

Appendix 2B

PLANNING SECTION RECEIVED

07 APR 2021

LONGFORD COUNTY COUNCIL



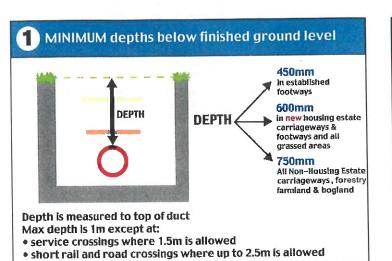


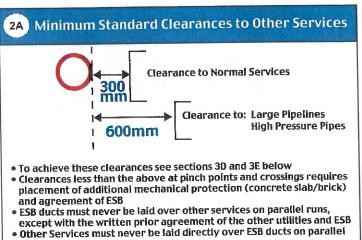
Standard Specification for ESB MV/LV Networks Ducting (Minimum Standards)

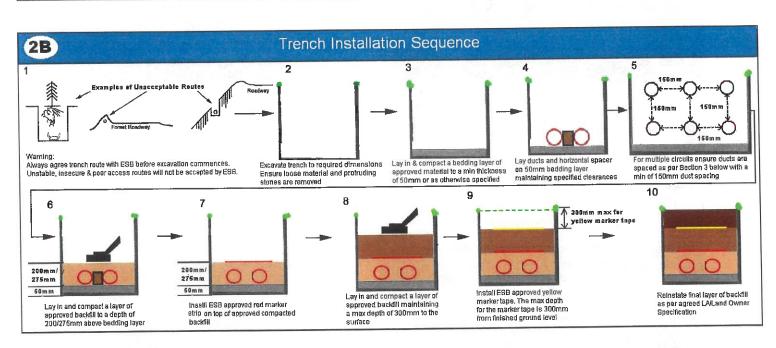
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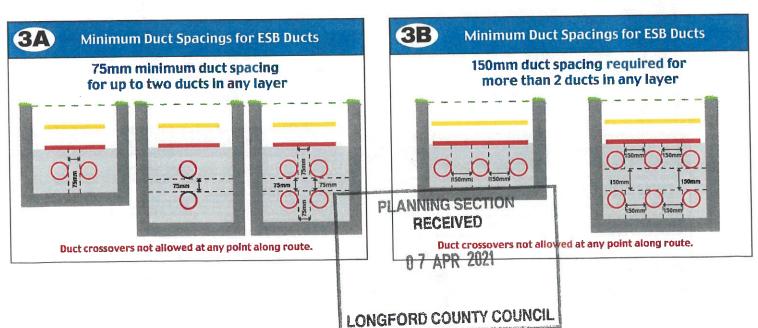
Note 1: ESb Networks reserves the right not to accept ducting which does not conform to these standards and dimensions Note 2: Refer to ESB Networks for Specific job Specification. These instructions do not apply to 38kV/110kV/220kV cable Note 3: All materials (ducts, marker tapes/strips, duct surrounds, mandrels and brushes) must be ESB approved materials

