



**PERSIMMON HOMES
NORTH LITTLEHAMPTON - PHASE 2
FITZALAN LINK ROAD,
LITTLEHAMPTON, WEST SUSSEX**

**S38/278 AGREEMENT HIGHWAY WORKS
CONSTRUCTION DETAILS**

JULY 2016

REVISION P2

Ref: PHF-MB-S278-GF-CD-D-01

the journey is the reward

**PERSIMMON HOMES
NORTH LITTLEHAMPTON - PHASE 2
FITZALAN LINK ROAD,
LITTLEHAMPTON, WEST SUSSEX**

**S38/278 AGREEMENT HIGHWAY WORKS
CONSTRUCTION DETAILS**

JULY 2016

REVISION P2

Ref: PHF-MB-S278-GF-CD-D-01

Project Code:	A/PHFITZ.2
Prepared by:	AB
Approved by:	TPM
Issue Date:	July 2016
Status:	FOR APPROVAL



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Summary of Revisions 1

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Summary of Revisions

Rev P1 - First Issue

Rev P2 --- WYG Acoustic Fence detail amended to 3.5m

List of Construction Details

Standard Details (Supplied) – West Sussex County Council

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Standard Details (Supplied) – Mayer Brown Limited

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	<u>Size</u>
PHF-MB-S278-GF-DR-D-F/01	Standard Details Drawing 1 of 5	As shown	A1
PHF-MB-S278-GF-DR-D-F/02	Standard Details Drawing 2 of 5	As shown	A1
PHF-MB-S278-GF-DR-D-F/03	Standard Details Drawing 3 of 5	As shown	A1
PHF-MB-S278-GF-DR-D-F/04	Standard Details Drawing 4 of 5	As shown	A1
PHF-MB-S278-GF-DR-D-F/05	Standard Details Drawing 5 of 5	As shown	A1

Standard Details (Supplied) – TMP

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	<u>Size</u>
558022-000002001	Heritage Solalite Bollards	NTS	A4

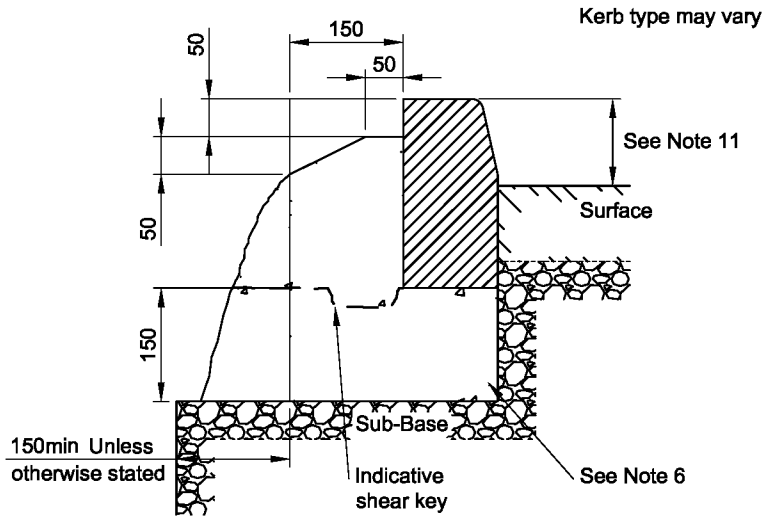
Standard Details (Supplied) – WYG

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	<u>Size</u>
-	Acoustic Fence Detail (3.5m)	NTS	A4

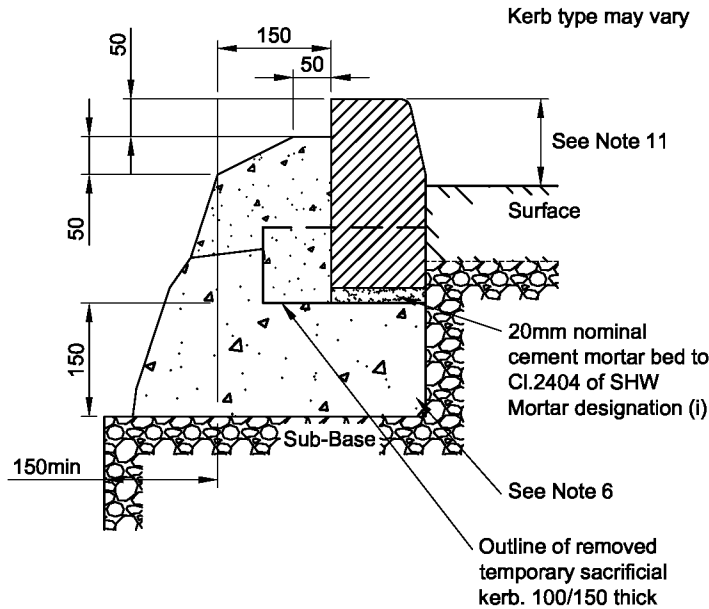
Standard Details (Not Supplied) – Manual of Contract Documents for Highway Works HCD's

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>	<u>Size</u>
F1	Surface Water Drains – Trench and Bedding Details	NTS	A4
I2	Duct Trench Cross Sections and Details of Mandrell	NTS	A4

- NOTES
1. Do not scale from this drawing.
 2. Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint tapers' in excess of 5mm between formed surfaces mortar jointing shall be used as directed by Highway Inspector.
 3. All full length PCC kerbs are to be mechanically handled.
 4. All precast concrete Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
 5. All setts of natural stone shall be to BS EN 1342 & laid to BS 7533-7.
 6. All Kerbs & Edgings bed & backing to be Concrete Class ST1 (C6/8), well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm.
 7. The minimum length of any cut kerb shall be 450mm (Half kerb).
 8. The correct radius kerbs shall be used for all radii of 12m or less. For radii between 12m and 20m 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys.
 9. The correct transition kerbs shall be used for all drop kerb and upstand variation locations.
 10. The correct quadrant kerbs shall be used to form corners of square areas and refuge islands. Cut quadrants are permissible.
 11. Full height kerb upstand shall be 125mm unless otherwise agreed by WSCC under a formal request.
 12. Drop kerb upstand shall be 0-6mm for pedestrian crossings, 25mm for vehicular crossings.

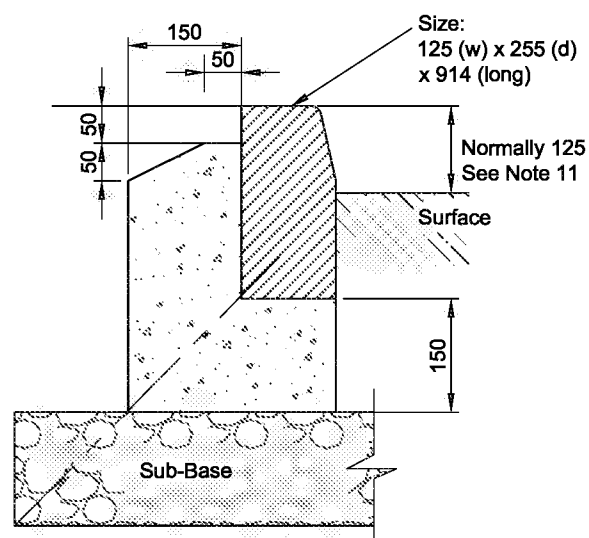


GREEN BED METHOD
(1:10)

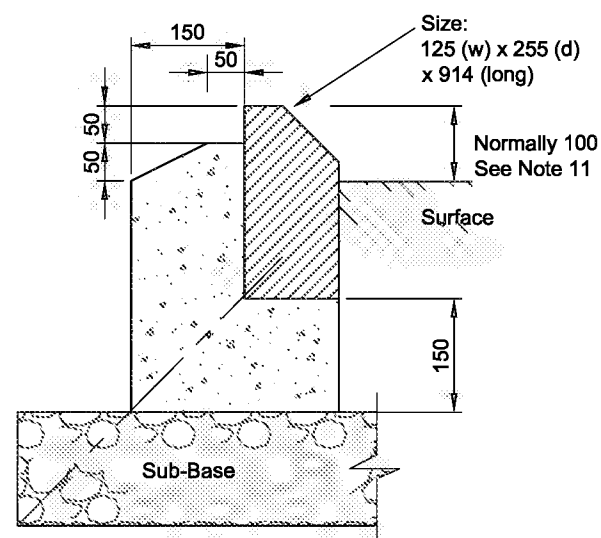


FORMED BASE METHOD
(1:10)

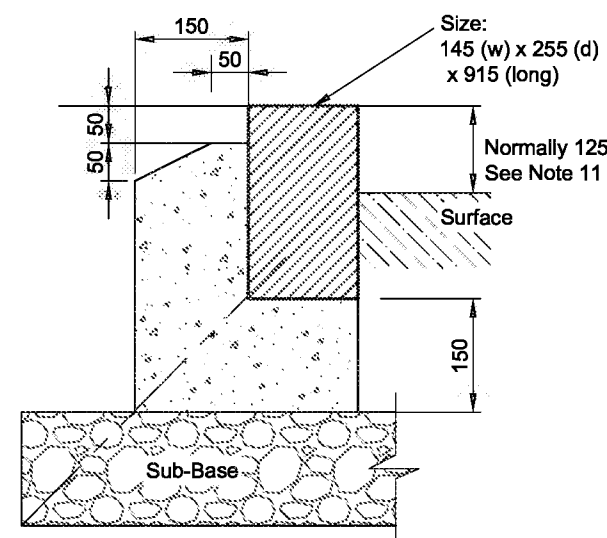
B A	100mm Temp Kerb shown Formed Base Temp Kerb added	DJL DJL	GM GM	09/09/13 30/11/12	West Sussex County Council Infrastructure Group County Hall, West Street Chichester West Sussex PO19 1RH (01243) 642105 	Project Name Section 278/38 Highway Agreement Standard Details		APPROVED DECEMBER 2015 CONTRACTOR TO ENSURE LATEST DETAILS ARE USED	
Rev	Revision details	Chkd	Appd	Date		Drawing Title Alternative Methods of Laying Kerbs		Original Drawing Size : A3	
Drawn:	MJA					Scale : As Shown		Dimensions :	
Chkd:	DJL					Drawing No. S278/38/01		Rev B	
Appd:	APH								
Date:									
File ref:									
IWP Ref:									



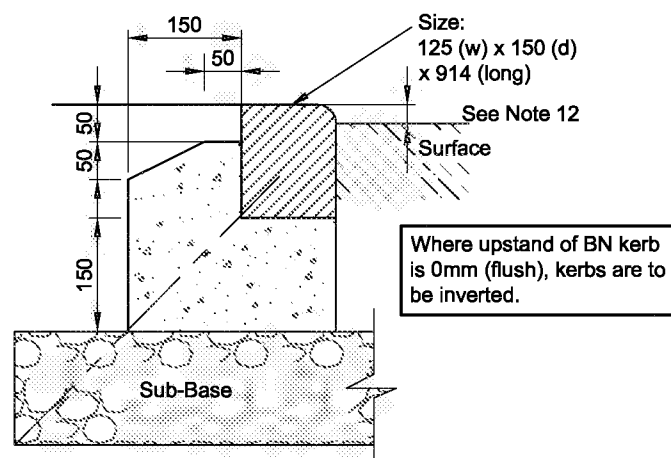
**FULL HEIGHT KERB
TYPE HB2**
(1:10)



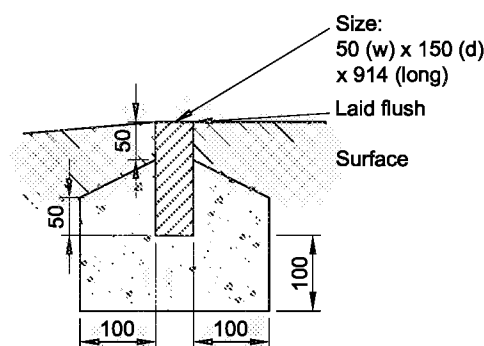
**SPLAY KERB
TYPE SP**
(1:10)



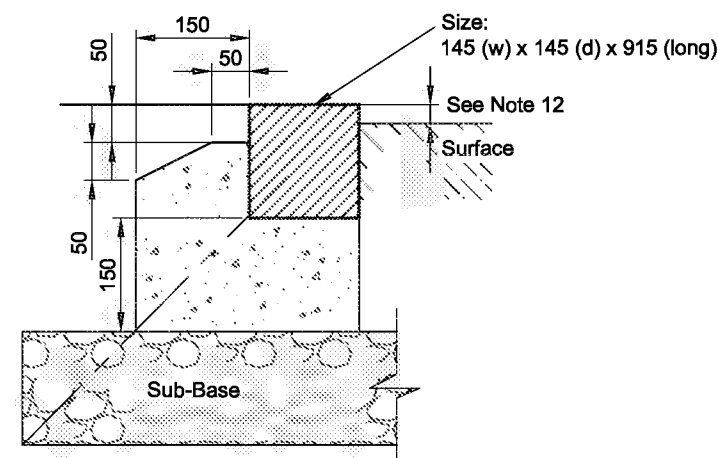
**FULL HEIGHT KERB
TYPE CONSERVATION**
(1:10)



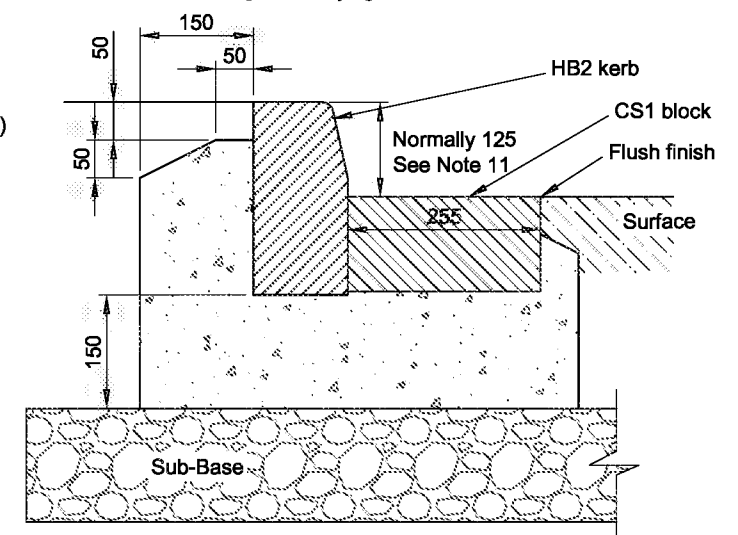
**DROP KERB
TYPE BN**
(1:10)



**EDGING
TYPE EF FLAT TOP**
(1:10)



**DROP KERB
TYPE: CONSERVATION**
(1:10)



**COMBINATION KERB
TYPE HB2+CS1**
(1:10)

To be used where longitudinal gradient is flatter than 1:150.
Gradient shall not exceed 1:200.

NOTES

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- Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint tapers' between formed surfaces mortar jointing shall be used as directed by Highway Inspector.
- All full length PCC kerbs are to be mechanically handled.
- All precast concrete Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
- All setts of natural stone shall be to BS EN 1342 & laid to BS 7533-7.
- All Kerbs & Edgings bed & backing to be Concrete Class ST1 (C6/8), well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm.
- The minimum length of any cut kerb shall be 450mm (Half kerb).
- The correct radius kerbs shall be used for all radii of 12m or less. For radii between 12m and 20m 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
- Suitable transition kerbs shall be used for all drop kerb and upstand variation locations.
- Suitable quadrant kerbs shall be used to form corners of square areas and refuge islands.
- Full height kerb upstand shall be as shown unless otherwise agreed by WSCC under a formal request.
- Drop kerb upstand shall be 0-6mm for pedestrian crossings, 25mm for vehicular crossings.
- Refer to drawing 01 for laying methods.

A	Splay kerb re-named	DJL	GM	30/11/12
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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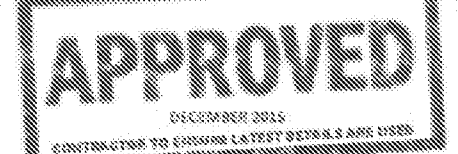


Project Name

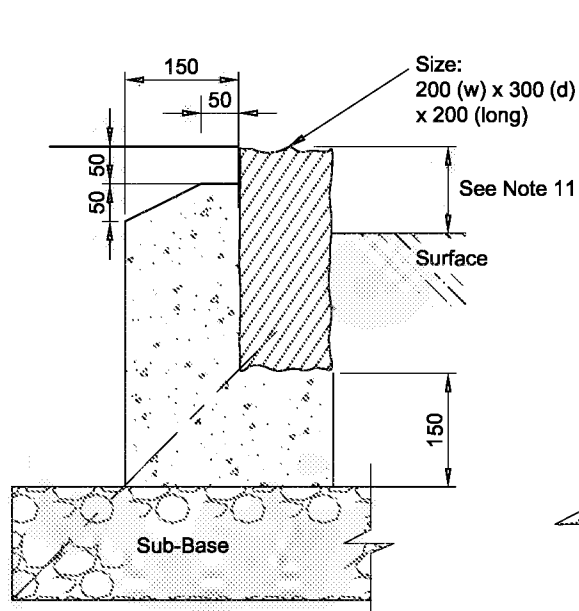
Section 278/38 Highway Agreement
Standard Details

Drawing Title

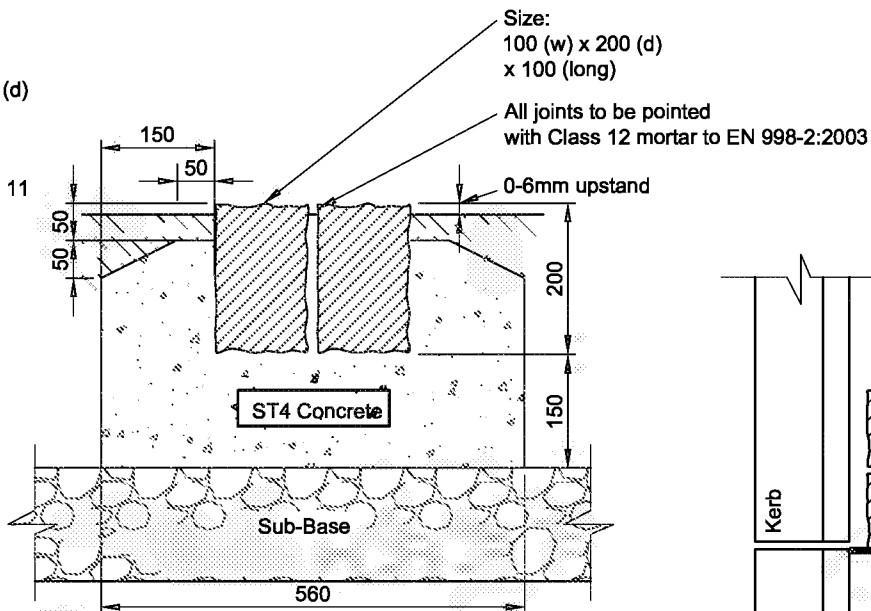
Approved Kerb Type Selection
Sheet 1



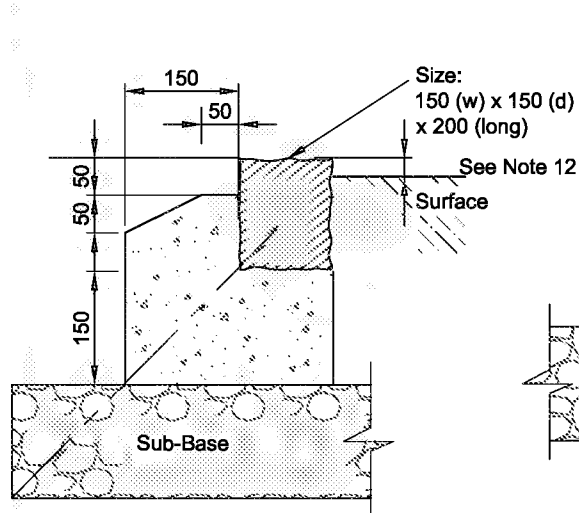
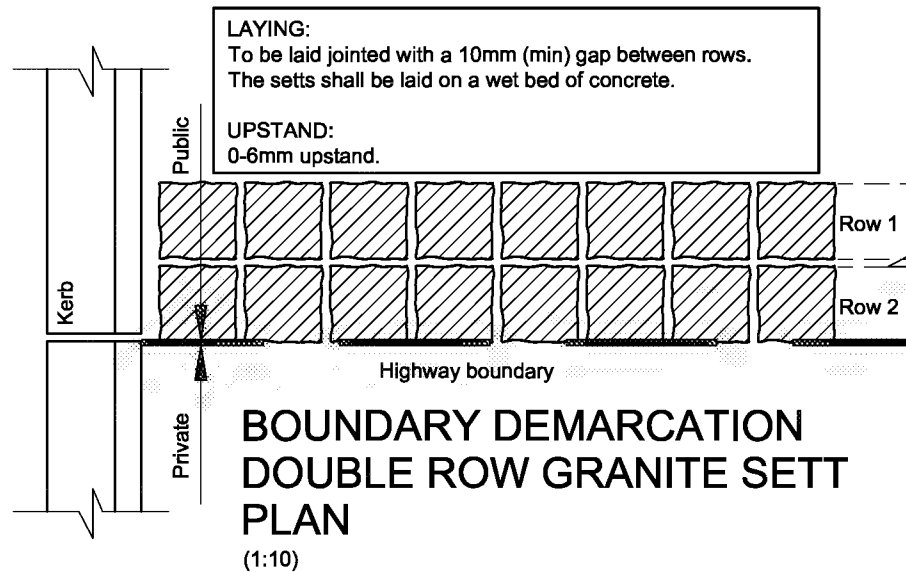
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Scale :	As Shown
Dimensions :	
Drawing No.	S278/38/02
Rev	A



