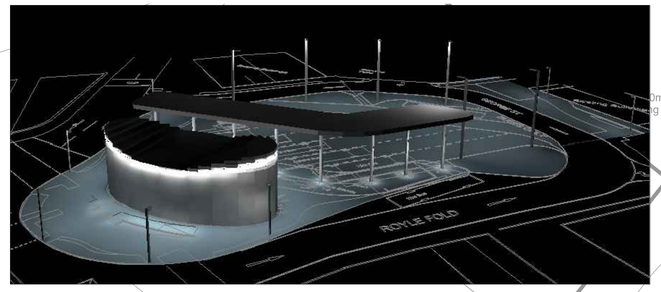
DETAIL 1: SITE-WIDE 3D-VIEW



SY PEDESTRIAN AREA AT NORTH OF SITE TO HAVE COLUMN-MOUNTED LED LUMINAIRES. PEDESTRIAN SEATING TO HAVE LED LINEAR LUMINAIRES MOUNTED UNDERNEATH.

CONTRACTOR SHALL MAKE AN ALLOWANCE FOR GROUND-MOUNTED ARCHITECTURAL DIRECTIONAL LED UPLIGHTER LUMIANIRES WITHIN THE FLOWERBEDS TO ILLUMINATE THE EXTERNAL ARTWORK. ASSOCIATED DUCTWORK, CABLING, AND CIRCUIT PROTECTIVE DEVICES SHALL BE INCLUDED.

CENTRAL BUS-TURNING AREA TO BE ILLUMINATED BY COLUMN-MOUNTED FLOODLIGHTS

CONTRACTOR SHALL MAKE AN ALLOWANCE FOR GROUND-MOUNTED ARCHITECTURAL DIRECTIONAL LED UPLIGHTER LUMIANIRES WITHIN THE FLOWERBEDS TO ILLUMINATE THE EXTERNAL ARTWORK. ASSOCIATED DUCTWORK, CABLING, AND CIRCUIT PROTECTIVE DEVICES SHALL BE INCLUDED.

PEDESTRIAN SEATING TO HAVE LED LINEAR LUMINAIRES MOUNTED UNDERNEATH. TO PROVIDE ARCHITECTURAL LIGHTING FOR THE OVERALL PEDESTRIAN AREA

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CONTRACTOR SHALL MAKE AN ALLOWANCE FOR GROUND-MOUNTED ARCHITECTURAL DIRECTIONAL LED UPLIGHTER LUMIANIRES WITHIN THE FLOWERBEDS TO ILLUMINATE THE EXTERNAL ARTWORK. ASSOCIATED DUCTWORK, CABLING, AND CIRCUIT PROTECTIVE DEVICES SHALL BE INCLUDED.

LINEAR RECESSED LED ARCHITECTURAL LUMINAIRES UTILISED WITHIN THE MAIN CANOPY AREA.

LIT SIGNAGE TO BE INSTALLED ON THE MAIN CANOPY AT HIGH LEVEL.

ARCHITECTURAL LED STRIP LIGHTING TO BE INSTALLED ALONG THE PERIMETER OF THE BUILDING AT ROOF LEVEL. REFER TO DETAIL 1.

LIT SIGNAGE TO BE INSTALLED ON THE BUILDING EXTERIOR AT HIGH LEVEL.

GUARD-RAIL MOUNTED LED LINEAR LUMINAIRES UTILISED AT THE BUS HUB ENTRANCE RAMP TO PROVIDE ADEQUATE ILLUMINATION FOR PEDESTRIANS.

CIRCULAR LUMINAIRES MOUNTED AL THE SIDE OF THE STAIRS TO PROVIDE ARCHITECTURAL ILLUMINATION FOR THE BUS HUB ENTRANCE STAIRS.

