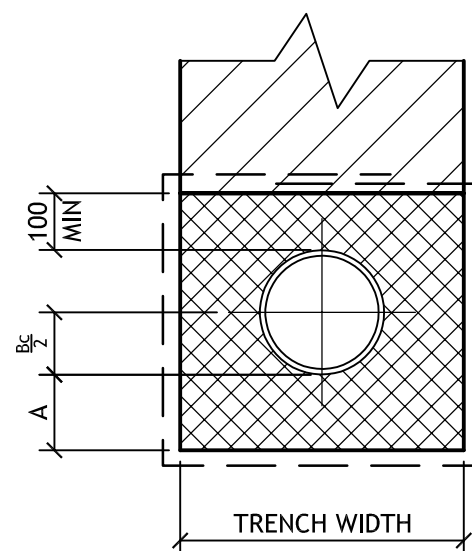




Bc = EXTERNAL DIAMETER OF PIPE

UNIFORM SOILS

A = $\frac{Bc}{4}$ OR 100mm WHICHEVER IS GREATER

ROCK & SOILS CONTAINING HARD SPOTS

A = $\frac{Bc}{4}$ OR 200mm WHICHEVER IS GREATER

NEEDLE PUNCHED GEOTEXTILE WRAPPED AROUND GRANULAR PIPE BEDDING TO PREVENT MIGRATION OF FINES FROM SURROUNDING SOILS. GEOTEXTILE NOT REQUIRED IN COHESIVE (CLAY) MEASURES

MAIN BACK FILL
SELECTED EXCAVATED MATERIAL. COMPACTED IN LAYERS NOT EXCEEDING 225mm. IN COHESIVE SOILS TRENCHES UNDER ROADS AND HARD STANDINGS SHALL BE BACK FILLED WITH IMPORTED GRANULAR MATERIAL.

TYPE A GRANULAR BEDDING
BEDDING

PIPE BEDDING DETAILS

CLASS S
SCALE 1:20

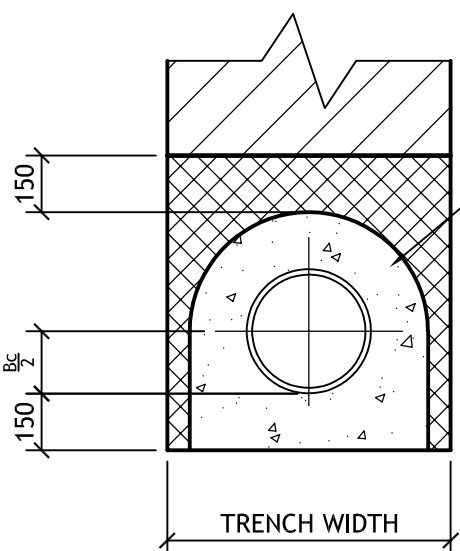
PIPE BEDDING MATERIAL SHALL CONSIST OF FREE-DRAINING, HARD, CLEAN, CHEMICALLY STABLE GRAVEL, CRUSHED STONE OR CRUSHED SLAG, GRADED IN ACCORDANCE WITH THE FOLLOWING TABLE. THE MATERIAL SHALL HAVE A COMPACTION FRACTION VALUE NOT EXCEEDING 0.2.

B.S. 410 TEST SIEVE	PERCENTAGE BY MASS PASSING			
	TYPE A40	TYPE A20	TYPE A14	TYPE A10
63mm	100	-	-	-
37.5mm	85-100	100	-	-
20mm	0-25	85-100	100	-
14mm	-	-	85-100	100
10mm	0-5	0-25	0-50	85-100
5mm	-	0-5	0-10	0-25
2.36mm	-	-	-	0-5

THE BEDDING MATERIAL TYPE SHALL BE CHOSEN ACCORDING TO PIPE SIZE IN ACCORDANCE WITH THE FOLLOWING TABLE.

