GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTIONS, LOCATION OF DRAINS ETC.
3. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH		MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS,	4000 PSI	(27.6 MPa)	20mm	100mm
COLUMNS	4000 PSI	(27.6 MPa)	20mm	100mm
BEAMS, SLABS	4000 PSI	(27.6 MPa)	20mm	100mm
SLAB ON FILL	4000 PSI	(27.6 MPa)	20mm	100mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS.
   - SUSPENDED SLABS ——— 20mm
   - SLAB ON GRADE ——— 40mm
   - WALLS ABOVE GRADE ——— 25mm
   - BEAM STIRRUPS AND COLUMN TIES ——— 40mm
   - WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS ——— 50mm
   - WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH ——— 75mm
3. CONCTRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HAND LING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
5. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
7. STRIPPING OF FORMS AND SHORES:
   - FOUNDATION ——— 24 HRS.
   - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED ——— 8 DAYS
   - WALLS ——— 21 DAYS
   - BEAMS ——— 14 DAYS
   - COLUMNS ——— 21 DAYS
8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
9. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

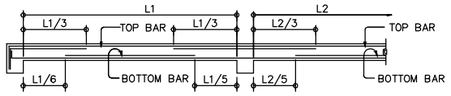
1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 96 KPa (2000 psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   - A. FOOTINGS, FOOTING BEAMS AND GIRDERS ——— fy = 275 MPa (40,000 psi)
   - B. COLUMNS AND SHEAR WALLS ——— fy = 275 MPa (40,000 psi)
   - C. BEAMS AND GIRDER ——— fy = 275 MPa (40,000 psi)
   - D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK. ——— fy = 227.5 MPa (33,000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
3. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

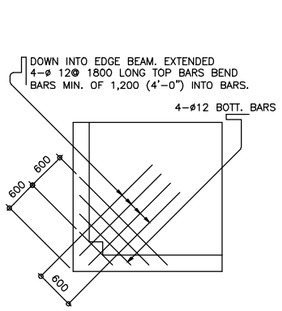


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

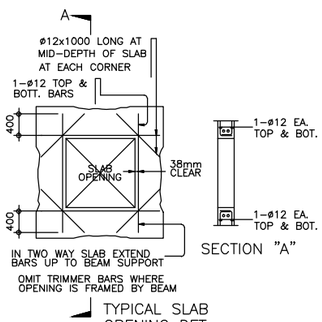
3. IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS-SECTIONAL AREA (Ag) OF THE SLAB (SEE SCHEDULE BELOW)

SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ø @ 250mm EACH WAY
125 mm	10 mm ø @ 225mm EACH WAY
150 mm	10 mm ø @ 185mm EACH WAY
175 mm	10 mm ø @ 150mm EACH WAY
200 mm	10 mm ø @ 140mm EACH WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm ø AT 250mm O.C EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mmø STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS



TYPICAL CORNER SLAB DETAIL

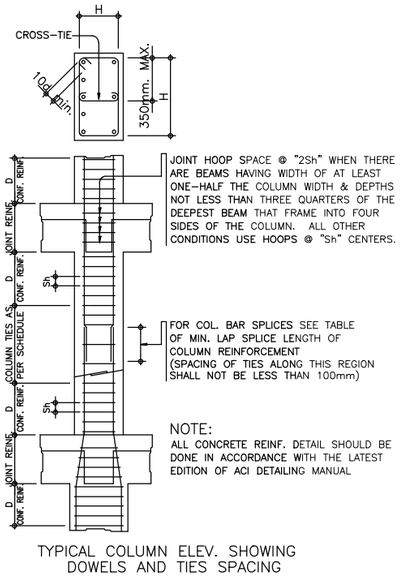


TYPICAL SLAB OPENING DET.

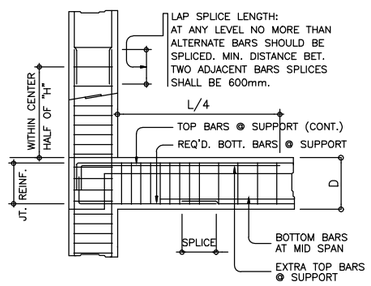
SECTION "A"

NOTES ON COLUMNS

1. PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
4. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS AND GIRDERS

1. UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIDER AT LEAST 6mmø FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

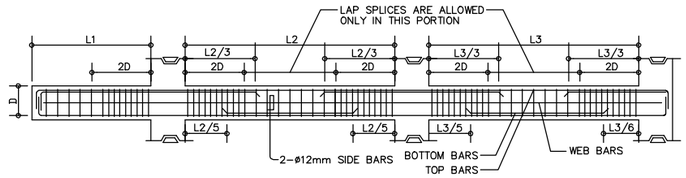


FIG. B-1

TABLE 'A'
TENSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	300	300	300	300
12mm ø	300	300	300	300
16mm ø	300	400	300	400
20mm ø	400	550	350	500
25mm ø	600	800	550	750
28mm ø	750	1000	650	850
32mm ø	950	1300	850	1100

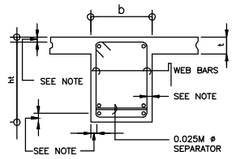
NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

TABLE 'B'
COMPRESSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

BAR SIZE (DEFORMED)	fc'= 20.7MPa(3000psi)		fc'= 27.6MPa(4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm ø	225	300	200	300
12mm ø	275	300	250	300
16mm ø	350	400	325	400
20mm ø	450	500	475	500
25mm ø	550	625	550	625
28mm ø	625	675	625	675
32mm ø	700	775	700	775

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

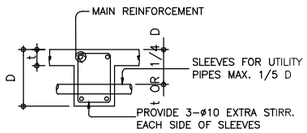
3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmø BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1

20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS AND GIRDERS

FIG. B-2



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM

FIG. B-3

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINF-ORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-1 1 | 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

GENERAL CONSTRUCTION NOTES

NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4–12mm WITH 6mmø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

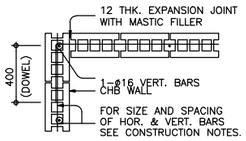
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
125 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	
150 mm	10mmø @ 600mm O.C.	10mmø @ 600mm O.C.	
200 mm	12mmø @ 600mm O.C.	12mmø @ 600mm O.C.	

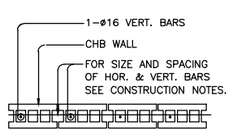
REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

LINTELS IN BLOCK WALLS

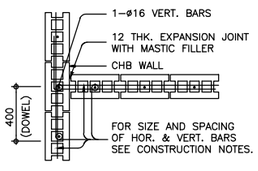
CLEAR SPAN ("L")	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M 1.50M 1.80M	1.60M 1.90M 2.20M	14.0	200 200 200	1–ø10 1–ø10 1–ø12	1–ø10 1–ø10 1–ø10	ø6mm @ 200mm ø6mm @ 200mm ø6mm @ 200mm
2.10M 2.40M 2.70M	2.50M 2.90M 3.10M	17.0	250 250 250	1–ø12 1–ø12 1–ø16	1–ø10 1–ø10 1–ø12	ø6mm @ 200mm ø6mm @ 200mm ø10mm @ 200mm
3.00 3.30 3.60	3.40M 3.70M 4.00	20.0	300 300 300	1–ø16 1–ø16 1–ø20	1–ø12 1–ø12 1–ø12	ø10mm @ 200mm ø10mm @ 200mm ø10mm @ 200mm



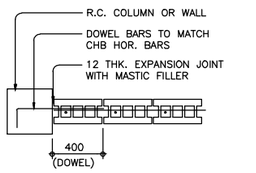
CORNER WALL



OPENING OR END WALL

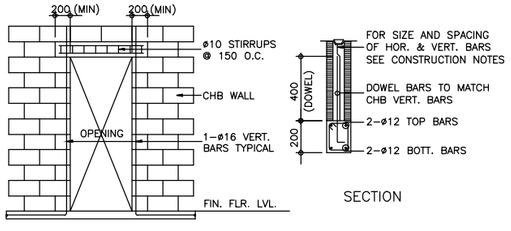


INTERSECTION WALL



INTERSECTING R.C. COL. OR WALL

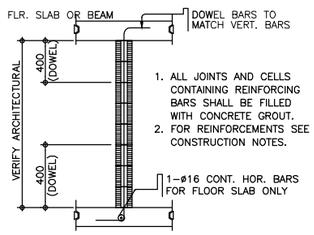
TYPICAL CONNECTION DETAIL OF MASONRY WALL



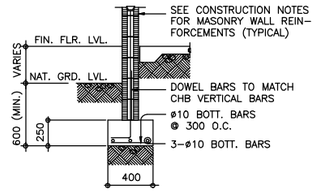
ELEVATION

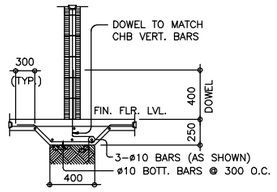
SECTION

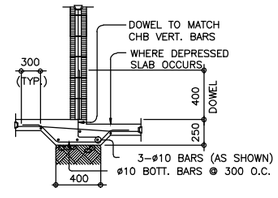
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



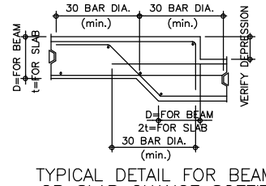
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS







TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

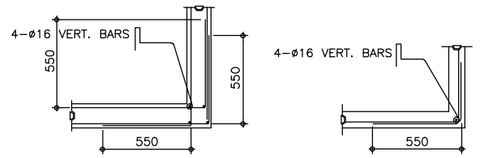
NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT			VERTICAL SECTION
	HORIZONTAL	VERTICAL	REMARKS	
100mm	ø10mm @ 250mm O.C.	ø10mm @ 300mm O.C.	HORIZONTAL BARS	VERT. BARS HORIZ. BARS
125mm	ø10mm @ 200mm O.C.	ø10mm @ 250mm O.C.	AT CENTERS VERTICAL	
150mm	ø12mm @ 250mm O.C.	ø12mm @ 300mm O.C.	BARS STAGGERED OUT	

REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.
3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2–20mmø BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2–16mmø. FOR 125mm AND 100mm WALLS, USE 2–12mmø BARS, ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U–FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

NOTES ON WELDS

1. USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

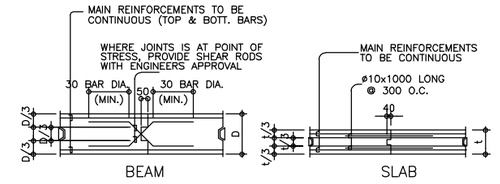
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBEDED PIPES

A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHCHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDED IN COLUMNS.

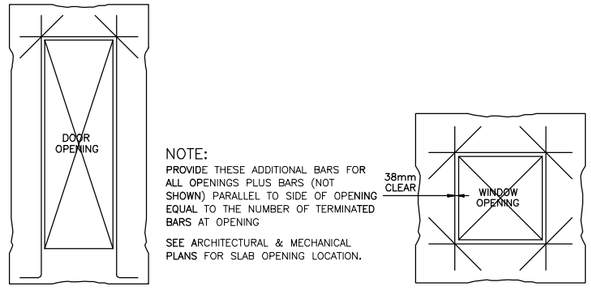
NOTES ON CONSTRUCTION JOINTS IN CONCRETE

1. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



BEAM SLAB

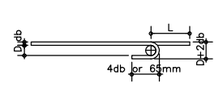
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



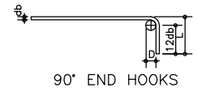
TYP. EXTERIOR WINDOW & DOOR OPENING

NOTES OF STIRRUPS

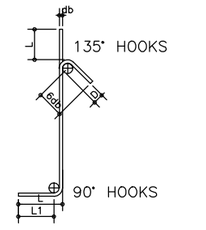
1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. REINFORCEMENT PARCIALLY EMBEDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.



