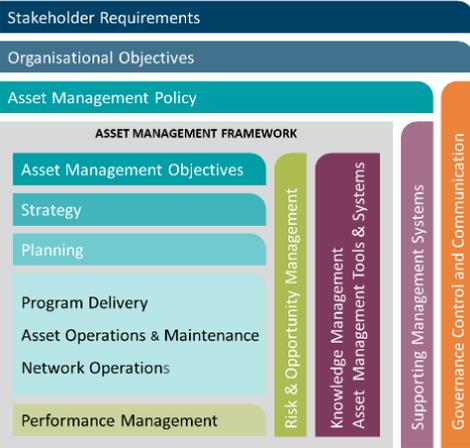


Western Power's Asset Management System

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

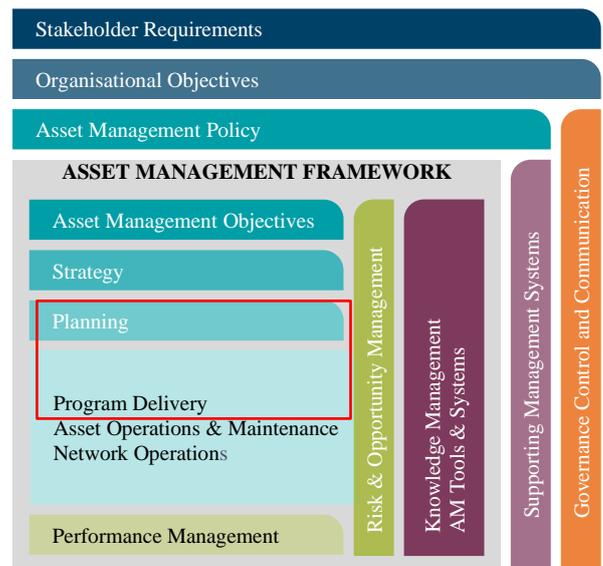
Business and Customer Service – Customer Service

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

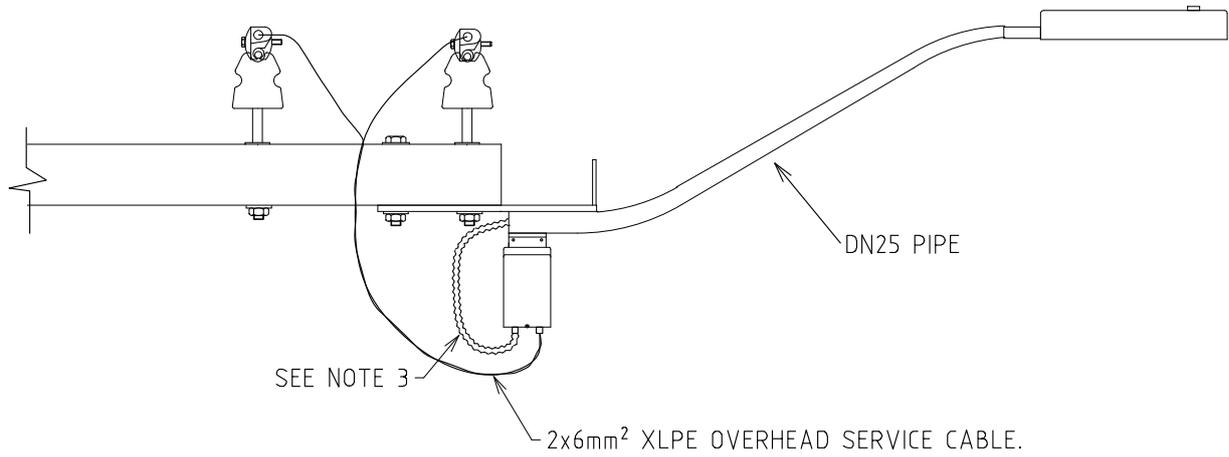
The streetlight column burial depth indicated on drawings S8 – S15 shall be applied as a guide and may vary between manufacturers. A ground line indicator is present on installed poles to be used for quality compliance inspection.

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Drawing Register

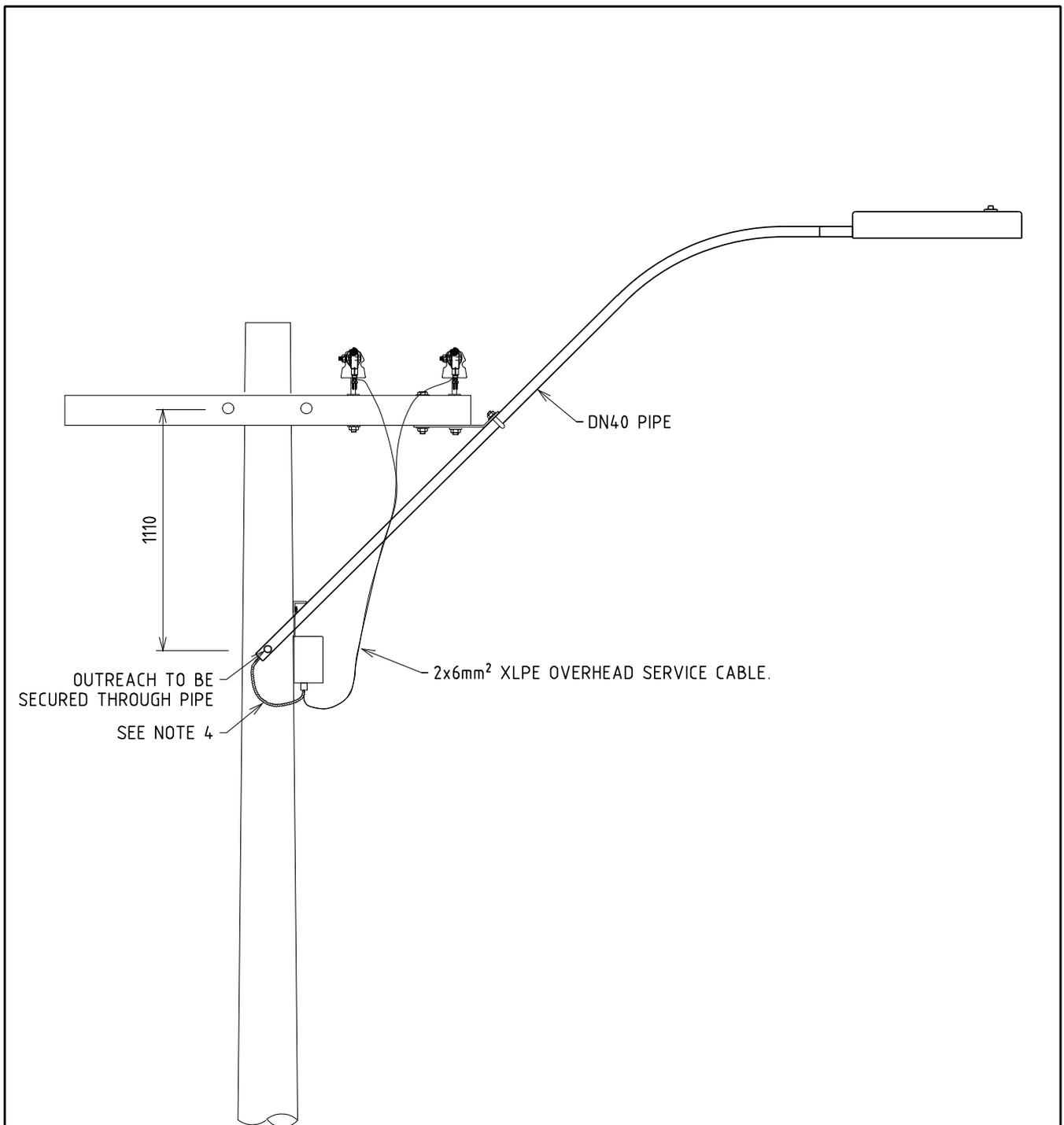
Number	Revision	Description
S02	J	Minor Road, Wood or Concrete Pole with Crossarm
S03	H	Arterial Road, Wood Pole with Crossarm
S05	I	Arterial Road, Concrete Pole with Crossarm
S06	K	Arterial Road, For ABC
S07	J	Minor Road, For ABC
S08	D	Single Outreach Steel Standard – 6.5m
S09	D	Single Outreach Steel 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.

