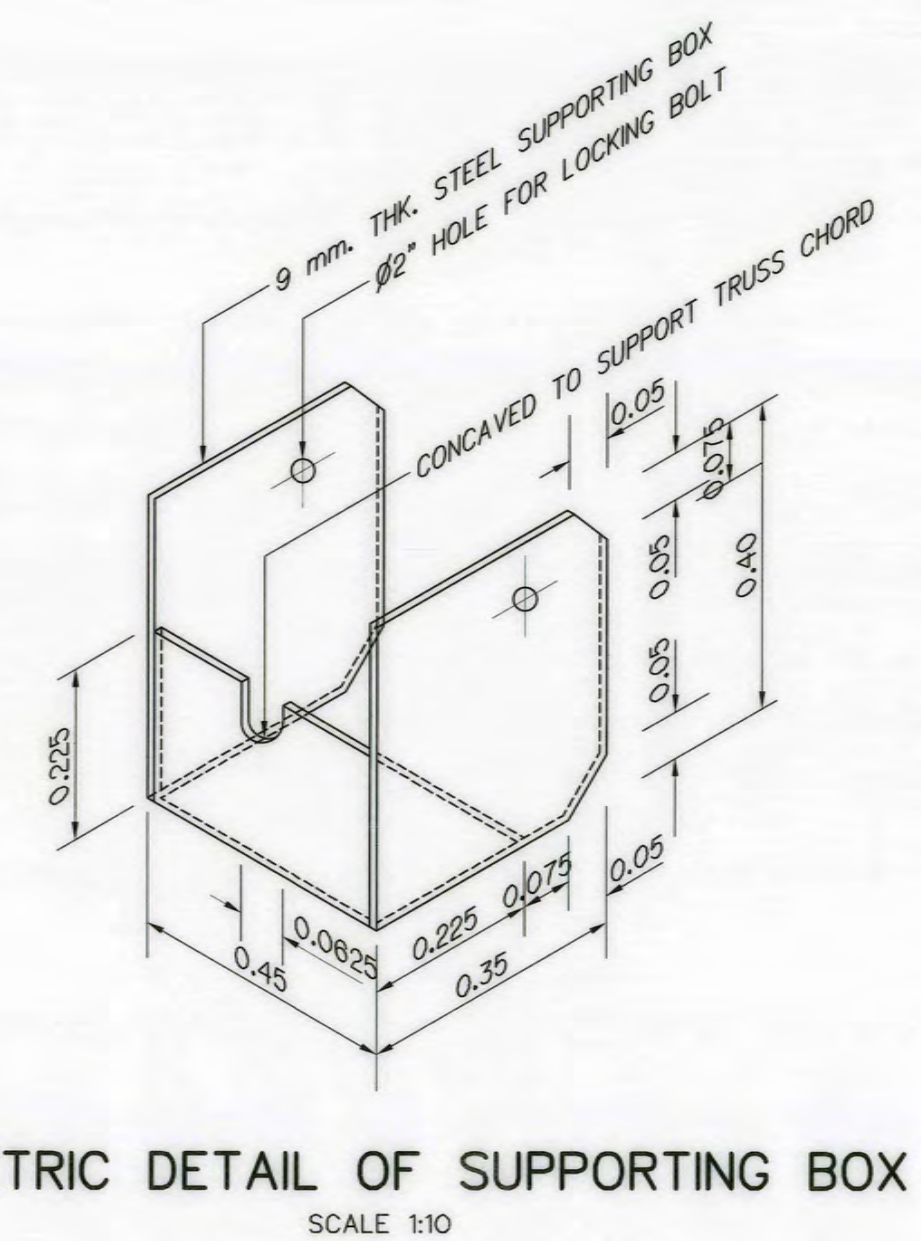
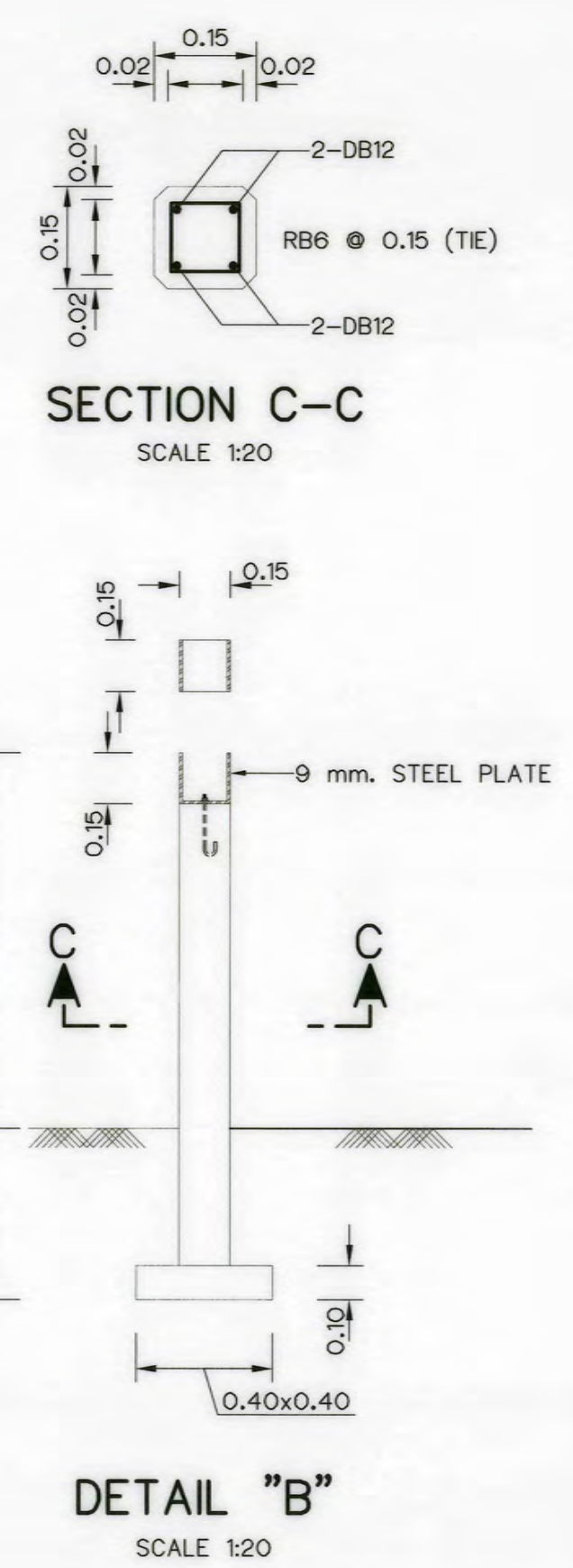
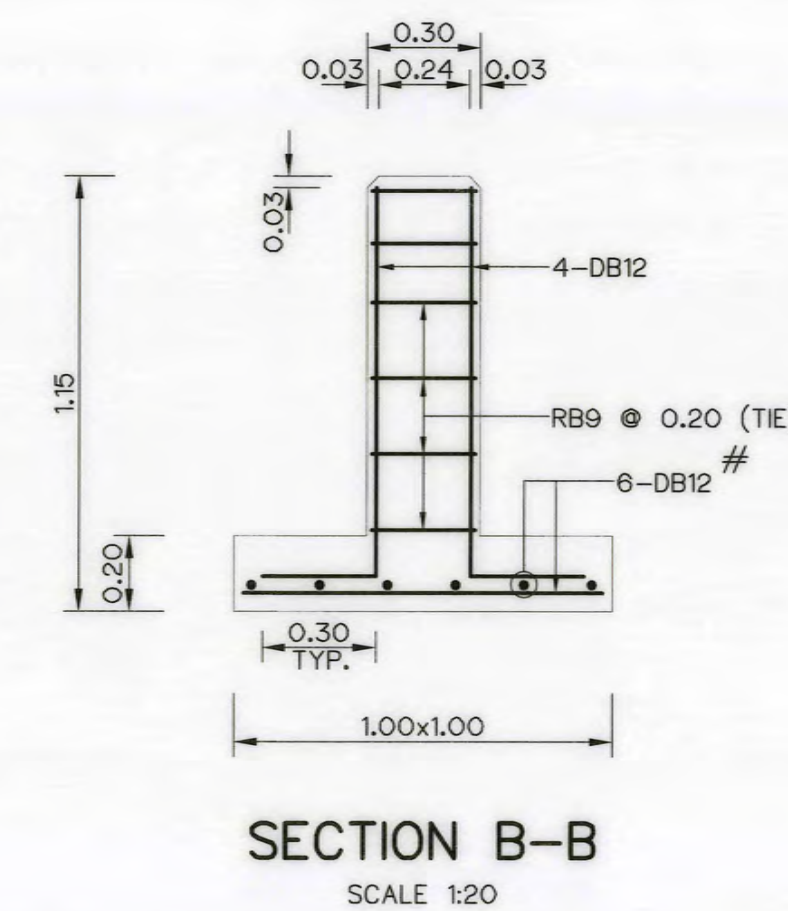
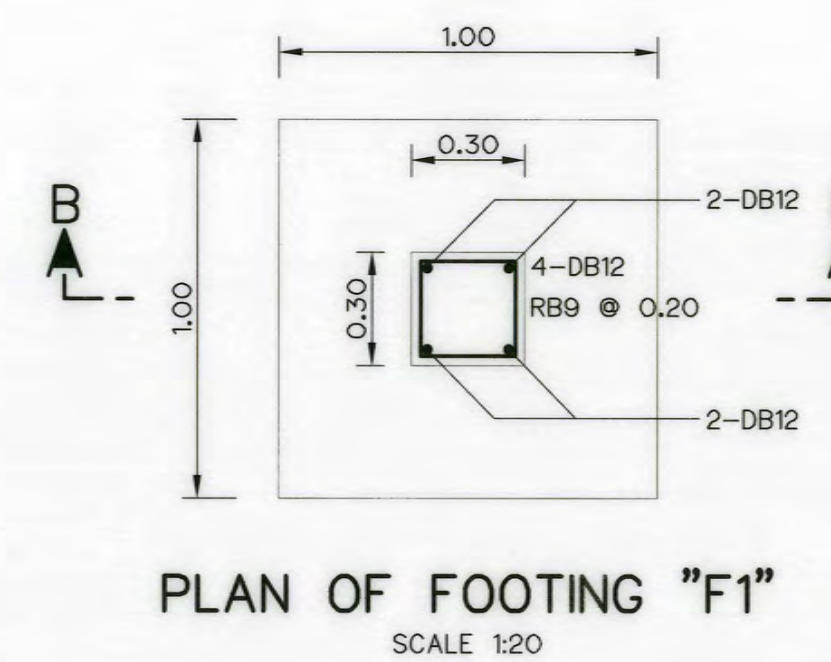
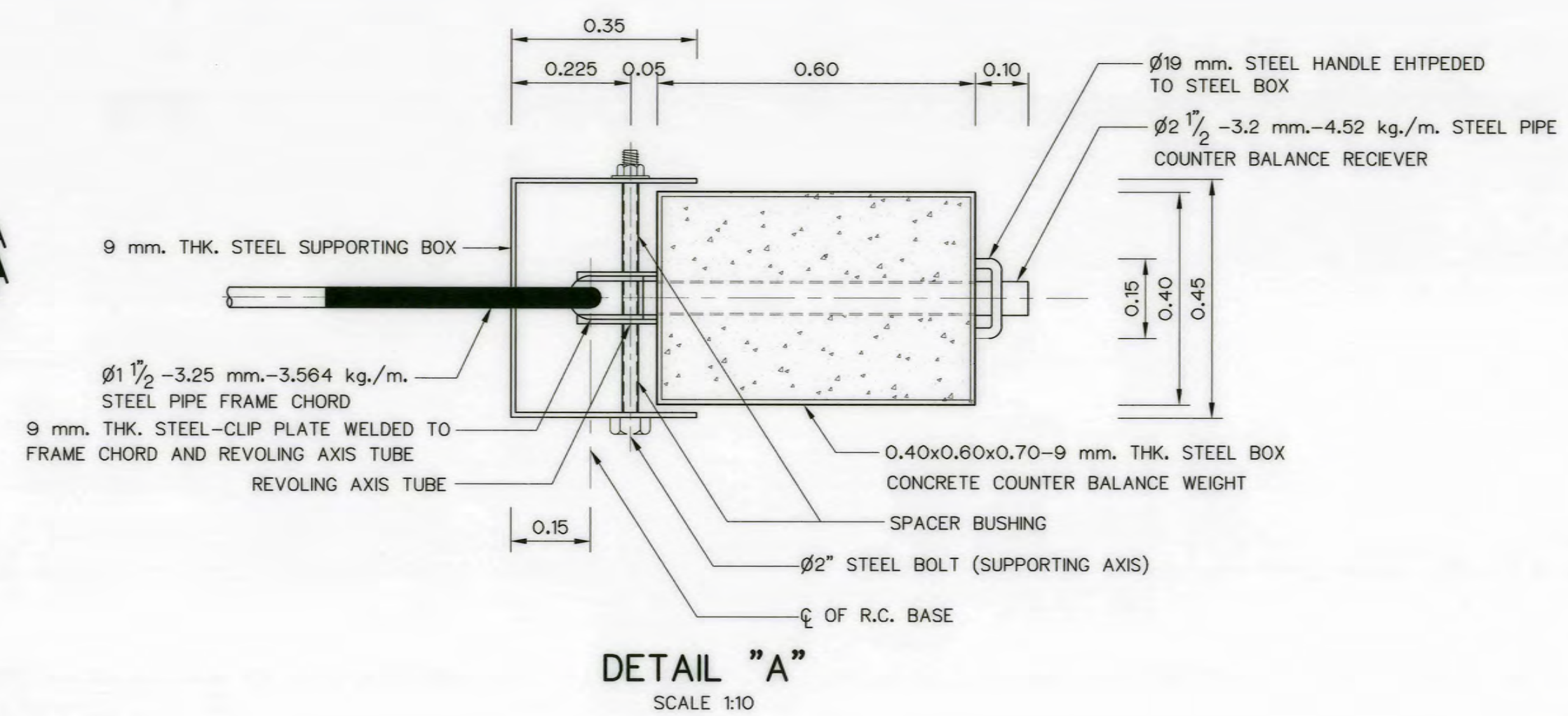
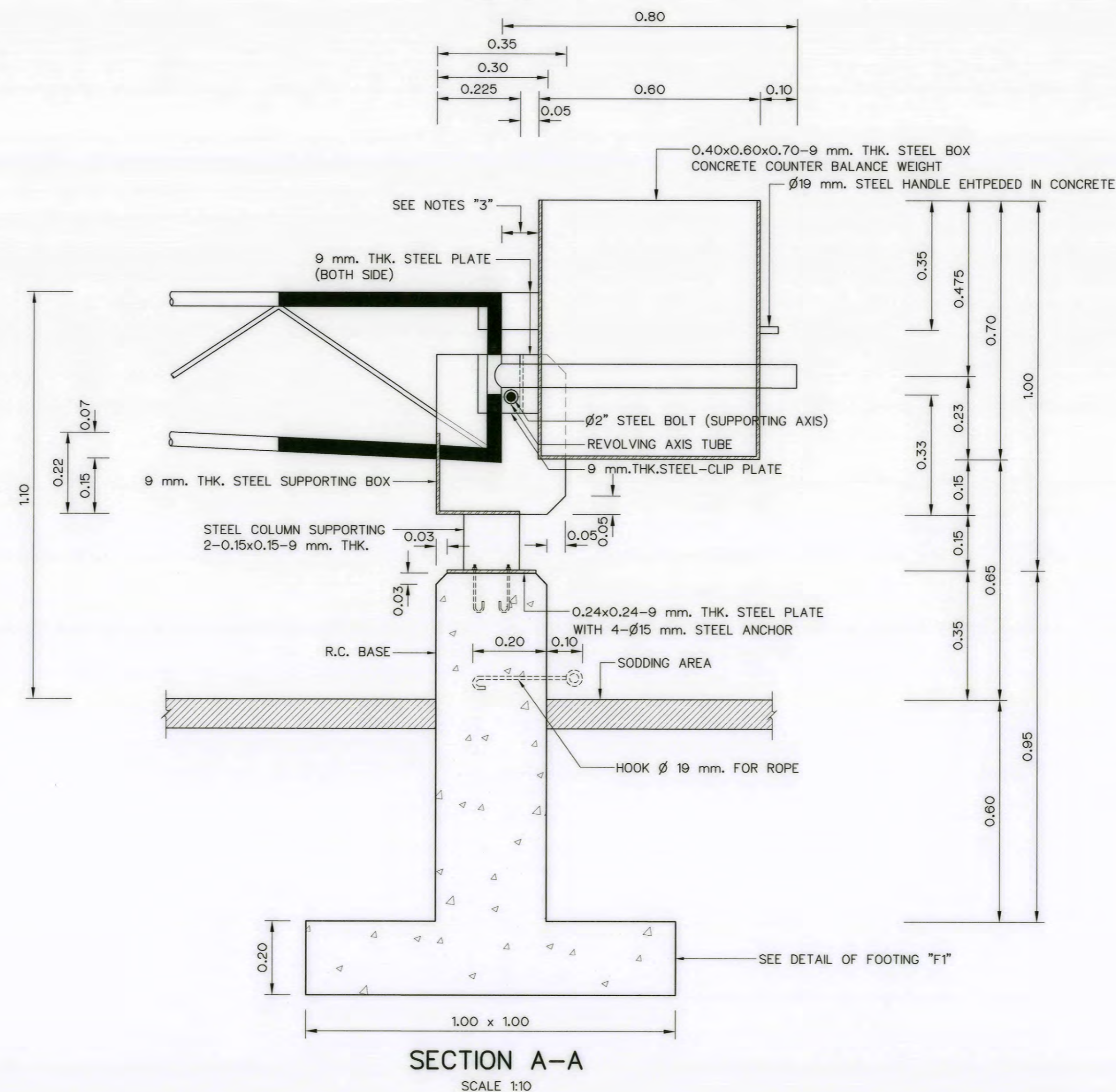
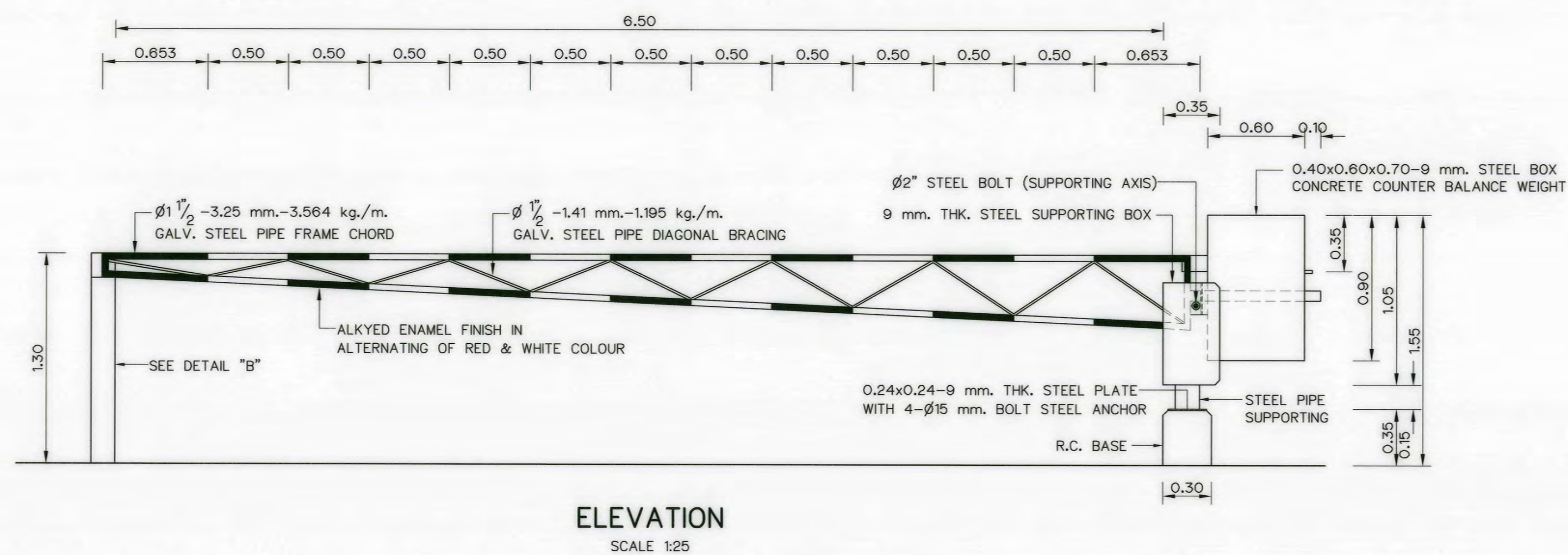
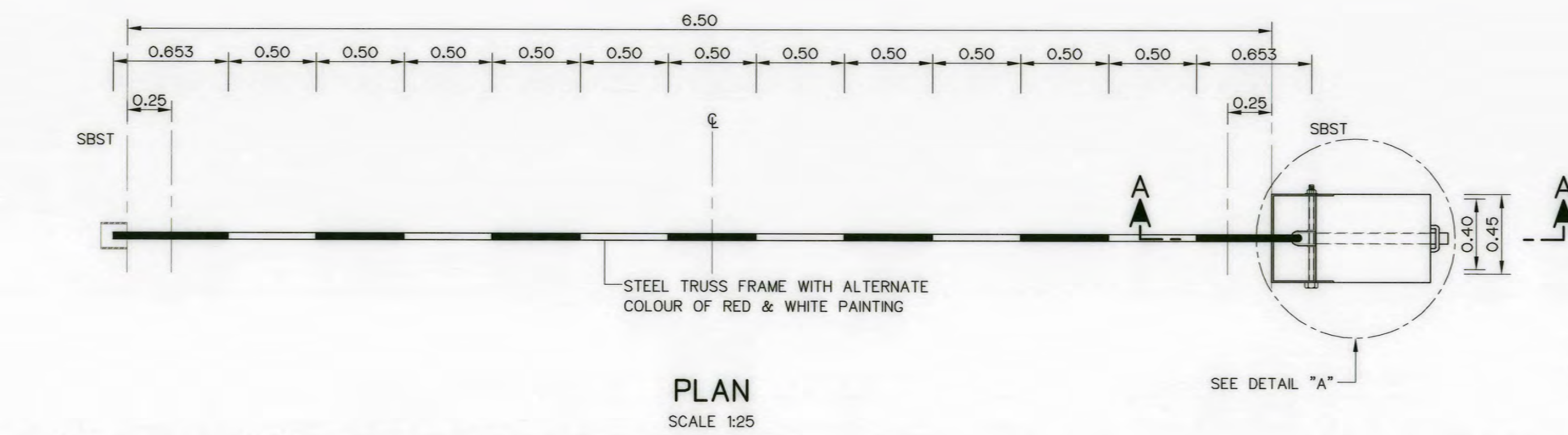
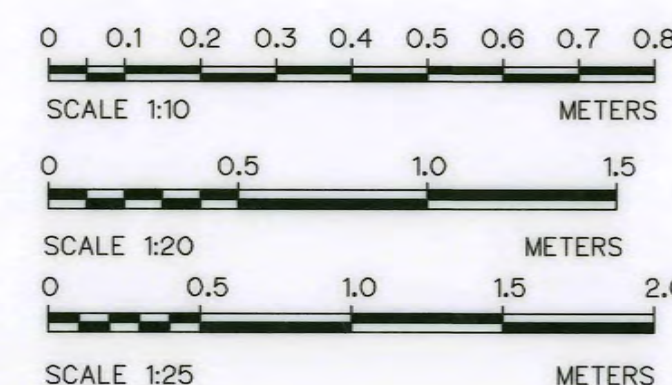




