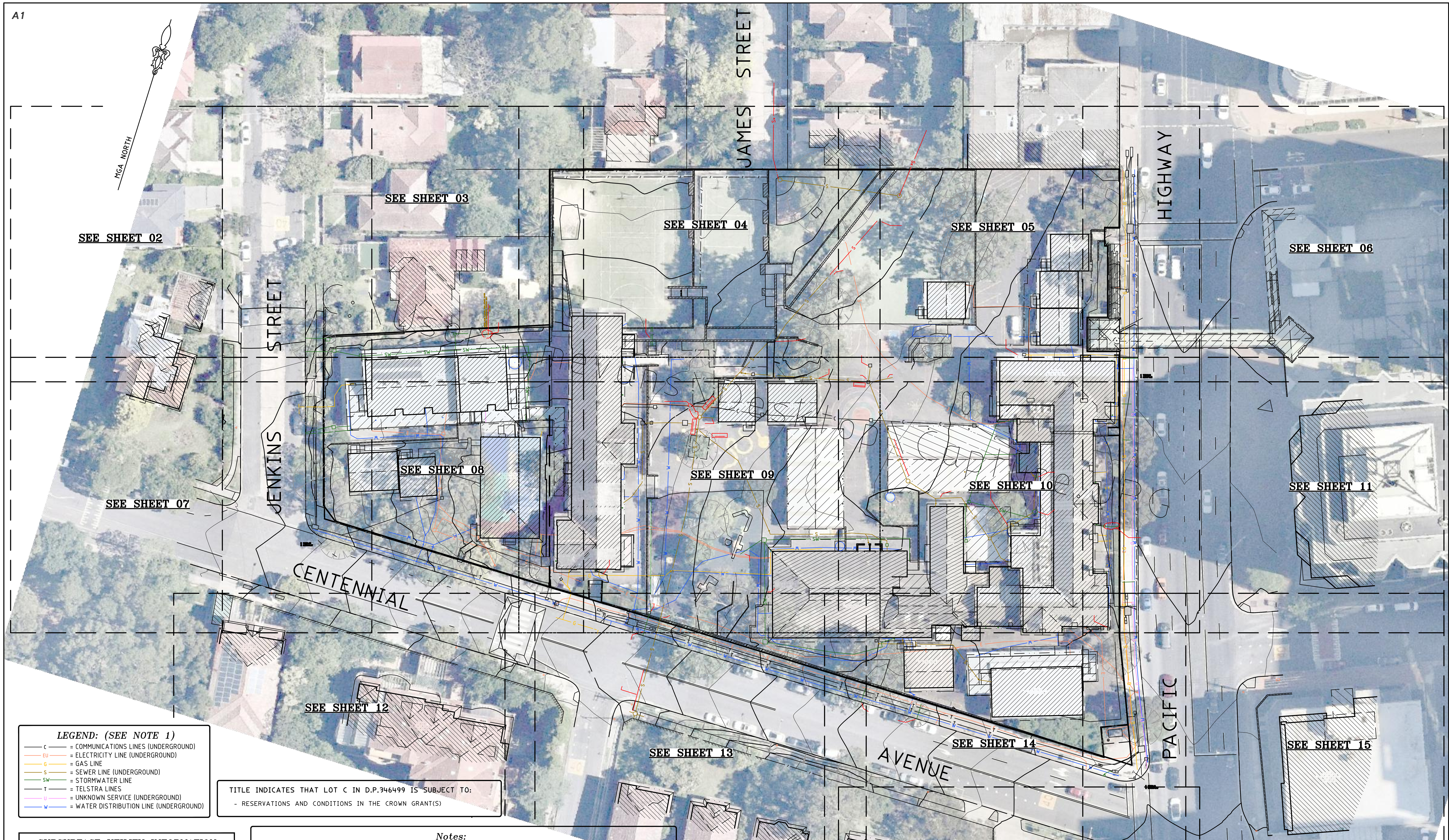
Upgrades to Chatswood Public School and Chatswood High School

Appendix 5 - Site Survey Public School

SSD 9483
Prepared by CMS Surveyors
For School Infrastructure NSW, Department of Education

Artists impression of upgrades to Chatswood Public School



LEGEND

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BIT = BITUMEN
BLD = EXTERNAL BUILDING
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CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
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EOT= END OF TRACE
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GRT = GRATE
GSL = GAS SLA
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HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
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SLA = SURFACE LEVEL ABOVE
TREE

HORIZONTAL DATUM:

CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:

DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

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5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:

SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

CMS SURVEYORS
C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/99A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY		SHEET 1 OF 16	
SURVEYED PB/BB/TC/ME	DRAWN GP	CHECKED PB/BB/TC/ME	APPROVED ML/DR
SURVEY INSTRUCTION 17485A	SCALE 1:400 @ A1	DATE OF SURVEY 10-17/01/18,14-15/02/19	
DRAWING NAME 17485detail			ISSUE 5
CAD FILE 17485Adetail 5.dwg			

LEGEND: (SEE NOTE 1)

C = COMMUNICATIONS LINES (UNDERGROUND)
EU = ELECTRICITY LINE (UNDERGROUND)
G = GAS LINE
S = SEWER LINE (UNDERGROUND)
SW = STORMWATER LINE
T = TELSTRA LINES
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TITLE INDICATES THAT LOT C IN D.P.346499 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

SUBSURFACE UTILITY INFORMATION

QL-D
IS THE LOWEST OF THE FOUR QUALITY LEVELS STIPULATED IN AS5488. IT IS AN INDICATIVE POSITION COMPILED FROM EXISTING RECORDS, CURSORY SITE INSPECTION, ANECDOTAL EVIDENCE.
QL-C
IS THE NEXT LEVEL UP FROM QL-D. AS5488 STATES THAT QL-C IS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATIONS AND ATTRIBUTES OF A SURFACE FEATURE USING A COMBINATION OF EXISTING RECORDS (ANECDOTAL EVIDENCE) SONIC BOOM TECHNIQUES AND A SITE SURVEY OF VISIBLE EVIDENCE.
QL-B
ELECTRONICALLY TRACED AS PER AS5488 (DIRECT CONNECTION, INDUCTION, FLEXITRACE/SONDE, FLEXIROD/SONDE) WITH AN ESTIMATED POSITIONAL TOLERANCE OF +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-A
IS THE HIGHEST QUALITY LEVEL AS PER AS5488 AND CONSISTS OF THE POSITIVE IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. THIS CAN BE ACHIEVED AT OPENED PITS AND IN THE POTHOLES WHERE THE UTILITY IS EXPOSED.
HORIZONTAL AND VERTICAL
TOLERANCE: -/+ 50MM.
QL-X
ELECTRONICALLY LOCATED WITH GROUND PENETRATING RADAR OR OTHER ELECTRONIC LOCATING TECHNIQUES NOT COMPLIANT WITH AS5488. ESTIMATED POSITIONAL TOLERANCE IS +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-Y
ELECTRONICALLY LOCATED BUT WITH REDUCED CONFIDENCE IN PLAN POSITION/DEPTH (MEDIUM CONFIDENCE LEVEL).
QL-Z
ELECTRONICALLY LOCATED WITH LOW CONFIDENCE LEVEL IN PLAN POSITION/DEPTH (LOW CONFIDENCE LEVEL).

Notes:

- **A BASIC BOUNDARY SURVEY HAS BEEN UNDERTAKEN SUITABLE FOR COUNCIL DA SUBMISSION (TITLE DIMENSIONS ONLY) - BOUNDARY DEFINITION IS SUBJECT TO FURTHER SURVEY.**
- **IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.**
- **THIS DETAIL SURVEY IS NOT A "SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002.**
- **AREA IS APPROXIMATE ONLY AND HAS BEEN CALCULATED BY TITLE DIMENSIONS. ALL TITLE DIMENSIONS OF THE LAND HAVE NOT BEEN CONFIRMED BY SURVEY. IF AREAS ARE CRITICAL WE RECOMMEND A BOUNDARY SURVEY FOR PUBLIC RECORD.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF TSA MANAGEMENT PTY LIMITED.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. DIAL BEFORE YOU DIG SERVICES (ph 1100) SHOULD BE USED AND A FULL UTILITY INVESTIGATION, INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- SEWER MAIN PLOTTED FROM SYDNEY WATER SEWER DIAGRAM. LOCATION SHOULD BE MARKED ON SITE IF CRITICAL.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- THIS PLAN IS ONLY TO BE USED FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
- DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.
-
-
- ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
- THIS NOTICE MUST NOT BE ERASED.

Sx = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

0 10 20 30 40

SCALE 1:400

RL.	CODE	DEPTH	LOCATION QUALITY	PIPE DIAMETER	NOTE
106.78	SSL	1.31	B	100Ø	EOT

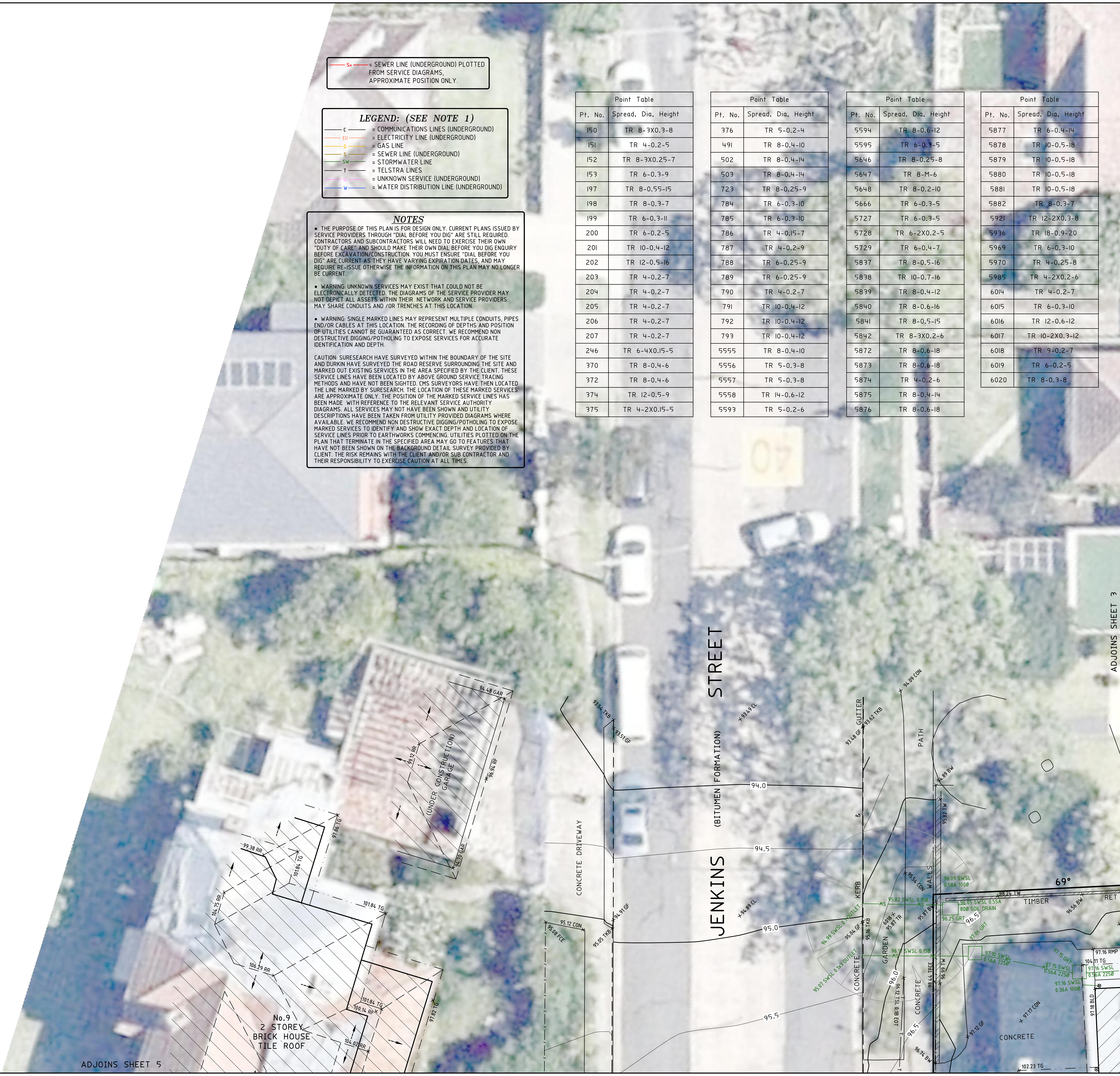
TITLE INDICATES THAT LOT 1 IN D.P.812207 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
- (A) - DP1186596 EASEMENT ~~FOR~~ ELECTRICITY AND OTHER PURPOSES 3.3 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1186596

REVISION CLOUDS & LETTERING REFERS TO SURVEYORS REPORT ON SERVICE PITS ACCOMPANIED BY THIS PAN. (B)

MGA TRUNCATION
EASTING: 331000
NORTHING: 6258000
ELEVATION: 0

A1

MGA NORTH



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NOTES

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- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.

- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

Point Table	
Pt. No.	Spread, Dia, Height
150	TR 8-3X0.3-8
151	TR 4-0.2-5
152	TR 8-3X0.25-7
153	TR 6-0.3-9
197	TR 8-0.55-15
198	TR 8-0.3-7
199	TR 6-0.3-11
200	TR 6-0.2-5
201	TR 10-0.4-12
202	TR 12-0.5-16
203	TR 4-0.2-7
204	TR 4-0.2-7
205	TR 4-0.2-7
206	TR 4-0.2-7
207	TR 4-0.2-7
246	TR 6-4X0.15-5
370	TR 8-0.4-6
372	TR 8-0.4-6
374	TR 12-0.5-9
375	TR 4-2X0.15-5

Point Table	
Pt. No.	Spread, Dia, Height
376	TR 5-0.2-4
491	TR 8-0.4-10
502	TR 8-0.4-14
503	TR 8-0.4-14
723	TR 8-0.25-9
784	TR 6-0.3-10
785	TR 6-0.3-10
786	TR 4-0.15-7
787	TR 4-0.2-9
788	TR 6-0.25-9
789	TR 6-0.25-9
790	TR 4-0.2-7
791	TR 10-0.4-12
792	TR 10-0.4-12
793	TR 10-0.4-12
5555	TR 8-0.4-10
5556	TR 5-0.3-8
5557	TR 5-0.3-8
5558	TR 14-0.6-12
5593	TR 5-0.2-6

Point Table	
Pt. No.	Spread, Dia, Height
5594	TR 8-0.6-12
5595	TR 6-0.3-5
5646	TR 8-0.25-8
5647	TR 8-M-6
5648	TR 8-0.2-10
5666	TR 6-0.3-5
5727	TR 6-0.3-5
5728	TR 6-2X0.2-5
5729	TR 6-0.4-7
5837	TR 8-0.5-16
5838	TR 10-0.7-16
5839	TR 8-0.4-12
5840	TR 8-0.6-16
5841	TR 8-0.5-15
5842	TR 8-3X0.2-6
5872	TR 8-0.6-18
5873	TR 8-0.6-18
5874	TR 4-0.2-6
5875	TR 8-0.4-14
5876	TR 8-0.6-18

Point Table	
Pt. No.	Spread, Dia, Height
5877	TR 6-0.4-14
5878	TR 10-0.5-18
5879	TR 10-0.5-18
5880	TR 10-0.5-18
5881	TR 10-0.5-18
5882	TR 8-0.3-7
5921	TR 12-2X0.3-8
5936	TR 18-0.9-20
5969	TR 6-0.3-10
5970	TR 4-0.25-8
5985	TR 4-2X0.2-6
6014	TR 4-0.2-7
6015	TR 6-0.3-10
6016	TR 12-0.6-12
6017	TR 10-2X0.3-12
6018	TR 9-0.2-7
6019	TR 6-0.2-5
6020	TR 8-0.3-8

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

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DRAWING NAME			ISSUE
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CAD FILE			
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5595	TR 6-0.3-5
5646	TR 8-0.25-8
5647	TR 8-M-6
5648	TR 8-0.2-10
5666	TR 6-0.3-5
5727	TR 6-0.3-5
5728	TR 6-2X0.2-5
5729	TR 6-0.4-7
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5838	TR 10-0.7-16
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- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.

- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

LEGEND

AT = ASTRO TURF
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WT = WATER TANK
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BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
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TAP = TAP
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WSL = WATER SLA
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HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

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5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

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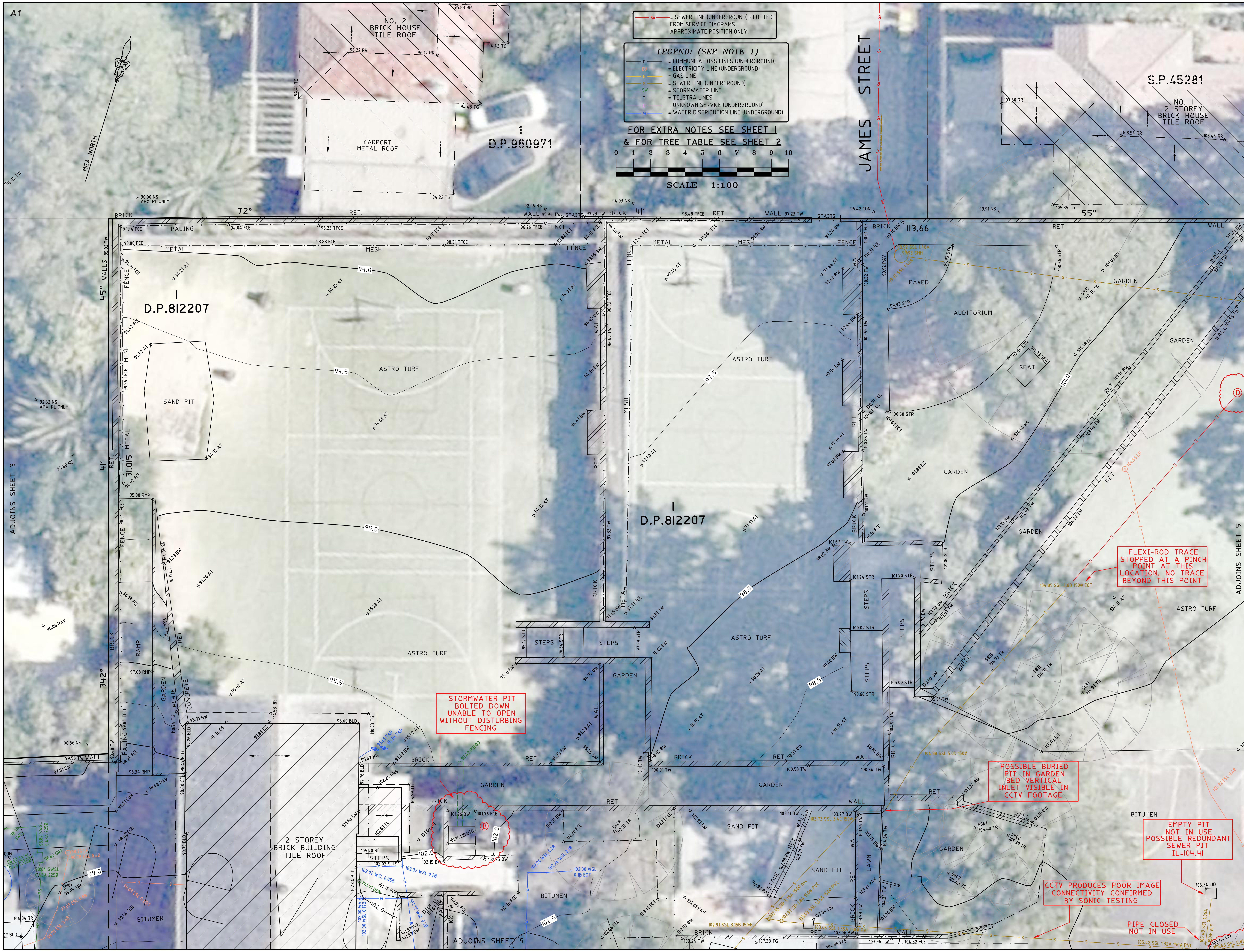
LGA: WILLOUGHY			SHEET 3 OF 16
SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR
SURVEY INSTRUCTION	SCALE	DATE OF SURVEY	
17485A	1:100 @ A1	10-17/01/18,14-15/02/19	
DRAWING NAME			ISSUE
17485detail			5
CAD FILE			
17485Adetail 5.dwg			



