· 2 6. 30 8. **A4** 

1A	1B	2	3A	5	6	7A	7B	7C	8A	8B	9A	9B	10
LOCAT	ΓΙΟΝ/	NOM. SIZE DESIGN LENGTH (DN) GPOUR (m) "S"		ERT (m)	JUNC	TIONS	BEN	NDS	REMARKS AND ADDITIONAL				
TERMIN	IATION	(DN) (mm)	GROUP	(m)	3	MIN	MAX	AVERAGE	QTY	TYPE	QTY	TYPE	REQUIREMENTS

- NOTES

  1. Construction in trench unless stated otherwise.
- 2. Column 3A: alternative pipe trench and bedding combinations are described in Appendix 5/1.
- 3. Column 3A: where a particular bed is excluded from any one group, the group reference is followed by the suffix X and the excluded bed type, e.g. 3XD.
- 4. Column 6:"S" denotes where the length of pipe is in side slopes of cutting or embankment.
- 5. Column 10:"A"denotes where additional requirements are stated in Appendix 5/1. "B" denotes where backfilling requirements are described in Appendix 5/1. "H"denotes where choice of permitted pipe types may be affected by hydraulic design considerations, the basis of which are described in Appendix 5/1.

Detail	Ву	Date
	Detail	Detail By

### Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	$\overline{V}$
	As constructed	
Date: Sept - 2017	Other	





Digitally signed by Simon Cartledge Date: 2019.06.07

Michael Sri C Digitally signed by Mike Smith Date: 2019.07.31 11:58:54 +01'00'



Project Name

**Highway Works Details** Series 500

Drawing Title

Carrier Drain Pipe Schedules (Specified Design Group)

[	Grid reference :		
ſ	Original Drawing Size:	۱4	Dimensions: mm
[	Scale: NA		Copyright O Amey SCC

Drawing No 05.01 C0

100	٦
	-
	$\exists$
20	$\exists$
40	_
30	_
20	_
10	
0	
•	<b>A4</b>

1A	1B	2	3B	4	5	6	7A	7B	7C	8A	8B	9A	9B	10
LOC	ATION/	NOM. SIZE	PARTIC.	BED	LENGTH	"S"	DEPTHS	S TO INV	ERT (m)	JUNC	TIONS	BEN	NDS	REMARKS
TERM	INATION	(DN) (mm)	PIPE	TYPE	(m)	3	MIN	MAX	AVERAGE	QTY	TYPE	QTY	TYPE	TEL WITH
											-			

- 1. Construction in trench unless stated otherwise.
- 2. Column 3B: abbreviations:-VCL Vitrified Clay (Pipe Class L), VC95 Vitrified Clay (Pipe Class 95), VC120 Vitrified Clay (Pipe Class 120), VC160 Vitrified Clay (Pipe Class 160), VC200 Vitrified Clay (Pipe Class 200), PC120 Precast Concrete (Pipe Class 120), UPVC Unplasticized PVC,

Other abbreviations described in column 10.

- 3. Column 6; "S" denotes where the length of pipe is in side slopes of cutting or embankment
- 4. Column 10:"A" denotes where additional requirements are stated in Appendix 5/1. "B" denotes where backfilling requirements are described in Appendix 5/1
- 5. Column 4: see Highway Construction Details Drg.No.F1,(MCHW3.1)

Rev	Detail	Ву	Date				
	Revision	S					
Orig	inal Version	Preli	minary	П			
		For c	omment	П			
Drav	vn: RL	For t	ender	П			
Desi	gn: RL	For o	onstruction	$\overline{A}$			

Date: Sept - 2017

Digitally signed by Simon Cartledge Date: 2019.06.17 10:16:15 +01'00' Approved by:- (Drawing NOT approved if this box is empty)

As constructed

Michael Srii Digitally signed by Mike Smith
Date: 2019.07.31 12:15:18 +01/00'

Other



Project Name

**Highway Works Details** Series 500

Drawing Title

Carrier Drain Pipe Schedules (Particular Design)

Grid reference :	
Original Drawing Size: A4	Dimensions: mm
Scale: NA	Copyright © Amey SCC

Drawing No 05.03

11A	11B	12	13A	15	16	17A	17B	17C	18A	18B	19A	19B	20	21	22
LOCATION/		NOM. SIZE	DESIGN GROUP	LENGTH		DEPTHS	DEPTHS TO INVERT (m)			JUNCTIONS (Preformed)		BENDS (Preformed)		TSURFACE	REMARKS AND ADDITIONAL
TERMI	INATION	(DN) (mm)	/TYPE	(m)	TYPE	MIN	MAX	AVERAGE	QTY	TYPE	QTY	TYPE	EDGE TYPE	LAYER	REQUIREMENTS
					,										
					,										
					,						,				

- 1. Alternative pipe and trench combinations are described in Appendix 5/1.
- 2. Column 13A: where a particular trench condition is excluded from any one group the group reference is followed by the suffix X and the excluded bed type e.g. 4XG.
- 3. Column 16: Type C filter material is specified in Appendix 5/1.
- 4. Column 20: Pavement edge types are shown on Highway Construction Details Drg. No. B15.
- 5. Column 21: Describes surface treatment i.e. "T150" denotes "topsoil 150mm thick".
- 6. Column 22: "M" denotes that a mesh requirements is specified in Appendix 5/1 "G" denotes that a geotextile membrane requirement is specified in Appendix 5/1. "L" denotes that lightweight aggregate is specified in Appendix 5/1.

Rev	Detail	Ву	Date		
	Revisions	5			
Orig	inal Version	Prelii	minary	Γ	
		For comment			
Drav	vn: RL	For tender			

	For comment	
Drawn: RL	For tender	
Design: RL	For construction	~
	As constructed	
Date: Sept - 2017	Other	

Michael Sri (Digitally signed by Mike Smith Date: 2019.07.31 12:20:20 +01'00



C0

Project Name

**Highway Works Details** Series 500

Drawing Title

Filter Drain Pipe Schedules (Specified Design Groups)

Grid reference :	
Original Drawing Size: A4	Dimensions: mm
Scale: NA	Copyright O Amey SCC

Drawing No 05.05

11A 11B 12 13B 14 15 16 17A 17B 17C 18A 18B 19A 19B 20 **JUNCTIONS BENDS** DEPTHS TO INVERT (m) NOM. **TRENCH** (Preformed) (Preformed) **PARTIC** .ENGTH LOCATION/ SIZE FILTER PAVEM'T /BED EDGE TYPE **TERMINATION** (DN) PIPE (m) **TYPE** TYPE **TYPE** MAX **AVERAGE** QTY **TYPE** OTY (mm) 20 40 30 50 **A4** 

