

OUTFALL A

FOLIAGE

REV. No.	DATE	DESCRIPTION	INITIALS	
Client	Persimmon Homes (Thames Valley)			
Project	Phase 2 Littlehampton		Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226	
Title	Drainage Layout (Sheet 2)		Scale 1:250 @A0 Checked KTC Drawn J.M.I.	Date Oct '17 Drawing No. 5691:02
Rev				

KEY:

Stepped Cavity Tray (raised DPC or appropriate tanking for construction method)

SCT

External Brickwork

EXT BWK

Tanking

T T T

Slab on Edge

SOE

Retaining Wall

RWALL

Fall Arrows

▲

Proposed Levels

xxx.xxx

Primary Access

▼

Secondary Access

▽

Finished floor levels shown thus: FFL 10.00

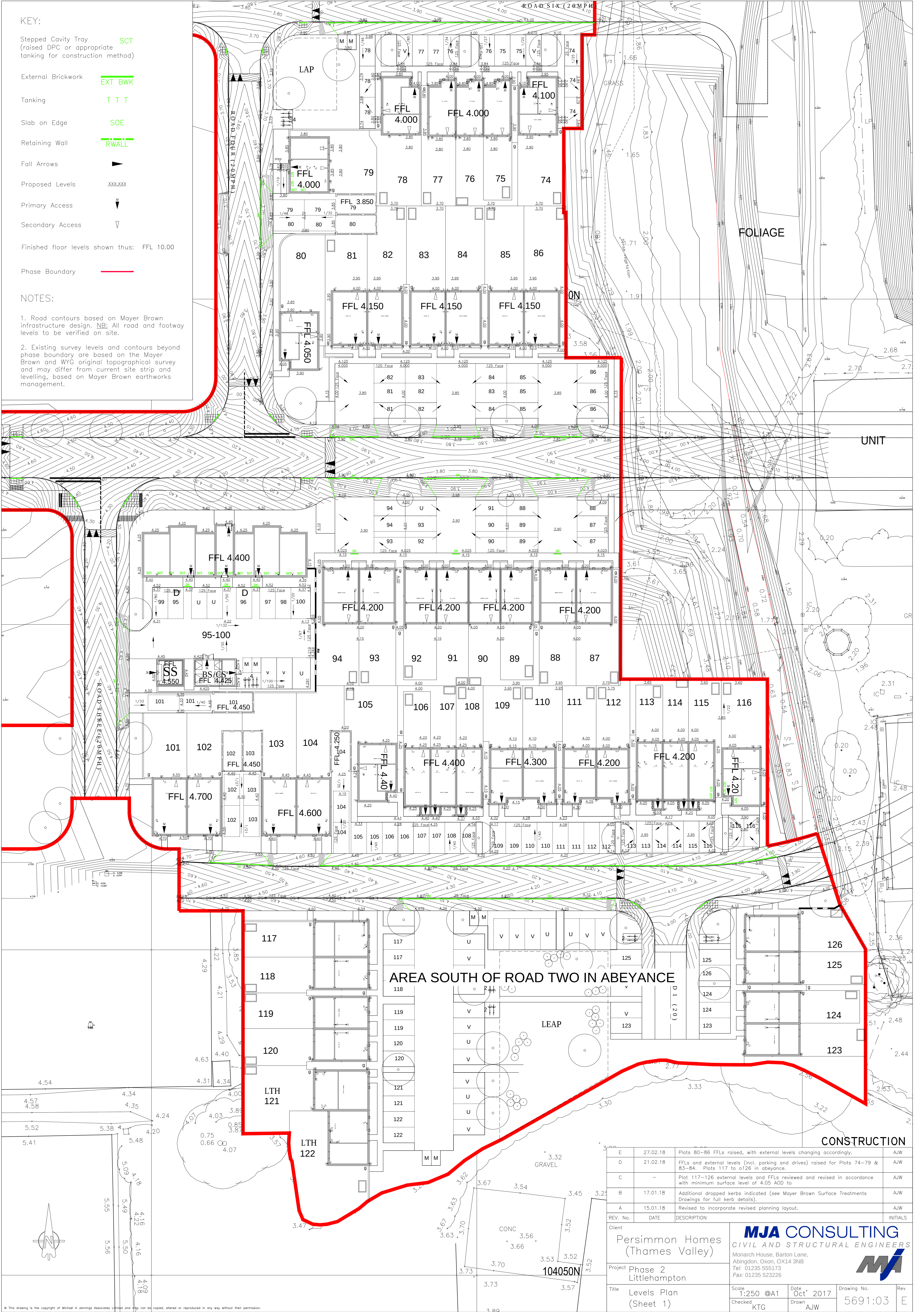
Phase Boundary

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NOTES:

1. Road contours based on Mayer Brown infrastructure design. NB: All road and footway levels to be verified on site.

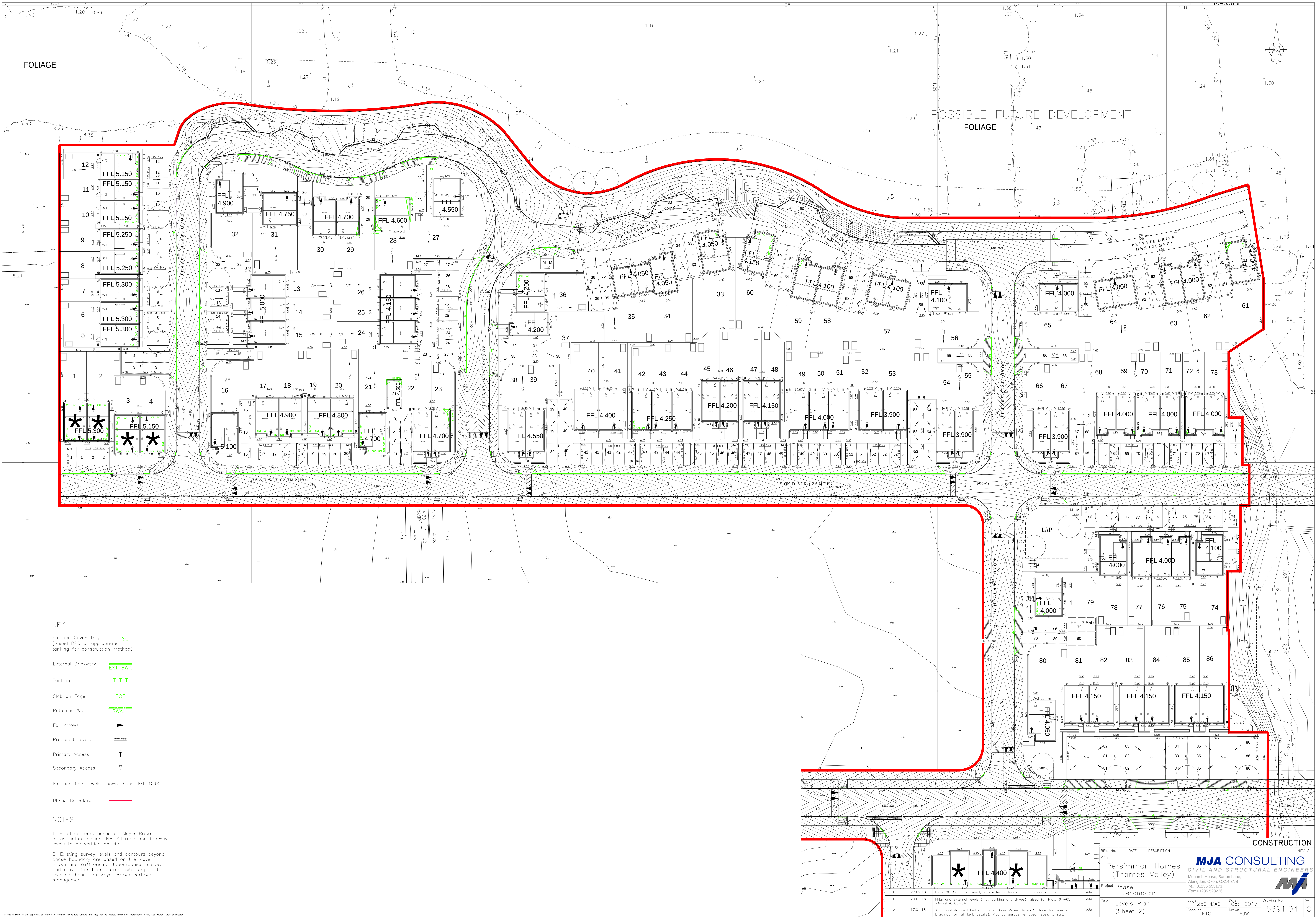
2. Existing survey levels and contours beyond phase boundary are based on the Mayer Brown and WYG original topographical survey and may differ from current site strip and levelling, based on Mayer Brown earthworks management.



AREA SOUTH OF ROAD TWO IN ABEYANCE

CONSTRUCTION

E	27.02.18	Plots 80-86 FFLs raised, with external levels changing accordingly.	AJW
D	21.02.18	FFLs and external levels (incl. parking and drives) raised for Plots 74-79 & 83-84. Plots 117 to 0126 in abeyance.	AJW
C	-	Plot 117-126 external levels and FFLs reviewed and revised in accordance with minimum surface level of 4.05 AOD to	AJW
B	17.01.18	Additional dropped kerbs indicated (see Mayer Brown Surface Treatments Drawings for full kerb details).	AJW
A	15.01.18	Revised to incorporate revised planning layout.	AJW
REV. No.	DATE	DESCRIPTION	INITIALS
Client			
Persimmon Homes (Thames Valley)		MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226	
Project		Phase 2 Littlehampton	
Title		Levels Plan (Sheet 1)	
Scale	1:250 @A1	Date	Oct 2017
Checked	KTG	Drawn	AJW
Drawing No.			5691:03
Rev			E



KEY:

- Stepped Cavity Tray (raised DPC or appropriate tanking for construction method) SCT
- External Brickwork EXT-BWK
- Tanking T T T
- Slab on Edge SOE
- Retaining Wall RWALL
- Fall Arrows ▶
- Proposed Levels XXXX.XXX
- Primary Access ↓
- Secondary Access ∇

Finished floor levels shown thus: FFL 10.00

NOTES:

1. Road contours based on Mayer Brown infrastructure design. All road and footway levels to be verified on site.
2. Existing survey levels and contours beyond phase boundary are based on the Mayer Brown and WYG original topographical survey and may differ from current site strip and levelling, based on Mayer Brown earthworks management.

REV. No.	DATE	DESCRIPTION	INITIALS
C	27.02.18	Plots 80-86 FFLs raised, with external levels changing accordingly.	AJW
B	20.02.18	FFLs and external levels (incl. parking and drives) raised for Plots 61-65, 74-79 & 83-84.	AJW
A	17.01.18	Additional dropped kerbs indicated (see Mayer Brown Surface Treatments Drawings for full kerb details). Plot 38 garage removed, levels to suit.	AJW

Client

Persimmon Homes
(Thames Valley)

Project

Phase 2
Littlehampton

Title

Levels Plan
(Sheet 2)

Scale

1:250 @A0

Date

Oct '2017

Drawing No.

