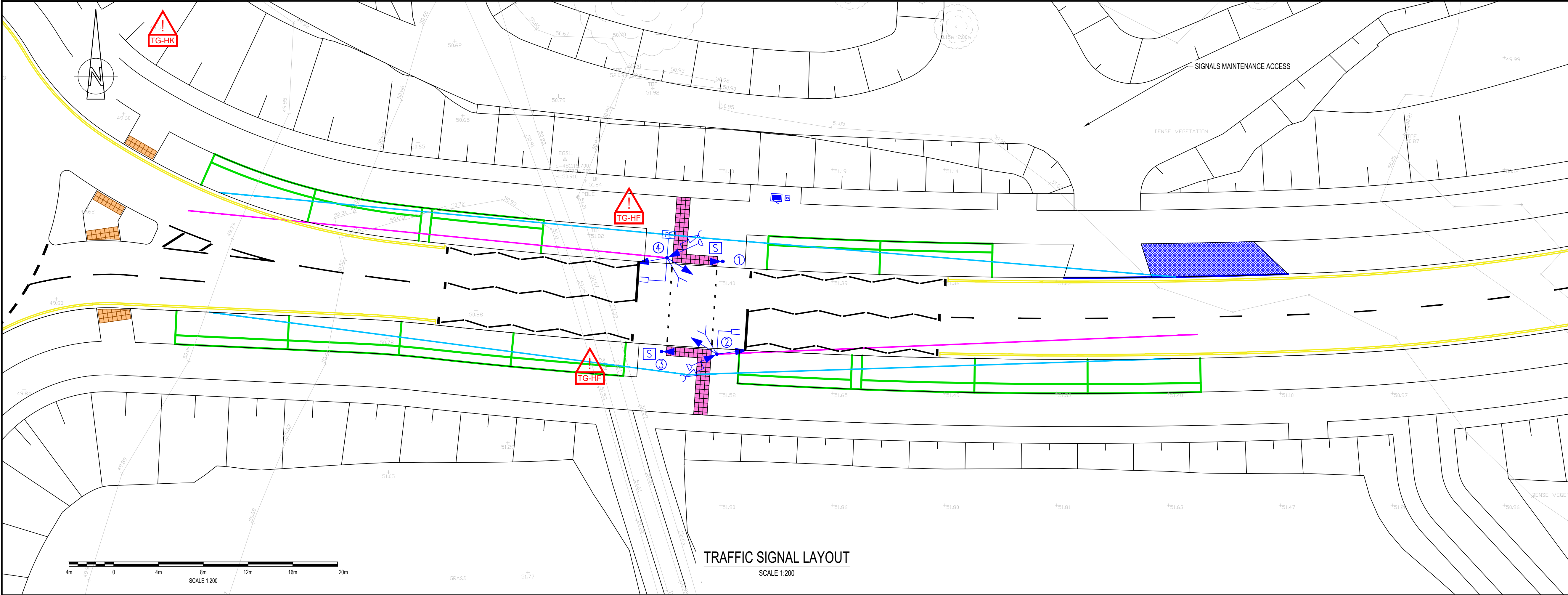
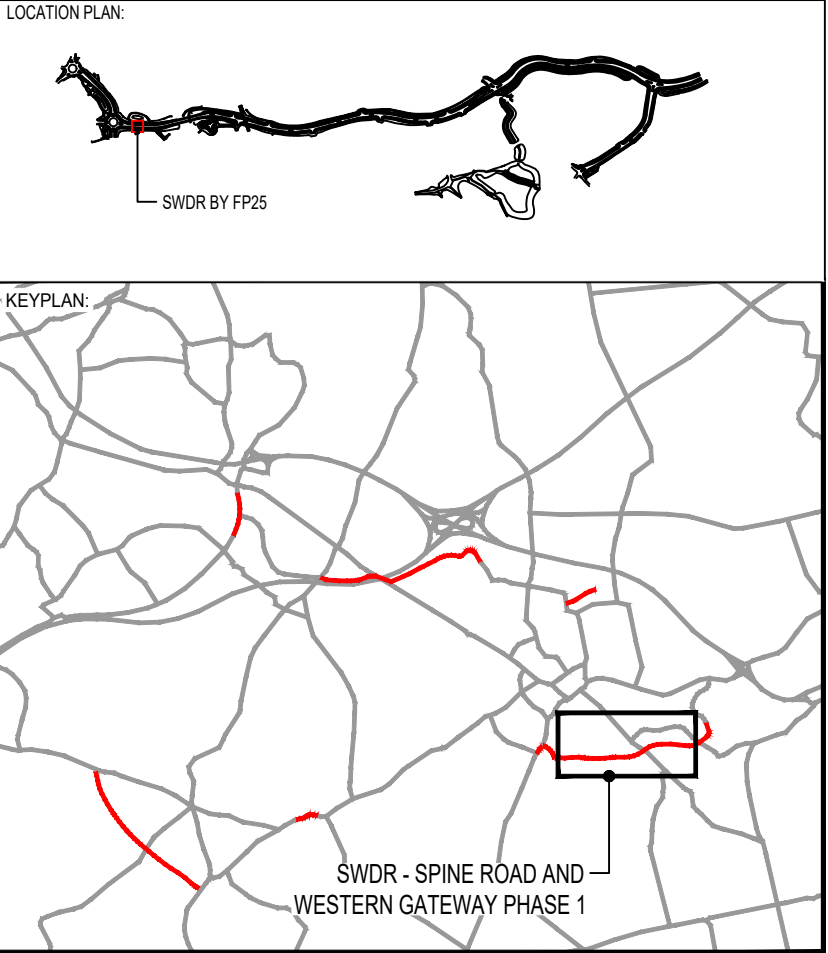