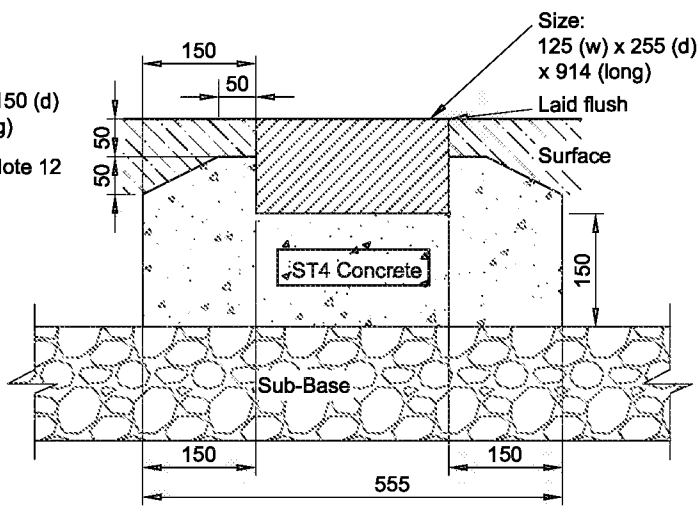
FULL HEIGHT KERB
TYPE GRANITE SETT
(1:10)



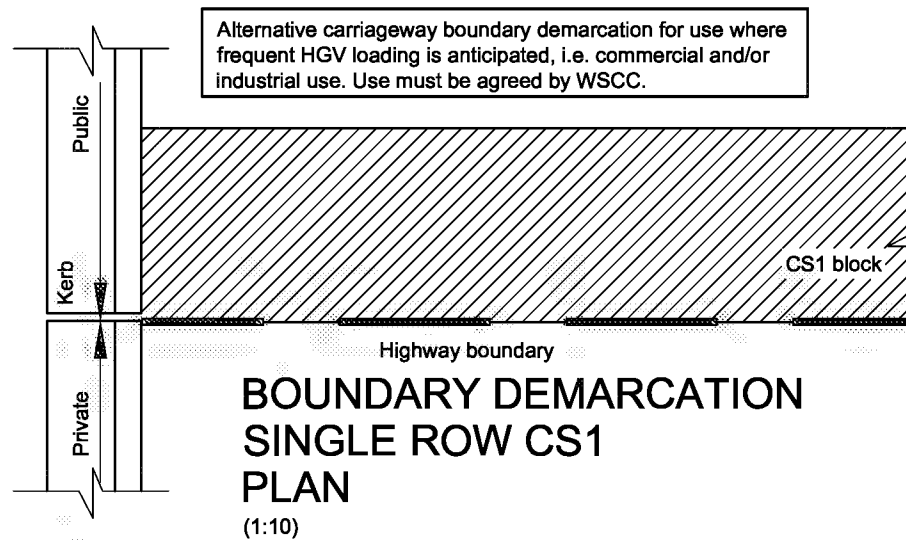
BOUNDARY DEMARCATION
DOUBLE ROW GRANITE SETT
SECTION
(1:10)



DROP KERB
TYPE GRANITE SETT
(1:10)



BOUNDARY DEMARCATION
TYPE CS1
SECTION
(1:10)



NOTES

1. Do not scale from this drawing.
2. Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint tapers' between formed surfaces mortar jointing shall be used as directed by Highway Inspector.
3. All full length PCC kerbs are to be mechanically handled.
4. All precast concrete Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
5. All setts of natural stone shall be to BS EN 1342 & laid to BS 7533-7.
6. All Kerbs & Edgings bed & backing to be Concrete Class ST1 (C6/8), well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm. Carriageway demarcation CS1/Granite setts to be ST4 (C16/20).
7. The minimum length of any cut kerb shall be 450mm (Half kerb).
8. The correct radius kerbs shall be used for all radii of 12m or less. For radii between 12m and 20m 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
9. The correct transition kerbs shall be used for all drop kerb and upstand variation locations.
10. The correct quadrant kerbs shall be used to form corners of square areas and refuge islands.
11. Full height kerb upstand shall be 125mm unless otherwise agreed by WSCC under a formal request.
12. Drop kerb upstand shall be 0-6mm for pedestrian crossings, 25mm for vehicular crossings.
13. Refer to drawing 01 for laying methods.

A	Corrected ref to CS1	DJL	GM	30/11/12
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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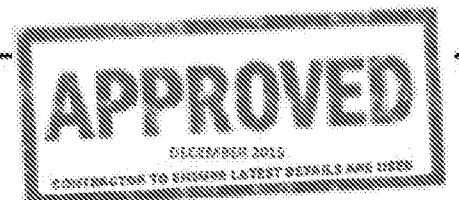


Project Name

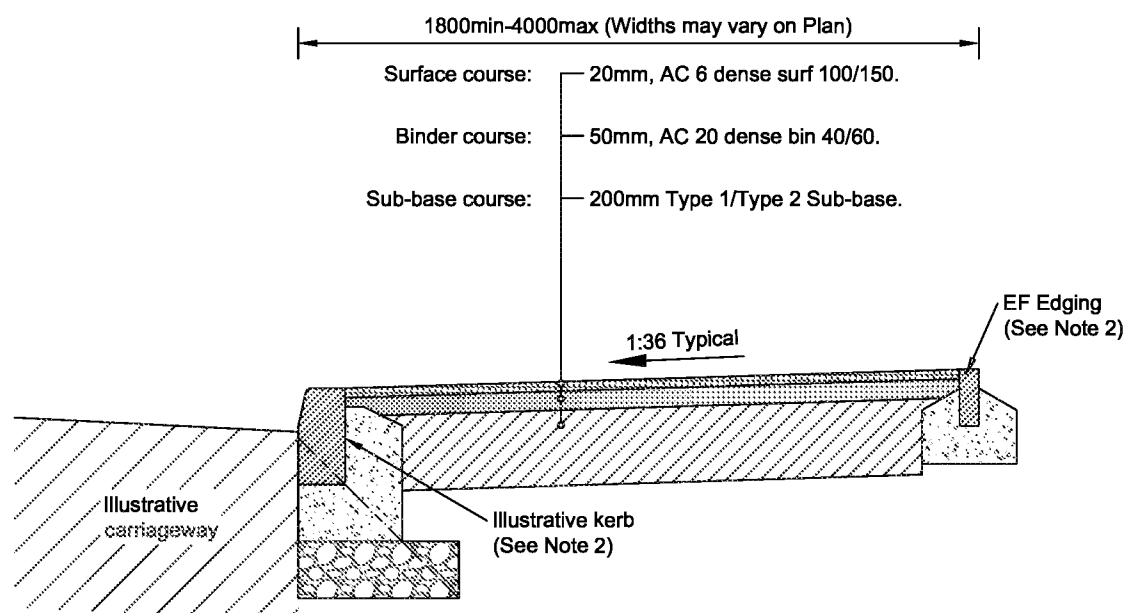
Section 278/30 Highway Agreement
Standard Details

Drawing Title

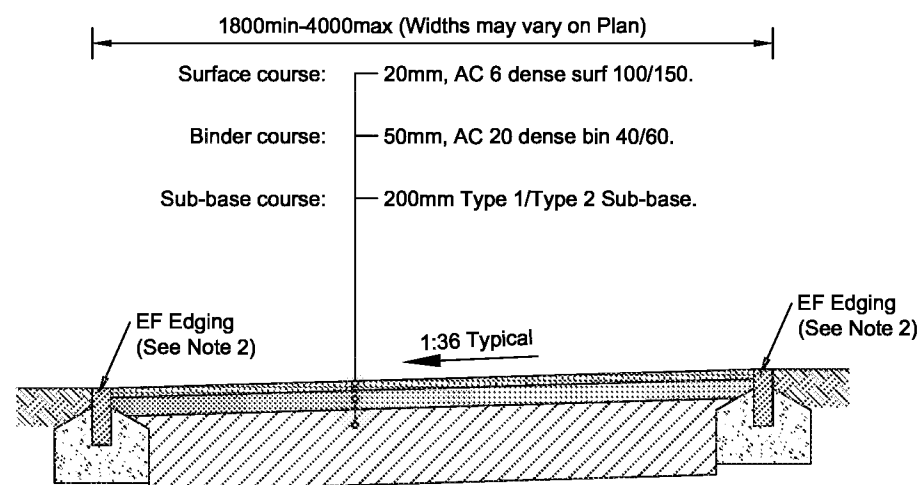
Approved Kerb Type Selection
Sheet 2



Original Drawing Size :	A3
Scale :	As Shown
Dimensions :	
Drawing No.	Rev
S278/38/03	A



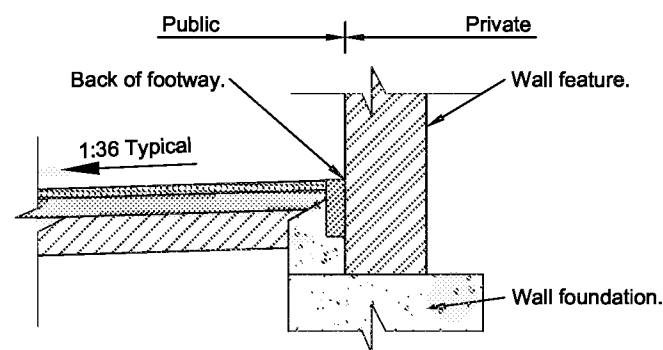
TYPE 1
FLEXIBLE FOOTWAY CONSTRUCTION
(Adjacent Carriageway)
(Scale 1:20)



TYPE 2
FLEXIBLE FOOTPATH CONSTRUCTION
(Separate from Carriageway)
(Scale 1:20)

NOTES

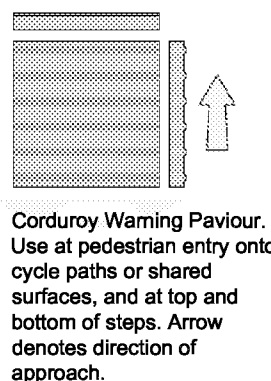
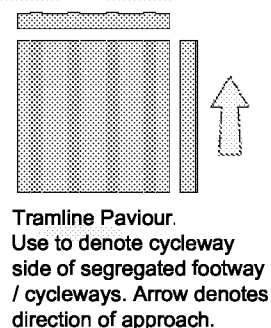
1. Do not scale from this drawing.
2. Refer to drawings 02 & 03 for Approved Kerb Type Selection.
3. Refer to drawing 01 for laying methods.
4. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
5. The Highway Inspector may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
6. The Highway Inspector may increase the Sub-base depth or include a geotextile or geogrid on formation where site ground conditions are considered to be sub-standard.
7. Where there are footways without vehicle crossovers sub-base may be reduced to 100mm.
8. None of the details on this drawing are suitable where 'no-dig' construction is required.
9. Where a footpath is proposed between walls, private land or other features then positive drainage will be necessary in order to prevent run off of highway surface water.
10. Tactile paving to be specified and installed in accordance with DETR guidance on the Installation of Tactile Paving 1998



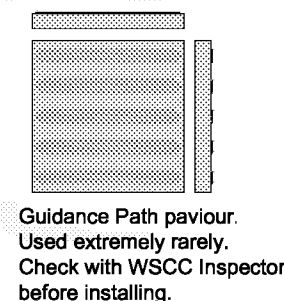
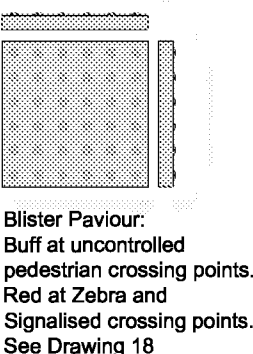
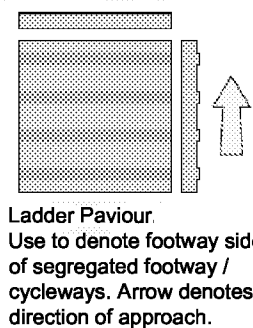
FLEXIBLE CONSTRUCTION ADJACENT WALL
(Scale 1:20)

PROPOSED WALL SCENARIO
The back of footway shall be formed with an EF Edging.

HISTORIC WALL SCENARIO
Where works are proposed directly adjacent an existing wall feature the Highway Inspector shall review the edging requirement on a case by case basis.



TACTILE PAVING
(Scale 1:20) - See note 10



Small element tactile paviments to be used where vehicular overrun is likely to break slabs

FOOTWAY - FLEXIBLE CONSTRUCTION TABLE SELECTOR			
	FOOTWAY	CROSSOVER TYPE 1 (STANDARD)	CROSSOVER TYPE 2 (INDUSTRIAL)
SUB-BASE			
Type 1 / Type 2 (Clause 803)	200 (See Note 7)	200	270
BASE			
32mm Dense Asphalt Concrete Base 40/60 PEN	-	-	100
BINDER COURSE			
20mm Dense Asphalt Concrete Binder 40/60 PEN (Not required with block paviers)	50	50	50
SURFACE COURSE			
Heavy Traffic Option: HRA 30/10 F Surf 40/60	25	25	25
HRA 45/6 Surf 160/220			
6mm Dense Graded Asphalt Concrete Surface Course 100/150	20	20	-
10mm Close Graded Asphalt Concrete Surface Course 100/150	-	-	30
Blocks on 30mm sand Bed	60	60	60

B	Tactile Paving added	DJL	GM	09.09.13
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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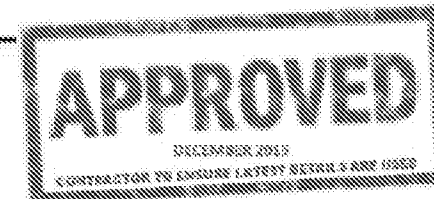


Project Name

Section 278/38 Highway Agreement
Standard Details

Drawing Title

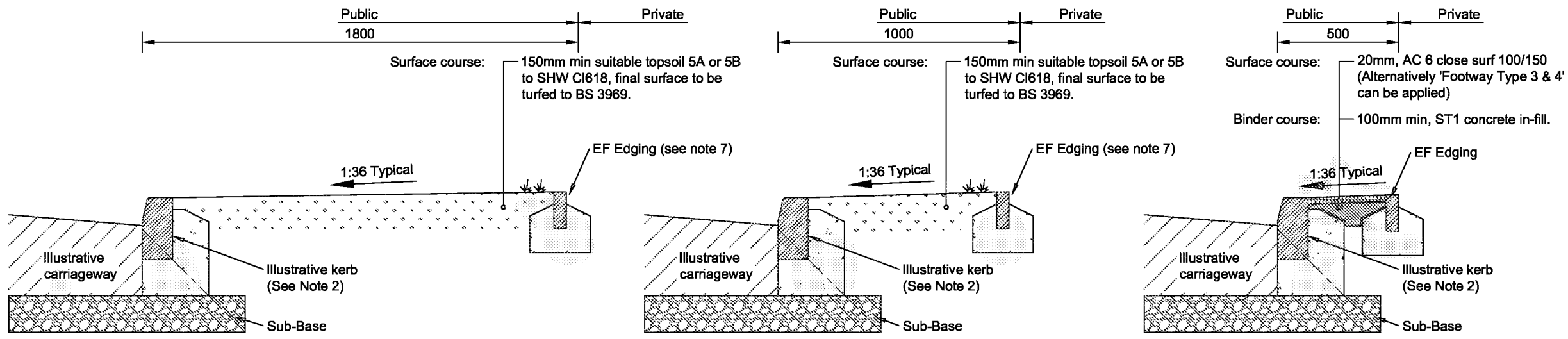
Footway/Cycleway
Type 1 & 2



Original Drawing Size : A3
Scale : As Shown Dimensions :

Drawing No. S278/38/04
Rev B

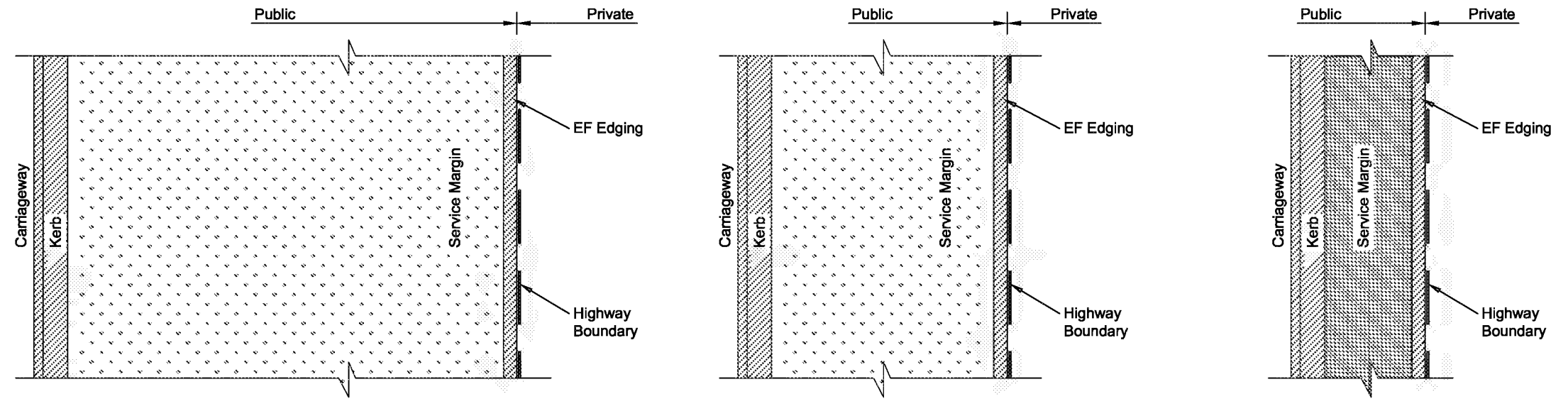
- NOTES
1. Do not scale from this drawing.
 2. Refer to drawings 02 & 03 for Approved Kerb Type Selection.
 3. Refer to drawing 01 for laying methods.
 4. Refer to drawing 10 for service corridor arrangements.
 5. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
 6. Should alternative aesthetic arrangements for highway boundary demarcation be proposed these must be agreed on a site by site basis by WSCC.
 7. EF edge to be omitted where margin is grassed/planted and bounded by a wall.



