

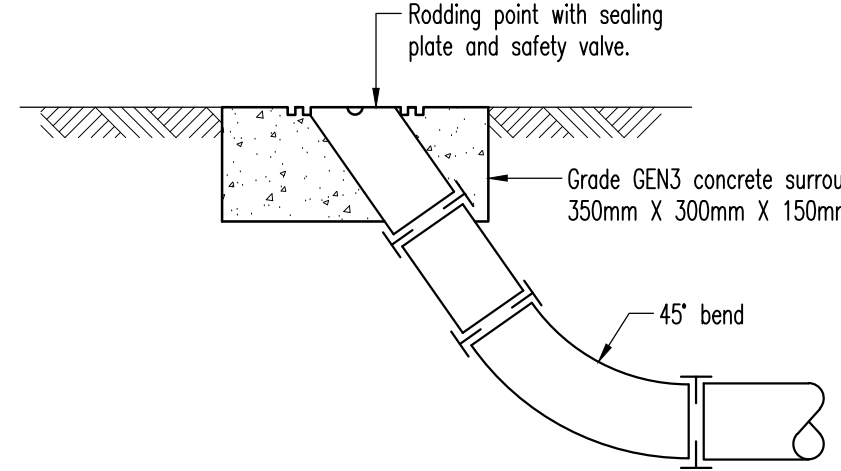
THE DEVELOPER HAS VETTED AND CERTIFIED THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADAPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN 'SEWERS FOR ADOPTION' (SFA) 7TH EDITION AND THE REQUIREMENTS OF DWR CYMRU WELSH WATER (DCCW) AS THE STATUTORY UNDERTAKER.

MANHOLE COVER & FRAME NOTES:

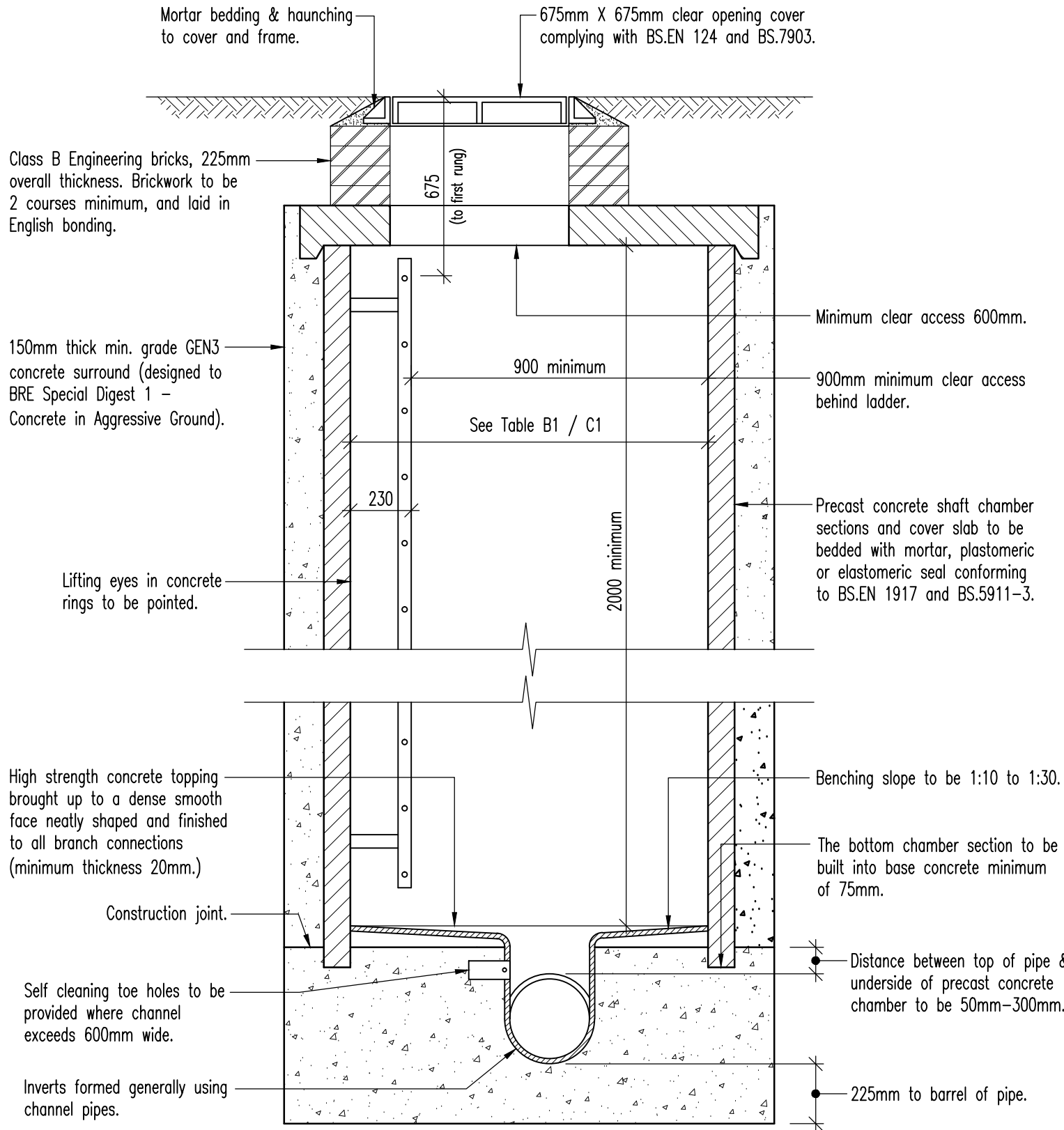
- MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS.EN.124. THEY SHALL BE OF A NON-ROCKING DESIGN WHICH DOES NOT RELY ON THE USE OF CUSHION INSERTS.
- CLASS D400 COVERS SHALL BE USED IN CARRIAGEWAY OF ROADS (INCLUDING PEDESTRIANISED STREETS), HARD SHOULDERS, AND PARKING AREAS USED BY ALL TYPES OF ROAD VEHICLES.
- CLASS B125 SHALL BE USED IN FOOTWAYS, PEDESTRIAN AREAS AND COMPARABLE LOCATIONS.
- ALL MANHOLES SHALL BE NON-VENTILATING TYPE AND SHALL HAVE CLOSED KEYWAYS.

