Supplemental Notice No. 2

Invitation to Bid No. TIEC-S-06

Supply and Construction of 500/230 kV Nakhon Ratchasima 4 Substation (GIS) and Expansion of 500 kV Chaiyaphum 2 (GIS) and 230 kV Nakhon Ratchasima 3 Substations

Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area to Enhance System Security

(Two-Envelope)

The attached Supplemental Notice shall be considered as part of the bidding documents No. TIEC-S-06.

As acknowledgement of receipt that all additions, deletions and revisions contained in this Supplemental Notice are incorporated into the above bidding documents, Bidder is requested to sign and return this acknowledgement via email address : ***598265@egat.co.th*** within three (3) days from the date of the announcement of this Supplemental Notice on http://www4.egat.co.th/fprocurement/biddingeng/.

The original acknowledgement which is manually signed in ink by a person or persons duly authorized shall be included in the proposal to be submitted on the bid opening date.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

June 9, 2026

ACKNOWLEDGEMENT

This undersigned Bidder hereby certifies that the additions, deletions and revisions set forth in this Supplemental Notice to Invitation to Bid No. TIEC-S-06 are incorporated as part of the above bidding documents and will be fully included in any bids which he may submit.

Signed ______________________

Title ______________________

Company ______________________

Date ______________________

E L E C T R I C I T Y   G E N E R A T I N G   A U T H O R I T Y   O F   T H A I L A N D

SUPPLEMENTAL NOTICE NO. 2

INVITATION TO BID NO. TIEC-S-06

SUPPLY AND CONSTRUCTION OF 500/230 kV NAKHON RATCHASIMA 4 SUBSTATION (GIS) AND EXPANSION OF 500 kV CHAIYAPHUM 2 (GIS) AND 230 kV NAKHON RATCHASIMA 3 SUBSTATIONS

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

The following supplemental information is hereby given for the above described Invitation:

Volume I of IV

1. Section A : Invitation to Bid

   Postpone the price and technical proposals submission date from May 21, 2026 to ***July 1, 2026***.

2. Section H : Scope of Work

   Replace pages H1D-11, H1D-12, H1D-20, H1D-21, H2D-4 and H3D-1 of Scope of Work with the revised pages with (Rev.1) attached.

Volume IV of IV

3. Section L : Drawings

   Add the Drawing No. SD-HH-0-01 Sheet 00/00 Rev.1 to the end of this section.

Bid submitted must be in accordance with this Notice. Receipt of this Notice shall be acknowledged by the Bidder on the proposal included in the Bidding Documents in the space provided on page Part 3 - C20, Article C-5 Supplemental Notices.

ELECTRICITY GENERATING
AUTHORITY OF THAILAND

June 9 ,2026

CIVIL WORK

1. Design and construction of

    1.1 500 kV GIS Building

        1.1.1 The design of structure & foundation shall be submitted to EGAT for approval.

        1.1.2 The main conceptual design of the structure shall consist of:

        - R.C. Structure shall be built from the foundation to GIS floor; and
        - Pre-engineered building (PEB)steel structure (bolts connection system) above the GIS Floor shall be provided with the fire protection ***(the fireproof paint system)*** to conform with legal provisions.

        1.1.3 The roof steel structure shall be applied with a fireproof paint system with a minimum fire-resistant rate of one (1) hour, in accordance with the legal requirement.

        1.1.4 The 500 kV GIS Building structure shall be designed with reference to Dwg.No.SD-GIS-9-02A, The equipment layouts and cable block out shall be in conformity with electrical drawing Dwg.No.NR4-S-2 and Dwg. No. TYP1A-S-6 02/03.

        1.1.5 The contractor shall be design and construct the 500kV GIS structure with all applicable requirements pertaining to the building's Electrical, Architectural, Sanitary and Fire protection systems.

    1.2 Steel structure and foundations for Specified equipment and the others not shown in "For Construction drawings" and / or EGAT's specification.

        1.2.1 500 kV GIB structure and foundation.
        1.2.2 Common Control Cabinet foundation.
        1.2.3 Circuit breaker marshalling kiosk foundation.
        1.2.4 Load break switch structure foundation
        1.2.5 Cable trench 1.80 m width

    1.3 Road and drainage system.

    1.4 Drainage system for cable trench.

    1.5 Oil separator (volume of oil 85cu.m.). The contractor shall make an Oil separator design calculation in accordance with "IEEE STD-979-1994 (R2004)" (IEEE Guide for Substation Fire Protection), "IEEE STD-980-1994 (R2001)" (IEEE Guide for containment and control of oil spills in substation) and "Wastewater Quality Standard" of Pollution Control Department, Ministry of Natural Resources and Environment.

    1.6 Remote control (shall be controlled from either the control room or the guard house) and door phone system for main entrance gate.

