

- ## NOTES

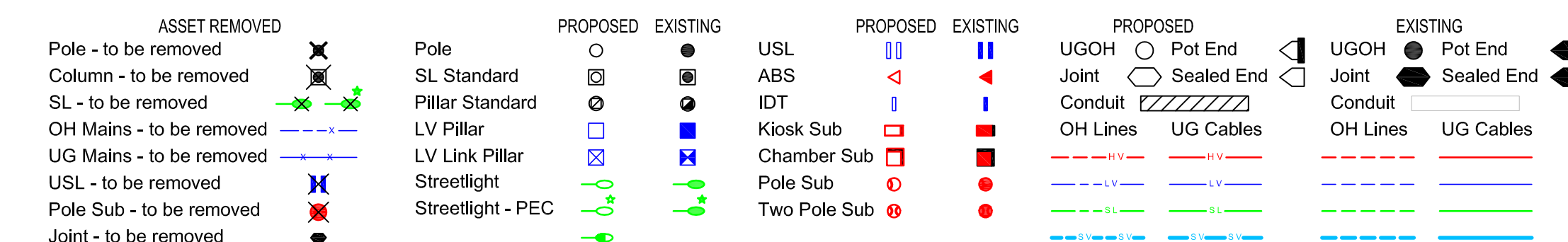
1. CLAIM FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY THE AUSGRID WHILE THE WORKS ARE IN PROGRESS.
2. THE ASP1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
3. THE ASP1 MAY 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.
4. SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION. 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).
5. 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.
6. THE ASP1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP.
7. THE ASP1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NS211 - WORKING WITH ASBESTOS PRODUCTS).
8. ALL REDUNDANT EQUIPMENT TO BE REMOVED FROM SERVICE AND RETURNED TO AUSGRID NEAREST DEPOT.
9. 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 LABELLED AS PER THE CERTIFIED DESIGN.
