

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE

A) DEPTH OF TRENCH TO BE CUT FROM THE FINISHED SURFACE TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:

a) ALL EXISTING PATHTWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS -
DEPTH NOT LESS THAN 0.5m (THIS WOULD NORMALLY REQUIRE TO DRAIN IN TO A NEAREST DRAINAGE POINT). IF THIS IS NATURALLY AN UNDÉSIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS.

b) DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS WEIGHT THAT EXCEEDS 7.5 TONNES -
DEPTH NOT LESS THAN 0.75m

c) DRIVEWAYS, PARKING AREAS AND MARKET STREETS WITHOUT FOOTWAYS OR SIDEWALKS -
MINIMUM ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES WHEN A GRANULAR PIPE IS USED

d) DEPTHS OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED ABOVE

e) AESTHETICAL LAND AND PUBLIC OPEN SPACE -
DEPTH NOT LESS THAN 0.9m

f) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES -
DEPTH NOT LESS THAN 0.9m

WEIGHT IN EXCESS OF 7.5 TONNES -
DEPTH NOT LESS THAN 1.2m

3. CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS, DRIVEWAYS OR YARDS. WHERE A PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY, CLAUSE 802 OF THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS, SELECTED EXCAVATED MATERIAL MAY BE USED INSTEAD OF GRANULAR PIPE SURROUND MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER

4. PILING SHOLDING SHALL COMPLY WITH WIS-802 AND IGSN 4-06 GRANULAR MATERIAL SHALL BE 14mm To 5mm Graded AGGREGATE OR 10mm single sized GRANULAR MATERIAL LAYED ON A 150mm BEDDING HAUNCH & SURROUND, WHERE REQUIRED SHALL BE TO IRISH WATER STANDARDS. IN SOFT Ground CONDITIONS (CBR <5) A 300mm Bedding Haunch Shall Be Provided AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND ENVIRONMENTAL PROTECTION ACT IN CONFORMANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL. IN TOILET TRENCHES, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ECT., MAY BE REQUIRED WHERE THE DEPTH OF TRENCH IS GREATER THAN 1.5m. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK.

5. THE GRANULAR PIPE SURROUND BACKFILL (SELECTED EXCAVATED MATERIAL) WILL BE ALLOWED ABOVE THE SIDE HAUNCH GRANULAR MATERIAL. IN THE CASE OF RIVERSIDE GRANULAR SURROUND OF A MINIMUM DEPTH OF 150mm ABOVE THE CROWN OF THE PIPE IS REQUIRED FOR EXISTING AND NEW BULKHEADS. MATERIAL MAY BE USED AS BACKFILL PROVIDED THIS ALLISING MAINS IN GREENFIELD AREAS SHALL HAVE A MINIMUM COVER OF 150mm GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE.

6. PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS AT ANY DEPTH. GRANULAR MATERIAL SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH GRANULAR MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID IN 150mm LAYERS.

7. NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT TOP OF PIPE BEDDING IN THE CASE OF METAL PIPE. IT SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO FITTINGS AND TERMINATED AT EITHER END OF PUMPING STATION AND DISCHARGE MANHOLE.

8. TRENCH WIDTHS FOR PIPE SIZES ≤80mm

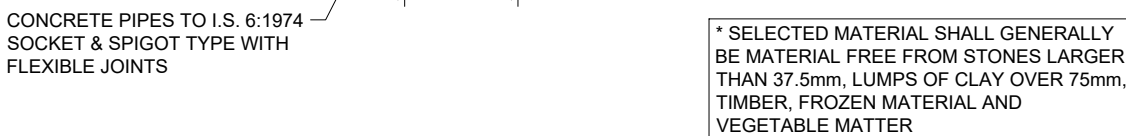
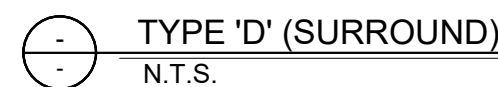
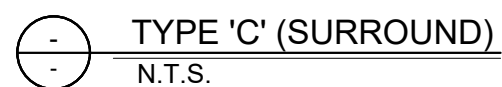
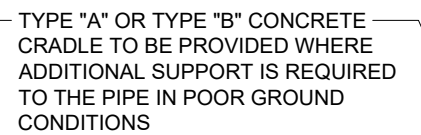
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Diagram illustrating a trench excavation cross-section. The trench is excavated into the ground, and the surrounding area is filled with lean mix bed and surround to pipework. The trench is labeled "TRENCH EXCAVATED". The surrounding area is labeled "LEAN MIX BED AND SURROUND TO PIPEWORK". The depth of the trench is indicated as "VARIES". The bottom of the trench is labeled "BEDROCK". A dimension line indicates a depth of 100 units.




SECTION 1-1
SCALE: 1:20

Figure 10: Typical Detail of a 150mm Diameter Pipe in a Road Pavement. The diagram shows a cross-section of a road pavement with a 150mm diameter pipe. The pipe is surrounded by a 150mm thick layer of mass concrete bedding and surround (Grade C15 N20). Above the concrete is a layer of granular fill material (Type B) compacted in 300mm layers. The total thickness of the pavement is 300mm. A marker tape is shown on the top surface of the concrete bedding. The diagram is labeled with dimensions and material specifications.



SECTION 2-2
SCALE: 1:20

NOTE:
DETAIL APPLIES WHERE COVER 'H' IS LESS THAN 1.2m IN
ROADS AND PAVED AREAS, 0.9m IN FIELDS AND FOOTPATHS
AND 0.6m IN GARDENS.

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Project Name: RATHFARNHAM CASTLE COURTYARD			Scale: A.S @ A1	Project Number: 2332							
Drawing Title: STANDARD DETAILS SHEET 1			Project: RCC	Originator: CORA	Zone: ZZ	Level: ZZZ	Type: DR	Discipline: C	Drawing No: 0023	Stage: 01	Revision: PL1