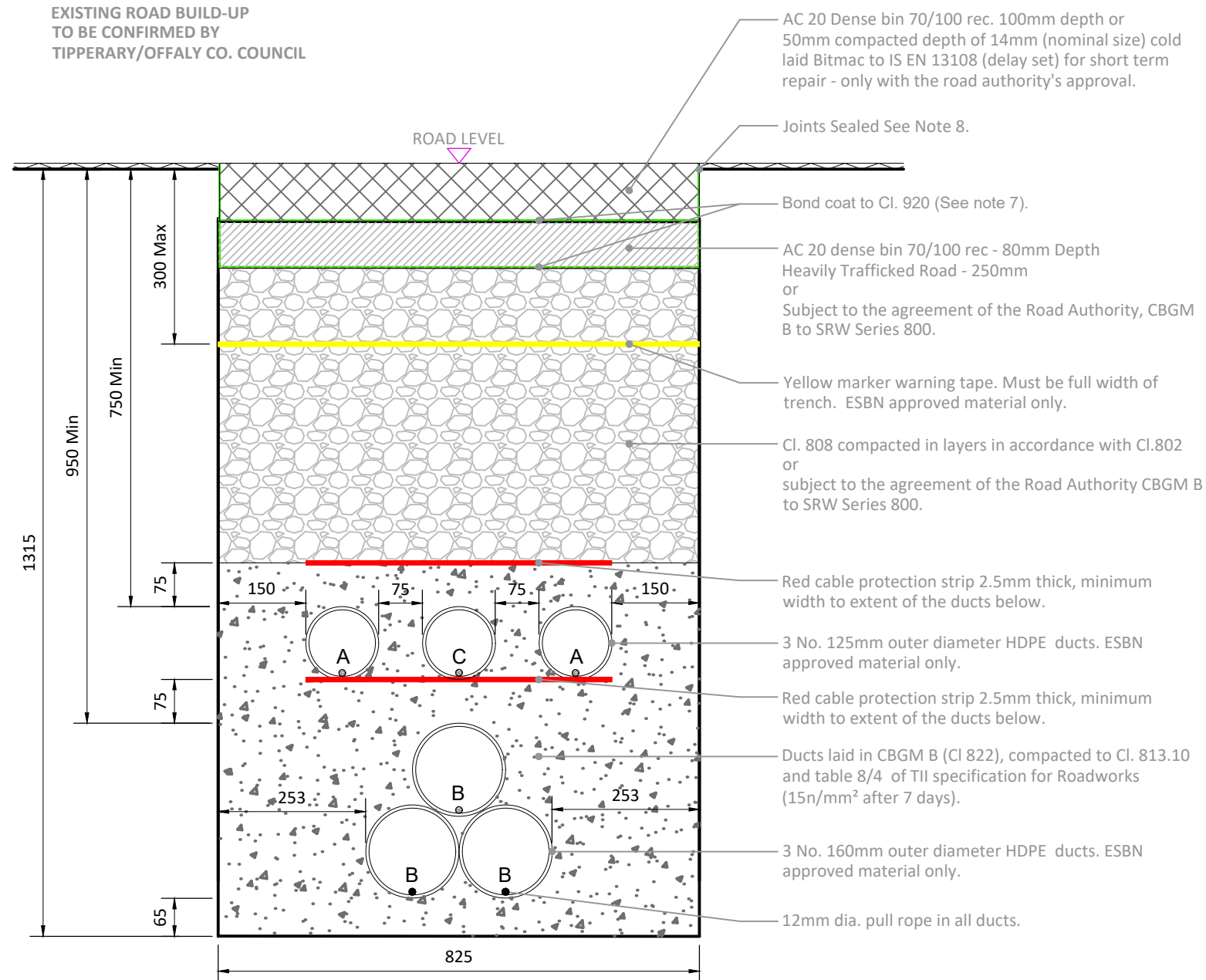


Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1



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

- Notes:**
- Please note that this is drawing for planning and is not to be used for construction.
 - This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 - Dimensions are in millimeters, unless noted otherwise.
 - Drawings are not to be scaled use figured dimensions only.
 - Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 - All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 - Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 40/60 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 materials.
 - Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Temporary road surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
 - Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.

Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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CLIENT
 PROJECT
 Ballincor WF
 110 kV Grid Connection

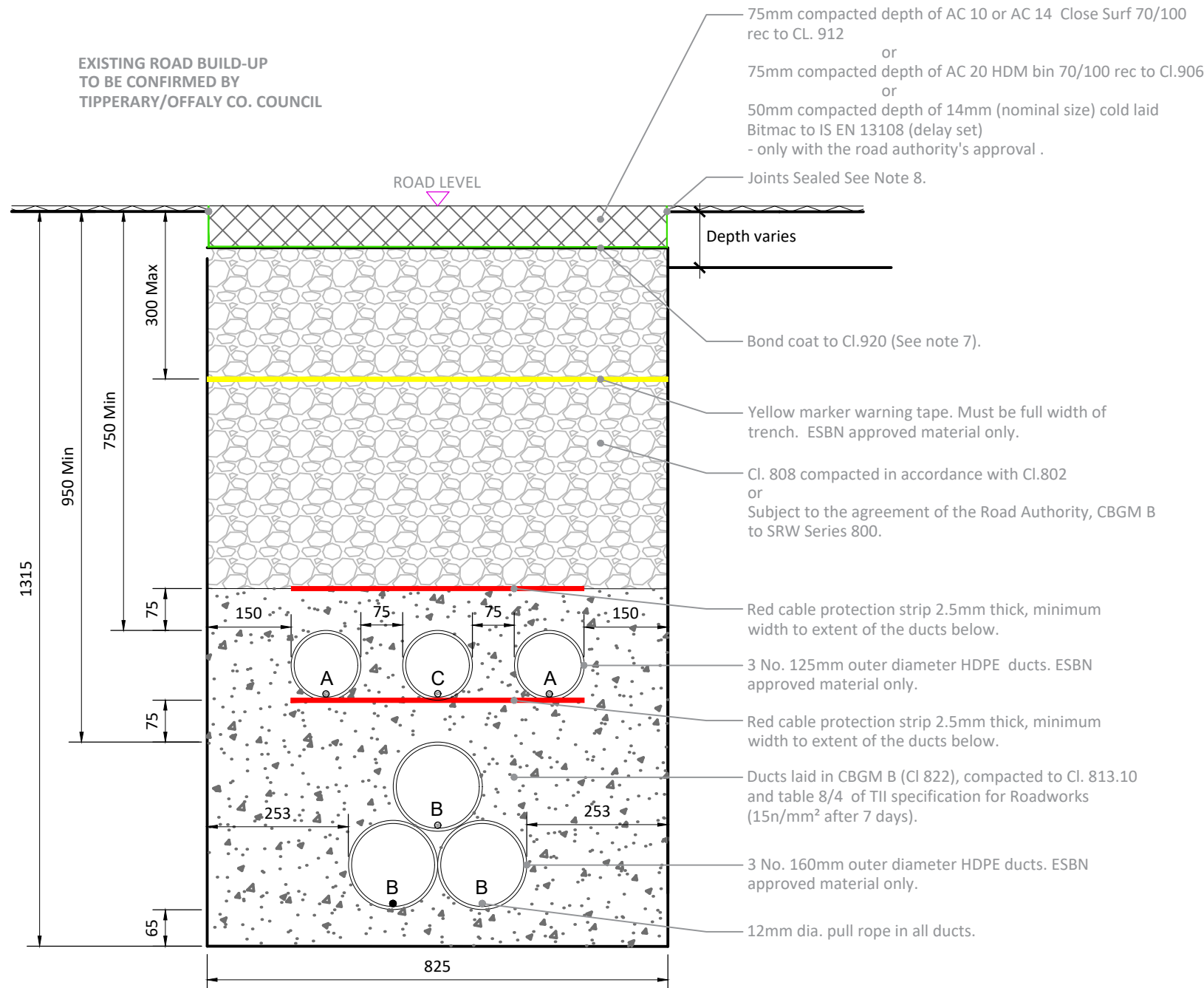
PROJECT NUMBER
 05-867
 SHEET NUMBER
 05867-DR-201