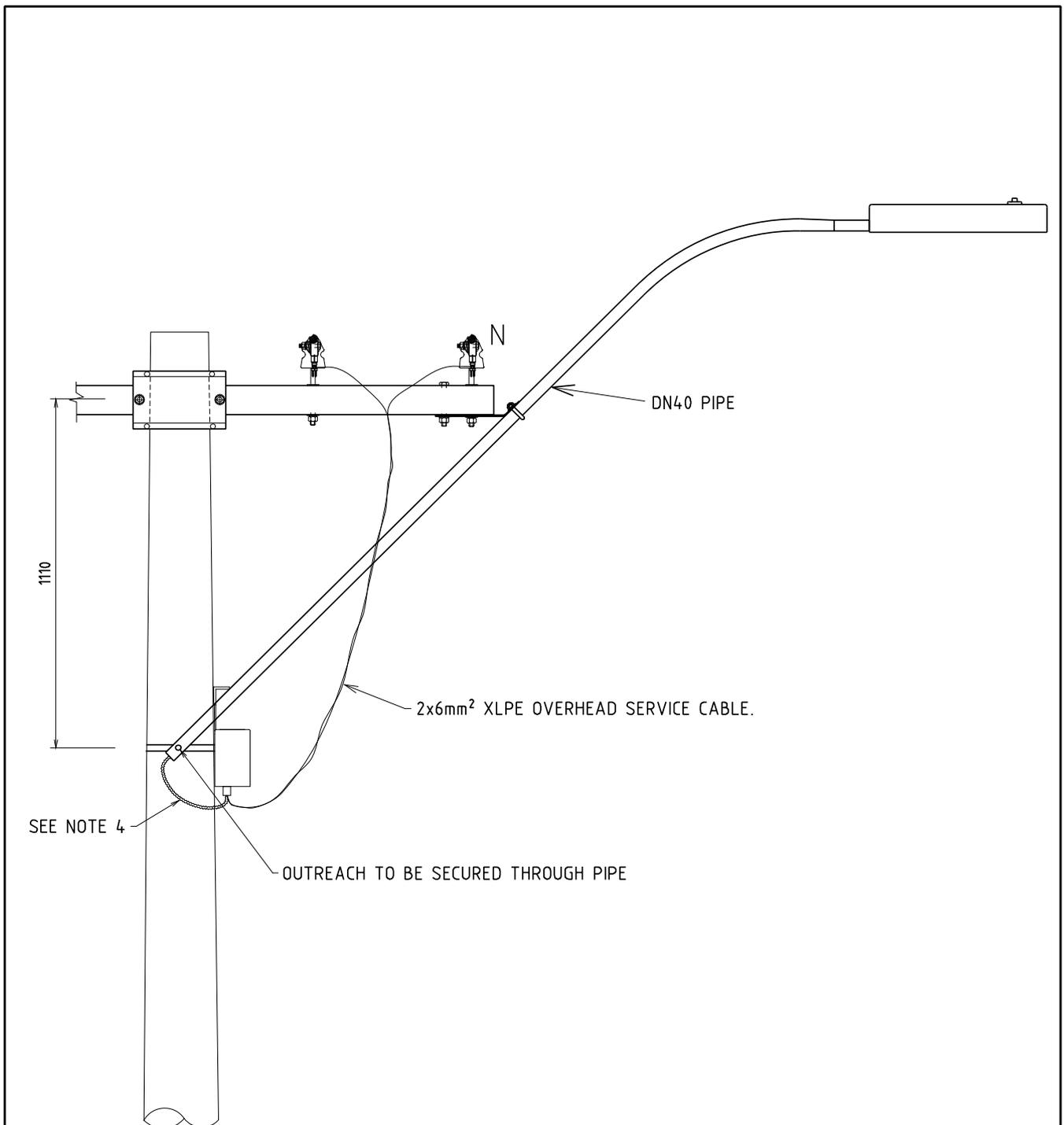
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J	21.07.21	LED LUMINAIRE SHAPE MODIFIED	REE	CO	GS	STREETLIGHTING MINOR ROAD WOOD OR CONCRETE POLE WITH CROSSARM	DRAWN: JRR	DATE: 25-03-2014	DRG. No.	
H	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NV	GS		ORIGINATED:	SCALE: NTS	S02	
G	10.09.19	NOTES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

