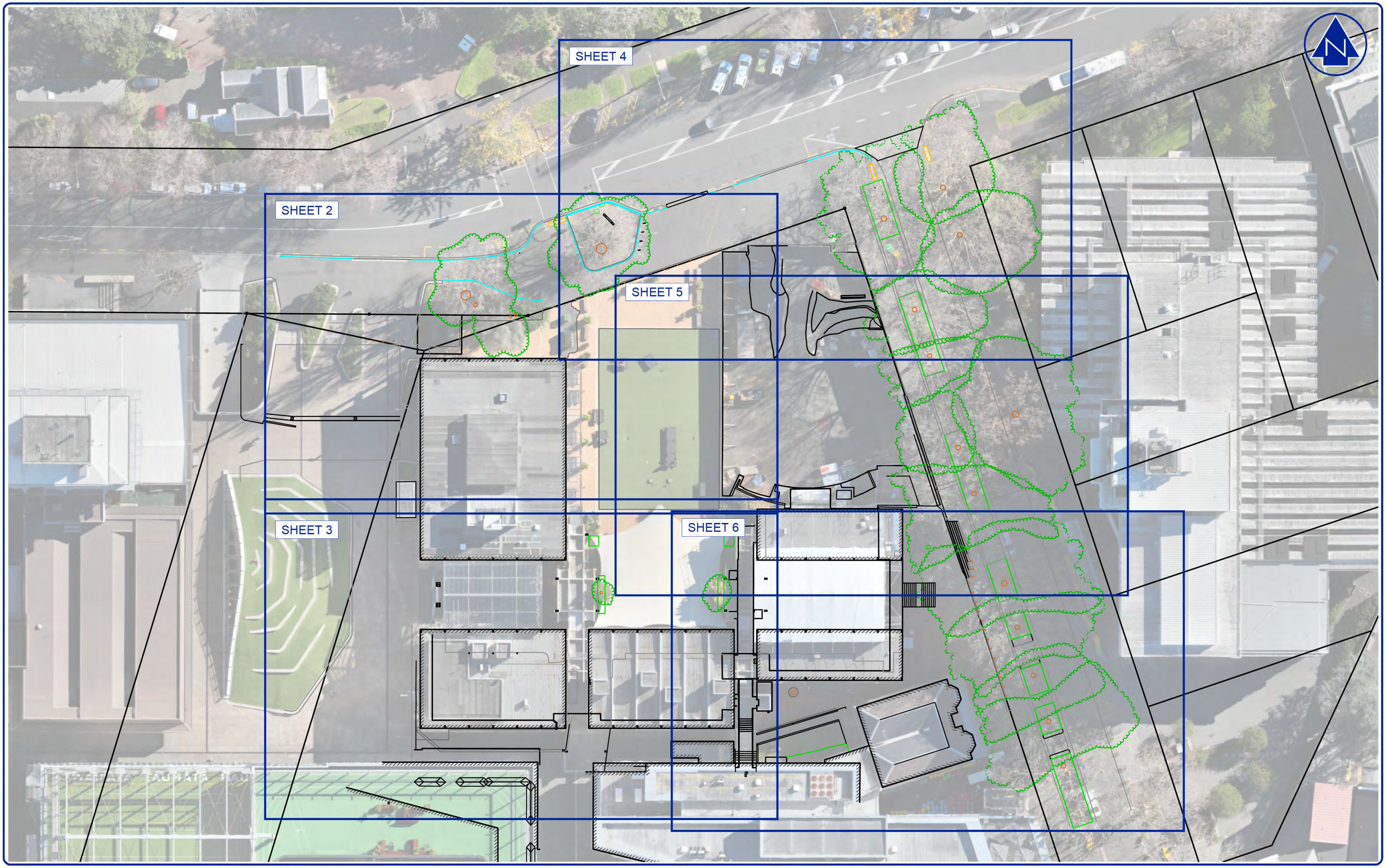
C

Appendix C – Topographic Survey



SURVEYED	JAB/AB/DS	07/26
CALC		
DRAWN	JAB/JC	0726

APPROVED DATE

REVISION	CHANGES	CHECKED	DATE
0	ORIGINAL ISSUE	SB	30/07/26
1	DRAINAGE & SERVICE INFORMATION UPDATED	SB	27/08/26

(1) COORDINATES AND BEARINGS ARE IN TERMS OF THE NEW ZEALAND GEODETIC 2000 DATUM BASED ON THE NEW ZEALAND TRANSVERSE MERCATOR PROJECTION. THIS DATUM HAS A SCALE FACTOR AT THE CENTRAL MERIDIAN OF 0.9996. THIS TRANSVERSE MERCATOR PROJECTION HAS A FALSE VALUE OF 10000000mN, 1600000mE.

(2) THE ORIGIN OF COORDINATES FOR THIS PROJECT IS SS 196 SO 50687 LINZ CODE CJNF 5920116.602mN 1757634.675mE.

(3) LEVELS/HEIGHTS ARE IN TERMS OF THE LINZ DATUM "NEW ZEALAND VERTICAL DATUM 2016 (NZVD16)".

(4) THE ORIGIN OF LEVELS FOR THIS PROJECT IS SS 196 SO 50687 LINZ CODE CJNF RL = 45.300m

(5) TO OBTAIN GEODETIC PROJECTION DISTANCE (FOR DERIVING GEODETIC DATUM COORDINATES) MULTIPLY MEASURED DISTANCE BY 0.9999(061)

(6) THE BOUNDARIES SHOWN WERE OBTAINED FROM A DIGITAL DOWNLOAD FROM THE LINZ DCDB AND ARE SUBJECT TO A LINZ ACCREDITED REGISTERED CADASTRAL SURVEY

(7) BACKGROUND INFORMATION SHOWN HAS BEEN OBTAINED FROM EXISTING HISTORICAL AS-BUILT, ARCHIVED & COUNCIL RECORDS. DATA MAY BE SUBJECT TO ERRORS OR OMISSIONS. THIS INFORMATION SHOULD NOT BE USED FOR DESIGN OR CONSTRUCTION PURPOSES.

(8) PLEASE ENSURE CONTRACTORS VERIFY ALL LOCATIONS OF EXISTING SERVICES BEFORE ANY WORKS BEGIN

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TITLE
TOPOGRAPHICAL AS-BUILT SURVEY

SCALE NTS (A1) NTS (A3)