- NOTES :
1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. REINFORCING BARS ARE IN MILLIMETERS.
 3. DISTANCE BETWEEN CONCRETE COUNTER BALANCE WEIGHT AND FRAME CHORD SHALL BE ADJUSTED BY CONTRACTOR.

REFERENCE DRAWINGS :

1. POWERHOUSE, GENERAL LAYOUT



3				
2				
1				
NO.	DATE	REVISIONS	CHECKED	APPROVED

CONSULTANTS

DEDE

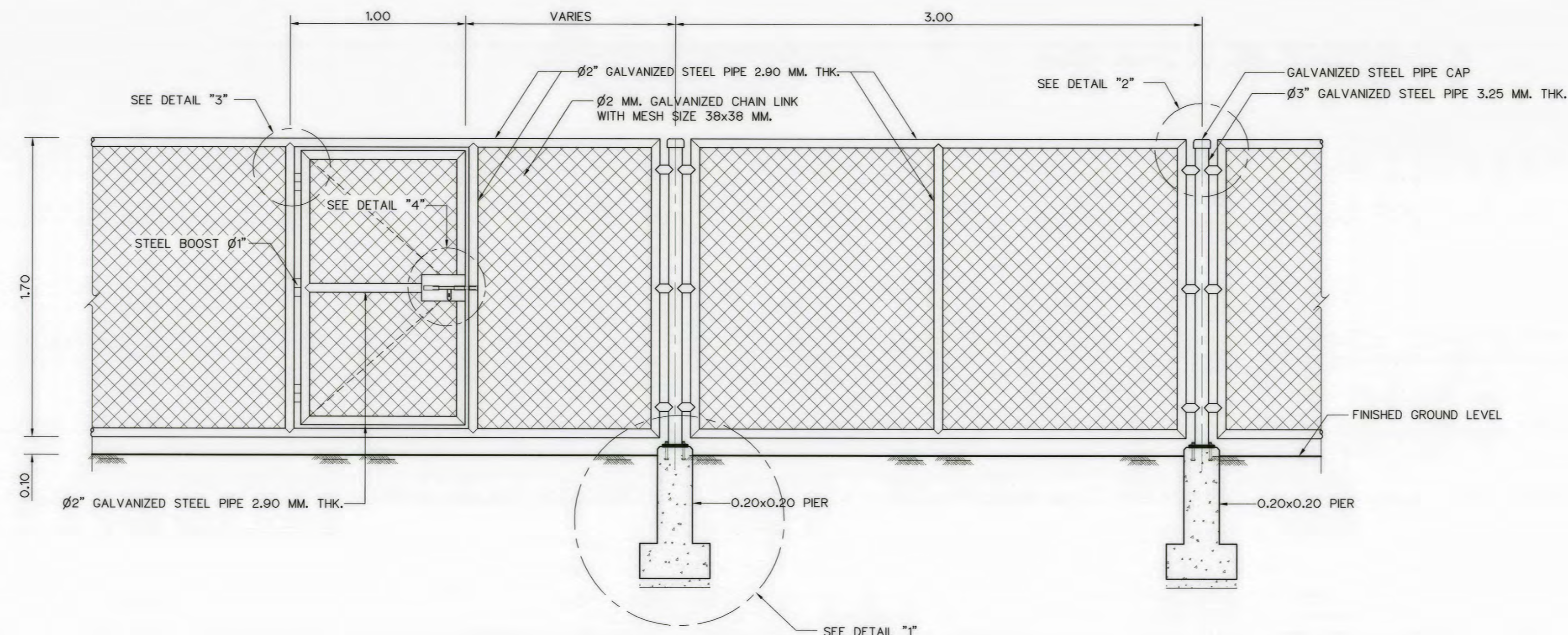
KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY	
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT	
PART : 1 CIVIL WORKS AND TRANSMISSION LINE POWERHOUSE MOVABLE STEEL BARRICADE	
P&C MANAGEMENT CO., LTD. SPT CONSULTANTS CO., LTD.	Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY
DESIGNED	REVIEWED
DRAWN	RECOMMENDED
CHECKED	APPROVED
PROJECT MANAGER	SHEET NO.

DATE

28/10/2021

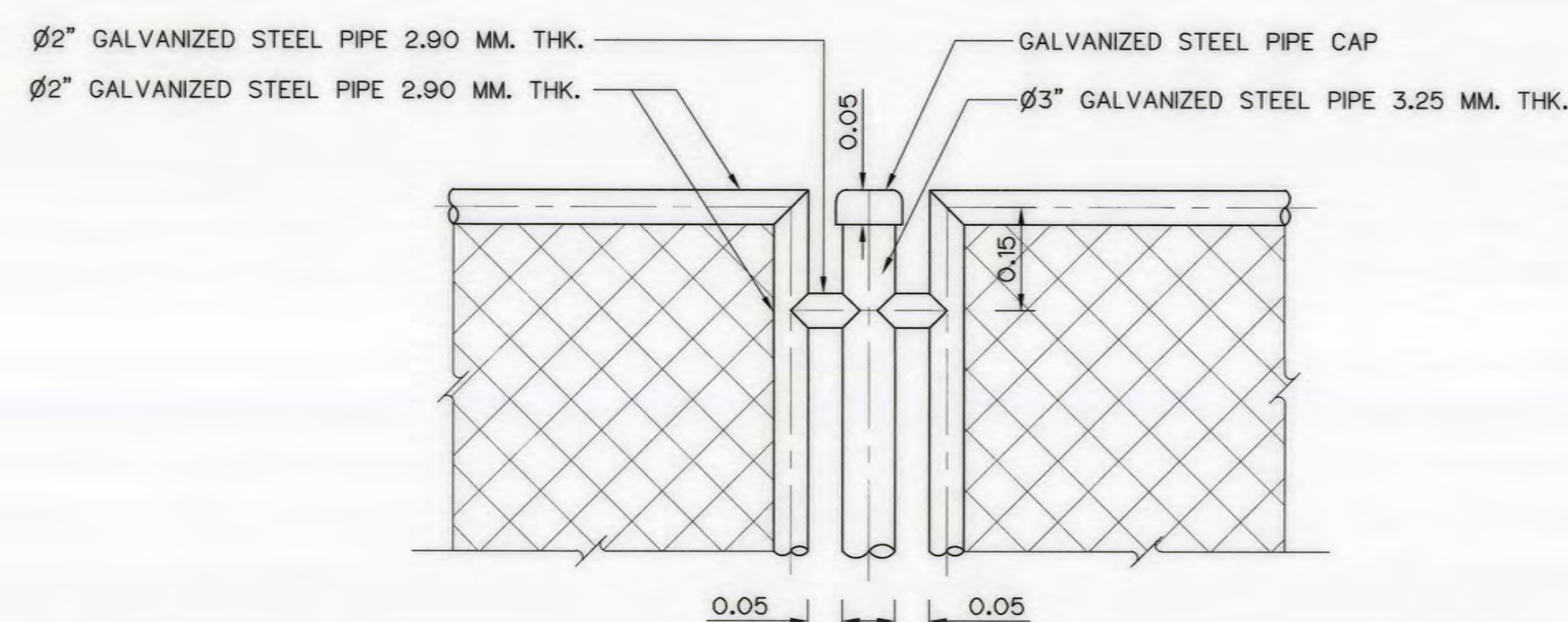
AKP-PH-16

78 OF 129



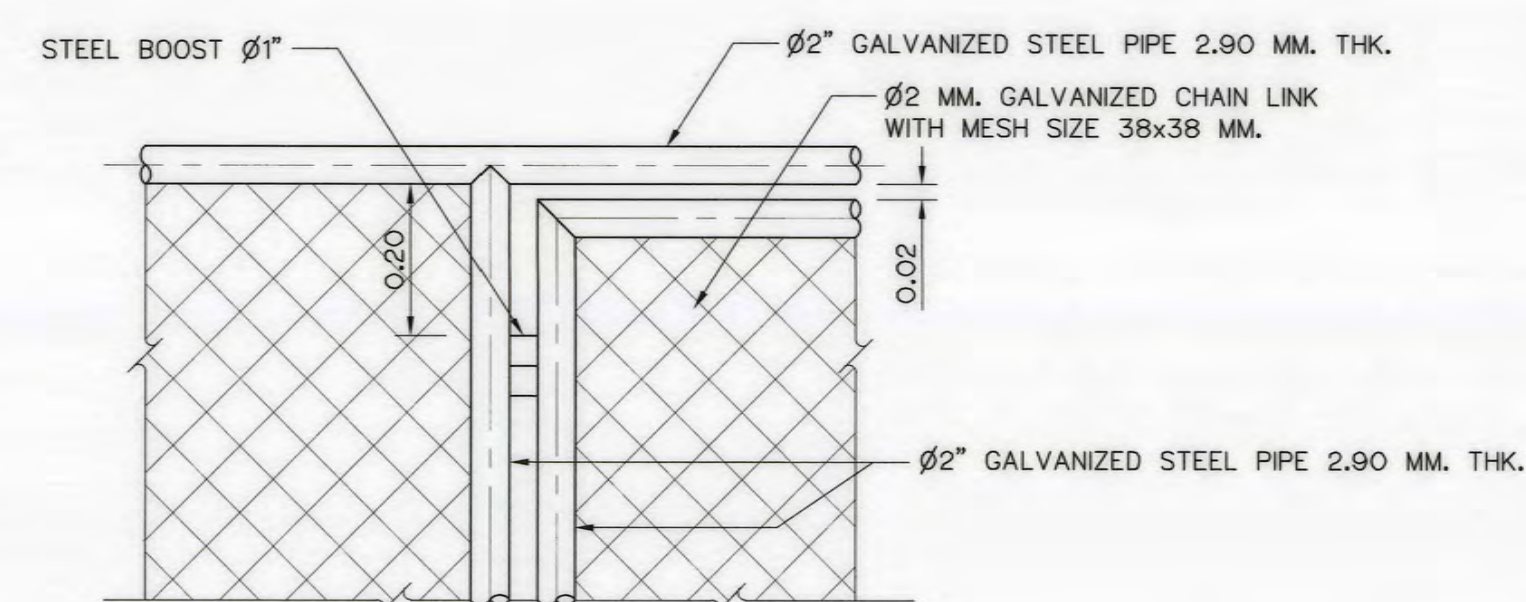
CHAIN LINK FENCE AND GATE WIDTH 1.00 M.

SCALE 1:20



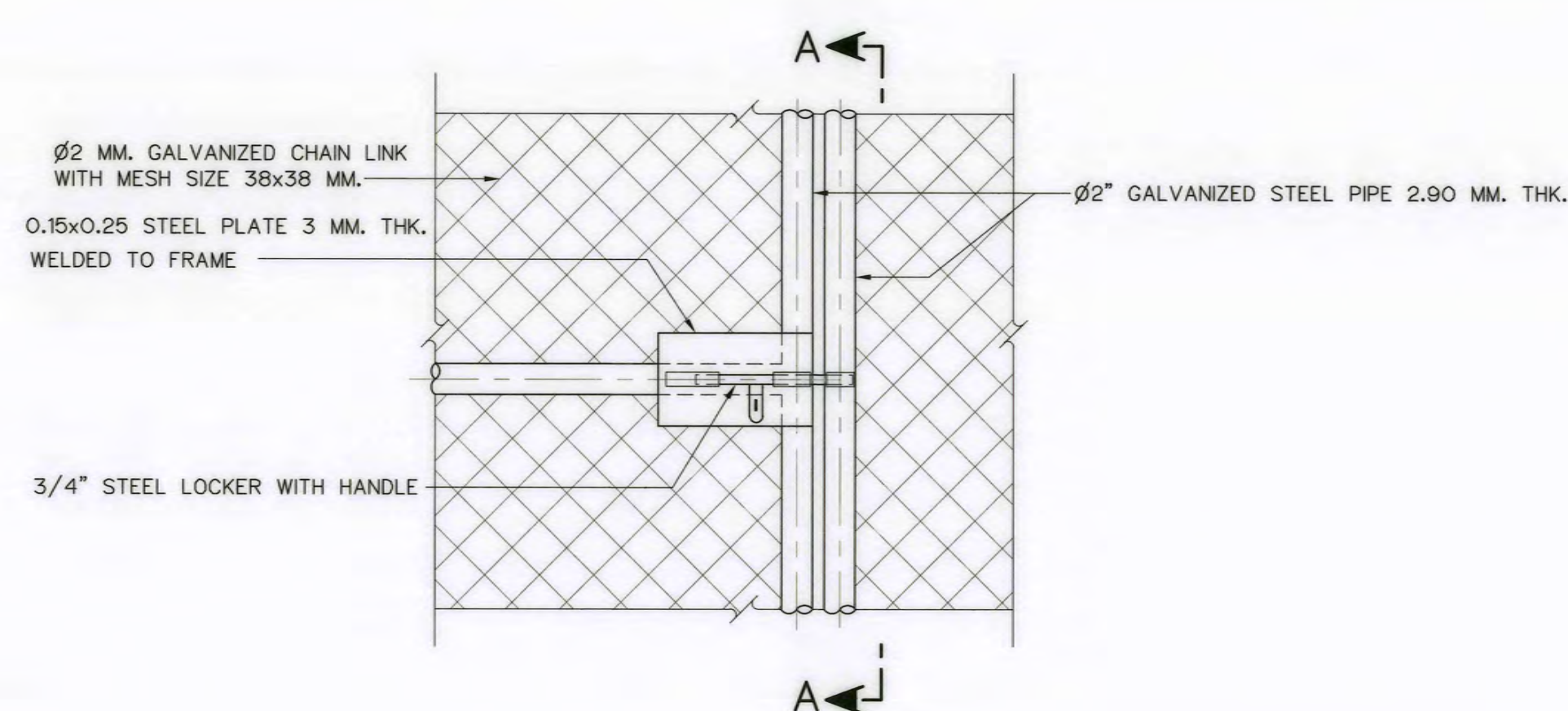
DETAIL "2"

