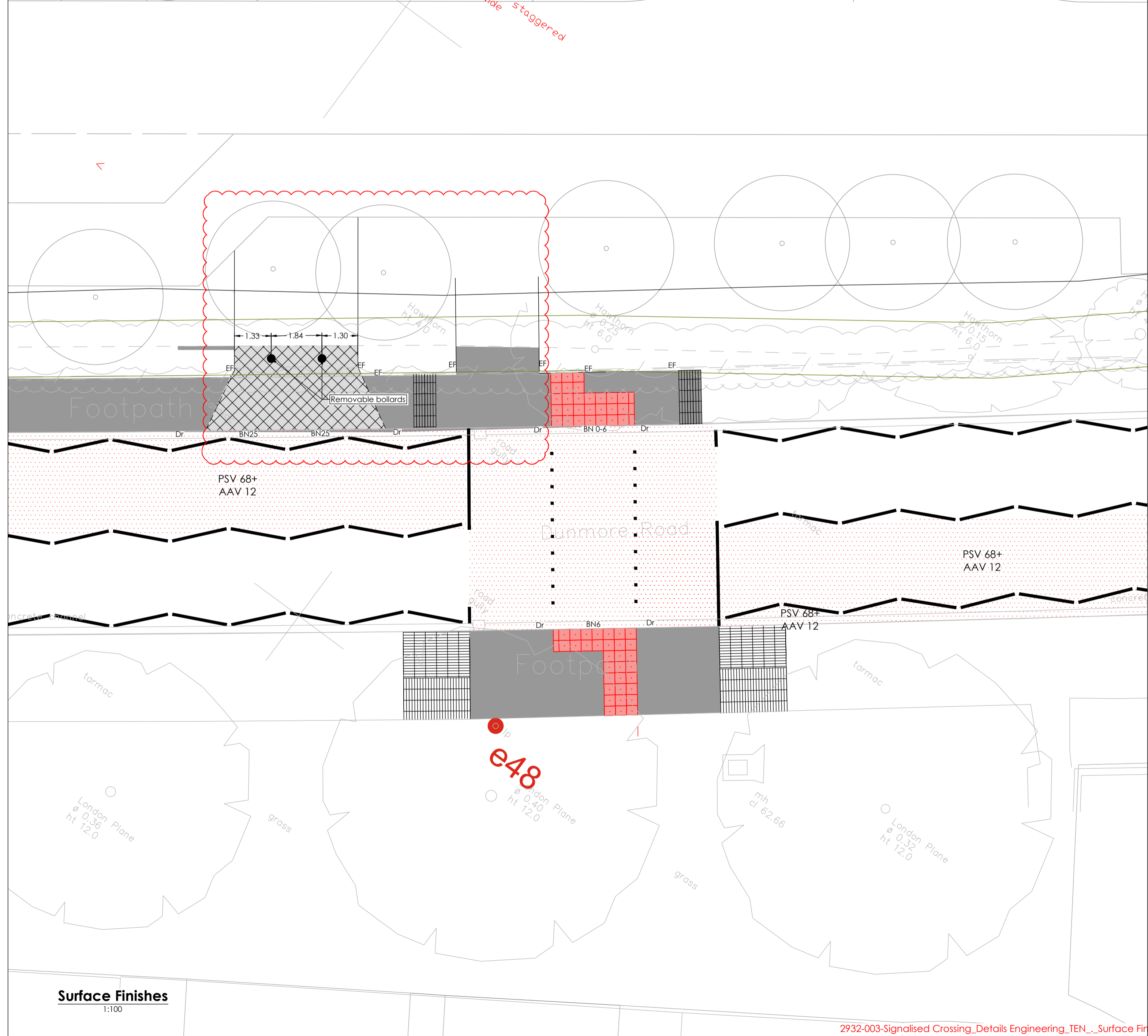
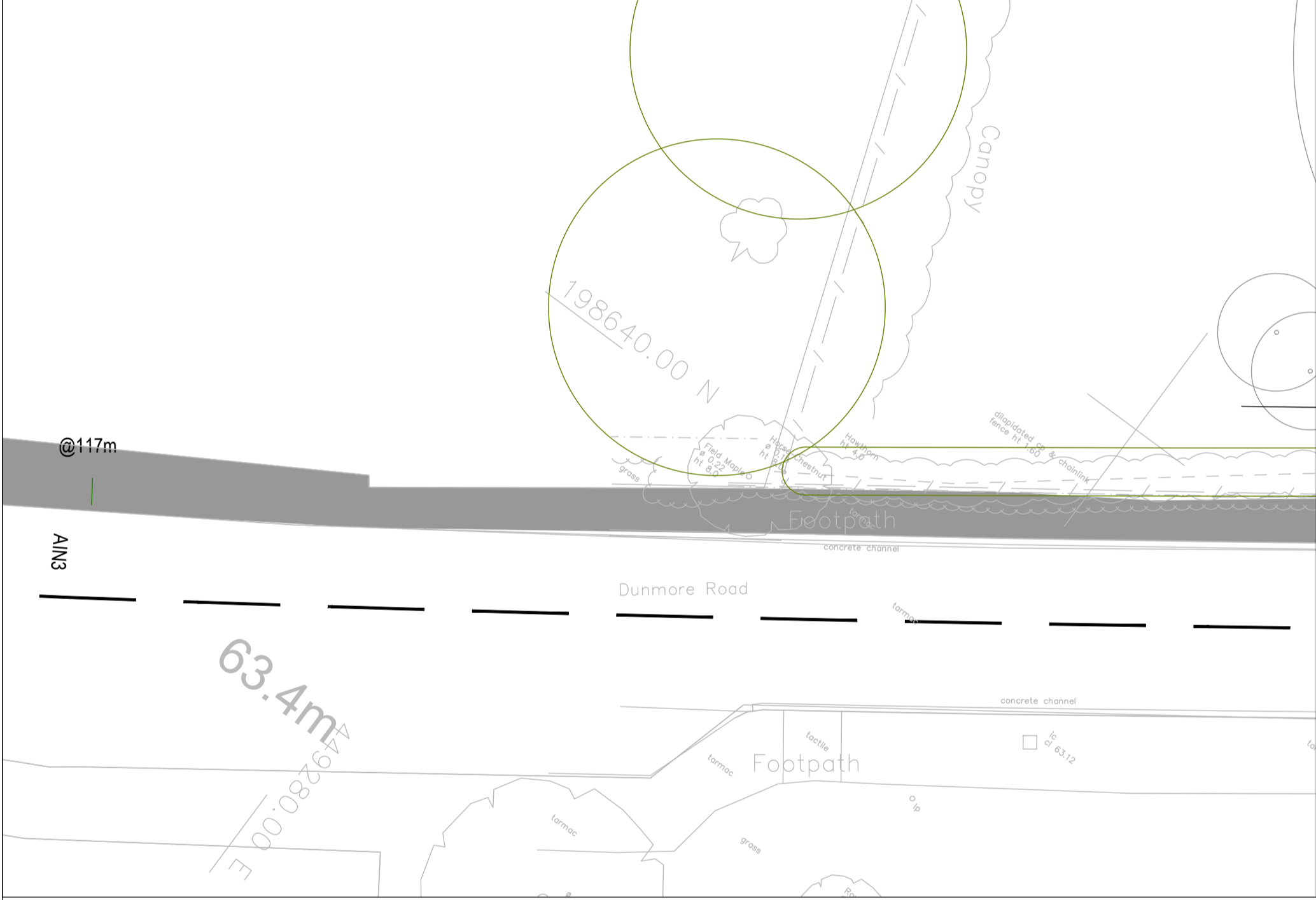


