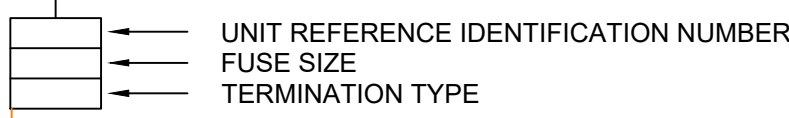


ELECTRICAL SCHEMATIC KEY

CIRCUIT REFERENCE	TERMINATION TYPE
FUSE TYPE	FUSE SIZE
CABLE SIZE AND TYPE	

EQUIPMENT DETAILS



← EARTH ELECTRODE (WHEN APPLICABLE)

ELECTRICAL SCHEMATIC DETAIL

FP01	T3
BS 88 Type 2	16A
6MM² 3 CORE CU XLPE/PVC/SWA/PVC	

PR01
6A
T2

PR02
6A
T1

FP02	T3
BS 88 Type 2	16A
6MM² 3 CORE CU XLPE/PVC/SWA/PVC	

PR03
6A
T2

PR04
6A
T1

PR05
6A
T1

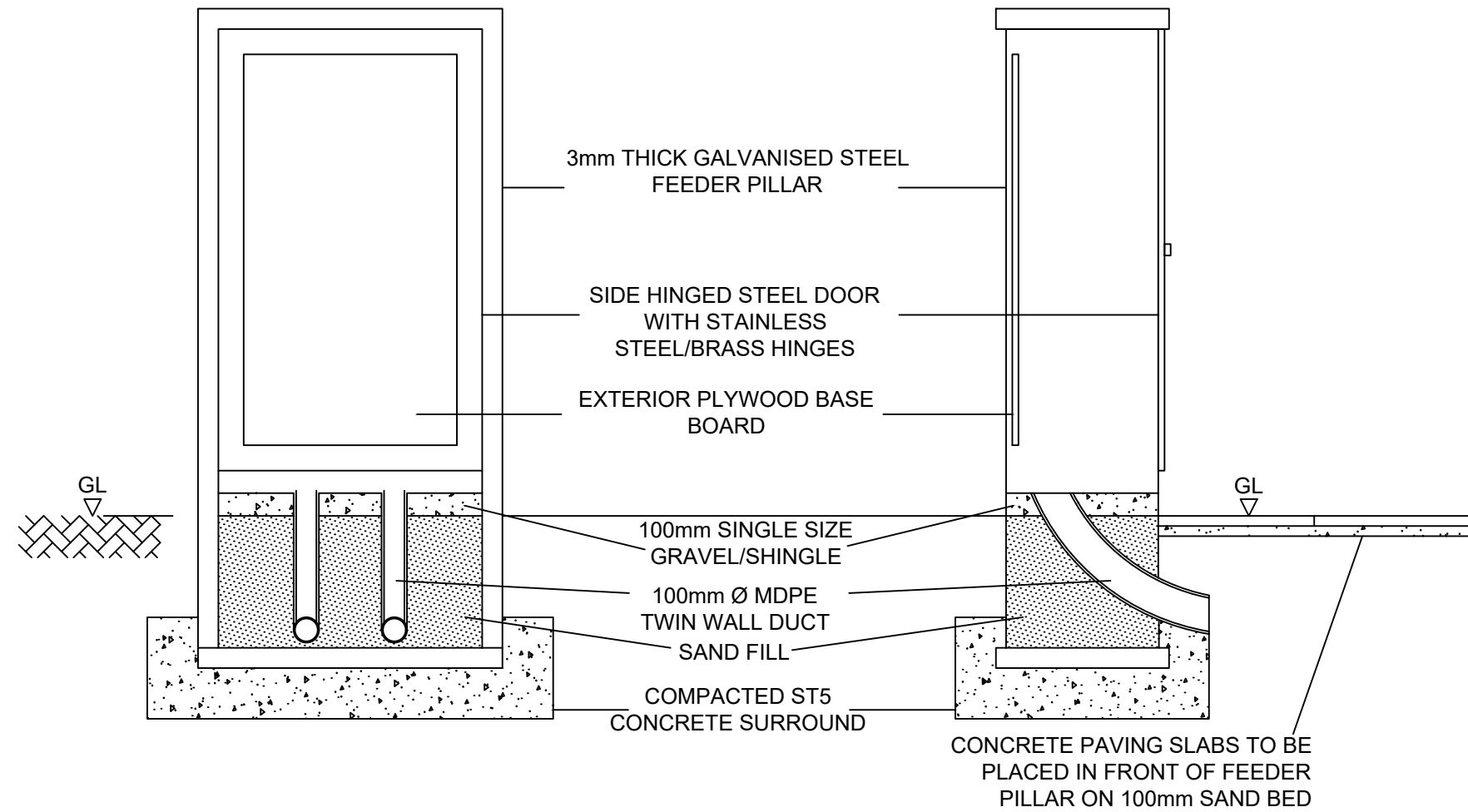
FP03	T3
BS 88 Type 2	16A
6MM² 3 CORE CU XLPE/PVC/SWA/PVC	