21

SURFACE

LAYER

22

**REMARKS AND** 

**ADDITIONAL** 

REQUIREMENTS

1. Column 16: Type C Filter material is specified in Appendix 5/1.

2. Column 13B: abbreviations:-

VC160 Vitrified Clay (Pipe Class 160), VC200 Vitrified Clay (Pipe Class 200), UPVC Unplasticized PVC

- 3. Column 14: Trench types are shown on HCD Dra. No. F2.
- 4. Column 20: Pavement edge types are shown on HCD Drg. No. B15.
- 5. Column 21: Describes surface treatment i.e. "T150" denotes "topsoil 150mm thick".
- 6. Column 22: "M" denotes that a mesh requirements is specified in Appendix 5/1 "G" denotes that a geotextile membrane requirement is specified in Appendix 5/1.
- "S" denotes that sub-base materials are described in Appendix 5/1.
- "L" denotes that lightweight aggregate is specified in Appendix 5/1.

Rev	Detail	Ву	Date	
	Revisions	5		
Orig	inal Version	Preli	minary	
		For o	omment	
Drav	vn: RL	For t	ender	
Desi	gn: RL	For o	onstruction	~

Date: Sept - 2017

Date: 2019.06.18 Approved by:- (Drawing NOT approved if this box is empty

As constructed

Other Digitally signed by

Michael Sri C Digitally signed by Mike Smith Date: 2019.07.31 12:25:08 +01'00'



Project Name

**Highway Works Details** Series 500

Drawing Title Filter Drains

Filter Drain Pipe Schedules (Particular Design)

Grid reference :	
Original Drawing Size: A4	Dimensions: mm
Scale: NA	Copyright O Amey SCC

Drawing No 05.07

않. 6. 30 20 

31A	31B	32	33	34	35	36	37A	37B	38	39A	39B	39C	40	
LOC	LOCATION/ ERMINATION	ON COOLD [	DESIGN PIPE DIA.	PIPE DIA.	LENGTH (m)	APPLIC'N TYPE	HEIGHT (mm)	PIPE SURROUND	BACKFILL/ FILTER	MARKER TAPE	DEPTH (m)			REMARKS AND ADDITIONAL
TERM	INATION	GROOF	(MIN) (mm)	(111)	TIFE	(11111)	BURROUNL	MATERIAL	TAFL	MIN	MAX	AVERAGE	REQUIREMENTS	
					,			,						

# **NOTES**

- 1. Fin drains have no entry in cols.39
- 2. Column 33: no entry for drain type 5.
- 3. Column 35: types are shown on Highway Construction Details Drawings series B Nos. 2 to 4, 6, to 13 or are specific references described in
- Appendix 5/4. 4. Column 36: as defined on Highway Construction Details Drg. Nos. F18, F19, F20.
- 5. Pipe surround material is specified in Appendix 5/4.
- 6. Filter material Type C is specified in Appendix 5/1 for narrow filter drains.

Rev	Detail	Ву	Date

# Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	П
Design: RL	For construction	⇗
	As constructed	
Date: Sept - 2017	Other	П



Digitally signed by Simon Cartledge Date: 2019.06.03 17:54:06 +01'00' Approved by:- (Drawing NOT approved if this box is empty

Michael Sril Digitally signed by Mike Smith Date: 2019.07.31 12:30:53 +01'00'



C0

Project Name

**Highway Works Details** Series 500

Drawing Title

Fin and Narrow Filter Drains-Pipe Schedules

Grid reference :					
Original Drawing Size :	A4 Dimensions: mm				
Scale: NA	Copyright C Amey SCC				

Drawing No 05.09

20

51	52	53	54A	54B	54C	55A	55B	56	57	58	59	60	61
LOCATION	REF.	TYPE &		INVERT D		BRAI 1	NCHES 2	BASE SLAB	COVER	DEPTH TO	BENDS		REMARKS AND
LOCATION	No.	SUB- TYPE	INLET DIA.	OUTLET DIA/ LEVEL	CURVED INVERT ANGLE	DIA/ LEVEL	DIA/ LEVEL	LEVEL	REF/ LEVEL	INV./ BASE SLAB	IN ADJ. PIPE	LADDER	ADDITIONAL REQUIREMENTS

- NOTES

  1. Dimensions are in millimetres. Levels are in
- 2. Column 52: Reference numbers are explained in Appendix 5/1.
- 3. Column 53: Types references are listed in Appendix 5/1.
- 4. Column 56: refers to catchpits only
- 5. Column 57: References to covers and frames are scheduled in Appendix 5/1.
- 6. Column 59: "Yes" advises of relevant entry in pipe schedules.

Rev	Detail	Ву	Date

# Revisions

Original Version	Preliminary	П
-	For comment	П
Drawn: RL	For tender	П
Design: RL	For construction	<b>✓</b>
	As constructed	
Date: Sept - 2017	Other	П



Digitally signed by Simon Cartledge Date: 2019.06.18 11:33:06 +01'00' Approved by:- (Drawing NOT approved if this box is empty)

Michael Spiri Digitally signed by Mike Smith Date: 2019.07.31 12:50:12 +01'00'



Project Name

**Highway Works Details** Series 500

Drawing Title

Manholes and Catchpits-Chamber Schedules

Grid reference :	
Original Drawing Size: A4	Dimensions: mm
Scale: NA	Copyright © Amey SCC

Drawing No 05.11

8	_
	_
0	
20	
40	
30	
20	_
10	=
_	$\equiv$
_	
•	A4

71	72	73	74	75A	75B	76	77	78
LOCATION	REF.	DESIGN GROUP	T	OUTLET		POT INT.	GRATING	REMARKS AND ADDITIONAL
20020	No.	/TYPE	OR UT	DIA	DEPTH TO INV.	DEPTH	REF. /SIZE	REQUIREMENTS
							,	
		<u> </u>		l				

- 1. Dimensions are in millimetres. Levels are in metres.
- 2. Column 73: Type references are defined in Appendix 5/1.
- 3. Column 74: T Trapped UT Untrapped
- 4. Column 75B:Depth measured from lowest point on paved area immediately adjacent to grating
- 5. Column 77: References to grating and frame are scheduled in Appendix 5/1.