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SURVEYED PB/BB/TC/ME	DRAWN GP	CHECKED PB/BB/TC/ME	APPROVED ML/DR
SURVEY INSTRUCTION 17485A	SCALE 1:100 @ A1	DATE OF SURVEY 10-17/01/18,14-15/02/19	
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CAD FILE 17485Adetail 5.dwg			

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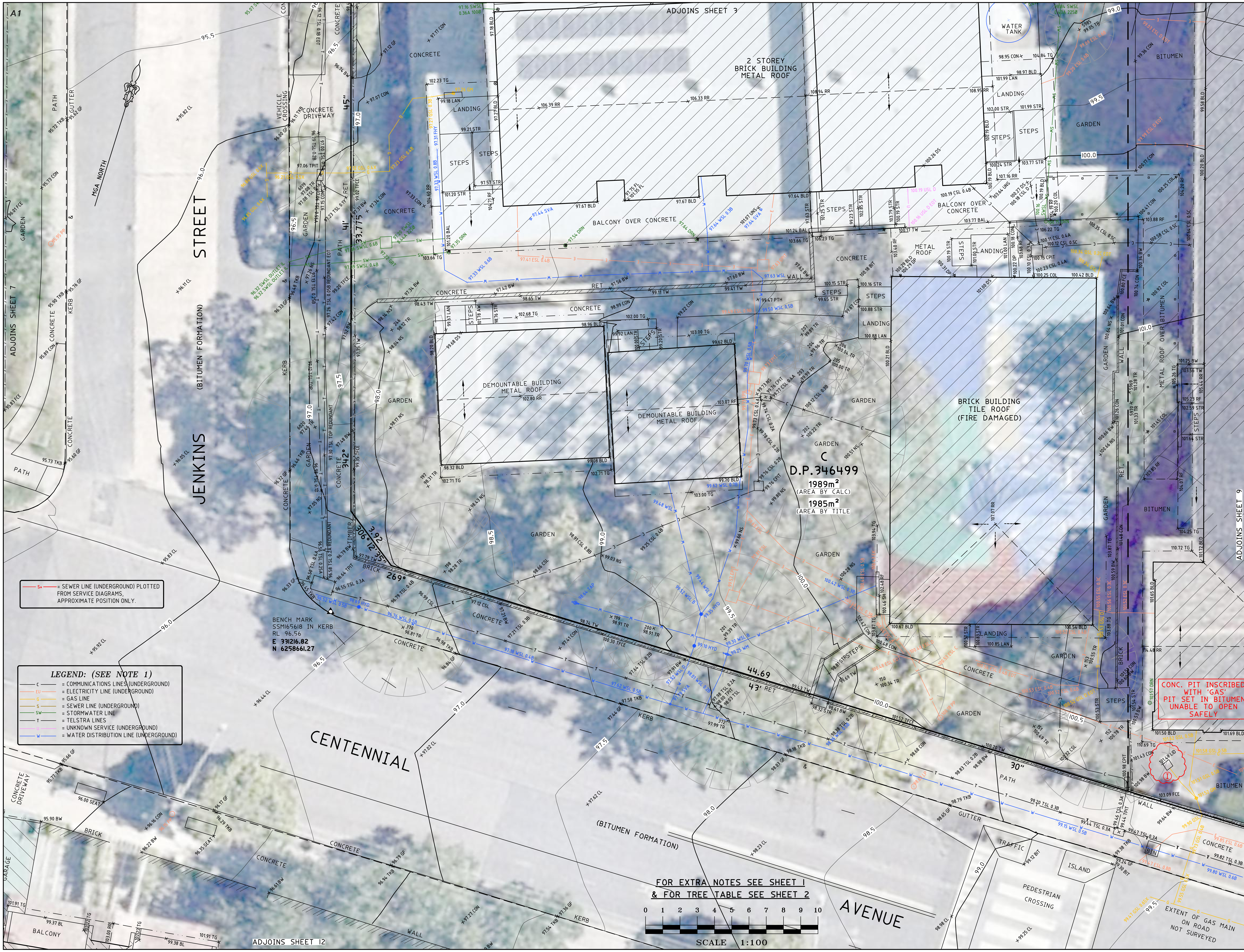

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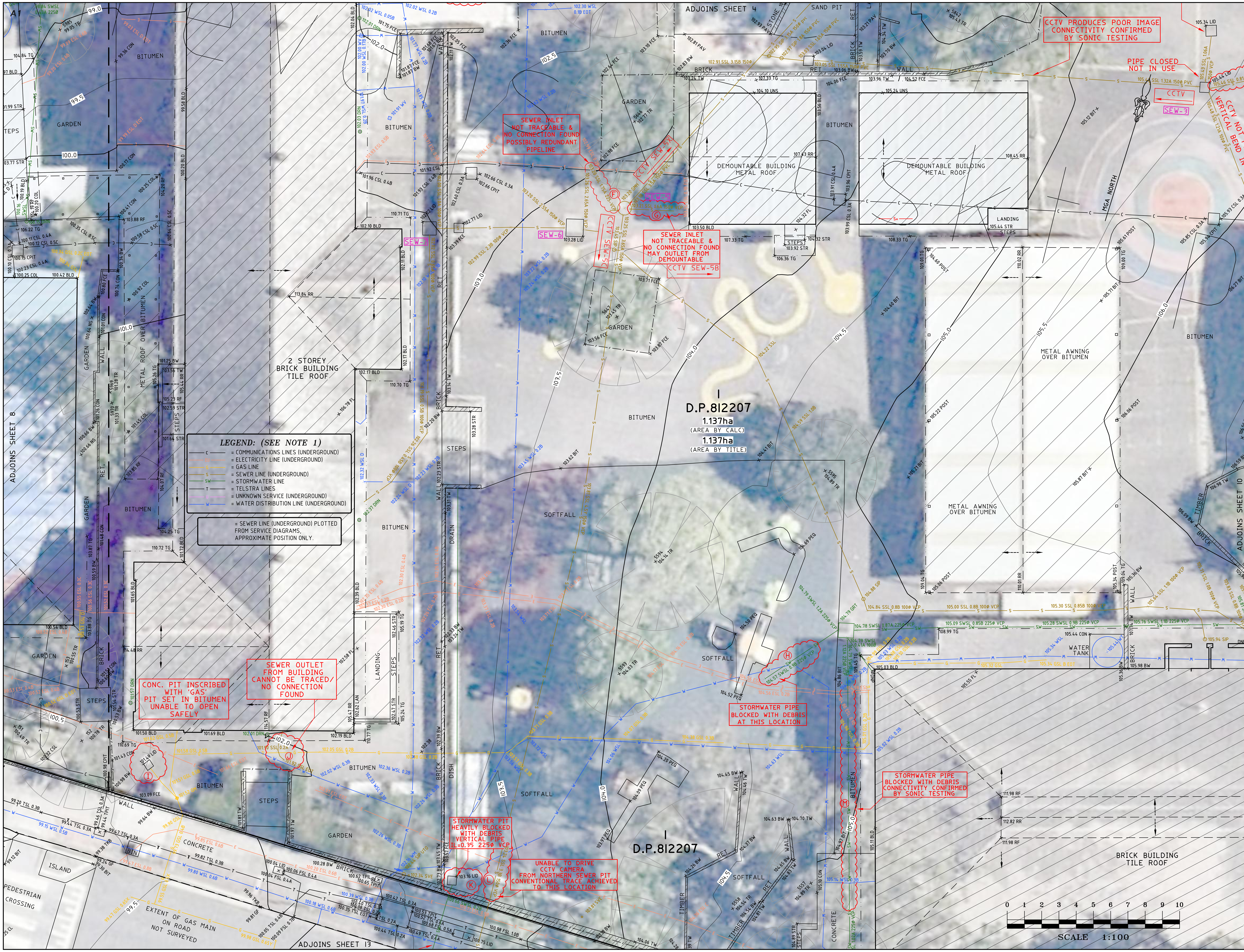

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DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
SMH = SEWER MAN HOLE
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SSL = SEWER SLA
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SLA
TAP = TAP
TFCE = TOP OF FENCE
TG = TOP OF GUTTER
TKB = TOP OF KERB
TLI = TRAFFIC LIGHT
TPIT = TELSTRA PIT
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TSL = TELSTRA SLA
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
UTO = UNABLE TO OPEN
WM = WATER METER
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TREE

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
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3	ADD TRUNCATION INFORMATION	04/02/19
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1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/99A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME	ISSUE
17485detail	5
CAD FILE 17485Adetail 5.dwg	

LEGEND

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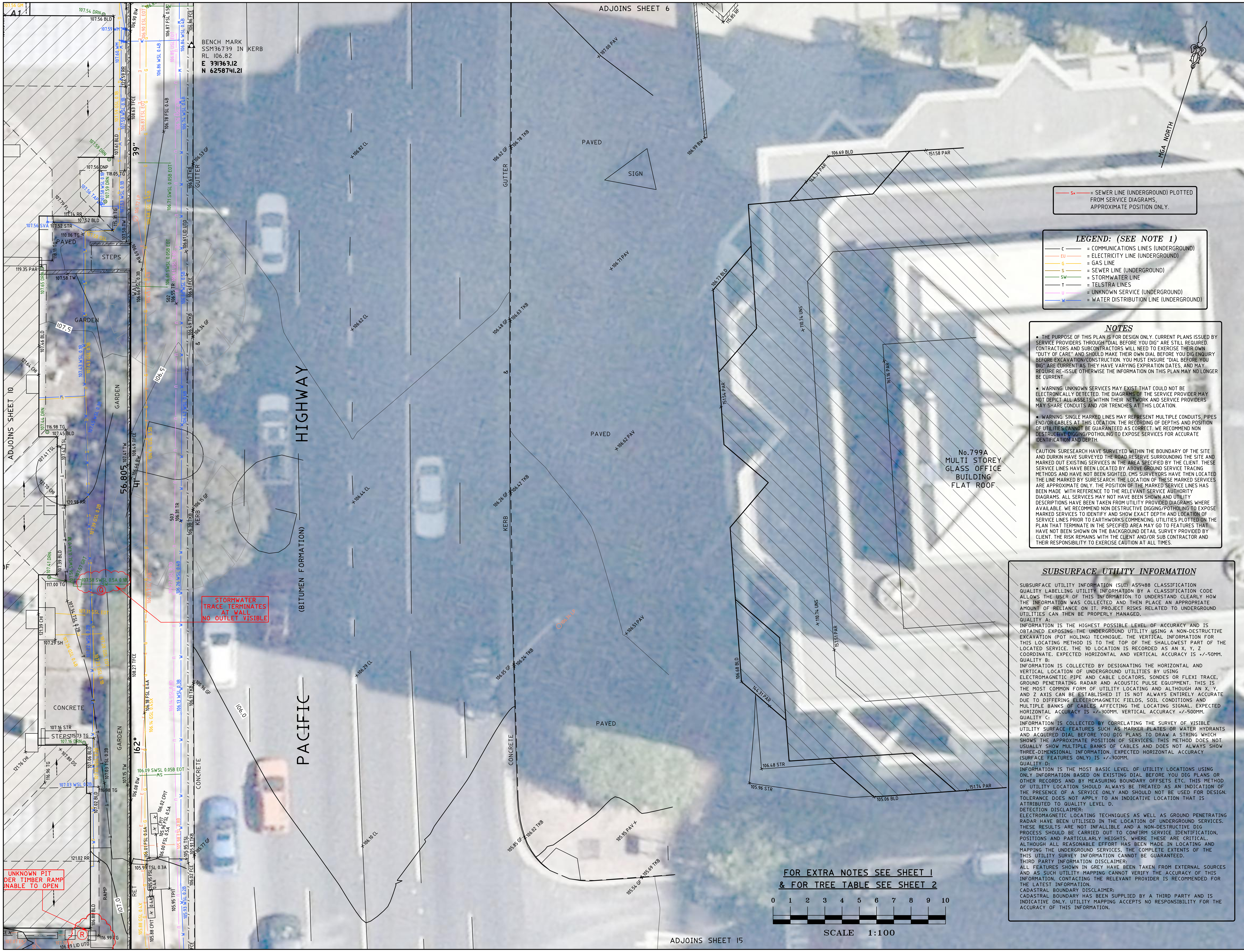
LGA: WILLOUGHY		SHEET 10 OF 16	
SURVEYED PB/BB/TC/ME	DRAWN GP	CHECKED PB/BB/TC/ME	APPROVED ML/DR
SURVEY INSTRUCTION 17485A	SCALE 1:100 @ A1	DATE OF SURVEY 10-17/01/18,14-15/02/19	
DRAWING NAME 17485detail			ISSUE 5
CAD FILE 17485Adetail 5.dwg			



— Sx — = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
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NOTES

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- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

SUBSURFACE UTILITY INFORMATION

SUBSURFACE UTILITY INFORMATION (SUI) AS5488 CLASSIFICATION QUALITY LABELLING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.

QUALITY A:
INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X, Y, Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50MM.

QUALITY B:
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300MM. VERTICAL ACCURACY +/-500MM.

QUALITY C:
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE-DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300MM.

QUALITY D:
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.

DETECTION DISCLAIMER:
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON-DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.

THIRD PARTY INFORMATION DISCLAIMER:
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.

CADASTRAL BOUNDARY DISCLAIMER:
CADASTRAL BOUNDARY HAS BEEN SUPPLIED BY A THIRD PARTY AND IS INDICATIVE ONLY. UTILITY MAPPING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
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TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
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CLIENT:
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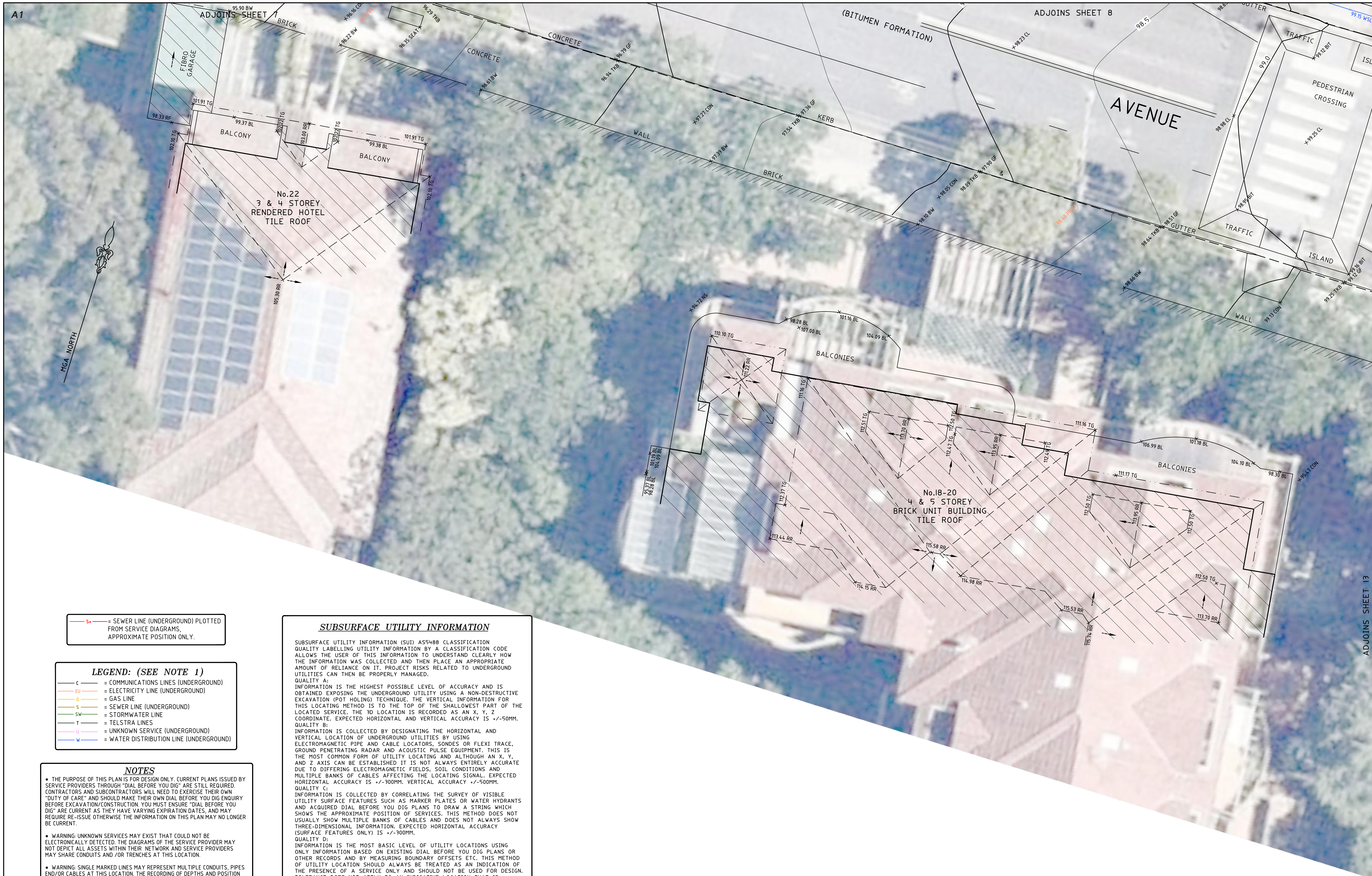
LGA: WILLOUGHBY

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME: **17485detail**
ISSUE: 5
CAD FILE: 17485Adetail 5.dwg



SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

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HORIZONTAL DATUM:

CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:

DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
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3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:

SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN

SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

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2/99A South Creek Road,
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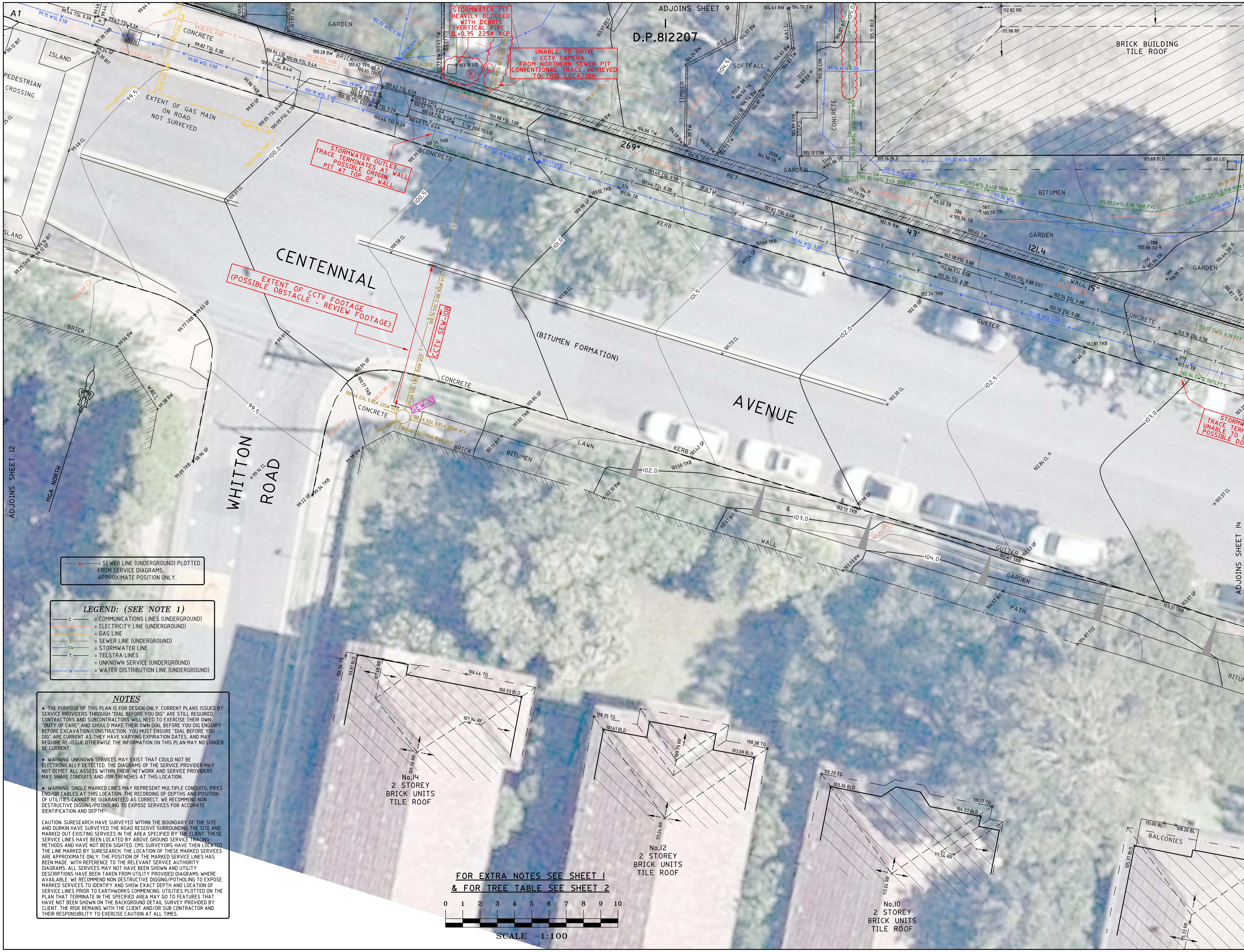
LGA: WILLOUGHY			SHEET 12 OF 16
SURVEYED PB/BB/TC/ME	DRAWN GP	CHECKED PB/BB/TC/ME	APPROVED ML/DR
SURVEY INSTRUCTION 17485A	SCALE 1:100 @ A1	DATE OF SURVEY 10-17/01/18,14-15/02/19	
DRAWING NAME 17485detail			ISSUE 5
CAD FILE 17485Adetail 5.dwg			



= SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- E = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
- SW = STORMWATER LINE
- T = TELSTRA LINES
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NOTES

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CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100

LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
SMH = SEWER MAN HOLE
SH = SPOT HEIGHT
SSL = SEWER SLA
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SLA
TAP = TAP
TFCE = TOP OF FENCE
TG = TOP OF GUTTER
TKB = TOP OF KERB
TLI = TRAFFIC LIGHT
TPIT = TELSTRA PIT
TR = TREE
TSL = TELSTRA SLA
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
UTO = UNABLE TO OPEN
WM = WATER METER
WSL = WATER SLA
WT = WATER TANK
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CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:

DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

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E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHBY		SHEET 13 OF 16	
SURVEYED PB/BB/TC/ME	DRAWN GP	CHECKED PB/BB/TC/ME	APPROVED ML/DR
SURVEY INSTRUCTION 17485A	SCALE 1:100 @ A1	DATE OF SURVEY 10-17/01/18,14-15/02/19	
DRAWING NAME 17485detail		ISSUE 5	
CAD FILE 17485Adetail_5.dwg			

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17485A	1:100 @ A1	10-17/01/18,14-15/02/19	
DRAWING NAME	17485detail	ISSUE	5
CAD FILE	17485Adetail 5.dwg		

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SUBSURFACE UTILITY INFORMATION

SUBSURFACE UTILITY INFORMATION (SUI) AS5488 CLASSIFICATION QUALITY LABELLING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.

QUALITY A:
INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X, Y, Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50MM.

QUALITY B:
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300MM. VERTICAL ACCURACY +/-500MM.

QUALITY C:
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE-DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300MM.

QUALITY D:
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.

DETECTION DISCLAIMER:
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON-DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.

THIRD PARTY INFORMATION DISCLAIMER:
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.

CADASTRAL BOUNDARY DISCLAIMER:
CADASTRAL BOUNDARY HAS BEEN SUPPLIED BY A THIRD PARTY AND IS INDICATIVE ONLY. UTILITY MAPPING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

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LGA: WILLOUGHY

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SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
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DRAWING NAME	ISSUE
17485detail	5
CAD FILE: 17485Adetail 5.dwg	

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INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X, Y, Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50MM.

QUALITY B:
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300MM. VERTICAL ACCURACY +/-500MM.

QUALITY C:
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE-DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300MM.

QUALITY D:
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.

DETECTION DISCLAIMER:
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON-DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.

THIRD PARTY INFORMATION DISCLAIMER:
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.

CADASTRAL BOUNDARY DISCLAIMER:
CADASTRAL BOUNDARY HAS BEEN SUPPLIED BY A THIRD PARTY AND IS INDICATIVE ONLY. UTILITY MAPPING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
SMH = SEWER MAN HOLE
SH = SPOT HEIGHT
SSL = SEWER SLA
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SLA
TAP = TAP
TFCE = TOP OF FENCE
TG = TOP OF GUTTER
TKB = TOP OF KERB
TLI = TRAFFIC LIGHT
TPIT = TELSTRA PIT
TR = TREE
TSL = TELSTRA SLA
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
UTO = UNABLE TO OPEN
WM = WATER METER
WSL = WATER SLA
WT = WATER TANK
WV = WATER VALVE
SLA = SURFACE LEVEL ABOVE
TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:

SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

CMS SURVEYORS
C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/99A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY			SHEET 16 OF 16
SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME	ISSUE
17485detail	5
CAD FILE 17485Adetail 5.dwg	

DIAL BEFORE YOU DIG www.1100.com.au

Job No 15511972

Phone: 1100
www.1100.com.au

Caller Details

Contact:	Mrs Durkin Construction Office	**Caller Id:**	1738685	**Phone:**	0297120308
Company:	Durkin Construction	**Mobile:**	Not Supplied	**Fax:**	0297120308
Address:	39 Waterview St Five Dock NSW 2046	**Email:**	durkindbyd@gmail.com		

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.

User Reference: Not Supplied
Working on Behalf of: Private

Enquiry Date: 02/01/2019
Start Date: 31/01/2019
End Date: 31/01/2019

Address:
5 Centennial Ave
Chatswood NSW 2067

Job Purpose: Excavation
Onsite Activity: Mechanical Excavation

Location of Workplace: Both
Location in Road: CarriageWay,Footpath,Nature Strip

- Check the location of the dig site is correct. If not submit a new enquiry.
- If the scope of works change, or plan validity dates expire, resubmit your enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:
Can I have a plans in pdf or in dwf if possible

Your Responsibilities and Duty of Care

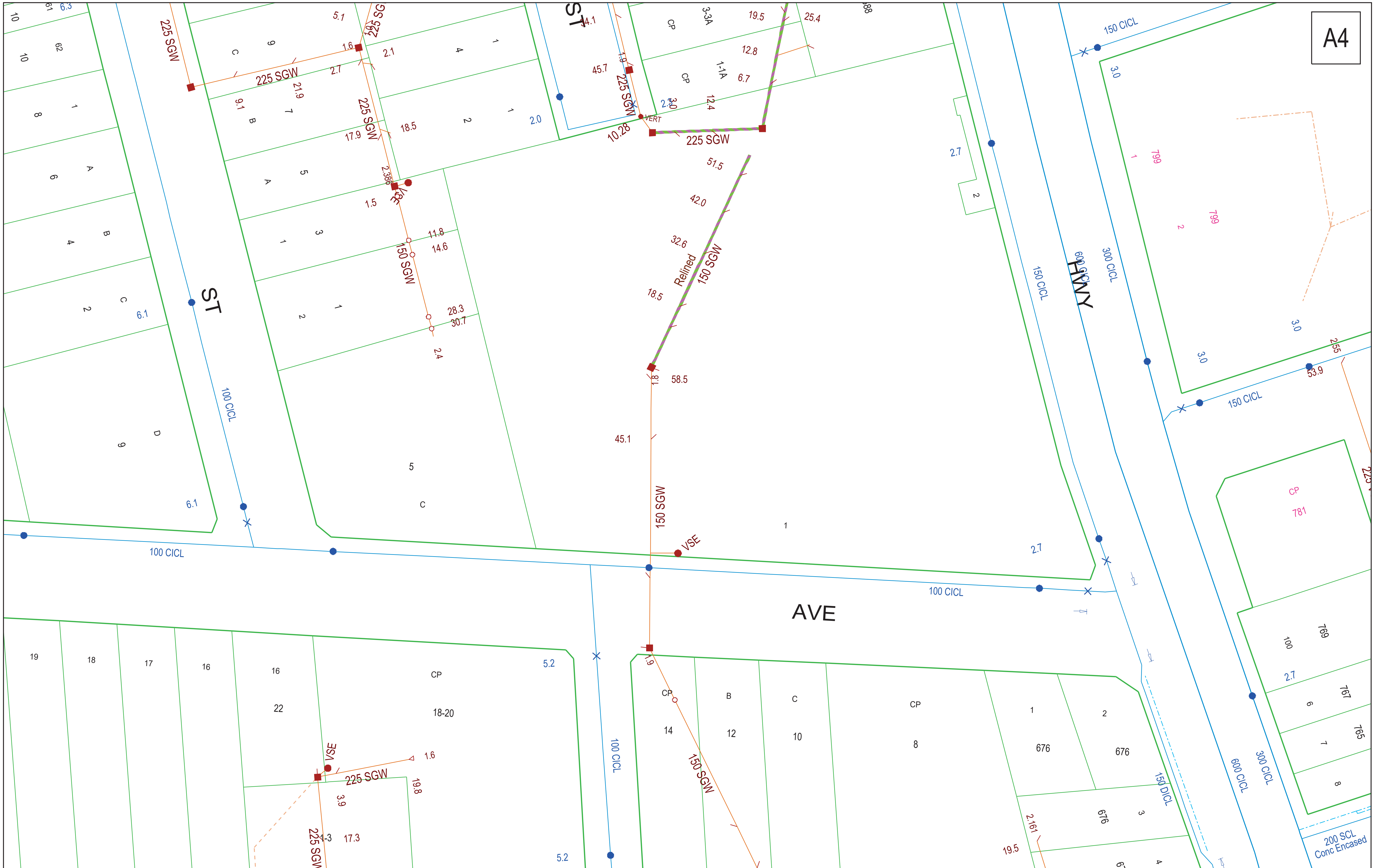
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at **www.1100.com.au**
- **For more information on safe excavation practices, visit www.1100.com.au**

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.
** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.
# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
78815767	AARNet Pty Ltd, Nsw	1300275662	NOTIFIED
78815762	Ausgrid	0249510899	NOTIFIED
78815765	Jemena Gas North	1300880906	NOTIFIED
78815768	NBN Co, NswAct	1800626762	NOTIFIED
78815760	Nextgen, NCC - NSW	1800032532	NOTIFIED
78815764	Optus and/or Uecomm, Nsw	1800505777	NOTIFIED
78815761	PIPE Networks, Nsw	1800201100	NOTIFIED
78815758	Roads and Maritime Services Not received	0288370285	NOTIFIED
78815770	Sydney Metro	0410509577	NOTIFIED
78815766	Sydney Water	132092	NOTIFIED
78815763	Telstra NSW, Central	1800653935	NOTIFIED
78815759	Verizon Business (Nsw)	0294345000	NOTIFIED
78815769	Vocus Communications	0892446114	NOTIFIED
78815757	Willoughby City Council	0297771000	NOTIFIED

No Tram Track



DBYD Address:
5 Centennial Ave
Chatswood NSW
2067

DBYD Job No: 15511972

DBYD Sequence No: 78815766

No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

Scale: 1:1000

Date of Production: 02/01/2019

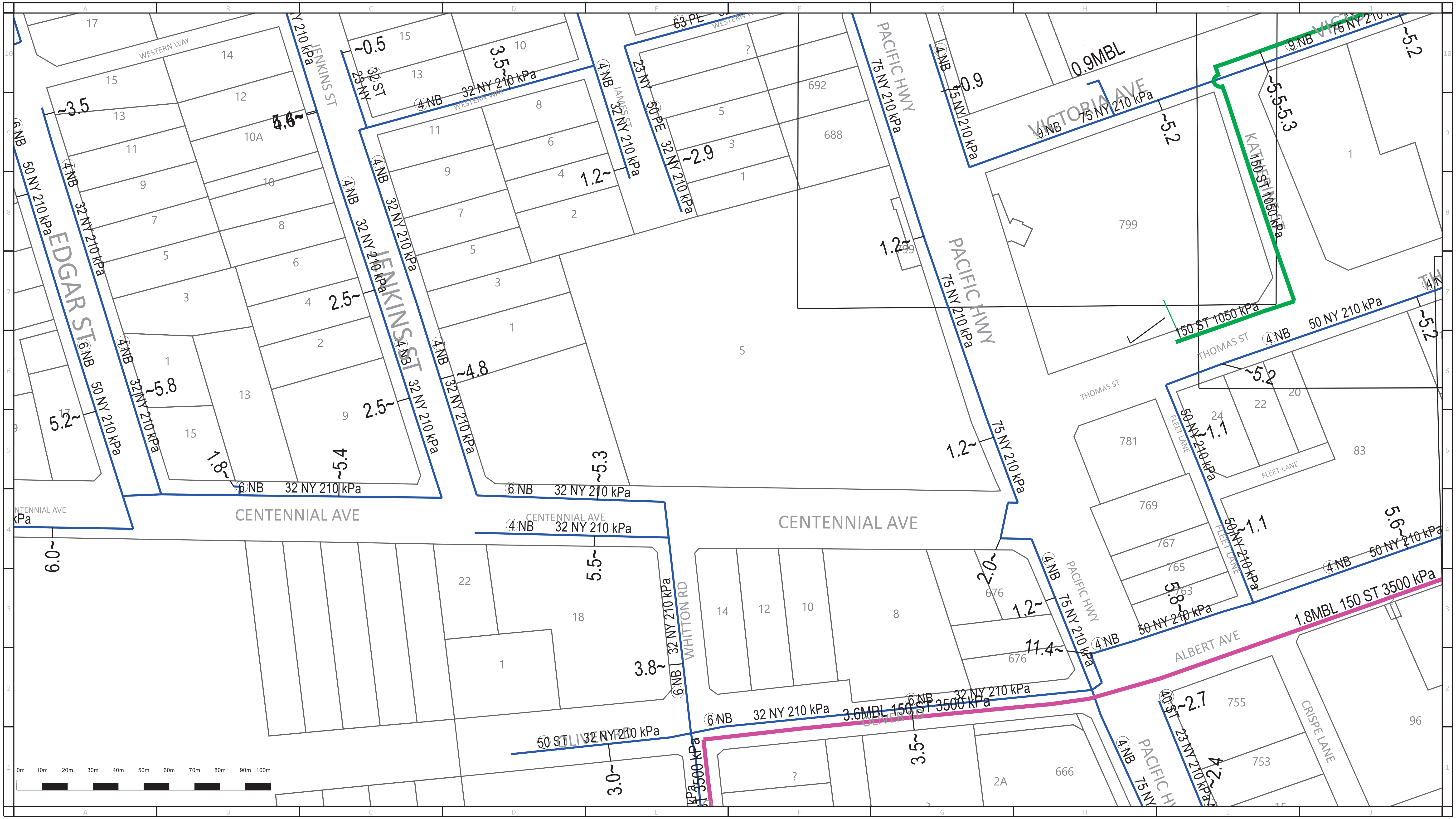
Plan 1 of 1

N

0m 5m 10m 15m 20m

DBYD Authority: Jemena Gas Networks (NSW) **DBYD Location:** 5 Centennial Ave Chatswood NSW, 2067

DIAL BEFORE YOU DIG www.1100.com.au



Jemena

ABN 87 003 004 322

Main	In Service	Proposed
Unknown Pressure		
Distribution - 2 kPa		
Distribution - 7 kPa		
Distribution - 30 kPa		
Distribution - 100 kPa		

Main	In Service	Proposed
Distribution - 210 kPa		
Distribution - 300 kPa		
Distribution - 400 kPa		

High Pressure Main & Pipeline	In Service	Proposed
Secondary - 1050 kPa		
Secondary Service		
Primary - 3500 kPa		
JGN Trunk - 7000 kPa		
Transmission		

Fittings, Valves & Regulators

- Siphon
- Valve
- Distance in metres of Main from Boundary Line ~ 1.5
- MBK = Metres Back of Kerb
- MFL = Metres from Fence Line
- Regulator Set
- Regulator Station
- Automatic Line Break Valve

N E S W

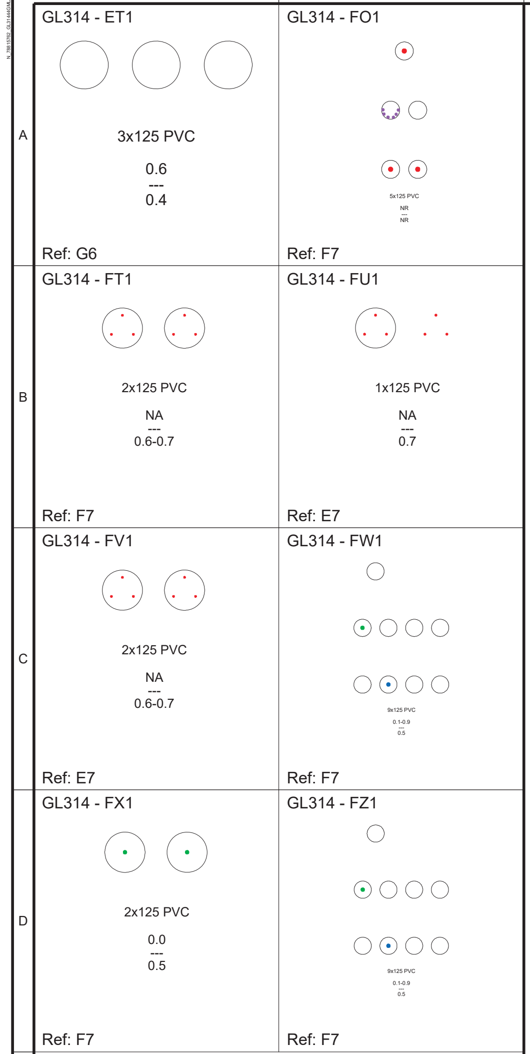
Scale: 1:2000

Issue Date: 02/01/2019

DBYD Seq No: 78815765

DBYD Job No: 15511972

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



JOINT DETAIL REPORT

No.	Bk-Pg	Pl/Cvr	Joint Location
Map: GL314			
93	1960-14	99.99/99.99	INSIDE PIT 5
94	2126-69	99.99/99.99	INSIDE PIT 5
167		99.99/99.99	INSIDE PIT 5
168		99.99/99.99	IN PIT 5.
169		99.99/99.99	INSIDE PIT 5
272	SN142-027		In pit
273	SN142-027		Pit GL10021
419	LN14-0210	/0.70	6.6 S OF SE CNR OF VICTORIA AVE & PACIFIC HWY 4.5 W OF BL

WARNING

Ausgrid's plans show the position of assets at the time of installation and may not account for subsequent changes to road alignments, fences or buildings. The plans show no more than the presence or absence of Ausgrid assets in the street.
Persons working near electricity networks must exercise care and will be held responsible for any damage caused.
You must excavate by hand or use vacuum excavation to establish the location of Ausgrid underground cables and associated assets.
Underground: Working near a cable may result in electric shock even if no contact is made. Any work in the vicinity of any cable should only be performed using safe work methods developed in accordance with the recommendations included in WorkCover Code of Practice for Excavation and WorkCover Guide for Work Near Underground Assets
as well as recommendations of Ausgrid's Network Standard NS156.
Overhead: Do not excavate near poles or towers until the stability of the foundation has been assessed by Ausgrid. Cables or earth conductors may be present close to substations, poles or towers.
Workers must maintain safe approach distances and follow applicable WorkCover Codes of Practice.
NOTE: 1. You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret the plans. 2. This information includes data from the NSW Digital Cadastral Database by Land and Property Information (c) 2016, used under Creative Commons licence version 4.0.

