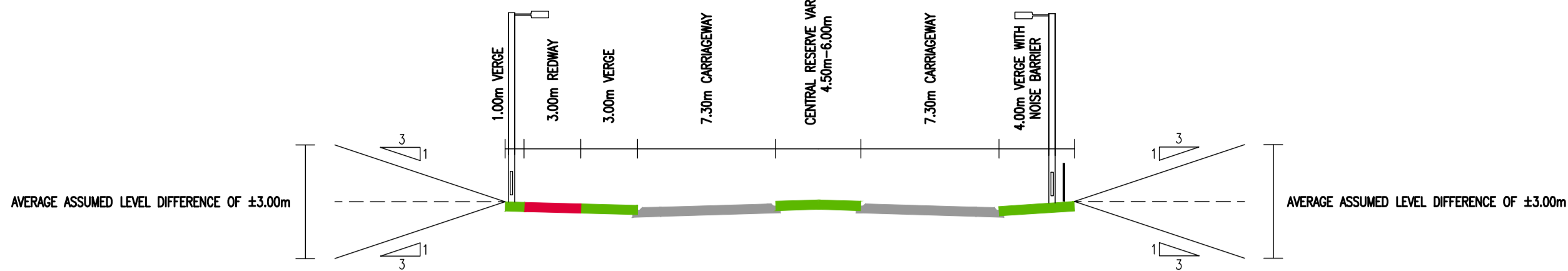


ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 30.1m – 31.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



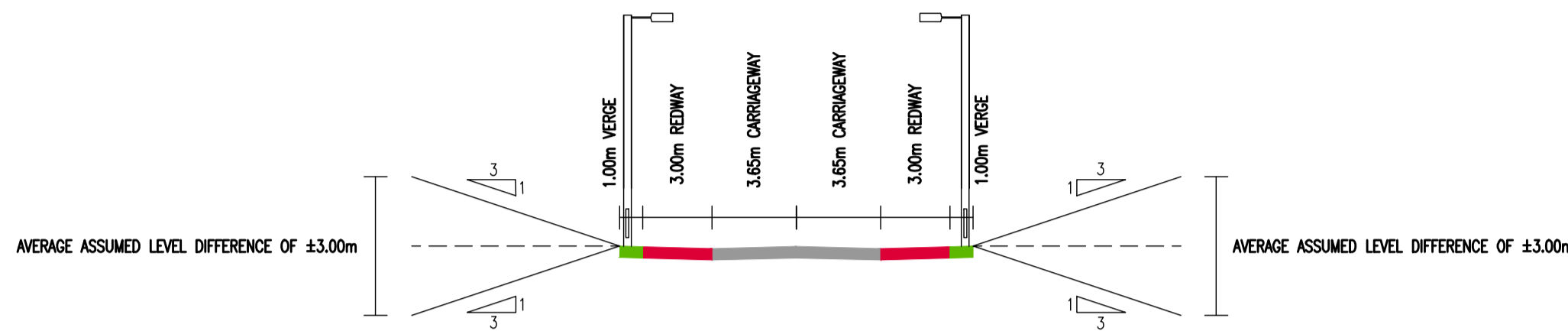
APPLIES TO:
LINK 107 (LINK U)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

- NOTES:
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
 - ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKC/1100/005A – REDWAY CONSTRUCTION DETAILS.
 - OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SIGNS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (15.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

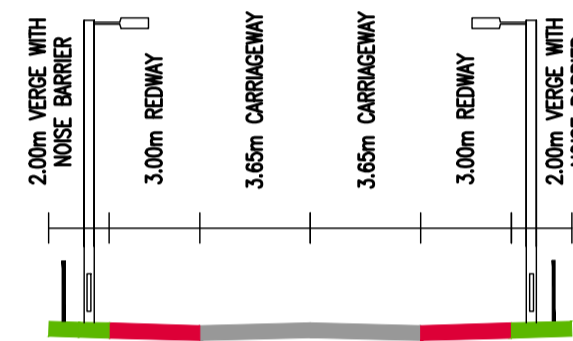


APPLIES TO:
LINK 108 (EXISTING A509)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LINK 108 LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LINK 110 LIGHTING CLASS M4 (EQUIVALENT 10 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (17.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



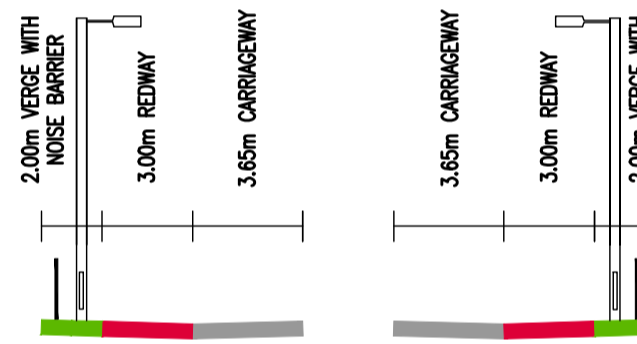
APPLIES TO:
LINK 108 (EXISTING A509)

NOISE FENCE BOTH SIDES.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (NOISE FENCE EITHER LEFT OR RIGHT)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 108 (EXISTING A509)

