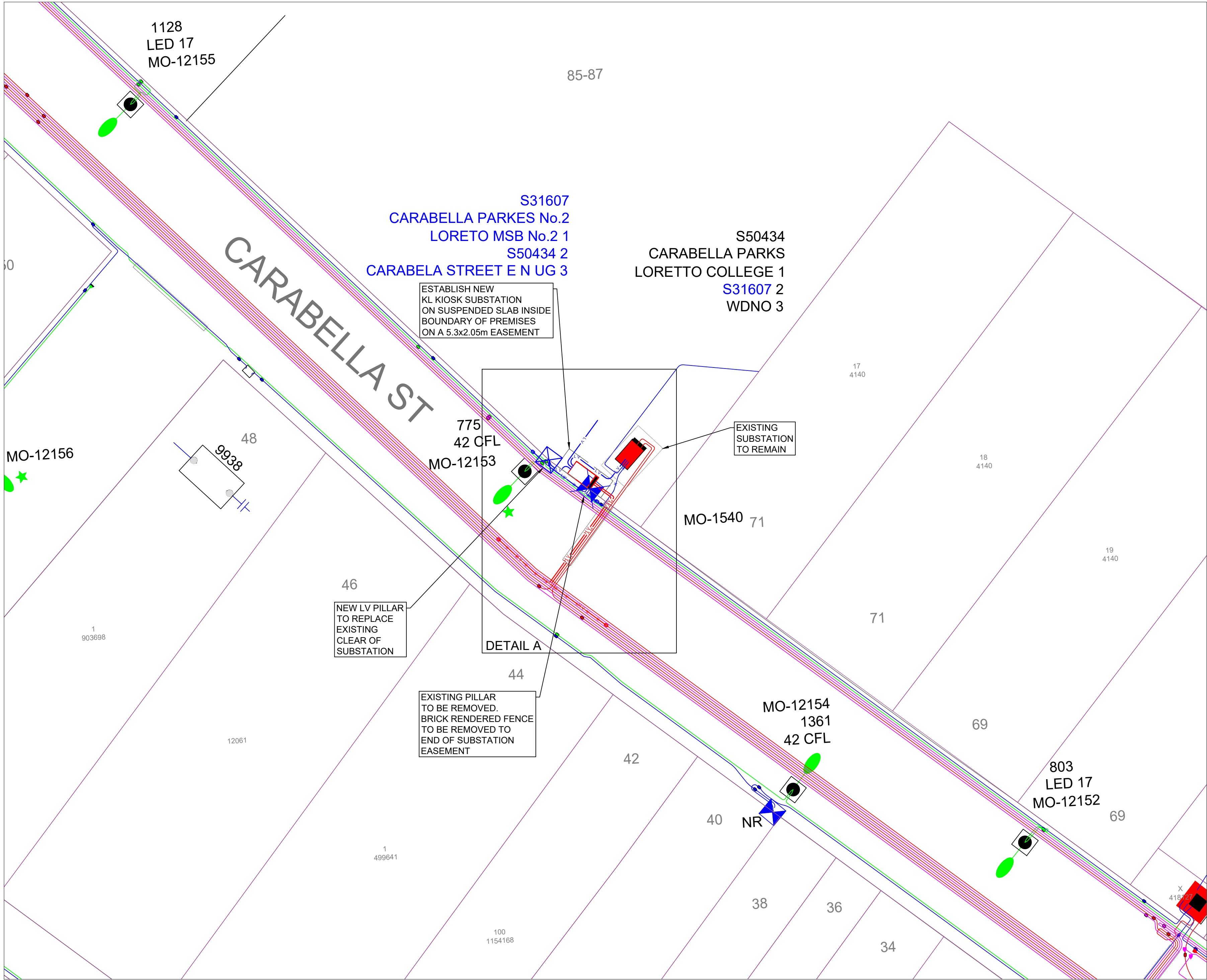
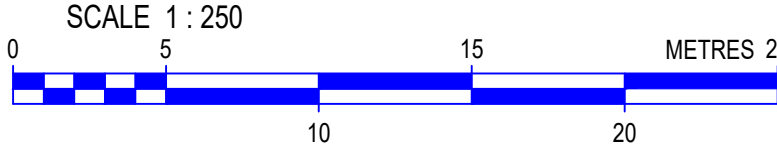


CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATION



SITE PLAN
SCALE 1:250

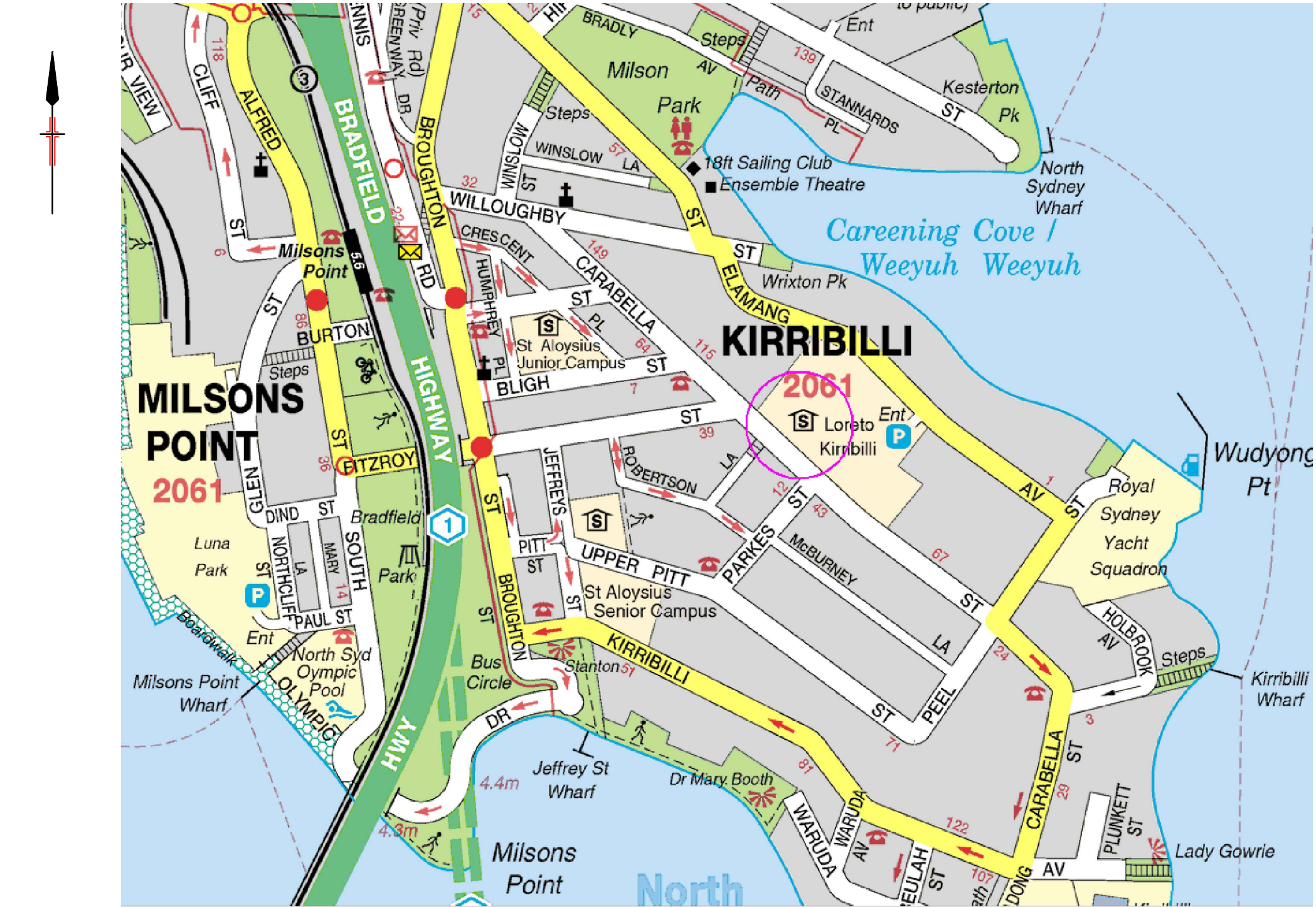


WARNING

- 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.
- DUE CONSIDERATION OF EXISTING SERVICES HAS BEEN CARRIED OUT IN DESIGN. HOWEVER, THE PROJECT CONSTRUCTOR IS WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES & SURVEY WORKS BEFORE CONSTRUCTION. NO RESPONSIBILITY OR LIABILITY WILL BE ACCEPTABLE OF INFORMATION GIVEN OR DAMAGE TO EXISTING SERVICES IN THE VICINITY OF THE WORKS.

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.

