

NOTES

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5. TYPE A BEDDING MATERIAL TO BE 10mm SINGLE SIZED AGGREGATE TO BS EN 1610 ANNEX B TABLE B15 FOR 1000 PIPES AND 14mm FOR 1500 PIPES.
6. TYPE B TO BE UNIFORM READILY COMPACTABLE MATERIAL FREE FROM ANY TREE ROOTS, VEGETATION MATTER, BUILDING DEBRIS, FROZEN SOIL, CLAY LUMP RETAINED ON A 100mm SIEVE OR STONES RETAINED ON A 40mm SIEVE.
7. MINIMUM TRENCH WIDTHS FOR VARIOUS SIZE PIPES:

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11. CLAY PIPES TO BS EN295 AND SLEEVE JOINTED UPVC PIPES, JOINTS AND FITTINGS TO BS4660 AND BS5481.
12. PRECAST CONCRETE PIPES AND CHAMBERS TO BE TO BS 5911.
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CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2007
DESIGNERS HAZARD INFORMATION FOR CONSTRUCTION

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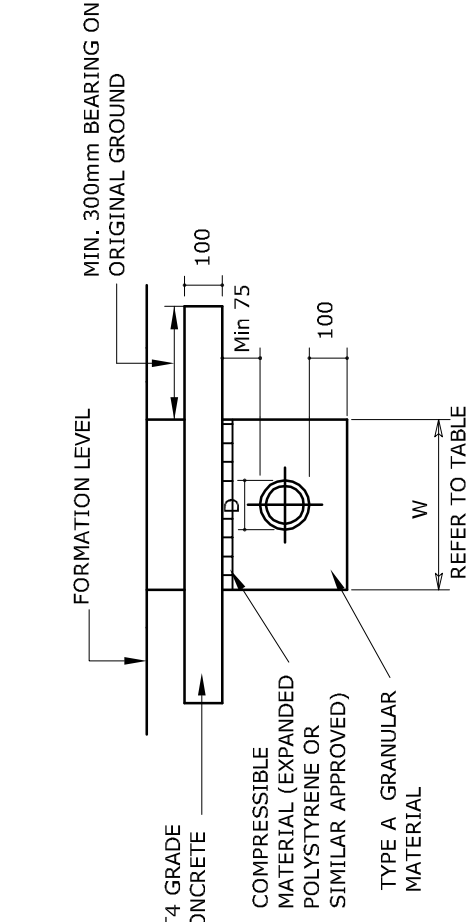
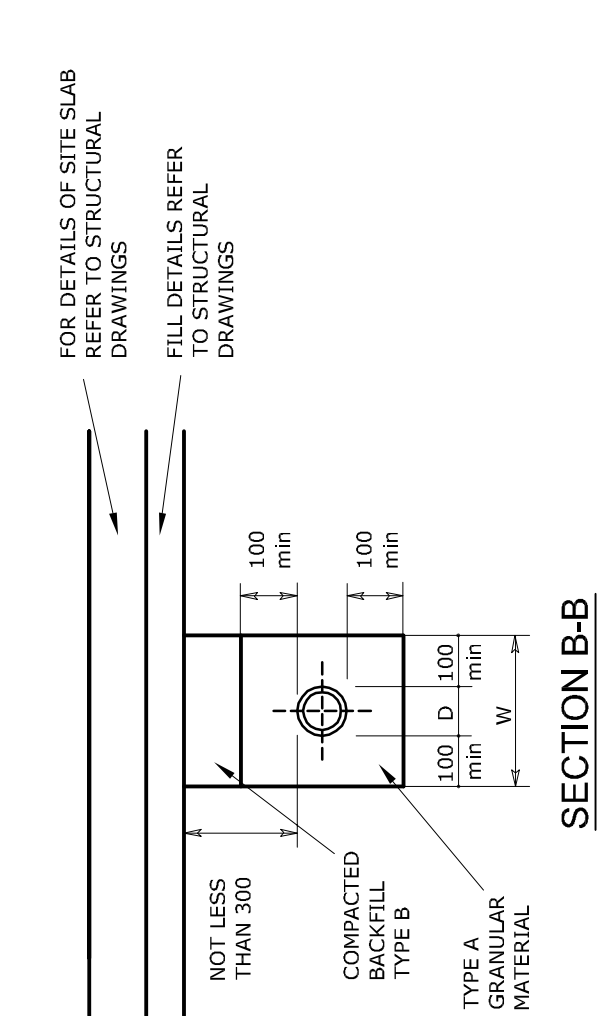
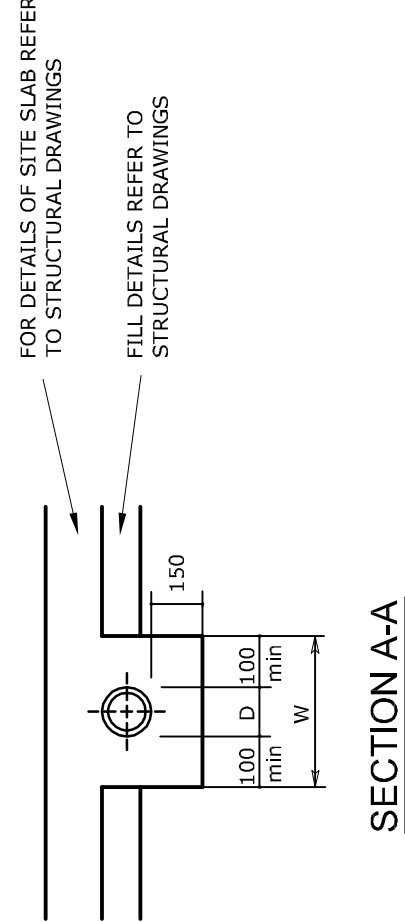
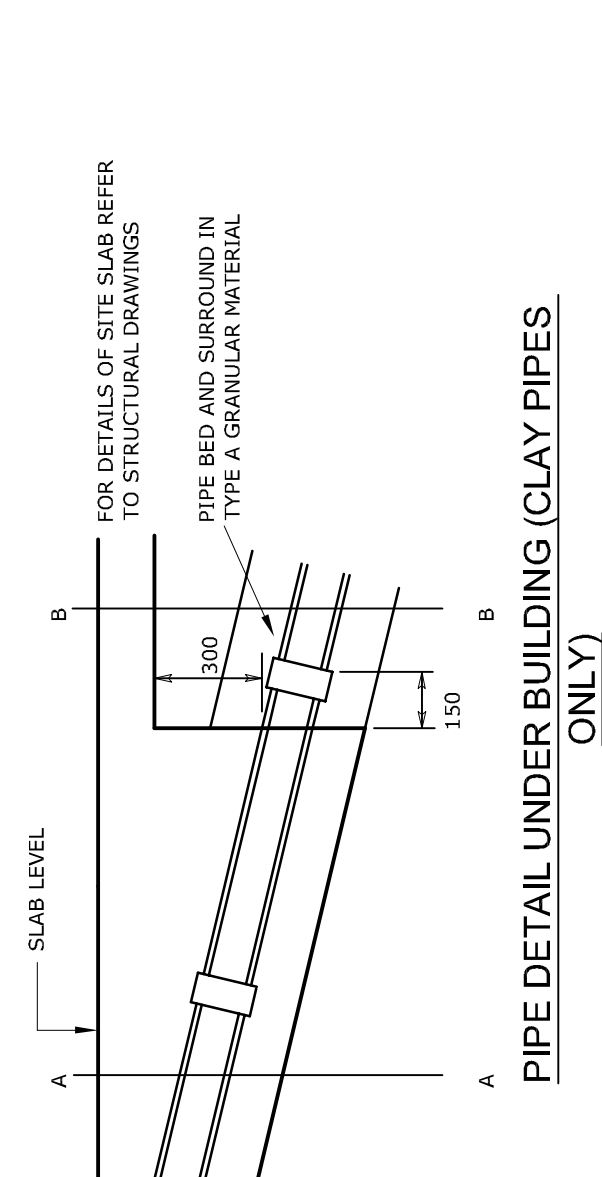
Issue	Date	Description	Made	Checked

APPROVAL



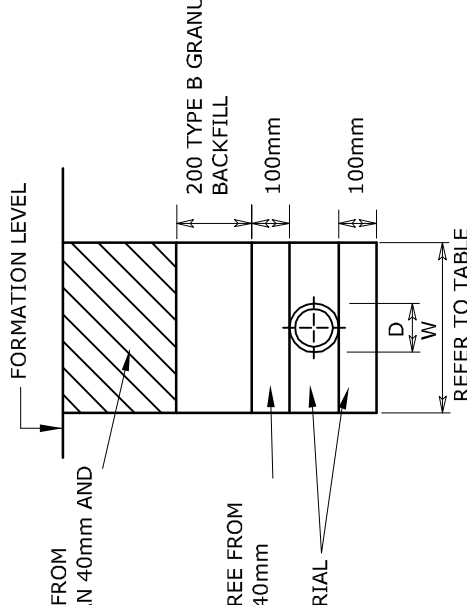
Multidisciplinary Consulting
190 Eureka Park, Upper Pemberton, Ashford, Kent TN25 4AZ
Tel: 01233 610530 Fax: 01233 618299
Website: www.mlm.uk.com

Client	GROUP 1 AUTOMOTIVE			
	Subject			
Drawing Title	CHANDLERS BMW WORTHING			
	DRAINAGE CONSTRUCTION DETAILS - SHEET 2 OF 3			
Drawn/Design kwl	Checked ...	Approved ...	Date July 2014	Rev
Scales @ A1 N.T.S. @ A3	Drawing No. 615823/007			



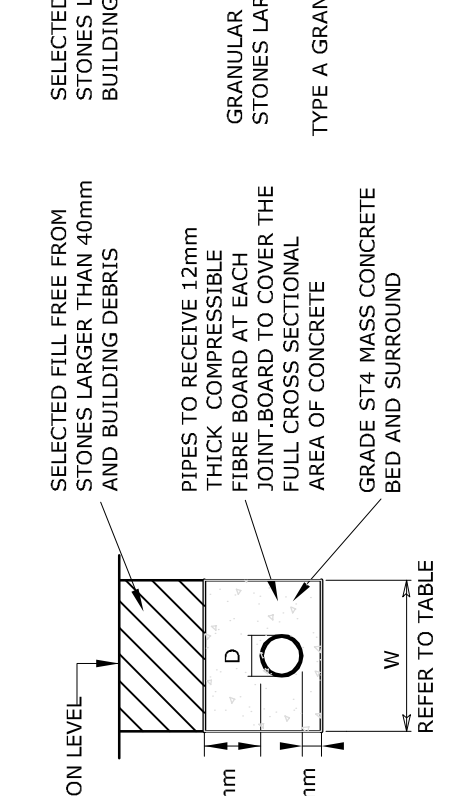
TYPE 4 (UPVC PIPES)

LOCATION: PEDESTRIAN AREAS UP TO 0.6m, PRIVATE VEHICLE PARKING AND AREAS SUBJECT TO CONSTRUCTION TRAFFIC UP TO 0.9m. (INCL. CONSTRUCTION TRAFFIC). ST4 CONCRETE CAN BE OMITTED.