PIPE BEDDING MATERIAL	
NOMINAL PIPE SIZE mm	BEDDING MATERIAL
LESS THAN 300	A10
300 - 525	A14

TRENCH WIDTHS	
MAXIMUM TRENCH WIDTHS	
PIPE Ø	WIDTH
100	550
150	600
225	700
300	750
375	1050



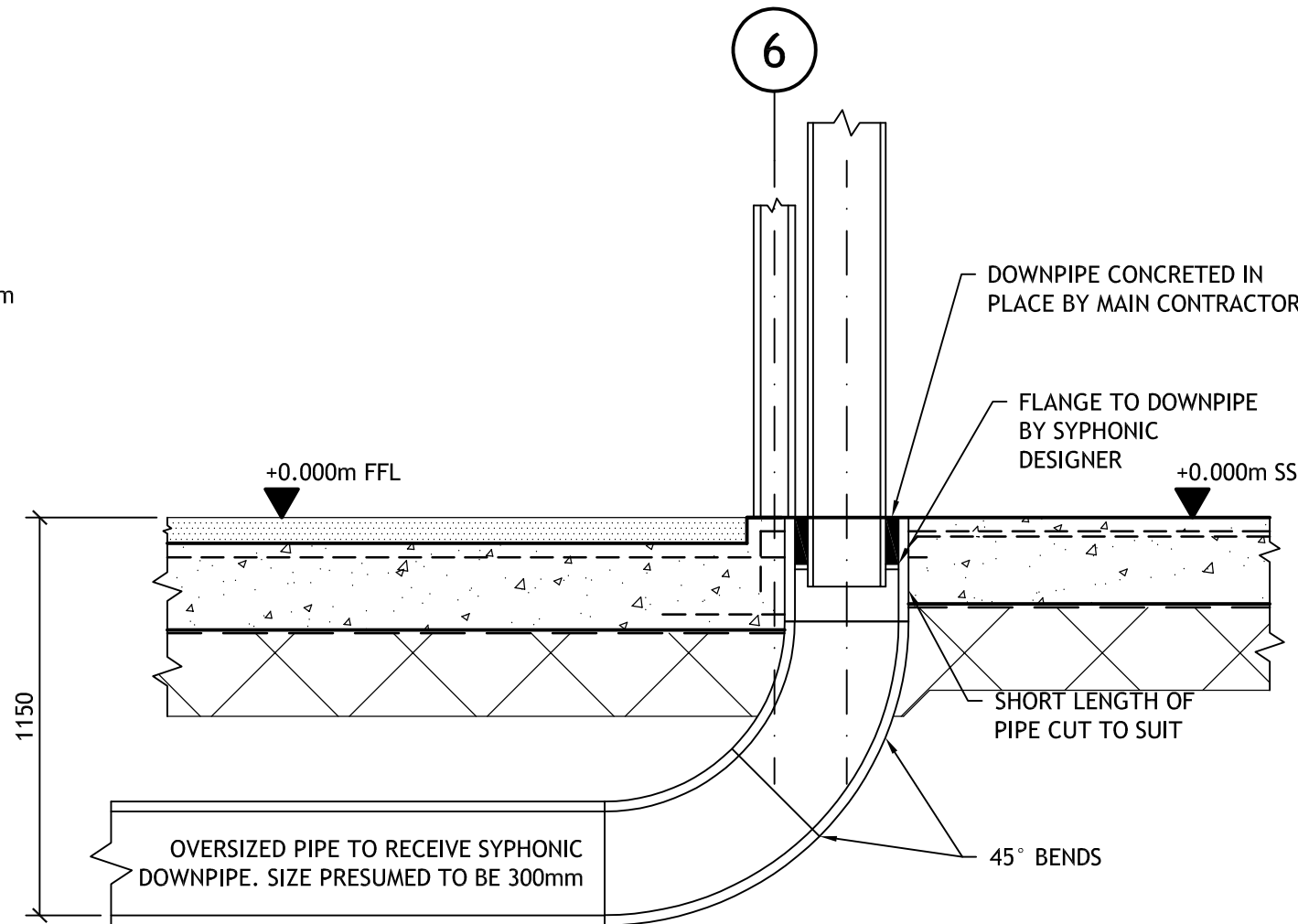
MINIMUM 150mm CONCRETE SURROUND AS SHOWN OR TO FULL TRENCH WIDTH. JOINTS REQUIRED IN SURROUND AT 5m MAXIMUM CENTRES USING 25mm COMPRESSIBLE FILLER BOARD ACROSS SECTION AT JOINT POSITIONS

MAIN BACK FILL
SELECTED EXCAVATED MATERIAL. COMPACTED IN LAYERS NOT EXCEEDING 225mm. IN COHESIVE SOILS TRENCHES UNDER ROADS AND HARD STANDINGS SHALL BE BACK FILLED WITH IMPORTED GRANULAR MATERIAL.