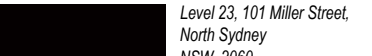


GEOGRAPHICAL LOCATION
NOT TO SCALE
UBD MAP: 7 P-16

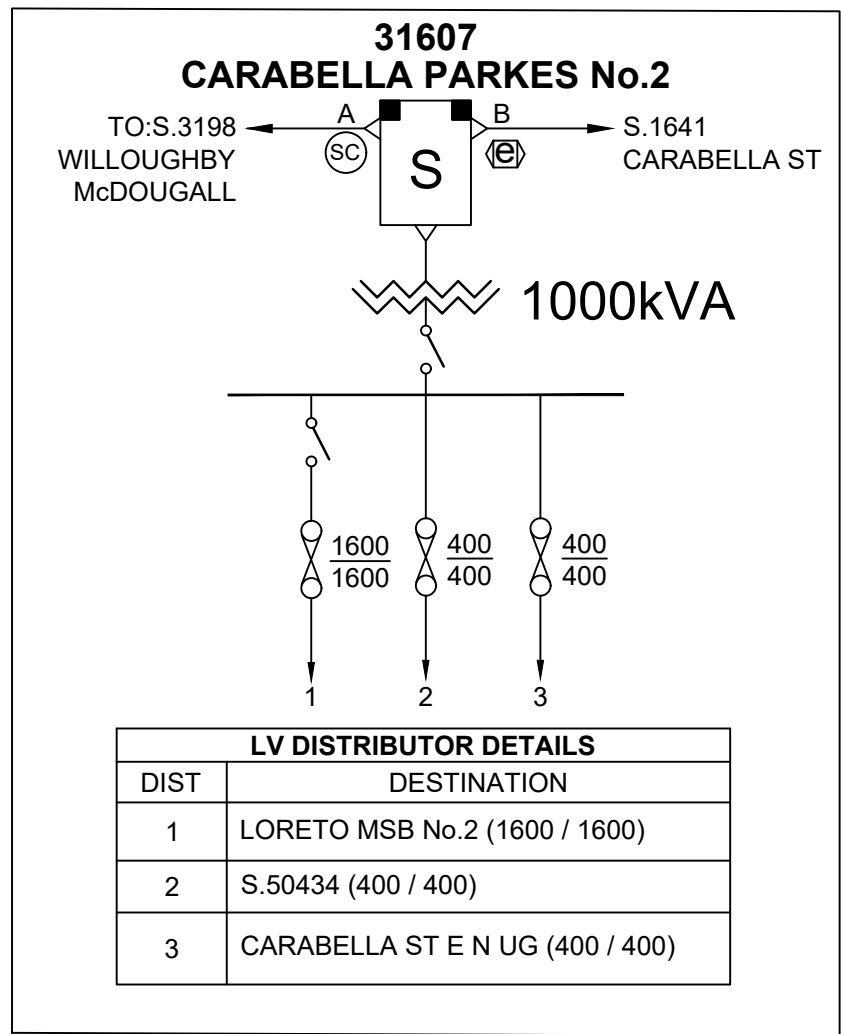
NOTES:

- ALL WORKS TO BE IN ACCORDANCE WITH LATEST AUSGRID NETWORK STANDARDS & AUSGRID STANDARD DRAWINGS.
- 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 ASP1 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 ASP1 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 ASP1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- THE ASP1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).
- FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELED AS PER THE CERTIFIED DESIGN DRAWING.
- ALL FOOTWAYS, ROADWAYS AND NATURE STRIPS TO BE REINSTATED IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS AND NS130.
- BACKFILL MATERIAL TO BE INSTALLED IN ACCORDANCE WITH NS130.
- UNDERGROUND SERVICES CHECK MUST BE CARRIED OUT PRIOR TO EXCAVATION.
- PROVIDE PEDESTRIAN AND VEHICLE ACCESS AS PER COUNCIL REQUIREMENTS FOR THE DURATION OF CONSTRUCTION.
- ASP1 TO ADHERE TO REQUIRED CONDITIONS BY ALL 3rd PARTY ASSETS OWNERS.
- THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND & PROPERTY INFORMATION ©2016. USED UNDER CREATIVE COMMONS LICENSE VERSION 4.0
- ALL REDUNDANT EQUIPMENT TO BE REMOVED FROM SERVICE AND RETURNED TO AUSGRID'S NEAREST DEPOT.
- DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THESE DRAWINGS. QUANTITY & DIMENSIONS ARE BASED ON DESIGN INFORMATION & SITE CONDITIONS AT THE TIME OF THE DESIGN. AS QUANTITIES & DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES & DIMENSIONS ON SITE PRIOR TO TENDERING & CONSTRUCTION.

ASSET REMOVED		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING	
Pole - to be removed		Pole		USL		UGOH		UGOH		UGOH		UGOH	
Column - to be removed		SL Standard		ABS		Joint		Joint		Joint		Joint	
SL - to be removed		Pillar Standard		IDT		Conduit		Conduit		Conduit		Conduit	
OH Mains - to be removed		LV Pillar		Kiosk Sub		OH Lines		OH Lines		OH Lines		OH Lines	
UG Mains - to be removed		LV Link Pillar		Chamber Sub		UG Cables		UG Cables		UG Cables		UG Cables	
USL - to be removed		Streetlight		Pole Sub		5V		5V		5V		5V	
Pole Sub - to be removed		Streetlight - PEC		Two Pole Sub		1V		1V		1V		1V	
Joint - to be removed		Streetlight - Replace				3V		3V		3V		3V	

CAD DRAWING 20160817 AMENDMENTS					 Level 23, 101 Miller Street, North Sydney NSW 2060 Australia +61 (02) 9437 1000 general@jhaengineers.com.au www.jhaservices.com ASP / 3 3342	DESIGNED BY AUTH NO.	WAYNE ARMSTRONG 3342/09	ESTABLISH NEW L TYPE			H		
						SUBMIT DATE	SUBMITTED 12/11/19	1000 kVA KIOSK S31607					
						LGA	NORTH SYDNEY	CARABELLA PARKES No.2					
						MAP REF.	7 P-16	LORETO KIRIBILLI					
						AUSGRID REF.	MO-74	85 CARABELLA ST KIRIBILLI					
				PRJ/TRAJ No.	XCC015067				AUSGRID PROJECT No.			SHEETS	AMD.
CONFIRMATION OF DISPENSATION FOR SITE PLAN B-26/9/19		-			ASP REF.	180484	# # / # #		SIZE A1	AN-20168		1 of 5	0
19068 - S02 SUBSTATION LAYOUT AND DETAILS		0											
19068 - S01 NOTES		0											
19068 - A01 SUBSTATION PLAN, ELEVATION AND SECTION		0											
ASSOCIATED DRAWINGS				CERTIFICATION NUMBER		# # / # #							

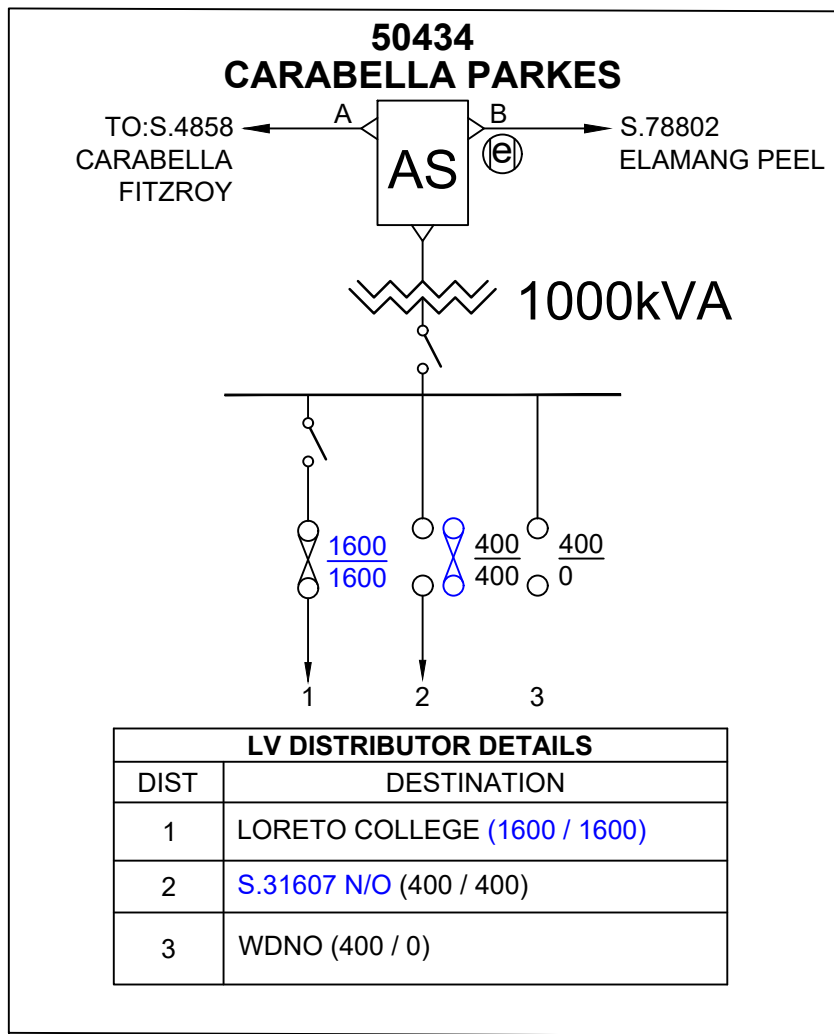
PROPOSED KIOSK SUBSTATION



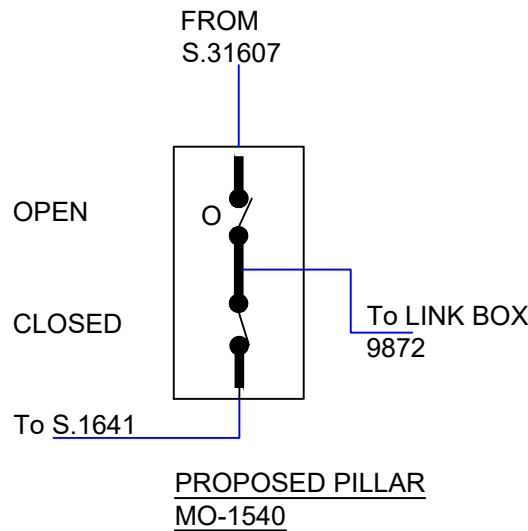
KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	CARABELLA PARKES No.2
SUBSTATION NUMBER:	31607
ADDRESS:	85 CARABELLA ST KIRRIBILLI
SUBSTATION TYPE:	KL
SIZE (kVA):	1000
VECTOR GROUP:	Dyn1
TAP SETTING:	11000 / 433 TAP 4
HV SWITCHGEAR:	SCHNEIDER ELECTRIC RMI
HV FUSE DETAILS:	100A SIBA 30.20.93.100
LOAD CYCLE:	COMMERCIAL
PHASING DETAIL:	PHASING TO BE VERIFIED ON SITE AND TO MATCH EXISTING NETWORK
LOW VOLTAGE BOARD:	1600 / 400 /400
TRANSF. LV LINK RATING:	2000A
CCT1 LV FUSE SIZE (Amps):	1600
CCT2 LV FUSE SIZE (Amps):	400
CCT3 LV FUSE SIZE (Amps):	400
CONFIGURE AS Dyn11:	NO
EARTHING REQUIREMENTS:	AS PER NS116 - SME
SUBSTATION PIERING:	AS PER NS141 DRAWING 151572 AND SITE SPECIFIC SUSPENDE SLAB ARRANGEMENT
EASEMENT PLAN DETAIL:	AS PER NS143 AND SITE SPECIFIC EASEMENT ARRANGEMENT