SHEET TITLE
 110 kV Cable Ducts in Local Road
 Temporary Reinstatement to SD1

DRAWING STATUS
 For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

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



EXISTING ROAD BUILD-UP TO BE CONFIRMED BY TIPPERARY/OFFALY CO. COUNCIL

- Notes:**
- Please note that this is drawing for planning and is not to be used for construction.
 - This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 - Dimensions are in millimeters, unless noted otherwise.
 - Drawings are not to be scaled use figured dimensions only.
 - Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 - All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 - Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 40/60 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 materials.
 - Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Temporary road surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
 - Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.

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

Typical Section Through Temporary Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway
SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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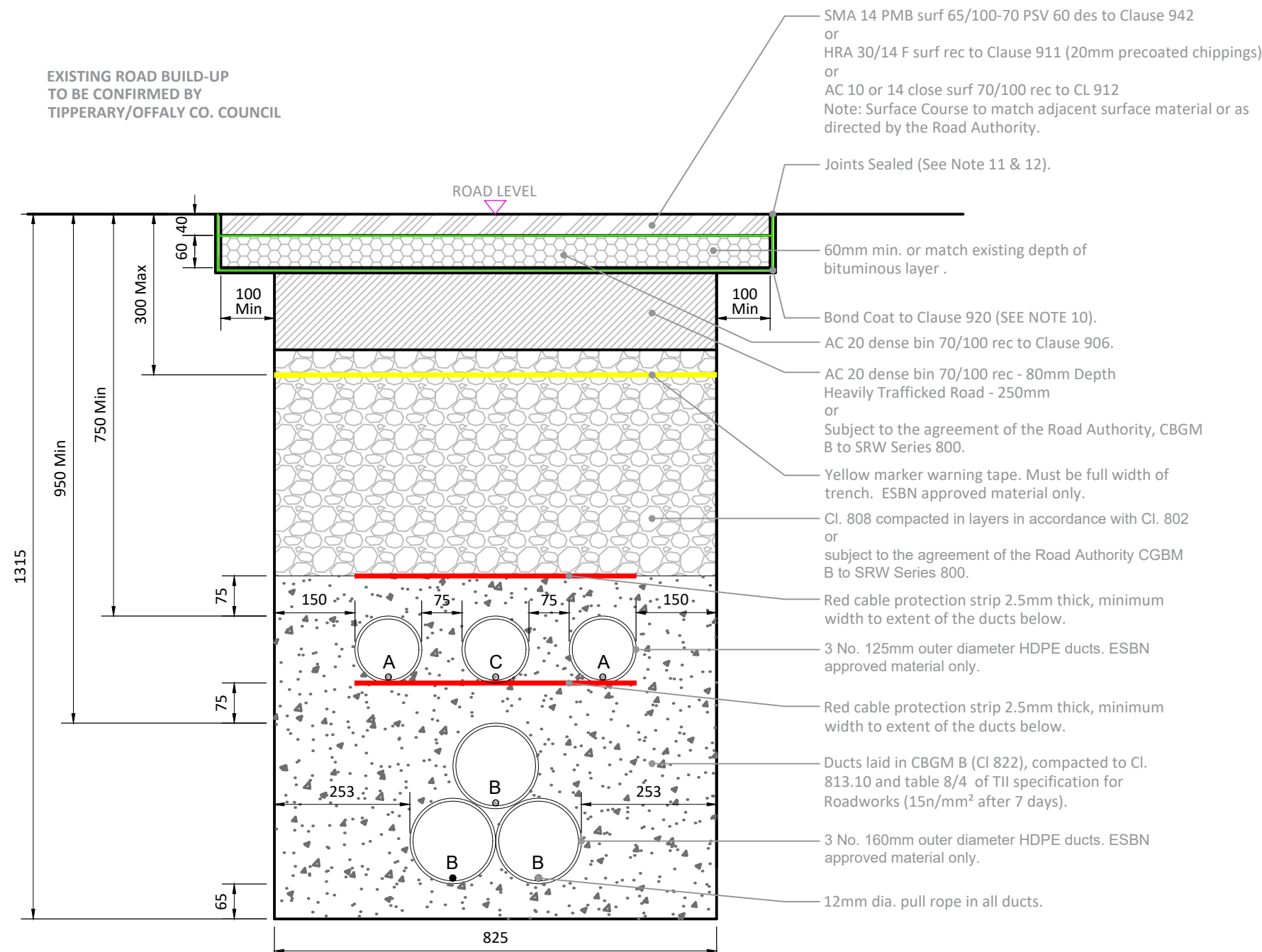


CLIENT
 PROJECT
 Ballincor WF
 110 kV Grid Connection
 PROJECT NUMBER
 05-867
 SHEET NUMBER
 05867-DR-202

SHEET TITLE
 110 kV Cable Ducts in Local Road
 Temporary Reinstatement to SD2
 DRAWING STATUS
 For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4



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

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

- Notes:
- Please note that this is drawing for planning and is not to be used for construction.
 - This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 - Dimensions are in millimeters, unless noted otherwise.
 - Drawings are not to be scaled use figured dimensions only.
 - Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 - All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 - 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 shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 40/60 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 materials.
 - Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth and 50mm width or other method approved by the road authority.
 - 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 to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
 - Surface course to match existing surfaces unless otherwise directed by road authority.
 - The coarse aggregate in the asphalt concrete surface course shall have a polished stone value of not less than 60.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-203

