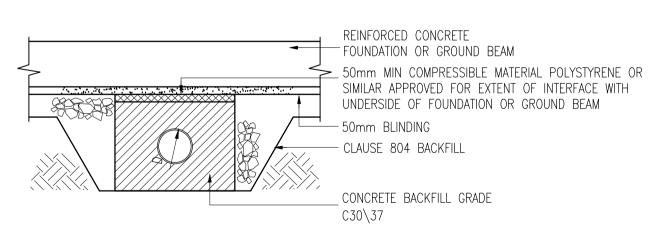
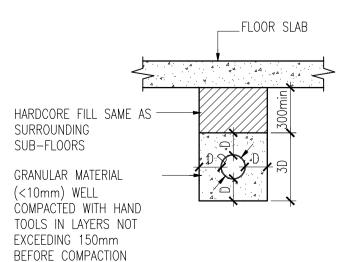


ROAD GULLY TYP. SECTION

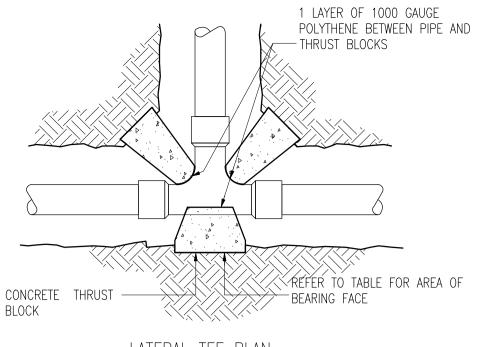


PIPE UNDER FOUNDATION

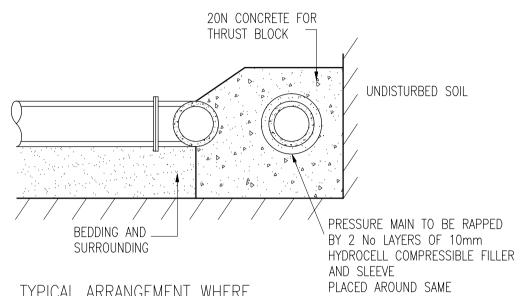
600



PIPE BEDDING DETAIL FOR UNDERFLOOR DRAINAGE



LATERAL TEE PLAN



TYPICAL ARRANGEMENT WHERE PRESSURISED MAIN PASSES THROUGH THE THRUST BLOCK

MIN AREA OF BEARING FACE OF THRUST BLOCK FIRE MAIN MAINS BLANK ENDS, 2.4m² 1.3m² TEES, VALVES 90° BEND $3.3m^2$ 1.75m² 45° BEND 1.8m² 1.0m² 22½° BEND $0.9m^2$ $0.5m^2$ 111/4° BEND $0.3m^2$ $0.6m^2$

FOR HORIZONTAL BENDS, VERTICAL HEIGHT IS TO BE NO MORE THAN HALF THE TRENCH DEPTH.

MIN VOLUME OF CONCRETE							
THRUST BLOCK							
	FIRE	WATER					
	MAIN	MAINS					
BLANK ENDS,	1.8m³	1.0m³					
TEES, VALVES	110111						
90° BEND	3.3m³	1.1m³					
45° BEND	1.5m³	0.6m³					
22½° BEND	1.2m³	0.6m³					
111/4° BEND	1.2m³	0.6m³					

THRUST BLOCK: -FOR SIZE OF THRUST BLOCKS REFER TO TABLE

ALL RODS FOR THRUST BLOCKS SHALL BE GALVANISED.

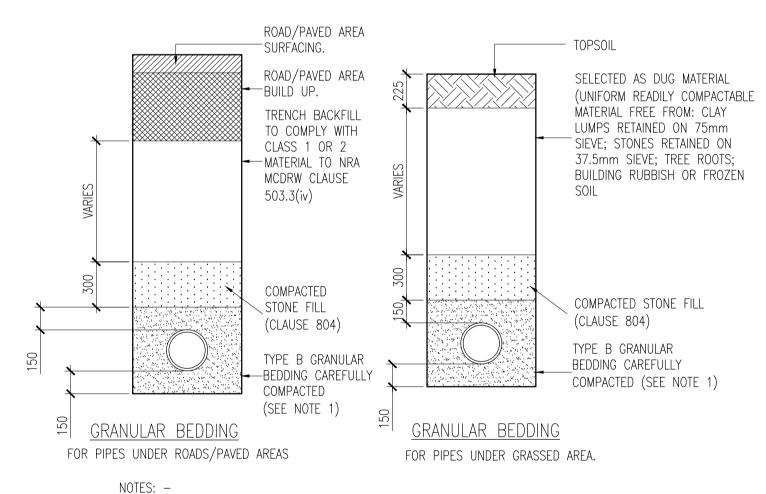
THRUST BLOCK CONCRETE SHALL BE PLACED THE SOCKET OF THE FITTING & NOT ALLOWED THE PIPE OR JOINT.