SCALE 1:10



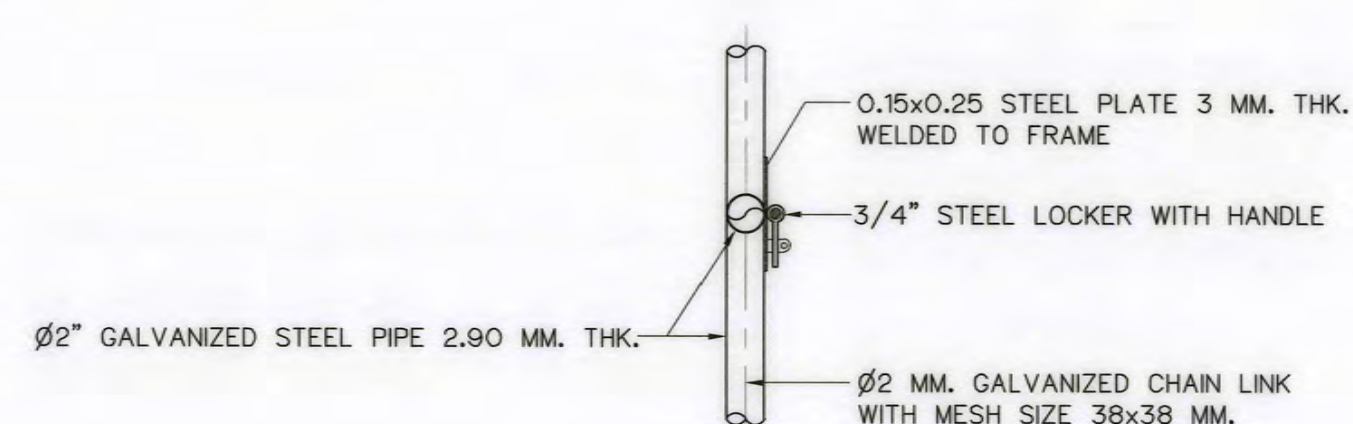
DETAIL "3"

SCALE 1:10



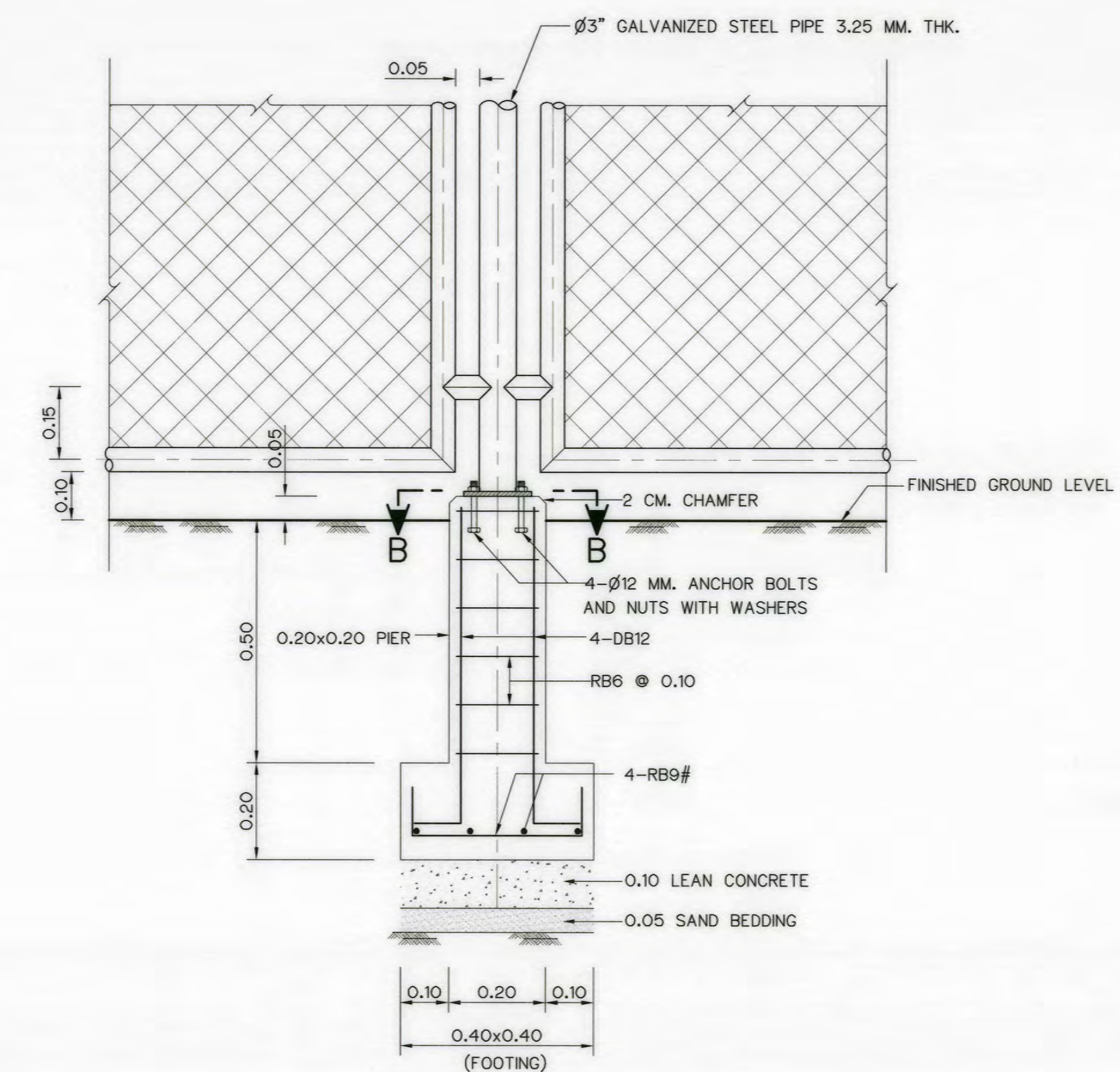
DETAIL "4"

SCALE 1:10



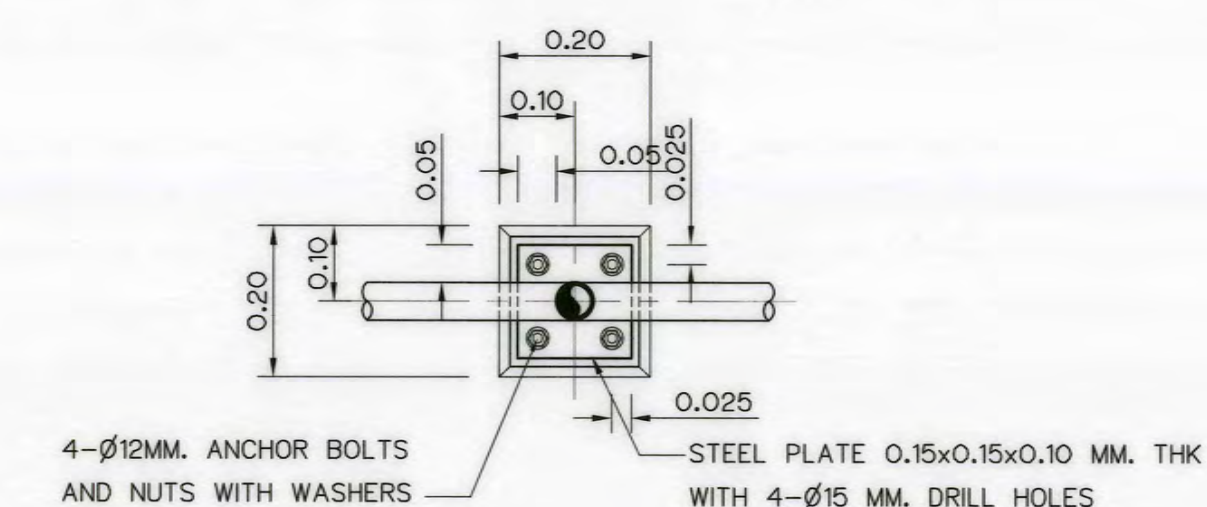
SECTION A-A

SCALE 1:10



DETAIL "1"

SCALE 1:10



SECTION B-B

SCALE 1:10

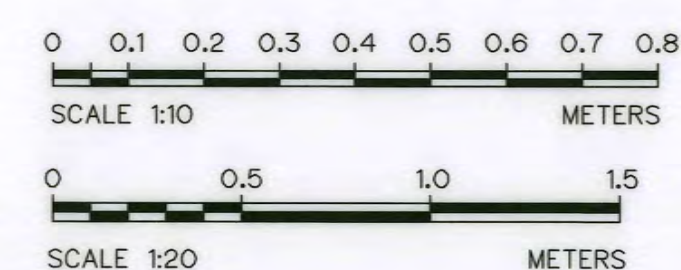
NOTES :

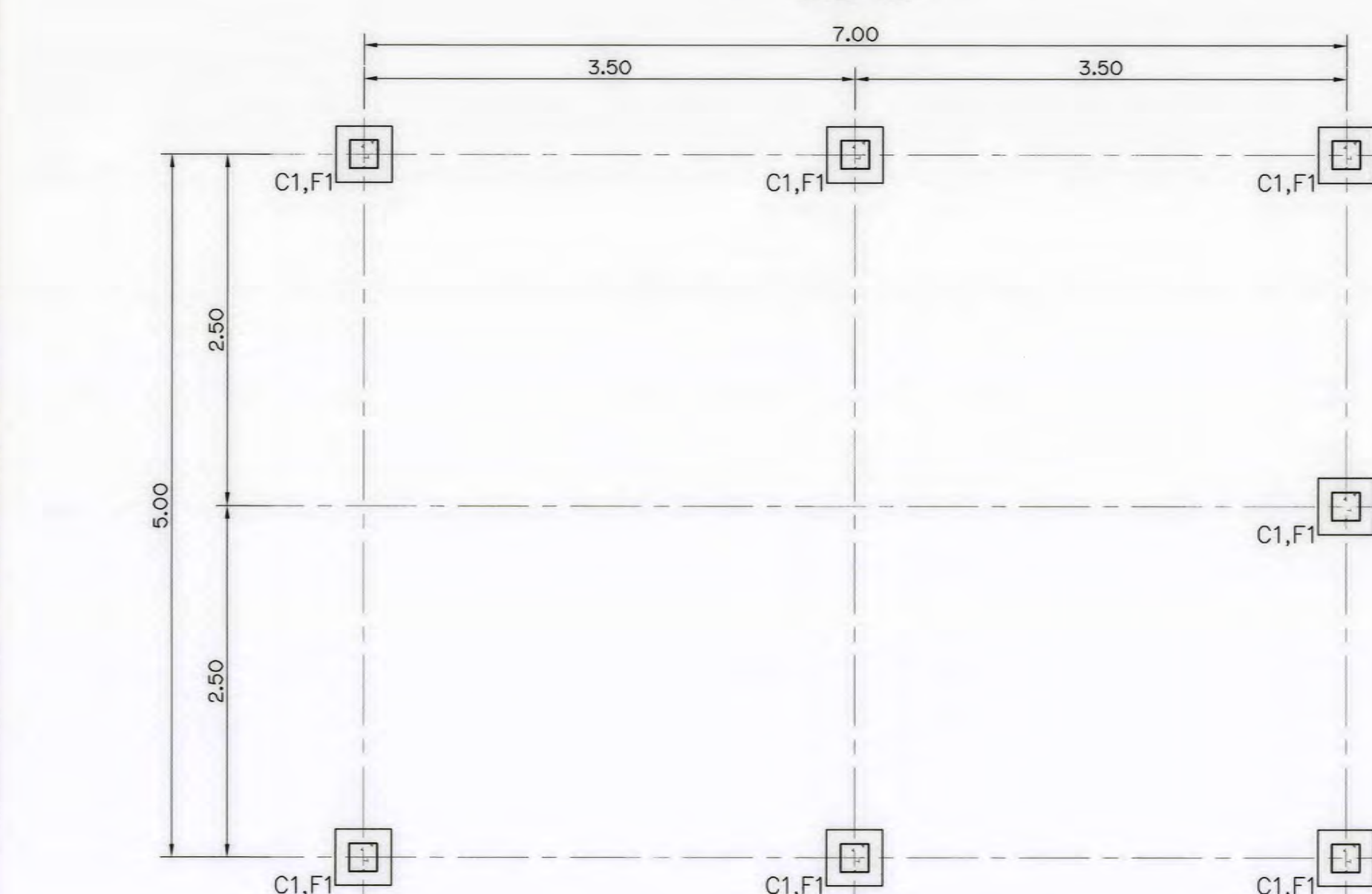
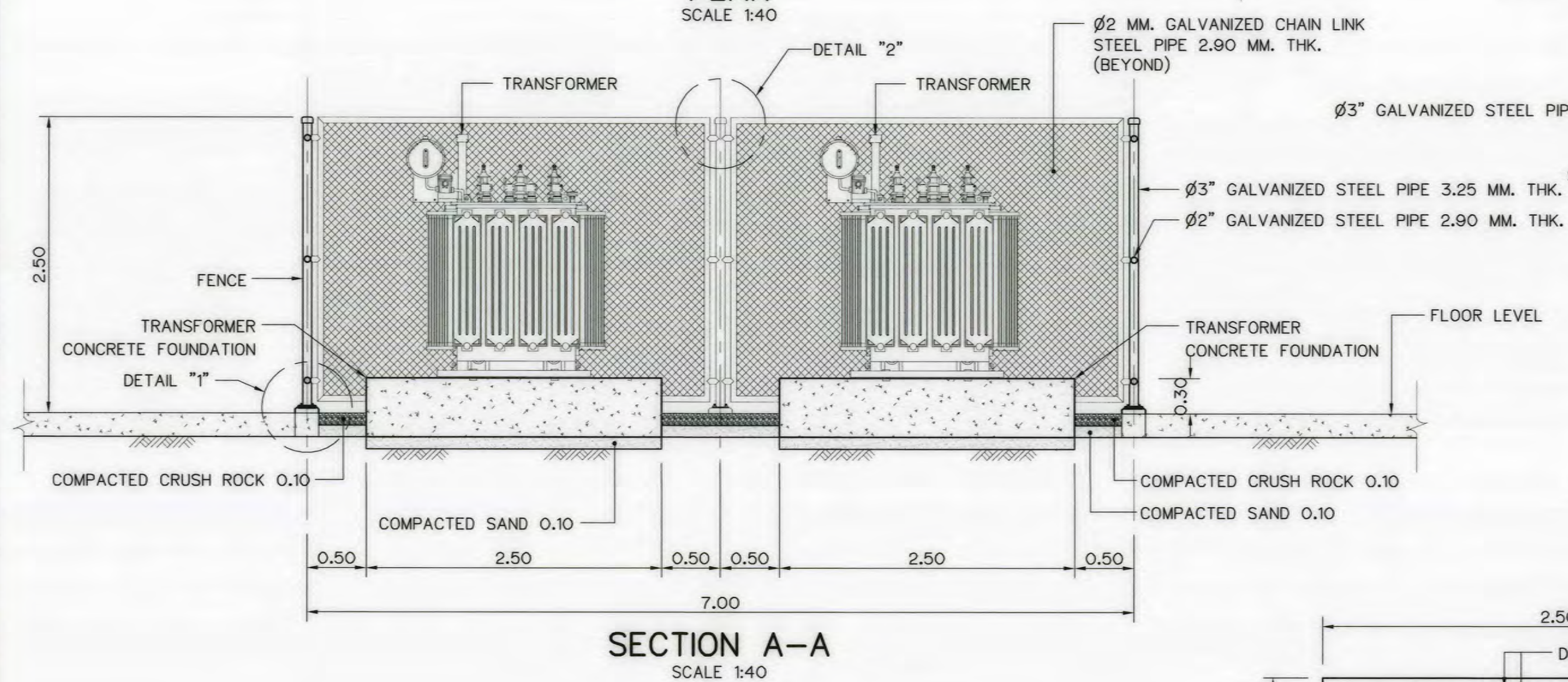
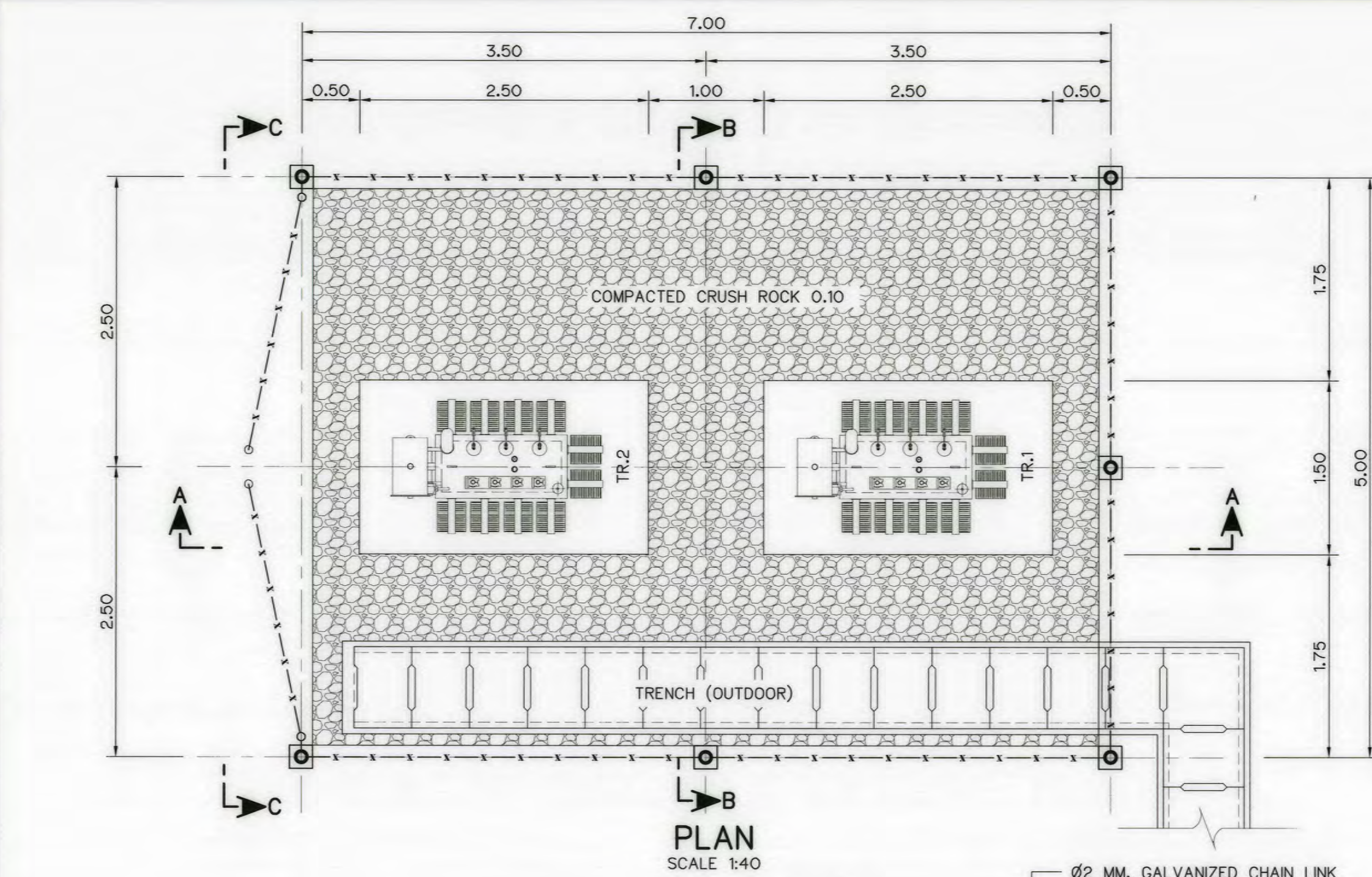
1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SHOWN.
2. CHAIN LINK SHALL GALVANIZED AS SPECIFIED BY TIS.208-2562.

