

- NOTES.**
- Pavement markings shown are the desired layout and shall supersede the existing markings.
 - Pavement markings shall be in accordance with the Manual of Uniform Traffic Control Devices (Qld.)
 - Lighting poles shall be located 1.5m behind the kerb and channel. Lighting pole outreach sections shall be radial to the kerb and channel.

- LEGEND.**
- Existing sign
 - Relocated sign
 - Lighting column and luminaire
 - Pit and PVC ducting (existing)
 - (proposed)

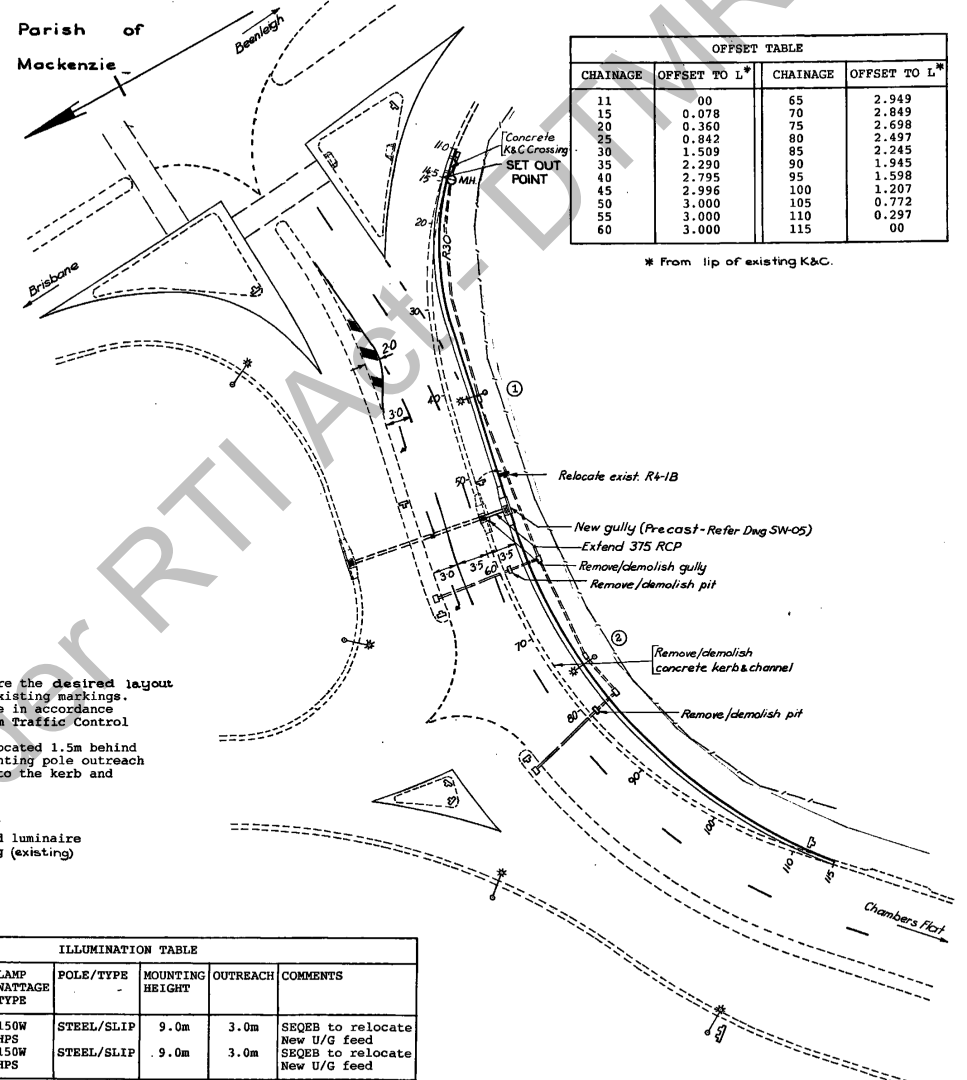
ILLUMINATION TABLE

LAMP No.	CHAINAGE	LAMP WATTAGE TYPE	POLE/TYPE	MOUNTING HEIGHT	OUTREACH	COMMENTS
①	40	150W HPS	STEEL/SLIP	9.0m	3.0m	SEQEB to relocate New U/G feed
②	77	150W HPS	STEEL/SLIP	9.0m	3.0m	SEQEB to relocate New U/G feed

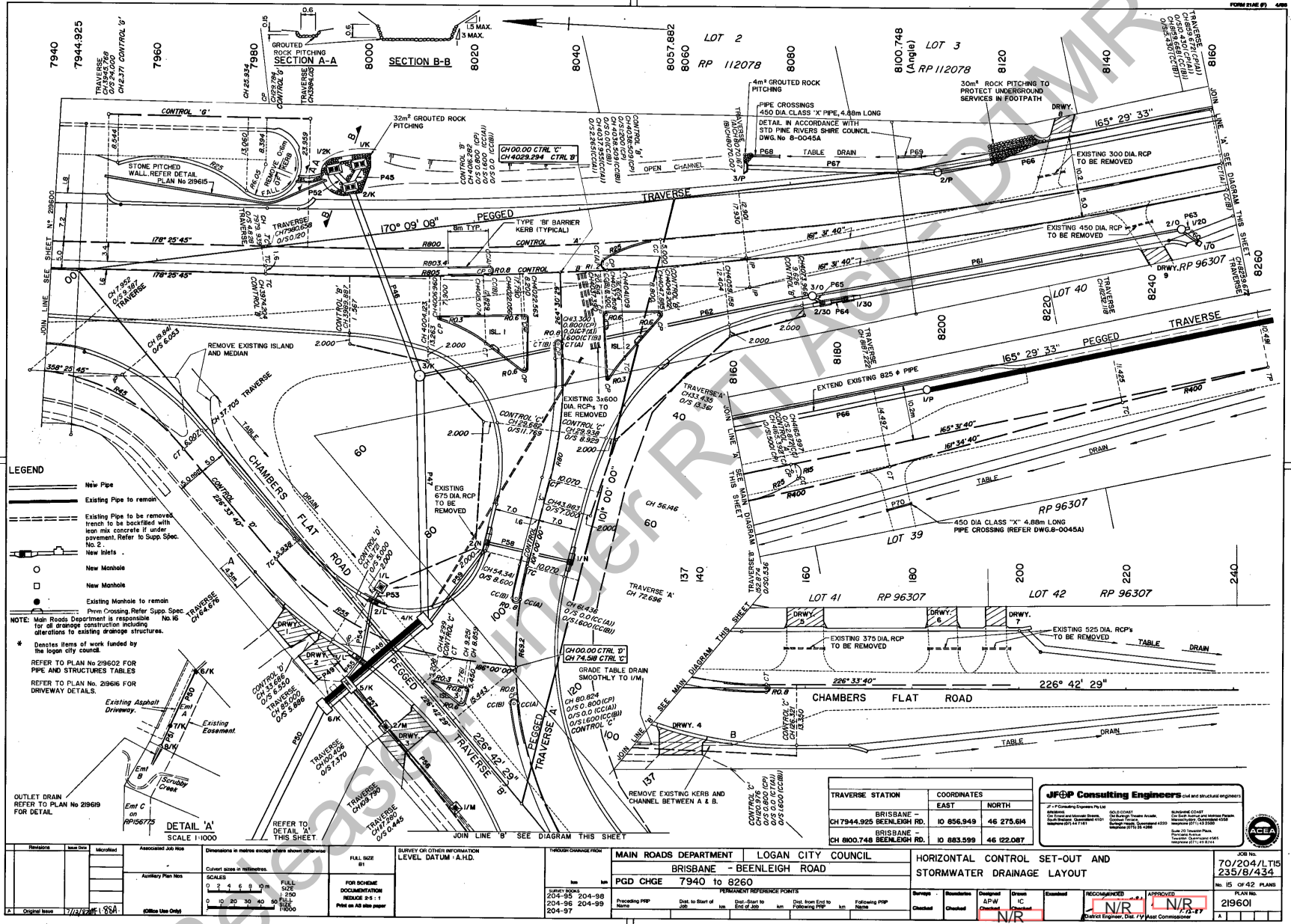
OFFSET TABLE

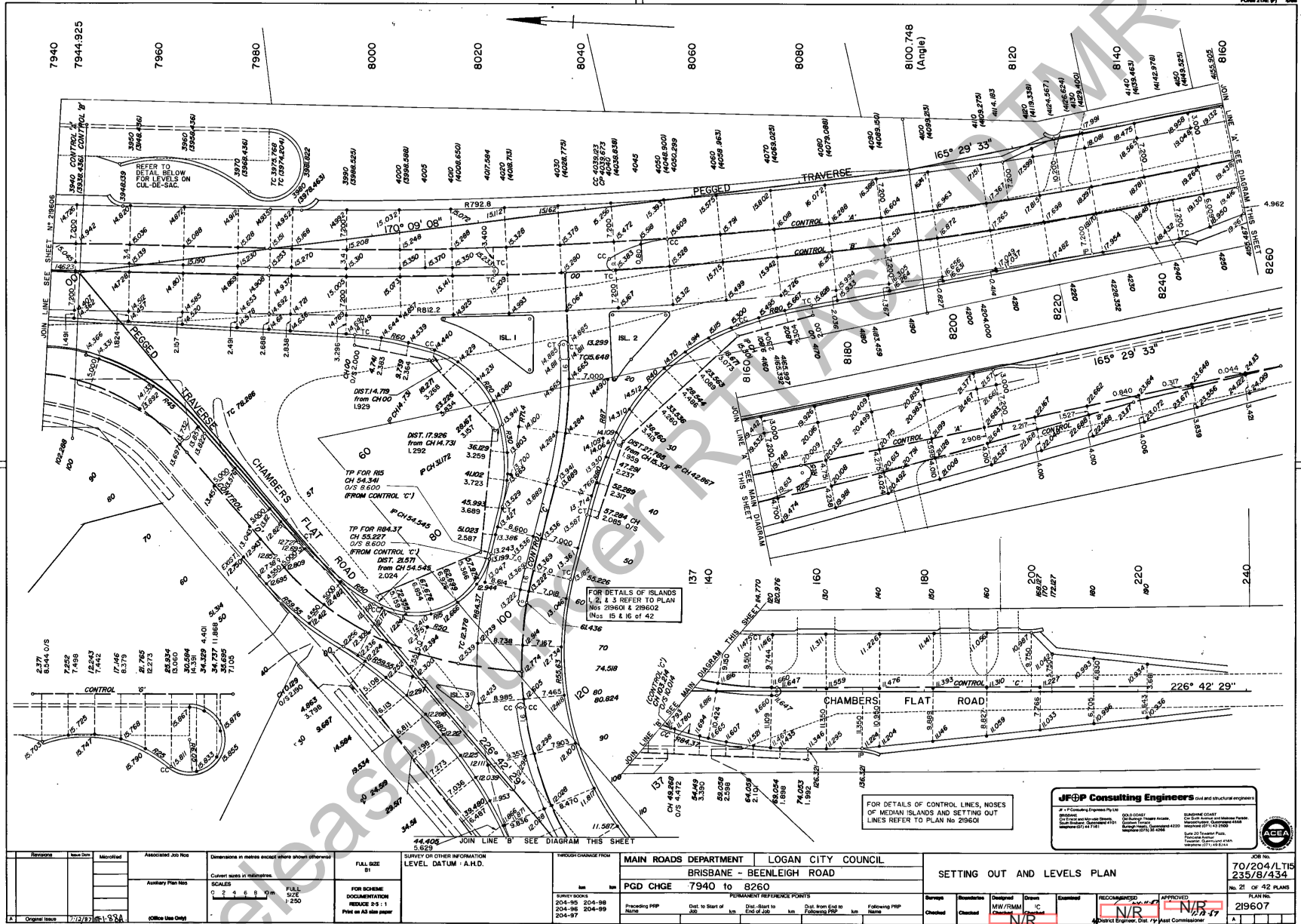
CHAINAGE	OFFSET TO L*	CHAINAGE	OFFSET TO L*
11	00	65	2.949
15	0.078	70	2.849
20	0.360	75	2.698
25	0.842	80	2.497
30	1.509	85	2.245
35	2.290	90	1.945
40	2.795	95	1.598
45	2.996	100	1.207
50	3.000	105	0.772
55	3.000	110	0.272
60	3.000	115	00

* From lip of existing K&C.



