

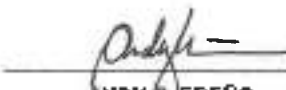


Republic of the Philippines  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
REGIONAL OFFICE No. VIII  
**NORTHERN SAMAR FIRST**  
**DISTRICT ENGINEERING OFFICE**  
Cataman, Northern Samar

C.Y. 2025 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
**CONSTRUCTION OF MULTI-PURPOSE FACILITY (COVERED COURT)**  
**IN BARANGAY SAN JOSE, LAVEZARES, NORTHERN SAMAR**

Location: Lavezares, Northern Samar  
Latitude: 12.514611  
Longitude: 124.361249

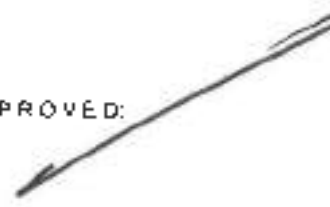
SUBMITTED:

  
ANDY S. ERENO  
CHIEF, PLANNING AND DESIGN SECTION  
Date:

RECOMMENDED:

  
VIVIAN G. BLACO  
ASSISTANT DISTRICT ENGINEER  
Date:

APPROVED:

  
ALVIN A. IGNACIO  
DISTRICT ENGINEER  
Date:

| ITEM NO.                                      | DESCRIPTION                                                   | UNIT  | QUANTITY  | REMARKS |
|-----------------------------------------------|---------------------------------------------------------------|-------|-----------|---------|
| <b>PART B OTHER GENERAL REQUIREMENTS</b>      |                                                               |       |           |         |
| B.3(1)                                        | Permits and Clearances                                        | l.s.  | 1.00      |         |
| B.5(1)                                        | Project Billboard/Signboard (COA Standard Project Billboard)  | each  | 1.00      |         |
| B.5(1)                                        | Project Billboard/Signboard (DPWH Standard Project Billboard) | each  | 1.00      |         |
| B.7(1)                                        | Occupational Safety and Health                                | l.s.  | 1.00      |         |
| B.9(1)                                        | Mobilization/Demobilization                                   | l.s.  | 1.00      |         |
| <b>DIVISION I - GENERAL</b>                   |                                                               |       |           |         |
| <b>PART C EARTHWORK</b>                       |                                                               |       |           |         |
| 800(1)                                        | Clearing and Grubbing                                         | sq.m. | 574.00    |         |
| 803(1)a                                       | Structure Excavation, Common Soil                             | cu.m. | 187.44    |         |
| 804(1)a                                       | Embankment from Structure Excavation (Common Soil)            | cu.m. | 153.85    |         |
| 804(1)b                                       | Embankment from Borrow (Common Soil)                          | cu.m. | 289.65    |         |
| 804(7)                                        | Gravel Fill                                                   | cu.m. | 129.49    |         |
| <b>PART D REINFORCED CONCRETE</b>             |                                                               |       |           |         |
| 900(2)c                                       | Structural Concrete (Class B, 28 days)                        | cu.m. | 116.96    |         |
| 900(1)i                                       | Structural Concrete (Class A, 28 days)                        | cu.m. | 20.85     |         |
| 900(1)c                                       | Structural Concrete, 3000psi (Class A, 28 days)               | cu.m. | 108.55    |         |
| 902(1)a1                                      | Reinforcing Steel (Deformed), Grade 40                        | kg    | 11,622.57 |         |
| 902(1)a2                                      | Reinforcing Steel (Deformed), Grade 60                        | kg    | 28,953.40 |         |
| 903(2)                                        | Formworks and Falseworks                                      | sq.m. | 773.97    |         |
| <b>DIVISION II - BUILDINGS</b>                |                                                               |       |           |         |
| <b>PART E FINISHING AND OTHER CIVIL WORKS</b> |                                                               |       |           |         |
| 411(1)                                        | Paint                                                         | l.s.  | 1.00      |         |
| 1000(1)                                       | Soil Poisoning                                                | L     | 23.00     |         |
| 1001(8)                                       | Sewer Line Works                                              | l.s.  | 1.00      |         |
| 1001(9)                                       | Storm Drainage and Downspout                                  | l.s.  | 1.00      |         |
| 1002(27)                                      | Plumbing Works                                                | l.s.  | 1.00      |         |
| 1002(4)                                       | Plumbing Fixtures                                             | l.s.  | 1.00      |         |
| 1003(1)c2                                     | Ceiling, 6.0 mm, Wood Frame, Marine Plywood                   | sq.m. | 16.52     |         |
| 1004(2)                                       | Finishing Hardware                                            | l.s.  | 1.00      |         |
| 1008(1)c                                      | Aluminum Glass Windows, Awning Type                           | sq.m. | 0.50      |         |
| 1010(1)                                       | Frames, Jambes                                                | Set   | 2.00      |         |
| 1010(2)b                                      | Doors (Wood Panel)                                            | sq.m. | 2.94      |         |
| 1014(1)b2                                     | Prepainted Metal Sheets (Rib Type, Long Span)                 | sq.m. | 684.64    |         |
| 1016(1)a                                      | Waterproofing (Cement-base)                                   | sq.m. | 52.92     |         |
| 1018(1)                                       | Glazed Tiles and Trims                                        | sq.m. | 14.56     |         |
| 1018(2)                                       | Unglazed Tiles                                                | sq.m. | 16.52     |         |
| 1027(1)                                       | Cement Plaster Finish                                         | sq.m. | 634.88    |         |
| 1032(1)a                                      | Painting Works, Masonry/Concrete                              | sq.m. | 784.96    |         |
| 1032(1)c                                      | Painting Works, Steel                                         | sq.m. | 839.05    |         |
| 1038(1)                                       | Reflective Insulation                                         | sq.m. | 585.34    |         |
| 1046(2)a1                                     | CHB Non Load Bearing (including Reinforcing Steel), 100 mm    | sq.m. | 34.56     |         |
| 1046(2)a2                                     | CHB Non Load Bearing (including Reinforcing Steel), 150 mm    | sq.m. | 268.47    |         |
| 1047(3)                                       | Metal Structure Accessories                                   | l.s.  | 1.00      |         |
| 1047(4)b                                      | Metal Structure Accessories, Turnbuckles                      | each  | 40.00     |         |
| 1047(5)a                                      | Metal Structure Accessories, Bolts and Rods                   | kg    | 298.68    |         |
| 1047(5)b                                      | Metal Structure Accessories, Sagrods                          | kg    | 188.81    |         |
| 1047(5)c                                      | Metal Structure Accessories, Cross Bracing                    | kg    | 845.17    |         |
| 1047(5)d                                      | Metal Structure Accessories, Steel Plates                     | kg    | 2,588.01  |         |
| 1047(8)a                                      | Structural Steel, Trusses                                     | kg    | 12,502.95 |         |
| 1047(8)b                                      | Structural Steel, Purlins                                     | kg    | 8,907.40  |         |
| <b>PART F ELECTRICAL</b>                      |                                                               |       |           |         |
| 1100(10)                                      | Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)   | l.s.  | 1.00      |         |
| 1101(33)                                      | Wires and Wiring Devices                                      | l.s.  | 1.00      |         |
| 1102(1)                                       | Panelboard with Main & Branch Breakers                        | l.s.  | 1.00      |         |
| 1102(18)a1                                    | Generator (Single or Three phase), Stand - by                 | l.s.  | 1.00      |         |
| 1103(1)                                       | Lighting Fixtures                                             | l.s.  | 1.00      |         |



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
 REGIONAL OFFICE NO. 10  
**NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE**  
 CAGAYAN, CAGAYAN CITY

PROJECT NAME & LOCATION

CONSTRUCTION OF MULTI-PURPOSE FACILITY,  
 COVERED COURT BARRANGAY SAN JOSE,  
 LAYAGARSA, NORTHERN SAMAR  
 LAYAGARSA, NORTHERN SAMAR

SHEET CONTENTS

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DESIGNED

BARTOLOME C. LUCIANO  
 CIVIL ENGINEER  
 PRC No. 10111

REVIEWED

ALVIN A. IGNACIO  
 CIVIL ENGINEER  
 PRC No. 10111

SUBMITTED

JOY S. ENERO  
 CIVIL ENGINEER  
 PRC No. 10111

RECOMMENDED BY

ALVIN A. IGNACIO  
 CIVIL ENGINEER  
 PRC No. 10111

APPROVED

ALVIN A. IGNACIO  
 CIVIL ENGINEER  
 PRC No. 10111

SET NO.

500

SHEET NO.

2/42



Republic of the Philippines  
DEPARTMENT OF PUBLIC  
WORKS AND HIGHWAYS

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

LAND USE AND ZONING

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

LINE AND GRADE

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

ARCHITECTURAL

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

SUMMARY

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

STRUCTURAL

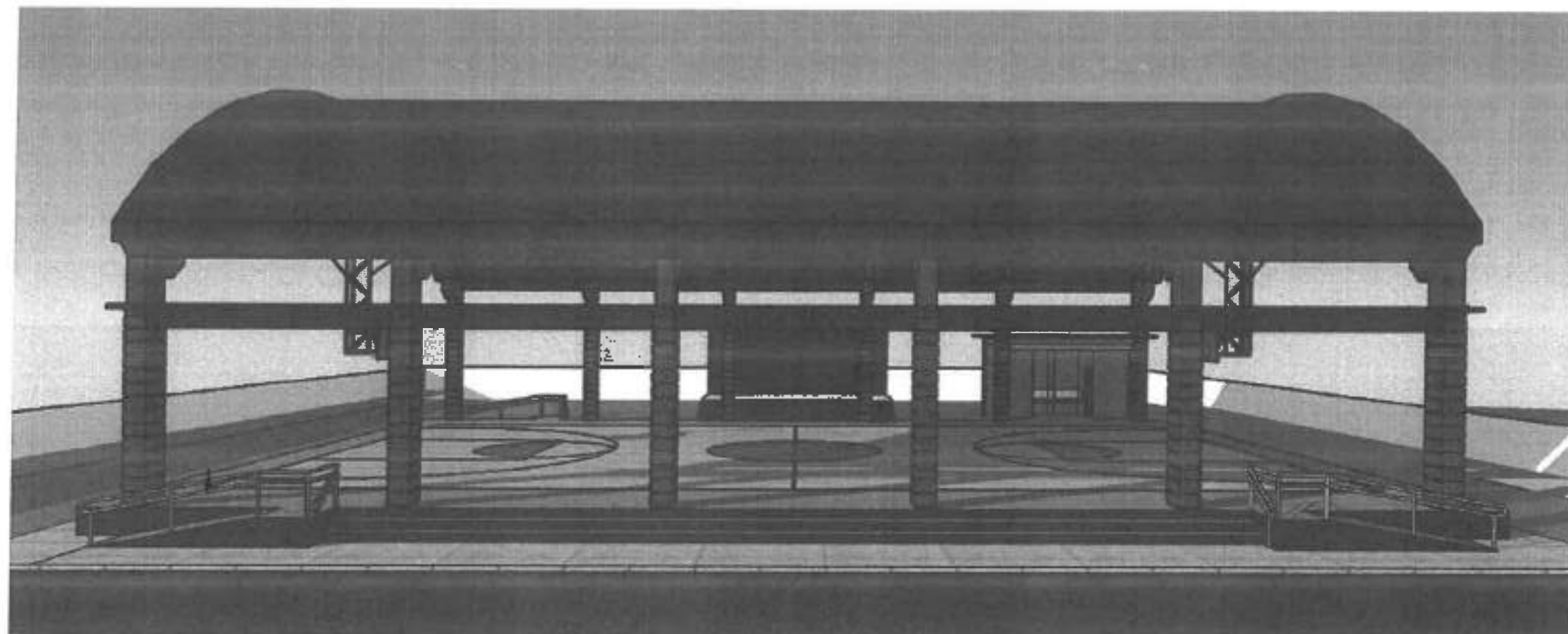
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MECHANICAL

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

ELECTRICAL

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_



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A-1 SCALE NTS

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| A-95 FRONT SIDE ELEVATION   | S-95 DETAIL OF JOINT            | P-95 DETAIL OF JOINT       | E-95 DETAIL OF JOINT    |                 |            |                                             |
| A-96 REAR SIDE ELEVATION    | S-96 DETAIL OF JOINT            | P-96 DETAIL OF JOINT       | E-96 DETAIL OF JOINT    |                 |            |                                             |
| A-97 LEFT SIDE ELEVATION    | S-97 DETAIL OF JOINT            | P-97 DETAIL OF JOINT       | E-97 DETAIL OF JOINT    |                 |            |                                             |
| A-98 RIGHT SIDE ELEVATION   | S-98 DETAIL OF JOINT            | P-98 DETAIL OF JOINT       | E-98 DETAIL OF JOINT    |                 |            |                                             |
| A-99 LONGITUDINAL SECTION   | S-99 DETAIL OF JOINT            | P-99 DETAIL OF JOINT       | E-99 DETAIL OF JOINT    |                 |            |                                             |
| A-100 CROSS SECTION         | S-100 DETAIL OF JOINT           | P-100 DETAIL OF JOINT      | E-100 DETAIL OF JOINT   |                 |            |                                             |

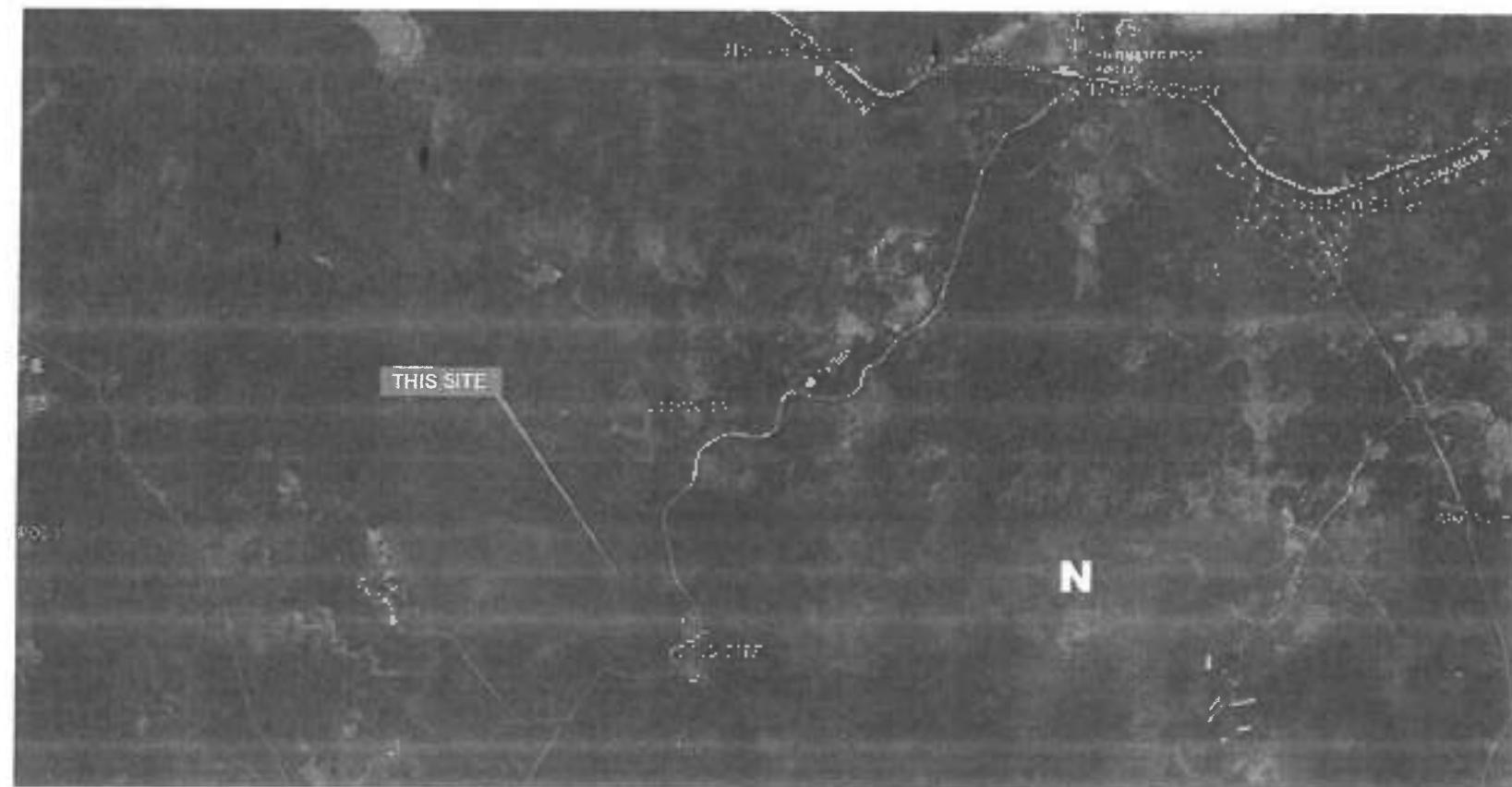


# **FIRST ENGINEERING OFFICE LOCATION MAP**

1  
A-2 SCALE: NTS



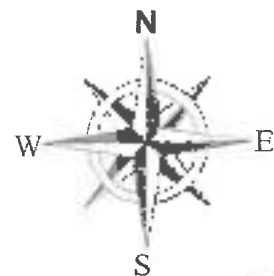
## 3 **GEOTAGGED PHOTOGRAPH** A-2 SCALE: NTS



