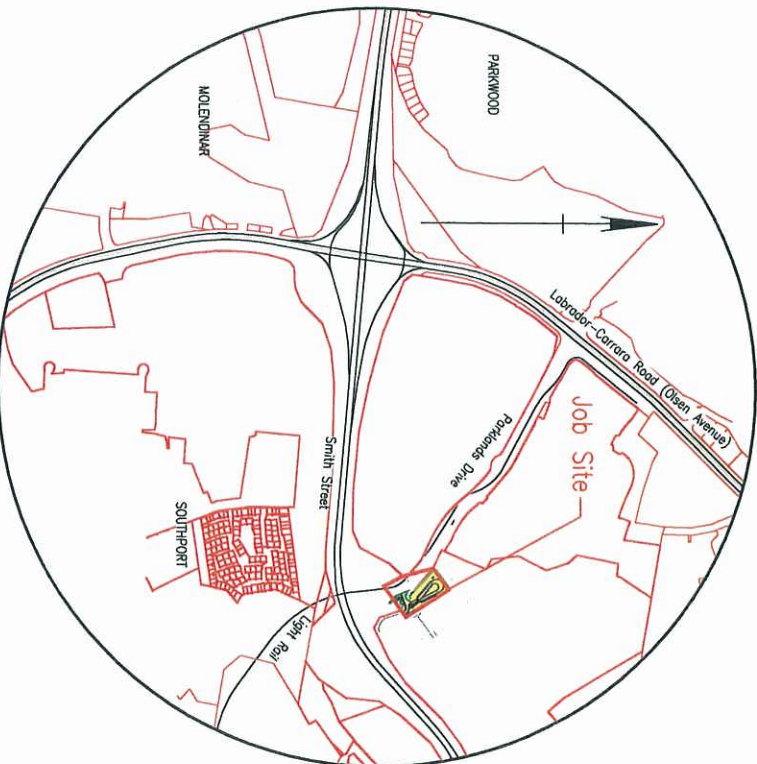
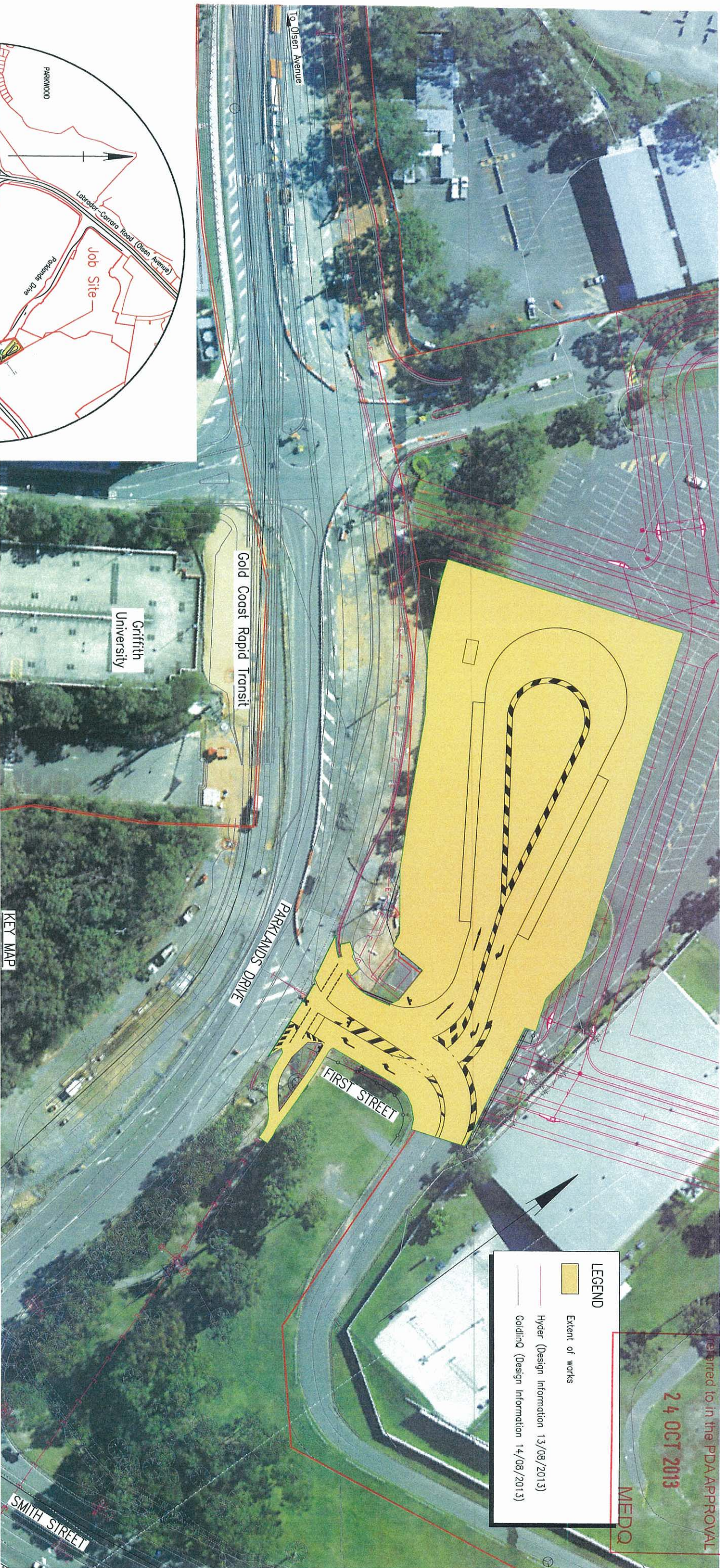


24 OCT 2013

MEDQ

- LEGEND
- Extent of works
 - Hyder (Design Information 13/08/2013)
 - Golding (Design Information 14/08/2013)



LOCALITY PLAN

NTS

SCHEME SUBMITTED (*External Consultants or Internal Business Unit*):
This scheme has been prepared in accordance with the requirements of the brief/functional specifications.

SIGNED: *[Signature]* TITLE: *Project Manager*
Organisation: DATE: *24 00 13*

SCHEME SCOPE AND FINANCIAL APPROVAL: (*Regional Director or Delegate*):
I hereby certify that this scheme complies with the intent of the scope and financial limits of the relevant project and the scheme is approved for release in accordance with that program.

SIGNED: *[Signature]* TITLE: *D. Seariti* DATE: *25/9/13*

Note: TMR certification excludes all aspects related to pre-fabricated Amenities Building, structural access ramps and associated work by others.

Scales

0 2 4 6 8 10m

GOLD COAST CITY
PARKLANDS DRIVE

140m NORTH OF SMITH ST INTERSECTION

Reference Points
Preceding Dist. to start From start to Following
RP of job (km) end of job RP

Drawn	M. Pritchett
Checked	B. Hough
Designed	B. Hough
Verified	P. Price
Design Reviews (RPED)	

M. Wong
No. 08826
Date: *24/9/13*

PARKLANDS BUS TURNAROUND FACILITY
DRAWING INDEX, KEY MAP AND LOCALITY PLAN

ENGINEERING CERTIFICATION (RPED)	NAME	DATE	For scheme approval status refer Drg. No. 624472
ENG. AREA	Y. Wong	<i>24/9/13</i>	(DI-1 of 1)
SIGNATURE			

Job No.	230/P019/1
Contract No.	SCHD-3121
Drawing No.	624472
Series Number	DI-1 of 1

Drawing Number	Series Number	Revision Number	Drawing Description
624472	DI-1	A	DRAWING INDEX, KEY MAP AND LOCALITY PLAN
624473	TC-1	A	TYPE CROSS SECTIONS AND NOTES
624474	CD-1	A	CONSTRUCTION DETAILS
624475	AL-1	A	CONTROL LINES AND SETOUT TABLES
624476	SL-1	A	SIGNS, PAVEMENT MARKINGS, SURVEY AND CONTROL. LINE SETOUT TABLES
624477	XS-1	A	MCC1 - ANNOTATED CROSS SECTIONS
624478	XS-2	A	MCC1 - ANNOTATED CROSS SECTIONS
624479	TS-1	A	TRAFFIC SIGNAL INSTALLATION 5587 CONNECTION SHEET
624480	TS-2	A	TRAFFIC SIGNAL INSTALLATION 5587 CONDUITS, PITS AND FOOTINGS
624481	RL-1	A	RATE 3 ROAD LIGHTING SITE 185
624482	RL-2	A	RATE 3 ROAD LIGHTING SITE 185

Revisions/Descriptions	Ref	Certification	Date	Microfiled
A				
B				
C				
D				
E				

Associated Job Nos	SURVEY DATA
Auxiliary Drg Nos	MG494 256
Horiz. Grid	MG494 256
Height	AHD
Origin	
Survey	MG494 256
Books	MG494 256 & MG494 257

Dimensions shown in metres	except where shown otherwise
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Through Change from	
---------------------	--

Drawn	M. Pritchett
Checked	B. Hough
Designed	B. Hough
Verified	P. Price
Design Reviews (RPED)	

ENGINEERING CERTIFICATION (RPED)	NAME	DATE	For scheme approval status refer Drg. No. 624472
ENG. AREA	Y. Wong	<i>24/9/13</i>	(DI-1 of 1)
SIGNATURE			

Job No.	230/P019/1
Contract No.	SCHD-3121
Drawing No.	624472
Series Number	DI-1 of 1

NOTES

1. Fence setout as per fence alignment table on Series No. SL1. Where setout points are not provided fence to be installed 1m from property boundary or back of pedestrian hardstand.
2. Fence as per Std Drg No. 1602.

- PRE-FABRICATED AMENITIES BUILDING (Variation section)
3. Pre-fabricated amenities building refer "Variation: Driver Amenities Building" as directed by the Principal.