₹ev	Detail	Ву	Date

# Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	$\overline{}$
	As constructed	
Date: Sept - 2017	Other	

Checked b



Digitally signed by Simon Cartledge Date: 2019.06.03 18:00:31 +01'00'

Approved by:- (Drawing NOT approved if this box is empty



ffordshire



hire gov uk

www.amey.co.ul

C0

Project Name

Highway Works Details Series 500

Drawing Title

Street Gullies -Gully Schedules

Grid reference :		
Original Drawing Size :	A4	Dimensions: mm
Scale: NA		Copyright C Amey SCC

Drawing No 05.13

--

g -유. 30 20 **A4** 

81	82	83	84	85A	85B	85C	86	87	88A	88B	89	
LOCATION	TYPE	NOM. SIZE		LENGTH	NOM. SIZE LENGTH		DEPTHS TO INVERT (m)		STATED "S" BED	TERMINATION		REMARKS AND
LOCATION	1112	(DN) (mm)	(m)	MIN	MAX	AVERAGE		TYPE	1	2	ADDITIONAL REQUIREMENTS	

#### NOTES

- 1. Construction in trench unless stated otherwise.
- 2. Type references are described in Appendix
- 3. Column 86: denotes the stated length to be in side slope of cutting or embankment.
- 4. Column 88: indicates duct end condition: "M" denotes plug and marker block, "D" denotes build into drawpit (+ref.no.)
- 5. Column 88: invert levels of duct ends (as second line entry) show where precise alignment is required.

Rev	Detail	Ву	Date

# Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	~
	As constructed	
Date: Sept - 2017	Other	





Digitally signed by Simon Cartledge Date: 2019.06.18



Michael Srin C Digitally signed by Mike Smith Date: 2019.07.31 12:52:52 +01'00'



Project Name

**Highway Works Details** Series 500

Drawing Title

Service Ducts - Schedules

Grid reference :		
Original Drawing Size :	A4	Dimensions: mm
Scale: NA		Copyright C Amey SCC

Drawing No	Rev
05.21	C0

100	$\neg$
	_
	_
	_
20	_
40	_
30	_
20	_
10	
0 _	且
•	A4

91	92	93	94	95	96	97	98A	98B	99
LOCATION	REF	REF DES.GP.	STATED	COVER AND	COVER LEVEL	DEPTH TO UPPERMOST SURFACE OF	BUILD-IN DUCTS		REMARKS AND ADDITIONAL
LOCATION	No.	/TYPE	CONSTR.	FRAME REF.	(A.O.D.) (m)	BASE SLAB (m)	STRAIGHT No./DIA.	BENDS No./DIA.	REQUIREMENTS
						,			

- 1. Design Group and Type references are listed in Appendix 5/2 and referenced to detail drawings.
- 2. Cover and frame references are scheduled in Appendix 5/2.
- 3.Column 98B denotes bends required on drawpit detail drawing.

≷ev	Detail	Ву	Date
	5		

#### Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	$\overline{}$
	As constructed	
Date: Sept - 2017	Other	

Checked b



Digitally signed by Simon Cartledge Date: 2019.06.03 18:06:40 +01'00'

oved by:- (Drawing NOT approved if this box is



Digitally signed by Mike Smith Date: 2019.07.31 12:54:12 +01'00'