1.8m WIDTH
(Scale 1:20)

1.0m WIDTH
(Scale 1:20)

0.5m WIDTH
(Scale 1:20)



1.8m WIDTH
DEMARICATION PLAN
(Scale 1:20)

1.0m WIDTH
DEMARICATION PLAN
(Scale 1:20)

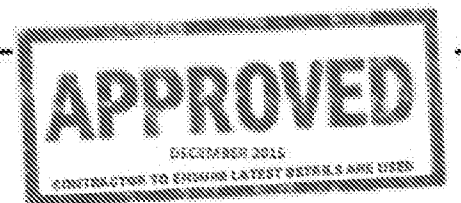
0.5m WIDTH
DEMARICATION PLAN
(Scale 1:20)

B	Note 7 added	DJL	GM	09.09.13
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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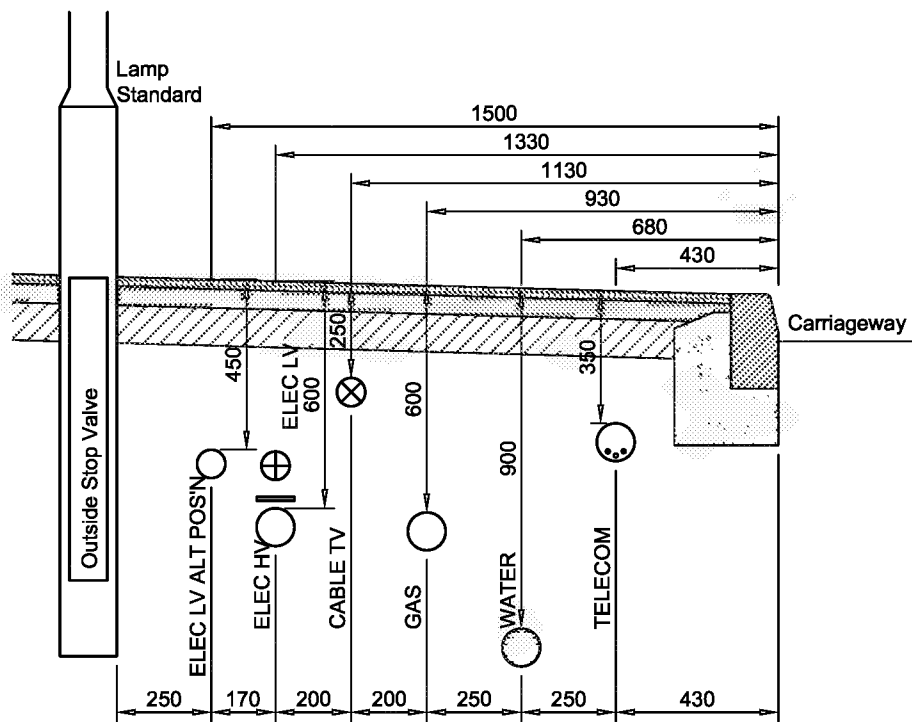


Project Name	Section 278/38 Highway Agreement
Drawing Title	Service Margins

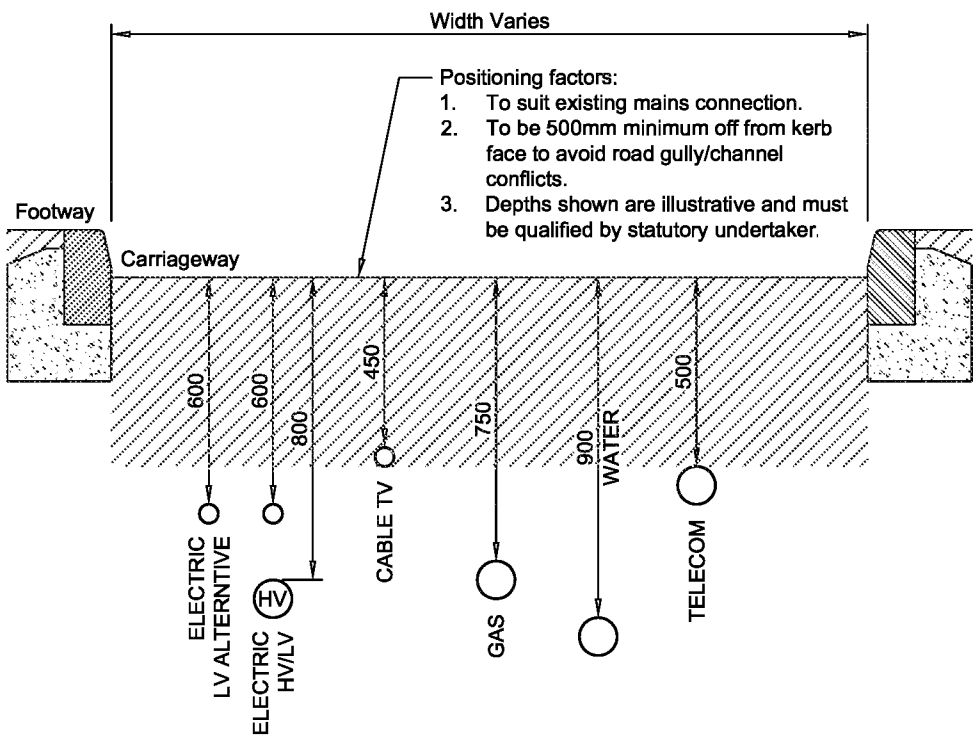


Original Drawing Size :	A3
Scale :	As Shown
Dimensions :	
Drawing No.	S278/38/09
Rev	B

- NOTES
- 1. Do not scale from this drawing.
 - 2. Refer to drawings 02 & 03 for Approved Kerb Type Selection.
 - 3. Refer to drawing 01 for laying methods.
 - 4. Refer to drawing 09 for service margin arrangements.
 - 5. All consultant and/or contractor planning and installation of underground utilities apparatus to be in accordance with NJUG (The National Joint Utilities Group) Guidelines, Volumes 1-5.
 - 6. Any variations to the typical depths shown must be qualified by correspondence evidence obtained from the relevant statutory authority.
 - 7. Shallow apparatus proposals must be qualified by correspondence evidence obtained from the relevant statutory authority as to the acceptable 'protective measures'. For technical approval a supporting drawing and loading calculations may be required.
 - 8. With the exception of existing and/or proposed sewers, no services shall be permitted to be routed within or below (includes crossings) a SUDS permeable pavement. Where this is deemed unavoidable WSCC shall review each location on a case by case basis.



RECOMMENDED ARRANGEMENT OF SERVICE MAINS WITHIN FOOTWAY
(Scale 1:20)



ALTERNATIVE ARRANGEMENT OF SERVICE MAINS WITHIN CARRIAGEWAY
(Scale 1:20)

SERVICE NOTES:

If services cannot be accommodated within the footway and/or service margin areas then WSCC will consider an alternative arrangement within the carriageway on a case by case basis subject to the following criteria:

- A. Statutory Undertaker Consent. (Streetworks Team)
- B. Maintenance Access.
- C. Likely Road Closures.
- D. Damage due to poor reinstatement works.

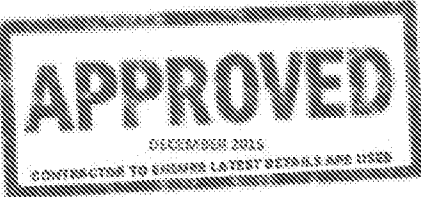
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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Project Name
Section 278/38 Highway Agreement
Standard Details

Drawing Title
Preferred Arrangement of
Services within Public Highway



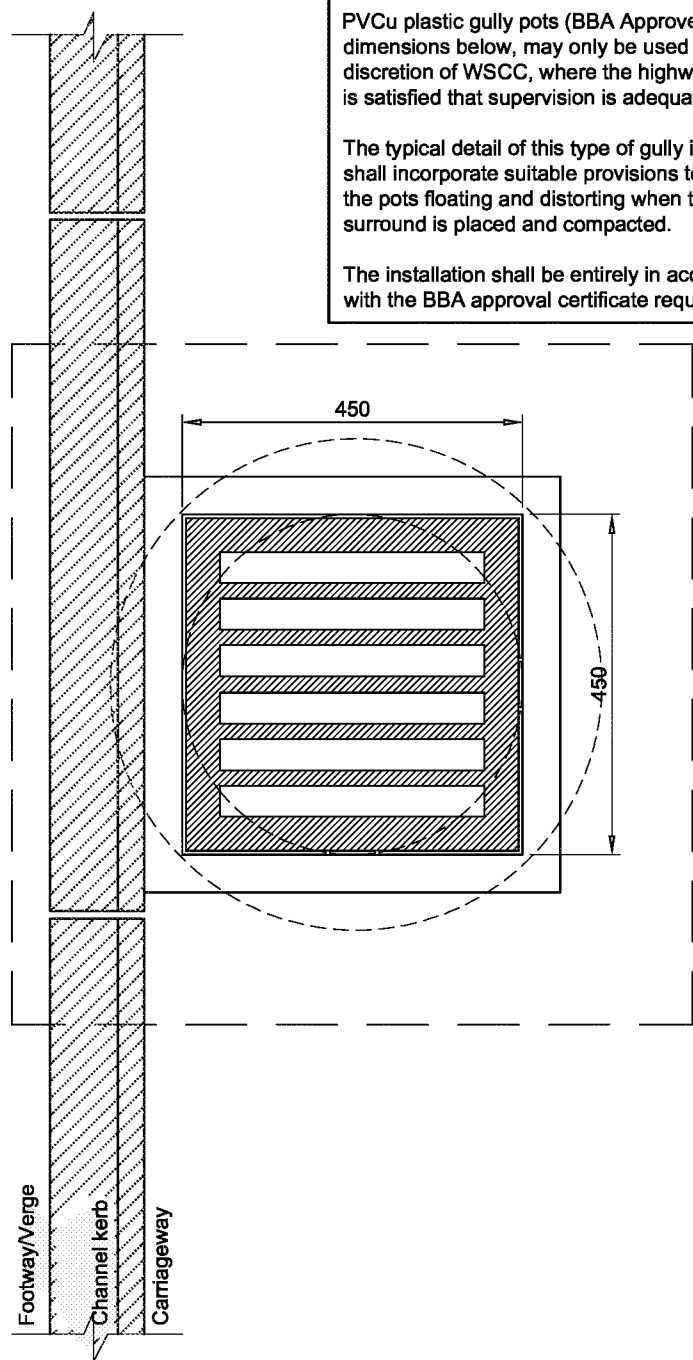
Drawing Size :	A3
Scale :	As Shown
Dimensions :	
Drawing No.	Rev
S278/38/10	A

ALTERNATIVE GULLY POT.

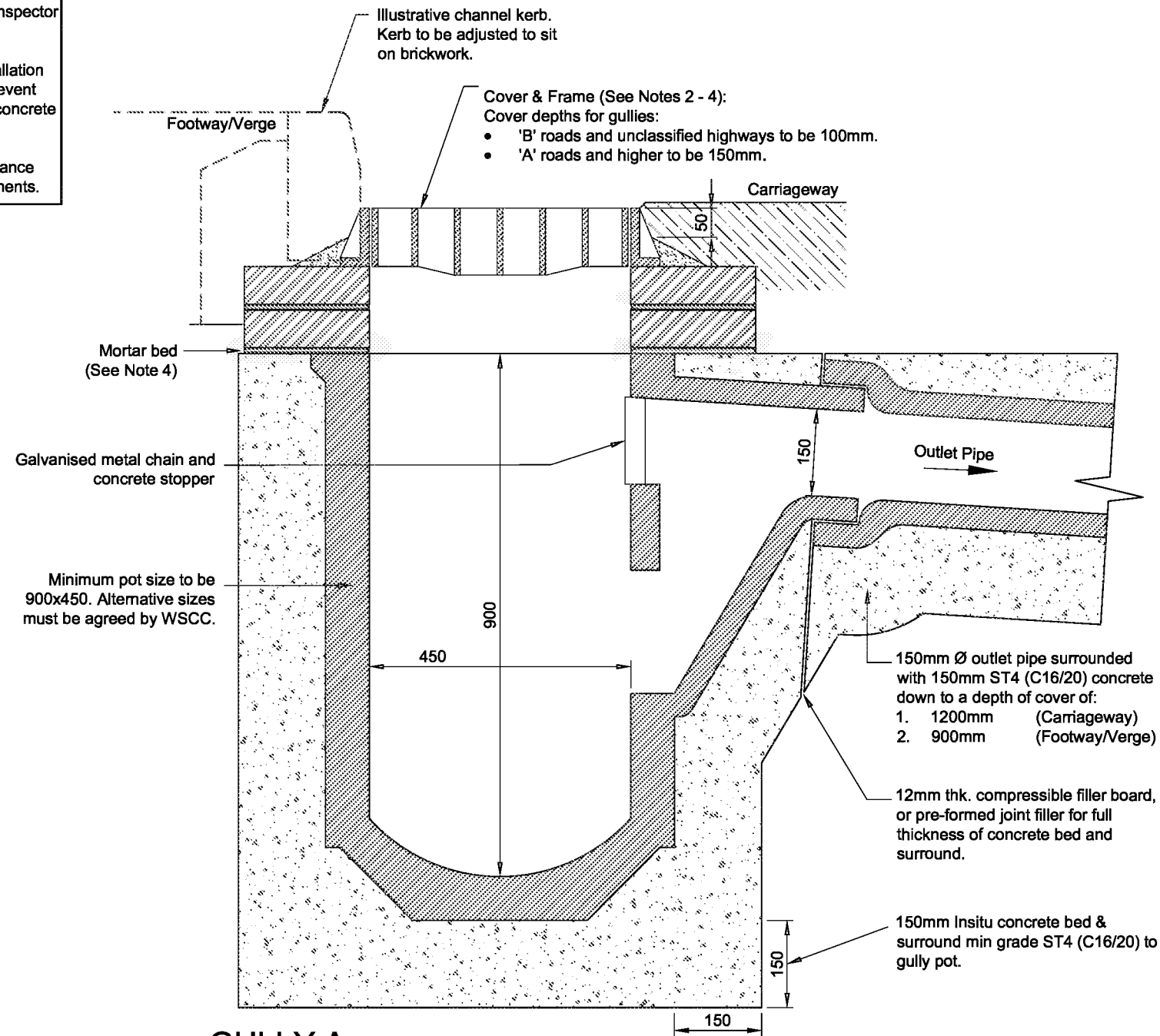
PVCu plastic gully pots (BBA Approved) of the dimensions below, may only be used at the discretion of WSCC, where the highway inspector is satisfied that supervision is adequate.

The typical detail of this type of gully installation shall incorporate suitable provisions to prevent the pots floating and distorting when the concrete surround is placed and compacted.

The installation shall be entirely in accordance with the BBA approval certificate requirements.



GULLY A
TYPE: PRECAST CONCRETE
PLAN
(1:10)



GULLY A
TYPE: PRECAST CONCRETE
SECTION
(1:10)

- NOTES**
1. Do not scale from this drawing.
 2. All gully grating and frames to be 'hinged' heavy duty ductile iron minimum grade D400 in accordance with BS EN124:1994 & Section 508 of the Specification of Highway Works.
 3. All ironwork shall carry a BSI kite mark.
 4. Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to Cl.2402 of SHW Mortar Designation (i), and either 2 or 3 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
 5. Gully spacing is to be determined from the requirements of HA 102/00, Design Manual for Roads and Bridges, however, maximum area to be drained by one gully: 180 m²
 6. Gully pots used for carriageway gullies shall be of precast concrete using Sulphate Resisting Cement (SRC) in accordance with BS 5911, part 230, 2004.
 7. All gullies to be trapped. Any variations to this i.e. 'non-trapped', 'gully chute' or 'grip' must be qualified and WSCC shall review each location on an individual basis.
 8. Selection of gully grating type shall be to suit the application area i.e. carriageway, footway/cycleway and to the satisfaction of the highway inspector.
 9. Pipe bedding to highway drainage to be Type Z when located under carriageway, and Type T at all other times, as detailed on Specification of Highway Works HCD no. F1.

SURFACE WATER PIPES

Permitted Types as follows:

CLAY: (100Ø-1200Ø)
All pipe shall be Vitrefied Clayware to BS EN 295-1:1991.

UPVC: (100Ø-1100Ø)
All pipes shall be to BS EN 1401-1:1998.
All pipes shall be ribbed 'twin wall' to provide a suitable network (pipes & couplings).

CONCRETE: (300Ømin)
All pipes shall be made with Sulphate resistant Cement to BS 5911-1:2002

- ALL jointing and installation shall be undertaken to manufacturers specification.
- ALL materials shall be BBA certified.
- ALL materials shall comply with the Specification for Highway Works.

A	Notes & drg layout amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

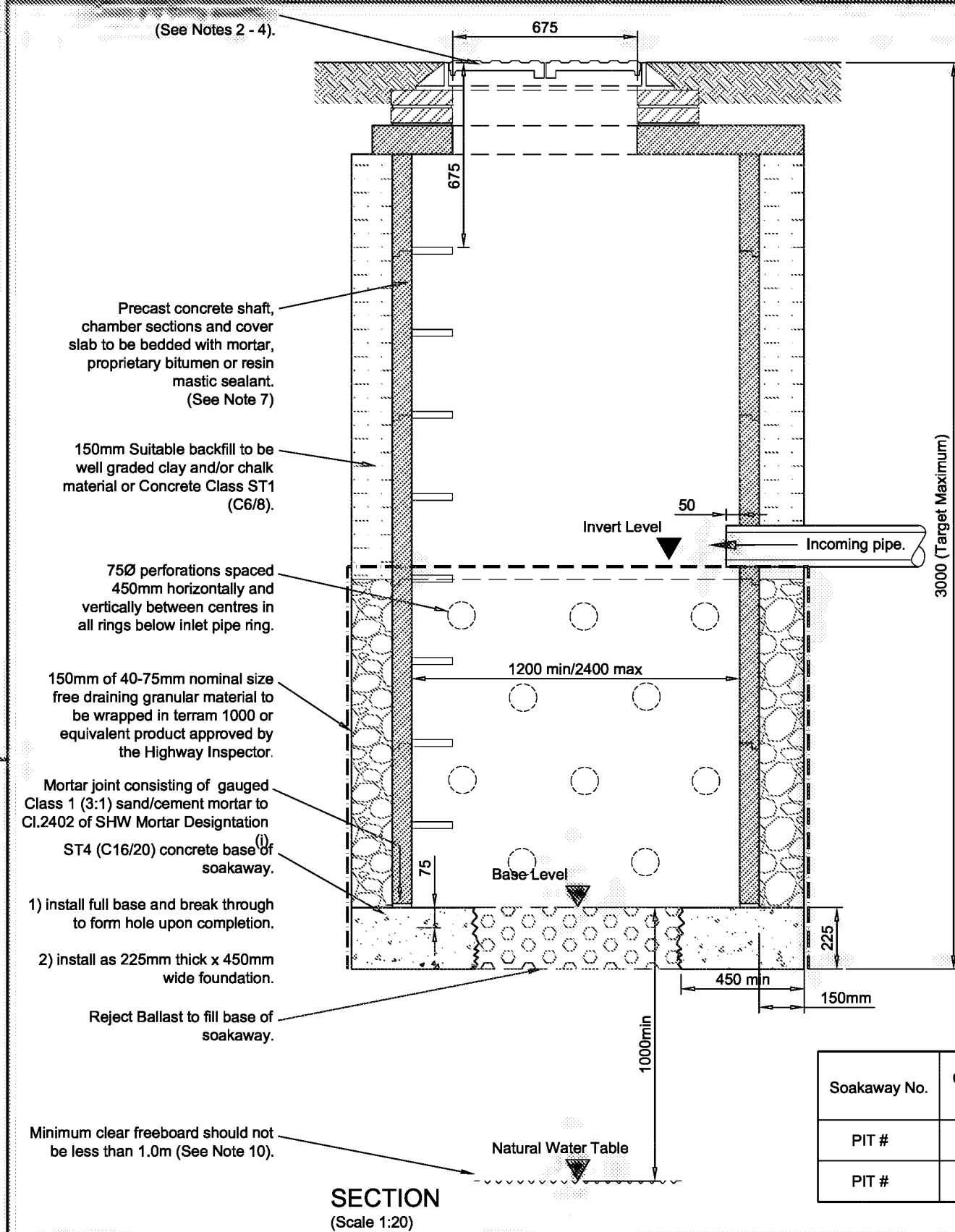
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Project Name	Section 278/38 Highway Agreement Standard Details
Drawing Title	Drainage Gully A - Pre-Cast Concrete

APPROVED

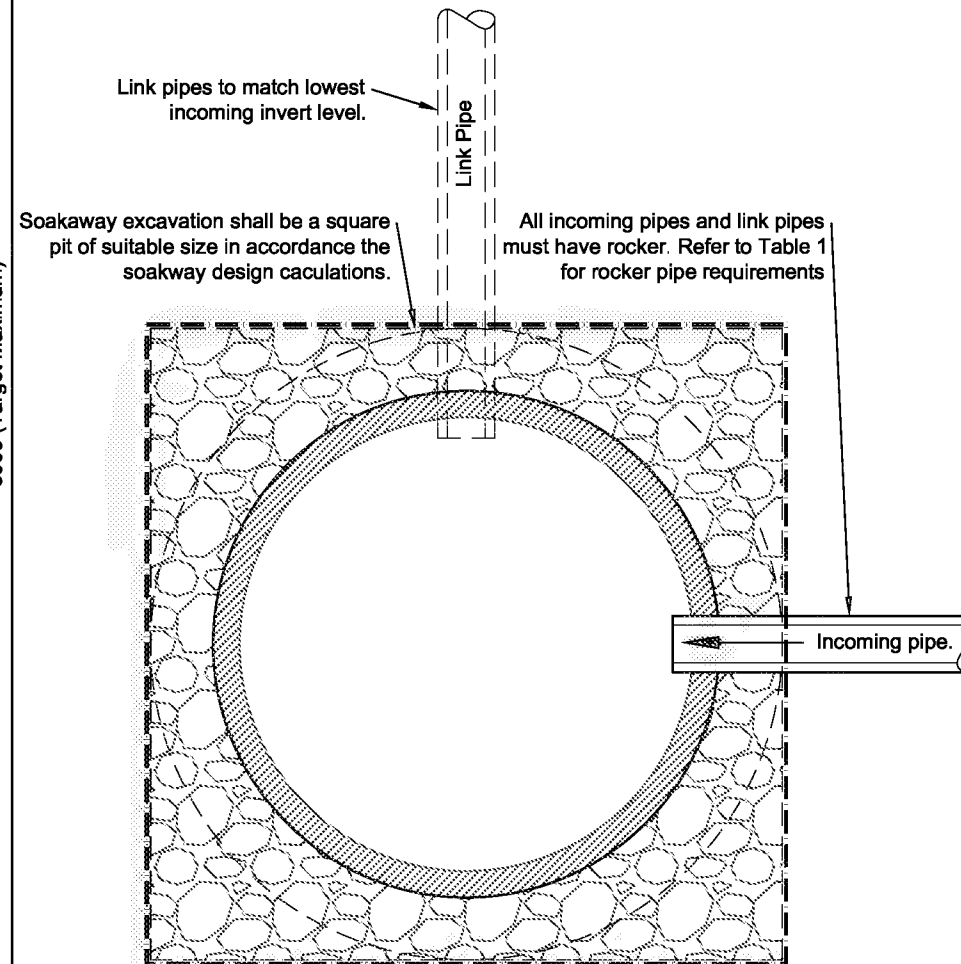
DECEMBER 2015
CONTRACTOR TO ENDORSE LATEST REVISIONS ARE USED

Size : A3
Scale : As Shown
Dimensions :
Drawing No. S278/38/11
Rev A



NOMINAL DIAMETER	ROCKER PIPE LENGTH
150 - 600mm	0.6m
>600 - 750mm	1.0m
>750mm	1.25m

TABLE 1



Example Soakaway Schedule

Soakaway No.	Catchment Area (m ²)	Soakaway Cover Level (m)	Soakaway Base Level (m)	Soakaway Ring Dia (m)	Pit Size (m)	Incoming Invert (m)	Effective Depth (m)	Total Depth (m)
PIT #	###	###	###	Type # ###Ø	###	###	###	###
PIT #	###	###	###	Type # ###Ø	###	###	###	###

ALL LEVELS SHOULD BE RELATED TO ORDNANCE SURVEY DATUM.