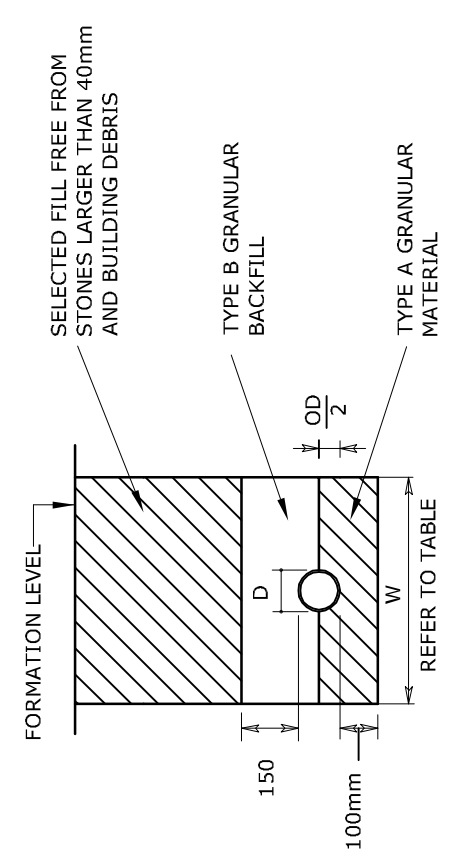
TYPE 3 (UPVC PIPES) CLASS S1

LOCATION: PEDESTRIAN AREAS: 0.6m - 7.0m VEHICLE AREAS: 0.9m - 7.0m UNDER BUILDINGS



TYPE 2 (CLAY PIPES) CLASS X

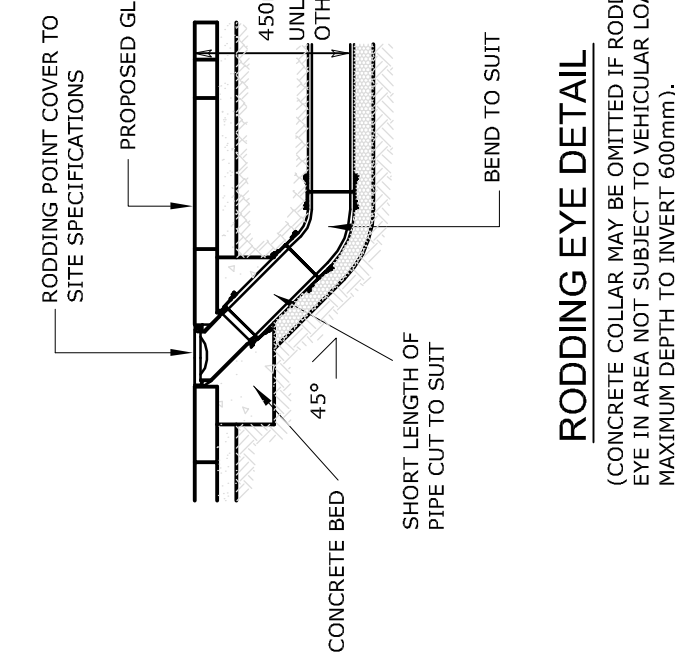
LOCATION: VEHICLE AREAS - UP TO 0.6m



TYPE 1 (CLAY PIPE) CLASS B

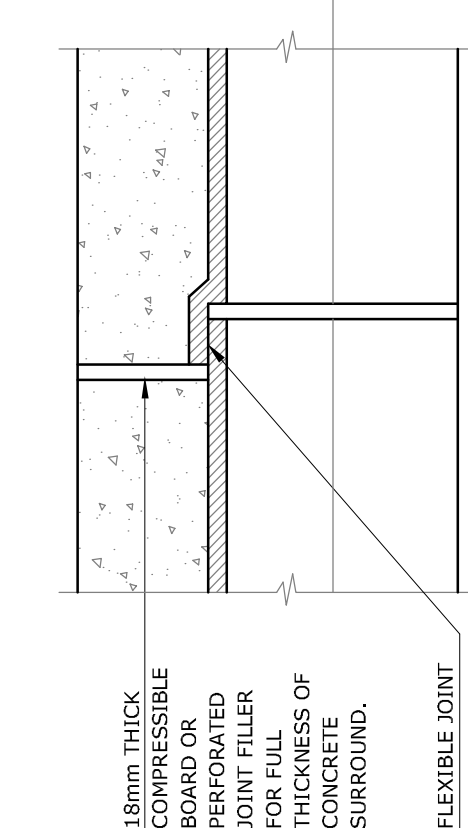
LOCATION: PEDESTRIAN AREAS UP TO 5.0m DEPTH, VEHICLE AREAS 0.6m - 5.0m

TYPICAL PIPE BEDDING DETAILS



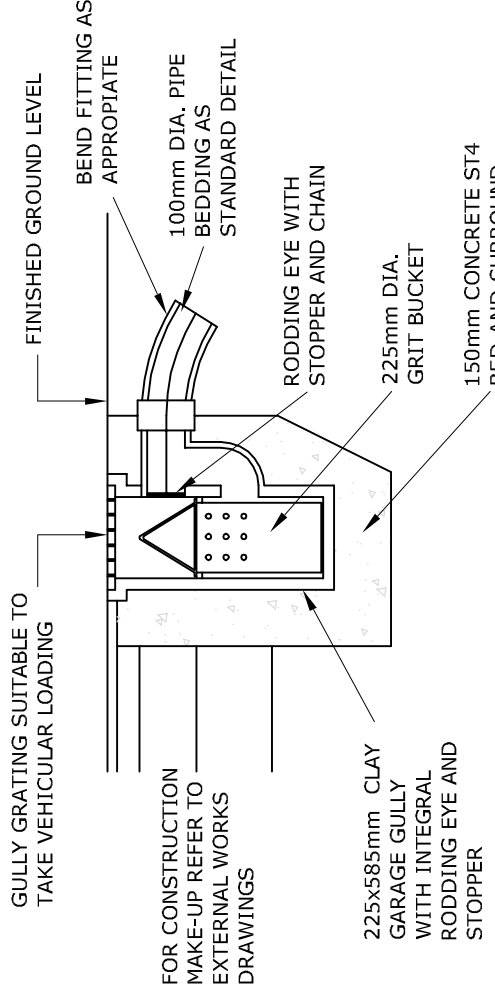
RODDING EYE DETAIL

(CONCRETE COLLAR MAY BE OMITTED IF RODDING EYE IN AREA NOT SUBJECT TO VEHICULAR LOADING. MAXIMUM DEPTH TO INVERT 600mm).



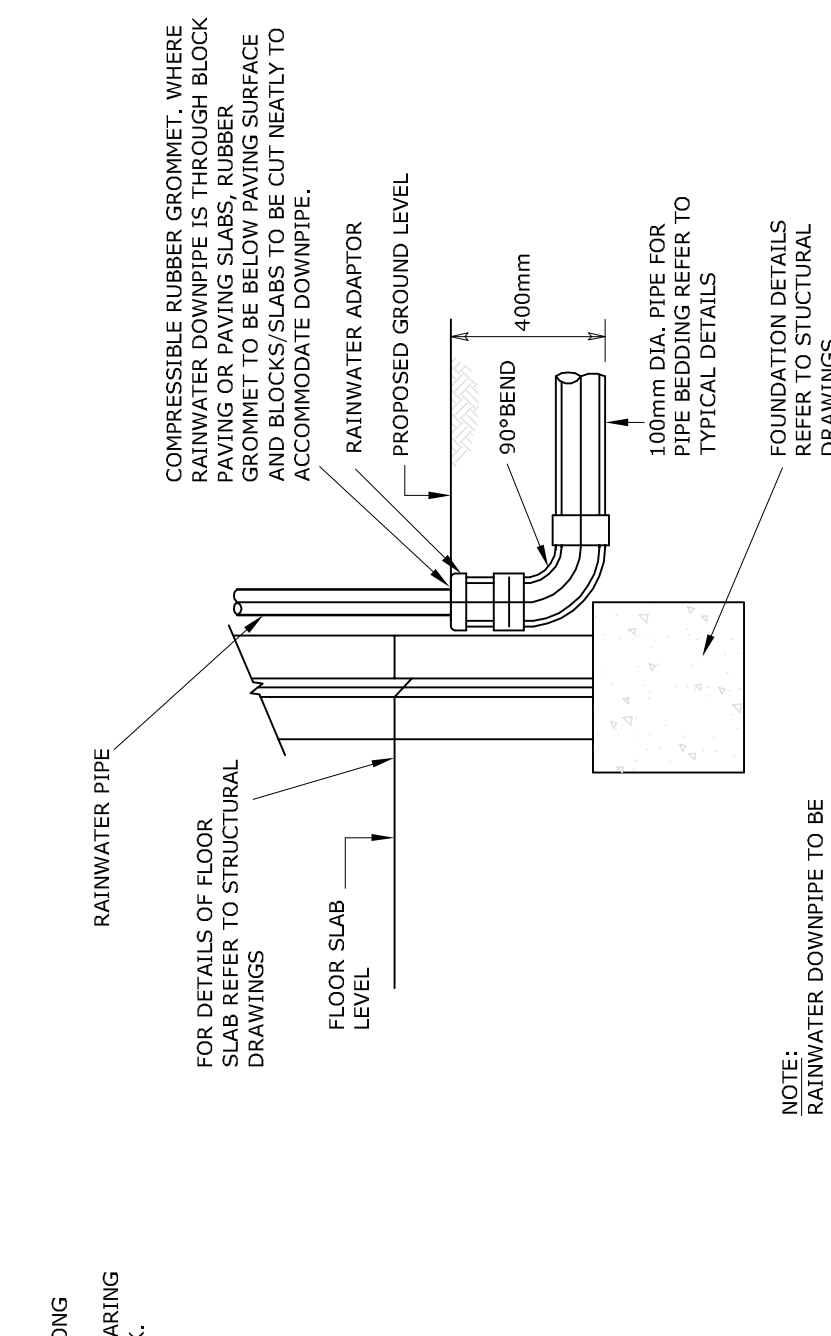
DETAIL OF MOVEMENT JOINT FOR PIPES WITH CONCRETE BED AND SURROUND

(TO BE PROVIDED AT ALL PIPE JOINTS)