www.staffordshire.gov.uk

www.amey.co.ul

C0

Project Name

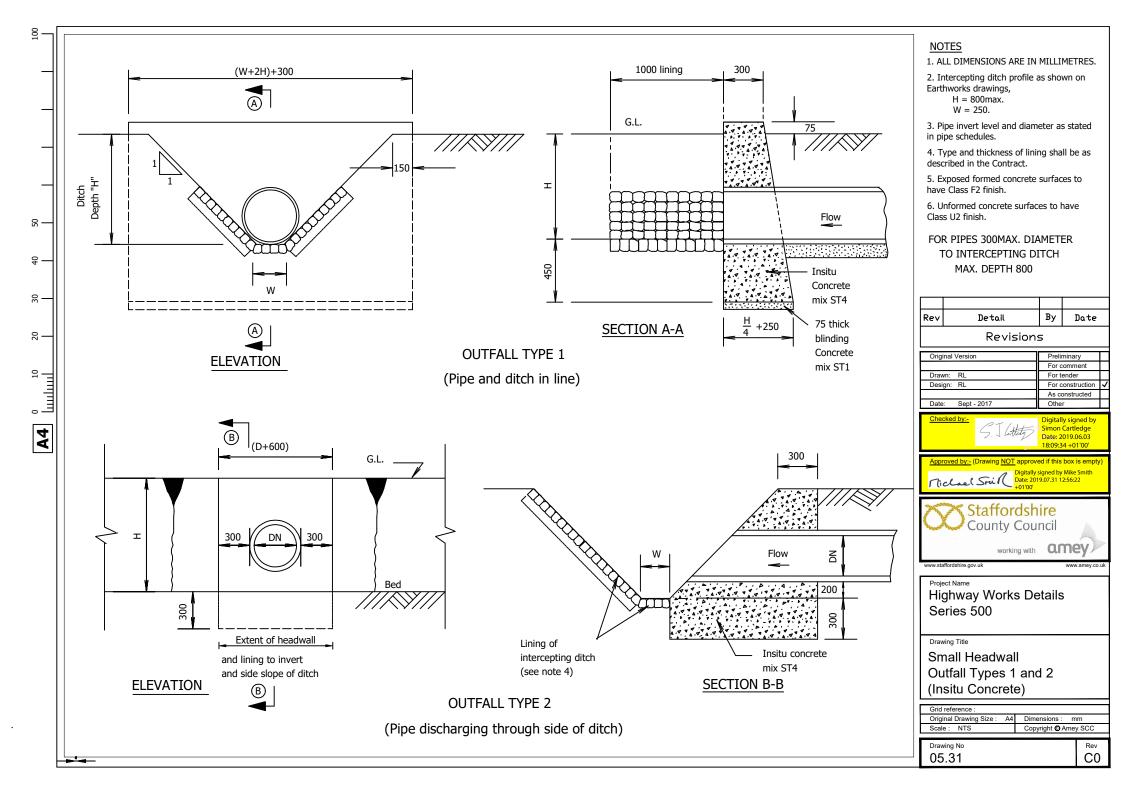
Highway Works Details Series 500

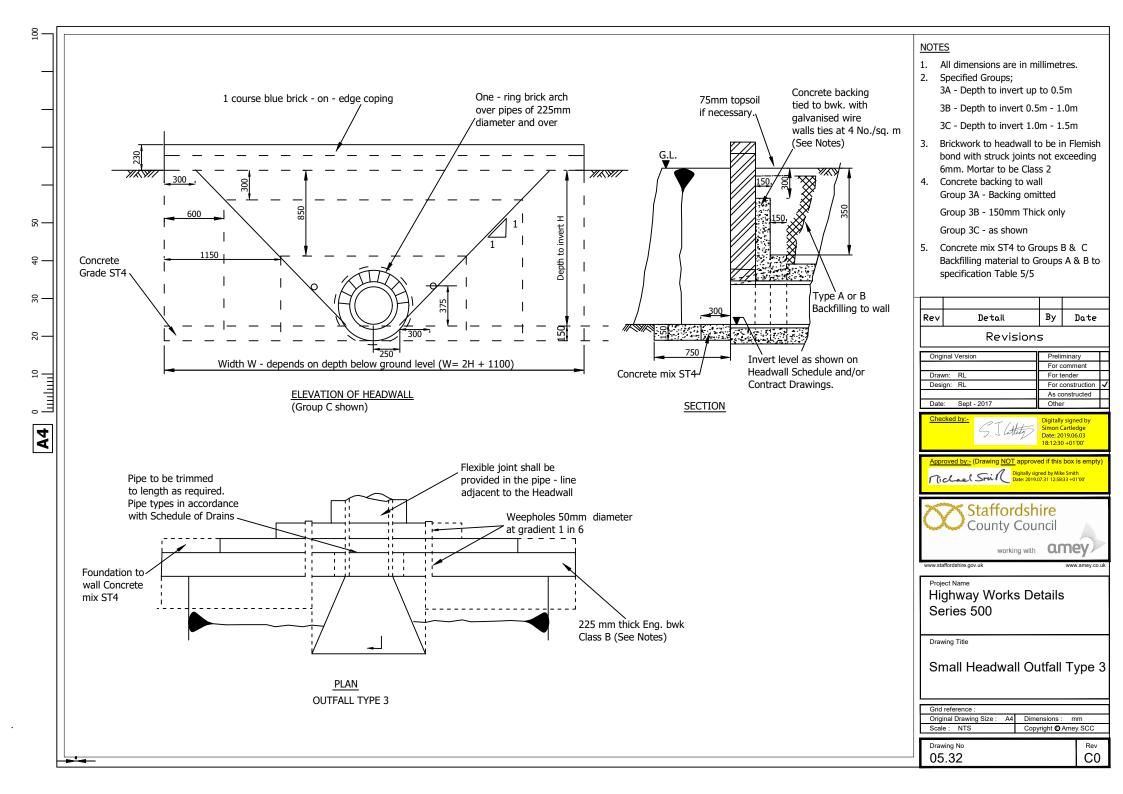
Drawing Title

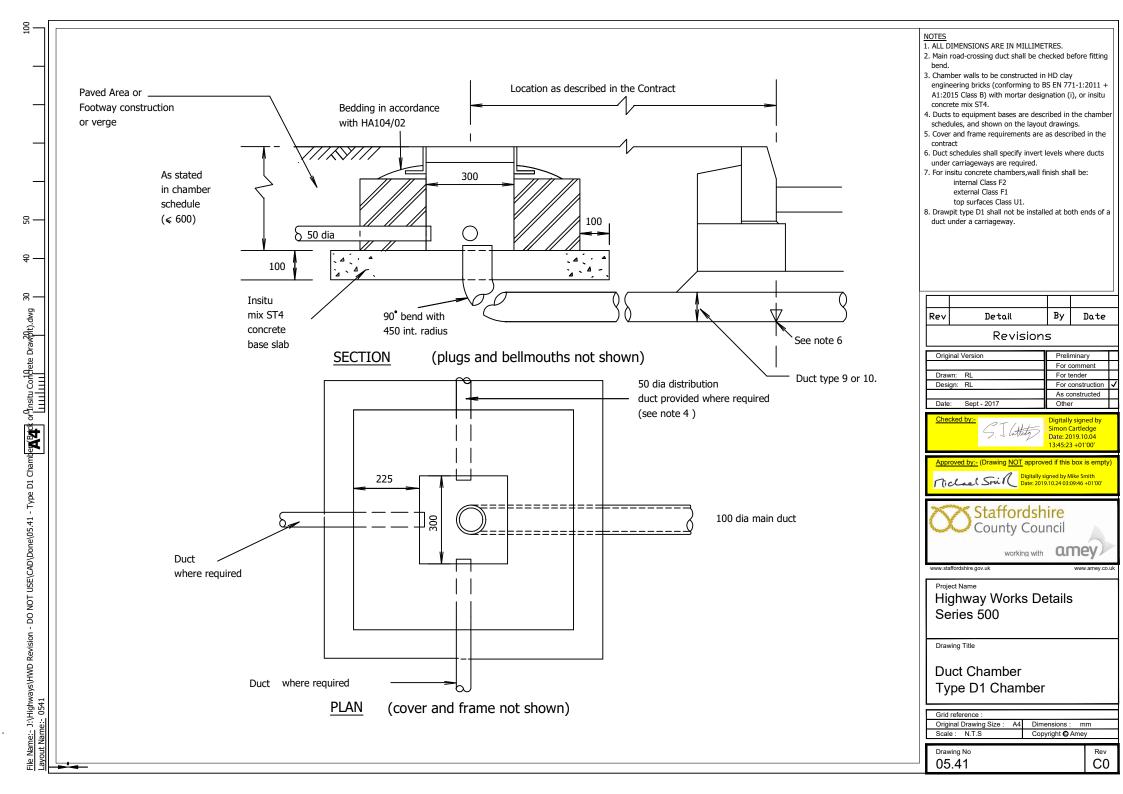
Drawpits and Duct Chambers-Chamber Schedules