DRAWING No	SHEET	REVISION
7119-700-01	1 of 6	1

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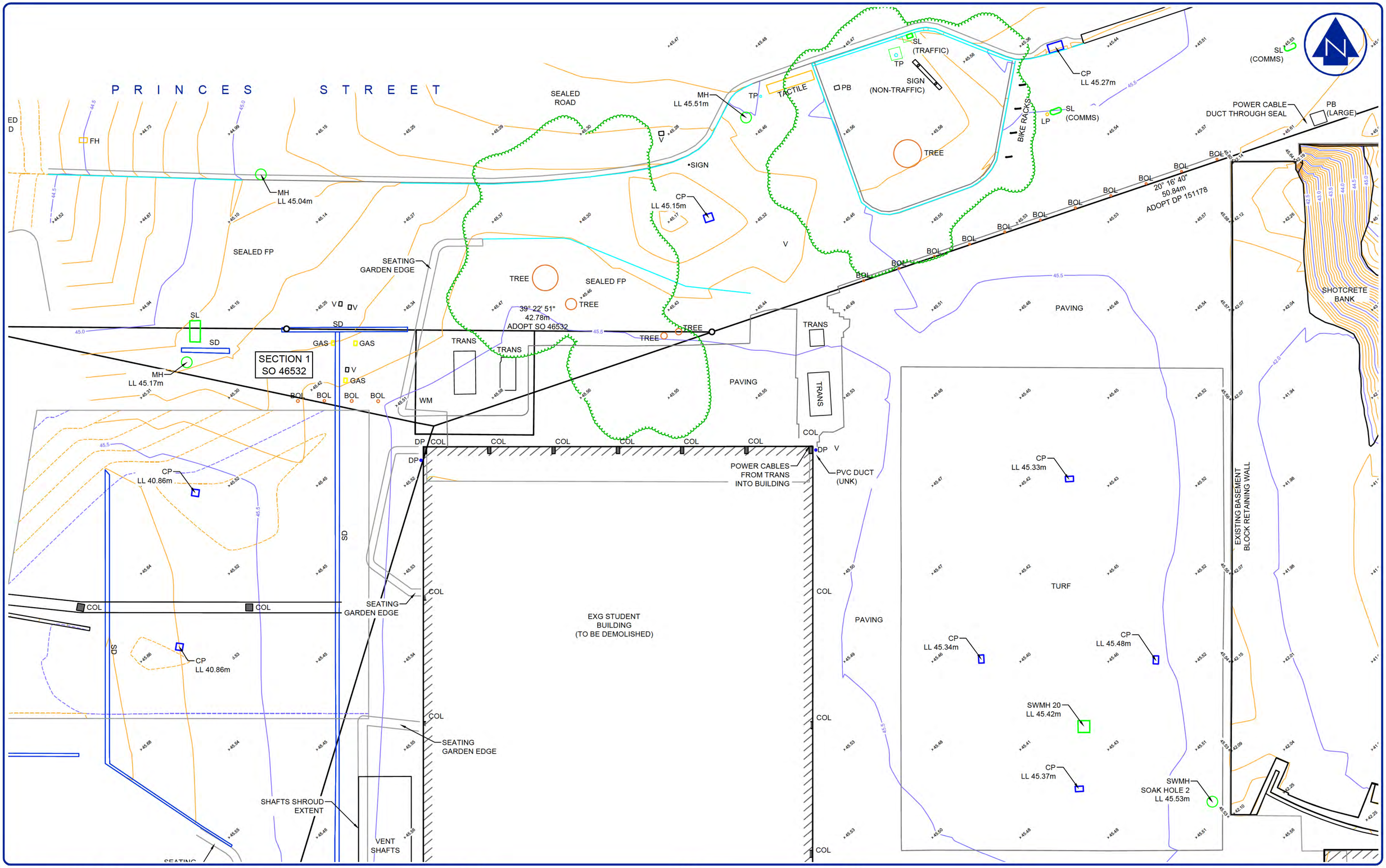

SURVEYED	JAB/AB/DS	07/26	
CALC			
DRAWN	JAB/JC	0726	

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1	DRAINAGE & SERVICE INFORMATION UPDATED	SB	27/08/26

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SCALE 1:100 (A1) 1:200 (A3)

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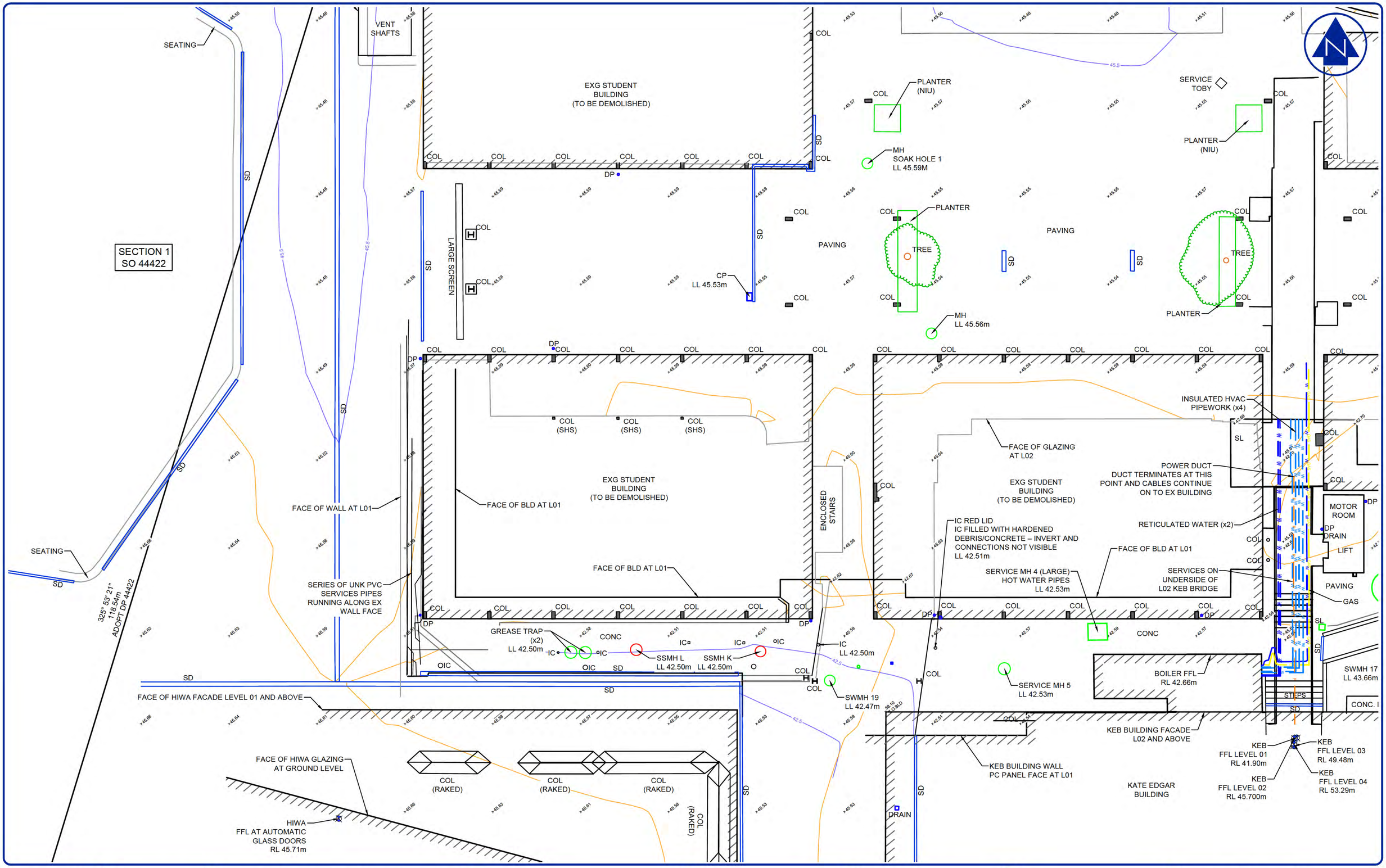

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CALC			
DRAWN	JAB/JC	0726	

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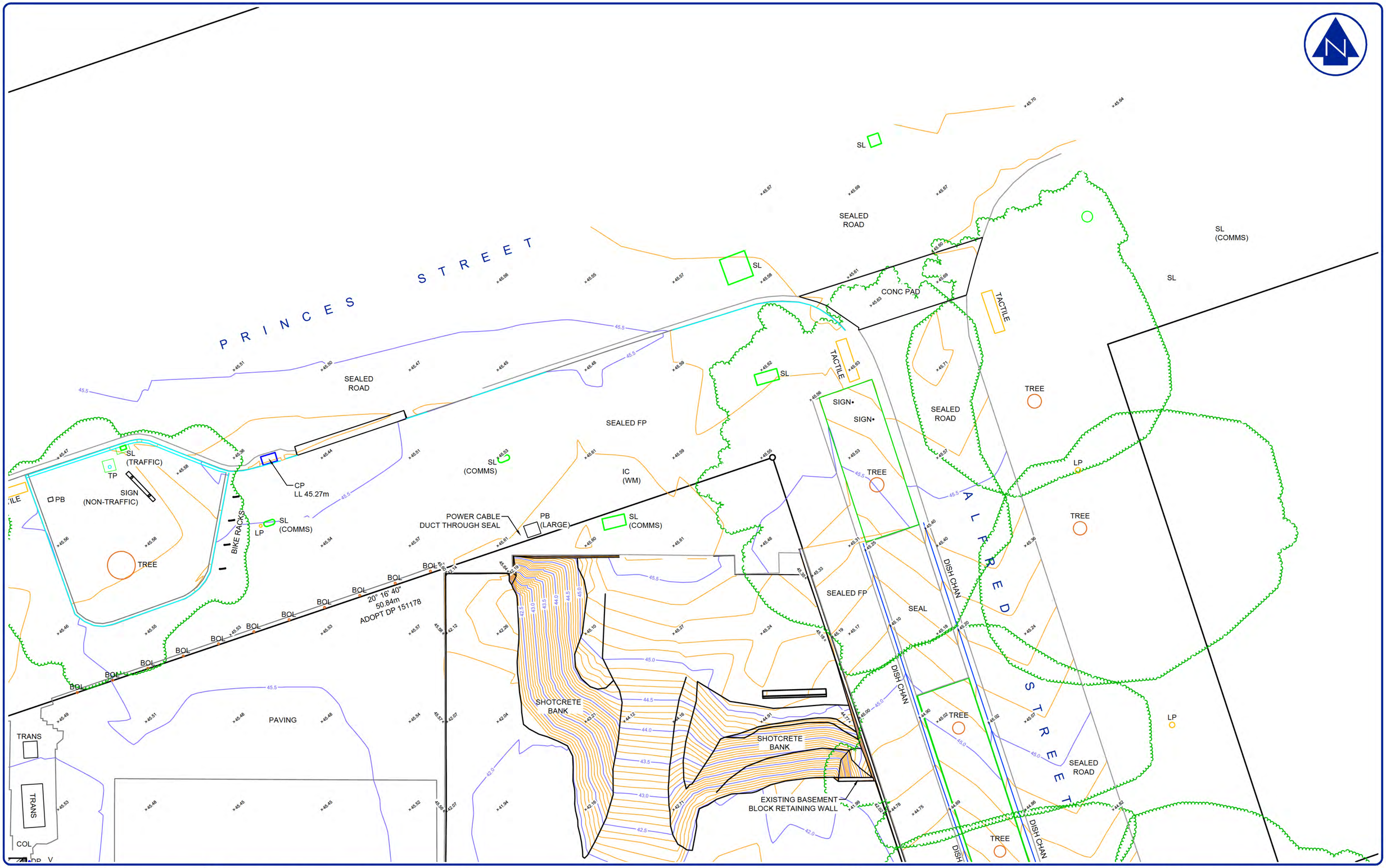

