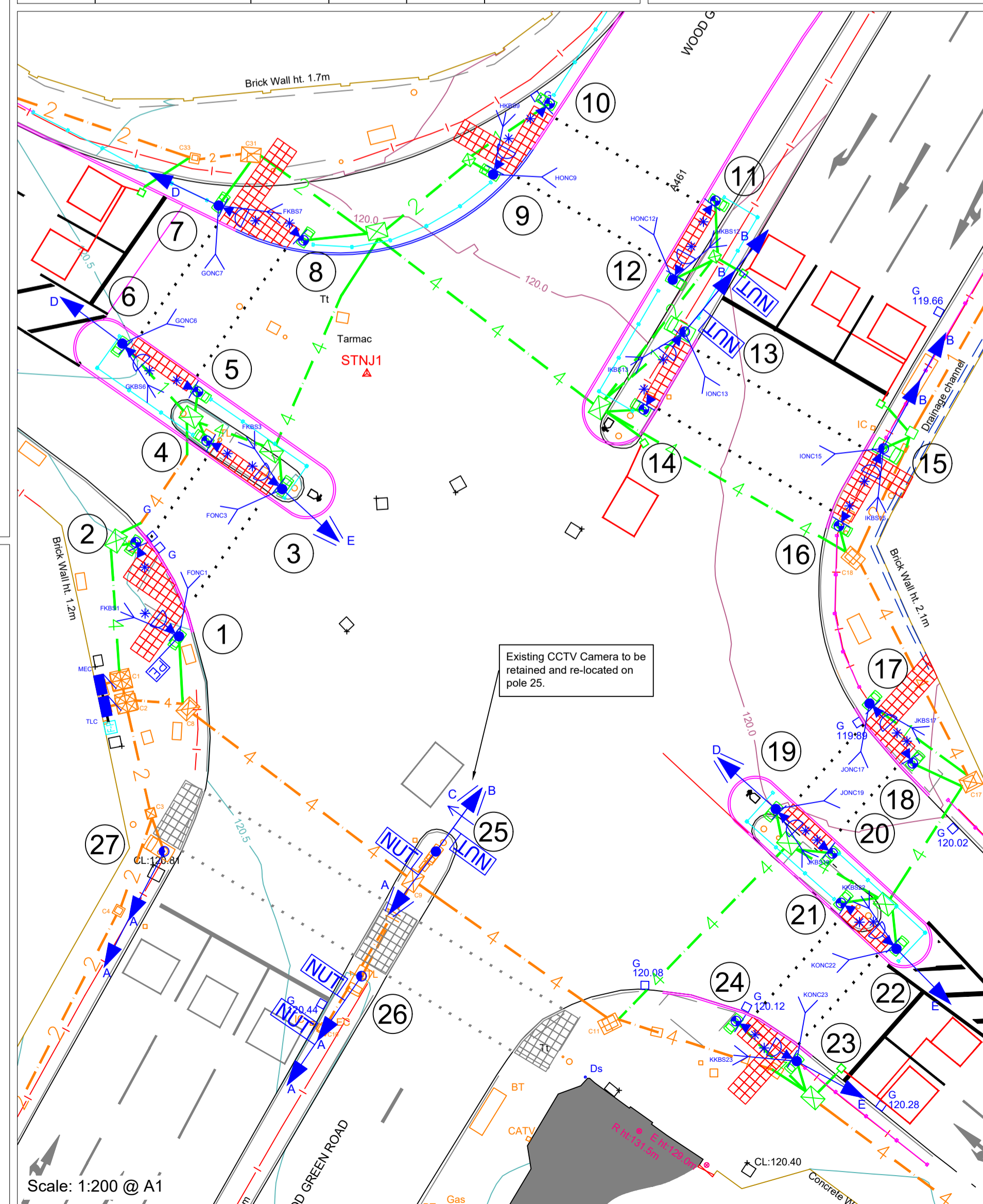
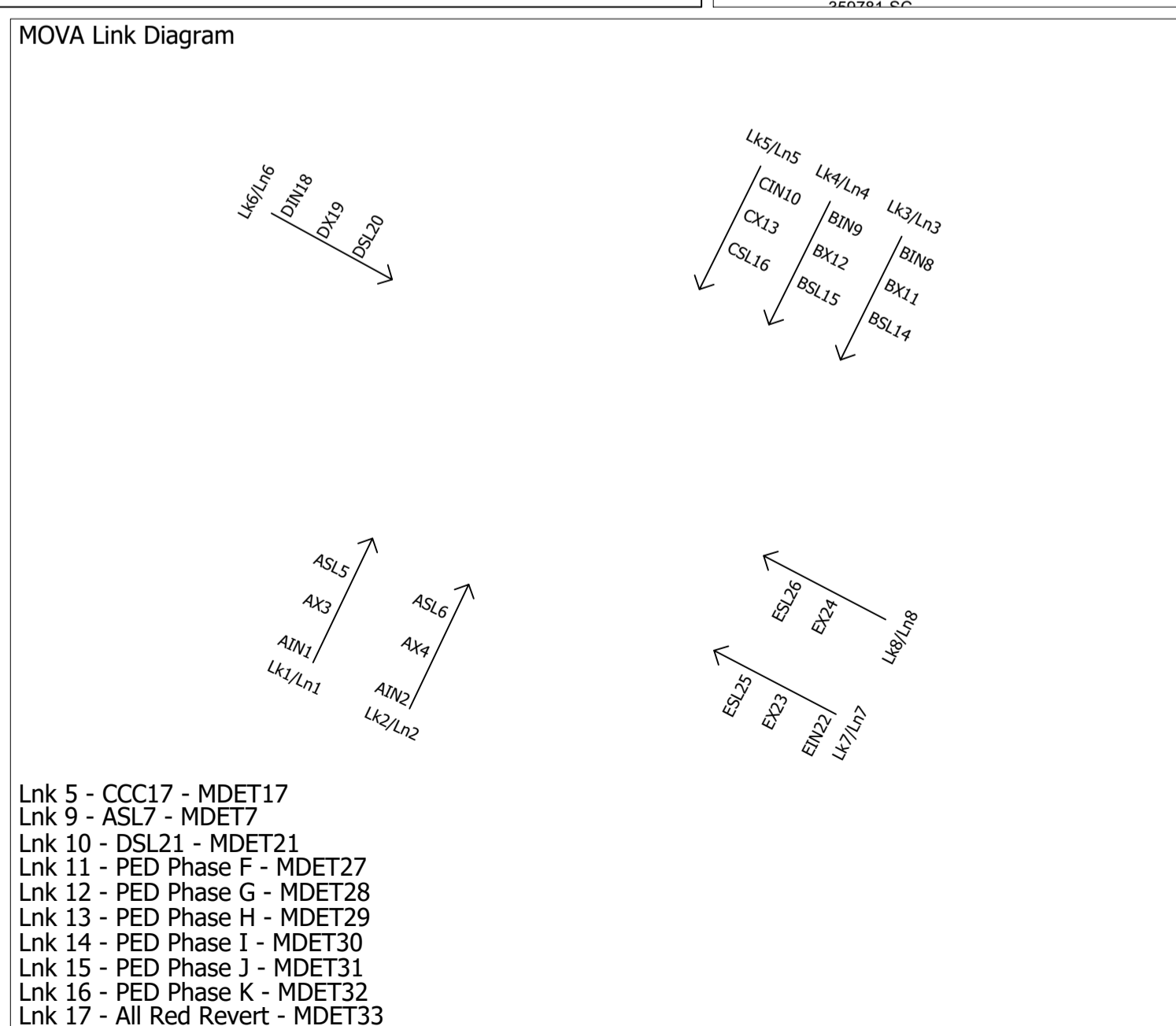
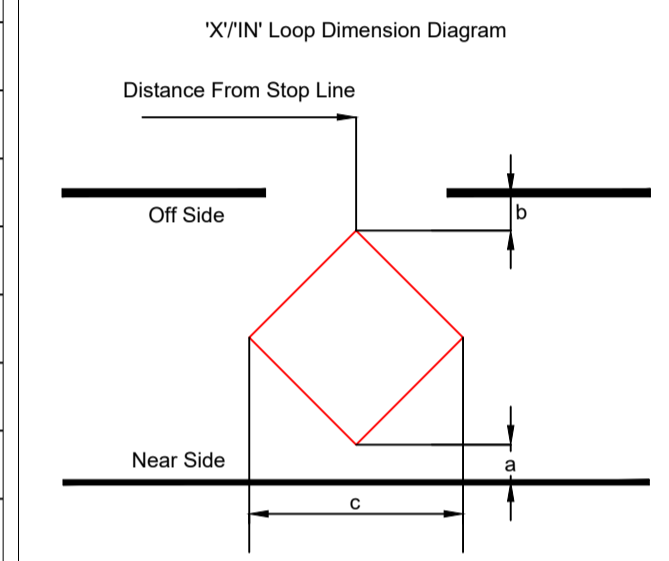