10. ALL WORKS TO BE IN ACCORDANCE WITH LATEST AUSGRID NETWORK STANDARD & AUSGRID AND/OR CUSTOMER REQUIREMENTS.
11. THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND AND PROPERTY INFORMATION © 2016, USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
12. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWINGS ARE ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THE PROJECT MUST CHECK ALL QUANTITIES ON SITE PRIOR TO TENDERING AND CONSTRUCTION.

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ASP LEVEL 2 WORK

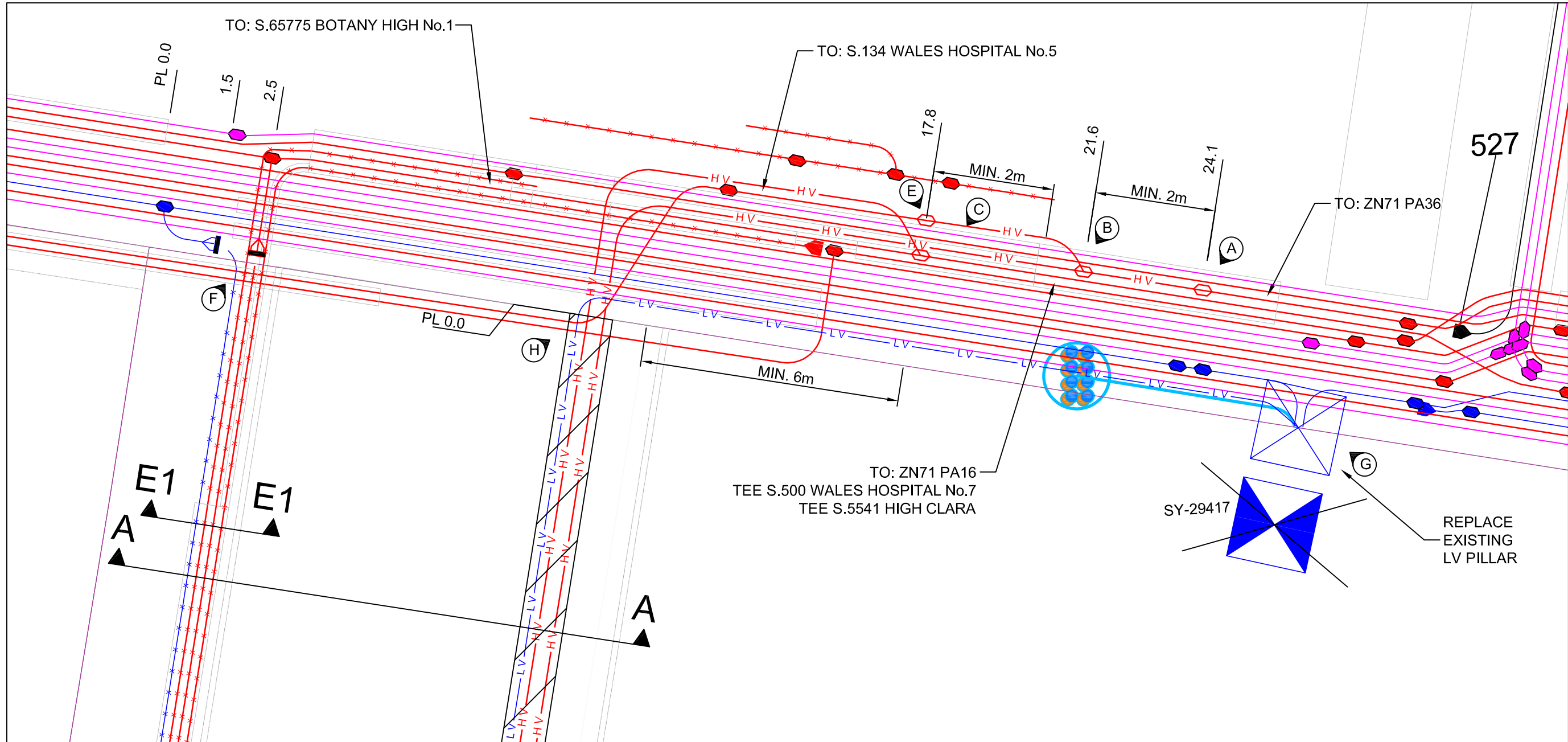
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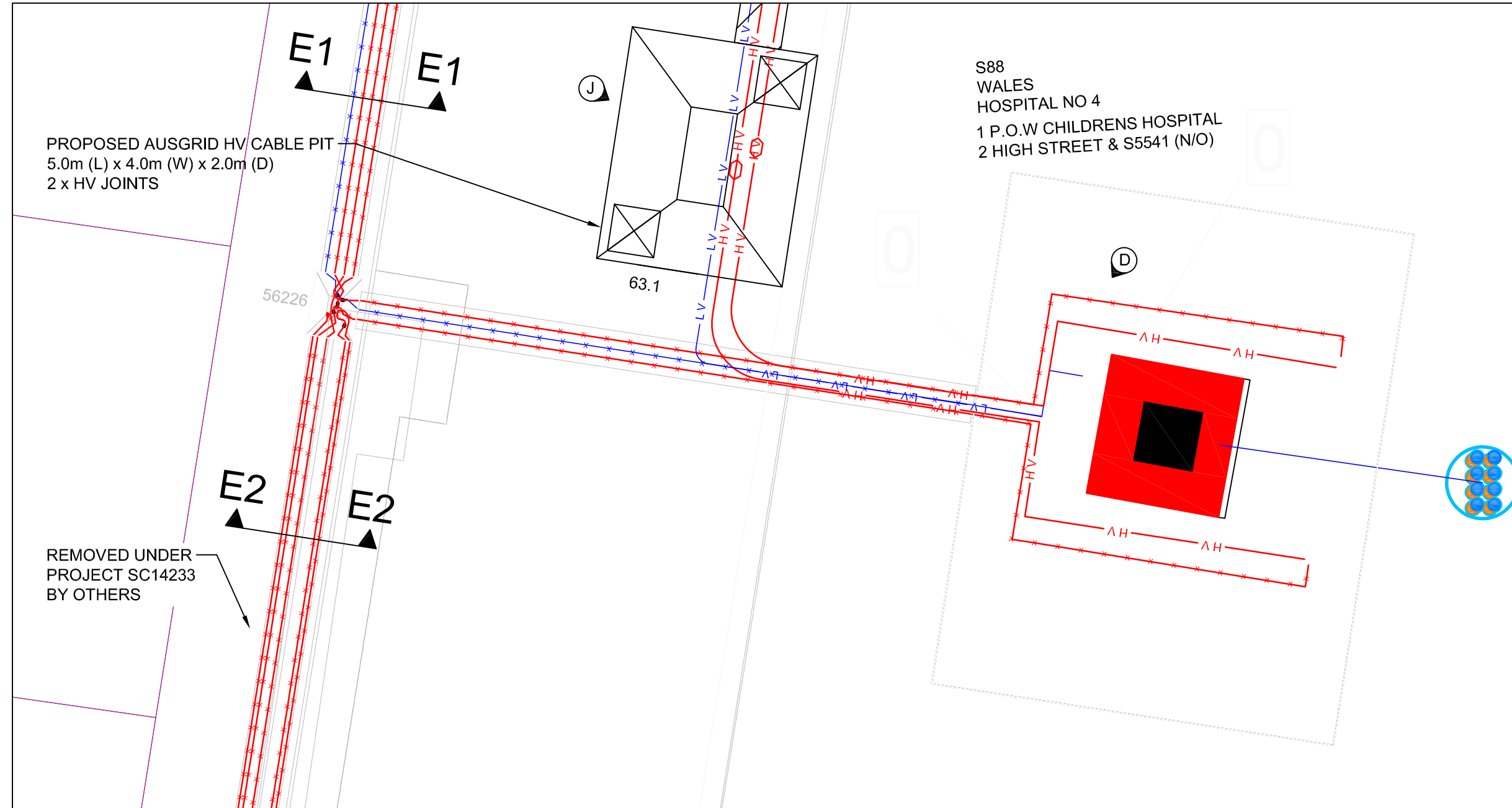
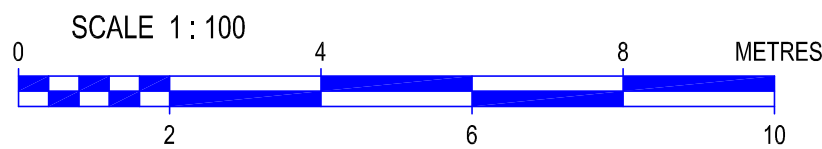
ASP3 DRAWINGS ARE WORK-IN-PROGRESS CONCEPTS AND ARE SUBJECT TO REVIEW AND CHANGES BY AUSGRID. DISCUSSIONS ARE IN MOTION TO DETERMINE FINAL ARRANGEMENTS AS PART OF THE DESIGN DETAILS PHASE.