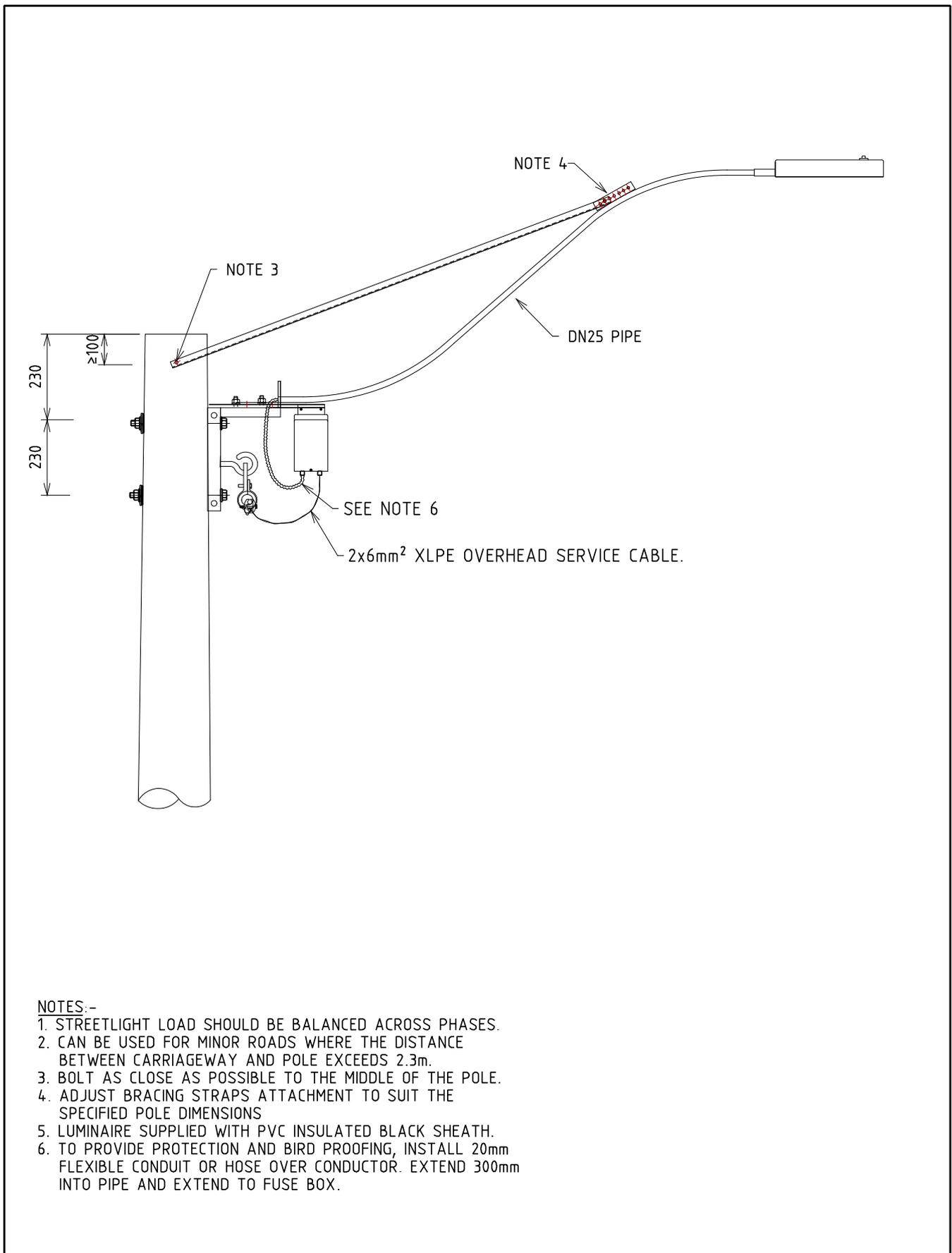
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.	TITLE	DISTRIBUTION CONSTR. STANDARD	westernpower	DRG. No.
H	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NW	GS	STREETLIGHTING ARTERIAL ROAD WOOD POLE WITH CROSSARM	DRAWN: JRR ORIGINATED: CHECKED: REE APPROVED: GRANT STACY	DATE: 25-03-2014 SCALE: NTS	S03
G	10.09.19	NOTE AND DRAWING No. REVISED	REE	NW	GS				
F	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS				
E	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK				
D	06.02.18	CONDUCTORS AND CONDUITS CLARIFIED	C.O	NMc	F.K				



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.
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4. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND 300mm INTO PIPE AND EXTEND TO FUSE BOX.

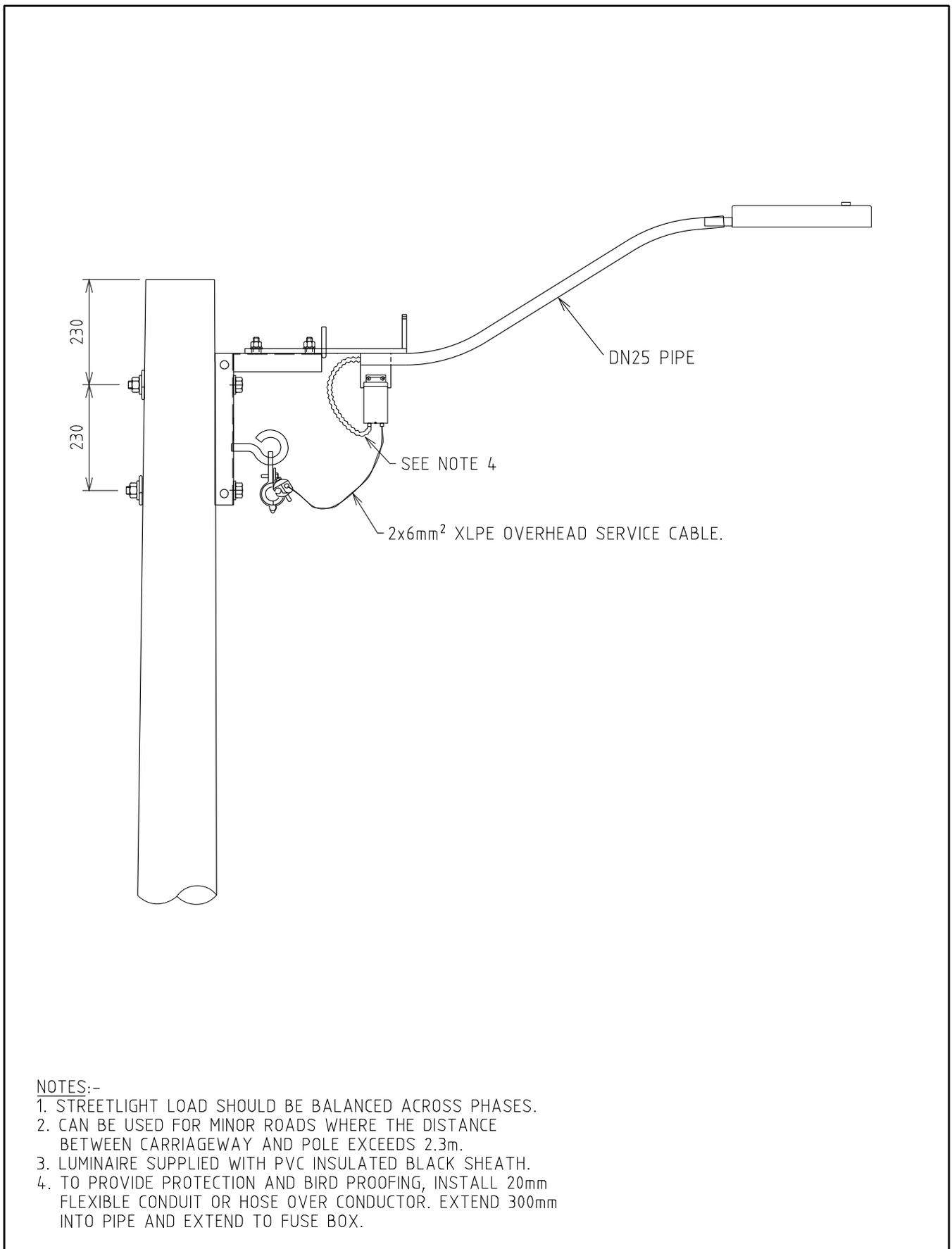
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I	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS	STREET LIGHTING ARTERIAL ROAD CONCRETE POLE WITH CROSSARM	DRAWN: JRR	DATE: 25-03-2014
H	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS		ORIGINATED:	SCALE: NTS
G	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		CHECKED: REE	DRG. No. S05
F	31.08.18	OUTREACH INSTALLATION METHOD RECTIFIED	CO	REE	GS		APPROVED: GRANT STACY	REV. I
E	16.08.18	REVISED TO SUIT LED LUMINAIRES	REE	JC	FK			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. 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.

