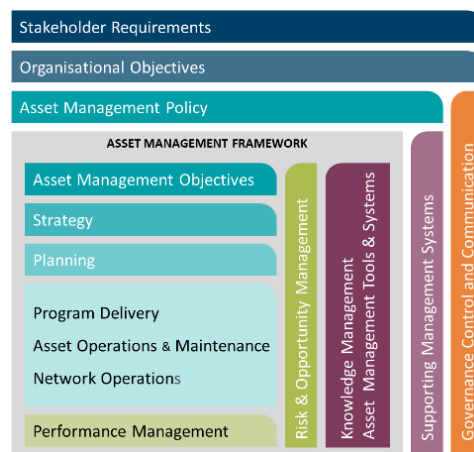


Western Power's Asset Management System

Distribution Construction Standard Handbook Streetlighting Part 08 (S)



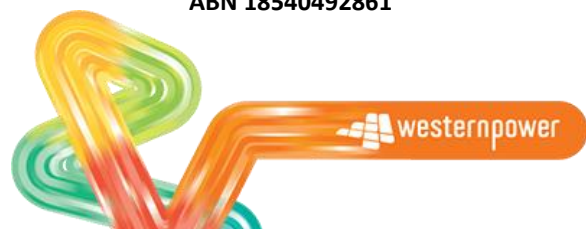
Original Issue: November 2003

Content Owner/Custodian: Distribution Design and Standards

This Revision: 1 – April 2025

Date for Next Review: April 2028

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Document control

Endorsement approvals

	Name	Title	Signature and Date
Compiled by	Nory Cerrado	Distribution Draftsperson	Signature on file
Checked by	Chris Omodei	Principal Engineer	Signature on file
Endorsed by	Ken Tiong	Team Leader	Signature on file
Approved by	Pep Ngwenya	Distribution Design & Standards Manager	Signature on file

Record of revisions

Revision No.	Date	EDM Version	Compiled by	Description
1	01/04/2025	17	Nory Cerrado	First Revision with new Format and 3 yearly review

This document gives direction to and influences the following documents.

Doc	Title of document
ALL CHAPTERS	DDC - DISTRIBUTION DESIGN CATALOGUE
ALL CHAPTERS	DCSH - DISTRIBUTION CONSTRUCTION STANDARD HANDBOOK
ALL CHAPTERS	DSPM - DISTRIBUTION SUBSTATION PLANT MANUAL

Stakeholders (people that were consulted when document was updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations – Customer Connection Services

Business and Customer Service – Customer Service

Notification list (people to be notified when document is updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations – Customer Connection Services

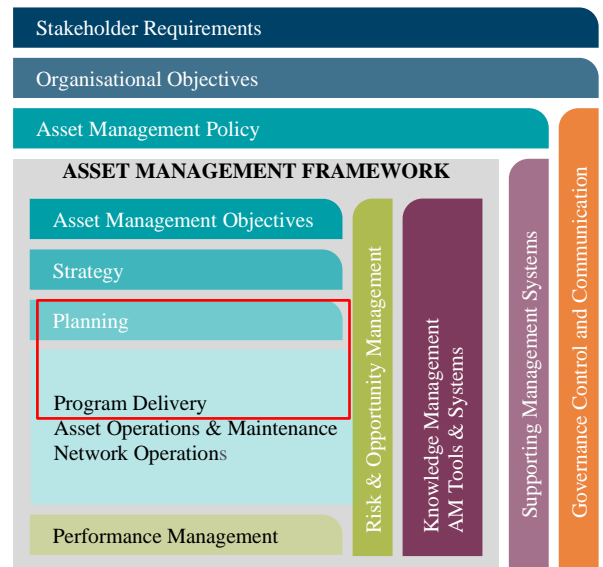
Business and Customer Service – Customer Service

This document must not be made available to personnel outside Western Power without the prior written approval of Western Power.

Document classification and hierarchy

A key requirement of the Western Power Asset Management Policy (AMP) is to develop and maintain an Asset Management System (AMS). This Distribution Substation Plant Manual is defined as a technical document within the AMS document classification and structure and sits within the planning and Program Delivery components of the AMS.

The AMS and the interrelationships between the collection of documents, tools and systems that are used for asset management are described in the AMS document EDM# [40304923](#).



General Notes

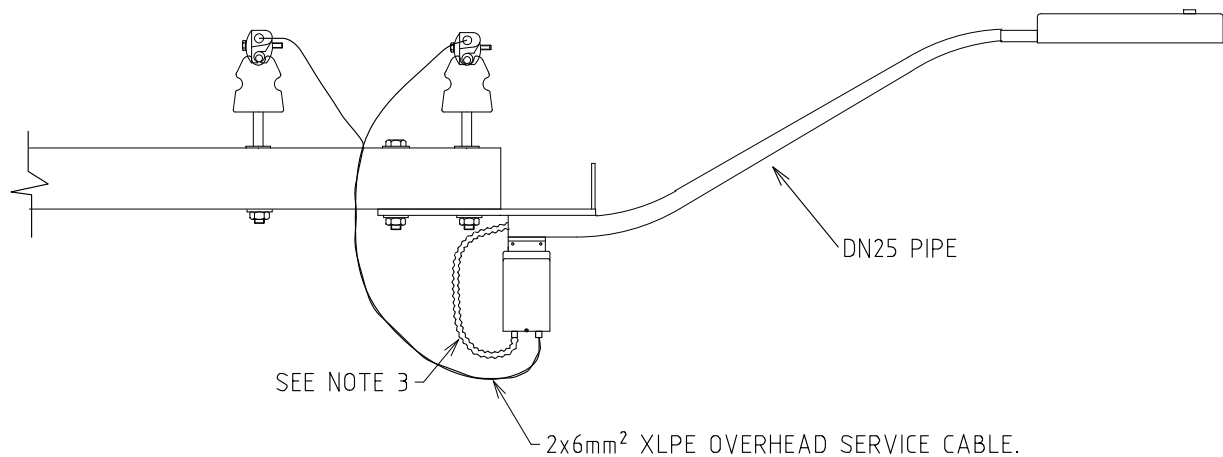
The streetlight column burial depth indicated on drawings S8 – S15 shall be applied as a guide and may vary between manufacturers. A ground line indicator is present on installed poles to be used for quality compliance inspection.

