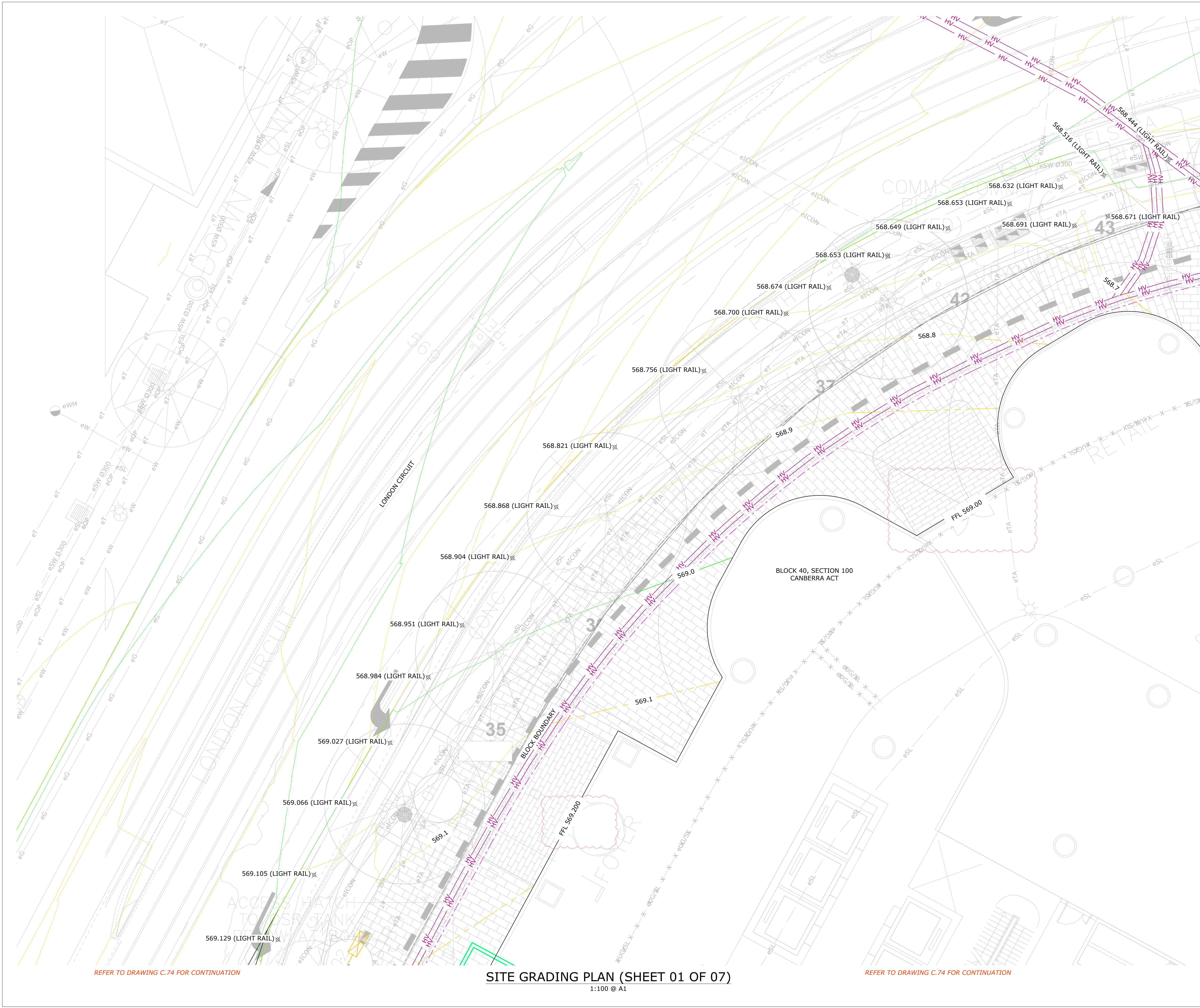




REFER TO DRAWING C.74 FOR CONTINUATION

SITE GRADING PLAN (SHEET 01 OF 07)
1:100 @ A1

REFER TO DRAWING C.74 FOR CONTINUATION

DISCIPLINE:

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REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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KEY PLAN

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MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006
Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
Fax 02 6299 2316 Web vdsol.com.au ACN 151 340 788

ARCHITECT

CLIENT

PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 01 OF 07)

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.71

DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

SCALE

1:100

SIZE

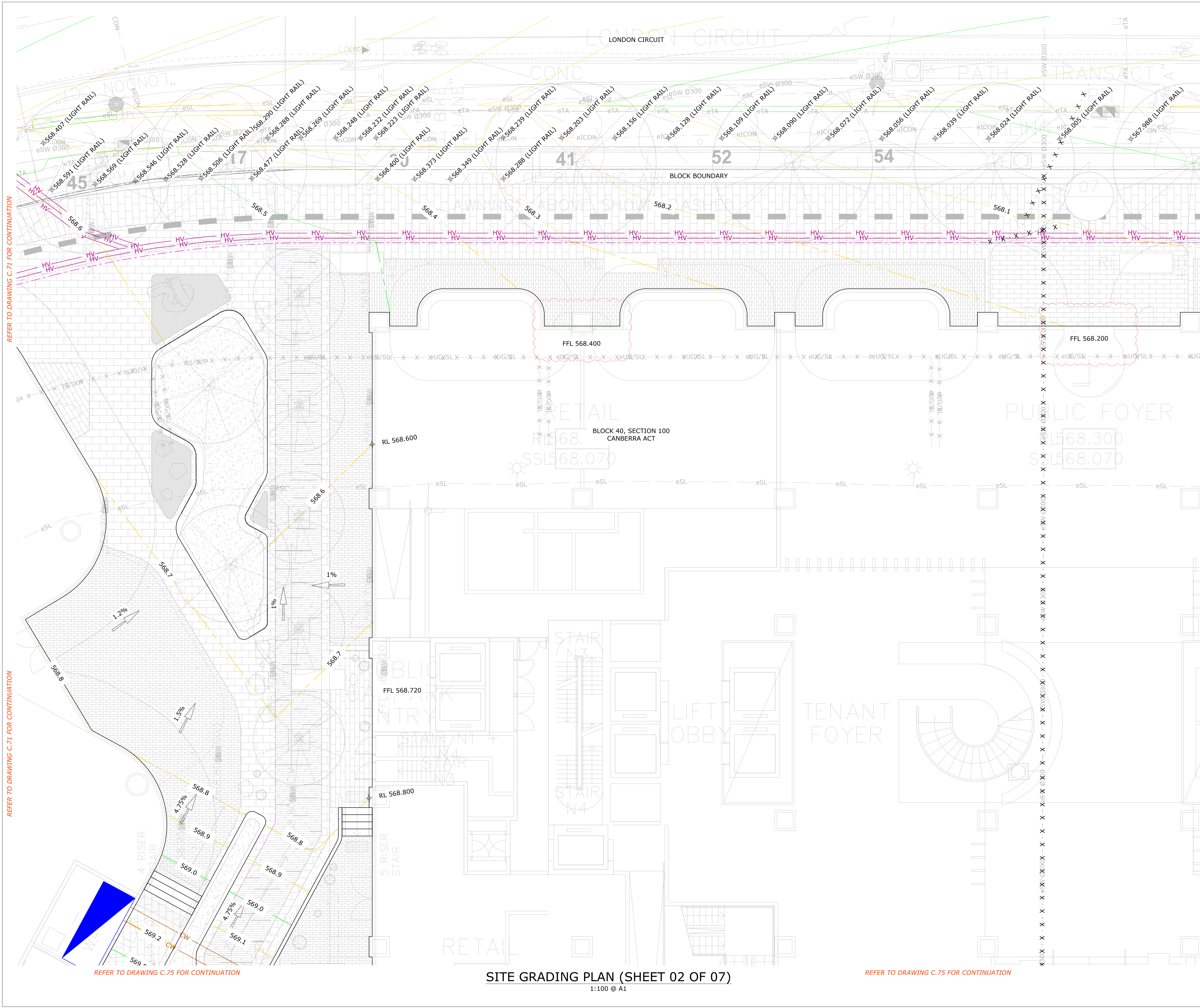
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ISSUE

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REVISION

7



REFER TO DRAWING C.71 FOR CONTINUATION

REFER TO DRAWING C.71 FOR CONTINUATION

REFER TO DRAWING C.75 FOR CONTINUATION

SITE GRADING PLAN (SHEET 02 OF 07)
1:100 @ A1

REFER TO DRAWING C.75 FOR CONTINUATION

DISCIPLINE:
CIVIL SERVICES

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1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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KEY PLAN

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ARCHITECT
JPW

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PROJECT
**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE
**SITE GRADING
PLAN
(SHEET 02 OF 07)**

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JOB REFERENCE
VS24086

DRAWING NUMBER
C.72

DESIGNED S.GWYNNE

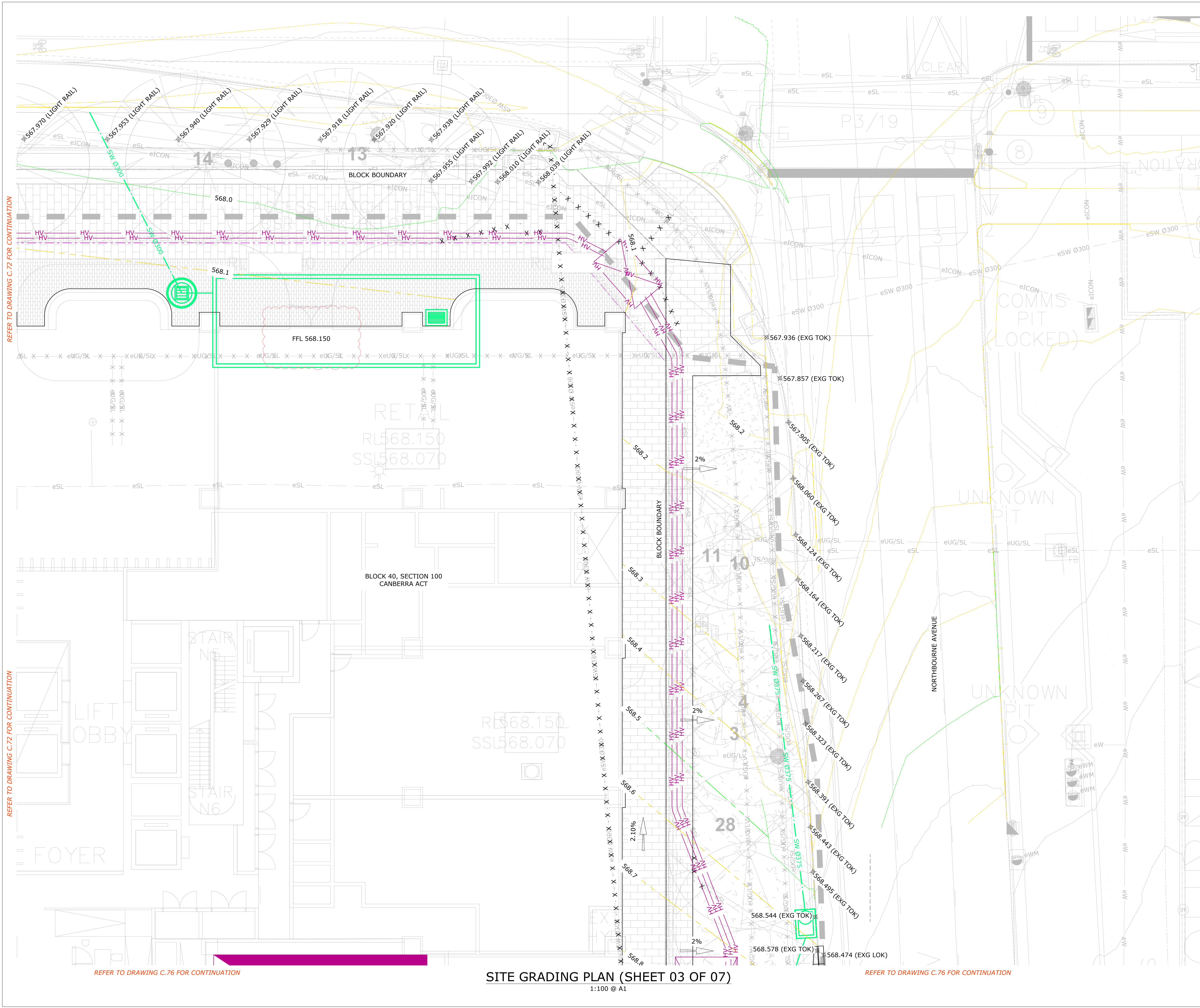
DRAFTED Z.LIU

SCALE

SCALE 1:100 SIZE A1

ISSUE
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REVISION
7



DISCIPLINE:

CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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KEY PLAN

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ARCHITECT

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 03 OF 07)

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DRAWING NUMBER

C.73

DESIGNED

S.G. GWYNNE

DRAFTED

Z.LIU

SCALE

0 1.0 2.0 3.0m

SCALE

1:100

SIZE

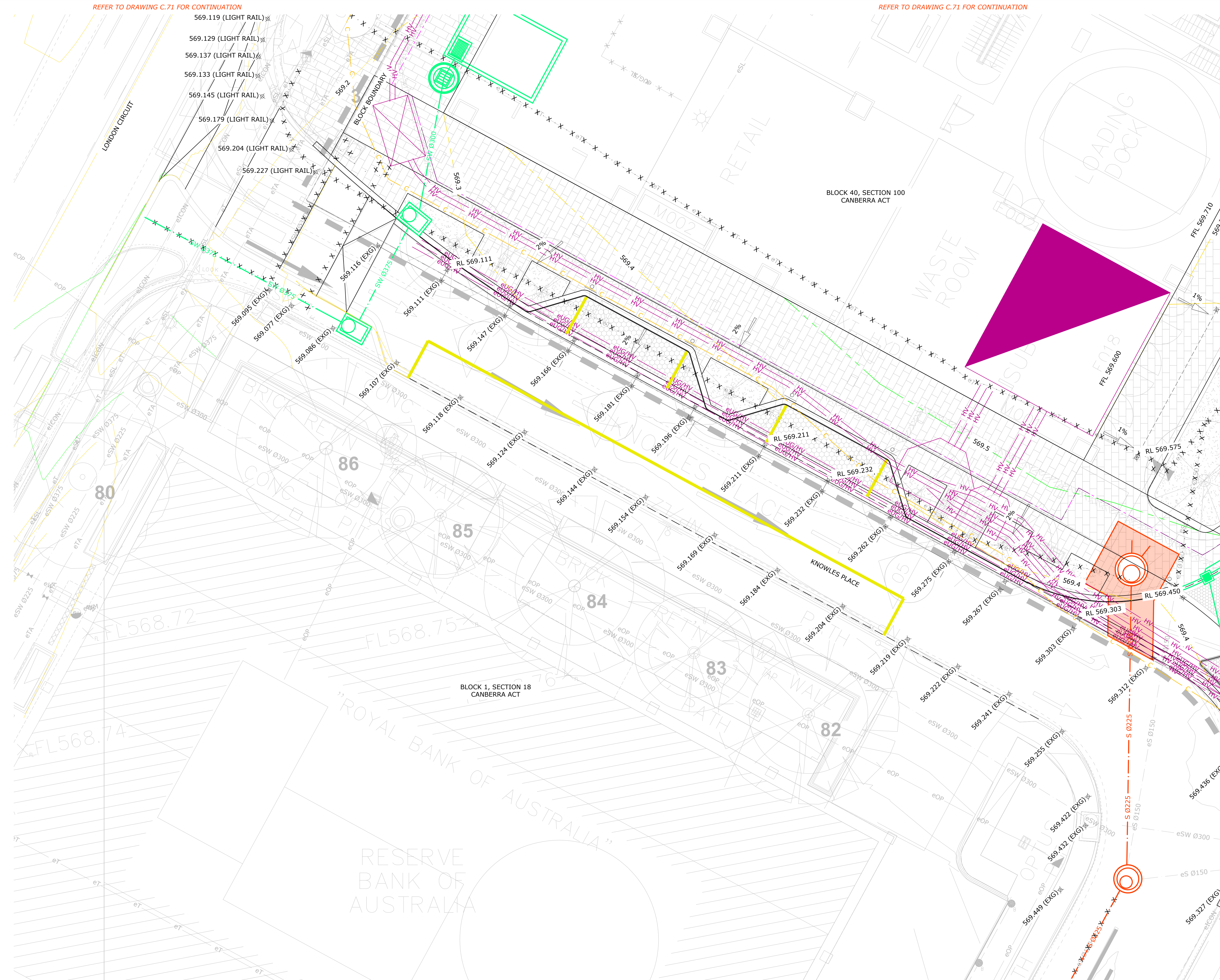
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ISSUE

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REVISION

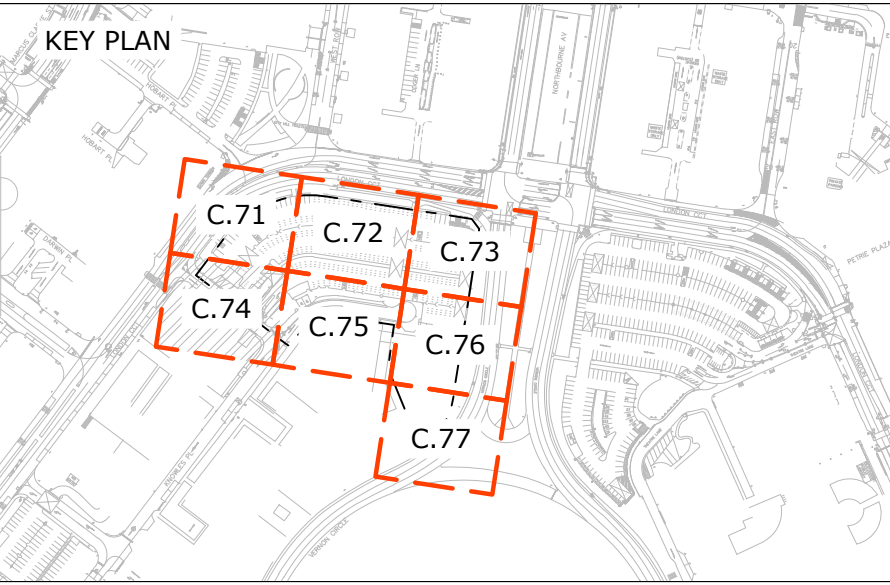
7



DISCIPLINE: CIVIL SERVICES				
REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 04 OF 07)

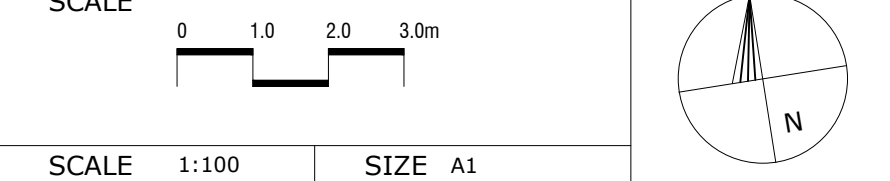
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VS24086

DRAWING NUMBER
C.74

DESIGNED S.GWYNNE
DRAFTED Z.LIU



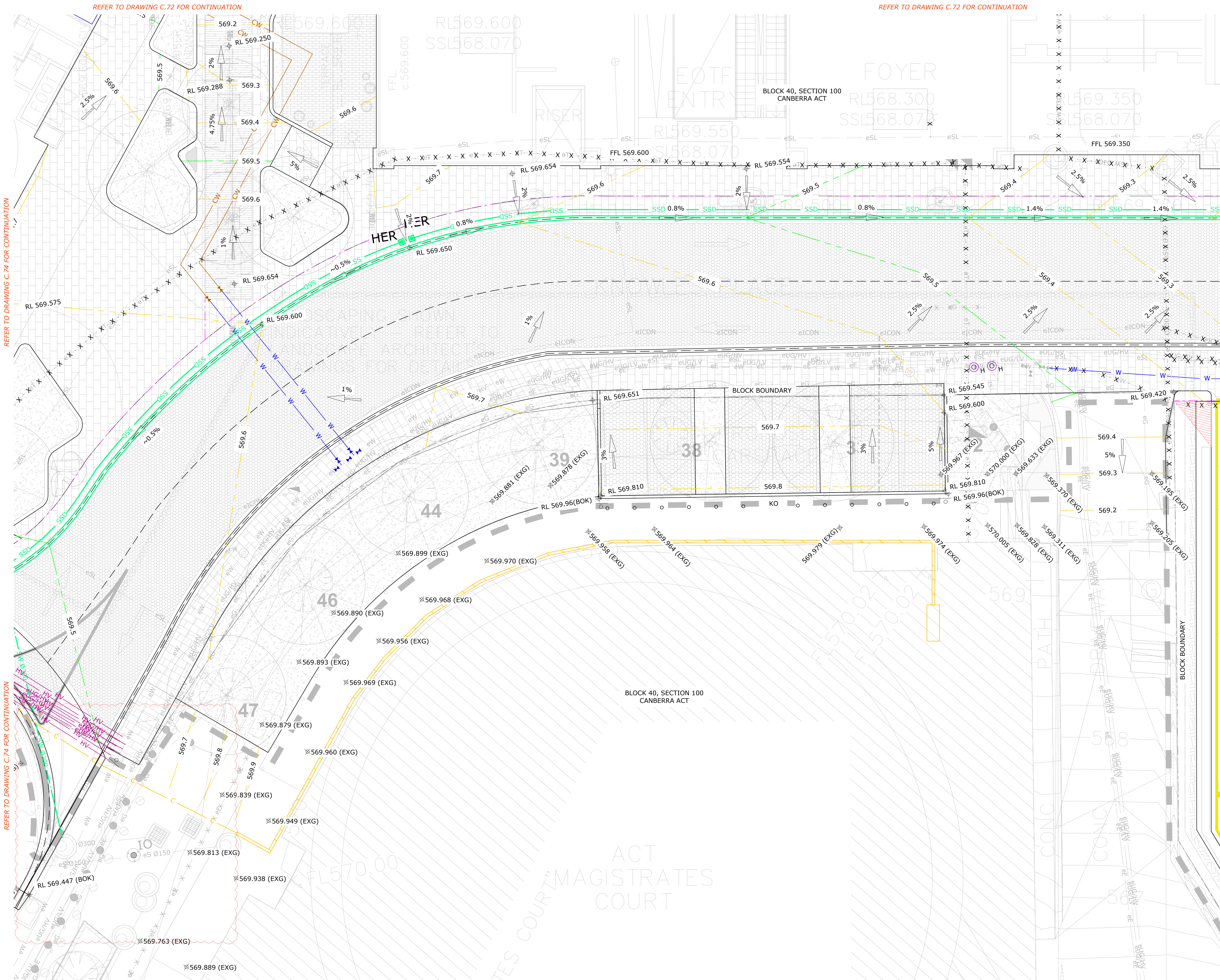
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ISSUE

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REVISION
7

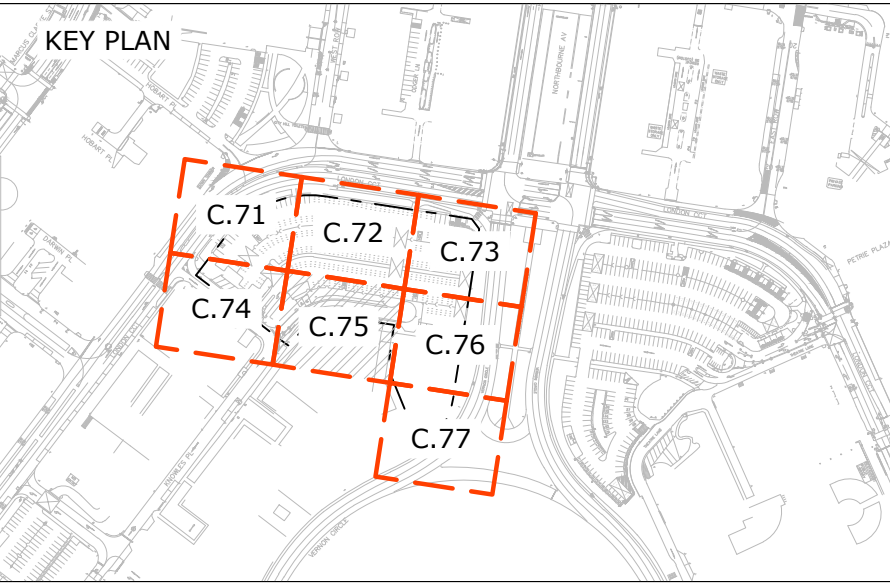
SITE GRADING PLAN (SHEET 04 OF 07)
1:100 @ A1



DISCIPLINE: CIVIL SERVICES				
REV	ISSUE	CHK'D	APP'D	DATE
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2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 05 OF 07)

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DRAWING NUMBER C.75

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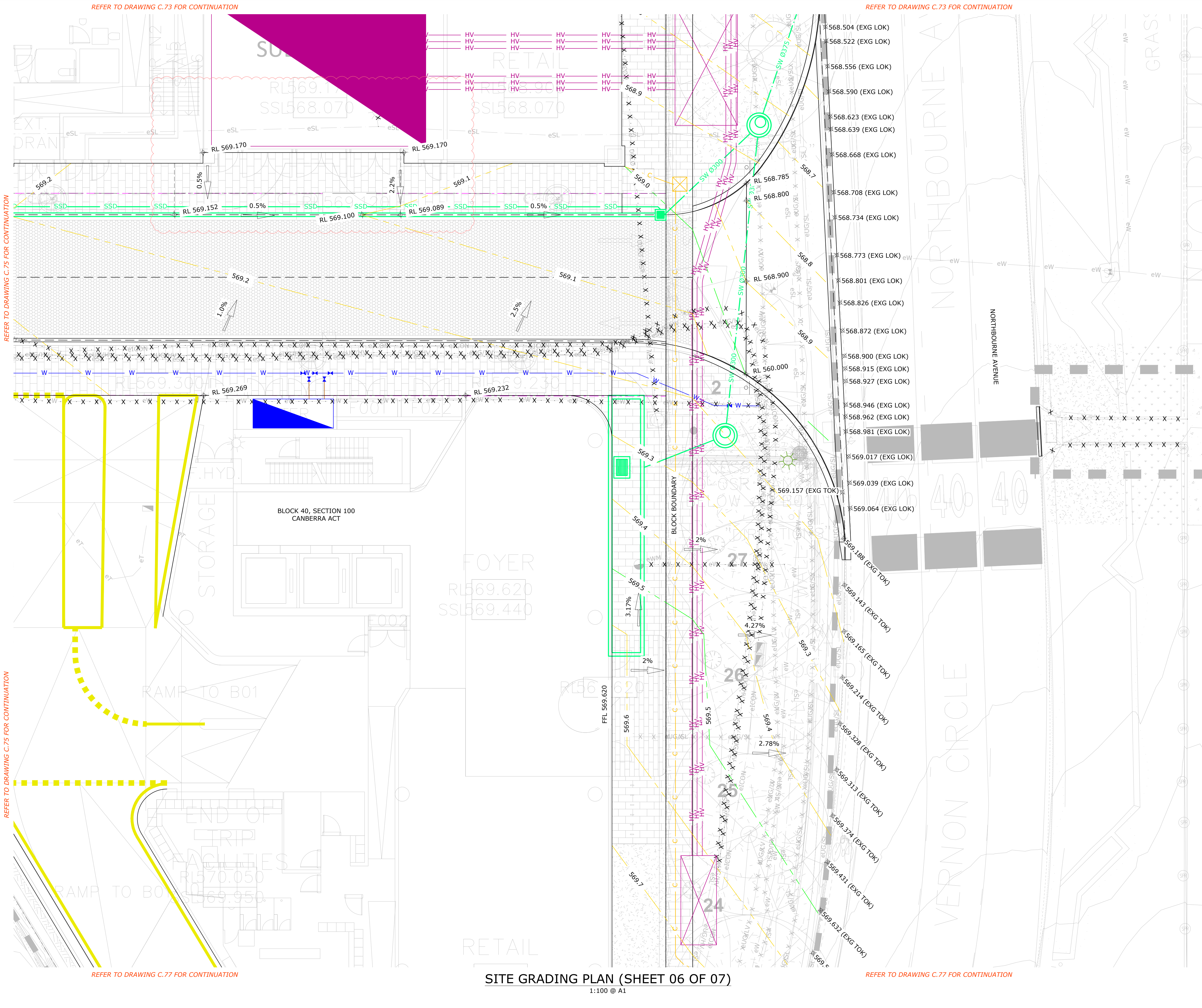
DRAFTED Z.LIU

SCALE 1:100

SIZE A1

ISSUE NOT FOR CONSTRUCTION

REVISION 7



DISCIPLINE:

CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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KEY PLAN

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 06 OF 07)

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DRAWING NUMBER

C.76

DESIGNED

S.GWYNNE

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SCALE

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SCALE

1:100

SIZE

A1

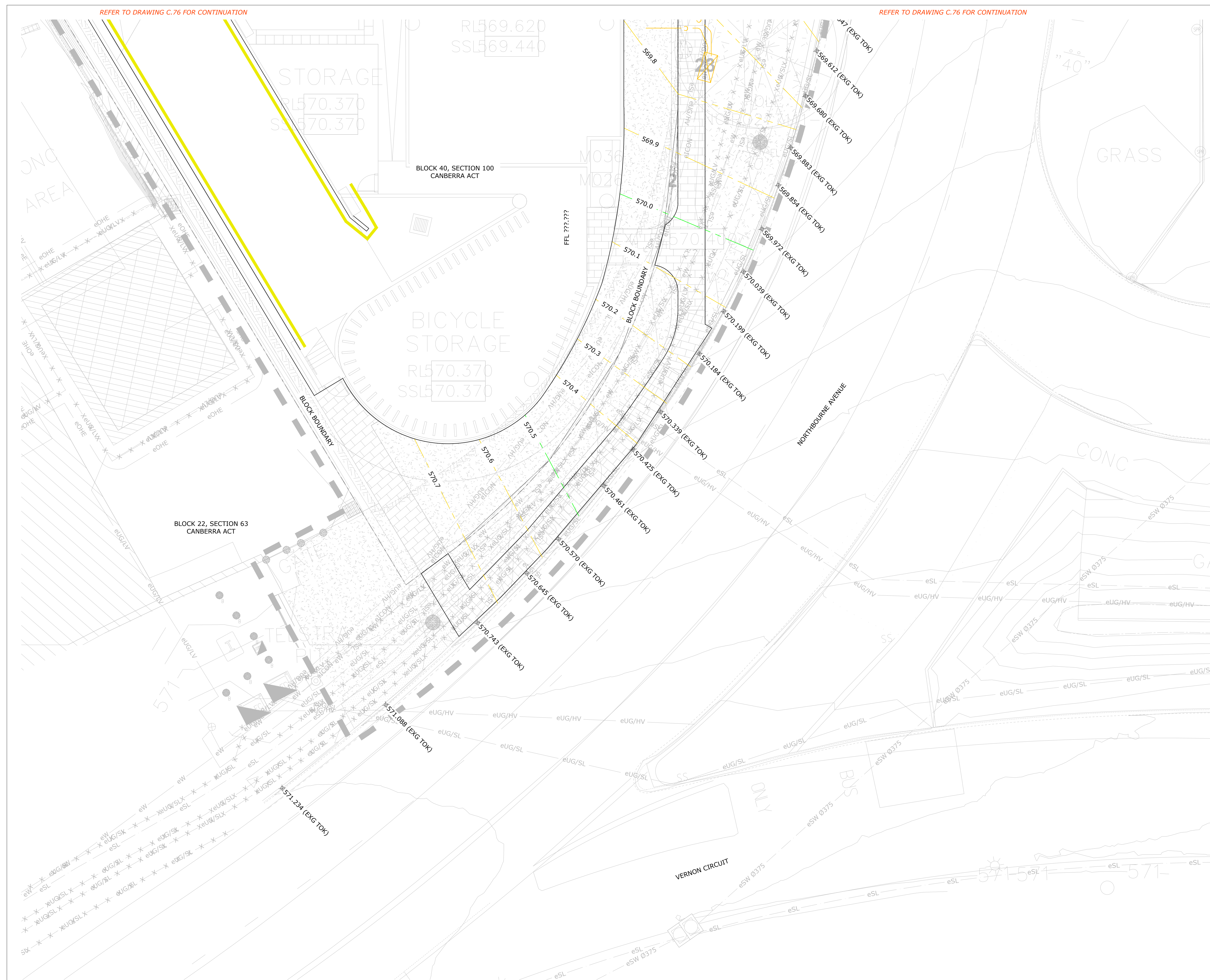
ISSUE

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7

SITE GRADING PLAN (SHEET 06 OF 07)
1:100 @ A1



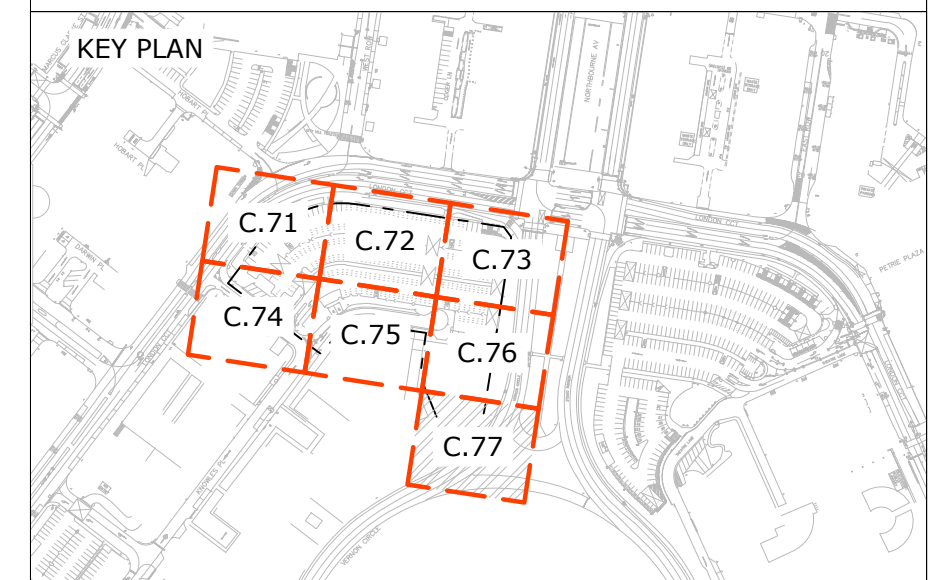
SITE GRADING PLAN (SHEET 07 OF 07)

1:100 @ A1

DISCIPLINE:				
CIVIL SERVICES				
REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	30/01/25
2	PRELIMINARY	Z.L.	S.G.	31/01/25
3	PRELIMINARY	Z.L.	S.G.	11/02/25
4	PRELIMINARY	Z.L.	S.G.	18/02/25
5	PRELIMINARY	Z.L.	S.G.	25/02/25
6	PRELIMINARY	Z.L.	S.G.	26/03/25
7	PRELIMINARY	Z.L.	S.G.	02/04/25

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BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE GRADING
PLAN
(SHEET 07 OF 07)

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10B REFERENCE

DRAWING NUMBER

SUB REFERENCE
UGB 1006

C 77

VS24086

C.77

DESIGNED	S.GWYNNE
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DRAFTED 7.1 IV

SCALE



100



SCALE	1:100	SIZ
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1	
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ISSUE	
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	REVISION
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7

THE LOCATION OF EXISTING SERVICES SHOWN ARE ESTIMATES ONLY. THESE ESTIMATES HAVE BEEN DEVELOPED FROM INFORMATION PROVIDED BY SERVICING AUTHORITIES AND PREVIOUS DOCUMENTATION ASSOCIATED WITH THE DEVELOPMENT. THE LOCATIONS SHOWN ON THIS DRAWING ARE NOT TO BE RELIED UPON FOR CONSTRUCTION WORKS. INFORMATION SHOWN IS TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.