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DRAWN	JAB/JC	0726

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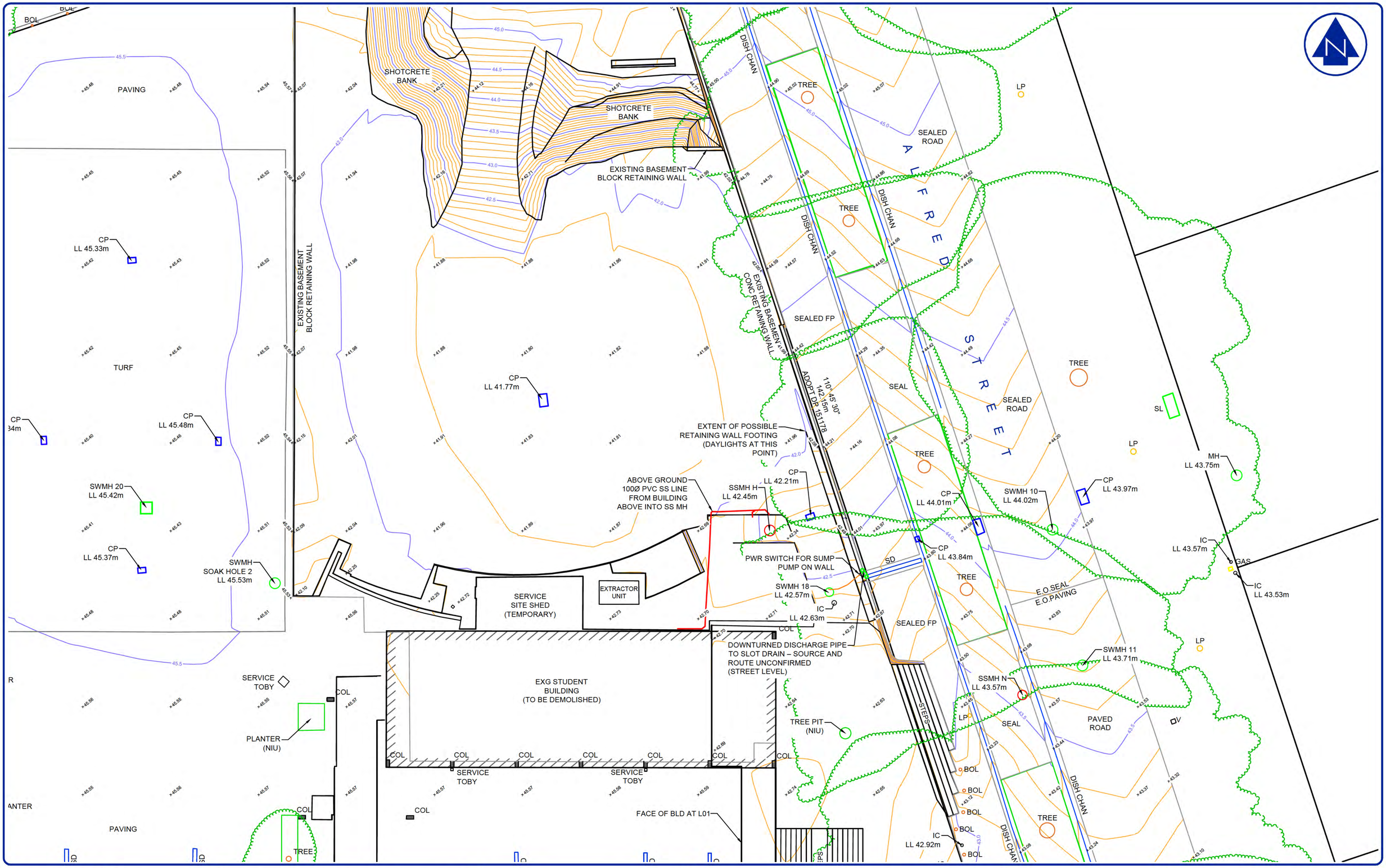

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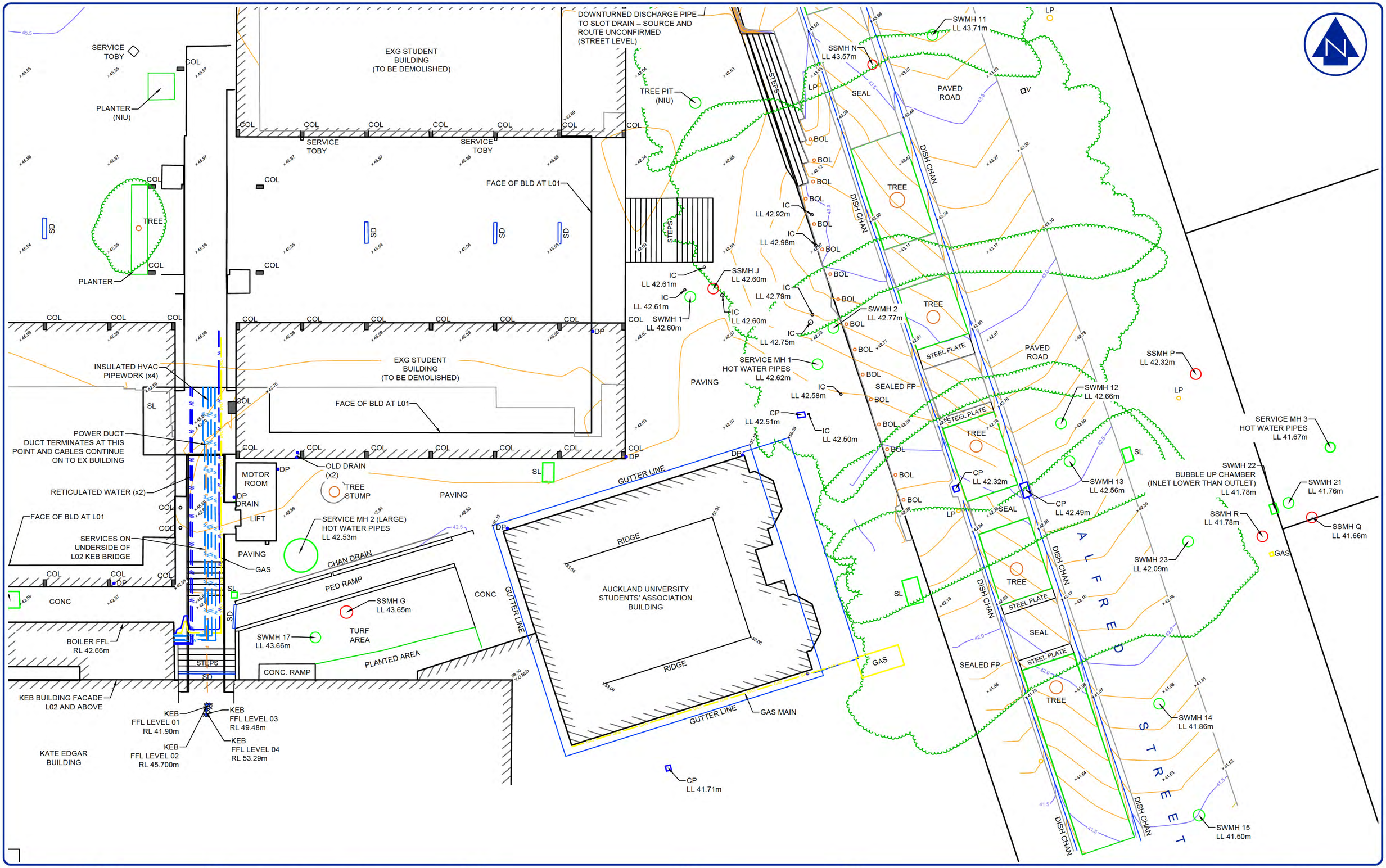