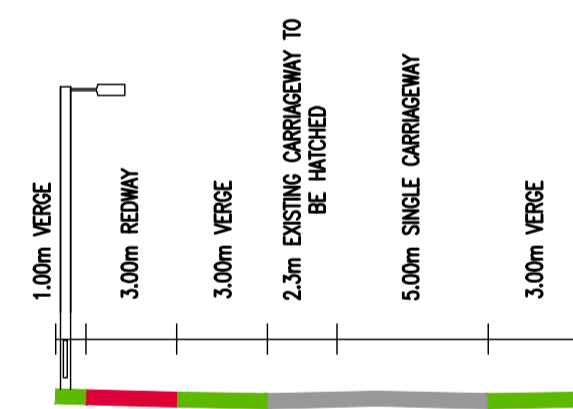
NOISE FENCE EITHER LEFT OR RIGHT.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (17.3m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

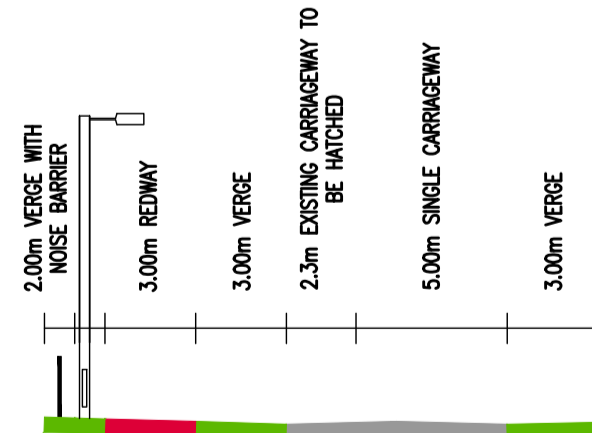


APPLIES TO:
LINK 109 (EXISTING TONGWELL STREET)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (18.3m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

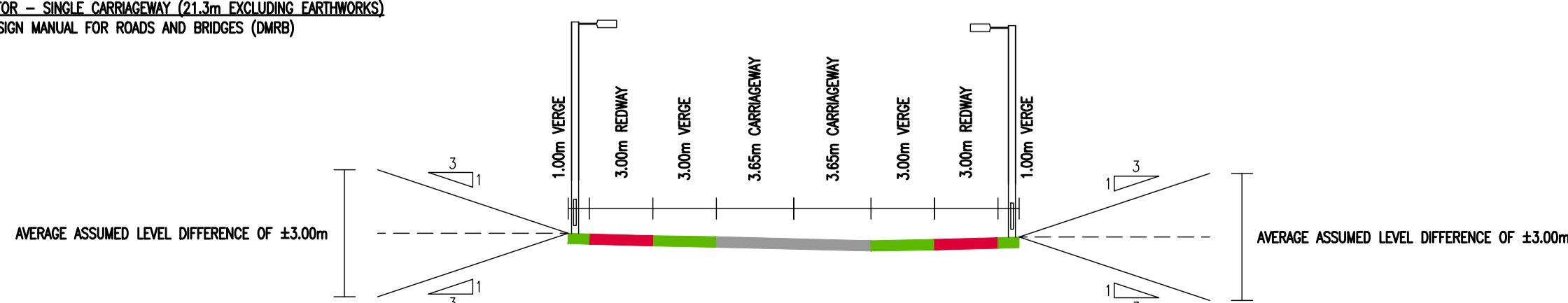


APPLIES TO:
LINK 109 (EXISTING TONGWELL STREET)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (21.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 110 (LINK B1)

40m CORRIDOR WIDTH TO BE SAFEGUARDED FOR LINK 110 ONLY TO ALLOW FOR DUALING IN THE FUTURE.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LINK 108 LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LINK 110 LIGHTING CLASS M4 (EQUIVALENT 10 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

INDICATIVE CARRIAGEWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	40mm	SMA (SMA 14 SURF 40/60)
BINDER COURSE	60mm	HDM (AC20 HDM BIN 40/60)
BASECOURSE	250mm	HDM (AC32 HDM BASE/BIN40/60)
SUB-BASE	150mm	TYPE 1 MATERIAL
CAPPING	450mm	6F2 MATERIAL

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

INDICATIVE REDWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	25mm	MACHINE LAID AC6
BINDER COURSE	50mm	AC20 TO CL. 929
BASECOURSE	70mm	AC32 TO CL. 929
SUB-BASE	300mm	TYPE 1 GRANULAR SUB-BASE 803
CAPPING	-	ADDITIONAL SUB-BASE AS REQUIRED

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	APP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	APP	SNP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

Mountbatten House, Basing View, Basingstoke, RG21 4HJ, UK
T+ 44 (0) 1256 318 800, F+ 44 (0) 1256 318 700
wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: GEOMETRY DETAILS OF INDICATIVE ROAD CROSS SECTIONS SHEET 3 OF 4

SCALE @ A1:	CHECKED:	APPROVED:	
1:250	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	GLG	GLG	March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-0103 REV: P02

© WSP UK Ltd