**Distribution Services Sector** 

CONSTRUCTION STANDARD FOR UNDERGROUND DISTRIBUTION NETWORK PART 22: 13.8 & 33 KV UNIT SUBSTATION & RMU ROOM



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#### **SDCS-02-22**

Rev.00

#### CONSTRUCTION STANDARDS FOR UNDERGROUND DISTRIBUTION NETWORK

## PART 22: 13.8 & 33 KV UNIT SUBSTATION & RMU ROOM

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CONSTRUCTION STANDARDS FOR UNDERGROUND DISTRIBUTION NETWORK

PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM



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UNIT SUBSTATION & RMU (13.8KV) 500KVA, 1000KVA & 1500KVA ROOM SIZE: 4M X 5M

# الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 3 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 -4000-1800 TRENCH 600 UNIT SUBSTATION -1200-600-4000

FIG.01A - 500KVA U/S & RMU (13.8KV)

## الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector Diligently Serving You CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 4 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 4000-2200-**TRENCH** 600 UNIT SUBSTATION 4000 FIG.01B - 1000KVA U/S & RMU (13.8KV) ALL DIMENSIONS ARE IN MILLIMETER

# الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 5 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 -4000-2400 TRENCH 600 UNIT SUBSTATION 4000 FIG.01C - 1500KVA U/S & RMU (13.8KV)

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الشركة السعودية للكهرباء Saudi Electricity Company

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Diligently Serving You

UNIT SUBSTATION & RMU (33KV)
500KVA, 1000KVA & 1500KVA
ROOM SIZE: 4M X 5M

## الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 7 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 -4000-2000-TRENCH 600 UNIT SUBSTATION -1200-600-4000 FIG.02A - 500KVA U/S & RMU (33KV)ALL DIMENSIONS ARE IN MILLIMETER

## الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 8 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 -4000--2300-**TRENCH** 600 UNIT SUBSTATION -1200 4000 FIG.02B - 1000KVA U/S & RMU (33KV)ALL DIMENSIONS ARE IN MILLIMETER

## الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company Distribution Services Sector CONSTRUCTION STANDARDS FOR Issue Date: MAY 2024 Page: 9 of 21 UNDERGROUND DISTRIBUTION NETWORK PART 22:13.8 & 33 KV UNIT SUBSTATION & RMU ROOM SDCS-02-22 REV. 00 4000--2400-**TRENCH** UNIT SUBSTATION 600 600-4000 FIG.02C - 1500KVA U/S & RMU (33KV)ALL DIMENSIONS ARE IN MILLIMETER

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UNIT SUBSTATION & RMU (13.8KV) 500KVA, 1000KVA & 1500KVA ROOM SIZE: 5M X 4M

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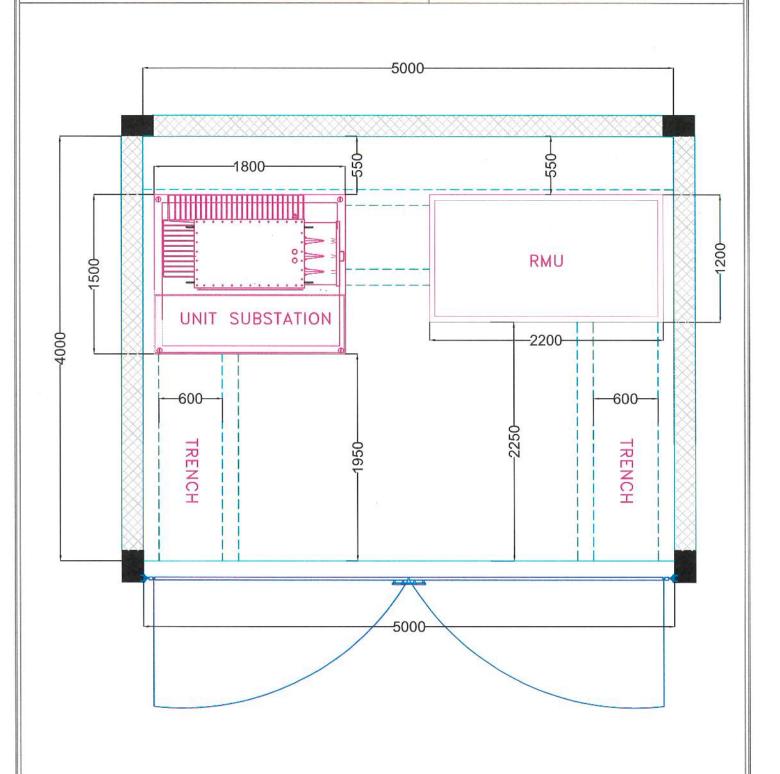