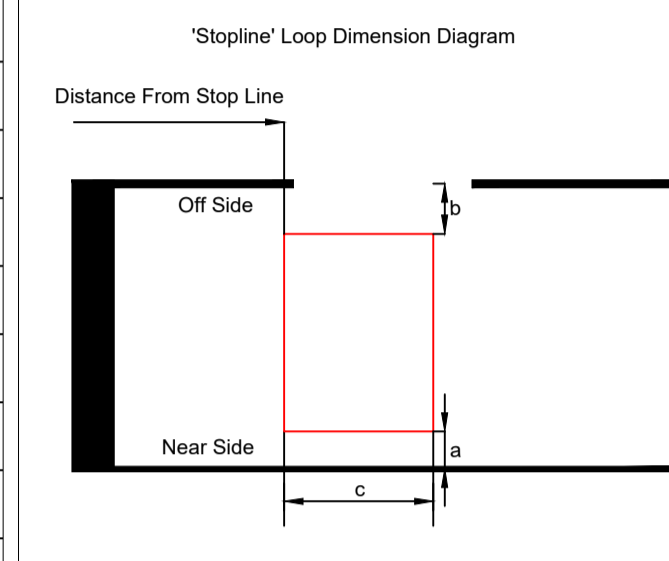
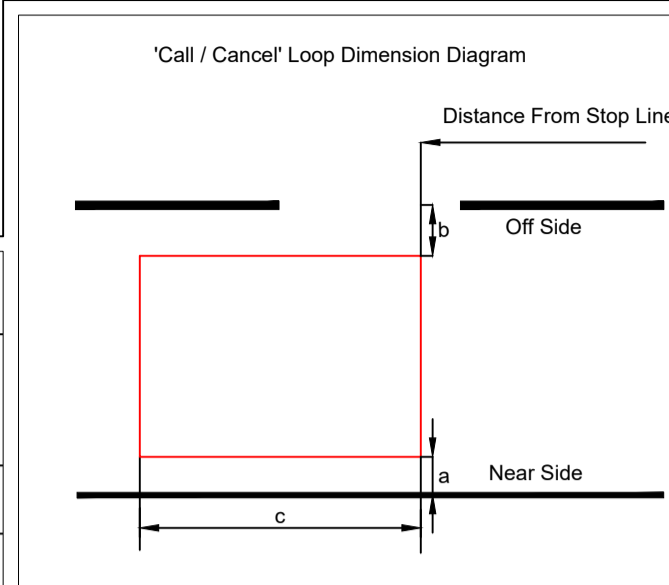


