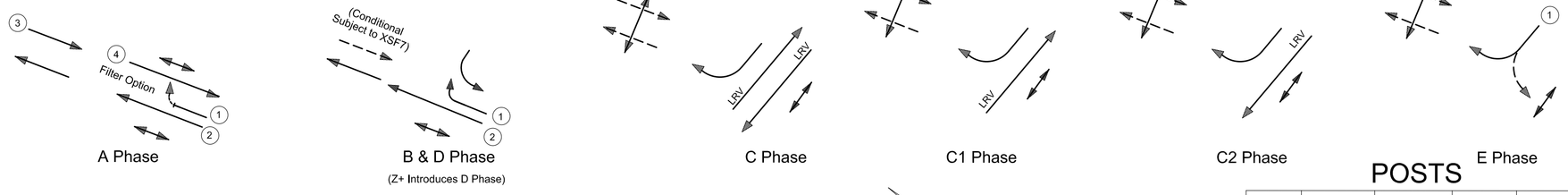
TCS 2836

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 16/10/1988

NSW GOVERNMENT Transport Roads & Maritime Services



MOVEMENTS

POSTS

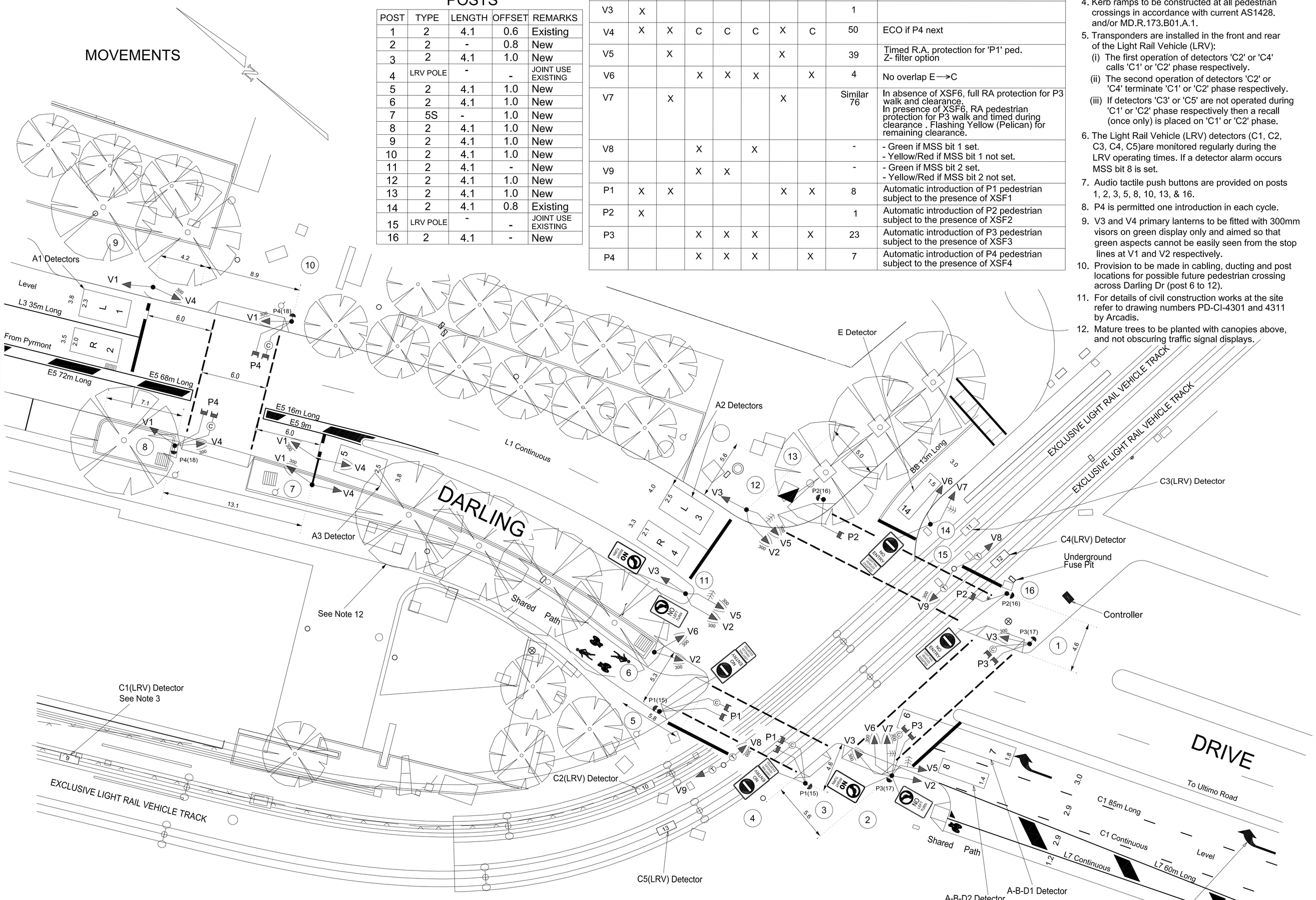
POST	TYPE	LENGTH	OFFSET	REMARKS
1	2	4.1	0.6	Existing
2	2	-	0.8	New
3	2	4.1	1.0	New
4	LRV POLE	-	-	JOINT USE EXISTING
5	2	4.1	1.0	New
6	2	4.1	1.0	New
7	5S	-	1.0	New
8	2	4.1	1.0	New
9	2	4.1	1.0	New
10	2	4.1	1.0	New
11	2	4.1	-	New
12	2	4.1	1.0	New
13	2	4.1	1.0	New
14	2	4.1	0.8	Existing
15	LRV POLE	-	-	JOINT USE EXISTING
16	2	4.1	-	New