PR06
6A
T2

PR07
6A
T1

TYPICAL STREET LIGHTING FEEDER PILLAR

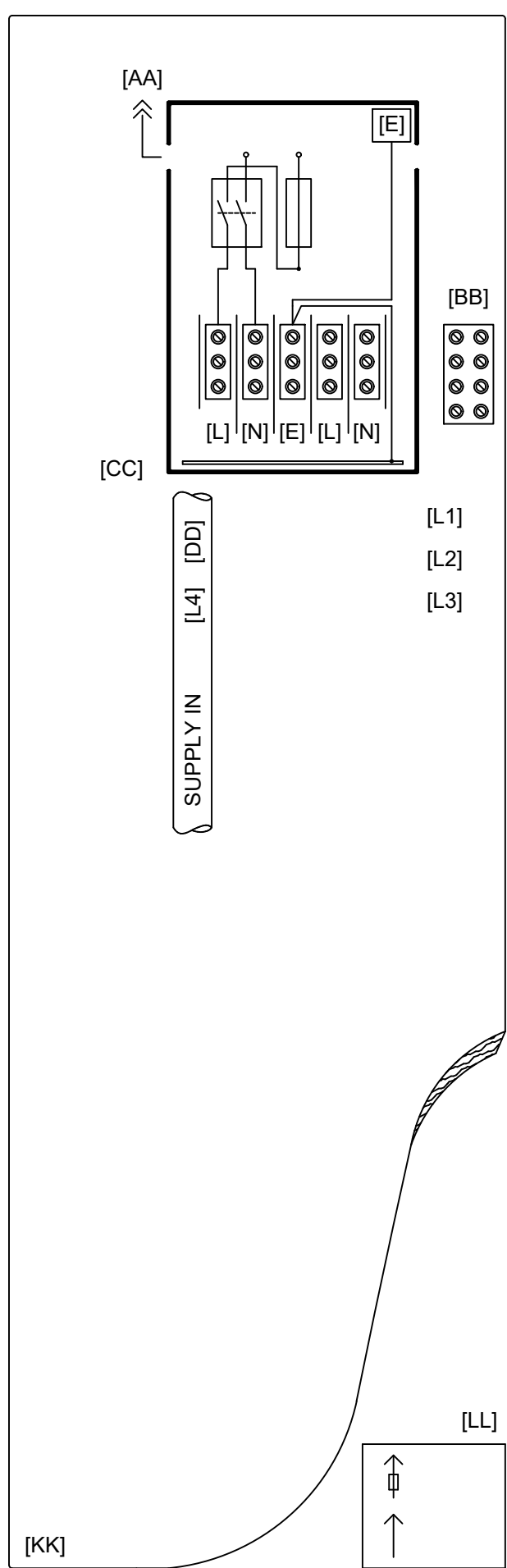
REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION DETAIL AND SPECIFICATION



