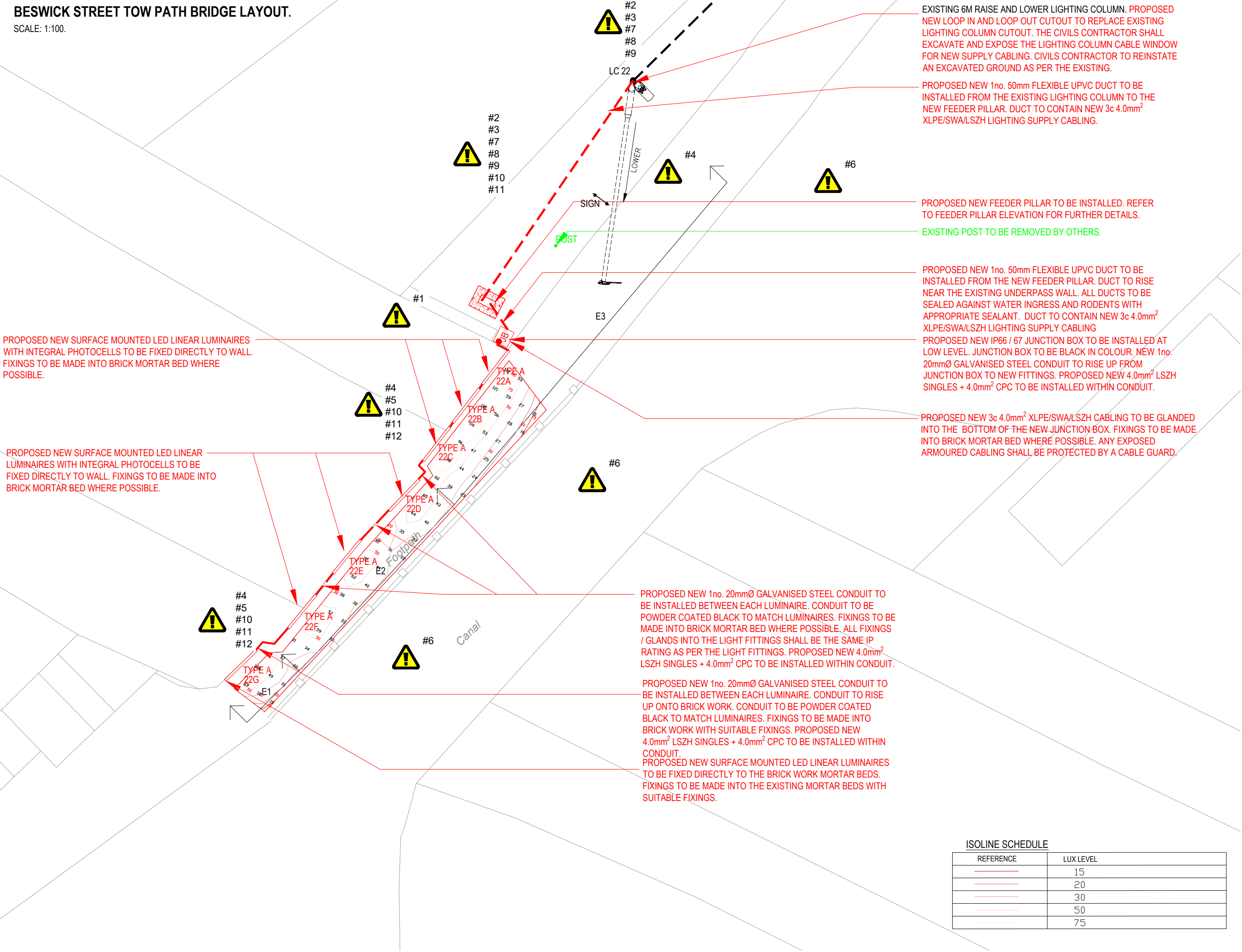


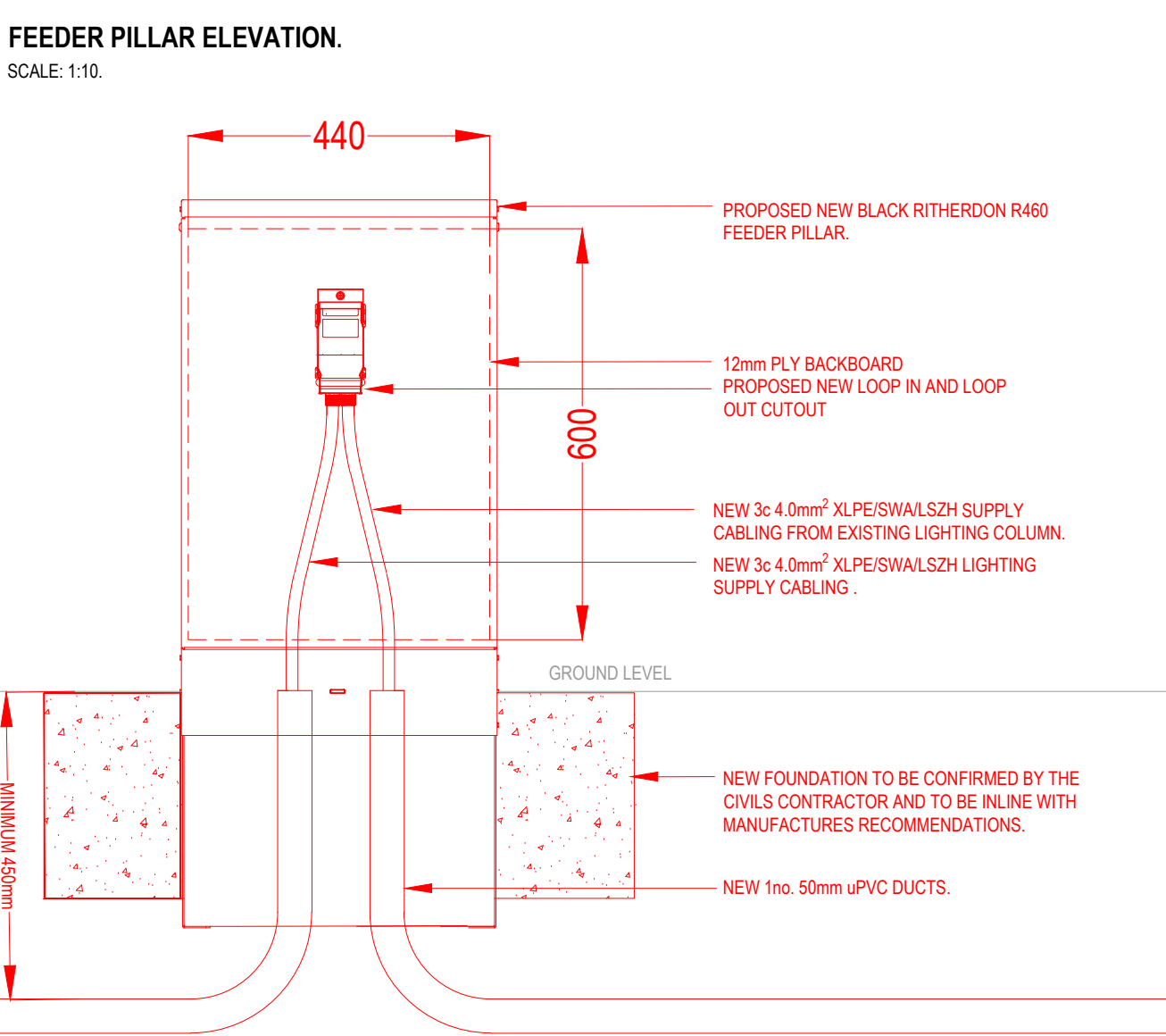
BESWICK STREET TOW PATH BRIDGE LAYOUT.

SCALE: 1:100.



FEEDER PILLAR ELEVATION.

SCALE: 1:10.



CONSTRUCTION RISK REGISTER.