5691:04

Rev

C

Checked

KTG

Drawn

AJW

Rev

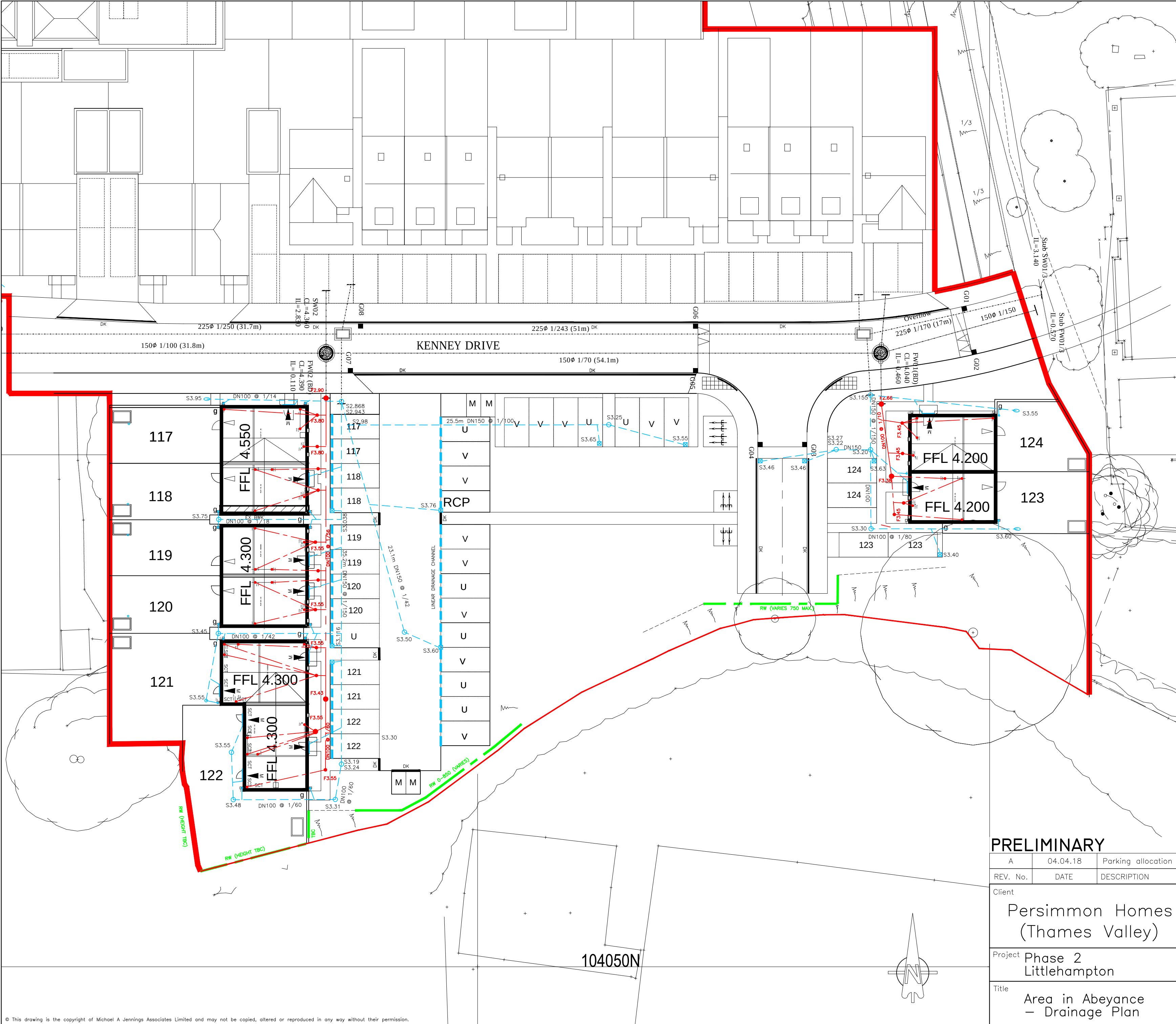
C

CONSTRUCTION

MJA CONSULTING

CIVIL AND STRUCTURAL ENGINEERS

Monarch House, Barton Lane,
Abingdon, Oxon, OX14 3NB
Tel: 01235 555173
Fax: 01235 523226



KEY:

Proposed Infrastructure Drainage:

Detail provided by Mayer Brown (current at time of issue but must be checked against their latest revisions). All Infrastructure road drainage is to be constructed from Mayer Brown design detail, with any discrepancies brought to MJA's attention.

Proposed Private Drainage:

Foul drain

Storm drain

Rodding eye

Yard gully

Linear drainage channel

ACO or similar approved. Connection Invert Level dependent on manufacturers specifications.

All private inspection chambers shall be polypropylene non-access chambers in accordance with The Building Regulations, Part H.

Chamber sizes:

Depth to invert <0.6m DN300

Depth to invert >0.6m DN475

Invert levels shown thus:

F10.00

S10.00

Finished floor levels shown thus: **FFL 10.000**

Primary Access

Secondary Access

PRELIMINARY

A	04.04.18	Parking allocation revised for parking adjacent to Plots 117-122.	AJW
REV. No.	DATE	DESCRIPTION	INITIALS
Client		Persimmon Homes (Thames Valley)	
Project		Phase 2 Littlehampton	
Title		Area in Abeyance - Drainage Plan	
Scale	1:250 @A2	Date	Mar' 2018
Checked		Drawn	AJW
Drawing No.		5691:05	
Rev		A	

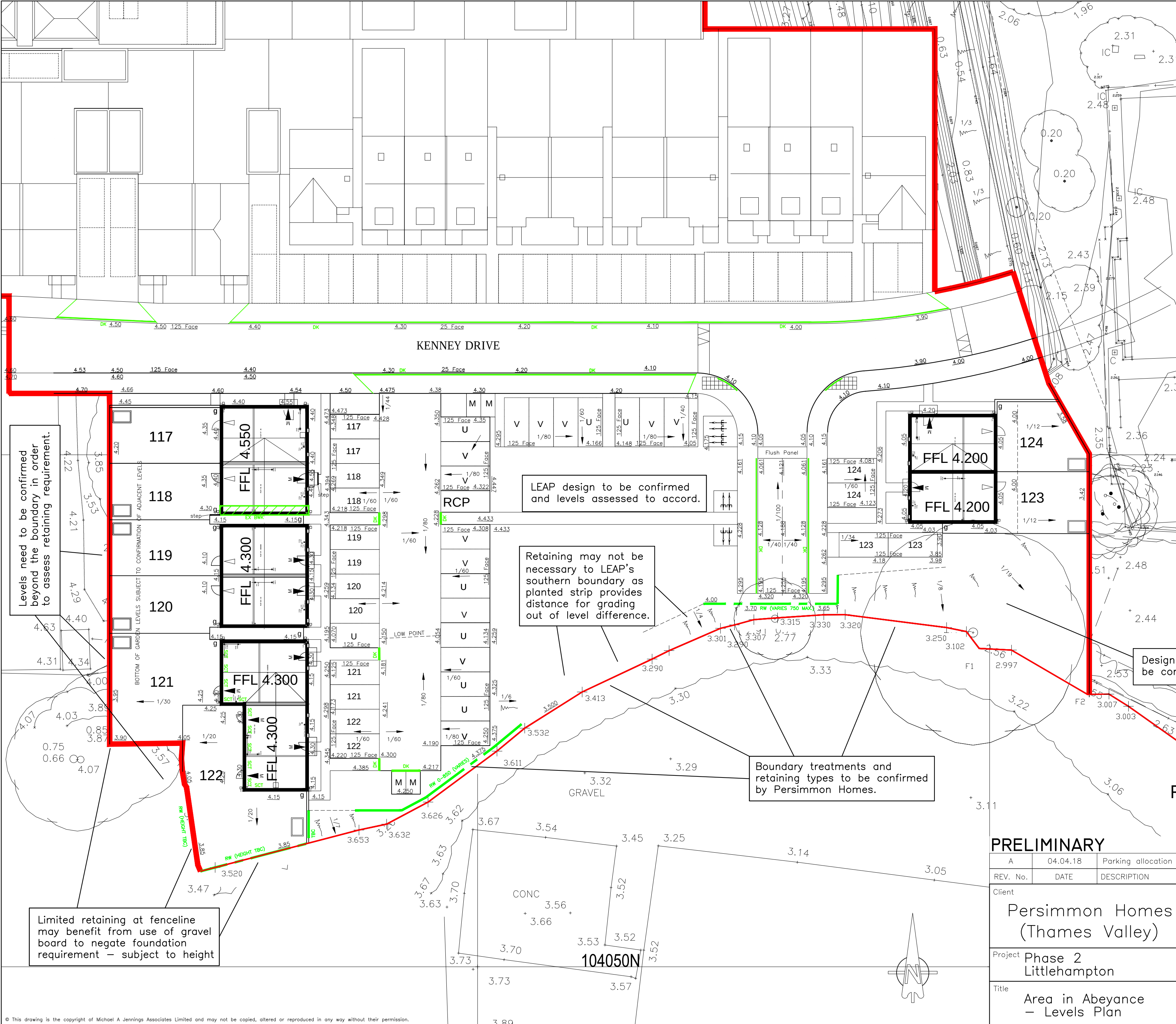
MJA CONSULTING

CIVIL AND STRUCTURAL ENGINEERS

Monarch House, Barton Lane,
Abingdon, Oxon, OX14 3NB
Tel: 01235 555173
Fax: 01235 523226

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ARUN DISTRICT COUNCIL LU228/20DOC



KEY:

Stepped Cavity Tray (raised DPC or appropriate tanking for construction method) SCT

External Brickwork EXT BWK

Tanking T T T

Slab on Edge SOE

Retaining Wall RWALL

Fall Arrows

Proposed Levels xxx.xxx

Primary Access

Secondary Access

Finished floor levels shown thus: FFL 10.00

Phase Boundary

NOTES:

1. Road contours based on Mayer Brown infrastructure design. NB: All road and footway levels to be verified on site.

2. Existing survey levels and contours beyond phase boundary are based on the Mayer Brown and WYG original topographical survey and may differ from current site strip and levelling, based on Mayer Brown earthworks management.

Levels need to be confirmed beyond the boundary in order to assess retaining requirement.

LEAP design to be confirmed and levels assessed to accord.

Retaining may not be necessary to LEAP's southern boundary as planted strip provides distance for grading out of level difference.

Boundary treatments and retaining types to be confirmed by Persimmon Homes.

Design / use to be confirmed.