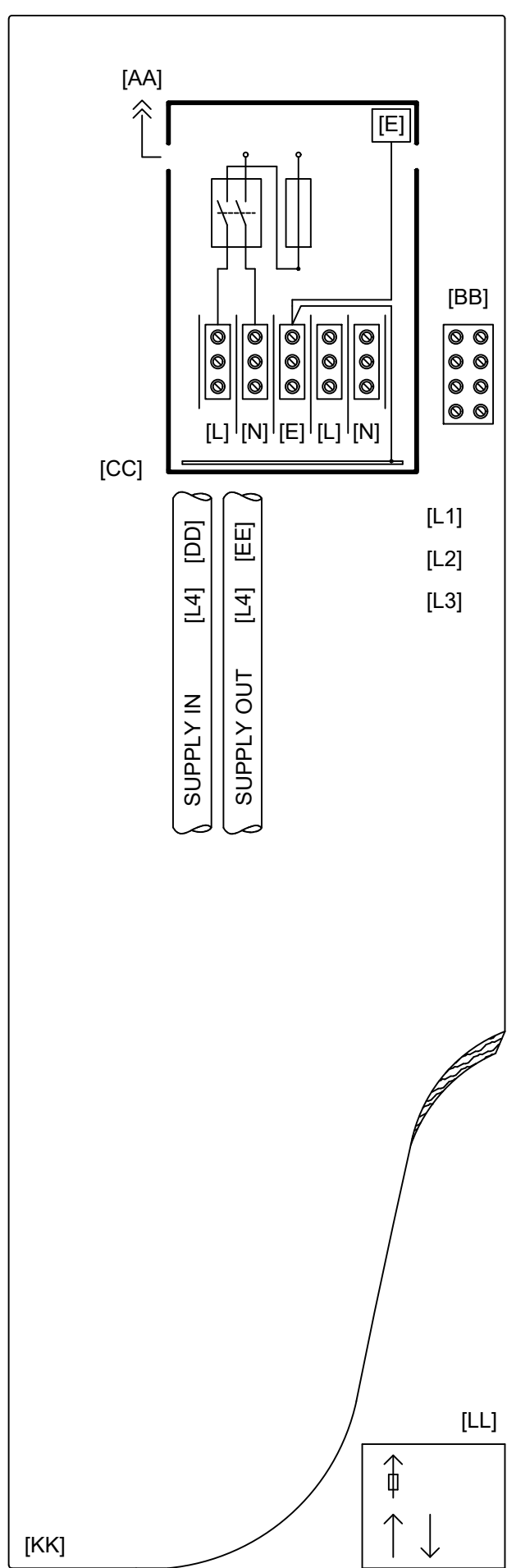
TERMINATION KEY

ITEM	DESCRIPTION
[AA]	CABLE TO LIGHTING UNIT.
[BB]	BRASS EARTH BLOCK WITH INDIVIDUAL PVC 6491X GREEN/YELLOW EARTH CABLES BONDED TO THE FOLLOWING COMPONENTS: > CUT-OUT GLAND PLATE > BASE COMPARTMENT DOOR; > BASE COMPARTMENT MAIN EARTH STUD; > DISTRIBUTION NETWORK OPERATOR CUT-OUT. (ALL EARTH CABLES SHALL BE SIZED IN ACCORDANCE WITH BS7671:2008)
[CC]	CUT-OUT INCORPORATING THE FOLLOWING COMPONENTS: > DOUBLE POLE ISOLATION SWITCH; > OUTGOING WAYS FUSED USING BS88 FUSE LINKS. > EXTENSION BOX WITH TERMINAL BLOCK; > 3mm BRASS GLAND PLATE WITH 3no. INCOMING/OUTGOING WAYS. > BRASS CABLE GLANDS COMPLYING WITH BS6121, TYPE CW. NATURAL RUBBER CABLE GROMMETS.
[DD]	INCOMING PRIVATE SUPPLY CABLE.
[EE]	OUTGOING PRIVATE SUPPLY CABLE.
[FF]	OUTGOING PRIVATE SUPPLY CABLE FUSED.
[GG]	6mm² PVC/PVC 6181Y SINGLES.
[HH]	(INDEPENDENT) DISTRIBUTION NETWORK OPERATOR CUT-OUT.
[JJ]	(INDEPENDENT) DISTRIBUTION NETWORK OPERATOR SUPPLY CABLE.
[KK]	BASE COMPARTMENT BACKBOARD.
[LL]	SCHEMATIC REPRESENTATION OF TERMINATION ARRANGEMENT.
[NN]	25mm² PVC/PVC 6181Y SINGLES.
[OO]	MINI PILLAR BACKBOARD.
[PP]	4 WAY SP&N DISTRIBUTION BOARD INCORPORATING THE FOLLOWING COMPONENTS: > METAL CLAD CASE. > DOUBLE POLE ISOLATION SWITCH. > BS88 FUSE LINKS. > BRASS CABLE GLAND COMPLYING WITH BS6121 TYPE CW REQUIRED FOR EACH OUTGOING WAY. > NATURAL RUBBER GROMMET FOR INCOMING CABLES [GG & NN].
[QQ]	SURGE PROTECTION DEVICE (TYPE 2)
[L1]	EARTH BLOCK LABEL "SAFETY ELECTRICAL CONNECTION - DO NOT REMOVE"
[L2]	PME WARNING LABEL "WARNING PME SERVICE POINT"
[L3]	PME WARNING LABEL "PRIVATE CABLE NETWORK LOOPED VIA PME SERVICE POINT"
[L4]	SOURCE/DESTINATION IDENTIFICATION MARKER
Notes	
1	REF. [DD], [EE] & [FF] - CABLE SHALL BE CLEATED TO THE BASE COMPARTMENT BACKBOARD APPROX. 200mm BELOW CUT-OUT.
2	REF. [DD], [EE] & [FF] - CABLE TYPE AS DEFINED ON EACH TERMINATION DRAWING.
3	REF. [AA] - A DRIP LOOP SHALL BE FORMED IN THE CABLE USING A BLACK TIE WRAP.
4	LABELS [L2],[L3] SHALL BE INSTALLED WHERE APPLICABLE TO THE ELECTRICAL INSTALLATION.
5	LABEL [L1] SHALL BE INSTALLED ADJACENT TO THE EARTH BLOCK [BB]

