

ROAD DESIGN PRESENTATION STANDARDS

DP011 TRAFFIC SIGNALS

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DEPARTMENT FOR
INFRASTRUCTURE
AND TRANSPORT



Government of South Australia
Department for Infrastructure
and Transport

Document Amendment Record

Rev	Change Description	Date	Author	Checked	Authorised
1	Initial Issue	23 December 2011	Natasha Stone Alison Freer	Jeremy Champion	Noel O'Callaghan
2	Signal pole numbers relocated, pole schedule relocated to Conduit drawing	17 July 2012	Natasha Stone Alison Freer	Greg Gurner	Noel O'Callaghan
3	Scale of example drawing changed from 300 to 200	13 September 2012	Natasha Stone Alison Freer	Greg Gurner	Noel O'Callaghan
4	Radius removed from pedestrian cutouts	15 February 2013	Natasha Stone	Greg Gurner	Noel O'Callaghan
5	Example Drawing updated	20 August 2021	Disha Nayak	Yanyan Xiao	Collin Boulden

Document Management

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To be read in conjunction with CAD Manual & Presentation Guidelines DP001 (Master Specification PC-EDM7)

DP011 TRAFFIC SIGNALS

1 Purpose

- 1.1 The 'Traffic Signals' drawing is used to show details of the traffic signal design & approved traffic control devices at signalised locations.
- 1.2 For examples of this standard see attached drawings.

Content

- 1.3 Layers to be shown as per the DIT Layer Matrix (DP001)
- 1.4 The following CAD entities are required:
 - a) All information in DP001 – General Requirements.
 - b) Symbols showing signal poles. (layer = D-ELEC-Signal Pole , block provided)
 - c) Text identifying signal poles.(layer = D-ELEC-Signal Pole ID number, Block provided)
 - d) Symbols showing signal lanterns. (layer = D-ELEC-Signal Lanterns, block provided)
 - e) Text identifying signal group. (layer = D-ELEC-Signal Group ID Label)(Paper Space text height=3.5mm)
 - f) Symbols showing detectors. (layer = D-ELEC-Signal Loop Detector, block provided)
 - g) Text identifying detector no. (layer = D-ELEC-Signal Loop detector ID no)
 - h) Schedule showing "Sign details". (layer = D-ENHA-Schedules)
 - i) Legend showing Phase Diagram.(layer = D-ENHA-Legends)
 - j) Text showing Signal Number (TS XXX) in title block.
- 1.5 Survey on the Traffic Signals Drawing shall be trimmed (i.e. survey detail should only be shown outside the extents of the design)

NOTES:

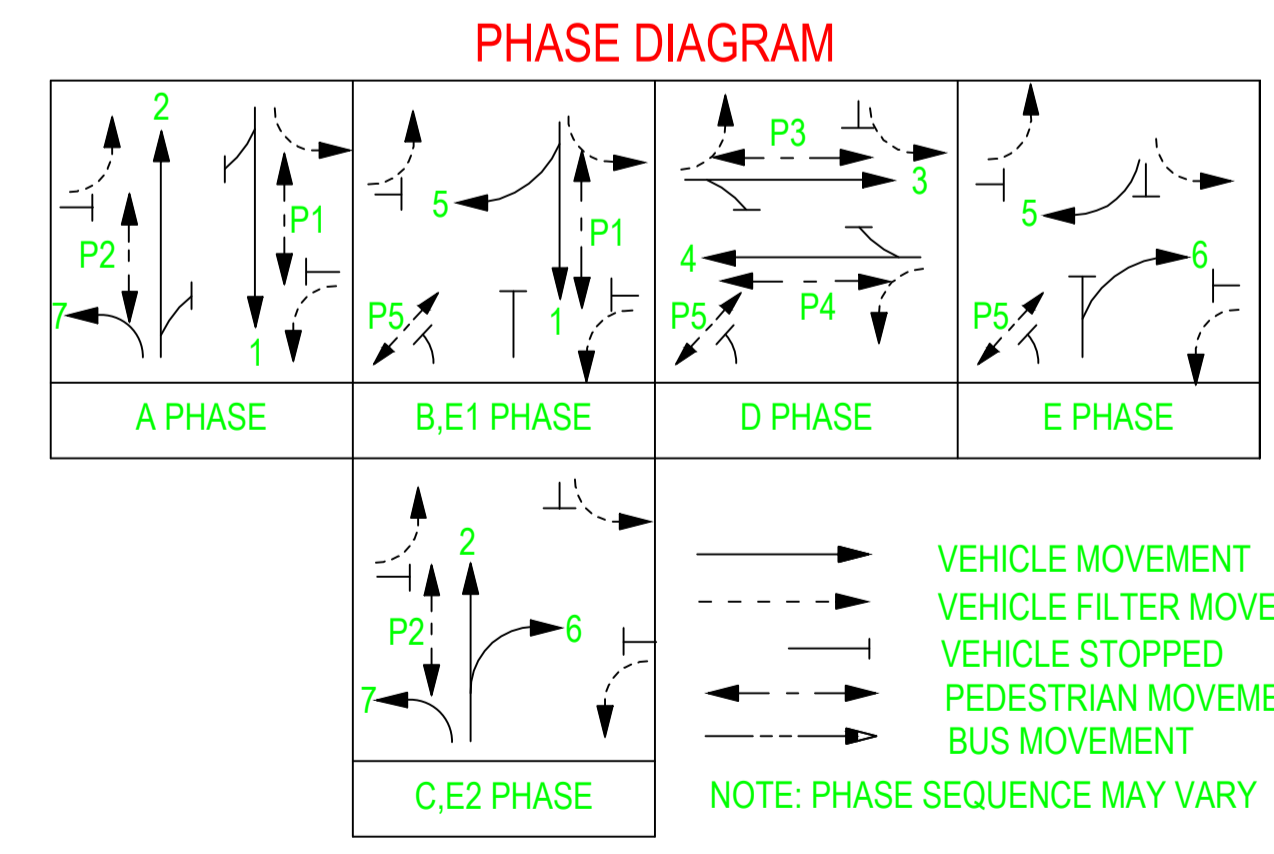
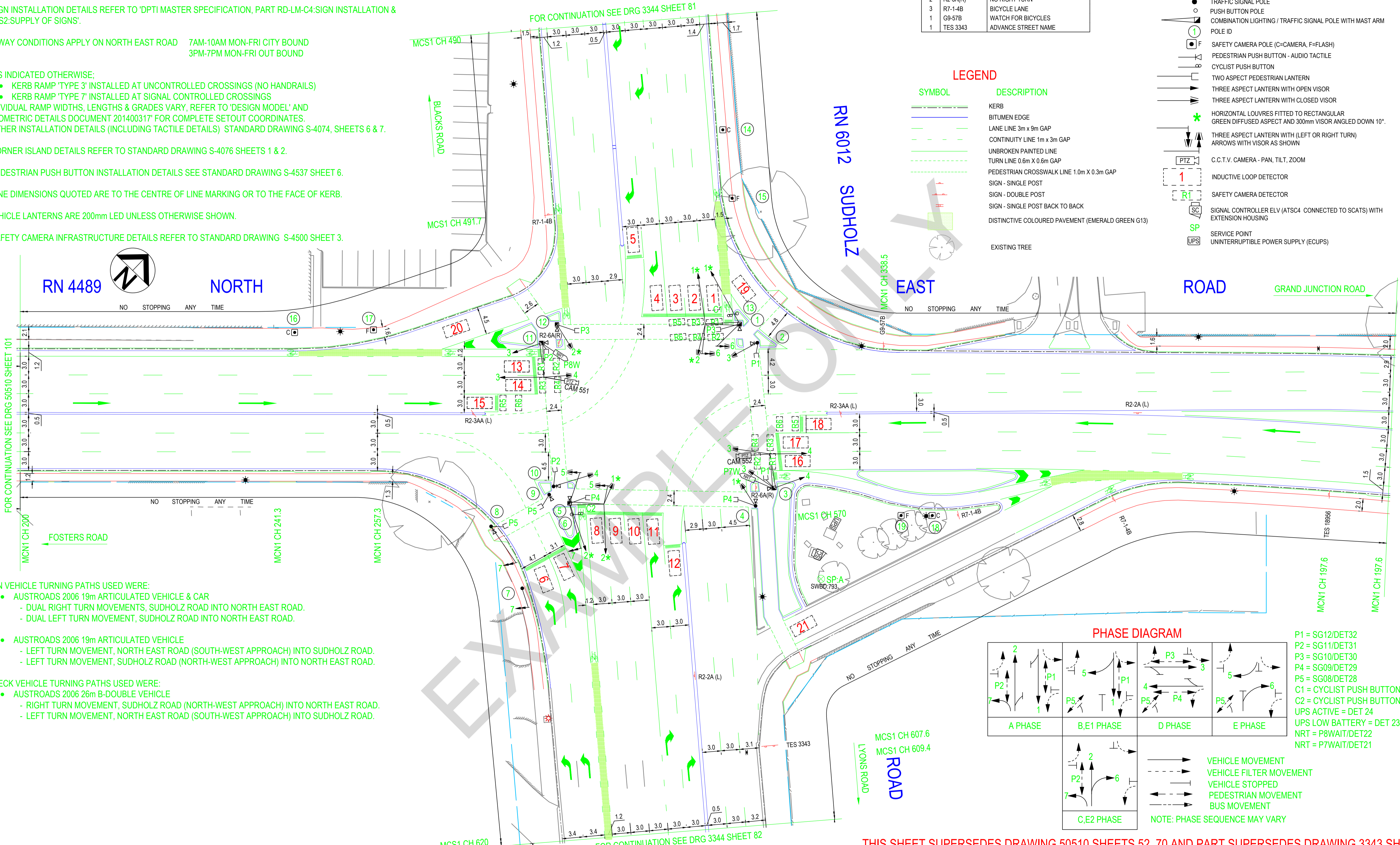
1. TRAFFIC CONTROL DETAILS AND RETROREFLECTIVE RAISED PAVEMENT MARKERS INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARD 'AS 1742 MANUAL OF TRAFFIC CONTROL DEVICES' AS MODIFIED BY DPTI'S CODE OF TECHNICAL REQUIREMENTS, AND THE DPTI 'PAVEMENT MARKING MANUAL'.
2. FOR SIGN INSTALLATION DETAILS REFER TO 'DPTI MASTER SPECIFICATION, PART RD-LM-C4:SIGN INSTALLATION & RD-LM-S2:SUPPLY OF SIGNS'.
3. CLEARWAY CONDITIONS APPLY ON NORTH EAST ROAD 7AM-10AM MON-FRI CITY BOUND 3PM-7PM MON-FRI OUT BOUND
4. UNLESS INDICATED OTHERWISE:
 - KERB RAMP 'TYPE 3' INSTALLED AT UNCONTROLLED CROSSINGS (NO HANDRAILS)
 - KERB RAMP 'TYPE 7' INSTALLED AT SIGNAL CONTROLLED CROSSINGS
 - INDIVIDUAL RAMP WIDTHS, LENGTHS & GRADES VARY, REFER TO 'DESIGN MODEL' AND 'GEOMETRIC DETAILS DOCUMENT 201400317' FOR COMPLETE SETOUT COORDINATES.
 - FOR OTHER INSTALLATION DETAILS (INCLUDING TACTILE DETAILS) STANDARD DRAWING S-4074, SHEETS 6 & 7.
5. FOR CORNER ISLAND DETAILS REFER TO STANDARD DRAWING S-4076 SHEETS 1 & 2.
6. FOR PEDESTRIAN PUSH BUTTON INSTALLATION DETAILS SEE STANDARD DRAWING S-4537 SHEET 6.
7. ALL LANE DIMENSIONS QUOTED ARE TO THE CENTRE OF LINE MARKING OR TO THE FACE OF KERB.
8. ALL VEHICLE LANTERNS ARE 200mm LED UNLESS OTHERWISE SHOWN.
9. FOR SAFETY CAMERA INFRASTRUCTURE DETAILS REFER TO STANDARD DRAWING S-4500 SHEET 3.

