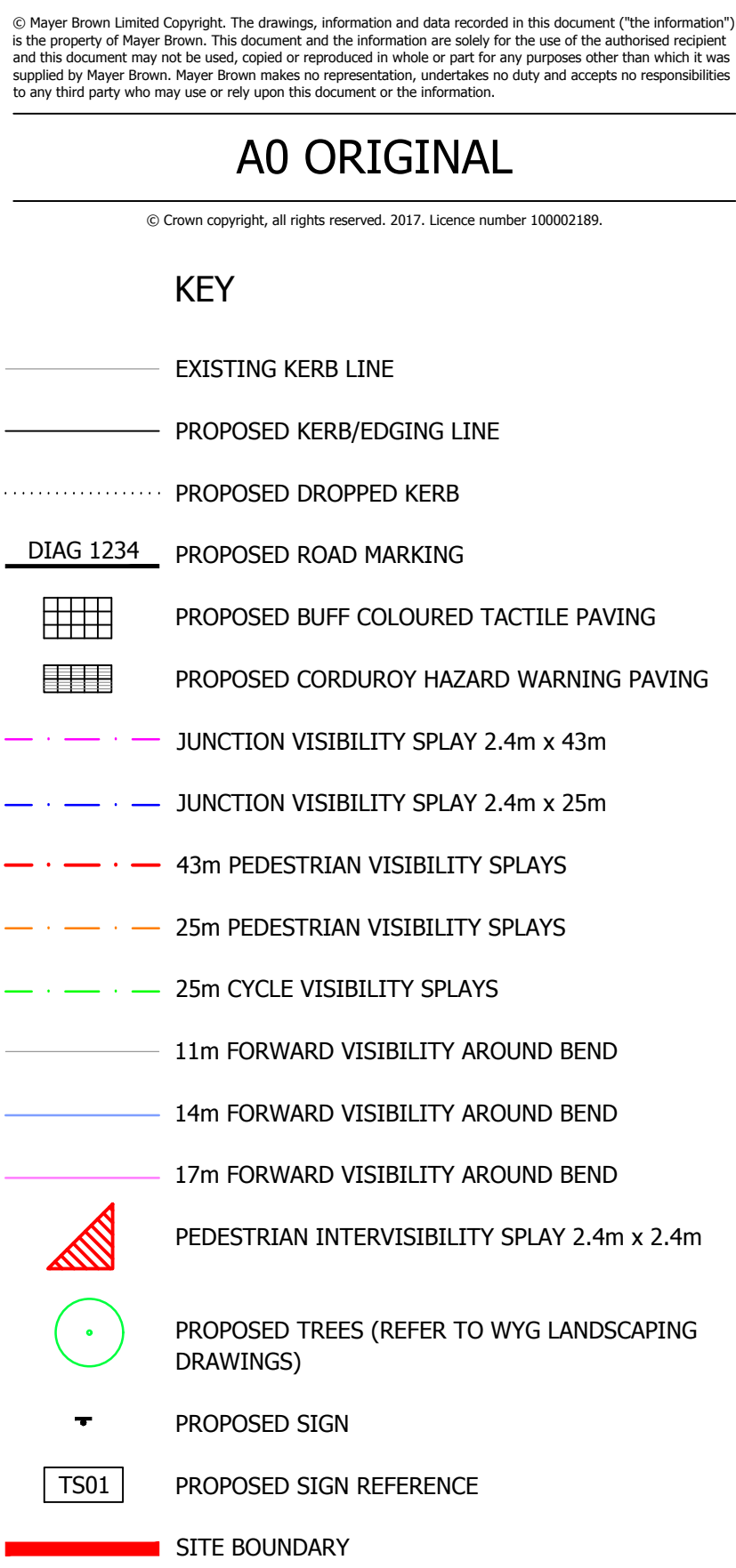




MAIN AVENUE WORKS SUBJECT TO
S38 TECHNICAL REVIEW, APPROVAL
AND AGREEMENT WITH WSCC

NOTES

1. Based on topographic survey by WYG drawing numbered GGL/A044029/LAY/01.
2. Site layout taken from PHTV drawing numbered 543_PL_SITE LAYOUT_REV E.
3. Landscaping layout taken from WYG drawing numbered LA101 Rev G.
4. Any vegetation within the splays should be maintained to ensure that it does not extend beyond a vertical height of 0.6m.
5. All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.

FOR CONSTRUCTION

C2	In abeyance revision cloud removed. (IC)	SF	20/02/2018
C1	Signs added. (ON)	SF	12/01/2018
T2	Site layout updated and abeyance area removed. (ON)	SF	16/01/2018
T1	Initial tender issue. (ON)	SF	01/12/2017

rev.	amendment	checked	date
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PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2

scale	1:250	drawn by	OJN	checked by	AB
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date	NOVEMBER 2017	cad file	MASTER.DWG
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title

GENERAL ARRANGEMENT DRAWING (1 OF 2)

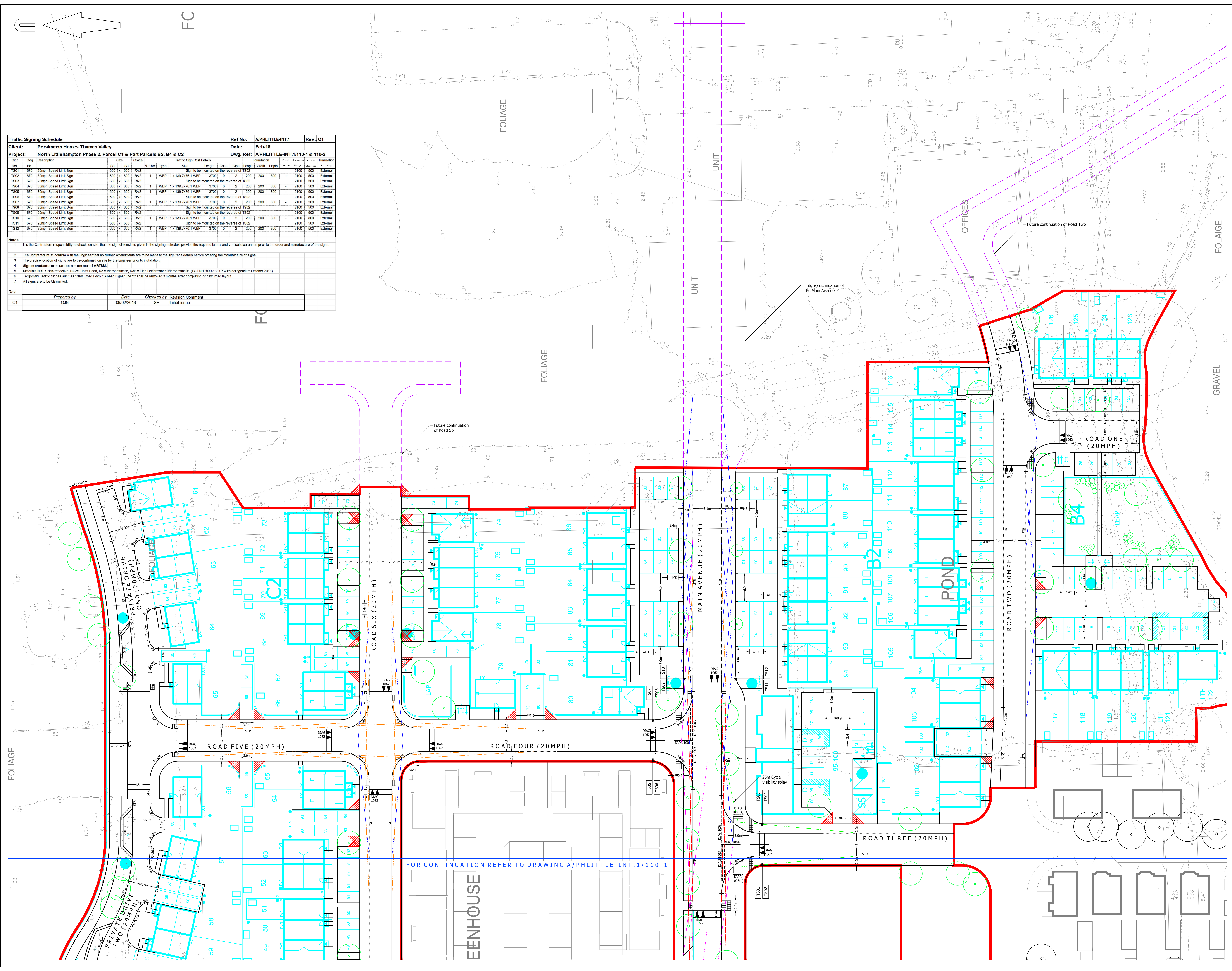
drawing number	rev.
A/PHLITTLE-INT.1/110-1	C2

Traffic Signaling Schedule										Ref No:		A/PHUTTE/INT.1		Rev. C1	
Client: Persimmon Homes Thames Valley										Date:		Feb-18			
Client: North Littlehampton Phase 2, Parcel C1 & Part Parcels B2, B4 & C2										Dwg. Ref:		A/PHUTTE/INT.1/10-1 & 110-2			
Sign	Day	Description	C1	Grade	Number	Type	Size	Length	Clips	Length	Width	Depth	Paint	Exposure	Burialment
TS01	6/10	20mph Speed Limit Sign	000	X	600									2100	500 External
TS01	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
										Sign to be mounted on the reverse of T502					
T503	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
T504	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
										Sign to be mounted on the reverse of T502					
T506	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
										Sign to be mounted on the reverse of T502					
T507	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
T508	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
										Sign to be mounted on the reverse of T502					
T510	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
										Sign to be mounted on the reverse of T502					
TS11	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External
TS12	6/10	20mph Speed Limit Sign	000	X	600	RA2	1	WEP	1 x 138.716 x 176.76	3700	0	2	200	800	- 2100 500 External

Notes

- | | |
|-------|---|
| Notes | <p>1 It is the Contractor's responsibility to check, on site, that the sign dimensions given in the signing schedule provide the required lateral and vertical clearances prior to the order and manufacture of the signs.</p> <p>2 The Contractor must confirm to the Engineer that no further amendments are to be made to the sign face details before ordering the manufacture of signs.</p> <p>3 The precise location of signs are to be confirmed on site by the Engineer prior to installation.</p> <p>4 Sign manufacturer must be a member of ARTSM.</p> <p>5 Materials RHT + Non-reflective, PA2+ Glass Bead, R2 + Microcrispant, R03 + High Performance Microcrispant (BS EN 12899-1:2007 in use commencing October 2011)</p> <p>6 Temporary Traffic Signs such as the New Road Layout Ahead Signs (TM77) shall be removed 3 months after completion of new road layout.</p> <p>7 All signs are to be CE marked.</p> |
|-------|---|

[illegible]



Traffic Signing Schedule										Ref No:	A/PHLITTLE-INT.1		Rev:	C1				
Client: Persimmon Homes Thames Valley										Date:	Feb-18							
Project: North Littlehampton Phase 2, Parcel C1 & Part Parcels B2, B4 & C2										Dwg. Ref:	APHLITTLE-INT.1/110-1 & 110-2							
Sign Ref	No	Desc	Description	Size (x)	Grade (y)	Number	Type	Traffic Sign Post Details				Foundation		Paint	Material	Location	Elevation	
								Length	Caps	Length	Clips	Length	Width					Depth
TS01	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS03	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS05	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS06	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS07	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS08	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS09	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS10	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS11	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								
TS12	670	20mph Speed Limit Sign	600 x 600	RA2	1	WBP	1 x 130	7x76	1 WBP	3700	0	2	200	200	500	2100	500	External
										Sign to be mounted on the reverse of TS02								

Notes

1 It is the Contractors responsibility to check, on site, that the sign dimensions given in the signing schedule provide the required lateral and vertical clearances prior to the order and manufacture of the signs.

2 The Contractor must confirm with the Engineer that no further amendments are to be made to the sign face details before ordering the manufacture of signs.

3 The precise location of signs are to be confirmed on site by the Engineer prior to installation.

4 Sign manufacturer must be a member of ARTSM.

5 Materials NR1 = Non-reflective, RA2= Glass Bead, R2= Microprismatic, R3B= High Performance Microprismatic. (BS EN 12899-1:2007 with corrigendum October 2011)

6 Temporary Traffic Signs such as 'New Road Lay out Ahead Signs' TNP77 shall be removed 3 months after completion of new road layout.

7 All signs are to be CE Marked.

Rev	Prepared by	Date	Checked by	Revision Comment
C1	CUN	09/02/2018	SF	Initial Issue

A0 ORIGINAL

KEY

- EXISTING KERB LINE
- PROPOSED KERB/EDGING LINE
- PROPOSED DROPPED KERB
- PROPOSED ROAD MARKING
- PROPOSED BUFF COLOURED TACTILE PAVING
- PROPOSED CORDOUBY HAZARD WARNING PAVING
- JUNCTION VISIBILITY SPLAY 2.4m x 43m
- JUNCTION VISIBILITY SPLAY 2.4m x 25m
- 43m PEDESTRIAN VISIBILITY SPLAYS
- 25m PEDESTRIAN VISIBILITY SPLAYS
- 25m CYCLE VISIBILITY SPLAYS
- 11m FORWARD VISIBILITY AROUND BEND
- 14m FORWARD VISIBILITY AROUND BEND
- 17m FORWARD VISIBILITY AROUND BEND
- PEDESTRIAN INTERVISIBILITY SPLAY 2.4m x 2.4m
- PROPOSED TREES (REFER TO WYG LANDSCAPING DRAWINGS)
- PROPOSED SIGN
- PROPOSED SIGN REFERENCE
- SITE BOUNDARY

MAIN AVENUE WORKS SUBJECT TO S38 TECHNICAL REVIEW, APPROVAL AND AGREEMENT WITH WSCC

NOTES:

- Based on topographic survey by WYG drawing numbered GL/AD40429/LAY/01.
- Site layout taken from PHTV drawing numbered 543_PL_SITE LAYOUT_REV E.
- Landscaping layout taken from WYG drawing numbered LA101 Rev G.
- Any vegetation within the splays should be maintained to ensure that it does not extend beyond a vertical height of 0.6m.
- All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.

