



ELEV= ± 22.15 APEX /PARAPET LINE  
ELEV= ± 21.17 ROOF DECK ZOCALO  
ELEV= ± 20.45 ROOF DECK FFL

ELEV= ± 16.10 FIFTH FFL  
ELEV= ± 15.30 FOURTH FLR CL.

ELEV= ± 12.30 FOURTH FFL  
ELEV= ± 11.50 THIRD FLR CL.

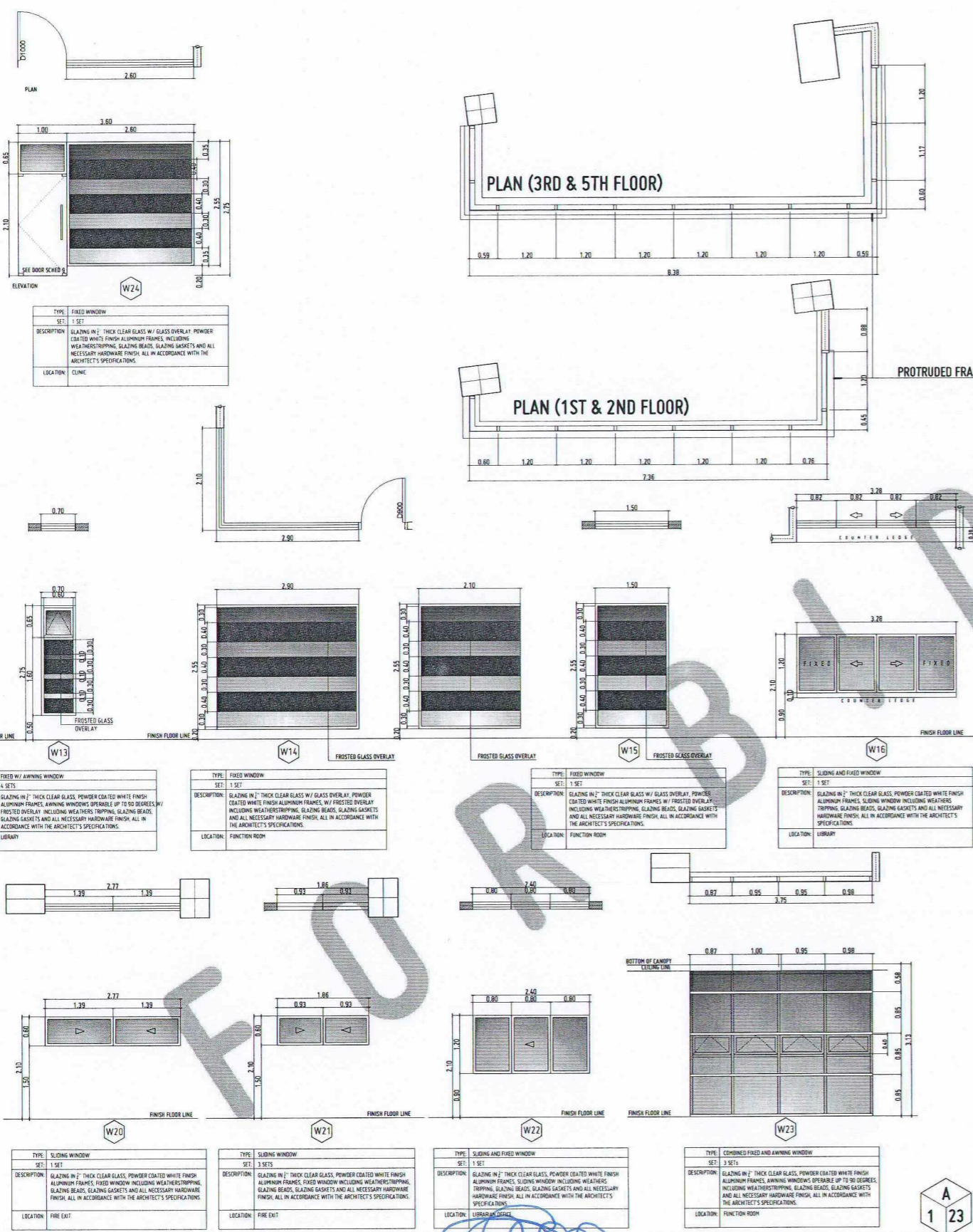
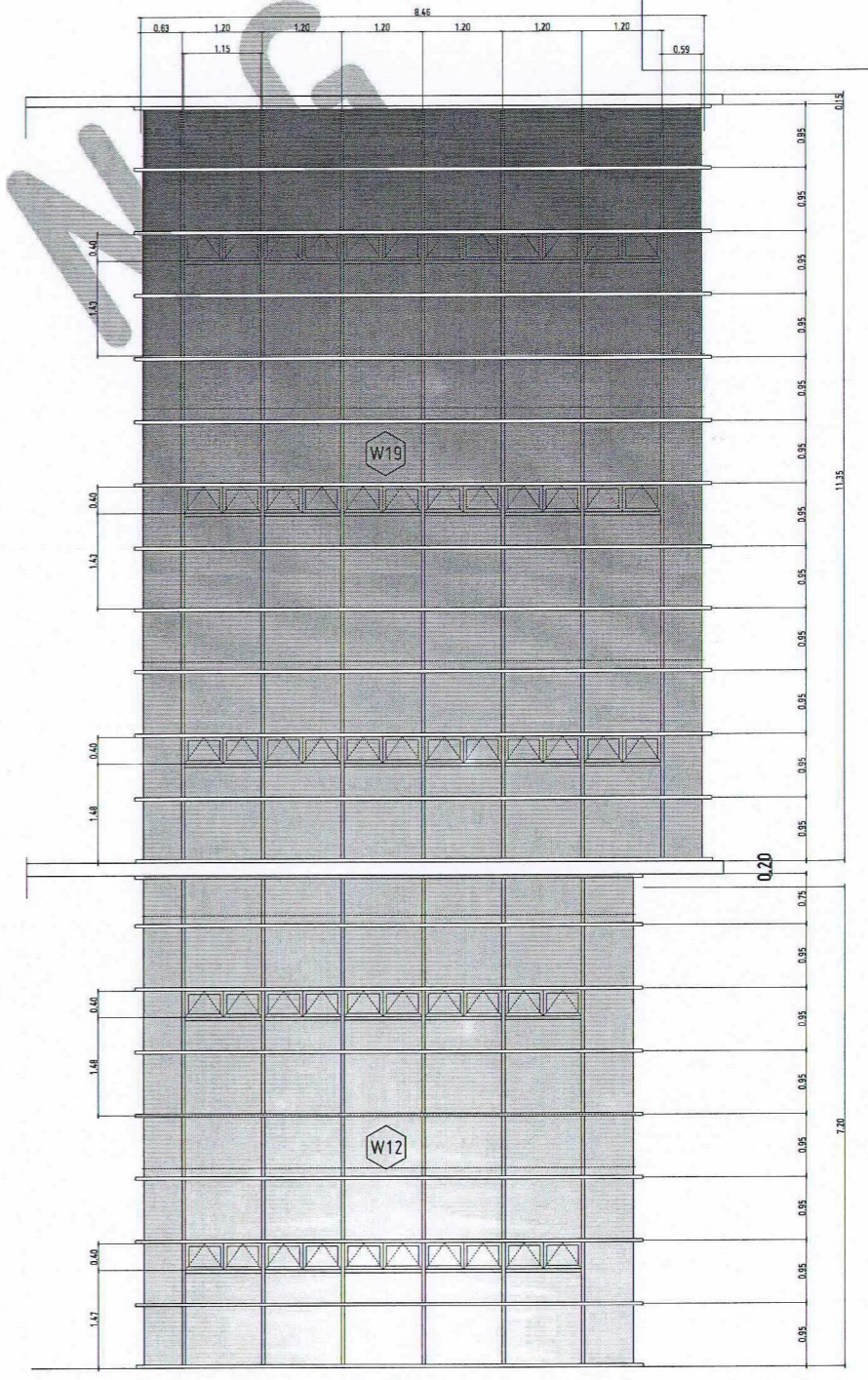
ELEV= ± 8.50 THIRD FFL  
ELEV= ± 7.70 SECOND FLR CL.

ELEV= ± 4.70 SECOND FFL  
ELEV= ± 3.90 GROUND FLR CL.

ELEV= ± 0.90 GROUND FFL  
ELEV= ± 0.15 SIDE WALK LINE  
ELEV= ± 0.00 ROAD PAVEMENT LINE

**SCHEDULE OF WINDOWS**

SCALE: 1:50 MTS



A  
1 23



REPUBLIC OF THE PHILIPPINES  
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES  
CAGAYAN DE ORO CAMPUS  
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT  
CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000  
TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696  
WEBSITE: www.ustp.edu.ph

**FERDINAND A. DUMPA**  
ARCHITECT OF RECORD  
PRC NO. 013229 PTR NO. 6589271  
DATE 02-10-2026  
TIN 185-092-837 PLACE CAGAYAN DE ORO

PROPOSED CONSTRUCTION OF SMART ACADEMIC BUILDING  
PHASE 1, JASAAN CAMPUS  
LOCATION USTP JASAAN CAMPUS, HISAMIS ORIENTAL  
OWNER UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:  
ENGR. GRACE C. BABA  
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:  
ATTY. ERWIN B. BUENO  
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:  
DR. AMBROSIO B. CULTURA II  
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:  
SCHEDULE OF WINDOWS

DRAWN BY:  
DATE DRAWN:  
10.01.2025  
FNT:

A23

ELEV= ± 24.05 ROOF AT FIRE EXIT

ELEV= ± 22.15 APEX /PARAPET LINE

ELEV= ± 21.17 ROOF DECK ZOCALO

ELEV= ± 20.45 ROOF DECK FFL

ELEV= ± 16.10 FIFTH FFL

ELEV= ± 15.30 FOURTH FLR CL.

