Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF AKLAN
Población, Numancia, Aklan

October 27, 2026

SUPPLEMENTAL/BID BULLETIN
ADDENDUM NO. 13, s. 2026

To: **Prospective Bidders**

This Addendum No. 13, s. 2026 is issued to modify or amend items in the Bidding Documents. This shall form an integral part of the Bidding Documents.

BASIC EDUCATION FACILITIES FUND REPAIR REHABILITATION CY 2026
(LOT 4 - MAMBUQUIAO INTEGRATED SCHOOL)
Project No.: **DepEd-Aklan-PB-175-2026**

I. Section VII. Drawings

See Annex "A"

II. Section VIII. Bill of Quantities

See Annex "B"

For guidance and information of all concerned.

Dr. LUZ U. BANSON, CESO VI
BAC Chairperson

***A Supplemental/Bid Bulletin is a notice issued by the Procuring Entity to Eligible Bidders with respect to any clarifications or modifications in the Bidding Documents, including those affecting the technical specifications, procurement schedule, and other similar matters. It is prepared by the TWG, approved by the BAC, and publicized by the BAC Secretariat. It should be made available to all Prospective Bidders who have properly secured or purchased the Bidding Documents, not later than seven (7) calendar days before the deadline for the submission and receipt of bids.

Annex "A"



1 / A–1 PERSPECTIVE
N T S

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OFFICE OF THE CITY/MUNICIPAL ENGINEER/BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

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DIAGRAM SINGLE LINE DIAGRAM

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ARCHITECTURAL

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ELECTRICAL

MECHANICAL

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DEPARTMENT OF EDUCATION
EDUCATION FACILITIES DIVISION
MERALCO AVENUE, PASIG CITY

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PROJECT TITLE : ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING

DATE PREPARED :

DATE REVISED : JANUARY 2021_REV 05

PROJECT CODE: DSD - 1S1C - 14 - T2

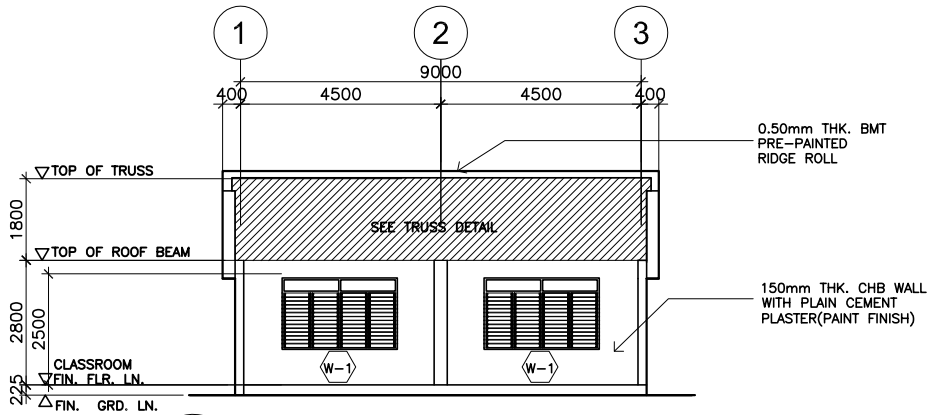
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SHEET NO: A-1 / 5

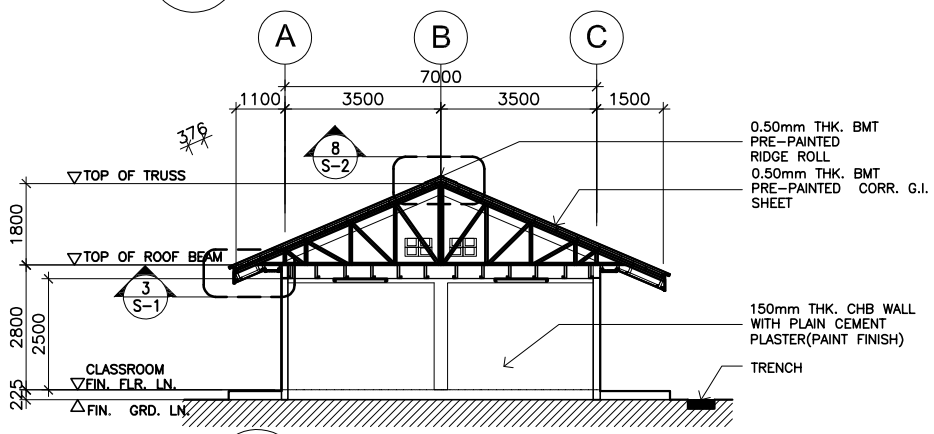
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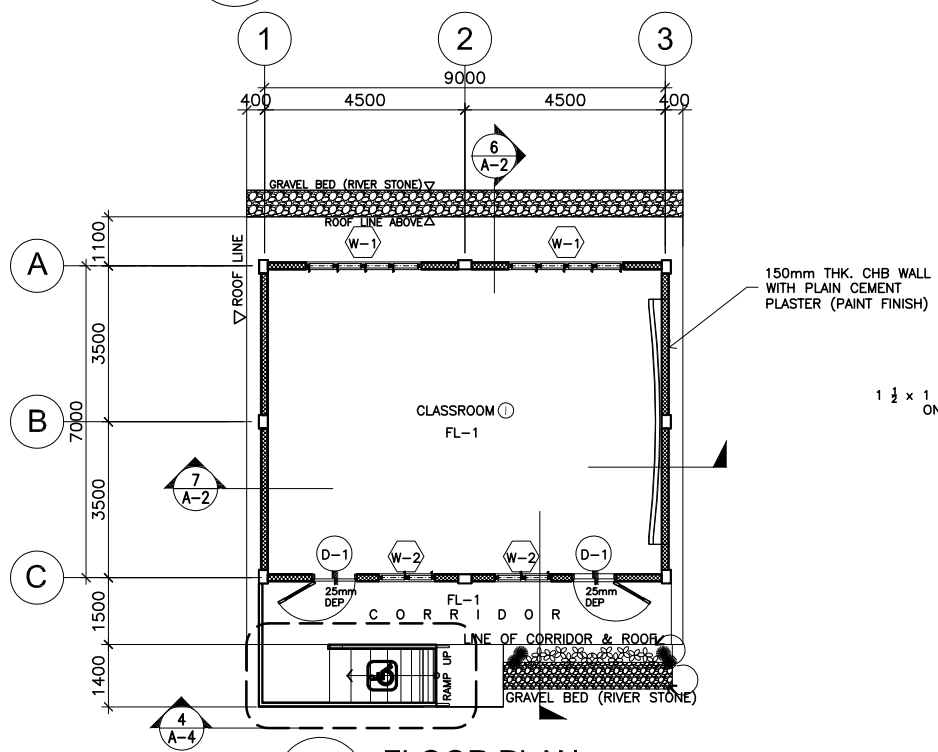
7 / A-2 LONGITUDINAL SECTION

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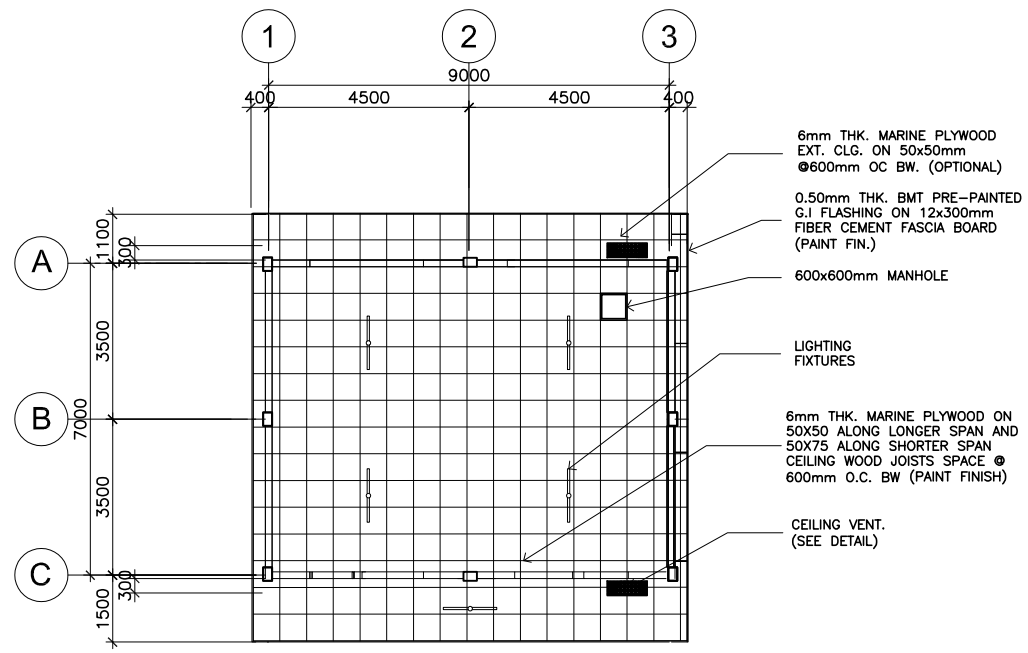
6 / A-2 CROSS SECTION

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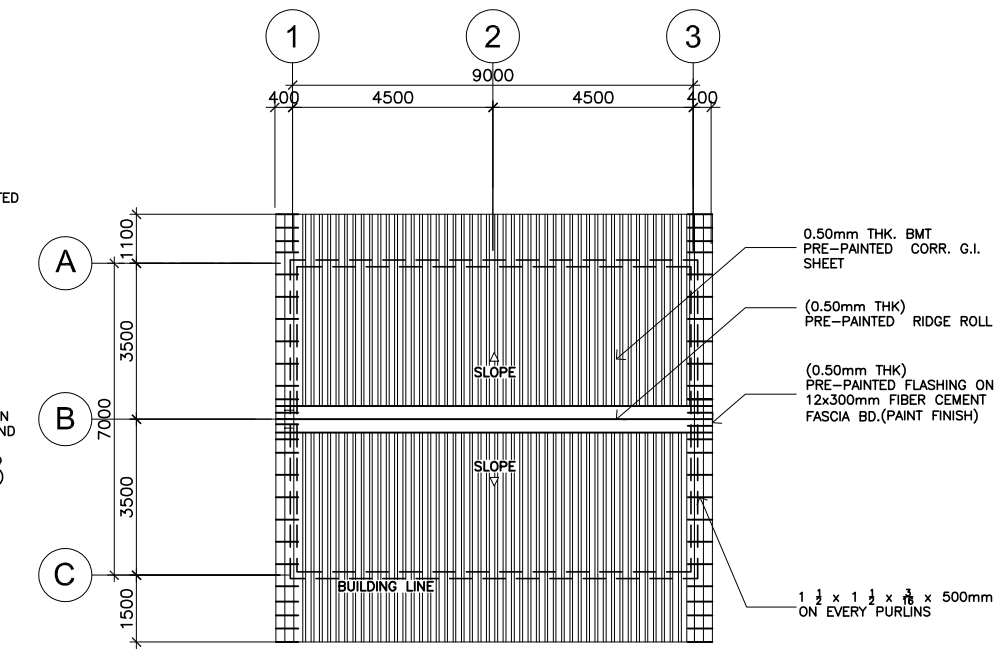
1 / A-2 FLOOR PLAN

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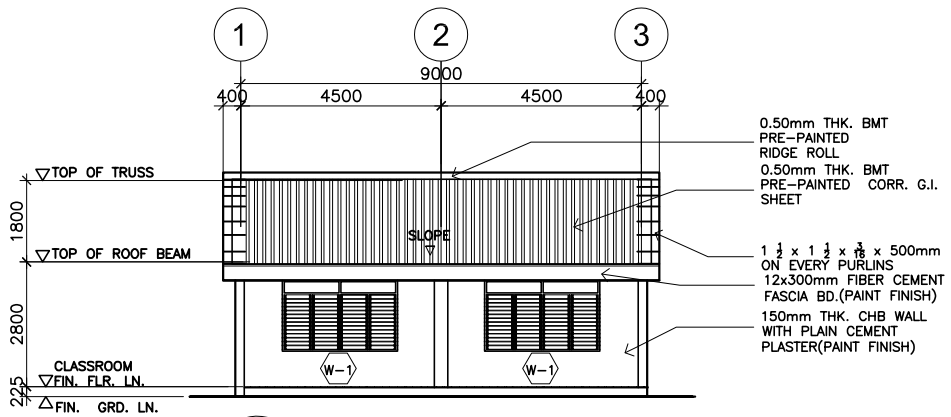
8 / A-2 REFLECTED CEILING PLAN

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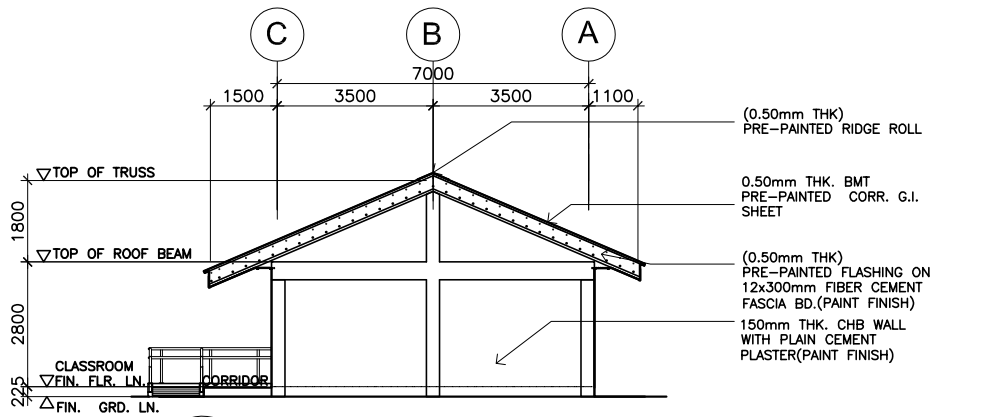
9 / A-2 ROOF PLAN

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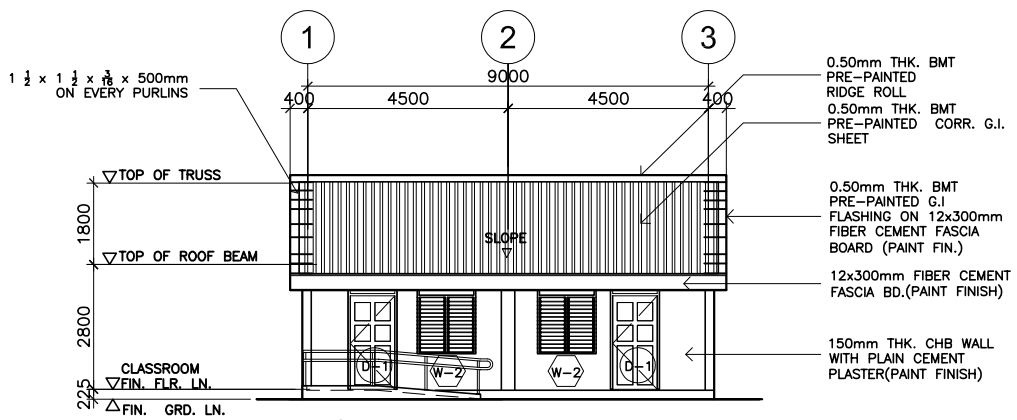
4 / A-2 REAR ELEVATION