DO NOT SCALE

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
3. THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
4. FOR DETAILS OF PSV SURFACING REFER TO 700 SERIES.
5. FOR DETAIL OF KERBS, FOOTWAYS AND PAVED AREAS REFER TO 1100 SERIES.
6. DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS WMHP-TG-SRWG1-DR-HI-1201 TO 1208
WMHP-TG-SRWG1-DR-HI-1221
AND SPECIFICATIONS
WMHP-TG-SRWG1-SP-HI-1201 AND 1205

LEGEND
PRIMARY RAG SIGNAL HEAD
4m POLE STRAIGHT
SHORT POLE
TRAFFIC SIGNAL POLE NUMBERING
MVD (STANDARD BEAM)
ON-CROSSING DETECTOR
NEARSIDE TOUCAN SIGNAL WITH COMBINED PUSHBUTTON AND AUDIBLE AND TACTILE DEVICES
NEARSIDE PUSHBUTTON WITH AUDIBLE AND TACTILE DEVICES
PHOTO ELECTRIC CELL
MAINTENANCE VEHICLE PARKING
TRAFFIC SIGNAL CONTROLLER ON NAL BASE
POWER PILLAR
NMU CROSSING VISIBILITY IN ACCORDANCE WITH WOKINGHAM BOROUGH COUNCIL CYCLING INFRASTRUCTURE STYLE GUIDE WITH MINIMUM X VALUE OF 2.5m AND Y VALUE OF 43m IN ACCORDANCE WITH MFS SSD REQUIREMENTS
VISIBILITY TO SIGNAL HEADS IN ACCORDANCE WITH CD123 OF 43m SSD ACCORDING TO MFS VEHICLE SSD REQUIREMENTS.



- TRAFFIC SIGNAL NOTES
- 1 The site is a new ELV nearside Toucan crossing running VA with remote monitoring. On-crossing detection is utilised but kerbside detection is not.

2 Nearside Toucan signals and pushbuttons with combined pushbutton and audible and tactile devices are utilised. Audible devices shall be timetabled not to operate overnight.

3 All traffic signal heads shall be installed with 2.3m clearance to the underside.

4 All secondary heads shall be fitted with primary hoods.

5 On-crossing detectors shall be AGD326 or agreed equivalent. Where necessary pedestrian detection shall be installed on extended brackets to ensure clear visibility of the required detection area.

6 All signal heads, nearside signals and pushbuttons shall be LED.

7 No signal equipment shall be installed with less than 450mm clearance from the kerbside.

8 The controller cabinet shall be a small form case with a NAL 'cabinet style' base appropriate for the controller type.

9 Labelling:

a) The controller cabinet shall be labelled with the site reference using black letters of 75mm X-height imprinted on a white background and with a BS7671 electricity hazard warning symbol below;

b) The power pillar shall be labelled with the site reference using black letters of 75mm X-height imprinted on a white background and with a BS7671 electricity hazard warning symbol below; and

c) All poles to have pole numbers which shall be fixed before the site acceptance testing (SAT).

10 Poles:

a) 4m (nominal) poles shall be mid-access fitted with a standard matching colour vented pole cap. Poles shall not be pre-drilled for pushbuttons and shall not have cable entry slots; and

b) Short poles (1.8m) shall have welded pole caps and shall not have cable entry slots.

