

MODIFICATION APPLICATION

NOTES:

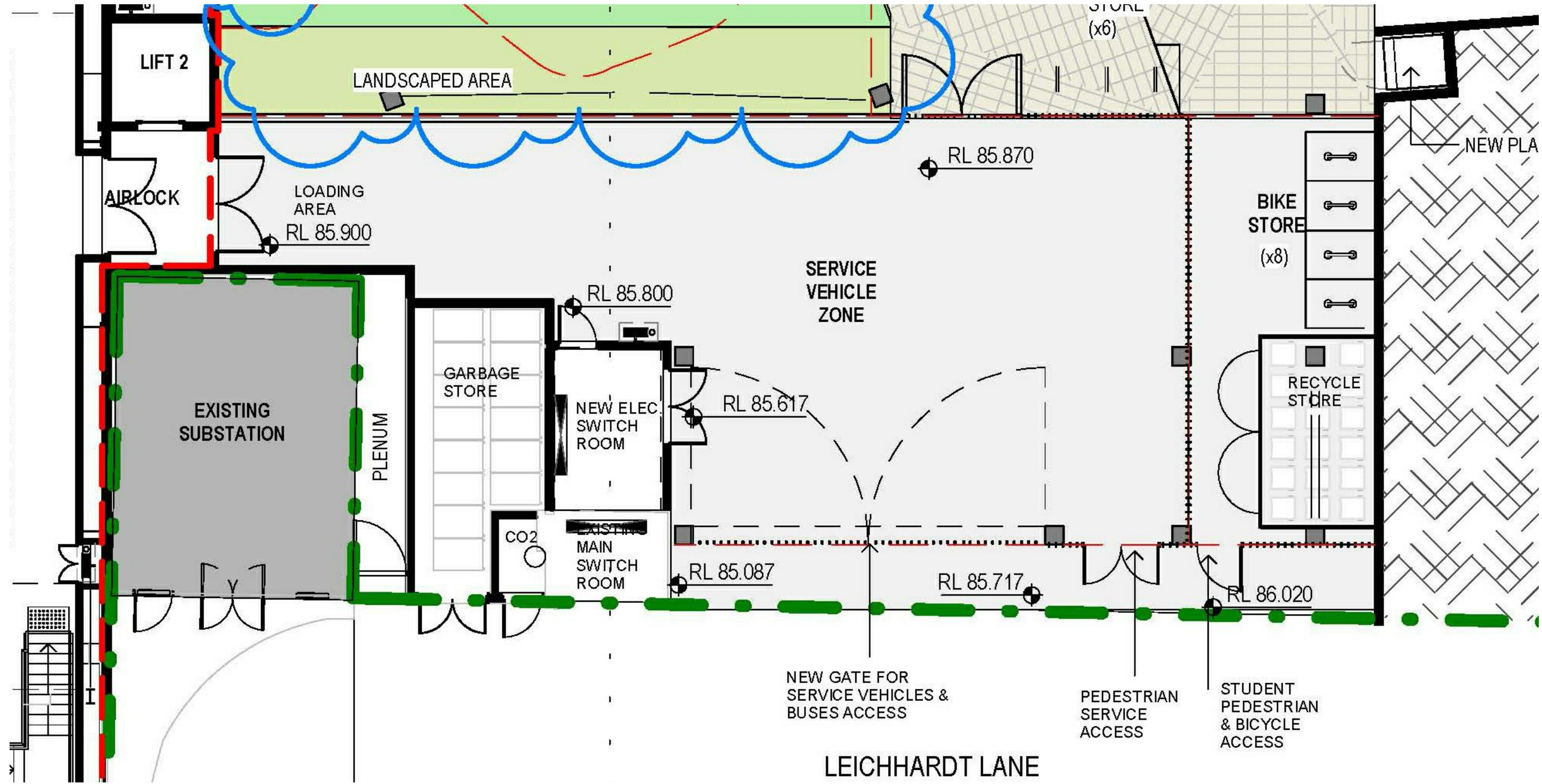
1. PROPOSED REVISION TO APPROVED MODIFICATION APPLICATION DRAWINGS ISSUED ON THE 27.05.2019
2. ITEMS REVISED ARE NUMBERED. READ IN CONJUNCTION WITH THE LIST OF REVISED ITEMS BELOW
3. OUTLINE OF APPROVED MODIFICATION APPLICATION STAGE SIGNIFICANT DEVELOPMENT APPLICATION SSD 6339 SHOWN IN RED DASHED LINES.
4. DRAWING TO BE REPRODUCED IN COLOUR FOR CLARITY.
5. NO CHANGES PROPOSED TO EXTERNAL FINISHES.
6. DRAWINGS PREPARED IN ACCORDANCE TO SUBSTATION DRAWINGS TWC - TWC-00302 PREPARED BY NORTH-ROP
7. DRAWINGS PREPARED BASED ON VEHICLE SWEEP PATH PLAN PREPARED BY ITW

LEGEND:

ST. CATHERINE'S SCHOOL BOUNDARY LINE

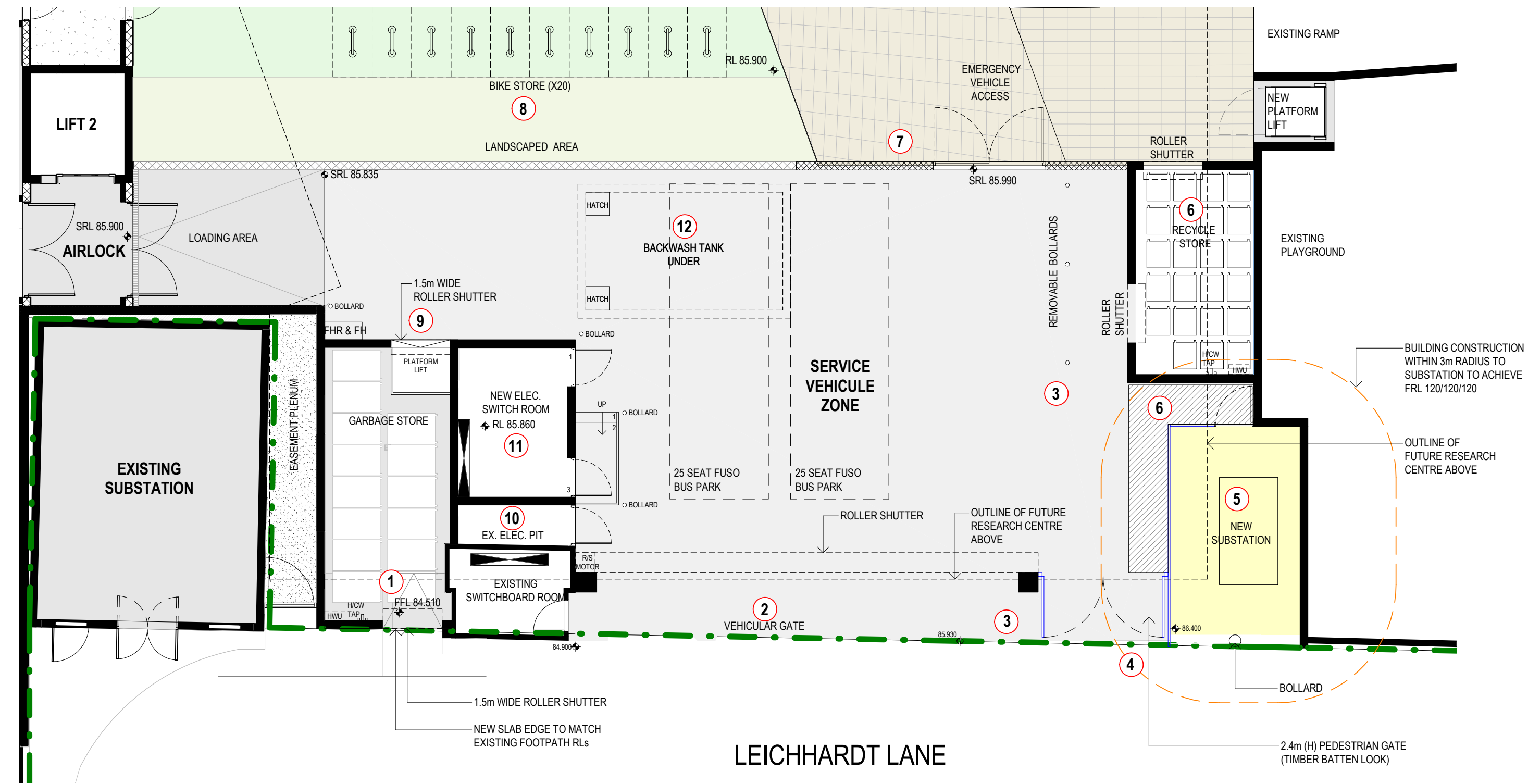
5 CHANGE ID NUMBER (REFER TO LIST OF CHANGES)

- LIST OF REVISED ITEMS:
1. CO2 ROOM DELETED AS NO LONGER REQUIRED.
 2. VEHICULAR GATE SWING DOORS REPLACED BY ROLLER SHUTTER FOR A MORE ADEQUATE AND SAFE CIRCULATION ENTRY/EXIT OF VEHICLES.
 3. INTERNAL FENCE & ASSOCIATED GATE DELETED AS NO LONGER REQUIRED.
 4. PEDESTRIAN GATE RELOCATED FOR IMPROVED FUNCTIONALITY.
 5. NEW SUBSTATION RELOCATED FROM ALBION STREET TO LEICHHARDT LANE.
 6. RECYCLE STORE RELOCATED FOR IMPROVED FACILITIES OPERATIONS FUNCTIONALITY.
 7. INTERNAL GATE ENLARGED AND RELOCATED FOR BETTER ACCESS OF EMERGENCY SERVICE VEHICLES.
 8. BIKE STORE RELOCATED.
 9. NEW ACCESS POINT TO GARBAGE STORE IMPROVED FACILITIES OPERATIONS FUNCTIONALITY
 10. EXISTING ELECTRICAL PIT AREA TO REMAIN FOR SERVICEABILITY.
 11. NEW ELECTRICAL SWITCH ROOM ENLARGED FOR COMPLIANCE. ACCESS STEPS PROVIDED TO SAVE LEVELS DIFFERENCE.
 12. UNDERGROUND BACKWASH TANK INCLUDED FOR WATER FILTRATION REQUIREMENTS.



DETAIL 1 - LEVEL 4 - SERVICE VEHICLE ZONE PLAN (AS APPROVED)

1:100



DETAIL 2 - LEVEL 4 - SERVICE VEHICLE ZONE - REVISED PLAN

1:100

A	MODIFICATION APPLICATION	08.04.21
ISSUE	AMENDMENT DESCRIPTION	DATE

ARCHITECT

MAYOH ARCHITECTS
PD MAYOH PTY LTD
ABN: 16788090805
Peter Mayoh: Registered Architect No. 3788
1/1106 Alexander Street, Crown Nest NSW 2065
P: (02) 9958 0488 F: (02) 9958 6424
E: info@mayoharchitects.com.au
www.mayoharchitects.com.au

CLIENT

ST. CATHERINE'S SCHOOL

TITLE

LEVEL 4 - SERVICE VEHICLE ZONE REVISED PLAN (PHASE A)

PROJECT

RPAC
26 ALBION STREET WAVERLEY NSW 2024

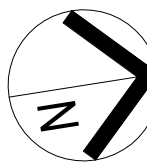
DRAWING STATUS: MODIFICATION APPLICATION

0 m 2 4 6

SCALE: 1:100 @ A1 JOB NO: 1212

CHECKED: DBV DRAWN: RM

DRAWING No. (1A)103.SVZ REV A



NOTES:

1. CHANGES FROM S.96 APPROVED BUILDING DESIGN TO S.455 DESIGN SHOWN CLOUDED AND ARE NUMBERED.
READ IN CONJUNCTION WITH LIST OF CHANGES BELOW.
2. OUTLINE OF APPROVED STATE SIGNIFICANT DEVELOPMENT APPLICATION SSD 6339 SHOWN IN RED DASHED LINES.
3. NEW WORKS TO DJSC BUILDING SHOWN IN BLUE COLOUR.
4. DRAWING TO BE REPRODUCED IN COLOUR FOR CLARITY.