180° END HOOKS



90° END HOOKS



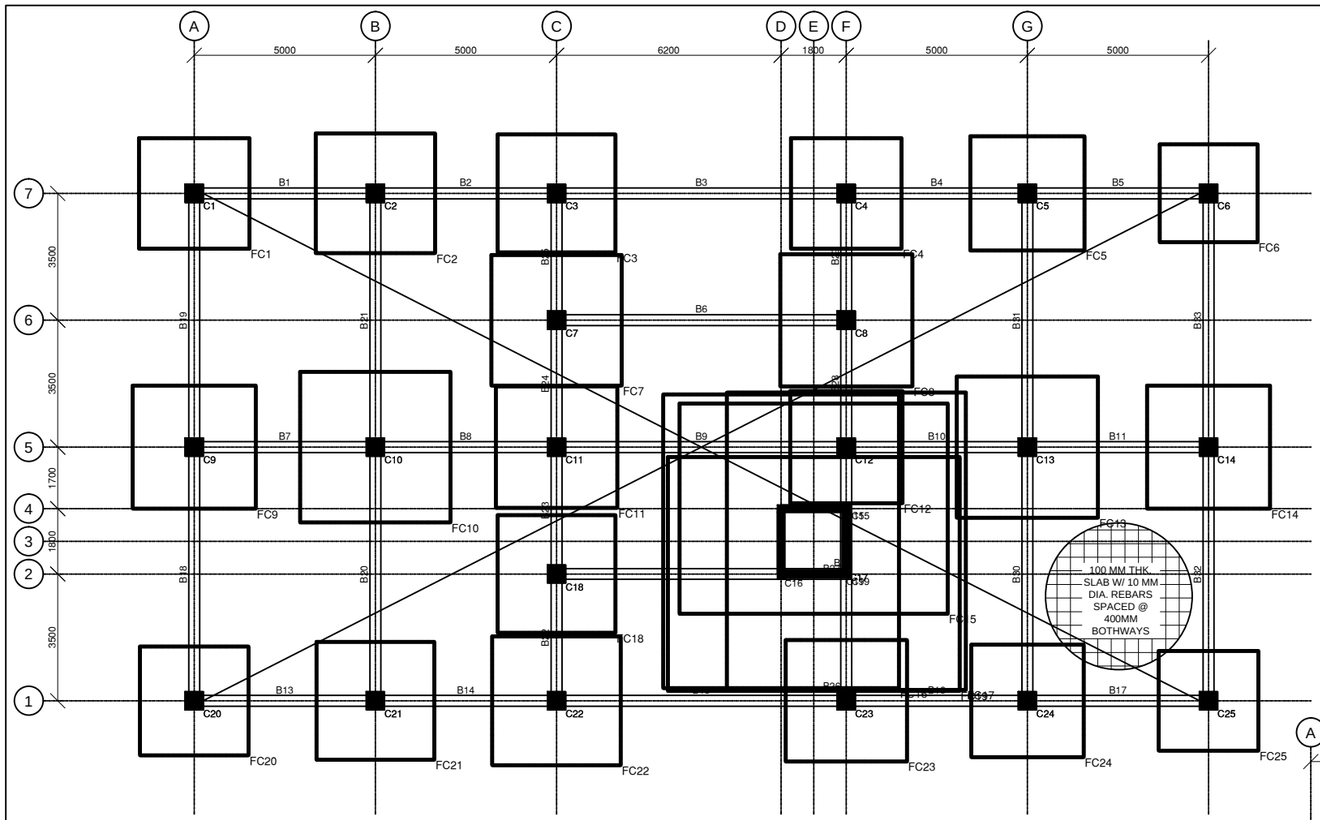
MAIN BAR END HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	60	75	125	150
12mm ø	75	100	150	200
16mm ø	95	125	175	250
20mm ø	115	150	200	300
25mm ø	150	200	230	450
28mm ø	240	300	350	550
32mm ø	300	335	450	600

STIRRUP AND TIE HOOKS (ALL GRADES)

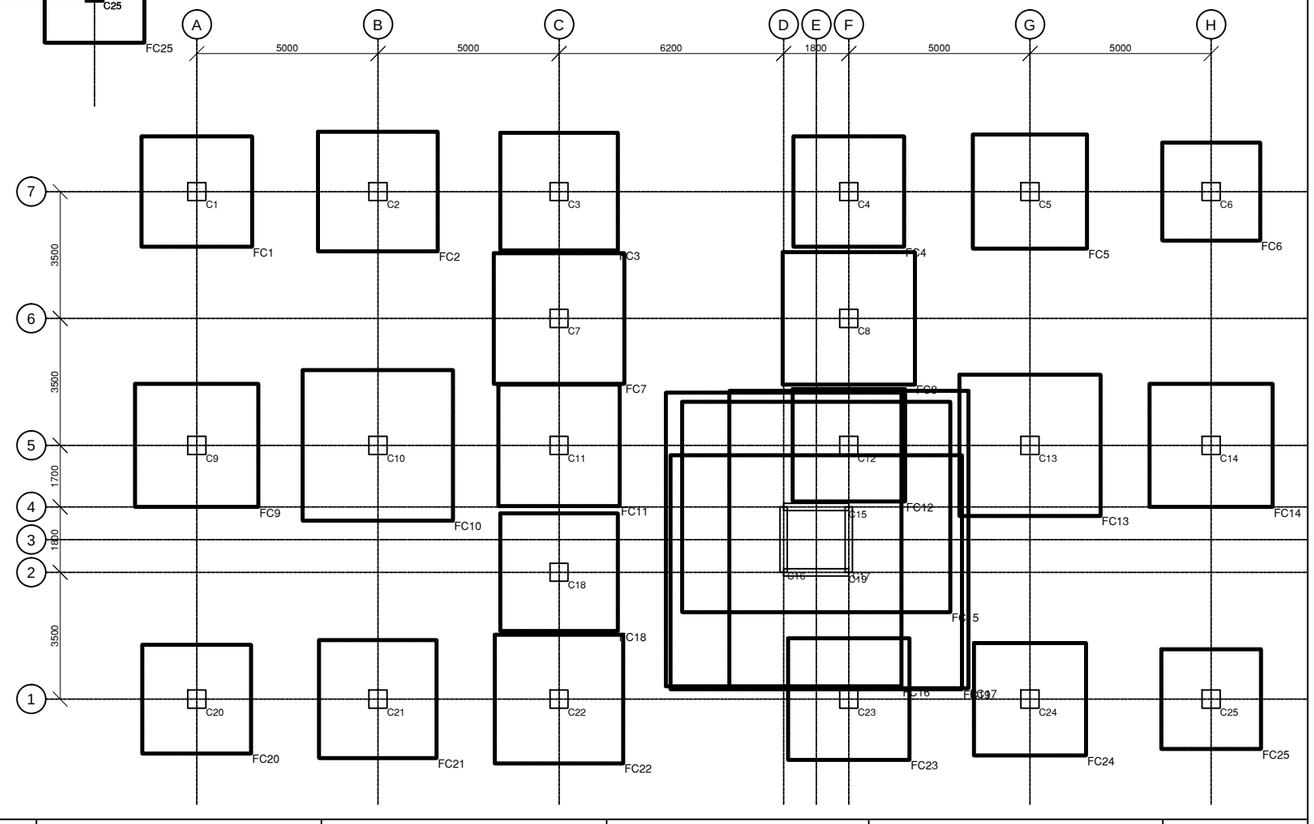
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	40	125	85	100
12mm ø	50	165	115	115
16mm ø	65	200	140	150
20mm ø	115	250	165	300
25mm ø	150	365	230	405

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAROL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-2 2 | 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



FOUNDATION PLAN

SCALE 1:100MTS



FOOTING LAYOUT

SCALE : 1: 100MTS.

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-3 3 20
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

BEAM SCHEDULE (C28:Fy276) (LEVEL: 0 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B2	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B3	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B4	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B5	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B6	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B7	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B8	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B9	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B10	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B11	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B12	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	14-2L-#10@165 C/C	12-2L-#10@165 C/C	14-2L-#10@165 C/C	-	-	-
B13	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B14	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B15	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B16	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B17	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B18	300	500	2-#20	+ 3-#20 2-#20	2-#20	+ 3-#20 + 3-#20 + 2-#20	3-#20	+ 3-#20 + 3-#20 + 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B19	300	500	2-#20	+ 3-#20 2-#20	2-#20	+ 3-#20 + 3-#20 + 2-#20	3-#20	+ 3-#20 + 3-#20 + 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B20	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B21	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B22	300	500	3-#20	3-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	2-#16EF	-	-
B23	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B24	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B25	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B26	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B27	300	500	2-#20	3-#20	3-#20	3-#20	3-#20	3-#20	4-2L-#10@165 C/C	2-2L-#10@165 C/C	4-2L-#10@165 C/C	2-#16EF	-	-
B28	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B29	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B30	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B31	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B32	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B33	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-

TIE BEAM SCHEDULE

SCALE : NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE PROJECT ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCHLYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-5 5 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

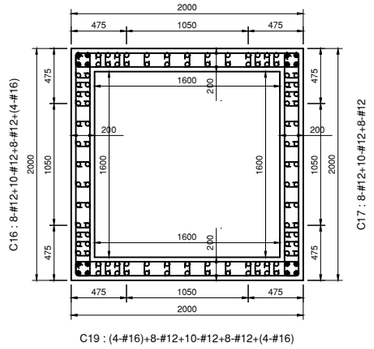
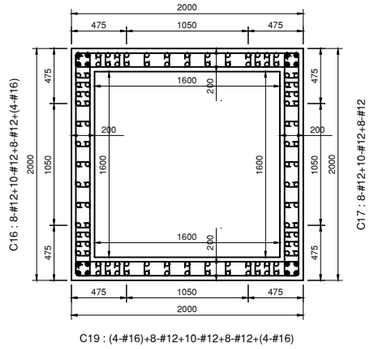
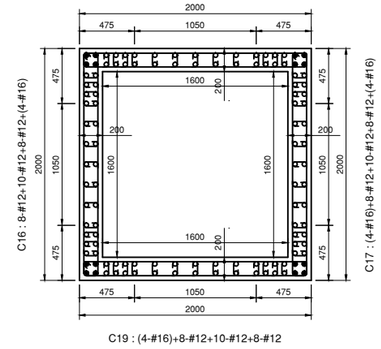
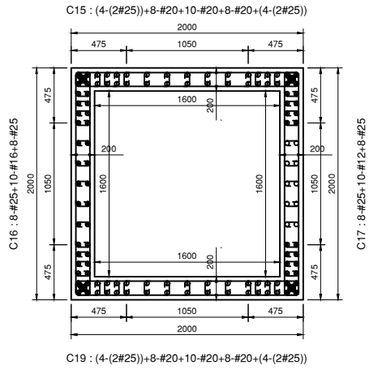
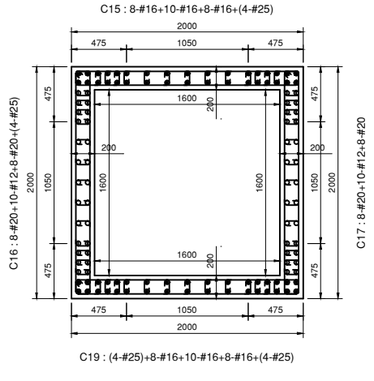
BEAM SCHEDULE (C28:Fy276) (LEVEL: 0 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B2	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B3	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B4	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B5	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B6	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B7	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B8	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B9	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B10	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B11	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B12	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	14-2L-#10@165 C/C	12-2L-#10@165 C/C	14-2L-#10@165 C/C	-	-	-
B13	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B14	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B15	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	17-2L-#10@165 C/C	15-2L-#10@165 C/C	17-2L-#10@165 C/C	-	-	-
B16	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B17	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B18	300	500	2-#20	+ 3-#20 2-#20	2-#20	+ 3-#20 + 3-#20 + 2-#20	3-#20	+ 3-#20 + 3-#20 + 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B19	300	500	2-#20	+ 3-#20 2-#20	2-#20	+ 3-#20 + 3-#20 + 2-#20	3-#20	+ 3-#20 + 3-#20 + 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B20	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B21	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B22	300	500	3-#20	3-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	2-#16EF	-	-
B23	300	500	2-#20	2-#20	2-#20	+ 3-#20 2-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B24	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B25	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B26	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B27	300	500	2-#20	3-#20	3-#20	3-#20	3-#20	3-#20	4-2L-#10@165 C/C	2-2L-#10@165 C/C	4-2L-#10@165 C/C	2-#16EF	-	-
B28	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B29	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	-	-	-
B30	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B31	300	500	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	-	-	-
B32	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-
B33	300	500	2-#20	3-#20	2-#20	+ 3-#20 2-#20	3-#20	+ 3-#20 2-#20	15-2L-#10@165 C/C	13-2L-#10@165 C/C	15-2L-#10@165 C/C	2-#16EF	-	-

TIE BEAM SCHEDULE

SCALE : NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE PROJECT ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-5 5 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

3.42 M TO 6.84 M	C28 : Fy276 , COVER = 40mm  ○#12 ●#16	C19 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C17 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C16 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C15 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300	6.84 M TO 10.26 M	C28 : Fy276 , COVER = 40mm  ○#12 ●#16	C19 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C17 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C16 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C15 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300	10.26 M TO 13.06 M	C28 : Fy414 , COVER = 40mm  ○#12 ●#16	C19 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C17 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C16 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C15 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300
-2.5 M TO 0 M	C28 : Fy276 , COVER = 40mm  ○#12 ●#16 ●#20 ●#25	C19 MAIN LINKS: #10 @ 250 / OTHER LINKS: #10@ 250 C17 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C16 MAIN LINKS: #10 @ 200 / OTHER LINKS: #10@ 200 C15 MAIN LINKS: #10 @ 175 / OTHER LINKS: #10@ 175	0 M TO 3.42 M	C28 : Fy276 , COVER = 40mm  ○#12 ●#16 ●#20 ●#25	C19 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C17 MAIN LINKS: #10 @ 300 / OTHER LINKS: #10@ 300 C16 MAIN LINKS: #10 @ 225 / OTHER LINKS: #10@ 225 C15 MAIN LINKS: #10 @ 250 / OTHER LINKS: #10@ 250			
COMBINED WALL	CW1						