ELEV= ± 12.30 FOURTH FFL

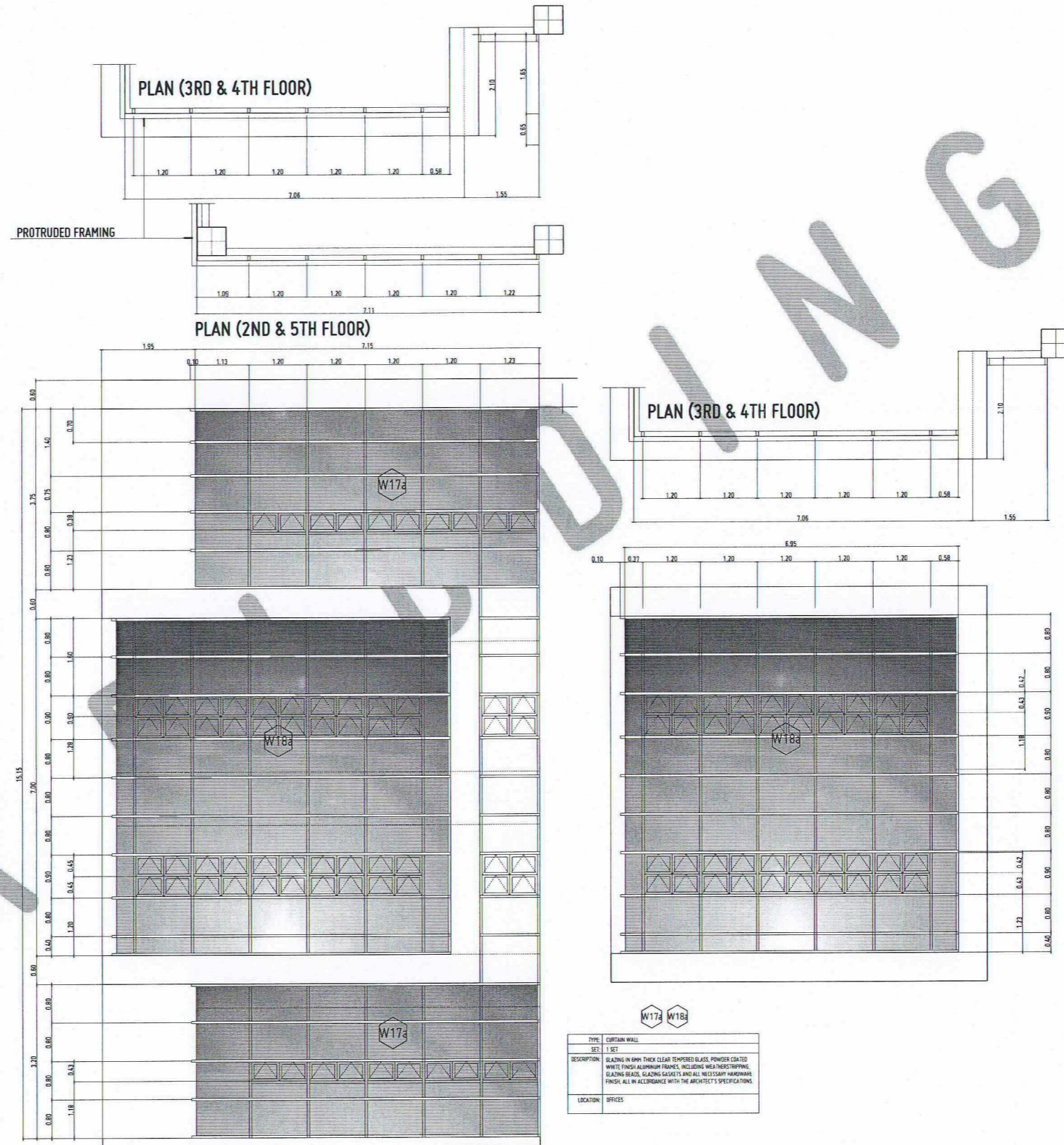
ELEV= ± 11.50 THIRD FLR CL.

ELEV= ± 8.50 THIRD FFL

ELEV= ± 7.70 SECOND FLR CL.

ELEV= ± 4.70 SECOND FFL

ELEV= ± 3.90 GROUND FLR CL.



|             |   |
|-------------|---|
| TYPE        | CURTAIN WALL  |
| SET         | 1 SET   |
| DESCRIPTION | GLAZING IN 6MM THICK CLEAR TEMPERED GLASS, POWDER COATED WHITE FINISH ALUMINUM FRAMES, INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS AND ALL NECESSARY HARDWARE FINISH ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS |
| LOCATION    | OFFICES   |

|              |                            |
|--------------|----------------------------|
| A<br>1<br>24 | <b>SCHEDULE OF WINDOWS</b> |
|              | SCALE: 1:50 MTS            |

- GENERAL NOTES:
- FFL - FINISH FLOOR LINE. VERIFY FLOOR FINISHES/MATERIALS.
  - ALL INTERIOR PARTITIONS AND FURNITURE LAYOUT ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY INTERIOR DESIGN DRAWINGS.
  - ALL LANDSCAPE ARCHITECTURE ELEMENTS ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY LANDSCAPE ARCHITECTURE DRAWINGS.
  - DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TO GOVERN.
  - IN CASE OF DISCREPANCY IN THE FIGURES AND DRAWINGS THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ADJUSTMENTS ARE TO BE MADE.
  - VERIFY ACTUAL TECHNICAL SITE CONDITIONS.
  - VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORK.
  - ALL WORKS HEREIN SHALL BE DONE UNDER THE STRICT SUPERVISION OF DULY LICENSED AND EXPERIENCED ARCHITECT/ENGINEER.
  - LOT AND BUILDING BOUNDARIES SHOULD BE SUPPORTED BY RETAINING WALLS AND FENCES. VERIFY EXISTING HEIGHTS, ELEVATIONS AND OTHER SITE CONDITIONS.
  - THE GENERAL CONTRACTOR, SUB-CONTRACTORS INCLUDING SPECIALTY CONTRACTORS, SHALL SUBMIT PROPOSAL DRAWINGS INCLUDING MATERIALS SAMPLE PRIOR TO INSTALLATIONS FOR ARCHITECT'S APPROVAL.

- IMPORTANT NOTES:
- CHECK AND VERIFY ACTUAL SITE CONDITION BEFORE CONSTRUCTION. CHECK AND REVIEW PLANS, AND IF THERE ARE CONFLICTS BETWEEN DRAWINGS, BOB, BOM, AND TECHNICAL SPECIFICATIONS, INFORM THE UPDO THRU UPD, BEFORE PROCUREMENT AND INSTALLATION OF CERTAIN ITEMS AND MATERIALS.
  - BEFORE INSTALLATION OF MATERIALS, ESPECIALLY ARCHITECTURAL FINISHES OR MATERIALS THAT WILL GREATLY AFFECT THE CONSTRUCTION, INFORM THE UPDO THRU UPD (FOR INFORMATION) AND RFA (FOR MATERIAL APPROVAL) BEFORE PROCUREMENT AND INSTALLATION OF CERTAIN ITEMS AND MATERIALS.
  - FOR ANY CONFLICT BETWEEN ARCHITECTURAL PLANS AND OTHER UTILITIES, INFORM THE UPDO DESIGN ARCHITECT AND/OR ENGINEERS TO RESOLVE DESIGN ISSUE.

FIFTH FFL  
ELEV= ± 16.10

FOURTH FFL  
ELEV= ± 12.30

THIRD FFL  
ELEV= ± 8.50



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**FERDINAND A. DUMPA**  
ARCHITECT OF RECORD  
PRC NO. 113275 PTR. NO. 6599271  
DATE 02-10-2026  
TIN 185-092-837 PLACE CAGAYAN DE ORO

PROJECT  
**PROPOSED CONSTRUCTION OF SMART ACADEMIC BUILDING PHASE 1, JASAAN CAMPUS**  
LOCATION  
USTP JASAAN CAMPUS, MISAMIS ORIENTAL  
OWNER  
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:  
*Grace C. Baba*  
**ENGR. GRACE C. BABA**  
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:  
*Erwin B. Bucio*  
**ATTY. ERWIN B. BUCIO**  
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:  
*Dr. Ambrosio B. Cultura II*  
**DR. AMBROSIO B. CULTURA II**  
PRESIDENT, USTP SYSTEM

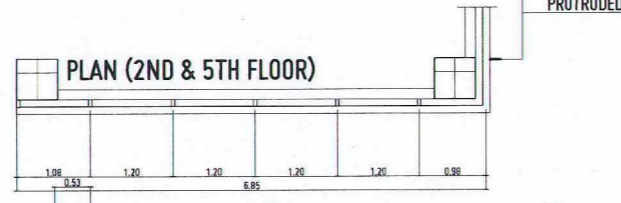
SHEET CONTENTS:  
SCHEDULE OF WINDOWS

DRAWN BY:  
DATE DRAWN:  
10.01.2025  
PNT:

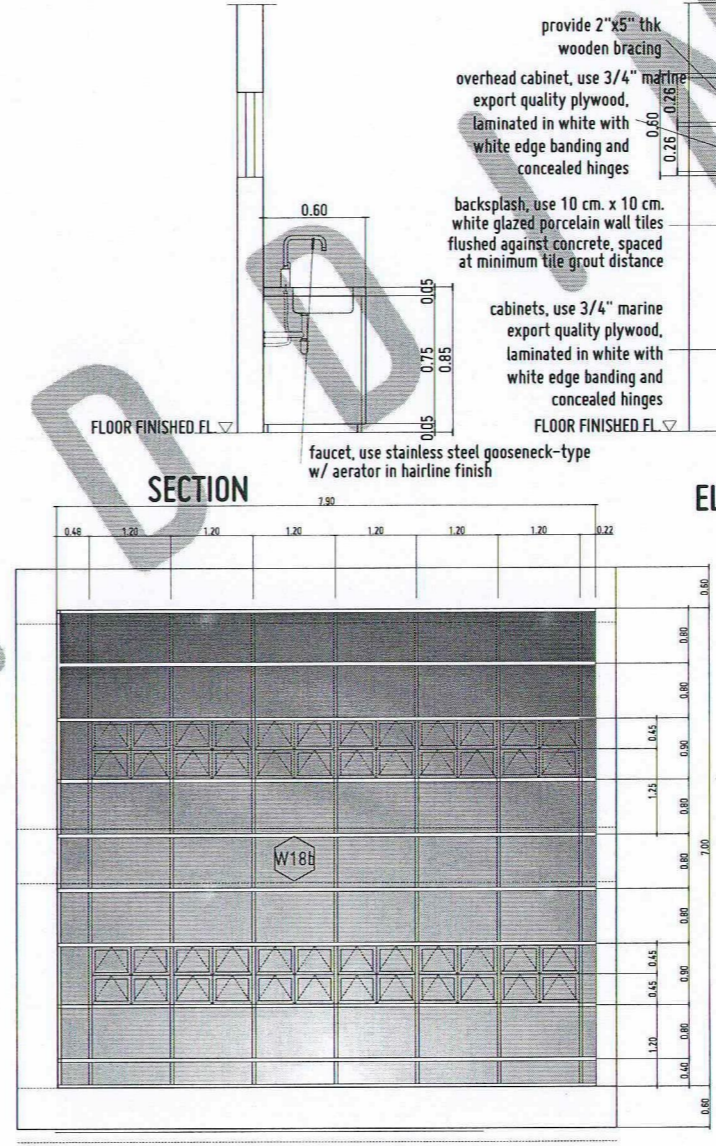
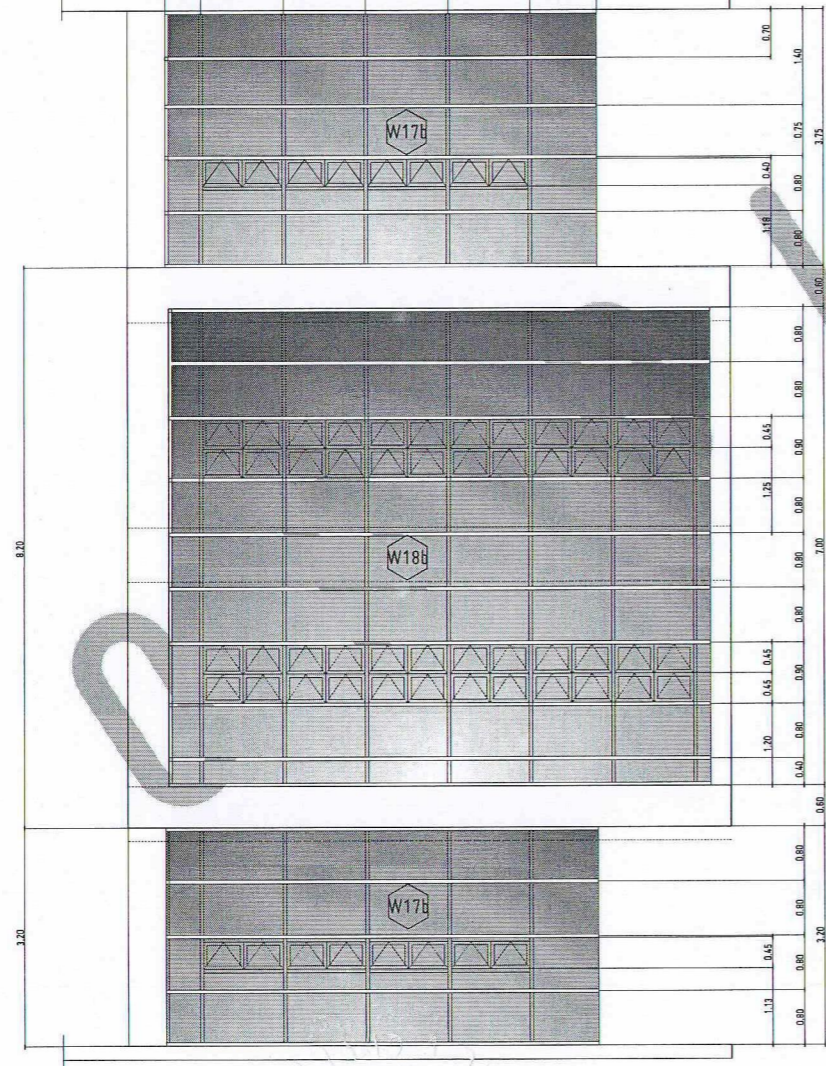


