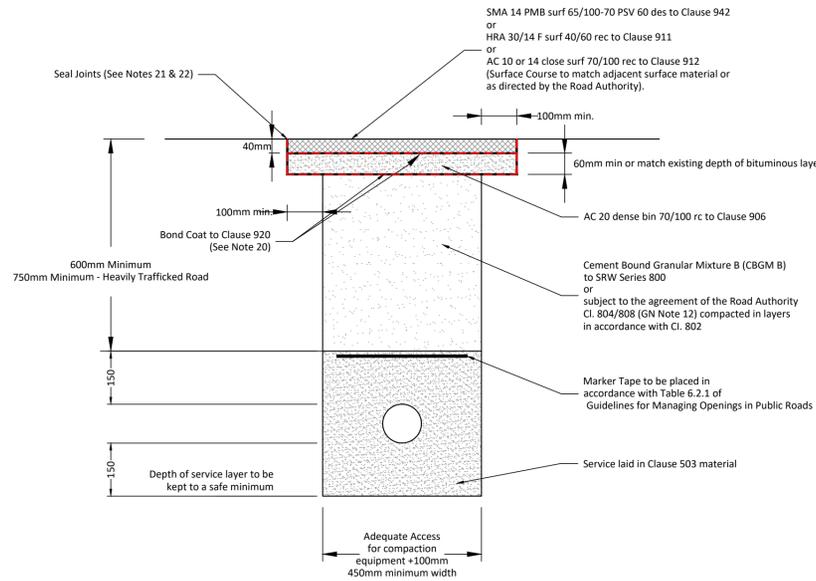


GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

GENERAL REINSTATEMENT NOTES:

- COMPLIANCE WITH THESE DRAWINGS AND DETAILS ARE MANDATORY. DEPENDENT ON CIRCUMSTANCES AND WHERE DRAWINGS PROVIDE OPTIONS/ALTERNATIVES, ROAD AUTHORITIES MAY SPECIFY ONE OPTION ONLY AS BEING APPLICABLE. WHERE A UTILITY HAS AN APPROVED EQUIVALENT DETAIL FOR BEDDING AND SURROUND THIS MAY BE SUBSTITUTED FOR BEDDING AND SURROUND DETAIL SHOWN IN THE STANDARD DRAWINGS, PROVIDED IT IS AGREED WITH THE ROAD AUTHORITY IN ADVANCE.
- FULL WIDTH/LANE/BAY REINSTATEMENTS WORKS SHALL BE MACHINE LAID WITH MATERIALS USED IN ACCORDANCE WITH TII SPECIFICATION FOR ROAD WORKS AND USE MATERIALS AND DEPTHS OF RECONSTRUCTION TO MATCH THE EXISTING SURFACE. NOTE: SURFACE DRESSING DOES NOT CONSTITUTE FULL WIDTH REINSTATEMENT UNLESS THE STRUCTURAL ASPHALTIC CONCRETE (AC) LAYER IS PROVIDED OVER THE FULL WIDTH.
- ON APPROACH TO THE WORKS SITE, THE NAME OF THE CONTRACTOR AND LICENCE HOLDER MUST BE CLEARLY DISPLAYED WITH A 24 HOUR CONTACT NUMBER.
- ALL WORKS SHALL HAVE A TEMPORARY TRAFFIC MANAGEMENT PLAN, WHICH SHALL BE AVAILABLE FOR INSPECTION ON SITE, AND SHALL COMPLY WITH THE TRAFFIC SIGNS MANUAL AND HEALTH AND SAFETY REQUIREMENTS.
- PRIOR TO ANY EXCAVATION WORKS TAKING PLACE, THE LOCATION OF ALL UNDERGROUND AND OVER GROUND SERVICES MUST BE IDENTIFIED AND MARKED BY A COMPETENT PERSON TRAINED IN THE USE OF CAPABLE DETECTORS. CONTACT SHALL BE MADE WITH ALL RELEVANT SERVICE PROVIDERS IN THIS REGARD.
- ALL WORKS AND MATERIALS SHALL COMPLY WITH THE TII SPECIFICATION FOR ROAD WORKS. SERIES 900 OF THAT SPECIFICATION WILL BE THE MARCH 2011 VERSION. ALL OTHER SERIES WILL BE TO THE CURRENT VERSION.
- EXCAVATION ON A ROAD SHOULD NOT BE CLOSER THAN 500MM TO THE KERB LINE IN ORDER TO PREVENT UNDERMINING OF THE ADJACENT FOOTWAY. THE TRENCH SHOULD BE LOCATED SO AS TO AVOID SURFACE JOINTS BEING LOCATED IN THE WHEEL TRACK AS FAR AS REASONABLY PRACTICABLE.
- ALL BOUND (OR CONCRETE) 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.
- EXCAVATIONS SHALL BE SUFFICIENTLY PROTECTED TO AVOID HARMFUL EFFECTS CAUSED BY WEATHER OR ADJACENT WHEEL LOADING.
- REFER TO CHAPTER 6 FOR REQUIREMENTS ON PIPE/DUCT TYPE/COLOUR AND MARKER TAPE.
- THE METHOD OF WORK SHALL ENSURE PROPER COMPACTION AND SUCH COMPACTION MAY BE TESTED BY THE ROAD AUTHORITY. TO ENSURE ADEQUATE COMPACTION, MINIMUM CLEARANCE MUST BE MAINTAINED VERTICALLY AND HORIZONTALLY BETWEEN INDIVIDUAL DUCTS OR SERVICES INSTALLED IN A GROUP.
- CL. 808 TO BE USED WITHIN 500MM OF CEMENT BOUND MATERIALS, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR CONCRETE PRODUCTS. OTHERWISE CL. 804 MAY BE USED. FOAMED CONCRETE TO CL. 1043 MAY ONLY BE USED AS A BEDDING MATERIAL OR BACKFILL MATERIAL WITH PRIOR APPROVAL OF THE ROAD AUTHORITY. CEMENT BOUND GRANULAR MIXTURE B SHALL HAVE A MINIMUM STRENGTH CLASS OF C8/10, UNLESS OTHERWISE DIRECTED.
- WHERE STEEL PLATES OR OTHER TRENCH COVERS ARE USED, THEY MUST COMPLY WITH SECTION 6.3.7.
- HAND LAYING OF HOT BITUMINOUS MIXTURES SHALL BE RESTRICTED TO THE FOLLOWING CIRCUMSTANCES:
 - AT THE EDGES OF THE LAYERS OF MATERIAL AND AT GULLIES, MANHOLES AND OTHER IRONWORK
 - IN CONFINED SPACES WHERE IT IS IMPRACTICABLE FOR A PAVER TO OPERATE.
 - AT APPROACHES TO EXPANSION JOINTS AT BRIDGES, VIADUCTS OR OTHER STRUCTURES.
 - TRANSVERSE REINSTATEMENTS LESS THAN 4 METRES IN WIDTH.
 - LONGITUDINAL REINSTATEMENTS LESS THAN 20 METRES IN LENGTH.
 - SURFACE COURSE REINSTATEMENTS OF LONGITUDINAL EXCAVATION LESS THAN 1 METRE IN WIDTH.
 - TEMPORARY REINSTATEMENT. THE METHOD OF LAYING SHALL BE SUCH THAT THE FINISHED SURFACE IS FREE FROM DRAGGING, TEARING AND SEGREGATION OF THE MATERIAL.
- ALL SURFACE COURSE AGGREGATE SHALL HAVE A MINIMUM PSV OF 60 DECLARED UNLESS OTHERWISE SPECIFIED BY THE ROAD AUTHORITY. TEMPORARY SURFACES TO BE MANAGED IN ACCORDANCE WITH RLS8/2007.
- ANY DAMAGE TO THE ROAD STRUCTURE OR AREAS ADJACENT TO THE OPENING AND RESULTING FROM THE WORKS SHALL BE REPAIRED AND INCLUDED WITHIN THE AREA TO BE REINSTATED.
- WHERE THERE ARE EXCEPTIONAL CIRCUMSTANCE NOT COVERED BY THE DRAWING, THE REINSTATEMENT SPECIFICATION MUST BE AGREED WITH THE ROAD AUTHORITY.