GEORGE ST

Existing Buildings

BUSES ONLY

Reversing Cameras

Extent of raised planted area by Landscape Architect

Green wall to Landscape Architect's design

Existing stone wall

New 1100mm high railing

Proposed continuous footway

Extended ke

Soft landscaping - refer to Landscape Architects' design

Steel barrier

Pedestrian crossing

1200mm high railing added access gate for drivers

Driver's route from layover bay - with steel railings either side

Layover bay

Fall 1:3

Bin Store

Concrete bus barriers

12m Bus

Ontare Bus

Stand 1

Stand 2

Stand 3

Stand 4

Stand 5

Stand 6

Bus Stands 1-6

Waiting area entrance

Arriva Office

Driver's mess

Switch Rm

Waiting

Changing Places

Server Rm

Acc. WC

Store

Cycle shelter (8no. spaces)

SS door barrier to doors opening out

Existing Buildings

Landscape benching and soft landscaping refer to Landscape Architects' design

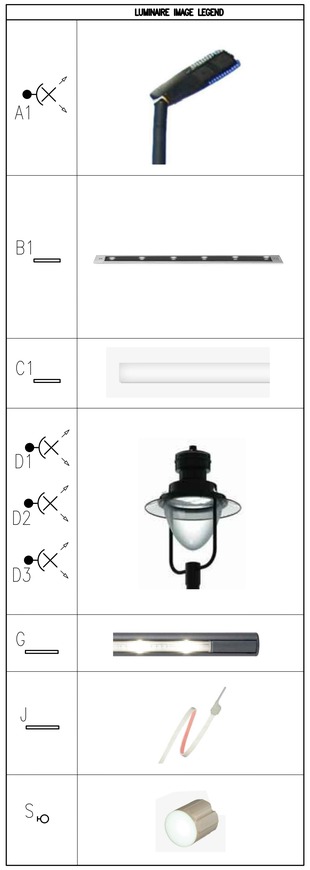
New 1100mm high railing

WESTGATE A638

N 423,500.000 m

DB/EX-L/1L3 · DB/EX-L/2L2 · DB/EX-L/10L3 · DB/EX-L/2L1 · DB/EX-L/1L2 · DB/EX-L/10L2 · DB/EX-L/10L1 · DB/EX-L/1L2 · DB/EX-L/11L2 · DB/EX-L/9L3 · DB/EX-L/12L2 · DB/EX-L/12L3 · DB/EX-L/11L1 · DB/EX-L/13L1 · DB/EX-L/9L2 · DB/EX-L/1L3 · DB/EX-L/14L3 · DB/EX-L/16L1 · DB/EX-L/15L3 · DB/EX-L/14L2 · DB/EX-L/15L2 · DB/EX-L/14L1 · DB/EX-L/15L1 · DB/EX-L/9L1 · DB/EX-L/1L1

LUMINAIRE IMAGE LEGEND



STANDARD NOTES:- PURPOSE OF DRAWING

DO NOT SCALE

- ☐ CONCEPT DRAWING
- ☐ DEVELOPED DESIGN DRAWING
- ☑ TECHNICAL DESIGN DRAWING

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DOCUMENTS AND DRAWINGS PROVIDED BY WSP.
2. THE DRAWING INDICATES THE DESIGN INTENT FOR THE WORKS.
3. THE DRAWING DOES NOT INDICATE THE PRECISE POSITION OF SERVICES AND SHOWS THE INTENDED LOCATIONS OF BUILDING SERVICES ITEMS AND SERVICE ROUTES IN SUCH DETAILS AS TO INDICATE THE DESIGN. THE DRAWING DOES NOT SHOW ALL COMPONENTS THAT MAY BE NECESSARY TO LOCATE SERVICES IN A FULLY COORDINATED MANNER.
4. THE POSITION OF ALL CONNECTION POINTS, ACCESSORIES, EQUIPMENT AND OTHER BUILDING SERVICES ITEMS AS SHOWN ON THE DRAWING ARE APPROXIMATE AND FOR GUIDANCE IN THE PREPARATION OF THE TENDER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THE INSTALLATION AND SHALL TAKE ACCOUNT OF ALL THE OTHER WORKS AND TRADES EITHER DURING OR PRIOR TO THEIR INCORPORATION INTO THE WORKS.
6. COORDINATION WORKING DRAWINGS, INSTALLATION DRAWINGS AND BUILDERS WORK DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR.
7. WSP IS NOT RESPONSIBLE FOR THE DESIGN AND COORDINATION OF ACCESS PLATFORMS, ACCESS COVERS, GRATINGS, LADDERS, STAIRS, RAILS, AND PROTECTING ELEMENTS REQUIRED FOR FUTURE MAINTENANCE AND OPERATION OF THE WORKS.
8. THE DRAWING SHALL BE USED FOR THE INTENDED PURPOSE ONLY AND WSP WILL NOT BE HELD RESPONSIBLE FOR ANY OTHER USE.