- GENERAL NOTES:
1. FFL - FINISH FLOOR LINE, VERIFY FLOOR FINISHES/MATERIALS.
  2. ALL INTERIOR PARTITIONS AND FURNITURE LAYOUT ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY INTERIOR DESIGN DRAWINGS.
  3. ALL LANDSCAPE ARCHITECTURE ELEMENTS ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY LANDSCAPE ARCHITECTURE DRAWINGS.
  4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TO GOVERN.
  5. IN CASE OF DISCREPANCY IN THE FIGURES AND DIMENSIONS THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ADJUSTMENTS ARE TO BE MADE.
  6. VERIFY ACTUAL TECHNICAL SITE CONDITIONS.
  7. VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORK.
  8. ALL WORKS HEREIN SHALL BE DONE UNDER THE STRICT SUPERVISION OF DULY LICENSED AND EXPERIENCED ARCHITECT/ENGINEER.
  9. LOT AND BUILDING BOUNDARIES SHOULD BE SUPPORTED BY RETAINING WALLS AND FENCES. VERIFY EXISTING HEIGHTS, ELEVATIONS AND OTHER SITE CONDITIONS.
  10. THE GENERAL CONTRACTOR, SUB-CONTRACTORS INCLUDING SPECIALTY CONTRACTORS, SHALL SUBMIT PROPER SHOP DRAWINGS INCLUDING MATERIALS SAMPLE PRIOR TO INSTALLATIONS FOR ARCHITECT'S APPROVAL.

- IMPORTANT NOTES:
1. CHECK AND VERIFY ACTUAL SITE CONDITION BEFORE CONSTRUCTION.
  2. CHECK AND REVEAL PLANS, AND IF THERE ARE CONFLICTS BETWEEN DRAWINGS, BOQ, BIM, AND TECHNICAL SPECIFICATIONS, INFORM THE IPROU THRU IPF, BEFORE PROCUREMENT AND INSTALLATION OF CERTAIN ITEMS AND MATERIALS.
  3. BEFORE INSTALLATION OF MATERIALS, ESPECIALLY ARCHITECTURAL FINISHES OR MATERIALS THAT WILL GREATLY AFFECT THE CONSTRUCTION, INFORM THE IPROU THRU IPF (FOR INFORMATION) AND RFA (FOR MATERIAL APPROVAL) BEFORE PROCUREMENT AND INSTALLATION OF CERTAIN ITEMS AND MATERIALS.
  4. FOR ANY CONFLICTS BETWEEN ARCHITECTURAL PLANS AND OTHER UTILITIES, INFORM THE IPROU BESIDE ARCHITECT AND/OR ENGINEERS TO RESOLVE DESIGN ISSUE.



- ELEV= ± 24.05 ROOF AT FIRE EXIT
- ELEV= ± 22.15 APEX /PARAPET LINE
- ELEV= ± 21.17 ROOF DECK ZOCALO
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- ELEV= ± 7.70 SECOND FLR CL.
- ELEV= ± 4.70 SECOND FFL
- ELEV= ± 3.90 GROUND FLR CL.



ELEVATION OFFICE SINK DETAIL

FIFTH FFL  
ELEV= ± 16.10

FOURTH FFL  
ELEV= ± 12.30

THIRD FFL  
ELEV= ± 8.50

SCHEDULE OF WINDOWS

| TYPE | DESCRIPTION   | LOCATION |
|------|---|----------|
| W17B | CURTAIN WALL  | OFFICES  |
| W18B | GLAZING IN 6MM THICK CLEAR TEMPERED GLASS, POWDER COATED WHITE FINISH ALUMINUM FRAMES, INCLUDING WEATHERSTRIPPING, GLAZING BEADS, GLAZING GASKETS AND ALL NECESSARY HARDWARE FINISH ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS | OFFICES  |



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**FERDINAND A. DUMPA**  
ARCHITECT OF RECORD  
PRC NO. 013325 / PTR NO. 8589271  
DATE 02-10-2026  
TIN 185-092-837 PLACE CAGAYAN DE ORO

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PHASE 1, JASAAN CAMPUS  
USTP JASAAN CAMPUS, MISAMIS ORIENTAL  
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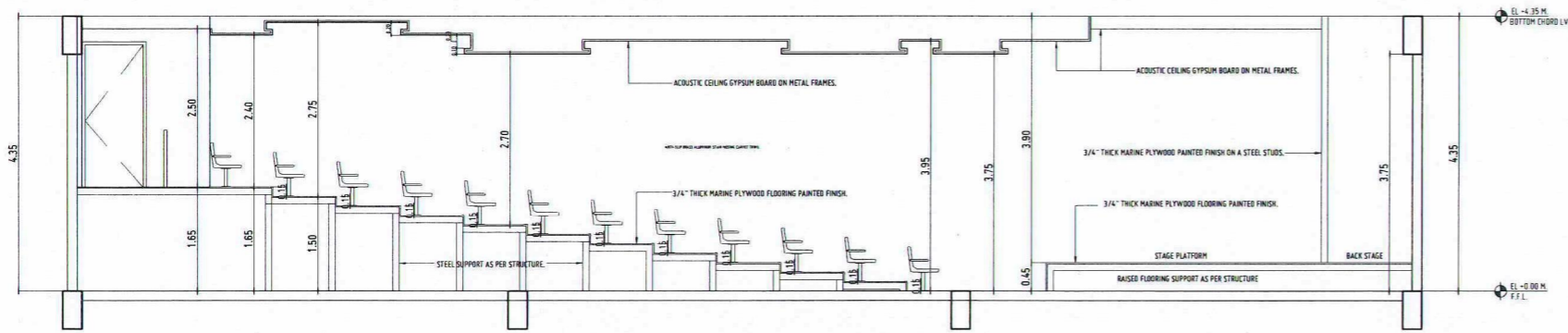
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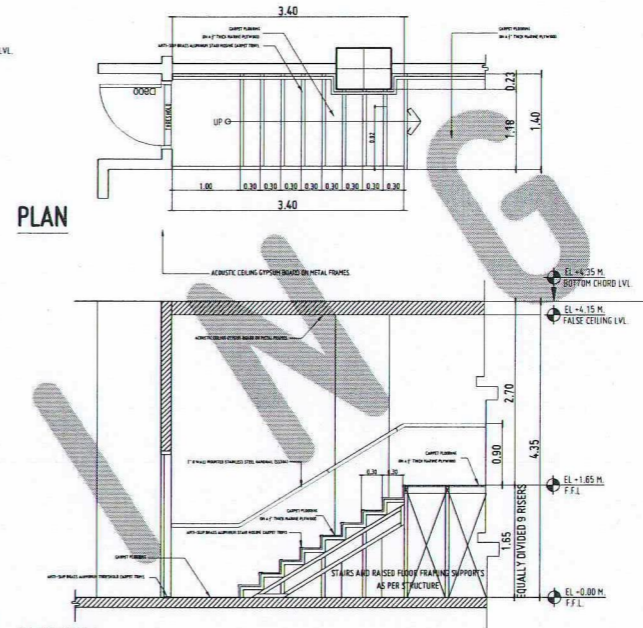
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OFFICE SINK DETAIL

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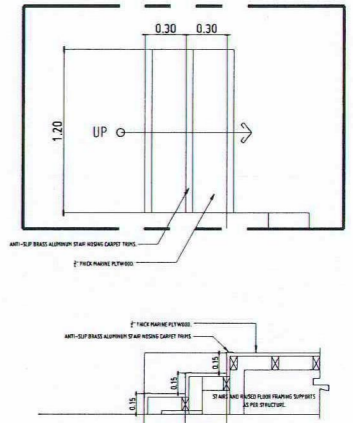




