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E X T E R I O R P E R S P E C T I V E

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	PROJECT LOCATION:							DATE: MARCH 2023	PAGE NO. 01/75
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								





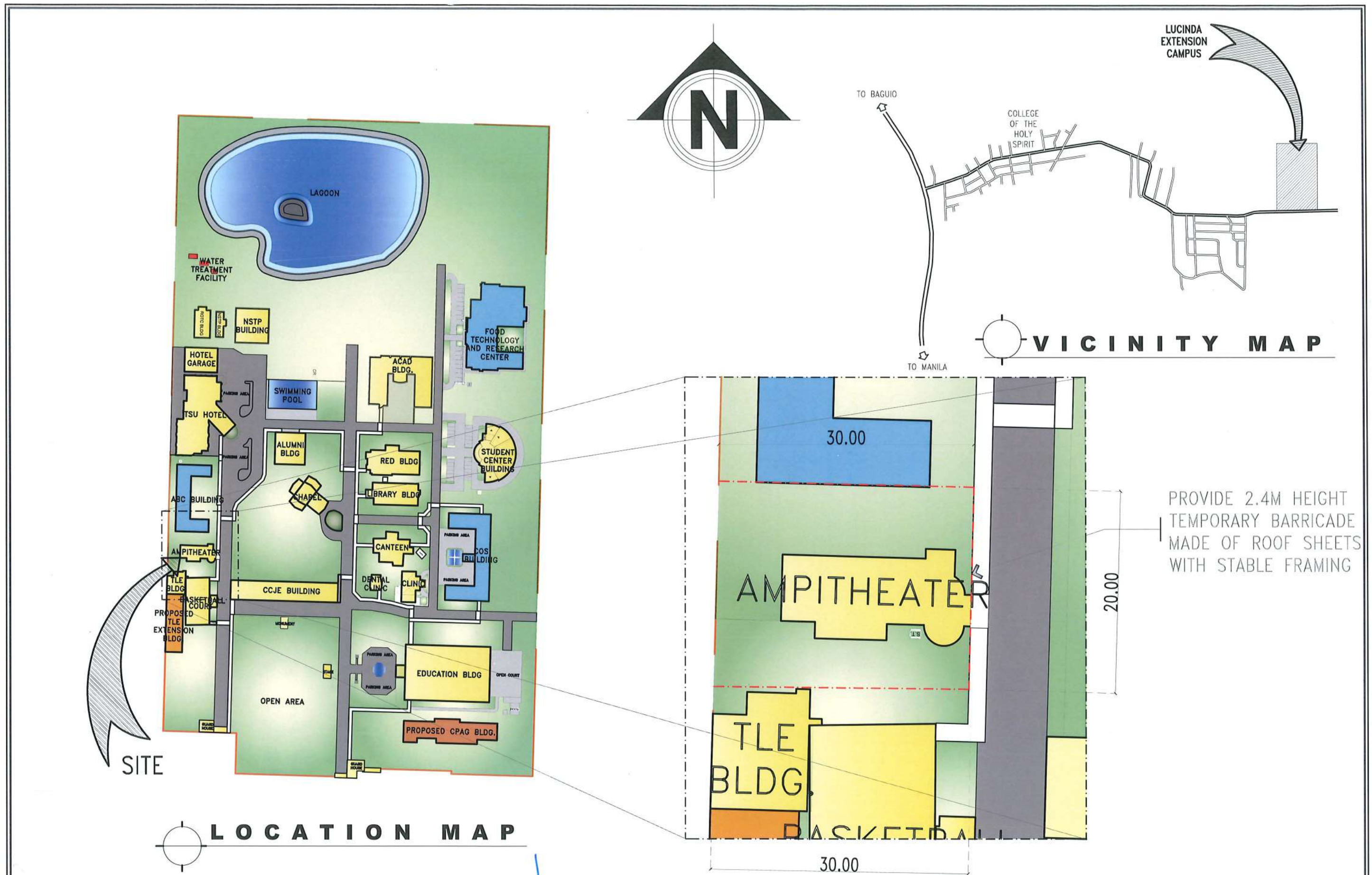
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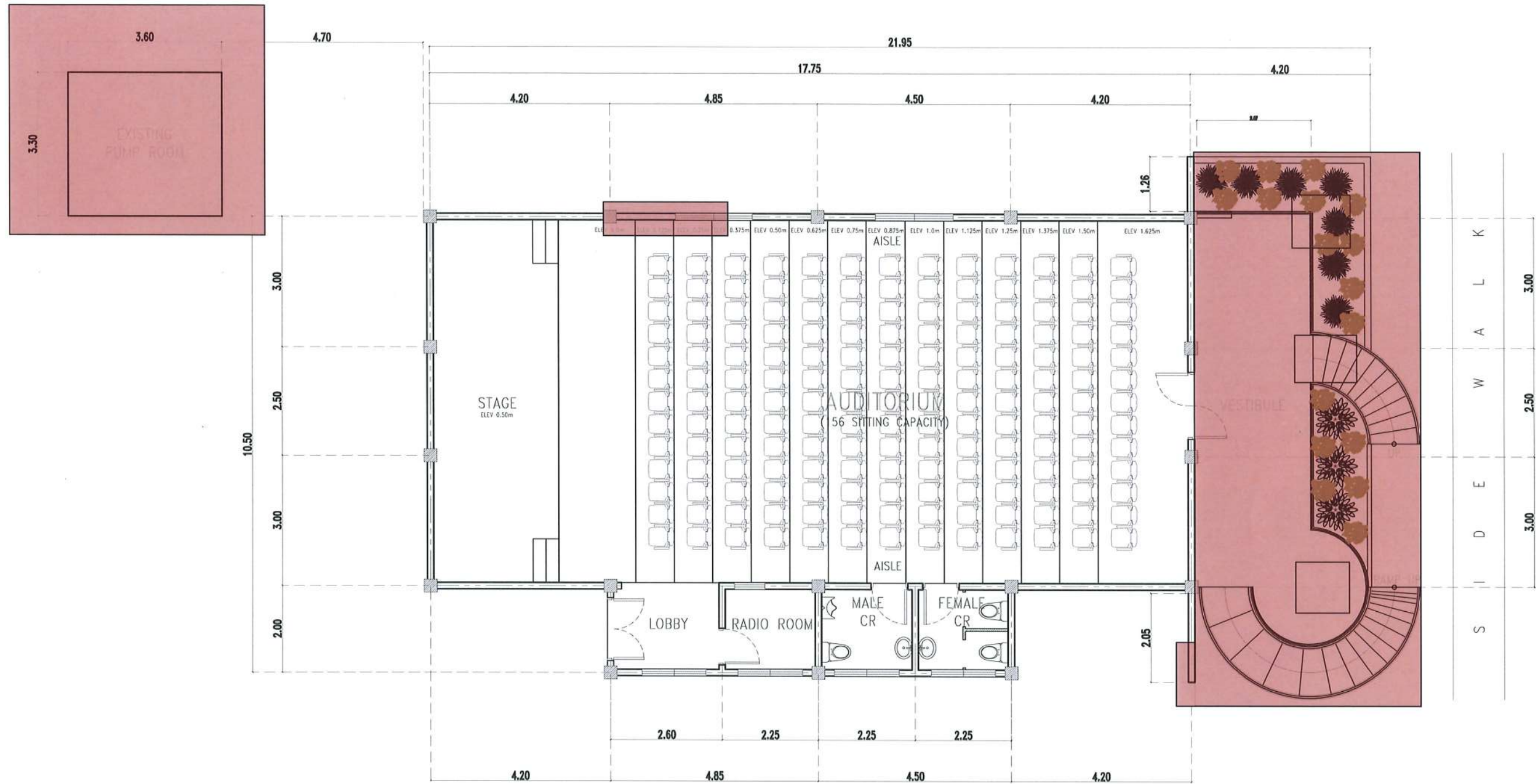
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LOCATION MAP

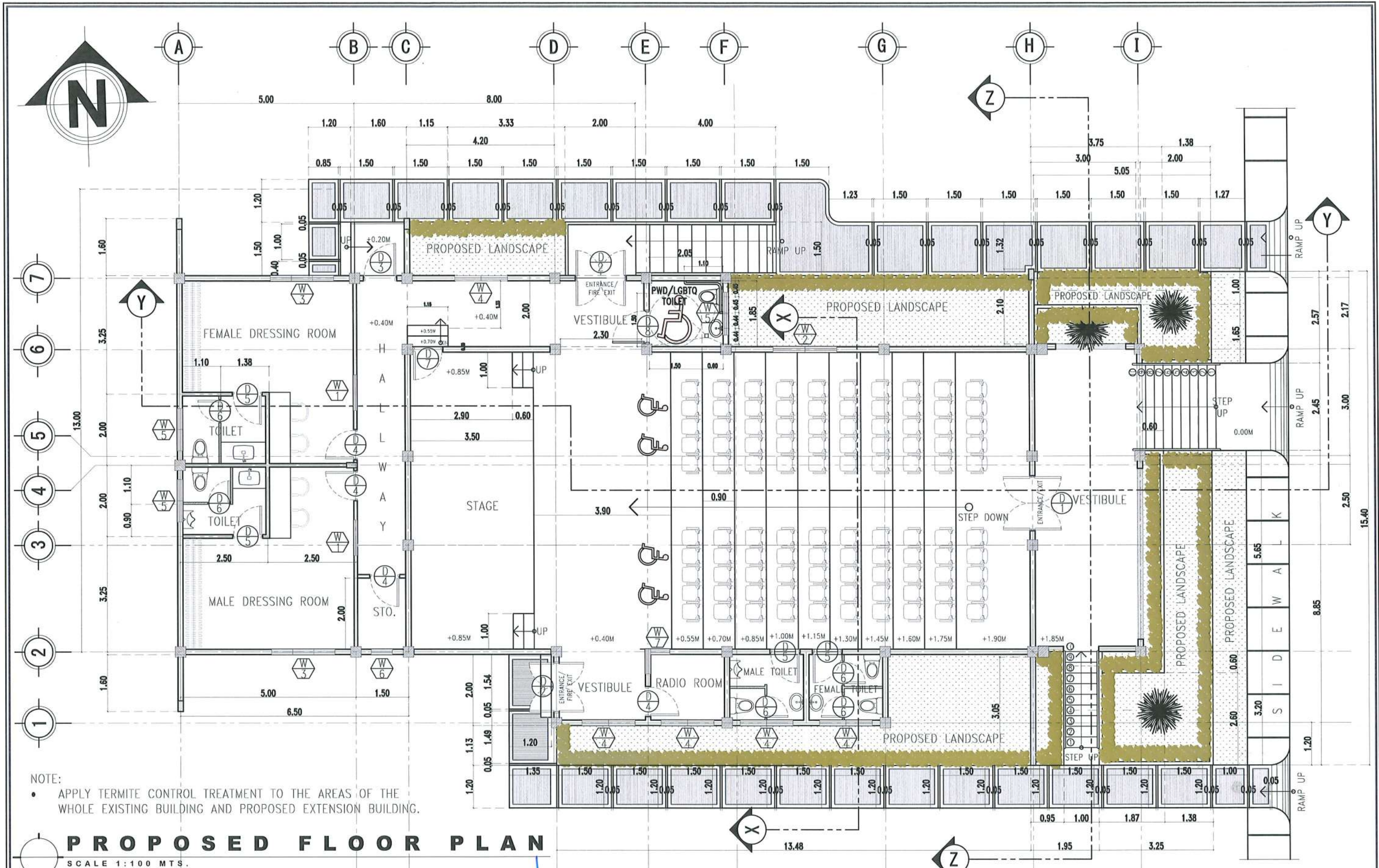
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NOTE: DEMOLISH ALL PORTION WITH RED COLOR



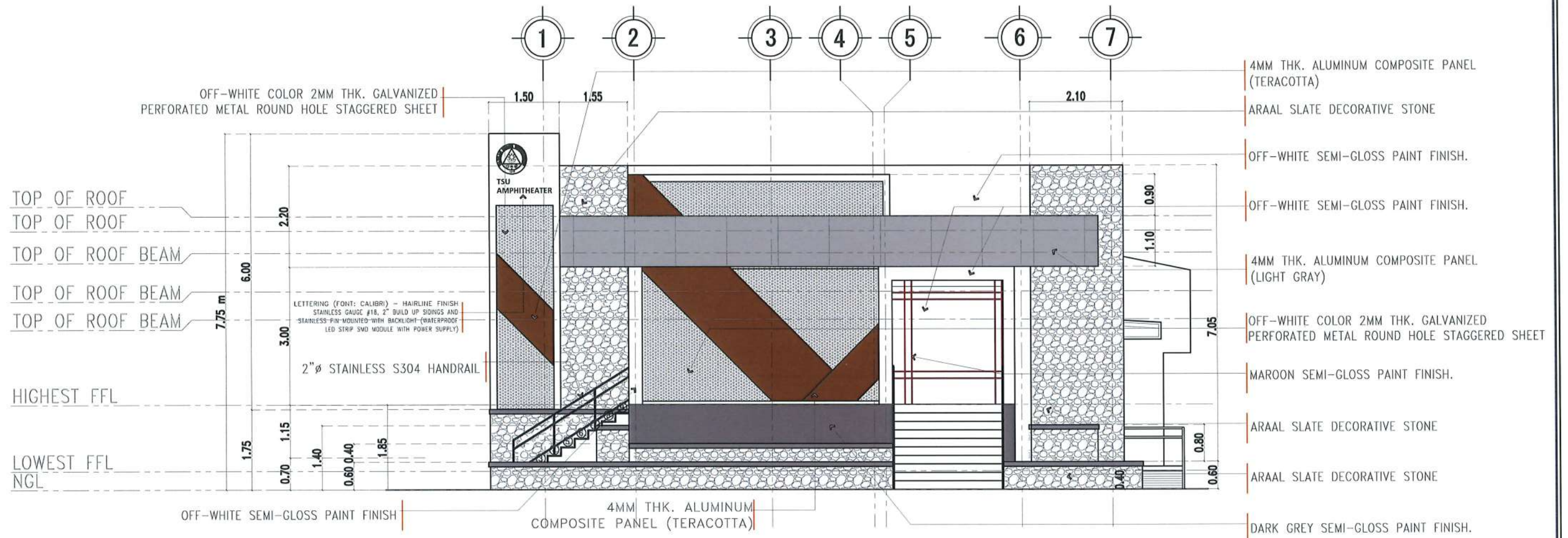
EXISTING FLOOR PLAN
SCALE 1:100 MTS.

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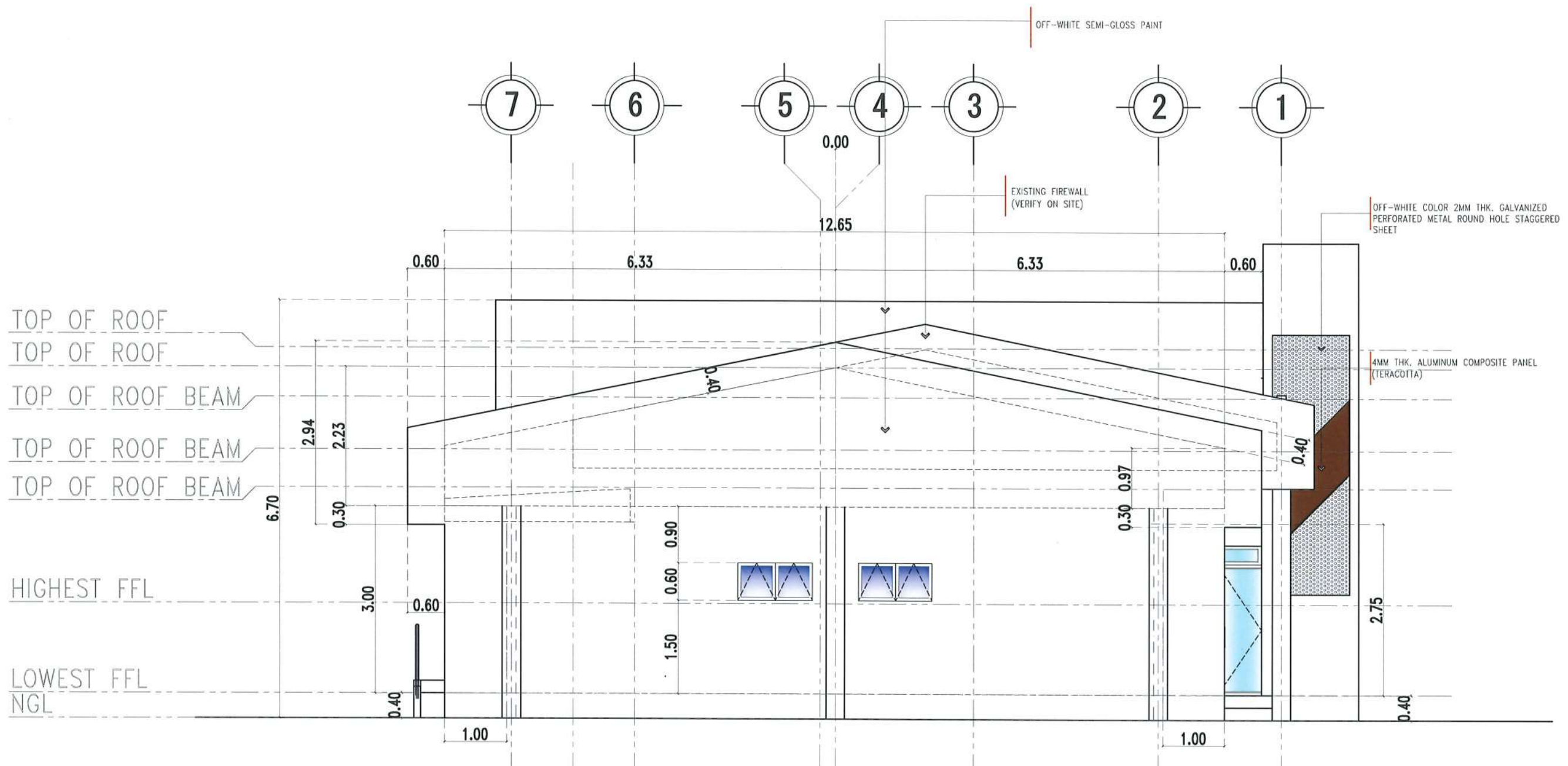


FRONT ELEVATION
SCALE 1:90 MTS.



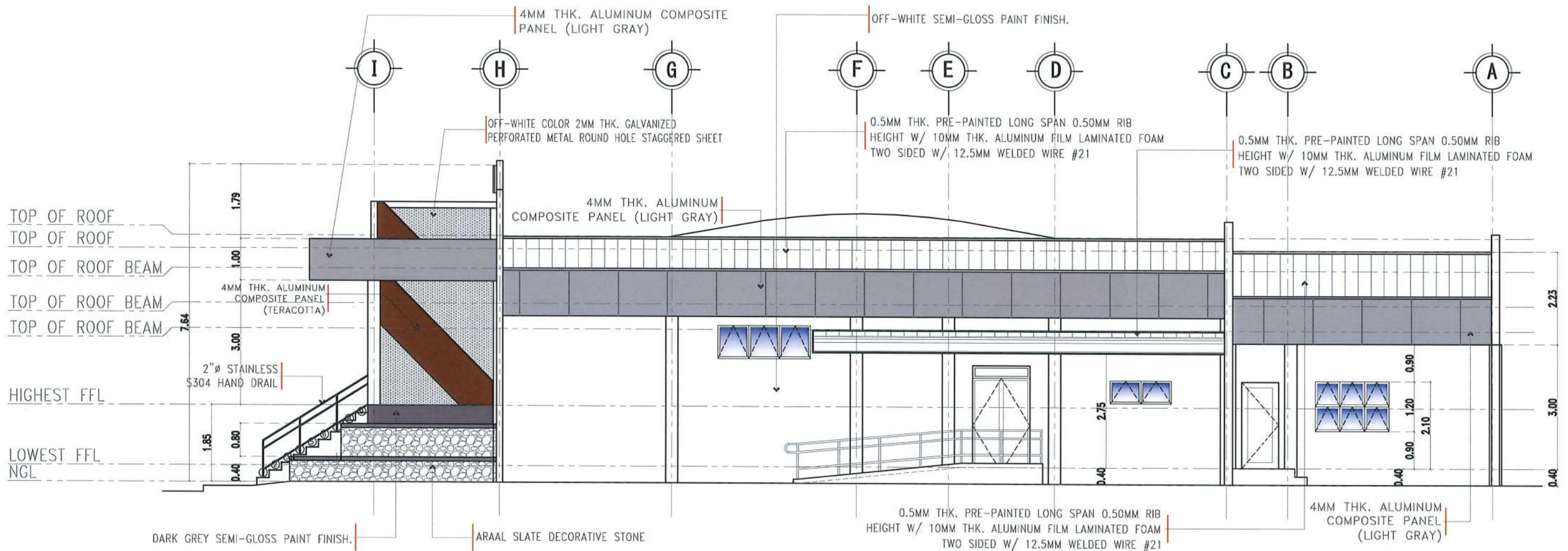
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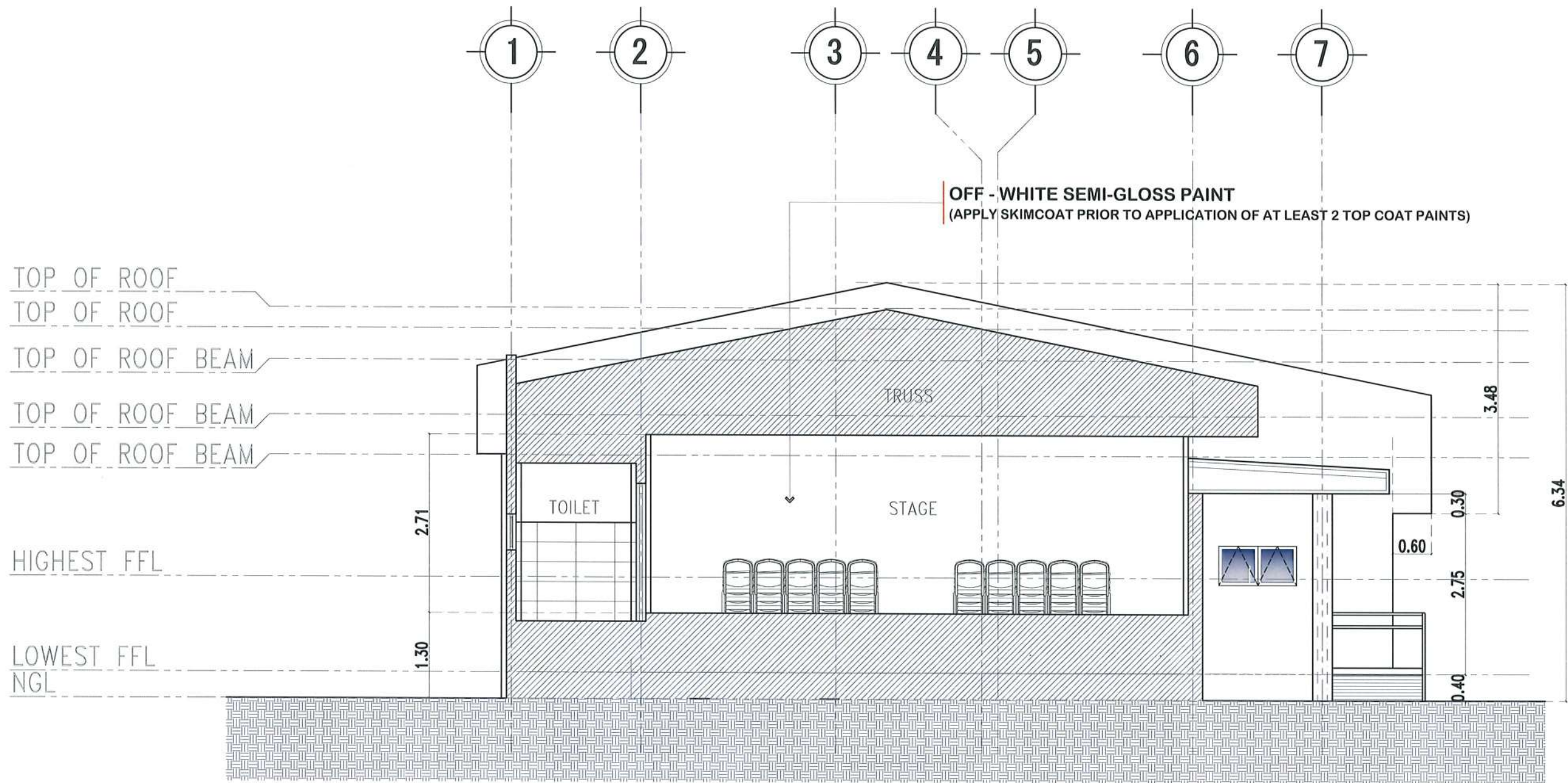
REAR ELEVATION
 SCALE 1:70 MTS.

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RIGHT-SIDE ELEVATION
SCALE 1:100 MTS.

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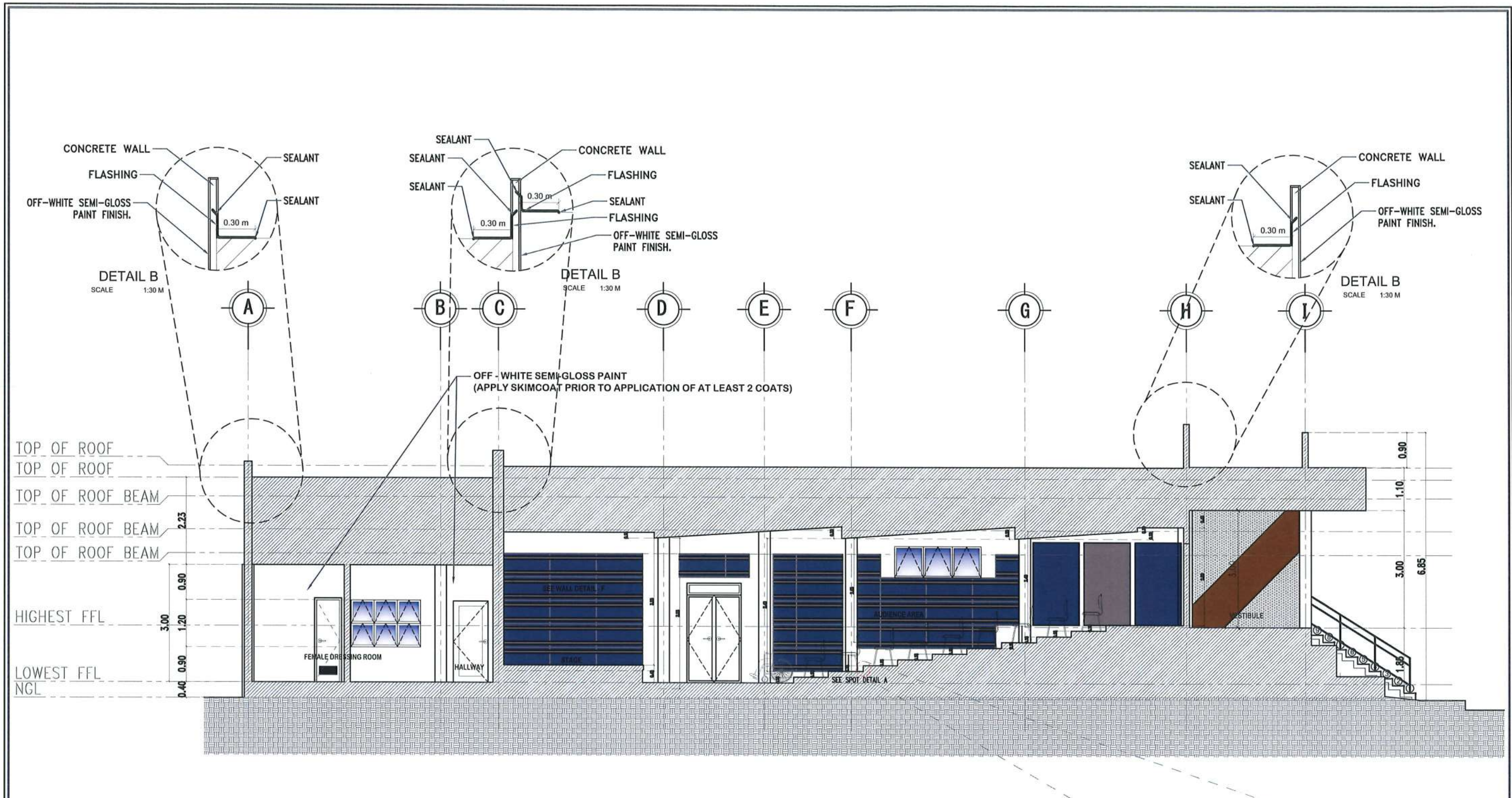


CROSS-SECTION THRU X-X
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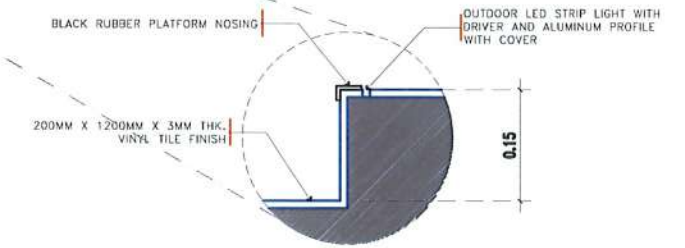


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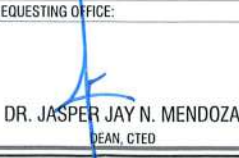

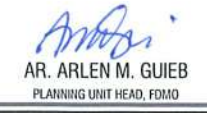


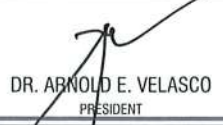
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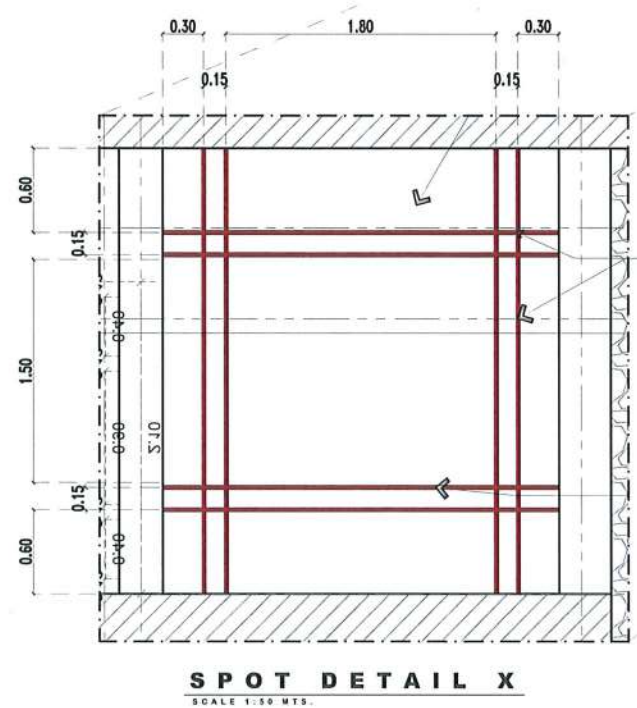
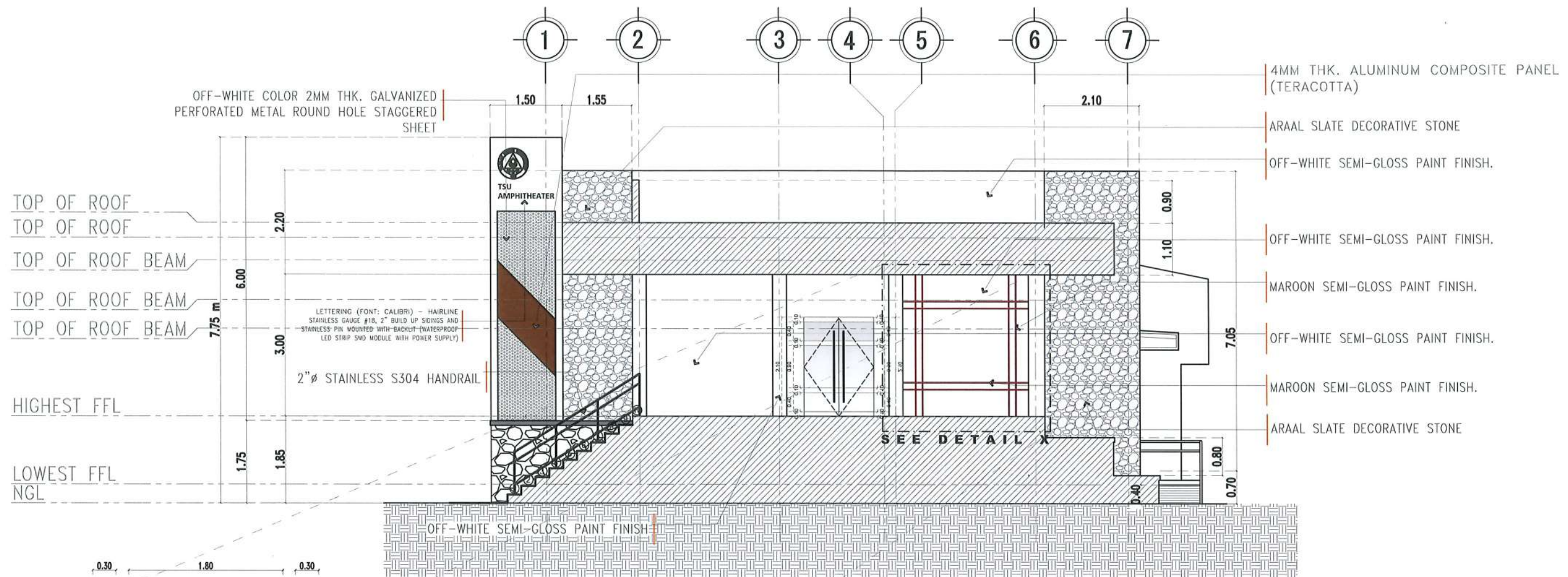


LONGITUDINAL-SECTION THRU Y-Y
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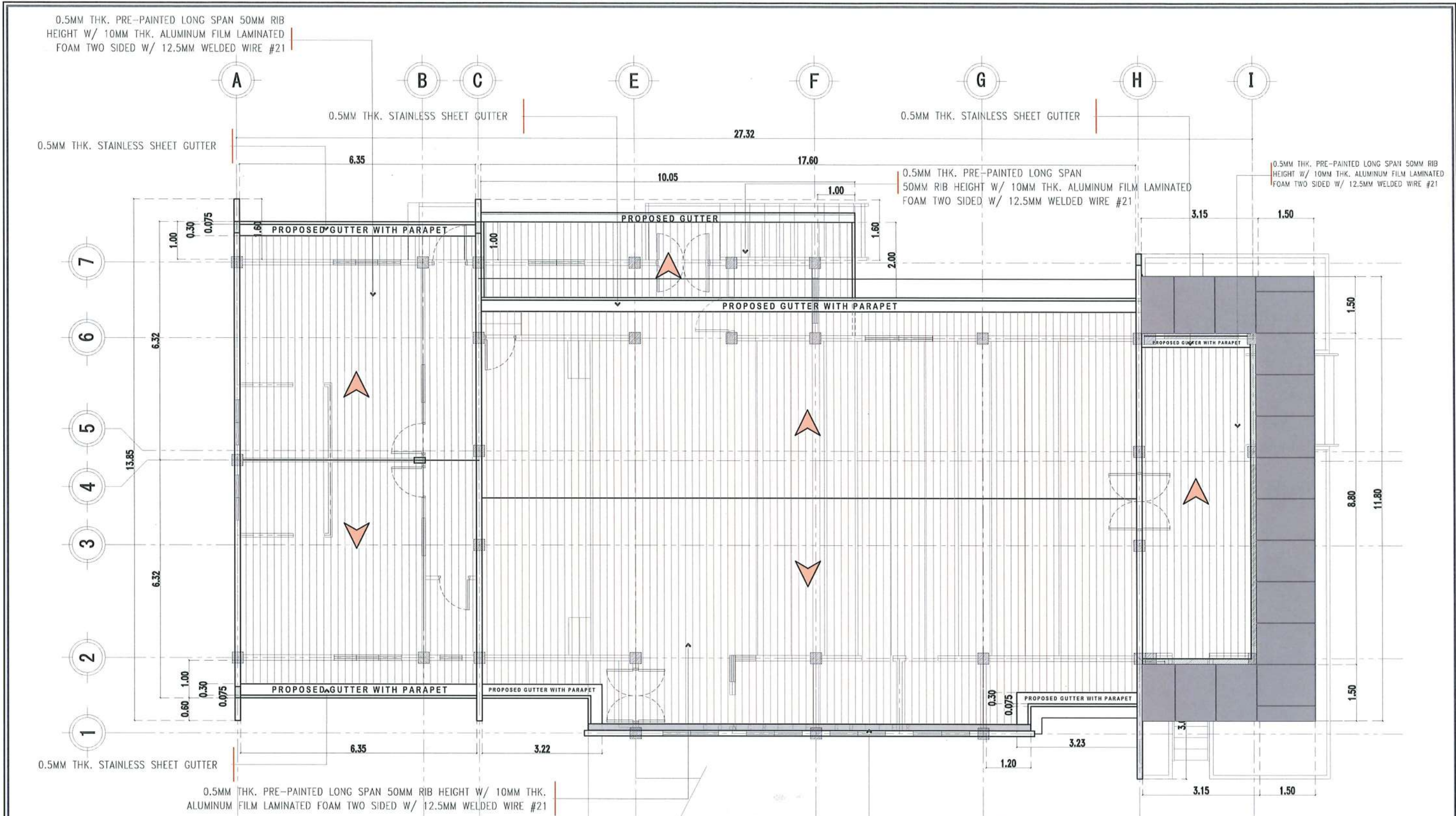
SPOT DETAIL A
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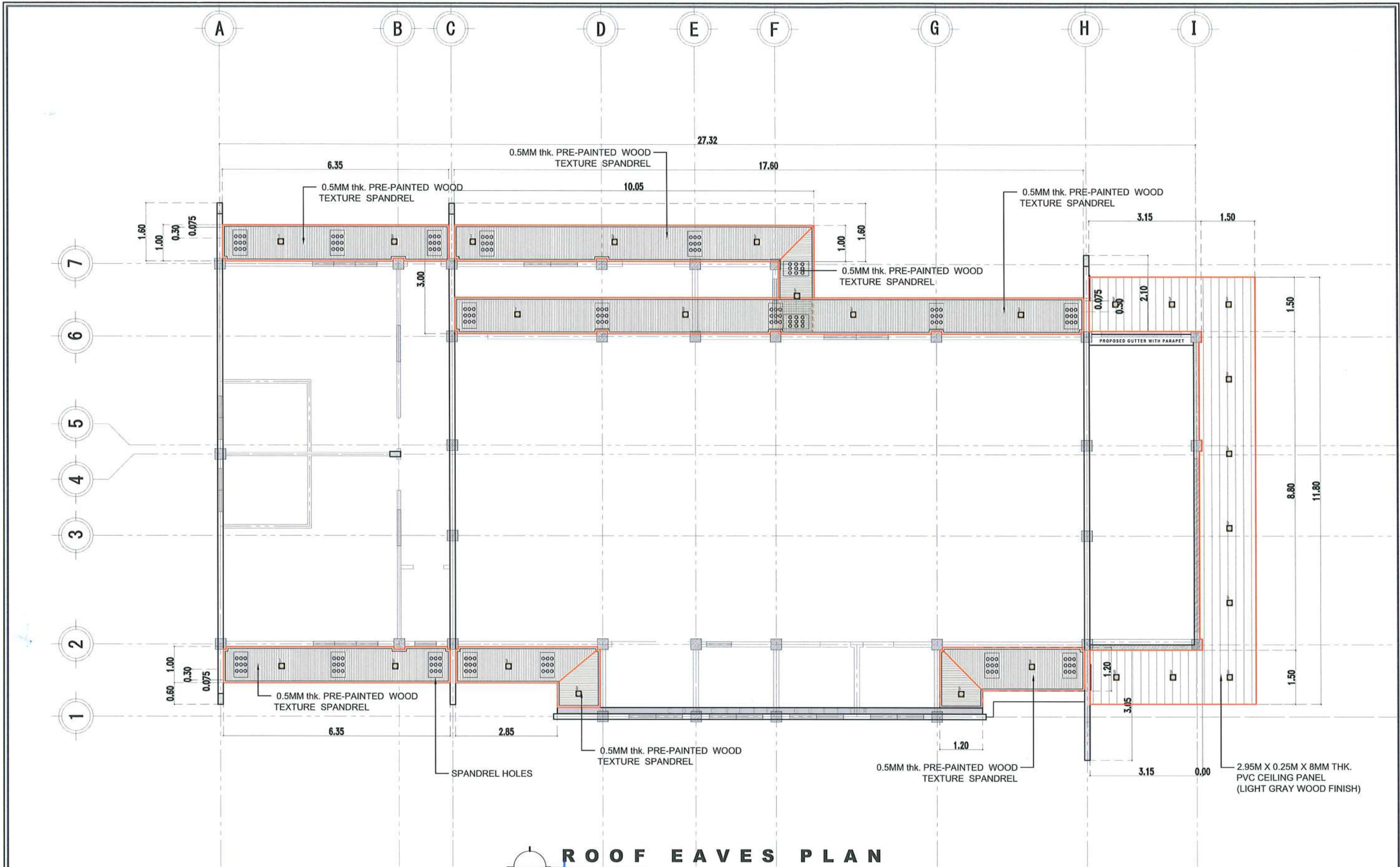
CROSS-SECTION THRU Z-Z
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ROOF PLAN
SCALE 1:100 MTS.