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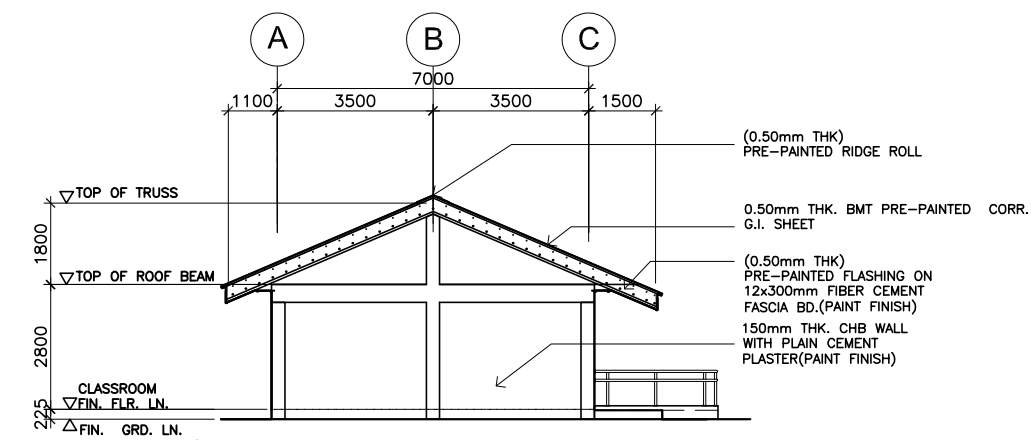
5 / A-2 RIGHT SIDE ELEVATION

SCALE 1:100M



2 / A-2 FRONT ELEVATION

SCALE 1:100M



3 / A-2 LEFT SIDE ELEVATION

SCALE 1:100M

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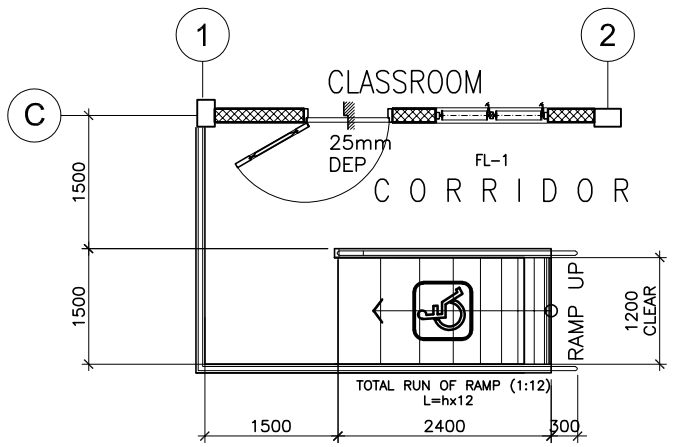
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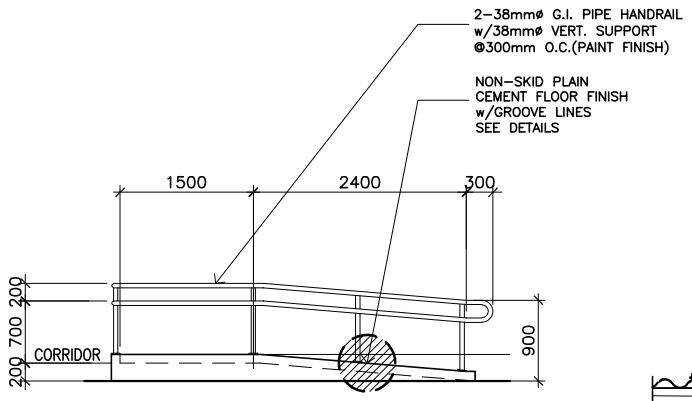
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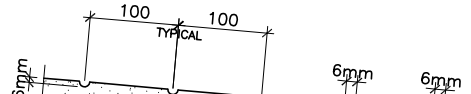
IF THERE WILL BE CHANGE IN THE HEIGTH (h) OF THE FINISH FLOOR LINE (FFL) OF THE BUILDING , THE LENGTH OF THE RAMP SHALL BE COMPUTED AS (L=h X 12)



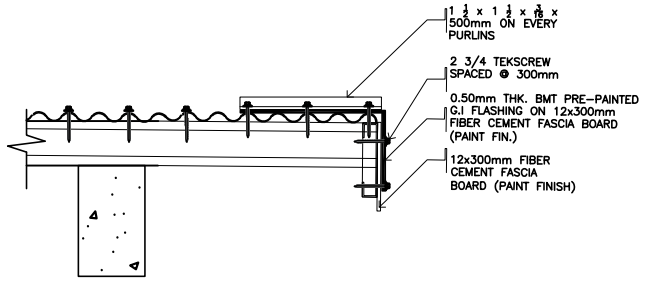
4 / A-4 RAMP DETAIL
SCALE 1:100M



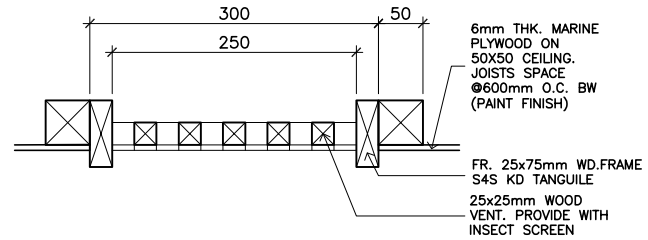
5 / A-4 RAMP SECTION
SCALE 1:100M



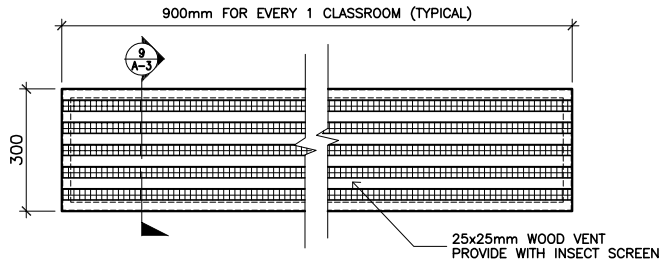
6 / A-3 SPOT DETAIL
SCALE 1:100M



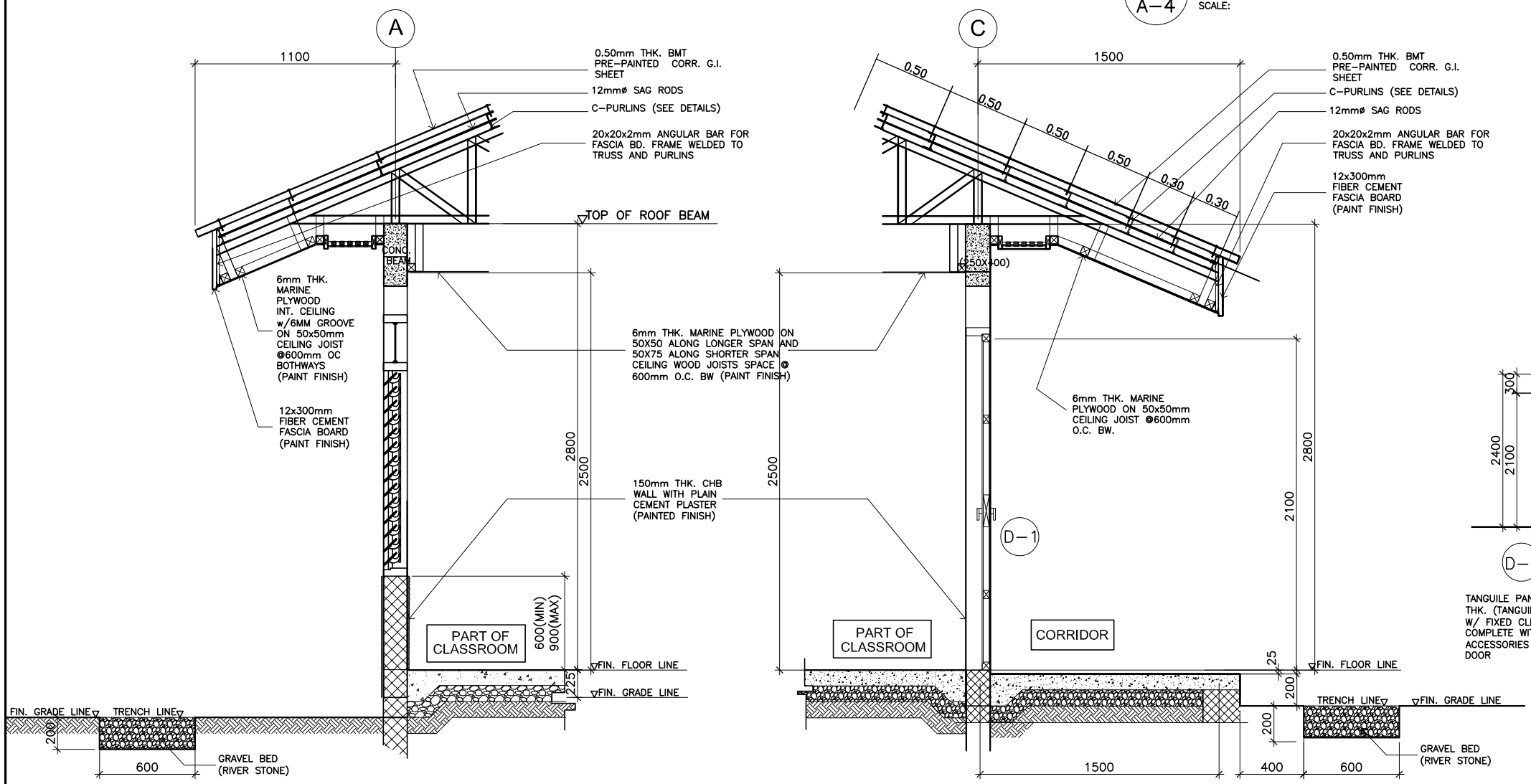
7 / A-4 END FLASHING CONNECTION DETAIL
SCALE: NTS



9 / A-3 TYP. CLG. VENT SECTION DETAIL
SCALE 1:10M

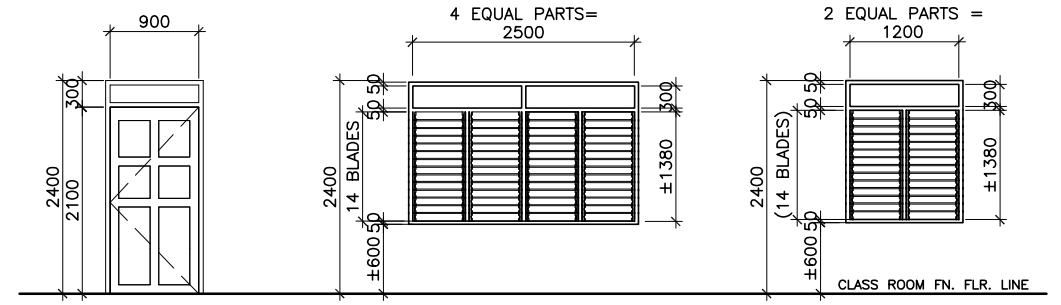


8 / A-3 TYP. CLG. VENT PLAN DETAIL
SCALE 1:10M



1 / A-3 BAY & TRENCH DRAIN SECTION DETAIL @ GRID A
SCALE:

2 / A-3 BAY & TRENCH DRAIN SECTION DETAIL @ GRID C



D-1 2-SETS

TANGUILE PANEL DOOR ON 50X150MM THK. (TANGUILE OR EQUIVALENT) JAMB W/ FIXED CLEAR GLASS TRANSOM COMPLETE WITH HARDWARES AND ACCESSORIES W/ LEVER TYPE LOCKSET DOOR

W-1 2-SETS

JALOUSIE WINDOW W/ 6mmCLEAR GLASS BLADES ON 50mmX150mm KD WOOD & TERMITE-TREATED (TANGUILE OR EQUIVALENT) OR CONCRETE JAMB & STEEL GRILLES (SEE DETAIL)

W-2 2-SETS

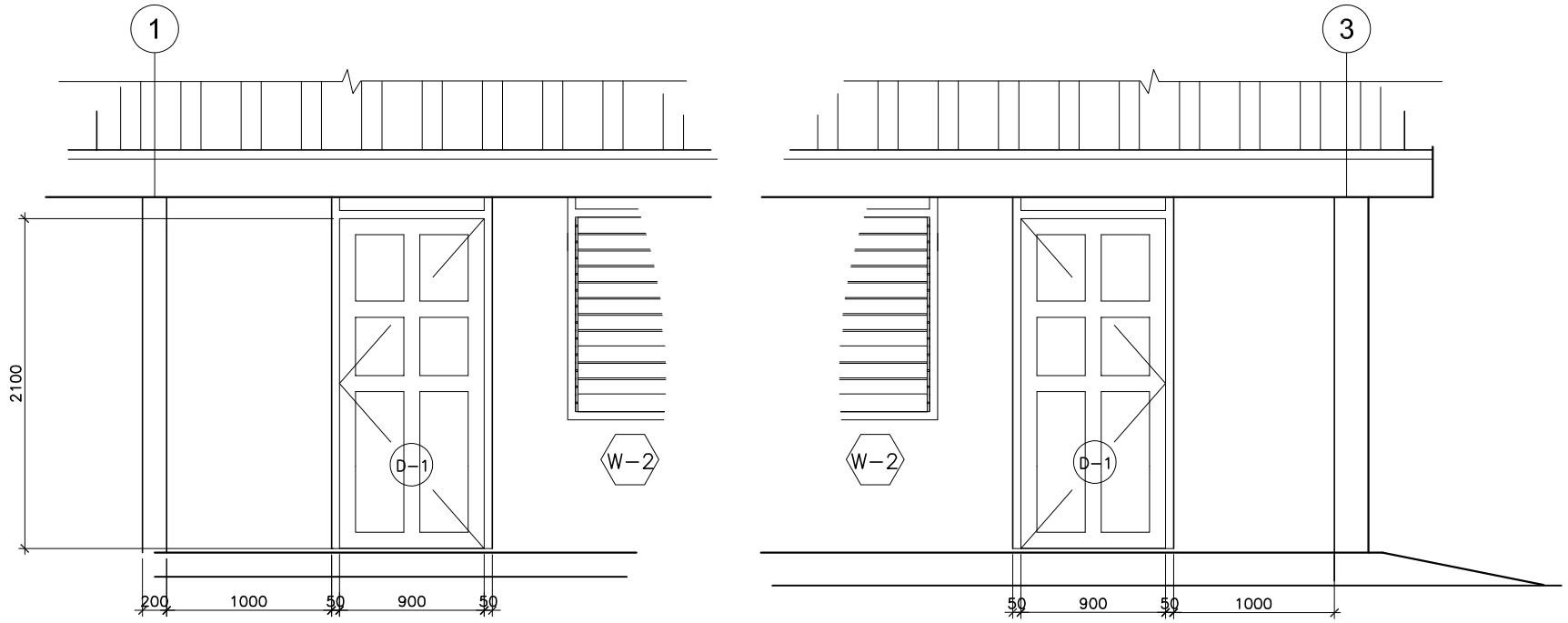
JALOUSIE WINDOW W/ 6mmCLEAR GLASS BLADES ON 50mmX150mm KD WOOD & TERMITE-TREATED (TANGUILE OR EQUIVALENT) OR CONCRETE JAMB & STEEL GRILLES (SEE DETAIL)