- PAVEMENT
4. For pavement extents refer Construction Detail drawings on Series Nos CD-11.
5. Refer Pavement Layer Details this Drawing for more information.

- DRAINAGE
6. Refer Std Drg 1033 for Type 22 and Type 28 channel detail.
7. The Contractor shall reshape existing bottom of batter (batter toe) and fill to form concrete channel to ensure drainage flow minimum of 0.5% longitudinal fall.

- CONCRETE
8. Unless specified elsewhere in Contract, concrete shall be N25/20.
9. Kerb Ramps to TMR Std Drgs 1446 and 1447.

- SITE PREPARATION WORKS
10. Unless otherwise specified, the extent of clearing and grubbing, stripping of topsoil and hydromulching (grass seed mix) shall not extend 1.2m beyond the limits of batters.
11. Areas disturbed during construction by the Contractor shall be repaired with hydromulching (grass seed mix) at no extra cost.

PUBLIC UTILITIES PLANT

12. No work shall be carried out within 3 meters of any existing service without prior recorded consultation with the relevant authority.
13. The Contractor will be solely responsible for any damage to existing services as a result of execution of work under this Contract.
14. The existing information shown on the drawings has been compiled from survey information and information supplied by various service authorities (compiled date August 2013).
15. The information is not intended to provide the Contractor with complete or accurate information concerning the location and extent of services.
16. Energex enclosure has earthing straps to be avoided during fence footing placement.
17. All service conflicts shall be co-ordinated by Project Manager (Not in Design Scope).

PEDESTRIAN RAMPS

18. In accordance with TMR Std Drg Nos 1446 and 1447
19. TOSI location details in accordance with TMR Std drgs. 1446, 1447, KRC1 & KRC2.

PAVEMENT MARKING

20. Unless indicated otherwise, all signs and pavement marking shall be in accordance with the current Manual of Uniform Traffic Control Devices.
21. New pavement marking shall join smoothly to existing where required.
22. All Thermoplastic to be painted 3mm thick.

SIGNS

23. All signs shall be installed in accordance with "Design Guide for Roadside Signs". Unless otherwise instructed by the Superintendent, all the new single posts shall be minimum size 50NB x 3.2mm CHS x 750mm depth.
24. All relocated signs are to be installed in accordance with the Contract Documents and the low risk or frangible support detail on Std Drg 1363 and 1368.
25. Existing signs to be relocated shall be installed on new posts.
- REFERENCE TO OTHER DRAWINGS
26. Complete Drawing list and numbers, refer Series No. DI-1.

ADT = 60 vpd ESA/HV=7.52 (laden)

Design Period = 5 yrs

Design Traffic = 8.40X10⁵ ESA (bus laden)

Design Subgrade CBR = 2.5 (wet)

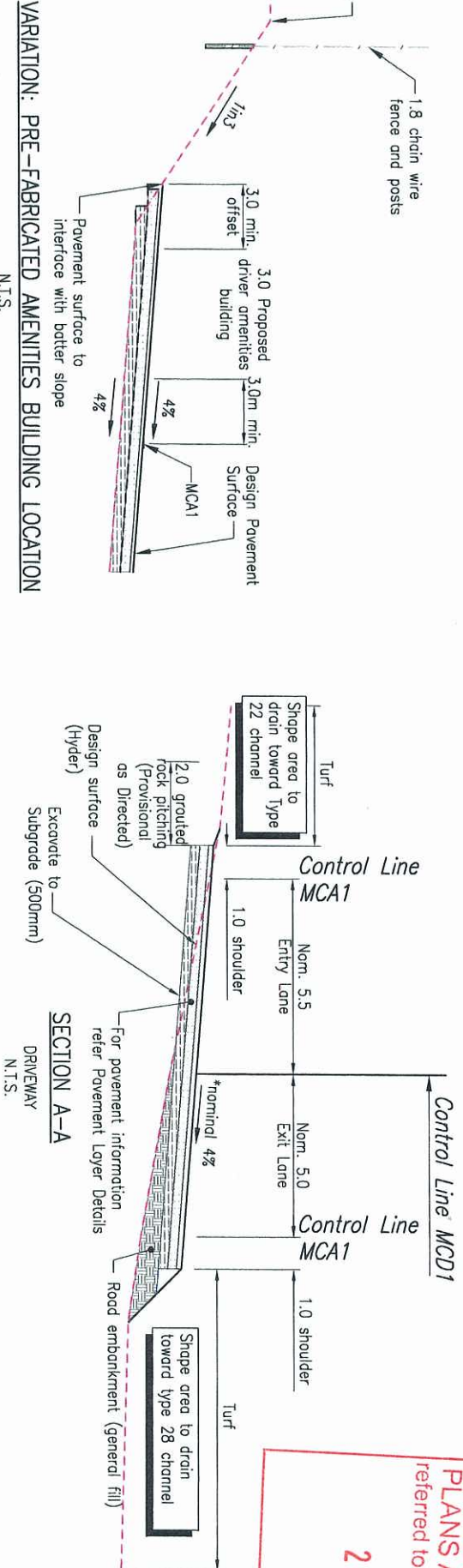
= 3.0 (wet with working platform)

Design Speed = 10km/h

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

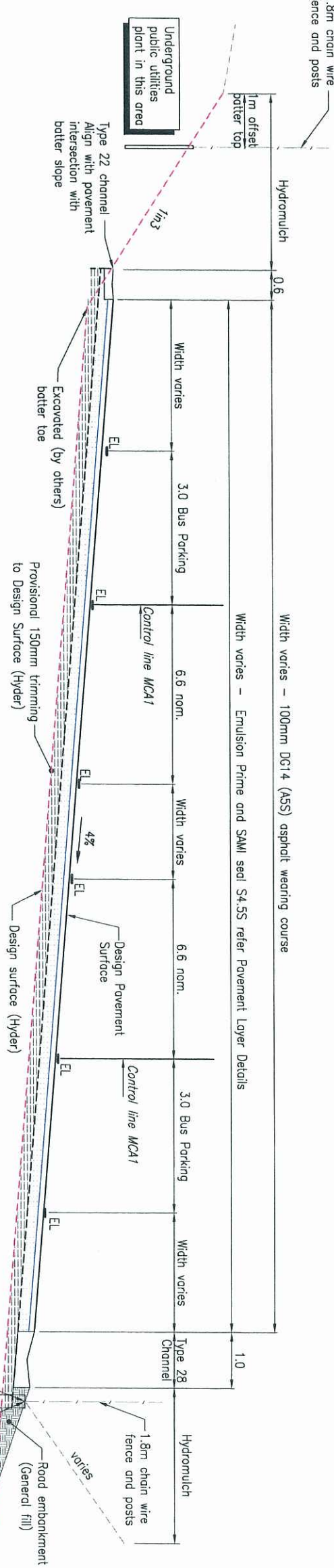
24 OCT 2013

MEDQ

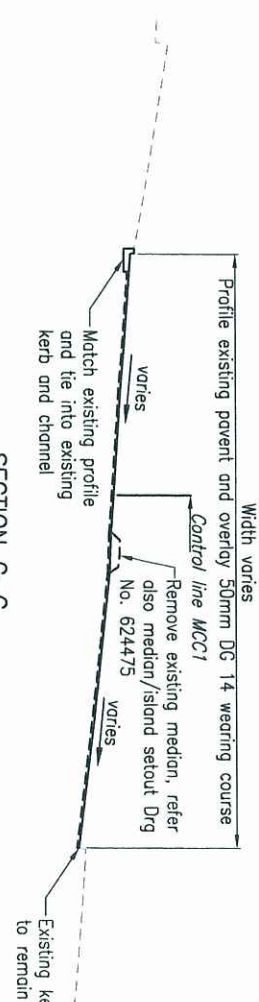


VARIATION: PRE-FABRICATED AMENITIES BUILDING LOCATION

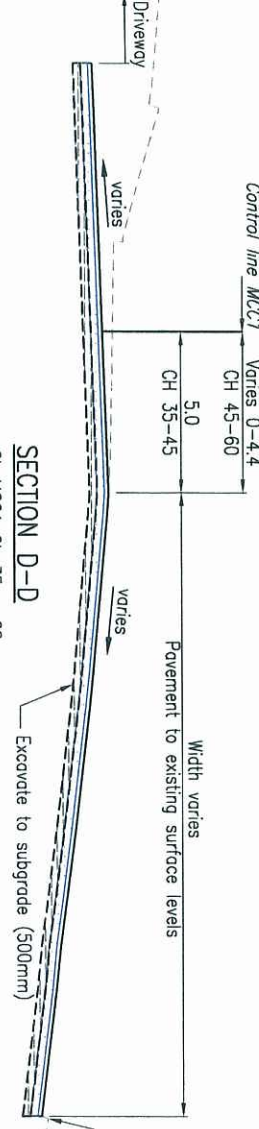
N.T.S.



SECTION C-C N.T.S.



SECTION D-D N.T.S.



PAVEMENT LAYERS DETAILS

100mm DG14 (A5S)

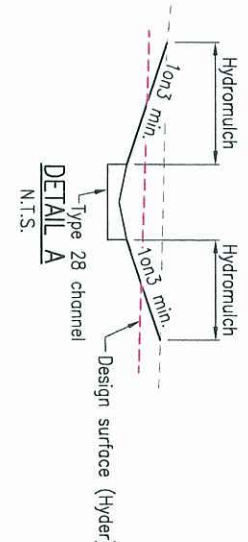
Emulsion Prime with SAMI S4.5S (10mm) seal coat below DG 14 wearing course. Application rates to be confirmed by contractor subject to actual site conditions and material properties.

