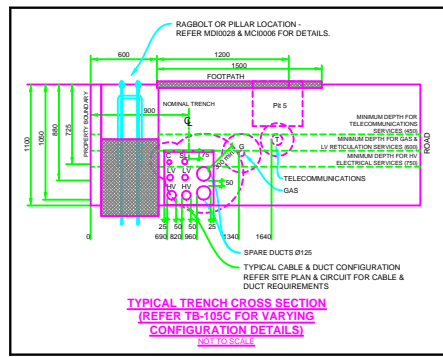


Feature ID	Quality Level	W A E Survey	Coordinates Table URS 21393	Cover	Notes	Easting	Northing	AHD Height
1	A	Duct End	0.91	1.14	Trench	286902.07	6281291.524	59.54
2	A	Duct End	0.90	1.26	Trench	286929.36	6281301.782	59.29
3	A	Duct End	0.94	1.70	Trench	286774.964	6281450.228	42.16
4	A	Duct End	0.96	1.31	Trench	286791.748	6281463.07	42.36
5	A	Duct End	0.90	1.49	Trench	286729.28	6281522.524	39.01
6	A	Duct End	0.94	1.33	Trench	286746.959	6281531.113	39.08
7	A	Duct End	0.90	1.49	Trench	286686.552	6281663.679	40.23
8	A	Duct End	0.95	1.81	Trench	286704.758	6281669.57	39.77
9	A	Duct End	0.96	1.54	Trench	286644.037	6281733.78	43.59
10	A	Duct End	0.96	1.34	Trench	286658.46	6281746.311	43.77
11	A	Duct End	0.93	1.52	Trench	286597.08	6281777.761	47.01
12	A	Duct End	0.97	1.29	Trench	286597.08	6281792.908	47.26
13	A	Duct End	0.92	1.25	Trench	286534.363	6281819.2	46.73
14	A	Duct End	0.90	1.23	Trench	286546.829	6281833.818	46.75
15	A	Duct End	0.93	1.25	Trench	286484.807	6281860.242	44.21
16	A	Duct End	0.91	1.37	Trench	286497.124	6281874.854	43.97
17	A	Duct End	0.92	1.09	Trench	286544.585	6281760.764	49.34
18	A	Duct End	0.97	0.91	Trench	286535.225	6281771.304	49.49
19	A	Duct End	0.93	1.31	Trench	286622.746	6281752.07	44.80
20	A	Duct End	0.95	1.41	Trench	286642.95	6281734.256	43.79
21	A	Duct End	0.96	1.06	Trench	286685.35	6281485.14	38.94
22	A	Duct End	0.90	1.36	Trench	286661.14	6281477.50	39.13



- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENDEAVOUR ENERGY'S MD1 0028 AND MCI 0061.
 - AN EASEMENT FOR UNDERGROUND CABLE 1 METRE WIDE IS REQUIRED TO BE CREATED BY THE DEVELOPER OVER LOTS 524, 561 & 792. FOLLOWING INSTALLATION DUCT LOCATIONS ARE TO BE CONFIRMED BY A REGISTERED SURVEYOR PRIOR TO TRENCH BACKFILL.
 - CONCRETE PROTECTION TO BE PROVIDED TO EASEMENT DUCTS IN ACCORDANCE WITH MCI 0006 SECTION 4. REFER ENDEAVOUR ENERGY DRAWING E0062P.
 - AN EASEMENT FOR SUBSTATION SITE (B) 5m x 2.75 (THIS IS MINIMUM SIZE ONLY) IS REQUIRED TO BE CREATED BY THE DEVELOPER OVER LOT 545 & RESIDUE LOT 792. IN ADDITION TO THE EASEMENT A RESTRICTION ON THE USE OF LAND (A) IS REQUIRED IN RELATION TO THE FIRE RATING OF BUILDINGS MEASURED 3M FROM THE PLINTH OVER LOT 4 & RESIDUE LOT 792. A RESTRICTION OF THE LAND (D) IS REQUIRED IN RELATION TO SWIMMING POOLS, MEASURED 5M RADIALLY FROM THE SUBSTATION EASEMENT OVER LOT 561 & RESIDUE LOT 792.
 - REFER TELSTRAN DESIGN LAYOUT FOR DUCTING AND EXCAVATION REQUIREMENTS.
 - ATTENTION - PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA, THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK.
 - WARNING - LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES IN THIS AREA PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL: 1100 FOR SEARCHES A MINIMUM TWO DAYS PRIOR TO EXCAVATION.
 - ALL THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AUTHORITY POLLUTION CONTROL LEGISLATION IS TO BE STRICTLY ADHERED TO.
 - THE EXISTING EASEMENT FOR OVERHEAD POWER LINES IN FAVOUR OF ENDEAVOUR ENERGY MAY BE EXTINGUISHED FROM A - B, SUBJECT TO ENDEAVOUR ENERGY COMPANY POLICY 9.2.4 - NETWORK EASEMENT RELEASE.

