
Siphonic Drainage (Siphonix)

Contents

Siphonix
Kevin Wright
kevin@siphonix.com
Unit 1
Tyler Way
Sheffield
South Yorkshire
S75 3LS
0114 2431033



winvic
winvic.co.uk

Contents

Scope of Works

Certificates/Warranties/Guarantees

Cleaning and Maintenance Regimes

Data Sheets



winvic

winvic.co.uk

Scope of Works



winvic

winvic.co.uk



C550 – Wingates Plot 3 Bolton

SCOPE OF WORKS

The Design, Supply and installation of the Siphonic Roof Drainage System to the Main Warehouse & Offices.

RFI – 25 Year Building Life Category 3 Risk
112.5 year Return Period

Split 50/50 between Primary/Secondary Systems

Certificates/Warranties/Guarantees



winvic

winvic.co.uk

Siphonix Worldwide Ltd
Unit 5
Durham Lane
Doncaster
DN3 3FE

Tel: 01142 431033



INSPECTION AND TEST CERTIFICATE SIPHONIC ROOF DRAINAGE SYSTEM

PROJECT: WINVIC PLOT 3 WINGATES.	LOCATION: BOLTON	DRAWING NO: C550
--	------------------	------------------

INSPECTION	DP REF	DP REF	DP REF	DP REF	DP REF	DP REF
	DP01	DP02	DP03	OF01	OF02	OF03
1 Outlets correctly fitted & sealed	N/A	N/A	N/A	N/A	N/A	N/A
1.1 Baffles fitted & secure	✓	✓	✓	✓	✓	✓
2 Gutter/roof free of Siphonix debris	✓	✓	✓	✓	✓	✓
3.1 Pipework installed as detailed	✓	✓	✓	✓	✓	✓
4.1 Downpipes installed as detailed	✓	✓	✓	✓	✓	✓
4.2 Downpipes supports solid and to a good line	✓	✓	✓	✓	✓	✓
5 Connection to underground drainage complete	✓	✓	✓	✓		✓
6 Site cleared of all debris/unused material	✓	✓	✓	✓	✓	✓
TESTING to BS EN 12056-3:2000						
The outlets were plugged and the pipe system subjected to a constant pressure of 38 mm water gauge for a period of 3 minutes	✓	✓	✓	✓	✓	✓

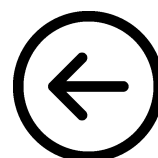
INSPECTION AND TESTING WITNESSED BY:

Name BEN CHALDS	Signed [Signature]
Company WINVIC	Date 24/04/2024

INSPECTION AND TESTING WITNESSED BY:

Name STUART REILEY	Signed S. [Signature]
For and on behalf of Siphonix Worldwide Limited	Date 24/04/2024

Cleaning and Maintenance Regimes



winvic

winvic.co.uk



Cleaning and Maintenance Regimes

This maintenance schedule for **P23-012 Wingates, Plot 3, Bolton** to be followed from PC date **01/07/2024** year on year to ensure all plant and equipment is kept within warranty.

Please keep a log of these inspections so that records can be checked should an issue arise.

Code; ✓ Blue – Recommended ✓ Red – To Maintain Warranty

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
Siphonic Roof Drainage				✓						Inspection to be carried out 4 times a year to ensure no build up of debris/leaf fall to ensure the Outlets /Baffles are kept clean.

Data Sheets



winvic

winvic.co.uk



C550 – Wingates, Plot 3 Bolton

DATA SHEETS

COMPONENTS

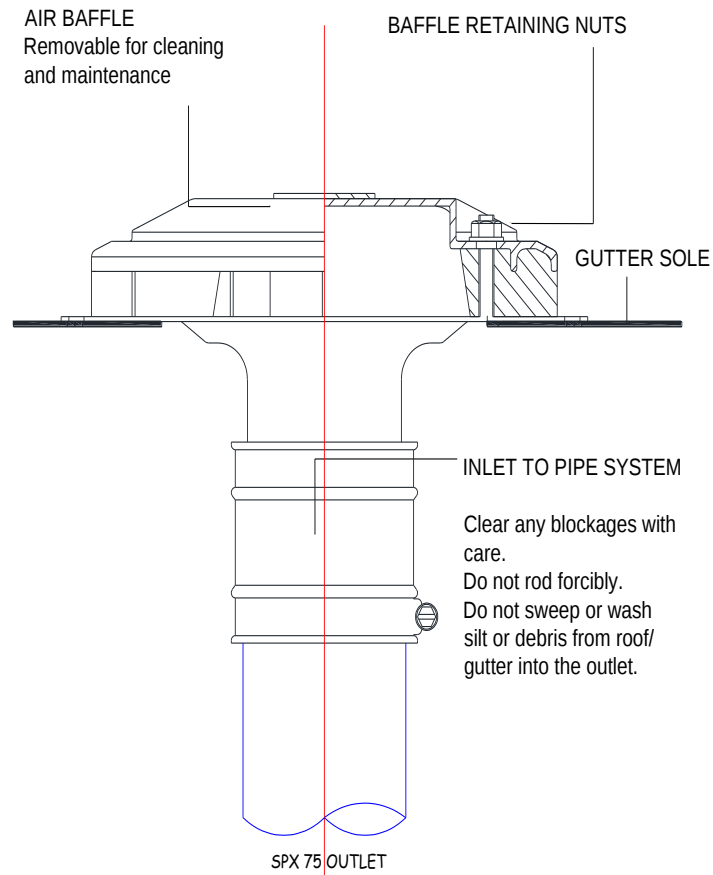
- 1. Pipework.** Black high density polyethylene (HDPE) PN 4
Joining via electro-weld sleeve or butt-welding.
- 2. Pipe Fittings** Black high-density polyethylene (HDPE).
Eccentric reducers, 45 degree bends, 45 degree
reducing branches.
Joining via electro-weld sleeve or butt-welding.
- 3. Horizontal Support System**
Galvanised mild steel slotted channel
10mm galvanised mild steel threaded rod.
10mm BZP steel set screws, nuts & washers.
BZP pipe clamps.
Proprietary purlin fixing brackets.
- 4. Vertical Support System**
BZP pipe clamps and/or slotted steel channel
section/ladder frame
- 5. Connection to Underground Drain**
EPDM coupling with Stainless Steel Bands
- 6. Outlets** Body and flange manufactured from Stainless
Steel. Air baffle/leaf guard injection-moulded in
HDPE (high density polyethylene). Joint to
pipework, via EPDM coupling.

