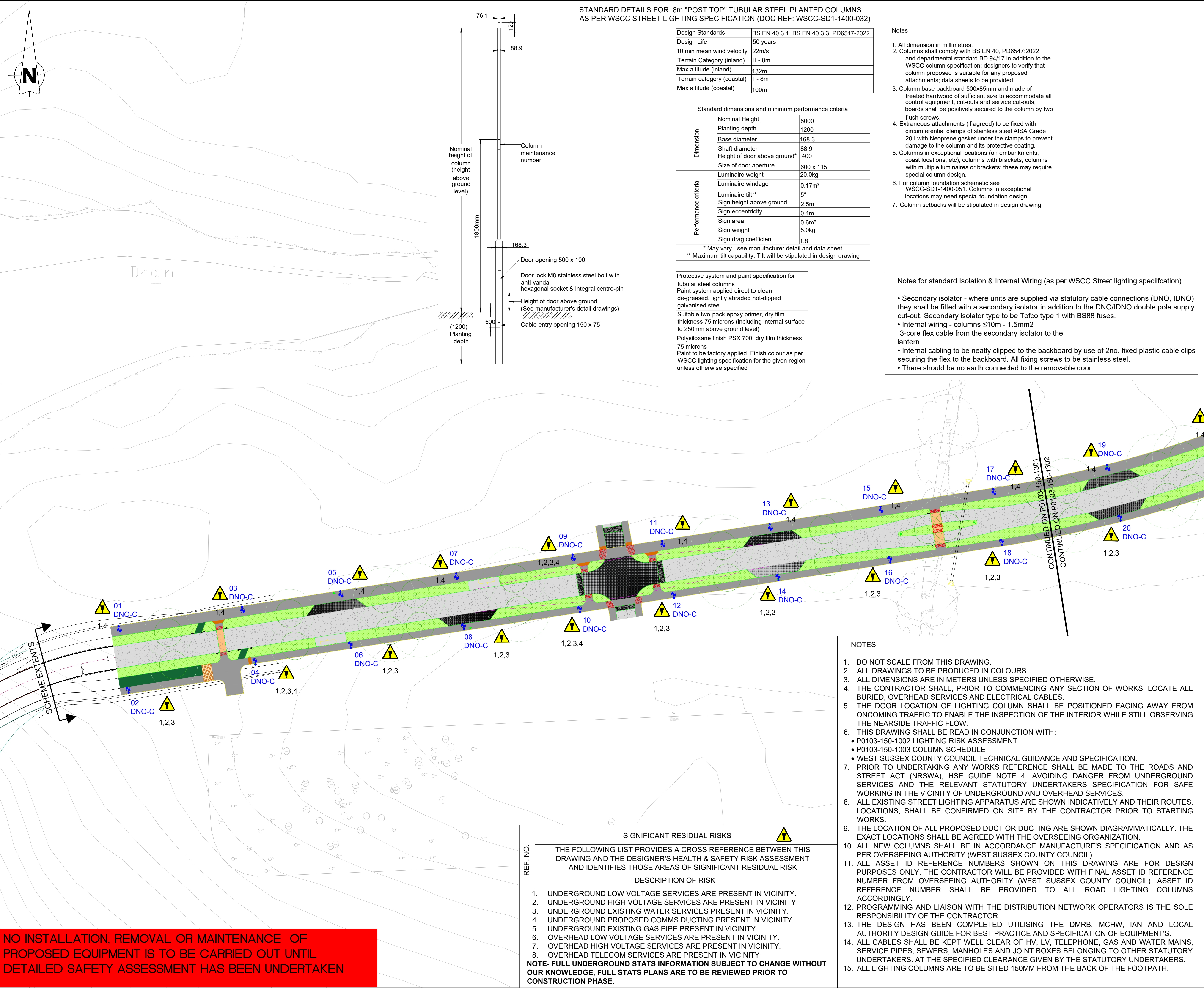




NO INSTALLATION, REMOVAL OR MAINTENANCE OF PROPOSED EQUIPMENT IS TO BE CARRIED OUT UNTIL DETAILED SAFETY ASSESSMENT HAS BEEN UNDERTAKEN

REF. NO.	SIGNIFICANT RESIDUAL RISKS
	THE FOLLOWING LIST PROVIDES A CROSS REFERENCE BETWEEN THIS DRAWING AND THE DESIGNER'S HEALTH & SAFETY RISK ASSESSMENT AND IDENTIFIES THOSE AREAS OF SIGNIFICANT RESIDUAL RISK
DESCRIPTION OF RISK	
1.	UNDERGROUND LOW VOLTAGE SERVICES ARE PRESENT IN VICINITY.
2.	UNDERGROUND HIGH VOLTAGE SERVICES ARE PRESENT IN VICINITY.
3.	UNDERGROUND EXISTING WATER SERVICES PRESENT IN VICINITY.
4.	UNDERGROUND PROPOSED COMMS DUCTING PRESENT IN VICINITY.
5.	UNDERGROUND EXISTING GAS PIPE PRESENT IN VICINITY.
6.	OVERHEAD LOW VOLTAGE SERVICES ARE PRESENT IN VICINITY.
7.	OVERHEAD HIGH VOLTAGE SERVICES ARE PRESENT IN VICINITY.
8.	OVERHEAD TELECOM SERVICES ARE PRESENT IN VICINITY
NOTE- FULL UNDERGROUND STATS INFORMATION SUBJECT TO CHANGE WITHOUT OUR KNOWLEDGE, FULL STATS PLANS ARE TO BE REVIEWED PRIOR TO CONSTRUCTION PHASE.	

