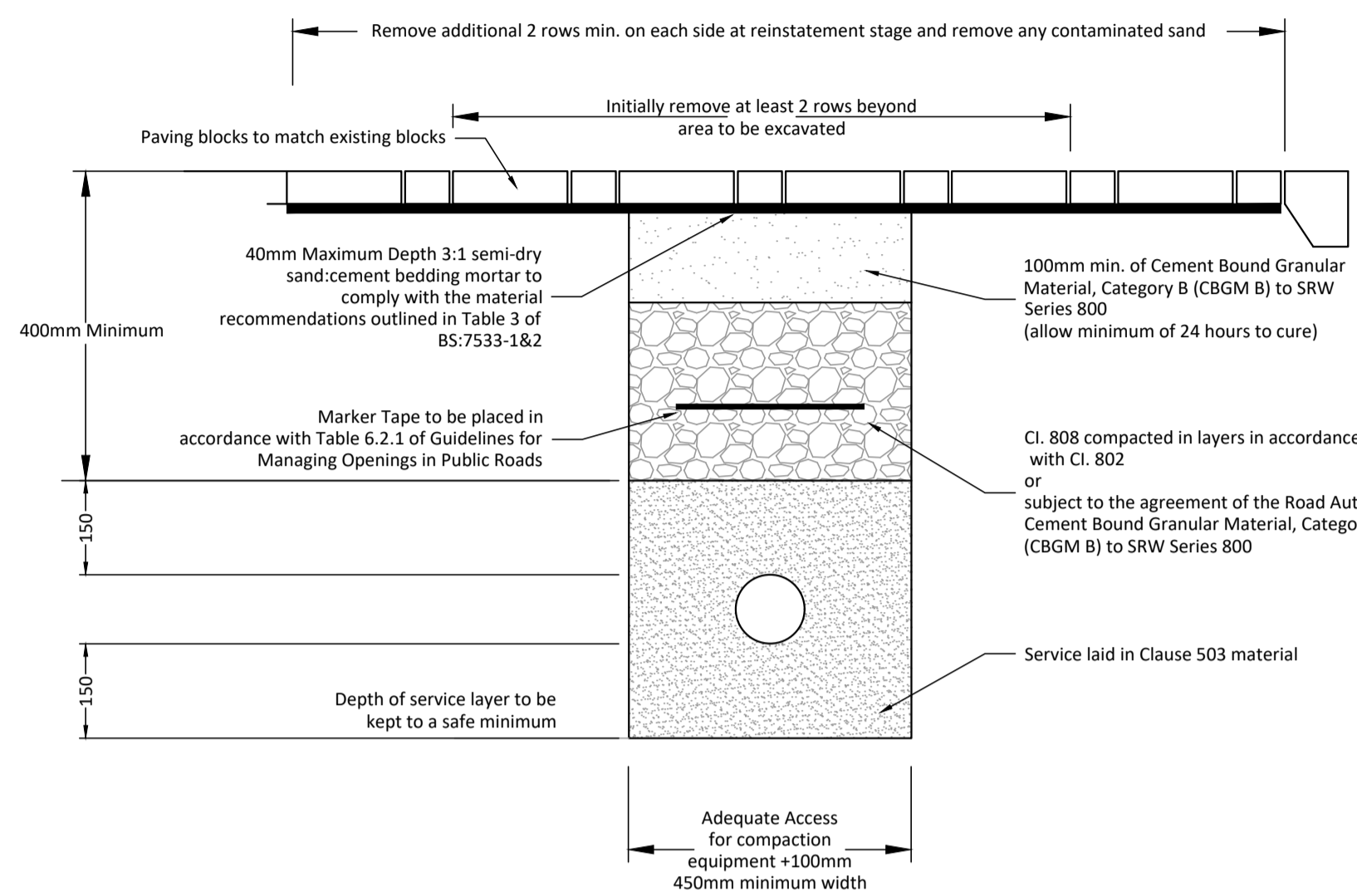


GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

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 PAVEMENTER 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.