TYPE A GRANULAR BEDDING
BEDDING

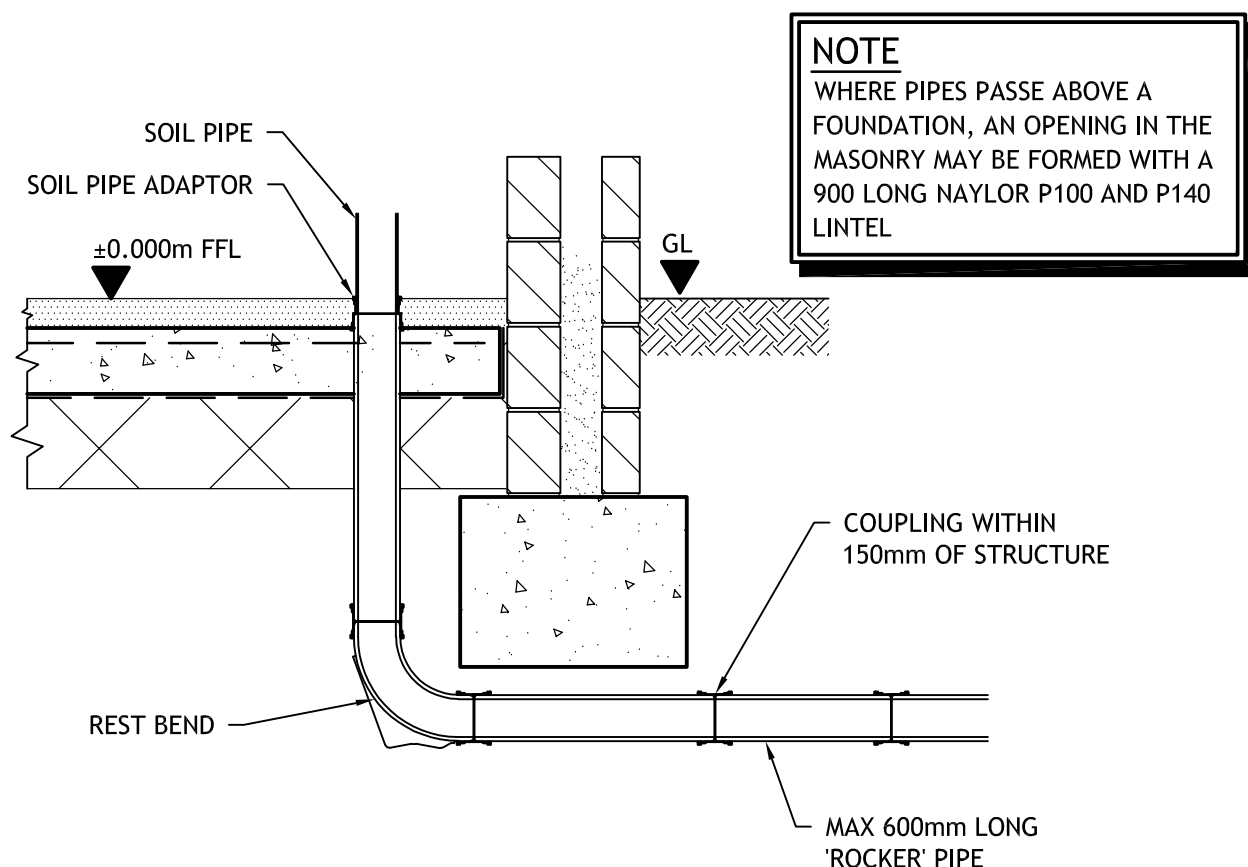
CONCRETE SURROUND DETAIL

WHERE COVER LESS THAN 1.2m
UNLESS AGREED OTHERWISE WITH BUILDING CONTROL
SCALE 1:20



TYPICAL SYPHONIC RWP CONNECTION