Revisions	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	LOGAN CITY BRISBANE - BEENLEIGH ROAD II - I15 (Local Chge. Chambers Flat Rd.)		INTERSECTION WIDENING				Main Roads Main Roads Department, Queensland	JOB No. 70/204/807	No. 1 of 1 plans Plan No. 213572
A	Original issue	2/1/80	(Office use only)	Scales Plan: 0 5 10 15 20 metres	1:250 Full size	Through chainage from Underwood Rd. 9+7 km.	Permanent Reference Points Preceding PRP name: NQ119383M Dist. to start of job (km): 0 Dist. from start to end of job (km) following PRP (km): 3.09 Following PRP name: NQ139366A		Survey Checked	Boundaries Checked	Drawn J.W.B. Checked			





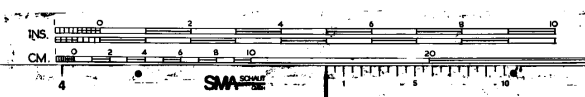
Revisions	Date	Modified	Associated Job No	Dimensions in metres except where shown otherwise

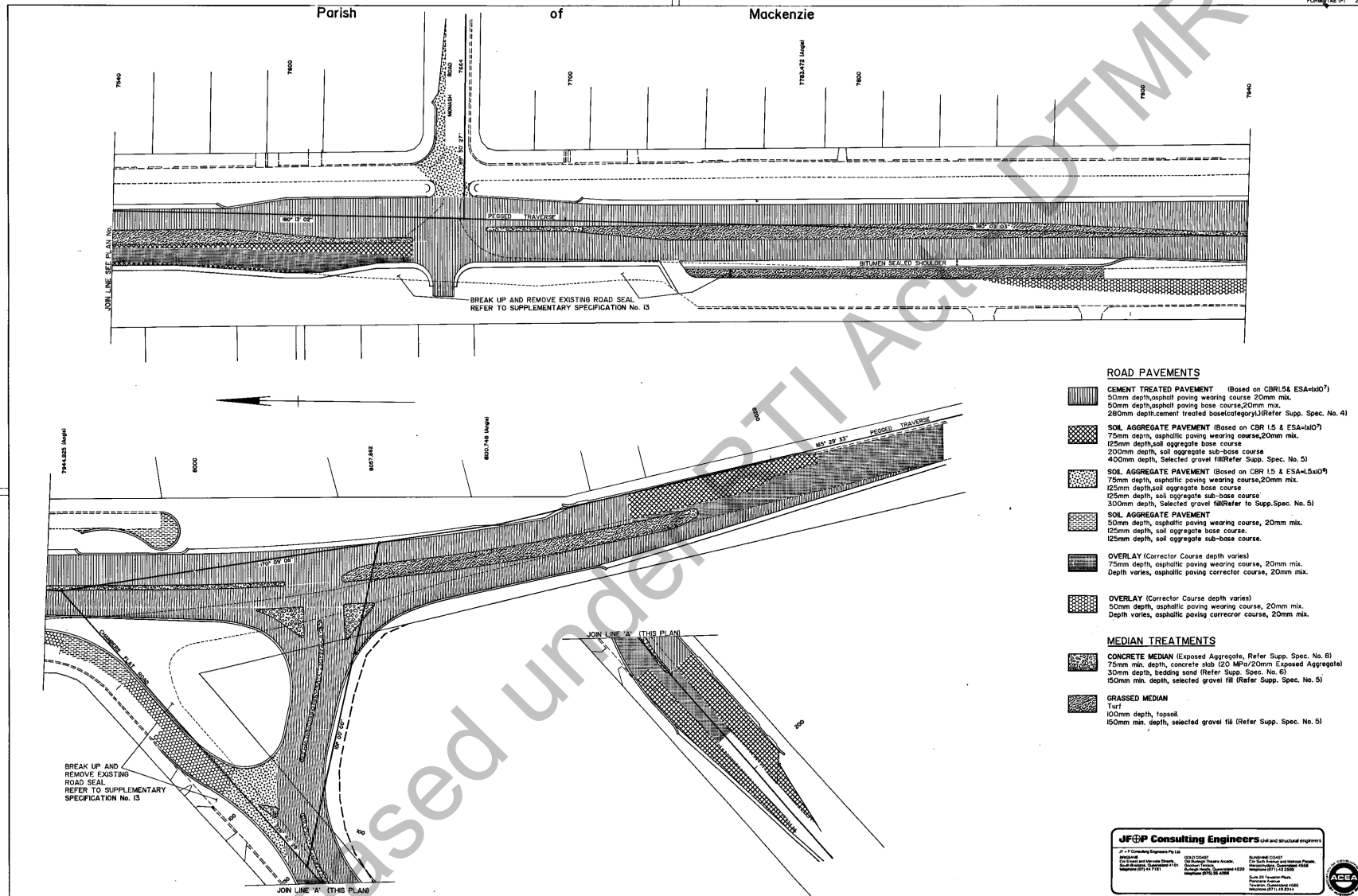
Scale	Full Size	For Scheme Documentation
1:250		

Survey Books	Through Change From	Main Roads Department	Logan City Council
204-95, 204-96, 204-98, 204-99		BRISBANE - BEENLEIGH ROAD	

Setting Out	Check	Drawn	Checked	Approved

Job No.	Plan No.
70/204/LTIS 235/8/434	219607





- ROAD PAVEMENTS**
- CEMENT TREATED PAVEMENT** (Based on CBR1.5% ESA-tst10³)
50mm depth, asphalt paving wearing course, 20mm mix.
50mm depth, asphalt paving base course, 20mm mix.
280mm depth, cement treated base category 1 (Refer Supp. Spec. No. 4)
 - SOIL AGGREGATE PAVEMENT** (Based on CBR 1.5 & ESA-tst10³)
75mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate base course
200mm depth, soil aggregate sub-base course
400mm depth, Selected gravel fill (Refer Supp. Spec. No. 5)
 - SOIL AGGREGATE PAVEMENT** (Based on CBR 1.5 & ESA-tst10³)
75mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate base course
125mm depth, soil aggregate sub-base course
300mm depth, Selected gravel fill (Refer to Supp. Spec. No. 5)
 - SOIL AGGREGATE PAVEMENT**
50mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate base course.
125mm depth, soil aggregate sub-base course.
 - OVERLAY** (Corrector Course depth varies)
75mm depth, asphaltic paving wearing course, 20mm mix.
Depth varies, asphaltic paving corrector course, 20mm mix.
 - OVERLAY** (Corrector Course depth varies)
50mm depth, asphaltic paving wearing course, 20mm mix.
Depth varies, asphaltic paving corrector course, 20mm mix.
- MEDIAN TREATMENTS**
- CONCRETE MEDIAN** (Exposed Aggregate, Refer Supp. Spec. No. 6)
75mm min. depth, concrete slab (20 MPa/20mm Exposed Aggregate)
30mm depth, bedding sand (Refer Supp. Spec. No. 6)
150mm min. depth, selected gravel fill (Refer Supp. Spec. No. 5)
 - GRASSED MEDIAN**
Turf
100mm depth, basal
150mm min. depth, selected gravel fill (Refer Supp. Spec. No. 5)

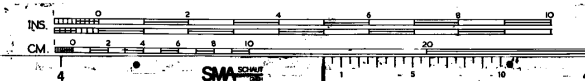
JFOP Consulting Engineers civil and structural engineers

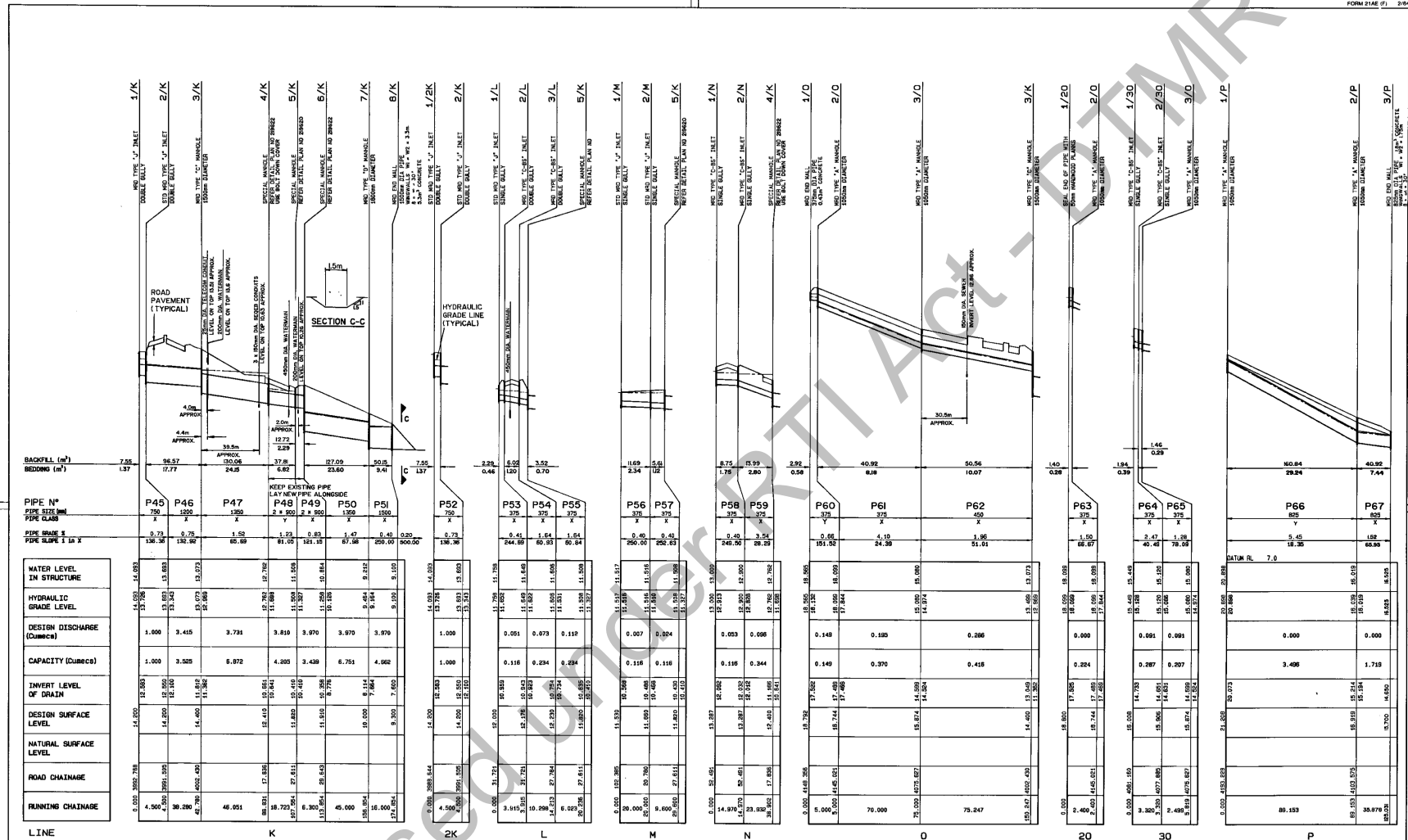
J F O P Consulting Engineers Pty Ltd
 4/111 Commercial Square, Brisbane QLD 4000
 4/111 Commercial Square, Brisbane QLD 4000
 4/111 Commercial Square, Brisbane QLD 4000
 4/111 Commercial Square, Brisbane QLD 4000

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Revisions	Issue No.	Microfilm	Associated Job No.	Dimensions of sheets exceed those shown otherwise	FULL SIZE B1	SURVEY OR OTHER INFORMATION	THROUGH CHANGING FROM	MAIN ROADS DEPARTMENT LOGAN CITY COUNCIL		PAVEMENT CONSTRUCTION PLAN				JOB No. 70/204/LT15 235/8/434
			Accessory Plan Nos.	Convert sizes in millimetres	SCALE	FOR SCHEME DOCUMENTATION REDUCE 20 : 1 Print on A3 size paper	Key	PDG CHGE	BRISBANE - BEENLEIGH ROAD	7540	to	8260	Checked	PLAN No. 219615
Original Issue	2/2/84			0 5 10 20 30 50m	1:500		PERMANENT REFERENCE POINTS	Accepting PMP Name	Date to Start of Work	Dist. Start to End of PDG	Dist. from End to Following PMP	Examined	RECOMMENDED	APPROVED



