





LIGHTING  
CONSTRUCTION MANUAL

## COLUMNS MINOR ROAD

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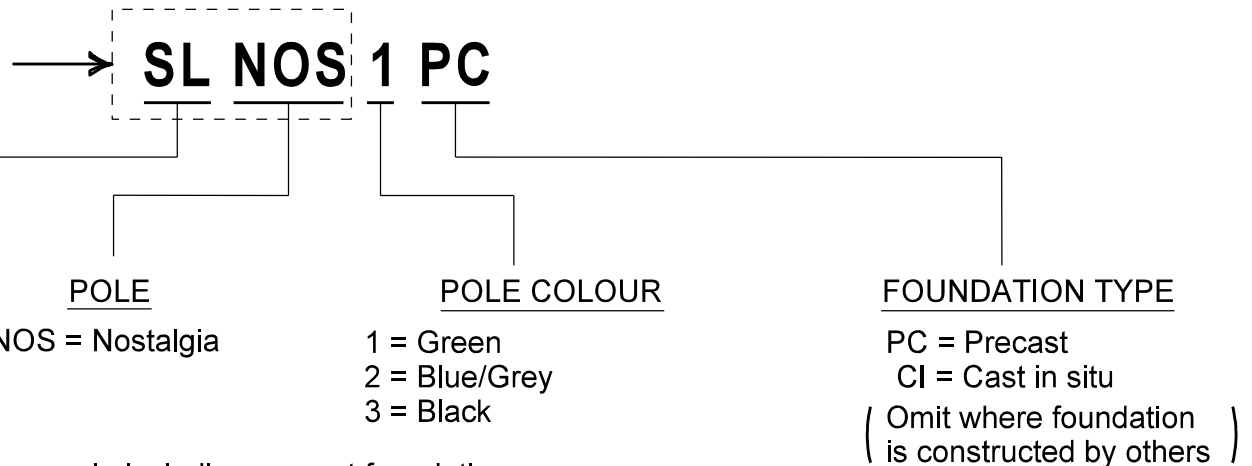
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D	23.03.16	REFERENCE DRAWING ERGON			A. Bletchly	01/03/19							
E	06.03.17				Approved Energex	Date						A. Bletchly	01/03/19
F	03.04.18	This document must not be reproduced in part or whole without written permission from ENERGEX or Ergon Energy			Checked	Date	K. Slater	01/03/19	EE DRWG NO: 1-6-1-1	VOLUME	FOLDER	PAGE	ISSUE
G	01.02.19				Drawn	Date	L. Burton / T. Borg	01/11/10		EGX DRWG NO: 10500-A4-1-6-1-1	1	6	1-1
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## ESTATE STREETLIGHT POLE / FOUNDATION CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

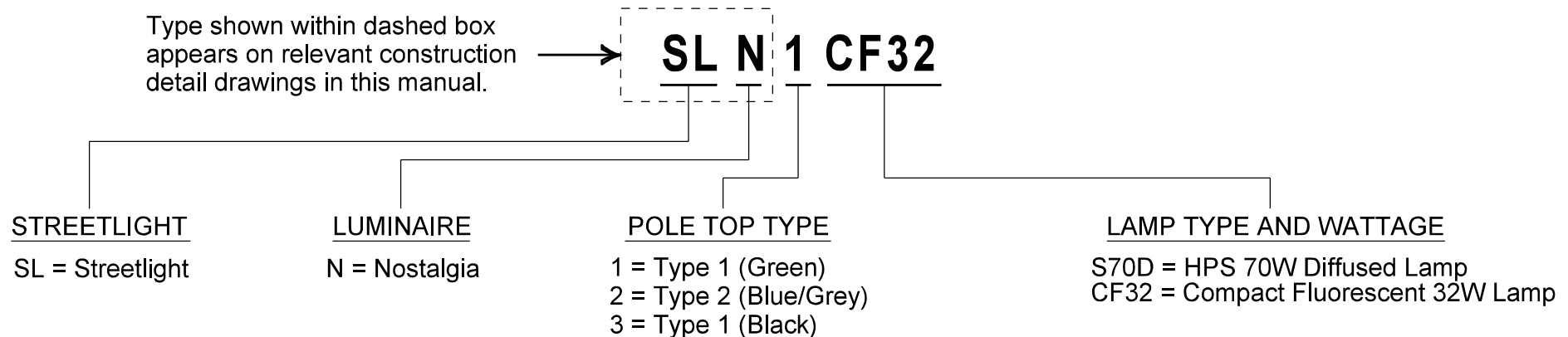


**EXAMPLE:-** SLNOS1PC = Streetlight, nostalgia green pole including precast foundation.



**EXAMPLE:-** SLNOS2 = Streetlight, nostalgia blue/grey pole, no foundation.

## ESTATE STREETLIGHT LUMINAIRE CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.



**EXAMPLE:-** SLN1CF32 = Streetlight, nostalgia luminaire type 1, compact fluorescent 32 watt lamp.

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## STREETLIGHT POLE / FOUNDATION CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

**SL BPM75/1/15 PC**

### STREETLIGHT

SL = Streetlight

### POLE TYPE

BPM = Base Plate Mounted  
(Steel)

### MOUNTING HEIGHT

75 = 7.5m

### No. OF OUTREACH

1 = Single  
2 = Double

### OUTREACH DIMENSION

15 = 1.5m



### FOUNDATION TYPE

PC = Precast  
CI = Cast in situ

( Omit where foundation  
is constructed by others )

EXAMPLE:- SLBPM75/1/15PC = Streetlight, base plate mounted pole, 7.5m mounting height, single 1.5m outreach including precast foundation.

EXAMPLE:- SLBPM75/2/15 = Streetlight, base plate mounted pole, 7.5m mounting height, double 1.5m outreach, no foundation.

