

LIGHTING NOTES

New lamp sources to be LED

Uncovered Platform:

Columns P1C1-C2, C17-C19, P2C20-C21, C23-25 shall be new Abacus 6m, heavy duty, root mounted, base-hinged columns

Lighting column P1C16 to be 5m Abacus light duty York-hinged column - TB050YH4C

Column P2C22 shall be a new Abacus 3.4m light duty root mounted, York-hinged column

Columns P1C1-C2, P1C16-C17, P1C19, P2C20-25 shall be fitted with a post top mounted ASD Lighting Highway Diamond Elite Mid luminaire at 0° incline

Column P1C18 shall be fitted with a 300mm outreach bracket and ASD Lighting Highway Diamond Elite Mid luminaire at 0° incline

P1W4-8 shall be wall mounted ASD Lighting Invinclible 600mm luminaires at 2600mm above platform surface

Canopied Platform:

P1C3-C15 & P2C1-19 shall be DW Windsor Strand B luminaires mounted to the canopy truss

P1W1-W3 & P2W1-W3 shall be ASD Titan luminaires mounted to the soffit of the footbridge

Emergency Lighting:

New luminaires P1C1-C19, P2C1-C25, P1W1-W12, P2W1-W6, P1B1-13 & P2B1-83 shall contain integral batteries for emergency lighting purposes. Batteries shall be capable of achieving 3 hour duration

Secondary Means of Escape (SME):

P1B1-B13, P2B1-B3 shall be Thorlux Passway bollard luminaires

P1W9-W12 shall be Thorlux Reala luminaires mounted to the extended fence posts at 1.8m above step level

P2W4-W5 shall be Thorlux Reala luminaires mounted to the fence at 1.6m above walkway level

P2W6 shall be a Thorlux Reala luminaire mounted to the fence at 1.8m above walkway level

SME lighting is provided for use only when presence is detected via motion detection sensors

Catalogue number / product codes:

Column:

Lighting columns P1C1-C2, P1C17, P1C18, P2C20-C21, P2C23-P2C25 shall be fitted with spigot (114mm to 76mm)

Hydraulic Counterbalance:

There are a variety of weight loadings on the columns throughout the station. Therefore it is not recommended to use spring counterbalances.

The product code for the hydraulic counterbalance suitable for use on heavy duty Abacus (I) columns is: RLH11M

The product code for the York-hinge counterbalance is: YHHYD/TOOL/76

Luminaire:

ASD Lighting PLC HMDNRW4LED4035-S7A5NR (P1C1-C2, P1C16-C17, P1C19, P2C20-C21, P2C23-C25)

ASD Lighting PLC HMDNRW4LED4035-S7A5NR (P1C18)

ASD Lighting PLC HMDNRW4LED1635-S7A5NR (P2C22)

ASD Lighting PLC TTS0BK4LED3000 sealed IP68 option (P1W1, P1W3, P2W1-W2)

ASD Lighting PLC TTS12BK4LED500 sealed IP68 option (P1W2, P2W3)

ASD Lighting PLC TV5NRW4LED1500NR (P1W4-W6)

DW Windsor Strand B 24LED 4k C1 500mA Strand B 24LED 4k (P1C3-C7, P1C11-C15, P2C1-C4)

DW Windsor Strand B 24LED 4k C1 400mA Strand B 24LED 4k (P1C3, P2C5-C19)

DW Windsor Strand B 24LED 4k A3 400mA Strand B 24LED 4k (P1C8, P1C10)

Thorlux EPW20422 PASSWAY PATHWAY 1100MM ROOT MOUNT (P1B1-B13, P2B1-B3)

Thorlux ERL09V40 REALTA EMERGENCY EM (P1W9-W12, P2W4-W5)

Thorlux ERL18A40 REALTA EMERGENCY EM (P2W6)

Bracket:

P1C18 to have 300mm single outreach bracket - PR2-03/S

Columns P1C1-C2, P1C17, P1C18, P2C20-C21 & P2C23-P2C25 shall be fitted with spigot (114mm to 76mm)

Canopied Platform (horizontal) - Eave 90 lux, uniformity 0.4, diversity 1/6 (BS EN 12464-2:2024, RIS-7702-INS)

In addition BS EN 12464-2 requires a maximum Glare Rating (R_g) of 50 and Colour Rendering Index (R_a) of >80.