Surface Finishes
1:200



Surface Finishes
1:100

NOTES

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Kerb Legend

Kerb Ref	Type	Dimensions	Notes
HB2	HB2	125x255	125mm upstand
BN0	BN0	-	0-6mm upstand
CS0	CS2	150x150	Flush kerb laid with slight fall to channel eg Pedestrian crossings
Dr	-	125x255/150	Dropper kerb either left or right drop as required
EF	EF	50x150	Square edged path edging laid flush unless otherwise stated

Key

- Surface to be cold milled to depth of 40mm to accept 40mm overlay of HRA 35/14F surface 40/60 BS EN1208-4 PSV-68+ AAV 12 max
- Tactile paving (red)
- Footway construction see drg 2932_021_Signalised Crossing_Typical Details 1 of 2
- Vehicle crossover see drg 2932_021_Signalised Crossing_Typical Details 1 of 2

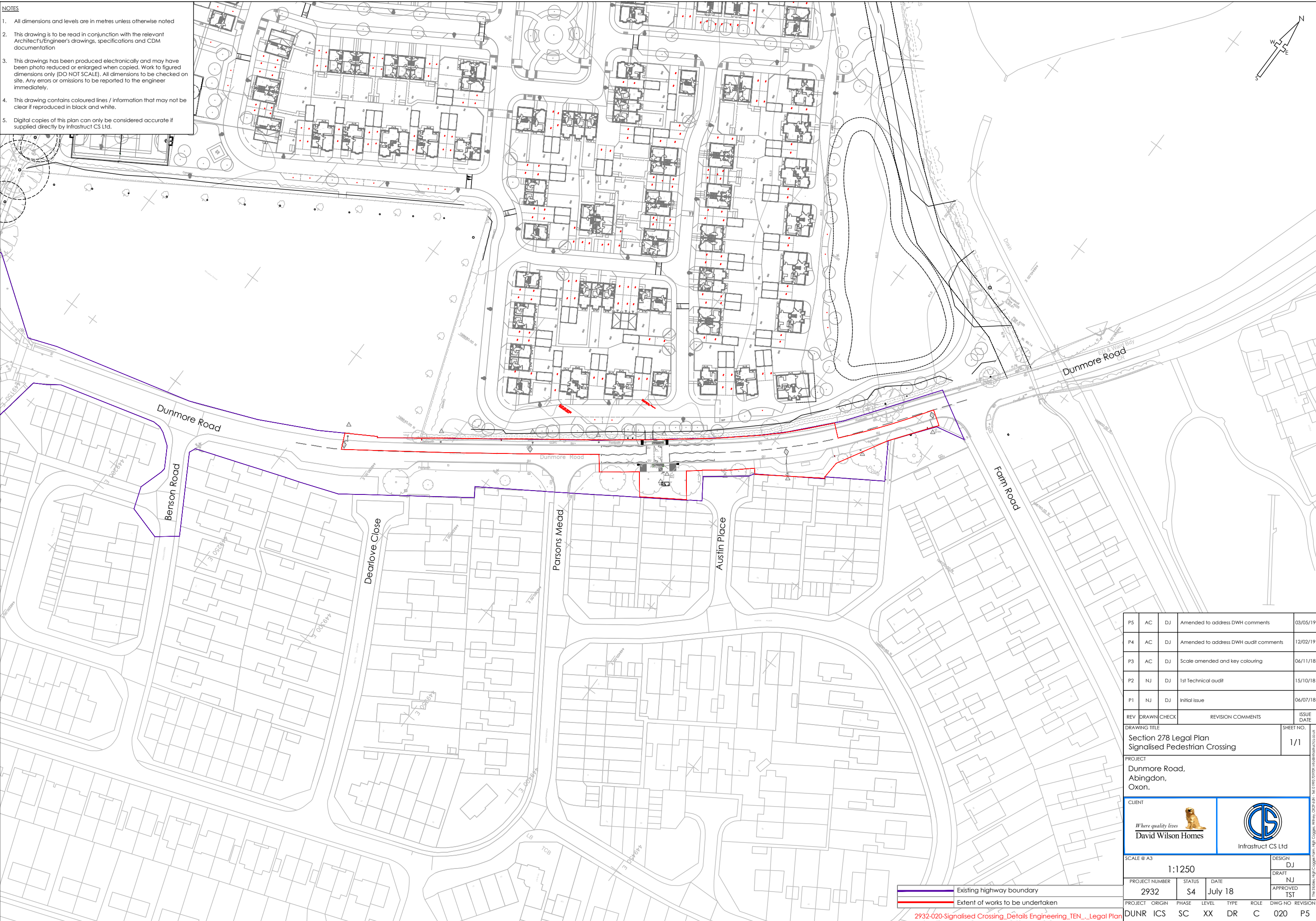
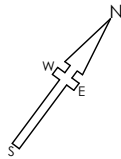
Column No's e46, e47, e48, e49, e50

