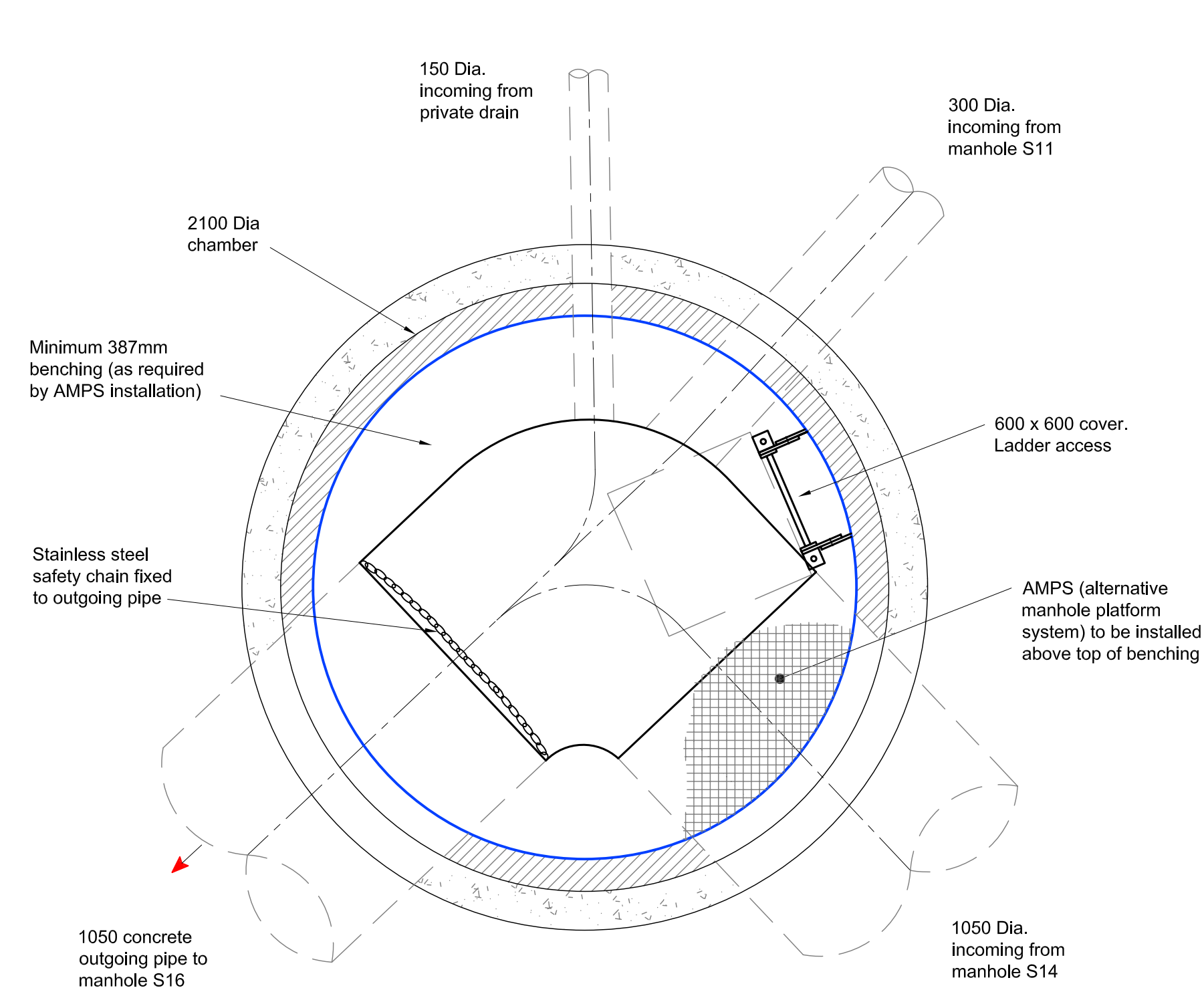
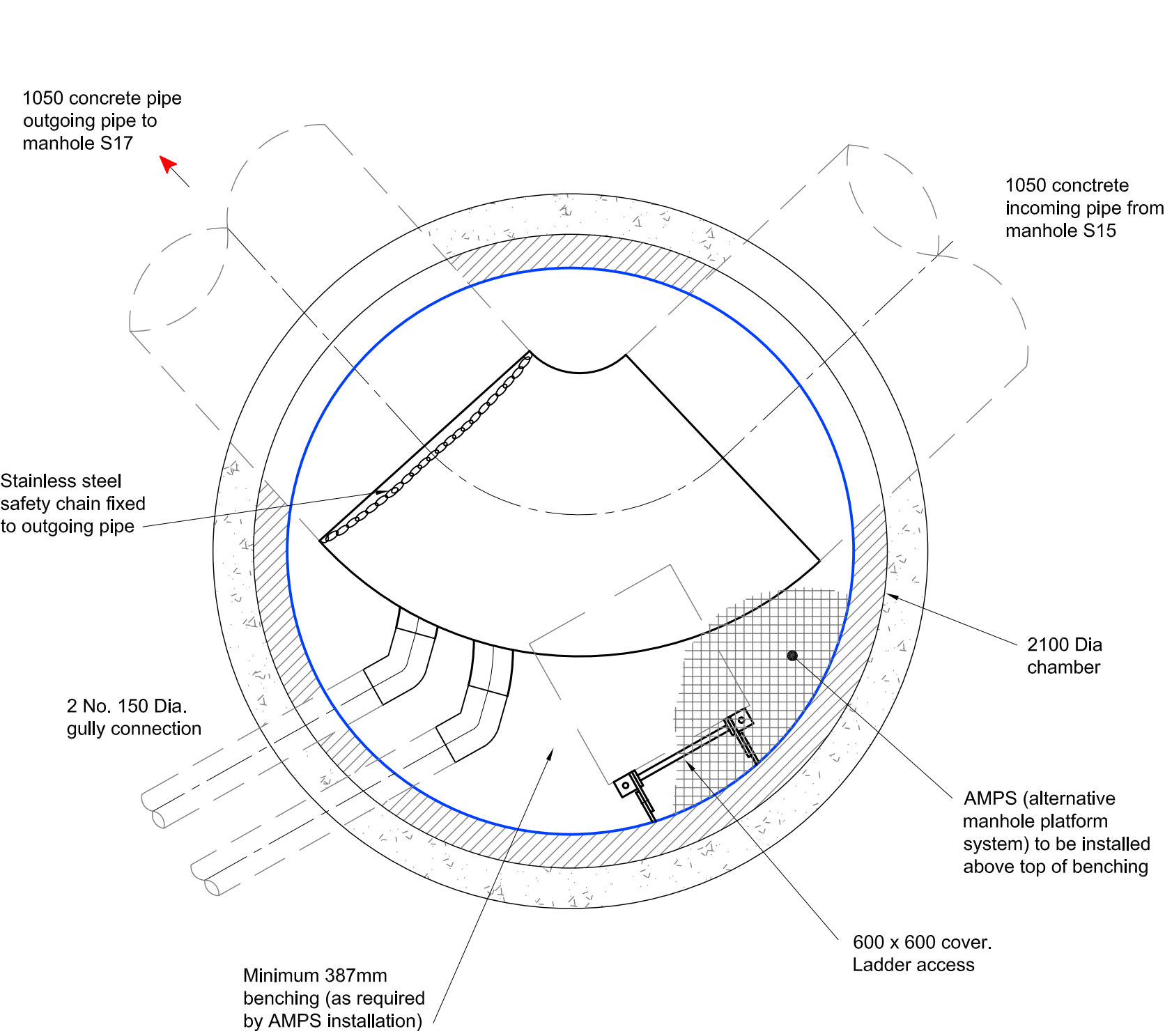
