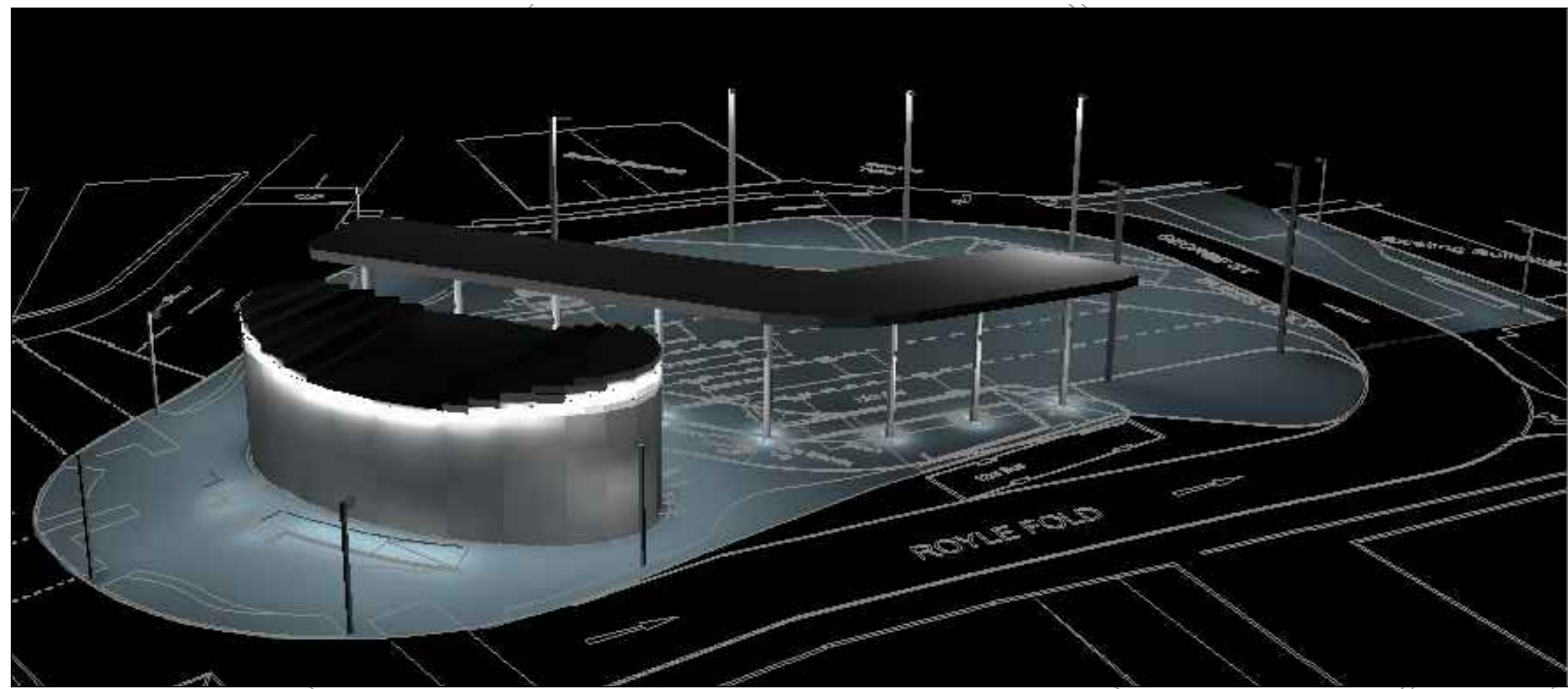


DETAIL 1: SITE-WIDE 3D-VIEW



CONTRACTOR SHALL MAKE AN ALLOWANCE FOR GROUND-MOUNTED ARCHITECTURAL DIRECTIONAL LED UPLIGHTER LUMINAIRES 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 LUMINAIRES 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

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

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Yai

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 LUMINAIRES WITHIN THE FLOWERBEDS TO ILLUMINATE THE EXTERNAL ARTWORK. ASSOCIATED DUCTWORK, CABLING, AND CIRCUIT PROTECTIVE DEVICES SHALL BE INCLUDED.