FIG.03A - 500KVA U/S & RMU (13.8KV)

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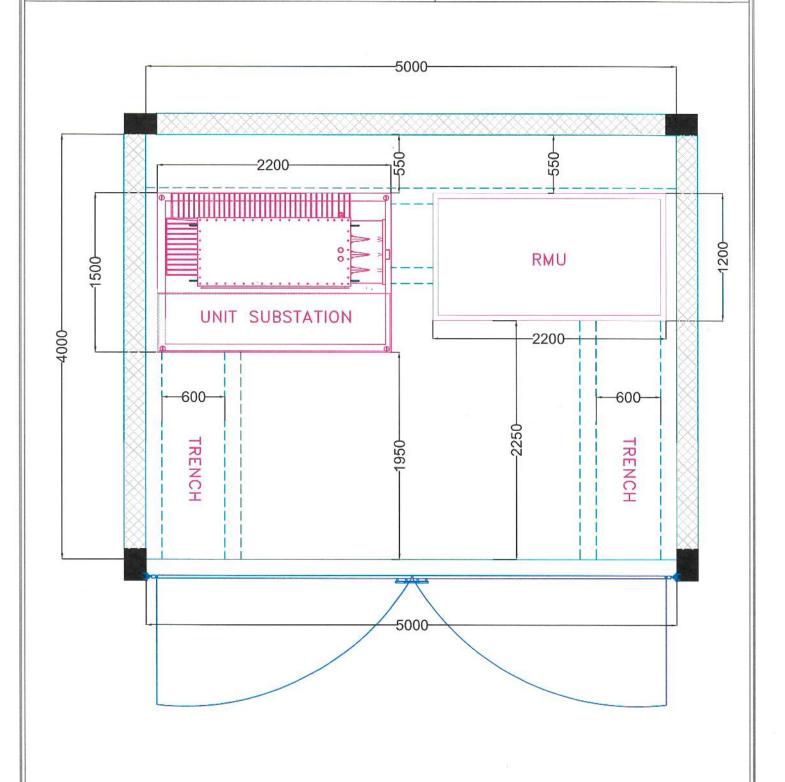


FIG.03B - 1000KVA U/S & RMU (13.8KV)

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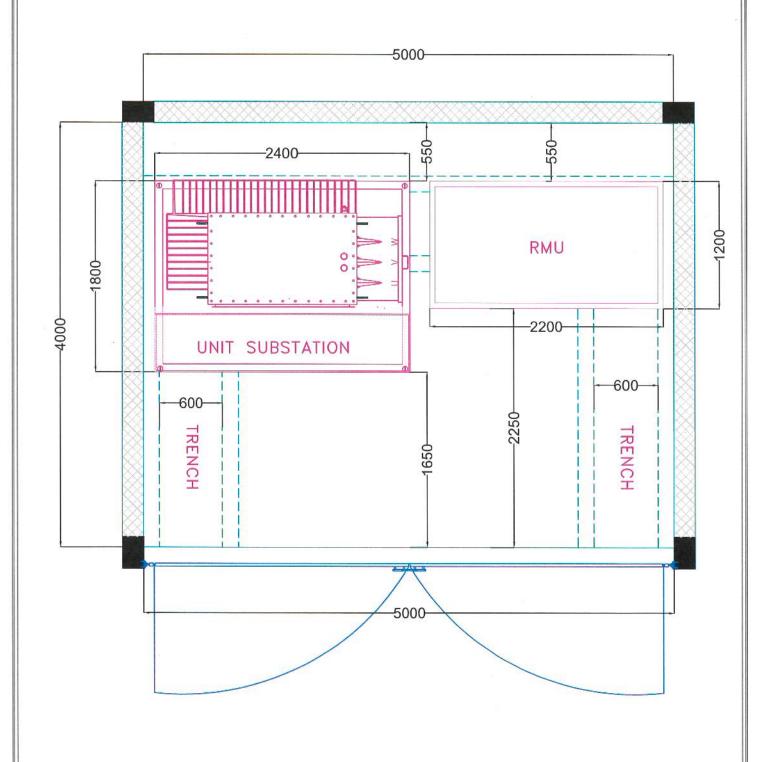


FIG.03C - 1500KVA U/S & RMU (13.8KV)

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UNIT SUBSTATION & RMU (33KV) 500KVA, 1000KVA & 1500KVA ROOM SIZE: 5M X 4M