FOR CONSTRUCTION

C2	In absence revision cloud removed. (IC)	SF	20/02/2018
C1	Signs added. (C30)	SF	12/02/2018
T3	Site layout updated and abeyance area removed. (C30)	SF	16/01/2018
T2	General update. (IC)	SF	01/12/2017
T1	Initial tender issue. (C30)	SF	10/11/2017

rev.	amendment	checked	date

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client
PERSIMMON HOMES THAMES VALLEY

project
**NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2**

scale
1:250

drawn by
CUN

checked by
SF

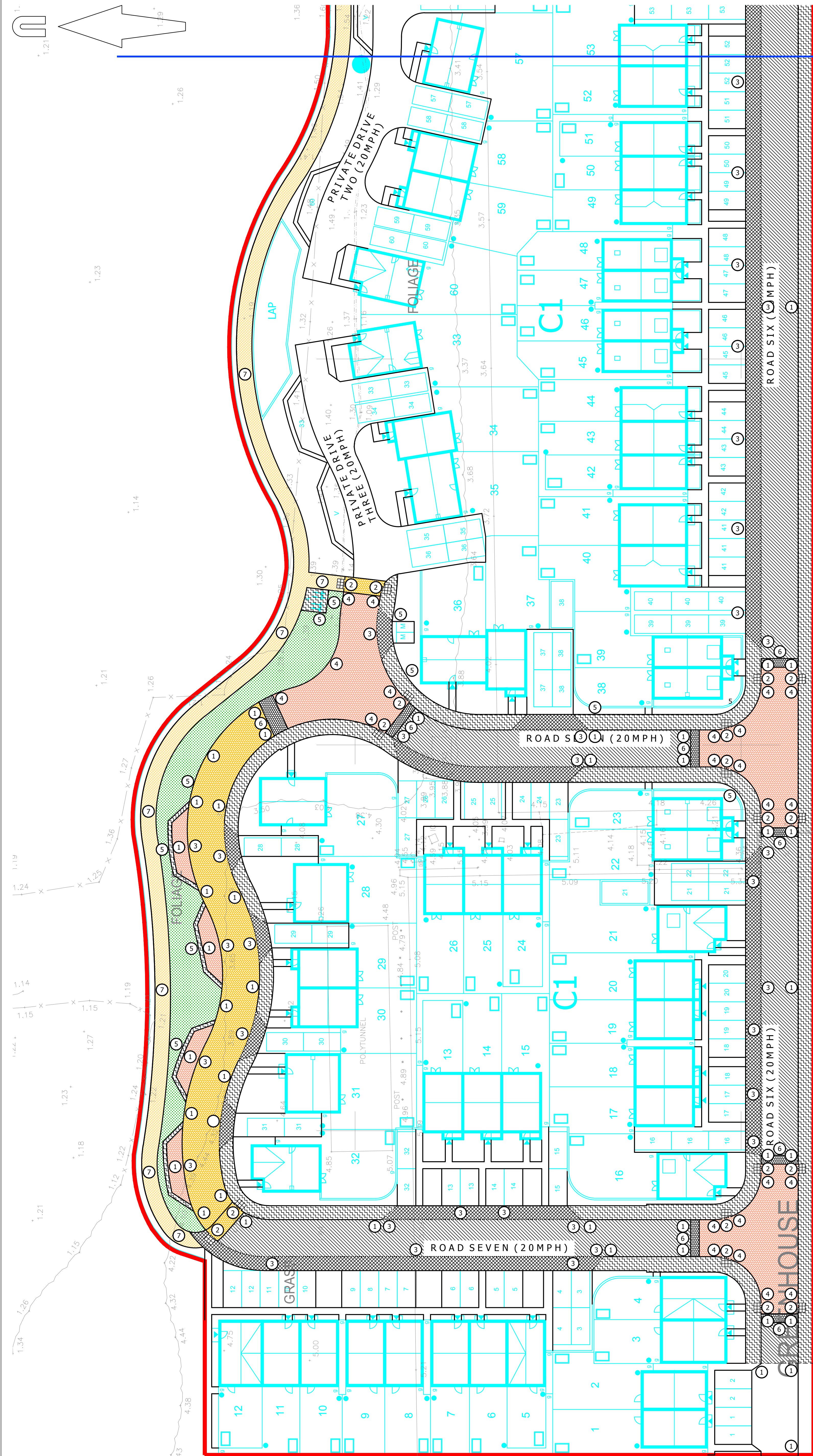
date
NOVEMBER 2017

cad file
MASTER.DWG

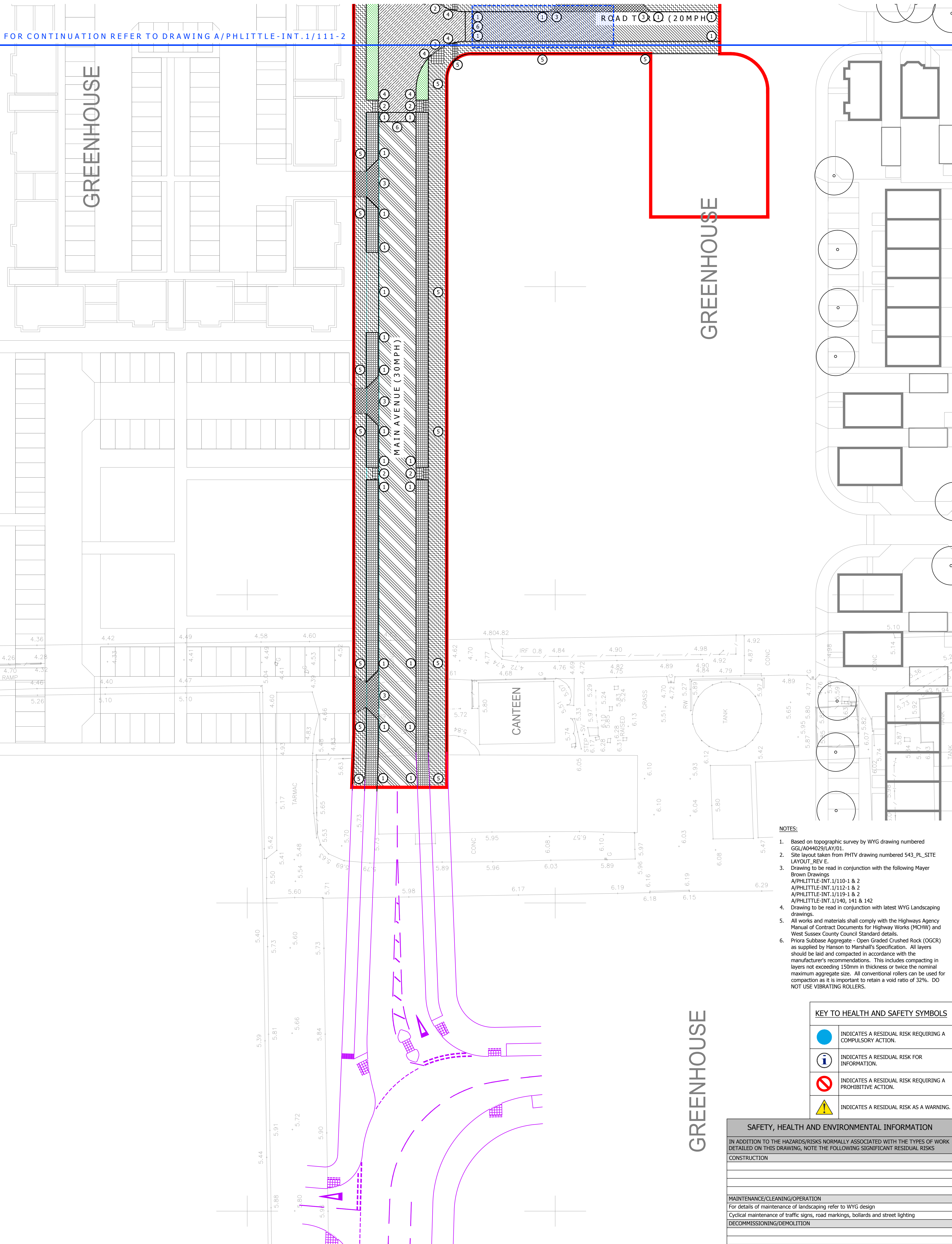
title
GENERAL ARRANGMENT DRAWING (2 OF 2)

drawing number
A/PHLITTLE-INT.1/110-2

rev.
C2



FOR CONTINUATION REFER TO DRAWING A/PHLITTLE-INT.1/111-2



- NOTES:
- Based on topographic survey by WYG drawing numbered GCU/04/04/02/LAY/01.
 - Site layout taken from PHIV drawing numbered 543_RL SITE LAYOUT REV 1.
 - Drawing to be read in conjunction with the following Mayer Brown Drawings:
A/PHLITTLE-INT.1/110-1 & 2
A/PHLITTLE-INT.1/112-1 & 2
A/PHLITTLE-INT.1/119-1 & 2
A/PHLITTLE-INT.1/140, 141 & 142
 - Drawing to be read in conjunction with latest WYG Landscaping drawings.
 - All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.
 - Priora Subbase Aggregate - Open Graded Crushed Rock (OGCR) as supplied by Hanson to Marshall's Specification. All layers should be laid and compacted in accordance with the manufacturer's recommendations. This includes compacting in layers not exceeding 150mm in thickness or twice the nominal maximum aggregate size. All conventional rollers can be used for compaction as it is important to retain a void ratio of 32%. DO NOT USE VIBRATING ROLLERS.

KEY TO HEALTH AND SAFETY SYMBOLS	
	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
	INDICATES A RESIDUAL RISK FOR INFORMATION.
	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
	INDICATES A RESIDUAL RISK AS A WARNING.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS	
CONSTRUCTION	
MAINTENANCE/CLEANING/OPERATION	
For details of maintenance of landscaping refer to WYG design	
Cyclical maintenance of traffic signs, road markings, bollards and street lighting	
DECOMMISSIONING/DEMOLITION	

A0 ORIGINAL	
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KEY	
	EXISTING KERB LINE
	PROPOSED KERB/EDGING LINE
	PROPOSED DROPPED KERB
	ADOPTED CARRIAGEWAY - LOCAL DISTRIBUTOR ROAD
	PROPOSED FULL DEPTH LOCAL DISTRIBUTOR ROAD CARRIAGEWAY CONSTRUCTION ADOPTED MAIN AVENUE (WSCC DETAIL S278/38/21 & MB/C/01)
	PROPOSED FULL DEPTH LOCAL DISTRIBUTOR RAISED TABLE CONSTRUCTION ADOPTED MAIN AVENUE (WSCC DETAIL S278/38/16 & MB/C/01)
	NON ADOPTED CARRIAGEWAY
	PROPOSED FULL DEPTH LOCAL DISTRIBUTOR ROAD CARRIAGEWAY CONSTRUCTION MAIN AVENUE (WSCC DETAIL S278/38/21 & MB/C/01)
	PROPOSED BITUMEN MACADAM ACCESS ROAD CONSTRUCTION (WSCC DETAIL S278/38/21 & MB/C/01)
	PROPOSED MARSHALLS BLOCK PAVED CARRIAGEWAY COLLECTOR ROAD CONSTRUCTION (BRINDLE) LAID IN HERRINGBONE PATTERN (WSCC DETAIL S278/38/21 & MB/C/01)
	PROPOSED MARSHALLS BLOCK PAVED COLLECTOR ROAD RAMP (BRINDLE) CONSTRUCTION TYPE 5 (WSCC DETAIL S278/38/16 & MB/C/01)
	PROPOSED MARSHALLS BLOCK PAVED SHARED / PRIVATE DRIVE COLLECTOR ROAD CONSTRUCTION (BRINDLE) LAID IN HERRINGBONE PATTERN (WSCC DETAIL S278/38/21 & MB/C/01)
	PROPOSED PERMEABLE SUB BASE CONSTRUCTION REFER TO DRAWING A/PHLITTLE-INT.1/112-1 & 2
FOOTWAY CONSTRUCTION	
	PROPOSED BITUMEN MACADAM FOOTWAY CONSTRUCTION (WSCC DETAIL S278/38/04 & MB/C/01)
	PROPOSED BITUMEN MACADAM FOOTWAY CROSSOVER TYPE 1 (WSCC DETAIL S278/38/07)
	PROPOSED SELF BINDING COMPACTED GRAVEL (BUFF COLOURED) WITH TIMBER EDGING
	PROPOSED V-GROOVE KEYBLOK PAVING LAID IN HERRINGBONE PATTERN WITH TREE PITTS (REFER TO LANDSCAPE ARCHITECT DRAWINGS)
	PROPOSED SOFT LANDSCAPING (REFER TO LANDSCAPE ARCHITECT DRAWINGS)
	PROPOSED BUFF COLOURED TACTILE PAVING
	PROPOSED CORDUROY HAZARD WARNING PAVING
	SITE BOUNDARY

- KERB TYPES
- TYPE 1 - 125x250mm type H2 precast concrete kerb to BS EN 1340:2003 Figure NA.1(d) laid with 125mm upstand with ST1 concrete bed and backing.
 - TYPE 2 - 125x150mm type BN precast concrete kerb laid flush (0 to 6mm) to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
 - TYPE 3 - 125x150mm type BN precast concrete kerb laid 25mm for vehicular access to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
 - TYPE 4 - 125x150mm type BN precast concrete kerb laid 50mm at top of tables to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
 - TYPE 5 - 50x150mm type EF precast concrete flat top edging to Figure NA.3(b) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
 - TYPE 6 - Marshalls 'Speedcheck' kerb (or similar approved) laid at bottom of ramp only
 - TYPE 7 - 40mm x 150mm TIMBER EDGING (WSCC DETAIL S278/38/06)

MAIN AVENUE WORKS SUBJECT TO S38 TECHNICAL REVIEW, APPROVAL AND AGREEMENT WITH WSCC

FOR CONSTRUCTION

C2	In abeyance revision cloud removed. (IC)	SF	20/02/2018
C1	Drainage strategy updated. (CON)	SF	09/02/2018
T2	Site layout updated and abeyance area removed. (CON)	SF	16/01/2018
T1	Initial tender issue. (IC)	SF	01/12/2017

rev.	amendment	checked	date
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client
PERSIMMON HOMES THAMES VALLEY

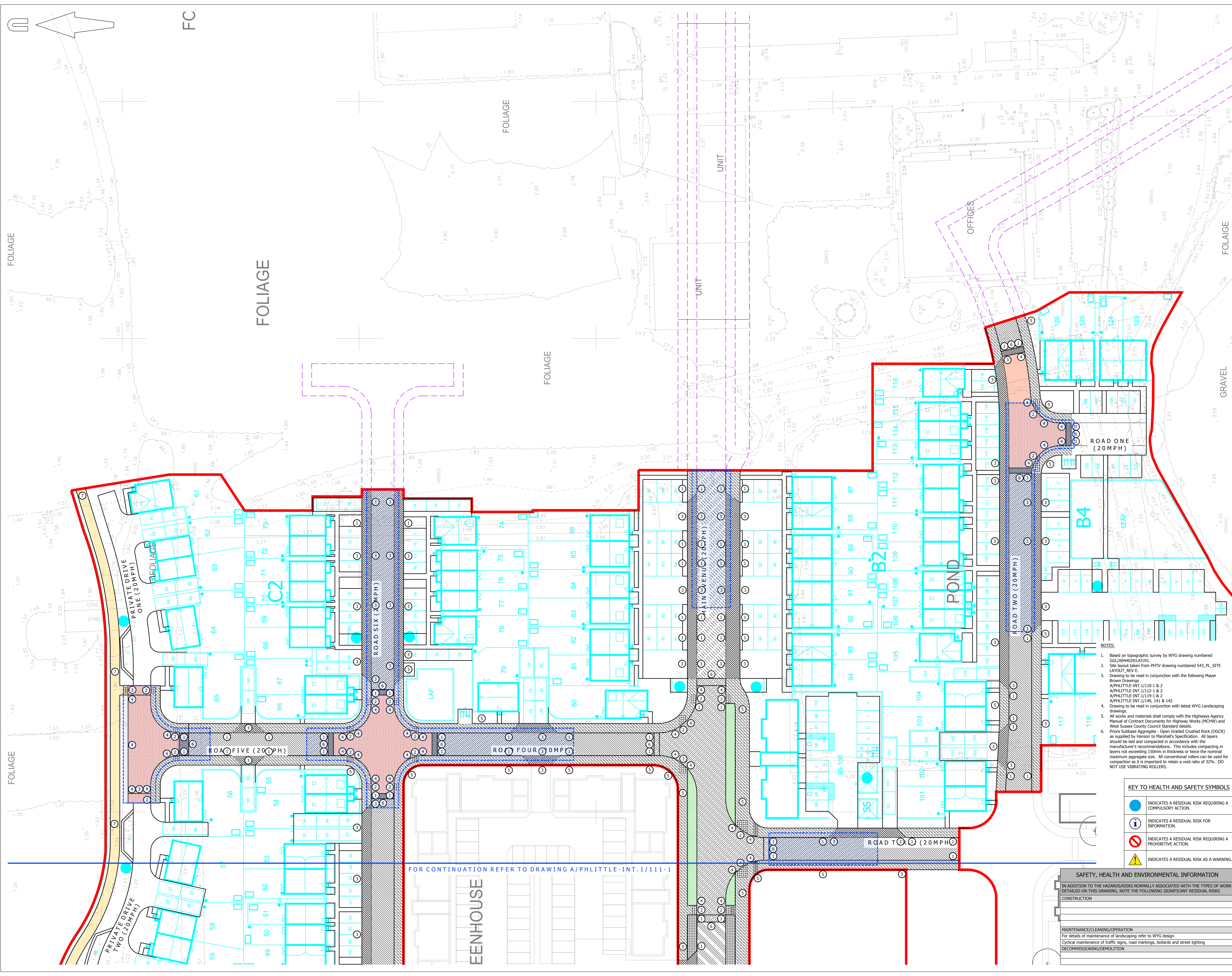
project
NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2

scale
1:250 drawn by IC checked by SF

date
DECEMBER 2017 cad file MASTER.DWG

title
CONSTRUCTION TREATMENTS DRAWING (1 OF 2)

drawing number	rev.
A/PHLITTLE-INT.1/111-1	C2



A0 ORIGINAL

KEY

EXISTING KERB LINE

PROPOSED KERB/EDGING LINE

PROPOSED DROPPED KERB

ADOPTED CARRIAGEWAY - LOCAL DISTRIBUTOR ROAD

PROPOSED FULL DEPTH LOCAL DISTRIBUTOR ROAD CARRIAGEWAY CONSTRUCTION ADOPTED MAIN AVENUE (WSCC DETAIL S278/38/21 & MB/C/01)