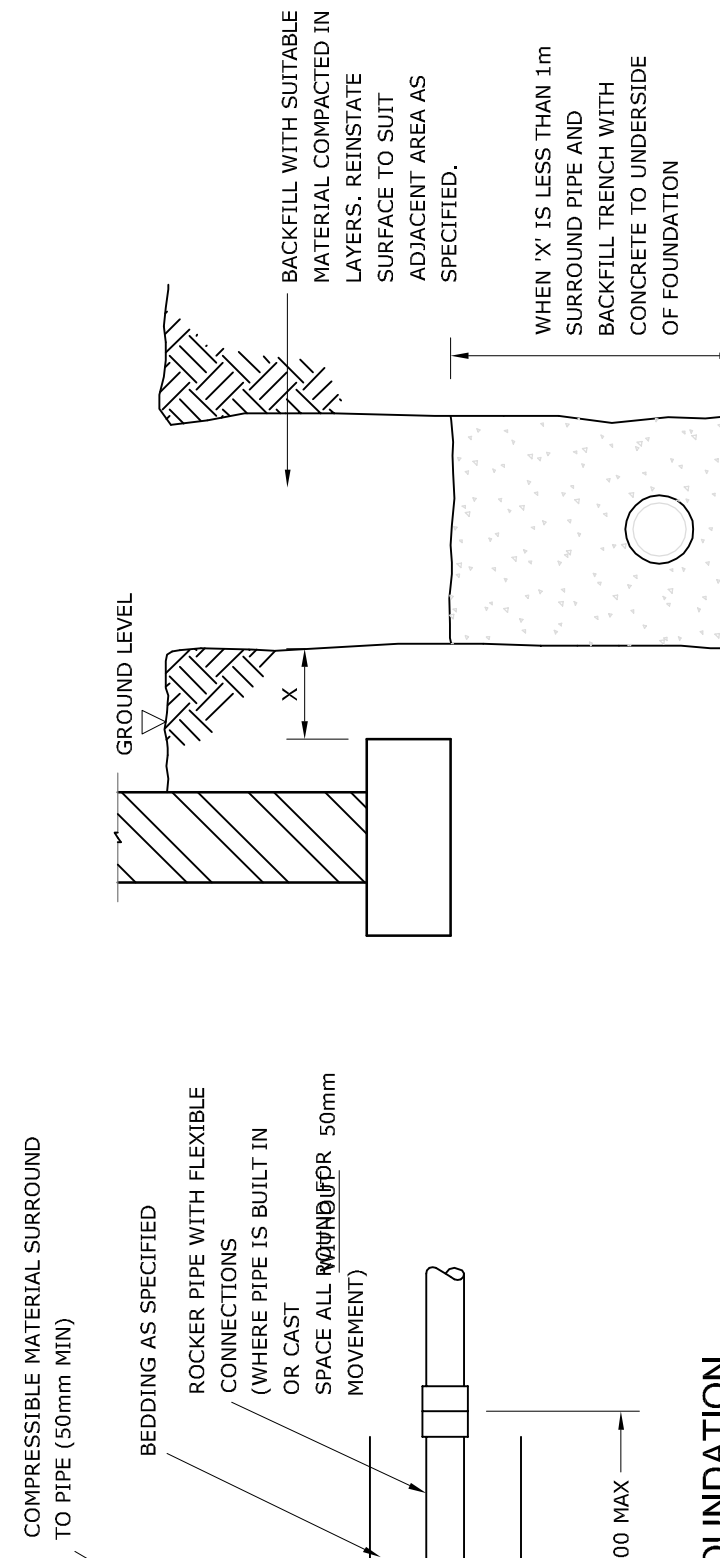
TRAPPED YARD GULLY TO DRIVES, FOOTPATHS & BINSTORE

PRIVATE ROAD GULLY POT DETAIL



NOTE: WATER DOWNPIPE TO BE REMOVABLE FOR RODDING PURPOSES

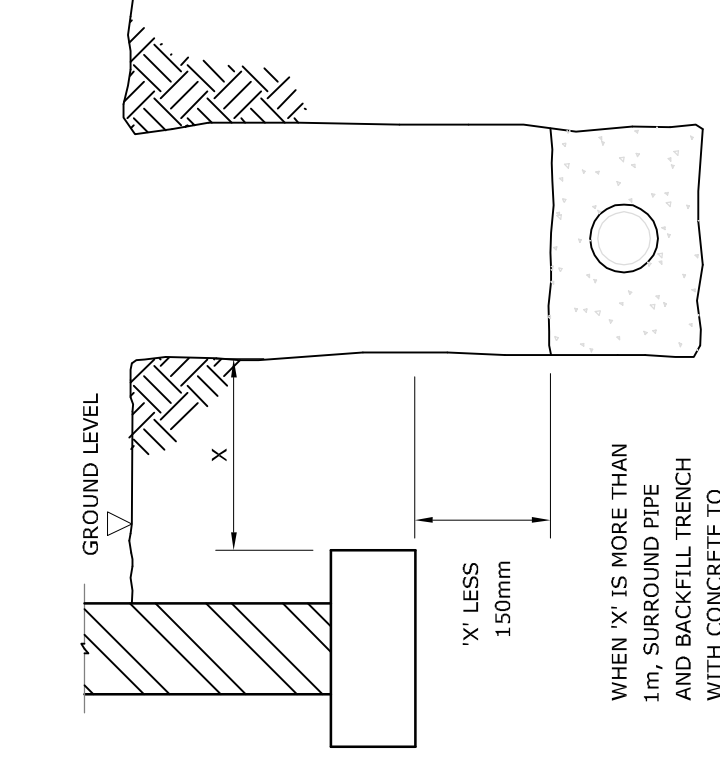
RAINWATER PIPE CONNECTION



NOTES:

- 1. FIND 4 CONCRETE SURROUND, Min. 150mm ABOVE PIPE CROWN & 150mm BELOW PIPE INVERT.

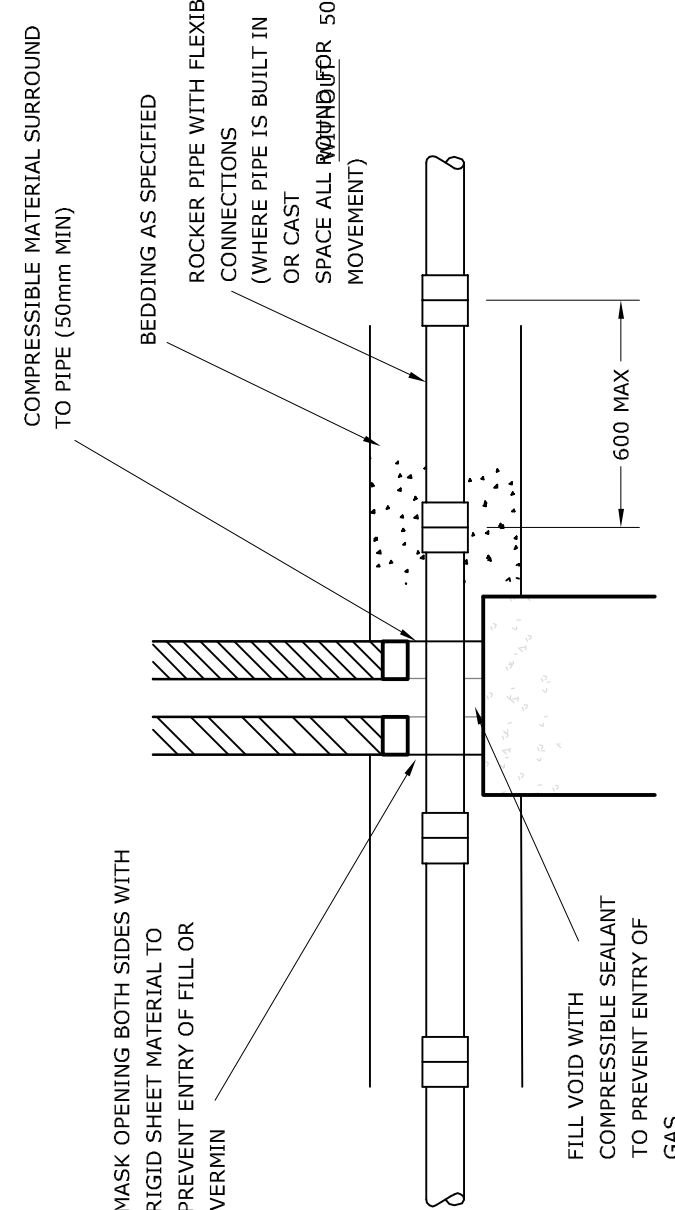
PIPE RUNS NEAR BUILDINGS & BELOW FOUNDATIONS



