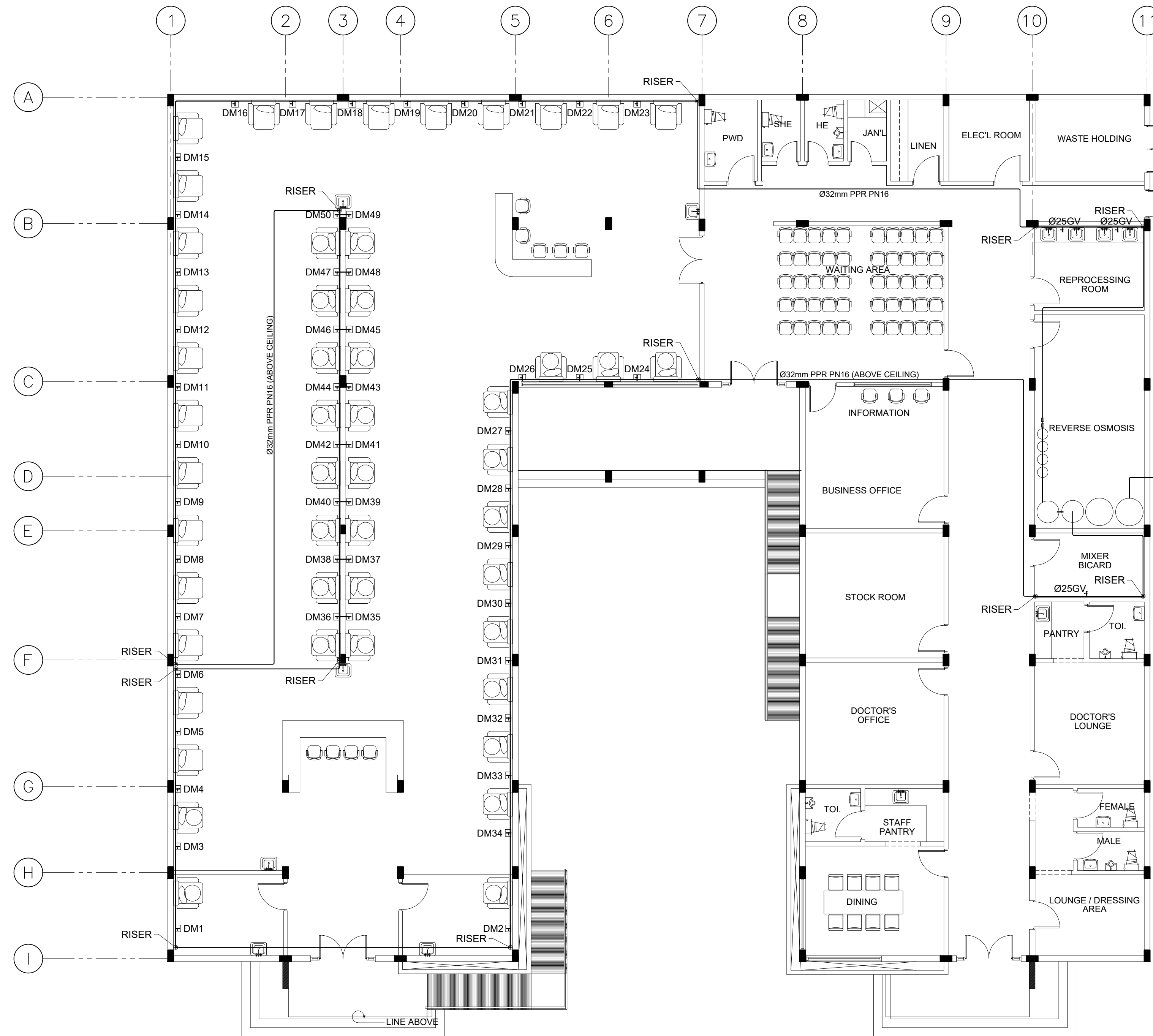


**TYPICAL MOUNTING HEIGHTS**




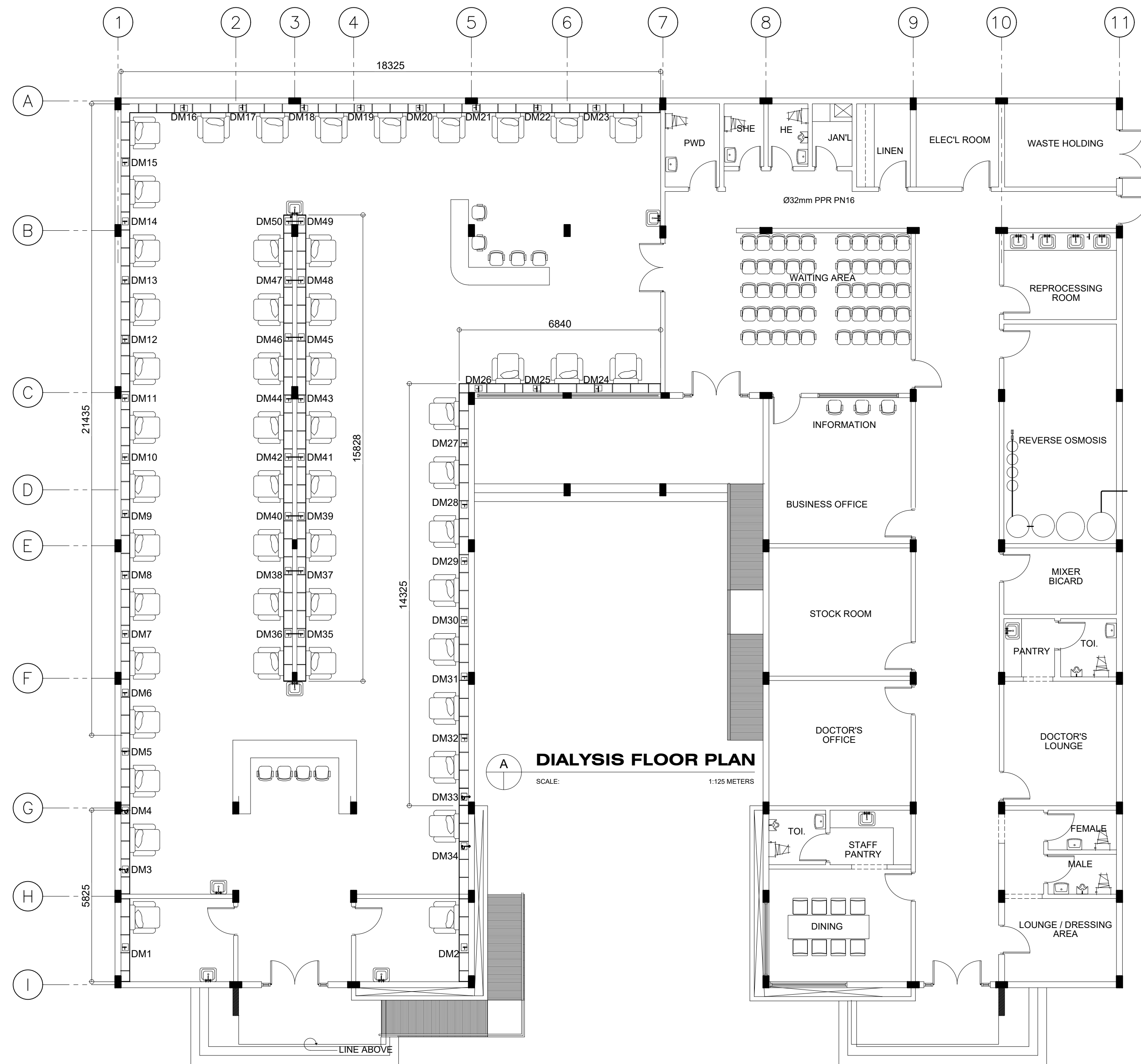
**ENHANCEMENT BOX ELEVATION**  
 SCALE 1 : 10 MTS.

