

ELECTRICAL NOTES :

1. THE ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, APPLICABLE ORDINANCES OF THE LOCAL GOVERNMENT AND WITH THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. ALL WIRING SHALL BE INSTALLED IN PVC PIPE(PNS 14) EMBEDDED INSIDE THE CONCRETE AND HOLLOW BLOCK STRUCTURE SLABS, COLUMNS, WALL PARTITIONS AND OR RUNS CONCEALED BETWEEN DOUBLE WALL WOODEN PARTITIONS AND INSIDE THE CEILING SPACES WHERE THE USE OF CONCEALED CONDUIT WIRING IMPRACTIBLE SURFACE METAL MOULDING WIRING MAY BE USED.
3. UNLESS OTHERWISE INDICATED ON THE PLAN THE MINIMUM SIZES OF WIRE PVC PIPE TO BE USED SHALL BE NO. 2mm² AND 20 mm Ø RESPECTIVELY.
4. ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LEES THAN 3.5 mm² THHN IN SIZES UNLESS OTHERWISE INDICATED ON THE PLAN.
5. WHEREVER REQUIRED AND NECESSARY PULL BOXES OR JUNCTION BOXES OF PROPER SIZES SHALL BE INSTALL AT CONVENIENT AND INCONSPICUOUS LOCATION ALTHOUGH SUCH BOXES OR JUNCTION ARE NOT SHOWN ON THE PLANS NOR MENTIONED IN THE SPECIFICATIONS.
6. ALL SERVICE ENTRANCE EQUIPMENT SUCH AS PANEL BOARD CIRCUIT BREAKER ETC. SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODES.
7. THE POWER SOURCE SHALL BE SINGLE PHASE 2–WIRE, 220 VOLTS, 60 Hz, AC.
8. ALL DEVICES SHALL BE INSTALLED AT THE FOLLOWING HEIGHT ABOVE THE FINISHED FLOOR LEVEL UNLESS OTHERWISED NOTED:

a) WALL SWITCHES 1200 mm FROM THE CENTER OF DEVICE TO FINISHED FLOOR LINE

b) DUPLEX CONVENIENCE OUTLET MIN. OF 300 mm FROM CENTER OF DEVICE TO FINISHED FLOOR LINE

c) PANEL BOARD 1680 mm FROM TOP OF PANEL TO FINISHED FLOOR LINE
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

LOADS SCHEDULE

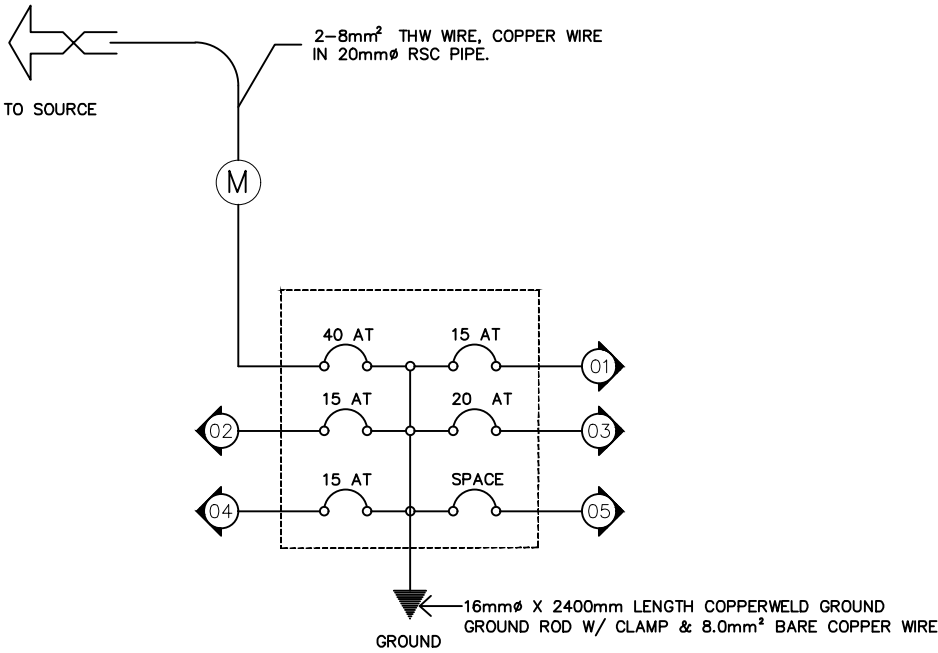
CIRCUIT No.	DESCRIPTION	QTY.	VI	V	I	CIRCUIT BREAKER			HOMERUN (PVC PIPE (PNS 14))
						AF	P	AT	
01	LIGHT OUTLET	8	440	220	2.0	50	2	15	2 – 3.5 mm ² THHN COPPER WIRE IN 20mmØ
02	LIGHT OUTLET	5	875	220	3.98	50	2	20	2 – 3.5 mm ² THHN COPPER WIRE IN 20mmØ
03	CONVENIENCE OUTLET	2	720	220	3.27	50	2	20	2 – 3.5 mm ² THHN COPPER WIRE IN 20mmØ
04	SPACE		1000						
TOTAL	TOTAL	15	4,035		18.35				