Lantern: DW Windsor Krypton Pro 2 - Green RAL 6013
Lantern ref: Krypton Pro 2 48 LED 3K CLO 500lm A1 opt - RAL 6013
Lamp: 64 Watt 48 LED 3000K Colour temperature 9.3 km
Switch: One piece photovoltaic Niemys 7 pin type (Golden super RJ) set at 35 / 18 lux
Pre-set to dim to 75% between 00:00 to 6:00am
UNESCO Code: 42 0064 0000 100
Switch Regime: 017

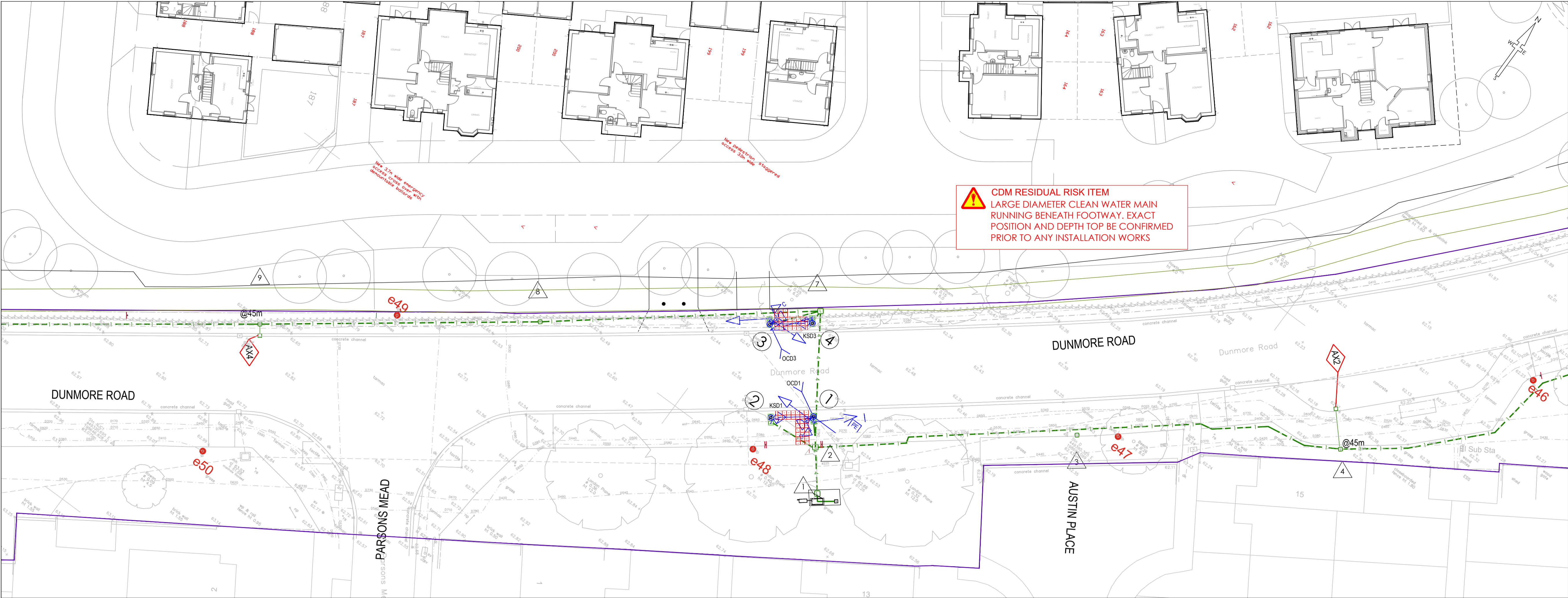
OCC REF - A 4 7 3 3

P4	AC	DJ	Amended to address DWH comments, adjustments to vehicle crossover and dimensions added	03/05/19
P3	AC	DJ	Amended to address DWH audit comments	12/02/19
P2	AC	DJ	Amended to address 2nd technical audit	05/11/18
P1	NJ	DJ	Initial issue	15/10/18
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
DRAWING TITLE				SHEET NO.
Surface Finishes & Kerb Specifications				1/1
Signalised Pedestrian Crossing				
PROJECT				
Dunmore Road				
Abingdon				
Oxon				
CLIENT				
David Wilson Homes				
ENGINEER				
DRAFT				
APPROVED				
NO. REVISION				
PROJECT	ORIGIN	PHASE	LEVEL	TYPE
DUNR	ICS	SC	XX	DR
SCALE @ A1				
As Noted				
PROJECT NUMBER	STATUS	DATE	ROLE	
2932	S2	October 18	C	
PROJECT				
DUNR	ICS	SC	XX	DR

- NOTES
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P5	AC	DJ	Amended to address DWH comments		03/05/19		
P4	AC	DJ	Amended to address DWH audit comments		12/02/19		
P3	AC	DJ	Scale amended and key colouring		06/11/18		
P2	NJ	DJ	1st Technical audit		15/10/18		
P1	NJ	DJ	Initial issue		06/07/18		
REV	DRAWN	CHECK	REVISION COMMENTS		ISSUE DATE		
DRAWING TITLE					SHEET NO.		
Section 278 Legal Plan Signalised Pedestrian Crossing					1/1		
PROJECT							
Dunmore Road, Abingdon, Oxon.							
CLIENT							
<div><div><p>Where quality lives David Wilson Homes</p></div><div><p>Infrastruct CS Ltd</p></div></div>							
SCALE @ A3					DESIGN		
1:1250					DJ		
PROJECT NUMBER		STATUS	DATE	DRAFT			
2932		S4	July 18	NJ			
				APPROVED			
				TST			
PROJECT	ORIGIN	PHASE	LEVEL	TYPE	ROLE	DWG NO	REVISION
DUNR	ICS	SC	XX	DR	C	020	P5

