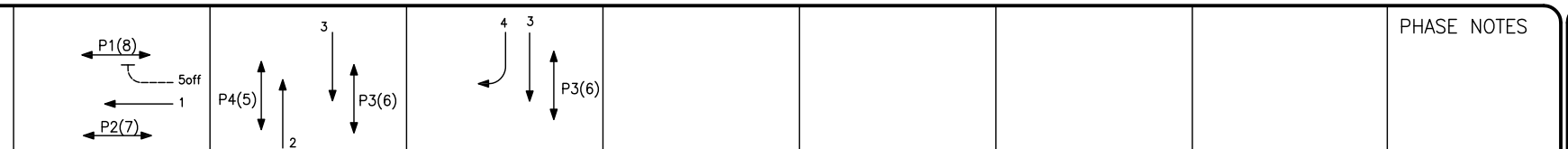
PHASE DIAGRAMS

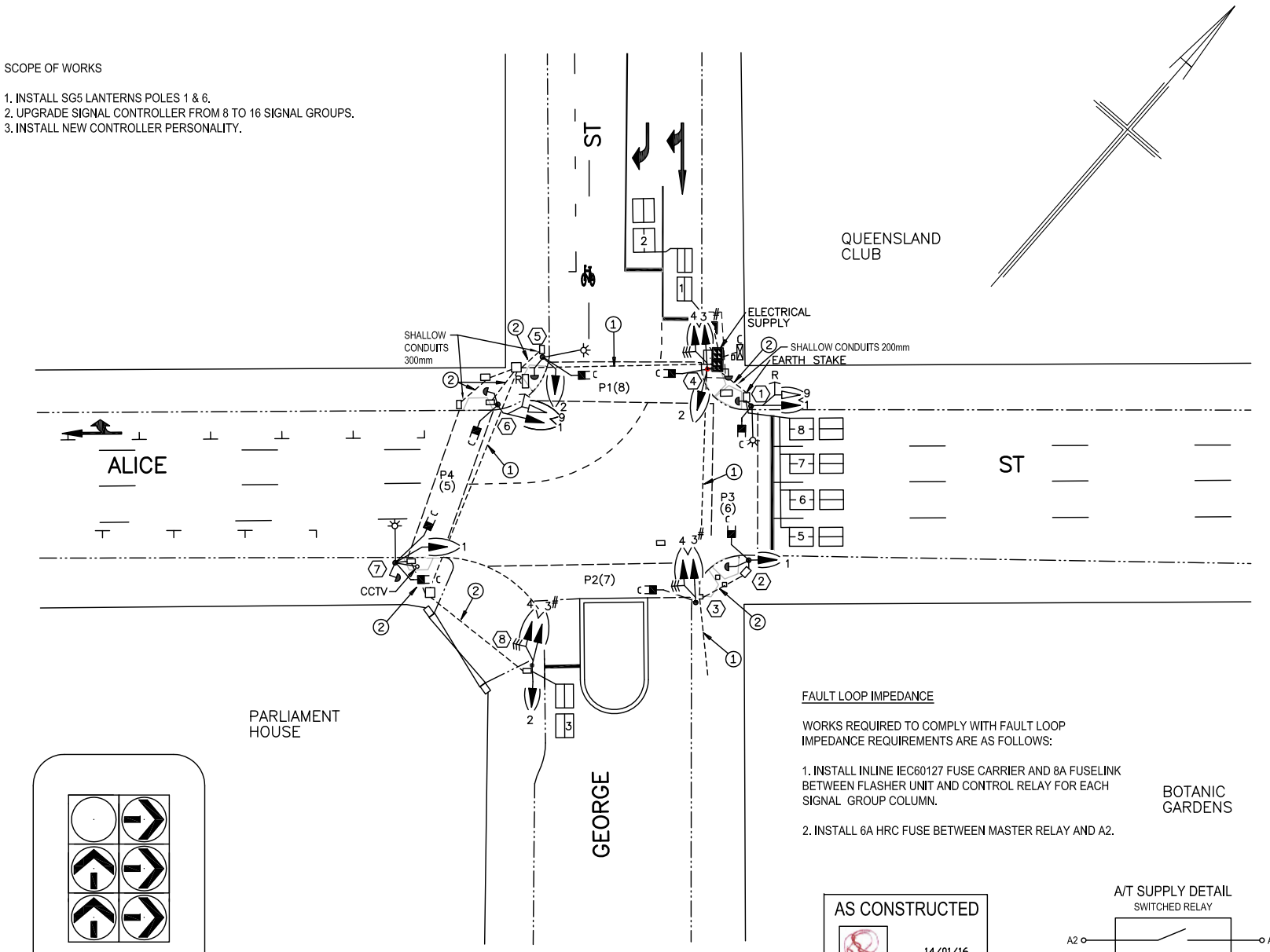


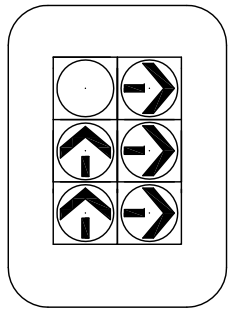
	'A' PHASE			'B' PHASE				'C' PHASE			'D' PHASE	'E' PHASE	'F' PHASE	'G' PHASE
SIGNAL GROUPS	1	P1	P2	2	3	P3	P4	3	4	P3				
ASSOCIATED DETECTORS	5,6,7,8	24	AUTO	3	1	23	22	1	1,2	23				
CALL	X	X	X	X			X	X	X	X				
EXTEND	X			X					X					
NOTES	PPUL OR PNEG FOR P2			PPUL OR PNEG FOR P3 P3 OVERLAP TO 'C' PHASE				PPUL OR PNEG FOR P3 P3 OVERLAP TO 'B' PHASE						

PHASE NOTES

SCOPE OF WORKS

1. INSTALL SG5 LANTERNS POLES 1 & 6.
2. UPGRADE SIGNAL CONTROLLER FROM 8 TO 16 SIGNAL GROUPS.
3. INSTALL NEW CONTROLLER PERSONALITY.





SG3 SG4
POLES 3, 4 & 8

5 0 5 10 15 20 25 METRES

SCALE 1 : 250 (BEFORE REDUCTION)

FAULT LOOP IMPEDANCE

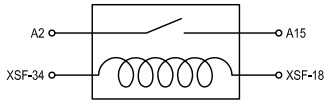
WORKS REQUIRED TO COMPLY WITH FAULT LOOP IMPEDANCE REQUIREMENTS ARE AS FOLLOWS:

1. INSTALL INLINE IEC60127 FUSE CARRIER AND 8A FUSELINK BETWEEN FLASHER UNIT AND CONTROL RELAY FOR EACH SIGNAL GROUP COLUMN.

2. INSTALL 6A HRC FUSE BETWEEN MASTER RELAY AND A2.

AS CONSTRUCTED
14/01/16
Responsible Person Date
Feedback to Design [X] Yes [ ] No
R. Diehn For R.Englert
R. Englert
Ph: 34037010

A/T SUPPLY DETAIL
SWITCHED RELAY



A/T SUPPLY DRIVEN BY SPOP8 VIA 24V DC RELAY

CONTROLLER TYPE: EC1 (TOP HAT)