ISG GRID

GL31443	GL31444	GL32333
GL33221	GL33222	GL34111
GL33223	GL33224	GL34113

GRID

23C9	23D9	23E9
23C10	23D10	23E10
23C11	23D11	23E11

GL31444GMLA0

Distribution - 78815762

INFORMATION ON THIS PLAN ONLY VALID FOR 30 DAYS FROM ISSUE DATE

2 Jan 2019

Page 1 of 1

N

1:251

0 — 15 metres

Ausgrid

GL332 - AB1

5x125 CF
NA

0.6

Ref: D10

GL332 - EE1

1x150 PVC
NA

0.6

Ref: D10

GL332 - EF1

4x125 PVC
NA

0.6

Ref: D10

GL332 - EH1

2x150 PVC
1x50 PVC
0.7

0.5-0.6

Ref: D9

GL332 - EJ1

6 x 125 PVC
0.9 - 1.2

0.6

Ref: C10

JOINT DETAIL REPORT

No.	Bk-Pg	Pl/Cvr	Joint Location
Map: GL332			
1	SN90-03	1.00/0.60	4M WEST OF PL
2	SN90-03	1.70/0.60	4M WEST OF PL
206			

WARNING

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as well as recommendations of Ausgrid's Network Standard NS156.
Overhead: Do not excavate near poles or towers until the stability of the foundation has been assessed by Ausgrid. Cables or earth conductors may be present close to substations, poles or towers.
Workers must maintain safe approach distances and follow applicable WorkCover Codes of Practice.
NOTE: 1. You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret the plans. 2. This information includes data from the NSW Digital Cadastral Database by Land and Property Information (c) 2016, used under Creative Commons licence version 4.0.

ISG GRID

GL31443	GL31444	GL32333
GL33221	GL33222	GL34111
GL33223	GL33224	GL34113

GRID

23B10	23C10	23D10
23B11	23C11	23D11
23B12	23C12	23D12

GL33221GMLA0

Distribution - 78815762

INFORMATION ON THIS PLAN ONLY VALID FOR 30 DAYS FROM ISSUE DATE

2 Jan 2019

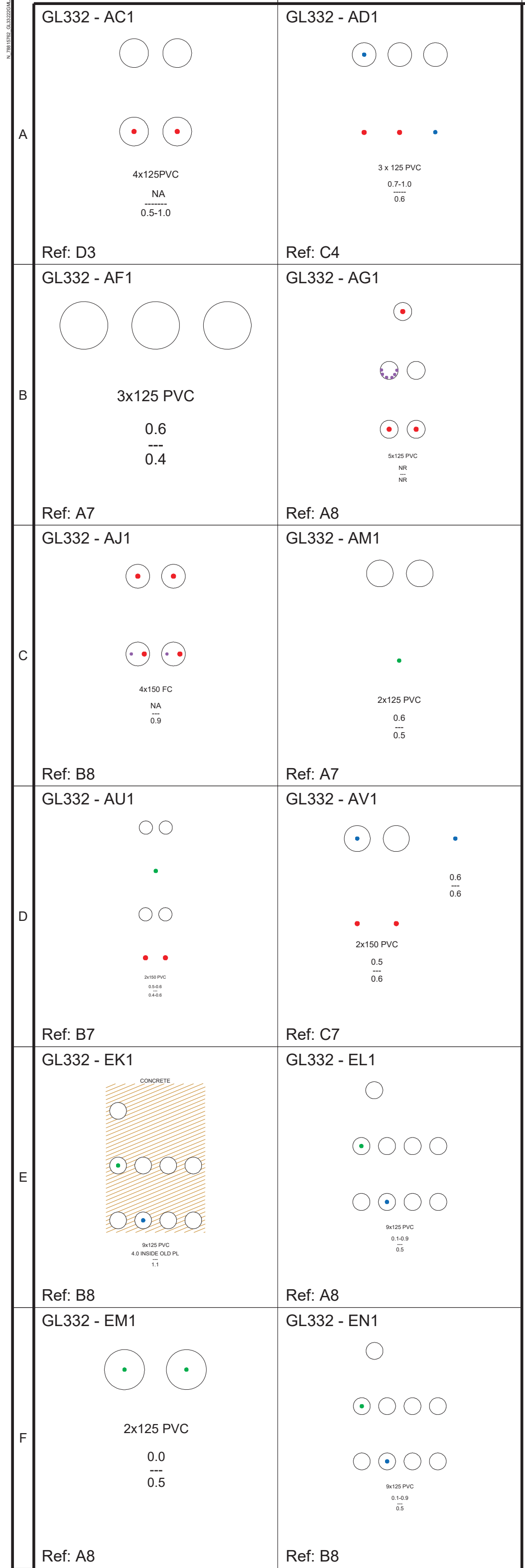
Page 1 of 1

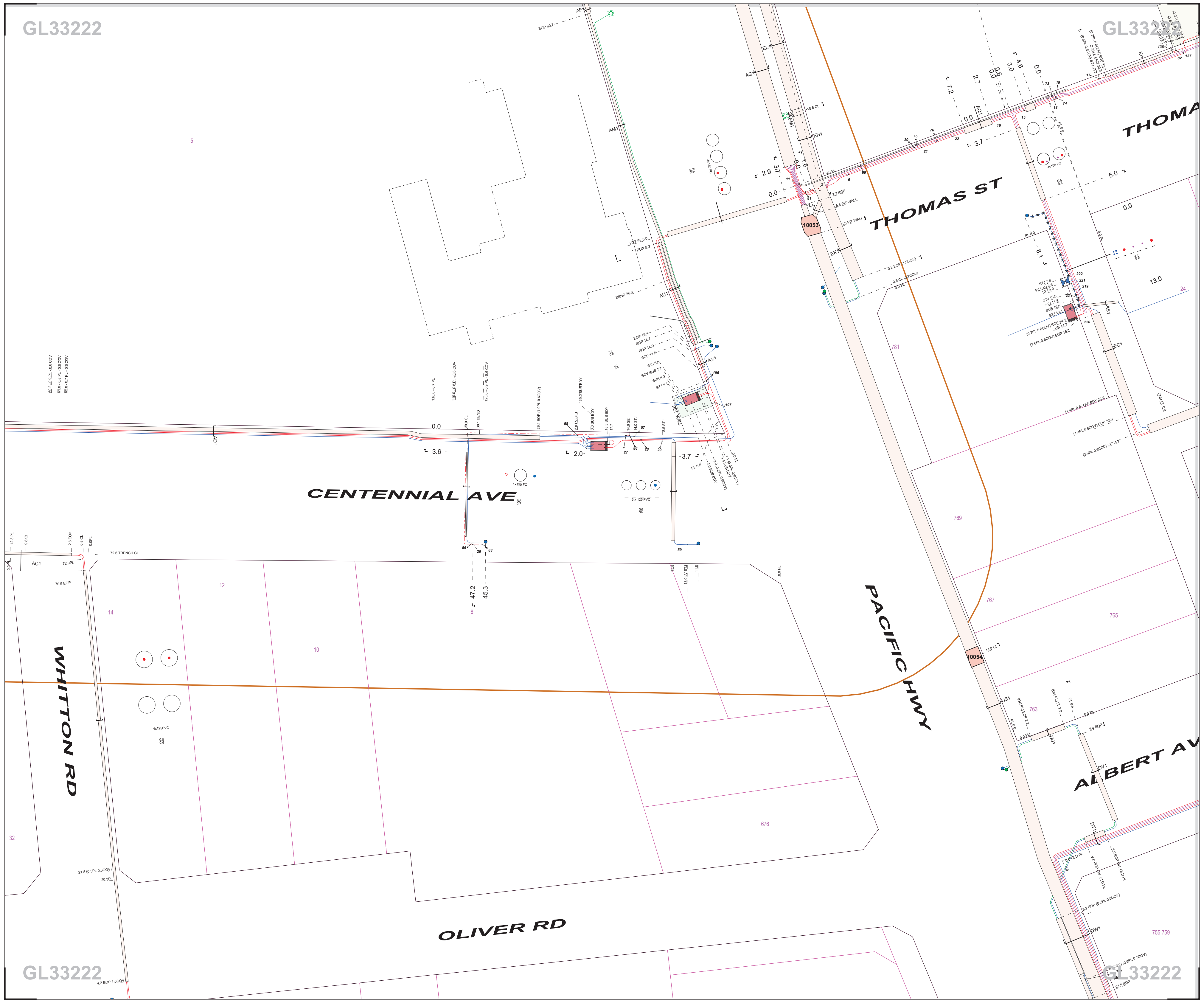
1:251

0 — 15 metres

N

Ausgrid





JOINT DETAIL REPORT

Map: GL332

No.	Bk-Pg	Pl/Cvr	Joint Location
3	2151-32	0.71/0.71	3.0 E OF PACIFIC HWY OLD PL
4	2151-65	1.19/0.71	3.0 E OF PACIFIC HWY OLD PL
5	2048-67	0.53/0.84	0.9 E OF PACIFIC HWY OLD PL
6	2048-67	0.53/0.53	6.8 E OF PACIFIC HWY OLD PL
7	SN76-02		Pit GL10053
8	SN76-02		Pit GL10053
9	SN76-02		Pit GL10053
10	SN76-02		Pit GL10053
11	2048-67	1.83/0.61	0.8 N OF THOMAS ST NPL
26	316-49	2.90/	
27	316-51	0.84/0.61	15.2 W OF PACIFIC HWY WPL
28			
29	SN70-53	0.50/0.51	8.5 M W PACIFIC HWY PL
56	316-49	2.90/	
57	SN70-51		14.15m west of PACIFIC HWY WPL
58	SN70-51	/0.55	2 M W SUB BDY
59	SN72-38	3.00/0.60	13m W OF PACIFIC HWY WPL & 3m of CENTENNIAL AVE PL
69	2125-4	0.41/0.41	10.7 W OF PACIFIC HWY OLD PL
70	220-NR		Pit GL10053
71	584-73		Pit GL10053
72	584-73		Pit GL10053
81	CH29-37	0.51/	4.0 W OF PACIFIC HWY NEW PL
83	1040-79	3.10/0.20	
86		0.30/0.46	
126			Pit GL10053
196	LN11-1084	0.60/0.60	8.8 NW OF CENTENNIAL AVE N PL
197	LN11-1084	0.60/0.60	5.1 NW OF CENTENNIAL AVE N PL

WARNING

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Workers must maintain safe approach distances and follow applicable WorkCover Codes of Practice.
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ISG GRID

GL31443	GL31444	GL32333
GL33221	GL33222	GL34111
GL33223	GL33224	GL34113

GRID

23C10	23D10	23E10
23C11	23D11	23E11
23C12	23D12	23E12

GL33222GMLA0

Distribution - 78815762

INFORMATION ON THIS PLAN ONLY VALID FOR 30 DAYS FROM ISSUE DATE

2 Jan 2019

Page 1 of 1

N

1:251

0 15 metres

Ausgrid

A0 MOCS_std_plot

Cable Plan

For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 02/01/2019 13:01:37

Sequence Number: 78815763

CAUTION: Critical Network Route in plot area. DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on : 1800 653 935

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

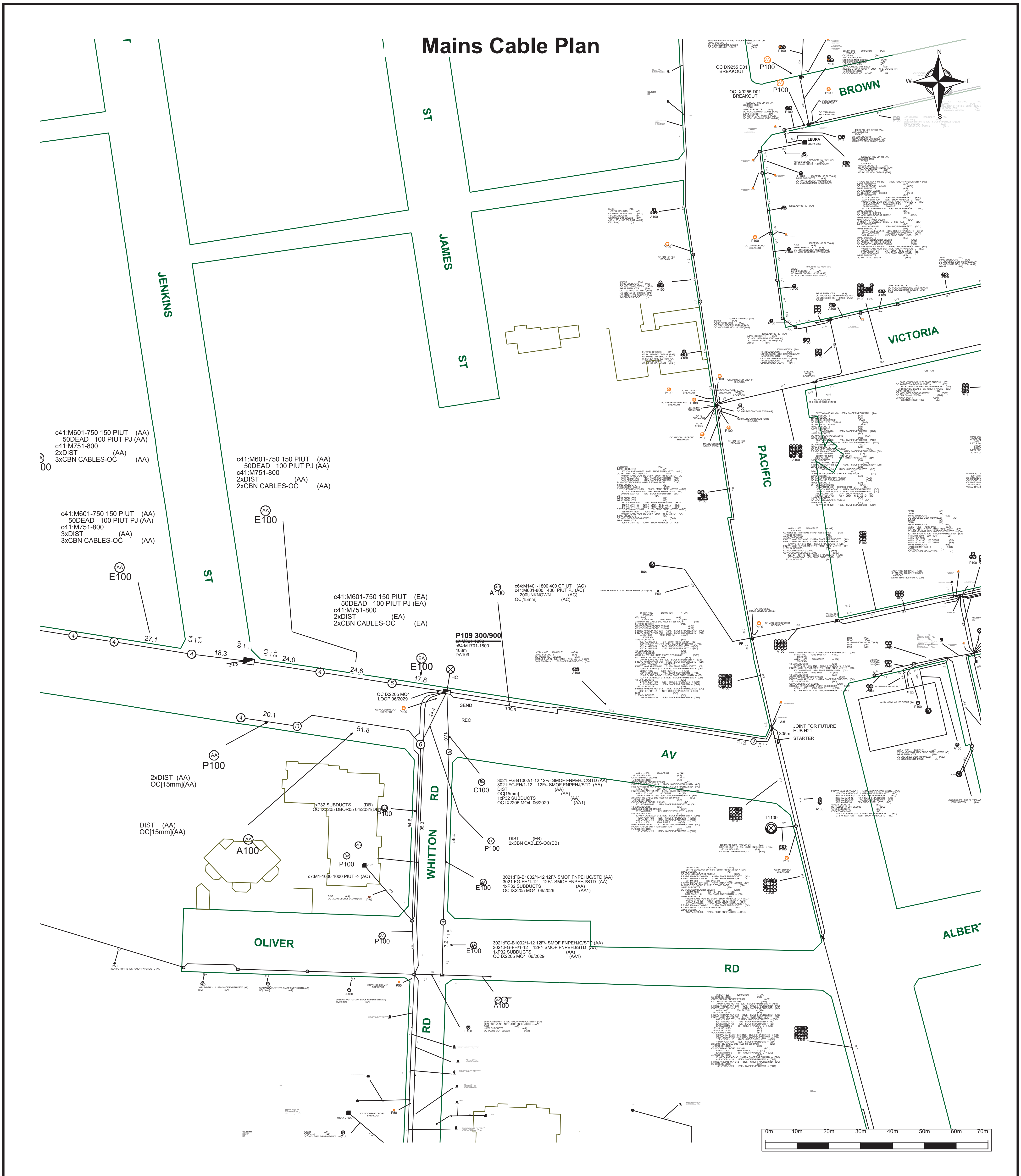
WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Mains Cable Plan



Telstra	For all Telstra DBYD plan enquiries - email - Telstra.Plans@team.telstra.com For urgent onsite contact only - ph 1800 653 935 (bus hrs)	Sequence Number: 78815763
TELSTRA CORPORATION LIMITED A.C.N. 051 775 556		CAUTION: Critical Network Route in plot area. DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on : 1800 653 935
Generated On 02/01/2019 13:01:42		

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

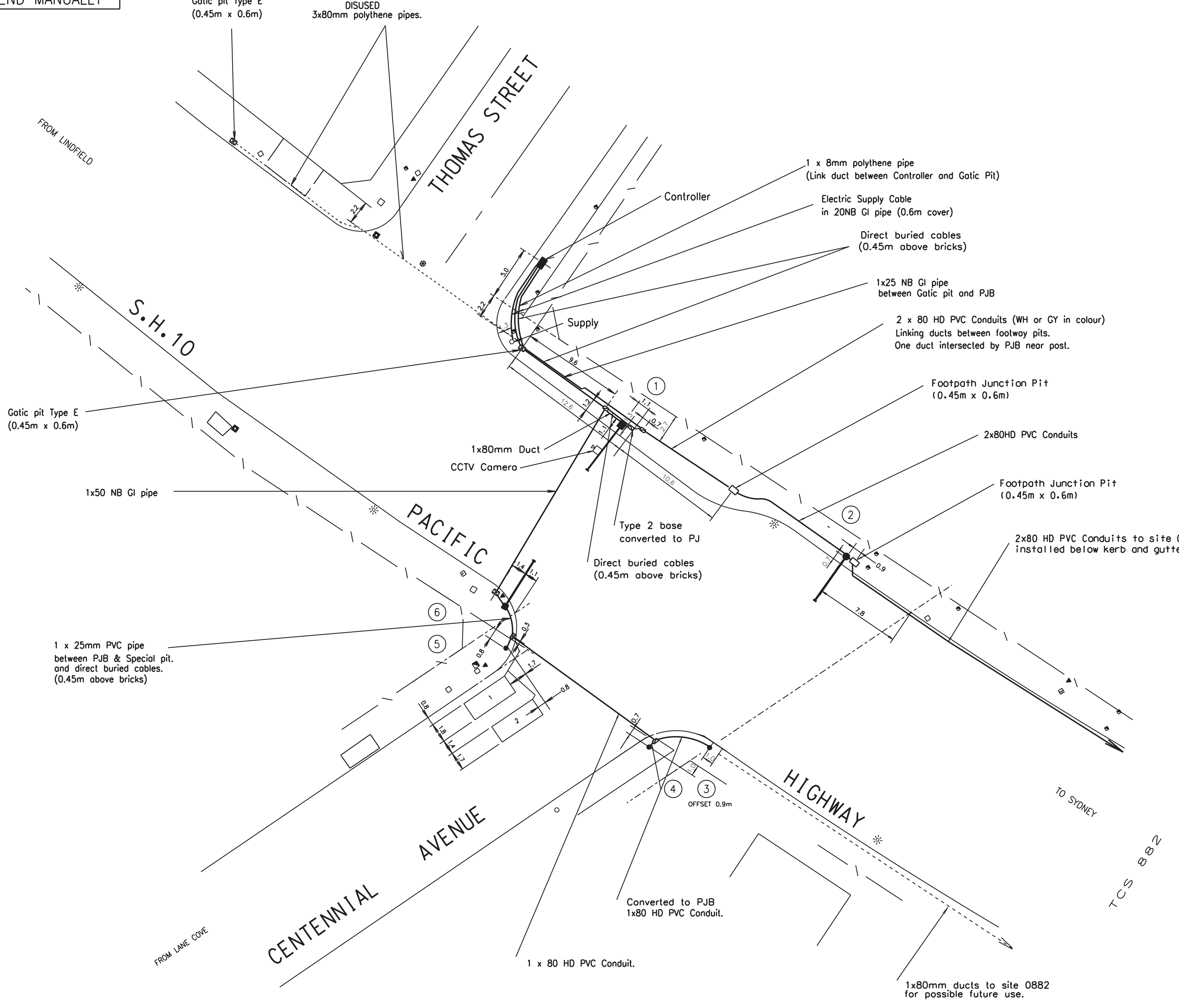
It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

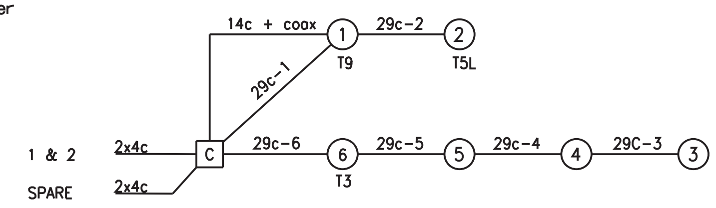
Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

VV0892

DRAWN USING CAD
DO NOT AMEND MANUALLY





CABLE LAYOUT

NOTES

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.