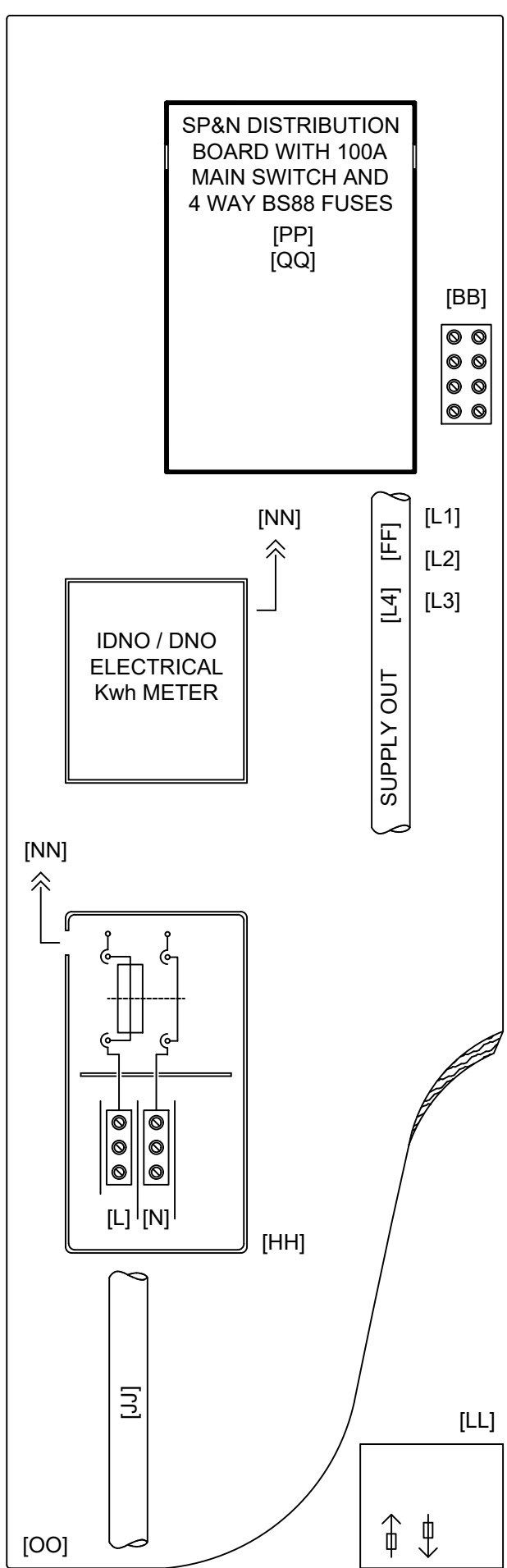
TERMINATION TYPE: 1



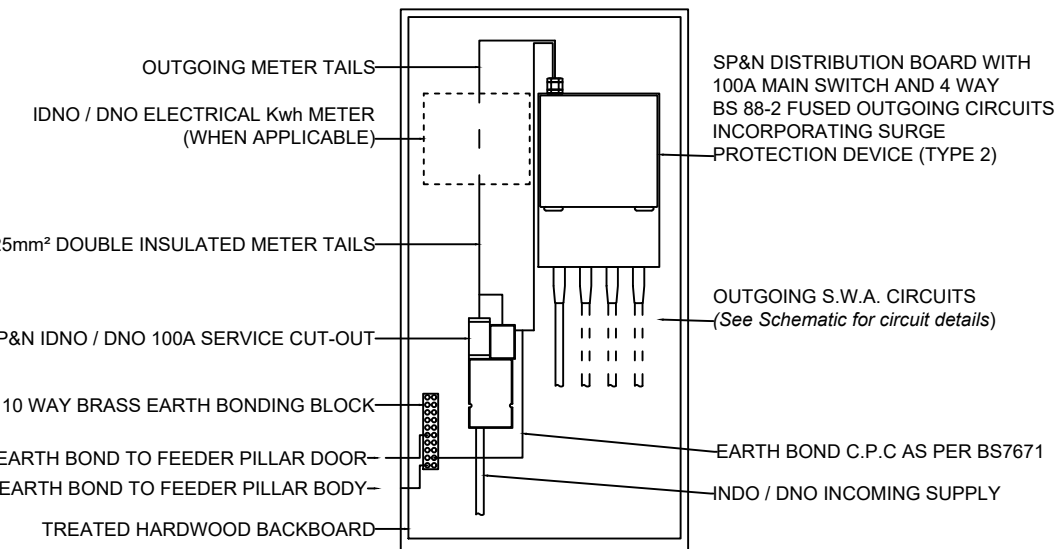
TERMINATION TYPE: 2



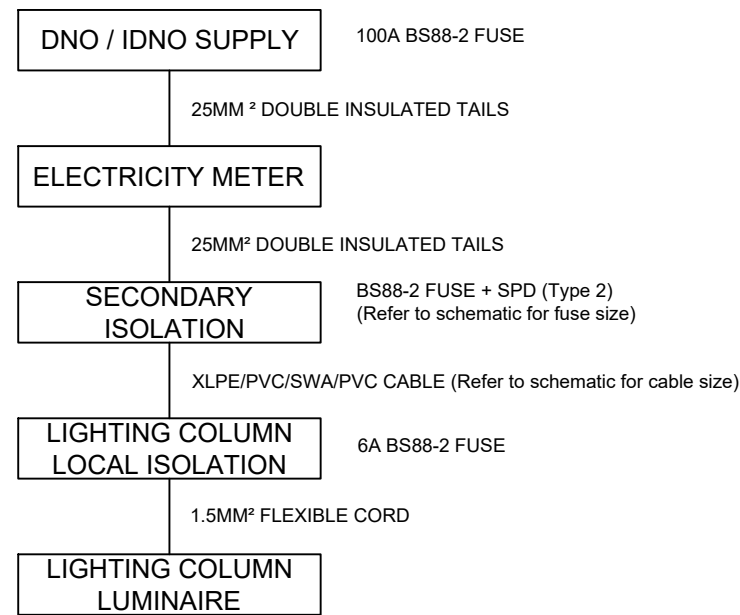
TERMINATION TYPE: 3



METERED FEEDER PILLAR DETAIL



METERED FEEDER PILLAR - SCHEMATIC



GENERAL NOTES

- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
- In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
- SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
- This lighting design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.