REFERENCE DRAWINGS :

1. POWERHOUSE, GENERAL LAYOUT AKP-PH-01

KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY			
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT			
PART : 1 CIVIL WORKS AND TRANSMISSION LINE POWERHOUSE CHAIN LINK FENCE AND GATE WIDTH 1.00 M.			
PCM P&C MANAGEMENT CO., LTD. SPT CONSULTANTS CO., LTD.	DESIGNED <i>Wim</i> 28/29074 28/9462 DRAWN <i>Wim</i> CHECKED <i>Wim</i> 28/8231 PROJECT MANAGER DATE	REVIEWED <i>Wim</i> SUBMITTED <i>Wim</i> RECOMMENDED <i>Wim</i> APPROVED <i>Wim</i> 28/10/2021 DRAWING NO. SHEET NO.	AKP-PH-17 79 OF 129





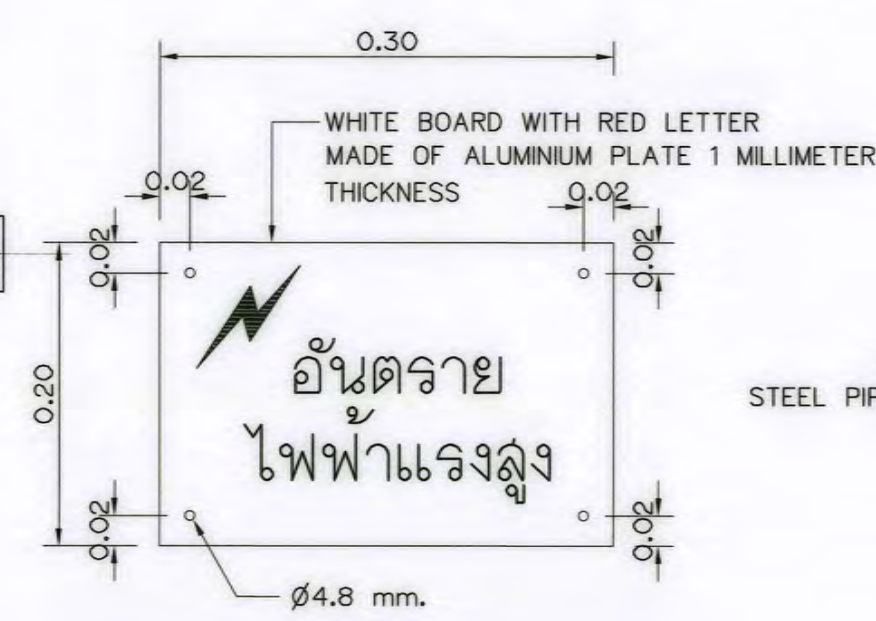
NOTES :

- ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
- SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. AKP-GN-03
- REINFORCEMENT BARS ARE IN MILLIMETRES, UNLESS OTHERWISE SHOWN.
- THE TRANSFORMER AREA WILL BE ACCORDING TO PEA STANDARD.

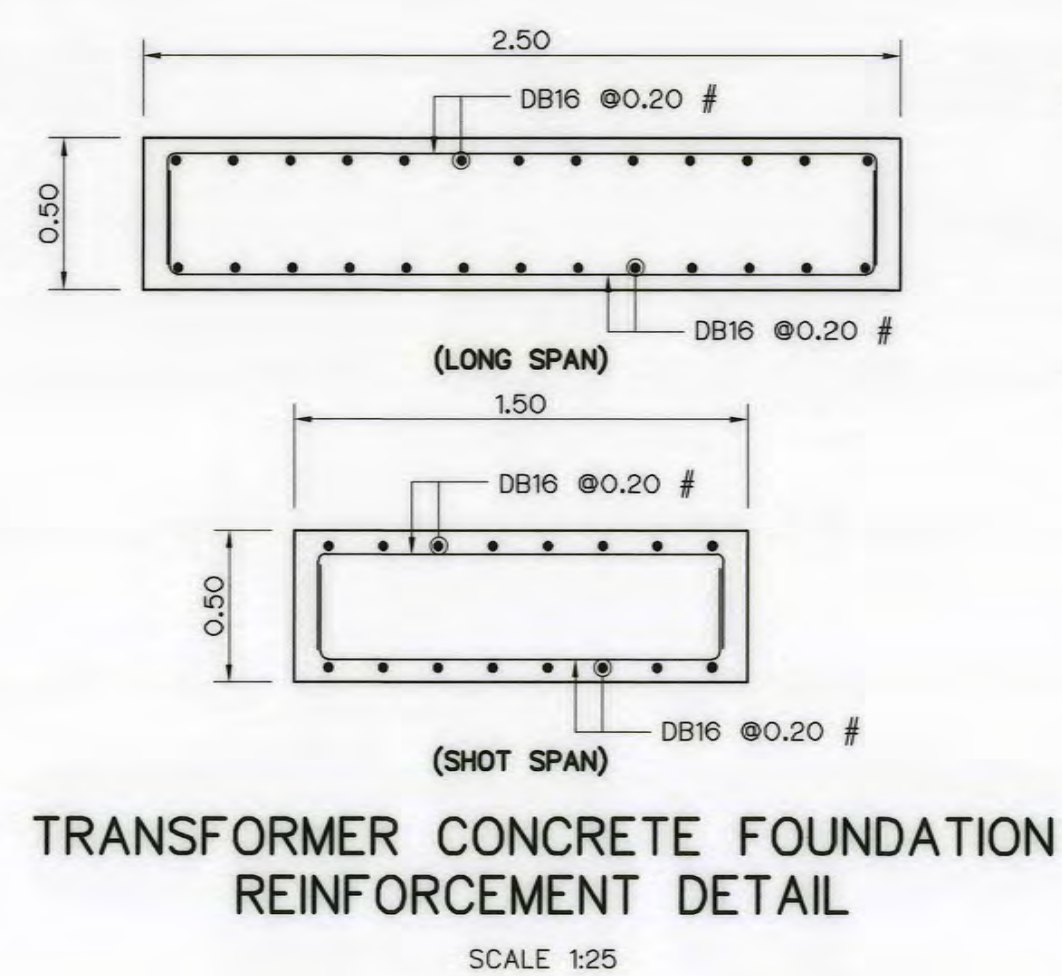
REFERENCE DRAWINGS :