3 / A-4 SCHEDULE OF DOORS & WINDOWS
SCALE 1:50M

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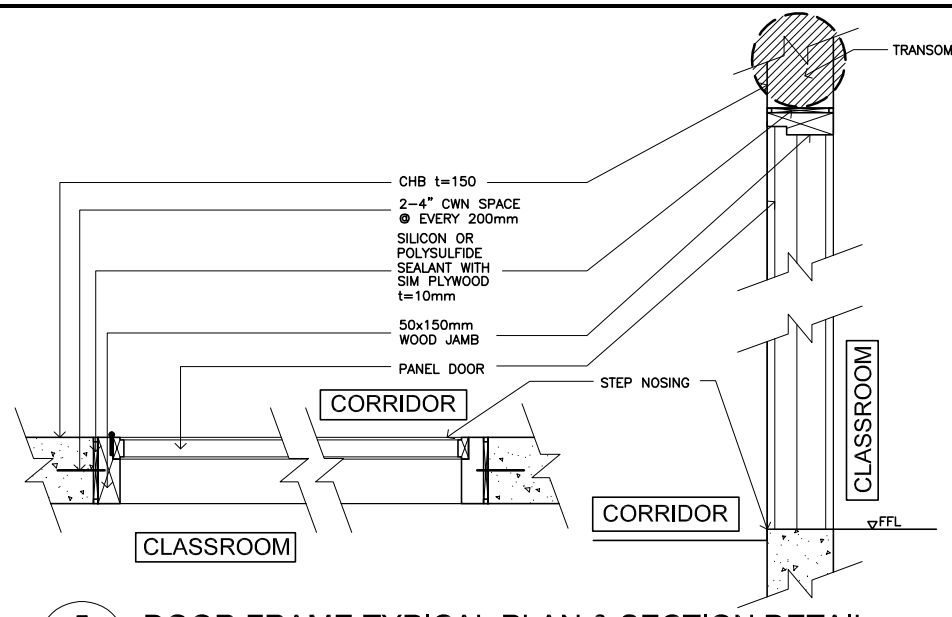
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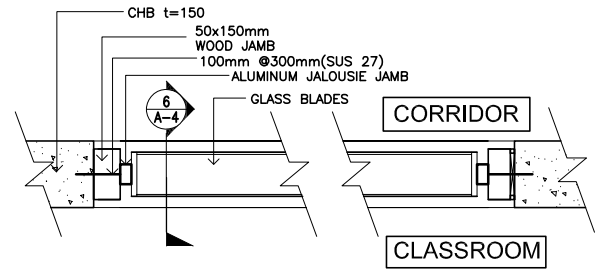
2 A-4 SPOT DETAIL 1 SECTION

SCALE 1:40M



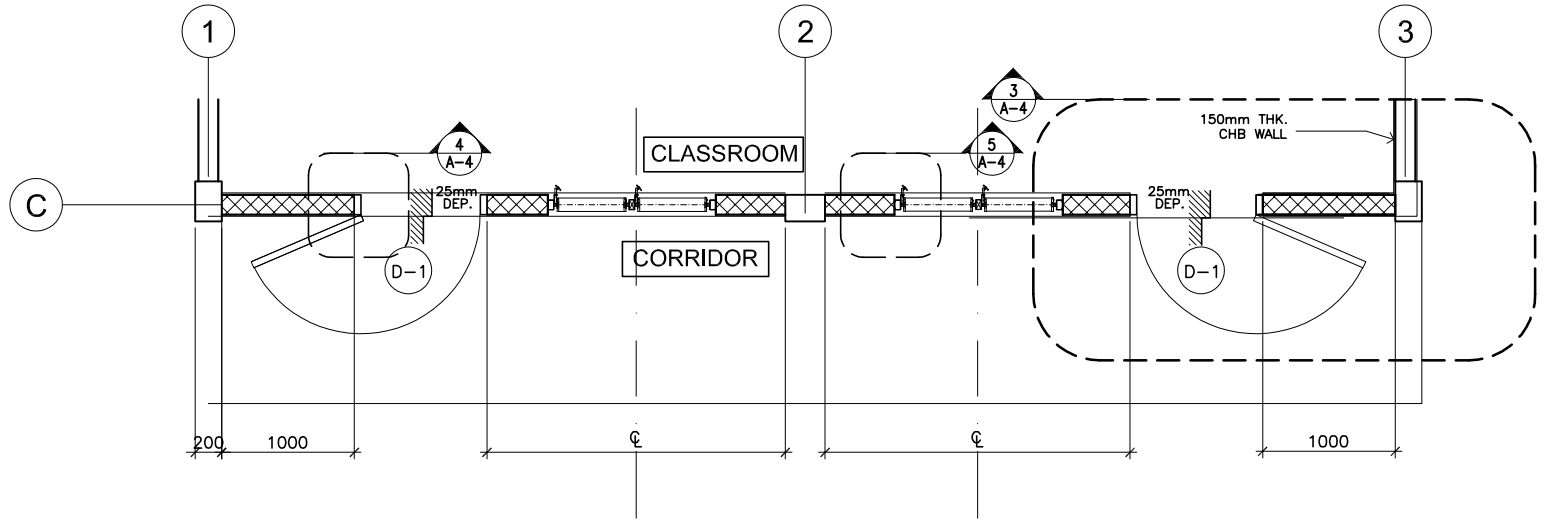
3 A-4 DOOR FRAME TYPICAL PLAN & SECTION DETAIL

SCALE 1:5M



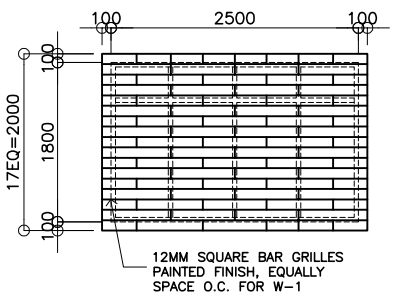
4 A-4 GLASS JALOUSIE TYPICAL DETAIL PLANS

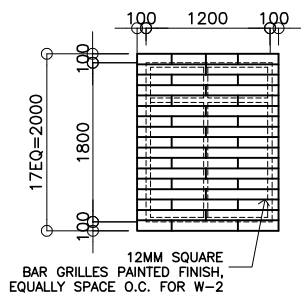
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1 A-4 SPOT DETAIL PLAN 1 & 2

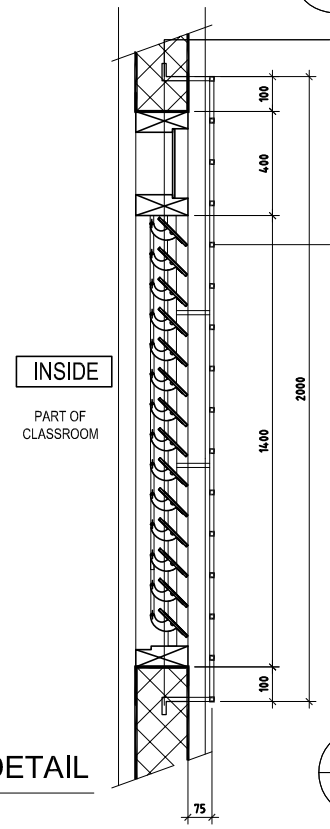
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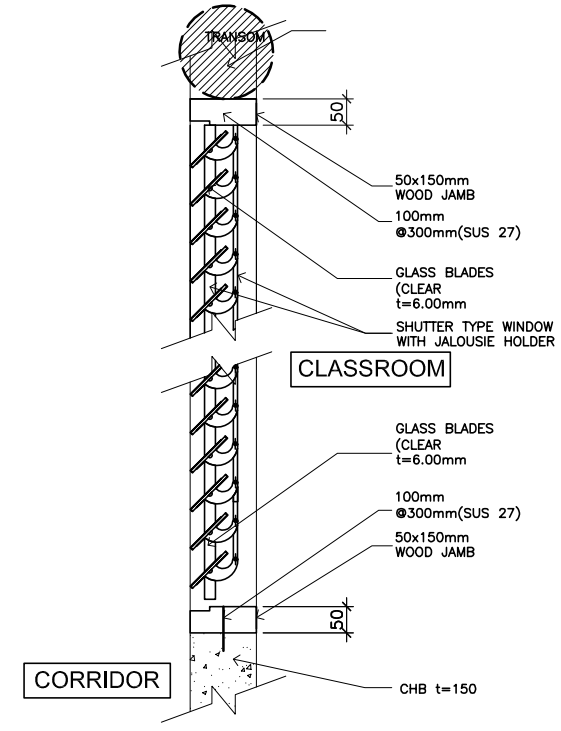




5 A-4 GRILLES DETAIL

SCALE : NTS





6 A-4 GLASS JALOUSIE TYPICAL DETAIL SECTIONS

SCALE 1:5M

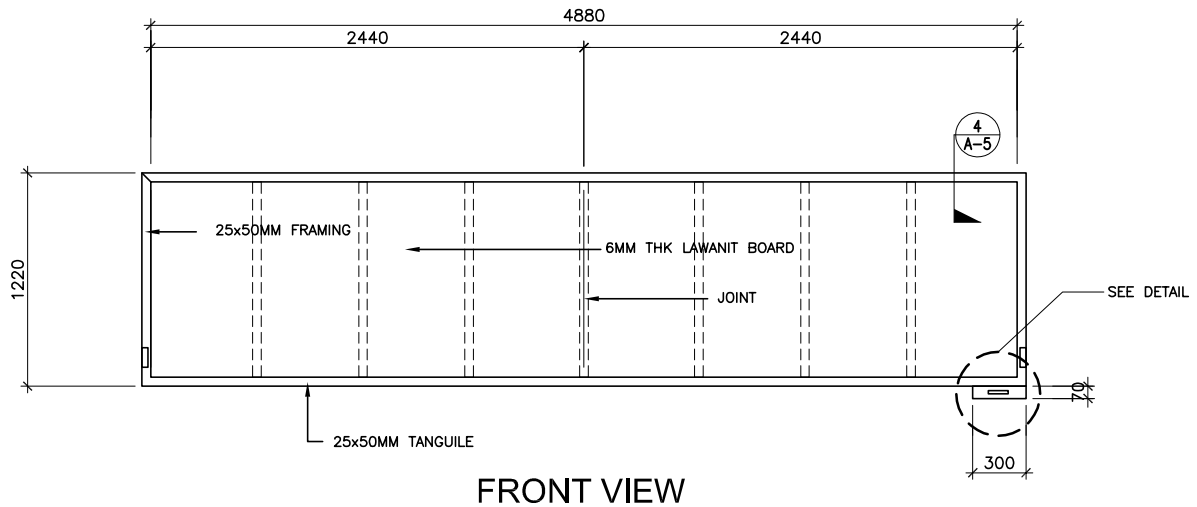
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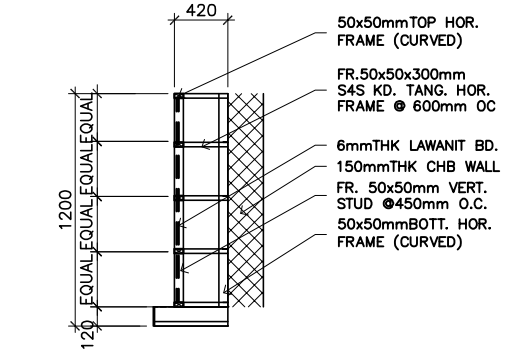
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ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING	DSD - 1S1C - 14 - T2	DEPARTMENT OF EDUCATION DepED	A-4 5
DATE PREPARED :	DATE REVISED : JANUARY 2021_REV 05	SHEET CONTENTS : SPOT DETAIL PLAN 1 & 2 GLASS JALOUSIE TYPICAL DETAIL PLANS GLASS JALOUSIE TYPICAL DETAIL SECTIONS DOOR FRAME TYPICAL PLAN & SECTION DETAIL	

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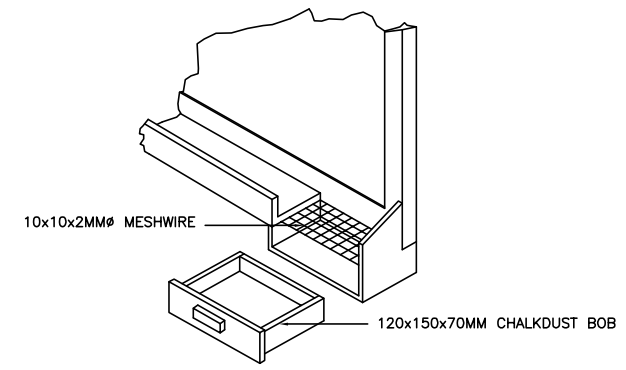


FRONT VIEW



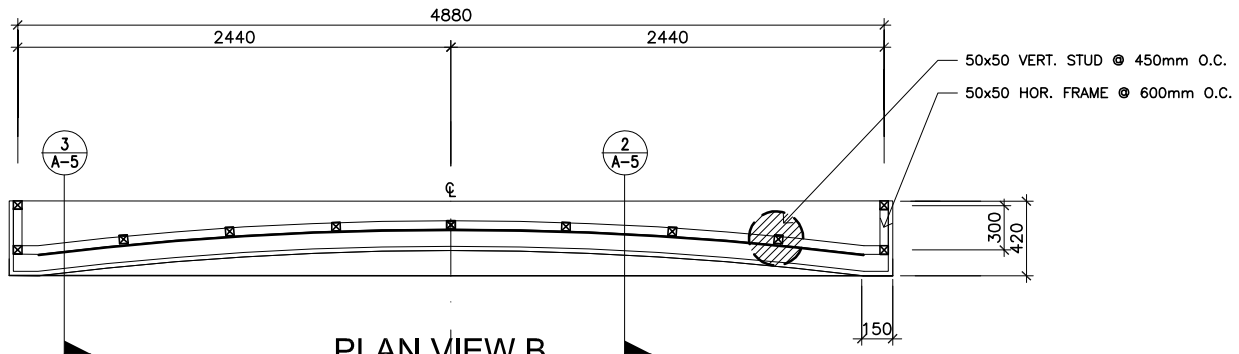
3 / A-5 SECTION

SCALE : 1:50M

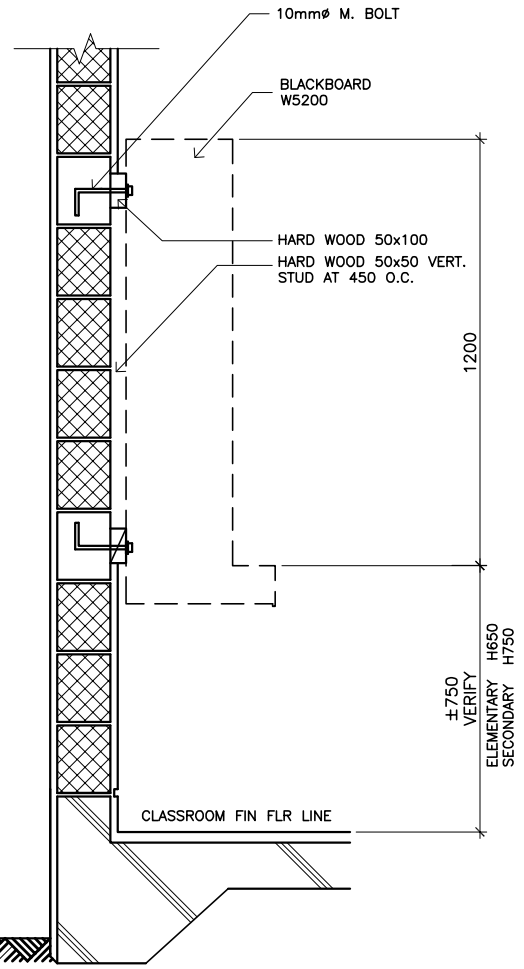


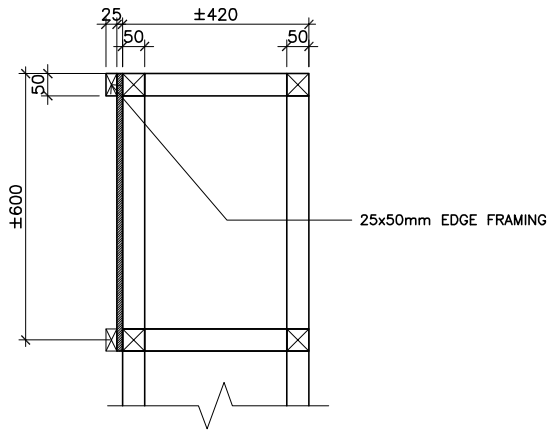
4 / A-5 CHALK DUST BOX DETAIL

SCALE : 1:50M



PLAN VIEW B
SECTION

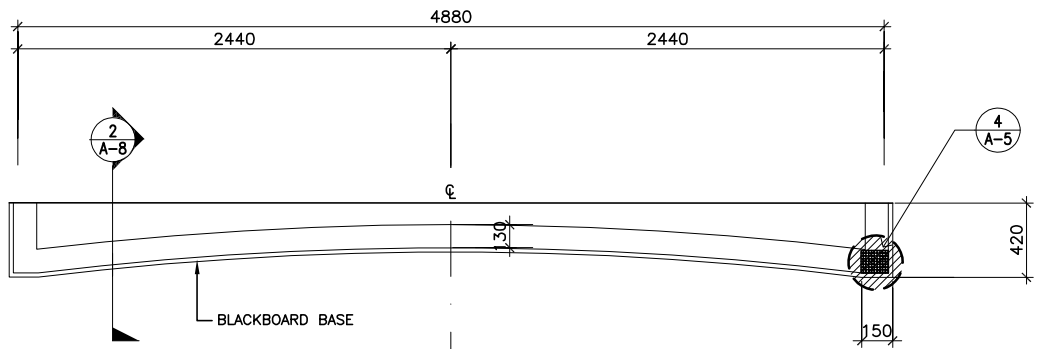




SPOT DETAIL SECTION
EDGE FRAMING

5 / A-5

SCALE : 1:10M



PLAN VIEW A

1 / A-5 BLACKBOARD DETAIL

SCALE : 1:50M

2 / A-5 CONNECTION SECTION DETAIL

SCALE : 1:50M

SPECIFICATION:

MATERIALS: –25x300mm SOLID TANGUILE OR EQUIVALENT WOOD FRAMES.
–6mm THK LAWANIT BOARD

PROVIDE: –70x120x150mm CHALKDUST BOX
–2øx10x10mm MESHWIRE

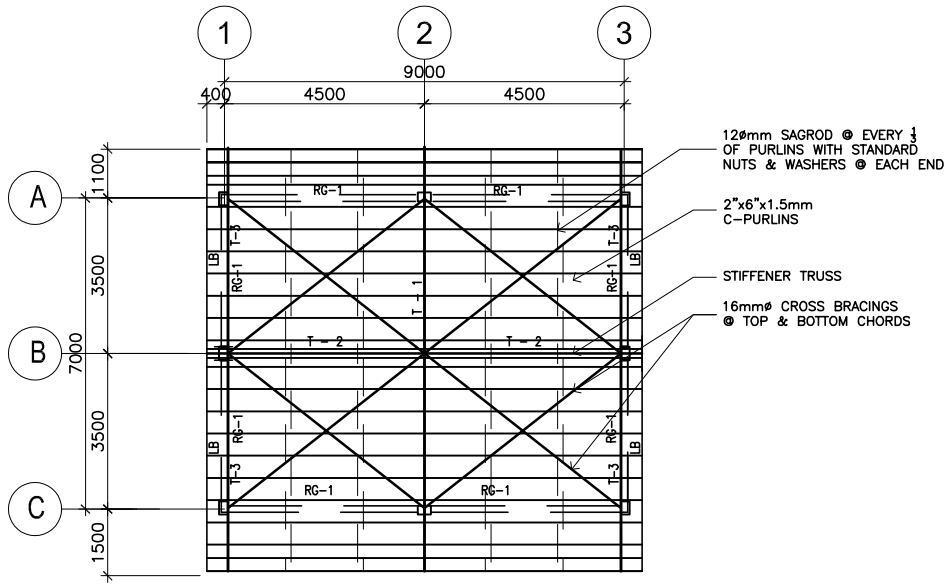
FINISH: –FRAMING AND CHALKBOX PAINT WITH QUICK DRYING ENAMEL PAINT (BROWN)
–BOARD PAINT WITH BLACKBOARD PAINT (GREEN) OR BLACKBOARD SLATE

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1 / S-1 ROOF FRAMING PLAN
SCALE 1:100M

B E A M S C H E D U L E

FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS						STIRRUPS ø10mm (UNLESS NOTED OTHERWISE)
				REBAR (mm ø)	LEFT		MID SPAN		RIGHT	
		b	h		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM
	RG-1	250	400	ø16mm	6	3	3	6	6	3	ø10 SPACED AT 1@50, 8@100, REST@125 UP TO CL
	LB	250	300	ø16mm	3	3	3	3	3	3	
	TB-1	250	400	ø16mm	6	3	3	6	6	3	

S C H E D U L E O F F O O T I N G S

FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	THICKNESS (t)	BAR X	BAR Y	
F-1	1200	1200	1200	250	ø16mm @150mm	ø16mm @150mm	SQUARE FOOTING

DESIGN CRITERIA :

A. CONCRETE

fc' = 27.60 Mpa (4,000 Psi), minimum compressive strength of concrete a 28 days unless otherwise specified.

B. REBAR

fy = 275.8 Mpa (40,000 Psi), for ø16 and below
414 Mpa (60,000 Psi), for ø20 and above

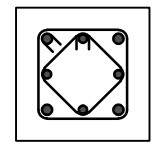
C. STRUCTURAL STEEL

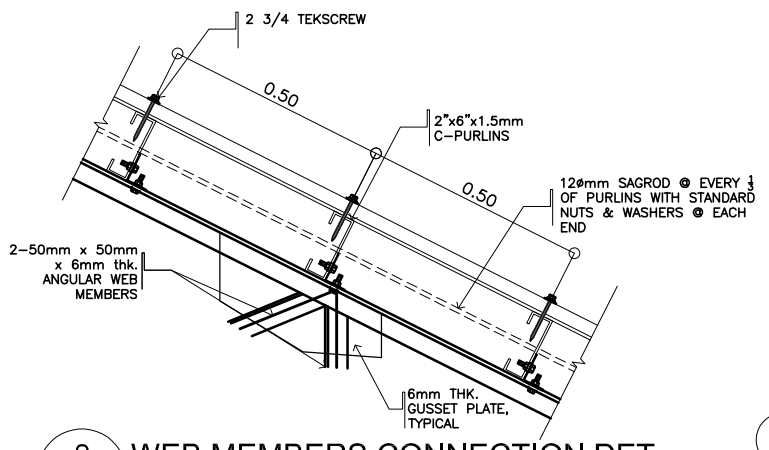
Fy = 248 Mpa (36 Ksi), specified minimum yield strength unless otherwise specified.

D. FOUNDATION

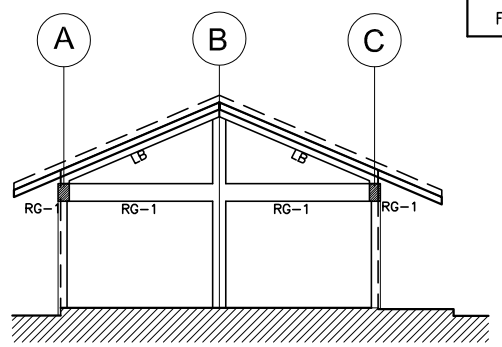
SBP = 95.706 Kpa (2,000 Psf), was used in the design for all footings. No footing shall rest on fill.

C O L U M N S C H E D U L E

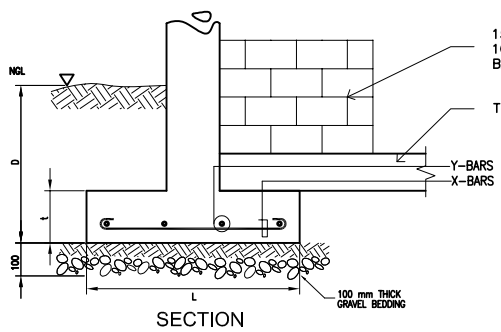
LEVEL		C-1
FOUNDATION TO ROOF		
	SIZE	300X300
	VERTICAL BARS	4-16mmø @ CORNER / 4-12mmø @MID
	TIES	10mm @ 150 - 2 SETS
	CONFINEMENT REINFORCEMENT	10mm @ 100 - 2 SETS
	JOINT REINFORCEMENT	10mm @ 100 - 2 SETS



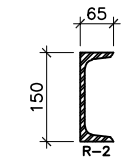
2 / S-1 WEB MEMBERS CONNECTION DET.
SCALE: NTS



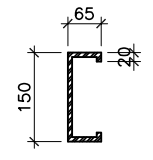
9 / S-1 ELEV @ ENDWALL
SCALE: 1:100M



SECTION



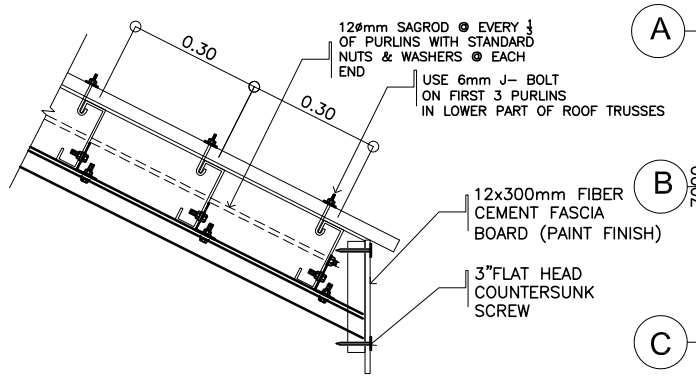
STRUCTURAL STEEL CHANNEL
150x65x6



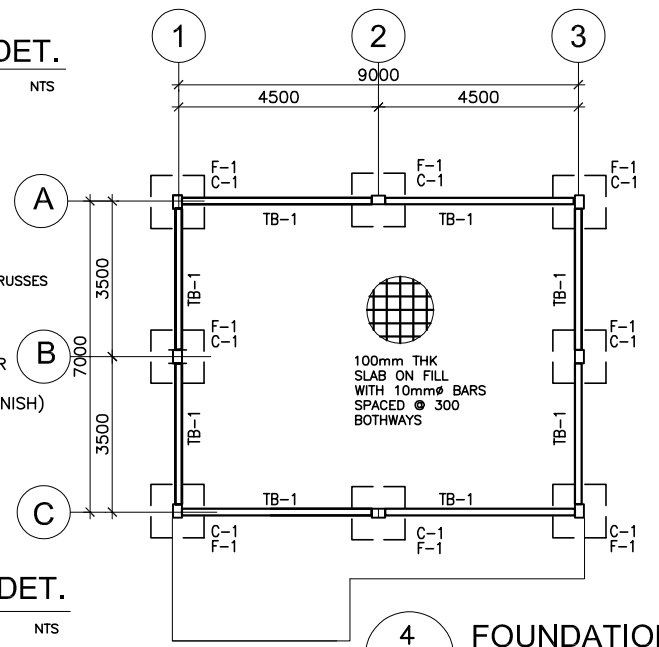
LIGHT GAUGE C-PURLIN
150x65x20x1.5

10 / S-1 DETAIL OF R-2 @ END WALL
SCALE NTS

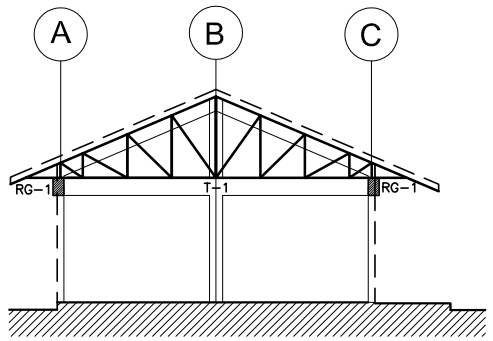
11 / S-1 DETAIL PURLINS
SCALE NTS



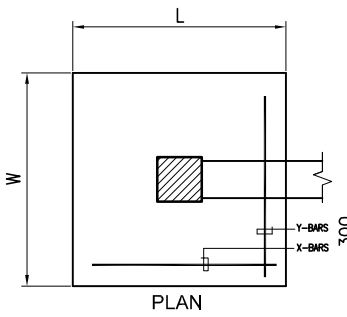
3 / S-1 FASCIA BOARD CONNECTION DET.
SCALE: NTS



4 / S-1 FOUNDATION PLAN
SCALE 1:100M



5 / S-1 ELEV BETWEEN GRIDLINES
SCALE: 1:100M

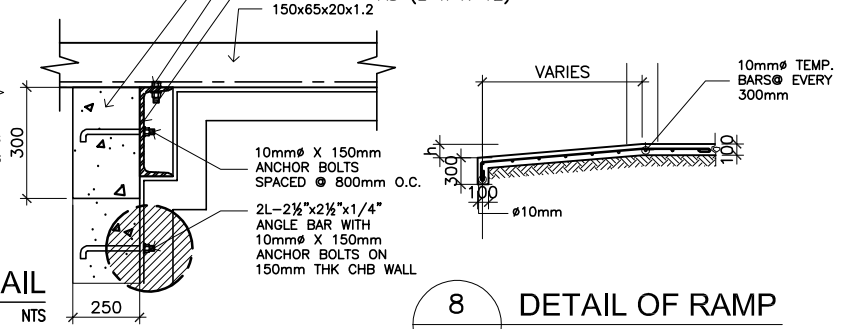


PLAN

6 / S-1 TYP. FOOTING DETAIL
SCALE : NTS

NOTE:

IF THERE WILL BE CHANGE IN THE HEIGTH (h) OF THE FINISH FLOOR LINE (FFL) OF THE BUILDING, THE LENGTH OF THE RAMP SHALL BE COMPUTED AS (L=h X 12)



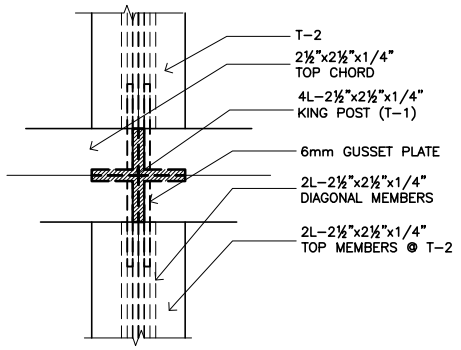
7 / S-1 END WALL R-2 SECTION DETAIL
SCALE NTS

8 / S-1 DETAIL OF RAMP
SCALE 1:50M

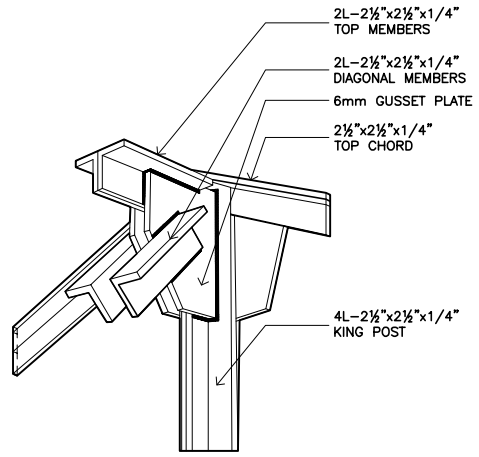
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EDUCATION FACILITIES DIVISION
MERALCO AVENUE, PASIG CITY

DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	PROJECT TITLE :	PROJECT CODE:	OWNER :	SHEET NO:
JUNELSON P. CULLADO CADD OPERATOR EFD-DepEd	WILFREDO D. ALARCON STRUCTURAL ENGINEER EFD-DepEd	LUIS G. PURISIMA, JR. ASST. CHIEF, EFD-AS DepEd	ANNABELLE R. PANGAN CHIEF, EFD-AS DepEd	ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING DATE PREPARED : / DATE REVISED : JANUARY 2021_REV 05	DSD - 1S1C - 14 - T2	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : FOUNDATION PLAN, ROOF FRAMING PLAN & SCHEDULE	S-1 2

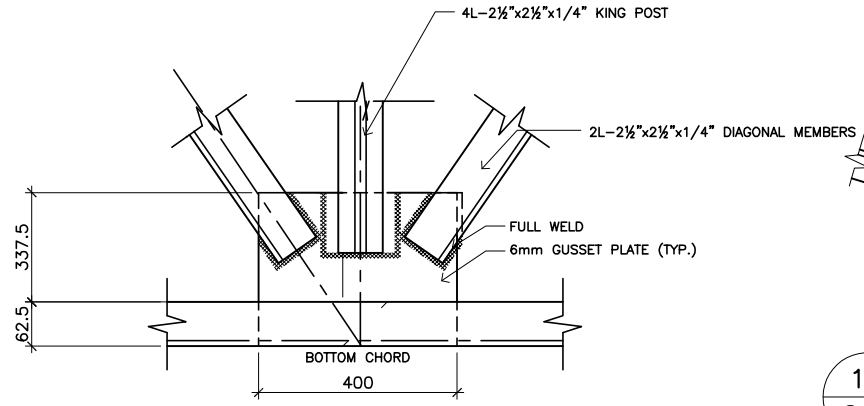
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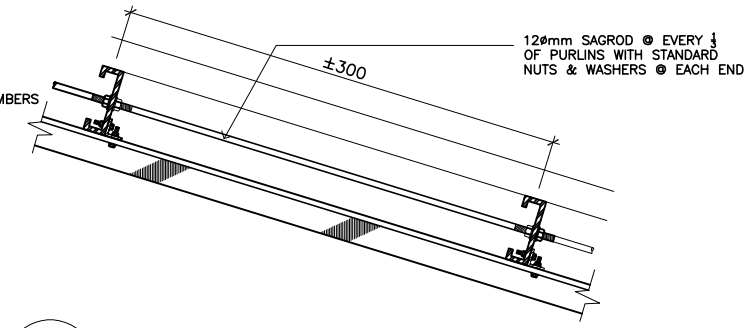
9 S-2 TOP VIEW DETAIL CONNECTION OF T-2 TO T-1
SCALE 1:5M



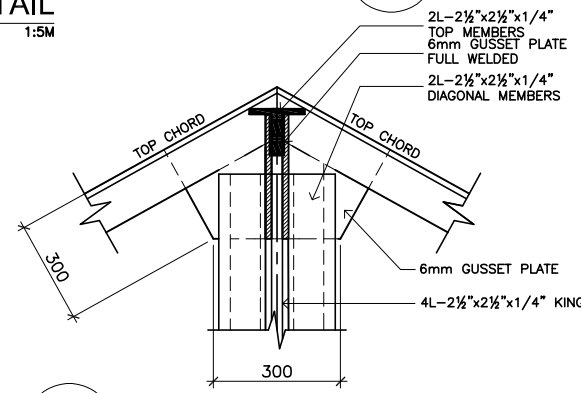
10 S-2 ISOMETRIC @ T-1 & T-2 CONNECTION DETAIL
SCALE 1:5M



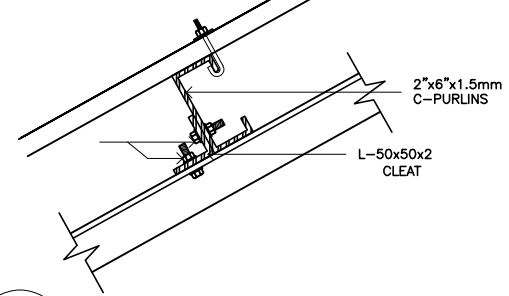
11 S-2 CONNECTION DETAIL
SCALE 1:5M



12 S-2 SAG ROD CONNECTION DETAIL
SCALE 1:10M



14 S-2 CONNECTION DETAIL
SCALE 1:5M



13 S-2 PURLIN CONNECTION DETAIL
SCALE 1:5M

NOTES ON CONCRETE WORKS:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

2. MINIMUM COMPRESSIVE STRENGTH (f'c) OF CONCRETE AT 28 DAYS SHALL BE 28MPa

3.MINIMUM YIELD STRENGTH (fy) OF REINFORCING BARS SHALL BE:

-414Mpa FOR BARS 20mm AND BIGGER
-275 Mpa FOR BARS 16mm AND SMALLER

4. REINFORCING BARS SHALL COMPLY WITH ASTM A706M

NOTES ON STEEL WORKS:

1. ALL STEEL ELEMENTS (PLATES AND ANGLES) SHALL COMPLY WITH ASTM A36

2. WELDING ELECTRODES SHALL BE E70XX AND SHALL COMPLY WITH AWS CODE

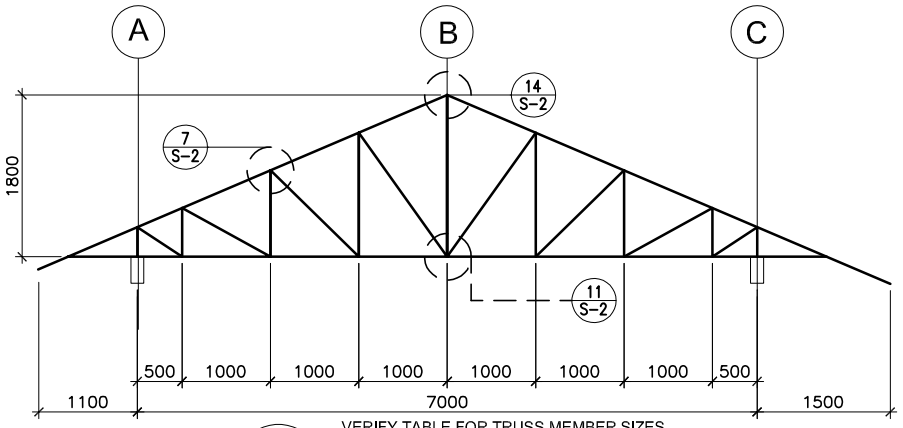
3. WELDS AND WELDING PROCEDURE SHALL COMPLY WITH THE REQUIREMENTS OF AWS CODE.

4. ANCHOR BOLTS SHALL COMPLY WITH ASTM A325

5. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.

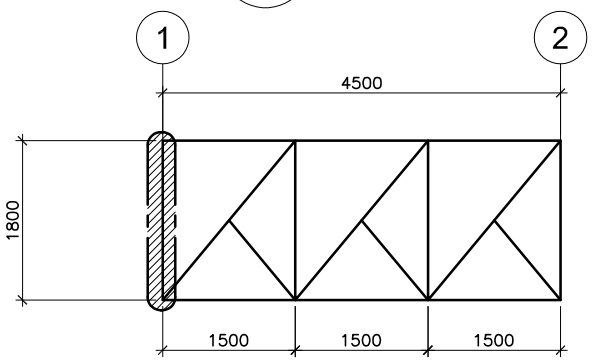
T-1 SCHEDULE OF TRUSS MEMBERS			
DESCRIPTION	QTY	SIZE T-1	SIZE T-2
TOP CHORD	2L	2½"x2½"x1/4"	2½"x2½"x1/4"
BOTTOM CHORD	2L	2½"x2½"x1/4"	2½"x2½"x1/4"
VERTICAL MEMBERS	2L	2½"x2½"x1/4"	2½"x2½"x1/4"
DIAGONAL MEMBERS	2L	2½"x2½"x1/4"	2½"x2½"x1/4"
KING POSTS	4L	2½"x2½"x1/4"	

T-3 SCHEDULE OF TRUSS MEMBERS			
DESCRIPTION	QTY	SIZE T-1	SIZE T-2
TOP CHORD	1L	2½"x2½"x1/4"	2½"x2½"x1/4"
BOTTOM CHORD	1L	2½"x2½"x1/4"	2½"x2½"x1/4"
VERTICAL MEMBERS	1L	2½"x2½"x1/4"	2½"x2½"x1/4"
DIAGONAL MEMBERS	1L	2½"x2½"x1/4"	2½"x2½"x1/4"
KING POSTS	1L	2½"x2½"x1/4"	

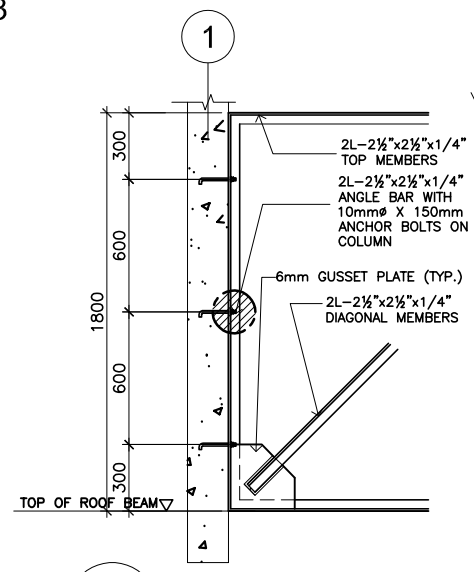


VERIFY TABLE FOR TRUSS MEMBER SIZES

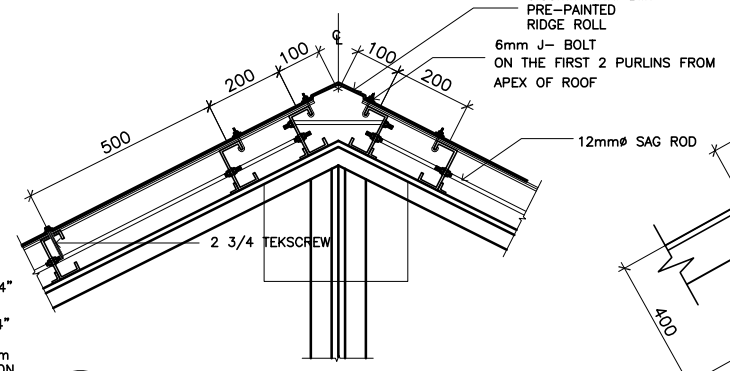
1 S-2 DETAIL OF T-1/T-3
SCALE 1:25M



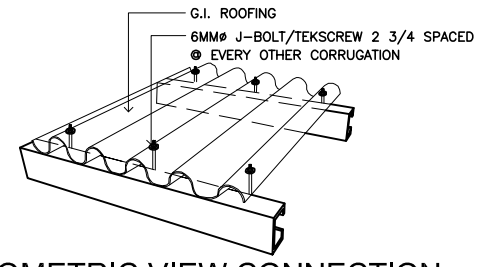
2 S-2 DETAIL OF T-2
SCALE 1:25M



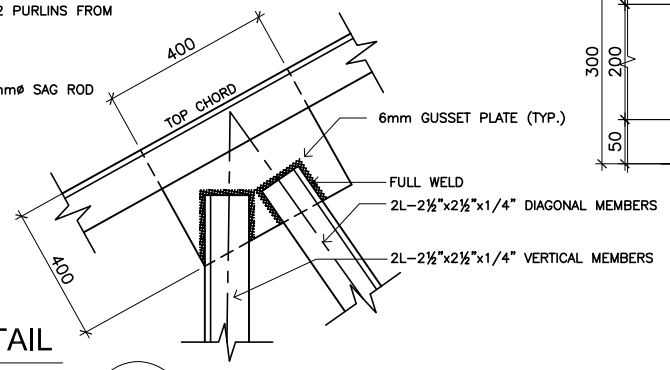
3 S-2 T-2 SPOT DETAIL
SCALE 1:20M



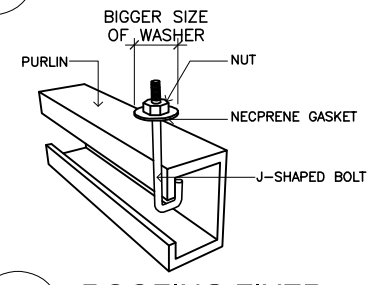
8 S-2 RIDGE ROLL CONNECTION DETAIL
SCALE: NTS



4 S-2 ISOMETRIC VIEW CONNECTION OF G.I. SHEET TO PURLIN
SCALE 1:5M

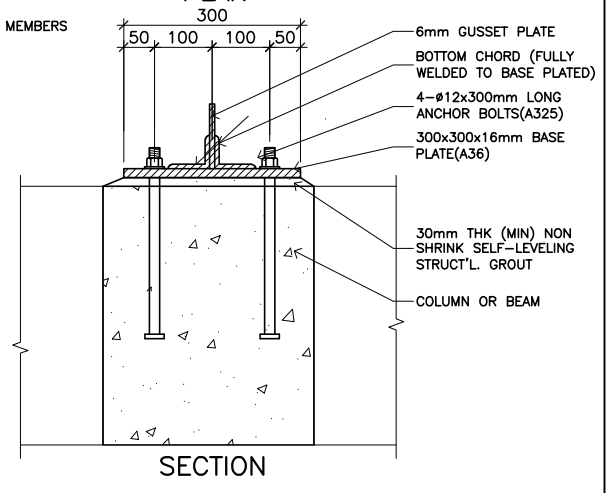


7 S-2 CONNECTION DETAIL
SCALE 1:5M



5 S-2 ROOFING FIXER
SCALE 1:5M

PLAN



SECTION

6 S-2 TYPICAL TRUSS ANCHORAGE DETAIL
SCALE 1:5M

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MERALCO AVENUE, PASIG CITY

DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :
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PROJECT TITLE : ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING

DATE PREPARED :

DATE REVISED : JANUARY 2021_REV 05

PROJECT CODE: DSD - 1S1C - 14 - T2

OWNER : DEPARTMENT OF EDUCATION DepED

SHEET CONTENTS : TYPICAL BEAM ELEV. BEAM SCHEDULE, ELEV. GRID @0,0 RAFTER ANCHORAGE DETAIL, PURLIN, TIE ROD, SAGROD, CONNECTION DETAIL

SHEET NO: S-2 / 2

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GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1. IN THE INTERPRETATION OF THE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OF 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 PARTITIONS, 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 ENGINEERS AND THE ARCHITECT.
4. ALL CONCRETE WORKS SHALL BE DONE IN ACCORDANCE WITH THE ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH ASCI SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, ASCI 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
SUSPENDED SLABS,	4000 PSI (28 MPa)	20mm	100mm
COLUMNS	4000 PSI (28 MPa)	20mm	100mm
GIRDER/BEAMS/FOOTING TIE BEAMS	4000 PSI (28 MPa)	20mm	100mm
SLAB ON GRADE/	3000 PSI (21 MPa)	20mm	100mm
STAIRS	4000 PSI (28 MPa)	20mm	100mm
OTHERS NOT INDICATED	4000 PSI (28 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. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR FLOWING 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 IS 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 ---------- 18 HRS
   - 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 SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

CAMBER REQUIREMENTS

1. UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, CAMBER ALL RC BEAMS AT LEAST 10mm FOR EVERY 4000mm OF CLEAR SPAN EXCEPT CANTILEVERS WHICH SHALL BE 50mm FOR EVERY 3000mm OF CLEAR SPAN.
2. UNLESS... CAMBER ALL SLABS 8mm PER 3000mm OF SHORTER SPAN AND 14mm FOR EVERY 2000mm OF SLAB CANTILEVER SPAN.