11 All poles shall be installed twisted by 45 degrees to correct clearance of signal heads from edge of carriageway.

12 Each pole shall be separately cabled from the controller.

13 Poles, controller, controller NAL base and power pillar shall be finished black.

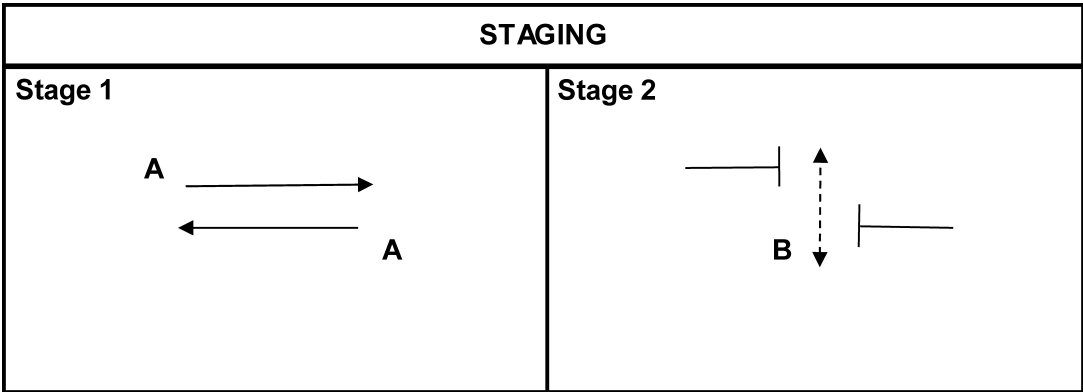
14 A 4G STRATOS unit shall be supplied, installed and configured to the Wokingham Borough Council (WBC) cloud-based system requirements. A Stratos 4G aerial shall be fixed to the outside of the controller case and black in colour. SIM cards shall be free issued by the local authority.

15 The location of the controller, power pillar and all poles and the alignment of signal heads and nearside Toucan signals and pushbuttons shall be agreed on site with the Local Authority Traffic Signal Engineer.

16 All works shall comply with the Appendix 12/5 works specification and all other relevant engineering details and drawings. The scheme shall be carried out in accordance with the DMRB code of practice.

CROSSING SCHEDULE					
CROSSING REF.	PHASE	TYPE	DESCRIPTION	WIDTH	NUMBER TACTILE PAVING BLOCKS
1	B	TOUCAN	ACROSS THE SPINE ROAD	4.00m	10
NOTES: 1) TACTILE PAVING BLOCKS ARE 400MM X 400MM SQUARE AND COLOUR RED.					

TIMINGS			
PERIOD	PEDESTRIAN	TRAFFIC	TIME (SECONDS)
1	RED	GREEN	MAX 30, MIN 7
2	RED	AMBER	3
3	RED	RED	1GAP, 3 MAX
4	GREEN	RED	6
5	RED	RED	3
6	RED	RED	6
7	RED	RED + AMBER	2



SIGNIFICANT RESIDUAL HAZARDS		
RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
STRIKING UNDERGROUND SERVICES	C	HAND DIGGING AND CAT SCANNING TECHNIQUES SHALL BE UNDERTAKEN TO LOCATE SERVICES/UTILITIES. MARK UP ON SITE IF REQUIRED. NO WORKS TO BE UNDERTAKEN WITHOUT A VALID PERMIT TO DIG.
ELECTROCUTION OF OPERATIVES - LARGE PLANT OR INFRASTRUCTURE STRIKING OVERHEAD CABLES (WHICH EXTENDS ACROSS AND ALONG MOLLY MILLARS LANE BEFORE CROSSING FINCHAMPSTEAD ROAD (NORTH OF THE ROUNDABOUT))	C	ALL WORKERS WORKING IN THE VICINITY ARE TO BE AWARE OF THE LOCATION OF OVERHEAD CABLES AND THE ELECTRICITY PYLON AT ALL TIMES DURING THE WORKS. ENSURE THAT THE PROCEDURES SET OUT IN GUIDANCE NOTE G58 ARE CARRIED OUT AND A SAFE SYSTEM OF WORK IS IN PLACE.

POLE SCHEDULE												
Pole Ref	Pole Type	Traffic Signal Heads			Toucan Equipment		Detection		Pole Setting Out			Comments
		Head Reference	Head Type	Primary Head + Primary Hood	Nearside Toucan Signal	Nearside pushbutton	On-crossing detector	MVD	Clearance stipline to studs	Clearance pole from studs	Clearance pole from kerb face	
1	S	-	-	-	-	Yes	-	-	-	0.50m	0.60m	
2	4m	1	RAG+	Yes	Yes	-	Yes	Yes	3.00m	0.50m	0.60m	
		2	RAG+	Yes								
3	S	-	-	-	-	Yes	-	-	-	0.50m	0.60m	
4	4m	1	RAG+	Yes	Yes	-	Yes	Yes	3.00m	0.50m	0.60m	PE on this pole
		2	RAG+	Yes								
KEY: a) PE = photo electric cell; b) 4m = 4m (nominal) straight pole; c) S = short pole for pushbutton (1.8m); and d) + = 2.3m clearance to the underside of the head.												

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