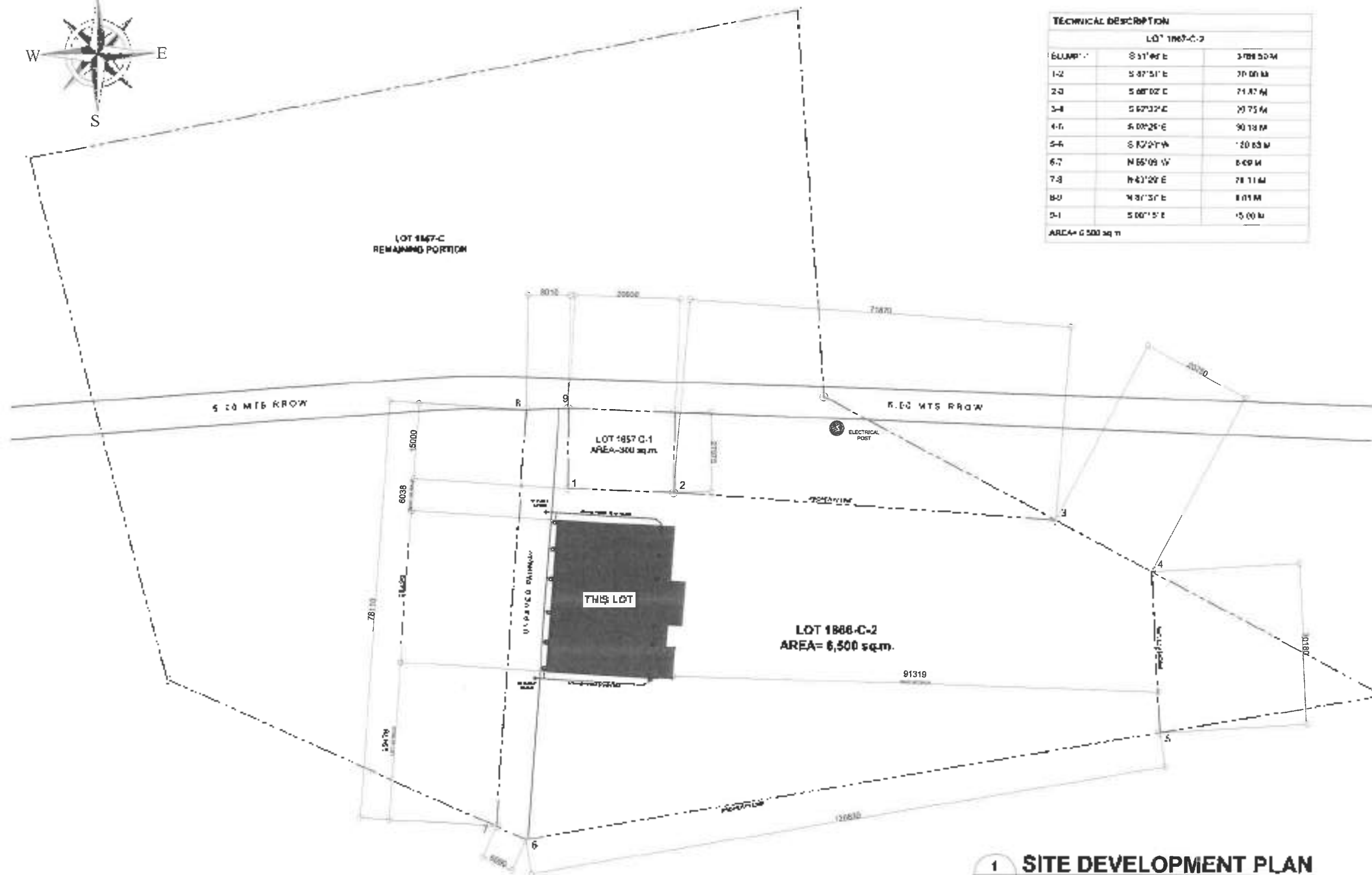
## 2 **VICINITY MAP** A-2 SCALE: NTS

|                                                                                                                                                                                                                                                        |                                                                                                                                                               |                                                                                             |                                                                                                                                                              |                                                                                                                                                           |                                                                                                                                                              |                                                                                                                                                                |                                                                                                                                                            |                             |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|
|  <p>Department of Public Works and Highways<br/>Regional Office No. VII<br/><b>NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE</b><br/>Calapan, Northern Samar</p> | <p><b>PROJECT NAME &amp; LOCATION</b></p> <p>CONSTRUCTION OF MULTI-PURPOSE FACILITY,<br/>(COVERED COURT) BARANGAY SAN JOSE,<br/>LAVEZAROS, NORTHERN SAMAR</p> | <p><b>DRAFT CONTENTS:</b></p> <p>LOCATION MAP<br/>VICINITY MAP<br/>GEOTAGGED PHOTOGRAPH</p> | <p><b>DESIGNED:</b></p> <p><br/>MARCELO N. BAYAN<br/>Civil Engineer</p> | <p><b>REVIEWED:</b></p> <p><br/>ANDY S. BAYAN<br/>Civil Engineer</p> | <p><b>DISAPPROVED:</b></p> <p><br/>ANDY S. BAYAN<br/>Civil Engineer</p> | <p><b>RECOMMENDED:</b></p> <p><br/>VIVIAN B. BAYAN<br/>Civil Engineer</p> | <p><b>APPROVED:</b></p> <p><br/>ALVIN A. BAYAN<br/>Civil Engineer</p> | <p>SHEET No.</p> <p>A-2</p> | <p>SHEET No.</p> <p>42</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|





| TECHNICAL DESCRIPTION |             |           |
|-----------------------|-------------|-----------|
| LOT 1867-C-2          |             |           |
| BLUMP 1-1             | S 31° 40' E | 3788.50 M |
| 1-2                   | S 87° 51' E | 30.00 M   |
| 2-3                   | S 68° 02' E | 71.87 M   |
| 3-4                   | S 67° 32' E | 70.75 M   |
| 4-5                   | S 08° 26' E | 90.18 M   |
| 5-6                   | S 10° 21' W | 120.83 M  |
| 6-7                   | N 65° 09' W | 8.49 M    |
| 7-8                   | N 43° 20' E | 78.11 M   |
| 8-9                   | N 31° 31' E | 8.01 M    |
| 9-1                   | S 00° 15' E | 15.00 M   |
| AREA= 6,500 sq. m     |             |           |



**1 SITE DEVELOPMENT PLAN**  
 1:1000M TS



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
 REGIONAL OFFICE NO. 1  
**NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE**  
 Calbayog, Marikina Springs

PROJECT NAME & LOCATION  
**CONSTRUCTION OF MULTIPURPOSE FACILITY,  
 (COVERED COURT, BARRANGAY SAN JOSE,  
 LAVALAR, NORTHERN SAMAR**  
 - LUPAT, Northern Samar

SHEET CONTENTS:  
 SITE DEVELOPMENT PLAN

DESIGNED:  
  
**ENR. J. L. LUCIANO**  
 ARCHITECT

REVIEWED:  
  
**MR. J. L. LUCIANO**  
 ARCHITECT

SUBMITTED BY:  
  
**ANDY B. BERNARD**  
 CIVIL ENGINEER

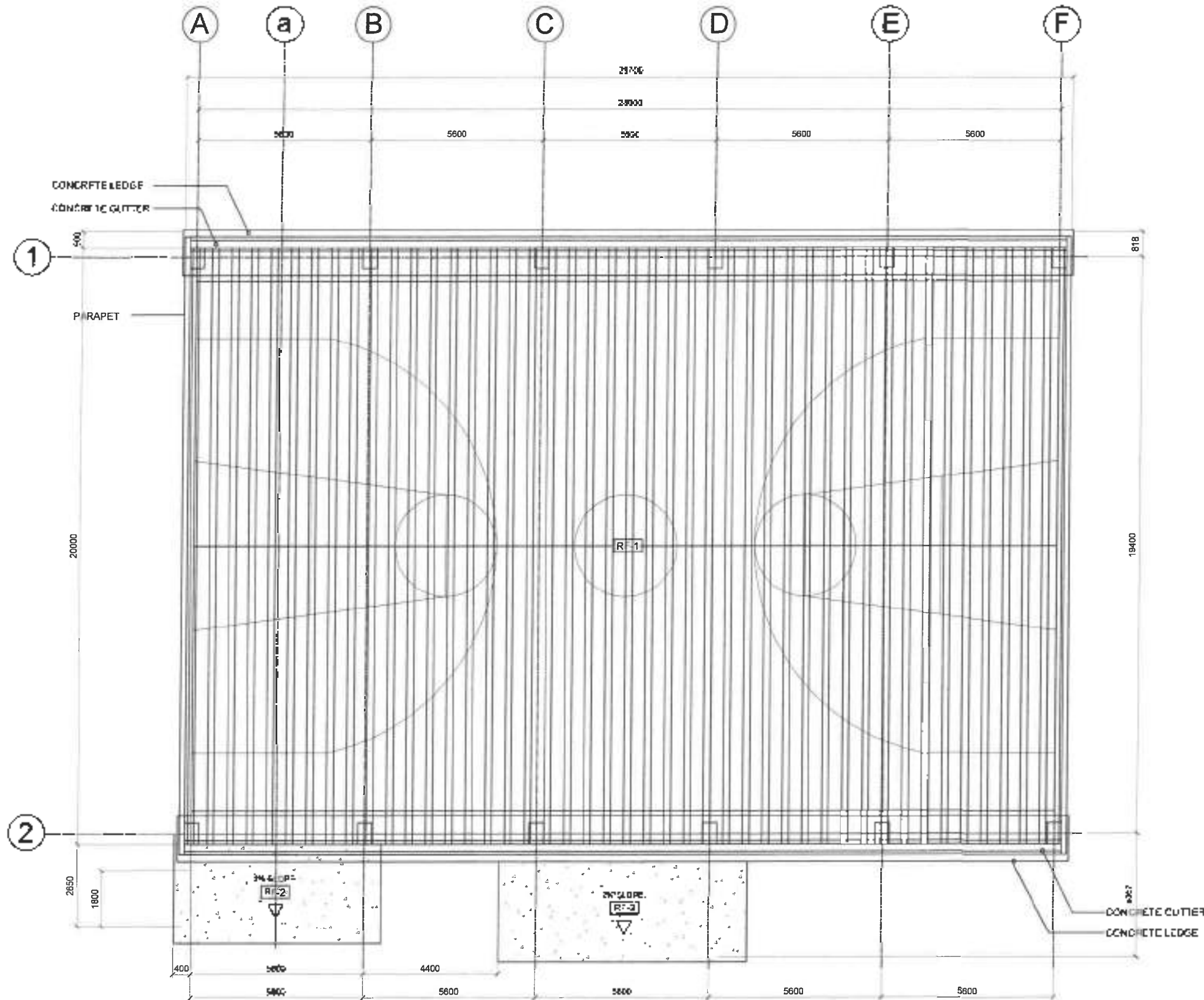
RECOMMENDED:  
  
**VIVIAN A. BERNARD**  
 CIVIL ENGINEER

APPROVED:  
  
**ALVIN A. BERNARD**  
 CIVIL ENGINEER

SHEET NO.  
**5**  
 OF  
**42**



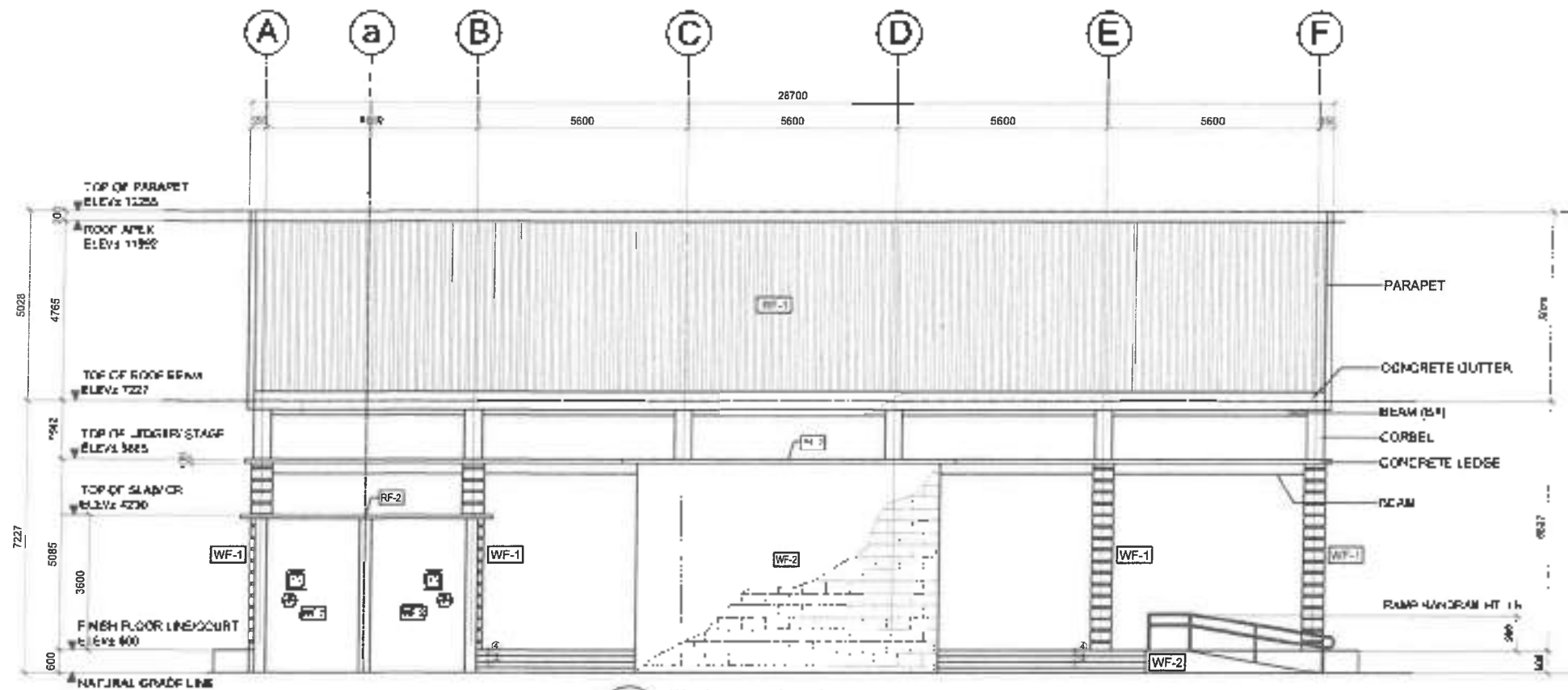




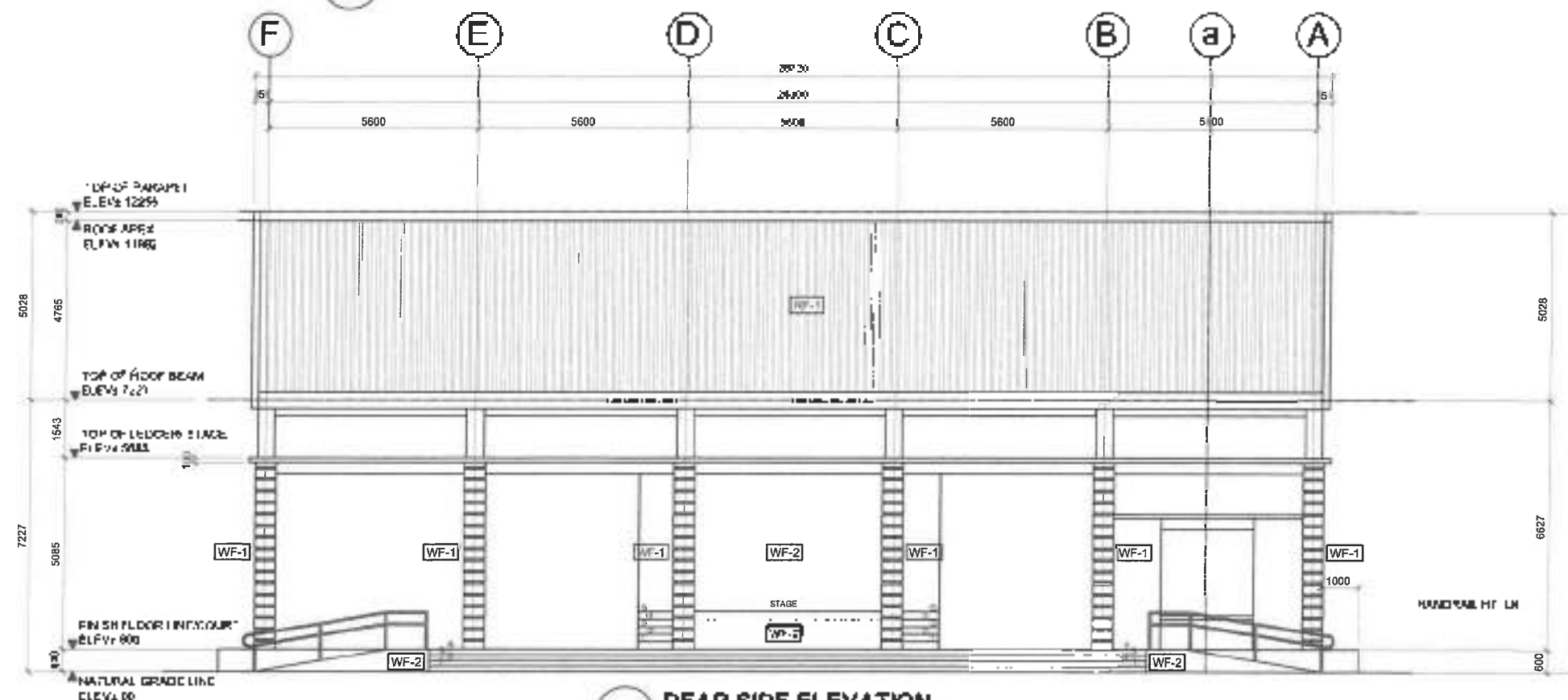
1 ROOF PLAN  
A-6 SCALE 1/8"=1'-0"

| SCHEDULE OF MATERIALS |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| ITEM NO.              | DESCRIPTION                                                                                                                         |
| 101                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 102                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 103                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 104                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 105                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 106                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 107                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 108                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 109                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 110                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 111                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 112                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 113                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 114                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 115                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 116                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 117                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 118                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 119                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |
| 120                   | 2" DIA. CONCRETE PARAPET WALLS (4' HIGH) WITH 1" DIA. CONCRETE GUTTER (4' HIGH) (1" DIA. CONCRETE GUTTER) (1" DIA. CONCRETE GUTTER) |





1 FRONT SIDE ELEVATION  
A-7 SCALE: 1:100MTS



2 REAR SIDE ELEVATION  
A-7 SCALE: 1:100MTS



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
LIGAYAN, NORTHERN SAMAR

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE FACILITY  
(COVERED COURT) BARANGAY SAN JOSE,  
LAVEZARIS, NORTHERN SAMAR  
LIGAYAN, NORTHERN SAMAR