2. Construction of

    2.1 Telecommunication tower foundation.
    2.2 Steel structure foundation.
    2.3 Take-off foundation.
    2.4 Equipment structure foundation with sub trench (if required).
    2.5 Transformer loading.
    2.6 Cable trench.
    2.7 RC. Road.
    2.8 Oil separator.
    2.9 Oil containing pit with steel grating and black steel spiral-seam pipes (TIS 427-2531) with protection method according to AWWA C217, C205.
    2.10 Crushed rock surfacing.
    2.11 Wire mesh fence.
    2.12 Main entrance gate 8.00 m width (sliding).
    2.13 Signboard structure and foundation.
    2.14 Site office.
    2.15 Garage house
    2.16 Lamp post for fence and access road lighting LED type foundation.

3. The drawings and calculation of all buildings shall be verified with adequate details for intended application and submitted to EGAT for approval.

4. All design works and the fabrication drawings for all steel structures shall be submitted to EGAT for approval.

5. All design, construction and testing shall be in accordance with Specification No.3001: Civil and Architectural Work.

6. Bored hole for soil investigation shall conform to Specification No. 3001. The position shall be submitted to EGAT for approval.

~~7. ***EGAT's Soil Investigation Report shall be submitted to the Contract after award of contract. If Soil Investigation Report affects foundation design (as shown in Price Schedule), the consequent works can be additional/deductive work.***~~

8. EGAT's Soil Investigation Report (attached to the Contract) which was conducted prior to the site preparation work is a document that can be a reference for design, however; the review of the soil investigation report shall be under responsibility of the Contractor and the warranty of work shall remain following all obligations as specified in the Contract.

Abbreviations

1. Heat detector, HD
2. Addressable Spot-Type Photoelectric Smoke detector, SD
3. Linear Heat Detector, LHD
4. Aspirated smoke detectors, ASD
5. Optical beam smoke detector, OBSD

1.17 Pipe coating system shall conform to ASME A13.1 standard and ANSI-A13.1

1.18 Underground water piping shall have indicator sign.

1.19 For Fire protection system design shall be conformed to NFPA 101 (Life Safety Code).

1.20 All junction boxes or electrical equipment in rooms on ground floor shall be 1.2 m higher from room floor elevation.

2. Construction of

2.1 Cabinets with 2x50 lbs wheel fire extinguisher.

2.2 Underground water tank 50 cu.m.

CIVIL WORK

1. Design and construction of

1.1 230 kV GIS Building

1.1.1 The design of structure & foundation shall be submitted to EGAT for approval.

1.1.2 The main conceptual design of the structure shall consist of:

- R.C. Structure shall be built from the foundation to GIS floor; and
- Pre-engineered building (PEB)steel structure (bolts connection system) above the GIS Floor shall be provided with the fire protection ***(the fireproof paint system)*** to conform with legal provisions.

1.1.3 The roof steel structure shall be applied with a fireproof paint system with a minimum fire-resistant rate of one (1) hour, in accordance with the legal requirement.

1.1.4 The 230 kV GIS Building structure shall be designed with reference to Dwg.No.SD-GIS-8-02A, The equipment layouts and cable block out shall be in conformity with electrical drawing Dwg.No.NR4-S-2 and Dwg. No. TYP1A-S-6 03/03.

1.1.5 The contractor shall be design and construct the 230 kV GIS structure with all applicable requirements pertaining to the building's Electrical, Architectural, Sanitary and Fire protection systems.

1.2 Steel structure and foundations for Specified equipment and the others not shown in "For Construction drawings" and / or EGAT's specification.

1.2.1 230 kV GIB & GIS bushing structure and foundation.

1.2.2 Cable trench 1.80 m width

1.3 Road and drainage system.

1.4 Drainage system for cable trench.

2. Construction of

2.1 Steel structure foundation.

2.2 Take-off foundation.

2.3 Equipment structure foundation with sub trench (if required).

2.4 Cable trench.

2.5 RC. Road.

2.6 Crushed rock surfacing.

2.7 Wire mesh fence.

2.8 Lamp post for fence and access road lighting LED type foundation.

3. The drawings and calculation of all buildings shall be verified with adequate details for intended application and submitted to EGAT for approval.
4. All design works and the fabrication drawings for all steel structures shall be submitted to EGAT for approval.
5. All design, construction and testing shall be in accordance with Specification No.3001 : Civil and Architectural Work.
6. Bored hole for soil investigation shall conform to Specification No. 3001. The position shall be submitted to EGAT for approval.
7. ~~***EGAT's Soil Investigation Report shall be submitted to the Contract after award of contract. If Soil Investigation Report affects foundation design (as shown in Price Schedule), the consequent works can be additional/deductive work.***~~
8. EGAT's Soil Investigation Report (attached to the Contract) which was conducted prior to the site preparation work is a document that can be a reference for design, however; the review of the soil investigation report shall be under responsibility of the Contractor and the warranty of work shall remain following all obligations as specified in the Contract.