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Drawing Register

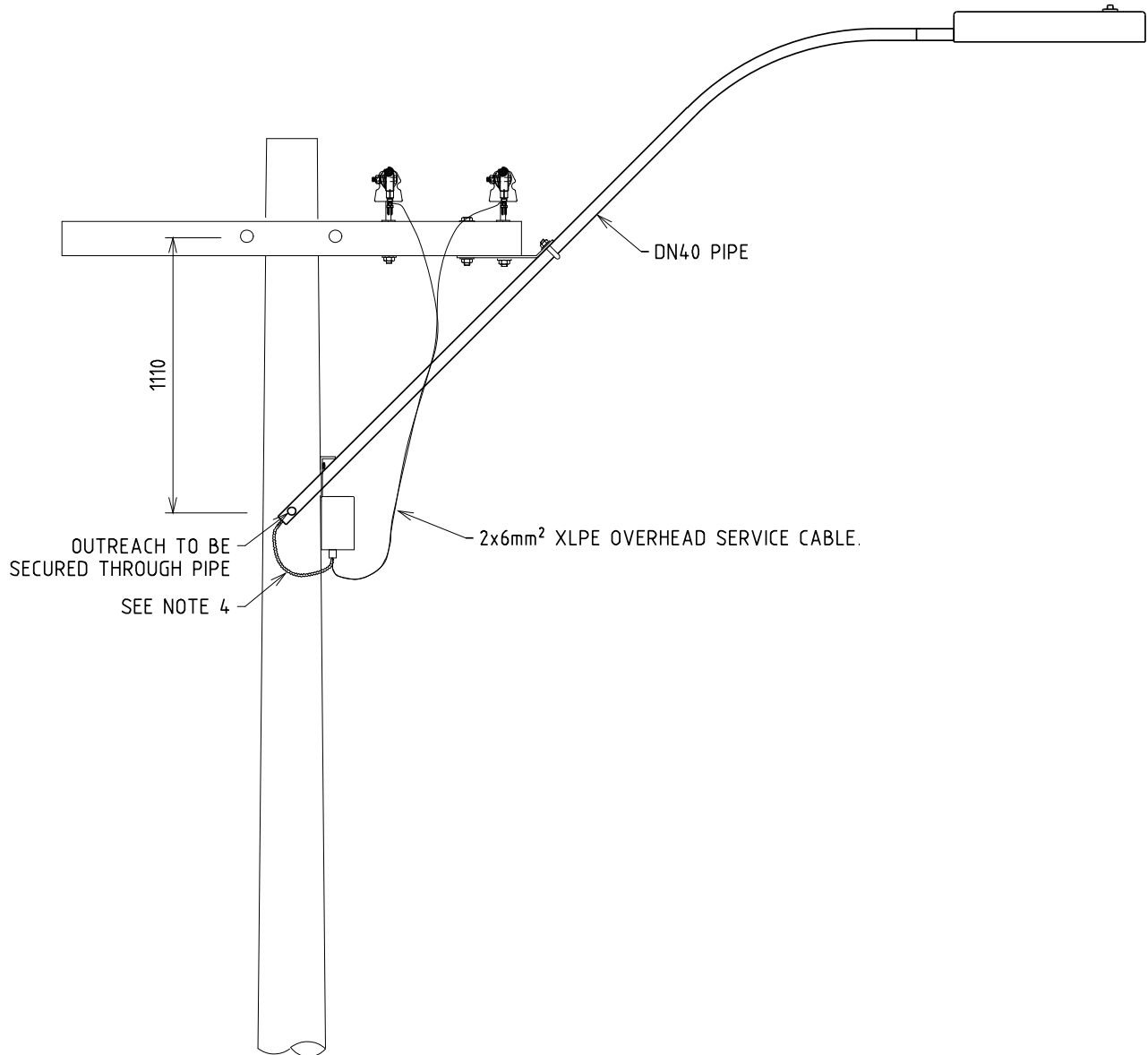
Number	Revision	Description
S02	J	Minor Road, Wood or Concrete Pole with Crossarm
S03	H	Arterial Road, Wood Pole with Crossarm
S05	I	Arterial Road, Concrete Pole with Crossarm
S06	K	Arterial Road, For ABC
S07	J	Minor Road, For ABC
S08	D	Single Outreach Steel Standard – 6.5m
S09	D	Single Outreach Steel Standard – 10.5m
S10	D	Double Outreach Steel Standard – 10.5m
S11	D	Single Outreach Steel Standard – 12.5m
S12	D	Double Outreach Steel Standard – 12.5m
S19	H	Streetlight Feed Minor Road
S20	K	Streetlight Feed Arterial Road



NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH CONDUCTOR.
3. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

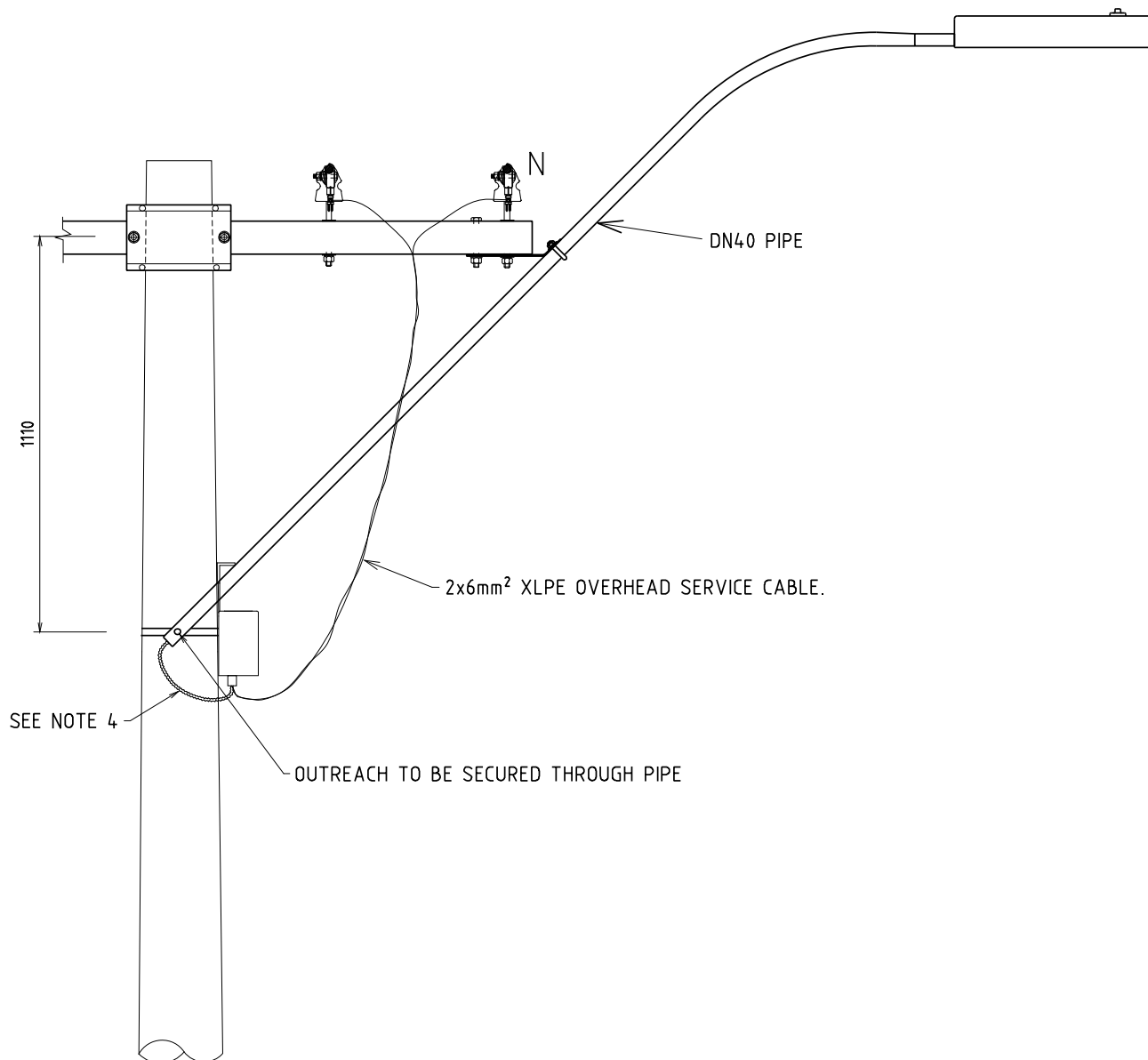
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J	21.07.21	LED LUMINAIRE SHAPE MODIFIED	REE	CO	GS	TITLE MINOR ROAD WOOD OR CONCRETE POLE WITH CROSSARM	DRAWN: JRR		DATE: 25-03-2014		DRG. No.		
H	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS		ORIGINATED:		SCALE: NTS		S02		
G	10.09.19	NOTES AND DRAWING No. REVISED	REE	NN	GS		CHECKED: REE						
F	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		APPROVED:		GRANT STACY				
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.						REV. J		
											SHT.		



NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. CAN BE USED FOR MINOR ROADS WHERE THE DISTANCE BETWEEN CARRIAGEWAY AND POLE EXCEEDS 2.3m.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
4. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

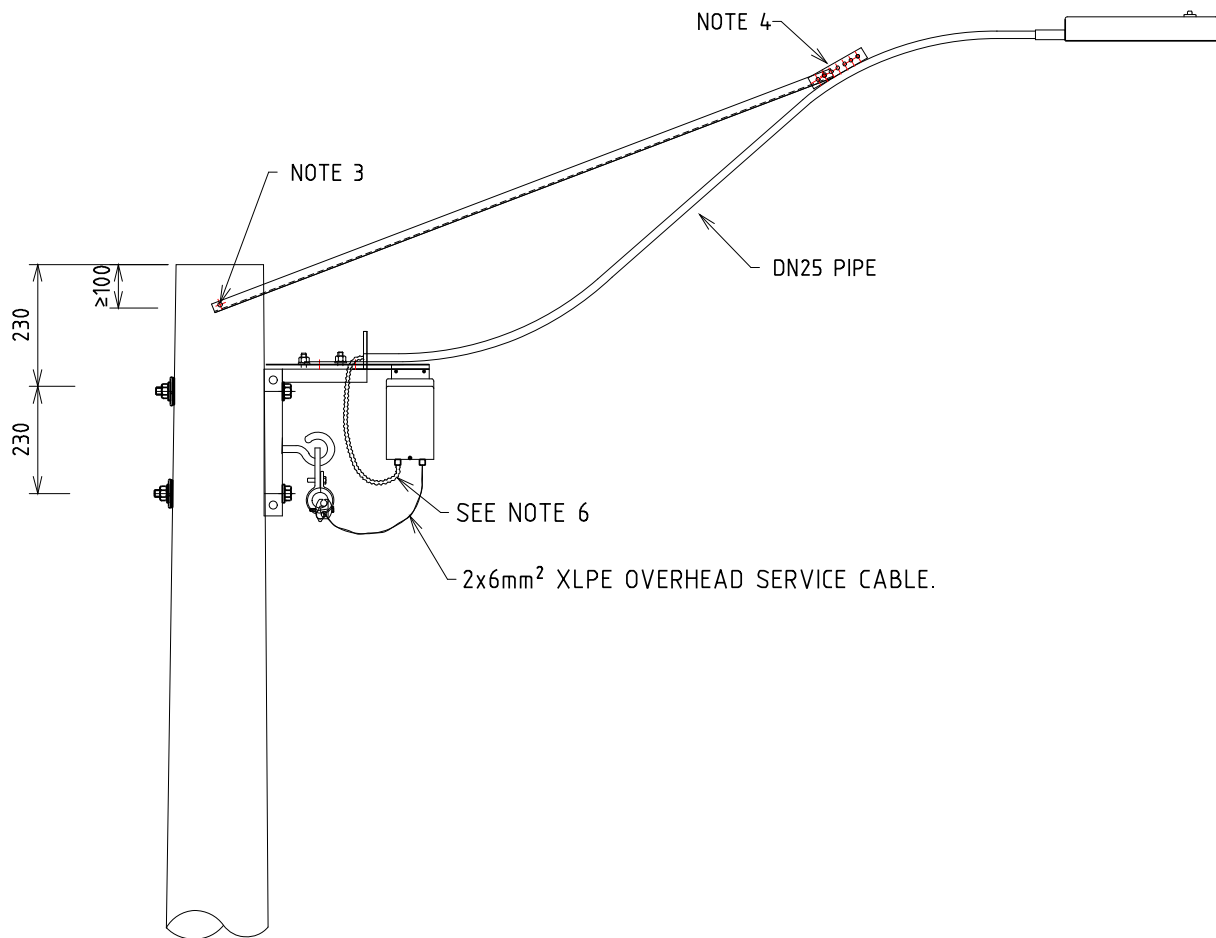
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G	10.09.19	NOTE AND DRAWING No. REVISED	REE	NW	GS	ARTERIAL ROAD WOOD POLE WITH CROSSARM	ORIGINATED:	SCALE: NTS	S03	
F	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		CHECKED: REE			
E	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK		APPROVED:	GRANT STACY		
D	06.02.18	CONDUCTORS AND CONDUITS CLARIFIED	C.O	NMc	F.K				REV. H	SHT.
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



NOTES:-


1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. CAN BE USED FOR MINOR ROADS WHERE THE DISTANCE BETWEEN CARRIAGEWAY AND POLE EXCEEDS 2.3m.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
4. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

