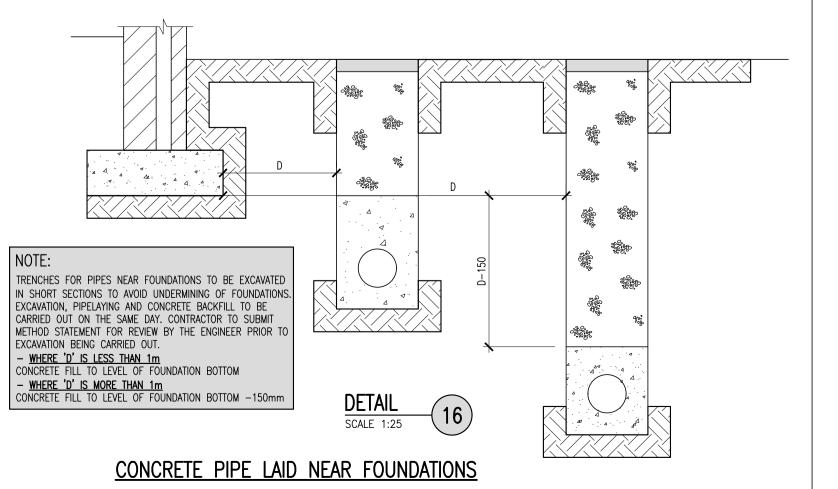
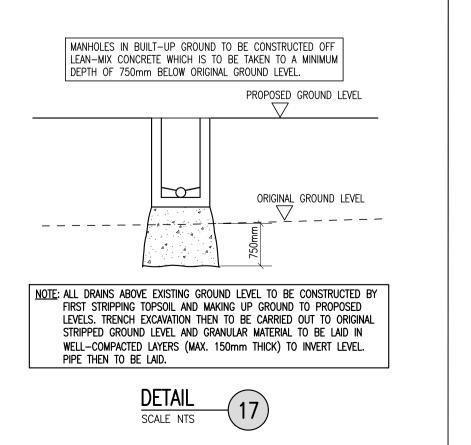


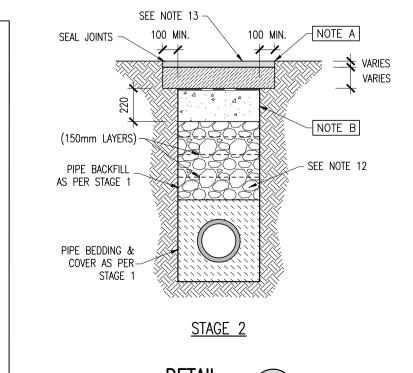
/ FAIDS	(SIMILAR)				
	WATERMAIN/	'RISING	MAIN	BEDDING	
	•				
•					

TABLE 2	LANDSCAPED AREAS	ROADWAYS/ FOOTPATHS	NOTES
CONCRETE PIPE (>1.2m COVER)	1,3	2,4	A, DETAIL 4 NOT ACCEPTABLE IN DCC AREA
CONCRETE PIPE (1.2m > D > 0.9m)	1,3	7	A
CONCRETE PIPE (0.9m > D > 0.75m)	7	7	A
CONCRETE PIPE (0.75m > D > 0.60m)	8	8	A
CONCRETE PIPE (0.6m > D > 0.45m)	12,13	12,13	С
FLEXIBLE PIPE (>1.2m COVER)	5	6	В
FLEXIBLE PIPE (1.2m > D > 0.9m)	5	7	В
FLEXIBLE PIPE (0.9m > D > 0.75m)	7	7	В
FLEXIBLE PIPE $(0.75m > D > 0.6m)$	8	8	В
FLEXIBLE PIPE (0.6m > D > 0.45m)	12,13	12,13	B, C
WATERMAINS (D > 0.75m)	14	15	A
RISING MAIN (D > 0.75m)	14	15	A
REINSTATEMENT OF PIPES IN EXISTING ROADS.	N/A	18	A

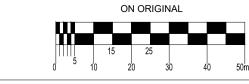




DRAINS IN BUILT-UP GROUND



REINSTATEMENT OF PIPE TRENCH IN EXISTING ROAD



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_FINISHED ROAD SURFACE

CLAUSE 808 MATERIAL

EXCEEDING 225mm

CLAUSE 803 MATERIAL

PEA GRAVEL BEDDING

CLAUSE 503.3.1

05 25 00 p.

FLEXIBLE PIPES : CRADLE

MATERIAL TO TII SPEC.

BACKFILL AS PER

CLASS S BEDDING

AFTER CONCRETE

HAS HARDENDED

BEDDING MATERIAL

CLAUSE 503.3.1

BY ENGINEER)