DESIGN BASED RESIDUAL HAZARD		
Design Based Hazards actively eliminated where possible in the Design Process. Where hazards cannot be eliminated, this symbol on the drawing with an attached note means:		
1. Design Based Hazards Exists within this proposal.		
2. Action is required by the person supervising the work to manage the design hazards during construction.		
ENVIRONMENTAL HAZARD		
1. Working at Height.	4. Working near pedestrians	8. Open Excavations
2. Buried Services	5. Defective Motor Beds	9. Excavation works, breaking out, etc.
3. Electrical Shock, injury or fatality.	6. Working Near Water	10. Assumed Cable Size.
	7. Overgrown Vegetation	12. Low Level Lighting
Construction Risks		
The table above is provided to assist the Client & Principal Contractor to fulfil his obligations under the Construction (Design & Management) Regulations 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities.		
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX		

SYMBOL SCHEDULE

REFERENCE	DESCRIPTION
---	ASSUMED BURIED DIRECT CABLING.
---	EXISTING 6M RAISE AND LOWER LIGHTING COLUMN.
---	NEW UPVC DUCTING (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING).
---	NEW GALVANISED STEEL CONDUIT (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING). CONDUIT TO BE POWDER COATED BLACK TO COLOUR MATCH LUMINAIRES.
---	PROPOSED NEW INTEGRAL ROOT 1060 X 464mm FEEDER PILLAR. TO BE MANUFACTURED BY RITHERDON MODEL R460. FEEDER PILLAR TO BE POWDER COATED COLOUR BLACK.
---	NEW BLACK IP66 / 67 JUNCTION BOX. TO BE MANUFACTURED BY WISKA MODEL COMBI 607.

LIGHTING SCHEDULE.

REF.	DESCRIPTION	MANUFACTURER	CATALOGUE No.	IMAGE
A	23.4W, NORMAL LUMINANCE OUTPUT: 2400lm, 3000K, 1250mm LED SURFACE MOUNTED SLIM LINEAR LUMINAIRE. WITH OPAL POLYCARBONATE DIFFUSER, IK10 RATING AND IP65. BLACK COLOUR FINISH RAL 9005. LUMINAIRES TO HAVE INTEGRAL PHOTOCELLS. LUMINAIRE LUMEN OUTPUT TO BE SET TO 300 LUMENS BY THE MANUFACTURER.	VANDALITE LIGHTING STRENNA	STR-SLIM 2.6 LED-3K /SM (EXTB/FL-FSS/IP65/PC (SIDE ENTRY)	

LIGHTING LEVELS REQUIRED

LOCATION	STANDARDS	REQUIRED LUX LEVELS (EMIN)	REQUIRED UNIFORMITY
FOOTPATH LIGHTING	BS EN 13201-2:2015	10lux Minimum	0.40

ACHIEVED LIGHTING LEVELS

LOCATION	STANDARDS	REQUIRED LUX LEVELS (EMIN)	REQUIRED UNIFORMITY	ACHIEVED LUX LEVELS (Emin)	ACHIEVED UNIFORMITY
FOOTPATH LIGHTING	BS EN 13201-2:2015 TABLE 2 - CLASS C4	10lux Minimum	0.4u	15 lux Emin	0.3u

DUE TO THE HEIGHT OF THE FITTINGS AND LIMITED HEAD CLEARANCE, THE CLIENT HAS CONFIRMED THAT A DEROGATION FROM THE STANDARD REGARDING THE UNIFORMITY DUE TO NOT ACHIEVING 0.4 UNIFORMITY IS APPLICABLE TO THIS BRIDGE.

METHODOLOGY FOR LIGHTING FIXING TO EXISTING STRUCTURE:

- CABLES WILL RUN BELOW GROUND WHEREVER POSSIBLE AND RISE VERTICALLY TO EACH LUMINAIRE IN LINE WITH PERPEND MORTAR JOINTS
- HAND TOOLS TO BE USED TO DRILL INTO EXISTING STRUCTURE TO LIMIT IMPACT AND MITIGATE DAMAGE.
- IMPACT ON ORIGINAL FABRIC WILL BE LIMITED BY DRILLING AND FIXING INTO MORTAR JOINTS WHEREVER POSSIBLE.
- IMPACT FOR FIXINGS SHOULD BE MINIMISED AND LIMITED TO DRILLING REQUIRED FOR THE FIXING ITSELF.
- IF MORTAR IS DAMAGED DURING DRILLING, MAKE GOOD WITH EQUIVALENT MATERIALS TO MATCH EXISTING (LIME MORTAR ETC)
- IF BRICKWORK IS DAMAGED DURING DRILLING, REPAIRS SHALL TO MATCH EXISTING USING EQUIVALENT MATERIALS AND BE UNDERTAKEN BY SPECIALIST CONTRACTOR. IF ANY BRICKS REQUIRE REPLACEMENT BECAUSE OF DAMAGE SUSTAINED DURING FIXING, SOURCE SUITABLE HISTORIC BRICKS AND SECURE APPROVAL BY THE CONSERVATION OFFICER BEFORE INSTALLATION.

THE CONTENTS OF THIS DRAWING ARE STRICTLY COPYRIGHT OF VITEC WEBBER LENIHAN CONSULTING ENGINEERS. THE CONTENTS OF THIS DRAWING MAY NOT BE ALTERED, REPRODUCED OR USED FOR ANY PURPOSE OTHER THAN THE CONTRACT WORKS FOR WHICH IT IS ISSUED WITHOUT WRITTEN PERMISSION.

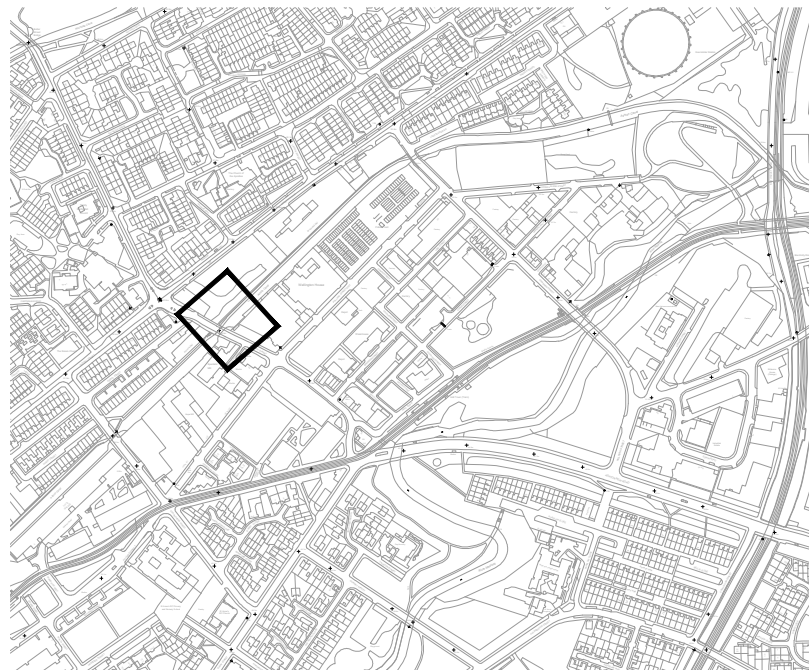
WARNING DO NOT SCALE FROM THIS DRAWING. VERIFY ALL DIMENSIONS AND STRUCTURAL DETAILS ON SITE.

NOTES:

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT BRITISH AND EUROPEAN STANDARDS.
- THE MAIN CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION OF SERVICE INSTALLATIONS WITH ALL SUB-CONTRACTORS AND ALL SPECIALIST CONTRACTORS.
- ALL NEW SUPPLY CABLING SHALL BE SUITABLY PROTECTED AND HOUSED WITHIN SUITABLY SIZED CONTAINMENT.
- ALL NEW CABLING SHALL BE FULLY LABELLED AT BOTH SOURCE AND DESTINATION INDICATING CIRCUIT REFERENCE. LABELLING SHALL BE 3mm BLACK LETTERING ON WHITE RAFFAOLYTE TYPE LABEL HELD IN POSITION BY TIE WRAP OR SIMILAR APPROVED BY THE ENGINEER.
- JUNCTION BOXES AND ANCILLARY EQUIPMENT SHALL BE LABELLED WITH SUPPLY REFERENCE.
- CONDUIT BOXES SHALL BE INSTALLED AT CHANGE IN DIRECTIONS.
- ALL NEW CABLING SHALL BE LSZH (LOW SMOKE ZERO HALOGEN) TYPE.
- ANY ALTERATIONS TO THE DESIGN REQUIRED, DUE TO SITE CONDITIONS AND CONSTRAINTS TO BE CONFIRMED WITH THE M&E DESIGNER.
- FOLLOWING THE INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL TEST CERTIFICATES IN ACCORDANCE WITH BS7671:2018. THESE SHALL BE INCLUDED WITHIN AN O&M MANUAL. AS-BUILT DRAWINGS SHALL ALSO BE PRODUCED AND PROVIDED FOR INCLUSION WITHIN THIS O&M.
- A LUX PLOT DRAWING SHALL BE PROVIDED FOLLOWING THE INSTALLATION. RESULTS DOCUMENTED SHALL INCLUDE AVERAGE LUX LEVEL AND UNIFORMITY AT FLOOR LEVEL.
- NEW CABLING HAS BE SIZED IN LINE WITH THE EXISTING SUPPLY CABLING TO THE EXISTING LIGHTING COLUMN. IT HAS BEEN CONFIRMED BY THE CLIENT TO PROCEED ON THE BASIS THAT THE SUPPLY CABLING IS SUFFICIENT TO EXTEND TO THE NEW LUMINAIRES. CONTRACTOR TO VERIFY & CARRY OUT CALCULATIONS TO CONFIRM SUITABILITY BEFORE INSTALLATION.
- LABELING TO BE INSTALLED ON EACH PROPOSED NEW LUMINAIRES AND TO BE IN LINE WITH MCC NUMBERING SYSTEM.

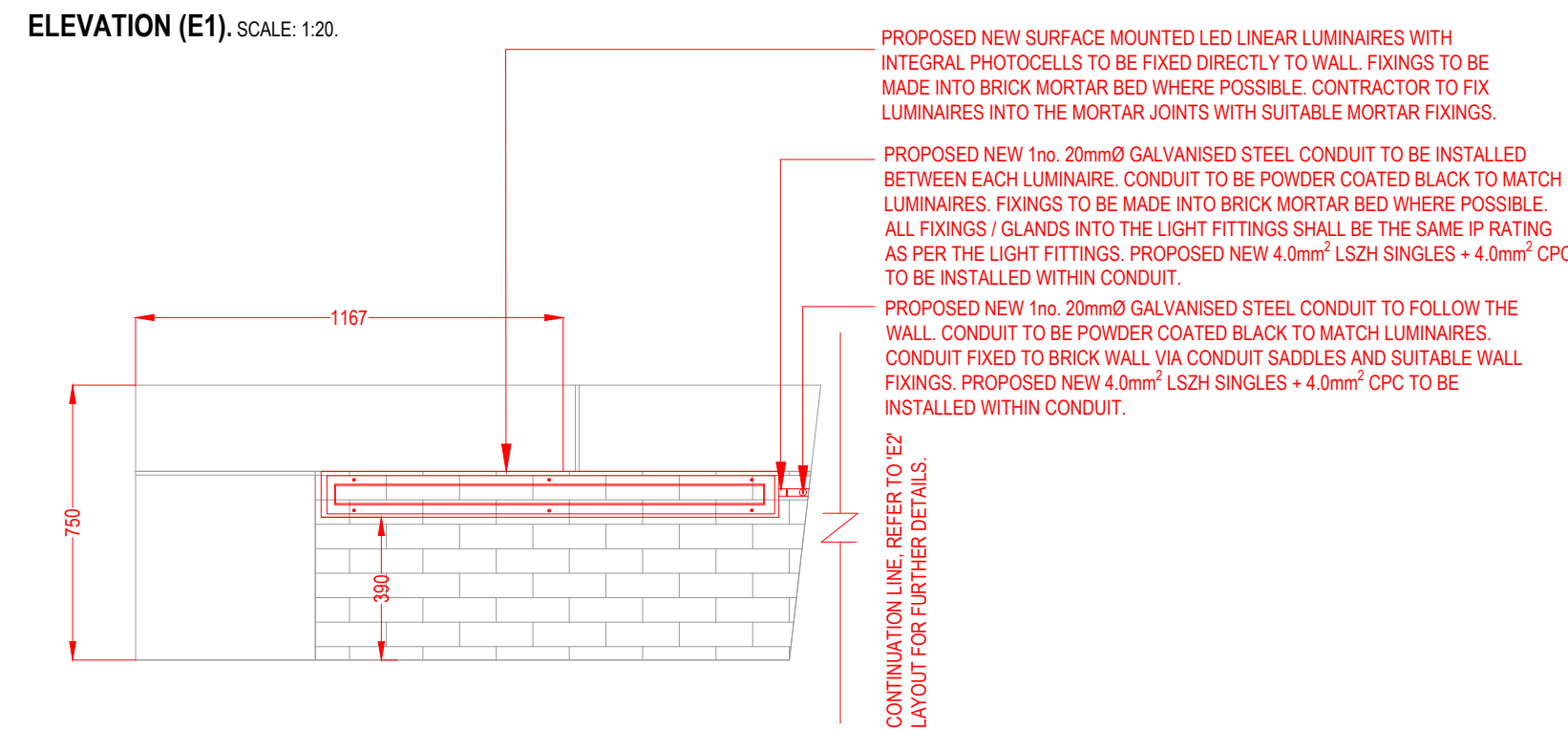
LOCATION PLAN.