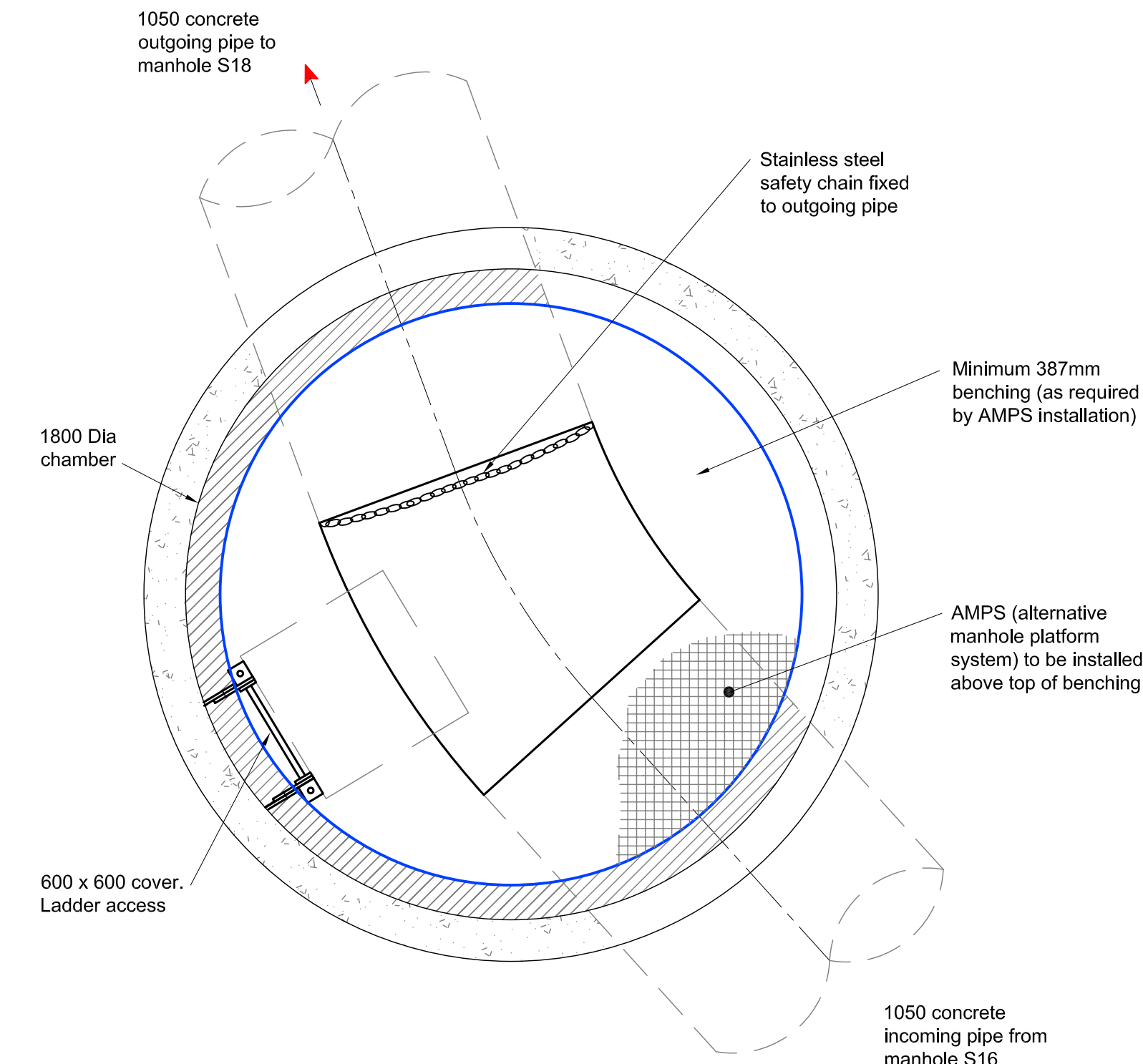