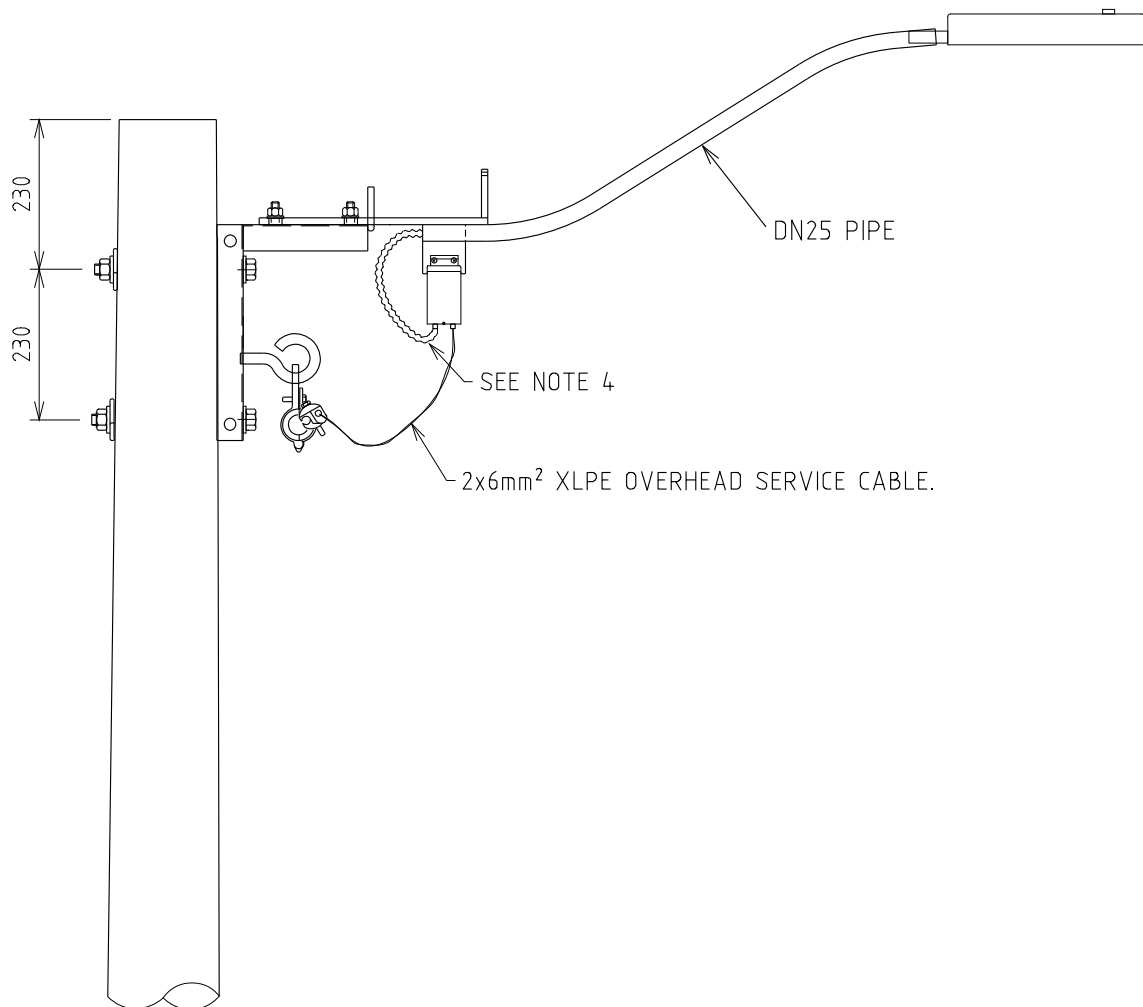
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H	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS	ARTERIAL ROAD CONCRETE POLE WITH CROSSARM	ORIGINATED:	SCALE: NTS	S05	
G	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		CHECKED: REE			
F	31.08.18	OUTREACH INSTALLATION METHOD RECTIFIED	CO	REE	GS		APPROVED:	GRANT STACY		
E	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK				REV. I	SHT.
REV	DATE	DESCRIPTION	ORGO.	CHKO.	APROD.					



NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. CAN BE USED FOR MINOR ROADS WHERE THE DISTANCE BETWEEN CARRIAGEWAY AND POLE EXCEEDS 2.3m.
3. BOLT AS CLOSE AS POSSIBLE TO THE MIDDLE OF THE POLE.
4. ADJUST BRACING STRAPS ATTACHMENT TO SUIT THE SPECIFIED POLE DIMENSIONS
5. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
6. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

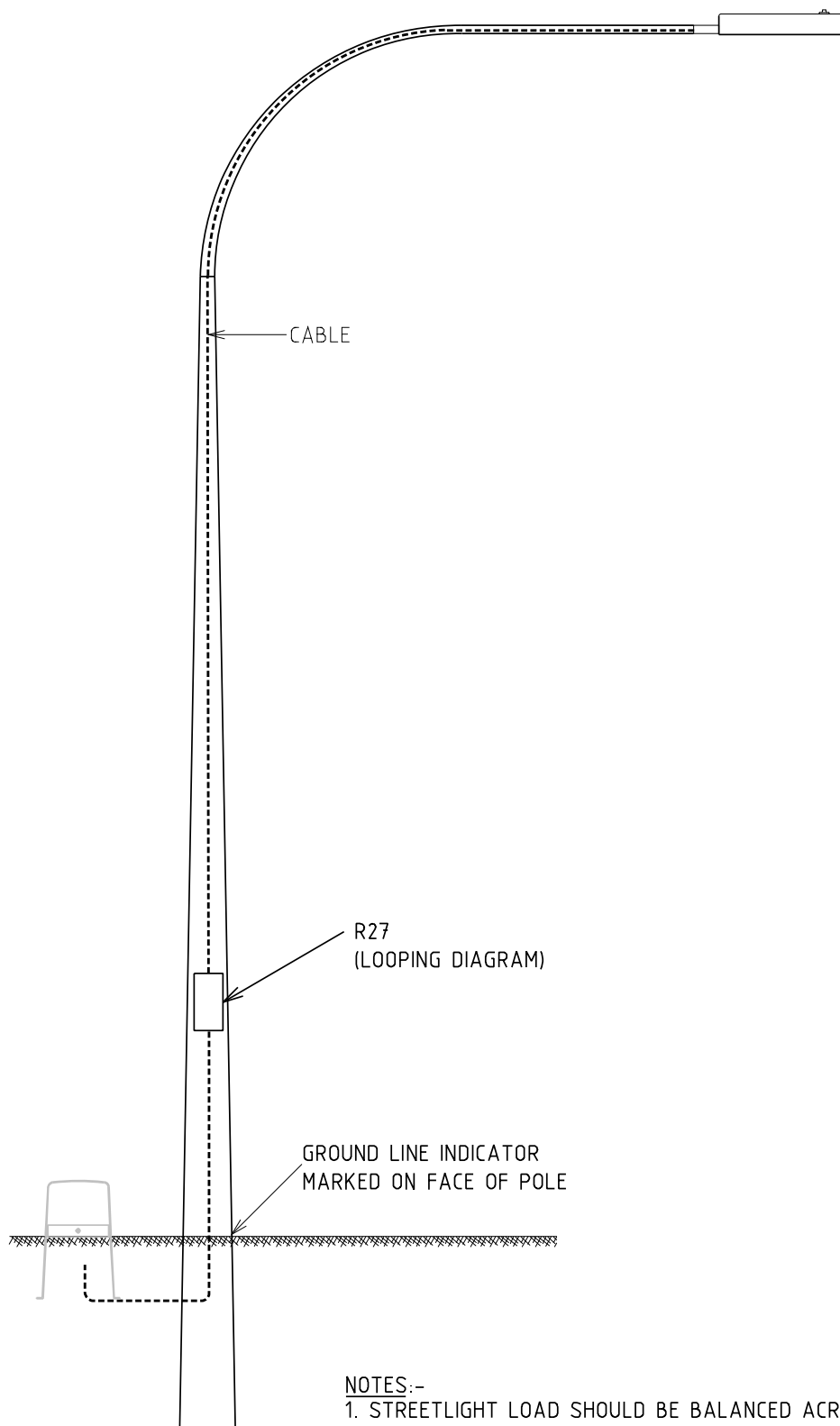
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K	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS	TITLE ARTERIAL ROAD FOR ABC	DRAWN: JRR		DATE: 25-03-2014		DRG. No.		
J	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS		ORIGINATED:		SCALE: NTS		S06		
H	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		CHECKED: REE						
G	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK		APPROVED:						
F	06.02.18	CONDUCTORS AND CONDUITS CLARIFIED	CO	NMc	GS						REV. K SH.		
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD	GRANT STACY							



NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. CAN BE USED FOR MINOR ROADS WHERE THE DISTANCE BETWEEN CARRIAGEWAY AND POLE EXCEEDS 2.3m.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
4. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

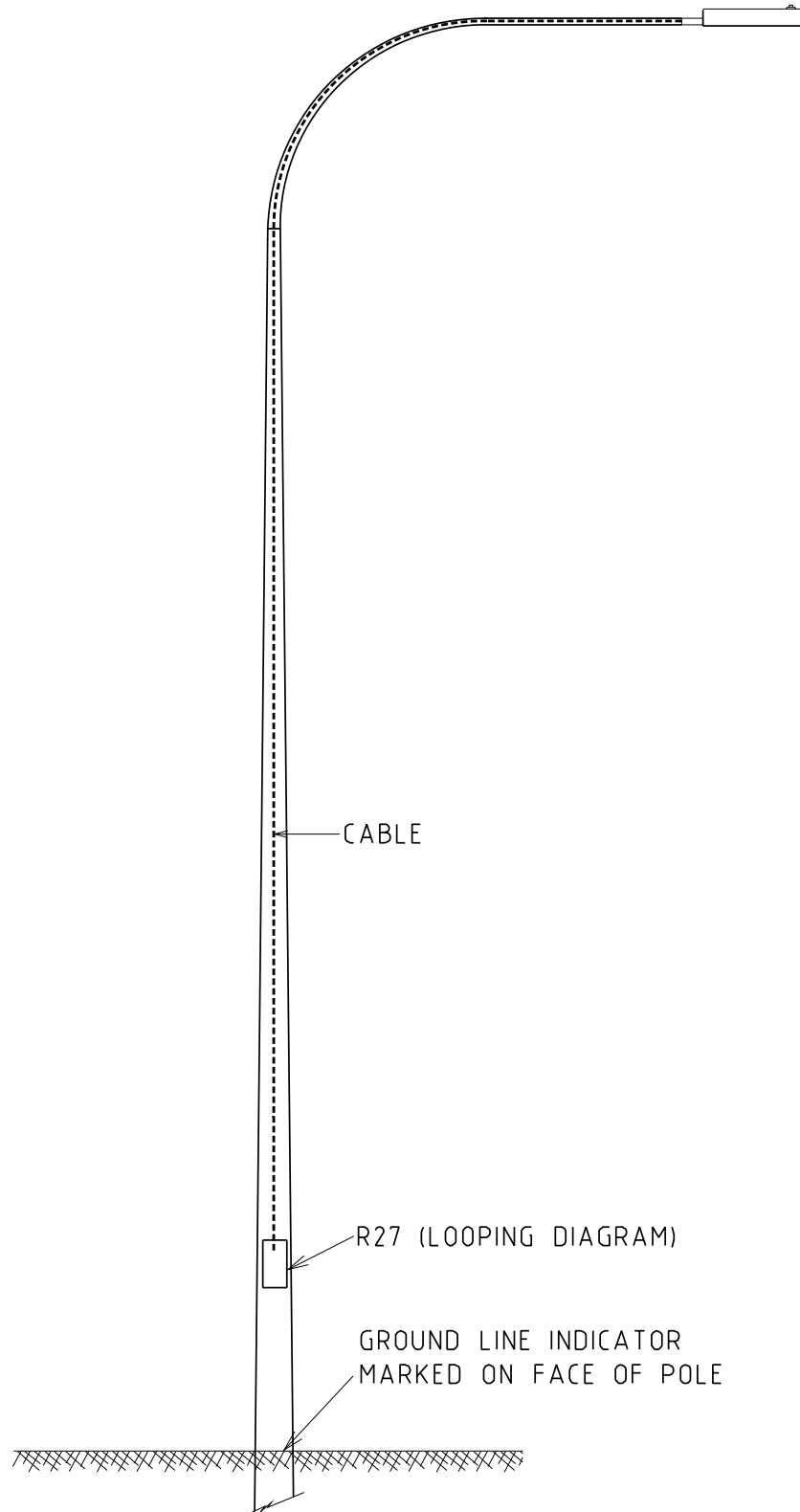
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J	21.07.21	LUMINAIRE SHAPE MODIFIED	REE	CO	GS	MINOR ROAD – FOR ABC			DRAWN: JRR		DATE: 25-03-2014		DRG. No.		
H	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS				ORIGINATED:		SCALE: NTS		S07		
G	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS				CHECKED: REE						
F	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS				APPROVED:						
RFV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				GRANT STACY		REV.		SHT.		



				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 25-03-2014	
							ORIGINATED:		SCALE: NTS	
							CHECKED: REE			
							APPROVED:		GRANT STACY	
REV	DATE	DESCRIPTION		ORGO	CHKD	APRO			REV	SHT.
D	10.09.19	NOTE AND DRAWING No. REVISED		REE	NN	FK			DRG. No.	
C	16.08.18	LED ADDED AND NOTES REVISED		REE	JC	FK				
B	14.07.16	NOTE ABOUT CABLE REVISED		REE	JC	GS				
A	01.11.03	ORIGINAL ISSUE								