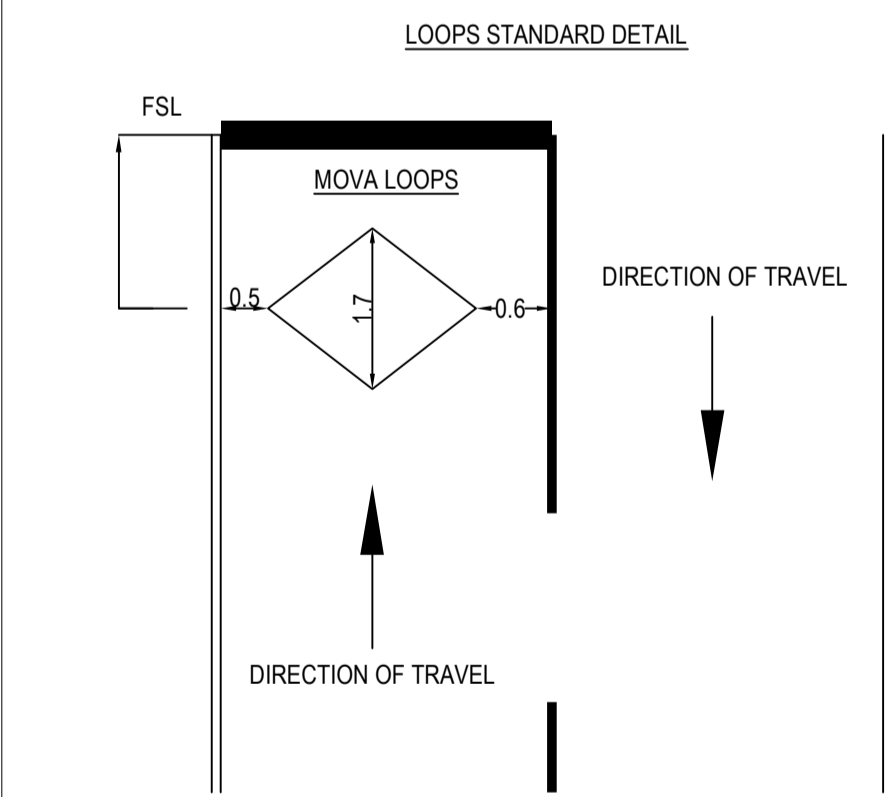
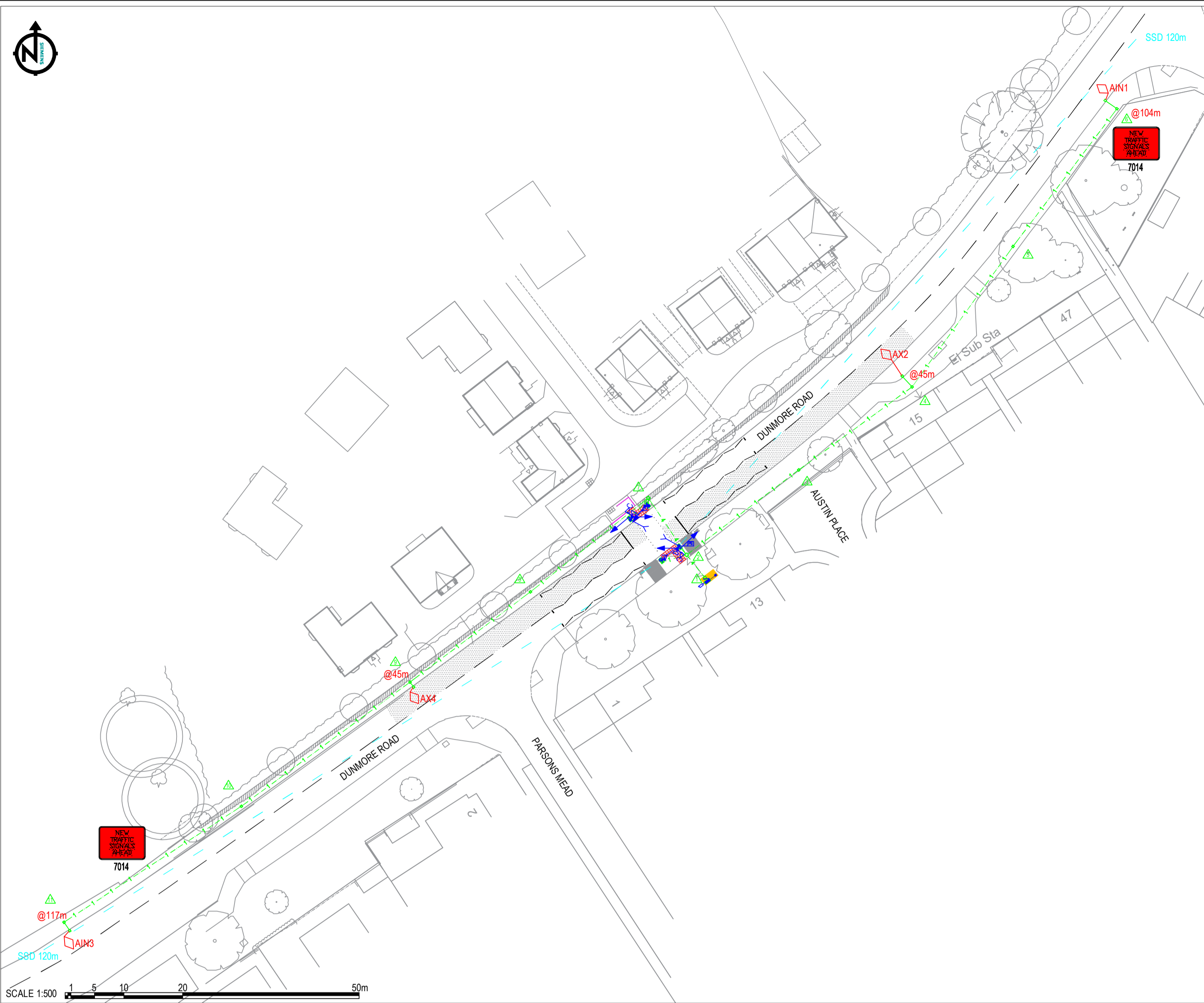


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SERVICES	
catv	
communication	
electric	
foul water	} drainage
storm water	
fuel oil line	
gas	
GPR trace (unknown)	
multiduct	
power trace	
radio trace (unknown)	
service duct	
street lighting	
telecom	
water	

D850	approx depth (mm)
EOT	end of trace
RS	rod stops
UTT	unable to trace
UTTF	unable to trace further

P5	AC	DJ	Proposed signalised crossing shown	03/05/19
P4	NJ	DJ	Amended to address DWH audit comments	12/02/19
P3	NJ	DJ	Drawing number changed	29/01/19
P2	NJ	DJ	Minor amendments	15/10/18
P1	NJ	DJ	Initial issue	04/06/18
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
DRAWING TITLE				SHEET NO.
Utilities				1/1
Signalised Pedestrian Crossing				
PROJECT				
Dunmore Road				
Abingdon				
Oxon				
CLIENT				
Where quality lives				
David Wilson Homes				
ENGINEER				
DRAFT				
APPROVED				
NO. REVISION				
DUNR				
ICS				
SC				
XX				
DR				
C				
050				
P5				



NOT TO SCALE

AIN1	1x pr non-armoured Approx length 119m	2x16 core (1.5mm ²) Approx length 16m	①
AX2	1x pr non-armoured Approx length 15m	1x12 core (1.5mm ²) Approx length 15m	②
AIN3	1x pr non-armoured Approx length 166m	2x16 core (1.5mm ²) Approx length 31m	③
AX4	1x pr non-armoured Approx length 14m	1x18 core (1.5mm ²) Approx length 25m	④

GENERAL

- This site should be installed in accordance with the approved version of this drawing and associated technical note 857150688/TN/001. Any deviation should be discussed and agreed with the designer or an Oxfordshire County Council (OCC) representative prior to commencing works.
- Drawing to be reproduced in colour.
- Works to be completed in accordance with the requirements of OCC.
- A full electrical design for the traffic signal system has not been completed as part of the traffic signal design. It is the responsibility of the traffic signal contractor to complete and electrical design in accordance with BS7671. On completion of the installation a fully completed electrical installation certificate should be provided to the highway authority, signed by the electrical design team, installation team and the inspection and testing team.