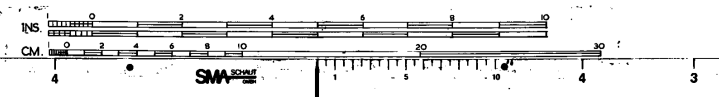


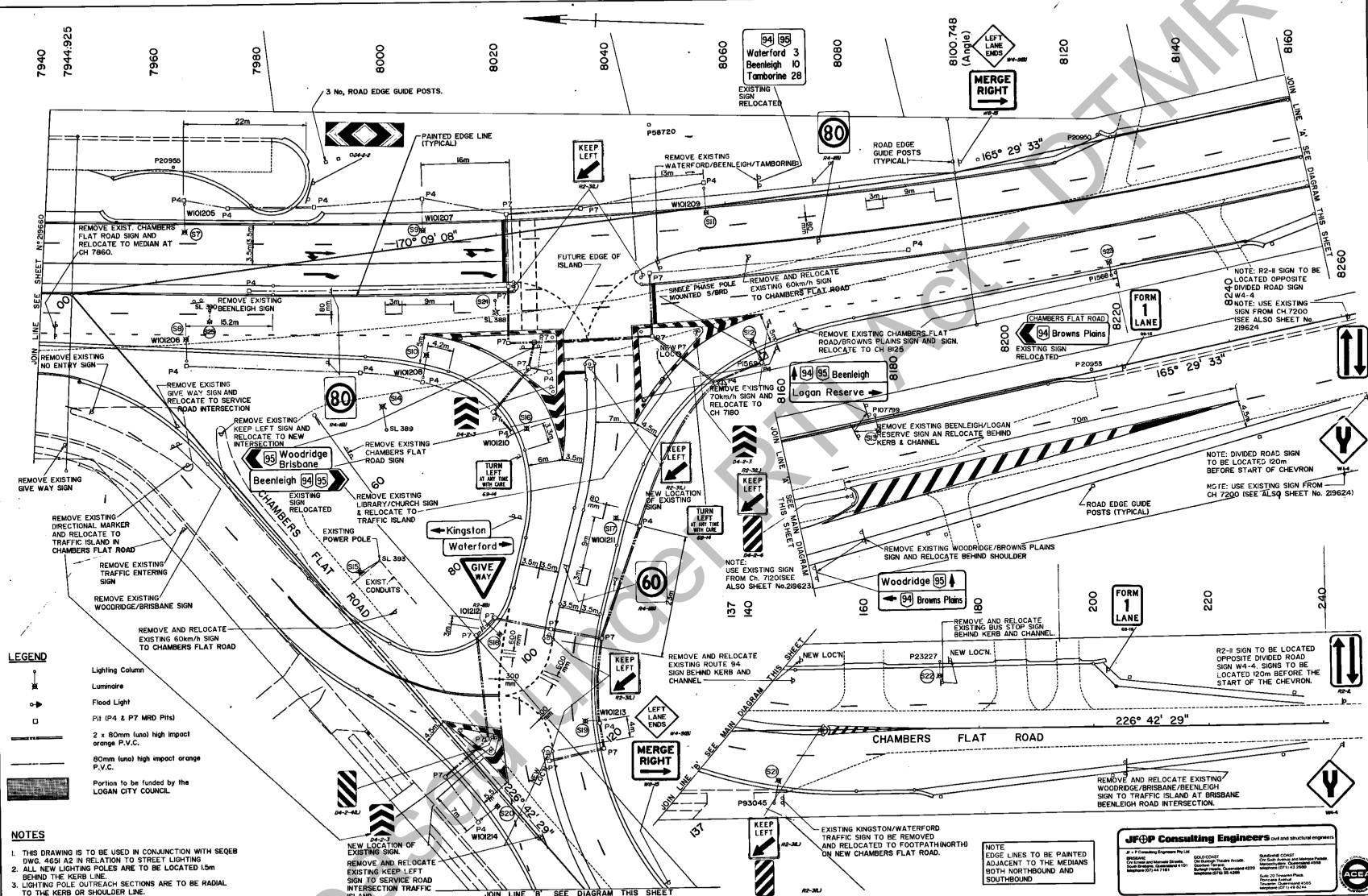
LINE	PIPE N°	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE S	PIPE SLOPE 1 IN X	WATER LEVEL IN STRUCTURE	HYDRAULIC GRADE LEVEL	DESIGN DISCHARGE (Cumecs)	CAPACITY (Cumecs)	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	NATURAL SURFACE LEVEL	ROAD CHAINAGE	RUNNING CHAINAGE
K	P45	750	X	0.73	136.36	14.020	14.020	1.000	1.000	12.200	14.200	14.200	4.300	4.300
	P46	1500	X	0.75	134.98	14.200	14.200	3.415	3.265	14.200	14.200	14.200	38.230	38.230
	P47	1500	X	1.52	85.69	14.600	14.600	3.721	5.872	14.600	14.600	14.600	46.951	46.951
	P48	1500	X	1.23	81.00	15.000	15.000	3.819	4.203	15.000	15.000	15.000	88.031	88.031
	P49	1500	X	0.83	121.18	15.000	15.000	3.970	3.438	15.000	15.000	15.000	102.864	102.864
2K	P50	1500	X	1.47	87.58	14.000	14.000	3.970	6.751	14.000	14.000	14.000	188.854	188.854
	P51	1500	X	0.40	250.00	14.000	14.000	3.970	4.562	14.000	14.000	14.000	178.604	178.604
L	P52	750	X	0.73	136.36	14.000	14.000	1.000	1.000	14.000	14.000	14.000	4.500	4.500
	P53	750	X	0.41	244.89	14.000	14.000	0.051	0.116	14.000	14.000	14.000	3.916	3.916
	P54	750	X	0.75	137.27	14.000	14.000	0.073	0.234	14.000	14.000	14.000	10.282	10.282
M	P55	750	X	0.40	250.00	14.000	14.000	0.119	0.284	14.000	14.000	14.000	6.023	6.023
	P56	750	X	0.40	250.00	14.000	14.000	0.007	0.116	14.000	14.000	14.000	20.000	20.000
N	P57	750	X	0.40	250.00	14.000	14.000	0.004	0.116	14.000	14.000	14.000	20.000	20.000
	P58	750	X	0.40	249.50	14.000	14.000	0.003	0.116	14.000	14.000	14.000	14.970	14.970
O	P59	750	X	0.35	282.32	14.000	14.000	0.006	0.344	14.000	14.000	14.000	28.902	28.902
	P60	750	X	0.56	161.02	14.000	14.000	0.148	0.148	14.000	14.000	14.000	5.000	5.000
20	P61	450	X	4.10	24.38	15.000	15.000	0.180	0.370	15.000	15.000	15.000	70.000	70.000
	P62	450	X	1.96	51.01	15.000	15.000	0.266	0.418	15.000	15.000	15.000	70.000	70.000
30	P63	450	X	1.50	66.67	15.000	15.000	0.000	0.224	15.000	15.000	15.000	2.400	2.400
	P64	450	X	3.47	40.48	15.000	15.000	0.091	0.287	15.000	15.000	15.000	3.000	3.000
P	P65	450	X	1.28	78.04	15.000	15.000	0.091	0.207	15.000	15.000	15.000	80.000	80.000
	P66	450	X	5.45	18.36	15.000	15.000	0.000	3.486	15.000	15.000	15.000	80.000	80.000
2/P	P67	450	X	1.82	68.86	15.000	15.000	0.000	1.718	15.000	15.000	15.000	35.878	35.878
3/P	P68	450	X	68.86	18.36	15.000	15.000	0.000	4.823	15.000	15.000	15.000	80.000	80.000

NOTES
 1. ALL END WALLS ARE TO HAVE A TYPE 3 REINFORCED CONCRETE APPROX AND CUT OFF WALL.
 2. END WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH MRD STD. DRAWING NO. 126.
 3. BEDDING AND BACKFILL VOLUMES HAVE BEEN CALCULATED FROM MRD STD. DRAWING NO. 124, "TRENCH METHOD".

JFOP Consulting Engineers civil and structural engineers
 1/1 Commercial Square, Brisbane QLD 4000
 2/100 St. George's Street, Brisbane QLD 4000
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Reasons	Approved	Associated Job No.	Dimensions in metres except where shown otherwise	SCALE	SURVEY OR OTHER INFORMATION	PROPOSED CHANGE FROM	MAIN ROADS DEPARTMENT	LOGAN CITY COUNCIL	DRAINAGE PROFILES
Original Issue	7/23/97	11-534	Current scale as indicated	VERT FULL SIZE 1000 HORIZ REDUCE 25:1 Print on A3 size paper			BRISBANE - BEENLEIGH ROAD		LINES K, 2K, L, M, N, O, 20, 30, P
Original Issue	7/23/97	11-534	Current scale as indicated	VERT FULL SIZE 1000 HORIZ REDUCE 25:1 Print on A3 size paper			BRISBANE - BEENLEIGH ROAD		LINES K, 2K, L, M, N, O, 20, 30, P





- LEGEND**
- Lighting Column
 - Luminaire
 - Flood Light
 - Pit (P4 & P7 MRD Pits)
 - 2 x 80mm (uncol) high impact orange P.V.C.
 - 80mm (uncol) high impact orange P.V.C.
 - Portion to be funded by the LOGAN CITY COUNCIL.

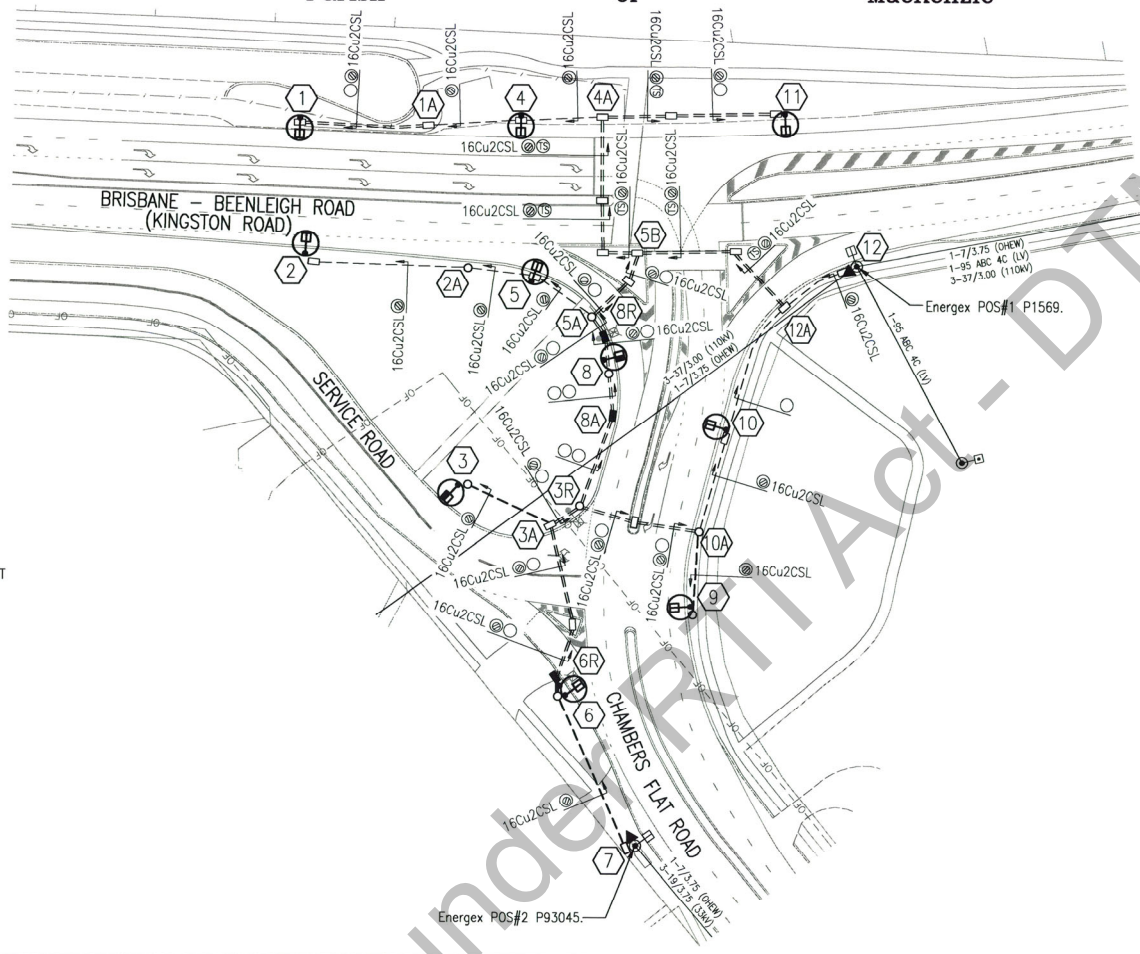
- NOTES**
- THIS DRAWING IS TO BE USED IN CONJUNCTION WITH SEE08 DWG. 4651 A2 IN RELATION TO STREET LIGHTING
 - ALL NEW LIGHTING POLES ARE TO BE LOCATED 15m BEHIND THE KERB LINE.
 - LIGHTING POLE OUTREACH SECTIONS ARE TO BE RADIAL TO THE KERB OR SHOULDER LINE.

REVISIONS		ASSOCIATED JOB NO.			DIMENSIONS IN METRES UNLESS WHERE SHOWN OTHERWISE		FULL SIZE		SURVEY OR OTHER INFORMATION				MAIN ROADS DEPARTMENT LOGAN CITY COUNCIL				LANE MARKING AND TRAFFIC CONTROL DEVICES			JOB NO.		
																					70/204/LT5 235/8/434	

Parish of MacKenzie



- LEGEND** UNLESS OTHERWISE STATED
- NEW CABLE U/G ROUTE
 - - - EXISTING CABLE U/G ROUTE
 - EXISTING O/H CONDUCTORS
 - LV/SL POLE / JUNCTION BOX
 - ⊙ LV/HV POLE
 - ⊙ PROPOSED CABLE IN CONDUIT
 - ⊙ EXISTING TMR TRAFFIC SIGNAL CABLE IN CONDUIT
 - SPARE CONDUIT
 - ▭ 100W HPS LUMINAIRE
 - ▭ 250W HPS LUMINAIRE
 - ▭ 400W HPS LUMINAIRE
 - ▶ LV U/G TERMINATION
 - NEW/MODIFICATION
 - ⊗ TO BE REMOVED
 - ⊙ STATION NUMBER
 - EXISTING TMR TRAFFIC SIGNAL/STREET LIGHTING PIT
 - CIRCULAR PIT
 - KB BACK OF KERB



LIGHTING DESIGN COMPLIANCE CERTIFICATE

THIS LIGHTING DESIGN COMPLIES GENERALLY WITH THE NOMINATED CATEGORIES OF AS1158.1.1:2005 & AS1158.1.2:2010

NAME: CHRIS WOJCIK	TITLE: CADET TECHNOLOGIST
LIGHTING CATEGORY: V3	

NEW LUMINAIRE DETAILS:

MANUFACTURE & MODEL	SYLVANIA ROADSTER
WATTAGE & TYPE	S100C, S250C, S400C
I-TABLE	98262.CIE, 98100.CIE, 98382.CIE
INITIAL LUMENS	10000, 28000, 48000

COMPUTER DESIGN DETAILS:

AS1158.2.2005 COMPLIANT S/WARE	PERFECT LITE
SOURCE OF PROGRAM	TREVOR CASWELL SOFTWARE
MAINTENANCE FACTOR	0.77
ROAD REFLECTION CHAR	CIE-R2

FOR LIGHTING ARRANGEMENT, SPACINGS, MOUNTING HEIGHTS, OUTREACH DETAILS AND SIGNIFICANT ROAD FEATURES, REFER TO DRAWINGS.

- NOTES:**
- Posted speed limit on Brisbane-Beenleigh Road (Kingstone Road) is 70km/h.
 - Posted speed limit on Chambers Flat Road is 60km/h.
 - Survey information utilised for this design is obtained from Orthorectified Photogrammetry. Therefore the Contractor shall confirm all dimensions and setout on site prior to commencing works. Any discrepancies shall be referred to the site Superintendent for direction.
 - Outreach arms shall be at right angles to the carriageway unless noted otherwise.
 - Variations to pole locations considered necessary prior to installation or as otherwise determined on site, shall be as approved by the Superintendent.
 - Existing road lighting stations that require luminaire replacement shall be re-labelled in accordance with Queensland Public Lighting Construction Manual.

