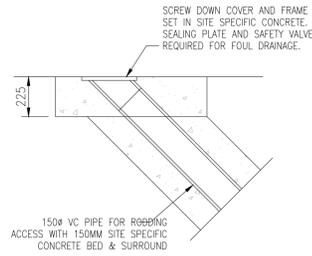
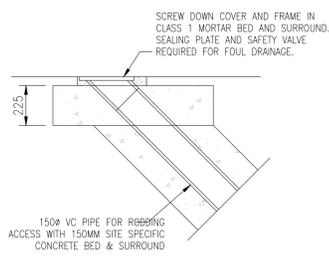


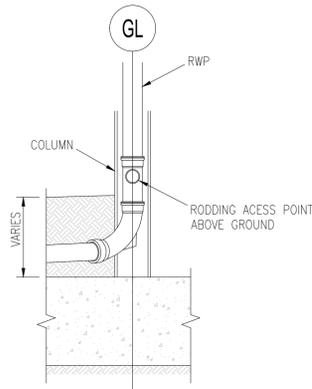
**RODDING ACCESS DETAIL FOR TRAFFIC LOADED AREAS**



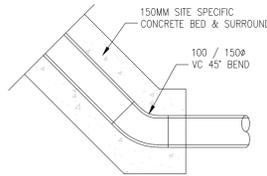
**RODDING ACCESS DETAIL FOR SOFT AREAS**



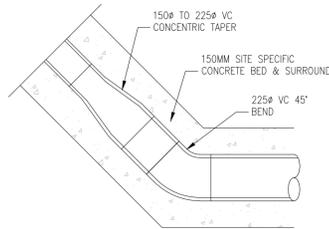
**RODDING ACCESS DETAIL FOR PEDESTRIAN AREAS**