ROADWAYS: TRANVERSE OPENINGS PERMANENT REINSTATEMENT



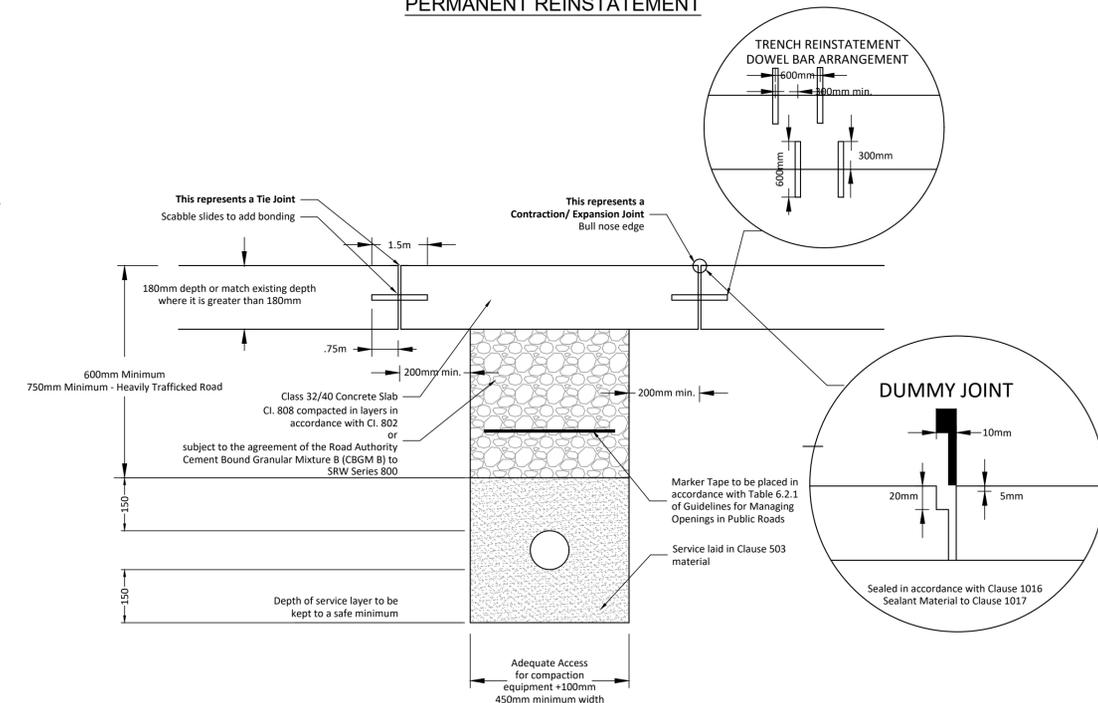
Standard Drawing SD7
SCALE 1:10

NOTES:

Notes 1-17 listed in General Reinstatement Notes apply.

- 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 machine laid and mechanically compacted with a vibrating roller.
- Where the trimmed edge of an 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)
- Cement Bound Granular Material surface to be sprayed per Clause 920 prior to application of Asphalt Concrete Layer.
- Joint sealer shall to 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 27 and shall not exceed 3mm depth and 50mm width or other method approved by the road authority.
- The coarse aggregate in the asphalt concrete surface course shall have a polished stone value of not less than 60.
- A minimum depth of cover of 600mm shall be allowed on lightly trafficked roads as directed by the road authority.
- Surface course to match existing surfaces unless otherwise directed by road authority.
- Where a standard depth cannot be met, see detail for protection slab.

ROADWAYS: CONCRETE PERMANENT REINSTATEMENT



Standard Drawing SD8
SCALE 1:10

NOTES:

Notes 1-17 listed in General Reinstatement Notes apply.

- Reinforced mesh (A393 or similar) shall be used at the discretion of the road authority.
- Surface finish to be similar to adjoining areas.
- On heavily trafficked roads services must have a minimum cover of 750mm and the trench must be reinstated with a Cement Bound Granular Material.
- Where the trimmed edge of an excavation is within 1 metre 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.
- Joints to be constructed in accordance with Clause 1009 & 1010 with joint filler board, prepared and sealed in accordance with Clause 1016 with sealant in accordance with Clause 1017.
- All joints that are removed or otherwise damaged must be replaced or reconstructed to a similar design and using equivalent materials.
- All joints between new and existing surfaces should be dummy joints, topped up with a bitumen sealant.
- Dowel Bars must comply with Clause 1011, including for 600mm expansion joint dowel bars to be 25mm diameter @300mm spacing for slabs up to 239mm thick & 32mm diameter for thicker slabs. For contraction joints in slabs up to 239mm thick, 400mm dowel bars to be 20mm diameter @300mm spacing. For Thicker slab, 600mm dowel bars to be 25mm diameter @300mm spacing.
- Tie bars to Clause 1012 to same grade as existing reinforcement 1.5m long fixed at twice the normal spacing midway between existing reinforcement bars so that 750mm +/- 50mm extends each side of the joint & tied to new reinforcement.
- Where a standard depth cannot be met, see detail for protection slab.

INFORMATION ONLY
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- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
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- DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
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Rev No.	Date	Revision Note	Drn by	Chkd by
P01	15.05.19	SUITABLE FOR INFORMATION	IK	SD
P02	14.01.22	SUITABLE FOR INFORMATION	EH	SMcG

Rev No.	Date	Revision Note	Drn by	Chkd by



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Client: THE PAUL HOGARTH COMPANY
Project: KILCULLEN PUBLIC REALM

Title: TYPICAL DETAILS
SHEET 1 OF 4

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
P294	OCSC	XX	XX	DR	C	2600	S2	P02

Date: 15.05.19 Scale: NTS @ A1 Drn by: IK Chkd by: JS Aprvd by: AH