COMPONENT SOURCE

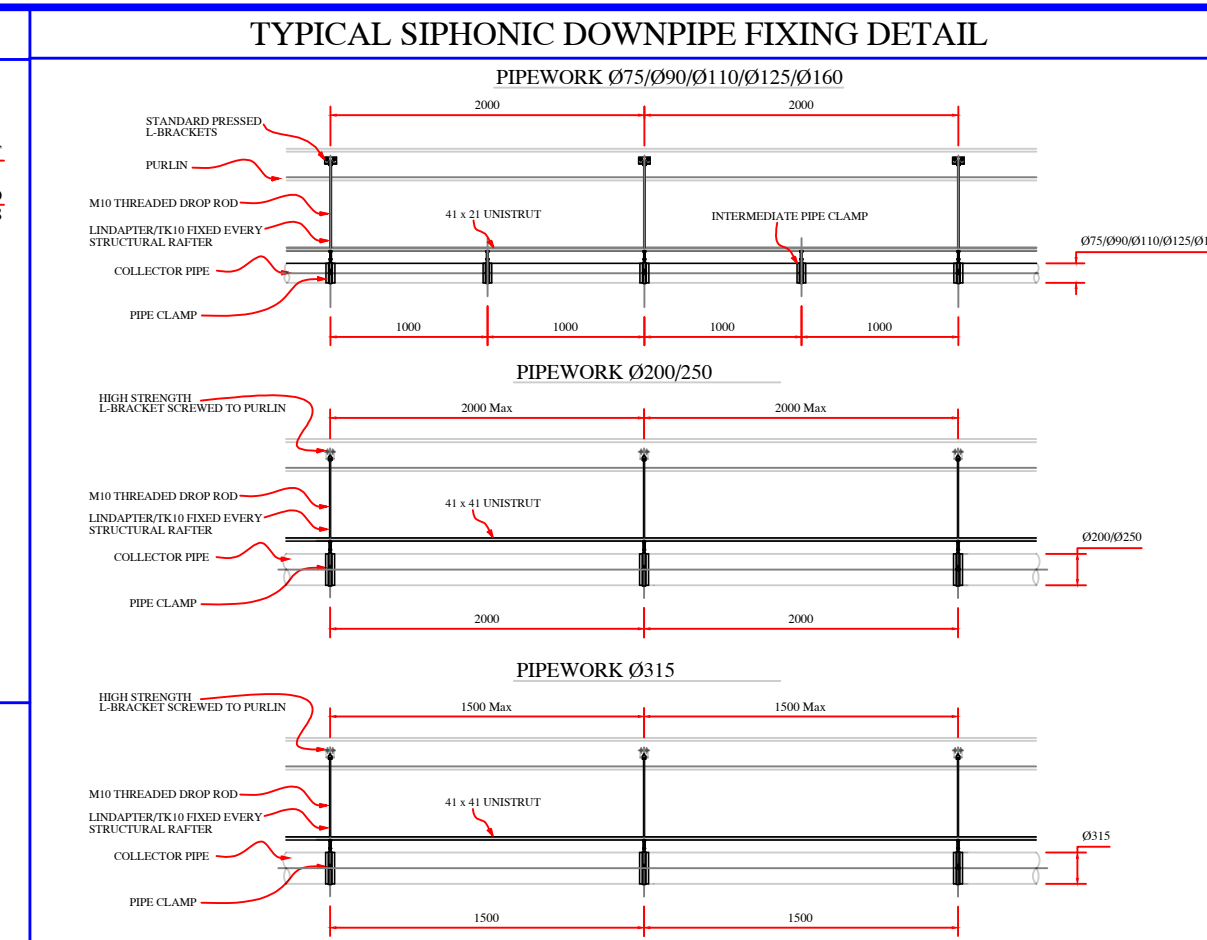
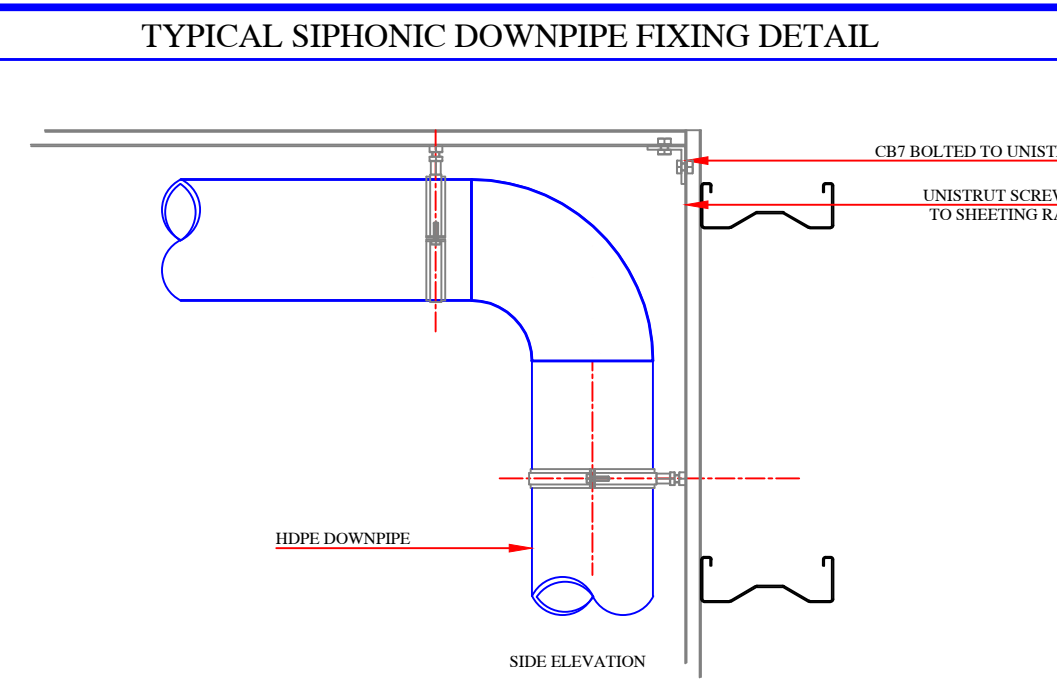
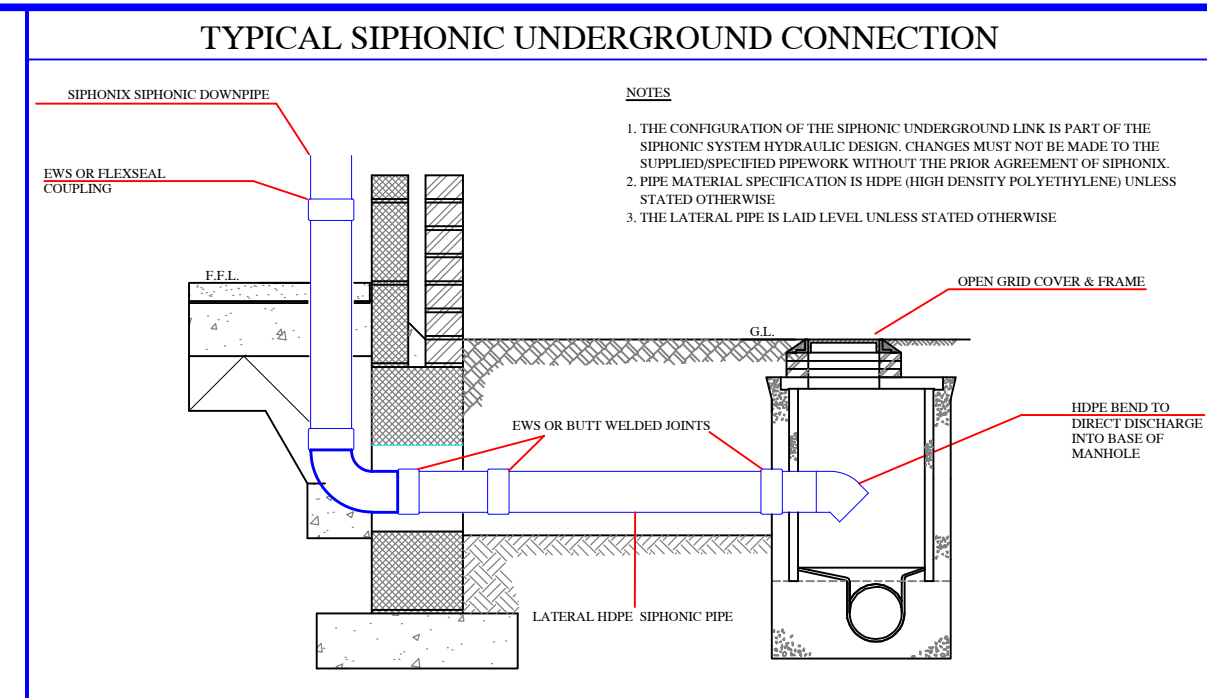
- | | |
|---|--|
| 1. Pipe | Wavin-Ebero Pipe Systems Ltd,
Dronfield Tel: 01246 292448 |
| 2. Pipe Fittings | Akatherm International BV, Panningen
The Netherlands Tel: 00 31 77 3088650 |
| | Wavin –
Ebero Pipe Systems Ltd
Dronfield Tel: 01246 292448 |
| 3. Roof Outlets | Siphonix Worldwide Ltd
Tel: 01142 431033 |
| 4. Metal Fixings | First Fix Supplies, Sheffield Tel: 0114 2617023 |
| 4. Coupling to Outlets &
Underground drain | Flex-seal Ltd Barnsley. Tel: 01226 340888. |

SIPHONIX WORLDWIDE SIPHONIC ROOF DRAINAGE OUTLET MAINTENANCE

1. Clean any debris from around outlet before removal of the air baffle.
2. Clean outlet and air baffle - do not sweep dirt or debris into the outlet.
3. Check the inlet to the pipe system. If blocked by silt or any debris clear carefully, do not rod forcibly.
4. Replace air baffle and retaining nuts (tighten to 5n/m only)
5. Clear and clean gutter and cart away rubbish.



SIPHONIX WORLDWIDE LTD UNIT 5, LANE, DONCASTER, DN3 3FE
TEL: 0114 2431033



NOTE :- ALL DIMENSIONS MUST BE
CHECKED ON SITE AND NOT SCALED
FROM THIS DRAWING

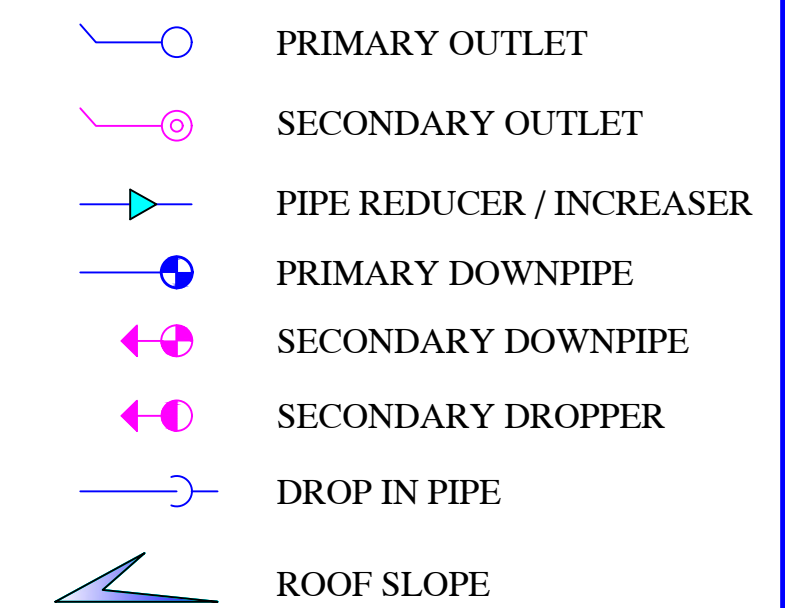
A1

PIPEWORK LOAD (KG) PER 'L' BRACKET

COLLECTOR PIPEWORK SUPPORTS
(L BRACKETS) TO BE FIXED TO PURLINS AT
MAXIMUM 2000mm CENTRES FOR ALL
PIPWOK Ø75 - Ø315

Ø75mm - 12.85kg	Ø160mm - 44.22kg
Ø90mm - 16.72kg	Ø200mm - 66.71kg
Ø110mm - 23kg	Ø250mm - 103kg
Ø125mm - 28.52kg	Ø315mm - 156kg

KEY



NOTES

BUILDING LIFE:-	25 years
CATEGORY OF RISK:-	3
RETURN PERIOD:-	1:112.5 years
RORI PRIMARY:-	0.0265 L/S/M2 - 95.4 mm/hr
RORI SECONDARY:-	0.0265 L/S/M2 - 95.4 mm/hr
OUTLET TYPE:-	
OUTLET Qty:-	

OVERFLOW UPSTAND QUANTITY AND HEIGHTS

EAVES:-	OFF	-	mm	HIGH
VALLEY:-	OFF	-	mm	HIGH

ALL OUTLETS TO BE MID BAY U.N.O.
OVERFLOWS TO BE 1 METRE OFF GRID U.N.O.