FROM THE OFFICE OF:  REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b> LOCATION:PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	PREPARED BY: <b>ENGR. MICHAEL T. MONTEMAYOR</b> ENGINEER II CAD BY: IRVIN JOSEF D. CRUZ	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> ELECTRICAL	SHEET NO.: <b>E-5</b> 25 of 31
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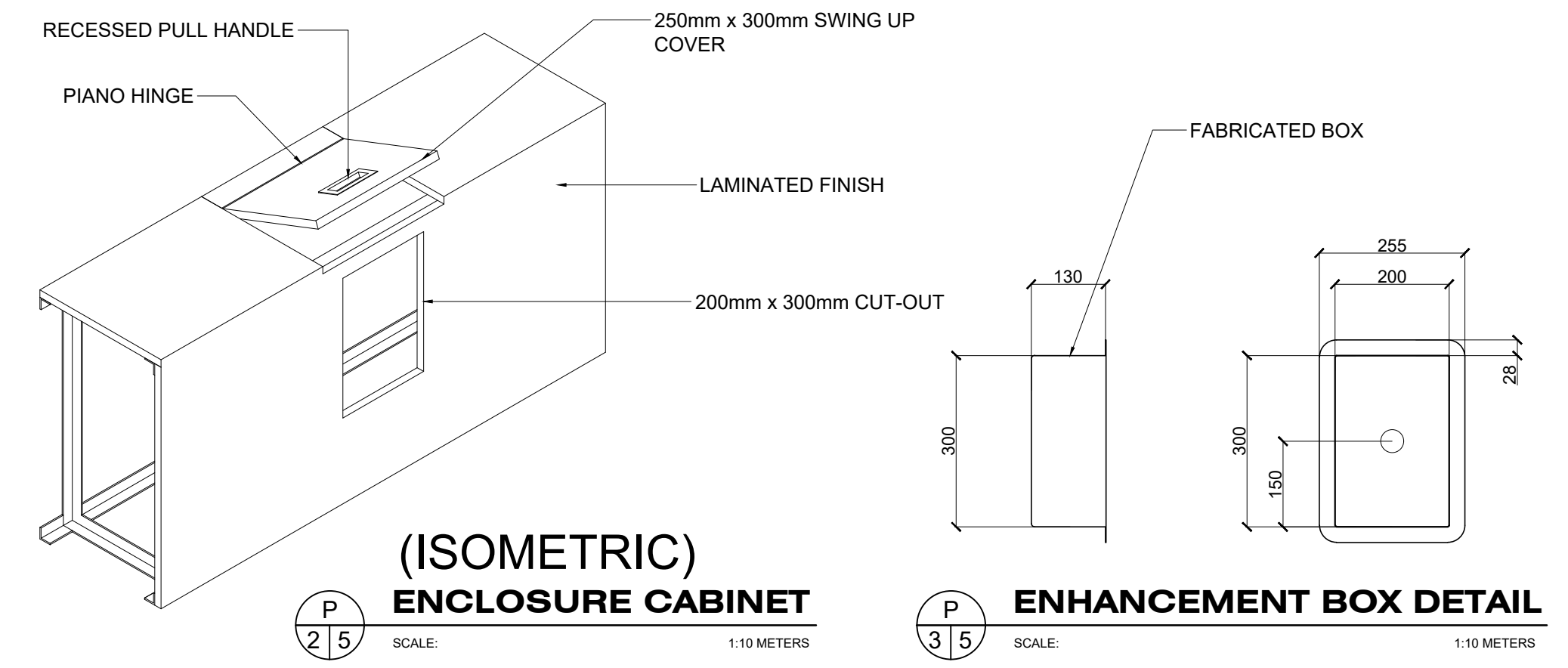
**P**  
11  
**WATER LOOP LINE LAYOUT**  
SCALE: 1:100 METERS

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN PLUMBING	SHEET NO.: P-1 26 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: KENWAY D. TAYAG					



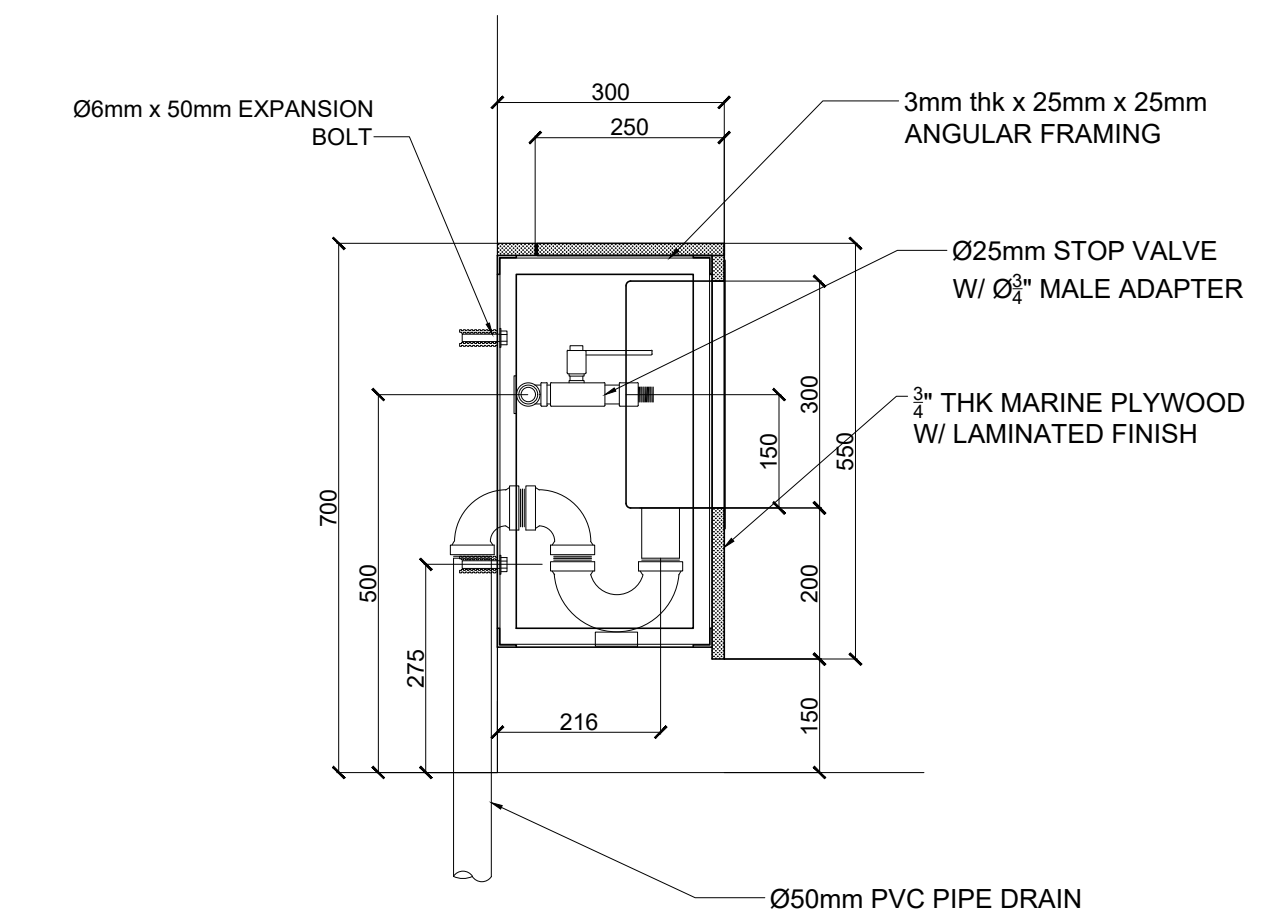
**DIALYSIS FLOOR PLAN**  
SCALE: 1:125 METERS

