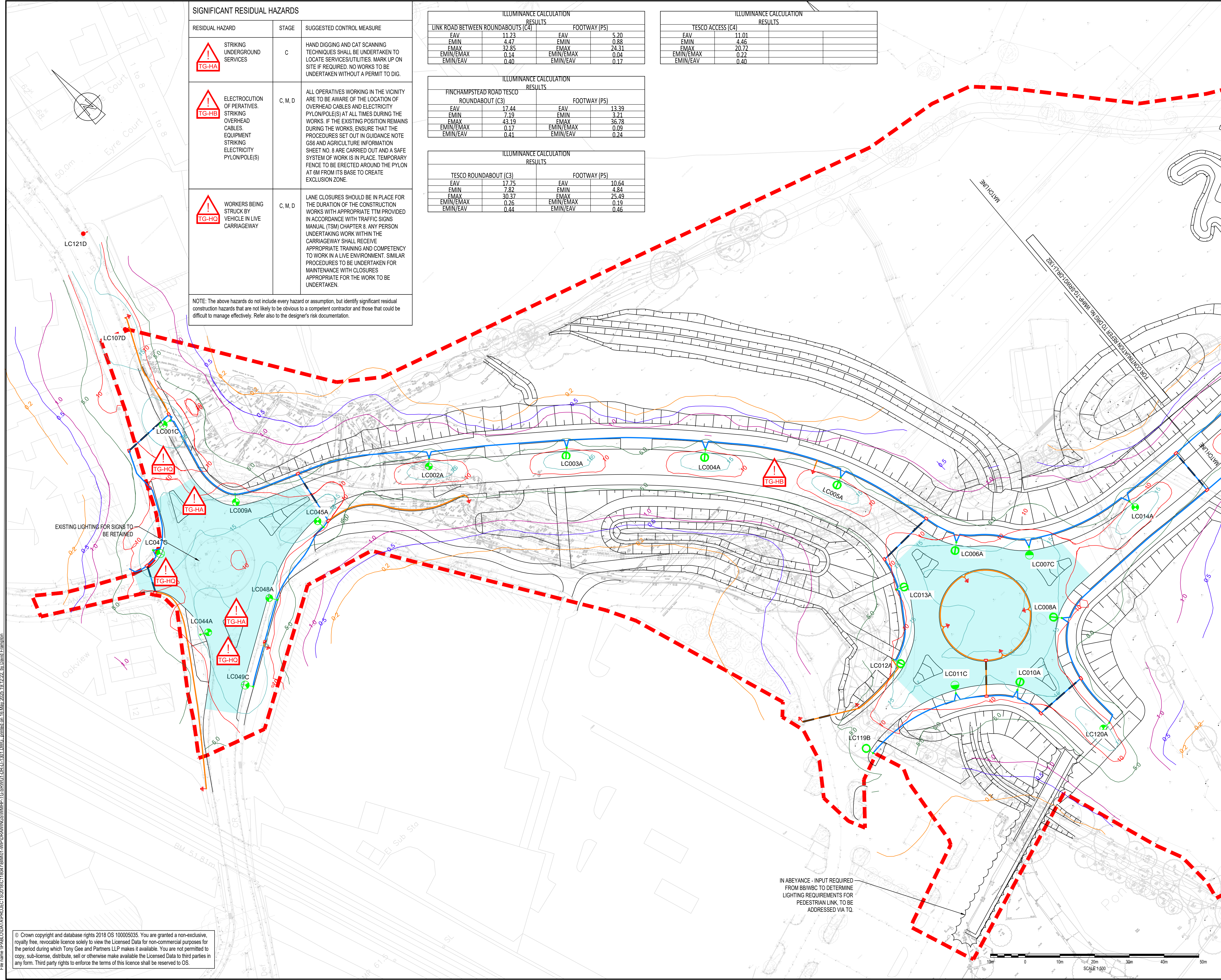




File name: IP:\A\B\O\DATA\PROJECTS\2018\011847\BIN\01-WP\DRAWINGS\WMHP-TG-SRWG1-DR-LI-1301.DWG, printed on: 18 May 2025 15:22:22, by: David Frampton