Existing 6 x 100mm ducts to be retained between Controller and Controller Chamber. Existing 6 x 100mm ducts to be retained between Termination Cabinet and Chamber.

- Notes:**
1. Controller to be a Large Case Telent OPTIMA ELV installed on a NAL Controller Cabinet Base with integral iMOVA and Remote Monitoring. Suitable SIM card to be provided by SMBC.
  2. 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.
  3. All poles, traffic signal controller and termination cabinet are to be Black in colour.
  4. Pole numbers are to be Black on a Yellow background.
  5. The signal heads should be LED and both the signals and controller shall be ELV (Extra Low Voltage).
  6. The photocell for dimming shall be located on a signal head on pole 1 where it will not be affected by street lighting.
  7. Refer to 359781-RM drawing for all road marking information.
  8. All puffin units are to be narrow field of view type.
  9. 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.
  10. All new duct chambers are to have a grade B composite lid with steel frames and will have 150mm concrete bed and surround.
  11. Ducting from RS115 NAL units to adjacent chamber are to be 1x100mm unless indicated otherwise. All other runs shall be as indicated by number.
  12. Existing Black 50mm duct to be retained between electrical feeder pillar and controller for electricity supply.
  13. Ducting is based on survey carried out in May 2023
  14. Drawing to be read in conjunction with the works specification and drawings:
- 359781-TS01  
359781-CV01  
359781-CV02  
359781-CV03  
359781-CV04