GROUPS	FUNCTION	CONTROLLER TERMINALS	RUN 1 CONNECTS FINIAL TERMINALS	RUN 1 CORES	RUN 1 USED	RUN 2 CONNECTS FINIAL TERMINALS	RUN 2 CORES	RUN 2 USED	RUN 3 CONNECTS FINIAL TERMINALS	RUN 3 CORES	RUN 3 USED	RUN 4 CONNECTS FINIAL TERMINALS	RUN 4 CORES	RUN 4 USED	RUN 5 CONNECTS FINIAL TERMINALS	RUN 5 CORES	RUN 5 USED
1	RED	A5	1	1		1	1										
	YELLOW	A4	2	2		2	2										
	GREEN	A3	3	3		3	3										
2	RED	A8				4	4										
	YELLOW	A7				5	5										
	GREEN	A6				6	6										
3	RED	A11	7	7		7	7										
	YELLOW	A10	8	8		8	8										
	GREEN	A9	9	9		9	9										
4	RED	A14	10	10		10	10										
	YELLOW	A13	11	11		11	11										
	GREEN	A12	12	12		12	12										
9	RED	C5	13	13		18	18										
CITY SAFE CCTV						17	17										
P1(8)	WALK	B12				13	13										
	DT WALK	B14				14	14										
P2(7)	WALK	B9	15	15		15	15										
	DT WALK	B11	16	16		16	16										
P3(6)	WALK	B6	17	17													
	DT WALK	B8	18	18													
P4(5)	WALK	B3				19	19										
	DT WALK	B5				20	20										
	A/T SUPPLY	A15	21	21		21	21										
	240v SUPPLY	A2	22	22		22	22										
P1 A/T	I/P 24	E5				23	23										
P3 A/T	I/P 23	E7	23	23													
P4 A/T	I/P 22	E8				24	24										
	32v RETURN	E3	C	25			25										
	NEUTRAL	A1,B1	N	BK	BK		BK										
	SPARE CORES			4-6,14 19,20,24			26										
	CABLE SIZE			27			29										