NOTES OF FOOTINGS

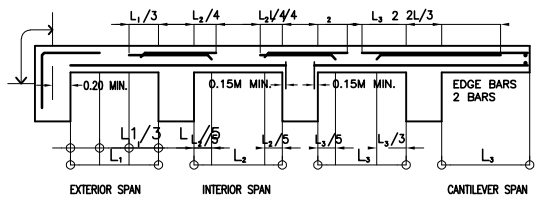
1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 95.706 KPa. CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, SOIL CONDITIONS, UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE
2. FOOTING SHALL REST AT LEAST 1200mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN 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.
4. SIZES OF FOOTING ARE SUBJECT TO CHANGE DEPENDING ON THE RESULT OF SOIL INVESTIGATION REPORT THAT SHALL BE CONDUCTED PRIOR TO CONSTRUCTION.

NOTES ON REINFORCEMENT

1. ø16 AND BELOW: GRADE 40 (40000 psi)
   ø20 AND ABOVE: GRADE 60 (60000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR BIGGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS.
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 HAVE A MINIMUM 20mm CLEAR FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE DETAILED IN CONTINUOUS SLAB HAVING SAME REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARS SHALL BE BENT UP, OR CUT AS FOLLOWS



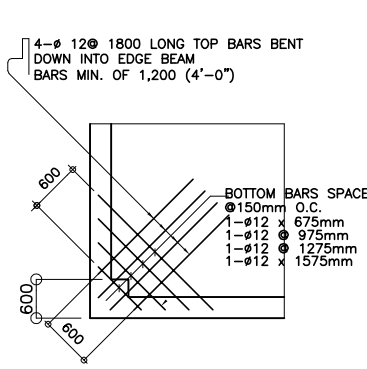
TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

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 REINFOCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL BE APPOXIMATELY ONE AND A HALF (1 1/2) SLAB THICKNESS OR 45 CENTIMETERS
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 BT. (SEE SCHEDULE BELOW)

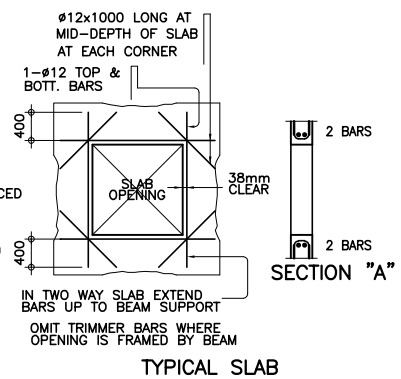
SCHEDULE OF MINIMUM SLAB REINFORCEMENT

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ø @ 300mm EACH WAY
125 mm	10 mm ø @ 250mm EACH WAY
150 mm	10 mm ø @ 200mm EACH WAY
175 mm	10 mm ø @ 175mm EACH WAY
200 mm	10 mm ø @ 150mm 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



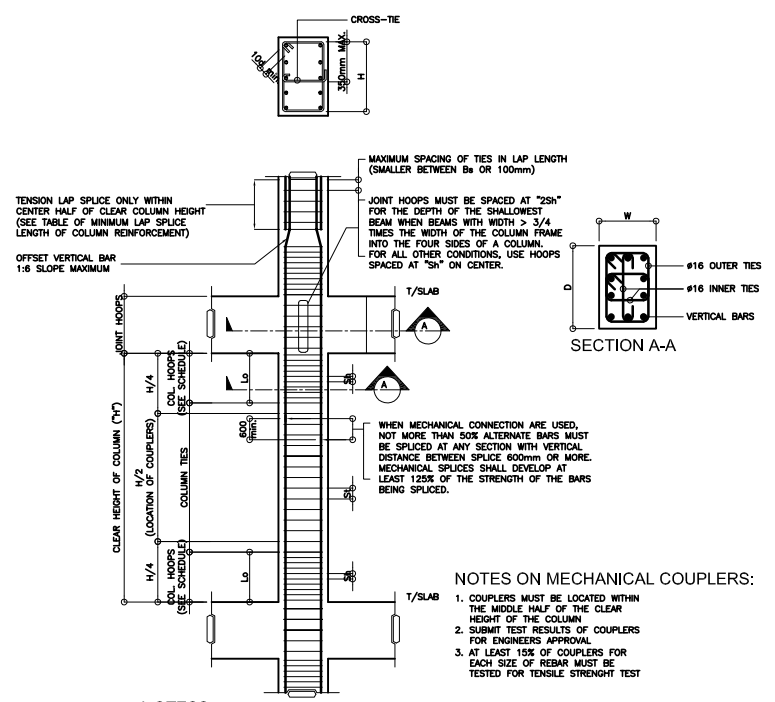
TYPICAL CORNER SLAB DETAIL



TYPICAL SLAB OPENING DET.

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 COLUMN REINFORCE-MENT 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.



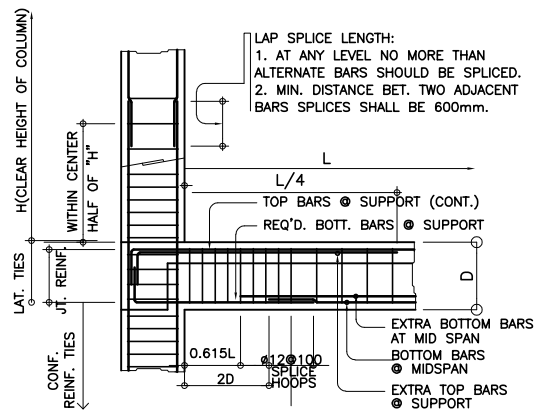
NOTES ON MECHANICAL COUPLERS:

1. COUPLERS MUST BE LOCATED WITHIN THE MIDDLE HALF OF THE CLEAR HEIGHT OF THE COLUMN
2. SUBMIT TEST RESULTS OF COUPLERS FOR ENGINEERS APPROVAL
3. AT LEAST 15% OF COUPLERS FOR EACH SIZE OF REBAR MUST BE TESTED FOR TENSILE STRENGHT TEST

NOTESS:

Sh = HOOP AND SUPPLEMENTARY CROSSTIE SPACING NOT TO EXCEED Bs/4 OR 100m.
St = COLUMN TIE SPACING, NOT TO EXCEED 16db OF VERTICALS, 48db OF TIES, Bs OR 150mm, WHICHEVER IS LESSER.
Be = SMALLER DIMENSION OF COLUMN CROSS SECTION
Lo = LARGEST COLUMN DIMENSION, 1/6 OF CLEAR HEIGHT OR 450mm WHICHEVER IS GREATER.
H = CLEAR HEIGHT OF COLUMN.

TYPICAL MOMENT FRAME CONCRETE COLUMN SPLICE DETAIL



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

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GENERAL CONSTRUCTION NOTES

NOTES ON BEAMS AND GIRDERS

1. UNLESS , OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIDER AT LEAST 6mm.S FOR EVERY 4.50M OF SPAN , EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE INGINEER 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.

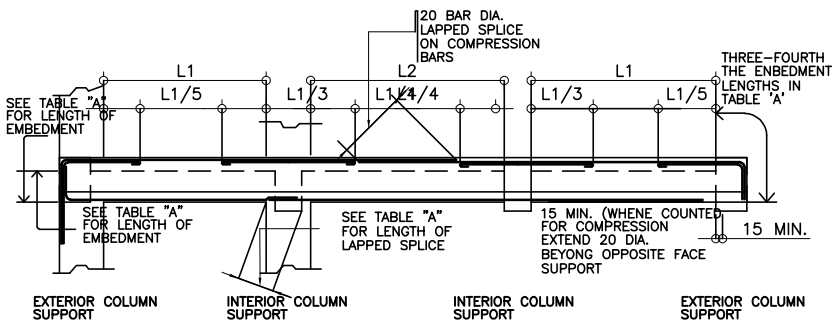


FIG. B–1

TABLE 1

PARAMETERS

COMPRESSIVE STRENGTH OF CONCRETE(f'c) = 27.59 Mpa
YIELD STRENGTH OF STEEL(fy) = 413.79Mpa

BAR ø (mm)	DEVELOPMENT LENGTH TENSION(ld) (mm)	DEVELOPMENT LENGTH COMPRESSION(ldc) (mm)	LAP SPLICE COMPRESSION (mm)	LAP SPLICE CLASS	LAP SPLICE TENSION (mm) TOP	LAP SPLICE TENSION (mm) BOTTOM	STANDARD HOOKS IN TENSION(mm)	BEND DIAMETER (mm)	FOR STIRRUPS & TIES (mm) 90	FOR STIRRUPS & TIES (mm) 135	END HOOKS (mm) 90	END HOOKS (mm) 180
10	570	200	300	A	750	570	190	60	100	160	160	160
				B	980	750						
12	680	230	360	A	890	680	230	72	120	190	200	180
				B	1160	890						
16	910	310	480	A	1190	910	310	96	160	250	260	220
				B	1550	1190						
20	1130	380	590	A	1470	1130	380	120	320	310	320	270
				B	1920	1470						
25	1800	480	740	A	2340	1800	480	200	425	470	430	420
				B	3050	2340						
28	2010	530	830	A	2620	2010	530	224			480	470
				B	3410	2620						
32	2300	610	950	A	2990	2300	610	256			550	540
				B	3890	2990						
36	2580	690	1060	A	3360	2580	690	288			620	600
				B	4370	3360						

PARAMETERS

COMPRESSIVE STRENGTH OF CONCRETE(f'c) = 20.69 Mpa
YIELD STRENGTH OF STEEL(fy) = 413.79Mpa

BAR ø (mm)	DEVELOPMENT LENGTH TENSION(ld) (mm)	DEVELOPMENT LENGTH COMPRESSION(ldc) (mm)	LAP SPLICE COMPRESSION (mm)	LAP SPLICE CLASS	LAP SPLICE TENSION (mm) TOP	LAP SPLICE TENSION (mm) BOTTOM	STANDARD HOOKS IN TENSION(mm)	BEND DIAMETER (mm)	FOR STIRRUPS & TIES (mm) 90	FOR STIRRUPS & TIES (mm) 135	END HOOKS (mm) 90	END HOOKS (mm) 180
10	650	220	300	A	850	650	220	60	100	160	160	160
				B	1110	850						
12	780	270	360	A	1020	780	270	72	120	190	200	180
				B	1330	1020						
16	1040	350	480	A	1360	1040	350	96	160	250	260	220
				B	1770	1360						
20	1300	440	590	A	1690	1300	440	120	320	310	320	270
				B	2200	1690						
25	2070	550	740	A	2700	2070	550	200	425	470	430	420
				B	3510	2700						
28	2320	620	830	A	3020	2320	620	224			480	470
				B	3930	3020						
32	2650	700	950	A	3450	2650	700	256			550	540
				B	4480	3450						
36	2980	790	1060	A	3880	2980	790	288			620	600
				B	5050	3880						

PARAMETERS

COMPRESSIVE STRENGTH OF CONCRETE(f'c) = 27.59 Mpa
YIELD STRENGTH OF STEEL(fy) = 275.86Mpa

BAR ø (mm)	DEVELOPMENT LENGTH TENSION(ld) (mm)	DEVELOPMENT LENGTH COMPRESSION(ldc) (mm)	LAP SPLICE COMPRESSION (mm)	LAP SPLICE CLASS	LAP SPLICE TENSION (mm) TOP	LAP SPLICE TENSION (mm) BOTTOM	STANDARD HOOKS IN TENSION(mm)	BEND DIAMETER (mm)	FOR STIRRUPS & TIES (mm) 90	FOR STIRRUPS & TIES (mm) 135	END HOOKS (mm) 90	END HOOKS (mm) 180
10	380	200	300	A	500	380	150	60	100	160	160	160
				B	650	500						
12	460	200	300	A	600	460	160	72	120	190	200	180
				B	780	600						
16	610	210	320	A	800	610	210	96	160	250	260	220
				B	1040	800						
20	760	260	400	A	990	760	260	120	320	310	320	270
				B	1290	990						
25	1200	320	490	A	1560	1200	320	200	425	470	430	420
				B	2030	1560						
28	1340	360	550	A	1750	1340	360	224			480	470
				B	2280	1750						
32	1530	410	630	A	1990	1530	410	256			550	540
				B	2590	1990						
36	1720	460	710	A	2240	1720	460	288			620	600
				B	2920	2240						

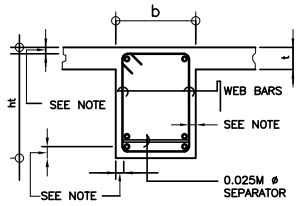
PARAMETERS

COMPRESSIVE STRENGTH OF CONCRETE(f'c) = 20.69 Mpa
YIELD STRENGTH OF STEEL(fy) = 275.86Mpa

BAR ø (mm)	DEVELOPMENT LENGTH TENSION(ld) (mm)	DEVELOPMENT LENGTH COMPRESSION(ldc) (mm)	LAP SPLICE COMPRESSION (mm)	LAP SPLICE CLASS	LAP SPLICE TENSION (mm) TOP	LAP SPLICE TENSION (mm) BOTTOM	STANDARD HOOKS IN TENSION(mm)	BEND DIAMETER (mm)	FOR STIRRUPS & TIES (mm) 90	FOR STIRRUPS & TIES (mm) 135	END HOOKS (mm) 90	END HOOKS (mm) 180
10	440	200	300	A	580	440	150	60	100	160	160	160
				B	760	580						
12	520	200	300	A	680	520	180	72	120	190	200	180
				B	890	680						
16	700	240	320	A	910	700	240	96	160	250	260	220
				B	1190	910						
20	870	300	400	A	1140	870	300	120	320	310	320	270
				B	1490	1140						
25	1380	370	490	A	1800	1380	370	200	425	470	430	420
				B	2340	1800						
28	1550	410	550	A	2020	1550	410	224			480	470
				B	2630	2020						
32	1770	470	630	A	2310	1770	470	256			550	540
				B	3010	2310						
36	1990	530	710	A	2580	1990	530	288			620	600
				B	3370	2590						

NOTE :
1. DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE, IN TENSION OR COMPRESSION, SHALL BE THAT FOR INDIVIDUAL BARS, INCREASED 20% FOR THREE–BUNDLED AND 33% FOR FOUR–BUNDLED BARS.
2. FOR COLUMNS AT ANY LEVEL, NO MORE THAN ALTERNATE BARS SHOULD BE SPLICED, NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH, MINIMUM DISTANCE BETWEEN TWO ADJACENT SPLICED SHALL BE 600mm.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm DEPTH OF CONCRETE CAST BELOW REINFORCEMENT.
4. LAP SPLICE SHALL BE "CLASS B" TENSION LAP SPLICE IF MORE THAN ONE HALF OF THE BARS WERE SPLICED AT ANY SECTION, WHILE "CLASS A" TENSION LAP SPLICE IF HALF OR FEWER THAN HALF OF BARS WERE SPLICED.

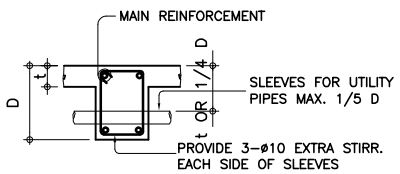
3. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN S. TOP BAR SHALL NOT BE SPLICED WITHIN THE 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–FORCING 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.