LOCATION	STN No	SITE ID (POLE No)	POLE or COMPONENTS						LUMINAIRE						OUTREACH BRACKET				MOUNT HEIGHT (m)	REMARKS										
			COMP ID	EX (m)	REC (m)	ERECT (m)	SLM/IN	ALIGN (m)	COMP ID	EX	RECOVER	ERECT	SLM/IN	EX (m)	REC (m)	ERECT (m)	SLM/IN													
BRISBANE - BEENLEIGH ROAD (KINGSTONE ROAD) AND CHAMBERS FLAT ROAD	1	P101205	P01	8.5SBM				SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0				3.0	3.0	3.0	SLM5750	10.5	EXISTING POLE AND OUTREACH TO REMAIN. REPLACE EXISTING LUMINAIRE.				
	2	P101206	P01	8.5SBM	8.5SBM	8.5SBM		SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0	3.0	3.0					3.0	3.0	3.0	SLM5750	10.5	REPLACE EXISTING POLE, OUTREACH AND LUMINAIRE.	
	3R	P101212	P01	8.5SBM	8.5SBM						SL1	S250CM3	S250CM3	MRD														10.5	REMOVE EXISTING POLE, OUTREACH AND LUMINAIRE.	
	3	P1305963	P01				10.0BPM	SLM5641	3.8KB	SL1				S400CM2	LCC	SLM21579													12.0	INSTALL NEW POLE, OUTREACH AND LUMINAIRE.
	4	P101207	P01	8.5SBM	8.5SBM	8.5SBM		SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0	3.0	3.0										10.5	REPLACE EXISTING POLE, OUTREACH AND LUMINAIRE.
	5	P101208	P01	8.5SBM	8.5SBM	8.5SBM		SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0	3.0	3.0										10.5	REPLACE EXISTING POLE, OUTREACH AND LUMINAIRE.
	6R	P101214	P01	7.0SBM	7.0SBM					SL1	S250CM3	S250CM3	MRD																9.0	REMOVE EXISTING POLE, OUTREACH AND LUMINAIRE.
	6	P1305964	P01				8.5SBM	SLM13215	1.2KB	SL1				S250CM2	LCC	SLM21576													9.0	INSTALL NEW POLE, OUTREACH AND LUMINAIRE.
	7	P93045	P01	WOOD						SL1	S250CM2																		9.0	EXISTING POLE, OUTREACH AND LUMINAIRE TO REMAIN.
	8R	P101210	P01	8.5SBM	8.5SBM					SL1	S250CM3	S250CM3	MRD																10.5	REMOVE EXISTING POLE, OUTREACH AND LUMINAIRE.
	8	P1305965	P01				10.0BPM	SLM5641	3.8KB	SL1				S400CM2	MRD	SLM21579													12.0	INSTALL NEW POLE, OUTREACH AND LUMINAIRE.
	9	P101213	P01	8.5SBM	8.5SBM	8.5SBM		SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	LCC	SLM21578	3.0	3.0	3.0											10.5
10	P101211	P01	8.5SBM				SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0													10.5	EXISTING POLE AND OUTREACH TO REMAIN. REPLACE EXISTING LUMINAIRE.
11	P101209	P01	8.5SBM	8.5SBM	8.5SBM		SLM5639		SL1	S250CM3	S250CM3	MRD	S250CM2	MRD	SLM21578	3.0	3.0	3.0											10.5	REPLACE EXISTING POLE, OUTREACH AND LUMINAIRE.
12	P1569	P01	WOOD						SL1	S250CM2																			EXISTING POLE TO REMAIN	

ENERGEX PROJECT NUMBER: S2350171
PROJECT SUBURB: LOGANLEA

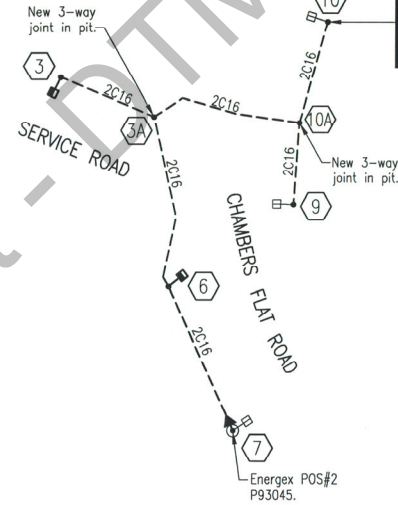
Associated Job Nos Datum: GDA Horizontal Grid: MGA94 Zone64 Height Origin: AHD Derived Survey Books:	Scales 0 5 10 15 20m	LOGAN CITY BRISBANE-BEENLEIGH ROAD (KINGSTONE ROAD) INTERSECTION WITH CHAMBERS FLAT ROAD Reference Points Preceding RP: 204/11 Dist. to start of job (km): 1.17 From start to end of job: 0.12 From end to following RP: 0.99 Following RP: 204/13	RATE 2 ROAD LIGHTING SHEET 1 OF 3	Site Number: S502 UBD Map 262 E2	Queensland Government Job No: R10/R001/486 Contract No: SCHD-3149 Drawing No: 633692 IC Series Number: RL1 of 3 MRT Detail (02/14)
Final Issue: N/R 04238 15.07.2014 MF1144 As Constructed: K O'Brien 04238 15.07.2014 Issued For Construction:	Auxiliary Drg Nos: 633693, 633694	Drawn: C.WOJCIK Designed: C.WOJCIK	ENGINEERING CERTIFICATION (RPEC) ENG. AREA: ELECTRICAL NAME: A.CAUSLEY SIGNATURE: [Signature] NO.: 08751 DATE: 5.02.2014	Revisions/Descriptions: Certification, Date, Microfiled	CAD FILES: G:\NERO\ROAD PROJECTS\Elements\30\R10_R001_486\FINAL\Site502 Kingstone & Chambers Flat Rd\633692_C.dwg

1 x SINGLE PHASE
START 8.76A, RUN 6.86A

COMMISSIONING PLAN:
LV SWITCHING

BRISBANE - BEENLEIGH ROAD
(KINGSTON ROAD)

CALCULATED $V_0 \approx 4.89V$
MAX ALLOWABLE $V_0 = 11.5V$
CALCULATED $Z_0 \approx 0.82\Omega$
MAXIMUM ALLOWABLE $Z_0 @ 0.4s$
DISCONNECT (20A FUSE) = 2.09\Omega



CALCULATED $V_0 \approx 4.43V$
MAX ALLOWABLE $V_0 = 11.5V$
CALCULATED $Z_0 \approx 1.82\Omega$
MAXIMUM ALLOWABLE $Z_0 @ 0.4s$
DISCONNECT (20A FUSE) = 2.09\Omega

BRISBANE - BEENLEIGH ROAD
(KINGSTON ROAD)

PROPOSED SCHEMATIC 1L1

1 x SINGLE PHASE
START 17.27A, RUN 13.53A

COMMISSIONING PLAN:
LV SWITCHING

- LEGEND UNLESS OTHERWISE STATED
- NEW CABLE U/G ROUTE
 - LV/SL POLE / JUNCTION BOX
 - LV/HV POLE
 - 250W HPS LUMINAIRE
 - 250W HPS LUMINAIRE
 - 400W HPS LUMINAIRE
 - ▽ LV UG TERMINATION
 - ① STATION NUMBER

CABLE SCHEDULE - 1L1 (NEW)

LOCATION	STATIONS FROM TO	VOLTS	EX.	REC.	IN	CABLE SIZE/TYPE	MODEL I.D.	TOTAL LENGTH (m)	REMARKS
BRISBANE - BEENLEIGH ROAD (KINGSTON ROAD)	12 - 5B	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	47	INSTALL NEW
	5B - 4A	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	35	INSTALL NEW
	4A - 11	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	34	INSTALL NEW
	4A - 4	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	17	INSTALL NEW
	4 - 1	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	42	INSTALL NEW
	5B - 5A	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	19	INSTALL NEW
	5A - 8	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	10	INSTALL NEW
	5A - 5	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	14	INSTALL NEW
VARIOUS	5 - 2	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	44	INSTALL NEW
		SL			X	4mm ² 2C PVC/PVC	LVC24PVPV	18	INSTALL NEW, PIT TO POLE
TOTALS:								280	INSTALL NEW

CABLE SCHEDULE - 2L1 (NEW)

LOCATION	STATIONS FROM TO	VOLTS	EX.	REC.	IN	CABLE SIZE/TYPE	MODEL I.D.	TOTAL LENGTH (m)	REMARKS
CHAMBERS FLAT ROAD	7 - 6	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	46	INSTALL NEW
	6 - 3A	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	33	INSTALL NEW
	3A - 3	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	20	INSTALL NEW
	3A - 10A	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	38	INSTALL NEW
	10A - 9	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	18	INSTALL NEW
	10A - 10	SL			X	16mm ² 2C PVC/PVC	LVC216PVPV	20	INSTALL NEW
VARIOUS		SL			X	4mm ² 2C PVC/PVC	LVC24PVPV	12	INSTALL NEW, PIT TO POLE
TOTALS:								187	INSTALL NEW

RATE 2 OVERHEAD WORK SCHEDULE

LOCATION	STN No.	SITE ID (POLE No.)	POLES								CONSTRUCTIONS					REMARKS			
			Z°	NO WIND KN	WIND KN	EXISTING	RECOVER	ERECT	SINK	FOOT	STAYING	ALIGN	EXISTING	RECOVER	ERECT		KBS (mm)	EARTH	
CHAMBERS FLAT ROAD	7	P93045				WOOD												EXISTING TO REMAIN	
																		EXISTING TO REMAIN	
																			EXISTING TO REMAIN
BRISBANE - BEENLEIGH ROAD (KINGSTON ROAD)	12	P1569				WOOD												EXISTING TO REMAIN	
																		EXISTING TO REMAIN	
																			REMOVE EXISTING RATE 3 SWITCHBOARD
																			INSTALL NEW

ENERGEX PROJECT NUMBER: S2350171
PROJECT SUBURB: LOGANLEA

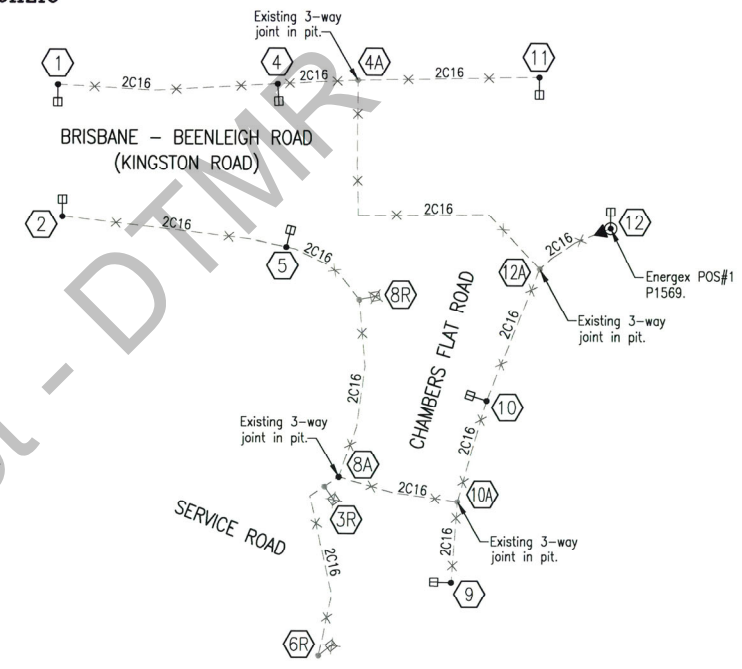
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Revisions/Descriptions	Ref	REQ	Certification	Date	Microfiled	Associated Job Nos	SURVEY DATA	Scales	LOGAN CITY	Drawn	RATE 2 ROAD LIGHTING SHEET 2 OF 3				UBD Map 262 E2				
							MGA94 Zone64	0 5 10 15 20m	BRISBANE-BEENLEIGH ROAD (KINGSTON ROAD)	C.WOJICK					Job No. 240/204/6				
							AHD Derived	Dimensions shown in metres except where shown otherwise	INTERSECTION WITH CHAMBERS FLAT ROAD	C.WOJICK					Contract No. SCHD-3149				
							Survey Books		Reference Points	For scheme approval status refer	ENGINEERING CERTIFICATION (RPEQ)				Drawing No. 633693 A				
									Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Series Number 2 of 3
									204/11	1.17	0.12	0.99	204/13	Electrical	Andrew Causley	N/R	08751	5/2/16	MRT_Detail (01/13)

Parish of MacKenzie

EQUIPMENT SCHEDULE

LOCATION	STN No.	PIT No.	EX	REC	IN	SIZE & DESCRIPTION	IIN	COMP I.D.	PLANT No.	MODEL No.	QTY	REMARKS
BRISBANE - BEENLEIGH ROAD (KINGSTON ROAD) AND CHAMBERS FLAT ROAD	1	-	X	X	X	SL J/BOX (FUSED) SINGLE Ø					1	REPLACE EXISTING JOINT
			X	X	X	TYPE 4 PIT LID					1	REPLACE EXISTING PIT LID
	1A	U1305969	X	X	X	TYPE 4 PIT LID					1	REPLACE EXISTING PIT LID
			X	X		TYPE 4 PIT					-	REMOVE EXISTING PIT
	2A	-			X	600DIA CIRC PIT					1	INSTALL NEW PIT
	2	-	X	X	X	SL J/BOX (UNFUSED) SINGLE Ø					1	REPLACE EXISTING JOINT
	3A	-	X	X	X	SL J/BOX (UNFUSED) SINGLE Ø					1	REPLACE EXISTING JOINT
			X	X		TYPE 4 PIT SL J/BOX (UNFUSED) SINGLE Ø					-	REMOVE EXISTING PIT AND JOINT
	3R	-			X	600DIA CIRC PIT					1	INSTALL NEW PIT
	3	-			X	600DIA CIRC PIT SL J/BOX (UNFUSED) SINGLE Ø					1	INSTALL NEW PIT
	4A	-	X	X	X	SL J/BOX (UNFUSED) SINGLE Ø					1	REPLACE EXISTING JOINT
	4	-	X	X	X	SL J/BOX (FUSED) SINGLE Ø					1	REPLACE EXISTING JOINT
			X	X		TYPE 4 PIT LID					1	REPLACE EXISTING PIT LID
			X	X		TYPE 4 PIT					-	REMOVE EXISTING PIT
	5A	-			X	600DIA CIRC PIT SL J/BOX (UNFUSED) SINGLE Ø					1	INSTALL NEW PIT AND JOINT
	5B	-			X	SL J/BOX (UNFUSED) SINGLE Ø					1	INSTALL NEW JOINT
	5	-	X	X	X	TYPE 4 PIT SL J/BOX (FUSED) SINGLE Ø					-	REPLACE EXISTING PIT AND JOINT
	6R	-	X	X		TYPE 4 PIT SL J/BOX (FUSED) SINGLE Ø					-	REMOVE EXISTING PIT. REFER NOTE 1.
	6	-			X	600DIA CIRC PIT SL J/BOX (FUSED) SINGLE Ø					1	INSTALL NEW PIT AND JOINT
	7	-			X	TYPE 4					1	INSTALL NEW PIT
8R	-	X	X		TYPE 4 PIT SL J/BOX (FUSED) SINGLE Ø					-	REMOVE EXISTING PIT AND JOINT. REFER NOTE 2.	
8	-			X	600DIA CIRC PIT SL J/BOX (UNFUSED) SINGLE Ø					1	INSTALL NEW PIT AND JOINT	
8A	-	X	X		TYPE 4 PIT					-	REMOVE EXISTING PIT	
		X	X		TYPE 4 PIT SL J/BOX (FUSED) SINGLE Ø					-	REMOVE EXISTING PIT AND JOINT	
9	-			X	600DIA CIRC PIT SL J/BOX (FUSED) SINGLE Ø					1	INSTALL NEW PIT AND JOINT	
10	-	X	X	X	SL J/BOX (FUSED) SINGLE Ø					1	REPLACE EXISTING JOINT	
		X	X		TYPE 7 PIT SL J/BOX (UNFUSED) SINGLE Ø					-	REMOVE EXISTING PIT AND JOINT	
10A	-			X	600DIA CIRC PIT SL J/BOX (UNFUSED) SINGLE Ø					1	INSTALL NEW PIT AND JOINT	
		X	X	X	TYPE 4 PIT LID					1	REPLACE EXISTING PIT LID	
		X	X	X	SL J/BOX (FUSED) SINGLE Ø					1	REPLACE LIGHTING JOINT	
11	-			X	TYPE 4 PIT LID					1	REPLACE EXISTING PIT LID	
12A	-	X	X		SL J/BOX (UNFUSED) SINGLE Ø					-	REMOVE EXISTING JOINT	