SHEET TITLE

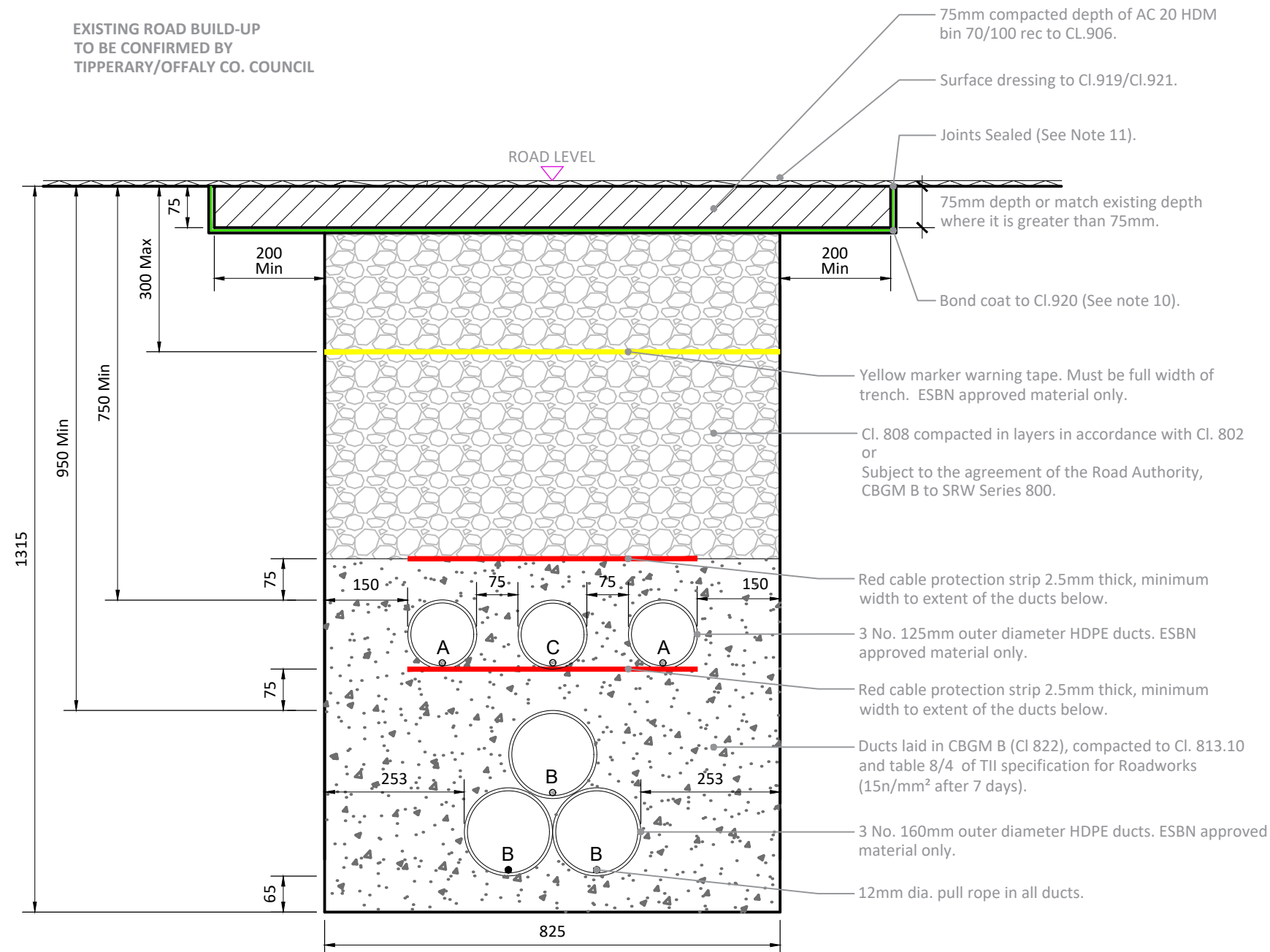
110 kV Cable Ducts in Local Road
 Permanent Reinstatement to SD4

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5



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

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Notes:

1. Please note that this is drawing for planning and is not to be used for construction.
2. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
3. Dimensions are in millimeters, unless noted otherwise.
4. Drawings are not to be scaled use figured dimensions only.
5. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
6. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
7. 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.
8. 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 shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
9. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
10. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
11. Joint sealer shall be a hot 40/60 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 materials.
12. Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth.
13. 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 to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
14. On highly trafficked roads services must have a minimum cover of 750mm.
15. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-204

SHEET TITLE

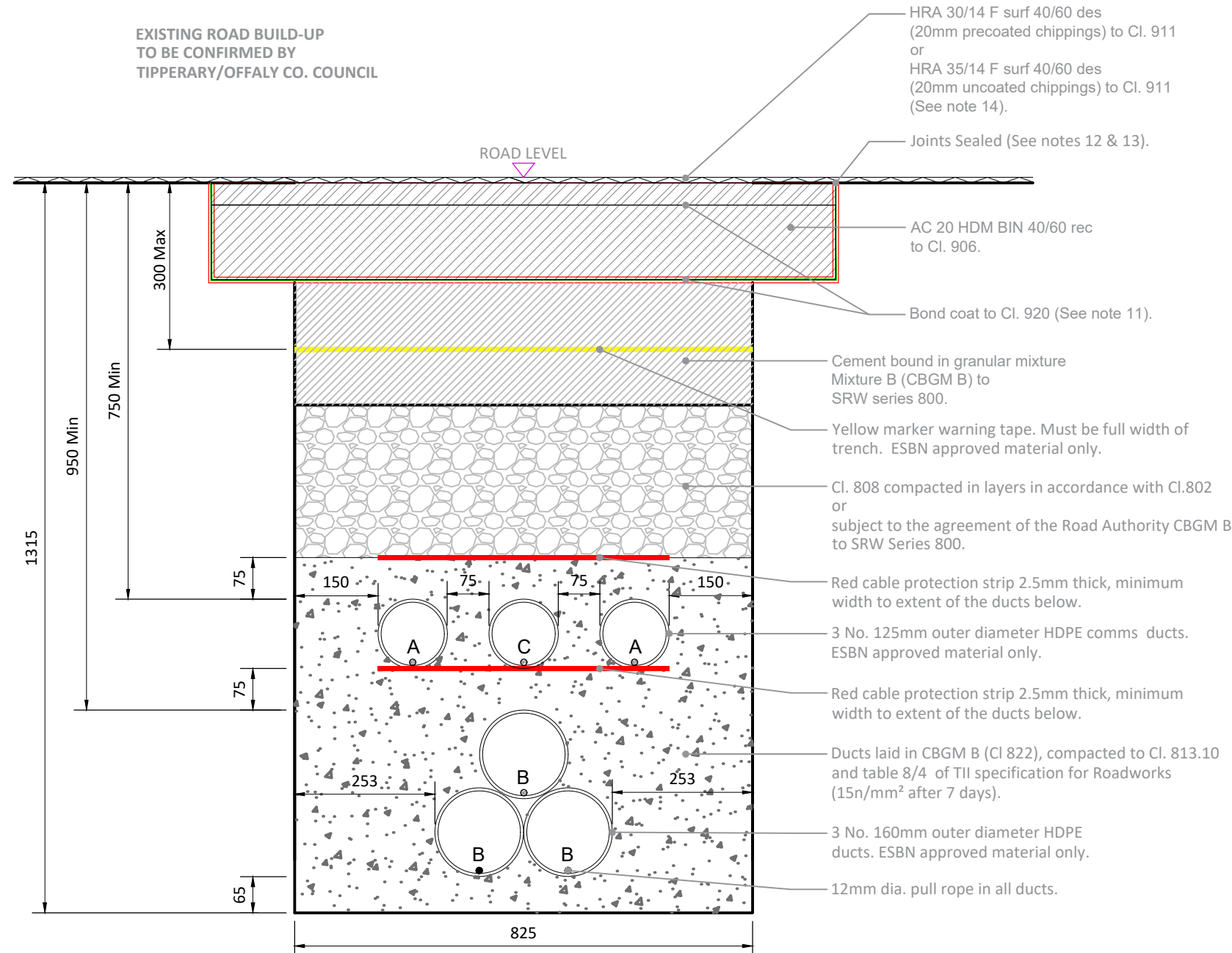
110 kV Cable Ducts in Local Road
 Permanent Reinstatement to SD5