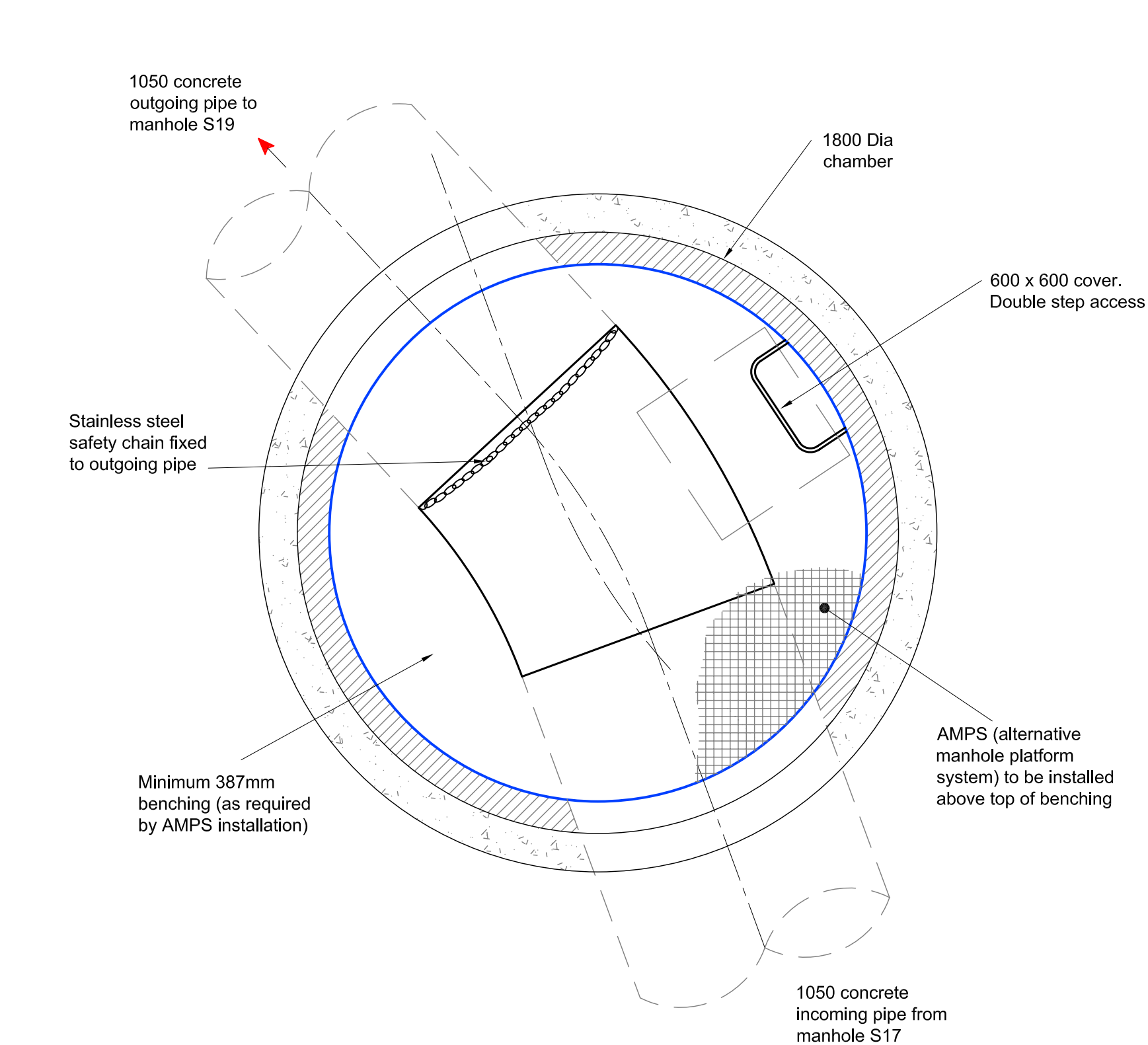
Manhole S15
Plan
Scale 1:20
CL 71.790
IL 67.036