EXISTING SCHEMATIC 1L1
1 x SINGLE PHASE
START 15.70A, RUN 12.30A
**COMMISSIONING PLAN:
LV SWITCHING**

UNDERGROUND CIVIL WORKS SCHEDULE

LOCATION	STATIONS FROM TO	TRENCH (M)			CONDUITS		BENDS			BACK FILL		REINSTATEMENT			REMARKS
		LENGTH (m)	WIDTH (m)	DEPTH (m)	MODEL I.D.	SIZE TYPE	MODEL No.	MODEL No.	∠	No.	IIN	TYPE	MODEL I.D.	TYPE	
BRISBANE - BEENLEIGH ROAD (KINGSTON ROAD) AND CHAMBERS FLAT ROAD	3A - 3	16	0.3	0.8	UGSC70	80HD	1	17				EXSOIL	EXIST		NEW LIGHTING DUCTING
	6R - 6	2	0.6	1.0	UGSC73	100HD	2	3				EXSOIL	EXIST		NEW LIGHTING DUCTING. REFER NOTE 1.
	6 - 7	30	0.3	0.8	UGSC70	80HD	1	31				EXSOIL	EXIST		NEW LIGHTING DUCTING
	8 - 5A	2	0.6	1.0	UGSC73	80HD	2	1				EXSOIL	EXIST		NEW LIGHTING DUCTING. REFER NOTE 2.
	10A - 9	14	0.3	0.8	UGSC70	80HD	1	15				EXSOIL	EXIST		REPLACE EXISTING DUCTING
TOTALS:		64					67								

- NOTES:**
- Sleeve existing conduits between originating pit at station 6R to new conduits destined for pit at Station 6.
 - After removing existing pit at Station 8R, sleeve existing conduits to maintain connectivity between Stations 8 and 5A.

- LEGEND UNLESS OTHERWISE STATED**
- EXISTING CABLE U/G ROUTE
 - LV/SL POLE / JUNCTION BOX
 - ⊙ LV/HV POLE
 - ⊠ 250W HPS LUMINAIRE
 - ▶ LV UG TERMINATION
 - ✕ TO BE REMOVED
 - ① STATION NUMBER

CABLE SCHEDULE - 1L1 (EXISTING)

LOCATION	STATIONS FROM TO	VOLTS	EX.	REC.	IN	CABLE SIZE/TYPE	MODEL I.D.	TOTAL LENGTH (m)	REMARKS	
BRISBANE - BEENLEIGH ROAD (KINGSTON ROAD) AND CHAMBERS FLAT ROAD	12 - 12A	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	16	REMOVE EXISTING CABLE	
	12A - 4A	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	67	REMOVE EXISTING CABLE	
	4A - 11	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	34	REMOVE EXISTING CABLE	
	4A - 4	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	17	REMOVE EXISTING CABLE	
	4 - 1	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	42	REMOVE EXISTING CABLE	
	12A - 10	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	30	REMOVE EXISTING CABLE	
	10 - 10A	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	20	REMOVE EXISTING CABLE	
	10A - 9	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	18	REMOVE EXISTING CABLE	
	10A - 8A	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	26	REMOVE EXISTING CABLE	
	8A - 3R	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	5	REMOVE EXISTING CABLE	
	3R - 6R	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	38	REMOVE EXISTING CABLE	
	8A - 8R	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	34	REMOVE EXISTING CABLE	
	8R - 5	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	18	REMOVE EXISTING CABLE	
	5 - 2	SL	X	X		16mm ² 2C PVC/PVC	LVC216PVPV	44	REMOVE EXISTING CABLE	
	TOTALS:								409	REMOVE EXISTING CABLE

ENERGEX PROJECT NUMBER: S2350171
PROJECT SUBURB: LOGANLEA

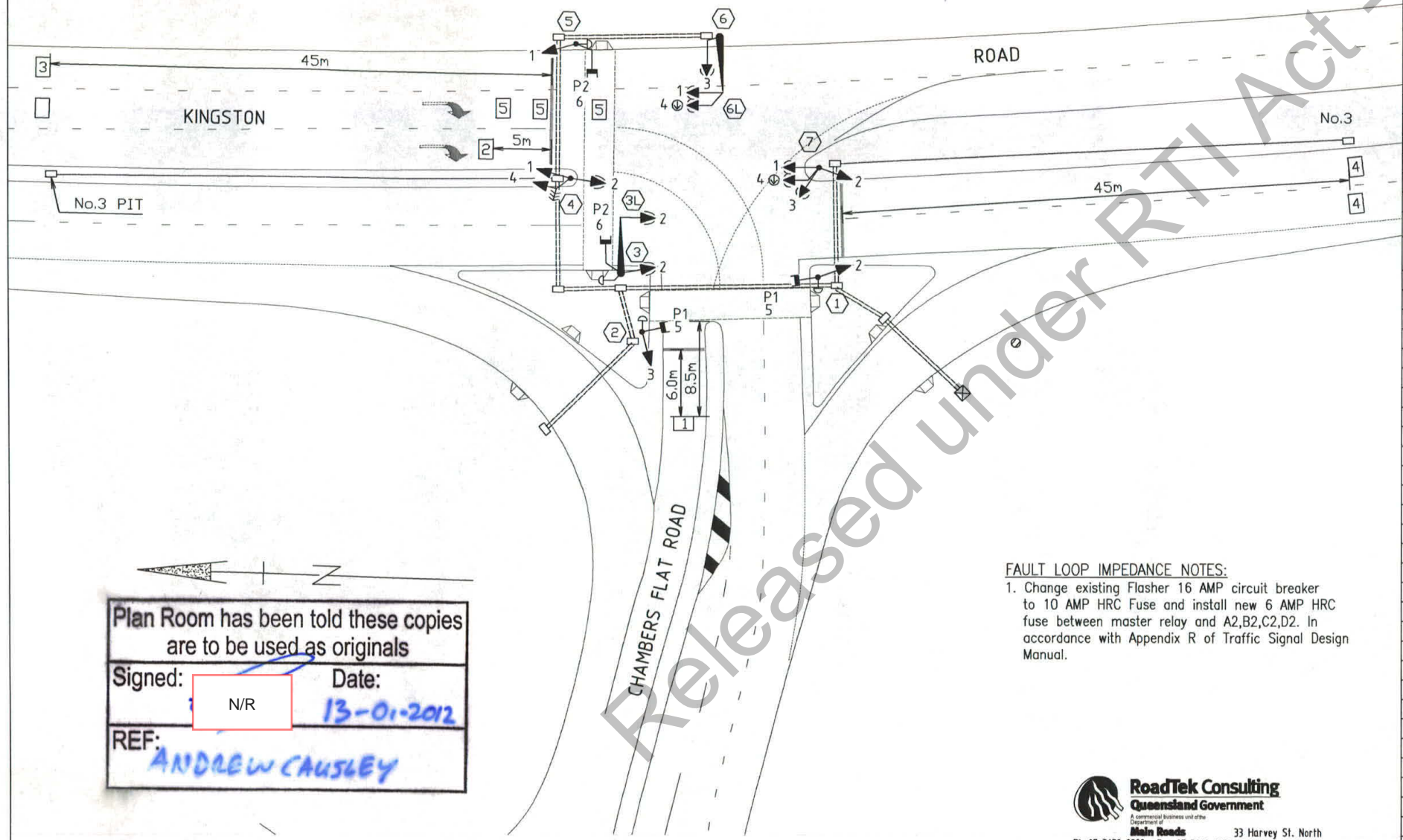
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PHASE DIAGRAMS	A Phase	B Phase	C Phase	D Phase	E Phase	F Phase
Signal Groups	1 2 5	3 6	1 4			
Assoc Detectors	3 4 13	1 14	3 2 5			
Call	X X PED1	X PED2	X PRES			
Extend	X X	X	X X X			
Increment	X X					
Special Conditions						

NOTE: ALTERNATE Ø SEQUENCE ACB

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Plan Room has been told these copies are to be used as originals
 Signed: [Signature] Date: 13-01-2012
 REF: ANDREW CAUSLEY

FAULT LOOP IMPEDANCE NOTES:
 1. Change existing Flasher 16 AMP circuit breaker to 10 AMP HRC Fuse and install new 6 AMP HRC fuse between master relay and A2,B2,C2,D2. In accordance with Appendix R of Traffic Signal Design Manual.



CONFLICT TABLE (X indicates conflict)		Signal Group Function	RUN 1 CONNECTIONS		RUN 2 CONNECTIONS		RUN 3 CONNECTIONS	
Signal Groups	Ped Groups		Final Terminals	Connections	Final Terminals	Connections	Final Terminals	Connections
1		A5 RED	1	1	1	1	1	
2	X	A4 YELLOW	2	2	2	2	2	
3	X X	A3 GREEN	3	3	3	3	3	
4	X X							
5		A8 RED	2	4	4	4	4	
6		A7 YELLOW	2	5	5	5	5	
7		A6 GREEN	2	6	6	6	6	
8								
9		A11 RED	3	7	7	7	7	
10	X	A10 YELLOW	3	8	8	8	8	
11	X	A9 GREEN	3	9	9	9	9	
12								
13		A14 RED	4	10	10	10	10	
14		A13 YELLOW	4	11	11	11	11	
15		A12 GREEN	4	12	12	12	12	

VEHICLE CLEARANCE TIMES	
FROM PHASE	ALL RED TIMES (SEC)
A	5
B	4
C	5
D	
E	
F	
G	

PEDESTRIAN CLEARANCE TIMES			
	MIN WALK (SEC)	CLEARANCE 1 (SEC)	CLEARANCE 2 (SEC)
PED 1	6	7	5
PED 2	8	13	4
PED 3			
PED 4			
PED 5			
PED 6			

DETECTORS					
FIELD INPUT	LOOP / P/BUTTON	CONFIGURATION	CABLE	CONTR TERM	LOGIC INPUT
1	Lp1	IND	1pr	P1	1
2	Lp2	IND	1pr	P2	2
3	Lp3	IND	1pr	P3	3
4	Lp4	IND	1pr	P4	4
5	Lp5	PRES	1pr	P5	5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13	Pb1	STD		E5	13
14	Pb2	STD		E6	14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
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32					32

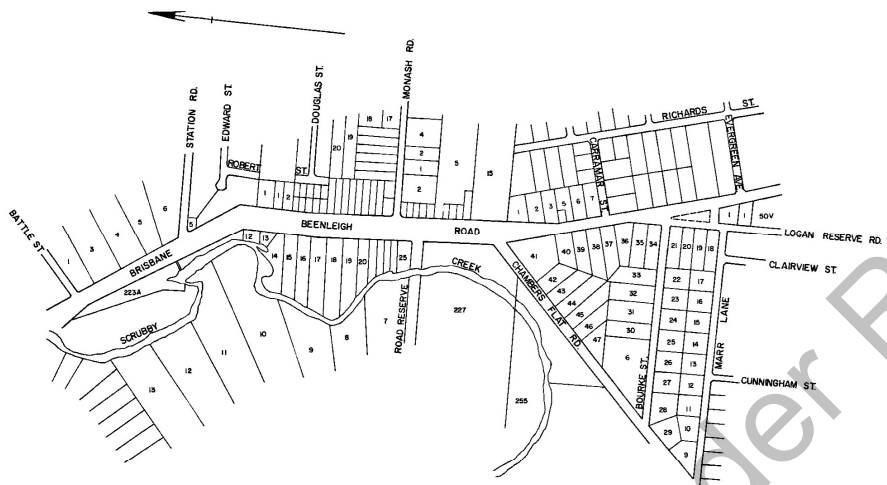
CONTROLLER TERMINALS	Signal Group Function	Final Terminals	Connections	Final Terminals	Connections	Final Terminals	Connections
A5	RED	1	1	1	1	1	1
A4	YELLOW	1	2	2	2	2	2
A3	GREEN	1	3	3	3	3	3
A8	RED	2	4	4	4	4	4
A7	YELLOW	2	5	5	5	5	5
A6	GREEN	2	6	6	6	6	6
A11	RED	3	7	7	7	7	7
A10	YELLOW	3	8	8	8	8	8
A9	GREEN	3	9	9	9	9	9
A14	RED	4	10	10	10	10	10
A13	YELLOW	4	11	11	11	11	11
A12	GREEN	4	12	12	12	12	12
B5	RED DW	5	13	13	13	13	13
B3	GREEN W	5	14	14	14	14	14
B8	RED DW	6	15	15	15	15	15
B6	GREEN W	6	16	16	16	16	16
B11	RED	7					
B10	YELLOW	7					
B9	GREEN	7					
B14	RED	8					
B13	YELLOW	8					
B12	GREEN	8					
C5	RED	9					
C4	YELLOW	9					
C3	GREEN	9					
C8	RED	10					
C7	YELLOW	10					
C6	GREEN	10					
C11	RED	11					
C10	YELLOW	11					
C9	GREEN	11					
C14	RED	12					
C13	YELLOW	12					
C12	GREEN	12					
A2	240V SUPPLY	26	26	26	26	26	26
E5	PED 1 DET	13	24	24	24	24	24
E6	PED 2 DET	14			25	25	
E7	PED 3 DET						
E8	PED 4 DET						
E3	DET COMMON	27	BL	27	BL	BL	BL
A1,B1,C1,D1	NEUTRAL	NL	BK	NL	BK	BK	BK
	SPARE CORES	17-23	25	17-23	25	BL	BL
	CABLE SIZE	29		29	19	19	

NOTES
 1. CLEARANCE TIMES CALCULATED FOR 70km/hr. ON KINGSTON RD & 60km/hr ON CHAMBERS FLAT ROAD.
 2. PAVEMENT MARKINGS & PRAM RAMPS SHOWN ARE INDICATIVE ONLY.
 3. VEHICLE DETECTOR LOOP LAYOUT/LOCATIONS SEE MRD STD DWG 1425.
 4. TRAFFIC SIGNAL SYMBOLS SEE MRD STD DWG 1436 7/97.
 5. ALL LANTERNS TO LED.

