

CONCRETE SLAB 1 LAYER A252 MESH. ROAD FORMATION, SUB-FORMATION OR UNDERSIDE OF TOPSOIL OVER 1200mm IN VEHICULARISED AREAS BACKFILL TO CLAUSE 50 PEDESTRIANISED AREAS. OF DTp. SPECIFICATION. MINIMUM 300mm BEARING ON ORIGINAL GROUND. GRANULAR BEDDING-**CLASS B BEDDING** (BEDDING FACTOR 1.9) BEDDING BENEATH AND AT THE SIDES OF THE PIPE TO BE WELL COMPACTED THE FIRST 300MM OF FILL

PROTECTION FOR PIPES LAID AT SHALLOW DEPTHS

**CLASS OF** IMPORTED GRANULAR DIAMETER BEDDING MATERIAL (NOTE 1) 100 10mm nominal size OVER 10 or 14mm nom. single size or 14 to 5mm graded 100 to 150 10,14,20mm nom. single size OVER or 14 to 5mm graded or 20 to 5mm graded to 500

ANGULAR MATERIALS SHOULD BE CHOSEN TO

WITH FLEXIBLE PIPES

ENSURE SUFFICIENT SUPPORT IS PROVIDED TO

HEAVIER PIPES. CLASS S BEDDING SHALL BE USED

10,14,20mm nom. single size

DUCTILE IRON GULLY GRATING AND FRAME TO BE

CLASS D400 TO BS EN 124.

FOOTWAY PROFILE:

**GRANULAR TYPE 1 FILL** 

150mm THK. SUB BASE

150mm THK. CONCRETE BED AND

UNREINFORCED, TRAPPED, PRECAST

CONCRETE GULLY POT TO B.S. 5914

150mm MIX ST4 CONCRETE BED

SURROUND OF 25 N/mm 28 DAY

STRENGTH.

or 14 to 5mm graded

or 20 to 5mm graded

or 40 to 5mm graded

crushed rock

IMPORTED GRANULAR MATERAILS TO INCLUDE AGGREGATES TO BS 882, AIR-COOLED BLAST FURNACE

SLAG TO BS 1047 & SINTERED PULVERIZED FUEL ASH TO

OVER

(note 2)

500

**GRANULAR BEDDING & SIDEFILL** MATERIALS FOR RIGID + FLEXIBLE PIPES BY INSERTING COMPRESSIBLE BOARD AT INTERVALS NOT EXCEEDING 5000mm. PRECUT TO DIAMETER, HEIGHT AND WIDTH EQUAL TO THE CONCRETE CROSS SECTION. REFER TO DIMENSIONS FOR PIPE BEDDING TABLES FOR THICKNESS OF FILLER FOR VALUES OF Y REFER TO DIMENSIONS FOR PIPE BEDDING TABLES

PIPE DIAMETER	Y minimum		MAXIMUM TRENCH	L
	Y1 min.	Y2 min.	WIDTH	_
100	100	200	700	18
150	100	200	750	18
200	100	200	800	18
225	100	200	825	18
250	100	200	850	18
300	100	200	925	18
350	100	200	1000	18
375	100	200	1090	18
400	150	200	1025	18
450	150	200	1175	36

- CARRIAGEWAY PROFILE.

FRAME BEDDED ON 10mm MORTAR BED.

2 COURSES OF CLASS B ENGINEERING BRICKS TO

B.S. 3921, 215mm WIDE, IN ENGLISH BOND. BEDDED

GALVANISED C.I. STOPPER AND CHAIN.

CONNECTING PIPEWORK TO HIGHWAY DRAIN TO

BE IN 150mm CONCRETE BED AND SURROUND.