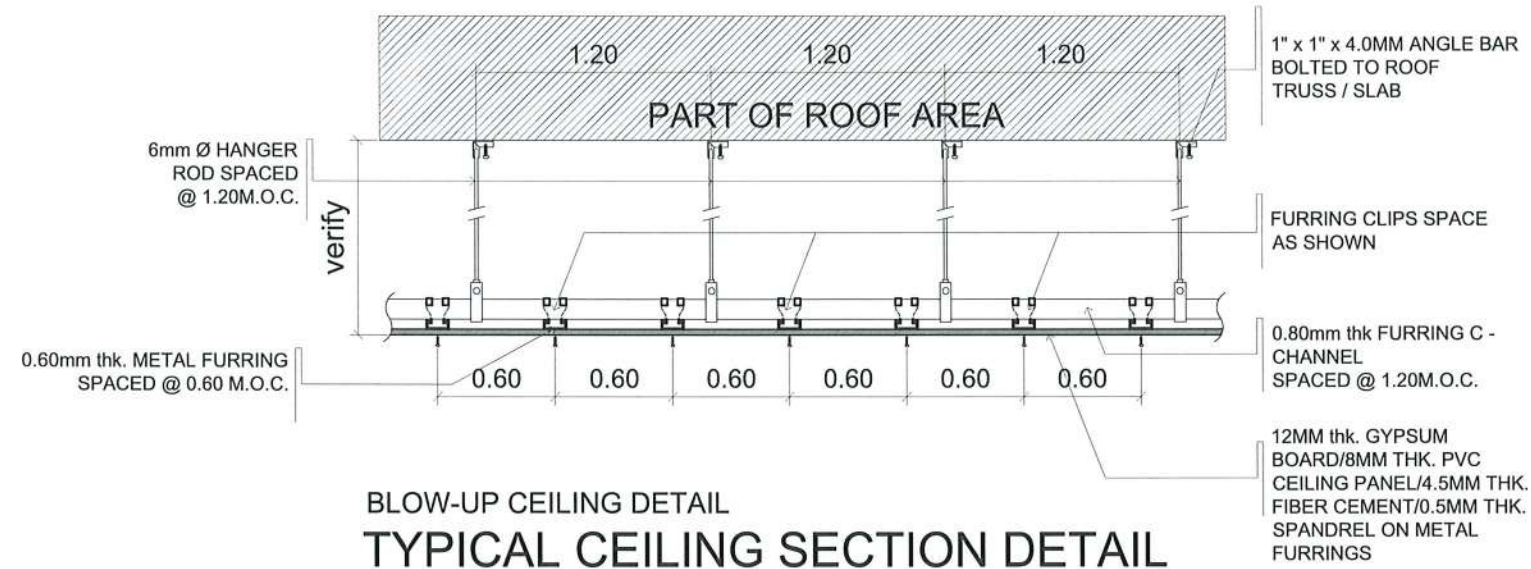
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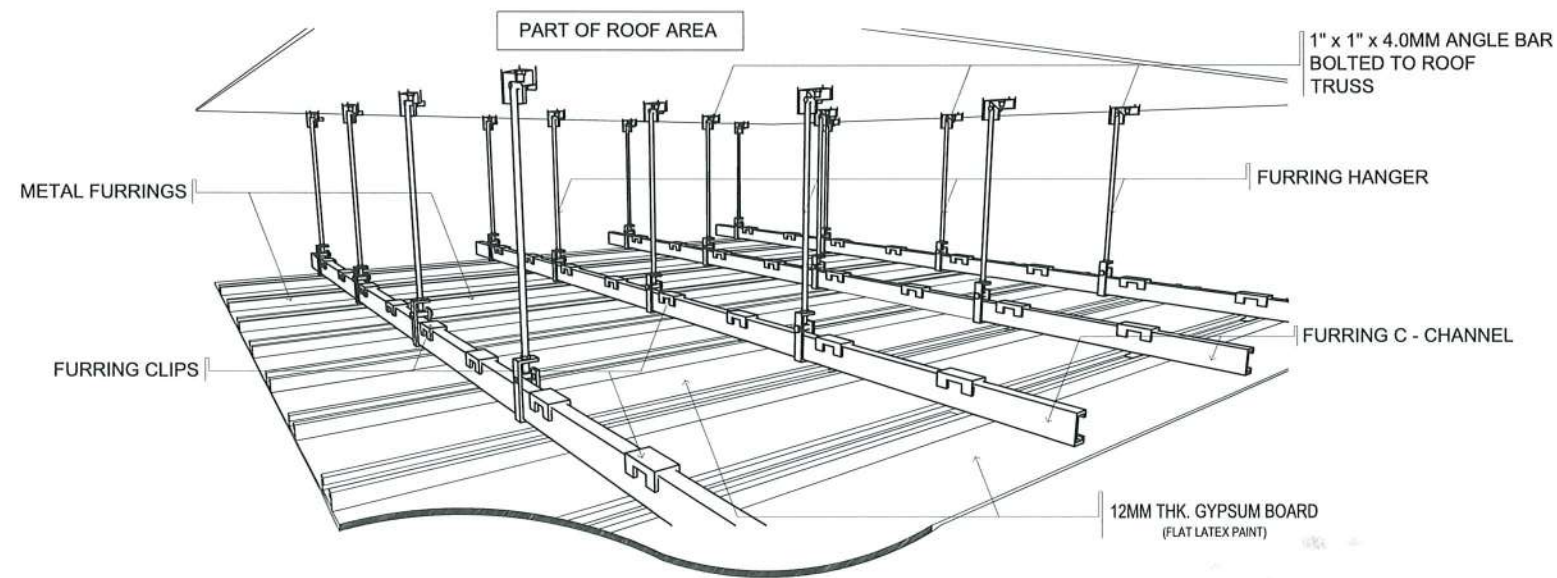
ROOF EAVES PLAN
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BLOW-UP CEILING DETAIL METAL FURRING CONNECTION DETAILS



BLOW-UP CEILING DETAIL TYPICAL CEILING SECTION DETAIL

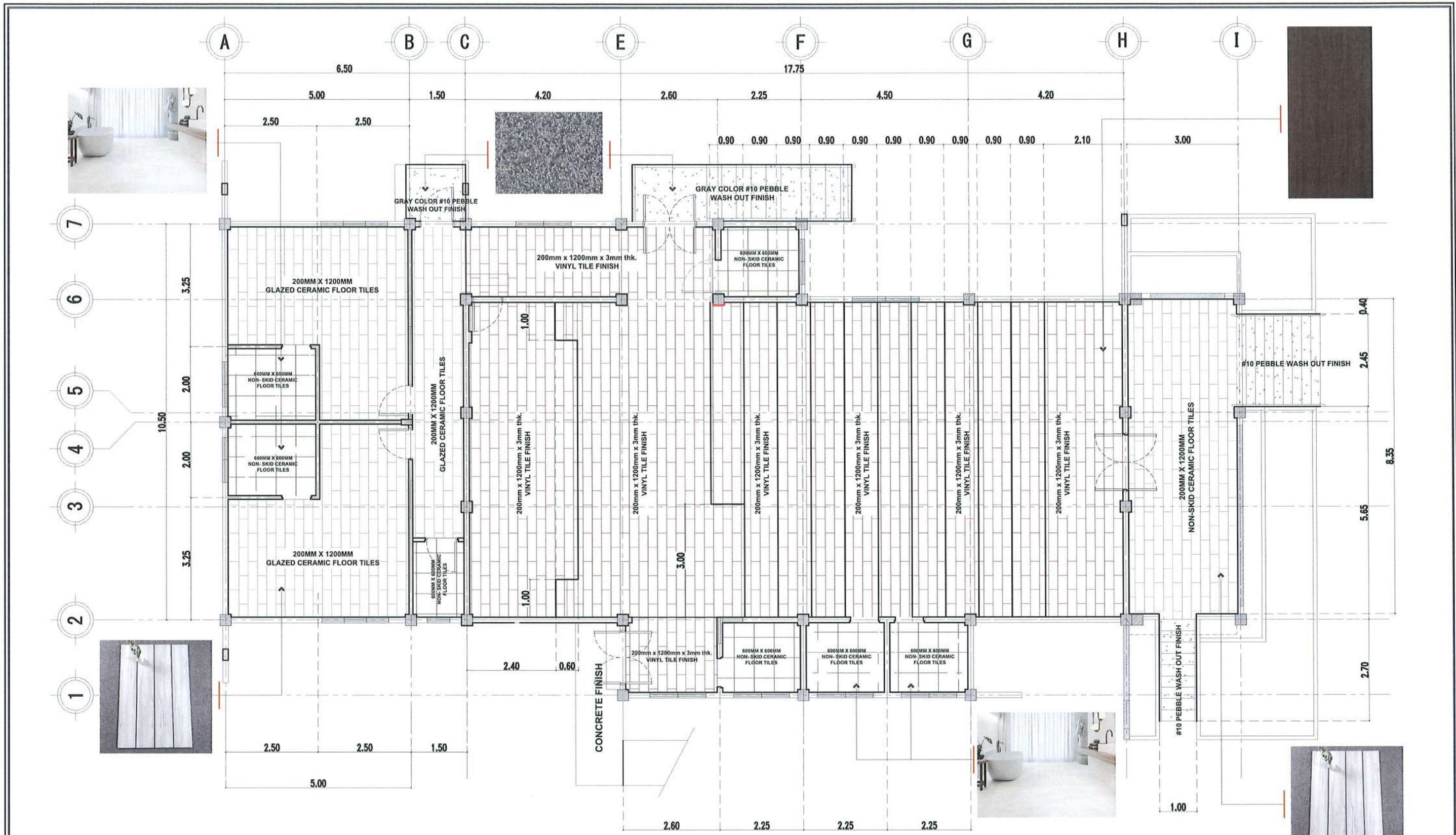


BLOW-UP CEILING DETAIL ISOMETRIC DETAIL




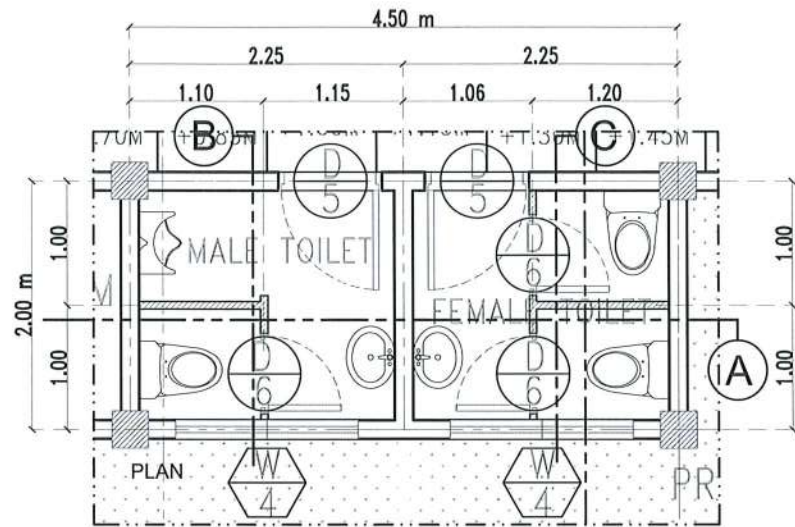
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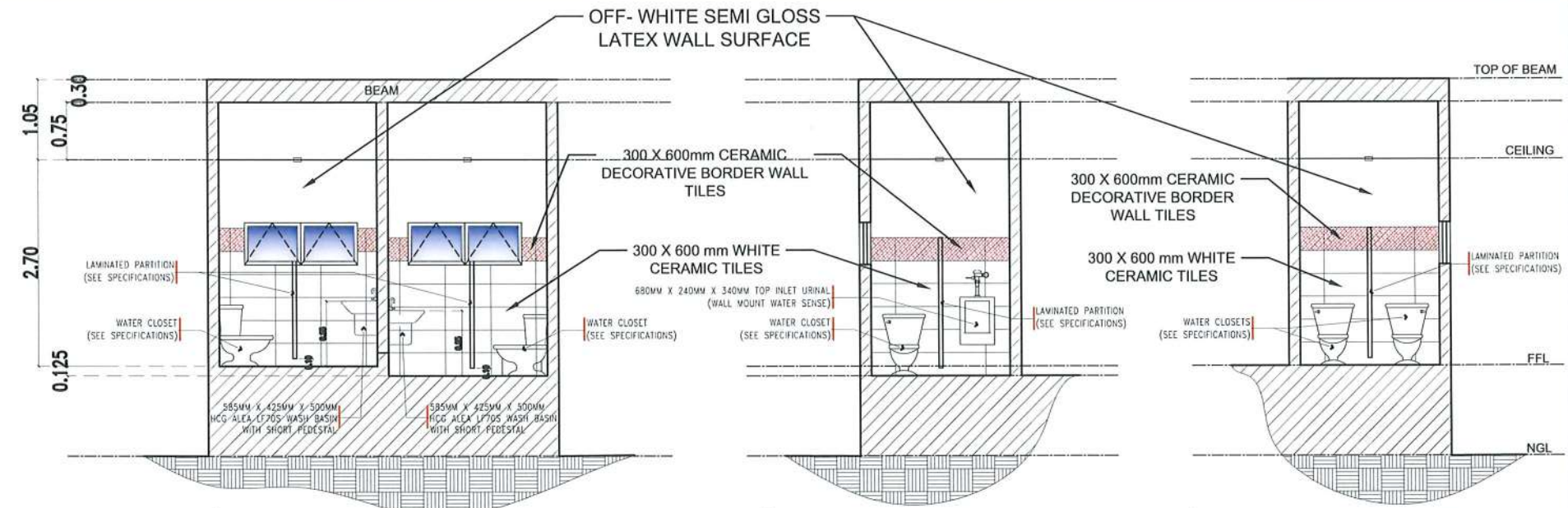


FLOOR PATTERN LAYOUT & FINISHES
SCALE 1:100 MTS.

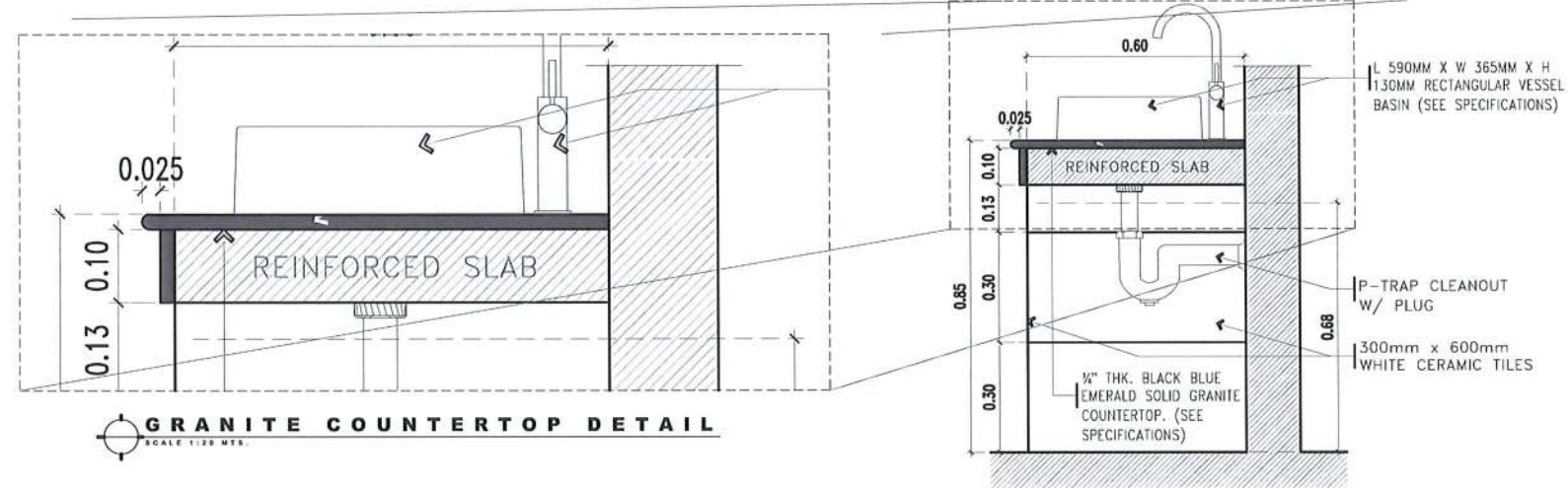
 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:	
	REFURBISHMENT OF TSU AMPHITHEATER		DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A-19
	PROJECT LOCATION:								LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DATE: MARCH 2023



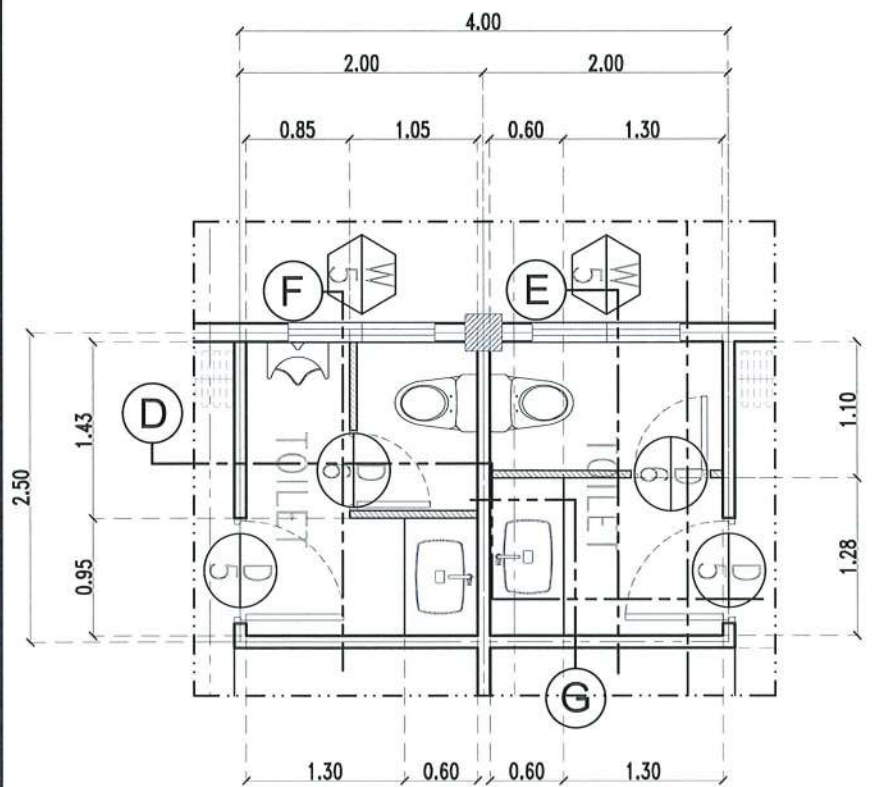
RESTROOM PLAN (AUDITORIUM)
SCALE 1:50 MTS.



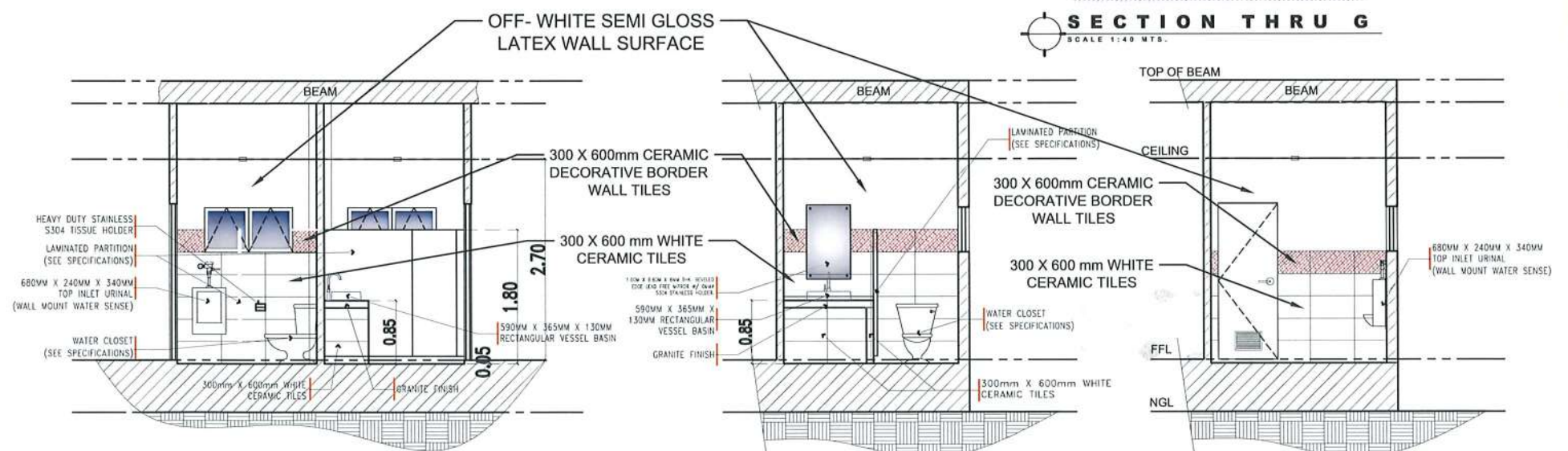
SECTION THRU A SCALE 1:80 MTS.
SECTION THRU B SCALE 1:80 MTS.
SECTION THRU C SCALE 1:80 MTS.



GRANITE COUNTERTOP DETAIL SCALE 1:20 MTS.
SECTION THRU G SCALE 1:40 MTS.

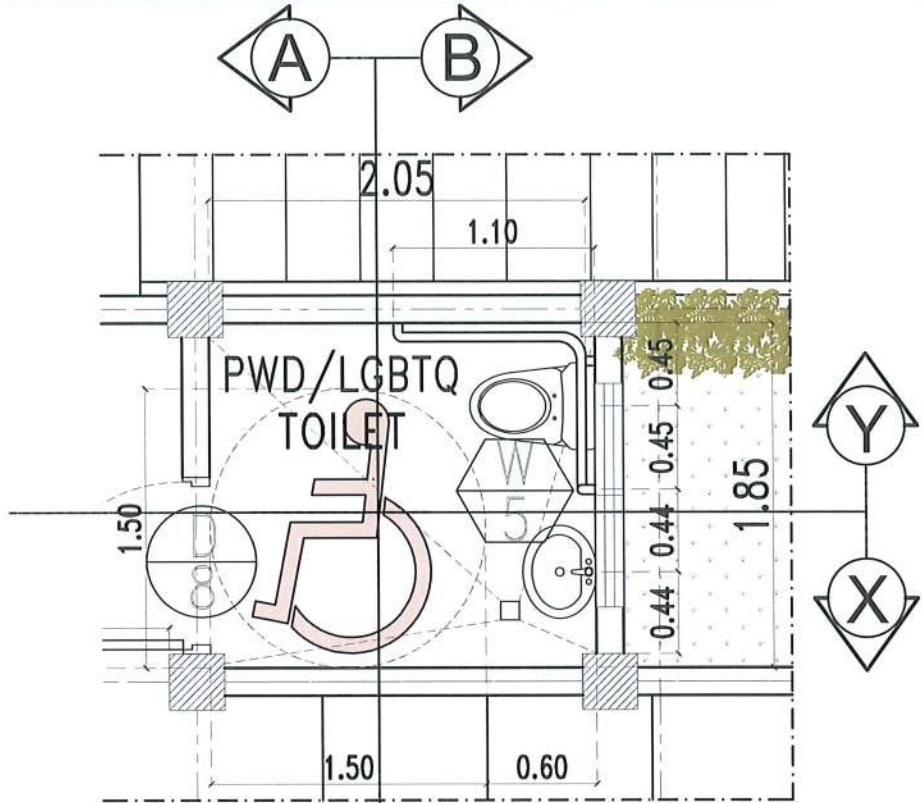


RESTROOM PLAN (DRESSING ROOM)
SCALE 1:60 MTS.



SECTION THRU D SCALE 1:80 MTS.
SECTION THRU E SCALE 1:80 MTS.
SECTION THRU F SCALE 1:80 MTS.

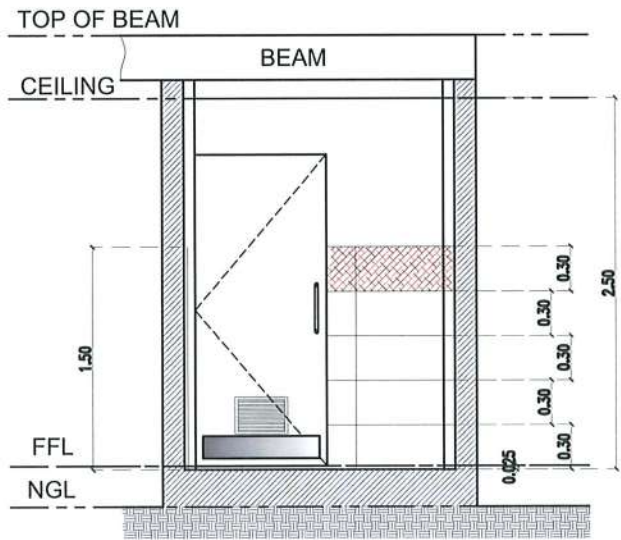
<p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLDO E. VELASCO PRESIDENT	AS SHOWN	A- 21
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO: 21 / 75



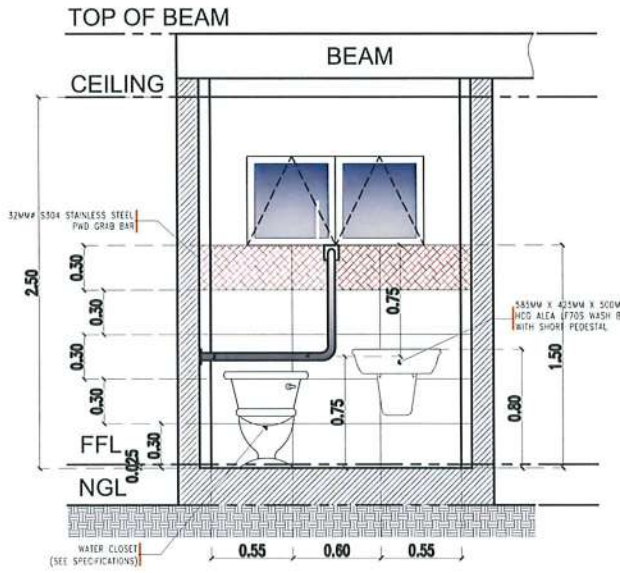
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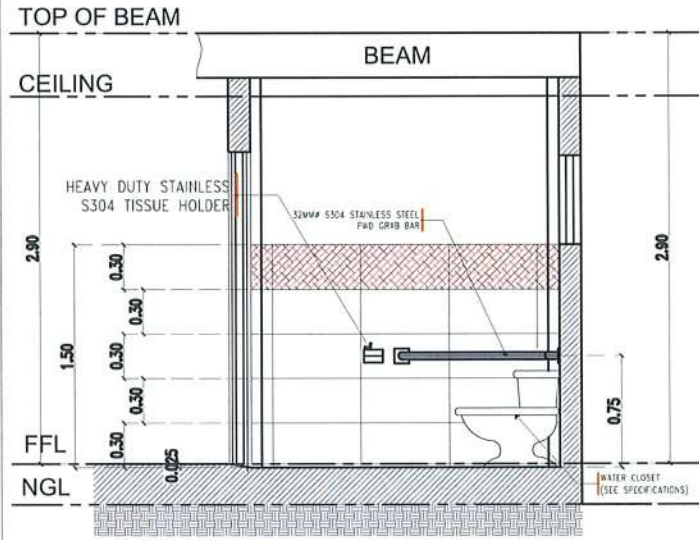
ALL-GENDER RESTROOM PERSPECTIVE



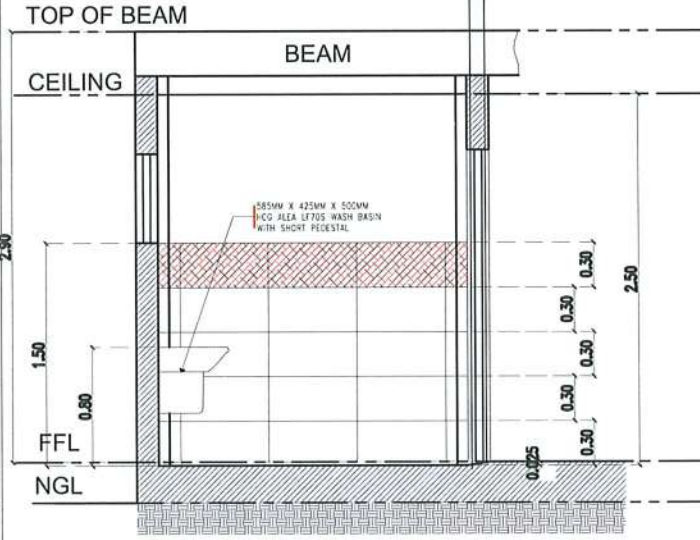
SECTION THRU A
SCALE 1:50 MTS.



SECTION THRU B
SCALE 1:50 MTS.



SECTION THRU Y
SCALE 1:50 MTS.



SECTION THRU X
SCALE 1:50 MTS.



PROJECT TITLE:
REFURBISHMENT OF TSU AMPHITHEATER

PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

REQUESTING OFFICE:
DR. JASPER JAY N. MENDOZA
DEAN, CTED

PREPARED BY:
AR. ULYSSES B. CALUYA
ARCHITECT, FDMO

CHECKED BY:
AR. ARLEN M. GUIEB
PLANNING UNIT HEAD, FDMO

CERTIFIED BY:
AR. CHERRY L. FABIANES
DIRECTOR, FDMO

RECOMMENDING APPROVAL:
DR. GRACE N. ROSETE
VP FOR ADMINISTRATION

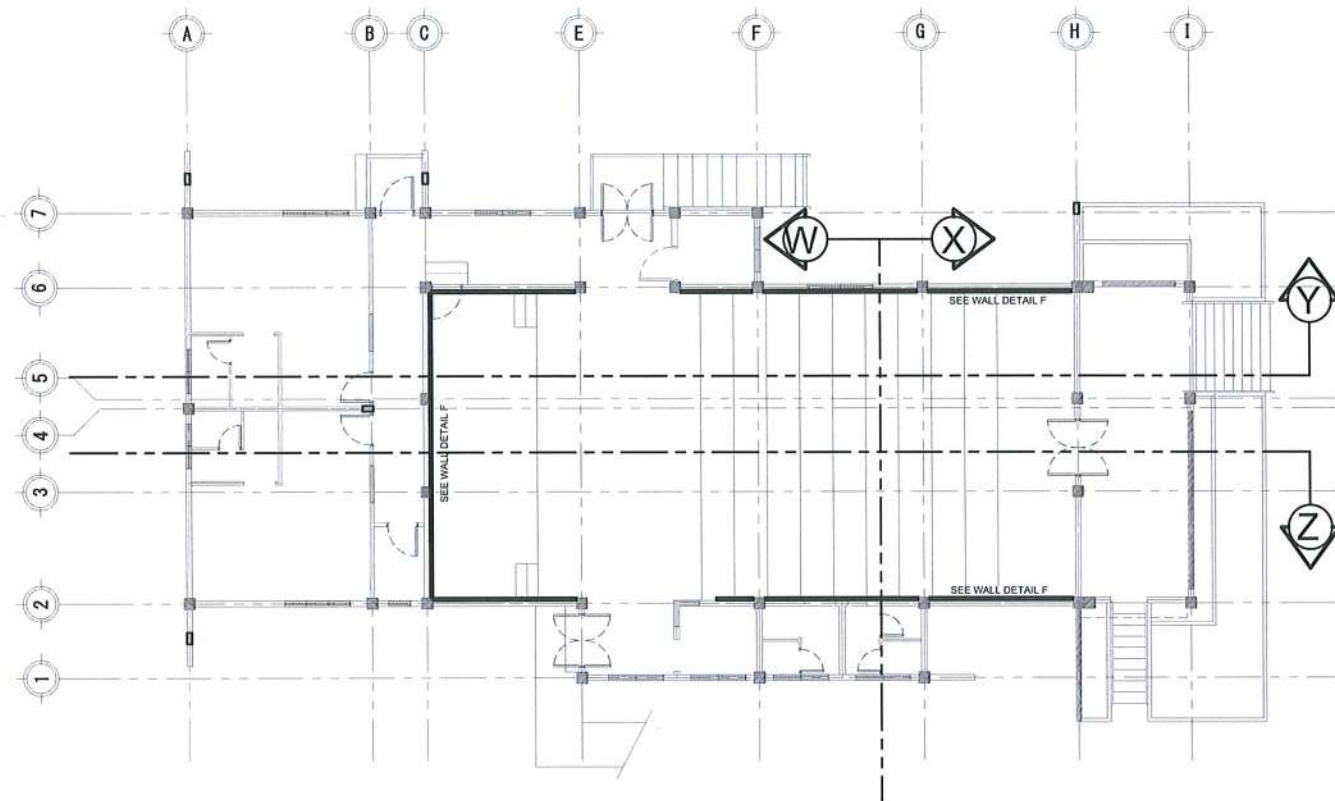
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN

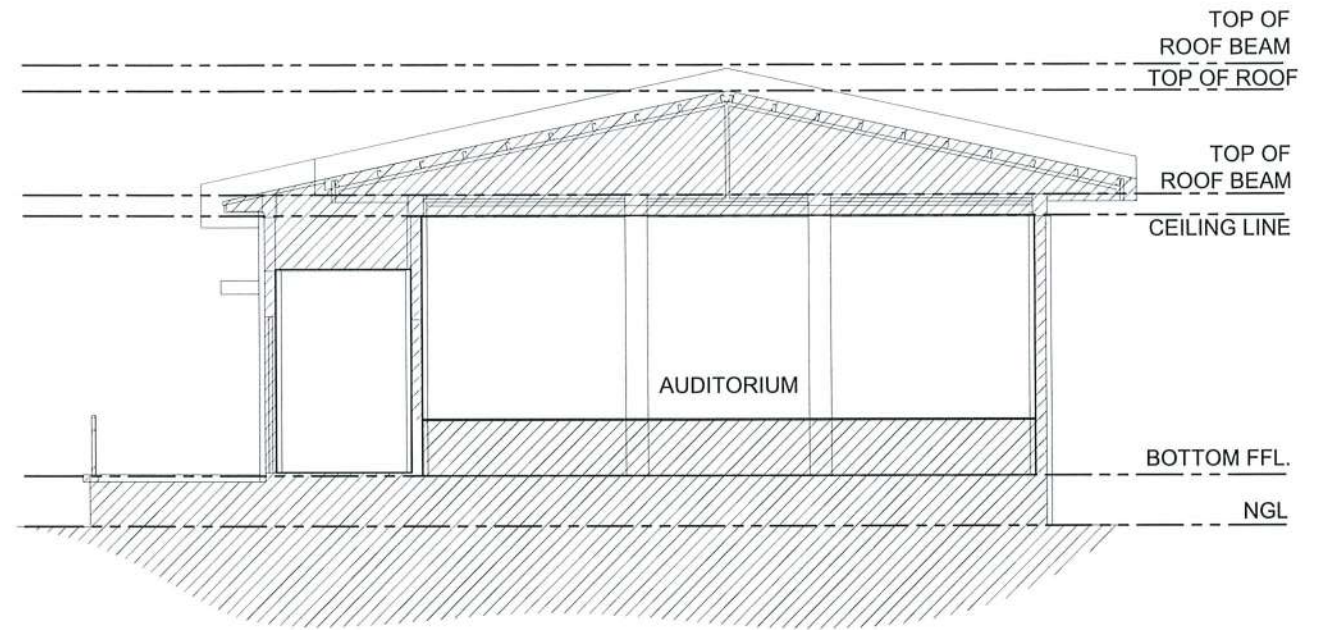
DATE: MARCH 2023

SHEET NO:
A- 22

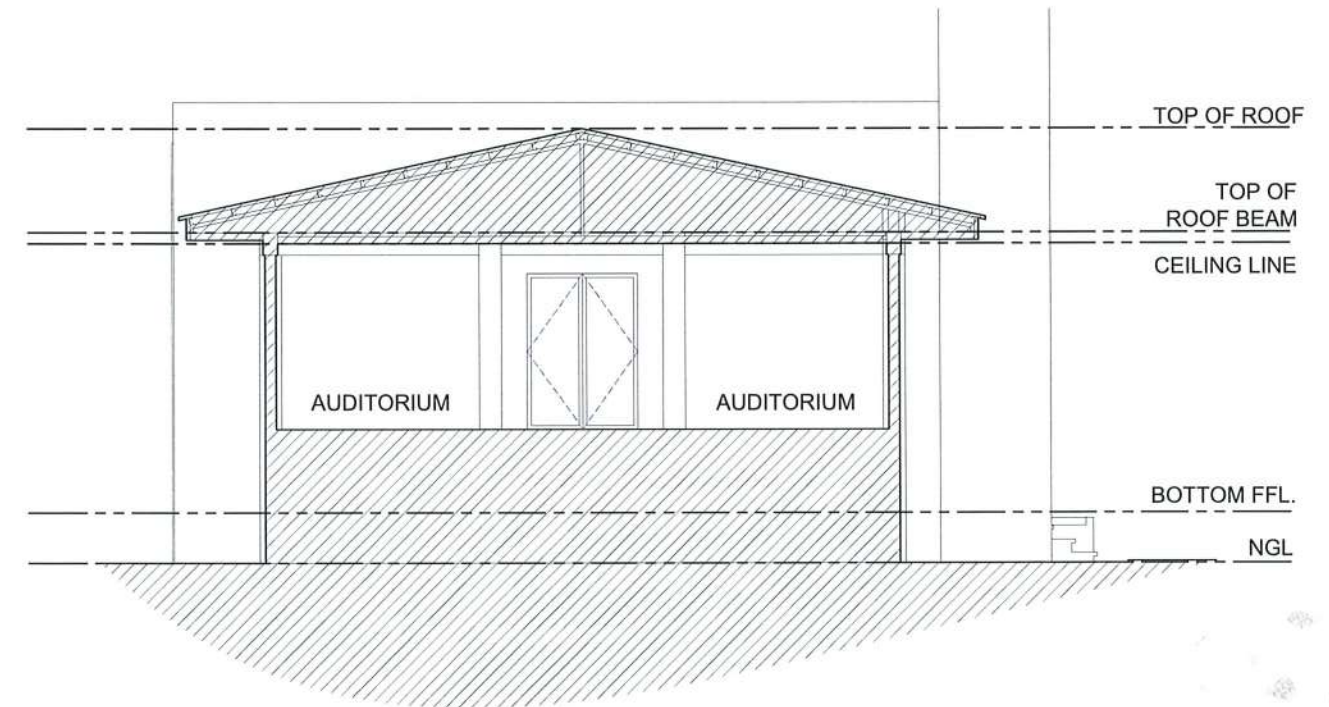
PAGE NO:
22 / 75



KEY PLAN FOR ACOUSTIC PANEL
SCALE 1:200 MTS.



SECTION THRU - W
SCALE 1:100 MTS.

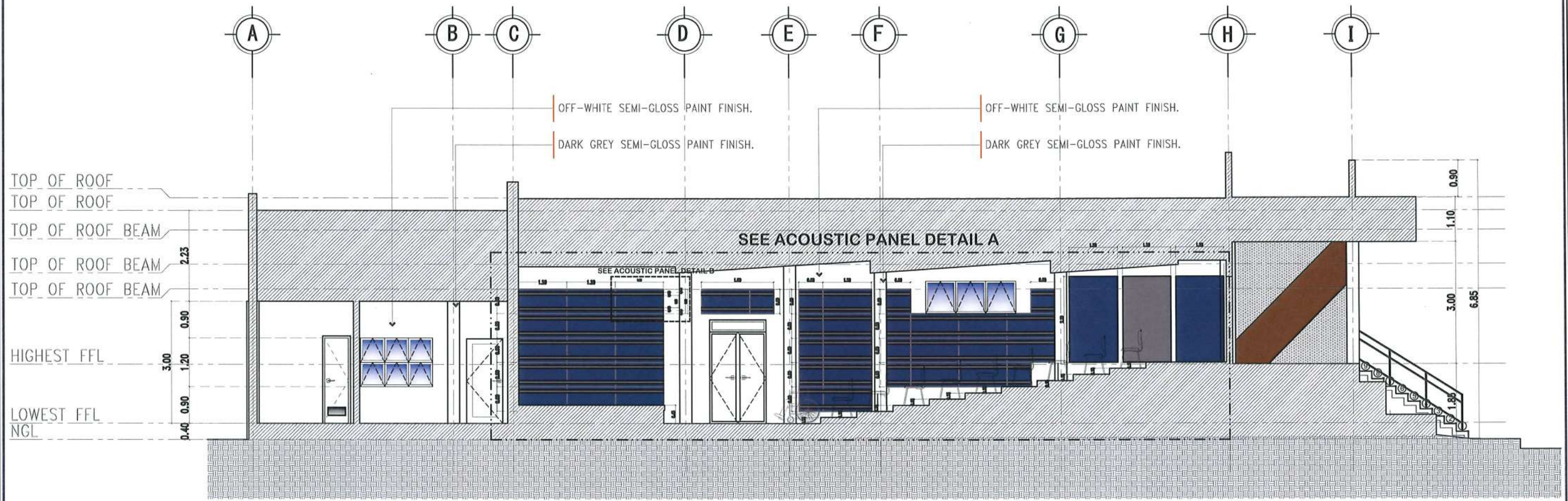


SECTION THRU - X
SCALE 1:100 MTS.



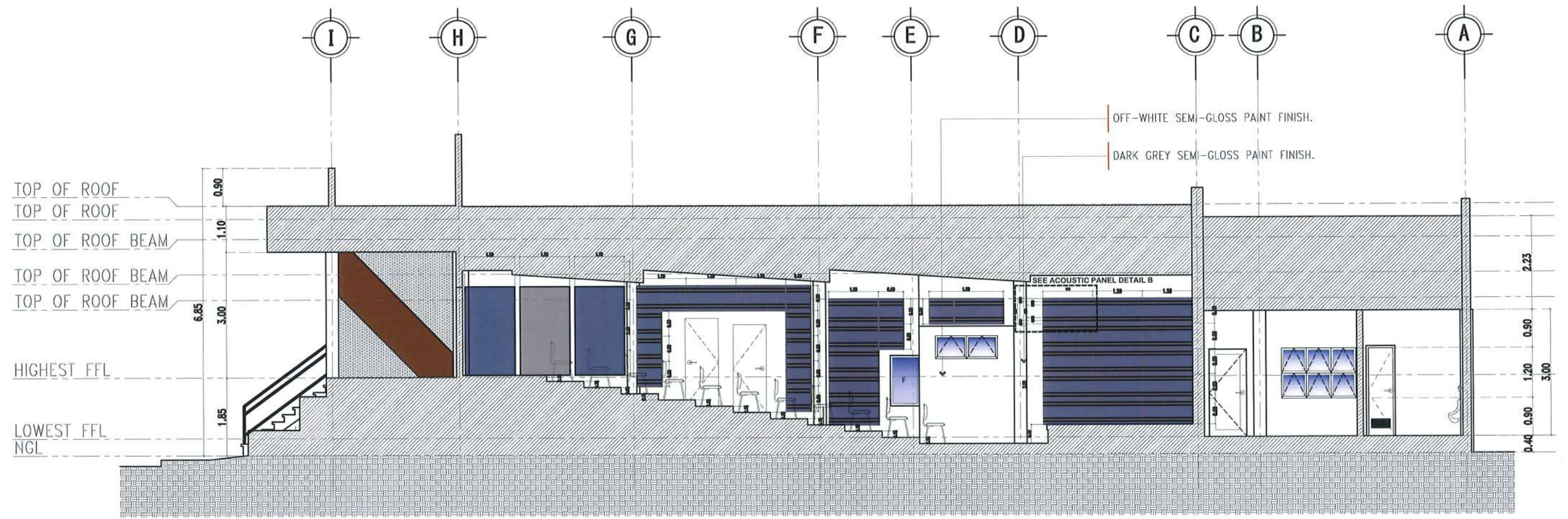
TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A- 24
PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY						DATE: MARCH 2023	PAGE NO: 24 / 75




SECTION THRU - Y
 SCALE 1:100 MTS.

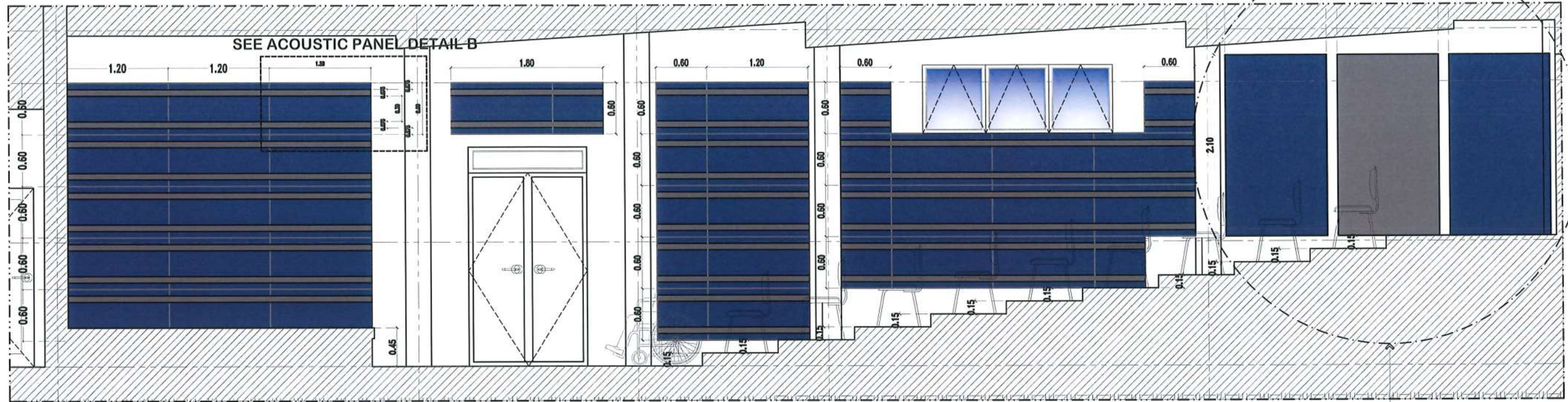
 TARLAC STATE UNIVERSITY <small>Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</small>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	 DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	 AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	 AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	 AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	 DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	 DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	AS SHOWN	A- 25
	PROJECT LOCATION:								DATE: MARCH 2023



SECTION THRU - Z

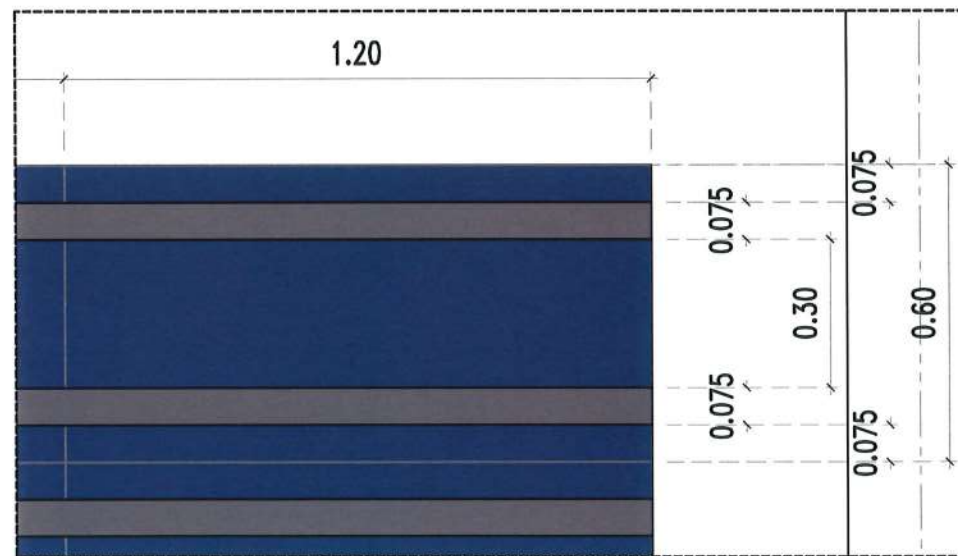
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 TARLAC STATE UNIVERSITY Facilities Development and Management Office <small>Romulo Boulevard, Tarlac City, Philippines 2100</small>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	AS SHOWN	A-26
	PROJECT LOCATION:							LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DATE: MARCH 2023



ACOUSTIC PANEL DETAIL A
SCALE 1:50 MTS.