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATION

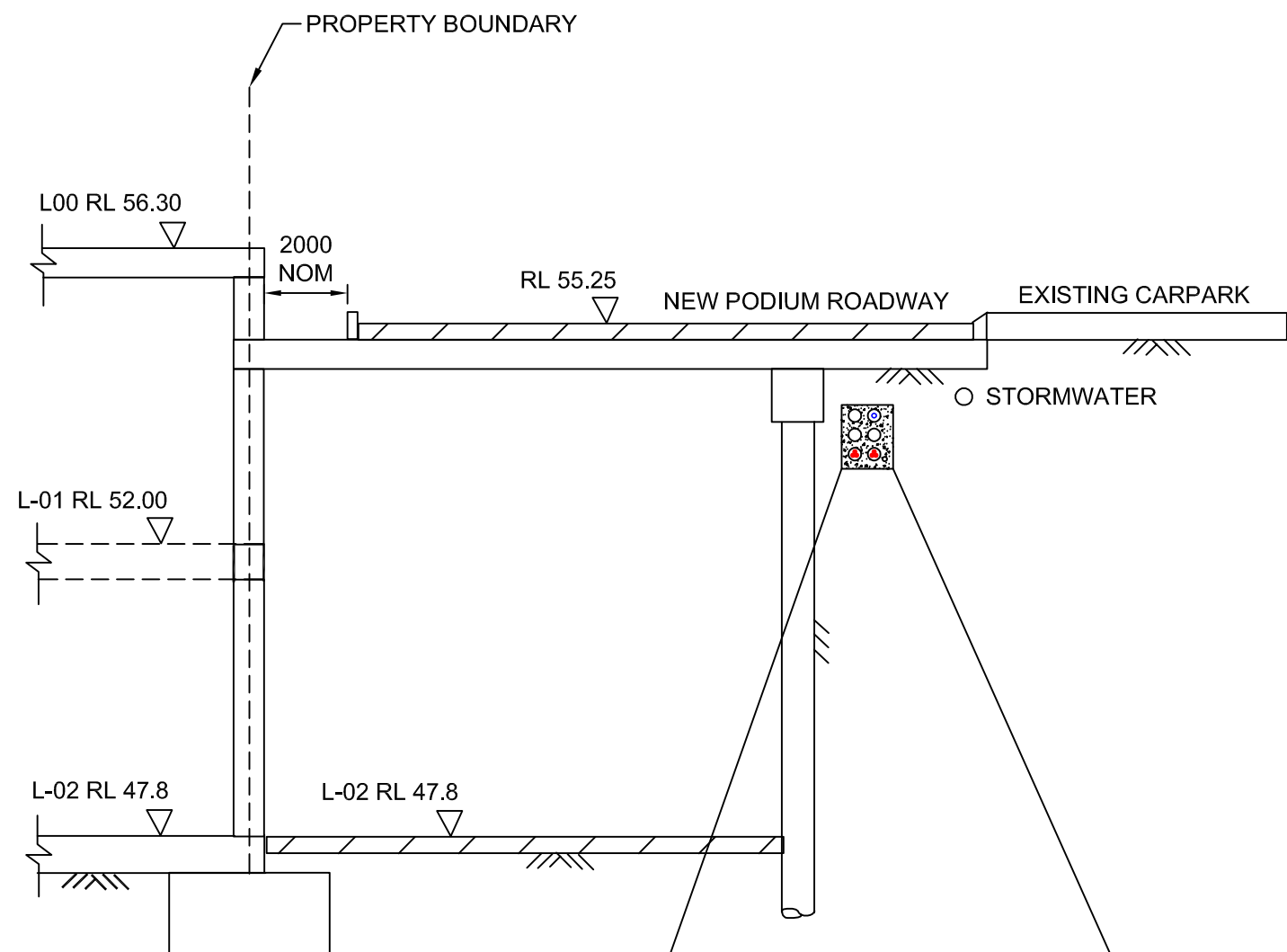
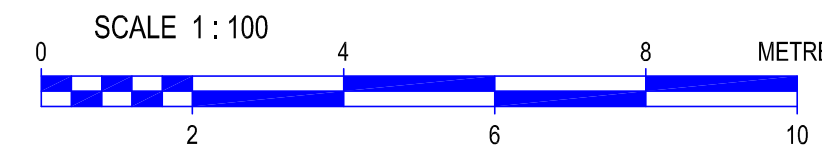
H	CAD DRAWING AMENDMENTS							HV FEEDER RELOCATION	SC14233	 <div>Level 23, 101 Miller Street, North Sydney NSW 2060 Australia +61 (02) 9437 1000 general@jhaengineers.com.au www.jhaengineers.com ASP / 3 & 3342</div>	DESIGNED BY	T.SUN	SYDNEY CHILDREN'S HOSPITAL HV FEEDER RELOCATIONS HOSPITAL ROAD RANDWICK NSW 2031			