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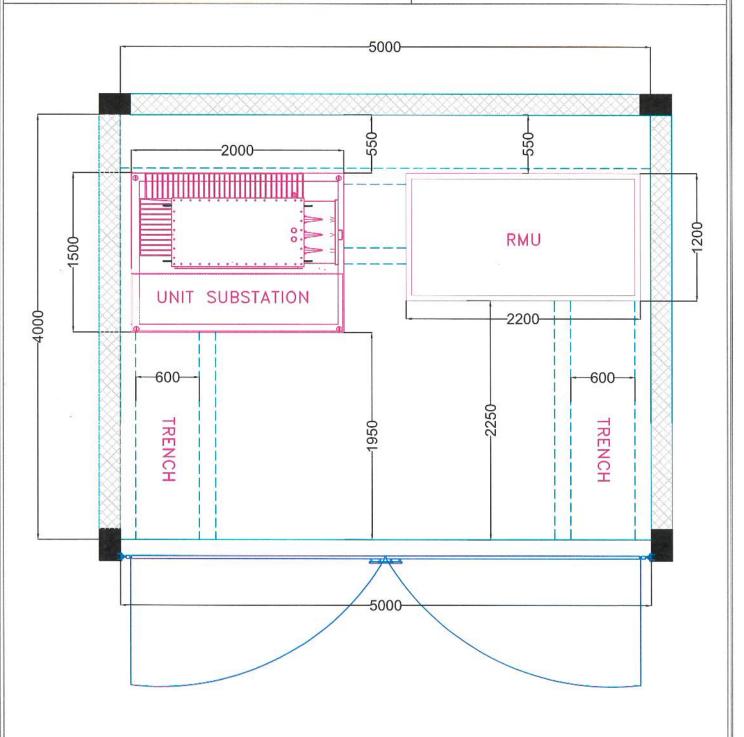


FIG.04A - 500KVA U/S & RMU (33KV)

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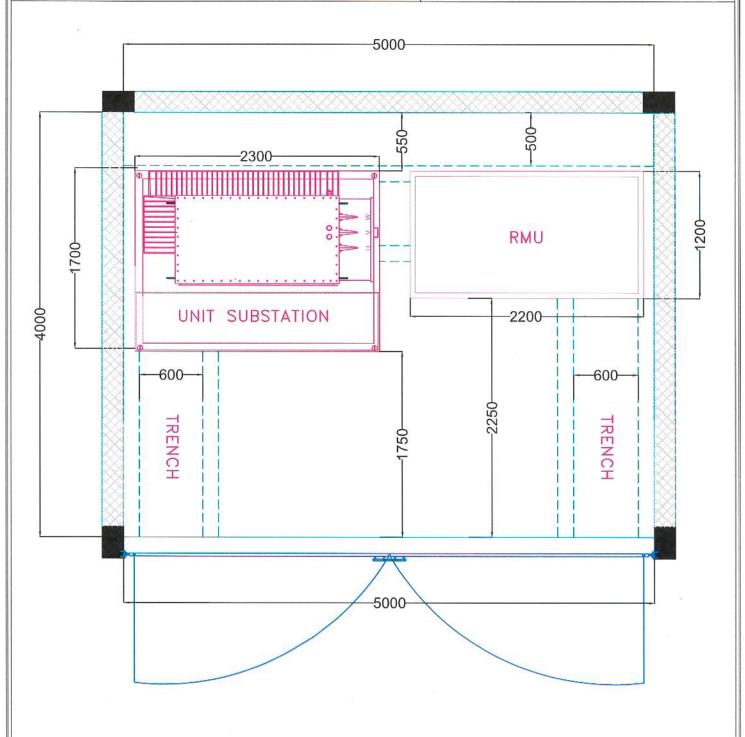


FIG.04B - 1000KVA U/S & RMU (33KV)