54-007 CONTENTS  
FRONT SIDE ELEVATION  
REAR SIDE ELEVATION

DESIGNED:  
JERRY B. BERNARDO  
PROJECT ENGINEER

REVIEWED:  
ALVIN A. EDUARDO  
SENIOR DISTRICT ENGINEER

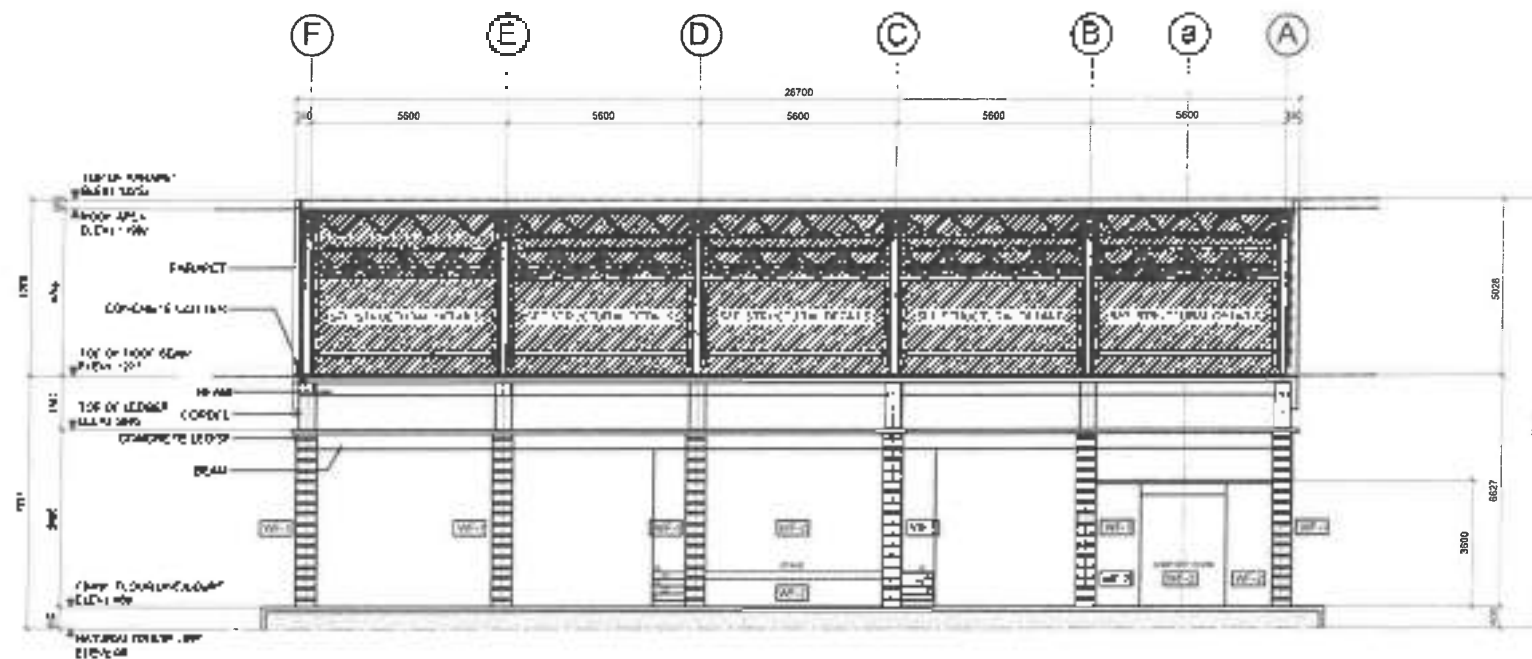
SUBMITTED BY:  
ANDY S. BERNARDO  
PROJECT ENGINEER

RECOMMENDED:  
VIVIAN J. BANGCO  
DISTRICT ENGINEER

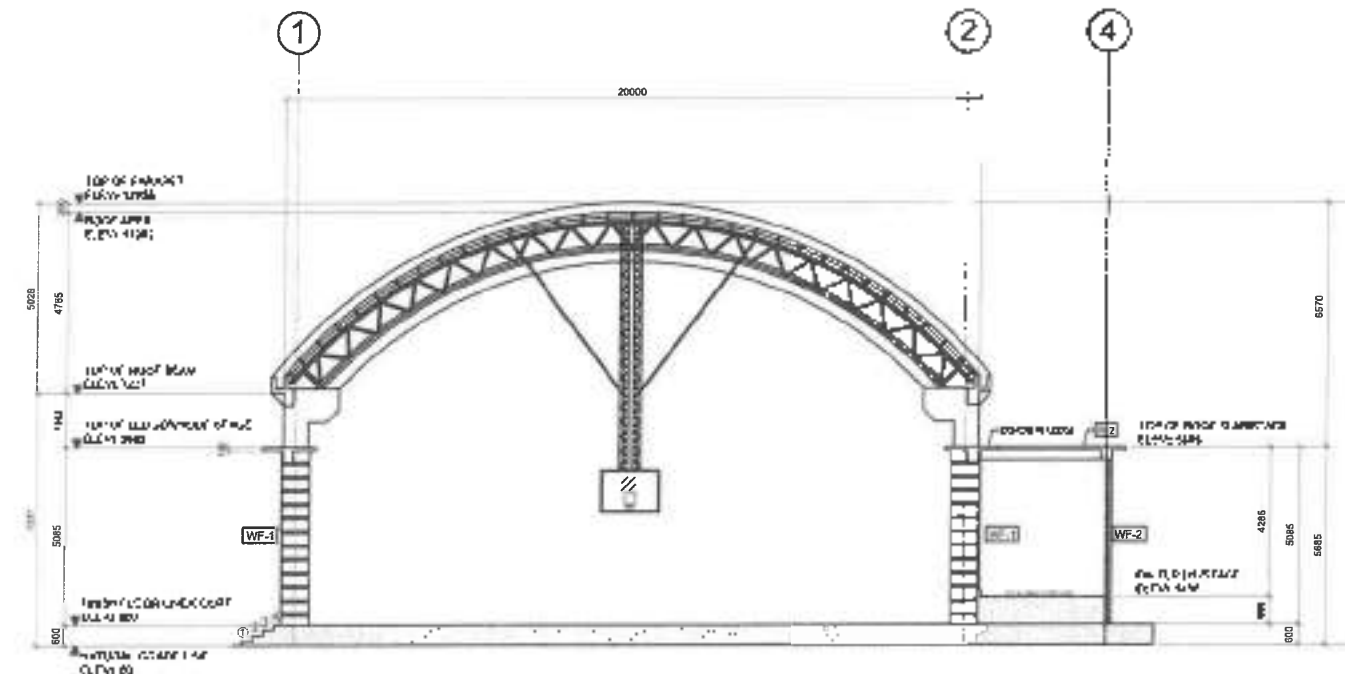
APPROVED:  
ALVIN A. EDUARDO  
DISTRICT ENGINEER

SHEET NO. 8  
A-7 47





**1 LONGITUDINAL SECTION**  
SCALE: 1:100MTS



**2 CROSS SECTION**  
SCALE: 1:100MTS

| SCHEDULE OF FINISHES |                                        |
|----------------------|----------------------------------------|
| NO.                  | DESCRIPTION                            |
| 1.1                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.2                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.3                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.4                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.5                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.6                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.7                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.8                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.9                  | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.10                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.11                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.12                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.13                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.14                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.15                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.16                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.17                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.18                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.19                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.20                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.21                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.22                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.23                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.24                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.25                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.26                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.27                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.28                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.29                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.30                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.31                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.32                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.33                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.34                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.35                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.36                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.37                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.38                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.39                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.40                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.41                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.42                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.43                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.44                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.45                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.46                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.47                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.48                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.49                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.50                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.51                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.52                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.53                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.54                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.55                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.56                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.57                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.58                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.59                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.60                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.61                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.62                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.63                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.64                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.65                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.66                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.67                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.68                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.69                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.70                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.71                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.72                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.73                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.74                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.75                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.76                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.77                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.78                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.79                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.80                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.81                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.82                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.83                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.84                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.85                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.86                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.87                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.88                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.89                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.90                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.91                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.92                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.93                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.94                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.95                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.96                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.97                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.98                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 1.99                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |
| 2.00                 | PLASTER (Gypsum) 12.5mm thick (Gypsum) |



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTI-PURPOSE FACILITY  
COVERED COURT, BARANGAY SAN JOSE,  
LAVEZARES, NORTHERN SAMAR

SCALE CONTENTS:  
CROSS SECTION  
LONGITUDINAL SECTION

DESIGNED:  
ALVIN A. HENAGIO  
ARCHITECT

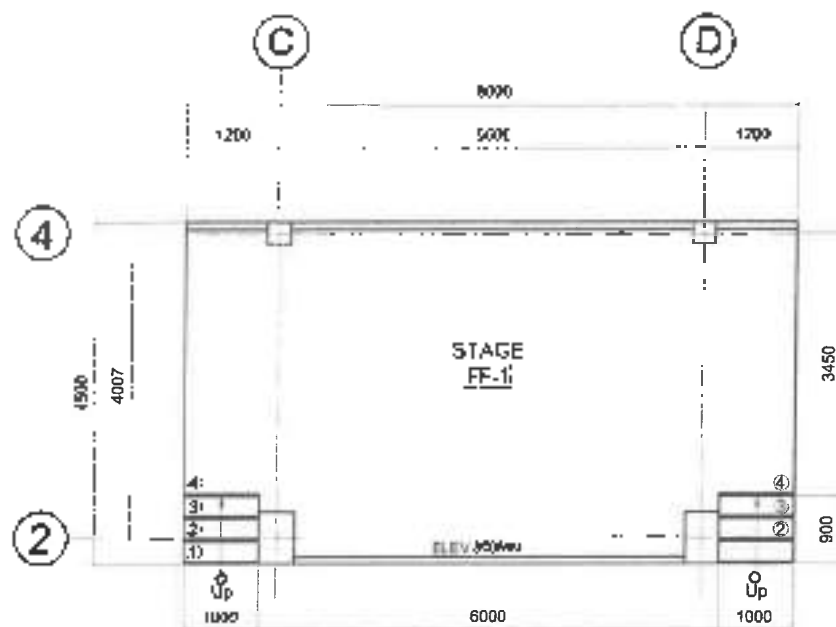
REVIEWED:  
ALVIN A. HENAGIO  
ARCHITECT

APPROVED:  
ALVIN A. HENAGIO  
ARCHITECT

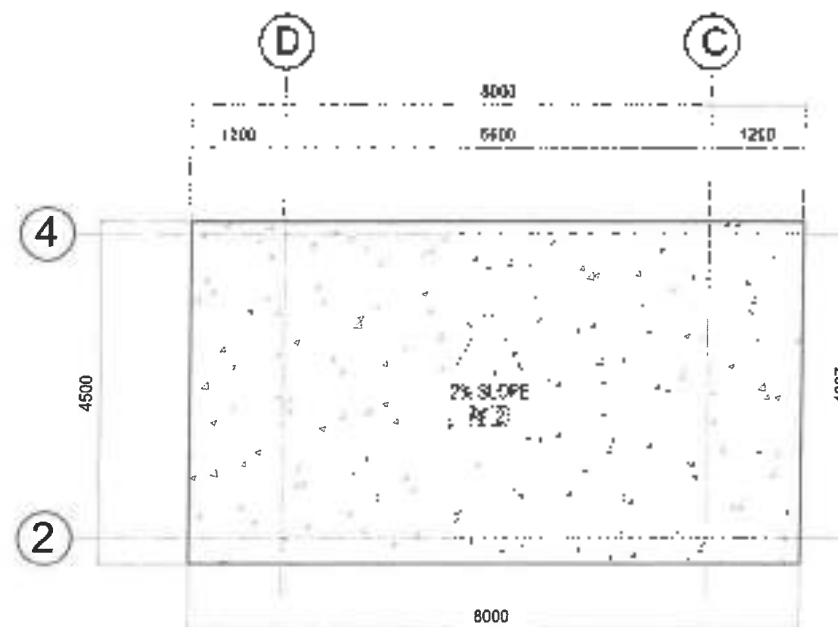
APPROVED:  
ALVIN A. HENAGIO  
ARCHITECT

APPROVED:  
ALVIN A. HENAGIO  
ARCHITECT

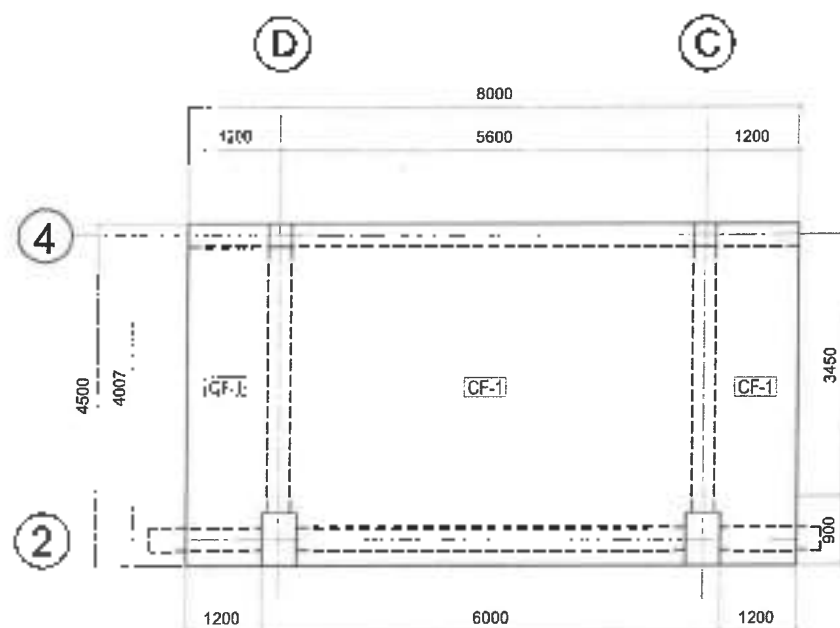
DATE: 11/11/2023  
11/42



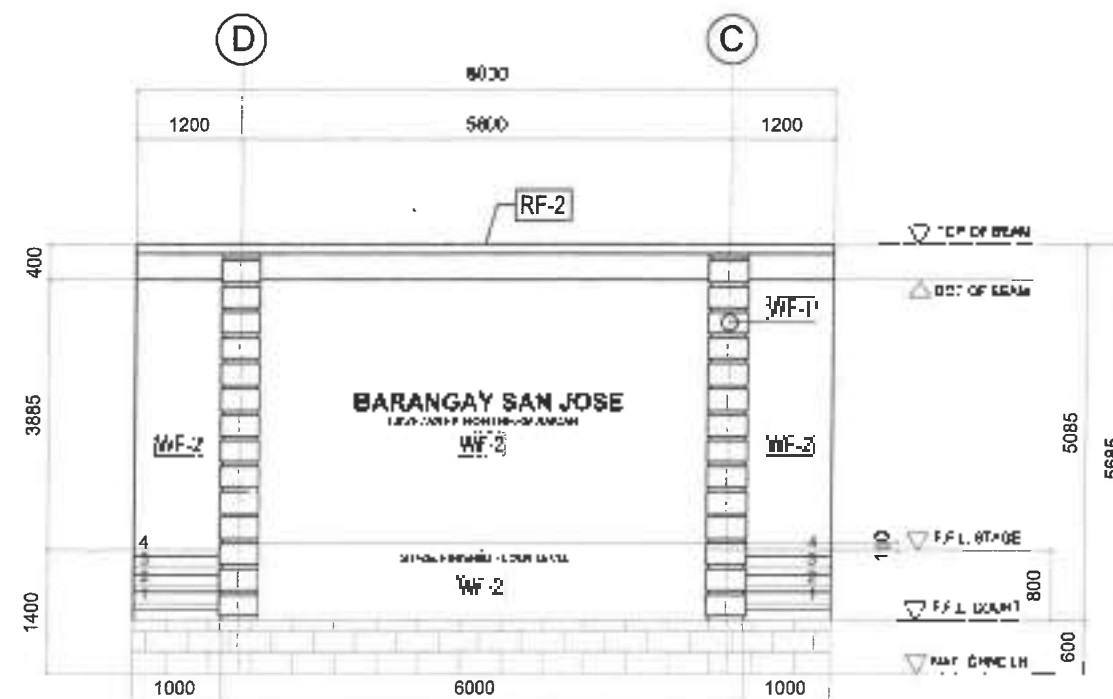
1 STAGE DETAIL PLAN  
A-10 SCALE 1:50MTS



2 STAGE ROOF PLAN  
A-10 SCALE 1:50MTS



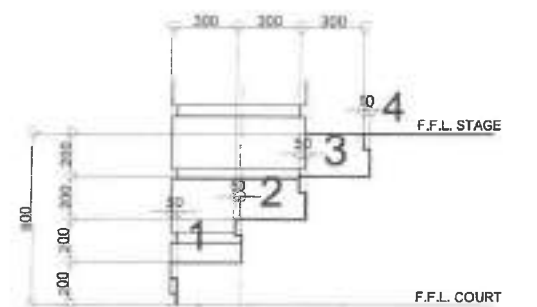
3 STAGE REFLECTED CEILING PLAN  
A-10 SCALE 1:50MTS