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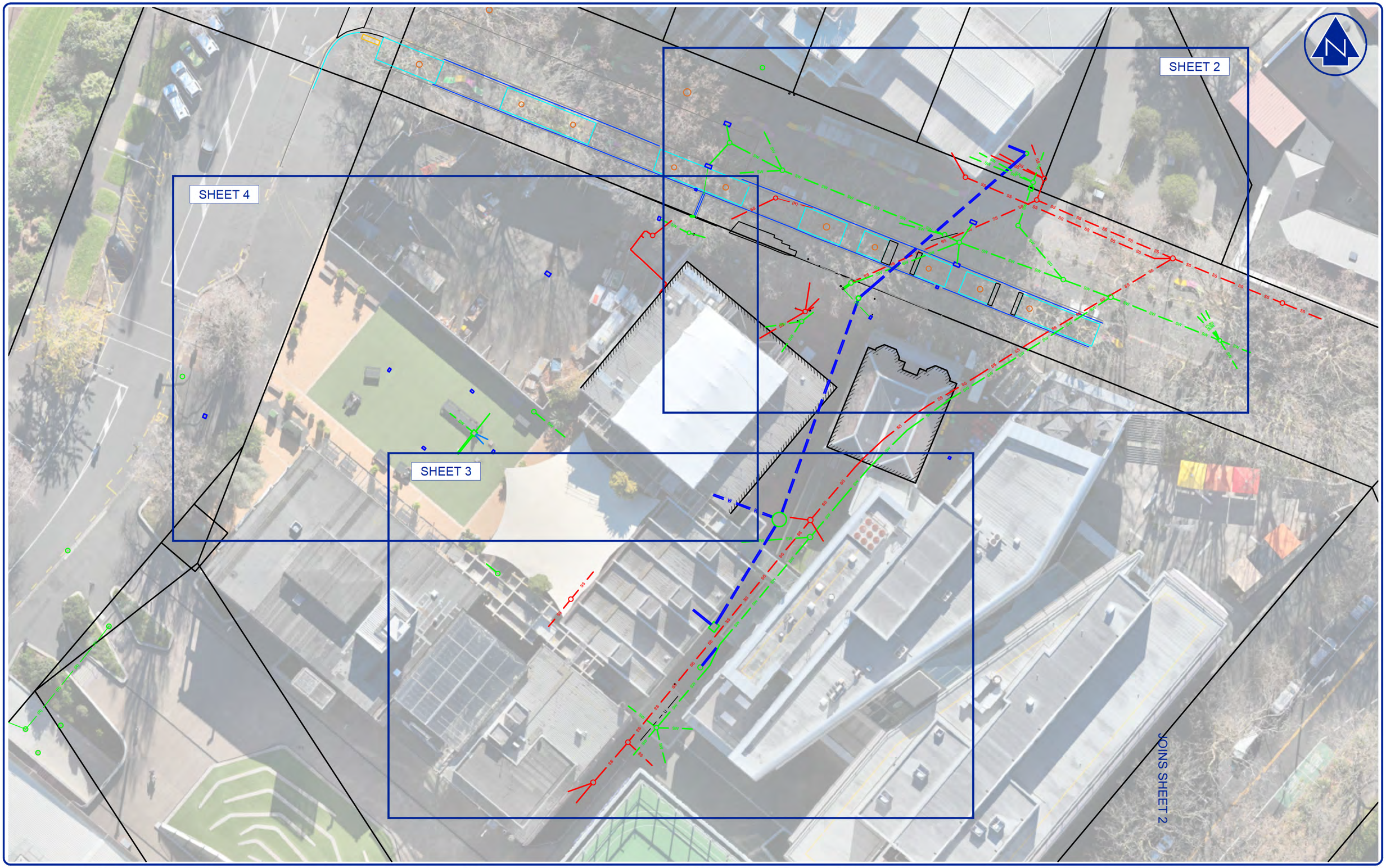

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DRAINAGE INVESTIGATION AS-BUILT

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MH
LL 43.75m

IC
LL 43.57m

IC
LL 43.53m

CP
LL 43.97m
IL N/A

SWMH 10 1050Ø
LL 44.02m

IL 43.20
IL 43.19
IL 43.07
225Ø HDPE
225Ø CONC
IL 41.50
IL 42.67

SWMH 11 1200Ø
LL 43.71m

CP
BLOCKED
LL 44.01m

225Ø CONC
IL 41.48
IL 41.45

CP
BLOCKED
LL 43.84m

UNABLE TO LOCATE MH
LINE APPEARS TO TRAVEL
IN THIS DIRECTION

PIPE
ND

SLOT DRAIN
BLOCKED
LL 43.87m

IL 40.15

SSMH N
CHAMBER FULL WITH WATER AND ROOTS
IL OUT MEASURED BY FEEL
LIMITED VISIBILITY
(WATERCARE TO UNBLOCK)
LL 43.57m

CP
LL 42.21m

ØØ HDPE

SWMH 18 1050Ø
SUMP PUMP
CHAMBER PARTIALLY FILLED
WITH WATER.DIFFICULT TO
ASCERTAIN EXACT DETAILS
LL 42.57m

0.79 C.O.S.
YP/DIA: N/A

IL 40.48 C.O.S.
TYP/DIA: N/A

IC
LL 42.63m
IL 40.85m

STEPS

IC
LL 42.92m

IC
LL 42.98m

100Ø (CAN'T SEE MATERIAL TYPE)

IL 40.21

IC
LL 42.79m

SSMH J 1100SQ
LL 42.60m
OUTLET APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER
UNABLE TO CHASE DIRECTION

IL 40.74
100Ø EW

IL 40.56
IL 40.92
100Ø EW

IC
LL 42.61m

IL 40.43

IC
LL 42.60m

IC
LL 42.75m

IL 40.72

IC
LL 42.61m

150Ø PVC

IL 40.39

IL 40.12
(OUT)APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER

IL 40.28
(OUT)APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER

225Ø CONC

SWMH 1 1100SQ
LL 42.60m
OUTLET APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER
UNABLE TO CHASE DIRECTION

RETICULATED HOT WATER SYSTEM

225Ø CONC

SSMH P 900Ø (C.O.S)
LL 42.32m

IL 39.64
IL 39.62
150Ø EW

ASSUMED WATER PIPE ROUTE
(DASHED LINES)
C.O.S.