LOAD COMPUTATION

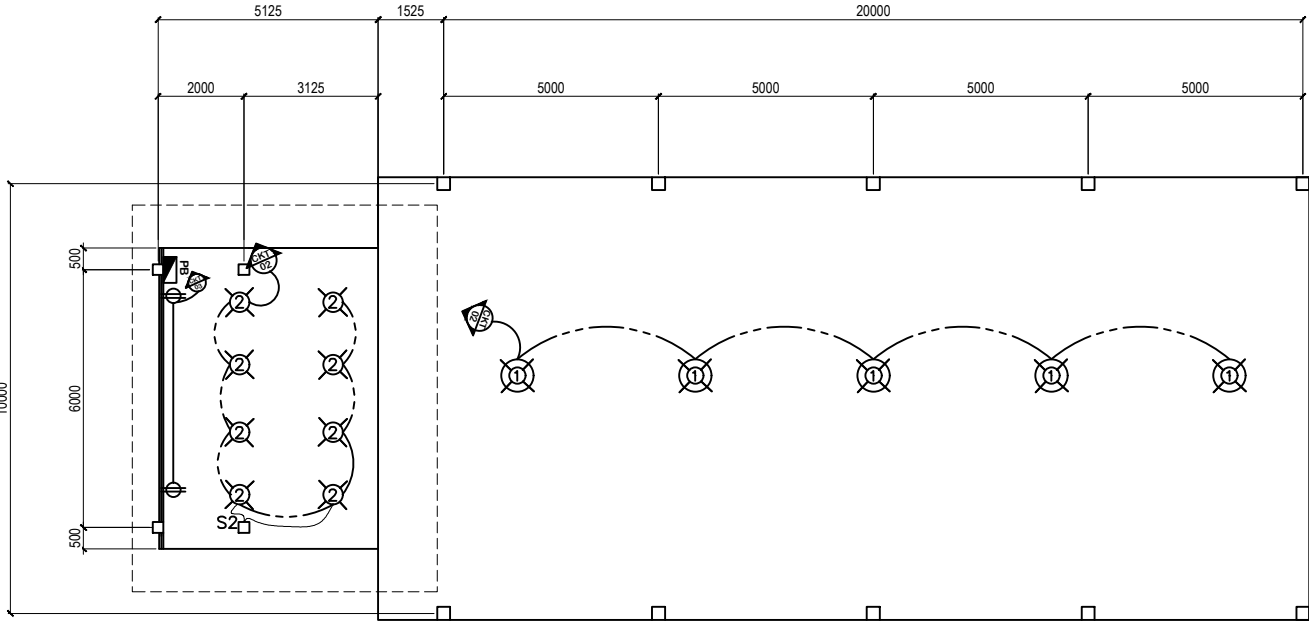
$I_T @ 80\% = \frac{4035 (0.80)}{220} = 14.67 \text{ AMP}$

USE = 2 – 8mm² THW COPPER WIRE IN 20MMØ RSC PIPE

USE = 1–40 AT CB, 2P, 240 VAC, 60 HZ.
MAIN CIRCUIT BREAKER



	LEGEND
MARK	DESCRIPTION
	PANEL BOARD
	CIRCUIT HOMERUN.
	CIRCUIT LINE
	1–125 WATTS COMPACT FLUORESCENT LAMP W/ 21" Ø REFLECTOR W/ 20mm Ø X 500mm L.E. G.I. PIPE
	6"Ø PINLIGHT W/ ALUMINUM REFLECTOR & 20 W CFL
	DUPLEX CONVENIENCE OUTLET(F.M.)
S ₂	2–GANG WALL SWITCH (F.M.)
S ₂ (WP)	2–GANG WALL SWITCH WEATHER PROOF PLATE COVER & UTILITY BOX(METAL)
	SWITCH LINE



ELECTRICAL LAYOUT PLAN
SCALE: 1:1000mm

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER CITY OF MATI, DAVAO ORIENTAL	PROJECT NAME / LOCATION:	SHEET CONTENTS:	DRAWN BY:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO.
	CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF MULTI-PURPOSE BUILDING, MATI CITY, DAVAO ORIENTAL	ELECTRICAL LAYOUT PLAN SINGLE LINE DIAGRAM LOAD SCHEDULE LOAD COMPUTATION ELECTRICAL NOTES	PETER A. PULIDO	ROGELIO J. BATITANG	BEVERLY M. MAGLANGIT	FIDELA M. BISEN	JANE D. CAINGHOG	9 9
	1,22 CONSTRUCTION OF ACTIVITY CENTER 10 X 20m. (COMPLETE) AT AGUINALDO ES, BRGY.SUROP, GOVERNOR GENEROSO, DAVAO ORIENTAL		ENGINEERING ASSISTANT	ENGINEER II	ENGINEER III CHIEF PLANNING SECTION	ASST. DISTRICT ENGINEER	DISTRICT ENGINEER	



Republic of the Philippines

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
CITY OF MATI, DAVAO ORIENTAL

CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF
MULTI-PURPOSE BUILDING, MATI CITY, DAVAO ORIENTAL

1.23.CONSTRUCTION OF TWO (2) BAY BLEACHERS WITH CANOPY BOTHSIDES,
AT PUNDAGUITAN NHS BRGY.PUNDAGUITAN, GOVERNOR GENEROSO, DAVAO
ORIENTAL

PREPARED BY:

TESSIE I. ARANJUEZ
ENGINEER II

CHECKED BY:

BEVERLY M. MAGLANGIT
ENGINEER III
CHIEF PLANNING SECTION

RECOMMENDING APPROVAL:

FIDELA M. BISEN
ENGINEER III
ASST. DISTRICT ENGINEER

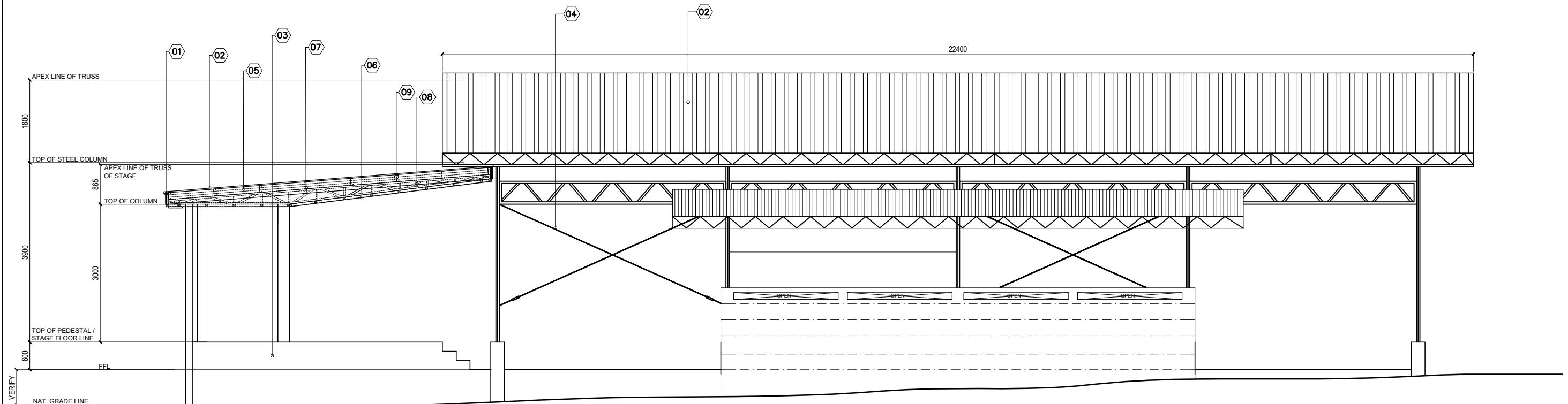
APPROVED BY:

JANE D. CAINGHOG
DISTRICT ENGINEER

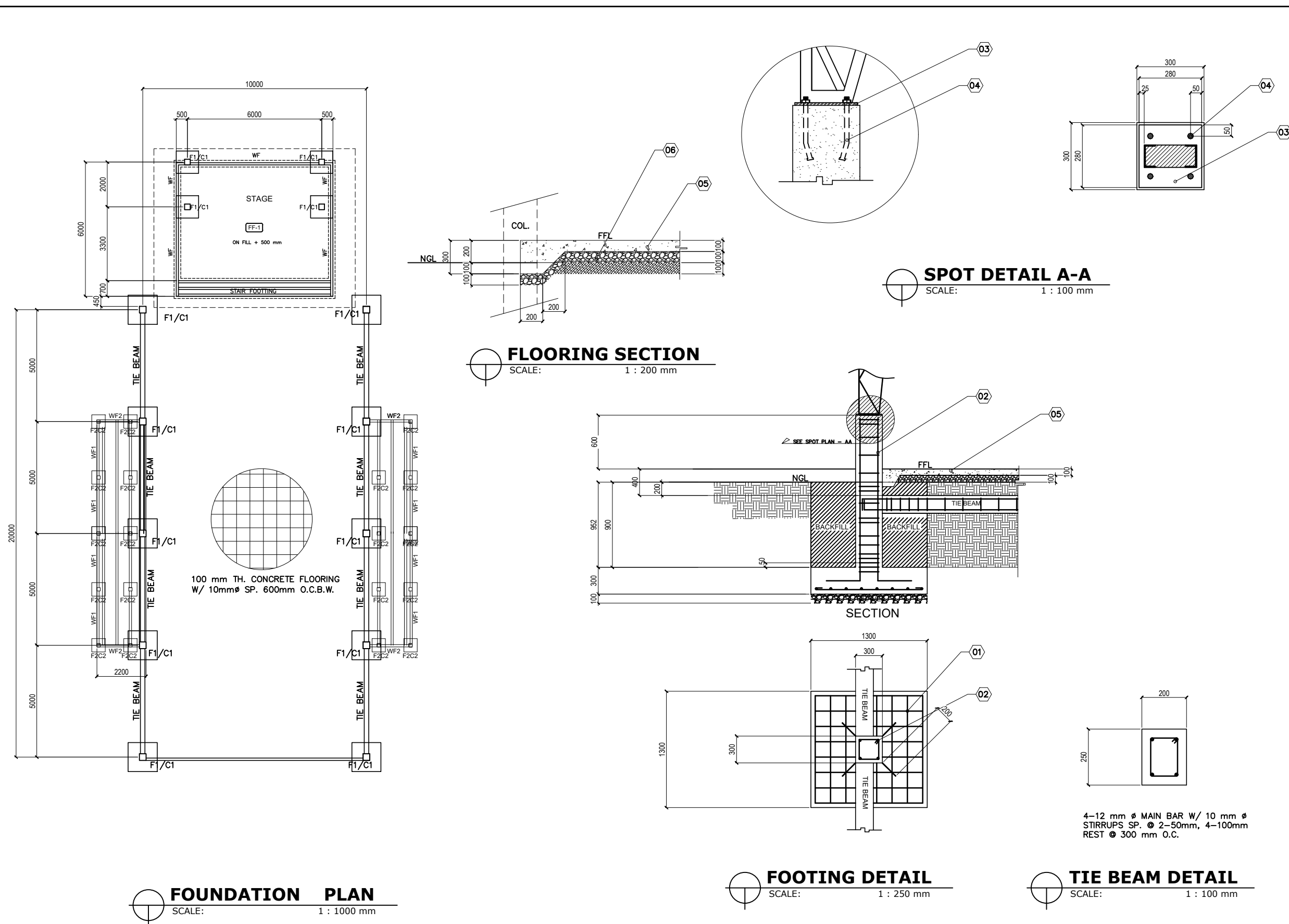


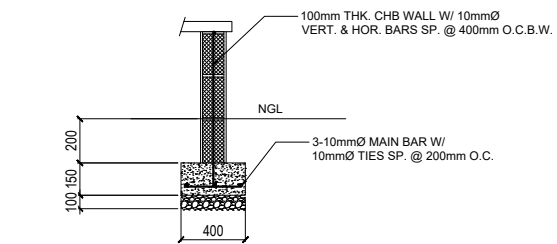
TYPICAL SIDE ELEVATION

SCALE: 1 : 500 mm

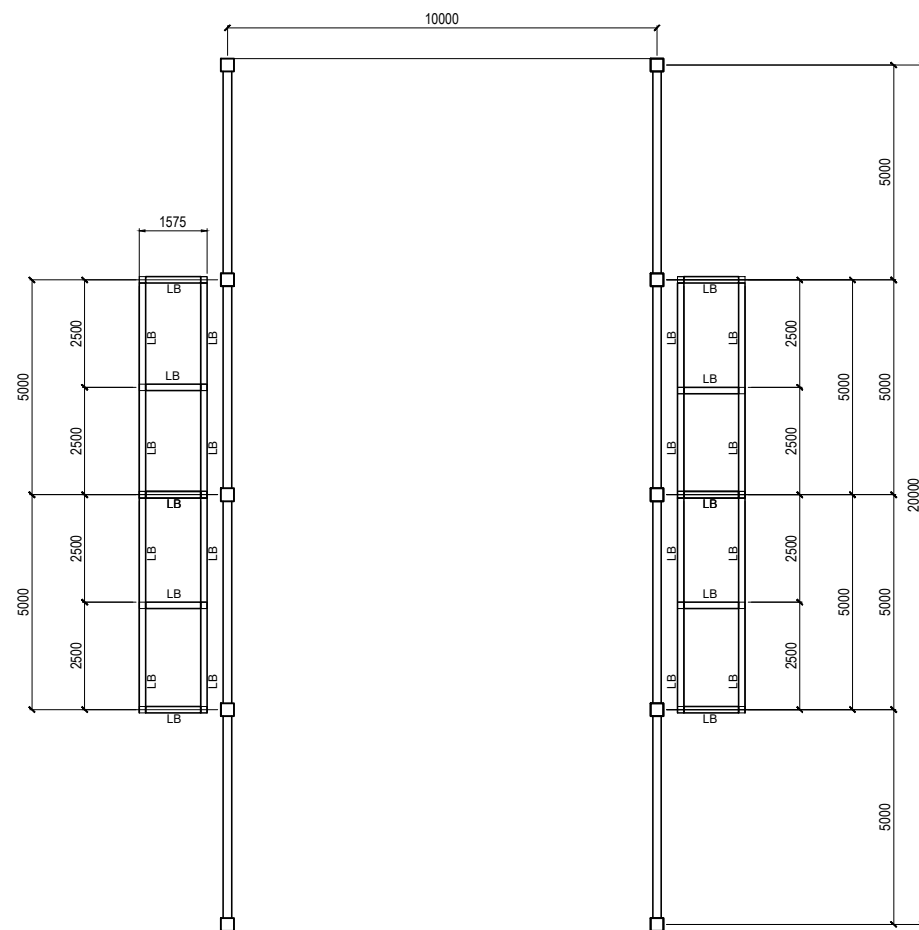


 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER CITY OF MATI, DAVAO ORIENTAL	PROJECT NAME / LOCATION:	SHEET CONTENTS:	DRAWN BY:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO.
	CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF MULTI-PURPOSE BUILDING, MATI CITY, DAVAO ORIENTAL	FLOOR PLAN TYPICAL SIDE ELEVATION						2 9
	1.23.CONSTRUCTION OF TWO (2) BAY BLEACHERS WITH CANOPY BOTHSIDES. AT PUNDAGUITAN NHS BRGY.PUNDAGUITAN, GOVERNOR GENEROSO, DAVAO ORIENTAL		CRISJOHN T. SUNGAHID ENGINEER I	TESSIE I. ARANJUEZ ENGINEER II	BEVERLY M. MAGLANGIT ENGINEER III CHIEF PLANNING SECTION	FIDELA M. BISEN ASST. DISTRICT ENGINEER	JANE D. CAINGHOG DISTRICT ENGINEER	





DETAIL WF2
SCALE: 1 : 200 mm



Technical drawing of a reinforced concrete beam. The main view shows a side elevation of the beam with a length of 1200 mm and a height of 200 mm. It features 2-12mm diameter reinforcement bars at the top and 10mm diameter ties spaced at 200mm on center. A detail view on the right shows a cross-section of the beam with a width of 150 mm and a height of 200 mm, indicating the placement of the reinforcement bars.

2-10mmØ REINF. BARS W/ 10mmØ TIES SP. @ 200mm O.C.

4-12mmØ MAIN BAR W/ 10mmØ TIES SP. @ 1-50,3-100,3-150mm REST 200mm O.C.

10mmØ LATERAL BARS W/

75mmØ PVC DOWNSPOUT

10mmØ MATTING BARS 3-LATERAL BAR W/TIES SP. 300mm O.C.

100mm THK. CONCRETE SLAB W/ 10mmØ RSB @ 400mm O.C.B.W.

8-12mmØ BED BARS

150mm THK. CHB WALL W/ 10mmØ VERT. & HOR. BARS SP. @ 6-40m. BOTHWAYS

COMPACTED EMBANKMENT

4-12mmØ MAIN W/ 10mmØ TIES SP. @ 1-50,2-100, & REST 150mm O.C.