**ENHANCEMENT BOX LAYOUT**  
SCALE: 1:100 METERS

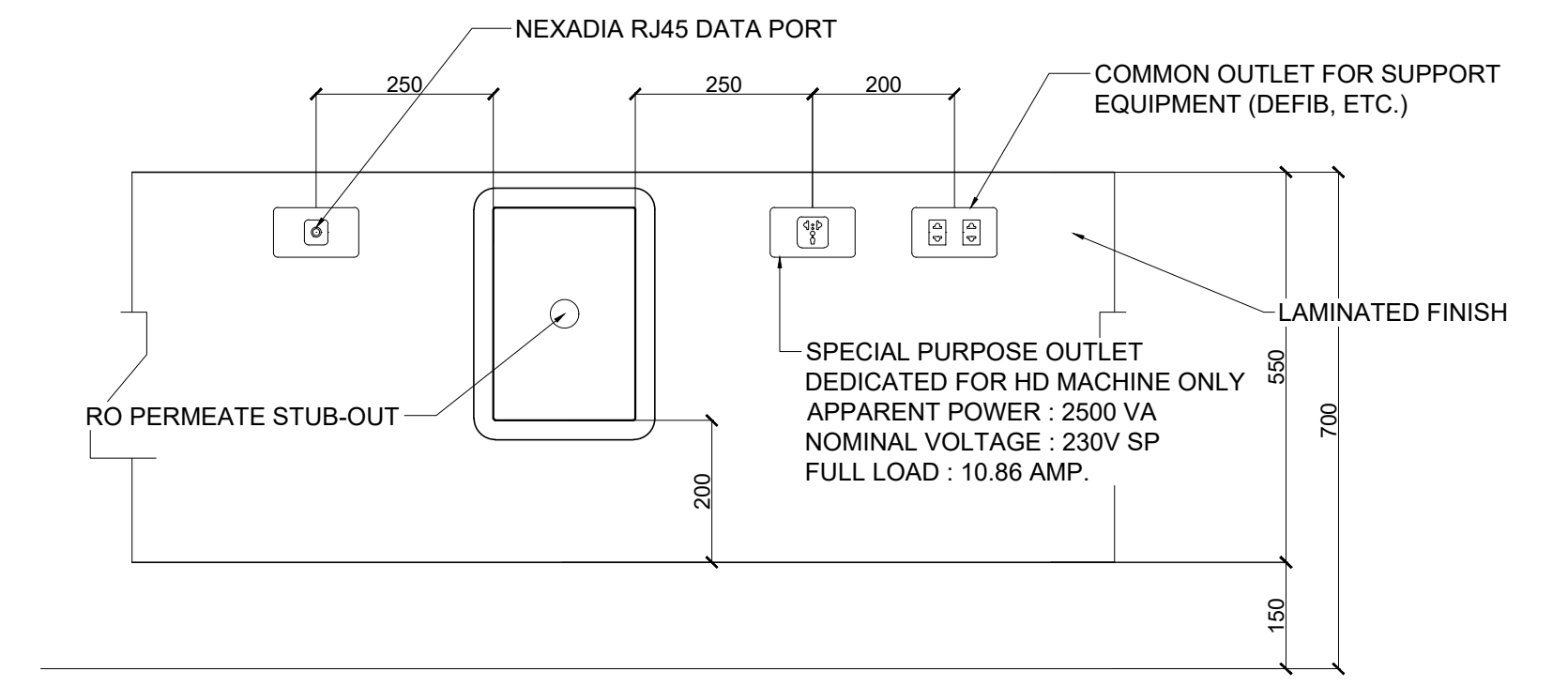


**(ISOMETRIC) ENCLOSURE CABINET**  
SCALE: 1:10 METERS

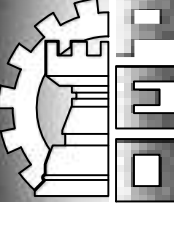
**ENHANCEMENT BOX DETAIL**  
SCALE: 1:10 METERS