SEE ACOUSTIC WALL DETAIL - E

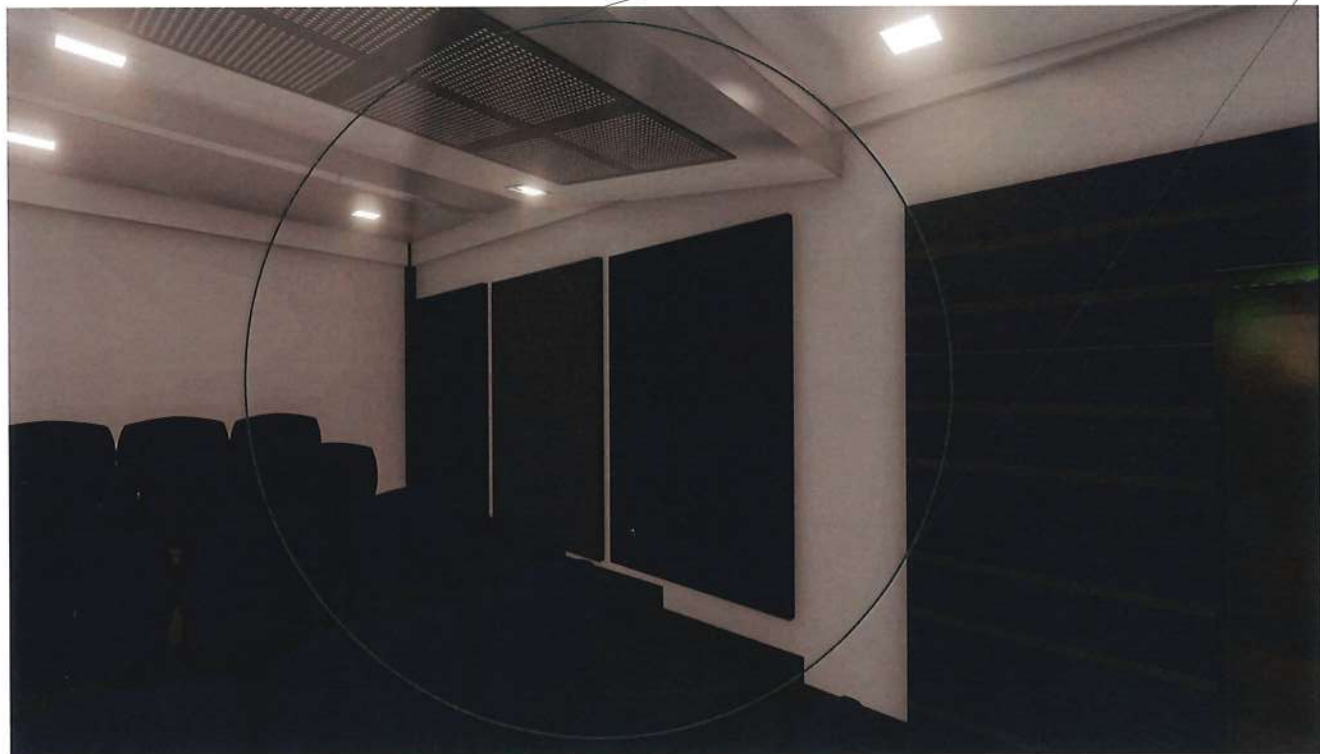


ACOUSTIC PANEL DETAIL B
SCALE 1:15 MTS.



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Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS: AS SHOWN	SHEET NO: A-27
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY-N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: MARCH 2023	PAGE NO: 27 / 75



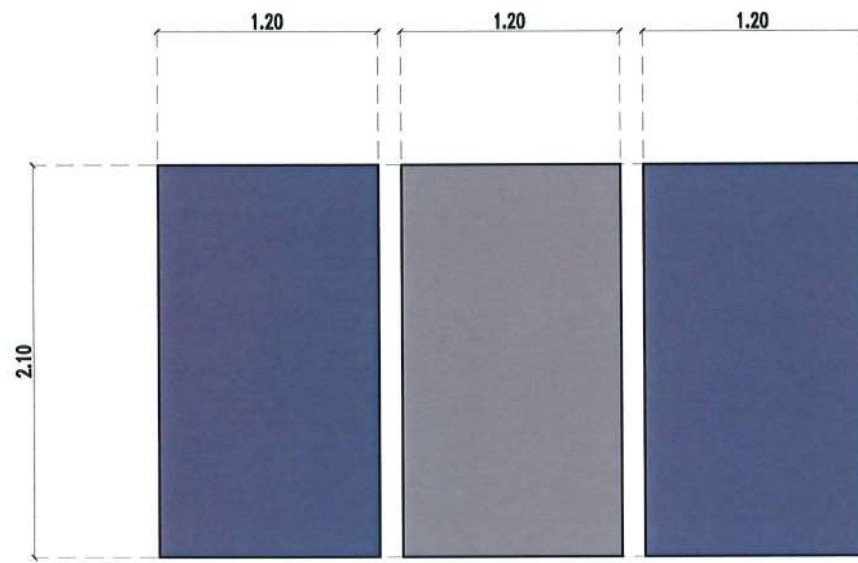
ACOUSTIC WALL DETAIL - E



POLYESTER PANEL ON 1/2" MARINE PLYWOOD COVERED WITH ACOUSTIC FOAM & POLYESTER FIBER ACOUSTIC SHEET.

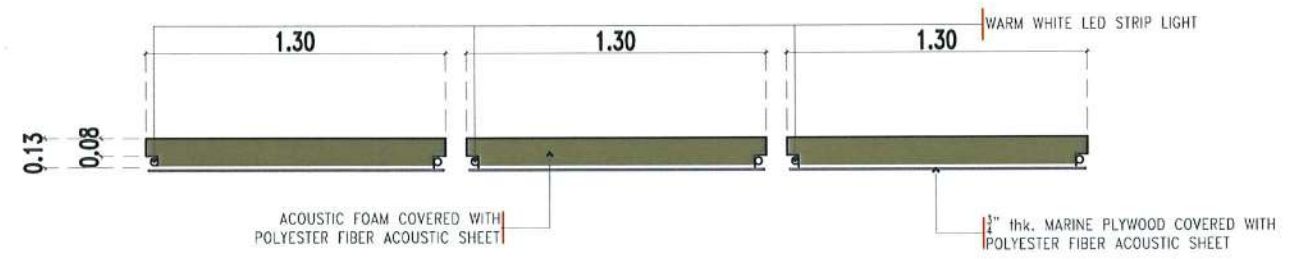
POLYESTER PANEL ON 1/2" MARINE PLYWOOD COVERED WITH ACOUSTIC FOAM & POLYESTER FIBER ACOUSTIC SHEET.

ACOUSTIC WALL DESIGN DETAILS



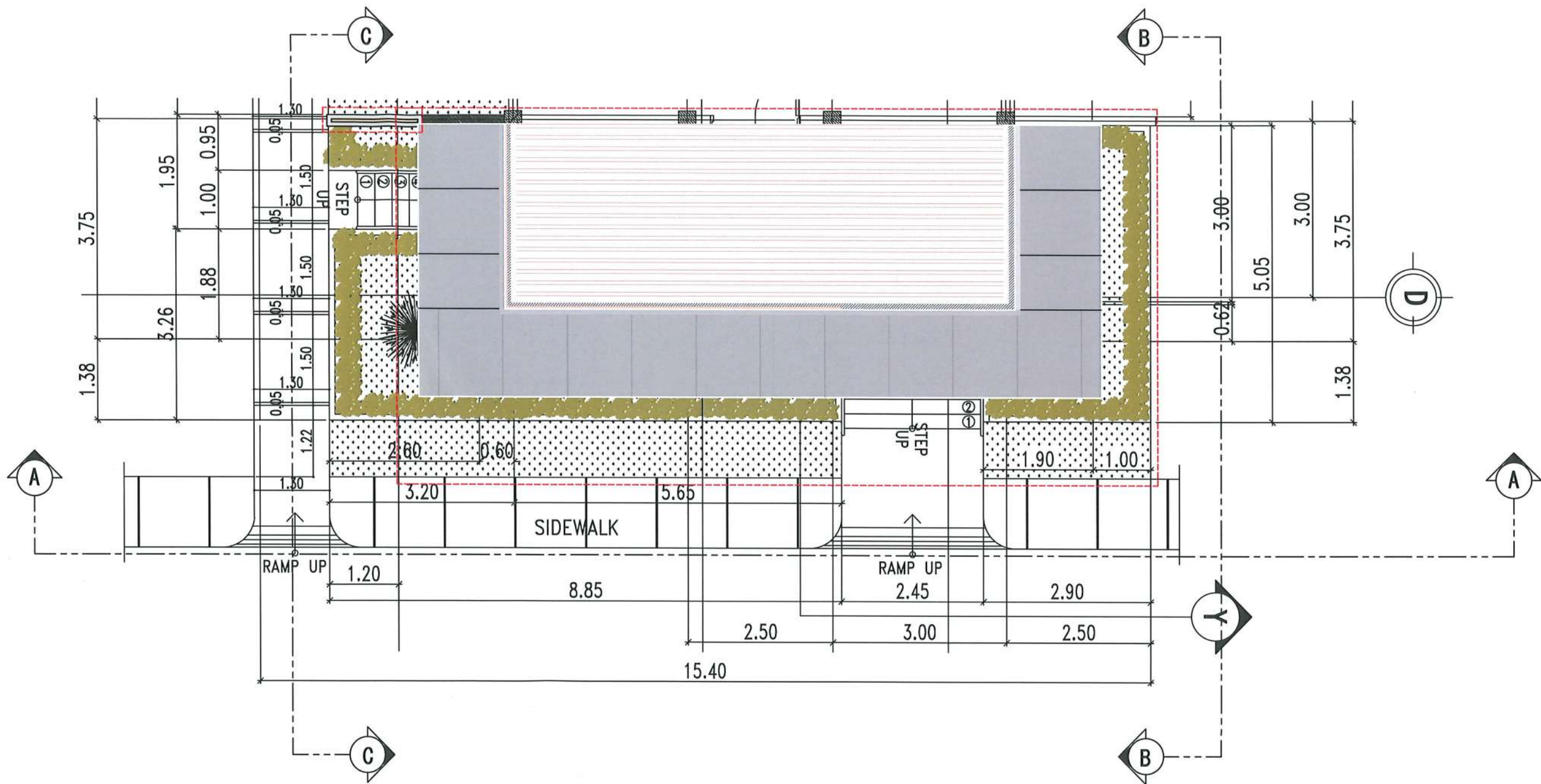
WALL DETAIL - E

SCALE: 1:60M



TOP VIEW SECTION

<p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	 DR. JASPER JAY N. MENDOZA DEAN, CTED	 AR. ULYSSES B. CALUYA ARCHITECT, FDMO	 AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	 AR. CHERRY L. FABIANES DIRECTOR, FDMO	 DR. GRACE N. ROSETE VP FOR ADMINISTRATION	 DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A- 28
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	28 / 75



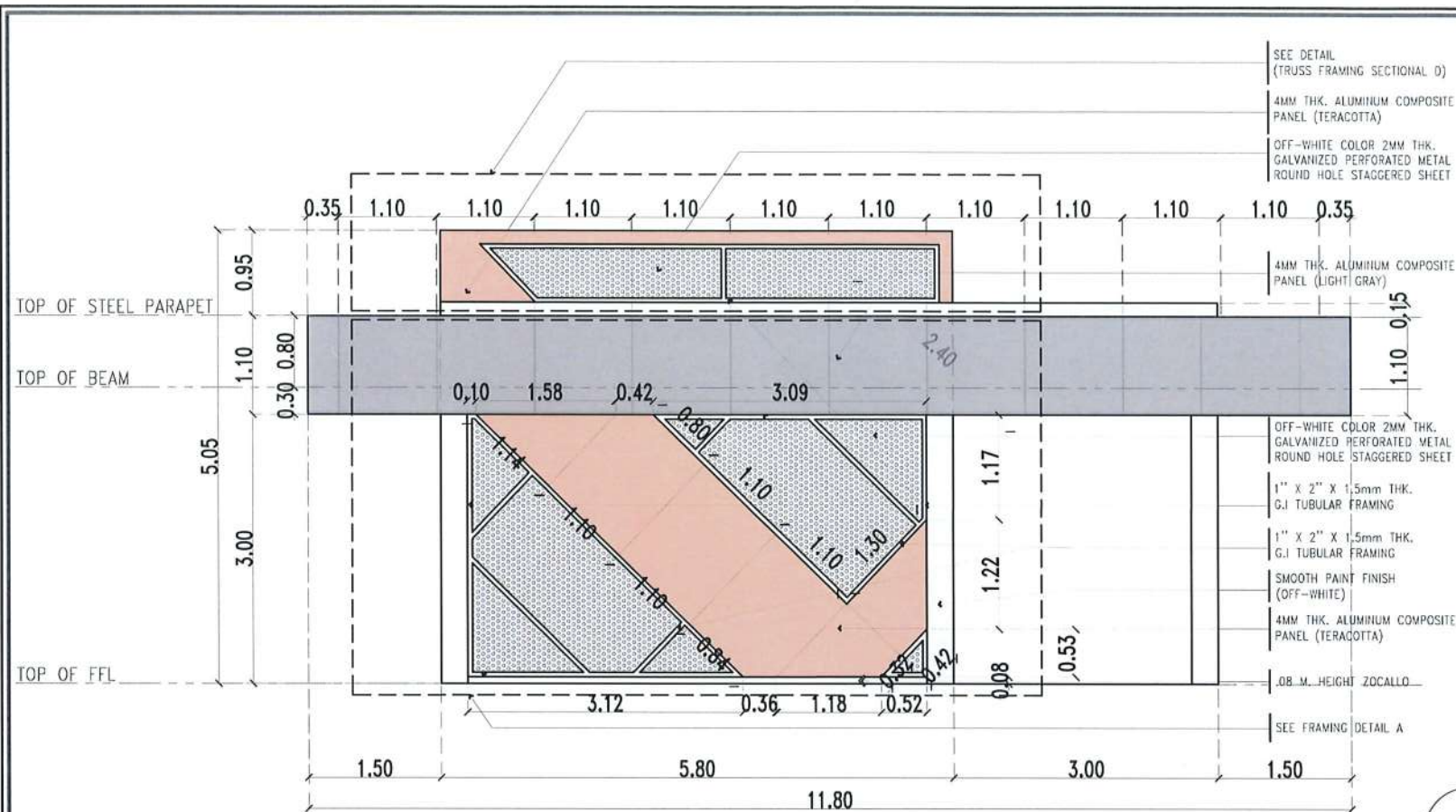
FRONT VESTIBULE BLOW-UP PLAN

SCALE 1:75 MTS.



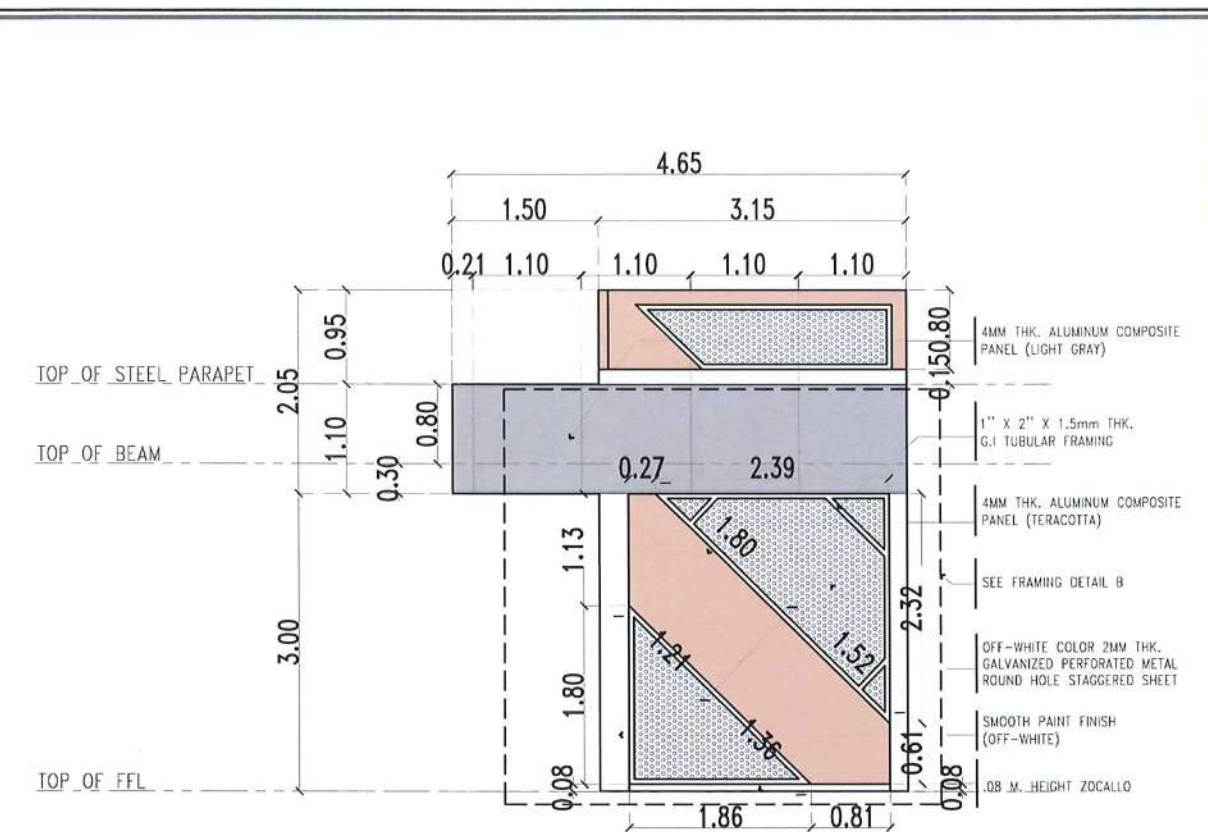
TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-29
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO: 29 / 75



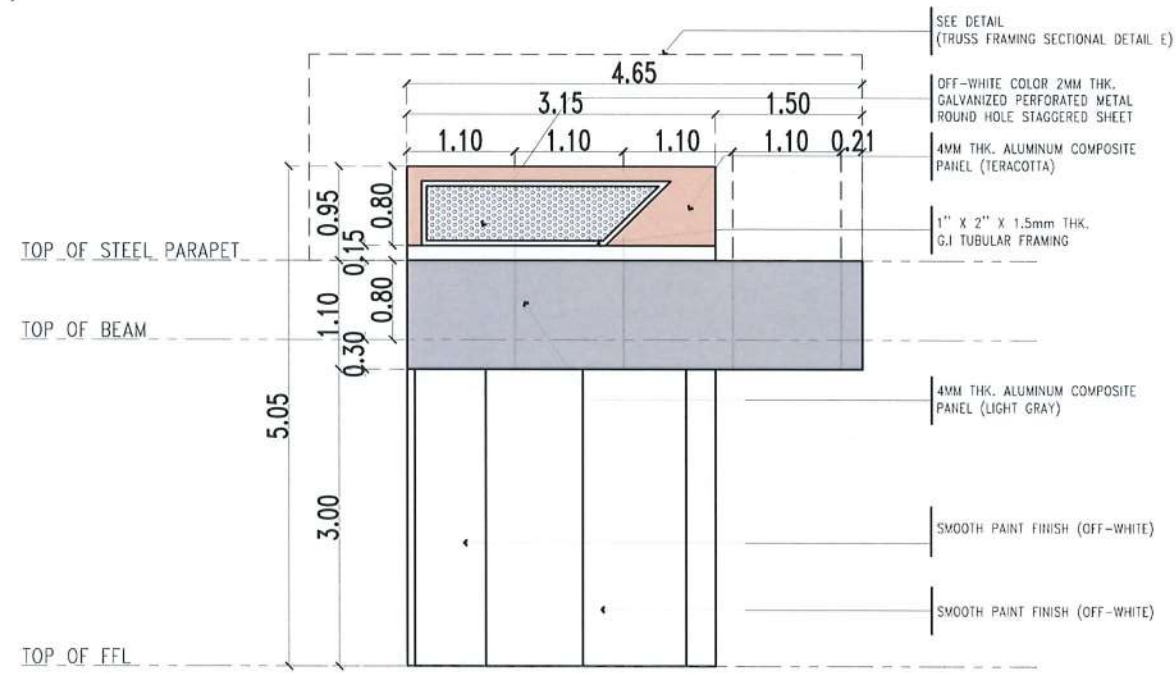
ELEVATION THRU A - A

SCALE 1:75 MTS.



ELEVATION THRU B - B

SCALE 1:75 MTS.



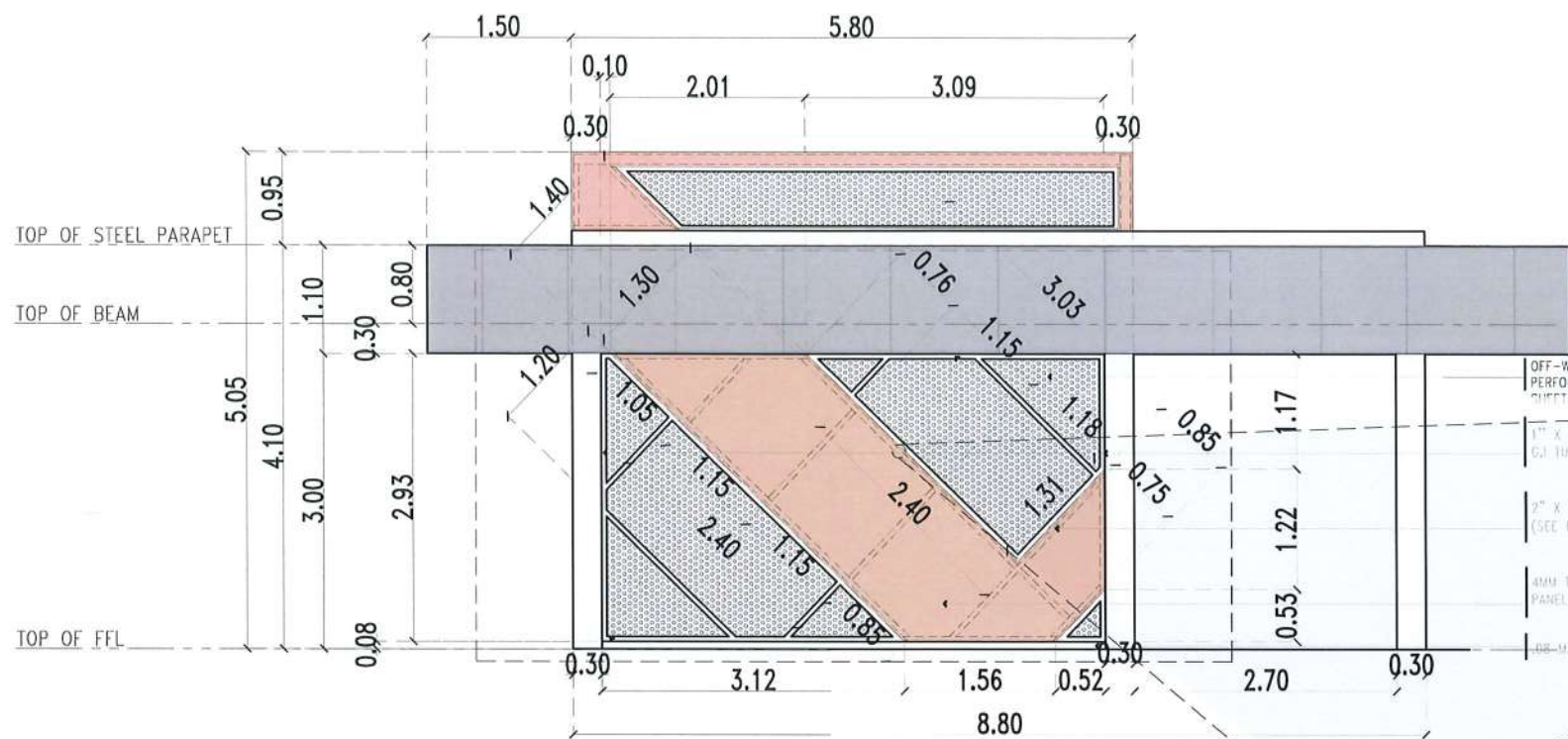
ELEVATION THRU C - C

SCALE 1:75 MTS.



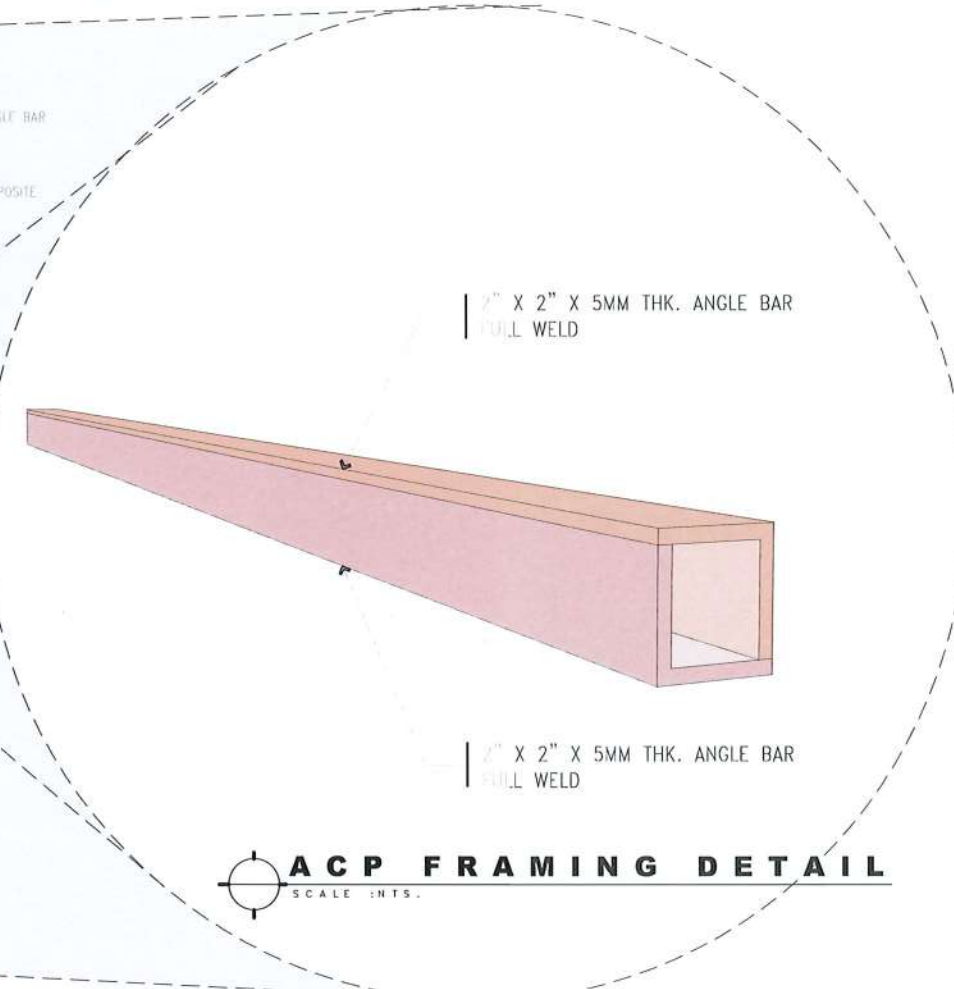
TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CIED	PREPARED BY: AR. MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: A-30
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO.: 30 / 75

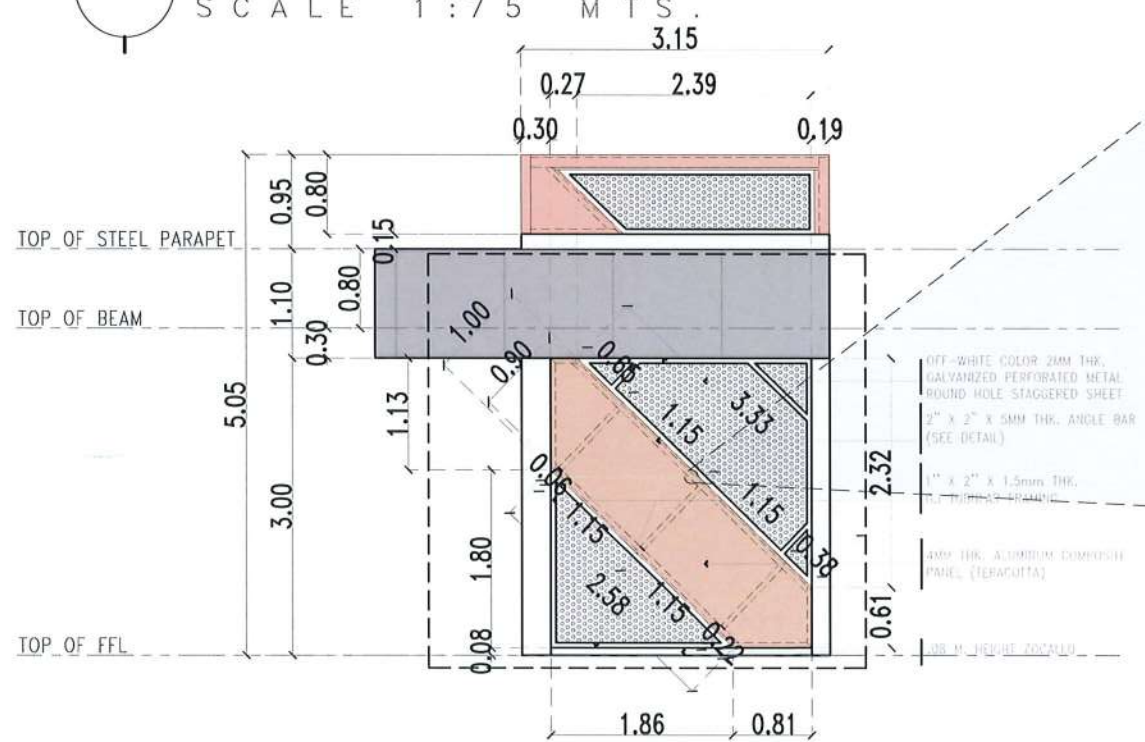


FRAMING DETAIL A
SCALE 1:75 MTS.

- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- 1" X 2" X 1.5mm THK. G.I. TUBULAR FRAMING
- 2" X 2" X 5MM THK. ANGLE BAR (SEE DETAIL)
- 4MM THK. ALUMINUM COMPOSITE PANEL (FERACOTIA)
- 68-U. HEIGHT ZOCALLO



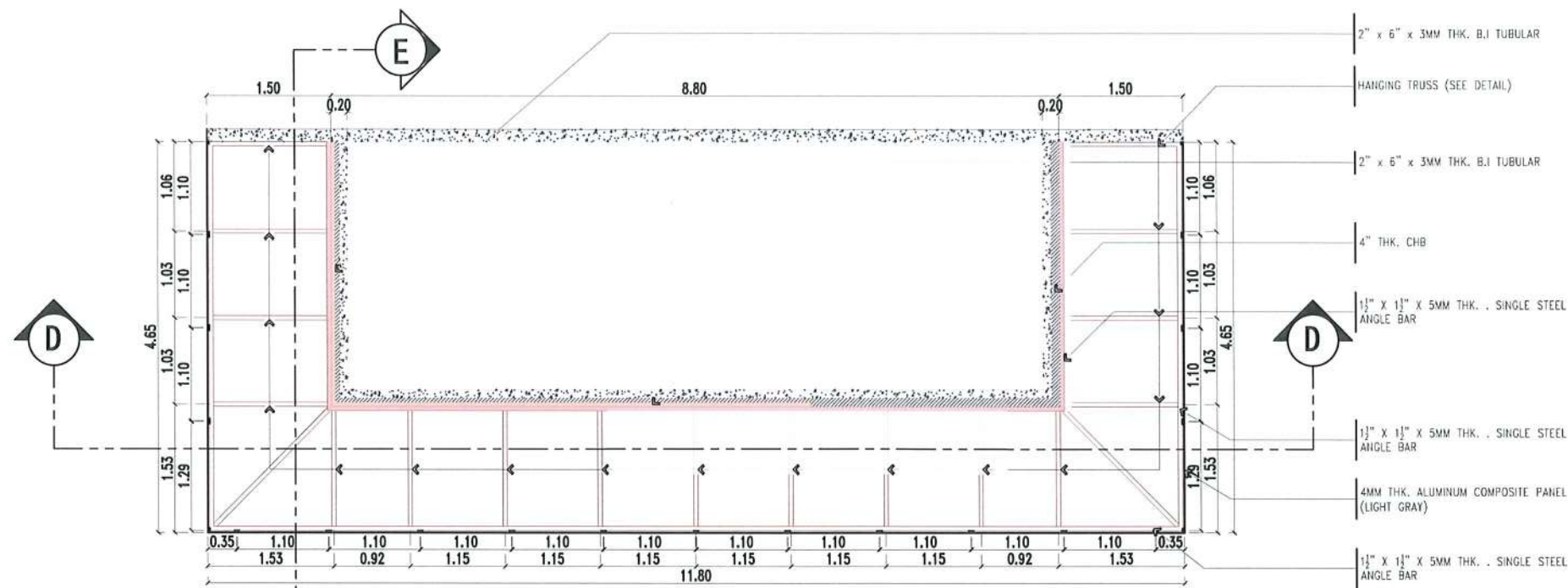
ACP FRAMING DETAIL
SCALE : MTS.



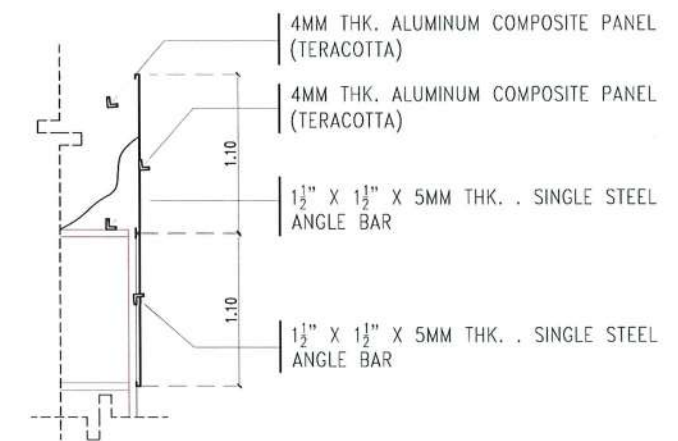
FRAMING DETAIL B
SCALE 1:75 MTS.

- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- 2" X 2" X 5MM THK. ANGLE BAR (SEE DETAIL)
- 1" X 2" X 1.5mm THK. G.I. TUBULAR FRAMING
- 4MM THK. ALUMINUM COMPOSITE PANEL (FERACOTIA)
- 68-U. HEIGHT ZOCALLO

PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO: A- 31 PAGE NO: 31/75
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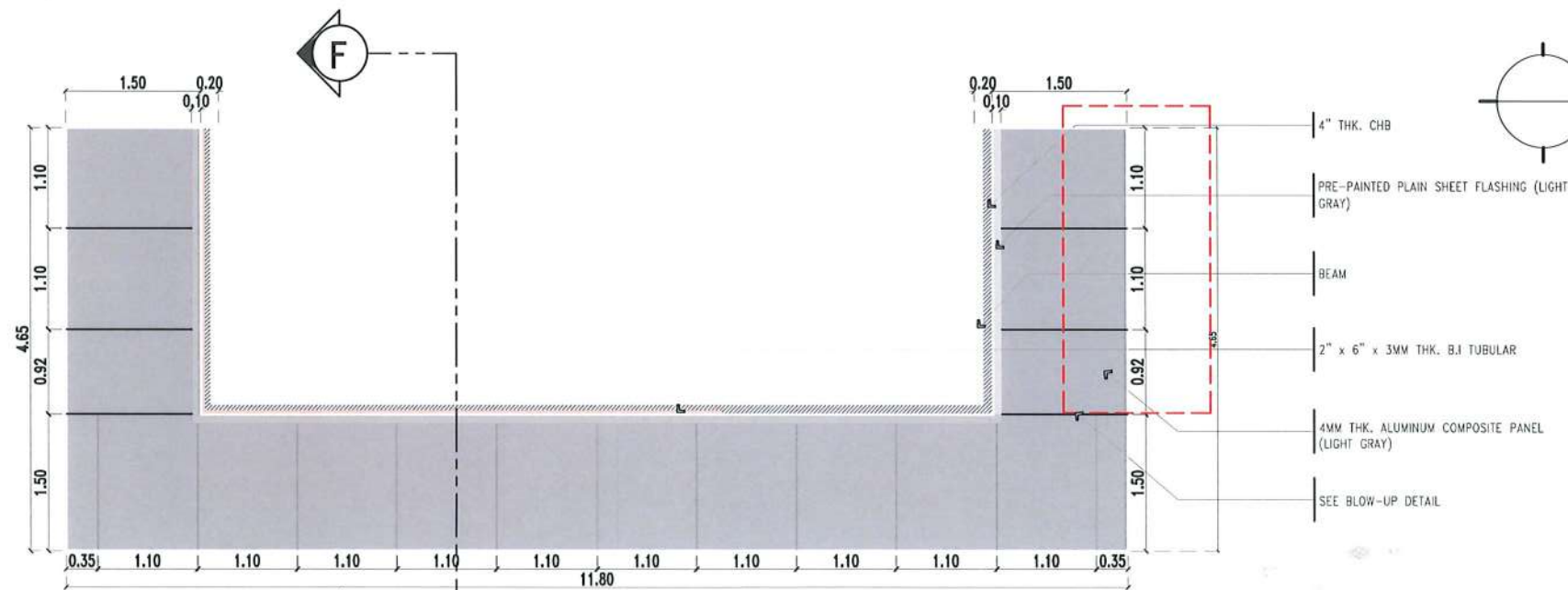


NOTE: PROVIDE EMBEDDED CAST IN PLACE DOWELS FOR TRUSS FRAMING IN COLUMNS AND BEAMS.



STEEL TRUSS FRAMING
SCALE 1:75 MTS.

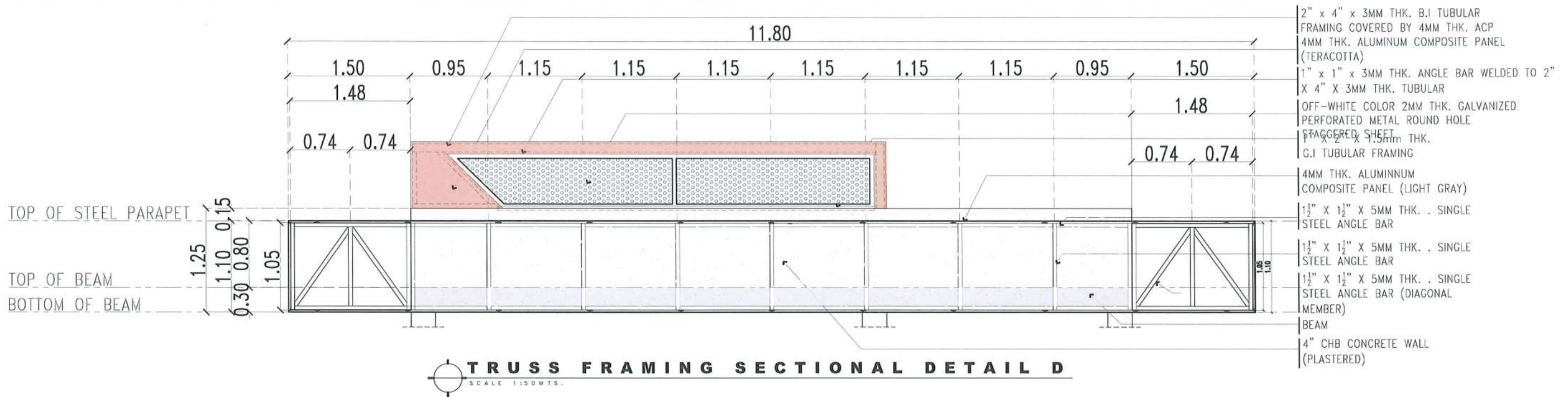
BLOW-UP DETAIL
SCALE 1:50 MTS.



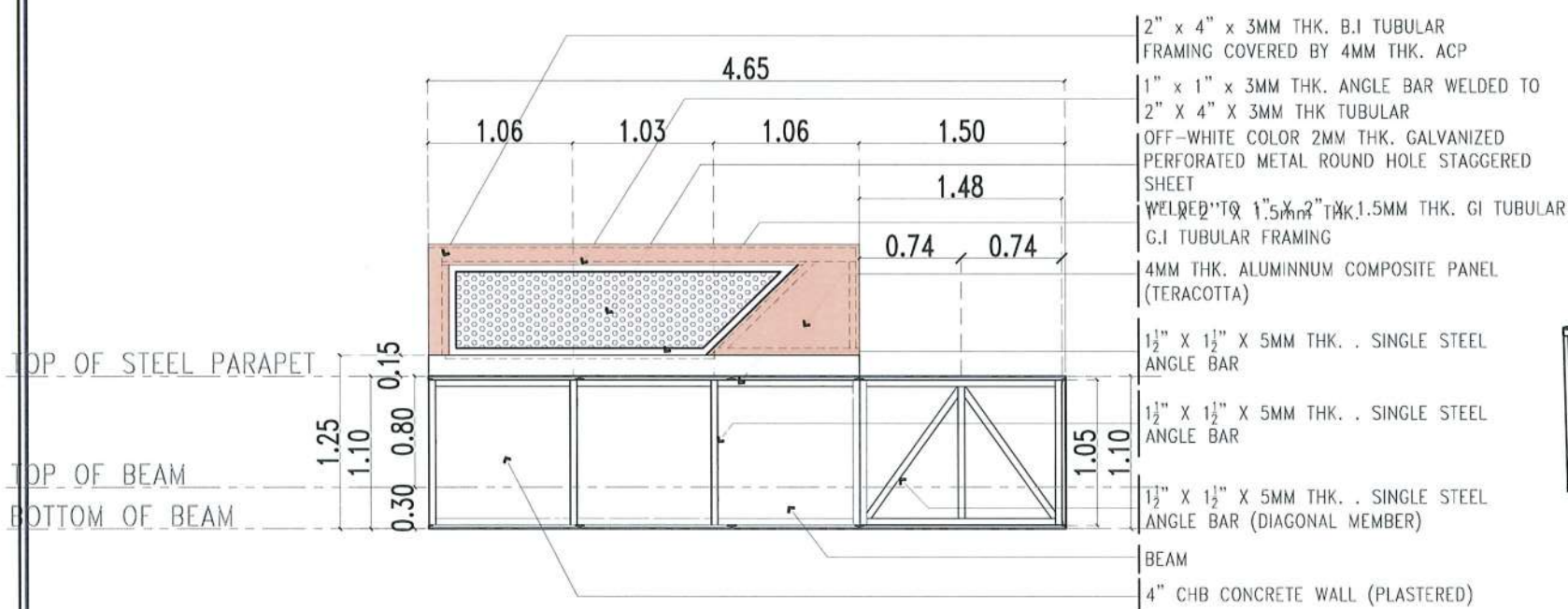
ACP TOP VIEW LAYOUT
SCALE 1:75 MTS.