Existing Buildings

GEORGE ST  
BUSES ONLY

ROYLE FOLD

WESTGATE  
A638

Buildings

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

LUMINAIRE IMAGE LEGEND	
A1	
B	
B/E	
C1	
D1	
D2	
D3	
G	
J	
S	

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 SEPARATELY 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.	

LUMINAIRE LEGEND	
A1	ALED CLIPPER 150W 18010LM 4000K FLOODLIGHT LED LUMINAIRE MOUNTED ON STANDARD KIRKLEES COUNCIL 10M STREET LIGHTING POLE.
B	WE-EF VLS420 24W 2200LM IP66 4000K ARCHITECTURAL LED UP/DOWNLIGHT LUMINAIRE MOUNTED ON CANOPY STRUCTURAL COLUMNS. IN GREY RAL7016 COLOUR FINISH.
B/E	WE-EF VLS420 24W 2200LM IP66 4000K ARCHITECTURAL LED UP/DOWNLIGHT LUMINAIRE MOUNTED ON CANOPY STRUCTURAL COLUMNS. WITH 3HR EMERGENCY BATTERY PACK. IN GREY RAL7016 COLOUR FINISH.
C1	DW WINDSOR VAO EDO MONOCHROME 156LM/W 45LM/W IP67 4100K LINEAR LUMINAIRE MOUNTED UNDERNEATH SEATING WITHIN PEDESTRIAN AREAS. 750MM IN LENGTH AND 50MM 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 GARD ASYMMETRIC 616LM IP66 IK10 4000K DALI-DIMMABLE LINEAR RAIL-GUARD LUMINAIRE WITHIN BUS HUB ENTRANCE AREAS. 900MM IN LENGTH. IN STAINLESS STEEL FINISH.
J	OSRAM LINEARLIGHT FLEX PROTECT POWER 1200 1200MM/W 10.9W/M IP67 4000K DALI-DIMMABLE STRIP-LIGHTING LED LUMINAIRE MOUNTED AROUND PERIMETER OF BUILDING AT ROOF LEVEL. 1000MM 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 RELEASED NON-MANTAINED 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.

**STANDARD NOTES:-**  
 PURPOSE OF DRAWING:  
 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.

**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.

**REVISIONS**

NO	DATE	BY	DESCRIPTION	CHK	APP
P01	05/07/2021	KZ	STAGE ISSUE- CLIENT REQUEST- LIGHTING COLUMNS	RE	JW
P02	06/07/2021	KZ	STAGE ISSUE	RE	JW
P03	22/07/2021	KZ	STAGE ISSUE	RE	JW
P04	19/08/2021	KZ	STAGE 1 WORK IN PROGRESS ISSUE	KZ	JW
P05	18/11/2021	KZ	STAGE 1 WORK IN PROGRESS ISSUE	KZ	JW
P06	18/11/2021	KZ	STAGE 1 WORK IN PROGRESS ISSUE	KZ	JW
P07	28/07/2021	KZ	UPDATED ARCHITECTURAL LAYOUT	KZ	JW
P08	28/07/2021	KZ	UPDATED ARCHITECTURAL LAYOUT	KZ	JW
P09	07/07/2021	RE	LIGHTING LAYOUT UPDATES TO SHOW COORDINATION WITH UNDERGROUND SERVICES	RE	JW
P10	30/06/2021	KZ	UPDATED ARCHITECTURAL LAYOUT	RE	JW
P11	22/06/2021	KZ	FOR INFORMATION	RE	JW
REV	06/07/2021	RE	DESCRIPTION	CHK	APP

**DRAWING STATUS**  
 STAGE 3

**WSP**  
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**CLIENT:** KIRKLEES COUNCIL  
**ARCHITECT:** SGP ARCHITECTS  
**PROJECT:** HECKMONDWIKE BUS STATION  
**TITLE:** ELECTRICAL SERVICES EXTERNAL AREAS LIGHTING & CONTROL STRATEGY LAYOUT

**SCALE:** 1:100  
**PROJECT NO:** 70079085  
**DRAWING NO:** HBH-WSP-00-ZZ-DR-E-630102  
**DATE:** APRIL 2021  
**REV:** P09  
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