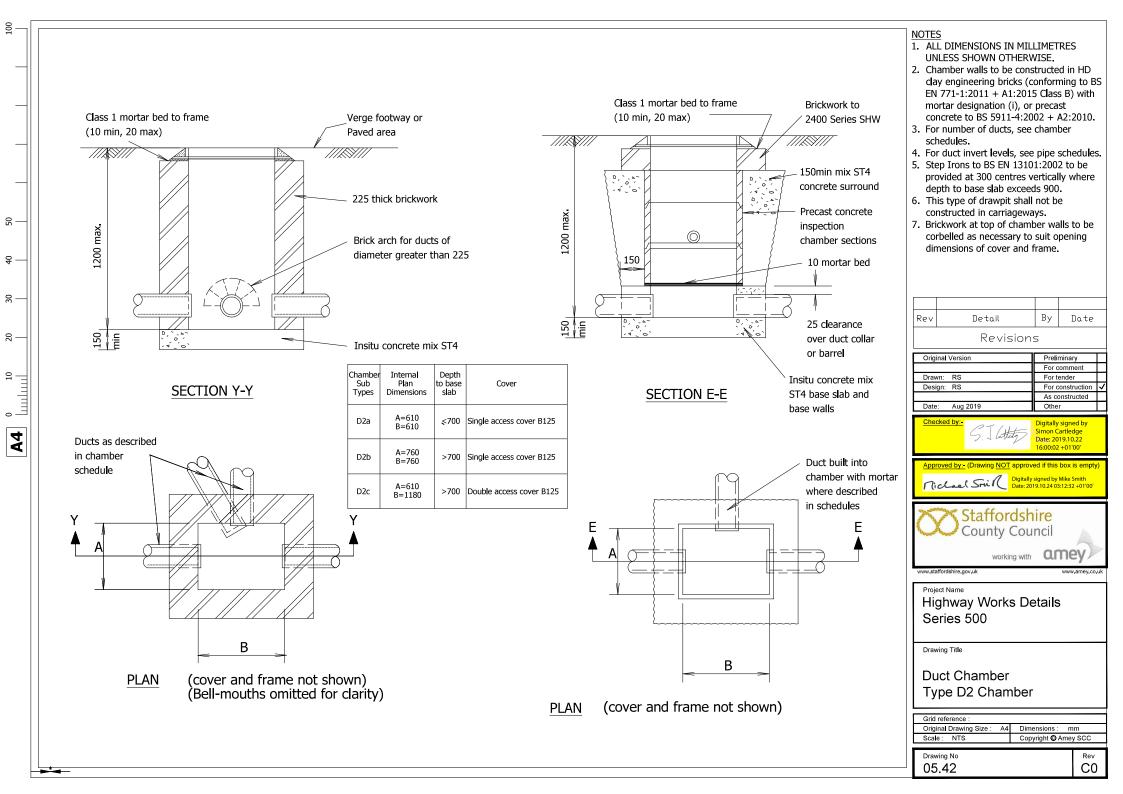
Grid reference :	
Original Drawing Size: A4	Dimensions: mm
Scale: NA	Copyright O Amey SCC

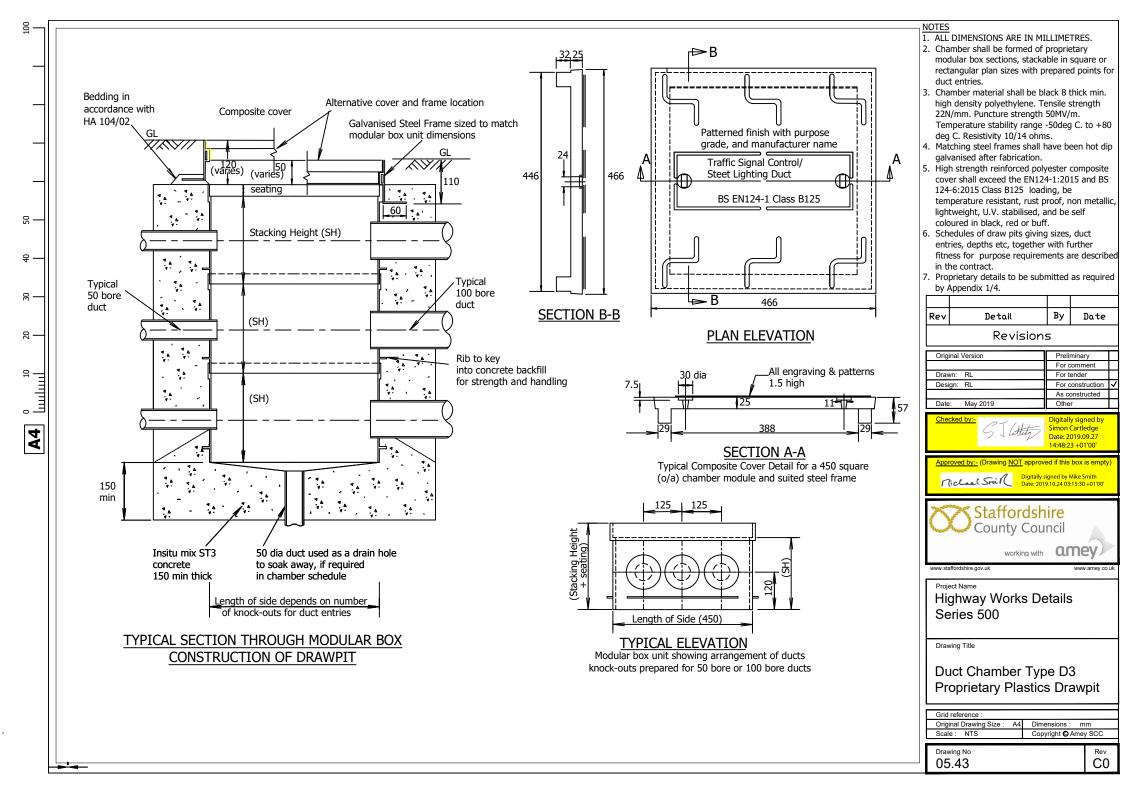
Drawing No 05.23

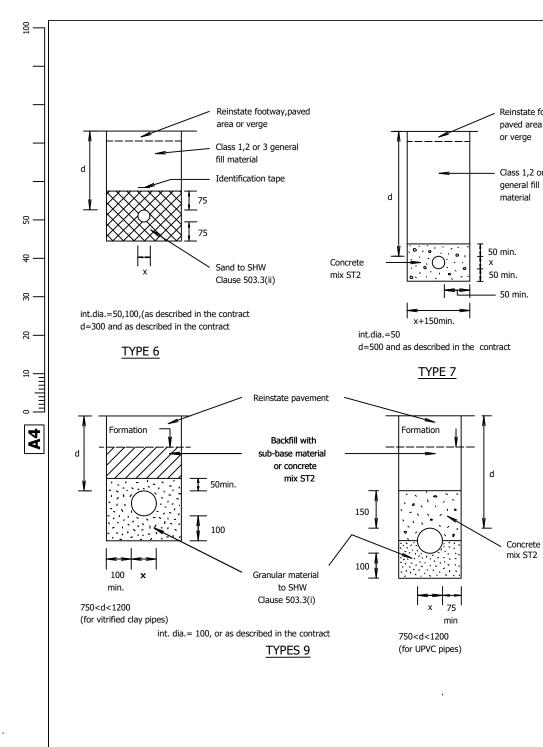


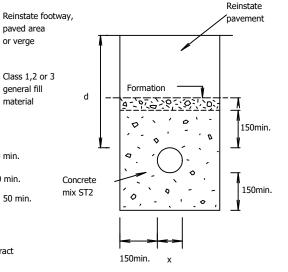












int.dia.=100 d=500,<750,as described in the contract

# TYPE 8

Scheme specific designs (as per drainage pipe design) when depth of cover >1200. As described in the contract