200mm CTB (category 2), UCS=2.5MPa
Subtype 2.1 granular material, min 2% plant mix cement

Cement/water slurry applied at 2kg/m² over working platform prior to CTB (Category 2)

200mm min 2% plant mix cement stabilised Subtype 2.3 granular as working platform of UCS=1.5MPa (100% RDD)

Based on design surface information provided by Hyder



Associated Job Nos		SURVEY DATA		Scales	
					
Auxiliary Drg Nos		MCAG4 Z56			
624472-624475 624479-624482		Horiz. Grid Height Origin AHD			
Original Issue A3		Survey MRR8438, MRR5182 MRR6918, MRR7398		Dimensions shown in metres except where shown otherwise	
Revisions/Descriptions		Books MRR8505			
Ref		Certification			
Date		Microfilm			
CAD FILES		C:\ROAD PROJECTS\Torrin\A230_P019_1_Bus Turn Portlands Design Acad Final TC-4.dwg			
GOLD COAST CITY				Drawn M. Pritchett	
PARKLANDS DRIVE				Checked B. Hough	
140m NORTH OF SMITH ST INTERSECTION				Designed B. Hough	
Reference Points				Verified P. Price	
Preceding RP		Dist. to start of job (km)		Design Reviews (RPEO)	
		From start to end of job		M. Wong No. 08826 Date: 24/9/13	
		From end to Following RP			
Through Change from					
PARKLANDS BUS TURNAROUND FACILITY					
TYPE CROSS SECTIONS					
AND NOTES					
ENGINEERING CERTIFICATION (RPEO)					
ENG. AREA		NAME		NO.	
CIVIL		Y. Wong		09547	
		40mm		24/9/13	
				For scheme approval status refer Drg. No. 624472 (DI-1 of 1)	
Job No.		230/P019/1		Contract No. SCHD-3121	
Drawing No.		624473		A	
Series Number		TC-1 of			
MRR Detail (02/11)					
Queensland Government					
The State of Queensland (Department of Transport and Main Roads) 2011					
http://creativecommons.org/licenses/by/2.5/au					

Pt	Chainage	Easting	Northing	Bearing
IP1	0.000	557950.366	6906774.954	323°50'33"
TC	40.000	537926.786	6906807.250	

Station	Easting	Northing	Comments	Combined Scale Factor
PM110693	537932.691	6906739.279	PPMK DDM	0.99960833
214	537935.738	6906736.799	PCPP GIN Nail	0.99960956
SSM1224	537943.544	6906707.800	PCPP GIN Nail	0.99960874
STN106P	537868.780	6906801.903	PSP	0.99960746
212P	537864.448	6906805.013	PCPP 212	0.99960742
PM177032	538432.927	6906976.004	PPMK Standard M177032	0.99960844
211P	537853.251	6906624.318	PCPP 211	0.99960732
210P	537787.562	6906626.655	PCPP 210	0.99960737

Point	Chomage	Easting	Northing	Bearing	Radius
IP1	0.000	537930.089	6906769.660	58°41'57"	
TC	0.454	537930.477	6906769.896	58°41'57"	
IP2	10.802	537942.104	6906776.966		-12.500
CT	21.149	537934.075	6906787.952	323°50'32"	
IP3	33.087	537927.032	6906797.590		
TC	91.739	537882.359	6906835.595	310°23'19"	
IP4	107.470	537865.809	6906849.675		17.770
CTP	123.202	537882.893	6906863.101	51°50'08"	
IP5	138.933	537899.977	6906876.528		17.770
CT	154.665	537909.746	6906857.119	153°16'56"	
IP6	216.646	537937.613	6906801.756		
TC	235.323	537948.632	6906786.675	143°50'33"	
IP7	237.681	537950.404	6906784.251		-3.000
CT	240.038	537952.827	6906786.025	53°47'44"	
IP8	240.695	537953.557	6906786.413	143°50'33"	

POINT	CHANGE	EASTING	Northing	Level	Bearing	Radius
IP1	0.000	537907.198	6906750.465	20.710	68°11'30"	
TC	16.742	537922.742	6906756.665	20.519	68°11'30"	
IP2	23.002	537928.585	6906759.022		-50.000	
IP3	29.262	537933.666	6906762.735			
IP4	76.030	537971.427	6906790.327	17.609		

Point	Chaining	Easting	Northing	Bearing	Radius
IP1	0.000	537915.392	6906766.287	158°08'23"	
TC	30.948	537926.915	6906737.564	158°08'23"	
IP2	34.024	537928.098	6906734.616		-10.000
CT	37.100	537930.765	6906732.890	122°53'25"	
TC	42.227	537935.070	6906730.107	122°53'25"	
IP3	44.970	537937.468	6906728.556		8.000
CT	47.713	537938.342	6906725.837	162°10'54"	
IP4	50.858	537939.304	6906722.843	122°53'25"	

MEDIAN/ISLAND SETOUT POINTS		
Point	Easting (X)	Northing (Y)
K1	537928.496	6906758.161
K2	537921.691	6906754.089
K3	537921.303	6906754.256
K4	537920.193	6906757.016
K5	537920.585	6906757.639
K6	537921.866	6906759.287
K7	537917.841	6906752.644
K8	537917.020	6906752.989
K9	537915.177	6906757.006
K10	537915.816	6906757.861
K11	537917.592	6906757.657
K12	537917.878	6906757.385
K13	537919.357	6906753.701
K14	537919.095	6906753.111

Auxiliary Dog Nos	Associated Job Nos.
624472-624475	
624479-624482	
E	
D	
C	
B	
A	
Original issue A3	
Revisions/Descriptions	
Ref	
Certification	
Date	
Microfilmed	

SURVEY DATA		
Horiz. Grid Height Origin	MGA94 Z56 AHD	
Survey Books		MR93800 and MR84838 MR85782, MR6918, MR7398, & MR88505

Scales



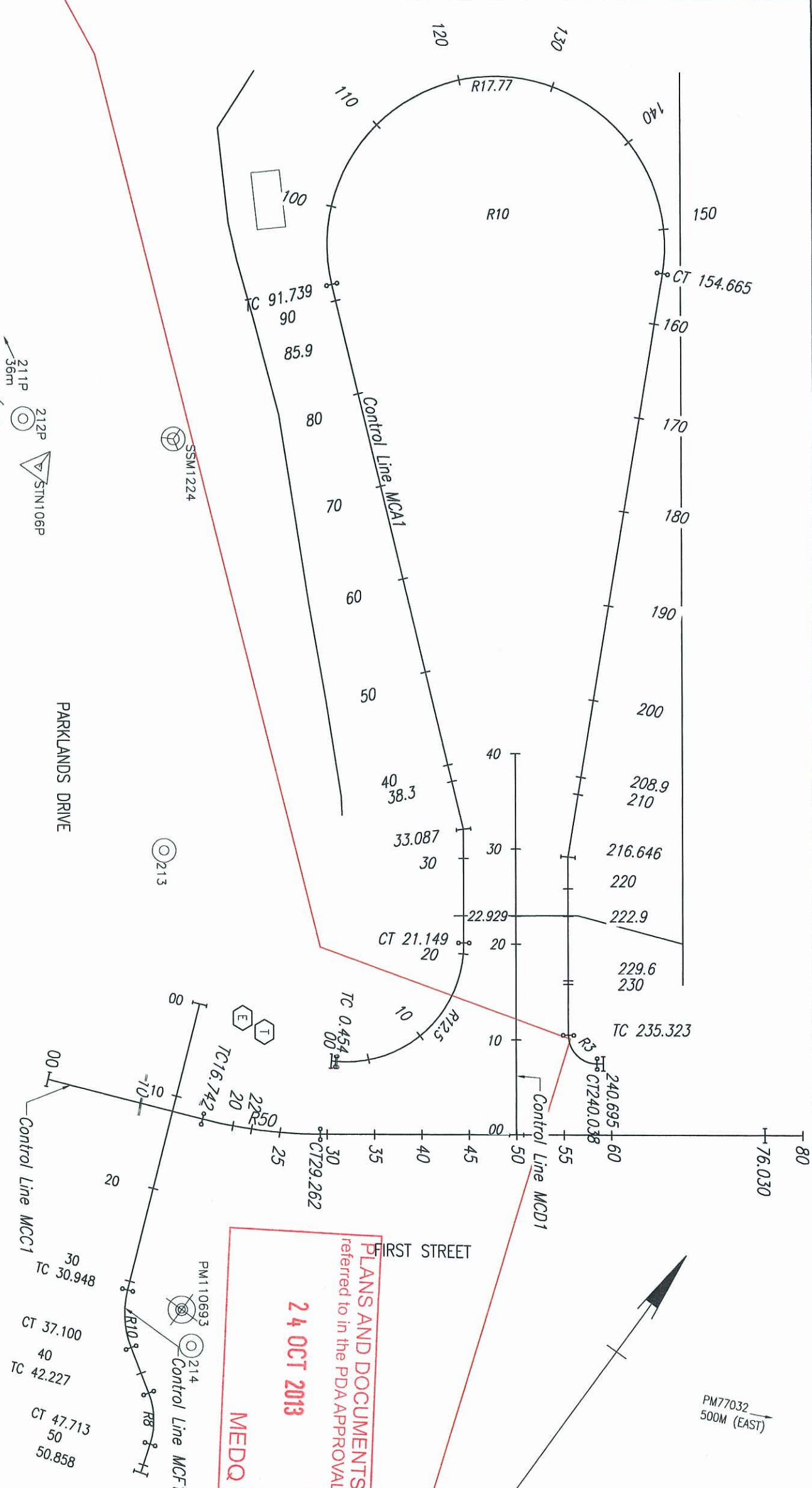
0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

GOLD COAST CITY				Drawn	M. Pritchett
PARKLANDS DRIVE				Checked	B. Hough
140m NORTH OF SMITH ST INTERSECTION				Designed	B. Hough
				Verified	P. Price
Reference Points					
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to following RP	Following RP	
			Through	Change	from
				M. Wong	
No. 0826				Date	20/11/11