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B	14.01.13	REFERENCE DRAWING ERGON			Approved Energex F. Zaini	Date 19/04/17						
C	23.10.14	5 85 8040 2			Checked P. Relf / A. Bletchly	Date 01/04/17						
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E	22.11.16					EGX DRWG NO: 10500-A4-1-6-2-2						

## STREETLIGHT LUMINAIRE MINOR ROAD CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

→ **SL HPS 0001**

### STREETLIGHT

SL = Streetlight

### LAMP TYPE AND WATTAGE

HPS = High Pressure Sodium Vapour

LF = Linear Fluorescent

CFL = Compact Fluorescent

MH = Metal Halide

### PRODUCT CODE

0001 = Sylvania Suburban 70W HPS

0002 = Sylvania Urban Aeroscreen 70W HPS

0003 = Sylvania Suburban 32W CFL

0004 = Sylvania Urban Aeroscreen 32W CFL

0007 = Sylvania Suburban 70W MH



0008 = Sylvania Urban Aeroscreen 70W MH

0032 = Greenstreet T5 2 x 24W

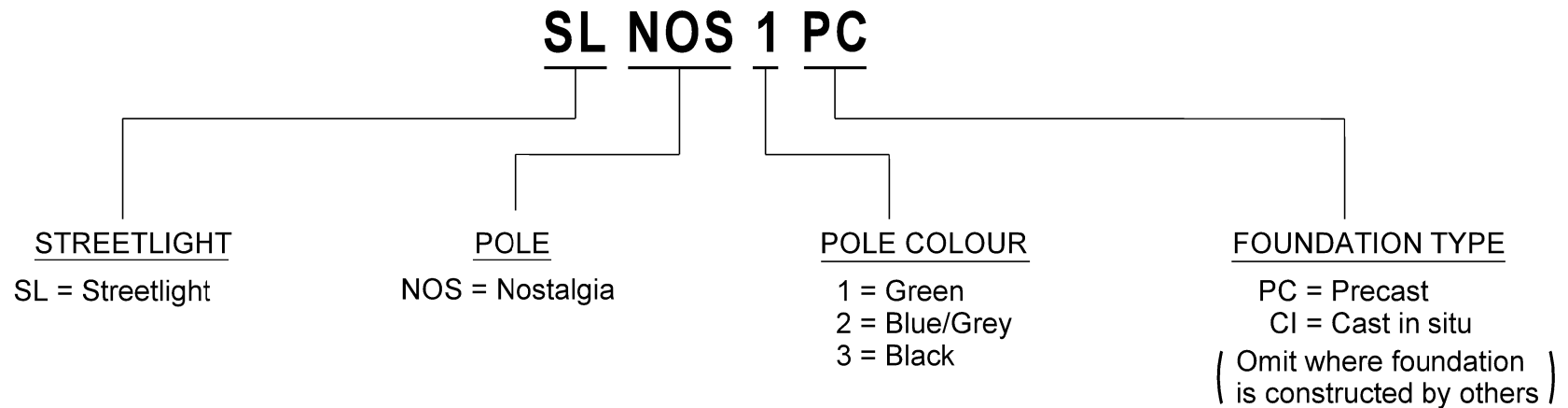
0033 = Greenstreet T5 2 x 14W

EXAMPLE:- SL HPS 0001 = Streetlight, High pressure sodium vapour, 70W

EXAMPLE:- SL MH 0007 = Streetlight, metal halide, 70W

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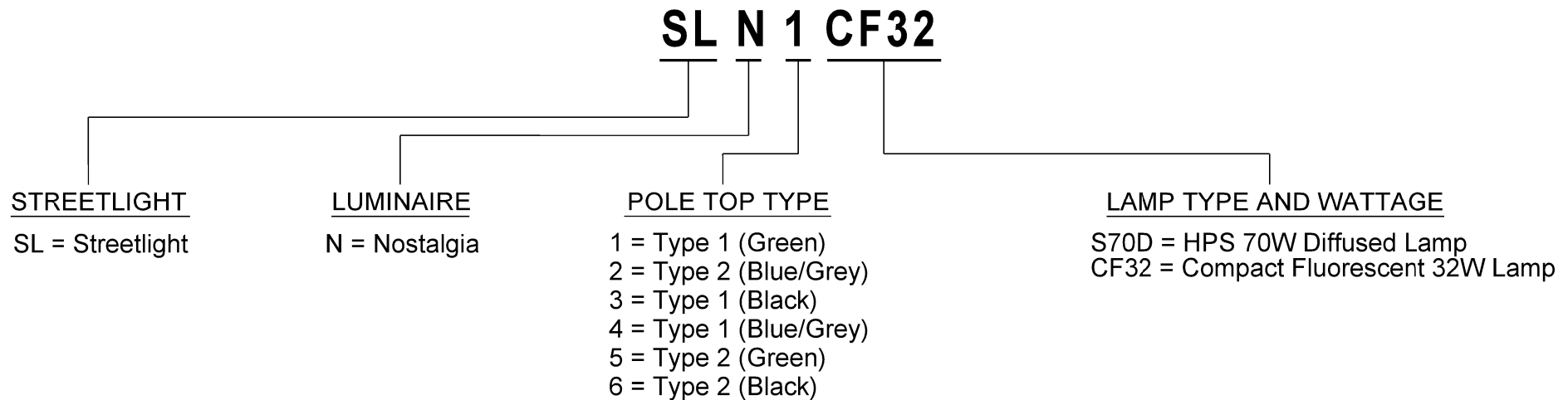
## ESTATE STREETLIGHT POLE / FOUNDATION CONSTRUCTION TYPE





EXAMPLE:- SLNOS1PC = Streetlight, nostalgia pole type 1, including precast foundation.

EXAMPLE:- SLNOS2 = Streetlight, nostalgia pole type 2, no foundation.

## ESTATE STREETLIGHT LUMINAIRE CONSTRUCTION TYPE

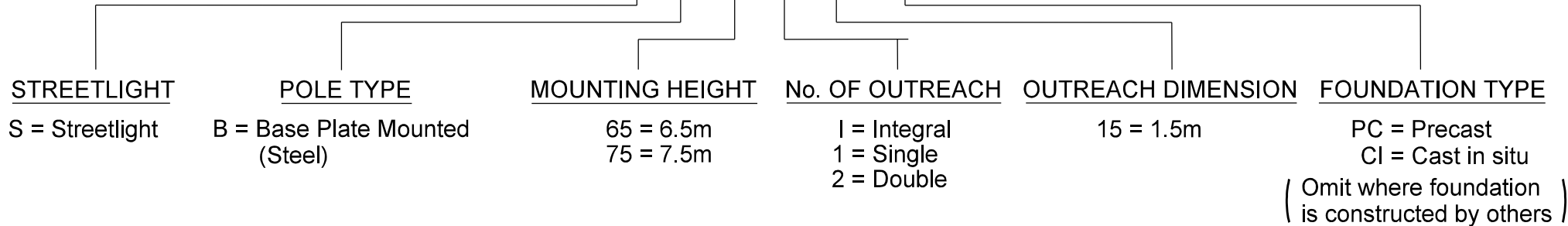


EXAMPLE:- SLN1CF32 = Streetlight, nostalgia luminaire type 1, compact fluorescent 32 watt lamp.