SIGNAL GROUP/PHASE CHART

SIGNAL GROUP	PHASES WHEN GREEN							STANDARD TABLE	REMARKS
	A	B	C	C1	C2	D	E		
V1	X	C	C	C	C	C	C	50	i) ECO if P4 next ii) V1 conditional in B and D phases subject to presence of XSF7.
V2	X	X				X		3	
V3	X							1	
V4	X	X	C	C	C	X	C	50	ECO if P4 next
V5		X				X		39	Timed R.A. protection for 'P1' ped. Z- filter option
V6			X	X	X		X	4	No overlap E⟶C
V7		X				X		Similar 76	In absence of XSF6, full RA protection for P3 walk and clearance. In presence of XSF6, RA pedestrian protection for P3 walk and timed during clearance . Flashing Yellow (Pelican) for remaining clearance.
V8			X		X			-	- Green if MSS bit 1 set. - Yellow/Red if MSS bit 1 not set.
V9			X	X				-	- Green if MSS bit 2 set. - Yellow/Red if MSS bit 2 not set.
P1	X	X				X	X	8	Automatic introduction of P1 pedestrian subject to the presence of XSF1
P2	X							1	Automatic introduction of P2 pedestrian subject to the presence of XSF2
P3			X	X	X		X	23	Automatic introduction of P3 pedestrian subject to the presence of XSF3
P4			X	X	X		X	7	Automatic introduction of P4 pedestrian subject to the presence of XSF4

DETECTOR SPECIFICATION

Detector		Specifications				
A1	FN	A(L)	A(E3)			
	SG/PS	$\overline{V1}$	A			
	DS	—	—			
A2	FN	A(L)	A(E4)			
	SG/PS	$\overline{A}$	A			
	DS	—	—			
A3	FN	A(L)				
	SG/PS	$\overline{V4}$				
	DS	—	—			
A-B-D1 APP./DEP.	FN	B(PR)	D(PR)			
	SG/PS	A	A			
	DS	Z-	Z-.Z+			
A-B-D1 APP.	FN	A(L).B(L)	D(L)	B(L)	D(L)	
	SG/PS	$\overline{V2}$	$\overline{V2}$	$\overline{V5}$	$\overline{V5}$	
	DS	Z-	Z-.Z+	$\overline{Z}$-	$\overline{Z}$-.Z+	
A-B-D1 APP.	FN	A(E1)		B(E1)	D(E1)	
	SG/PS	A		B	D	
	DS	Z-. $\overline{A\text{-}B\text{-}D1(PR).B(NXT).D(NXT)}$		D(NEXT)	$\overline{B(NEXT)}$	
A-B-D2	FN	A (L)	A(E2)	B(E2)	D(E2)	
	SG/PS	$\overline{V2}$	A	B	D	
	DS	$\overline{B.D}$	$\overline{B(NXT).D(NXT)}$	$\overline{A(NXT).D(NXT)}$	$\overline{A(NXT).B(NXT)}$	
E	FN	E(PR)	E(E1)			
	SG/PS	$\overline{E}$	E			
	DS	—	—			
LRV DETECTORS C1,C2 C4	FN	C(L)	C1 sets MSS bit 3 C2 first operation sets MSS bit 1 and clears MSS bit 3 C4 first operation sets MSS bit 2			
	SG/PS	$\overline{C}$				
	DS	—				
LRV DETECTORS C3,C5	FN	NO CALL	C3 second operation clears MSS bit 1 C5 second operation clears MSS bit 2			
	SG/PS	FUNCTION				
	DS	—				
P1 P.B.	FN	A(PB)	Re -introduce WALK			
	SG/PS	C.P1(WALK)	C.P1(WALK)			
	DS	B.D.$\overline{E}$	$\overline{C}$			
P2 P.B.	FN	A(PB)	B(L)			
	SG/PS	P2(WALK)	P2(WALK)			
	DS	-	B.C.$\overline{E}$.D			
P3 P.B.	FN	E(PB)	A(L)			
	SG/PS	V6.P3(WALK)	V6.P3(WALK)			
	DS	$\overline{C}$	$\overline{A}$.B.D			
P4 P.B.	FN	E(PB)	A(L)			
	SG/PS	$\overline{V6.P4(WALK)}$	V6.P4(WALK)			
	DS	$\overline{C}$	$\overline{A}$.B.D			