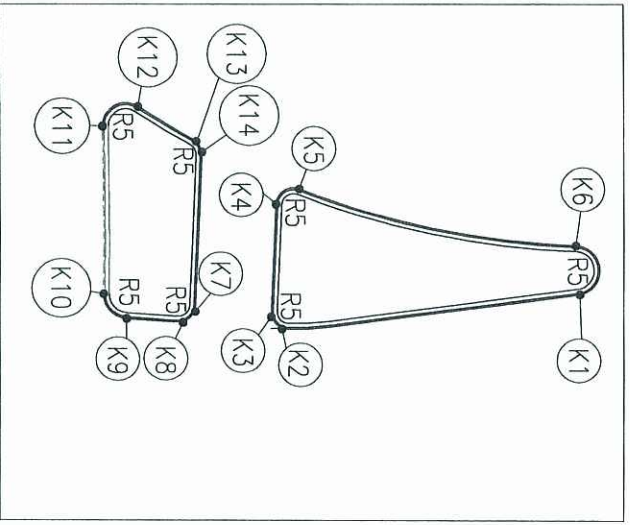
ENGINEERING CERTIFICATION (RPEQ)				For scheme approval status refer Drg. No. 624472
ENG. AREA	NAME	SIGNATURE	NO.	DATE
CIVIL	Y. Wong	<i>Y. Wong</i>	03647	<i>24/9/13</i>
				(01-1 of 1)

 Queensland Government	
The State of Queensland (Department of Transport and Main Roads, 2011) http://rhdh.commons.org/licenses/by/2.5/au	
Job No.	230/P019/1
Contract No.	SCHD-3121
Drawing No.	6244/5 A
Series Number	A1-1 of
MRR Detail (02/11)	



LEGEND (refer with Drg No. 624474)

<u>Existing Services</u>	
Underground Telecommunications	---
Underground Optic Fibre	-T- -T- -T- -T-
Overhead Telecommunications	--OF-- --OF-- --OF--
Overhead Electricity	-T- -T- -T- -T-
Underground Electricity	-E- -E- -E- -E-
Gas	-G- -G- -G- -G-
Drainage pipe	-D- -D- -D- -D-
Stormwater pipe/culvert	=====
DBYD Gas	-dG- -dG- -dG- -dG-
DBYD Water	-dW- -dW- -dW- -dW-
DBYD Sewer	-dS- -dS- -dS- -dS-
DBYD Drainage	-dD- -dD- -dD- -dD-
DBYD Telecommunications	-dT- -dT- -dT- -dT-
DBYD Optic Fibre	-dOF- -dOF- -dOF- -dOF-
DBYD Energex	-dE- -dE- -dE- -dE-
<u>Proposed Features</u>	
Codestral Boundary	=====
Batters	Y Y Y Y Y Y Y Y
Kerb and channel to match existing	=====
Chain wire fence	=====
Sawcut/Construction line	=====
Hyder design to be constructed by others	=====
<u>Existing Features</u>	
Pavement Edge	=====
Batter	=====
Drain	=====



NOTE:
For Construction Details, refer Series No. CD-1 and Type Cross Section drawing on Series No. TC-1.

Associated Job Nos		Scales		Drown		M. Pritchett		The State of Queensland (Department of Transport and Main Roads) 2011 http://trafficmainroads.qld.gov/2/5/6u	
SURVEY DATA		GDA		Checked		B. Hough			
Auctioning Drg Nos		MCA94 756		Designed		B. Hough			
E		624472-624475		Verified		P. Price			
D		624472-624475		Design Reviews (RP/CD)					
C		624479-624482		Reference Points					
B		Height		From start to end of job		From end to Following RP			
A		Origin		RP		Following RP			
Revisions/Descriptions		Ref		Certification		Date		No. 08826	
Original Issue A3		MCA900 ~ MCA938		MCA938 ~ MCA939		MCA939 ~ MCA940		MCA940 ~ MCA941	
CADD FILES		C:\ROAD PROJECTS\Trombini\230_P019_1_Bus Turn Parklands Design\Acad\Final\SL-A.dwg		Dimensions shown in metres except where shown otherwise		Through Change from		M. Wong	
GOLD COAST CITY		PARKLANDS DRIVE		CTL CHADDER NORTH OF SMITH ST INTERSECTION		ENGINEERING CERTIFICATION (RP/CD)		For scheme approval status refer Drg No. 624472 (D-1 of 1)	
Drown		M. Pritchett		Checked		B. Hough		Job No. 230/P019/1	
Designed		B. Hough		Verified		P. Price		Contract No. SCHD-3121	
Design Reviews (RP/CD)				ENGINEERING CERTIFICATION (RP/CD)				Drawing No. 624476	
ENG. AREA		NAME		SIGNATURE		NO.		DATE	
CIVIL		Y. Wong		4444		09647		24/9/13	

24 OCT 2013

MEDQ

CONTROL LINE MCC1
X = 537934.261
Y = 6906763.170
Z = 20.508

Datum 18.00									
DESIGN HEIGHT			20.628	20.571	20.446	20.312	20.232	20.110	20.036
EXISTING SURFACE		20.782	20.628	20.571	20.446	20.312	20.232	20.110	20.036
OFFSETS		-7.050	-5.000	-3.500	0.000	3.500	5.000	7.050	9.316

CHAINAGE 30.000

CONTROL LINE MCC1
X = 537946.373
Y = 6906772.020
Z = 19.927

Datum 18.00									
DESIGN HEIGHT		19.955	19.947	19.941	19.927	19.928	19.847	19.813	
EXISTING SURFACE		20.523	20.335	20.195	19.937	19.928	19.847	19.813	
OFFSETS		-7.050	-5.000	-3.500	0.000	0.285	3.500	5.000	18.592

CHAINAGE 45.000

CONTROL LINE MCC1
X = 537930.121
Y = 6906760.370
Z = 20.567

Datum 18.00									
DESIGN HEIGHT		20.806	20.720	20.661	20.526	20.357	20.270	20.164	20.187
EXISTING SURFACE		20.806	20.720	20.661	20.526	20.357	20.270	20.164	20.187
OFFSETS		-7.050	-5.000	-3.500	0.000	3.500	5.000	7.050	8.196

CHAINAGE 25.000

CONTROL LINE MCC1
X = 537927.512
Y = 6906758.891
Z = 20.570

Datum 20.00									
DESIGN HEIGHT		20.860	20.855	20.759	20.688	20.552	20.364	20.278	20.164
EXISTING SURFACE		20.860	20.855	20.759	20.688	20.665	20.364	20.278	20.120
OFFSETS		-7.175	-7.050	-5.000	-3.500	0.000	3.500	5.000	7.796

CHAINAGE 22.000

CONTROL LINE MCC1
X = 537942.336
Y = 6906769.070
Z = 20.187

Datum 18.00									
DESIGN HEIGHT		20.286	20.257	20.236	20.187	20.082	20.037	19.607	
EXISTING SURFACE		20.433	20.316	20.250	20.143	20.138	19.997	19.607	
OFFSETS		-7.050	-5.000	-3.500	0.000	3.500	5.000	12.008	

CHAINAGE 40.000

CONTROL LINE MCC1
X = 537938.298
Y = 6906766.120
Z = 20.381

Datum 18.00									
DESIGN HEIGHT		20.475	20.425	20.318	20.204	20.129	19.840		
EXISTING SURFACE		20.758	20.425	20.318	20.204	20.129	19.840		
OFFSETS		-7.050	-5.000	-3.500	0.000	3.500	5.000	10.486	

CHAINAGE 35.000

Associated Job Nos		SURVEY DATA		Scales		GOLD COAST CITY		DRAWN		PARKLANDS BUS TURNAROUND FACILITY			
Auxiliary Dwg Nos		MGA94 Z56		Dimensions shown in metres except where shown otherwise		PARKLANDS DRIVE		Checked		MCC1 ANNOTATED CROSS SECTIONS			
Height		MGA94 Z56				140m NORTH OF SMITH ST INTERSECTION		Designed					
Survey		MGA94 Z56				Reference Points		Verified		ENGINEERING CERTIFICATION (PEEO)			
Books		MGA94 Z56				From start to end of job		P. Price		NO. DATE			
MGA94 Z56		MGA94 Z56				From end to following RP		Design Reviews (PEEO)		For scheme approval status refer Dwg. No. 624472 (01-1 of 1)			
MGA94 Z56		MGA94 Z56				Through Chainage from		M. Wong		Job No.			
MGA94 Z56		MGA94 Z56						Date: 24/9/13		Contract No.			
										230/P019/1			
										SCHD-3121			
										624477			
										A			
										XS-1 of			
										MRR Detail (02/11)			

CONTROL LINE MCC1
X = 537958.484
Y = 6906780.870
Z = 18.810

Datum 18.00					
DESIGN HEIGHT	18.599	18.660	18.705	18.810	18.943
EXISTING SURFACE	19.608	19.242	19.068	19.032	18.943
OFFSETS	-7.050	-5.000	-3.500	0.000	4.408
					20.652

CHAINAGE 60.000

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
24 OCT 2013
MEDQ

CONTROL LINE MCC1
X = 537954.447
Y = 6906777.920
Z = 19.210

Datum 16.00					
DESIGN HEIGHT	19.083	19.120	19.147	19.210	19.286
EXISTING SURFACE	19.903	19.842	19.627	19.346	19.286
OFFSETS	-7.050	-5.000	-3.500	0.000	4.226
					20.639