CIVILS

- Traffic signal ducting should be orange in colour, high density polyethylene of 100mm with 'Traffic Signals' marked at 1m intervals. Draw ropes should be provided in the duct runs for the use of pulling cable. The maximum bend in ducting runs should not exceed 45° radius.
- Ducts in the carriageway to have a minimum of 750mm cover. Ducts in the footway/verge to have a minimum of 450mm cover.
- 1x 50mm diameter orange duct to be laid between each carriageway loop box and adjacent duct boxes.
- All poles to be positioned 0.6m and 0.45m from the carriageway edge and tactile paving slabs respectively.
- All poles to be rotated 45° from the carriageway edge.
- All poles to be positioned to allow a minimum of 450mm clearance from the edge of any equipment to the edge of the carriageway. Final position to be agreed with OCC prior to installation.
- Controller to be installed on a suitable sized NAL controller base, surrounded by a hard standing area as per this drawing easing maintenance tasks and minimising effects of vegetation overgrowth.
- The electrical supply feeder pillar is to be installed at least 1m from the controller.
- Grey coloured high PSV surfacing (+68 PSV) or High Friction Surfacing (HFS) shall be applied for an absolute minimum distance of 53m up to the first row of pedestrian crossing studs on both approaches.

SIGNING AND LINING

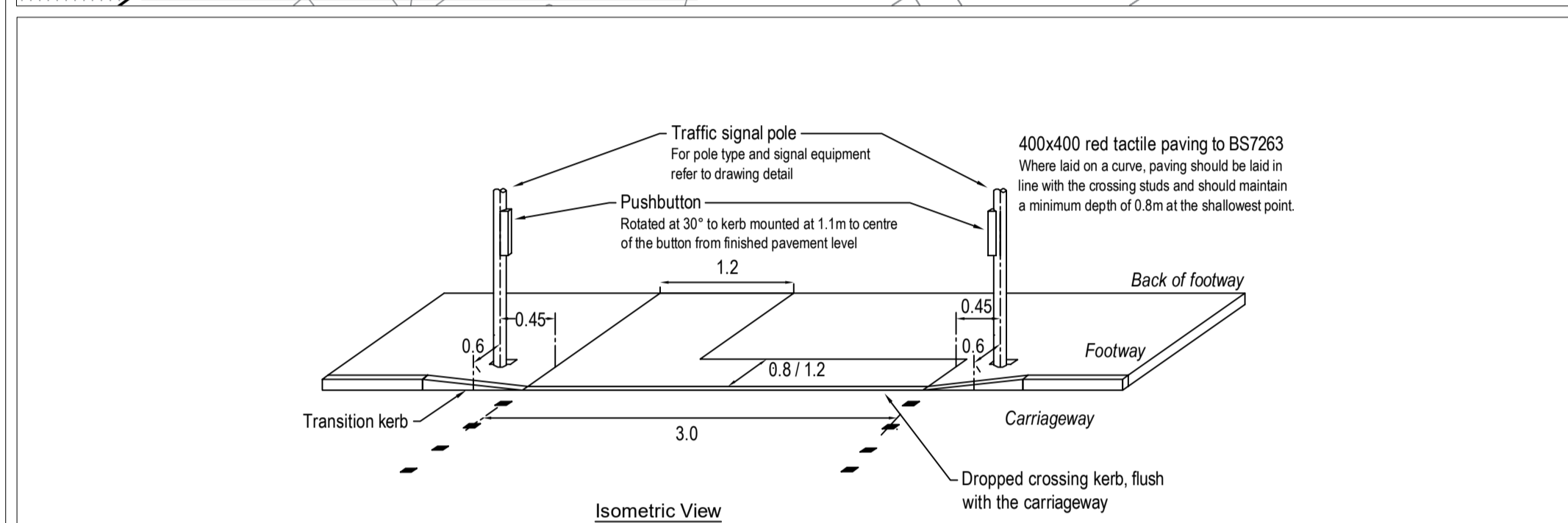
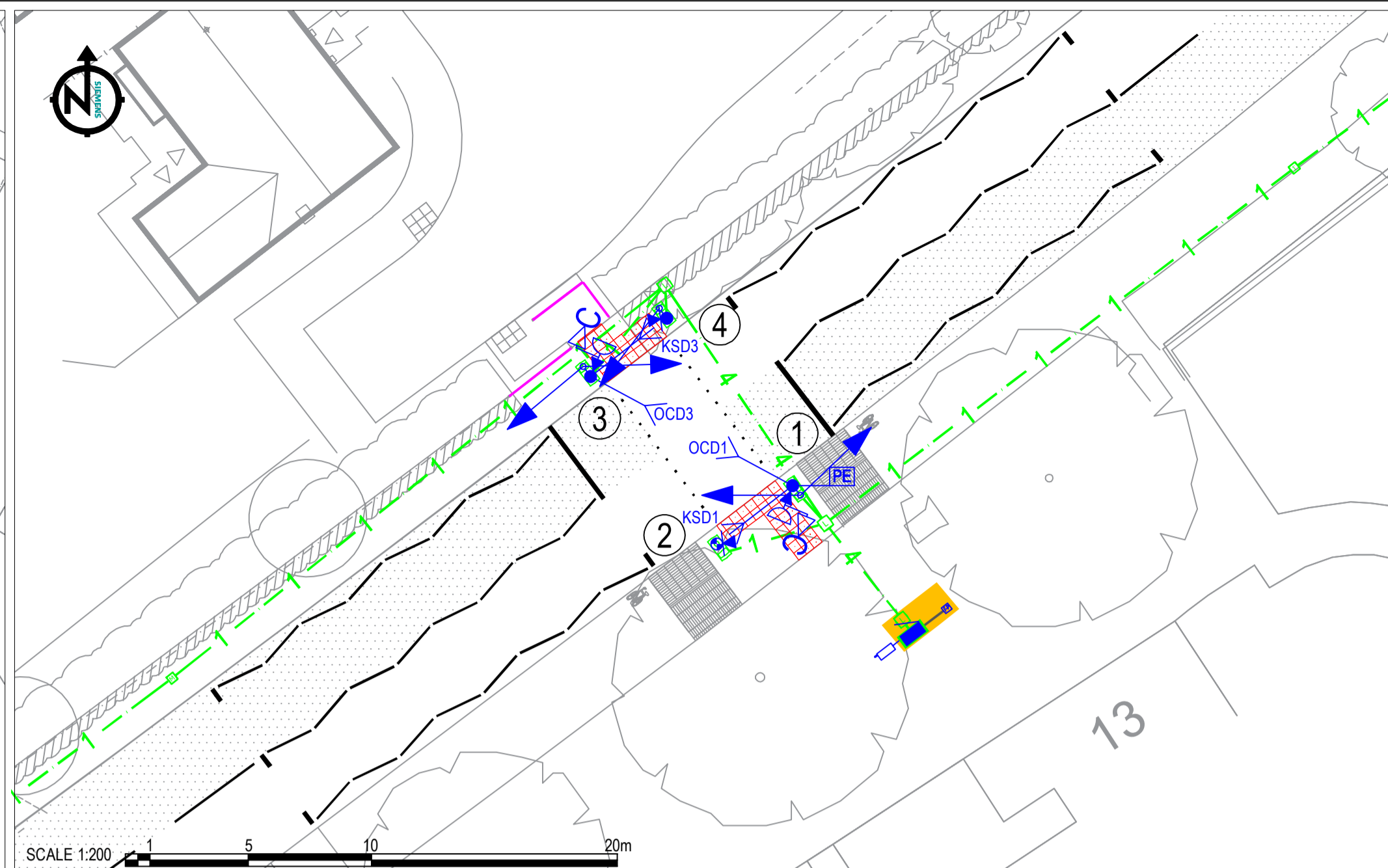
- All road markings to be laid in accordance with the 'Traffic Signs Regulations and General Directions 2016'. White lining shown has been provided by the client.
- Temporary 'New Traffic Signals Ahead' sign to diag 7014 to be installed on each approach, on a suitable post at approximately 100m from the stop line. Signs to be taken down after a period of no longer than 3 months.