EXISTING KIOSK SUBSTATION

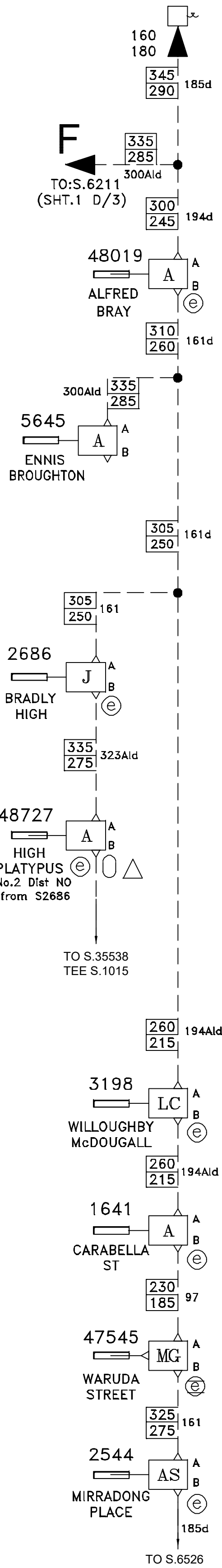
WITH CHANGES REQUIRED DENOTED IN BLUE



KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	CARABELLA PARKES
SUBSTATION NUMBER:	50434
ADDRESS:	85 CARABELLA ST KIRRIBILLI
SUBSTATION TYPE:	KL
SIZE (kVA):	1000
VECTOR GROUP:	Dyn1
TAP SETTING:	EXISTING
HV SWITCHGEAR:	EXISTING
HV FUSE DETAILS:	EXISTING
LOAD CYCLE:	COMMERCIAL
PHASING DETAIL:	EXISTING
LOW VOLTAGE BOARD:	1600 / 400 /400
TRANSF. LV LINK RATING:	2000A
CCT1 LV FUSE SIZE (Amps):	1600
CCT2 LV FUSE SIZE (Amps):	400
CCT3 LV FUSE SIZE (Amps):	400
CONFIGURE AS Dyn11:	NO
EARTHING REQUIREMENTS:	EXISTING
SUBSTATION PIERING:	EXISTING
EASEMENT PLAN DETAIL:	EXISTING

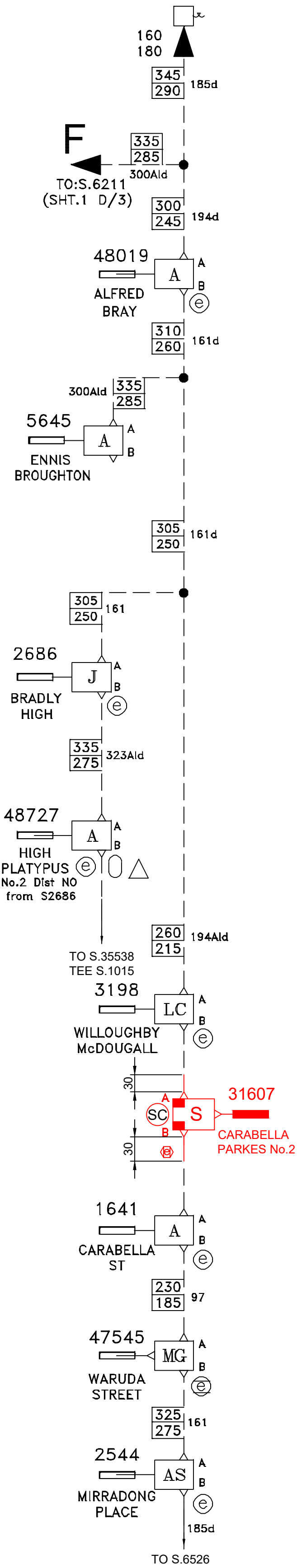


110



HV SYSTEM DIAGRAM - EXISTING
NORTH SYDNEY ZONE PANEL 110

110



HV SYSTEM DIAGRAM - PROPOSED
NORTH SYDNEY ZONE PANEL 110

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.

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.
- DUE CONSIDERATION OF EXISTING SERVICES HAS BEEN CARRIED OUT IN DESIGN. HOWEVER, THE PROJECT CONSTRUCTOR IS WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES & SURVEY WORKS BEFORE CONSTRUCTION. NO RESPONSIBILITY OR LIABILITY WILL BE ACCEPTABLE OF INFORMATION GIVEN OR DAMAGE TO EXISTING SERVICES IN THE VICINITY OF THE WORKS.

CAD DRAWING
20160817

AMENDMENTS

CONFIRMATION OF DISPENSATION FOR SITE PLAN B-26/9/19

19068 - S02 SUBSTATION LAYOUT AND DETAILS

19068 - S01 NOTES

19068 - A01 SUBSTATION PLAN, ELEVATION AND SECTION

ASSOCIATED DRAWINGS



Level 23, 101 Miller Street,
North Sydney
NSW 2060
Australia
+61 (02) 9437 1000
general@jhaengineers.com.au
www.jhaengineers.com.au
ASP / 3 # 3342

ASP REF: 180484

CERTIFICATION NUMBER

DESIGNED BY WAYNE ARMSTRONG
AUTH NO. 3342/09
SUBMIT DATE SUBMITTED 12/11/19
LGA NORTH SYDNEY
MAP REF. 7 P-16
AUSGRID REF. MO-74
PRJTRAK No. XCC015067