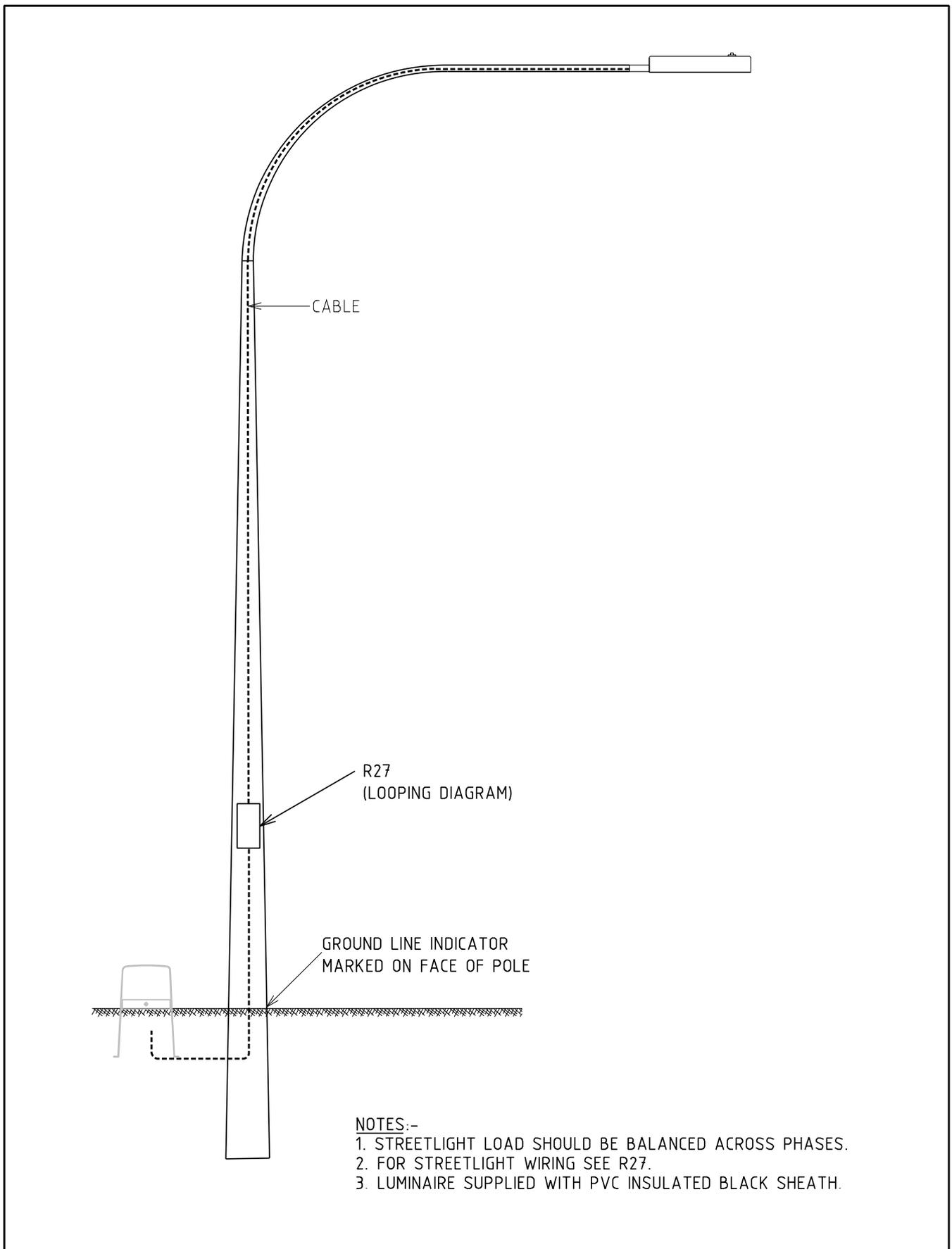
				STREETLIGHTING		DISTRIBUTION CONSTR. STANDARD		westernpower	
K	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS	TITLE ARTERIAL ROAD FOR ABC		DRAWN: JRR DATE: 25-03-2014 DRG. No.	
J	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS			ORIGINATED: SCALE: NTS	
H	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO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