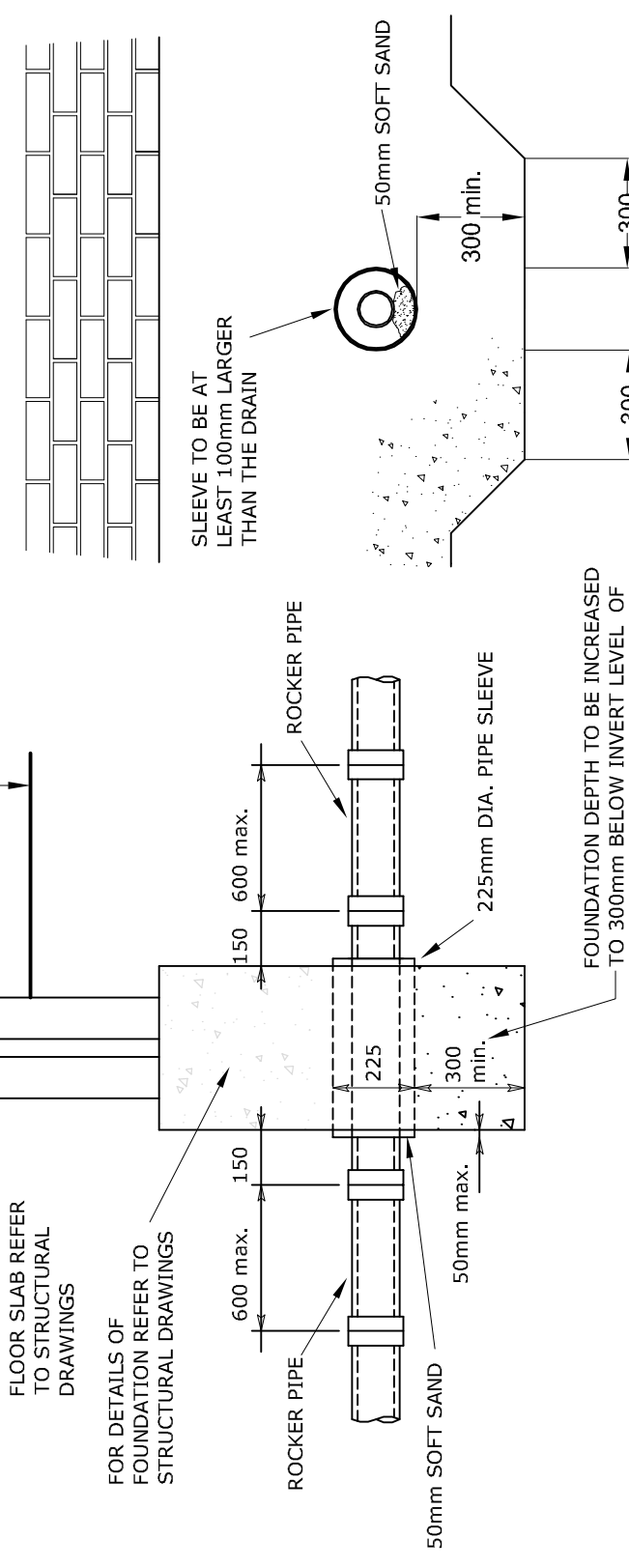
WHERE 'X' IS MORE THAN 1m

WHERE 'X' IS LESS THAN 1m

SOIL VENT PIPE CONNECTION



TYPICAL PIPE OVER FOUNDATION



DRAIN PENETRATION OF STRIP FOOTING

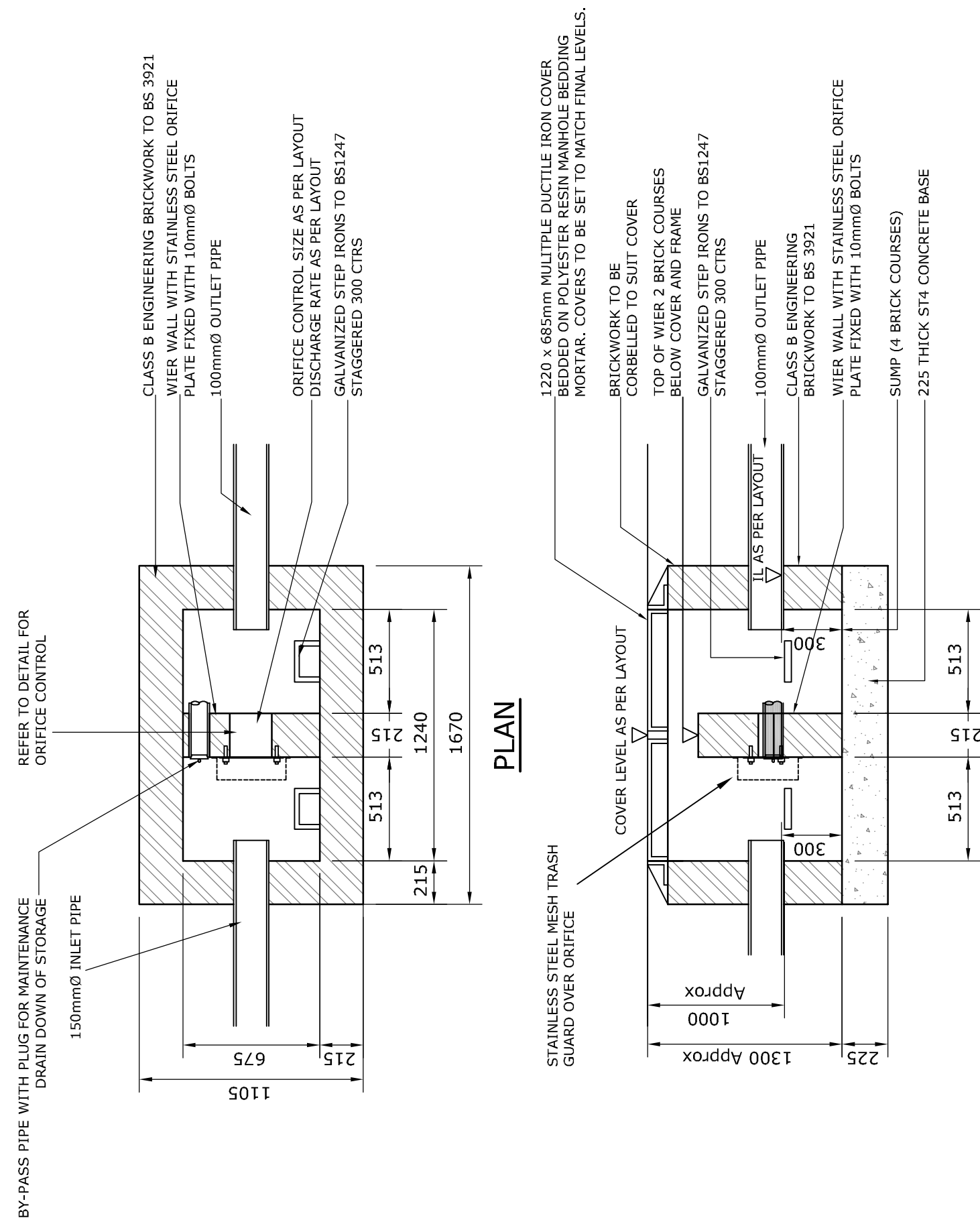
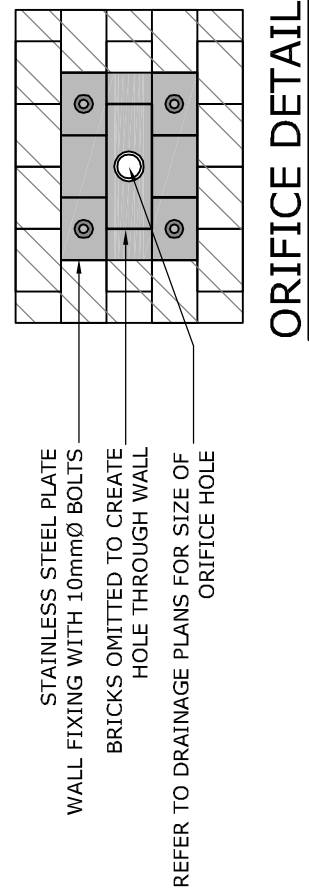
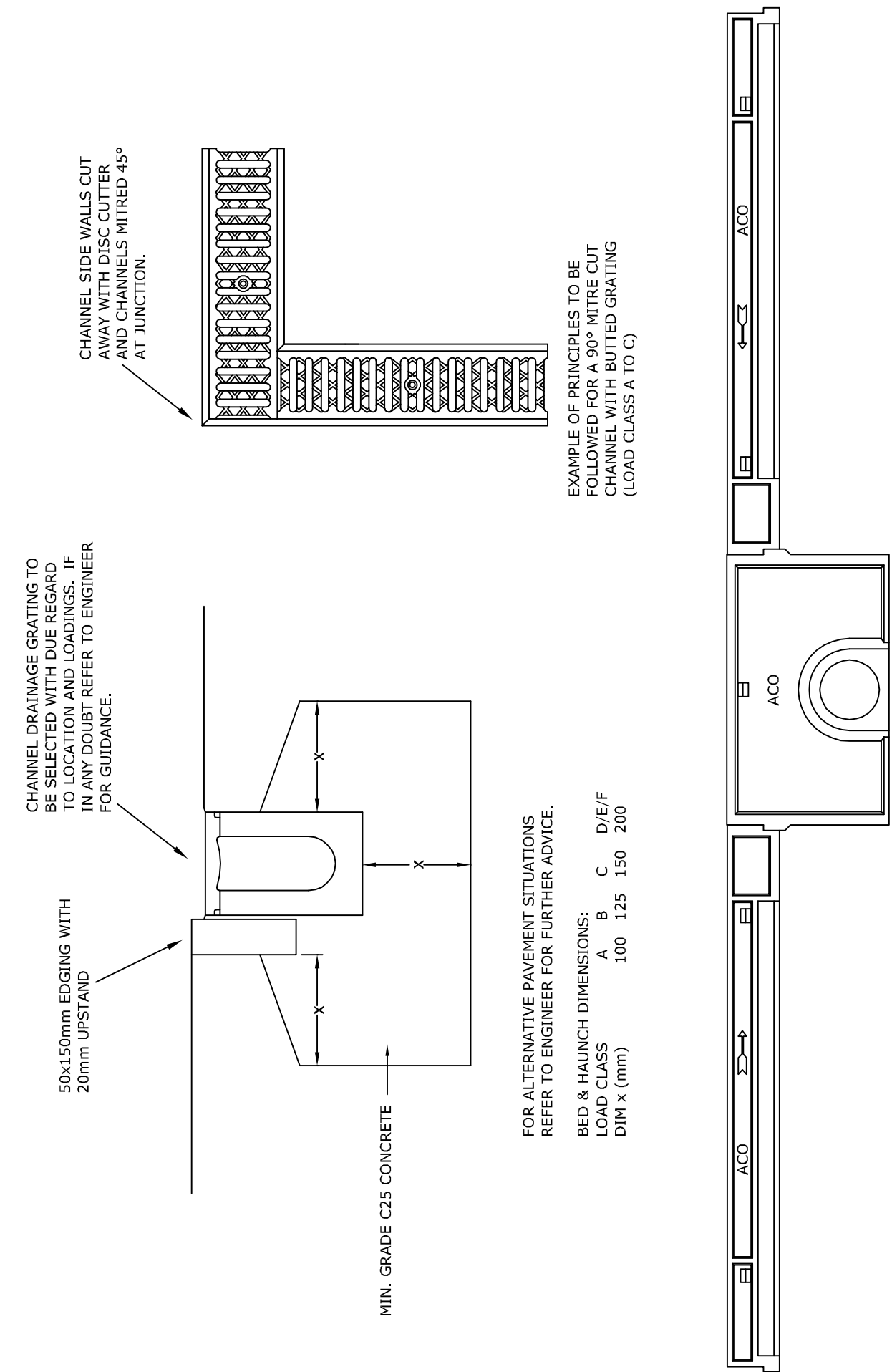
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ACO DRAIN INSTALLATION DETAIL

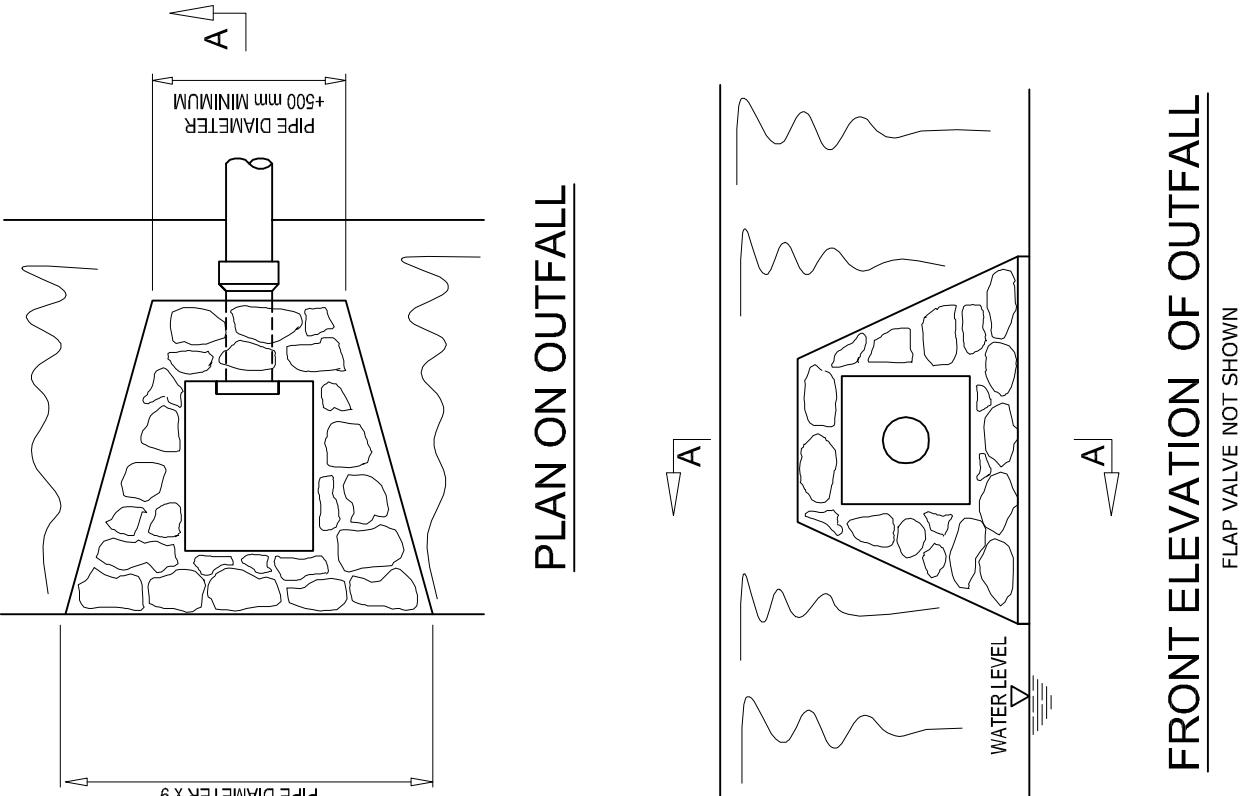
SUMP TO BE USED AT EACH ACO CONNECTION POINT. ADVICE AND DESIGN TO BE SOUGHT FROM ACO ON USE OF SUITABLE CHANNEL SECTION AND PRODUCT IN EACH CASE.