# TYPES 10

Concrete

mix ST2

Type	Permitted Types to	
Ref.	SHW Table 5/2	
6	UPVC	
7	UPVC	
8	Clayware to BS 65:1991 "ES"; UPVC	
9	Clayware to BS 65:1991 "ES"; UPVC	
10	As described in the Contract	

#### **NOTES**

- 1. All dimensions are in millimetres.
- 2. This drawing refers to single ducts in trench in all-purpose roads and shall be read in conjunction with Appendix 5/2 and the pipe schedules.
- 3. The concrete cover to ducts Type 8 and 9 shall extend to the sides of the
- 4. For ducts Type 10 provide table of trench and bedding details in the contract.
- 5. Ducts under carriageways (Type 8 and 9) shall be fitted with bellmouths.
- 6. Ducts under carriageways (Type 8 and 9) shall be provided with precast concrete marker blocks at finished surface level.
- 7. Slack in drawrope min. 1000 to be coiled under marker block.
- 8. Identification tape shall be 150 wide x 100 micron thick, colour yellow with black inscription, as described in the Appendix 5/2.
- 9. Except for Type 7, trench widths shall be min.(x+300), max.(x+600) applied on and below a line 300 above the outside top of the duct.
- 10. For Type 7 the adjacent cable-in-trench max. trench widths shall apply throughout the ducted length.
- 11. Reinstatement requirements are as stated in Appendix 7/2.
- 12. Ducts 'purpose' inscriptions and self-colouring requirements shall be as described in Appendix 5/2.

				_
Rev	Detail	Ву	Date	_
Revisions				
Original Version		Preli	minary	Γ

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	>
	As constructed	
Date: Sept - 2019	Other	