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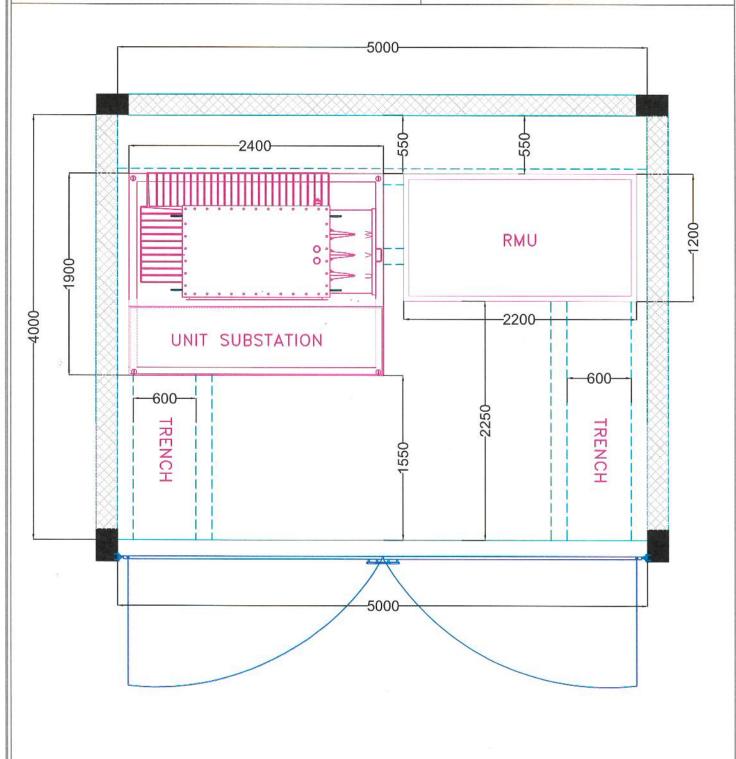


FIG.04C - 1500KVA U/S & RMU (33KV)

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DETAILS OF FRONT DOOR VIEW, DOOR DETAILS VENTILATION DETAILS & ROOM LIGHTING

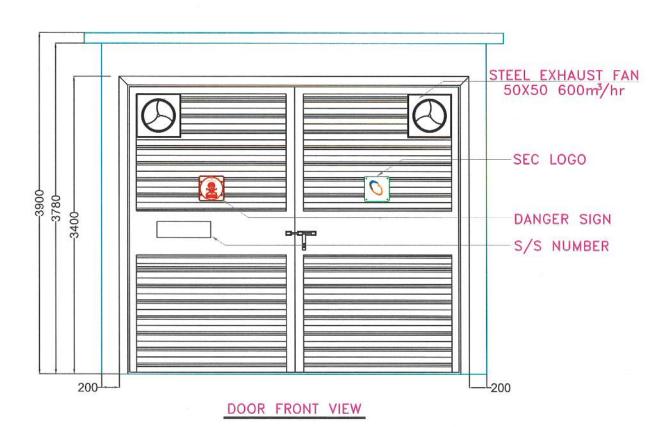
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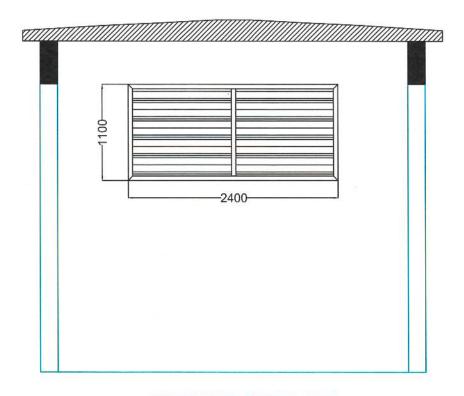
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VENTILATION FRONT VIEW

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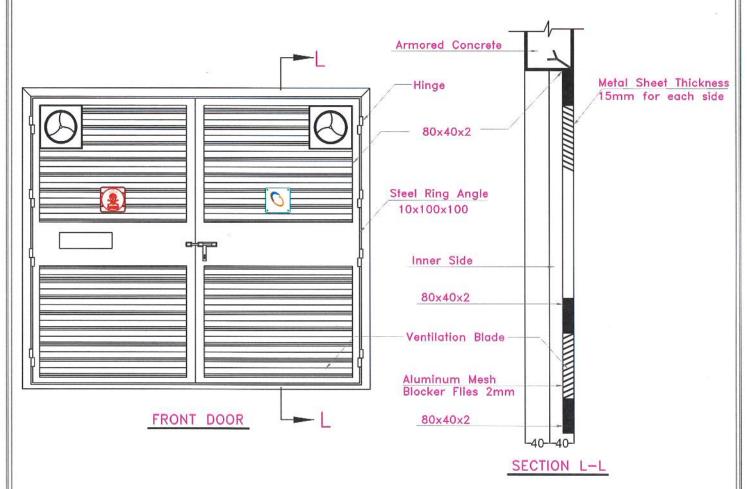
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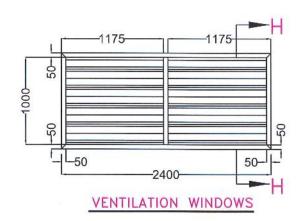


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Note: Other Details Refer to SDCS-02-09