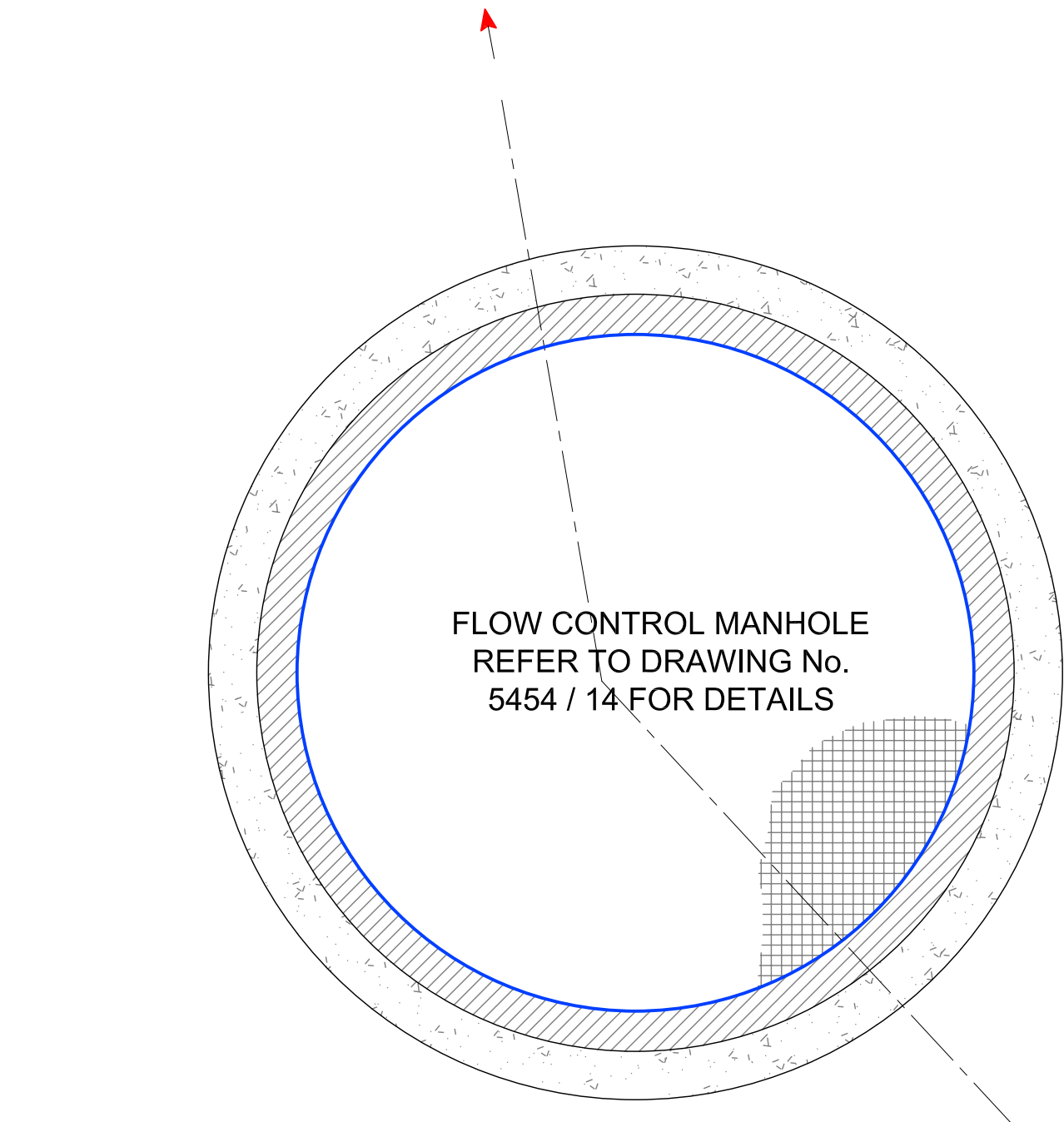
Manhole S16
Plan
Scale 1:20
CL 70.700
IL 66.956