600 200 200 600

600 200 200 600

1450 150 200 75 550 100 550 100 350 350 480 200 150 400

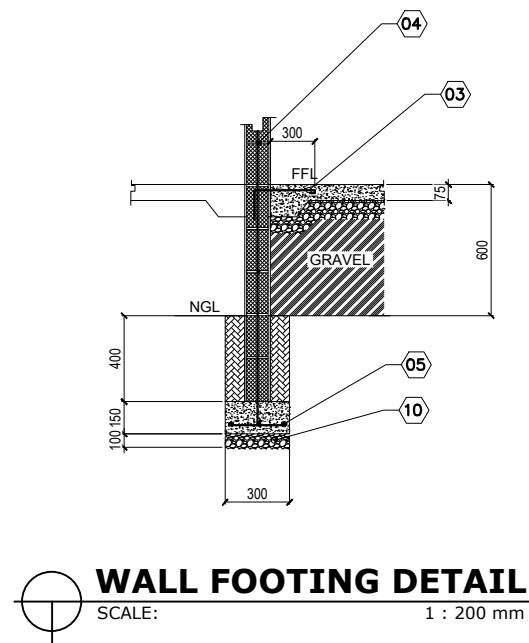
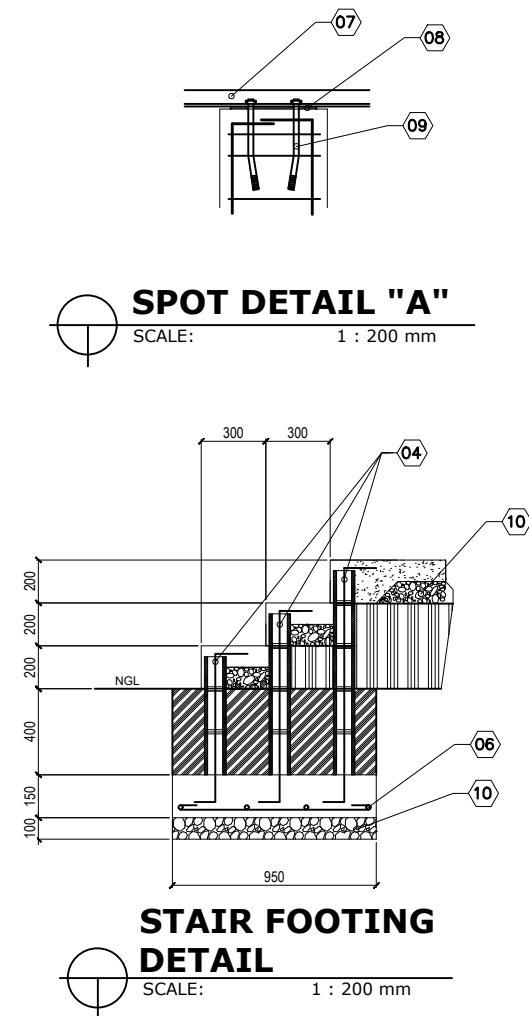
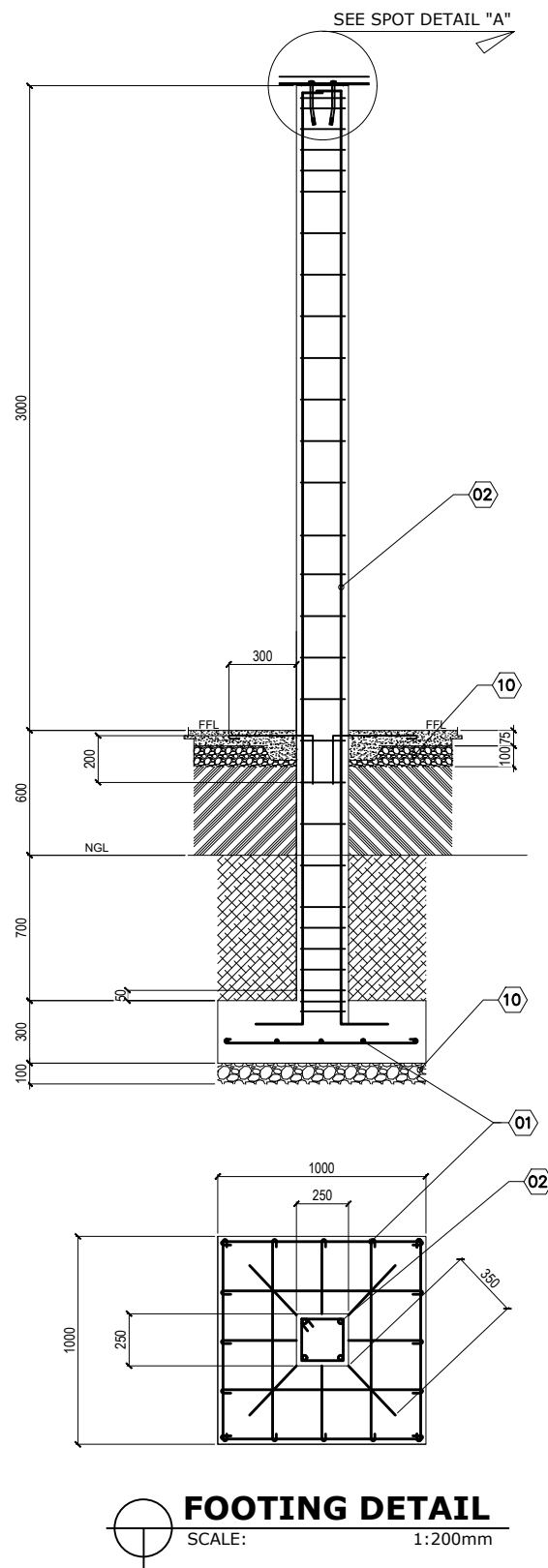
75 275 50 550 100 75 100 50 100 75 100 75 100 75

RE LB

CB

 **DETAIL OF F1C1/WALL FOOTING**
SCALE 1 : 200 mm

$$\frac{4a}{9}$$



SPECIFICATIONS

MARK	DESCRIPTION
01	10-12 mm ϕ BEDBARS SPACE AS SHOWN
02	4-12 mm ϕ VERTICAL RSB W/ 10mm ϕ TIES SP. ϕ 1-50mm, 4-100mm, REST ϕ 200 mm
03	10 mm ϕ DOWEL BAR SP. ϕ 300 mm O.C.
04	100 mm THK. CHB WALL W/ 10 mm ϕ VERT. & HOR. BARS SP. ϕ 600 mm O.C. B.W.
05	3-12 mm ϕ LONG BAR W/ 10 mm ϕ TIES SP. ϕ 300 mm O.C.
06	4-12 mm ϕ LONG BAR W/ 10 mm ϕ TIES SP. ϕ 300 mm O.C.
07	2-4.5 mm X 38mm X 38 mm ANGLE BAR BOTTOM CHORD
08	16mm X 230mm X 230 mm MS BASE PLATE
09	4-16mm ϕ X 300mm ANCHOR BOLT W/ NUTS WASHER
10	100mm thk GRAVEL BASE



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
CITY OF MATI, DAVAO ORIENTAL

PROJECT NAME / LOCATION:

CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF MULTI-PURPOSE BUILDING, MATI CITY, DAVAO ORIENTAL
1.23. CONSTRUCTION OF TWO (2) BAY BLEACHERS WITH CANOPY BOTHSIDES, AT PUNDAGUITAN NHS BRGY. PUNDAGUITAN, GOVERNOR GENEROSO, DAVAO ORIENTAL

SHEET CONTENTS:

FOUNDATION PLAN
FOOTING/COLUMN DETAIL
WALL FOOTING DETAIL
STAIR FOOTING DETAIL

DRAWN BY:

CRISJOHN T. SUNGAHID
ENGINEER I

PREPARED BY:

TESSIE I. ARANJUEZ
ENGINEER II

CHECKED BY:

BEVERLY M. MAGLANGIT
ENGINEER III
CHIEF PLANNING SECTION

RECOMMENDING APPROVAL:

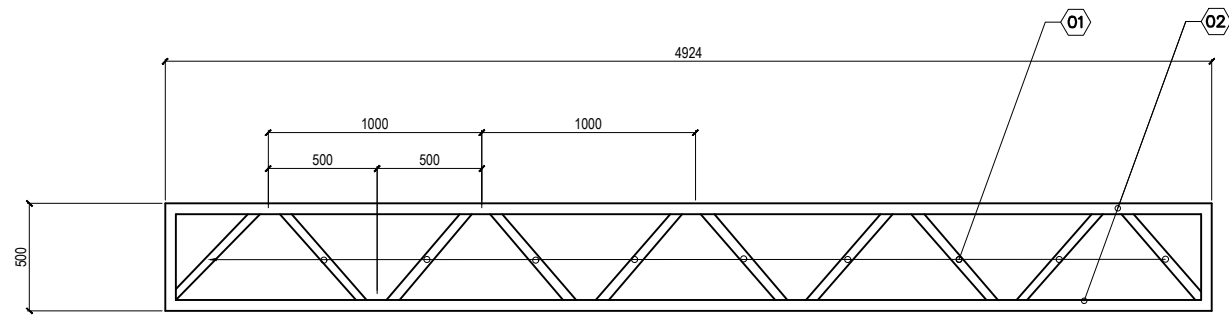
FIDELA M. BISEN
ASST. DISTRICT ENGINEER

APPROVED BY:

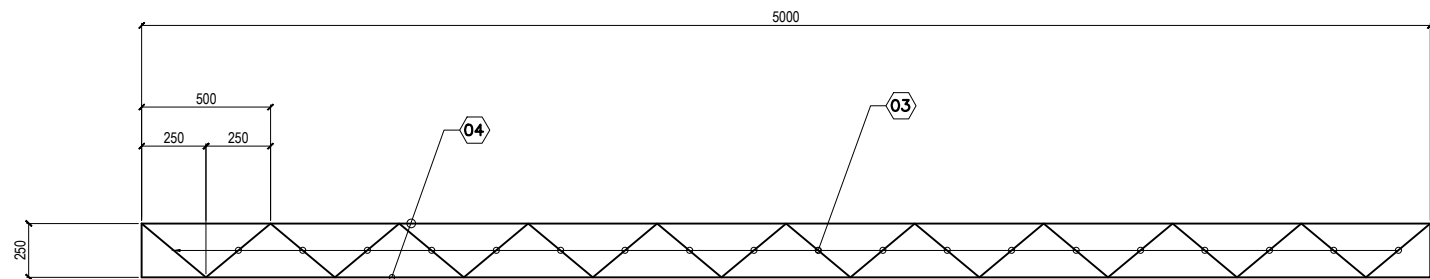
JANE D. CAINGHOG
DISTRICT ENGINEER

SHEET NO.

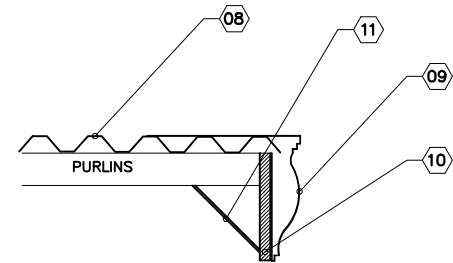
5
9



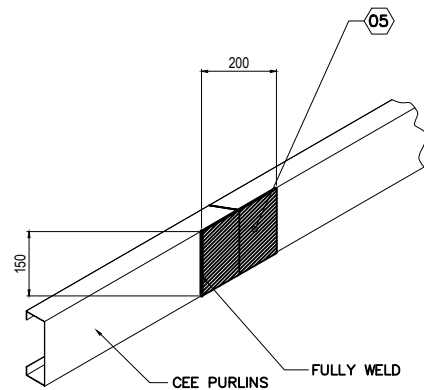
STEEL STRUTT DETAIL
SCALE: 1 : 200 mm



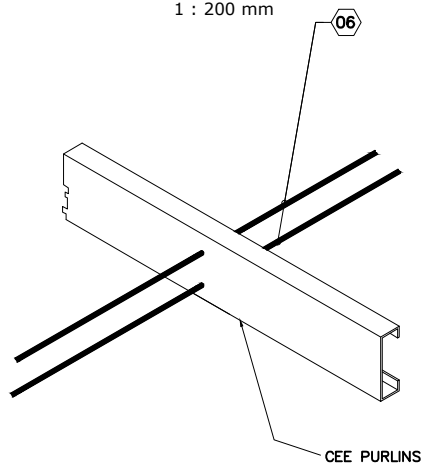
STEEL FASCIA RUNNER DETAIL
SCALE: 1 : 200 mm