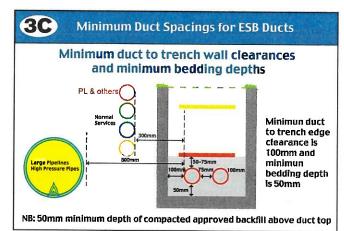


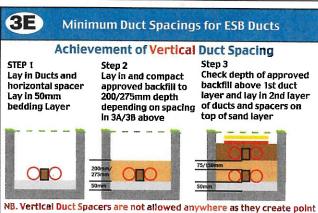


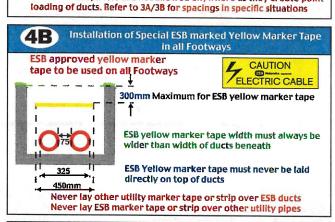


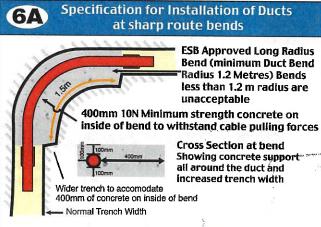






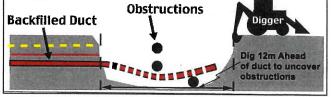


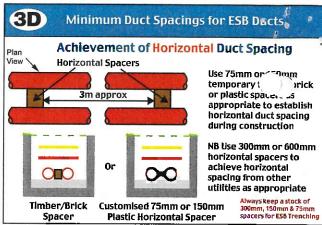


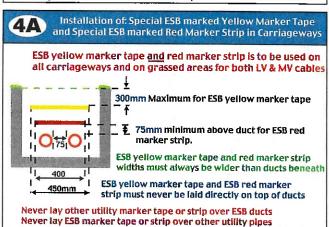


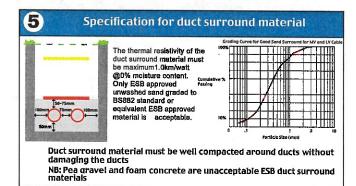


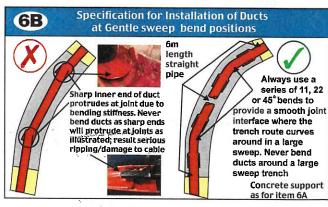
In ground with obstructions and other utility service crossings by opening ground 12m ahead of backfilled duct, wherever practical to do so. This safety obligation, which may require use of steel plating, allows the duct installer to pick the least bendy duct route through utility crossings and obstructions. Otherwise, numerous sharp unrecorded duct route deviations will be present making cable installation considerably more difficult and less safe for the cable installer.

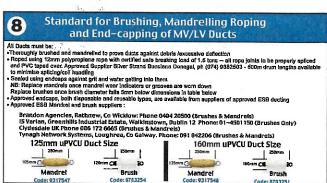




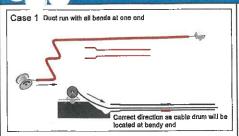


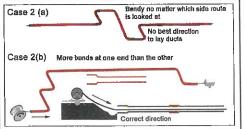


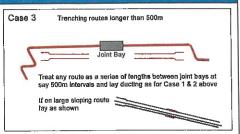




Guidance on Correct Direction to Lay Spigot and Socket Ducting





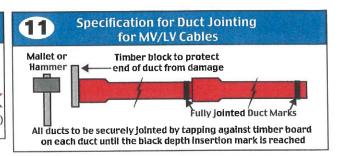


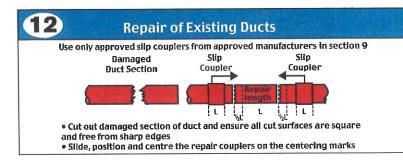
1 (1) Approved ESB Ducting for MV/LV Cables

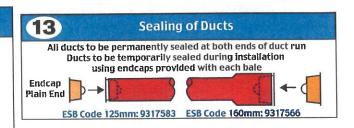
 Use only solid wall high impact resistance ESB approved PVC red ducting to IS 370 colour standard and ESB specification 16113 (3.8mm minimum wall thickness) Discoloured or unidentified ducting not acceptable. All duct material must be approved by ESB Networks.

Lightweight flexible corrugated twinwall ducting is not acceptable to ESB irrespective of manufacturer

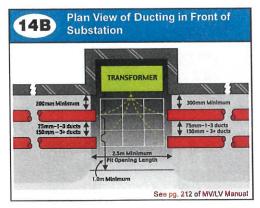
Current approved Duct and duct bend manufacturers are: Lynplast (bend fittings only) Radius Systems, Wavin, Quality Plastics, MFP Plastics, Cork Plastics, Emtelle