EXCEPT WHERE COVER TO CROWN OF PIPE

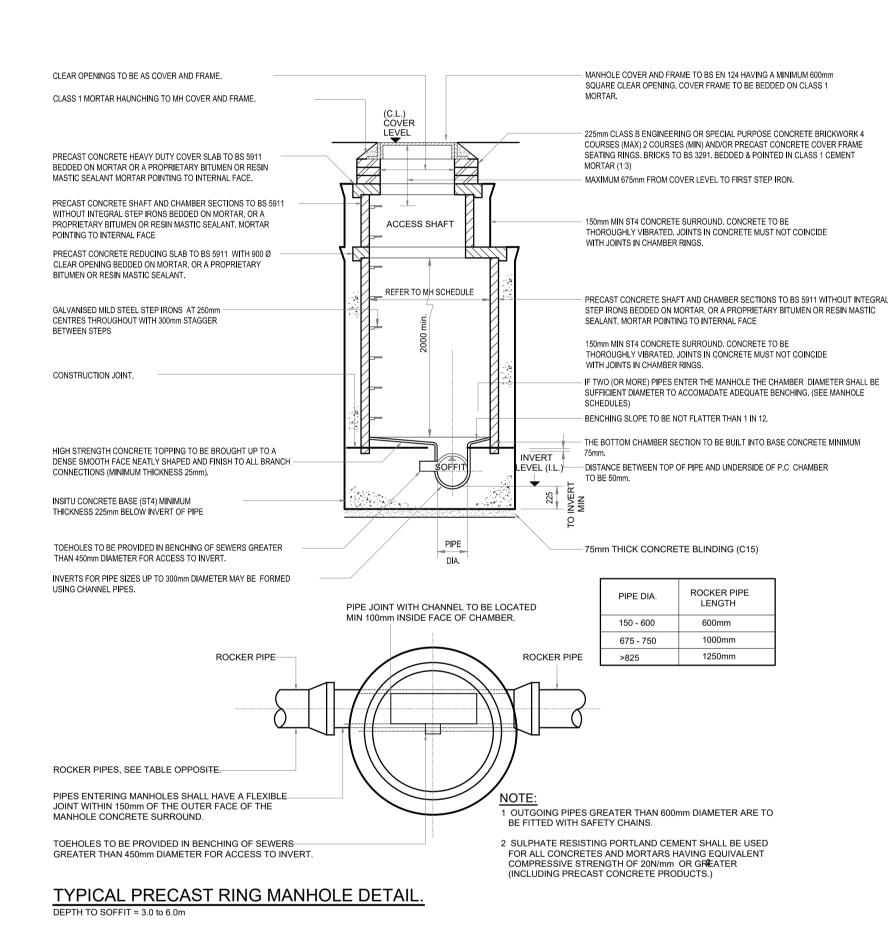
EXCEEDS 1200mm. CONNECTION TO HIGHWAY

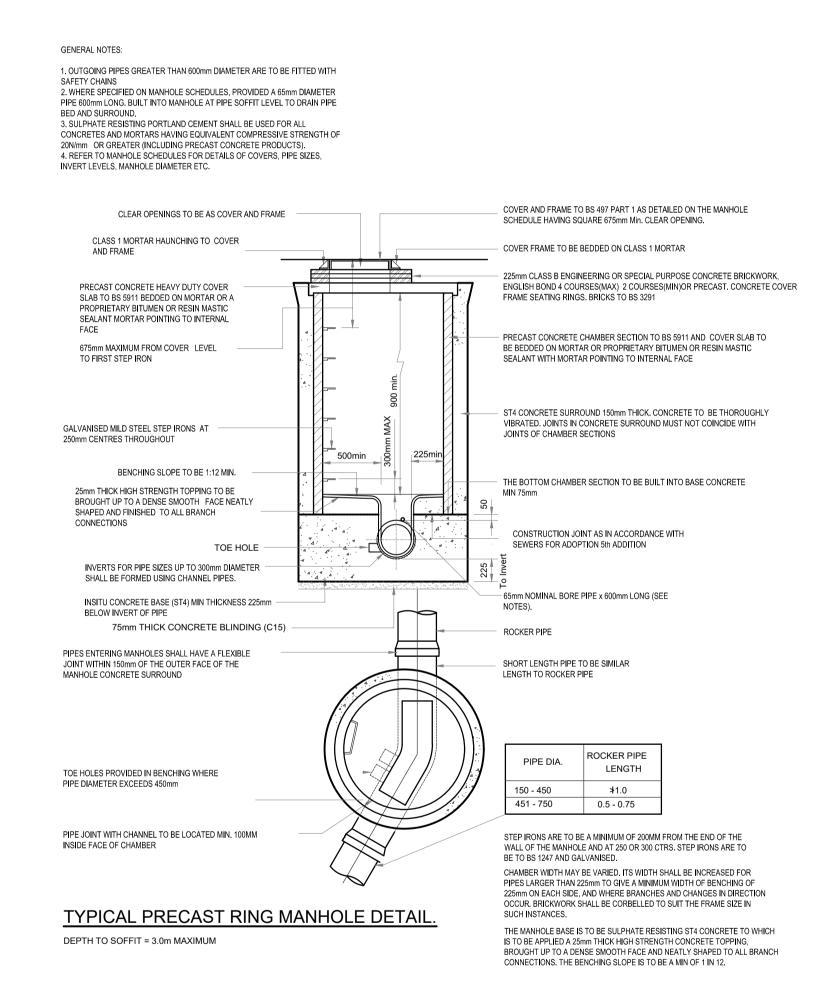
18mm THK. FLEXCELL TO BE USED TO FORM A

DRAIN TO BE BY MEANS OF A 'Y' JUNCTION.

AND JOINTED WITH 1:2 (CEMENT/SAND) MORTAR.

DIMENSIONS FOR PIPE BEDDING