WARNING
LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA.
PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL: 1100 FOR SEARCH INFORMATION A MINIMUM TWO DAYS PRIOR TO EXCAVATION.

ALL WORKS TO BE CONSTRUCTED ARE TO BE COMPLETED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S GENERIC ENVIRONMENTAL PLAN - EMS 0001.

ALL S.L. COLUMNS ARE TO BE INSTALLED 350mm FROM THE FRONT PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE.

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY: _____
WORKS COMPLETED: _____
SIGNATURE: _____ DATE: _____
INSPECTED BY: _____
SIGNATURE: _____ DATE: _____

ASSET RECORDING
OF: _____
CONTACT No: _____
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SA0004.
SIGNATURE: _____ DATE: _____

DESIGN COMPLIANCE AND INDEMNITY

This design complies with the Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

- CP Connection Policy
- EMS Environmental Management Standard
- MCI Mains Construction Instruction
- MDI Mains Design Instruction
- PDI Protection Design Instruction
- SBI Substation Design Instruction
- EDI Earthing Design Instruction
- SAD 0001 Design Drawing Standard
- MMI Mains Maintenance Instruction
- SM Substation Maintenance Instruction
- LOT 001 Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 'Overhead Line Design - Detailed Procedures' published by the Australian Standards.

ESTATE POWER DESIGN (Company name) indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: BRIAN JUDE
Name Provider Number: 1033 Date: 07/08/2018

CERTIFIED BY ENDEAVOUR ENERGY

AMENDMENT: _____
DATE APPROVED: _____
EXAMINER'S SIGNATURE: _____
PRINT NAME: _____
THIS CERTIFICATION IS ISSUED SUBJECT TO ENDEAVOUR ENERGY'S STANDARD CERT. TERMS