NOTES

1. This site is SCATS linked.
2. Special STOP sign (R1-4) placed on post 14.
3. C1(LRV) detector is preformed and installed in track ballast.
4. Kerb ramps to be constructed at all pedestrian crossings in accordance with current AS1428. and/or MD.R.173.B01.A.1.
5. Transponders are installed in the front and rear of the Light Rail Vehicle (LRV):
   (i) The first operation of detectors 'C2' or 'C4' calls 'C1' or 'C2' phase respectively.
   (ii) The second operation of detectors 'C2' or 'C4' terminate 'C1' or 'C2' phase respectively.
   (iii) If detectors 'C3' or 'C5' are not operated during 'C1' or 'C2' phase respectively then a recall (once only) is placed on 'C1' or 'C2' phase.
6. The Light Rail Vehicle (LRV) detectors (C1, C2, C3, C4, C5)are monitored regularly during the LRV operating times. If a detector alarm occurs MSS bit 8 is set.
7. Audio tactile push buttons are provided on posts 1, 2, 3, 5, 8, 10, 13, & 16.
8. P4 is permitted one introduction in each cycle.
9. V3 and V4 primary lanterns to be fitted with 300mm visors on green display only and aimed so that green aspects cannot be easily seen from the stop lines at V1 and V2 respectively.
10. Provision to be made in cabling, ducting and post locations for possible future pedestrian crossing across Darling Dr (post 6 to 12).
11. For details of civil construction works at the site refer to drawing numbers PD-CI-4301 and 4311 by Arcadis.
12. Mature trees to be planted with canopies above, and not obscuring traffic signal displays.

A	ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT	□	SYMBOLS/ABBS.	VD003-6
STOP VALVE	△	STD POSIT	VD001-5
GAS VALVE	#	PRES. DETECT	VC005-17
SEWER MANHOLE	⊛	VEH. GROUP OP	TS-TN-019
TELECOM PIT	◪	DET. LOGIC OP	TS-TN-020
ELECT LIGHT POLE	☼	PED. MOVEMNT OP	TS-TN-021
POWER POLE	○		
STAY POLE	⊘		
TELEPHONE BOX	T	SURVEYOR : Rygate and Co.	
TELECOM PILLAR	⊘	DATE : June 2013	

U.B.D. Ref. Map 3 C12
I.S.G. CO-ORDS E: 318 171 N: 1 249 771
DESIGNED J. SINGH
CHECKED C. TOMA
C. TOMA SITE CHECKED
B. LO RECOMMENDED

DESIGN APPROVAL	RMS ACCEPTANCE
APPROVED	RECOMMENDED
R. NETTLE	POSITION
POSITION DIRECTOR	DATE
DATE 20.04.2017	ACCEPTED
DESIGN PREPARED BY TRANSPORT AND TRAFFIC PLANNING ASSOCIATES	POSITION
	DATE

ROADS AND MARITIME SERVICES

SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT DARLING DRIVE, ENTERTAINMENT CENTRE CARPARK AND LIGHT RAIL CROSSING
HAYMARKET

DESIGN LAYOUT TCS No 2836

EXISTING ☐ PROPOSED ☒

CADD FILE: VV2836_11A.dgn

SCALE 5 0 (1:200) 5 10

ISSUE A

FILE SF2014/012188

SUPERSEDES SHEET/ISSUE 10/A

REG No. DS2014/003225

TCS No. 2836

SHEET 11