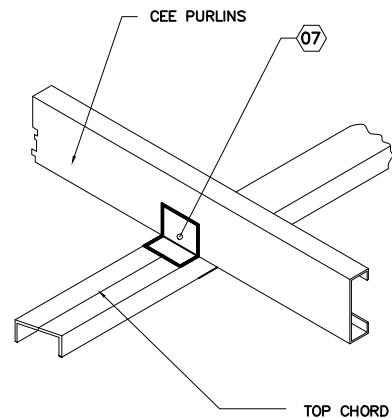
DETAIL OF FLASHING
SCALE: 1 : 200 mm



PURLINS SPLICE PLATE DETAIL
SCALE: 1 : 100 mm



DETAIL OF PURLINS & SAG ROD CONNECTION
SCALE: 1 : 100 mm



DETAIL OF PURLINS & TOP CHORD CONNECTION
SCALE: 1 : 100 mm

SPECIFICATIONS

MARK	DESCRIPTION
01	4.5mm thk X 38mm X 38mm ANGLE BAR WEB MEMBER
02	4.5mm thk X 38mm X 38mm ANGLE BAR TOP & BOTTOM CHORD
03	4.5 mm THK. X 25 mm FLAT BAR WEB MEMBER
04	4.5 mm X 25 mm 25 mm ANGLE BAR FRAME
05	5 mm X 150 mm X 200 mm PURLINS SPLICE PLATE
06	2 -10mm ϕ PLAIN ROUND BAR SAG ROD
07	4.5 mm X 38 mm X 38 mm CLEATS
08	0.400mm PRE-PAINTED RIB TYPE ROOFING
09	0.600mm PRE-PAINTED FLASHING ON STEEL FASCIA RUNNER
10	STEEL FASCIA RUNNER (SEE DET.)
11	10mm ϕ PLAIN ROUND BAR



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
CITY OF MATI, DAVAO ORIENTAL

PROJECT NAME / LOCATION:

CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF MULTI-PURPOSE BUILDING, MATI CITY, DAVAO ORIENTAL
1.23. CONSTRUCTION OF TWO (2) BAY BLEACHERS WITH CANOPY BOTH SIDES, AT PUNDAGUITAN NHS BRGY. PUNDAGUITAN, GOVERNOR GENEROSO, DAVAO ORIENTAL

SHEET CONTENTS:

STEEL STRUTT GIRT DETAIL
STEEL FASCIA DETAIL
PURLINS SPLICE PLATE DETAIL
DETAIL OF PURLINS & SAG ROD CONNECTION
DETAIL OF PURLINS & TOP CHORD CONNECTION
DETAIL OF FLASHING
DETAIL OF GUTTER

DRAWN BY:

CRISJOHN T. SUNGAHID
ENGINEER I

PREPARED BY:

TESSIE I. ARANJUEZ
ENGINEER II

CHECKED BY:

BEVERLY M. MAGLANGIT
ENGINEER III
CHIEF PLANNING SECTION

RECOMMENDING APPROVAL:

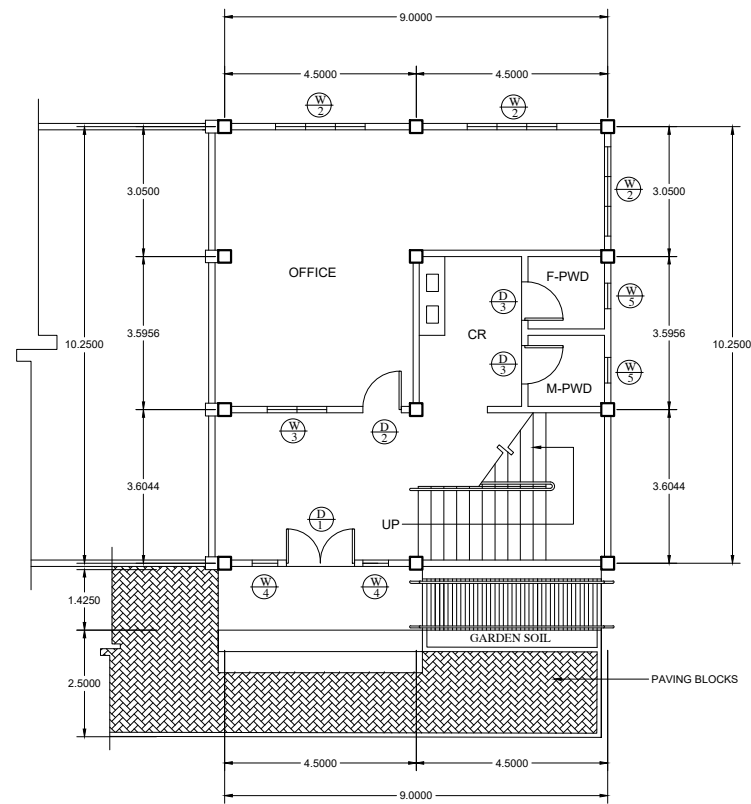
FIDELA M. BISEN
ASST. DISTRICT ENGINEER

APPROVED BY:

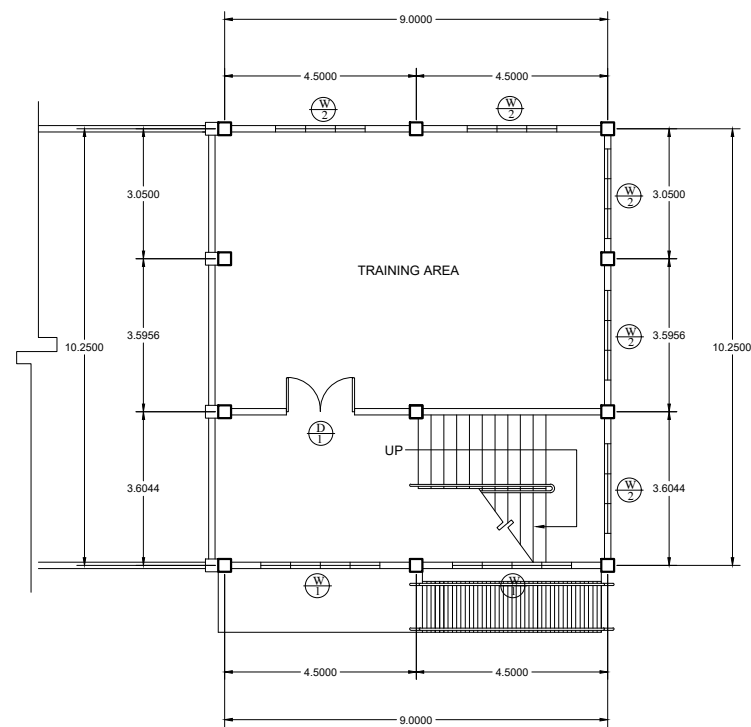
JANE D. CAINGHOG
DISTRICT ENGINEER

SHEET NO.