COMBINED WALL SCHEDULE

(SCALE 1:25)

NOTES:

(Z1 = SPECIAL CONFINING ZONE AS PER NSCP - 2015, Z2 = REMAINING ZONES AS PER NSCP - 2015

(x-#xx) DENOTES BARS WITHIN INTERSECTION

COMBINED WALL SCHEDULE

SCALE : 1:125MTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE PROJECT ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-6 6 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	
	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	
	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 225	#10 @ 225	#10 @ 225	#10 @ 225	
	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	225 × 300, ●#20 ●#16	225 × 300, ●#20 ●#16	225 × 300, ●#20 ●#16	225 × 300, ●#20 ●#16	
	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 2-#16	4-#20 + 2-#16	4-#20 + 2-#16	4-#20 + 2-#16	
	C14	C18	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	
0 M	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm
TO	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS
3.42 M	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250
	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16
	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16
COLUMN MARKED	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13

	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm					
	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS					
	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250					
	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16					
	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16					
	C14	C18	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	
-2.5 M	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm	C28 : Fy276 , COVER = 40mm
TO	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS	LINKS
0 M	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250	#10 @ 250
	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16	500 × 500, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	510 × 510, ●#20 ●#16	500 × 500, ●#20 ●#16
	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16	4-#20 + 8-#16
COLUMN MARKED	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13

COLUMN DETAILS

SCALE : NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE PROJECT ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-7 7 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

COLUMN DETAILS

SCALE : NTS

10.26 M TO 13.06 M

COLUMN MARKED	CONCRETE / STEEL	LINKS	SECTION	REINFORCEMENT
C14				
C18	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C20				
C21				
C22	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C23	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C24				
C25				
C26				
C27				
C28				
C29				
C1				
C2				
C3				
C4				
C5				
C6				
C7	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C8	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C9				
C10				
C11	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C12	C28 : Fy414 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C13				

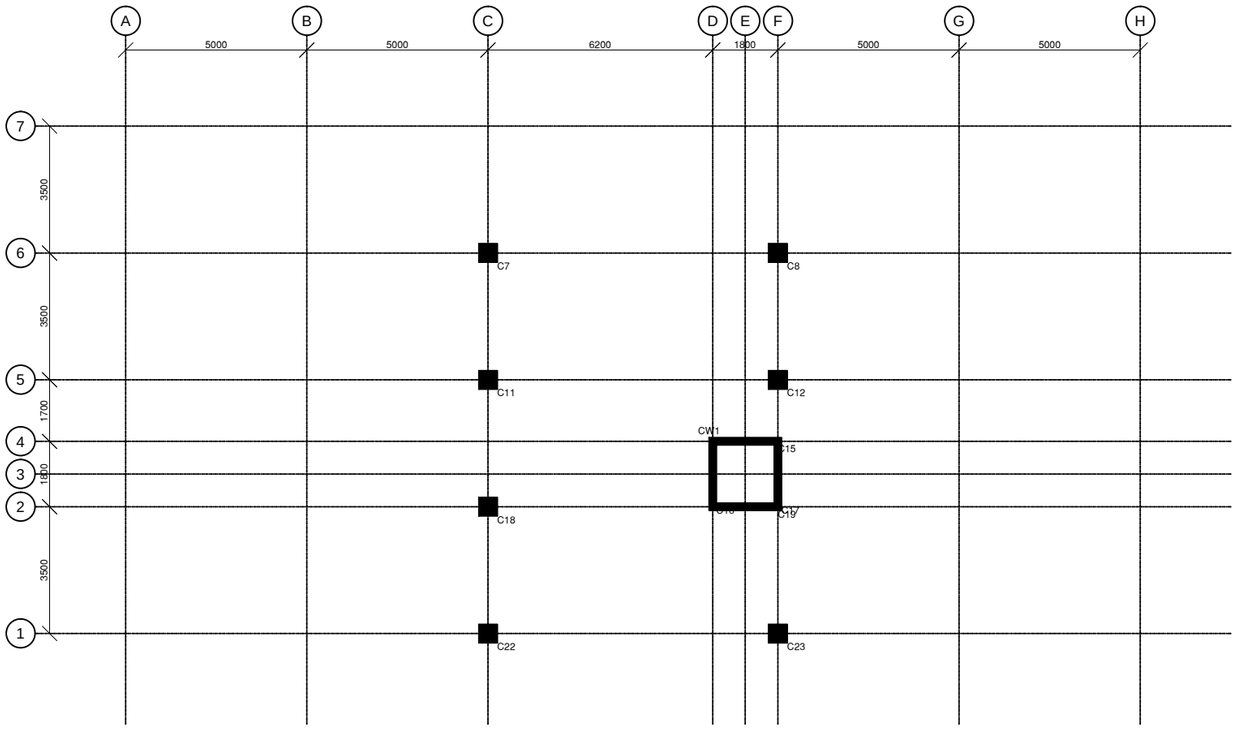
6.84 M TO 10.26 M

COLUMN MARKED	CONCRETE / STEEL	LINKS	SECTION	REINFORCEMENT
C14	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 (●#20 ●#16)	4-#20 + 8-#16
C18	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C20	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C21	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C22	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C23	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C24	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C25	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C26	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C27	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C28	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C29	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C1	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C2	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C3	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C4	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C5	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C6	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C7	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C8	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C9	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C10	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C11	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C12	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C13	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16

3.42 M TO 6.84 M

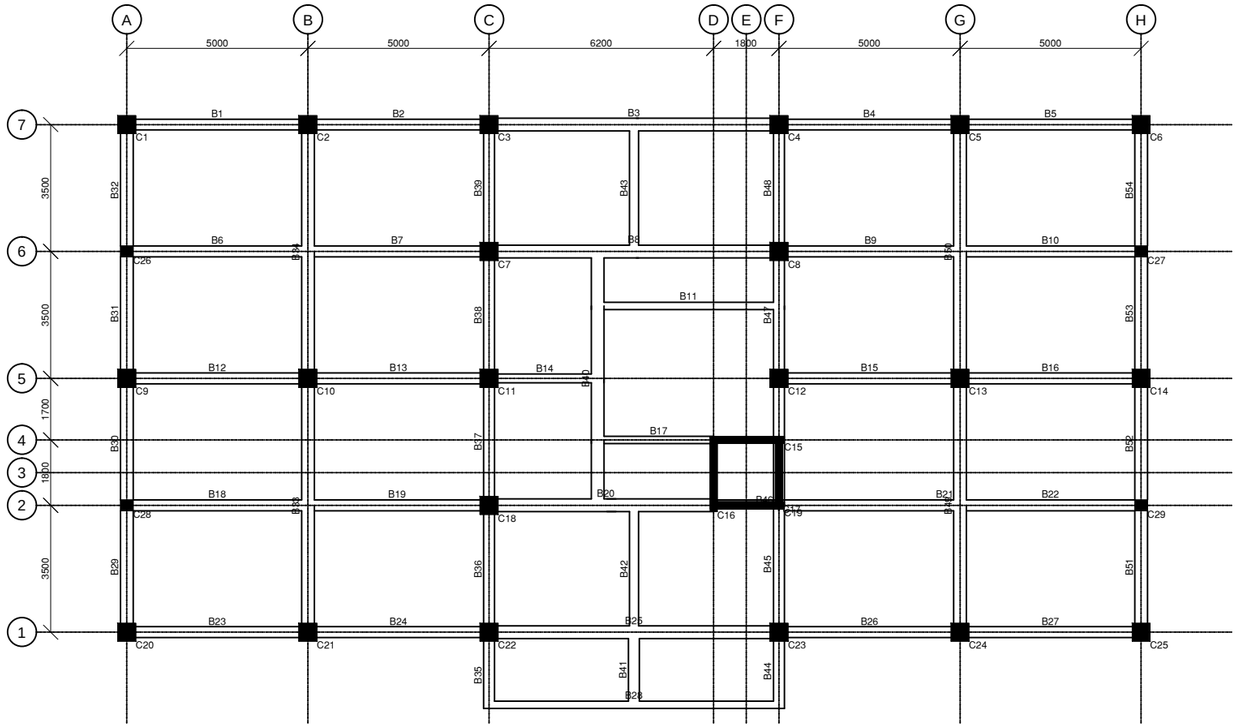
COLUMN MARKED	CONCRETE / STEEL	LINKS	SECTION	REINFORCEMENT
C14	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C18	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C20	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C21	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C22	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C23	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C24	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C25	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C26	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C27	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C28	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C29	C28 : Fy276 , COVER = 40mm	#10 @ 225	225 x 300 (●#20 ●#16)	4-#20 + 2-#16
C1	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C2	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C3	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C4	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C5	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C6	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16
C7	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C8	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C9	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C10	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C11	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C12	C28 : Fy276 , COVER = 40mm	#10 @ 250	510 x 510 (●#20 ●#16)	4-#20 + 8-#16
C13	C28 : Fy276 , COVER = 40mm	#10 @ 250	500 x 500 (●#20 ●#16)	4-#20 + 8-#16

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE PROJECT ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO B. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	AS - SHOWN	S-8 8 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



COLUMN LAYOUT AT ROOF DECK

SCALE 1:100MTS



SECOND AND THIRD FLOOR BEAM LAYOUT

SCALE 1:100MTS

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-9 9 20
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