TABLE B.1 / C.1	
Minimum manhole internal diameter	Largest outgoing pipe internal diameter
1200mm	< 375mm
1350mm	375mm – 450mm
1500mm	500mm – 700mm
1800mm	750mm – 900mm
Pipe dia. + 900mm	> 900mm

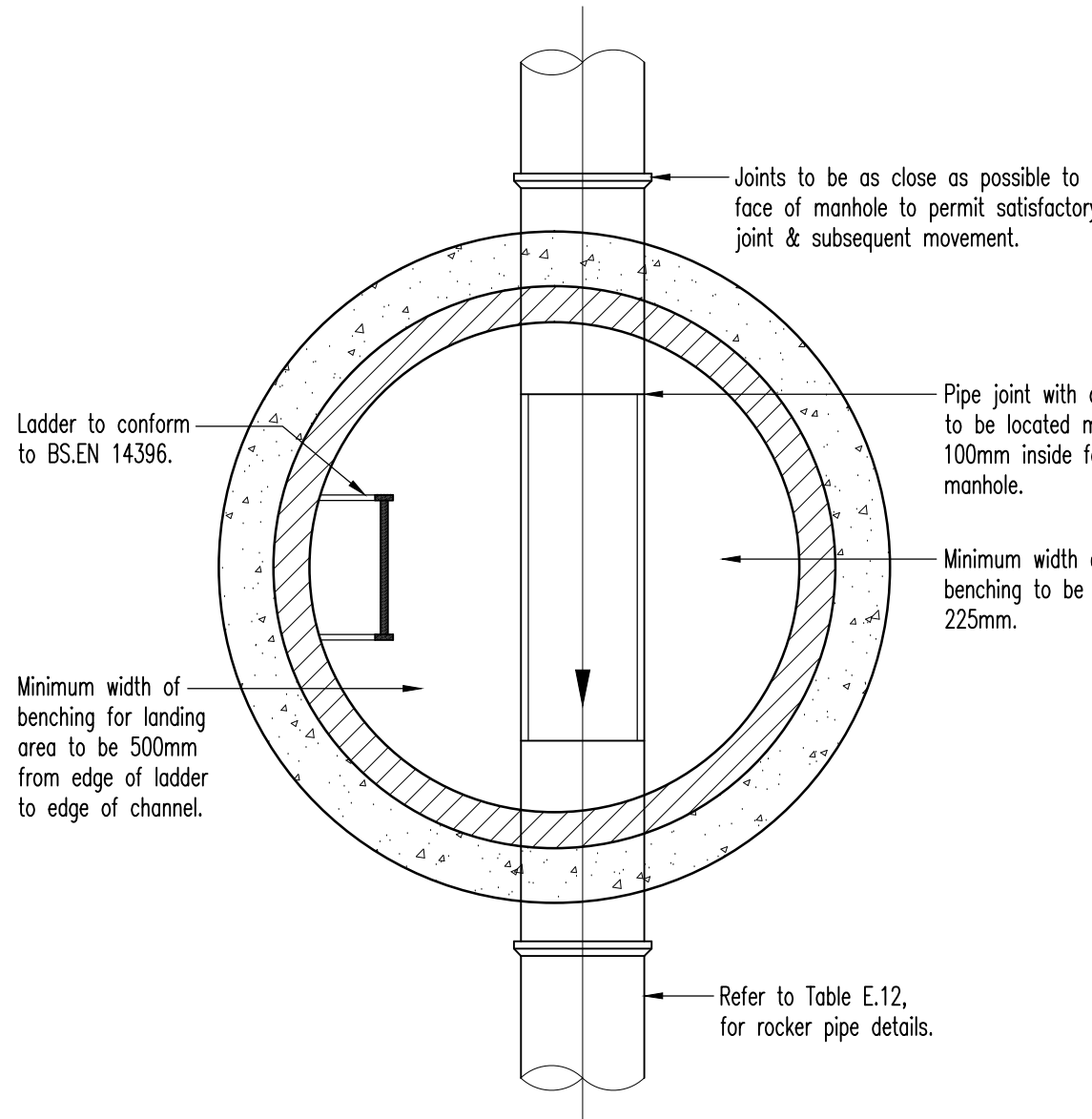
TABLE E.12	
Rocker pipe length	Pipe internal diameter
600mm	150mm – 600mm
1000mm	600mm – 750mm
1250mm	> 750mm