ABOVE THE CROWN OF THE PIPE IS TO BE LIGHTLY TAMPED BY HAND. MECHANICAL COMPACTION MAY BE

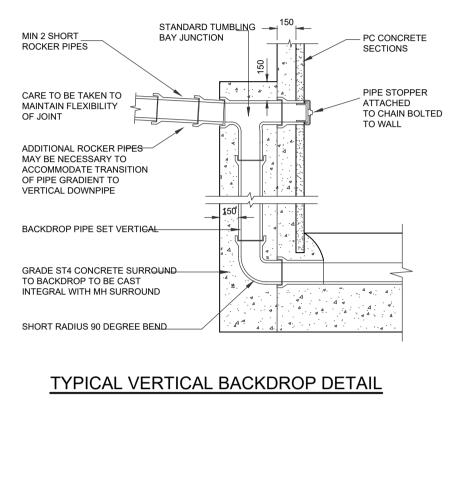
USED ONLY ABOVE THIS LEVEL. GEOTEXTILES MAY BE USED WHERE DIRECTED OR APPROVED BY THE

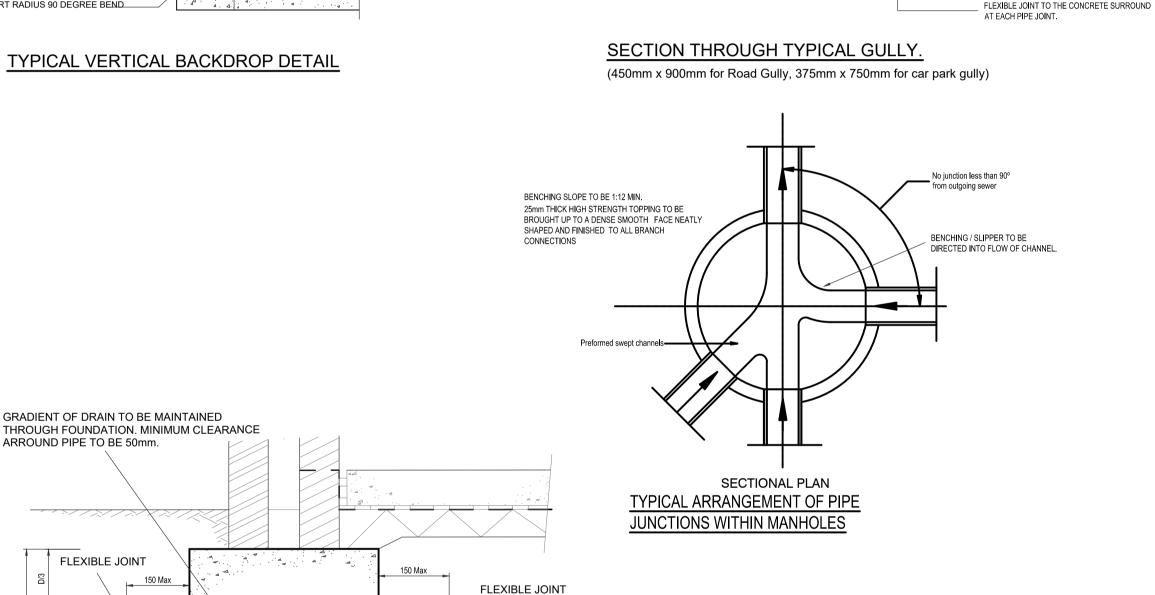
CONDITIONS, WHERE DIRECTED OR APPROVED BY THE ENGINEER A TEMPORARY LAND DRAIN MAY BE