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SIGNIFICANT RESIDUAL HAZARDS		
RESIDUAL HAZARD	STAGE	SUGGESTED CONTROL MEASURE
 STRIKING UNDERGROUND SERVICES	C	HAND DIGGING AND CAT SCANNING TECHNIQUES SHALL BE UNDERTAKEN TO LOCATE SERVICES/UTILITIES. MARK UP ON SITE IF REQUIRED. NO WORKS TO BE UNDERTAKEN WITHOUT A PERMIT TO DIG.
 ELECTROCUTION OF PERATIVES. STRIKING OVERHEAD CABLES. EQUIPMENT STRIKING ELECTRICITY PYLON/POLE(S)	C, M, D	ALL OPERATIVES WORKING IN THE VICINITY ARE TO BE AWARE OF THE LOCATION OF OVERHEAD CABLES AND ELECTRICITY PYLON/POLE(S) AT ALL TIMES DURING THE WORKS. IF THE EXISTING POSITION REMAINS DURING THE WORKS, ENSURE THAT THE PROCEDURES SET OUT IN GUIDANCE NOTE GS6 AND AGRICULTURE INFORMATION SHEET NO. 8 ARE CARRIED OUT AND A SAFE SYSTEM OF WORK IS IN PLACE. TEMPORARY FENCE TO BE ERECTED AROUND THE PYLON AT 6M FROM ITS BASE TO CREATE EXCLUSION ZONE.
 WORKERS BEING STRUCK BY VEHICLE IN LIVE CARRIAGEWAY	C, M, D	LANE CLOSURES SHOULD BE IN PLACE FOR THE DURATION OF THE CONSTRUCTION WORKS WITH APPROPRIATE TTM PROVIDED IN ACCORDANCE WITH TRAFFIC SIGNS MANUAL (TSM) CHAPTER 8. ANY PERSON UNDERTAKING WORK WITHIN THE CARRIAGEWAY SHALL RECEIVE APPROPRIATE TRAINING AND COMPETENCY TO WORK IN A LIVE ENVIRONMENT. SIMILAR PROCEDURES TO BE UNDERTAKEN FOR MAINTENANCE WITH CLOSURES APPROPRIATE FOR THE WORK TO BE UNDERTAKEN.
NOTE: The above hazards do not include every hazard or assumption, but identify significant residual construction hazards that are not likely to be obvious to a competent contractor and those that could be difficult to manage effectively. Refer also to the designer's risk documentation.		

ILLUMINANCE CALCULATION RESULTS			
LINK ROAD BETWEEN ROUNDABOUTS (C4)		FOOTWAY (P5)	
EAV	11.23	EAV	5.20
EMIN	4.47	EMIN	0.88
EMAX	32.85	EMAX	24.31
EMIN/EMAX	0.14	EMIN/EMAX	0.04
EMIN/EAV	0.40	EMIN/EAV	0.17

ILLUMINANCE CALCULATION RESULTS			
FINCHAMPSTEAD ROAD TESCO ROUNDABOUT (C3)		FOOTWAY (P5)	
EAV	17.44	EAV	13.39
EMIN	7.19	EMIN	3.21
EMAX	43.19	EMAX	36.78
EMIN/EMAX	0.17	EMIN/EMAX	0.09
EMIN/EAV	0.41	EMIN/EAV	0.24

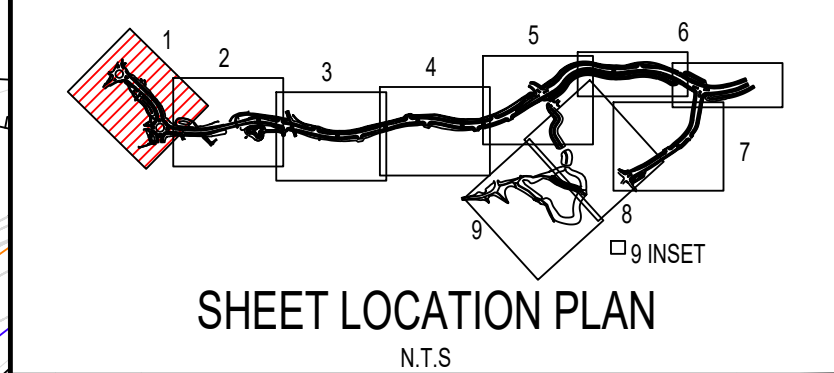
ILLUMINANCE CALCULATION RESULTS			
TESCO ROUNDABOUT (C3)		FOOTWAY (P5)	
EAV	17.75	EAV	10.64
EMIN	7.82	EMIN	4.84
EMAX	30.37	EMAX	25.49
EMIN/EMAX	0.26	EMIN/EMAX	0.19
EMIN/EAV	0.44	EMIN/EAV	0.46