- POWERHOUSE, GENERAL LAYOUT

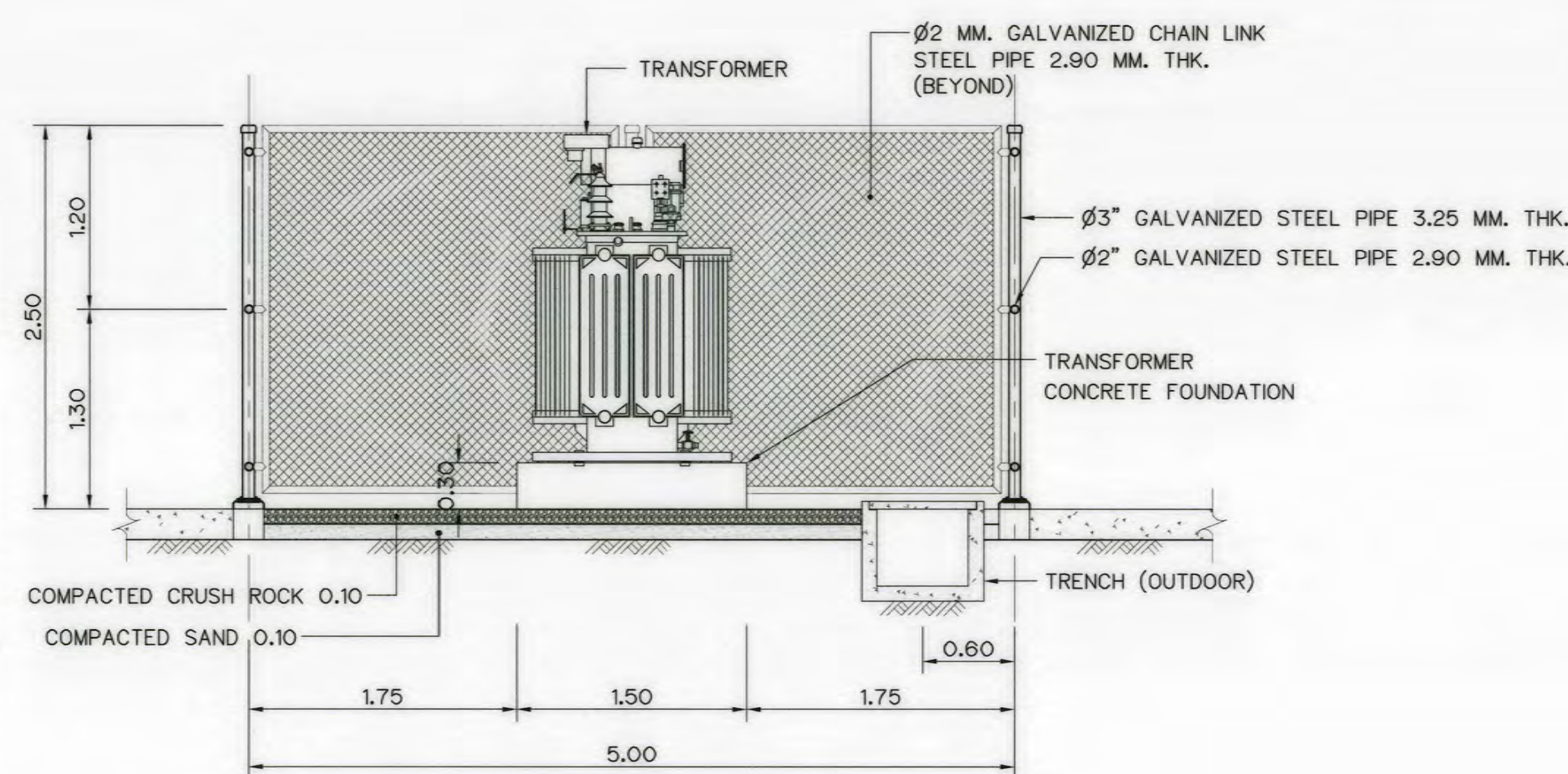
AKP-PH-01



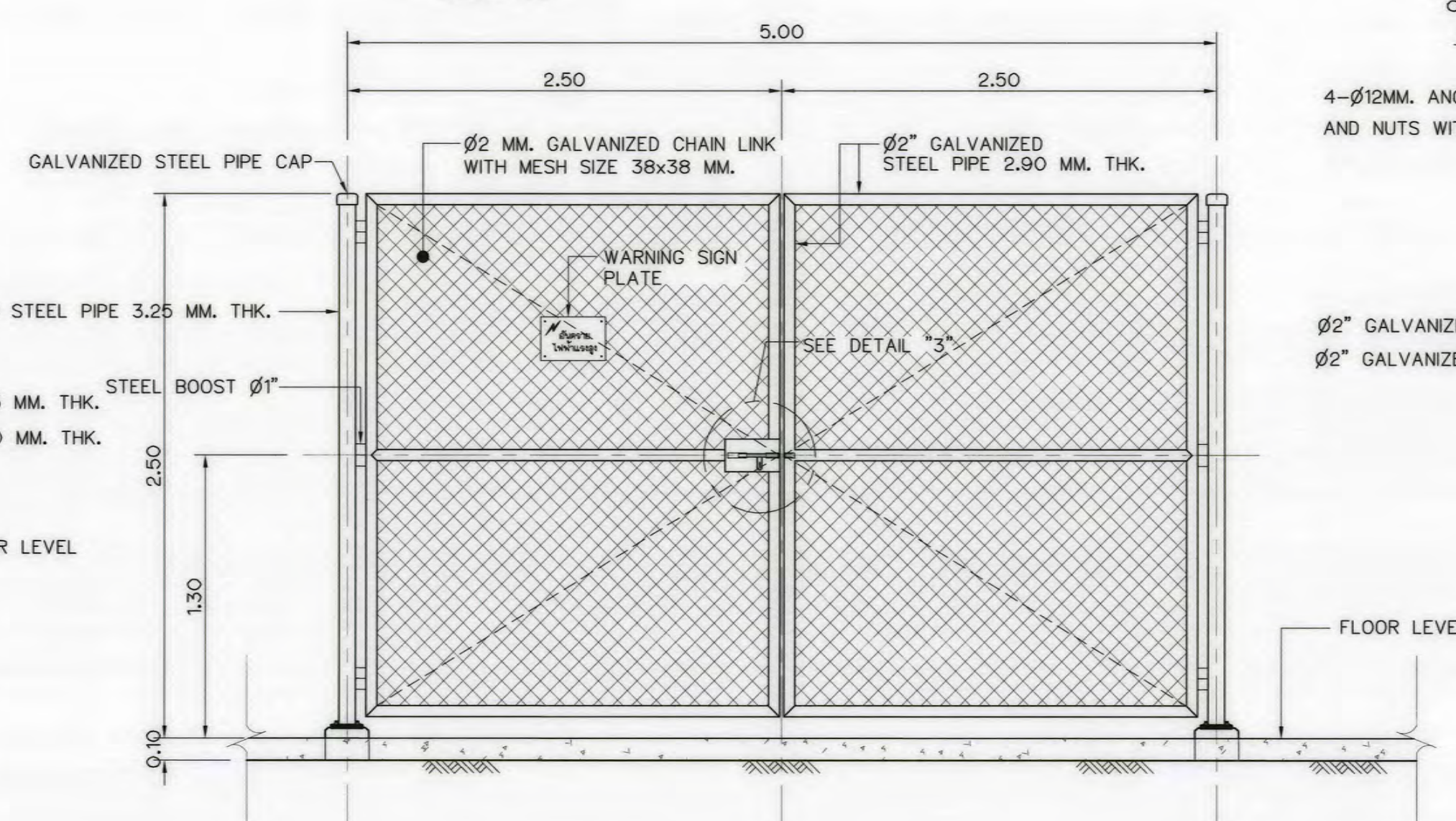
WARNING SIGN PLATE
SCALE 1:5



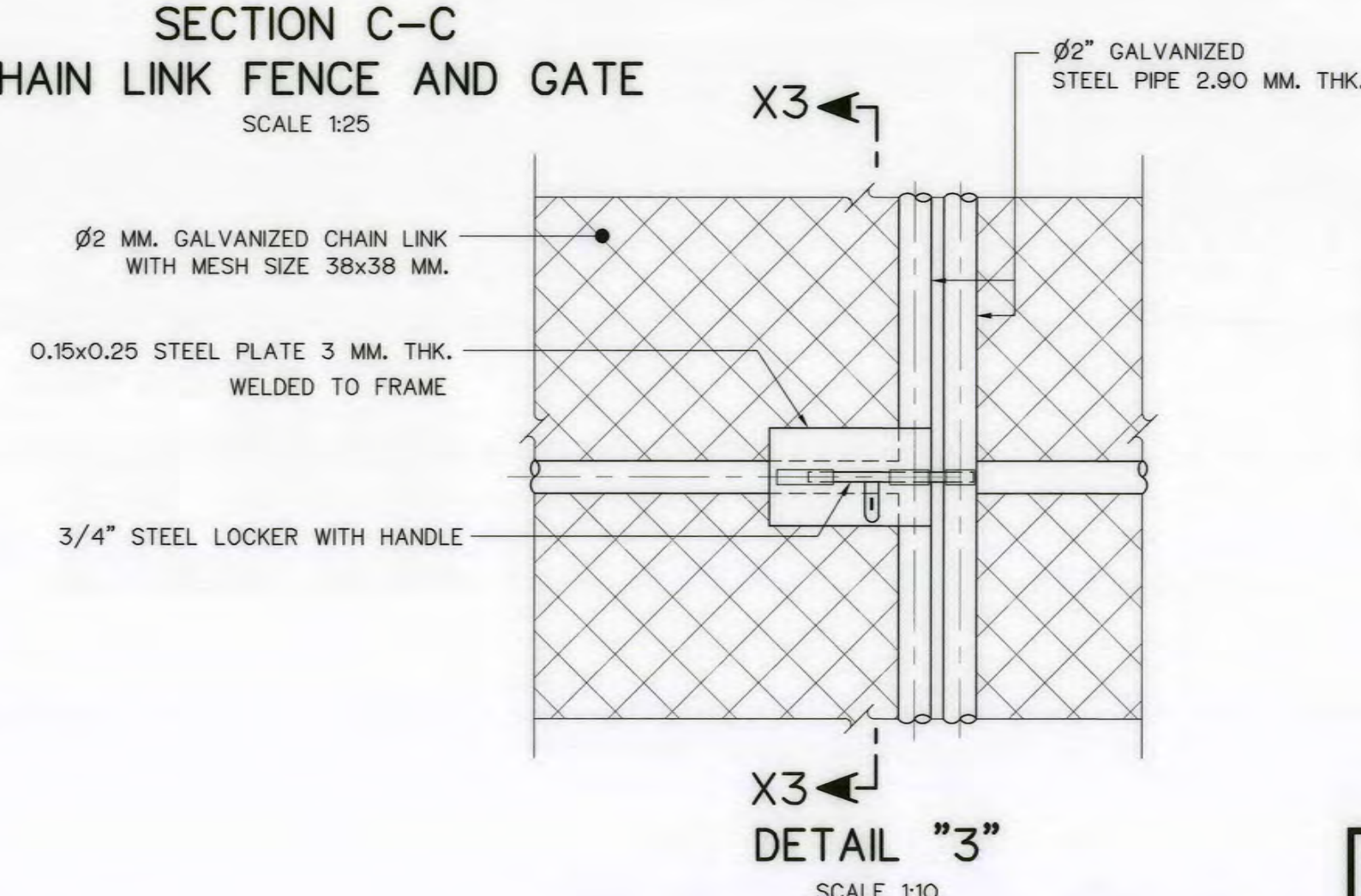
TRANSFORMER CONCRETE FOUNDATION
REINFORCEMENT DETAIL
SCALE 1:25



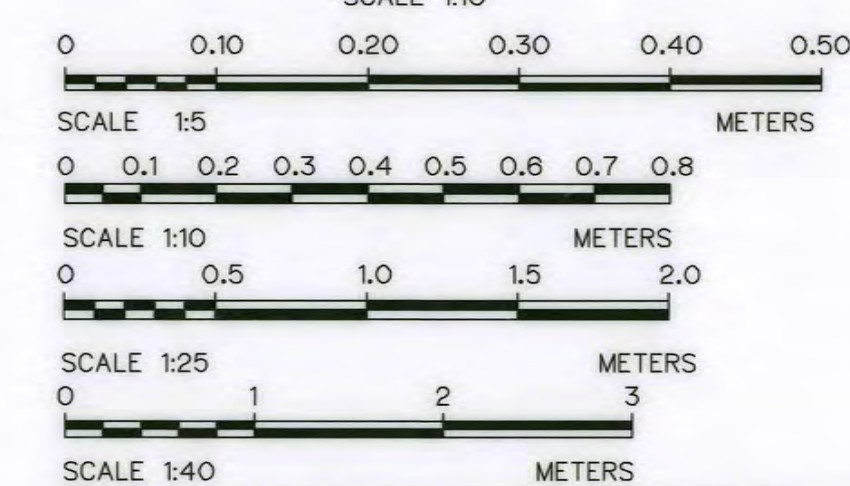
SECTION B-B
SCALE 1:40



SECTION C-C
CHAIN LINK FENCE AND GATE
SCALE 1:25



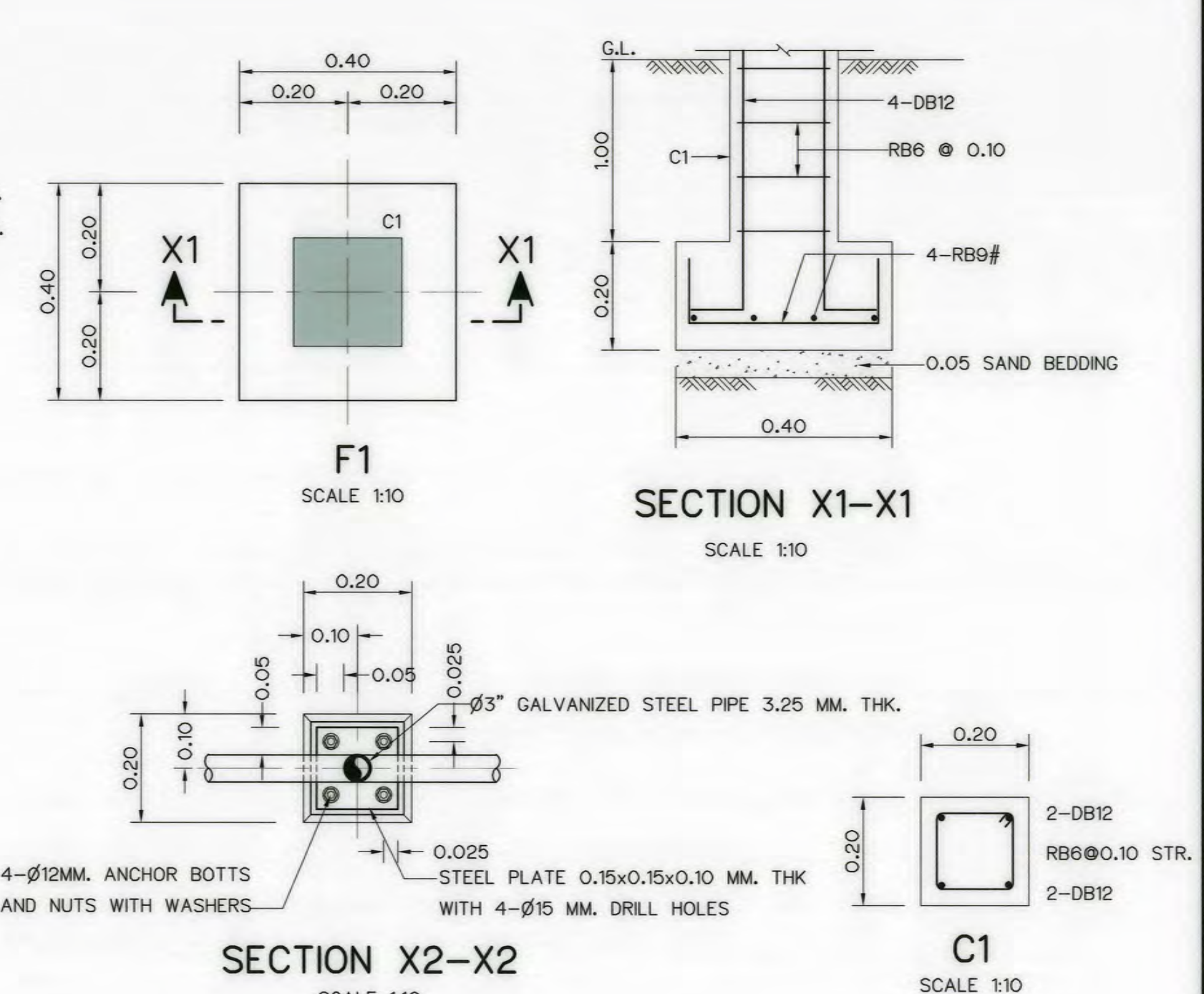
DETAIL "3"
SCALE 1:10



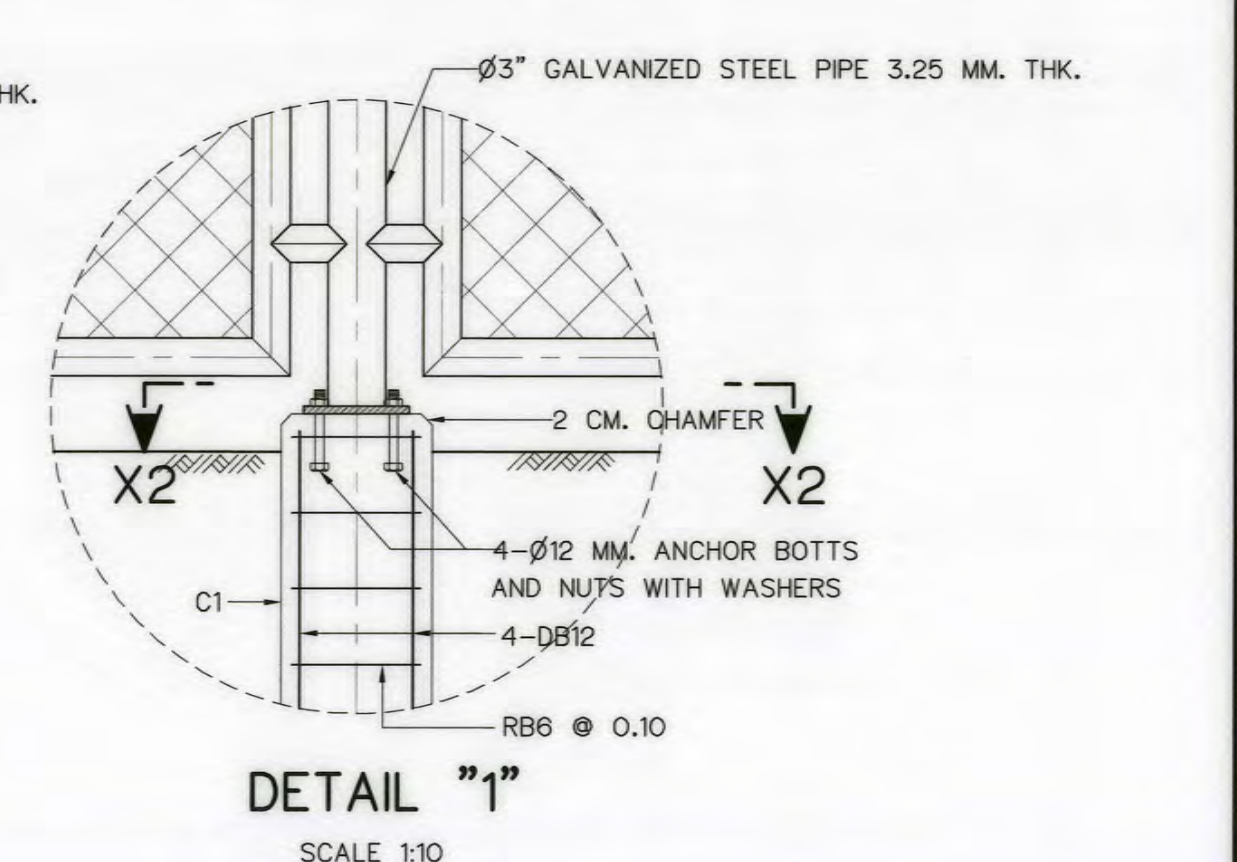
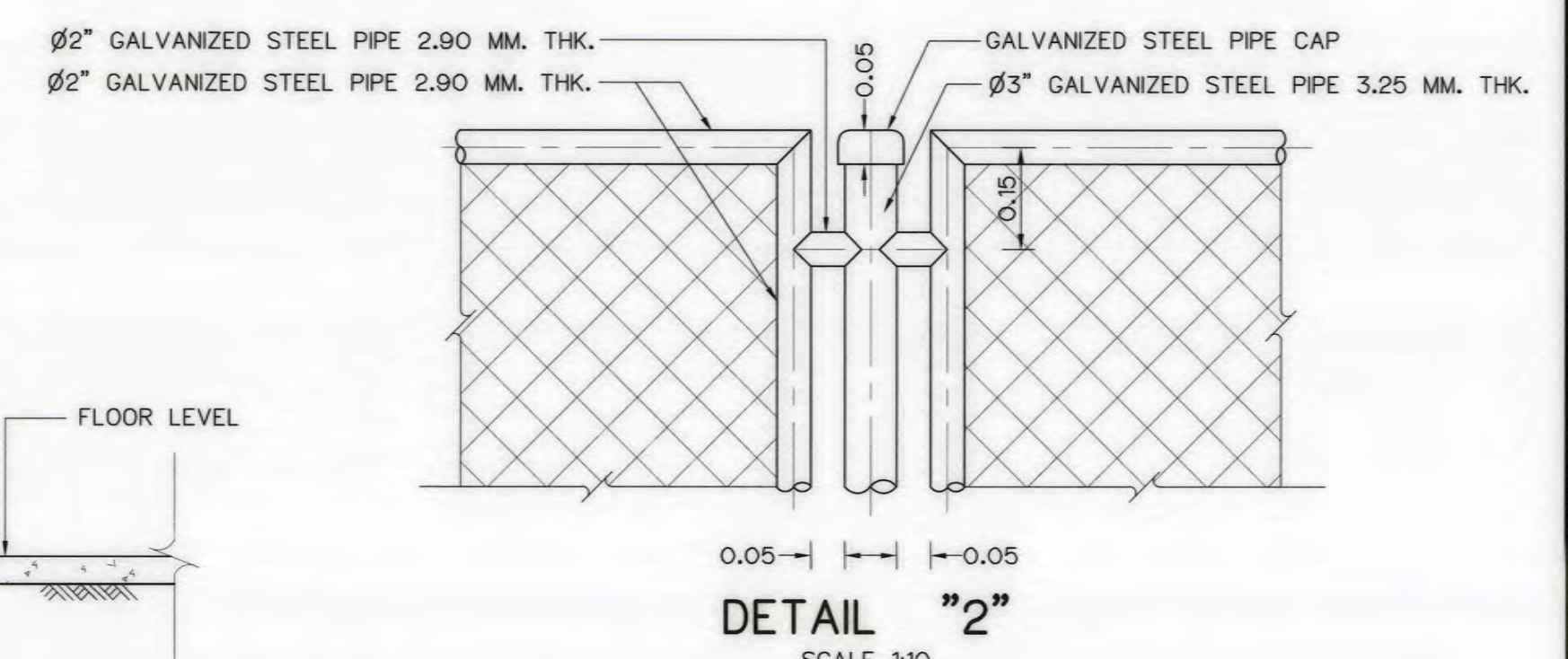
3				
2				
1				
NO.	DATE	REVISIONS	CHECKED	APPROVED

CONSULTANTS

DEDE

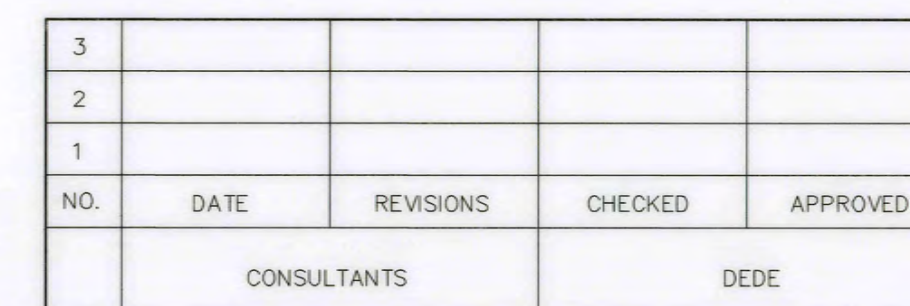
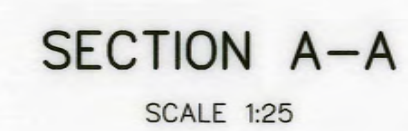
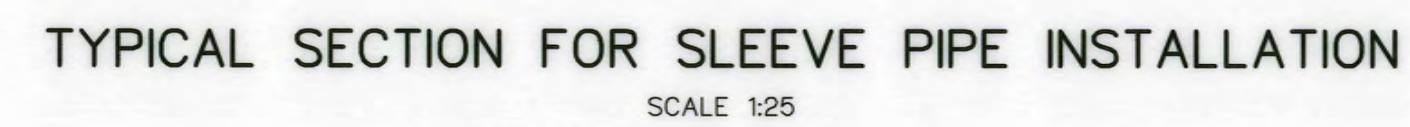


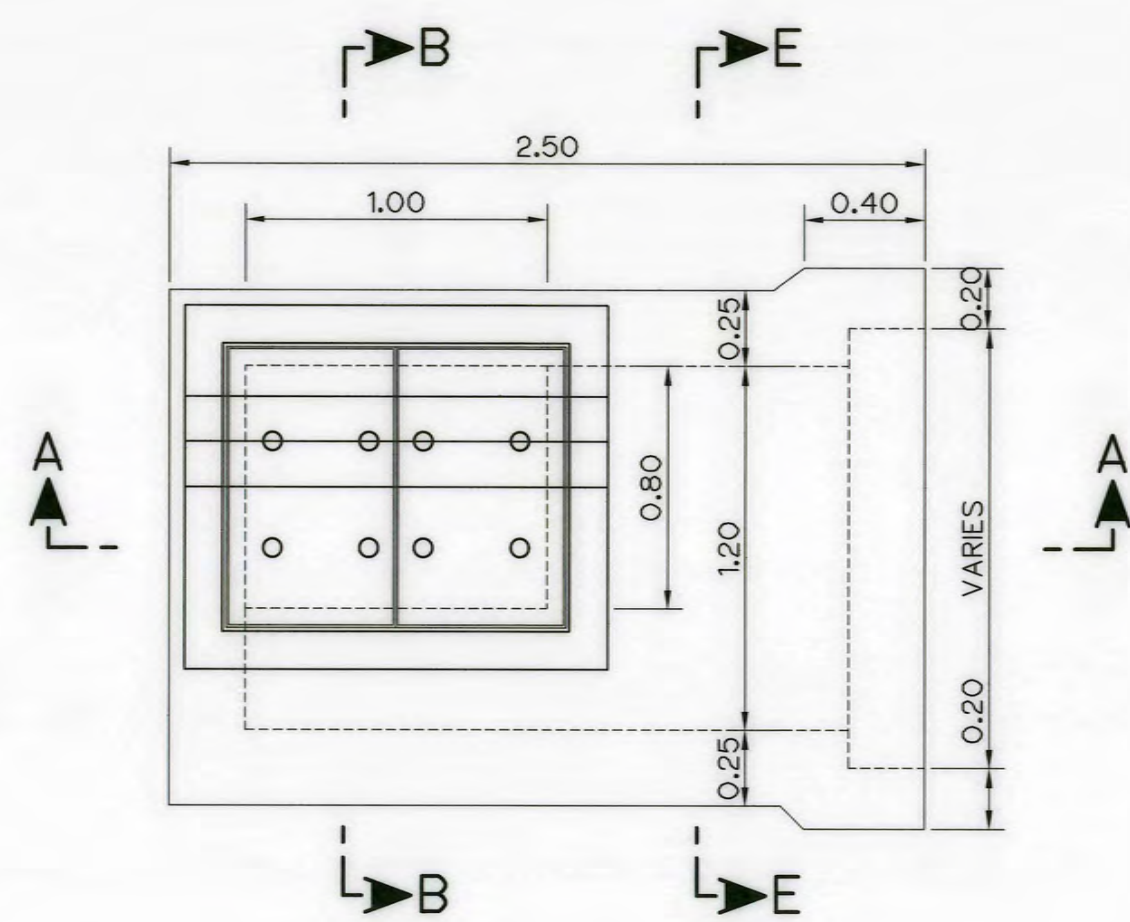
SECTION X2-X2
SCALE 1:10



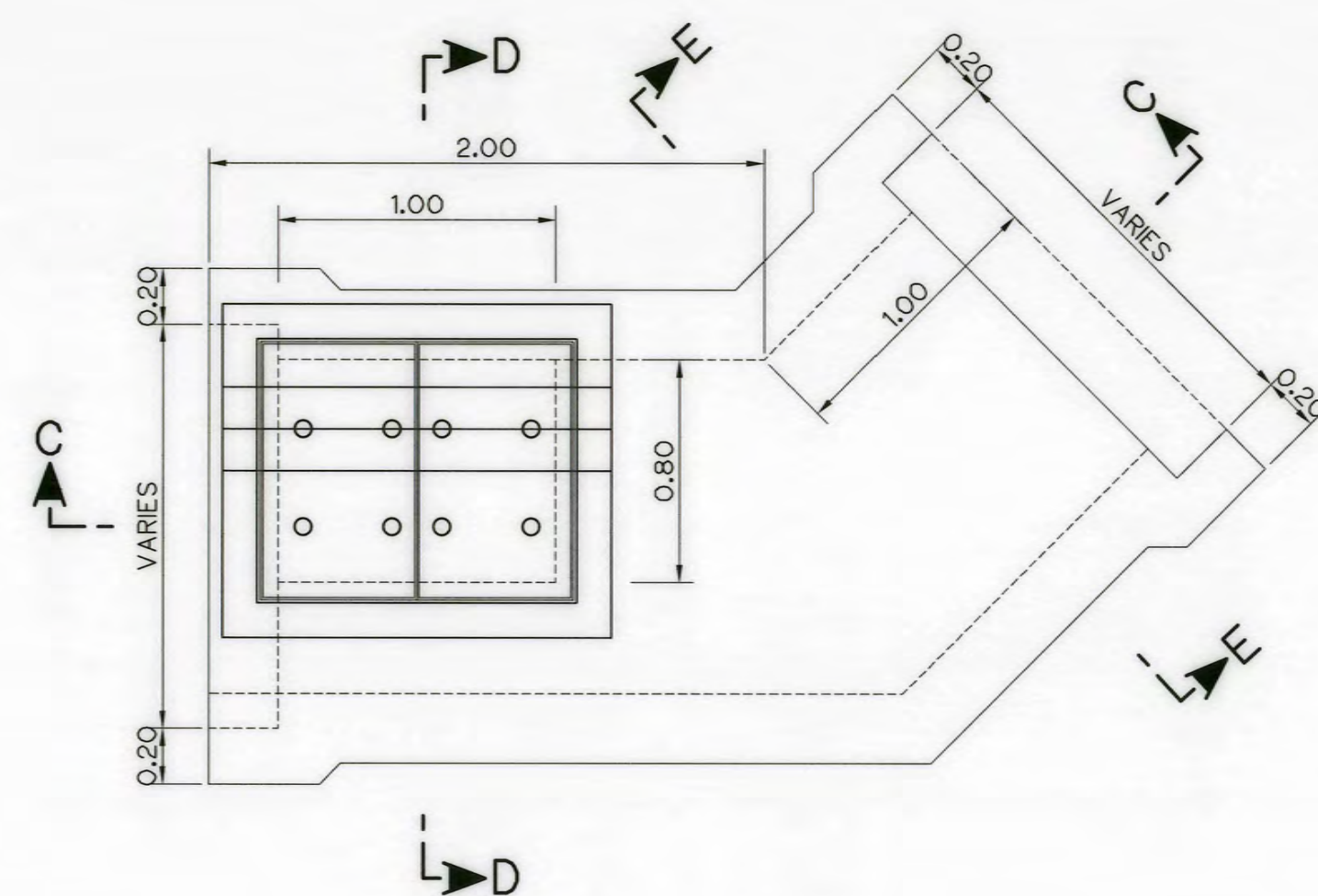
DETAIL "1"
SCALE 1:10

KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY			
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT			
PART : 1 CIVIL WORKS AND TRANSMISSION LINE POWERHOUSE TRANSFORMER AREA PLANS, SECTIONS AND DETAILS			
DESIGNED <i>Wip</i> 28/10/2021	CHECKED <i>Wip</i> 28/10/2021	REVIEWED <i>Wip</i>	SUBMITTED <i>Wip</i>
DRAWN <i>Wip</i>	CHECKED <i>Wip</i>	RECOMMENDED <i>Wip</i>	APPROVED <i>Wip</i>
PROJECT MANAGER	DATE	DRAWING NO.	SHEET NO.
		AKP-PH-18	80 OF 129

