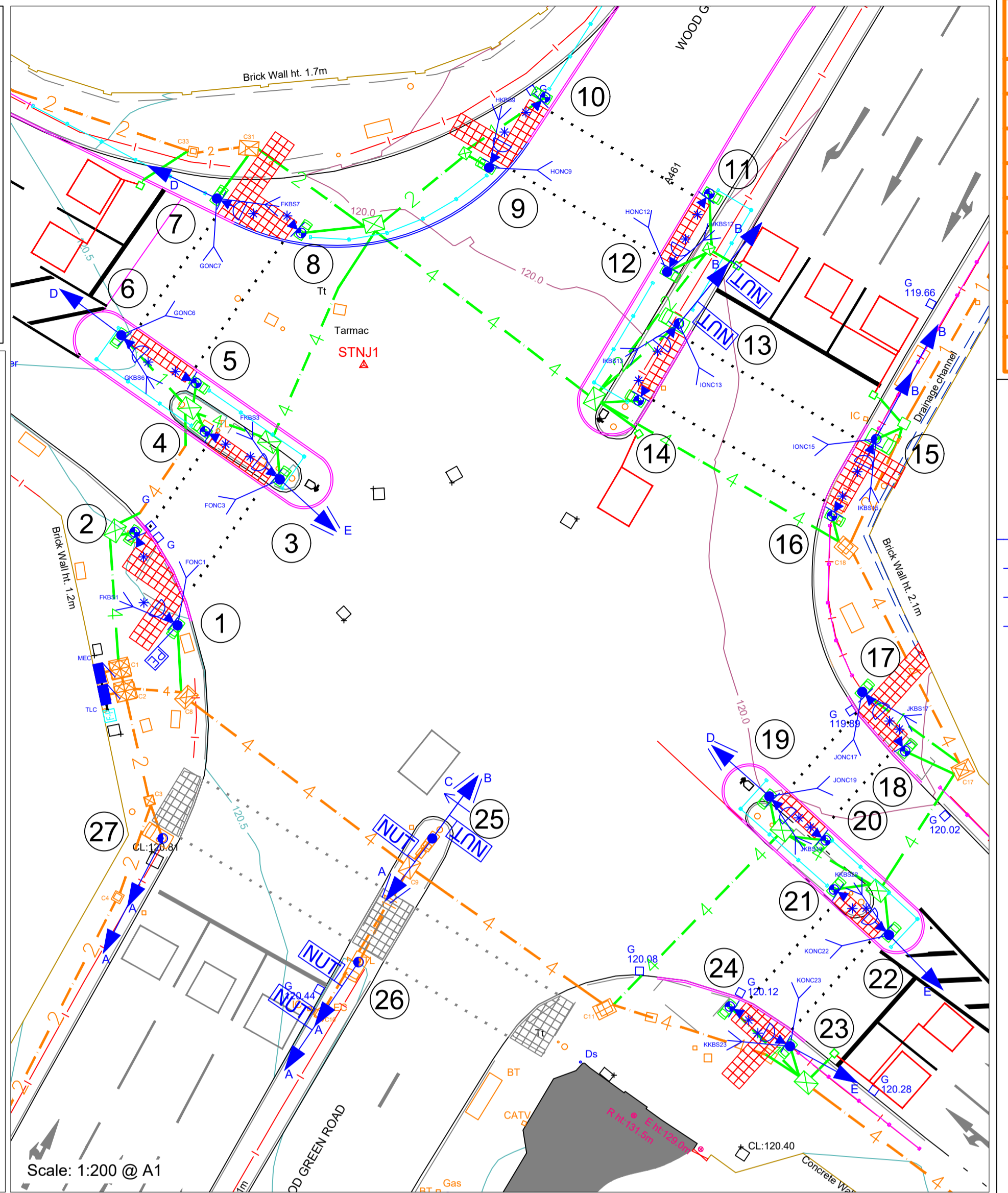


- Notes:**
- Controller to be a Large Case Telent OPTIMA ELV installed on a NAL Controller Cabinet Base with integral MOVA and Remote Monitoring. Suitable SIM card to be provided by SMBC.
  - Poles 13, 15, 26 & 27 are to be 168mm diameter 6m Slotless and installed 530mm deep. Poles 2, 4, 5, 8, 10, 11, 14, 16, 18, 20, 21 & 24 are to be 114mm diameter 2m Stub and installed 450mm deep. All other poles are to be 114mm diameter 4m Low Access Spigot and installed 450mm deep.
  - All poles, traffic signal controller and termination cabinet are to be Black in colour.
  - Pole numbers are to be Black on a Yellow background.
  - The signal heads should be LED and both the signals and controller shall be ELV (Extra Low Voltage).
  - The photocell for dimming shall be located on a signal head on pole 1 where it will not be affected by street lighting.
  - Refer to 359781-RM drawing for all road marking information.
  - All puffin units are to be narrow field of view type.
  - All new ducting shall be polypropylene, orange in colour, smooth bore with 'Traffic Signals' imprinted on the duct. Draw cords shall be included in all ducts.
  - All new duct chambers are to have a grade B composite lid with steel frames and will have 150mm concrete bed and surround.
  - Ducting from RS115 NAL units to adjacent chamber are to be 1x100mm unless indicated otherwise. All other runs shall be as indicated by number.
  - Existing Black 50mm duct to be retained between electrical feeder pillar and controller for electricity supply.
  - Ducting is based on survey carried out in May 2023
  - Drawing to be read in conjunction with the works specification and drawings:

- 359781-TS02
- 359781-CV01
- 359781-CV02
- 359781-CV03
- 359781-RM
- 359781-RM



- Hazards**
- Underground HV Cables within the vicinity of works.
  - Underground LV Cables within the vicinity of works.
  - Gas Mains within the vicinity of works.
  - Underground BT Cables within the vicinity of works.
  - Underground Virgin Media Cables within the vicinity of works.
  - Underground Water Mains within the vicinity of works.