PROPOSED FULL DEPTH LOCAL DISTRIBUTOR RAISED TABLE CONSTRUCTION ADOPTED MAIN AVENUE (WSCC DETAIL S278/38/16 & MB/C/01)

NON ADOPTED CARRIAGEWAY

PROPOSED FULL DEPTH LOCAL DISTRIBUTOR ROAD CARRIAGEWAY CONSTRUCTION MAIN AVENUE (WSCC DETAIL S278/38/21 & MB/C/01)

PROPOSED BITUMEN MACADAM ACCESS ROAD CONSTRUCTION (WSCC DETAIL S278/38/21 & MB/C/01)

PROPOSED MARSHALLS BLOCK PAVED CARRIAGEWAY COLLECTOR ROAD CONSTRUCTION (BRINDLE) LAID IN HERRINGBONE PATTERN (WSCC DETAIL S278/38/21 & MB/C/01)

PROPOSED MARSHALLS BLOCK PAVED COLLECTOR ROAD RAMP (BRINDLE) CONSTRUCTION TYPE 5 (WSCC DETAIL S278/38/16 & MB/C/01)

PROPOSED MARSHALLS BLOCK PAVED SHARED / PRIVATE DRIVE COLLECTOR ROAD CONSTRUCTION (BRACKEN) LAID IN HERRINGBONE PATTERN (WSCC DETAIL S278/38/21 & MB/C/01)

PROPOSED PERMEABLE SUB BASE CONSTRUCTION REFER TO DRAWING A/PHLITTLE-INT.1/112-1 & 2

FOOTWAY CONSTRUCTION

PROPOSED BITUMEN MACADAM FOOTWAY CONSTRUCTION (WSCC DETAIL S278/38/04 & MB/C/01)

PROPOSED BITUMEN MACADAM FOOTWAY CROSSOVER TYPE 1 (WSCC DETAIL S278/38/07)

PROPOSED SELF BINDING COMPACTED GRAVEL (BUFF COLOURED) WITH TIMBER EDGING

PROPOSED V-GROOVE KEYBOLK PAVING LAID IN HERRINGBONE PATTERN WITH TREE PITS (REFER TO LANDSCAPE ARCHITECT DRAWINGS)

PROPOSED SOFT LANDSCAPING (REFER TO LANDSCAPE ARCHITECT DRAWINGS)

PROPOSED BUFF COLOURED TACTILE PAVING

PROPOSED CORDUROY HAZARD WARNING PAVING

SITE BOUNDARY

KERB TYPES

1

TYPE 1 - 125x150mm type H2 precast concrete kerb to BS EN 1340:2003 Figure NA.1(d) laid with 125mm upstand with ST1 concrete bed and backing

2

TYPE 2 - 125x150mm type BN precast concrete kerb laid flush (0 to 5mm) to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing

3

TYPE 3 - 125x150mm type BN precast concrete kerb laid 25mm for vehicular access to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing

4

TYPE 4 - 125x150mm type BN precast concrete kerb laid 50mm at top of tables to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing

5

TYPE 5 - 50x150mm type EF precast concrete flat top edging to Figure NA.3(b) of BS EN 1340:2003 with mix ST1 concrete bed and backing

6

TYPE 6 - Marshalls 'Speedcheck' kerb (or similar approved) laid at bottom of ramp up

7

TYPE 7 - 40mm x 150mm TIMBER EDGING (WSCC DETAIL S278/38/06)

NOTES:

1.

Based on topographic survey by WYG drawing numbered GS/404402/LAY/01

2.

Site layout taken from PHTV drawing numbered 543_RL_SITE LAYOUT_REV 1

3.

Drawing to be read in conjunction with the following Mayer Brown Drawings:
A/PHLITTLE-INT.1/110-1 & 2
A/PHLITTLE-INT.1/112-1 & 2
A/PHLITTLE-INT.1/119-1 & 2
A/PHLITTLE-INT.1/140, 141 & 142

4.

Drawing to be read in conjunction with latest WYG Landscaping drawings

5.

All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.

6.

Priora Subbase Aggregate - Open Graded Crushed Rock (OGCR) as supplied by Hanson to Marshalls Specification. All layers should be laid and compacted in accordance with the manufacturer's recommendations. This includes compacting in layers not exceeding 150mm in thickness or twice the nominal maximum aggregate size. All conventional rollers can be used for compaction as it is important to retain a void ratio of 32%. DO NOT USE VIBRATING ROLLERS.

KEY TO HEALTH AND SAFETY SYMBOLS

●

INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.

ⓘ

INDICATES A RESIDUAL RISK FOR INFORMATION.

⊘

INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.

⚠

INDICATES A RESIDUAL RISK AS A WARNING.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

CONSTRUCTION

MAINTENANCE/CLEANING/OPERATION
For details of maintenance of landscaping refer to WYG design
Cyclical maintenance of traffic signs, road markings, bollards and street lighting

DECOMMISSIONING/DEMOLITION

FOR CONTINUATION REFER TO DRAWING A/PHLITTLE-INT.1/111-1

MAIN AVENUE WORKS SUBJECT TO S38 TECHNICAL REVIEW, APPROVAL AND AGREEMENT WITH WSCC

FOR CONSTRUCTION

rev

amendment

checked

date

m3

mayer brown

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client

PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2

scale

1:250

drawn by

OJN

checked by

SP

date

NOVEMBER 2017

cad file

MASTER.DWG

title

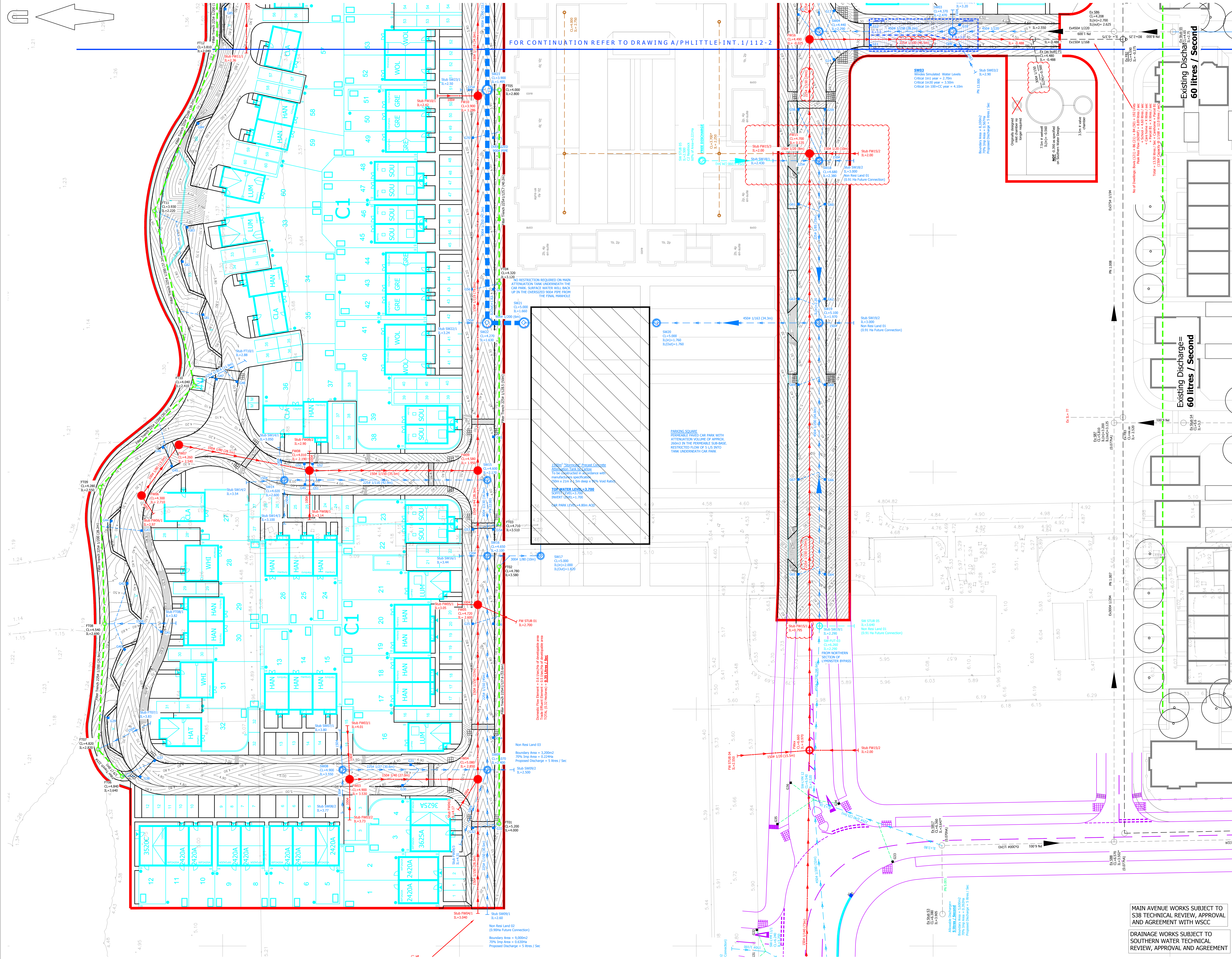
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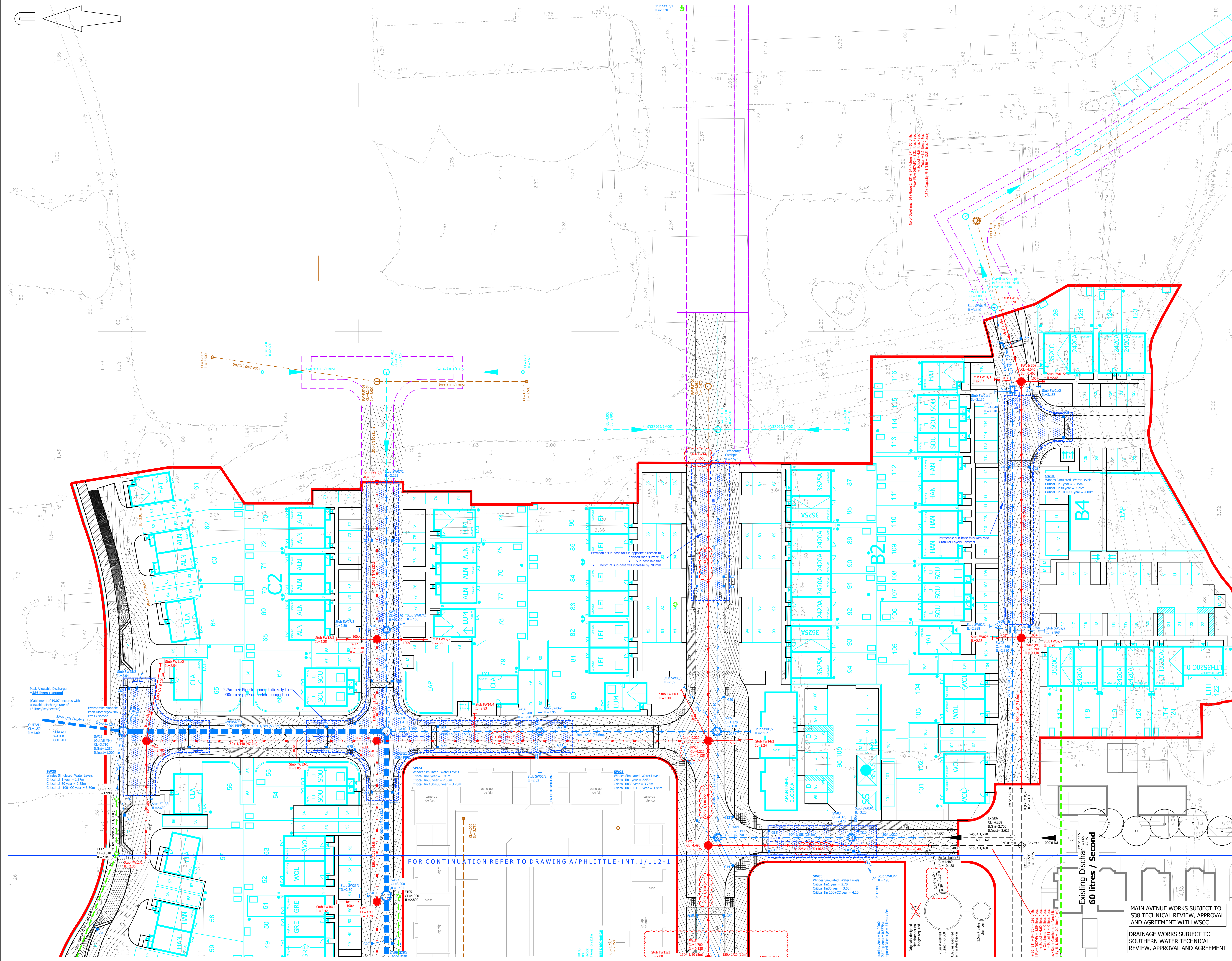
drawing number

A/PHLITTLE-INT.1/111-2

rev.