UNLESS SHOWN OTHERWISE ON PLAN.

3. SERVICES IN CLOSE PROXIMITY TO EXCAVATION TO BE POTHOLED AND IDENTIFIED PRIOR TO EXCAVATION. RL'S OF ALL IN GROUND SERVICES TO BE SURVEYED PRIOR TO THE INSTALLATION OF ANY GROUND ANCHORS ASSOCIATED WITH SHORING OF EXCAVATION.
4. SERVICES INFORMATION IS BASED ON DBYD, ICON WAE, ACT STORMWATER DATABASE AND SURVEY UNDERTAKEN IN OCTOBER 2024.

6.1. 1 x Ø32mm WATER TIE ENTERS THE BLOCK VIA THE Ø150mm CAST IRON MAIN IN THE NORTHBOURNE AVENUE VERGE. TIE SHOWN ON ICON WAE AND DBYD ONLY, NOT SHOWN ON SURVEY.

8.1. 1 x Ø150mm SEWER TIE ENTERS THE BLOCK FROM KNOWLES PLACE. MATERIAL OF TIE UNKNOWN.

GAS:

ELECTRICAL:

COMMUNICATIONS:

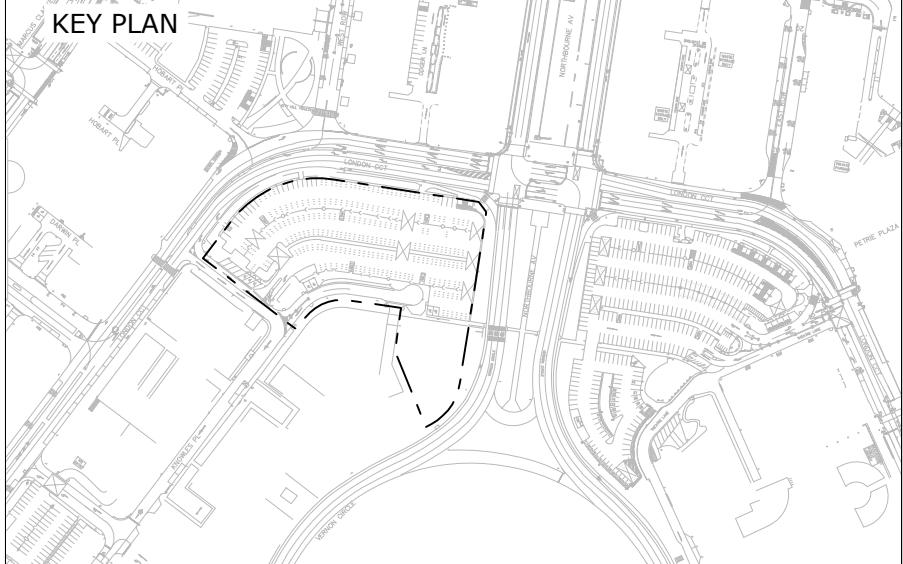
ABBREVIATIONS:

DICL	DUCTILE IRON CEMENT LINED
kPa	KILOPASCAL
oPVC	ORIENTED POLYVINYL CHLORIDE
MH	MAINTENANCE HOLE
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SEW.IL	SEWER INVERT LEVEL
SW.IL	STORMWATER INVERT LEVEL
SR	STRUCTURED REINFORCED CONCRETE PIPE
UG/HV	UNDERGROUND HIGH VOLTAGE
UG/LV	UNDERGROUND LOW VOLTAGE
uPVC	UNPLASTICISED POLYVINYL CHLORIDE
V	VITRIFIED CLAY
Ø	DIAMETER

BLOCK BOUNDARY

SUBSTATION

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE SERVICES
EXISTING SERVICES
NOTES AND DETAILS

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JOB REFERENCE

VS24086

DESIGNED S.GWYNNE

SCALE

NTS

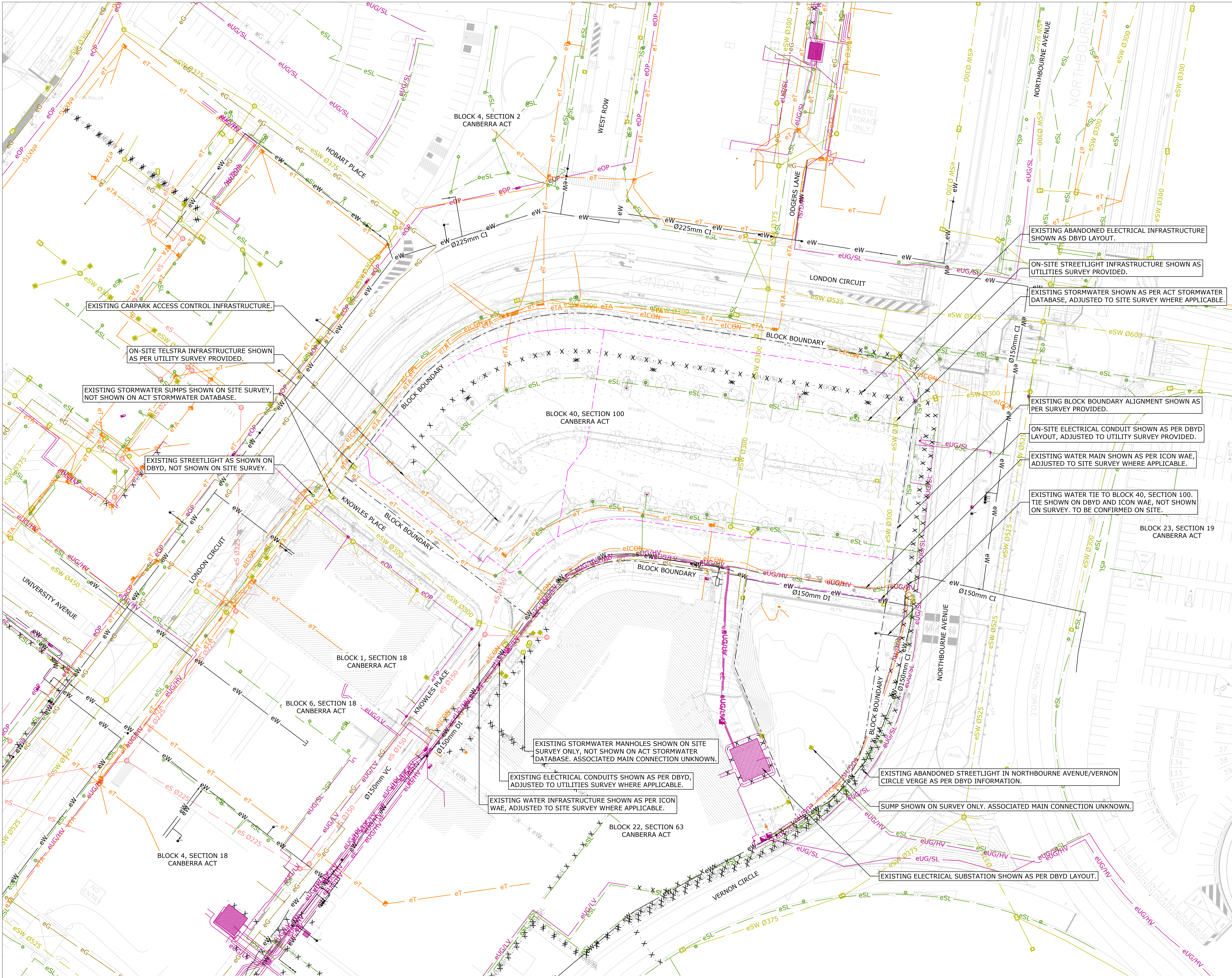
SCALE NT

ISSUE

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REVISION

2



SITE SERVICES - EXISTING SERVICES PLAN
1:500 @ A1

DISCIPLINE:
CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	A.N.	S.G.	13/01/25
2	PRELIMINARY	A.N.	S.G.	26/03/25

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KEY PLAN

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ARCHITECT

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CLIENT

ConstructionControl

PROJECT

**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE

**SITE SERVICES
EXISTING SERVICES
PLAN**

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.02

DESIGNED

S.GWYNNE

DRAFTED

A.NEUPANE

SCALE

SCALE 1:500

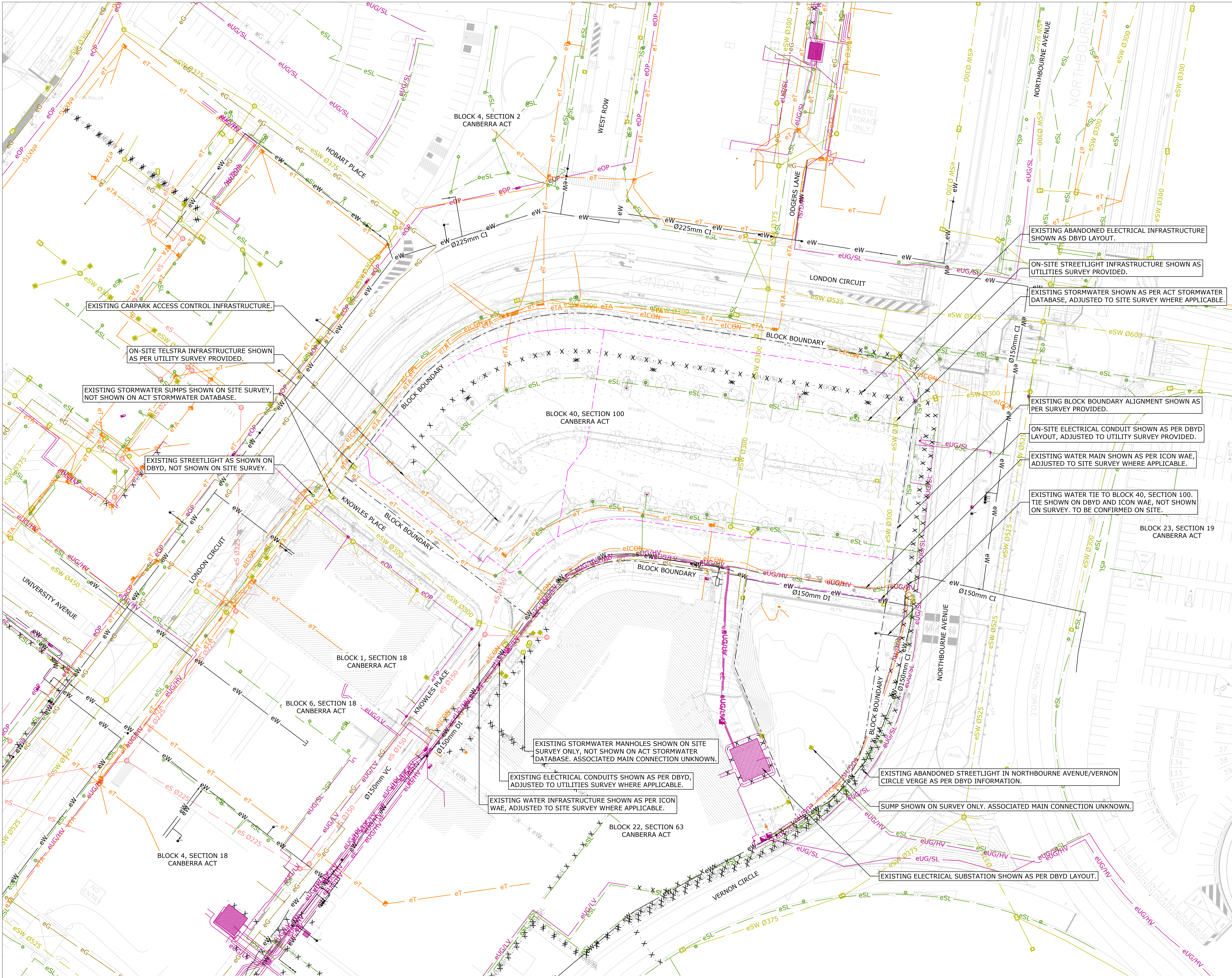
SIZE A1

ISSUE

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REVISION

2



SITE SERVICES - EXISTING SERVICES PLAN
1:500 @ A1

DISCIPLINE:
CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	A.N.	S.G.	13/01/25
2	PRELIMINARY	A.N.	S.G.	26/03/25

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ARCHITECT

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PROJECT

**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE

**SITE SERVICES
EXISTING SERVICES
PLAN**

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VS24086

DRAWING NUMBER

C.02

DESIGNED

S.GWYNNE

DRAFTED

A.NEUPANE

SCALE

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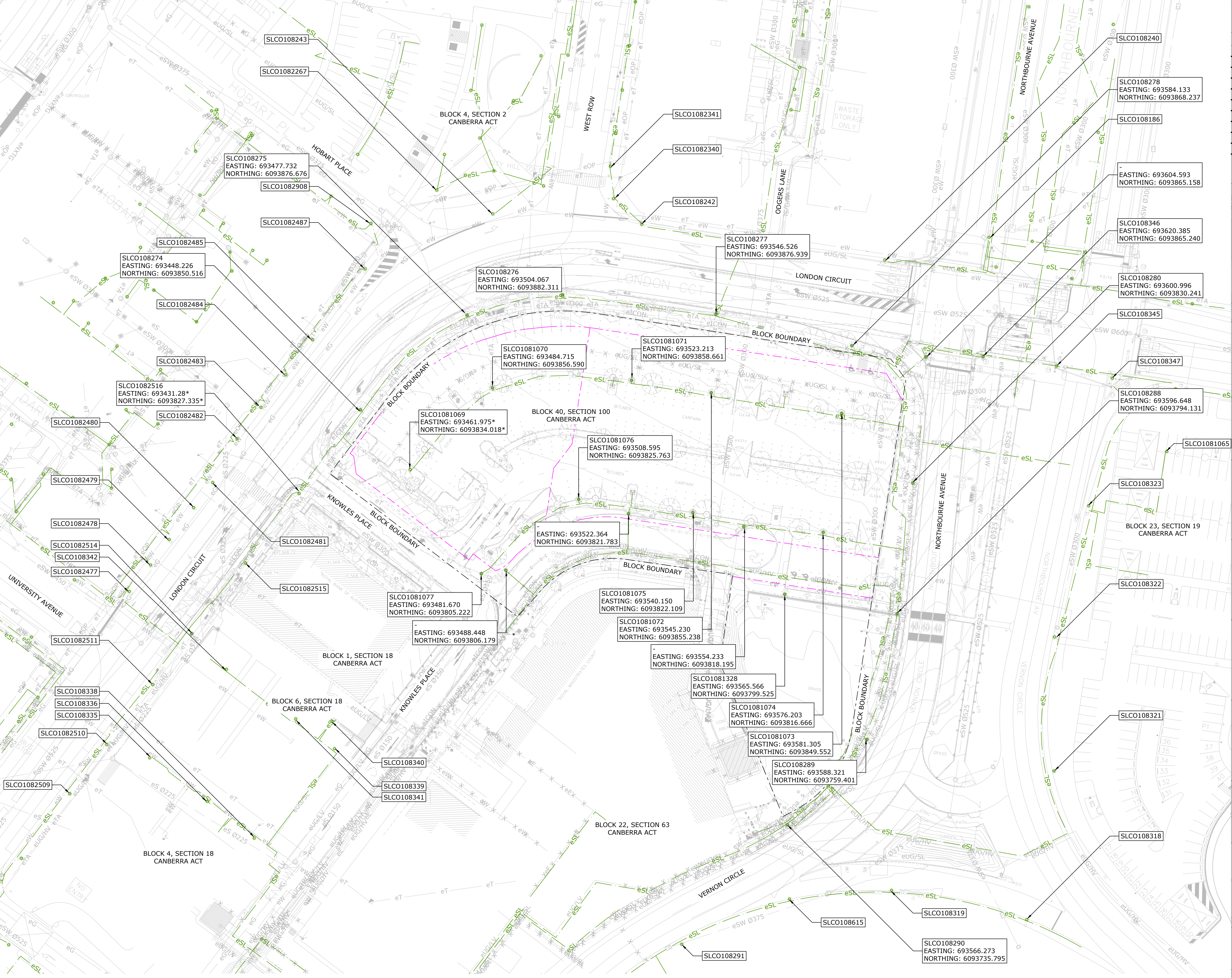
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ISSUE

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REVISION

2



NOTES:
1. COORDINATE NOTED WITH "*" ARE APPROXIMATE ONLY BASED ON DBYD DATA OR SIMILAR. NOT SITE SURVEY.

SITE SERVICES - STREETLIGHT ID PLAN
1:500 @ A1

DISCIPLINE:
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REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	A.N.	S.G.	13/01/25
2	PRELIMINARY	A.N.	S.G.	26/03/25

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KEY PLAN

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ACN 151 340 788

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PROJECT

**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE

**SITE SERVICES
EXISTING SERVICES
STREETLIGHT ID PLAN**

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VS24086

DRAWING NUMBER

C.04

DESIGNED

S.GWYNNE

DRAFTED

A.NEUPANE

SCALE

SCALE 1:500

SIZE A1

ISSUE

NOT FOR CONSTRUCTION

REVISION

2



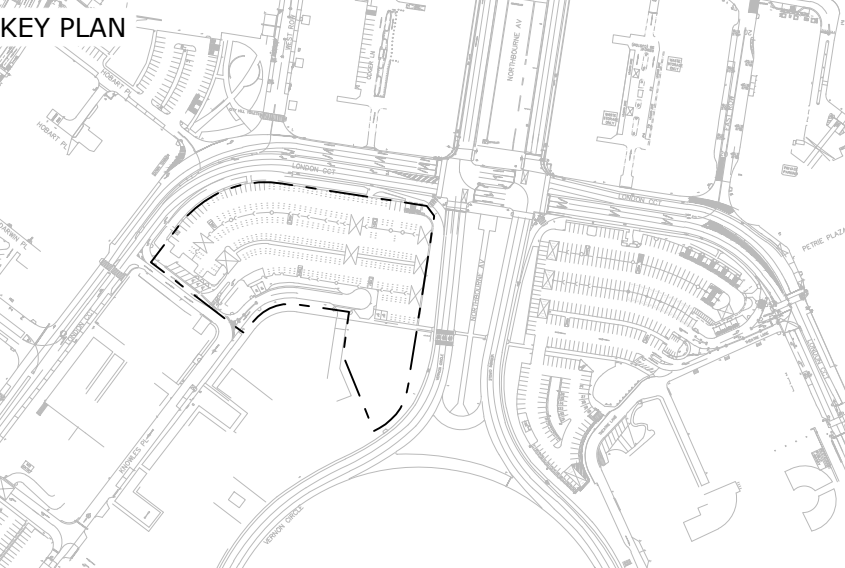
SITE SERVICES - WATER PRESSURE PLAN
1:500 @ A1

- NOTES:**
1. DRAWING TO BE READ IN CONJUNCTION WITH C.01, C.02, C.03 AND C.04.
 2. ALL PRESSURE INFORMATION SHOWN IS BASED ON ADVICE RECEIVED FROM ICON WATER 23/12/24.
 3. ICON HAVE ADVISED:
 - 3.1. THE PRESSURE IS CALCULATED WITH SERVICE RESERVOIRS AT HALF CAPACITY AND AN ALLOWANCE FOR RESERVOIR OUTLET LOSSES OF 1.5m.
 - 3.2. AWSSS DESIGN PEAK FLOW IS CONSIDERED IN THIS ANALYSIS.
 - 3.3. THE MODEL CONTAINS IDENTIFIED UNLINED MAINS.
 4. ICON WATER DISCLAIMER:
 - 4.1. THE ABOVE WATER SUPPLY PRESSURE INFORMATION ("INFORMATION") HAS BEEN CALCULATED USING DATA PROVIDED BY THIRD PARTIES AND/ OR ICON WATER, WHICH IS THEN SUBJECT TO MATHEMATICAL MODELLING. THE MODELLING ENDEAVOURS TO TAKE INTO ACCOUNT FUTURE WATER DEMAND PATTERNS AND FUTURE INFRASTRUCTURE DEVELOPMENT OF ADJOINING AREAS.
 - 4.2. YOU ACKNOWLEDGE THE SCOPE FOR ERRORS IN THE DATA USED BY ICON WATER IN DETERMINING THE INFORMATION.
 - 4.3. WHILST ICON WATER HAS USED REASONABLE ENDEAVOURS IN DETERMINING THE INFORMATION, ICON WATER DOES NOT MAKE ANY WARRANTY AS TO ITS ACCURACY.
 - 4.4. ICON WATER ACCEPTS NO LIABILITY FOR LOSS OR LIABILITY ARISING FROM RELIANCE ON THE INFORMATION.

DISCIPLINE: CIVIL SERVICES			
REV	ISSUE	CHK'D	APP'D
1	PRELIMINARY	A.N.	S.G.
2	PRELIMINARY	A.N.	S.G.

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Vital Design Solutions
HYDRAULIC CIVIL FIRE

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ABN 45 151 340 788
ACN 151 340 788

ARCHITECT



CLIENT



PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

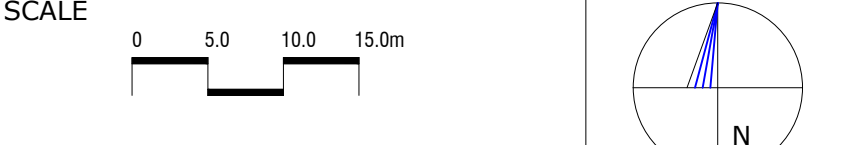
SITE SERVICES
EXISTING SERVICES
WATER PRESSURE PLAN

ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS, ORDERING MATERIAL OR PRODUCING SHOP DRAWINGS.

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JOB REFERENCE	DRAWING NUMBER
VS24086	C.05
DESIGNED S.GWYNNE	DRAFTED A.NEUPANE

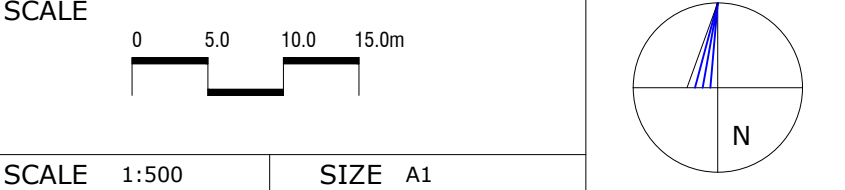
SCALE



SCALE 1:500 SIZE A1

ISSUE

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REVISION

2

WARNING:
THE LOCATION OF EXISTING SERVICES SHOWN ARE ESTIMATES ONLY. THESE ESTIMATES HAVE BEEN DEVELOPED FROM INFORMATION PROVIDED BY SERVICING AUTHORITIES AND PREVIOUS DOCUMENTATION ASSOCIATED WITH THE DEVELOPMENT. THE LOCATIONS SHOWN ON THIS DRAWING ARE NOT TO BE RELIED UPON FOR CONSTRUCTION WORKS. INFORMATION SHOWN IS TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.

VITAL DESIGN SOLUTIONS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN SHOWS MORE THAN PRESENCE OR ABSENCE OF A SERVICE. VITAL DESIGN SOLUTIONS ACCEPTS NO LIABILITIES FOR INACCURACIES SHOWN.

VITAL DESIGN SOLUTIONS DOES NOT HAVE PERFECT INFORMATION IN RELATION TO UNDERGROUND SERVICES INCLUDING ORIENTATION OF CONDUIT BANKS, PIPE THICKNESS, SOCKET LOCATIONS, ETC. THE INFORMATION PROVIDED IS BASED ON A COMPILATION OF EXISTING ASSET DATA, NON INTRUSIVE SITE SURVEY AND EXPOSED SURVEY OF ANY SERVICES WHERE PROVIDED. VITAL DESIGN SOLUTIONS WILL REQUIRE TIME TO CO-ORDINATE ANY DESIGN ELEMENTS AROUND SERVICES FOUND ON SITE NOT TO BE IN ACCORDANCE WITH THE PRELIMINARY INFORMATION PROVIDED.

DEPTH OF SERVICE IS ASSUMED TO BE:
600mm < DEPTH < 1000mm
UNLESS SHOWN OTHERWISE ON PLAN.

CONTRACTOR IS TO LIAISE WITH AUTHORITIES REGARDING SERVICES LOCATION AND UNDERTAKE SAFE POT HOLING TO CONFIRM LOCATION AND DEPTH OF EXISTING SERVICES PRIOR TO CONSTRUCTION.

- NOTES:**
- DRAWING TO BE READ IN CONJUNCTION WITH PROPOSED SERVICES DRAWING SERIES.
 - CONTRACTOR IS TO GAIN APPROVAL TO REMOVE/ADJUST ANY SURVEY MARKS INCLUDING CADASTRAL REFERENCE MARKS, PERMANENT SURVEY MARKS, STATE SURVEY MARKS AND ANY OTHER. PLANS DO NOT SHOW LOCATION OF SURVEY MARKS, CONTRACTOR IS TO UNDERTAKE OWN INVESTIGATION.
 - SERVICES IN CLOSE PROXIMITY TO EXCAVATION TO BE POTHOLED AND IDENTIFIED PRIOR TO EXCAVATION. RL'S OF ALL IN GROUND SERVICES TO BE SURVEYED PRIOR TO THE INSTALLATION OF ANY GROUND ANCHORS ASSOCIATED WITH SHORING OF EXCAVATION.

- STRATUM SPLIT:**
- THE SITE IS PROPOSED DEVELOPED AS A STRATUM SUBDIVISION PER THE BELOW:
 - STRATUM A: NORTH AND SOUTH TOWER DEVELOPMENT.
 - STRATUM B: WEST TOWER DEVELOPMENT.

BLOCK 40, SECTION 100 - PROPOSED SERVICES:

- WATER:**
- THE SITE IS PROPOSED TO BE SERVICED BY DUAL WATER TIES
 - PROPOSED DUAL Ø150mm WATER TIES FROM PROPOSED Ø150mm MAIN REALIGNMENT AT KNOWLES PLACE EXTENSION TO SERVICE THE STRATUM A DEVELOPMENT.
 - PROPOSED DUAL Ø150mm WATER TIES FROM EXISTING Ø150mm KNOWLES PLACE MAIN TO SERVICE THE STRATUM B DEVELOPMENT.
 - REFER TO EXTERNAL SERVICES PLAN FOR DETAILS ON PROPOSED WATER CONNECTION.
 - TEMPORARY WATER MAIN TO BE PROVIDED DURING EXCAVATION AND REPLACEMENT OF THE EXISTING WATER MAIN.

- SEWER:**
- EXISTING Ø150mm SEWER MAIN IN SOUTH KNOWLES PLACE TO BE UPGRADED TO Ø225mm. MAIN TO GENERALLY FOLLOW EXISTING ALIGNMENT AND LEVELS.
 - THE SITE IS THEN SERVICED BY DUAL Ø225mm SEWER TIES AT 2% FROM PROPOSED SEWER MAINTENANCE HOLES ON THE UPGRADED SEWER MAIN.
 - REFER TO EXTERNAL SERVICES PLAN FOR DETAILS ON PROPOSED SEWER CONNECTIONS.

- STORMWATER:**
- 2 x PROPOSED STORMWATER MAIN EXTENSIONS ARE PROPOSED AT THE NORTH EAST AND SOUTH WEST CORNERS OF THE SITE, TO ALLOW FOR STORMWATER SERVICING.
 - THE STRATUM A NORTH TOWER DEVELOPMENT IS PROPOSED TO BE SERVICED BY 1 x Ø300mm STORMWATER TIE FROM PROPOSED LIGHT RAIL STORMWATER MAIN IN NORTH LONDON CIRCUIT VERGE.
 - THE STRATUM A SOUTH TOWER DEVELOPMENT IS PROPOSED TO BE SERVICED BY 1 x Ø300mm STORMWATER TIE FROM PROPOSED MANHOLE ON THE PROPOSED STORMWATER MAIN EXTENSION FROM LIGHT RAIL STORMWATER MAIN IN NORTHBOURNE AVENUE VERGE.
 - THE STRATUM B DEVELOPMENT IS PROPOSED TO BE SERVICED BY 1 x Ø300mm STORMWATER TIE FROM PROPOSED R-SUMP ON THE PROPOSED STORMWATER MAIN EXTENSION FROM LIGHT RAIL STORMWATER MAIN IN WEST LONDON CIRCUIT VERGE.
 - PROPOSED KNOWLES PLACE EXTENSION IS PROPOSED TO BE SERVICED BY ACO BRICKSLOT 200. PENDING TCCS PRELIMINARY ENDORSEMENT OF PRODUCT AS KNOWLES PLACE STORMWATER WILL BECOME A TCCS ASSET.
 - REFER TO C.10 DRAWING SERIES FOR INFORMATION RELATING TO STORMWATER SERVICES PROPOSED.
 - REFER TO C.20 DRAWING SERIES FOR INFORMATION RELATING TO ON-SITE WSUD MEASURES PROPOSED.

- GAS:**
- IF GAS IS PROPOSED TO SITE, DETAIL BY OTHERS.

- ELECTRICITY:**
- ALL ELECTRICAL SERVICING DETAIL BY OTHERS INCLUDING SUPPLY AND SUBSTATION.

- COMMUNICATIONS:**
- ALL COMMUNICATIONS SERVICING DETAIL BY OTHERS.

- LIGHT RAIL SERVICES:**
- PROPOSED LIGHT RAIL SERVICES SHOWN AS PER LIGHT RAIL DOCUMENTATION RECEIVED ON 28/01/25. SHOWN FOR COORDINATION.