FOOTWAYS: PRECAST CONCRETE PAVING BLOCK / CONCRETE SLAB PERMANENT REINSTATEMENT

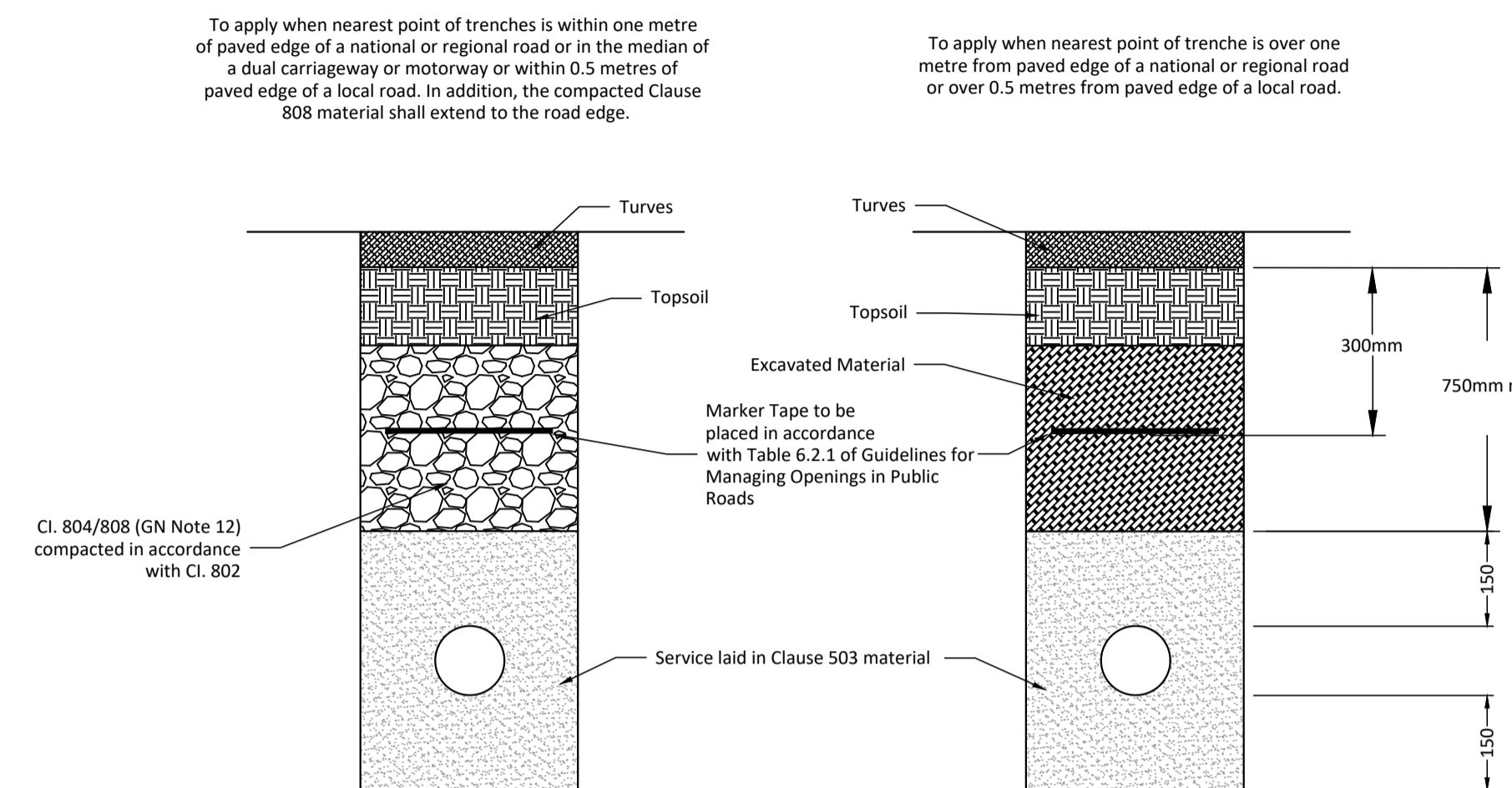


Standard Drawing SD13
SCALE 1:10

NOTES:

- Notes 1-17 listed in General Reinstatement Notes apply.
- Only contractors who have demonstrated competencies in this specialist area shall be approved by the road authority.
 - Road authorities may have additional requirements regarding specialist/enhanced surfaces.
 - Add fresh sand or specialist bedding material and compact with a plate compactor. One pass of plate compactor, then sand and compact with two or three passes to ensure full interlock. Additional sand is spread to stand proud of adjacent sand.
 - Use a slightly cambered profile over width of trench to counter any tendency to settle under traffic/load.
 - Relay blocks as tightly as possible.
 - 2 to 5mm Joints between blocks to be filled with 3:1 sand cement mortar - the sand is to comply with grade F in Table of IS 5.
 - The difference in level between two adjacent blocks shall not exceed 3mm.
 - Where works are in close proximity to trees/tree roots compliance with BS 5837:2012 is required. (See Chapter 6)
 - Where a standard depth cannot be met, see detail for protection slab.