SWMH 12 1200Ø
LL 42.66m

IL 39.63
IL 39.64

300Ø CONC
IL 39.60

IL 39.51

SWMH 2 1050Ø
CHAMBER OVER IC'S
DIFFICULT TO DETERMINE
PIPE DIA OR TYPE. DETAILS ESTIMATED
LL 42.77m

IL 39.53
225Ø EW

IL 41.51
225Ø HDPE

225Ø PVC
IL 41.66

SWMH 13 1050Ø
LL 42.56m

IL 39.44

CP
LL 42.49m

UNK PIPE
THROUGH CHAMBER
T.O.PIPE RL 40.20m

IL 40.19
225Ø EW
IL 40.02
225Ø EW

T.O.PIPES
RL 41.97m

IL 40.05

SERVICE MH 1
HOT WATER PIPES
LL 42.62m

IC
LL 42.58m

T.O.PIPES
RL 41.97m

CP
LL 42.32m

IC
LL 42.50m

CP
LL 42.51m

JOINS SHEET 2

T.O.PIPES
RL 41.21

SERVICE MH 3
HOT WATER PIPES
LL 41.67m

T.O.PIPES
RL 40.12m

100Ø EW
IL 39.16
450Ø CONC

150Ø EW
150Ø EW
150Ø EW
150Ø EW

IL 39.12
IL 39.15
IL 40.52

SWMH 21 1050 SQ
OUTLET APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER
UNABLE TO CHASE DIRECTION
LL 41.76m

SSMH Q 1050 SQ
LL 41.66m
OUTLET APPEARS TO HEAD
STRAIGHT DOWN OUT OF CHAMBER
UNABLE TO CHASE DIRECTION
IL OUT 39.06m

IL 39.12 (SUMP)
IL 38.58
IL 39.08

IL 38.46

SWMH 22 400 SQ
BUBBLE UP CHAMBER
(INLET LOWER THAN OUTLET)
LL 41.78m

IL 38.38

CCTV REQ. TO CONFIRM
THIS CONNECTION LINE

IL 39.48
IL 38.41
225Ø EW

SSMH R 1050Ø
LL 41.78m

450Ø CONC
IL 38.95

SWMH 23 1200Ø
LL 42.09m

IL 38.89

450Ø CONC

IL 38.82
IL 38.79

SWMH 14 1200Ø
LL 41.86m

IL 38.76
600Ø CONC
IL 38.39

SWMH 15 1200Ø
LL 41.50m

IL 38.34
IL 38.89

355Ø HDPE

225Ø EW
IL 37.88
150Ø EW
IL 37.92

SSMH A 1650Ø
LL 40.91m

INTO CHAMBER
IL 38.62

IL 37.96
(AT B.O.DROPPER)

225Ø EW

355Ø HDPE

300Ø CONC

600Ø CONC

300 EW
IL 37.97
150Ø HDPE
250Ø HDPE
IL 39.72
IL 39.45
IL 37.22
IL 37.18
600Ø CONC

SWMH 16 1200Ø
LL 40.67m

IL 40.01
225Ø HDPE

BOUNDARY

JOINS SHEET 2

SURVEYED	JAB/AB/DS	07/26	
CALC			
DRAWN	JAB	07/26	

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(8) PLEASE ENSURE CONTRACTORS VERIFY ALL LOCATIONS OF EXISTING SERVICES BEFORE ANY WORKS BEGIN

BNWALKER
PROJECT & CONSTRUCTION SURVEYORS

CLIENT
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PROJECT
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TITLE
TOPOGRAPHICAL AS-BUILT SURVEY

DRAINAGE INVESTIGATION AS-BUILT

SCALE 1:100 (A1) 1:200 (A3)

DRAWING No	SHEET	REVISION
7119-600-01	1 of 4	2

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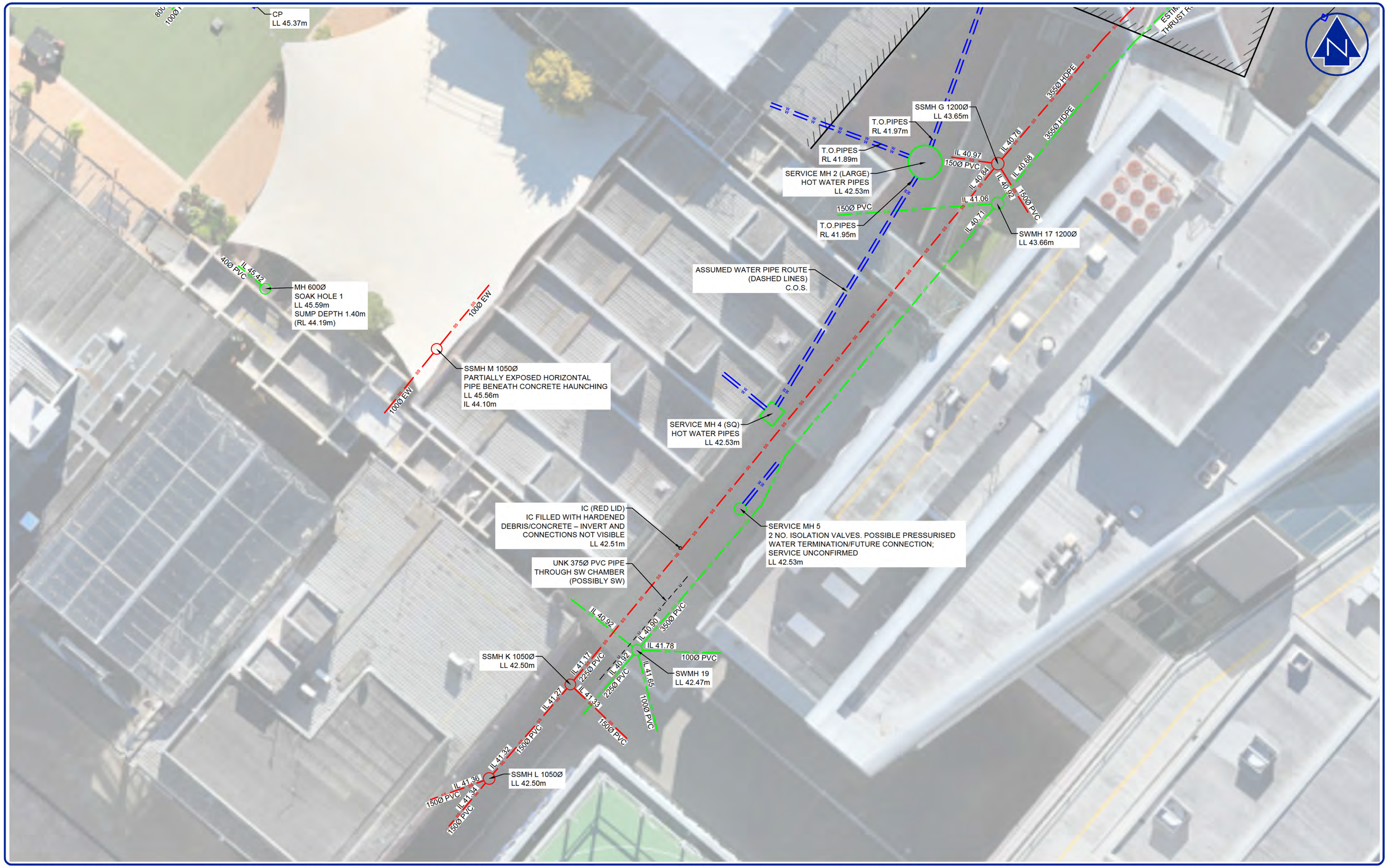

SURVEYED	JAB/AB/DS	07/26	
CALC			
DRAWN	JAB	07/26	

APPROVED DATE

REVISION	CHANGES	CHECKED	DATE
0	ORIGINAL ISSUE	SB	30/07/26
1	DRAINAGE & SERVICE INFORMATION UPDATED	SB	27/08/26
2	DRAINAGE & SERVICE INFORMATION UPDATED	JC	25/09/26

(1) COORDINATES AND BEARINGS ARE IN TERMS OF THE NEW ZEALAND GEODETIC 2000 DATUM BASED ON THE NEW ZEALAND TRANSVERSE MERCATOR PROJECTION. THIS DATUM HAS A SCALE FACTOR AT THE CENTRAL MERIDIAN OF 0.9996. THIS TRANSVERSE MERCATOR PROJECTION HAS A FALSE VALUE OF 10000000mN, 1600000mE.

(2) THE ORIGIN OF COORDINATES FOR THIS PROJECT IS SS 196 SO 50687 LINZ CODE CJNF 5920116.602mN 1757634.675mE.

(3) LEVELS/HEIGHTS ARE IN TERMS OF THE LINZ DATUM "NEW ZEALAND VERTICAL DATUM 2016 (NZVD16)".