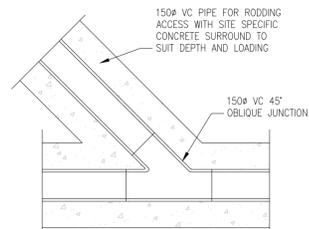
**TYPICAL RWP RODDING POINT**



**TYPICAL BASE DETAIL**

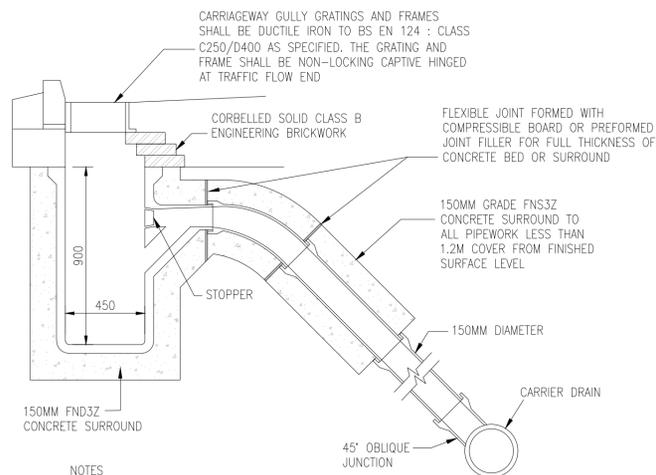


**2250 RODDING BASE DETAIL**



**ONLINE RODDING BASE DETAIL**

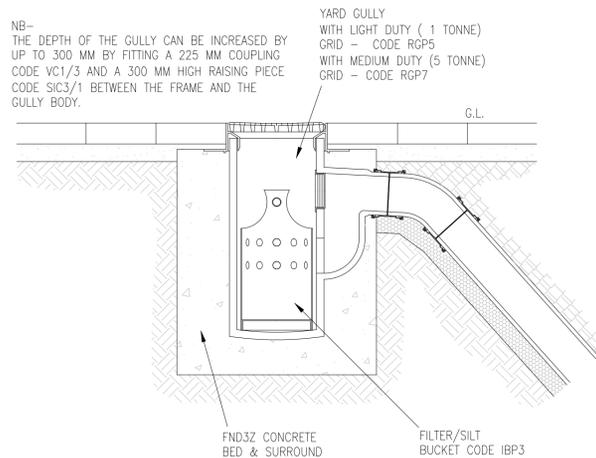
**TYPICAL RODDING ACCESS POINTS**



**NOTES**

- GULLY POT TO BE 95 LITRES MIN CAPACITY
- MAXIMUM TRENCH WIDTH FOR 150MM GULLY LEAD IS 600MM NUMBER OF BENDS MAY VARY DUE TO SITE DIFFERENCES.
- CONCRETE SURROUND TO PIPES SHALL ALWAYS FINISH AT A JOINT

**GULLY DETAIL WITH CONNECTION TO CARRIER DRAIN**



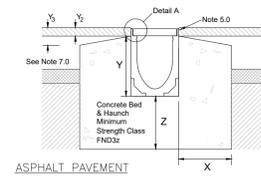
**YARD GULLY CONNECTION DETAIL (HEPWORTH MATERIALS)**

- GROUND CONDITIONS: CBR TESTS TO BE TAKEN AT FORMATION LEVEL AND REPORTED TO THE ENGINEER PRIOR TO INSTALLATION OF SUB BASE OR FOUNDATION LAYERS.
- BLOCK PAVEMENTS: THE CHANNEL MUST BE SUPPORTED Laterally AND THEREFORE BLOCKS MUST BE RESTRAINED FROM MOVEMENT BY BEDDING SECURELY. E.G. BY USING AN EPOXY OR POLYMER MODIFIED MORTAR FOR BED AND PERPENDICULAR JOINTS. (FOR EXAMPLE RONAFIX MORTAR MIX C OR SIMILAR: FROM RONACRETE TEL 01279 638700). ENGINEERING ADVICE MAY BE REQUIRED.
- SURFACE CRACKS: ALTERNATE CRACK CONTROL AND MOVEMENT JOINTS TRANSVERSELY WITHIN BED AND HAUNCH MAY REDUCE UNSIGHTLY SURFACE CRACKING. ENGINEERING ADVICE MAY BE REQUIRED.
- JOINT SEALANT: WHERE ACO DRAIN CHANNEL JOINTS AND FITTINGS ARE TO BE SEALED (WHERE USED IN FOUL WATER APPLICATIONS OR WHERE IMPERMEABILITY IS REQUIRED, FOR EXAMPLE) CONTACT A SEALANT SPECIALIST FOR GUIDANCE ON THE MOST APPROPRIATE SEALING COMPOUND TO USE.
- SURFACE PROTECTION: IN ASPHALT PAVEMENTS AVOID CONTACT BETWEEN COMPACTION EQUIPMENT AND CHANNEL/GRATING. THIS MAY BE ACHIEVED BY ENSURING THAT THE FINISHED SURFACE LEVEL LIES ABOVE THE GRATING LEVEL (BY AT LEAST 3mm). STONES SHOULD BE ABOVE THE GRATING LEVEL (BY AT LEAST 3mm). STONES SHOULD BE REMOVED FROM GRATING PRIOR TO LAYING/ROLLING WEARING COURSE.
- GENERAL INSTALLATION NOTES: SEE DRAWING FOR GENERAL NOTES ON INSTALLATION.
- MINIMUM DIMENSIONS OF CONCRETE SURROUND

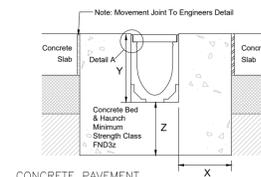
Load Class	A15	B125	C250	D400*
Minimum Dimensions (mm)	X 100	150	150	200
Y	Full Channel Height (Less Y2 where necessary)			
Z	100	150	150	200
Maximum Dimensions (mm)	Y2 35	35	35	35
Y1	100	60	60	60

\* E.G. PARKING AREAS FOR ALL TYPES OF ROAD VEHICLE. NOT SUITABLE FOR CARRIAGEWAY OF ROADS. NOTE DASHED LINE PRINTED ON EDGE RAILS 35MM BELOW TOP.