NOTES:-

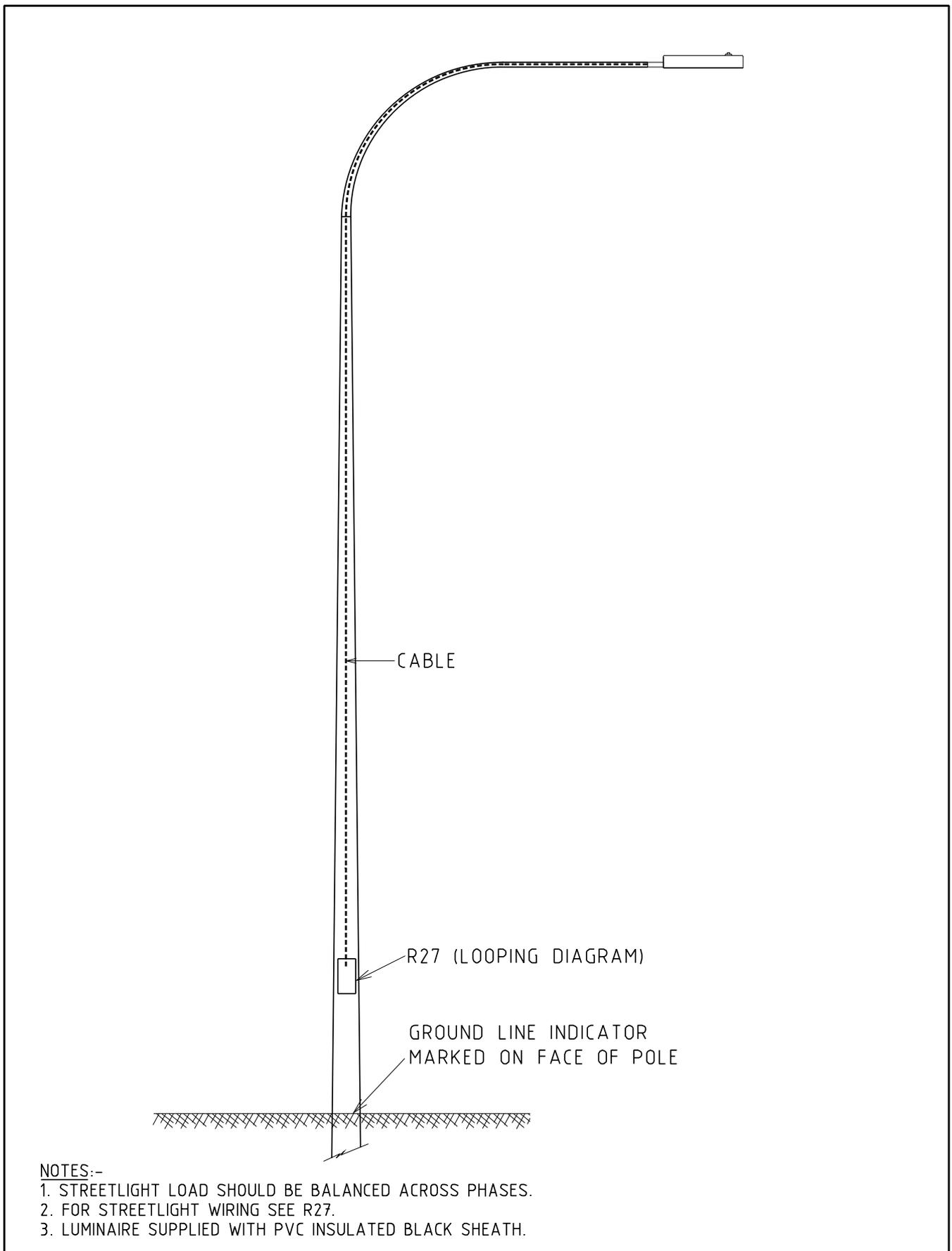
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. CAN BE USED FOR MINOR ROADS WHERE THE DISTANCE BETWEEN CARRIAGEWAY AND POLE EXCEEDS 2.3m.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.
4. TO PROVIDE PROTECTION AND BIRD PROOFING, INSTALL 20mm FLEXIBLE CONDUIT OR HOSE OVER CONDUCTOR. EXTEND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

				STREETLIGHTING			DISTRIBUTION CONSTR. STANDARD			
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	NV	GS		ORIGINATED: REE		S07	
G	10.09.19	NOTE AND DRAWING No. REVISED	REE	NV	GS		CHECKED: REE			
F	11.07.19	SERVICE CABLE ANNOTATION ADDED	CO	REE	GS		APPROVED: GRANT STACY		REV. J	SHT.
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



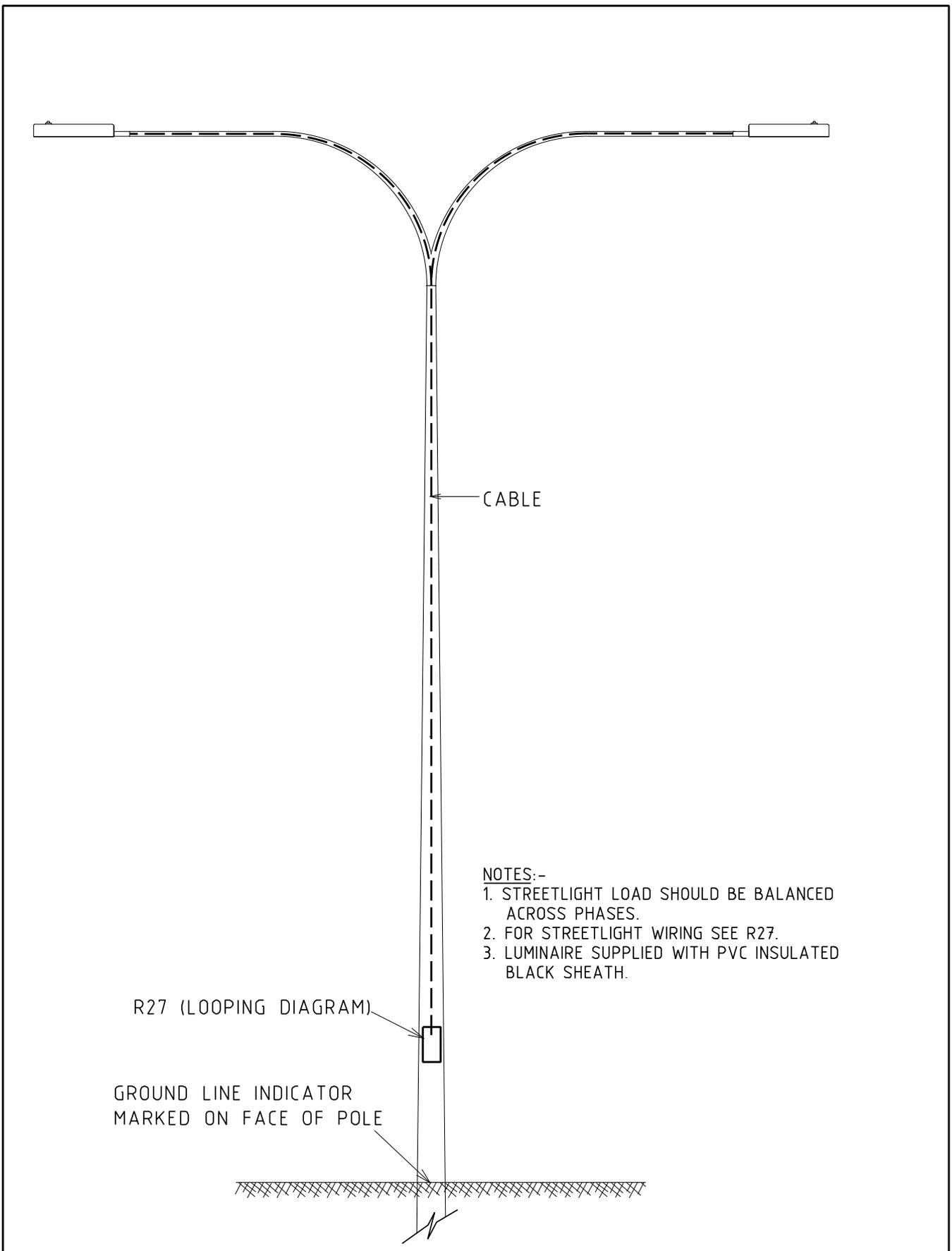
- NOTES:-
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
 2. FOR STREETLIGHT WIRING SEE R27.
 3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 25-03-2014		DRG. No.	
				SINGLE OUTREACH STEEL STANDARD - 6.5m			ORIGINATED: REE		SCALE: NTS		S08	
							CHECKED: REE		APPROVED: GRANT STACY			
							SHT.					
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
D	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	FK							
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										