STANDARD DETAILS FOR 8m "POST TOP" TUBULAR STEEL PLANTED COLUMNS
AS PER WSCC STREET LIGHTING SPECIFICATION (DOC REF: WSCC-SD1-1400-032)

Design Standards	BS EN 40.3.1, BS EN 40.3.3, PD6547-2022
Design Life	50 years
10 min mean wind velocity	22m/s
Terrain Category (inland)	II - 8m
Max altitude (inland)	132m
Terrain category (coastal)	I - 8m
Max altitude (coastal)	100m

Standard dimensions and minimum performance criteria	
Dimension	Nominal Height
	8000
	Planting depth
	1200
	Base diameter
Performance criteria	168.3
	Shaft diameter
	88.9
	Height of door above ground*
	400
Performance criteria	Size of door aperture
	600 x 115
	Luminaire weight
	20.0kg
	Luminaire windage
	0.17m²
	Luminaire tilt**
	5°
	Sign height above ground
	2.5m
Performance criteria	Sign eccentricity
	0.4m
	Sign area
	0.6m²
	Sign weight
Performance criteria	5.0kg
	Sign drag coefficient
	1.8
* May vary - see manufacturer detail and data sheet	
** Maximum tilt capability. Tilt will be stipulated in design drawing	

Protective system and paint specification for tubular steel columns
Paint system applied direct to clean de-greased, lightly abraded hot-dipped galvanised steel
Suitable two-pack epoxy primer, dry film thickness 75 microns (including internal surface to 250mm above ground level)
Polysiloxane finish PSX 700, dry film thickness 75 microns
Paint to be factory applied. Finish colour as per WSCC lighting specification for the given region unless otherwise specified

Notes

- All dimension in millimetres.
- Columns shall comply with BS EN 40, PD6547:2022 and departmental standard BD 94/17 in addition to the WSCC column specification; designers to verify that column proposed is suitable for any proposed attachments; data sheets to be provided.
- Column base backboard 500x85mm and made of treated hardwood of sufficient size to accommodate all control equipment, cut-outs and service cut-outs; boards shall be positively secured to the column by two flush screws.
- Extraneous attachments (if agreed) to be fixed with circumferential clamps of stainless steel AISA Grade 201 with Neoprene gasket under the clamps to prevent damage to the column and its protective coating.
- Columns in exceptional locations (on embankments, coast locations, etc); columns with brackets; columns with multiple luminaires or brackets; these may require special column design.
- For column foundation schematic see WSCC-SD1-1400-051. Columns in exceptional locations may need special foundation design.
- Column setbacks will be stipulated in design drawing.

Notes for standard Isolation & Internal Wiring (as per WSCC Street lighting specification)

- Secondary isolator - where units are supplied via statutory cable connections (DNO, IDNO) they shall be fitted with a secondary isolator in addition to the DNO/IDNO double pole supply cut-out. Secondary isolator type to be Tofco type 1 with BS88 fuses.
- Internal wiring - columns ≤10m - 1.5mm² 3-core flex cable from the secondary isolator to the lantern.
- Internal cabling to be neatly clipped to the backboard by use of 2no. fixed plastic cable clips securing the flex to the backboard. All fixing screws to be stainless steel.
- There should be no earth connected to the removable door.

PROPOSED KEY

- PROPOSED ROAD LIGHTING COLUMN OF 8M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.1, 5295 INTEGRATED LENSES, 16 OSOLON SQUARE GIANT, 870MA, 5.72 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.
- PROPOSED ROAD LIGHTING COLUMN OF 6M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.1, 5384 INTEGRATED LENSES, 16 OSOLON SQUARE GIANT, 870MA, 5.50 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.
- PROPOSED ROAD LIGHTING COLUMN OF 8M NOMINAL TUBULAR STEEL PAINTED BLACK COLUMN (AS PER WSCC SPECIFICATION). PROPOSED LANTERN SHALL BE A POST TOP MOUNTED URBIS AXIA 3.2, 5293 INTEGRATED LENSES, 24 OSOLON SQUARE GIANT, 900MA, 8.65 KLM NEUTRAL WHITE LED – NW 740 (4000K), CLO, LUMINAIRE BODY COLOUR: AKZO GREY 900 GS, COVER COLOUR: BLACK RAL9005. LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM.

DNO-C PROPOSED DISTRIBUTION NETWORK OPERATOR SINGLE PHASE & NEUTRAL CONNECTION REQUIRED.

SWITCHING & VARIABLE LEVEL OF LIGHTING : LIGHTS ARE CONTROLLED VIA TELENDA CMS SYSTEM. INDIVIDUAL TELENDA CMS TELECELLS FIT INTO A 7-PIN NEMA SOCKET THAT IS BUILT INTO EACH STANDARD ROAD LIGHTING LANTERN. THE 7-PIN NEMA SOCKET CAN ACCOMMODATE A STANDARD NEMA-TYPE PHOTOCELL, WHICH COULD BE FITTED TEMPORARILY ALLOWING INSTALLATION OF THE TELECELLS & BASE STATION AT A LATER DATE (PRE ACCRUAL); ANY CONVENTIONAL PHOTOCELLS FITTED TEMPORARILY SHOULD BE SET TO SWITCH ON AT 35 LUX & TO SWITCH OFF AT 18 LUX.

03	12/24	DESIGN AMENDMENTS	OJ
02	11/24	UPDATED HIGHWAY LAYOUT	YA
01	10/23	FOR COMMENTS	YA
Issue	Date	Revision	Initial



Title	NORTHERN ARC AVENUE CENTRAL SECTION PROPOSED STREET LIGHTING LAYOUT STREET LIGHTING
-------	--

Scale	1:500 @ A1		
Drawn	OJ	Date	12/24
Traced	OJ	Date	12/24
Approved	RG	Date	12/24
Issued	03	Date	12/24
Project Code.	P0150		
Dwg. No.	P0103-150-1301		