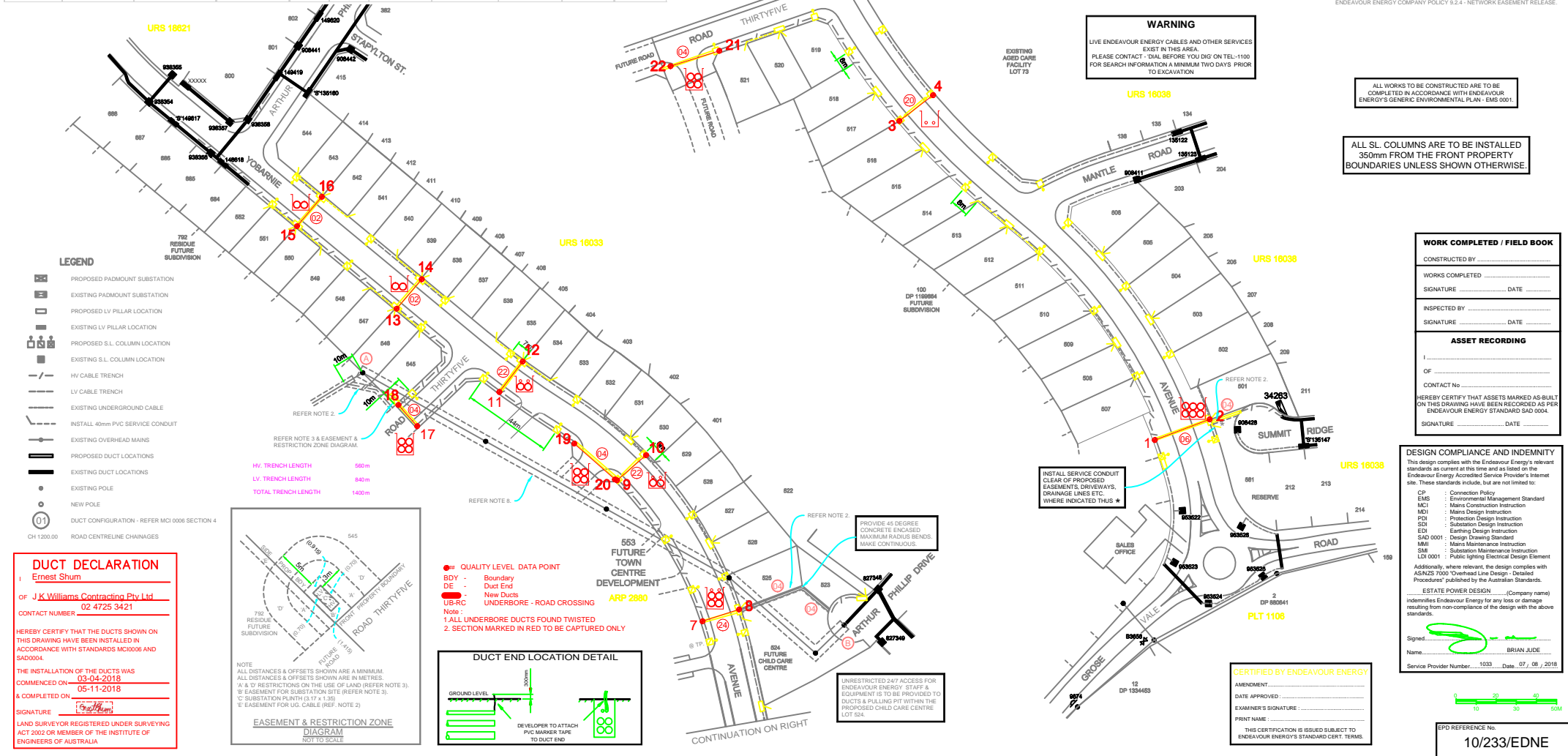
EPD REFERENCE No. 10/233/EDNE

REDBANK ESTATE
YEOMANS' NORTH ENTRY ROAD
NORTH RICHMOND
URS 21393
DUCT, EASEMENT & TRENCH REQUIREMENTS



A1 511611 A

SHEET No. 1 OF 1 SHEETS



- LEGEND**
- PROPOSED PADMOUNT SUBSTATION
 - EXISTING PADMOUNT SUBSTATION
 - PROPOSED LV PILLAR LOCATION
 - EXISTING LV PILLAR LOCATION
 - PROPOSED S.L. COLUMN LOCATION
 - EXISTING S.L. COLUMN LOCATION
 - HV CABLE TRENCH
 - LV CABLE TRENCH
 - EXISTING UNDERGROUND CABLE
 - INSTALL 40mm PVC SERVICE CONDUIT
 - EXISTING OVERHEAD MANS
 - PROPOSED DUCT LOCATIONS
 - EXISTING DUCT LOCATIONS
 - EXISTING POLE
 - NEW POLE
 - DUCT CONFIGURATION - REFER MCI 0006 SECTION 4
 - CH 1200.00 ROAD CENTRELINE CHANGES

DUCT DECLARATION

of J K Williams Contracting Pty Ltd
CONTACT NUMBER 02 4725 3421

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH STANDARDS MCI0006 AND SA0004.

THE INSTALLATION OF THE DUCTS WAS COMMENCED ON 03-04-2018
AND COMPLETED ON 05-11-2018

SIGNATURE:

LAND SURVEYOR REGISTERED UNDER SURVEYING ACT 2002 OR MEMBER OF THE INSTITUTE OF ENGINEERS OF AUSTRALIA



DUCT END LOCATION DETAIL



- QUALITY LEVEL DATA POINT
 - BDY - Boundary
 - DE - Duct End
 - New Ducts
 - UB-RC UNDERGRO - ROAD CROSSING
- Note:
1. ALL UNDERBORE DUCTS FOUND TWISTED
2. SECTION MARKED IN RED TO BE CAPTURED ONLY

W A E ONLY



ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
P.O. BOX 1872, PENRITH BC, 2751
TEL: (02) 4731-8333 FAX: (02) 4731-1594
EMAIL: brian@estatepower.com.au

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REFERENCE DRAWINGS	WORK ORDERS	CAP / SAMP No.	URS 21393
511612 ELECTRICAL RETICULATION	GENERAL	AM PROJ. No.	1:1000
OVERHEAD		HV SWITCHING	
UNDERGROUND		LD/PE/NGUN REF	MAP 63 REF G13
SUBSTATIONS		GIS MAP No	6482.94
		HV OP DIAGRAM	NORTH RICHMOND J
		LOCAL GOV AREA	HAWKESBURY

ORIGINAL SCALE	DO NOT SCALE
1:1000	
DATE	06.09.18
DESIGN	B.J.

AMENDMENTS	ORIGINAL SCALE	DO NOT SCALE
	1:1000	
	DATE	06.09.18
	DESIGN	B.J.

REDBANK ESTATE
YEOMANS' NORTH ENTRY ROAD
NORTH RICHMOND
URS 21393
DUCT, EASEMENT & TRENCH REQUIREMENTS

A1 511611 A

SHEET No. 1 OF 1 SHEETS