Revisions	Drawn	Checked	Certified	Issue Date	Microfiled	Auxiliary Dwg Nos	For Scheme documentation	Full Size	LOGAN CITY	TRAFFIC SIGNAL INSTALLATION	Intersection No.
Q LED UPGRADE AS-CON	AJM	MJS		20/4/06	MFOR.120			A1	BRISBANE - BEENLEIGH ROAD	PHILIPS PSC TYPE QC8-ID CABLE CONNECTIONS PD200 SERIES DETECTOR CARD	M2460
P REV O AS CONSTRUCTED (11/4/06)	AJM	MJS		20/4/06							
O ALL LANTERNS TO L.E.D.	AG	MJS		11/11/05							
N SG3 AT 6 CHANGED TO SECONDARY COWELS	AJM	MJS		11/10/05							
M PED1 & PED2 WERE DET9 & DET10 (20/10/04)	AG	MJS		27/11/04							
L CONTROLLER UPGRADED (20/10/04)	AG	MJS		22/10/04							
K Clearance Times Modified (5/10/04)	AG	MJS		8/10/04							

TABLE OF PSM'S & BM'S

MARK	CHANGE	OFFSET	R.L.
PSM 2623	7031.050	12.825L	14.090
BRASS PLAQUE			
B.M. ON DEAD GUM	7275.331	1.003L	13.693
MSD 4 1/2			
PSM 50090	7377.145	4.188R	13.547
BRASS PLAQUE			
PSM 50089	7955.683	36.50R	13.919



LOCALITY PLAN
SCALE 1:5000 (FULL SCALE)

JFG Consulting Engineers Civil and structural engineers
 2/17 Corning Engineers Pty Ltd
 80/2 COURT, SCARBURY, VIC 3179
 03 9457 1111
 03 9457 1112
 03 9457 1113
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 03 9457 1200

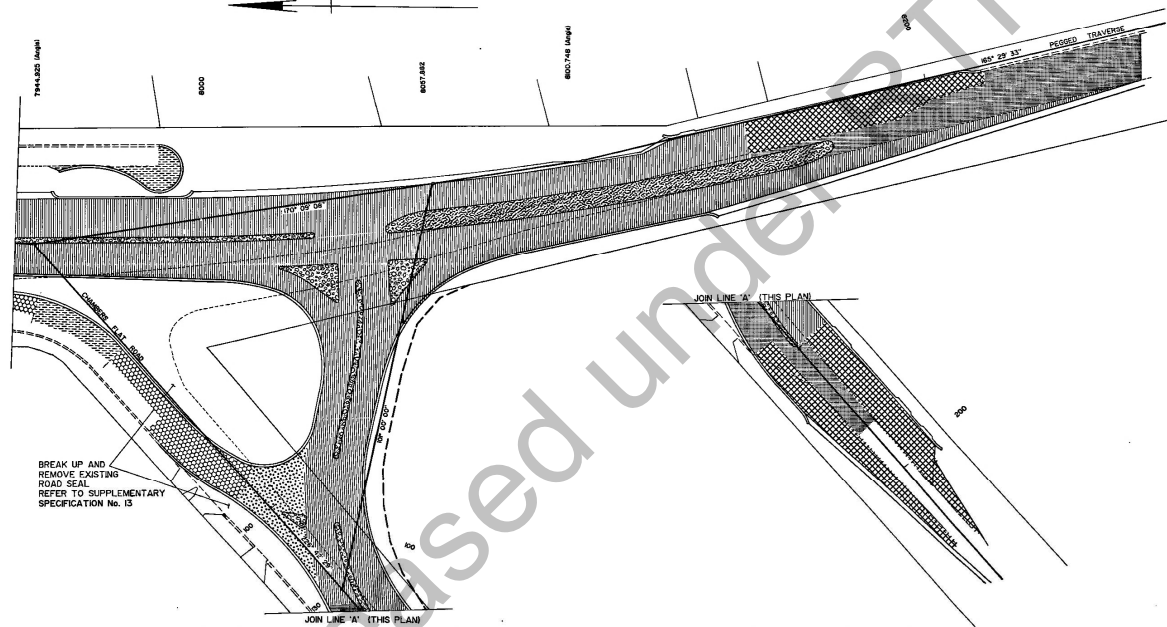
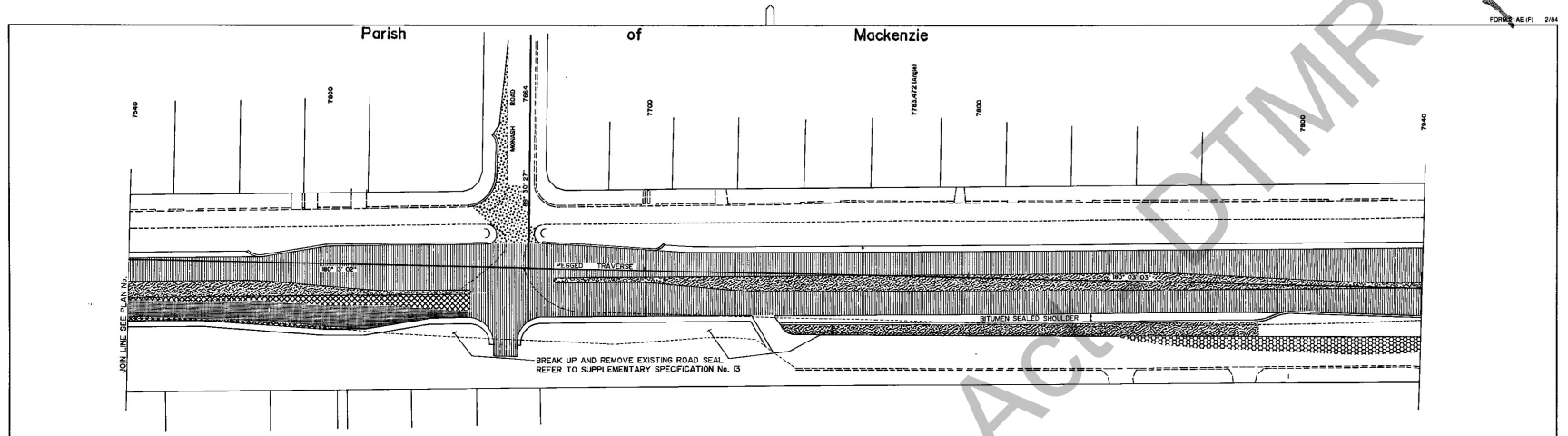


PLAN TITLE	DESCRIPTION	PLAN NO	SHEET NO
PLAN INDEX AND LOCALITY PLAN	CH 7010 - CH 8260	219587	1
TYPE CROSS SECTIONS AND DETAILS	CH 7010 - CH 8260	219588	2
SECTIONS AND DETAILS	CH 7010 - CH 8260	219589	3
EXISTING FEATURES AND SERVICES	CH 7010 - CH 7160	219590	4
EXISTING FEATURES AND SERVICES	CH 7160 - CH 7340	219591	5
EXISTING FEATURES AND SERVICES	CH 7340 - CH 7540	219592	6
EXISTING FEATURES AND SERVICES	CH 7540 - CH 7740	219593	7
EXISTING FEATURES AND SERVICES	CH 7740 - CH 7940	219594	8
EXISTING FEATURES AND SERVICES	CH 7940 - CH 8260	219595	9
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7010 - CH 7160	219596	10
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7160 - CH 7340	219597	11
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7340 - CH 7540	219598	12
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7540 - CH 7740	219599	13
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7740 - CH 7940	219600	14
HORIZONTAL CONTROL SET - OUT AND STORMWATER DRAINAGE LAYOUT	CH 7940 - CH 8260	219601	15
DETAILS OF ISLANDS AND DRAINAGE TABLES FOR CHAMBERS - FLAT ROAD INTERSECTION		219602	16
SETTING OUT AND LEVELS PLAN	CH 7160 - CH 7340	219603	17
SETTING OUT AND LEVELS PLAN	CH 7340 - CH 7540	219604	18
SETTING OUT AND LEVELS PLAN	CH 7540 - CH 7740	219605	19
SETTING OUT AND LEVELS PLAN	CH 7740 - CH 7940	219606	20
SETTING OUT AND LEVELS PLAN	CH 7940 - CH 8260	219607	21
VERTICAL ALIGNMENT CONTROLS "A" AND "B"	CH 7000 - CH 7700	219608	22
VERTICAL ALIGNMENT CONTROLS "A" AND "B"	CH 7700 - CH 8340	219609	23
VERTICAL ALIGNMENT & CROSS SECTIONS & DETAILS - CHAMBERS FLAT ROAD; MONASH ROAD		219610	24
ROAD CROSS SECTIONS BRISBANE - BEENLEIGH ROAD	CH 7050 - CH 7420	219611	25
ROAD CROSS SECTIONS BRISBANE - BEENLEIGH ROAD	CH 7440 - CH 7820	219612	26
ROAD CROSS SECTIONS BRISBANE - BEENLEIGH ROAD	CH 7840 - CH 8320	219613	27
PAVEMENT CONSTRUCTION PLAN	CH 7000 - CH 7540	219614	28
PAVEMENT CONSTRUCTION PLAN	CH 7540 - CH 8260	219615	29
STONE PITCHED WALLS AND DRIVEWAY DETAILS		219616	30
DRAINAGE PROFILES- LINES A; B; 2B; 3Bb; 3Bc; C; 3C; D; E; 4Fa; 4Fb; J		219617	31
DRAINAGE PROFILES- LINES F; 2Fb; 2Fc; 3Fb; 3Fc; B; 3Bb; 3Bc; 5b; 14; 3Hb; 3Hc; I		219618	32
DRAINAGE PROFILES LINES K; 2K; L; M; N; O; 2O; 3O; P		219619	33
DRAINAGE STRUCTURES DETAILS STRUCTURES 3/C; 5/K; 3/B; 4/B; 5/B		219620	34
DRAINAGE STRUCTURES DETAILS STRUCTURES 2/F; 3/F		219621	35
DRAINAGE STRUCTURES DETAILS STRUCTURES 4/K; 6/K		219622	36
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7010 - CH 7160	219623	37
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7160 - CH 7340	219624	38
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7340 - CH 7540	219625	39
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7540 - CH 7740	219626	40
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7740 - CH 7940	219660	41
LANE MARKING AND TRAFFIC CONTROL DEVICES	CH 7940 - CH 8260	219661	42

PLAN INDEX NOTE: TRAFFIC SIGNAL INSTALLATION PLAN NO'S 219570 & 206482, NO'S 1 & 2 OF 2 ALSO FORM PART OF THIS SCHEME

Revised	Issue	Approved	Associated Job No	Dimensions in metres except where shown otherwise	FULL SIZE B1	SURVEY OR OTHER INFORMATION	THROUGH CHAMBER FROM	MAIN ROADS DEPARTMENT	LOGAN CITY COUNCIL	PLAN INDEX AND LOCALITY PLAN	70/204/LT15 235/8/434
				Client scale in millimetres			Km Km	BRISBANE - BEENLEIGH ROAD			No. 1 of 42 PLANS
			Auxiliary Plan No	SCALES	FOR SCHEME DOCUMENTATION REDUCE TO 1/4 Print on A3 size paper		204-95 204-98 204-96 204-97	PERMANENT REFERENCE POINTS	Boundaries	Checked	APPROVED
											219587