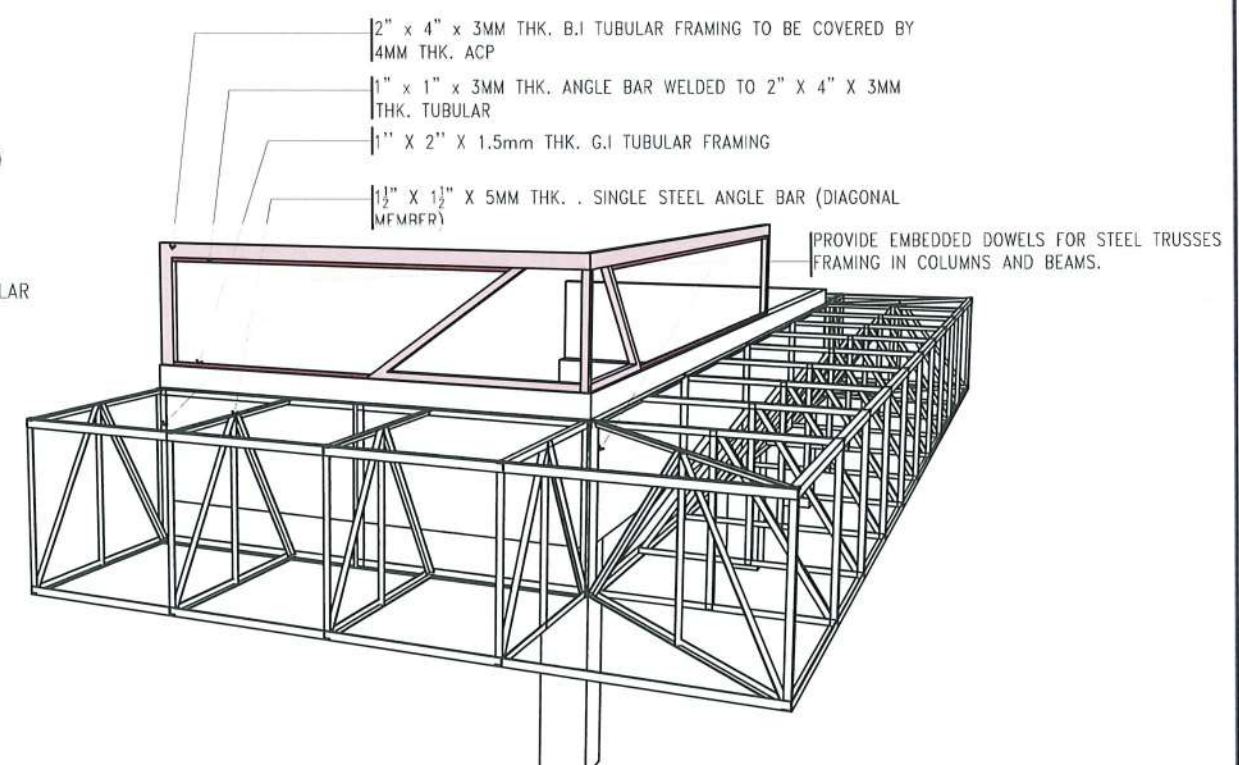
PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: A-32
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO.: 32 / 75



- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING COVERED BY 4MM THK. ACP
- 4MM THK. ALUMINUM COMPOSITE PANEL (TERACOTTA)
- 1" x 1" x 3MM THK. ANGLE BAR WELDED TO 2" X 4" X 3MM THK. TUBULAR
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- WELDED TO 1.5" X 2" X 1.5MM THK. G.I TUBULAR FRAMING
- 4MM THK. ALUMINUM COMPOSITE PANEL (LIGHT GRAY)
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR (DIAGONAL MEMBER)
- BEAM
- 4" CHB CONCRETE WALL (PLASTERED)



- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING COVERED BY 4MM THK. ACP
- 1" x 1" x 3MM THK. ANGLE BAR WELDED TO 2" X 4" X 3MM THK TUBULAR
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- WELDED TO 1.5" X 2" X 1.5MM THK. G.I TUBULAR FRAMING
- 4MM THK. ALUMINUM COMPOSITE PANEL (TERACOTTA)
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR
- 1 1/2" X 1 1/2" X 5MM THK. SINGLE STEEL ANGLE BAR (DIAGONAL MEMBER)
- BEAM
- 4" CHB CONCRETE WALL (PLASTERED)

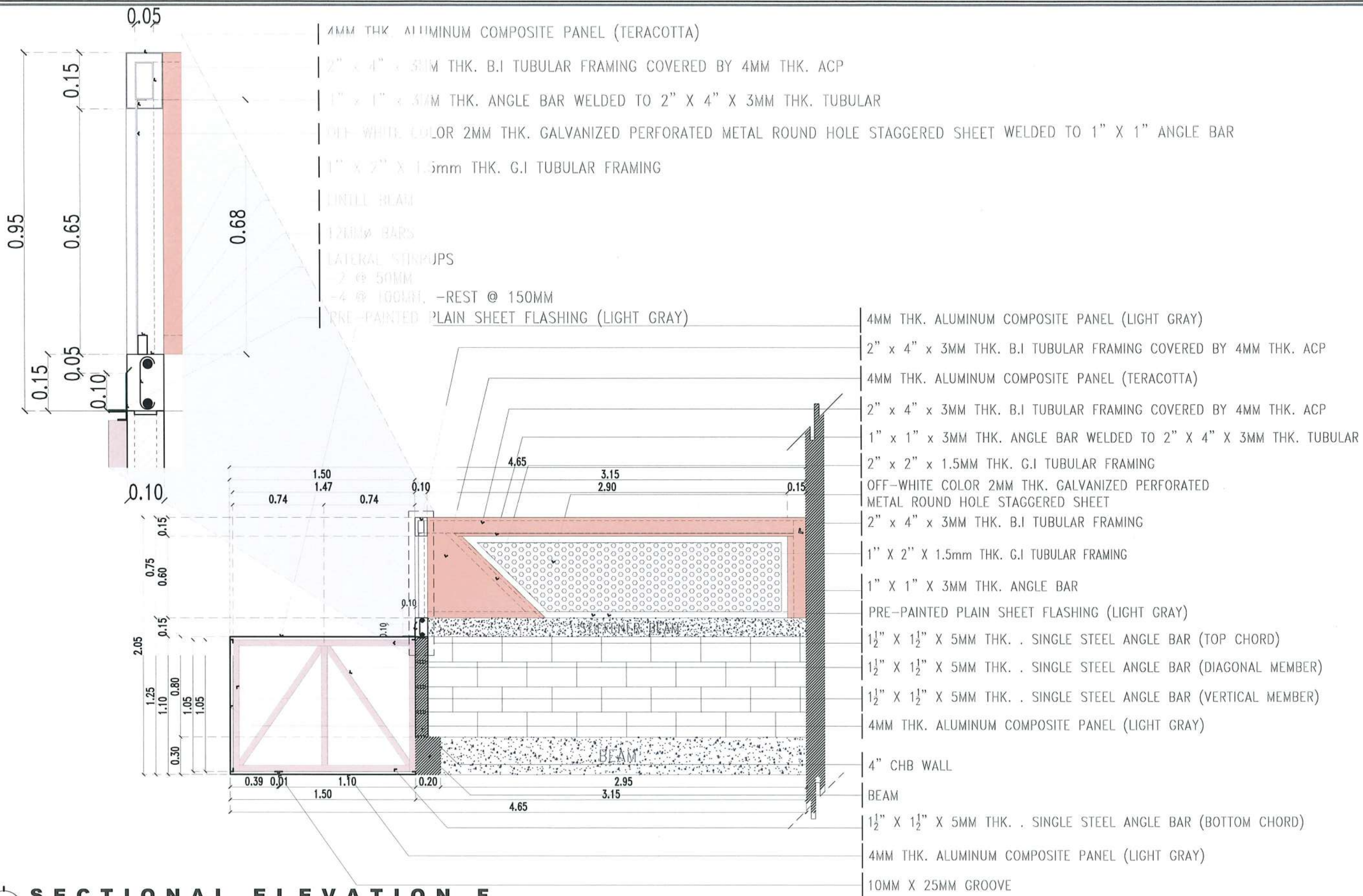


NOTE: PROVIDE EMBEDDED CAST IN PLACE DOWELS FOR TRUSS FRAMING IN COLUMNS AND BEAMS.



PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: DR. JASPER JAY N. MENDOZA DEAN, CTED	CHECKED BY: AR. MINER D. BIDANIA ARCHITECT, FDMO	CERTIFIED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	RECOMMENDING APPROVAL: AR. CHERRY L. FABIANES DIRECTOR, FDMO	APPROVED: DR. GRACEN ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-33 PAGE NO: 33 / 75
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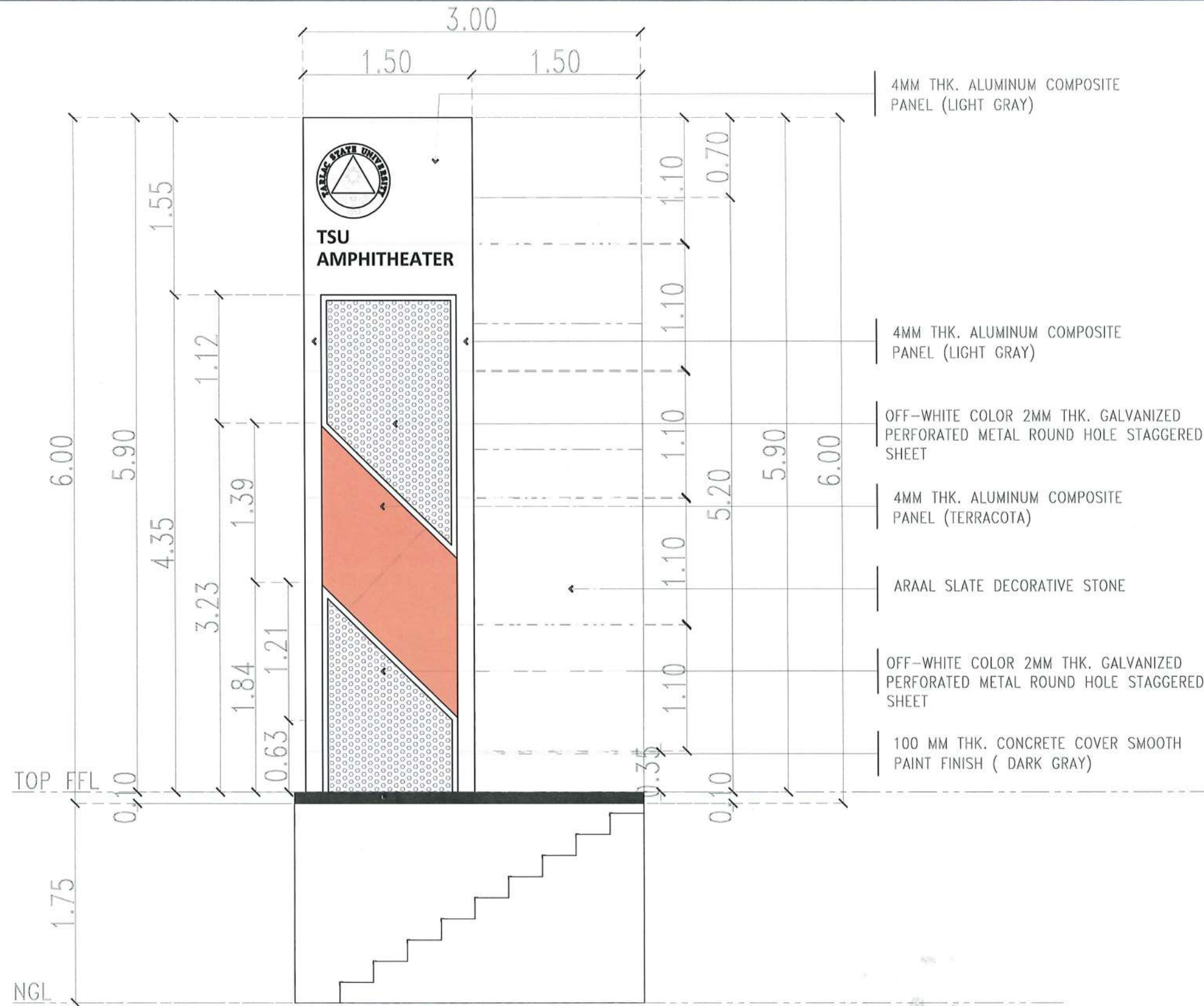
DATE: MARCH 2023



- 4MM THK. ALUMINUM COMPOSITE PANEL (TERACOTTA)
- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING COVERED BY 4MM THK. ACP
- 1" x 1" x 3MM THK. ANGLE BAR WELDED TO 2" X 4" X 3MM THK. TUBULAR
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET WELDED TO 1" X 1" ANGLE BAR
- 1" X 2" X 1.5mm THK. G.I TUBULAR FRAMING
- LINTIL BEAM
- 12MM BARS
- LATERAL STIRRUPS
- 2 @ 50MM
- 4 @ 100MM, -REST @ 150MM
- PRE-PAINTED PLAIN SHEET FLASHING (LIGHT GRAY)
- 4MM THK. ALUMINUM COMPOSITE PANEL (LIGHT GRAY)
- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING COVERED BY 4MM THK. ACP
- 4MM THK. ALUMINUM COMPOSITE PANEL (TERACOTTA)
- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING COVERED BY 4MM THK. ACP
- 1" x 1" x 3MM THK. ANGLE BAR WELDED TO 2" X 4" X 3MM THK. TUBULAR
- 2" x 2" x 1.5MM THK. G.I TUBULAR FRAMING
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- 2" x 4" x 3MM THK. B.I TUBULAR FRAMING
- 1" X 2" X 1.5mm THK. G.I TUBULAR FRAMING
- 1" X 1" X 3MM THK. ANGLE BAR
- PRE-PAINTED PLAIN SHEET FLASHING (LIGHT GRAY)
- 1 1/2" X 1 1/2" X 5MM THK. . SINGLE STEEL ANGLE BAR (TOP CHORD)
- 1 1/2" X 1 1/2" X 5MM THK. . SINGLE STEEL ANGLE BAR (DIAGONAL MEMBER)
- 1 1/2" X 1 1/2" X 5MM THK. . SINGLE STEEL ANGLE BAR (VERTICAL MEMBER)
- 4MM THK. ALUMINUM COMPOSITE PANEL (LIGHT GRAY)
- 4" CHB WALL
- BEAM
- 1 1/2" X 1 1/2" X 5MM THK. . SINGLE STEEL ANGLE BAR (BOTTOM CHORD)
- 4MM THK. ALUMINUM COMPOSITE PANEL (LIGHT GRAY)
- 10MM X 25MM GROOVE

SECTIONAL ELEVATION F
SCALE 1:30 MTS.

<p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER		AR. MINER D. BIDANIA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A-34
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA DEAN, CTED						DATE: MARCH 2023	PAGE NO: 34 / 75

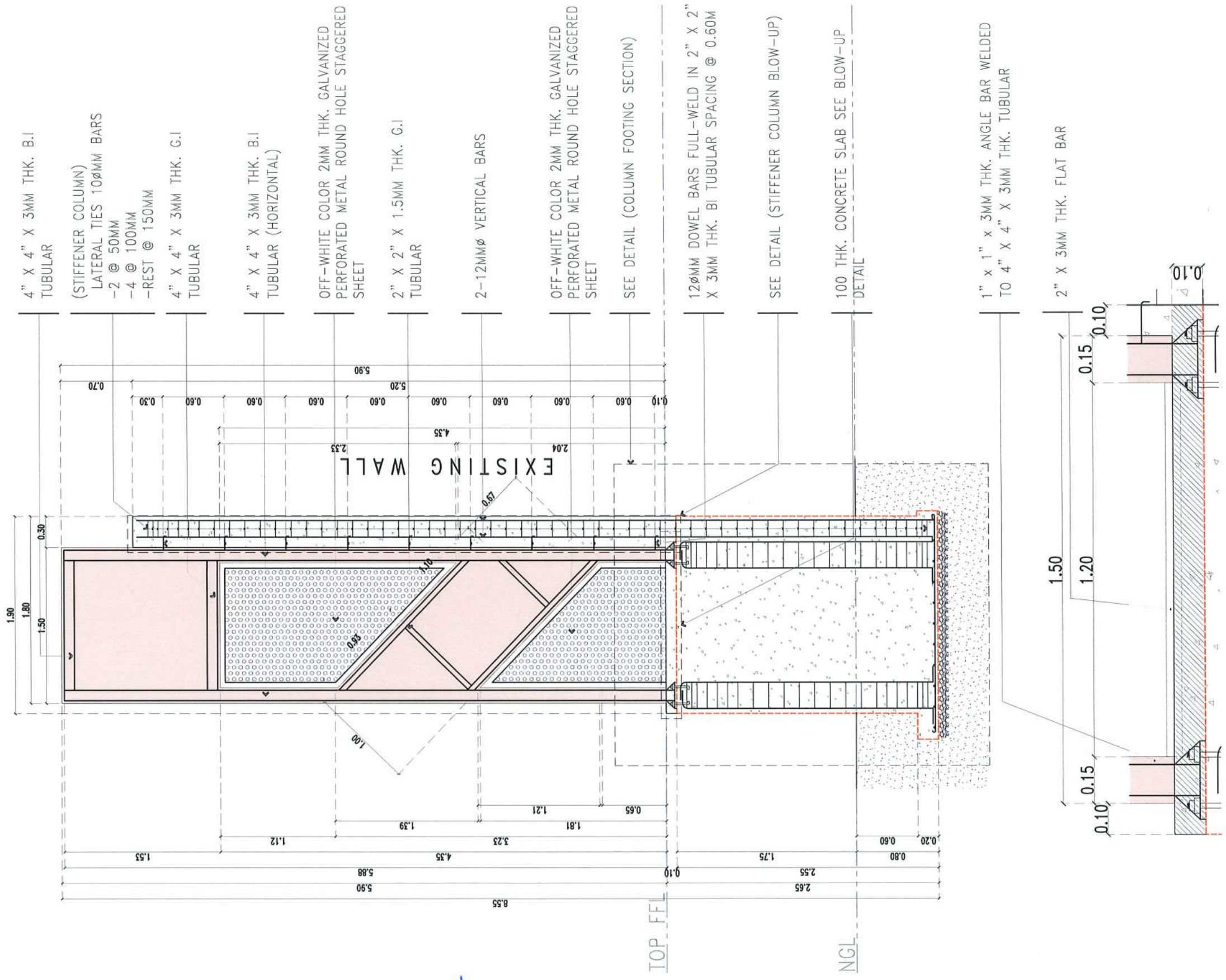


AMPHITHEATER LOGO MONOLITH
 SCALE 1:40 MTS.



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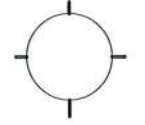
PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR/MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: A- 35
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO.: 35 / 75



BLOW-UP DETAIL

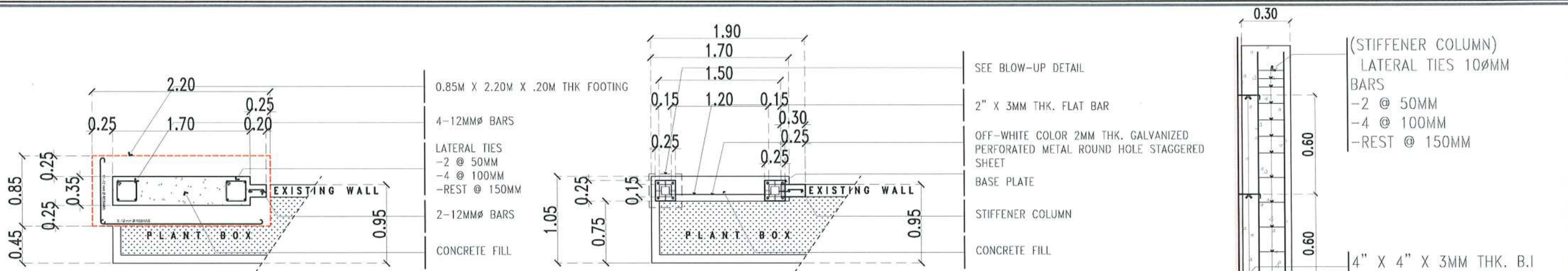
AMPHITHEATER LOGO MONOLITH FRAMING DETAIL

SCALE 1:40 M.T.S.



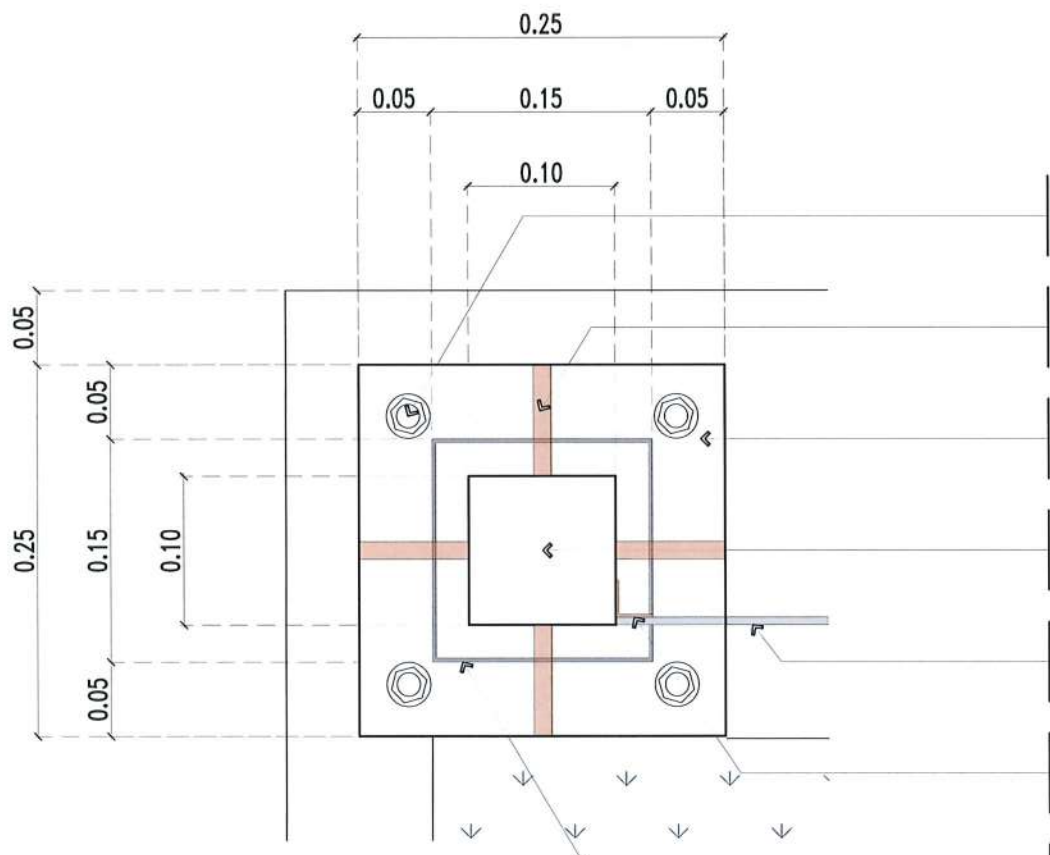

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Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: <i>Miner D. Bidania</i> AR, MINER D. BIDANIA ARCHITECT, FDMO	CHECKED BY: <i>Ar. Arlen M. Guieb</i> AR, ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: <i>Cherry L. Fabianes</i> AR, CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: <i>Grace N. Rosete</i> DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: <i>Arnold E. Velasco</i> DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO: A-36 PAGE NO: 36 / 75
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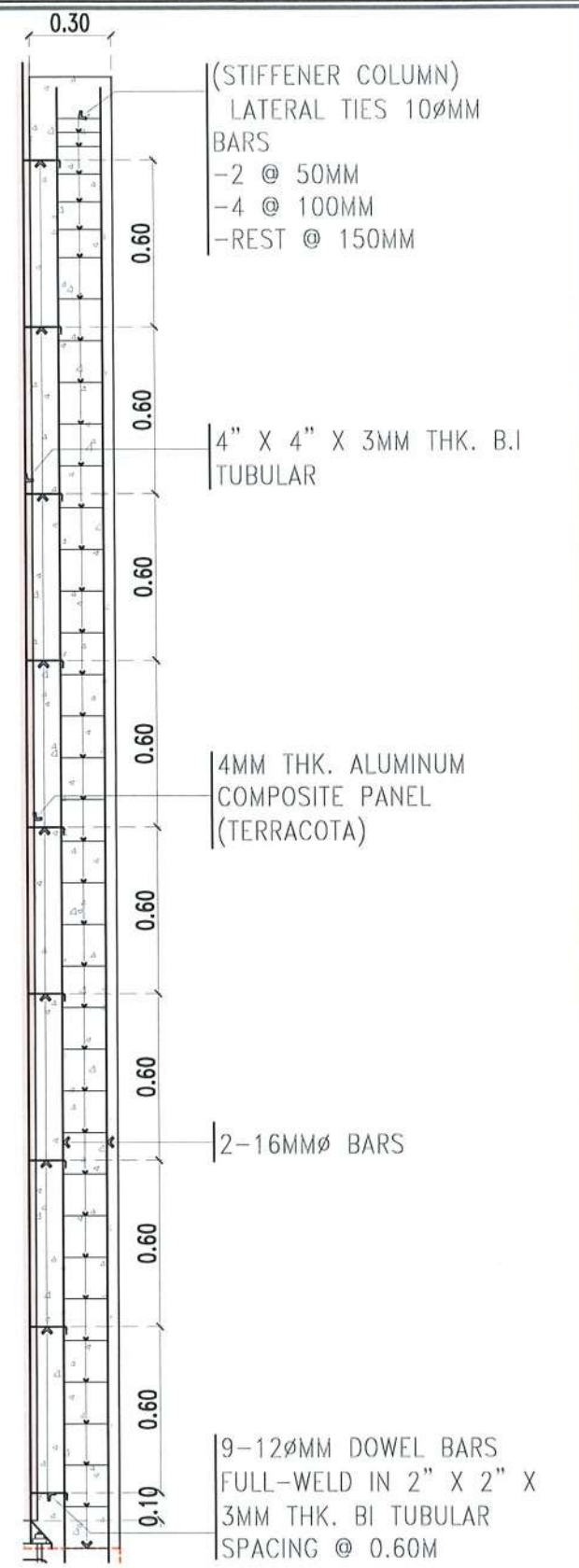


COLUMN FOOTING PLAN
SCALE 1:50 MTS

BASE PLATE DETAIL PLAN
SCALE 1:50 MTS



- 4-16MMØ X 200MM ANCHOR BOLTS W/ NUTS AND WASHER
- 4-12MM THK. STIFFENER PLATE
- 250MM X 250MM X 12MM THK. BASE PLATE
- 4" X 4" X 3MM THK. B.I TUBULAR
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- 1" X 1" X 3MM THK. ANGLE BAR
- 4MM THK. ALUMINUM COMPOSITE PANEL (LIGHT GRAY)



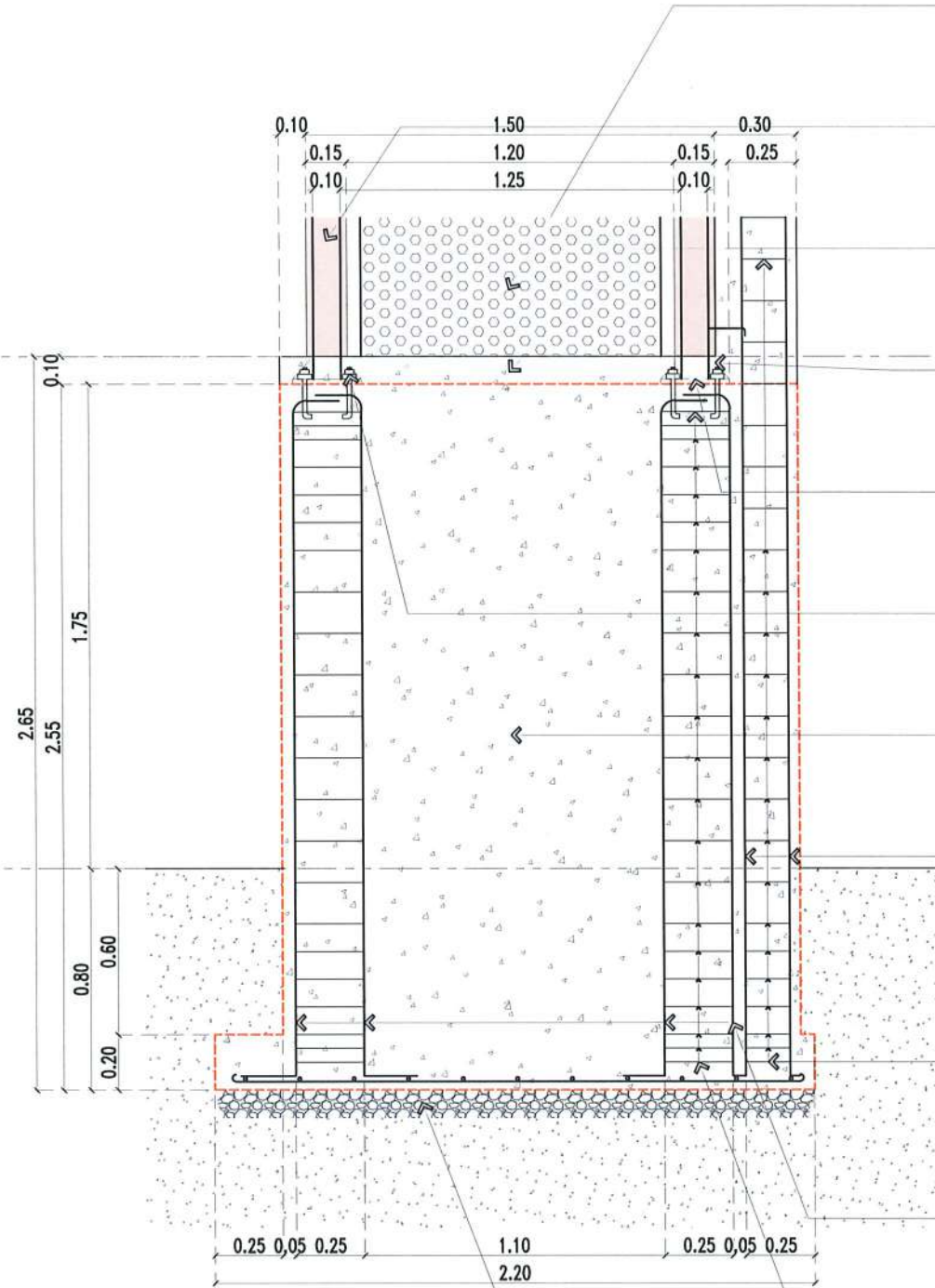
STIFFENER COLUMN BLOW-UP
SCALE 1:25 MTS

BASE PLATE BLOW-UP DETAIL
SCALE 1:5 MTS

<p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:	
	REFURBISHMENT OF TSU AMPHITHEATER		 DR. JASPER JAY N. MENDOZA DEAN, CTED	 AR. MINER D. BIDANIA ARCHITECT, FDMO	 AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	 AR. CHERRY L. FABIANES DIRECTOR, FDMO	 DR. GRACE N. ROSETE VP FOR ADMINISTRATION	 DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A-37
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								DATE: MARCH 2023	PAGE NO: 37 / 75

TOP FFL

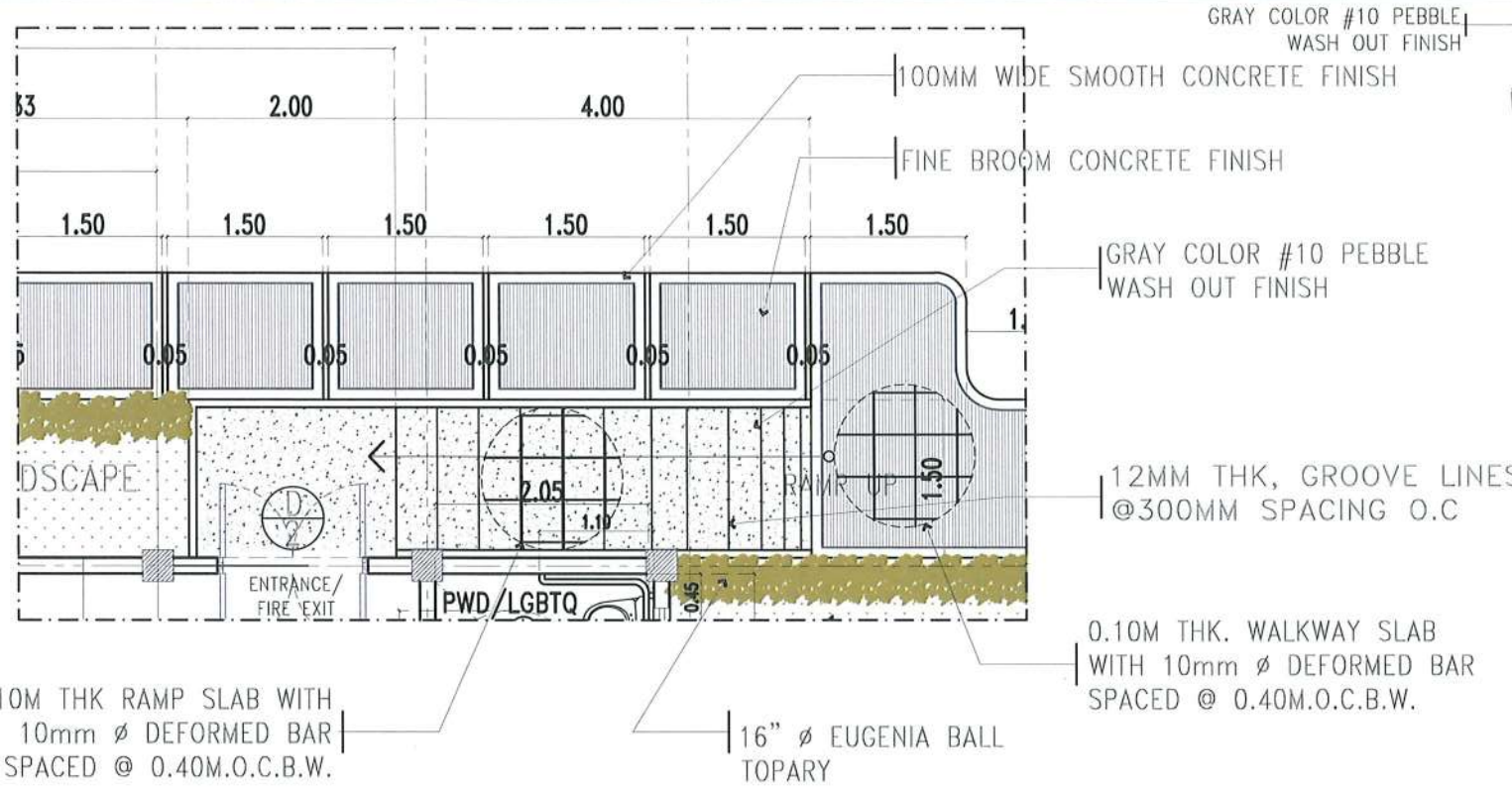
NGL



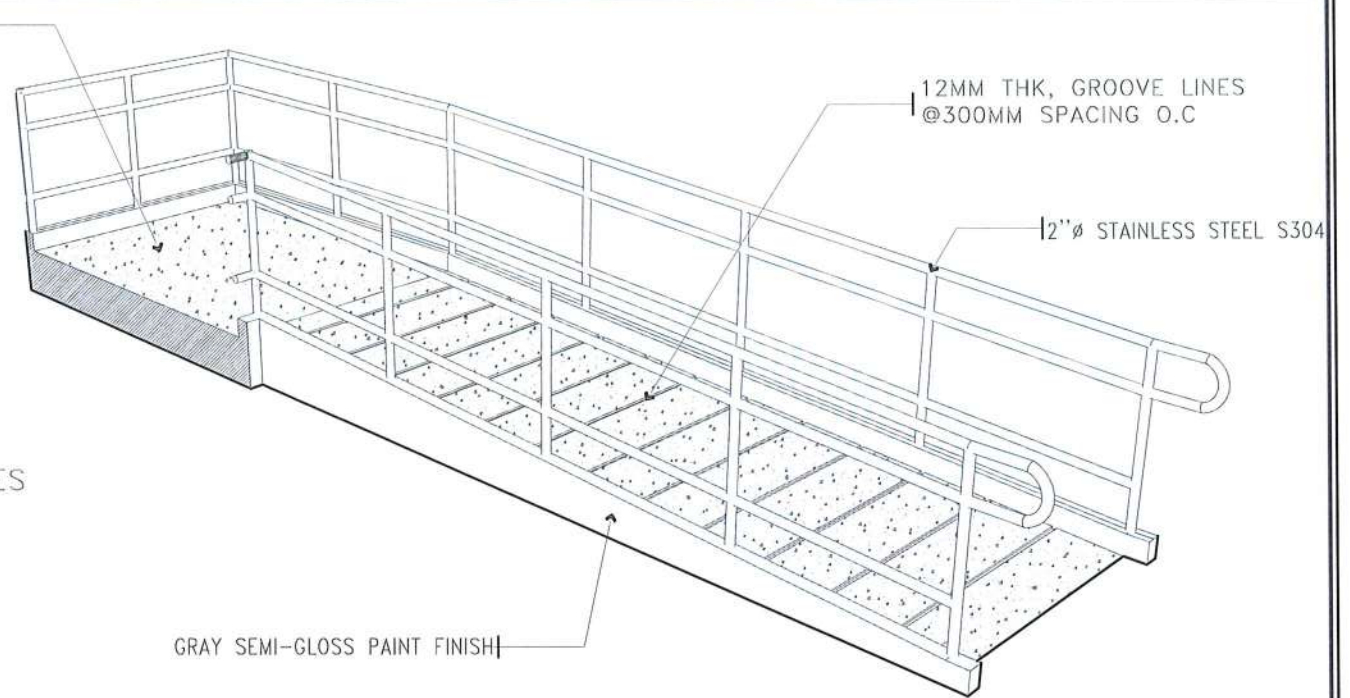
- OFF-WHITE COLOR 2MM THK. GALVANIZED PERFORATED METAL ROUND HOLE STAGGERED SHEET
- 4" X 4" X 3MM THK. B.I TUBULAR
- 100MM THK. CONCRETE SLAB
- 12MM THK. STIFFENER PLATE
- 200MM X 300MM X 12MM THK. BASE PLATE
- 16MMØ X 200MM ANCHOR BOLTS W/ NUTS AND WASHER
- CONCRETE FILL
- 2-12MMØ BARS (STIFFENER COLUMN)
- (STIFFENER COLUMN)
- LATERAL TIES 10ØMM BARS
- 2 @ 50MM
- 4 @ 100MM
- REST @ 150MM
- 12MMØ BARS
- LATERAL TIES
- 2 @ 50MM
- 4 @ 100MM
- REST @ 150MM
- 100MM THK G1 GRAVEL BEDDING

C O L U M N F O O T I N G S E C T I O N
SCALE 1 : 2 5 M T S .

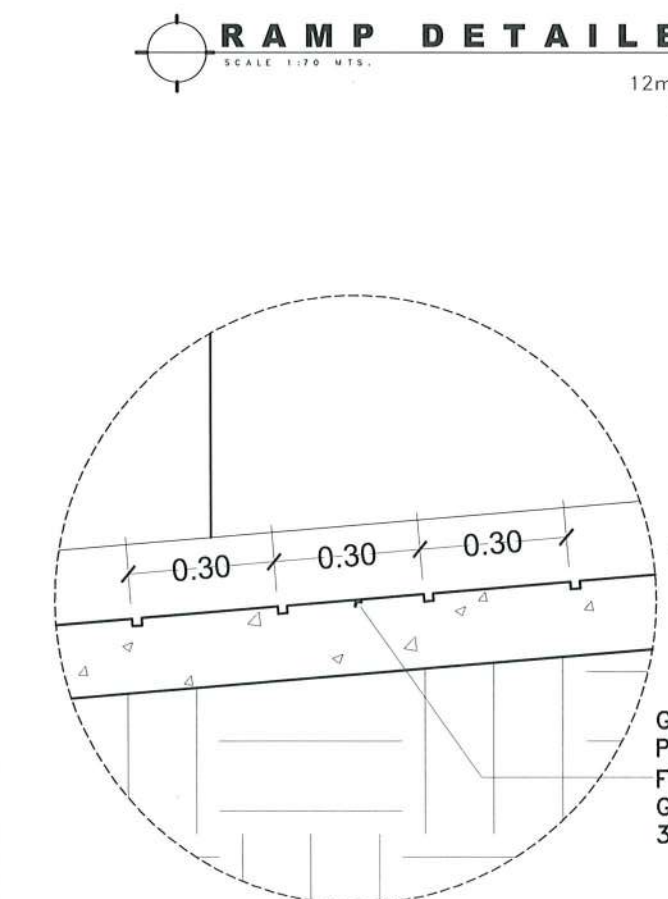
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	REFURBISHMENT OF TSU AMPHITHEATER		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AS SHOWN	A-38
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. MINER D. BIDANIA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACEN. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: MARCH 2023	38 / 75



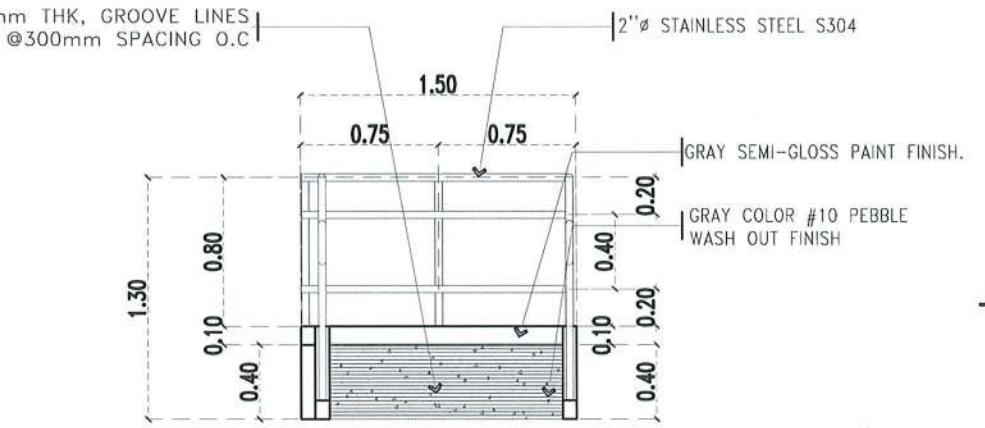
RAMP DETAILED PLAN
SCALE 1:70 MTS.



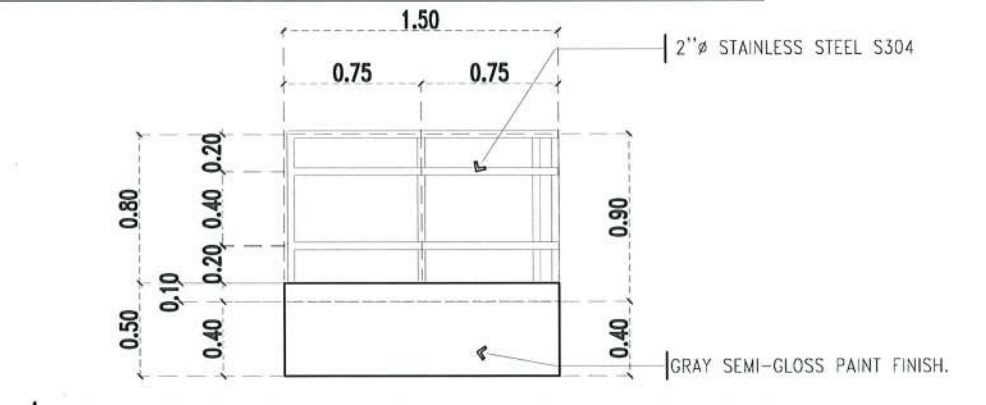
RAMP ISOMETRIC DETAIL



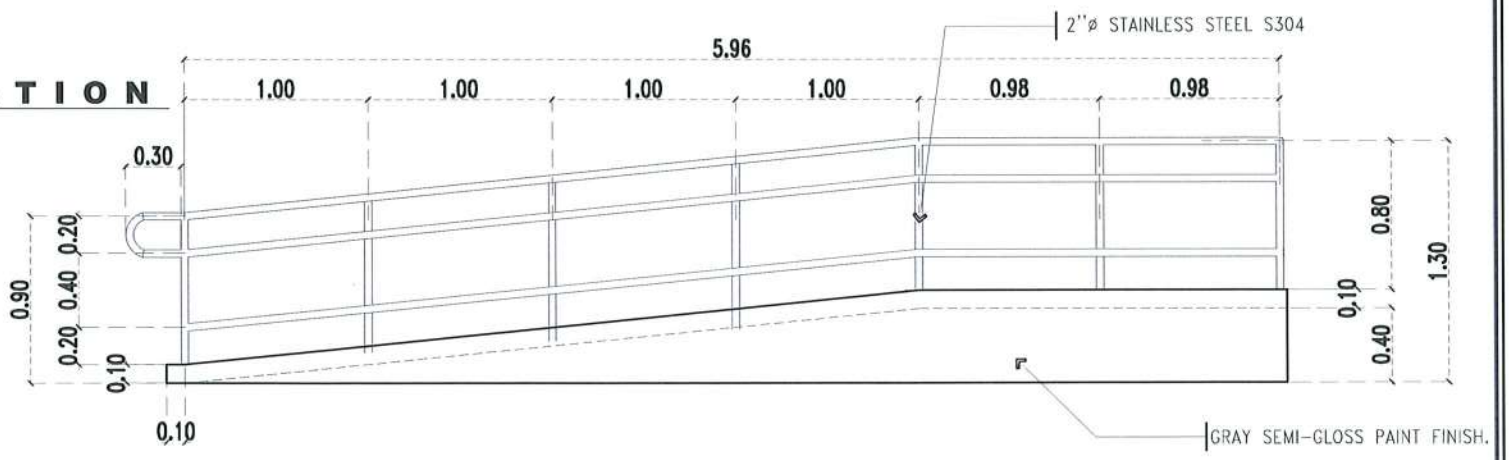
GROOVE BLOW-UP DETAIL
SCALE 1:10 MTS.