				3342/J												
				SUBMIT DATE	SUBMITTED / /											
				LGA	RANDWICK											
				MAP REF.	UBD REF. 256 Q15											
				AUSGRID REF.	SY 83											
				PRJTRAK No.												
ASSOCIATED DRAWINGS							CERTIFICATION NUMBER		## / ##		SIZE	AUSGRID PROJECT No	SHEETS	AMD.		
											A1	AN-21294	1 of 5	0		
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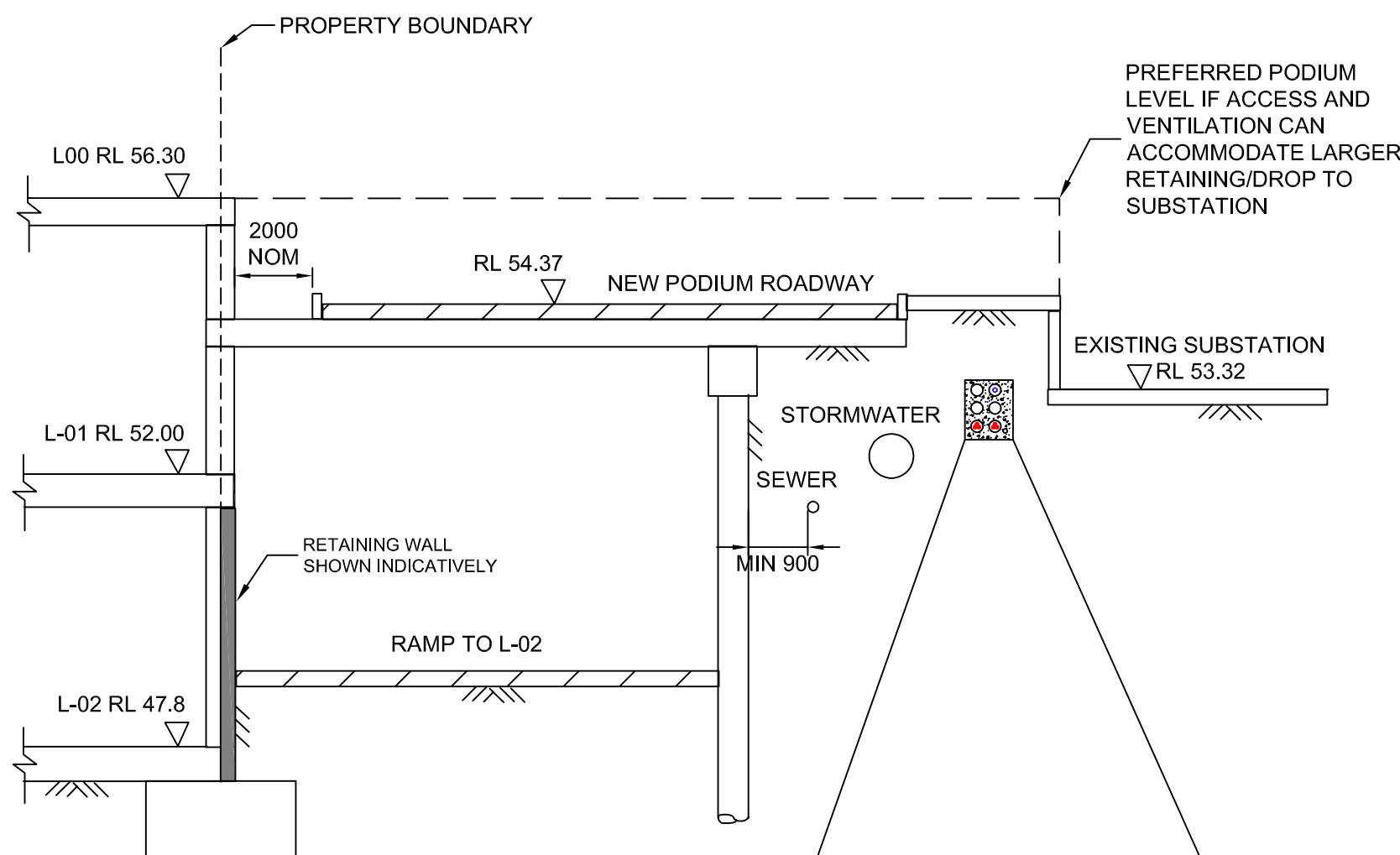
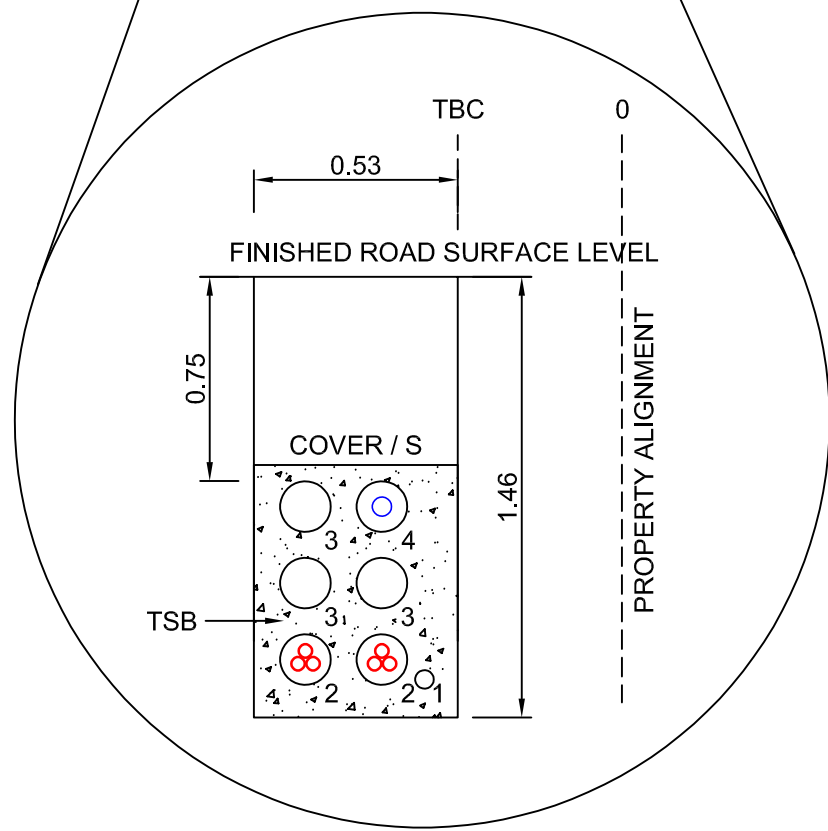
DETAILS "A"