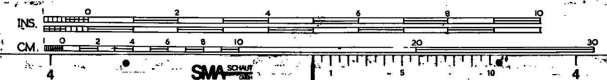


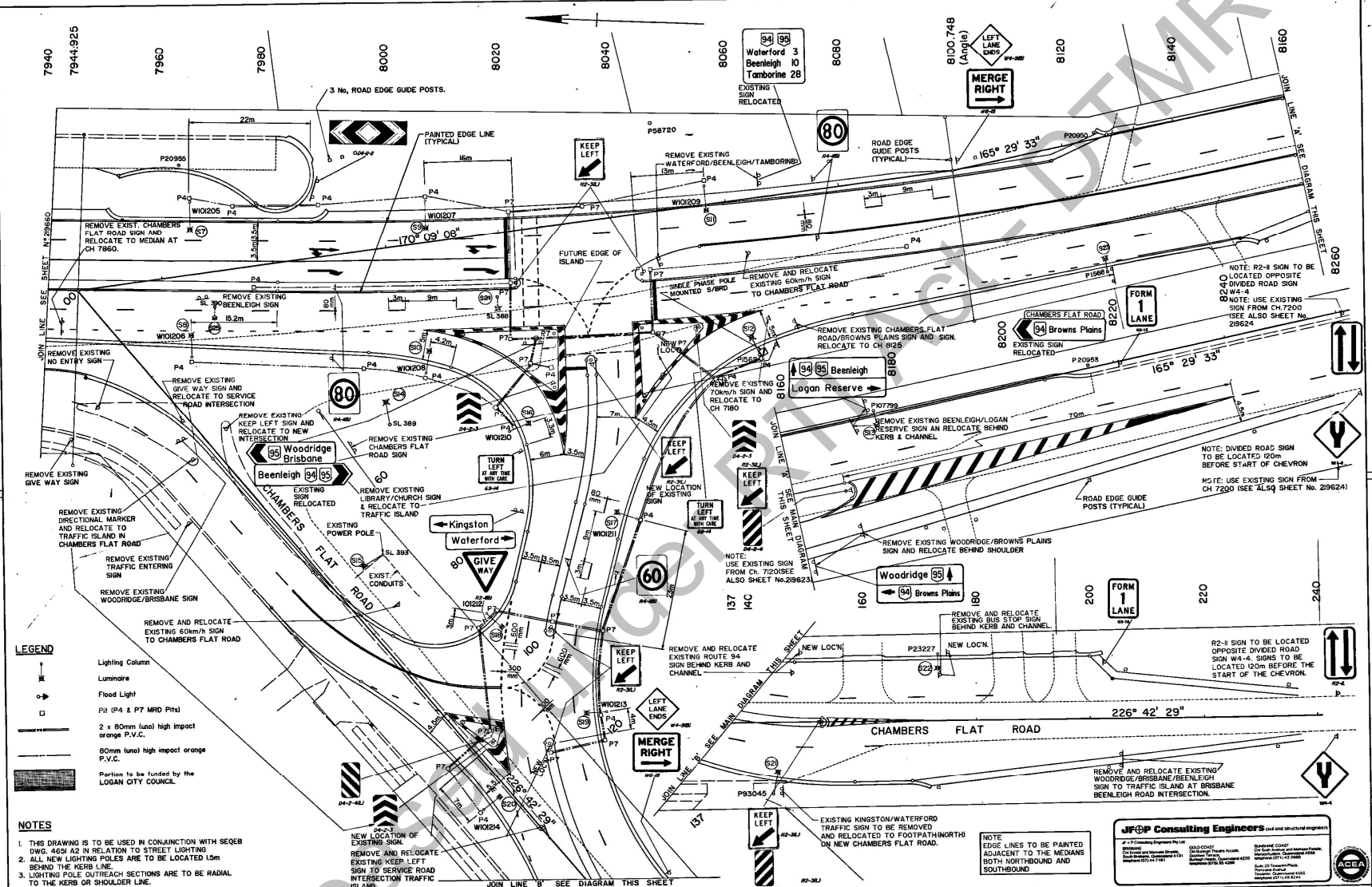
- ROAD PAVEMENTS**
- CEMENT TREATED PAVEMENT** (Based on CBR15k ESA-1x10⁷)
50mm depth, asphalt paving wearing course, 20mm mix.
280mm depth, cement treated base (category 1) (Refer Supp. Spec. No. 4)
 - SOIL AGGREGATE PAVEMENT** (Based on CBR 15 & ESA-1x10⁷)
75mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate base course
200mm depth, soil aggregate sub-base course
400mm depth, Selected gravel fill (Refer Supp. Spec. No. 5)
 - SOIL AGGREGATE PAVEMENT** (Based on CBR 15 & ESA-1.5x10⁹)
125mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate sub-base course
300mm depth, Selected gravel fill (Refer to Supp. Spec. No. 5)
 - SOIL AGGREGATE PAVEMENT**
50mm depth, asphaltic paving wearing course, 20mm mix.
125mm depth, soil aggregate base course.
125mm depth, soil aggregate sub-base course.
 - OVERLAY** (Corrector Course depth varies)
75mm depth, asphaltic paving wearing course, 20mm mix.
Depth varies, asphaltic paving corrector course, 20mm mix.
 - OVERLAY** (Corrector Course depth varies)
50mm depth, asphaltic paving wearing course, 20mm mix.
Depth varies, asphaltic paving corrector course, 20mm mix.
- MEDIAN TREATMENTS**
- CONCRETE MEDIAN** (Exposed Aggregate, Refer Supp. Spec. No. 8)
75mm min. depth, concrete slab (20 MPa/20mm Exposed Aggregate)
30mm depth, bedding sand (Refer Supp. Spec. No. 5)
150mm min. depth, selected gravel fill (Refer Supp. Spec. No. 5)
 - GRASSED MEDIAN**
Turf
100mm depth, topsoil
150mm min. depth, selected gravel fill (Refer Supp. Spec. No. 5)

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 17/17 Consulting Engineers Pty Ltd
 17/17 Consulting Engineers Pty Ltd

Revisions	Sheet No.	Microfoot	Associated Job No.	Dimensions (in metres except where shown otherwise)	FULL SIZE B1	SURVEY OR OTHER INFORMATION	THROUGH CORNER POINT	MAIN ROADS DEPARTMENT	LOGAN CITY COUNCIL	PAVEMENT CONSTRUCTION PLAN	70/204/LTIS 235/8/434	
Original Issue	72/337	1:500		0 5 10 15 20 25 30m	1:500		Km Km	BRISBANE - BEENLEIGH ROAD	7540 to 8260	PLAN No.	219615	
Auxiliary Plan Nos.				FOR SCHEME DOCUMENTATION	REDUCE TO 1 Part on A3 size paper	PERMANENT REFERENCE POINTS			Dist. to Start of	Dist. from End to	Dist. from End to	Dist. from End to
Survey Books				Reducing PMP	Dist. to Start of	Dist. from End to	Dist. from End to	Dist. from End to	Dist. from End to	Dist. from End to	Dist. from End to	Dist. from End to
Boundaries				Checked	TM	RM	Examined	RECOMMENDED	APPROVED	219615		





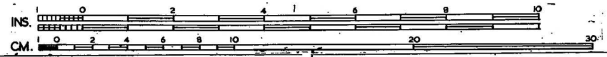
- LEGEND**
- Lighting Column
 - Luminaire
 - Flood Light
 - PII (P4 & P7 MRD Pins)
 - 2 x 80mm (unl) high impact orange P.V.C.
 - 80mm (unl) high impact orange P.V.C.
 - Portion to be funded by the LOGAN CITY COUNCIL.

- NOTES**
1. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH SEQEB DWG. 4601 A2 IN RELATION TO STREET LIGHTING
 2. ALL NEW LIGHTING POLES ARE TO BE LOCATED 1.5m BEHIND THE KERB LINE.
 3. LIGHTING POLE OUTREACH SPECIES ARE TO BE RADIAL TO THE KERB OR SHOULDER LINE.

JFCP Consulting Engineers Civil and structural engineers

14 F. Consulting Engineers Pty Ltd
 14/150-152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000

MAIN ROADS DEPARTMENT BRISBANE - BEENLEIGH ROAD PGD CHGE 7940 to 8260		LOGAN CITY COUNCIL LANE MARKING AND TRAFFIC CONTROL DEVICES		70/204/LTIS 235/8/434 No. 42 of 42 PLANS PLAN No. 219661
SURVEY NO. 204-93 204-98 204-94 204-99 204-97	PROJECT REFERENCE POINTS Proposed PIP Date to Start of Work Date from End of Following PIP Name	Designated RMM Drawn RMM Checked RMM Approved RMM	RECOMMENDED APPROVED N/R N/R	219661



PHASE DIAGRAMS	A PHASE			B PHASE			C PHASE			PHASE	PHASE	PHASE	PHASE	PHASE
	1	2	5	3	6	1	4							
SIGNAL GROUPS	1	2	5	3	6	1	4							
VEHICLE/PED	VG1	VG2	PG1	VG4	PG2	VG1	VG4							
LOGICAL INPUT	3	4	14	1	13	3	2	5						
CALL	X	X	PED1	X	PED2		X	X						
EXTEND	X	X		X		X	X	X						
INCREMENT	X	X												
SPECIAL CONDITIONS														

SIGNAL GROUPS	FUNCTION	CONTROLLER TERMINALS	RUN 1			RUN 2			RUN 3		
			CONNECTS			CONNECTS			CONNECTS		
1	RED	A5	1	1		1	1	1			
	YELLOW	A4	2	2		2	2	2			
	GREEN	A3	3	3		3	3	3			
2	RED	A8	4	4		4	4				
	YELLOW	A7	5	5		5	5				
	GREEN	A6	6	6		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	10			
	YELLOW	A13	11	11		11	11	11			
	GREEN	A12	12	12		12	12	12			
5	RED DW	B5	13	13		13	13				
	PED1										
	GREEN W	B3	14	14		14	14				
	RED DW	B8				15	15				
6	PED2										
	GREEN W	B6				16	16				

LEGEND

***** UNLESS OTHERWISE STATED *****

==== 2x100DIA HD ORANGE

----- 1x100DIA HD ORANGE

○ CIRCULAR PIT

● SIGNAL POST LOCATION

⊞ DETECTOR LOOP

⊞ DETECTOR LOOP DISCONNECTED

⊞ STATION/POST ID

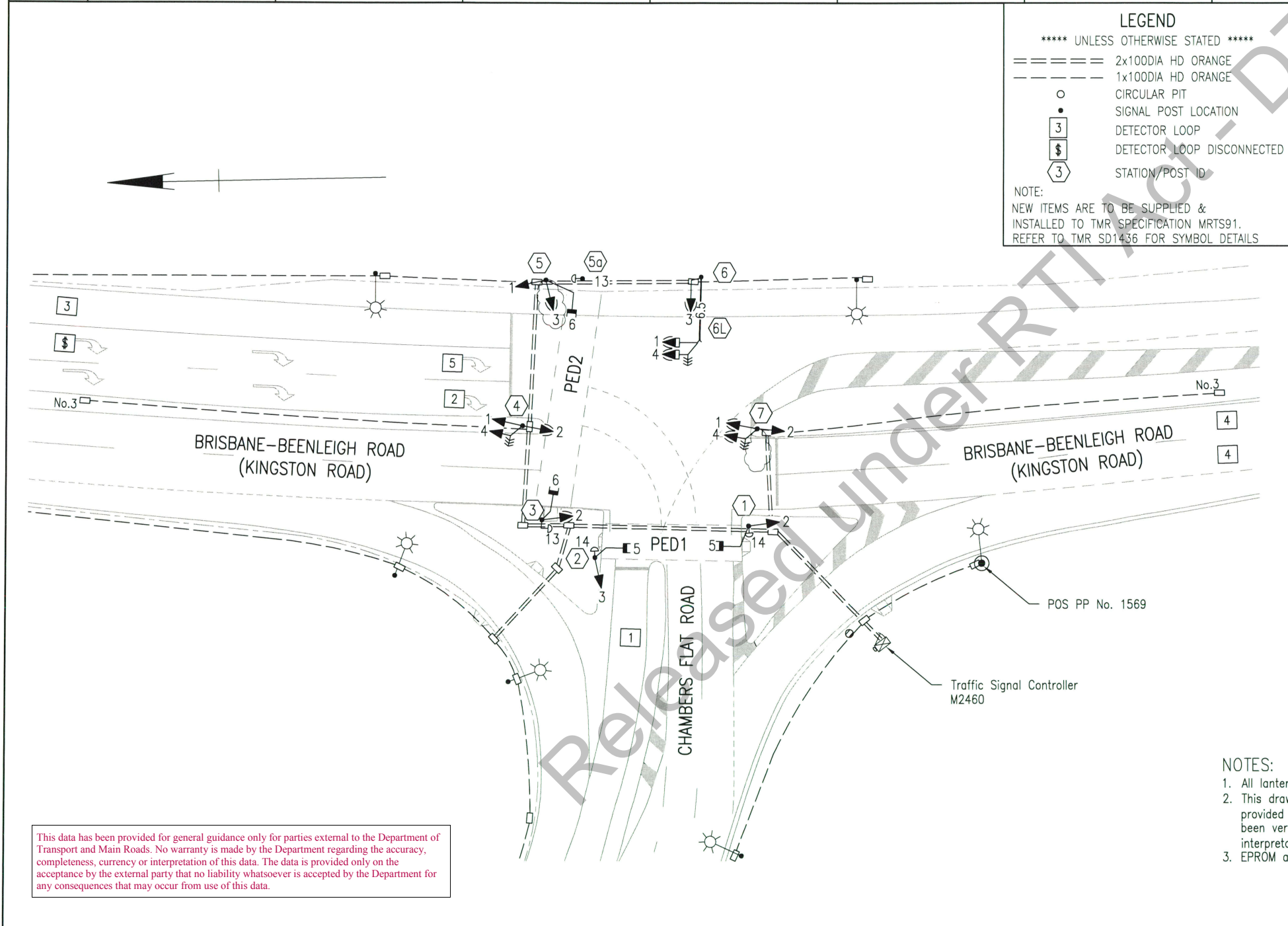
NOTE:
NEW ITEMS ARE TO BE SUPPLIED & INSTALLED TO TMR SPECIFICATION MRTS91. REFER TO TMR SD1436 FOR SYMBOL DETAILS

CONFLICT TABLE (X INDICATES CONFLICT)

VEHICLE GROUPS	VEHICLE GROUPS												PED GROUPS			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
1			X													X
2			X	X												X
3	X	X	X	X												X
4	X	X	X	X									X	X		
5																
6																
7																
8																
9																
10																
11																
12																
1			X	X												
2	X	X	X	X												
3																
4																