RAMP FRONT ELEVATION
SCALE 1:40 MTS.



RAMP REAR ELEVATION
SCALE 1:40 MTS.

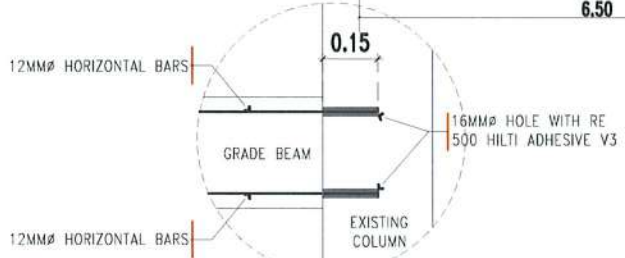
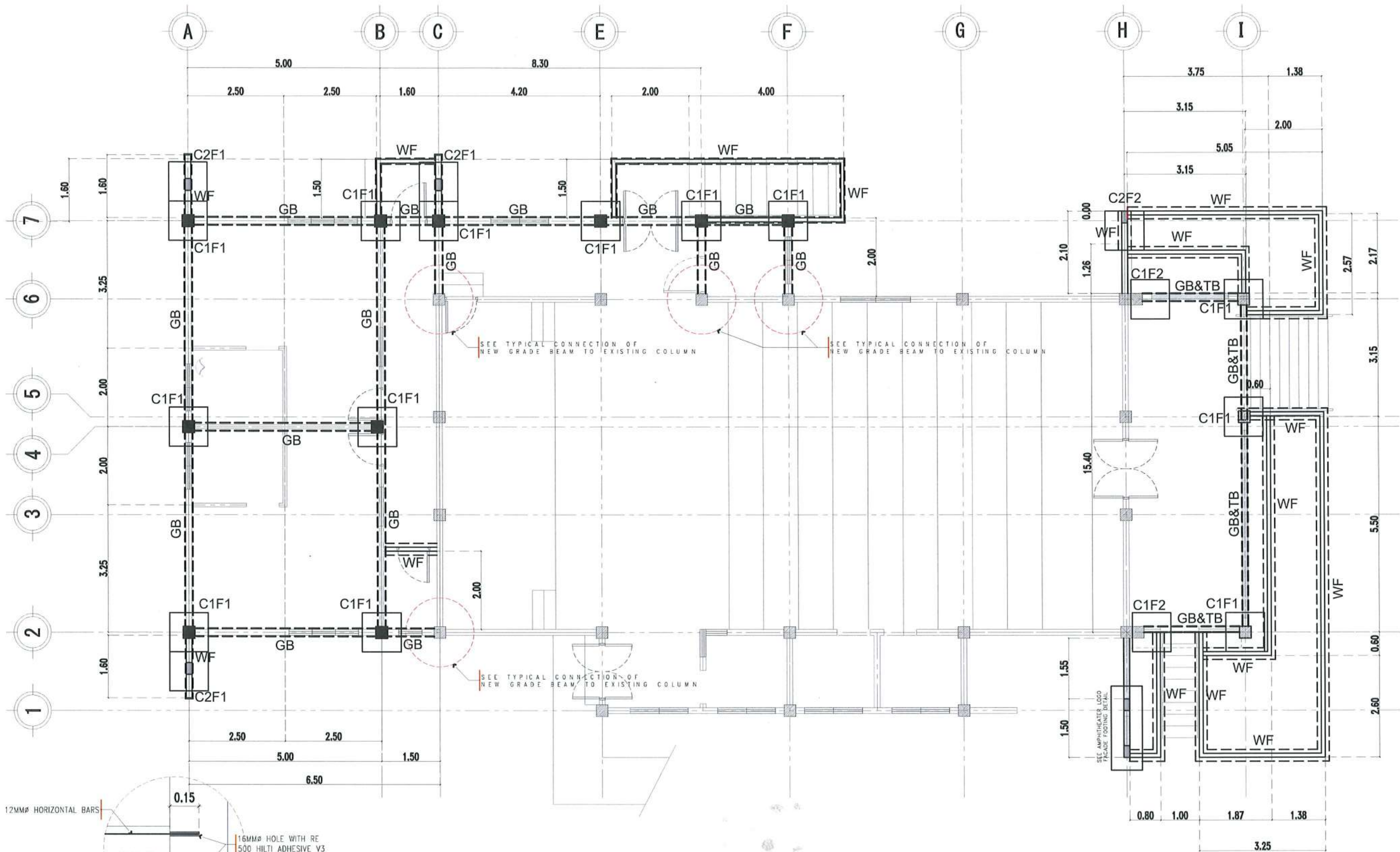


RAMP RIGHT-SIDE ELEVATION
SCALE 1:40 MTS.



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PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: A-40 PAGE NO.: 40/75
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	



FOUNDATION PLAN

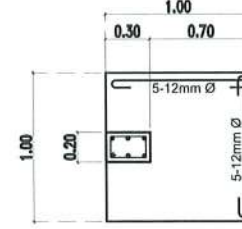
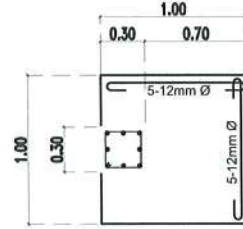
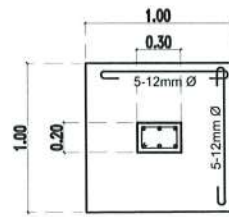
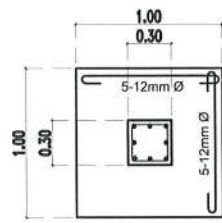
SCALE 1:100 MTS.

TYPICAL CONNECTION OF NEW GRADE BEAM TO EXISTING COLUMN
SCALE 1:120 MTS.

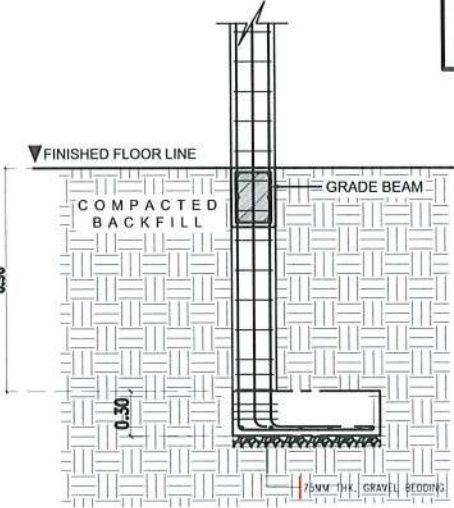
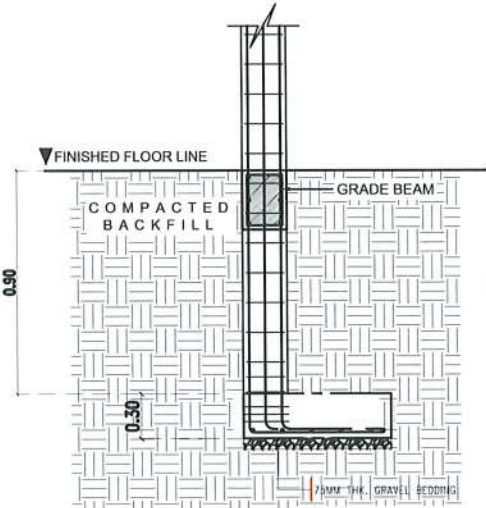
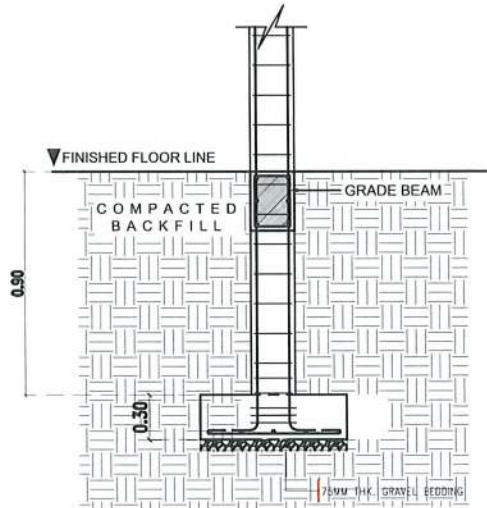
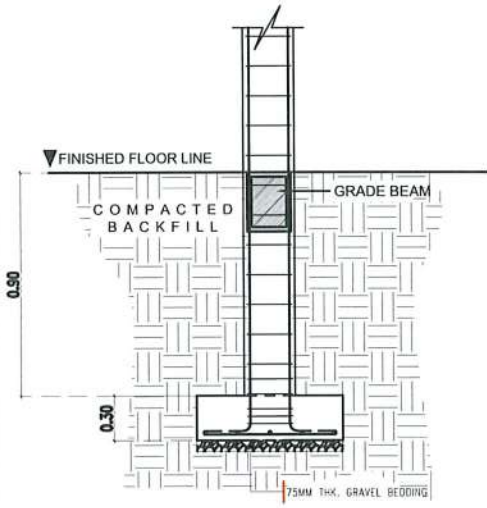


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PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: S- 01
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SCHEDULE OF COLUMN				
MARK	DIMENSION (mm)		VERTICAL BARS	HORIZONTAL BAR TIES
	C	D		
C1	1.00	0.30	4-12MMØ & 4-10MMØ	10MM Ø 2 - 0.05, 5 - 0.10, REST @ 0.20
C2	1.00	0.70	4-10MM Ø	10MM Ø 2 - 0.05, 5 - 0.10, REST @ 0.20

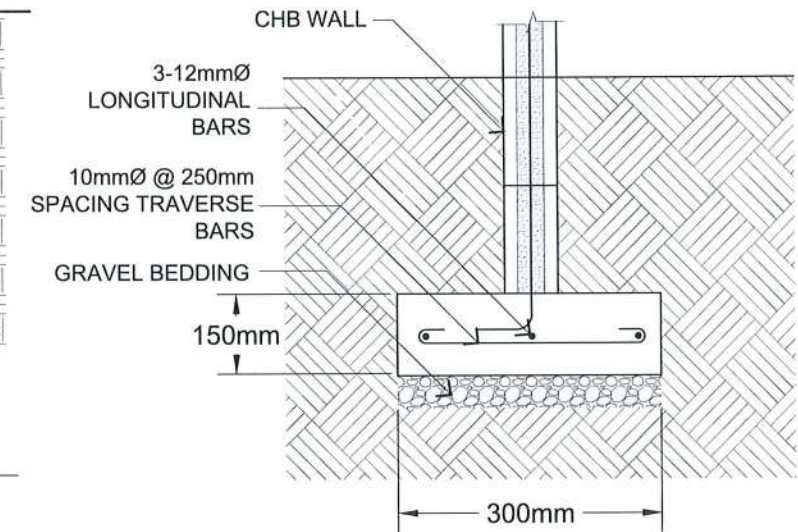


C1-F1 DETAIL
SCALE 1:50 MTS.

C2-F1 DETAIL
SCALE 1:50 MTS.

C1-F2 DETAIL
SCALE 1:50 MTS.

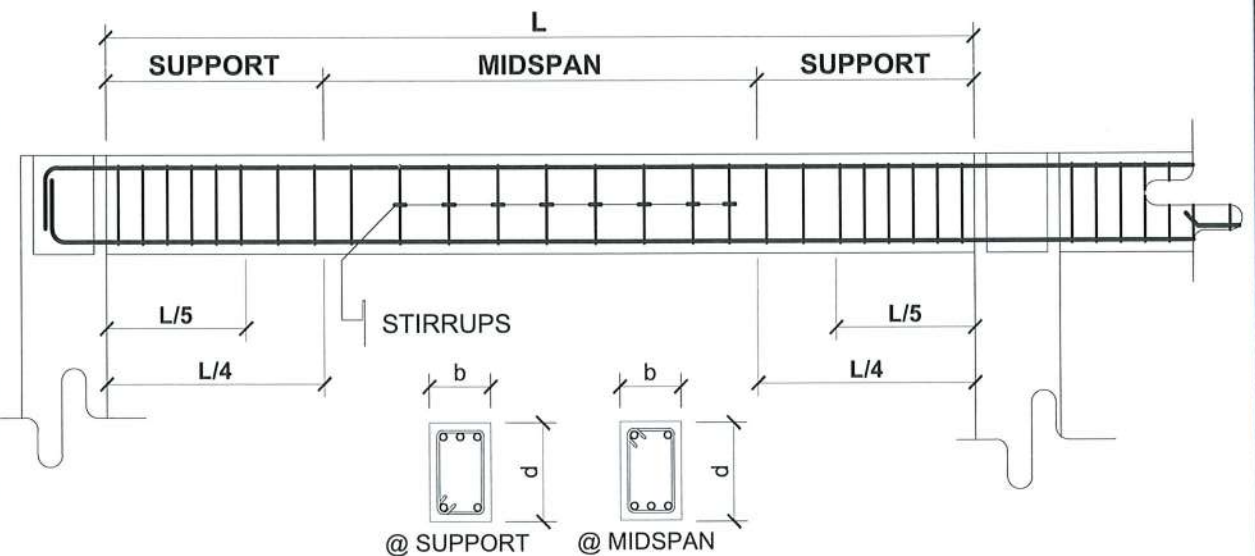
C2-F2 DETAIL
SCALE 1:50 MTS.



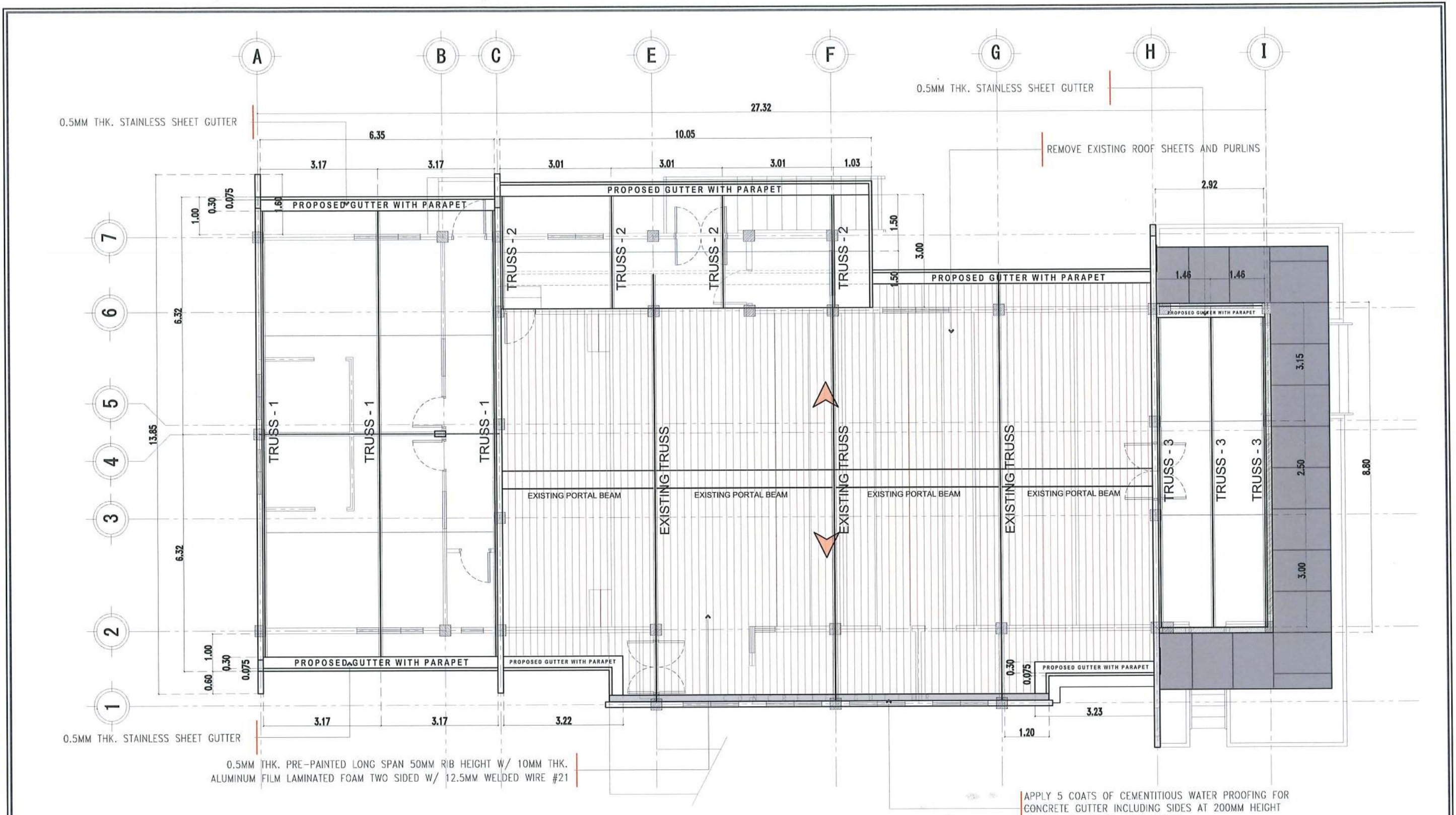
WALL FOOTING DETAIL

COLUMNS AND FOOTING DETAILS

SCHEDULE OF BEAMS							
MARK	DIMENSION (mm)		AT SUPPORT		AT MIDSPAN		SPACING OF STIRRUPS (mm)
	b	d	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS	
GB	200	300	2-12mm Ø	2-12mm Ø	2-12mm Ø	2-12mm Ø	2 @ 50, 8 @ 100, rest @ 200 to ϵ
TB	200	300	2-12mm Ø	2-12mm Ø	2-12mm Ø	2-12mm Ø	2 @ 50, 8 @ 100, rest @ 200 to ϵ
RB	200	350	3-12mm Ø	3-12mm Ø	3-12mm Ø	3-12mm Ø	2 @ 50, 10 @ 100, rest @ 200 to ϵ



TYPICAL BEAM DETAIL
SCALE 1:35 mts.

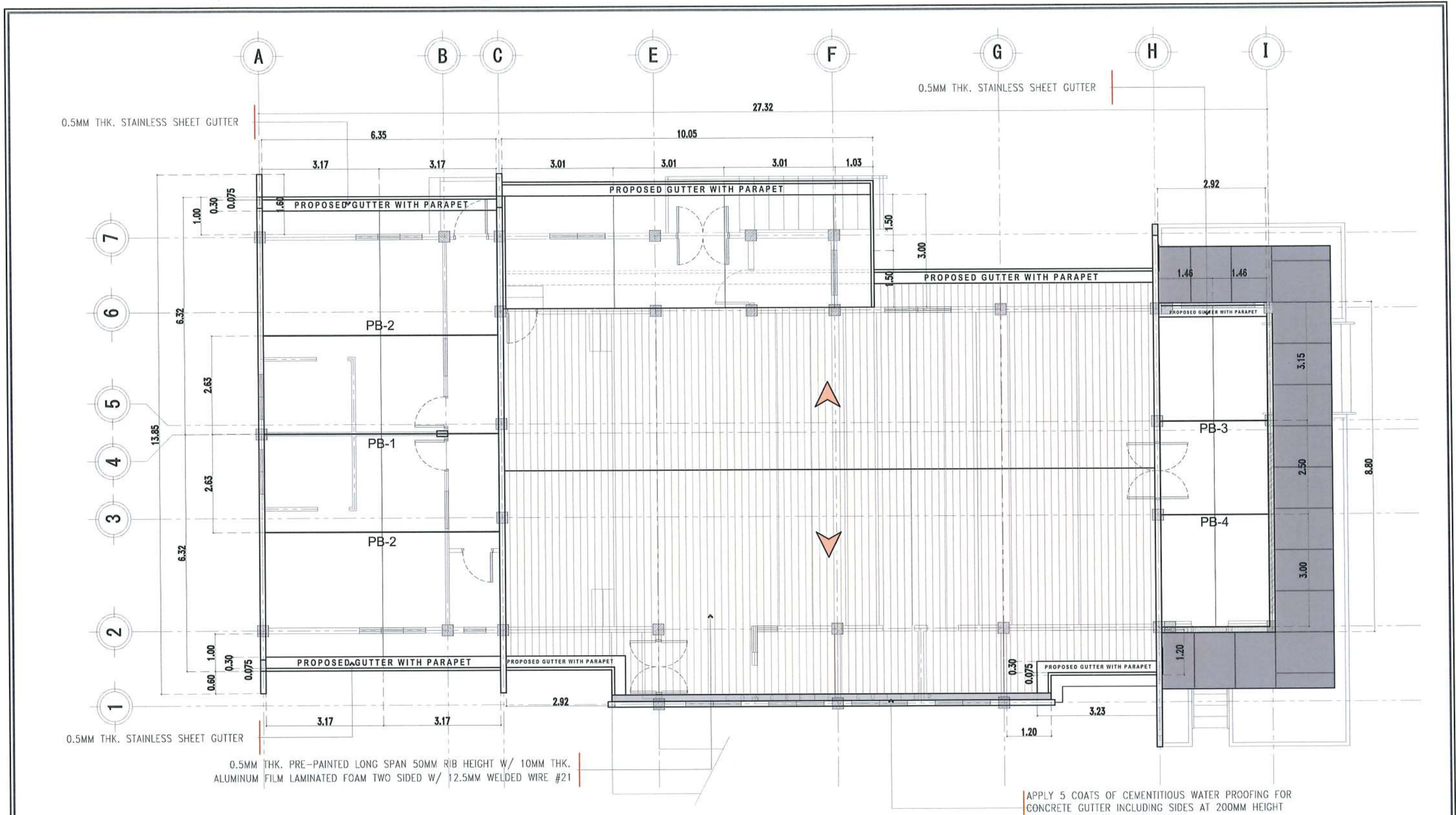


NOTE: -REMOVE EXISTING ROOF SHEETS AND PURLINS
 -RETAIN EXISTING TRUSS AND PORTAL BEAM
 -REPAINT EXISTING TRUSS AND PORTAL BEAM WITH GREY OXIDE PRIMER

ROOF TRUSS LAYOUT

SCALE 1:100 MTS.

 TARLAC STATE UNIVERSITY <small>Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</small>	PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	PREPARED BY: AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	CHECKED BY: AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	CERTIFIED BY: AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	RECOMMENDING APPROVAL: DR. GRACEN N. ROSETE <small>VP FOR ADMINISTRATION</small>	APPROVED: DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	SHEET CONTENTS: AS SHOWN	SHEET NO.: S- 04
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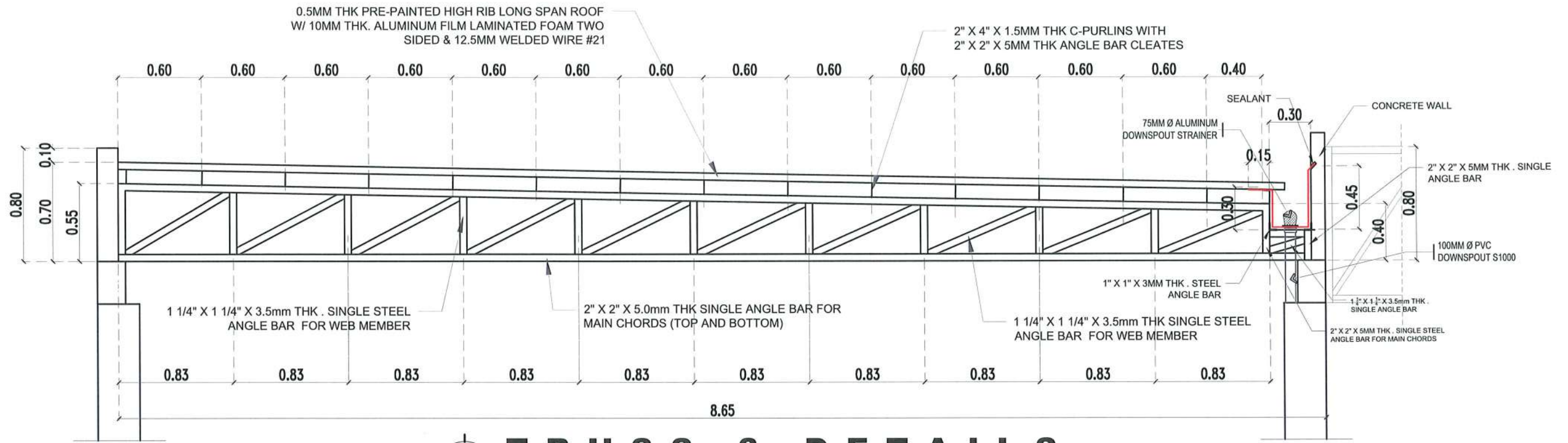


PORTAL BEAM LAYOUT
SCALE 1:100 MTS.

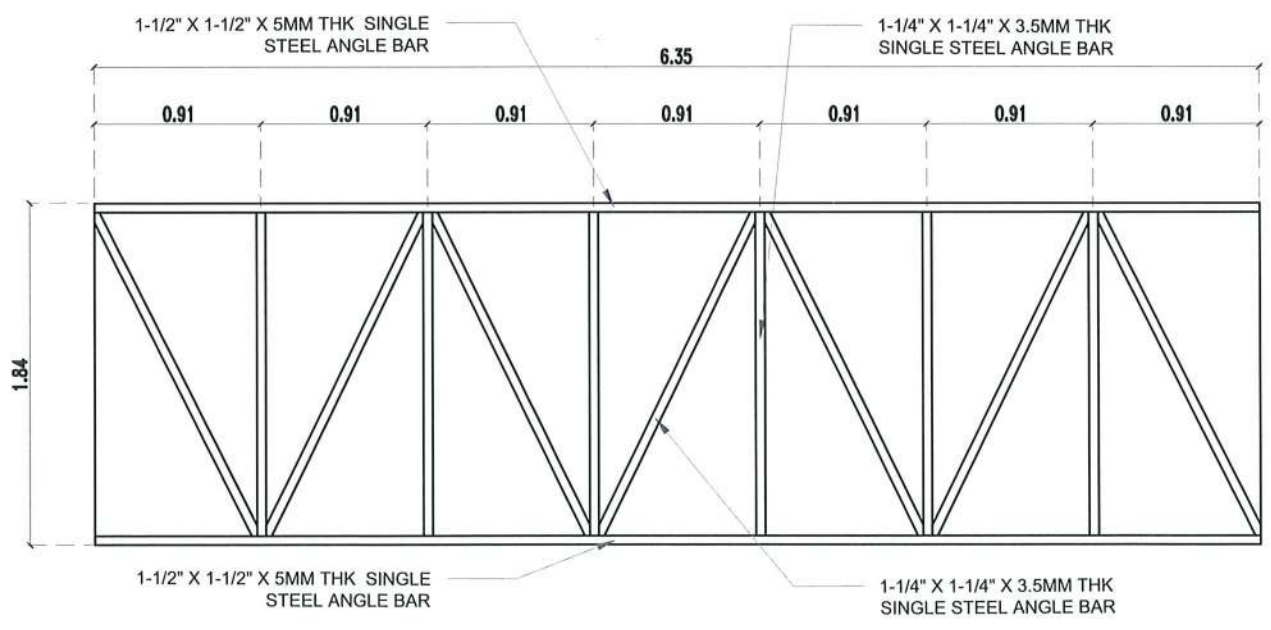


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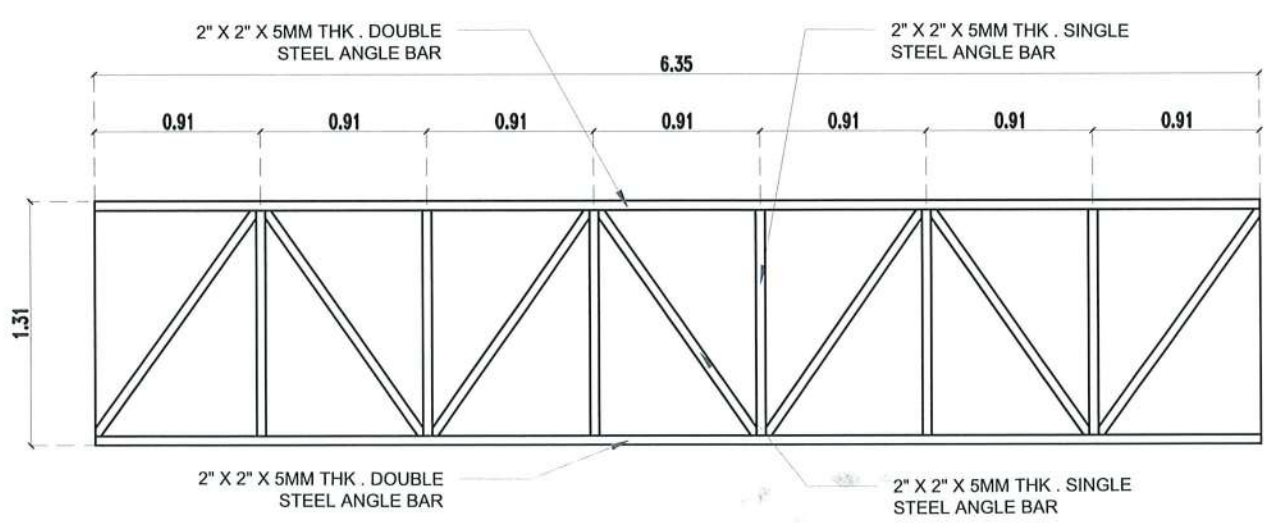
PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACIE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO: S- 05 PAGE NO: 46 / 75
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TRUSS - 3 DETAILS
SCALE 1:35 MTS.



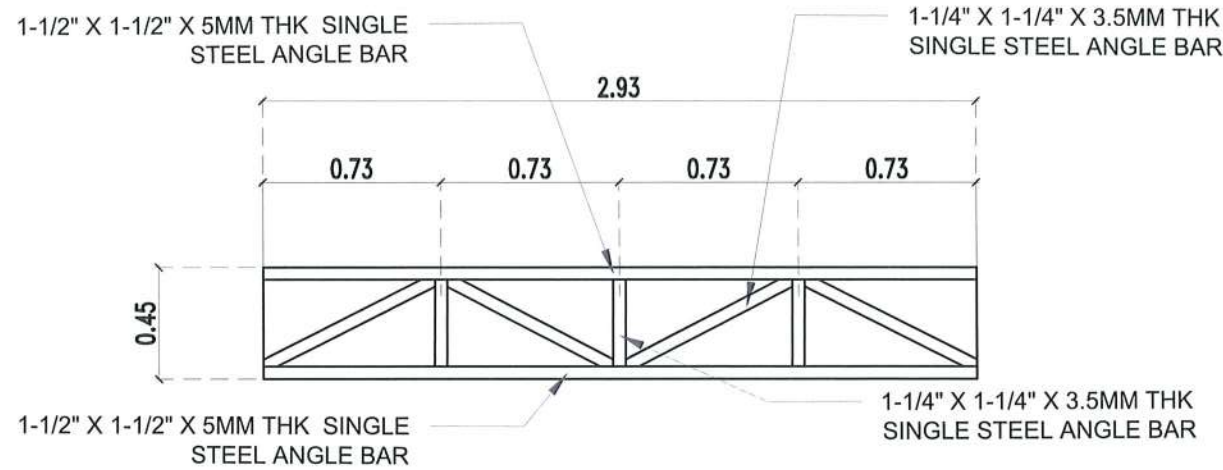
PORTAL BEAM 1
SCALE 1:40 MTS.



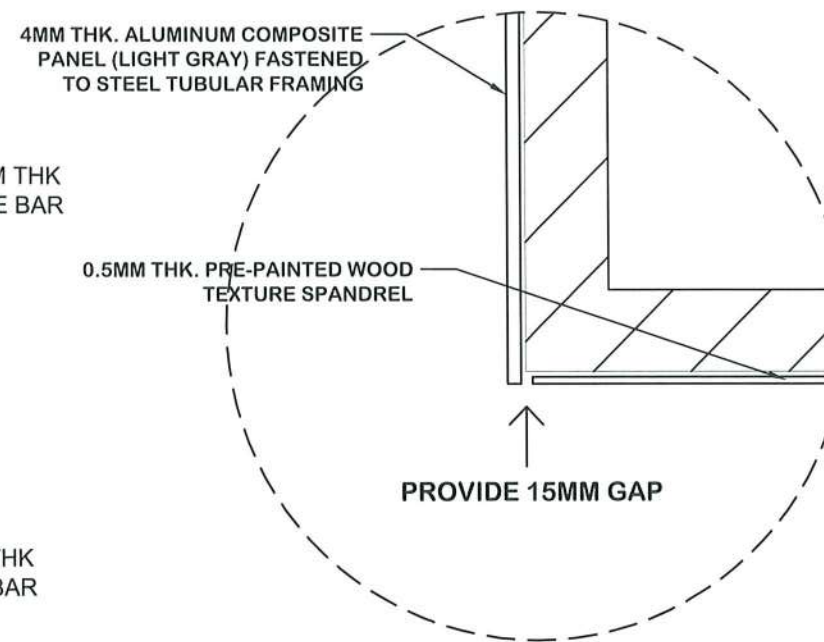
PORTAL BEAM 2
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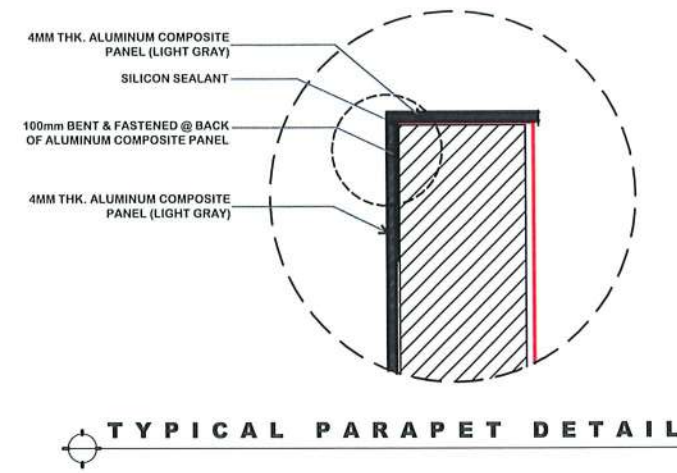
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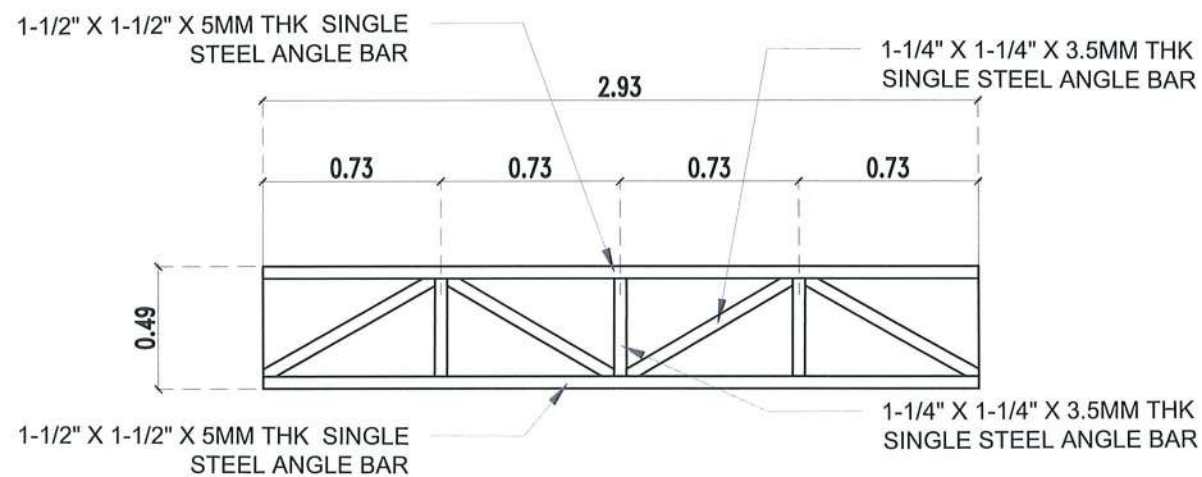
PORTAL BEAM 3
SCALE 1:30 MTS.



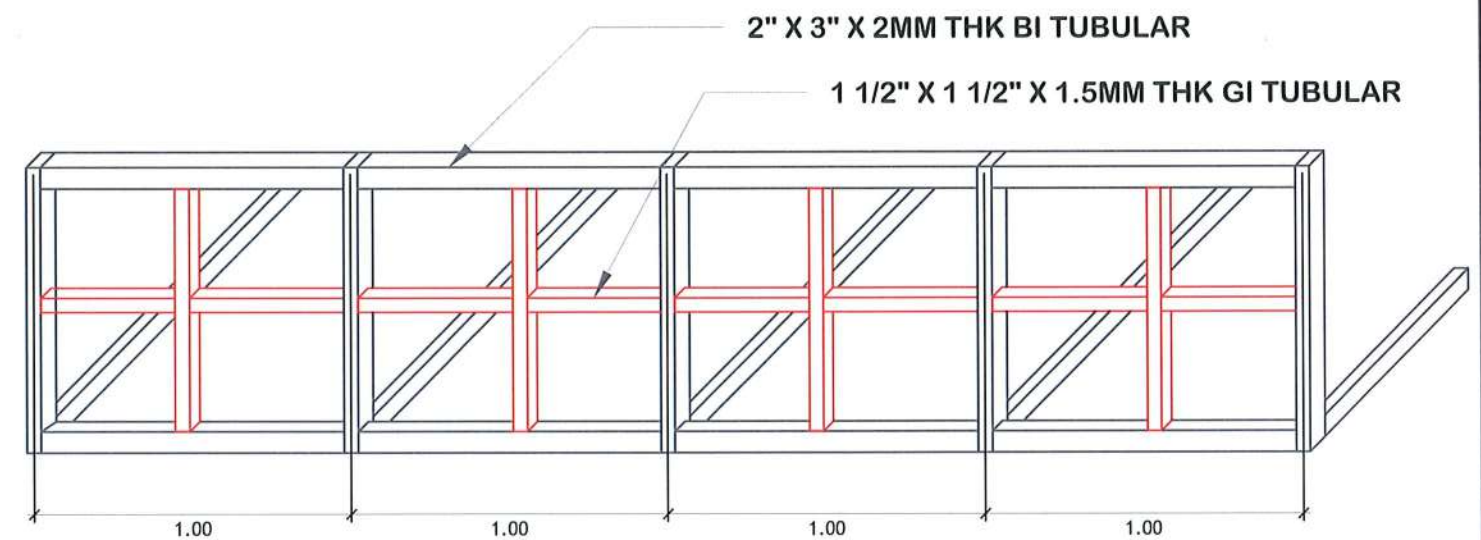
TYPICAL PARAPET DETAIL



TYPICAL PARAPET DETAIL



PORTAL BEAM 4
SCALE 1:30 MTS.



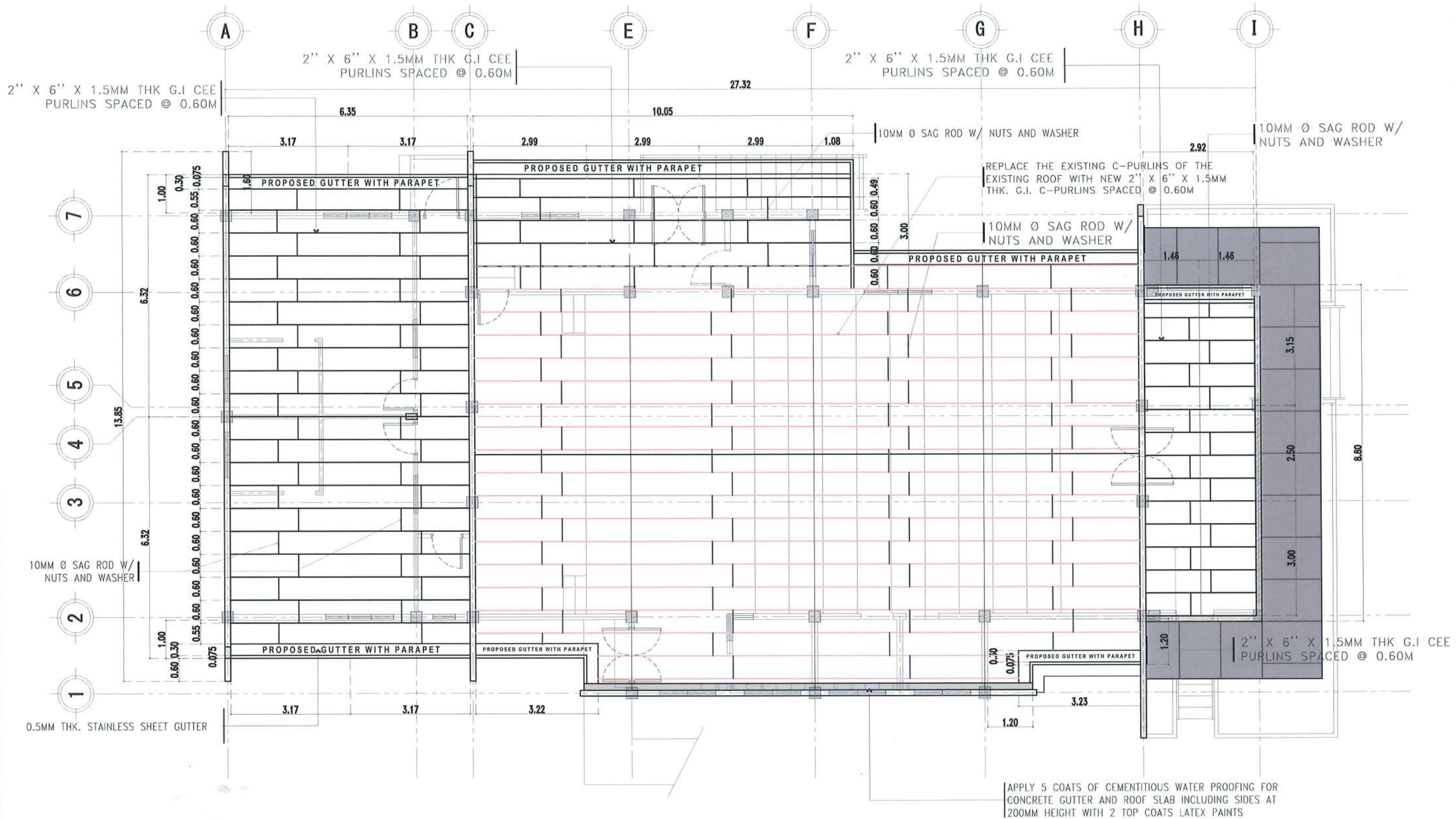
ISOMETRIC VIEW STEEL PARAPET

TYPICAL PARAPET DETAIL



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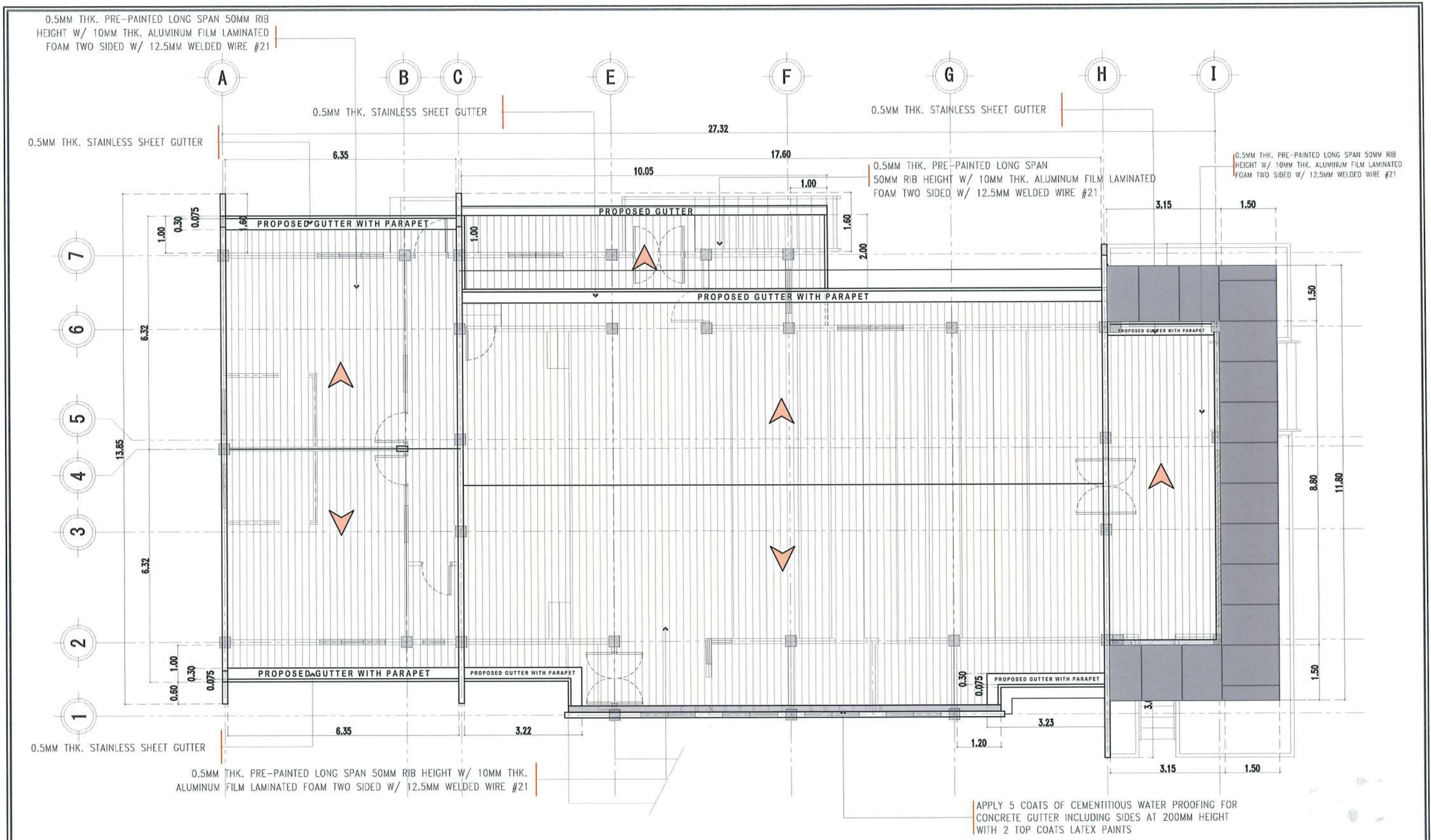
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REFURBISHMENT OF TSU AMPHITHEATER							AS SHOWN	S- 08
PROJECT LOCATION:	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FOMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FOMO	AR. CHERRY L. FABIANES DIRECTOR, FOMO	DR. GBACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: MARCH 2023	PAGE NO: 49 / 75



ROOF PURLINS LAYOUT

SCALE 1:100 MTS.