SECTION A - A

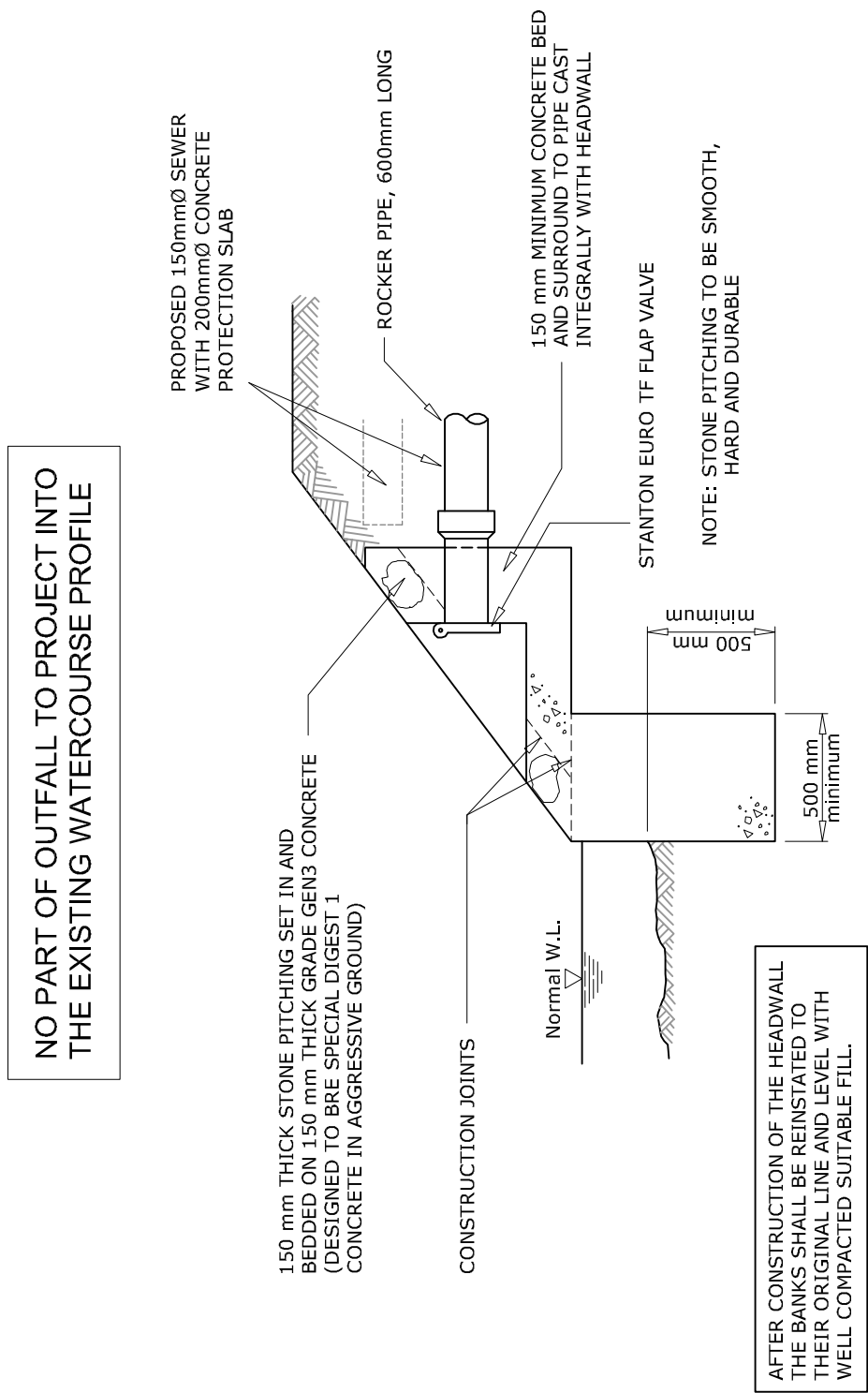
TYPICAL ORIFICE CHAMBER DETAIL

REFER TO DRAINAGE PLANS FOR SIZE OF ORIFICE

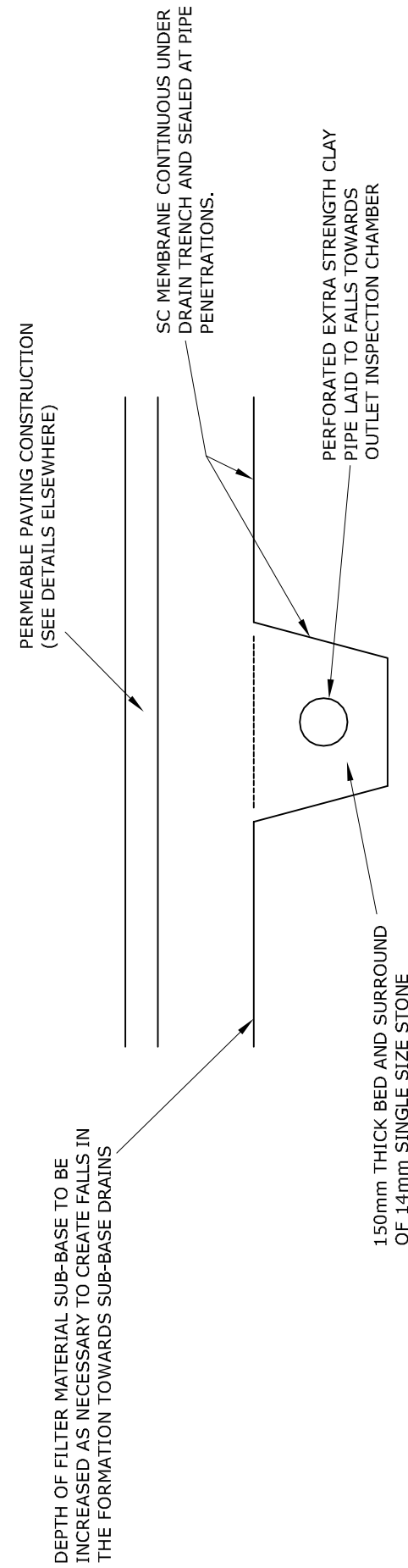


FRONT ELEVATION OF OUTFALL

FLAP VALVE NOT SHOWN



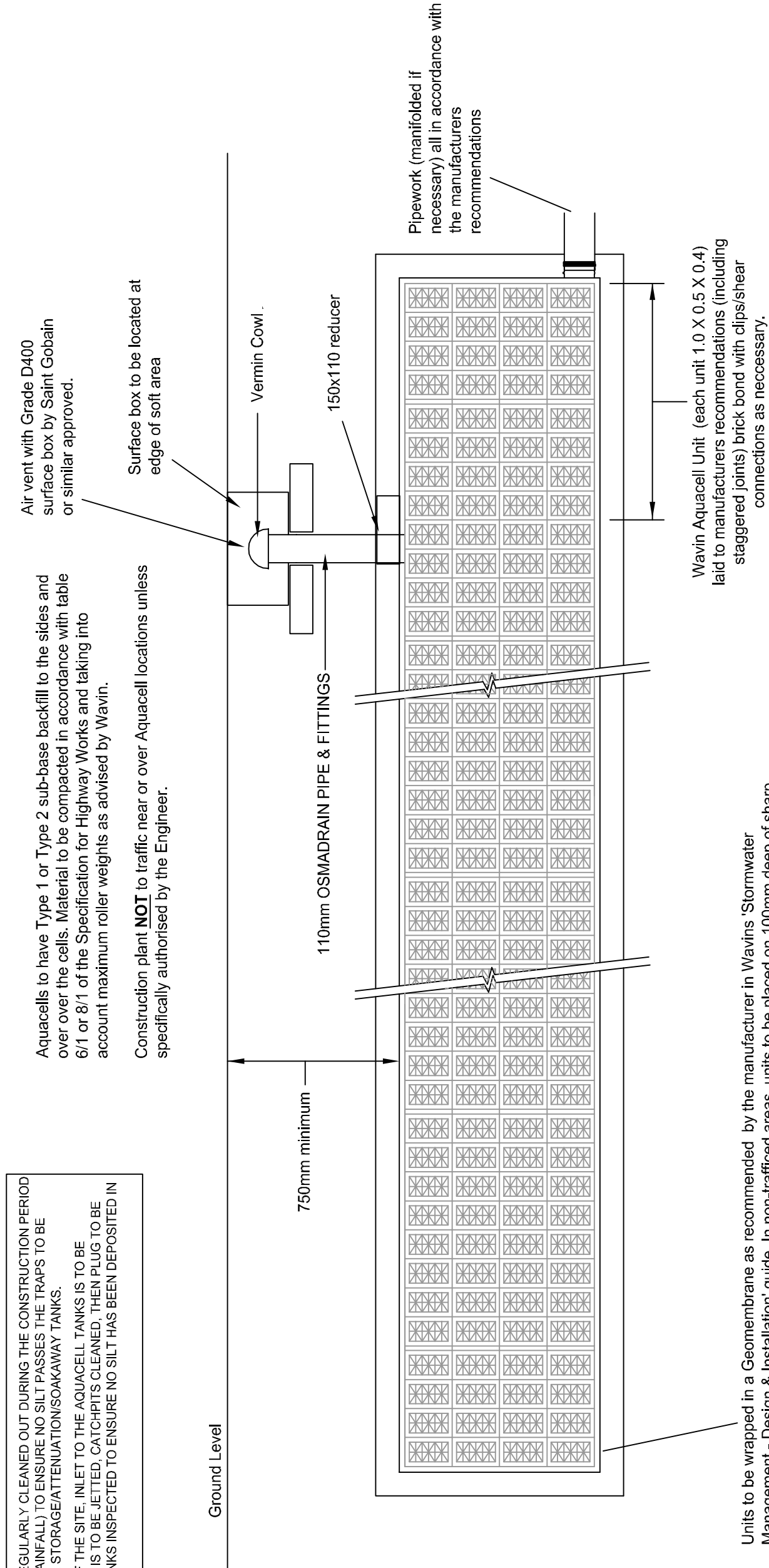
SECTION A - A



SUB-BASE DRAIN DETAIL

FOR USE BELOW SUB-BASE OF PERMEABLE PAVING

ALL CATCHPITS ARE TO BE REGULARLY CLEANED OUT DURING THE CONSTRUCTION PERIOD. DEPOSITED IN THE AQUACELL STORAGE/ATTENUATION/STOKAWAY TANKS. BEFORE FINAL HAND OVER OF THE SITE. INLET TO THE AQUACELL TANKS IS TO BE PLUGGED. ALL SW PIPEWORK IS TO BE JETTED, CATCHPIT IS CLEANED, THEN PLUG TO BE REMOVED AND AQUACELL TANKS INSPECTED TO ENSURE NO SILT HAS BEEN DEPOSITED IN THEM.



AQUACELL SURFACE WATER STORAGE DETAILS

(FOR TRAFFICKED AREAS - WITH STORAGE WRAPPING)

Pipework shown Indicatively only. See Drainage Layouts for locations and levels of pipework.