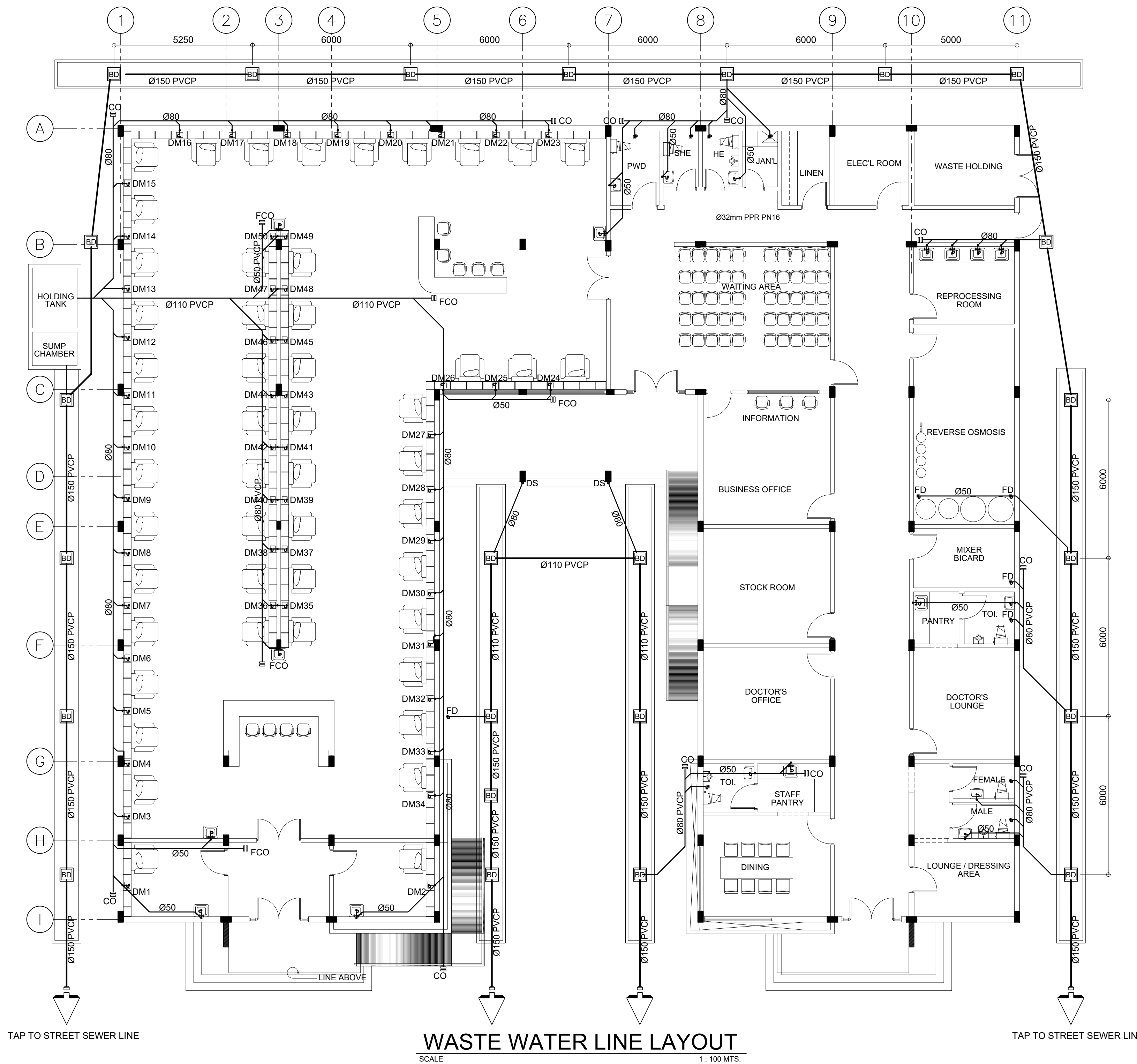


**(SECTION) ENCLOSURE CABINET**  
SCALE: 1:10 METERS

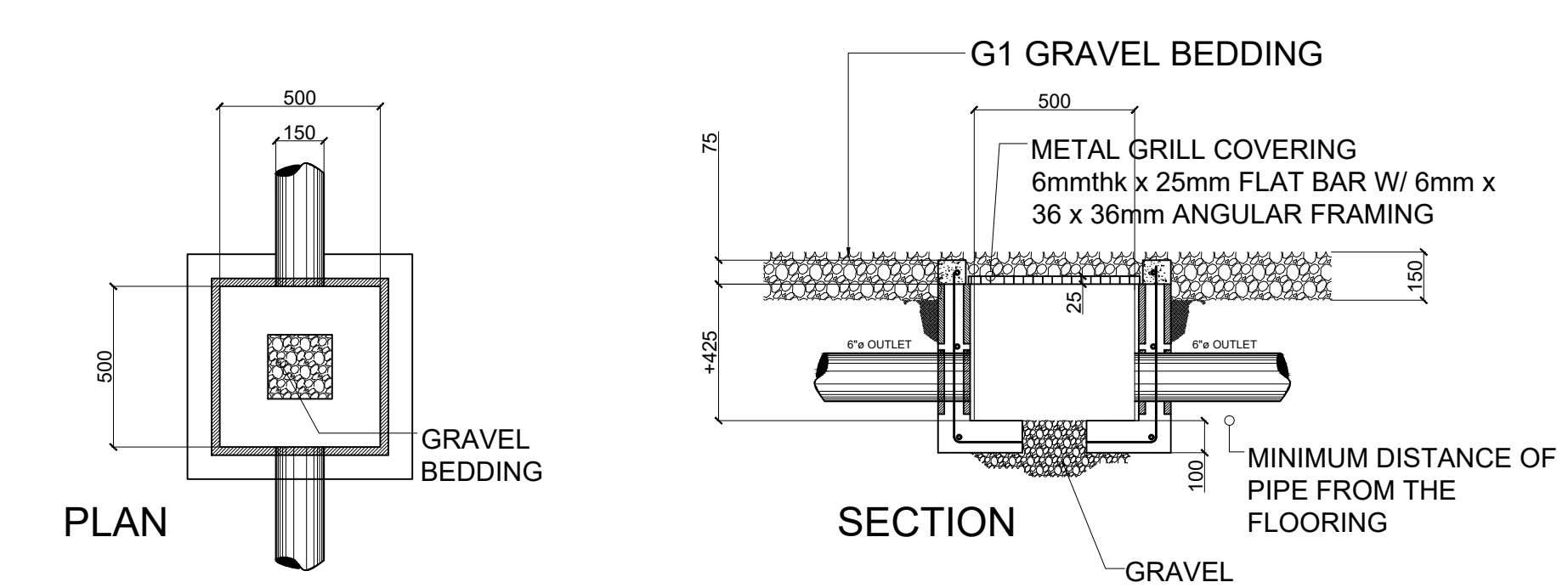
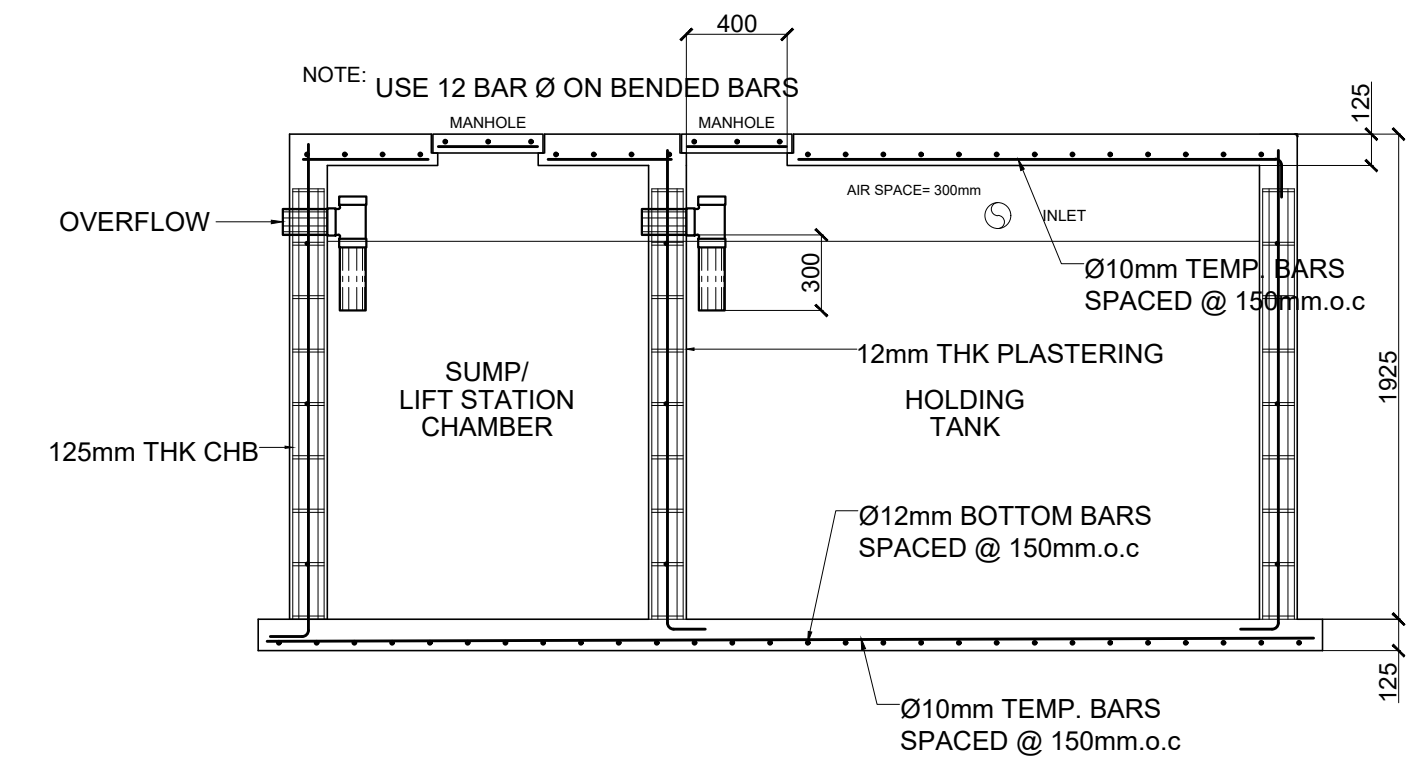
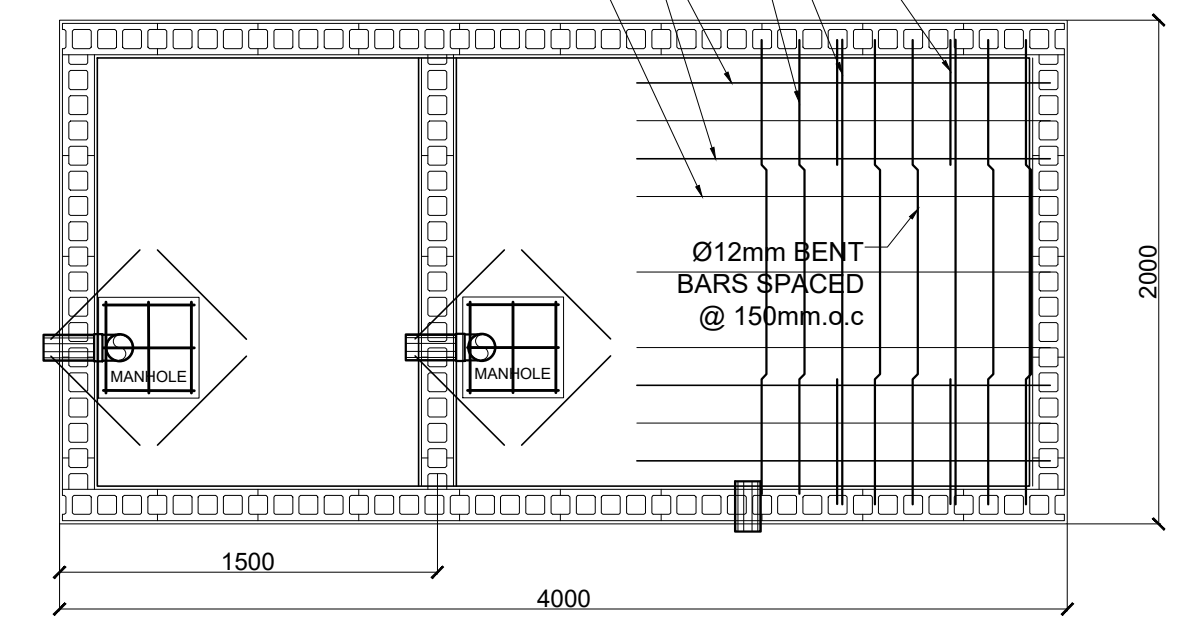