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD6



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

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Heavily Trafficked/Regional Roadway

SCALE 1:10

Notes:

- Please note that this is drawing for planning and is not to be used for construction.
- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.
- Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on duct type / colour and marker Tape type / colour.
- All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
- As a minimum the reinstatement layer shall match existing bound AC layers or depths shown.
- 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.
- The above surface and binder courses and CBGM road base can be replaced by 40mm rolled Asphalt Surface Course to Clause 911 on 60mm deep asphalt concrete base course to Clause 906 on 200mm of asphalt concrete road base (40mm nominal size) to Clause 903.
- 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 shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
- Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
- Joint sealer shall be a hot 40/60 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 materials.
- Joints sealed with hot bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum used in accordance with Road Note 16 and shall not exceed 3mm depth and 50mm width or other method approved by the road authority.
- Surface course to match existing surfaces unless otherwise directed by road authority.
- The coarse aggregate in the asphalt concrete surface course shall have a polished stone value of not less than 60.
- Cycle lane to be reinstated to match existing surfaces (where applicable). (See Guidelines for Managing Openings in Public Roads Cha. 5).
- Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
- The contractor shall provide test certificates confirming that the thermal resistivity of CBGM is maximum 1K.m/W.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-205

SHEET TITLE








110 kV Cable Ducts in Local Road
 Permanent Reinstatement to SD6

DRAWING STATUS
 For Planning

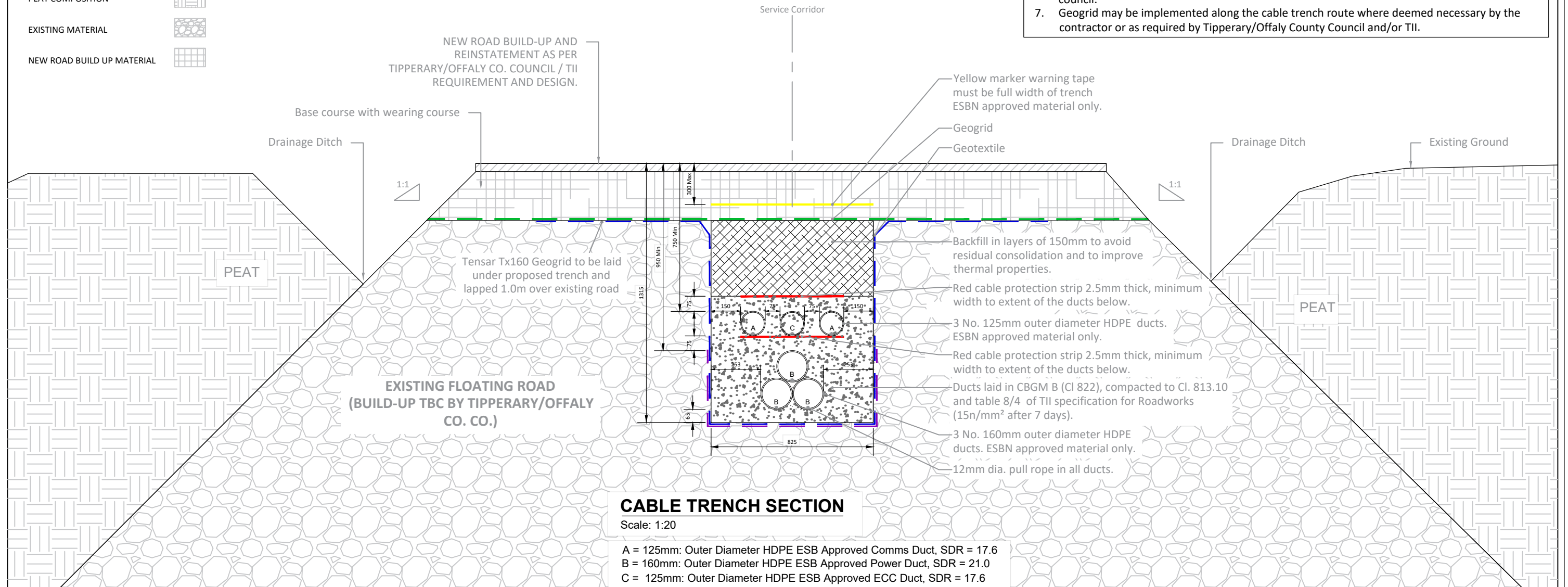
ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

LEGEND:

SECUGRID 40/40 GEOGRID	
TENSAR Tx160 GEOGRID	
GEOTEXTILE	
BASE WEARING COURSE	
PEAT COMPOSITION	
EXISTING MATERIAL	
NEW ROAD BUILD UP MATERIAL	

- NOTES:**
1. This drawing is to be used for EirGrid design approval only and is not to be used for construction.
 2. For further information reference the latest versions of EirGrid Dr. No. XDC-CBL-STND-H-007 & Functional Specifications in addition to all other relevant documentation.
 3. Dimensions are in millimeters, unless noted otherwise.
 4. Drawings are not to be scaled, use figured dimensions only.
 5. Road-markings to be agreed with the county council and reinstated.
 6. Road surfacing build-up and tie in with non floating road sections to be agreed with the county council.
 7. Geogrid may be implemented along the cable trench route where deemed necessary by the contractor or as required by Tipperary/Offaly County Council and/or TII.