AB	AS BUILT	17.5.24	JP	KW
-03	ISSUED FOR CONSTRUCTION	9.11.23	JP	KW
-02	UNDERGROUND ROUTES UPDATED	16.11.23	JP	KW
-01	ISSUED FOR CONSTRUCTION	9.11.23	JP	KW
-02	VALLEY OUTLETS REPOSITIONED /UPDATED AS PER COMMENTS	26.10.23	JP	KW
-01	APPROVAL ISSUE	20.10.23	JP	KW
EV	DESCRIPTION	DATE	BY	CKD

© COPYRIGHT 2024

SIPHONIX WW LTD
UNIT 5
DURHAM LANE
DONCASTER
DN3 3FE

Tel : 0114 2431033
Email : design@siphonix.com

AS BUILT

ROOF DRAINAGE PLAN

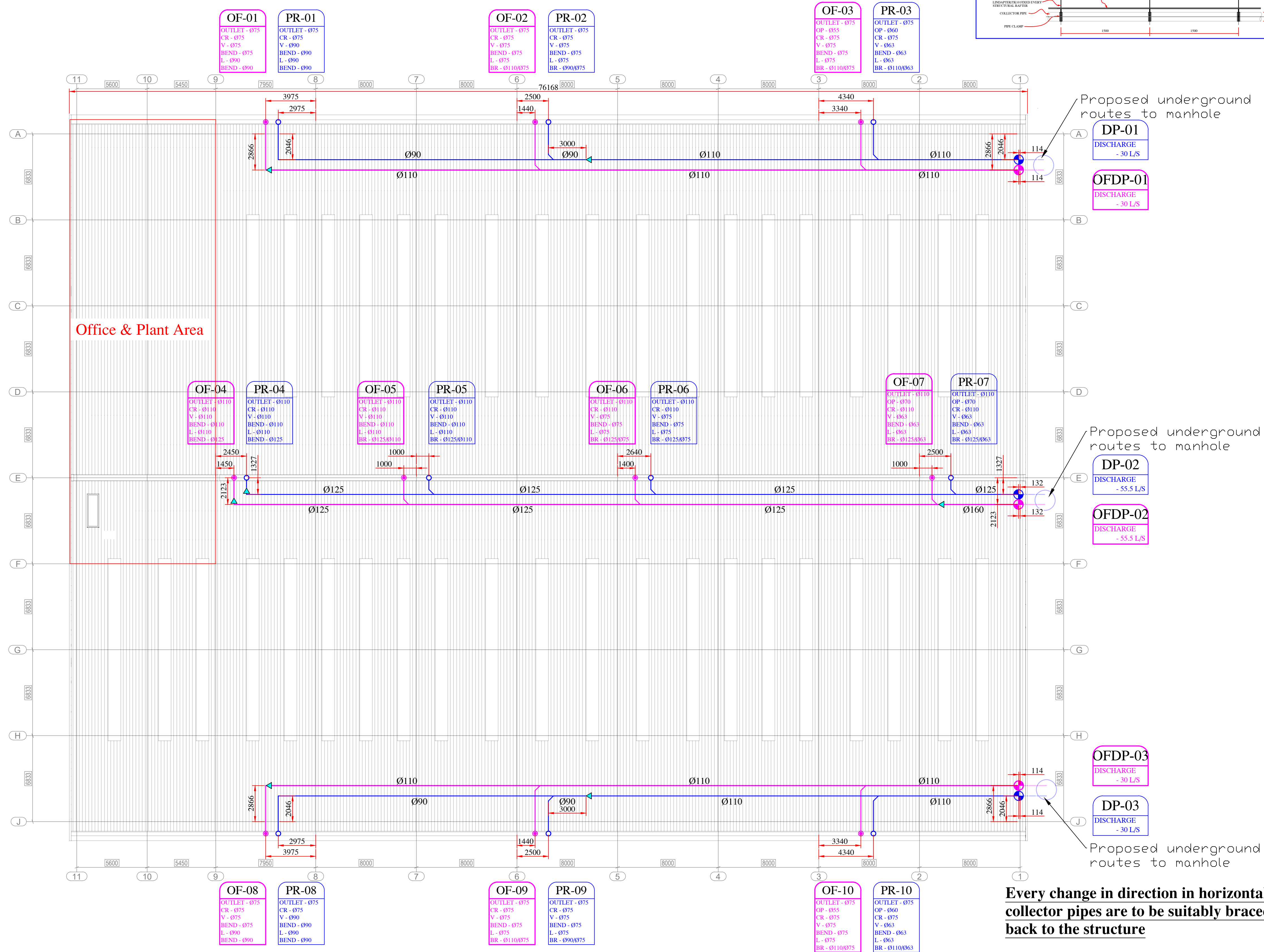
Drg No.	P23012-SPW-XX-ZZ-DR-Y-0001	Rev.	AB
DATE	20.10.23	SCALE	NTS
DRAWN	JP	CHECKED	KW

CLIENT:

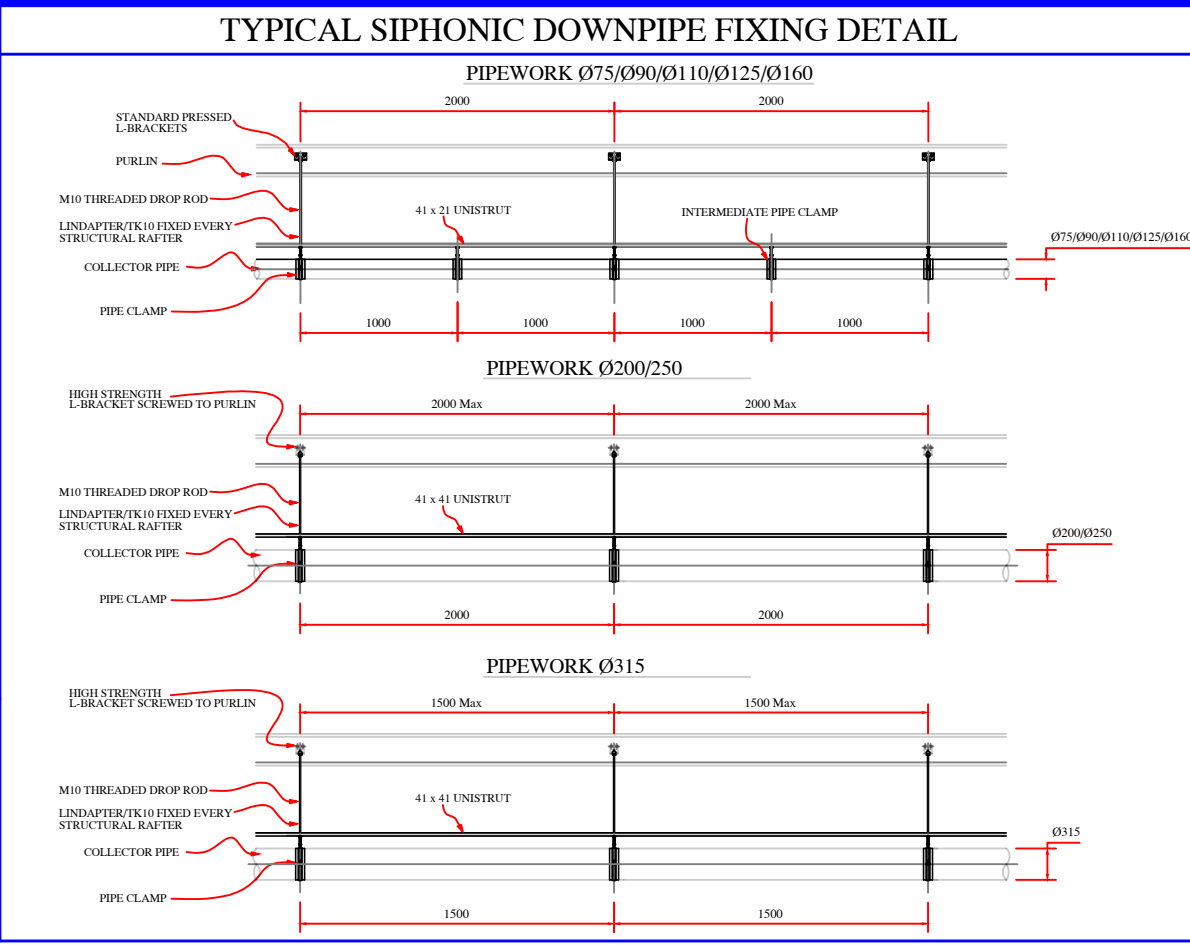
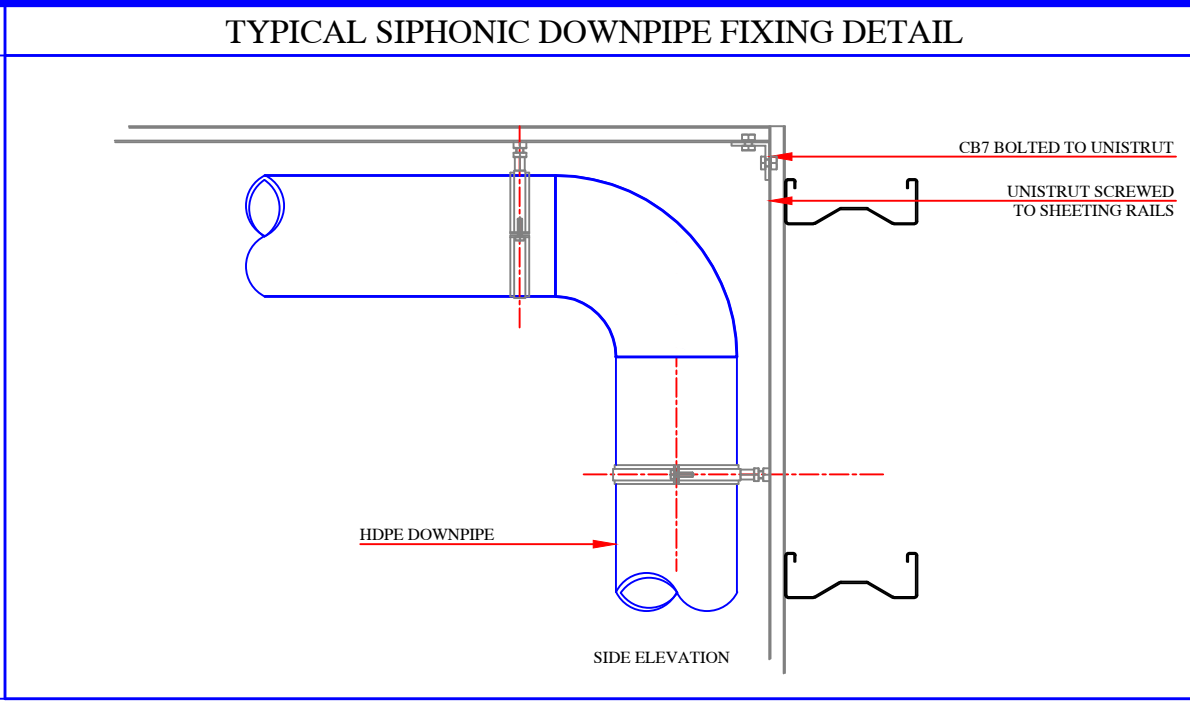
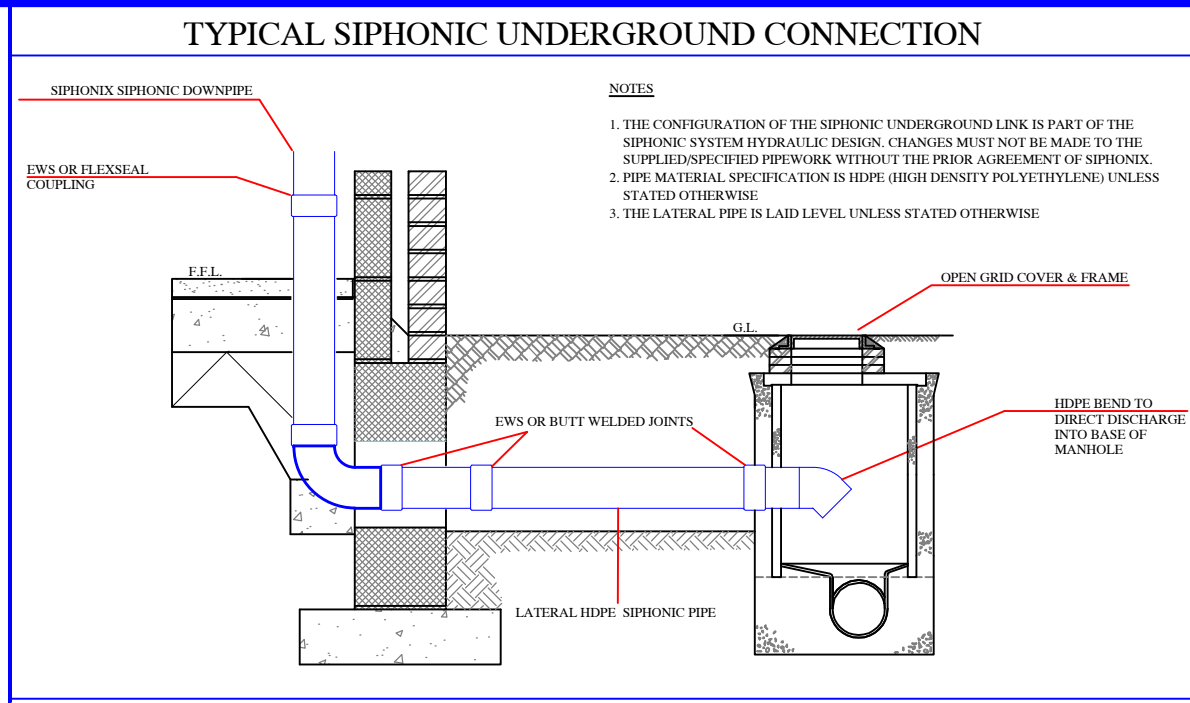
Winvic Construction