**A**  
**1 26**  
**AVR-SECTION**  
SCALE 1:50 MTS

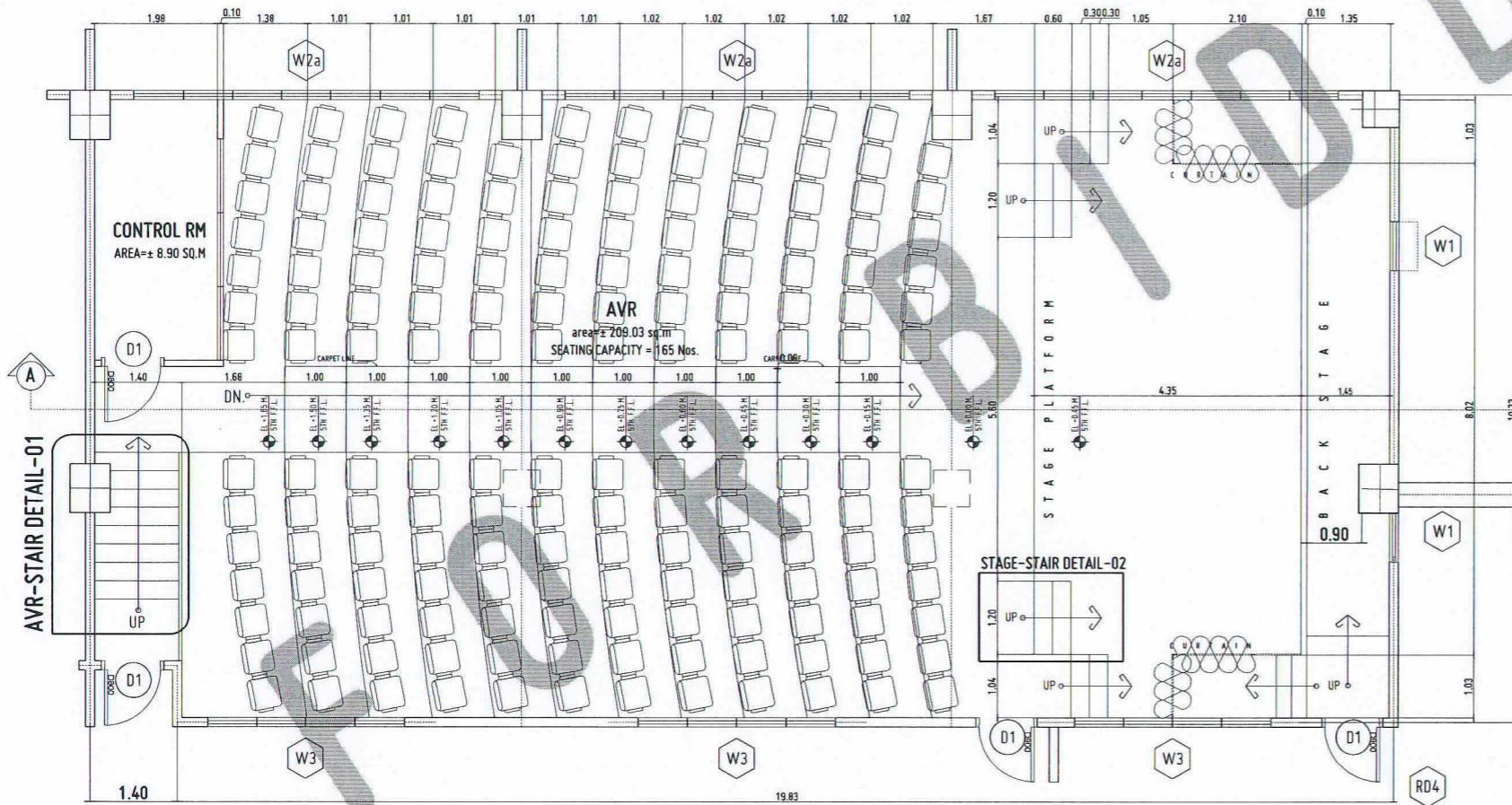


**A**  
**3 26**  
**AVR-STAIR DETAIL-01**  
SCALE 1:50 MTS

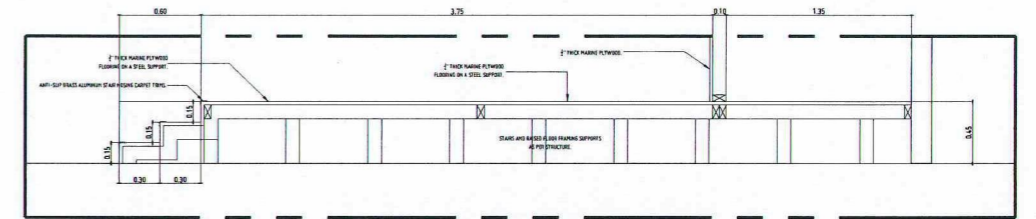


**A**  
**4 26**  
**STAGE-STAIR DETAIL-02**  
SCALE 1:25 MTS

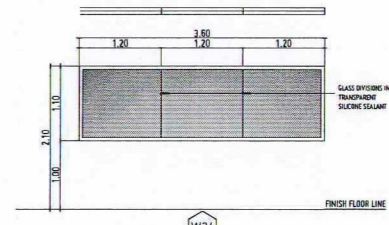
SECTION



**A**  
**2 26**  
**AVR-FLOOR PLAN**  
SCALE 1:50 MTS

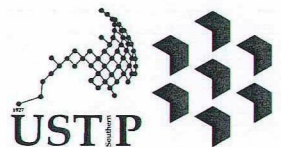


**A**  
**5 26**  
**STAGE SECTION DETAIL-03**  
SCALE 1:25 MTS



**A**  
**6 26**  
**CONTROL ROOM WINDOW**  
SCALE 1:25 MTS

|              |  |
|--------------|--|
| TYPE:        | FIXED WINDOW   |
| SET:         | 1 SET  |
| DESCRIPTION: | GLAZING IN 2" THICK CLEAR GLASS, FINISHER COATED WHITE FINISH ALUMINUM FRAMES WITH ACUSTIC PROTECTION. |
| LOCATION:    | CONTROL ROOM-SF  |



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**Ferdinand A. Bumpa**  
ARCHITECT OF RECORD  
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PROPOSED CONSTRUCTION OF SMART ACADEMIC BUILDING  
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APPROVED BY:  
**DR. AMBROSIO B. CULTURA II**  
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:  
AVR DETAILS

DRAWN BY:  
DATE DRAWN:  
10.01.2025  
PMT:



**A26**

# GENERAL NOTES

## 1. GENERAL

- THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OR CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ROYAL COMMISSION.
- LOADING(S) APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

## 2. DESIGN CRITERIA

- STANDARDS
  - THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE OF STANDARD PRACTICE:
    - NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP - vol. 1, 2015 7th ed)
    - ASSOCIATION OF STRUCTURAL ENGINEERS OF THE PHILIPPINES
    - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
    - AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE STANDARD 7-02, 2nd ed)
- MATERIALS
  - THE FOLLOWING STRUCTURAL MATERIALS AND THEIR CORRESPONDING STRENGTH ARE ADOPTED IN THE DESIGN:
 

|  |                          |
|--|--------------------------|
| A. CONCRETE (CYLINDER STRENGTH AT 28 DAYS)       | $f_c = 27.6 \text{ MPa}$ |
| B. CONCRETE BULKING                              | $f_c = 20 \text{ MPa}$   |
| C. REINFORCING BARS                              | $f_y = 414 \text{ MPa}$  |
| D. CONCRETE MASONRY UNITS                        | $f_m = 14 \text{ MPa}$   |
| E. STRUCTURAL STEEL PLATES AND SHAPES - ASTM A36 | $F_y = 248 \text{ MPa}$  |
| F. ANCHOR BOLTS - ASTM A307                      | $F_y = 228 \text{ MPa}$  |
- DESIGN LOADS
  - DEAD LOADS: DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN ARE AS FOLLOWS:
 

|  |                        |
|--|------------------------|
| A. CONCRETE                                  | 24 KN/M <sup>2</sup>   |
| B. 50 MM FLOOR TOPPING - FINISH              | 1.7 KN/M <sup>2</sup>  |
| C. 100 MM CONCRETE MASONRY UNITS             | 2.70 KN/M <sup>2</sup> |
| D. 150 MM CONCRETE MASONRY UNITS             | 3.30 KN/M <sup>2</sup> |
| E. ROOF TOPPING - WATERPROOFING - INSULATION | 2.50 KN/M <sup>2</sup> |
  - LIVE LOADS: DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN ARE AS FOLLOWS:
 

|                                  |  |
|----------------------------------|--|
| A. FLOOR LIVE LOAD               | 2.0 KN/M <sup>2</sup>  |
| B. ROOF LIVE LOAD                | CONCRETE ROOF 1.0 KN/M <sup>2</sup><br>STEEL ROOF 60 KN/M <sup>2</sup> |
| C. CORRIDORS, STAIRS & BALCONIES | 3.8 KN/M <sup>2</sup>  |

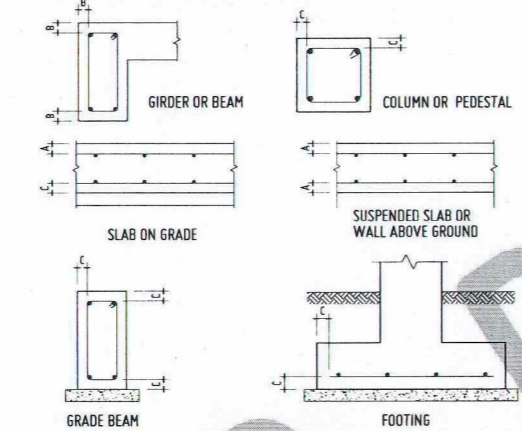
## 3. FOUNDATION

- FOUNDATION SHALL BE DESIGNED BASED ON THE GEO-TECHNICAL INVESTIGATION REPORT. THE GENERAL CONTRACTOR SHALL CONDUCT HIS OWN GEO-TECHNICAL TEST TO VERIFY THE DESIGN IS SAFE AND IS ACCORDANCE TO THE GEO-TECHNICAL SOIL TEST RESULT REPORT.
- SITE PREPARATION
  - ALL VEGETATION, DEBRIS AND SURFACE SOILS CONTAINING ORGANIC MATERIALS SHALL BE REMOVE FROM THE SITE.
  - THE EXPOSED SUB-GRADE SHALL BE DENSIFIED PRIOR TO PLACING ANY FILL. THE DENSIFICATION SHALL BE ACHIEVED BY COMPACTION, AND SHALL CONTINUE UNTIL THE SOIL DENSITY, 300 MM BELOW THE EXISTING SUB-GRADE, IS AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
  - IF THE COMPACTED SOILS ARE DUE TO CONSTRUCTION ACTIVITIES, THESE SOILS SHALL BE RE-COMPACTED AND RE-TESTED.
- GROUND WATER TABLE:
  - THE CONTRACTOR'S ATTENTION IS DRAWN TO GROUNDWATER ELEVATIONS INDICATED OR DISCUSSED IN THE GEO-TECHNICAL REPORT. WELL-POINTS MAYBE NEEDED SO THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 500 MM BELOW THE BOTTOM OF FOOTINGS DURING COMPACTION AND CONSTRUCTION.
- THE SIDES OF FOOTINGS SHALL BE FORMED. EXCAVATED SOILS TO FORM THE SIDES OF FOOTINGS ARE NOT ACCEPTABLE.
- TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR DETAILS. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.
- NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING PERMANENT CONSTRUCTION.