NOTES

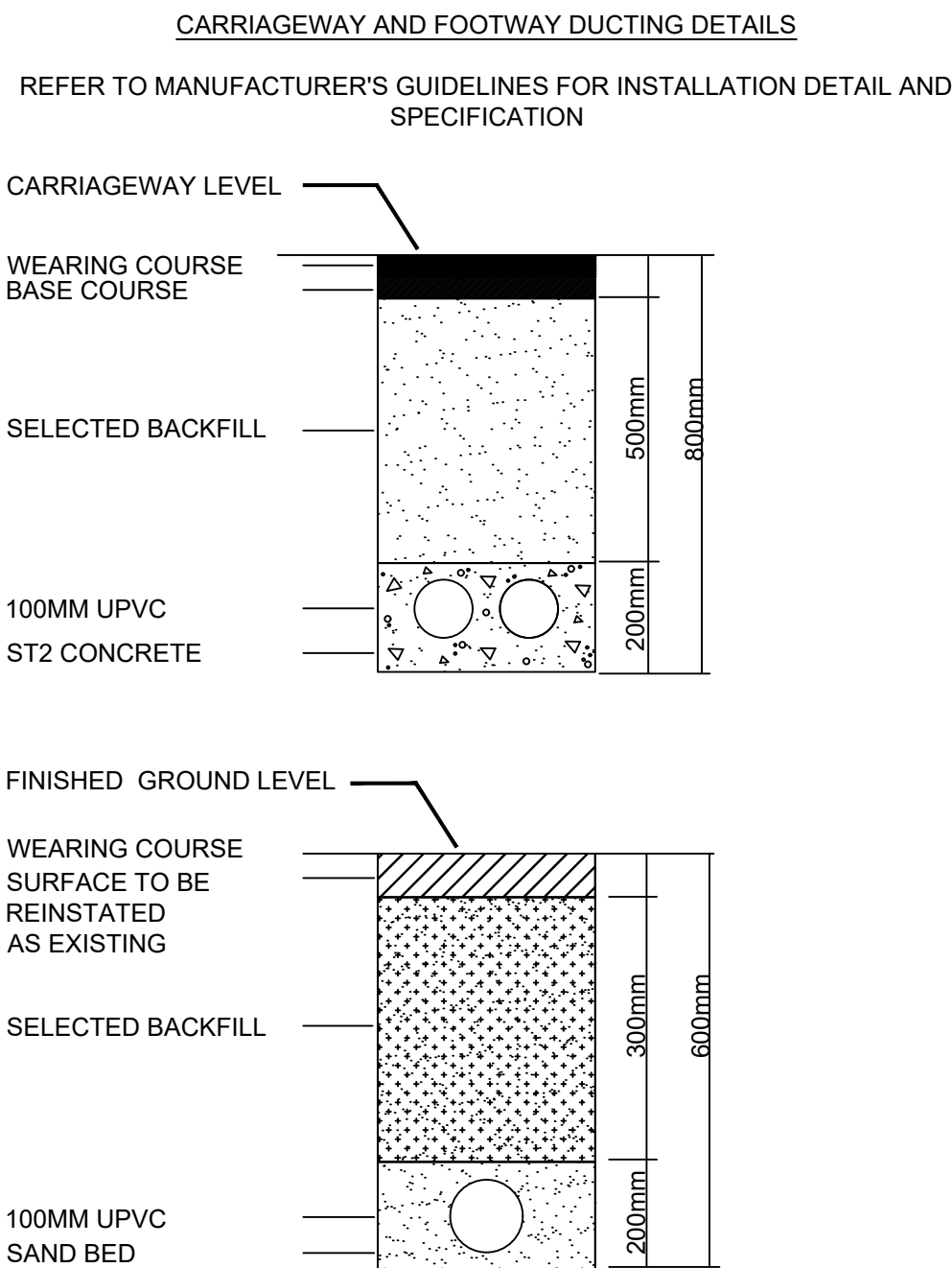
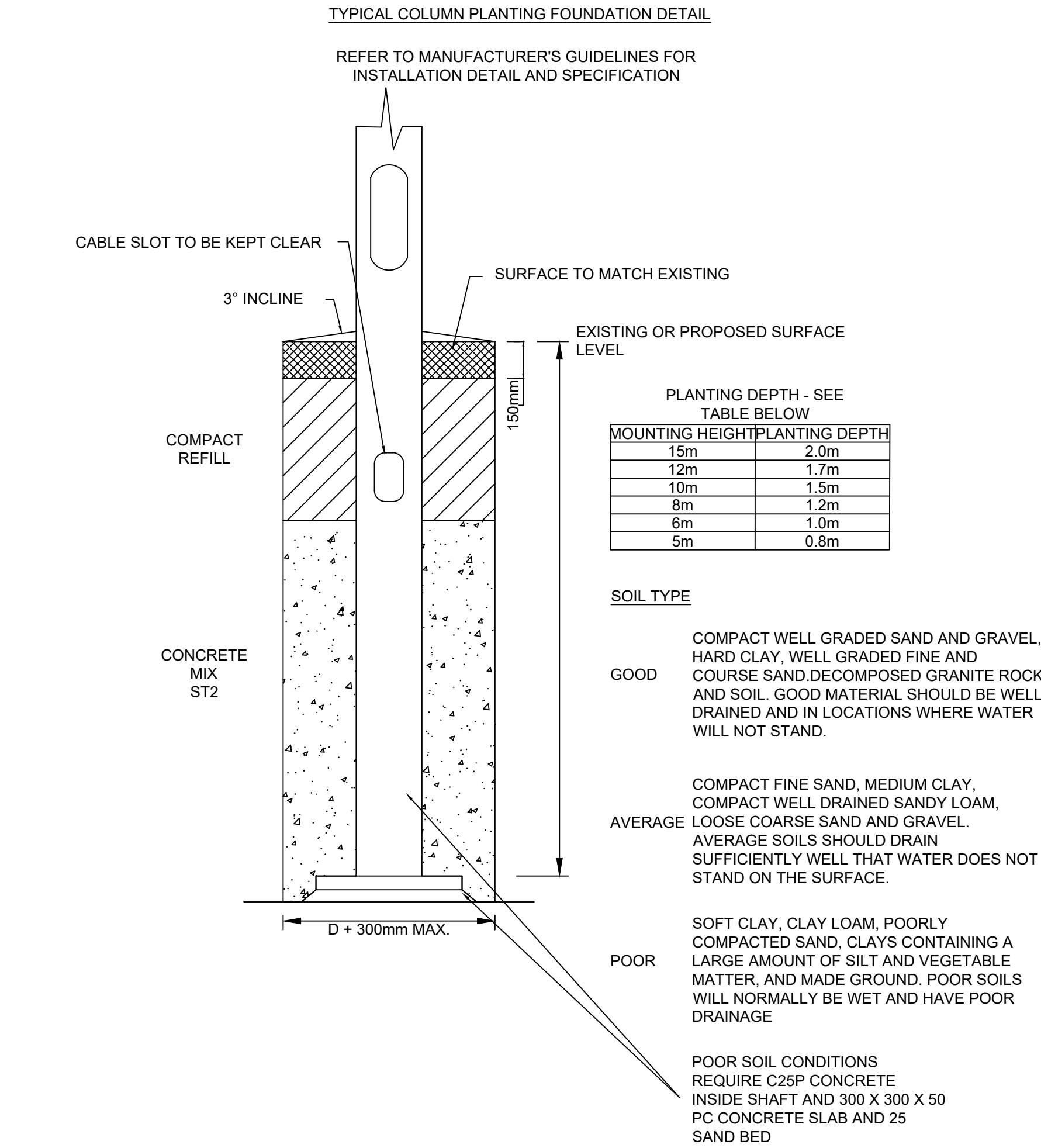
- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such.
- Any inaccuracies are to be reported to the overseeing organisation immediately.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the street lighting column locations will take precedence in order to satisfy the requirements of the British Standard.
- The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation and no account has been taken for the blocking effect caused by buildings, trees, etc.
- Final lighting unit positions shall be agreed onsite with the overseeing organisation.
- Lighting unit foundations shall be designed in accordance with the manufacturer datasheet's for the columns and soil types present.
- Lighting columns shall be located to the rear of the footpath or verge, unless stated otherwise. If this is not possible the minimum setback distance for any lighting column to be erected from the kerb face shall be 800mm.
- Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers.
- Lighting unit positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers approval.
- The developer will be required to arrange payment for any energy liability charges with their electricity supplier and will be responsible, unconditionally, for the condition, operation and any risk or liability of all the street lighting equipment on all privately owned sections of the development.