C2





A0 ORIGINAL

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SURFACE WATER KEY

- | | |
|---|---|
|  | PROPOSED SEWER AND MANHOLE |
|  | PROPOSED OVERSIZED PIPE |
|  | PROPOSED GULLY AND GULLY CONNECTION |
|  | OUTLINE OF PERMEABLE SUBBASE BENEATH CARRIAGEWAY (REFER TO DETAILS A/PHILITE-INT.1/MB/F/02) |
|  | PROPOSED DISPERSION PIPE INTO SUBBASE (REFER TO DETAIL A/PHILITE-INT.1/MB/F/02) |
|  | PROPOSED COLLECTION DRAIN WITHIN CARRIAGEWAY (REFER TO DETAIL A/PHILITE-INT.1/MB/F/02) |
|  | PROPOSED ATTENUATION TANK |
|  | PROPOSED FILTER TRENCH |
|  | EXISTING SEWER AND MANHOLE |
|  | PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS |

FOUL WATER KEY

-  PROPOSED SEWER AND MANHOLE
 PROPOSED BACKDROP MANHOLE
 EXISTING SEWER AND MANHOLE
 PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS
 SITE BOUNDARY

NOTES

2. This drawing is not to be scaled
3. This drawing is to be read in conjunction with the MJA Contract Conditions of Sale, Sheet 17 'drawing reference 6691-01'. This drawing is to be read in conjunction with the latest revision of the Highways Agency's 'Specification for Works by WYG in 2010'. Drawing number GGL/04/0025/01/AV/01.
4. Site layout taken from PH17Y drawing number 543_P, SITE AV/01
5. The proposed road and footpath levels have been set to ensure they are a minimum of 300mm above the nearest 1-in-100yr flood level. The levels are as described on the drawing and are not to be reported. The finished floor levels of the proposed dwellings will be above the adjacent road and footpath levels to ensure they are a minimum of 300mm above the flood level.
6. All on-site culverts and drainage works constructed in accordance with the Mayor Brown Limited Specification, details and schedules.
7. Proprietary items are to be constructed in accordance with manufacturers recommendations / requirements.
8. All drainage works shall be constructed in accordance with the requirements of the Local Authority, the Environment Agency and in conjunction with all relevant British Standards, Codes of Practice and Sewers for Adoption 2011 7th Edition and any amendments as appropriate.
9. All drains and positions of existing drains / chambers / sewers where new connections are to be made shall be inspected and confirmed to the engineer prior to the commencement of any works.
10. All manholes and catchpits are to be soffit to soffit unless noted otherwise. Invert level shown is outlet pipe.
11. Any part of the existing drainage system to be replaced as part of the new scheme shall be replaced in kind and inspected and approved. Structural defects shall be repaired using appropriate and structural means.
12. All drains shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
13. All drains connecting into the public drainage network to be vitrified clay, extra strength to BS EN 752 or BS655 with plain end and standard finished flange.
14. All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
15. Manhole frames shall be made of cast iron or 24 and shall be kitemarked. The strength classes of covers are shown in the manhole schedules.
16. Cover levels are to be adjusted to suit finished ground levels.
17. HEALTH AND SAFETY: The works shall be carried out by specialist contractors who are experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations to be undertaken. All works shall be carried out in accordance with all pertinent Health and Safety Regulations.
18. All works and materials shall comply with the Highways Agency Handbook for the Construction of Highways (MCHW) and West Sussex County Council Standard details.

FOR CONSTRUCTION

C3	Foul drainage altered, refer to revision clouds. (OJN)	SF	14/03/2018
C2	Drainage strategy updated and in abeyance revision cloud removed. (IC)	SF	20/02/2018
C1	Drainage strategy updated. (OJN)	SF	09/02/2018
T4	Notes updated. (OJN)	SF	23/01/2018
T3	Site layout updated and abeyance area removed. (OJN)	SF	16/01/2018
T2	General update. (IC)	SF	01/12/2017
T1	Initial tender issue. (OJN)	SF	10/11/2017

rev.	amendment	checked	date
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client
PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2

scale	1:250	drawn by	OJN	checked by	SF
date	NOVEMBER 2013		cad file	MACTED.DWG	

title

DRAINAGE GENERAL ARRANGEMENT (2 OF 2)

drawing number	rev.
A/PHLITTLE-INT.1/112-2	C3

NOTES:

1. All dimensions are in millimetres unless otherwise stated.

2. All drainage works shall be carried out in accordance with the water services association "Sewers For Adoption - 7th Edition."

3. In situ and precast concrete units shall have sulphate resisting Portland cement to BS 4027, unless agreed otherwise with the adopting authority.

Concrete
For designed, designated or standardised prescribed concrete refer to BS en 206-1 and BS 8500.

Pipes
Concrete pipes to be to BS en 1916 & BS 5911-1, clayware pipes to be to BS en 295. Thermoplastics structured wall pipe shall comply with the relevant provisions of WIS 4-35-01. Pipes shall be BS1 kitemarked or have equivalent third party certification. Pipes shall be class 8kN/m² nominal short term ring stiffness.

Backfill to Trenches - Within Highways
All trenches situated within highways or prospective highways to be backfilled in accordance with the local highway authority requirements or if none available in accordance with clause 3.6.4 of CESWI, i.e. HAUC specification for the reinstatement of openings in highways appendix A1 classes a, b, c and d.

Backfill to Trenches - Outside Highways
Below hard paved areas backfill to be same as within highways.

Backfill to Trenches - Soft Areas
Shall to comply with specification for highway works class 6. Backfill to comply with specification for highway works class 1, 2 or 3 see backfill to trenches below hard paved area

Pipe Bedding and Fill Material
Unless otherwise stated bedding to all pipes to be "class 2". Class "2" bedding detail shall be provided where cover to the pipe barrel is less than 1.2m in vehicular trafficked areas and 0.9m elsewhere, to all road gully connections and within areas of deep rooting vegetation. Where class 2 trench bedding detail is used, the concrete bed and surround shall be discontinued at each pipe joint over the full cross section by means of a shaped compressible filler (see table). Granular bedding type "A" for pipes and backfilling material for temporary drains (trench sub-drains), shall comply with clause 2.88 of CESWI, sized in accordance with the following table:

NOMINAL BORE OF PIPE (mm)	ALTERNATIVE AGGREGATE SIZES (mm)
150	10 or 14
200-300	10, 14 or 20
375-525	14 to 5 or 20 to 5
EXCEEDING 525	14 to 5 or 20 to 5

Reference should be made to BS 882 table 4. Selected fill type 'B' shall comply with clause 2.49 of CESWI.

Short Pipes
At chambers/rocker pipes not withstanding specific requirements for individual chamber types all pipes leading to and from chambers must meet the requirements of clause 5.19 of CESWI.

Manhole Chambers
All pipes shall be laid soffit to soffit unless stated otherwise on the manhole schedule. Manhole ring diameters shall comply with table 2.2 of "Sewers For Adoption 7th Edition." Manholes, soakways & cover slabs to be BS en 1917 and BS 5911-3.

Manhole Covers
All manhole covers should be built in accordance with the relevant provisions of BS EN124 (kitemarked) and be bedded and haunched in mortar. All covers to adoptable manholes shall be marked PV or SW if on a foul or surface water sewer respectively. They shall be coated with black bituminous composition in accordance with BS EN124.

Infill Covers shall not be used
Where a cover is located in block paving, the frame shall be 150 deep. Frames for manholes shall be bedded in polyester resin bedding mortar in NRSWA categories I, II or III.

Joints to Manhole Rings and Slabs
All manhole rings and slabs shall be jointed with mortar, proprietary bitumen or resin mastic sealant. All manhole frames to be set parallel to adjacent kerbs or nearest buildings. Manhole covers and frames to be flush with surface ±5mm max.

Concrete Protection to Pipes
To be in accordance with clause 5.3 of CESWI. At the discretion of the engineer, away from chambers and where ground conditions permit the length of uninterrupted concrete protection may be increased to 8m.