RODDING ACCESS POINT DETAIL



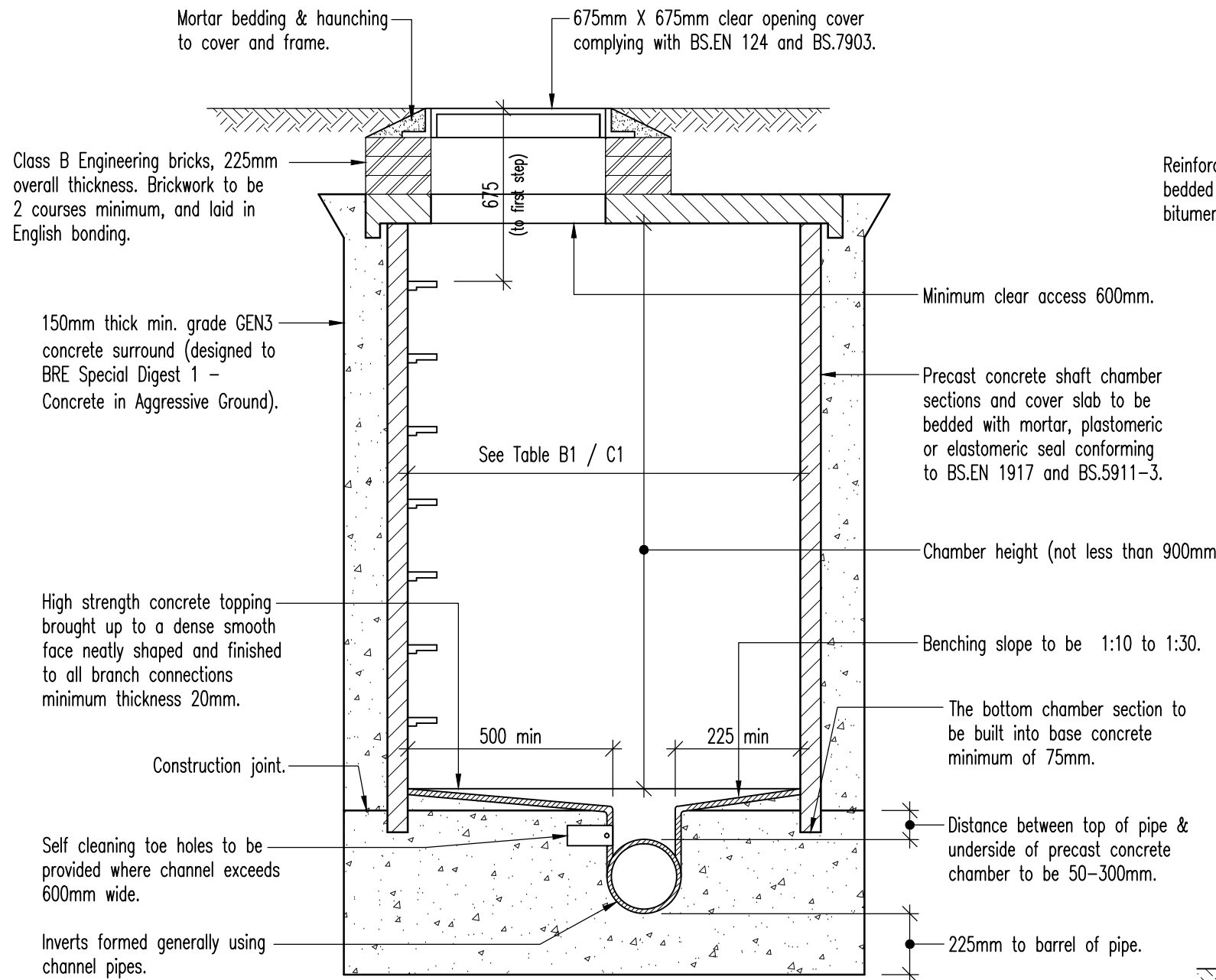
SECTIONAL ELEVATION