Platform (vertical) - Emin 10 lux measured at 1m above platform surface along the usable platform length with a Uo of not less than 0.3 (RIS-7706-INS).

Emergency Lighting:

The emergency lighting requirements are for escape route lighting which shall achieve Emin 2 lux along the centreline of the route with diversity not exceeding 4:1 and 5 lux minimum on station emergency signage (RIS-7702-INS).

Refer to lighting calculations within Form 003 for further details on calculated maintained lighting levels.

Circuit Connection:

The design is based upon a 12 month cleaning cycle, a 20 year luminaire replacement cycle.

Lighting Control:

Platform lighting to be controlled via photocell and time clock arrangement.

Platform 1 - Photocell to be fixed on top of luminaire on column P1C2.

Platform 2 - The location of the existing photocell is not known. Location to be confirmed during construction and suitability of installing new photocell in the same location to be assessed (taking account of access for maintenance/cleaning activities).

Secondary means of escape lighting to be activated via luminaire integral PIR presence detection.

Circuit Connection:

See drawings 151667-TSA-40-MDL1-DRG-E-EP-080023 and 151667-TSA-40-MDL1-DRG-E-EP-080024 for circuit arrangement and lighting control.

The minimum levels of illumination to be achieved shall be:

Uncovered Platform (horizontal) - Eave 90 lux, uniformity 0.4, diversity 1/6 (BS EN 12464-2:2024, RIS-7702-INS)

Canopied Platform (horizontal) - Eave 90 lux, uniformity 0.4, diversity 1/6 (BS EN 12464-2:2024)

In addition BS EN 12464-2 requires a maximum Glare Rating (R_g) of 50 and Colour Rendering Index (R_a) of >80.

Platform (vertical) - Emin 10 lux measured at 1m above platform surface along the usable platform length with a Uo of not less than 0.3 (RIS-7706-INS).

Emergency Lighting:

The emergency lighting requirements are for escape route lighting which shall achieve Emin 2 lux along the centreline of the route with diversity not exceeding 4:1 and 5 lux minimum on station emergency signage (RIS-7702-INS).

Refer to lighting calculations within Form 003 for further details on calculated maintained lighting levels.

Legend:

ASD Lighting Highway Diamond Elite on Abacus heavy duty R&L column

ASD Lighting Highway Diamond Elite on Abacus heavy duty R&L column with outreach bracket