PROJECT:

Wingates Plot 3, Bolton



Every change in direction in horizontal collector pipes are to be suitably braced back to the structure



NOTE :- ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING

A1

PIPEWORK LOAD (KG) PER 'L' BRACKET

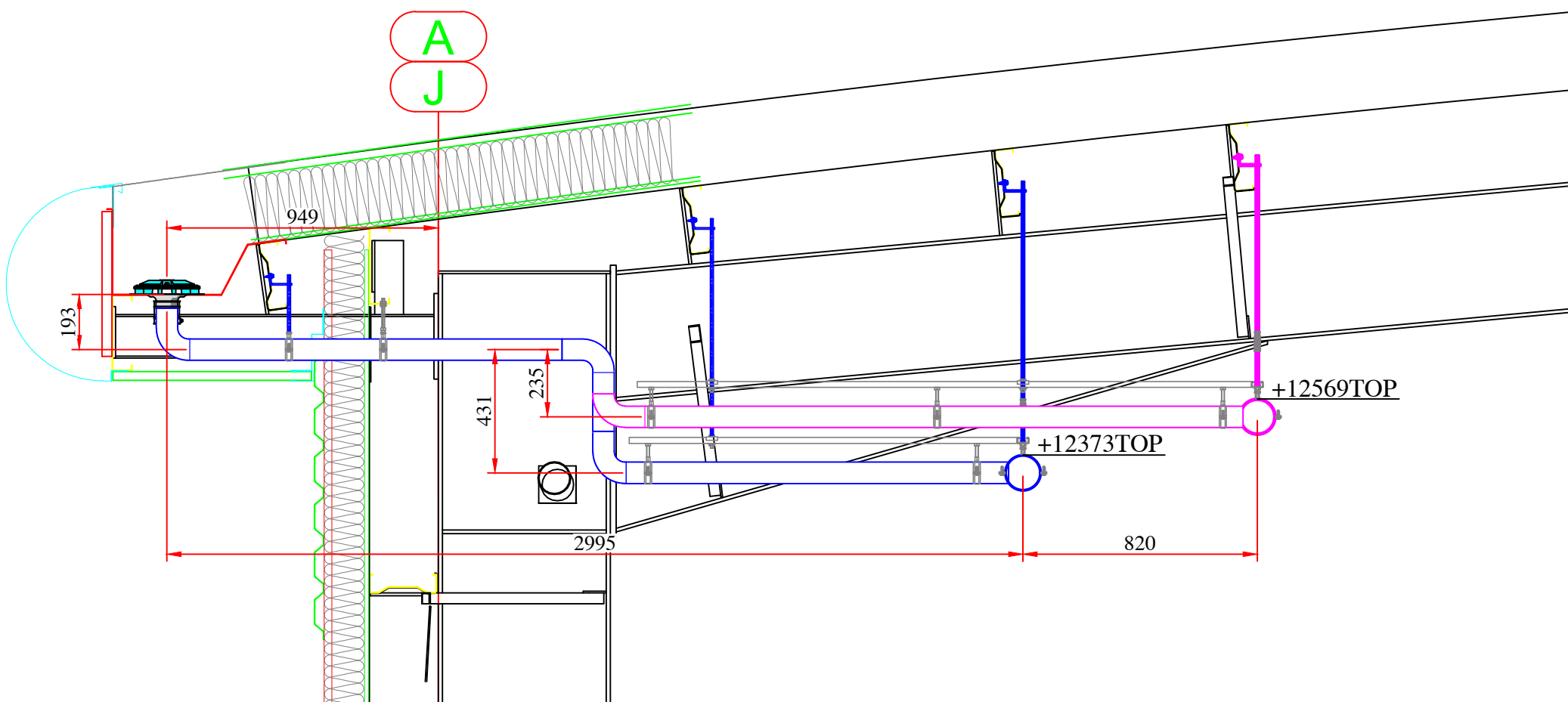
COLLECTOR PIPEWORK SUPPORTS (L BRACKETS) TO BE FIXED TO PURLINS AT MAXIMUM 2000mm CENTRES FOR ALL PIPEWORK Ø75 - Ø315

Ø75mm - 12.85kg	Ø160mm - 44.22kg
Ø90mm - 16.72kg	Ø200mm - 66.71kg
Ø110mm - 23kg	Ø250mm - 103kg
Ø125mm - 28.52kg	Ø315mm - 156kg

