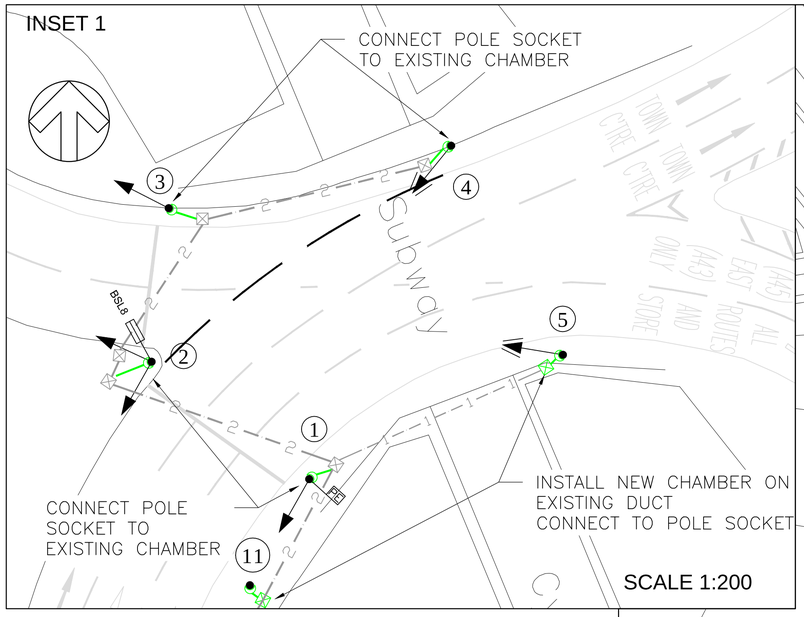
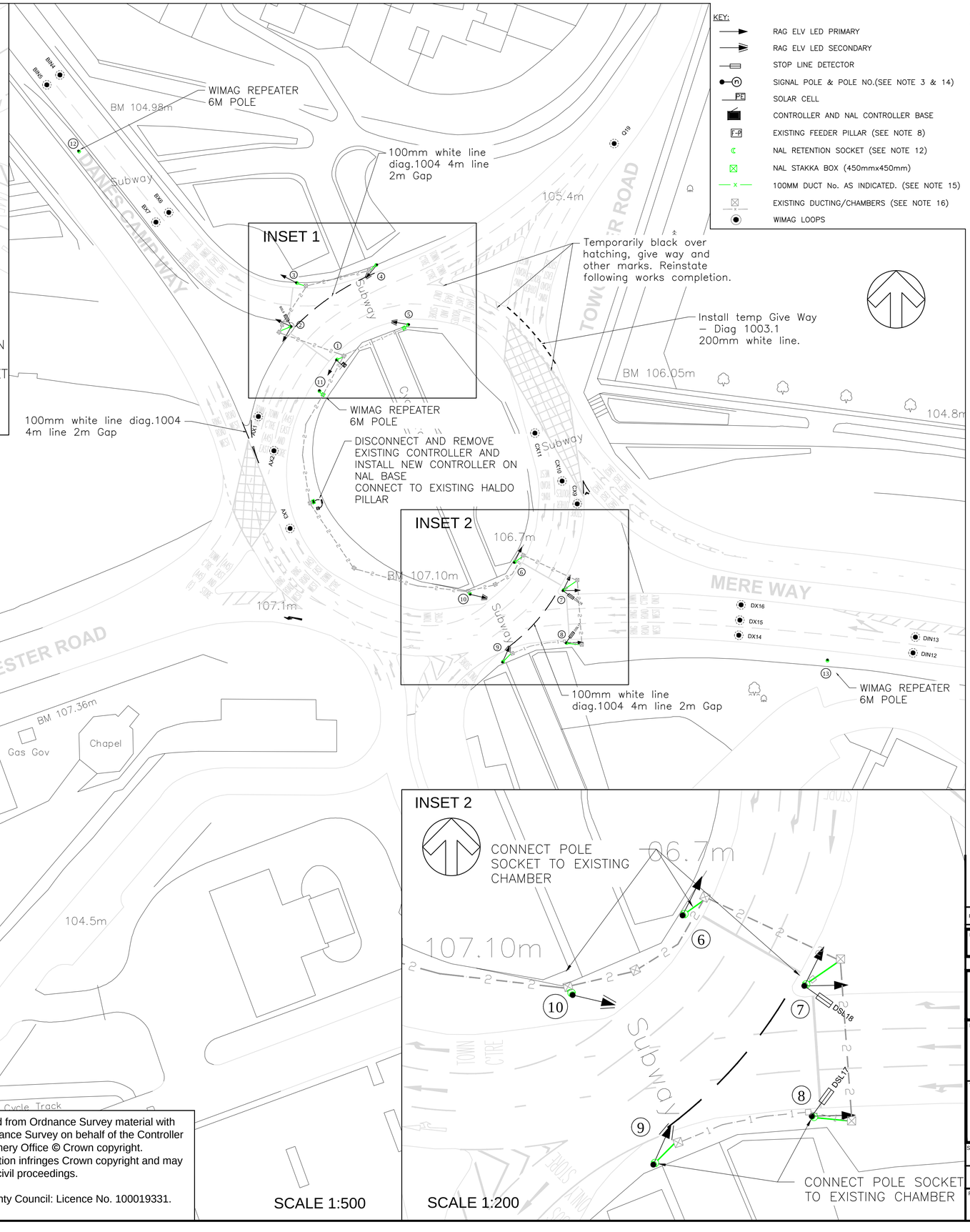