DIMENSIONS

1. DIMENSIONS SHALL NOT TO BE SCALED FROM THE DRAWING AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND LEVELS ON SITE FOR THE ACTUAL SETTING OUT OF THE WORKS.
2. WSP IS NOT RESPONSIBLE FOR CHECKING DIMENSIONS ON SITE
3. WSP IS NOT RESPONSIBLE FOR SETTING OUT GRID LINES, BUILDING LINES ETC..
4. WSP IS NOT RESPONSIBLE FOR DIMENSIONS USED IN THE ORDERING AND MANUFACTURING OF EQUIPMENT AND THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR..

HEALTH AND SAFETY

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE HEALTH AND SAFETY INFORMATION PROVIDED IN THE TENDER DOCUMENTATION AND/ OR WITHIN PRE-CONSTRUCTION INFORMATION.
2. BEFORE COMMENCEMENT OF WORKS ASSOCIATED WITH THE DRAWING REFER TO ALL RELEVANT HEALTH AND SAFETY INFORMATION FOR THE WORKS INCLUDING RESIDUAL RISK INFORMATION.

LUMINAIRE LEGEND

A1	ALED CLIPPER 150W 18910LM 4000K FLOODLIGHT LED LUMINAIRE MOUNTED ON STANDARD KIRKLEES COUNCIL 10M STREET LIGHTING POLE.
B1	IQUZZINNI LUNEALUCE MINI 47 13W 1800LM IP66 4000K DALI-DIMMABLE ARCHITECTURAL LED LINEAR RECESSED LUMINAIRE MOUNTED UNDER-CANOPY PANEL SYSTEM. IN GREY RAL7016 COLOUR FINISH.
C1	DW WINDSOR VAO ECO MONOCHROME 76LM/M, 22LM/W IP67 4100K LINEAR LUMINAIRE MOUNTED UNDERNEATH SEATING WITHIN PEDESTRIAN AREAS. 750MM IN LENGTH AND 40MM IN HEIGHT.
D1	CU PHOSCO P511 49W 4944LM IP54 4000K LED LUMINAIRE MOUNTED ON STANDARD KIRKLEES COUNCIL 5M STREET LIGHTING COLUMN.
D2	CU PHOSCO P511 49W 4944LM IP54 4000K LED LUMINAIRE MOUNTED ON STANDARD KIRKLEES COUNCIL 5M STREET LIGHTING COLUMN. 1 X BRACKET MOUNTED CCTV TO BE ADDED ONTO THE COLUMN
D3	CU PHOSCO P511 49W 4944LM IP54 4000K LED LUMINAIRE MOUNTED ON STANDARD KIRKLEES COUNCIL 5M STREET LIGHTING COLUMN. 2 X BRACKET MOUNTED CCTV TO BE ADDED ONTO THE COLUMN
G	DW WINDSOR GARDA ASYMMETRIC 972LM IP66 IK10 4000K DALI-DIMMABLE LINEAR HAND-RAIL LUMINAIRE. 600MM IN LENGTH. IN STAINLESS STEEL FINISH.
J	OSRAM LINEARLIGHT FLEX PROTECT POWER 1200 1200LM/M 10.6W/M IP67 4000K DALI-DIMMABLE STRIP-LIGHTING LED LUMINAIRE MOUNTED AROUND PERIMETER OF BUILDING AT ROOF LEVEL. 100MM IN LENGTH.
S	DW WINDSOR LIGHT POINT MONOCHROME WHITE IP67 IK09 4000K CIRCULAR LED LUMINAIRE MOUNTED WITHIN SIDES OF ENTRANCE STAIRS. 60MM IN DIAMETER.
X1/E	WHITECROFT CONCERT EX65 IP65 1.2W OVER-DOOR SURFACE MOUNTED EMERGENCY BULKHEAD NON-MAINTAINED LUMINAIRE WITH 3HR EMERGENCY BATTERY PACK.
X1	BUILDING MOUNTED LIT-SIGNAGE. SPECIFICATION TO BE AGREED WITH SIGNAGE SPECIALIST.
X2	CANOPY MOUNTED LIT-SIGNAGE. SPECIFICATION TO BE AGREED WITH SIGNAGE SPECIALIST.