1.17 The contractor shall provide extra dry contacts of fire pump system signals for future expansion of substation.

1.18 There shall be sunshade for outdoor equipment of deluge system.

CIVIL WORK

1. Construction of

   1.1 Steel structure foundation.

   1.2 Equipment structure foundation with sub trench (if required).

2. The drawings and calculation of all buildings shall be verified with adequate details for intended application and submitted to EGAT for approval.

3. All design works and the fabrication drawings for all steel structures shall be submitted to EGAT for approval.

4. All design, construction and testing shall be in accordance with Specification No.300 : Civil and Architectural Work.

5. ~~***EGAT's Soil Investigation Report shall be submitted to the Contract after award of contract. If Soil Investigation Report affects foundation design (as shown in Price Schedule), the consequent works can be additional/deductive work.***~~

6. EGAT's Soil Investigation Report (attached to the Contract) which was conducted prior to the site preparation work is a document that can be a reference for design, however; the review of the soil investigation report shall be under responsibility of the Contractor and the warranty of work shall remain following all obligations as specified in the Contract.

7. All foundations shall be as specified in layout drawing. Except the result of soil investigation shows that the specified foundations are not appropriate, the Contractor shall design the proposed foundations.

8. Dynamic load test (DLT) according to ASTM D4945-89 shall be applied to at least 2% of driven piles (if driven pile type is required) except for driven pile of fence and lamp post.

9. Seismic load test (sonic integrity test) according to ASTM D5882-96 shall be applied to all bored piles (if bored pile type is required).

10. Plate bearing test according to ASTM D1194-94 shall be submitted to EGAT for approval. (if pad type foundation is required).

11. The Contractor shall remove all debris from construction material and other works in order to make the site clean and be in the condition acceptable to EGAT.

<u>Work not included in this Contract.</u>

- Supply of spare grass and weed killer and accessories. (Specification 3001-4.2.4)