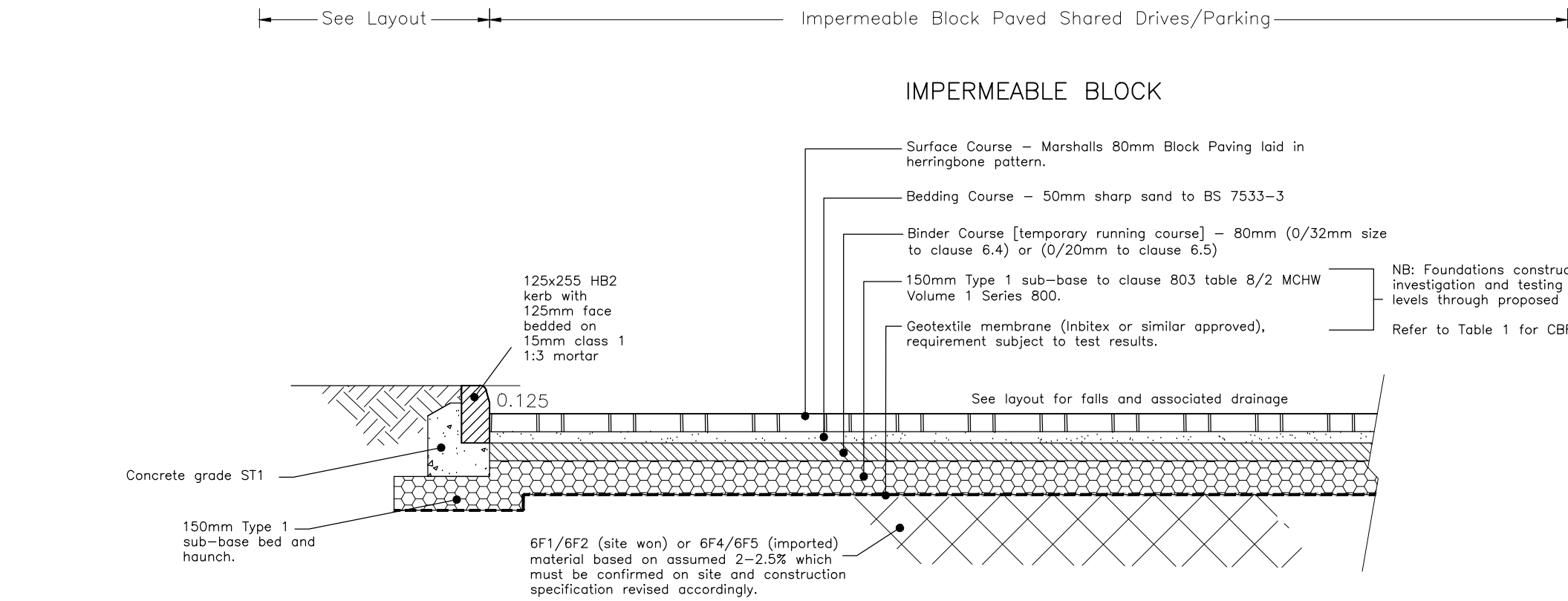
Limited retaining at fenceline may benefit from use of gravel board to negate foundation requirement – subject to height

PRELIMINARY

A	04.04.18	Parking allocation revised for parking adjacent to Plots 117–122.	AJW
REV. No.	DATE	DESCRIPTION	INITIALS
Client		Persimmon Homes (Thames Valley)	
Project		Phase 2 Littlehampton	
Title		Area in Abeyance – Levels Plan	
Scale	Date	Drawing No.	Rev
1:250 @A2	Mar' 2018	5691:06	A
Checked	Drawn		
	AJW		

MJA CONSULTING
CIVIL AND STRUCTURAL ENGINEERS

Monarch House, Barton Lane,
Abingdon, Oxon, OX14 3NB
Tel: 01235 555173
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TYPICAL SECTION THROUGH BLOCK PAVED SHARED DRIVE HAVING INFREQUENT USE BY COMMERCIAL VEHICLES.
(e.g. to front of Plots 81–86 & LYTTON COPSE)
Scale 1:25

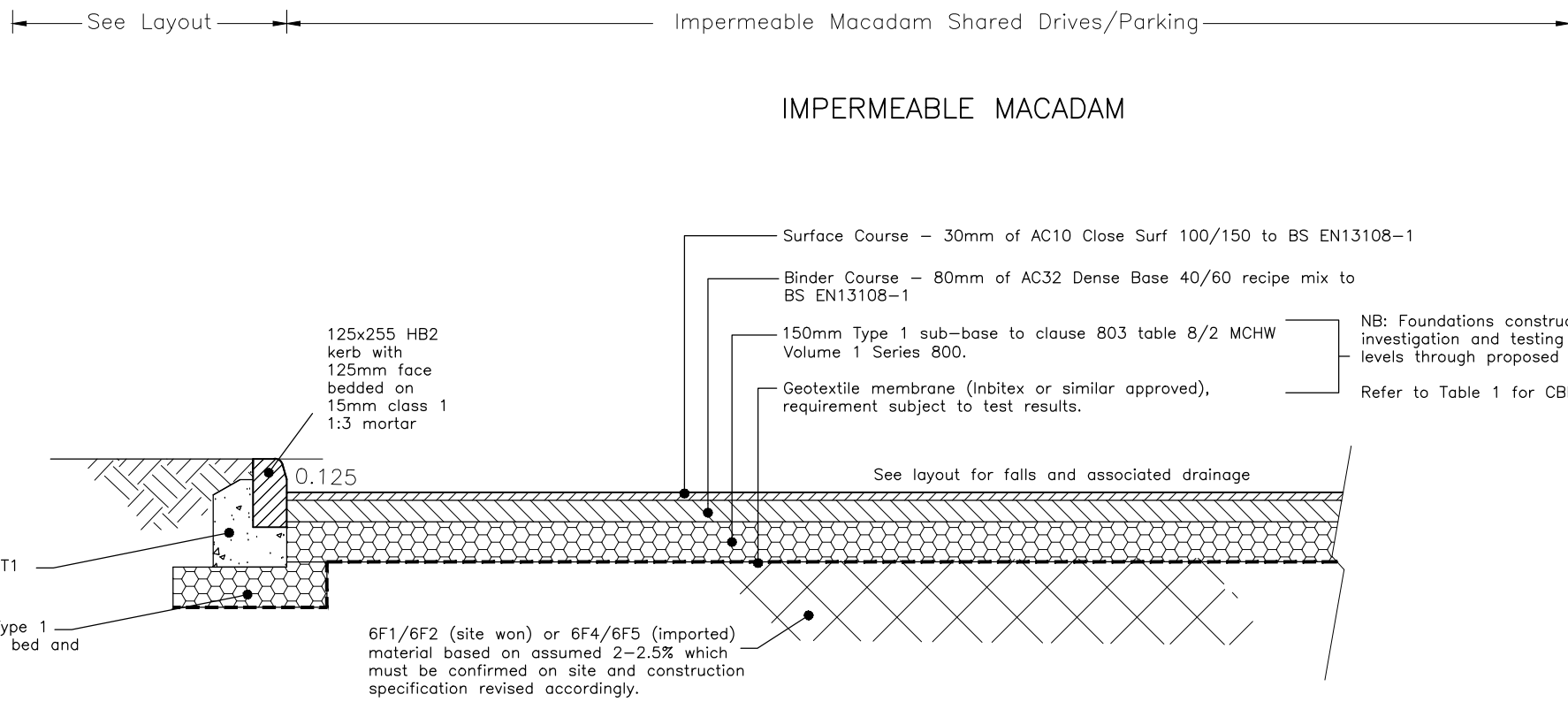
NB: Foundations construction based on ground investigation and testing of strata following raising of levels through proposed site-wide earthworks.

CAPPING & SUB-BASE

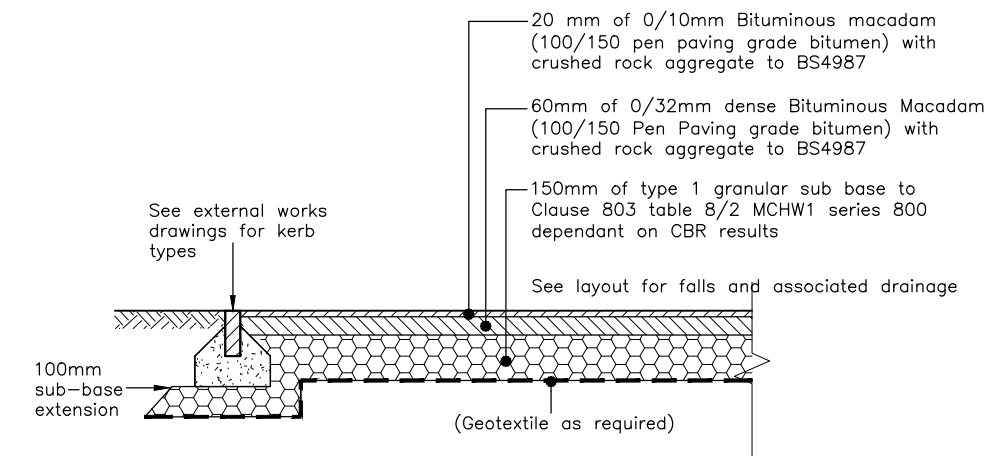
TABLE 1 Capping layer(mm)	
CBR >5%	150mm thick DTP Type 1 Granular Sub base
CBR 2%–5%	350mm thick DTP Class 6F1 or 6F2
CBR <2%	600mm thick DTP Class 6F1 or 6F2
Capping layer in accordance with DTP Spec. Part 2 Table 6/2 class 6F1 or 6F2.	

NHBC TABLE – SUB-BASE ONLY / SUB-BASE + GEOTEXTILE

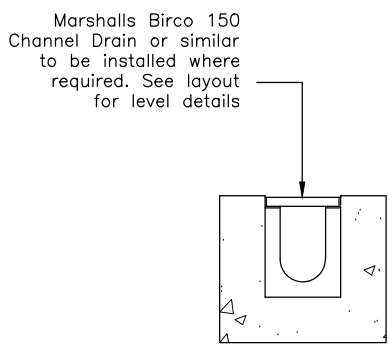
Minimum sub-base thickness for paved areas		
California Bearing Ratio (CBR) Values	Minimum thickness of Sub-Base (mm) (Consolidated in accordance with MCHW Volume 1 Clause 108, Table 8/1)	
	Without Geotextile Underneath	With Geotextile Underneath
Less Than 2%	N/A	300
2% to 3%	325	225
3% to 5%	250	150
5% to 7%	150	
7% to 20%	100	



TYPICAL SECTION THROUGH MACADAM SHARED DRIVE HAVING INFREQUENT USE BY COMMERCIAL VEHICLES.
(e.g. Units 95–100 Courtyard/Access)
Scale 1:25



PRIVATE DRIVE – MACADAM CONSTRUCTION
Scale 1:25

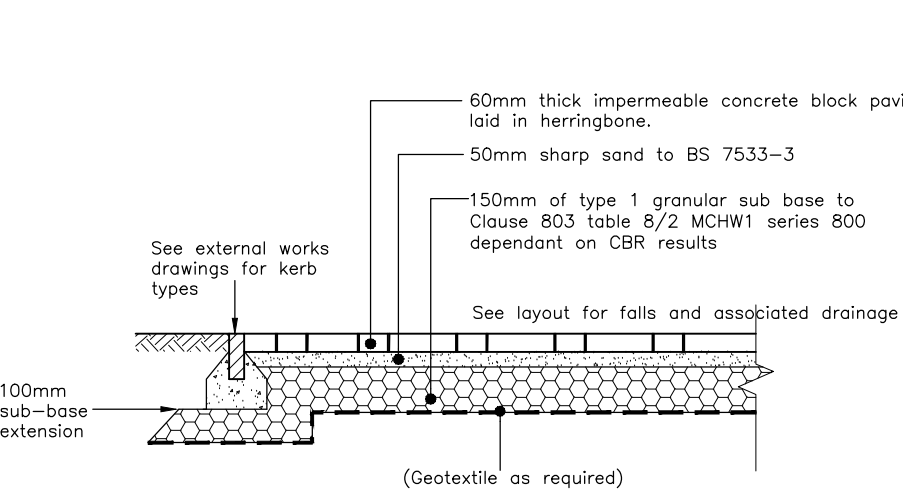


MARSHALLS BIRCO 150 CHANNEL DRAIN
NTS

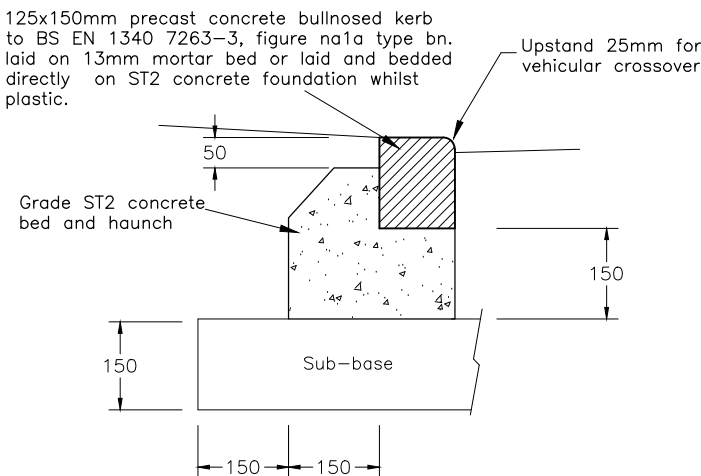
NB: Marshall's Birco 150 (or similar) specified as the shallow gradient of a number of parking areas (see drainage and levels plans) necessitates the introduction of linear channel drains with internal falls (min. 1 in 100) to point of discharge. Birco internal fall units available in 1000mm lengths to a maximum of 20m.