KEY:

- RAG ELV LED PRIMARY
- RAG ELV LED SECONDARY
- STOP LINE DETECTOR
- SIGNAL POLE & POLE NO.(SEE NOTE 3 & 14)
- SOLAR CELL
- CONTROLLER AND NAL CONTROLLER BASE
- EXISTING FEEDER PILLAR (SEE NOTE 8)
- NAL RETENTION SOCKET (SEE NOTE 12)
- NAL STAKKA BOX (450mmx450mm)
- 100MM DUCT No. AS INDICATED. (SEE NOTE 15)
- EXISTING DUCTING/CHAMBERS (SEE NOTE 16)
- WIMAG LOOPS

NOTES

GENERAL REQUIREMENTS

1. DRAWING TO BE READ IN CONJUNCTION WITH THE WORKS SPECIFICATION. ALL TRAFFIC SIGNAL EQUIPMENT IS TO BE COMPLY WITH NORTHAMPTONSHIRE TRAFFIC SIGNAL EQUIPMENT GENERAL REQUIREMENTS AND APPENDIX 12/5 SPECIFICATION.

2. SCHEME WILL BE CARRIED OUT IN ACCORDANCE WITH DMRB CODE OF PRACTICE.

TRAFFIC SIGNAL REQUIREMENTS

3. ALL TRAFFIC SIGNAL STREET FURNITURE TO BE BLACK IN COLOUR.
ALL 4M POLES TO BE SAPA TYPE LOW ACCESS. ALL 6M POLES TO BE 114–140MM FLUTED LOW ACCESS.

4. ALL SIGNAL HEADS TO BE ELV LED TYPE. WHERE APPLICABLE STRAIGHT POLES LOCATED 0.5M TO KERB EDGE TO BE ROTATED 45 DEG/POSITIONED TO ENSURE CORRECT CLEARANCE OF STREET FURNITURE TO EDGE OF CARRIAGEWAY.

5. ALL ABOVE GROUND DETECTION SHALL BE MOUNTED ON BRACKETS AND SHALL BE POSITIONED SO AS TO FUNCTION IN ITS PROPER MANNER.

6. THE PHOTOCELL FOR DIMMING SHALL BE LOCATED ON A SIGNAL HEAD WHERE IT WILL NOT BE AFFECTED BY STREET LIGHTING.

7. COMMUNICATION TO THE CONTROLLER WILL BE VIA GSM.

8. BLACK 50MM DUCT TO BE INSTALLED BETWEEN EXISTING HALDO PILLAR AND NEW CONTROLLER FOR ELECTRICITY SUPPLY.

9. DISCONNECT EXISTING CONTROLLER AND REMOVE ALL EQUIPMENT OFFSITE TO STORE FOR RECYCLING.

CIVILS REQUIREMENTS

10. 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.
- FOOTWAY DUCTS MIN 450MM COVER
NB–INSTALLED TO NCC STANDARD DETAILS.

11. ALL NEW DUCT AND CONTROLLER BASE CHAMBERS TO BE NAL LTD AS APPROVED BY NORTHAMPTONSHIRE HIGHWAYS TRAFFIC SIGNAL ENGINEER, CHAMBERS TO HAVE GRADE B COMPOSITE LID AND STEEL FRAMES. BOXES TO BE INSTALLED TO MANUFACTURERS INSTRUCTIONS.