**ENCLOSURE CABINET ELEVATION**  
SCALE: 1:10 METERS

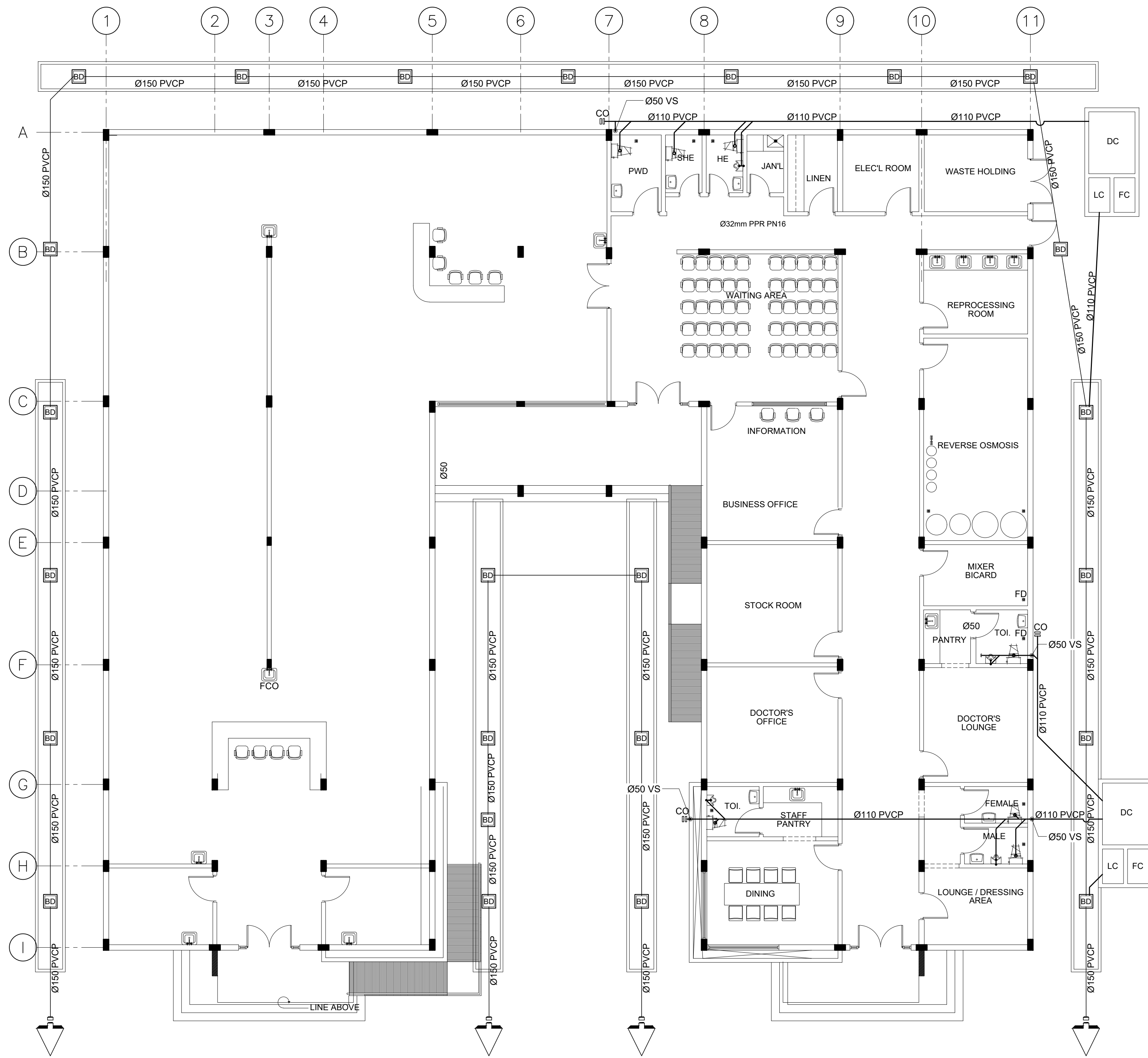
 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> PLUMBING	SHEET NO.: <b>P-2</b> 27 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	CAD BY: KENWAY D. TAYAG	ASSIST. PROVINCIAL ENGINEER	PROVINCIAL ENGINEER	PROVINCIAL ADMINISTRATOR	PLUMBING	27 of 31