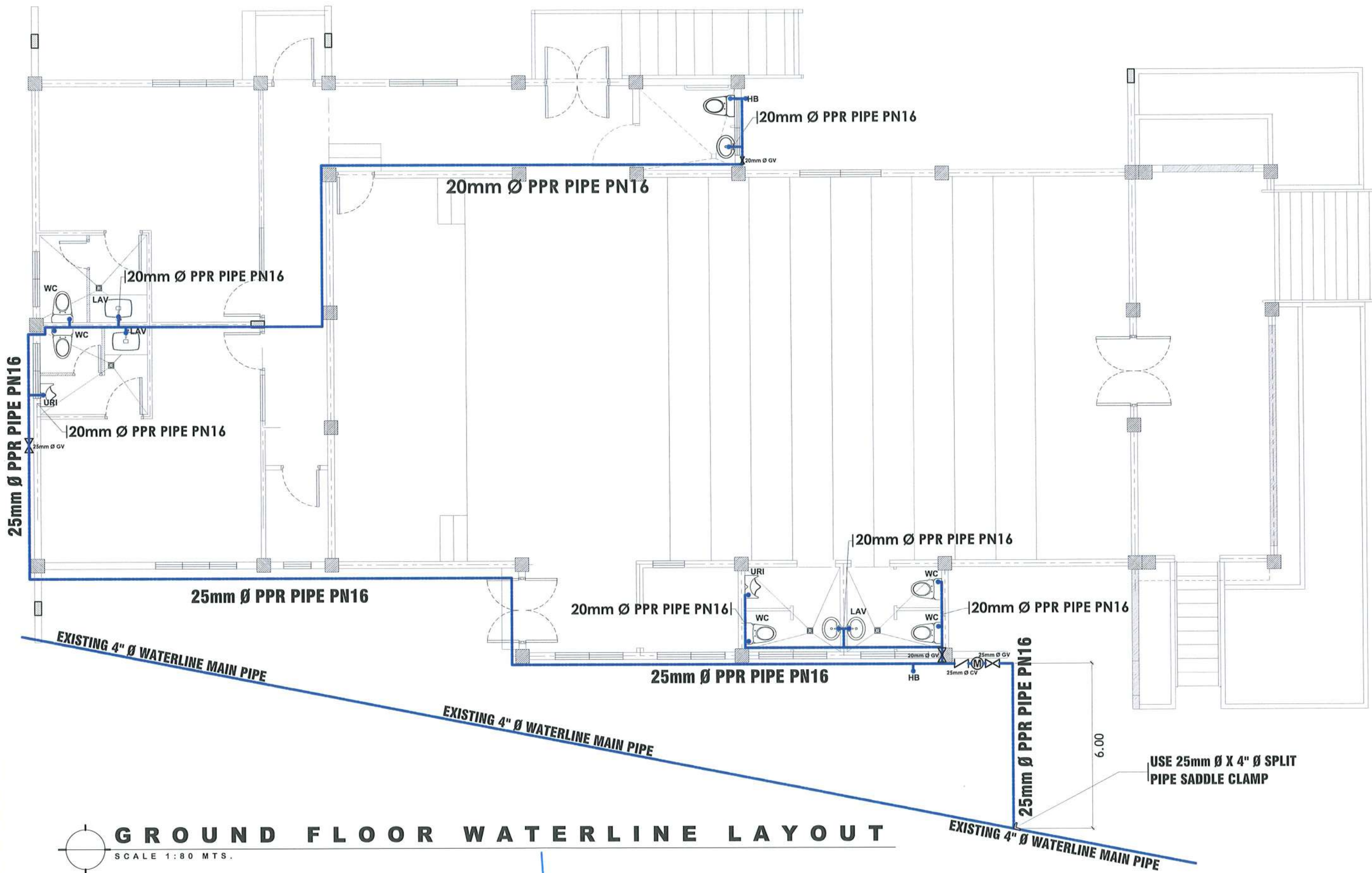
	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	PREPARED BY: AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	CHECKED BY: AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	CERTIFIED BY: AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	APPROVED: DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	SHEET CONTENTS: AS SHOWN	SHEET NO.: S- 09		
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ROOFING LAYOUT

SCALE 1:100 MTS.

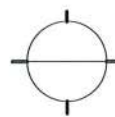
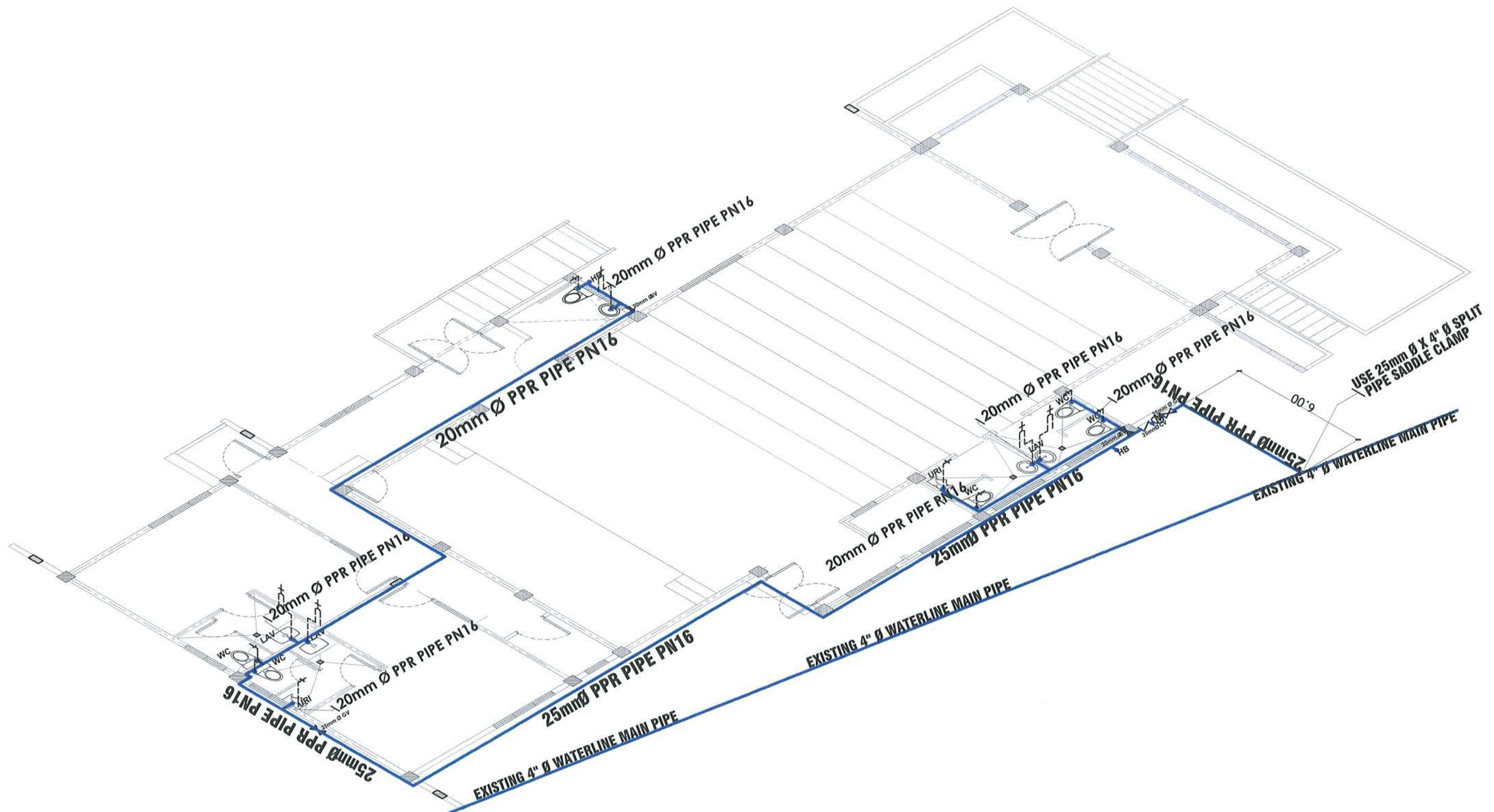
 TARLAC STATE UNIVERSITY Facilities Development and Management Office <small>Romulo Boulevard, Tarlac City, Philippines 2300</small>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	DR. GRACON. ROSETE <small>VP FOR ADMINISTRATION</small>	DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	AS SHOWN	S- 10
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GROUND FLOOR WATERLINE LAYOUT

SCALE 1:80 MTS.

 TARLAC STATE UNIVERSITY <small>Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</small>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:	
	REFURBISHMENT OF TSU AMPHITHEATER	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA <small>DE.W. CTED</small>	AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	AS SHOWN	P-01
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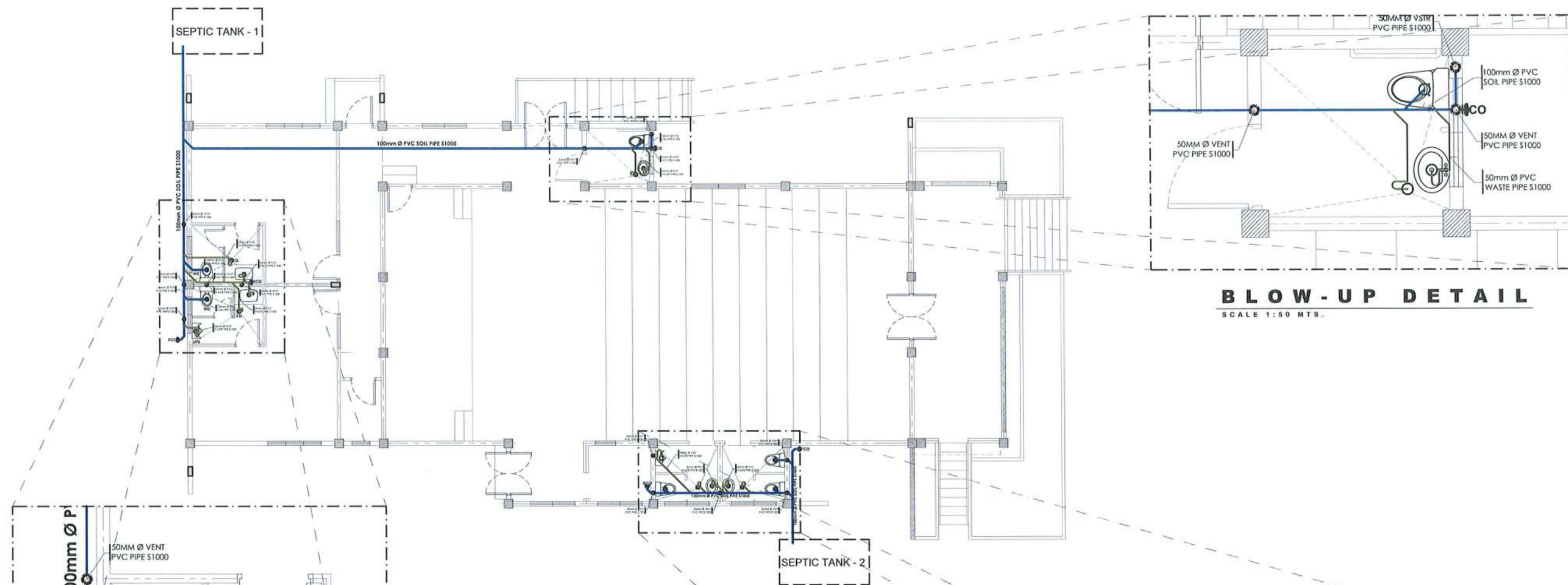
GROUND FLOOR ISOMETRIC WATERLINE LAYOUT

SCALE 1:85 MTS.

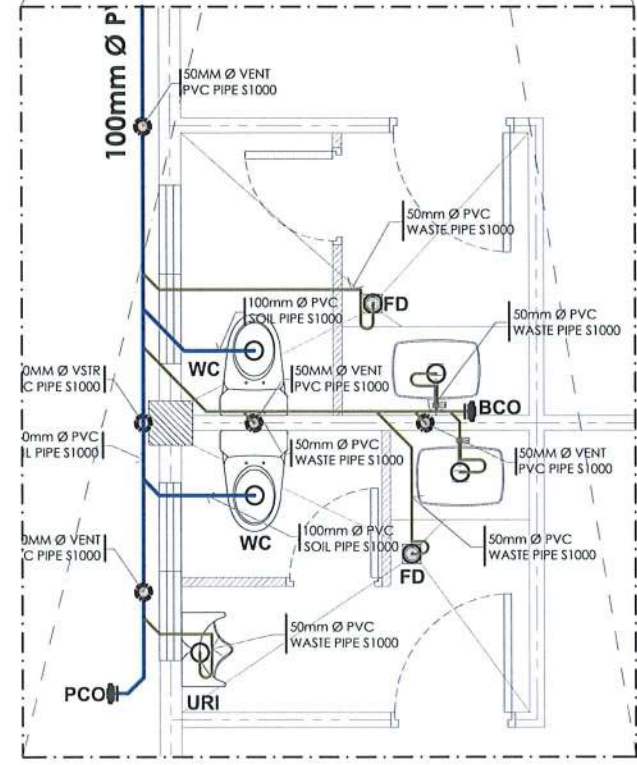


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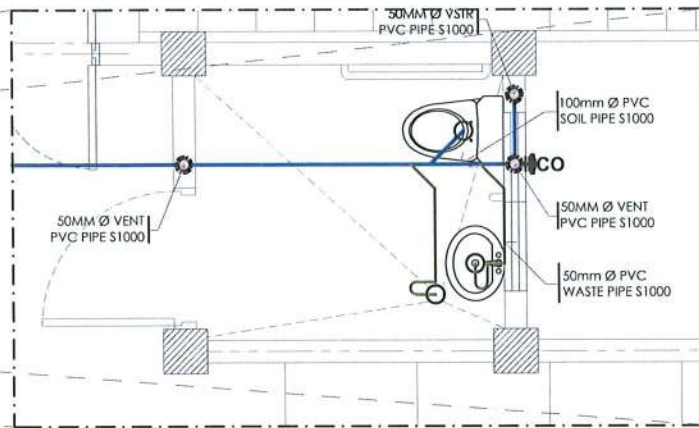
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PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY						DATE: MARCH 2023	PAGE NO: 53 / 75



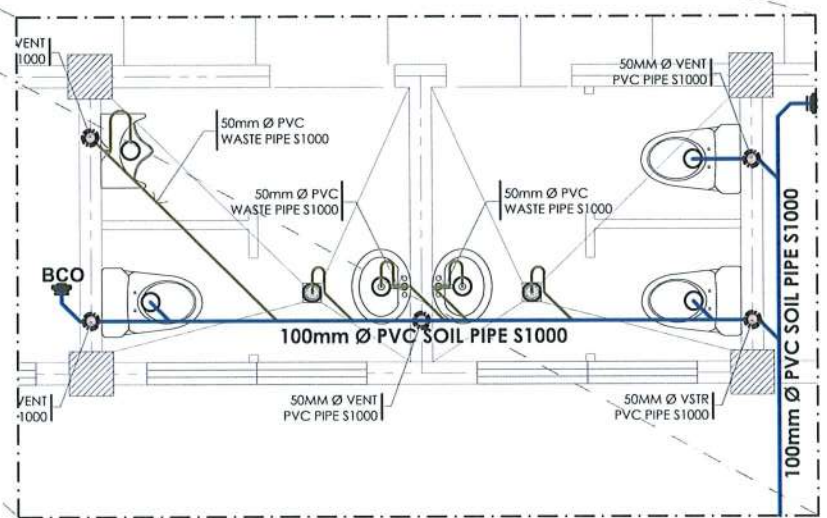
GROUND FLOOR SANITARY LINE LAYOUT
SCALE 1:150 MTS.




BLOW-UP DETAIL
SCALE 1:50 MTS.

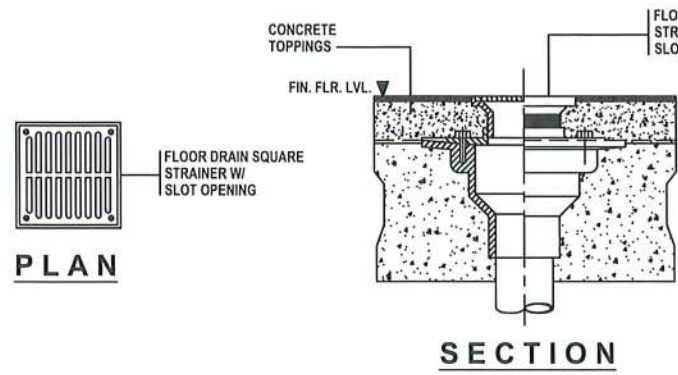


BLOW-UP DETAIL
SCALE 1:50 MTS.



BLOW-UP DETAIL
SCALE 1:50 MTS.

 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER		AR. ULYSSES B. CALUYA	AR. ARLEN M. GUIEB	AR. CHERRY L. FABIANES	DR. GRACIE N. ROSETE	DR. ARNOLD E. VELASCO	AS SHOWN	P- 03
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA	ARCHITECT, FDMO	PLANNING UNIT HEAD, FDMO	DIRECTOR, FDMO	VP FOR ADMINISTRATION	PRESIDENT	DATE: MARCH 2023	PAGE NO: 54 / 75

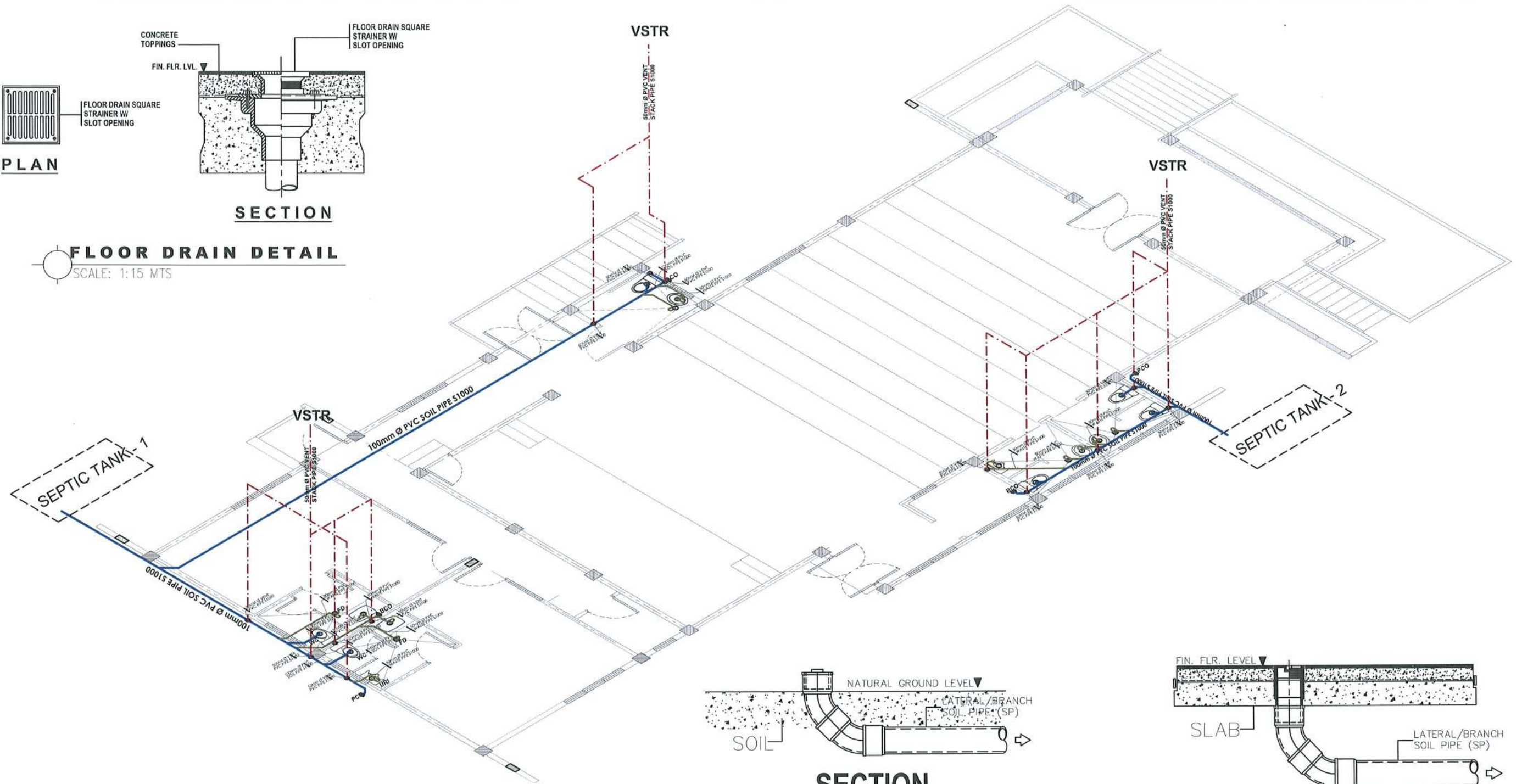


PLAN

SECTION

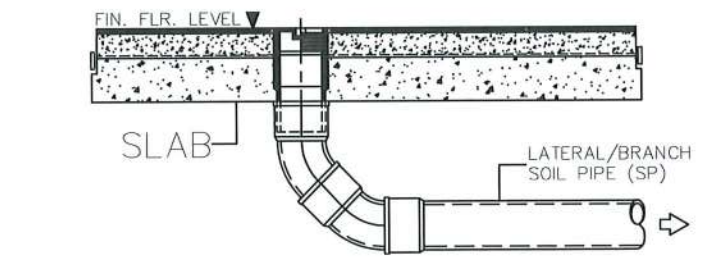
FLOOR DRAIN DETAIL

SCALE: 1:15 MTS



SECTION

PVC CLEANOUT DETAIL



SECTION

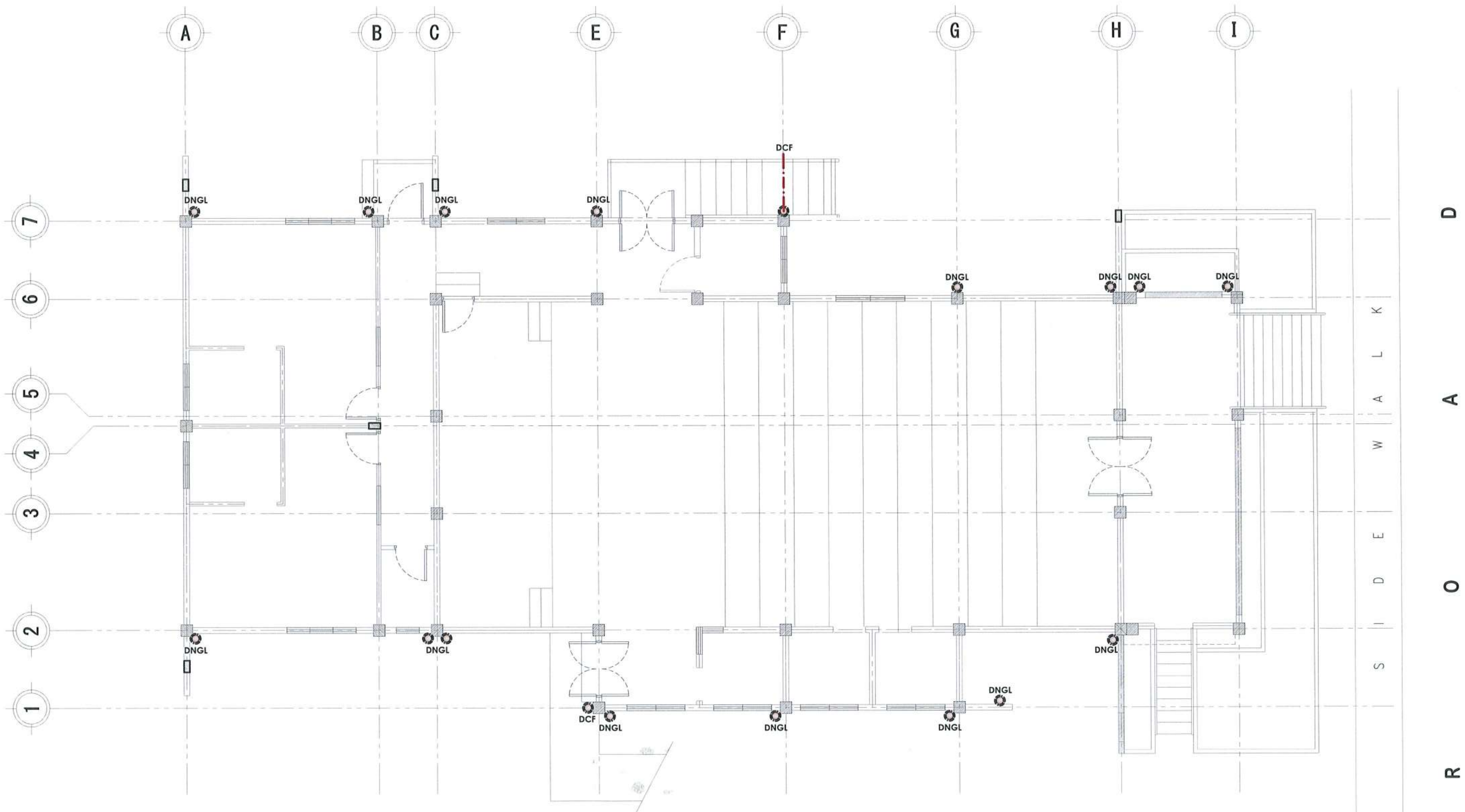
BRASS CLEANOUT DETAIL

GROUND FLOOR ISOMETRIC SANITARY LINE LAYOUT
SCALE 1:90 MTS.



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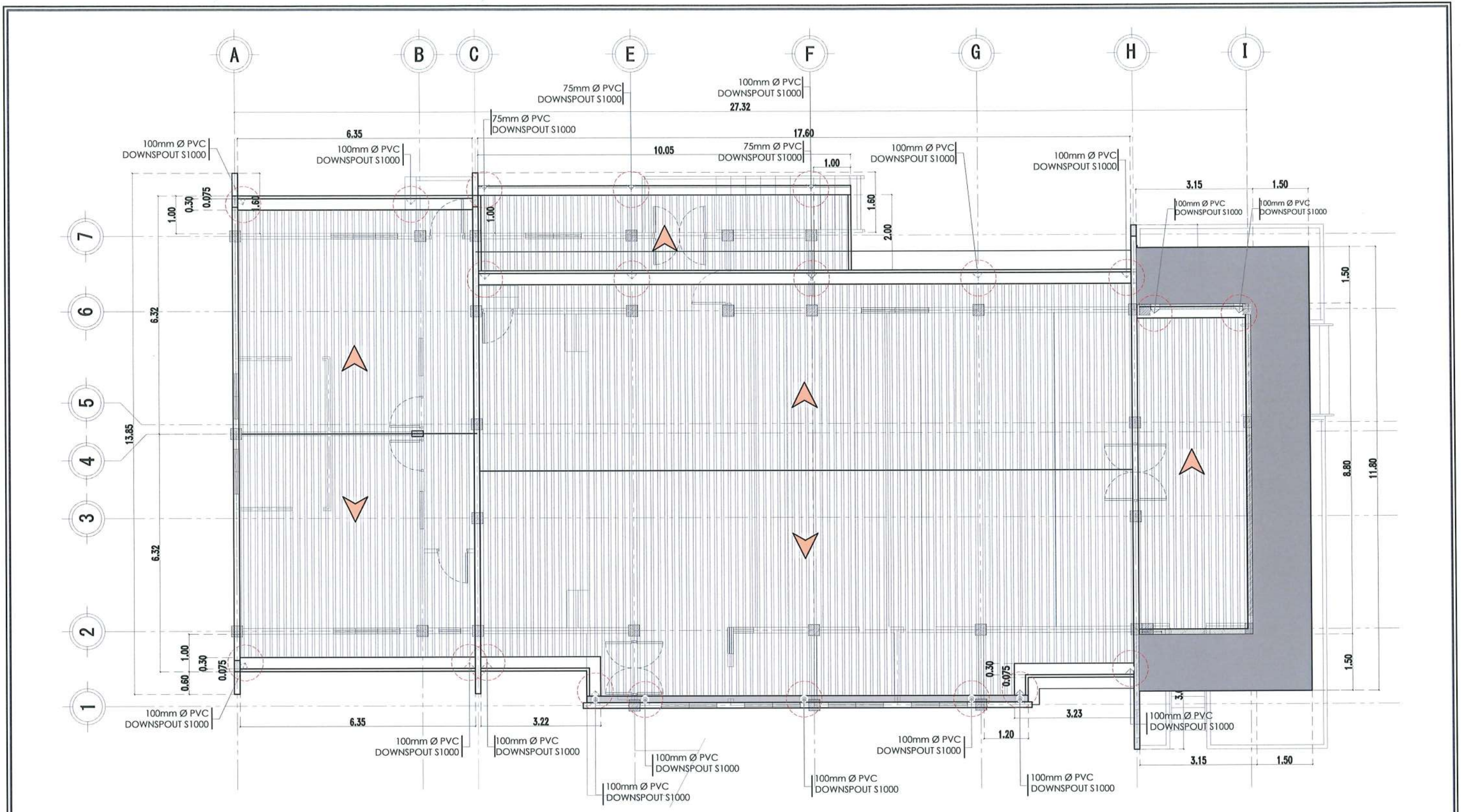
PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: P-04
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GROUND FLOOR STORM DRAIN LAYOUT
 SCALE 1:100 MTS.

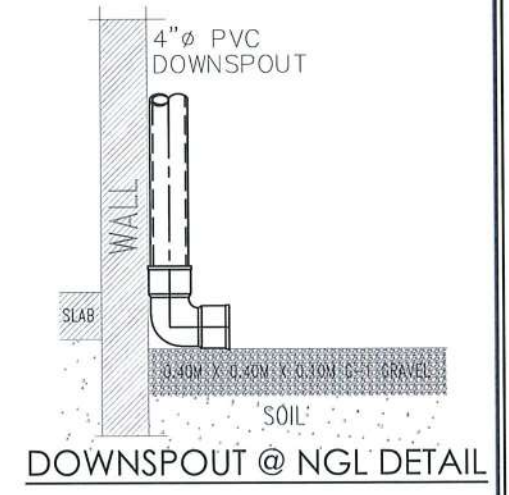
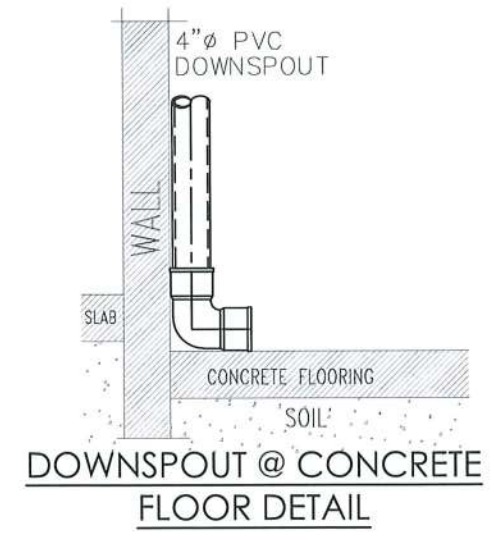
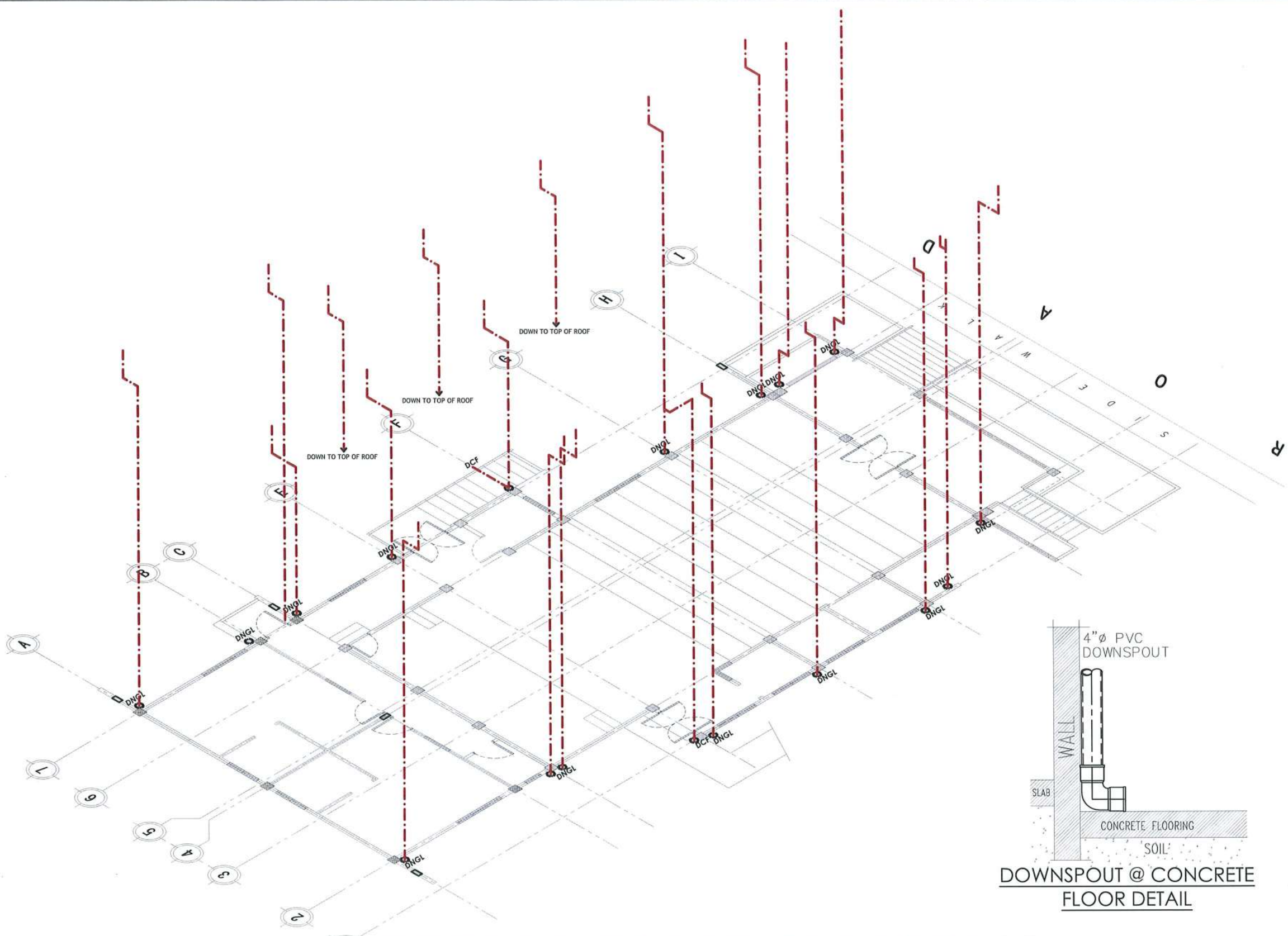


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GROUND FLOOR DOWNSPOUT LAYOUT
 SCALE 1:100 MTS.

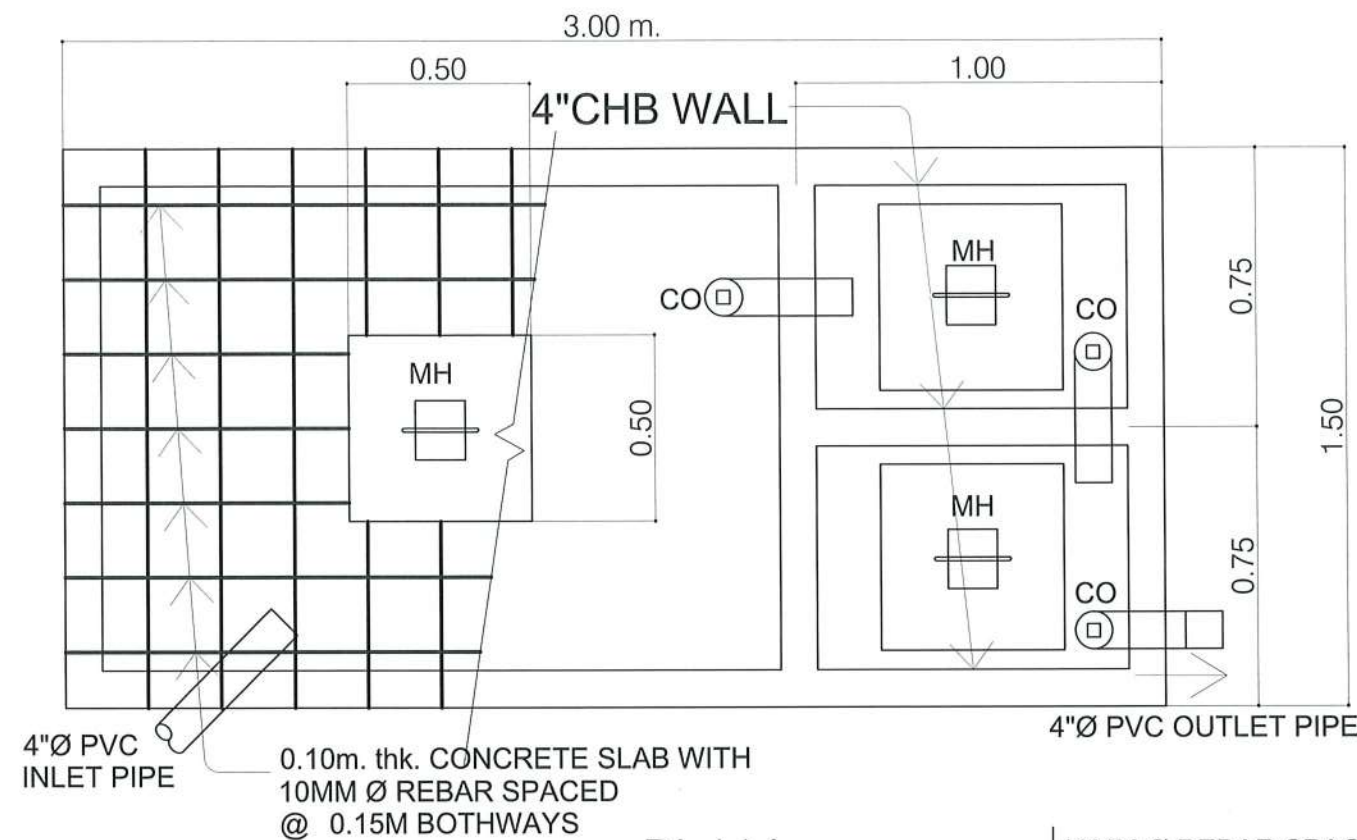
 TARLAC STATE UNIVERSITY <small>Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</small>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	 DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	 AR. ULYSSES B. CALUYA <small>ARCHITECT, EDMO</small>	 AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	 AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	 DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	 DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	AS SHOWN	P- 06
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	57 / 75



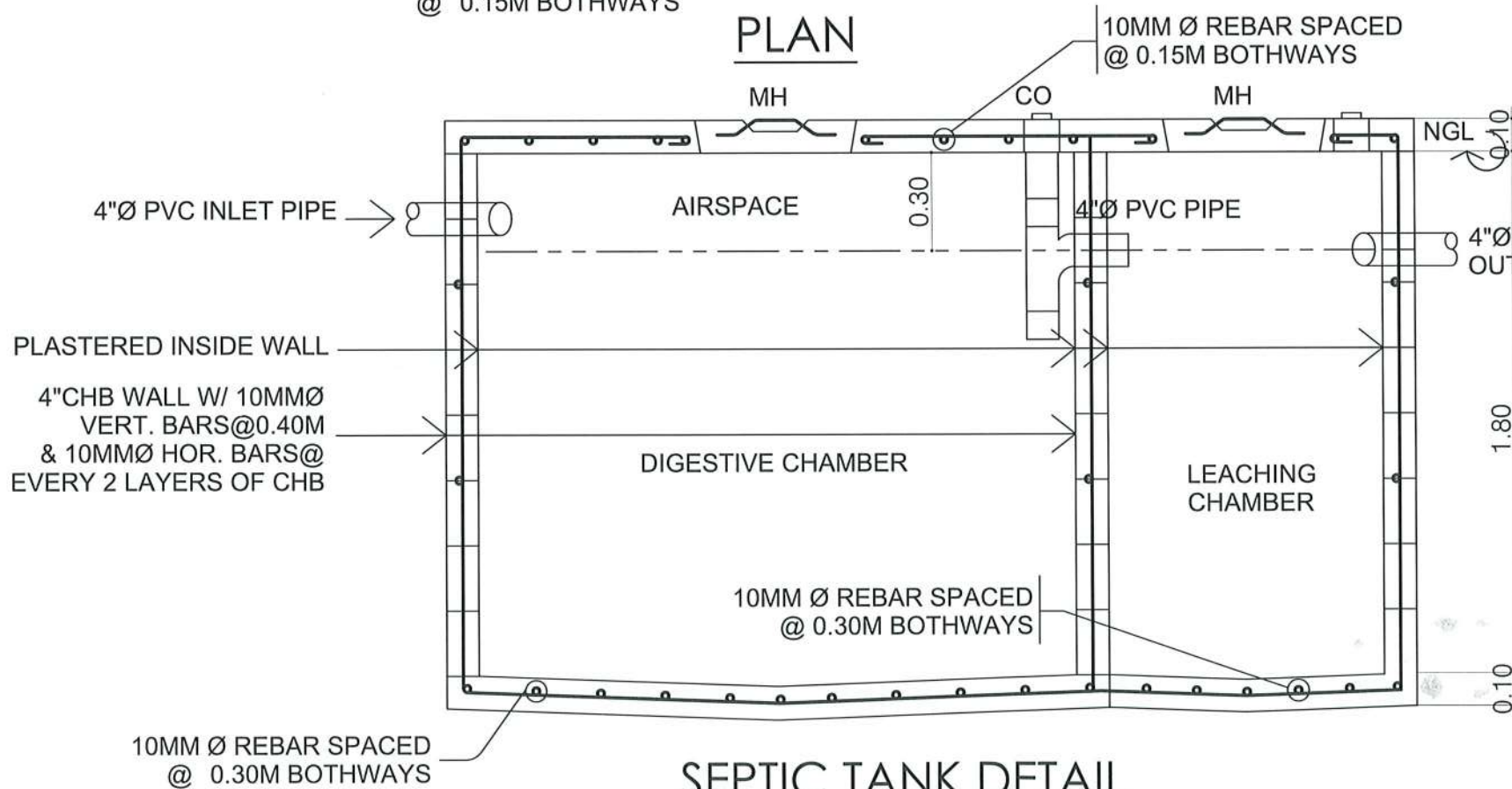
**GROUND FLOOR ISOMETRIC
DOWNSPOUT & DRAINAGE LAYOUT**

SCALE 1:130 MTS.

 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
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	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	58 / 75



PLAN



SEPTIC TANK DETAIL

SCALE 1: 20 M.