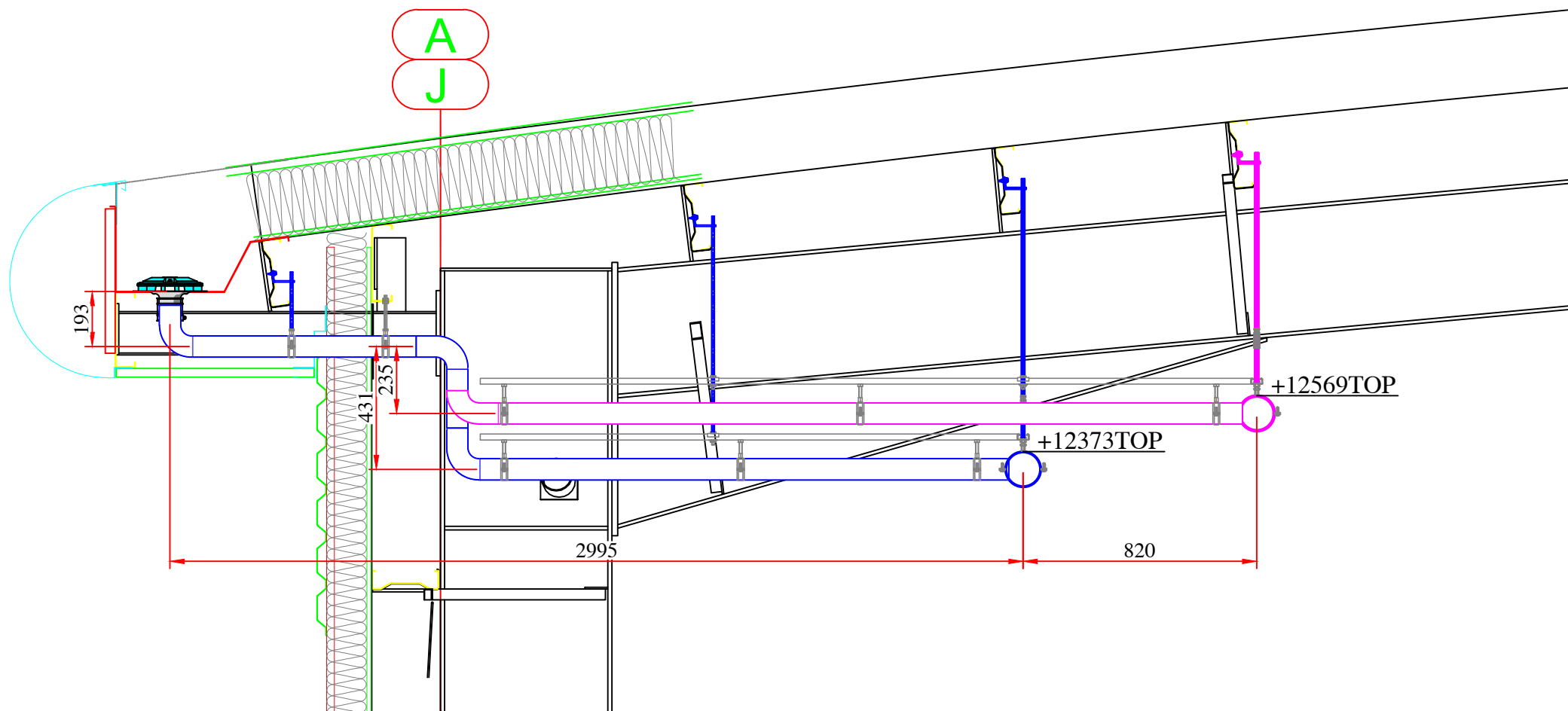
KEY

- PRIMARY OUTLET
- SECONDARY OUTLET
- PIPE REDUCER / INCREASER
- PRIMARY DOWNPIPE
- SECONDARY DOWNPIPE
- SECONDARY DROPPER
- DROP IN PIPE
- ROOF SLOPE

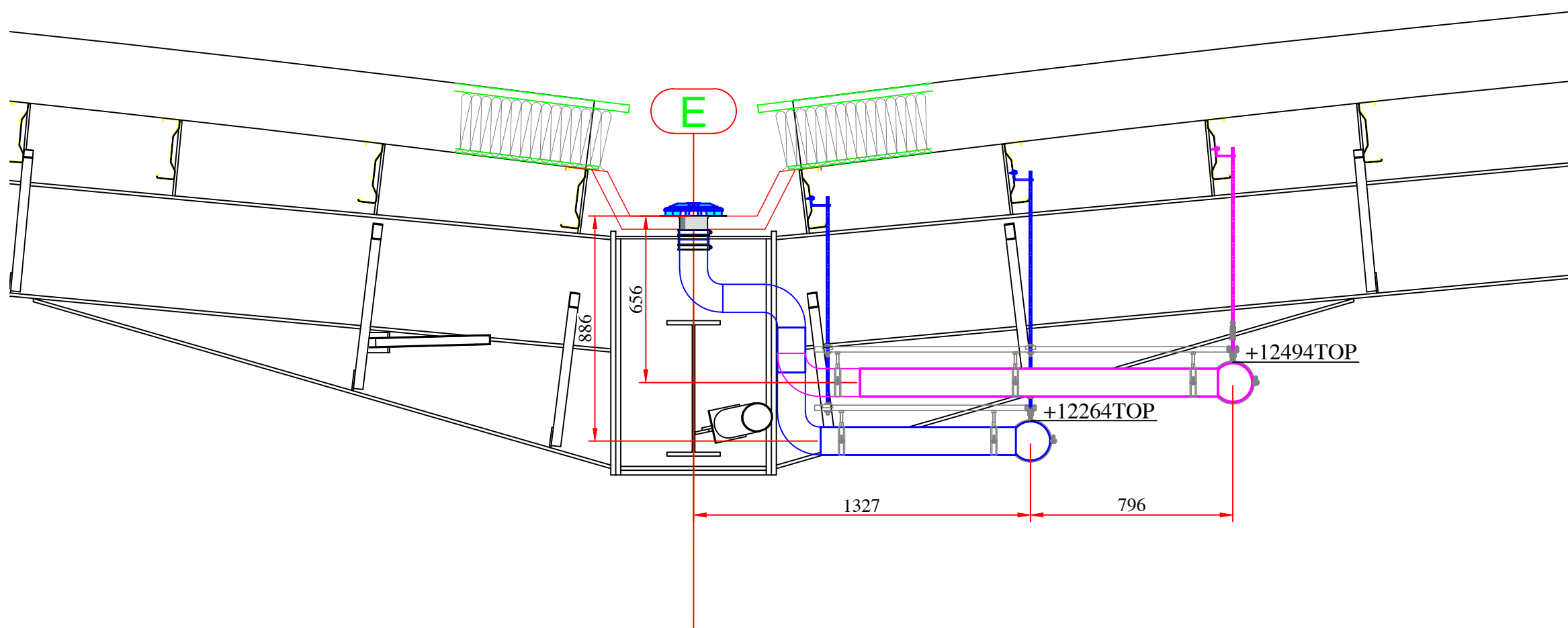
TYPICAL EAVES SECTION THROUGH GL'S 8 & 9 AND 5 & 6



TYPICAL EAVES SECTION THROUGH GL'S 2 & 3



TYPICAL VALLEY SECTION



All siphoniuc tailpipes to insulated with 25mm thermal insulation

Every change in direction in horizontal collector pipes are to be suitably braced back to the structure

NOTES

BUILDING LIFE:- 25 years

CATEGORY OF RISK:- 3

RETURN PERIOD:- 1:112.5 years

DRI PRIMARY:- 0.0265 L/S/M2 - 95.4 mm/hr

DRI SECONDARY:- 0.0265 L/S/M2 - 95.4 mm/hr

OUTLET TYPE:-

OUTLET Qty:-

OVERFLOW UPSTAND QUANTITY AND HEIGHTS

EAVES:- OFF - mm HIGH

VALLEY:- OFF - mm HIGH

ALL OUTLETS TO BE MID BAY U.N.O.

OVERFLOWS TO BE 1 METRE OFF GRID U.N.O.

AB	AS BUILT	17.5.24	JP	KW
C-01	ISSUED FOR CONSTRUCTION	9.11.23	JP	KW
P-02	NOTE ADDED FOR INSULATION / DETAIL REMOVED	26.10.23	JP	KW
P-01	APPROVAL ISSUE	20.10.23	JP	KW
REV	DESCRIPTION	DATE	BY	CKD