SCALE: 1NTS.



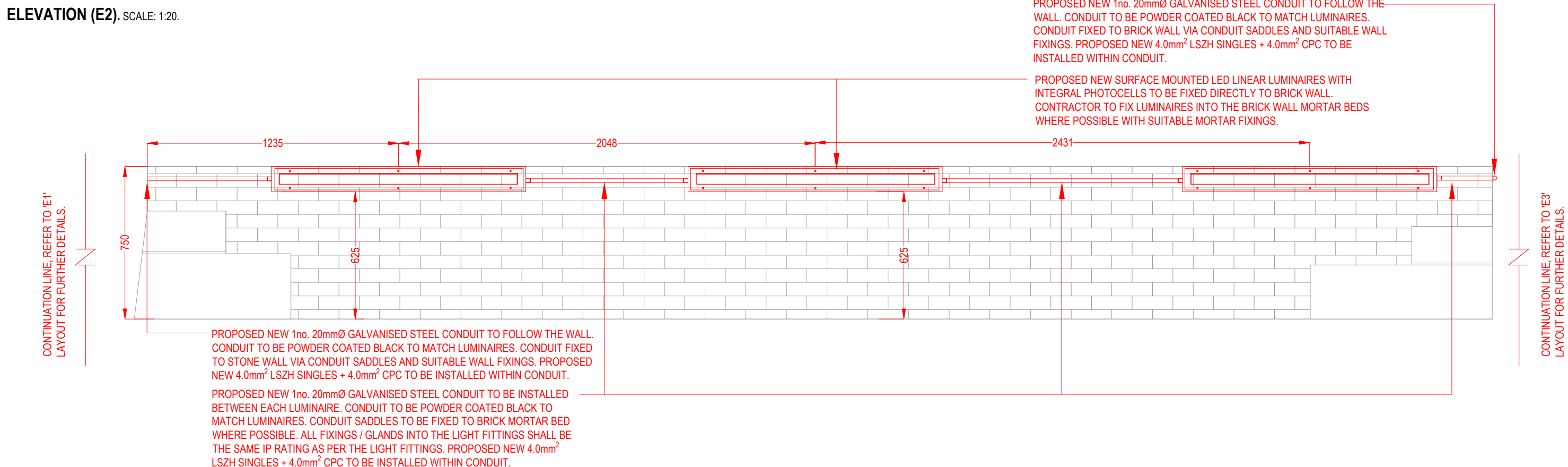
BESWICK STREET TOW PATH BRIDGE

ELEVATION (E1). SCALE: 1:20.