(WHERE REQUIRED

EXCEEDING 150mm

COMPACTED IN LAYERS NOT

COMPACTED IN LAYERS NOT

CONCRETE C25/30

- 1. RIGID PIPES SHALL MEAN CAST OR SPUN IRON, CONCRETE
- FLEXIBLE PIPES SHALL MEAN PIPES OF STEEL, PVC, OTHER PLASTIC OR DUCTILE IRON. CONCRETE C20/25 TO HAVE COVER = 50mm MIN. WITH A
- MINIMUM CEMENT CONTENT OF 260 kg/m³, MAXIMUM W/C RATIO OF 0.65 AND SLUMP CLASS S2. C25/30 CONCRETE TO HAVE A MINIMUM CEMENT CONTENT OF
- 280Kg/m³, MAXIMUM WATER/CEMENT RATIO OF 0.65 AND SLUMP CLASS S2. FOR DETAILS OF TRENCH REINSTATEMENT TO PIPES IN THE
- VICINITY OF BUILDINGS, WALLS & FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
- ALL PIPES WITH LESS THAN 1.2m COVER UNDER GRASSED AREAS AND FOOTPATHS TO BE SURROUNDED IN 150mm
- MINIMUM OF C20/25 CONCRETE. LEAN-MIX BACKFILL TO TRENCHES IN EXISTING ROADS,
- WHERE REQUIRED BY THE LOCAL AUTHORITY TO BE GRADE C20/25 CONCRETE
- TRENCH DETAILS ARE REFERENCED FROM; • GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- TII ROAD CONSTRUCTION DETAILS • DOE RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS
- BUILDING REGULATIONS
- WHERE ROCKS OR OTHER HARD TRENCH BOTTOM IS ENCOUNTERED, THE FIGURE DENOTED BY * IS TO BE
- 10. GRANULAR BACKFILL MATERIAL SHALL BE IN COMPLIANCE WITH CLAUSE 808 (GRANULAR MATERIAL TYPE B) OF THE TIL
- SPECIFICATION FOR ROAD WORKS. GRANULAR BACKFILL SHOULD BE PLACED UNIFORMLY ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 100mm, EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS MINIMUM OF 300mm COMPACTED COVER. CARE SHOULD BE TAKEN THAT THE PROCESS OF COMPACTION DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND LEVEL. SUBSEQUENT
- LAYERS OF GRANULAR FILL TO BE WELL COMPACTED IN 150mm THICK LAYERS TO THE LOCAL AUTHORITY ROAD DIVISION SPECIFICATION. MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE.
- SELECTED FILL SHOULD BE FREE FROM STONES LARGER THAN 37mm, LUMPS OF CLAY OVER 75mm, TIMBER, FROZEN MATERIAL AND VEGETABLE OR FOREIGN MATTER. SELECTED FILL SHOULD BE PLACED UNIFORMLY ON EITHER SIDE OF THE PIPE IN LAYERS NOT EXCEEDING 100mm, EACH LAYER BEING COMPACTED BY HAND TAMPING UNTIL THE PIPE HAS A MINIMUM OF 150mm COMPACTED COVER. CARE SHOULD BE TAKEN THAT THE PROCESS OF COMPACTION DOES NOT DISPLACE THE PIPE FROM ITS CORRECT LINE AND
- LEVEL. SUBSEQUENT SELECTED FILL CAN BE PLACED AND COMPACTED IN 150mm THICK LAYERS. 12. GENERAL BACKFILL MATERIAL SUITABLE FOR BACKFILL ABOVE SELECTED FILL MATERIAL SHOULD BE FREE FROM BOULDERS, LUMPS OF CONCRETE, TIMBER AND VEGETABLE OR FOREIGN / CONTAMINATED MATTER, GENERAL BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300mm, EACH
- LAYER BEING WELL COMPACTED. MECHANICAL COMPACTION EQUIPMENT SHOULD NOT BE USED UNTIL THERE IS A MINIMUM OF 450mm COMPACTED COVER OVER THE CROWN OF THE PIPE. 13. TRENCH ABOVE PIPES WITH LESS THAN 750mm COVER TO BE
- 14. SURFACING TO BE IN ACCORDANCE WITH THE ROAD SPECIFICATION AND, IF APPROPRIATE, LOCAL AUTHORITY REQUIREMENTS. 15. WHERE CLASS 6F1 / 6F2 CAPPING MATERIAL IS PROPOSED

BACKFILLED WITH C20/25 CONCRETE TO FORMATION LEVEL

WITHIN 500mm OF CONCRETE OR STEEL, CLASS 6N IS TO BE USED INSTEAD.

ALL WORKS & SPECIFICATIONS TO BE UNDERTAKEN IN ACCORDANCE WITH

- TII SPECIFICATION FOR ROADWORKS GREATER DUBLIN CODE OF PRACTICE FOR DRAINAGE WORKS
- RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS

P02	21/03/22	ISSUED FOR PLANNING			RSP	LMcL
P01	29/09/20	ISSUED FOR PRE-PLANNING			APW	BJM
rev	date	description			by	chkd.
A - Approved			ed			
client approval			B - Approved with comments			
			C - Do not use			
suitability S2 - FOR INFORMATION			TION	issue purpose PLANNING		
	B			Consulting Eng	Engine	
DUBLI PHON	IN OFFICE: Orr IE +353 1 400 4	mond Hou 000	use, Upper Ormono	d Quay, Dublin 7. D07 W704		
CORK OFFICE: 14 South Mall, Cork. T12 CT91						

WATERFORD OFFICE: Suite 8b The Atrium, Maritana Gate, Canada Street, Waterford. X91 W028 PHONE +353 51 309 500 RESIDENTIAL DEVELOPMENT AT

HACKETTSTOWN, SKERRIES, CO. DUBLIN

SURFACE WATER STANDARD DETAILS - SHEET 1

LAND DEVELOPMENT AGENCY

designed by	author	scale	sheet size
BJM	APW	AS SHOWN	A1
drawing no.			revision
190170	P02		