CABLE INSTALLATION

DRAWING FILE : VV0892_11D_INS.DGN.
ARCHIVE LOCATION :

A ORIGINAL ISSUE
B ISSUE JI YEN 97/037 17/10/97 PLAN AMENDED TO SUIT WAE R.W.A. C.L.Z
C ISSUE JI SS/339 27/04/2004 POST 1 TYPE 9 WAS TYPE 2 A.C. 16/03/05
D ISSUE JI SS/541 17/01/2011 CCTV CAMERA ADDED. MC IH

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
DESIGN LAYOUT	SHEET 9
CABLE CHART	SHEET 12

U.B.D.REF. MAP195 H11
I.S.G. E 316433
CO-ORDS N 1258679

R.W.A.22/11/95
DESIGNED
PASSED
RECOMMENDED

APPROVED
R.C. BIRD
ELECTRICAL DESIGN MANAGER
DATE 22/11/95
ACCEPTED
DATE

ROADS AND TRAFFIC AUTHORITY OF NSW
CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY
AND
CENTENNIAL AVENUE
CHATSWOOD

DESIGN OFFICE PARRAMATTA:-SYDNEY TECHNICAL SERVICES
SCALE 5 0 5 10
FILE 490 TS 292
SUPERSEDES SHEET 11A
REGN. 0010.490.VV.0892

SHEET 11
ISSUE A B C D

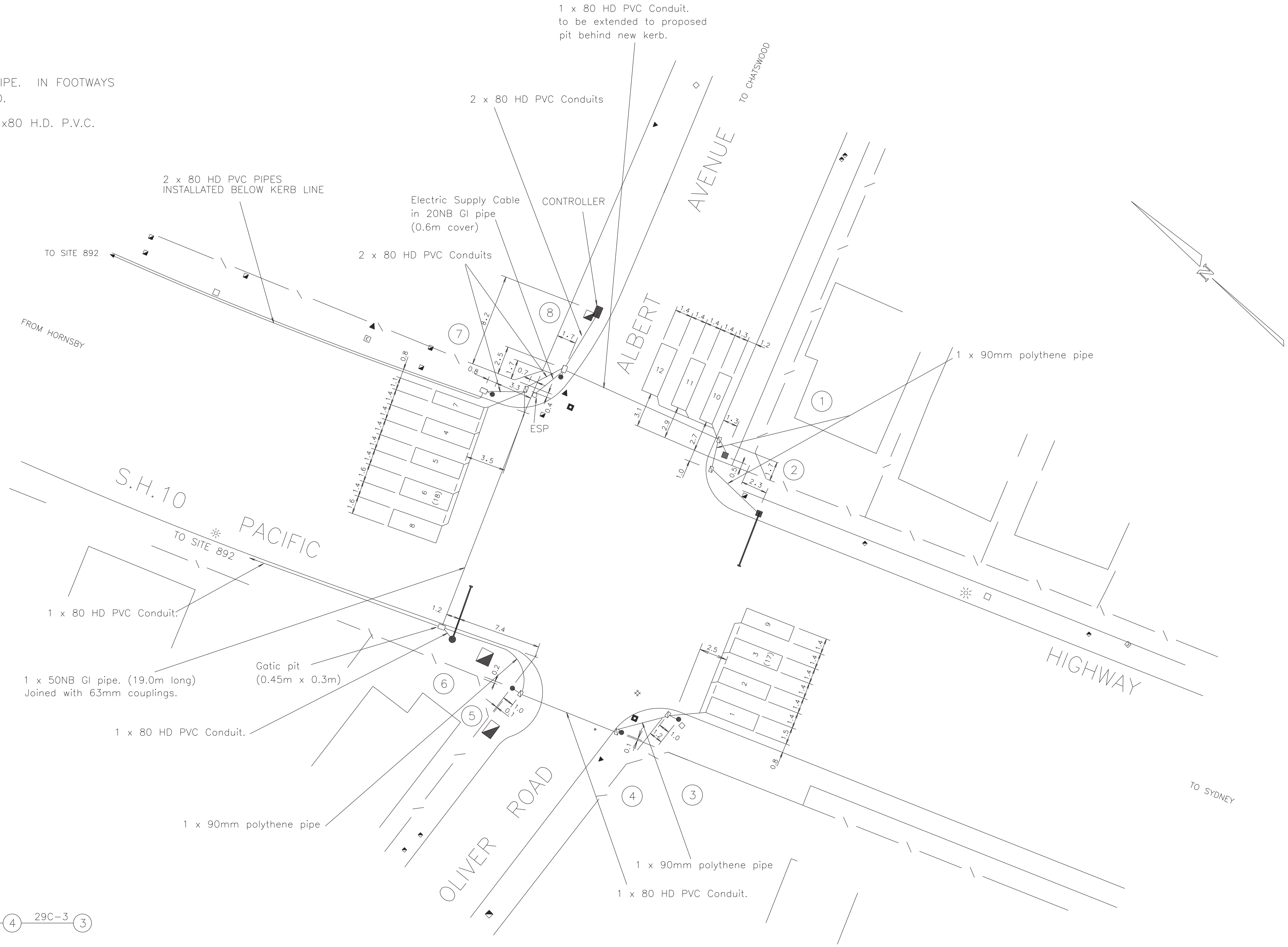
0010.490.VV.0882

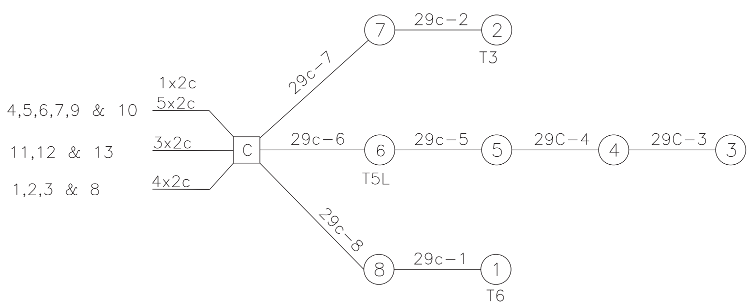
DRAWN USING CAD
DO NOT AMEND MANUALLY

Date in Service ....
Reconstructed: 27/6/93

NOTES

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.





CABLE INSTALLATION

CADD DRAWING FILE :	VV0882_11A_INS.dgn
ARCHIVE LOCATION :	

A ORIGINAL ISSUE
B ISSUE 30/09/97 PLAN AMENDED TO SUIT WAE. A.SONI CLZ
C ISSUE: J/I SS 23 DETECTOR NUMBERS ALTERED. B.K 23-06-99 C.Z

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
DESIGN LAYOUT	SHEET 9
CABLE CONN	SHEET 8F

U.B.D.REF. MAP195 H11
I.S.G. CO-ORDS E 316465 N1258614

R.W.A. 24/11/95
DESIGNED
C. L. [signature]
PASSED
RECOMMENDED

APPROVED
[signature]
ELECTRICAL DESIGN MANAGER
DATE 24/11/95

ROADS AND TRAFFIC AUTHORITY OF NSW

CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY,
ALBERT AVENUE AND
OLIVER ROAD
CHATSWOOD

CONSULTANT SERVICES BRANCH

SCALE 5 0 5 10

FILE 490 TS 148

SUPERSEDES SHEET 10B

REGN. 0010.490.VV.0882

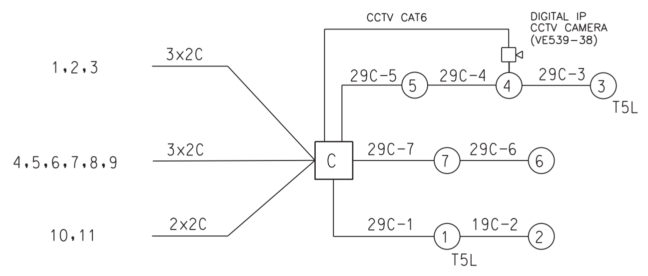
SHEET 11

ISSUE A B C

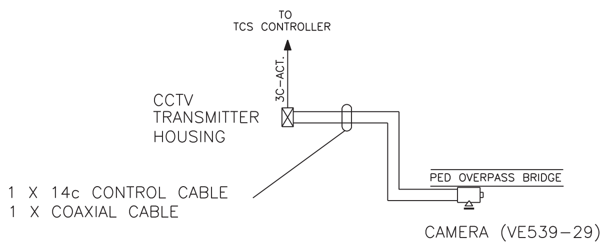
VV0882_11C_INS.dgn 3/11/2008 3:12:04 PM

VV.0718-11

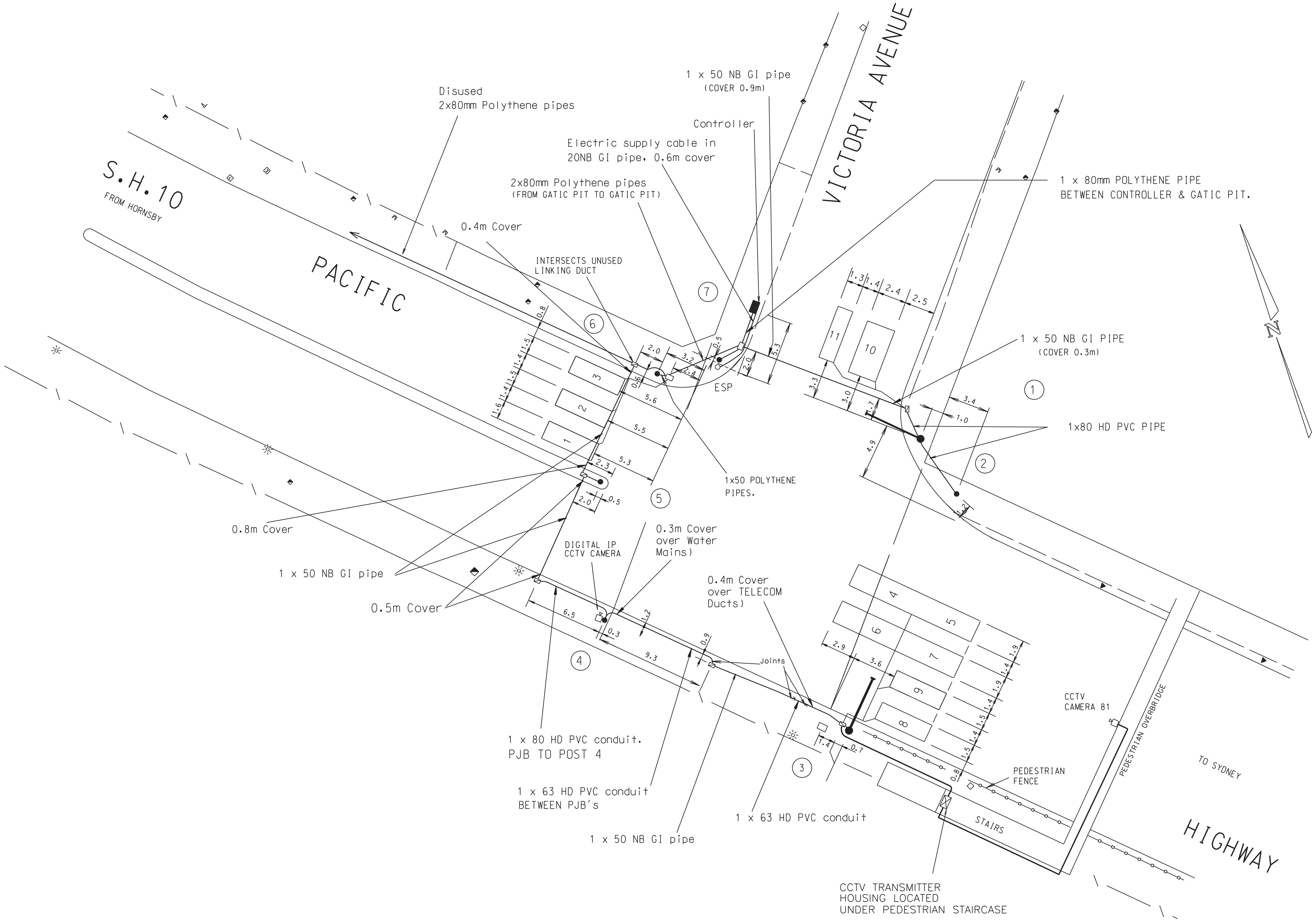
DRAWN USING CAD
DO NOT AMEND MANUALLY



CABLE LAYOUT



CCTV CAMERA 81
CABLE LAYOUT



NOTES

1. CABLE COVER: IN ROADWAYS 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1 X 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
3. CCTV CAMERA 81 MOUNTED ON PEDESTRIAN OVERBRIDGE. A DIGITAL IP CCTV CAMERA IS ALSO MOUNTED ON SIGNAL POST 4 WITH THE CONTROL GEAR IN THE TCS CONTROLLER.

CABLE INSTALLATION

A ORIGINAL ISSUE

'B' ISSUE 16/06/93 REMOVED ORIGINAL POST 4 M.M C.L.Z

C ISSUE RE-CONSTRUCTION WAE LAWSON/MEYER 4/94.

D ISSUE JI SE0601 POST 1 CHANGED TO TYPE 5S. POSTS 1,2 & 7 RELOCATED. A.SONI 24/01/95 CLZ

E ISSUE JI YEN 95/137 PLAN AMENDED TO SUIT W.A.E. R.W.A. 24/09/95 CLZ

F ISSUE CCTV CAMREA INSTALLED. A.SONI 27/04/98 CLZ

'G' ISSUE:- WAE DIGITAL IP CCTV CAMERA FAC'S ADDED. NOTE 3 REVISED. JF/LC 10-05-2018.

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
Design layout	VV0718-10
Cable chart	VV0718-12

U.B.D.REF. MAP 41 N7
I.S.G. CO-ORDS E 320163 N 1249490

MICHAEL MAHINTHAN
DESIGNED
C.L.ZAMUDIO
PASSED
C.L.ZAMUDIO
RECOMMENDED

APPROVED
R.C.BIRD
ELECTRICAL DESIGN MANAGER
DATE 21/05/93

ROAD AND TRAFFIC AUTHORITY OF NSW
CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY
AND
VICTORIA AVENUE
CHATSWOOD

CADD DRAWING FILE : VV0718_11G_INS.dgn
ARCHIVE LOCATION : ELECT

SYDNEY REGION
SCALE 5 0 5 10
FILE 490 TS 152
SUPERSEDES SHEET 2
REGN.
0010.490.VV.0718

SHEET 11
ISSUE
A B C D E F G

Sequence Number: 78815764

Date Generated: 02/01/2019

OPTUS yes

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

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www.1100.com.au

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Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

Sequence Number: 78815764

Date Generated: 02/01/2019

OPTUS yes

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Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

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Uecomm

Cable Uecomm Underground

Scale: #INSERT MAP SCALE#

Printed On: 02/01/2019

Sequence Number: 78815764

Location: 5 Centennial Ave

Job Location

Line

Point

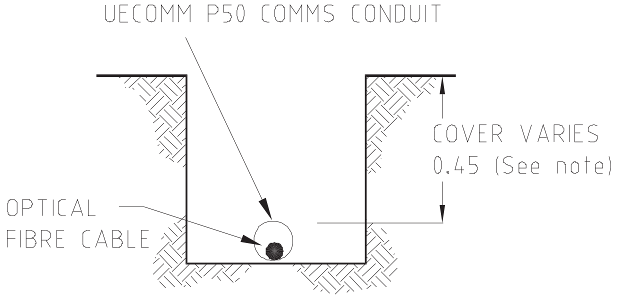
Area

Undergound Asset

Uecomm

LEGEND

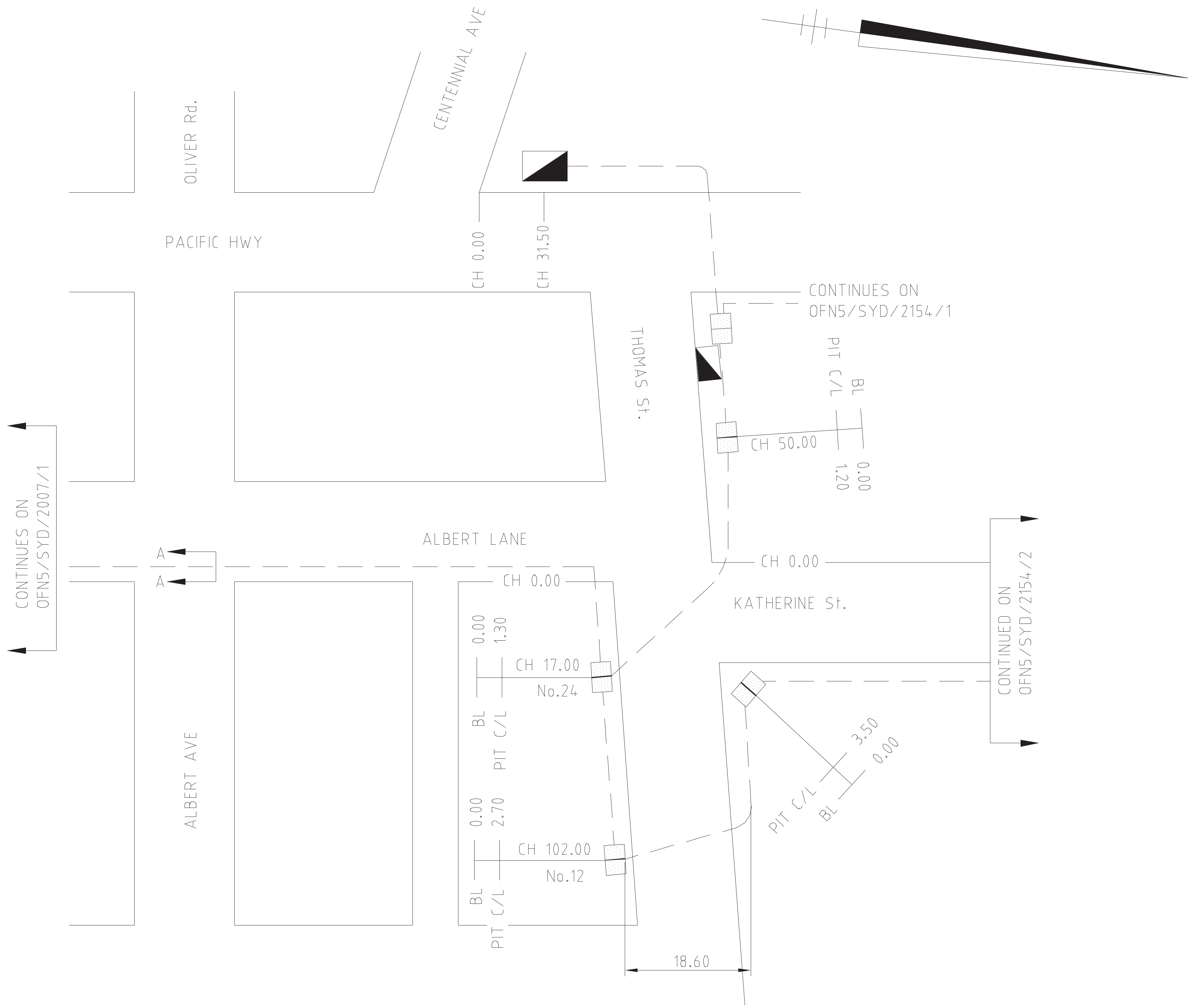
- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- UE P5 PIT
- UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
- CO - COVER
- FENCE LINE
- TELSTRA MANHOLE
- T - TELSTRA PIT



SECTION A-A

NOTE

Conduit depths quoted are approximate only and may change due to unforseen circumstances. Excavate by hand until conduit depth is determined.