NOTES ON MASONRY AND CONCRETE BLOCKS

1. ALL CONCRETE BLOCKS MUST DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4.5 Mpa UNLESS OTHERWISE NOTED IN PLANS.
2. PROVIDE 1–ø16 EXTRA VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENINGS AS SHOWN.
3. LINTEL BEAMS OR LINTEL BLOCKS SHALL BEAR AT LEAST 8 INCHES (200mm) ON EACH SIDE OF MASONRY WALL OPENING.
4. WALL REINFORCEMENTS SHALL BE AS FOLLOWS:

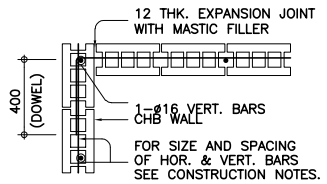
WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200mm)	ø 12 @ 400 mm	ø 10 @ 600 mm
6 IN. (150mm)	ø 10 @ 400 mm	ø 10 @ 600 mm
4 IN. (100mm)	ø 10 @ 400 mm	ø 10 @ 600 mm

5. BLOCK WALL REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICED, HORIZONTAL/VERTICAL DOWELS FROM FOOTINGS, COLUMNS/WALLS OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETERS OR A MINIMUM OF 400 mm. WHICHEVER IS LONGER AND DOWELS TO MATCH VERTICAL REINFORCEMENT OF WALL.

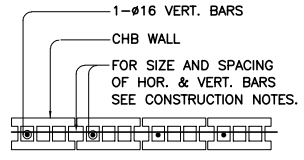
6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT. (REFER TO SPECIFICATION)
7. R. C. WALL REINFORCEMENT SHALL BE AS FOLLOWS:

WALL THICKNESS	VERTICAL REINF.	HORIZONTAL REINF.	LOCATION
200mm	ø 10 @ 300 mm	ø 10 @ 300 mm	CENTER LINE
150mm	ø 10 @ 250 mm	ø 10 @ 300 mm	CENTER LINE
120mm	ø 10 @ 600 mm	ø 10 @ 400 mm	CENTER LINE
100mm	ø 10 @ 400 mm	ø 10 @ 400 mm	CENTER LINE

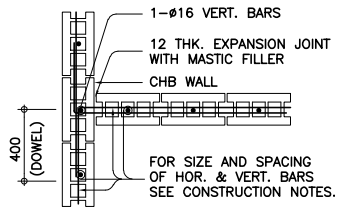
8. VERTICAL REINFORCING SHALL BE CONTINUOUS FROM STRUCTURAL LEVEL TO STRUCTURAL LEVEL UNLESS OTHERWISE NOTED.
9. HORIZONTAL SPACING SHALL START AND END FROM NOT MORE THAN 1/2 THE SCHEDULE SPACING.
10. SPLICES IN HORIZONTAL REINF. SHALL BE STAGGERED. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.
11. THIS TABLE APPLIES TO WALLS WHICH ARE ARCHITECTURALLY EXPOSED TO VIEW.
12. TENSION SPLICES SHALL BE AS FOR SEISMIC TENSION SPLICES.



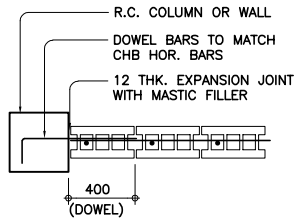
CORNER WALL



OPENING OR END WALL

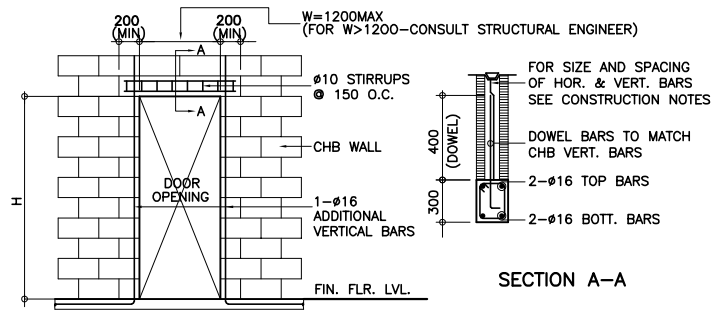


INTERSECTION WALL



INTERSECTING R.C. COL. OR WALL

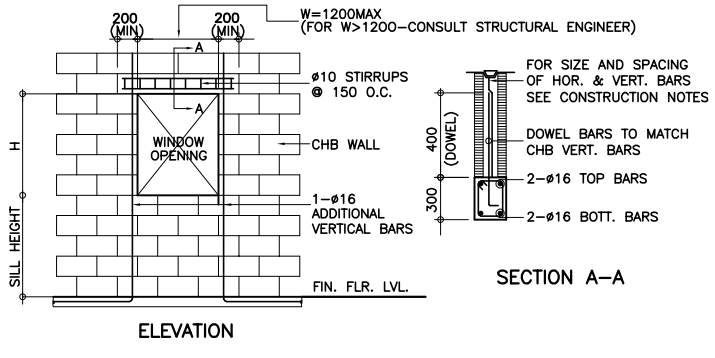
TYPICAL CONNECTION DETAIL OF MASONRY WALL



ELEVATION

SECTION A–A

(DOOR OPENING ELEVATION)



ELEVATION

SECTION A–A

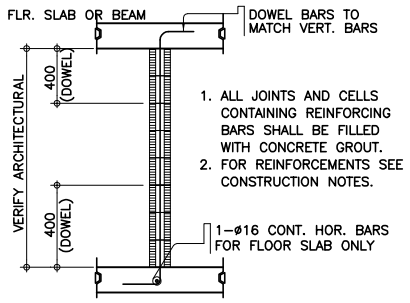
WINDOW OPENING ELEVATION)

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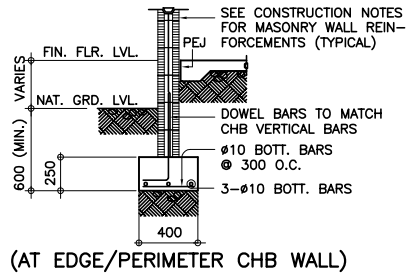
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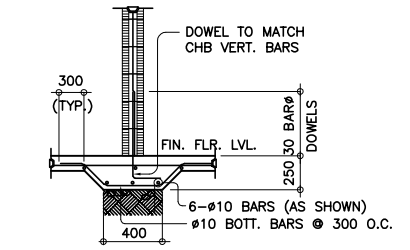
GENERAL CONSTRUCTION NOTES



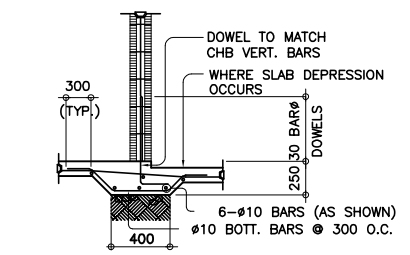
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



(AT EDGE/PERIMETER CHB WALL)

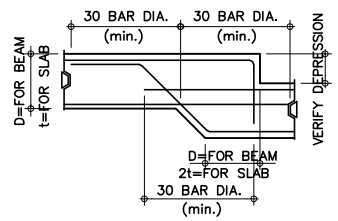


(AT INTERIOR CHB WALL)

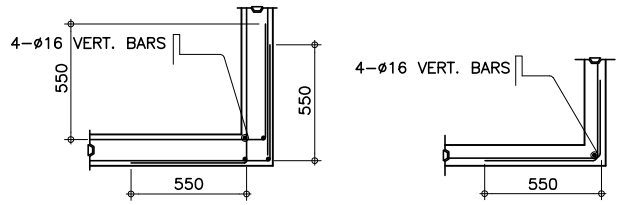


(AT INTERIOR WALLS W/ SLAB ELEV. DIFFERENCE)

TYPICAL CHB FOOTING DETAILS



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT



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

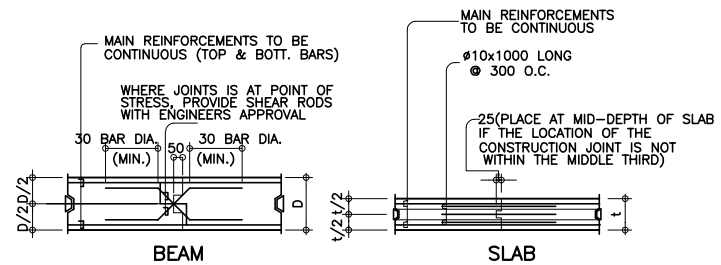
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A 36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 325 BOLTS.

NOTES ON EMBEDED PIPES

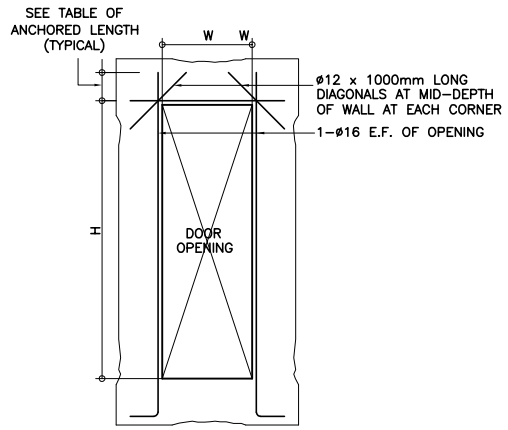
A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL BE MAXIMUM 100mm OR D/3 WHICHEVER IS LESS DIAMETER SINGLE RIGID GALVANIZED IRON PIPE UNLESS OTHERWISE OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDED TO COLUMNS.

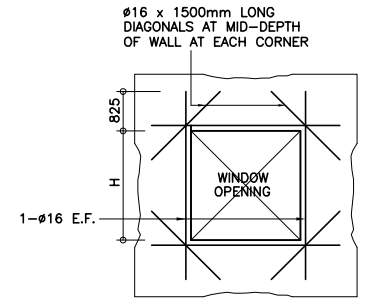
NOTES ON CONCRETE HOLLOW BLOCK WALLS

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



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

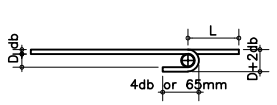




DOOR OPENING & WINDOW OPENING

NOTES OF STIRRUPS

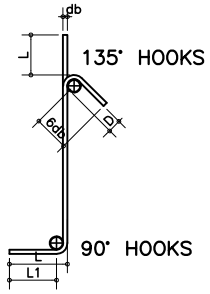
1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. REINFORCEMENT PARCIALLY EMBEDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.



180° END HOOKS



90° END HOOKS



MAIN BAR END HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER OF BEND (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10mm ø	60	75	125	150
12mm ø	75	100	150	200
16mm ø	100	125	175	250
20mm ø	120	150	200	300
25mm ø	150	200	230	450
28mm ø	225	300	350	550
32mm ø	260	335	450	600

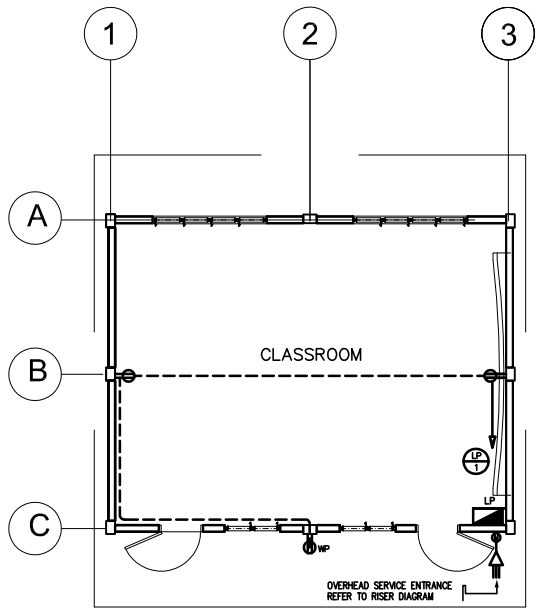
STIRRUP AND TIE HOOKS (ALL GRADES)

BAR SIZE (DEFORMED)	DIAMETER OF BEND (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

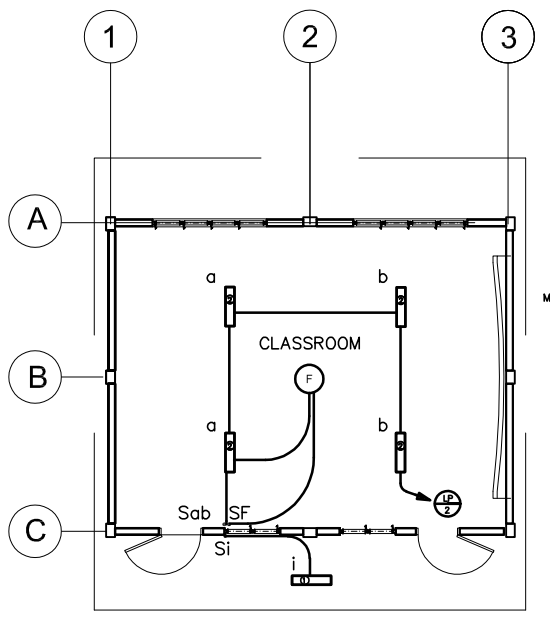
REPUBLIC OF THE PHILIPPINES
DepED
DEPARTMENT OF EDUCATION
EDUCATION FACILITIES DIVISION
MERALCO AVENUE, PASIG CITY

DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	PROJECT TITLE :	PROJECT CODE:	OWNER :	SHEET NO:
JUNELSON P. CULLADO CADD OPERATOR EFD–DepEd	WILFREDO D. ALARCON STRUCTURAL ENGINEER EFD–DepEd	LUIS G. PURISIMA, JR. ASST. CHIEF, EFD–AS DepEd	ANNABELLE R. PANGAN CHIEF, EFD–AS DepEd	ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING DATE PREPARED : / DATE REVISED : JANUARY 2021_REV 05	DSD - 1S1C - 14 - T2	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : GENERAL CONSTRUCTION NOTES	SS-3 3

NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF EDUCATION FACILITIES DIVISION, DEPARTMENT OF EDUCATION AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION, ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.
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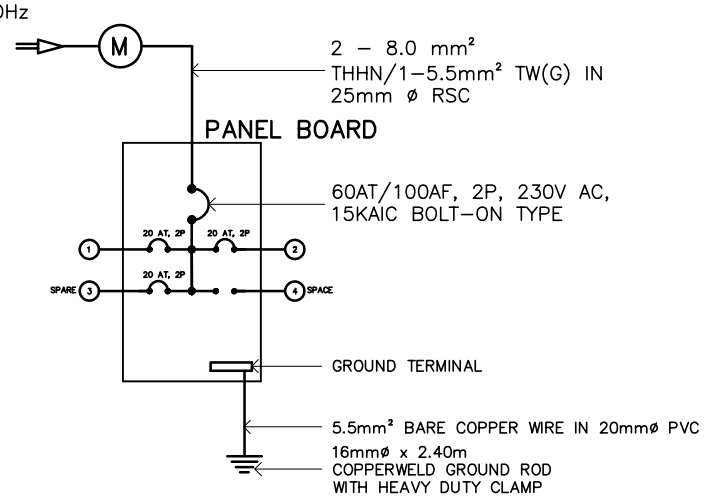
1 / E–1 **POWER LAYOUT**
SCALE 1:100M