SINGLE OUTREACH
STEEL STANDARD - 6.5m

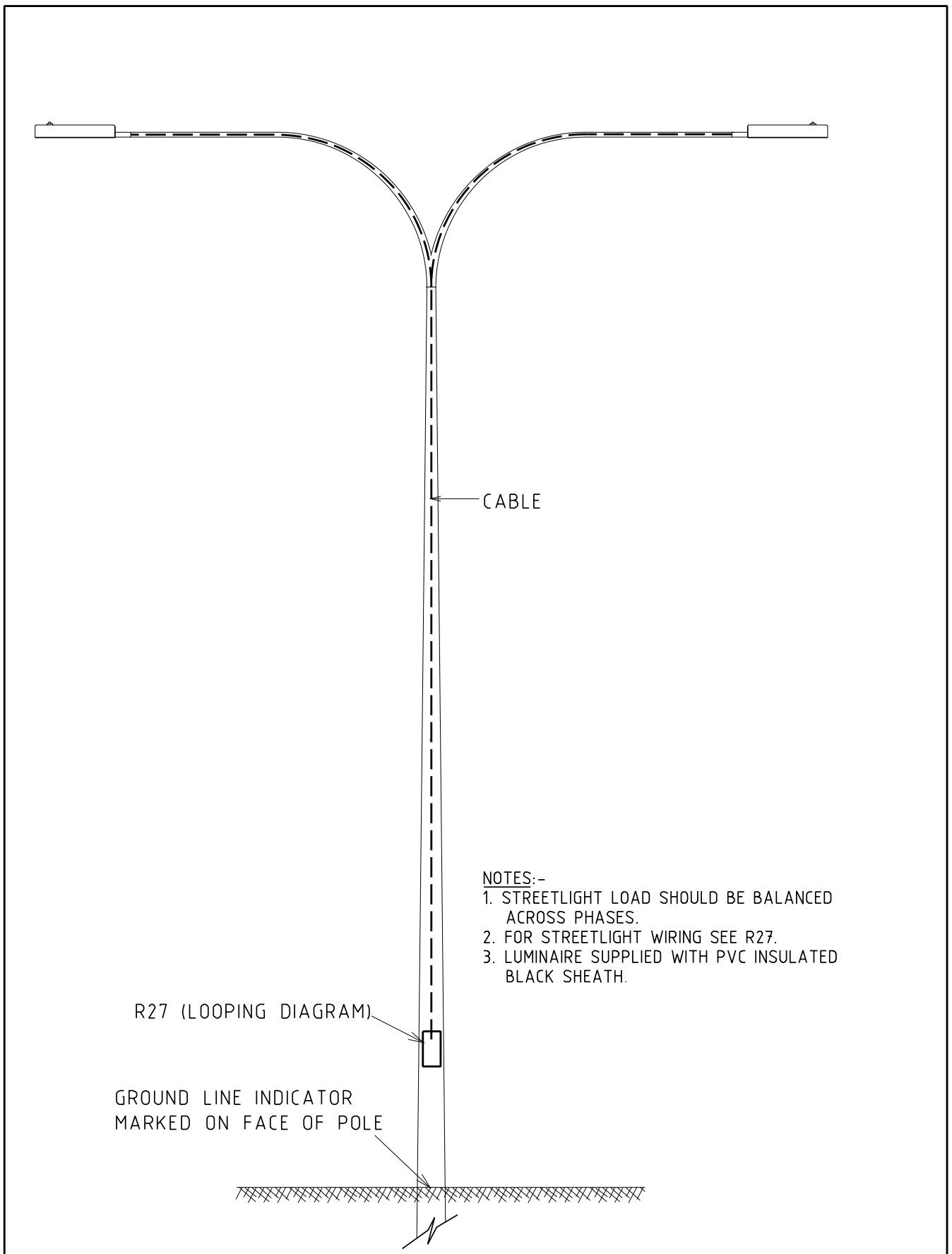
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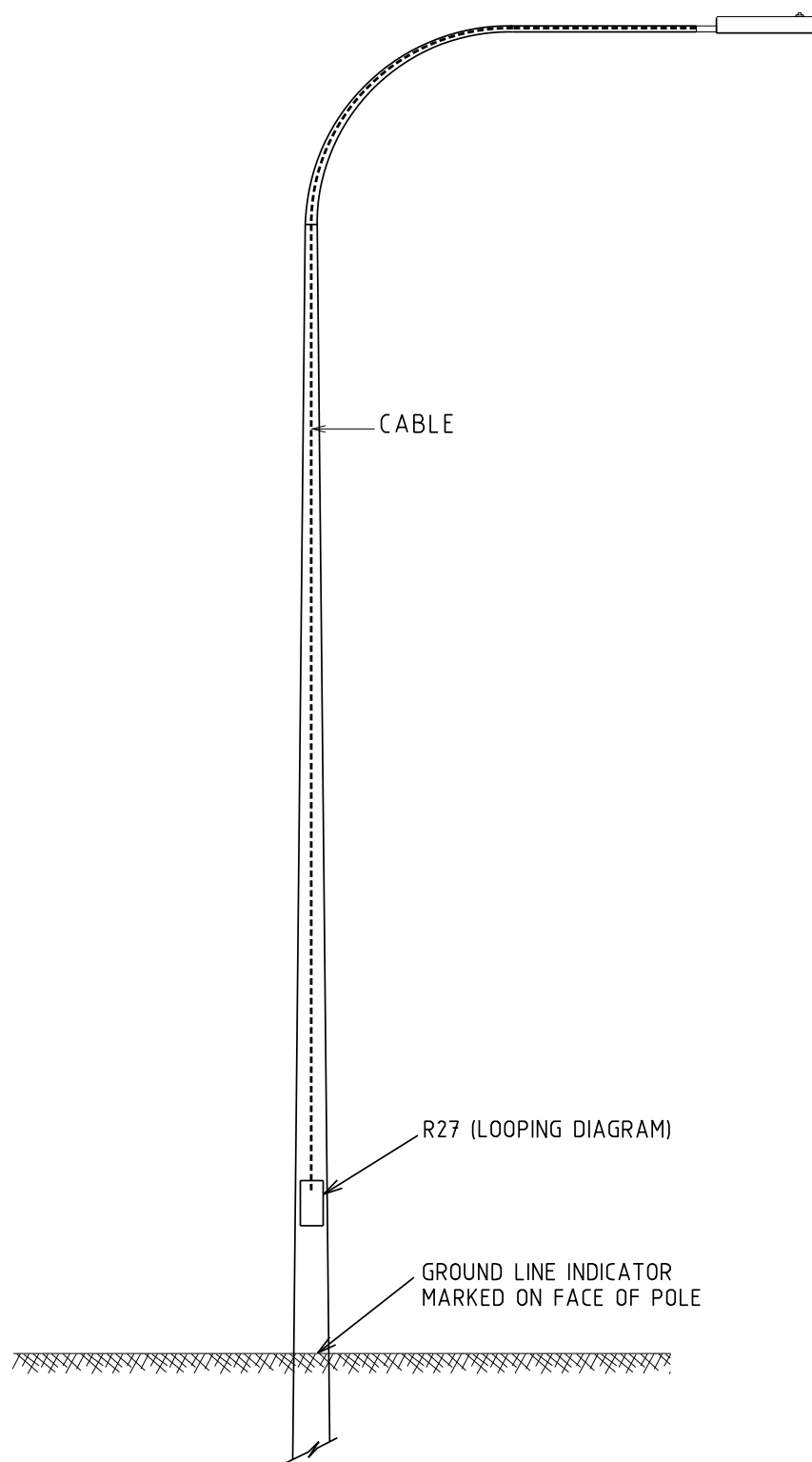
NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. FOR STREETLIGHT WIRING SEE R27.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

STREET LIGHTING				DISTRIBUTION CONSTR. STANDARD		westernpower	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD	TITLE	
D	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS	SINGLE OUTREACH STEEL STANDARD - 10.5m	
C	16.08.18	LED ADDED AND NOTES REVISED	REE	JC	FK		
B	14.07.16	CABLE NOTE REVISED	REE	JC	GS		
A	07.11.03	ORIGINAL ISSUE					
						DRAWN: JRR DATE: 25-03-2014	
						ORIGINATED: SCALE: NTS	
						CHECKED: REE	
						APPROVED: GRANT STACY	
						REV. D	SHT.



STREET LIGHTING				DISTRIBUTION CONSTR. STANDARD		westernpower	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD	TITLE	
D	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS	DOUBLE OUTREACH STEEL STANDARD - 10.5m	
C	16.08.18	LED ADDED AND NOTES REVISED	REE	JC	FK		
B	14.07.16	NOTE ABOUT CABLE REVISED	REE	JC	GS		
A	01.11.03	ORIGINAL ISSUE					
						DRAWN: JRR DATE: 25-03-2014 DRG. No.	
						ORIGINATED: SCALE: NTS	
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						REV: D	SHT.