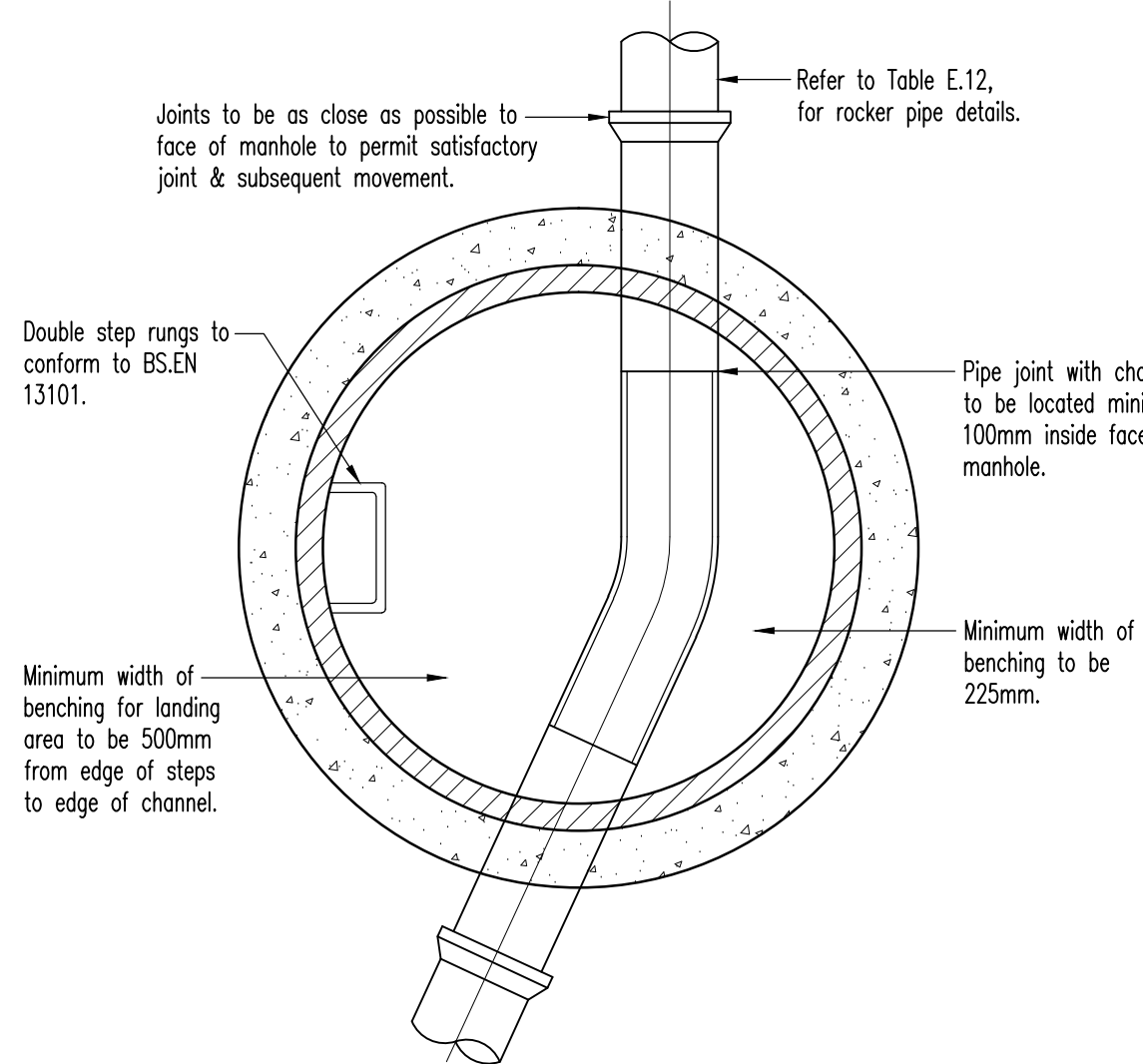
SECTIONAL PLAN

TYPICAL CONCRETE MANHOLE DETAIL (TYPE 1)