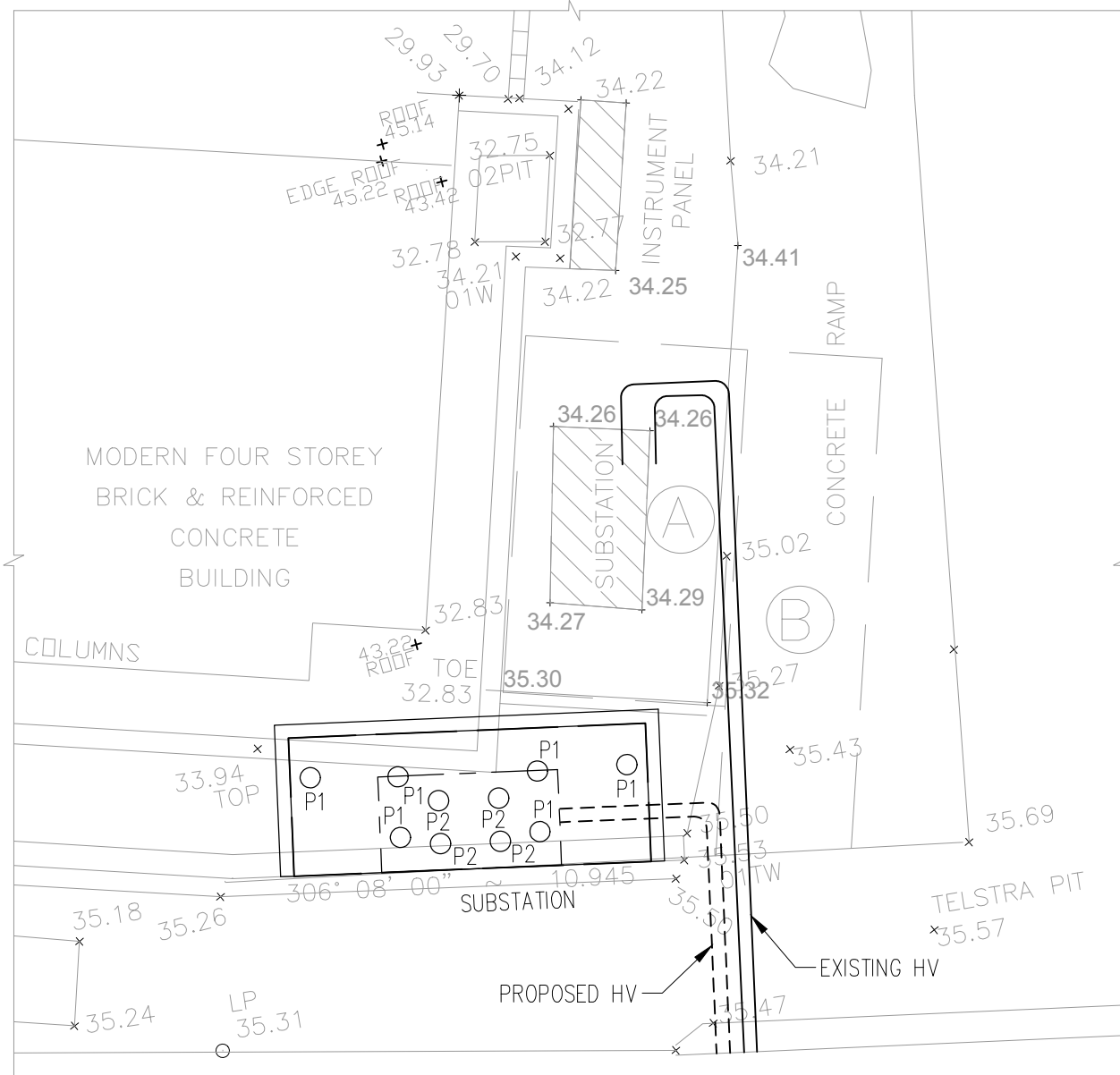
/

ESTABLISH NEW L TYPE
1000 kVA KIOSK S31607
CARABELLA PARKES No.2
LORETO KIRRIBILLI
85 CARABELLA ST KIRRIBILLI

A1 AN-20168

3 of 5

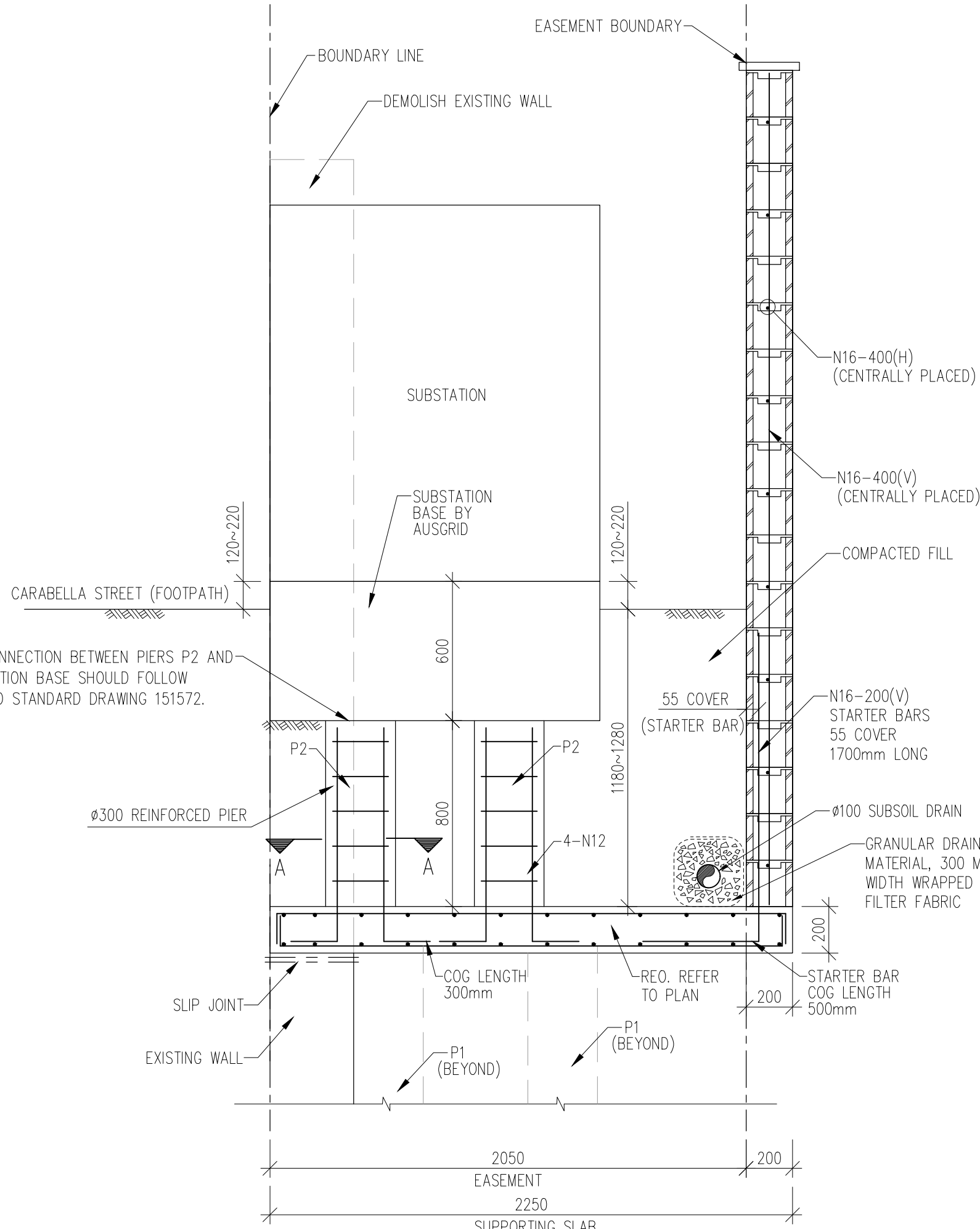
0



SUBSTATION LAYOUT PLAN

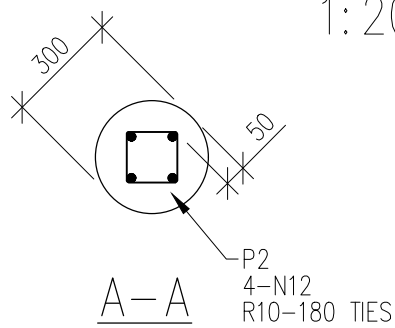
NOTE: SURVEY PLAN REFERS TO 'DETAIL AND LEVELS PLAN' (DRAWING NO. 6551_ISSUE B) ISSUED ON 10/01/2017 BY HAMMOND SMEALLIE & Co Pty Ltd CONSULTING SURVEYORS AND TOWN PLANNERS

— EXISTING HV, DETAIL REFERS TO DRAWING AN-20168 ISSUED BY JHA
- - - PROPOSED HV, DETAIL REFERS TO DRAWING AN-20168 ISSUED BY JHA