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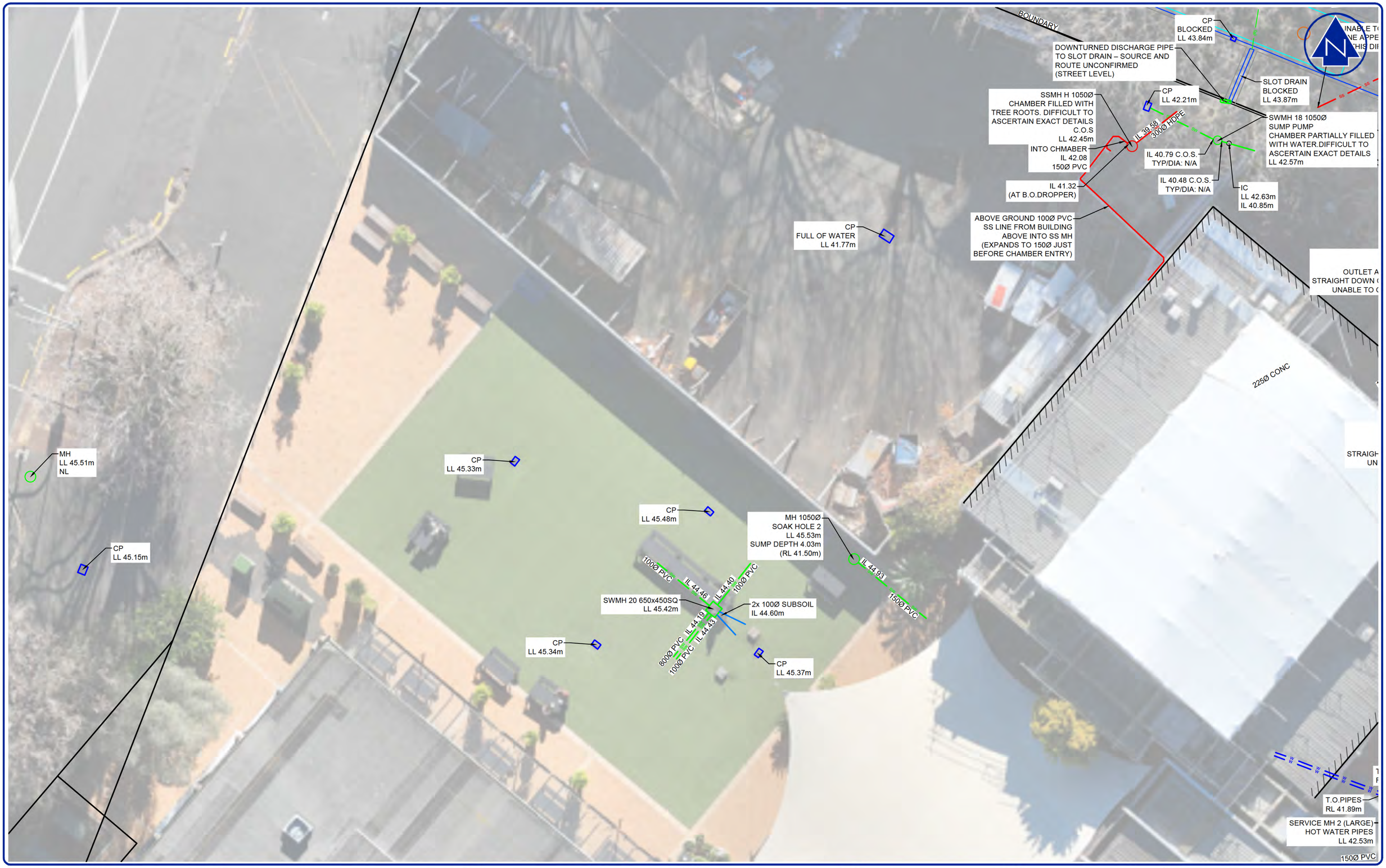

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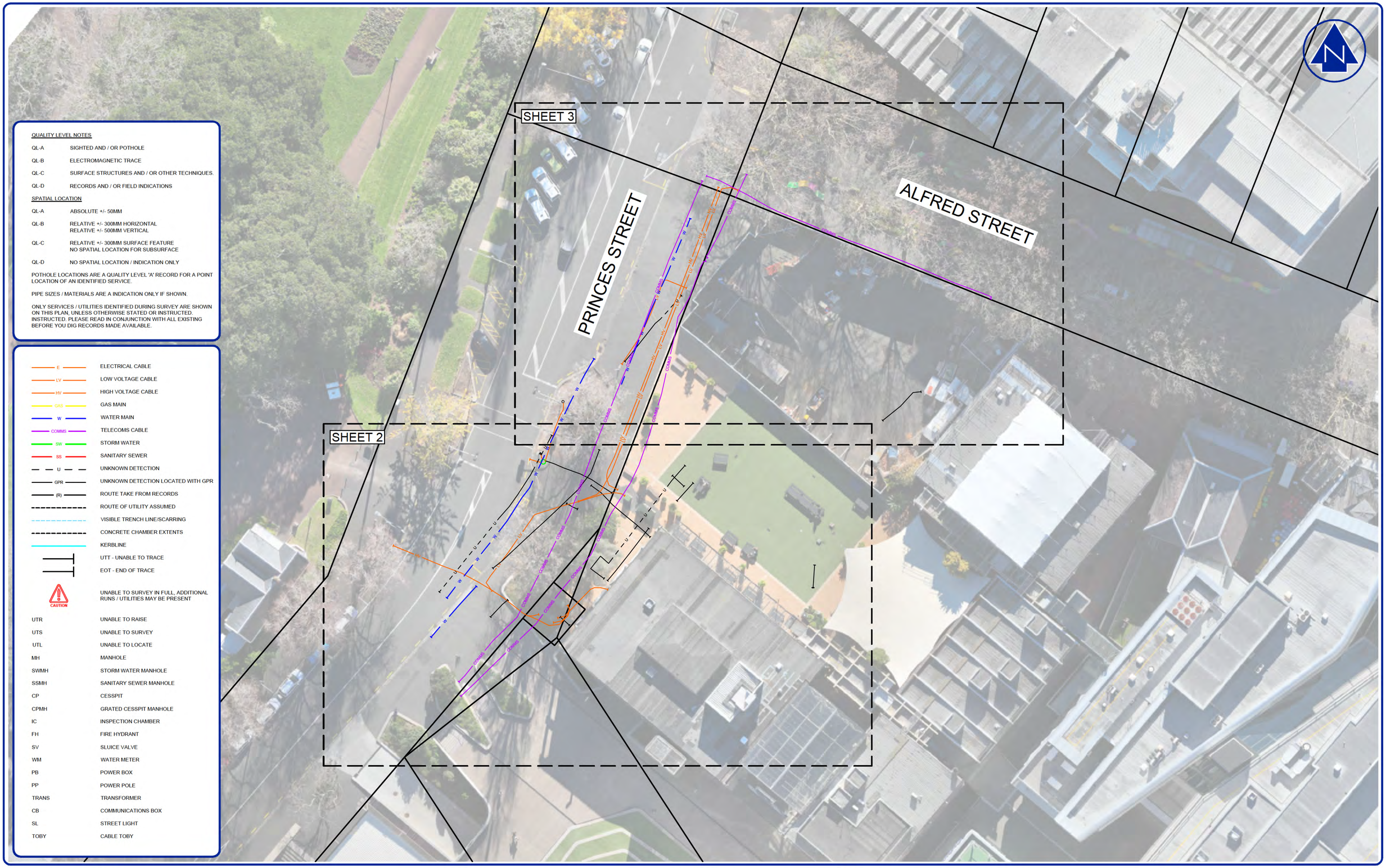

QUALITY LEVEL NOTES

QL-A	SIGHTED AND / OR POTHOLE
QL-B	ELECTROMAGNETIC TRACE
QL-C	SURFACE STRUCTURES AND / OR OTHER TECHNIQUES.
QL-D	RECORDS AND / OR FIELD INDICATIONS

SPATIAL LOCATION

QL-A	ABSOLUTE +/- 50MM
QL-B	RELATIVE +/- 300MM HORIZONTAL RELATIVE +/- 500MM VERTICAL
QL-C	RELATIVE +/- 300MM SURFACE FEATURE NO SPATIAL LOCATION FOR SUBSURFACE
QL-D	NO SPATIAL LOCATION / INDICATION ONLY

POTHOLE LOCATIONS ARE A QUALITY LEVEL 'A' RECORD FOR A POINT LOCATION OF AN IDENTIFIED SERVICE.