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Issue	Date	Description	Made	Checked

APPROVAL

MLM

Multidisciplinary Consulting

190 Eureka Park, Upper Pemberton, Ashford, Kent TN25 4AZ
Tel: 01233 610530 Fax: 01233 618299
Website: www.mlm.uk.com

Client

GROUP 1 AUTOMOTIVE

Project

CHANDLERS BMW WORTHING

Drawing Title

DRAINAGE CONSTRUCTION
DETAILS - SHEET 3 OF 3

Drawn/Design	Checked	Approved	Date
kwf			July 2014
Scales	Drawing No.		Rev
N.T.S. @ A1 N.T.S. @ A3	615823/008		

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Drawing Status:

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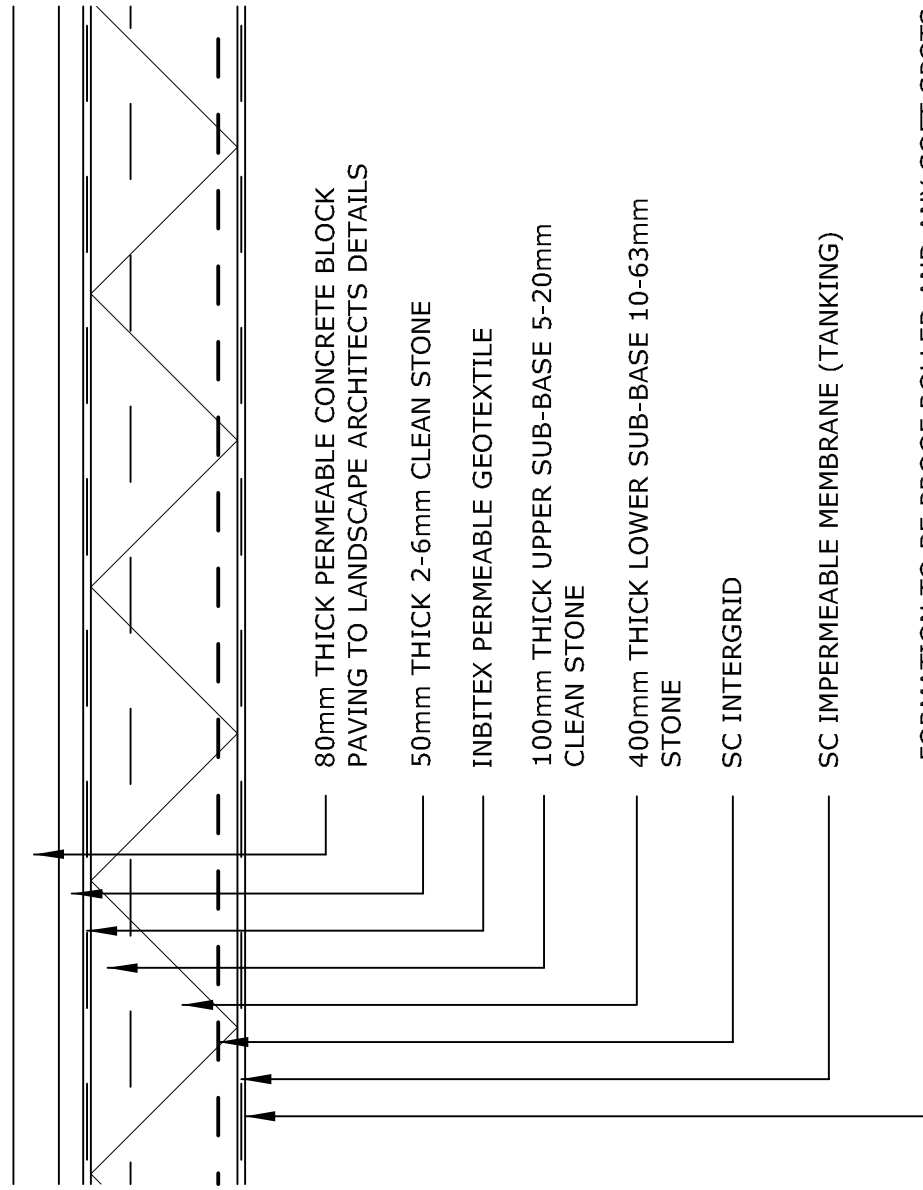
Project

CHANDLERS BMW WORTHING

Drawing Title

EXTERNAL WORKS
CONSTRUCTION DETAILS
SHEET 1 OF 2

Drawn/Design	Checked	Approved	Date	Rev
kwl			July 2014	
Scales	Drawing No.			
N.T.S. @ A1	615823/009			
N.T.S. @ A3				



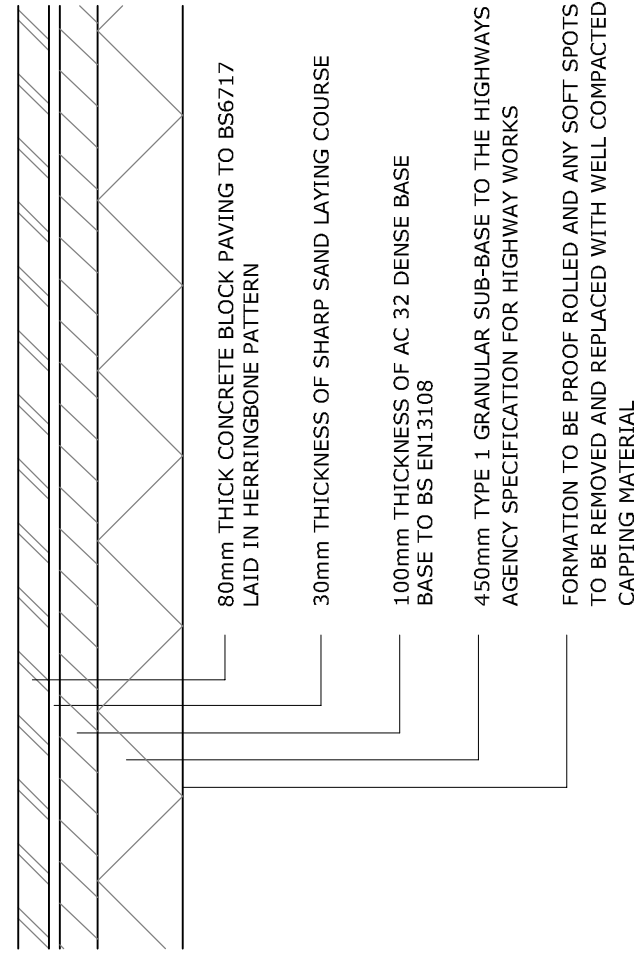
FORMATION TO BE PROOF ROLLED AND ANY SOFT SPOTS TO BE REMOVED AND REPLACED WITH WELL COMPACTED SUB-BASE MATERIAL

POROUS BLOCK PAVING CAR PARKING

CONSTRUCTION

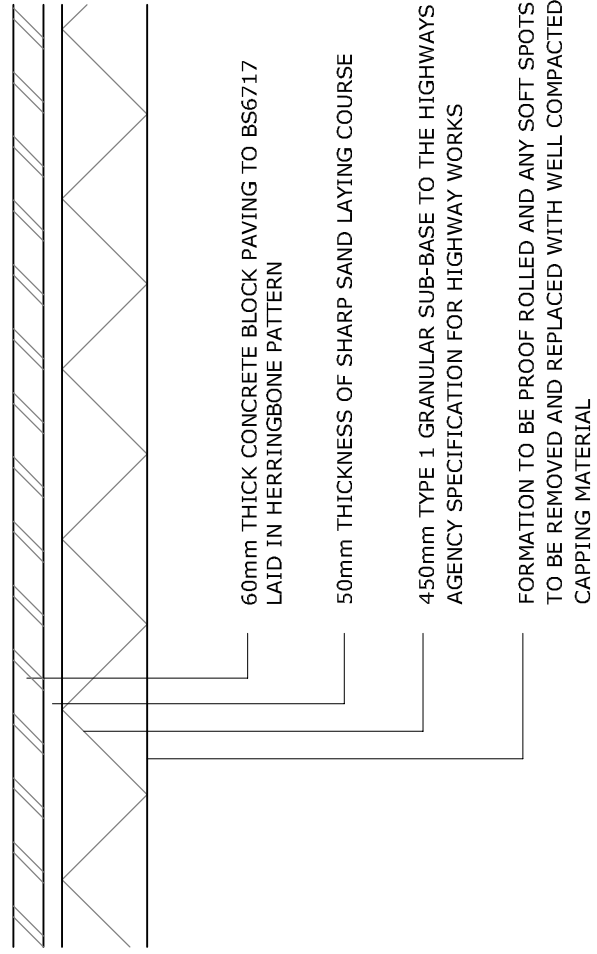
DETAILS SHOWN ARE BASED ON STORM WATER SOURCE CONTROL SYSTEM BY FORMPAVE LIMITED. REFER TO FORMPAVE FOR DETAILED DESIGN, FULL SPECIFICATION AND LAYING REQUIREMENTS. THE POROUS PAVEMENT MUST BE PROTECTED FROM SILT, SAND AND OTHER FINE MATERIALS DURING CONSTRUCTION. THE FINAL SURFACE MUST NOT BE SAND JOINTED.