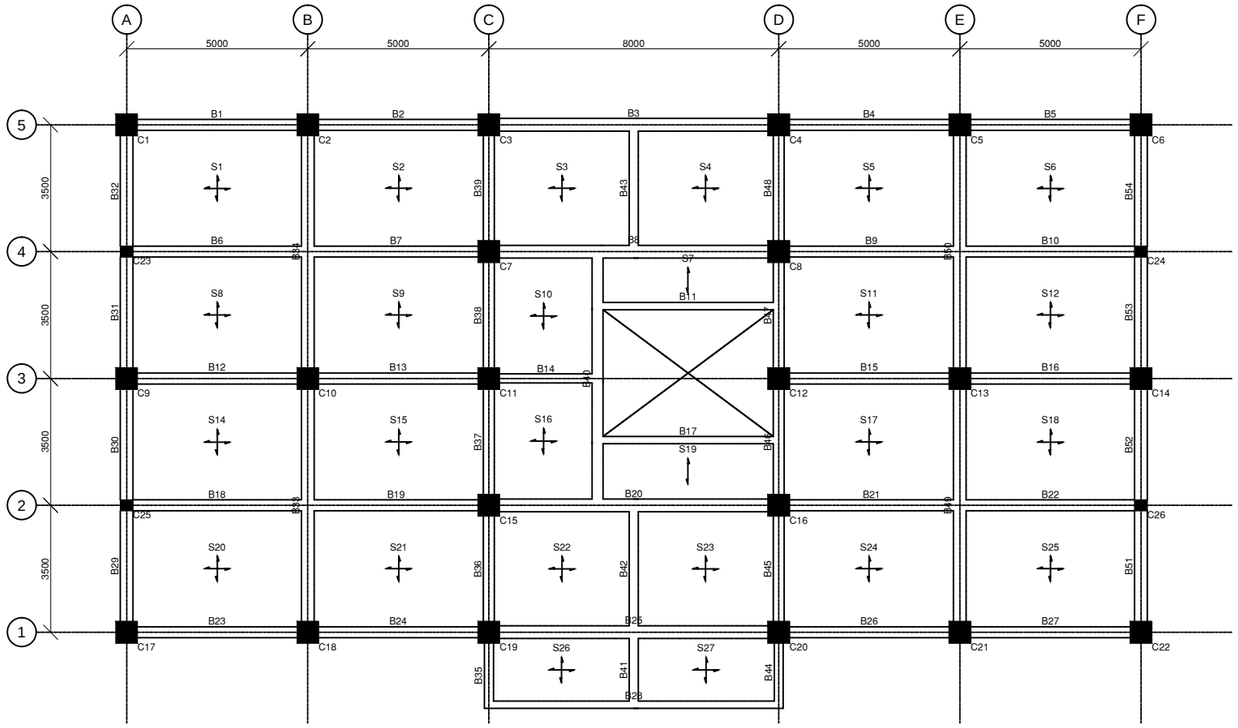
BEAM SCHEDULE (C28:Fy276) (LEVEL: 3.42 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B2	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B3	350	700	4-#20	4-#20	4-#20	4-#20 + 3-#20	4-#20	4-#20 + 3-#20	13-2L-#10@225 C/C	11-2L-#10@225 C/C	13-2L-#10@225 C/C	-	-	-
B4	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B5	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B6	300	500	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B7	300	500	2-#20	3-#20	2-#20	3-#20	3-#20	3-#20 + 3-#20 + 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	15-2L-#10@115 C/C	2-#16EF	-	-
B8	350	700	4-#20	4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 3-#20	4-#20	4-#20 + 4-#20 + 2-#20	28-2L-#10@95 C/C	17-2L-#10@145 C/C	18-2L-#10@155 C/C	3-#16EF	-	-
B9	300	500	2-#20	3-#20	2-#20	3-#20 + 3-#20 + 2-#20	3-#20	3-#20	12-2L-#10@145 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF	-	-
B10	300	500	2-#20	3-#20	2-#20	3-#20	3-#20	3-#20 + 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B11	200	600	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B12	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B13	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B14	250	500	2-#20	2-#20	2-#20 + 2-#20	2-#20 + 2-#20 + 2-#20	2-#20 + 2-#20	2-#20	10-2L-#10@100 C/C	8-2L-#10@100 C/C	10-2L-#10@100 C/C	2-#16EF	-	-
B15	300	600	2-#20	2-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B16	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B17	200	600	2-#20 + 2-#20	2-#20	2-#20	2-#20	2-#20 + 2-#20 + 2-#20	2-#20 + 2-#20 + 2-#20 + 2-#20	9-2L-#10@145 C/C	7-2L-#10@135 C/C	10-2L-#10@115 C/C	2-#16EF	-	-
B18	300	500	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B19	300	500	2-#20	3-#20	2-#20	3-#20	3-#20	3-#20 + 3-#20 + 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	14-2L-#10@120 C/C	2-#16EF	-	-
B20	350	700	4-#20	4-#20	4-#20	4-#20 + 3-#20	4-#20	4-#20 + 4-#20	13-2L-#10@175 C/C	12-2L-#10@165 C/C	14-2L-#10@165 C/C	3-#16EF	-	-
B21	300	500	2-#20	3-#20	2-#20	3-#20 + 3-#20	3-#20	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF	-	-
B22	300	500	2-#20	3-#20	2-#20	3-#20	3-#20	3-#20 + 2-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B23	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B24	300	600	2-#20	2-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	10-2L-#10@180 C/C	8-2L-#10@180 C/C	10-2L-#10@180 C/C	2-#16EF	-	-
B25	350	700	4-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 3-#20	4-#20	4-#20 + 4-#20 + 2-#20	29-4L-#12@90 C/C	13-4L-#12@180 C/C	25-4L-#12@105 C/C	4-#16EF	-	-
B26	300	600	2-#20	2-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B27	300	600	2-#20	2-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B28	200	400	2-#20	2-#20	2-#20	2-#20 + 2-#20	2-#20	2-#20 + 2-#20	24-2L-#10@115 C/C	22-2L-#10@115 C/C	24-2L-#10@115 C/C	-	-	-
B29	350	600	4-#20	4-#20	4-#20 + 2-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20	11-2L-#10@105 C/C	9-2L-#10@105 C/C	12-2L-#10@105 C/C	2-#16EF	-	-
B30	350	600	4-#20 + 2-#20	4-#20	4-#20	4-#20	4-#20 + 2-#20	4-#20 + 4-#20 + 2-#20	10-2L-#10@120 C/C	8-2L-#10@120 C/C	11-2L-#10@110 C/C	2-#16EF	-	-
B31	350	600	4-#20	4-#20	4-#20 + 2-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20	11-2L-#10@110 C/C	8-2L-#10@125 C/C	10-2L-#10@125 C/C	2-#16EF	-	-
B32	350	600	4-#20 + 2-#20	4-#20	4-#20	4-#20	4-#20 + 2-#20	4-#20 + 4-#20 + 2-#20	12-2L-#10@100 C/C	10-2L-#10@100 C/C	12-2L-#10@100 C/C	2-#16EF	-	-
B33	350	600	4-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 4-#20 + 3-#20	29-2L-#10@80 C/C	14-2L-#10@150 C/C	30-2L-#10@75 C/C	3-#16EF	-	-
B34	350	600	4-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 4-#20 + 3-#20	4-#20	4-#20 + 4-#20 + 4-#20 + 2-#20	16-4L-#10@150 C/C	10-4L-#10@200 C/C	18-4L-#10@135 C/C	2-#16EF	-	-
B35	300	600	2-#20	2-#20	2-#20	3-#20 + 3-#20	3-#20 + 3-#20	3-#20 + 3-#20	8-2L-#12@95 C/C	6-2L-#12@95 C/C	8-2L-#12@95 C/C	3-#16EF	-	CANTILEVERED
B36	300	600	3-#20	3-#20	3-#20	3-#20 + 3-#20	3-#20	3-#20 + 2-#20	8-2L-#10@150 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B37	300	600	3-#20	2-#20	3-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B38	300	600	3-#20	3-#20	3-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B39	300	600	2-#20	3-#20	3-#20	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B40	350	600	3-#20	3-#20	3-#20	3-#20	3-#20	3-#20	26-2L-#12@90 C/C	24-2L-#12@90 C/C	13-2L-#12@200 C/C	4-#16EF	-	-
B41	300	600	2-#20	2-#20	2-#20	3-#20	3-#20 + 2-#20	3-#20 + 3-#20	5-2L-#10@190 C/C	3-2L-#10@190 C/C	5-2L-#10@190 C/C	-	-	-
B42	250	500	2-#20	2-#20	2-#20	2-#20 + 2-#20	2-#20	2-#20	8-2L-#10@150 C/C	6-2L-#10@150 C/C	9-2L-#10@150 C/C	2-#16EF	-	-
B43	250	500	2-#20	2-#20 + 2-#20	2-#20	2-#20	2-#20	2-#20	8-2L-#10@150 C/C	6-2L-#10@150 C/C	9-2L-#10@150 C/C	-	-	-
B44	300	600	2-#20	2-#20	2-#20	3-#20 + 3-#20	3-#20 + 3-#20	3-#20 + 3-#20	8-2L-#12@95 C/C	6-2L-#12@95 C/C	8-2L-#12@95 C/C	3-#16EF	-	CANTILEVERED
B45	300	600	2-#20	3-#20	3-#20	3-#20 + 2-#20	3-#20	3-#20 + 3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B46	300	600	3-#20 + 2-#20	3-#20	3-#20 + 2-#20	3-#20 + 3-#20	3-#20	3-#20 + 2-#20	4-2L-#10@190 C/C	2-2L-#10@190 C/C	4-2L-#10@190 C/C	2-#16EF	-	-
B47	300	600	2-#20	3-#20	2-#20	3-#20 + 2-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B48	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B49	350	600	4-#20	4-#20 + 4-#20	4-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 4-#20	21-4L-#10@110 C/C	10-4L-#10@200 C/C	20-4L-#10@115 C/C	3-#16EF	-	-
B50	350	600	4-#20	4-#20 + 4-#20 + 2-#20	4-#20	4-#20 + 4-#20 + 4-#20	4-#20	4-#20 + 4-#20 + 2-#20	15-4L-#10@160 C/C	10-4L-#10@200 C/C	18-4L-#10@130 C/C	3-#16EF	-	-
B51	350	600	4-#20	4-#20	4-#20	4-#20 + 2-#20	4-#20	4-#20	11-2L-#10@105 C/C	9-2L-#10@110 C/C	11-2L-#10@110 C/C	2-#16EF	-	-
B52	350	600	4-#20	4-#20	4-#20	4-#20	4-#20	4-#20 + 2-#20	10-2L-#10@125 C/C	8-2L-#10@125 C/C	11-2L-#10@115 C/C	2-#16EF	-	-
B53	350	600	4-#20	4-#20	4-#20	4-#20 + 2-#20	4-#20	4-#20	11-2L-#10@110 C/C	8-2L-#10@125 C/C	10-2L-#10@125 C/C	2-#16EF	-	-
B54	350	600	4-#20	4-#20	4-#20	4-#20	4-#20	4-#20 + 2-#20	12-2L-#10@100 C/C	10-2L-#10@100 C/C	12-2L-#10@100 C/C	2-#16EF	-	-

SECOND AND THIRD FLOOR BEAM SCHEDULE

SCALE NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO F. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-10 10 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



SECOND AND THIRD FLOOR SLAB LAYOUT

SCALE 1:100MTS

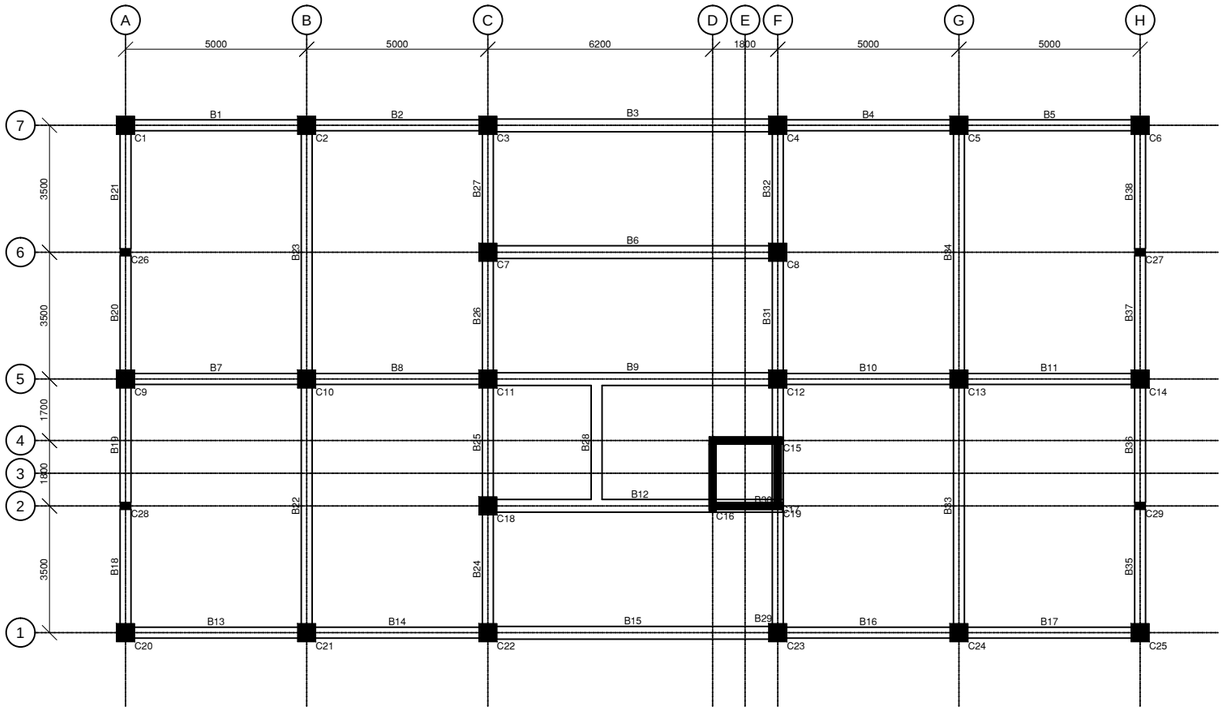
SLAB SCHEDULE (C28 : FY276) (LEVEL : 3.42 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1, S2, S5, S6 S20, S21, S24 S25, S26, S27	100	#12 @ 270 C/C	#12 @ 270 C/C	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	---
S3, S4, S10	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	---
S7	100	#12 @ 270 C/C	#12 @ 270 C/C	#12 @ 135 C/C	---	#12 @ 135 C/C	---	---	#12 @ 135 C/C	#12 @ 135 C/C	---
S8, S12, S14 S18	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	---
S9, S15, S22 S23	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	---
S11, S17	100	#12 @ 135 C/C	---	#12 @ 120 C/C	---	#12 @ 135 C/C	---	---	#12 @ 135 C/C	#12 @ 135 C/C	---
S16	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	---	#12 @ 135 C/C	#12 @ 135 C/C	---	#12 @ 135 C/C	---
S19	100	#12 @ 270 C/C	#12 @ 270 C/C	#12 @ 270 C/C	#12 @ 270 C/C	#12 @ 135 C/C	---	---	#12 @ 135 C/C	#12 @ 135 C/C	---

SECOND AND THIRD FLOOR SLAB SCHEDULE

SCALE NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO R. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-11 11 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