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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-206

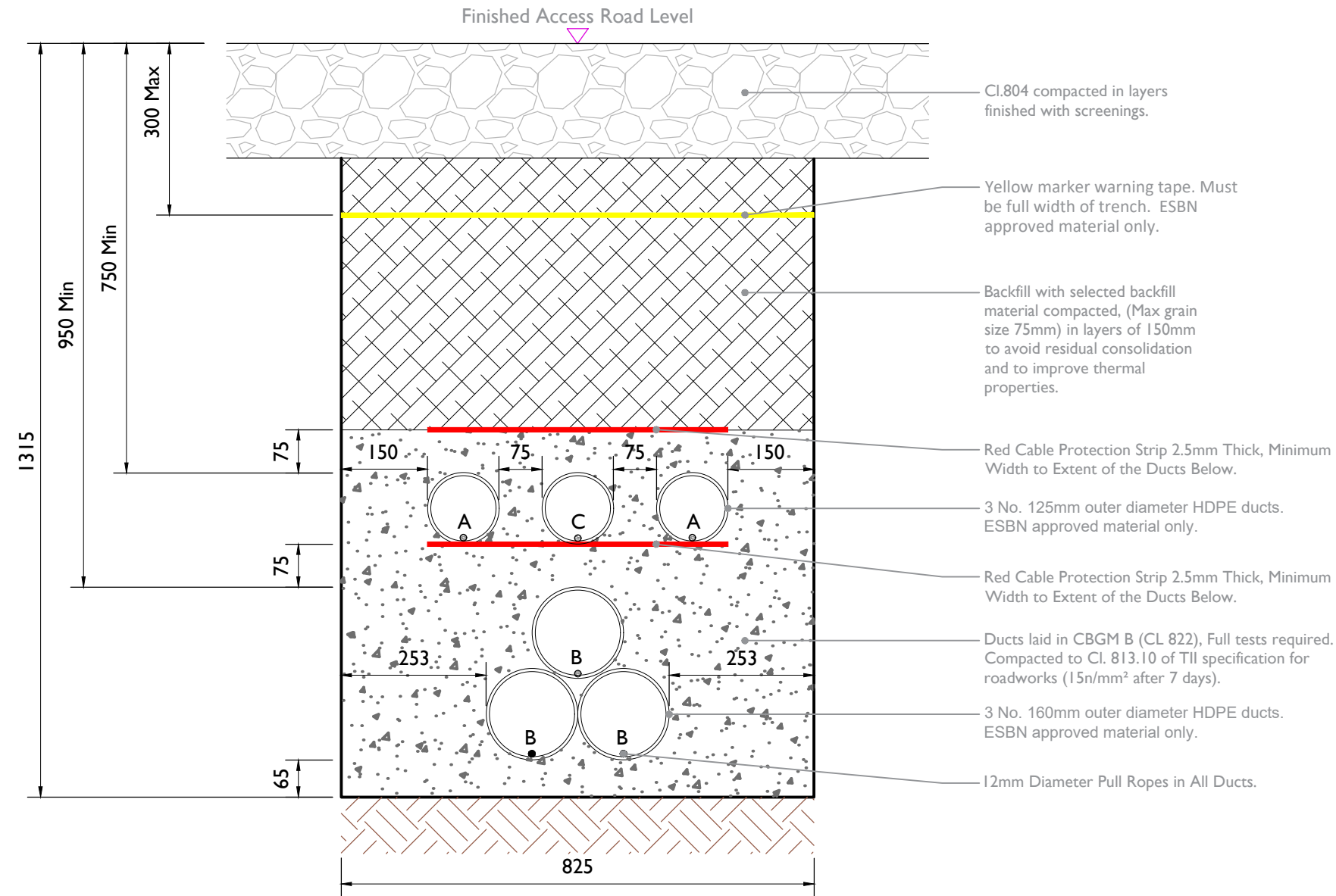
SHEET TITLE

110 kV Cable Ducts in Floating
 Access Road

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning



A = 125mm: Outer Diameter HDPE ESB Approved Comms Duct, SDR = 17.6
 B = 160mm: Outer Diameter HDPE ESB Approved Power Duct, SDR = 21.0
 C = 125mm: Outer Diameter HDPE ESB Approved ECC Duct, SDR = 17.6

Section Through Access Road

SCALE 1:10

- Notes:**
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 4. Drawings are not to be scaled use figured dimensions only.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-207

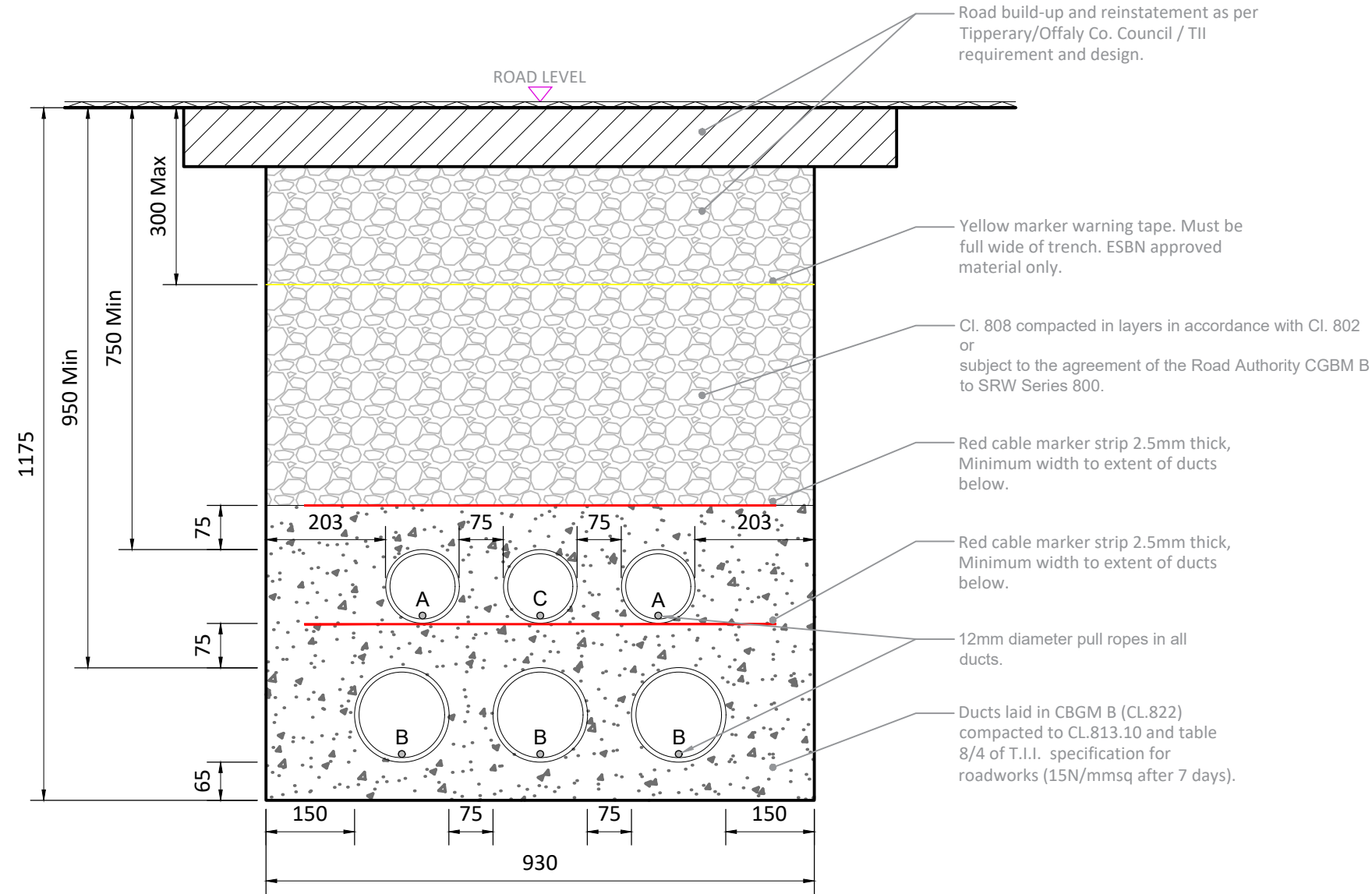
SHEET TITLE

Ducting through Access Road

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning



- Notes:**
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 3. Dimensions are in millimeters, unless noted otherwise.
 4. Drawings are not to be scaled use figured dimensions only.