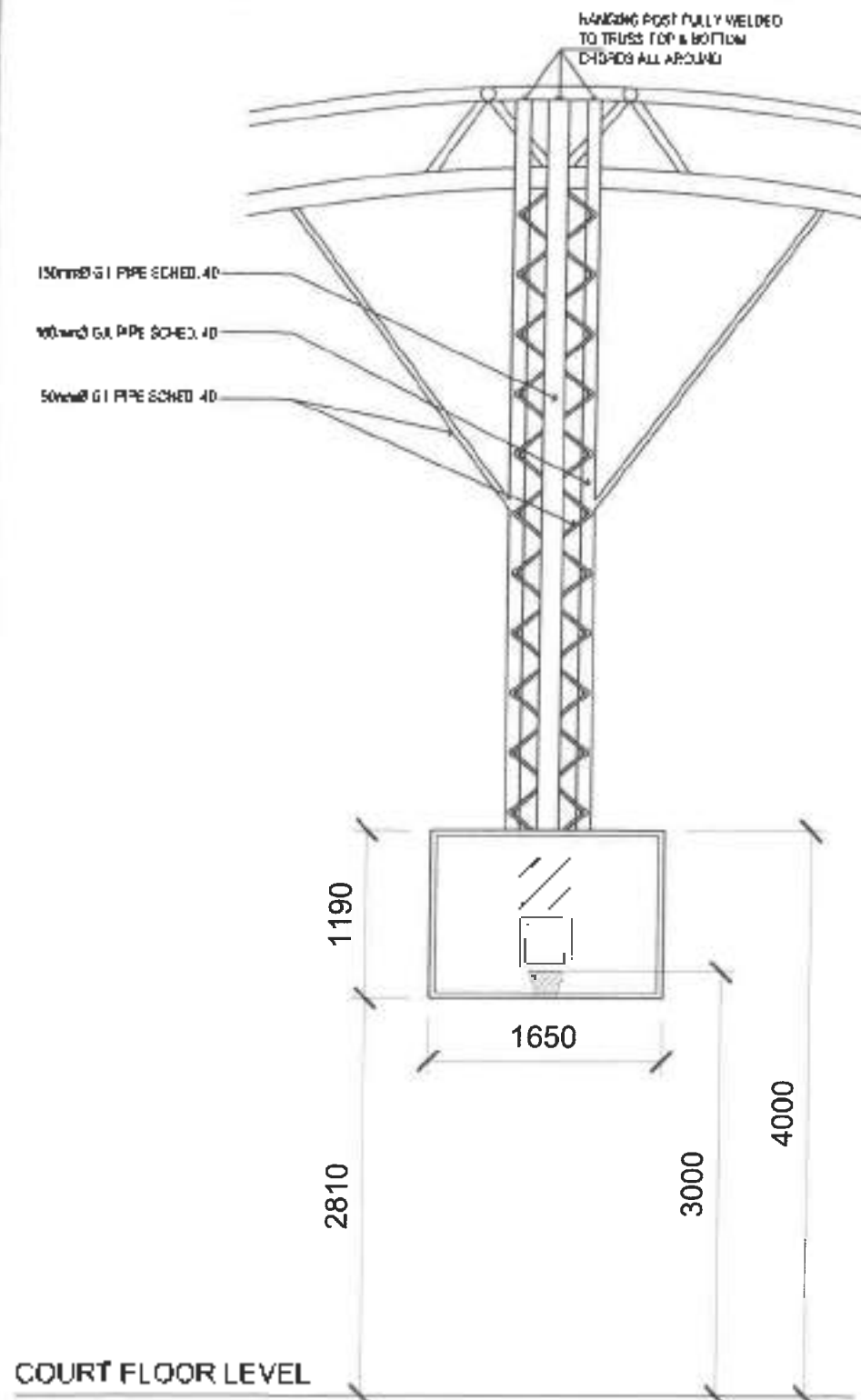
4 STAGE FRONT SIDE ELEVATION  
A-10 SCALE 1:50MTS

| SCHEDULE OF FINISHES |                                                             |
|----------------------|-------------------------------------------------------------|
| WALL FINISH          | DESCRIPTION                                                 |
| WF-1                 | PLASTERED, FINISHED WITH POLYURETHANE PAINT (2 COATS)       |
| WF-2                 | PLASTERED, FINISHED WITH POLYURETHANE PAINT (2 COATS)       |
| WF-3                 | PLASTERED, FINISHED WITH POLYURETHANE PAINT (2 COATS)       |
| FLOOR FINISH         | DESCRIPTION                                                 |
| FF-1                 | CONCRETE FLOOR FINISHED WITH POLYURETHANE PAINT (2 COATS)   |
| FF-2                 | CONCRETE FLOOR FINISHED WITH POLYURETHANE PAINT (2 COATS)   |
| FF-3                 | CONCRETE FLOOR FINISHED WITH POLYURETHANE PAINT (2 COATS)   |
| CEILING FINISH       | DESCRIPTION                                                 |
| CF-1                 | CONCRETE CEILING FINISHED WITH POLYURETHANE PAINT (2 COATS) |
| CF-2                 | CONCRETE CEILING FINISHED WITH POLYURETHANE PAINT (2 COATS) |
| DOOR FINISH          | DESCRIPTION                                                 |
| DF-1                 | CONCRETE DOOR FINISHED WITH POLYURETHANE PAINT (2 COATS)    |
| DF-2                 | CONCRETE DOOR FINISHED WITH POLYURETHANE PAINT (2 COATS)    |

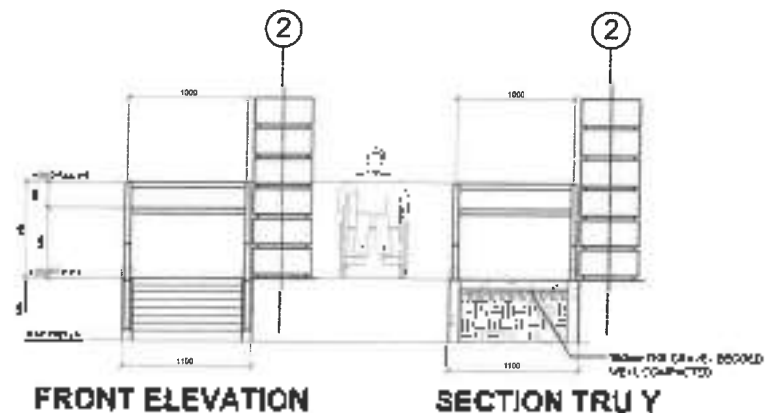
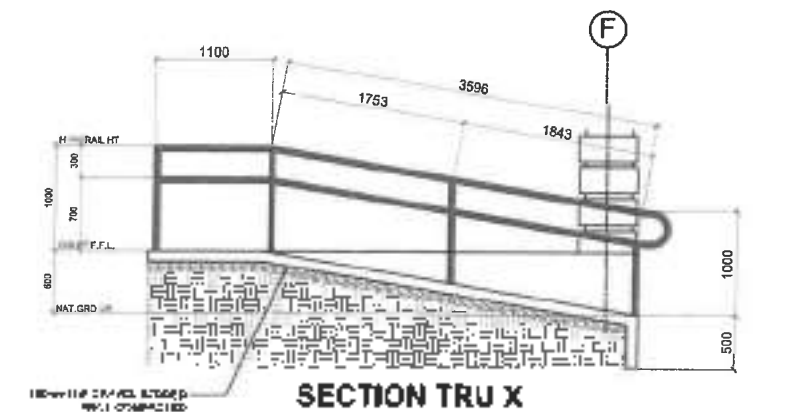
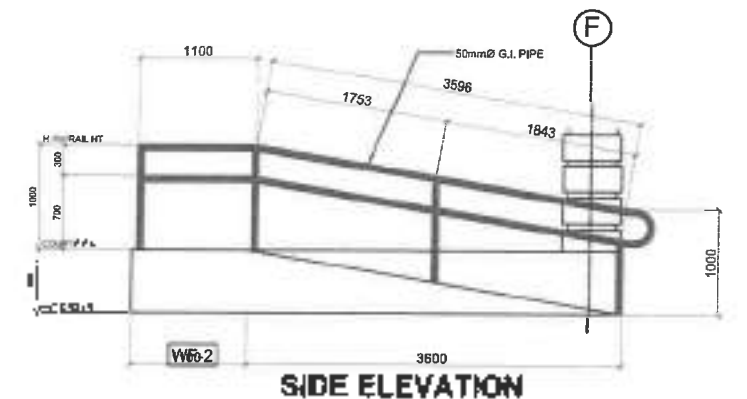
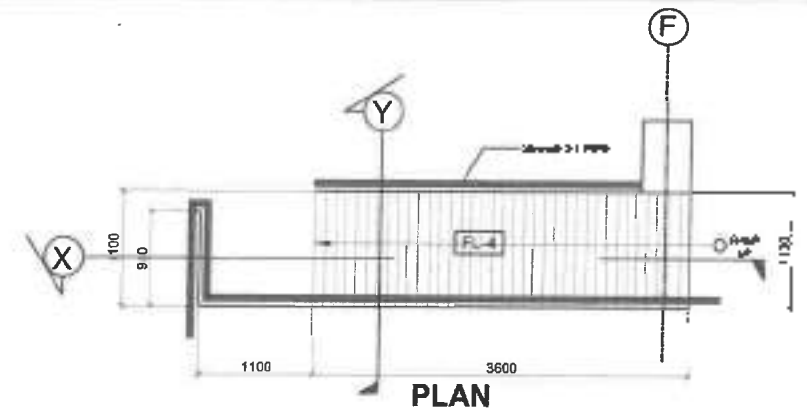
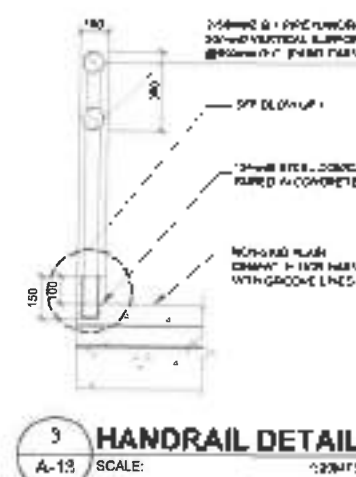
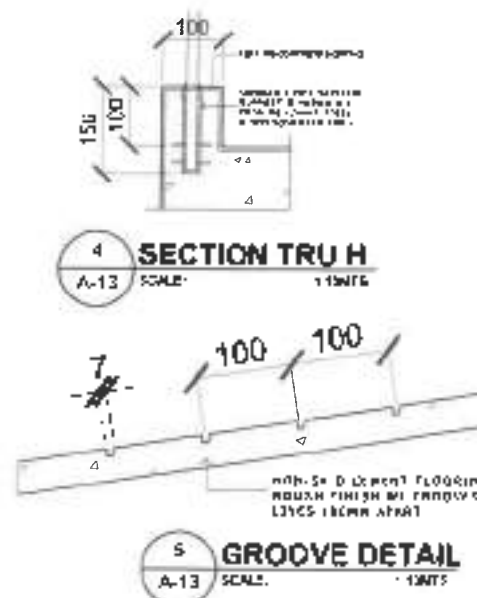
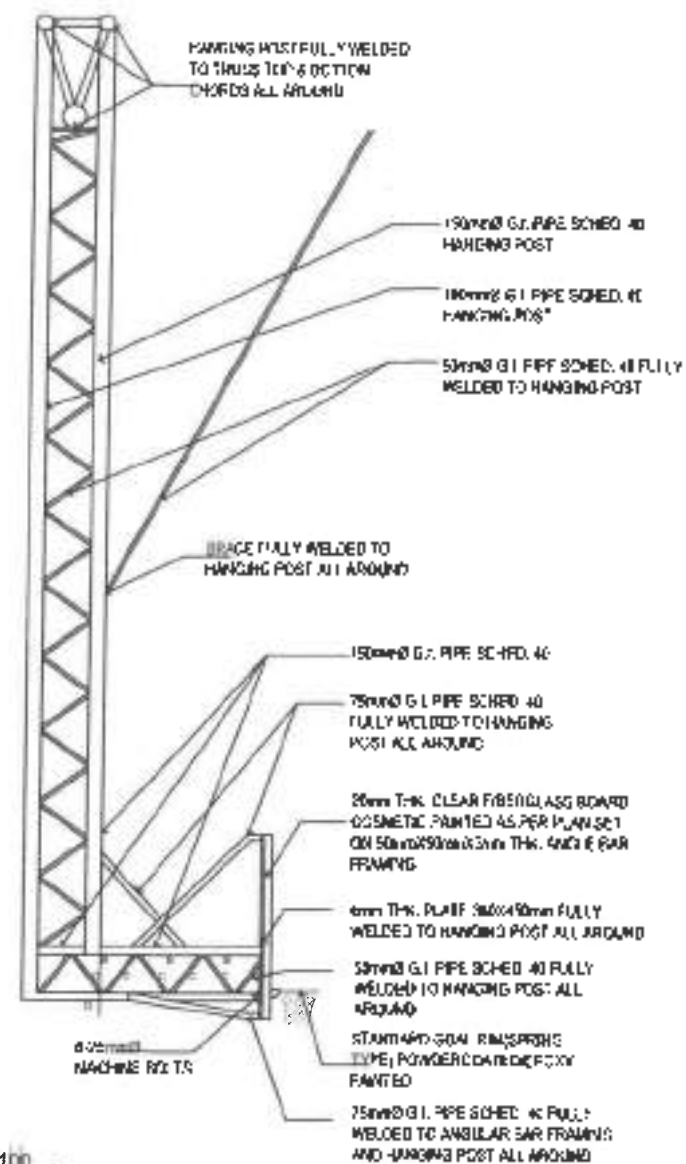








1 HANGING BASKETBALL RING DETAIL  
A-13 SCALE: 1:30MTS

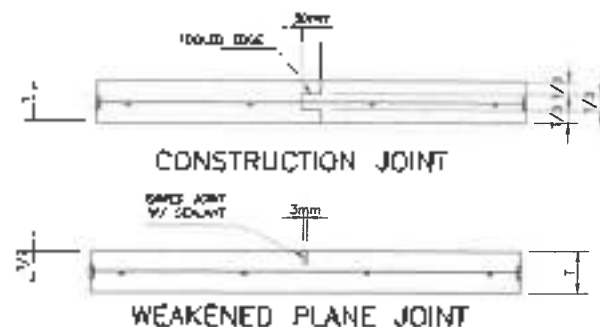


2 RAMP DETAIL  
A-13 SCALE: 1:30MTS

|                                                                                                                                        |                                                                                                                          |                                                                                     |                                                             |                                                             |                                                             |                                                             |                                                             |                        |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------|
| <p>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE VII<br/>NORTHERN SAMAR DISTRICT ENGINEERING OFFICE<br/>Linao, Samar</p> | <p>PROJECT NAME: CONSTRUCTION OF MULTI-PURPOSE FACILITY, (COVERED COURT) BARANGAY SAN JOSE, LAKEZARE, NORTHERN SAMAR</p> | <p>SHEET CONTENTS: HANGING BASKETBALL RING DETAIL, RAMP DETAIL, HANDRAIL DETAIL</p> | <p>DESIGNED BY: [Signature]<br/>CHECKED BY: [Signature]</p> | <p>REVIEWED BY: [Signature]<br/>CHECKED BY: [Signature]</p> | <p>APPROVED BY: [Signature]<br/>CHECKED BY: [Signature]</p> | <p>APPROVED BY: [Signature]<br/>CHECKED BY: [Signature]</p> | <p>APPROVED BY: [Signature]<br/>CHECKED BY: [Signature]</p> | <p>521 No. 521 No.</p> |
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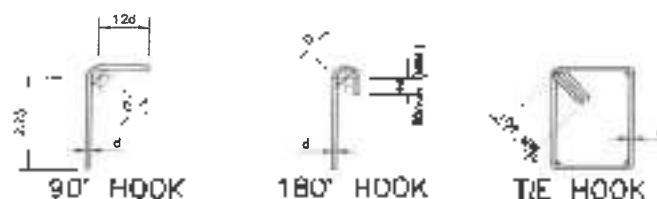






NOTE: CONTROL JOINT CAN BE EITHER CONSTRUCTION JOINT OR WEAKENED PLANE JOINT.

### 1C CONTROL JOINTS FOR SLAB-ON-FILL

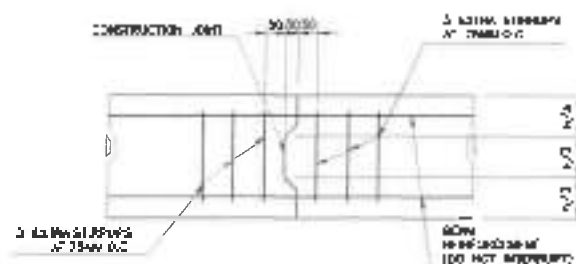


| BAR SIZE             | D        |           |
|----------------------|----------|-----------|
|                      | 90° HOOK | 180° HOOK |
| 10mm (100) 25mm (25) | 6d       | 4d        |
| 25mm (100) 30mm (30) | 8d       | 6d        |

NOTE: 1. ALL HOOKS SHOWN IN DETAILS/SCHEDULES SHALL BE STANDARD HOOK DIMENSIONS NOTED.  
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS



### 1B TYP. REINFORCEMENT DETAIL



### 1A BEAM CONSTRUCTION JOINT

NOTE: 1. ALL REINFORCEMENT SHALL BE STANDARD HOOK DIMENSIONS NOTED.  
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS

NOTE: 1. ALL REINFORCEMENT SHALL BE STANDARD HOOK DIMENSIONS NOTED.  
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS

### NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF EACH DAY (28 DAYS) BY CORRESPONDING MAXIMUM SIZE AGGREGATE & SLABS AS FOLLOWS:
 

| LOCATION                                       | 28 DAYS STRENGTH    | MAX. SIZE OF AGGREGATE | MAX. SLAB THICKNESS |
|------------------------------------------------|---------------------|------------------------|---------------------|
| ALL OTHERS, INCLUDING SUSPENDED SLABS, COLUMNS | 3000 PSI (20.7 MPa) | 20mm                   | 100mm               |
| BEAMS & SLABS                                  | 3000 PSI (20.7 MPa) | 20mm                   | 100mm               |
| SLAB ON FILL                                   | 2500 PSI (17.2 MPa) | 20mm                   | 100mm               |
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
 

| LOCATION                                                       | MIN. COVER |
|----------------------------------------------------------------|------------|
| SUSPENDED SLABS                                                | 25mm       |
| SLAB ON GRADE                                                  | 40mm       |
| WALLS ABOVE GRADE                                              | 25mm       |
| BEAM COLUMNS AND COLUMN TIES                                   | 40mm       |
| WHERE CONCRETE IS EXPOSED TO EARTH BUT PROTECTED AGAINST FORMS | 25mm       |
| WHERE CONCRETE IS EXPOSED TO EARTH BUT PROTECTED AGAINST FORMS | 25mm       |
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT NECESSARY REINFORCEMENT. REINFORCEMENT SHALL BE DONE PRIOR TO POURING. SLABS SHALL BE REINFORCED WITH BARS, SPOOLS OR WIRE BARRICADES. NO CHUTES MAY BE ALLOWED EXCEPT IN TRANSFER CONCRETE FROM FLOORS TO SLABS. MILLIARROWS OR PICKETS IN WHICH CASE THEY SHALL NOT EXCEED 30 (3) METERS IN AGGREGATE LENGTH.
- NO MIXING IN CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATORS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
- ALL ANCHOR BOLTS, JOISTS, AND OTHER EMBEDS, SHALL BE PROPERLY POSITIONED & SECURED BY HAND PRIOR TO PLACING OF CONCRETE.
- 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.
- STRENGTH OF FORMS AND SHORES
 

| LOCATION                                                | MIN. STRENGTH |
|---------------------------------------------------------|---------------|
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED | 8 DAYS        |
| WALLS                                                   | 21 DAYS       |
| BEAMS                                                   | 14 DAYS       |
| COLUMNS                                                 | 21 DAYS       |
- 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.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE FORMS AND SHORES UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

### NOTES ON FOOTINGS

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 150 KPa (10.33 T/m<sup>2</sup>). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND ESTIMATE ACTUAL BEARING CAPACITY OF SOIL BEFORE REINFORCING CONCRETE.
- FOOTING SHALL REST AT LEAST 100mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED ON GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.
- IN CASES WHERE THE SOIL CONDITION IS SUCH THAT THE MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 150 KPa (10.33 T/m<sup>2</sup>) CAN NOT BE ATTAINED AT PRACTICAL DEPTHS, THE USE OF MICROPILES, BORED PILES, OR OTHER MEANS MAY BE ADOPTED IN LIEU OF STANDARD (ISOLATED) FOOTINGS.

### NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE MIN. DEVELOPMENT LENGTH OF REINFORCING BARS SHALL BE:
 

| LOCATION                                                                                     | MIN. DEVELOPMENT LENGTH     |
|----------------------------------------------------------------------------------------------|-----------------------------|
| A. FOOTINGS, FOOTING BEAMS AND COLUMNS                                                       | 15 = 275 MPa ( 40,000 PSI ) |
| B. COLUMNS AND SHEAR WALLS                                                                   | 15 = 275 MPa ( 40,000 PSI ) |
| C. BEAMS AND GIRDS                                                                           | 15 = 275 MPa ( 40,000 PSI ) |
| D. WALL-TYPE BEARING WALL, PARTITION, RETAINING WALLS, SLABS, PARAPETS (WITH BUILT-UP WALLS) | 15 = 275 MPa ( 40,000 PSI ) |
- ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE INFORMATION IN ACCORDANCE WITH ASTM A 601. BARS SMALLER THAN 10mm SHALL BE PLAIN.
- SPLICES SHALL BE SECURELY WELDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE A & TABLE B (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SPECIFIED ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

### 4.0 MATERIALS

#### 4.1 CONCRETE

- CONCRETE COVER OVER REINFORCING BARS SHALL BE AS FOLLOWS:
 

| LOCATION                                                 | MIN. COVER |
|----------------------------------------------------------|------------|
| A. FOOTINGS, FOOTING-BEAMS (CAST AGAINST EARTH)          | 75mm       |
| B. BEAMS AND COLUMNS (TO SHIRUPS AND RIS)                | 40mm       |
| C. WALLS, SIDE OF FORMING-ILL BEAMS (CAST AGAINST FORMS) | 40mm       |
| D. SUSPENDED SLAB                                        | 25mm       |
- BEFORE CONCRETE IS PLACED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS ETC. RELATING TO THE WORK.
- REINFORCING BARS
  - ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.
  - ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
  - LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
  - UNLESS OTHERWISE INDICATED, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A-1-SIM, EXCEPT THAT THE MINIMUM LAP SPICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600mm.
  - UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE AS FOLLOWS:
    - INTERMEDIATE BEAMS: TOP BARS SHALL BE SPLICED AT MID-SPAN, AND BOTTOM BARS AT THE SUPPORT.
    - BEAMS FRAMING TO COLUMNS: TOP BARS SHALL BE SPLICED AT MID-SPAN AND BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN OR W/IN A DISTANCE OF FIVE TIMES THE BEAM DEPTH FROM THE FACE OF THE COLUMN. THE SPICE LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (L<sub>d</sub>) IN 4.2.8 BELOW BUT NOT LESS THAN 600mm.
    - COLUMNS: LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USE OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600mm.
    - CHG WALLS: VERTICAL BARS SHALL BE SPLICED AT THE TOP OF WALL FOOTINGS OR FOOTING-BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LITE, BEAMS OR BEAMS.
- UNLESS OTHERWISE INDICATED: ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN TERMINATING IN A STANDARD 90° HOOK. LENGTH OF ANCHORAGE SHALL NOT BE LESS THAN 600mm.
- SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.
- DEVELOPMENT LENGTH (L<sub>d</sub>) OF REINFORCING BARS SHALL BE AS FOLLOWS:
 

| SIZE OF REBARS | DEVELOPMENT LENGTH |
|----------------|--------------------|
| 12 mm          | 170 mm             |
| 14 mm          | 220 mm             |
| 16 mm          | 270 mm             |
| 20 mm          | 380 mm             |
| 25 mm          | 600 mm             |

### NOTES ON CONCRETE HOLLOW BLOCK WALLS

- CONCRETE HOLLOW BLOCK WALLS SHALL BE CONSTRUCTED USING 150mm x 200mm x 200mm HOLLOW BLOCKS WITH 10mm REINFORCING BARS.
- CONCRETE HOLLOW BLOCK WALLS SHALL BE CONSTRUCTED USING 150mm x 200mm x 200mm HOLLOW BLOCKS WITH 10mm REINFORCING BARS.
- CONCRETE HOLLOW BLOCK WALLS SHALL BE CONSTRUCTED USING 150mm x 200mm x 200mm HOLLOW BLOCKS WITH 10mm REINFORCING BARS.

| NOTES ON CONCRETE HOLLOW BLOCK WALLS REINFORCEMENT |                   |               |                                |
|----------------------------------------------------|-------------------|---------------|--------------------------------|
| Block Thickness                                    | Block Orientation | Reinforcement | Notes                          |
| 150mm                                              | Vertical          | 10mm          | 1. REINFORCEMENT SHALL BE 10mm |
| 200mm                                              | Vertical          | 10mm          | 1. REINFORCEMENT SHALL BE 10mm |
| 250mm                                              | Vertical          | 10mm          | 1. REINFORCEMENT SHALL BE 10mm |
| 300mm                                              | Vertical          | 10mm          | 1. REINFORCEMENT SHALL BE 10mm |

NOTE: 1. ALL REINFORCEMENT SHALL BE STANDARD HOOK DIMENSIONS NOTED.  
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE NO. 10  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Lambert, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE FACILITY  
(CONCRETE COURT) BARANGAY SAN JOSE,  
LAVEJANES, NORTHERN SAMAR

SHEET CONTENTS:  
GENERAL CONSTRUCTION NOTES

APPROVED:  
SUBMITTED:  
DESIGNED:  
NOT F. PEDRILA

REVIEWED:  
SUBMITTED:  
DESIGNED:  
NOT F. PEDRILA

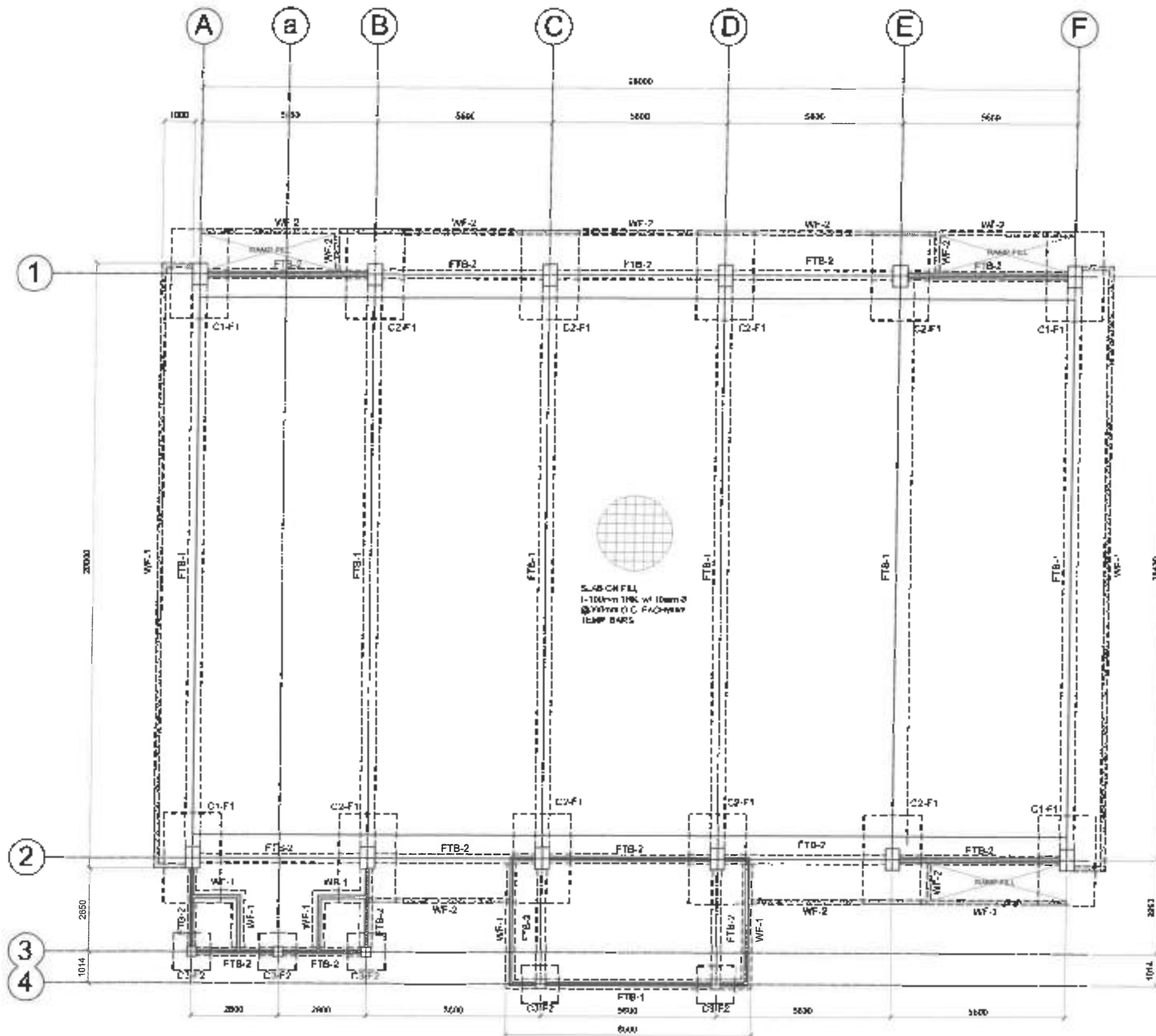
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SUBMITTED:  
DESIGNED:  
NOT F. PEDRILA

APPROVED:  
SUBMITTED:  
DESIGNED:  
NOT F. PEDRILA

APPROVED:  
SUBMITTED:  
DESIGNED:  
NOT F. PEDRILA

SET NO.  
17  
42





1 FOUNDATION PLAN/COURT  
S-3 SCALE 1:1000



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VI  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Lalawan, Naga, Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTI-PURPOSE FACILITY,  
(COVERED COURT) BARANGAY SAN JOSE,  
LAVERGAL, NORTHERN SAMAR  
- BARANGAY, NORTHERN SAMAR

SHEET CONTENTS:  
FOUNDATION PLAN

PREPARED BY  
ENR. MARCO T. LUCIANO  
CHECKED BY  
JESSA F. PASCUAL  
DATE

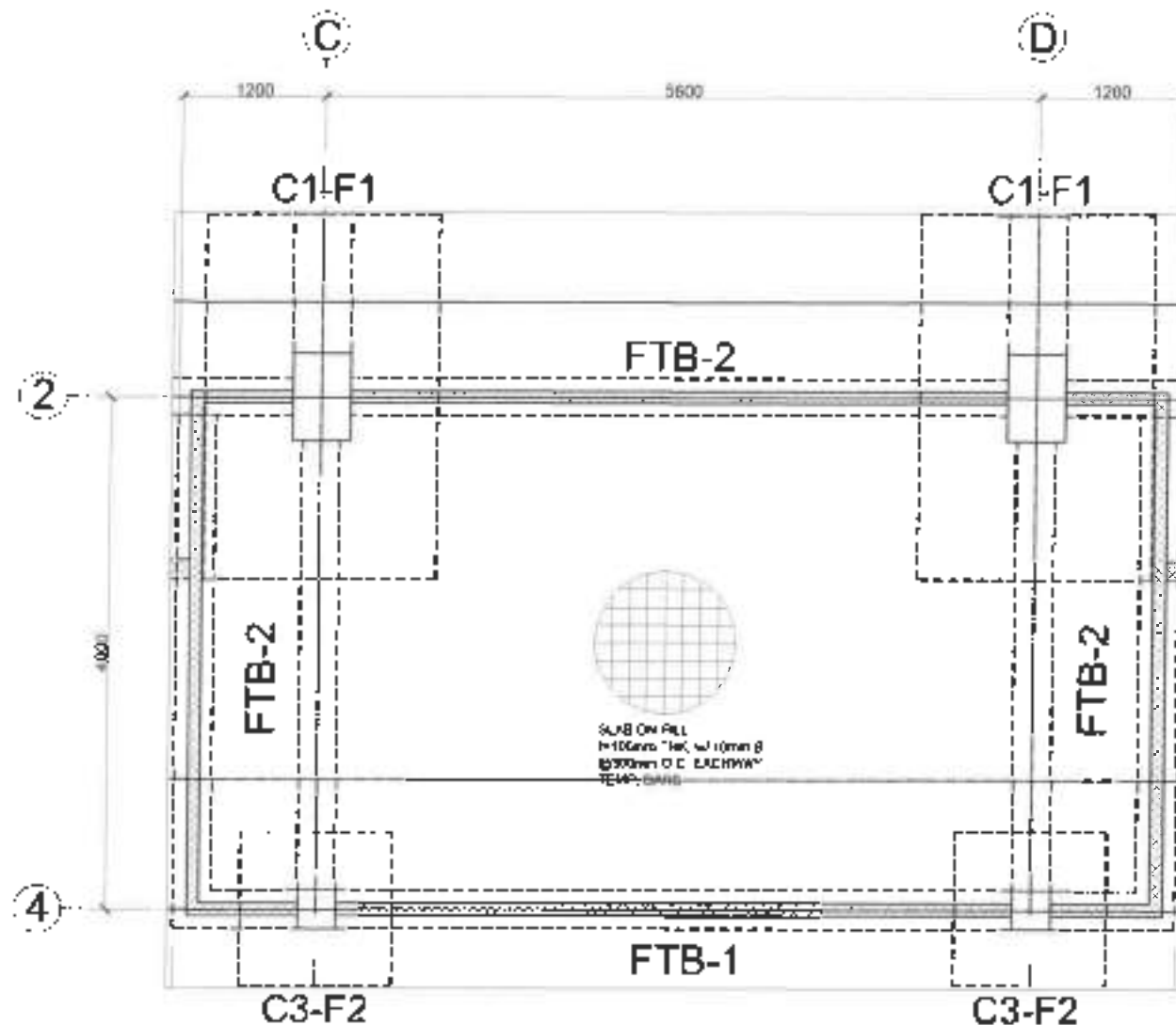
APPROVED BY  
MAR DONALD M. EMBAY  
CHIEF ENGINEER  
DATE

SUBMITTED BY  
ANDY S. EMBAY  
CHIEF ENGINEER  
DATE

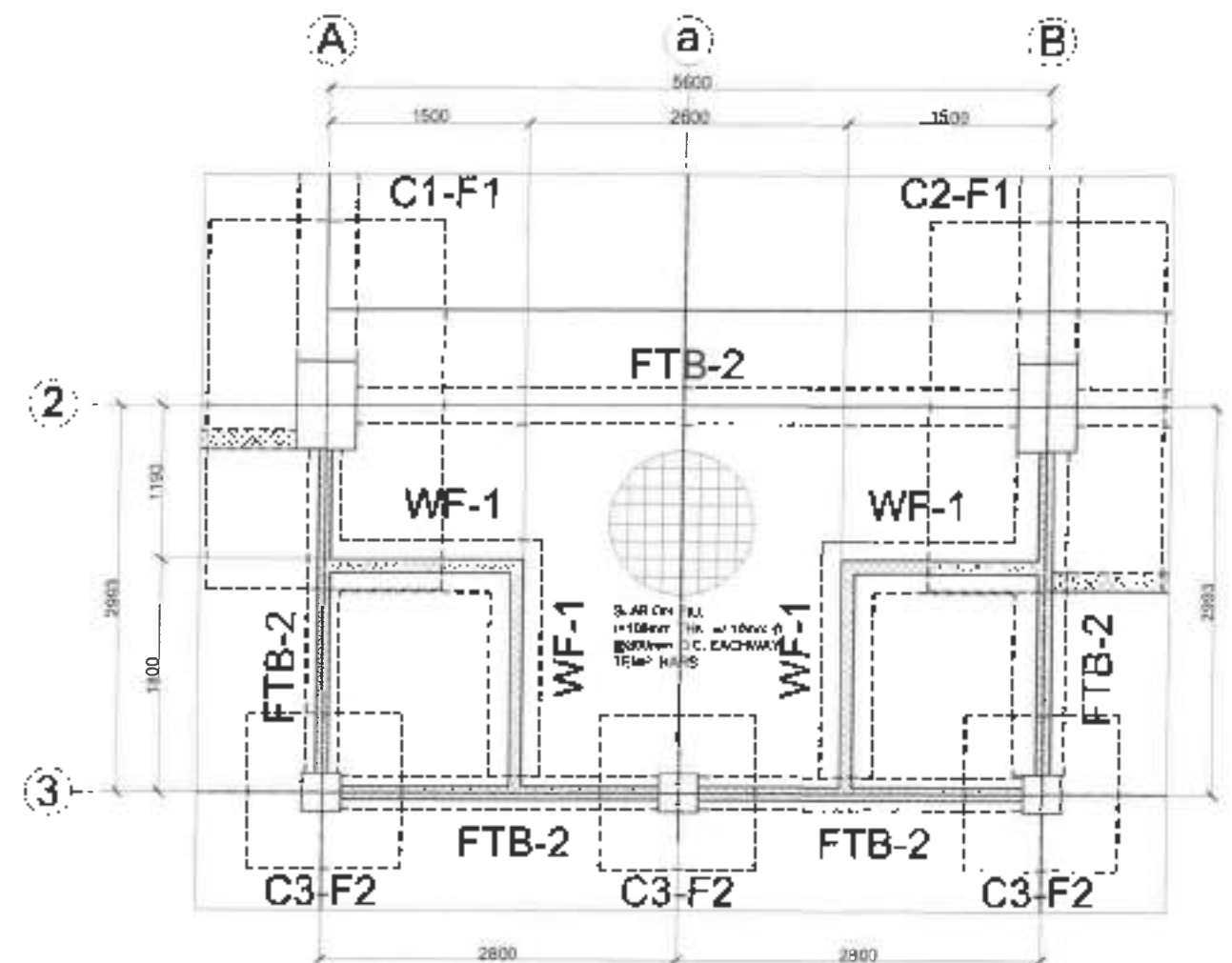
RECOMMENDED BY  
VIVIAN S. BLASCO  
CHIEF ENGINEER  
DATE