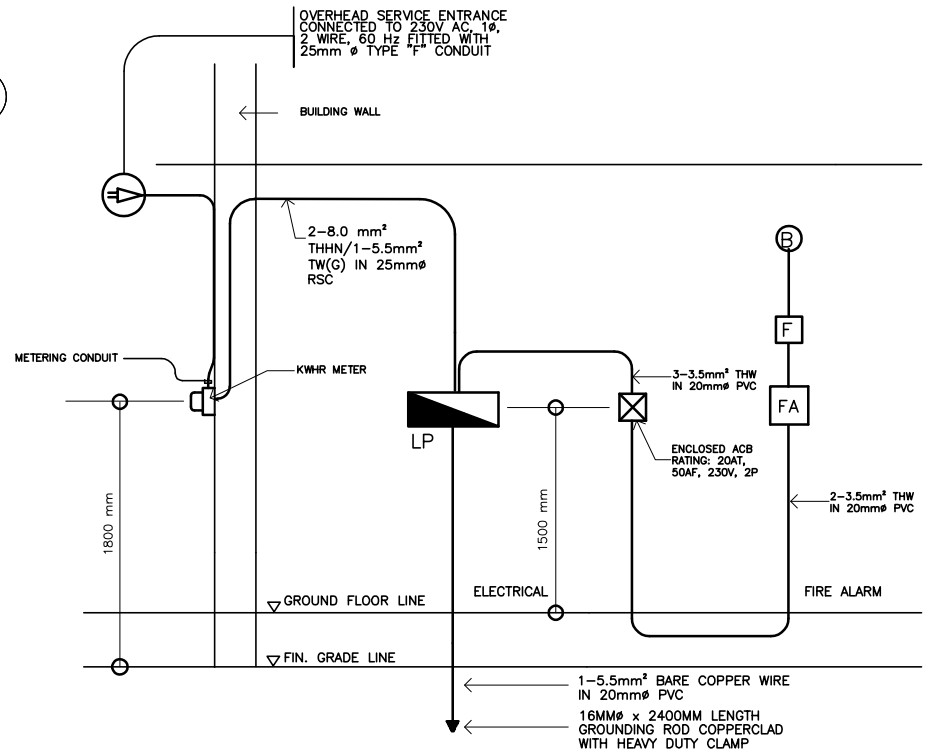
2 / E–1 **LIGHTING LAYOUT**
SCALE 1:100M

SERVICE ENTRANCE

1ø, 230V, 2–WIRE + GROUND, 60Hz



3 / E–1 **RISER DIAGRAM**
SCALE: NTS



4 / E–1 **SINGLE LINE DIAGRAM**
SCALE NTS

PANELBOARD: LP

MOUNTING: FLUSH TYPE: FLUSH MAIN : 60AT/100AF, 2P, 230V, 15KAIC BOLT–ON TYPE

CKT. NO.	DESCRIPTION	VA LOAD	AMPS	CIRCUIT BREAKER				WIRE & CONDUIT SIZE
				VOLT	POLE	AT	AF	
1	CONV. OUTLET – 3 x 180W	675	2.93	230	2	20	50	2 – 3.5 mm² THHN + 1–3.5mm² TW(G) IN 20mm ø PVC
2	LIGHT OUTLET – 9 x 40W FAN OUTLET – 1 x 180W	675	2.93	230	2	20	50	2 – 3.5 mm² THHN IN 20mm ø PVC
3	SPARE	1500	6.52	230	2	20	50	
TOTAL		2850 VA						

IL = 2850 VA / 230 V = 12.39 A

FEEDER : 2 – 8.0mm² THHN + 1 – 5.5 mm² TW (G) IN 25mm ø RSC
PROTECTION : MAIN : 60AT/100AF, 2P, 230V, 15KAIC, BOLT–ON
BRANCHER : 3 x 20AT, 2P, BOLT–ON IN NEMA 1 ENCLOSURE

5 / E–1 **LOAD SCHEDULE**
SCALE NTS

GENERAL NOTES :

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1–PHASE, 2–WIRE + GROUND 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :
   a. FEEDERS AND RISERS – INTERMEDIATE METALLIC CONDUIT
   b. LIGHTING, POWER RECEPTACLE BRANCH CKT., & AUXILIARY – POLYVINYL CHLORIDE CONDUIT THICK WALL
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm² ø TRADE/NOMINAL SIZE. LIKEWISE ALL ELECTRICAL WIRES SHALL BE COLOR CODED.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
   a. LIGHT SWITCH – 1.20 M ABOVE FINISH FLOOR
   b. CONVENIENCE OUTLET – 0.30 M ABOVE FINISH FLOOR.
   c. PANELBOARD – 1.80 M ABOVE FINISH FLOOR
   d. FIRE ALARM STATION OUTLET – 1.50 M. ABOVE FINISH FLOOR
   e. PUSH BUTTON OUTLET – 1.20 M ABOVE FINISH FLOOR
   f. FIRE ALARM & VIBRATING BELL – 0.30 M BELOW CEILING LINE

LEGEND :

SYMBOL		DESCRIPTION
✧	–	CEILING LIGHT OUTLET WITH COMPACT FLUORESCENT LAMP
	–	2 x 40 WATTS FLUORESCENT LAMP OR 2 x 36 WATTS FLUORESCENT LAMP(T5)
	–	1 x 40 WATTS FLUORESCENT LAMP OR 1 x 36 WATTS FLUORESCENT LAMP(T5)
F	–	CEILING FAN OUTLET
S/Sa	–	ONE GANG DEVICE SWITCH
Sab	–	TWO GANG DEVICE SWITCH
Scde	–	THREE GANG DEVICE SWITCH
S3W	–	THREE WAY DEVICE SWITCH
Sf	–	FAN CONTROL SWITCH
SEF	–	EXHAUST FAN SWITCH
———	–	RACEWAY CONDUIT CONCEALED IN CEILING
– – – –	–	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	–	PANELBOARD, MARKED AS "LP"
	–	CKT. BREAKER, RATING AS INDICATED
	–	TAMPERED PROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 16 AMPS, 250 VOLT WITH MODERN PLATE COVER
WP	–	WEATHERPROOF DUPLEX CONVENIENCE OUTLET,TAMPERED PROOF,GROUNDING TYPE, 16 AMPS, 250 VOLT
EF	–	EXHAUST FAN OUTLET, SIMPLEX 16 AMPS, 250 VOLT WITH MODERN PLATE COVER
LP 1	–	CIRCUIT HOMERUN
	–	PUSH BUTTON SWITCH
	–	ENCLOSED AIR CIRCUIT BREAKER
FA	–	FIRE ALARM CONTROL PANEL
F	–	FIRE ALARM STATION OUTLET
B	–	VIBRATING BELL OUTLET
B	–	FIRE ALARM BELL
M	–	SERVICE METER
	–	SERVICE ENTRANCE

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DEPARTMENT OF EDUCATION
EDUCATION FACILITIES DIVISION
MERALCO AVENUE, PASIG CITY

DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :
JUNELSON P. CULLADO CADD OPERATOR EFD–DepEd	FELIX P. MACARANDAN PROFESSIONAL ELECTRICAL ENGINEER EFD–DepEd	LUIS G. PURISIMA, JR. ASST. CHIEF, EFD–AS DepEd	ANNABELLE R. PANGAN CHIEF, EFD–AS DepEd

PROJECT TITLE : ONE STOREY ONE (1) CLASSROOM SCHOOL BUILDING

DATE PREPARED :

DATE REVISED : JANUARY 2021_REV 05

PROJECT CODE: DSD - 1S1C - 14 - T2

OWNER : DEPARTMENT OF EDUCATION DepED

SHEET CONTENTS : POWER LAYOUT LIGHTING LAYOUT LOAD SCHEDULE GENERAL NOTES, LEGEND, RISER DIAGRAM

SHEET NO: E-1 / 1

NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF EDUCATION FACILITIES DIVISION, DEPARTMENT OF EDUCATION AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION, ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.

REP. ACT 545

Annex "B"

CONTRACTOR'S LOGO

PROGRAM OF WORKS

BILL OF QUANTITIES

BEFF 2026 - REGION VI- AKLAN - 001

School	: Mambuquiao Integrated School	**Date:**	
School I.D	: 500544	**Budget Allocation:**	-
Region	: VI	**Engineering and Administrative Overhead:**	0.00
Division	: Aklan	**Approved Budget for the Contract:**	-
Project Title	:	**Completion Period:**	
PROPOSED REPAIR AND REHABILITATION OF ONE (3) - CLASSROOMS SCHOOL BUILDING (DECS TYPE) - (7.00m x 8.00m)		**Minimum Required Manpower:**	
		General Foreman / Welder / Carpenter	
		Helper / Mason / Painter	
Location	: Batan, Aklan	**Minimum Required Equipment:**	
		Hand Tools / Welding Machine	
		One-Bagger Mixer / Bar Cutter	

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost	
					Total Cost	Unit Cost			
(1)	(2)	(3)	(4)	(5)	(6)	(7) (6) / (5)	(8) (9) / (5)	(9)	
A.	**Facilities for the Engineer**								
A.1	Temporary Facilities		Month	3.00		-	-		-
B.	**Other General Requirements**								
B.1	Fire Safety Inspection Certificate (FSIC)		lot	1.00					-
SPL 1	Project Billboard		Each	1.00					-
SPL 2	Construction Safety and Health		Month	3.00					-
C.	**Mobilization and Demobilization**								
C.1	Mobilization and Demobilization		Ls	1.00					
2.0000	**Concreting Works (3000 psi)**								
2 (h)	Ramp on Fill		cu m	0.54					-
	Finishing Works								
5 (d)	Plain Cement Plaster Finish		sq.m	50.00					-
5 (e)	Plain Cement Floor Finish								
6.0000	**Fabricated Materials and Hardware**								
6 (a)	Removal of Door with Jamb		set	3.00					-
6 (b)	Removal of Window with Jamb		sq m	25.92					-
6 (d)	Wooden Panel Door		sq m	5.67					-
6 (e)	Jalousie Window (Glass)		sq m	25.92					-
6 (f)	Frames (Jambs, Sill, Head, Transoms, and Mullions)		set	3.00					-
6 (g)	Ramp Rail		Ls	1.00					-
7.0000	**Steel Works**								
7 (c)	Structural Steel Roof Truss		kg	1,721.00					-
7 (d)	Structural Steel Purlins		kg	1,723.00					-
7 (e)	Metal Structure Accessories (Steel Plates)		kg	192.17					-
7 (f)	Metal Structure Accessories (Anchor Bolts)		pc	9.00					-
7 (g)	Metal Structure Accessories (Sag Rods)		pc	144.00					-
7 (h)	Metal Structure Accessories (Turn Buckle)		pc	24.00					-
7 (i)	Metal Structure Accessories (Cross Bracing)		pc	23.00					-
8.0000	**Roofing Works**								
8 (a)	Removal of Metal Roofing		sq m	237.00					-
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT		sq.m	330.00					-
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)		m	19.00					-
9.0000	**Ceiling and Carpentry Works**								
9 (d)	Removal of Ceiling		sq m	303.00					-
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling		sq.m	303.00					-
9 (i)	Blackboard		sq.m	17.28					-
10.0000	**Electrical Works**								
10 (a)	Conduit, Boxes and Fitting		Ls	1.00					-
10 (b)	Wires and Wiring Devices		Ls	1.00					-
10 (c)	Lighting Fixture/ Fixture		Ls	1.00					-
10 (d)	Panel Board and Cabinets		Ls	1.00					-
13.0000	**Painting Works**								
13 (a)	Masonry Painting		sq.m	390.00					-
13 (b)	Wooden Painting		sq.m	128.00					-
									-
		0.00%				**Total Construction Cost**		-	-

0.00

Prepared by:

CONTRACTOR

CONTRACTOR'S LOGO

PROGRAM OF WORKS

DETAILED COST ESTIMATE

(TOTAL CONSTRUCTION COST/ ABC)

BEFF 2026 - REGION VI - AKLAN - 001

PROJECT PROPOSED REPAIR AND REHABILITATION OF ONE (3) - CLASSROOMS SCHOOL BUILDING (DECS TYPE) - (7.00m x 8.00m)
SCHOOL : Mambuquiao Integrated School
LOCATION : Batan, Aklan
OWNER : **DEPARTMENT OF EDUCATION**

CONTRACT DURATION : 90 **CD**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) (6) + (7)	(9) (5) x (8)	(10) 5% [(5) + (9)]	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
A.	**Facilities for the Engineer**											
A.1	Temporary Facilities	3.00	Month	-				-	-	-	-	-
B.	**Other General Requirements**											
B.1	Fire Safety Inspection Certificate (FSIC)	1.00	lot	-				-	-	-	-	-
SPL 1	Project Billboard	1.00	Each	-				-	-	-	-	-
SPL 2	Construction Safety and Health	3.00	Month	-				-	-	-	-	-
C.	**Mobilization and Demobilization**											
C.1	Mobilization and Demobilization	1.00	Ls	-				-	-	-	-	-
2.0000	**Concreting Works (3000 psi)**											
2 (h)	Ramp on Fill	0.54	cu m	-				-	-	-	-	-
	Finishing Works											
5 (d)	Plain Cement Plaster Finish	50.00	sq.m	-				-	-	-	-	-
5 (e)	Plain Cement Floor Finish							-	-	-	-	-
6.0000	**Fabricated Materials and Hardware**											
6 (a)	Removal of Door with Jamb	3.00	set	-				-	-	-	-	-
6 (b)	Removal of Window with Jamb	25.92	sq m	-				-	-	-	-	-
6 (d)	Wooden Panel Door	5.67	sq m	-				-	-	-	-	-
6 (e)	Jalousie Window (Glass)	25.92	sq m	-				-	-	-	-	-
6 (f)	Frames (Jambs, Sill, Head, Transoms, and Mullions)	3.00	set	-				-	-	-	-	-
6 (g)	Ramp Rail	1.00	Ls	-				-	-	-	-	-
7.0000	**Steel Works**											
7 (c)	Structural Steel Roof Truss	1,721.00	kg	-				-	-	-	-	-
7 (d)	Structural Steel Purlins	1,723.00	kg	-				-	-	-	-	-
7 (e)	Metal Structure Accessories (Steel Plates)	192.17	kg	-				-	-	-	-	-
7 (f)	Metal Structure Accessories (Anchor Bolts)	9.00	pc	-				-	-	-	-	-
7 (g)	Metal Structure Accessories (Sag Rods)	144.00	pc	-				-	-	-	-	-
7 (h)	Metal Structure Accessories (Turn Buckle)	24.00	pc	-				-	-	-	-	-
7 (i)	Metal Structure Accessories (Cross Bracing)	23.00	pc	-				-	-	-	-	-
8.0000	**Roofing Works**											
8 (a)	Removal of Metal Roofing	237.00	sq m	-				-	-	-	-	-

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT	330.00	sq.m	-				-	-	-	-	-
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)	19.00	m	-				-	-	-	-	-
9.0000	**Ceiling and Carpentry Works**											
9 (d)	Removal of Ceiling	303.00	sq m	-				-	-	-	-	-
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling	303.00	sq.m	-				-	-	-	-	-
9 (i)	Blackboard	17.28	sq.m	-				-	-	-	-	-
10.0000	**Electrical Works**											
10 (a)	Conduit, Boxes and Fitting	1.00	Ls	-				-	-	-	-	-
10 (b)	Wires and Wiring Devices	1.00	Ls	-				-	-	-	-	-
10 (c)	Lighting Fixture/ Fixture	1.00	Ls	-				-	-	-	-	-
10 (d)	Panel Board and Cabinets	1.00	Ls	-				-	-	-	-	-
13.0000	**Painting Works**											
13 (a)	Masonry Painting	390.00	sq.m	-				-	-	-	-	-
13 (b)	Wooden Painting	128.00	sq.m	-				-	-	-	-	-
	TOTAL CONSTRUCTION COST										-	

Prepared by:

CONTRACTOR