LEGEND SERVICE	EXISTING	PROPOSED	INFRASTRUCTURE	EXISTING	PROPOSED
WATER MAIN			WATER METER		
SEWER MAIN			WATER VALVE		
STORMWATER MAIN			GAS METER		
Ø300mm STORMWATER MAIN			GAS VALVE		
SUBSOIL DRAIN			SEWER MANHOLE		
GAS MAIN			STORMWATER MANHOLE		
ELECTRICITY			STORMWATER GRATED PIT		
ELECTRICITY UG/HV			KERB INLET (KI) SUMP		
ELECTRICITY UG/LV			SSD HIGH END RISER (HER)		
STREETLIGHT MAIN					
OPTUS MAIN					
TELSTRA MAIN					
TRANSACT MAIN					
COMMUNICATIONS					
ABANDONED SERVICE					
BLOCK BOUNDARY					
SERVICE TO BE REMOVED					

LEGEND LIGHT RAIL SERVICE	PROPOSED
LIGHT RAIL STORMWATER MAIN	
LIGHT RAIL SUBSOIL DRAIN	
LIGHT RAIL COMBINED SERVICE ROUTE	
LIGHT RAIL IRRIGATION WATER	
LIGHT RAIL IRRIGATION COMMS	
LIGHT RAIL ELECT HV	
LIGHT RAIL STORMWATER SUMP	
LIGHT RAIL STORMWATER MANHOLE	
LIGHT RAIL STORMWATER TRENCH DRAIN	
LIGHT RAIL COMMS PIT	

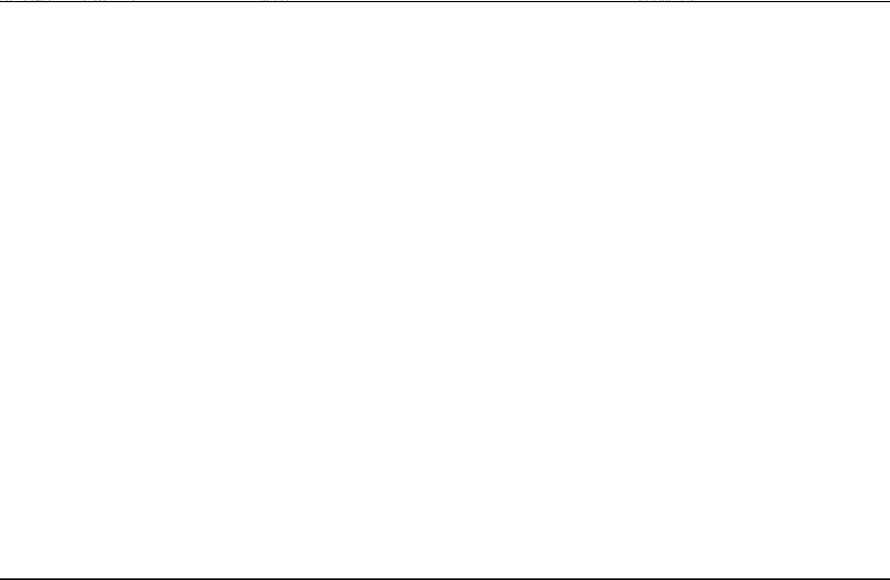
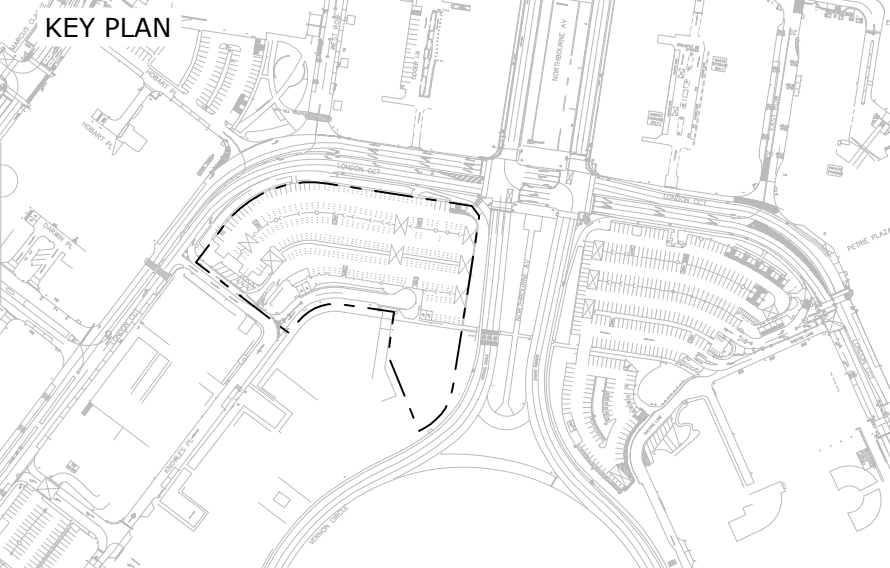
DISCIPLINE:

CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	26/03/26
2	PRELIMINARY	Z.L.	S.G.	04/04/25

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HYDRAULIC CIVIL FIRE

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ARCHITECT

JPW

CLIENT



PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

SITE SERVICES
SUMMARY PROPOSED SERVICES
NOTES AND DETAILS

ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS, ORDERING MATERIAL OR PRODUCING SHOP DRAWINGS.

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JOB REFERENCE
VS24086

DRAWING NUMBER
C.10

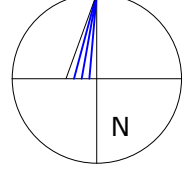
DESIGNED S.GWYNNE DRAFTED Z.LIU

SCALE

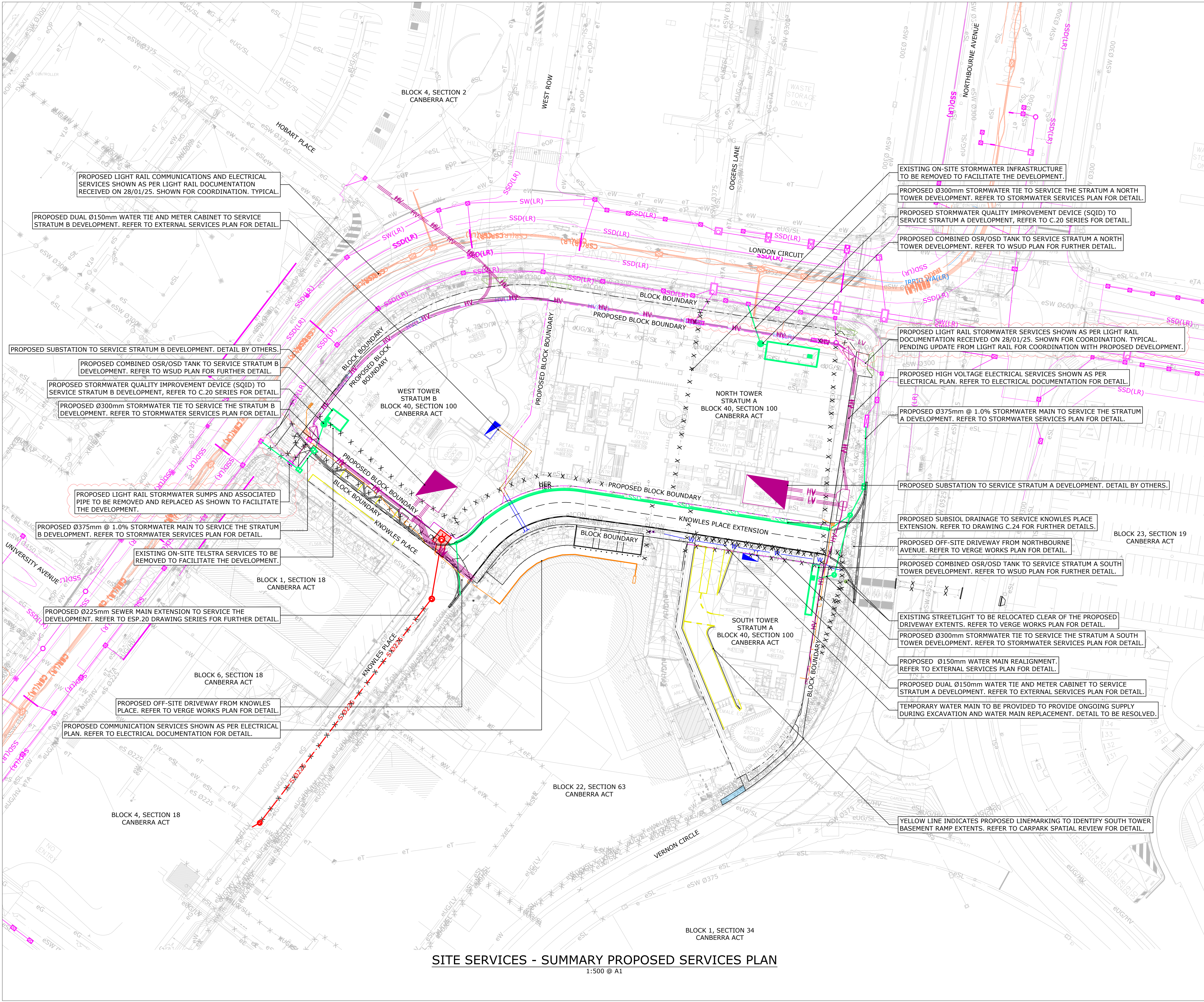
NTS

SCALE NTS	SIZE A1
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REVISION
2



SITE SERVICES - SUMMARY PROPOSED SERVICES PLAN
1:500 @ A1

DISCIPLINE:
CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	26/03/25
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KEY PLAN

HYDRAULIC CIVIL FIRE

CANBERRA - GROUND FLOOR, 20 SPRINGLITE STREET, BEARD ACT 2620
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ARCHITECT

CLIENT

PROJECT
60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE
SITE SERVICES
SUMMARY PROPOSED SERVICES
PLAN

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JOB REFERENCE
VS24086

DRAWING NUMBER
C.11

DESIGNED S.GWYNNE

DRAFTED Z.LIU

SCALE
0 5.0 10.0 15.0m

SCALE 1:500

SIZE A1

ISSUE

REVISION

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2

- GENERAL:**
1. DRAWING TO BE READ IN CONJUNCTION WITH C.51, C.52, C.53, C.54, C.55 AND C.56.
 2. ALL WORKS TO BE IN ACCORDANCE WITH THE TCCS MUNICIPAL INFRASTRUCTURE STANDARDS.

- PROPOSED DRIVEWAYS:**
3. SERVICE DRIVEWAY GRADING TO BE IN ACCORDANCE WITH VEHICULAR AND PEDESTRIAN ACCESSIBILITY STANDARDS.

- PAVEMENT:**
4. ALL WORKS TO BE IN ACCORDANCE WITH TCCS MUNICIPAL INFRASTRUCTURE STANDARDS UNLESS NOTED OTHERWISE.
 5. TRIMMER BARS TO BE D12 REINFORCEMENT. MINIMUM 600mm IN LENGTH, 200mm APART, TIED TO UNDERSIDE OF REINFORCEMENT LAYER.
 6. RE-ENTRANT BARS TO BE MINIMUM 900mm IN LENGTH TIED TO THE UNDERSIDE OF THE REINFORCEMENT LAYER.
 7. ALL BASECOURSE MATERIAL TO COMPLY WITH TCCS MUNICIPAL INFRASTRUCTURE STANDARDS AND COMPACTED TO 95% MMDD.
 8. ALL CONCRETE PAVEMENTS TO BE BROOM FINISHED U.N.O. CONCRETE AT GRADES GREATER THAN 10% TO BE HEAVILY BROOM FINISHED.
 9. ANY PROPOSED ADJUSTMENT TO JOINTING LAYOUT TO BE SUBMITTED TO AND APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.

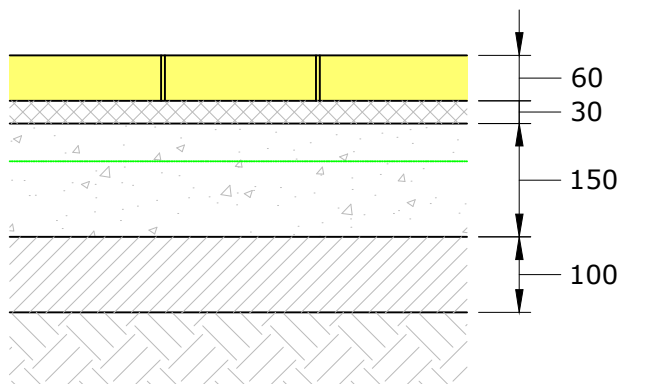
- PAVEMENTS NEAR EXISTING TREES:**
10. OUTER EXTENT OF PROPOSED PAVEMENTS TO BE HYDROEXCAVATED AT A REDUCED PRESSURE FOR FULL DEPTH OF PAVEMENT TO IDENTIFY ANY MAJOR TREE ROOTS CROSSING THE EXTENTS.
 11. NO TREE ROOTS GREATER THAN 35mm IN DIAMETER ARE TO BE CUT.
 12. TREE ROOTS LESS THAN 35mm THAT ARE CUT ARE TO BE WRAPPED IN HESSIAN AND KEPT MOIST PRIOR TO BACKFILLING.

- KERBING:**
13. LANDSCAPING TO MATCH LEVELS OF TOP OF KERB ALONG INTERFACE.

SCHEDULE OF WITNESS AND HOLD POINTS - PAVEMENT
HOLD POINTS TO BE ADDRESSED BY CONTRACTOR AND RELEASED BY ENGINEER PRIOR TO CONTINUATION OF WORK.

WITNESS POINTS TO BE ADDRESSED AND WRITTEN RELEASE ISSUED BY ENGINEER PRIOR TO CONTINUATION OF WORKS.

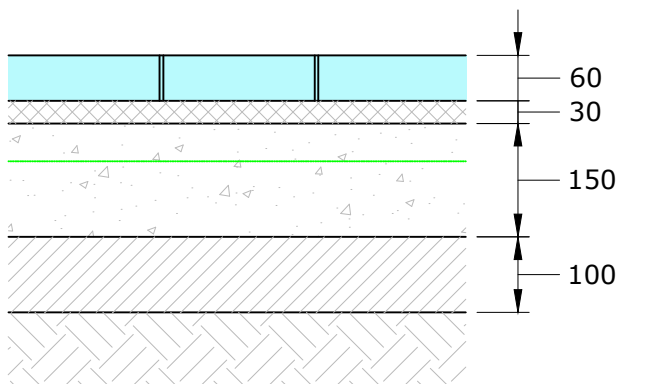
- | | | |
|------|----|--|
| 2.01 | HP | INTEGRITY OF MATERIAL
DELIVERY DOCKETS OF MATERIAL PROPOSED TO BE USED AS BASECOURSE, REINFORCEMENT AND CONCRETE TO BE PROVIDED TO ENGINEER FOR VERIFICATION. |
| 2.02 | WP | SUBGRADE CONDITION
CONTRACTOR TO PREPARE SUBGRADE FOR INSPECTION. ENGINEER TO PROVIDE WRITTEN APPROVAL OF COMPACTED SUBGRADE, AS INSPECTED, BEFORE CONTRACTOR IS TO CONTINUE CONSTRUCTING PAVEMENT. |
| 2.03 | WP | BASECOURSE CONDITION
CONTRACTOR TO PREPARE BASECOURSE FOR INSPECTION. ENGINEER TO PROVIDE WRITTEN APPROVAL OF COMPACTED SUBGRADE, AS INSPECTED, BEFORE CONTRACTOR IS TO CONTINUE CONSTRUCTING PAVEMENT. |
| 2.04 | WP | FORMWORK INSPECTION
CONTRACTOR TO INSTALL FORMWORK ASSOCIATED WITH ON-SITE PAVEMENTS. ENGINEER TO PROVIDE WRITTEN APPROVAL OF FORMWORK, AS INSPECTED, BEFORE CONTRACTOR POURS CONCRETE. |



- ASSUMED CBR>3%
- 60mm THICK STONE PAVER (REFER LANDSCAPE)
- 30mm MORTAR
- 150mm N32 CONCRETE
- 1 LAYER SL82 50mm COVER
- 100mm DGB20 COMPACTED TO 102% STANDARD
- SUBGRADE COMPACTED TO 100% STANDARD

VERGE PAVEMENT (PA1)

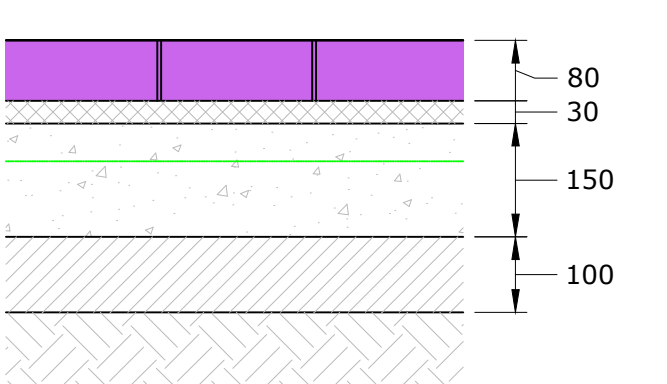
SCALE 1:10 @ A1



- ASSUMED CBR>3%
- 60mm THICK STONE PAVER (REFER LANDSCAPE)
- 30mm MORTAR
- 150mm N32 CONCRETE
- 1 LAYER SL82 50mm COVER
- 100mm DGB20 COMPACTED TO 102% STANDARD
- SUBGRADE COMPACTED TO 100% STANDARD

VERGE PAVEMENT (PA2)

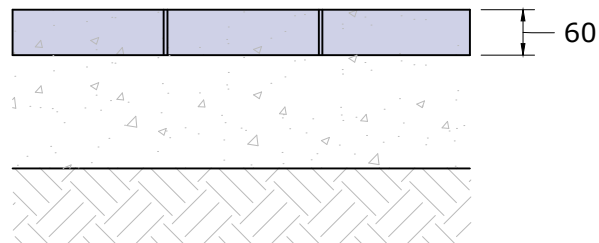
SCALE 1:10 @ A1



- ASSUMED CBR>3%
- 80mm THICK STONE PAVER (REFER LANDSCAPE)
- 30mm MORTAR
- 150mm N32 CONCRETE
- 1 LAYER SL82 50mm COVER
- 100mm DGB20 COMPACTED TO 102% STANDARD
- SUBGRADE COMPACTED TO 100% STANDARD

SHARED AREA PAVEMENT (PA7)

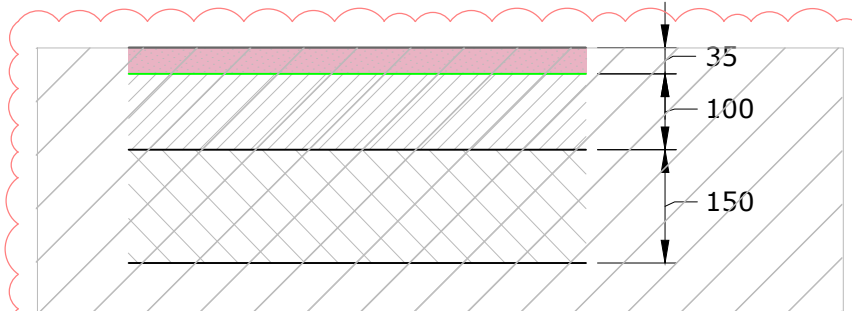
SCALE 1:10 @ A1



- ASSUMED CBR>3%
- 60mm THICK PAVEMENT PER LANDSCAPE
- ARCHITECTS SPEC
- 150mm NO FINES CONCRETE (SPEC TBC)
- STRATAVAULT (REFER LANDSCAPE)

POROUS PARKING PAVEMENT (PA8)

SCALE 1:10 @ A1

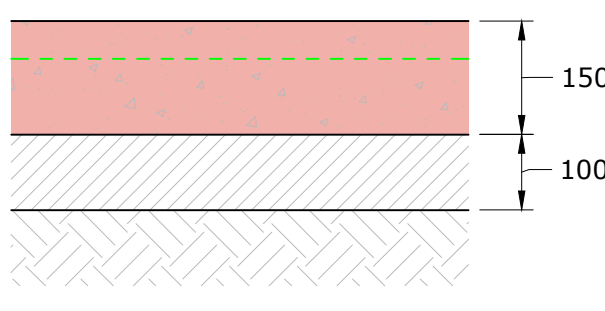


- 35mm SURFACE COURSE - AC10
- 7mm PRIMER SEAL
- 100mm BASECOURSE - DGB20
- 150mm SUBBASE - DGS20
- SUBGRADE MIN. CBR 5%
- ALL DIMENSION SHOWN ON DETAIL ARE IN mm

ASPHALT DRIVEWAY PAVEMENT (PA9)

SCALE 1:10 @ A1

DETAIL PENDING ASPHALT PAVEMENT DESIGN. PLACEHOLDER ONLY.



- ASSUMED CBR>3%
- 150mm N25 CONCRETE
- SL82 WITH 50mm TOP COVER
- 100mm DGB20 COMPACTED TO 98%MMDD
- SUBGRADE COMPACTED TO 95%MMDD
- JOINTING AS PER PLAN

HEAVY DUTY RIGID PAVEMENT (PA10)

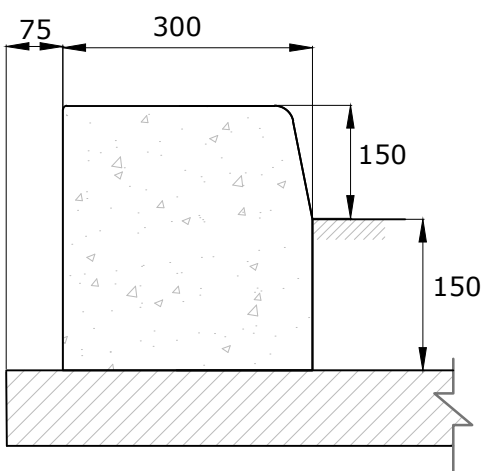
SCALE 1:10 @ A1



- 100mm N25 CONCRETE
- 100mm DGB20 COMPACTED TO 95%MMDD
- SUBGRADE COMPACTED TO 90%MMDD
- JOINTING AS PER PLAN

TCCS STANDARD FOOTPATH PAVEMENT (PA11)

SCALE 1:10 @ A1

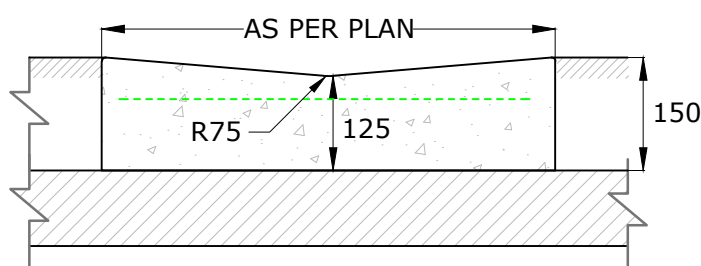


- N25 CONCRETE KERB ONLY
- 100mm DGB20 BASE
- EXPANSION JOINTS @ 12m CENTERS
- WEAKENED PLANE JOINTS @ 3m CENTERS
- STEEL FLOAT FINISH APPLIED TO KERB
- JOINT ARRANGEMENT AND CONSTRUCTION IN THE KERB SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS" EDITION 1, REVISION 0 /SEPTEMBER 2002 - SECTION 6.09.1.
- ALL DIMENSIONS SHOWN ON DETAIL ARE IN mm.

MODIFIED KERB ONLY (MKO)

SCALE 1:10 @ A1

TO BE REPLACED WITH STONE KERB. PLACEHOLDER ONLY.

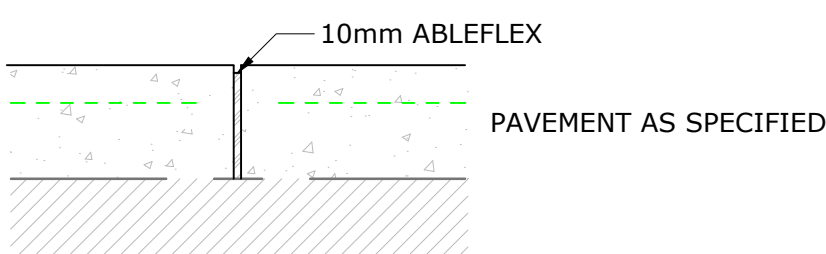


- N25 STONE FLUSH KERB
- 100mm DGB20 BASE
- EXPANSION JOINTS @ 12m CENTERS
- WEAKENED PLANE JOINTS @ 3m CENTERS
- STEEL FLOAT FINISH APPLIED TO KERB & GUTTER
- ALL JOINTS IN KERBS SHALL BE IN ACCORDANCE WITH SECTION 6.09.1 OF "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS" EDITION 1, REVISION 0/SEPT 2002
- ALL DIMENSIONS SHOWN ON DETAIL ARE IN mm

MODIFIED FLUSH KERB (MFK2)

SCALE 1:10 @ A1

TO BE REPLACED WITH STONE KERB. PLACEHOLDER ONLY.

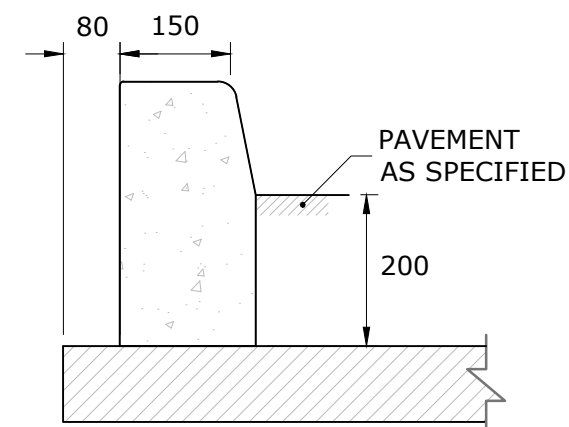


- N25 CONCRETE FLUSH KERB
- 100mm DGB20 BASE
- EXPANSION JOINTS @ 12m CENTERS
- WEAKENED PLANE JOINTS @ 3m CENTERS
- STEEL FLOAT FINISH APPLIED TO KERB & GUTTER
- ALL JOINTS IN KERBS SHALL BE IN ACCORDANCE WITH SECTION 6.09.1 OF "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS" EDITION 1, REVISION 0/SEPT 2002
- ALL DIMENSIONS SHOWN ON DETAIL ARE IN mm

MODIFIED FLUSH KERB (MFK3)

SCALE 1:10 @ A1

TO BE REPLACED WITH STONE KERB. PLACEHOLDER ONLY.

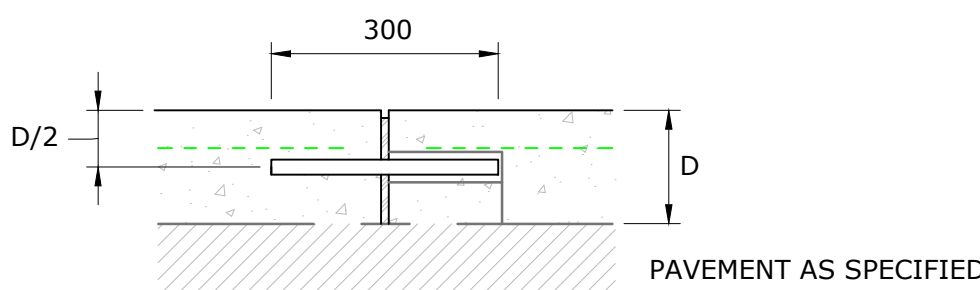


- N25 CONCRETE KERB & GUTTER
- 100mm DGB20 BASE
- EXPANSION JOINTS @ 12m CENTERS
- WEAKENED PLANE JOINTS @ 3m CENTERS
- STEEL FLOAT FINISH APPLIED TO KERB & GUTTER
- ALL JOINTS IN KERBS SHALL BE IN ACCORDANCE WITH SECTION 6.09.1 OF "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS" EDITION 1, REVISION 0/SEPT 2002
- ALL DIMENSIONS SHOWN ON DETAIL ARE IN mm.

MODIFIED KERB & GUTTER (MKG)

SCALE 1:10 @ A1

TO BE REPLACED WITH STONE KERB AND GUTTER. PLACEHOLDER ONLY.



- INSTALL 20mm x 300mm LONG GALV. SQUARE DOWELS WITH DANLEY DOWELMASTER(R)
- DOWEL TO BE AT MID-DEPTH OF CONCRETE
- DOWELS SPACING TBC
- 10mm ABLEFLEX TO BE INSTALLED ALONG LENGTH OF JOINT.
- TOP OF JOINT TO BE SEALED WITH BOSTIK SEAL'N'FLEX OR EQUIVALENT.
- FOR APPLICATION TO SLABS UNDER STONE PAVERS.

DOWELLED EXPANSION JOINT

SCALE 1:10 @ A1

NOTE:

1. PROPOSED DRIVEWAYS DESIGNED TO ACCOMMODATE SERVICES VEHICLE SWEEP PATHS.
- 1.1. REFER TO DRAWING SK.01 SERIES FOR WASTE VEHICLE AND EVOENERGY TRUCK SWEEP PATHS ANALYSIS.
- 1.2. REFER TO DRAWING SK.10 SERIES FOR EXTERNAL SWEEP PATHS ANALYSIS.
- 1.3. REFER TO DRAWING SK.20 SERIES FOR EXISTING LAW COURTS SWEEP PATHS ANALYSIS.
- 1.4. REFER TO DRAWING C.280 SERIES FOR KNOWLES PLACE EXTENSION SWEEP PATHS ANALYSIS.