LIST OF CHANGES LEVEL 4:

1. AMENDMENT TO LANDSCAPING WORK AROUND EXISTING MAGNOLIA TREE. EXISTING PATH TO REMAIN.
2. SIZE OF SERVICES RISER INCREASED.
3. STAIR 12 LOCATION AND ORIENTATION AMENDED.
4. ADDITION OF THEATRE MANAGERS OFFICE, INCREASED SIZE OF SERVICES RISER.
5. ALTERATION TO FLOOR FINISHES DISCOVERY COURT AND ADDITION OF SKYLIGHTS TO WEIGHTS AND FITNESS ROOMS BELOW.
6. AMENDMENTS TO DISCOVERY COURT DESIGN.
7. NEW DOOR TO CORRIDOR
8. DOORS AND ADJACENT SPACES RE-ARRANGED

A	ISSUE FOR \$4.55	27.05.19
ISSUE	AMENDMENT DESCRIPTION	DATE

ARCHITECT

 PD MAYOH PTY LTD

ABN 16788096806

Peter Mayoh - Registered Architect No.3788
Jo Simmons - Registered Architect No.8227

60 Strathallen Avenue Northbridge NSW 2063
P +61 2 9958 0488 F +61 2 9958 6424

info@pdmayoh.com.au
www.mayoharchitects.com.au

CLIENT
ST. CATHERINE'S
SCHOOL

TITLE

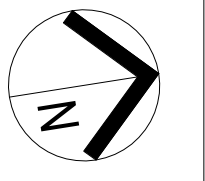
LEVEL 4 - PHASE A
(AS APPROVED)

PROJECT

RPAC

26 ALBION STREET WAVERLEY NSW
2024

DRAWING STATUS:		FOR COORDINATION	
SCALE: As indicated @ A1		JOB NO: 1212	
CHECKED: Checker		DRAWN: Author	
DRAWING No. 4.55(1A)103		REV A	



NOTES:

1. CHANGES FROM S 96 APPROVED BUILDING DESIGN TO S4.55 DESIGN SHOWN CLOUDED AND ARE NUMBERED.
READ IN CONJUNCTION WITH LIST OF CHANGES BELOW.
2. OUTLINE OF APPROVED STATE SIGNIFICANT DEVELOPMENT APPLICATION SSD 6339 SHOWN IN RED DASHED LINES.
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4. DRAWING TO BE REPRODUCED IN COLOUR FOR CLARITY.

EXTERNAL	
COR-1	-COLORBOND METAL CLADDING (MATT) SURFIST
COR-2	-COLORBOND METAL CLADDING (MATT) DUNE
COR-C	-CONCRETE CONCRETE
COR-C-G	-CONCRETE PRECAST WALL PANEL
BK-1	-CONCRETE BLOCK
BK-2	-CONCRETE BLOCK 2HR FIR
BK-3	-CONCRETE BLOCK SPLITFACE
BK-4	-PAINTED BLOCKWORK
BK-2A	-MASONRY + RENDER + PAINT
EO-1	-FIBRE CEMENT CLADDING - GREY (JOINT PATTERN)
EO-2	-FIBRE CEMENT CLADDING - (CUSTOM PATTERN)
EO-3	-FIBRE CEMENT CLADDING (HORIZONTAL)
EO-4	-FIBRE CEMENT CLADDING (VERTICAL)
FC	-FIBRE CEMENT EAVES LINING
MEF	-AL ROOF, COLORBOND SHEET
RP	-RENDER AND PAINT
STR-1	-SANDSTONE CLADDING (SPLIT FACE FINISH)
STR-2	-SANDSTONE CLADDING (GANG SAWN FINISH)
STL	-STEEL - PAINT FINISH
TMP	-TIMBER-LOOK CLADDING

 ST. CATHERINE'S SCHOOL BOUNDARY LINE
 APPROVED SEC96 OUTLINE
 NEW WORKS TO DJSC BUILDING SHOWN BLUE
 EXISTING TO BE DEMOLISHED IN DJSC BUILDING
 REVISION CLOUD INDICATING EXTENT OF CHANGES

CHANGE ID NUMBER (REFER TO LIST OF CHANGES)

ISSUE #

1. ALUMINIUM CLADDING CHANGED TO FIBRE CEMENT CLADDING
2. COPPER CLADDING TO WINDOW FEATURE CHANGED TO TIMBER-LOOK CLADDING
3. CFC CLADDING CHANGED TO CUSTOM ORB METAL CLADDING.
4. EASTERN WINDOWS REDUCED IN HEIGHT



A	ISSUE FOR \$4.55	27.05.19
ISSUE	AMENDMENT DESCRIPTION	DATE

MAYORH
ARCHITECTS

PD MAYORH PTY LTD
ABN 16788096806
Peter Mayorh - Registered Architect No.3788
Jo Simmons - Registered Architect No.8227
60 Strathallen Avenue Northbridge NSW 2063
P: +61 2 9958 0488 F: +61 2 9958 6424
www.pdmayorh.com.au
info.mayorharchitects.com.au

ST. CATHERINE'S
SCHOOL

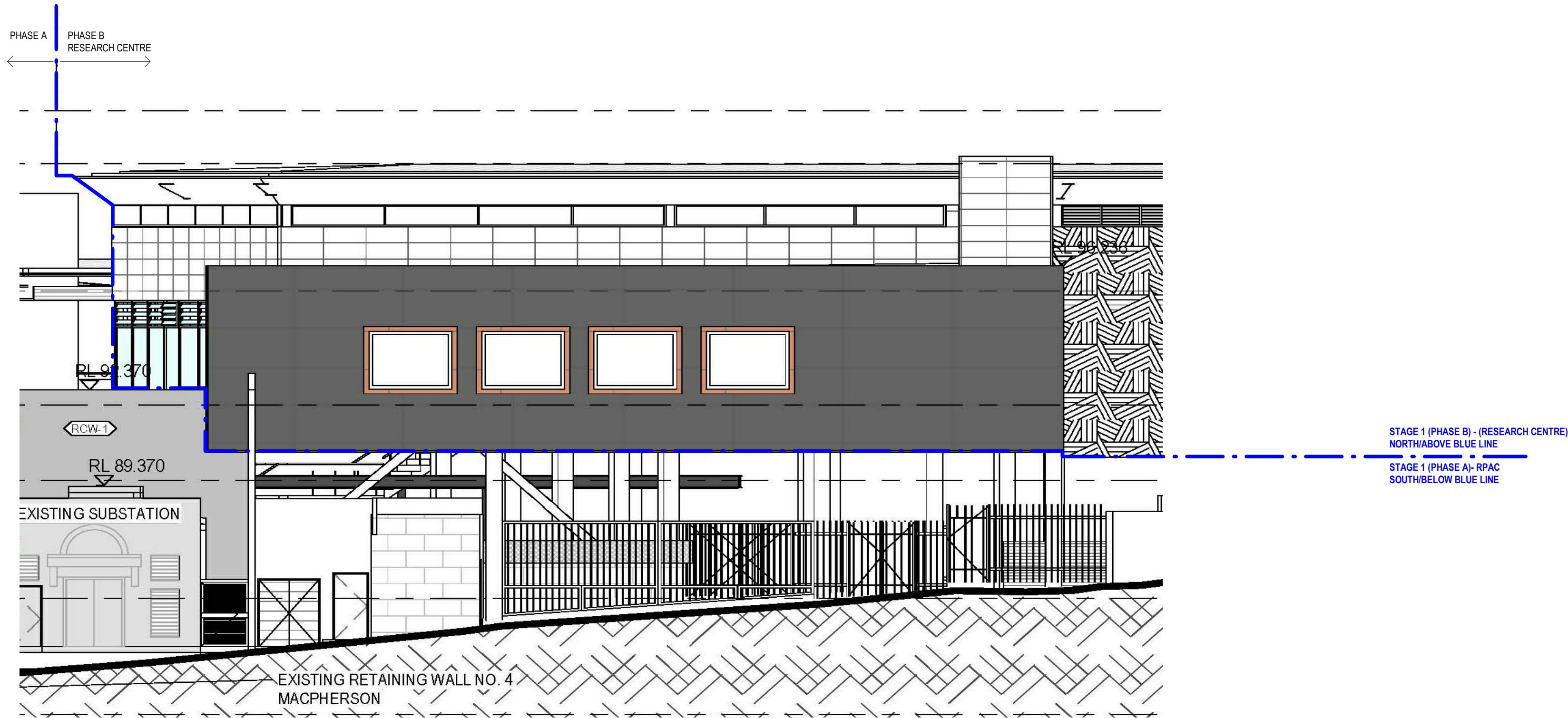
ELEVATIONS - SOUTH & EAST
(AS APPROVED)

RPAC
26 ALBION STREET WAVERLEY NSW
2024

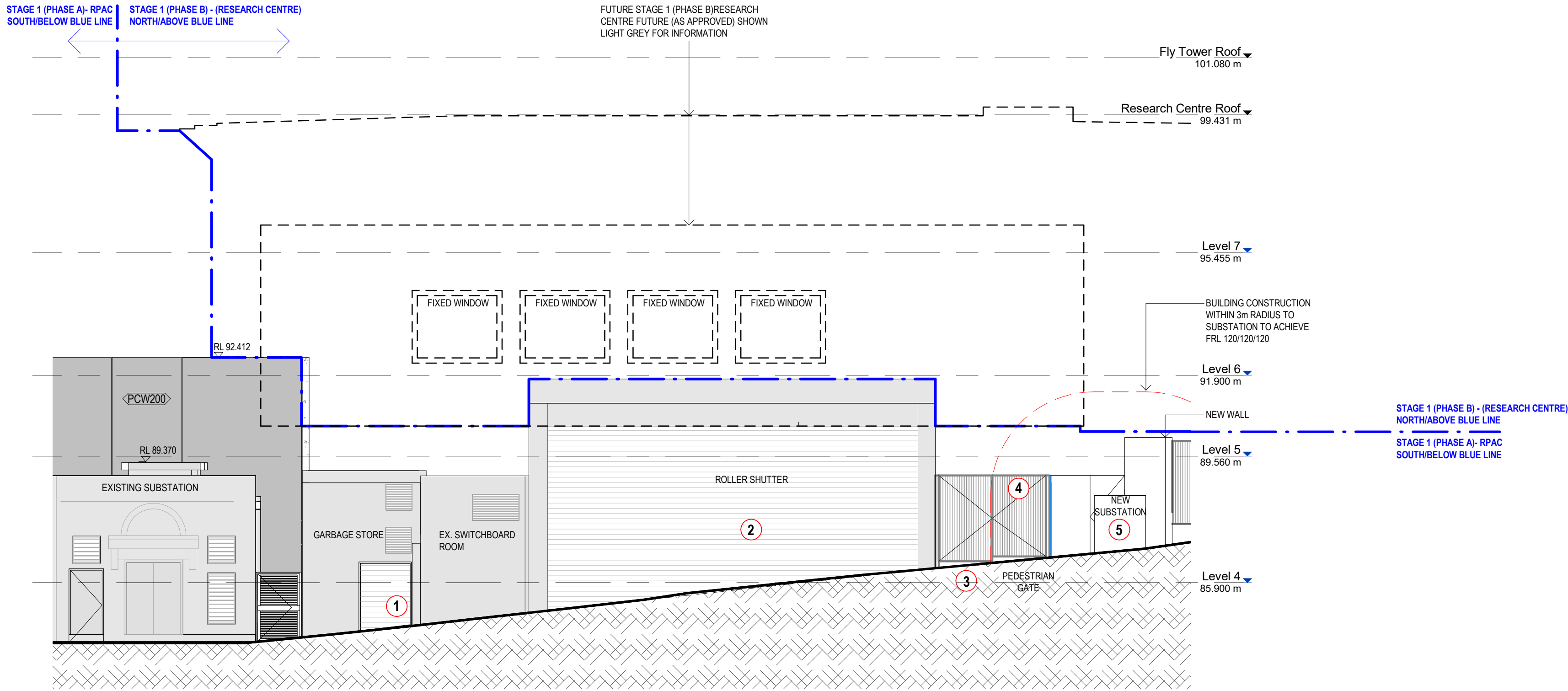
STATUS: ☐ 0 m ☐ 2 ☐ 4 ☐ 6

SCALE: As indicated @ A1	JOB NO: 1212
CHECKED: JS	DRAWN: DBV
DRAWING No. 4.55A150	REV A

14/06/2019 2:55:27 PM



DETAIL 1 - LEVEL 4 - ELEVATION - EAST ELEVATION - SERVICE VEHICLE ZONE (AS APPROVED)
1:100



DETAIL 2 - REVISED EAST ELEVATION - EAST (SERVICE VEHICLE ZONE) STAGE 1 - PHASE A
1:100

MODIFICATION APPLICATION

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8. DRAWINGS PREPARED BASED ON VEHICLE SWEEP PATH PLAN PREPARED BY TTW .

