A1

EXISTING ESB MV OHL POLE TO BE RETAINED

PROPOSED 3No. Ø160MM RED ESB MV DUCTS

EXISTING ESB MV OHL TO BE RETAINED

EXISTING ESB MV OHL TO BE RETAINED

EXISTING ESB MV OHL TO BE REMOVED

EXISTING ESB MV OHL POLE TO BE REMOVED

PROPOSED ESB SUBSTATION

APARTMENT BLOCK A: 24 UNITS + LL

APARTMENT BLOCK B: 32 UNITS + LL

APARTMENT BLOCK C: 29 UNITS + LL

BLOCK A

BLOCK B

BLOCK C

BLOCK D

BLOCK E

BLOCK F

BLOCK G

EXISTING ESB MV OHL TO BE REMOVED OR DIVERTED

EXISTING ESB MV OHL TO BE REMOVED

PROPOSED 3No. Ø160MM RED ESB MV DUCTS

PROPOSED ESB SUBSTATION

APARTMENT BLOCK E: 2 UNITS + LL

APARTMENT BLOCK G: 2 UNITS + LL

BALALLY SOUTH 847 33

EXISTING ESB MV OHL POLE TO BE REMOVED OR RELOCATED

LIAISE WITH ESB EARLY ON

APARTMENT BLOCK F: 6 UNITS + LL

EXISTING ESB MV OHL POLE TO BE REMOVED

O'REILLYS 290 5

TO EXISTING ESB OHL

TO EXISTING ESB OHL

TO EXISTING ESB OHL

Existing trees of varying heights

Proposed trees of varying heights

Existing trees of varying heights

Proposed boundary wall - 600mm offset from existing Concrete post and concrete infill panels to str. eng. details.

Glen View

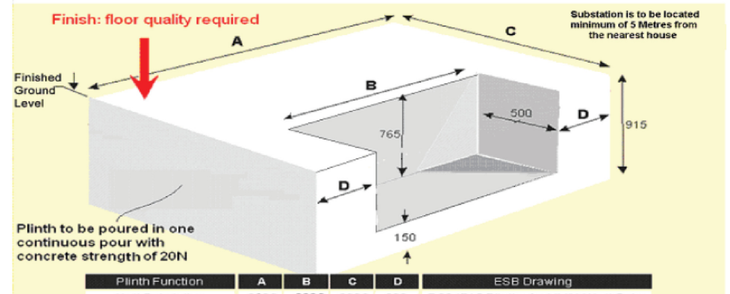
Blackglen Road

New pedestrian entrance from Blackglen Road. Opening to be created and gate to be installed.

Substation Kiosk Foundation Plinth

Finish: floor quality required

Substation is to be located minimum of 5 Metres from the nearest house



Plinth to be poured in one continuous pour with concrete strength of 20N

Plinth Function	A	B	C	D	ESB Drawing
Unit Substation	2600	2200	2200	200	D204710 Plinths for MV/LV Unit Subs.
Kiosk	2000	1200	1200	390	D204945 Plinths for 3 or 4 bay RMU

If plinth is not level, Substation will not be installed.

PACKAGED SUBSTATION PLINTH DETAIL

LEGEND

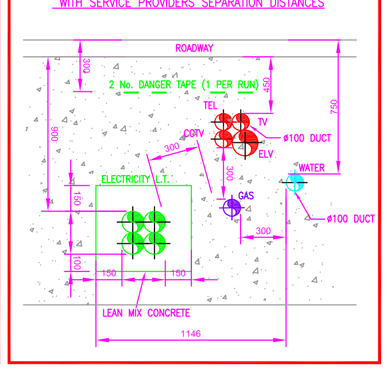
- PROPOSED ESB LV DUCT ø125mm RED
- PROPOSED ESB MV DUCT ø160mm RED
- PROPOSED ESB OHL
- EXISTING ESB OHL TO BE REMOVED
- EXISTING ESB OHL
- MANHOLE FOR DRAWING WIRES, ACCESS AND MAINTENANCE.
- MPn ESB MINIPILLAR "n" C/W VC2 VAULT IMMEDIATELY IN FRONT
- ø50mm RED DUCT TO MINIPILLAR "n"
- ø125mm RED ELECTRICAL DUCT
- EVC ELECTRIC VEHICLE DUAL CHARGER OUTLET, GROUND MOUNTED, WITH A SEPARATE COMPARTMENT FOR METER
- EV ELECTRIC VEHICLE CAR CHARGER DNO CUTOFF & METER

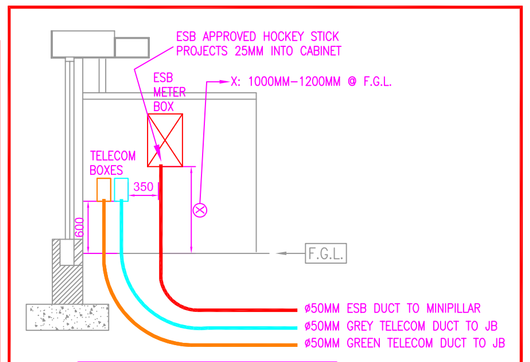
NOTES:

1. USE ONLY SOLID WALL HIGH IMPACT RESISTANCE ESB NETWORKS APPROVED RED DUCTING TO IS 370 COLOUR STANDARD AND ESB NETWORKS SPECIFICATION 16113 (3.8MM MINIMUM WALL THICKNESS µPVC FOR 125MM DUCTS). DISCOLOURED DUCT NOT ACCEPTABLE.
2. LIGHTWEIGHT, FLEXIBLE CORRUGATED TWIN WALL DUCTING IS NOT ACCEPTABLE TO ESB NETWORKS IRRESPECTIVE OF MANUFACTURER
3. DUCTS SHALL BE LAID WITH THE LEGEND FACING UPWARDS, IN A STRAIGHT LINE, ROPED USING 12MM POLYPROPILENE ROPE WITH CERTIFIED SAFE BREAKING LOAD OF 1.5 TONS.
4. THE INSTALLATION SHALL COMPLY WITH THE ESB'S "STANDARD SPECIFICATION FOR ESB NETWORKS MV/LV NETWORKS DUCTING".
5. THE THERMAL RESISTIVITY OF THE DUCT SURROUND MATERIAL MUST BE MAXIMUM 1.0K.M/WATT @0% MOISTURE CONTENT. ONLY ESB NETWORKS APPROVED UNWASHED SAND GRADED TO BS882 STANDARD OR EQUIVALENT ESB NETWORKS APPROVED MATERIAL IS ACCEPTABLE. PEA GRAVEL AND FOAM CONCRETE ARE UNACCEPTABLE.
6. AN IDENTIFYING RED TAPE MUST BE PLACED ON TOP OF THE SAND AND A YELLOW 300mm FROM THE SURFACE.
6. A MINIMUM DEPTH OF 450MM IS REQUIRED IN ESTABLISHED FOOTWAYS. 600MM IN NEW HOUSING ESTATE CARRIAGEWAYS & FOOTWAYS AND ALL GRASSED AREAS. 750MM ALL NON-HOUSING ESTATE CARRIAGEWAYS.

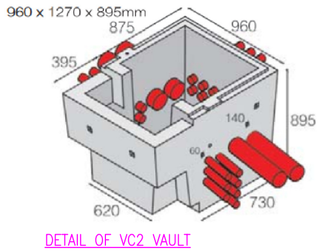
PROPOSED PACKAGED SUBSTATION

TYPICAL TRENCH DETAIL – SCALE = NTS
SEPARATION DISTANCES TO BE CONFIRMED WITH SERVICE PROVIDERS SEPARATION DISTANCES



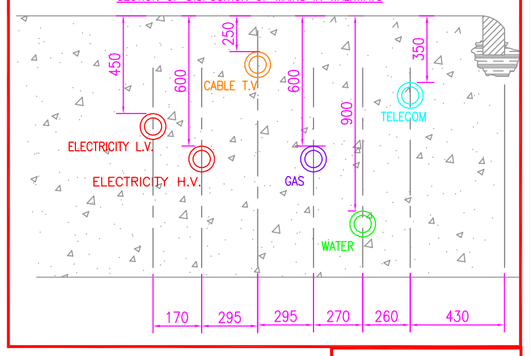


DETAIL 'A' – TYPICAL UTILITY METER 'GOSSIP-WALL' ARRANGEMENT.



DETAIL OF VC2 VAULT

SECTION OF DISPOSITION OF MAINS IN WALKWAYS



A.3.4

NOTES:

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, C&S ENGINEERS DRAWINGS & SPECIFICATIONS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
3. DO NOT SCALE – WORK TO FIGURE DIMENSIONS ONLY.

IHEEM

Qualitas Veritas ISO 9001-2015

ENGINEERS IRELAND cpd ACCREDITED COMPANY

Referenced drawings

Dwg. No.	Dwg. Title

Issue register

Rev.	Date	Description	Dwn.	Chkd.	Apprvd.
T1	11/10/24	TENDER ISSUE	HP	PP	PP

Client: DUN LAOGHAIRE–RATHDOWN COUNTY COUNCIL

Job Description: 129 HOUSING UNITS IN BLACKGLEN ROAD, DLR, Co. DUBLIN

Status: TENDER ISSUE

Drawing Title: ESB SITE SERVICES LAYOUT

Project No:	Drawing Ref:	Rev:
23ME022	ME–1000(A)	T1

Date:	Scale:	
11/04/2024	1:400 @ A1 (1:800@A3)	
Drawn By:	Checked By:	Approved By:
H.P.	B.C.	B.C.

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