CIVIL AND ARCHITECTURAL PART

Schedule 4 : 230 kV NAKHON RATCHASIMA 3 Substation

Work included in this Contract

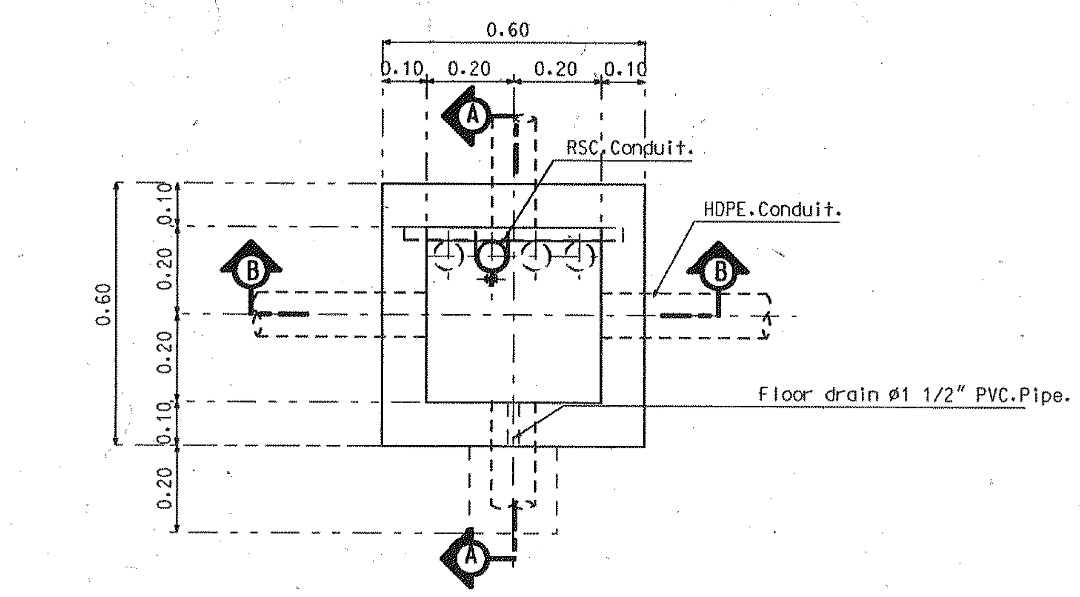
CIVIL WORK

1. Construction of
   1.1 Steel structure foundation.
   1.2 Take-off foundation.
   1.3 Equipment structure foundation with sub trench (if required).
   1.4 Cable trench.
2. The drawings and calculation of all buildings shall be verified with adequate details for intended application and submitted to EGAT for approval.
3. All design works and the fabrication drawings for all steel structures shall be submitted to EGAT for approval.
4. All design, construction and testing shall be in accordance with Specification No.3001 : Civil and Architectural Work.
5. ~~***EGAT's Soil Investigation Report shall be submitted to the Contract after award of contract. If Soil Investigation Report affects foundation design (as shown in Price Schedule), the consequent works can be additional/deductive work.***~~
6. EGAT's Soil Investigation Report (attached to the Contract) which was conducted prior to the site preparation work is a document that can be a reference for design, however; the review of the soil investigation report shall be under responsibility of the Contractor and the warranty of work shall remain following all obligations as specified in the Contract.
7. All foundations shall be as specified in layout drawing. Except the result of soil investigation shows that the specified foundations are not appropriate, the Contractor shall design the proposed foundations.
8. Dynamic load test (DLT) according to ASTM D4945-89 shall be applied to at least 2% of driven piles (if driven pile type is required) except for driven pile of fence and lamp post.
9. Seismic load test (sonic integrity test) according to ASTM D5882-96 shall be applied to all bored piles (if bored pile type is required).
10. Plate bearing test according to ASTM D1194-94 shall be submitted to EGAT for approval. (if pad type foundation is required).
11. The Contractor shall remove all debris from construction material and other works in order to make the site clean and be in the condition acceptable to EGAT.

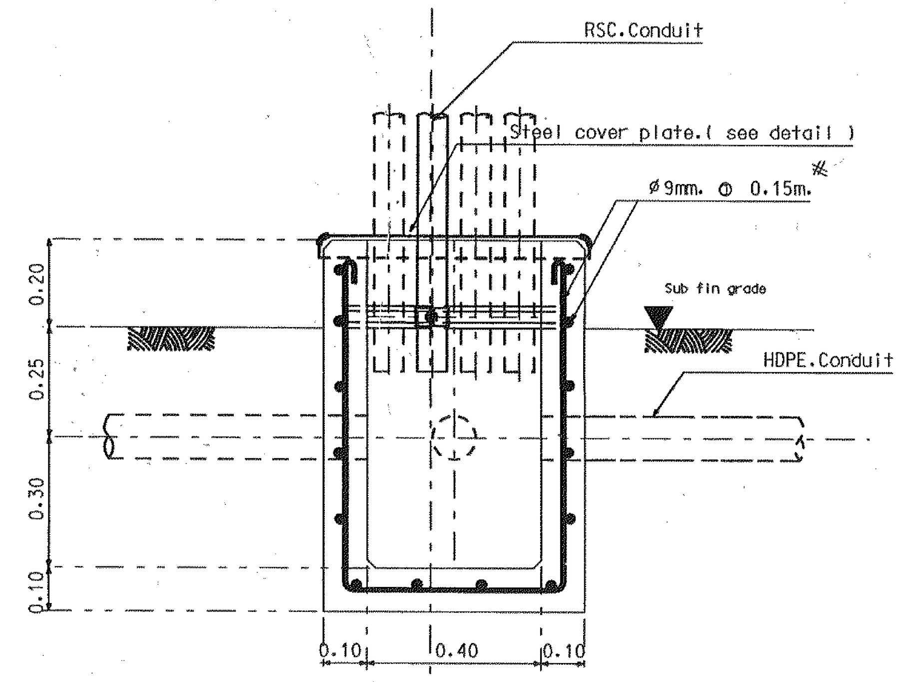
Work not included in this Contract.

- Supply of spare grass and weed killer and accessories. (Specification 3001-4.2.4)