APPROVED BY  
ALVIN A. IGNACIO  
CHIEF ENGINEER  
DATE

SHEET NO.  
18  
42



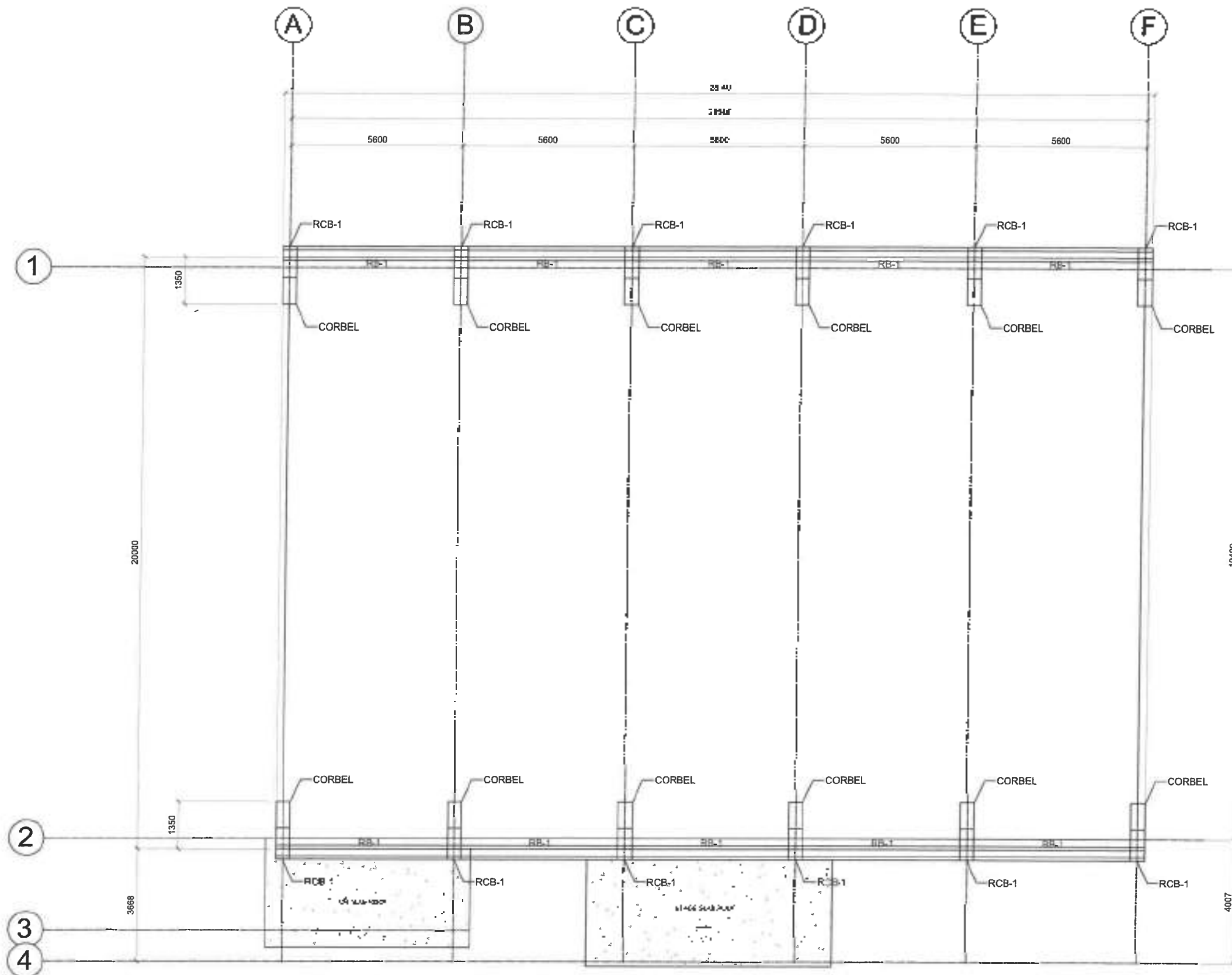
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S-4 SCALE: 1/200TS



**BLOW UP  
FOUNDATION PLAN/CR**  
2  
S-4 SCALE: 1/200TS

|                                                                                                                                                                                                                                                            |                                                                                                                                                                                                |                                                                            |                                                                                                                                             |                                                                                                        |                                                                                                         |                                                                                                           |                                                                                                        |                                                                                 |
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|  <p>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE No. VI<br/><b>NORTHERN SAMAR FIRST<br/>DISTRICT ENGINEERING OFFICE</b><br/>Calbayog, Northern Samar</p> | <p>PROJECT NAME &amp; LOCAT. OR.</p> <p><b>CONSTRUCTION OF MULTIPURPOSE FACILITY,<br/>(COVERED COURT) BARANGAY SAN JOSE,<br/>LAVEZARIS, NORTHERN SAMAR</b><br/>(LAVEZARIS, Northern Samar)</p> | <p>SHEET CONTENTS:</p> <p>FOUNDATION PLAN/STAGE<br/>FOUNDATION PILE/CR</p> | <p>PREPARED:</p> <p>BY: <i>[Signature]</i><br/>CHECKED: <i>[Signature]</i><br/>DESIGNED: <b>JEFF F. PEDROLA</b><br/>DATE: <i>[Date]</i></p> | <p>REVIEWED:</p> <p>BY: <i>[Signature]</i><br/>CHECKED: <i>[Signature]</i><br/>DATE: <i>[Date]</i></p> | <p>SUBMITTED:</p> <p>BY: <i>[Signature]</i><br/>CHECKED: <i>[Signature]</i><br/>DATE: <i>[Date]</i></p> | <p>RECOMMENDED:</p> <p>BY: <i>[Signature]</i><br/>CHECKED: <i>[Signature]</i><br/>DATE: <i>[Date]</i></p> | <p>APPROVED:</p> <p>BY: <i>[Signature]</i><br/>CHECKED: <i>[Signature]</i><br/>DATE: <i>[Date]</i></p> | <p>SHEET No.</p> <p><b>3-4</b></p> <p>NO. OF SHEETS</p> <p><b>19</b><br/>42</p> |
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1 ROOF BEAM FRAMING PLAN  
S-6 SCALE: 1:100MTS



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Cebu City, Northport Building

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE FACILITY,  
COVERED COURT, BARANGAY SAN JOSE,  
LAVEZAROS, NORTHERN SAMAR  
Lavezaros, Northport Building

SHEET CONTENTS:  
ROOF BEAM FRAMING PLAN

PREPARED BY:  
SUPERVISOR  
DESIGNED BY:  
JEFF A. MORALES  
DATE: 08/20/2023

REVIEWED BY:  
MR. DONALD N. EMAN  
DATE: 08/20/2023  
CHIEF PLANNING & DESIGN SECTION

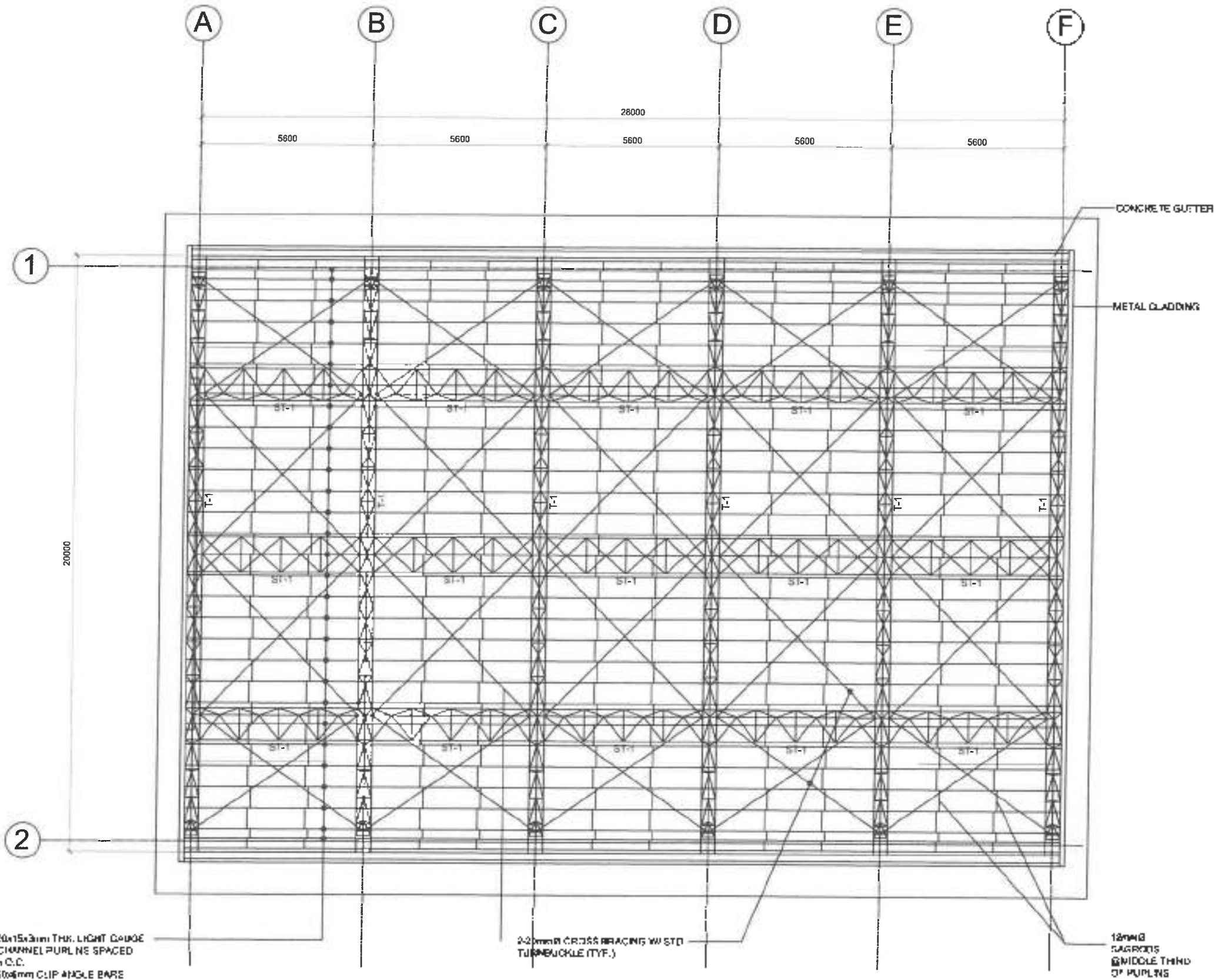
QUALITY CHECK:  
ANDY S. ENERO  
DATE: 08/20/2023  
CHIEF PLANNING & DESIGN SECTION

REVISIONS:  
VITA M. DELA CRUZ  
DATE: 08/20/2023  
CHIEF PLANNING & DESIGN SECTION

APPROVED BY:  
ALVIN A. IBNACIO  
DATE: 08/20/2023  
DISTRICT ENGINEER

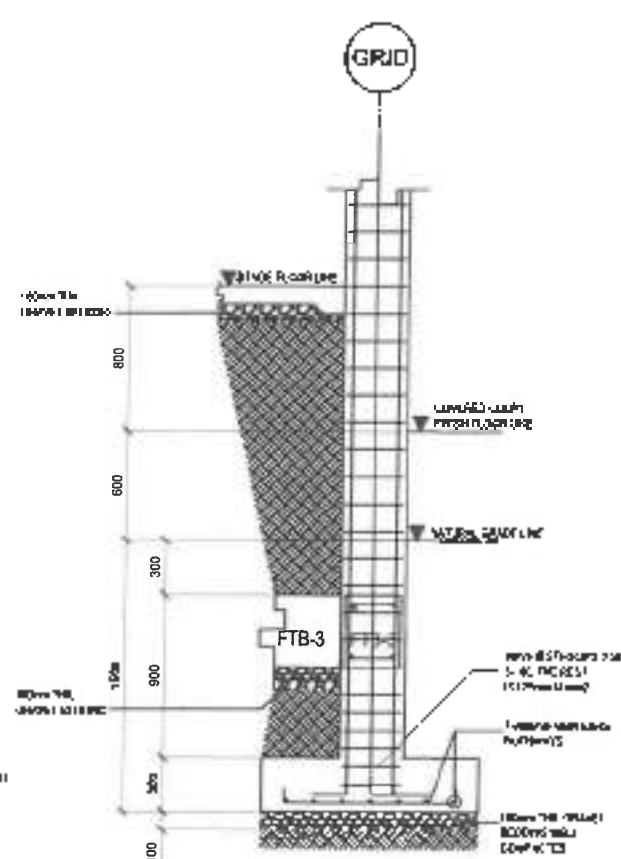
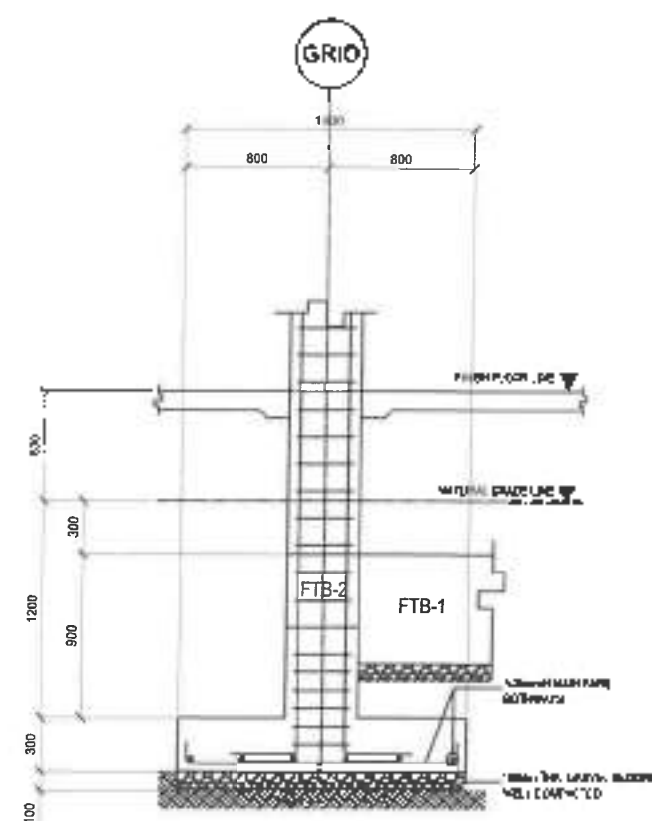
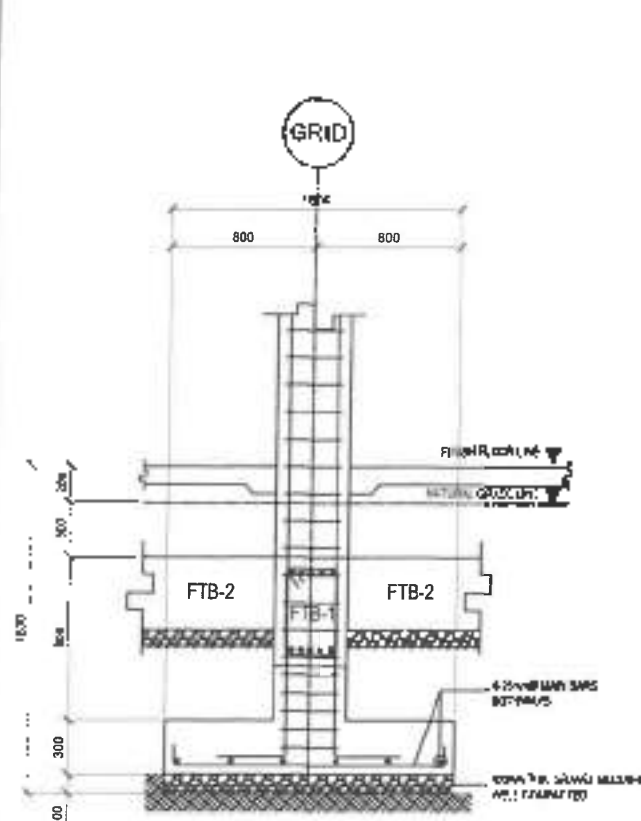
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TOTAL SHEETS: 21  
PAGE NO.: 42