ROOF BEAM LAYOUT

SCALE 1:100MTS

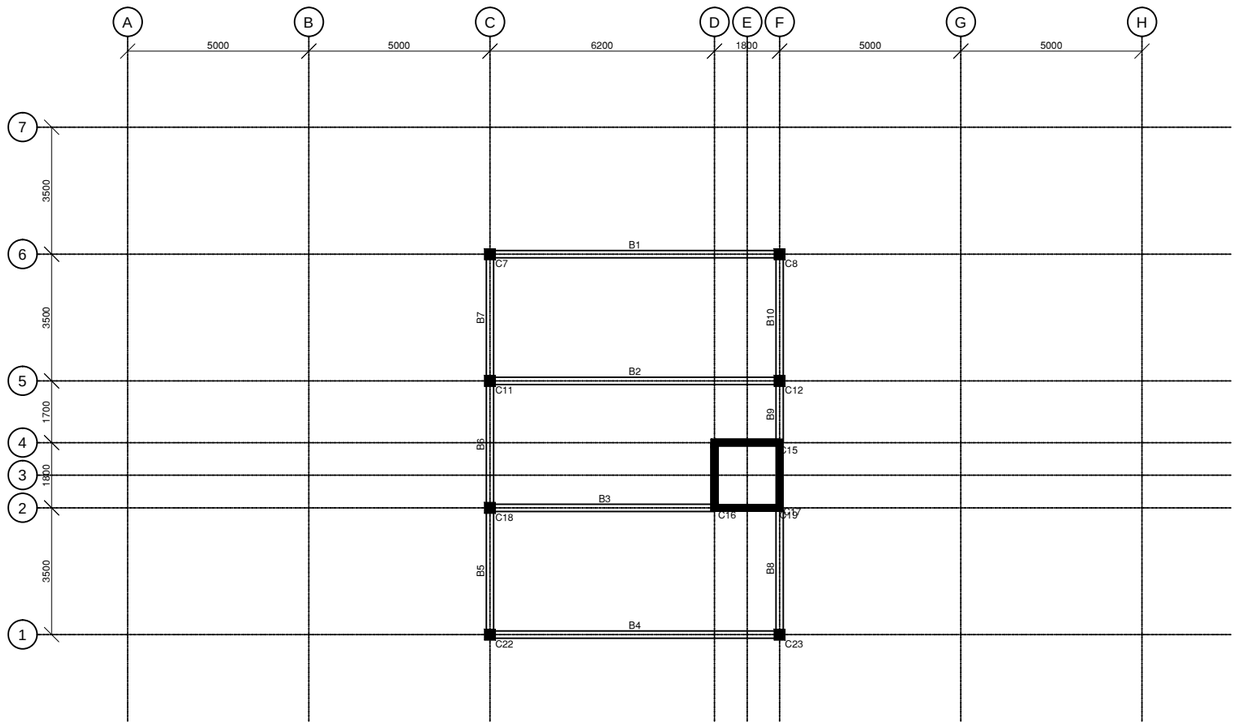
BEAM SCHEDULE (C28:Fy276) (LEVEL: 10.26 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B2	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B3	350	700	3-#20	3-#20	3-#20	3-#20	3-#20	3-#20	13-2L-#10@225 C/C	11-2L-#10@225 C/C	13-2L-#10@225 C/C	-	-	-
B4	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B5	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B6	350	700	4-#20	4-#20	4-#20	+ 4-#20 2-#20	4-#20	+ 4-#20 2-#20	13-2L-#10@225 C/C	11-2L-#10@225 C/C	13-2L-#10@225 C/C	-	-	-
B7	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B8	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B9	350	700	4-#20	4-#20	4-#20	+ 4-#20 2-#20	4-#20	+ 4-#20 2-#20	13-2L-#10@225 C/C	11-2L-#10@225 C/C	13-2L-#10@225 C/C	-	-	-
B10	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B11	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B12	350	700	3-#20	3-#20	3-#20	4-#20	4-#20	+ 4-#20 2-#20	10-2L-#10@225 C/C	8-2L-#10@225 C/C	10-2L-#10@225 C/C	-	-	-
B13	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B14	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B15	350	700	3-#20	3-#20	3-#20	4-#20	4-#20	4-#20	13-2L-#10@225 C/C	11-2L-#10@225 C/C	13-2L-#10@225 C/C	-	-	-
B16	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-
B17	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	9-2L-#10@190 C/C	7-2L-#10@190 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B18	300	600	2-#20	3-#20	3-#20	+ 3-#20 2-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B19	300	600	3-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B20	300	600	2-#20	3-#20	3-#20	+ 3-#20 2-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B21	300	600	+ 3-#20 2-#20	3-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B22	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	13-2L-#10@190 C/C	11-2L-#10@190 C/C	13-2L-#10@190 C/C	-	-	-
B23	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	13-2L-#10@190 C/C	11-2L-#10@190 C/C	13-2L-#10@190 C/C	-	-	-
B24	300	600	3-#20	2-#20	3-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B25	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B26	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B27	300	600	3-#20	2-#20	3-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B28	300	600	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	8-2L-#10@165 C/C	6-2L-#10@165 C/C	8-2L-#10@165 C/C	2-#16EF	-	-
B29	300	600	3-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B30	300	600	3-#20	3-#20	+ 3-#20 2-#20	+ 3-#20 2-#20	3-#20	3-#20	6-2L-#10@100 C/C	4-2L-#10@100 C/C	6-2L-#10@100 C/C	2-#16EF	-	-
B31	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B32	300	600	3-#20	2-#20	2-#20	3-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-
B33	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	13-2L-#10@190 C/C	11-2L-#10@190 C/C	13-2L-#10@190 C/C	-	-	-
B34	300	600	2-#20	2-#20	2-#20	3-#20	3-#20	3-#20	13-2L-#10@190 C/C	11-2L-#10@190 C/C	13-2L-#10@190 C/C	-	-	-
B35	300	600	2-#20	3-#20	3-#20	+ 3-#20 2-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B36	300	600	3-#20	2-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B37	300	600	2-#20	3-#20	3-#20	+ 3-#20 2-#20	3-#20	3-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	-	-	-
B38	300	600	+ 3-#20 2-#20	3-#20	2-#20	3-#20	3-#20	+ 3-#20 2-#20	7-2L-#10@190 C/C	5-2L-#10@190 C/C	7-2L-#10@190 C/C	2-#16EF	-	-

ROOF BEAM SCHEDULE

SCALE NTS

PROJECT TITLE : **COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS**	PREPARED BY: AIVY B. GAPOL, CE, ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: PANGASIAN B. MAMINTAS,CE, COLLEGE ENGINEER	NOTED BY: ATTY. DOMINGO T. REDELOSA IV, PAGADIAN-CAMPUS ADMIN.	RECOMMENDING APPROVAL: RODRIGO B. MILLARES JR., REE,EnP., PLANNING AND DEVELOPMENT DIRECTOR	APPROVED BY: MARY JOCELYN V. BATTUNG,Ph.D, JHCSC - PRESIDENT	SHEET CONTENT : **AS - SHOWN**	SHEET NO. : S-12
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		12 of 20



ROOF DECK BEAM LAYOUT

SCALE 1:100MTS

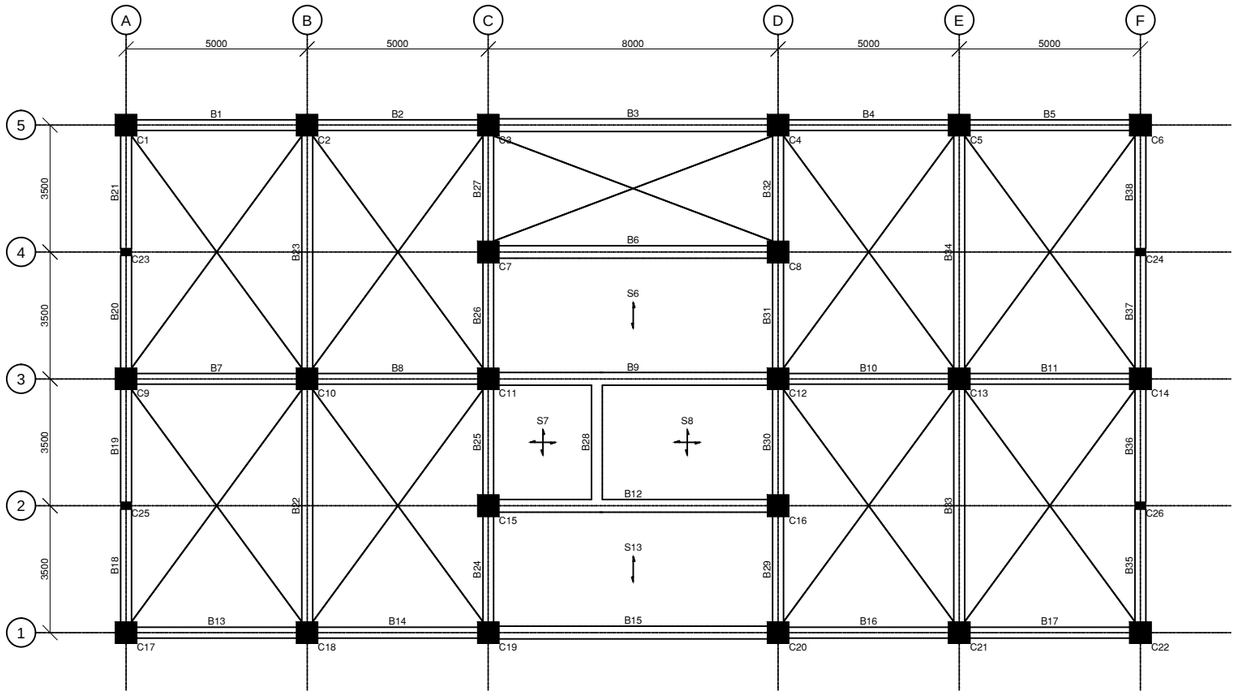
BEAM SCHEDULE (C28:Fy276) (LEVEL: 13.06 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	200	400	2-#16	2-#16	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	24-2L-#10@115 C/C	22-2L-#10@115 C/C	24-2L-#10@115 C/C	-	-	-
B2	200	400	2-#16	2-#16	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	24-2L-#10@115 C/C	22-2L-#10@115 C/C	24-2L-#10@115 C/C	-	-	-
B3	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	+ 2-#16 2-#16	19-2L-#10@115 C/C	17-2L-#10@115 C/C	19-2L-#10@115 C/C	-	-	-
B4	200	400	2-#16	2-#16	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	24-2L-#10@115 C/C	22-2L-#10@115 C/C	24-2L-#10@115 C/C	-	-	-
B5	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@115 C/C	9-2L-#10@115 C/C	11-2L-#10@115 C/C	1-#16EF	-	-
B6	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@115 C/C	9-2L-#10@115 C/C	11-2L-#10@115 C/C	1-#16EF	-	-
B7	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@115 C/C	9-2L-#10@115 C/C	11-2L-#10@115 C/C	-	-	-
B8	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	+ 2-#16 2-#16	11-2L-#10@115 C/C	9-2L-#10@115 C/C	11-2L-#10@115 C/C	1-#16EF	-	-
B9	200	400	2-#16	2-#16	2-#16	+ 2-#16 2-#16	2-#16	2-#16	6-2L-#10@115 C/C	4-2L-#10@115 C/C	6-2L-#10@115 C/C	1-#16EF	-	-
B10	200	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@115 C/C	9-2L-#10@115 C/C	11-2L-#10@115 C/C	-	-	-

ROOF DECK BEAM SCHEDULE

SCALE NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-13 13 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



ROOF DECK SLAB LAYOUT

SCALE 1:100MTS

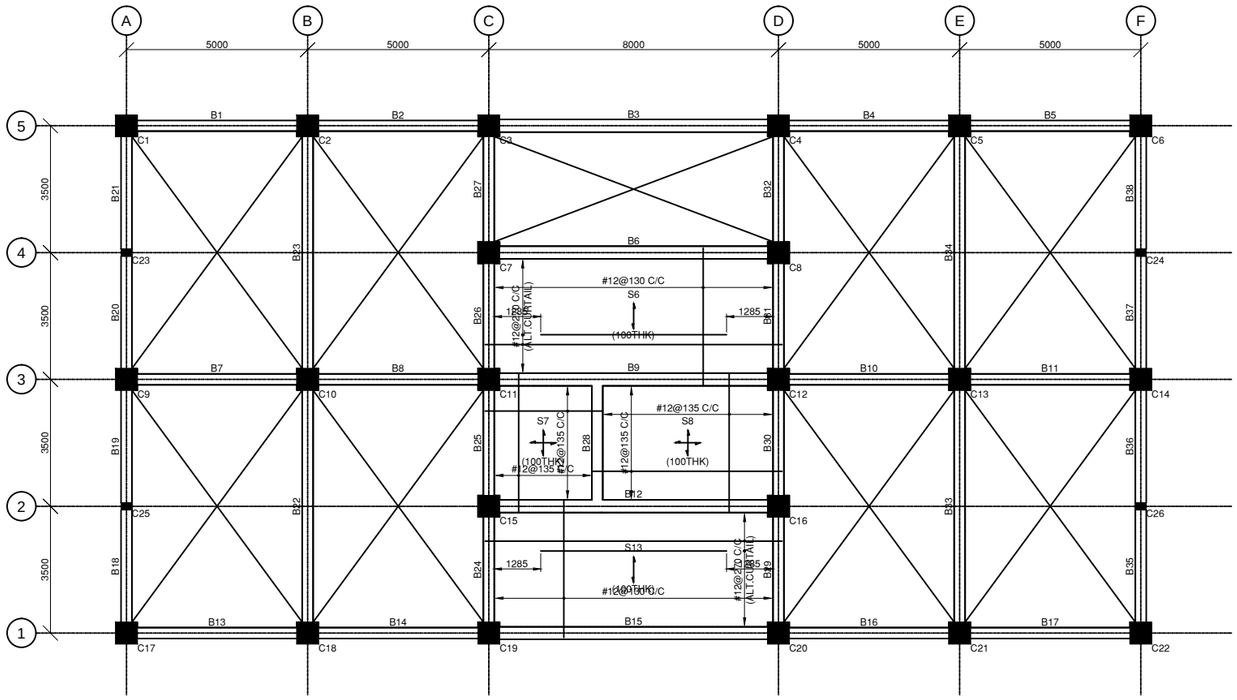
SLAB SCHEDULE (C28 : FY276) (LEVEL : 10.26 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S6, S13	100	#12 @ 130 C/C	---	#12 @ 270 C/C	#12 @ 270 C/C	#16 @ 130 C/C	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	---
S7	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	---
S8	100	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	---	#12 @ 135 C/C	#12 @ 135 C/C	#12 @ 135 C/C	---