LEGEND:
- - - ST. CATHERINE'S SCHOOL BOUNDARY LINE
5 - CHANGE ID NUMBER (REFER TO LIST OF CHANGES)

- LIST OF REVISED ITEMS: ELEVATION
- CO2 ROOM DELETED AS NO LONGER REQUIRED.
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A	MODIFICATION APPLICATION	08.04.21
ISSUE	AMENDMENT DESCRIPTION	DATE

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CLIENT

ST. CATHERINE'S SCHOOL

TITLE

REVISED ELEVATION - EAST
STAGE 1 (PHASE A)

PROJECT

RPAC
26 ALBION STREET WAVERLEY NSW
2024

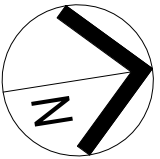
DRAWING STATUS: MODIFICATION APPLICATION

0 m 2 4 6

SCALE: 1:100 @ A1 JOB NO: 1212

CHECKED: PDM DRAWN: DBV

DRAWING No. (1A)150.SVZ REV A



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[illegible]

A	MODIFICATION APPLICATION	08.04.21
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PD MAYOH PTY LTD
ABN: 16788096806
Peter Mayoh: Registered Architect No. 3788

L1/106 Alexander Street, Crows Nest NSW 2065
P: (02) 9958 0488 F: (02) 9958 6424
E: info@mayoharchitects.com.au
www.mayoharchitects.com.au

TITLE

REVISED ELEVATION - EAST
STAGE 1 (PHASE B)

PROJECT

RPAC

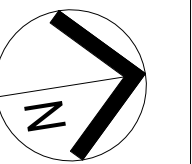
26 ALBION STREET WAVERLEY NSW
2024

0 m 2 4 6

SCALE: 1:100 @ A1	JOB NO: 1212
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CHECKED: PDM	DRAWN: DBV
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DRAWING No. (1B)150.SVZ	REV A
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CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTES

- CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
- THE ASP/1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
- THE ASP/1 MUST MINIMISE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED WHEREVER POSSIBLE. AT LEAST FOUR (4) CLEAR BUSINESS DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 90 OF THE NATIONAL ENERGY RETAIL RULES.
- SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT A SUITABLE TIME FOR THE INTERRUPTION CANNOT BE MUTUALLY AGREED TO WITH THE AFFECTED CUSTOMER(S).
- THE ASP/1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP/1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- FOR KIOSK AND CHAMBER TYPE SUBSTATIONS IN THE HUNTER AREAS, ARRANGE PHASING OF 11KV AND LOW VOLTAGE TRANSFORMER TERMINATIONS TO ACHIEVE DYN 11 INTERCONNECTION CAPABILITIES.
- THE ASP/1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP
- THE ASP/1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NS 211 - WORKING WITH ASBESTOS PRODUCTS). THE FOLLOWING AUSGRID ASSETS ARE REGISTERED AS CONTAINING ASBESTOS.
- THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND AND PROPERTY INFORMATION © 2016, USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
- FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATION LOCATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELLED AS PER CERTIFIED DESIGN DRAWING

DESIGN NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH AND MUST COMPLY WITH AUSGRID'S NETWORK STANDARDS. REFER TO BUT NOT LIMITED TO: - NS104, NS113, NS116, NS130, NS156, NS114, NS127, NS129 & NS177.
- ALL SERVICE WORK TO BE DONE IN ACCORDANCE WITH AS3000:2007 AND THE N.S.W. SERVICE AND INSTALLATION RULES.
- ALL TRENCHING, PITS, CABLES & CONDUITS ARE TO BE SURVEYED MARKED, & PHOTOGRAPHED (INSPECTED BY COMPLIANCE OFFICER PRIOR TO BACKFILLING)
- CONSTRUCTOR IS TO ENSURE THAT ALL CABLES AND CONDUITS ARE INSTALLED RELATIVE TO FINAL LEVELS.
- DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN IN THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON THE SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
- THE PREPARATION OF THIS DESIGN, HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES, AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGE TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
- HAND EXCAVATION IS TO BE USED IN THE VICINITY OF EXISTING UNDERGROUND CONSTRUCTION.
- ALL CONDUITS ARE TO BE IN ACCORDANCE TO NS130.
- ACCREDITED DESIGNER TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
- CONSUMER MAINS LENGTH TO BE IN ACCORDANCE WITH AS3000.
- DUCT CONFIGURATIONS SHOWN ARE A GUIDE ONLY - REFER DBYD SEARCHES AND AUSGRID UNDERGROUND MAPS FOR MORE DETAIL.
- HV MAINS TO HAVE MIN 600mm COVER IN FOOTPATH & MIN 750mm COVER IN ROADWAY. LV MAINS TO HAVE MIN 500mm COVER IN FOOTPATH & MIN 750mm COVER IN ROADWAY.
- TELSTRA AND OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION.
- CONTACTS:
TELSTRA: f0204107@team.telstra.com (EMAIL)
OPTUS: darthsw@optus.com.au (EMAIL)
- EXCAVATION NEAR TREES TO BE DONE IN ACCORDANCE WITH AS4970.

SPARE DUCTS

USE OF THE SPARE DUCT AS SPECIFIED IN THIS DESIGN CAN BE USED HOWEVER YOU MUST INCLUDE THE FOLLOWING NOTES:

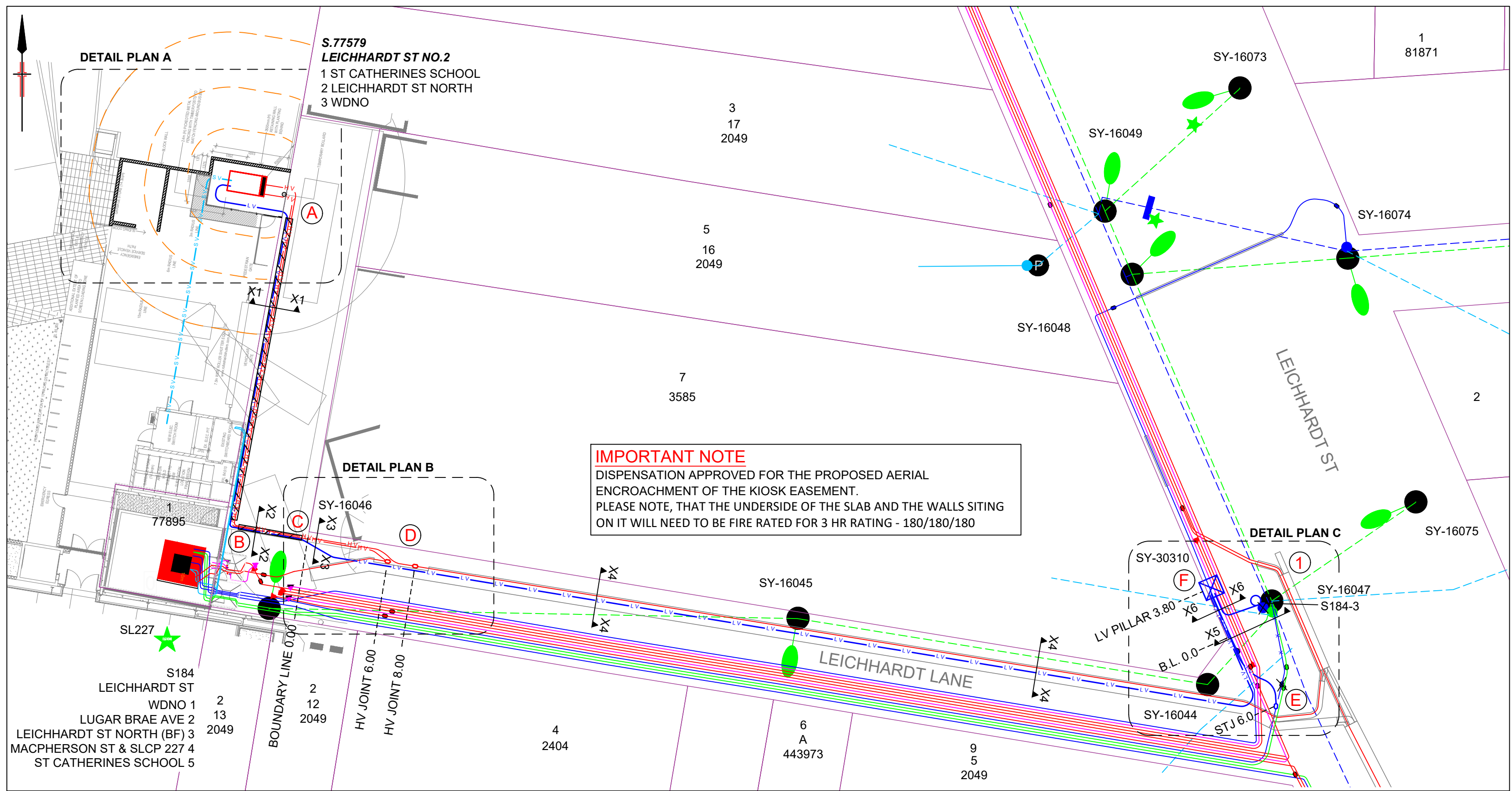
- SPARE CONDUITS EXIST IN THE FOOTWAY/ ROAD CARRIAGEWAY. IN ORDER TO MINIMISE EXCAVATION AND REINSTATEMENT, AUSGRID WILL ALLOW EXISTING SPARE CONDUITS TO BE USED FOR WORKS IN ACCORDANCE WITH AUSGRID NETWORK STANDARD 130. HOWEVER SHOULD THE DESIGNER CHOOSE TO SPECIFY THEIR USE ON THE CONTESTABLE DESIGN THEN THE DESIGN STATE:-
 - AUSGRID IS NOT AWARE OF THE CURRENT STATE OF THE DUCT LINE AND DOES NOT WARRANT THAT THE EXISTING DUCT/S ARE SUITABLE FOR USE (eg: HAVE SUFFICIENT COER FOR THE CABLE/S TO BE PULLED THROUGH THEM, ARE NOT FULLY OR PARTLY BLOCKED OR DISTORTED, ARE NOT LIKELY TO CAUSE DAMAGE TO THE CABLE/S AS THEY ARE PULLED THROUGH DUCT). THIS SHOULD BE DETERMINED ON SITE BY ASP/1 PRIOR TO UNDERTAKING ANY CABLE PULL THROUGH THE EXISTING DUCT/S.
 - THE ASP/1 WILL BE REQUIRED TO TEST THE CONDUIT/S PRIOR TO USE IN ACCORDANCE WITH AUSGRID NETWORK STANDARD A130. THIS TESTING MUST BE UNDERTAKEN IN THE PRESENCE OF AN AUSGRID COMPLIANCE OFFICER.
 - AUSGRID WILL NOT BE RESPONSIBLE FOR ANY PENALTIES, COSTS OR CONSEQUENTIAL LOSSES ASSOCIATED WITH THE INTENDED USE OF THE DUCT/S SHOULD THEY FOR ANY REASON PROVE TO BE UNSUITABLE FOR THE CONSTRUCTION OF THE CONTESTABLE WORKS.
 - THE INTEGRITY OF ADJACENT DUCTS MUST BE MAINTAINED.

WARNING

- THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
- THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
- DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.

NOTE

- MAXIMUM THREE PHASE 11KV FAULT LEVEL IS 7.61kA



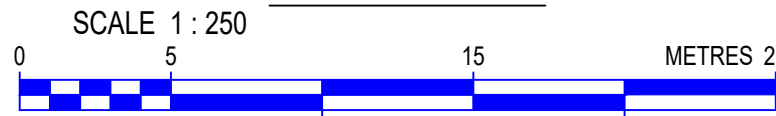
IMPORTANT NOTE

- ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

ASP LEVEL 2 WORK

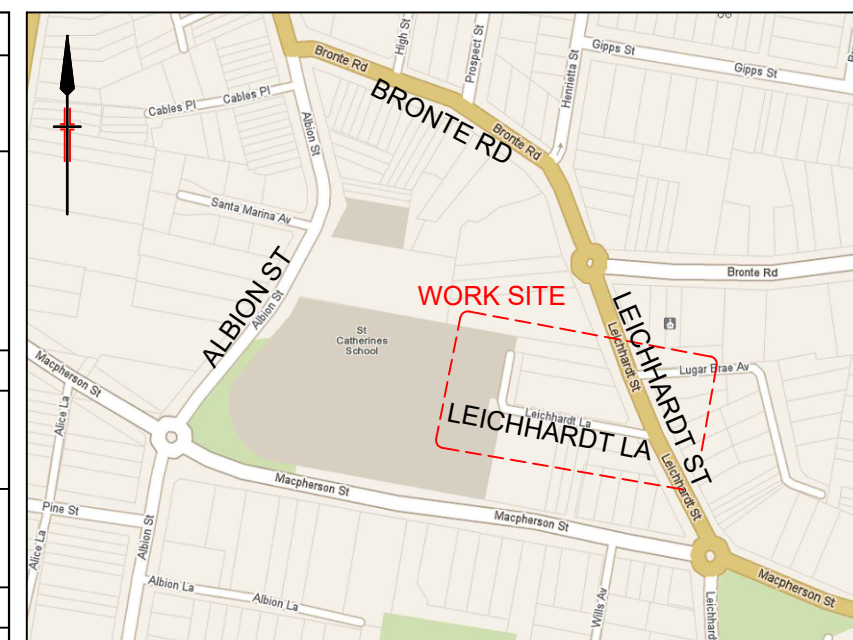
- ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