STATUTORY SERVICE NOTES

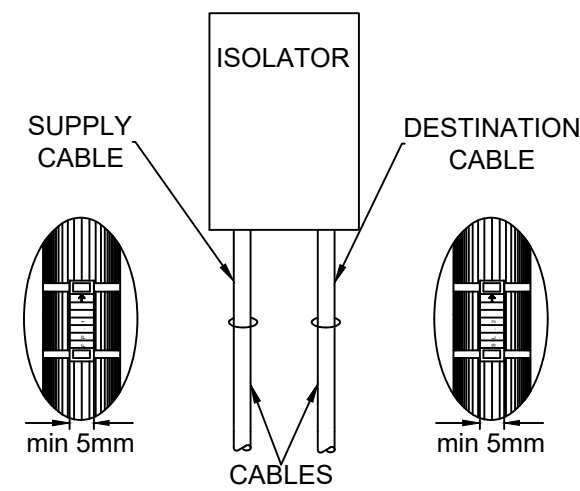
- Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
- It should be assumed by the contractor that not all services have been identified during the design period. It is the responsibility of the contractor to ensure that all unidentified services are carefully located and reported.
- The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for further guidance.
- All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6 "Avoidance of danger from overhead power lines"
- Installation and removal works should be carried out in accordance with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health and Safety Executive regulations.
- All works in the vicinity of underground mains or cables shall conform to the requirements of Health and Safety Executive, Health and Safety Guidance HSG477 "Avoiding danger from underground services" and any additional requirements specified by the relevant undertaker.
- The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works programme.

The details provided on this drawing are subject to comments by all relevant approving authorities and/or any overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority and/or any overseeing organisation. It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. This drawing should not be used for construction or procurement of materials in any way until technical approval is received. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.

R0	INITIAL DESIGN FOR REVIEW AND COMMENT	24/04/2025	SRH
REV	DESCRIPTION	DATE	BY
info@shdlighting.co.uk ☎ 07834 490 192 🌐 www.shdlighting.co.uk			
PROJECT:	LICKERS LANE, HALSNEAD		
DRAWING:	PRIVATE LIGHTING DESIGN ELECTRICAL		
CLIENT:	VISTRY (MERSEYSIDE)		
DRAWING NUMBER:	SHD2082-SHD-H&L-LICK-D&R-EO-Electrical-R0	DRAWN:	SRH
	SHEET 1 OF 2	CHECKED:	SRH
		APPROVED:	
CONTRACT NUMBER:	SHD2082	DATE:	24/04/2025
		SCALE @ A1:	N.T.S
		REVISION:	R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			



SOURCE/DESTINATION LABELLING DETAIL



LABELLING NOTES:

- ALL CABLES SHALL BE MARKED TO INDICATE THE SUPPLY SOURCE/DESTINATION. FINAL DETAILS TO BE SPECIFIED BY THE OVERSEEING ORGANISATION.
- ALL CABLE MARKERS SHALL BE BLACK ON WHITE BACKGROUND AND SHALL BE MANUFACTURED FROM PLASTICIZED PVC AND HELD IN POSITION WITH BLACK PLASTIC TIE WRAP OR SIMILAR APPROVED THE OVERSEEING ORGANISATION.

GENERAL NOTES

- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
- In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
- SHD Lighting Consultancy Ltd accept no liability in the event of not being notified and where construction work has commenced.
- This lighting design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties and roles - 9. Duties of designers.