ROOF DECK SLAB SCHEDULE

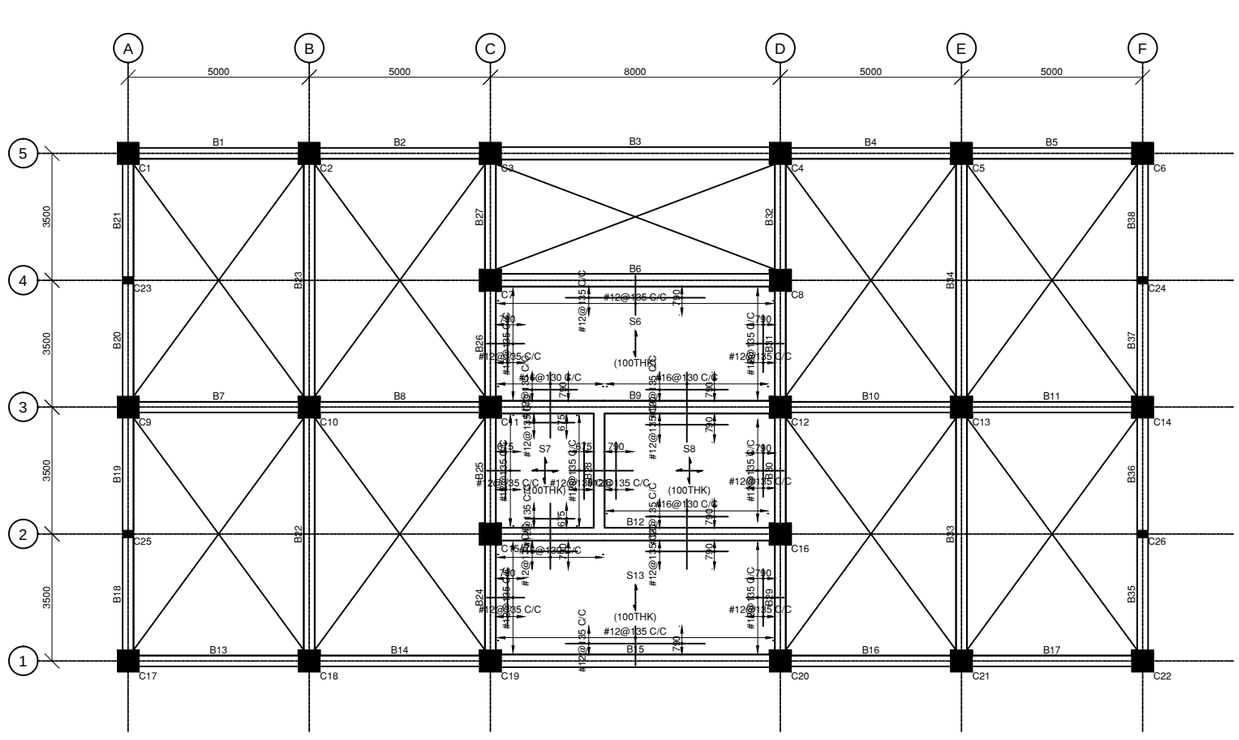
SCALE NTS

PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN H. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO R. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-14 14 20
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



ROOF DECK BOTTOM REINFORCEMENT

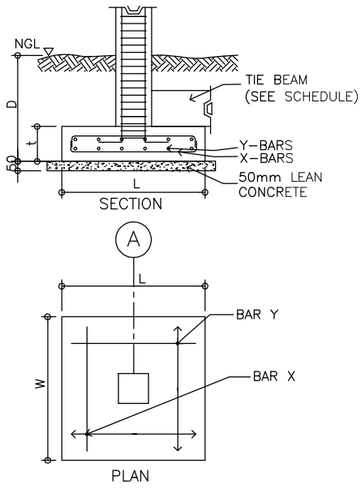
SCALE 1:100MTS



ROOF DECK TOP REINFORCEMENT

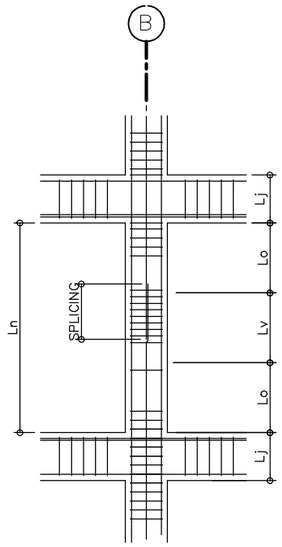
SCALE 1:100 MTS

H.C. CERILLES STATE COLLEGE 1996 2001	PROJECT TITLE : **COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS**	PREPARED BY: AIVY B. GAPOL, CE, ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: PANGASIAN B. MIMINTAS,CE, COLLEGE ENGINEER	NOTED BY: ATTY. DOMINGO T. REDELOSA IV, PAGADIAN-CAMPUS ADMIN.	RECOMMENDING APPROVAL: RODRIGO P. MILLARES JR., REE,EnP., PLANNING AND DEVELOPMENT DIRECTOR	APPROVED BY: MARY JOCELYN V. BATTUNG,Ph.D, JHCSC - PRESIDENT	SHEET CONTENT : **AS - SHOWN**	SHEET NO. : S-15, 15 | 20
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



1 S-4 **TYPICAL FOOTING DETAIL**

NOT TO SCALE

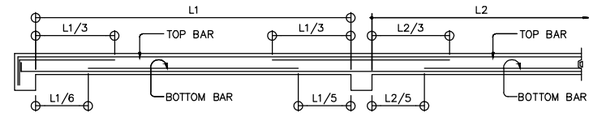


2 S-4 **ELEVATION OF COLUMN**

SCALE 1:100 M.

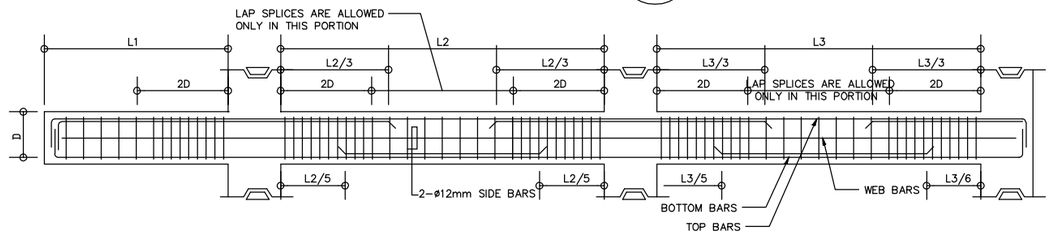
STIRRUP CONFIGURATIONS:

I - 1 @ 50mm, 10 @ 100mm, 5 @ 150mm, REST @ 200mm TO MIDSPAN
II - 1 @ 50mm, 8 @ 100mm, 5 @ 150mm, REST @ 175mm TO MIDSPAN
III - 1 @ 50mm, 8 @ 100mm, REST @ 200mm TO MIDSPAN
IV - 1 @ 50mm, 8 @ 100mm, REST @ 175mm TO MIDSPAN
V - 1 @ 50mm, 6 @ 100mm, REST @ 200mm TO MIDSPAN
VI - 1 @ 50mm, 4 @ 100mm, REST @ 150mm TO MIDSPAN



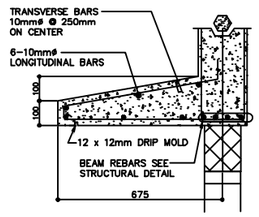
1 S-6 **TYPICAL SLAB ELEVATION**

NOT TO SCALE



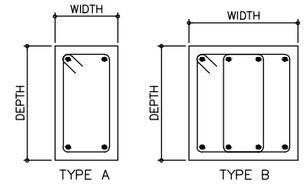
2 S-6 **TYPICAL BEAM ELEVATION**

NOT TO SCALE



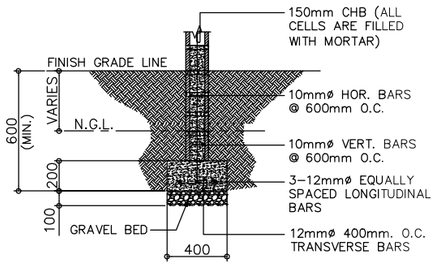
4 S-6 **CONCRETE SUNBREAKER DETAIL**

SCALE 1:10 M.

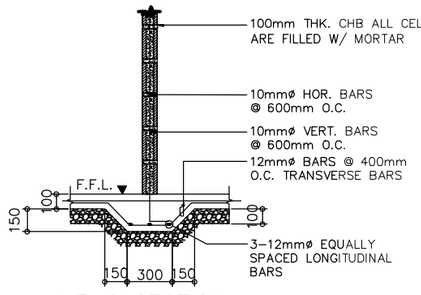


3 S-6 **TYPE OF STIRRUPS**

NOT TO SCALE



WF-1 SECTION



WF-2 SECTION

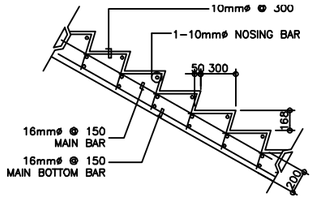
3 S-4 **DETAIL OF WALL FOOTINGS**

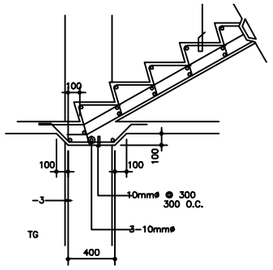
SCALE 1:20 M.

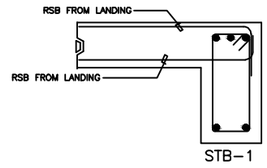
SCHEDULE OF SLABS

FLOOR LEVEL	SLAB MARK	THICKNESS (mm)	ALONG SHORT DIRECTION							ALONG LONG DIRECTION							REMARKS
			REBAR (mm ø)	CONTINUOUS		MID SPAN		DISCONTINUOUS		REBAR (mm ø)	CONTINUOUS		MID SPAN		DISCONTINUOUS		
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
GF (TYP.)	TYP. SLAB	125	Ø 10mm	400						Ø 10mm		400					

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-16 16 20
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



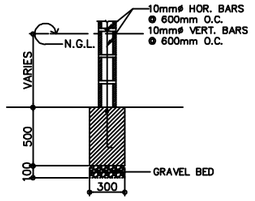




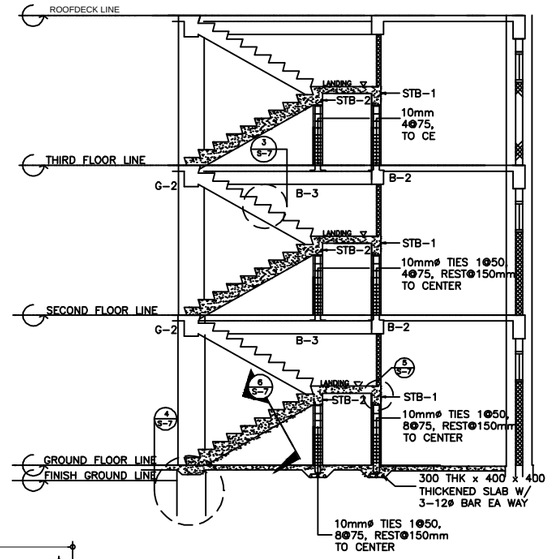
5 S-7 SPOT DETAIL
SCALE 1:20 M.

4 S-7 SPOT DETAIL
SCALE 1:20M

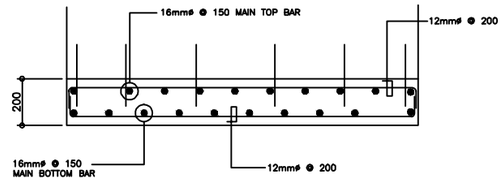
3 S-7 SPOT DETAIL
SCALE 1:20M



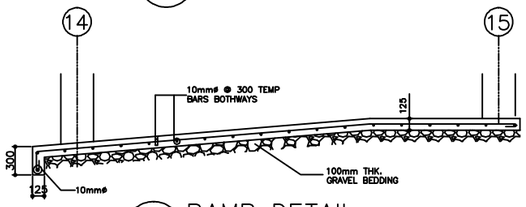
10 S-7 DET. OF WALL ON FTB
SCALE 1:20M.