SITE PLAN

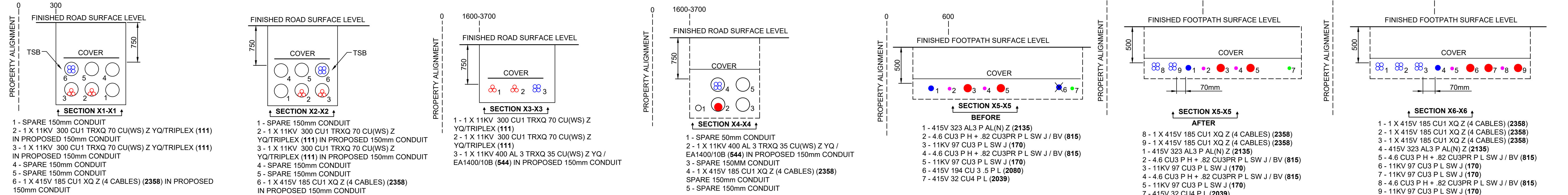


UNDERGROUND CONSTRUCTION WORKS SCHEDULE (AUSGRID DUCT PULL VERSION 1.1)

REF. IDENTIFIER	ROUTE DISTANCE (m)	CIRCUIT VOLTAGE	CONDUCTOR OR ASSET DETAIL	CABLE CODE	MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION	MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION	CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION	CONSTRUCTION DETAIL
A	N/A	11KV/LV	1000kVA 'L' TYPE SUBSTATION S.77579 'LEICHHARDT ST NO.2'	N/A	N/A	N/A	N/A	INSTALL 1000kVA KIOSK SUBSTATION 'LEICHHARDT ST NO.2' S.77579 AS PER DRAWING 151572 AND IN ACCORDANCE WITH THIS DRAWING. EARTHING REQUIREMENTS TO BE AS PER NS 116. TERMINATE 2 SETS OF 11KV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX. TERMINATE 1 X 415V 185 CU1 XQ Z CABLES AT LV DISTRIBUTOR (SAIF BOARD DISTRIBUTOR STRIP TERMINATIONS)
A - B	21	LV	6 x150mm CONDUIT (3 SPARE)	N/A	N/A	N/A	N/A	INSTALL 6 X 150mm CONDUITS FROM REF 'A' TO REF 'B' - REFER SECTION X1-X1
A - F	110	LV	1 X 415V 185 CU1 XQ Z (4 CABLES)	2358	145	95	17.71 (PULLING EYE METHOD)	RUN 1 X 415V 185 CU1 XQ Z CABLES FROM REF 'A' TO REF 'G' REFER SECTIONS X1-X1, X2-X2, X3-X3, X4-X4, X5-X5, X6-X6 & X7-X7 FOR MORE DETAILS. USE PULLING EYE DUCT PULL METHOD
A - D	40	HV	2 x 11KV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX	111	1275 (Bundled) 960 (Phase)	850 (Bundled) 575 (Phase)	4.56 (STOCKING GRIP METHOD)	RUN 2 x 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX FROM REF 'A' TO REF 'E'. REFER SECTIONS X1-X1, X2-X2 & X3-X3 FOR MORE DETAILS. USE STOCKING GRIP METHOD
B - C	5	LV	6 x150mm CONDUIT (3 SPARE)	N/A	N/A	N/A	N/A	INSTALL 6 X 150mm CONDUITS FROM REF 'A' TO REF 'B' - REFER SECTION X2-X2
D	N/A	HV	1 x THREE-TO-ONE JOINT (POLYMERIC TO POLYMERIC) (HV 2-23)	111 544	N/A	N/A	N/A	INSTALL 1 X THREE-TO-ONE JOINT (HV 2-23) BETWEEN EXIST 11KV 400 AL3 TRXQ 35 CU(WS) Z YQ CABLE AND NEW 11KV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLES STAGGER JOINTS BY 2.0m
D	N/A	HV	1 X POLYMERIC TEE JOINT (POLYMERIC MAIN TO POLYMERIC TEE) HV3-40	111 544	N/A	N/A	N/A	INSTALL 1 X POLYMERIC TEE JOINT (HV 3-40) BETWEEN NEW 11KV 400 AL3 TRXQ 35 CU(WS) Z YQ CABLE AND NEW 11KV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLES STAGGER JOINTS BY 2.0m
E	N/A	LV	1 X FOUR-TO-ONE TRANSITION JOINTS FOR PILC CABLES (LV2-43)	2080 2358	N/A	N/A	N/A	INSTALL 1 X FOUR-TO-ONE TRANSITION JOINTS FOR PILC CABLES (LV2-43) BETWEEN EXIST 415V 194 CU 3.5 P L CABLE AND NEW 1 X 415V 185 CU1 XQ Z (4 CABLES) CABLES
E - F	10	LV	1 X 415V 185 CU1 XQ Z (4 CABLES)	2358	145	95	MANUAL	RUN 1 X 415V 185 CU1 XQ Z CABLES FROM REF 'E' TO REF 'F' - REFER SECTION X5-X5
G	N/A	LV	DOUBLE LINK PILLAR SY-30310 (LV1-60)	N/A	N/A	N/A	N/A	TERMINATE 415V 185 CU1 XQ Z CABLES, FROM NEW SUB S.77579 DIST 2 TERMINATE 415V 185 CU1 XQ Z CABLES, FROM LV UGOH AT REF '1' TERMINATE 415V 185 CU1 XQ Z CABLES, FROM EXIST SUB S.184 DIST 3
G - 1	5	LV	1 X 415V 185 CU1 XQ Z (4 CABLES)	2358	145	95	MANUAL	RUN 1 X 415V 185 CU1 XQ Z CABLES FROM REF 'G' TO REF '1' - REFER SECTION X6-X6



KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	LEICHHARDT ST NO.2
SUBSTATION NUMBER:	S.77579
ADDRESS:	26 ALBION ST, WAVERLY
SUBSTATION TYPE:	KL
SIZE (kVA):	1000kVA
VECTAR GROUP:	DYN 1
TAP SETTING:	10835/433
HV SWITCHGEAR:	SCHNEIDER ELECTRIC RMI
HV FUSE DETAILS:	1000kVA SCHNEIDER KIOSK (ABB SAFELINK): 100Amp SIBA 30.020.93.100
LOAD CYCLE:	A: COMMERCIAL/INDUSTRIAL
PHASING DETAIL:	TO BE VERIFIED ON SITE BY THE ASP1 PRIOR TO COMMISSIONING.
LOW VOLTAGE BOARD:	1600/400/400
CCT1 LV FUSE SIZE (Amps):	ST CATHERINES SCHOOL (1600/1600)
CCT2 LV FUSE SIZE (Amps):	LEICHHARDT ST NORTH (400/400)
CCT3 LV FUSE SIZE (Amps):	WDNO (400/0)
EARTHING REQUIREMENTS:	STANDARD MINIMUM EARTHING AREA ARRANGEMENT AS PER ANNEXURE B AUSGRID STANDARD NS 116 OVERLY ZONE AS PER NS141, 'DRAWING 151572' & STRUCTURAL DESIGN, 'DRAWING 161379 S5700_P1'
SUBSTATION PIERING:	
EASEMENT PLAN DETAIL:	AS PER THIS DESIGN EASEMENT PLAN



CAD DRAWING

AMENDMENTS

LEGEND

PROPOSED EXISTING

Pole

SL Standard

Pillar Standard

LV Link

LV Link Pillar

Streetlight

Streetlight-PEC

Streetlight-replacement

Pole-to be removed

USL

ABS

IDT

Kiosk Sub

Chamber Sub

Pole Sub

Two Pole Sub

UGOH Pot End

Joint

Sealed End

UGOH Pot End

Joint

Sealed End

OH Lines

UG Cables

HV

LV

SL

SV

Lift Plan TWC-TWC-00302

08.02.2021

ASP REF

166320 R11

NORTHROP

Sydney

L 11 345 George Street, Sydney, N.S.W. 2000

Ph: (02) 9241 4188 Fax: (02) 9241 4224

DESIGNED BY

AUTH NO.

SUBMIT DATE

LGA

MAP REF

AUSGRID REF

PRJ/TRAk No.

2431/08

SUBMITTED 17/02/2021

WAVERLEY

257 G-9

SY82

XCZ021573

NEW KL TYPE

1000kVA KIOSK SUBSTATION

S.77579 - LEICHHARDT ST NO.2

26 ALBION ST

WAVERLEY NSW 2024

SIZE

AUSGRID PROJECT No.