SUITABLE FOR USE BY OCCASIONAL STRAY HGV



TYPICAL SECTION THROUGH BLOCK PAVED

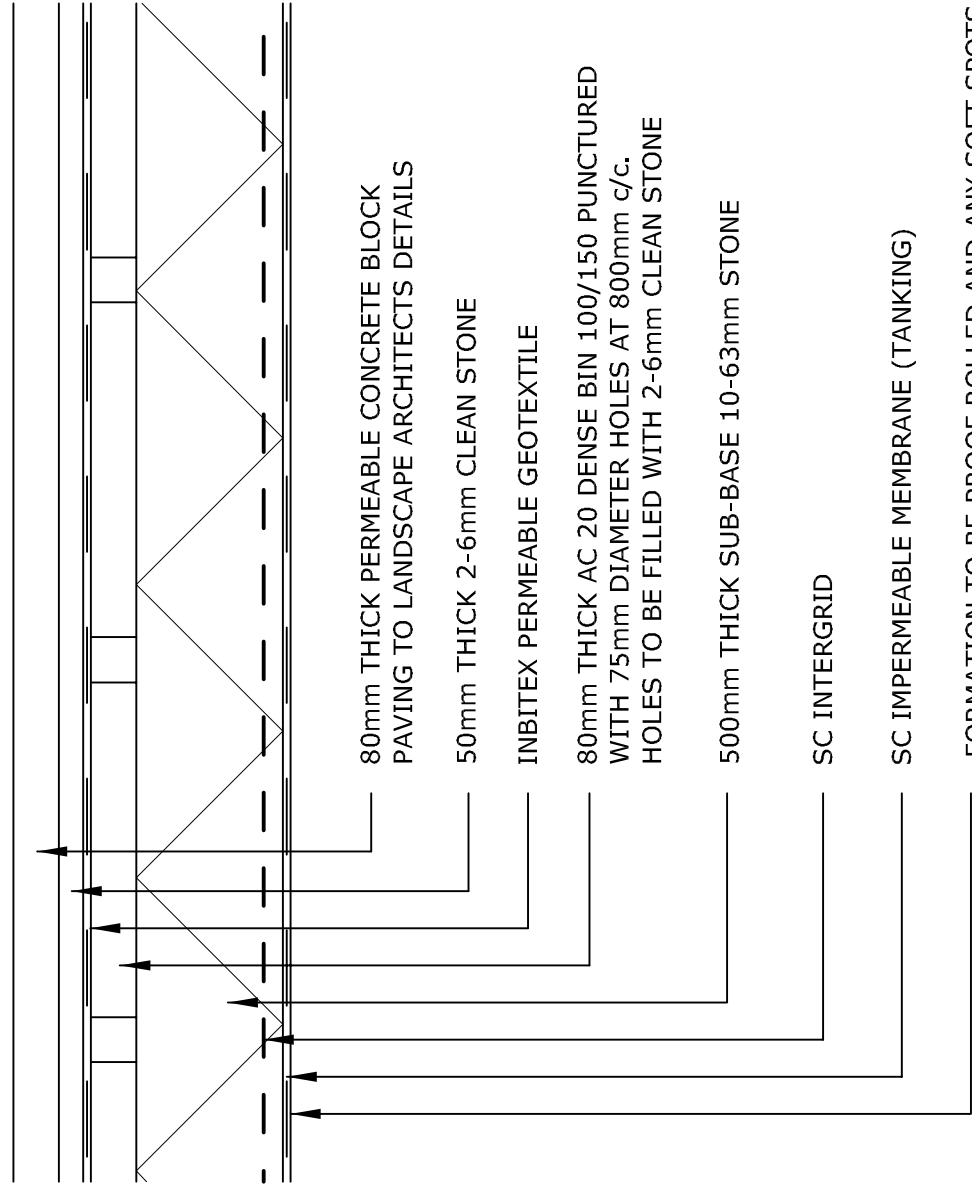
CARRIAGEWAY CONSTRUCTION



TYPICAL SECTION THROUGH BLOCK PAVED

PARKING AREA CONSTRUCTION

(ONLY ACCESSIBLE BY OCCASIONAL STRAY HGV'S)

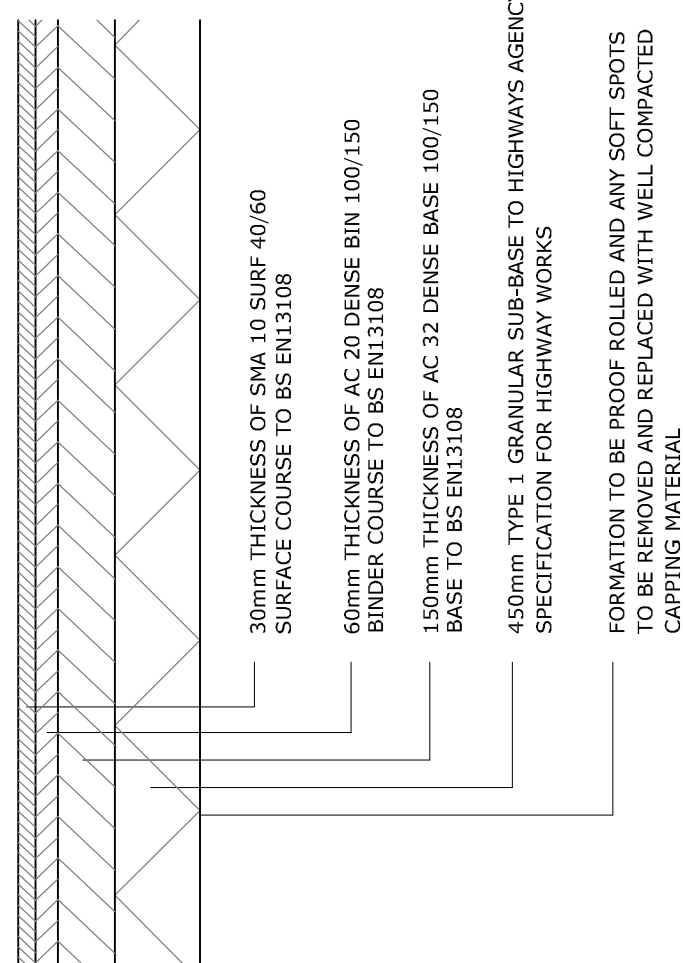


FORMATION TO BE PROOF ROLLED AND ANY SOFT SPOTS TO BE REMOVED AND REPLACED WITH WELL COMPACTED SUB-BASE MATERIAL

POROUS BLOCK PAVING CONSTRUCTION

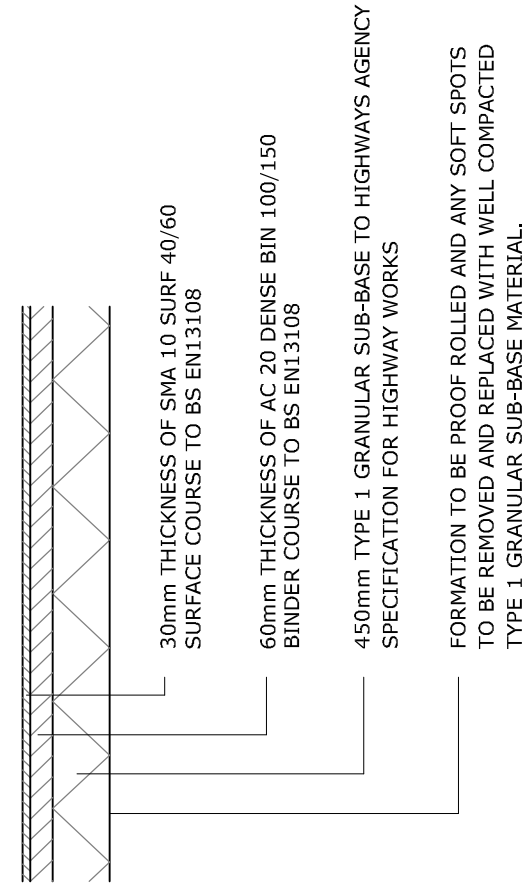
AREAS SUBJECT TO OCCASIONAL HGV TRAFFIC

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TYPICAL SECTION THROUGH BITUMINOUS

ROAD CONSTRUCTION



BITUMINOUS PARKING AREA CONSTRUCTION

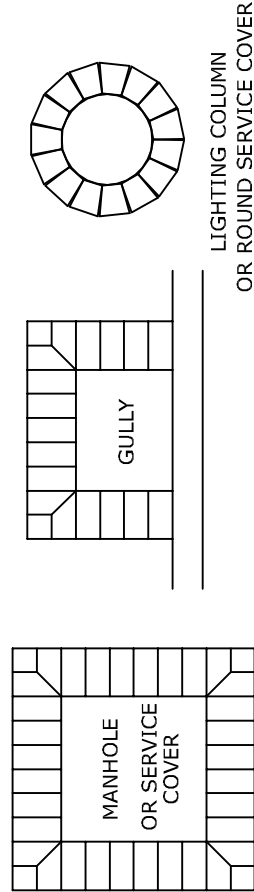
(ONLY ACCESSIBLE BY OCCASIONAL STRAY HGV'S)

CONSTRUCTION MAKEUPS ARE BASED ON A CBR VALUE OF 2% AND ARE SUBJECT TO CONFIRMATION FOLLOWING ON SITE TESTING BY THE CONTRACTOR.

NOTE: THE FORMATION OF ALL EXTERNAL PAVING TO BE PROOF ROLLED AND ANY SOFT SPOTS AND MAKE GROUND TO BE REMOVED AND REPLACED WITH WELL COMPACTED TYPE 1 GRANULAR SUB-BASE MATERIAL. (REFER TO ENGINEER FOR ALTERNATIVE SOLUTION IF LARGE AREAS ARE ENCOUNTERED).

CLAY/SILT SUB-GRADE BENEATH AREAS TO BE SUBJECTED TO VEHICULAR TRAFFIC SHALL BE COVERED WITH TERRAM 1000 OR SIMILAR GEOTEXTILE

BLOCKWORK NOTE
TREATMENT AND JOINTING MATERIALS TO BE USED AROUND MANHOLE COVERS AND ROAD GULLIES SHALL BE AGREED ON SITE WITH THE ARCHITECT.
(IDEALLY A SINGLE COURSE OF SOLDIER BLOCKS IS REQUIRED AROUND MANHOLE COVERS AND ROAD GULLIES. WEBS SHALL BE COVERED WITH JOINTING MATERIAL TO PREVENT WEBS SETTING WITH OR AT 90° TO THE RUN OF BLOCKWORK.)



NOTE: THESE DETAILS ARE FOR USE IN PRIVATE AREAS ONLY
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL OTHER EXTERNAL WORKS DETAILS

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6. PROTECTION FOR DISEASE REQUIRED FOR WORKS WITHIN EXISTING SEWERS.

THE ABOVE NOTES REFER SPECIFICALLY TO THE INFORMATION SHOWN ON THIS DRAWING.

REFER TO THE HEALTH AND SAFETY PLAN FOR FURTHER INFORMATION.

Issue	Date	Description	Made	Checked

Drawing Status: **APPROVAL**

APPROVAL



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Client

GROUP 1 AUTOMOTIVE

Project

CHANDLERS BMW WORTHING

Drawing Title

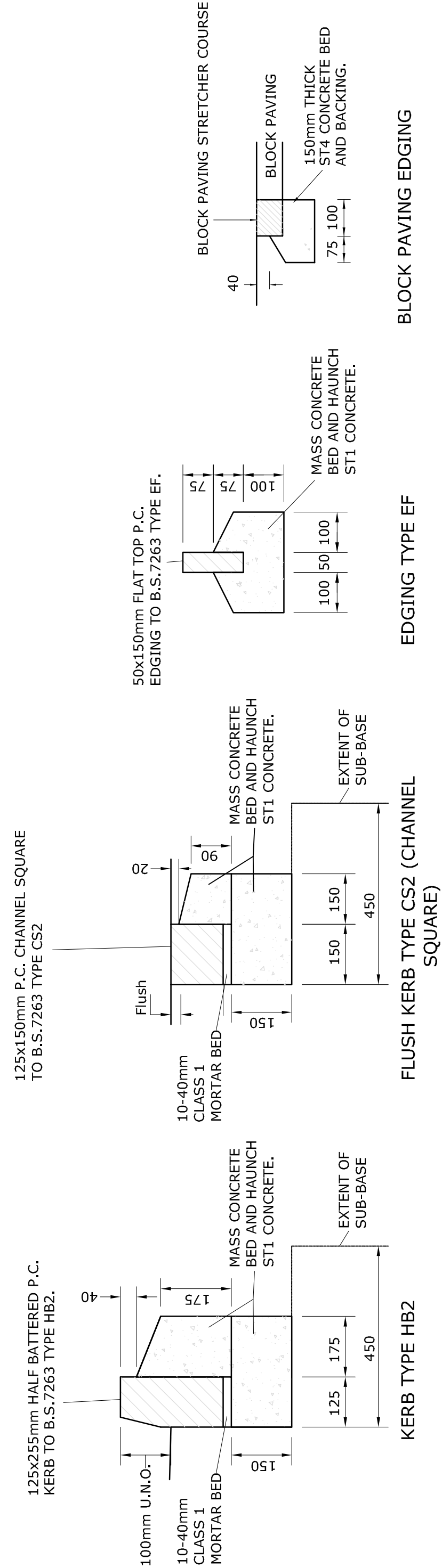
EXTERNAL WORKS
CONSTRUCTION DETAILS
SHEET 2 OF 2

Drawn/Design	Checked	Approved	Date
Kwl	...	...	July 2014
Drawing No. 615823/010			
Scales N.T.S. @ A1 N.T.S. @ A3			
Rev			

NOTE: THESE DETAILS ARE FOR USE IN PRIVATE AREAS ONLY
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR ALL OTHER EXTERNAL WORKS DETAILS

CONSTRUCTION MAKEUPS ARE BASED ON A CBR VALUE OF 2% AND ARE SUBJECT TO CONFIRMATION FOLLOWING ON SITE TESTING BY THE CONTRACTOR.