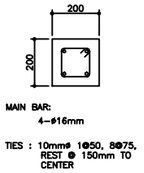
2 S-7 STAIR SECTION DETAIL
SCALE 1:50M



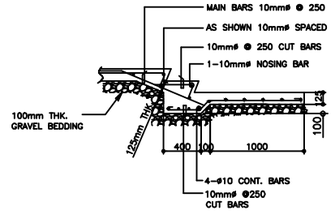
6 S-7 SECTION OF STAIR SLAB
SCALE 1:10M



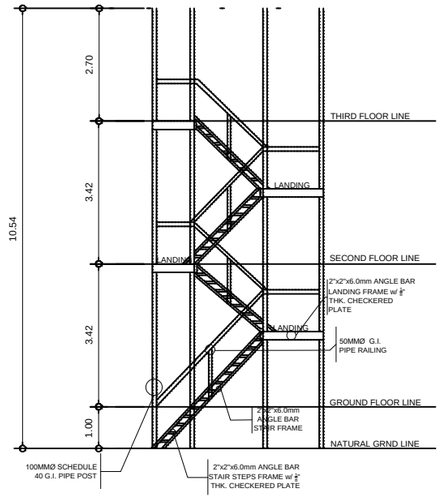
7 S-7 RAMP DETAIL
SCALE 1:30M



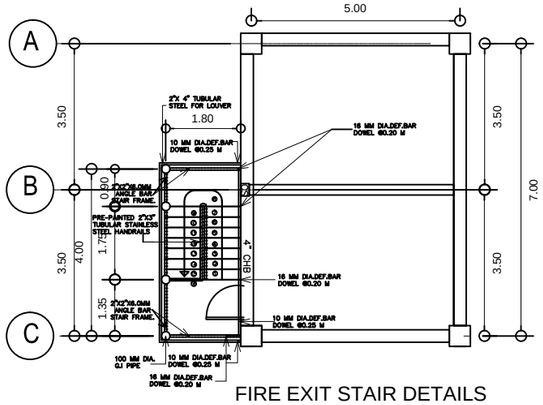
8 S-7 DETAIL OF DC-1
SCALE 1:10M



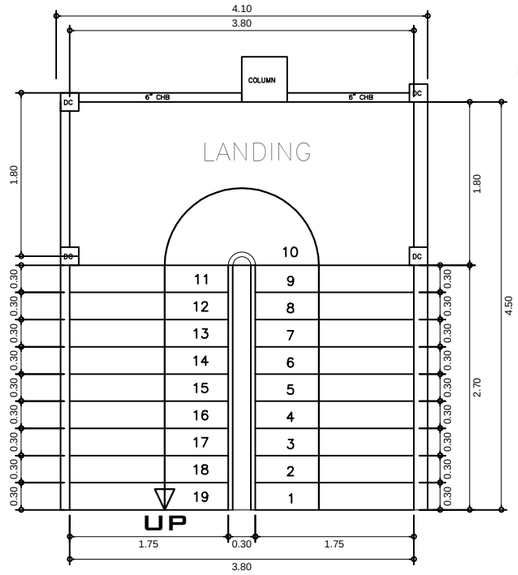
9 S-7 DET. OF STAIR ON GRADE
SCALE 1:25M

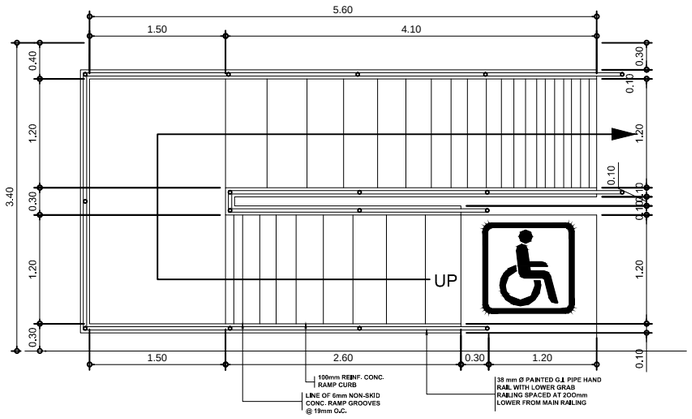


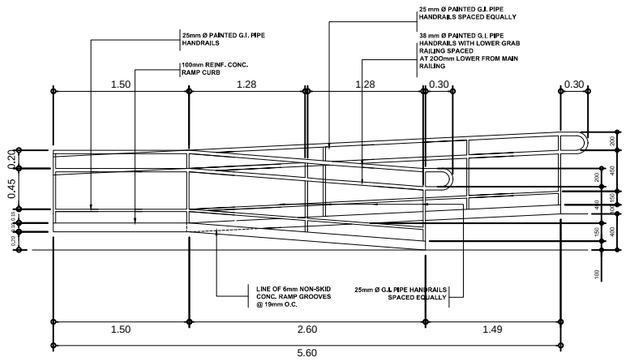
STAIR FOR FIRE EXIT



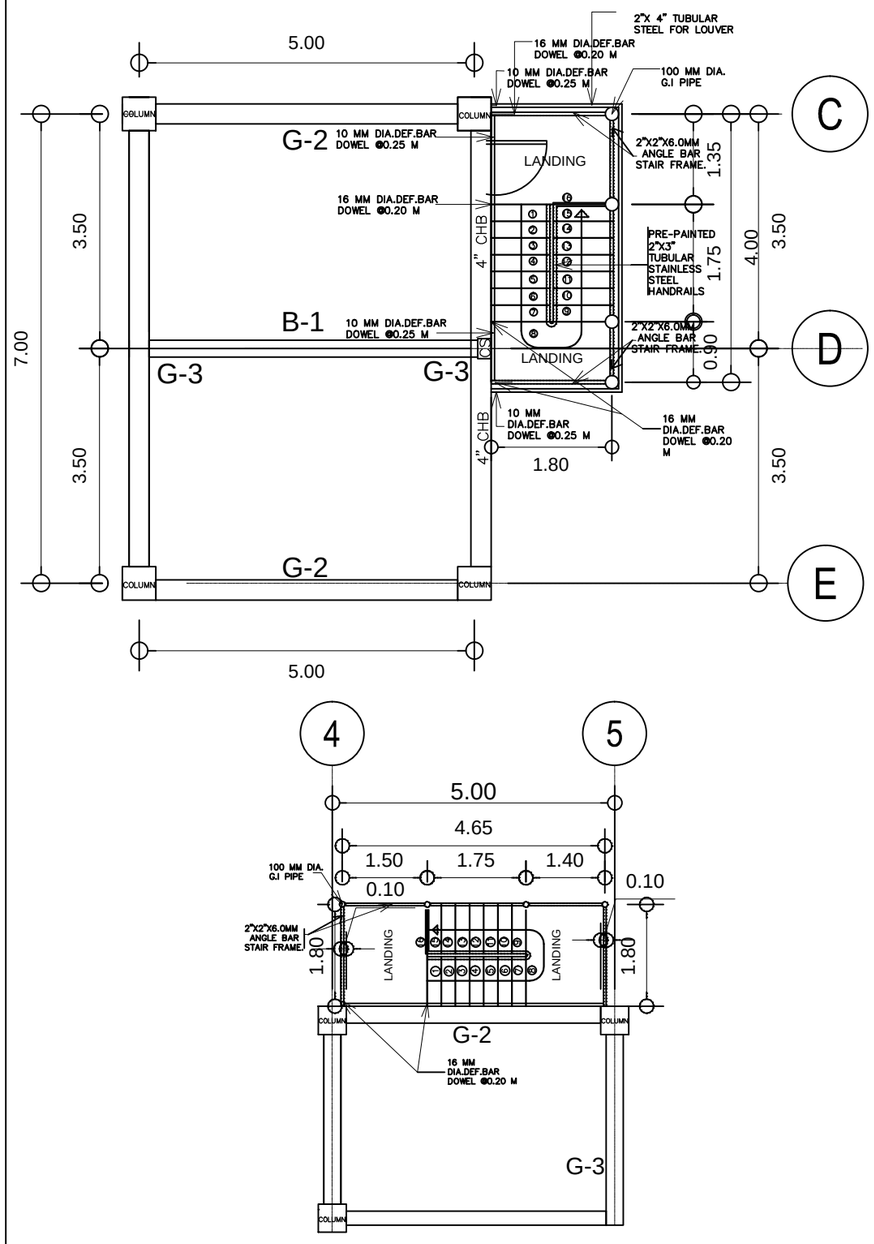
FIRE EXIT STAIR DETAILS





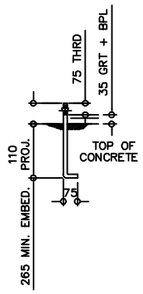


	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF H.R.M BUILDING W/ HOSTEL AT PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MARINTAS,CE COLLEGE ENGINEER	ATTY. DOMINGO T. REDELOSA IV PAGADIAN-CAMPUS ADMIN.	RODRIGO P. MILLARES JR., REE,EnP. PLANNING AND DEVELOPMENT DIRECTOR	MARY JOCELYN V. BATTUNG,Ph.D JHCSC - PRESIDENT	**AS - SHOWN**	S-17 17 20
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



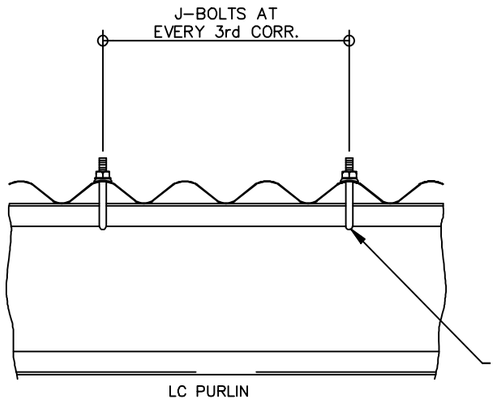
FIRE EXIT STAIR DETAILS

NO1 TO SCALE



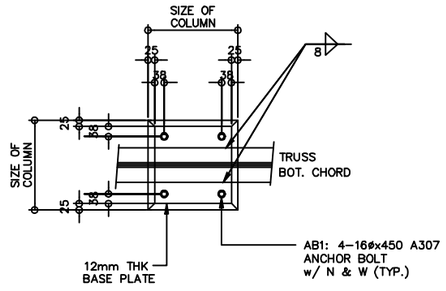
2 S-9 ANCHOR BOLT DETAIL

SCALE 1:15 M.



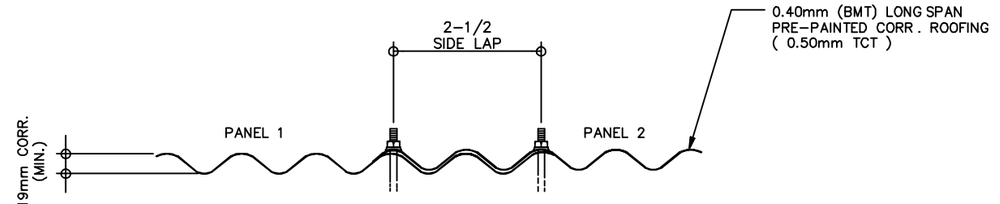
5 S-9 J-BOLT SPACING

NOT TO SCALE



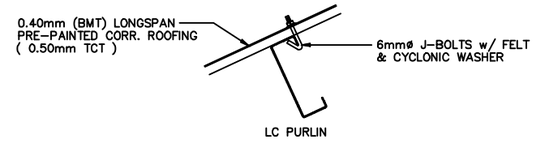
1 S-9 BASE PLATE DETAILS

SCALE 1:10 M.



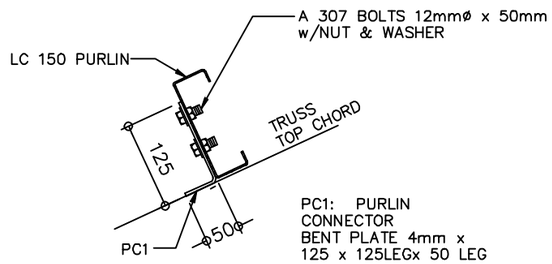
3 S-9 ROOF PANEL SIDE LAP DETAIL

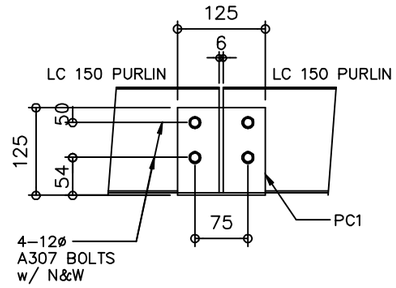
NOT TO SCALE



4 S-9 J-BOLT TO PURLIN CONNECTION DETAIL

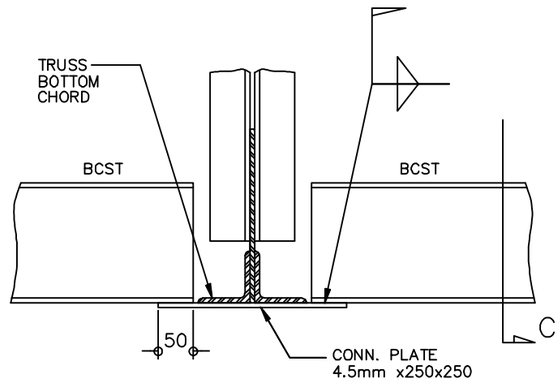
NOT TO SCALF





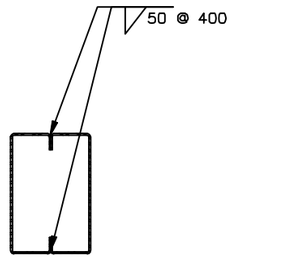
6 S-9 PURLIN CONNECTION DETAIL

SCALE 1:5 M.