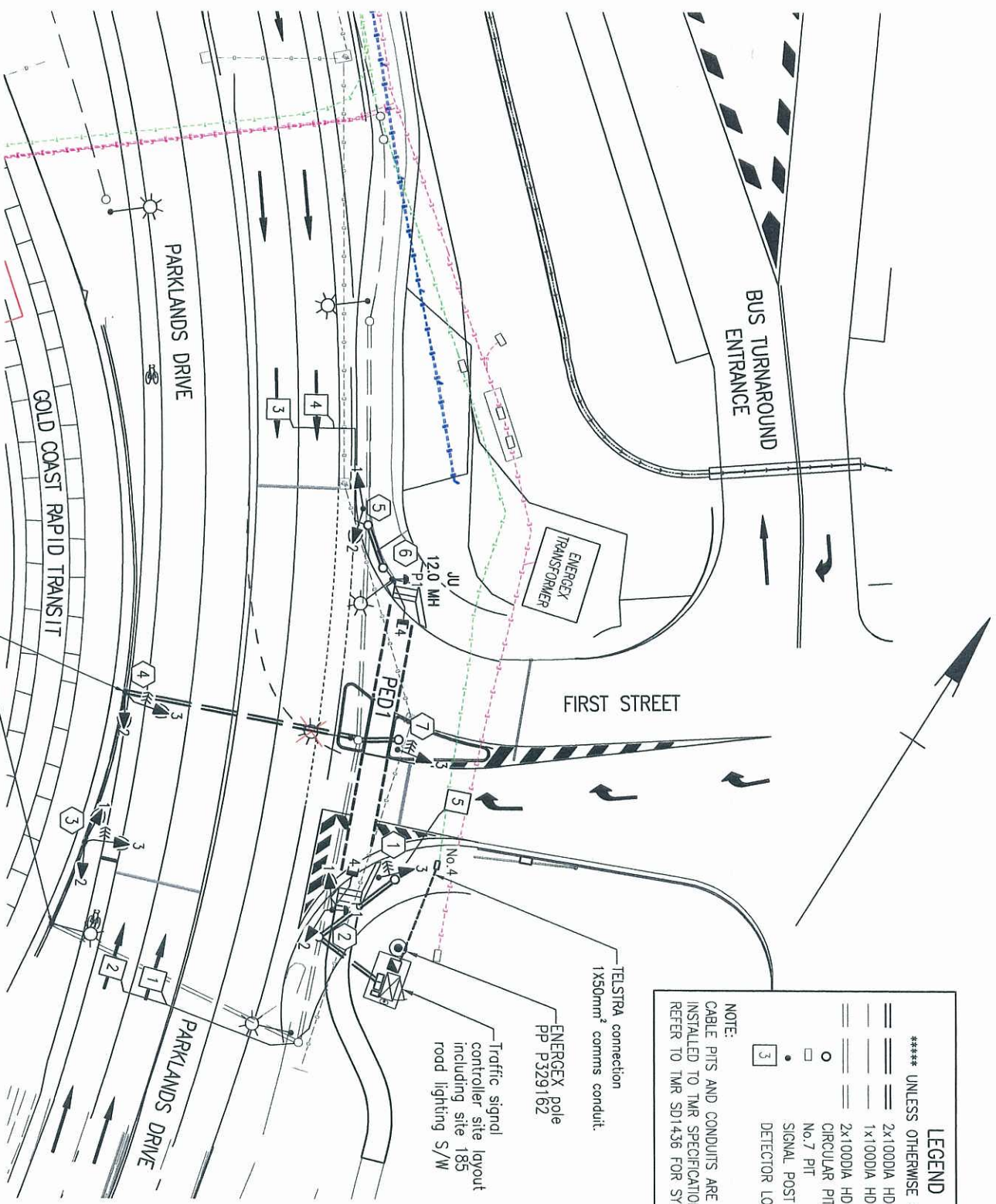
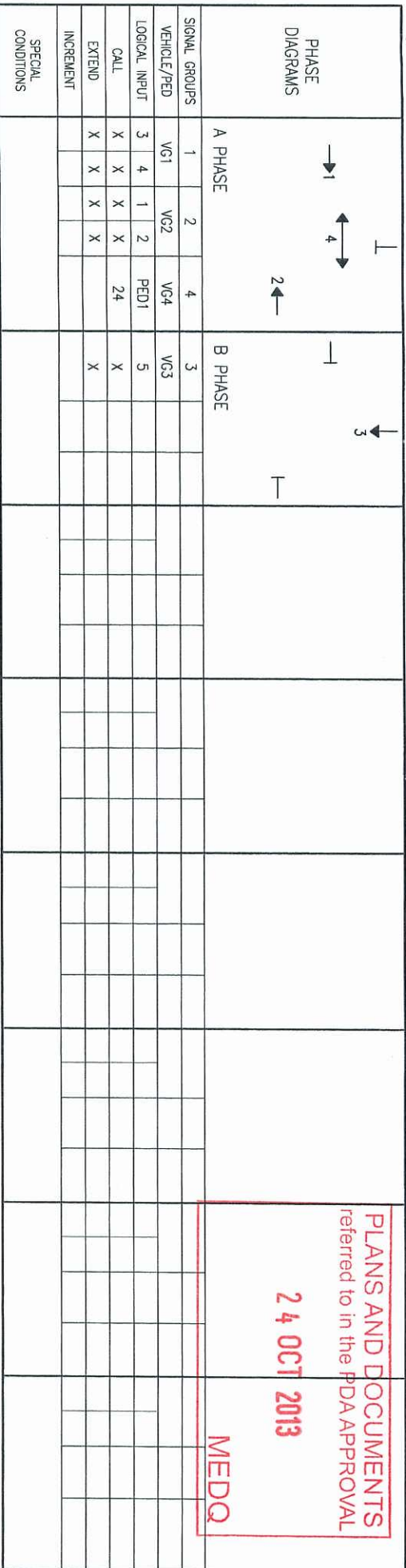
CHAINAGE 55.000

CONTROL LINE MCC1
X = 537950.410
Y = 6906774.970
Z = 19.599

Datum 18.00					
DESIGN HEIGHT	19.556	19.569	19.578	19.599	19.613
EXISTING SURFACE	20.211	20.160	20.008	19.679	19.613
OFFSETS	-7.050	-5.000	-3.500	0.000	2.442
					20.625

CHAINAGE 50.000

Associated Job Nos		SURVEY DATA		Scales		GOLD COAST CITY PARKLANDS DRIVE 140m NORTH OF SMITH ST INTERSECTION		Drawn M. Pritchett Checked B. Hough Designed B. Hough Verified P. Price		PARKLANDS BUS TURNAROUND FACILITY MCC1 ANNOTATED CROSS SECTIONS		Queensland Government The State of Queensland (Department of Transport and Main Roads) 2011 http://www.transport.qld.gov.au			
Auxiliary Dwg Nos 624472-624475 624479-624482		Horiz. Grid MGA94 756		Height AHD		Dimensions shown in metres except where shown otherwise		Design Reviews (RPED) M. Wong No. 08826 Date 24/10/13		ENGINEERING CERTIFICATION (RPED) ENG. AREA Y. Wong NAME SIGNATURE NO. DATE 09647 24/9/13		For scheme approval Dwg. No. 624472 (1) - 1 of 1		Job No. 230/P019/1 Contract No. SCHD-3121 Drawing No. 624478 Series Number XS-2 of MRR Detail (02/11)	
Revisions/Descriptions		Ref		Certification		Date		Microfilmed							
CAD FILES		E:\ROAD PROJECTS\Translink\230_P019_1 Bus Turn Parklands Design\Aeod\Final\XS-A.dwg													



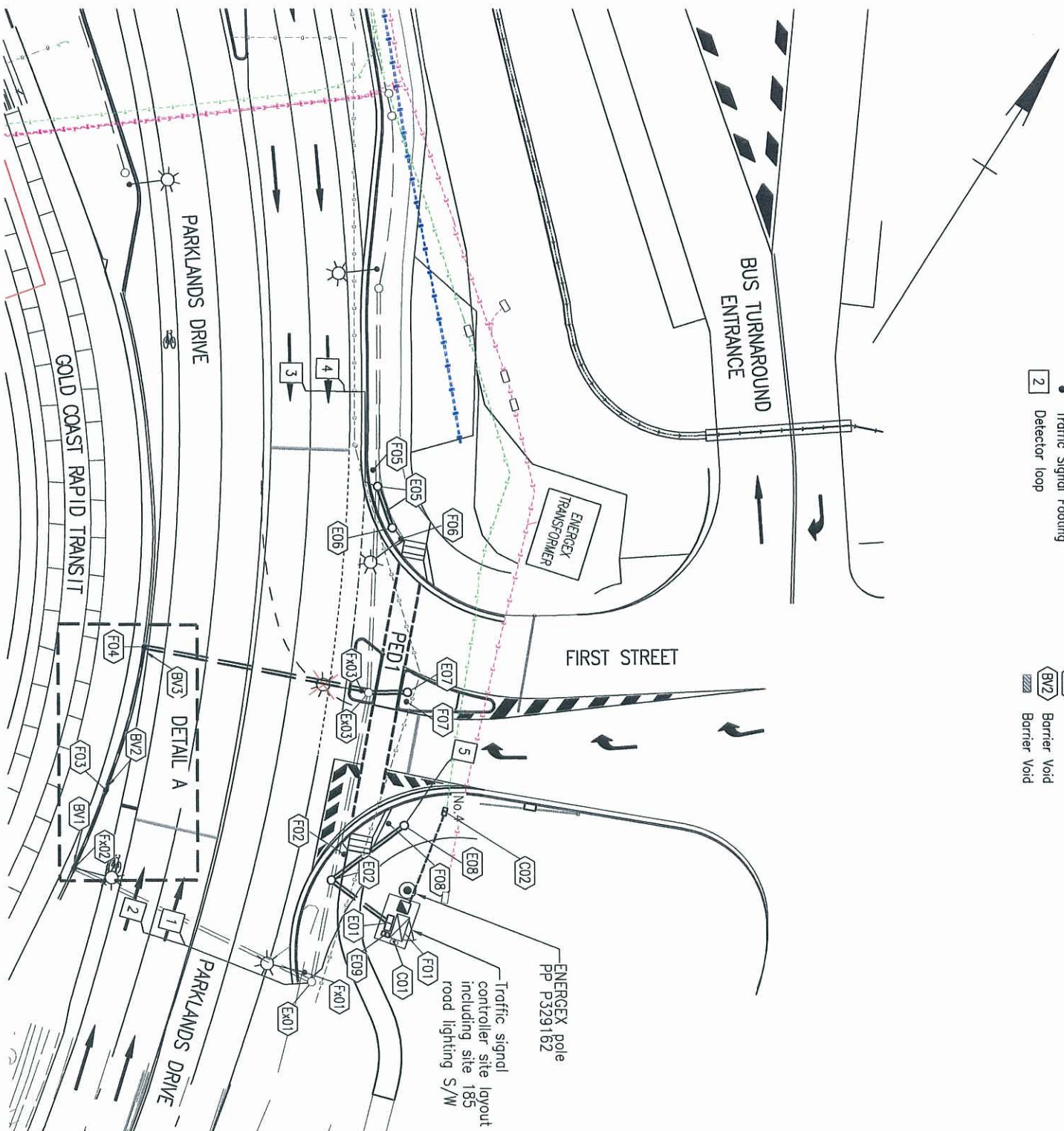
CONFLICT TABLE (X INDICATES CONFLICT)															
VEHICLE GROUPS												PED GROUPS			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	X														
2		X													
3	X	X	X												
4				X										X	
5					X										
6						X									
7							X								
8								X							
9									X						
10										X					
11											X				
12												X			
PED GROUPS	1		X										1		
	2												2		
	3												3		

