12mm dia. pull rope in all ducts

AC 20 Dense bin 70/100 rec - Depth: 100mm

- only with the road authority's approval

to IS EN 13108 (delay set)

50mm compacted depth of 14mm (nominal size) cold laid Bitmac

AC 20 dense bin 70/100 rec - 80mm Depth Heavily Trafficked Road - 250mm

trench. ESBN approved material only.

material only.

Subject to the agreement of the Road Authority, CBGM B

Yellow marker warning tape. Must be full width of

Cl.804/808 compacted in accordance with Cl.802

400mm **red** cable protection strip, ESBN approved

Ducts laid in CBGM B (Cl 822), compacted to Cl. - 813.10 and table 8/4 of TII specification for

Roadworks (15n/mm² after 7 days)

12mm dia. pull rope in all ducts

Section Through Permanent Reinstatement of Longitudinal Opening in Roadway With ECC

ROAD LEVEL

825

A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6

B= 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21

C = 63mm: ECC Earth Continuity Conductor

SCALE 1:10

Temporary Reinstatement

EXISTING ROAD BUILD-UP

SOUTH DUBLIN CO. COUNCIL

TO BE CONFIRMED BY

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SDI

See Note 3

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5 75mm compacted depth of AC 20 HDM bin 70/100 rec to CL.906 **EXISTING ROAD BUILD-UP** TO BE CONFIRMED BY Surface dressing to **SOUTH DUBLIN CO. COUNCIL** Joints Sealed (See Note 6) Joints Sealed (See Note 6) **ROAD LEVEL** 75mm depth or match existing depth where it is greater than 75mm 200mm 200mm Yellow marker warning tape. Must be full width of trench. ESBN approved material only. Cl.804/808 compacted in accordance with Cl.802 (Permenant Reinstatement) 400mm **red** cable protection strip, ESBN approved material only. Ducts laid in CBGM B (CI 822), compacted to CI. 813.10 and table 8/4 of TII specification for Roadworks (15n/mm² after 7 days) 12mm dia. pull rope in all ducts 825 A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6

Section Through Permanent Reinstatement of Longitudinal Opening in **Dressed Rural Unbound Roadway With ECC**

ROAD LEVEL

75mm compacted depth of AC 10 or AC 14 Close Surf 70/100

75mm compacted depth of AC 20 HDM bin 40/60 rec to Cl.906

50mm compacted depth of 14mm (nominal size) cold laid Bitmac

to IS EN 13108 (delay set)

- only with the road authority's approval

B= 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21 C = 63mm: ECC Earth Continuity Conductor

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2

Joints Sealed

See Note 3

SCALE I:10

EXISTING ROAD BUILD-UP

SOUTH DUBLIN CO. COUNCIL

TO BE CONFIRMED BY

ALL REINSTATEMENT WORKS ARE TO BE IN

- I. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to
- 2. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
- Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement
- 4. Any damaged area adjacent to the opening and resulting from the excavation operation shall be
- 5. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
- 6. Joint sealer shall be a hot 50 pen bitumen binder or cold thixtropic bitumen 50 -70 pen to be applied
- 7. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete

ACCORDANCE WITH GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS (APRIL 2017) AND LOCAL AREA ENGINEERS REQUIREMENTS

- excavation. All edges shall be essentially straight, smooth and vertical.
- shall be extended accordingly (* increase to 800mm where this is pre-existing practice).

- to all vertical cuts in accordance with B.S.594987 prior to application of bituminous materials.
- to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
- Where required by the Road authority the trench may be reinstated with a Cement Bound Granular

All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to

LOCAL AREA ENGINEERS REQUIREMENTS

- 2. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
- Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous
- 4. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
- 6. Temporary Road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 Temporary Traffic Measures and Signs for Roadworks).
- Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement all

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS (APRIL 2017) AND

- excavation. All edges shall be essentially straight, smooth and vertical.

- 5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
- permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.

Beenreigh, Tralee, Co. Kerry Tel: 00353 66 7135710

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PROJECT

110kV Baldonnell Substation

CLIENT



CONSULTANTS

- The following design is subject to Planning approval and should not be
- specifications and reports. • Dimensions are in millimeters, unless noted otherwise. Drawings are not

• This drawing is to be read in conjunction with relevant drawings,

- to be scaled use figured dimensions only. Existing road build up and reinstatement requirements to be confirmed
- with South Dublin County Council Geogrid may be implemented along the cable trench route where deemed necessary by the contractor or as required by South Dublin
- County Council. LEGEND: -

ISSUE/REVISION

P4 23.05.23 Issued for Planning 19.05.23 Issued for Planning P2 15.03.23 Issued for Planning 24.02.23 Issued for Planning DESCRIPTION DATE

PROJECT NUMBER

05-868

SHEET TITLE

110kV Ducting Through Regional, Local & Private Roadways and Road Reinstatement with ECC

SHEET NUMBER

05868-DR-005

Section Through Temporary Reinstatement of Longitudinal Opening in **Roadway With ECC** SCALE 1:10

C = 63mm: ECC Earth Continuity Conductor

A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 B= 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21