© COPYRIGHT 2024

siphonix

SIPHONIX WW LTD

UNIT 5

DURHAM LANE

DONCASTER

DN3 3FE

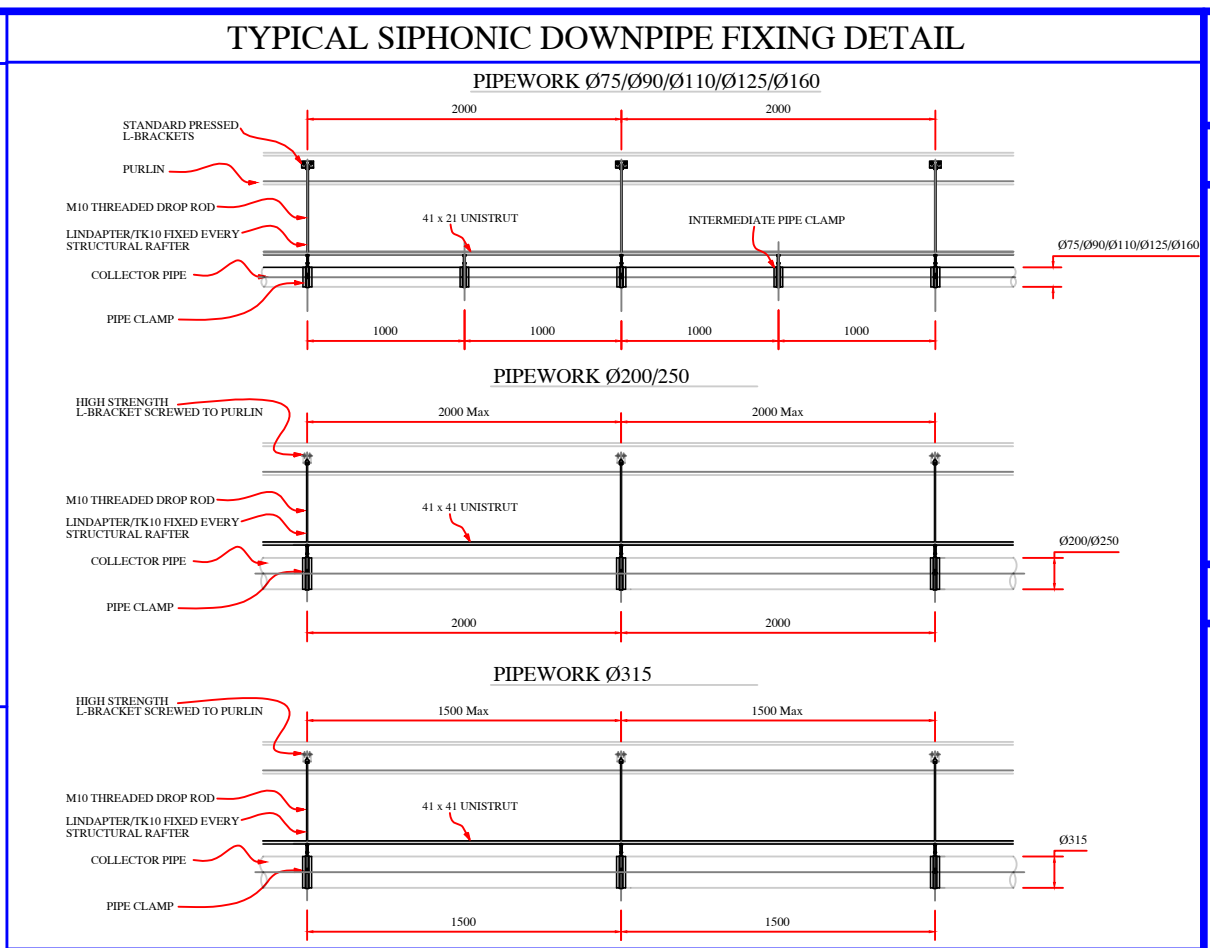
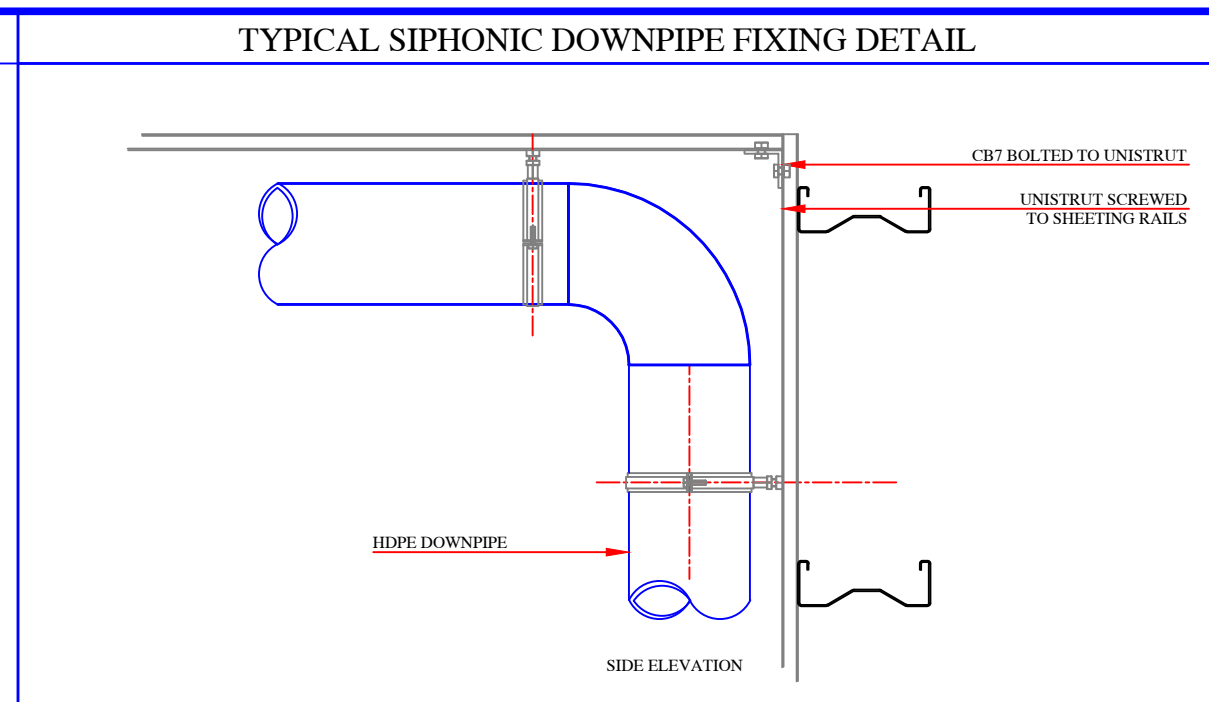
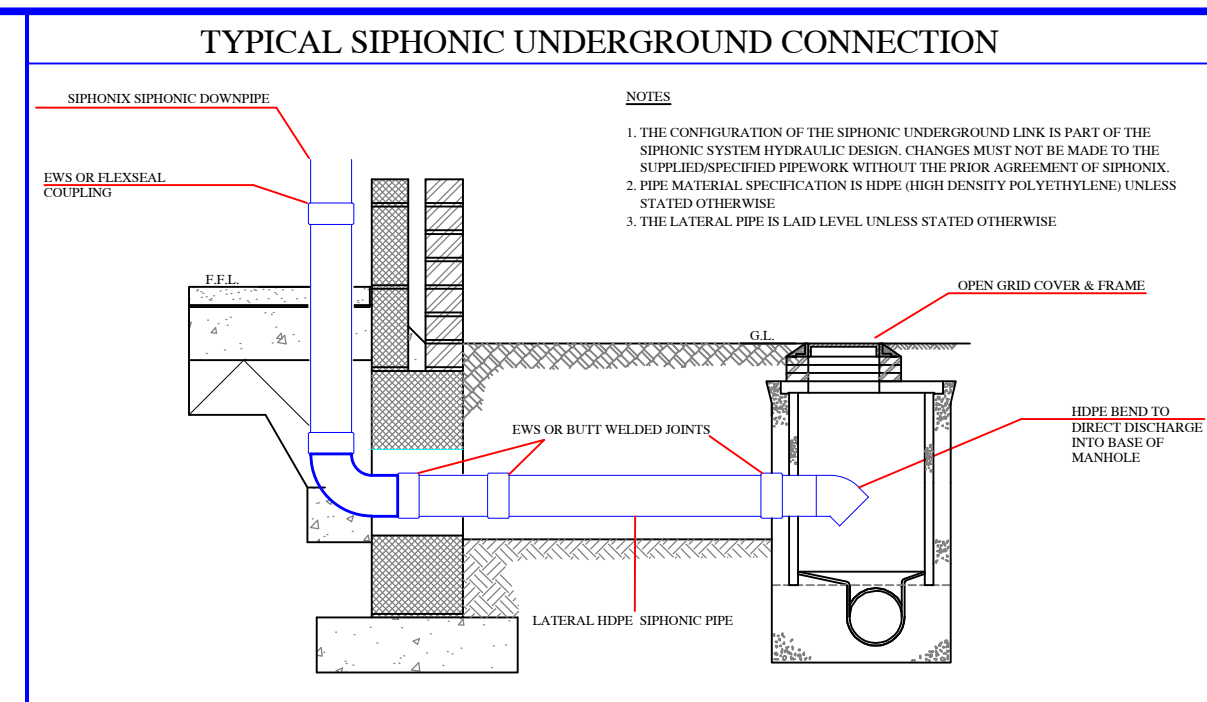
Tel : 0114 2431033

Email : design@siphonix.com

AS BUILT

SIPHONIC DRAINAGE SECTION DETAILS

Drg No.	P23012-SPW-XX-ZZ-DR-Y-0002	Rev.	AB
DATE	20.10.23	SCALE	NTS
DRAWN	JP	CHECKED	KW
CLIENT:	Winvic Construction		
PROJECT:	Wingates Plot 3, Bolton		



NOTE :- ALL DIMENSIONS MUST BE
CHECKED ON SITE AND NOT SCALED
FROM THIS DRAWING

PEWORK LOAD (KG) PER 'L' BRACKET

COLLECTOR PIPEWORK SUPPORTS
(BRACKETS) TO BE FIXED TO PURLINS AT
MAXIMUM 2000mm CENTRES FOR ALL
PIWORK Ø75 - Ø315

Ø75mm - 12.85kg	Ø160mm - 44.22kg
Ø90mm - 16.72kg	Ø200mm - 66.71kg
Ø110mm - 23kg	Ø250mm - 103kg
Ø125mm - 28.52kg	Ø315mm - 156kg

KEY	
	PRIMARY OUTLET
	SECONDARY OUTLET
	PIPE REDUCER / INCREASEER
	PRIMARY DOWNPIPE
	SECONDARY DOWNPIPE
	SECONDARY DROPPER
	DROP IN PIPE
	ROOF SLOPE

NOTES

LIDING LIFE:- 25 years
 EGOY OF RISK:- 3
 TURN PERIOD:- 1:112.5 years
 I PRIMARY:- 0.0265 L/S/M2 - 95.4 mm/hr
 I SECONDARY:- 0.0265 L/S/M2 - 95.4 mm/hr
 ILET TYPE:-
 ILET Qty:-

ERFLOW UPSTAND QUANTITY AND HEIGHTS

VES:-	OFF	-	mm	HIGH
LLEY:-	OFF	-	mm	HIGH

L OUTLETS TO BE MID BAY U.N.O.
ERFLOWS TO BE 1 METRE OFF GRID U.N.O.