LEGEND:

GV	GATE VALVE	SS	SLOP SINK
WM	WATER METER	CO	CLEANOUT
CV	CHECK VALVE	VSTR	VENT STACK THRU ROOF
WC	WATER CLOSET	PVC	POLYVINYL CHLOURIDE
LAV	LAVATORY	CWL	COLD WATER LINE
FD	FLOOR DRAIN	CB	CATCH BASIN
F	FAUCET	S.T.	SEPTIC TANK
PCO	PVC CLEANOUT	MH	MANHOLE
BCO	BRASS CLEANOUT	SVTR	STACK VENT THRU ROOF
URI	URINAL		

GENERAL NOTES

1. GRADE OF THE HORIZONTAL PIPING:
RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AT THE UNIFORM GRADE OF NOT LESS THAN (2%).
2. CHANGES IN DIRECTION:
ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP QUATER BEND, SIXTH, EIGHT, OR SIXTEENTH BENDS, WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL. A SINGLE 1/8 BEND COMBINATION MAY BE USED ON WASTE, LINES, TEES AND CROSSES MAY BE USED ON VENT PIPES.
3. PROHIBITED FITTINGS:
NO DOUBLE TEE BRANCHES SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES, DRILLING & TRAPPINGS OF HOUSE DRAINS, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BENDS ARE PROHIBITED.
4. SLEEVES:
PROVIDE THE PIPE SLEEVES AT WALLS, COLUMNS OR SLAB ON SIZED BIGGER THAN THE ACTUAL SIZE OF THE PIPE PASSING THROUGH WALLS OR UNDER SLABS TO PROTECT PIPES FROM BREAKAGE.
5. PIPES CLEANOUTS:
CLEANOUTS ARE REQUIRED EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND HALF DEGREES (22 1/2°).
6. DEAD ENDS AVOIDED:
IN THE INTALLATIONS OF PLUMING SYSTEM DEAD ENDS SHALL BE AVOIDED.
7. ALL PLUMBING WORKS:
ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL PLUMBING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISIONS OF THE NATIONAL BUILDING CODE.



PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: DR. JASPER JAY N. MENDOZA DEAN, CTED	CHECKED BY: AR. ULYSSES B. CALUYA ARCHITECT, FDMO	CERTIFIED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	RECOMMENDING APPROVAL: AR. CHERRY L. FABIANES DIRECTOR, FDMO	APPROVED: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: P- 08 PAGE NO: 59 / 75 DATE: MARCH 2023
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GENERAL NOTES AND SPECIFICATIONS

SCALE

NTS

- ALL ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE REQUIREMENTS OF THE POWER COMPANY CONCERNED.
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR PROFESSIONAL ELECTRICAL ENGINEER.
- MATERIALS THAT PROVIDES SUPPORT, ADDED SAFETY, AND ACCESS, SUCH AS PULL BOXES, JUNCTION BOXES, BENDS AND OTHER FITTINGS SHALL BE PROVIDED EVEN IF NOT EXPLICITLY STATED IN THE PLAN.
- THE ELECTRICAL SERVICE ENTRANCE POWER FOR THE BUILDING SHALL BE 230V, SINGLE PHASE, 2-WIRE + GROUND, 60 HZ. SEE SCHEDULE OF LOADS.
- WIRES SHALL BE COLOR CODED AS FOLLOWS:
LINE 1 --- RED LINE 2 --- YELLOW GROUND --- GREEN
- WIRING METHOD SHALL BE AS FOLLOWS:
a. FOR EMBEDDED PIPE -POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 (PVC SCH 40)
b. FOR RUN EXPOSED PIPE -ELECTRICAL METALLIC TUBING CONDUIT (EMT)
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT SHALL BE 3.5mm.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL EQUIPMENT PANEL BOARD AND NON-CURRENT CARRYING METAL IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
a. LIGHTING SWITCHES -1.4m ABOVE THE FINISHED FLOOR
b. CONVENIENCE OUTLET -0.3m ABOVE THE FINISHED FLOOR
c. PANEL BOARD -1.8m ABOVE THE FINISHED FLOOR
d. AIR-CONDITIONER OUTDOOR BREAKER -AT CONVENIENT HEIGHT NEAR EQUIPMENT
- ANY DISCREPANCY IN LOCATION AND RATING OF ELECTRICAL EQUIPMENT SHALL BE VERIFIED WITH THE OWNER AND CHANGES SHALL BE MADE ACCORDINGLY.
- PROVIDE LABEL OF CIRCUIT BREAKERS ON EACH PANEL BOARD. SEE SCHEDULE OF LOADS FOR YOUR REFERENCE.



CODE OF WIRES

SCALE

1:100 MTS

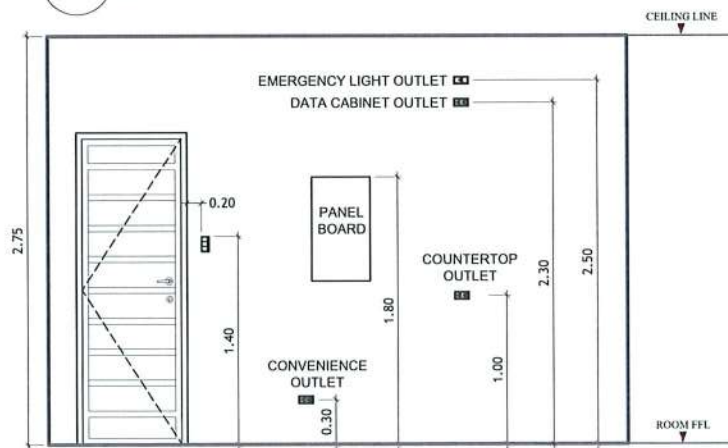
WIRE CODE	WIRE DESCRIPTION
2W+G	
S0	2-3.5 mm ² + 3.5 mm ² Cu THHN / THWN IN 1/2" Ø CONDUIT
S1	2-5.5 mm ² + 3.5 mm ² Cu THHN / THWN IN 1/2" Ø CONDUIT
S2	2-8.0 mm ² + 5.5 mm ² Cu THHN / THWN IN 1/2" Ø CONDUIT
S7	2-6.0 mm ² + 2.2 mm ² Cu THHN / THWN IN 2" Ø CONDUIT



MOUNTING DETAILS

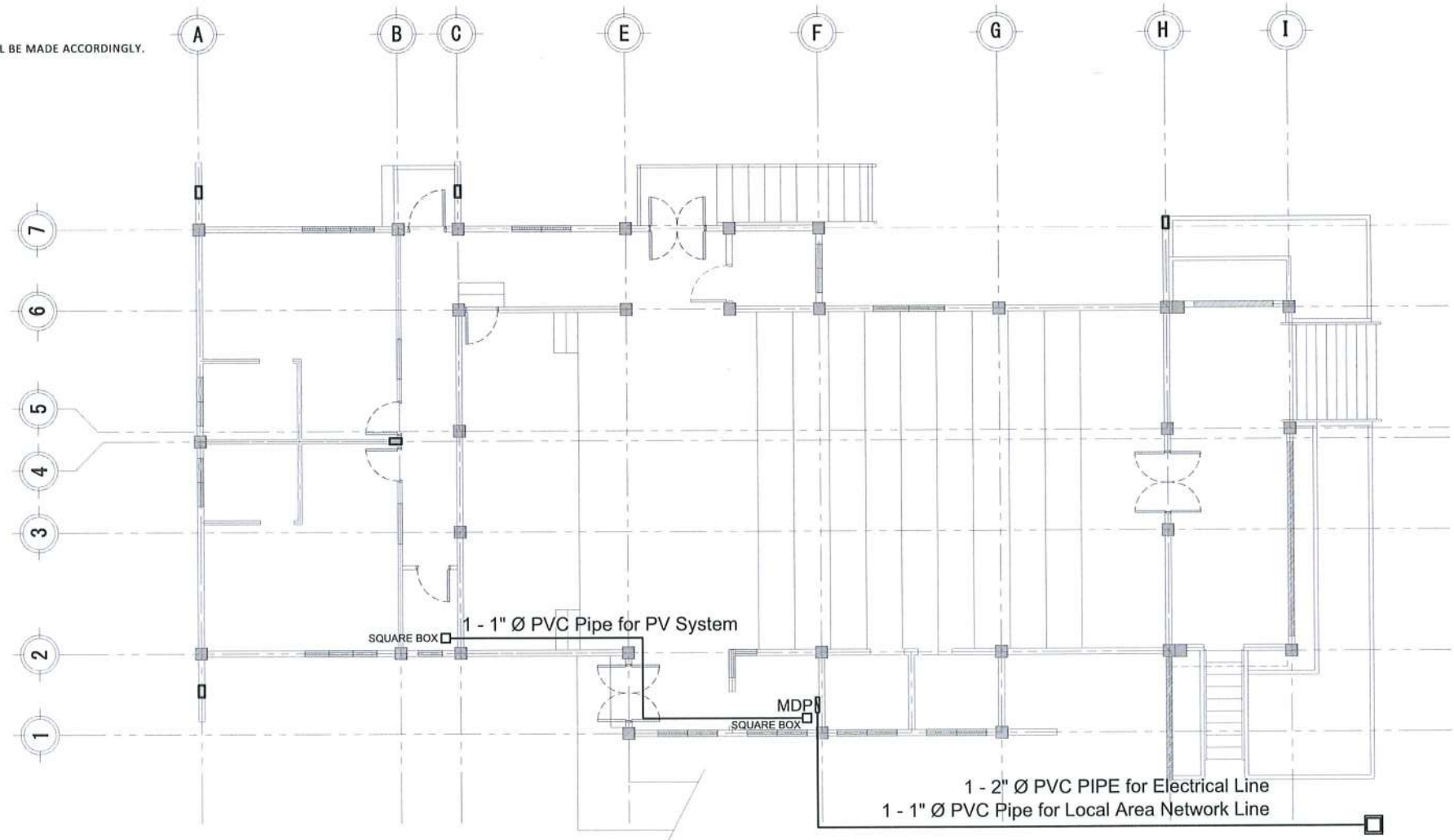
SCALE

1:50 MTS



ELECTRICAL LEGEND

S _a	One-gang One way Switch		Universal Duplex Convenience Outlet
S _{ab}	Two-gang One way Switch		Data Cabinet Duplex Universal Convenience Outlet
S _{abc}	Three-gang One way Switch		10" Ceiling Mounted Exhaust Fan
	20 Watts Recessed COB LED Square Downlight [Color: Daylight]		Electrical Junction Box (Pull Box)
	12 Watts Recessed Mounted LED Panel Square Downlight [Color: Daylight]		Wall Mounted Fan Coil Unit
	12 Watts Recessed Mounted LED Panel Square Downlight [Color: Warm White]		Air-Cooled Condensing Unit
	12 Watts Surface Mounted LED Panel Circle Downlight [Color: Warm White]		Branch Circuit Homerun
	6" E27 Cylindrical Downlight with 18W LED Bulb [Color: Warm White]		Main Distribution Panel Board
EL	3 Watts Recessed LED Emergency Light [Ceiling Mounted]		Data Outlet
	LED Strip Light on Acoustic Wall		Electrical Service Entrance Concrete Pedestal
	LED Strip Light on Concave Ceiling		Access Point
	Electrical Square Box (Pull Box)		Electrical Utility Box (Pull Box)

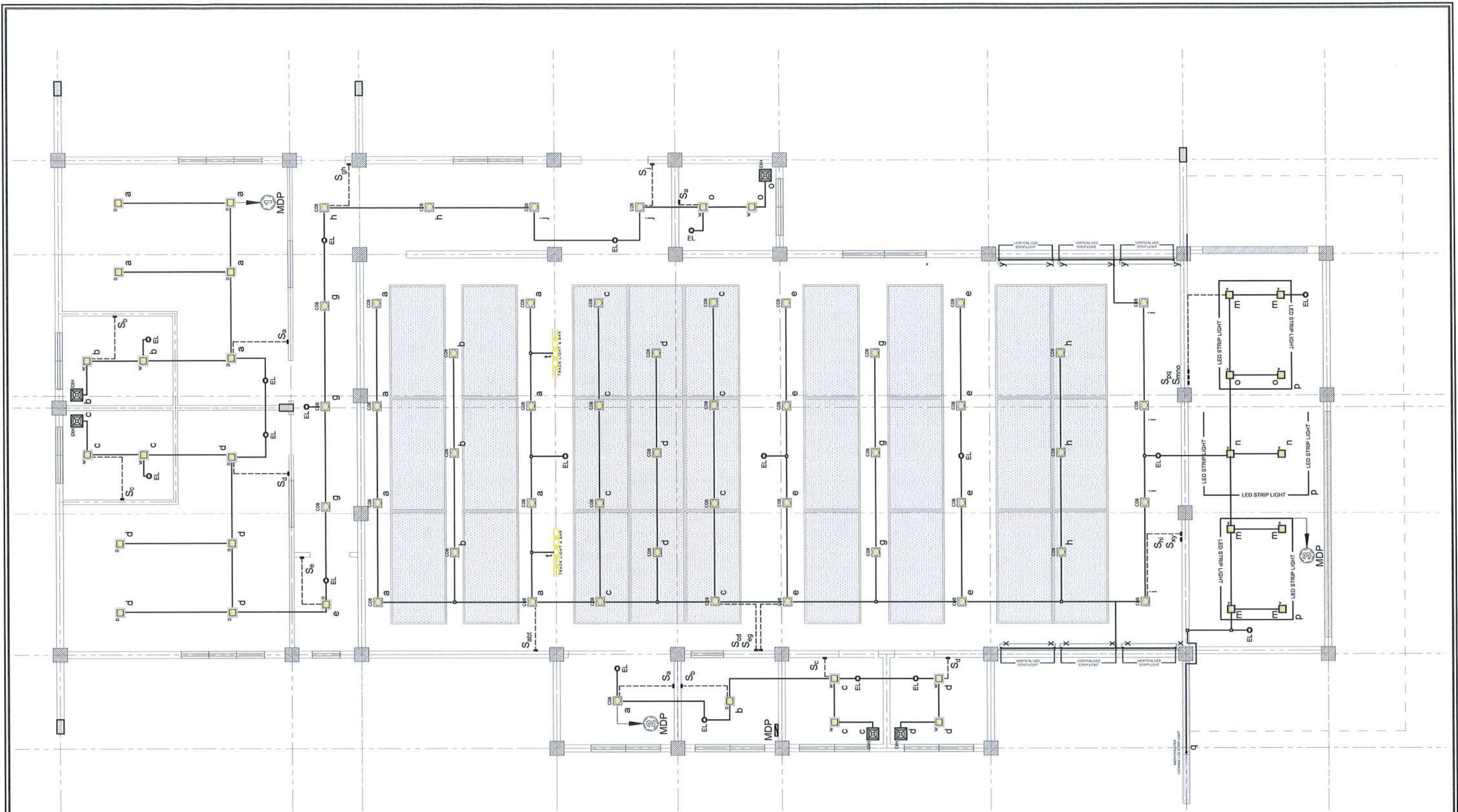


AMPHITHEATER FEEDER LINE LAYOUT

SCALE

1:150 MTS

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2100	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA DEAN, CTED	ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	E- 01
	PROJECT LOCATION:							PAGE NO.:	
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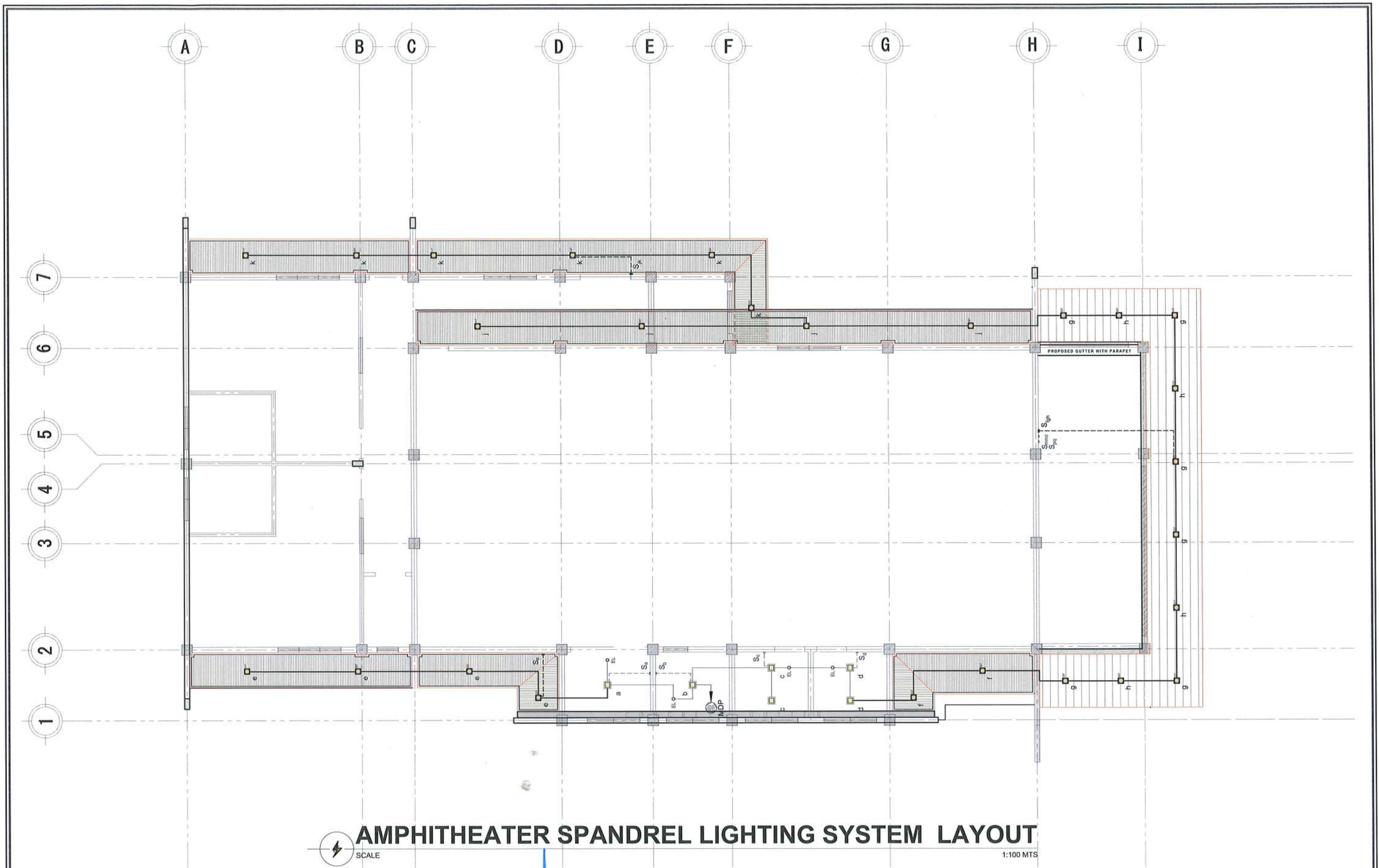


NOTE:
 WIRING METHOD FOR SIGNAGE LIGHTING:
 a. FOR EMBEDDED PIPE -PVC CONDUIT SCH 40
 b. FOR RUN THROUGH ACP -MICA TUBE

AMPHITHEATER LIGHTING SYSTEM LAYOUT
 SCALE 1:80 MTS



PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACIE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO.: E- 02 PAGE NO.: 61/75
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AMPHITHEATER SPANDREL LIGHTING SYSTEM LAYOUT

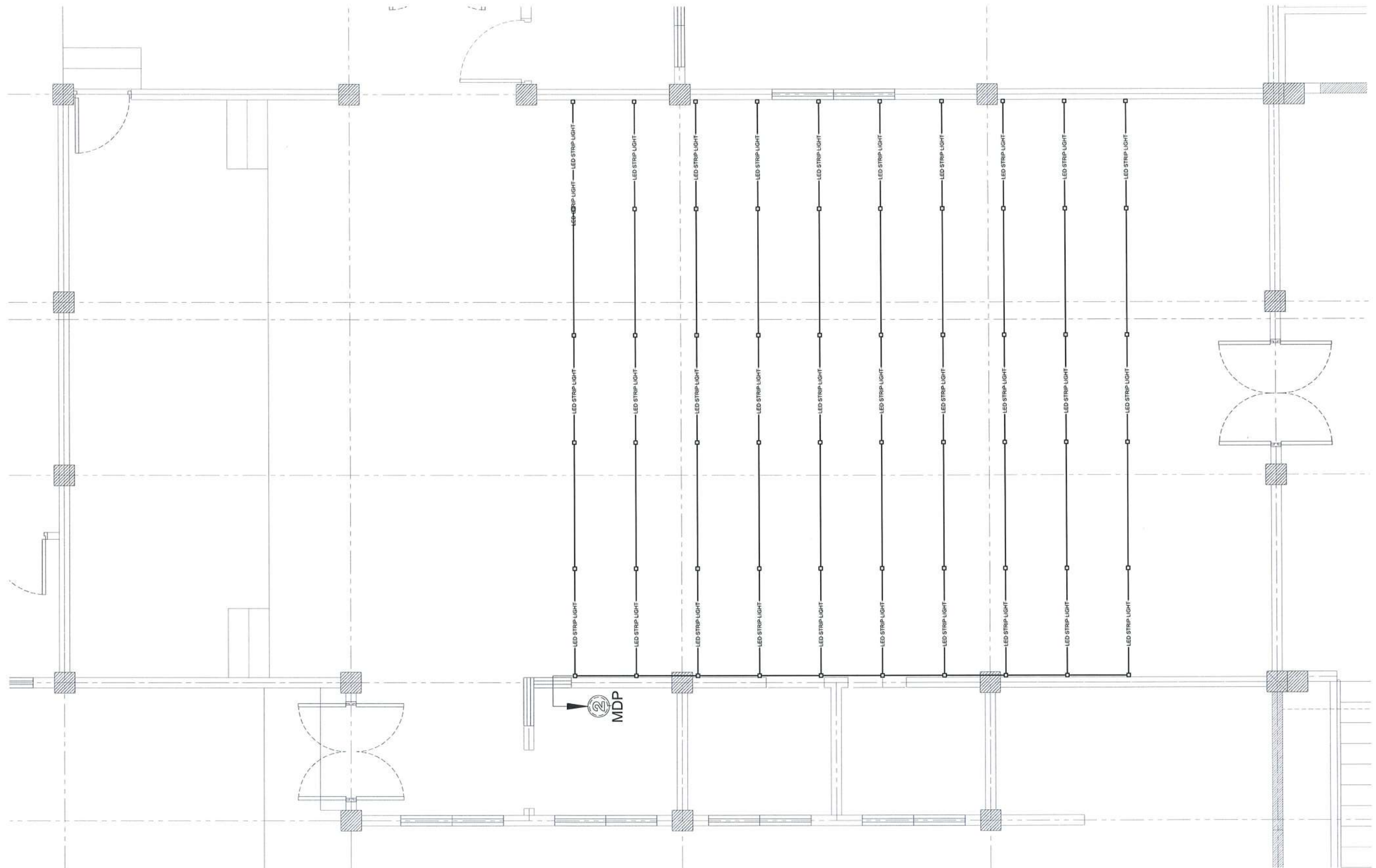


SCALE

1:100 MTS



PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO.: E- 03 PAGE NO: 62 / 75
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AMPHITHEATER LED STEP LIGHT LAYOUT
1:55 MTS



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 PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER
 PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA
DEAN, CTED

PREPARED BY: ENGR. ROVINSON F. FRIAS
ELECTRICAL ENGINEER, FDMO

CHECKED BY: AR. ARLEN M. GUIEB
PLANNING UNIT HEAD, FDMO

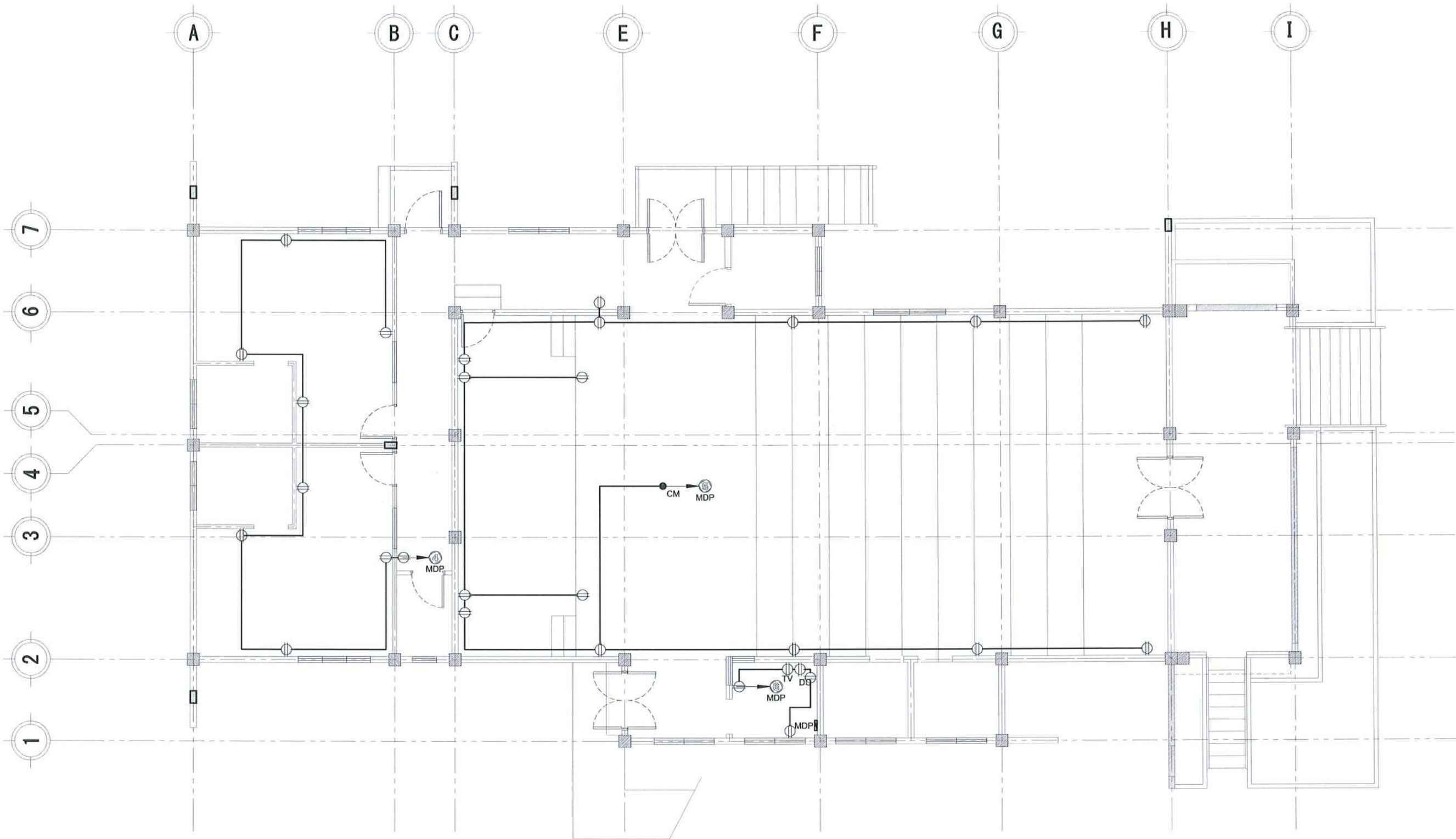
CERTIFIED BY: AR. CHERRY L. FABIANES
DIRECTOR, FDMO

RECOMMENDING APPROVAL: DR. GRACE N. ROSETE
VP FOR ADMINISTRATION

APPROVED: DR. ARNOLD E. VELASCO
PRESIDENT

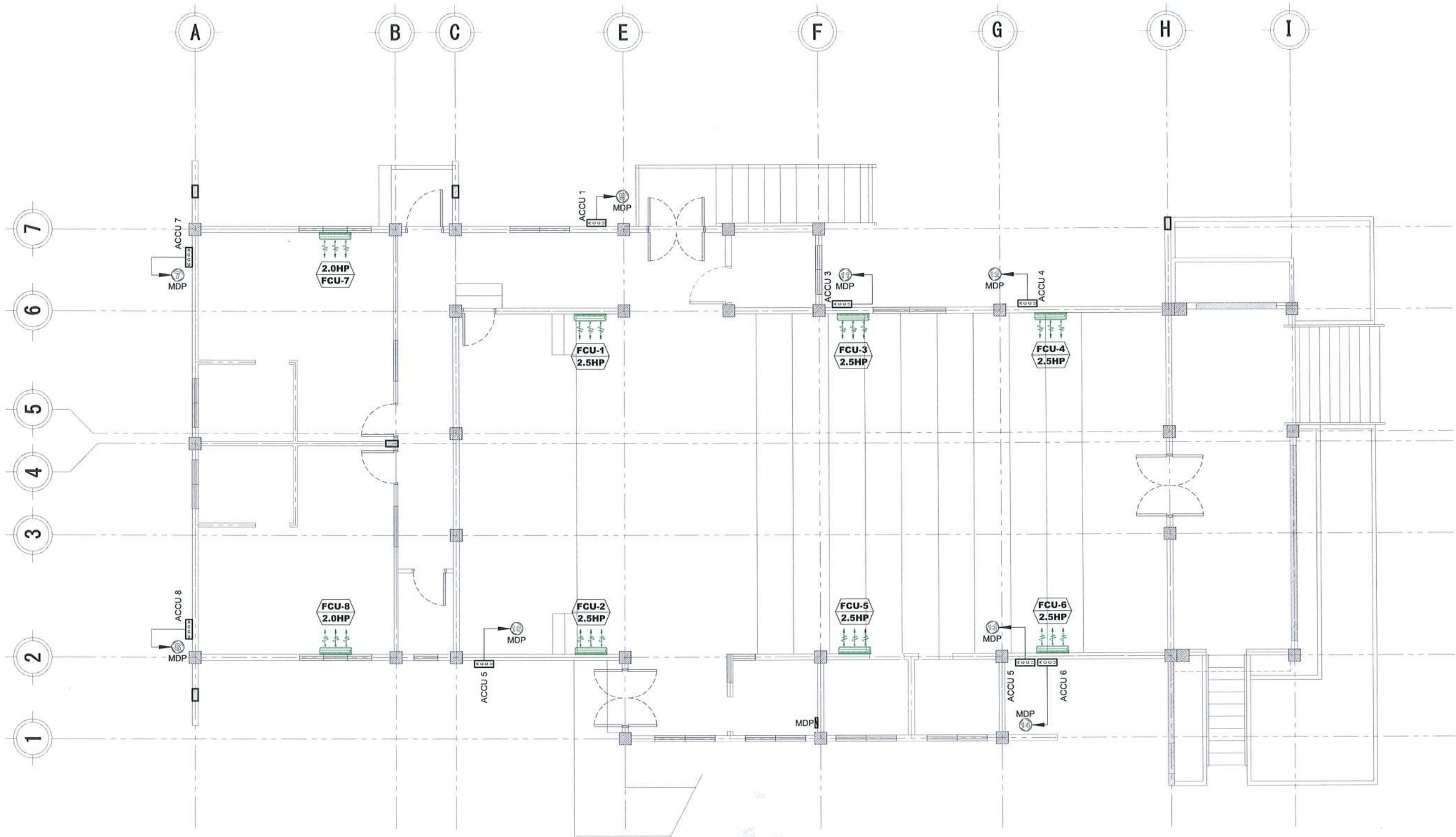
SHEET CONTENTS: AS SHOWN
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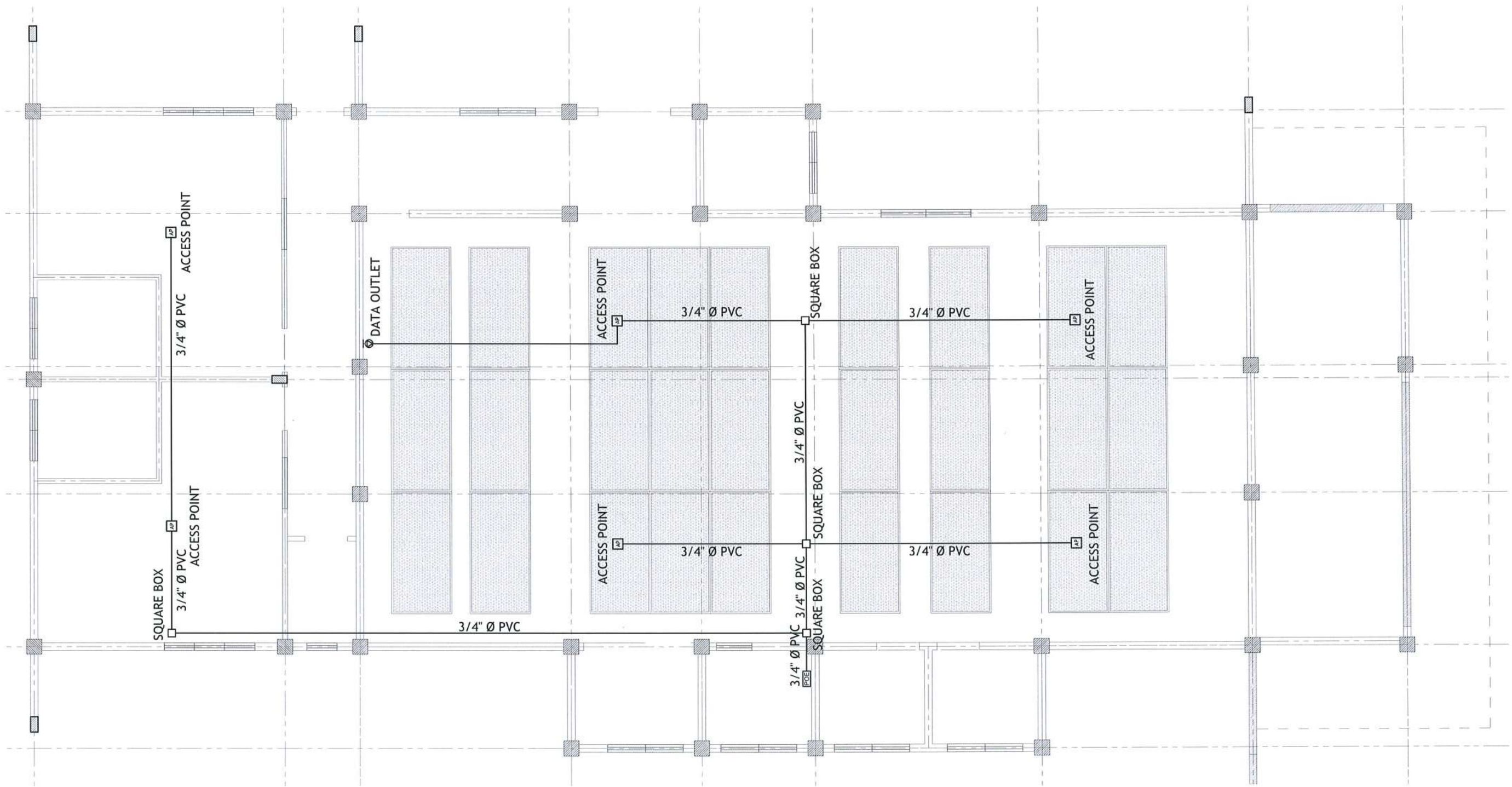
AMPHITHEATER POWER SYSTEM LAYOUT
 SCALE 1:100 MTS

 <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
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AIR-CONDITIONING POWER SYSTEM LAYOUT
 SCALE 1:100 MTS

 <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA DEAN, CTED	 ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	 AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	 AR. CHERRY L. FABIANES DIRECTOR, FDMO	 DR. GRACE N. ROSETE VP FOR ADMINISTRATION	 DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	E- 06
	PROJECT LOCATION:							LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DATE: MARCH 2023



AMPHITHEATER STRUCTURED CABLING SYSTEM LAYOUT

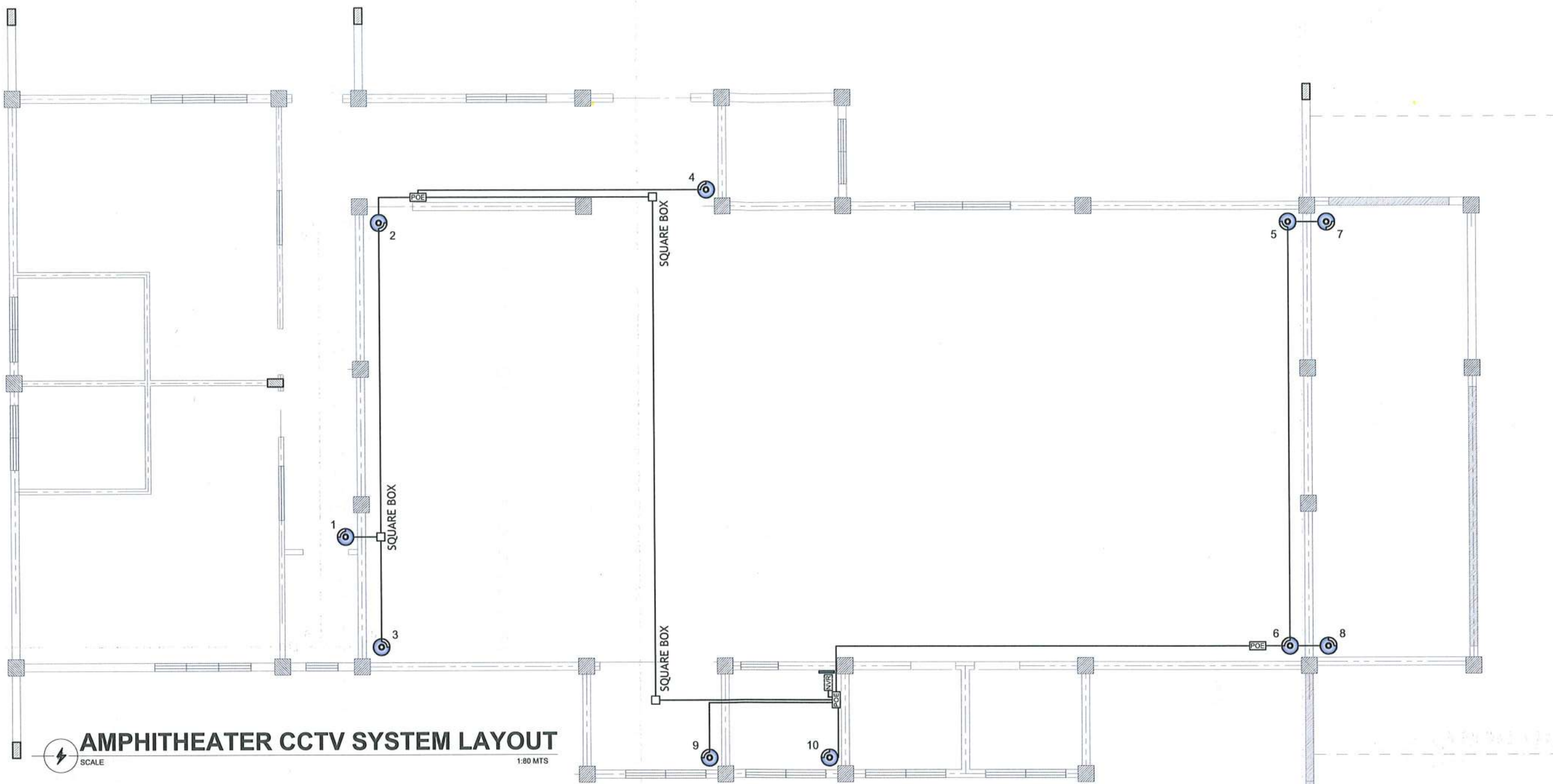
SCALE

1:80 MTS



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
REFURBISHMENT OF TSU AMPHITHEATER	DR. JASPER JAY N. MENDOZA DEAN, CTED	ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN DATE: MARCH 2023	E- 07 PAGE NO: 66 / 75

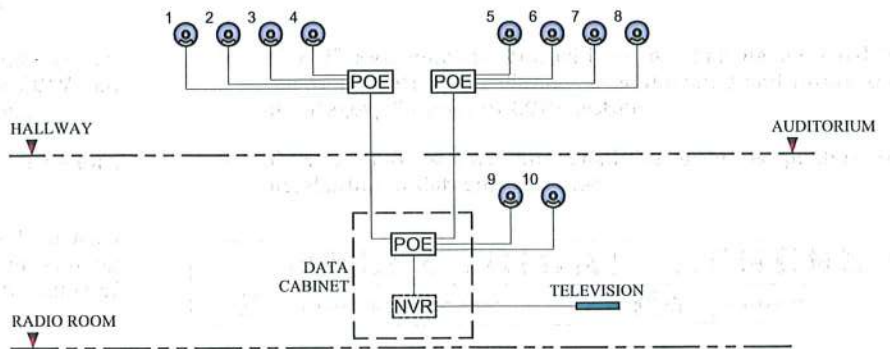


AMPHITHEATER CCTV SYSTEM LAYOUT

SCALE

1:80 MTS

CCTV RISER DIAGRAM



IMPORTANT NOTE: (STRUCTURED CABLING AND CCTV SYSTEM)

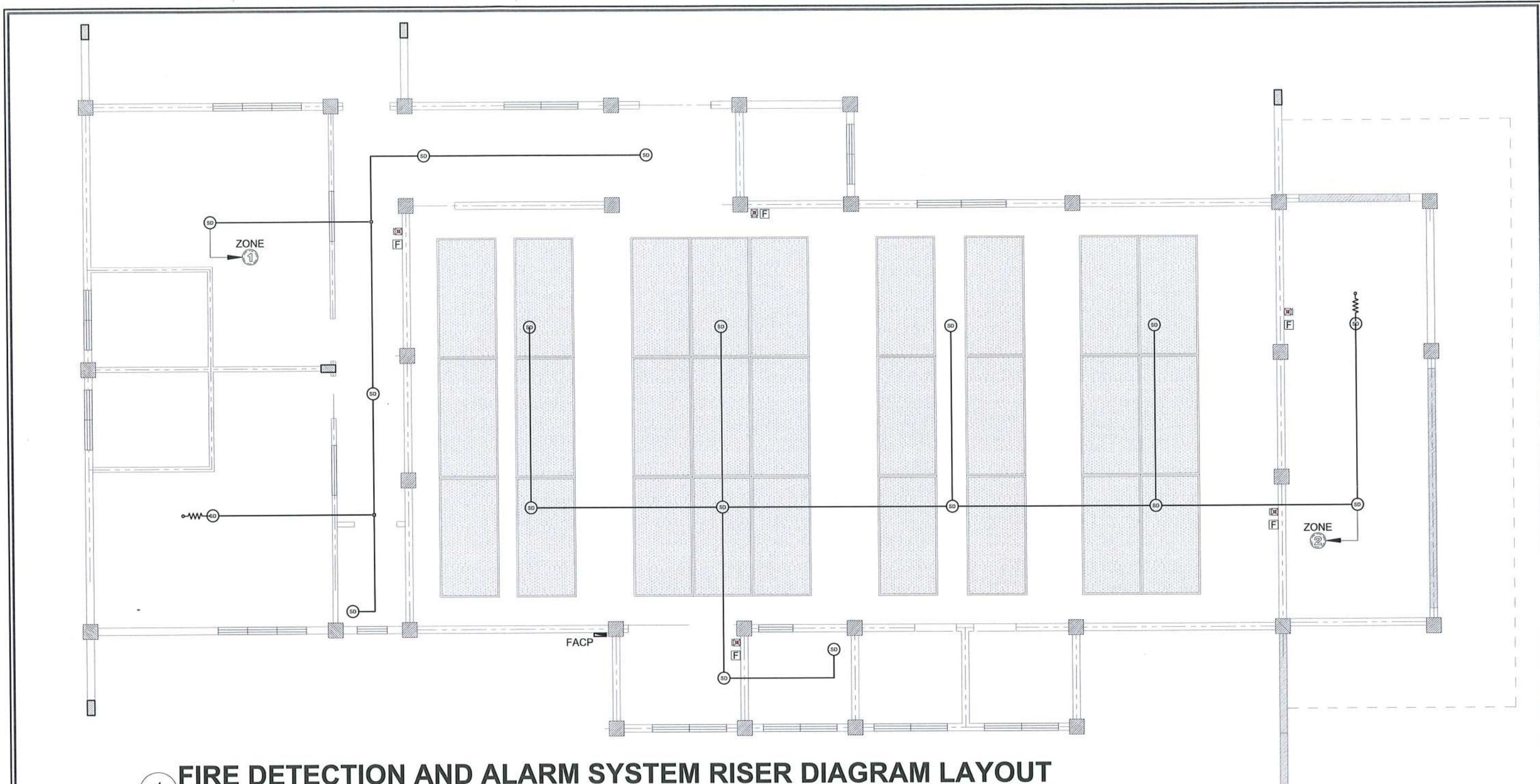
1. All equipments and cabling devices shall be unsupplied, hence, rough-ins shall be installed for all locations shown on the CCTV and structured cabling layouts for future installation the devices.
2. 3/4" dia. PVC pipe with G.I. wire inside shall be installed as a conduit for future installation of Category 6 cables.
3. 2" x 4" PVC utility box with blank plate shall be installed on each location shown in the layout for future installation of cabling devices, equipments and future termination of Category 6 cables of structured cabling system.