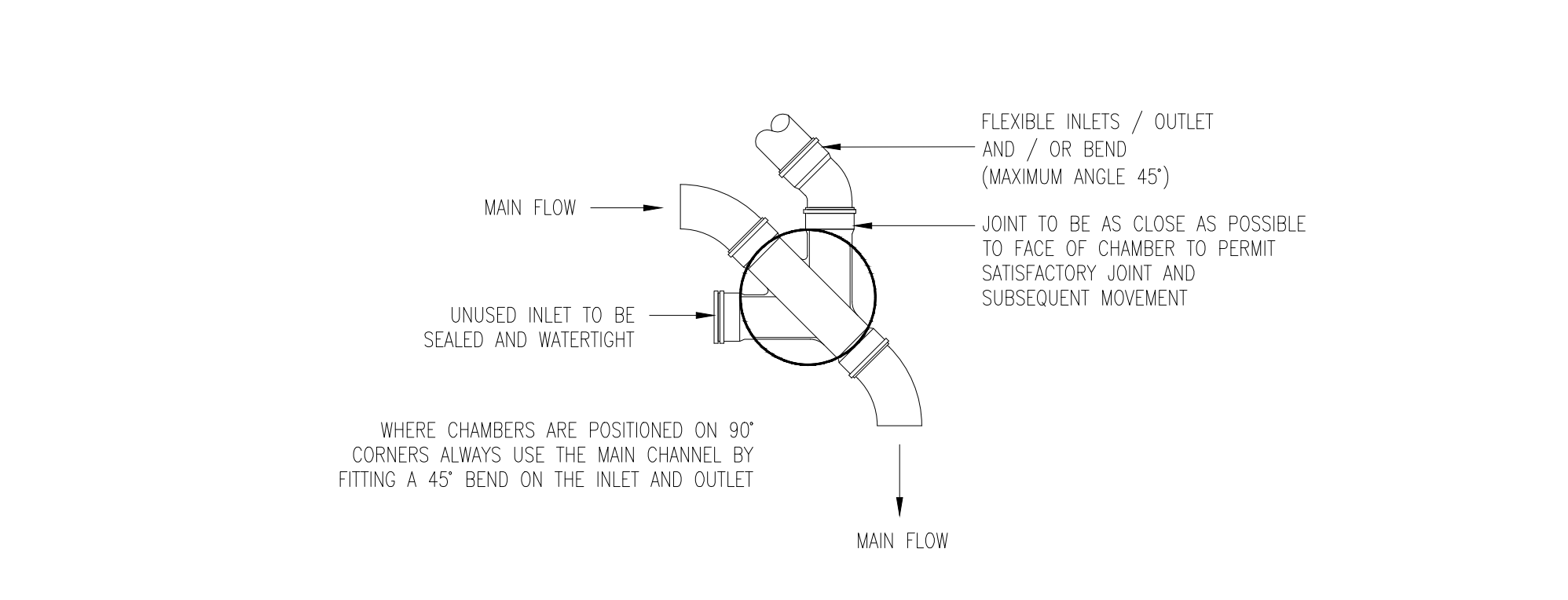
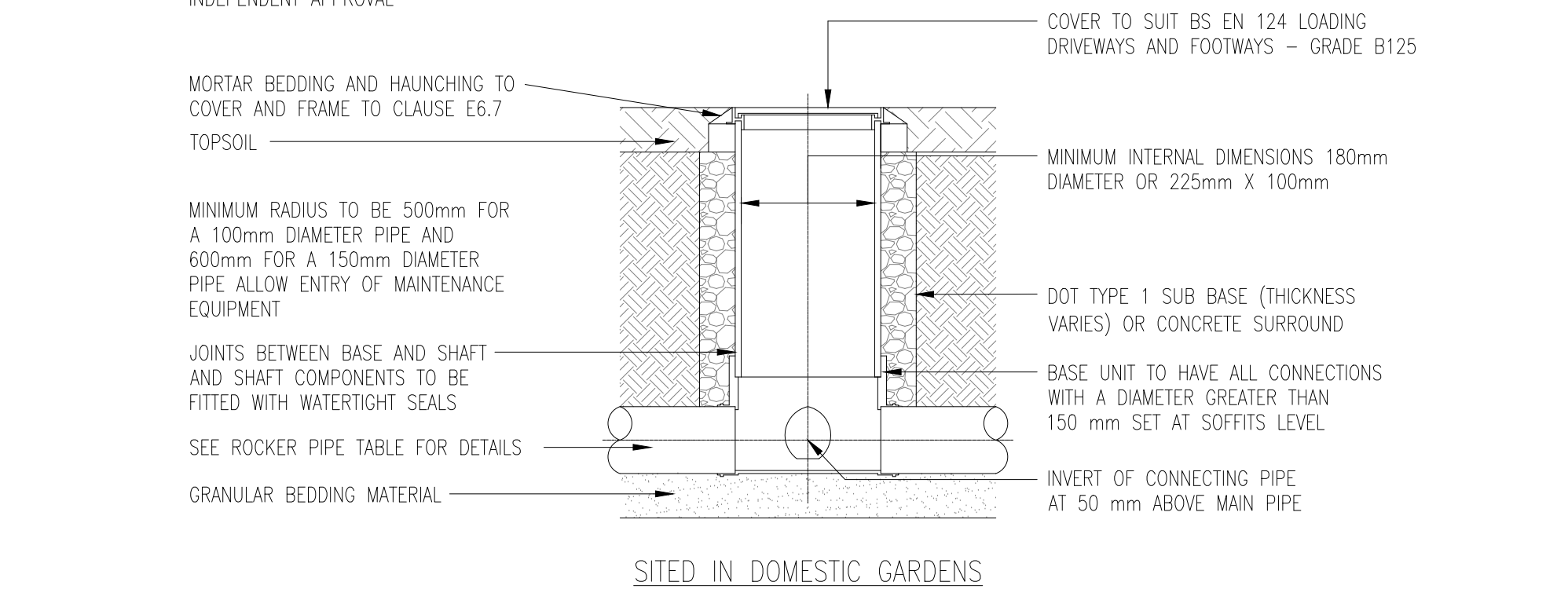
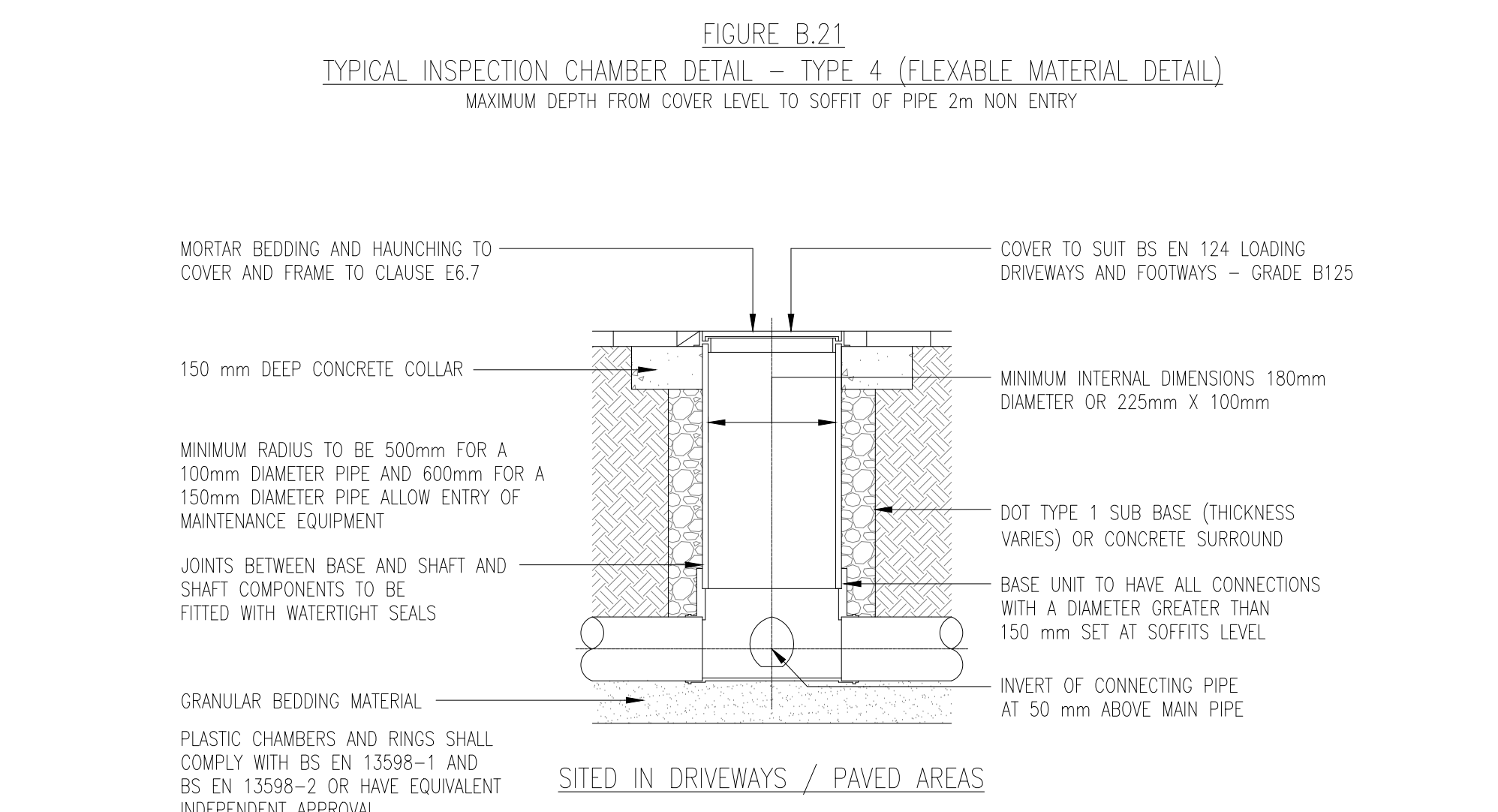
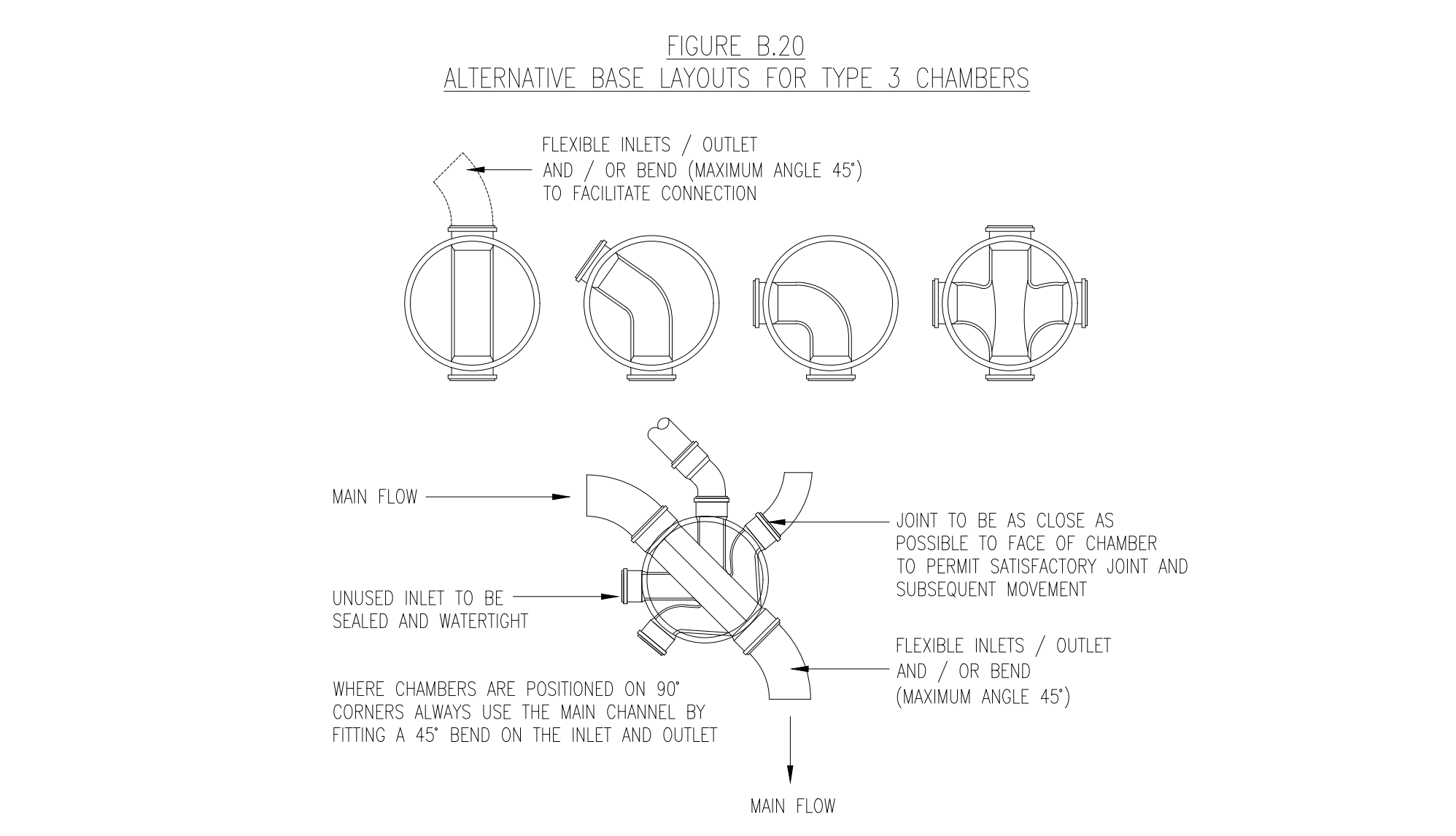
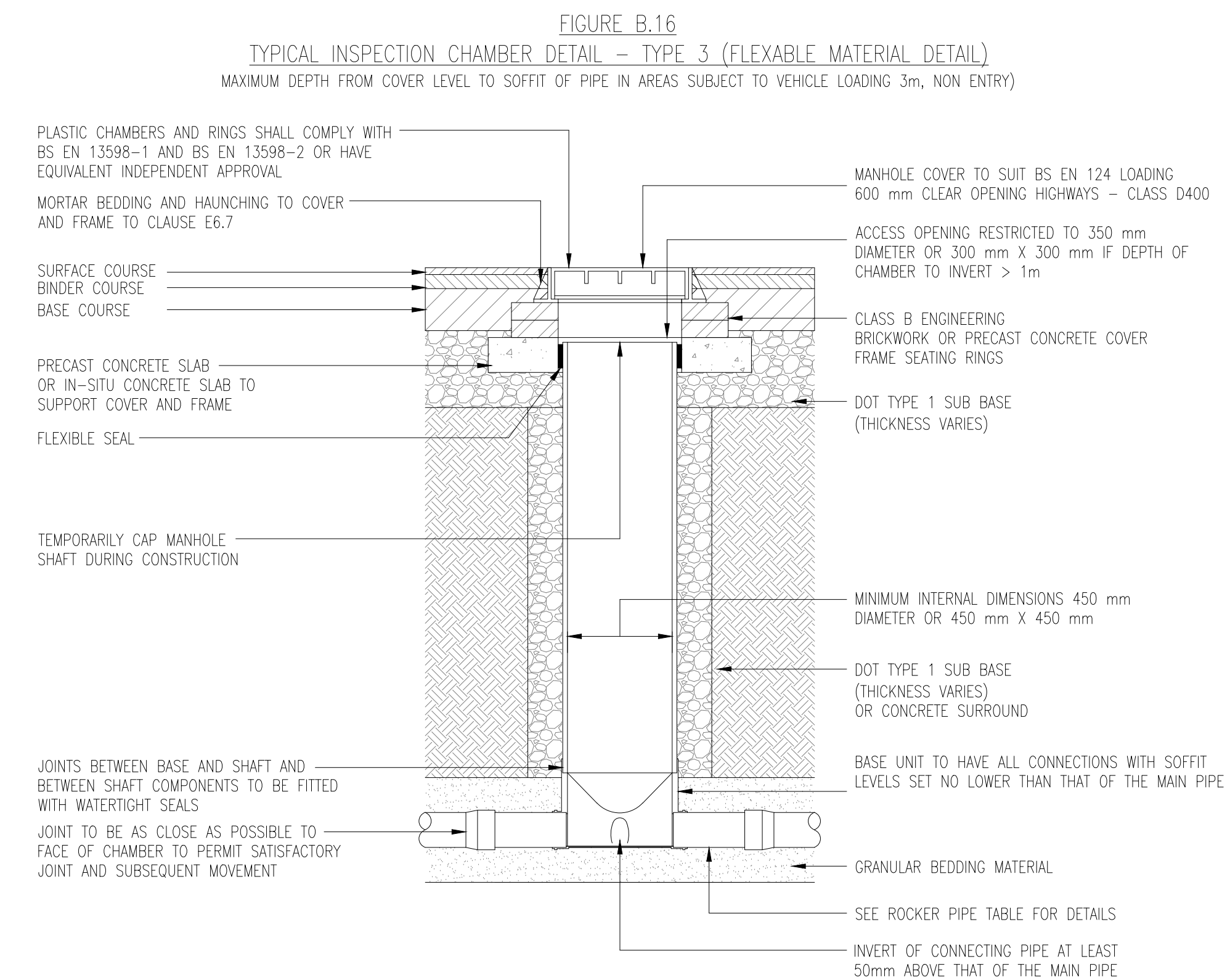
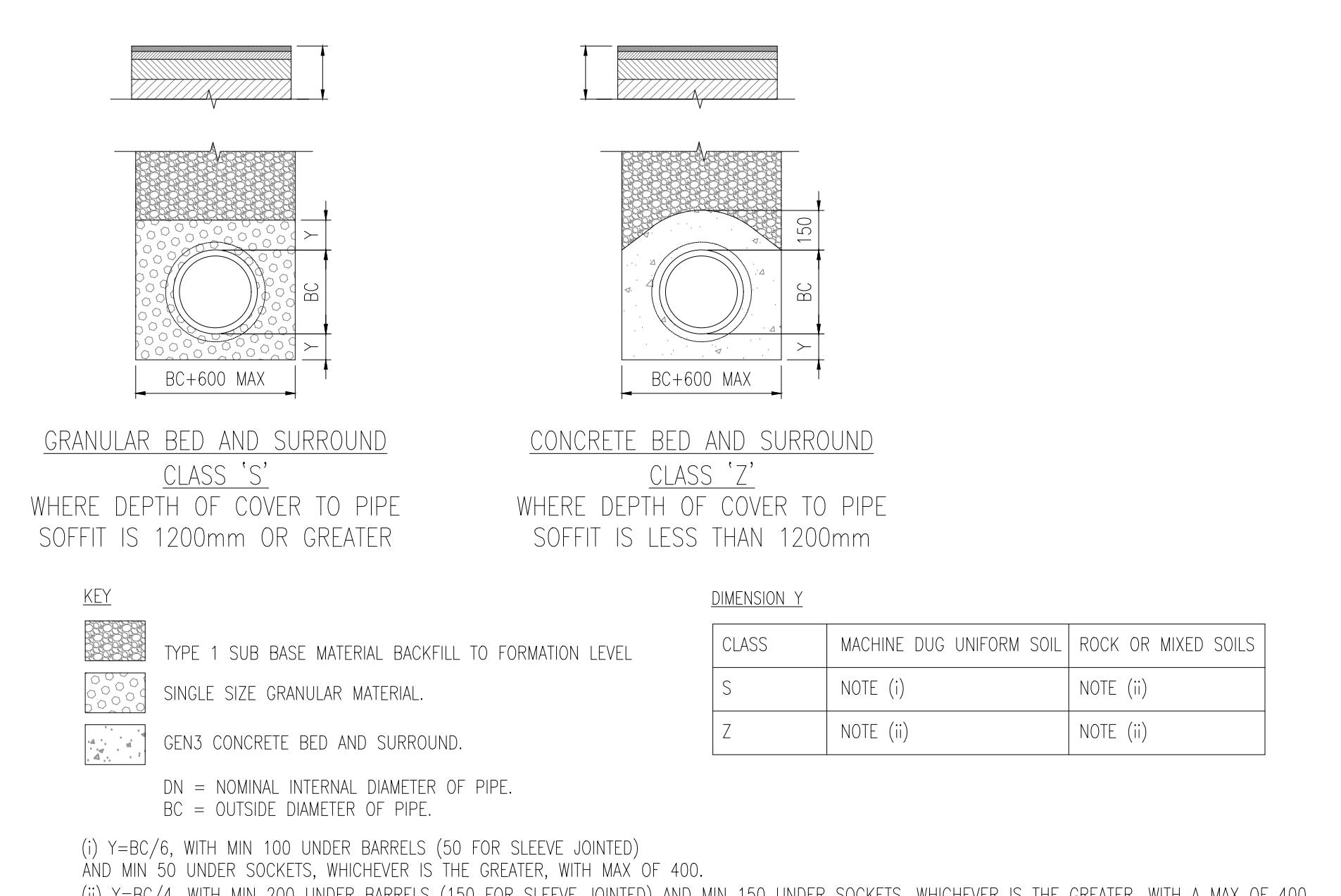
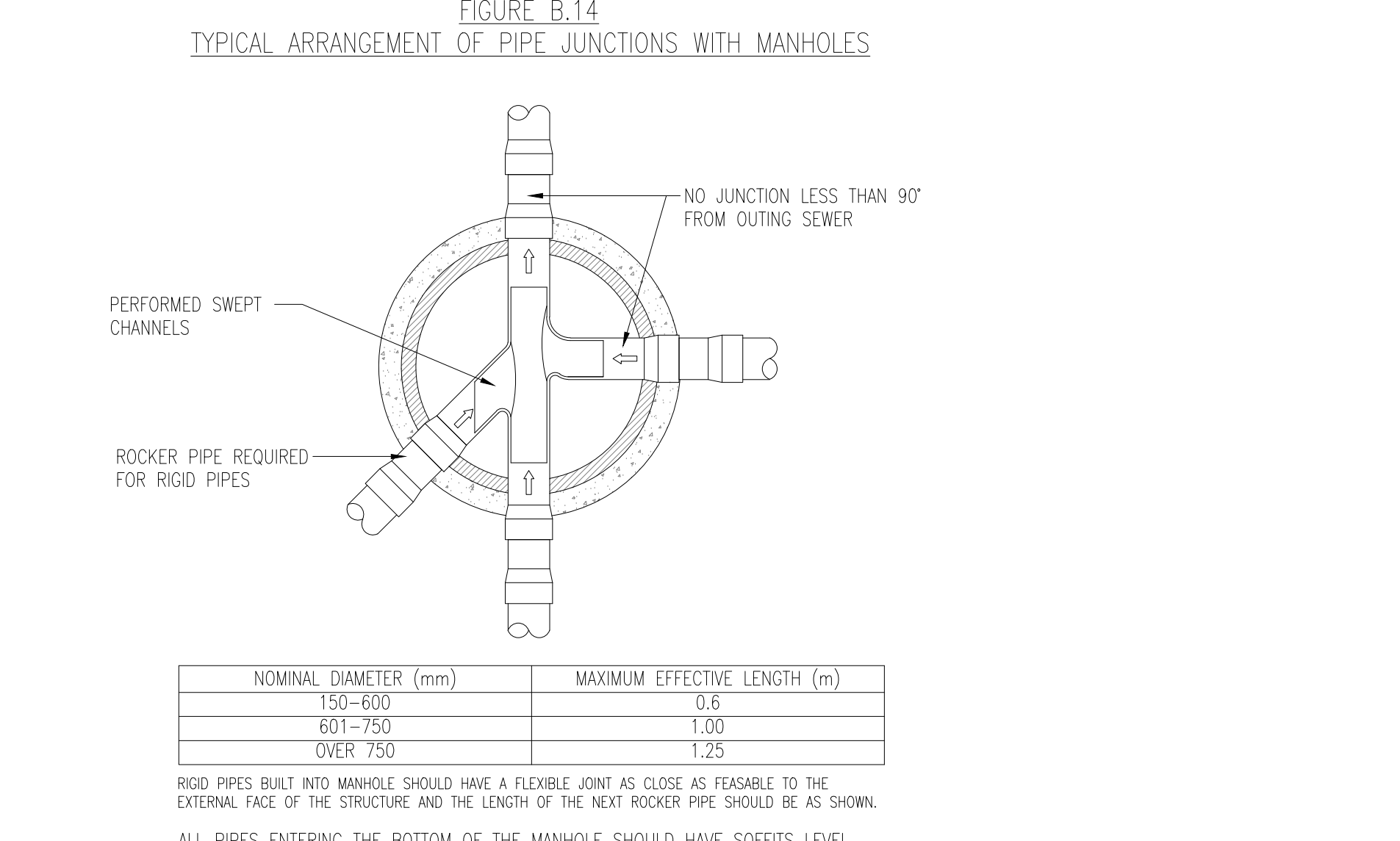
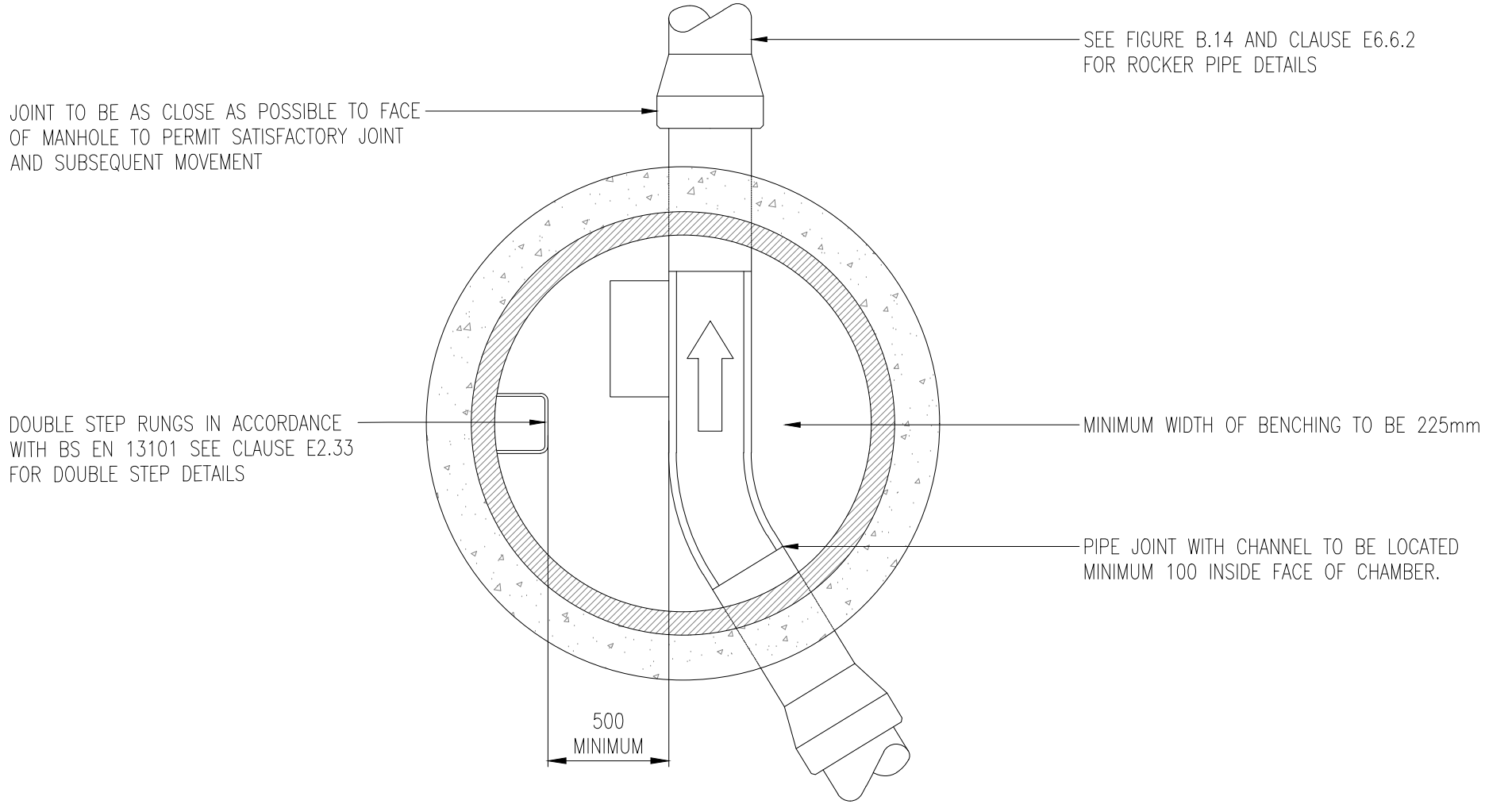