TRAFFIC SIGNAL EQUIPMENT

- All equipment to be ELV (Extra Low Voltage) and all poles are to be non-passive steel poles.
- All equipment to be grey coloured and traffic signal poles to be numbered as shown.
- Height of all red aspects to be consistent across the site. Distance between the bottom of the signal head and finished surface level to be a minimum of 2.4m.
- Nearside pedestrian signals must be installed with combined push button units. Push button wait indicators to be fitted at 30° from the carriageway edge, complete with rotating tactile cones. Exact orientation to be agreed on site with OCC prior to installation.
- All right hand side push buttons to be fitted with audible devices, to be timetabled for activation initially set to activate between 07:00 and 23:00. Audibles must be volume adjustable.
- The contractor is responsible for the provision of a suitable 230V 50Hz electrical supply, to be terminated into the adjacent electrical supply pillar (supplied by the signals contractor). The contractor will connect to the main supply via a 25Amp rated lockable isolator.
- A Siemens GSM OMU complete with the latest MOVA licence to be supplied and to include configuration, download and test.

COMMUNICATIONS

- A data enabled GSM SIM card is to be free-issued by OCC.
- GSM Antenna is to be cabinet mounted.
- Siemens ITS Consultancy Services has been commissioned to attend SAT. An OCC representative is also required to to attend SAT.
- This Toucan crossing is to operate under MOVA control.
- Siemens ITS Consultancy Services has been commissioned to carry out MOVA works.