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- All drawings and documents are to be read in conjunction with one another and are mutually compatible and shall be read as such.
- Any inaccuracies are to be reported to the overseeing organisation immediately.
- The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
- The planting of trees near to lighting columns is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features. Where such instances occur the street lighting column locations will take precedence in order to satisfy the requirements of the British Standard.
- The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation and no account has been taken for the blocking effect caused by buildings, trees, etc.
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STATUTORY SERVICE NOTES

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- Installation and removal works should be carried out in accordance with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health and Safety Executive regulations.
- All works in the vicinity of underground mains or cables shall conform to the requirements of Health and Safety Executive, Health and Safety Guidance HSG47 "Avoiding danger from underground services" and any additional requirements specified by the relevant undertaker.
- The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works programme.

The details provided on this drawing are subject to comments by all relevant approving authorities and/or any overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority and/or any overseeing organisation. It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. This drawing should not be used for construction or procurement of materials in any way until technical approval is received. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability shall be accepted by SHD Lighting Consultancy Ltd.

R0	INITIAL DESIGN FOR REVIEW AND COMMENT	24/04/2025	SRH
REV	DESCRIPTION	DATE	BY



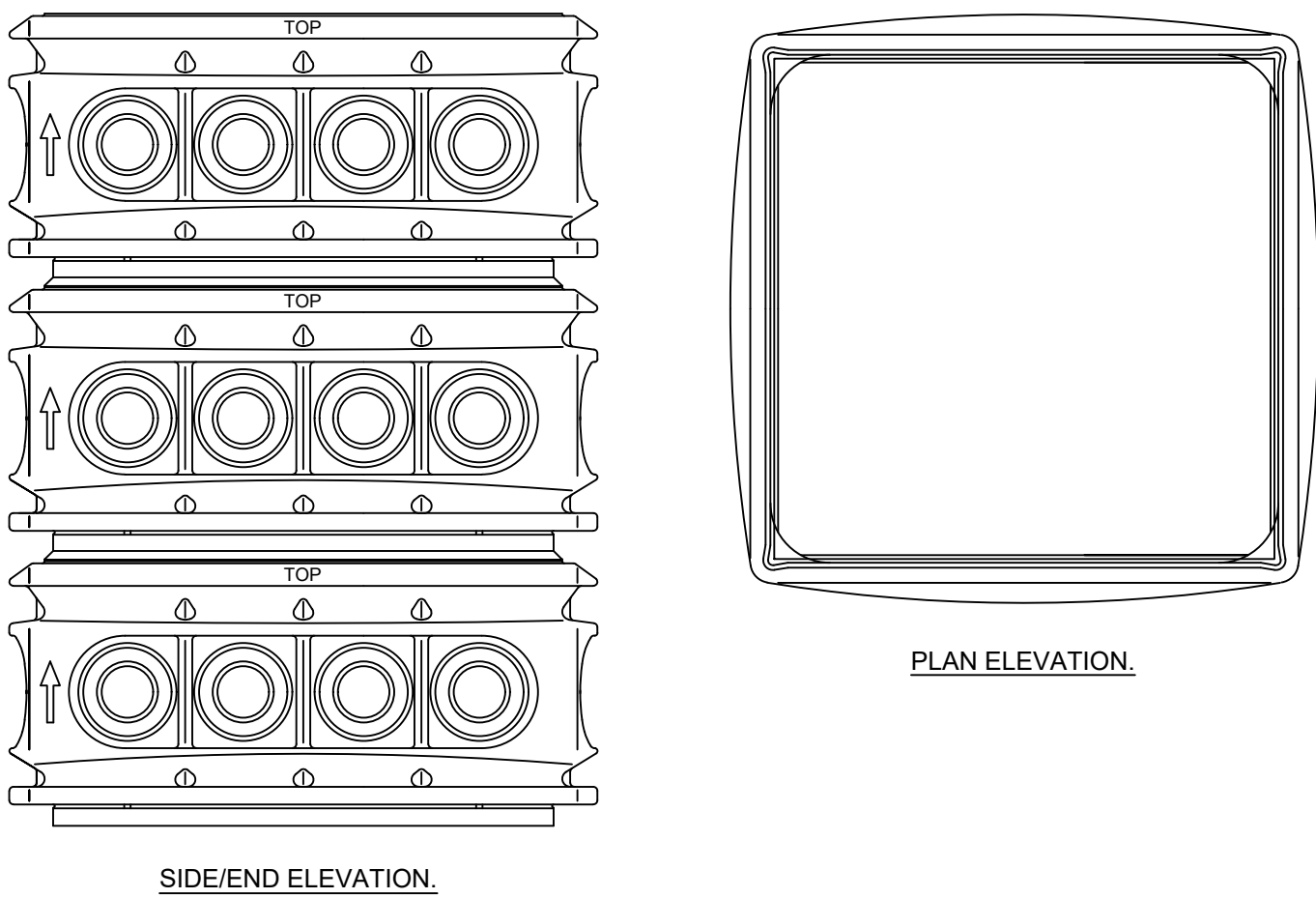
info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk

PROJECT:	LICKERS LANE, HALSNEAD		
DRAWING:	PRIVATE LIGHTING DESIGN ELECTRICAL		
CLIENT:	VISTRY (MERSEYSIDE)		
DRAWING NUMBER:	SHD2082-SHD-HEL-LICK-DR-EO-Electrical-R0	DRAWN:	SRH
	SHEET 2 OF 2	CHECKED:	SRH
CONTRACT NUMBER:	SHD2082	APPROVED:	
	DATE: 24/04/2025	SCALE @ A1	N.T.S
		REVISION:	R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			

PROPOSED CHAMBER AND DUCT DETAIL

REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION DETAIL AND SPECIFICATION