DRAWING NOT TO SCALE

REVISIONS			
23.04.01	B	PIT AT THOMAS & PACIFIC ADDED WITH NEW CABLE	GRQ
20.02.01	A	TITLE REVISED	GRQ

Ue COMM
ACN 079 083 195
SYDNEY
Level 3 123 Pitt St
SYDNEY

DRAWN S.FENNEY 27-07-00
APPROVED R.BROWNE 1-9-00
UBD REF. 195 H10

DRG No. OFN5/SYD/2007/2 B

UNDERGROUND OPTICAL FIBRE CABLE RUN
ALBERT AVE TO PACIFIC HWY & KATHERINE ST
VIA ALBERT LANE & THOMAS ST
CHATSWOOD - 2067

A3

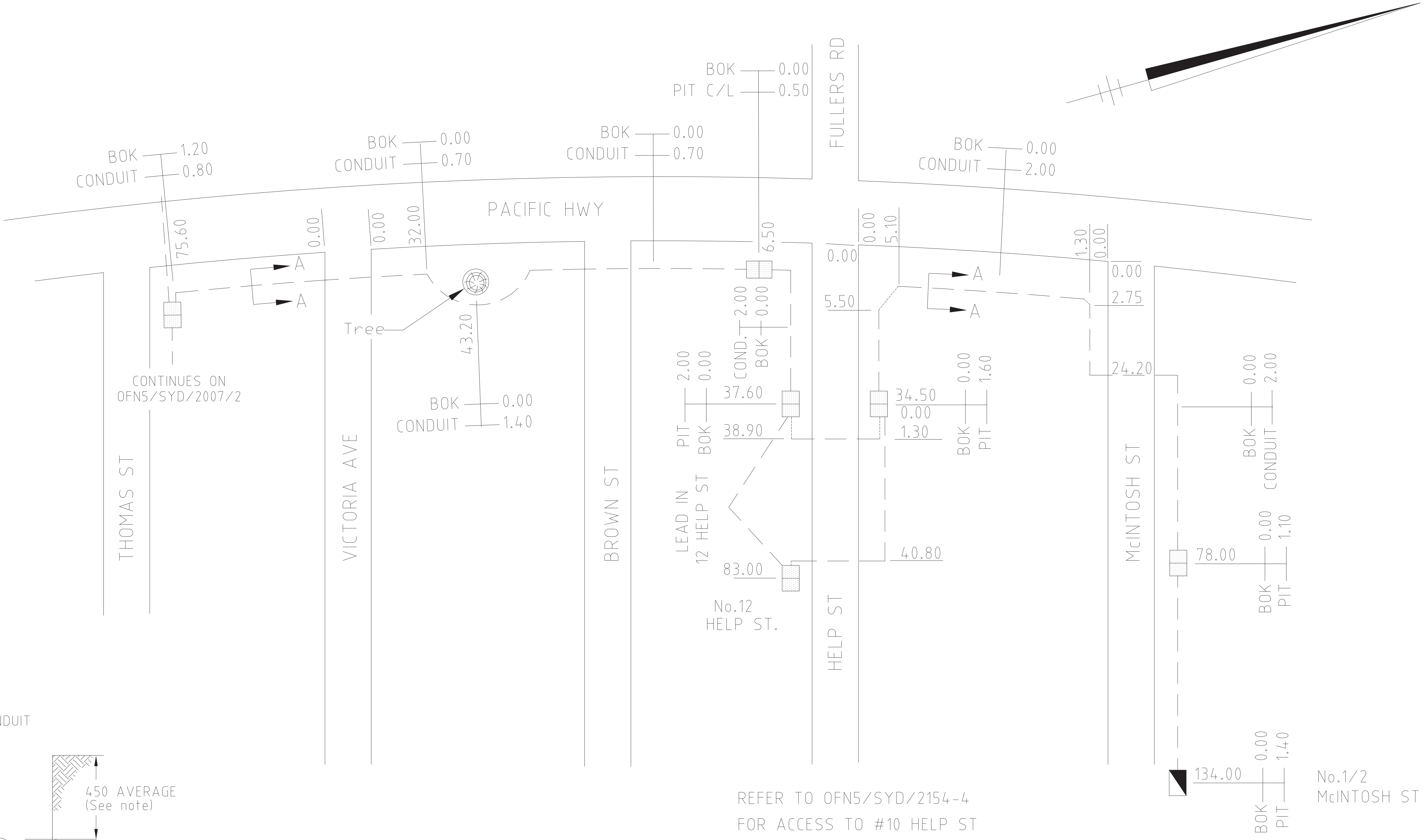
LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT
- UE P5 PIT
- UE P6 PIT

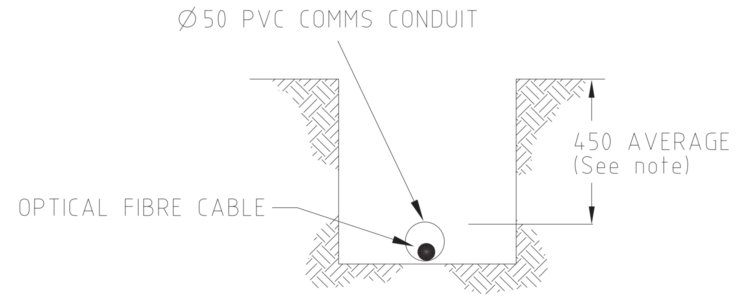
B/L - BUILDING LINE

BOK - BACK OF KERB

- FENCE LINE
- TELSTRA MANHOLE
- TELSTRA PIT



REFER TO OFN5/SYD/2154-4
FOR ACCESS TO #10 HELP ST



SECTION A-A

Note:
Conduit depths quoted are approximate only and may change due to unforseen circumstances. Excavate by hand until conduit depth is determined.

DRAWING NOT TO SCALE

REVISIONS			
21.02.07	B	REFERENCE TO 2154-4	
23.04.01	A	PITS ADDED	GRQ

Uecomm™ MAKING THE CONNECTION
ACN 079 083 195

SYDNEY
Suite 902, 20 Berry St
North Sydney - 2060

DRAWN G.R.Quin 27.02.01

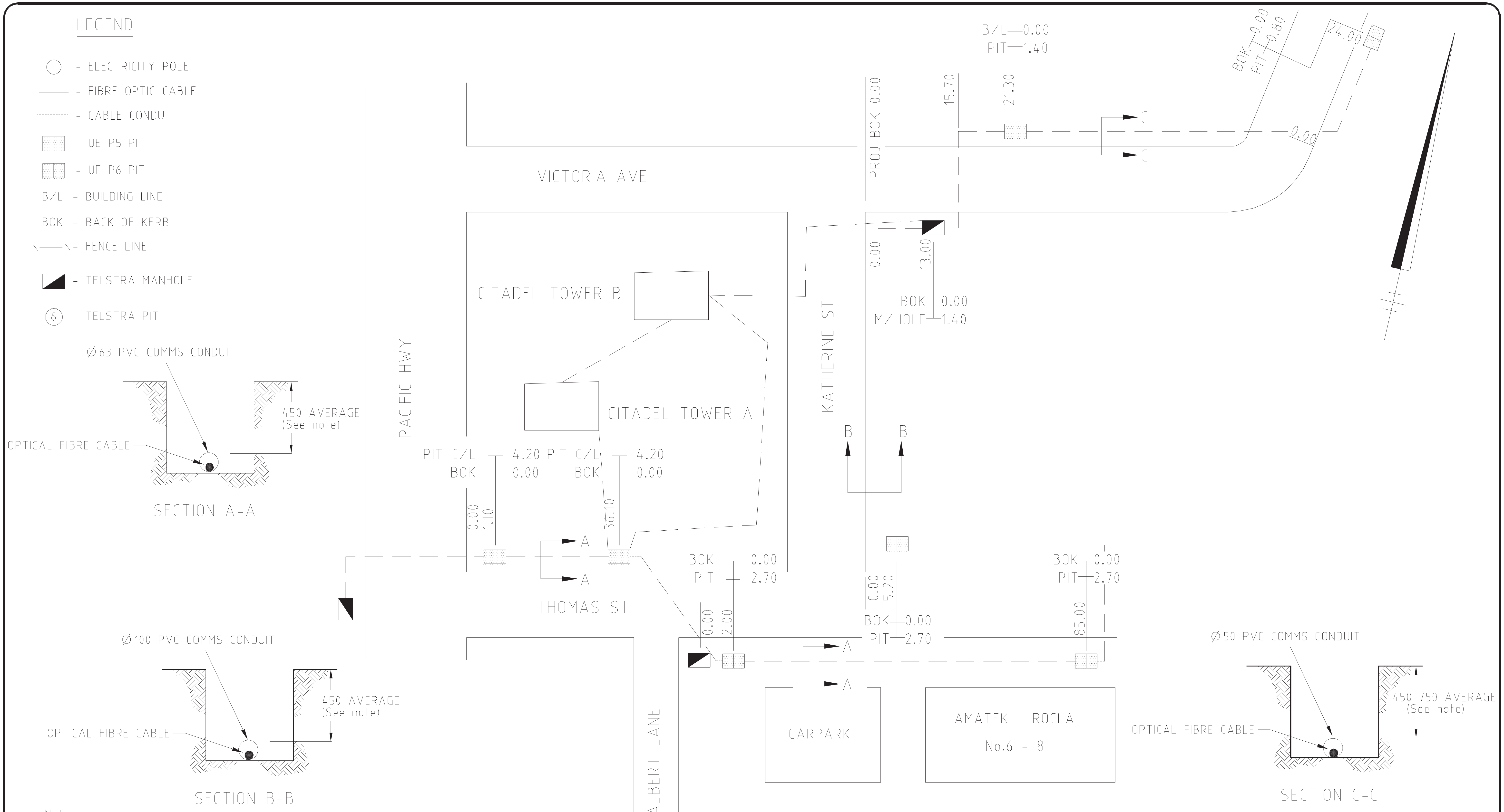
APPROVED S.Henry 27.02.01

UBD REF. 23-E10,D9,D8,E8,E7

DRG No. OFN5/SYD/2154-1 B

U/G FIBRE OPTICAL CABLE RUN
THOMAS ST TO McINTOSH ST VIA
PACIFIC HIGHWAY & HELP ST
CHATSWOOD NSW 2067

A1



Note:
Conduit depths quoted are approximate only and may change due to unforseen circumstances.
Excavate by hand until conduit depth is determined.

REVISIONS

Uecomm™
MAKING THE CONNECTION
ACN 079 083 195

SYDNEY
Suite 902, 20 Berry St
North Sydney - 2060

DRAWN G.R.QUIN 27.02.01

APPROVED S.HENRY 27.02.01

UBD REF.
23-E10, F9

DRG No. OFN5/SYD/2154/2

UNDERGROUND FIBRE OPTICAL CABLES
PACIFIC HWY TO VICTORIA AVE VIA
THOMAS ST & KATHERINE ST
CHATSWOOD - 2067

A1

DRAWING NOT TO SCALE

LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT

BL - BUILDING LINE
BOK - BACK OF KERB
CL - CENTRELINE OF CONDUIT
TP - TURNING POINT OF CONDUIT

- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE

0.6m - CABLE DEPTH

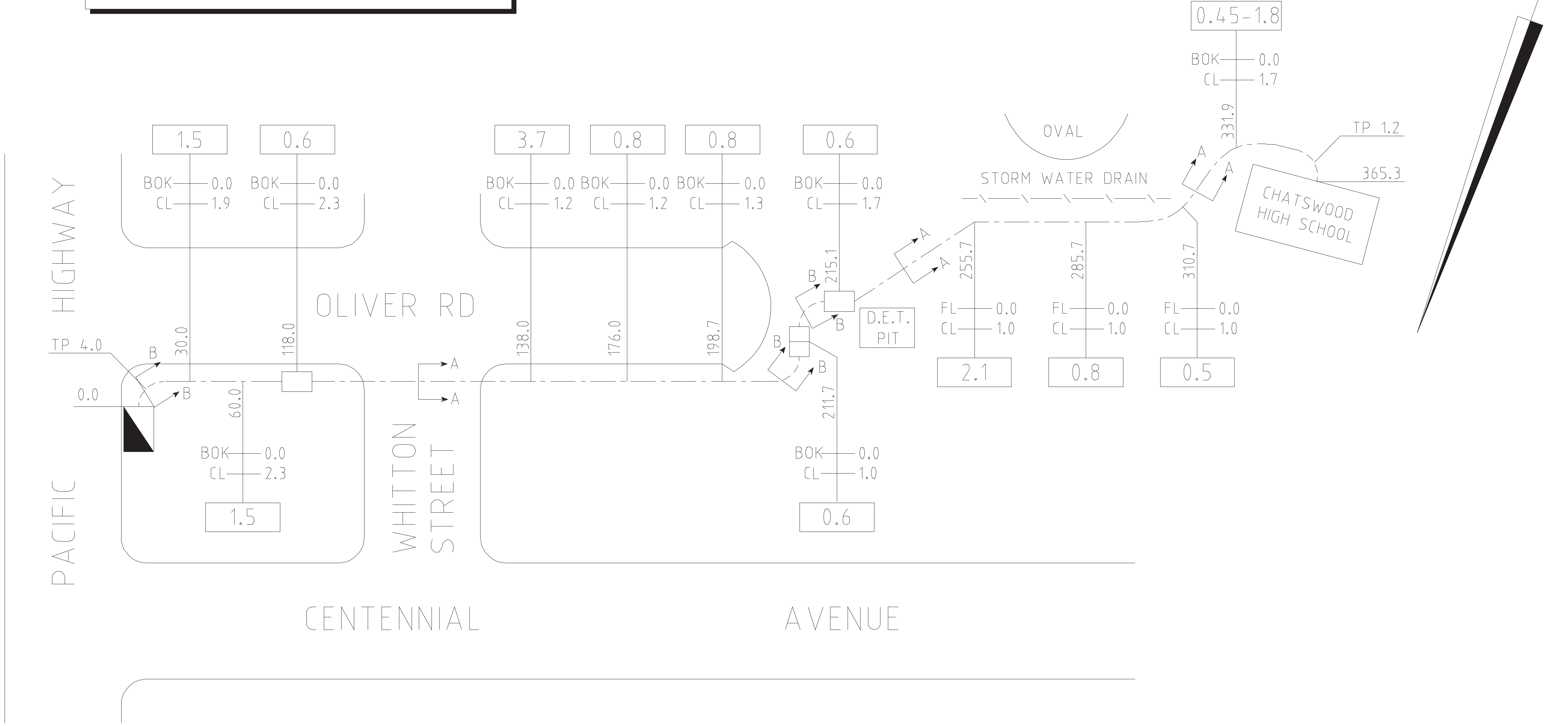
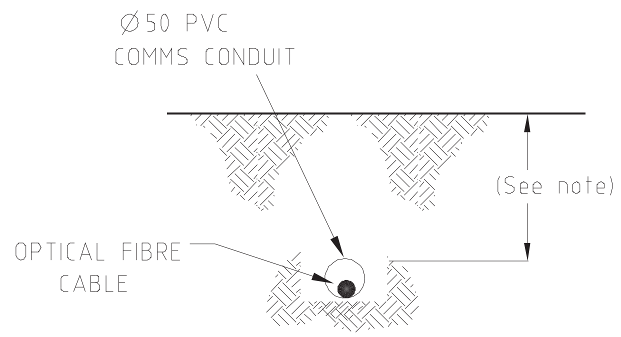
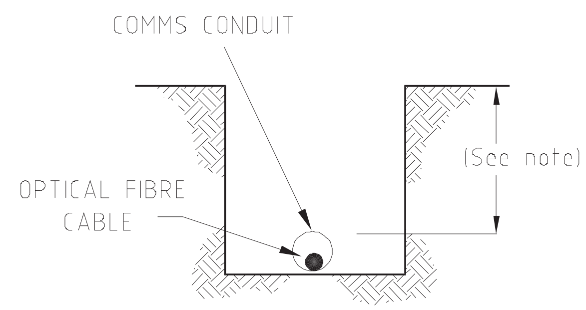


ABB Australia Pty Ltd.
109 Bannister Rd
Canning vale WA 6155
QUALITY ENDORSED COMPANY
ISO9001 REGISTRATION No.049
STANDARDS AUSTRALIA



SECTION A-A
BORE



SECTION B-B
TRENCH

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. Loop in all pits unless otherwise stated.

DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.
24.07.03	0	AS BUILT	MW	DC

REVISION

CONTACT OFFICER: TREVOR SMITH PH: (02) 8226 3244
PROJECT NUMBER: UEC-DE&TS-469
PLAN No.: -
UBD REF: 195-F11

Uecomm™ MAKING THE CONNECTION
ACN 079 083 195
UECOMM
MEL/SYD/QLD

DRAWN JMCK 24.07.03
DESIGN CHECKED M.W. 24.07.03
APPROVED 24.07.03 DC

DRG No. OFN5-SYD-2390

EXTERNAL ROUTE (1 OF 1)
CHATSWOOD HIGH SCHOOL (8232)
CENTENNIAL AVENUE
CHATSWOOD WEST 2067

A3

DRAWING NOT TO SCALE

LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE
- 0.6m - CABLE DEPTH

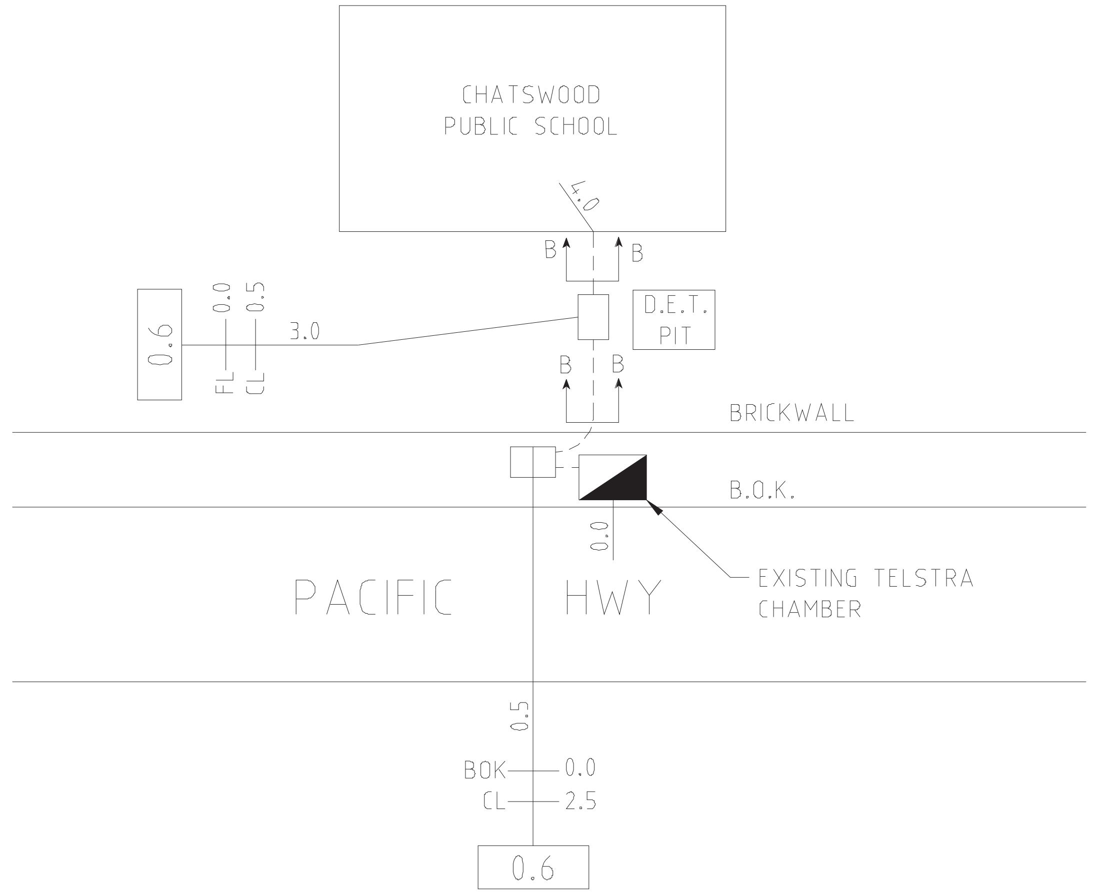
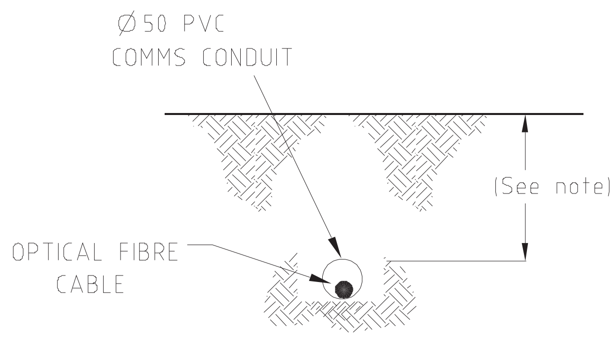
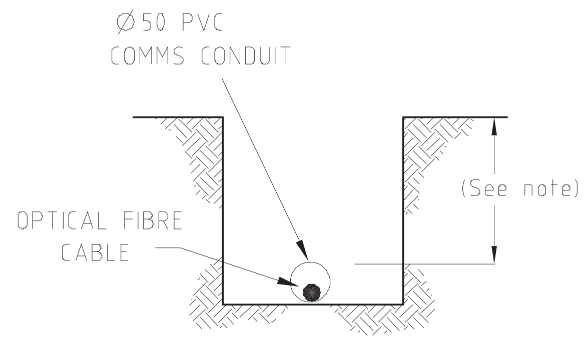


ABB Australia Pty Ltd.
109 Bannister Rd
Canning vale WA 6155
QUALITY ENDORSED COMPANY
ISO9001 REGISTRATION No.049
STANDARDS AUSTRALIA



TYPICAL SECTION
BORE



SECTION B-B
TRENCH

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. Loop in all pits unless otherwise stated.