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

Trench Section With Ducts In Compact Flat Formation

SCALE 1:10

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PROJECT

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PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-208

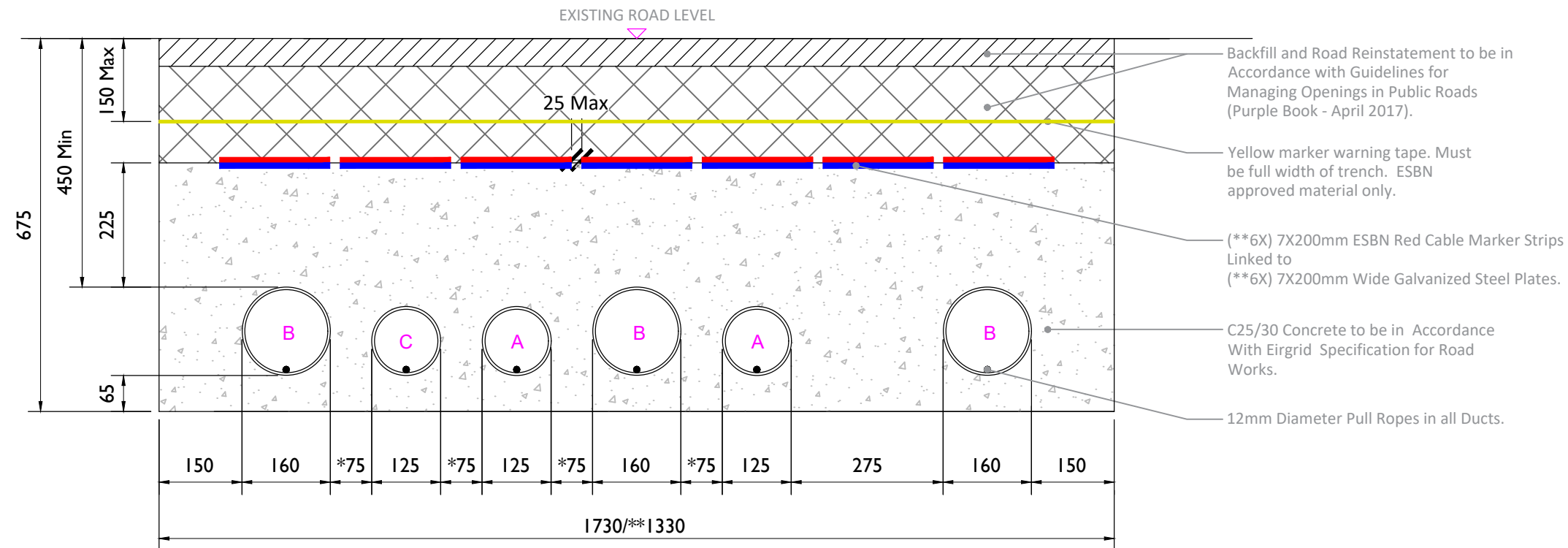
SHEET TITLE

Trench Section With Ducts In
 Compact Flat Formation

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	26.11.2024	Issued for Planning



- Backfill and Road Reinstatement to be in Accordance with Guidelines for Managing Openings in Public Roads (Purple Book - April 2017).
- Yellow marker warning tape. Must be full width of trench. ESBN approved material only.
- (*6X) 7X200mm ESBN Red Cable Marker Strips Linked to (*6X) 7X200mm Wide Galvanized Steel Plates.
- C25/30 Concrete to be in Accordance With Eirgrid Specification for Road Works.
- 12mm Diameter Pull Ropes in all Ducts.

A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR = 17.6 (Comms)
 B = 160mm: Outer Diameter HDPE ESB Approved Duct, SDR = 21 (Power)
 C = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR = 17.6 (ECC)
 *See Note 5.
 **Minimum Width of Trench 1330mm Where ECC Not Required.

- Notes:**
1. Please note that this is drawing for planning and is not to be used for construction.
 2. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 3. Dimensions are in millimeters, unless noted otherwise.
 4. Drawings are not to be scaled use figured dimensions only.
 5. The minimum clearance between all HV and communication ducts is 75mm, but increased spacing may be required in order to achieve the cable rating (to be confirmed by designer cable rating calculations).

Section Through Ducting in Shallow Flat Formation

SCALE 1:10

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PROJECT

Ballincor WF
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-209

SHEET TITLE

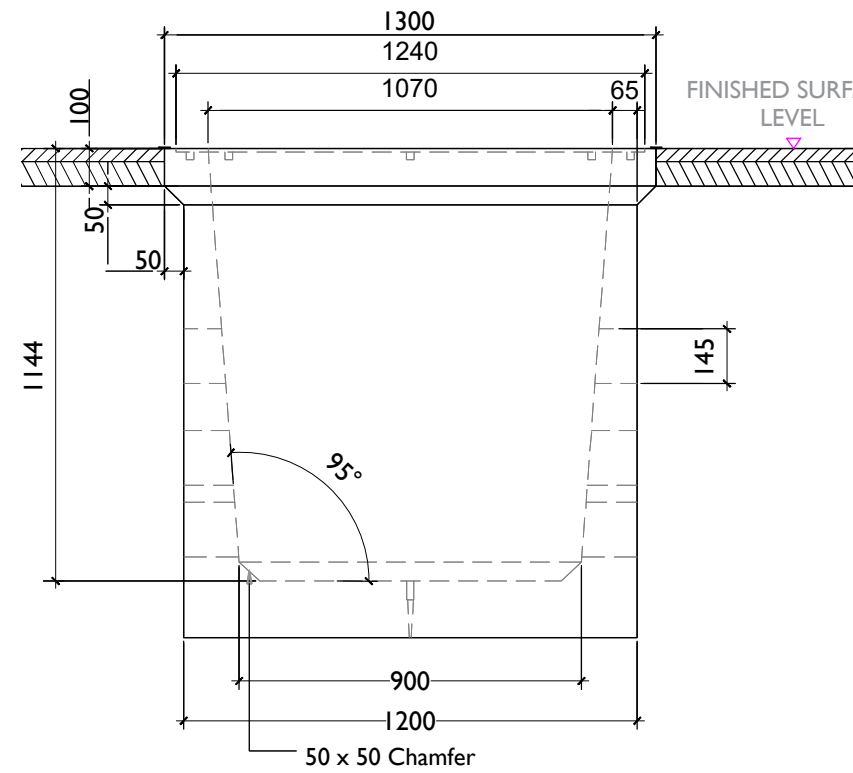
Section Through Ducting
 in Shallow Flat Formation