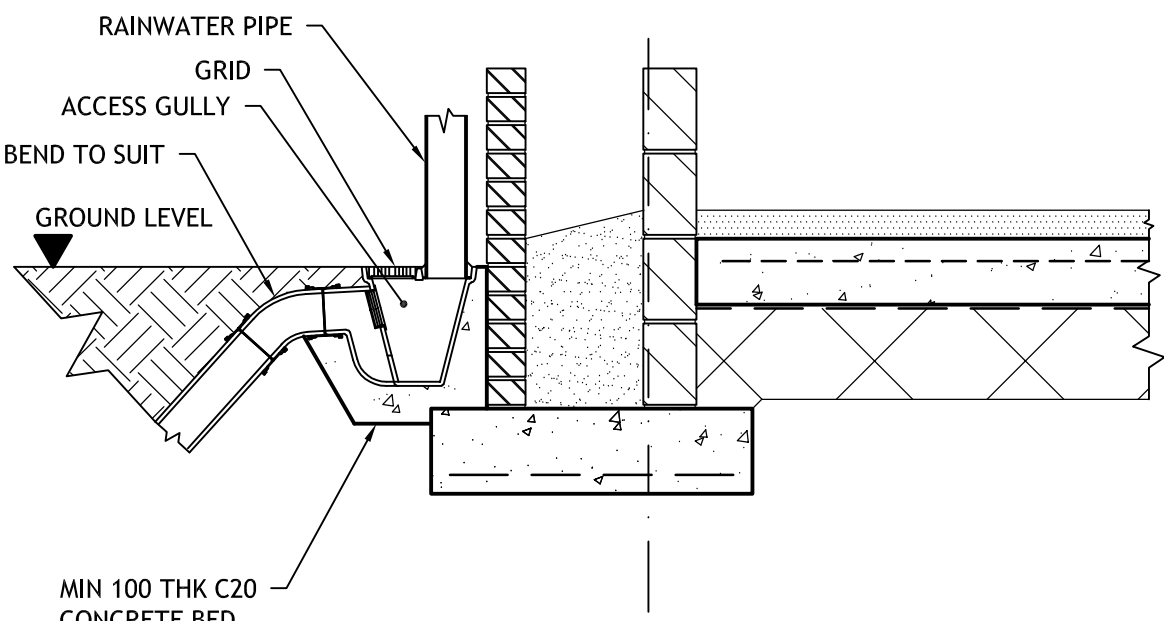
DETAIL TO BE AGREED WITH MANUFACTURER
SCALE 1:20



NOTE
WHERE PIPES PASSE ABOVE A FOUNDATION, AN OPENING IN THE MASONRY MAY BE FORMED WITH A 900 LONG NAYLOR P100 AND P140 LINTEL