DETECTOR TABLE

PHYSICAL LABEL	CONTROLLER TERMINAL	LOGICAL INPUT	LOOP/PB CONFIGURATION	DIST TO STOP LINE
LOOP 1	P1	1	STOP LINE	6m
LOOP 2	P2	2	STOP LINE	4m
LOOP 3	P3	3	ADVANCE	45m
LOOP 4	P4	4	ADVANCE	45m
LOOP 5	P5	5	STOP LINE	6m
		6		
		7		
		8		
		9		
		10		
		11		
		12		
EXT2	E6	13	Pb2-STD	
EXT1	E5	14	Pb1-STD	
		15		
		16		

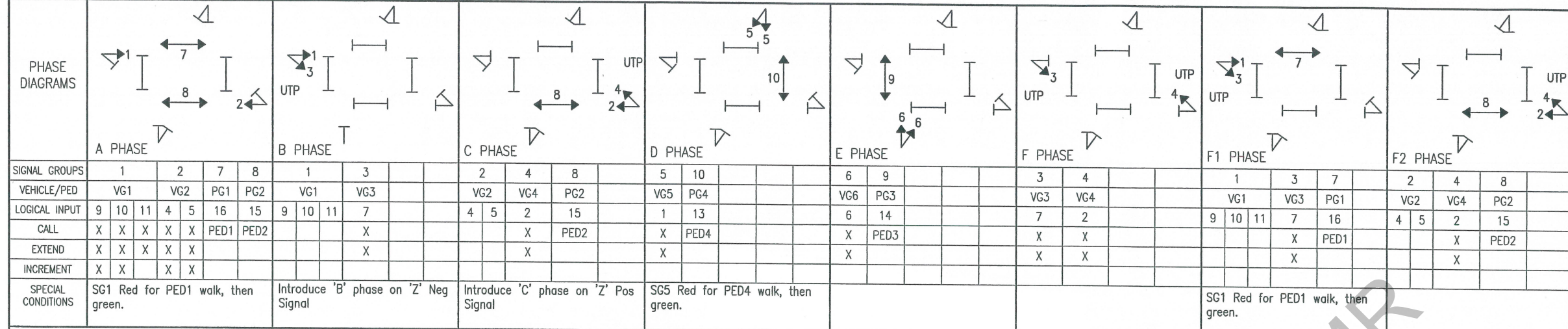


- NOTES:**
- All lanterns are Light Emitting Diode (LED) type.
 - This drawing has been compiled from mark up's provided by the electrical contractor that haven't been verified. Certification is limited to interpretation of mark up's only.
 - EPROM and software upgraded for EVP project.

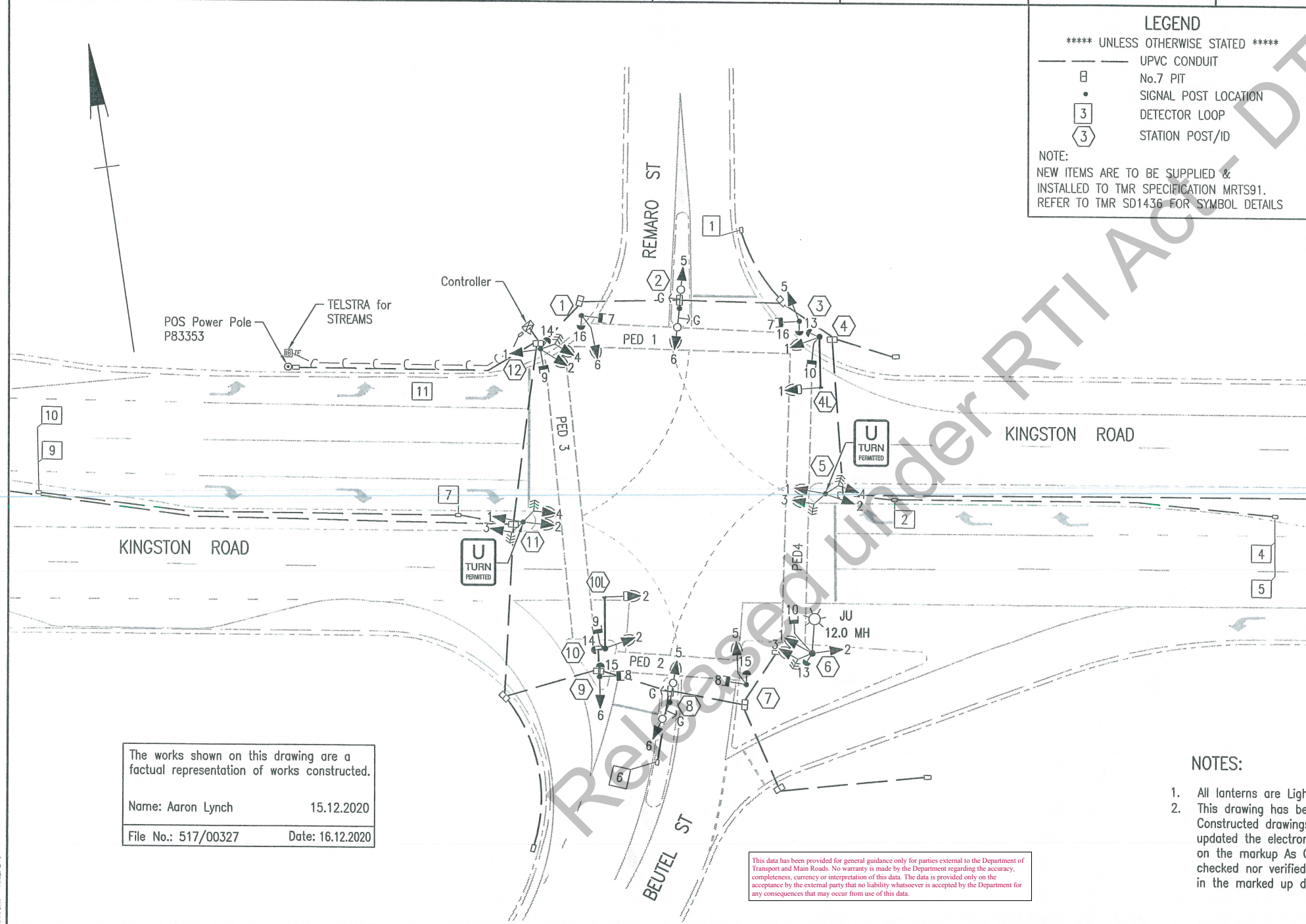
This data has been provided for general guidance only for parties external to the Department of Transport and Main Roads. No warranty is made by the Department regarding the accuracy, completeness, currency or interpretation of this data. The data is provided only on the acceptance by the external party that no liability whatsoever is accepted by the Department for any consequences that may occur from use of this data.

EXT2 DET 13	E6	24	24	24	24
EXT1 DET 14	E5			25	25
230V	A2	26	26	26	26
DET COMMON	E3	27	GY	27	GY
NEUTRAL	AT,B1 C1,D1	NL	BK	NL	BK
SPARE CORES TO EARTH		15-23 25		17-23 4-9, 13-17	
CABLE SIZE		29		29	19
CONTROLLER TYPE		PHILIPS PSC3 QC8ID			

Associated Job Nos 235/8/434		Survey Data Datum		Scales 0 2 4 6 8 10m		LOGAN CITY BRISBANE-BEENLEIGH ROAD (KINGSTON ROAD) INTERSECTION WITH CHAMBERS FLAT ROAD		TRAFFIC SIGNAL INSTALLATION OPERATIONS AND ELECTRICAL CONNECTION SHEET		Site Number M2460 UBD MAP 262 D3		Queensland Government	
Auxiliary Drg Nos		Horiz. Grid		Height Origin		Reference Points Preceding RP Dist. to start of job (km) From start to end of job From end to Following RP Following RP		Drawn L.Gibson		ENGINEERING CERTIFICATION (RPEQ) ENG. AREA NAME SIGNATURE NO. DATE		Job No. S20/R001/496	
Revisions/Descriptions		Certification Date M'filed		Dimensions shown in metres except where shown otherwise		204/12 0.00 0.120 Km 0.00 204/12		Checked J.Ong		Contract No. METD-2971		Drawing No. 649367 D	
CAD FILES G:\NERD\ROAD PROJECTS\Elements\34\R10-R004-407\CCW_EVP_Sep_2016\Batch_3\M2460\M2460_649367_D.dwg						Through Chainage 1000.00 Page 16 of 17				Series Number - of -		MRT_Detail (02/14)	



SIGNAL GROUPS	FUNCTION	CONTROLLER TERMINALS	RUN 1			RUN 2			RUN 3		
			CONNECTS			CONNECTS			CONNECTS		
			FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS	FINAL TERMINALS
1	RED	A5	1	1	1	1	1	1	1	1	
	YELLOW	A4	2	2	2	2	2	2	2	2	
	GREEN	A3	3	3	3	3	3	3	3	3	
2	RED	A8	4	4	4	4	4	4	4	4	
	YELLOW	A7	5	5	5	5	5	5	5	5	
	GREEN	A6	6	6	6	6	6	6	6	6	
3	RED	A11	7	7	7	7	7	7	7	7	
	YELLOW	A10	8	8	8	8	8	8	8	8	
	GREEN	A9	9	9	9	9	9	9	9	9	
4	RED	A14	10	10	10	10	10	10	10	10	
	YELLOW	A13	11	11	11	11	11	11	11	11	
	GREEN	A12	12	12	12	12	12	12	12	12	
5	RED	B5	13	13					13	13	
	YELLOW	B4	14	14					14	14	
	GREEN	B3	15	15					15	15	
6	RED	B8	16	16					16	16	
	YELLOW	B7	17	17					17	17	
	GREEN	B6	18	18					18	18	
7	RED DW	B11	19	19							
	PED1										
8	GREEN W	B9	20	20							
	RED DW	B14							11	11	
	PED2										
9	GREEN W	B12							12	12	
	RED DW	C5						19	19	19	
	PED3										
10	GREEN W	C3						20	20	20	
	RED DW	C8	21	21					21	21	
	PED4										
	GREEN W	C6	22	22					22	22	



LEGEND
 ***** UNLESS OTHERWISE STATED *****
 - - - - - UPVC CONDUIT
 No.7 PIT
 ○ SIGNAL POST LOCATION
 □ DETECTOR LOOP
 ○ STATION POST/ID
 NOTE:
 NEW ITEMS ARE TO BE SUPPLIED & INSTALLED TO TMR SPECIFICATION MRTS91. REFER TO TMR SD1436 FOR SYMBOL DETAILS

CONFLICT TABLE (X INDICATES CONFLICT)

VEHICLE GROUPS	VEHICLE GROUPS												PED GROUPS				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	
1				X	X	X										X	X
2		X		X	X											X	X
3	X			X	X										X	X	
4	X			X	X								X		X	X	
5	X	X		X	X								X	X	X	X	
6	X	X	X	X	X								X	X	X	X	
7																	
8																	
9																	
10																	
11																	
12																	
1				X	X	X											
2			X	X	X												
3	X	X	X	X	X												
4	X	X	X	X	X												

DETECTOR TABLE

PHYSICAL LABEL	CONTROLLER TERMINAL	LOGICAL INPUT	LOOP/PB CONFIGURATION	DIST TO STOP LINE
LOOP 1	P1	1	STOP LINE	6m
LOOP 2	P2	2	STOP LINE	6m
LOOP 4	P4	4	ADVANCE	42m
LOOP 5	P5	5	ADVANCE	42m
LOOP 6	P6	6	STOP LINE	6m
LOOP 7	P7	7	STOP LINE	7m
LOOP 9	Q9	9	ADVANCE	47m
LOOP 10	Q10	10	ADVANCE	47m
LOOP 11	Q11	11	STOP LINE	10m
		12		
EXT4	E8	13	Pb4-AUDIO	
EXT3	E7	14	Pb3-AUDIO	
EXT2	E6	15	Pb2-AUDIO	
EXT1	E5	16	Pb1-AUDIO	

EXT4 DET 13	E8	23	23					23	23
EXT3 DET 14	E7			24	24			24	24
EXT2 DET 15	E6							25	25
EXT1 DET 16	E5	25	25						
230V	A2	26	26			26	26	26	26
DET COMMON	E3	27	GY			27	GY	27	GY
NEUTRAL	AT,B1 C1,B1	NL	BK	BK	NL	BK	NL	BK	BK
SPARE CORES TO EARTH		24	4-GY			13-18 21-23 25		1-3 10	1-3 7-GY
CABLE SIZE		29	19			29		29	19

The works shown on this drawing are a factual representation of works constructed.
 Name: Aaron Lynch 15.12.2020
 File No.: 517/00327 Date: 16.12.2020

- NOTES:**
- All lanterns are Light Emitting Diode (LED) type.
 - This drawing has been prepared from the marked-up As Constructed drawings as provided by the Contractor. TMR has updated the electronic drawing with the information provided on the markup As Constructed drawing. The certifier has not checked nor verified the accuracy of the information contained in the marked up drawing.

Associated Job Nos 70/204/20	Survey Data	Scales 0 2 4 6 8 10m	LOGAN CITY		TRAFFIC SIGNAL INSTALLATION OPERATIONS AND ELECTRICAL CONNECTION SHEET		Site Number M2492	
Auxiliary Drg Nos	Datum		BRISBANE - BEENLEIGH ROAD		KINGSTONE ROAD, BEUTEL & REMARO STREETS		UBD Map 262 G9	
	Horiz. Grid		Reference Points		Drawn L.GIBSON	ENGINEERING CERTIFICATION (RPEQ)		Job No. S20/R001/467
	Height Origin		Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	Contract No. 649848 E
	Survey Books	Dimensions shown in metres except where shown otherwise	204/13	0.92	N/A	0.64	204/14	Drawing No.
			Through Chainage from Start of Gazetted 11.69km		Designed B.JONES	NO. DATE 11301 14.05.2015		Series Number of MRT_Detail (02/14)

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