Additional construction details being sought from Marshall's (added when available), however, specification and further detail is available online: <https://www.marshall's.co.uk/commercial/assets/documents/product-specifications/wmgs05.pdf>

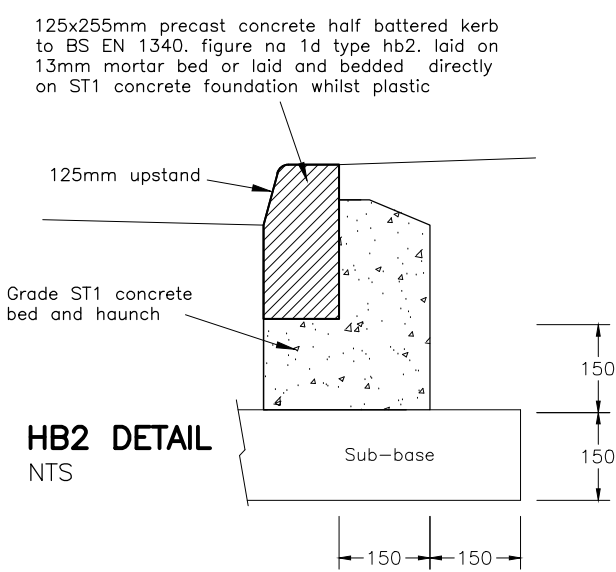
Covers must be C250 classification for private drives and D400 for all shared drive/parking access areas. Style of cover to be confirmed with Client or Landscape Architect.



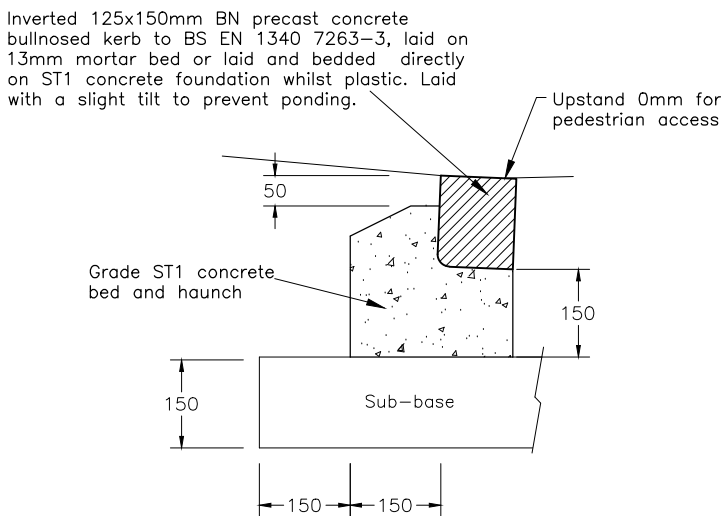
PRIVATE DRIVE – IMPERMEABLE BLOCK PAVED CONSTRUCTION
Scale 1:25