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## STREETLIGHT POLE / FOUNDATION CONSTRUCTION TYPE

# S B 75 1 15 PC

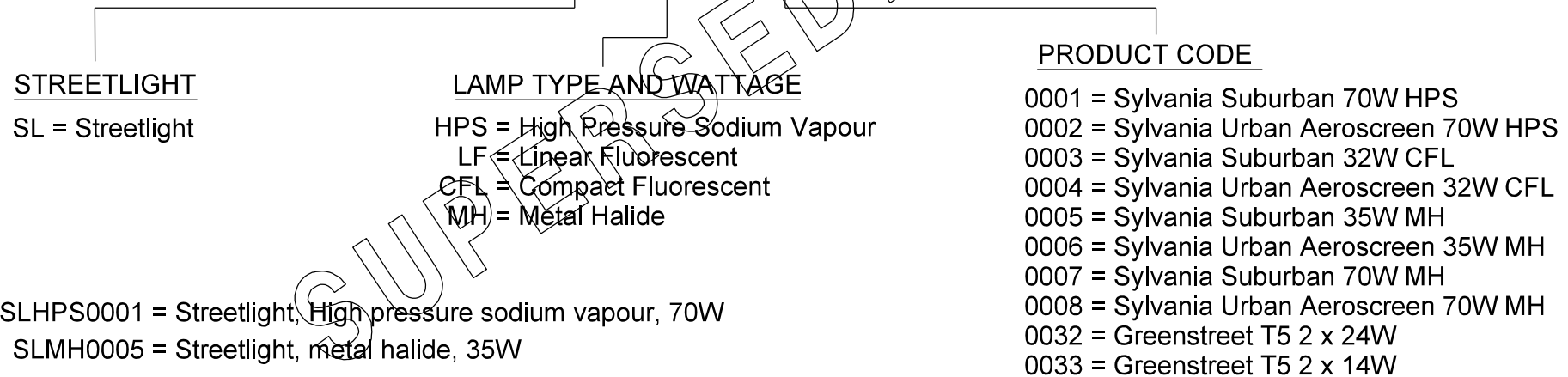


EXAMPLE:- SB75115PC = Streetlight, base plate mounted pole, 7.5m mounting height, single 1.5m outreach including precast foundation.

EXAMPLE:- SB65215 = Streetlight, base plate mounted pole, 6.5m mounting height, double 1.5m outreach, no foundation.



## STREETLIGHT LUMINAIRE MINOR ROAD CONSTRUCTION TYPE

# SL HPS 0001



EXAMPLE:- SLHPS0001 = Streetlight, High pressure sodium vapour, 70W

EXAMPLE:- SLMH0005 = Streetlight, metal halide, 35W

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					L. Burton / T. Borg	14/10/10					

# STREETLIGHT LED LUMINAIRE MINOR ROAD CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

**SLED GL 0167 N 3**

## STREETLIGHT

## SUPPLIER IDENTIFIER

## BILLABLE LOAD

## LUMINAIRE TYPE

## CORRELATED COLOUR TEMPERATURE

SLED = Streetlight LED

GL = Gerard Lighting



0250 = 25W  
0171 = 17.1W  
0219 = 21.9W  
0167 = 16.7W  
0244 = 24.4W  
0300 = 29.8W  
0325 = 32.5W

N = Normal (semi cut-off)  
A = Aeroscreen (full cut-off)  
1 = Nostalgia Type 1 (green)  
2 = Nostalgia Type 1 (black)  
3 = Nostalgia Type 1 (blue/grey)  
4 = Nostalgia Type 2 (green)  
5 = Nostalgia Type 2 (black)  
6 = Nostalgia Type 2 (blue/grey)

3 = 3000K  
(omit for 4000K)

EXAMPLE:- SLED GL 0167 N = Streetlight LED, Gerard Lighting, 17.0W, Normal (semi cut-off)

EXAMPLE:- SLED GL 0171 6 = Streetlight LED, Gerard Lighting, 17.0W, Nostalgia Type 2 (blue/grey)

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# MATERIAL - POLE

ASSY	DESCRIPTION		QTY
814-1	Pole 4.5m Nostalgia	Green	1
814-2		Blue/Grey	
814-3		Black	
818-1	Terminal panel and cable to Nostalgia		1

# MATERIAL - FOUNDATION



ASSY	DESCRIPTION	QTY
840-1	Foundation cast in situ depth 1.2m	1
855-1	Foundation precast concrete depth 1.2m	