ILLUMINANCE CALCULATION RESULTS			
TESCO ACCESS (C4)			
EAV	11.01		
EMIN	4.46		
EMAX	20.72		
EMIN/EMAX	0.22		
EMIN/EAV	0.40		

DO NOT SCALE

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SPECIFICATION WMHP-TG-SRWG1-SP-LI-1301 AND DRAWING WMHP-TG-SRWG1-DR-LI-1321
 - ROAD LIGHTING DESIGNED TO CE4 FOR THE MAINLINE DUE TO HORIZONTAL CURVE <500m AND CE3 FOR TWO JUNCTION CONFLICT ZONES IDENTIFIED.
 - ALL LUMINAIRES SHALL BE WARM WHITE 3000K.
 - FOOTWAY LIGHTING DESIGNED TO P5 AT MINIMUM.
 - THE COLUMNS TO BE FITTED WITH SCREENS/BAFFLES TO MEET ECOLOGICAL REQUIREMENTS HAVE BEEN IDENTIFIED IN THE SCHEDULE CLO TO BE DISABLED ON ALL LUMINAIRES
 -

- LEGEND
- RED LINE BOUNDARY
 - EXISTING LIGHTING COLUMN TO BE RETAINED. MF = 0.74
 - 8m POST TOP COLUMN, WITH 1x DW WINDSOR KIRIUM PRO2 48 LED 3k A1 CLO 400mA 7.63km 51W UMSUG LUMINAIRE. MF = 0.85
 - 8m COLUMN 1.5m BRACKET ARM, WITH 1x DW WINDSOR KIRIUM PRO2 48 LED 3k A1 CLO 400mA 7.63km 51W UMSUG LUMINAIRE. MF = 0.85
 - 8m POST TOP COLUMN WITH 1x DW WINDSOR KIRIUM PRO2 64 LED 3k A5 CLO 750mA 15.86km 125W UMSUG LUMINAIRE. MF = 0.85
 - 10m POST TOP COLUMN, WITH 1x DW WINDSOR KIRIUM PRO2 48 LED 3k A1 CLO 400mA 7.63km 51W UMSUG LUMINAIRE. MF = 0.85
 - 10m POST TOP COLUMN WITH 1x DW WINDSOR KIRIUM PRO2 64 LED 3k A5 CLO 750mA 15.86km 125W UMSUG LUMINAIRE. MF = 0.85
 - 6m POST TOP COLUMN WITH 1x DW WINDSOR KIRIUM PRO2 48 LED 3k C3 CLO 200mA 4.14km 27W UMSUG LUMINAIRE. MF = 0.81
 - LUMINAIRE SPECIFIED IN EASTERN GATEWAY DESIGN PACKAGE
 - 2No. 50mm Ø ORANGE DUCTS U.N.O. FOR ELECTRICITY SUPPLY TO ILLUMINATED SIGNS.
 - DUCTED LIGHTING CIRCUIT.
 - 2No. 100mm Ø ORANGE DUCTS U.N.O.
 - 900mm x 600mm DRAWPIT.
 - LUX CONTOURS.
 - CONFLICT AREA.



REVISIONS					
REV	DATE	BY	DESCRIPTION	CHK	APP
P07	16/05/2025	JB	UPDATED FOR PLANNING CONDITION DISCHARGE	DJF	JC
P06	19/01/2024	JB	ROUNDABOUT VE UPDATE	DJF	JC
P05	02/06/2022	HD	MATTERS OUTSTANDING WMHP-TG-SRWG1-RG-DM-0010	BH	JC
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:			SUITABLE FOR REVIEW & COMMENT	S3
DESIGNER:			Tony Gee and Partners LLP Hardy House 140 High Street Esher, Surrey KT10 9QJ Tel: 01372 461600 www.tonygee.com Consulting Civil, Structural and Geotechnical Engineers	

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PROJECT:		SPINE ROAD AND WESTERN GATEWAY PHASE 1	
TITLE:		HIGHWAYS LIGHTING PLAN LAYOUT	
SCALE @ A1:		SHEET 1	
PROJECT NO:		WMHP-TG-SRWG1-DR-LI-1301	
DRAWING NO:		P07	