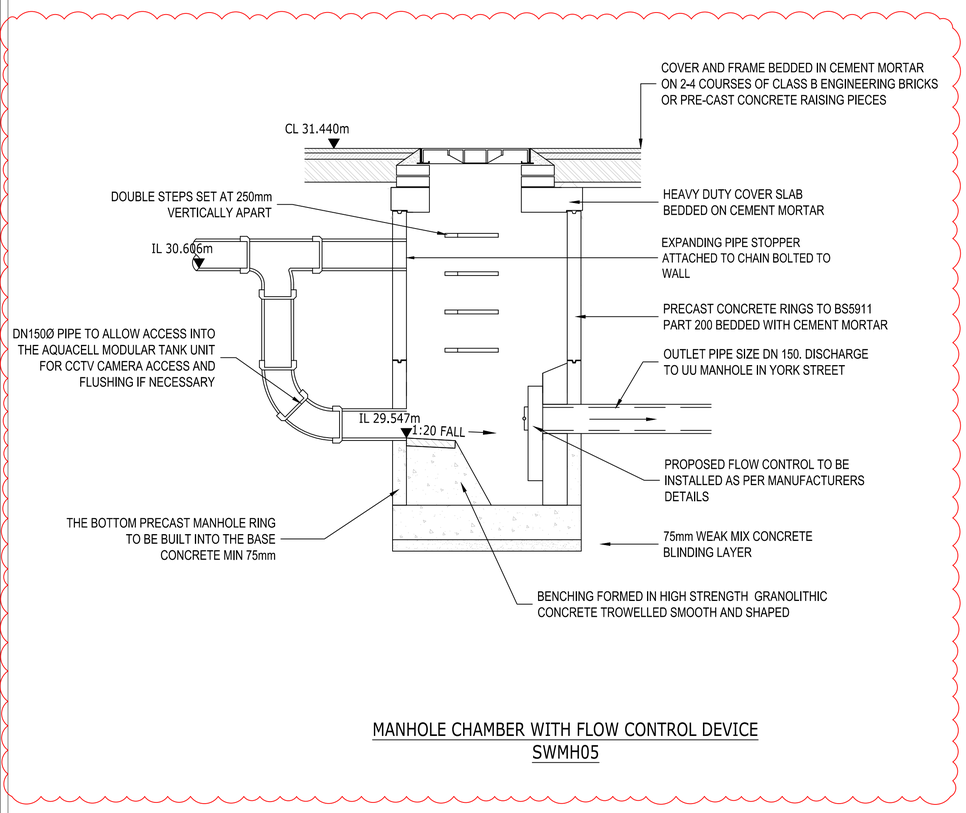
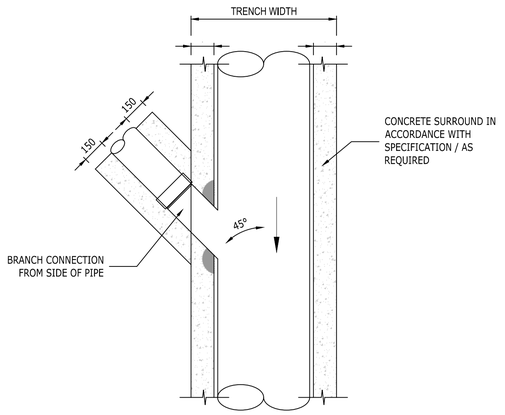
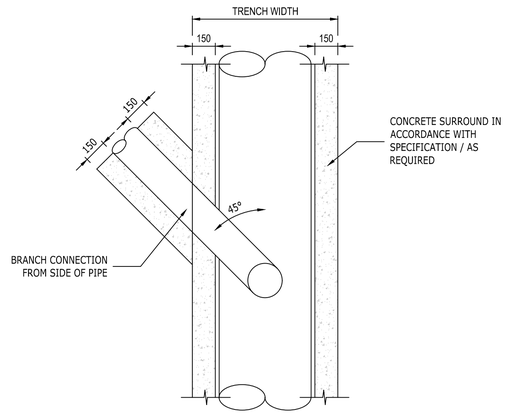