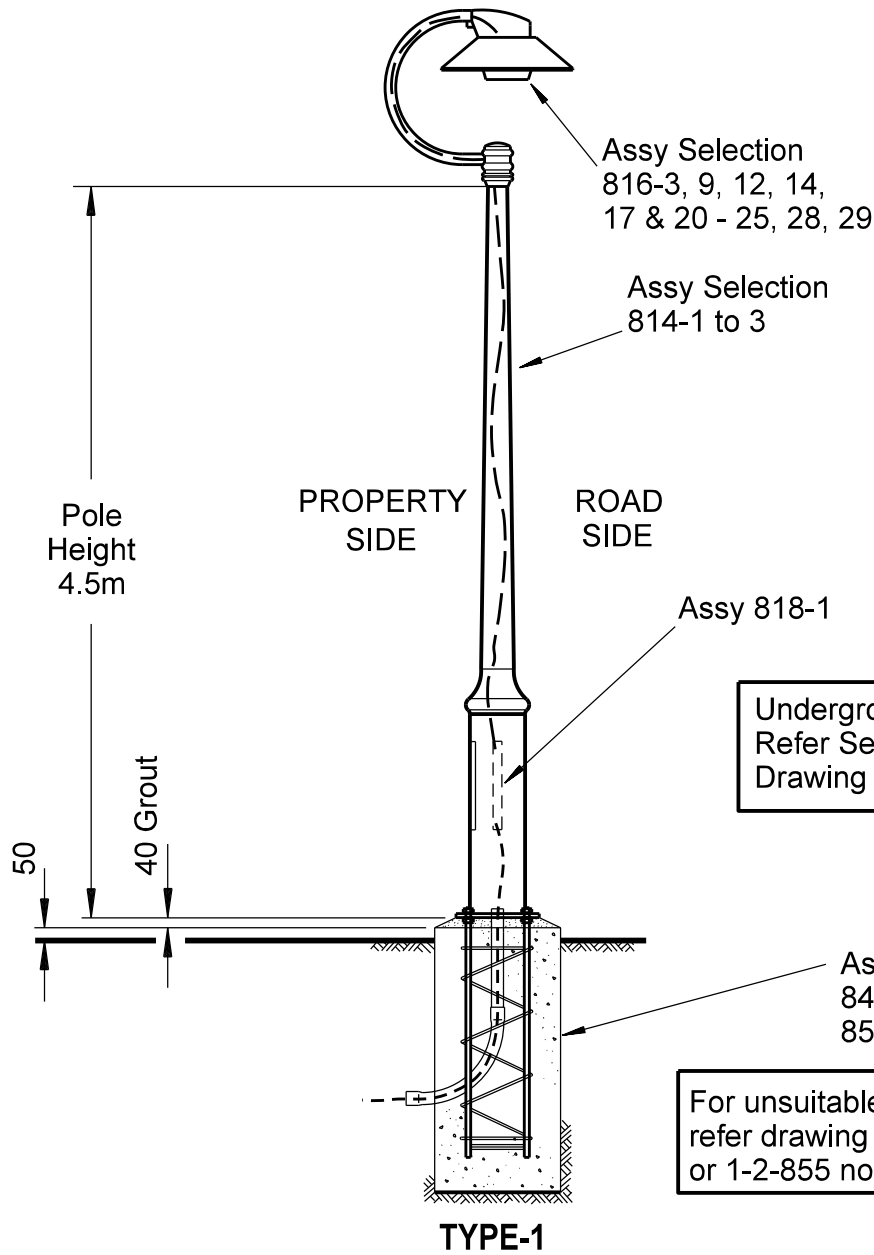
# NOTES:

1. Access door to be on side of pole that is least hazardous to maintenance personnel (normally on opposite side to oncoming traffic).
2. Neutral and earth terminals of terminal panel are to be bridged. Make bridge only after polarity has been established.
3. Ensure contact area between Base Plate and hold down bolt washers is clean, free of paint, and bolts are tight.

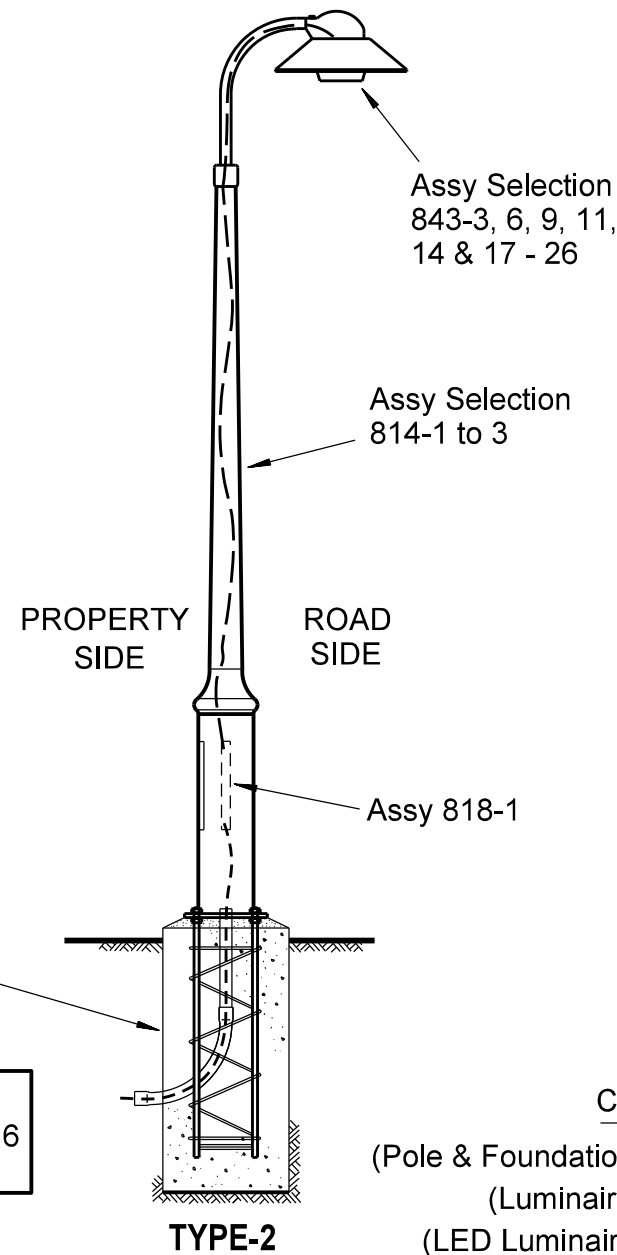
# MATERIAL - LUMINAIRE

ASSY	DESCRIPTION		QTY	
			TYPE 1	TYPE 2
816-3	Luminaire Notalgia Type 1 Green	S70	1	
816-14		CF32		
816-21		L17		
816-22		L25		
816-23		L30		
816-9	Luminaire Nostalgia Type 1 Black	S70		
816-17		CF32		
816-24		L17		
816-25		L25		
816-28		L30		
816-12	Luminaire Nostalgia Type 1 Blue Grey	S70		
816-20		CF32		
816-29		L30		
843-3	Luminaire Nostalgia Type 2 Green	S70		1
843-11		CF32		
843-21		L17		
843-23		L25		
843-25		L30		
843-6	Luminaire Nostalgia Type 2 Black	S70		
843-14		CF32		
843-22		L17		
843-24		L25		
843-26		L30		
843-9	Luminaire Nostalgia Type 2 Blue Grey	S70		
843-17		CF32		
843-18		L17		
843-19		L25		
843-20		L30		

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C	04.02.14	4927-A4-6.8, 6.9			Approved Energex	Date							
D	05.01.16	REFERENCE DRAWING ERGON			Checked	Date							
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**TYPE-1**