LEGEND

SERVICE	EXISTING	PROPOSED
WATER MAIN	eW	W
SEWER MAIN	eS	S
SEWER RISING MAIN	eSRM	
STORMWATER MAIN	eSW	SW
GAS MAIN	eG	
ELECTRICITY	eE	E
ELECTRICITY UG/HV	eUG/HV	HV
ELECTRICITY UG/LV	eUG/LV	
STREETLIGHT MAIN	eSL	
OPTUS MAIN	eOP	
TELSTRA MAIN	eT	
TRANSACT MAIN	eTA	
COMMUNICATIONS	eC	C
ABANDONED SERVICE	X-X-X-X-X	
BLOCK BOUNDARY	- - - - -	
LANDSCAPE		
VERGE PAVEMENT (PA1)		
VERGE PAVEMENT (PA2)		
VERGE PAVEMENT (PA7)		
POROUS PARKING PAVEMENT (PA8)		
ASPHALT PAVEMENT (PA9)		
HEAVY DUTY RIGID PAVEMENT (PA10)		
CONCRETE JOINT		
TRIMMER BAR		
GRATED TRENCH DRAIN		GTD
WEAKENED PLANE JOINT		WPJ
EXPANSION JOINT		EJ
DOWELLED EXPANSION JOINT		DEJ
TACTILE GROUND SURFACE INDICATORS		TGS1
TREE TO BE REMOVED		

LEGEND

LIGHT RAIL SERVICE	PROPOSED
LIGHT RAIL STORMWATER MAIN	SW(LR)
LIGHT RAIL SUBSOIL DRAIN	SSD(LR)
LIGHT RAIL COMBINED SERVICE ROUTE	CSR(LR)
LIGHT RAIL IRRIGATION WATER	IRRIG WA(LR)
LIGHT RAIL IRRIGATION COMMS	IRRIG C(LR)
LIGHT RAIL ELECT HV	HV(LR)
LIGHT RAIL PAVEMENT LINework	
LIGHT RAIL STORMWATER SUMP	
LIGHT RAIL STORMWATER MANHOLE	
LIGHT RAIL STORMWATER TRENCH DRAIN	
LIGHT RAIL COMMS PIT	

INFRASTRUCTURE

WATER METER	
WATER VALVE	
FIRE BOOSTER VALVE	
STREETLIGHT	
STORMWATER SUMP	
SEWER MANHOLE	

EXISTING

PROPOSED

DISCIPLINE:

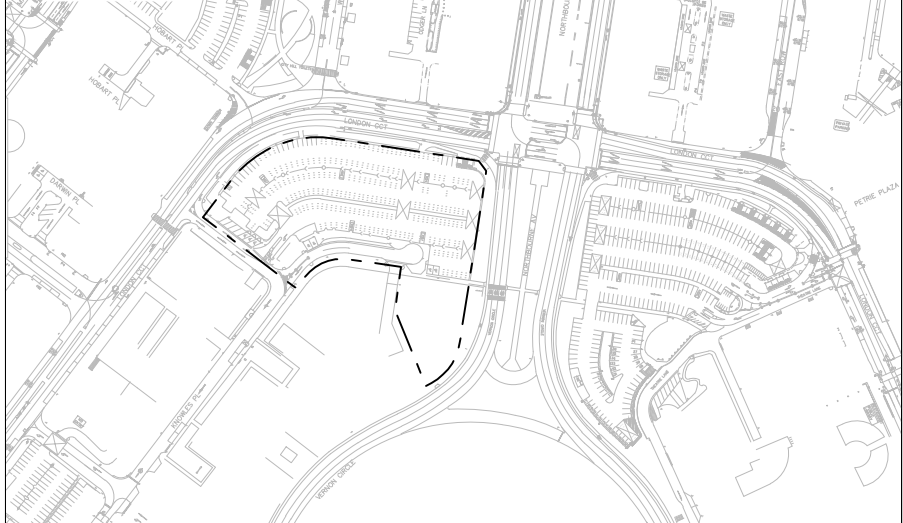
CIVIL SERVICES

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KEY PLAN



Vital Design Solutions
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MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006
Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
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ARCHITECT

JPW

CLIENT



PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

VERGE WORKS
NOTES AND DETAILS
(SHEET 01 OF 02)

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JOB REFERENCE
VS24086

DRAWING NUMBER
C.50

DESIGNED S.GWYNNE

DRAFTED Z.LIU

SCALE



SCALE

1:10

SIZE

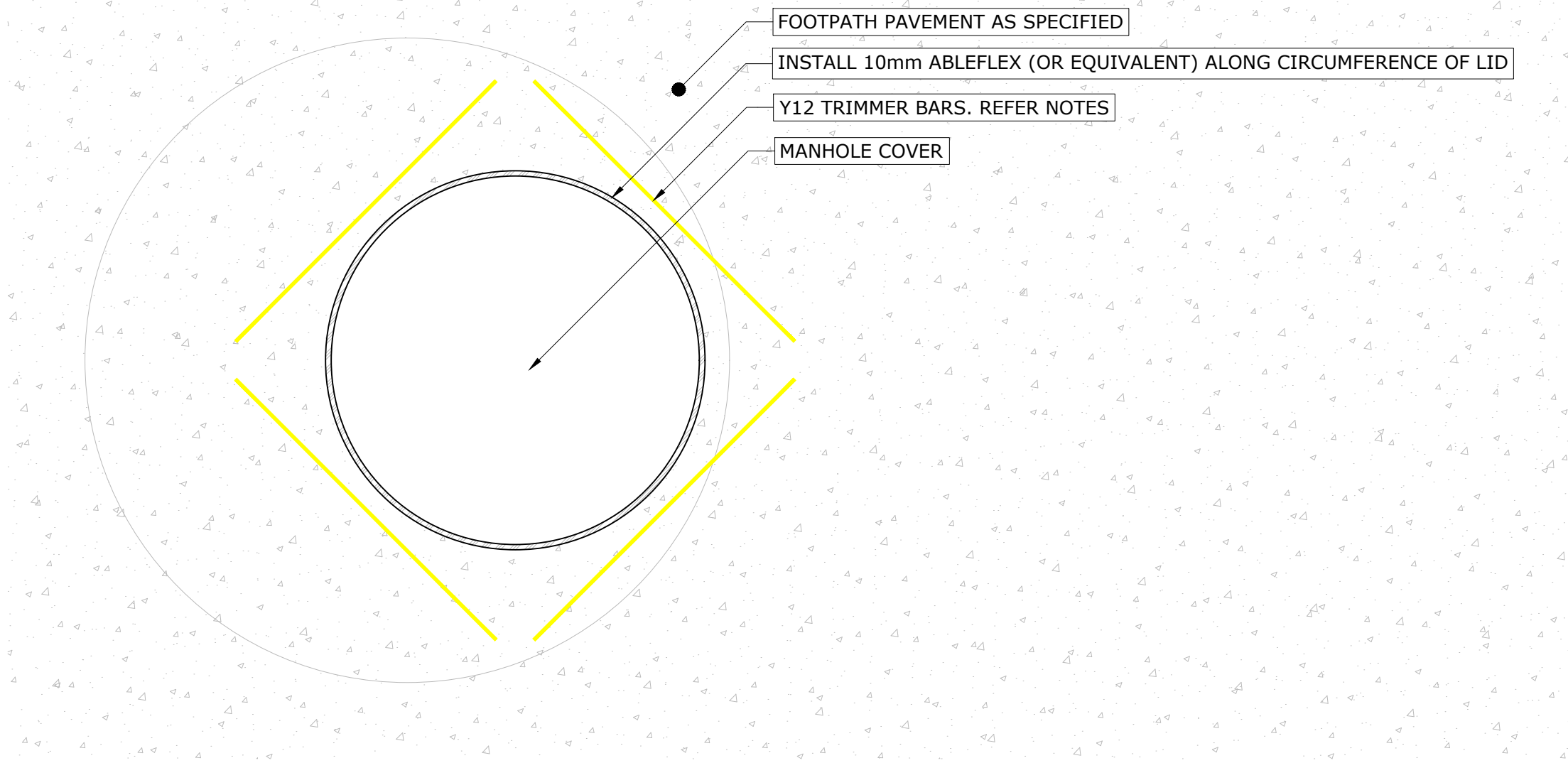
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ISSUE

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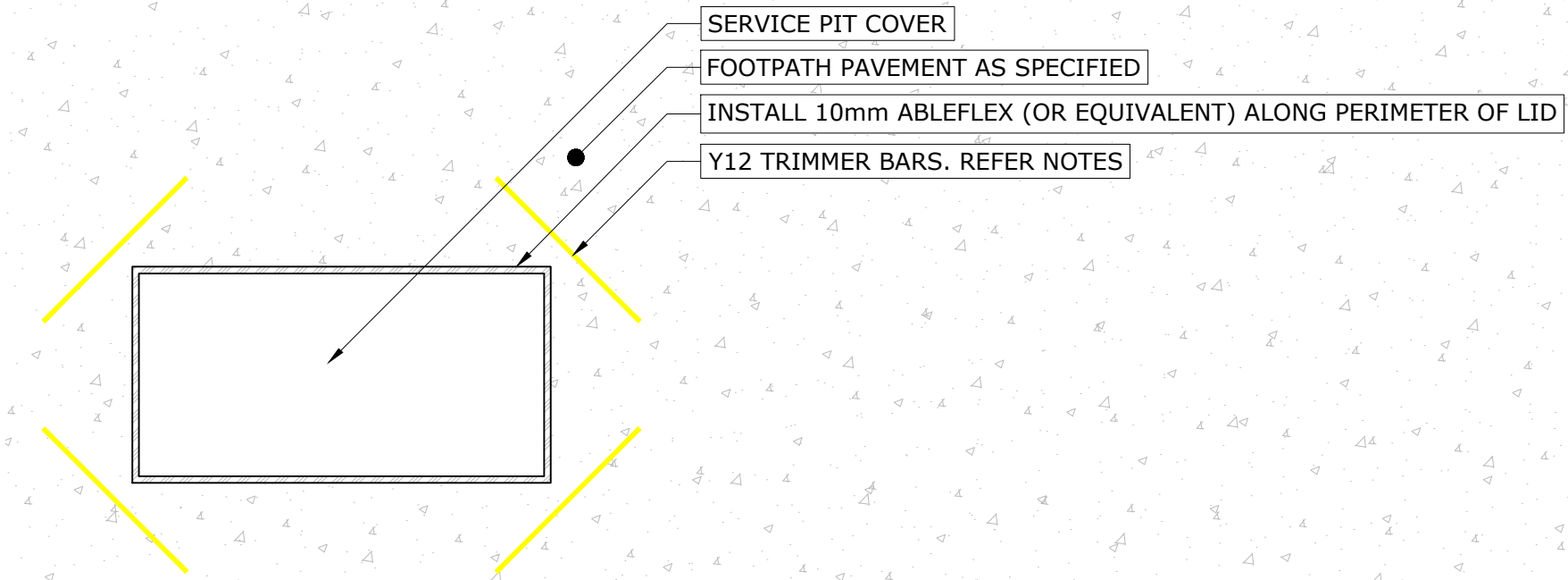
REVISION

3



MANHOLES IN FOOTPATHS - TYPICAL CO-ORDINATION DETAIL
1:10 @ A1

- INSTALL Y12 TRIMMER BARS AT 45 DEGREES TO FOOTPATH ORIENTATION.
- LENGTH OF TRIMMER BARS TO BE EQUAL TO OR GREATER THAN DIAMETER OF PENETRATION IN FOOTPATH.
- MINIMUM COVER 50mm.
- TRIMMER BARS INCLUDED TO CONTROL CRACKING AT INTERFACE OF FOOTPATH AND MANHOLE COVER.



RECTANGULAR SERVICE PITS/VALVE COVERS IN FOOTPATHS - TYPICAL CO-ORDINATION DETAIL
1:10 @ A1

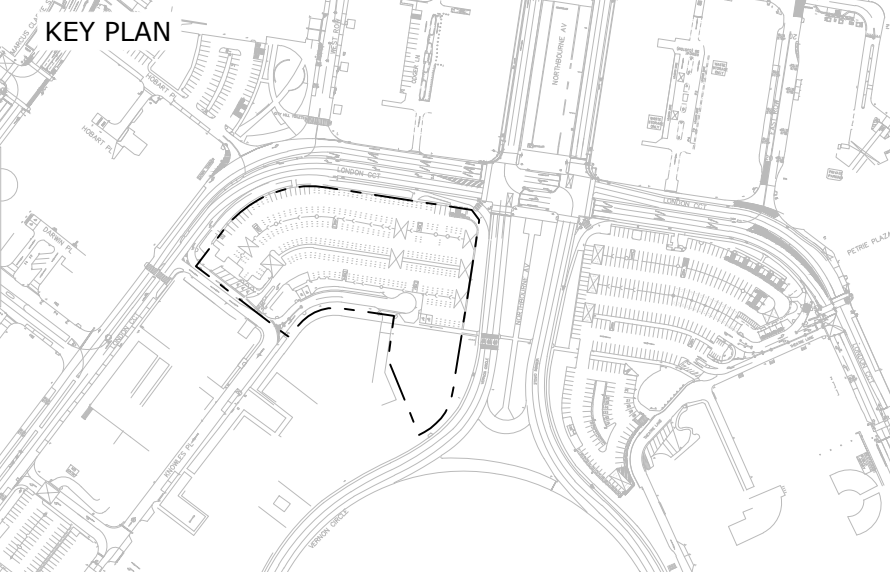
- INSTALL Y12 TRIMMER BARS AT 45 DEGREES TO FOOTPATH ORIENTATION.
- LENGTH OF TRIMMER BARS TO BE EQUAL TO OR GREATER THAN SHORTEST PLAN VIEW DIMENSION OF SERVICE PIT PENETRATION (WIDTH OF LENGTH).
- MINIMUM COVER 50mm.
- TRIMMER BARS INCLUDED TO CONTROL CRACKING AT INTERFACE OF FOOTPATH AND MANHOLE COVER.

NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH C.50, C.52, C.53, C.54, C.55 AND C.56.

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ARCHITECT
JPW

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PROJECT
**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE
**VERGE WORKS
NOTES AND DETAILS
(SHEET 02 OF 02)**

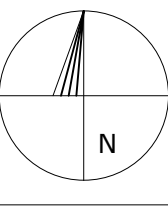
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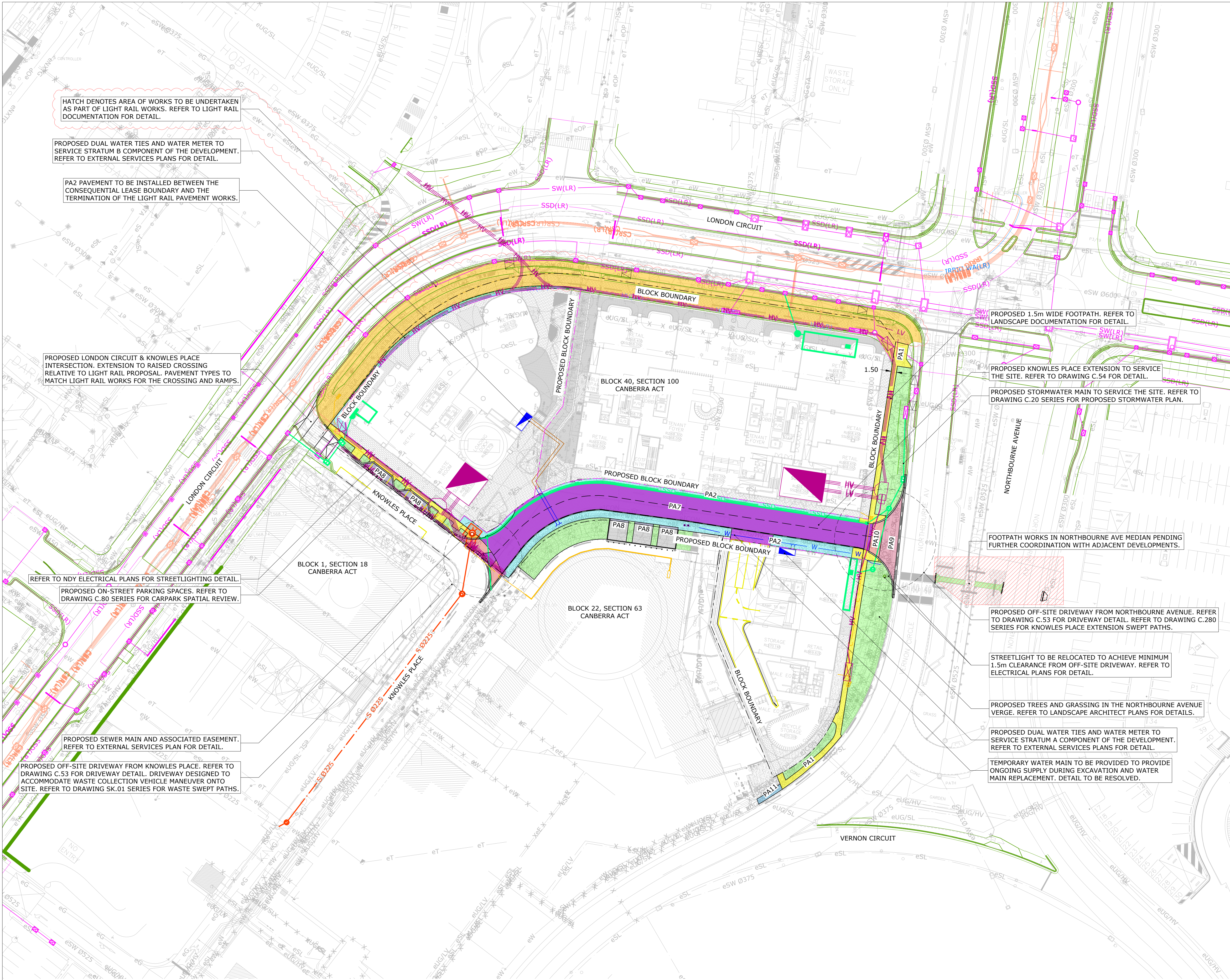
DESIGNED S.GWYNNE DRAFTED Z.LIU

SCALE
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SCALE 1:10 SIZE A1

ISSUE
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3



NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH C.50, C.51, C.53, C.54, C.55 AND C.56.

VERGE WORKS - GENERAL ARRANGEMENT PLAN
1:500 @ A1

DISCIPLINE:

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KEY PLAN

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

VERGE WORKS
GENERAL ARRANGEMENT PLAN

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C.52

DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

SCALE

1:500

SIZE

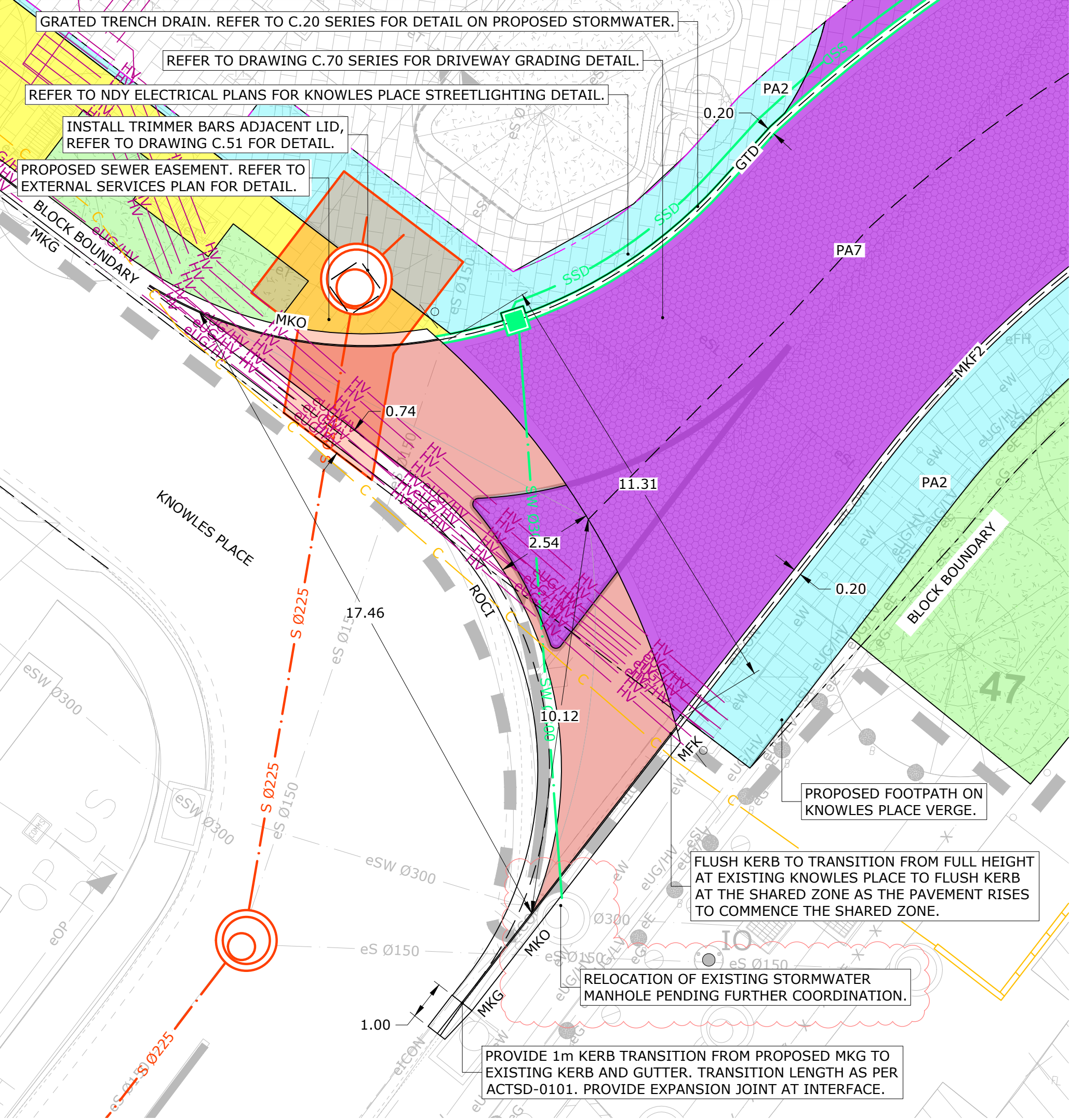
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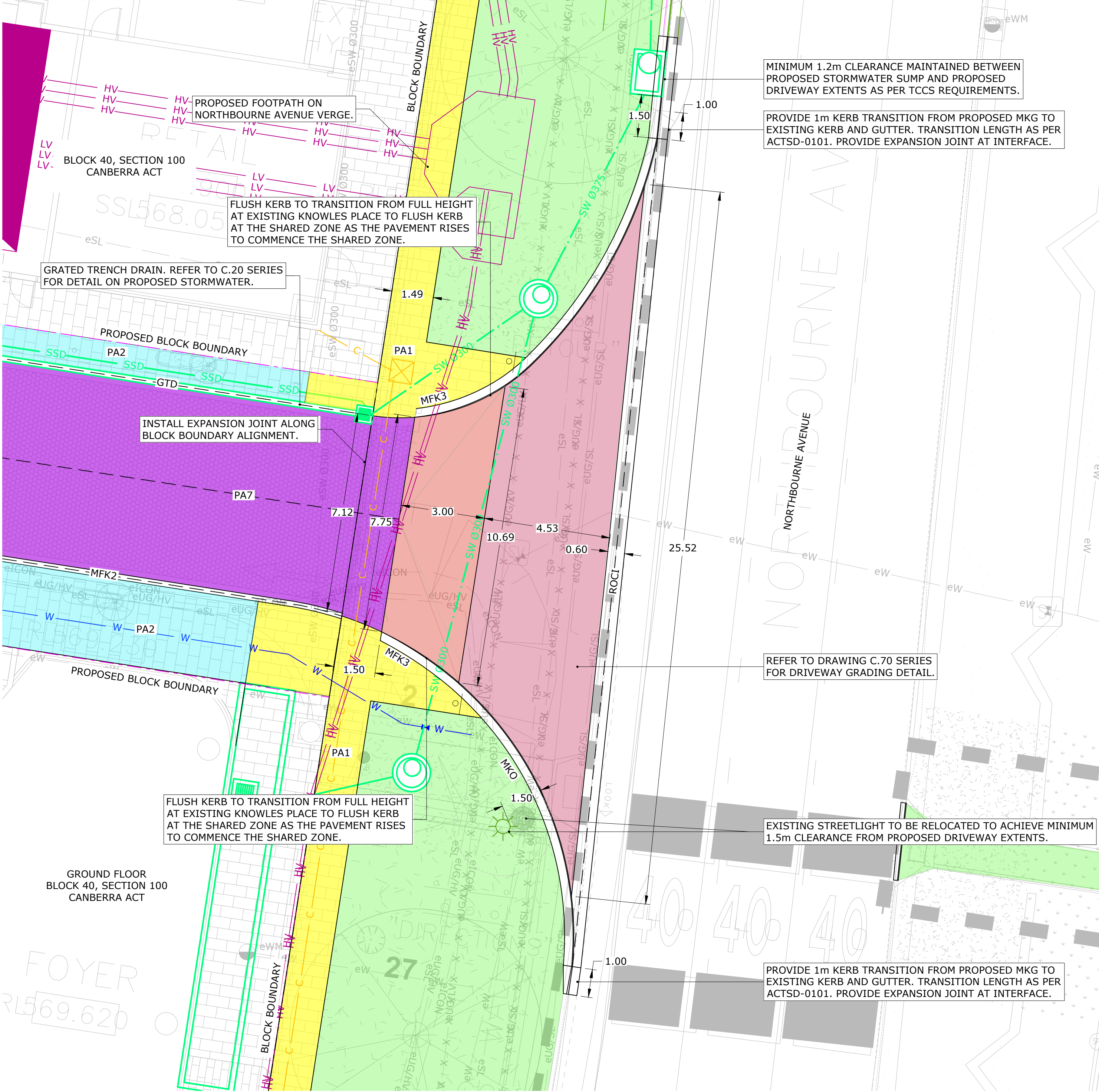
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3



VERGE WORKS - OFFSITE DRIVEWAY PLAN - KNOWLES PLACE
1:100 @ A1



VERGE WORKS - OFFSITE DRIVEWAY PLAN - NORTHBOURNE AVENUE
1:100 @ A1

NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH C.50, C.51, C.52, C.54, C.55 AND C.56.

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

VERGE WORKS
DRIVEWAY PLAN

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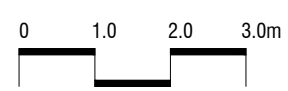
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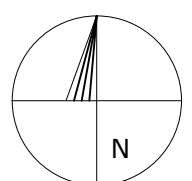
S.GWYNNE

DRAFTED

Z.LIU

SCALE





SCALE

1:100

SIZE

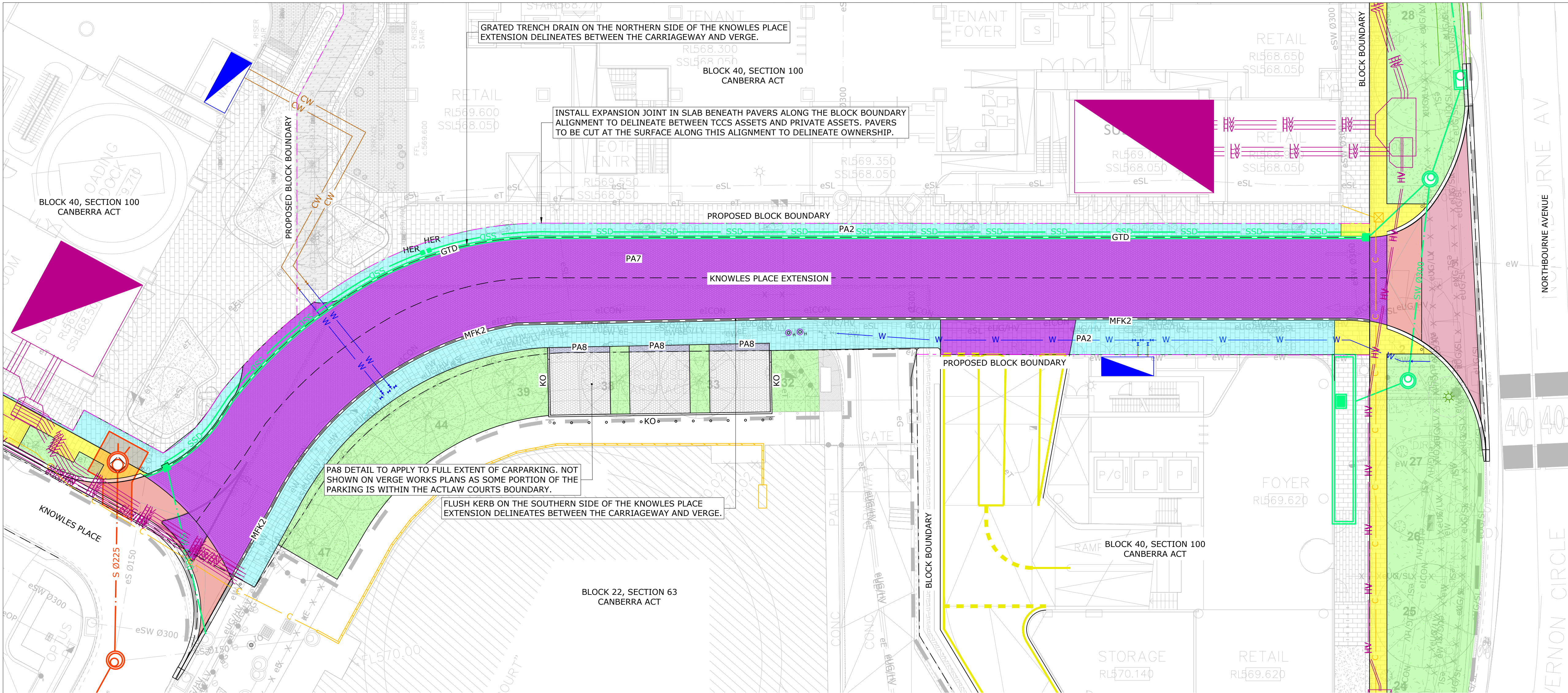
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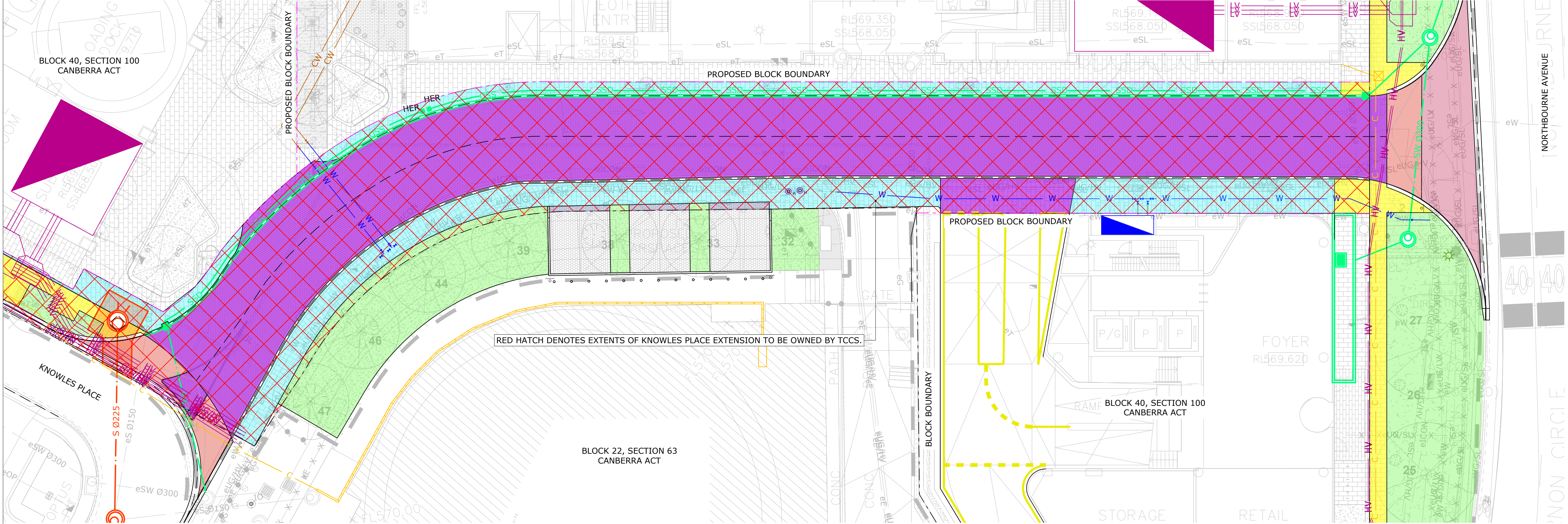
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3



VERGE WORKS - KNOWLES PLACE EXTENSION PLAN
1:200 @ A1



KNOWLES PLACE EXTENSION - TCCS OWNERSHIP EXTENTS
1:200 @ A1

NOTE:
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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

VERGE WORKS
KNOWLES PLACE EXTENSION PLAN

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C.54

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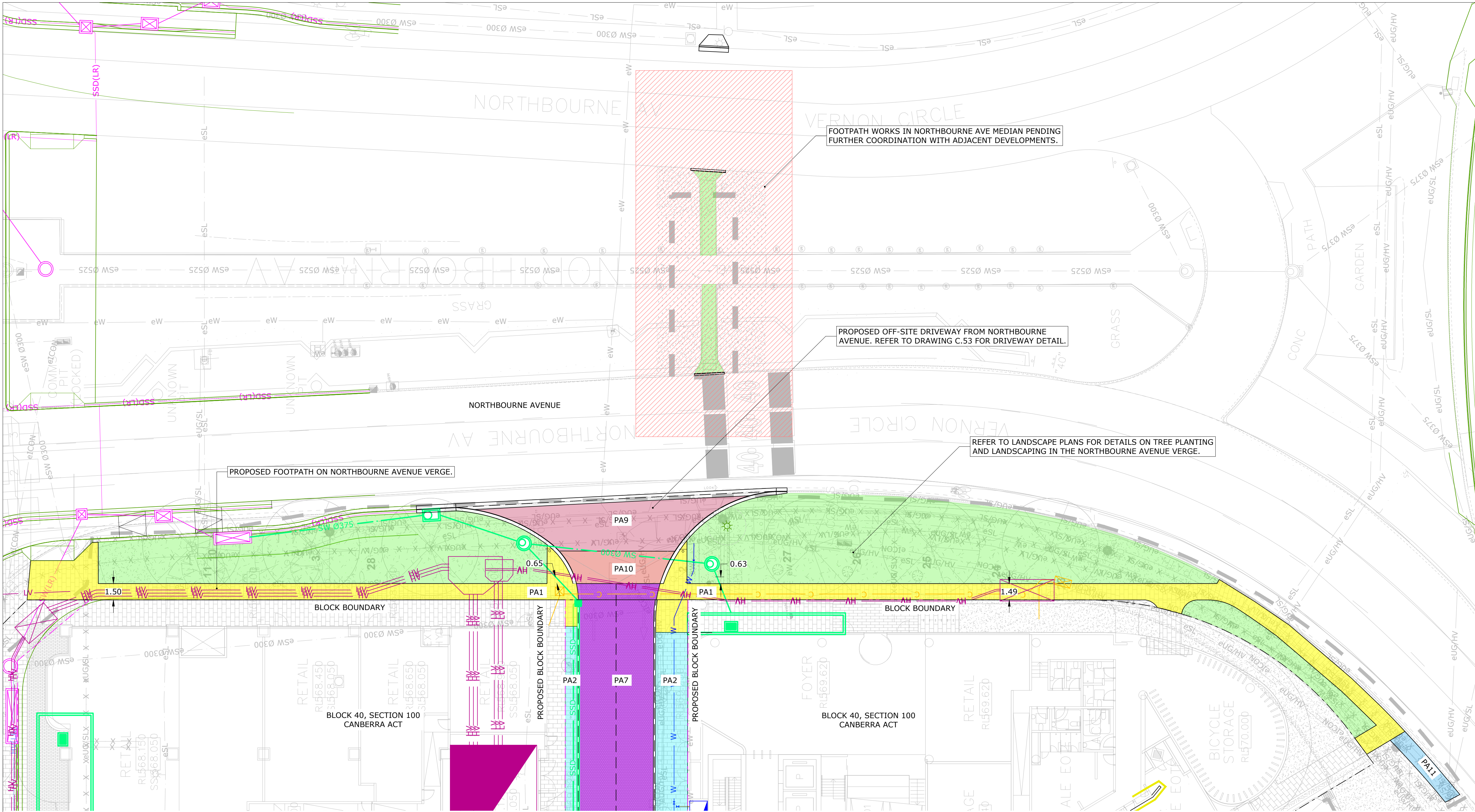
SCALE
0 2.0 4.0 6.0m

SCALE 1:200 SIZE A1

ISSUE

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REVISION
3



VERGE WORKS - NORTHBOURNE AVENUE VERGE PLAN
1:200 @ A1

NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH C.50, C.51, C.52, C.53, C.54 AND C.56.

