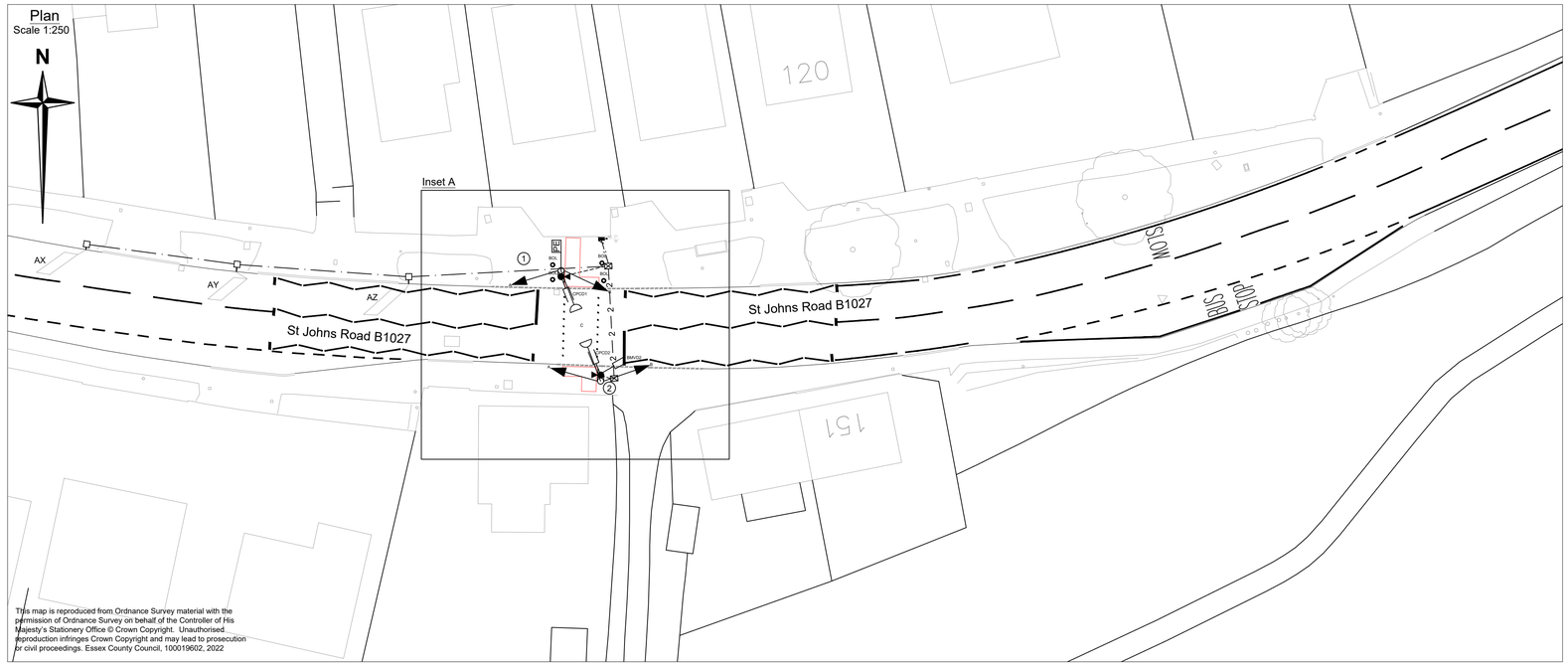
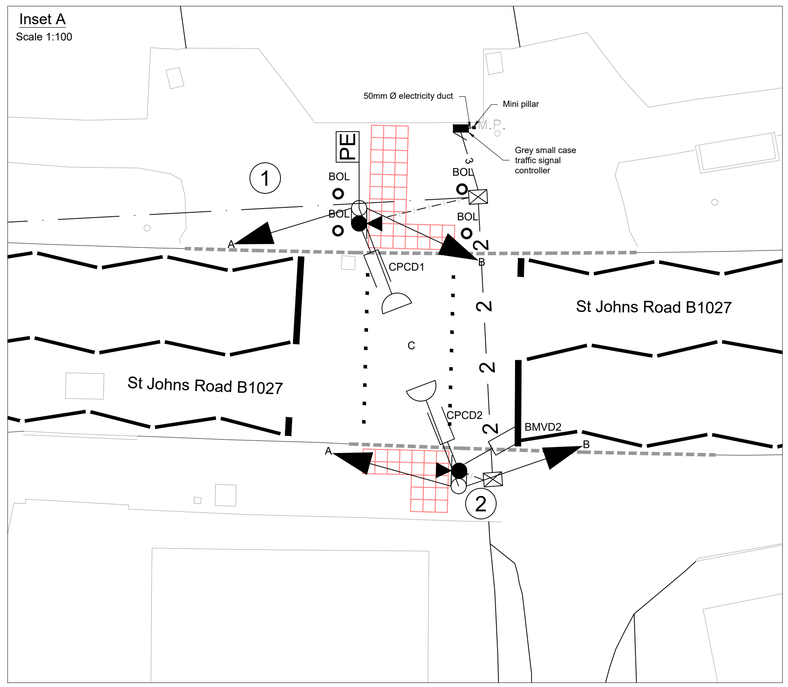
## Plan
Scale 1:250