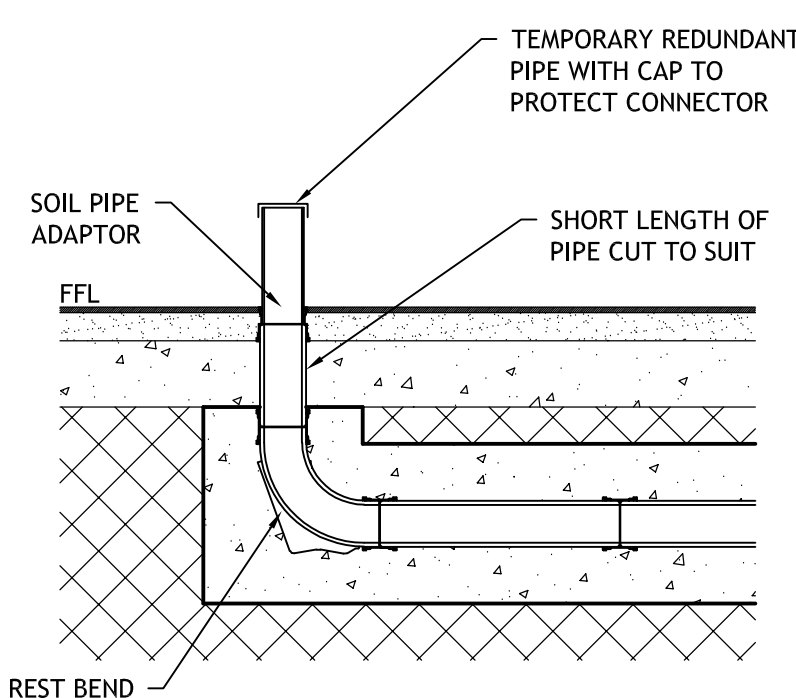
SOIL & VENT PIPE DETAIL

(CLOSE TO WALL)
ALL DRAINAGE BENEATH THE SLAB IS TO BE ENCASED IN A MINIMUM OF 150mm CONCRETE
SCALE 1:20



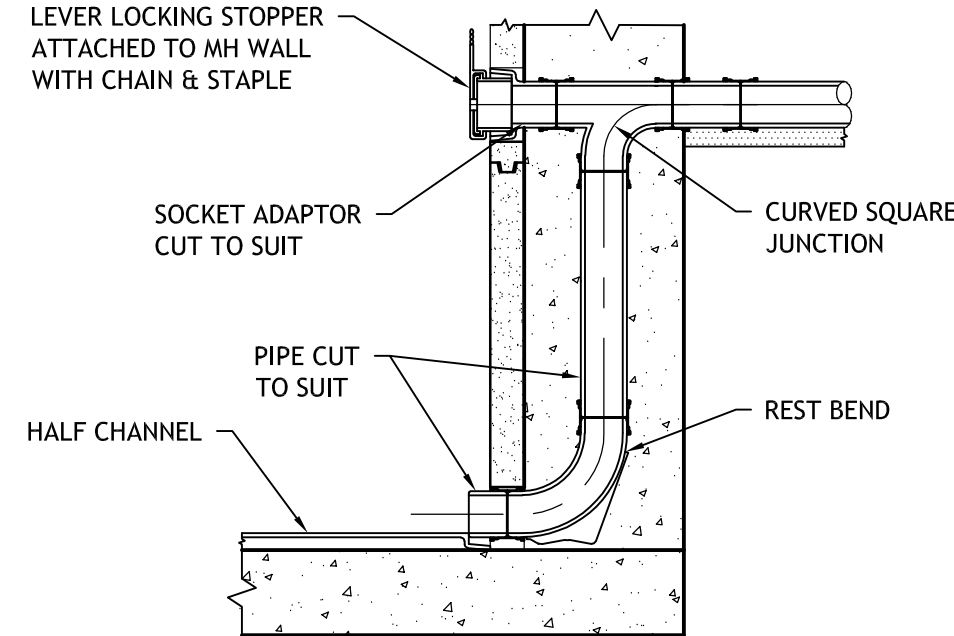
RAINWATER PIPE AND BACK INLET GULLY

SCALE 1:20



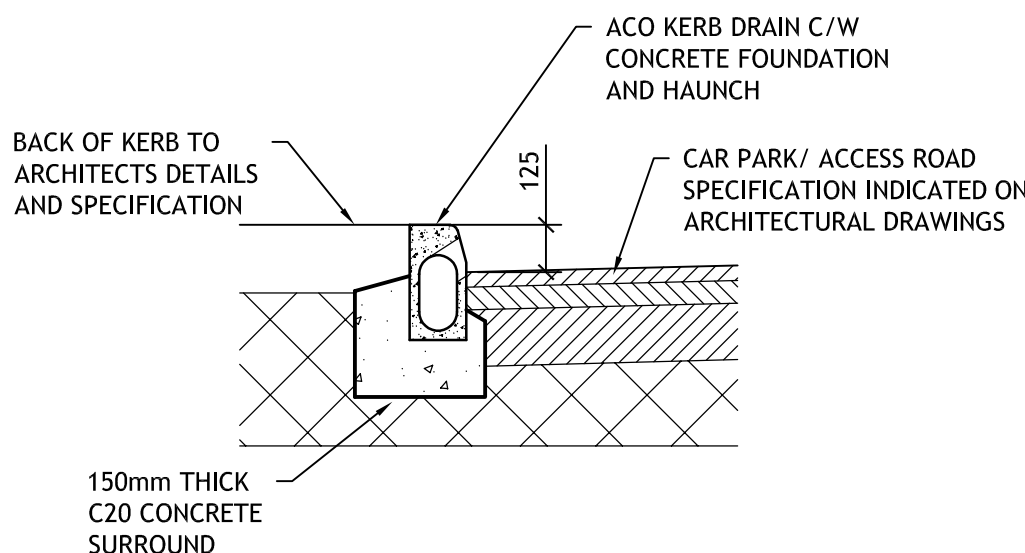
SVP/STUB STACK DETAIL

SCALE 1:20



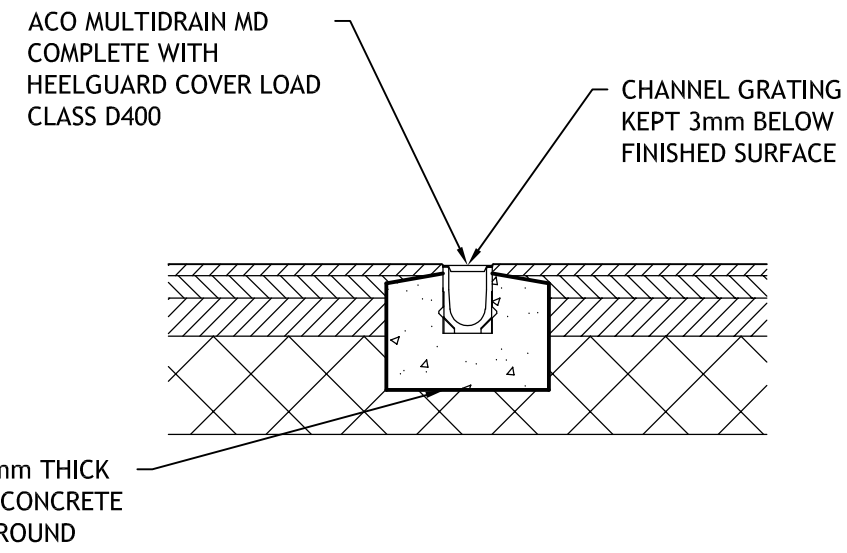
BACKDROP DETAIL

SCALE 1:20



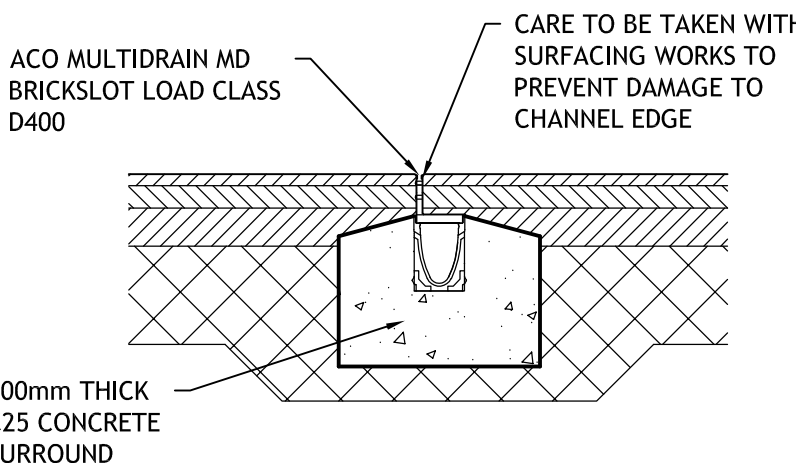
ACO KERBDRAIN DETAIL

SCALE 1:20



ACO CHANNEL DETAIL

SCALE 1:20



ACO BRICKSLOT CHANNEL DETAIL

SCALE 1:20

CDM SYMBOL KEY

- WARNING OF SIGNIFICANT RISK
- PROHIBITED ACTION
- PARTICULAR ACTION ENCOURAGED
- CDM INFORMATION

GENERAL

- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION
- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM.
- ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

NOTE