SHEETS

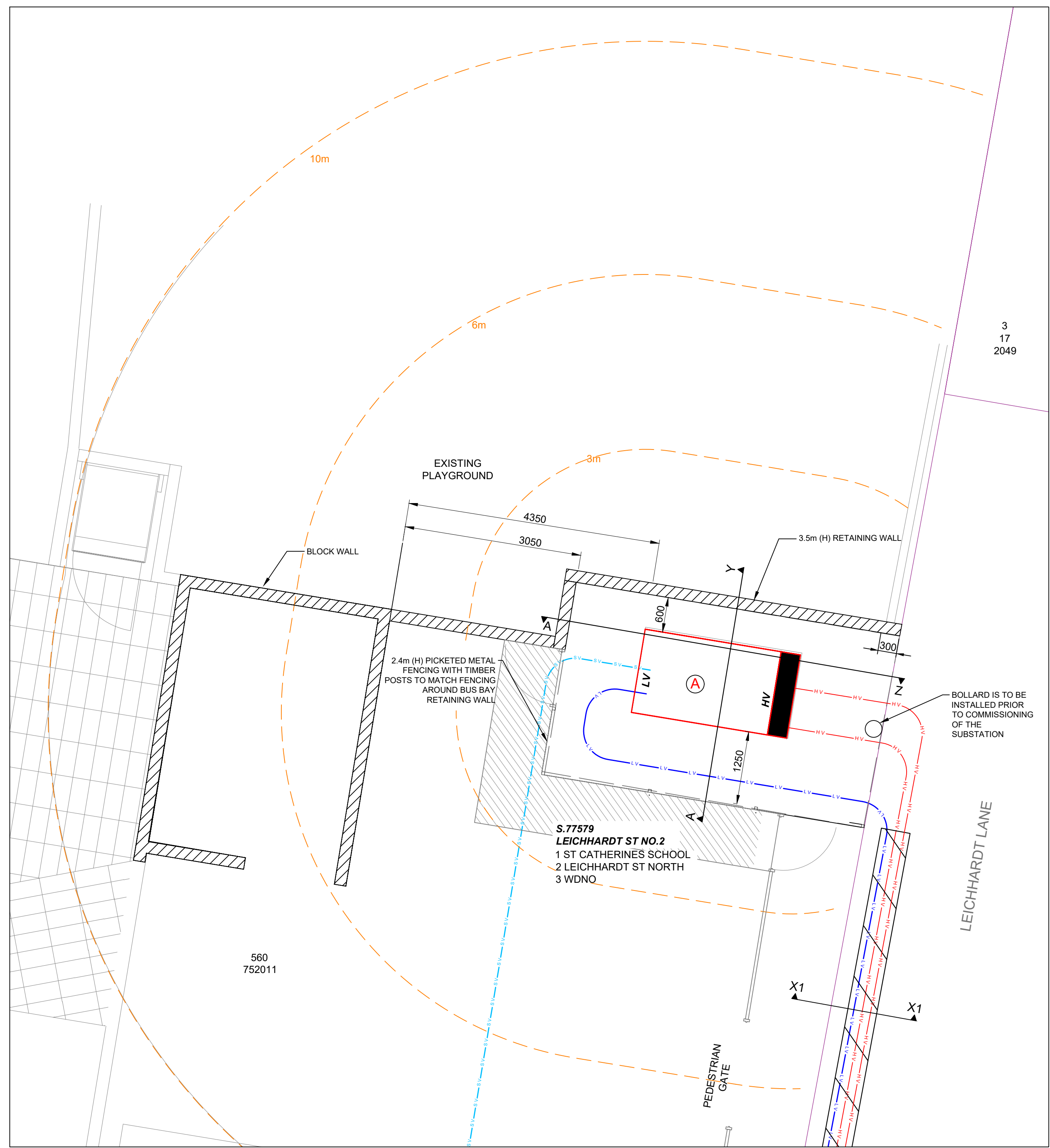
AMD

AN-20112

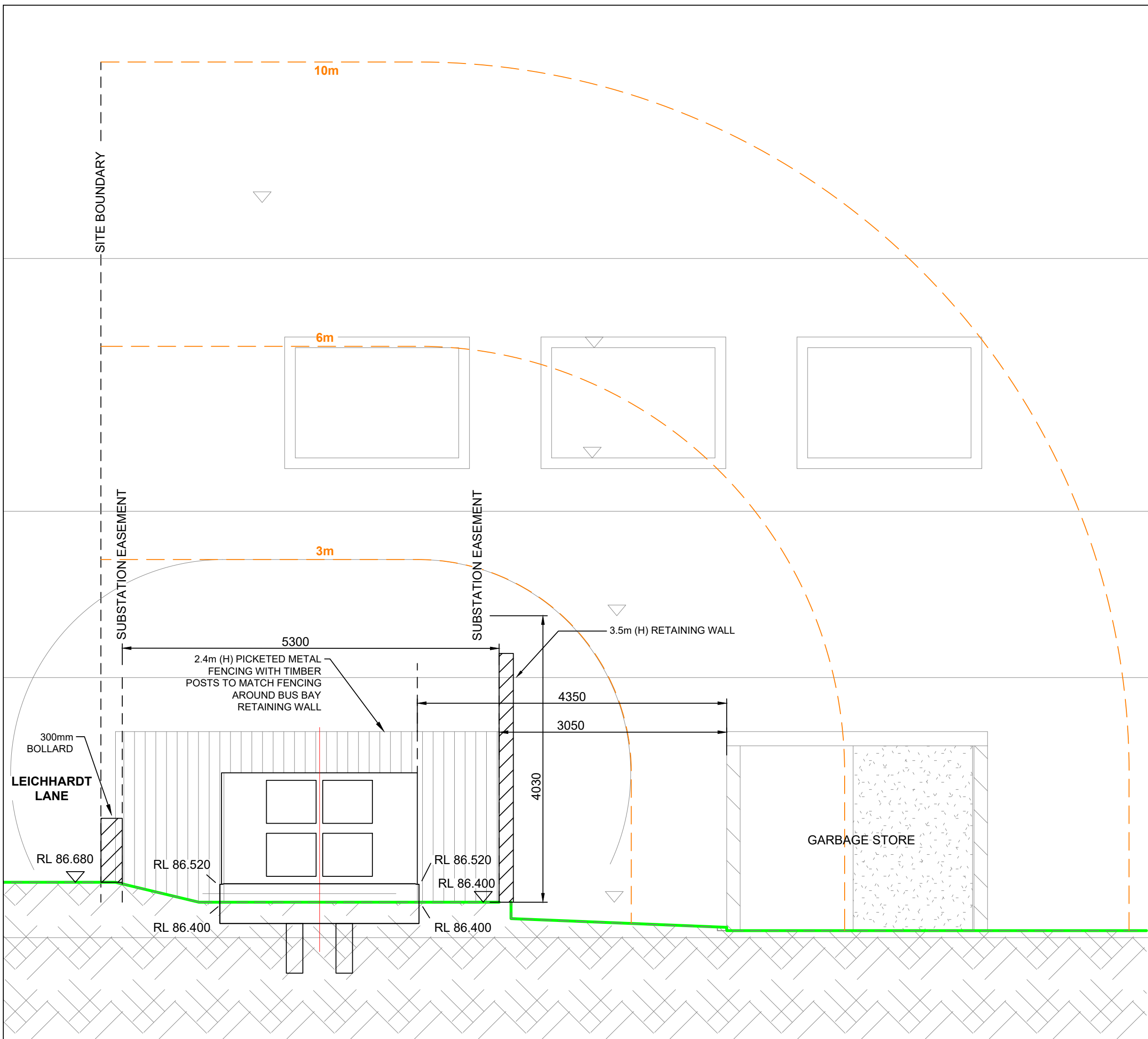
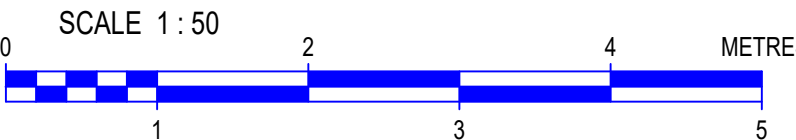
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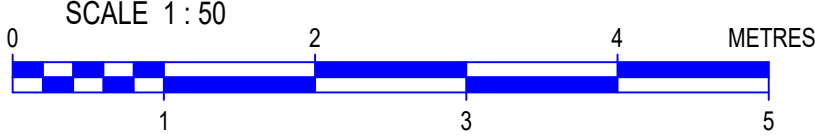
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



SUBSTATION DETAIL PLAN 'A'



SECTION A-Z SITE PROFILES

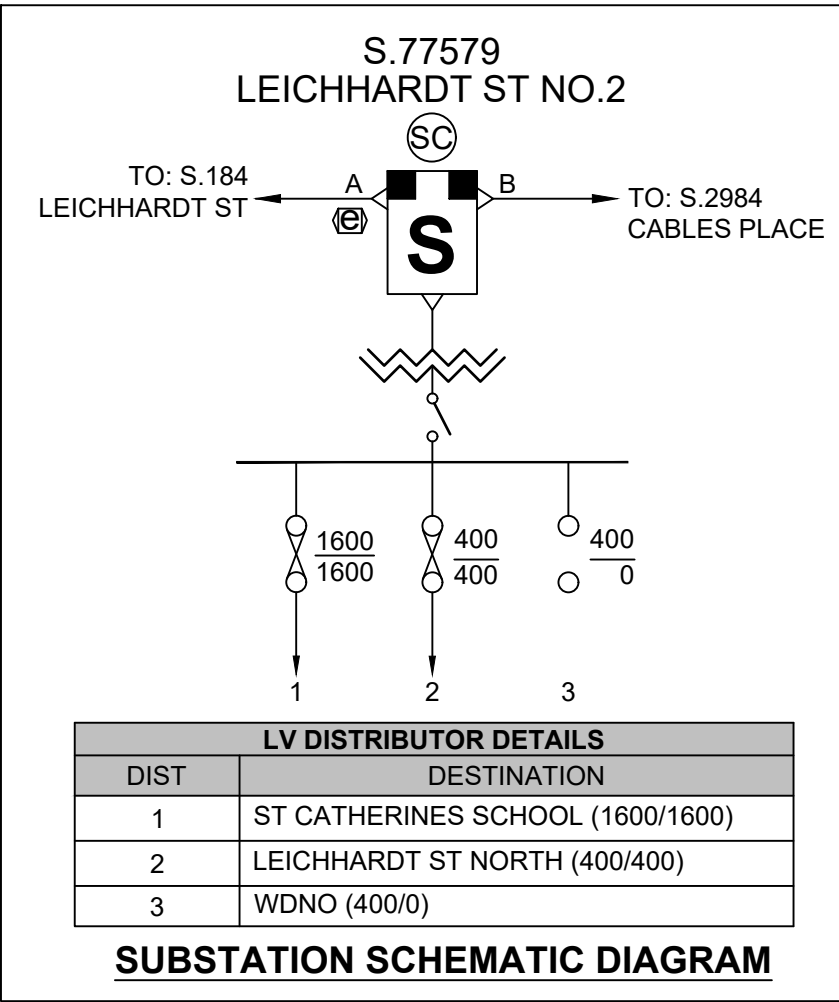


SUBSTATION 10M ZONE
AS 2419.1:2005 - FIRE HYDRANT INSTALLATIONS - PART 1 SYSTEM DESIGN, INSTALLATION AND COMMISSIONING - EXTERNAL FIRE HYDRANTS ARE REQUIRED TO BE LOCATED IN A POSITION NOT LESS THAN 10M FROM ANY HIGH VOLTAGE ELECTRICAL DISTRIBUTION EQUIPMENT SUCH AS TRANSFORMERS (KIOSKS) AND DISTRIBUTION BOARDS TO AVOID POTENTIAL ELECTRICAL HAZARDS."

SUBSTATION 6M ZONE
NS141 SECTION 10.0 - AUSGRID REQUIRES KIOSK SUBSTATION HOUSINGS TO BE SEPARATED FROM BUILDING VENTILATION SYSTEM AIR INTAKE AND EXHAUST DUCT OPENINGS, BY NOT LESS THAN 6 METRES. THIS APPLIES IRRESPECTIVE OF WHETHER THE BUILDING DUCTED VENTILATION SYSTEM IS MECHANICAL OR NATURAL AND IRRESPECTIVE OF WHETHER OR NOT FIRE DAMPERS ARE INSTALLED IN THE DUCTS.

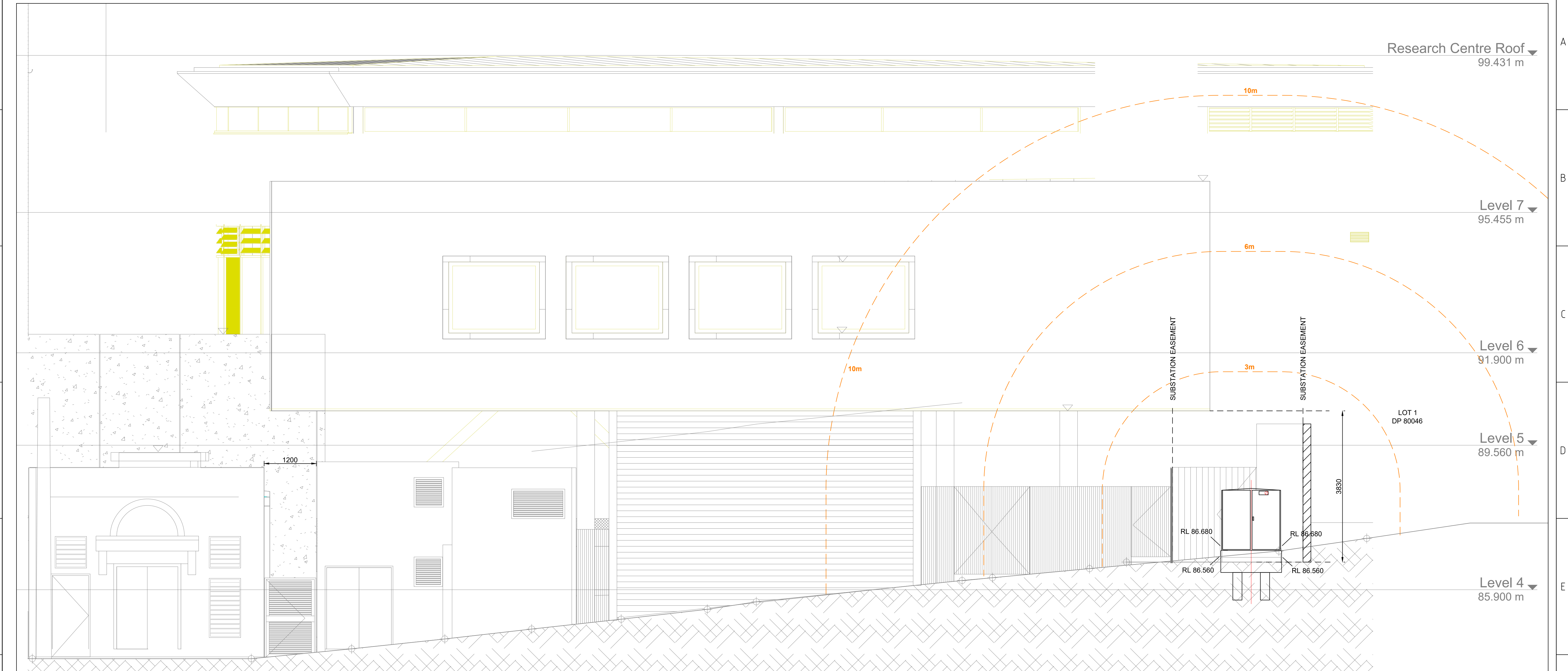
SUBSTATION 3M ZONE
NS141 SECTION 10.0 - ANY PORTION OF A BUILDING OTHER THAN A BCA CLASS 10A STRUCTURE CONSTRUCTED FROM NON COMBUSTIBLE MATERIALS, WHICH IS NOT SHELTERED BY A NON-IGNITABLE BLAST-RESISTING BARRIER AND IS WITHIN 3 METRES IN ANY DIRECTION FROM THE HOUSING OF A KIOSK SUBSTATION, IS REQUIRED TO HAVE A FIRE RESISTANCE LEVEL (FRL) OF NOT LESS THAN 120/120/120. OPENABLE OR FIXED WINDOWS OR GLASS BLOCKWORK OR SIMILAR, IRRESPECTIVE OF THEIR FIRE RATING, ARE NOT PERMITTED WITHIN 3 METRES IN ANY DIRECTION FROM THE HOUSING OF A KIOSK SUBSTATION, UNLESS THEY ARE SHELTERED BY A NON-IGNITABLE BLAST RESISTING BARRIER.

SUBSTATION LANDSCAPING
THE FINISHED SURFACE OF THE SUBSTATION SITE MAY BE BLUE METAL, LAWN GRASS, PINE, BARK WOODCHIPS, PAVERS OR MOWING STRIPS.