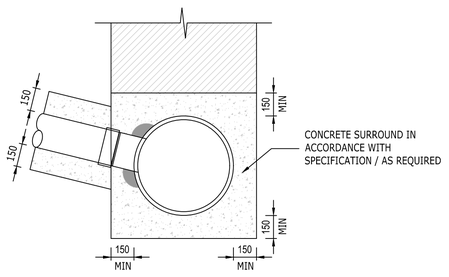
MANHOLE CHAMBER WITH FLOW CONTROL DEVICE
SWMH05



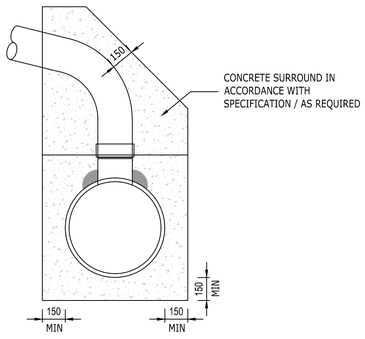
MAIN DRAINAGE RUN PLAN
SIDE CONNECTION



MAIN DRAINAGE RUN PLAN
TOP CONNECTION

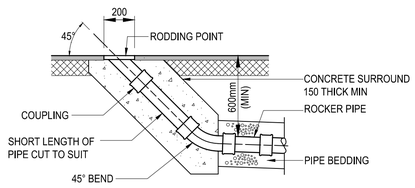


SECTION
SIDE CONNECTION

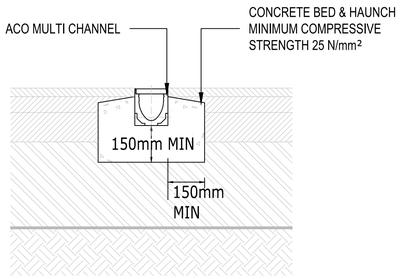


SECTION
TOP CONNECTION

TYPICAL BRANCH CONNECTION DETAILS
SCALE 1:20



RODDING EYE
SCALE 1:20



STANDARD CAR PARK CHANNEL
M100D(0.0) LOAD CLASS C250
SCALE 1:20

DISCLAIMER:

This model is anuncontrolled version issued for information only, to enable the recipient to prepare their own documents/ drawings for which they are solely responsible. It is based on DeSimone's background information current at the time of issue. DeSimone accepts no liability for any such alterations or additions to or discrepancies arising out of changes to such background information which occurs after it is issued by DeSimone

By its very nature, the model represents work in progress. This Revit model is supplementary to formally issued drawings; therefore any drawing sheets within this Revit file should not be treated as formally issued drawings.