THE ARCHITECTURAL BACKGROUNDS ARE A VISUAL REPRESENTATION OF THE PROPOSED BUILDING LAYOUT, BUT ARE NOT NECESSARILY DIMENSIONALLY ACCURATE AND THUS MAY NOT RELATE TO THE LOCATION OF THE STRUCTURAL MEMBERS

ABBREVIATIONS

- FFL - FINISHED FLOOR LEVEL
- SSL - STRUCTURAL SLAB LEVEL
- TOC - TOP OF CONCRETE
- TOS - TOP OF STEEL
- UOS - UNDERSIDE OF STEEL
- UOR - UNDERSIDE OF RAIL
- WP - WIND POST
- DL - DEAD LOAD
- IL - IMPOSED LOAD

C01	30/07/21	ISSUED FOR TENDER	MTB	PSS
Rev	Date	Description	By	Chkd

Project
**ALPHA PLACE
JORDAN ST
MANCHESTER**

Client
365 ROOMS MANCHESTER LTD.

Drawing Title
**DRAINAGE
TYPICAL DRAINAGE DETAILS**

Project - Originator - Func. - Spat. - Form - Disc. - Number
9198-SWF-XX-XX-D-C-1402

Scale 1: 20	@ A1	Date MONTH YEAR	By MTB	Chkd PSS
Suitability Status A1: APPROVED FOR TENDER	Revision C01	Classification PM_40_40		

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