REVISION

DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.
26.07.03	0	AS BUILT	MW	DC

CONTACT OFFICER	TREVOR SMITH PH: (02) 8226 3244
PROJECT NUMBER	UEC-DE&TS-470
PLAN No.	-
UBD REF	195-G10

Uecomm™
MAKING THE CONNECTION
ACN 079 083 195

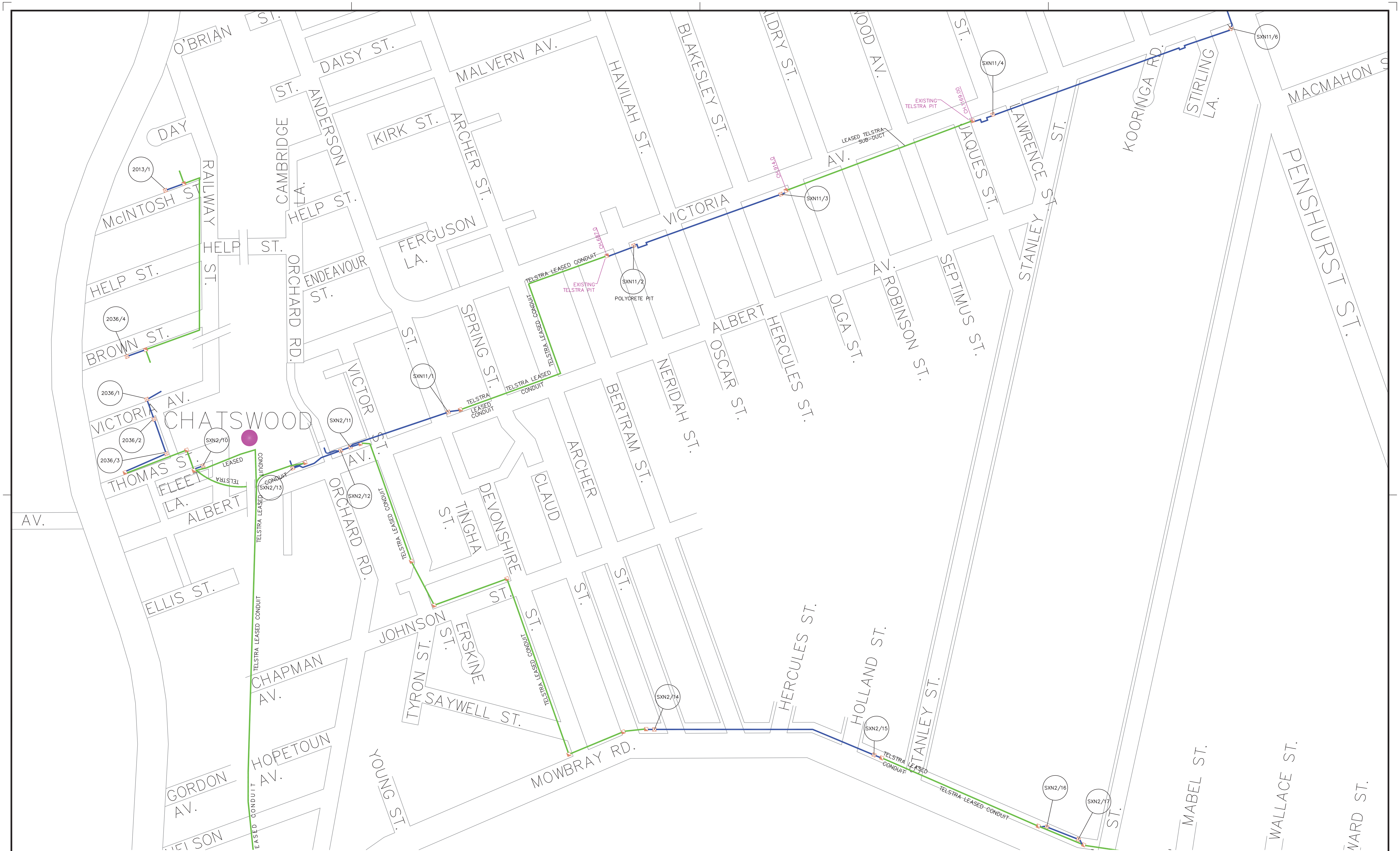
UECOMM
MEL/SYD/QLD

DRAWN JMCK 26.07.03
DESIGN CHECKED M.W. 26.07.03
APPROVED 26.07.03 DC

DRG No. OFN5-SYD-2391

EXTERNAL ROUTE (1 of 1)
CHATSWOOD PUBLIC SCHOOL (7409)
PACIFIC HIGHWAY,
CHATSWOOD WEST 2067

A3



LEGEND

(red line)	VERIZON DUCT
(blue line)	VERIZON DUCT
(green line)	TELSTRA DUCT
☒	VERIZON PIT
◣	TELSTRA PIT

REV	DATE(D/M/Y)	DESCRIPTION	DRAWN	CHECKED	APPROVED
C1	20/5/13				

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PROJECT
Verizon
SOUTHERN CROSS NORTH

DRAWING TITLE
SOUTHERN CROSS NORTH
SHEET 16 OF 23

REVISION
C1

DRAWING NUMBER
VZ

SCALE
N.T.S.

SIZE
A1

aarnet
Australia's Academic and Research Network

Sequence No: 78815767
Job No: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067

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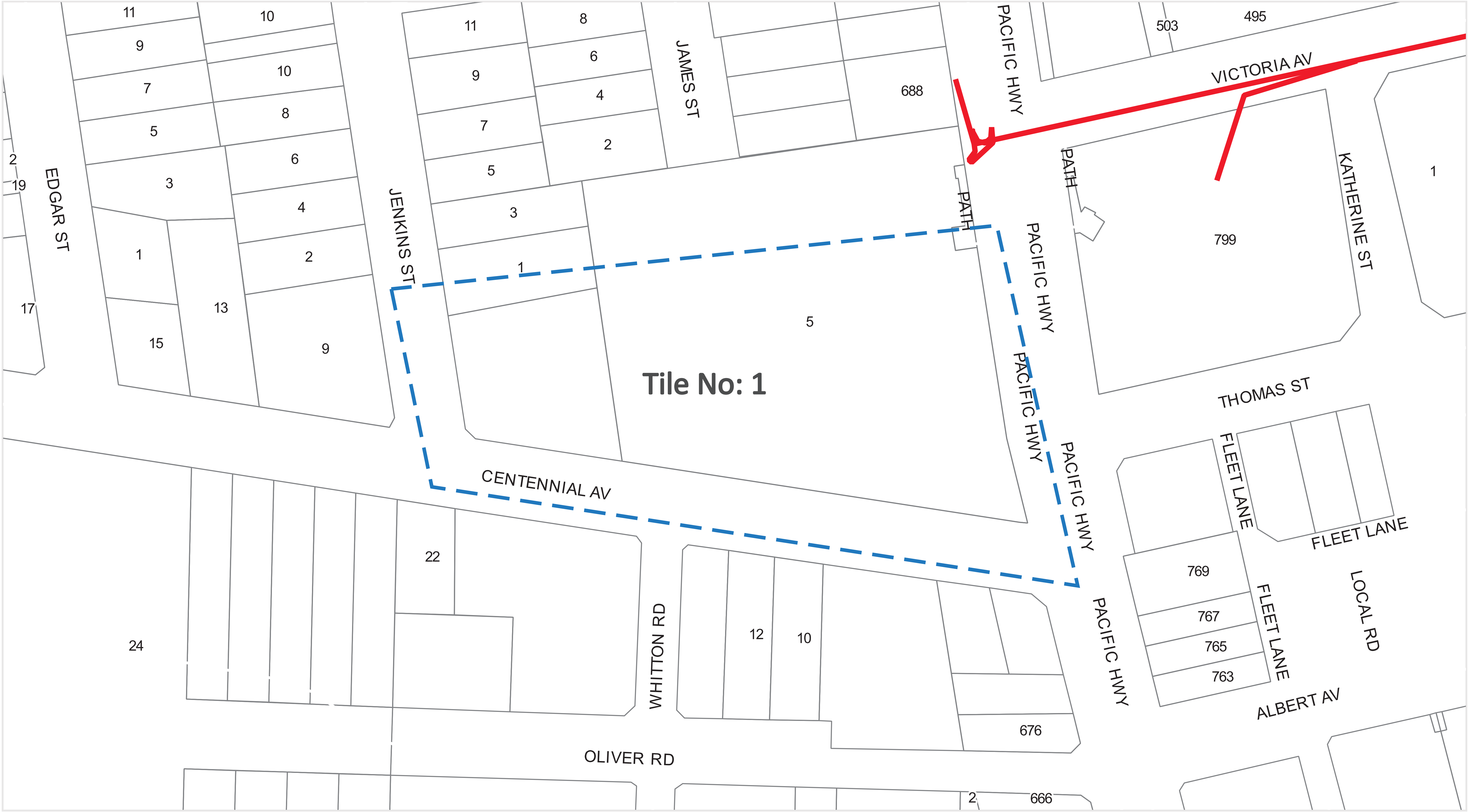
www.1100.com.au
The Essential First Step.



Legend | Scale: 1:1500

N

Enquiry Area
AARNet Fibre Optic Assets
AARNet Power Assets
Cadastre

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Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000
PH:(07) 3233 9895 FAX:(07) 3233 9880

Attention: Mrs Durkin Construction Office
Fax: 0297120308
DBYD Enquiry Number: 78815761

Date: 02/01/2019

Location: 5 Centennial Ave
Chatswood
NSW
2067

DBYD ENQUIRY RETURN:

PIPE Networks **DOES** own or operate telecommunications network infrastructure within the area detailed above.

The affected network **is contained in the PIPE Networks duct network** and can be found on **PIPE Networks** own network plans.

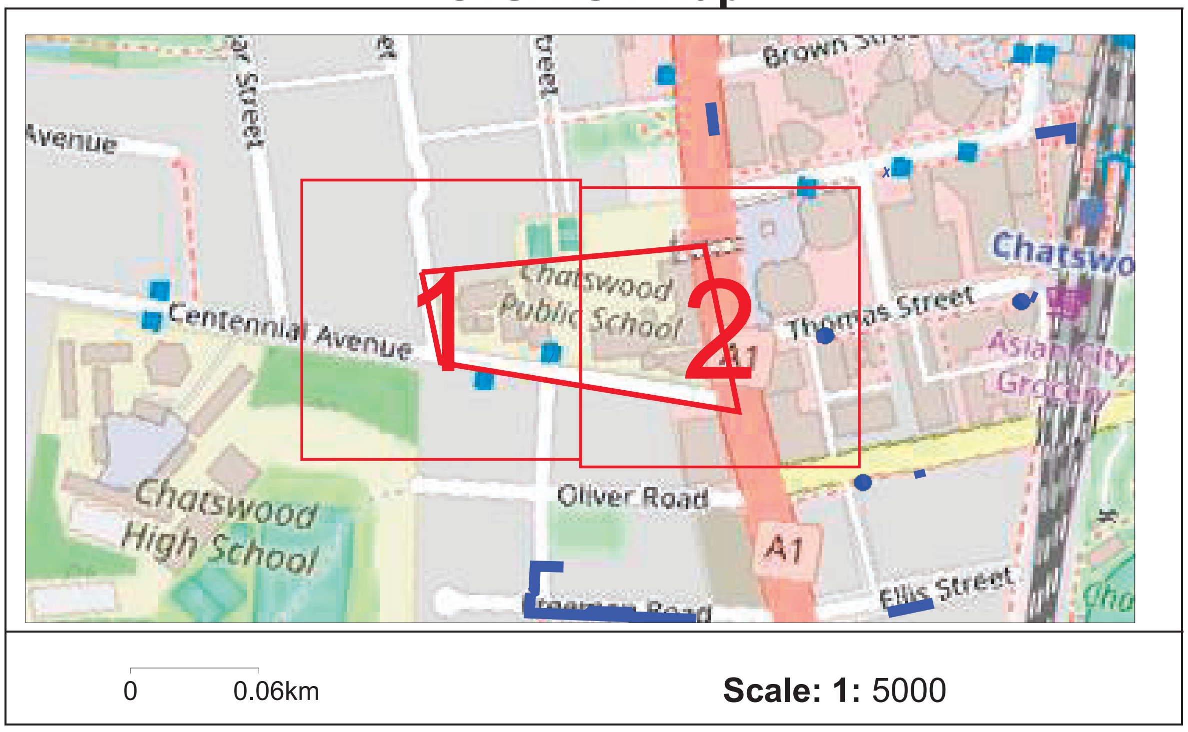
This network is vital to our operations and as such, it is critical that no works commence within the area until a PIPE Networks representative has contacted you.

A PIPE Networks representative will contact you within 24 hours to further discuss your intended works. If you do not hear from PIPE networks within 24hours please call us for assistance.

Due to continued network expansion, this network information can only be considered valid and accurate for 28 days from issue.

PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

Overview Map



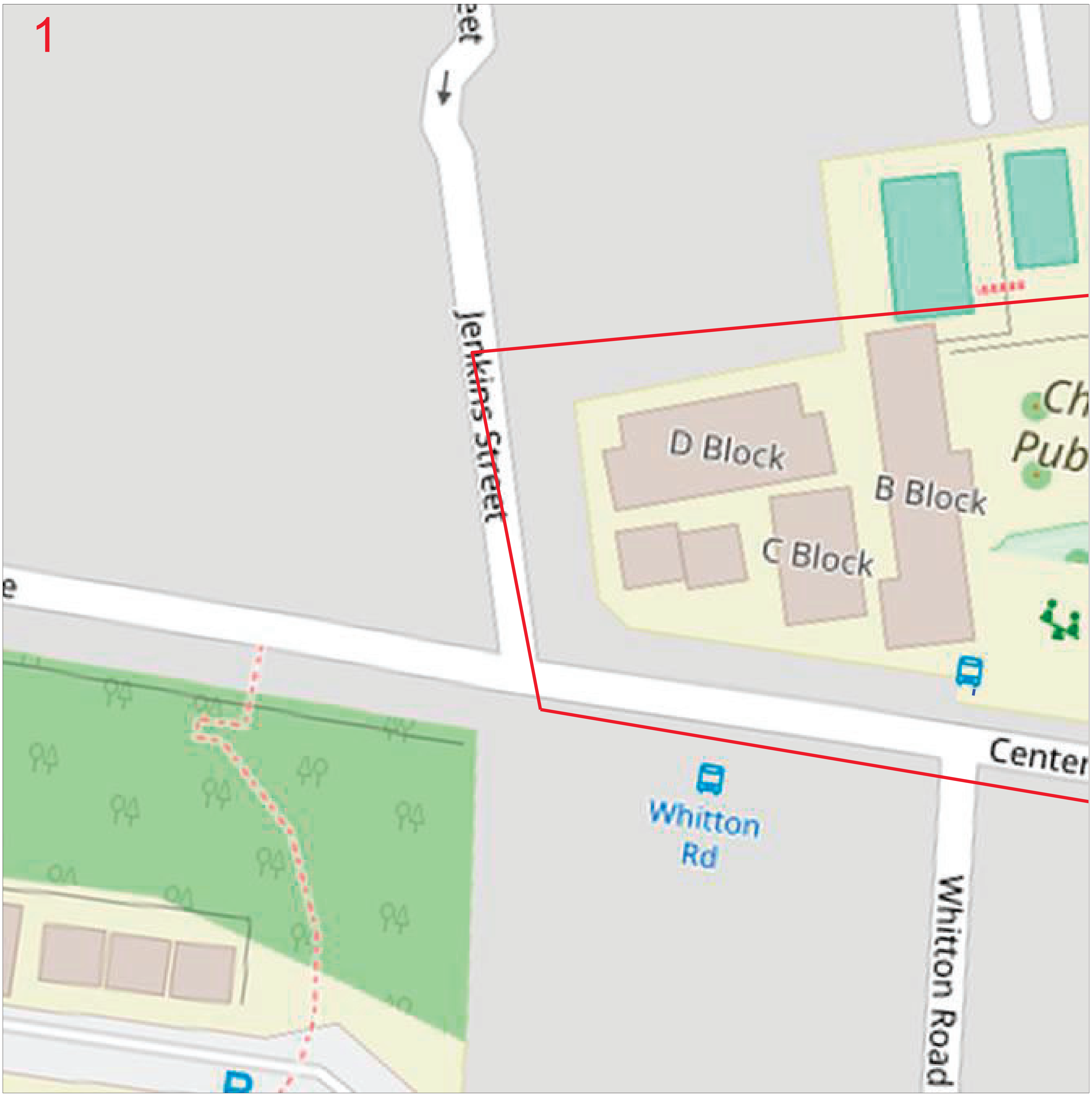
PIPE Networks (for information specific to this job only)
Ph (07) 3233 9895
Email: dbyd@pipenetworks.com

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.*

Note: *If the works fall in an area that adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 78815761