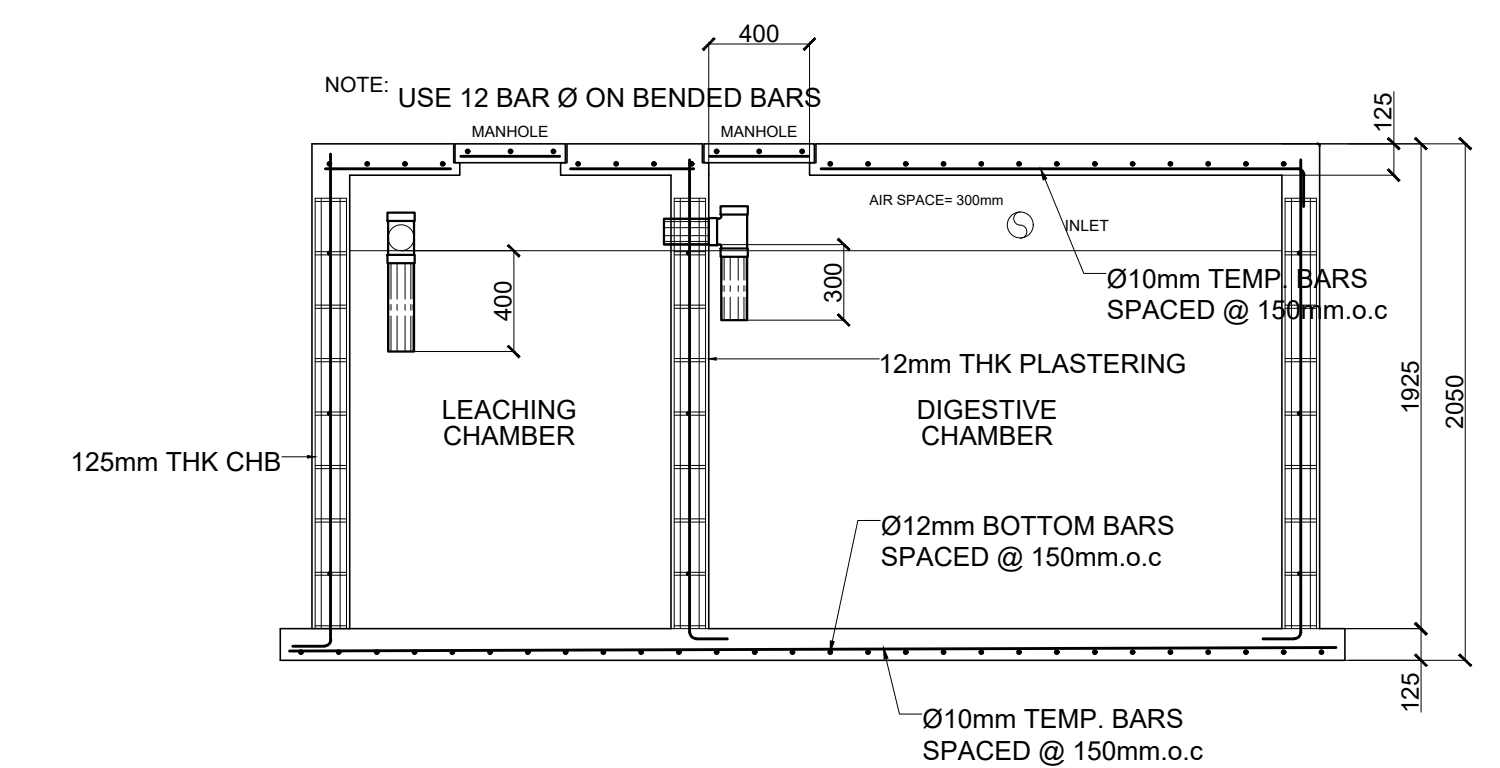
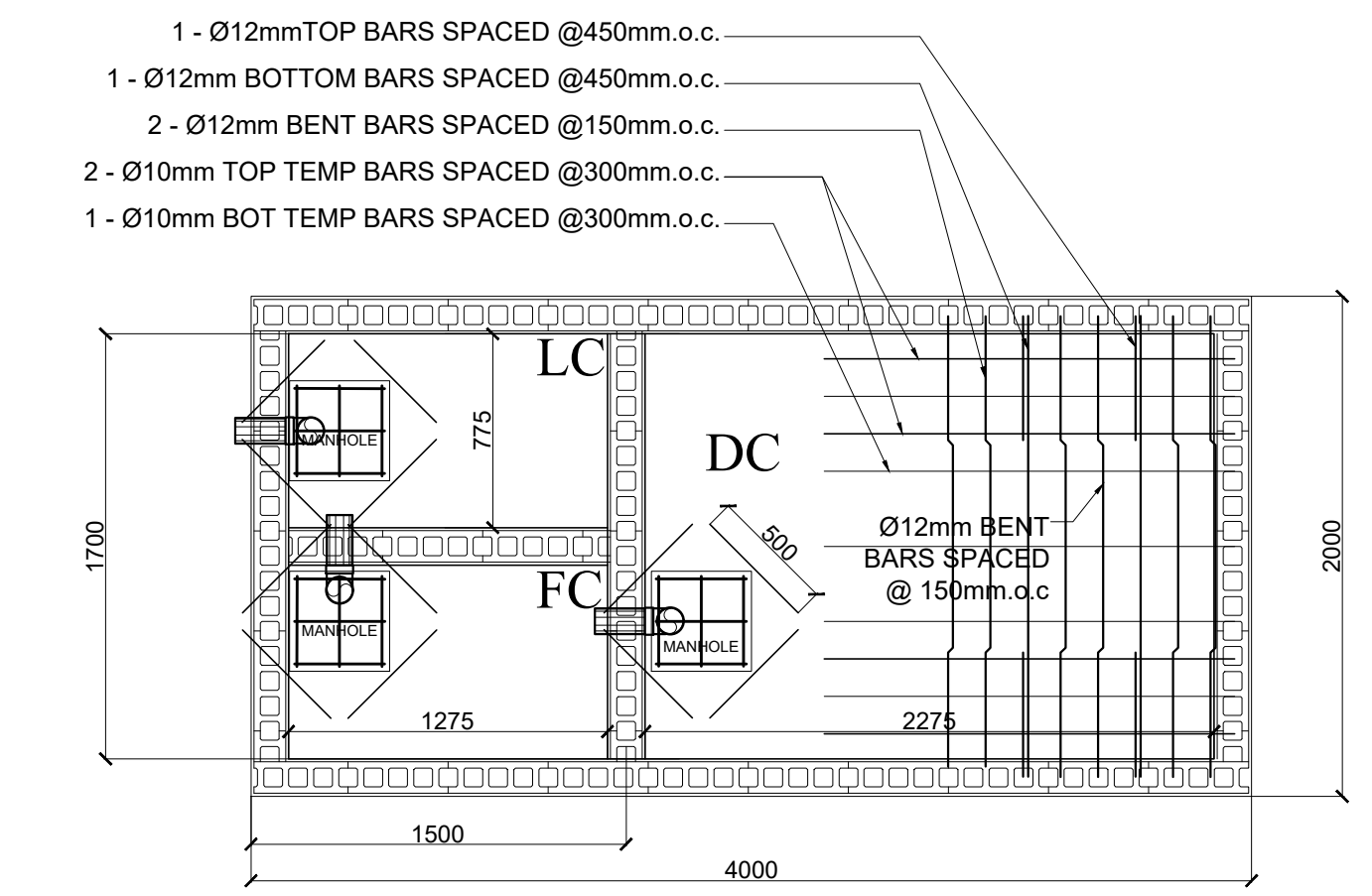
- 1 - Ø12mm TOP BARS SPACED @450mm.o.c.
- 1 - Ø12mm BOTTOM BARS SPACED @450mm.o.c.
- 2 - Ø12mm BENT BARS SPACED @150mm.o.c.
- 2 - Ø10mm TOP TEMP BARS SPACED @300mm.o.c.
- 1 - Ø10mm BOT TEMP BARS SPACED @300mm.o.c.