SYMBOL LEGEND

SYMBOL	DESCRIPTION FOR COMPLETE LIST REFER A.S.1100 PART 401	
	S.E.Q.E.B. CONDUIT 100MM	①
	B.C.C. TRAFFIC SIGNAL CONDUIT 100MM	②
	75MM CONDUIT	③
	25MM PIPE	④
	TRAFFIC SIGNAL CONTROLLER	
	DETECTOR LOOP	
	DETECTOR LOOP	
E.S.P.	ELECTRICITY SUPPLY FOR CONTROLLER	
	POST	
	MAST ARM (LENGTH TO SCALE)	
	J/U POLE	
	3 ASPECT 200MM VEHICLE LANTERN	
	3 ASPECT 300MM VEHICLE LANTERN	
	3 ASPECT 200MM RT. TURN VEHICLE LANTERN	
	3 ASPECT 300MM RT. TURN VEHICLE LANTERN	
	1 ASPECT 200MM RT. TURN VEHICLE LANTERN	
	1 ASPECT 300MM RT. TURN VEHICLE LANTERN	
	PEDESTRIAN DISPLAY (C=WITH COUNTDOWN PEDESTRIAN TIMERS)	
	PEDESTRIAN PUSH BUTTON	
	VISOR OPEN	
	VISOR CLOSED	
	VISOR CUT AWAY LEFT HAND	
	VERTICAL LOUVRE	
	HORIZONTAL LOUVRE	

DETECTOR TABLE

DETECTOR NUMBER	LOOP LOCATION	LOOP FEEDER TERMINALS	SENSOR CHANNEL	V.I.D. CHANNEL	SENSOR SETTING	CONTROLLER INPUT
1		P 1	1	1	PRES	1
2		P 2	2	2	PRES	2
3		P 3	3	3	PRES	3
5		P 5	5	5	PRES	5
6		P 6	6	6	PRES	6
7		P 7	7	7	PRES	7
8		P 8	8	8	PRES	8

ISSUE	AMENDMENT	DATE	CHECKED	AUTHORISED	WORKS/ORDER DATE	COMPL. DATE	MICRO
H	AS CONSTRUCTED		BW 28.06.16	MM 28.06.16			11.12.15
G	INSTALL SG5 PED PROTECTION		BW 25.02.15	SM 25.02.15			11.12.15
F	INSTALL PEDESTRIAN COUNTDOWN TIMERS		MTK 19.02.14	JL 19.02.14		30.1.14	
E	AS CONSTRUCTED		BW 22.02.13	SM 22.02.13		17.1.13	
D	ISSUE 'C' NOT INSTALLED. CHANGE SG3 TO GREEN UP ARROW. UPGRADE CONTROLLER TO EC1		BW 3.10.12	AMG 3.10.12	495850	17.1.13	
C	~~INSTALL BIKE PUSH BUTTONS, CHANGE SG3 TO GREEN UP ARROW~~		~~CJC 21.7.10~~	~~SLT 21.7.10~~		NEVER INSTALLED	
B	AS INSTALLED, LED RETRO FITS, POSTS & PITS AMENDED AS ON SITE.		BW 21.1.04	CIG 22.1.04		01.05.03	
A	REDRAWN FROM W646 AND T3/646/2, CHANGE CONTROLLER TO PSC 2000 MK2, POSTS 4.1m, LANTERNS TO ELV, INSTALL VID, ALTER CABLING AND CONNECTIONS.	AS INSTALLED	RJB 6/10/99	RAW 6/10/99	GB003639 GB003638 GB003637	30.12.99 29.11.99 29.11.99	

ADDITIONAL INFORMATION

SUPERSEDES W 646 & T3/646/2

P2 CANNOT HAVE AUDIO TACTILES INSTALLED DUE TO PARLIAMENT HOUSE DRIVEWAY
P2 DOESN'T HAVE BUTTONS, CALLED EACH CYCLE.
ALL LANTERNS ARE LED TYPE.
*COUNTDOWN TIMERS INSTALLED

SIGNAL DESIGN ACCEPTED
Original Signed
T.E.KNEEBONE DATE
SENIOR ENGINEER – TRAFFIC MANAGEMENT

DESIGN ACCEPTED
Original Signed
B TAYLOR DATE 10.4.90
PRINCIPAL ENGINEER – ROAD & TRAFFIC DESIGN

CADD REFERENCE
CD110188
B0047B.DWG

PLAN CUSTODIAN
REGISTERED
MICROFILM

DESIGN		
DESIGN CHECKED		
DRAWN		
TRACED	S.K.	JULY'99
ELECT. DESIGN CHECKED		

FILE NO.
SERVICES FILE NO.
ACQUISITION FILE NO.
SUR PLAN NO.

Brisbane City

JOB
GEORGE AND ALICE STS CITY
SITE N. B0047

DRAWING TITLE
TRAFFIC SIGNAL INSTALLATION
TRAVEL DEMAND MANAGEMENT DRAWING N°.
S646
DRAWING SHEET 1 OF 1 SHEETS

BRISBANE CITY COUNCIL
CITY DESIGN
ROAD AND TRAFFIC DESIGN

DRAWING SHEET OF	ISSUE N°.:–	
DRAWING N°. CD100874	SHEET N°.	AMEND. H