Manhole S17
Plan
Scale 1:20
CL 70.210
IL 66.890



Manhole S18
Plan
Scale 1:20
CL 69.790
IL 66.851



Manhole S19
Plan
Scale 1:20
CL 69.260
IL 66.808

Notes

- All works shall be in accordance with Sewers for Adoption 6th Edition and United Utilities Standard Details and Guidelines.
- Step Rungs shall be installed in accordance to BS EN 13101.
- Manholes shall be to United Utilities Standard Detail STND/01/001. Ladders, Safety chains and Handrailing shall be to Standard Detail STND/01/002. Back-drops shall be to Standard Detail STND/01/003.
- 150mm min concrete surround required for all adopted Manholes.
- Rocker pipes shall be provided in accordance with United Utilitie Standard Details.
- Pipe materials as table below or similar approved by United Utilities.

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
150	CLAYWARE
225	CLAYWARE
300	CLAYWARE
375	CONCRETE
450	CONCRETE
600	CONCRETE
750	CONCRETE
900	CONCRETE
1200	CONCRETE
1500	CONCRETE

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

Coopers Drawing List:

5399/01	Proposed Drainage Layout
5399/02	Proposed Drainage Longsections
5399/03	Proposed Highway Layout
5399/04	Proposed Highway Levels
5399/05	Highway Construction Details
5399/06	Drainage Construction Details
5399/07	Manhole Schedule
5399/08	Private Drainage Layout
5399/09	External Works Layout
5399/10	Section 38 Composite Plan
5399/11	Section 278 Works - Alderley
5399/12	Section 278 Works - Dlgmoor Road
5399/13	Foul Manhole Details
5399/14	Surface Water Manhole Details
5399/15	Flow Control Manhole Details
5399/16	Section 278 Works - Highway Construction Details

APPROVAL

coopers

chartered consulting engineers
Tel: 01244 684910
Fax: 01244 684911
Email: admin@cooperassociates.co.uk
Web: http://coopers.co.uk

Park House
Sandpiper Court
Chester Business Park
Chester
CH4 9QU

Client **millermiller homes**
Miller Homes Limited - North West Region

Project **Primrose Mill, Woone Lane
Clitheroe**

Title **Surface Water Manhole Details**
Sheet 3 of 3

DRAWING NUMBER	SCALE at A1	DATE	July 2012	REVISION
5454/12-3		DRAWN	AJ	B
		CHECKED	DTC	