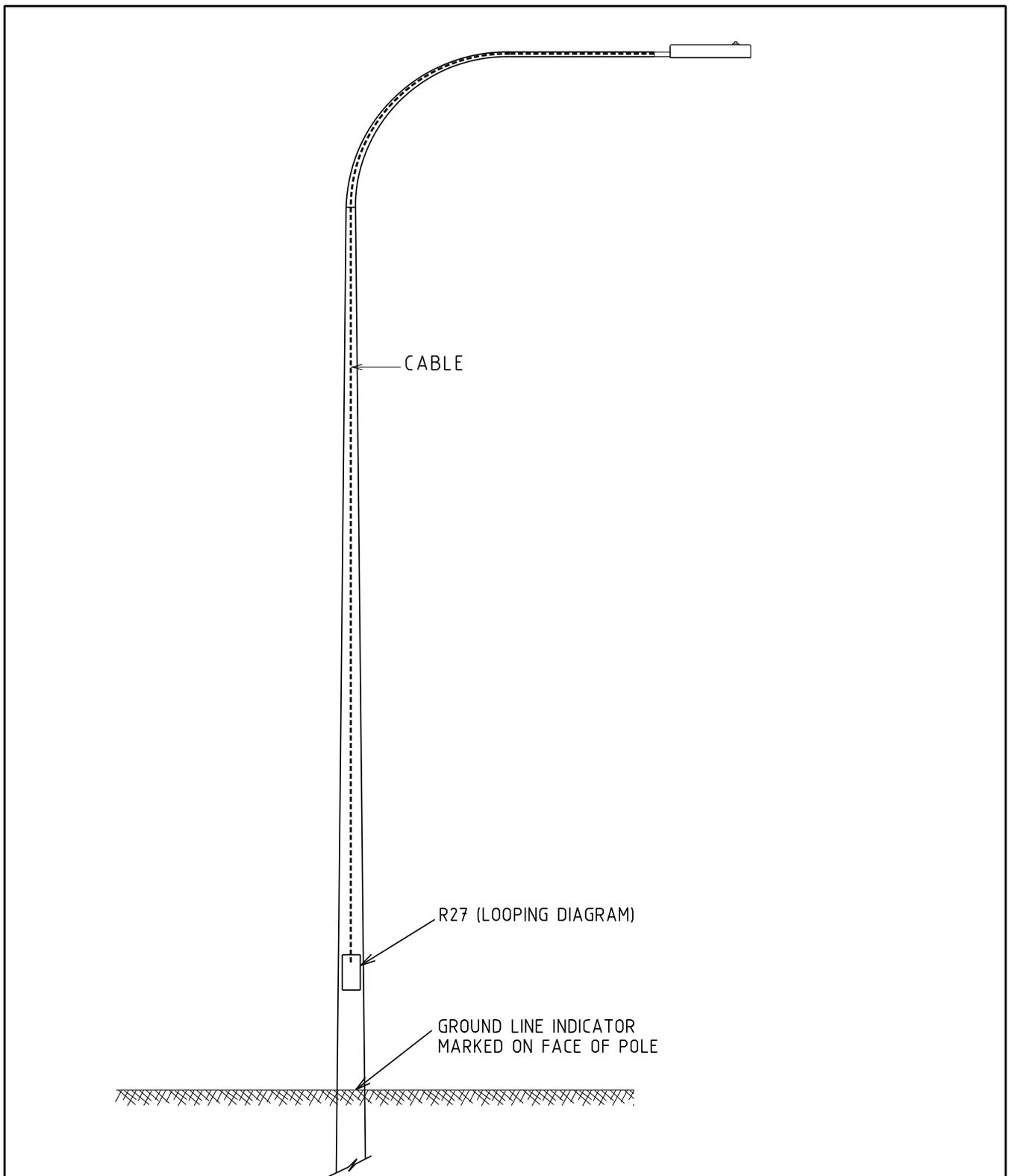


- NOTES:-
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
 2. FOR STREETLIGHT WIRING SEE R27.
 3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 25-03-2014		DRG. No.	
				SINGLE OUTREACH STEEL STANDARD - 10.5m			ORIGINATED: REE SCALE: NTS		S09	
							CHECKED: REE		REV. D	
							APPROVED: GRANT STACY		SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
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								