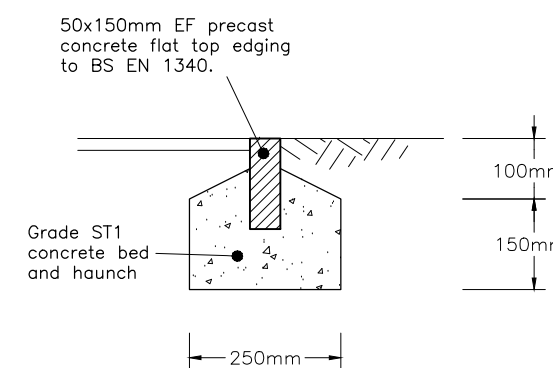
DROPPED KERB (VEHICULAR ACCESS)
NTS



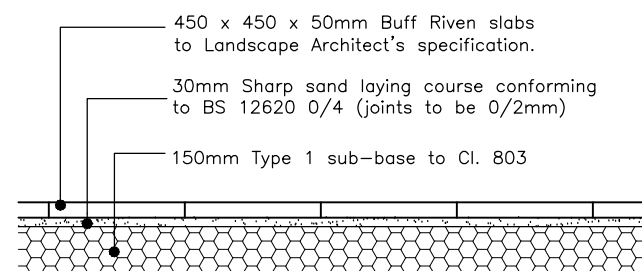
HB2 DETAIL
NTS



DROPPED KERB (PEDESTRIAN ACCESS)
NTS



EF DETAIL
NTS



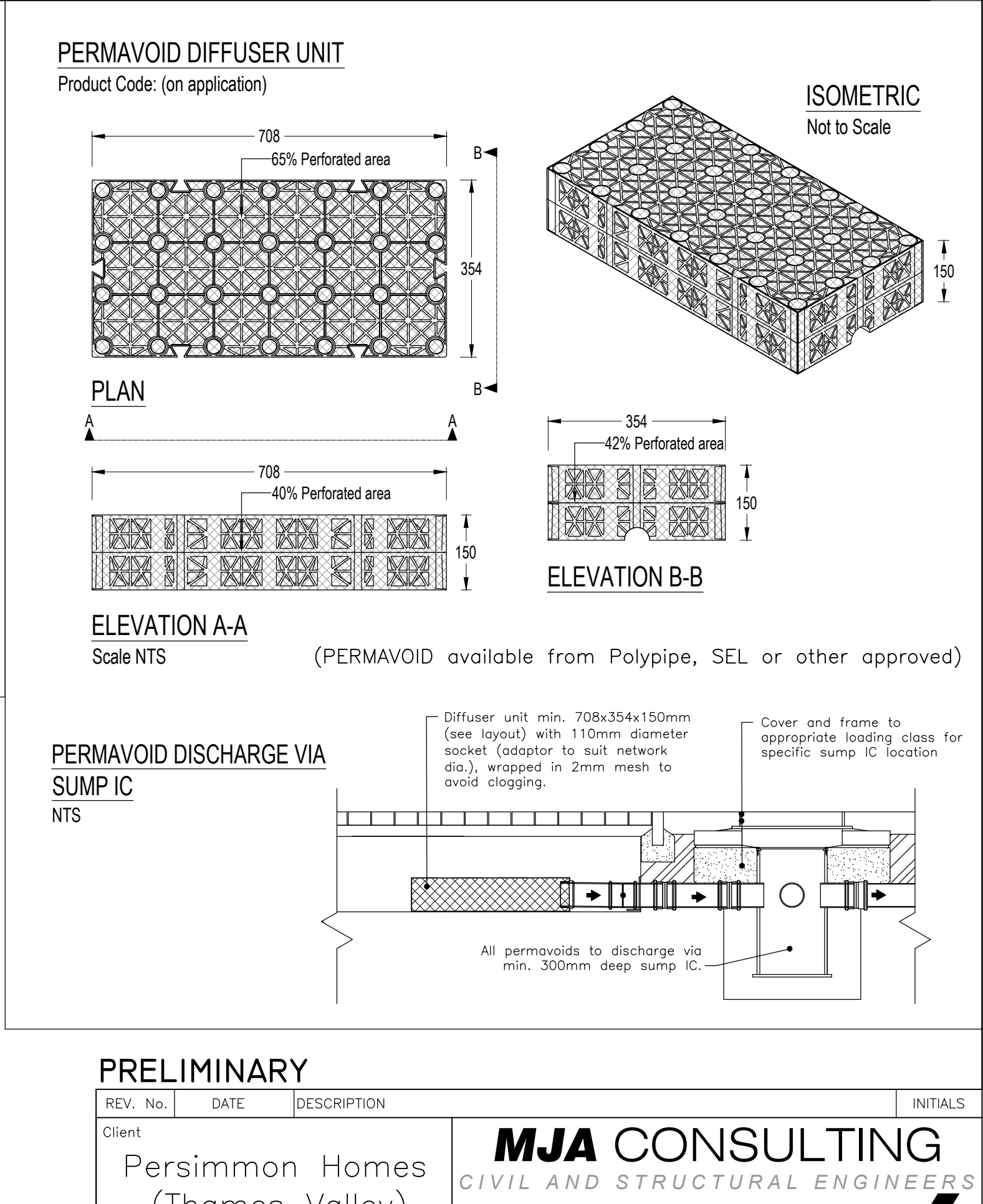
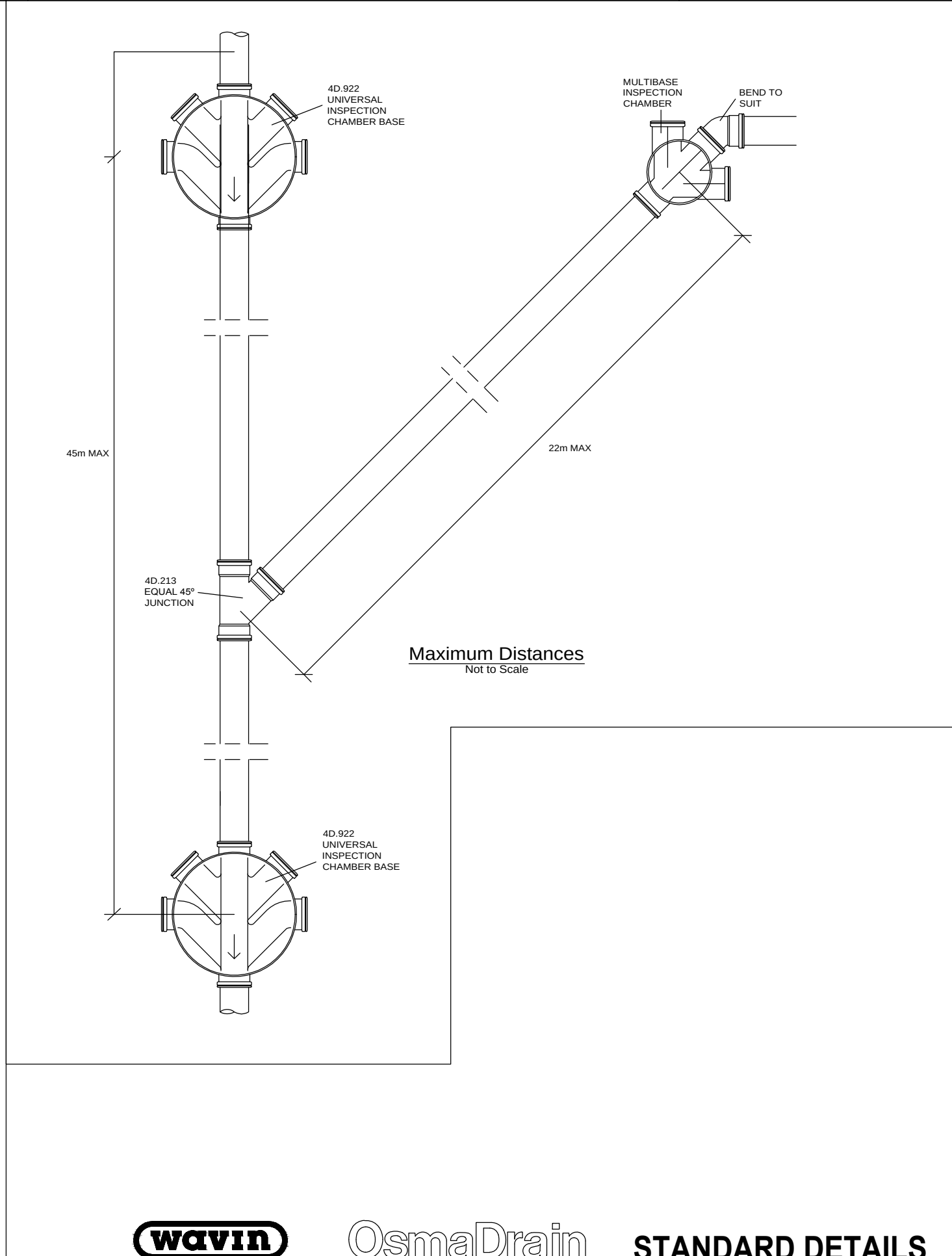
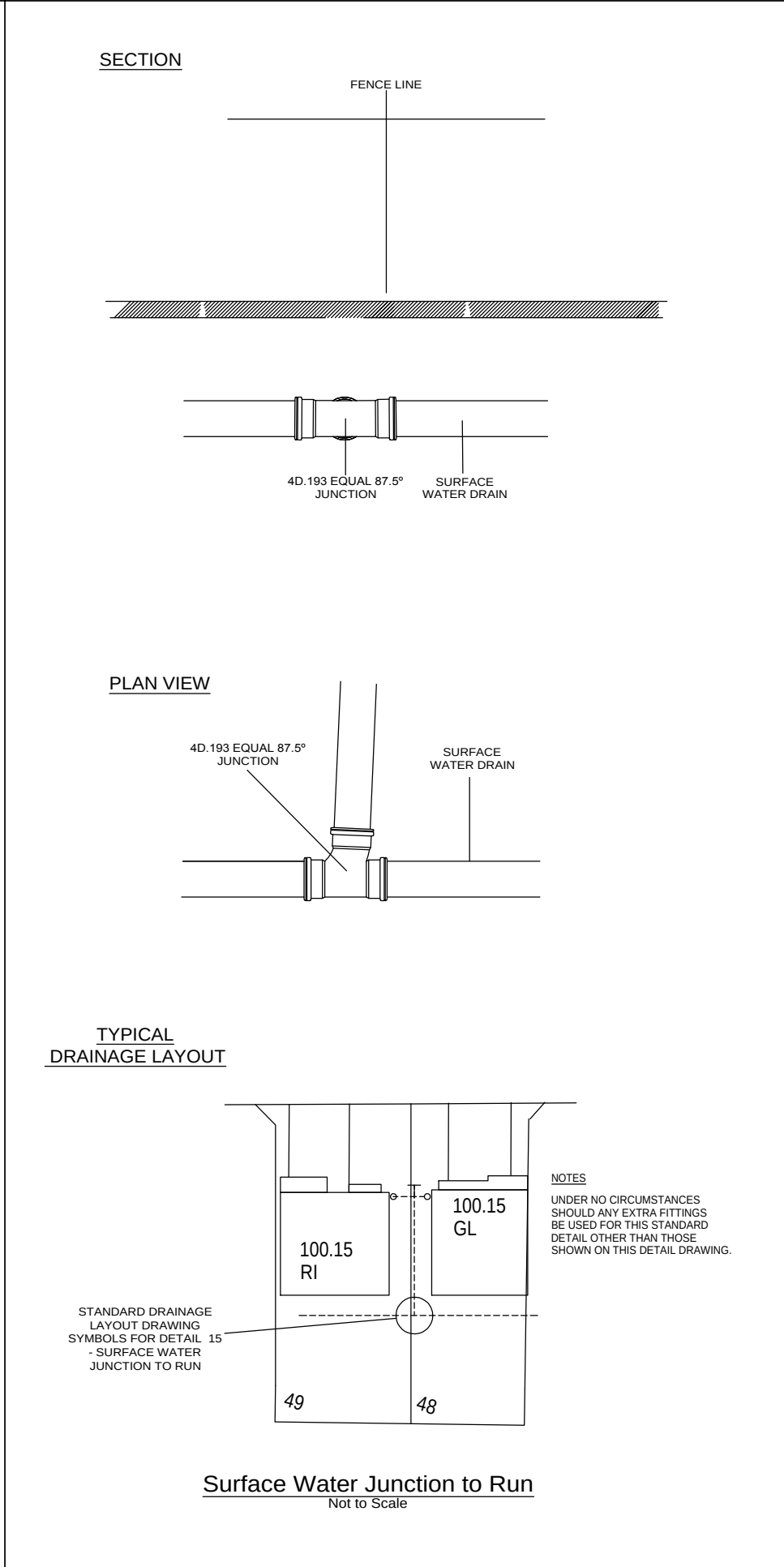
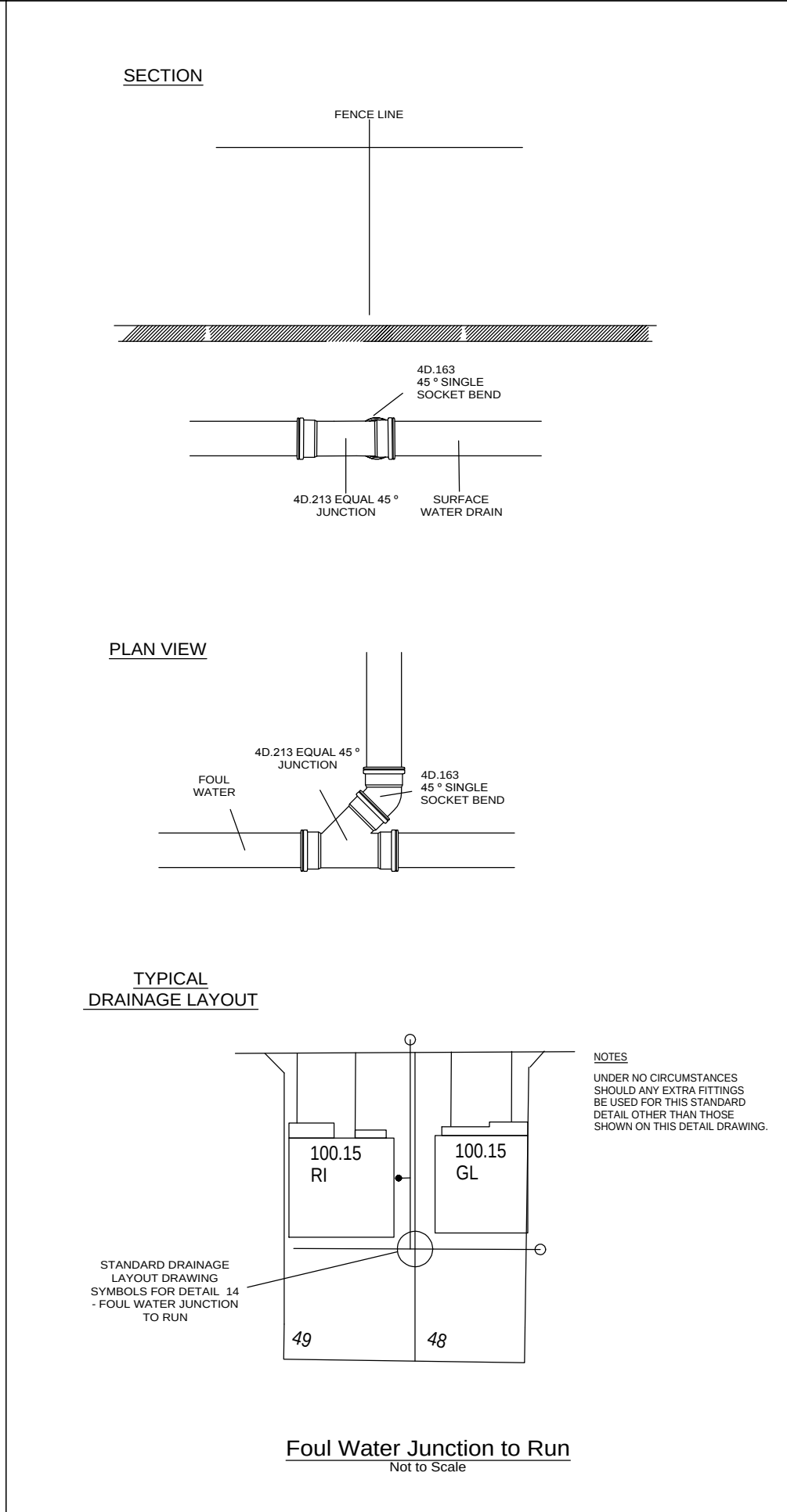