**TYPE-2**

Construction Type

(Pole & Foundation) **SLNOS**  
 (Luminaire) **SLN**  
 (LED Luminaire) **SLED**

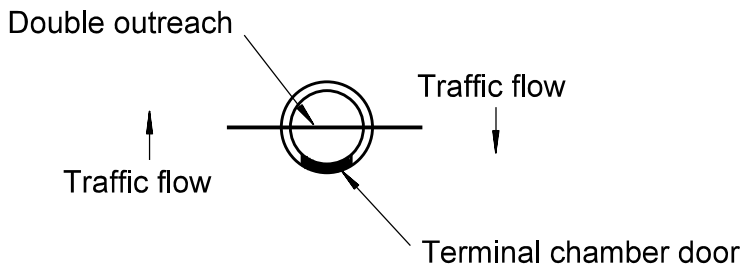
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C	04.02.14	4927-A4-6.8, 6.9									
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## MATERIAL - POLE

ASSY	DESCRIPTION	QTY	
		SINGLE OUTREACH	DOUBLE OUTREACH
872-4	Pole 5.5m Base Plate Mounted steel	1	1
815-1	Outreach arm 1.5m single	1	
815-2	Outreach arm 1.5m double		1
818-2	Minor Road Terminal panel and cable	1	
818-3	Minor Road Terminal panel and cable to double outreach		1

## MATERIAL - FOUNDATION



ASSY	DESCRIPTION	QTY	
		4.5m & 5.5m POLE	
		SINGLE OUTREACH	DOUBLE OUTREACH
840-1	Foundation cast in situ depth 1.2m	1	
855-1	Foundation precast concrete depth 1.2m		
840-2	Foundation cast in situ depth 1.5m (Ergon only)		1
855-2	Foundation precast concrete depth 1.5m (Ergon only)		



DOUBLE OUTREACH POLE ORIENTATION



### NOTES:

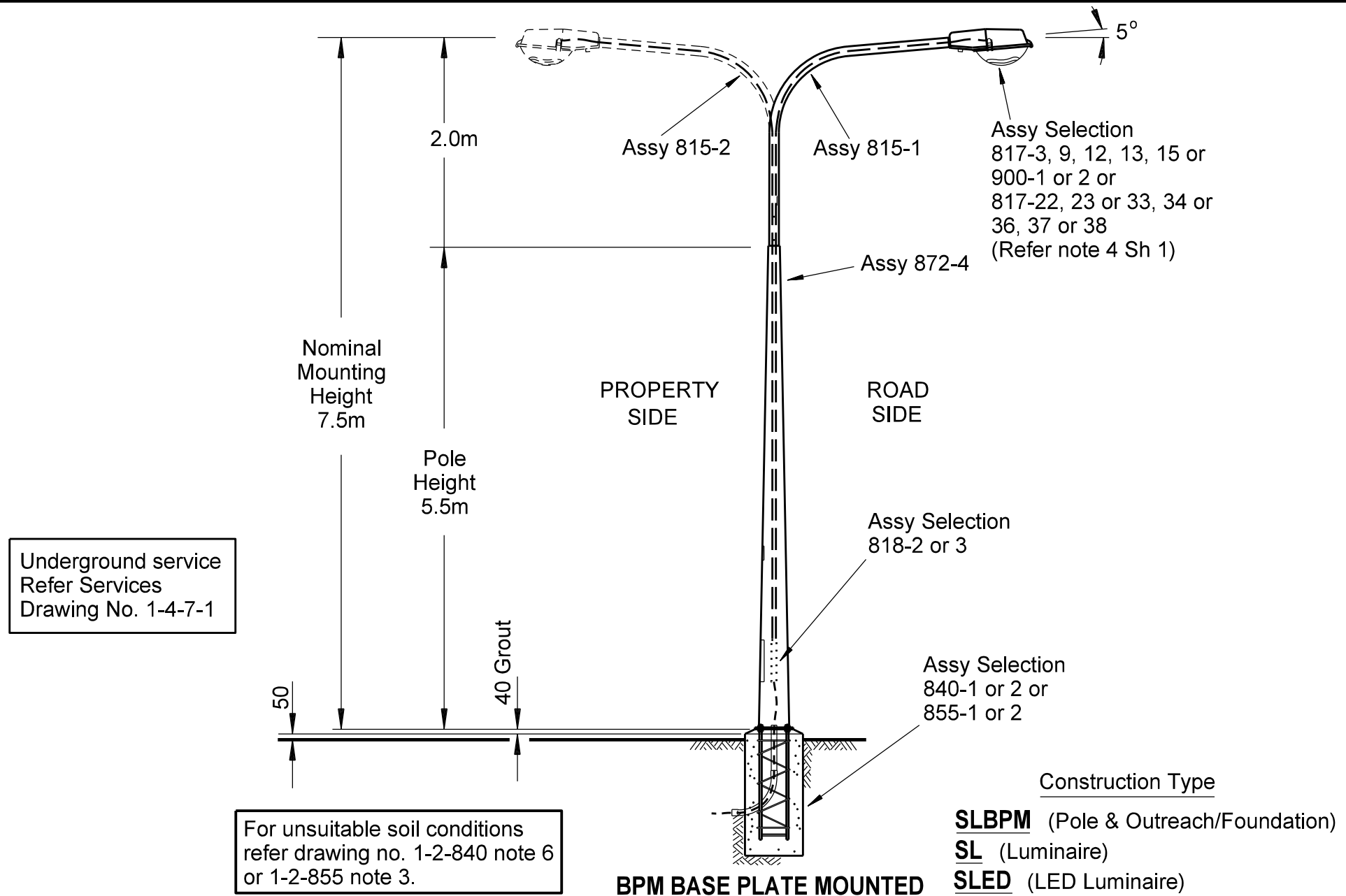
1. Access door to be on side of pole that is least hazardous to maintenance personnel. (normally on opposite side to oncoming traffic).
2. Neutral and earth terminals of terminal panel are to be bridged. Make bridge only after polarity has been established.
3. Ensure contact area between Base Plate and hold down bolt washers is clean, free of paint, and bolts are tight.
4. LED luminaires are only to be installed on approved poles. Refer to QPLDM for approved poles.