GRANULAR PIPE BEDDING DETAILS FOR RIGID PIPES

ENGINEER TO CONTAIN BEDDING MATERIAL IN CERTAIN SOILS E.G. RUNNING SAND IN VERY WET

LAID WITHIN THE GRANULAR BED.

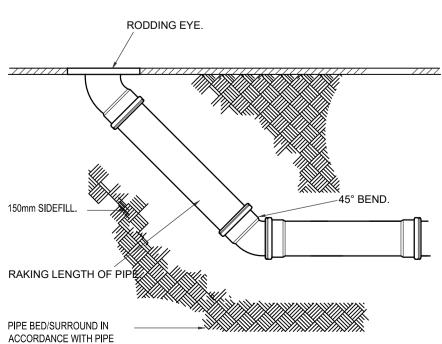




ARROUND PIPE TO BE 50mm. FLEXIBLE JOINT FLEXIBLE JOINT **ROCKER PIPE** (MAX. 600mm) ROCKER PIPE SLEEVE (MAX. 600mm)

DRAIN SLEEVE/DUCT TO BE LOCATED WHOLLY WITHIN THE MIDDLE THIRD OF THE FOUNDATION DEPTH(D).THE ENGINEER IS TO BE ADVISED IF THIS IS NOT POSSIBLE. IN NORMAL SOIL CONDITIONS THE SLEEVE/DUCT IS TO GIVE A 50mm CLEARANCE ALL ROUND THE OUTSIDE OF THE DRAIN PIPE (THIS MAY BE ACHIEVED BY LIGHTLY PACKING THE SPACE WITH COMPRESSIBLE FILLER MATERIAL) MAXIMUM SLEEVE SIZE TO BE 300mm WITHOUT REFERENCE TO THE ENGINEER.

## DRAINS THROUGH STRIP FOUNDATIONS



BEDDING DETAILS.

PROJECT	
OLDCOURT LRI	)

P01 ISSUED FOR PLANNING

CAPAMI LTD

REV DESCRIPTION

CLIENT

DRAWING TITLE DRAINAGE TYPICAL **DETAILS** 

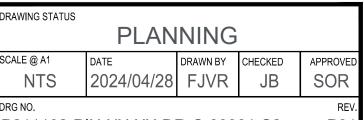


FJVR JB 02/09/24

BY CHK/ DATE APP

GROSVENOR COURT 67A PATRICK STREET, DUN LAOGHAIRE, COUNTY DUBLIN, IRELAND, A96 W3Y7

TELEPHONE: +353 1 2311041 NORWICH WELWYN GARDEN CITY LONDON THE HAGUE FRANCEURT



TYPICAL RODDING EYE DETAIL

HARDSTANDING 40mm SINGLE SIZED GRÁVEL TERRAM MEMBRANE

**GRAVEL STRIP DETAIL** 

SELECTED FILL FREE FROM STONES LARGER THAN 40mm, LUMPS OF CLAY OVER 100mm, TIMBER, FROZEN MATERIAL, VEGETABLE MATTER OVER 900mm IN VEHICULARISED AREAS OVER 600mm IN LANDSCAPED/ PEDESTRIANISED AREAS SELECTED FILL OR GRANULAR FILI FREE FROM STONES LARGER THAN GRANULAR MATERIAL

FREE DRAINAGE GRANULAF MATERIAL BACKFILL 100mm DIAMETER PVC LAND 1000 GAUGE "TERRAM". OR SIMILAR APPROVED, LAND DRAIN DETAIL GEOTEXTILE MATERIAL

GRANULAR PIPE BEDDING DETAILS FOR FLEXIBLE PIPES

P211102-PIN-XX-XX-DR-C-00901-S2