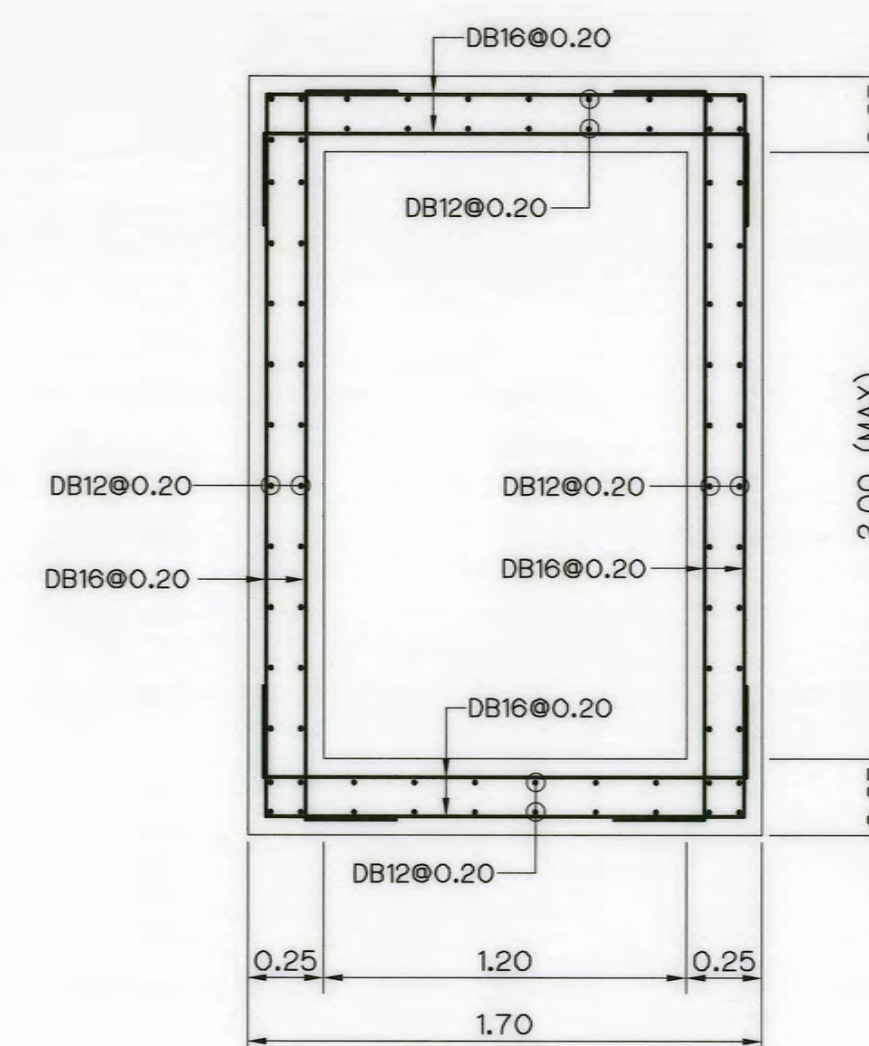




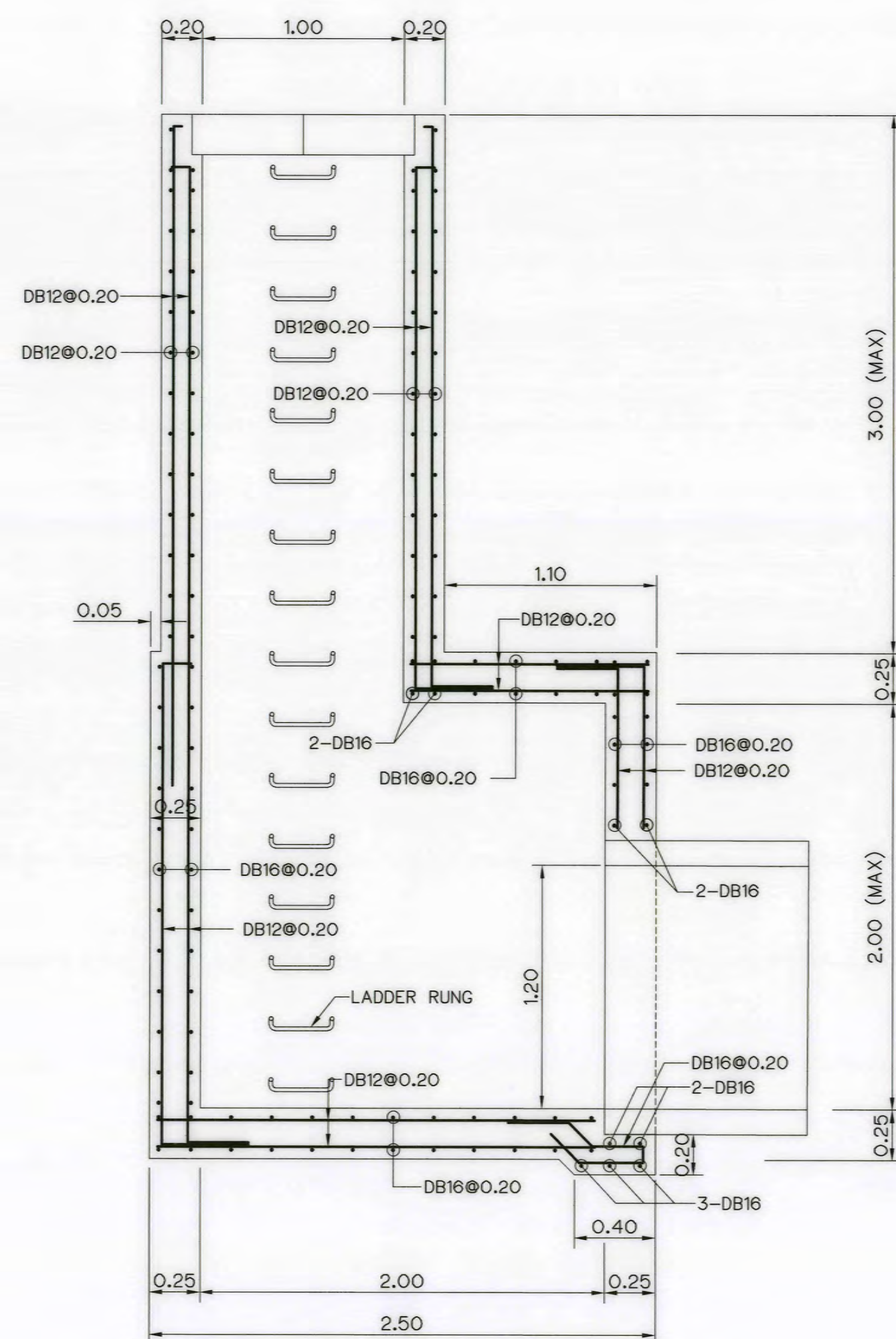
MANHOLE TYPE 1
SCALE 1:25



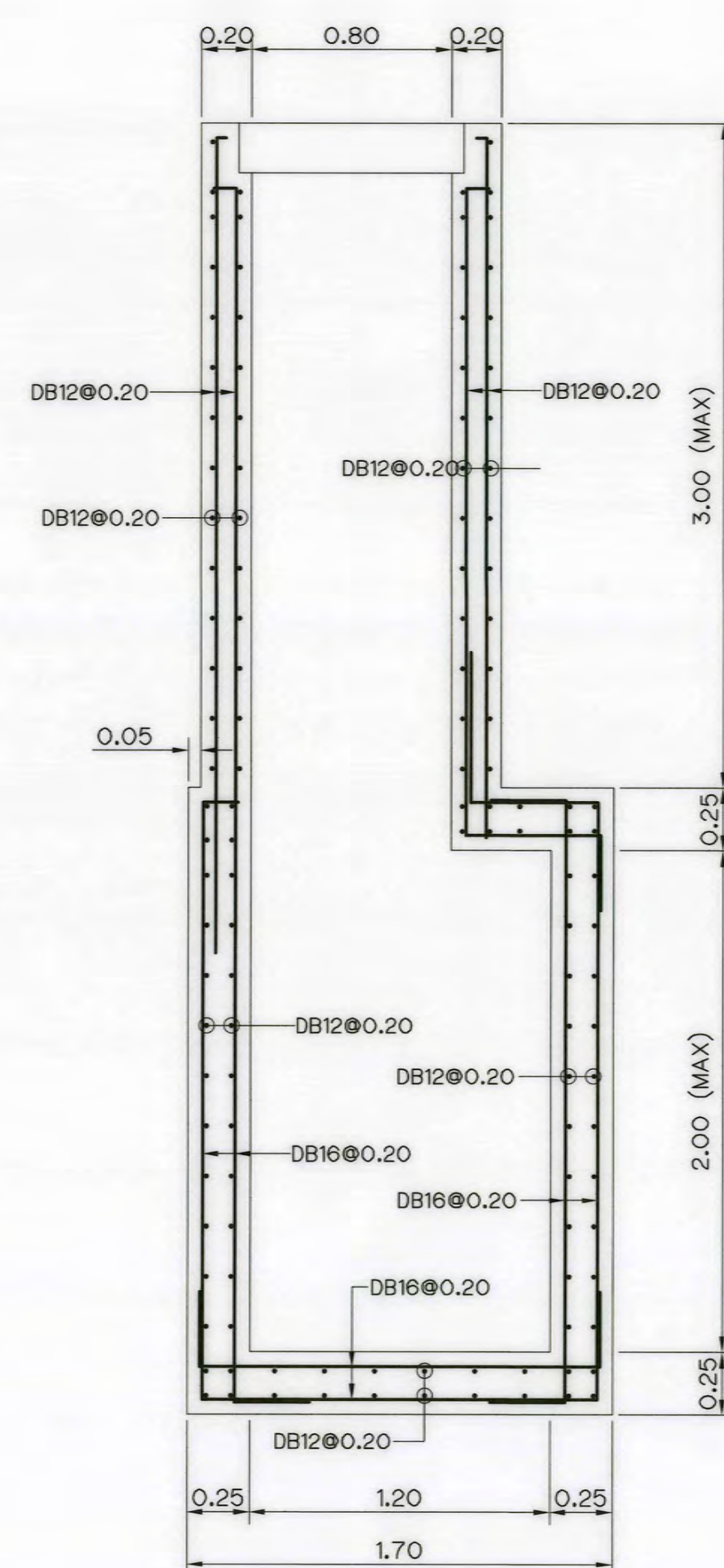
MANHOLE TYPE 2
SCALE 1:25



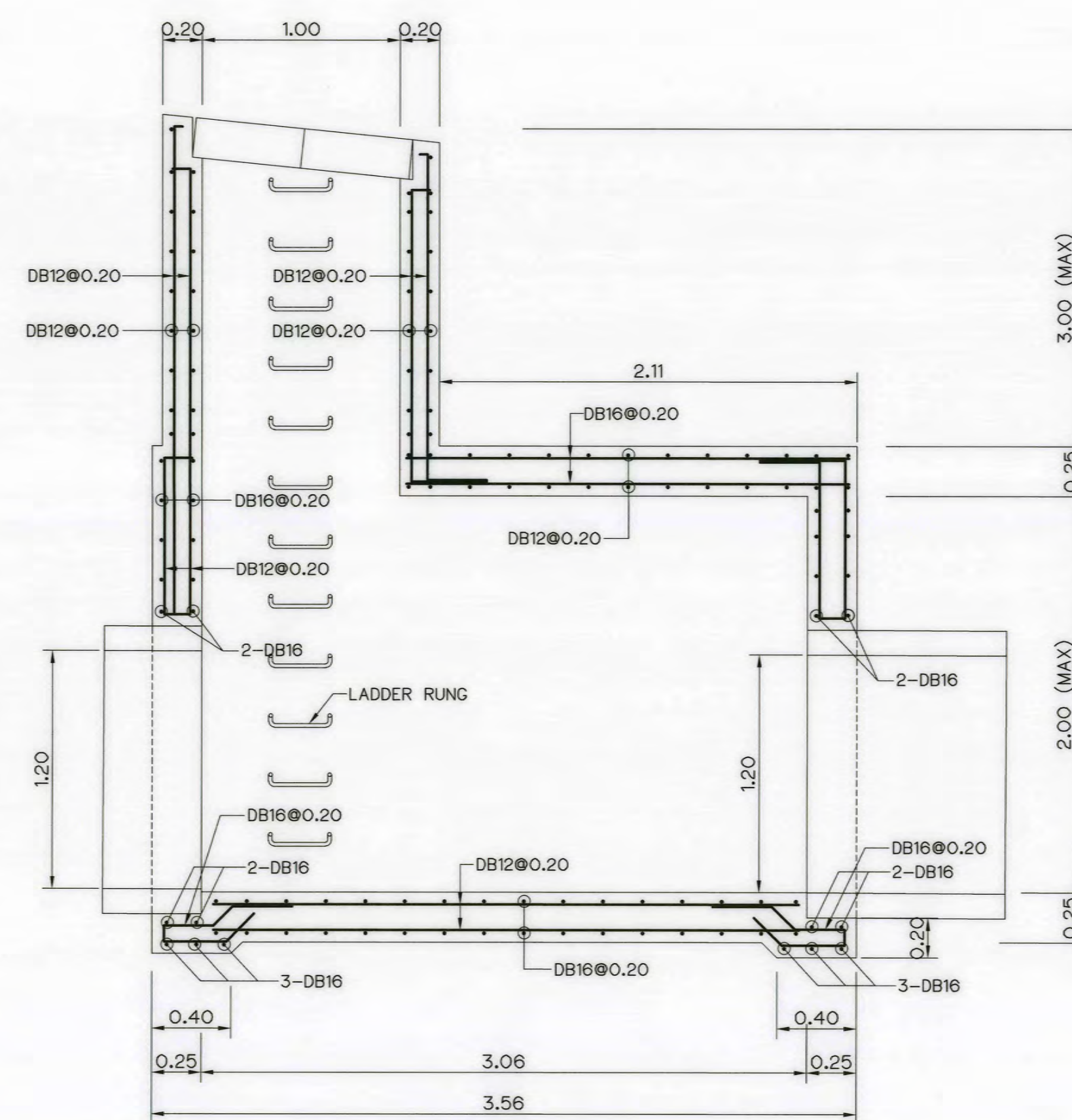
SECTION E-E
SCALE 1:25



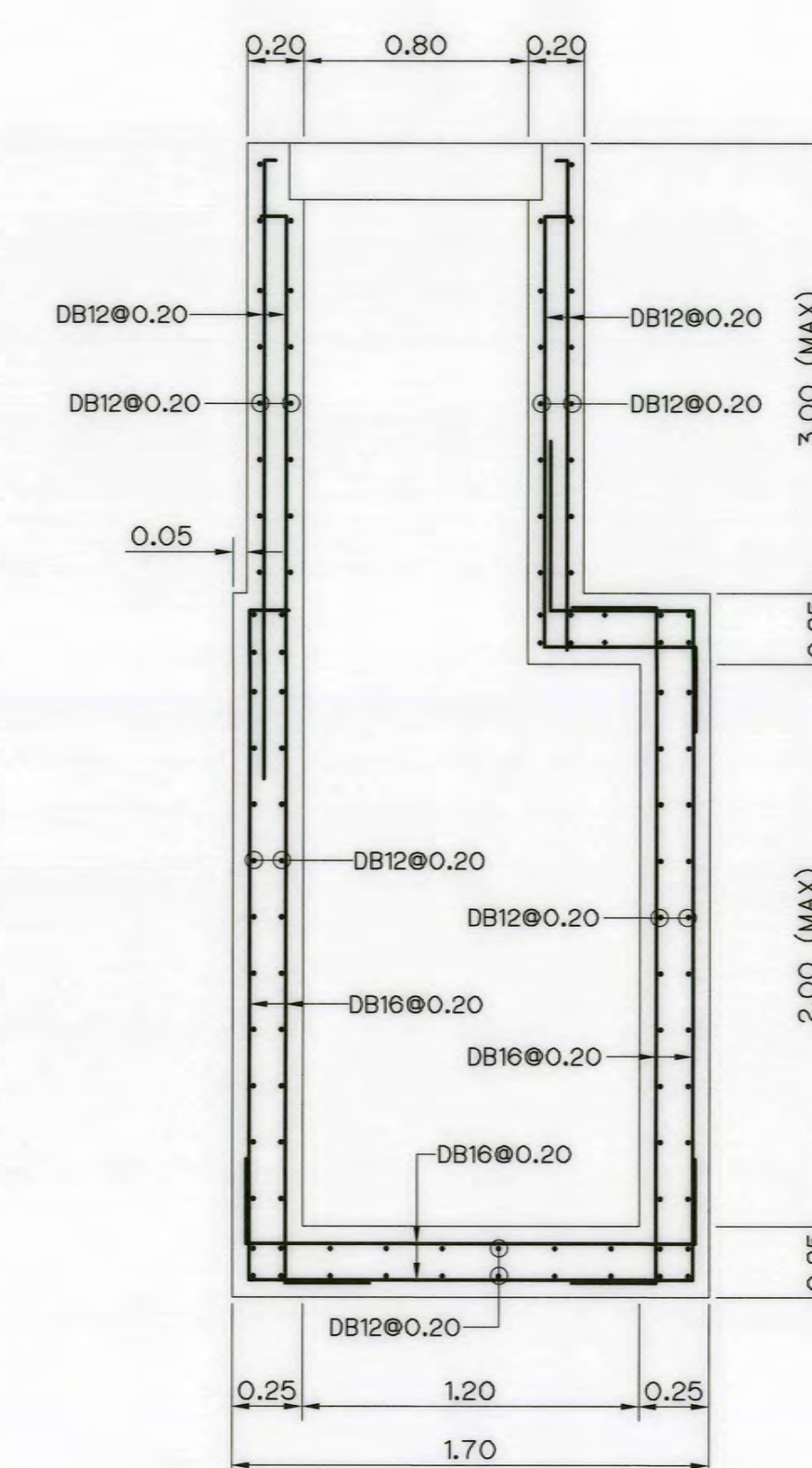
SECTION A-A
SCALE 1:25



SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25



SECTION D-D
SCALE 1:25

NOTES :