DRAWING STATUS
 For Planning

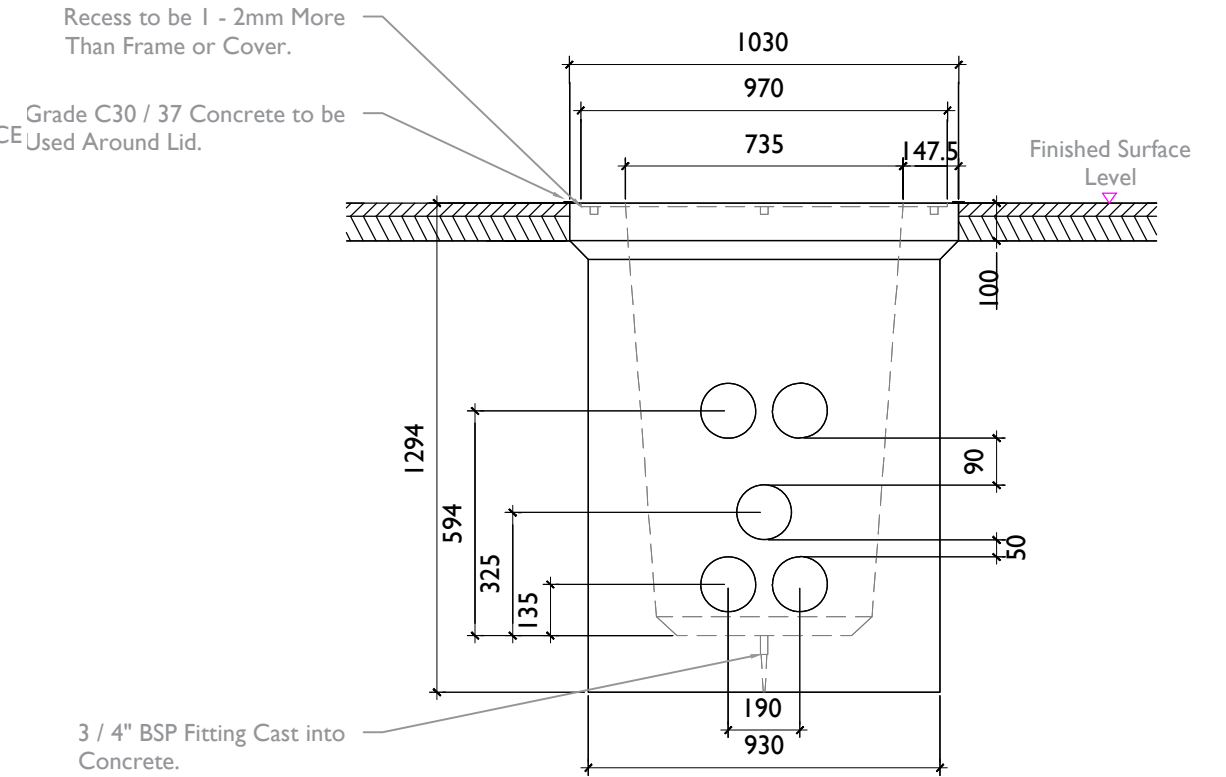
ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

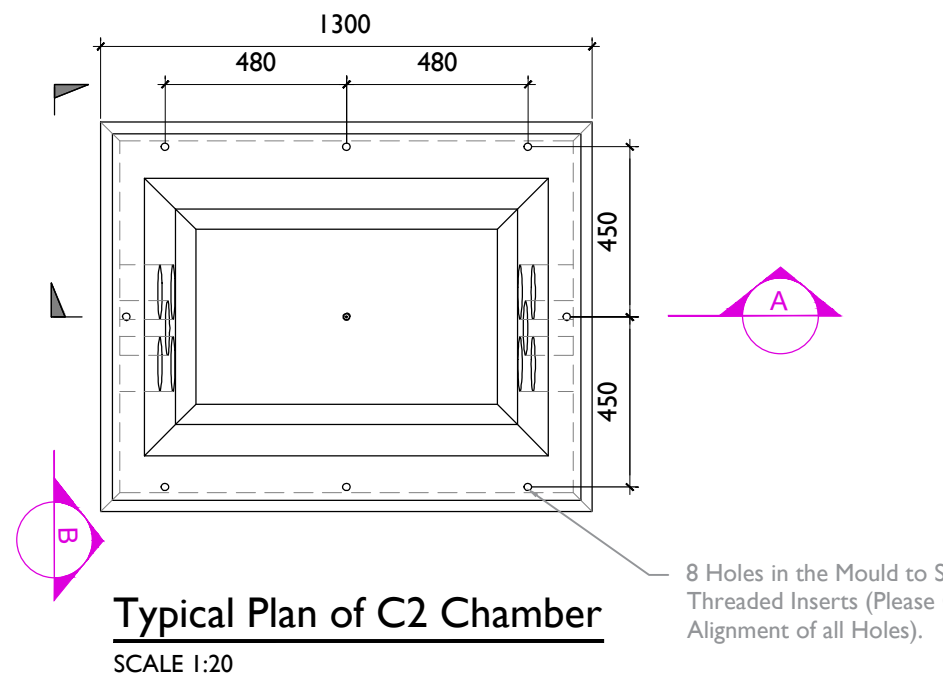
- GENERAL NOTES:**
1. Please note that this is drawing for planning and is not to be used for construction.
 2. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 3. All Dimension in Millimeters Unless Otherwise Stated.
 4. Reinstatement to Comply with Requirements of The Relevant Local Authority / Asset Owner.
 5. Entrance and Exit Ducts to be in line.
 6. All Material and Workmanship to be in Accordance with NRA / T.I.I. Specification for Roadworks, May 2005 & Subsequent Revisions
 7. Reinforced Concrete to be Minimum Grade C32 / 40, Sulphate Resisting Cement to be Used Where Aggressive Soil Conditions Apply, Refer to Table 6.1 of The British Standard 8110.
 8. Carriageway Covers and Frames to be to B.S EN 124.
 9. All Covers Shall Have "ESB" Logo Incorporated in Them to the Approval of Eirgrid.
 10. Step Irons to be Got Dipped Galvanized to B.S 729 and Positioned as Shown on any Chamber Deeper Than 700mm on the end Remote From any Side Entry Duct.
 11. Concrete Precast Chamber and Cover to be tested Through 5 Points, 40 Tonnes Vertical Static Loading Test by an Independent Test Company. If Required, Further Details Will be Provided by ESB/Eirgrid.
 12. Final Position of C2 Chambers Shall be Agreed with ESB/Eirgrid.
 13. In a Forest Environment, Backfill with Lean Mix Outside The Cover Frame Where The Asphalt is shown.