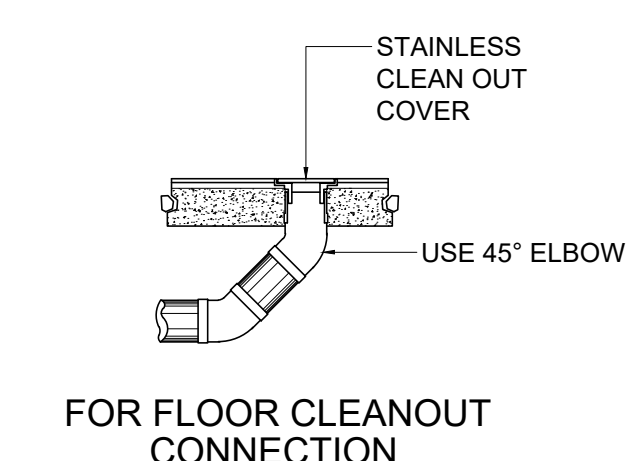
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	<b>CONSTRUCTION OF MULTI-PURPOSE BUILDING (DIALYSIS CENTER)</b>  LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	<b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY: KENWAY D. TAYAG	<b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	<b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	<b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor:  <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	AS SHOWN PLUMBING	<b>P-3</b> 28 of 31