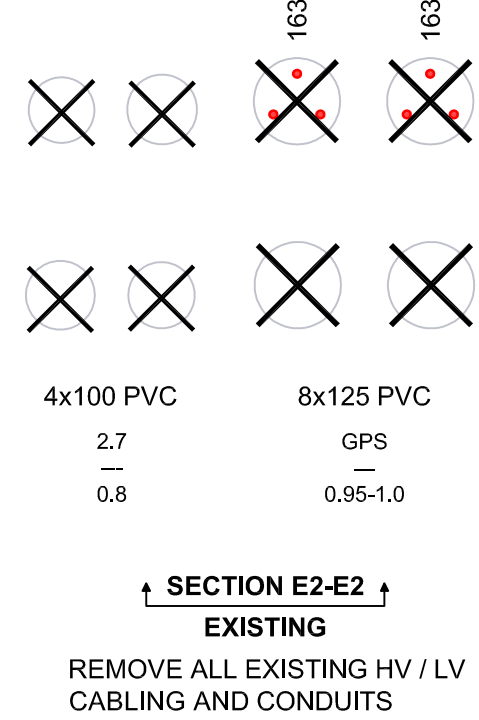
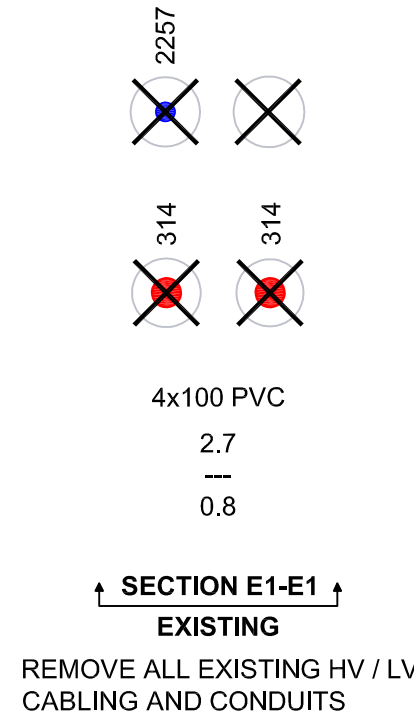
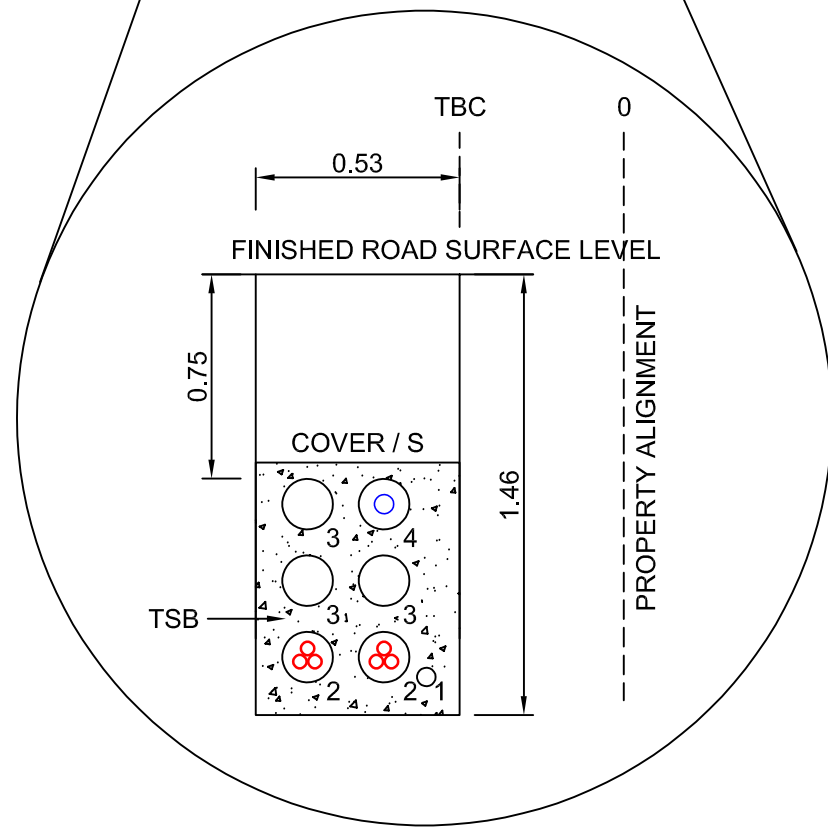
DETAILS "B"



- SECTION A-A (NEW)**
N.T.S.
1. NEW SPARE Ø63 CONDUIT
 2. NEW 300Cu1 TRIPLEX HV CABLE IN NEW Ø125 CONDUIT
 3. NEW SPARE Ø125 CONDUIT
 4. NEW LV CABLE IN NEW Ø125 CONDUIT



- SECTION B-B (NEW)**
N.T.S.
1. NEW SPARE Ø63 CONDUIT
 2. NEW 300Cu1 TRIPLEX HV CABLE IN NEW Ø125 CONDUIT
 3. NEW SPARE Ø125 CONDUIT
 4. NEW LV CABLE IN NEW Ø125 CONDUIT



NOTE:
INSTALL TSB AS PER NS130 FOR SECTIONS A-A, B-B.
SUBMIT TSB MIX TO AUSGRID FOR REVIEW AND APPROVAL PRIOR TO START OF WORKS.