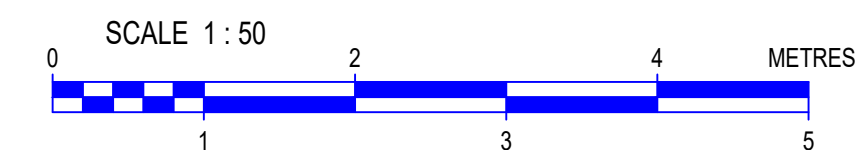


CAD DRAWING NO. AMENDMENTS											PROPOSED EXISTING		PROPOSED EXISTING		PROPOSED EXISTING		EXISTING		Lift Plan TWC-TWC-00302		08.02.2021		 Sydney L 11 345 George Street, Ph (02) 9241 4188 P.O. Box 1171 Sydney, N.S.W. 2000 Fax (02) 9411 4204 Available Streams, N.S.W. 1218 Email: sydney@northrop.com.au ABRN 61 004 433 100		DESIGNED BY AUTH NO. 2431/08		PAUL CAVE		NEW KL TYPE 1000kVA KIOSK SUBSTATION S.77579 - LEICHHARDT ST NO.2 26 ALBION ST WAVERLEY NSW 2024				
											Pole-to be removed		UGOH Pot End		UGOH Pot End				SUBMIT DATE 2431/08		SUBMITTED 17/02/2021												
											USL		Joint Sealed End		Joint Sealed End				LGA WAVERLEY														
											ABS		Conduit						MAP REF 257 G-9														
											IDT		OH Lines UG Cables		OH Lines UG Cables				AUSGRID REF SY82														
										Kiosk Sub		-HV- -HV-		-HV- -HV-				PRJTRAK No. XCZ021573		SIZE A1		AUSGRID PROJECT No. AN-20112		SHEETS 2 of 5		AMD. 0							
										Pole Sub		-LV- -LV-		-LV- -LV-						ASSOCIATED DRAWINGS		CERTIFICATION NUMBER		1843609/20210219									
										Two Pole Sub		-SV- -SV-		-SV- -SV-																			

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

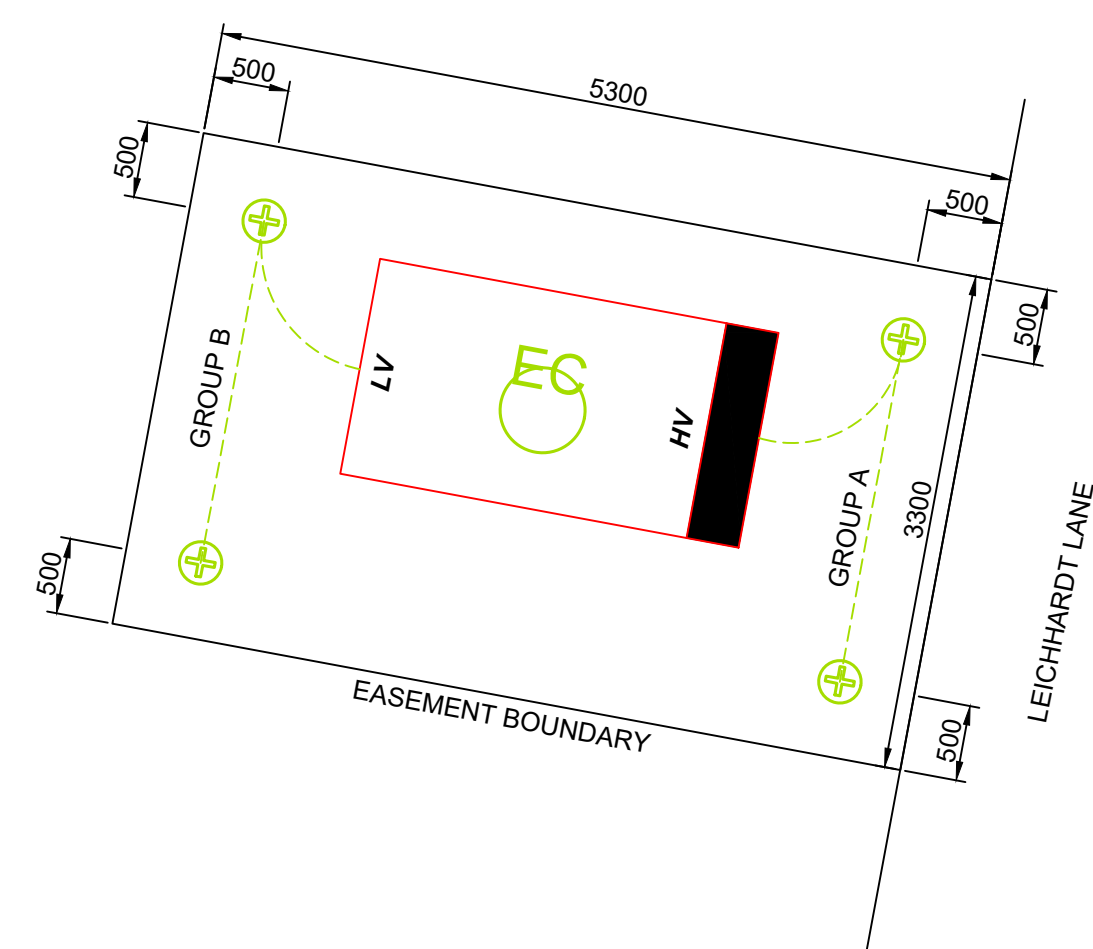


SECTION A-Y SITE PROFILES



IMPORTANT NOTE

DISPENSATION APPROVED FOR THE PROPOSED AERIAL ENCROACHMENT OF THE KIOSK EASEMENT.
PLEASE NOTE, THAT THE UNDERSIDE OF THE SLAB AND THE WALLS SITING ON IT WILL NEED TO BE FIRE RATED FOR 3 HR RATING - 180/180/180



EARTHING DIAGRAM FOR KIOSK S.77579
(COMBINED EARTHING)

(REFER TO NS0116 FOR MORE DETAILS)

----- BLACK INSULATED 70mm² STRANDED COPPER CONDUCTOR

 5.4m ELECTRODE

	PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED	EXISTING
Pole			Pole-to be removed				UGOH	Pot End
SL Standard			USL			Joint	Sealed End	UGOH
Pillar Standard			ABS			Conduit		Joint
LV Pillar			IDT			OH Lines	UG Cables	OH Lines
LV Link Pillar			Kiosk Sub			-HV-	-HV-	-
Streetlight			Chamber Sub			-LV-	-LV-	-
Streetlight-PEC			Pole Sub			-SL-	-SL-	-
Streetlight-replacement			Two Pole Sub			-SV-	-SV-	-

<i>Lift Plan TWC-TWC-00302</i>	<i>08.02.2022</i>
ASSOCIATED DRAWINGS	



Sydney
L 11 345 George Street, Ph (02) 9241 4188 P.O. Box H171
Sydney, N.S.W. 2000 Fax (02) 9241 4324 Australia Square, N.S.W.
Email sydney@northrop.com.au ABN 81 094 433 100

ASP REF.	166320 R11
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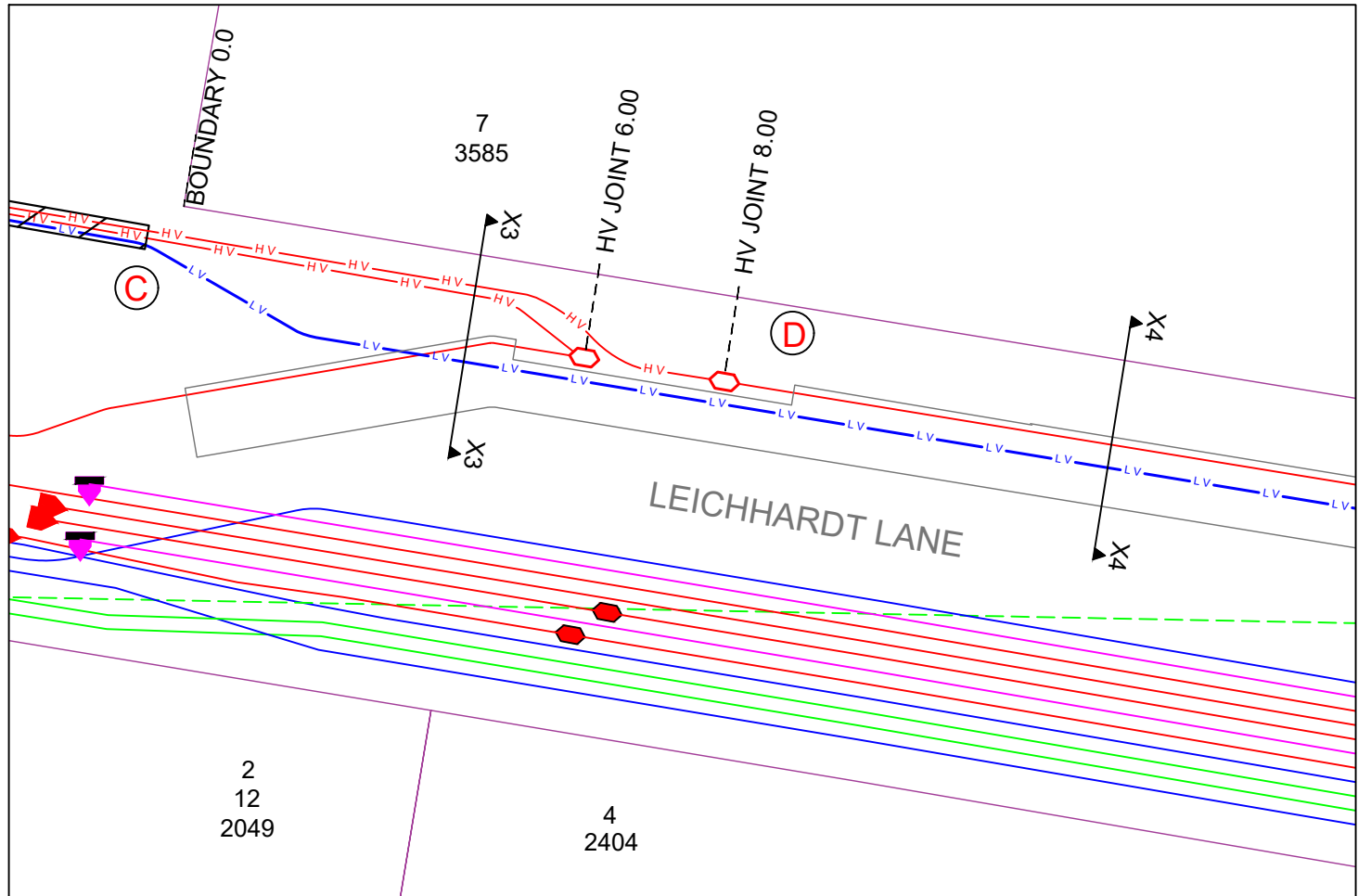
DESIGNED BY	PAUL CAVE
AUTH NO.	2431/08
SUBMIT DATE	SUBMITTED 17/02/202
LGA	WAWERLEY
MAP REF.	257 G-9
AUSGRID REF.	SY82
PRJTRAK No.	XCZ021573

NEW KL TYPE			
1000kVA KIOSK SUBSTATION			
S.77579 - LEICHHARDT ST NO.2			
26 ALBION ST			
WAVERLEY NSW 2024			
SIZE	AUSGRID PROJECT No.	SHEETS	AMD.
9A1	AN-20112	3 of 5	0