**WASTE WATER LINE LAYOUT**  
SCALE 1: 100 MTS.

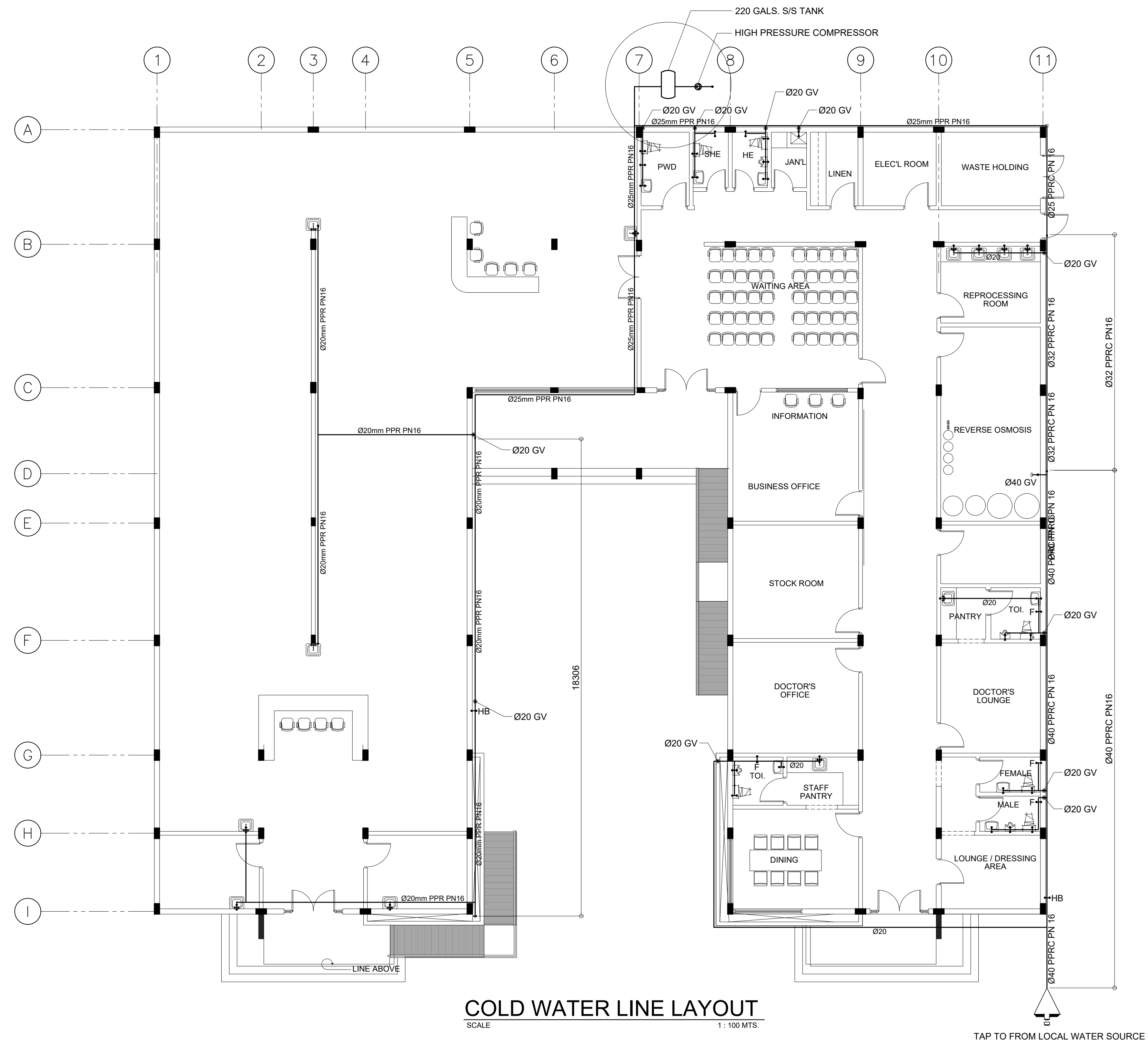


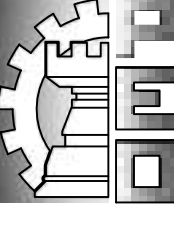
**SEPTIC VAULT DETAIL (2 SETS)**  
SCALE 1: 30 MTS.

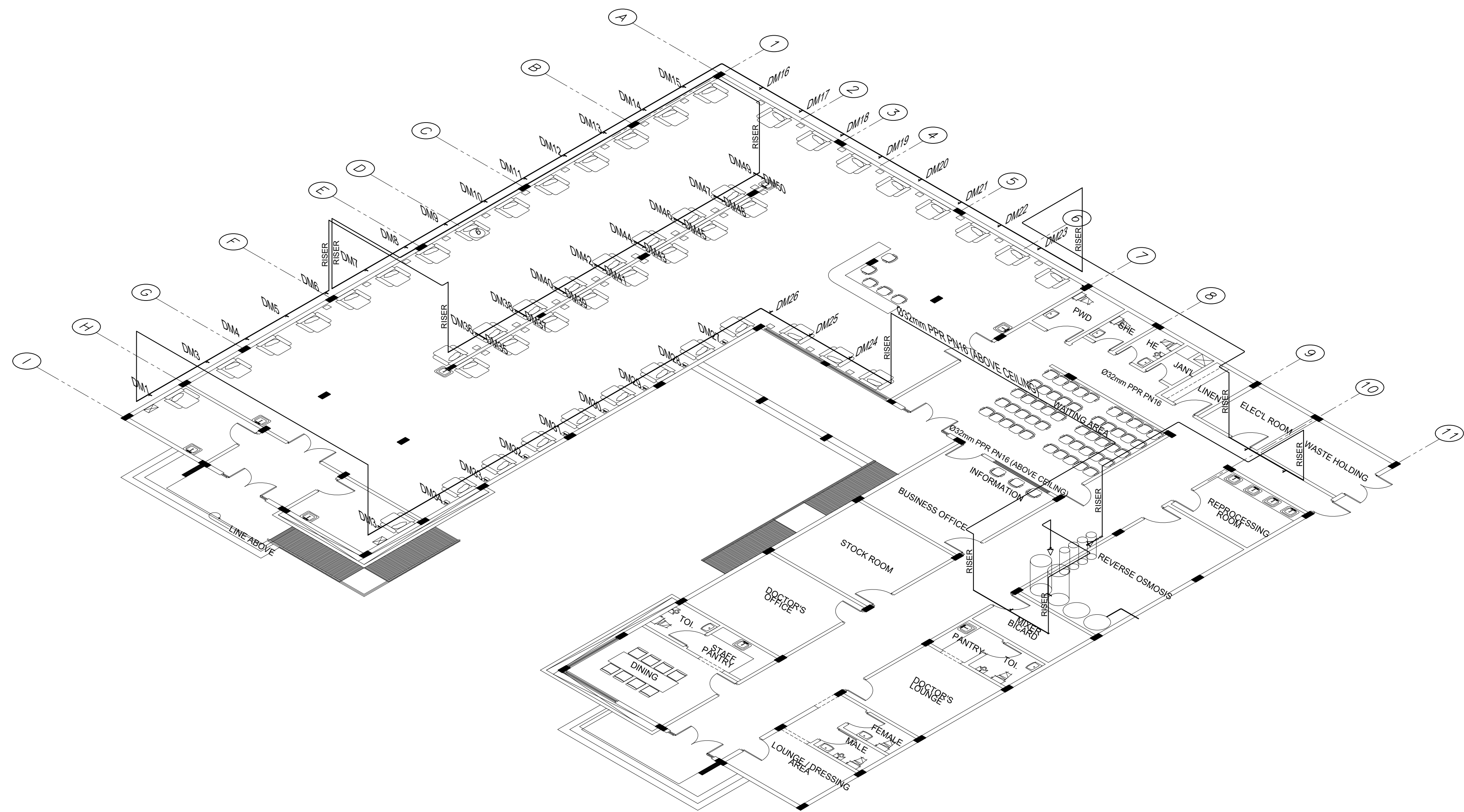


NOTE:  
Ø50 PIPE FOR URINAL, LAVATORY, SINKS, FLOOR DRAINS  
Ø110 PIPE FOR WATER CLOSET  
USE Ø80 PIPE FOR WASTE WATER COLLECTOR PIPE W/ MORE THAN 3 FIXTURES

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> Governor By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> PLUMBING	SHEET NO.: <b>P-4</b> 29 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: KENWAY D. TAYAG		APPROVED BY:		SHEET NO.:	

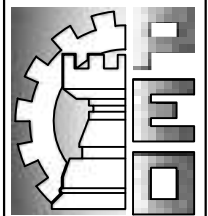


 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b> LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)	PREPARED BY: <b>BRYAN Q. ALVARADO</b> ENGINEER III CAD BY: KENWAY D. TAYAG	CHECKED & SUBMITTED BY: <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY: <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor: <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: <b>AS SHOWN</b> PLUMBING	SHEET NO.: <b>P-5</b> 30 of 31
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**ISOMETRIC LINE LAYOUT**

SCALE 1 : 100 MTS.

	FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA  <b>PROVINCIAL ENGINEER'S OFFICE</b> CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:  <b>CONSTRUCTION OF          MULTI-PURPOSE BUILDING          (DIALYSIS CENTER)</b>	PREPARED BY:  <b>BRYAN Q. ALVARADO</b> ENGINEER III	CHECKED & SUBMITTED BY:  <b>WILFREDO A. MANALILI</b> ASSIST. PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  <b>OLIMPIO M. PANGAN</b> PROVINCIAL ENGINEER	APPROVED BY:  <b>HON. DENNIS G. PINEDA</b> <small>Governor</small> By the Authority of the Governor:  <b>ATTY. CHARLIE G. CHUA</b> PROVINCIAL ADMINISTRATOR	SHEET CONTENTS:  <b>AS SHOWN</b> PLUMBING	SHEET NO.:  <b>P-6</b> 31 of 31
	LOCATION: PEO COMPOUND, SINDALAN, CITY OF SAN FERNANDO, (P)		CAD BY: KENWAY D. TAYAG					