www.staffordshire.gov.uk

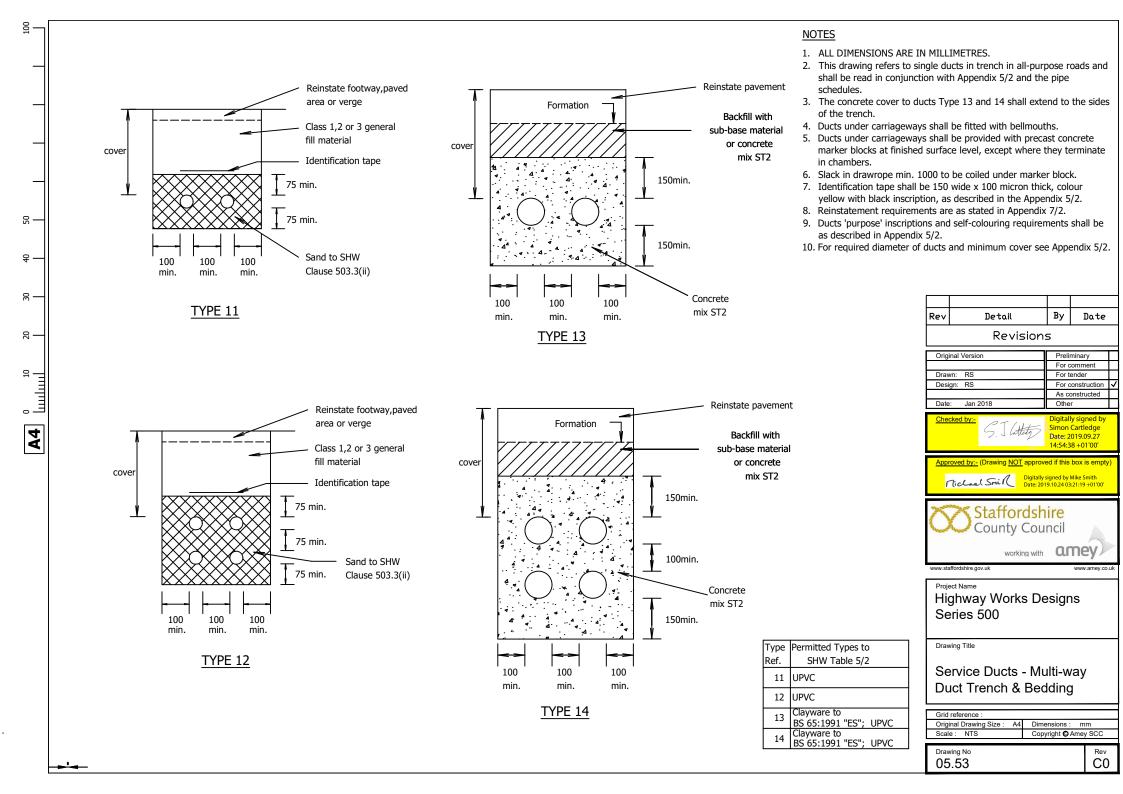
Highway Works Designs Series 500

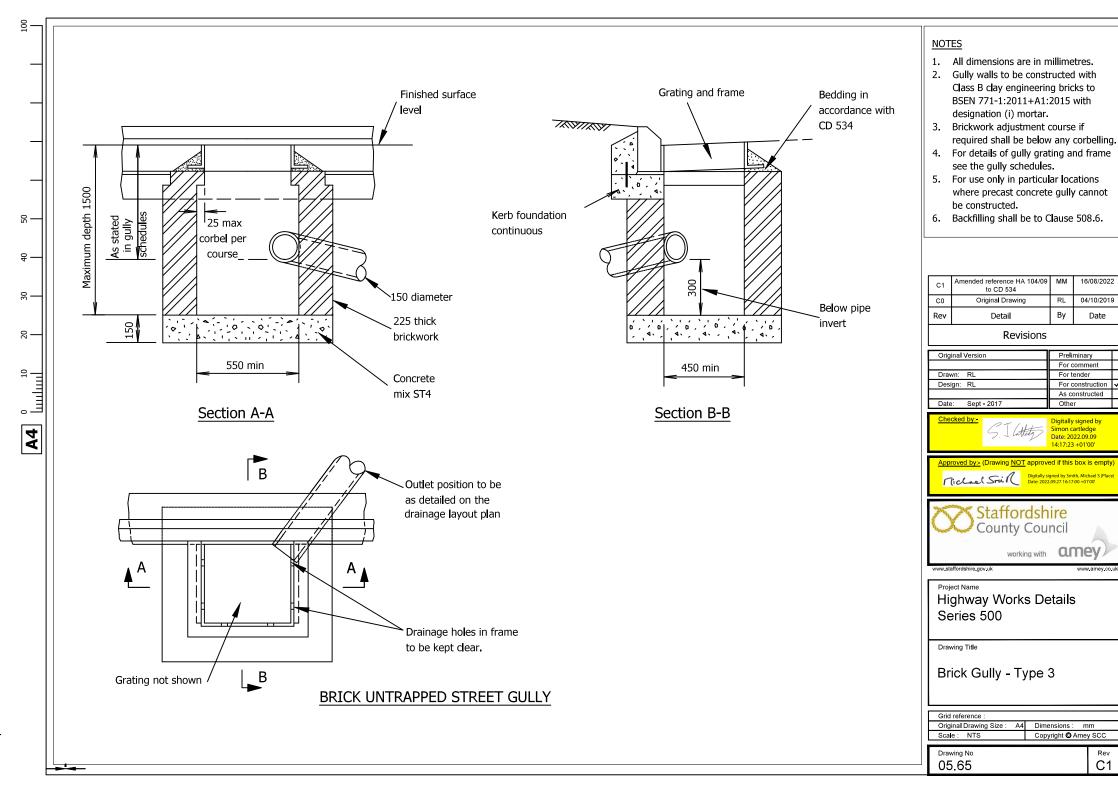
Drawing Title

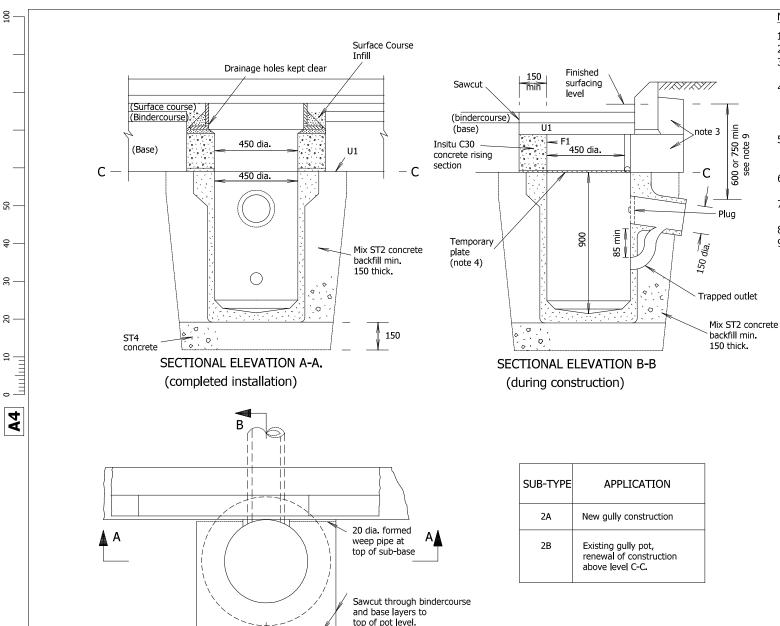
Service Ducts **Duct Trench & Bedding** 

Gila reference.	
Original Drawing Size: A4	Dimensions: mm
Scale: NTS	Copyright C Amey SCC

Drawing No 05.52







- 1. All dimensions are in millimetres.
- 2. For details of gully grating and frame see the gully schedules.
- 3. Construction at kerb either side of gully position as per Highway Works Detail Drg. No. 11.01.
- 4. Temporary plate 10 thick mild steel to be fixed on top of gully pot prior to laying base and binder course layers continuous over gully position. Plate shall be removed before casting rising section.
- 5. Temporary plate, pavement materials over plated area, and the removal works shall be deemed to be Temporary Works for measurement purposes.
- 6. Precast concrete gully pot shall be to BS 5911-6:2004 + A1:2010.
- 7. Surface course material infill outside of frame shall be compacted with pneumatic tools.
- 8. Frames shall be bedded in accordance with CD 534.
- 9. The minimum depth from the top of the grating to the top of the gully outlet is to be 750mm when the connection is under the carriageway and 600mm elsewhere.

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	
Design: RL	For construction	<b>√</b>
	As constructed	
Date: Sept - 2017	Other	Г







Project Name Highway Works Details Series 500

Drawing Title

Precast Concrete Gully -Type 2

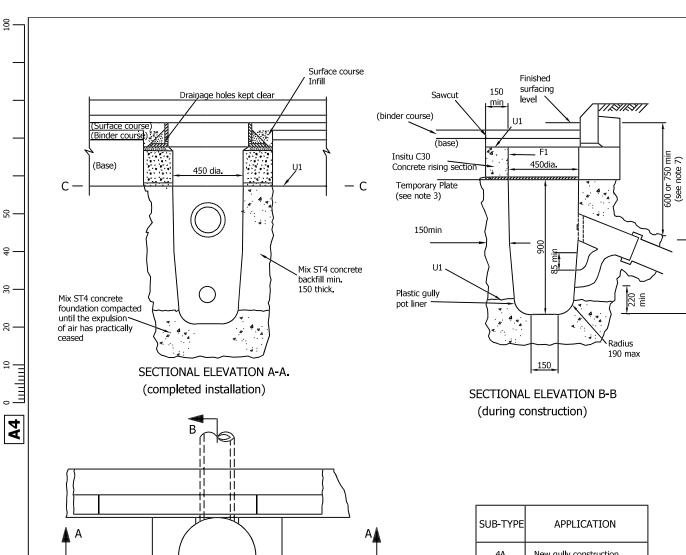
Grid reference :	
Original Drawing Size: A4	Dimensions : mm
Scale: NTS	Copyright O Amey SCC

Drawing No C1 05.67

PLAN (at top of basecourse - prior to installing grating and frame)

27/09/2022 Replaced ref HA 104/09 with MM CD 534. Removed previous notes 3 and 8. New note 9 & minimum depth requirements added. Trapped outlet & plug details added. 24/10/2019 CO Original Drawing Rev Ву Detai Date

Revisions



Sawcut through binder course

and base layers to top of pot level.