**MOVA / VA Loop Dimensions**

Loop Name	Distance From Stopline	Distance From Near Side (a)	Distance From Off Side (b)	Loop Length (c)	Loop Type
BIN8	85m	0.4m	0.8m	1.7m	MOVA Diamond
BIN9	85m	0.8m	0.8m	1.7m	MOVA Diamond
CIN10	85m	0.8m	0.4m	1.7m	MOVA Diamond
BX11	40m	0.4m	0.8m	1.7m	MOVA Diamond
BX12	40m	0.8m	0.8m	1.7m	MOVA Diamond
CX13	40m	0.8m	0.4m	1.7m	MOVA Diamond
BSL14	2m	0.4m	0.8m	2.0m	Stopline Rectangle
BSL15	2m	0.8m	0.8m	2.0m	Stopline Rectangle
CSL16	2m	0.8m	0.4m	2.0m	Stopline Rectangle
CCC17	11m	N/A	N/A	3.0m	Rectangle Call / Cancel
DIN18	65m	0.4m	0.6m	1.7m	MOVA Diamond
DX19	30m	0.4m	0.6m	1.7m	MOVA Diamond
DSL20	2m	0.4m	0.8m	2.0m	Stopline Rectangle
DSL21	2m	0.8m	0.6m	2.0m	Stopline Rectangle
EIN22	65m	0.4m	0.6m	1.7m	MOVA Diamond
EX23	30m	0.4m	0.8m	1.7m	MOVA Diamond
EX24	30m	0.8m	0.6m	1.7m	MOVA Diamond
ESL25	2m	0.4m	0.8m	2.0m	Stopline Rectangle
ESL26	2m	0.8m	0.6m	2.0m	Stopline Rectangle



- Hazards**
1. Underground HV Cables within the vicinity of works.
  2. Underground LV Cables within the vicinity of works.
  3. Gas Mains within the vicinity of works.
  4. Underground BT Cables within the vicinity of works.
  5. Underground Virgin Media Cables within the vicinity of works.
  6. Underground Water Mains within the vicinity of works.
  7. 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.
  - Photoelectric Cell.
- 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 - Visual 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).
  - 50mm Black Duct for Electrical Feed.
  - Existing Uncontrolled Tactile Paving (Buff in colour).
  - Pedestrian Guard rail.

**ISSUED FOR CONSTRUCTION.**

Iss	Rev	Date	Description	By	CHK	APP
03	00	06/12/2023	Issue for Construction	RDG	PJS	PJS
02	00	13/11/2023	Issue for Construction	RDG	PJS	PJS
01	00	07/11/2023	First Issue	RDG	PJS	PJS

**TS02 - Wood Green Road / Myvod Road Sandwell Traffic Signal Drawing**

**Sandwell Metropolitan Borough Council**

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

Drawn: RDG CAD File Name: 359781-TS-003-Rev00 (Construction)

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Originator: RDG Checked: DSWR Approved: PJS Approval Date: 07/11/2023

DRAWING No: 359781-TS02 ISS: 03 REV: 00