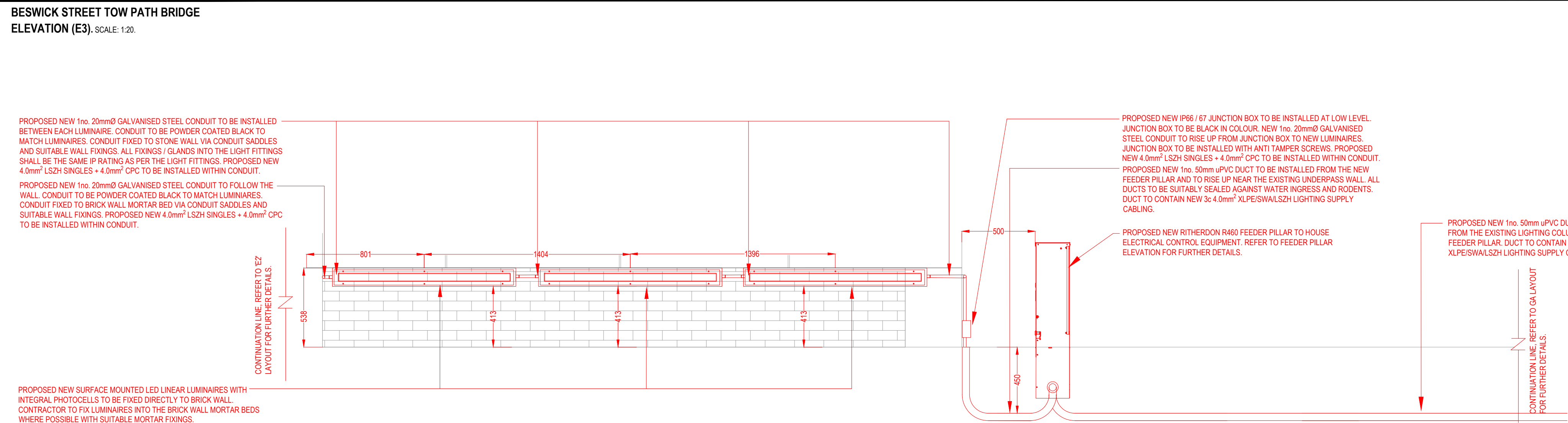
BESWICK STREET TOW PATH BRIDGE

ELEVATION (E2). SCALE: 1:20.



BESWICK STREET TOW PATH BRIDGE

ELEVATION (E3). SCALE: 1:20.



COLOUR CODE		DESCRIPTION
---	---	INDICATES NEW / PROPOSED.
---	---	INDICATES EXISTING TO BE MODIFIED / RELOCATED.
---	---	INDICATES EXISTING TO BE REMOVED.
---	---	INDICATES EXISTING TO REMAIN.

B02	SO	ME	07/08/2024	REVISED IN LINE WITH MCC PLANNING DEPARTMENT COMMENTS.
B01	SO	ME	02/08/2024	FOR APPROVAL
Rev	Drawn	App	Date	Description
Drawing Status:				

FOR APPROVAL

Client

Wilde Civil and Structural Engineers
Stockport | Liverpool | London

Project:

ASHTON CANEL BRIDGE SCHEME
LIGHTING INSTALLATION

Drawing Title:				
PROPOSED BESWICK STREET LAYOUT				
Designed	Shaun Davies	Signed		Date 07.08.2024
Drawn	Shaun Davies	Signed		Date 07.08.2024
Checked	Steve Preece	Signed		Date 07.08.2024
Approved	Mark Eldridge	Signed		Date 07.08.2024
Original Scale: AS SHOWN				Original Size: A1

Vitec

CARDIFF
2 Village Way,
Greenmoor Springs Bus. Pk.,
Indrestrade, Cardiff CF10 7HE.
Tel: 0300 020202
Email: vitec@vitecconsult.com

LONDON
12 Newcombe Place,
London E14 3JL
Tel: 0207 979 2005
Email: london@vitecconsult.com

Visit Us At: www.vitecconsult.com

Drawing No.	5125-VIT-DRG-EPT-000003	Rev.	B02
-------------	-------------------------	------	-----