ASP LEVEL 2 WORK

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CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATION

ASSET REMOVED		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING	
Pole - to be removed	✗	Pole	○	USL		UGOH	○	Pot End	○	UGOH	●	Pot End	●
Column - to be removed	✗	SL Standard	○	ABS	◁	Joint	○	Sealed End	◁	Joint	●	Sealed End	◁
SL - to be removed	✗	Pillar Standard	○	IDT		Conduit	▨	Conduit	▨	Conduit	▨	Conduit	▨
OH Mains - to be removed	✗	LV Pillar	○	Kiosk Sub	□	OH Lines	—	UG Cables	—	OH Lines	—	UG Cables	—
UG Mains - to be removed	✗	LV Link Pillar	○	Chamber Sub	□	— HV	—	—	—	— HV	—	—	—
USL - to be removed	✗	Streetlight	○	Pole Sub	□	— LV	—	—	—	— LV	—	—	—
Pole Sub - to be removed	✗	Streetlight - PEC	○	Two Pole Sub	□	— 3-11	—	—	—	— 3-11	—	—	—
Joint - to be removed	✗					— 1-1	—	—	—	— 1-1	—	—	—

HV FEEDER RELOCATION	
SC14233	
ASSOCIATED DRAWINGS	

	Level 23, 101 Miller Street, North Sydney NSW 2060 Australia	DESIGNED BY	T.SUN
	+61 (02) 9437 1000	AUTH NO.	3342/
	general@haengineers.com.au	SUBMIT DATE	---
	www.haengineers.com.au	LGA	RANDWICK
ASP REF.	200152	MAP REF.	UBD REF. 256 Q15
CERTIFICATION NUMBER	## / ##	AUSGRID REF.	SY 83
		PRJTRAK No.	

SYDNEY CHILDREN'S HOSPITAL HV FEEDER RELOCATIONS HOSPITAL ROAD RANDWICK NSW 2031			
SIZE	A1	AUSGRID PROJECT No.	AN-21294
SHEETS	2 of 5	AMD.	0

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UNDERGROUND CONSTRUCTION WORKS SCHEDULE (INSERT DETAILS OF UNDERGROUND DESIGN SOFTWARE USED)

REF. IDENTIFIER	ROUTE DISTANCE (m)	CIRCUIT VOLTAGE	CONDUCTOR OR ASSET DETAIL	CONDUCT OR CODE / STOCK CODE	MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION	MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION	CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION	CONSTRUCTION DETAIL
H - J	65m	-	1 x 63mm UPVC CONDUIT 6 x 125mm UPVC CONDUITS	-	-	-	-	INSTALL NEW CONDUITS AS PER SECTIONS A-A & B-B INSTALL TSB BEDDING AS PER NS130, SUBMIT TSB MIX TO AUSGRID FOR REVIEW AND APPROVAL PRIOR TO START OF WORKS.
J	-	11kV	NEW HV PIT (5m x 4m) 2 x HV JOINTS (POLYMERIC TO PILC)	-	-	-	-	EXCAVATE AND CONSTRUCT NEW AUSGRID HV PIT WITHIN HOSPITAL ROAD IN ACCORDANCE WITH NS172. BREAK INTO EXISTING CONDUITS, CUT EXISTING HV PILC CABLES, COUPLE NEW CONDUITS BETWEEN PIT AND EXISTING CONDUITS. TURN EXISTING PILC CABLES INTO PIT AND JOINT TO NEW HV CABLES.
A - B	5m	11kV	1 x 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE	179122	1275(BUNDLED)	850(BUNDLED)	-	EXCACATE AND TRENCH, INSTALL CABLES DIRECTLY BURIED.
B - D	100m	11kV	1 x 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE	179122	1275(BUNDLED)	850(BUNDLED)	PENDING	EXCACATE AND TRENCH, INSTALL CABLES THROUGH CONDUITS AND DIRECTLY BURIED. REFER TO SECTIONS FOR DETAILS.
B - E	10m	11kV	1 x 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE	179122	1275(BUNDLED)	850(BUNDLED)	-	EXCACATE AND TRENCH, INSTALL CABLES DIRECTLY BURIED.
C - D	95m	11kV	1 x 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE	179122	1275(BUNDLED)	850(BUNDLED)	PENDING	EXCACATE AND TRENCH, INSTALL CABLES THROUGH CONDUITS AND DIRECTLY BURIED. REFER TO SECTIONS FOR DETAILS.
A	-	11kV	1 x 11kV TRANSITION JOINT (HV2-27)	-	-	-	-	LOCATE, IDENTIFY AND SPIKE EXISTING 11kV 300 CU3 P H L YQ CABLE(CODE:314). INSTALL TRANSITION JOINT (HV2-27) BETWEEN EXISTING 300 CU3 P H L YQ CABLE(CODE:314) AND NEW 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122) AS PER NS177.
B	-	11kV	1 x 11kV TEE JOINT (POLYMERIC MAIN TO POLYMERIC) (HV3-40)	-	-	-	-	INSTALL NEW TEE JOINT(HV3-40) BETWEEN NEW CABLES AS PER NS177. MAIN: 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122) TEE: 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122)
C	-	11kV	1 x 11kV TEE JOINT (PILC MAIN TO POLYMERIC) (HV3-42)	-	-	-	-	LOCATE, IDENTIFY AND SPIKE EXISTING 11kV 300 CU3 P H L YQ CABLE(CODE:314). INSTALL NEW TEE JOINT (HV3-42) AS PER NS177. MAIN: EXISTING 300 CU3 CABLE(CODE:314) TEE: NEW 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122)
E	-	11kV	1 x 11kV STRAIGHT THROUGH JOINT (HV2-21)	-	-	-	-	LOCATE, IDENTIFY AND SPIKE EXISTING 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ / TX CABLE (CODE:1638). INSTALL TRANSITION JOINT (HV2-21) BETWEEN EXISTING 300 CU1 TRXQ 70 CU(WS) Z YQ / TX CABLE (CODE:1638) AND NEW 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122) AS PER NS177.
D	-	11kV	2 x CABLE TERMINATION FOR XXX SWITCHGEAR	-	-	-	-	TERMINATE NEW 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ/TRIPLEX CABLE (STOCKCODE:179122) ONTO THE SUBSTATION HV SWITCHGEAR (HV X-XX) AS PER NS177.
F	-	11kV	1 x 11kV POT END (LIVE END SEAL) (HV1-36)	-	-	-	-	LOCATE, IDENTIFY AND SPIKE EXISTING 11kV 300 CU3 P H L YQ CABLE(CODE:314). ESTABLISH NEW POT END (LIVE END SEAL) (HV 1-36) AS PER NS129.
D - G	100m	LV	1 x SET OF 185 CU1 XQZ 4CABLES	5044	145	95	PENDING	EXCACATE AND TRENCH, INSTALL CABLES THROUGH CONDUITS AND DIRECTLY BURIED. REFER TO SECTIONS FOR DETAILS.
G	-	LV	1 x LV DOUBLE LINK PILLAR (LV1-60)	-	-	-	-	REPLACE EXISTING LV LINK PILLAR WITH NEW LV DOUBLE LINK PILLAR (LV 1-60) AS PER NS 127. TERMINATE NEW LV CABLE INTO PILLAR. REFER TO LV SCHEMATIC FOR DETAILS.
F	-	LV	1 x LV POT END (LIVE END SEAL) (LV1-50)	-	-	-	-	LOCATE, IDENTIFY AND SPIKE EXISTING LV 240 AL4 XQ Z / SAC (CODE:2257). ESTABLISH NEW POT END (LIVE END SEAL) (LV 1-55) AS PER NS127.
D - F	110m	-	REMOVE REDUNDANT HV CABLE, LV CABLE AND CONDUITS	-	-	-	-	REMOVE REDUNDANT HV CABLES, LV CABLES AND ALL THE CONDUITS.