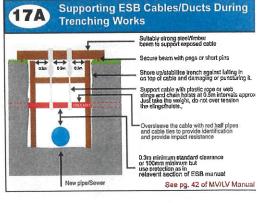


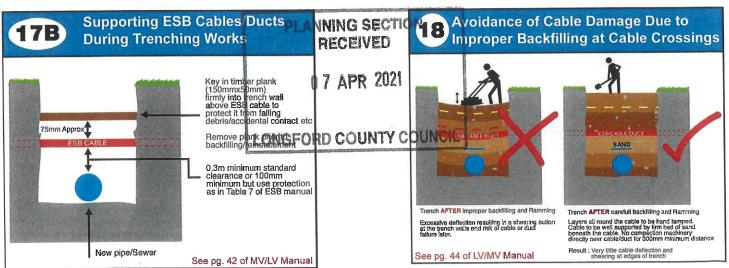


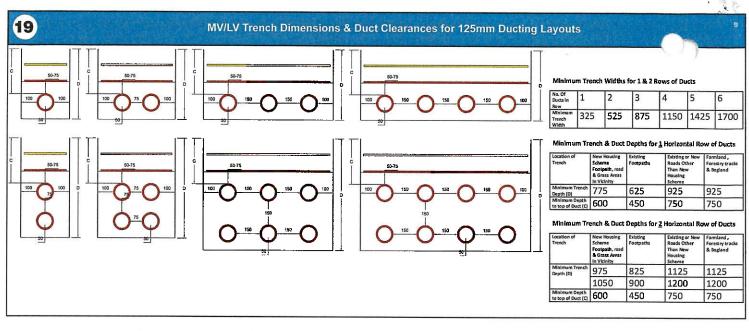


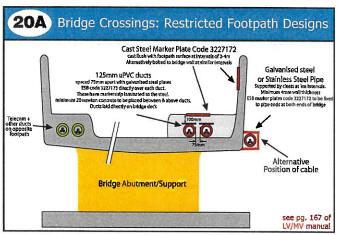








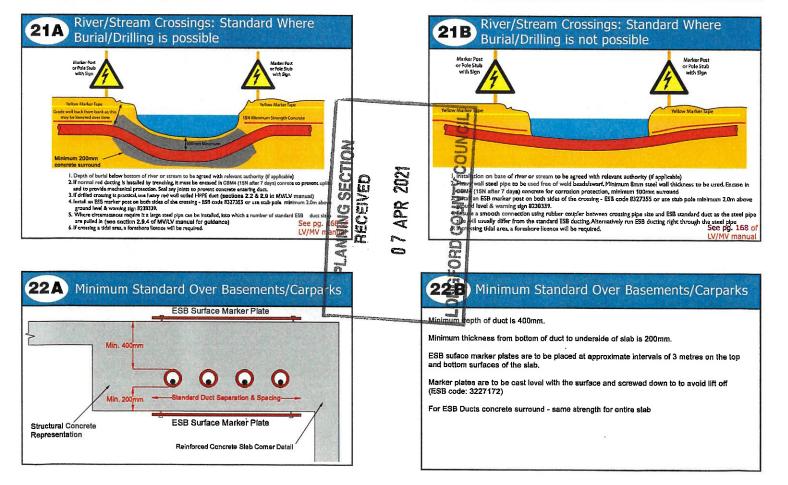




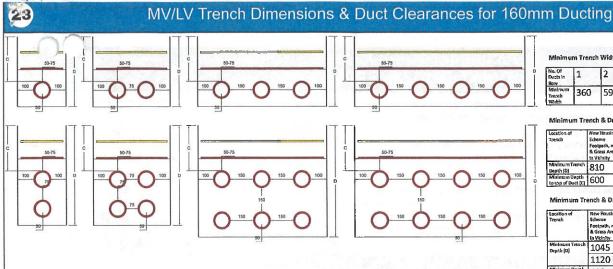
20B Bridge Crossings: Restricted Footpath Designs

- 1. The design must be agreed with the bridge authority. Position in footpath is
- 2. Minimum cover over ducts on footpath 100mm.
- 3. Where duct cover is > 300mm, marker strip & surface marker plates can be
- 4. Red uPVC ducting is not suitable for cable run external to bridges.
- 5. Where possible galvanised steel/stainless steel piping should be used, all joints must be free of weld burrs on inside. Alternatively heavy duty 10mm wall thickness black HDPE material with cast steel marker plates attached must be used to permanently warn of presence of electric cable.

see pg. 167 of LV/MV manual



Standard Specification for ESB MV/LV Networks Ducting (Minimum Standards) to Page 5 of 6



Minimum Trench Widths for 1 & 2 Rows of Ducts

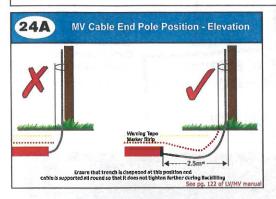
No. Of Ducts in Now	1	2	3	4	5	6
Minimum	360	595	980	1290	1600	1910

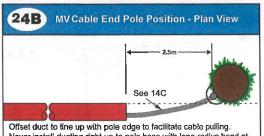
Minimum Trench & Duct Depths for 1 Horizontal Row of Ducts