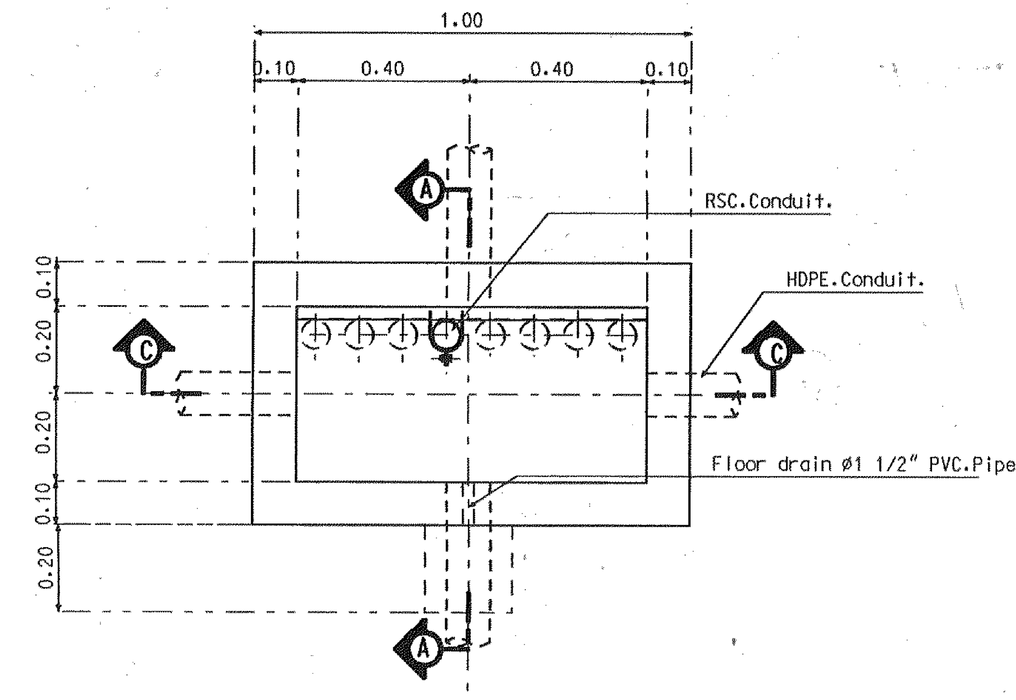
DWG.NO.	SD-HH-O-01	00	1
		REV.	00



PLAN OF TYPICAL HANDHOLE TYPE HH-1 1:20



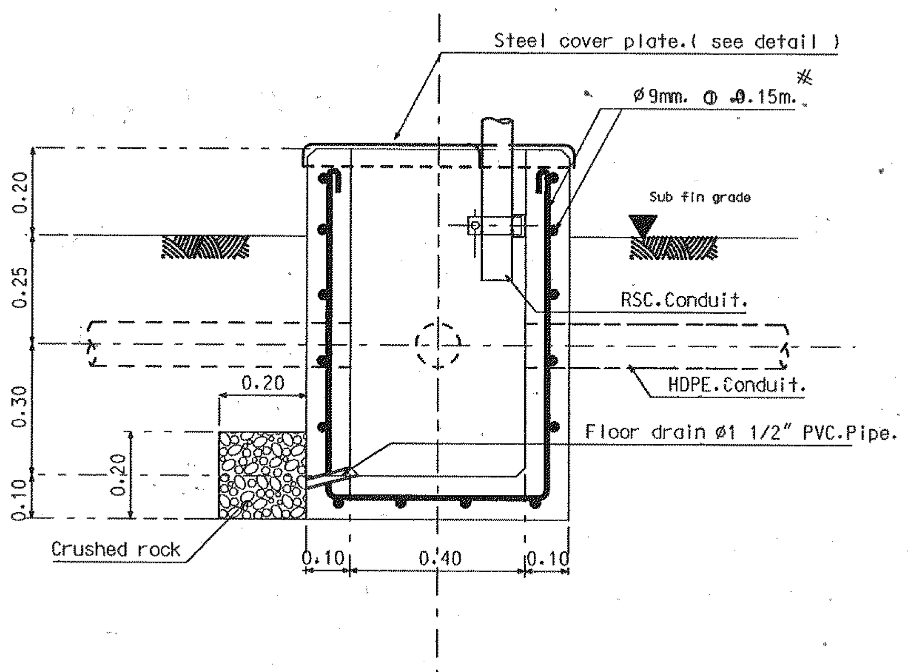
SECTION B - B 1:20



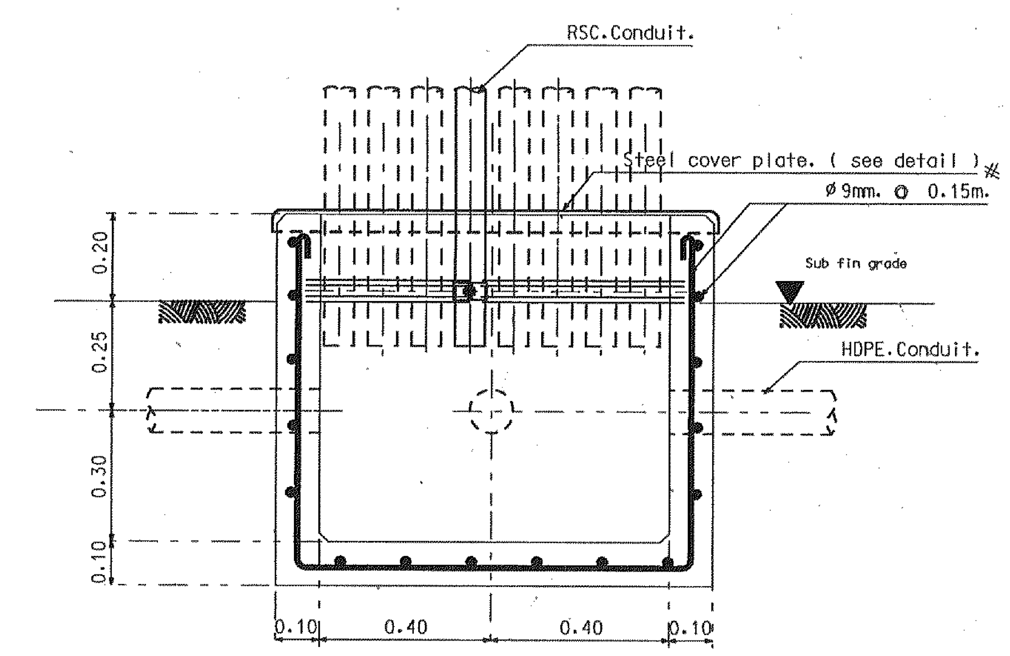
PLAN OF TYPICAL HANDHOLE TYPE HH-2 1:20

NOTES

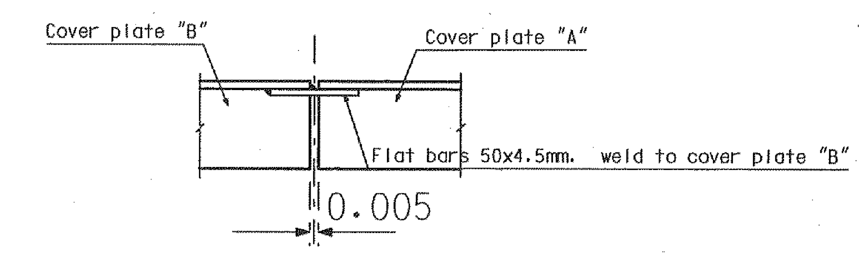
1. All dimensions are in meters, except otherwise shown.
2. All dimensions of reinforcement are center to center of bars.
3. Reinforcing steel shall have a minimum yield strength of 2400 kg/cm^2 for plain bar and 3000 kg/cm^2 for deformed bar.
4. Plain bars shall be terminated in standard hooks.
5. Concrete shall have a minimum compressive strength of 175 kg/cm^2 at 28 days by $\varnothing$ 0.15x0.30m. cylinder test
6. Coarse aggregate for concrete shall be $\varnothing$ 3/4" maximum size.
7. All concrete covering shall be 5cm., except otherwise shown.
8. Chamfer all exposed edges 2cm., except otherwise shown.
9. Backfill shall be compacted to 85% of standard proctor density on each layer. (15cm.)
10. Steel cover plate & angel steel shall be hot-dip galvanized to meet the requirement of ASTM-A123 after fabrication.
11. Alignment, size, quantity and installation of conduit shall be shown in CABLE TRENCH AND CONDUIT INSTALLATION Dwg.no. SE-TC-7-02, SE-TC-7-03, SE-TC-7-04, SE-TC-8-02&SE-TC-8-03