Heavy duty lighting column fold down position

ASD Lighting Highway Diamond Elite on Abacus light duty York-hinge column

York-hinge lighting column fold down position

DW Windsor Strand B luminaire

1200mm ASD Titan luminaire

600mm ASD Titan luminaire

Thorlux Passway bollard luminaire

Thorlux Reala luminaire

600mm ASD Invinclible

Colour Code

Proposed

To be removed

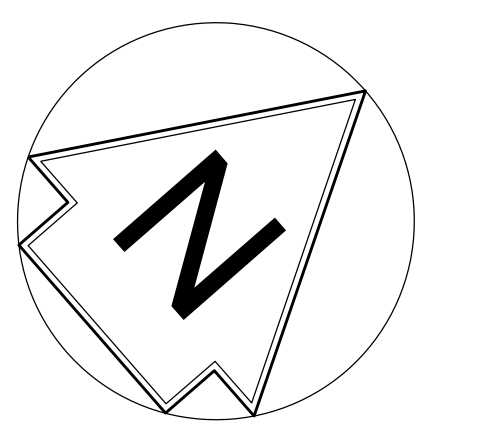
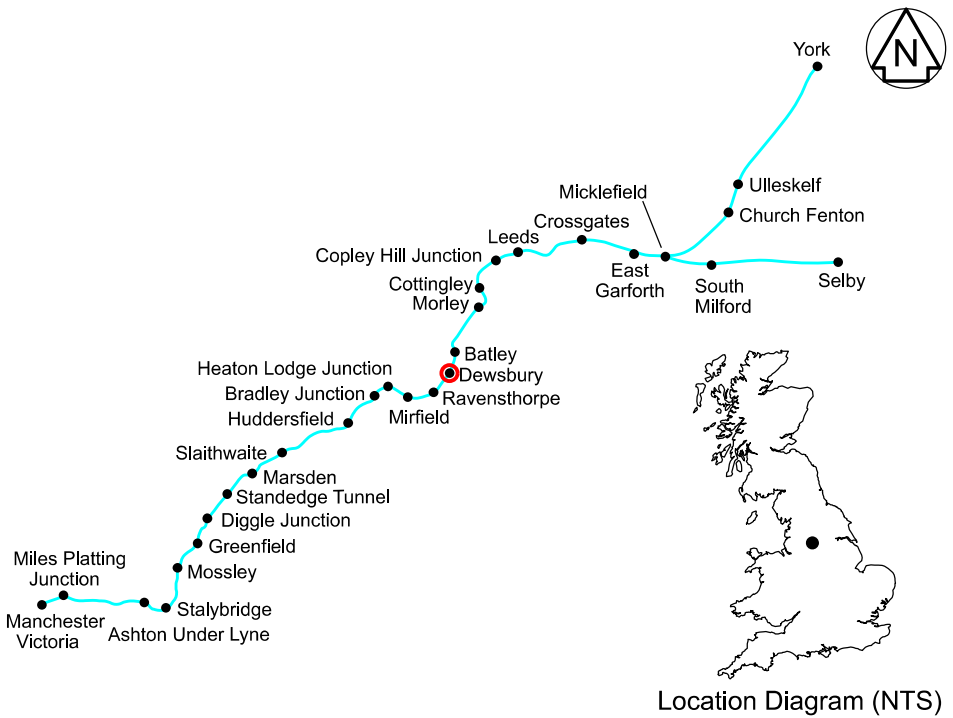
To be modified

Existing

Passive provision

OCLZ

Proposed works by other disciplines



Legend/Notes

- This drawing is for platform lighting only.
- All dimensions are in millimetres unless stated otherwise.
- Do not scale from drawing.
- Unless otherwise stated installation works shall be carried out in accordance with all relevant railway group & network rail company standards.
- All wiring and electrical installation works shall be carried out in accordance with the 18th Edition of the IET Wiring Regulations BS 7671:2018+A2:2022 and the Electricity at Work regulations (1987).
- Cables to be routed along platforms in canopy mounted cable trunking and buried during work with chambers local to electrical equipment and change of direction. See civils design for details of cable routes.
- Waiting room (Macnamra) to contain pre-installed lighting modules.
- All existing lighting columns on the platform to be removed (not shown for clarity).
- Cables from the switch room on Platform 2 will be routed at high level utilising the existing cable containment to the Platform 2 distribution cubicle. Outgoing circuits will be fed from the cubicle via the existing canopy cable containment, which will be extended along the proposed canopy extension. The supply to the Platform 1 distribution cubicle will utilise the existing cable containment across the footbridge, feeding into the existing canopy mounted trucking on the high mileage end of the platform. It is assumed that there is sufficient capacity in the existing cable containment to accommodate the proposed design alterations/additions. This cable containment is to be continued along the new canopy extension sections. Cable containment capacity shall be determined during construction. If it is found that there is insufficient capacity in the existing canopy mounted cable containment, additional containment shall be installed alongside the existing.
- To be read in conjunction with:

Drawings:

- 151667-TSA-40-MDL1-DRG-E-DS-080008, W4 - E&P - Dewsbury Station - Earthing & Bonding Schematic
- 151667-TSA-40-MDL1-DRG-E-DS-080017, W4 - E&P - Dewsbury Station - Platform Lighting Removals General Arrangement
- 151667-TSA-40-MDL1-DRG-E-DS-080018, W4 - E&P - Dewsbury Station - Earthing and Bonding Layout Drawing
- 151667-TSA-40-MDL1-DRG-E-DS-080019, W4 - E&P - Dewsbury Station - Proposed Footbridge Lighting General Arrangement
- 151667-TSA-40-MDL1-DRG-E-DS-080021, W4 - E&P - Dewsbury Station - Footbridge Lighting Removals General Arrangement
- 151667-TSA-40-MDL1-DRG-E-EP-080005, W4 - E&P - Dewsbury Station - LV Schematic Removals
- 151667-TSA-40-MDL1-DRG-E-EP-080012, W4 - E&P - Dewsbury Station - Proposed Switch Room Schematic
- 151667-TSA-40-MDL1-DRG-E-EP-080016, W4 - E&P - Dewsbury Station - Platform 1 Cubicle General Arrangement
- 151667-TSA-40-MDL1-DRG-E-EP-080023, W4 - E&P - Dewsbury Station - Proposed Platform 2 Schematic
- 151667-TSA-40-MDL1-DRG-E-EP-080024, W4 - E&P - Dewsbury Station - Proposed Platform 1 Schematic

W4 CDM hazard record:
151667-TSA-W4-MDL1-REG-W-SS-000001

Safety, Health and Environmental Information

For Health and Safety Information, refer to discipline specific Project Hazard Record.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
P04	26/03/22	DRN Submission	DM	RH	RH	
A01	11/01/22	DRN Submission	DM	BR	RH	
P05	26/11/25	For GRP 5 DOC	HH	DR	DR	
P06.3	26/02/26	For DRN		DR		

Initial Status WIP

Network Rail

TRU - West of Leeds

Transpennine Route Upgrade

151667

TRU - West of Leeds

W4 - E&P - Dewsbury Station - Proposed Platform Lighting General Arrangement

Designed	H Hawkins	Signed	Date
Drawn	D.Rounds	Signed	02/02/26
Checked		Signed	Date
Approved		Signed	Date

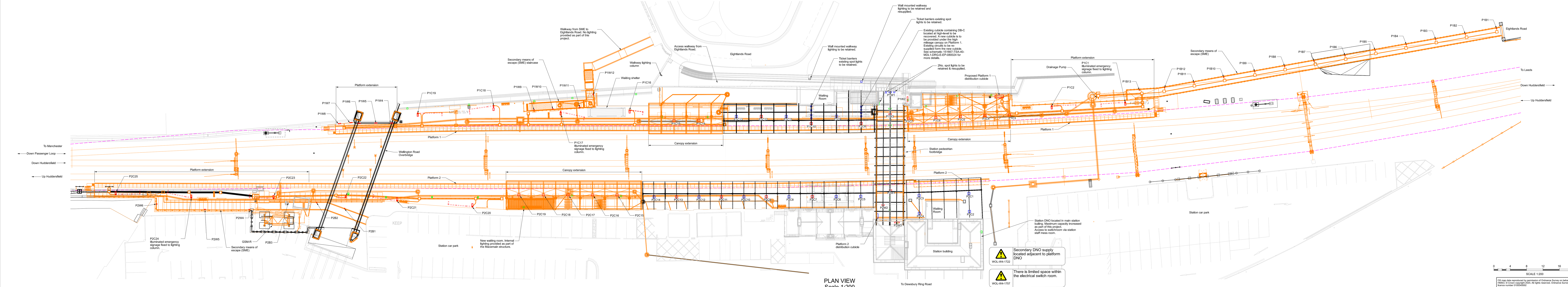
Scale: **As Shown** to **33,1406**

Alternative Reference: **33.1406**

Sheet **1** of **1**

Drawing Number: **151667-TSA-40-MDL1-DRG-E-DS-080007**

Sheet Size: **A1+604 x 2101**



PLAN VIEW
Scale 1:200

Secondary DNO supply located adjacent to platform DNO

There is limited space within the electrical switch room.