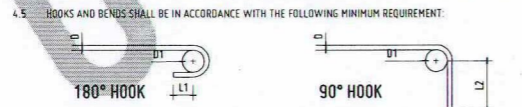
## 4. CONCRETE CONSTRUCTION

- NO SPLICES SHALL BE PERMITTED IN FLEXURAL MEMBER REINFORCEMENT AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS.
- WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS.
- IF SLABS ARE REINFORCED BOTH WAYS (TWO-WAY SPANNING SLABS), THE BARS ALONG THE SHORT SPAN SHALL BE AT THE LOWER LAYER FOR BOTTOM BARS, AND UPPER LAYER FOR TOP BARS.
- UNLESS OTHERWISE NOTED, THE FOLLOWING CLEAR CONCRETE COVER OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-14. CLEAR COVER REQUIREMENTS AND USED AS FOLLOWS:
 

|               |                             |                                 |
|---------------|-----------------------------|---------------------------------|
| MEMBER        | EXPOSED TO WEATHER OR EARTH | NOT EXPOSED TO WEATHER OR EARTH |
| SLAB ON GRADE | 50                          | 25                              |
| SLAB ON GRADE | 50                          | 40                              |
| SLAB ON GRADE | 75                          | 50                              |



| CLEAR COVER | CAST-IN-PLACE CONCRETE      |                                 | PRECAST CONCRETE |                    |
|-------------|-----------------------------|---------------------------------|------------------|--------------------|
|             | EXPOSED TO WEATHER OR EARTH | NOT EXPOSED TO WEATHER OR EARTH | EXPOSED TO EARTH | EXPOSED TO WEATHER |
| A           | 50                          | 25                              | 75               | 30                 |
| B           | 50                          | 40                              | 75               | 20                 |
| C           | 75                          | 50                              | 75               | 30                 |

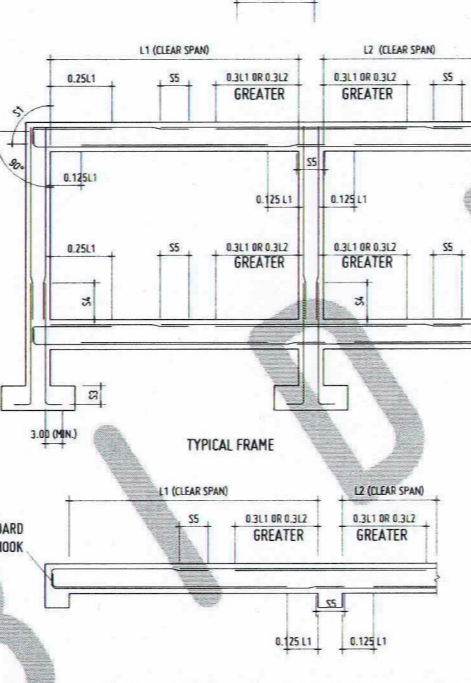


| BARS (MM) | MAIN REINFORCEMENT    |           |         |
|-----------|-----------------------|-----------|---------|
|           | MINIMUM BEND DIAMETER | EXTENSION |         |
| #8        | 50                    | L1 (MM)   | L2 (MM) |
| #10       | 60                    | 60        | 125     |
| #12       | 70                    | 60        | 145     |
| #14       | 85                    | 60        | 170     |
| #16       | 95                    | 65        | 190     |
| #18       | 110                   | 70        | 215     |
| #20       | 120                   | 80        | 240     |
| #22       | 130                   | 90        | 265     |
| #25       | 150                   | 100       | 300     |
| #28       | 225                   | 110       | 335     |



| BARS (MM) | STIRRUPS AND TIES     |           |
|-----------|-----------------------|-----------|
|           | MINIMUM BEND DIAMETER | EXTENSION |
| #8        | 30                    | 50        |
| #10       | 40                    | 60        |
| #12       | 50                    | 70        |
| #14       | 55                    | 85        |
| #16       | 65                    | 95        |

4.6 UNLESS OTHERWISE INDICATED, THE FOLLOWING MINIMUM DEVELOPMENT AND LAP LENGTH SHALL BE USED



| BARS (MM) | MIN. DEVELOPMENT LENGTH |         |                |         | MIN. LAP LENGTH |                |
|-----------|-------------------------|---------|----------------|---------|-----------------|----------------|
|           | IN TENSION              |         | IN COMPRESSION |         | IN TENSION      | IN COMPRESSION |
|           | S1 (MM)                 | S2 (MM) | S3 (MM)        | S4 (MM) | S5 (MM)         | S6 (MM)        |
| #8        | 420                     | 325     | 200            | 420     | 300             | 300            |
| #10       | 525                     | 405     | 210            | 525     | 300             | 300            |
| #12       | 630                     | 485     | 250            | 630     | 355             | 355            |
| #14       | 735                     | 565     | 295            | 735     | 410             | 410            |
| #16       | 840                     | 645     | 335            | 840     | 470             | 470            |
| #18       | 945                     | 725     | 380            | 945     | 530             | 530            |
| #20       | 1050                    | 805     | 420            | 1050    | 590             | 590            |
| #22       | 1440                    | 1110    | 460            | 1440    | 650             | 650            |
| #25       | 1640                    | 1260    | 525            | 1640    | 735             | 735            |
| #28       | 1833                    | 1410    | 590            | 1833    | 825             | 825            |
| #30       | 1965                    | 1510    | 630            | 1965    | 880             | 880            |
| #32       | 2095                    | 1615    | 670            | 2095    | 940             | 940            |

- NOTES:
- THE INDICATED MINIMUM DEVELOPMENT AND LAP LENGTH IS FOR CLASS 25 CONCRETE. FOR  $f_c$  OTHER THAN 25 MPa, THE VALUES OF S1, S2, S3, AND S4 SHALL BE MULTIPLIED BY  $\sqrt{f_c/25}$ .
  - WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INDICATED VALUE OF S1 AND S2 SHALL BE MULTIPLIED BY 1.3, HOWEVER WHEN THE AVERAGE SPLITTING TENSILE STRENGTH OF LIGHTWEIGHT AGGREGATE CONCRETE ( $f_{ct}$ ) IS SPECIFIED, S1 AND S2 SHALL BE PERMITTED TO BE MULTIPLIED BY  $\sqrt{f_{ct}/25}$  BUT NOT LESS THAN 1.0.
  - FOR EPOXY COATED BARS, S1 AND S2 SHALL BE MULTIPLIED BY 1.3.
  - LAP AND DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE, SHALL BE THAT FOR INDIVIDUAL BAR INCREASED BY 20% FOR THREE BAR BUNDLE, 33% FOR FOUR BAR BUNDLE.

## 5. MASONRY

- MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5.
- MASONRY EXPANSION AND CONTROL JOINT REQUIREMENTS SHALL BE AS INDICATED.
- UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND.
- REINFORCING BARS SHALL BE PROVIDED OF THE GIVEN SIZE AND SPACING AS INDICATED. PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES.
- REBAR DOWELS SHALL BE PROVIDED FROM FOUNDATIONS TO MATCH VERTICAL BARS.
- LINTEL BEAM SHALL BE PROVIDED ABOVE ALL WALL OPENINGS.

## 6. STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16.

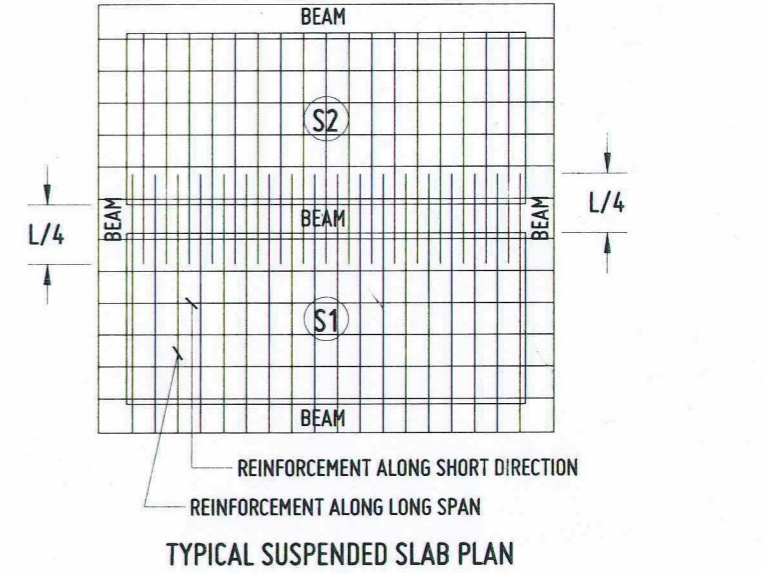
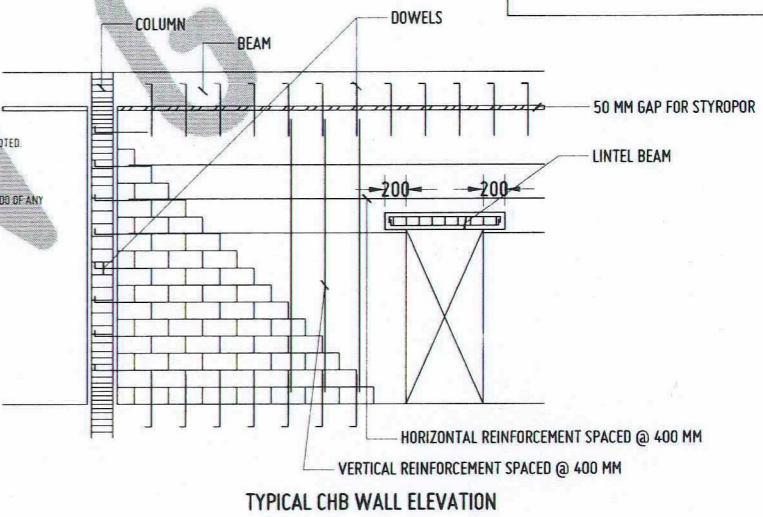
## 7. NOTES FOR DRAWING NOMENCLATURES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- INDICATED DIMENSION SHALL PREVAIL AGAINST SEALED DIMENSION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS. SHALL NOTIFY THE IPEED OF ANY DISCREPANCY.
- ALL REINFORCING BARS SHALL BE READ AS FOLLOWS:
 

|              |                            |                   |
|--------------|----------------------------|-------------------|
| BAR DIAMETER | 94 - #20 - MK8 - 200 - TOP | LAYER OR LOCATION |
| QUANTITY     |                            | SPACING OF BARS   |

## 8. ABBREVIATIONS

|         |  |
|---------|--|
| ACI     | AMERICAN CONCRETE INSTITUTE                |
| ADD'L   | ADDITIONAL                                 |
| AL      | ALTERNATELY PLACED                         |
| AR      | ALTERNATELY REVERSED                       |
| AS      | ALTERNATELY STAGGERED                      |
| ASTM    | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| AWS     | AMERICAN WELDING SOCIETY                   |
| B       | BOTTOM                                     |
| BP      | BACK FACE                                  |
| BW      | BOTHWAYS                                   |
| CL      | CENTER LINE                                |
| CLR     | CLEAR                                      |
| CMU     | CONCRETE MASONRY UNIT                      |
| CONC    | CONCRETE                                   |
| CONT    | CONTINUOUS                                 |
| DA      | DIAMETER                                   |
| DISCONT | DISCONTINUOUS                              |
| DTL     | DETAIL                                     |
| DWG     | DRAWING                                    |
| EF      | EACH FACE                                  |
| EL      | EXISTING LEVEL                             |
| ELEV    | ELEVATION                                  |
| EQ      | EQUAL                                      |
| EW      | EACH WAY                                   |
| EXT     | EXTERIOR                                   |
| FF      | FRONT FACE                                 |
| FIN     | FINISH                                     |
| GLS     | GUIDELINE SPECIFICATION                    |
| HBR     | HORIZONTAL                                 |
| INT     | INTERIOR                                   |
| LGTH    | LENGTH                                     |
| MIN     | MINIMUM                                    |
| NTS     | NOT TO SCALE                               |
| OC      | ON CENTER                                  |
| REBAR   | REINFORCING BAR                            |
| REINF   | REINFORCED, REINFORCEMENT OR REINFORCING   |
| SEC     | SECTION                                    |
| SP      | SPACING                                    |
| STIRR   | STIRRUPS                                   |
| SYMM    | SYMMETRICAL                                |
| T       | TOP  |
| THK     | THICK                                      |
| TYP     | TYPICAL                                    |
| UNOT    | UNLESS OTHERWISE NOTED                     |
| VERT    | VERTICAL                                   |
| WWF     | WELDED WIRE FABRIC                         |

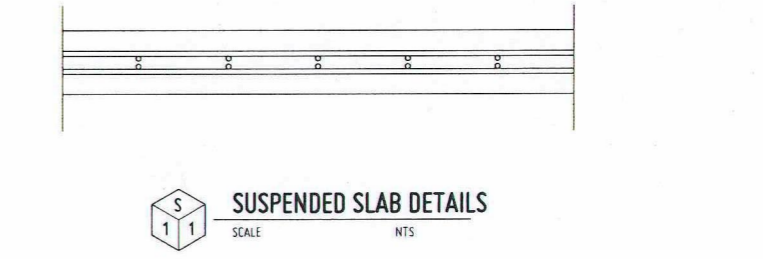


## 9. WATER PROOFING

- ALL STRUCTURAL CONCRETE IN CONTACT WITH THE GROUND SHALL BE PROTECTED EITHER BY TWO COATS OF BITUMINOUS DAMPROOFING OR BY USE OF WATER PROOF MEMBRANE AS BEEN SHOWN ON THE DETAILED DRAWING.
 