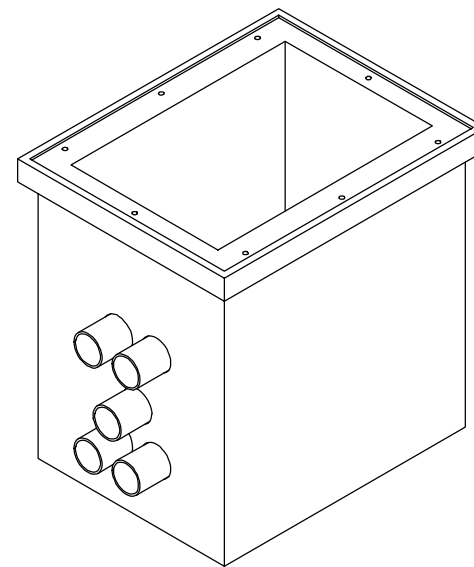
C2 Chamber Detail - Section A
SCALE 1:20



C2 Chamber Detail - Section B
SCALE 1:20



Typical Plan of C2 Chamber
SCALE 1:20



Isometric : C2 Chamber Arrangement
SCALE 1:20



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RWE
TOBIN
Consulting Engineers

PROJECT

Ballincor Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-867

SHEET NUMBER
05867-DR-213

SHEET TITLE

Typical Communications
Chamber Details

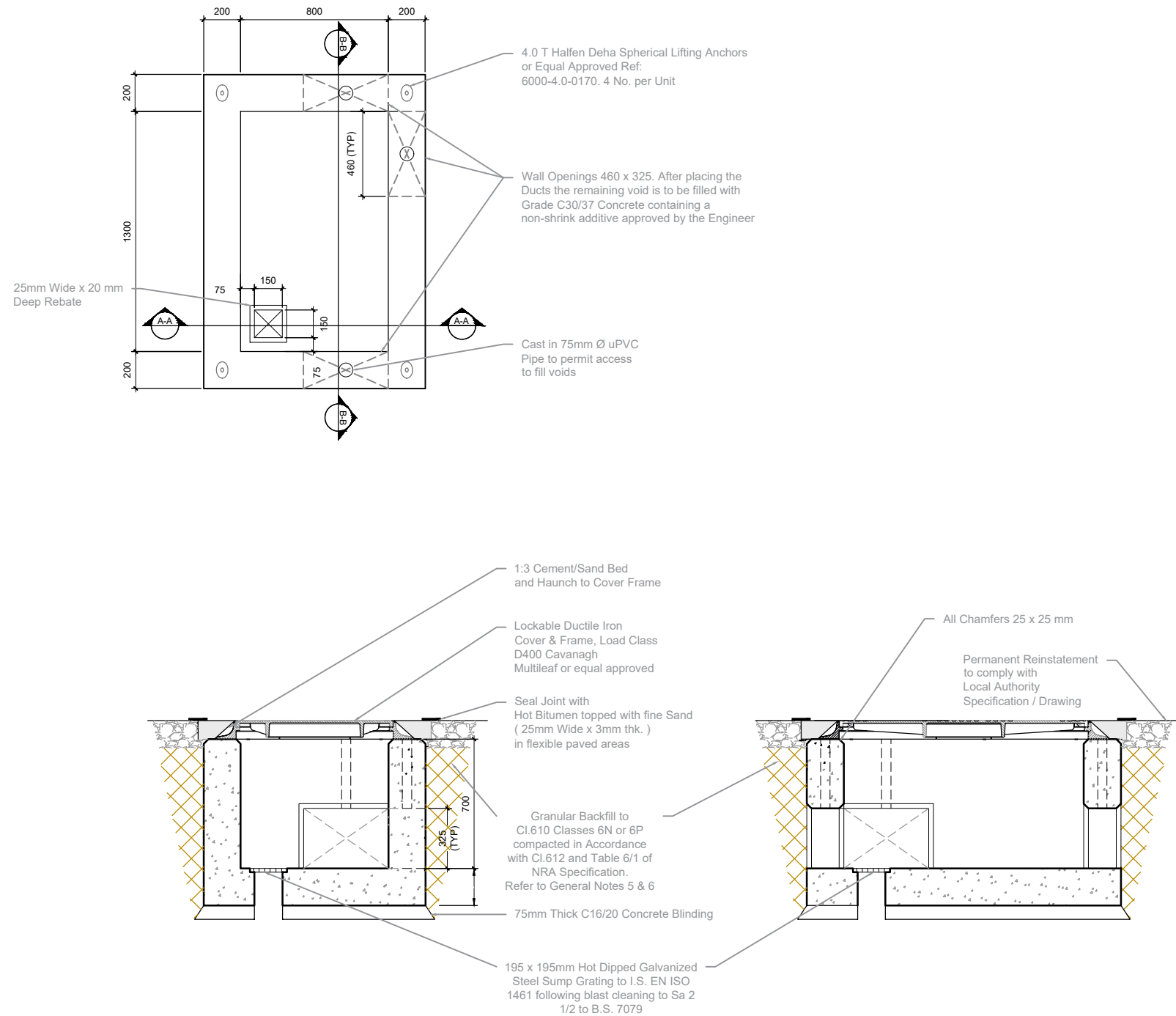
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning

GENERAL NOTES:

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2. This drawing is to be read in conjunction with relevant drawing's, specifications and reports.
3. Dimensions are in millimeters, unless noted otherwise.
4. Drawings are not to be scaled use figured dimensions only.
5. The contractor shall check all dimensions prior to construction, any discrepancies to be reported to the civil site supervisor immediately.
6. Temporary supports to the sides of the excavation may be required dependant on subsoil, method of work and site constraints, and are to be agreed with the EirGrid Engineer prior to commencement of excavation. Side slopes of an unsupported excavation dependant upon subsoil and shall be agreed with EirGrid Engineer.
7. Main contractor to provide a method statement and risk assessment for the excavation works for the EirGrid Engineer to review.
8. The construction, as shown, is applicable only where the subsoil at formation level exceeds 100kN/m² Bearing capacity.
9. Suitability of the cover and chamber to be assessed by the project Engineer in circumstances of high traffic loading in accordance with the recommendations of NRA Design manual for roads and bridges addendum to HA 104/09.
10. Cover and frame to B.S. EN 124.
11. Cover shall have approved badged marking incorporated to the approval of the EirGrid Engineer.
12. All materials and workmanship to be in accordance with the NRA Specification for roadworks.
13. Reinstatement to comply with requirements of the relevant local authority/asset owner.
14. Reinforced concrete to be a minimum grade C32/40, sulphate resisting cement to be used where aggressive soil conditions apply, refer to table 6.1 OF B.S. 8110.
15. Final position of link box to be agreed with ESB/Eirgrid prior to installation.



Link Box Chamber Details

SCALE 1:30



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CLIENT



PROJECT

Ballincor Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-867

SHEET NUMBER
 05867-DR-214

SHEET TITLE

Typical Link Box
 Chamber Details

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	07.07.2025	Issued for Planning
P1	16.08.2024	Issued for Planning