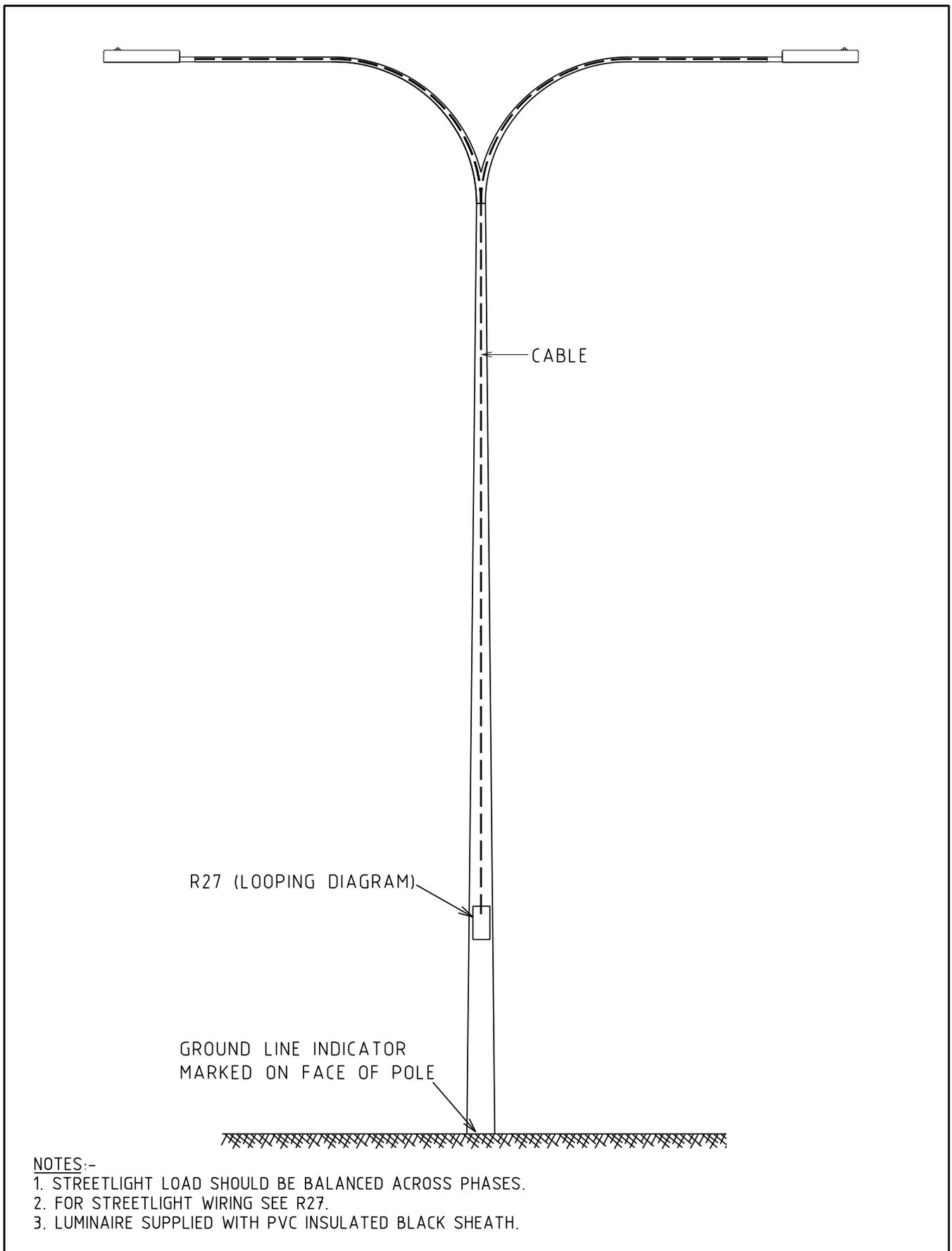
				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 25-03-2014		DRG. No.	
				DOUBLE OUTREACH STEEL STANDARD - 10.5m			ORIGINATED:		SCALE: NTS		S10	
							CHECKED: REE		APPROVED: GRANT STACY		REV. D	
							SHT.		D			
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
D	10.09.19	NOTE AND DRAWING No. REVISED	REE	NN	GS							
C	16.08.18	LED ADDED AND NOTES REVISED	REE	JC	FK							
B	14.07.16	NOTE ABOUT CABLE REVISED	REE	JC	GS							
A	01.11.03	ORIGINAL ISSUE										



NOTES:-

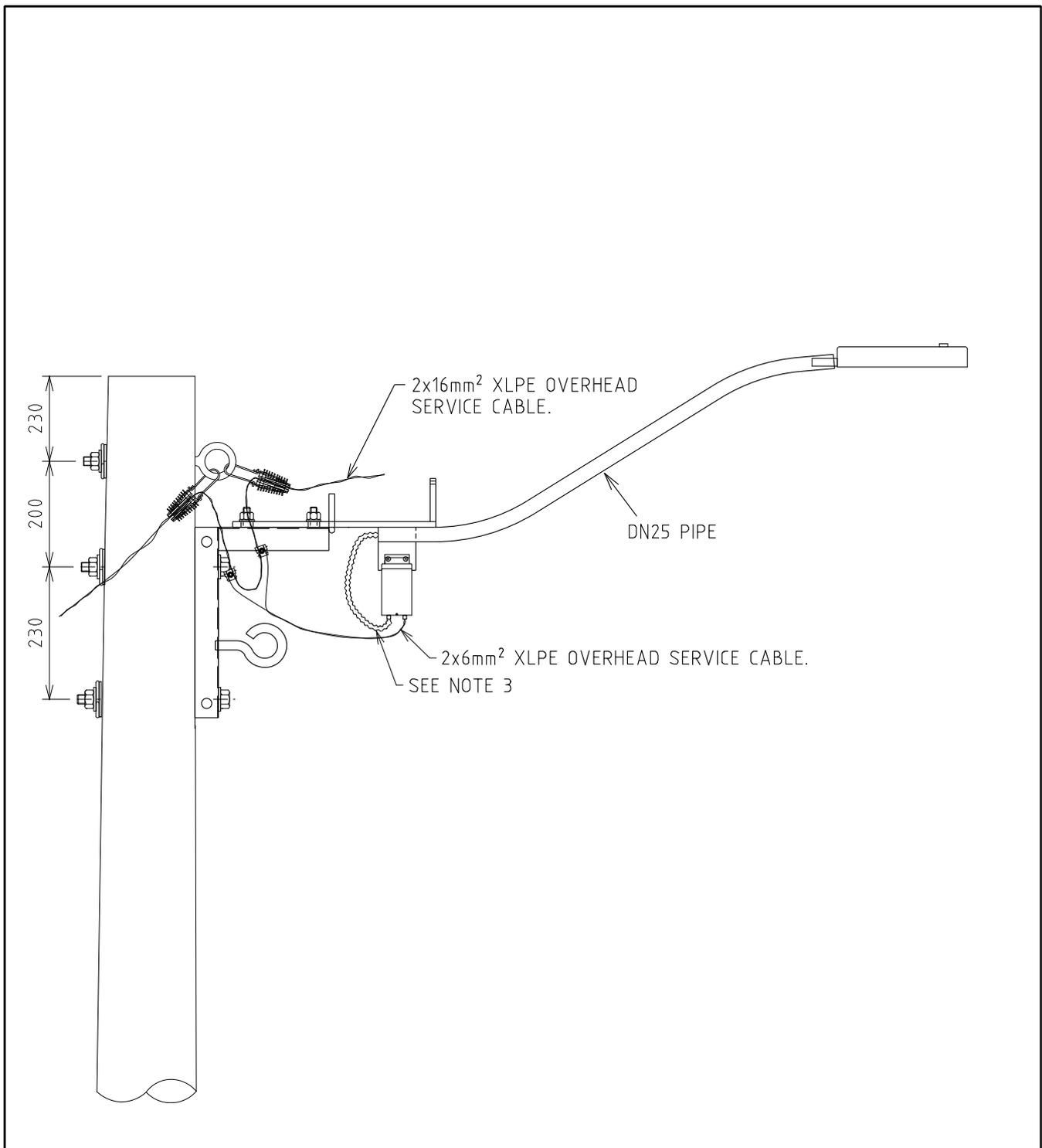
1. STREETLIGHT LOAD SHOULD BE BALANCED ACROSS PHASES.
2. FOR STREETLIGHT WIRING SEE R27.
3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