NOTES

- Do not scale from this drawing.
- Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 675mm clear opening.
- Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways.
- Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to Cl.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
- Steps for manholes and other chambers shall be Type D Class 1, complying with the requirements of BS EN 13101: 2002.
- Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
- On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- The design criteria shall be agreed with WSCC. Drainage strategy and flood risk reports shall be provided. In the absence of this information the designer shall ensure compliance as follows:
 - Site Investigation Report.
 - Infiltration Test Results.
 - Design Calculations in accordance with BRE365 or CIRIA 156.
 - Design for 1:100yr Return Period and include an allowance for climate change.
 - Environment Agency consent.
- Where multiple soakaways are to be linked via pits at the same location, the minimum spacing must be equal to the excavated pit size.
- Soakaways to be sited clear of the footways and service margins in order to avoid obstructing the route of public utilities.
- Locations within verges and other adoptable areas should be chosen, in preference to the carriageway.
- Ground water monitoring may be necessary to establish highest seasonal variation. Where 1m of unsaturated ground below soakaway cannot be achieved, seek advice from WSCC.

C	Text removed from sample table	DJL	DJL	25.11.14
B	Table 1 and mortar base joint	DJL	DJL	13.05.14
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn: MJA			For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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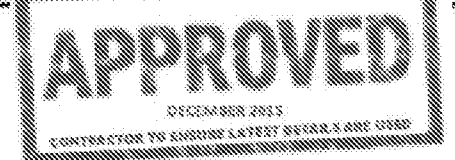


Project Name

Section 278/38 Highway Agreement
Standard Details

Drawing Title

Drainage
Precast Concrete Ring Soakaway



Original Drawing Size: A3
Scale: As Shown Dimensions:

Drawing No. S278/38/12 Rev C

DIAMETER OF LARGEST PIPE	INTERNAL DIA. OF MANHOLE
<375mm	1200mm
375 - 700mm	1500mm
750 - 900mm	1800mm

TABLE 1.

NOMINAL DIAMETER	ROCKER PIPE LENGTH
150 - 600mm	0.6m
>600 - 750mm	1.0m
>750mm	1.25m

TABLE 2

Note: Opening to be offset from centre by approximately 200mm for 1200mm diameter shaft with rungs/ladder.

Maximum depth from cover level to soffit of pipe 3.0m.

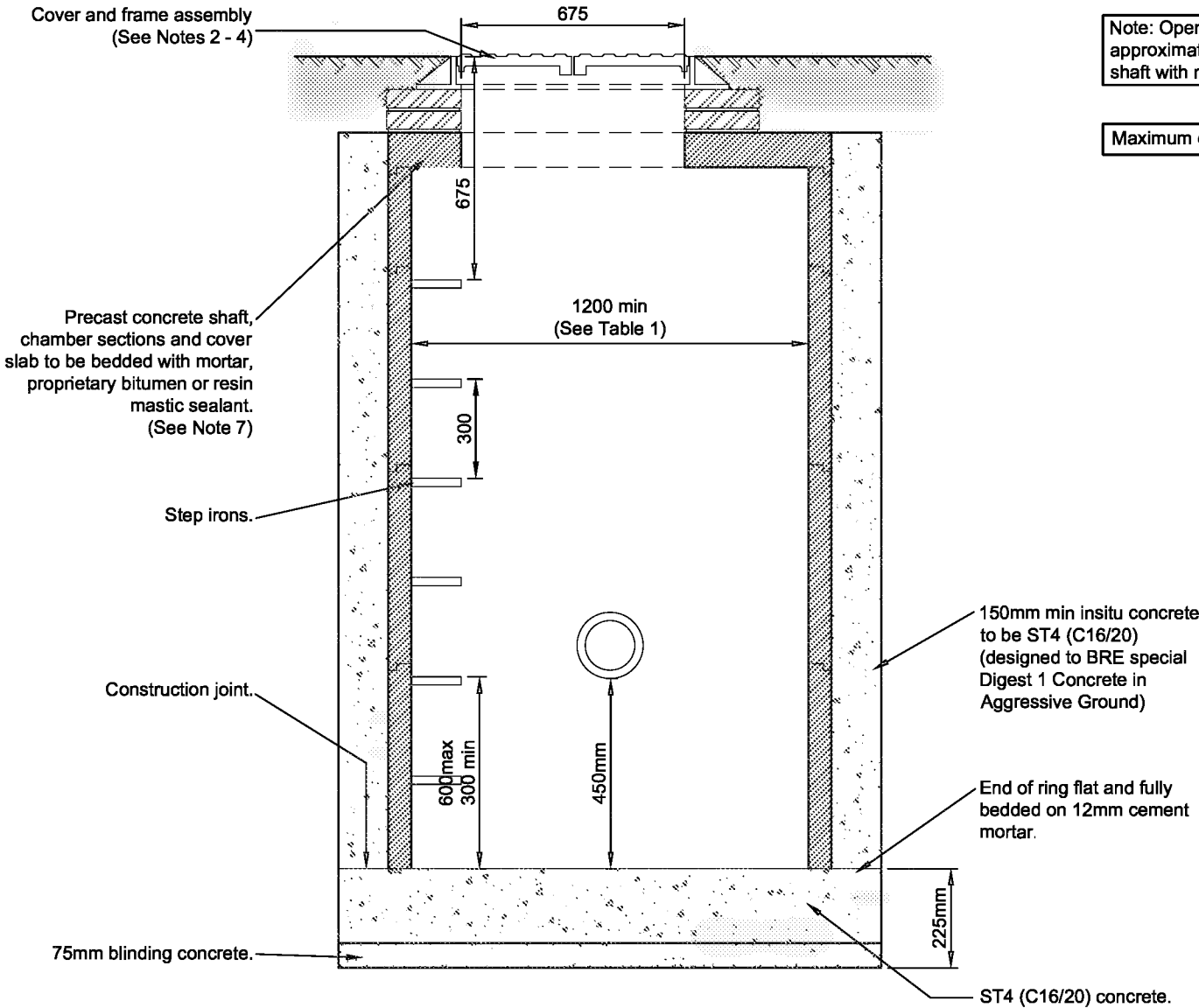
Joint to be as close as practicable to face of manhole to permit satisfactory joint and subsequent movement.

Rocker pipe

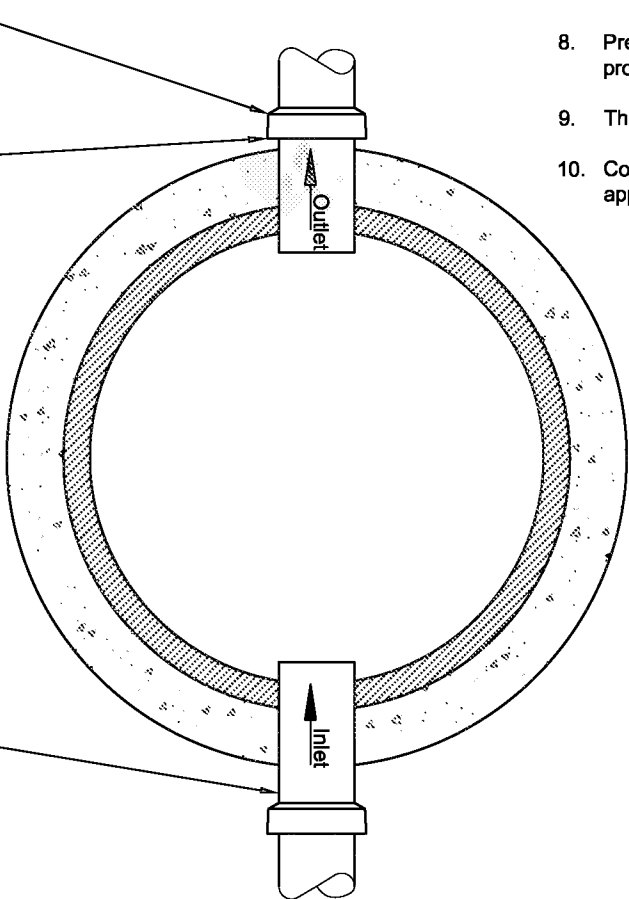
Short length pipe to be similar length to rocker pipe (See Table 2).

NOTES

- Do not scale from this drawing.
- Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 675mm clear opening.
- Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways.
- Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to Cl.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
- Steps for manholes and other chambers shall be Type D Class 1, complying with the requirements of BS EN 13101: 2002.
- Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
- On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- The number of incoming branches and invert levels may vary.
- Cover and frame may be installed as a 'gully top' where appropriate.



SECTION
(Scale 1:20)



PLAN
(Scale 1:20)

B	Notes amended	DJL	DJL	13.05.15
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn: MJA			For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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west
sussex
county
council

Project Name

Section 278/38 Highway Agreement
Standard Details

Drawing Title

Drainage
Type B Catchpit

APPROVED

DECEMBER 2013
CONTRACTOR TO ENSURE LATEST DETAILS ARE USED

Original Drawing Size : A3

Scale : As Shown

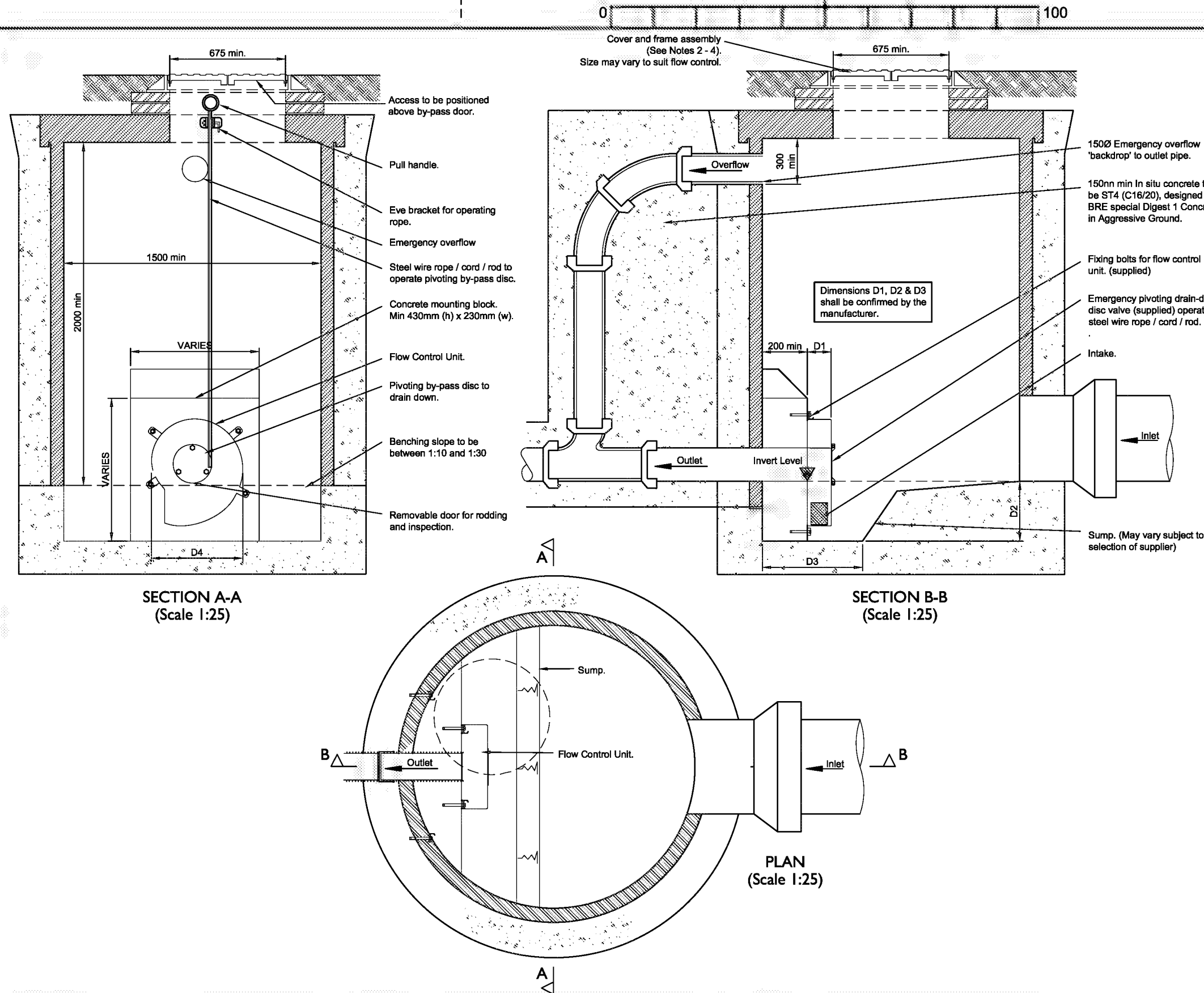
Dimensions :

Drawing No.

S278/38/13

Rev

B



NOTES

- Do not scale from this drawing.
- Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 675mm clear opening.
- Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways.
- Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to CI.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
- Steps for manholes and other chambers shall be Type D Class 1, complying with the requirements of BS EN 13101: 2002.
- Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
- On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
- Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
- The applicant must obtain an approval in principle with WSCC for use of such flow control. The design 'performance' shall be agreed with WSCC (head/flow). Drainage strategy and flood risk reports shall be provided. In the absence of this information evidence shall be provided to demonstrate historic and/or Greenfield flows.
- The flow control quotation and specification, and chamber details shall be supplied to WSCC in order that the 'commuted sum' can be calculated.
- The chamber shall be of suitable size, type and construction relative to the flow control unit dimensions. The chamber must be installed in strict accordance with the supplier recommendations. Any variations shall be reported to WSCC.
- All flow control manholes shall include an emergency overflow located just under the biscuit. This shall be a minimum 150Ø. The overflow is only permitted to operate during exceedance events in excess of 1:30yr+30% climate change.

A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
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Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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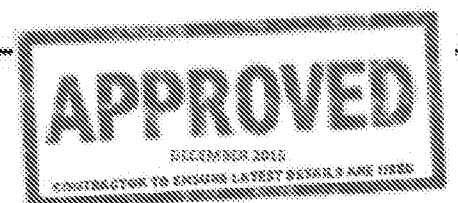


Project Name

Section 278/38 Highway Agreement
Standard Details

Drawing Title

Vortex Flow Control
Type B Manhole



Original Drawing Size: A3

Scale: As Shown

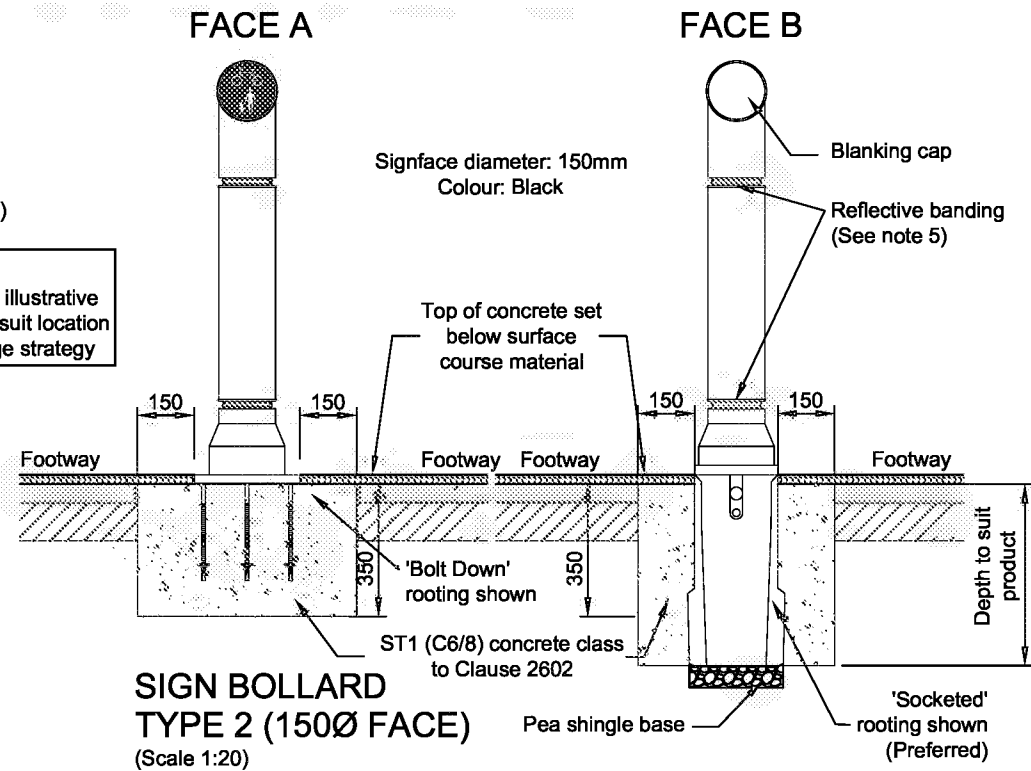
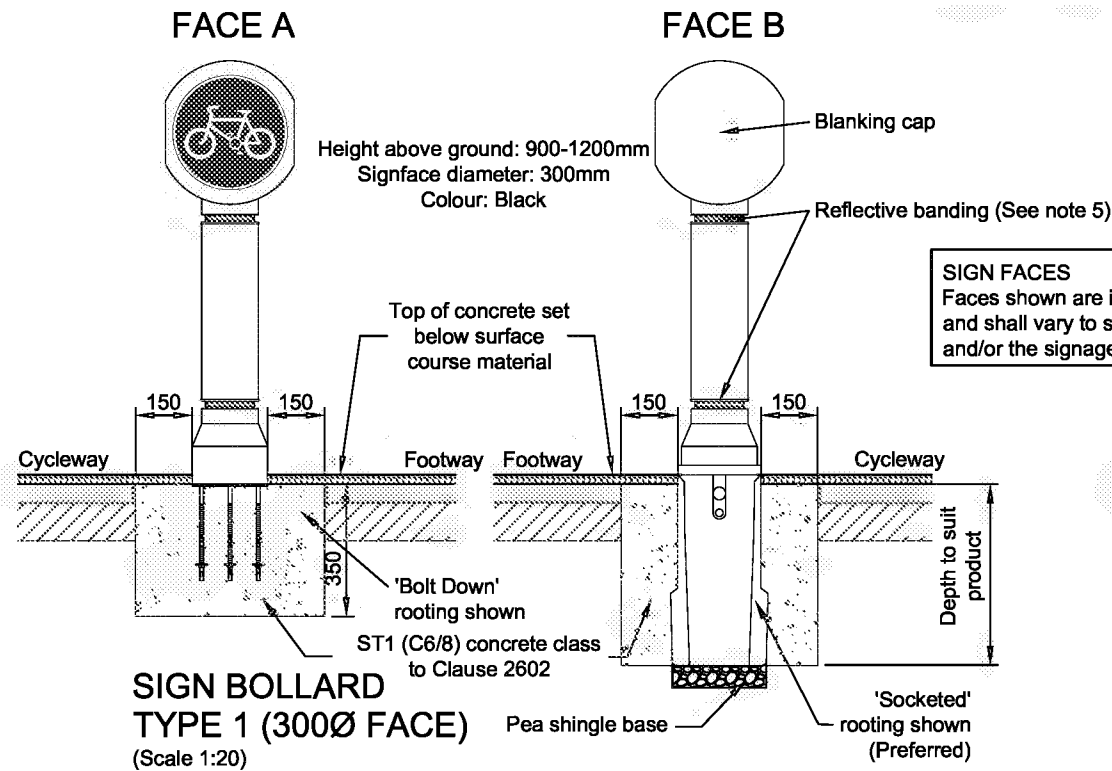
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Drawing No.