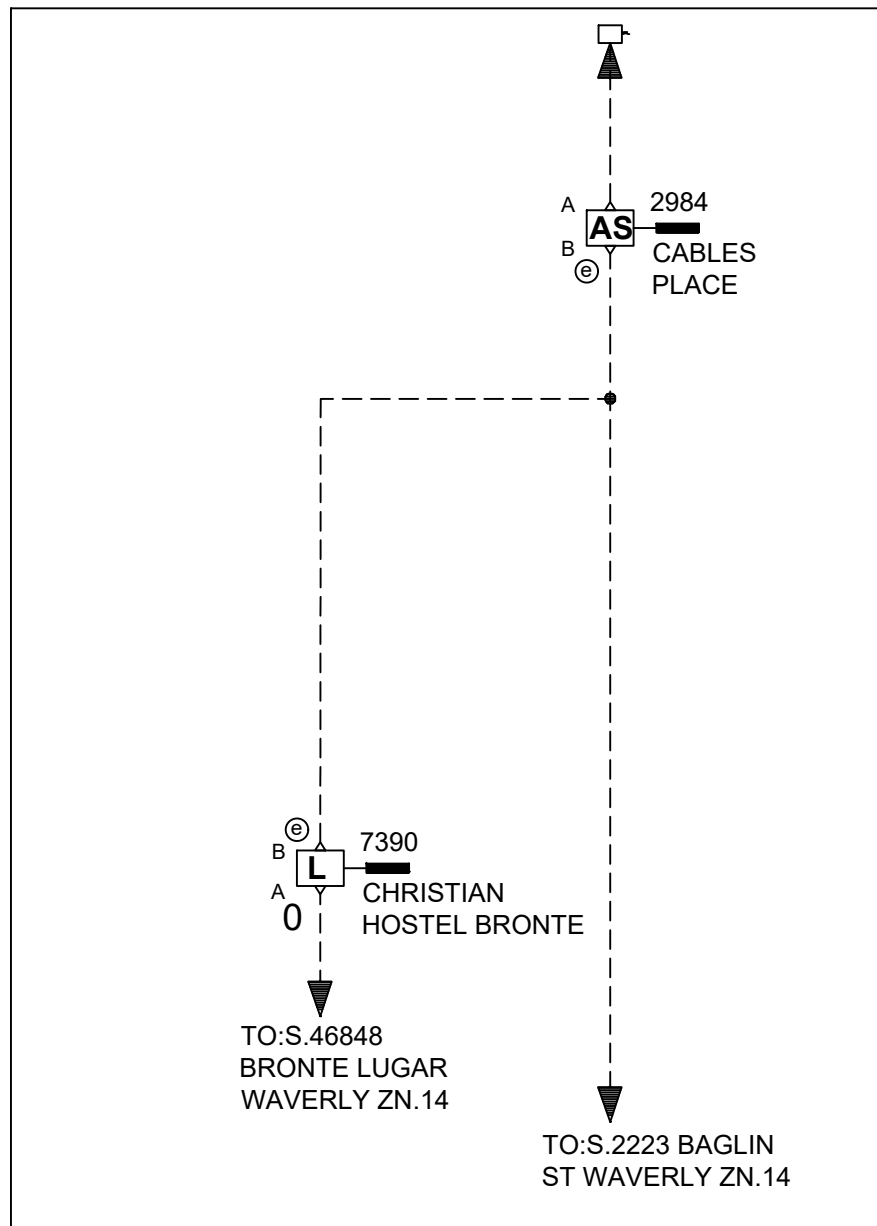
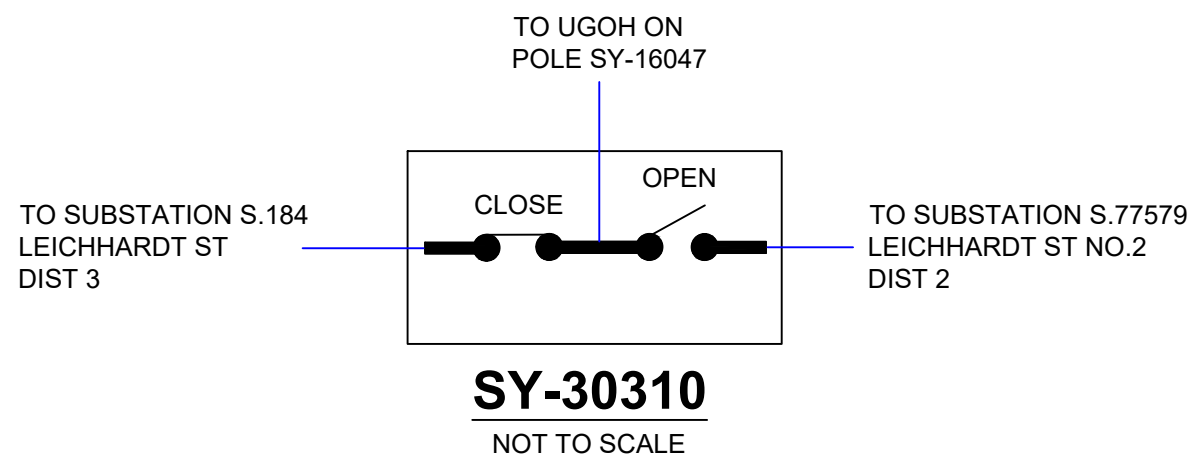
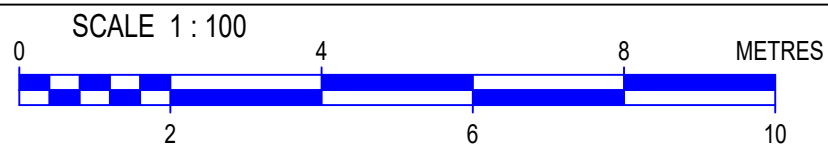
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

OVERHEAD CONSTRUCTION WORKS SCHEDULE

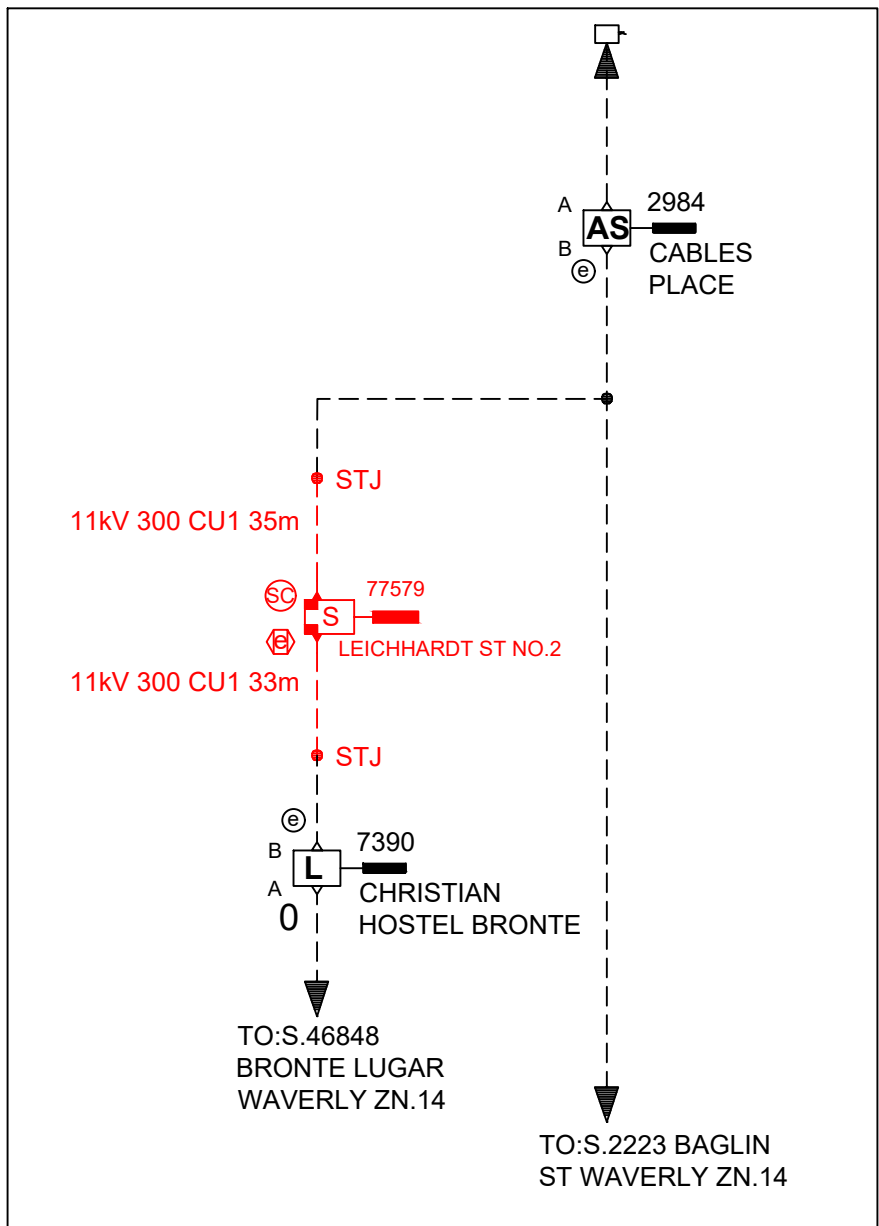
REF. IDENTIFIER	POLE NUMBER	SIZE (m)	STRENGTH (kN)	POLE TYPE TIMBER/CONC	DEPTH (m)	FOOTING DETAILS	HV CONSTRUCTION		LV CONSTRUCTION		STAY DETAILS				No. of VIBRATION DAMPERS	No. of ARMOUR RODS	ADDITIONAL CONSTRUCTION DETAIL
							CONST TYPE	ATTACHED (m) FROM HEAD OF POLE	CONST TYPE	ATTACHED (m) FROM HEAD OF POLE	STAY TYPE	STAY SIZE	ATTACHED (m) FROM HEAD OF POLE	STAY BEARING (Deg)			
1	SY-16047	EXIST	EXIST	TIMBER	EXIST	EXIST	N/A	N/A	1-107 LVUGOH (LV1-6)	0.2	N/A	N/A	N/A	N/A	N/A	N/A	REMOVE EXISTING LV UGOH, LV CABLE AND LV JOINT AT REFERENCE 'E' INSTALL NEW UGOH CONSTRUCTION, BARE OH MAINS TO SINGLE CORE CABLES WITH FUSE/LINK DISCONNECTOR (LV1-6)



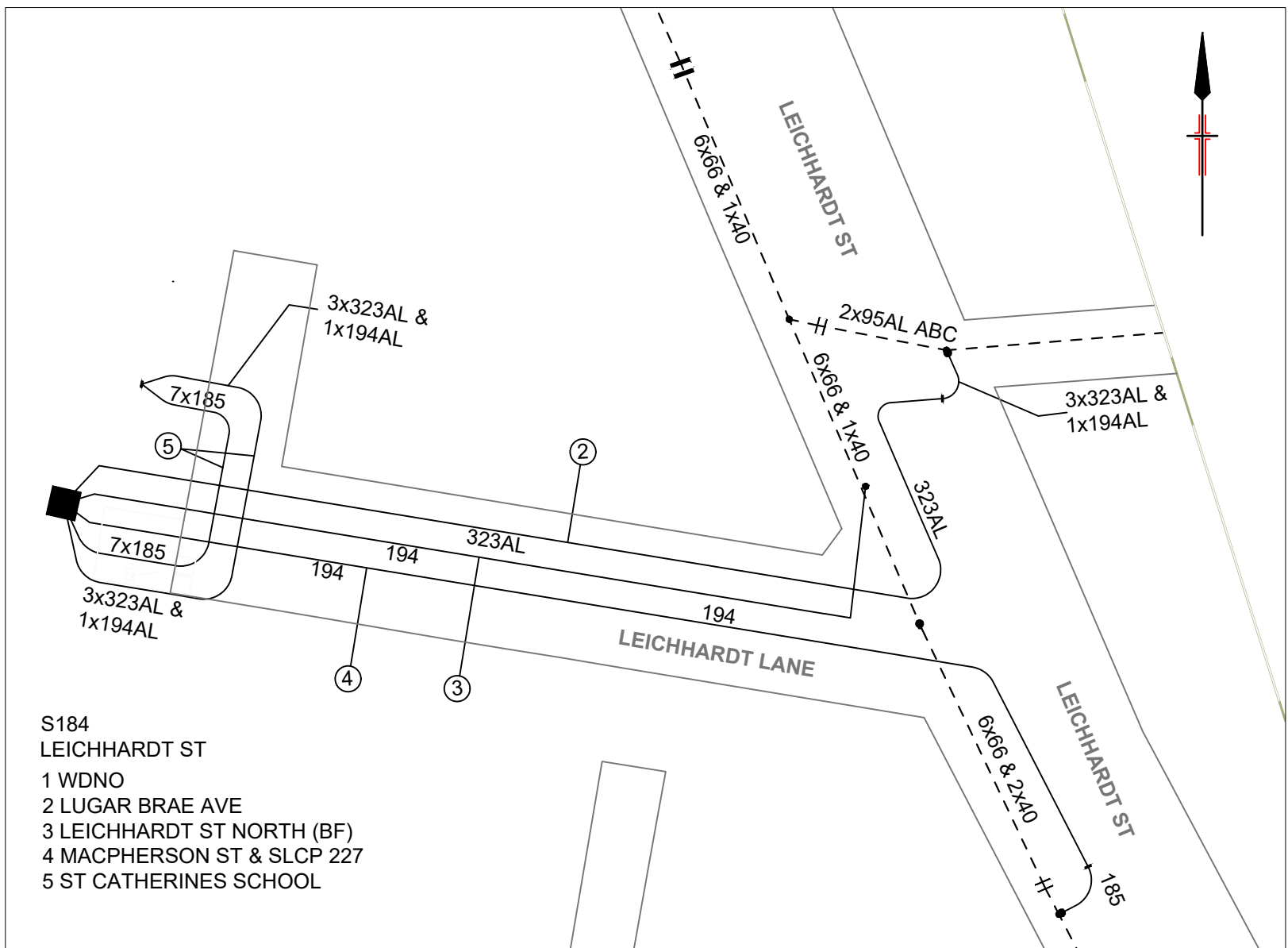
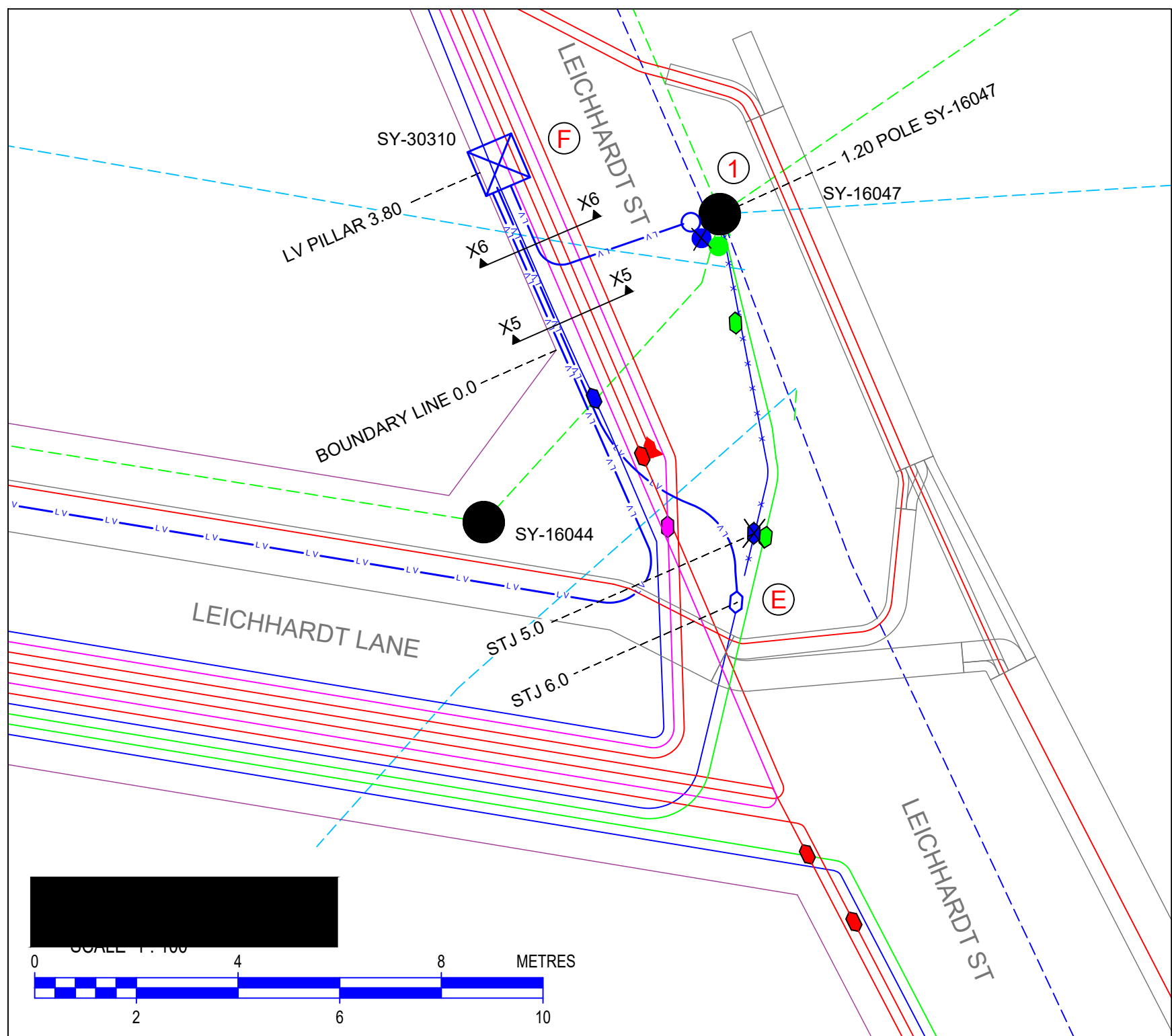
DETAIL PLAN B