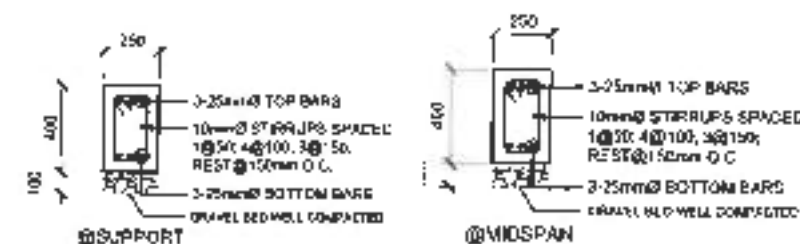


1 ROOF FRAMING PLAN  
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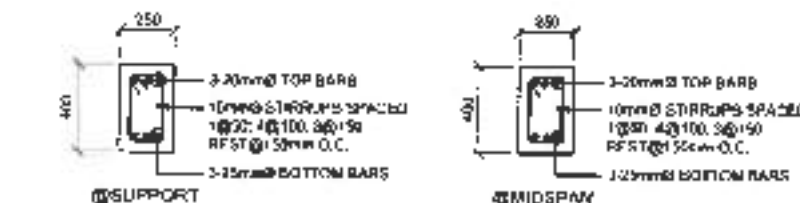
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------|
|  <p>Republic of the Philippines<br/>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS<br/>REGIONAL OFFICE No. VII<br/><b>NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE</b><br/>Calbayog, Albay Road</p> | <p>PROJECT NAME &amp; LOCATION<br/><b>CONSTRUCTION OF MULTI-PURPOSE FACILITY,<br/>(COVERED COURT) BARANGAY SAN JOSE,<br/>LAVEZAR, NORTHERN SAMAR</b></p> | <p>PROJECT CONTENTS:<br/><b>ROOF FRAMING PLAN</b></p> | <p>PREPARED BY<br/><b>JOY E. SERRANO</b><br/>Checked by<br/><b>JOY E. SERRANO</b><br/>Date<br/><b>10/10/2023</b></p> | <p>REVIEWED:<br/><b>MANUEL M. OMAN</b><br/>ASST. CHIEF ENGINEER<br/>Date<br/><b>10/10/2023</b></p> | <p>SUBMITTED:<br/><b>JOY E. SERRANO</b><br/>CHIEF PLANNING &amp; DESIGN SECTION<br/>Date<br/><b>10/10/2023</b></p> | <p>RECOMMENDED:<br/><b>VIVIAN G. MACAO</b><br/>ASST. CHIEF ENGINEER<br/>Date<br/><b>10/10/2023</b></p> | <p>APPROVED:<br/><b>ALVIN A. ROMERO</b><br/>DISTRICT ENGINEER<br/>Date<br/><b>10/10/2023</b></p> | <p>SHEET NO.<br/><b>S-7</b></p> | <p>SHEET NO.<br/><b>22</b><br/>42</p> |
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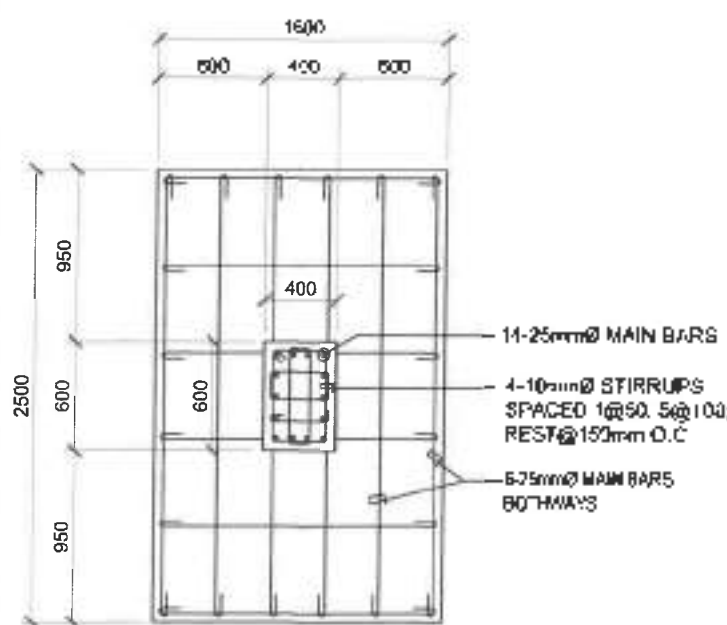
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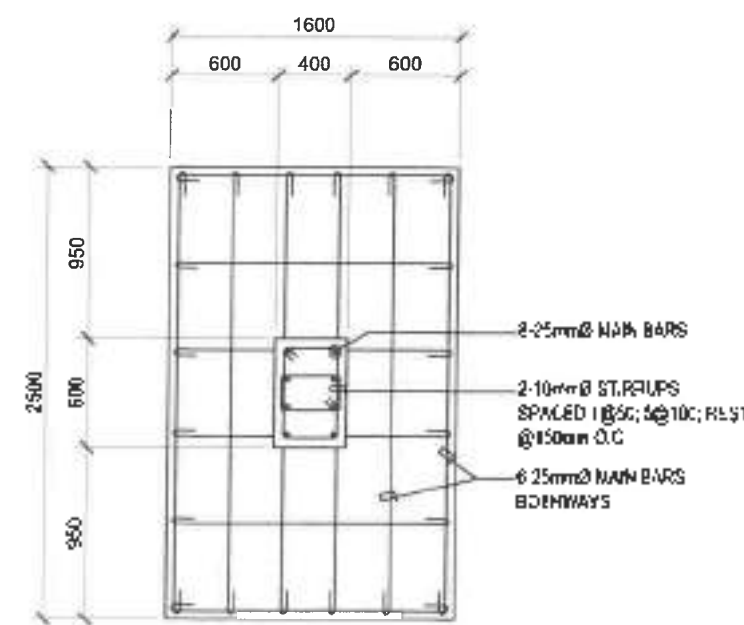
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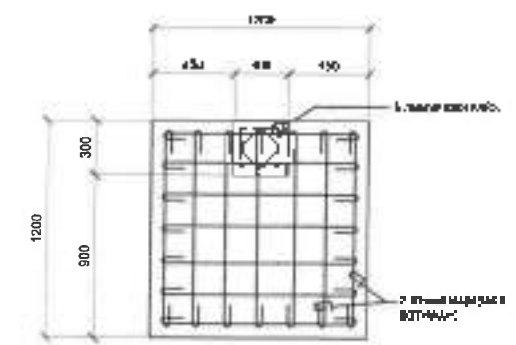
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SCALE: 1:200



1 C-1/F-1 DETAIL  
SCALE: 1:200



2 C-2/F-1 DETAIL  
SCALE: 1:200



3 C-3/F-2 DETAIL  
SCALE: 1:200

| COLUMN SCHEDULE      |                                                 |                                                 |                                                 |
|----------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| COVERED COURT COLUMN | C-1                                             | C-2                                             | C-3                                             |
|                      | 1600                                            | 1600                                            | 1600                                            |
|                      | 2500                                            | 2500                                            | 2500                                            |
|                      | 11-25mm MAIN BARS                               | 11-25mm MAIN BARS                               | 11-25mm MAIN BARS                               |
|                      | 4-10mm STIRRUPS SPACED 100mm, REST @ 150mm O.C. | 4-10mm STIRRUPS SPACED 100mm, REST @ 150mm O.C. | 4-10mm STIRRUPS SPACED 100mm, REST @ 150mm O.C. |
|                      | 6-25mm MAIN BARS BOTTOMWAYS                     | 6-25mm MAIN BARS BOTTOMWAYS                     | 6-25mm MAIN BARS BOTTOMWAYS                     |



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGIONAL OFFICE No. VII  
NORTHERN SAMAR DISTRICT ENGINEERING OFFICE  
Cebu City, Northern Samar

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE FACILITY  
(COVERED COURT) BARANGAY SAN JOSE,  
LAVERA, NORTHERN SAMAR

SHEET CONTENTS  
DESIGN OF MULTIPURPOSE FACILITY  
(COVERED COURT) BARANGAY SAN JOSE,  
LAVERA, NORTHERN SAMAR

PREPARED BY  
JERRY F. PEDROSA  
DESIGNED BY  
JERRY F. PEDROSA

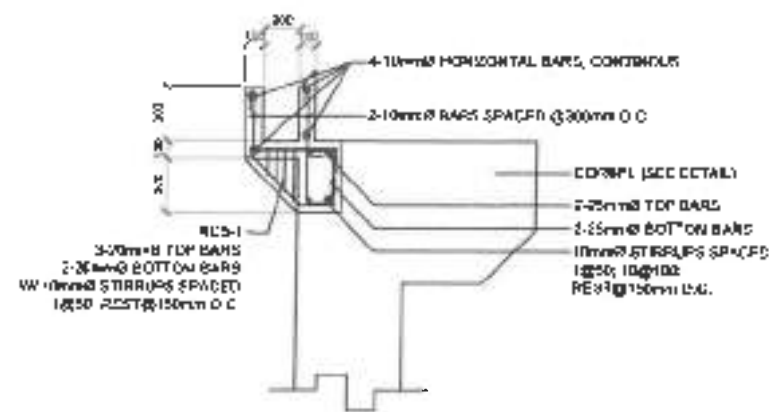
REVIEWED BY  
ANDY B. BERNARD  
CHECKED BY  
ANDY B. BERNARD

APPROVED BY  
ANDY B. BERNARD  
DATE

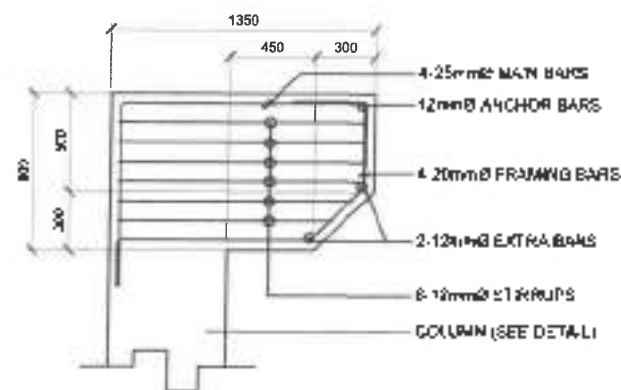
RECOMMENDED BY  
ANDY B. BERNARD  
DATE

APPROVED BY  
ALVIN A. IGNACIO  
DATE

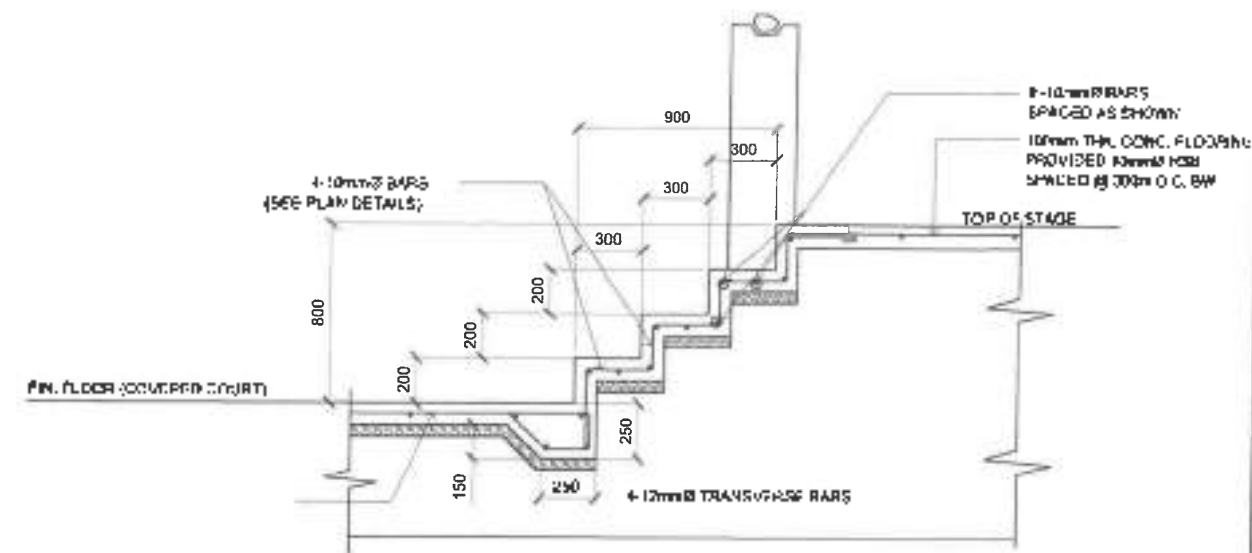
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23  
42



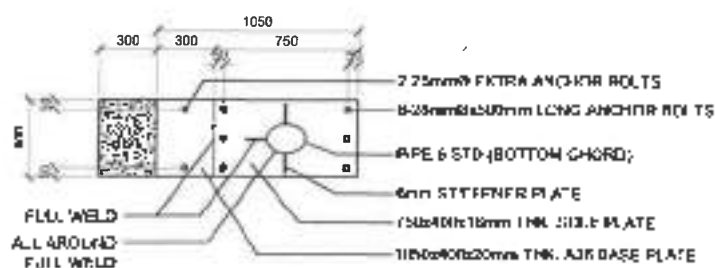
1 RB-1/RCB-1/ CONCRETE GUTTER DETAIL  
S-9 SCALE: 1:30MTS



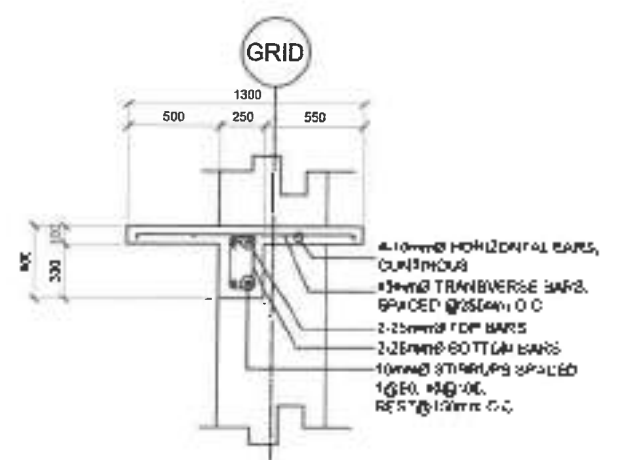
4 CORBEL DETAIL  
S-9 SCALE: 1:30MTS



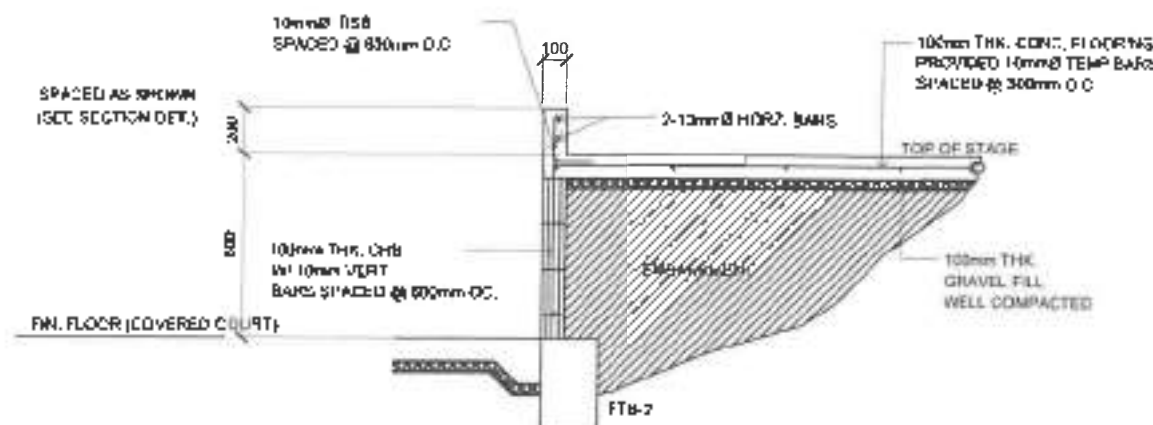
7 STAGE SECTION DETAIL (STAIR)  
S-9 SCALE: 1:30MTS



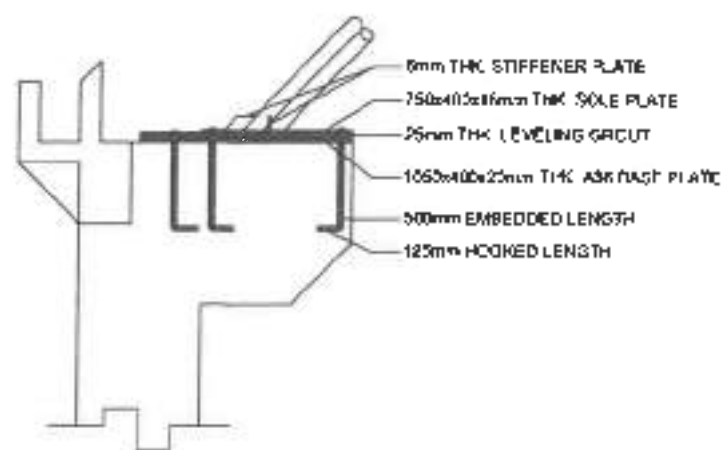
2 CONCRETE COLUMN/TOP VIEW  
S-9 SCALE: 1:30MTS



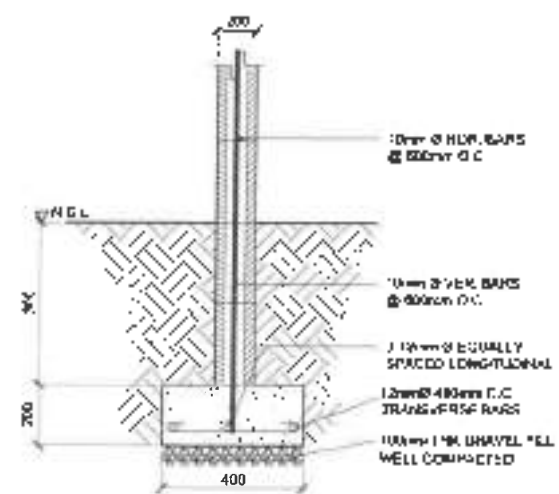
5 B-1 / CS-1 SECTION DETAIL  
S-9 SCALE: 1:30MTS