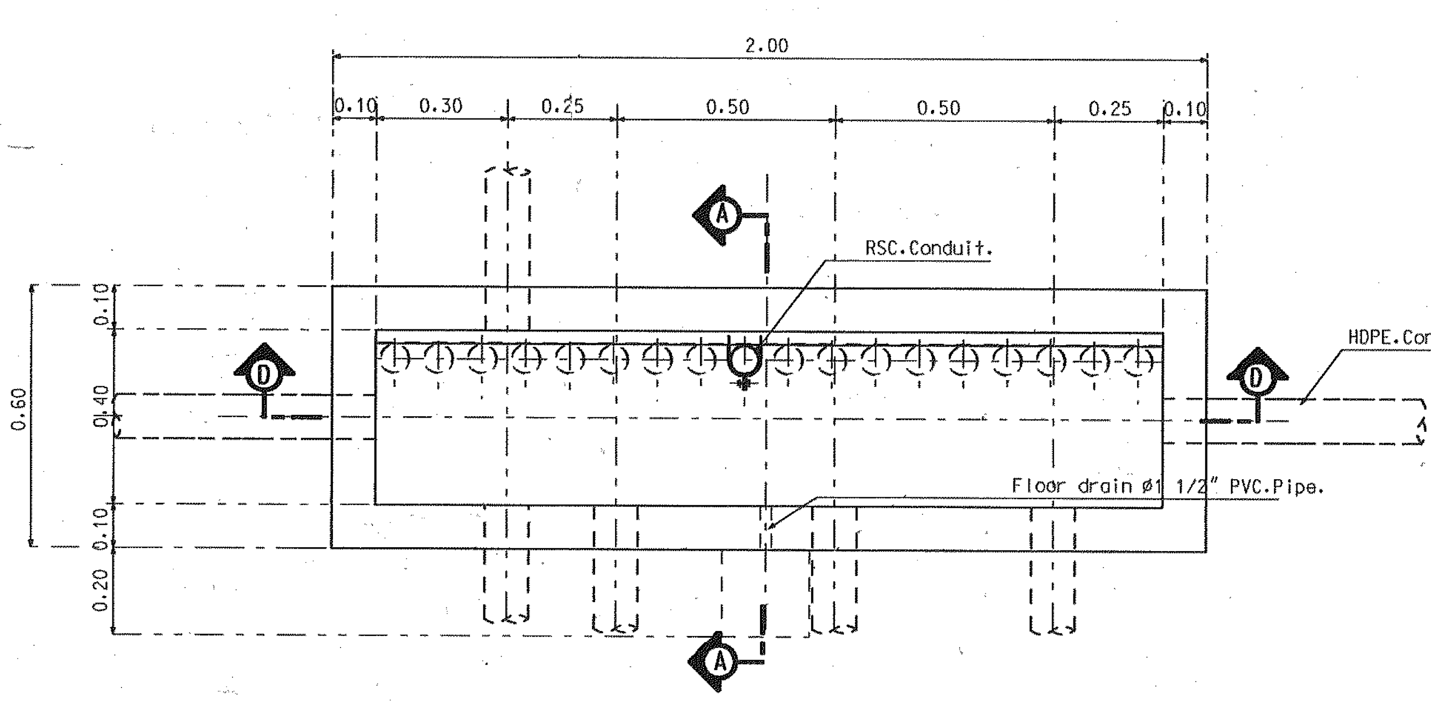
SECTION A - A 1:20



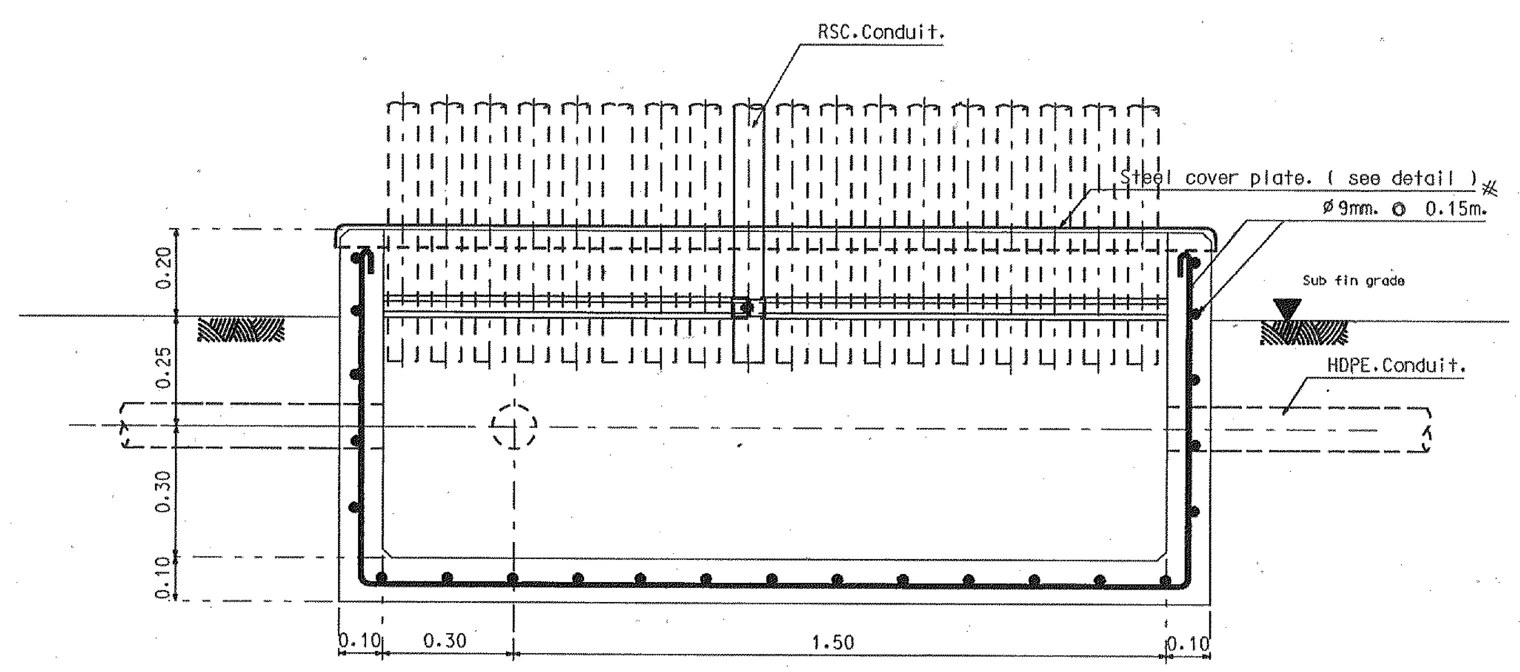
SECTION C - C 1:20



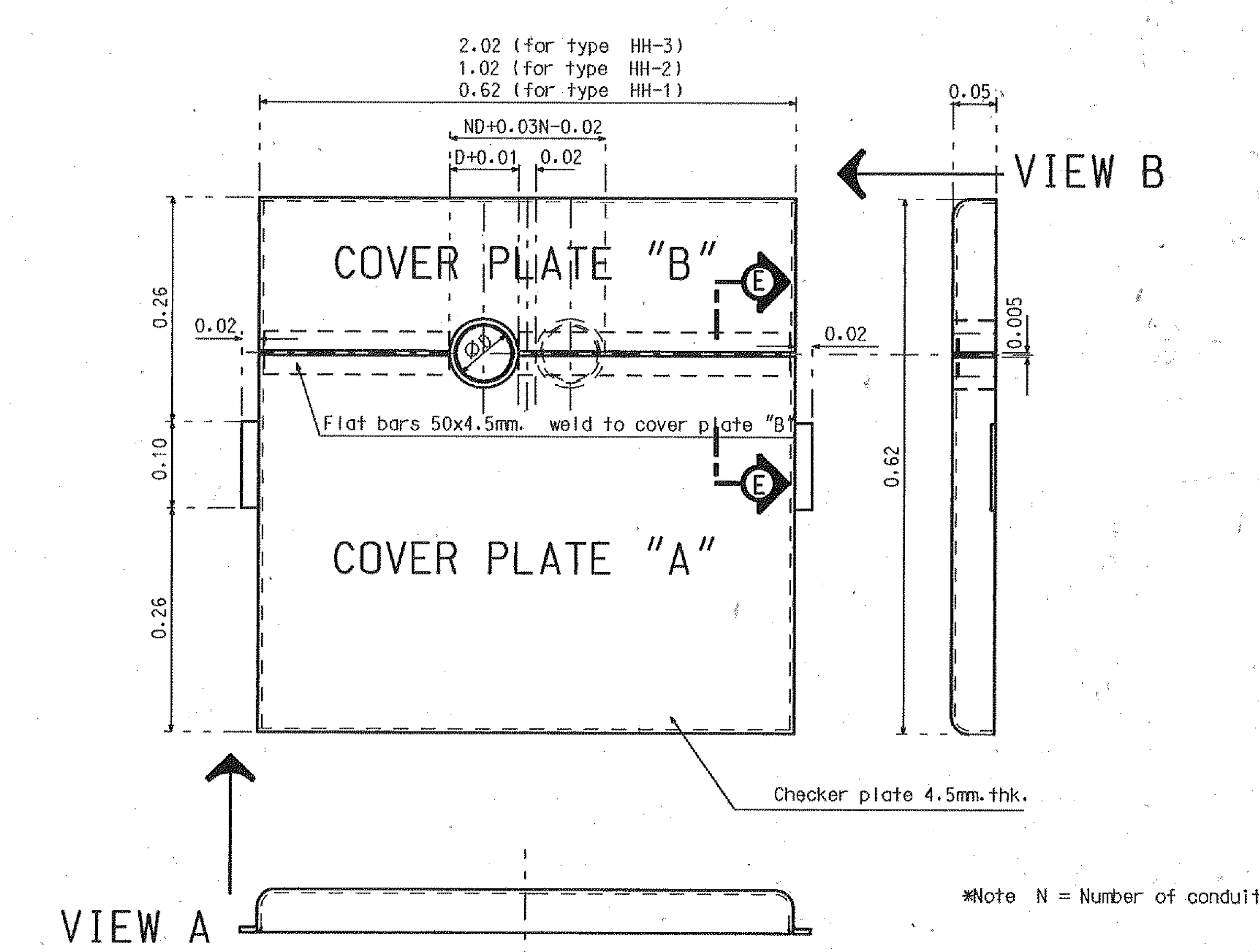
SECTION E - E



PLAN OF TYPICAL HANDHOLE TYPE HH-3 1:20



SECTION D - D 1:20



*Note N = Number of conduit.

STEEL COVER PLATE FOR TYPICAL HANDHOLE

CABINET NO. V5
RUN NO. 1304

NO.	JOB ASSIG.	JOB DESCRIPTION & REVISION	DRAWN	DESIGNED	CHECKED	SE.10	SUBMITTED	RECOMMENDED	CONCURRED	APPROVED	DATE
1	-	Add type of handhole type 1 - type 4	-	-	-	-	-	-	-	-	-

CAD CENTER
DO NOT AMEND MANUALLY

ELECTRICITY GENERATING AUTHORITY OF THAILAND

STANDARD DRAWING

REINFORCEMENT OF STANDARD HANDHOLE

DESIGNED	P.Porntep	SE.10	SUBMITTED — CHIEF TRANSMISSION SYSTEM CIVIL ENGINEERING DIV.
DESIGNED			RECOMMENDED — ASST.DIRECTOR TRANSMISSION SYSTEM ENGINEERING DEPT.
DRAWN	P.Porntep		CONCURRED — DIRECTOR TRANSMISSION SYSTEM ENGINEERING DEPT.
CHECKED			
APPROVED	K.L. — DEPUTY GOVERNOR-ENGINEERING		DATE 23/2/96

JOB NO.	REPLACING DWG.NO.	DWG.NO.	REV.
	SD-HH-O-01 REV.0	SD-HH-O-01	00 / 1

file name node directory date

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