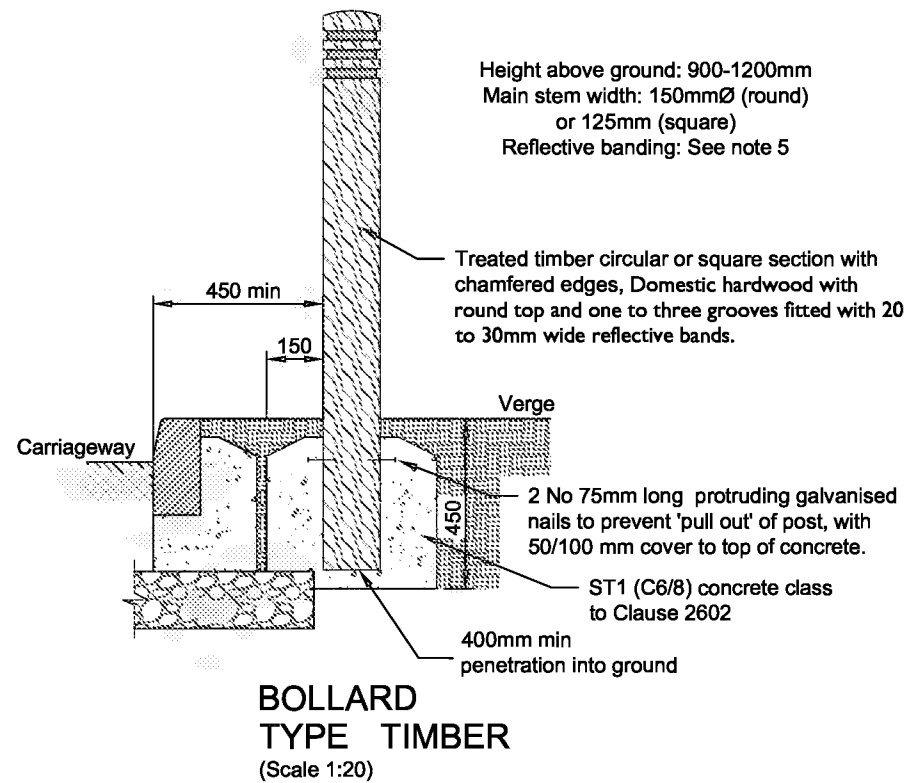
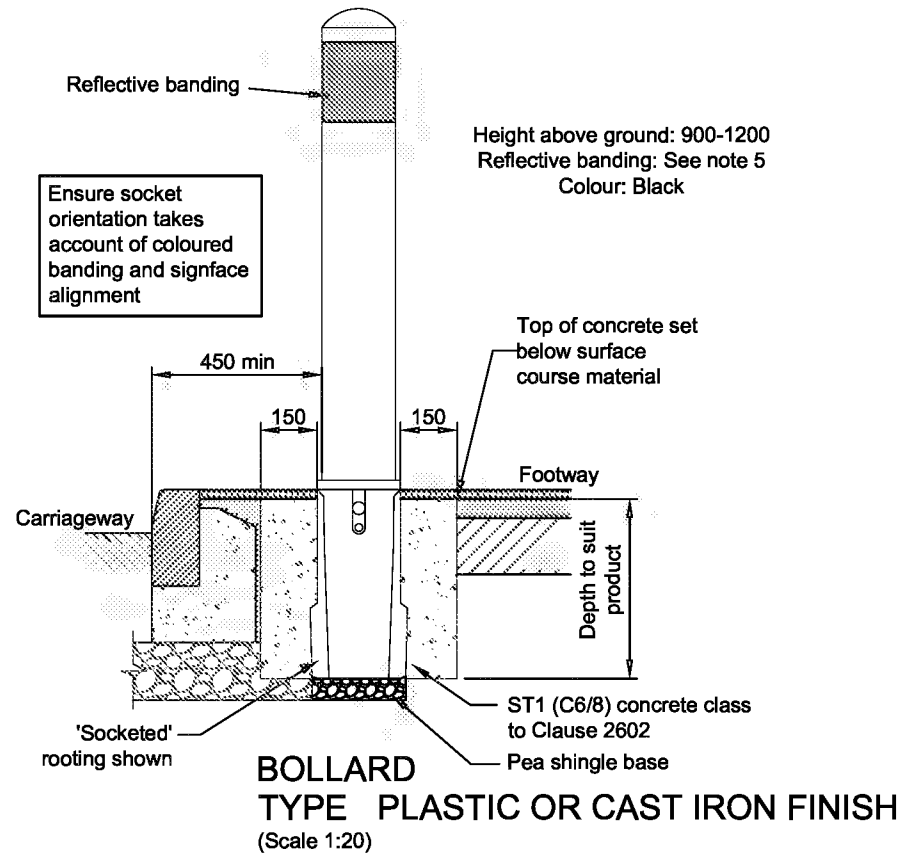
S278/38/14

Rev

A



- NOTES**
- Do not scale from this drawing.
 - This drawing must be used in conjunction with engineers sign/bollard location plan and sign face schedule.
 - All bollards must be installed with reflective banding.
 - All unused faces must be installed with a blanking cap.
 - Reflective banding shall be reflective to class ref 2 requirements and be coloured red on the left hand edge of the carriageway as viewed by the drivers of approaching vehicles, and coloured white on the right hand edge of the carriageway when so viewed, except where the edge is the edge of a dual carriageway or one way road whereupon the colour shall be amber.



- BOLLARD REQUIREMENTS:**
- Bollards are to be installed in strict accordance with manufacturers specification.
 - Sign face bollards shall be in accordance with The Traffic Signs Regulations and General Directions document.
 - Bollards may be installed as either 'socketed' (preferred) or 'bolt down'.
 - Selection of bollard type may be dependant on planning requirements and location and shall be agreed by WSCC.
 - For plastic or cast iron bollards the standard colour shall be black, unless otherwise agreed by WSCC.
 - Fixed and/or removable bollard types must be clearly annotated on the plan drawings.

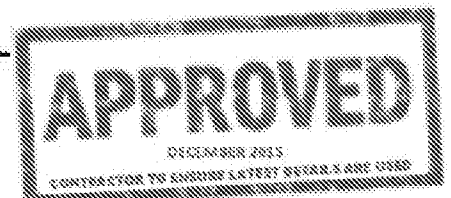
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A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
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Appd:			For construction	
Date:			As constructed	
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IWP Ref:				

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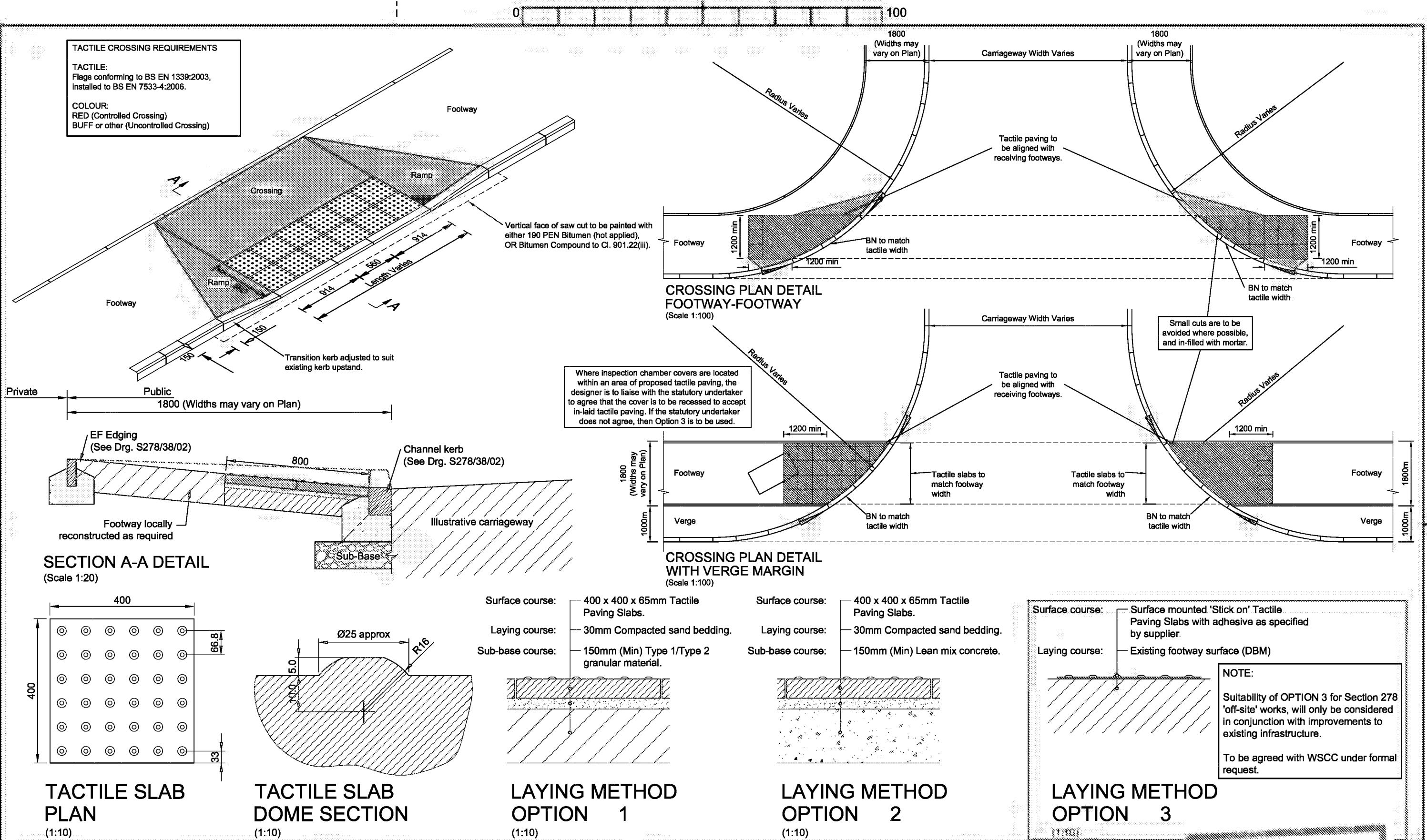


Project Name
Section 278/38 Highway Agreement
Standard Details

Drawing Title
Street Furniture
Bollards



Original Drawing Size :	A3
Scale :	As Shown
Dimensions :	
Drawing No.	Rev
S278/38/17	B



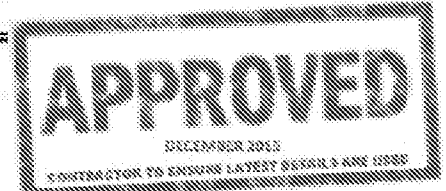
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
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IWP Ref:				

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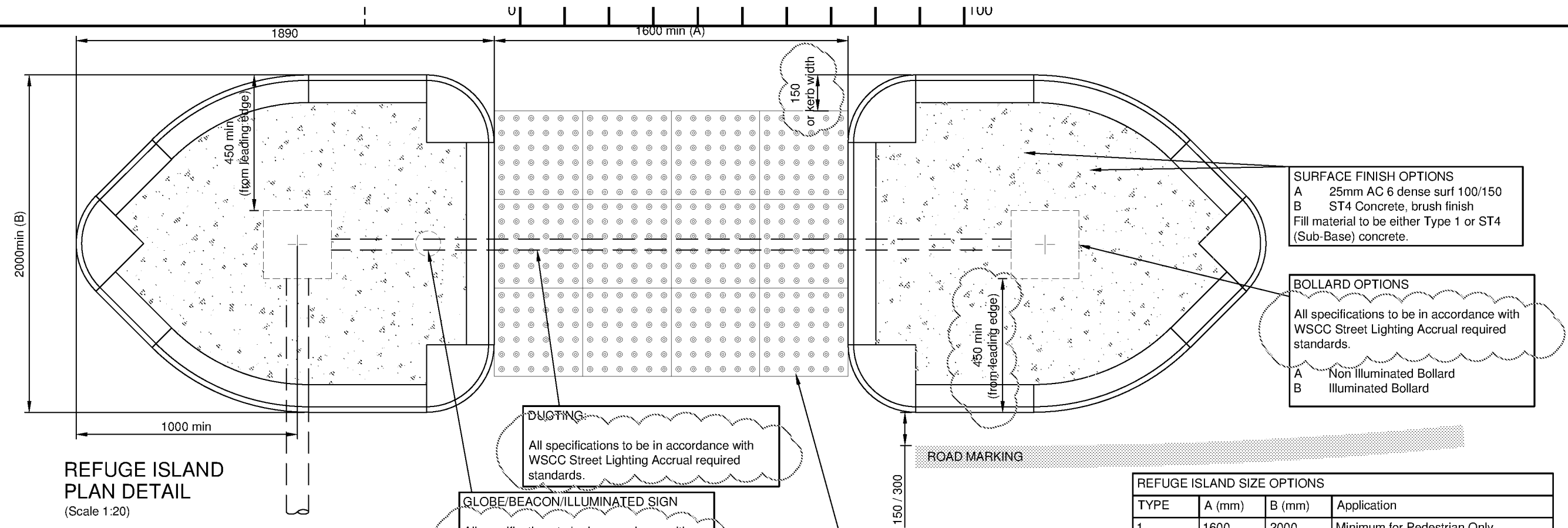


Project Name
Section 278/38 Highway Agreement
Standard Details

Drawing Title
Street Furniture
Tactile Crossings



Original Drawing Size :	A3
Scale :	As Shown
Dimensions :	
Drawing No.	S278/38/18
Rev	A



REFUGE ISLAND
PLAN DETAIL
(Scale 1:20)

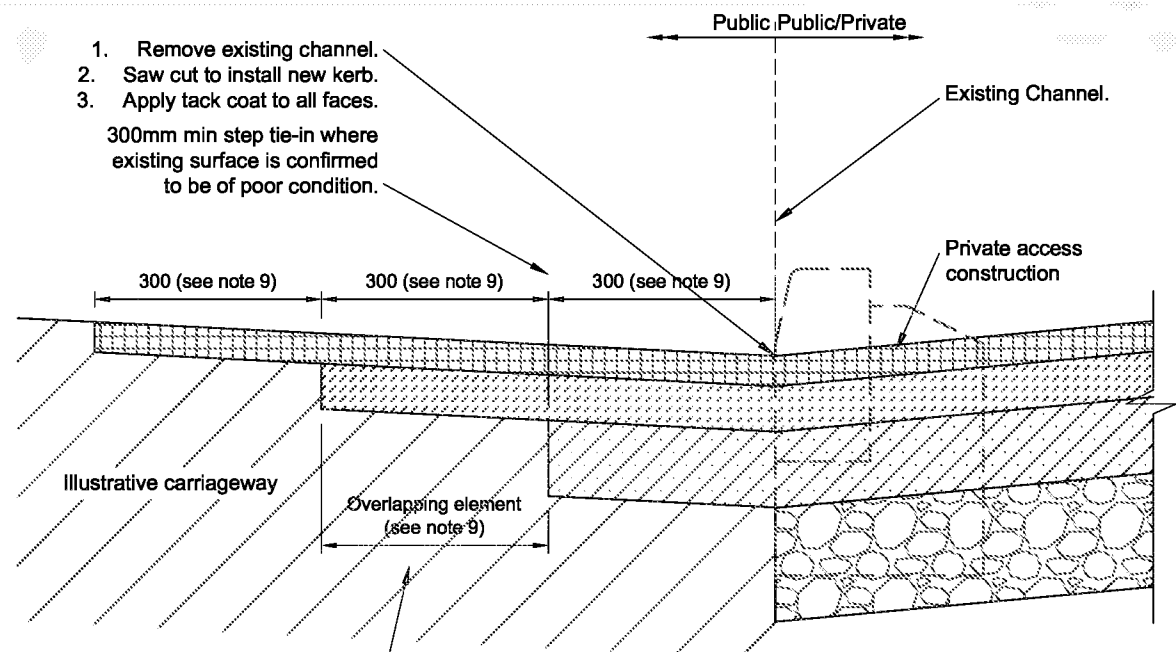
REFUGE ISLAND SIZE OPTIONS			
TYPE	A (mm)	B (mm)	Application
1	1600	2000	Minimum for Pedestrian Only
2	2400	2500	Minimum for Pedestrian & Cyclist

- DESIGN CONSIDERATIONS
- The minimum lane width shall be 3.2m.
 - Absolute minimum lane width 3.0m (less than 5% HGV) lightly trafficked. Minimum kerb to kerb width for snow plough 3.5m
 - Avoid lane widths between 3.2m - 4.0m.
 - Road markings warning line offset to be 300mm. This may be reduced to a minimum of 150mm where speed limit is 40mph or less
 - Future maintenance requirements.
 - Kerb heights should not normally exceed 75mm.
 - Departures from Standard approval will be required for speed limits in excess of 40mph.
 - Swept path analysis shall be provided.
 - Consultation with local residents i.e. impacts to private accesses.
 - Islands should be surfaced in a material that contrasts with the existing road surface.

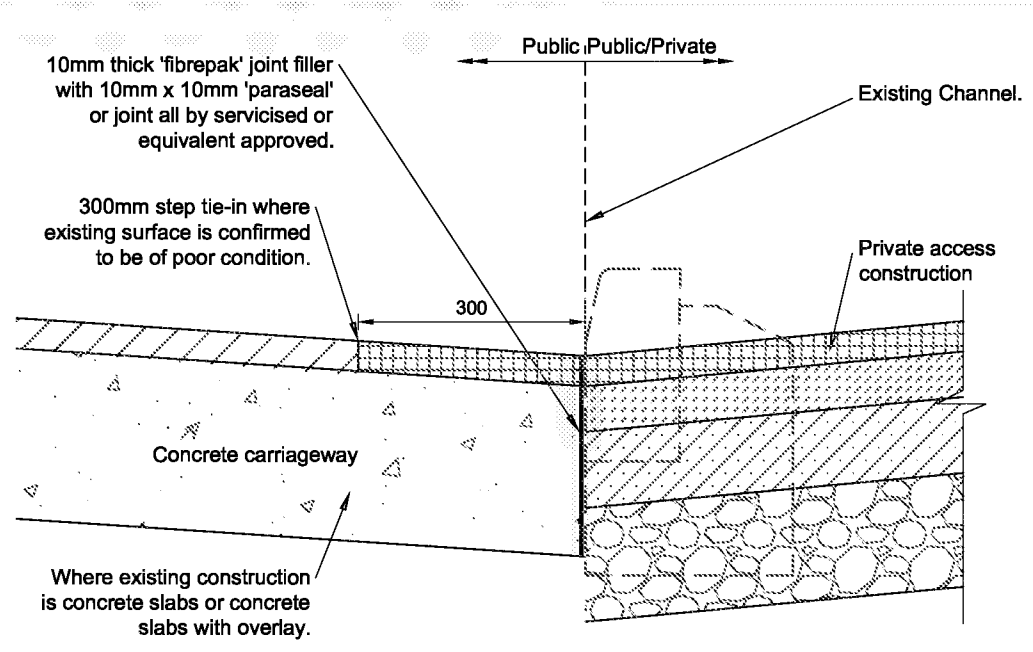
Islands not conforming with WSCC refuge island size options will only be accepted with supporting designers risk assessment and may require an independent Road Safety Audit.

- NOTES
1. Do not scale from this drawing.
 2. Refer to drawing 18 for Tactile Paving specification.
 3. WSCC illuminated equipment is subject to PFI requirements.
 4. Dimensions in mm except where otherwise stated

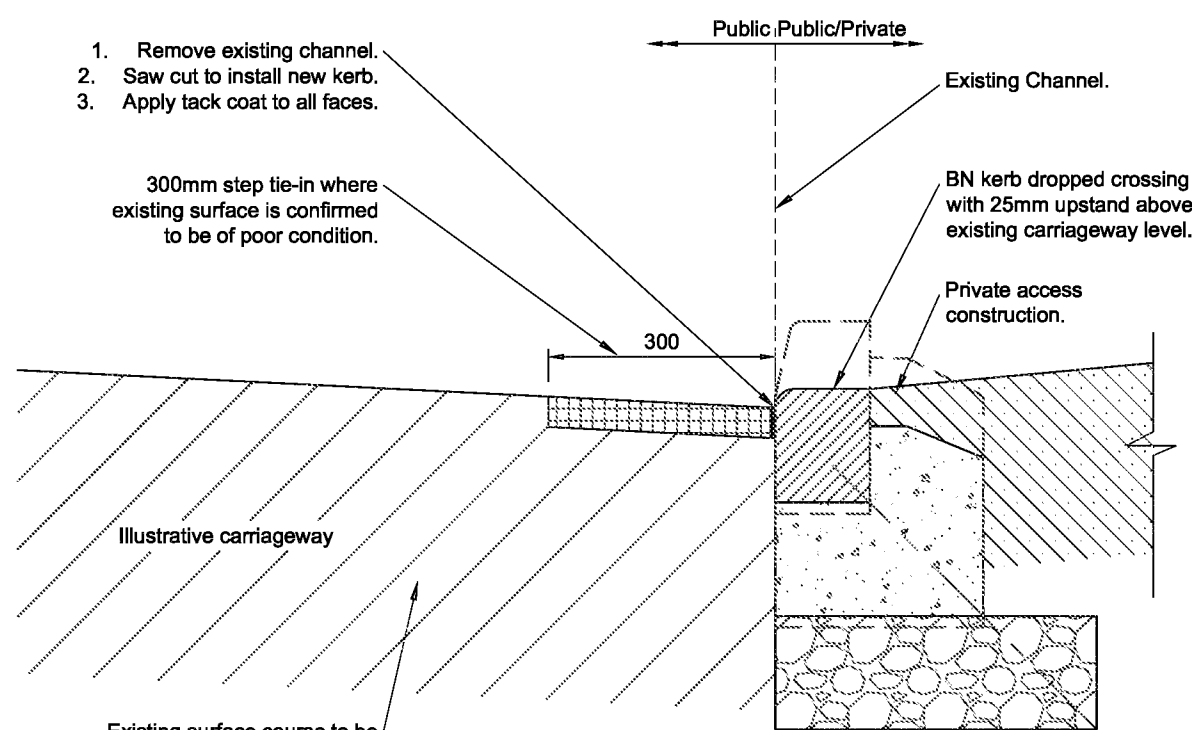
D C B Clouded revisions 'SSE' replaced by 'TVL' Snow plough + wide load notes DJL CD DJL DJL DJL GM 14.12.15 10.10.14 09.09.13	West Sussex County Council Infrastructure Group County Hall, West Street Chichester West Sussex PO19 1RH (01243) 642105	Project Name Section 278/38 Highway Agreement Standard Details Drawing Title Street Furniture Refuge Islands	APPROVED DECEMBER 2015 CONTRACTOR TO ENSURE LATEST DETAILS ARE USED Original Drawing Size : A3 Scale : As Shown Dimensions : Drawing No. S278/38/19 Rev D
Rev Revision details Chkd Appd Date Drawn: MJA Chkd: Appd: Date: File ref: IWP Ref: For comment For tender For construction As constructed			