1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. AKP-GN-03

REFERENCE DRAWING :

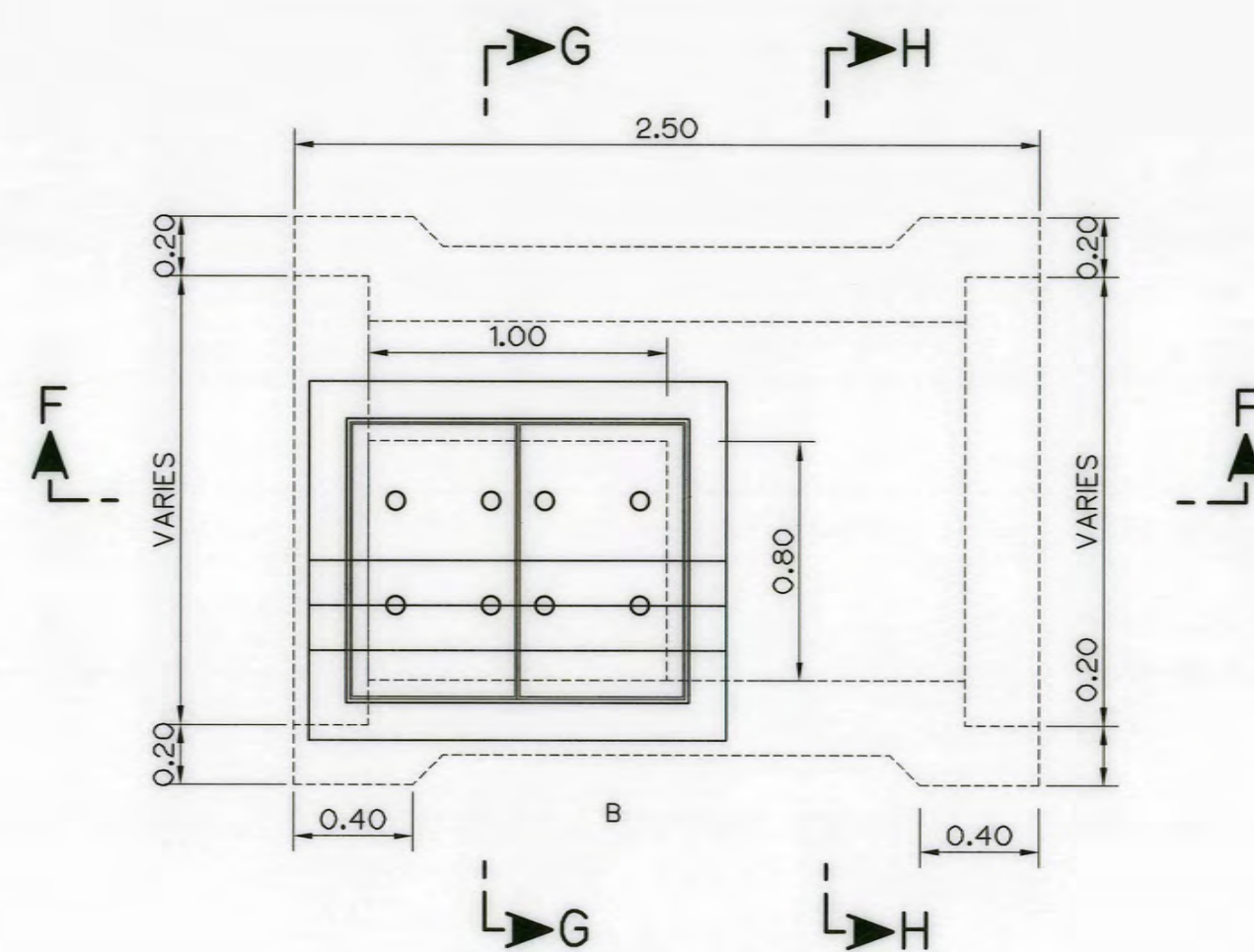
1. POWERHOUSE, MANHOLE PLAN AND SECTIONS
2. POWERHOUSE, MISCELLANEOUS DETAILS

AKP-PH-21
AKP-PH-24

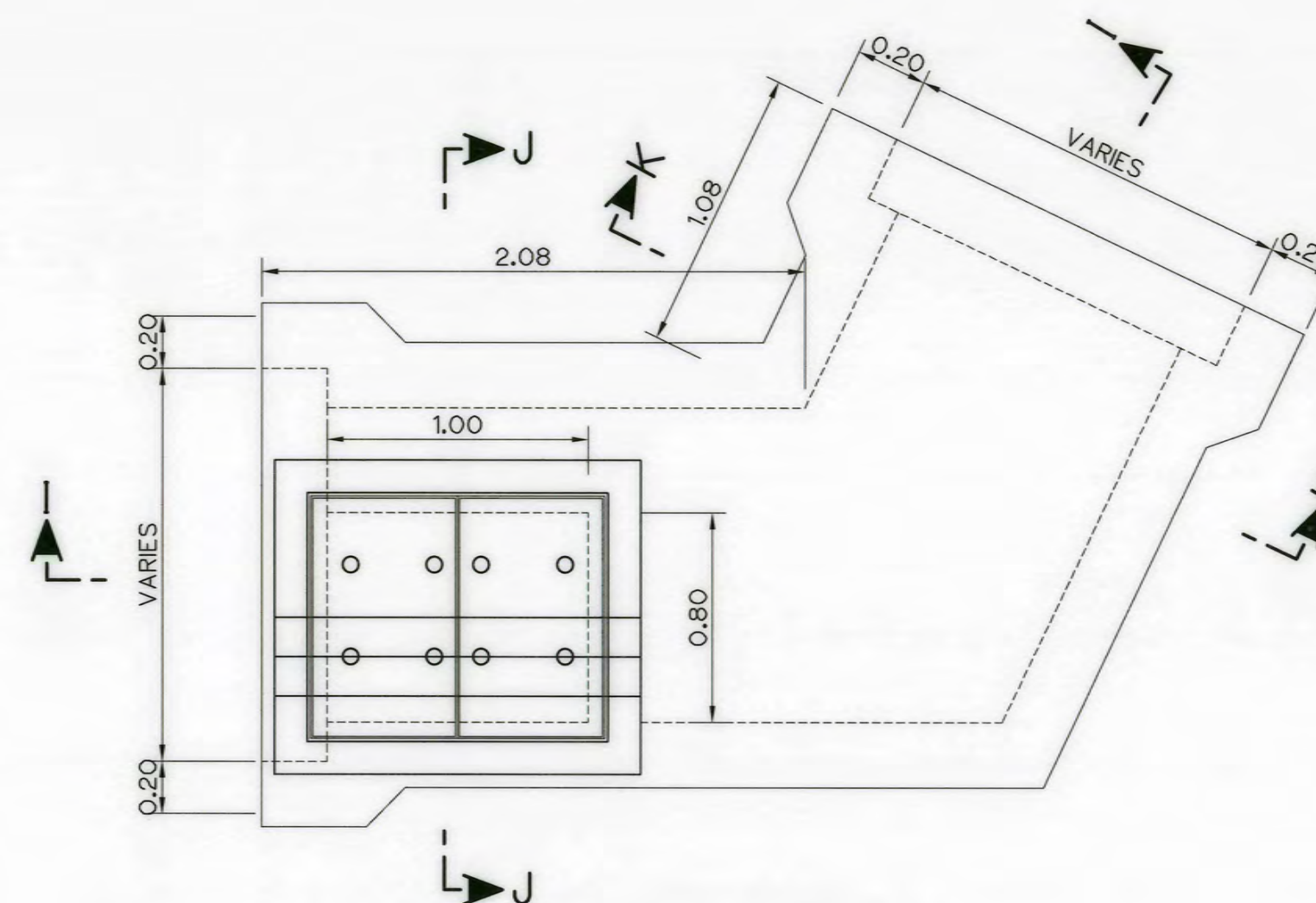


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NO.	DATE	REVISIONS	CHECKED	APPROVED

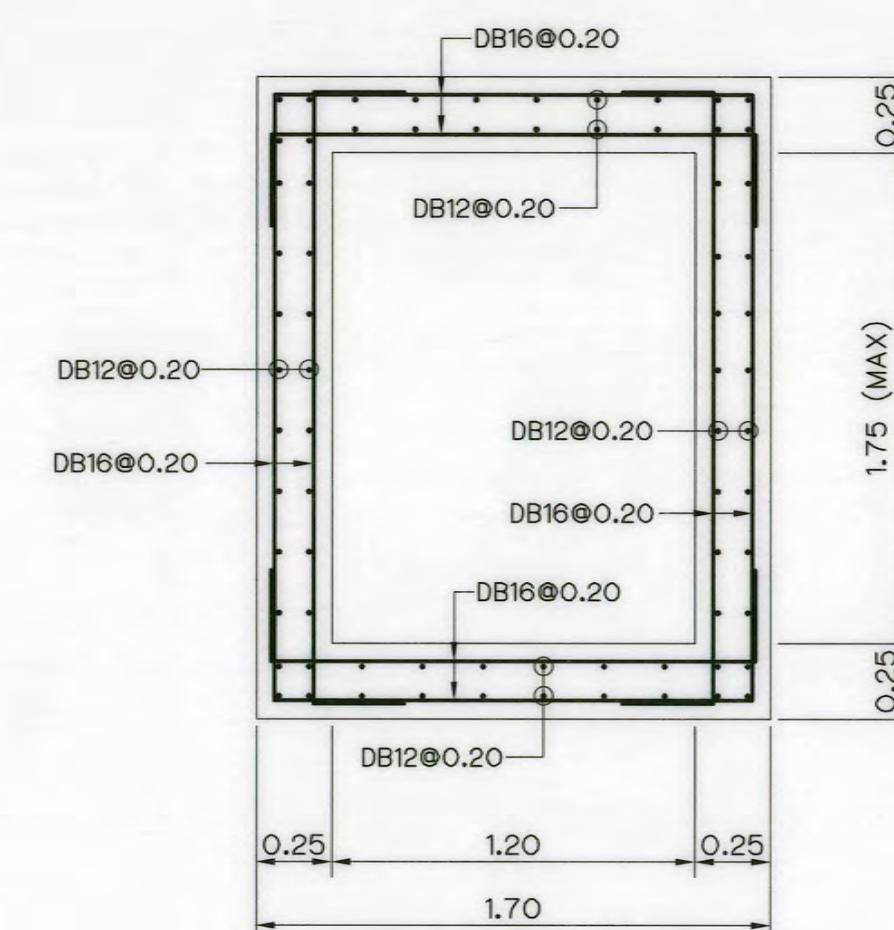
KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY	
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT	
PART : 1 CIVIL WORKS AND TRANSMISSION LINE POWERHOUSE MANHOLE TYPE 1, 2 REINFORCEMENT DETAILS	
P&C MANAGEMENT CO., LTD. SPT CONSULTANTS CO., LTD.	Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY
DESIGNED <i>[Signature]</i> 28/10/2021 DRAWN <i>[Signature]</i> CHECKED <i>[Signature]</i> 28/10/2021 PROJECT MANAGER	REVIEWED <i>[Signature]</i> SUBMITTED <i>[Signature]</i> RECOMMENDED <i>[Signature]</i> APPROVED <i>[Signature]</i> DRAWING NO. AKP-PH-22 SHEET NO. 84 OF 129