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							1	6	4-1	0F	

MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

ASSY	DESCRIPTION	LUMINAIRE MARKING	QTY														
			SLHPS001	SLCFL0003	SLMH0007	SLEDGL0167N	SLEDGL0167N3	SLLF0033	SLLF0032	SLHPS0002	SLCFL0004	SLMH0008	SLEDGL0167A	SLEDGL0167A3	SLEDGL0244A	SLEDGL0325A	SLEDGL0325A3
817-3	Luminaire normal lamp & PE cell	S70	1														
817-9		CF32		1													
817-12		H70			1												
900-1		LF214					1										
900-2		LF224						1									
817-7	Luminaire aeroscreen lamp & PE cell	S70A							1								
817-13		CF32A								1							
814-15		H70A									1						
817-22	Luminaire LED & PE cell	L17			1												
817-23		L17 3K				1											
817-33		L17A										1					
817-34		L17A 3K											1				
817-36		L24A													1		
817-37		L33A														1	
817-38		L33A 3K															1

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					L. Burton / T. Borg	14/10/10					



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## MATERIAL - POLE & OUTREACH

ASSY	DESCRIPTION		QTY
814-1	Pole 4.5m Nostalgia	Green	1
814-2		Black	
814-3		Blue/Grey	
844-2	Bracket double arm outreach	Green	1
844-4		Black	
844-6		Blue/Grey	
818-1	Terminal panel and cable to Nostalgia		1
818-3	Terminal panel and cable to double outrach arm		

## MATERIAL - FOUNDATION



ASSY	DESCRIPTION	QTY
840-1	Foundation cast in situ depth 1.2m	1
855-1	Foundation precast concrete depth 1.2m	

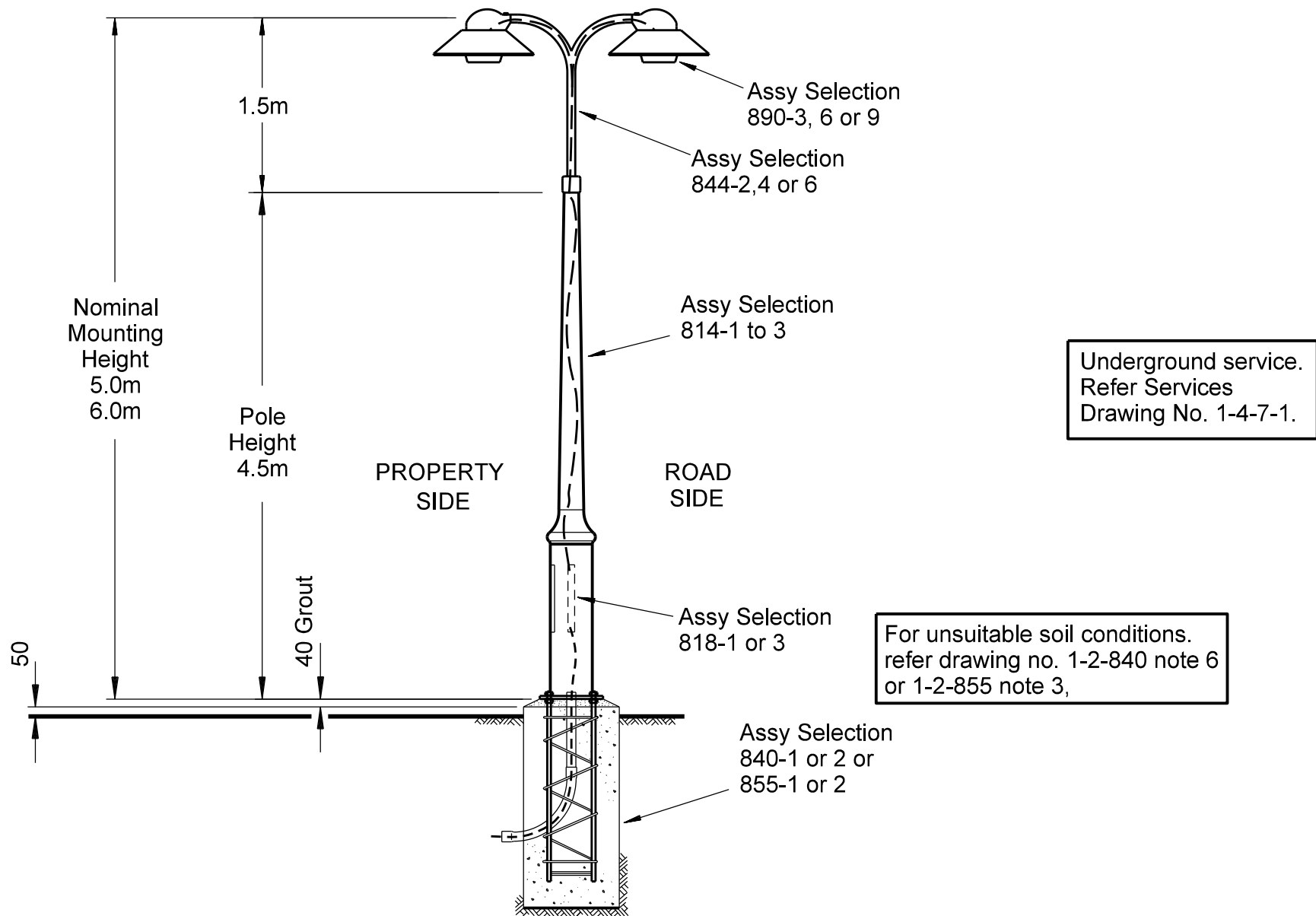
## MATERIAL - LUMINAIRE



ASSY	DESCRIPTION		QTY
890-3	Luminaire nostalgia type 2 Green (No bracket)	S70	2
890-6	Luminaire nostalgia type 2 Black (No bracket)	S70	
890-9	Luminaire nostalgia type 2 Blue/Grey (No bracket)	S70	

### NOTES:

1. Access door to be on side of pole that is least hazardous to maintenance personnel. (normally on opposite side to oncoming traffic).
2. Neutral and earth terminals of terminal panel are to be bridged. Make bridge only after polarity has been established.
3. Ensure contact area between Base Plate and hold down bolt washers is clean, free of paint, and bolts are tight.