Map Sheet: 1

Scale: 1:750

0 0.008km

LEGEND

DBYD Request Area

Line

Area

Asset

Manhole

Duct

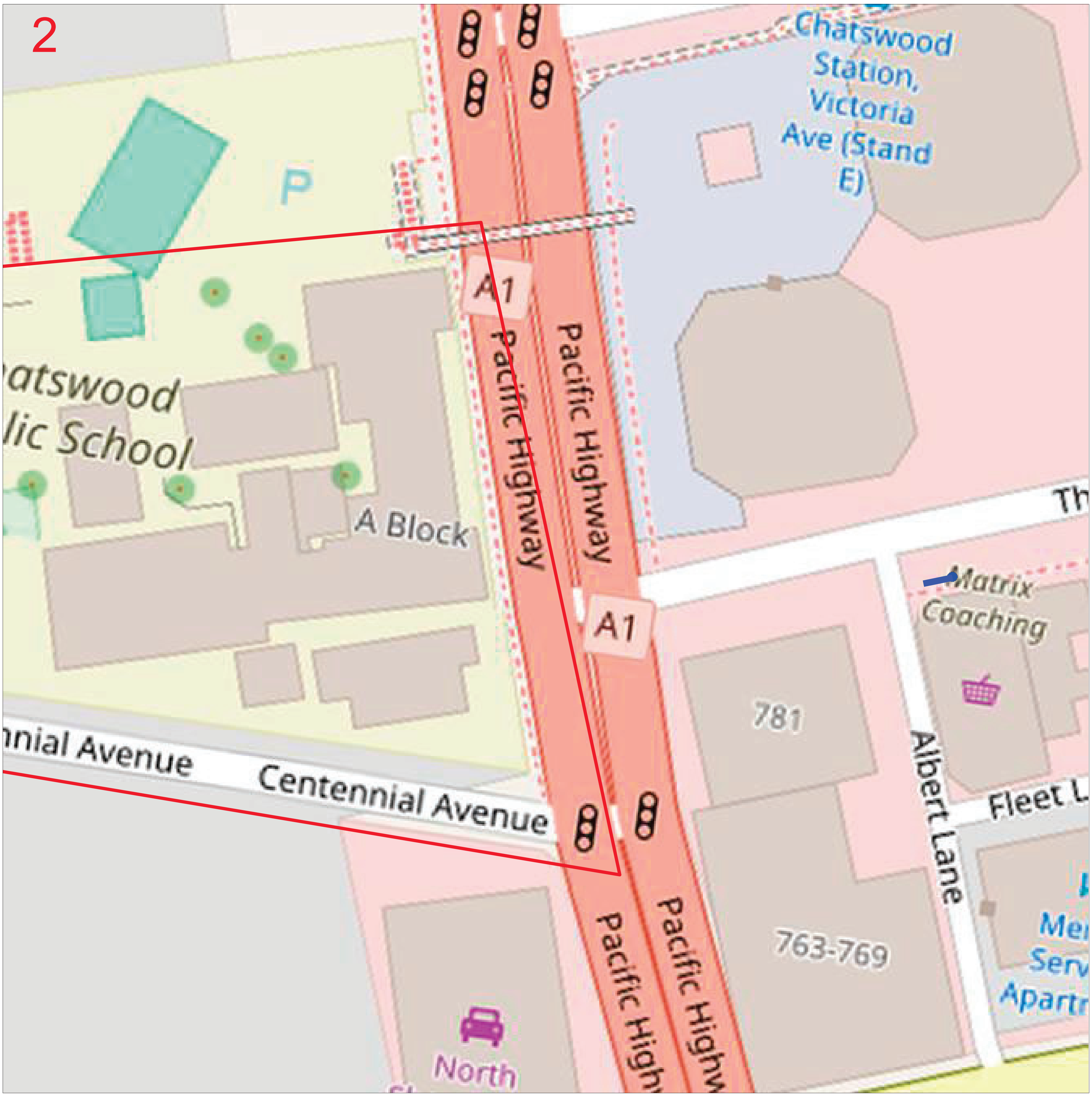
N

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.*

Note: *If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 78815761

Map Sheet: 2

Scale: 1:750

0 0.008km

LEGEND

DBYD Request Area		Asset	
	Line		Manhole
	Area		Duct

N

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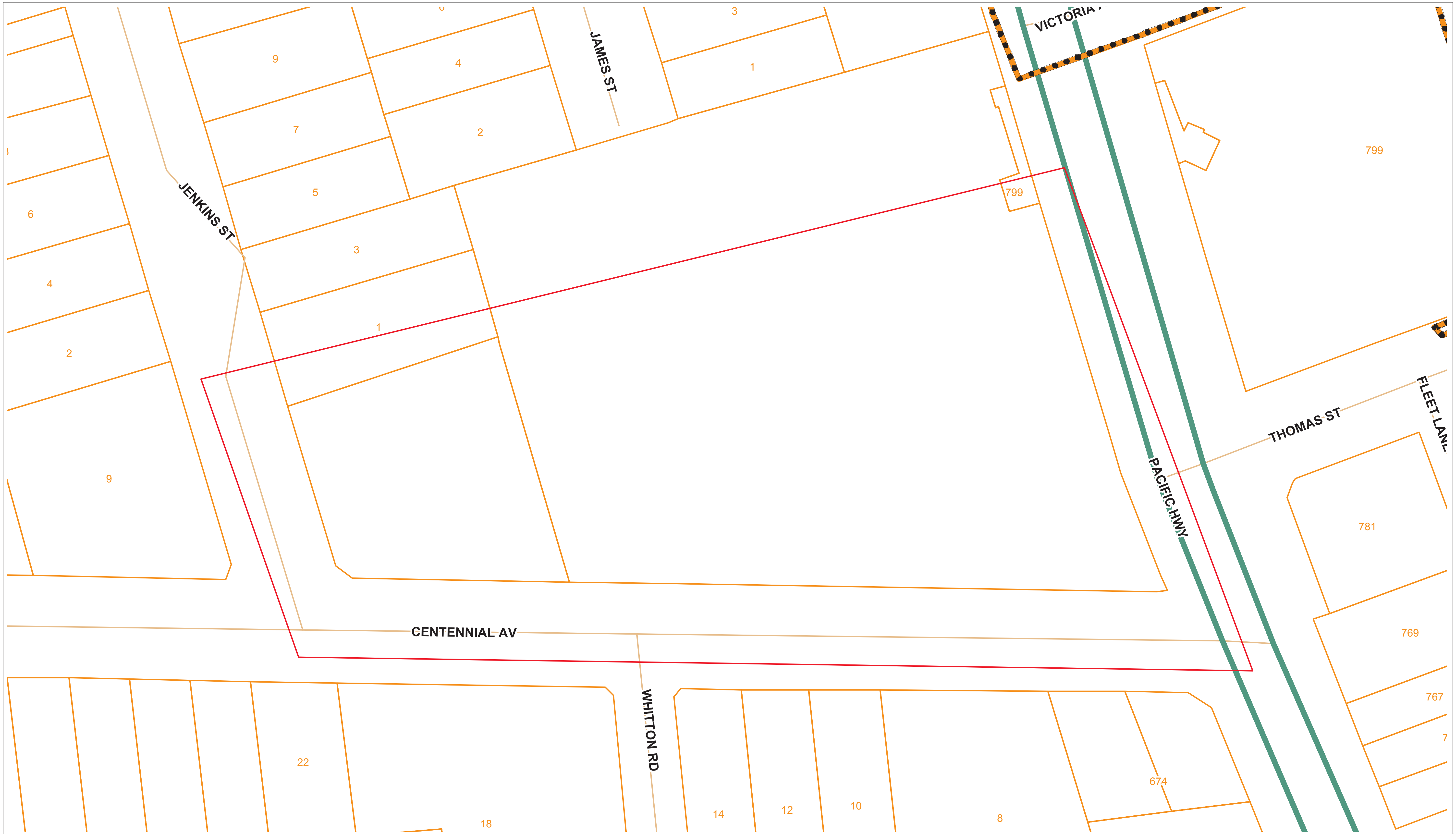
Note: *If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***



Sequence Number: 78815760

Date: 02/01/2019

DISCLAIMER: THIS DRAWING SHOULD NOT BE SCALED TO LOCATE CABLES. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE. IF YOU REQUIRE INFORMATION REGARDING LOCATING THE CABLE PLEASE CALL NEXTGEN. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR DIAL BEFORE YOU DIG USE. THIS PLAN CONTAINS COMMERCIALLY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ONTO OTHER PARTIES WITHOUT WRITTEN CONSENT FROM NEXTGEN PTY LTD.

nextgen GROUP

LEGEND

Digsite	Assets
Point	Cable
Line	3rd Party Duct
Area	Marker Post

SEQUENCE NUMBER:	78815769
JOB NUMBER:	15511972
ADDRESS:	5 Centennial Ave Chatswood

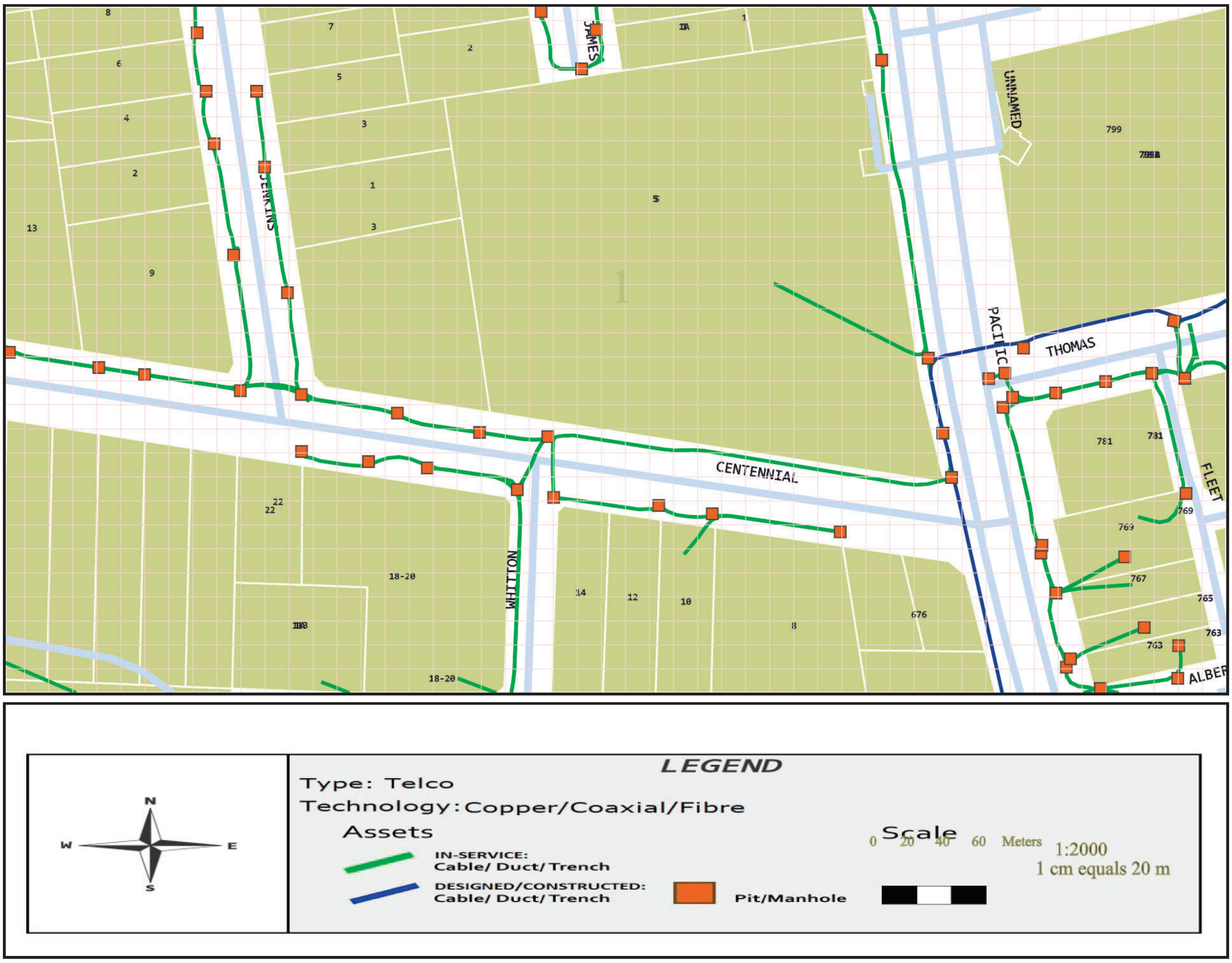
SCALE 1:1000

0 0.01km

Indicative Plans

Issue Date:	02/01/2019	DIAL BEFORE YOU DIG www.1100.com.au
Location:	5 Centennial Ave , Chatswood , NSW , 2067	

1



Emergency Contacts

You must immediately report any damage to **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

NORTH WEST
22 Giffnock Ave
Macquarie Park
NSW 2113 Australia
smnwdbyd@transport.nsw.gov.au
Emergency (24hrs) 1800 019 989

Date: 02/01/2019

To:
Mrs Durkin Construction Office
Durkin Construction
39 Waterview St
Five Dock NSW 2046

Response to Dial Before You Dig enquiry

Sydney Metro has been notified of your enquiry as detailed below. Ensure that you review all other documents included with this response for additional details.

Sequence No: 78815770

Job No: 15511972

Location: 5 Centennial Ave
Chatswood NSW 2067

If you require further information, please contact Sydney Metro by email: smnwdbyd@transport.nsw.gov.au

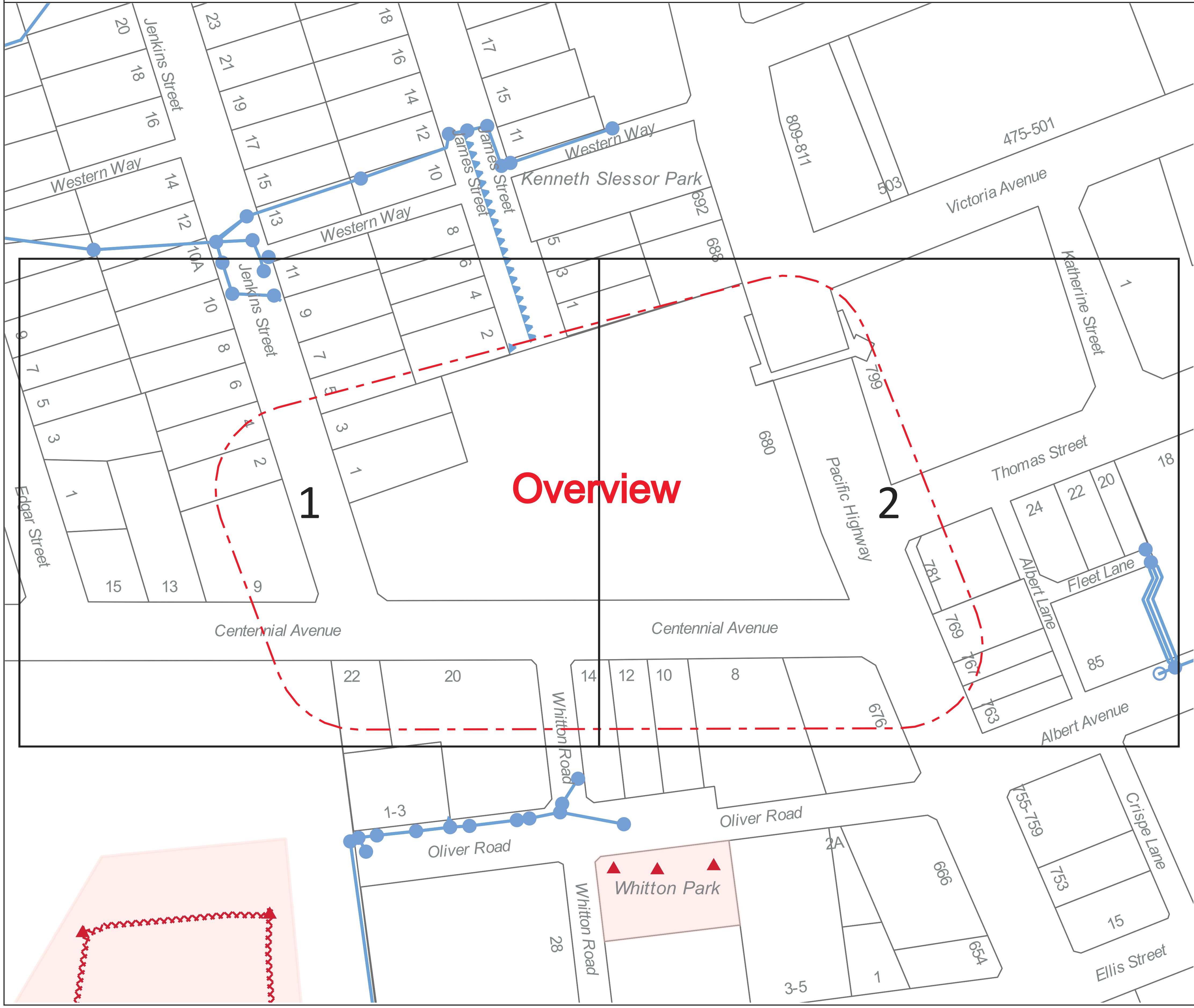
Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.

Name: Mrs Durkin Construction Office
Email: durkindbyd@gmail.com
Sequence no.: 78815757
Job no.: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067

DIAL BEFORE YOU DIG
www.1100.com.au

WILLOUGHBY CITY COUNCIL
City of Diversity



The information shown on this drawing is provided by Willoughby City Council and details Council's underground stormwater, electrical or communication assets. Unless otherwise indicated, it does not include private assets or assets of any other authority. Where assets are shared or owned by another party, the owner(s) of the asset must be contacted for any further information or approvals regarding the asset.

Information provided on any plans by Willoughby City Council may have inaccuracies or omissions. While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Willoughby City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Exact positions of any assets shown on this plan must be confirmed by field investigation. Please refer to the cover letter attached to your email for further information.

Locations of Council's electrical assets are indicative only and some of these electrical assets may not be displayed on the drawing. Please contact Council on (02) 9777 1000 for further information.

All electrical apparatus shall be regarded as live until proven to have been de-energised. Contact with live electrical apparatus will cause severe injury or death.

Excavation work must be in accordance with the Work Health and Safety Regulation 2017 and the SafeWork NSW Excavation Work Code of Practice which can be obtained from SafeWork NSW.

Any works within Council's public road reserve or Council property require Council's consent. Council must be contacted on (02) 9777 1000 prior to the commencement of any work to be carried out in Council property or within the vicinity of Council's electrical assets.

Council Stormwater pipe
Stormwater pipe shared with or owned by another party
Council Stormwater node
Stormwater node shared with or owned by another party
Area containing electrical assets
Council underground electrical cables
Council miscellaneous electrical assets
Council communication cables
Council communication pits

N
Map not to scale

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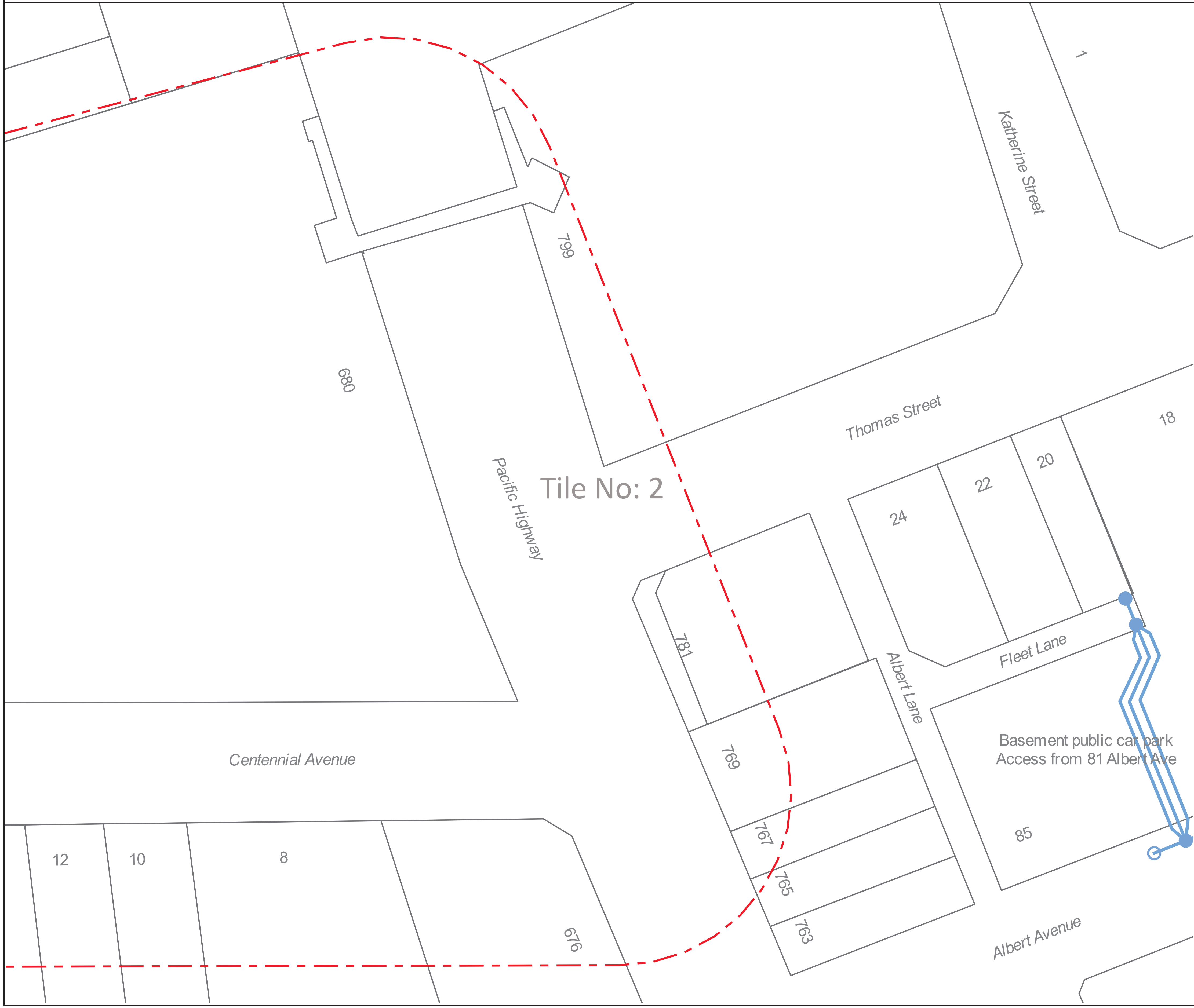

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