AS BUILT	17.5.24	JP	KW
DP-02 & OFDP-02 DETAILS UPDATED	12.3.24	JP	KW
UNDERGROUND SIZES UPDATED AS HIGHLIGHTED	8.2.24	JP	KW
UNDERGROUND ROUTES UPDATED	16.11.23	JP	KW
ISSUED FOR CONSTRUCTION	9.11.23	JP	KW
DESCRIPTION	DATE	BY	CKD

© COPYRIGHT 2023

siphonix
SIPHONIX WW LTD
UNIT 5
DURHAM LANE
DONCASTER
DN3 3FE
Tel : 0114 2431033
Email : design@siphonix.com

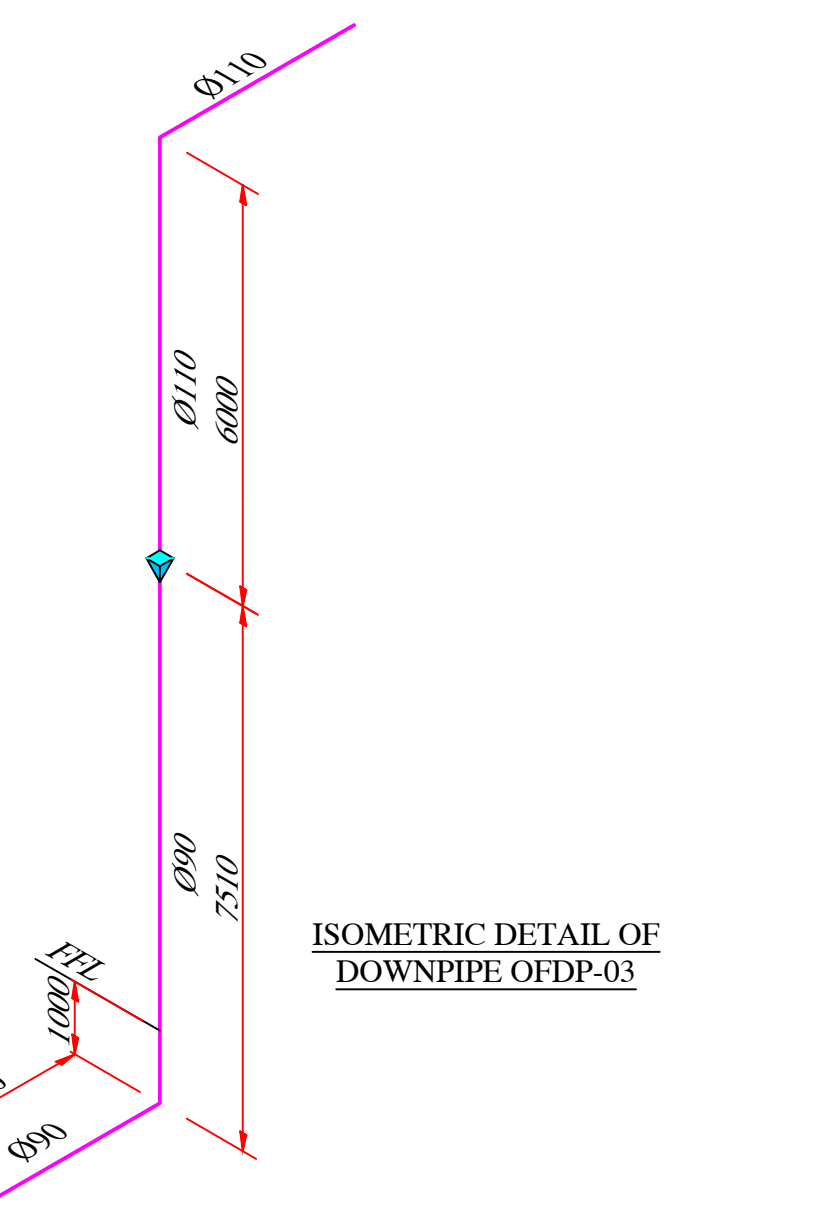
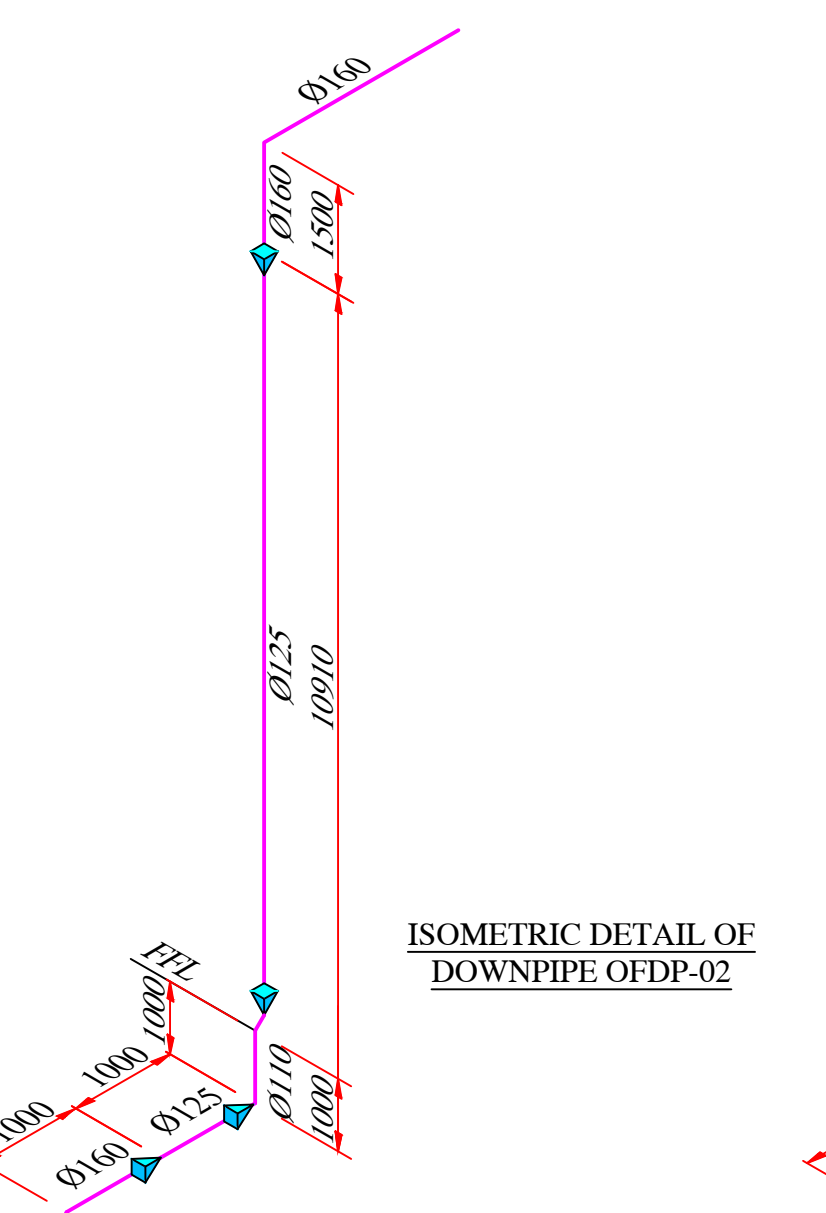