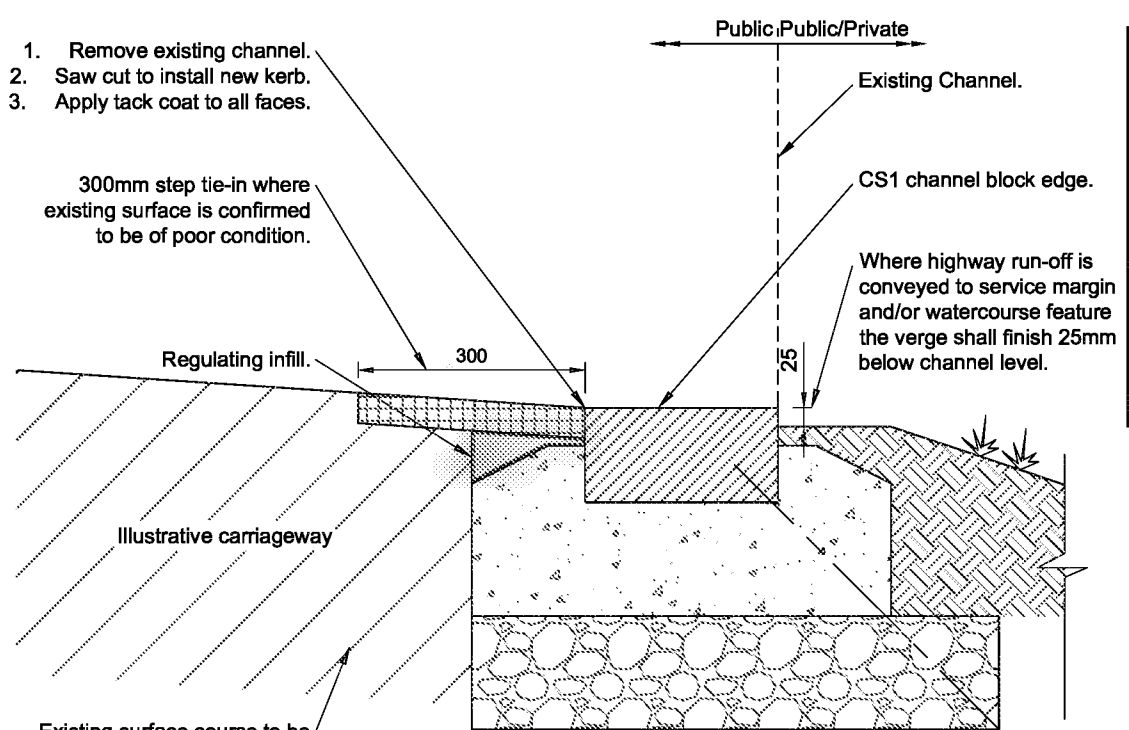
**CARRIAGEWAY TIE-IN
OPTION 1**
(1:10)



**CARRIAGEWAY TIE-IN
OPTION 2**
(1:10)



**CARRIAGEWAY TIE-IN
OPTION 3**
(1:10)



**CARRIAGEWAY TIE-IN
OPTION 4**
(1:10)

- NOTES**
1. Do not scale from this drawing.
 2. Refer to drawings 02 & 03 for Approved Kerb Type Selection.
 3. Refer to drawing 01 for laying methods.
 4. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
 5. The Highway Inspector may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
 6. The Highway Inspector may increase the Sub-base depth or include a geotextile or geogrid on formation where site ground conditions are considered to be sub-standard.
 7. Not suitable where 'no-dig' construction is required.
 8. Refer to drawing 21 for Carriageway Surfacing Options.
 9. Overlapping elements of stepped joints shall normally be 300mm except where this places the joint in the wheel track, whereupon on C class and unclassified roads the overlap may be reduced to 150mm, and on A and B class roads the overlapping elements shall be extended in accordance with IAN 154/12. Any overlapping elements less than 300mm shall be agreed with the WSCC Engineer and/or WSCC Inspector.

EXTRACT FROM IAN 154/12:
For new pavement construction, all longitudinal joints in all layers shall be situated outside wheel-track zones. Where an existing road pavement is resurfaced, joints in the surface course shall coincide with either the lane edge, the lane marking, or the middle of a traffic lane, whichever is appropriate. Joints shall not coincide with the wheel path. **The wheel-track zones shall be taken to be between 500mm and 1100mm and between 2550mm and 3150mm from the centre of the nearside lane markings for each traffic lane (or, in the absence of lane markings, lane edges).** All joints shall be offset at least 300mm from parallel joints in the layer beneath.

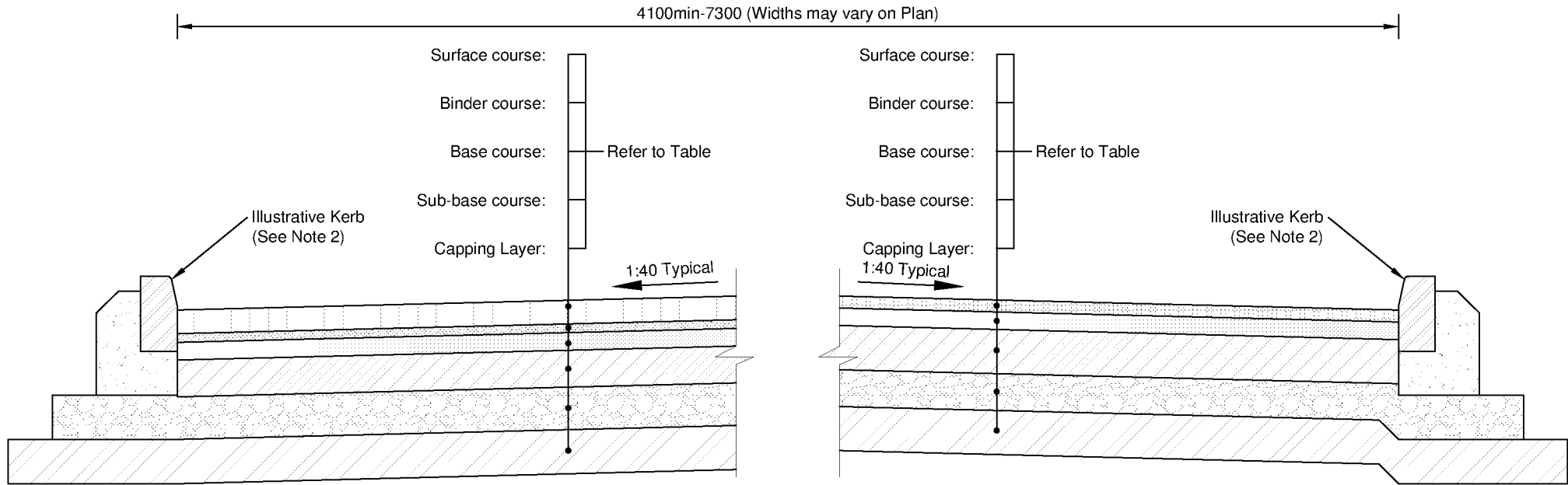
B A	IAN 154/12 extract corrected Notes amended	CD DLS	DJL MJA	05.09.13 28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
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Date:			As constructed	
File ref:				
IWP Ref:				

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Project Name	Section 278/38 Highway Agreement Standard Details
Drawing Title	Carriageway Tie-In Options

DECEMBER 2013
CONTRACTOR TO EXAMINE LATEST VERSIONS AND USED

Size :	A3	
Scale :	As Shown	Dimensions :
Drawing No.	S278/38/20	Rev
		B



TYPE 1
FLEXIBLE CONSTRUCTION
(Scale 1:20)

ALTERNATIVE DESIGN:
WSCC will accept permanent foundation designs in accordance with the latest revision of Interim Advice Note 73/06

CARRIAGEWAY - FLEXIBLE CONSTRUCTION TABLE SELECTOR					
		LOCAL DISTRIBUTOR See note 14	COLLECTOR	ACCESS ROAD	ACCESS WAY
CAPPING LAYER					
Type 6F1 / 6F2	CBR <2%	Bespoke design required in accordance with IAN 73/06			
Type 6F1 / 6F2	CBR 2-2.5%	600	600	600	600
Type 6F1 / 6F2	CBR 2.5-5%	350	350	350	350
Type 1	CBR >5%	100	100	100	100
SUB-BASE					
Type 1 (Clause 803)		150	150	150	150
BASE					
Either: 32mm Dense Asphalt Concrete Base 40/60 PEN		150	125	100	100
Or: Lean Mix Concrete		-	150	150	150
BINDER					
20mm Dense Asphalt Concrete Binder 40/60 PEN (Not required with block pavements)		60	60	50	50
SURFACE COURSE					
HRA 30/14 F Surf 40/60 with: • 14/20mm pre-coated chippings • PSV as table 3.1a (IAN 156/12) • Texture depth as Series 900 table 9/3		40	-	-	-
10mm Close Graded Asphalt Concrete Surface Course 100/150		-	30	30	30
Blocks on 30mm sand Bed		-	80	80	80

- NOTES
- Do not scale from this drawing.
 - Refer to drawings 02 & 03 for Approved Kerb Type Selection.
 - Refer to drawing 01 for laying methods.
 - Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
 - The Highway Inspector may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
 - The Highway Inspector may increase the Sub-base depth or include a geotextile or geogrid on formation where site ground conditions are considered to be sub-standard.
 - Not suitable where 'no-dig' construction is required.
 - Asphalt Concrete to be in accordance with BS EN 13108-01 and BS 594987.
 - Type 1 Sub-base to be in accordance with Specification for Highway Works clause 803.
 - Hot Rolled Asphalt to be in accordance with BS EN 13108-04 and BS 594987.
 - Block Pavements to be in accordance with BS EN 1338 and BS 7533-3:2005 (A1:2009).
 - Total Carriageway construction depth must be greater than 450mm to negate susceptibility to frost penetration, irrespective of CBR value.
 - Where block paved construction is proposed the binder course may be omitted.
 - More major roads shall have a bespoke pavement design in accordance with DMRB standards.
 - Carriageway widening to widths of less than 1m; Base and sub-base to be replaced with ST1 concrete with the same overall construction depth as the standard construction.
 - Under some circumstances, WSCC may accept 40mm of Bardon Superflex 50 with 10mm Aggregate (65 PSV) as a surface course, provided there is a 10 year guarantee on the skid resistance value (SRV).
 - On approaches to traffic signals WSCC may accept 45 +/- 5mm of Bardon Superflex 72 with 10mm Aggregate (72 PSV) as a surface course, subject to site specific approval
 - PSV shall be declared in accordance with IAN 156/12 table 3.1a.
 - CBR values to be obtained from site investigation report and laboratory testing only. In-situ testing shall not be used to determine or amend the design CBR. The WSCC Inspector may request additional tests. In situ CBR tests shall only be used to identify 'soft spots' in the construction.

C	Clouded revisions	DJL	DJL	14.12.15
B	Note 13 + Base detail amended	DJL	GM	09.09.13
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
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Date:			As constructed	
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Project Name
Section 278/38 Highway Agreement
Standard Details

Drawing Title
Carriageway
Flexible Specification

APPROVED

DECEMBER 2013

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Original Drawing Size :
A3

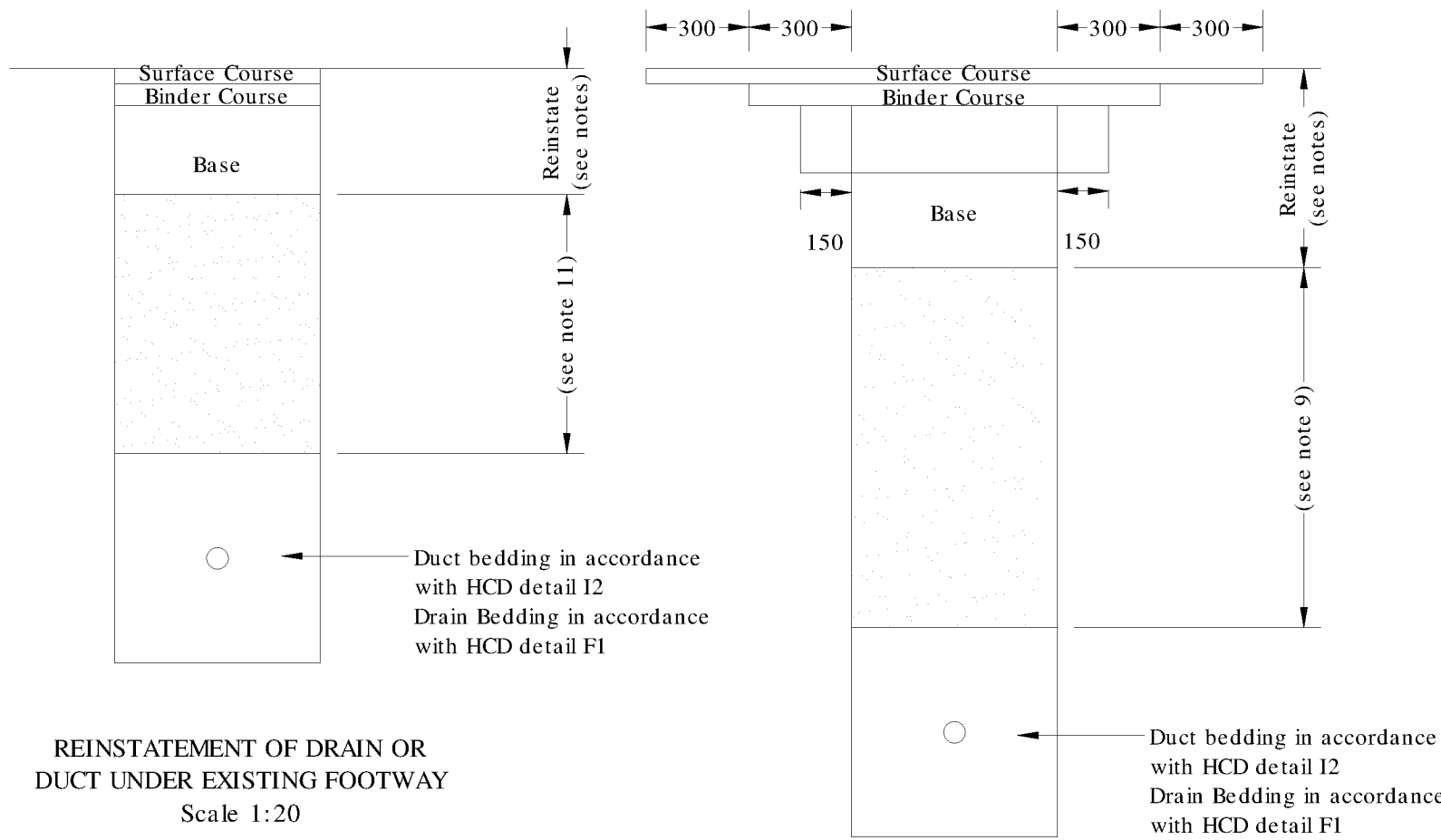
Scale :
As Shown

Dimensions :

Drawing No.
S278/38/21

Rev
C

ARUN DISTRICT COUNCIL LU234/16/RES

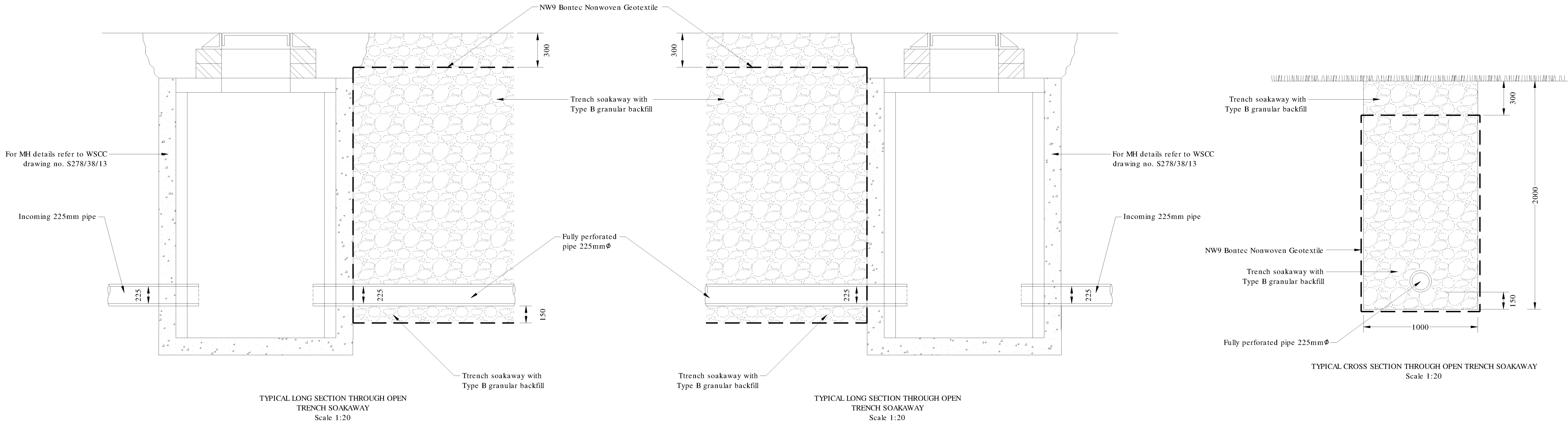


REINSTATEMENT OF DRAIN OR
DUCT UNDER EXISTING FOOTWAY
Scale 1:20

REINSTATEMENT OF DRAIN OR DUCT
UNDER EXISTING CARRIAGEWAY
Scale 1:20

NOTES

1. All dimensions are in millimetres.
2. The replacement of the road/footway structure shall be carried out as soon as practicable after backfilling has been completed.
3. The edge of the trench shall be cut to a uniform line consistent with the width required for the particular pipes or ducts being laid. Any part of the structure of the carriageway/footway beyond the width of the trench which has been damaged shall be cut out and made good.
4. The vertical joint through the surfacing layers shall be painted with hot 200 pen bitumen or cold applied bitumen compound to Clause 901.22 (iii).
5. Where the existing carriageway is not to be resurfaced and the surface consists of rolled asphalt an interim wearing course of bitumen macadam shall be laid on a sand screed release strip 5 thick except where otherwise directed. This interim course shall be removed at a later date. To be determined by the Engineer and replaced by rolled asphalt. Where the existing carriageway has chippings rolled into the surface.
6. The same size chippings shall be used in the reinstatement.
7. Polished stone values and aggregate abrasion values shall be as stated elsewhere in the contract.
8. Kerbs and channels shall be reinstated to the Engineers satisfaction.
9. Carriageway - Reinstatement to underside of base level in compacted Type 1 sub-base material to Clause 803 or mix ST1 concrete where trench width is 1m or less.
10. When base is laid in more than one layer, upper layer to be stepped by 150mm.
11. Footway - Reinstatement to underside of sub-base level in compacted Type 1 sub-base material to Clause 803 or mix ST1 concrete where trench width is 300mm or less.
12. Reinstatement shall accord with NRSWA HAUC Document, or as agreed with the Engineer/Highway Authority Specification.