## Inset A
Scale 1:100




## SIGNAL NOTES

1. Do not scale from this drawing.
2. All dimensions in metres unless otherwise stated.
3. Grey (small case) ELV Traffic Signal Controller to be installed at this site.
4. All signal heads to be ELV LED.
5. Primary signal heads on poles 1 & 2 to be side mounted away from kerb.
6. Secondary signal heads on poles 1 & 2 to be side mounted away from kerb
7. ELV Photo Electric cell to be installed on Pole 1.
8. All new signal poles to be grey in colour and labelled with an identification number.
9. All new signal poles to have low level signal terminations with 114mm base and vented pole cap.
10. Low level access poles 1 & 2 shall have the access door orientated away from the kerb and facing towards the back of the footway.
11. New signal poles 1 & 2 to be installed in shallow NAL RS115F pole retention sockets.
12. Push button unit to be mounted on poles 1 & 2 and angled so parallel to line of kerb face.
13. Tactile rotating cones to be installed in all pushbutton units.
14. Audibles to be installed in push button unit on poles 1 & 2.
15. Audibles to be timetabled to be switched off between 22:00Hrs and 07:00 Hrs.
16. All above ground detection must have clear visibility of the detection zone for full functionality, through use of brackets as necessary.
17. All timings on this drawing are minimums unless otherwise stated.
18. Red lamp monitoring to be installed at this site.
19. The latest version of OMCU and router compatible with Essex Highways' remote monitoring in-station equipment using 4G communications to be installed in controller.
20. 4G SIM card is to be provided by Essex Highways for OMCU..
21. The absolute minimum clearance from all street furniture to the edge of the carriageway shall be 460mm.
22. All stop lines to be 200mm wide.
23. All bollards to be NAL X-last standard bollards unless otherwise stated.
24. The dropped kerb detail and tactile paving layout satisfies the requirements as set out in 'The Guidance on the use of Tactile Paving Surfaces' published by DfT.
25. The accuracy of this drawing cannot be guaranteed for the setting out of the civils works.
26. For construction and setting out details refer to the following drawings:-
    Site Clearance Drawing No. 685616-04PX06-02-001
    Traffic Signal Ducting Works Drawing No. 685616-04PX06-05-001
    Kerbing & Footway Works Drawing No. 685616-04PX06-11-001
    Traffic Signs & Road Markings Drawing No.685616-04PX06-12-001

## SIGNAL KEY

- 3 aspect signal head with primary hoods
- Farside pedestrian 2-aspect signal head
- Push button unit (see note 12)
- Pedestrian on-crossing detector (PCD)
- Microwave vehicle detector (MVD)
- Photo Electric Cell
- 4m straight low level access pole
- Pole number
- Grey Traffic Signal Controller (small case)
- Vehicle detector loops
- 600 x 450mm traffic signal chamber
- 450 x 450mm joint box
- Pedestrian studs
- Drop kerbs
- 100mm Ø rigid orange duct
- 2 x 100mm Ø rigid orange duct
- 100mm Ø orange flexible duct
- 50mm Ø orange electricity duct
- Electricity Supply Mini Pillar
- Red tactile paving (extent only shown on 1:250)
- Bollard NAL X-last Standard Bollard (NUVO)

## POLE SCHEDULE

| Pole number | Pole type | Primary signal heads | Closely associated secondary signal heads | Far side pedestrian 2-aspect signal aspect | Other equipment | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PE Cell | Audibles | Tactile rotating cones | Push Button Unit | Pedestrian Crossing Detector (PCD) | Microwave Vehicle Detector (MVD) |
| 1 | 4.0m swan neck level access | A (side mounted aw ay from kerb) | B (side mounted aw ay from kerb) | C | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 2 | 4.0m swan neck level access | B (side mounted aw ay from kerb) | A (side mounted aw ay from kerb) | C | | ✓ | ✓ | ✓ | ✓ | ✓ |

## 04P06 PED-X FARSIDE CROSSING TIMINGS

| Period | Signal to vehicle | Signal to pedestrians | Duration (seconds) |
|---|---|---|---|
| 1 | GREEN | RED | 7 |
| 2 | AMBER | RED | 3 |
| 3 | RED | RED | 2 |
| 4 | RED | GREEN | 7 |
| 5 | RED | FIXED BLACKOUT | 3 |
| 6a | RED | EXTENDABLE BLACKOUT | 3 |
| 6b | RED | BLACKOUT TO MAX | 3 |
| 7 | RED | RED | 1 |
| 8 | RED/AMBER | RED | 2 |

| | Vehicle extension | Speed extension | Max. vehicle Green Off Peak | Peak |
|---|---|---|---|---|
| Vehicle phase | 1.6 (A) 0.2 (B) | N/A | 20 | 30 |

Pedestrian All Red crossing extension interval (PCD) 2.0 seconds.
Pedestrian timings calculated in accordance with TSM Chapter 6.