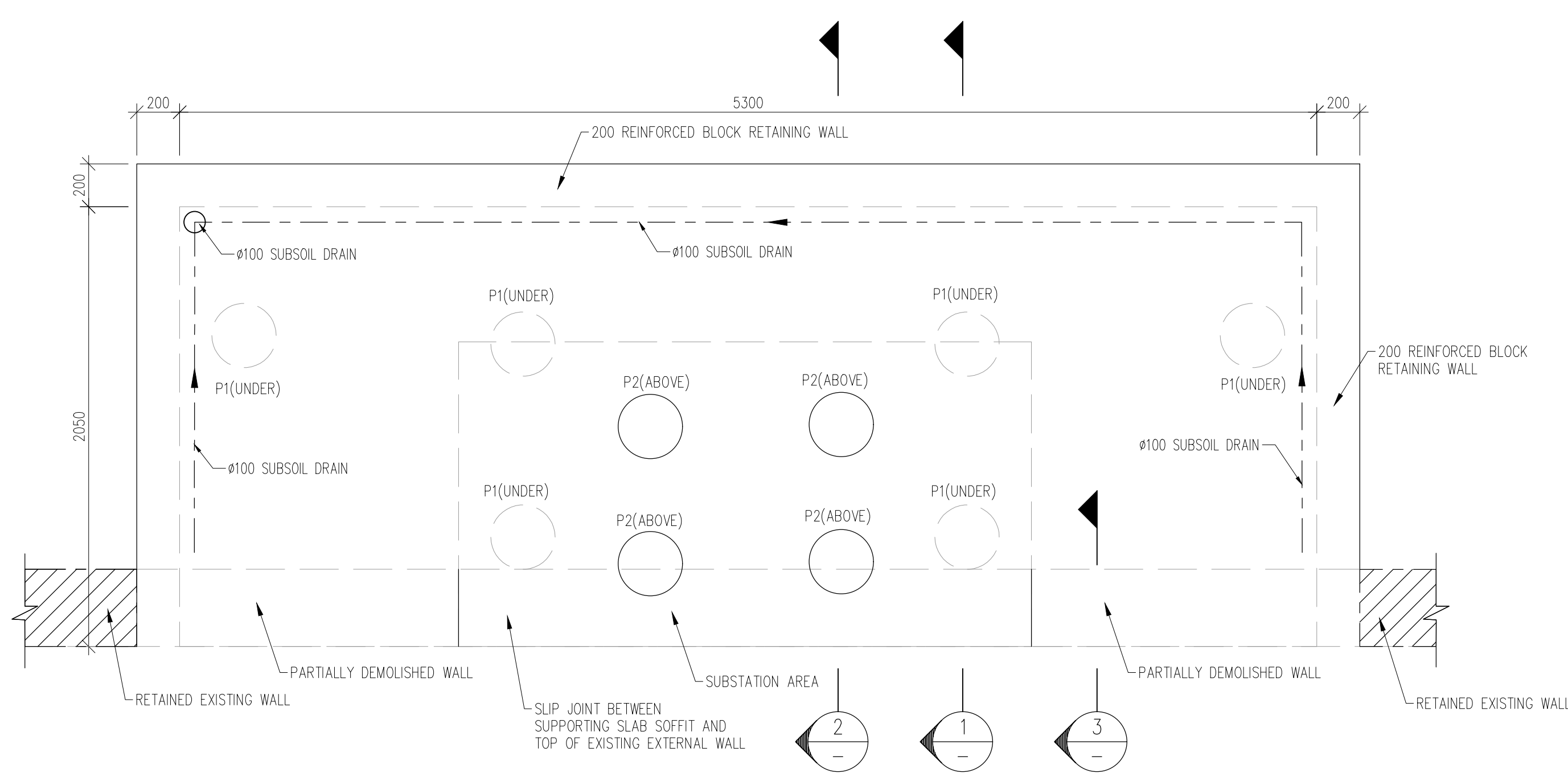


SECTION 2

1:20

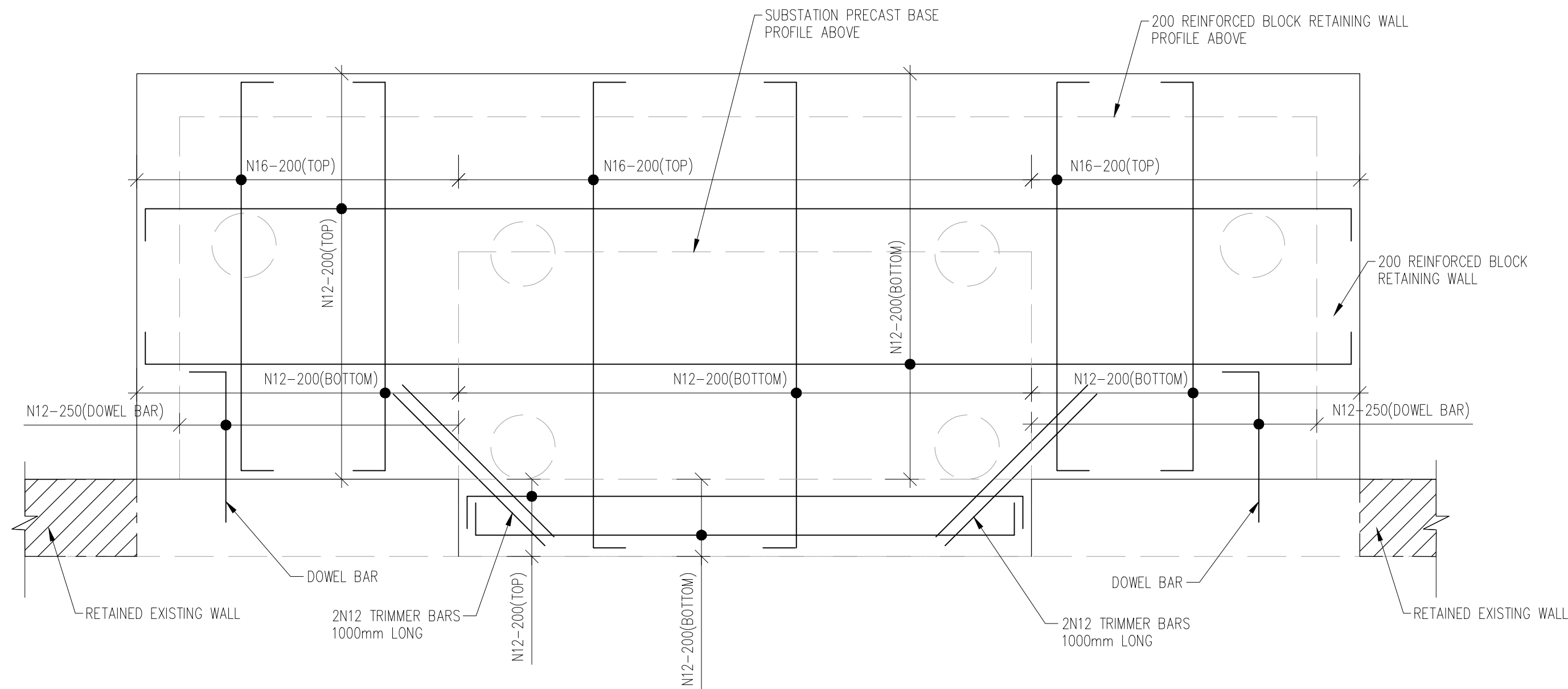


NOTE: THE LOCATION OF P2 SHOULD BE CHECKED AND CONFIRMED WITH AUSGRID STANDARD DRAWING 151572. THE CONNECTION BETWEEN PIERS P2 AND SUBSTATION BASE SHOULD FOLLOW AUSGRID STANDARD DRAWING 151572.



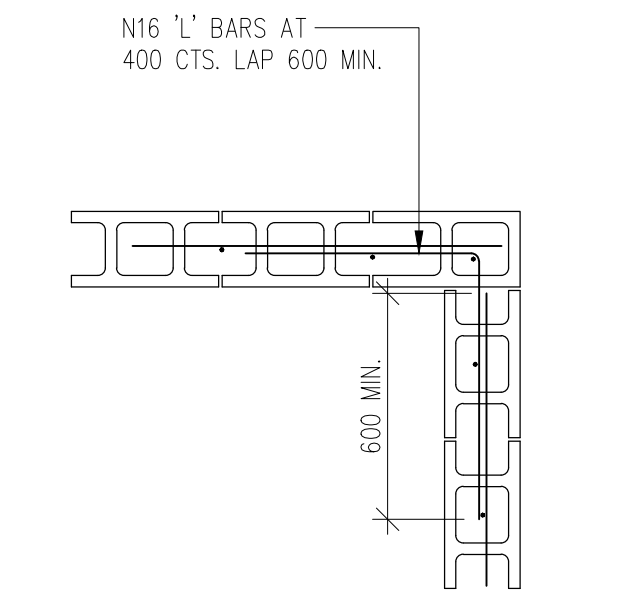
SUBSTATION LAYOUT AND SUPPORTING SLAB PLAN

NOTE: 1. SLAB THICKNESS IS 200mm.
2. THE LOCATION OF P2 SHOULD BE CHECKED AND CONFIRMED WITH AUSGRID STANDARD DRAWING 151572

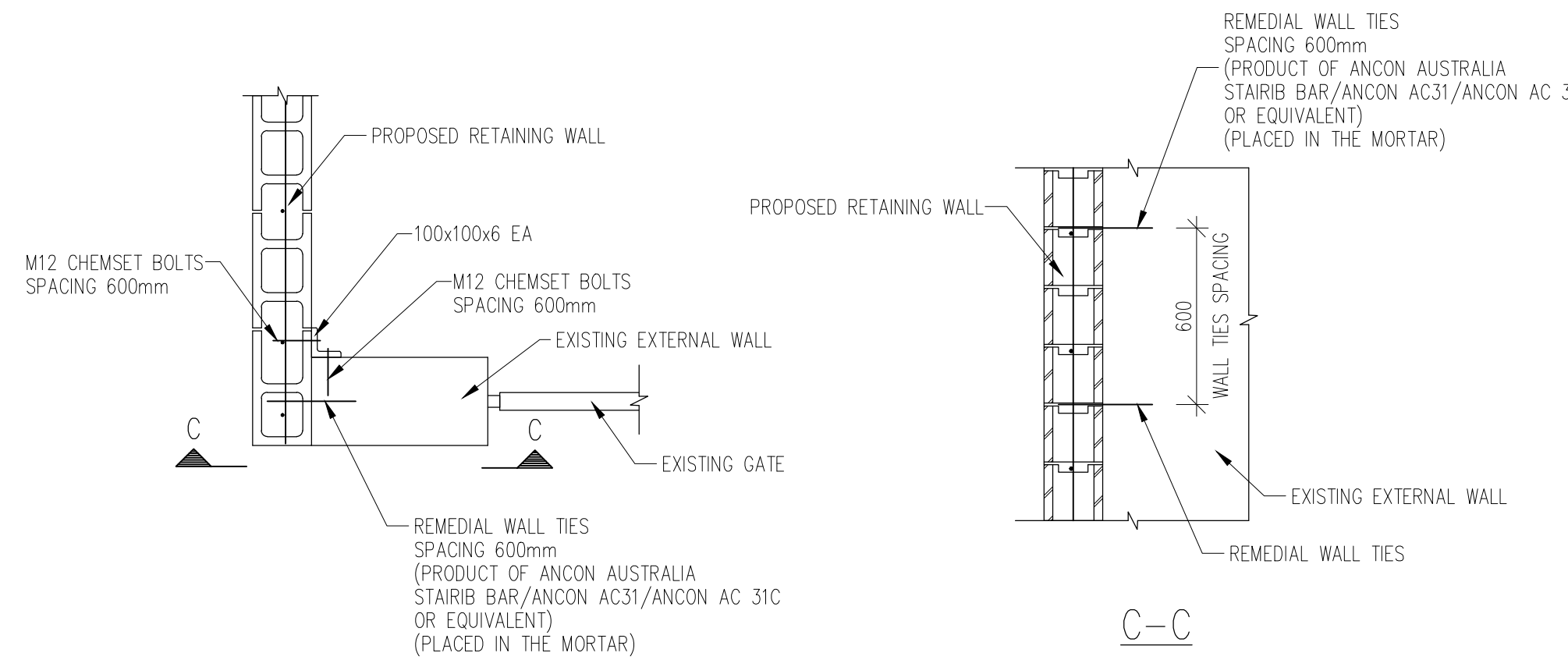


SUPPORTING SLAB REINFORCEMENT PLAN

○ Ø300 REINFORCED CONCRETE PIER BEARING ON UNIFORM MATERIAL WITH 300mm SOCKET INTO ASSUMED SANDSTONE. THE ASSUMED ALLOWABLE BEARING PRESSURE OF ASSUMED SANDSTONE IS 3500 kPa.



BLOCKWORK CORNER DETAIL



C-C

SECTION 1

1:20

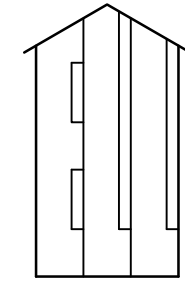
© COPYRIGHT Michael Ell Consulting Engineers Pty. Ltd.
The copyright of this drawing remains the property of Michael Ell Consulting Engineers Pty. Ltd. and must not be reproduced in whole or in part without written permission. Do not scale off this drawing. Use figured dimensions. Verify all dimensions on site.

