

- 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.

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS & CONTRACT DOCUMENTS.
2. THE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ETSB REGULATIONS, ESB NETWORKS NATIONAL CODE OF PRACTICE & LOCAL AUTHORITY REQUIREMENTS.
3. THE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ETSB REGULATIONS AND THE ESB NETWORKS NATIONAL CODE OF PRACTICE.
4. THE MECHANICAL & ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL UNDERGROUND SERVICES IN CONJUNCTION WITH THE MAIN CONTRACTOR.
5. WIDE RADIUS & GENTLY SWEEPING BENDS TO BE USED ON DUCTING SET IN CONCRETE IN ACCORDANCE WITH ESB SPECIFICATION.
6. A MINIMUM COVER OF 600mm SHALL BE PROVIDED TO DUCTING IN GRASS MARGINS WITH A MINIMUM COVER OF 750mm PROVIDED AT ROAD CROSSINGS.



Engineering
for the Future

			
QUALITY I.S. 9001:2015 CERTIFIED	HEALTH & SAFETY OHSAS 18001:2007	ENVIRONMENT I.S. 14001:2015 CERTIFIED	
NSAI Certified	NSAI Certified	NSAI Certified	

Diagram illustrating the minimum clearance for a 150mm diameter service duct. The diagram shows a cross-section of a roadway and footpath. A 150mm diameter service duct is shown with a 300mm clearance from the edge of the footpath. The duct is labeled "INCOMING LV" and "SERVICE DUCTS STATIONS". A "MINIPILLAR & VAULT" is shown above the duct. The "MARKING/WARNING TAPE TO BE INSTALLED AT 300mm DEPTH" is shown on the footpath surface. The "STANDARD CLEARANCE IS 300mm - CLEARANCE FROM HIGH PRESSURE PIPES IS 600mm" is noted.

Technical drawing of a 125mm uPVC duct with a 10mm rope, showing plan and elevation views.

PLAN View:

- Overall height: 850
- Overall width: 890
- Label: PLAN

ELEVATION View:

- Overall height: 600
- Internal height (duct): 450
- Internal width (duct): 125mm uPVC DUCT
- Internal rope: 10mm ROPE
- Bend angle: 22.5°
- Labels: BEND MANDATORY, WARNING TAPE

WIDEN TRENCH HERE OVER 1.5m LENGTH BY 400mm FOR ALL BENDS AND INSTALL 400mm WIDE 10N MINIMUM STRENGTH CONCRETE DUCT SUPPORT AS SHOWN TO WITHSTAND CABLE PULLING FORCES

LONG RADIUS BEND (MINIMUM DUCT BEND RADIUS 1.2m) BENDS LESS THAN 1.2m RADIUS ARE UNACCEPTABLE

NOTE: WHERE THERE ARE TWO DUCTS IN ANY HORIZONTAL LAYER OF DUCTING IN A TRENCH INCREASE THE HORIZONTAL CLEARANCE OF 75mm BETWEEN ADJACENT DUCTS AT BENDS TO 150mm. THIS MEANS WIDENING THE TRENCH GRADUALLY ON EACH SIDE OF THE BEND OVER A DUCT LENGTH IN THE CASE OF TWO DUCT TRENCHES. FOR THREE OR MORE DUCTS PER LAYER, THE DUCT TO DUCT CLEARANCE IS ALREADY 150mm WHICH IS ADEQUATE.

SECTION A-A

Technical drawings of the 'The Box' storage unit, showing four views with dimensions:

- SIDE:** Dimensions are 1275 (width), 890 (height), and 740 (depth).
- BACK:** Dimensions are 965 (width), 890 (height), and 880 (depth).
- PLAN:** Dimensions are 1275 (width) and 965 (depth). The drawing shows a top-down view of the unit with a 'NAME' label on the right side.
- FRONT:** Dimensions are 965 (width), 890 (height), and 880 (depth).

MINIPILLAR VAULT DETAIL
1:25 (A1)

1. THE CONTRACTOR SHALL INSTALL AN APPROVED 125mm, 22.5 DEG 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 15M CONCRETE.
8. MINIPILLAR VAULTS ARE TO BE BEDDED SECURELY.
9. MINIPILLAR VAULTS ARE TO BE CLEAN AND FREE FROM ANY OTHER OBSTACLE. 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.