HATCH BOUNDARY LEGEND

AREA SURROUNDING SITE BOUNDARY TO HAVE MINIMAL OVERSPILL FROM THE EXTERNAL LIGHTING SCHEME. EXISTING ROAD AREAS TO BE ILLUMINATED BY STREET LIGHTING.

LIGHTING CONTROLS

THE LIGHTING COLUMNS DENOTED AS "A" AND "D" FITTINGS SHALL FALL UNDER THE OWNERSHIP OF THE STREET LIGHTING DEPARTMENT IN KIRKLEES COUNCIL. THEY SHALL BE SEPERATELY METERED WITHIN THE SWITCHROOM SO THAT THE ENERGY EXPENDITURE COSTS CAN BE RECLAIMED BY THE ASSET/BUILDING DEPARTMENT.

THE SYSTEM SHALL UTILIZE A TIME-CLOCK, AND PHOTOCELL WHERE POSSIBLE. THIS SHALL ENSURE LUMINAIRES WILL TURN OFF/ON DEPENDING ON THE TIME OF DAY AND DAYLIGHT LEVELS.

LIGHTING LEVELS ARE IN LINE WITH THE BS 12464 DOCUMENTS AND LG LIGHTING GUIDES FOR EXTERNAL LIGHTING.

ALL EXTERNAL LIGHTING USED, ESPECIALLY FITTING "C1", SHALL BE OF THE VARIANT TO BE CAPABLE OF BEING SUPPLIED FROM THE REQUIRED RANGE/DISTANCE. THIS ALLOWABLE RANGE WOULD BE IDEALLY 100M OR MORE.

REV	DATE	BY	DESCRIPTION	CHK	APP
P11	29/06/2023	KZ	STAGE 4 ISSUE	RE	JW
P10	19/02/2023	KZ	STAGE 4 - DRAFT ISSUE	RE	JW
D01	06.07.2022	KZ	STAGE 3 ISSUE - CLIENT REQUEST - LIGHTING COLUMNS REPLACED WITH COUNCILS STANDARD FITTINGS	RE	JW
P09	06.07.2022	KZ	STAGE 3 ISSUE - CLIENT REQUEST - LIGHTING COLUMNS REPLACED WITH COUNCILS STANDARD FITTINGS	RE	JW
P08	04.04.2022	KZ	STAGE 3 ISSUE	RE	JW
P07	23.03.2022	KZ	STAGE 3 ISSUE	RE	JW
D01	28.02.2022	KZ	STAGE 3 WORK IN PROGRESS ISSUE	KZ	JW
P06	18.11.2021	KZ	STAGE 3 DRAFT ISSUE	KZ	JW
P05	29.07.2021	KZ	UPDATED RED AND BLUE HIGHLIGHTED AREAS TO SUIT NEW KERB LINE	KZ	JW
P04	28.07.2021	KZ	UPDATED ARCHITECTURAL LAYOUT. BOLLARD LOCATIONS CHANGED TO SUIT LAYOUT	KZ	JW
P03	07.07.2021	RE	LIGHTING LAYOUT UPDATED TO SHOW COORDINATION WITH LANDSCAPE LAYOUT	RE	JW
P02	30.06.2021	KZ	UPDATED ARCHITECTURAL LAYOUT	RE	JW
P01	20.04.2021	KZ	FOR INFORMATION	RE	JW

DRAWING STATUS: STAGE 4

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CLIENT: KIRKLEES COUNCIL

ARCHITECT: SGP ARCHITECTS

PROJECT: HECKMONDWIKE BUS STATION

TITLE: ELECTRICAL SERVICES EXTERNAL AREAS LIGHTING & CONTROL STRATEGY LAYOUT

SCALE @ A0	CHECKED:	APPROVED:
1:100	JW	JW
PROJECT No: 70079085	DESIGNED: KZ / DRAWN: KZ	DATE: JUNE 2023

DRAWING No: HBH-WSP-00-ZZ-DR-E-630102 REV: P11

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