DISCIPLINE:

CIVIL SERVICES

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ARCHITECT

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

VERGE WORKS
NORTHBOURNE AVENUE
VERGE WORKS PLAN

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DRAWING NUMBER

C.55

DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

SCALE

1:200

SIZE

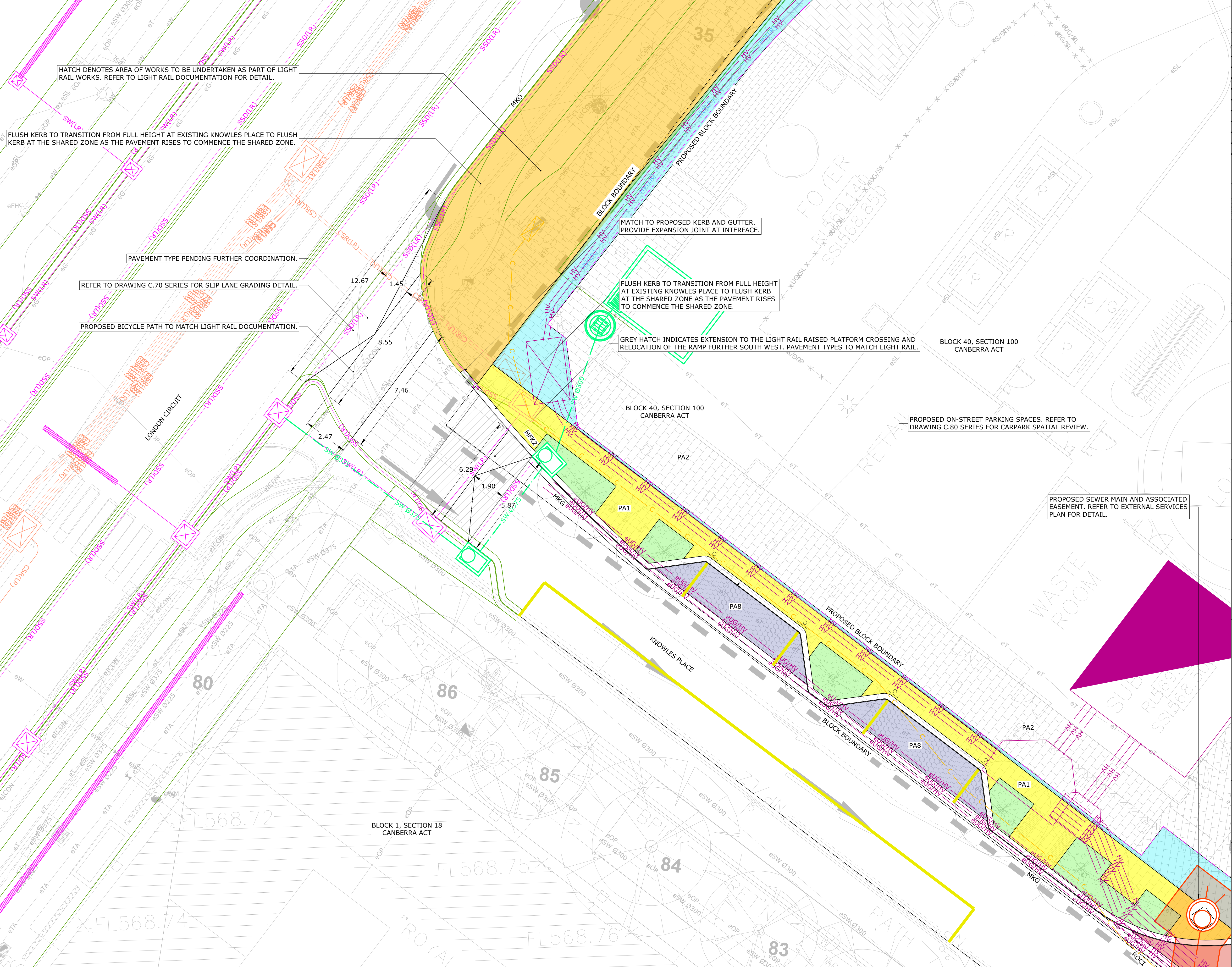
A1

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PROJECT
**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE
**VERGE WORKS
KNOWLES PLACE**

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JOB REFERENCE
VS24086

DRAWING NUMBER
C.56

DESIGNED S.GWYNNE

DRAFTED Z.LIU

SCALE

SCALE 1:100 SIZE A1

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REVISION
3

- GENERAL:**
1. WASTE ENCLOSURES DESIGNED IN ACCORDANCE WITH THE WASTE AND RECYCLING MANAGEMENT CODE FOR THE ACT - 2019.
 2. DRAWING TO BE READ IN CONJUNCTION WITH CIVIL WASTE MANAGEMENT SUITE.
 3. 1100L HOPPERS ARE SHOWN WITH LINE INDICATING 300mm CLEARANCE.
 4. 660L HOPPERS ARE SHOWN WITH LINE INDICATING 300mm CLEARANCE.
 5. SEPARATE SEWER AND WATER CONNECTIONS ARE TO BE PROVIDED TO THE SEPARATE WASTE ENCLOSURES.
 6. SEWER GRATES/COVERS TO WHEEL FRIENDLY (HEEL GUARD OR EQUIVALENT).
 7. STEEL ANGLE PROTECTION TO BE INSTALLED ADJACENT ROLLER DOOR RAILS.
 8. ENCLOSURE FLOORS ARE TO BE GRADED AT MAXIMUM 2% TO FLOOR WASTES.
 9. BINS ARE TO BE CLEARLY IDENTIFIED TO PREVENT CONTAMINATION.
 10. REFER TO DRAWING C.66 FOR WASTE ENCLOSURE DIMENSION PLANS.
 11. HOPPERS TO BE RELOCATED BY BUILDING MANAGEMENT/CONTRACTOR AT TIME OF COLLECTION.

COMMERCIAL PROVISION - STRATUM A - NORTH & SOUTH BUILDINGS:

12. REFER TO DRAWINGS C.66 FOR PROPOSED HOPPER LAYOUTS.
13. THE GENERATION RATES ARE BASED ON THE MORE CONSERVATIVE FIGURES FROM THE TCCS 2019 DCC AND/OR THE CITY OF SYDNEY WASTE MANAGEMENT GUIDELINES, REFER TO 'GREENSTAR' SECTION BELOW FOR FURTHER ELABORATION.
14. FOR STRATUM A (NORTH & SOUTH BUILDINGS) THIS IMPLIES A TOTAL PROVISION FOR COMMERCIAL WASTE, RECYCLING AND FOOD WASTE OF:
 - 8 x 1100L WASTE HOPPERS, COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY);
 - 12 x 1100L RECYCLING HOPPERS, COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY); AND
 - 6 x 660L FOOD WASTE HOPPERS COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY).

COMMERCIAL PROVISION - STRATUM B - WEST BUILDING:

15. REFER TO DRAWINGS C.66 FOR PROPOSED HOPPER LAYOUTS.
16. THE GENERATION RATES ARE BASED ON THE MORE CONSERVATIVE FIGURES FROM THE TCCS 2019 DCC AND/OR THE CITY OF SYDNEY WASTE MANAGEMENT GUIDELINES, REFER TO 'GREENSTAR' SECTION BELOW FOR FURTHER ELABORATION.
17. FOR STRATUM B (WEST BUILDING) THIS IMPLIES A TOTAL PROVISION FOR COMMERCIAL WASTE, RECYCLING AND FOOD WASTE OF:
 - 4 x 1100L WASTE HOPPERS, COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY);
 - 6 x 1100L RECYCLING HOPPERS, COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY); AND
 - 3 x 660L FOOD WASTE HOPPERS COLLECTED THREE TIMES WEEKLY (2 DAYS CAPACITY).

COLLECTION:

18. WASTE, RECYCLING AND FOOD WASTE COLLECTION IS PROPOSED TO BE UNDERTAKEN IMMEDIATELY ADJACENT THE RESPECTIVE WASTE ENCLOSURES (ONE ENCLOSURE PER STRATUM).
 - 18.1. MINIMUM 4.2m VERTICAL CLEARANCE IS TO BE PROVIDED FOR REAR LOADING COLLECTION.
19. REFER TO DRAWING C.66 FOR WASTE ENCLOSURE DIMENSION PLAN.
20. REFER TO DRAWINGS C.67a AND C.67b FOR WASTE COLLECTION VEHICLE SWEEP PATH PLANS.

WASTE ENCLOSURE ACCESS - 2019 DCC REQUIREMENTS:

21. KEYS, SWIPE CARDS AND REMOTES MUST NOT BE USED FOR ACCESS TO THE ENCLOSURE AS THESE CAN EASILY BE LOST OR MISPLACED.
22. ALL WASTE ENCLOSURES MUST BE SECURED BY ELECTRONIC KEYPAD OR COMBINATION LOCK.

WASTE ENCLOSURE ROOF - 2019 DCC REQUIREMENTS:

23. IF THERE IS A ROOF ON THE STORAGE FACILITY, THE ROOF DESIGN MUST ENSURE A MINIMUM CLEAR HEIGHT OF 2.4m TO THE UNDERSIDE OF THE OPEN DOORWAY.
24. RAINWATER MUST BE PREVENTED FROM ENTERING THE SEWERAGE SYSTEM BY PROVIDING ROOFING OR PROTECTION AGAINST WINDBLOWN RAIN AND DIVERTING RUNOFF.

WASTE ENCLOSURE - HYDRAULIC SERVICING - 2019 DCC REQUIREMENTS:

25. SEWER GRATES OR COVERS MUST BE DESIGNED TO PREVENT BIN WHEELS BEING CAUGHT. SLOTTED GRATES ARE NOT PERMITTED.
26. COMMERCIAL, PUBLIC, INDUSTRIAL AND MIXED USE DEVELOPMENTS MUST HAVE A WATER SUPPLY IN THE WASTE ENCLOSURE.
27. WHERE A WATER SUPPLY IS REQUIRED, A COLD TAP MUST BE PROVIDED EITHER IN OR ADJACENT TO THE ENCLOSURE SO THAT THE WASTE CONTAINER CAN BE CLEANED. A PROTECTIVE STEEL GUARD RAIL OR BOLLARD AROUND THE TAP MUST BE PROVIDED TO PREVENT DAMAGE WHEN BINS ARE BEING MOVED.
28. WASTE ENCLOSURES INCLUDING WET WASTE SUCH AS FROM FOOD PREPARATION MUST HAVE A FLOOR GRADE TO A FLOOR WASTE WITH THE TRAP CONNECTED TO THE SEWER. FLOORS TO BE GRADED TO WASTES AT NOT GREATER THAN 1:50(2%).

HOPPER COLLECTION PAD GRADING - 2019 DCC REQUIREMENTS:

29. THE 2.4m x 2.4m HOPPER COLLECTION PAD MUST BE GRADED AT A MAXIMUM OF 1:33 (3%).
30. THERE MUST NOT BE A LIP BETWEEN THE HOPPER COLLECTION PAD AND THE ENCLOSURE.
31. THE HOPPER PAD MUST HAVE A SLIP RESISTANT SURFACE FORMED FROM CONCRETE AND BE FREE FROM SPOON DRAINS, STEPS OR LEVEL CHANGES.

HOPPER RELOCATION ROUTES - 2019 DCC REQUIREMENTS:

32. WHERE HOPPERS REQUIRE MANUAL RELOCATION FROM THE ENCLOSURE TO THE COLLECTION POINT, THE RELOCATION ROUTE IS TO HAVE A MINIMUM CLEAR WIDTH OF 2.4m TO ALLOW FOR SAFE AND EFFICIENT TRANSFER

WASTE ENCLOSURE - OTHER SERVICES - 2019 DCC REQUIREMENTS:

33. NO OTHER SERVICES ARE TO BE LOCATED WITHIN THE WASTE, RECYCLING AND FOOD WASTE STORAGE ENCLOSURE.

WASTE ENCLOSURE CONSTRUCTION - 2019 DCC REQUIREMENTS:

34. FLOOR, WALLS AND CEILINGS MUST BE CONSTRUCTED OF SOLID MATERIAL. I.E NOT RENDERED OR PLASTERED.
35. PROVIDE FLAT SHEET STEEL PROTECTION AROUND THE PERIMETER OF THE ENCLOSURES AND ON ALL COLUMNS. FLAT SHEET STEEL TO BE AT A HEIGHT OF 1.3m AT THE LOWEST POINT AND 1.7m AT THE HIGHEST POINT AS PER ADVICE FROM TCCS 17/05/21 - PENDING RE-CONFIRMATION FROM TCCS.
 - 35.1. FLAT SHEET STEEL TO BE SECURED TO WALLS USING RECESSED SCREWS.
36. FINISHES ARE TO BE SMOOTH AND IMPERVIOUS.
37. ROOMS MAY BE NATURALLY VENTILATED. INTERNALLY LOCATED ROOMS MUST BE MECHANICALLY VENTILATED.
38. DOORWAYS ON ENCLOSURES HOUSING HOPPERS MUST BE SUFFICIENTLY WIDE TO ALLOW FOR EASY ACCESS OF HOPPERS AND MUST BE FITTED WITH GALVANISED STEEL ANGLES ON THE INSIDE AND OUTSIDE TO PROTECT THEM AGAINST DAMAGE CAUSED BY HOPPERS STRIKING DOORS WHEN THEY ARE BEING RELOCATED. BOLLARDS MAY BE USED INSTEAD OF STEEL ANGLES.

WASTE ENCLOSURE - DOORS - 2019 DCC REQUIREMENTS:

39. DOORS MUST BE DURABLE AND SELF CLOSING.
40. WHERE A ROLLER SHUTTER IS USED, IT MUST BE 2.4m WIDE AND HAVE AN UNOBSTRUCTED CLEARANCE OF 2.4m.
41. SIGNAGE MUST BE PROVIDED STATING THAT DOOR IS TO BE KEPT SHUT WHEN NOT IN USE.
42. WHERE BUILDING OCCUPANTS ARE REQUIRED TO HAVE ACCESS, A SEPARATE ACCESSIBLE DOORWAY (0.85m WIDE) MUST BE PROVIDED WITH AN ACCESSIBLE PATH OF TRAVEL TO DEPOSIT WASTE AND RECYCLING IN THE BINS.
43. STEEL ANGLES MUST BE PROVIDED TO PROTECT ROLLER DOOR OPENINGS.

WASTE ENCLOSURE - LIGHTING - 2019 DCC REQUIREMENTS:

44. AN INTERNAL SWITCH MUST BE LOCATED ADJACENT TO THE ENTRY DOOR.

WASTE ENCLOSURE - PROTECTION OF OTHER SERVICES - 2019 DCC REQUIREMENTS:

45. PROTECTION MUST BE PROVIDED TO ALL ELECTRICAL, WATER OR GAS FITTINGS TO PREVENT DAMAGED CAUSED BY MOVING BINS.

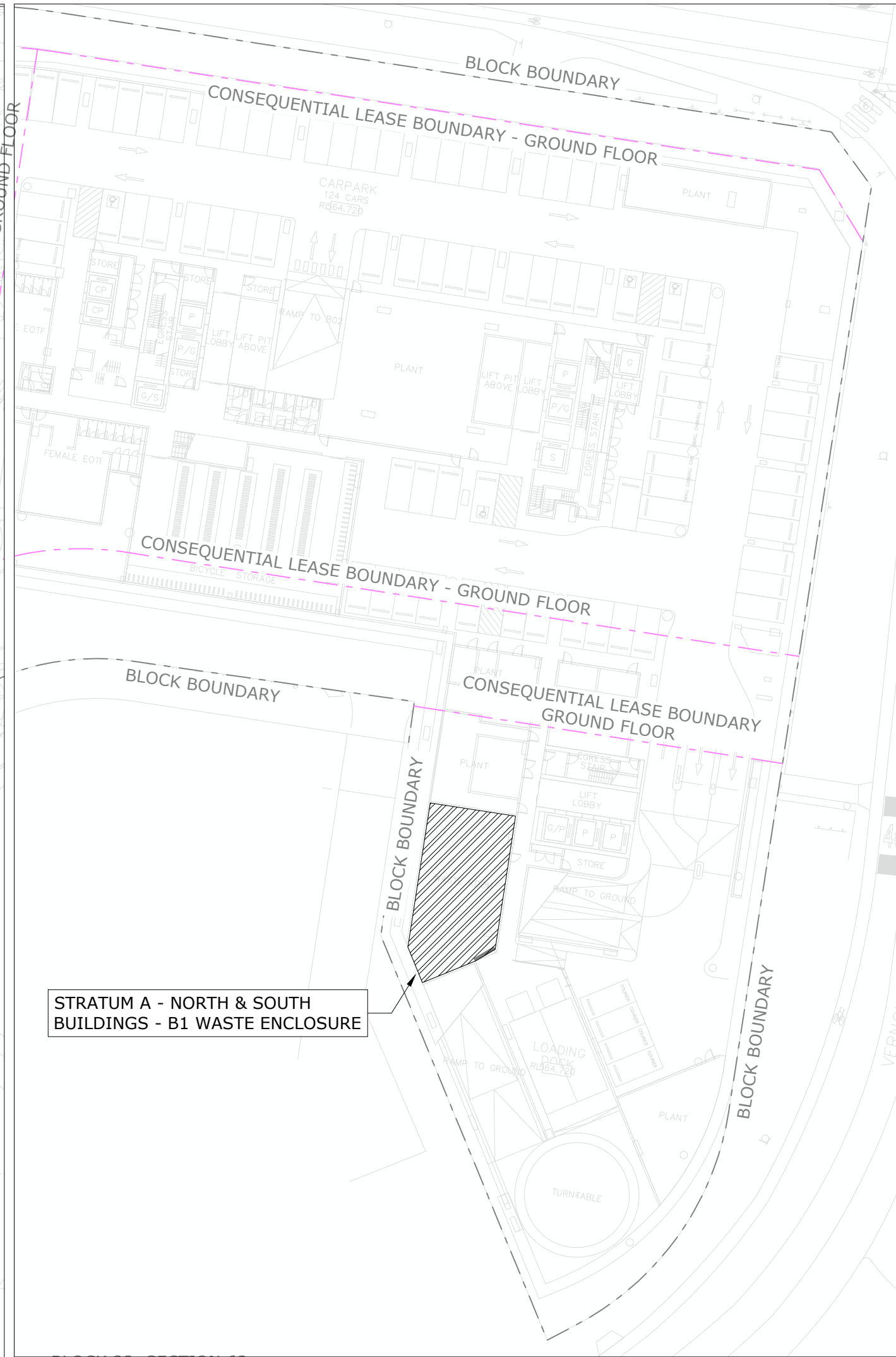
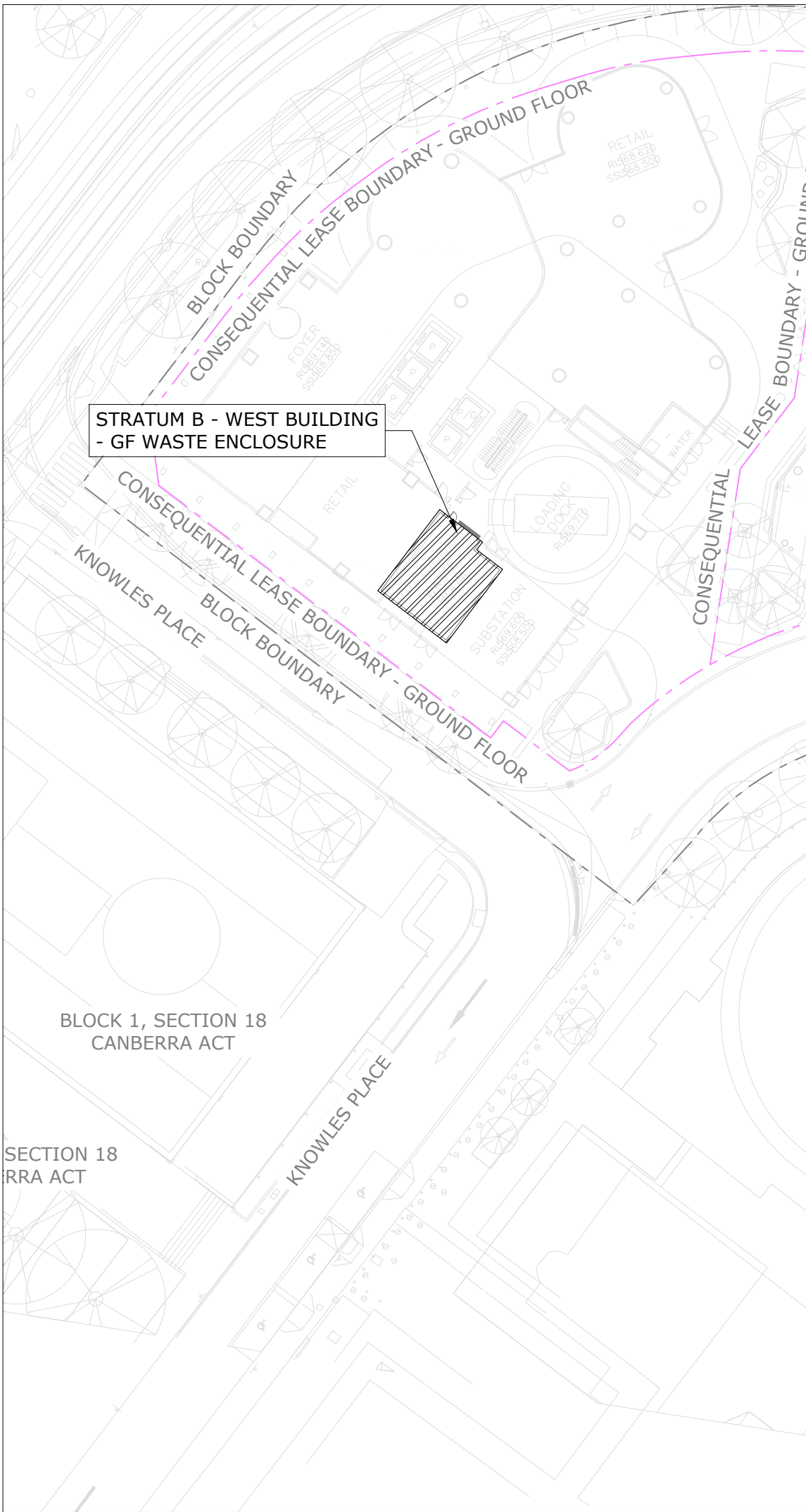
WASTE ENCLOSURE - SIGNAGE - 2019 DCC REQUIREMENTS:

46. IF FLOOR WASTE OR SEWER CONNECTION IS NOT PROVIDED, A SIGN MUST BE PROVIDED WITHIN THE ENCLOSURE STATING THAT 'NO WATER FROM WASHING OR WASTE AND RECYCLING CONTAINERS MAY BE DISCHARGED INTO THE STORMWATER SYSTEM. CONTRAVENTION OF THIS REQUIREMENT IS AN OFFENCE UNDER THE *ENVIRONMENT PROTECTION ACT 1997*'. THE SIGN SHALL BE AT LEAST 0.75m x 0.5m WITH LETTERS AT LEAST 20mm HIGH AND MAINTAINED IN GOOD ORDER.

GREENSTAR:

47. GREENSTAR REQUIRES THE DEVELOPMENT TO HAVE A MINIMUM OF THREE WASTE STREAMS INCLUDING GENERAL WASTE, RECYCLING AND ONE ADDITIONAL WASTE STREAM. FOR THIS DEVELOPMENT, THE ADDITIONAL WASTE STREAM PROPOSED IS FOOD WASTE.
48. THE 2019 DCC ONLY PROVIDES GENERATION RATES FOR WASTE AND RECYCLING, THEREFORE THE CITY OF SYDNEY (COS) GUIDELINES TO WASTE MANAGEMENT HAVE BEEN USED FOR THE THIRD WASTE STREAM (FOOD WASTE). A MIX OF THE TWO HAS BEEN APPLIED CONSERVATIVELY FOR WASTE AND RECYCLING TO ALLOW FOR A CONSERVATIVE SPATIAL DESIGN.
49. THE HIGHER OF THE 2019 DCC AND COS WASTE GUIDELINES HAVE BEEN APPLIED TO EACH WASTE STREAM AS NOTED BELOW:
 - RETAIL:
 - WASTE - 2019 DCC
 - RECYCLING - COS
 - FOOD WASTE - COS
 - OFFICE:
 - WASTE - 2019 DCC
 - RECYCLING - 2019 DCC
 - FOOD WASTE - COS

THE ABOVE APPLIES TO BOTH STRATUMS.



KEY PLAN

1:500

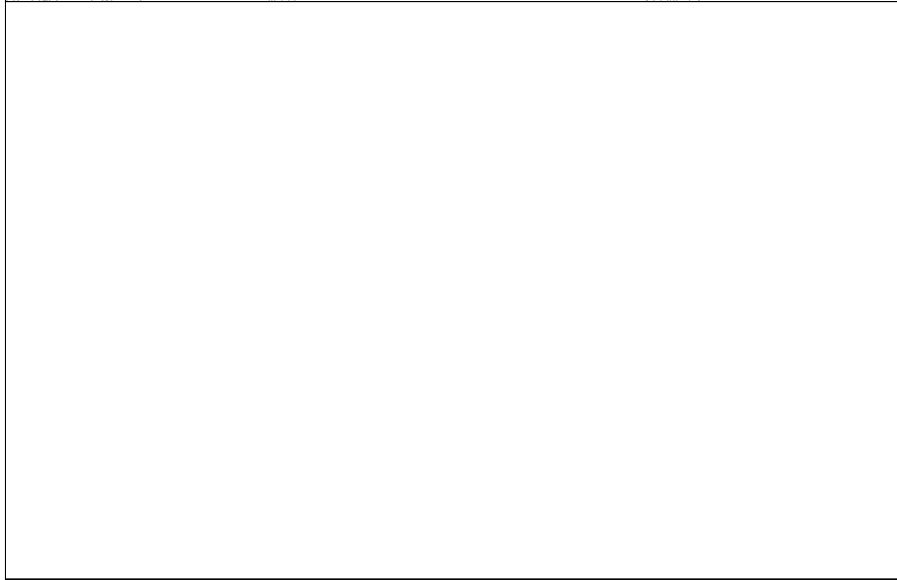
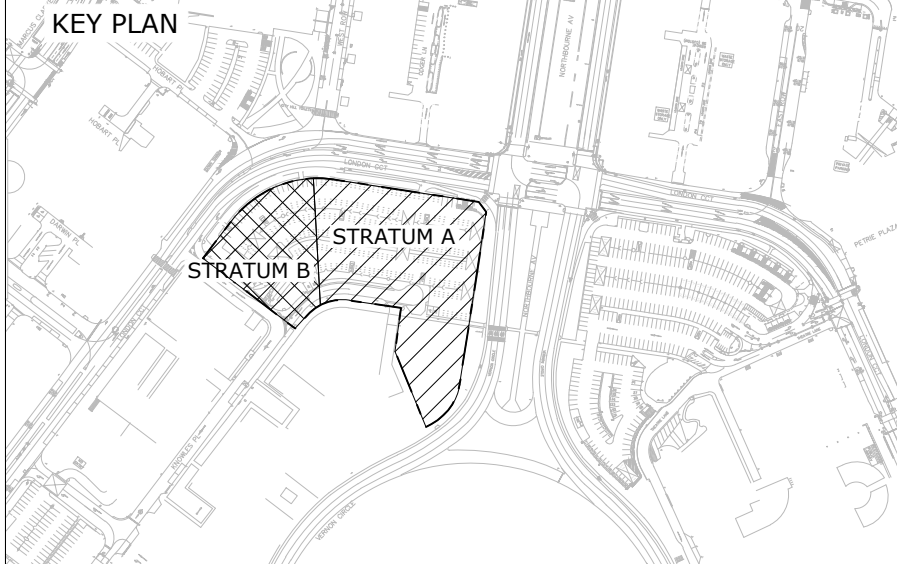
DISCIPLINE:

CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	S.S.	S.G.	28/01/25
2	PRELIMINARY	A.N.	S.G.	26/03/25
3	PRELIMINARY	A.N.	S.G.	04/04/25

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MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006
Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
Fax 02 6299 2316 Web vdsol.com.au

ARCHITECT

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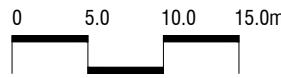
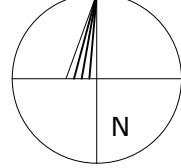