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B	15.01.13	REFERENCE DRAWING ERGON			C. Noel	01/05/18							
C	28.03.18				Approved Energex	Date						F. Zaini	01/05/18
		NIL				Checked	Date						
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									L. Burton / T. Borg	14/10/10			



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B	15.01.13				C. Noel	01/05/18				
C	28.03.18	REFERENCE DRAWING ERGON			Approved Energex	Date				
		NIL			F. Zaini	01/05/18	Checked	Date	EE DRWG NO: 1-6-5-2 EGX DRWG NO: 10500-A4-1-6-5-2	
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					L. Burton / T. Borg	14/10/10				
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							1	6	5-2	0C

## MATERIAL - POLE & OUTREACH

ASSY	DESCRIPTION	QTY
858-1	Minor road mid hinged RH galv pole	1
858-2	Minor road mid hinged RH green pole	
858-3	Minor road mid hinged RH black pole	
858-4	Minor road mid hinged RH blue/grey pole	
818-2	Terminal panel and cable to single outreach arm	1

## MATERIAL - FOUNDATION

ASSY	DESCRIPTION	QTY
840-1	Foundation cast in situ depth 1.2m	1
855-1	foundation precast concrete depth 1.2m	

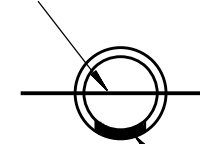
## MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

ASSY	DESCRIPTION	LUMINAIRE MARKING	QTY														
			SLHPS001	SLCFL0003	SLMH0007	SLEDGL0167N	SLEDGL0167N3	SLLF0033	SLLF0032	SLHPS0002	SLCFL0004	SLMH0008	SLEDGL0167A	SLEDGL0167A3	SLEDGL0244A	SLEDGL0325A	SLEDGL0325A3
817-3	Luminaire normal lamp & PE cell	S70	1														
817-9		CF32		1													
817-12		H70			1												
900-1		LF214					1										
900-2		LF224						1									
817-7	Luminaire aeroscreen lamp & PE cell	S70A							1								
817-13		CF32A								1							
814-15		H70A									1						
817-22	Luminaire LED & PE cell	L17				1											
817-23		L17 3K					1										
817-33		L17A										1					
817-34		L17A 3K											1				
817-36		L24A												1			
817-37		L33A													1		
817-38		L33A 3K														1	

Refer note 5

Refer note 5

Outreach





Traffic flow

Terminal chamber door

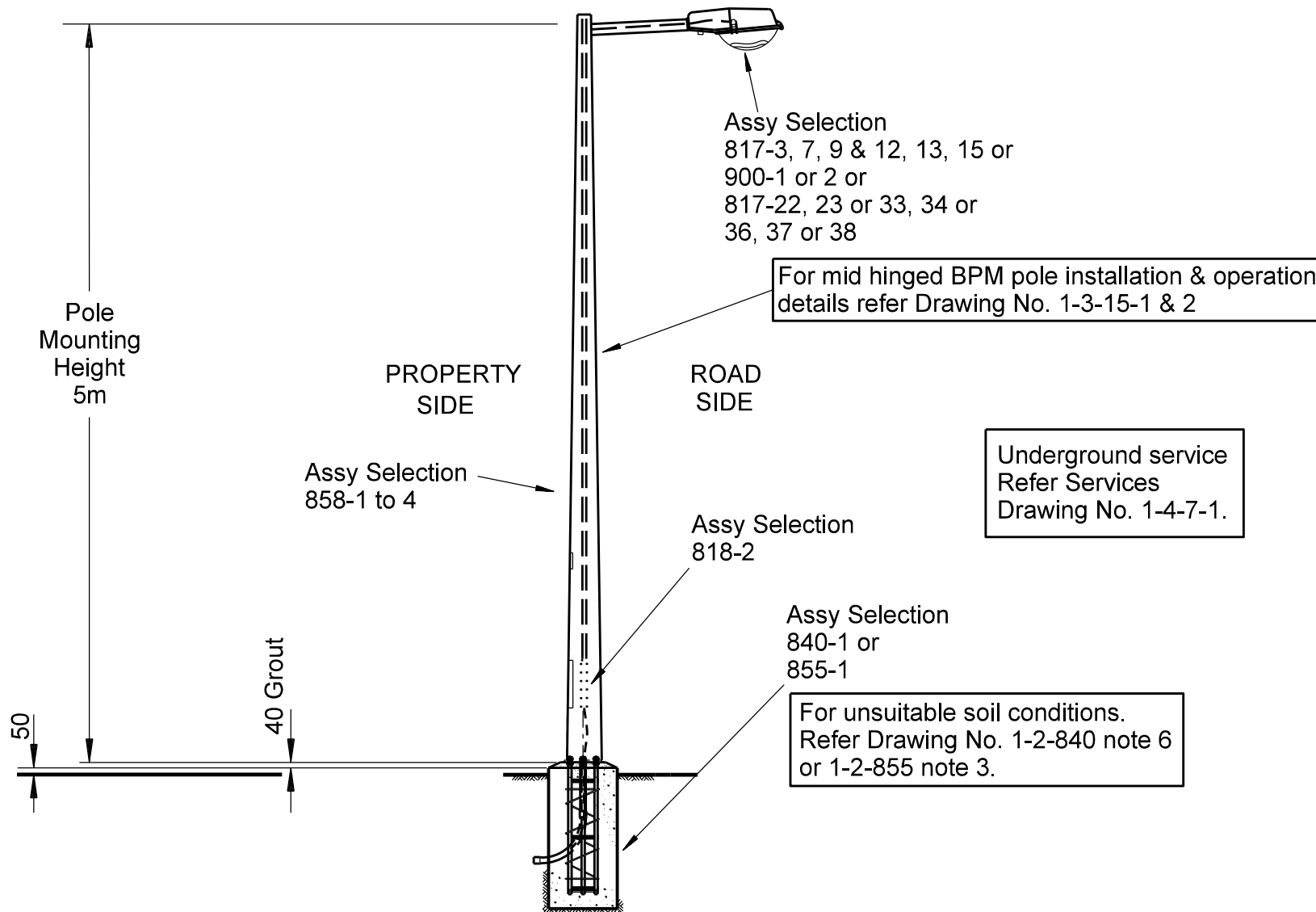
POLE ORIENTATION

### NOTES:

1. Access door to be on side of pole that is least hazardous to maintenance personnel.
2. For location of terminal chamber relative to double outreach refer diagram above.
3. Neutral and earth terminals of terminal panel are to be bridged. Make bridge only after polarity has been established.
4. Ensure contact area between Base Plate and hold down bolt washers is clean, free of paint, and bolts are tight.
5. The -5° upcast adaptor shall be removed.