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CAD DRAWING

AMENDMENTS

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12

ASSET REMOVED

Pole - to be removed

Column - to be removed

SL - to be removed

OH Mains - to be removed

UG Mains - to be removed

USL - to be removed

Pole Sub - to be removed

Joint - to be removed

PROPOSED

EXISTING

Pole

SL Standard

Pillar Standard

LV Pillar

LV Link Pillar

Streetlight

Streetlight - PEC

USL

ABS

IDT

Kiosk Sub

Chamber Sub

Pole Sub

Two Pole Sub

PROPOSED

EXISTING

UGOH

Joint

Conduit

OH Lines

Pot End

Sealed End

UG Cables

EXISTING

Pot End

Sealed End

UG Cables

HV FEEDER RELOCATION

SC14233

ASSOCIATED DRAWINGS

CERTIFICATION NUMBER

DESIGNED BY

T.SUN

AUTH NO.

3342/

SUBMIT DATE

SUBMITTED

LGA

RANDWICK

MAP REF.

UBD REF. 256 Q15

AUSGRID REF.

SY 83

PRJ/TRAJ No.

SYDNEY CHILDREN'S HOSPITAL

HV FEEDER RELOCATIONS

HOSPITAL ROAD

RANDWICK

NSW 2031

SIZE

A1

AUSGRID PROJECT No.

AN-21294

SHEETS

3 of 5

AMD.

0

16 36 27



16 36 27



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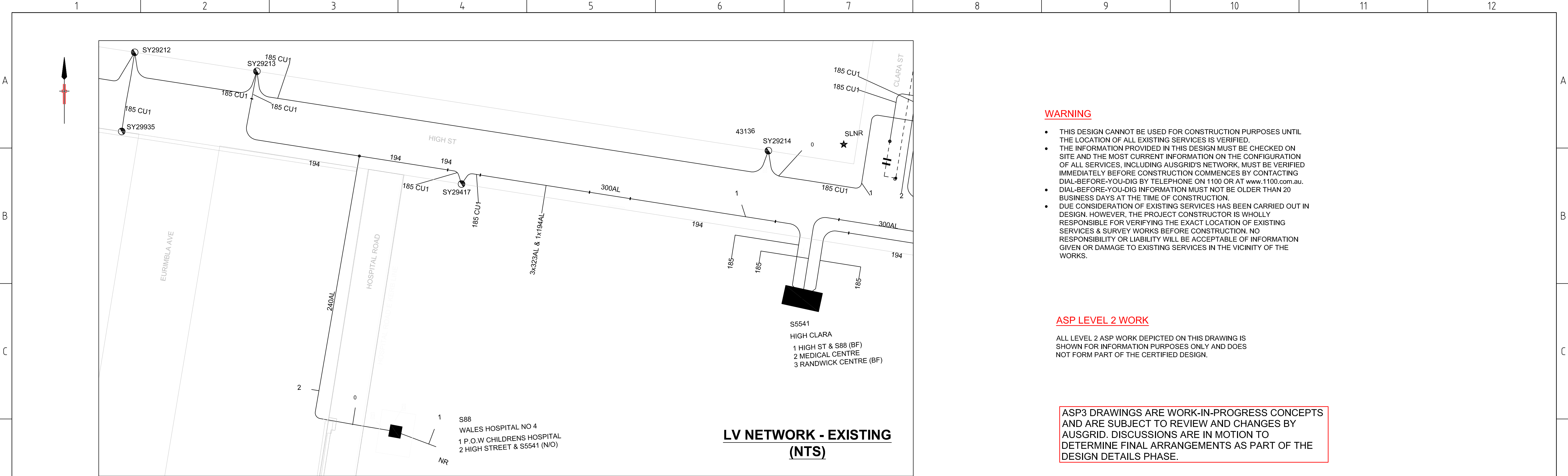
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				ASP REF.	200152		SIZE	AUSGRID PROJECT No.	SHEETS	AMD.
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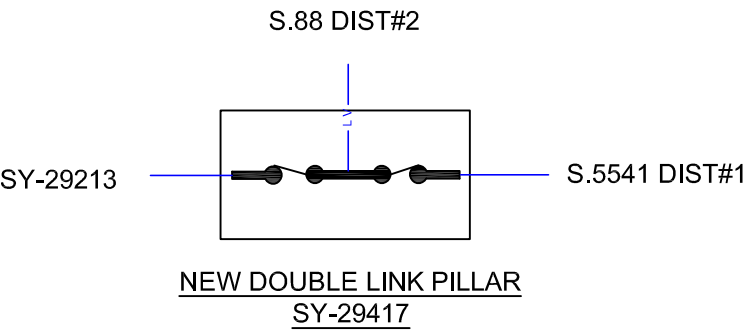
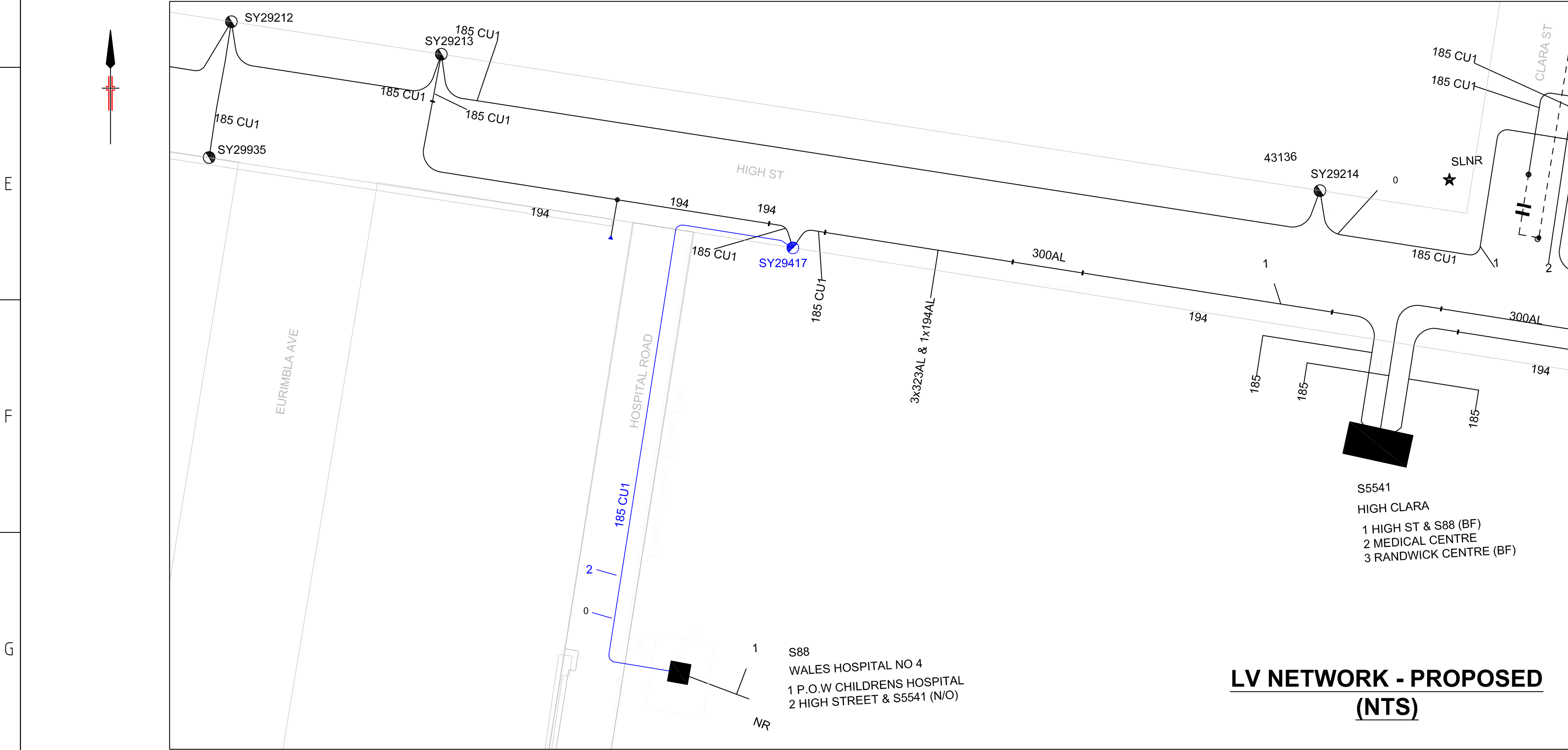
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LV GEOSCHEMATIC EXISTING					
LV UG Cable		Shackle Point		Kiosk Substation	
LV OH Cable		Fuse		Chamber Substation	
UG Cable Joint		Link		Pole Mounted Substation	
Tee		Open Point		Link Box Internals	
UGOH		UG Link Box			
Termination		LV Pillar			
Main Section		LV Link/Switch Pillar			
IDT			switch_number		
LV GEOSCHEMATIC PROPOSED					
LV UG Cable		Shackle Point		Kiosk Substation	
LV OH Cable		Fuse		Chamber Substation	
UG Cable Joint		Link		Pole Mounted Substation	
Tee		Open Point		Link Box Internals	
UGOH		UG Link Box			
Termination		LV Pillar			
Main Section		LV Link/Switch Pillar			
IDT			switch_number		