FUNCTION		CONTROLLER TERMINALS							
		RUN 1		RUN 2		RUN 3		RUN 4	
		CONNECTS		CONNECTS		CONNECTS		CONNECTS	
RED	A5	1	1	1	1				
YELLOW	A4	2	2	2	2				
GREEN	A3	3	3	3	3				
RED	A8	4	4	4	4				
YELLOW	A7	5	5	5	5				
GREEN	A6	6	6	6	6				
RED	A11	7	7	7	7				
YELLOW	A10	8	8	8	8				
GREEN	A9	9	9	9	9				

PHYSICAL LABEL	CONTROLLER TERMINAL	LOGICAL INPUT	LOOP #/B CONFIGURATION	DIST TO STOP BAR
LOOP 1	P1	1	STOP LINE	6m
LOOP 2	P2	2	STOP LINE	6m
LOOP 3	P3	3	STOP LINE	6m
LOOP 4	P4	4	STOP LINE	6m
LOOP 5	P5	5	STOP LINE	4m
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21		
		22		
		23		
PBT	E5	24	AUDIO WITH CALL RECORD	

- NOTES:**
1. All lanterns to be LED (Light Emitting Diode) ALDRIDGE A1S type.
 2. Traffic signals are to be constructed to TMR standard specifications and GCCC supplementary specifications, titled 'Notice to contractors'.
 3. For conduit, pits and footing details and schedules refer to drawing number 624480.
 4. For barrier wall details refer to 624480, ARUP drawing 591921 and TMR standard drawings 1395 & 1461.
 5. Controller to operate on standard TRAF version 1.4.1 software.
- 5 metres of stock to be coiled up in barrier void for stations 3 and 4.

[illegible][illegible]



PLANS AND DOCUMENTS

24 OCT 2013

SYMBOL LEGEND

- | | |
|--|---------------------------|
| | New UPVC conduit |
| | Existing conduit |
| | Traffic signal controller |
| | New Circular pit |
| | Existing Rectangular pit |
| | Top Mounted Switchboard |
| | Energyx Power Pole |
| | Traffic Signal Footing |
| | Detector loop |
-
- | | |
|--|-----------------------|
| | Road lighting station |
| | Road lighting remove |
| | Footing |
| | New Pit |
| | Existing Pit |
| | Existing footing/pole |
| | Comms Pit |
| | Barrier Void |
| | Barrier Void |

SERVICE LEGEND

Underground Services (DBYD)

- Telecommunications
Stormwater
Water
Electricity
Sewer

SERVICE LOCATIONS AND CONFLICTS

1. The existing services information shown on this plan is as supplied by TMR and various utility service authorities.
2. The information is not intended to provide the contractor with complete or accurate information concerning the location and extent of utility services.
3. The contractor is to make enquiries of the service authorities as to the location, depth and extent of utility services prior to commencement of any work on the site.
4. No work is to be carried out within 3 metres of any existing services, without prior recorded consultation with the relevant service authority.
5. The contractor is to immediately advise the principal and relevant service authority, when an existing underground utility service not previously identified, is found during construction, a hold time of two days is to be allowed, for the service authority to witness and document.
6. The contractor will be solely responsible for any damage incurred to existing utility services as a result of the execution of work under the contract.

BARRIER VOID NOTES

1. Refer to IMR Standard Drawing 1469 for fabrication and installation details.
2. Cover plate opening to be modified to accommodate traffic signal pedestal. 10mm+ gap to be insured between pedestal and cover plate.

FOOTING SCHEDULE

FOOTING SCHEDULE				
FOOTING NO.	COORDINATES		FOOTING TYPE	REMARKS
	EASTINGS	NORTHING		
F01	537932.127	6906737.950	PRE-FABRICATED	INSTALL NEW
F02	537924.404	6906740.534	600 /350 PCD 4.1	INSTALL NEW
F03	537903.474	6906733.974	600 /350 PCD 4.1	INSTALL NEW
F04	537899.491	6906746.685	600 /350 PCD 4.1	INSTALL NEW
F05	537908.258	6906771.079	600 /350 PCD 4.1	INSTALL NEW
F06	537913.553	6906767.235	2000 /350 PCD JU	INSTALL NEW
F07	537921.813	6906755.076	600 /350 PCD 4.1	INSTALL NEW
F08	537926.274	6906745.029	600 /350 PCD 4.1	INSTALL NEW
Fx01	537927.127	6906729.654	2000 /350 PCD R/L	EXTING
Fx02	537904.818	6906726.553	2000 /350 PCD R/L	EXTING
Fx03	537917.927	6906753.786	2000 /350 PCD R/L	REMOVE

- PCD Pitch Centre Diameter. JU = Joint Use, R/L = Road Light

ELECTRICAL PIT SCHEDULE

CONDUIT SCHEDULE								
PIT NO.	ELECTRICAL			COMMS		SURFACE	LENGTH (m)	COMMENTS
	FROM	TO	No	SIZE	No			
E01	E02	2	100mm			EARTH	6	INSTALL NEW
E02	E08	2	100mm			EARTH	10	INSTALL NEW
E01	E01	2	100mm			EARTH	10	EXISTING
E01	BY1	2	100mm			ROAD	24	EXISTING
E02	E03	2	100mm			ROAD	17	EXISTING
E03	E05	2	100mm			ROAD	18	EXISTING
E03	E07	2	100mm			EARTH	4	INSTALL NEW
E05	E06	2	100mm			EARTH	5	INSTALL NEW
C01	C02	-	-			EARTH	13	INSTALL NEW
BY1	BY2	2	100mm			CONCRETE	7	EXISTING
BY2	BY3	2	100mm			CONCRETE	13	EXISTING
BY3	E03	2	100mm			ROAD	20	INSTALL NEW

* BV = Barrier Void, refer TMR Standard Drawing No.1469 and ARUP drawing 591921.

E01	E0
-----	----

ELECTRICAL PIT SCHEDULE				
PIT No.	COORDINATES		TYPE	REMARKS
	EASTING	NORTHING		
E01	537931.108	6906/37.423	No.8	INSTALL. NEW
E02	537924.699	6906/37.936	CIRCULAR	INSTALL. NEW
E05	537909.349	6906/107.078	CIRCULAR	INSTALL. NEW
E06	537912.408	6906/67.655	CIRCULAR	INSTALL. NEW
E07	537921.442	6906/55.849	CIRCULAR	INSTALL. NEW
E08	537927.534	6906/45.629	CIRCULAR	INSTALL. NEW
E09	537931.376	6906/36.405	No.3. EARTH	INSTALL. NEW
E01	537928.094	6906/79.288	CIRCULAR	EXISTING
E03	537918.555	6906/53.964	CIRCULAR	EXISTING
C01	537932.395	6906/36.230	TYPE J	INSTALL. NEW
C02	537929.923	6906/748.623	No.4	INSTALL. NEW