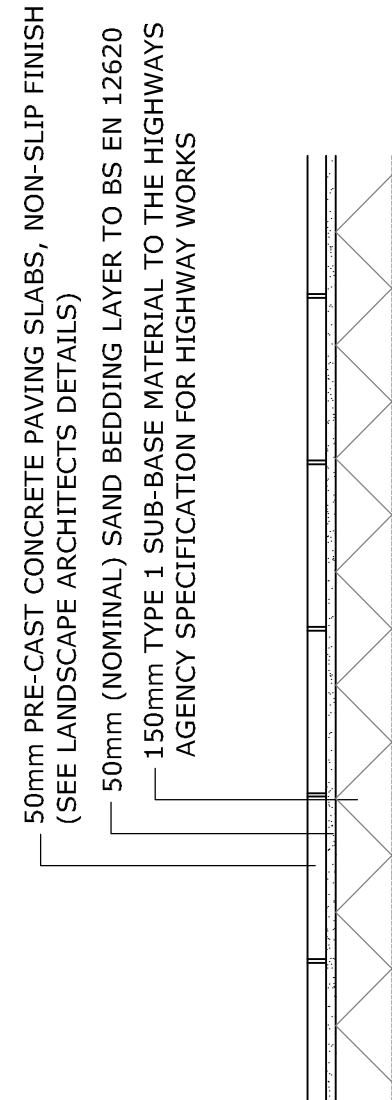
NOTE: THE FORMATION OF ALL EXTERNAL PAVING TO BE PROOF ROLLED AND ANY SOFT SPOTS AND MAKE GROUND TO BE REMOVED AND REPLACED WITH WELL COMPACTED TYPE 1 GRANULAR SUB-BASE MATERIAL. (REFER TO ENGINEER FOR ALTERNATIVE SOLUTION IF LARGE AREAS ARE ENCOUNTERED).



**NOTE: FULL HEIGHT KERBING ONLY
TO BE USED WHERE SHOWN ON
THE PLANS AS A WATER CHECK**

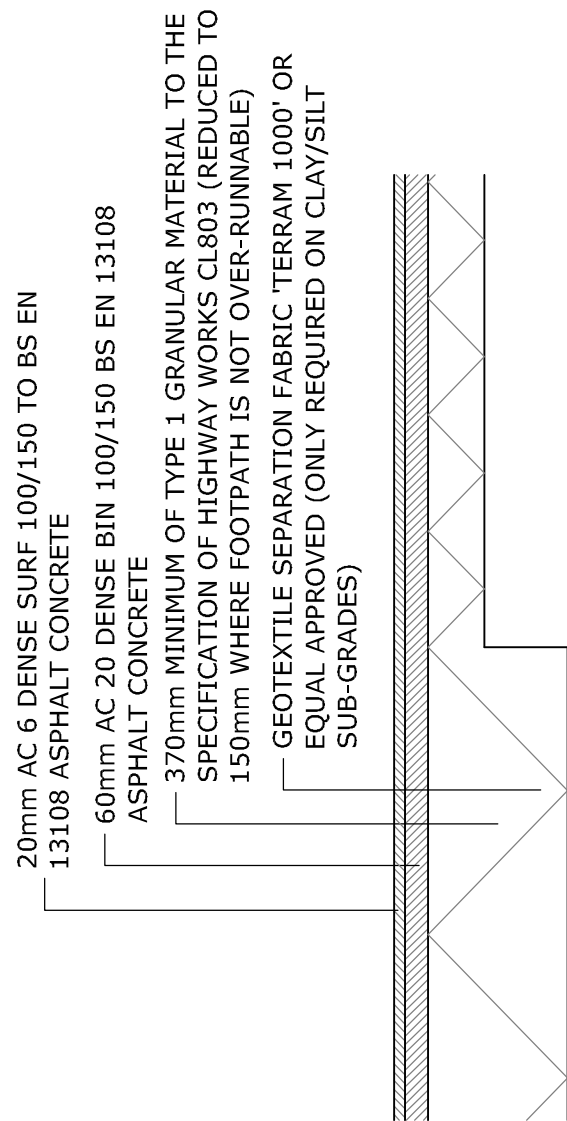
NOTE: JUNCTION BETWEEN KERBING TYPES TO BE MADE USING PURPOSE MADE TRANSITION KERBS TO BS 7263

KERB DETAILS

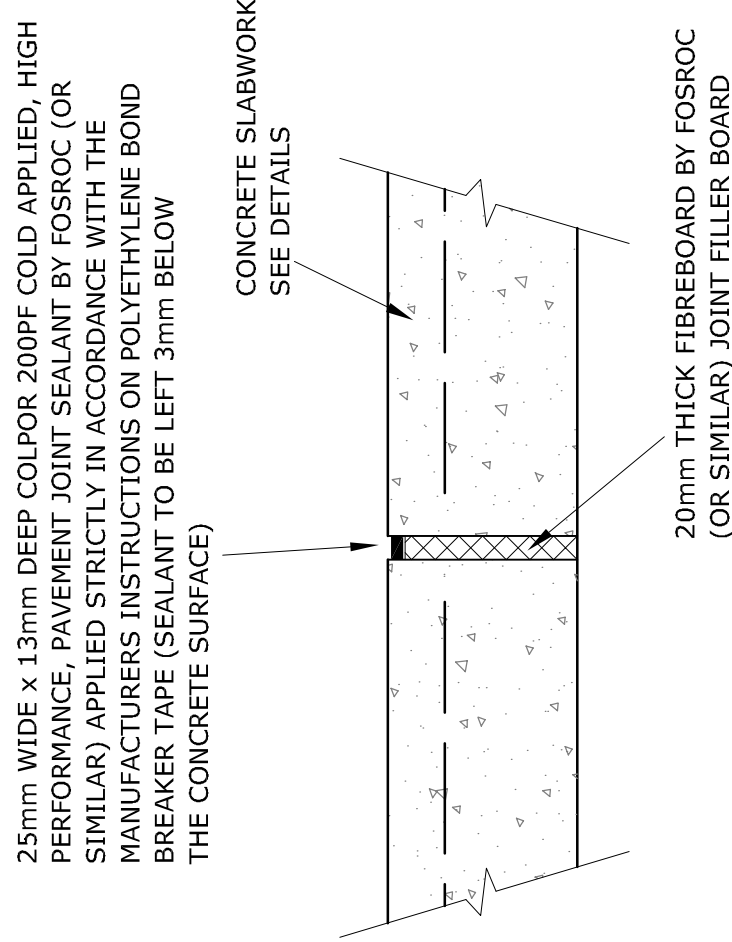


ANY PAVING CUT TO EXCEPT DRAINAGE COVERS SHALL BE MADE GOOD WITH COLOURED CONCRETE TO MATCH PAVING SLABS.

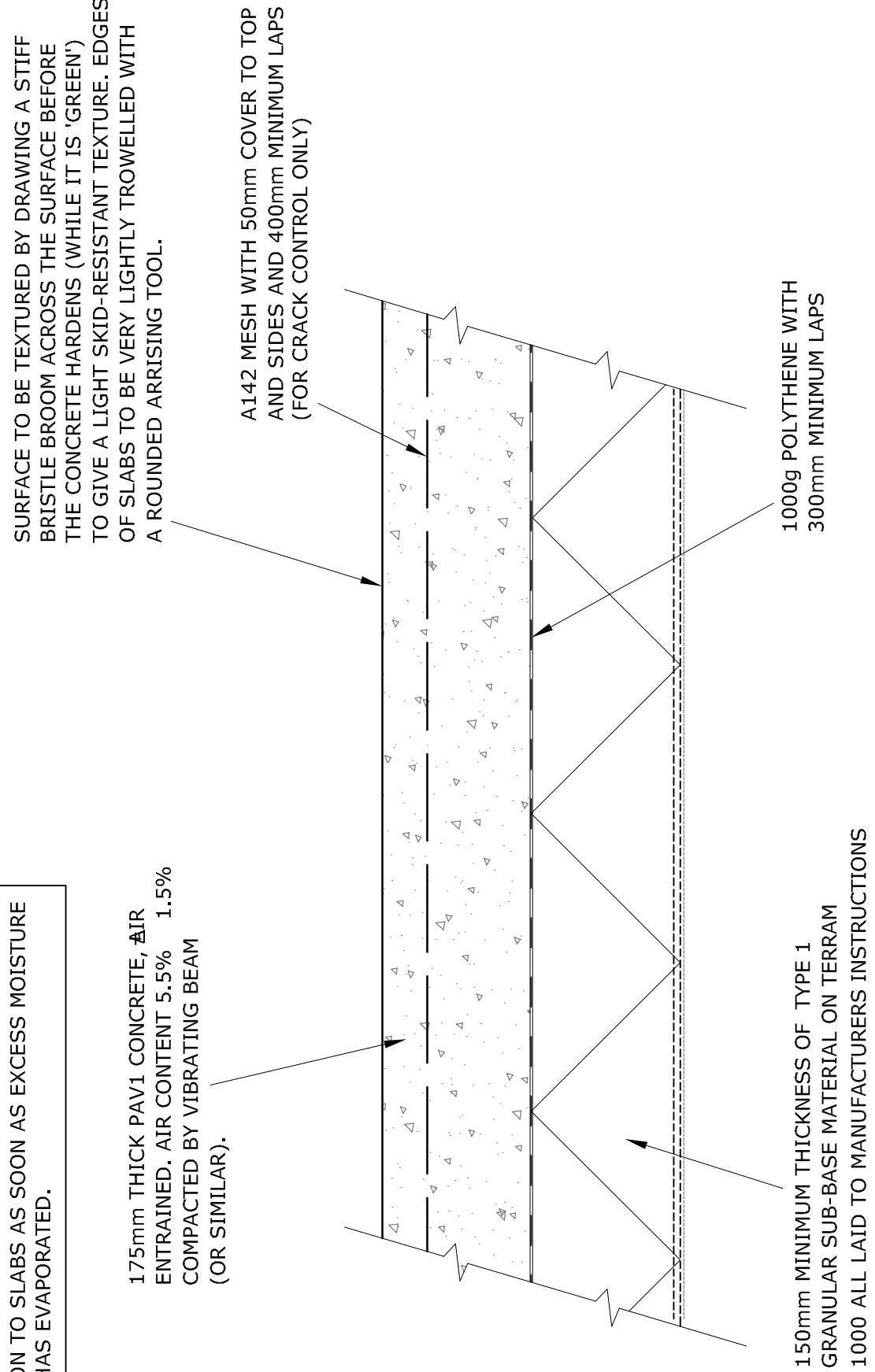
**TYPICAL PRE-CAST CONCRETE FLAG PAVING CONSTRUCTION
(FOOT TRAFFIC ONLY)**



BITUMINOUS FOOTPATH CONSTRUCTION



CONCRETE SLABWORK CONSTRUCTION JOINT



TYPICAL SECTION THROUGH CONCRETE SLABWORK