11kV SCHEMATIC - EXISTING SYSTEM DIAGRAM - PANEL 9 (CLOVELLY ZONE 71)

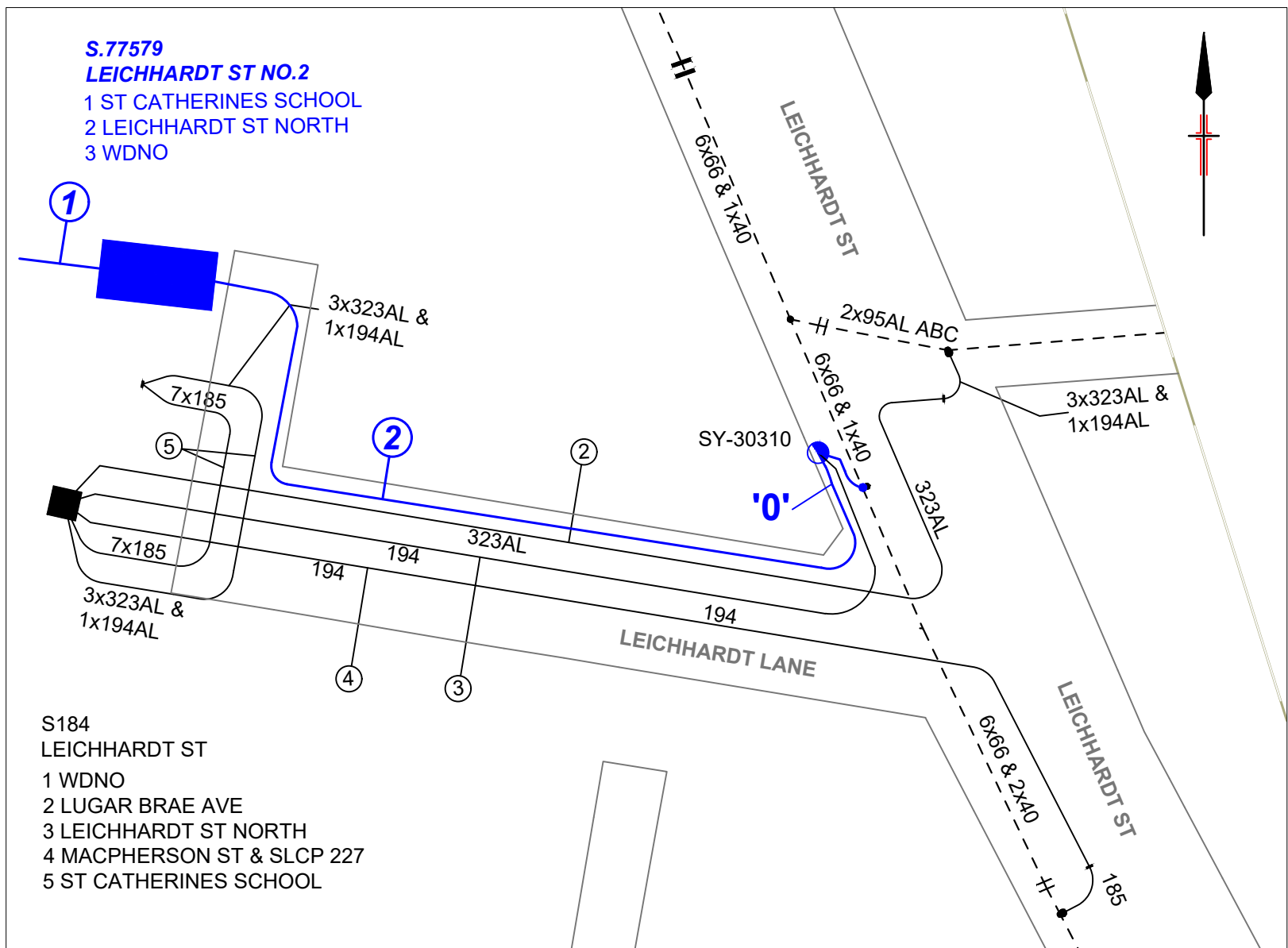


11kV SCHEMATIC - PROPOSED SYSTEM DIAGRAM - PANEL 9 (CLOVELLY ZONE 71)



EXISTING LV NETWORK

NOT TO SCALE



EXISTING LV NETWORK

NOT TO SCALE

CAD DRAWING

AMENDMENTS

PROPOSED EXISTING
Pole
SL Standard
Pillar Standard
LV Link Pillar
Streetlight
Streetlight-PEC
Streetlight-replacement

PROPOSED EXISTING
Pole-to be removed
USL
ABS
IDT
Kiosk Sub
Chamber Sub
Pole Sub
Two Pole Sub

PROPOSED EXISTING
UGOH Pot End
Joint Sealed End
Conduit
OH Lines UG Cables
-HV- -HV-
-LV- -LV-
-SV- -SV-

EXISTING
UGOH Pot End
Joint Sealed End
OH Lines UG Cables
-HV- -HV-
-LV- -LV-
-SV- -SV-

ASSOCIATED DRAWINGS

Lift Plan TWC-TWC-00302
08.02.2021

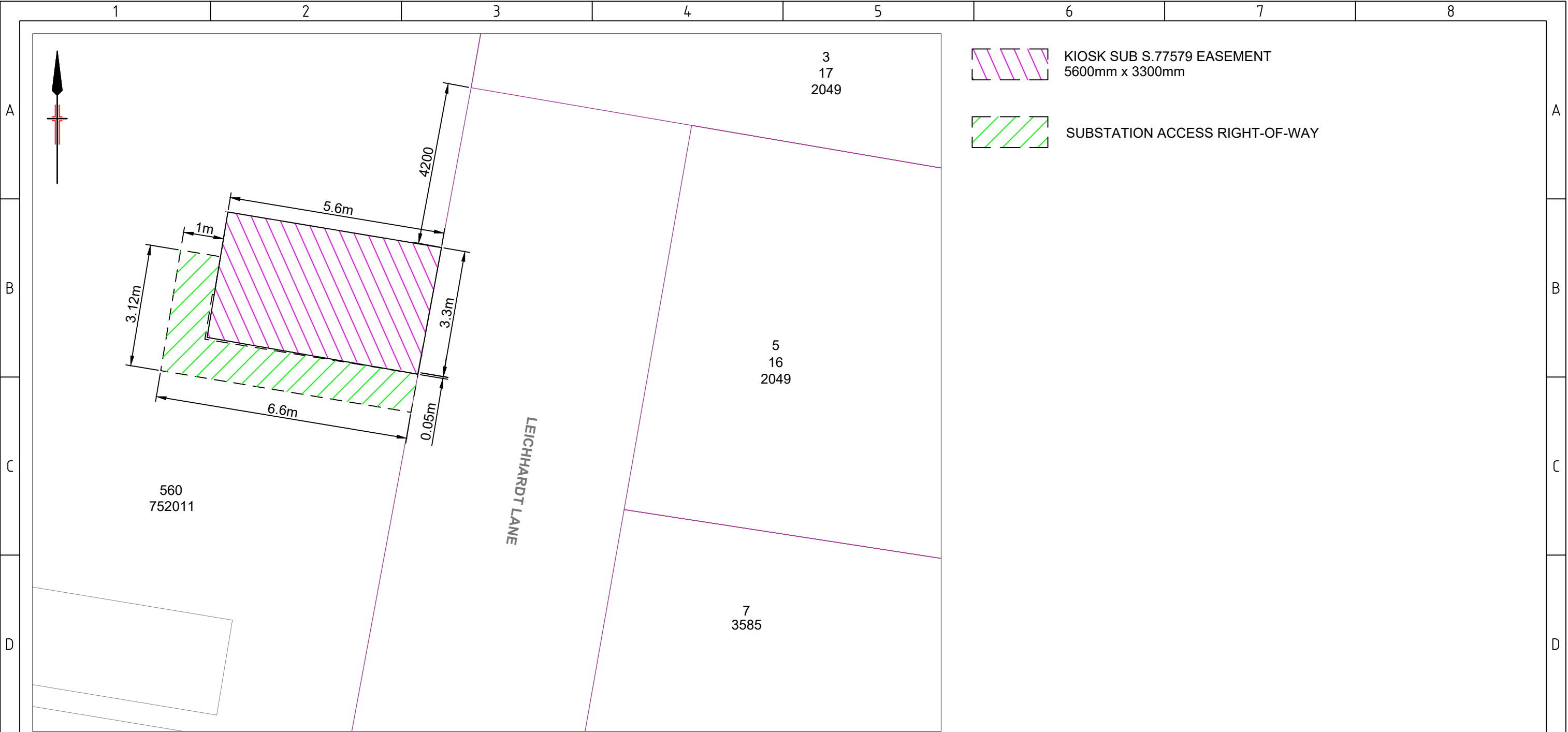
NORTHROP
Sydney
L 11 345 George Street, Ph (02) 9241 4155, P.O. Box 11171
Sydney, N.S.W. 2000, Fax (02) 9241 4124, Australia Square, N.S.W. 1215
Email: northrop@northrop.com.au, northrop@northrop.com.au

DESIGNED BY: PAUL CAVE
AUTH NO: 2431/08
SUBMIT DATE: 17/02/2021
LGA: WAVERLEY
MAP REF: 257 G-9
AUSGRID REF: SY82
PRJ/TRA No: XCC2021573

NEW KL TYPE
1000kVA KIOSK SUBSTATION
S.77579 - LEICHARDT ST NO.2
26 ALBION ST
WAVERLEY NSW 2024
AUSGRID PROJECT No: AN-20112
SHEETS: 4 of 5
AMD: 0

20160817

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SUBSTATION EASEMENT PLAN
NOT TO SCALE

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			AUTH NO.	2431/08										
			SUBMIT DATE	SUBMITTED 17/02/2021										
			LGA	WAVERLEY										
			MAP REF.	257 G-9										
			AUSGRID REF.	SY82										
							PRJTRAK No.	XCZ021573						
							ASP REF.	166320_R11						
			ASSOCIATED DRAWINGS			CERTIFICATION NUMBER		# # - # #		SIZE A3	AUSGRID PROJECT No. AN-20112	SHEETS 5 of 5	AMD. 0	
			20160817	1		2	3	4	5	6	7	8	©	