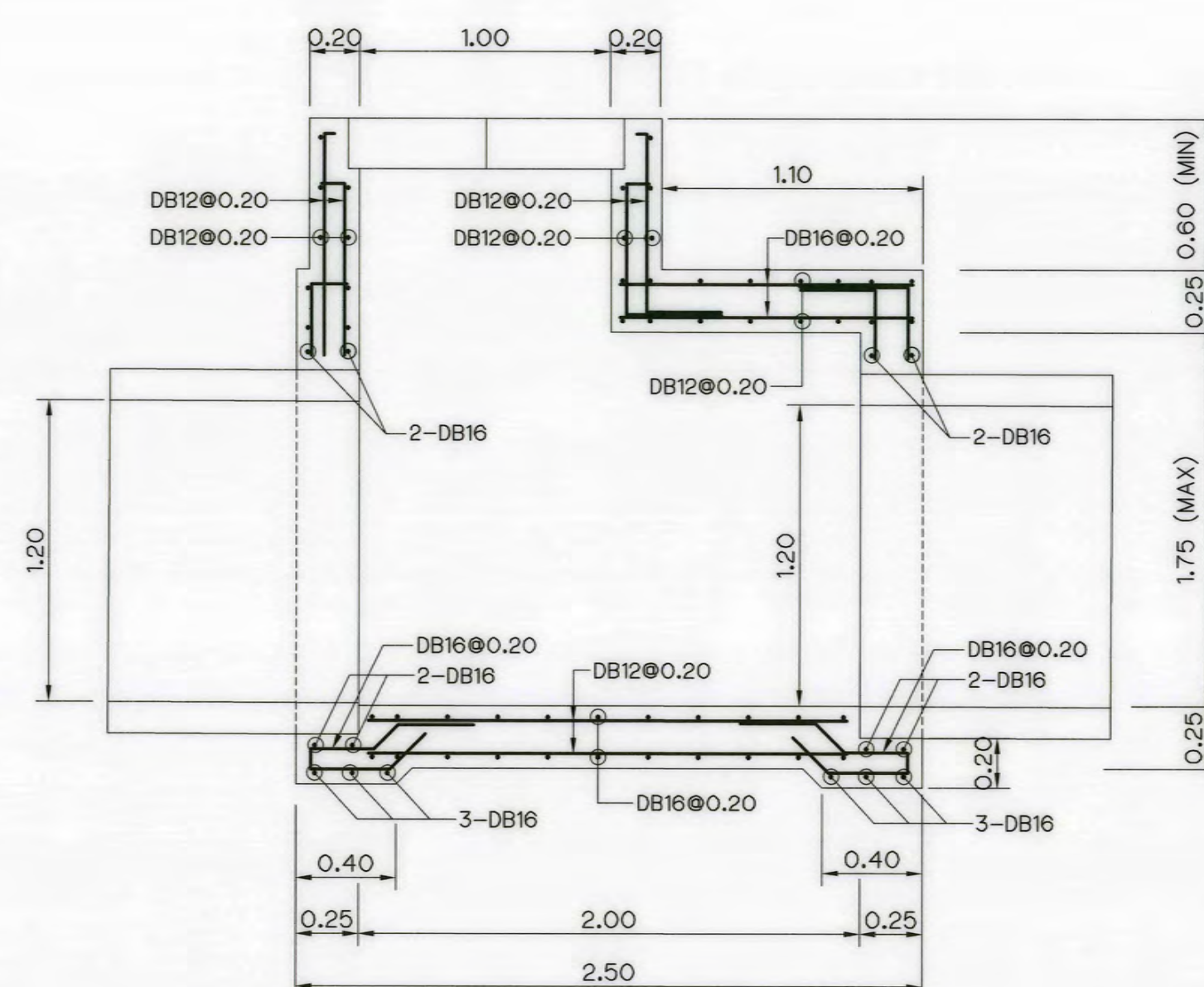
MANHOLE TYPE 3
SCALE 1:25



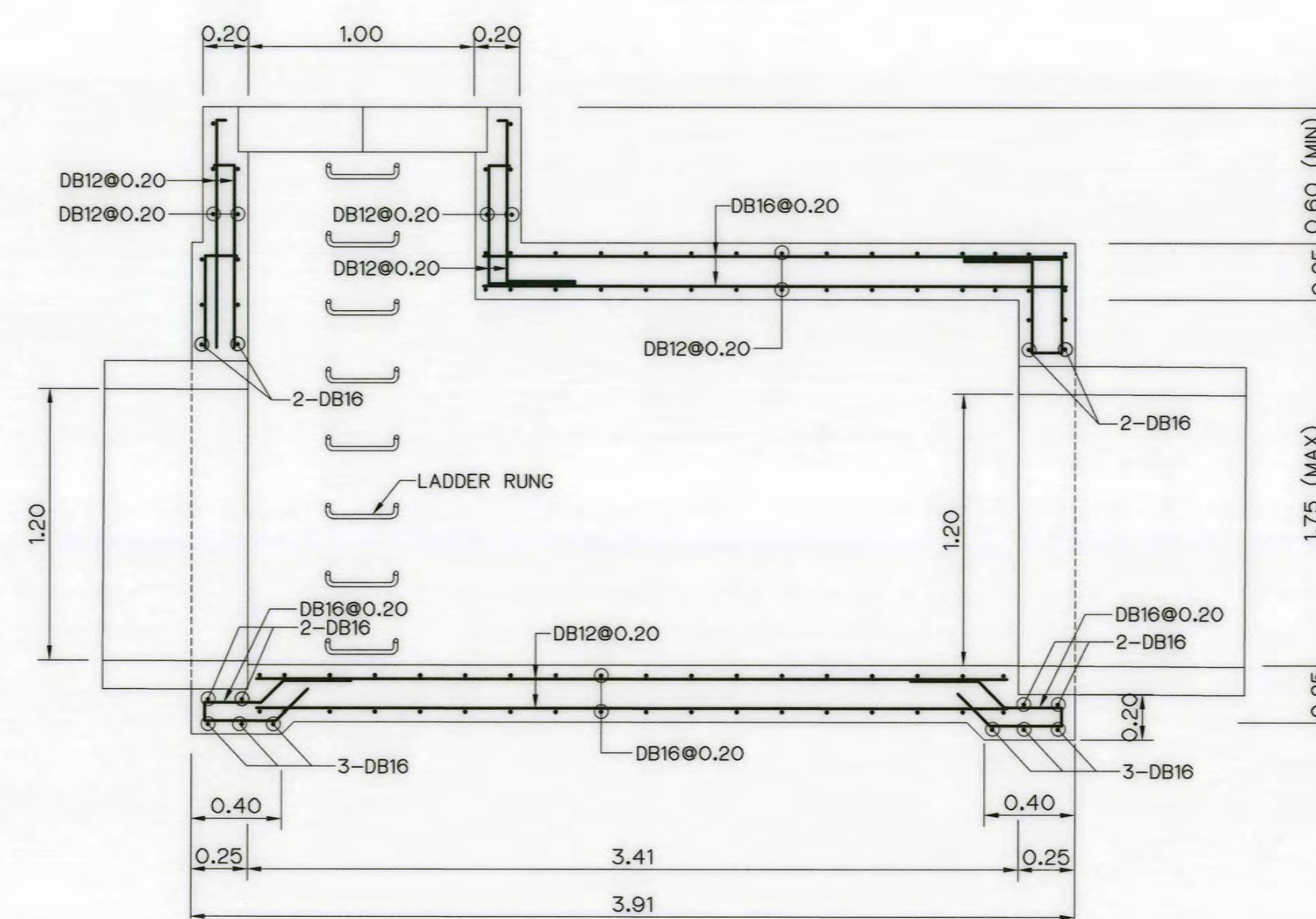
MANHOLE TYPE 4
SCALE 1:25



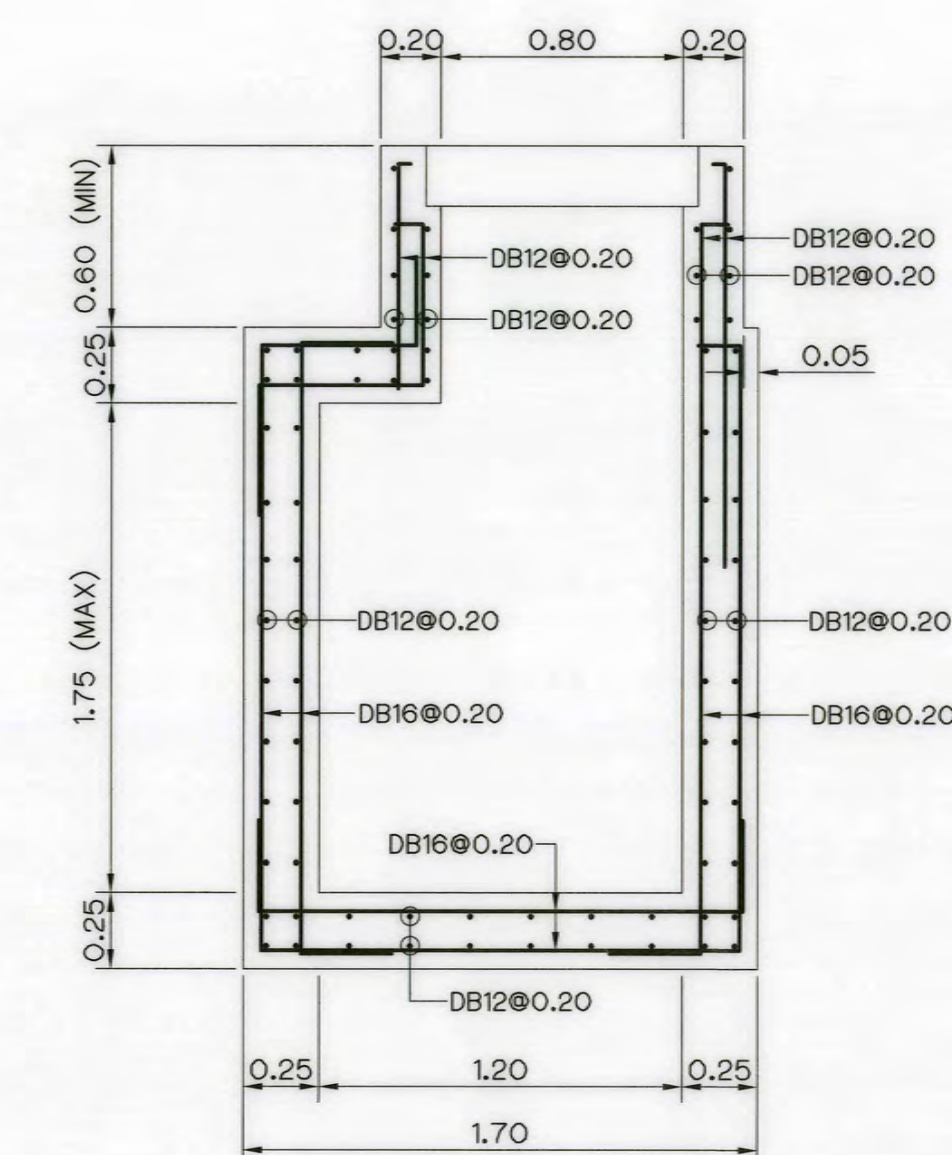
SECTION K-K
SCALE 1:25



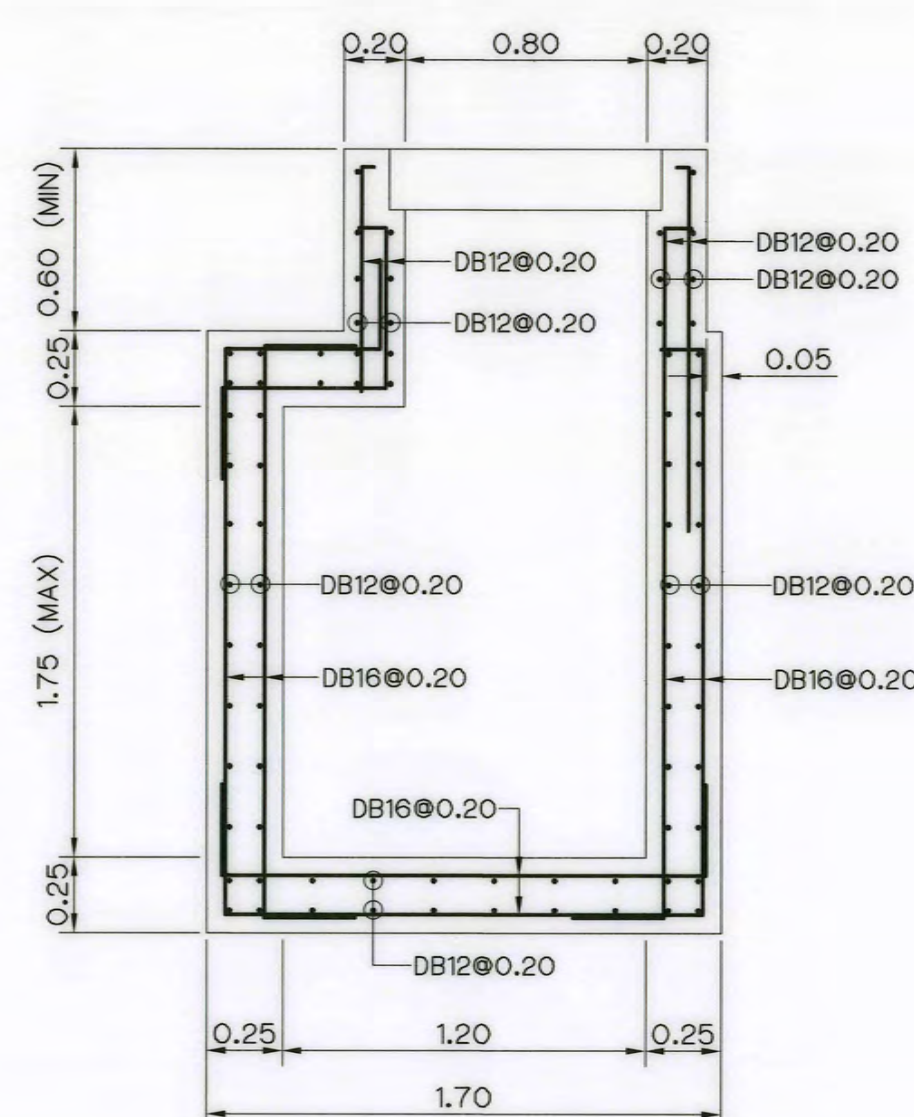
SECTION F-F
SCALE 1:25



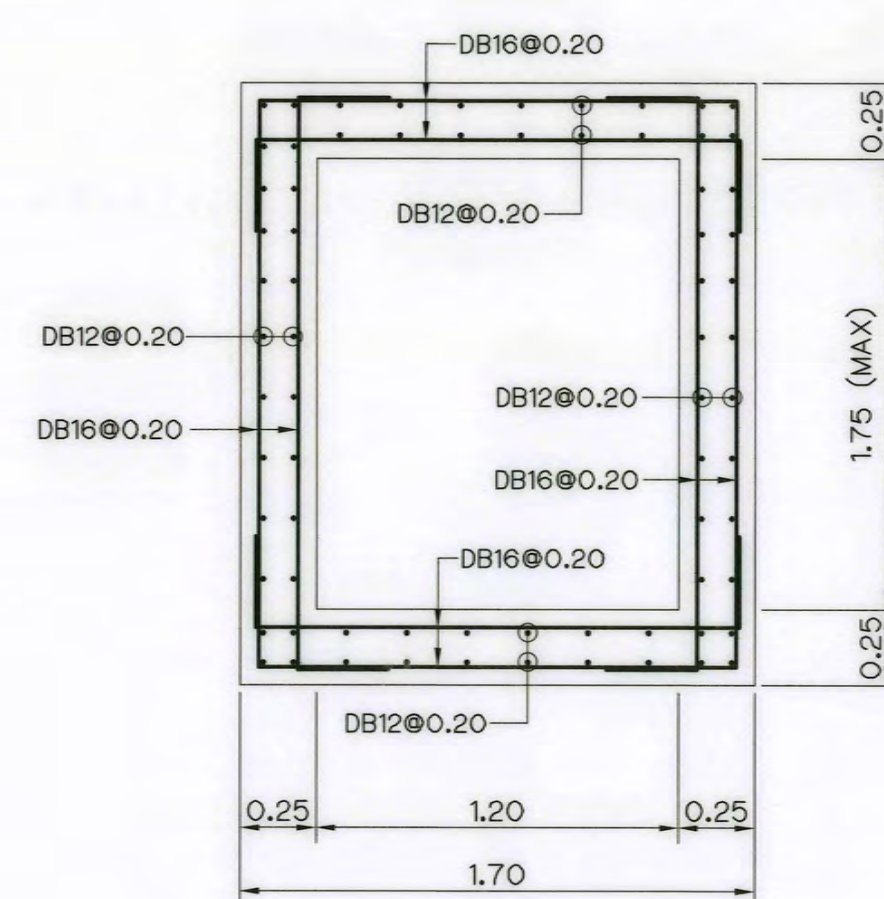
SECTION I-I
SCALE 1:25



SECTION J-J
SCALE 1:25



SECTION G-G
SCALE 1:25



SECTION H-H
SCALE 1:25

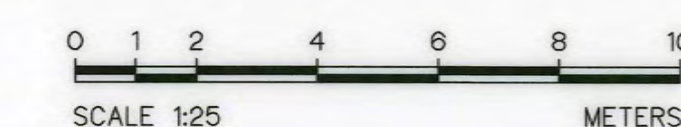
NOTES :

1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. AKP-GN-03

REFERENCE DRAWING :

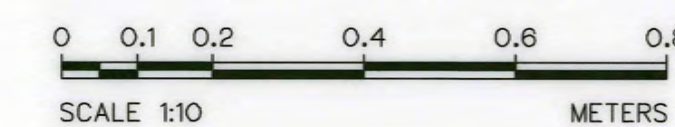
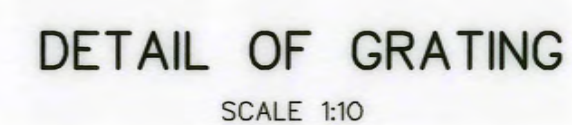
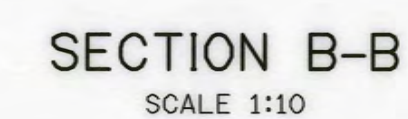
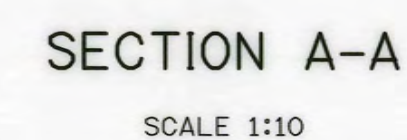
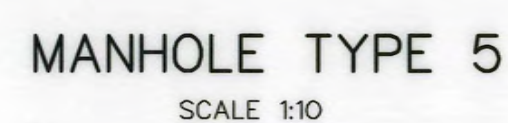
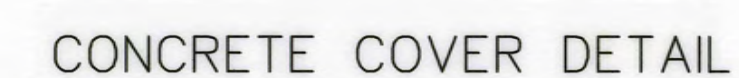
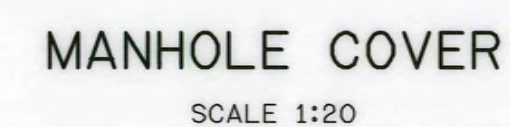
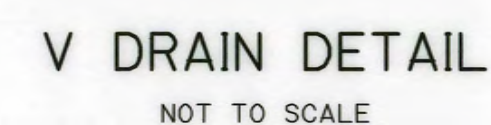
1. POWERHOUSE, MANHOLE PLAN AND SECTIONS
2. POWERHOUSE, MISCELLANEOUS DETAILS

AKP-PH-21
AKP-PH-24



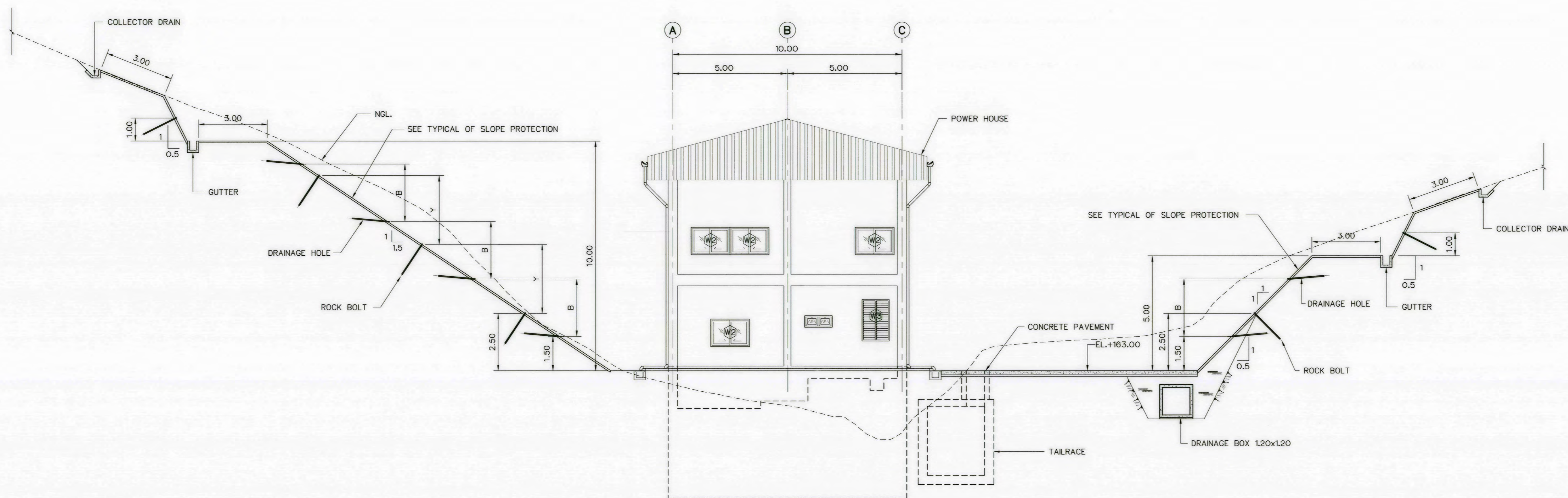
KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY			
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT			
PART : 1 CIVIL WORKS AND TRANSMISSION LINE			
POWERHOUSE MANHOLE TYPE 3, 4 REINFORCEMENT DETAILS			
DESIGNED <i>[Signature]</i> 28.29074 28.9462		SUBMITTED <i>[Signature]</i>	
DRAWN <i>[Signature]</i>		RECOMMENDED <i>[Signature]</i>	
CHECKED <i>[Signature]</i> 28.8231		APPROVED <i>[Signature]</i>	
PROJECT MANAGER		DRAWING NO. 28/10/2021	
DATE		SHEET NO. 85 OF 129	

3				
2				
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NO.	DATE	REVISIONS	CHECKED	APPROVED
CONSULTANTS			DEDE	



AKP-PH-21

3					 SPT CONSULTANTS CO., LTD.	 MINISTRY OF ENERGY		
2						DESIGNED  01.29.074  01.9462	REVIEWED 	
1						DRAWN 	SUBMITTED 	
NO.	DATE	REVISIONS	CHECKED	APPROVED		CHECKED  01.8231	RECOMMENDED 	
CONSULTANTS					DEDE	 28/10/2021	DRAWING NO. AKP-PH-24	SHEET NO. 86 of 129



SLOPE PROTECT SECTION
SCALE 1:100



NOTES :

1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. AKP-GN-03
 3. THIS DRAWING PREPARES FOR BOQ ONLY.
- IN CONSTRUCTION STAGE SHALL BE EVALUATED AND ANALYSIS IN THE DETAIL
AND SHOLUD BE MADE BY FIELD GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST.

REFERENCE DRAWINGS :

1. POWERHOUSE, TYPICAL SLOPE PROTECTION

AKP-PH-26

3				
2				
1				
NO.	DATE	REVISIONS	CHECKED	APPROVED
			CONSULTANTS	DEDE

KINGDOM OF THAILAND Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY	
AI KA PO HYDROPOWER PROJECT TAMBON PHUKHAO THONG AMPHOE SUKHIRIN CHANGWAT NARATHIWAT	
PART : 1 CIVIL WORKS AND TRANSMISSION LINE POWERHOUSE SLOPE PROTECT SECTION	
P&C MANAGEMENT CO., LTD. SPT CONSULTANTS CO., LTD.	Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY
DESIGNED <i>[Signature]</i> 28/10/2021 881.8969	REVIEWED <i>[Signature]</i>
DRAWN <i>[Signature]</i>	SUBMITTED <i>[Signature]</i>
CHECKED <i>[Signature]</i> 881.8231	RECOMMENDED <i>[Signature]</i>
PROJECT MANAGER <i>[Signature]</i> 28/10/2021	APPROVED <i>[Signature]</i>
DATE	SHEET NO. AKP-PH-25 87 OF 129