(DEPTH TO SOFFIT 3.0m TO 6.0m)



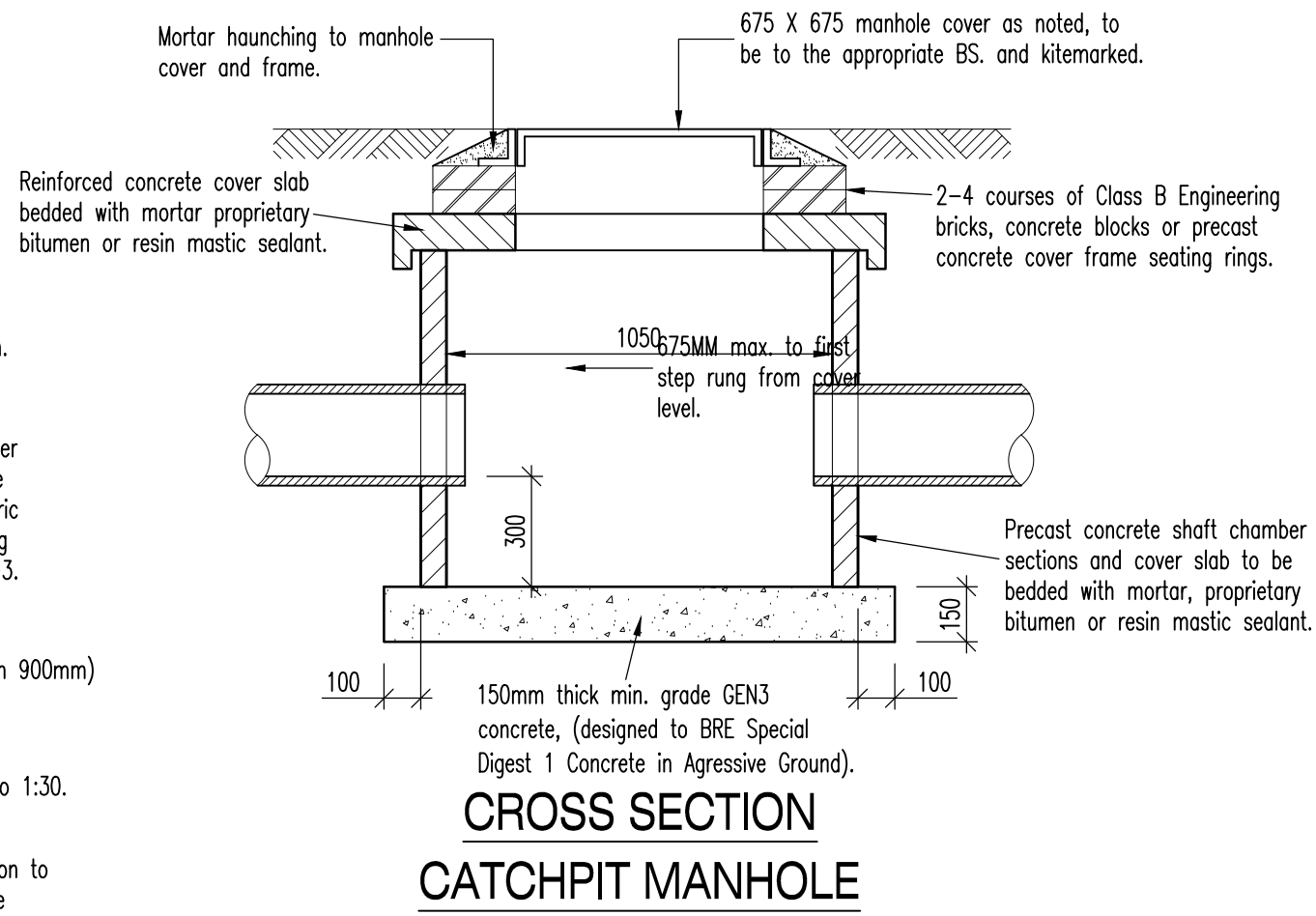
SECTIONAL ELEVATION



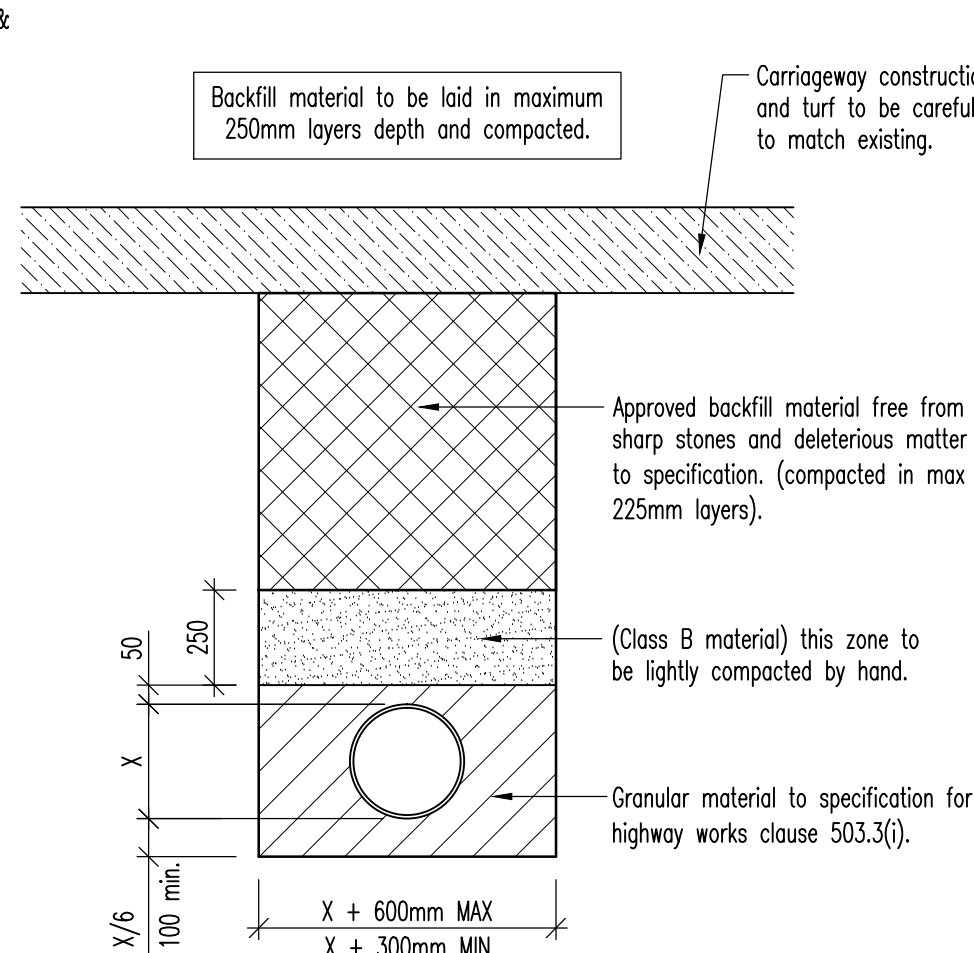
SECTIONAL PLAN

TYPICAL CONCRETE MANHOLE DETAIL (TYPE 2)

(DEPTH TO SOFFIT UP TO 3.0m)