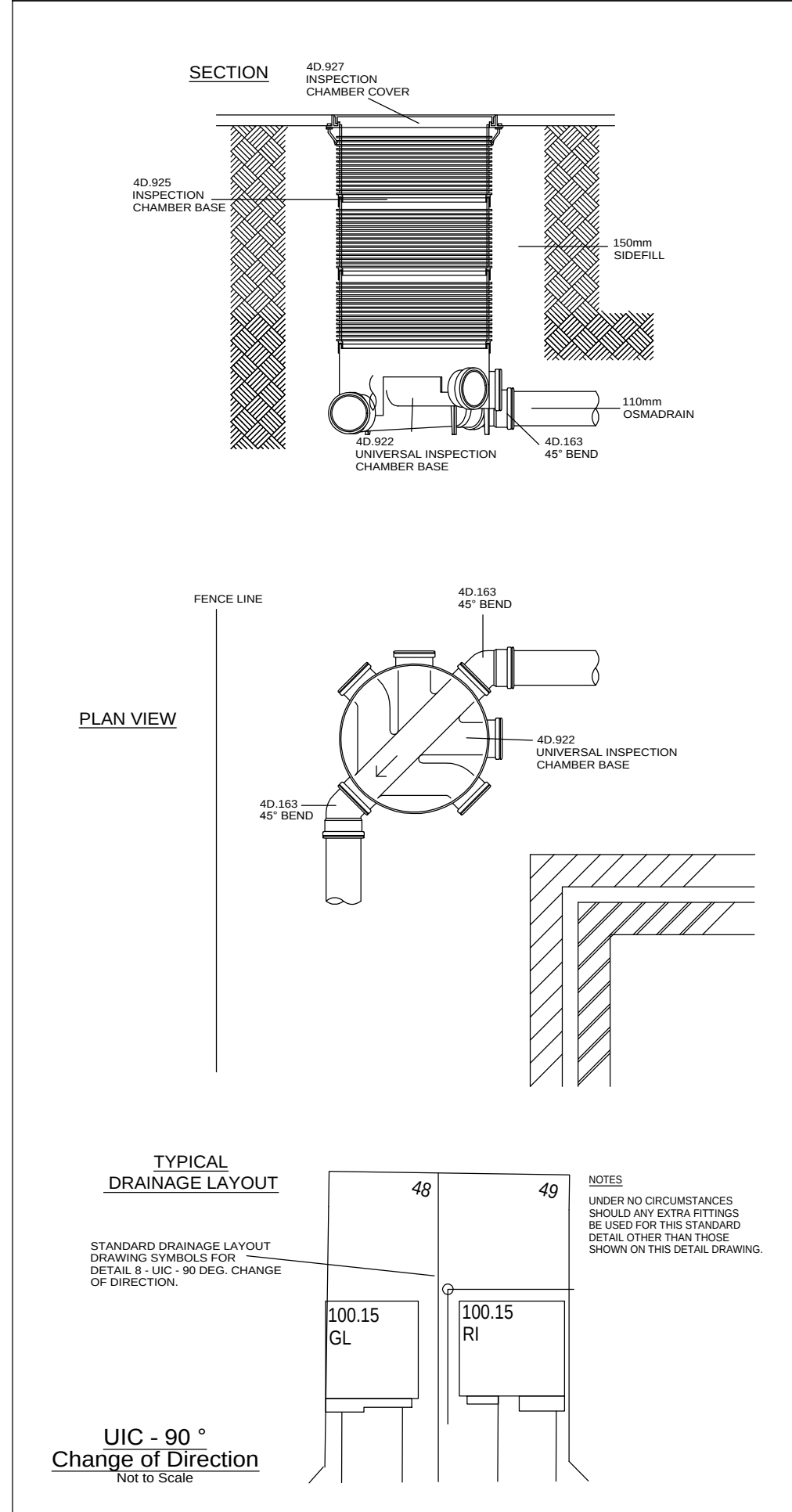
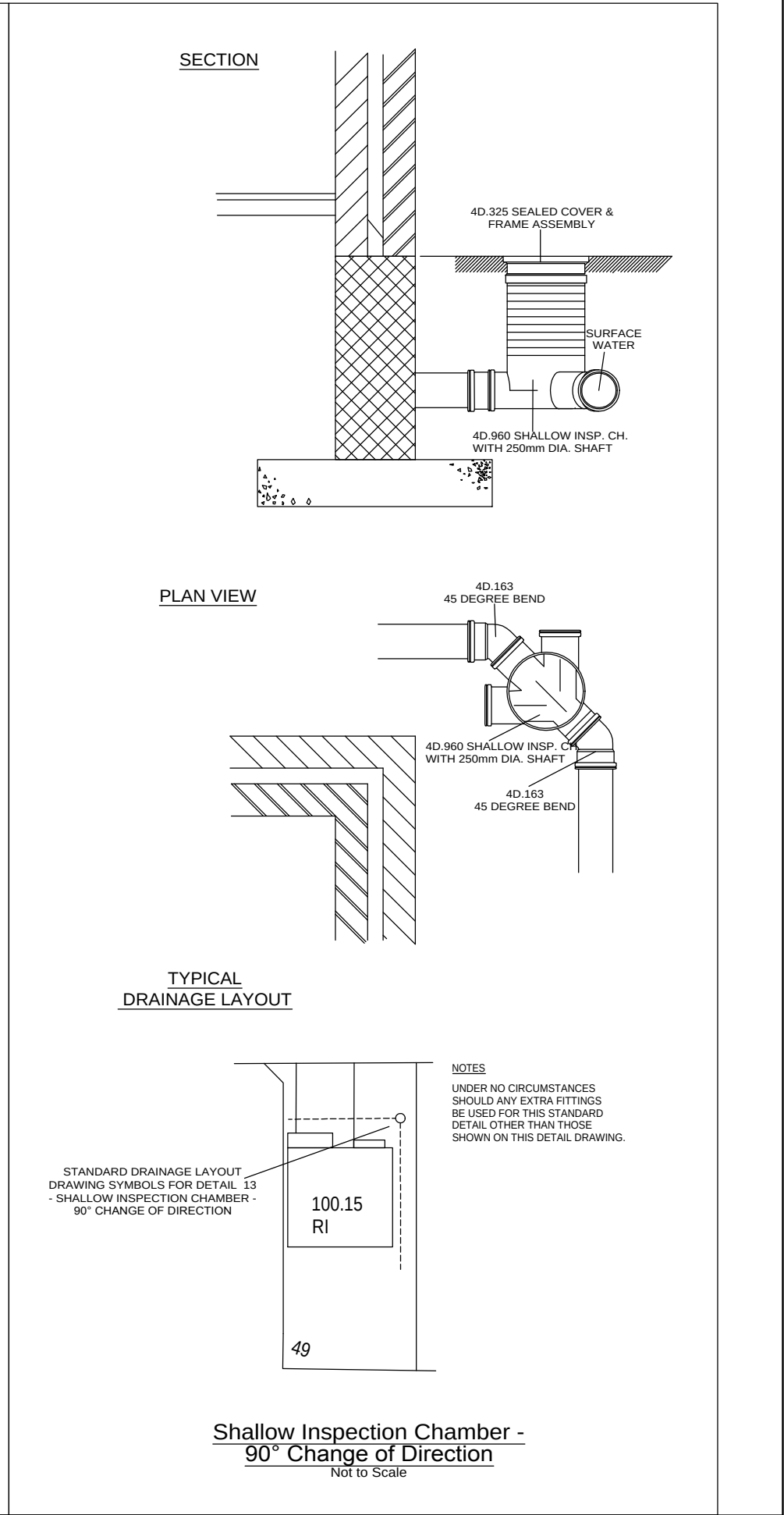
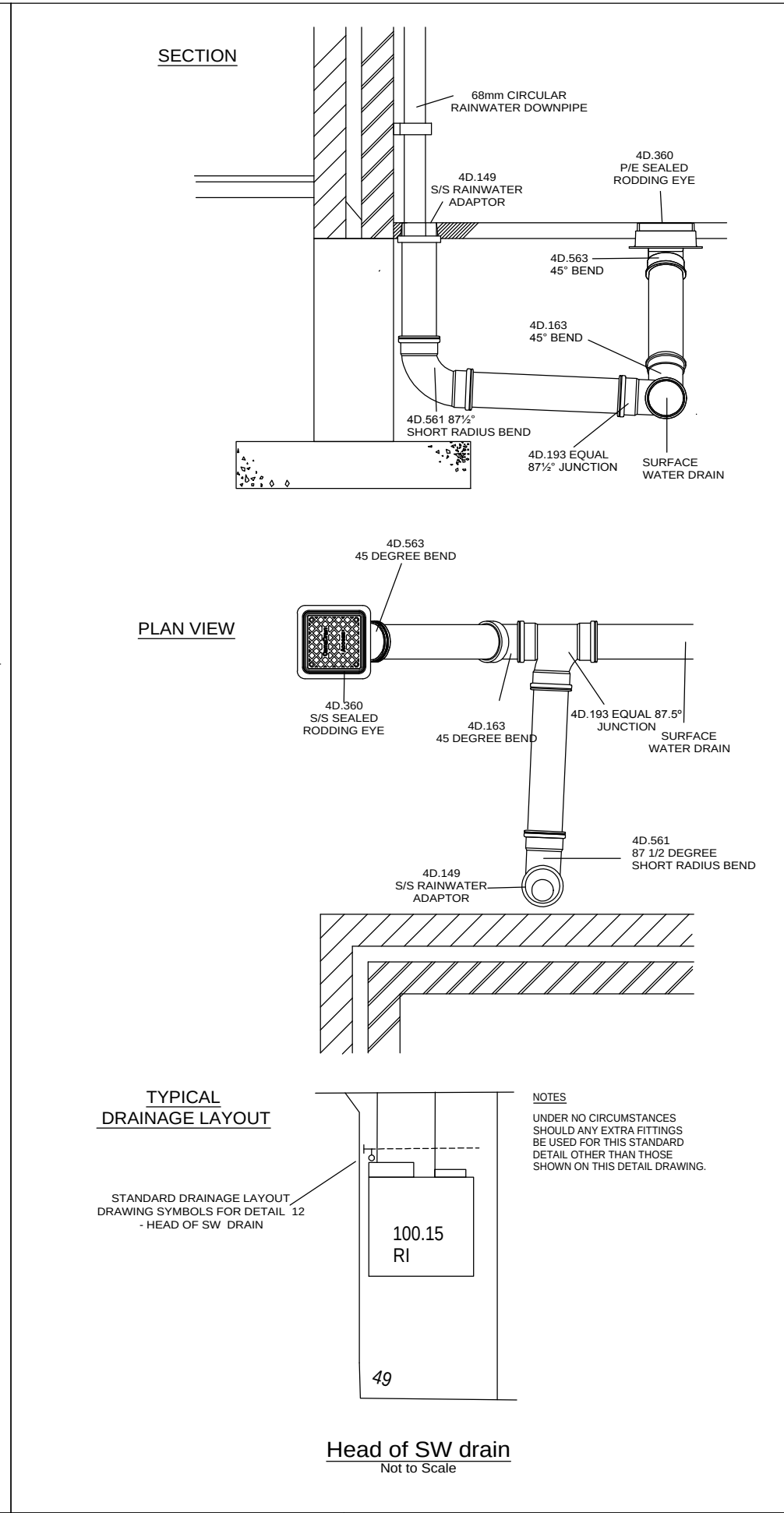
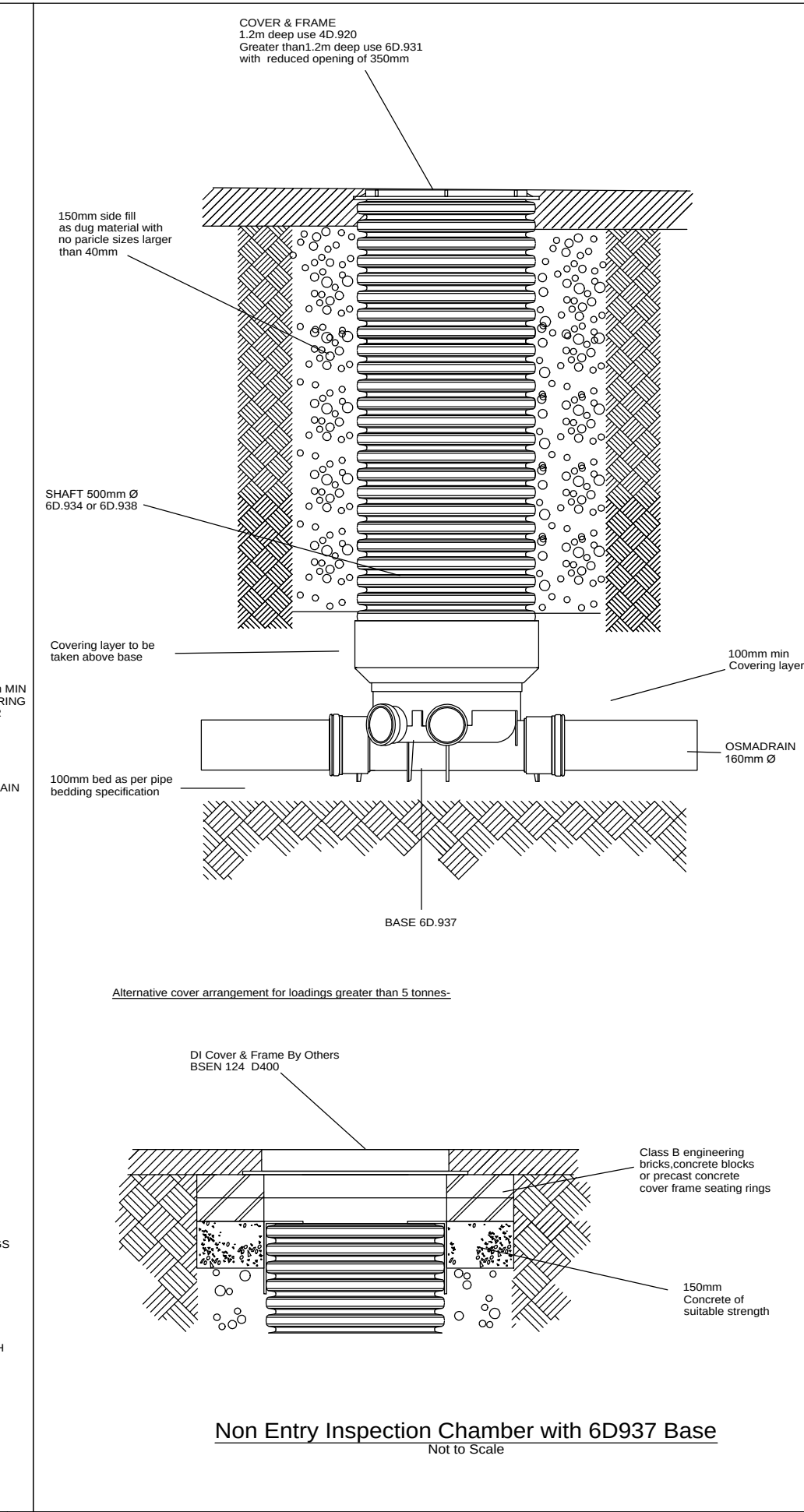
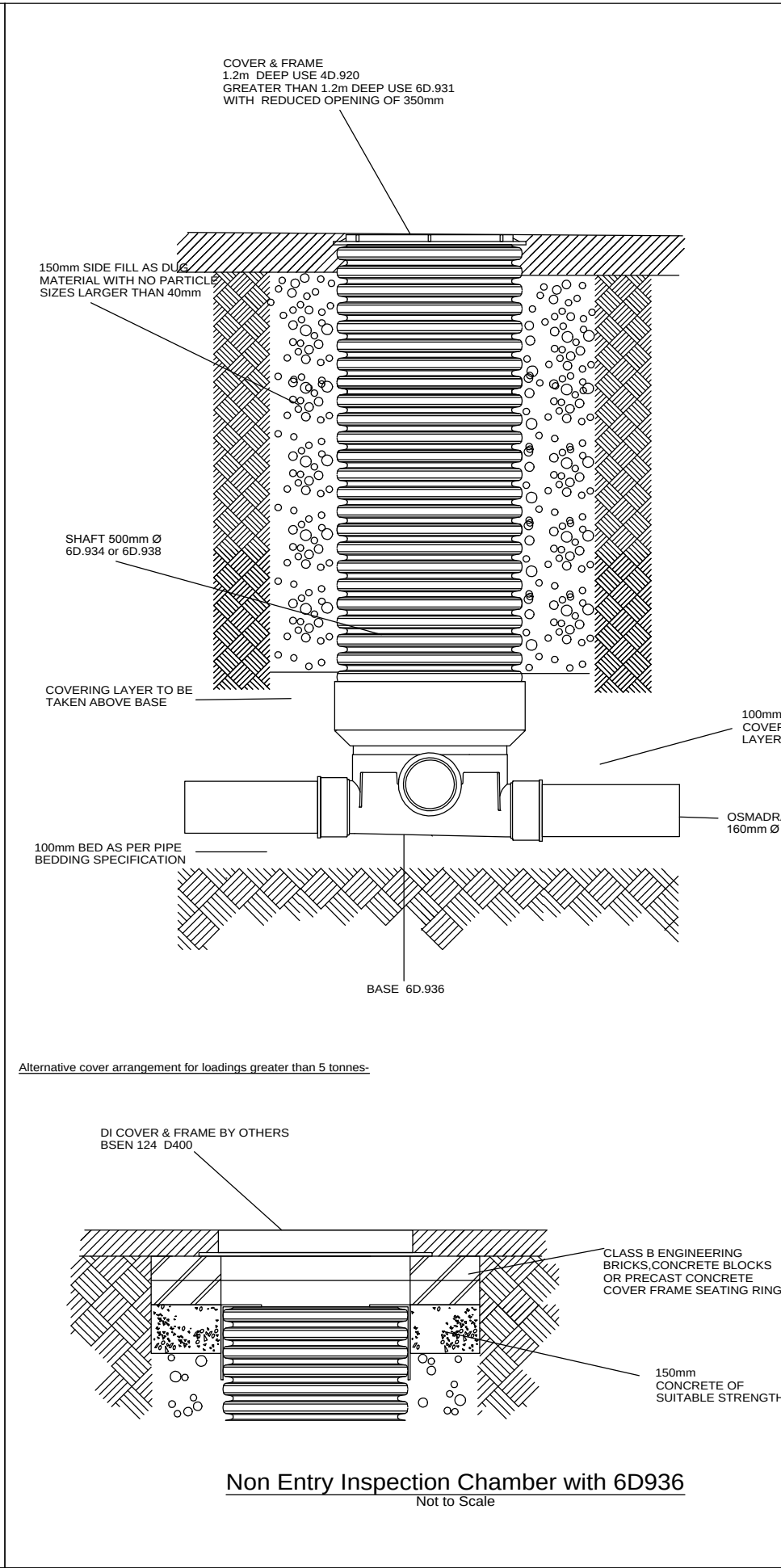
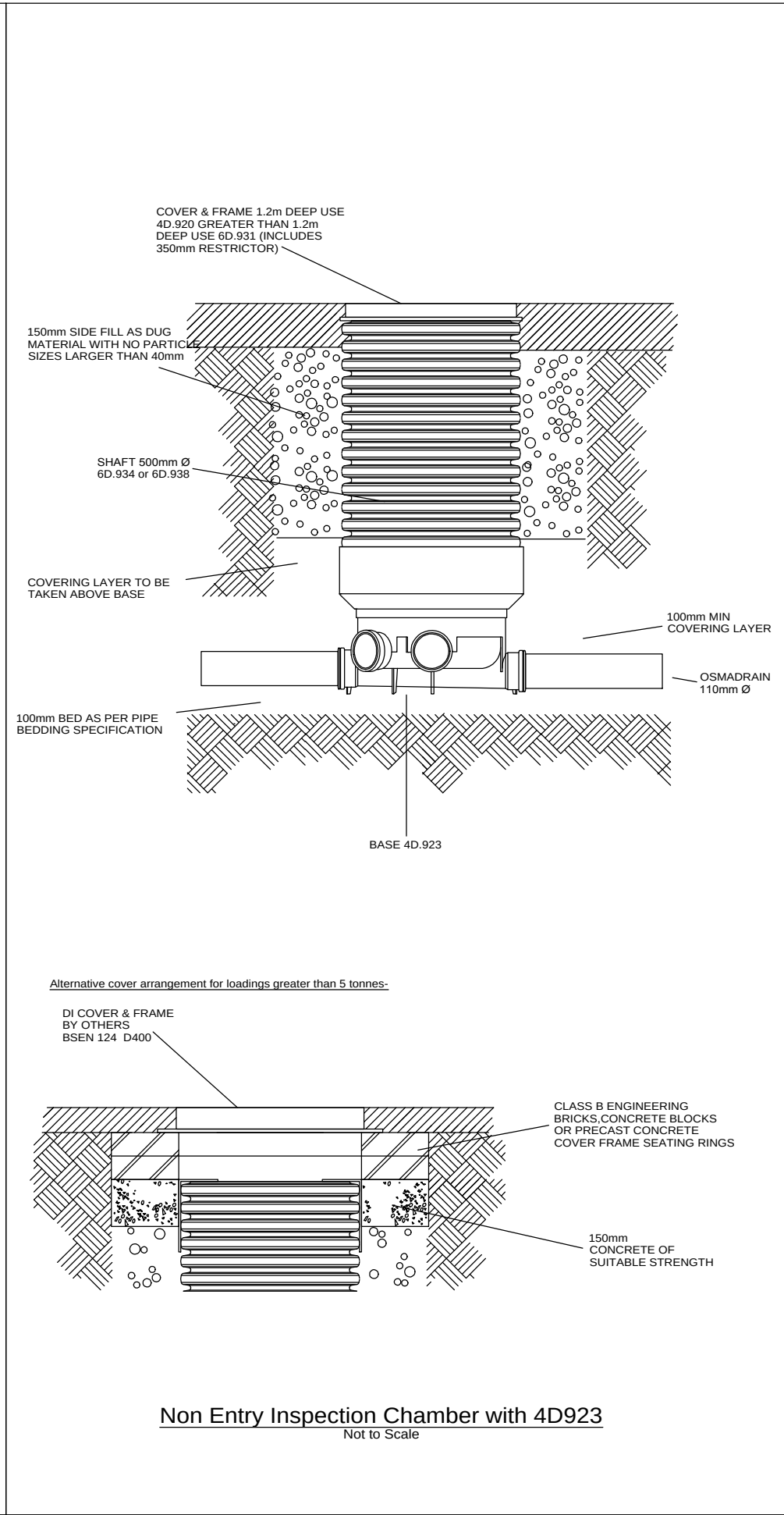
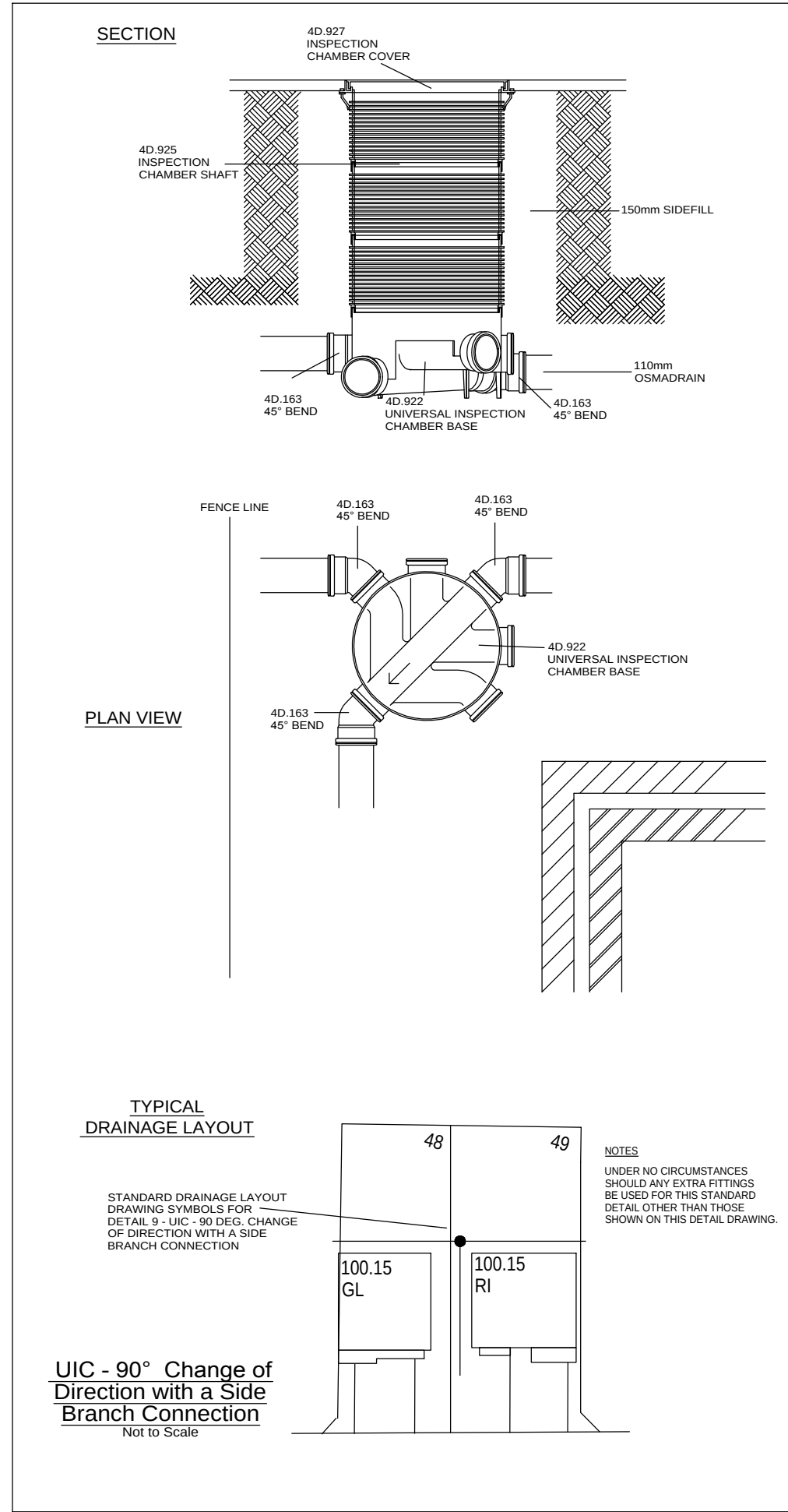
PATIO / FOOTWAY SLAB CONSTRUCTION
Scale 1:25