NOTES:-

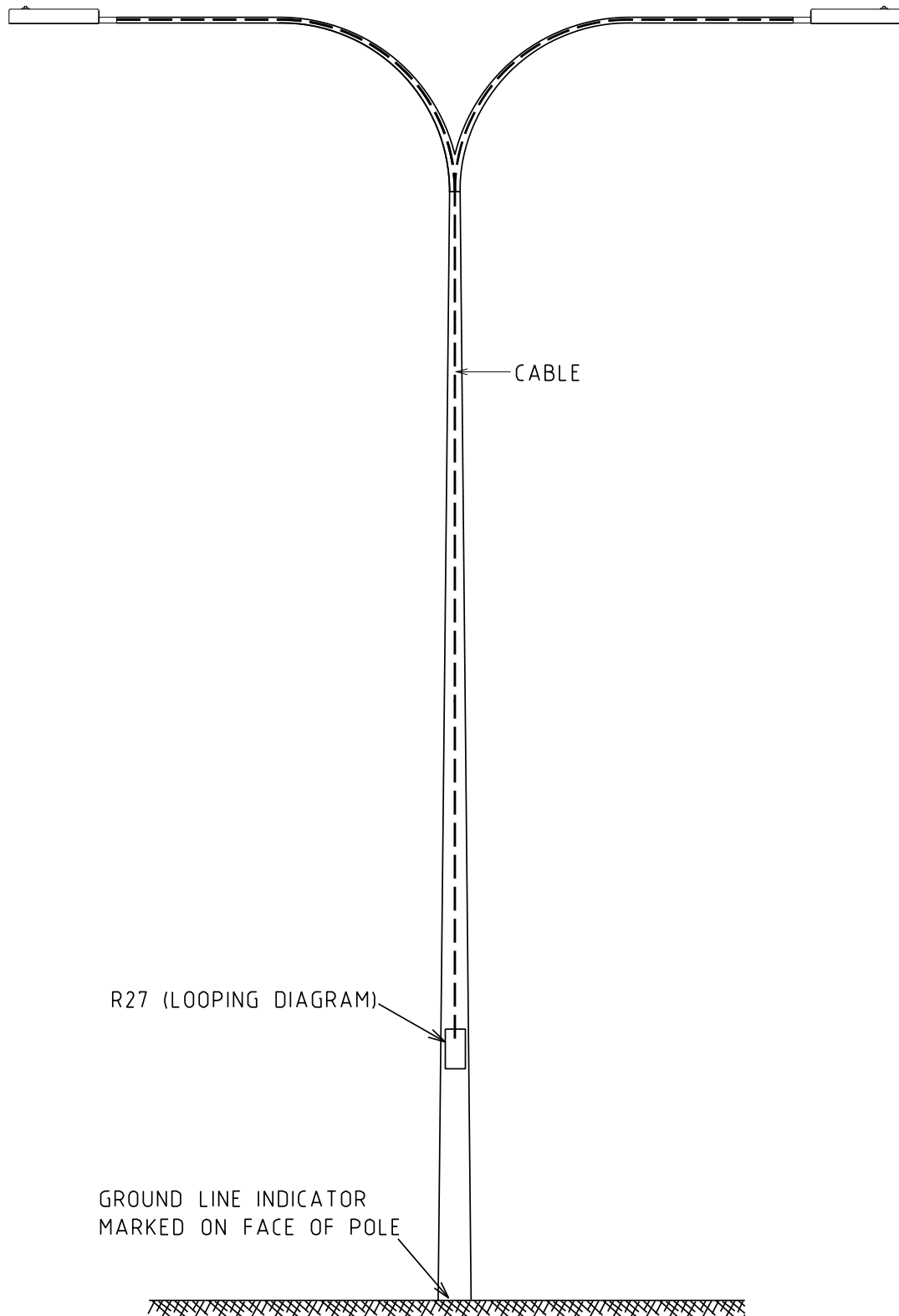
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. FOR STREETLIGHT WIRING SEE R27.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 26-03-2014	
							ORIGINATED:		SCALE: NTS	
							CHECKED: REE			
							APPROVED:		GRANT STACY	
									REV. D	
									SHT.	

REV	DATE	DESCRIPTION	ORGO	CHKD	APROD
D	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS
C	16.08.18	LED ADDED AND NOTES REVISED	REE	JC	FK
B	14.07.16	CABLE NOTE REVISED	REE	JC	GS
A	07.11.03	ORIGINAL ISSUE			