## DETECTOR FUNCTION TABLE

| Detector label | Distance from stop line (m) | Phase (s) demanded | Phase (s) extended | All Red extended | Detector Type | Loop Dimensions | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | A | B | C |
| AX | 39 | A | A | - | Loop | 0.5 | 1.1 | 0.5 |
| AY | 25 | A | A | - | Loop | 0.5 | 1.1 | 0.5 |
| AZ | 12 | A | A | - | Loop | 0.5 | 1.1 | 0.5 |
| BMVD2 | - | B | B | - | Above ground detector | - | - | - |
| PEDC1 | - | C | - | - | Push button | - | - | - |
| PEDC2 | - | C | - | - | Push button | - | - | - |
| CPCD1 | - | - | - | C | Above ground detector | - | - | - |
| CPCD2 | - | - | - | C | Above ground detector | - | - | - |

## POLE SETTING OUT DETAILS

| Pole number | Socket type | Distance from kerb face (m) | Longitudinal distance (m) |
|---|---|---|---|
| 1 | NAL RS115F | 0.95 | 0.40 from tactile paving |
| 2 | NAL RS115F | 0.75 | 0.40 from tactile paving |

| | INITIALS | DATE |
|---|---|---|
| INTGRN CALC | TRH | 22/05/23 |
| INTGRN CHECK | TG | 04/07/23 |

| MAINTENANCE PARKING REQUIREMENTS |
|---|
| MAINTENANCE VEHICLES MAY PARK ON CONSTABLE AVENUE |

Essex County Council
Road Safety Audit Stamp

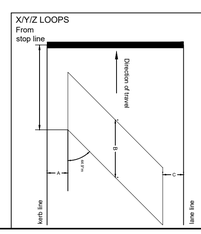
| Company: | | |
|---|---|---|
| Reference No: | | Stage |
| Initials | Date | Comments |
| | | |
| | | |

Essex County Council
Highways and Transportation Department
Network Policy

SIGNAL APPROVAL

| Approval No. | | |
|---|---|---|
| | Signature | Date |
| Checked Design and Layout | | |
| ECC Approved | | |

X/Y/Z LOOPS




## SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant risks:

**CONSTRUCTION**

Ref. 2.1 High Voltage (HV) cable in the northern footway running west to east, with a carriageway crossing north to south, then through the footpath between properties 155 and 153.
HV cable from the northern footway crossing west of the traffic signal into the southern footway running west to east and down the footpath between properties 155 and 153.
HV cable running west to east in the southern footway.

Ref. 2.2 Low Voltage (LV) cable running throgh the northern side of the carriageway west to east with a road crossing north to south, which carries on along the footpath between properties 153 and 155.

Ref. 2.4 Intermediate Pressure (IP) main running along the kerb line on the southern side of the footway.

Ref 2.5 Two Low Pressure (LP) mains in the northern footway running east to west.

Ref 2.7 Distribution main (Cast Iron) in the northern footway running west to east.
Distribution main (Spur Iron) in the southern footway running west to east.
There is a road crossing (linking the two distribution mains mentioned above) running north (with a fitting*) to south and continuing along the footpath.
ASPESTOS main in the northern footway running west to east.

Ref 2.11 There are street lighting cables and apparatus in the footways on both sides of the carriageway.

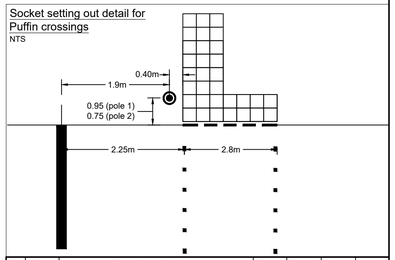
MAINTENANCE / CLEANING

OPERATING

DEMOLITION / ADAPTATION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Should the Contractor or other party undertaking the works require any further information and/or clarifications in respect of the Residual Risks associated with the construction of this project, then the Contractor shall contact the Overseeing Organisation for the Works.

Socket setting out detail for Puffin crossings
NTS




| Rev. | Date | Description of revision | Drawn | Checked | Review'd | Approv'd |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

DRAWING STATUS
**FOR APPROVAL**

Essex Highways

Essex Highways, Seax House, Victoria Road South, Chelmsford, CM1 1QH.
Tel: 0345 6037631



SCHEME TITLE
**04PX06**
**B1027 ST JOHNS ROAD EAST OF CONSTABLE AVENUE, CLACTON**

DRAWING TITLE
**FARSIDE PEDESTRIAN CROSSING SIGNAL APPROVAL DRAWING**

| DESIGNED | DRAWN | CHECKED | REVIEWED | APPROVED |
|---|---|---|---|---|
| TRH | FD | TG | TG | ARF |
| DATE 06/04/23 | DATE 06/04/23 | DATE 26/07/23 | DATE 26/07/23 | DATE 28/07/23 |

DRAWING UNITS U.N.O.
DIMENSIONS IN MILLIMETRES
LEVELS IN METRES

SCALE AT A1 (841X594mm)
As detailed

DRAWING No.
**685616-04PX06-51-001**

REV.
**-**

RINGWAY JACOBS integrated expertise

Essex County Council