PIPE SIZES / MATERIALS ARE A INDICATION ONLY IF SHOWN.

ONLY SERVICES / UTILITIES IDENTIFIED DURING SURVEY ARE SHOWN ON THIS PLAN, UNLESS OTHERWISE STATED OR INSTRUCTED. INSTRUCTED. PLEASE READ IN CONJUNCTION WITH ALL EXISTING BEFORE YOU DIG RECORDS MADE AVAILABLE.

E	ELECTRICAL CABLE
LV	LOW VOLTAGE CABLE
HV	HIGH VOLTAGE CABLE
GAS	GAS MAIN
W	WATER MAIN
COMMS	TELECOMS CABLE
SW	STORM WATER
SS	SANITARY SEWER
U	UNKNOWN DETECTION
GPR	UNKNOWN DETECTION LOCATED WITH GPR
(R)	ROUTE TAKE FROM RECORDS
	ROUTE OF UTILITY ASSUMED
	VISIBLE TRENCH LINE/SCARRING
	CONCRETE CHAMBER EXTENTS
	KERBLINE
	UTT - UNABLE TO TRACE
	EOT - END OF TRACE
CAUTION	UNABLE TO SURVEY IN FULL, ADDITIONAL RUNS / UTILITIES MAY BE PRESENT

UTR	UNABLE TO RAISE
UTS	UNABLE TO SURVEY
UTL	UNABLE TO LOCATE
MH	MANHOLE
SWMH	STORM WATER MANHOLE
SSMH	SANITARY SEWER MANHOLE
CP	CESSPIT
CPMH	GRATED CESSPIT MANHOLE
IC	INSPECTION CHAMBER
FH	FIRE HYDRANT
SV	SLUICE VALVE
WM	WATER METER
PB	POWER BOX
PP	POWER POLE
TRANS	TRANSFORMER
CB	COMMUNICATIONS BOX
SL	STREET LIGHT
TOBY	CABLE TOBY

SURVEYED	JAB	09/26
CALC		
DRAWN	JC	09/26

APPROVED DATE

REVISION	CHANGES	CHECKED	DATE
0	ORIGINAL ISSUE	SB	22/09/26

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Waipapa Taumata Rau University of Auckland

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STUDENT CENTRE AND LIBRARY

TITLE
TOPOGRAPHICAL AS-BUILT SURVEY

SERVICE INVESTIGATION AS-BUILT

SCALE 1:250 (A1) 1:500 (A3)

DRAWING No	SHEET	REVISION
7119-600-02	1 of 3	0

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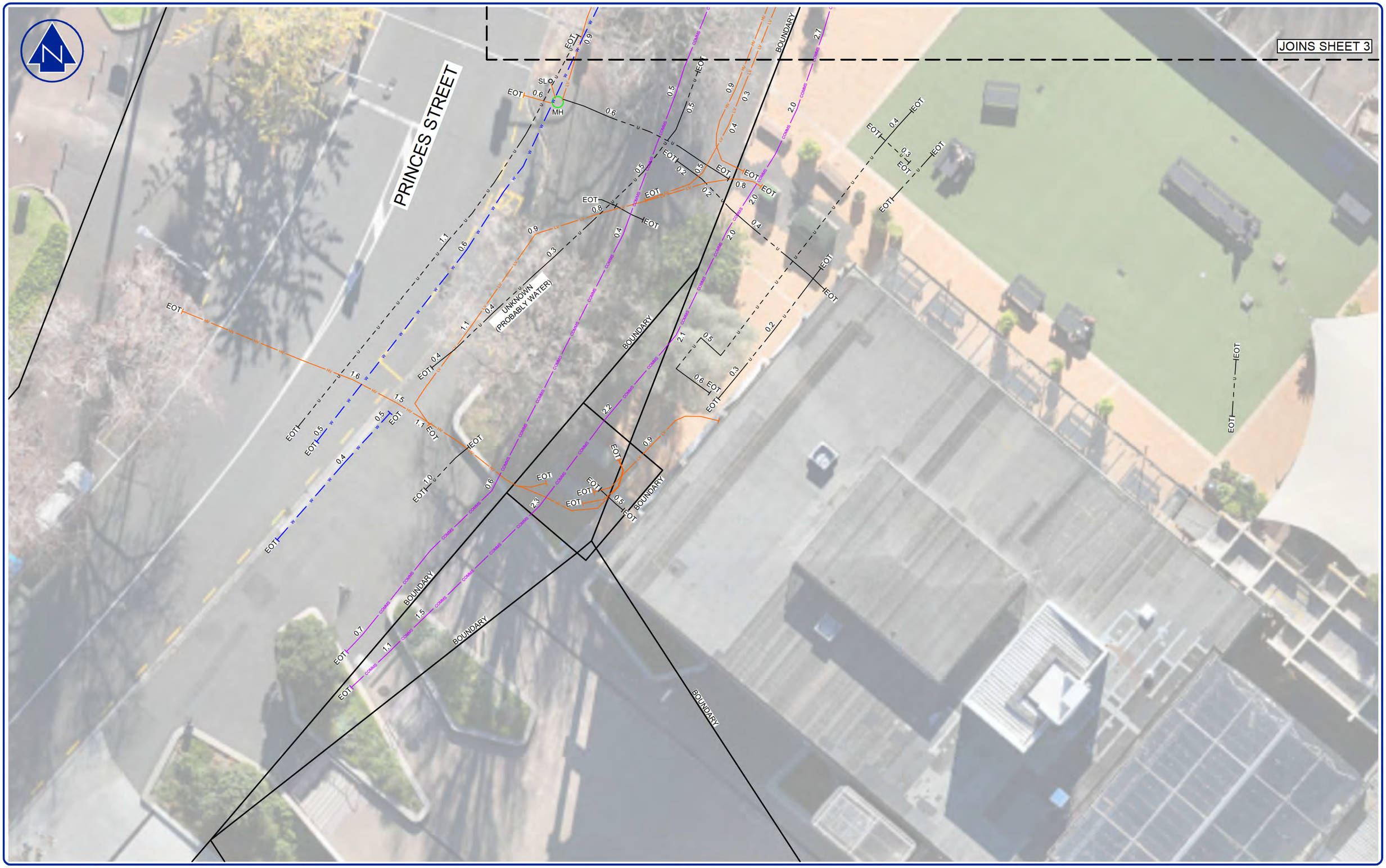