  - Street Lighting cables within the vicinity of works.
- Statutory undertakers information has been provided by customer. All other information has been obtained from site survey and online search.

- SIGNALS KEY- NEW**
- Large Case Telent OPTIMA ELV Traffic Signal Controller and MEC Cabinet installed on a NAL Controller Cabinet Base.
  - 6m Low Access Slotless Signal Pole.
  - 4m Low Access Spigot Signal Pole.
  - 2m Slotless Stub Pole.
  - High Level RAG Primary Signal Head and Phase Label.
  - RAG Primary Signal Head and Phase Label.
  - RAG Secondary Signal Head and Phase Label.
  - RAG+RTIGA Secondary Signal Head. 4-in-line.
  - No U-Turn Regulatory Box Sign 4-in-line.
  - Nearside Puffin Indicator Combined Unit (NFOV).
  - Pedestrian Demand Unit.
  - Brushless Tactile Device.
  - AGD 326 On-Crossing Detector and Label.
  - AGD 641 / 645 Kerbside Detector and Label.
  - Photocell Cell.
  - Signal Pole Number.
  - Stopline Detection Loop.
  - MOVA Detection Loop and Label.
  - Call / Cancel Detection Loop.
- SIGNALS KEY- TO BE RETAINED**
- Existing MOVA Detection Loops.
- CIVILS KEY- NEW**
- NAL STAKKAbOX Large Chamber 600mm x 450mm.
  - NAL STAKKAbOX Medium Chamber 450mm x 450mm.
  - NAL STAKKAbOX Small Chamber 300mm x 450mm.
  - NAL Pole Retention Socket RS115.
  - Large NAL Pole Retention Socket RS168.
  - NAL Carriageway Loop Box with 50mm Connecting Duct.
  - New 100mm Orange Traffic Signals Duct (No. as indicated).
  - New 400mm x 400mm Tactile Paving (Red in colour).
  - Pedestrian Guard rail - Vertical Type.
  - 'Keep Left' self-righting Bollard.
  - Proposed Gully and Chute.
- CIVILS KEY- TO BE RETAINED**
- Existing Electrical Feeder Pillar.
  - Existing Large Chamber 600mm x 600mm.
  - Existing Medium Chamber 600mm x 450mm.
  - Existing Square Chamber 450mm x 450mm.
  - Existing Small Chamber 300mm x 300mm.
  - Existing Pole Retention Socket RS115.
  - Existing Large Pole Retention Socket RS168.
  - Existing 100mm Orange Traffic Signals Duct (No. as indicated).
  - Existing 50mm Black Duct for Electrical Feed.
  - Existing Uncontrolled Tactile Paving (Buff in colour).
  - Pedestrian Guard rail.