BLOCKS TO BE CAST AGAINST UNDISTURBED EARTH.

ALL VALVES & HYDRANTS SHALL BE FIRMLY SUPPORTED BEFORE BLOCKS ARE POURED.

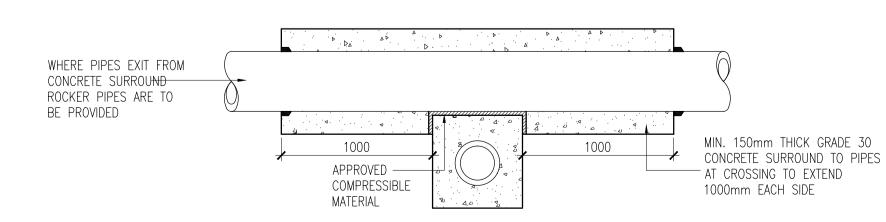
CONCRETE COMPRESSIVE STRENGTH SHALL BE 20N 28 DAYS.

1 LAYER OF 1000 GAUGE POLYTHENE TO BE BETWEEN PIPE AND THRUSH BLOCK



1) GRANULAR BEDDING TYPE B SHALL CONSIST OF GRAVEL GRADED FROM 9.5mm TO 4.75mm. OTHER GRANULAR MATERIALS MAY BE USED SUBJECT TO APPROVAL 2) ALL PIPES UNDER FOUNDATIONS AND FLOORS SHALL BE HAUNCHED

TYPICAL FOUL SEWER & SURFACE WATER PIPE BEDDING DETAILS



TYPICAL DETAIL AT PIPE CROSSING (FOR GAPS BETWEEN PIPES OF LESS THAN 300mm)

ALL SETTING OUT DIMENSIONS TO BE CHECKED AGAINST ARCHITECTS DRAWINGS. ARCHITECTS DRAWINGS TO TAKE PRECEDENCE.

GENERAL NOTES:-

SPECIFICATIONS.

OTHERWISE NOTED.

TO ARCHITECTS DRAWINGS

CENTRE TO CENTRE

STRUCTURAL FLOOR LEVEL

UNLESS NOTED OTHERWISE

FINISHED FLOOR LEVEL

TOP OF CONCRETE

TOP OF STEEL

ABBREVIATIONS:-

BOTTOM

CENTRES

BTM

C/C

CTRS

TOC

TOS

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL

RELEVANT ARCHITECTS & ENGINEERS DRAWINGS &

ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START

OF CONSTRUCTION. ALL DISCREPANCIES TO BE NOTIFIED, IN

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS &

WRITING TO ENGINEERS & ARCHITECTS FOR RESOLUTION.

4. ALL DIMENSIONS ON DRAWINGS ARE IN MILLIMETRES UNLESS

5. FOR DETAILS AND SETTING OUT OF RWP, SVP, WVP & ALL

6. FOR RADON BARRIER, D.P.C. & INSULATION DETAILS REFER

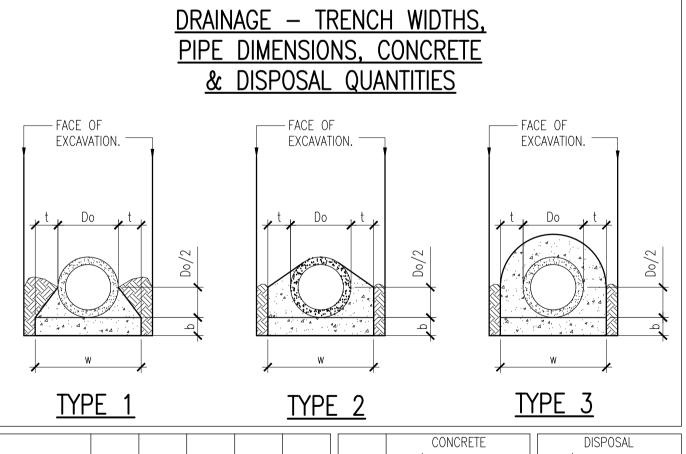
OPENINGS SEE THE RELEVANT ARCHITECTS DRAWINGS.

2. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

Issue Register								
								
								
PL1	12/04/18	ISSUED FOR PLANNING	MT	LMJ	MJP			
No.	Date	Revision	Drawn	Checked	Approved			

PLANNING							
	Client: KILKENNY COUNTY COUNCIL						
m	Project: NEW COMMUNITY DWELLING HOUSE AT CLOUGHABRODY THOMASTOWN						
	PROPOSED SEWER DETAILS						
Martin Peters Associates Consulting Engineers	Project No: 1810	Scale: 1:50@A3					
Ormonde Road Kilkenny	Drawing No: 1810	Rev:					
T: + 353 56 7702761 F: + 353 56 7790728 E: info@mpa.ie	Drawn: MT	Date: 11/04/18					