POLYETHYLENE SHEET OF 200 MICRON TO BE USED AS VAPOUR BARRIER UNDER MUD SLAB.

WATER PROOFING TO BE APPLIED ON TOP OF MUD CONCRETE AND ABOVE.



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CIVIL/STRUCTURAL ENGINEER  
PRC NO. 004940 PIR NO. 1167609  
DATE 1-28-2026  
TIN 152-324-743 PLACE EL SALVADOR CITY

PROJECT  
PROPOSED CONSTRUCTION OF SMART ACADEMIC BUILDING  
PHASE 1, JASAAN CAMPUS  
USTP JASAAN CAMPUS, MISAMIS ORIENTAL  
OWNER  
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:  
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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:  
ATTY. ERWIN B. BULTE  
VP FOR ADMINISTRATION & LEGAL AFFAIRS

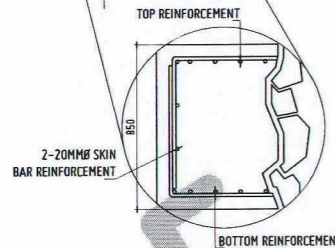
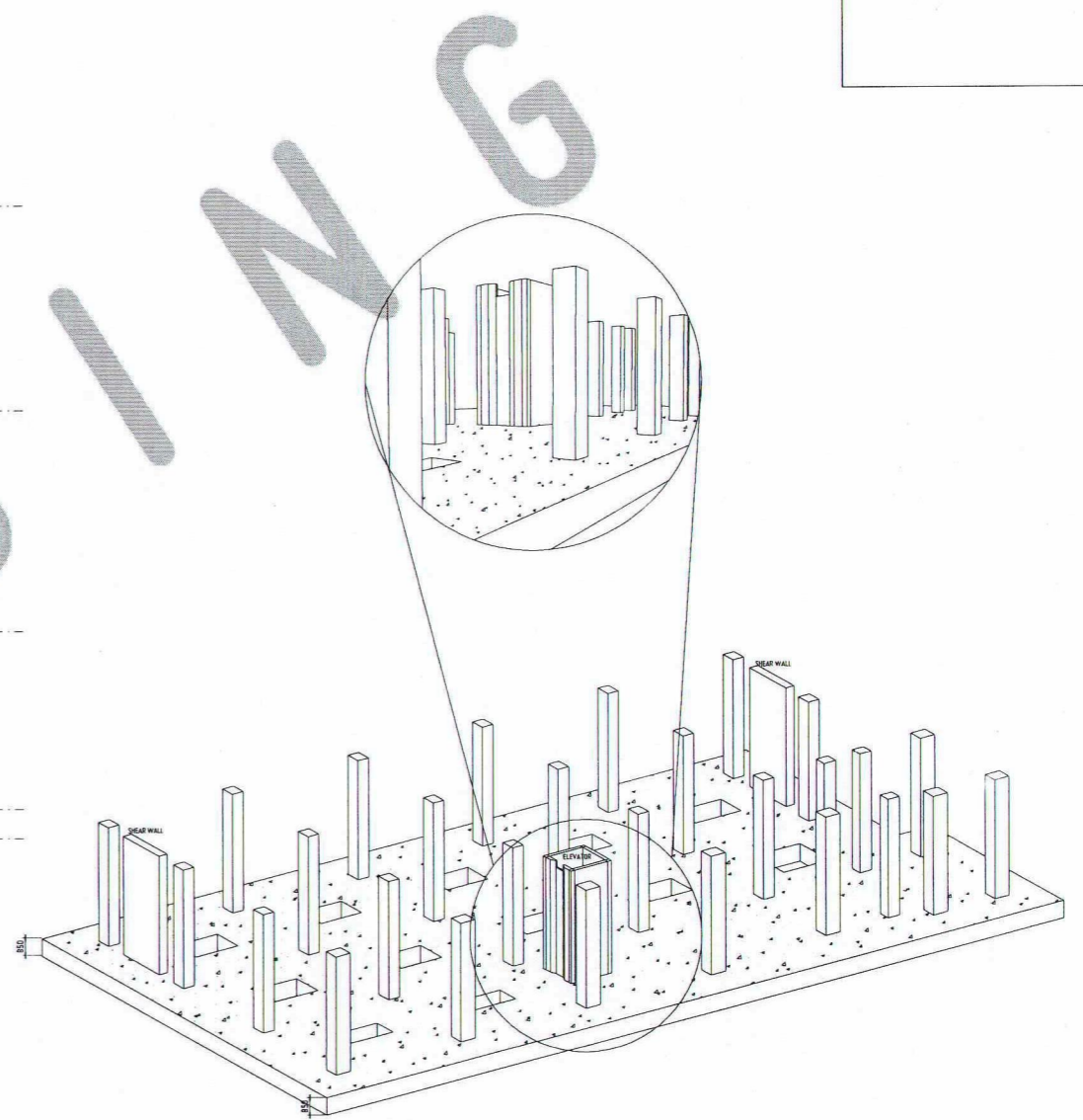
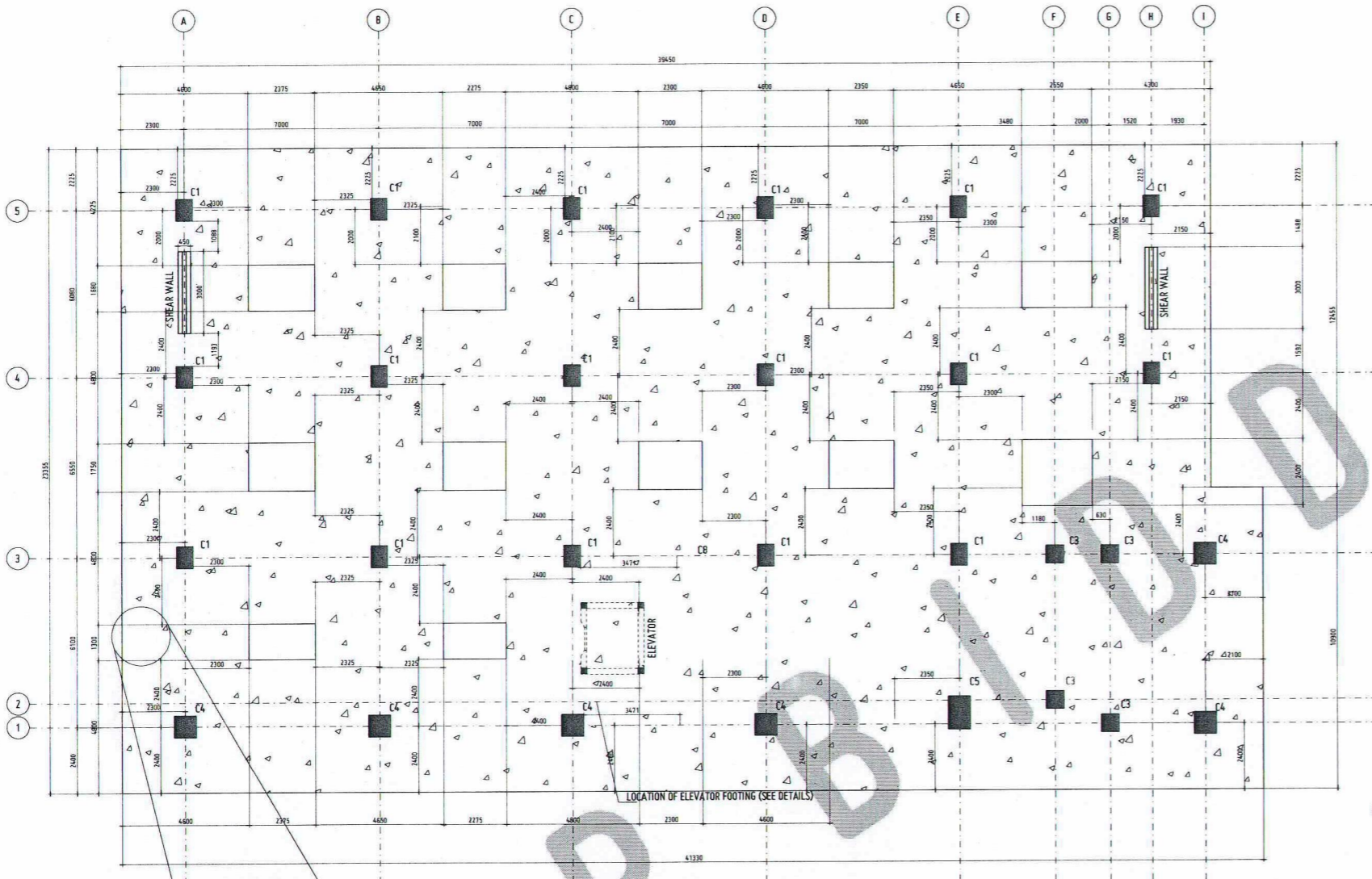
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DR. AMBROSIO B. CULTURA II  
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:  
GENERAL NOTES  
SUSPENDED SLAB DETAILS

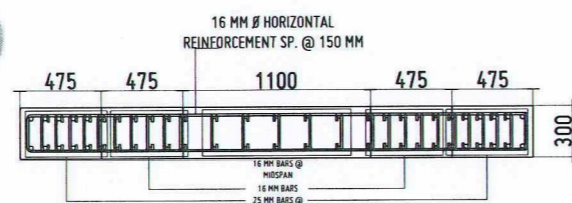
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10.01.2025  
PNT:

S1





**S 2 1** MAT FOOTING LAYOUT  
SCALE 1:100 MTS



**S 2 6** SHEAR WALL DETAILS  
SCALE 1:100 MTS

**S 2 1** MAT FOOTING LAYOUT (ISOMETRIC)  
SCALE NTS



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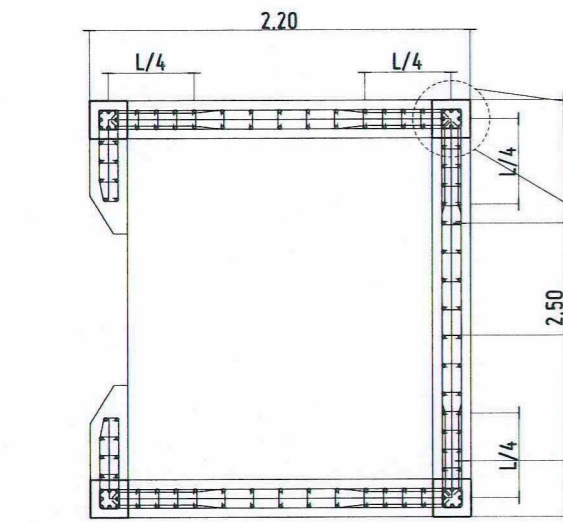
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*Atty. Erwin B. Bucio*  
**ATTY. ERWIN B. BUCIO**  
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**DR. AMBRISO B. CULTURA II**  
PRESIDENT, USTP SYSTEM

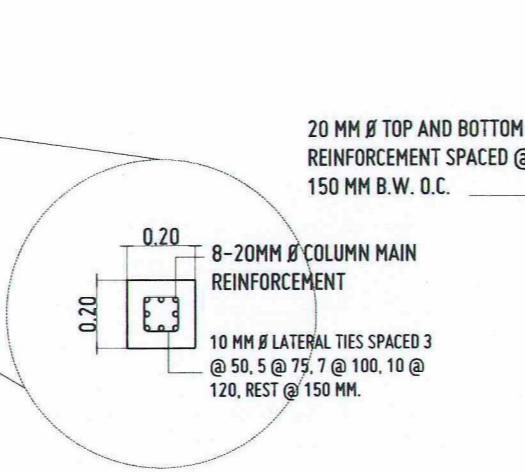
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MAT FOOTING LAYOUT  
MAT FOOTING ISOMETRIC LAYOUT  
SHEAR WALL DETAILS

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DATE DRAWN:  
10.01.2025  
PNT:

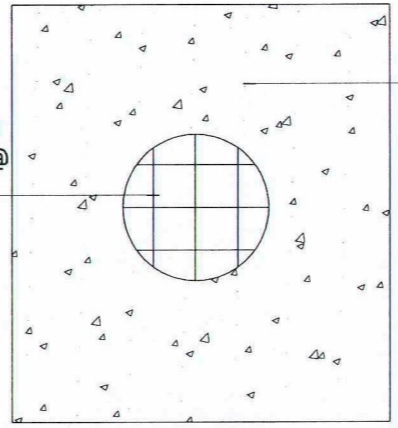
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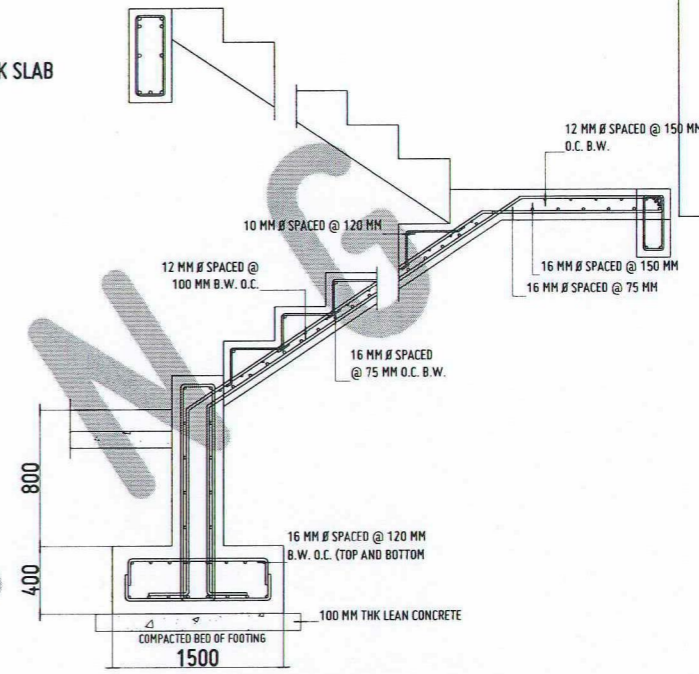
ELEVATOR REINFORCEMENT DETAILS



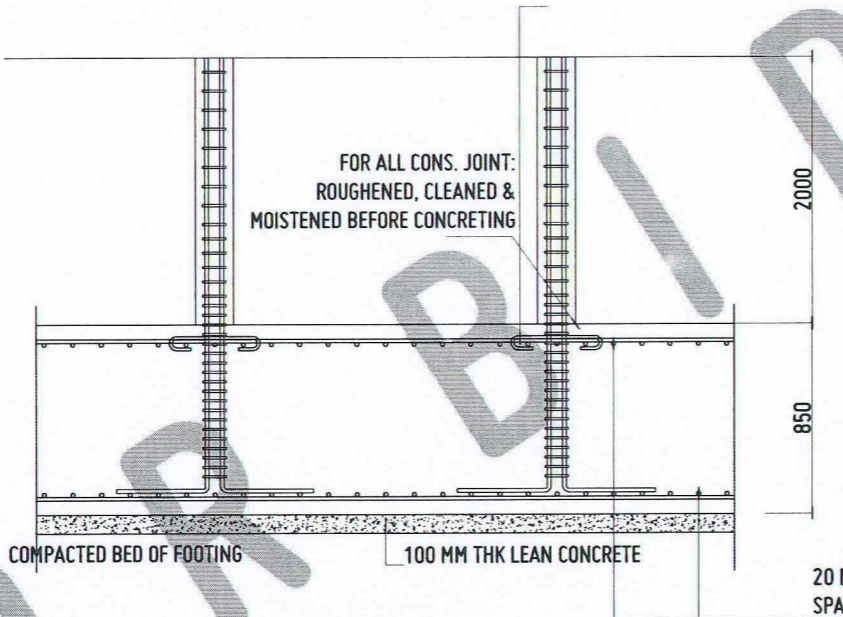
COLUMN BLOWUP DETAIL



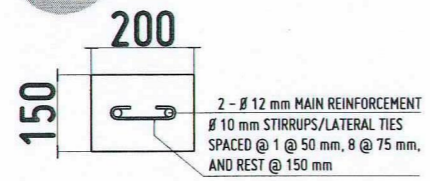
TOP SLAB REINFORCEMENT



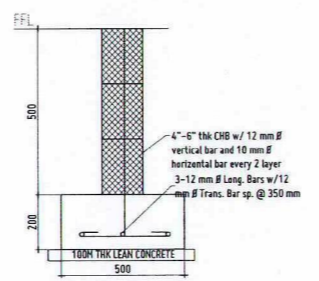
FIRE EXIT STAIRCASE DETAILS  
SCALE 100 MTS



ELEVATOR DETAILS  
SCALE 1:100 MTS



LINTEL AND STIFFENER BEAM DETAILS  
SCALE 1:100 MTS



WALL FOOTING DETAIL  
TYPICAL DETAILS  
SCALE 1:100 MTS

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
| C1   | C2   | C6   | C7   |
| 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM |
|  |  |  |  |
| C3   | C4   | C8   |  |
| 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM |  |
|  |  |  |  |
| C5   |  |  |  |
| 10 mm # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM |  |  |  |

SCHEDULE OF COLUMNS  
SCALE 1:20 MTS



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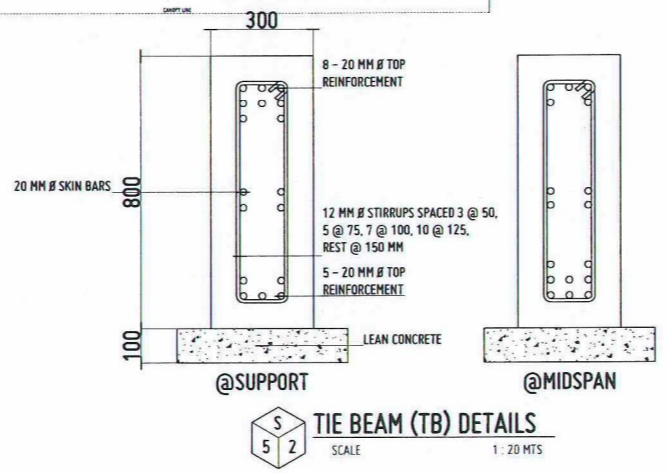
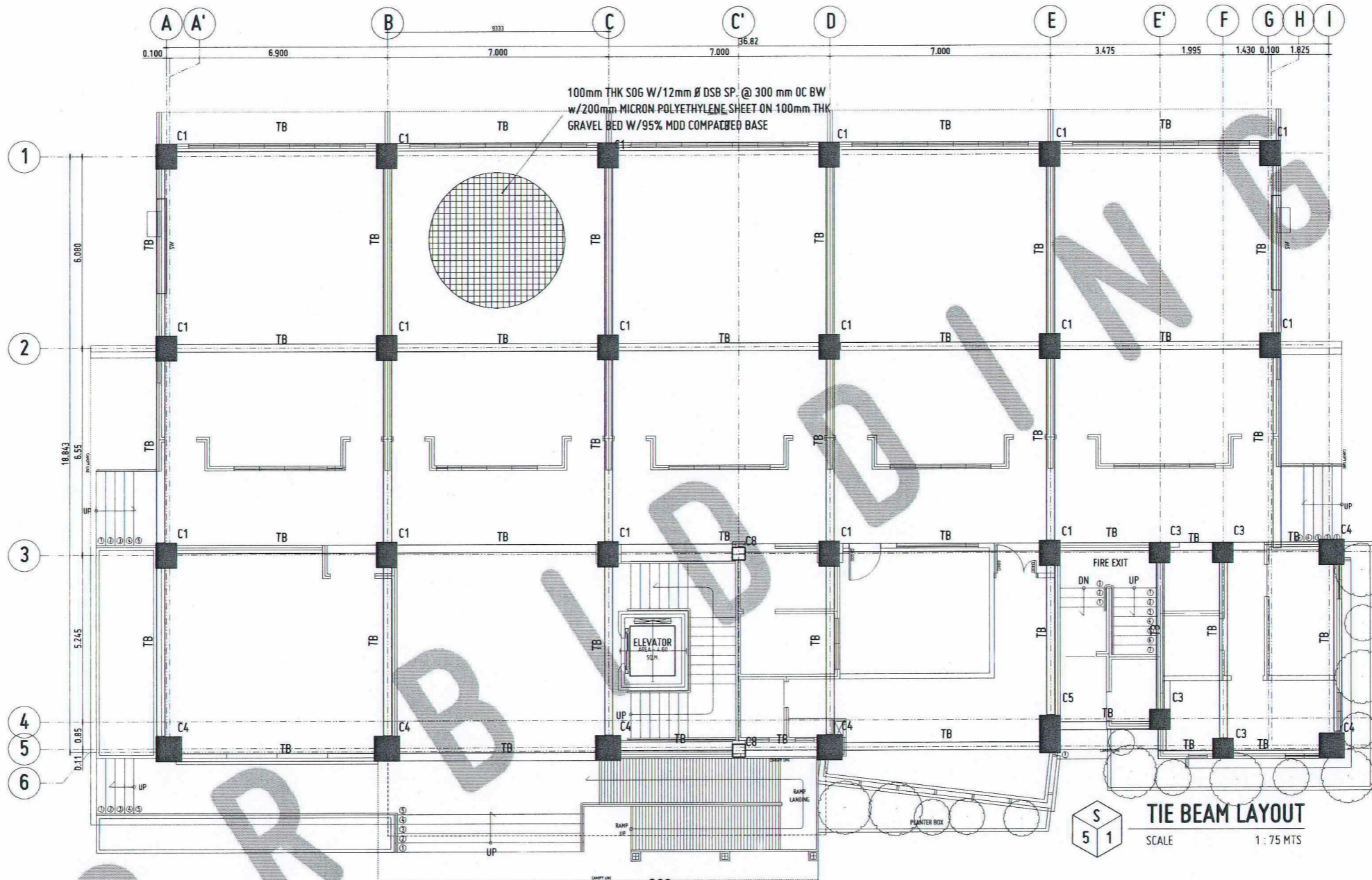
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:  
DR. AMBROSIO B. CULTURA II  
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:  
ELEVATOR REINFORCEMENT DETAILS  
LINTEL AND STIFFENER BEAM DETAILS  
WALL FOOTING DETAILS  
SCHEDULE OF COLUMNS  
FIRE EXIT STAIRCASE DETAILS