**Cable Schematic**

Termination Cabinet	Link	Controller Chamber
BIN8	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	1
BIN9	1x 8 core (1.5mm <sup>2</sup> )	2
CIN10	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	3
BX11	1x 8 core (1.5mm <sup>2</sup> )	4
BX12	1x 8 core (1.5mm <sup>2</sup> )	5
CX13	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	6
BSL14	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	7
BSL19	1x 8 core (1.5mm <sup>2</sup> )	8
CSL16	1x 20 core (1.5mm <sup>2</sup> )	9
CCC17	1x 8 core (1.5mm <sup>2</sup> )	10
DIN18	1x 8 core (1.5mm <sup>2</sup> )	11
DX19	1x 20 core (1.5mm <sup>2</sup> )	12
DSL20	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	13
DSL21	1x 8 core (1.5mm <sup>2</sup> )	14
EIN22	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	15
EX23	1x 8 core (1.5mm <sup>2</sup> )	16
EX24	1x 20 core (1.5mm <sup>2</sup> )	17
ESL25	1x 8 core (1.5mm <sup>2</sup> )	18
ESL26	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	19
	1x 8 core (1.5mm <sup>2</sup> )	20
	1x 8 core (1.5mm <sup>2</sup> )	21
	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	22
	1x 20 core (1.5mm <sup>2</sup> ) 1x 8 core (1.5mm <sup>2</sup> )	23
	1x 8 core (1.5mm <sup>2</sup> )	24
	1x 16 core (1.5mm <sup>2</sup> )	25
	1x 16 core (1.5mm <sup>2</sup> )	26
	1x 16 core (1.5mm <sup>2</sup> )	27

Pole Setting Out						Equipment Schedule										
Pole No	Pole Type	Pole Distance from Kerb (m)	Pole Distance from Tactile Paving (m)	NAL Retention Socket & Planting Depth	Notes	Primary Signal Heads	High Level Primary Signal Heads	Secondary Signal Heads	Box Signs	Detection	Pedestrian Equipment			Other Equipment		
										AGD 645 Kerbside Detector	AGD 641 Kerbside Detector	AGD 326 On-Crossing Detector	Nearside Puffin Indicator and Pedestrian Demand Unit (Combined) NFOV	Pedestrian Demand Unit only	Brushless Tactile Device	Photocell Cell
1	4m Straight Low Access	0.8	0.5	RS115 (600mm)						1		1	1			1
2	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
3	4m Straight Low Access	0.8	0.5	RS115 (600mm)				1			1	1				
4	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
5	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
6	4m Straight Low Access	0.8	0.5	RS115 (600mm)		1				1		1	1			1
7	4m Straight Low Access	0.8	0.5	RS115 (600mm)		1				1		1	1			1
8	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
9	4m Straight Low Access	0.8	0.5	RS115 (600mm)						1		1	1			
10	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
11	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
12	4m Straight Low Access	0.8	0.5	RS115 (600mm)						1		1	1			1
13	6m Straight Low Access	0.8	0.5	RS168 (750mm)		1	1		2	1		1	1			1
14	2m Stub	0.6	0.5	RS115 (600mm)					1							
15	6m Straight Low Access	0.8	0.5	RS168 (750mm)		1	1			1		1	1			1
16	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
17	4m Straight Low Access	0.8	0.5	RS115 (600mm)						1		1	1			1
18	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
19	4m Straight Low Access	0.8	0.5	RS115 (600mm)				1		1		1	1			1
20	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
21	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
22	4m Straight Low Access	0.8	0.5	RS115 (600mm)		1				1		1	1			1
23	4m Straight Low Access	0.8	0.5	RS115 (600mm)		1				1		1	1			1
24	2m Stub	0.6	0.5	RS115 (600mm)										1	1	
25	4m Straight Low Access			Existing					1	1	2					
26	6m Straight Low Access			Existing		1	1				2					
27	6m Straight Low Access			Existing		1	1									

Scale: 1:500 @ A1

**ISSUED FOR CONSTRUCTION**

Rev	Date	Description	By	Chkd	App
03	05/12/2023				
02	13/11/2023				
01	07/11/2023	First Issue			

Title: TS01 - Wood Green Road / Myvod Road Sandwell Traffic Signal Drawing

Project No: 801241 Scale: As shown Date: 28/06/2023

Drawn: JDM CAD File Name: 359781-TS-01-Rev00 (Construction)

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Originator: RDC Checked: DJWR Approved: PJS Approval Date: 07/11/2023

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