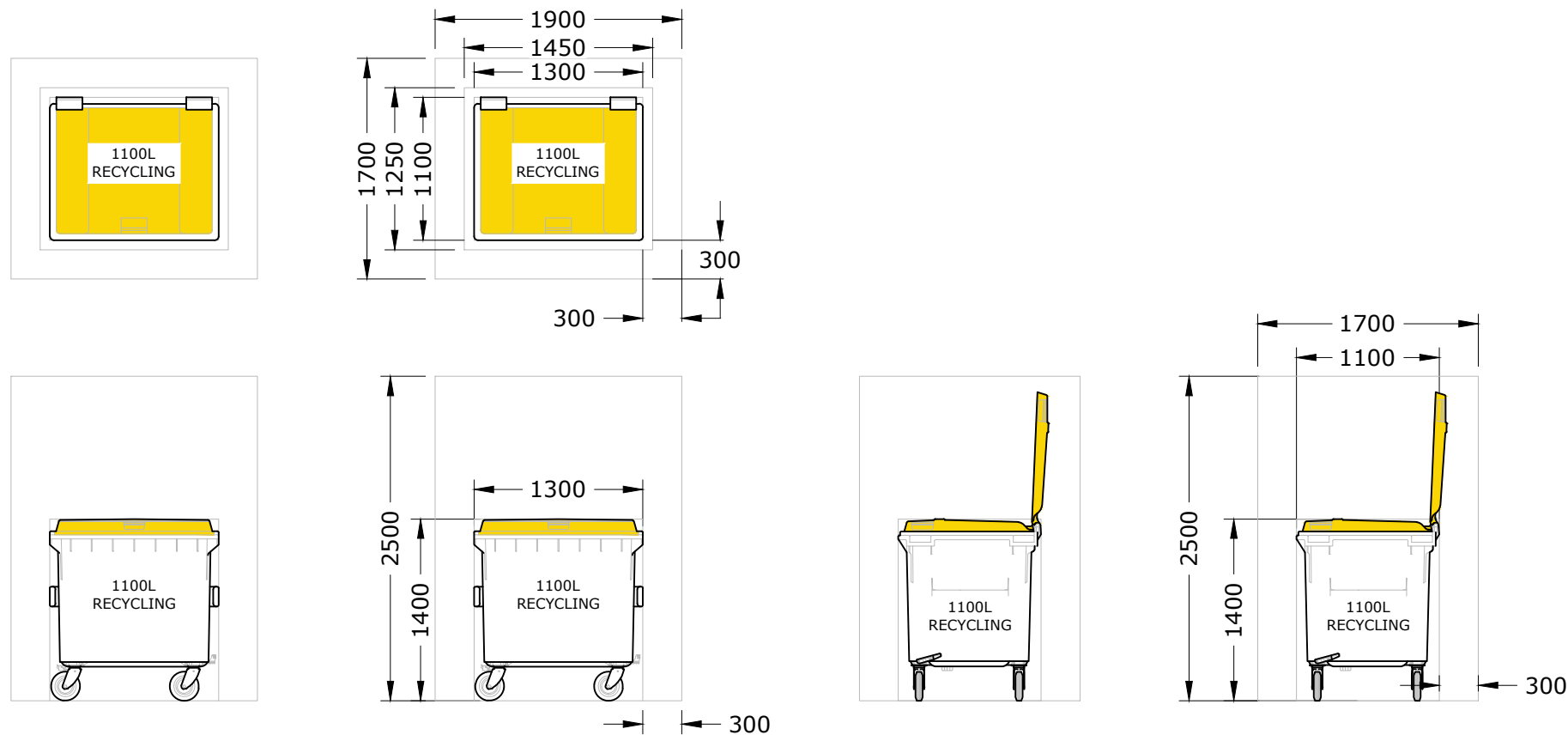
PROJECT

**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE

**WASTE MANAGEMENT
NOTES**

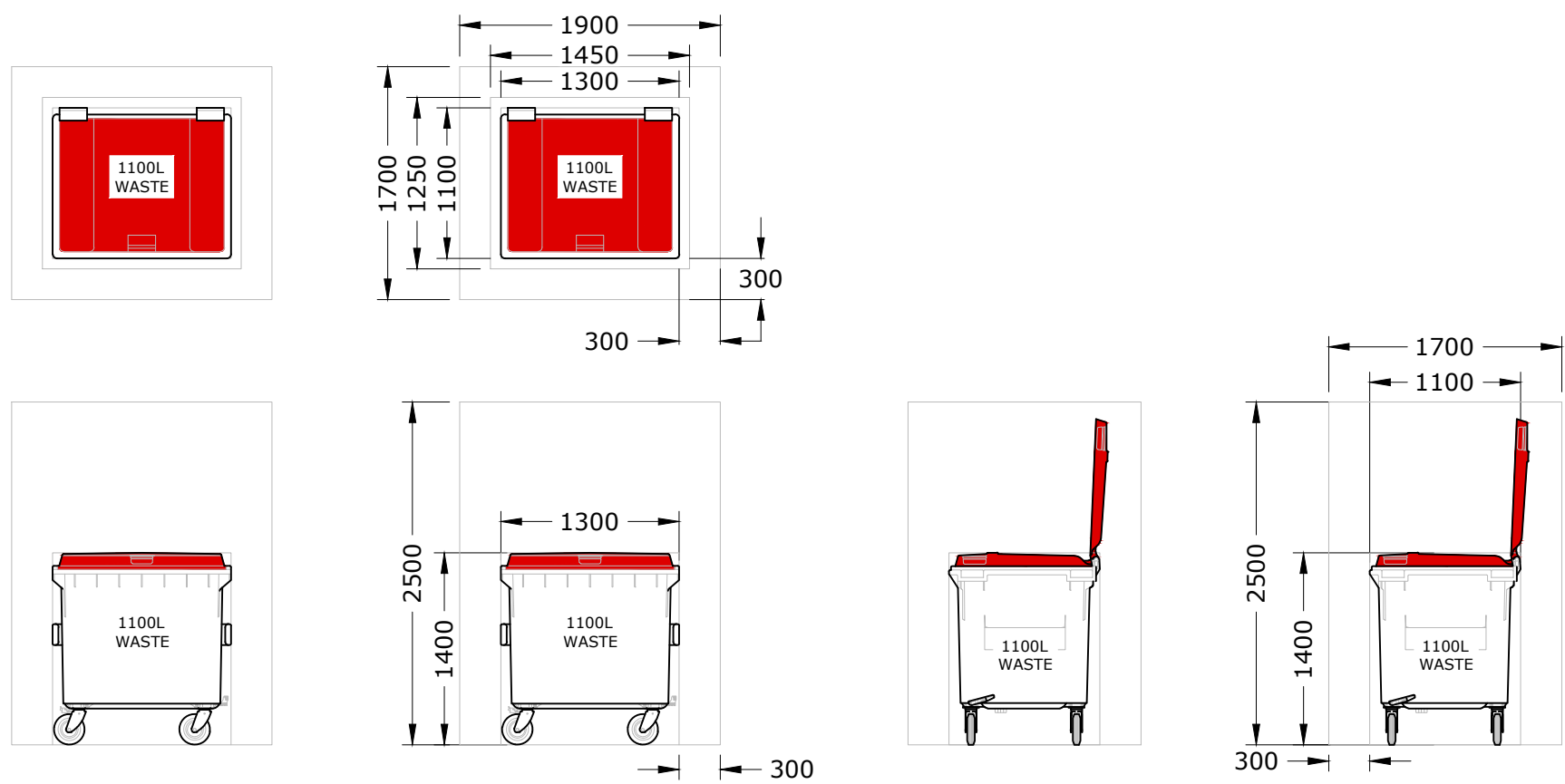
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DESIGNED S.SCHUPFER	DRAFTED S.SCHUPFER
SCALE 	 REVISION 3
SCALE 1:500 SIZE A1	
ISSUE NOT FOR CONSTRUCTION	



- DIMENSIONS BASED ON THE 2019 DCC (1.40m H x 1.10m D x 1.3m W)
- 75mm CLEARANCE APPLIED AROUND HOPPER FOR RETROSPECTIVE APPLICATION TO PROJECTS UNDER THE PROVISIONS OF THE 2016 DCC.
- 300mm CLEARANCE SHOWN FOR SPACING OF HOPPERS AS PER 2019 DCC.
- OPEN HEIGHT BASED ON CLOSED HEIGHT PLUS DEPTH

1100L RECYCLING HOPPER

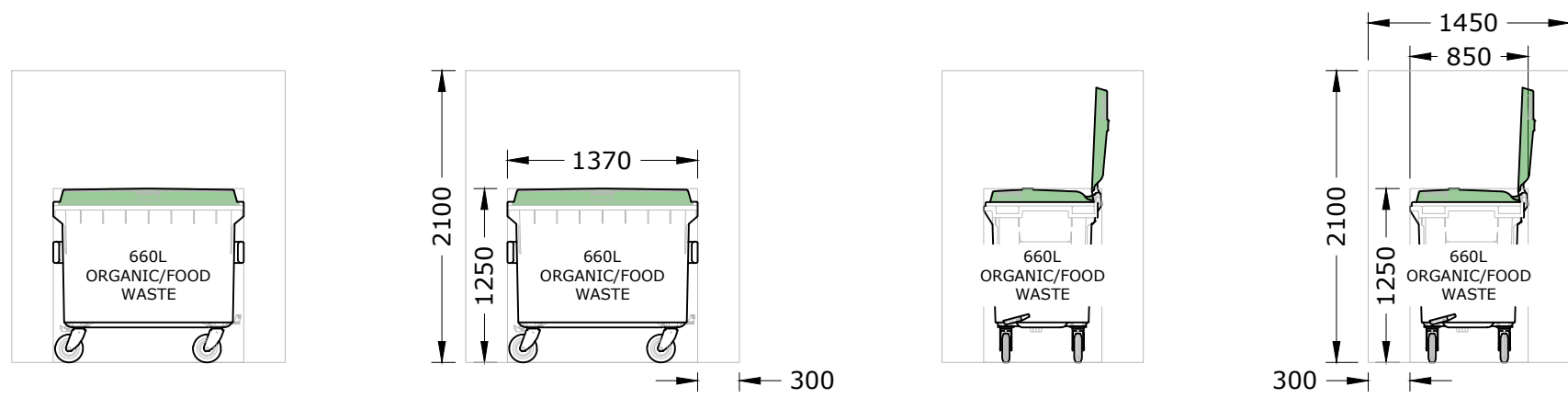
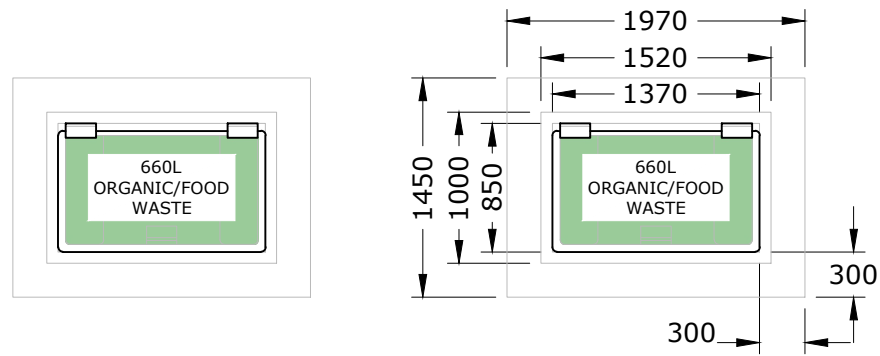
SCALE 1:50



- DIMENSIONS BASED ON THE 2019 DCC (1.40m H x 1.10m D x 1.3m W)
- 75mm CLEARANCE APPLIED AROUND HOPPER FOR RETROSPECTIVE APPLICATION TO PROJECTS UNDER THE PROVISIONS OF THE 2016 DCC.
- 300mm CLEARANCE SHOWN FOR SPACING OF HOPPERS AS PER 2019 DCC.
- OPEN HEIGHT BASED ON CLOSED HEIGHT PLUS DEPTH

1100L WASTE HOPPER

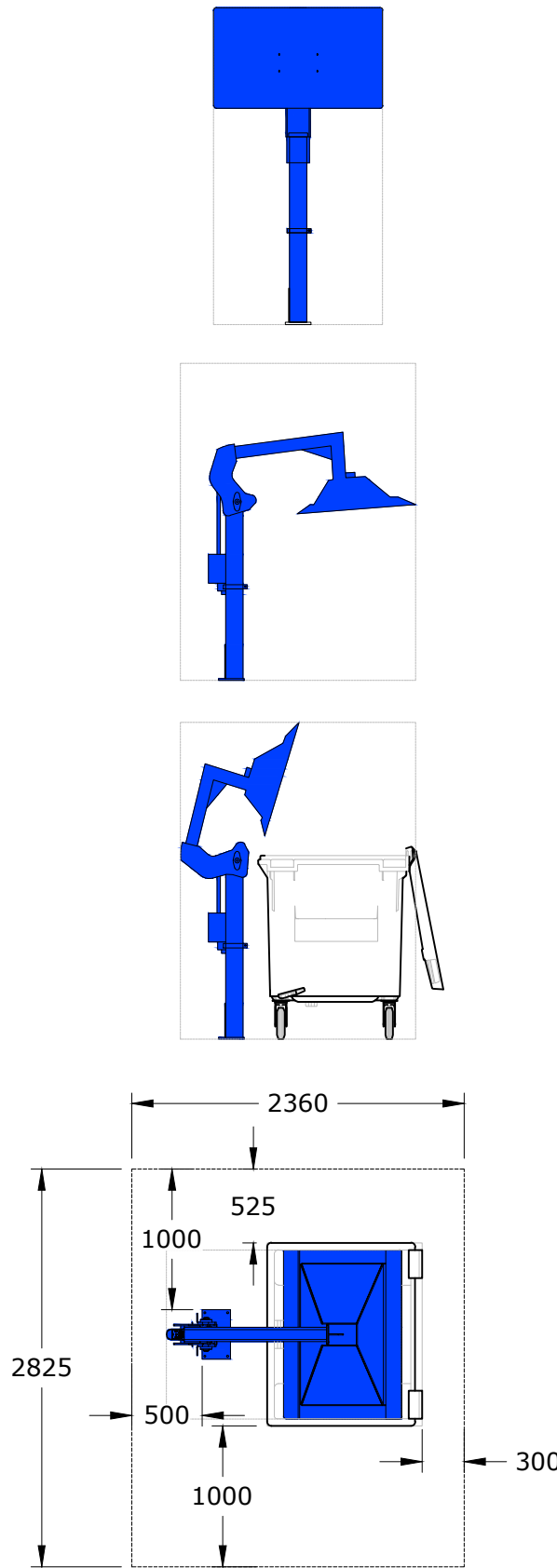
SCALE 1:50



- DIMENSIONS BASED ON THE CITY OF SYDNEY GUIDELINES FOR WASTE MANAGEMENT IN NEW DEVELOPMENTS (1.25M H X 0.85M D X 1.37M W)
- 300MM CLEARANCE SHOWN FOR SPACING OF HOPPERS AS PER 2019 DCC NOTING THERE DOES NOT APPEAR TO BE A CLEARANCE BETWEEN BIN REQUIREMENT IN THE CITY OF SYDNEY GUIDELINES.
- OPEN HEIGHT BASED ON CLOSED HEIGHT PLUS DEPTH

660L FOOD/ORGANIC WASTE HOPPER

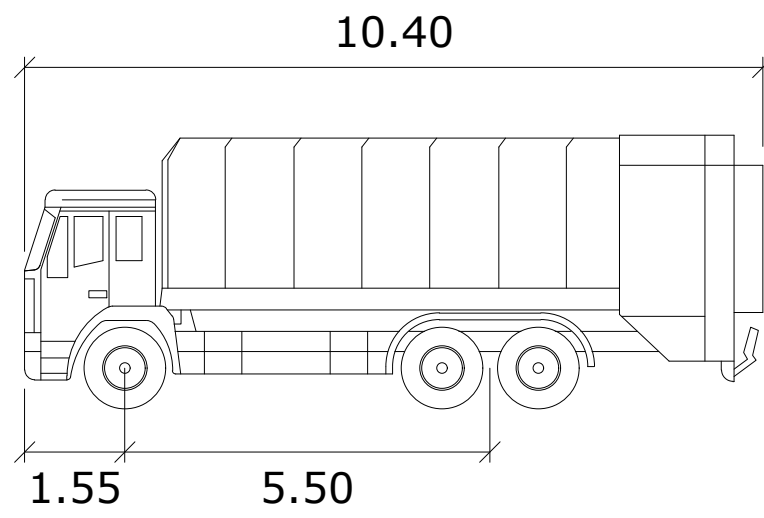
SCALE 1:50



- DETAIL IS APPROXIMATE BASED ON INFORMATION PROVIDED FROM WASTECH, NO SHOP DRAWINGS WERE AVAILABLE.
- SIZE AS PER THE WASTECH INFORMATION IS 1670x1200x2250 (LxWxH).
- POWER REQUIREMENT = 1 x 240v T0a GPO - LOCATED ON WALL DIRECTLY BEHIND BIN PRESS.
- CONTROL BOX TO BE MOUNTED ON THE WALL/BOLLARD ADJACENT THE BIN PRESS TO SUIT ENCLOSURE LAYOUT.

WASTECH BINPRESS

SCALE 1:50



ACT Rear Loader

meters

Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 36.6

DISCIPLINE:

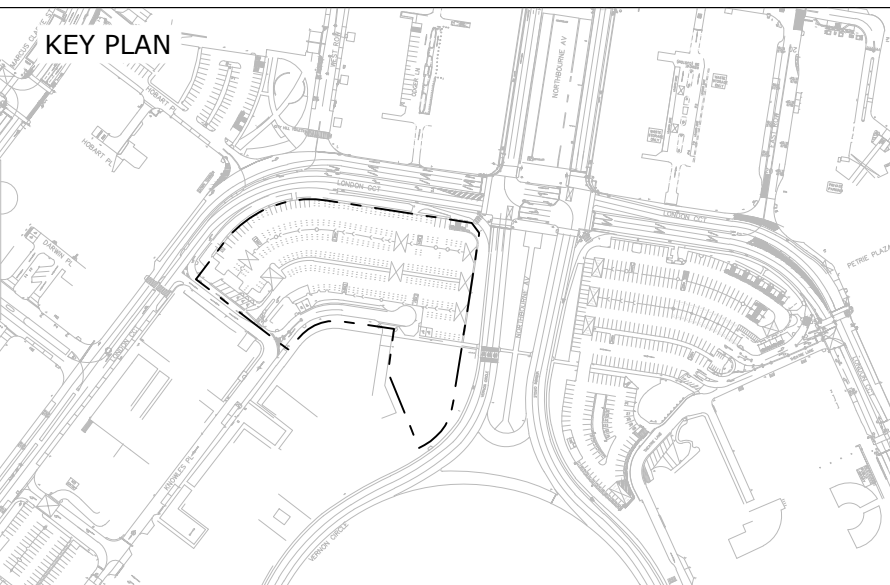
CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
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KEY PLAN



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Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
Fax 02 6299 2316 Web vdsol.com.au ACN 151 340 788

ARCHITECT

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
DETAILS

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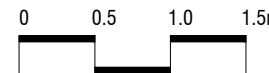
DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE



SCALE

1:50

SIZE

A1

ISSUE

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REVISION

3

Block 40, Section 100 City ACT Waste Generation Estimation Calculations - Commercial										
Block 40, Section 100 City - Stratum a (North and South Buildings) - Waste Generation Estimation										
Commercial Space (Site wide)	GFA(m ²)	Waste to Landfill (L/day/100m ²)	Recycling (L/day/100m ²)	Food Waste (L/day/100m ²)	Waste to Landfill (L/week)	Recycling (L/week)	Food Waste (L/week)	Notes		
Retail - Ground Floor (North Building)	1504	50	200	5	3760	15040.00	376.00	2019 DCC Rates for Retail applied to Waste. COS Rates for Retail applied to Food Waste & Recycling. Assumed 5 days/week operation.		
Office - Level 1 (North Building)	2086	20	25	5	2086	2607.50	521.50	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 2 (North Building)	3679	20	25	5	3679	4598.75	919.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 3 (North Building)	3680	20	25	5	3680	4600.00	920.00	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 4 (North Building)	3680	20	25	5	3680	4600.00	920.00	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 5 (North Building)	3680	20	25	5	3680	4600.00	920.00	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 6 (North Building)	3876	20	25	5	3876	4845.00	969.00	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 7 (North Building)	1346	20	25	5	1346	1682.50	336.50	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 8 (North Building)	1829	20	25	5	1829	2286.25	457.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 9 (North Building)	1829	20	25	5	1829	2286.25	457.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 10 (North Building)	1829	20	25	5	1829	2286.25	457.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 11 (North Building)	1623	20	25	5	1623	2028.75	405.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 1 (South Building)	1070	20	25	5	1070	1337.50	267.50	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 2 (South Building)	1607	20	25	5	1607	2008.75	401.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 3 (South Building)	1607	20	25	5	1607	2008.75	401.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 4 (South Building)	1607	20	25	5	1607	2008.75	401.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 5 (South Building)	1607	20	25	5	1607	2008.75	401.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Office - Level 6 (South Building)	1597	20	25	5	1597	1996.25	399.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.		
Total Commercial GFA (m2):	39736				Total Commercial Generation:	41992	62830	9934		
					Waste to Landfill (L/week)	Recycling (L/week)	Food Waste (L/week)	Notes		
					Total Commercial Generation(L/Week)	41992	62830	9934	Total Generation of commercial Waste and Recycling/week.	
					Bin Press Compaction Ratio (X:1)	2	2	0	2:1 compaction ratio used for In-Bin Compactors as per maximum compaction ratio outlined in the 2019 DCC.	
					Total Compacted Generation (L/Week)	20996	31415	9934	Total Generation of Compacted Waste and Recycling/week.	
					Total Compacted Daily Generation (L/Day)	4199.20	6283.00	1986.80	Total Generation of Compacted Waste and Recycling/day.	
Proposed Waste Collection Strategy - Commercial Operator					Total compacted Generation at 2 days (L/Collection)	8398.40	12566.00	3973.60	2 days Generation of Compacted Waste and Recycling. Collection every 2 days.	
									Commentary on Estimation/Provision	
Hopper Size and Collection Frequency					Waste	Recycling	Food Waste	Notes		
or 1100L Hoppers (1 Day Capacity)					3.8			4 x 1100L hoppers proposed to service 1 day capacity of waste generation. Collection by commercial operator.		
or 1100L Hoppers (2 Day Capacity)					7.6			8 x 1100L hoppers proposed to service 2 days capacity of waste generation. Collection by commercial operator.		
or 1100L Hoppers (1 Day Capacity)						5.7		5 x 1100L hoppers proposed to service 1 days capacity of recycling generation. Collection by commercial operator.		
or 1100L Hoppers (2 Day Capacity)						11.4		12 x 1100L hoppers proposed to service 2 days capacity of recycling generation. Collection by commercial operator.		
or 660L Hoppers (1 Day Capacity)							3.0	3 x 660L hoppers proposed to service 1 days capacity of food waste generation. Collection by commercial operator.		
or 660L Hoppers (2 Day Capacity)							6.0	6 x 660L hoppers proposed to service 2 days capacity of food waste generation. Collection by commercial operator.		

WASTE GENERATION CALCULATIONS - STRATUM A - NORTH AND SOUTH BUILDING

Block 40, Section 100 City ACT Waste Generation Estimation Calculations - Commercial									
Block 40, Section 100 City - Stratum b (West Building) - Waste Generation Estimation									
Commercial Space (Site wide)	GFA(m ²)	Waste to Landfill (L/day/100m ²)	Recycling (L/day/100m ³)	Food Waste (L/day/100m ²)	Waste to Landfill (L/week)	Recycling (L/week)	Food Waste (L/week)	Notes	
Retail - Ground Floor (West Building)	652	50	200	5	2282	9128.00	228.20	2019 DCC Rates for Retail applied to Waste. COS Rates for Retail applied to Food Waste & Recycling. Assumed 5 days/week operation.	
Office - Level 1 (West Building)	914	20	25	5	914	1142.50	228.50	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 2 (West Building)	1927	20	25	5	1927	2408.75	481.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 3 (West Building)	2029	20	25	5	2029	2536.25	507.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 4 (West Building)	2029	20	25	5	2029	2536.25	507.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 5 (West Building)	2029	20	25	5	2029	2536.25	507.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 6 (West Building)	2029	20	25	5	2029	2536.25	507.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 7 (West Building)	1011	20	25	5	1011	1263.75	252.75	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 8 (West Building)	1721	20	25	5	1721	2151.25	430.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 9 (West Building)	1721	20	25	5	1721	2151.25	430.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 10 (West Building)	1721	20	25	5	1721	2151.25	430.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Office - Level 11 (West Building)	1721	20	25	5	1721	2151.25	430.25	2019 DCC Rates for Offices applied to Waste & Recycling. COS Rates for Offices applied for Food Waste. Assumed 5 days/week operation.	
Total Commercial GFA (m2):	19504				Total Commercial Generation:	21134	32693	4941.2	
					Waste to Landfill (L/week)	21134	32693	4941.2	Notes
					Total Commercial Generation(L/Week)	21134	32693	4941.2	Total Generation of commercial Waste and Recycling/week.
					Bin Press Compaction Ratio (X:1)	2	2	0	2:1 compaction ratio used for In-Bin Compactors as per maximum compaction ratio outlined in the 2019 DCC.
					Total Compacted Generation (L/Week)	10567	16346.5	4941.2	Total Generation of Compacted Waste and Recycling/week.
					Total Compacted Daily Generation (L/Day)	2113.40	3269.30	988.24	Total Generation of Compacted Waste and Recycling/day.
					Total compacted Generation at 2 days (L/Collection)	4226.80	6538.60	1976.48	2 days Generation of Compacted Waste and Recycling. Collection every 2 days.
Proposed Waste Collection Strategy - Commercial Operator					Hopper Size and Collection Frequency		No. Of Hoppers Required		Commentary on Estimation/Provision
					Waste	1.9			Notes
					or 1100L Hoppers (2 Day Capacity)	3.8			2 x 1100L hoppers proposed to service 2 days capacity of Waste Generation. Collection by commercial operator.
					or 1100L Hoppers (1 Day Capacity)		3.0		4 x 1100L hoppers proposed to service 2 days capacity of Waste Generation. Collection by commercial operator.
					or 1100L Hoppers (2 Day Capacity)		5.9		3 x 1100L hoppers proposed to service 1 days capacity of recycling generation. Collection by commercial operator.
					or 660L Hoppers (1 Day Capacity)			1.5	6 x 1100L hoppers proposed to service 2 days capacity of recycling generation. Collection by commercial operator.
					or 660L Hoppers (2 Day Capacity)			3.0	2 x 660L hoppers proposed to service 1 days capacity of food waste generation. Collection by commercial operator.
									3 x 660L hoppers proposed to service 2 days capacity of food waste generation. Collection by commercial operator.

WASTE GENERATION CALCULATIONS - STRATUM B - WEST BUILDING

DISCIPLINE:

CIVIL SERVICES

REV

ISSUE

CHK'D

APP'D

DATE

1

PRELIMINARY

S.S.

S.G.

28/01/25

2

PRELIMINARY

A.N.

S.G.

26/03/25

3

PRELIMINARY

A.N.

S.G.

04/04/25

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KEY PLAN

Vital Design Solutions

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Tel 02 6299 2765 Email admin@vdsol.com.au ABN 45 151 340 788
Fax 02 6299 2316 Web vdsol.com.au

ARCHITECT

JPW

CLIENT

ConstructionControl

PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
WASTE GENERATION
CALCULATIONS

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VS24086

DRAWING NUMBER

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DESIGNED

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S.SCHUPFER

SCALE

NTS

SCALE NTS

SIZE A1

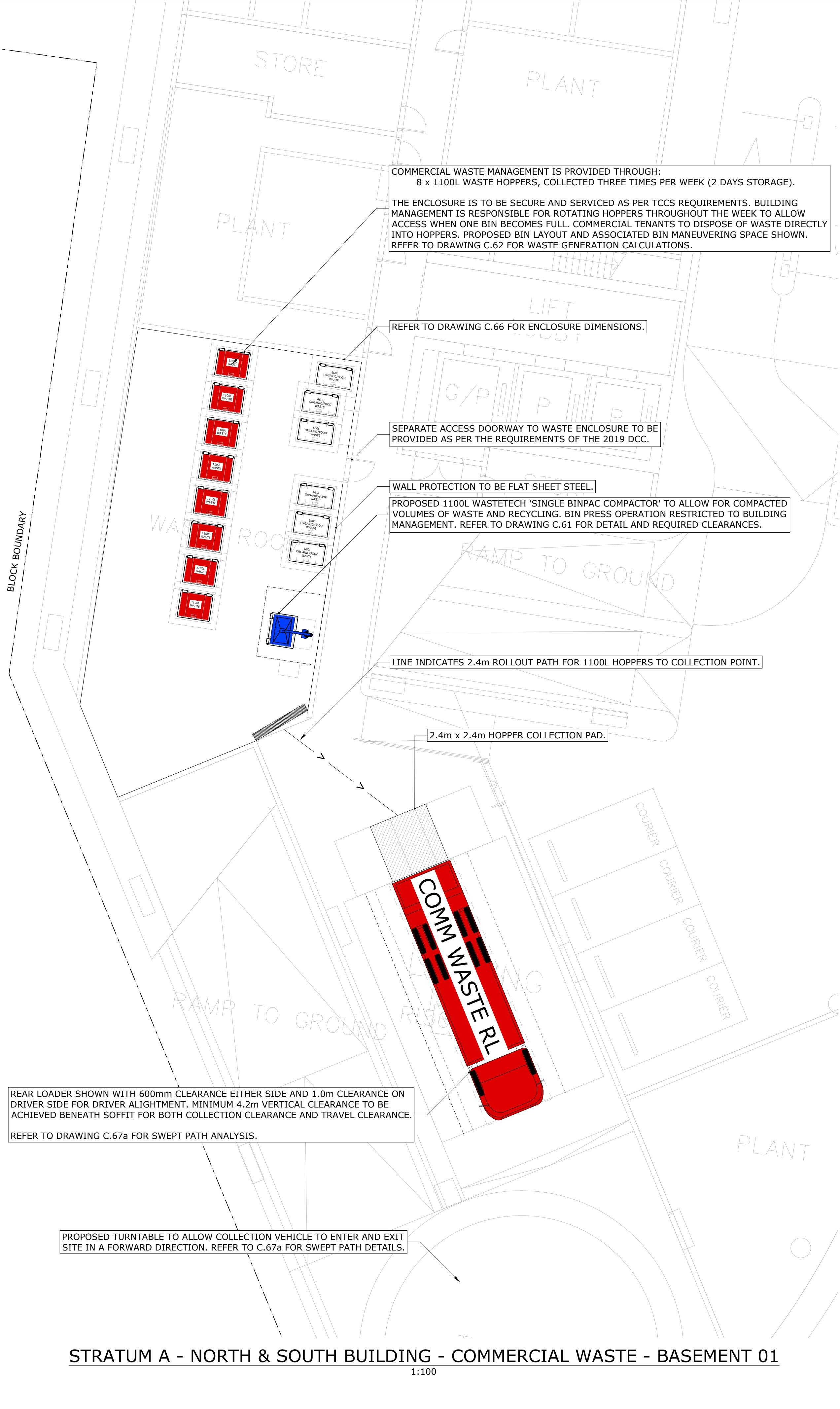
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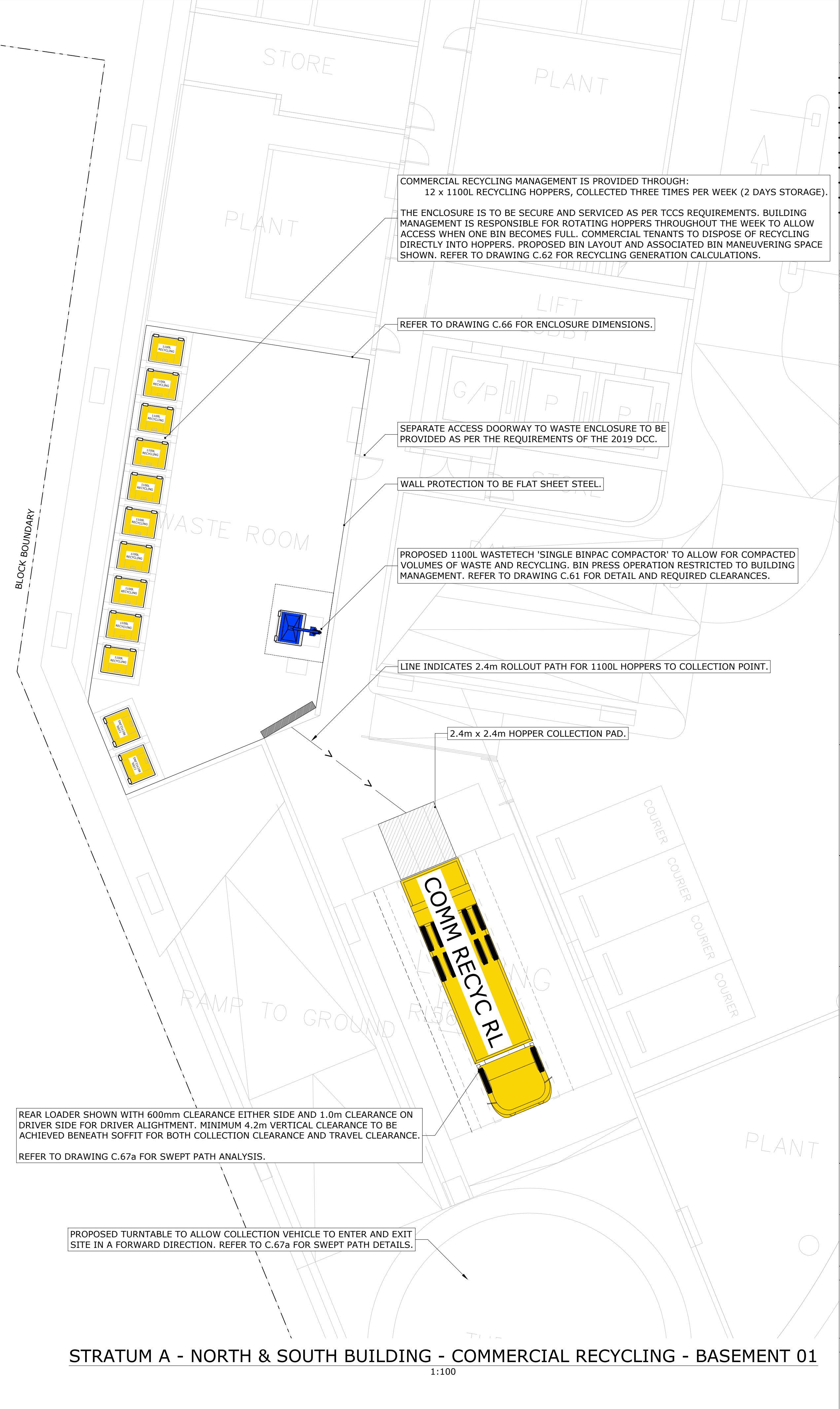
REVISION

3



STRATUM A - NORTH & SOUTH BUILDING - COMMERCIAL WASTE - BASEMENT 01

1:100



STRATUM A - NORTH & SOUTH BUILDING - COMMERCIAL RECYCLING - BASEMENT 01

1:100

DISCIPLINE:

CIVIL SERVICES

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1	PRELIMINARY	S.S.	S.G.	28/01/25
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3	PRELIMINARY	A.N.	S.G.	04/04/25

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KEY PLAN

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Tel 02 6299 2765 Email admin@vdsol.com.au Web vdsol.com.au
Fax 02 6299 2316 ABN 45 151 340 788 ACN 151 340 788