7 S-9 SECTION B

SCALE 1:5 M.



8 S-9 SECTION C

SCALE 1:5 M.

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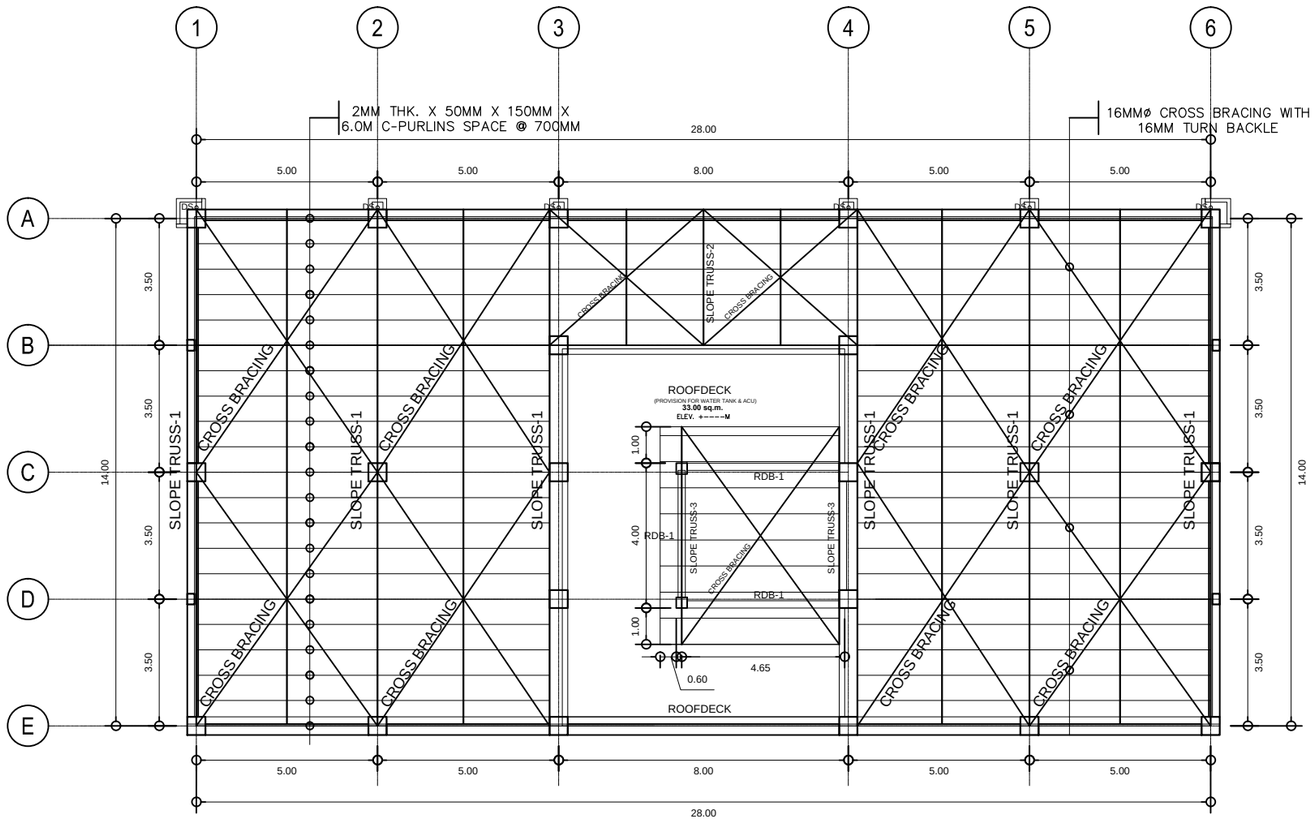
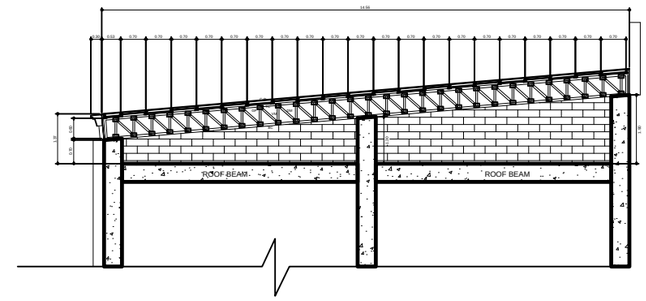
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



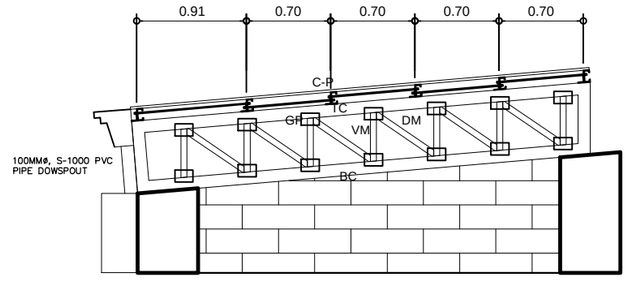
ROOF FRAMING PLAN

SCALE 1:100MTS



SLOPE TRUSS-1

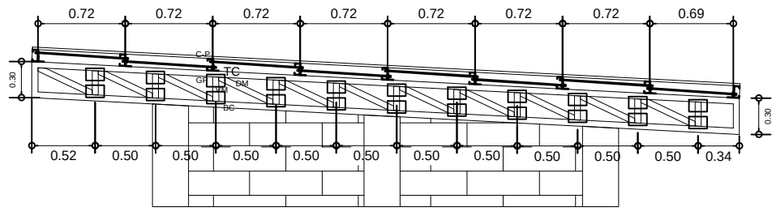
SCALE 1:100MTS



SLOPE TRUSS-2

SCALE 1:30MTS

MARK	TRUSS MEMBER	SPECIFICATIONS
TC	TOP CHORD	2∠S-2 ½" X 2 ½" X ¼" thick
BC	BOTTOM CHORD	2∠S-2 ½" X 2 ½" X ¼" thick
DM	DIAGONAL MEMBER	∠ -2" X 2" X ¼" thick
VM	VERTICAL MEMBER	∠ -2" X 2" X ¼" thick
C-P	C-PURLIN	100mm X 50mm X 15mm X 2.0mm thk.
BP	BASE PLATE	450mm x 450mm x 12mm thk. Steel BP
CB	CROSS BRACING	16mmØ w/ Turnbuckle
SR	SAG ROD	12mmØx0.65m w/ Standard Nuts And Washer
GP	GUSSET PLATE	150mm x 100mm x 6mm thk. Steel BP



SLOPE TRUSS-3

SCALE 1:30MTS

MARK	TRUSS MEMBER	SPECIFICATIONS
TC	TOP CHORD	∠-2 ½" X 2 ½" X ¼" thick
BC	BOTTOM CHORD	∠-2 ½" X 2 ½" X ¼" thick
DM	DIAGONAL MEMBER	∠ -2" X 2" X ¼" thick
VM	VERTICAL MEMBER	∠ -2" X 2" X ¼" thick
C-P	C-PURLIN	100mm X 50mm X 15mm X 2.0mm thk.
BP	BASE PLATE	450mm x 450mm x 12mm thk. Steel BP
CB	CROSS BRACING	16mmØ w/ Turnbuckle
SR	SAG ROD	12mmØx0.65m w/ Standard Nuts And Washer
GP	GUSSET PLATE	150mm x 100mm x 6mm thk. Steel BP

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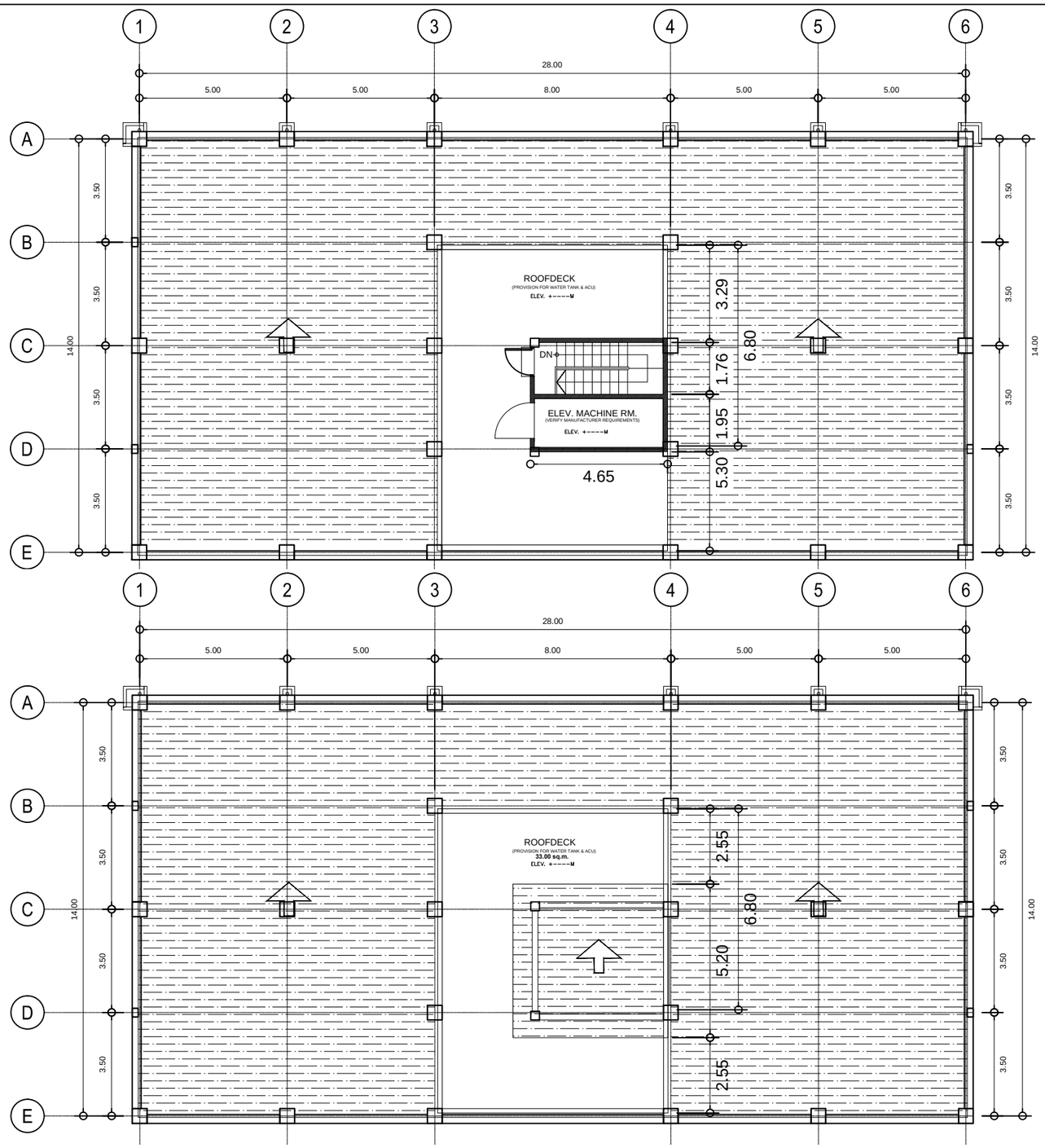
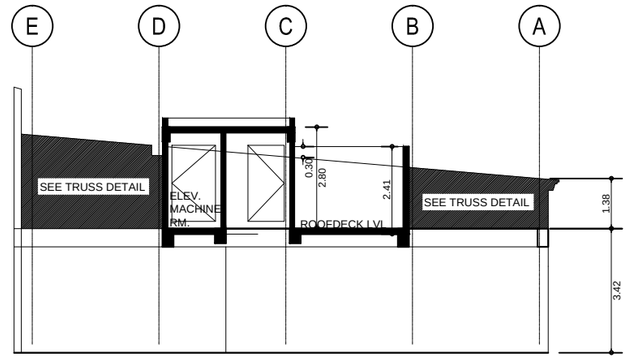
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



ROOF DECK PLAN

SCALE 1:100MTS



ROOF DECK SECTION

SCALE 1:100MTS

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LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		