				STREET LIGHTING		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR DATE: 26-03-2014		DRG. No.	
				SINGLE OUTREACH STEEL STANDARD - 12.5m		ORIGINATED: SCALE: NTS		S11	
						CHECKED: REE		REV. D SHT.	
						APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
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							



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 3. LUMINAIRE SUPPLIED WITH PVC INSULATED BLACK SHEATH.

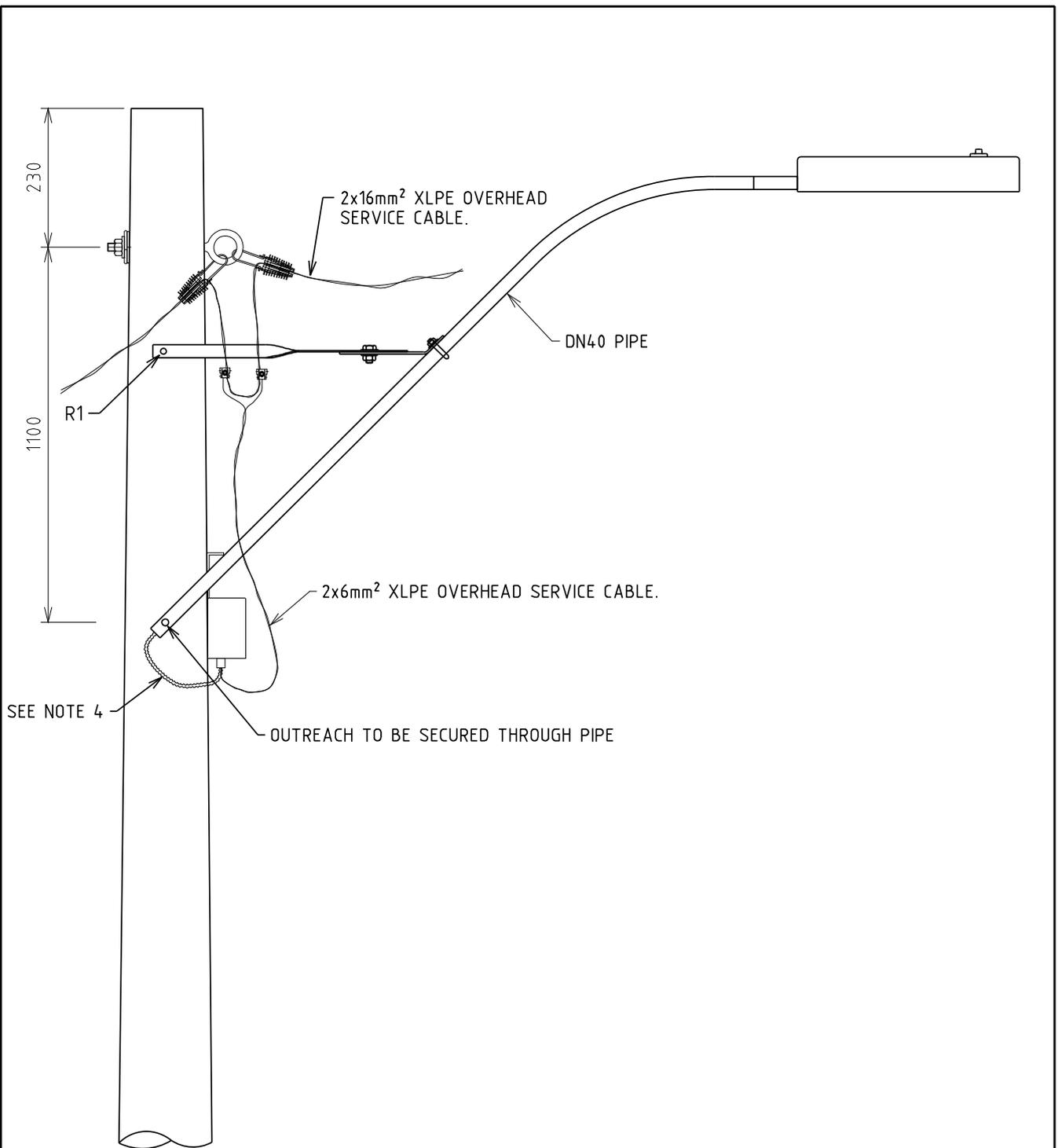
				STREET LIGHTING			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 26-03-2014		DRG. No.	
				DOUBLE OUTREACH STEEL STANDARD - 12.5m			ORIGINATED: SCALE: NTS		S12	
							CHECKED: REE		REV. D SHT.	
							APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGD.	CHKD	APRD					
D	10.09.19	NOTE AND 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								



NOTES:-

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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.

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



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REV	DATE	DESCRIPTION	ORGD.	CHKD.	APROD.	TITLE	DISTRIBUTION CONSTR. STANDARD	westernpower	DRG. No.
K	11.01.21	FLEXIBLE CONDUIT DETAILS REVISED	REE	NN	GS	STREETLIGHTING STREETLIGHT FEED ARTERIAL ROAD WOOD POLE WITHOUT CROSSARM	DRAWN: JRR ORIGINATED: REE CHECKED: REE APPROVED: GRANT STACY	westernpower	S20
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				