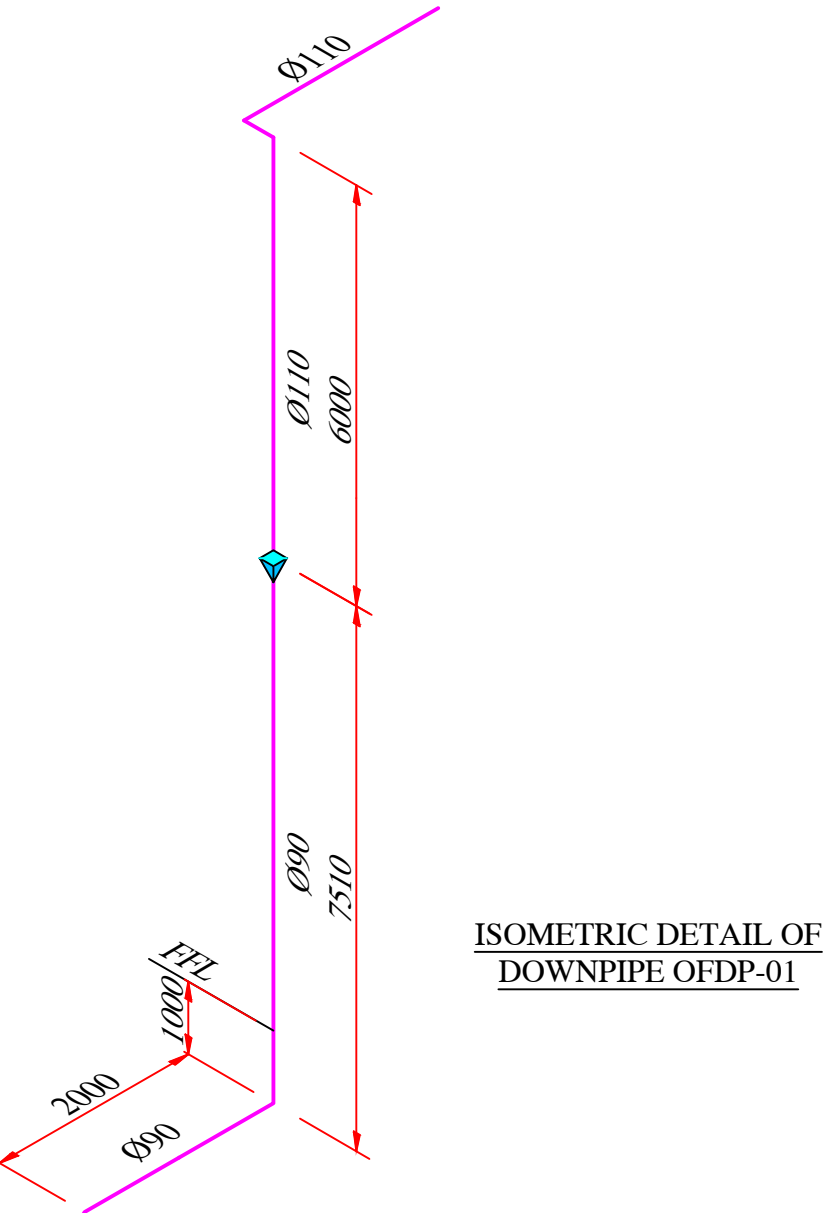
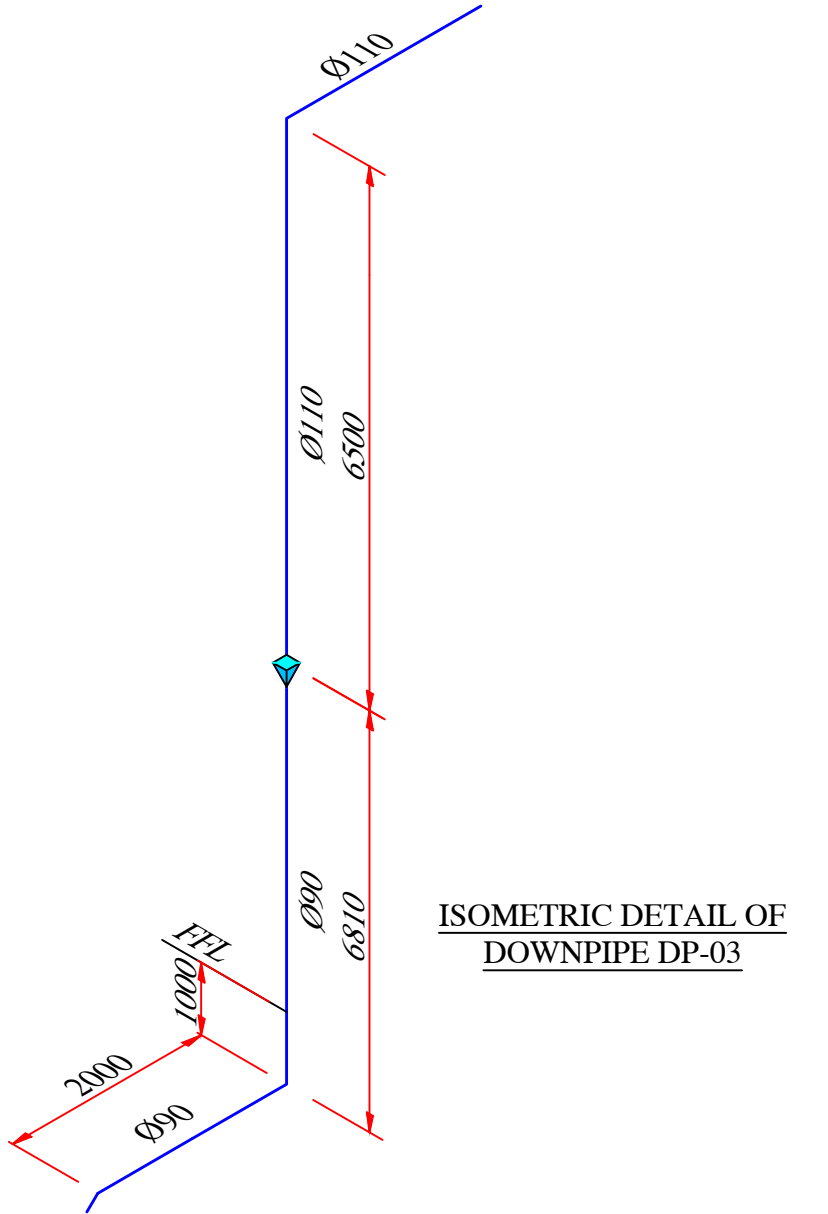
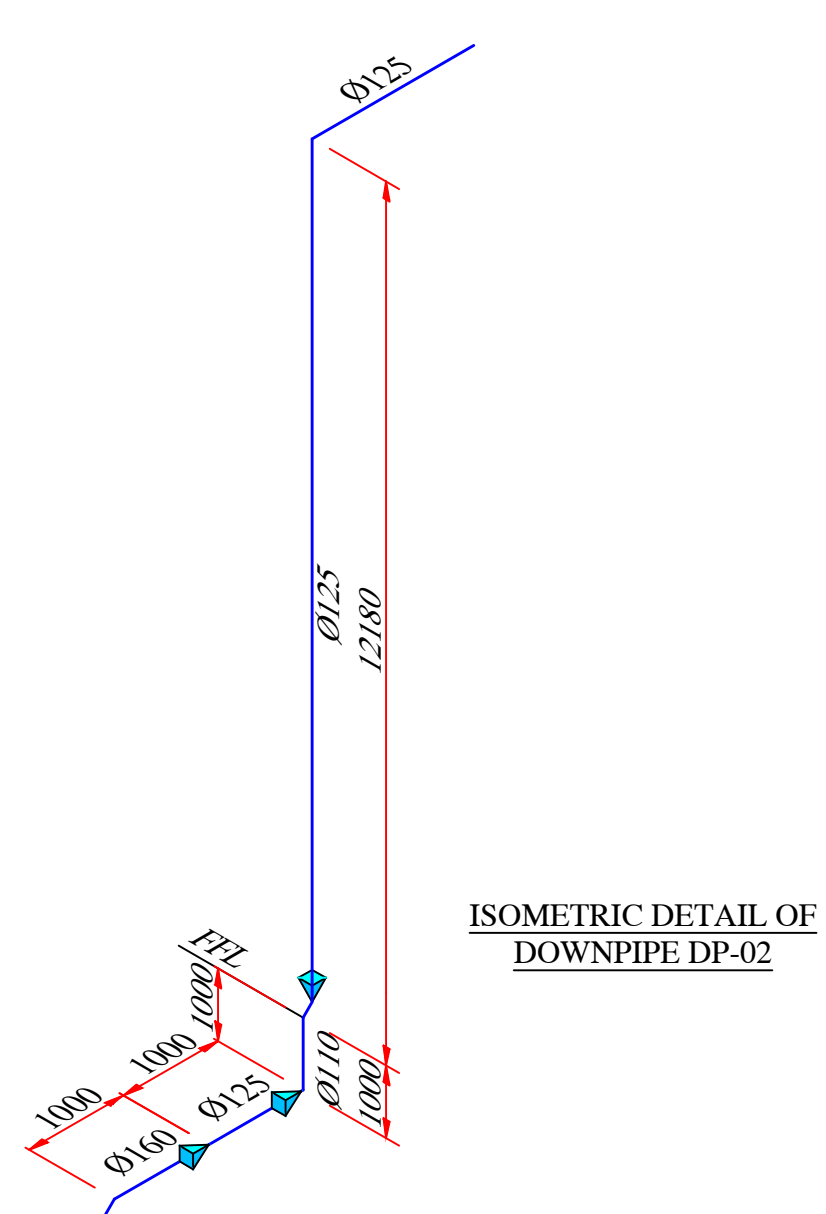
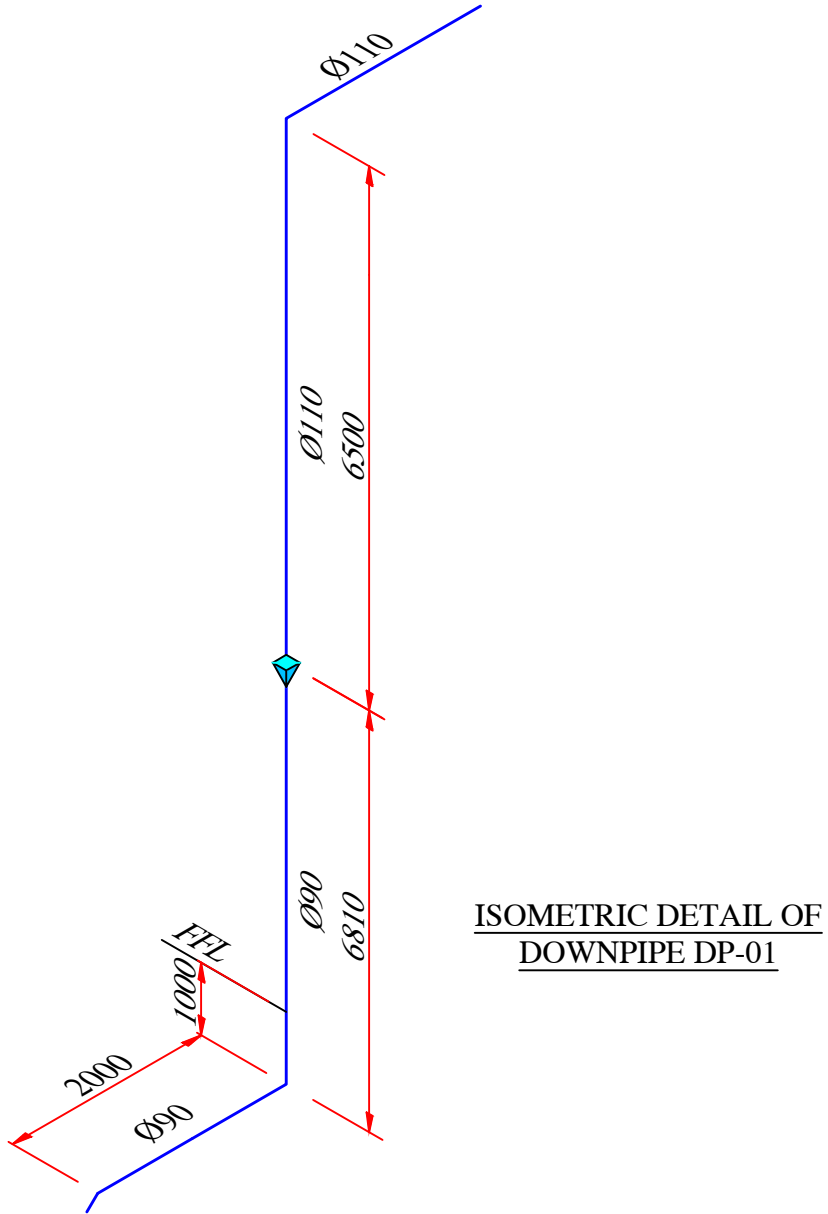
AS BUILT

SIPHONIC DRAINAGE SECTION DETAILS

No.	P23012-SPW-XX-ZZ-DR-Y-0003		Rev. AB
FE	9.11.23	SCALE	NTS
AWN	JP	CHECKED	KW

ENT: Winvic Construction

Wingates Plot 3, Bolton



Every change in direction in horizontal collector pipes are to be suitably braced back to the structure