Trench	New Housing Scheme Footpath, mad & Grass Areas In Victority	Existing Footpaties	Existing or New Roads Other Thun New Housing Scheme	Farmland , Forestry tracks & Bogland	
Minimum Trench Depth (D)	810	660	960	960	
Minimum Depth to top of Duct ICI	600	450	750	750	

Minimum Trench & Duct Depths for 2 Horizontal Row of Ducts

Escation of Trench	New Housing Scheme Footpath, mad & Grass Areas In Vicinity	Existing Footpaths	Existing or New Hoads Other Than New Housing Scheme	Farmland , Forestry tracks & Bogland	
Minimum Trench Depth [D]	1045	895	1195	1195	
185 744	1120	970	1270	1270	
Minimum Depth to top of Duck (C)	600	450	750	750	

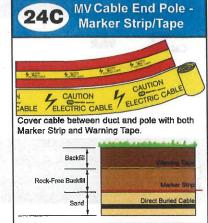


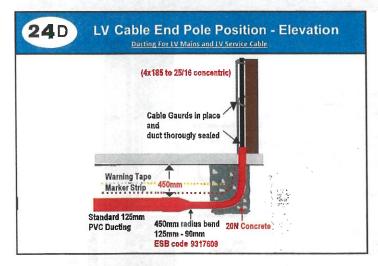


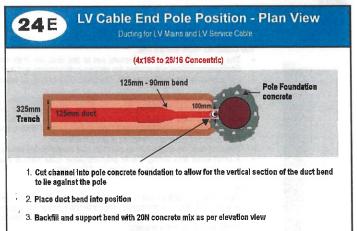
Offset duct to line up with pole edge to facilitate cable pulling. Never install ducting right up to pole base with long radius band at-

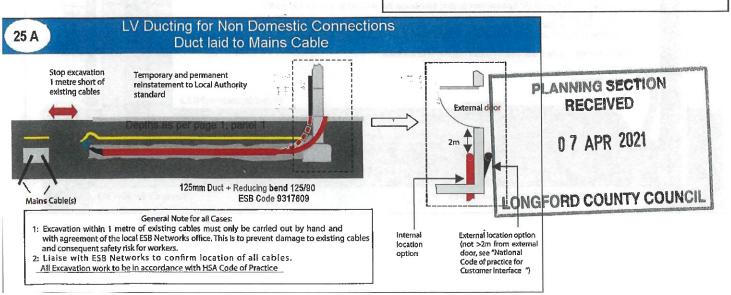
Both marker strip & warning tape to be used between duct & pole. Take precautions to prevent pole toppling.

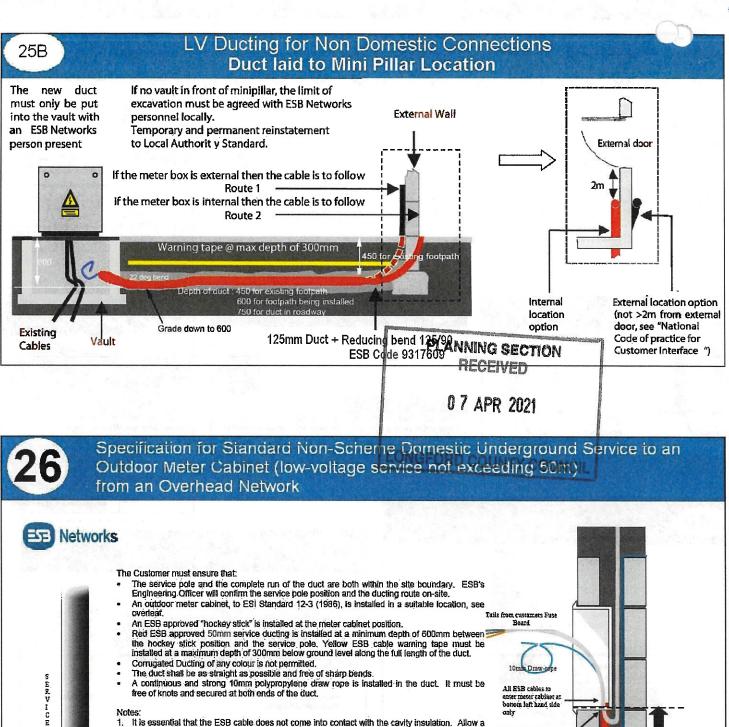
See pg. 211 of LV/MV man











It is essential that the ESB cable does not come into contact with the cavity insulation. Allow a projection of 25mm of the hockey stick into the base of the cabinet.

