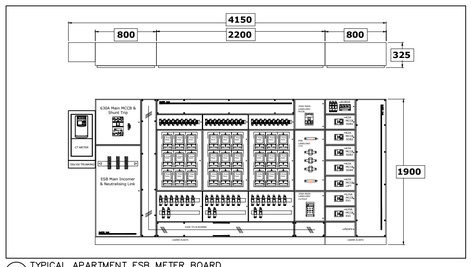
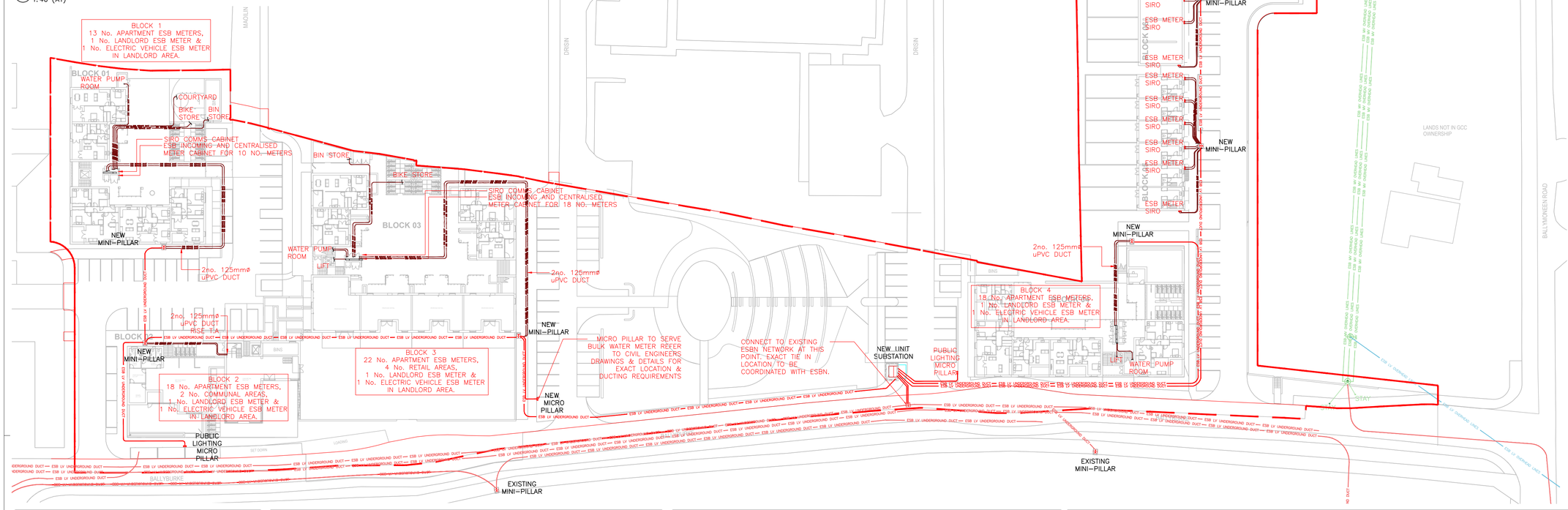
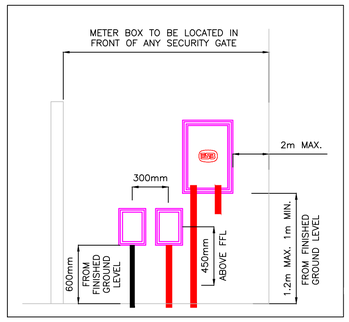
© Copyright Varming Consulting Engineers Ltd.

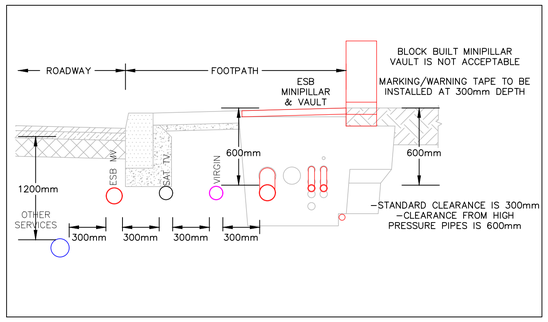


TYPICAL APARTMENT ESB METER BOARD
1:40 (A1)