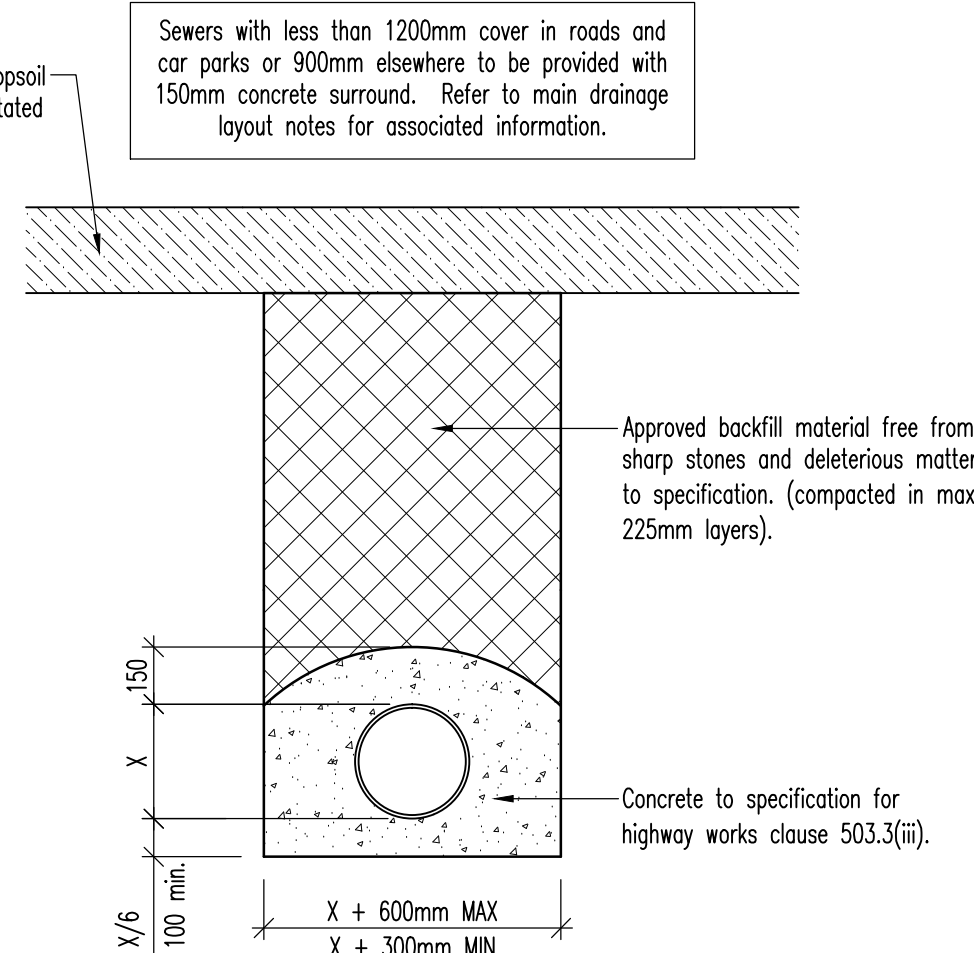


CROSS SECTION
CATCHPIT MANHOLE



TYPICAL PIPE BEDDING DETAIL

GRANULAR BED & SURROUND
(COVER > 1.2m TO CROWN UNDER ROADS & FOOTPATHS)
(COVER > 0.9m TO CROWN ELSEWHERE)