There must be a minimum clearance of 100mm between the service duct and other services on the house-holder's property

ESB will provide black UV light-resistant ducting from below the finished ground level to the top of the service pole.

For poles more than 50m away from the cabinet, 125mm red ESB approved ducting shall be used with an ESB approved service vault at the junction of the duct and the hockey stick.

Connection will only be made after all above requirements are meet.

Finished Ground level (F.G.L.) ESB yellow warning tape at max. depth of 300mm below finished ground level (F.G.L.)

Red ESB approved 50mm Solid wall MDPE duct @ 600mm min. depth below (F.G.L.)

Doc. DTIS-180803-BNR Rev 8, February 2005

Duct end sealed with plastic wrapped adhesive tape

Stores Code: 9806508

1.0m

nin, to 1.2m

max.

outside

F.G.L.

Hockey Stick projects 25mm into box.

ESB Approved Hockey Stick with 90 degree



Appendix 2C

PLANNING SECTION RECEIVED

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-[HEALTH AND SA	—— EETY	AFE S			OF V			AN ((SSV)	/P)	
	Job Details					Resources Required				Emergency Details		
	Employer Name:			Work	Worker Skills:			Contact Names & Tel No.				
		Workers:							2			
		crific Location:			Plant	Plant/Equipment:			3 First Aider:			
									Location of First Aid Box:			
H									WORK BESTEET BEAUTE			
PART			ust be compl		Hazai	rdous Mater	rials:		Hot Electricity Excavation			
	NOTE: A ne	task or the	ust pe compr environ <mark>men</mark> t	changes.				13	Confined Sp Method Sta	ace Ot tement Yes	her 🗌	
		Before \	Norks Sta	rts the fol	llowing I	MUST be	in place T	ick the 🕜 ci	ircle when confirmed			
	Supervision	FAS safe pass	Eere Plant Eq. Con.		Communication O	WC & Washing O	Canteen	Drying Changing O	Drinking Water	C Fiest Ald	ME	
	SELECT HAZARD OR ACTIVITY	SELECT All controls identified below must be in place before work starts										
	Live Traffic	Lisson/Gardai O		Read Sensor		Taffic Turn Daniel	Traffic Control Control	Vehicle Cook Barrier O	Crash Cury O		Erecting Traffic	
	O O	9	200	9		9	9		9	9		
		(RAY)						(M)	(圖)			
	Working Close to the Public	Liaison O	Fending/Hounding O	Barriers O	Pedestrian Routes	Security O	Traffic Control	Flagment/ Stop-Go Man	Vehicle/ Plant Controller	Surveying O	Examination 6 Inspection	
	Lifting									Dual Marie	Pedestran	
2	Operations	Selection/Suitability	Plan Lift/SWI.	Sensors/Guards	Singer/ Signaller	Check Lifting Gear	Exclusion Zone	& Inspection	Lighting O	Gearing Removal	Controller	
PART						(i o	13-61	0,0				
	Plant and Equipment	Selection/Suitability	Vibration Certrols'	Reverse Warning Devices	Locking Attachments	Roll Over Protection/ No Passengers	Seat Belts	PTO Guard & Access Steps	Hedge Cutting/ Guarding: Signage	Safe Parking O	Traffic Speed Control	
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		Pedestrian Route C	Road Planer/ Finds: Fall Controls	Kerbing Machine! Pinch; Fall Controls	Duraper Auxiliary C	Rock Breaker/ Cab Protection	360 Encavetor/ Check Valves	180 Excevatori Visual Aids: Set Up	Vehicle Recovery	Proximity O	ATV/ Training PPE	
			2	7,00		1	9	Trail .	-		-	
		# 6 #		(FXB)					UNE &			
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		Exclusion Zone	- OH Lines	Strimming	training: Servicing	Air Lance	Signaller		Plant Security	Supervision, regimen	a impection	
	100	A De	IIOV					5	() · ()			
	Hand Tools	Selection Soltability C	Woltage O	Cable Creck/ O	Guards	Generators Outside	Compressor & Whin Checks	Jack Hammer Vibration Controls	Dust Suppression	Chair Saw France	Con Sawi Abrasive Wheels	

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