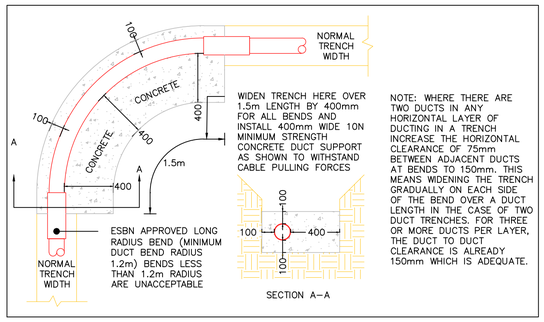




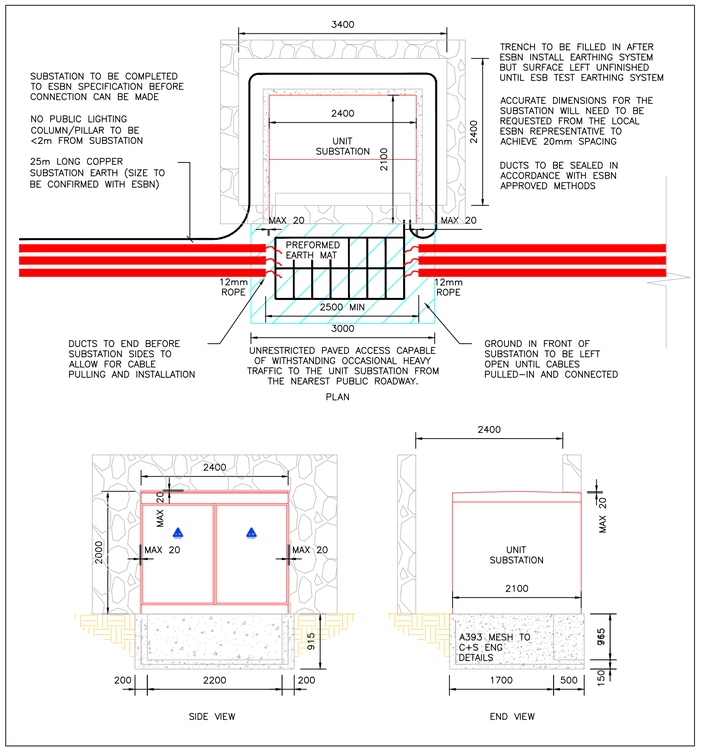
TYPICAL METER BOX LOCATION
1:25 (A1)



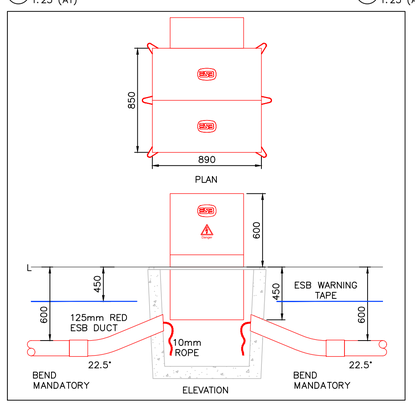
TYPICAL CROSS SECTION OF UNDERGROUND SERVICES AT ESB MINI PILLAR
1:25 (A1)



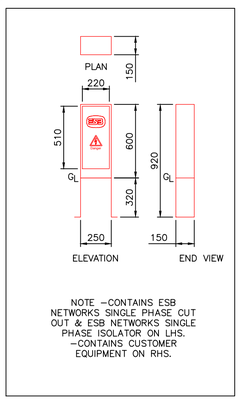
PLAN & CROSS SECTION VIEW OF TRENCH WIDENING AT BEND POSITIONS
1:25 (A1)



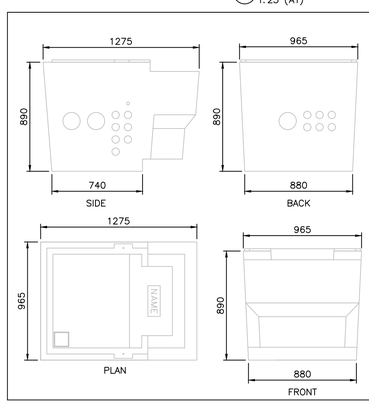
INTEGRATED ESB SUBSTATION
1:50 (A1)



ESB MINIPILLAR DETAIL
1:25 (A1)



MICRO PILLAR
1:25 (A1)



NOTES

1. THE CONTRACTOR SHALL INSTALL AN ESB NETWORKS APPROVED 125mm, 22.5 DEGREE BEND ON EACH MAINS CABLE DUCT ON ENTRY OF DUCT TO A MINIPILLAR VAULT.
2. INSTALL EACH BEND FOR MAINS CABLE DUCTS AT AN UPWARD ANGLE TO ASSIST WITH CABLE PULLING. EACH BEND SHOULD BE CUT FLUSH WITH INTERNAL WALL OF VAULT.
3. INSTALL MAINS CABLE DUCTS THROUGH THE SIDE FACES OF THE MINIPILLAR VAULT ONLY.
4. INSTALL SERVICE CABLE DUCTS AT THE SAME LEVEL (600mm) OR BELOW THE LEVEL OF MAINS CABLE DUCTS.
5. INSTALL SERVICE CABLE DUCTS THROUGH THE SIDE FACES OF THE MINIPILLAR VAULT IN THE CLOSEST KNOCK OUT / OPENINGS TO THE MINIPILLAR.
6. MINIPILLAR BODY TO BE INSTALLED LEVEL, GROUND LEVEL MARK FLUSH WITH GROUND LEVEL AND FRONT FACE OF MINIPILLAR FLUSH WITH INSIDE LINE OF FOOTPATH.
7. BLOCK BUILT MINIPILLAR VAULTS ARE NOT ACCEPTABLE. PLASTIC VAULTS TO BE BACKFILLED WITH 15N CONCRETE.
8. MINIPILLAR VAULTS ARE TO BE BEDDED SECURELY.
9. MINIPILLAR VAULTS ARE TO BE CLEAN AND FREE FROM ANY OBSTRUCTIONS. THERE SHALL BE NO GAP BETWEEN THE VAULT AND MINIPILLAR.
10. PREFABRICATED MINI PILLAR VAULTS ARE TO BE INSTALLED ACCORDING TO DETAILED MANUFACTURER'S INSTRUCTIONS SUPPLIED WITH EACH UNIT.
11. MINIPILLARS TO BE INSTALLED WITH EARTHING AS PER ESB NETWORKS SPECIFICATION.