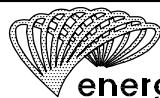
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C	04.02.14	REFERENCE DRAWING ERGON			A. Bletchly	09/08/19					
D	28.03.18				Approved Energex	Date					
E	04.09.18	NIL			This document must not be reproduced in part or whole without written permission from ENERGEX or Ergon Energy	Checked	Date	EE DRWG NO: 1-6-6-1	VOLUME	FOLDER	PAGE
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### MID HINGED BPM BASE PLATE MOUNTED POLE

A	ORIGINAL ISSUE	REFERENCE DRAWING ENERGEX		Approved Ergon	Date	<b>LIGHTING</b> COLUMNS MINOR ROAD MID HINGED BPM / FOUNDATION 0.5m SINGLE OUTREACH - CONSTRUCTION			
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# MATERIAL - POLE

ASSY	DESCRIPTION	QTY
872-9	Pole 6.5m Base Plate Mounted steel single piece	1
818-2	Terminal panel and cable to single outreach arm	

# MATERIAL - FOUNDATION



ASSY	DESCRIPTION	QTY
840-1	Foundation cast in situ depth 1.2m	1
855-1	foundation precast concrete depth 1.2m	

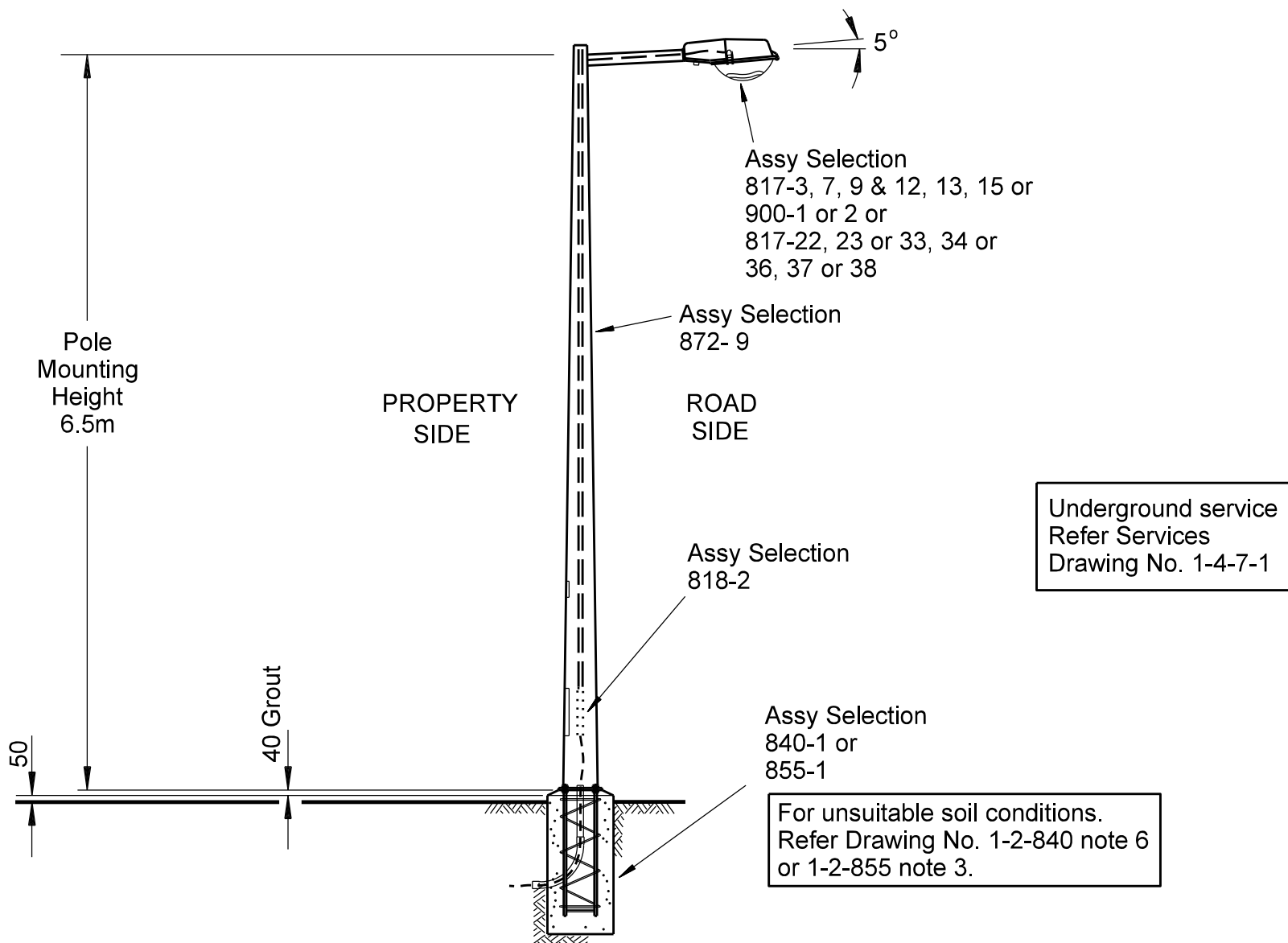
# MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

ASSY	DESCRIPTION	LUMINAIRE MARKING	QTY														
			SLHPS001	SLCFL0003	SLMH0007	SLEDGL0167N	SLEDGL0167N3	SLLF0033	SLLF0032	SLHPS0002	SLCFL0004	SLMH0008	SLEDGL0167A	SLEDGL0167A3	SLEDGL0244A	SLEDGL0325A	SLEDGL0325A3
817-3	Luminaire normal lamp & PE cell	S70	1														
817-9		CF32		1													
817-12		H70			1												
900-1		LF214					1										
900-2		LF224						1									
817-7	Luminaire aeroscreen lamp & PE cell	S70A							1								
817-13		CF32A								1							
814-15		H70A									1						
817-22	Luminaire LED & PE cell	L17				1											
817-23		L17 3K					1										
817-33		L17A										1					
817-34		L17A 3K												1			
817-36		L24A													1		
817-37		L33A														1	
817-38		L33A 3K															1



# NOTES:

1. Access door to be on side of pole that is least hazardous to maintenance personnel. (normally on opposite side to oncoming traffic).
2. Neutral and earth terminals of terminal panel are to be bridged. Make bridge only after polarity has been established.
3. Ensure contact area between Base Plate and hold down bolt washers is clean, free of paint, and bolts are tight.

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C	05.02.14	NIL			A. Bletchly	09/08/19						
D	03.04.18	REFERENCE DRAWING ERGON			Approved Energex	Date						
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### BPM BASE PLATE MOUNTED

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