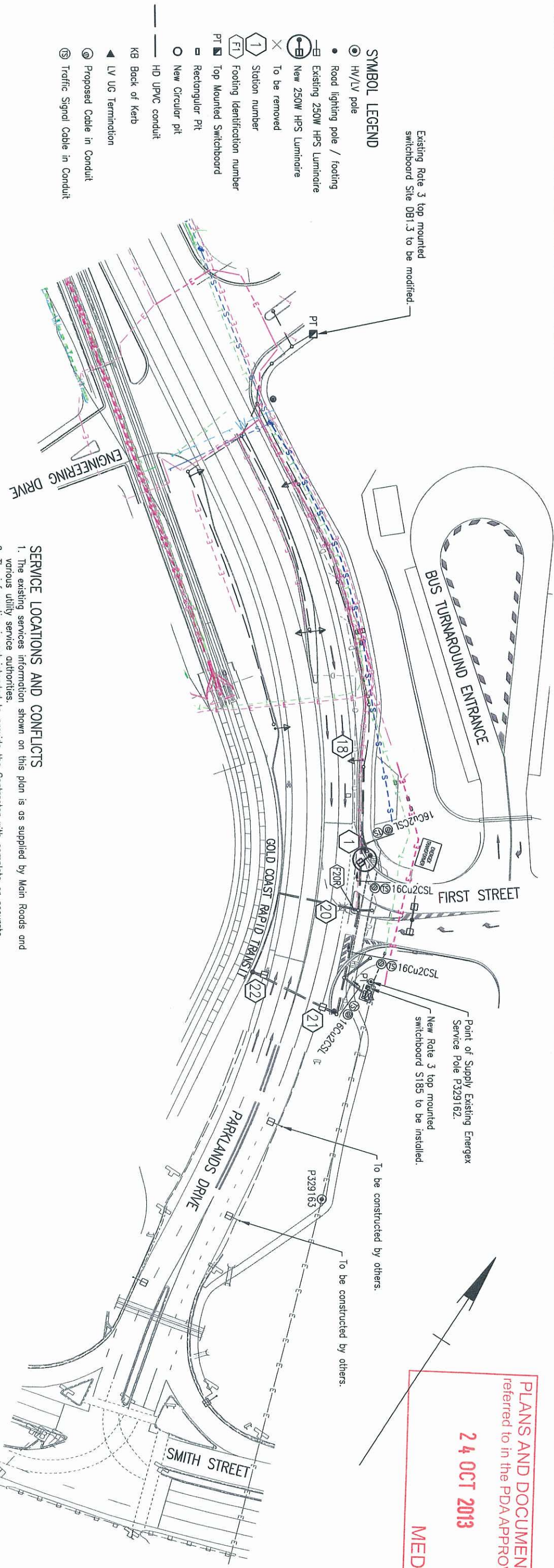
**CITY OF GOLD COAST
PARKLANDS DRIVE
SECTION WITH FIRST**

	Revisions / Descriptions	Rat	REQD	Certification	Date	Microfilmed	Associated Job Nos 230/GCPT/006	SURVEY DATA	X GDA	Scales 0 2 4 6 8 10m	CITY OF GOLD COAST PARKLANDS DRIVE INTERSECTION WITH FIRST STREET	Drown L.GIBSON Designed	TRAFFIC SIGNAL INSTALLATION OPERATIONS AND ELECTRICAL CONDUIT, PITS AND FOOTINGS	Site Number M5587 UBR MopzB MIO
A	Original Issue A3						Auxiliary Dwg Nos 624472 to 624481	Horiz. Grid MGAS4 Zone64	Height AHD Derived	Dimensions shown in metres except where shown otherwise	Reference Points Preceding RP Dist. to start of job (km) From start to end of job From end to following RP Following RP	For scheme approval status refer Drg. No.(of) ENG. AREA Electrical Andrew Causley	ENGINEERING CERTIFICATION (RECD) SIGNATURE NO. DATE 08/51 29/08/2013	Contract No. SCHD3121 Drawing No. 624480 A Series Number 2 of 2
B	PLANS	G:\ROAD PROJECTS\Translink\230_P019_1 Bus Turn Parklands Design\Misc\Final m5587_624479_624480.dwg								Through Changebar from 467.00kmm – 569.00kmm	The State of Queensland Government (Department of Transport and Main Roads) 2011 http://creativecommons.org/licenses/by/2.0/nl			MRT Detail (01/13)

Conduit entry into concrete barrier wall.

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MEDQ



SYMBOL LEGEND

- HV/LV pole
- Road lighting pole / footing
- ⊖ Existing 250W HPS Luminaire
- ⊖ New 250W HPS Luminaire
- ✕ To be removed
- 1 Station number
- FT Footing Identification number
- PT Top Mounted Switchboard
- ▣ Rectangular Pit
- New Circular pit
- HD UPVC conduit
- ▲ KB Back of Kerb
- ▲ LV UG Termination
- Ⓢ Proposed Cable in Conduit
- Ⓢ Traffic Signal Cable in Conduit

SERVICE LOCATIONS AND CONFLICTS

- The existing services information shown on this plan is as supplied by Main Roads and various utility service authorities.
- The information is not intended to provide the Contractor with complete or accurate information concerning the location and extent of utility services.
- The Contractor is to make enquiries of the service authorities as to the location, depth and extent of utility services prior to commencement of any work on the site.
- No work is to be carried out within 3 metres of any existing services, without prior recorded consultation with the relevant service authority.
- The Contractor is to immediately advise the Principal and relevant service authority, when an existing underground utility service not previously identified, is found during construction. A hold time of two days is to be allowed for the service authority to witness and document.
- The Contractor will be solely responsible for any damage incurred to existing utility services as a result of the execution of work under the Contract.

NOTES:

- The Contractor shall determine the final placement of the footings as close as possible to the coordinates as indicated and in consultation with Superintendent.
- 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.
- Road lighting design to AS/NZS 1158.1:2005 Section 3.5.2.
- Joint use traffic signal pole and footing to be installed as part of traffic signal installation works. For further details, refer drawing numbers 624479 and 624480.

FOOTING SCHEDULE

FOOTING No.	EASTING	NORTHING	FOOTING TYPE	COMMENTS
F20R	—	—	350 PCD BPM	REMOVE FOOTING

PCD – Pitch Centre Diameter

SERVICES LEGEND

- Aboveground Services
 - Electricity
 - Underground Services
 - Electricity
 - Telecommunications
 - Water Main
 - Sewer Main
 - Underground Services (DBXD)
 - Electricity
 - Telesro
 - Sewer
 - Water

ROAD LIGHTING SCHEDULE

ROAD LIGHTING SCHEDULE																			
LOCATION	STN No	SITE ID (POLE No)	POLE OR COMPONENTS					LUMINAIRE					OUTREACH BRACKET			MOUNT HEIGHT (m)	REMARKS		
			COMP ID	EXIST (m)	REC (m)	ERECT (m)	ALIGN (m)	COMP ID	EXIST	RECOVER		ERECT	CUST	EXIST (m)	REC (m)			ERECT (m)	
PARKLANDS DRIVE	18	W1830287	P01	10.0BPM			----	SL1	H400AL3					3.0			12.0	EXISTING TO REMAIN	
	1	W1830289	P01	10.0 JU*			----	SL1				S250AM3	MRD			4.5	12.0	INSTALL NEW OUTREACH AND LUMINAIRE*	
	20	W1830289	P01	10.0BPM	10.0BPM		----	SL1	S250AL3	S250AL3	GCOC			3.0	3.0		12.0	REMOVE EXISTING POLE, OUTREACH AND LUMINAIRE	
	21	W1830290	P01	10.0BPM			----	SL1	S250AL3					GCOC	3.0			12.0	EXISTING TO REMAIN
	22	W1830291	P01	10.0BPM			----	SL1	S250AL3					GCOC	3.0			12.0	EXISTING TO REMAIN