A1

Letter	Amendment	By	Date
A	ISSUE FOR AMENDMENT	EZ	11.11.19

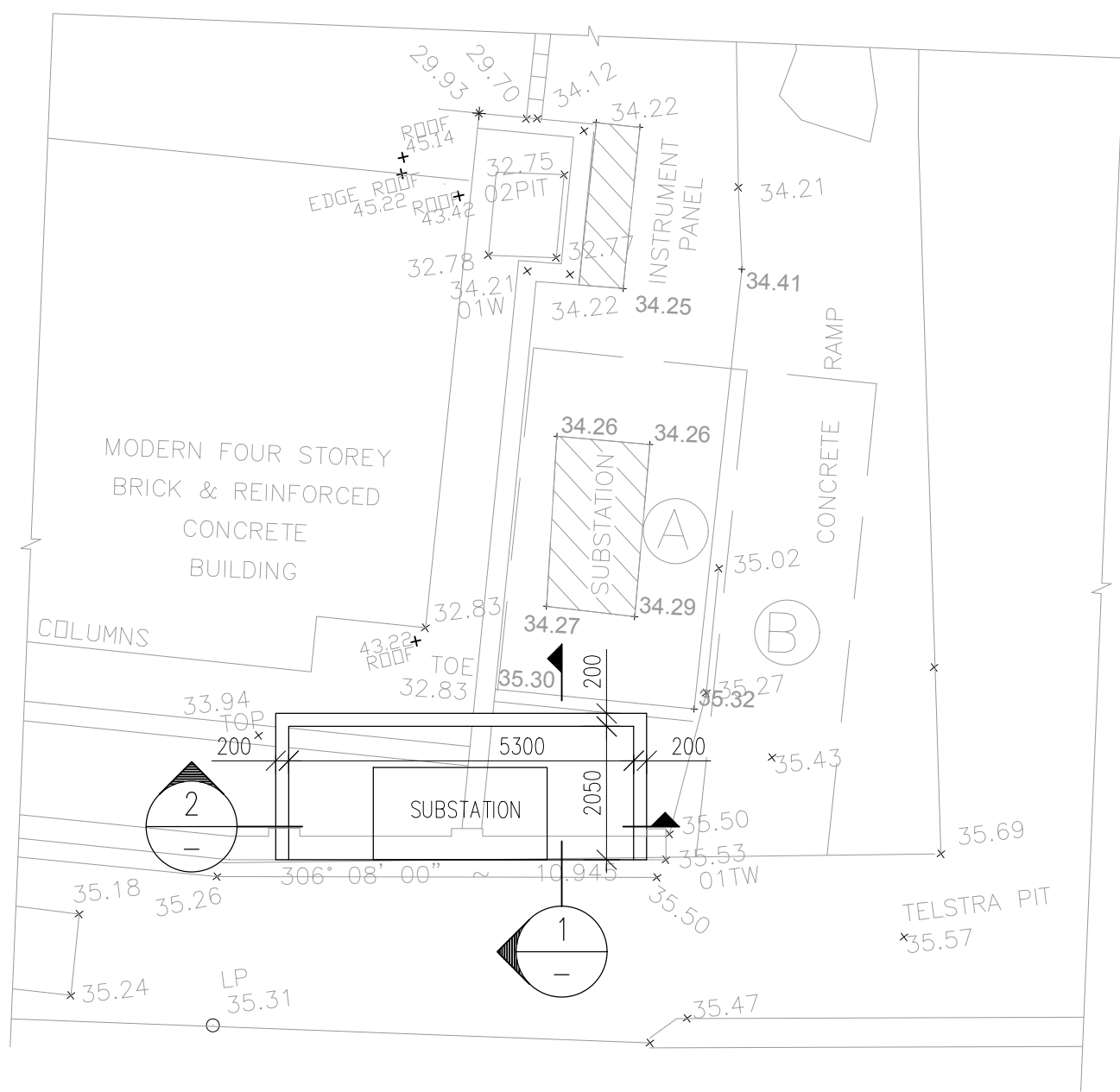
85 CARABELLA STREET
KIRIBILLI

SUBSTATION LAYOUT AND DETAILS

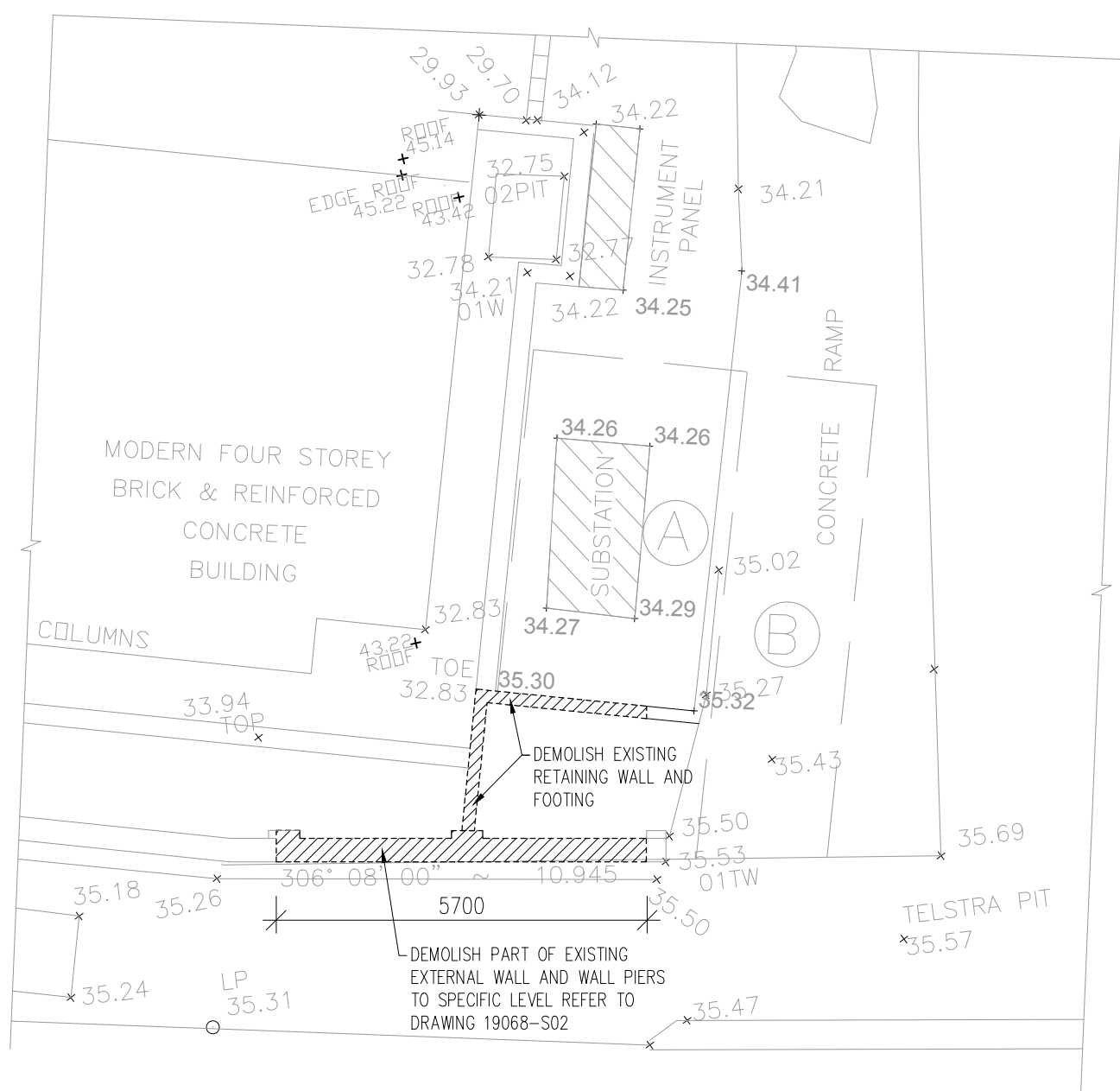


MICHAEL ELL
CONSULTING ENGINEERS PTY. LTD. A.B.N. 59 096 328 988
STRUCTURAL, STORMWATER & CIVIL ENGINEERS
Postal Address: P.O. Box 136, West Ryde N.S.W. 1685
Office Address: 5/1 Maxim Street, West Ryde NSW 2114
Tel: (02) 9807 5355 Fax: (02) 9807 5366
Mobile: 0428 213 490
Email: eng@ell.com.au

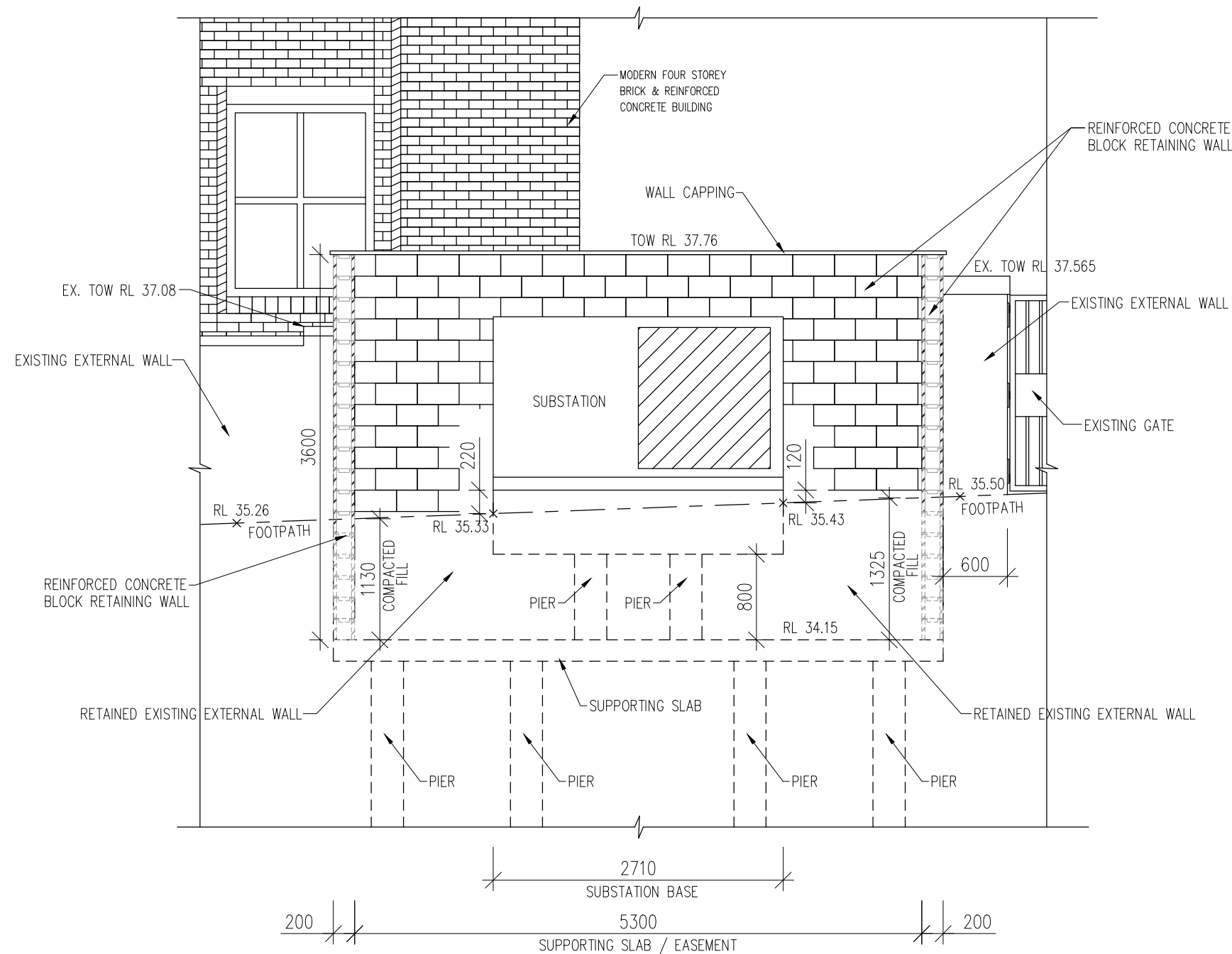
Drawn	Designed	Checked	Approved
EZ	EZ	ME	B.E. (Civil) M.I.E. (AUST) C.P. Eng. Registered on NPER-3 for Michael Ell Consulting Engineers Pty. Ltd.
Scale			
A1 1:100			
Date	File No.	Sheet Rev.	Job No.
11.10.19	19068-S02	02 A	19068