TYPICAL LONG SECTION THROUGH OPEN
TRENCH SOAKAWAY
Scale 1:20

TYPICAL LONG SECTION THROUGH OPEN
TRENCH SOAKAWAY
Scale 1:20

TYPICAL CROSS SECTION THROUGH OPEN TRENCH SOAKAWAY
Scale 1:20

PRELIMINARY
NOT FOR CONSTRUCTION

rev.	amendment	checked	date
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MB
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client
PERSIMMON HOMES

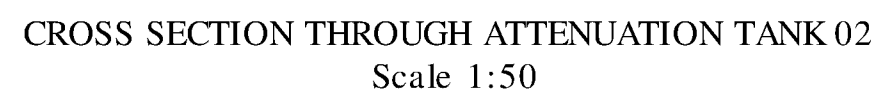
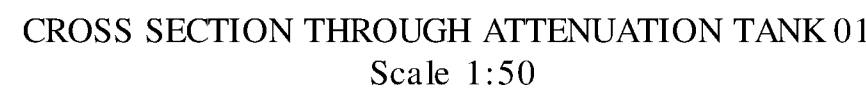
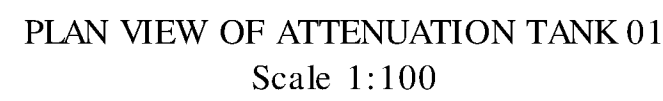
project
**NORTH LITTLEHAMPTON PHASE 2
FITZALAN LINK S278 WORKS**

scale	AS SHOWN	drawn by	PB	checked by	AB
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date	MARCH 2016	cad file	F01 & 02.DWG
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title
**STANDARD DETAILS DRAWING
(DRAWING 1 OF 5)**

drawing number	PHF-MB-S278-GF-DR-D-F/01	rev.	
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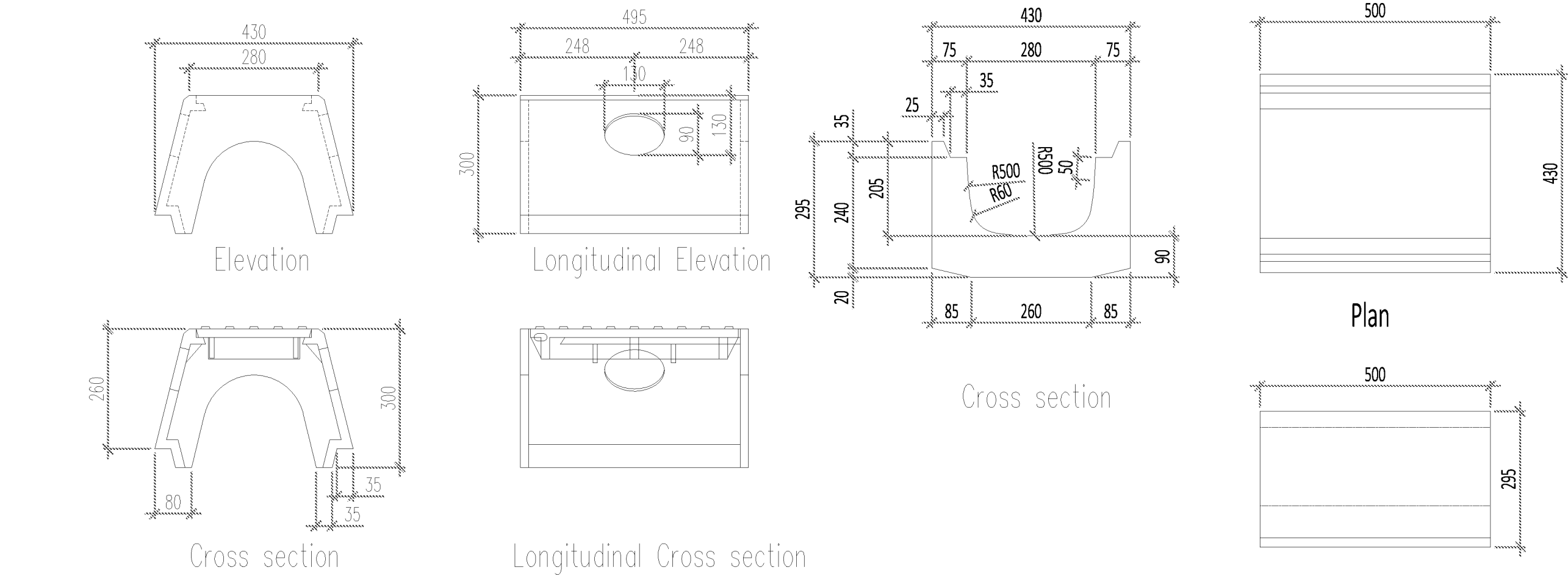


A1 ORIGINAL

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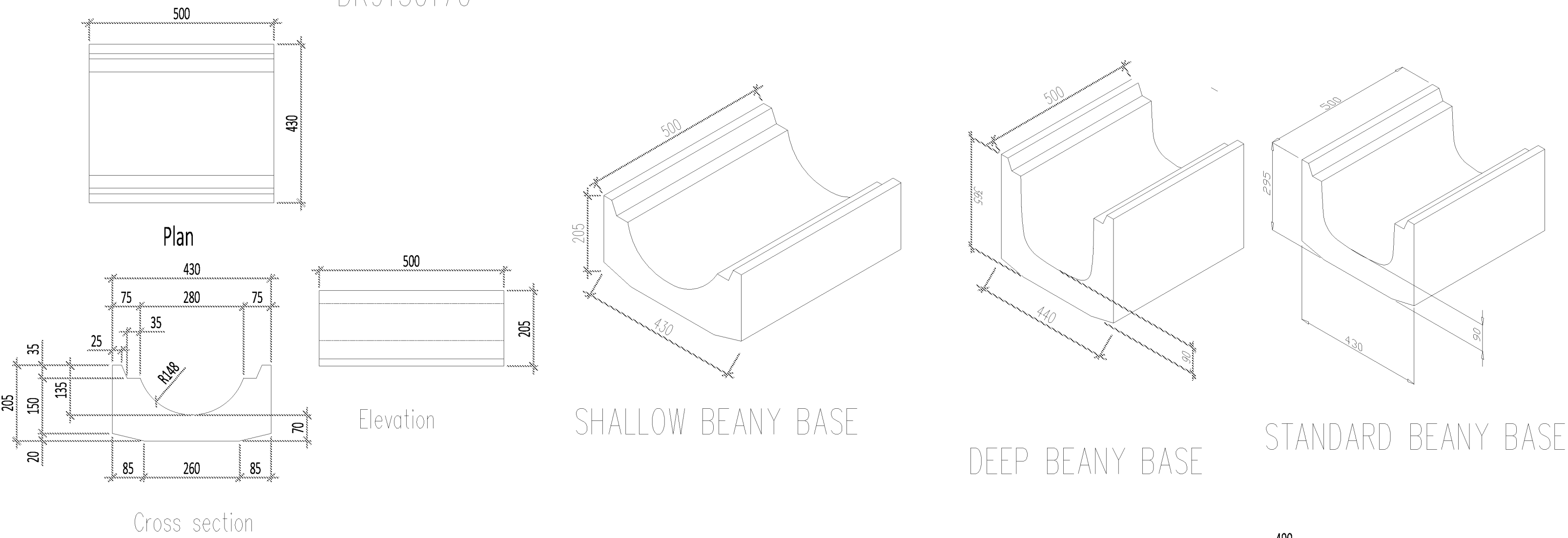
NOTES

- Details provided by Marshalls.
- Prior to installation Contractor to contact Marshalls (ref: 5437151) to discuss the required components.



Beany HB Universal Access Cover
DR9150170

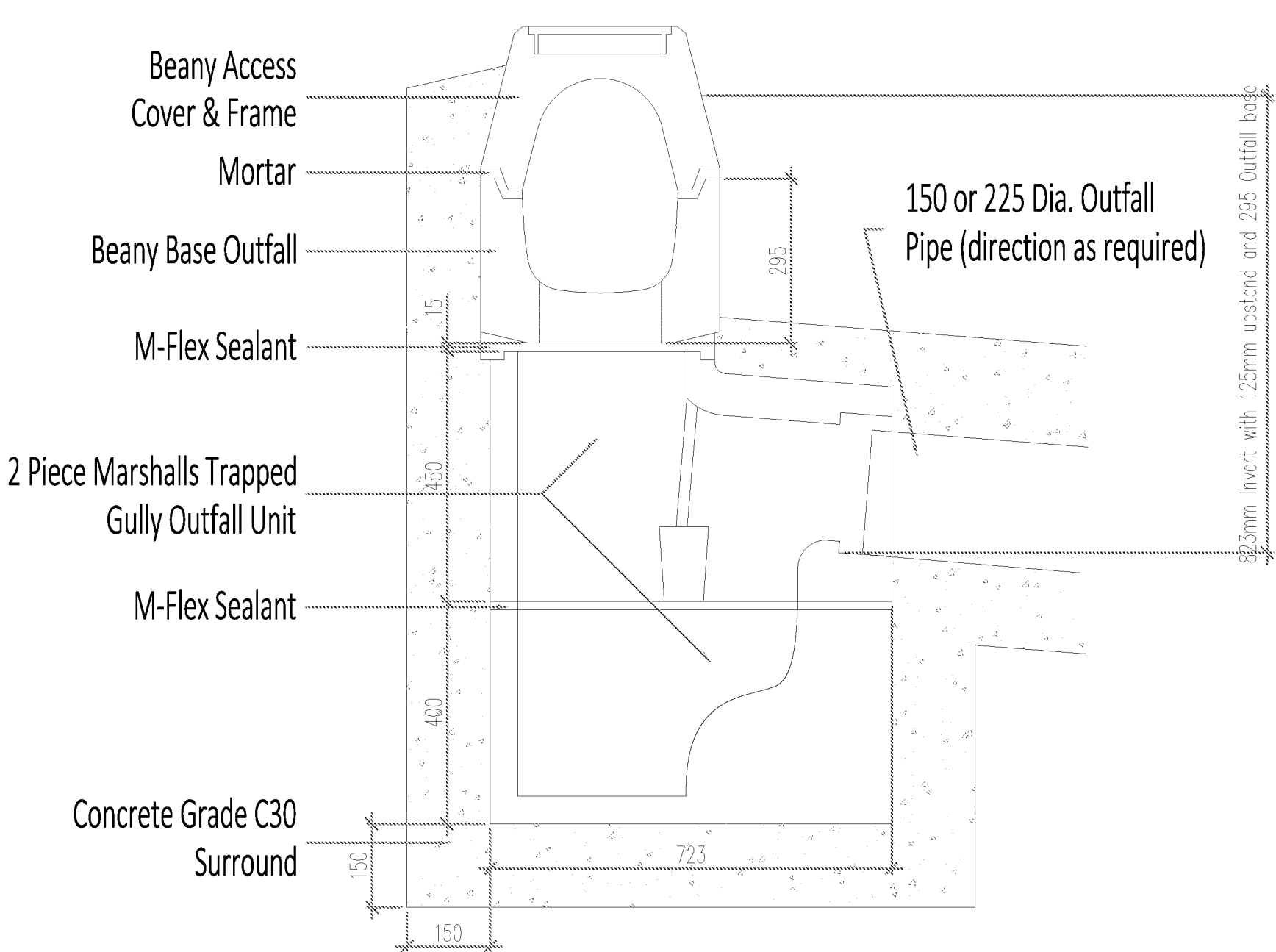
Beany 295 Base Channel
DR7200101



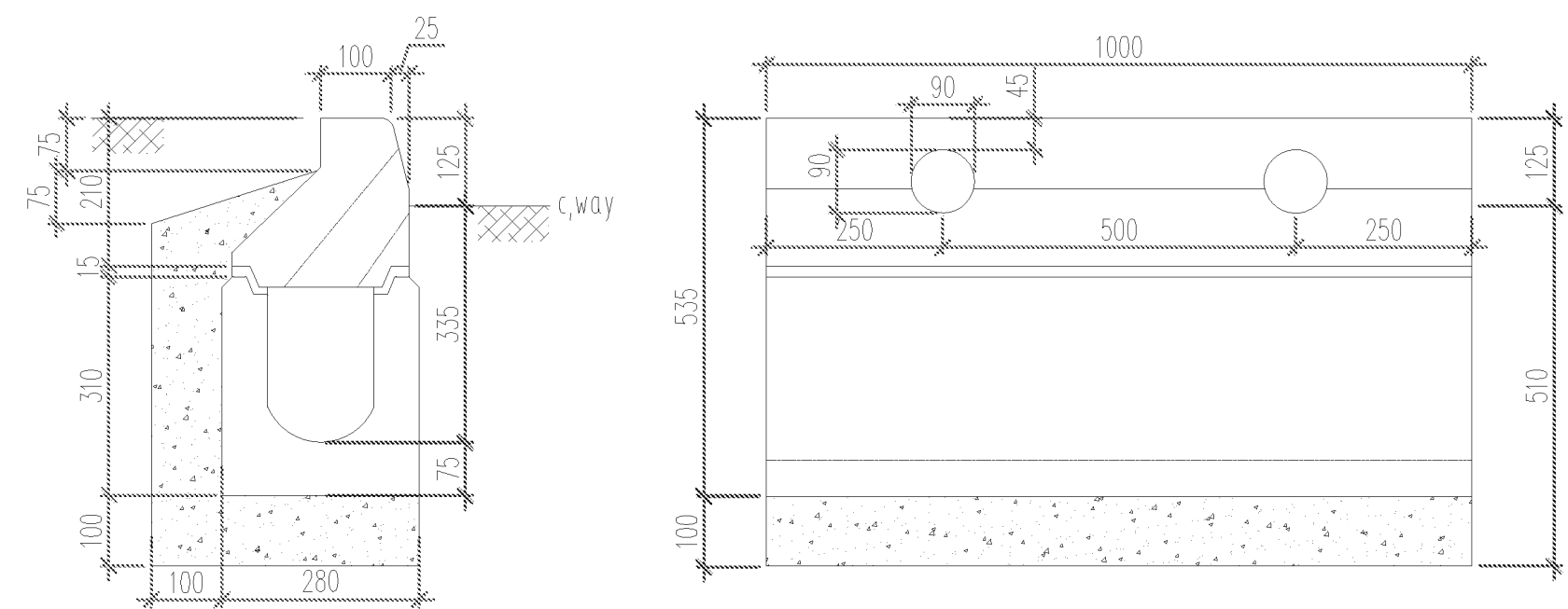
Beany 205 Base Channel
DR7200211

Beany 630 Base Channel

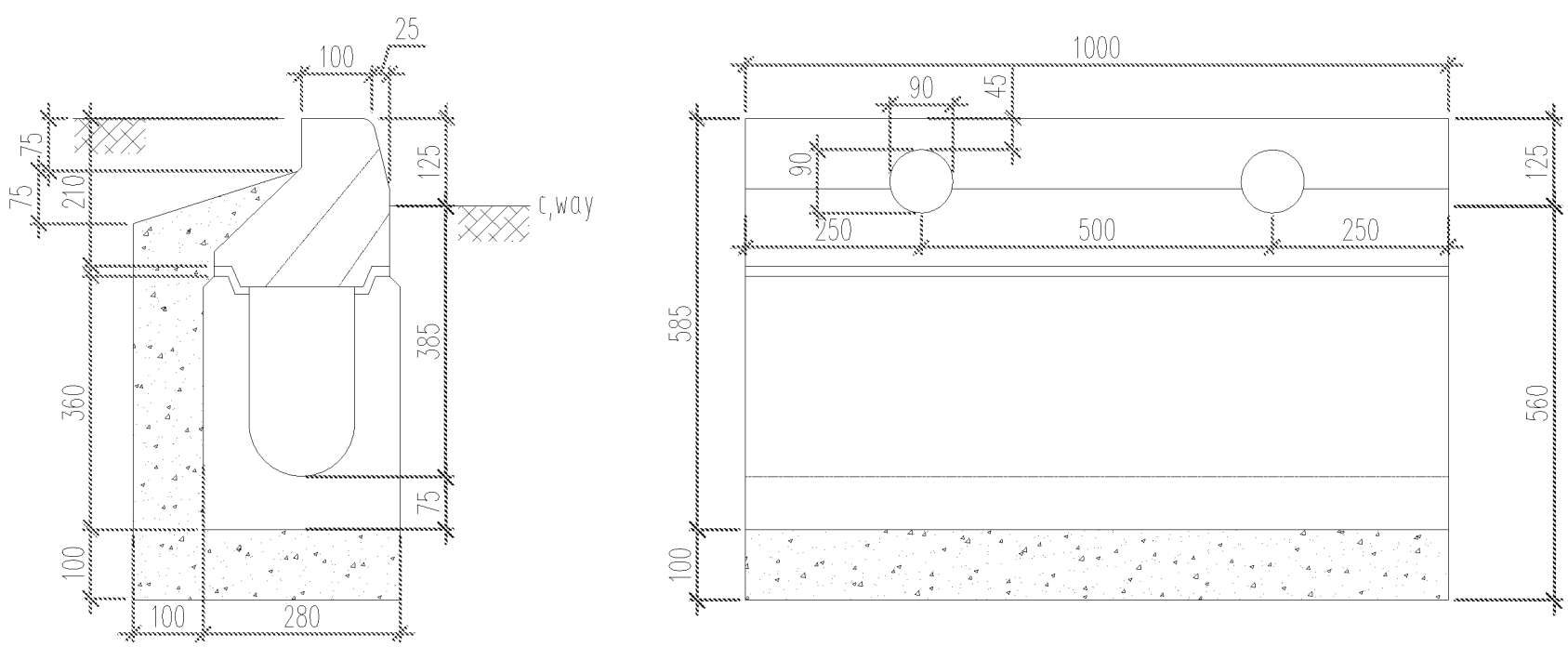
Beany 365 Base Channel
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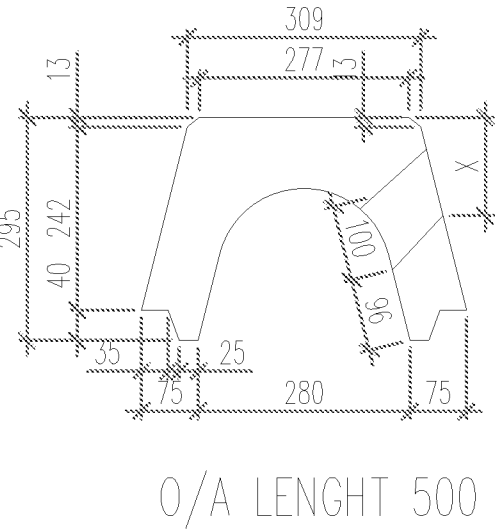
Beany Gully Outfall 150 dia or 225 dia
DR4604010/DR4604060



Mini Beany 310 Base Unit with HB Top Unit 1000mm



Mini Beany 360 Base Unit with HB Top Unit 1000mm



STANDARD BEANY TOP

PRELIMINARY
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rev.	amendment	checked	date
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client
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project
NORTH LITTLEHAMPTON PHASE 2
FITZALAN LINK S278 WORKS

scale 1:10 @ A1 drawn by PB checked by AB

date MARCH 2016 cad file F03.DWG

title
STANDARD DETAILS DRAWING
(DRAWING 3 OF 5)