SURFACING. DIM A=100m15N/mm2 CONCRETE REQUIRED WHERE COVER ROAD/PAVED AREA TO PIPES IS LESS THEN 0.9m & —BUILD UP. REQUIRED THROUGHOUT FOR PIPES UNDER FLOOR SLABS. ALSO REQUIRED WHERE COVER TO SEWER PIPES IN GRASSED/LIGHTLY TRAFFICKED AREAS IS LESS THEN 0.9m FOR PVC PIPES & 0.6m FOR EARTHENWARE PIPES. PROVIDE 12mm VERTICAL MOVEMENT AT MAX. INTERVAL OF 5m IN CONCRETE SURROUND. **CONCRETE SURROUND**



							CONCRETE cum/m RUN OF SEWER		I	DISPOSAL m/m RUN OF SEWER			
AMETER					WIDTH	BED	HAUNCH & SURROUND		,				
MM	Do	b	t	w	TRENCH	TYPES	1	2	3	1	2	3	
100	150	100	100	350	600	035	016		058	069		111	
150	210	100	100	410	700	041	022	076	076	098	NOT	152	
225	300	120	150	600	750	072	038	USED	156	175	USED	293	
300	400	120	150	700	850	084	056		198	251		393	
375	480	150	150	780	950	117		120	260		420	540	
450	560	150	150	860	1000	129		160	300		540	660	
525	650	150	150	950	1100	143			180	340		660	810
600	735	150	150	1035	1200	155		190	380		770	950	
675	870	200	200	1150	1350	230	NOT	300	550	NOT	1000	1200	
750	910	200	200	1310	1450	262	USED	340	660	OSED	1250	1530	
900	1080	200	200	1480	1650	296		380	740		1590	1960	
1050	1260	250	250	1760	1900	440		580	1080		2270	2770	
1200	1425	250	250	1925	2100	481		640	1230		2720	3310	
	MM 100 150 225 300 375 450 525 600 675 750 900 1050	MM Do 100 150 150 210 225 300 300 400 375 480 450 560 525 650 600 735 675 870 750 910 900 1080 1050 1260	MM Do b 100 150 100 150 210 100 225 300 120 300 400 120 375 480 150 450 560 150 525 650 150 600 735 150 675 870 200 750 910 200 900 1080 200 1050 1260 250	MM Do b t 100 150 100 100 150 210 100 100 225 300 120 150 300 400 120 150 375 480 150 150 450 560 150 150 525 650 150 150 600 735 150 150 675 870 200 200 750 910 200 200 900 1080 200 200 1050 1260 250 250	MM Do b t w 100 150 100 100 350 150 210 100 100 410 225 300 120 150 600 300 400 120 150 700 375 480 150 150 780 450 560 150 150 860 525 650 150 150 950 600 735 150 150 1035 675 870 200 200 1150 750 910 200 200 1310 900 1080 200 200 1480 1050 1260 250 250 1760	MM Do b t w TRENCH 100 150 100 100 350 600 150 210 100 100 410 700 225 300 120 150 600 750 300 400 120 150 700 850 375 480 150 150 780 950 450 560 150 150 860 1000 525 650 150 150 950 1100 600 735 150 150 1035 1200 675 870 200 200 1150 1350 750 910 200 200 1310 1450 900 1080 200 200 1480 1650 1050 1260 250 250 1760 1900	MM Do b t w OF TRENCH TYPES ALL TYPES 100 150 100 100 350 600 035 150 210 100 100 410 700 041 225 300 120 150 600 750 072 300 400 120 150 700 850 084 375 480 150 150 780 950 117 450 560 150 150 860 1000 129 525 650 150 150 950 1100 143 600 735 150 150 1035 1200 155 675 870 200 200 1150 1350 230 750 910 200 200 1310 1450 262 900 1080 200 250 1760 1900 440	MM Do b t w TRENCH TYPES 1 100 150 100 100 350 600 035 016 150 210 100 100 410 700 041 022 225 300 120 150 600 750 072 038 300 400 120 150 700 850 084 056 375 480 150 150 780 950 117 450 560 150 150 860 1000 129 525 650 150 150 950 1100 143 600 735 150 150 1035 1200 155 675 870 200 200 1310 1450 262 900 1080 200 200 1480 1650 296 1050 1260 250 250 1760 1900 440	METER MM Do b t w WIDTH OF TRENCH TYPES 1 2	METER Do b t w ITRENCH TRENCH TRENCH DO	MM Do b t w MIDTH OF TRENCH 150 100 100 350 600 035 016 225 300 120 150 600 750 072 038 056 150 150 150 780 950 1107 129 160 525 650 150 150 150 950 1100 143 675 675 870 200 200 1310 1450 1650 296 1050 1200 250 1200 1200 1480 1650 296 1050 1200 1200 1200 1200 1480 1650 1260 1260 1260 1260 1260 1260 1260 126	METER MM Do b t w MIDTH OF TRENCH TRENCH TRENCH TYPES 1 2 3 1 2 100 150 100 150 100 100 10	