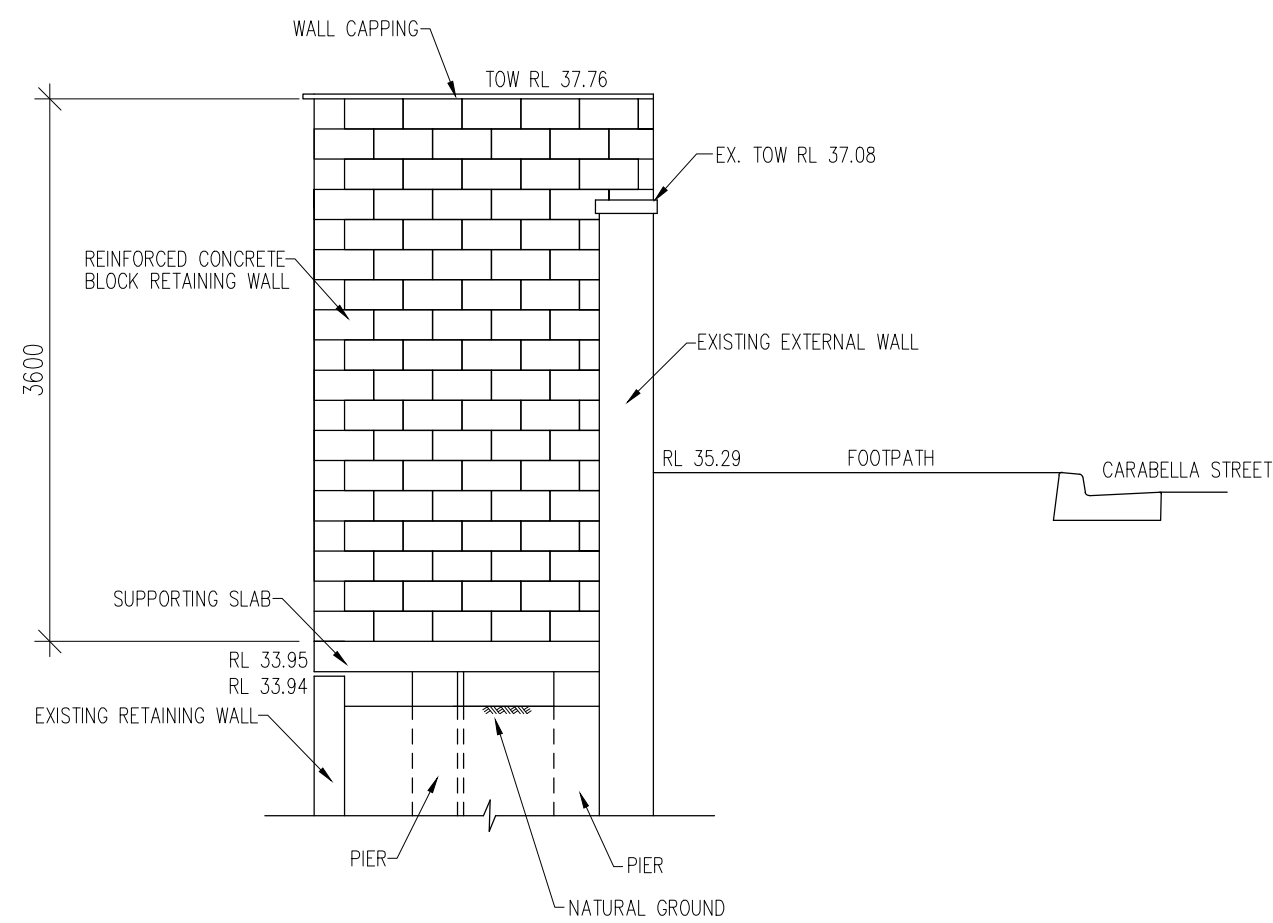
SUBSTATION LAYOUT PLAN
SCALE: 1:100



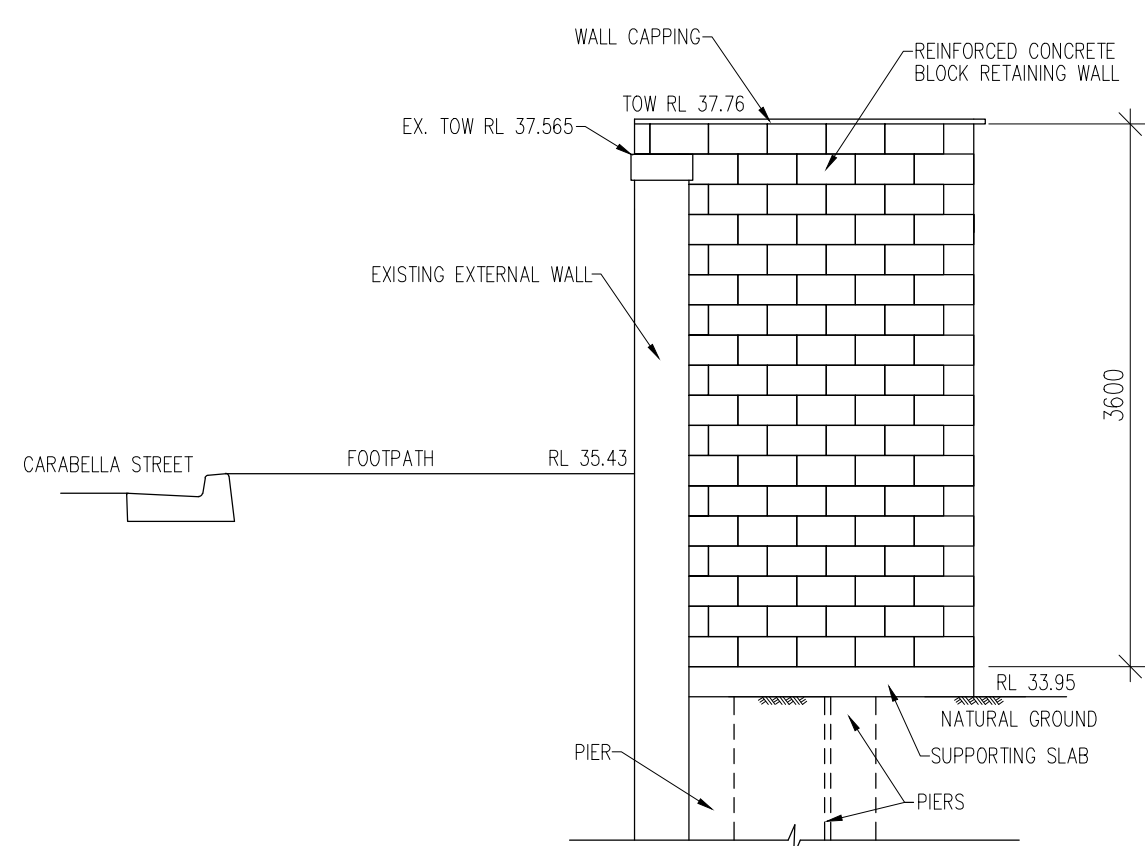
DEMOLITION PLAN
SCALE: 1:100
DENOTES DEMOLISHED EXISTING STRUCTURE



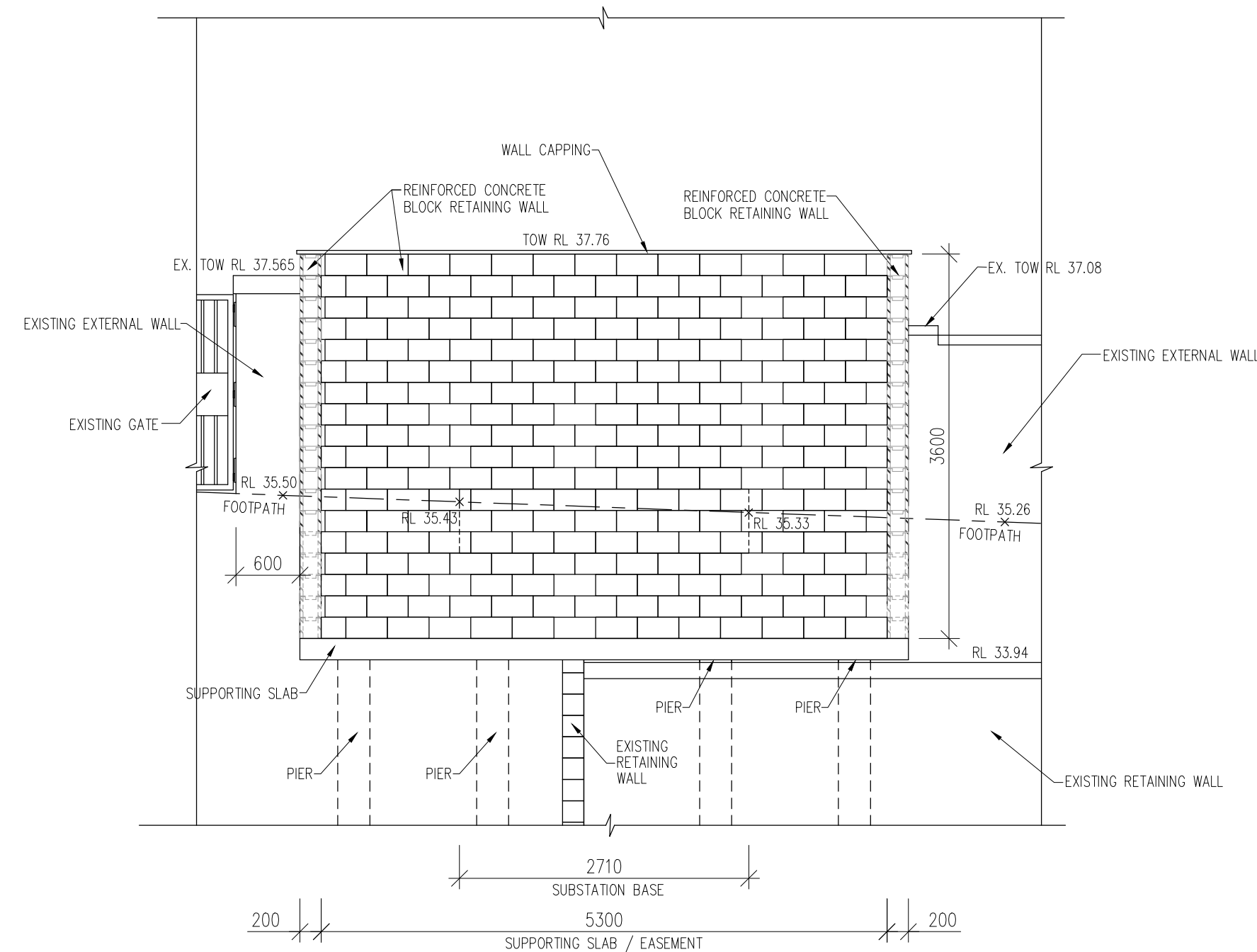
SOUTH-WEST ELEVATION
SCALE: 1:50



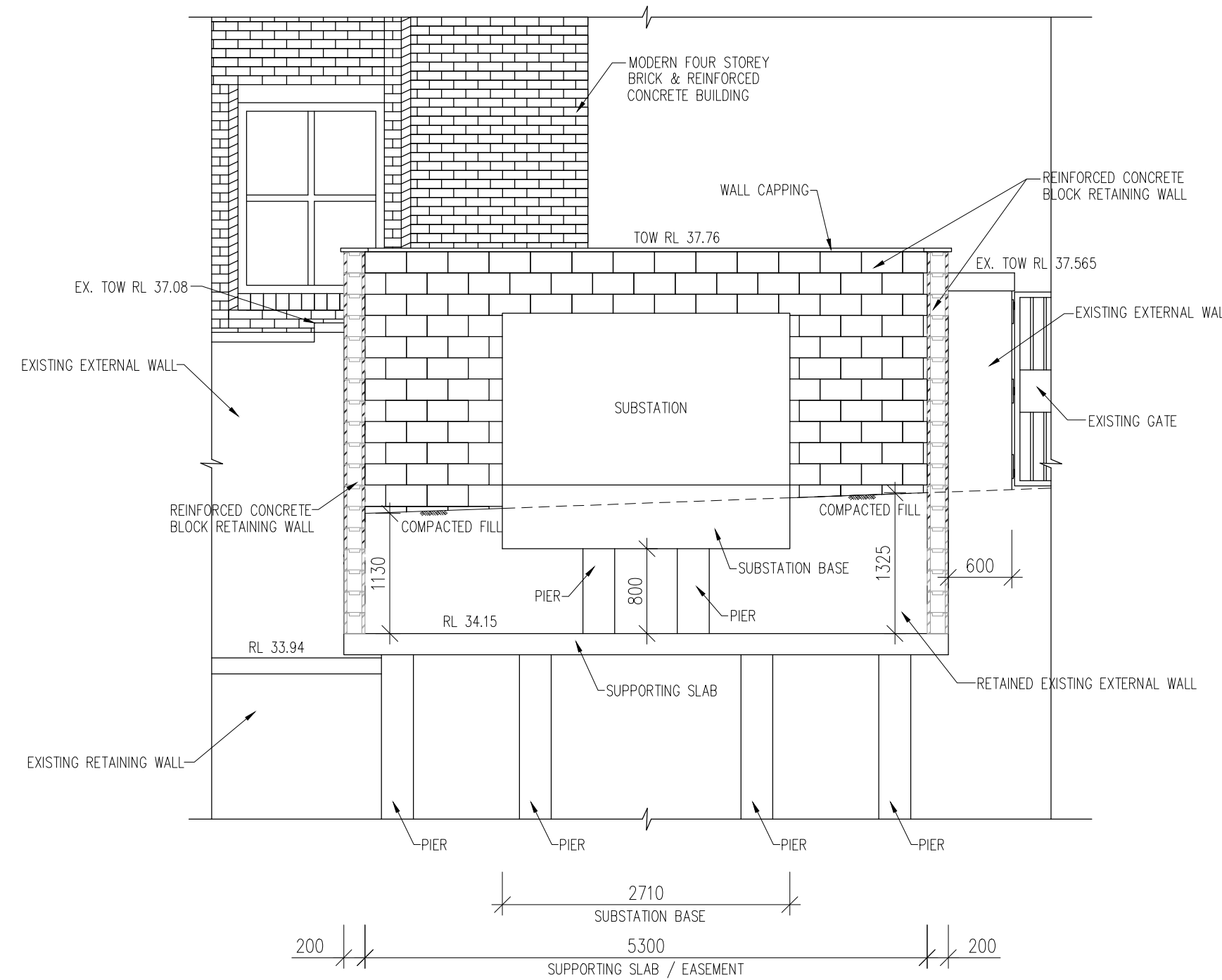
NORTH-WEST ELEVATION
SCALE: 1:50



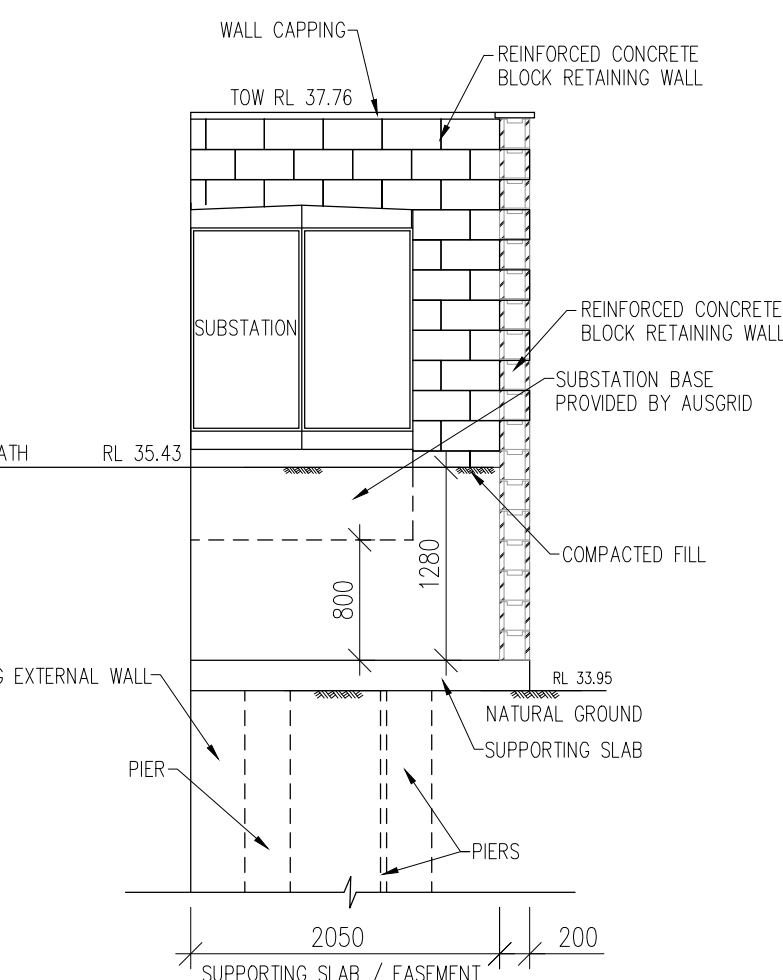
SOUTH-EAST ELEVATION
SCALE: 1:50



NORTH-EAST ELEVATION
SCALE: 1:50



SECTION 2
1:50



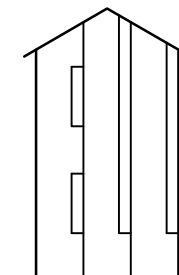
SECTION 1
1:50

© COPYRIGHT Michael Ell Consulting Engineers Pty. Ltd.
The copywrite of this drawing remains the property
of Michael Ell Consulting Engineers Pty. Ltd. and
must not be reproduced in whole or in part without
written permission. Do not scale off this drawing.
Use figured dimensions. Verify all dimensions on site.

A1 Letter 100

A ISSUE FOR AMENDMENT
Amendment
EZ 11.11.19
By Date

85 CARABELLA STREET
KIRRIBILLI
SUBSTATION PLAN, ELEVATION AND SECTION



MICHAEL ELL
CONSULTING ENGINEERS PTY. LTD. A.B.N. 59 096 328 988
STRUCTURAL, STORMWATER & CIVIL ENGINEERS
Postal Address: P.O. Box 136, West Ryde N.S.W. 1685
Office Address: 5/1 Maxim Street, West Ryde NSW 2114
Tel: (02) 9807 5355 Fax: (02) 9807 5366
Mobile: 0428 213 490
Email: eng@mell.com.au

Drawn	Designed	Checked	Approved				
EZ	EZ	ME	B.E. (Civil) M.I.E. (AUST) C.P. Eng. Registered on NPER-3 for Michael Ell Consulting Engineers Pty. Ltd.				
Scale A1 1:100			Date 11.10.19	File No. 19068-A01	Sheet 01	Rev. A	Job No. 19068