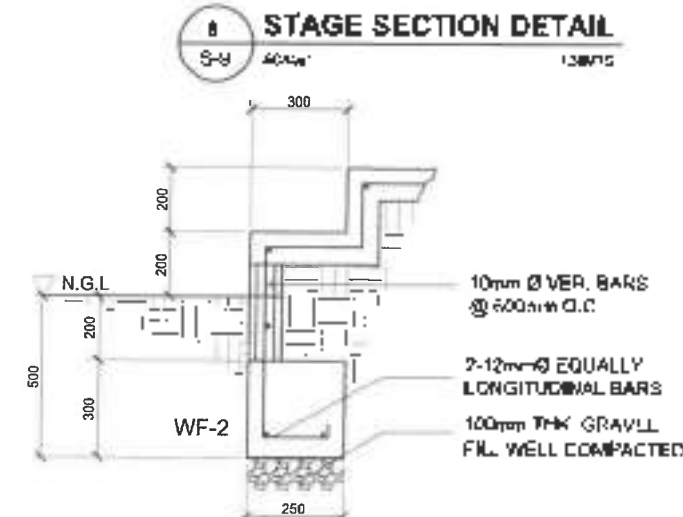
8 STAGE SECTION DETAIL  
S-9 SCALE: 1:30MTS



3 BASE PLATE TO COLUMN DETAIL  
S-9 SCALE: 1:30MTS



6 WF-1 SECTION DETAIL  
S-9 SCALE: 1:30MTS



9 WF-2 SECTION DETAIL  
S-9 SCALE: 1:30MTS



Republic of the Philippines  
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REGIONAL OFFICE No. VII  
NORTHERN SAMAR FIRST  
DISTRICT ENGINEERING OFFICE  
Calbayog, Samar

PROJECT NAME, LOCATION  
CONSTRUCTION OF MULTI-PURPOSE FACILITY,  
(COVERED COURT) BARANGAY SAN JOSE,  
LAJUZAPES, NORTHERN SAMAR  
NORTHERN SAMAR

SHEET CONTENTS:  
1. GENERAL NOTES  
2. CONSTRUCTION DETAILS  
3. MATERIAL SPECIFICATIONS  
4. BILL OF MATERIALS  
5. ESTIMATE  
6. CONTRACT AGREEMENT  
7. PERFORMANCE SECURITY  
8. OTHER DOCUMENTS

PREPARED BY:  
JERRY E. PLODIA  
ENGINEER II

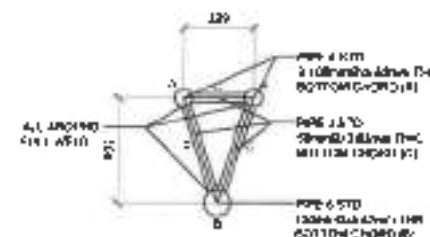
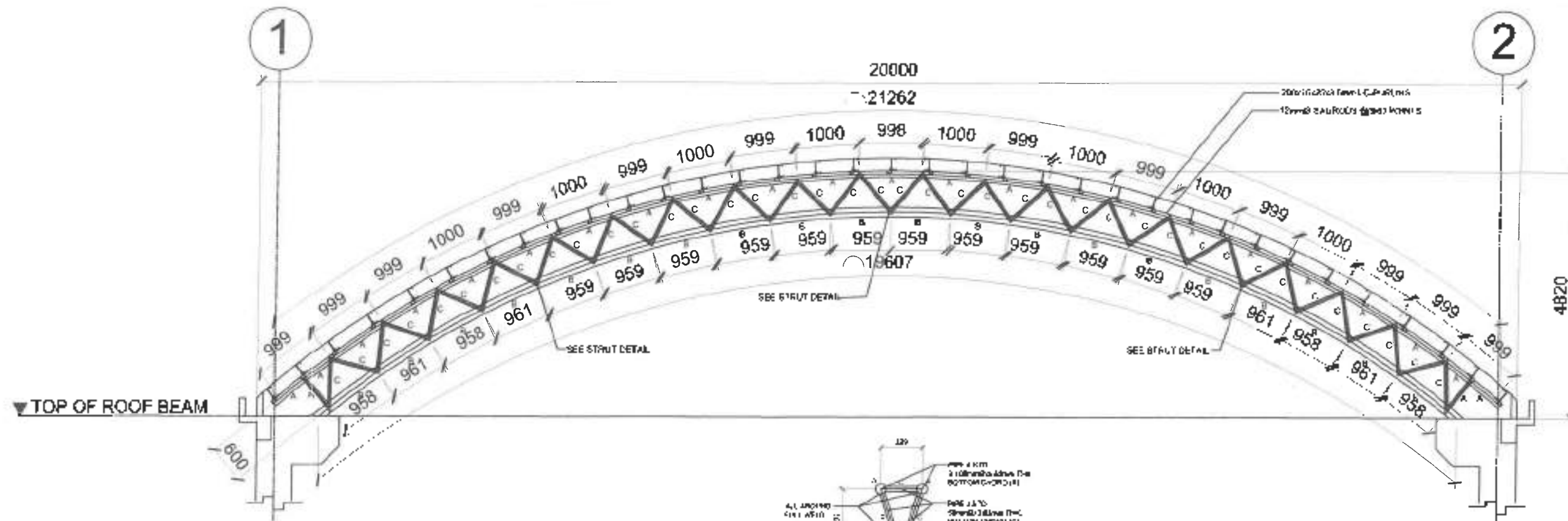
REVIEWED BY:  
ALVIN A. MONACKO  
SUPERVISOR

APPROVED BY:  
ALVIN A. MONACKO  
SUPERVISOR

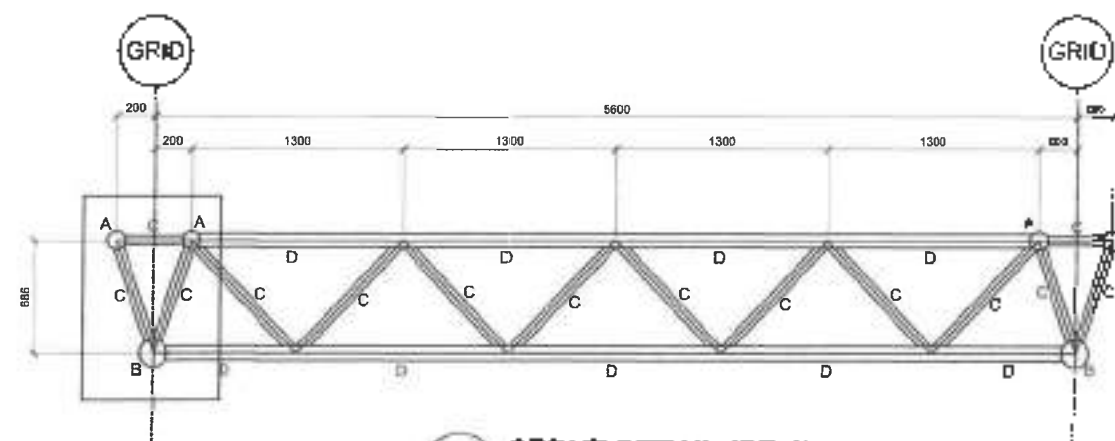
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26/04/2024

DATE:  
26/04/2024

DATE:  
26/04/2024



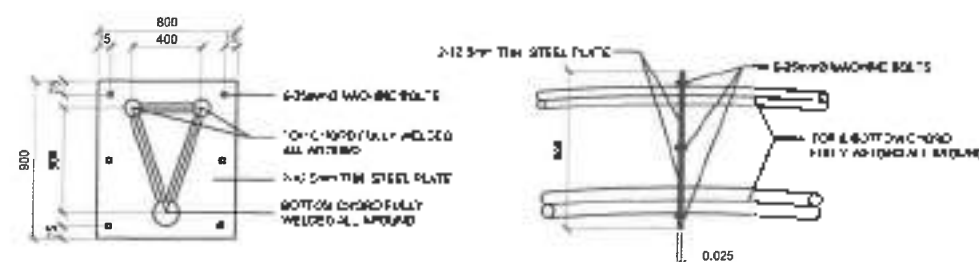
**1 TRUSS DETAIL (T-1)**  
S-10 SCALE 1:30MTS



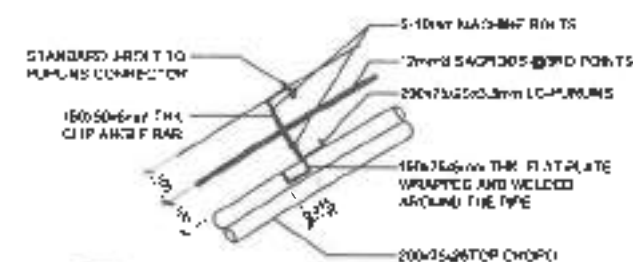
**2 STRUT DETAIL (ST-1)**  
S-10 SCALE 1:30MTS

**SCHEDULE OF MEMBERS & WELDS**

| MARK | TRUSS MEMBER SIZES                                           | WELDS                            | REMARKS                    |
|------|--------------------------------------------------------------|----------------------------------|----------------------------|
| A    | PIPE 4 STD - 4.5"Ø x 0.221" THK. (2pcs-100mmØ x 5.61mm THK.) | 5mm THK., FILLET WELD ALL AROUND | TOP CHORD                  |
| B    | PIPE 6 STD - 6.63"Ø x 0.281" THK. (150mmØ x 6.62mm THK.)     | 6mm THK., FILLET WELD ALL AROUND | BOTTOM CHORD               |
| C    | PIPE 2 STD - 2.38"Ø x 0.143" THK. (50mmØ x 3.63mm THK.)      | 3mm THK., FILLET WELD ALL AROUND | WEB MEMBERS                |
| D    | PIPE 3 STD - 3.50"Ø x 0.20" THK. (75mmØ x 5.10mm THK.)       | 5mm THK., FILLET WELD ALL AROUND | SECONDARY WEB MEMBERS 310" |



**3 TRUSS SPLICING DETAIL (TYP)**  
S-10 SCALE 1:30MTS



**4 PURLIN TO TRUSS CONN. DETAIL**  
S-10 SCALE 1:15MTS



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LATION, NORTHERN SAMAR

PROJECT NAME & LOCATION  
CONSTRUCTION OF MULTIPURPOSE FACILITY  
(COVERED COURT) BARANGAY SAN JOSE  
LA VEGAS, NORTHERN SAMAR  
Lation, Northern Samar

SHEET CONTENTS:  
TRUSS DETAIL  
STRUT DETAIL  
TRUSS SPLICING DETAIL (TYP)  
PURLIN TO TRUSS CONNECTION DETAIL  
SCHEDULE OF MEMBERS AND WELDS  
Notes for construction

PREPARED BY  
DESIGNED BY  
CHECKED BY  
DATE

REVIEWED BY  
DATE

APPROVED BY  
DATE

RECOMMENDED BY  
DATE

APPROVED BY  
DATE

SHEET NO.  
26  
47



1. **GRADES OF HORIZONTAL PIPINGS**  
RUN ALL HORIZONTAL PIPINGS PERFECT ALIGNMENT AND AT A GRADE NOT LESS THAN 2%.
2. **CHANGE IN DIRECTION**  
ALL CHANGE IN DIRECTION SHALL BE MADE APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG WEEP QUARTER BEND, SIXTH EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL AND VERTICAL, A SINGLE  $\frac{1}{8}$  BEND COMBINATION MAY BE USE ON VERTICAL STACK, AND SHORT QUARTER BENDS MAY BE USE ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES.
3. **PROHIBITED FITTINGS:**  
NO DOUBLE HUB OR TEE BRANCE SHALL BE USED ON HORIZONTAL SOIL AND WASTE LINES, THE DRILLINGS AND THE TAPPING OF HOUSE DRAIN, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
4. **PIPE CLEAN-OUTS**  
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
  - a. EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY TWO AND HALF DEGREES ( $22\frac{1}{2}^{\circ}$ ).
  - b. ONE AND ONE-HALF METERS (1.50m) INSIDE THE PROPERTY LINES BEFORE THE HOUSE DRAINAGE CONNECTION.
  - c. EVERY FIFTEEN METER (15.00) IN HORIZONTAL RUN OF PIPES.
  - d. AT THE END OF ANY HORIZONTAL PIPE LINES.
5. **THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.**
6. **NOT LESS THAN 0.30M OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF VAULT ROOF SLAB.**
7. **NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.**
8. **ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.**

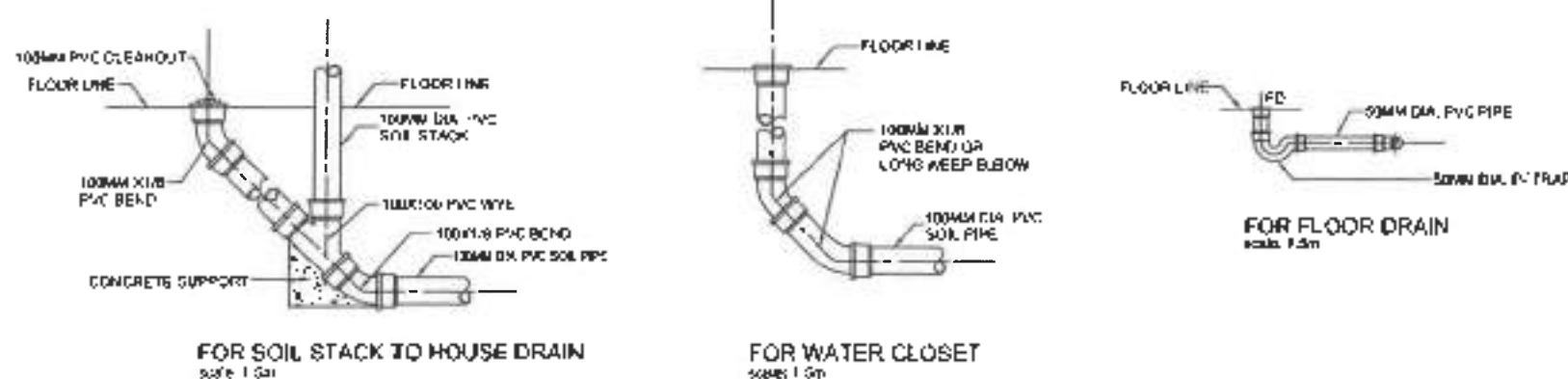
i. LIVE LOAD-----1000Pa  
ii. ALLOWABLE STRESS

a. FOR FOOTING, BEAMS, AND SLABS  
 $f_c' = 20 \text{ MPa}$

 $f_m' = 6.90 \text{ MPa}, f_m = 2.41 \text{ MPa}$ 

FOR BARS SMALLER THAN 16mmØ  
 $f_y = 230 \text{ MPa}$

|       |                                         |
|-------|-----------------------------------------|
| CB    | CATCH BASIN                             |
| CV    | CHECK VALVE                             |
| HB    | HOSE BIBB                               |
| FD    | FLOOD DRAIN                             |
| PPR   | POLYPROPYLENE COLD WATER                |
| PPR   | POLYPROPYLENE HOT WATER                 |
| GV    | GATE VALVE                              |
| MH    | MANHOLE                                 |
| CO    | CLEAN OUT                               |
| PVCSP | POLYVINYL CHLORIDE SOIL PIPE            |
| PVCVC | POLYVINYL CHLORIDE VENT ACROSS CEILING  |
| PVCV  | POLYVINYL CHLORIDE VENT PIPE            |
| PVCVS | POLYVINYL CHLORIDE VENT STACK           |
| VTR   | POLYVINYL CHLORIDE VENT THRU ROOF/WALL  |
| STTR  | POLYVINYL CHLORIDE SOIL STACK THRU ROOF |
| RD    | ROOF DRAIN                              |
| DS    | DOWNSPOUT                               |
| OR    | URINAL DRAIN                            |
| WC    | WATER CLOSET                            |
| LAV   | LAVATORY                                |
| KS    | KITCHEN SINK                            |
| F     | FAUCET                                  |
| GV    | GATE VALVE                              |
| CV    | CHECK VALVE                             |
| WM    | WATER METER                             |
| —     | PLUMBING LINE                           |
| —     | WATER LINE                              |
| —     | STORM LINE                              |
| —     | VENT PIPE                               |

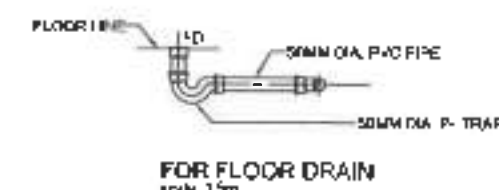
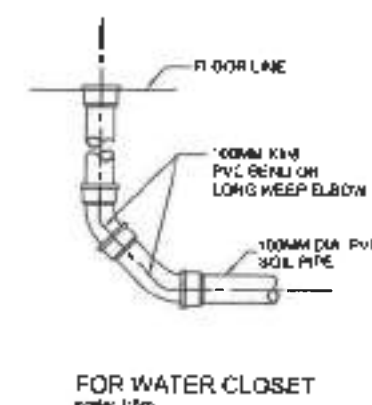
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1. GRADES OF HORIZONTAL PIPINGS  
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  - d. AT THE END OF ANY HORIZONTAL PIPE LINES.
5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
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FOR BARS SMALLER THAN 16mmØ  
 $f_y = 230 \text{ MPa}$

|        |                                         |
|--------|-----------------------------------------|
| CB     | CATCH BASIN                             |
| CV     | CHECK VALVE                             |
| HB     | HOSE BIBB                               |
| FD     | FLOOR DRAIN                             |
| PDR    | POLYPROPYLENE COLD WATER                |
| PPR    | POLYPROPYLENE COLD WATER                |
| GV     | GATE VALVE                              |
| MH     | MANHOLE                                 |
| CO     | CI FAN OUT                              |
| PVCSP  | POLYVINYL CHLORIDE SOIL PIPE            |
| PVCVAC | POLYVINYL CHLORIDE VENT, ACROSS CEILING |
| PVCVW  | POLYVINYL CHLORIDE VENT, PIPE           |
| PVCVS  | POLYVINYL CHLORIDE VENT STACK           |
| VTR    | POLYVINYL CHLORIDE VENT THRU ROOF/WALL  |
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| RD     | ROOF DRAIN                              |
| DS     | DOWNSPOUT                               |
| UR     | URINAL DRAIN                            |
| WC     | WATER CLOSET                            |
| LAV    | LAVATORY                                |
| KS     | KITCHEN SINK                            |
| F      | FAUCET                                  |
| +      | GATE VALVE                              |
| ~      | CHECK VALVE                             |
| ⊙      | WATER METER                             |
| ----   | PLUMBING LINE                           |
| =====  | WATER LINE                              |
| ----   | STORM LINE                              |
| ----   | VENT PIPE                               |



### PIPE LINE CONNECTION DETAIL