drawing number
PHF-MB-S278-GF-DR-D-F/03

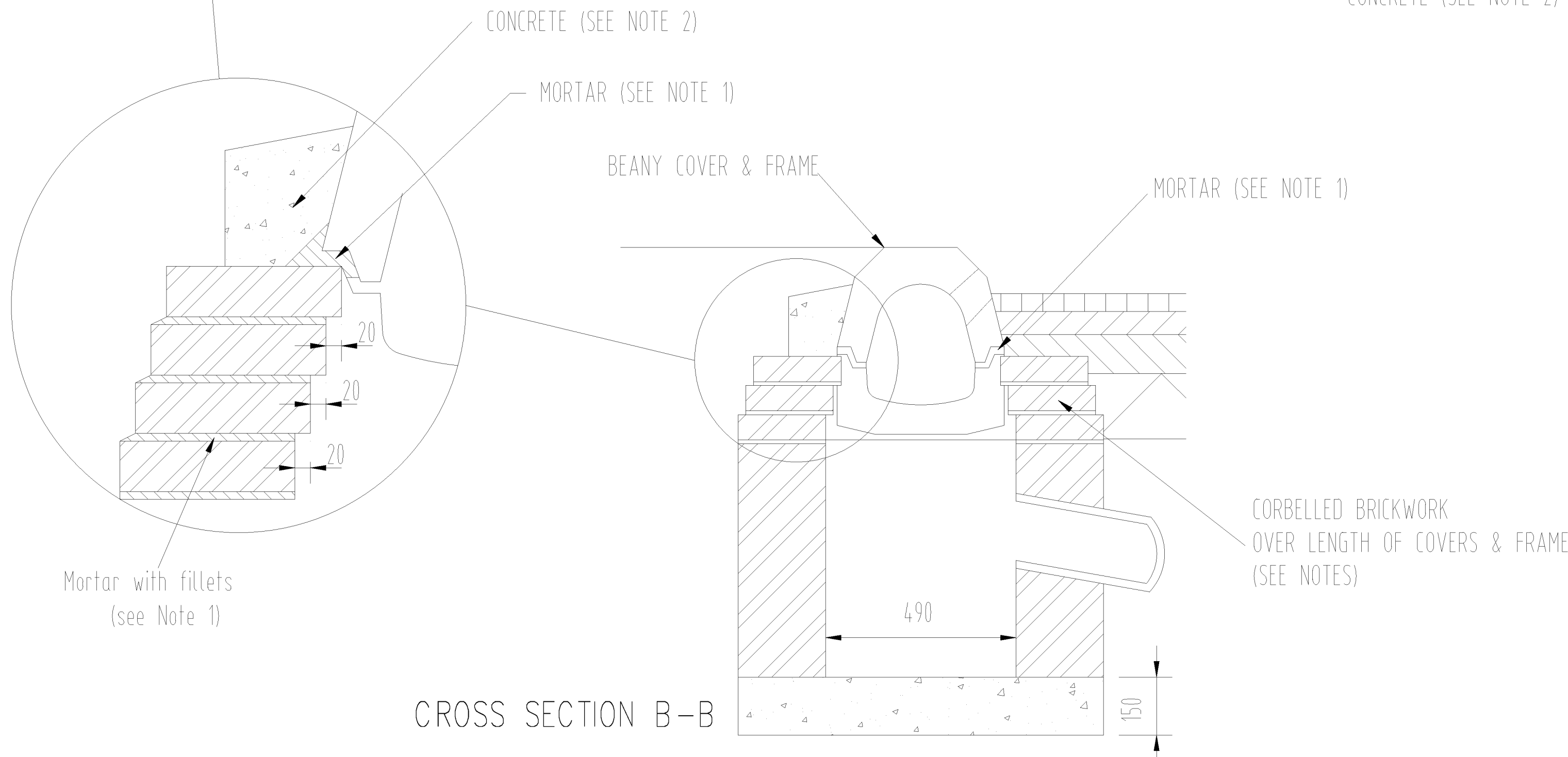
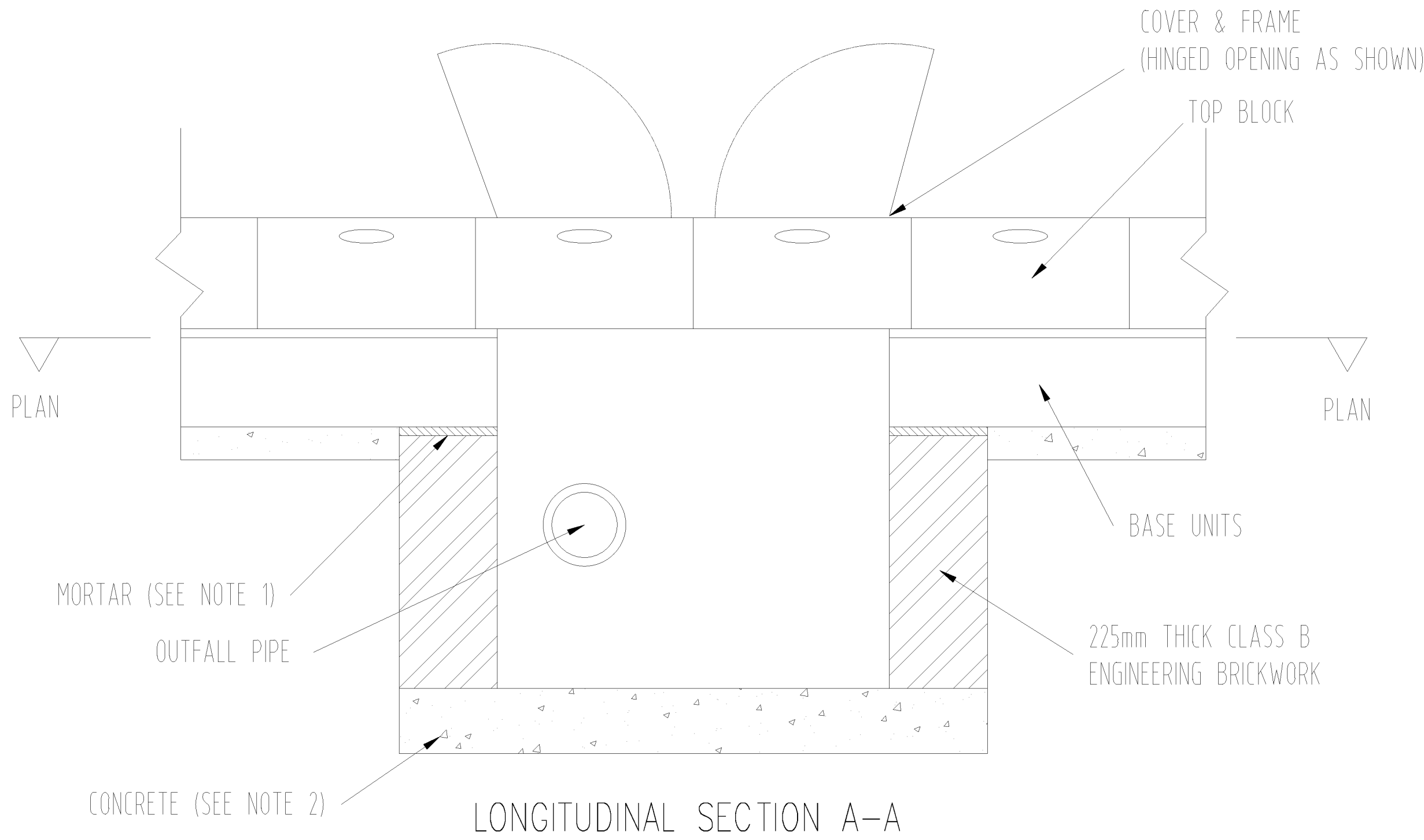
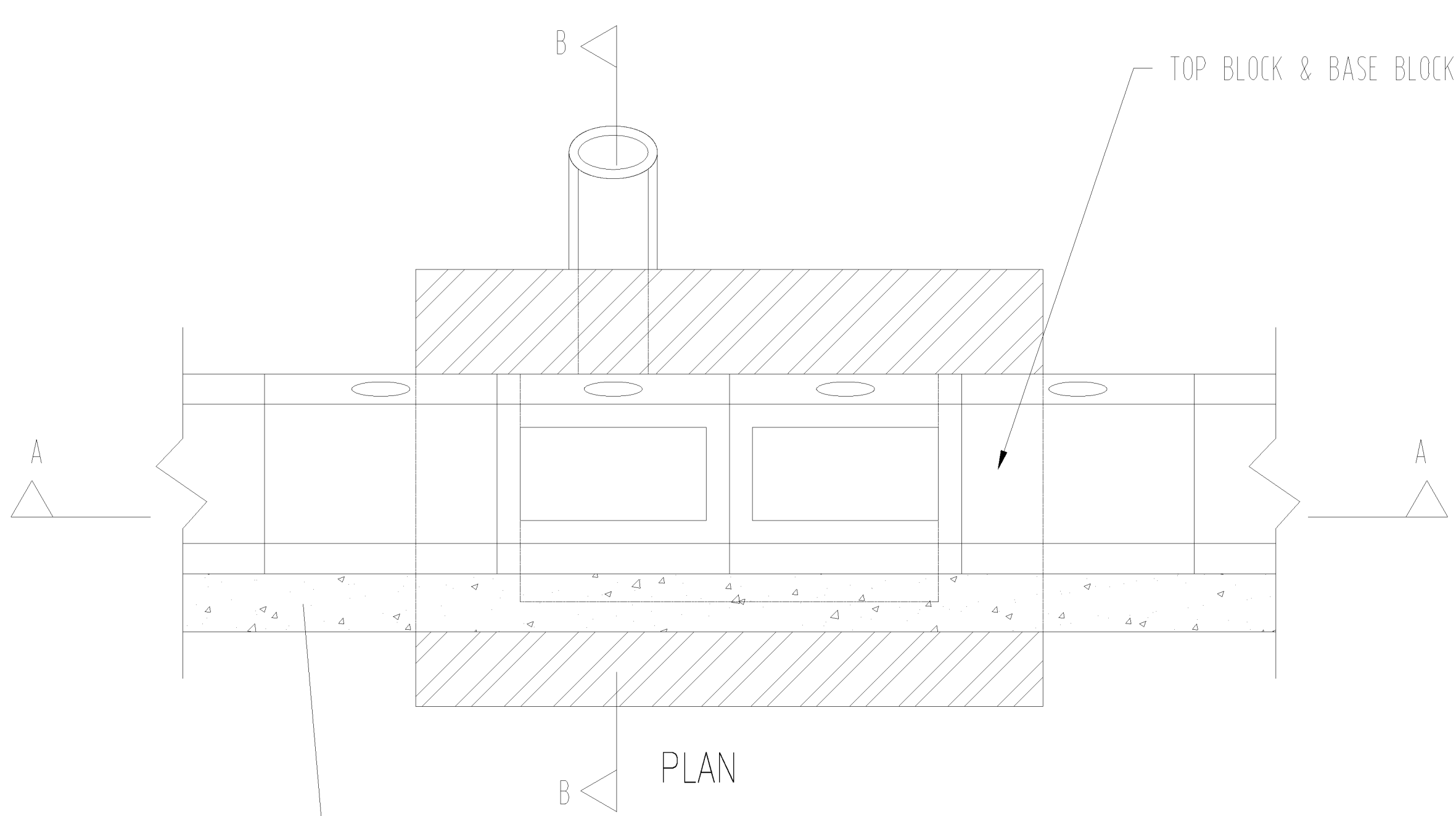
rev.

A1 ORIGINAL

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NOTES

- Details provided by Marshalls.
- Prior to installation Contractor to contact Marshalls (ref: 5437151) to discuss the required components.



BEANY CATCHPIT / OUTFALL

PRELIMINARY
NOT FOR CONSTRUCTION

rev.	amendment	checked	date
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client
PERSIMMON HOMES

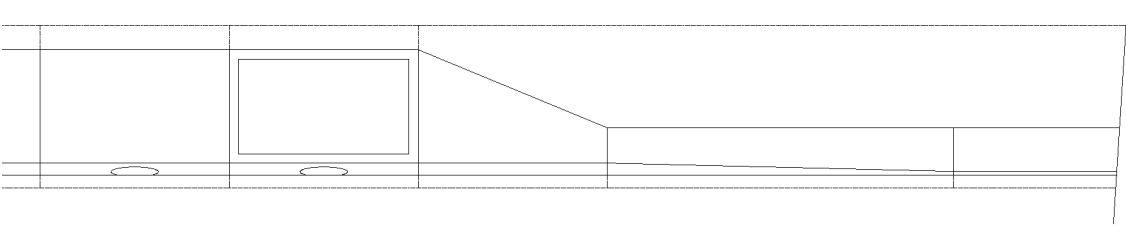
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NORTH LITTLEHAMPTON PHASE 2
FITZALAN LINK S278 WORKS

scale 1:10 @ A1 drawn by PB checked by AB

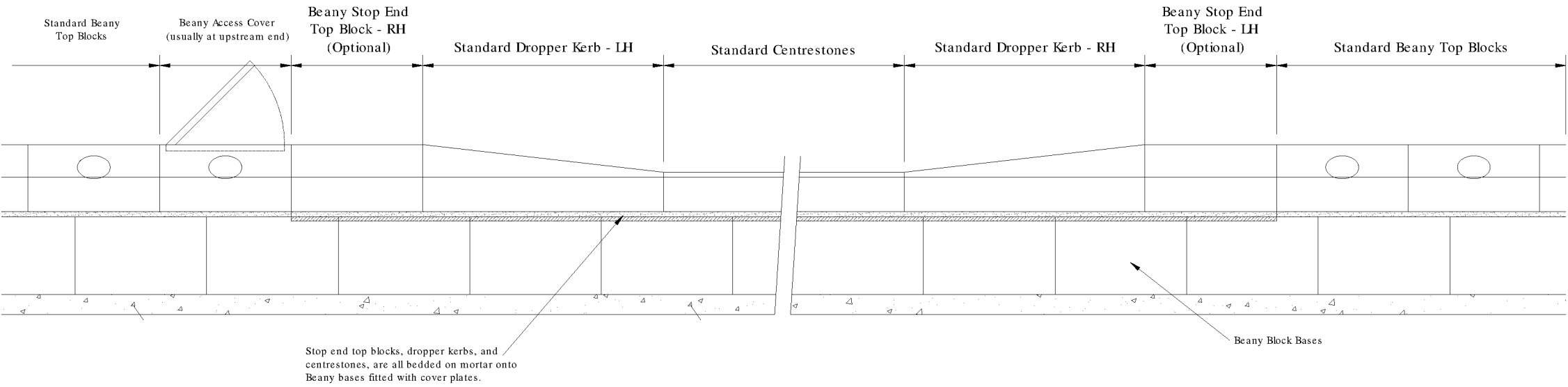
date MARCH 2016 cad file F04.DWG

title
STANDARD DETAILS DRAWING
(DRAWING 4 OF 5)

drawing number PHF-MB-S278-GF-DR-D-F/04 rev.



Beany Block Dropped Crossing Detail - Plan



Beany Block Dropped Crossing Detail
- Elevation



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project
NORTH LITTLEHAMPTON PHASE 2
FITZALAN LINK S278 WORKS

title
STANDARD DETAILS DRAWING (5 OF 5)

scale	1:20@A3	drawn by	PB	checked by	AB
date	MARCH 2016	cad file	F05.DWG		
drawing number	PHF-MB-S278-GF-DR-D-F/05				rev.

APPROVED

USED ON

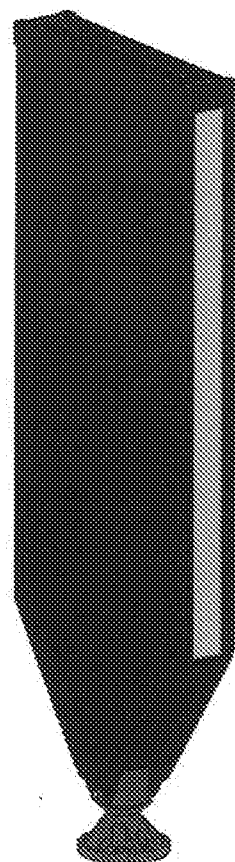
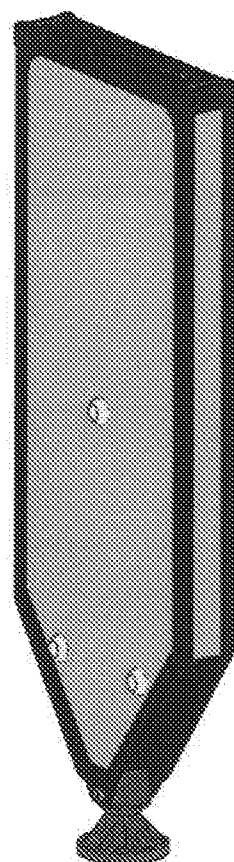
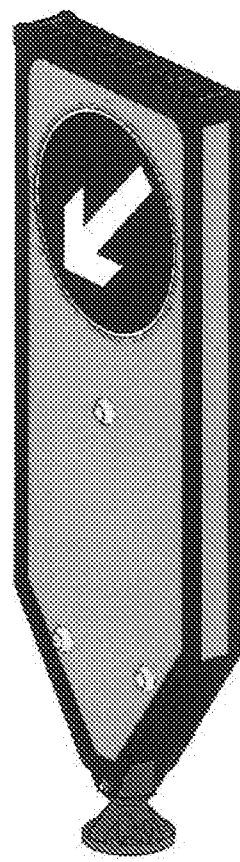
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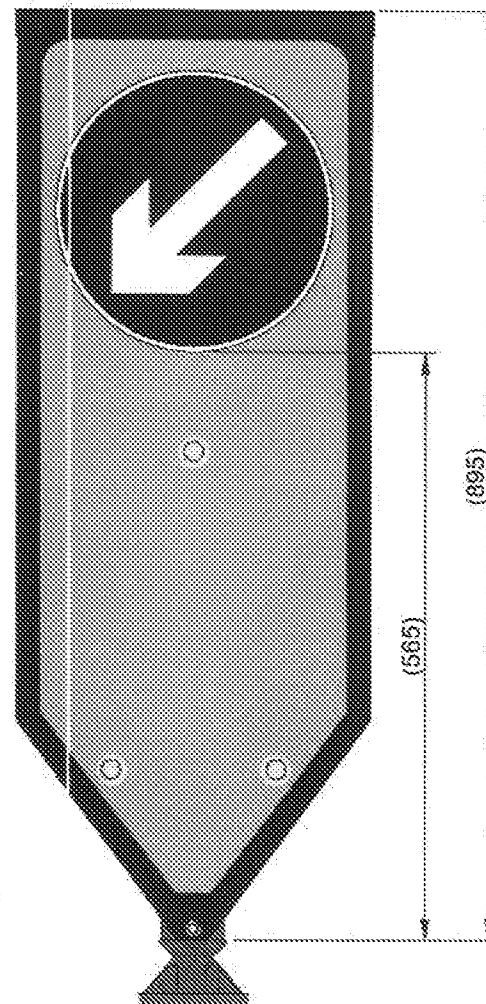
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DIMS IN MILLIMETRES

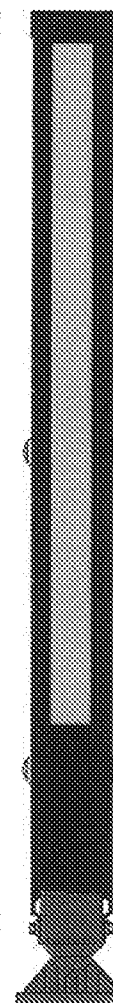
THIRD ANGLE PROJECTION

MODS
ISSUEA
FIRST ISSUEB
REAR VIEW
WITHOUT
REFLECTOR
ADDED.
DM 09/01/07C
REAR ISO
VIEW WITH
REFLECTOR -
DELETED
DM 10/01/07D
REFS TO
ILLUMINATION
AND THE
SOLAR
PANEL
ADDED TO
NOTES.
DM 11/01/07E
PICTORIAL
CHANGES TO
REFLECT
PRODUCTION
DM 18/01/07F
NOTES
REGARDING
PRODUCTION
DELETED.
REAR
FLECTA
OPTION
ADDED.
TABLE
ADDED.
DM 31/01/07G
NOTE
REWORDING.
DM 02/02/07H
TITLE
SHORTENED
COLOURS
ALTERED
BS308 REFS
DELETED.
DM 08/02/07REAR ISOMETRIC VIEW
WITHOUT OPTIONAL
REAR REFLECTORREAR ISOMETRIC VIEW
WITH OPTIONAL
REAR REFLECTOR

FRONT ISOMETRIC VIEW



FRONT ELEVATION



SIDE ELEVATION

SIGN FACE D610 -
INTERNALLY ILLUMINATED
BY SOLAR POWERED LED:
BORDER WHITE 4090
BACKGROUND BLUE 4095
ARROW WHITE 4090
DIAMETER 270mm
TRANSLUCENT DG3
(BS8408:2005)

FACING DIMENSIONS:
WIDTH: 300mm
HEIGHT: 825mm
AREA: 0.22sq.m
DG3 (BS8408:2005)
FLUORESCENT YELLOW
4081

SIDE STRIPS:
WIDTH: 40mm
HEIGHT: 650mm
DG3 (BS8408:2005)
FLUORESCENT YELLOW
4081

BODY
POLYPROPYLENE BODY
VACUUM FORMED IN
BLACK, GREY OR WHITE

ALTERNATIVE SIGNS
TSRGD DIAGRAM 806,
610, 611, 616, 951, 955,
956 AND 957.

TRAFFIC MANAGEMENT PRODUCTS

TMP Limited
(Part of the Dewhurst group)

TELEPHONE
UK +44 (0)1342 844437
Ireland +353 87 24 23 634

TITLE
HERITAGE SOLALITE

MAT'L

FINISH

SCALE

1:5

DRN D.MEEK

CHKD
SEE TOP LEFT OF SHEET 1
FOR APPROVED SIGNATURE

DATE 08/01/07

GENERAL M/C TOLERANCES
ANG DIMS ± 1.2°
1/16" FRACTIONAL DIMS ± 1/64"
1/16" DECIMAL DIMS ± 0.005

METRIC: 5 ± 0.3mm
10 ± 0.3mm
20 ± 0.3mm

DRG SIZE

A3

DRG No

558022-000002001

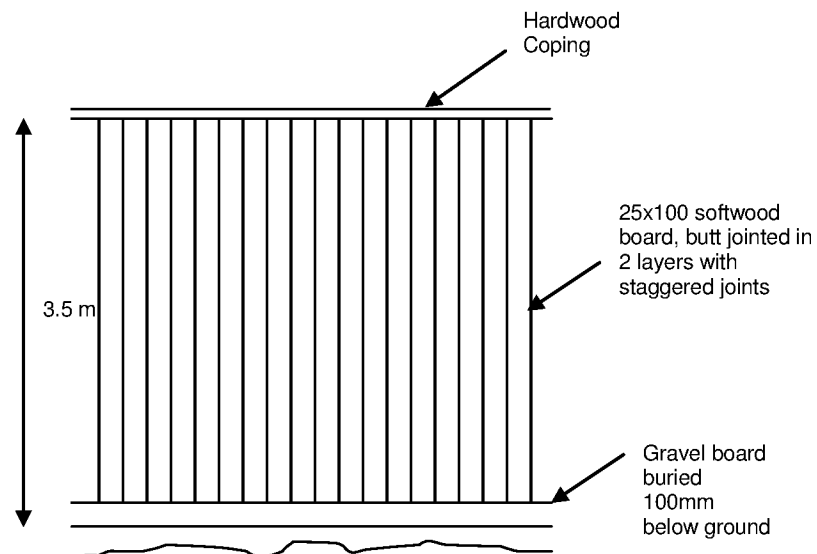
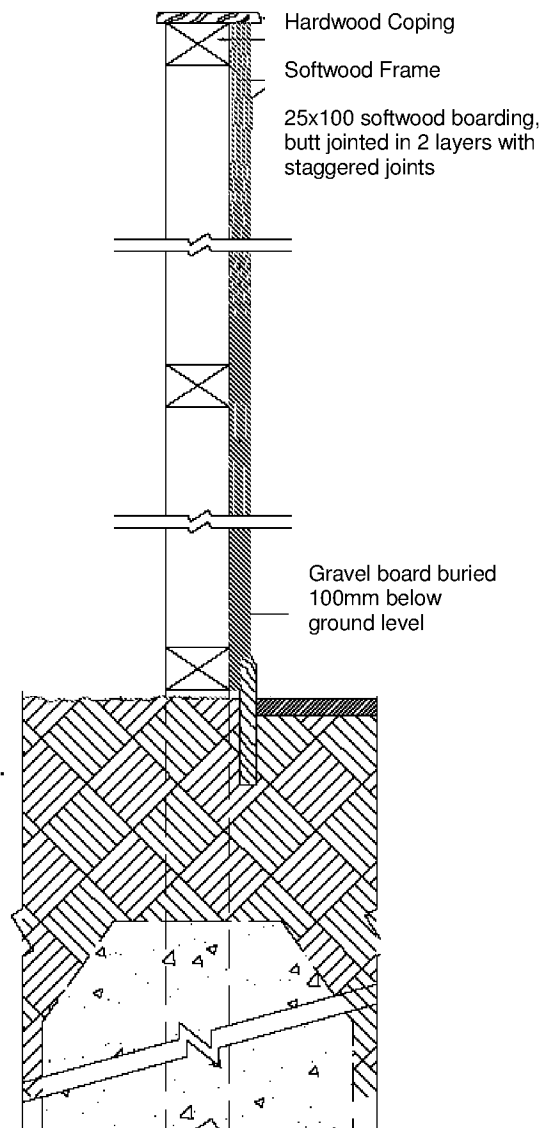
Client: Persimmon Homes

Project: Fitzalan Link Road,
North Littlehampton

Project Number: A095004

Drawing Title / Scenario:
Acoustic Fence Detail

Scale: Not to Scale



WYG Leicester

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