MINIPILLAR VAULT DETAIL
1:25 (A1)

General Notes

A. DO NOT SCALE FROM THIS DRAWING- WORK ONLY FROM FIGURED DIMENSIONS.
B. ALL ERRORS & OMISSIONS TO BE REPORTED TO THE CONSULTING ENGINEER
C. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND STRUCTURAL ENGINEER'S DRAWINGS.
D. REFER TO DOCUMENT REGISTER FOR DESCRIPTION OF STATUS CODES.

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS & CONTRACT DOCUMENTS.
2. THE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ETCI REGULATIONS, ESB NETWORKS NATIONAL CODE OF PRACTICE & LOCAL AUTHORITY REQUIREMENTS.
3. THE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ETCI REGULATIONS AND THE ESB NETWORKS NATIONAL CODE OF PRACTICE.
4. THE ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR THE CO–ORDINATION OF ALL UNDERGROUND SERVICES IN CONJUNCTION WITH THE MAIN CONTRACTOR.
5. THE CONTRACTOR IS TO ALLOW FOR THE SUPPLY AND INSTALLATION OF ACCESS CHAMBERS ON DUCTING IN ACCORDANCE WITH ESB SPECIFICATION.
6. WIDE RADIUS & GENTLY SWEEPING BENDS TO BE USED ON DUCTING SET IN CONCRETE IN ACCORDANCE WITH ESB SPECIFICATION.
7. ALL ESB DUCTING TO BE LOCATED IN FOOTPATHS & SOFT LANDSCAPING.
8. ACCESS CHAMBERS SHALL BE INSTALLED ON DUCTING AS REQUIRED AT CHANGES IN DIRECTION & ON DUCT RUNS IN EXCESS OF 35m.
9. A MINIMUM COVER OF 600mm SHALL BE PROVIDED TO DUCTING IN GRASS MARGINS WITH A MINIMUM COVER OF 750mm PROVIDED AT ROAD CROSSINGS.
10. AT ALL TIMES THE CONTRACTOR IS TO BE AWARE OF THE PRESENCE OF EXISTING UNDERGROUND SERVICES IN THE VACINITY OF THE SITE.
11. REFER TO INDIVIDUAL HOUSE LAYOUT DRAWINGS FOR EXACT METER/ETU LOCATIONS.

ESB MV/LV UNDERGROUND CABLE ROUTES — NEW 125mmø ESB MV/LV UNDERGROUND DUCTING
ESB MV OVERHEAD LINES — NEW ESB MV OVERHEAD LINES
ESB MV UNDERGROUND DUCT — NEW ESB MV UNDERGROUND CABLE ROUTE
ESB MV OVERHEAD LINES — ESB EXISTING MV OVERHEAD LINES
ESB LV OVERHEAD LINES — ESB EXISTING LV OVERHEAD LINES
ESB SERVICE DUCT — 2 NO. 50mmø NEW RED ESB SERVICE DUCT
ESB MINIPILLAR
LIGHTING MICROPILLAR
ESB SUBSTATION

CAUTION:

BEWARE OF EXISTING SERVICES. ESB NETWORKS TO BE PRESENT FOR ANY WORK TAKING PLACE IN CLOSE PROXIMITY TO THE EXISTING SUBSTATION

IF CABLES ARE DAMAGED OR EXPOSED, CALL THE ESB EMERGENCY NETWORKS NUMBER 1850 372 999

Rev	Status	Date	Description	D.E.
P01	S5	Feb '23	Issue For Part VIII	D.D
P01	S2	JAN '23	DRAFT – SUBJECT TO ESBN DESIGN	D.D.

Revision: S5
Project Drawing Reference: 21832-VCE-XX-XX-DR-E-1000
Status: P01
Varming Project Number: 21832
Date: JAN '23
Checked By: J.G
Drawn By: D.D.
Scale: 1:500 @ A1

Client: Galway City Council

Project Title: Ballyburke Neighbourhood Centre and Social Housing Scheme
Ballyburke, Galway City

Drawing Title: Electrical Services
Proposed Utility Services Infastructure
ESBN Layout

Varming Consulting Engineers Ltd.
Dublin 01 4872300
Cork 021 2375080
Roscommon 090 6602380
Website www.varming.ie
Engineering for the Future

Titleblock Revision: 2019_2