10. DESIGN VEHICLE TURNING PATHS USED WERE:
 - AUSTROADS 2006 19m ARTICULATED VEHICLE & CAR
 - DUAL RIGHT TURN MOVEMENTS, SUDHOLZ ROAD INTO NORTH EAST ROAD.
 - DUAL LEFT TURN MOVEMENT, SUDHOLZ ROAD INTO NORTH EAST ROAD.
 - AUSTROADS 2006 19m ARTICULATED VEHICLE
 - LEFT TURN MOVEMENT, NORTH EAST ROAD (SOUTH-WEST APPROACH) INTO SUDHOLZ ROAD.
 - LEFT TURN MOVEMENT, SUDHOLZ ROAD (NORTH-WEST APPROACH) INTO NORTH EAST ROAD.
- CHECK VEHICLE TURNING PATHS USED WERE:
 - AUSTROADS 2006 26m B-DOUBLE VEHICLE
 - RIGHT TURN MOVEMENT, SUDHOLZ ROAD (NORTH-WEST APPROACH) INTO NORTH EAST ROAD.
 - LEFT TURN MOVEMENT, NORTH EAST ROAD (SOUTH-WEST APPROACH) INTO SUDHOLZ ROAD.

SIGN DETAILS		
No.	CODE	DESCRIPTION
1	R2-2A(L)	ONE WAY
1	R2-3AA(L)	KEEP LEFT
2	R2-6A(R)	NO RIGHT TURN
3	R7-1-4B	BICYCLE LANE
1	G9-57B	WATCH FOR BICYCLES
1	TES 3343	ADVANCE STREET NAME

LEGEND	
SYMBOL	DESCRIPTION
	KERB
	BITUMEN EDGE
	LANE LINE 3m x 9m GAP
	CONTINUITY LINE 1m x 3m GAP
	UNBROKEN PAINTED LINE
	TURN LINE 0.6m X 0.6m GAP
	PEDESTRIAN CROSSWALK LINE 1.0m X 0.3m GAP
	SIGN - SINGLE POST
	SIGN - DOUBLE POST
	SIGN - SINGLE POST BACK TO BACK
	DISTINCTIVE COLOURED PAVEMENT (EMERALD GREEN G13)
	EXISTING TREE

LEGEND	
SYMBOL	DESCRIPTION
	STOBIE POLE
	LIGHT POLE
	TRAFFIC SIGNAL POLE
	PUSH BUTTON POLE
	COMBINATION LIGHTING / TRAFFIC SIGNAL POLE WITH MAST ARM
	POLE ID
	SAFETY CAMERA POLE (C=CAMERA, F=FLASH)
	PEDESTRIAN PUSH BUTTON - AUDIO TACTILE
	CYCLIST PUSH BUTTON
	TWO ASPECT PEDESTRIAN LANTERN
	THREE ASPECT LANTERN WITH OPEN VISOR
	THREE ASPECT LANTERN WITH CLOSED VISOR
	HORIZONTAL LOUVRES FITTED TO RECTANGULAR GREEN DIFFUSED ASPECT AND 300mm VISOR ANGLED DOWN 10°.
	THREE ASPECT LANTERN WITH (LEFT OR RIGHT TURN) ARROWS WITH VISOR AS SHOWN
	C.C.T.V. CAMERA - PAN, TILT, ZOOM
	INDUCTIVE LOOP DETECTOR
	SAFETY CAMERA DETECTOR
	SIGNAL CONTROLLER ELV (ATSC4 CONNECTED TO SCATS) WITH EXTENSION HOUSING
	SERVICE POINT
	UNINTERRUPTIBLE POWER SUPPLY (ECUPS)



- P1 = SG12/DET32
- P2 = SG11/DET31
- P3 = SG10/DET30
- P4 = SG09/DET29
- P5 = SG08/DET28
- C1 = CYCLIST PUSH BUTTON / DET27
- C2 = CYCLIST PUSH BUTTON / DET26
- UPS ACTIVE = DET 24
- UPS LOW BATTERY = DET 23
- NRT = P8WAIT/DET22
- NRT = P7WAIT/DET21

THIS SHEET SUPERSEDES DRAWING 50510 SHEETS 52, 70 AND PART SUPERSEDES DRAWING 3343 SHEET 57

INDEX SHEET REFERENCE: 50510 SHEET 80				PROJECT No.: 18769	FILE No.: 2013/16786	ROAD No. 4489 / 6012		SIGNAL No.: TS206
SHEET LOCALITY				DESIGN No.: 201400317	SURVEY No.: 201400138	NORTH EAST ROAD		
		Government of South Australia		PROJECT START ROAD RUNNING DISTANCE: MCN1 CH 000 = 5.53km (RHC)		INTERSECTION SUDHOLZ ROAD; GILLES PLAINS		
		Department for Infrastructure and Transport		PROJECT END ROAD RUNNING DISTANCE: MCN1 CH 600 = 6.1km (RHC)		MCN1 CH 200 - CH 420		
				DESIGNED: ANC	DRAFTED: ANC	ACCEPTED FOR USE: A.PORCARO	ACCEPTANCE FORM KNET No.: 8138693	DRAWING No.: 50510
		ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE		CHECKED: RW	CHECKED: JDEC	DATE: 25/11/2015	IN ACCORDANCE WITH DP013	SHEET No.: 102
						SHEET LATITUDE -34.857199		SHEET LONGITUDE 138.655499