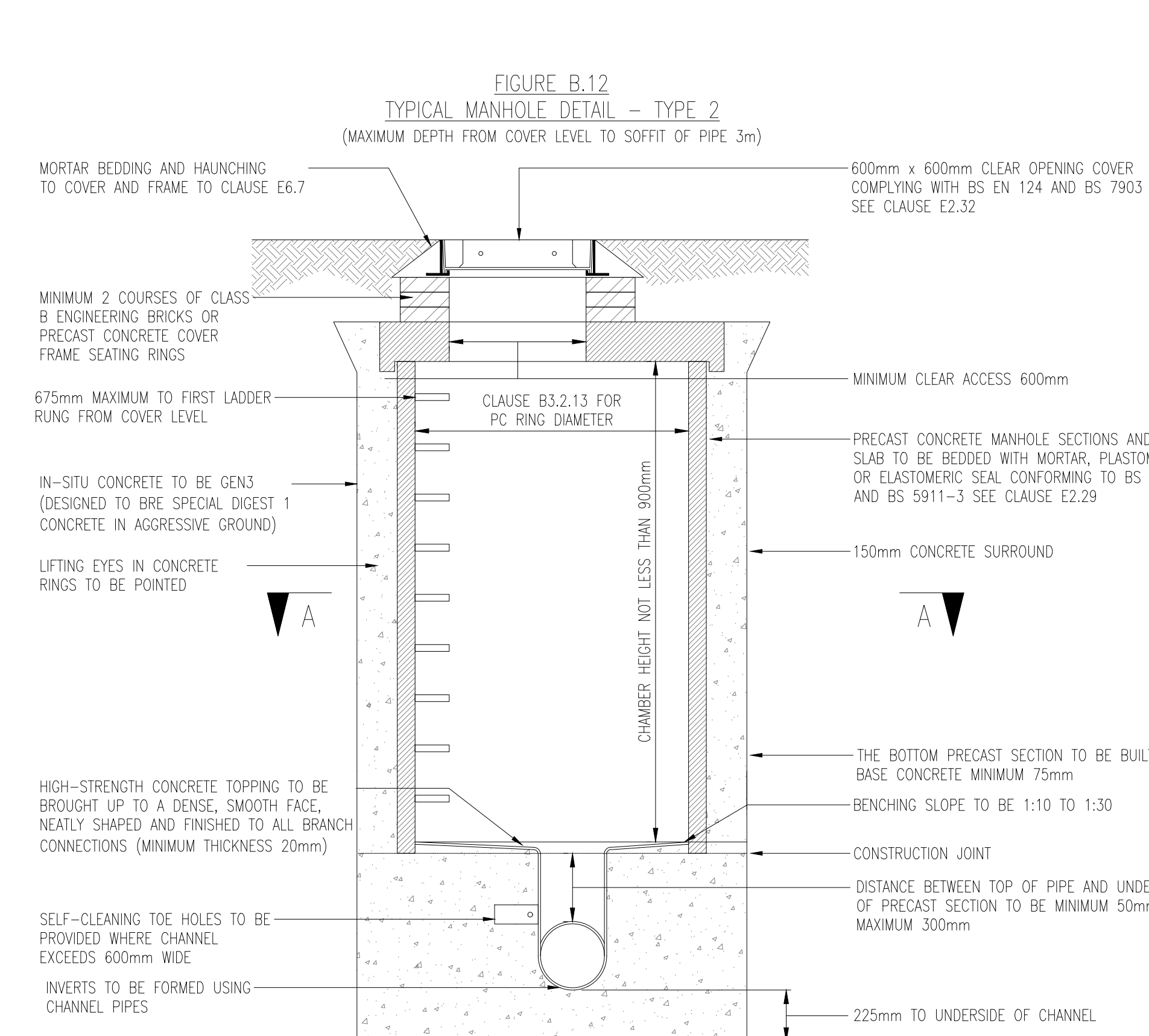
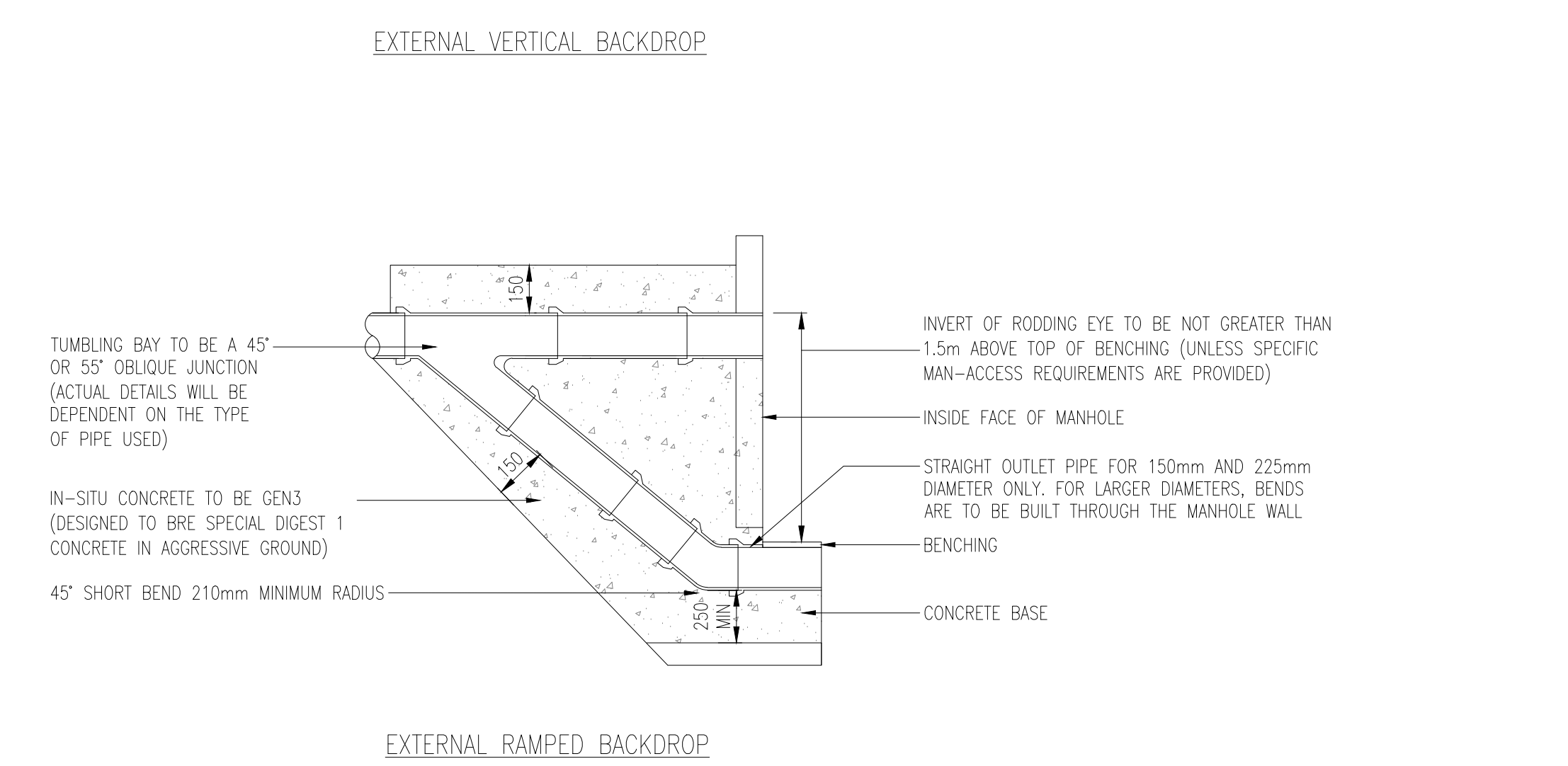
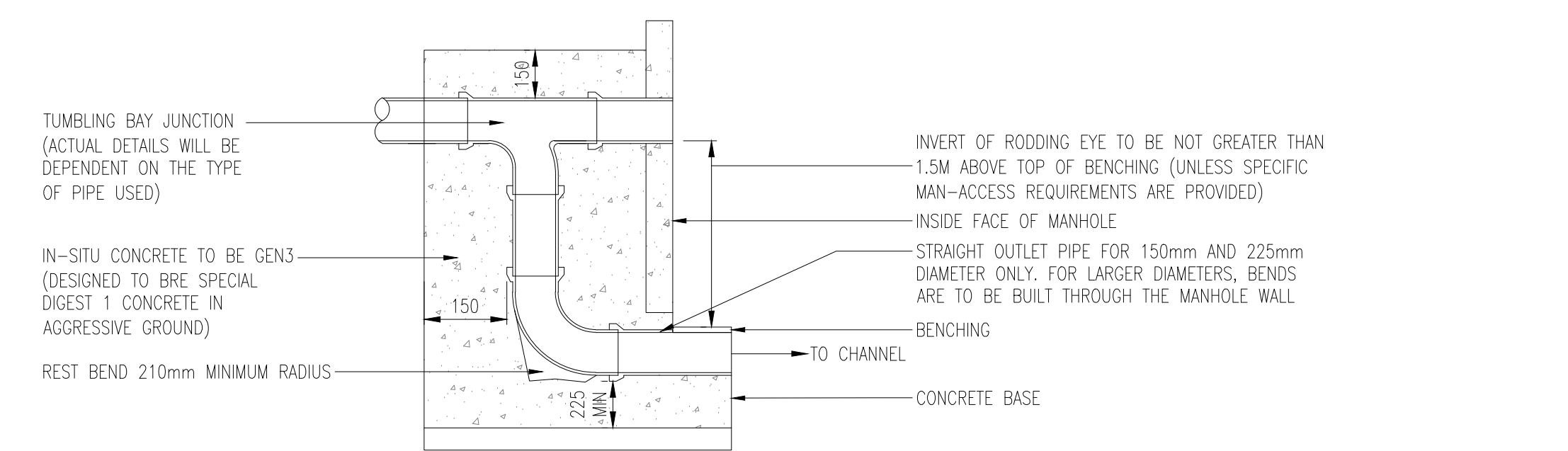
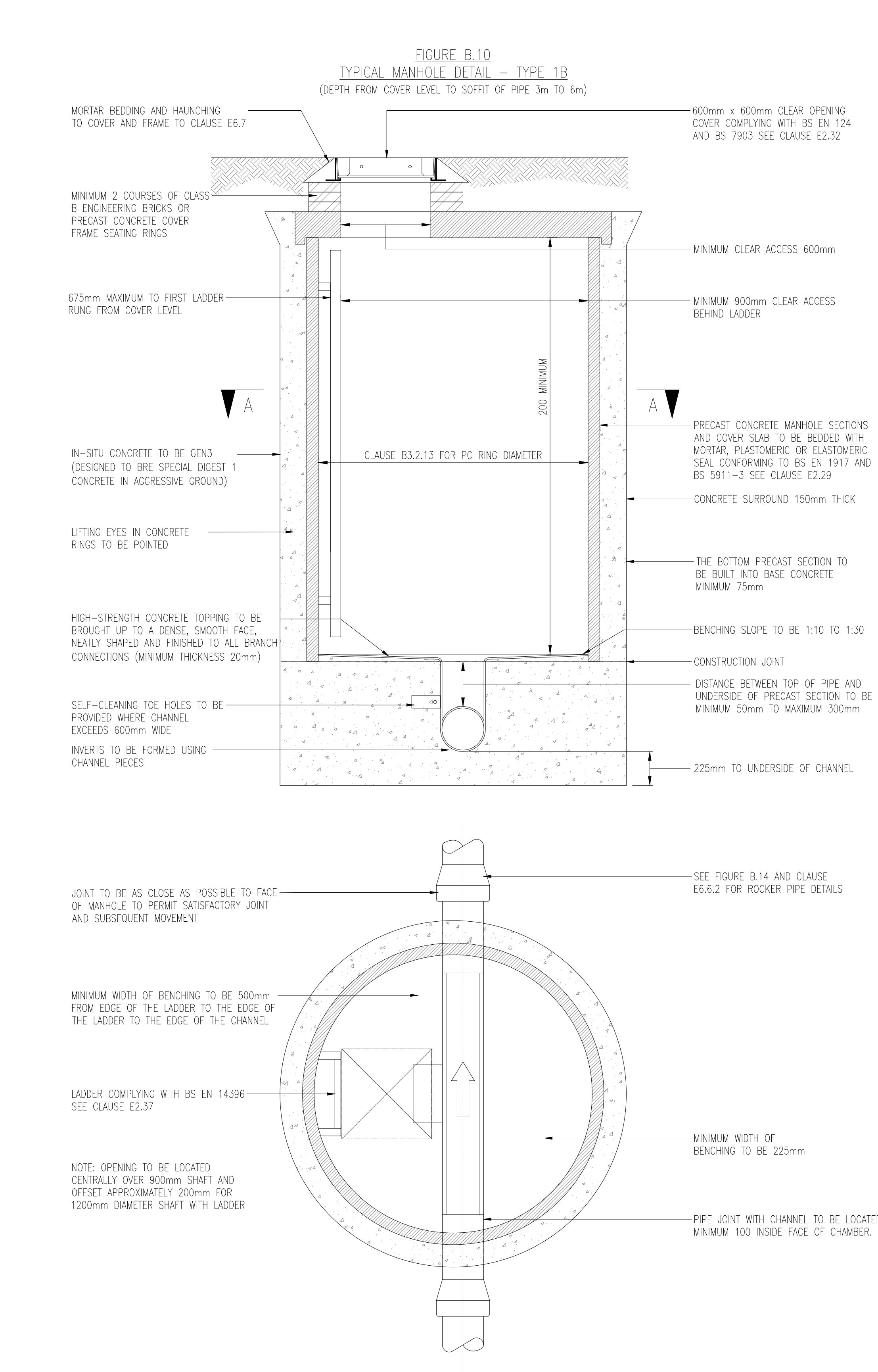
Compressible Filler for Pipelines
To be used to interrupt concrete protection to pipelines and shall comply with clause 2.19 of CESWI.