Notes:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. WHERE THERE APPEARS TO BE A CONFLICT BETWEEN DIMENSIONS OR WHERE DIMENSIONS CANNOT BE DETERMINED FROM THE DRAWINGS, CONSULT THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
   - 3.1. TYPICAL DRAINAGE DETAILS
   - 3.2. MANHOLE SCHEDULE
   - 3.3. PAVEMENT DETAILS DRAWING
   - 3.4. CIVIL ENGINEERING TECHNICAL SPECIFICATION.
4. THIS DRAWING IS BASED ON:
   - 4.1. TOPOGRAPHICAL SURVEY PROVIDED BY POINT 2 SURVEYORS
   - 4.2. UTILITY SURVEY PROVIDED BY LAYER SURVEYS LTD
   - 4.3. UNITED UTILITIES SEWER RECORDS
   - 4.4. CCTV SURVEY PROVIDED BY SURVEY HUB
   - 4.5. RWP & SVP POSITIONS BY FUTURESERV
5. THE CONTRACTOR SHALL:
   - 5.1. VERIFY EXISTING UTILITIES BEFORE STARTING WORKS.
   - 5.2. VERIFY THE DIMENSIONS SHOWN ON THE DRAWINGS BEFORE FABRICATION, SETTING OUT OR EXCAVATION OF THE WORK, AND SHALL BE HELD RESPONSIBLE FOR ANY ERRORS OR INACCURACIES RESULTING FROM FAILURE TO DO SO.
   - 5.3. CHECK AND VERIFY THE LOCATION AND LEVELS ALL EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES AGAINST DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. THE SURFACE WATER DRAINAGE HAS BEEN DESIGNED FOR NO FLOODING FOR A 1 IN 100 YEAR PLUS 45% ALLOWANCE FOR CLIMATE CHANGE. THE SURFACE WATER NETWORK HAS BEEN DESIGNED TO RESTRICT THE DISCHARGE RATE FROM THE SITE TO 2.5 l/s FOR THE 1:100 RAINFALL EVENT PLUS 45% CLIMATE CHANGE. THE FOUL WATER DRAINAGE HAS BEEN DESIGNED BASED ON A PEAK FOUL WATER RATE CALCULATED AT 12.79 l/s BASED ON RESIDENTIAL UNITS.
5. CONNECTIONS TO THE PUBLIC SEWER ARE SUBJECT TO SECTION 106 OF THE WATER INDUSTRY ACT 1991 APPROVAL. NO WORKS AFFECTING THE PUBLIC SEWERAGE SYSTEM MAY BE CARRIED OUT WITHOUT U/S PRIOR WRITTEN CONSENT
6. THE PROPOSED BUILDING OUTLINES SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS. EXTERNAL MANHOLE COVER LEVELS TO BE CONFIRMED BY LANDSCAPE ARCHITECT.
7. ALL DRAINAGE BELOW SLAB AND ALL DRAINAGE OUTSIDE BUILDING TO BE STRUCTURED WALL PVC-u.
8. FOR SETTING OUT DIMENSIONS OF SS'S, SVP'S, RWP'S, FLOOR GULLY & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO FUTURESERV DRAWINGS.
9. ALL INTERNAL DRAINAGE PIPEWORK FOR DEVELOPMENT SHOWN SHALL BE 100mm DIAMETER FOR FOUL AND FOR SURFACE WATER UNLESS NOTED OTHERWISE.
10. ALL DRAINAGE PIPEWORK TO BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED. ALL STACK CONNECTIONS TO BELOW THE SLAB AND RAINWATER PIPES TO HAVE RODDABLE ACCESS ABOVE GROUND.
11. ALL DROP POINTS TAKEN BELOW UNDERSIDE OF SLAB WITHIN VOIDED AREA UNLESS OTHERWISE NOTED.
12. ALL DRAINAGE PIPEWORK SHALL BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED. ALL STACK CONNECTIONS TO BELOW THE SLAB AND RAINWATER PIPES TO HAVE RODDABLE ACCESS ABOVE SLAB. ALL STACK CONNECTIONS TO BELOW THE SLAB AND RAINWATER PIPES TO HAVE RODDABLE ACCESS ABOVE GROUND.
13. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE. USE OF SHORT/ LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
14. ALL UNDERSLAB DRAINAGE FOR TOWNHOUSES SHALL BE LAID AT GRADIENTS OF 1:40 MIN. FOR FOUL PIPEWORK AND 1:80 MIN. FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE.
15. CONTRACTOR TO PROVIDE ADEQUATE PROTECTION TO SHALLOW PIPES. PIPE PROTECTION DETAIL TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 0.9m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6m FOR SOFT AND PEDESTRIAN AREAS AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1m OF FOUNDATIONS.
16. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300mm.
17. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
18. ALL PROPRIETARY PRODUCTS / SYSTEMS TO BE VERIFIED BY THE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION / DETAILS.
19. BAUDER BLUE ROOF SPECIALIST & FUTURESERV ARE RESPONSIBLE FOR ALL ABOVE GROUND DRAINAGE PIPES AND BLUE ROOF.

REV.	DATE	DESCRIPTION	DRW	APR
P02	03/08/26	FLOW CONTROL ADDED	EW	DEP
P01	26/06/25	S4 - THIRD ISSUE	EW	DEP
T01	31/03/25	TENDER ISSUE	SL	MM

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PROJECT TITLE
CHARLES STREET
CHARLES STREET, MANCHESTER, M1 7DF

DRAWING TITLE
CHARLES STREET
TYPICAL DRAINAGE DETAILS - SHEET 3

ISO 19650 NUMBER REFERENCE	PAPER SIZE	CLASSIFICATION
10489-Z1-DCE-D-S-XX-5412	A1	PM_40_40_88

DRAWN BY	APPROVED BY	DATE	SCALE
SL	MM	31/03/25	1 : 20

INTERNAL NO.	STATUS	STATUS DESCRIPTION	REVISION
1983	S4	STAGE 4 - FOR APPROVAL	P02

DRAWING NUMBER
10489-DCE-Z1-S-G200-DE-XX-5412

0 5 10 15 20 25 50
Do not scale from this drawing, figured dimensions only should be used. If in doubt ASK.