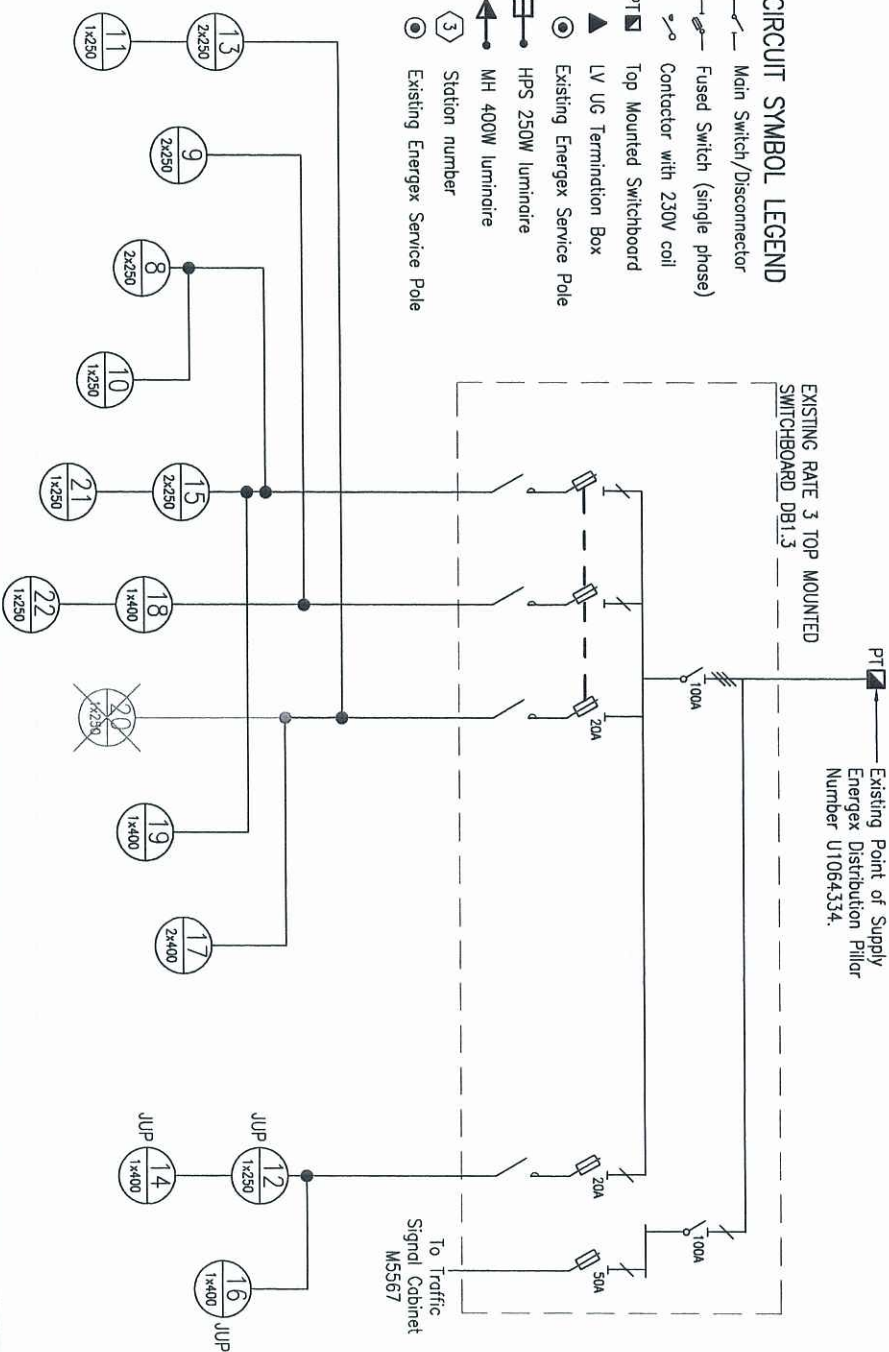
*Refer Note 5

SHEET 1 OF 2	SITE 185
ENERGEX PROJECT NUMBER: S2350165	
PROJECT SUBURB: SOUTHPORT	

Revisions/Descriptions	Ref	REQ	Certification	Date	Microfilmed	Associated Job Nos	230/CERT/006	SURVEY DATA	GD4	Scales	0 5 10 15 20m	CITY OF GOLD COAST PARKLANDS DRIVE INTERSECTION WITH FIRST STREET	Drawn C.MOJICK Designed C.MOJICK	BUS TURNAROUND FACILITY RATE 3 ROAD LIGHTING SHEET 1 OF 2	ENGINEERING CERTIFICATION (RECQ)	NAME	SIGNATURE	NO.	DATE	08/51	29/8/13	QUEENSLAND GOVERNMENT	Job No.	230/P019/001	Contract No.	SCHD3121	Drawing No.	624481	Series Number	1 of 2		
A Original Issue A3																																
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Existing Point of Supply
Energeux Distribution Pillar
Number U1064334.

EXISTING RATE 3 TOP MOUNTED
SWITCHBOARD DB1.3

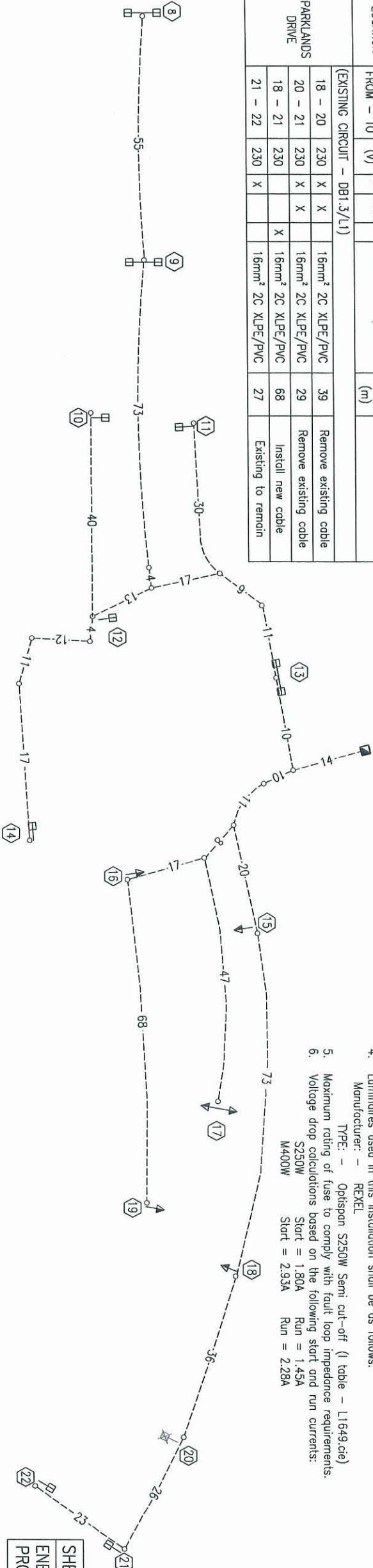


CIRCUIT SCHEDULE – SITE DB1.3

LOCATION	POWER SUPPLY NUMBER	SWITCHBOARD NUMBER	PHASE	CIRCUIT NUMBER	LUMINAIRE STATION NUMBER	LOAD	START CURRENT (A)	RUN CURRENT (A)	FUSE RATING (A)	MINIMUM CONDUCTOR SIZE	REMARKS
PARKLANDS DRIVE U1064334	DB1.3		A	DB1.3/L1	8, 10, 15, 19, 21	2 x 250W HPS	11.26	8.91	20	16mm ² 2C XLPE/PVC	Existing circuit to remain
			A	DB1.3/L2	9, 18, 22	2 x 400W MH	6.53	5.18	20	16mm ² 2C XLPE/PVC	Existing circuit to remain
			A	DB1.3/L3	11, 13, 17	1 x 250W HPS	5.4	6.84	20	16mm ² 2C XLPE/PVC	Existing modified circuit
			A	DB1.3/L4	12, 14, 16	3 x 250W HPS	5.4	6.84	20	16mm ² 2C XLPE/PVC	Existing circuit to remain
			A	DB1.3/L4	12, 14, 16	3 x 250W HPS	5.4	6.84	20	16mm ² 2C XLPE/PVC	Existing circuit to remain

UNDERGROUND CABLE SCHEDULE – SITE DB1.3

LOCATION	STATIONS FROM – TO	VOLTS (V)	EX	REC	IN	CABLE SIZE/TYPE	TOTAL LENGTH (m)	REMARKS
PARKLANDS DRIVE	(EXISTING CIRCUIT – DB1.3/L1)	18 – 20	X	X		16mm ² 2C XLPE/PVC	39	Remove existing cable
		20 – 21	X	X		16mm ² 2C XLPE/PVC	29	Remove existing cable
		18 – 21	X		X	16mm ² 2C XLPE/PVC	68	Install new cable
		21 – 22	X			16mm ² 2C XLPE/PVC	27	Existing to remain
		21 – 22	X			16mm ² 2C XLPE/PVC	27	Existing to remain



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
24 OCT 2013
MEDQ

UNDERGROUND CABLE SCHEDULE – SITE 185

LOCATION	STATIONS FROM – TO	VOLTS (V)	EX	REC	IN	CABLE SIZE/TYPE	TOTAL LENGTH (m)	REMARKS
PARKLANDS DRIVE	S185 – 1	230	X	X	X	16mm ² 2C XLPE/PVC	62	Install new mains cable
PARKLANDS DRIVE	S185 – 1	230	X	X	X	16mm ² 2C XLPE/PVC	7	Install new cable

EQUIPMENT SCHEDULE – SITE 185

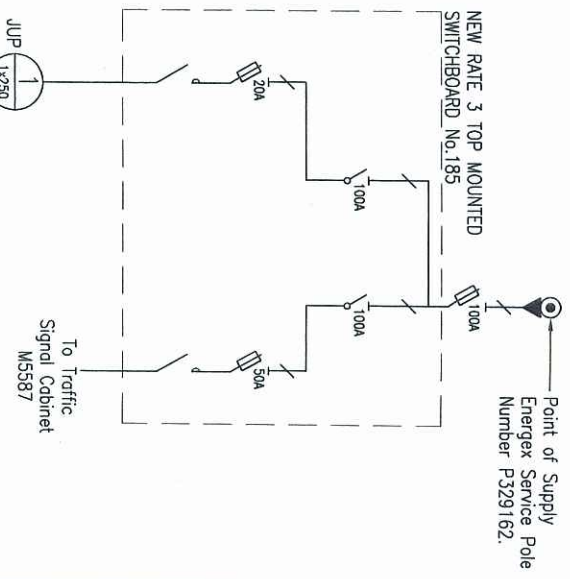
LOCATION	SITE NUMBER	EX	REC	IN	SITE AND DESCRIPTION	QUANTITY	REMARKS
PARKLANDS DRIVE	S185	X	X	X	Top mounted switchboard	1	Install new top mounted switchboard
PARKLANDS DRIVE	S185	X	X	X	Rate 3 consumers mains connection	1	Install new mains connection

CIRCUIT SCHEDULE – SITE 185

LOCATION	POWER SUPPLY NUMBER	SWITCHBOARD NUMBER	PHASE	CIRCUIT NUMBER	LUMINAIRE STATION NUMBER	LOAD	START CURRENT (A)	RUN CURRENT (A)	FUSE RATING (A)	MINIMUM CONDUCTOR SIZE	REMARKS
PARKLANDS DRIVE	P329162	S185	A	S185 11.1	1	1 x 250W HPS	1.8	1.45	20	16mm ² 2C XLPE/PVC	New circuit
PARKLANDS DRIVE	P329162	S185	A	S185 11.1	M5567	TRAFFIC SIGNALS	-	1.2	50	16mm ² 2C XLPE/PVC	New circuit

CIRCUIT NOTES:

- All calculations based on 230V supply.
- Fault loop impedance calculated using the following:
 - 5 sec disconnect time for 20 Amp fuse protected, pit to pit, underground circuit cable;
 - 0.4 sec disconnect time for 10 Amp fuse protected, loop in cable, from pit/kit to pole terminal panel;
 - Din Rail mounted multi purpose fuse switch;
 - Trip current, Ia in accordance with AS/NZS3000:2007.
 - LV distribution circuit originating from pole mounted transformer SP126074.
 - All new luminaires to be Rate 3 – min 0.85 power factor corrected.
 - Luminaires used in this installation shall be as follows:
- TYPE: – Optispan S250W Semi cut-off (1 table – L1649.cie)
- Maximum rating of fuse to comply with fault loop impedance requirements.
- Voltage drop calculations based on the following start and run currents:
S250W Start = 1.80A Run = 1.45A
M400W Start = 2.93A Run = 2.28A



SHEET 2 OF 2 SITE 185

ENERGEUX PROJECT NUMBER: S2350165
PROJECT SUBURB: SOUTHPORT

Site Number
S185

Job No.
230/P019/001

Contract No.
SCHD3121

Drawing No.
624482

Series Number 2 of 2