Trench Width Note
The maximum trench width must not be exceeded. If the width is exceeded the contractor must submit revised bedding proposals to the engineer.

Soft Spots and Overdig
Soft spots shall be removed from the bottom of the trench and other excavations and then be refilled to formation level with the same material as the permanent work which is to rest on that formation. Overdig shall be treated in the same manner at contractors expense.

FOR APPROVAL
NOT FOR CONSTRUCTION

Initial issue (IC)	SF	???	
rev.	amendment	checked	date
m3 mayer brown			
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client PERSIMMON HOMES THAMES VALLEY			
project NORTH LITTLEHAMPTON PHASE 2 PARCEL C1 AND PART PARCELS B2, B4 & C2			
scale	N.T.S.	drawn by	IC
date	AUGUST 2018	checked by	SF
title S104 FOUL DRAINAGE CONSTRUCTION DETAILS			
drawing number	rev.		



A1 ORIGINAL

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NOTES

- Carriageway sub-base and capping layer thicknesses are to be determined in accordance with the WSCC detail numbered S278/38/21, unless otherwise agreed.
- The CBR of the subgrade been assumed to be 2%. The Contractor is responsible for determining the subgrade CBR values prior to commencement of the works via long term laboratory testing. The CBR test locations, values and hence the road foundation thicknesses shall be agreed in writing with the Highway Authority prior to constructing these elements.
- No material within 450mm of the carriageway surface shall be frost susceptible.
- Where directed by the Engineer the Contractor shall carry out additional testing in order to prove the CBR value of the sub-grade material.
- This drawing is to be read in conjunction with MBL detail reference PHLITTLE-INT.2_MB/F/02 that shows how surface run-off is discharged into and collected from the OGCR permeable sub-base.
- All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.

WSCC ADOPTABLE ESTATE ROADS

- IN ACCORDANCE WITH WSCC S278/38/21
- MAIN AVENUE - LOCAL DISTRIBUTOR
- BASED UPON 2% CBR

FLE▯BLE CARRIAGEWAY & FLE▯BLE RAISED TABLE

- SURFACE: 50mm
- BINDER: 60mm
- BASE: 150mm
- TYPE 1: 150mm
- 6F CAPPING: 600mm

NON ADOPTABLE ESTATE ROADS ▯

STANDARD CONSTRUCTION

- IN ACCORDANCE WITH ACCORDANCE WITH WSCC S278/16, -/21 AND MBL DETAIL REFERENCE MB/C/01
- ACCESS ROAD (<200 DWELLINGS)
- BASED UPON 2% CBR

FLE▯BLE CARRIAGEWAY

- SURFACE: 30mm
- BINDER: 60mm
- BASE: 100mm
- TYPE 1: 150mm
- 6F CAPPING: 600mm

BLOCK PAVED RAISED TABLE

- BLOCK: 80mm BLOCK
- SAND: 30mm SAND
- BASE: 100mm
- TYPE 1: 150mm
- 6F CAPPING: 655mm

NON ADOPTABLE ESTATE ROADS ▯

PERMEABLE SUB-BASE CONSTRUCTION

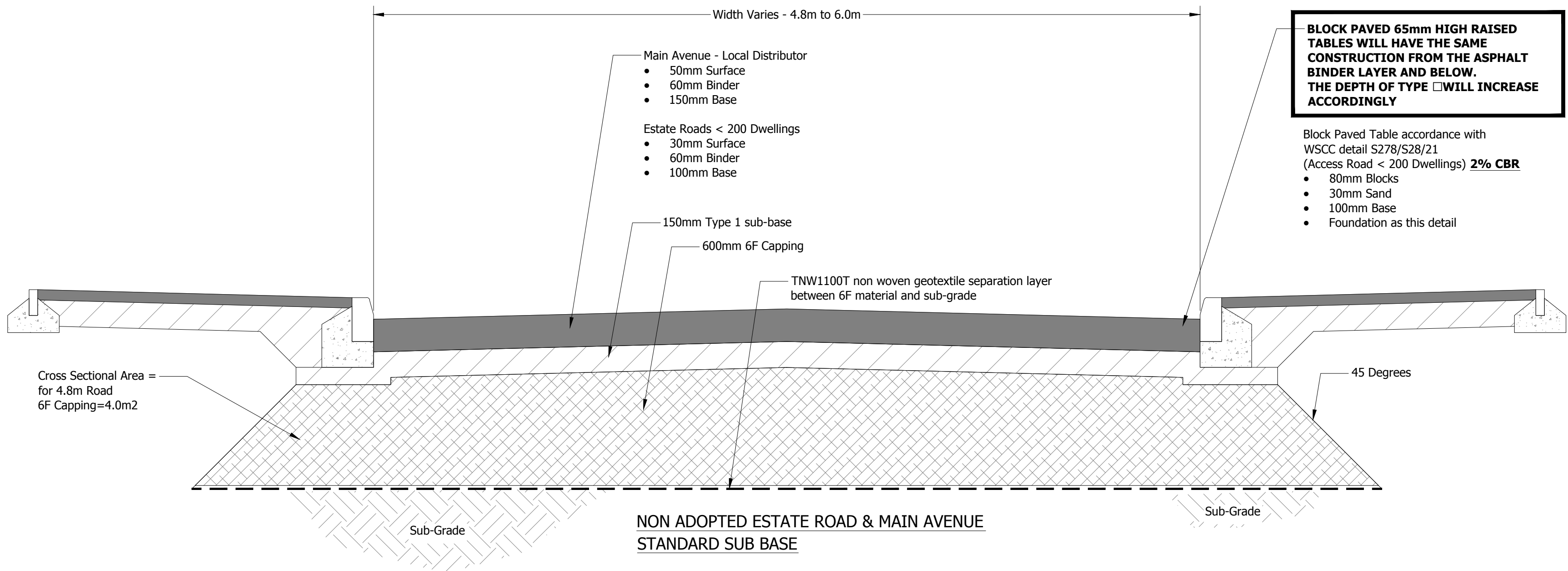
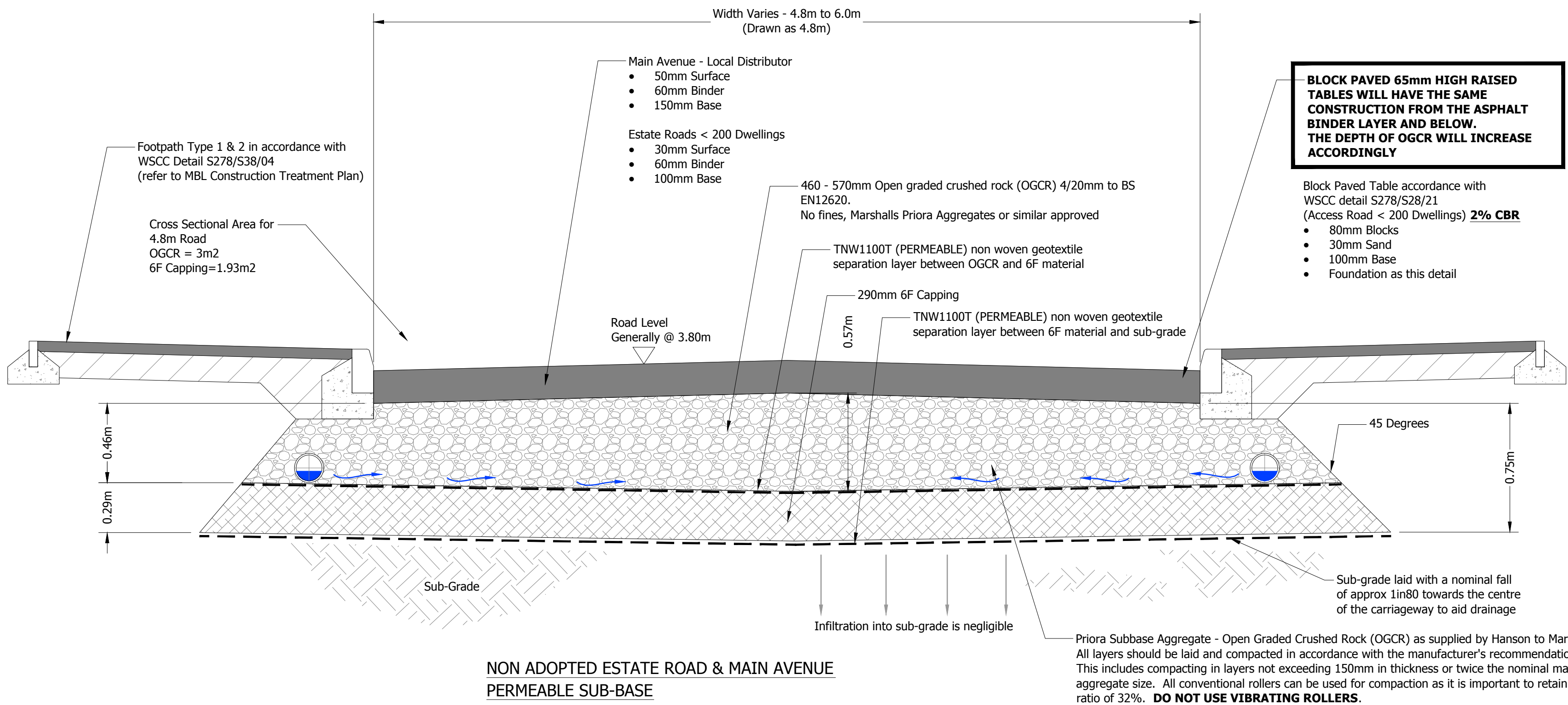
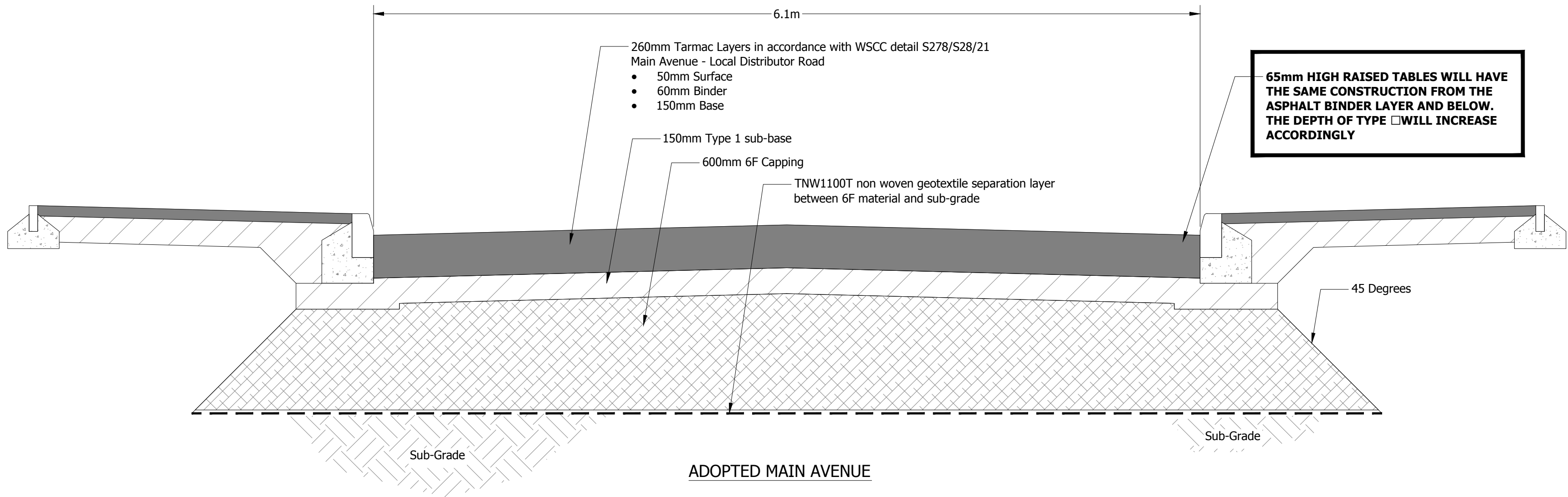
- SURFACING IN ACCORDANCE WITH WSCC S278/38/21 AND MBL DETAIL REFERENCE MB/C/01 AND MB/F/02
- ACCESS ROAD (<200 DWELLINGS)
- BASED UPON 2% CBR

FLE▯BLE CARRIAGEWAY

- SURFACE: 30mm
- BINDER: 60mm
- BASE: 100mm
- TYPE 1: 150mm
- OPEN GRADED CRUSHED ROCK: 460mm min.
- 6F CAPPING: 290mm

BLOCK PAVED RAISED TABLE

- BLOCK: 80mm BLOCK
- SAND: 30mm SAND
- BASE: 100mm
- TYPE 1: 150mm
- OPEN GRADED CRUSHED ROCK: 505mm min.
- 6F CAPPING: 290mm



FOR CONSTRUCTION

C2	References to flood levels on permeable sub-base roads removed. Note about attenuation within sub-base removed	SF	03/01/19
C1	Construction issue. (ON)	SF	09/02/18
T1	Initial issue. (SF)	SF	08/02/18

rev.	amendment	checked	date
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project
NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCEL B2, B4 AND C2

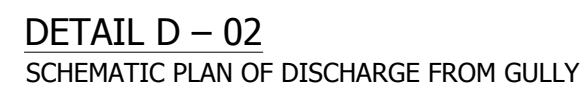
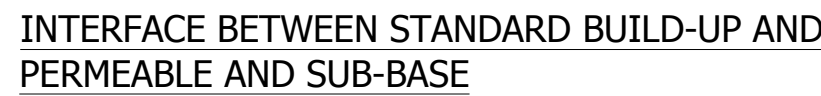
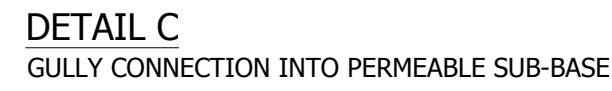
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date FEBRUARY 2018 cad file MBC01.DWG

title
ADOPTED & NON ADOPTED ROADS
CONSTRUCTION DETAILS

drawing number A/PHLITTLE-INT.2_MB/C/01 rev. C2

1. Carriageway sub-base and capping layer thicknesses are to be determined in accordance with the WSCC detail numbered S278/38/21, unless otherwise agreed.
2. The CBR of the subgrade has been assumed to be 2%. The Contractor is responsible for determining the subgrade CBR values prior to commencement of the works via long term laboratory testing. The CBR test locations, values and hence the road foundation thicknesses shall be agreed in writing with the Highway Authority prior to constructing these elements.
3. No material within 450mm of the carriageway surface shall be frost susceptible.
4. Where directed by the Engineer the Contractor shall carry out additional testing in order to prove the CBR value of the sub-grade material.
5. All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.