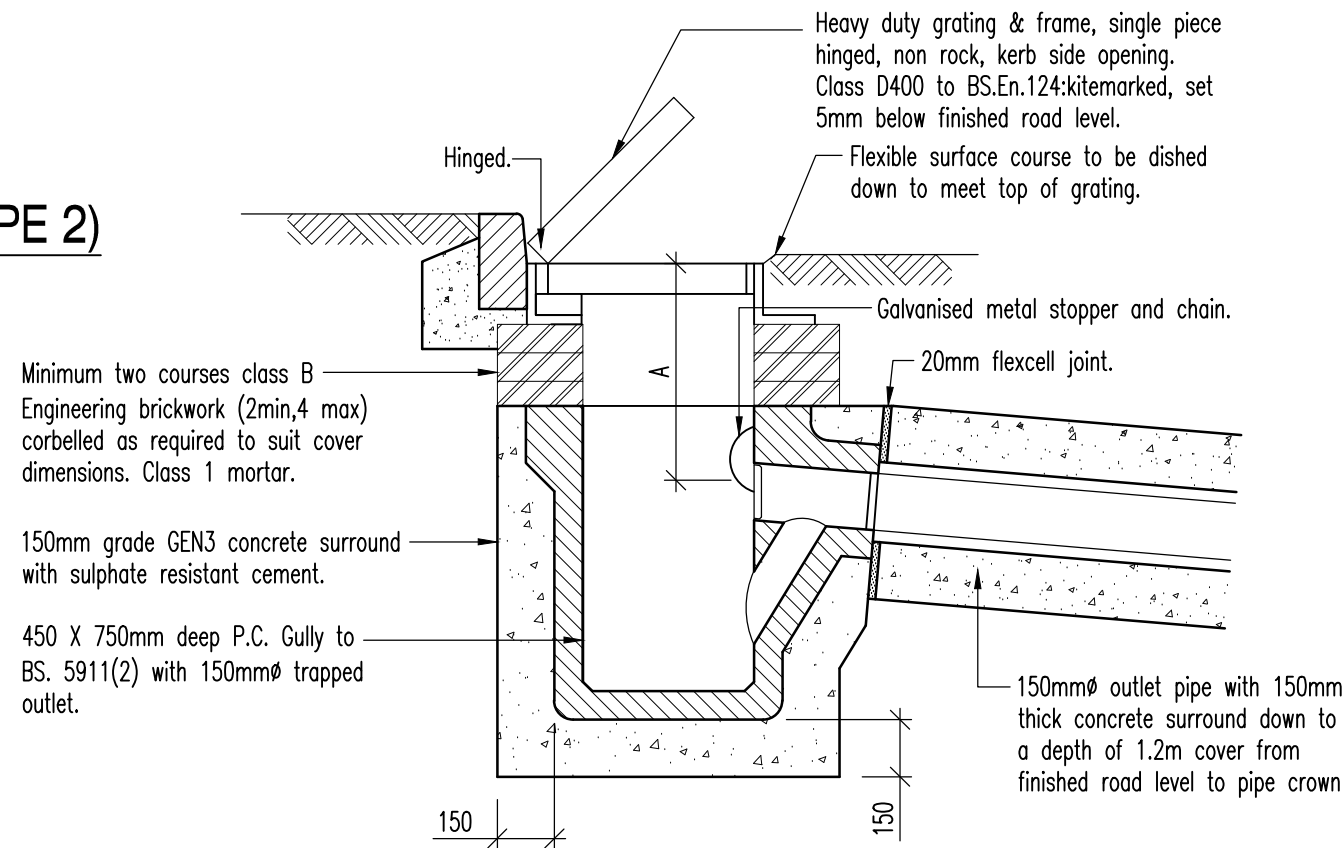


TYPICAL PIPE BEDDING DETAIL

CONCRETE ENCASED
(COVER < 1.2m TO CROWN UNDER ROADS & FOOTPATHS)
(COVER < 0.9m TO CROWN ELSEWHERE)

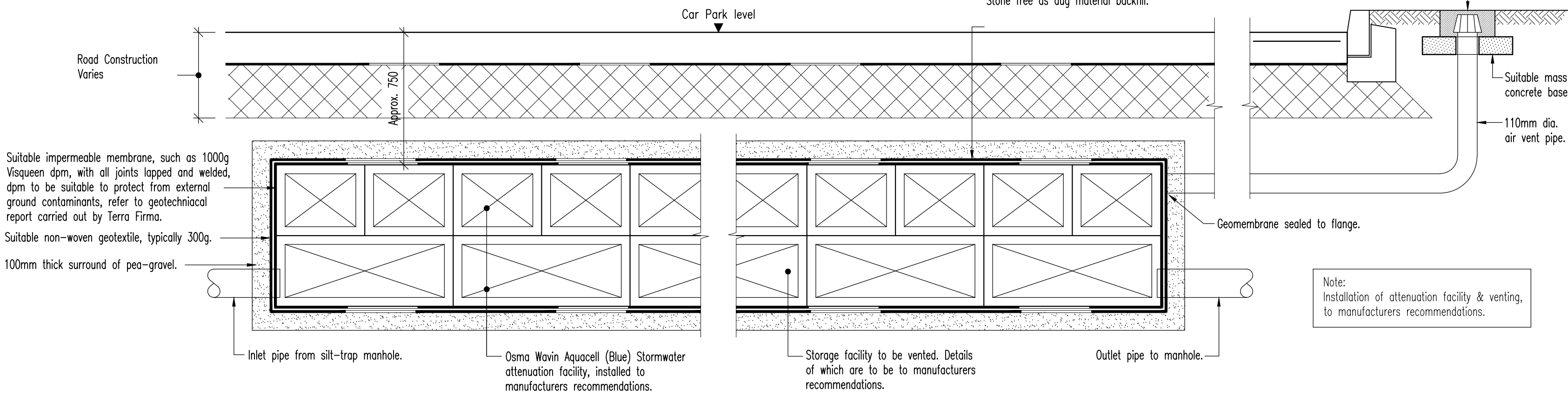
PIPE BEDDING DETAILS	
PIPE DIAMETER	GRANULAR MATERIAL SIZE
100mm	10mm nominal single size
150mm	10mm or 14mm nominal single size
150mm – 500mm	10mm, 14mm or 20mm nominal single size
OVER 500mm	10mm, 14mm, 20mm or 40mm single size

NOTE:
Granular material for bedding and sidefill to conform to BS.882 : 1983.



ROAD GULLY SECTION DETAIL

NOTE:
Dimension 'A' to be 750mm minimum below carriageway surface to allow for services to clear gully connections & reduce the risk of damage to pipes due to settlement. Where depth of run is below 1.2m below finished c/way level a flexcell joint is to be used at every joint.



STORMWATER ATTENUATION FACILITY
(TYPICAL OSMA WAVIN AQUACELL)

AUSTIN PARTNERSHIP
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PROJECT :
DEVELOPMENT
CRAMIC WAY, PORT TALBOT

TITLE :
DRAINAGE DETAILS

DATE : NOV '14	DRAWN : MWD	PROJECT No : 14.3122	DRG. No : 003	REV : -
SCALE : 1:20 (A1)	CHECKED : -			