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CALC					
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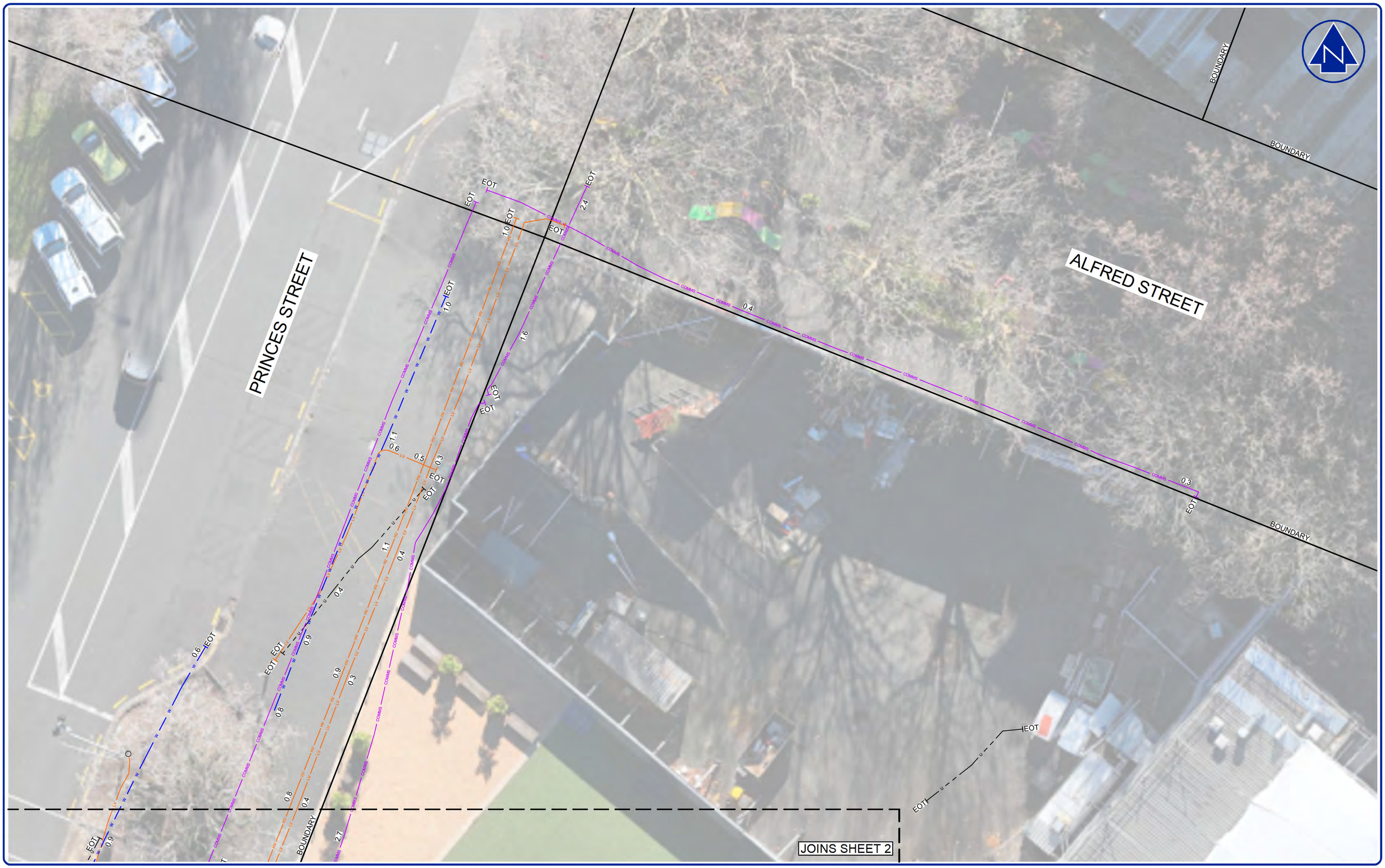

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Areas and measurements are subject to survey.

- C — Communication
- LV — Power - Low Voltage
- HV — Power - High Voltage
- Power - Conduit
- Earthing
- G — Gas
- WW — Wastewater
- SW — Stormwater
- W — Water
- Fire Water
- UNK — Unknown
- Structure

Sheet ASB-03
Sheet ASB-02
Sheet ASB-05
Sheet ASB-04
ALFRED STREET
PRINCES STREET
SYMONDS STREET
WELLESLEY STREET EAST
Section 1
SO 374931
Section 1
SO 44422
Lot 1
DP 151178
Lot 2
DP 151178
Lot 1
DP 151179
Part Allot SW34
Sec 34
Auckland CITY
N
0 2 4 6 8 10cm

SW & SS added on Princes St.	DR	07/09/20
Revision (Descriptions)	Name	Date

	Name	Date
Surveyed	DR	08/20
Designed		
Drawn	DR	24/08/20
Checked		
Approved		

INDUSTRY SURVEYS
PO BOX 66158
Beach Haven
P.C. 0749
phone [redacted]
Email [redacted]

Client
Underground Service Locators

Drawing Title
Services Location Plan
Auckland University

Original Scale 1:750	Original Size A2	Revision No R1
Date 24/08/2020	Cad Reference 0188-ASB-01	Sheet No ASB-01
Directory -		Job No 0188

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Services Location Plan
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0 2 4 6 8 10cm

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Services Location Plan
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Original Scale 1:250	Original Size A2	Revision No R1
Date 24/08/2020	Cad Reference 0188-ASB-03	Sheet No ASB-03
Directory -		Job No 0188

ALFRED STREET
PRINCES STREET
Section 1
SO 374931
Lot 1
DP 151178
Comm MH
Water Valve
Comm Box
Comm Pit
Comm Box
Elec Pillar
WiFi
Elec Pillar
Elec MH
Cesspit
LL: 45.46
Earth Grid
Cesspit
LL: 45.42
0 2 4 6 8 10cm



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0 2 4 6 8 10cm

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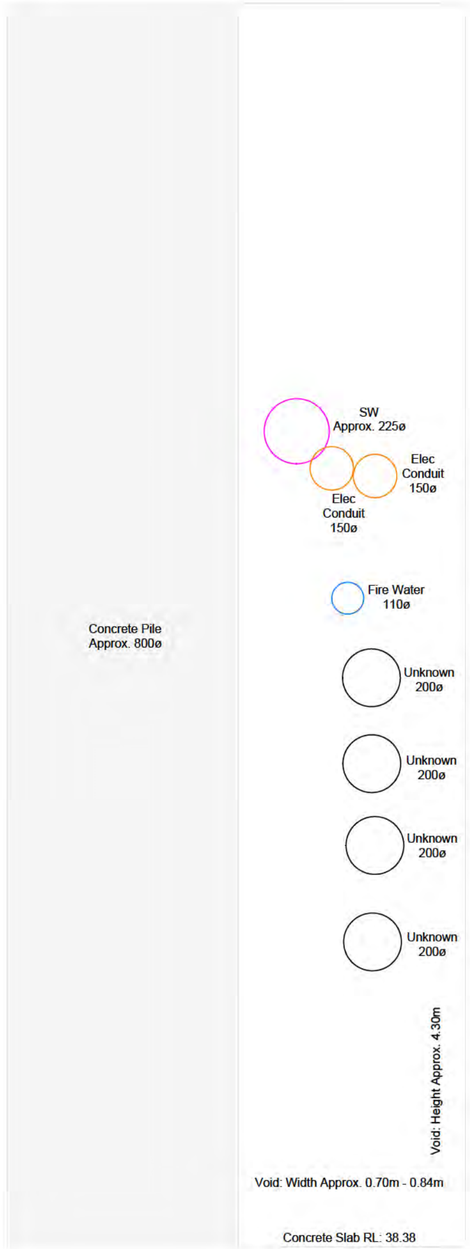
- Structure

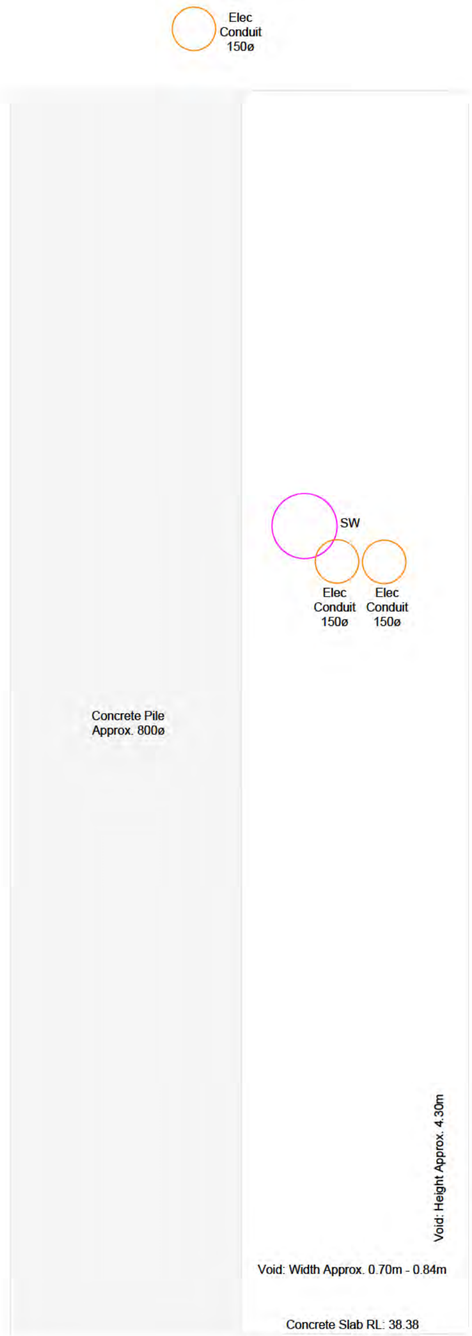
Cross Section 1

Hor. Scale: 1:15
Ver. Scale: 1:15



Cross Section 2

Hor. Scale: 1:15
Ver. Scale: 1:15





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Original Scale 1:15	Original Size A2	Revision No R1
Date 24/08/2020	Cad Reference 0188-ASB-06	Sheet No ASB-06
Directory -		Job No 0188