FOR CONSTRUCTION)

C2	References to flood levels on permeable sub-base roads removed. (OJN)	SF	10/01/2019
C1	Construction issue. (OJN)	SF	09/02/18
T1	Initial issue. (SF)	SF	08/02/18

rev.	amendment	checked	date
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NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCEL B2, B4 AND C2

scale	1:20	drawn by	SF	checked by	SF
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date	FEBRUARY 2018	cad file	MBC01.DWG
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title

PERMEABLE SUB-BASE ROAD CONSTRUCTION DETAILS

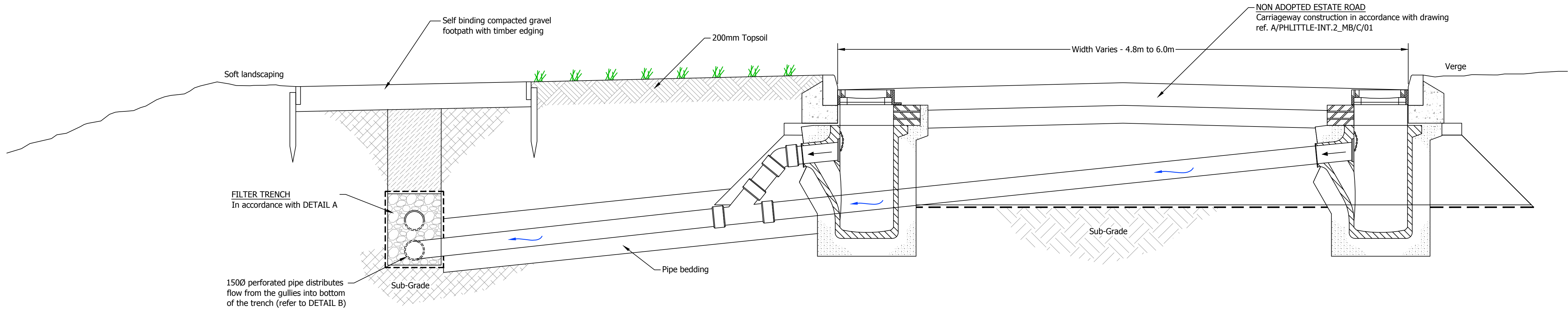
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A/PHLITTLE-INT.2_MB/F/02	C2

NOTES

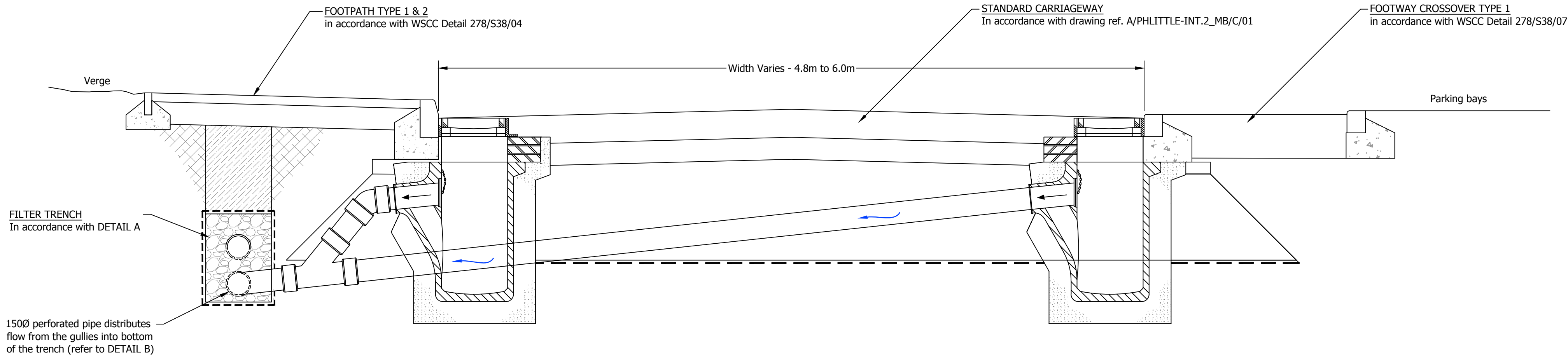
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- To be read in conjunction with:
Drainage General Arrangement drawing reference
A/PHLITTLE-INT.1/112-1, -/2C

Construction Treatments drawing reference
A/PHLITTLE-INT.1/111-1, -/2C

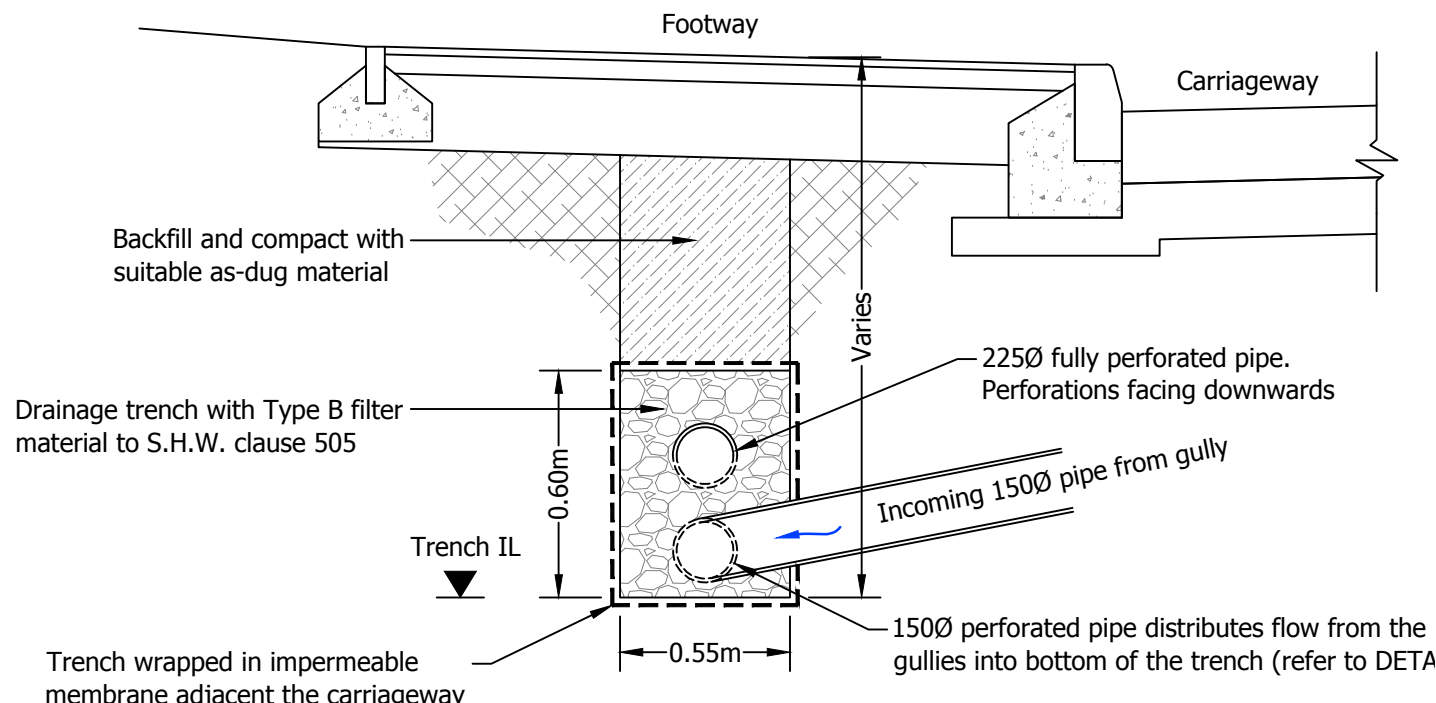
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reference A/PHLITTLE-INT.2_MB/C/01.



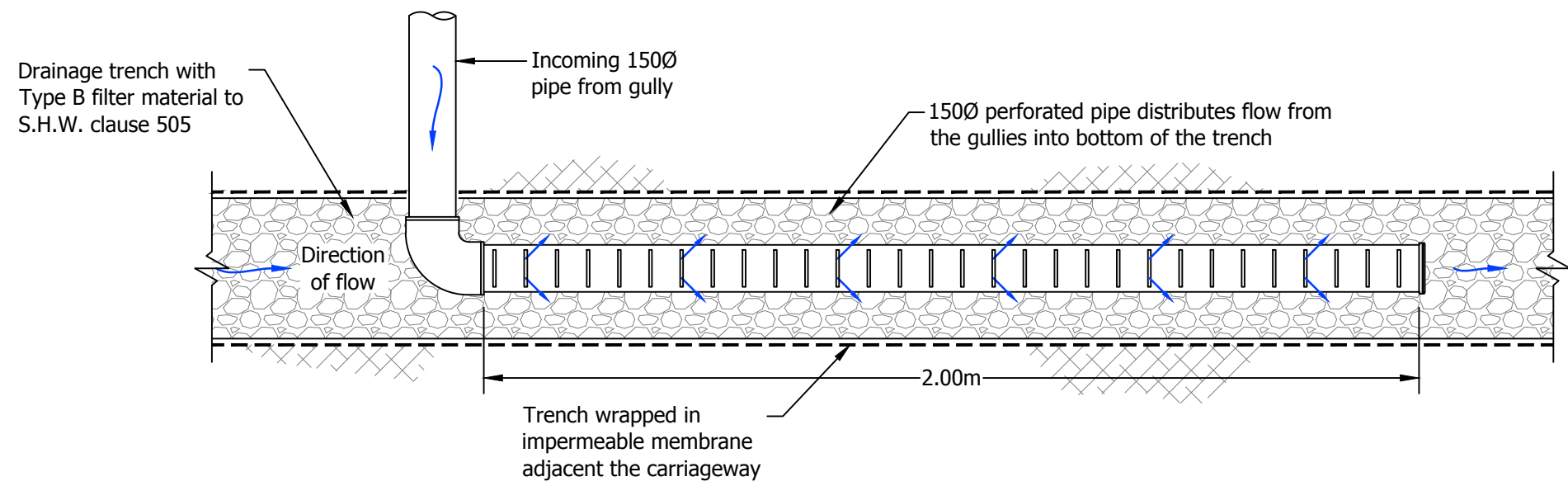
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ESTATE ROAD



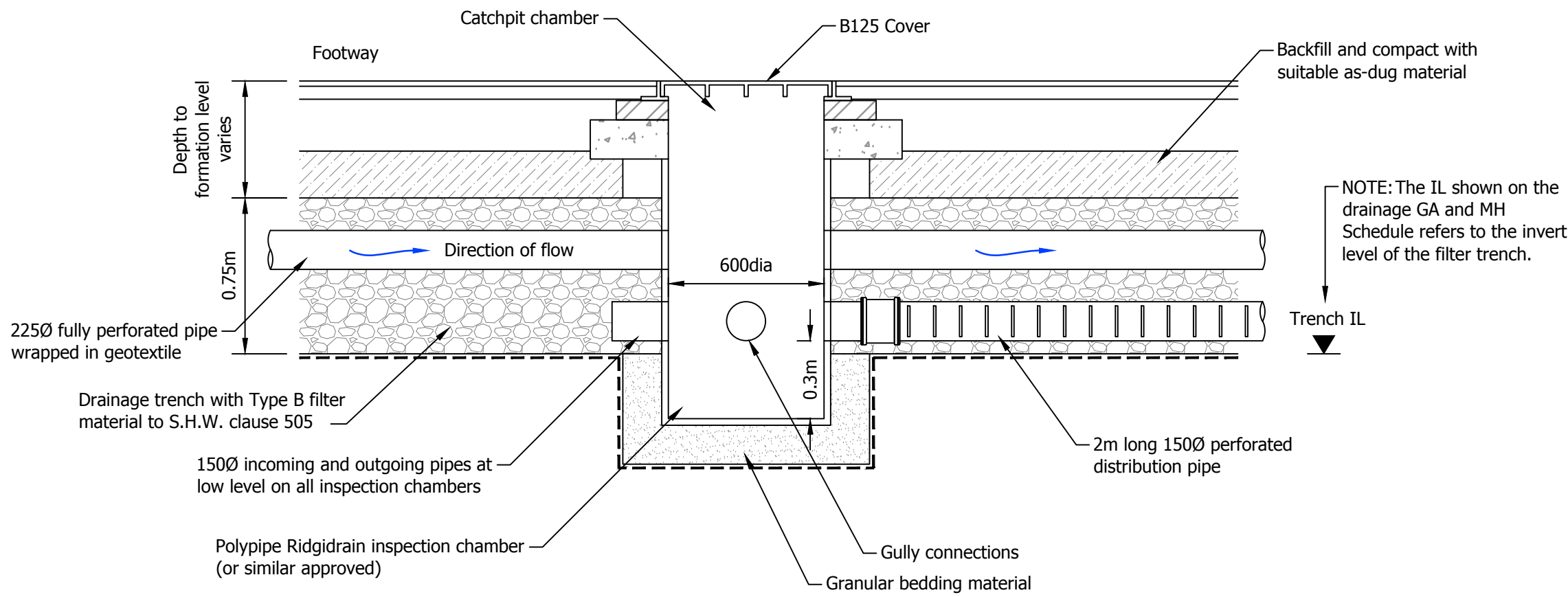
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ROAD 6



DETAIL A: FILTER TRENCH CROSS SECTION



DETAIL B: DISTRIBUTION PIPE PLAN VIEW



DETAIL C: LONG SECTION THROUGH FILTER TRENCH AND INSPECTION CHAMBER

FOR CONSTRUCTION

C1	Initial construction issue. (IC)	SF	20/02/2018
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rev.	amendment	checked	date
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client	PERSIMMON HOMES THAMES VALLEY		
project	NORTH LITTLEHAMPTON PHASE 2 PARCEL C1 AND PART PARCELS B2, B4 AND C2		
scale	1:20	drawn by	IC
date	FEBRUARY 2018	checked by	SF
cad file	MBC01.DWG		
title	FILTER TRENCH CONSTRUCTION DETAIL		
drawing number	A/PHLITTLE-INT.2_MB/F/03		rev.
		C1	