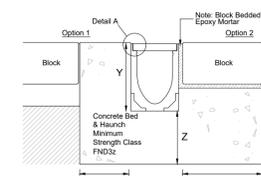
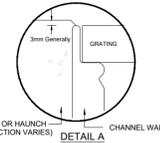
8.0 GRATING SECURITY LOCKS  
ALL THE GRATINGS ARE HELD IN THE CHANNEL UNITS BY THE DRAINLOCK FIXING. IN ADDITION, GRATINGS TYPE 23405, 23161 & 23221 (CAST IRON) AND 12680/12682 (COMPOSITE) CAN BE LOCKED IN PLACE WITH AN OPTIONAL SECURITY LOCKING KIT. SEE INSTALLATION NOTES.



**ASPHALT PAVEMENT**

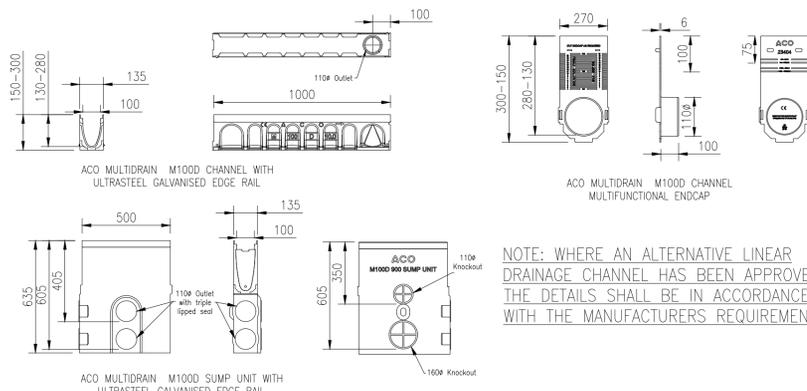


**CONCRETE PAVEMENT**



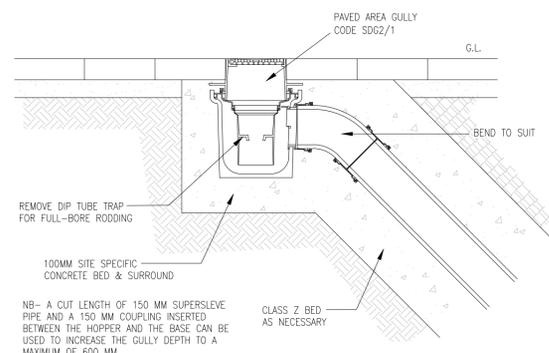
**BLOCK PAVEMENT (OPTION 1 & 2)**

**INSTALLATION DETAILS FOR ACO MULTIDRAIN M100/150/200D DRAINAGE CHANNEL WITH ULTRASTEEL GALVANISED EDGE RAIL**



NOTE: WHERE AN ALTERNATIVE LINEAR DRAINAGE CHANNEL HAS BEEN APPROVED THE DETAILS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS

**ACO CHANNEL DRAIN DETAILS**



**PAVED AREA GULLY CONNECTION DETAIL**

Do not scale from this drawing. Use written dimensions only. If in doubt ask.

**Notes**

**GENERAL**

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS AND DATUMS IN METRES UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS, LEVELS AND DATUMS TO BE CONFIRMED ON SITE, PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL BUILDING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING REGULATIONS AND THE CIVIL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS.
- ALL EXTERNAL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.

Revision	Drawn	Checked	Approved	Modifications
C01	AJ	IR	SW	BRST ISSUE



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**Client**



**Project**

**HUDDERSFIELD MARKET**

**Title**

**DRAINAGE STANDARD DETAILS SHEET 3 OF 3**

Scale	Revision	Status Code	Original Size
AS SHOWN	C01	A3	A1

**Fig. No.**

**1036-SWA-00-XX-DR-D-0507**

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