12. ALL POLE RETENTION SOCKETS TO BE NAL LTD AS APPROVED BY NORTHAMPTONSHIRE HIGHWAYS TRAFFIC SIGNAL ENGINEER. TYPE AS SPECIFIED ON SETTING OUT SCHEDULE. SOCKETS TO BE INSTALLED TO MANUFACTURERS INSTRUCTIONS AT 740mm DEPTH.

13. ALL CHAMBERS LOCATED IN VERGE SHALL HAVE A 150mm CONCRETE BED AND SURROUND AND SOCKETS LOCATED IN VERGE SHALL HAVE A 1m CONCRETE BED AND SURROUND.

14. THE EXISTING POLES ARE TO BE EXCAVATED AND REMOVED. NEW POLES ARE TO BE INSTALLED AS CLOSE TO THE CURRENT POSITION AS IS FEASIBLE SUBJECT TO THE REQUIREMENTS OF THE NEW VRS.
EXACT POSITIONS OF POLES, DUCTS, ETC. SHALL BE DETERMINED ONSITE BY THE ENGINEER.

15. DUCTING FROM RS115 NAL UNITS TO ADJACENT CHAMBER AND DETECTOR LINKS ON APPROACHES TO BE 1x100MM UNLESS INDICATED OTHERWISE. ALL OTHER RUNS SHALL BE AS INDICATED BY NUMBER.

16. EXISTING DUCTING INDICATED SHALL BE PROVED AND MADE FIT FOR PURPOSE AND REPLACED WHERE NECESSARY.
REFER TO R3076–TS–005 FOR DUCT CONDITION DETAILS.

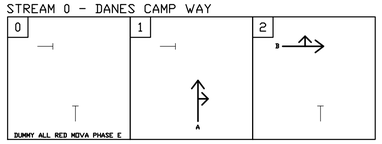
POLE AND SOCKET TYPE AND SETTING OUT DETAILS

POLE NUMBER	POLE TYPE	DISTANCE–POLE FACE TO STOP LINE	DISTANCE–POLE FACE TO KERB EDGE	NAL RETENTION SOCKET TYPE
1	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
2	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
3	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
4	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
5	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
6	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
7	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
8	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
9	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
10	4m SAPA	SEE NOTE 14		RSII5 Duck Foot
11	6m low access	7m	2m	RSII5 Duck Foot
12	6m low access	60m	1m	RSII5 Duck Foot
13	6m low access	60m	1m	RSII5 Duck Foot

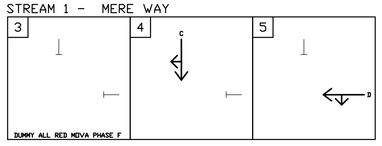
LOOP DETAILS

LOOP NUMBER	APROXIMATE LOCATION (FSL)	DISTANCE FROM NEARSIDE (a)	DISTANCE FROM OFFSIDE (b)	LOOP WIDTH (c)	LOOP TYPE
AX1	17m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
AX2	24m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
AX3	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
BIN4	80m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
BIN5	80m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
BX6	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
BX7	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
BSL8	POLE 2	STOP LINE ABOVE GROUND DETECTOR			
CX9	15m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
CX10	20m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
CX11	30m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
DIN12	80m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
DIN13	80m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
D14	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
DX15	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
DX16	40m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			
DSL17	POLE 8	STOP LINE ABOVE GROUND DETECTOR			
DSL18	POLE 7	STOP LINE ABOVE GROUND DETECTOR			
Q19	60m	WIMAG LOOPS TO BE INSTALLED TO MANUFACTURERS REQUIREMENTS			

STREAM 0 – DANES CAMP WAY



STREAM 1 – MERE WAY



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REV	DATE	BY	DESCRIPTION	CHK	APD
E	11.08.16	PAR	White lining added for WJ's	TS	GH
D	28.07.16	PAR	Detector numbering/staging altered	TS	GH
C	27.07.16	PAR	Drawings amended	TS	GH
B	26.07.16	PAR	WiMag poles added, ducting updated	TS	GH
A	20.06.16	PAR	First Issue	TS	GH

DRAWING STATUS: CONSTRUCTION

Northamptonshire Highways

PROJECT: MERE WAY TO WOOTTON HALL ACCESS IMPROVEMENTS

TITLE: TRAFFIC SIGNAL MODIFICATIONS ORN 143 MERE WAY/DANES CAMP WAY DETAILED LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	TS	GH
	DESIGN-DRAWN: PAR	DATE: 20th June 2016
PROJECT No: S1629R3076	DRAWING No: R3076-TS-004	REV: E