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10.01.2025  
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S4



FOR BIDDING



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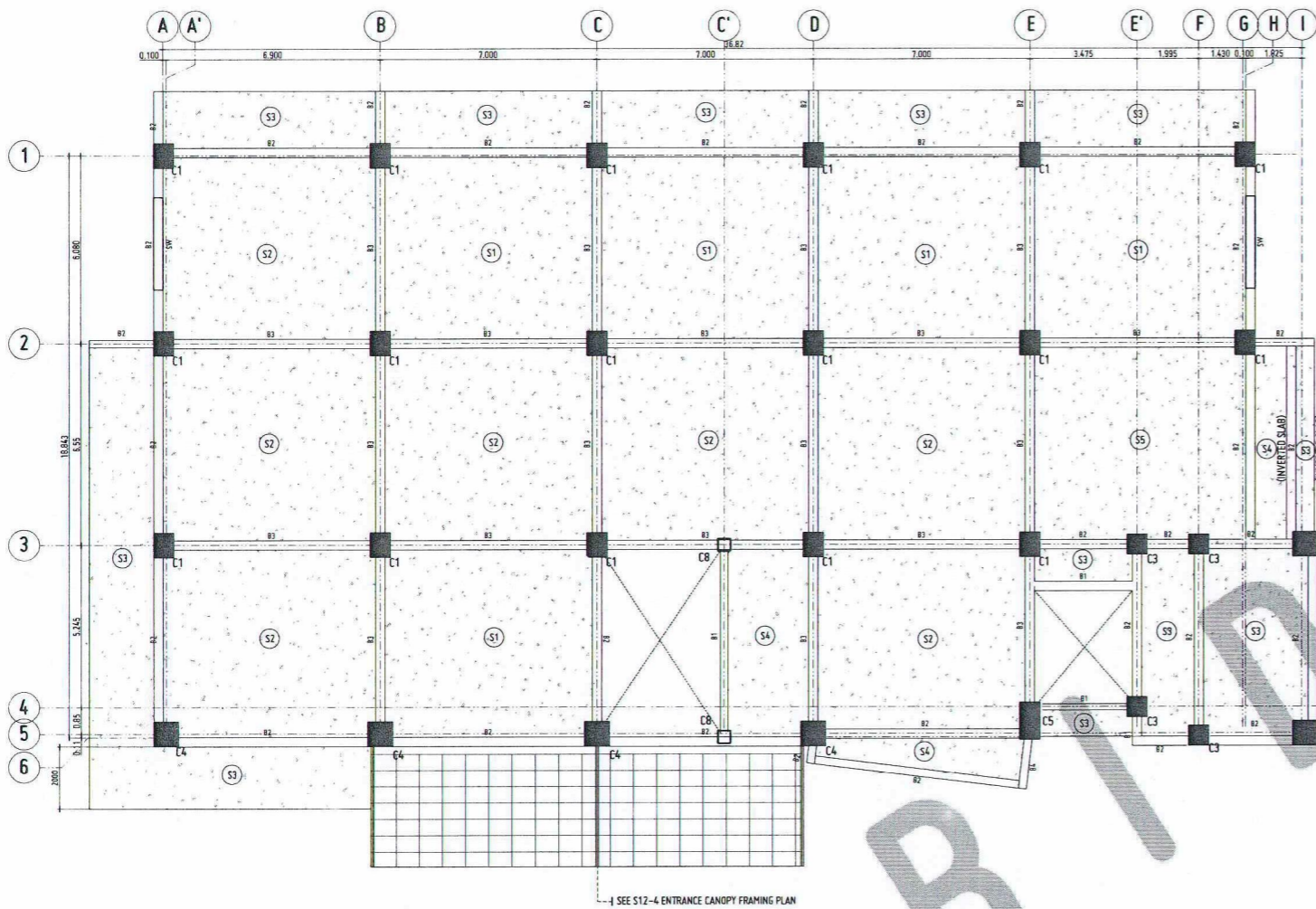
RECOMMENDING APPROVAL:  
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APPROVED BY:  
**DR. AMBROSIO B. CULTURA II**  
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:  
TIE BEAM LAYOUT  
TIE BEAM DETAILS

DRAWN BY:  
DATE DRAWN:  
10.01.2025  
FNT:

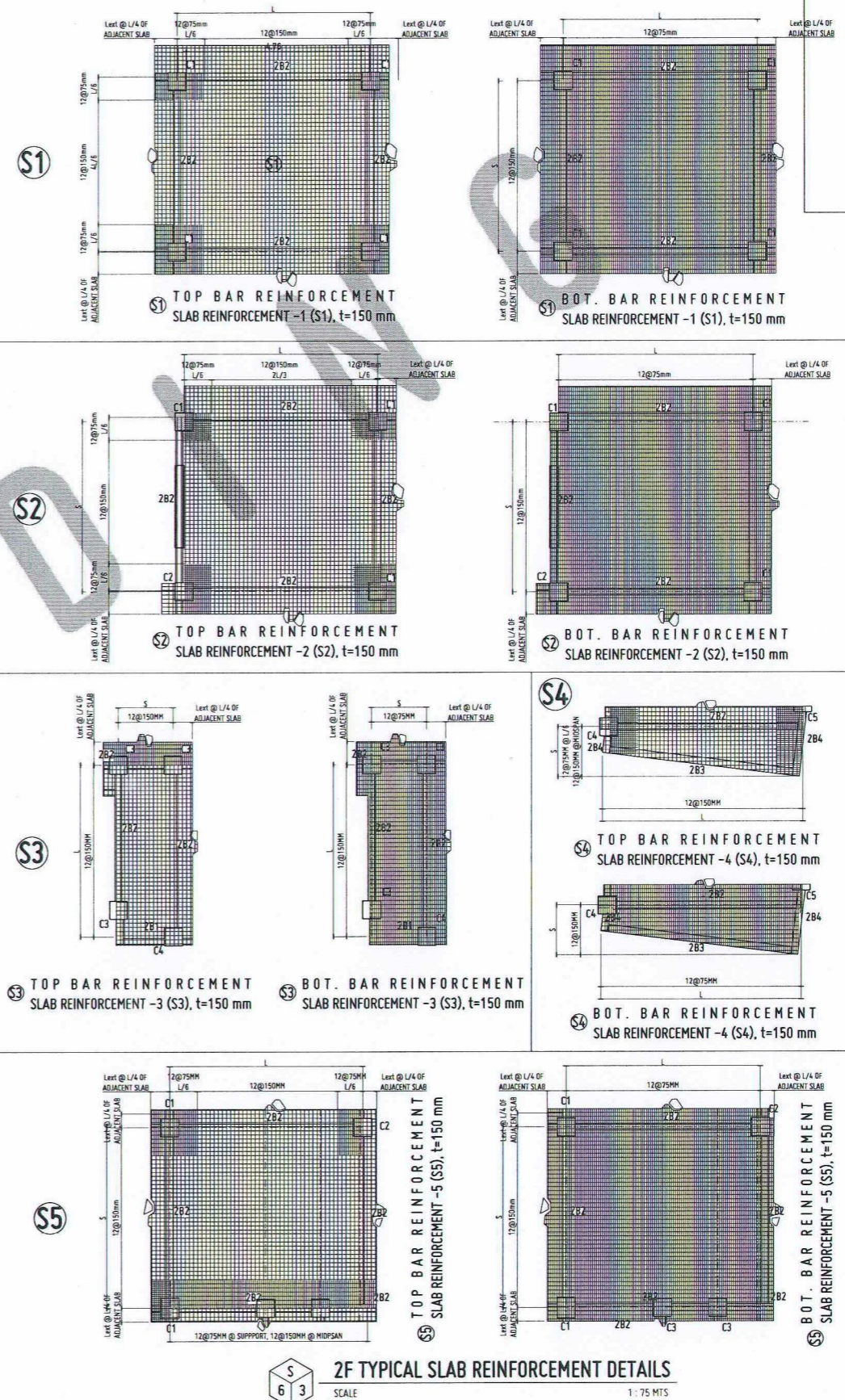
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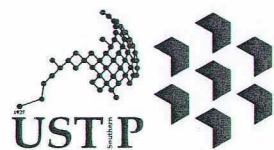
**2ND FLOOR BEAM LAYOUT**  
SCALE: 1:100 MTS

| B1   | B2   | B3   | B4   |
|--|--|--|--|
| 10 MM # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 MM # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 MM # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM | 10 MM # STIRRUPS SPACED 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM |
|  |  |  |  |
| MIDSPAN  | SUPPORT  | MIDSPAN  | SUPPORT  |
|  | MIDSPAN  | SUPPORT  | SUPPORT/CANTILEVER   |

**2ND FLOOR BEAM SCHEDULE**  
SCALE: 1:20 MTS



**2F TYPICAL SLAB REINFORCEMENT DETAILS**  
SCALE: 1:75 MTS



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PRC NO. 0044840 PFR NO. 1167669  
DATE 1-26-2025  
PLACE EL SALVADOR CITY

PROJECT  
LOCATION  
OWNER

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PHASE 1, JASAAN CAMPUS  
USTP JASAAN CAMPUS, MISAMIS ORIENTAL  
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:

DR. AMBROSIO B. CULTURA II

PRESIDENT, USTP SYSTEM

SHEET CONTENTS:

2F BEAM LAYOUT  
2F BEAM SCHEDULE  
2F TYPICAL SLAB REINFORCEMENT DETAILS

DRAWN BY:

DATE DRAWN:

10.01.2025

INT:

S6