3. 4" x 4" PVC junction box with cover shall be installed inside the ceiling for future installation of equipments and future termination of Category 6 cables of CCTV system.
4. 5" x 5" PVC square box shall be used as pullbox for future installation of Category 6 cables.

ELECTRICAL LEGEND	
	Close-Circuit Television Camera
	Data Cabinet



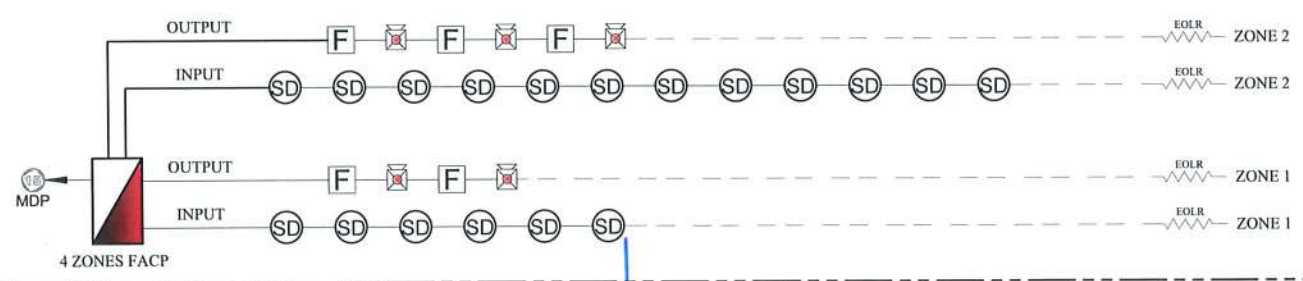
PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: E- 09
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO: 68 / 75



FIRE DETECTION AND ALARM SYSTEM RISER DIAGRAM LAYOUT

SCALE

1:80 MTS.



ELECTRICAL LEGEND	
	Smoke Detector
	6" Fire Bell with Red Flasher Light
	Fire Alarm Control Panel
	Manual Pull Station
	End of the Line Resistor

<p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY: ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	CHECKED BY: AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY: AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL: DR. GRACELA ROSETE VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: MARCH 2023	SHEET NO: E- 10 PAGE NO: 69 / 75
	PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								

SCHEDULE OF LOADS

SCALE

NTS

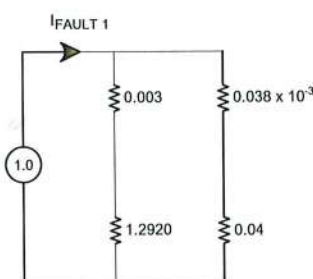
Panel Board	: MAIN DISTRIBUTION PANEL	System Voltage	: 230 V, 1Φ, 60 Hz
Fed From	: DISTRIBUTION SERVICE LINE	Main Feeder Size	: 1 SET OF S7
Main Circuit Breaker	: 150 AT / 200 AF	Enclosure	: NEMA-1

Ckt. No.	Description	VA	A	Circuit Breaker			Branch Circuit Wiring		
				P	AT	AF	Raceway	Wire	Code
1	LIGHTINGS	456	1.98	2	20	50	PVC	THHN	S0
2	LIGHTINGS	462	2.01	2	20	50	PVC	THHN	S0
3	LIGHTINGS	914	3.97	2	20	50	PVC	THHN	S0
4	CONVENIENCE OUTLET	1,620	7.04	2	20	50	PVC	THHN	S0
5	CONVENIENCE OUTLET	2,160	9.39	2	20	50	PVC	THHN	S0
6	CONVENIENCE OUTLET	900	3.91	2	20	50	PVC	THHN	S0
7	2.0 HP AIR-CONDITIONING UNIT	2,760	12.00	2	30	50	PVC	THHN	S1
8	2.0 HP AIR-CONDITIONING UNIT	2,760	12.00	2	30	50	PVC	THHN	S1
9	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
10	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
11	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
12	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
13	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
14	2.5 HP AIR-CONDITIONING UNIT	3,450	15.00	2	40	50	PVC	THHN	S2
15	FIRE ALARM CONTROL PANEL	1,000	4.35	2	20	50	PVC	THHN	S0
16	SPARE	-	-	-	20	50	-	-	-
17	SPACE	-	-	-	-	-	-	-	-
18	SPACE	-	-	-	-	-	-	-	-
Total connected load		33,732	146.66					Demand Factor : 80%	
Total demand load current		120.33						Location: RADIO ROOM	

Description	Size of Wire	Type of Conduit	Length (m)	Base KVA	Impedance of Wire (per 305m)	Impedance of Wire (Ω)	Impedance of Wire (p.u.)
MDP	60	PVC	35.00	37.5	0.11	0.0042	0.0030

LOAD	Rating (KVA)	Base (KVA)	Size of Wire (mm2)	Type of Conduit	LENGTH (m)	Impedance of Wire (per 305 m)	Impedance of Wire (Ω)	Impedance of Motor (Ω)	Impedance of Wire (p.u.)	Impedance of Motor (p.u.)	Total Impedance (p.u.)
2.0 HP AIR-CONDITIONING UNIT	2.76	38	5.5	PVC	18.72	1.201	0.0737	0.25	0.0523	3.40	3.4490
2.0 HP AIR-CONDITIONING UNIT	2.76	38	5.5	PVC	28.46	1.201	0.1121	0.25	0.0795	3.40	3.4762
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	21.14	0.782	0.0542	1.25	0.0384	13.59	13.6254
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	20.67	0.782	0.0530	2.25	0.0376	24.46	24.4941
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	15.96	0.782	0.0409	3.25	0.0290	35.33	35.3551
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	23.51	0.782	0.0603	4.25	0.0427	46.20	46.2384
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	11.72	0.782	0.0300	5.25	0.0213	57.07	57.0865
2.5 HP AIR-CONDITIONING UNIT	3.45	38	8.0	PVC	12.27	0.782	0.0314	6.25	0.0223	67.93	67.9571
TOTAL PARALLEL IMPEDANCE											1.2920

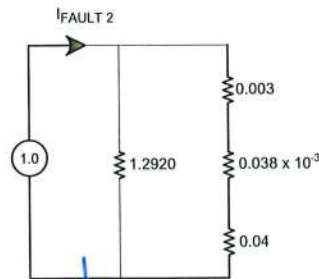
FAULT CALCULATION



SIMPLIFIED DIAGRAM

$Z_{Total} = 0.0388 \text{ pu}$
 $I_{sc(sym)} = (1 / 0.0388) \times [37,500 / (230)]$
 $= 4.1981 \text{ KAIC}$

Use at least 5 KAIC rating of Circuit Breaker



SIMPLIFIED DIAGRAM

$Z_{Total} = 0.0417 \text{ pu}$
 $I_{sc(sym)} = (1 / 0.0417) \times [37,500 / (230)]$
 $= 3.9146 \text{ KAIC}$

Use at least 5 KAIC rating of Circuit Breaker

VOLTAGE DROP CALCULATION

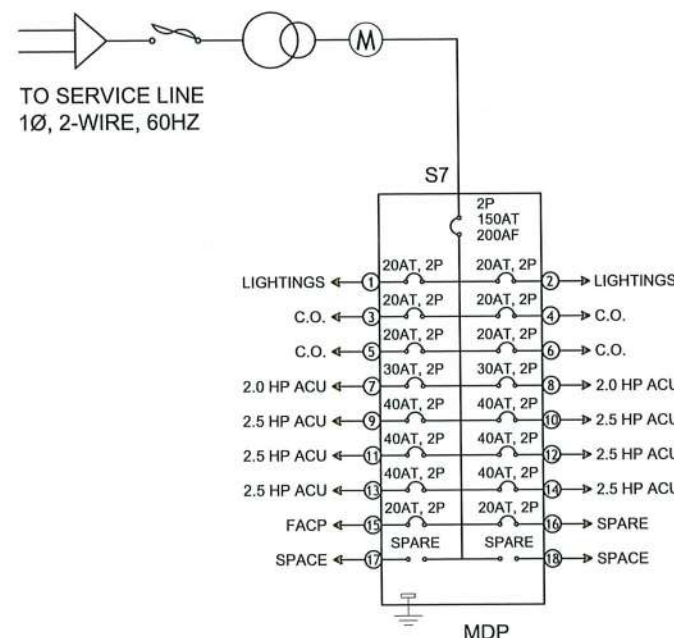
Conductor: 1 Set of 2-60mm² in a 2" Ø PVC conduit
 Distance from Service Drop to MDP: 35 meters
 Effective Z at 0.85 pf: 0.11 ohms per 305m @75°C

• Voltage Drop @ Main Distribution Panel
 $VD = (2 \times 35 \times 122.73 \times 0.11) / 305$
 $= 3.10 \text{ V} \sim 1.35\%$

Voltage Drop @ FARTHEST ACU
 $VD = (2 \times 30 \times 12.00 \times 1.1) / (305)$
 $= 2.60 \text{ V} \sim 1.13\%$

- Total %VD @ Main = 1.35% < 2%
- Total %VD @ Branch = 1.13% < 3%
- Total %VD of the System = 2.48% < 5%

SINGLE LINE DIAGRAM



Fault capacity : 1000 MVA
 Base kVA : 37.5 kVA
 Base Voltage : 230 V
 Transformer impedance : 4.0%

Service $Z_{p.u.} = 37.5 \text{ kVA} / 1\,000\,000 \text{ kVA} = 0.0375 \times 10^{-3} \text{ pu}$

Transformer $Z_{p.u.} = 4/100 = 0.04 \text{ pu}$

*Average induction motor impedance per IEEE Std 141

LOAD ANALYSIS

$I_{TOTAL} = 122.73 \text{ A}$

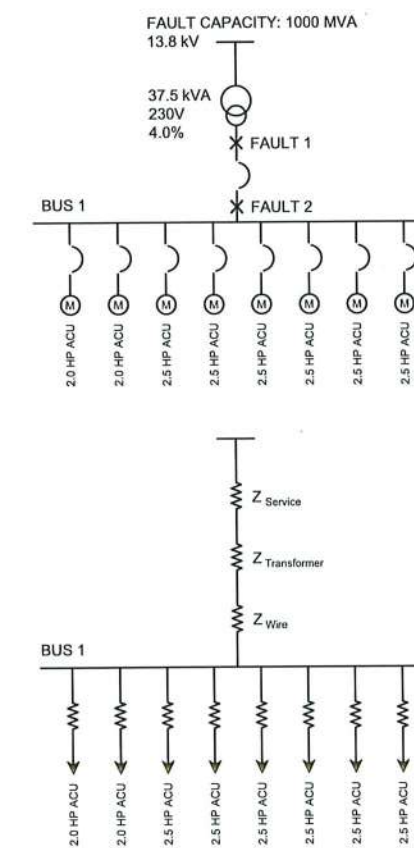
Use: 150 AT 2P CB
 1 Set of 60 mm² THHN/THWN Cu Wire
 1- 22 mm² TW Cu Wire (Ground)
 1 Set of 2" Ø PVC Conduit

For Distribution Transformer Rating

$kVA_{TRANS} = (122.73 \times 230) / 1000$
 $= 28.23 \text{ KVA} / 80\%$
 $= 35.29 \text{ KVA}$

Use: 1 - 37.5 KVA 1Ø Distribution Transformer

SHORT CIRCUIT ANALYSIS



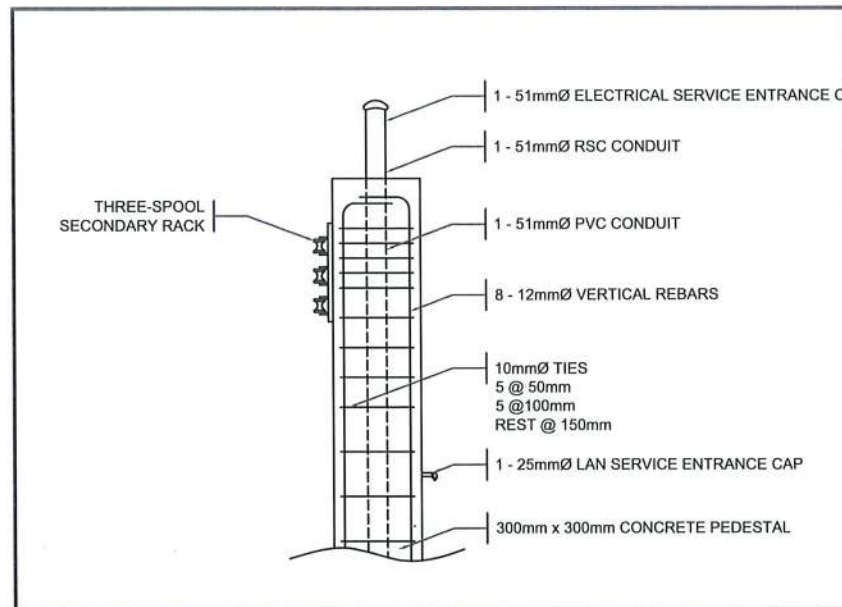
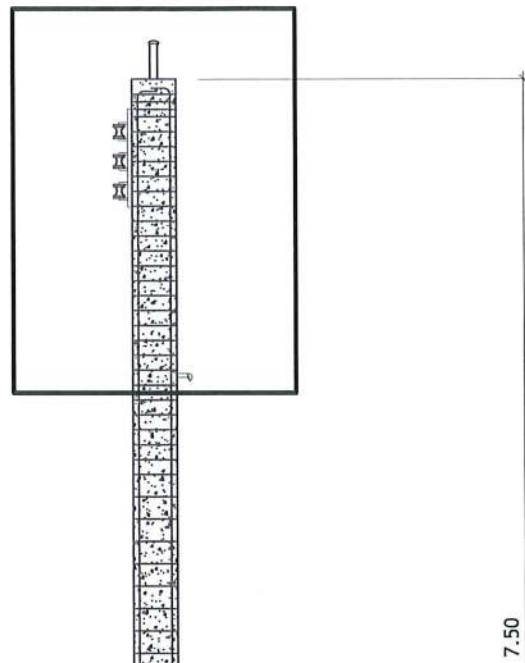
TARLAC STATE UNIVERSITY
 Facilities Development and Management Office
 Romulo Boulevard, Tarlac City, Philippines 2300

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PROJECT LOCATION:							DATE: MARCH 2023	PAGE NO: 70 / 75
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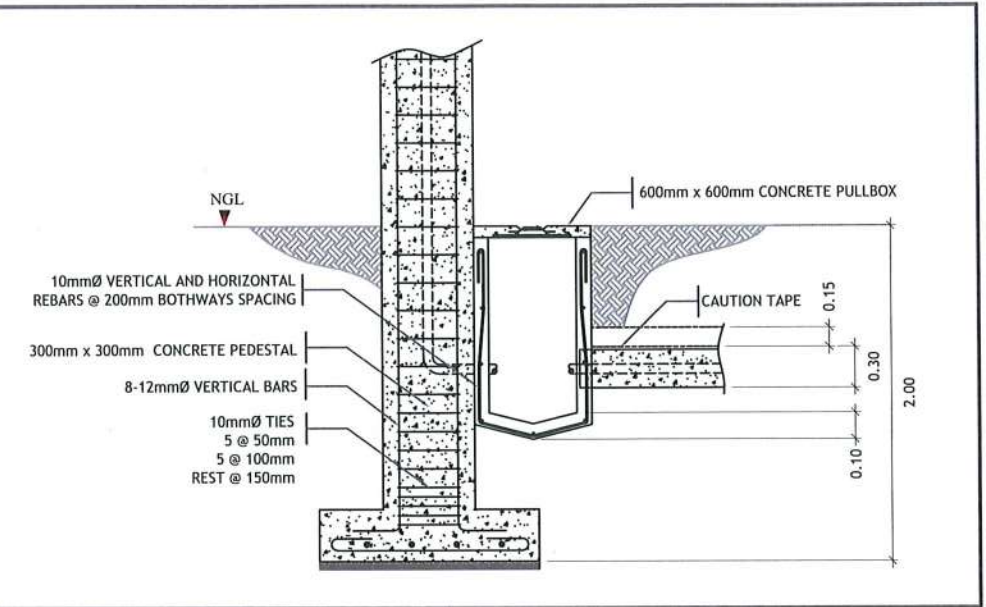
DETAILS OF ELECTRICAL CONCRETE PEDESTAL

SCALE NTS

UPPER PEDESTAL DETAIL

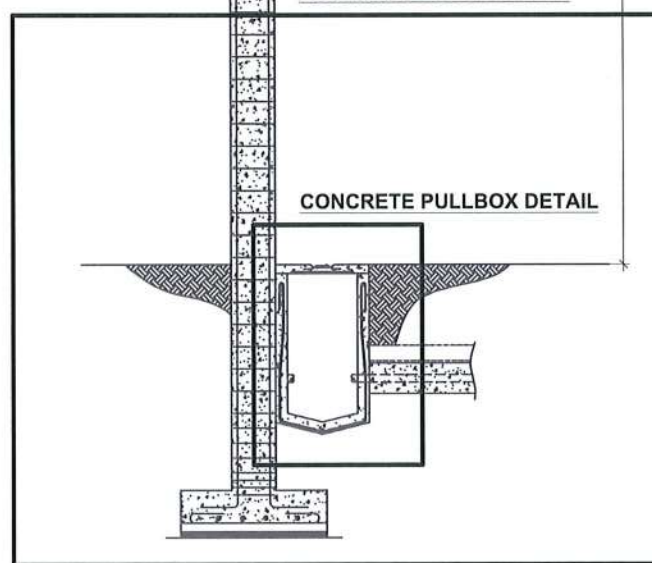


UPPER PEDESTAL DETAIL
SCALE 1:50MTS



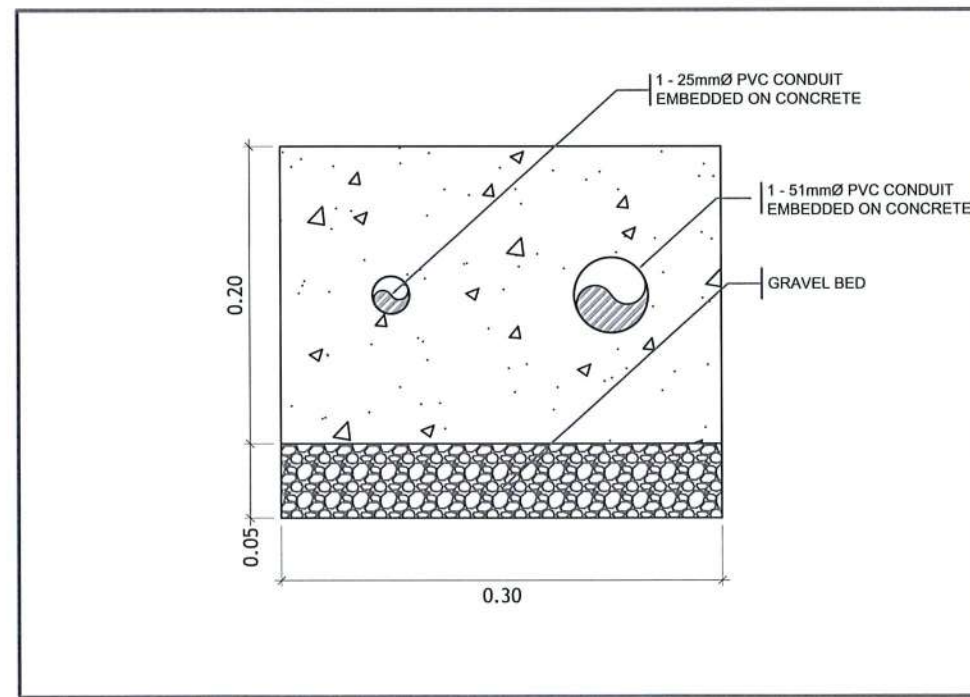
LOWER PEDESTAL DETAIL
SCALE 1:25MTS

LOWER PEDESTAL DETAIL

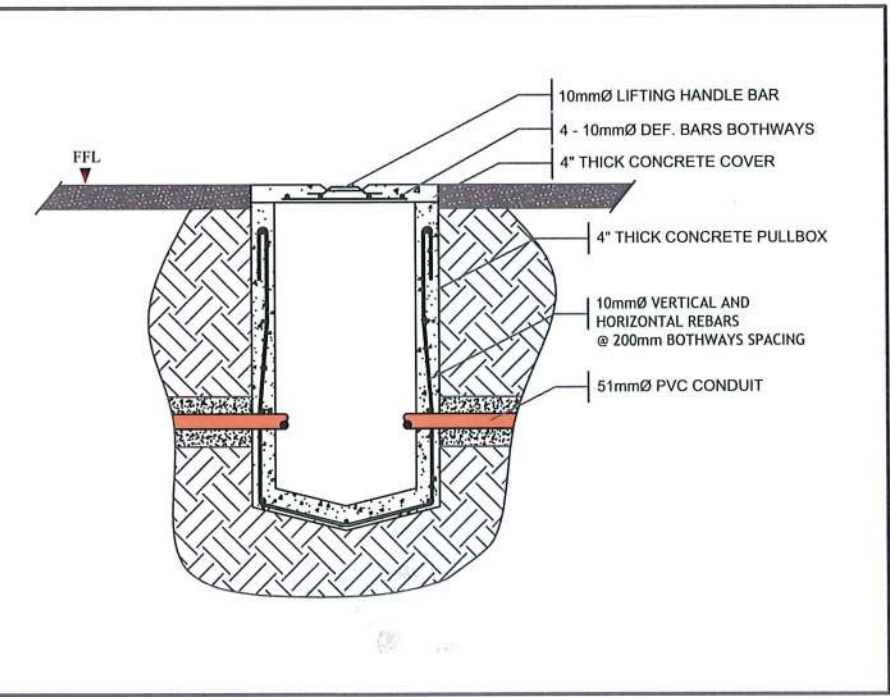


CONCRETE PULLBOX DETAIL

CONCRETE PEDESTAL DETAIL
SCALE 1:200MTS



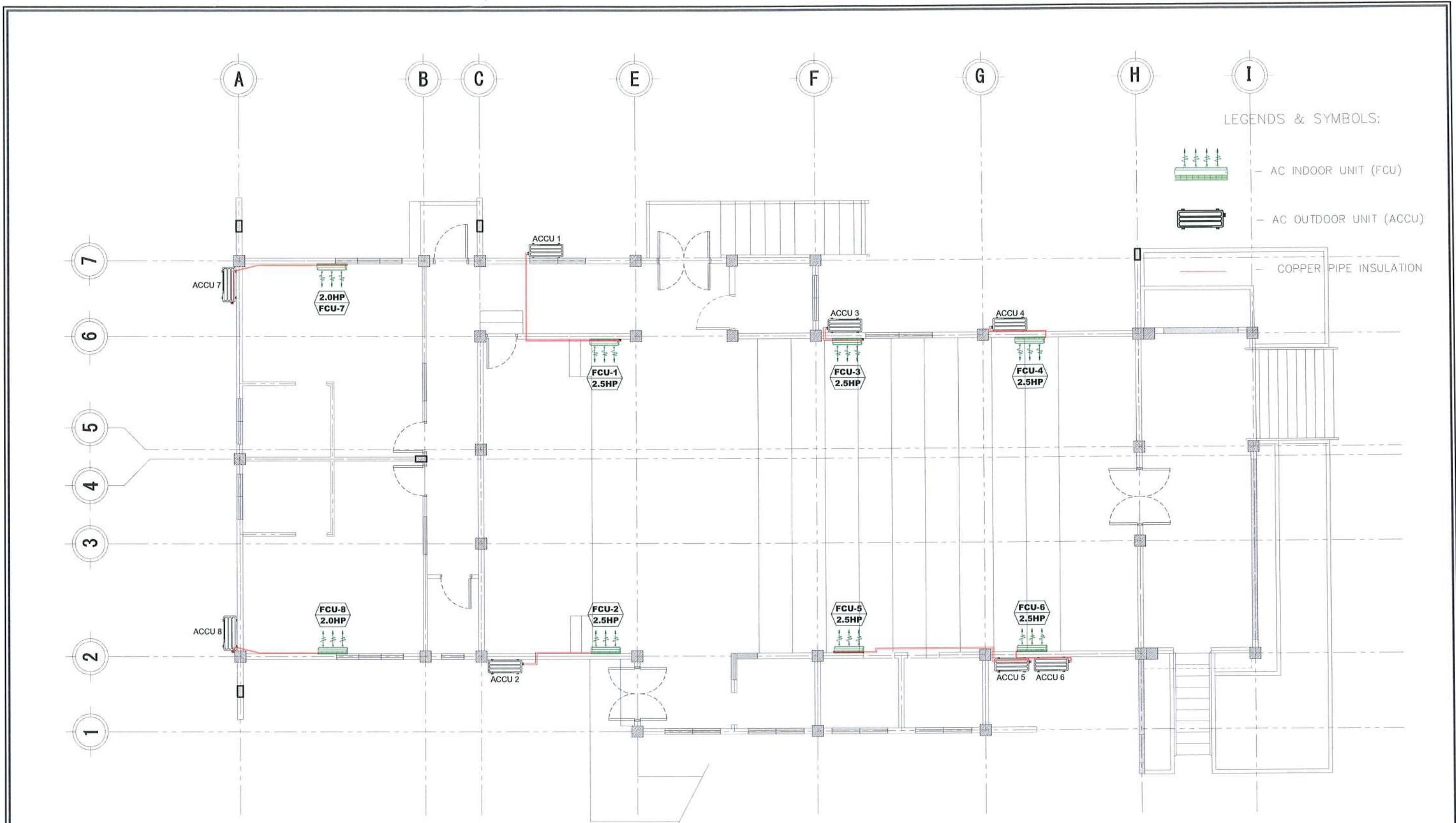
CONCRETE ENCASEMENT DETAIL
SCALE 1:5 MTS



CONCRETE PULLBOX DETAIL
SCALE 1:25MTS




PROJECT TITLE:	REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE:	DR. JASPER JAY N. MENDOZA DEAN, CTED	PREPARED BY:	ENGR. ROVINSON F. FRIAS ELECTRICAL ENGINEER, FDMO	CHECKED BY:	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	CERTIFIED BY:	AR. CHERRY L. FABIANES DIRECTOR, FDMO	RECOMMENDING APPROVAL:	DR. GRACEN. ROSETE VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO.:	E- 12
PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE: MARCH 2023		PAGE NO.:	71 / 75



LEGENDS & SYMBOLS:

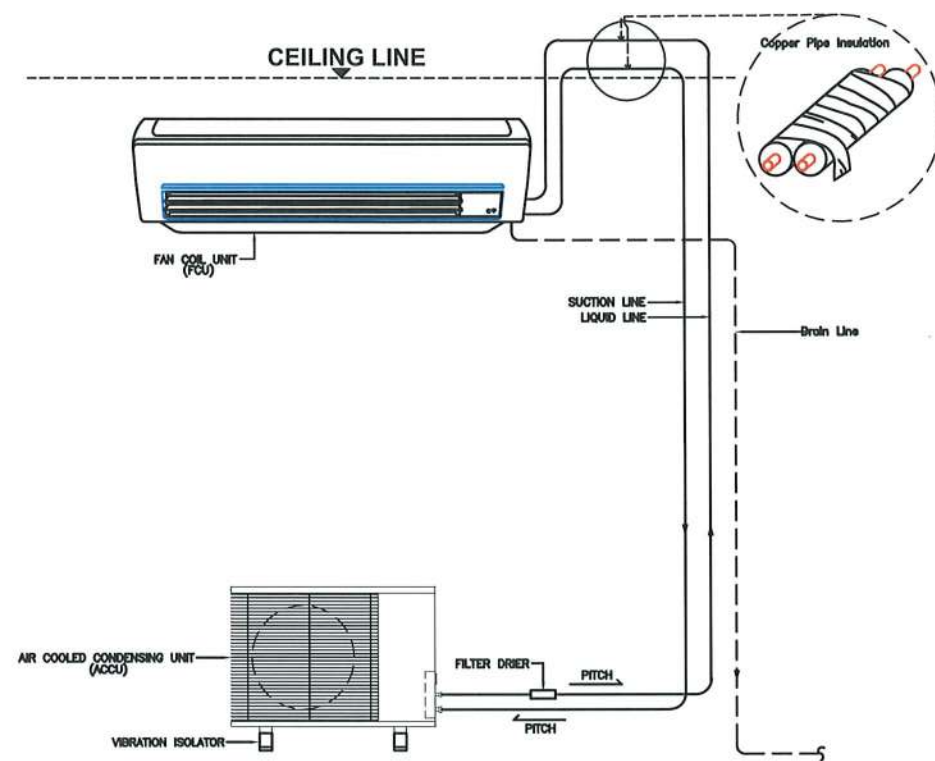
-  - AC INDOOR UNIT (FCU)
-  - AC OUTDOOR UNIT (ACCU)

AIR CONDITIONING SYSTEM LAYOUT
 SCALE: 1:100M

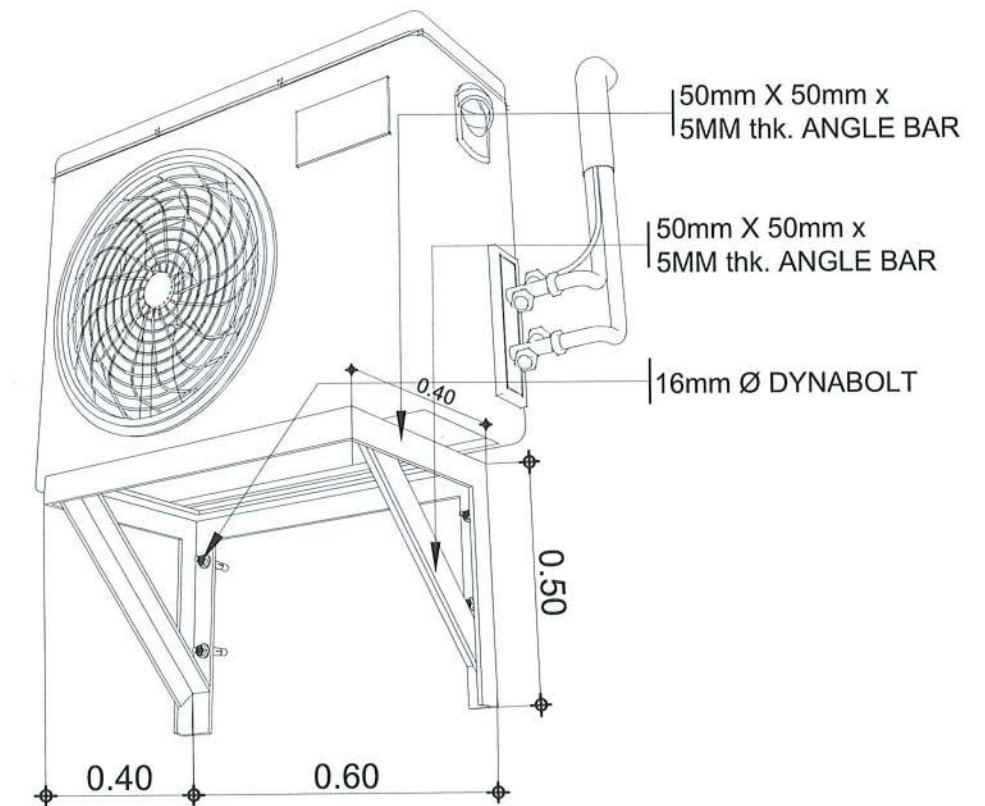
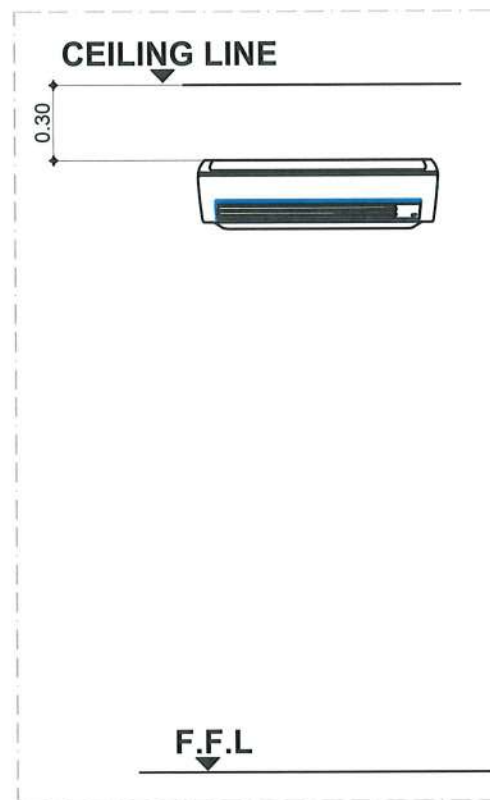
 <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office <small>Romulo Boulevard, Tarlac City, Philippines 2300</small></p>	PROJECT TITLE: REFURBISHMENT OF TSU AMPHITHEATER	REQUESTING OFFICE: DR. JASPER JAY N. MENDOZA <small>DEAN, CTED</small>	PREPARED BY: AR. ULYSSES B. CALUYA <small>ARCHITECT, FDMO</small>	CHECKED BY: AR. ARLEN M. GUIEB <small>PLANNING UNIT HEAD, FDMO</small>	CERTIFIED BY: AR. CHERRY L. FABIANES <small>DIRECTOR, FDMO</small>	RECOMMENDING APPROVAL: DR. GRACE N. ROSETE <small>VP FOR ADMINISTRATION</small>	APPROVED: DR. ARNOLD E. VELASCO <small>PRESIDENT</small>	SHEET CONTENTS: AS SHOWN	SHEET NO: M- 01
	PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								PAGE NO: 72 / 75

LEGENDS & SYMBOLS:

-  - AC INDOOR UNIT (FCU)
-  - AC OUTDOOR UNIT (ACCU)
-  - COPPER PIPE INSULATION



TYPICAL SPLIT TYPE AIR CONDITIONING UNIT
SCALE: NTS



CONDENSER UNIT BRACKET DETAIL
SCALE: NTS



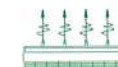
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PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMO	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMO	AR. CHERRY L. FABIANES DIRECTOR, FDMO	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	M-02
								DATE: MARCH 2023	PAGE NO: 73 / 75

NOTE:

INDIRECT WASTE PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF 3/4 INCH Ø PVC (BLUE) AND MUST BE CONCEALED ON FLOOR AND WALL.

LEGENDS & SYMBOLS:



- AC INDOOR UNIT (FCU)



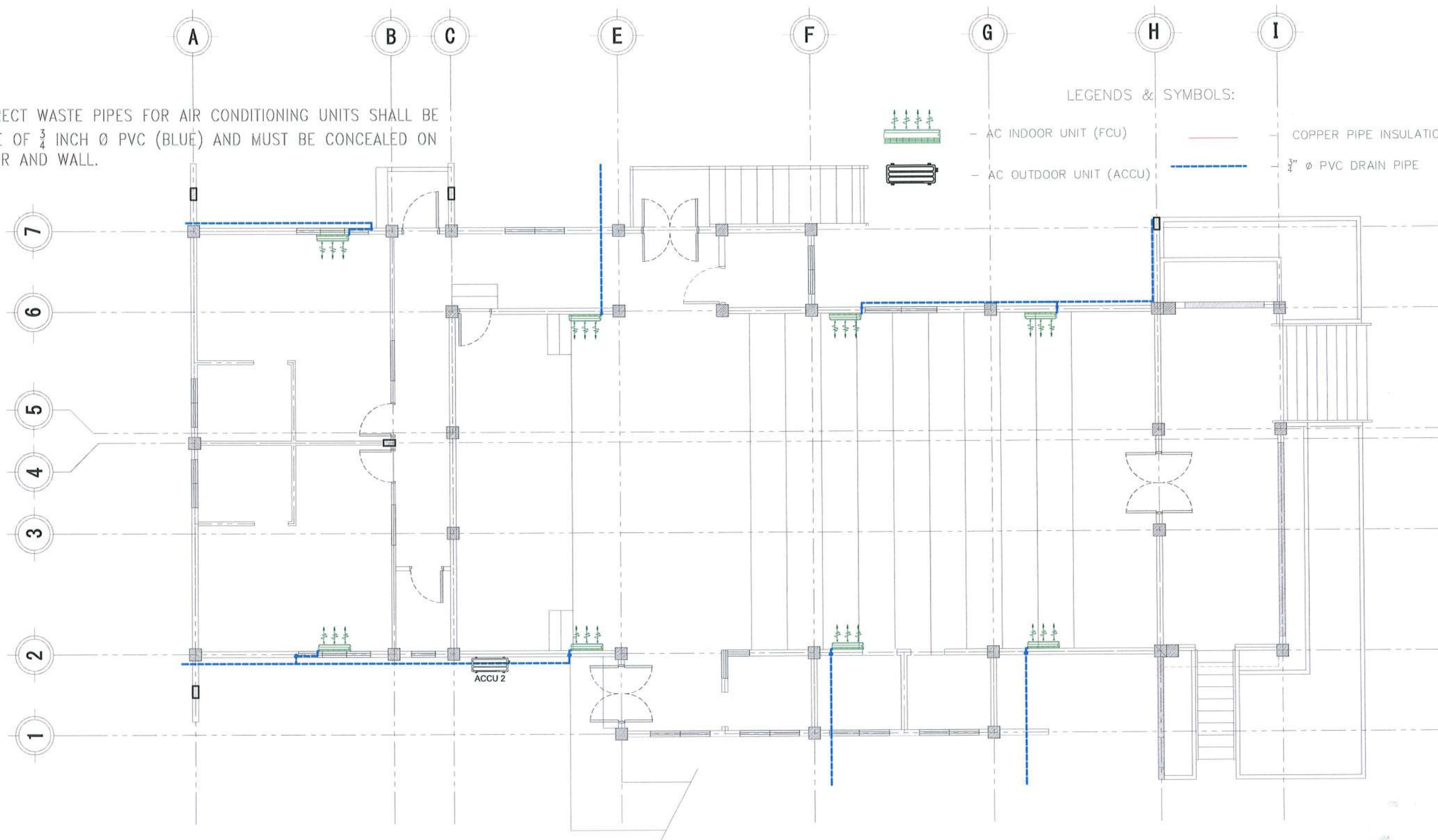
- AC OUTDOOR UNIT (ACCU)



- COPPER PIPE INSULATION



- 3/4" Ø PVC DRAIN PIPE

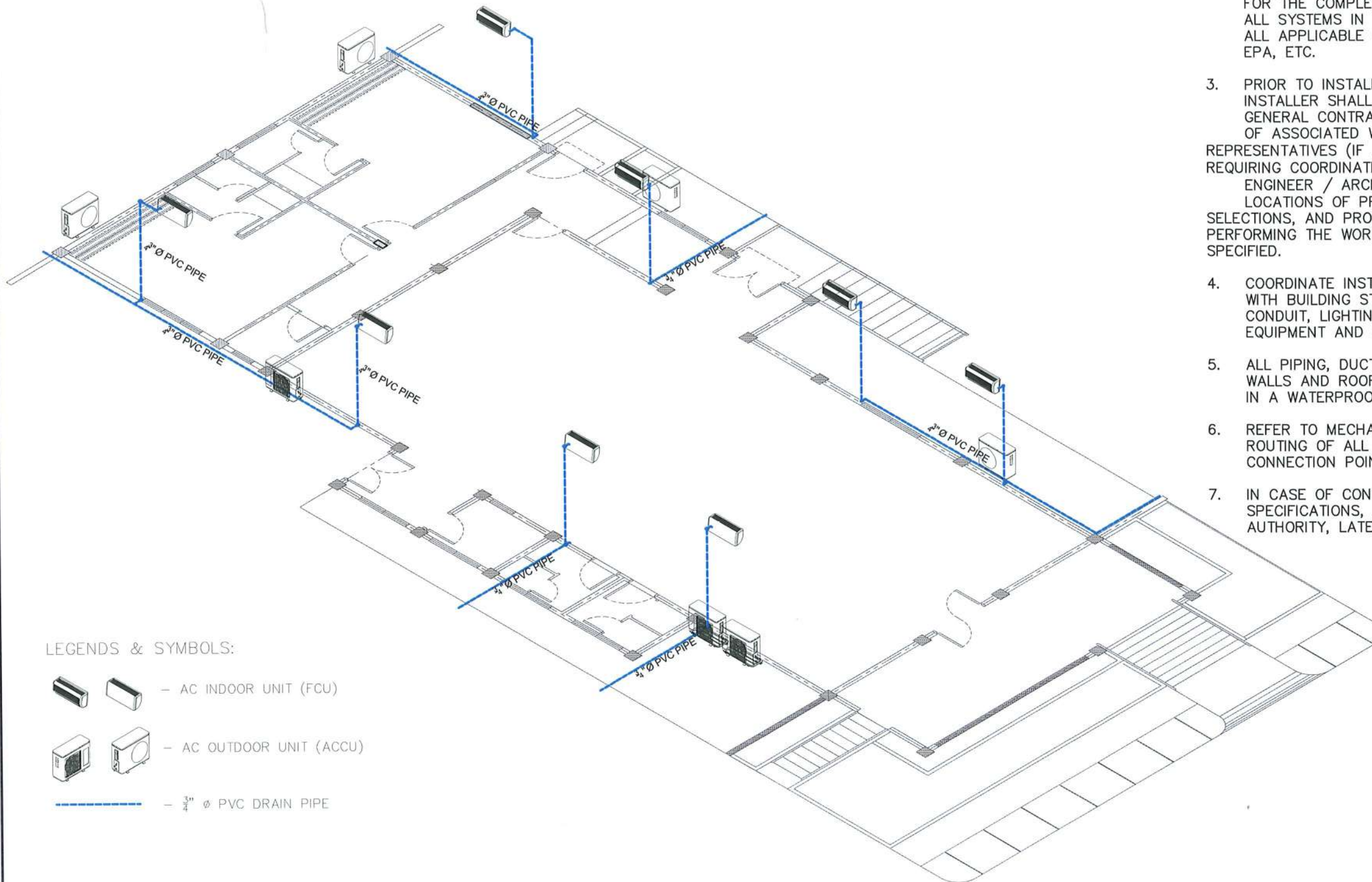


INDIRECT WASTE PIPES LAYOUT
SCALE: 1:100M

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	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: MARCH 2023	PAGE NO: 74 / 75

NOTE:

INDIRECT WASTE PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF $\frac{3}{4}$ INCH \varnothing PVC (BLUE) AND MUST BE CONCEALED ON FLOOR AND WALL.



LEGENDS & SYMBOLS:


-  - AC INDOOR UNIT (FCU)
-  - AC OUTDOOR UNIT (ACCU)
-  - $\frac{3}{4}$ \varnothing PVC DRAIN PIPE

GENERAL NOTES

1. PIPING ROUTING IS SHOWN IN SCHEMATIC DIAGRAM. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
2. FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ASHRAE, SMACNA, NFPA, EPA, ETC.
3. PRIOR TO INSTALLATION OF ASSOCIATED WORK; INSTALLER SHALL MEET AT PROJECT SITE WITH GENERAL CONTRACTOR, INSTALLER OF EACH COMPONENT OF ASSOCIATED WORK, INSPECTION AND TESTING AGENCY REPRESENTATIVES (IF ANY), INSTALLERS OF OTHER WORK REQUIRING COORDINATION WITH WORK OF THIS SECTION AND ENGINEER / ARCHITECT FOR PURPOSE OF COORDINATING LOCATIONS OF PROPOSED SYSTEMS, REVIEWING MATERIAL SELECTIONS, AND PROCEDURES TO BE FOLLOWED IN PERFORMING THE WORK IN COMPLIANCE WITH REQUIREMENTS SPECIFIED.
4. COORDINATE INSTALLATION AND LOCATIONS OF PIPING WITH BUILDING STRUCTURE, PLUMBING PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC. PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND MATERIALS.
5. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER.
6. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND ROUTING OF ALL CONDENSATE AND DRAIN LINE CONNECTION POINTS.
7. IN CASE OF CONFLICTS BETWEEN DRAWINGS, SPECIFICATIONS, AND INTERPRETATION OF CODES BY LOCAL AUTHORITY, LATER SHALL GOVERN.

INDIRECT WASTE PIPES ISOMETRIC DIAGRAM

SCALE: 1:250M

 <p>TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300</p>	PROJECT TITLE:	REQUESTING OFFICE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	REFURBISHMENT OF TSU AMPHITHEATER							AS SHOWN	M-04
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DR. JASPER JAY N. MENDOZA DEAN, CTED	AR. ULYSSES B. CALUYA ARCHITECT, FDMQ	AR. ARLEN M. GUIEB PLANNING UNIT HEAD, FDMQ	AR. CHERRY L. FABIANES DIRECTOR, FDMQ	DR. GRACE N. ROSETE VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: MARCH 2023	75 / 75