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																UBD REF. 256 Q15															
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																MAP REF.		AUSGRID REF.													
																PRJ/TRAK No.															
											ASP REF.		200152			CERTIFICATION NUMBER		# # / # #		SIZE A1		AUSGRID PROJECT No. AN-21294		SHEETS 5 of 5		AMD. 0					
											ASSOCIATED DRAWINGS																				

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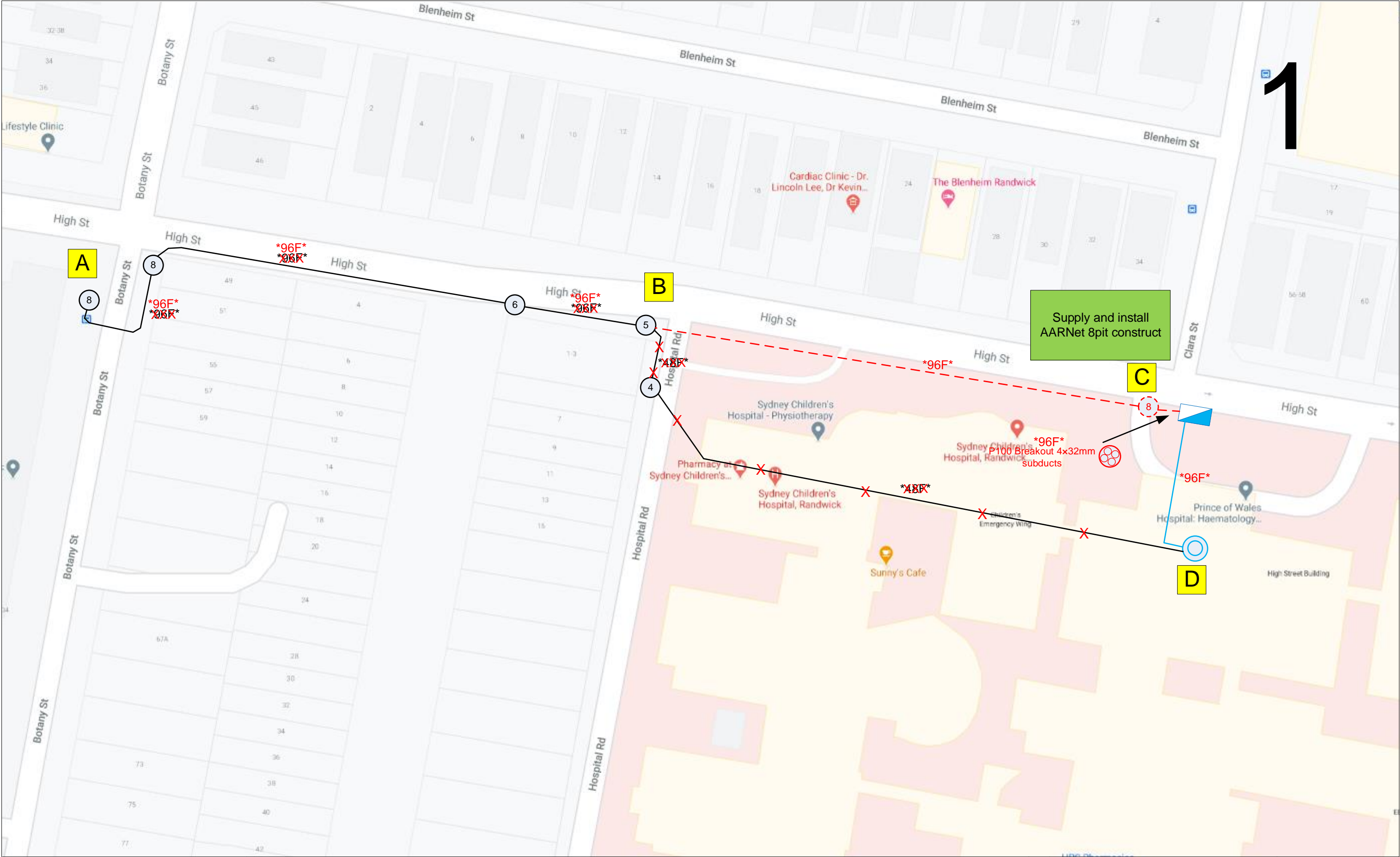
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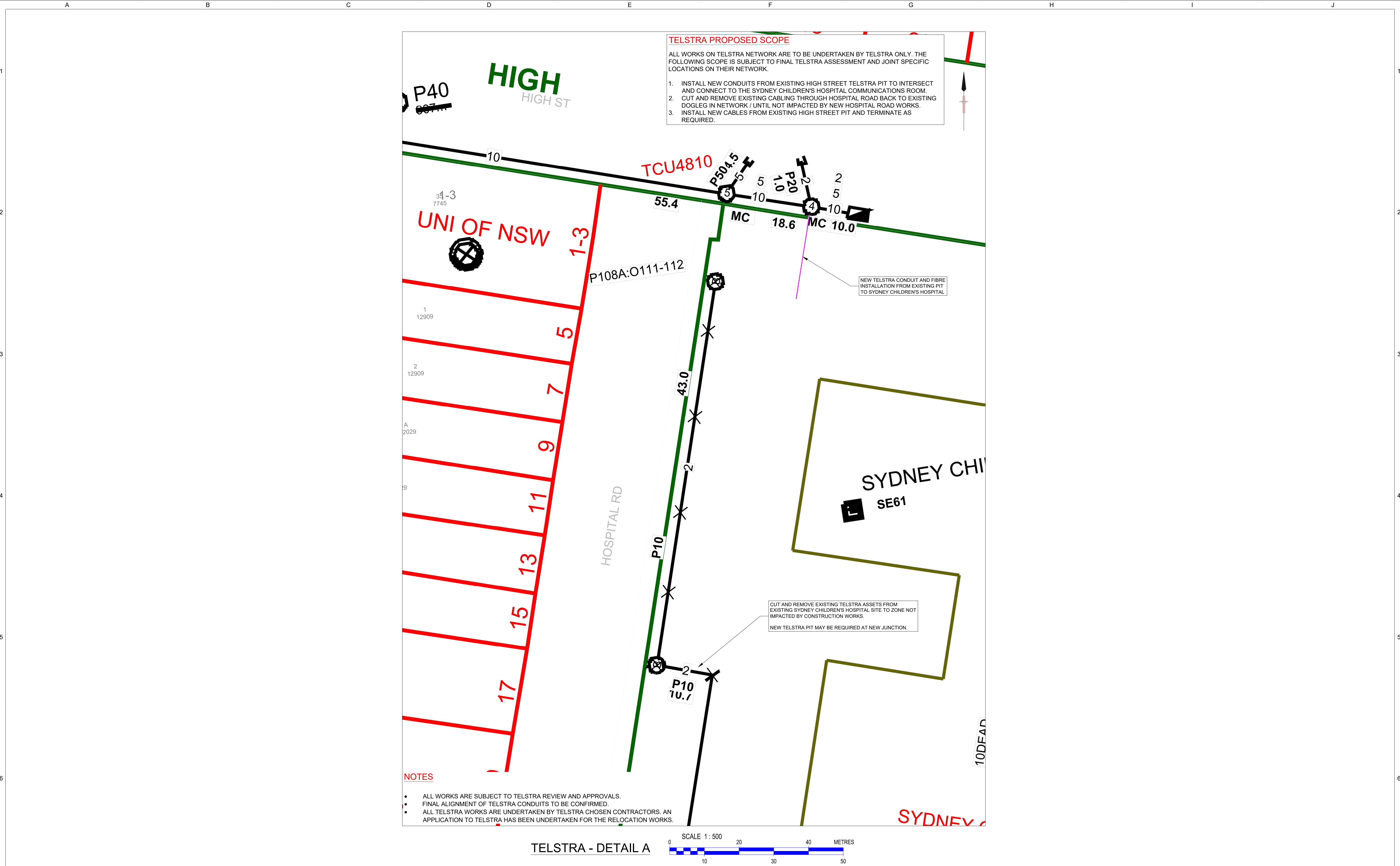
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|--|----------------------------|--|-------------------------------|
| | Third Party Manhole | | Existing AARNet Duct |
| | Third Party Pit | | Proposed New AARNet Pit |
| | Third Party Duct or Tunnel | | Proposed New AARNet Duct |
| | Existing AARNet Pit | | P100 Breakout 4x32mm subducts |

Relocation Hospital Rd,
Randwick

1.1 Template Version	Version	1.0	Sheet 1 of 1	
	Date	12/11/2020	Drawing Size	A3
	Author	Andrej Kostascki	Scale	NTS



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS				CLIENT		ARCHITECT		CONSULTANT		PROJECT		TITLE		CONCEPT ISSUE NOT FOR CONSTRUCTION					
Rev	Date	Description	Verified	Rev	Date	Description	Verified							HOSPITAL ROAD REF HOSPITAL ROAD, RANDWICK		ELECTRICAL SERVICES TELECOMMUNICATION ASSET RELOCATION AARNET & TELSTRA		DRAWN CHECKED APPROVED CREATED JOB No.		K.T. B.B. J.H. 06/20 DRAWING No.		SCALE @ A1 AS SHOWN REV	
P1	05.06.20	CONCEPT ISSUE	K.T.	<div><div></div><div>UP</div></div> <div>All dimensions to be verified on site/s prior to commencement of on-site work and/ or off-site prefabrication. Figured dimension to be taken in preference to scaled dimensions. This drawing is copyright and remains the property of JHA Consulting Engineers. Reproduction in whole or part of these drawings without written consent constitutes an infringement of copyright.</div>	P2	16.06.20	CONCEPT ISSUE	K.T.			<div><div></div><div>JHA</div></div> <div>Level 23, 101 Miller Street, North Sydney NSW 2060 Australia +61 (02) 9437 1000 general@jhaengineers.com.au www.jhaservices.com</div>												
P2	16.06.20	CONCEPT ISSUE	K.T.																				
P3	08.10.20	CONCEPT ISSUE	K.T.																				
S1	09.11.20	SCHEMATIC DESIGN	B.B.															200152		SKE003		P3	