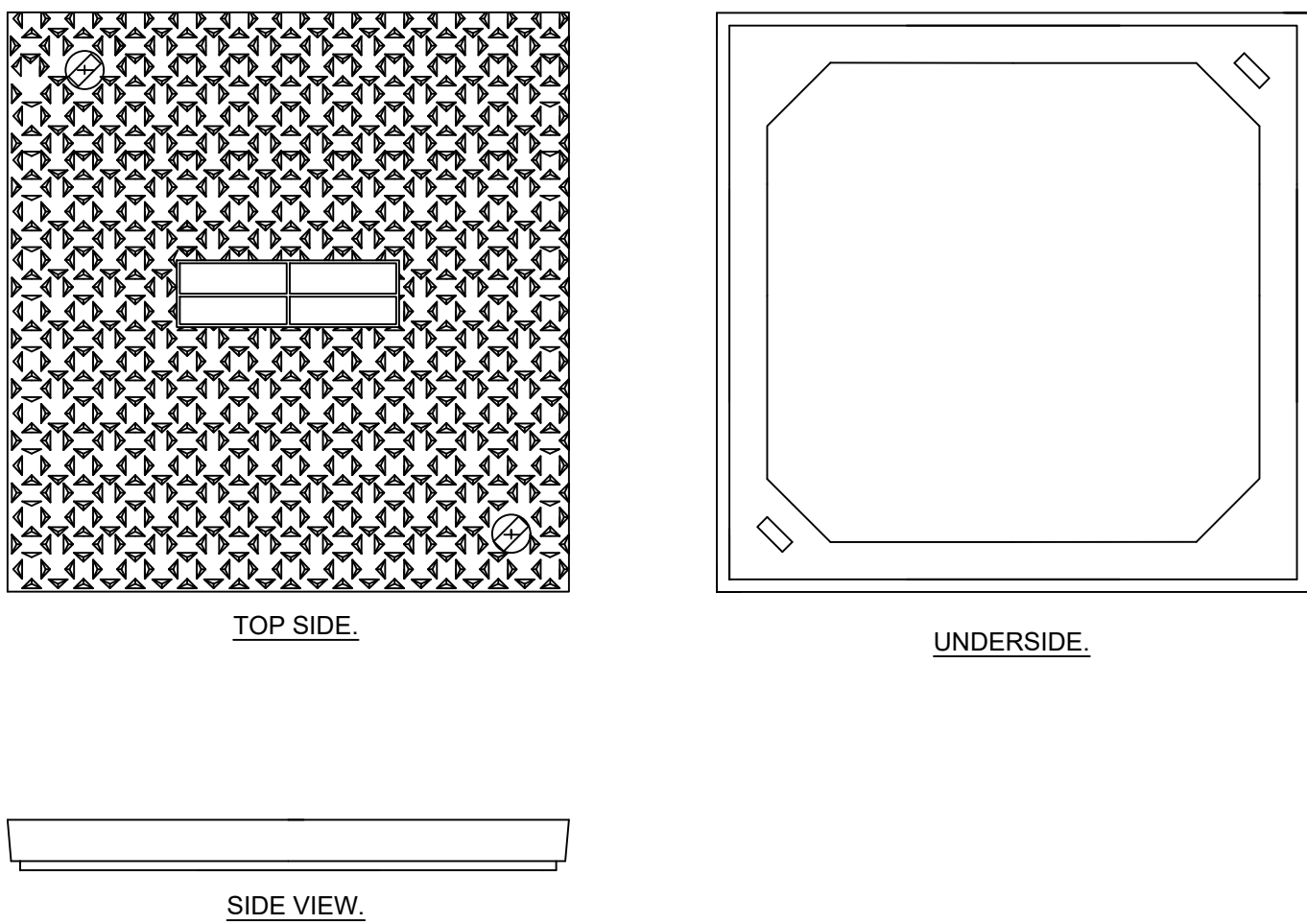
3 STACK ACCESS CHAMBER



SPECIFICATION CLAUSE

THE CHAMBER SHALL BE OF SOLID CONSTRUCTION OF (TRIPLE) CONSTRUCTION TO MEET THE HIGHWAY REGULATION OF (750MM) COVER. THE CHAMBER SHALL HAVE PRE- TREPANED KNOCKOUT AREAS TO ACCEPT (50MM/100MM) INTERNAL DIAMETER STANDARD 5MM THICK WALL DUCTING (FLEX-E-DUCT/ TWIN WALL). THE CHAMBER SHALL BE MANUFACTURED BY ROTATIONAL MouldING AND WHEN INSTALLED IN A WELL-COMPACTED SURROUND SHALL WITHSTAND 50 KN SHEER LOADING AND SIDE WALL LOADING OF 50 KN.

MULTI-DIRECTIONAL ANTI-SLIP COMPOSITE COVER



SPECIFICATION CLAUSE

COMPOSITE MANHOLE COVER SHALL BE BLACK, (SIZE), BADGED (BADGING) MADE FROM STRUCTURAL MouldING COMPOSITE MATERIAL WITH AVERAGE SKID RESISTANT VALUES (SRV) OF DRY 84, WET 50. THE COVER SHALL HAVE A SURFACE PROFILE TO REDUCE FOOT AND VEHICLE CONTACT WITH SLIP LUBRICANTS. COVER/FRAME UNIT SHALL BE LOCKED AS STANDARD AND MEET THE REQUIREMENTS OF EN 124 B125. THE COVER SHALL WEIGH LESS THAN 25KG.

NOTE:

BLANK QUARTER OF THE BADGE SHALL READ: STREET LIGHTING