NOT TO SCALE

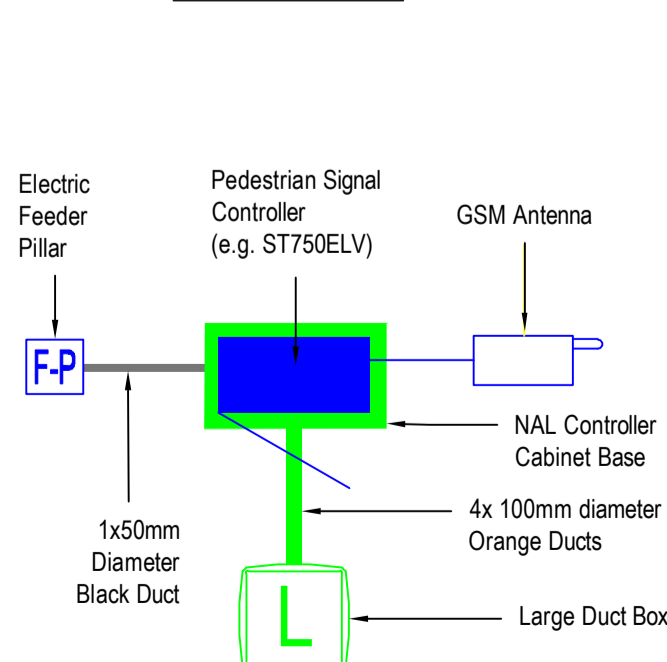
SITING of POLES & EQUIPMENT SCHEDULE

Pole No	Pole Height (m)	Pole Type	Pole Distance to Kerb Face	Pole Distance to Tactile	Primary ELV RAG Signal Head	Secondary ELV RAG Signal Head	ELV Toucan Display with Combined PBU	ELV PBU	Tactile Device	Audible Device	On Crossing Detector	Kerbside Detector	PE Cell
1	4.00	Straight	0.60	0.45	2	-	1	-	1	1	1	1	1
2	2.00	Stub	0.60	0.45	-	-	-	1	1	-	-	-	-
3	4.00	Straight	0.60	0.45	2	-	1	-	1	1	1	1	-
4	4.00	Straight	0.60	0.45	-	1	-	1	1	-	-	-	-

VEHICLE DETECTOR SCHEDULE

Detector Label	Detector Distance from the Associated Stop Line (m)	Detector Type
AIN1	104	MOVA / VA
AX2	45	MOVA / VA
AIN3	117	MOVA / VA
AX4	45	MOVA / VA

CONTROLLER DETAIL





NOTE: Timings are based on concurrent mode

Period	Signals Shown		*Timings (seconds)
	To Pedestrians	To Vehicles	
P1	Red Standing Figure (wait)	Green (proceed if way is clear)	E= 7.4m 7-30
P2	Red Standing Figure	Amber (stop unless not safe to do so)	3
P3	Red Standing Figure	Red (stop, wait behind Stop line on carriageway)	3
P4	Green Walking Figure with Audible signal	Red	5
P5	Red Standing Figure (do not start to cross)	Red	3
P6	Red Standing Figure	Red	10
P7	Red Standing Figure	Red	0
P8	Red Standing Figure	Red	0
P9	Red Standing Figure	Red with Amber (stop)	2

DRAWING N°	857150688/D/001	ISSUE	3
KEY:-			
SIGNAL POLES - Grey Coloured			
4.0m Straight Pole			
2.0m Stub Pole			
VEHICLE SIGNAL HEADS			
Primary ELV RAG LED Signal Head			
Signal Head Side-Mounted on Pole (not bracket)			
SIGNAL EQUIPMENT			
ELV Pedestrian Controller with NAL Cabinet Base			
Electric Feeder Pillar (FP)			
Photo-Electric Cell (PE)			
GSM Cabinet Mounted Antenna			
MOVA Loops (IN / X)			
PEDESTRIAN SIGNAL EQUIPMENT			
ELV Nearside Toucan Display, Combined Demand Unit + Tactile Cone and Audible Devices			
ELV Push Button Unit + Tactile Cone			
Kerbside Detector (KSD)			
On Crossing Detector (OCD)			
CIVILS (Proposed)			
1x50mm dia Black Duct			
1x100mm dia Orange Traffic Signal Duct			
4x100mm dia Orange Traffic Signal Duct			
Large Duct Box (600x600mm)			
Medium Duct Box (450x450mm)			
Carriageway Loop Box with 50mm dia under Kerb Duct			
Pole Retention Socket (NAL115/600DF)			
MISCELLANEOUS			
Pole Number			
Duct Box Number			
Red Coloured Tactile Paving (400x400mm)			
Pedestrian Crossing Studs (100x100mm)			
+68 PSV wearing course surface or HFS			
Hard Standing Area			
Stopping Sight Distance (SSD)			
Pedestrian Guard Rail (shown indicatively)			

DO NOT SCALE

3	Updated to show approval	SM				13/08/19	
3	Notes updated following order of SAT and MOVA	SM		MG	CC	15/05/19	
2	Customer comments incorporated	TH		MN	LB	4.9.18	
ISSUE	DESCRIPTION	DRN	CHK	APP		DATE	
SIEMENS							
DRAWING STATUS							
APPROVED							
CUSTOMER							
INFRASTRUCT CS LTD							
SCHEME TITLE							
TRAFFIC SIGNAL DESIGN TOUCAN CROSSING DUNMORE ROAD NEAR PARSONS MEAD ABINGDON, OXFORDSHIRE							
DATE: 4.9.18	SCALE: A/S	DRN: DV	CHKD: TH	APP: SD	 		
Siemens Mobility, Traffic Solutions Sopers Lane Pole Donnet	SHEET NO: 1 of 1	PAPER SIZE: A1					
B917 728 Tel: 01202 782000 Fax: 01202 782797 www.siemens.co.uk/traffic	DRAWING N°: 857150688/D/001						
HAS IHE							