GRASS VERGES, MEDIANS, FIELDS AND LAWNS PERMANENT REINSTATEMENT



TRENCH DETAIL IN GRASS MARGINS
Standard Drawing SD14
SCALE 1:10

NOTES:

- Notes 1-17 listed in General Reinstatement Notes apply.
- Prior to excavation, all grass areas are to be cut into turves which are to be carefully stacked and re-used within one week of cutting during the period 1st April to 31st August or within two weeks of cutting during the remainder of the year. Turves not used within these periods shall be regarded as topsoil. Outside of this period or where turves from grass area are not suitable, imported turves approved by the road authority are to be used.
 - Where topsoiling and seeding is permitted by the road authority the following shall apply:
 - Prior to seeding or turfing, an approved fertilizer shall be evenly distributed on the topsoil at a rate of not less than 100g per sq. metre.
 - The areas to be grassed shall be covered with topsoil to a minimum depth of 100mm which shall be reduced to a fine tilth, free from stone and debris with any dimension greater than 35mm. The topsoil shall be graded and lightly compacted to 100mm depth or existing depth - whichever is greater. Any upstanding debris or stones exceeding 25mm dimension shall be removed.
 - Pay due regard to the season and weather condition before sowing grass seed. Immediately prior to sowing the grass seed, the topsoil shall be reduced to a fine tilth. Sowing the grass seed shall be carried out by an even distribution, using a blend of (per Hectare) 170kg Manhattan Rye grass and 13kg Dwarf Clover or other mix as specified by the road authority. For slopes in excess of ten degrees, these quantities shall be increased by 50%. The area shall be watered every second day.
 - All drainage channels shall be marked on the carriageway, mapped and shall be fully restored in conjunction with verge reinstatement to ensure that surface water runoff is discharged from the road surface.
 - All temporary reinstatement as detailed above shall be carried out immediately after backfilling the trench. When all settlement has taken place or after a three month period, whichever is the greater, the trench shall be topped up with topsoil to its original level.
 - Where works are in close proximity to trees/tree roots compliance with BS 5837:2012 is required. (See Chapter 6)
 - Where a standard depth cannot be met, see detail for protection slab.

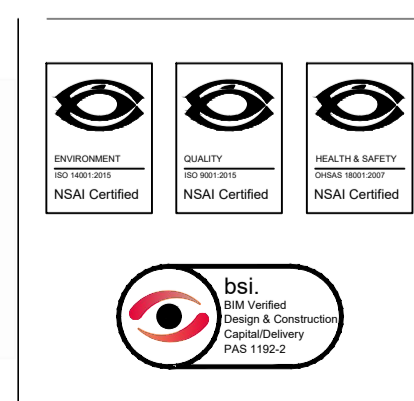
PLANNING DRAWING.

NOT FOR CONSTRUCTION.
ALL LEVELS GIVEN ARE
RELATIVE TO ORDNANCE DATUM.
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION
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- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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| Rev No. | Date | Revision Note | Drn by | Chkd by |
|---------|----------|---------------------------------------|--------|---------|
| P01 | 15.05.19 | SUITABLE FOR INFORMATION | IK | SD |
| C01 | 21.10.20 | STAGE COMPLETED - ISSUED FOR PLANNING | SMG | AH |

| Rev No. | Date | Revision Note | Drn by | Chkd by |
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| Client: | THE PAUL HOGARTH COMPANY | | | | | | | | | | |
| Project: | RATHANGAN PUBLIC REALM | | | | | | | | | | |
| Title: | TYPICAL DETAILS SHEET 3 OF 3 | | | | | | | | | | |
| Code | Originator | Zone | Level | Type | Role | Number | Status | Revision | | | |
| P293 | OCSC | XX | XX | DR | C | 2602 | A1 | C01 | | | |
| Date: | 15.05.19 | Scale: | NTS | @ | A1 | Drn by: | IK | Chkd by: | JS | Aprvd by: | AH |