**PLAN** 

(at top of bindercourse - prior to installing grating and frame)

SUB-TYPE	APPLICATION
4A	New gully construction
4B	Existing gully pot, renewal of construction above level C-C.

#### **NOTES**

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. Requirements for gully grating and frame see the gully schedules.
- 3. Temporary plate 10 thick mild steel to be fixed on top of gully pot prior to laying base and binder course layers continuous over gully position. Plate shall be removed before casting rising section.
- 4. Temporary plate, pavement materials over plated area, and the removal works shall be deemed to be Temporary Works for measurement purposes.
- 5. Surface course material infill outside of frame shall be compacted with pneumatic tools.
- 6. Frames shall be bedded in accordance with CD 534.
- 7. The minimum depth from the top of the grating to the top of the gully outlet is to be 750 when the connecting pipe is under a carriageway or a hard shoulder and 600 elsewhere.

	C1	Amended reference HA 104 to CD 534. Pot depth increased from 750mm to 900mm.	ММ	27/09/2022
ſ	C0	Original Drawing	RL	02/07/2019
	Rev	Detail	Ву	Date
- [				

### Revisions

Original Version	Preliminary	
	For comment	
Drawn: RL	For tender	Г
Design: RL	For construction	~
	As constructed	
Date: Sept - 2017	Other	Г



Digitally signed by Simon cartledge Date: 2022.09.28 10:52:57 +01'00'

Approved by:- (Drawing NOT approved if this box is empty

Dictacl Sri C Digitally signed by Smith, Michael S (Place Date: 2022.09.28 11:02:01 +01'00'



Project Name

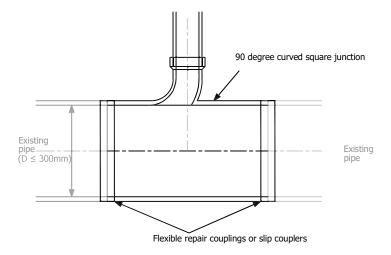
Highway Works Details Series 500

Drawing Title

Insitu Concrete Gully - Type 4

Grid reference :		
Original Drawing Size :	A4	Dimensions: mm
Scale: NTS		Copyright © Amey SCC

Drawing No C1 05.68



Incoming pipe

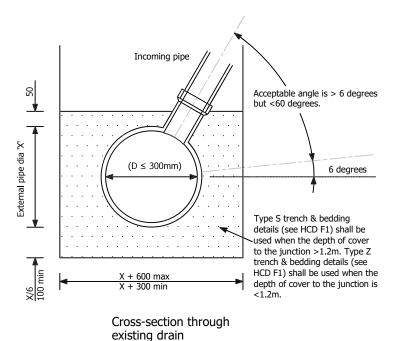
Plan through connection made by inserting a 90 degree curved square junction into the existing drain

# Incoming pipe 45 degree oblique junction Existing pipe \_\_\_\_\_ ( $D \le 300$ mm) Existing pipe Flexible repair couplings or slip couplers

Existing

pipe

Plan through connection made by inserting a 45 degree oblique junction into the existing drain



#### NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. Connections to existing pipes with diameter less than or equal to 300mm shall be made by the insertion of a 45 degree oblique or 90 degree square or 90 degree curved square junction into the existing drain pipeline.
- 3. The section of existing drain shall be removed by cutting with pipe cutter or disc
- 4. The inserted junction shall be connected with flexible repair couplings or slip couplers.
- 5. The junction strength classification shall match that of the existing pipe.

Rev	Detail	Ву	Date		
Revisions					

Original Version	Preliminary
	For comment
Drawn: SJC	For tender
Design: SJC	For construction V
	As constructed
Date: June - 2019	Other



Digitally signed by Mike Smith Date: 2019;08.16 15:00:17+01'00'



Project Name

**Highway Works Details** Series 500

Drawing Title

Connecting to Existing Piped Drain with diameter equal to or less than 300mm

Grid reference :		
Original Drawing	Size: A	Dimensions: mm
Scale: NTS		Copyright © Amey SCC

Drawing No 05.70 C0

**EXAMPLE OF SOCKETED** 

SADDLE CONNECTION

Existing

Sewer or Drain

material

FIG 'B'

Existing bedding

20

4

30

20

**A4** 

Proprietary

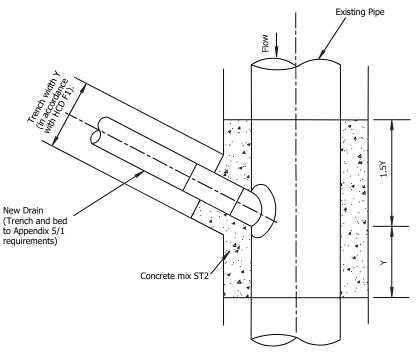
Jointing to / manufacturer's

recommendations

Socketed Saddle

### **NOTES**

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- Saddle connections can only be used on existing drains with diameters >300mm and when the connecting pipe's
  diameter is ≤ half the dia of the existing drain. Where a connection is required onto a 3rd party drainage
  asset, the method and type of connection is to be determined through consultation with the asset owner prior to
  the commencement of works on site. New saddle connections must be compatible with the size and types of pipe
  being connected.
- 3. Connections made with saddle fittings should be made by cutting and safely removing a core from the existing pipe and jointing the saddle fitting to the pipe, in accordance with the manufacturers instructions, to ensure a watertight joint. The connecting pipe should not protrude into the bore of the existing drain.
- 4. Oblique saddle preferred.
- Bends as stated in pipe schedules.
- 6. New drain pipe trench and bedding alternatives are described in Appendix 5/1.
- 7. New drain pipes using beds Type Z shall have flexible joint in concrete bed and surround to the Overseeing Organisation's approval, positioned as directed.



PLAN DIAGRAM - EXAMPLE OF OBLIQUE SADDLE CONNECTION SHOWING LENGTH OF CONCRETE HAUNCH AND COVER TO EXISTING PIPES ABOUT THE CONNECTION





Digitally signed by Mike Smith Date: 2019.08.16 15:01:37 +01'00

www.staffordshire.gov.uk

www.amey.co

Project Name

Highway Works Details Series 500

Drawing Title

Connecting to Existing Piped Drain with diameter greater than 300mm

Grid reference :		
Original Drawing Size :	A4	Dimensions: mm
Scale: NTS		Copyright © Amey SCC

Drawing No 05.71