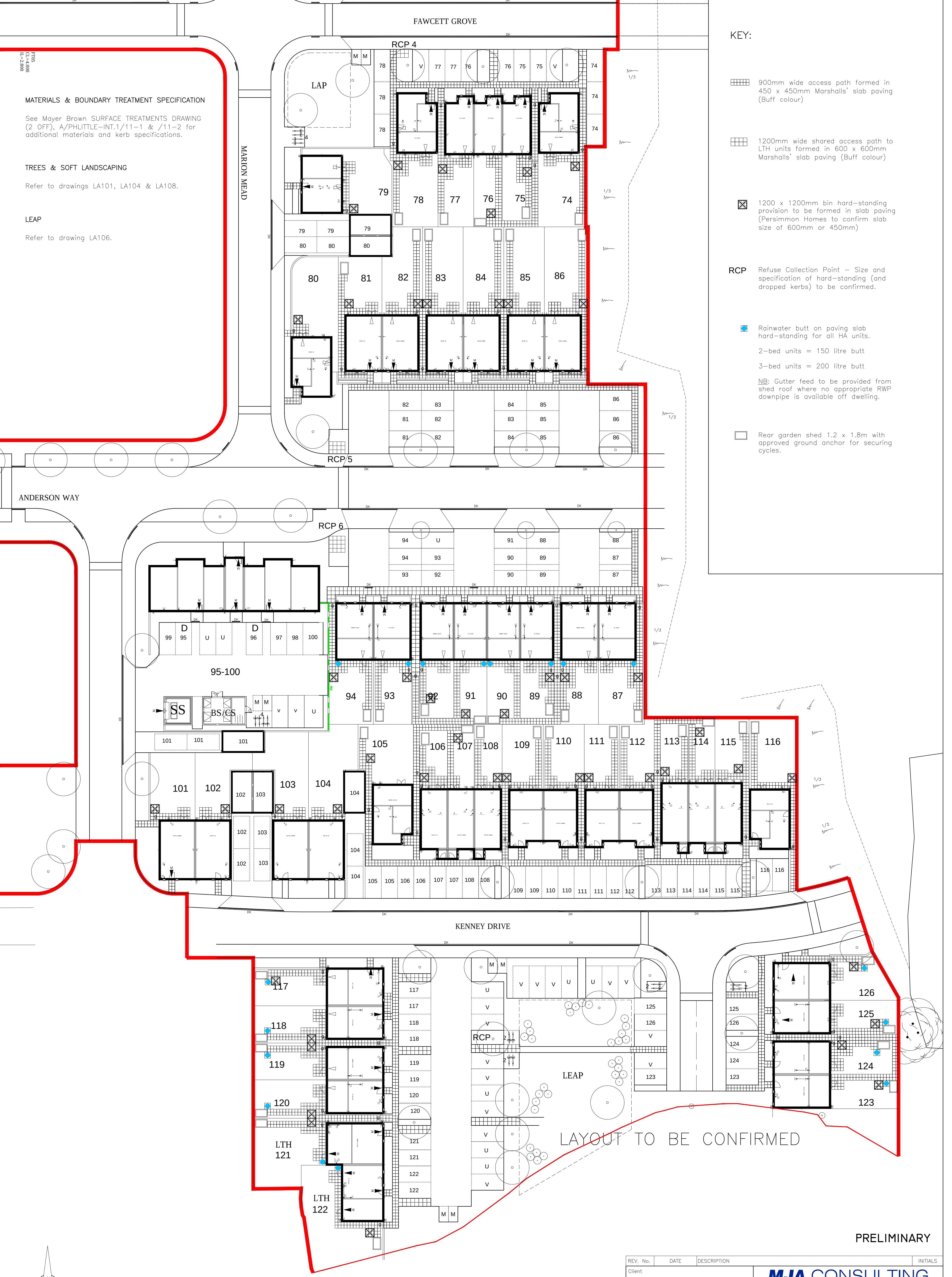
Construction Notes:

- Please refer to Mayer Brown construction details for all infrastructure extents, including main carriageways and footways. These details relate to residential areas from back edge of infrastructure works.
- All private works designed to NHBC standards but to be approved by Premier Guarantee.
- Do not scale from this drawing.
- This drawing is based on the latest Architectural planning layout (surface materials and colours identified) and shall be read in conjunction with all other relevant planning and construction drawings.
- Block paved area edging course /pattern to be confirmed by Persimmon Homes / Landscape Architect.
- Any discrepancies with any of the drawings shall be reported to MJA Consulting Engineer.
- The level and location of all existing services shall be verified on site by the Contractor before commencing any construction work. Proposed services routing to be provided by Persimmon Homes.
- Contractor must comply with all current legislation relating to CDM, Health and Safety and COSHH.
- All material in excess of 20kg (i.e. kerbs, manhole units cover etc.) shall be mechanically lifted and laid where possible at all times.
- All foul and storm water drains which are not to be adopted as public sewers under a section 104 agreement shall be constructed using uPVC pipes or similar approved, bedded and backfilled in accordance with the manufacturers instructions and to the Building Regulations Part H, BS EN 752 & B.R.E. SD1.

PRELIMINARY

A	08.03.18	Private and shared drive construction changed to traditional impermeable construction in accordance with drainage strategy. Birco detail added.	AJW
REV. No.	DATE	DESCRIPTION	INITIALS
Client	Persimmon Homes (Thames Valley)		MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226
Project	Phase 2 Littlehampton		
Title	Construction Details (Sheet 1) – Hard Standing Areas	Scale As shown @A1 Checked KTG	Date Nov ' 2017 Drawn AJW
Drawing No.	5691:20	Rev	A



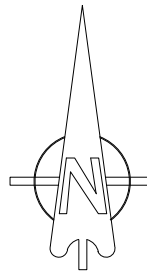


KEY:

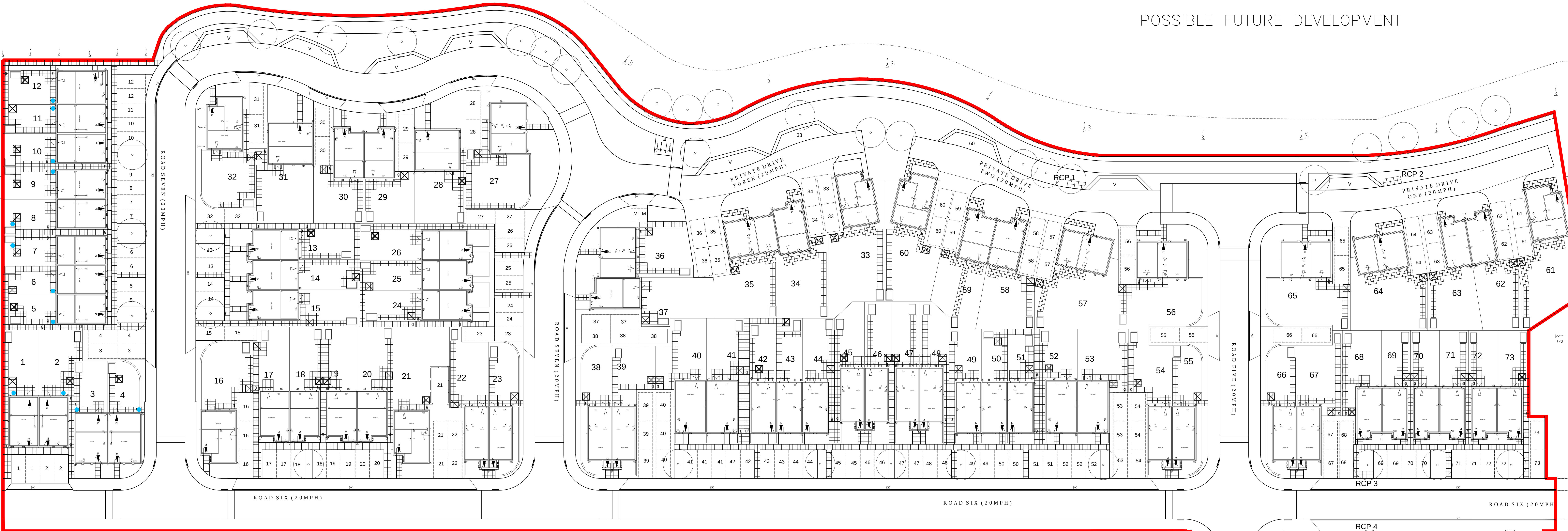
- 900mm wide access path formed in 450 x 450mm Marshalls' slab paving (Buff colour)
- 1200mm wide shared access path to LTH units formed in 600 x 600mm Marshalls' slab paving (Buff colour)
- 1200 x 1200mm bin hard-standing provision to be formed in slab paving (Persimmon Homes to confirm slab size of 600mm or 450mm)
- RCP** Refuse Collection Point – Size and specification of hard-standing (and dropped kerbs) to be confirmed.
- Rainwater butt on paving slab hard-standing for all HA units.
2-bed units = 150 litre butt
3-bed units = 200 litre butt
NB: Gutter feed to be provided from shed roof where no appropriate RWP downpipe is available off dwelling.
- Rear garden shed 1.2 x 1.8m with approved ground anchor for securing cycles.

PRELIMINARY

REV. No.	DATE	DESCRIPTION	INITIALS
Client			
Persimmon Homes (Thames Valley)		MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226	
Project		Phase 2 Littlehampton	
Title		External Works (Sheet 1)	
Scale		1:250 @A1	Date Feb' 2018
Checked		KTG	Drawn AJW
			Drawing No. 5691:40
			Rev -



POSSIBLE FUTURE DEVELOPMENT



KEY:

900mm wide access path formed in 450 x 450mm Marshalls' slab paving (Buff colour)

1200mm wide shared access path to LTH units formed in 600 x 600mm Marshalls' slab paving (Buff colour)

1200 x 1200mm bin hard-standing provision to be formed in slab paving (Persimmon Homes to confirm slab size of 600mm or 450mm)

RCP Refuse Collection Point - Size and specification of hard-standing (and dropped kerbs) to be confirmed.

Rainwater butt on paving slab hard-standing for all HA units.
2-bed units = 150 litre butt
3-bed units = 200 litre butt

NE: Gutter feed to be provided from shed roof where no appropriate RWP downpipe is available off dwelling.

Rear garden shed 1.2 x 1.8m with approved ground anchor for securing cycles.

MATERIALS & BOUNDARY TREATMENT SPECIFICATION

See Mayer Brown SURFACE TREATMENTS DRAWING (2 OFF), A/PHUTLE=INT.1/11-1 & /11-2 for additional materials and kerb specifications.

TREES & SOFT LANDSCAPING

Refer to drawings LA101, LA104 & LA108.

REV. No.

DATE

DESCRIPTION

Client

Persimmon Homes
(Thames Valley)

Project

Phase 2
Littlehampton

Title

External Works
(Sheet 2)

Scale

1:250

Checked

KTG

Date

Feb' 2018

Drawn

AJW

Drawing No.

5691:41

Rev

-

INITIALS

MJA CONSULTING
CIVIL AND STRUCTURAL ENGINEERS
Monarch House, Barton Lane,
Abingdon, Oxon, OX14 3NB
Tel: 01235 555173
Fax: 01235 523226