SINGLE OUTREACH
STEEL STANDARD - 12.5m

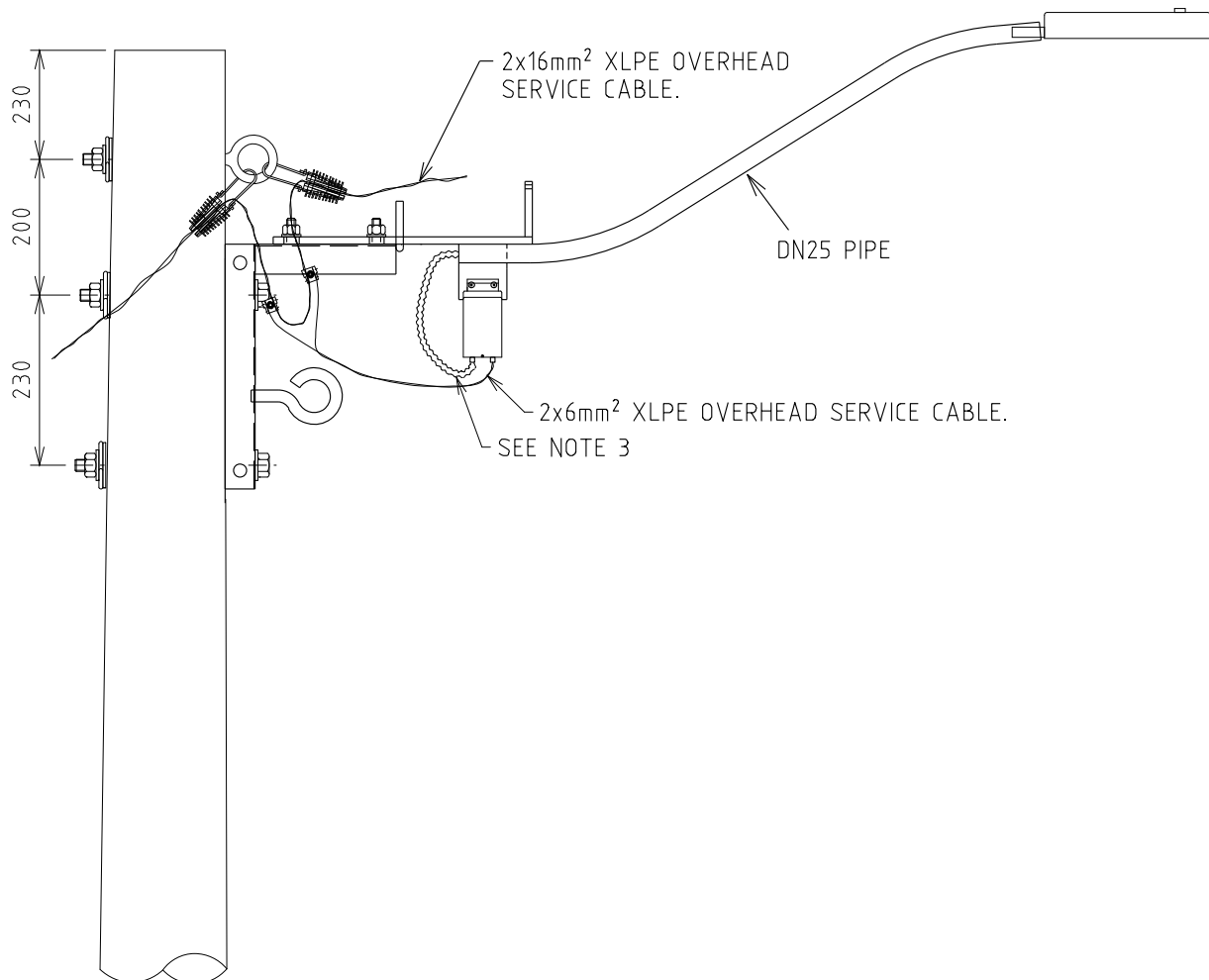
DRG. No.
S11



NOTES:-

1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. FOR STREETLIGHT WIRING SEE R27.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

STREET LIGHTING				DISTRIBUTION CONSTR. STANDARD		westernpower	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD	TITLE DOUBLE OUTREACH STEEL STANDARD - 12.5m	
D	10 09 19	NOTE AND DRAWING No. REVISED	REE	NN	GS		
C	16 08 18	LED ADDED AND NOTES REVISED	REE	JC	FK		
B	14 07 16	CABLE NOTE REVISED	REE	JC	GS		
A	07 11 03	ORIGINAL ISSUE					
						DRAWN: JRR ORIGINATED: CHECKED: REE APPROVED: GRANT STACY	DATE: 26-03-2014 SCALE: NTS DRG. No. S12 REV. D SHT.



NOTES:-

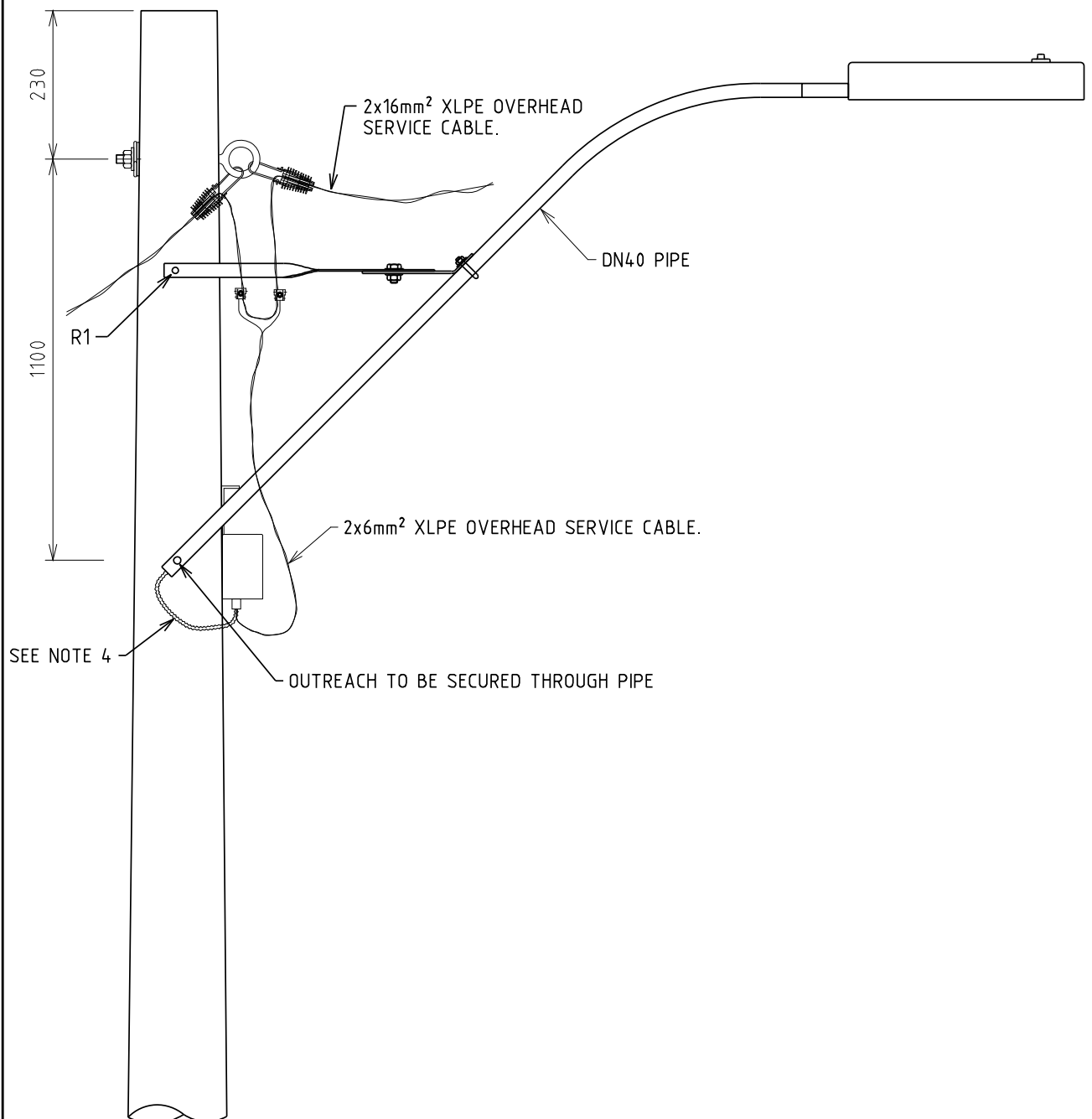
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
3. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.
4. IF HV ATTACHED, EYEBOLT LOCATION IS EQUIVALENT TO LV KING BOLT ON HV DCSH DRAWINGS.

				STREETLIGHTING			DISTRIBUTION CONSTR. STANDARD		westernpower	
H	21.07.21	LED LUMINAIRE SHAPE MODIFIED	REE	CO	GS	TITLE	DRAWN: JRR	DATE: 26-03-2014	DRG. No.	S19
G	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS	STREETLIGHT FEED - MINOR ROAD WOOD POLE WITHOUT CROSSARM	ORIGINATED:	SCALE: NTS		
F	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS		CHECKED: REE			
E	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		APPROVED:			
D	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK					
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					

GRANT STACY

REV. H

SHT.



NOTES:-

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STREETLIGHTING				DISTRIBUTION CONSTR. STANDARD		westernpower	
TITLE				DRAWN: JRR	DATE: 26-03-2014	DRG. No.	
STREETLIGHT FEED				ORIGINATED:	SCALE: NTS		
ARTERIAL ROAD				CHECKED: REE			S20
WOOD POLE WITHOUT CROSSARM				APPROVED:	GRANT STACY	REV. K	SHT.
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.		
K	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS		
J	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS		
H	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		
G	31.08.18	OUTREACH INSTALLATION METHOD RECTIFIED	CO	REE	GS		