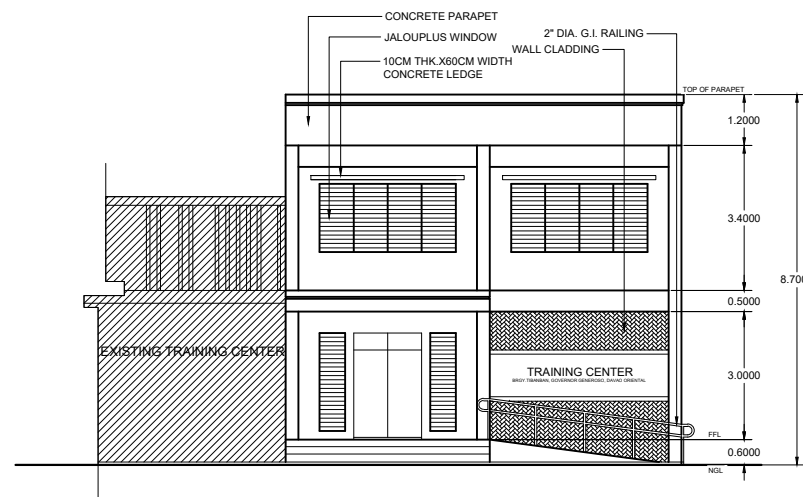
7
9



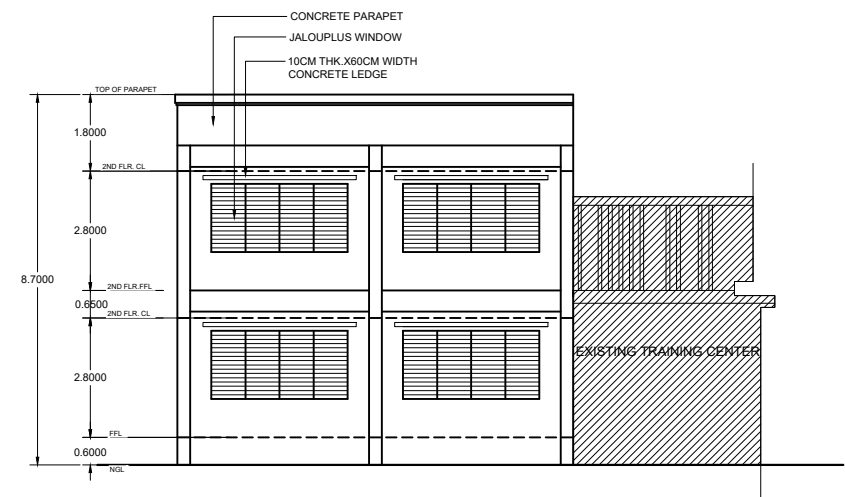
GROUND FLOOR PLAN
SCALE: 1 : 100 MTS.



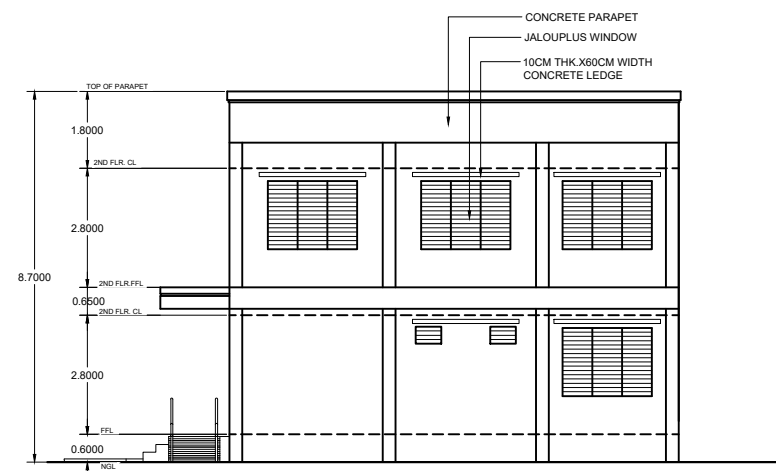
SECOND FLOOR PLAN
SCALE: 1 : 100 MTS.



LEFT SIDE ELEVATION
SCALE: 1 : 100 MTS.



REAR ELEVATION
SCALE: 1 : 100 MTS.



FRONT ELEVATION
SCALE: 1 : 100 MTS.

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE DISTRICT ENGINEER CITY OF MATI, DAVAO ORIENTAL	PROJECT NAME / LOCATION: CONSTRUCTION/REPAIR/REHABILITATION/IMPROVEMENT OF MULTI PURPOSE BUILDING IN MUNICIPALITY OF GOVERNOR GENEROSO, DAVAO ORIENTAL REPAIR/REHAB. OF TRAINING CENTER BRGY. TIBANBAN, GOVERNOR GENEROSO, DAVAO ORIENTAL	SHEET CONTENTS: GROUND FLOOR PLAN SECOND FLOOR PLAN FRONT ELEVATION RIGHT SIDE ELEVATION REAR ELEVATION	DRAWN BY: CARMELO B. FULLO ARCHITECT I	PREPARED BY: TESSIE I. ARANJUEZ ENGINEER II	CHECKED BY: BEVERLY M. MAGLANGIT ENGINEER III CHIEF PLANNING SECTION	RECOMMENDING APPROVAL: FIDELA M. BISEN ASST. DISTRICT ENGINEER	APPROVED BY: JANE D. CAINGHOG DISTRICT ENGINEER	SHEET NO. 2 7
--	---	---	--	---	--	--	---	---