ARCHITECT

CLIENT

PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
COMMERCIAL WASTE & RECYCLING
MANAGEMENT - STRATUM A

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.63a

DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE

SCALE

1:100

SIZE

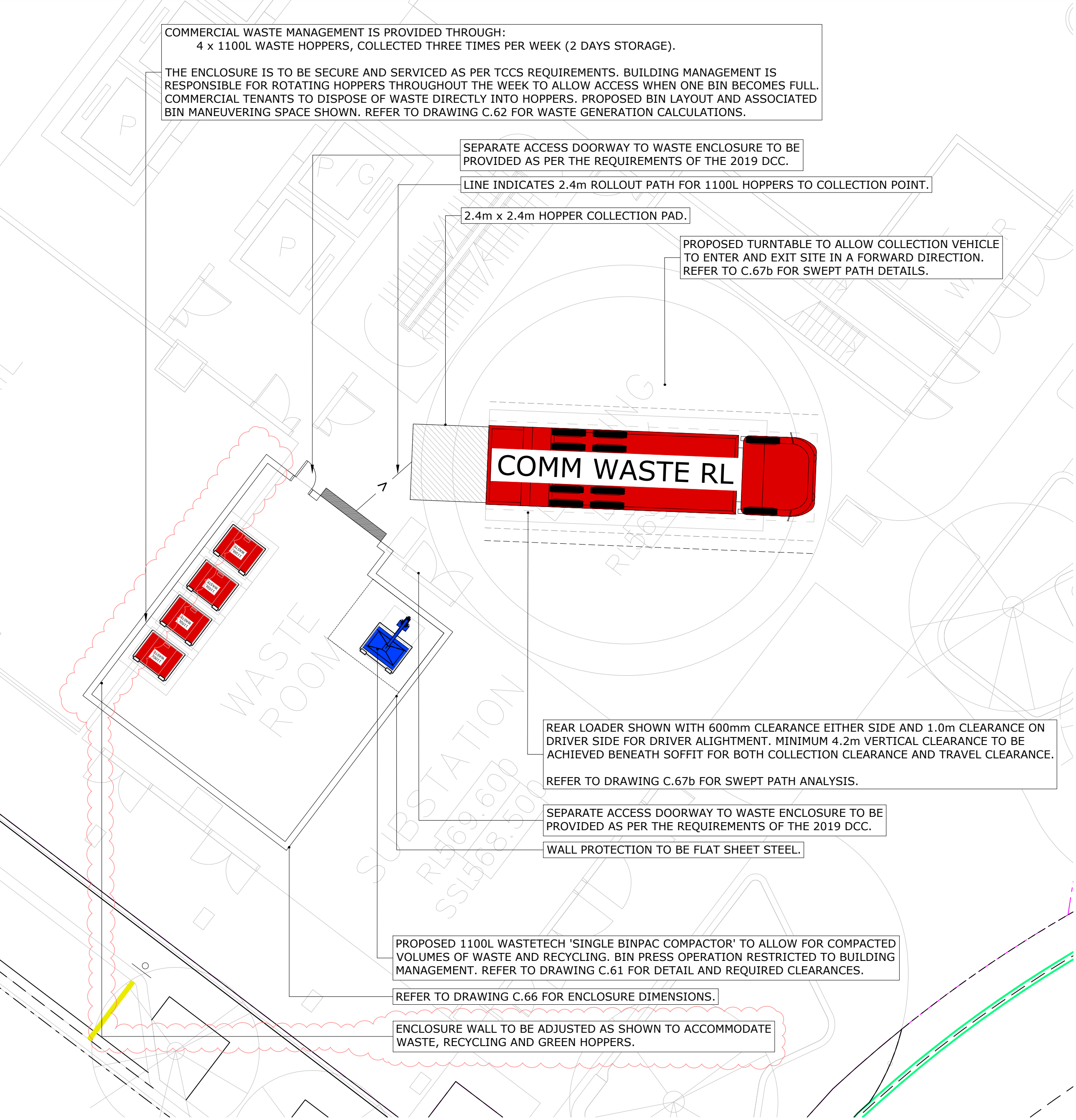
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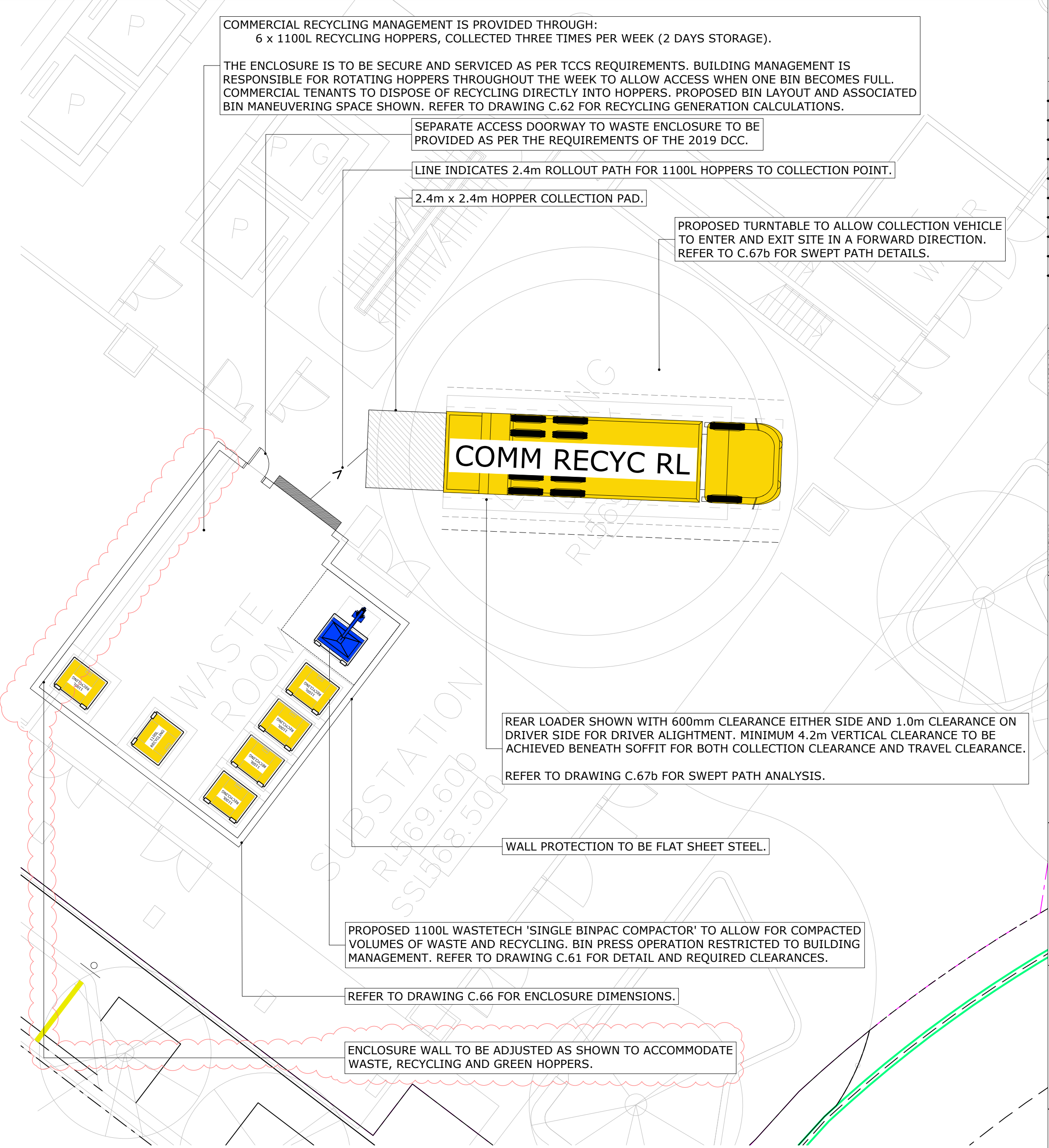
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REVISION

3



STRATUM B - WEST BUILDING - COMMERCIAL WASTE - GROUND FLOOR
1:100



STRATUM B - WEST BUILDING - COMMERCIAL RECYCLING - GROUND FLOOR
1:100

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ARCHITECT

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
COMMERCIAL WASTE & RECYCLING
MANAGEMENT - STRATUM B

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DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE

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SCALE

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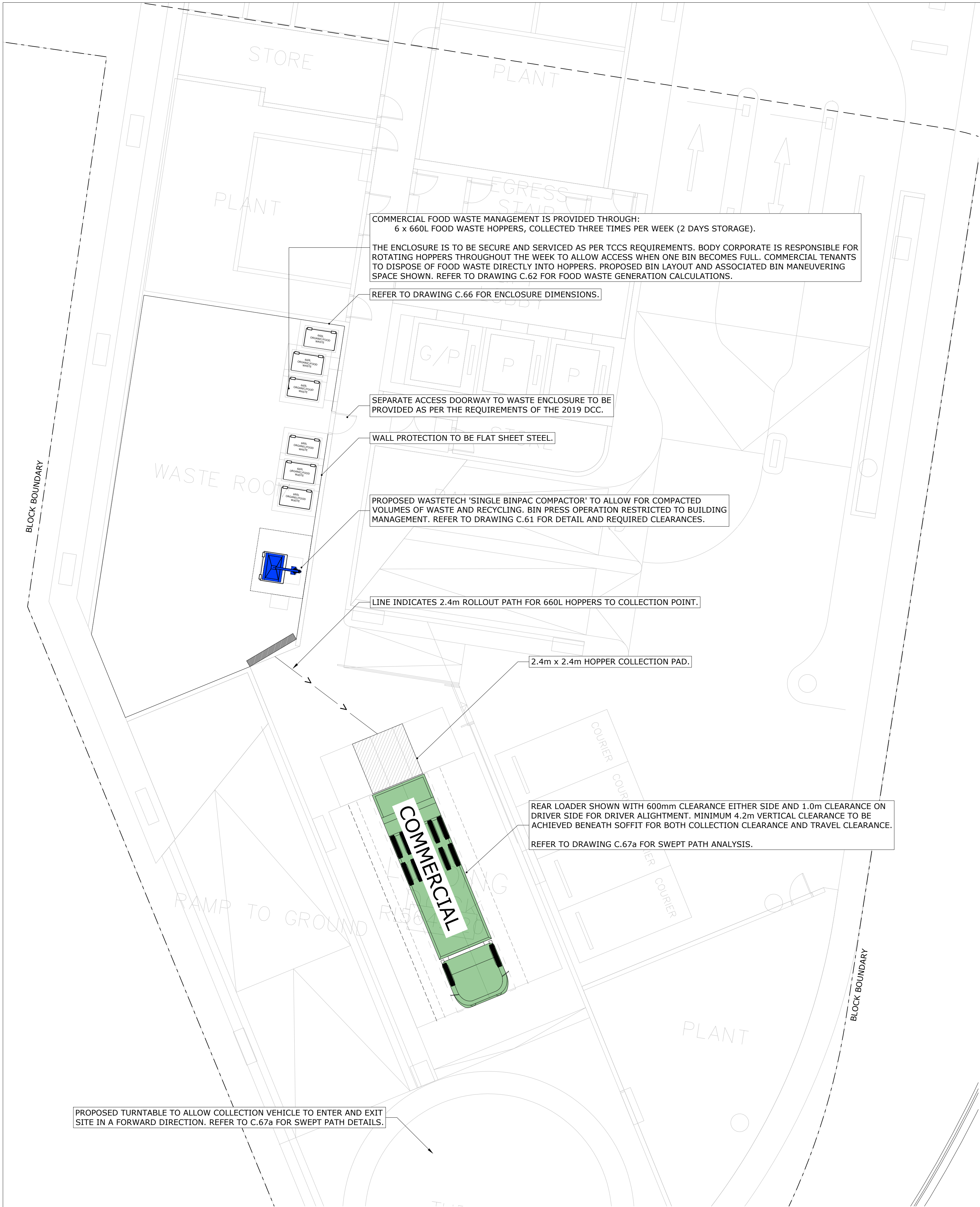
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STRATUM A - NORTH & SOUTH BUILDING - COMMERCIAL FOOD WASTE - BASEMENT 01
1:100

DISCIPLINE:
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PROJECT
**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE
**WASTE MANAGEMENT
COMMERCIAL ORGANIC WASTE
MANAGEMENT - STRATUM A**

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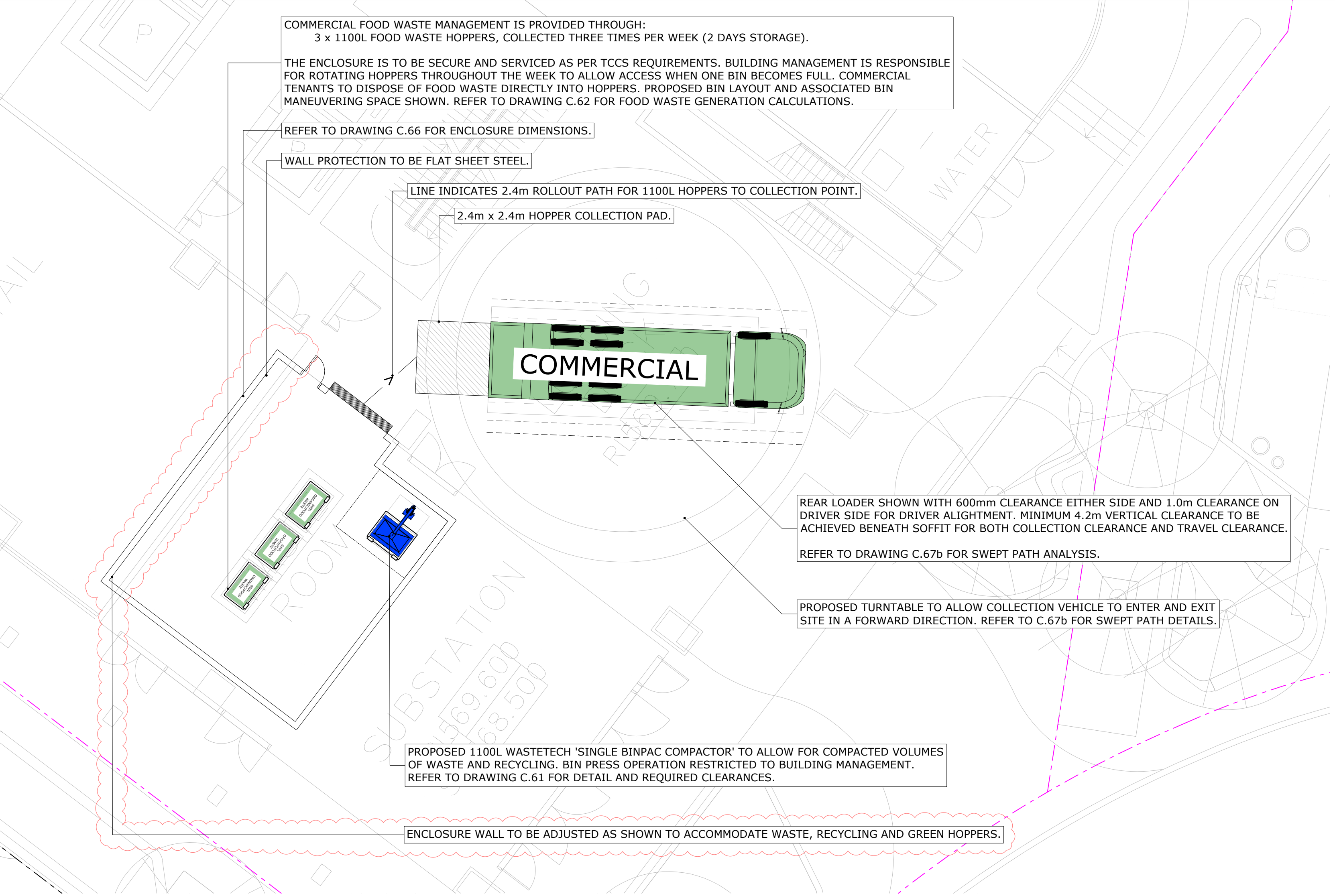
DRAFTED S.SCHUPFER

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ISSUE
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REVISION
3



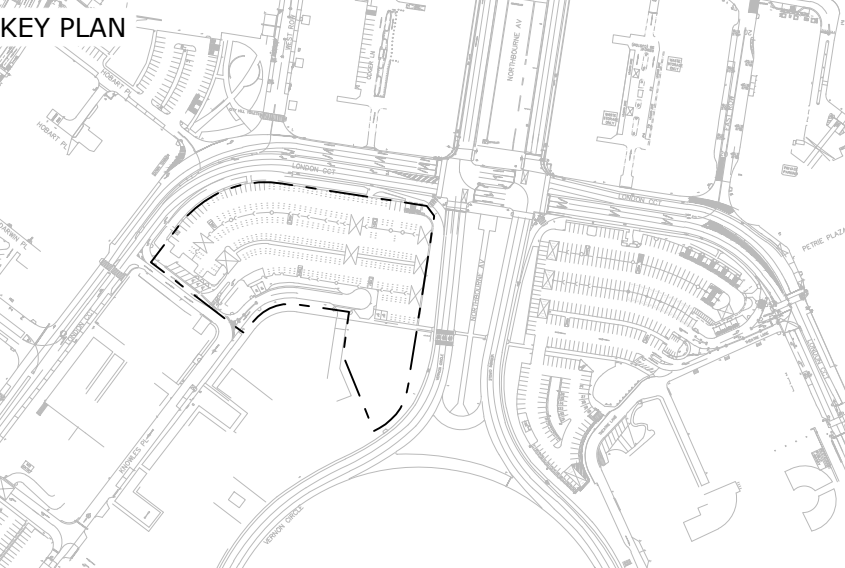
STRATUM B - WEST BUILDING - COMMERCIAL FOOD WASTE - GROUND FLOOR
1:100

DISCIPLINE:
CIVIL SERVICES

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PROJECT

60 LONDON CIRCUIT

BLOCK 40 SECTION 100

60 LONDON CIRCUIT

CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT

COMMERCIAL ORGANIC WASTE

MANAGEMENT - STRATUM B

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C.64b

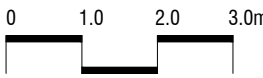
DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE



SCALE

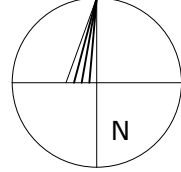
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ISSUE

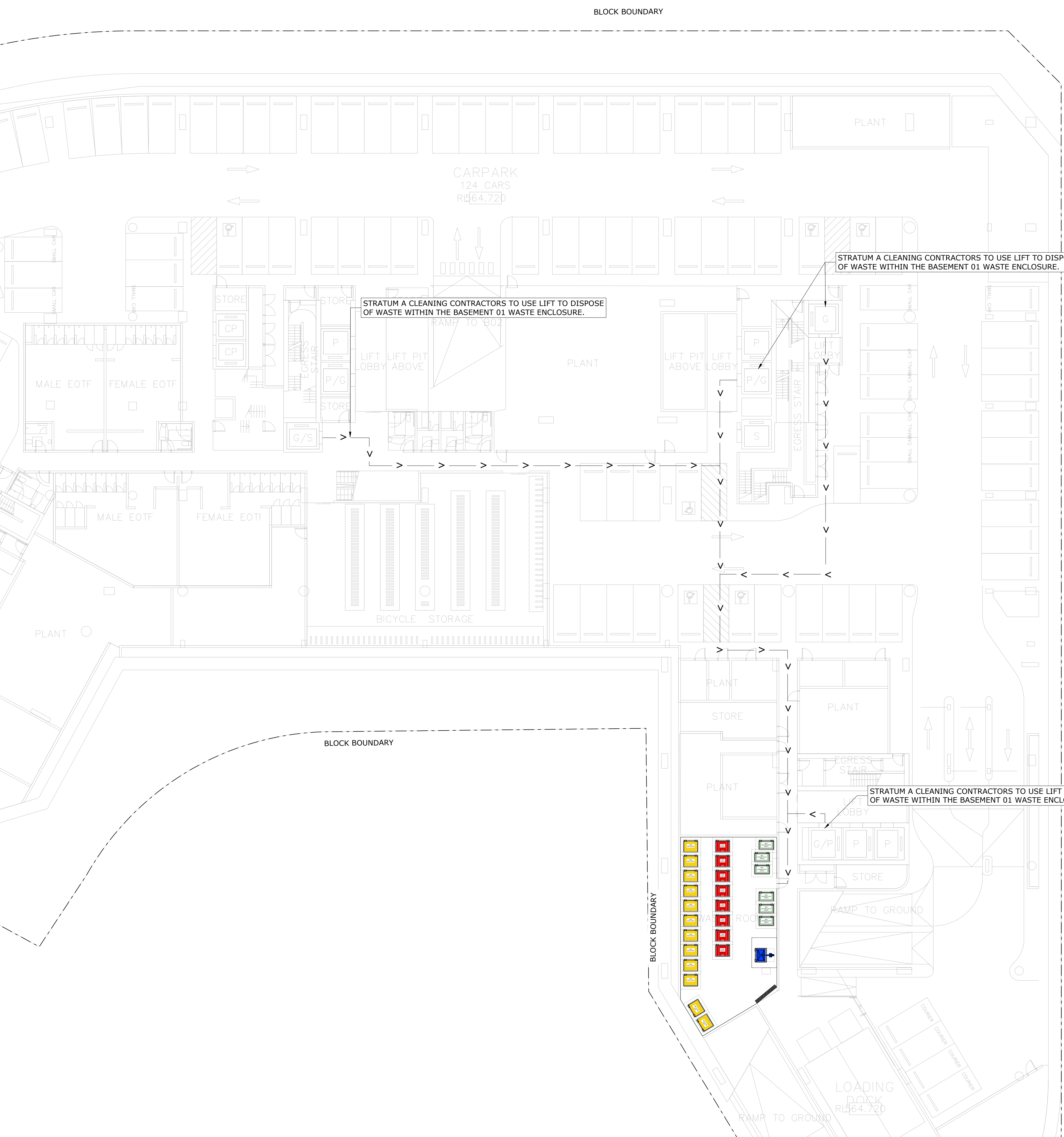
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REVISION

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STRATUM A - NORTH & SOUTH BUILDING - WASTE DISPOSAL ROUTE - BASEMENT 01

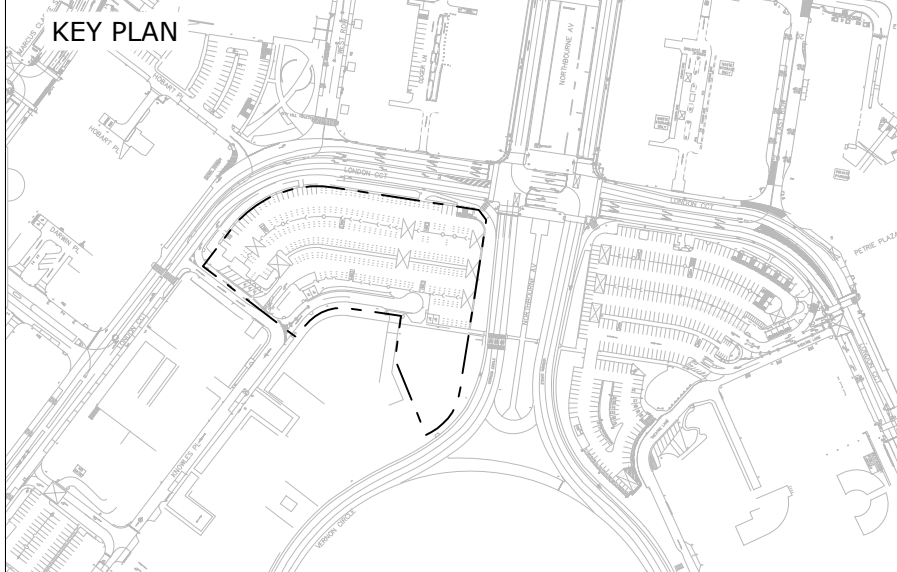
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NORTHBOURNE NORTHBOURNE AVENUE

DISCIPLINE: CIVIL SERVICES				
REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	S.S.	S.G.	28/01/25
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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
COMMERCIAL DISPOSAL ROUTES
STRATUM A

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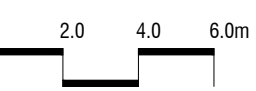
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VS24086

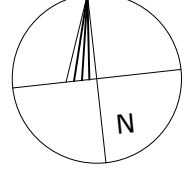
DRAWING NUMBER
C.65a

DESIGNED S.SCHUPFER

DRAFTED S.SCHUPFER

SCALE



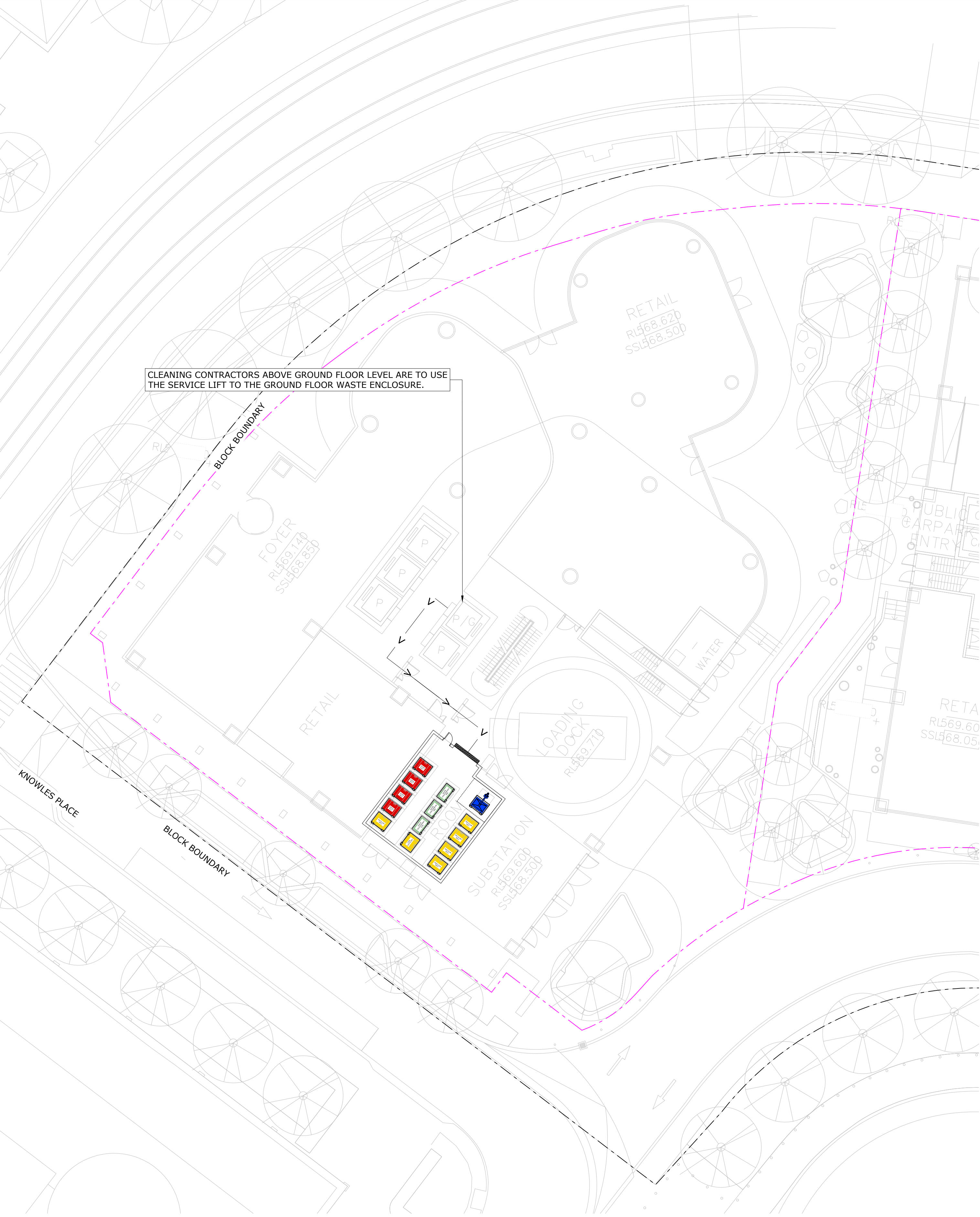


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SIZE A1

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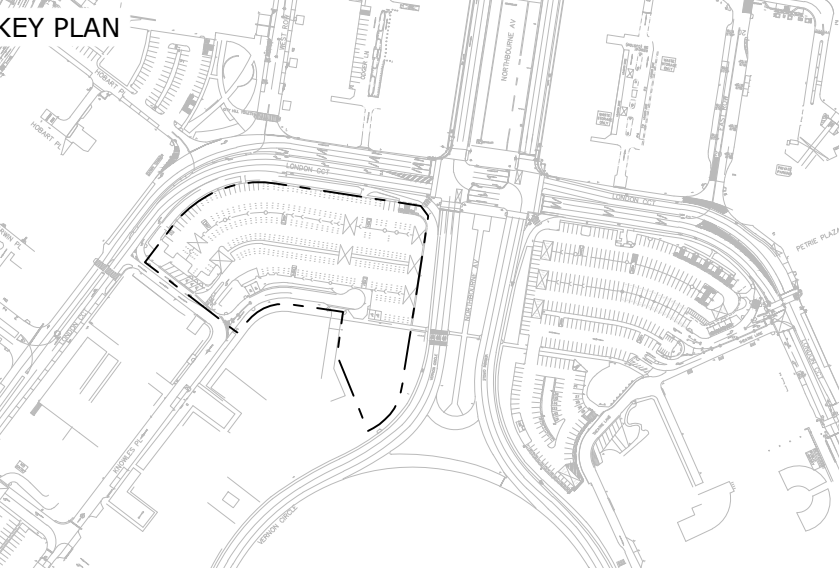
STRATUM B - WEST BUILDING - WASTE DISPOSAL ROUTE - GROUND FLOOR

1:200

DISCIPLINE:				
CIVIL SERVICES				
REV	ISSUE	CHK'D	APP'D	DATE
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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
COMMERCIAL DISPOSAL ROUTES
STRATUM B

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DRAWING NUMBER

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DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE



SCALE

1:200

SIZE

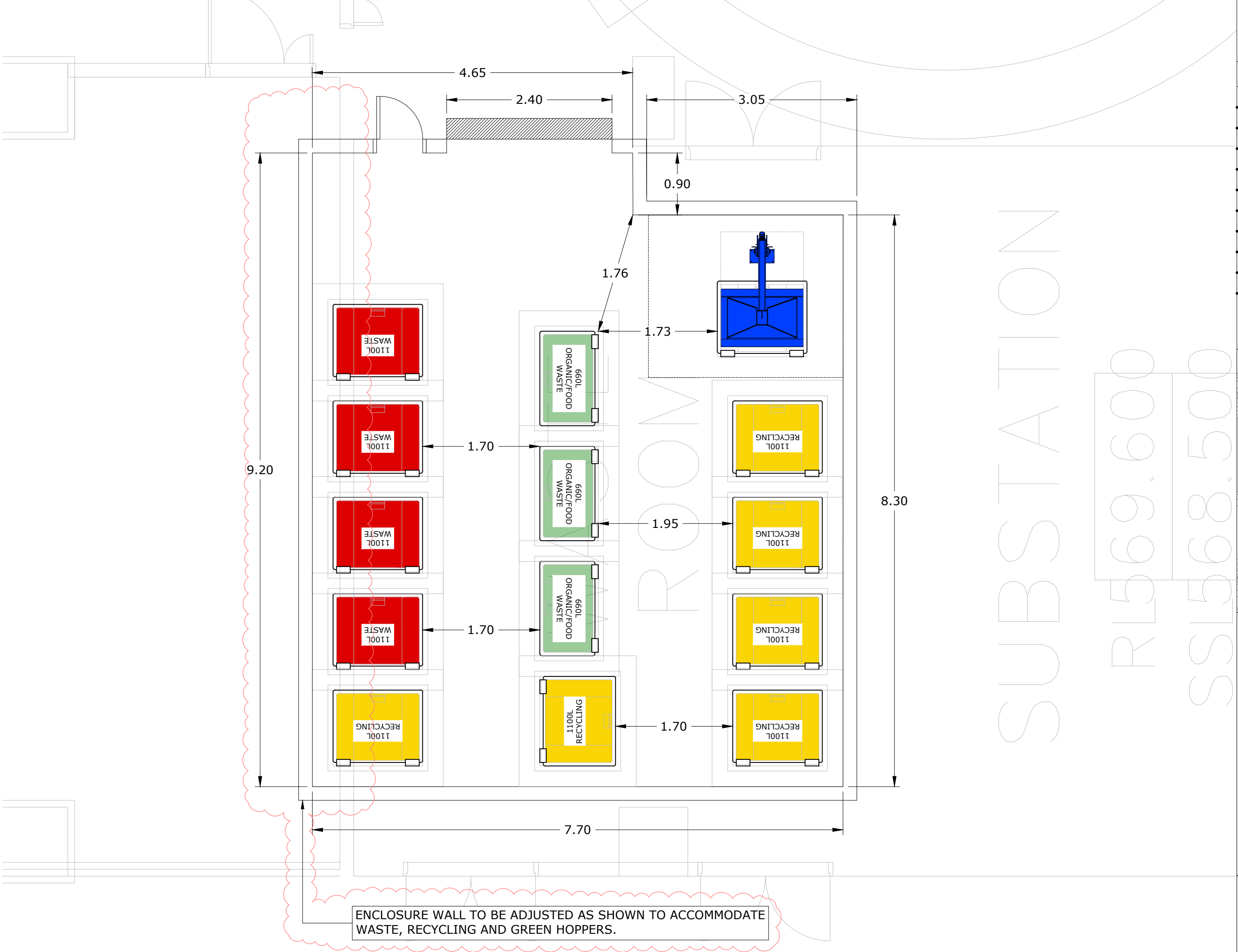
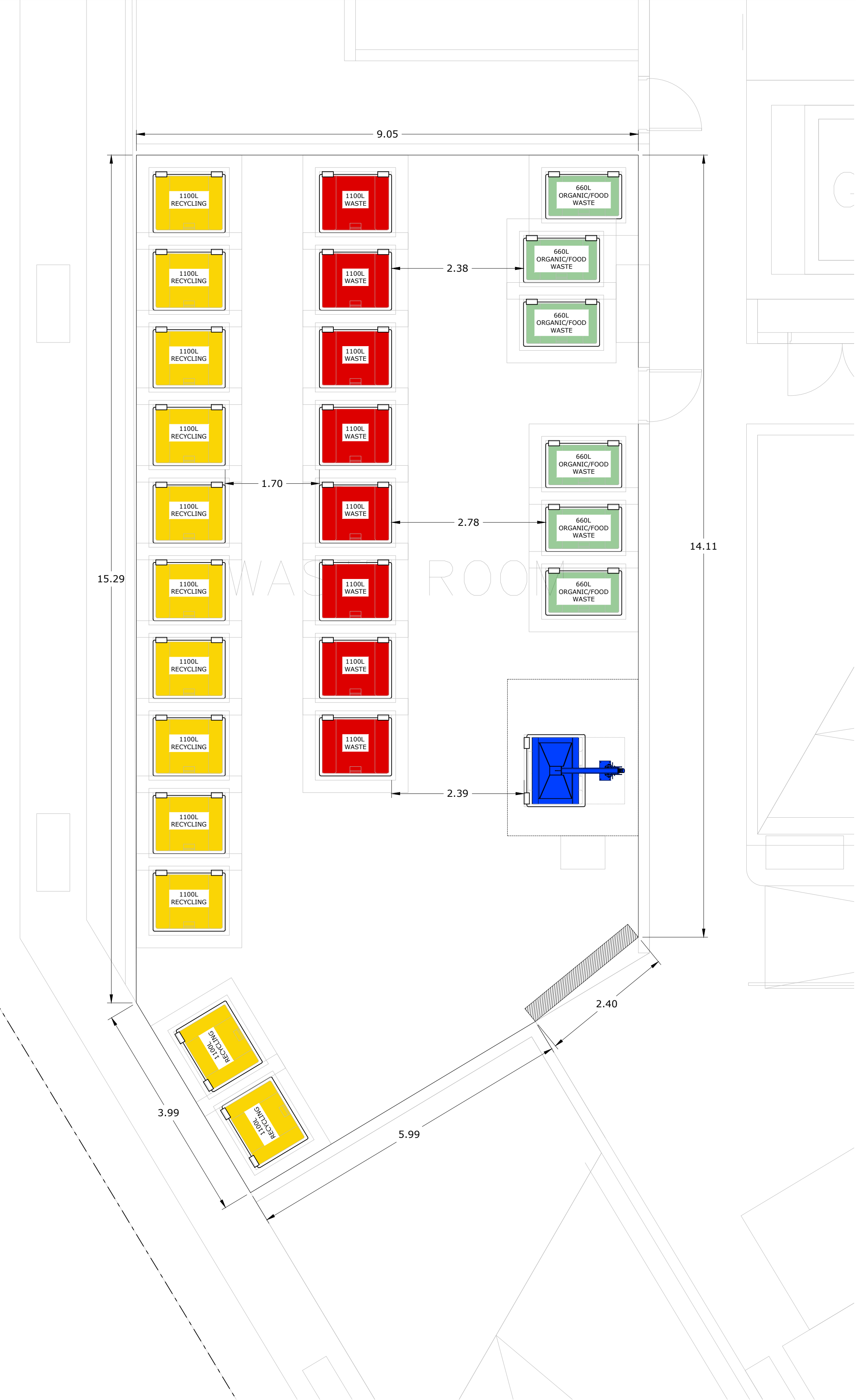
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ISSUE

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STRATUM B - WEST BUILDING - WASTE ENCLOSURE - BASEMENT 01
1:50 @ A1

DISCIPLINE:
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1	PRELIMINARY	S.S.	S.G.	28/01/25
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KEY PLAN

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
WASTE ENCLOSURE
DIMENSIONS PLAN

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DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

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SCALE

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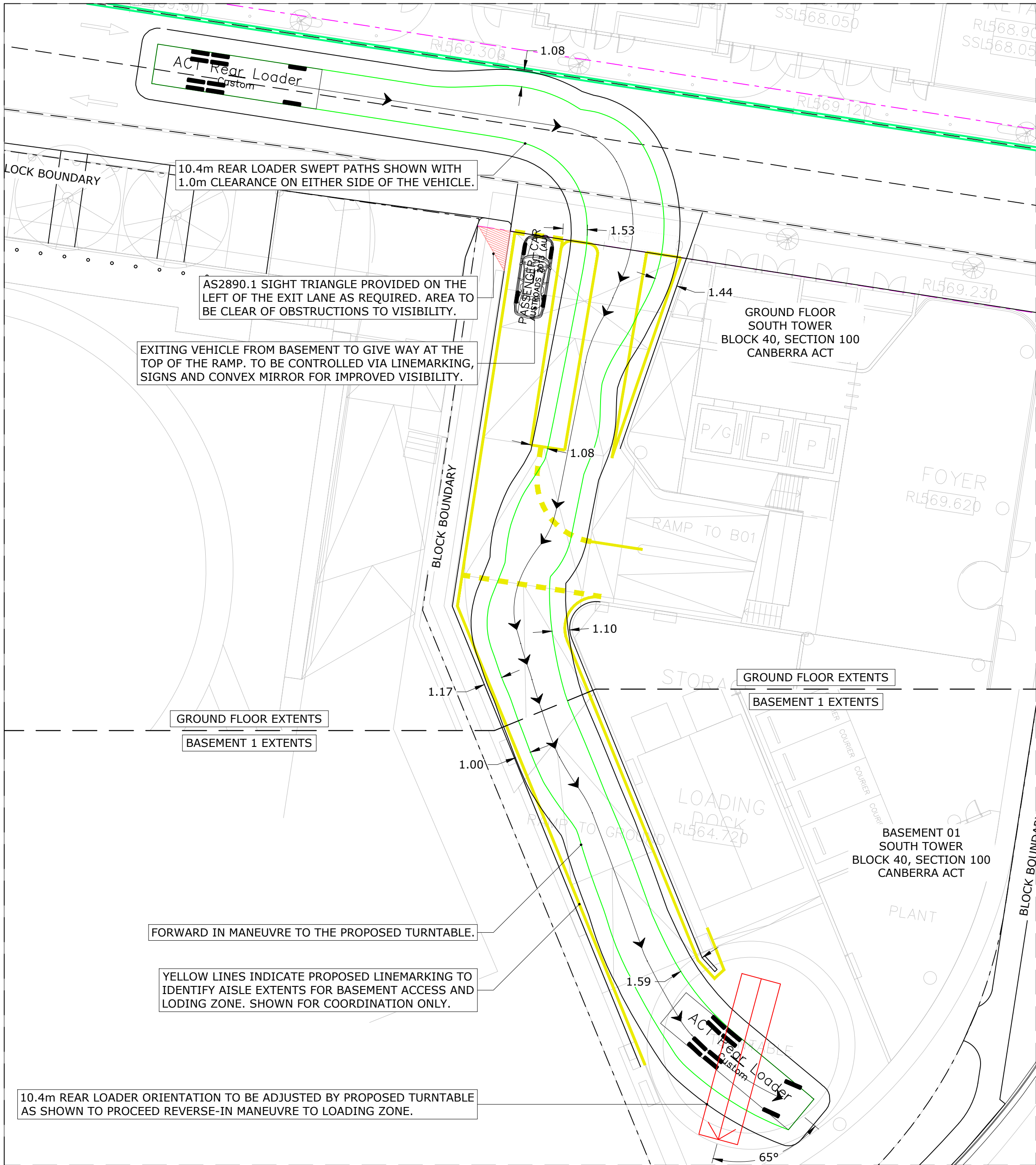
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ISSUE

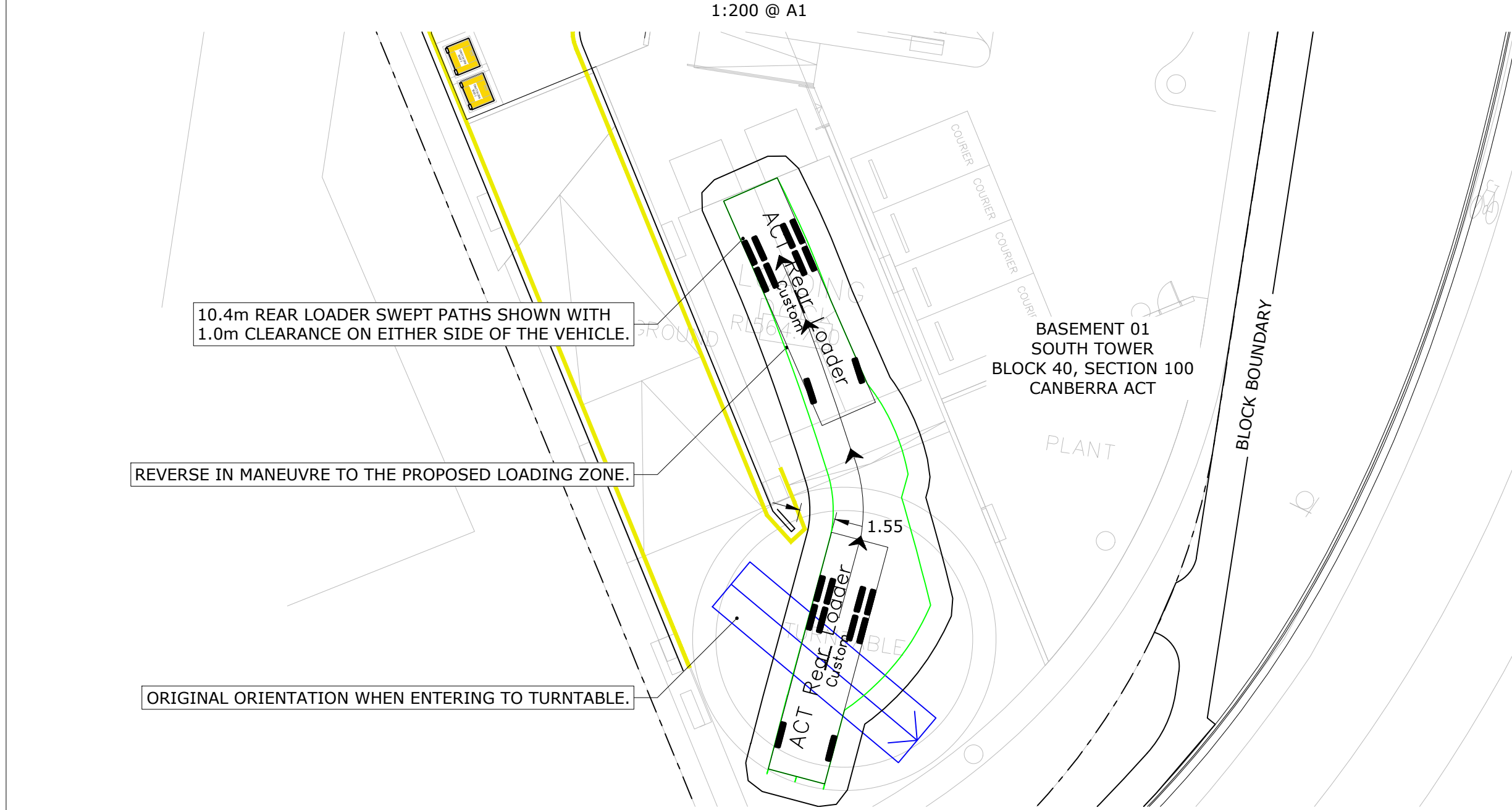
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REVISION

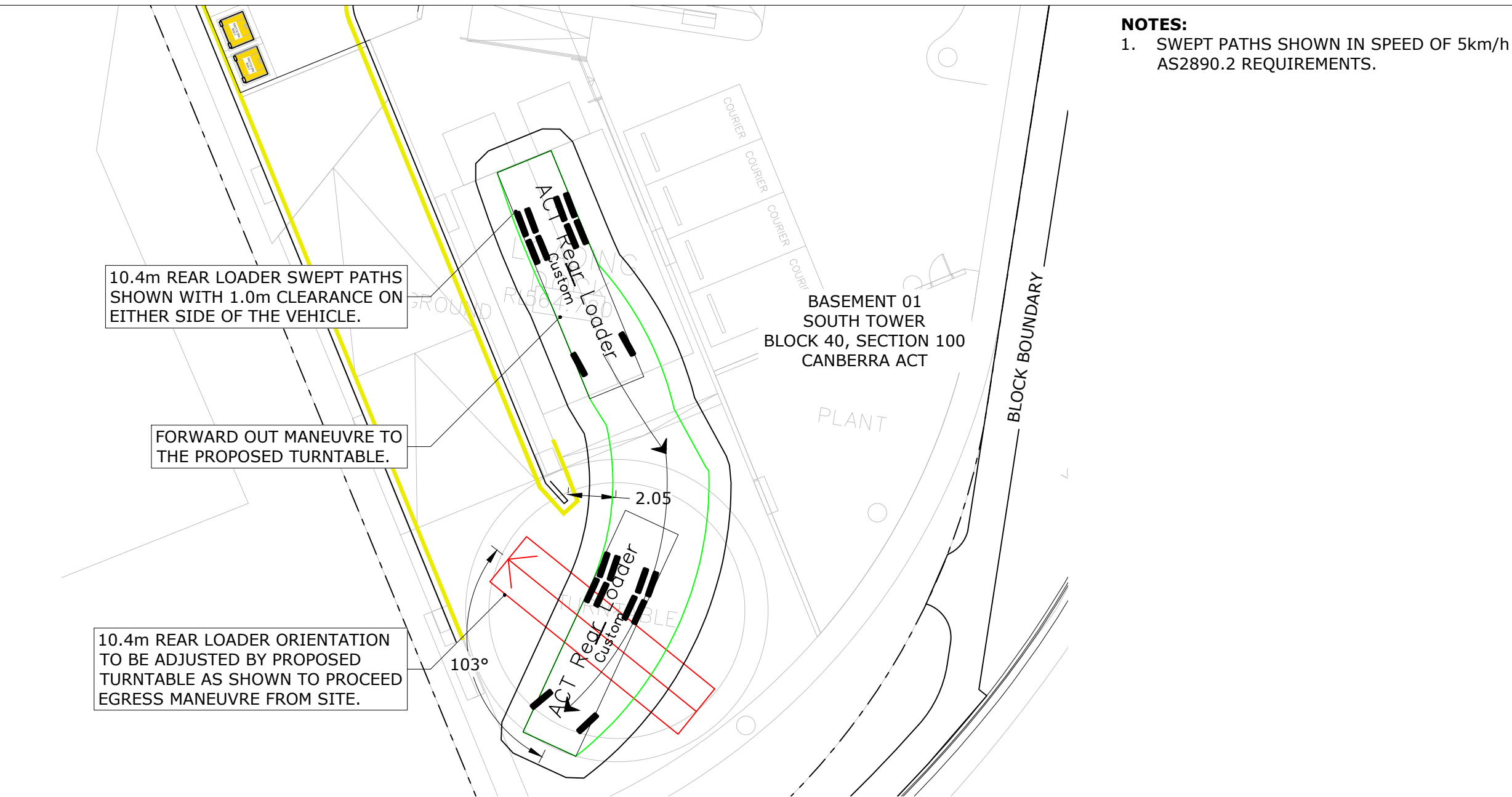
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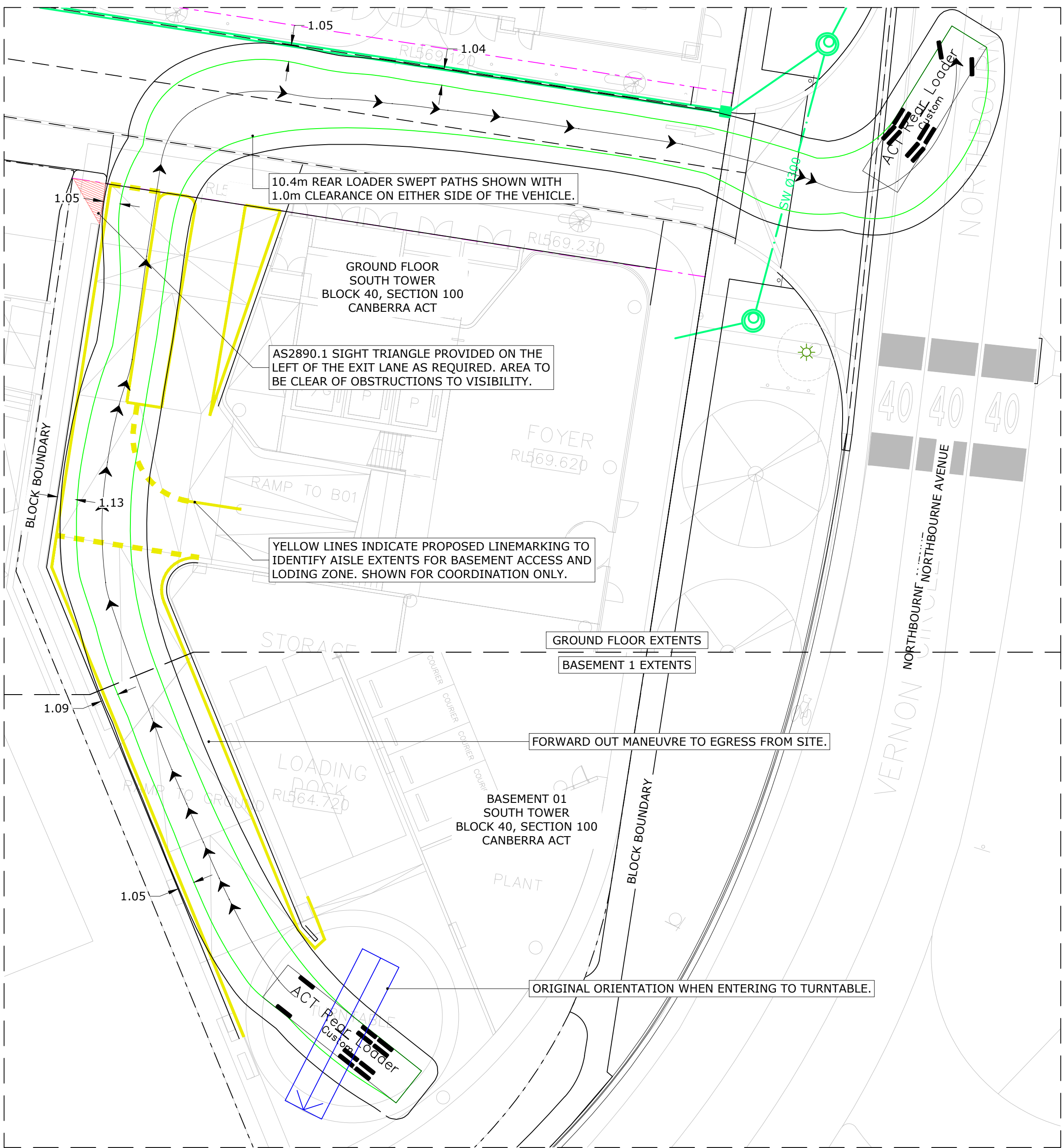
10.4m REAR LOADER SWEEP PATHS - SOUTH TOWER - STEP 1 - ACCESS TO TURNTABLE



10.4m REAR LOADER SWEEP PATHS - SOUTH TOWER - STEP 2 - REVERSE TO LOADING ZONE



10.4m REAR LOADER SWEEP PATHS - SOUTH TOWER - STEP 3 - FORWARD TO TURNTABLE



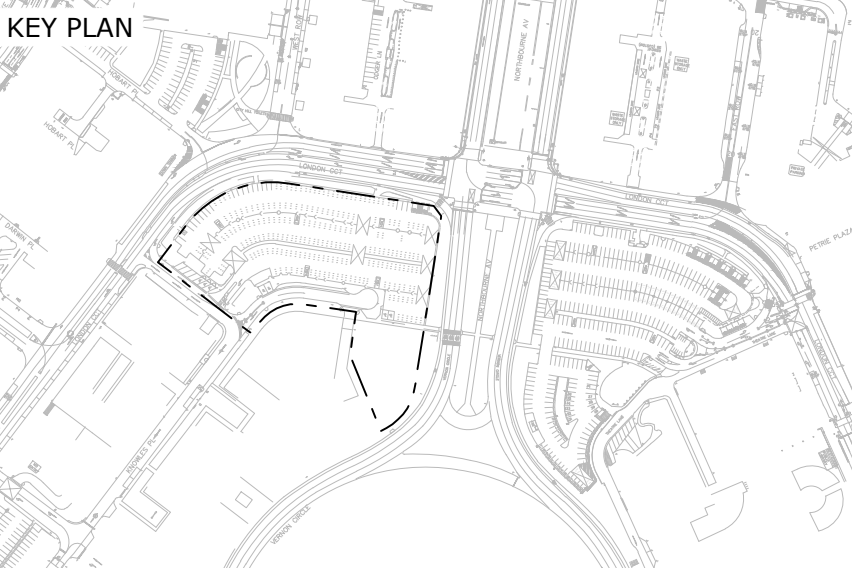
10.4m REAR LOADER SWEEP PATHS - SOUTH TOWER - STEP 4 - EGRESS FROM SITE

NOTES:
1. SWEEP PATHS SHOWN IN SPEED OF 5km/h AS PER AS2890.2 REQUIREMENTS.

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ConstructionControl

PROJECT
**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE
**WASTE MANAGEMENT
COLLECTION SWEEP PATHS
STRATUM A**

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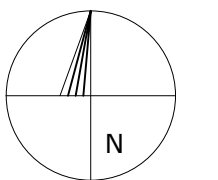
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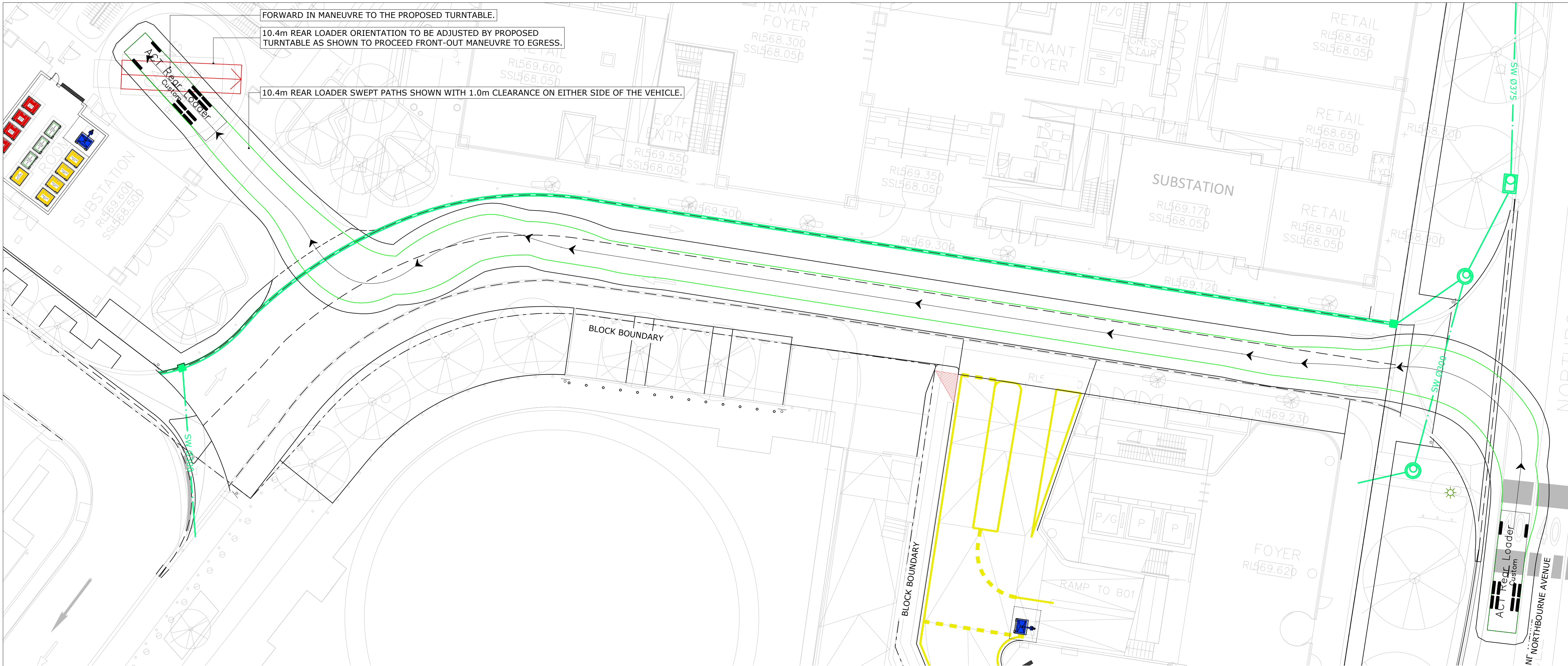
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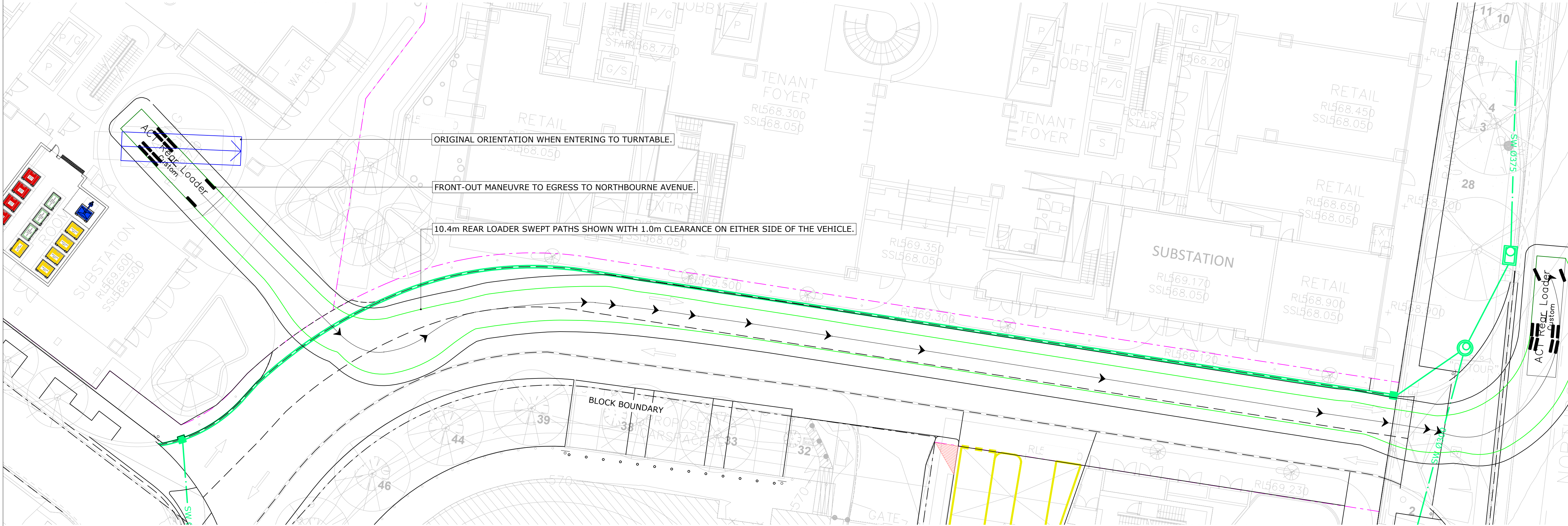
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3



COMMERCIAL WASTE, RECYCLING AND GREEN WASTE COLLECTION VEHICLE SWEEP PATH ANALYSIS - WEST TOWER ENCLOSURE ACCESS

1:200 @ A1



COMMERCIAL WASTE, RECYCLING AND GREEN WASTE COLLECTION VEHICLE SWEEP PATH ANALYSIS - WEST TOWER ENCLOSURE EGRESS

1:200 @ A1

NOTES:
1. SWEEP PATHS SHOWN IN SPEED OF 5km/h AS PER AS2890.2 REQUIREMENTS.

DISCIPLINE:

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ARCHITECT

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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WASTE MANAGEMENT
COLLECTION SWEEP PATHS
STRATUM B

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DRAWING NUMBER

C.67b

DESIGNED

S.SCHUPFER

DRAFTED

S.SCHUPFER

SCALE

SCALE

1:10

SIZE

A1

ISSUE

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REVISION

3

- GENERAL:**
1. DRAWING TO BE READ IN CONJUNCTION WITH C.30 SERIES.
 2. WSUD MEASURED DESIGNED IN ACCORDANCE WITH "ACT PRACTICE GUIDELINES FOR WATER SENSITIVE URBAN DESIGN – MODULE 1: INTRODUCTION TO WSUD IN THE ACT".

- GREENSTAR:**
3. REFER TO NDY GREENSTAR DOCUMENTATION FOR DEMONSTRATION OF THE PROPOSED OSR SYSTEM ACHIEVING THE 45% POTABLE WATER USE REDUCTION BASED ON THE GREENSTAR CALCULATOR.
 4. CREDIT 39a - NET ANNUAL DISCHARGE REDUCTION OF MINIMUM 40% HAS BEEN ASSESSED VIA TWO METHODS. BOTH METHODS DEMONSTRATE ACHIEVING THIS REQUIREMENT.
 - 4.1. USE OF THE EPSDD CALCULATOR. REFER EXTRACTS INCLUDED ON PLAN.
 - 4.2. USE OF MUSIC MODELLING SOFTWARE. REFER TO EXTRACT ON PLAN.

- STRATUM SPLIT:**
5. THE SITE IS PROPOSED DEVELOPED AS A STRATUM SUBDIVISION PER THE BELOW:
 - 5.1. STRATUM A: NORTH AND SOUTH TOWER DEVELOPMENT.
 - 5.2. STRATUM B: WEST TOWER DEVELOPMENT.

STRATUM A - TOTAL EXISTING SITE CONDITIONS FOR BLOCK 40, SECTION 100:

6. TOTAL STRATUM A SITE AREA = 6,628m²
7. TOTAL PERVIOUS AREA = 2,069m² (31.2%)
 - 7.1. LANDSCAPE AREA = 1,750m²
 - 7.2. GRAVEL AREA = 319m²
8. TOTAL IMPERVIOUS AREA = 4,559m² (68.8%)
 - 8.1. VEHICULAR PAVEMENT AREA = 4,261m²
 - 8.2. PEDESTRIAN PAVEMENT AREA = 298m²

STRATUM A - TOTAL PROPOSED SITE CONDITIONS FOR BLOCK 40, SECTION 100:

9. TOTAL STRATUM A SITE AREA = 6,628m²
10. TOTAL PERVIOUS AREA = 247m² (3.7%)
 - 10.1. LANDSCAPE AREA (GF) = 58m²
 - 10.2. LANDSCAPE AREA (ROOF) = 189m²
11. TOTAL IMPERVIOUS AREA = 6,381m² (96.3%)
 - 11.1. ROOF AREA = 6,020m²
 - 11.2. PEDESTRIAN PAVEMENT AREA = 361m²

LEGEND

SERVICE	EXISTING	PROPOSED	INFRASTRUCTURE	EXISTING	PROPOSED
WATER MAIN	—eW—		STORMWATER MANHOLE	⊙	
SEWER MAIN	—eS—		STORMWATER R-SUMP	⊞	
SEWER RISING MAIN	—eSRM—		STORMWATER QS-SUMP	⊞	
STORMWATER MAIN	—eSW—	—SW—	STORMWATER QUALITY IMPROVEMENT DEVICE		●
GAS MAIN	—eG—				
ELECTRICITY	—eE—				
ELECTRICITY UG/HV	—eUG/HV—				
ELECTRICITY UG/LV	—eUG/LV—				
STREETLIGHT MAIN	—eSL—				
OPTUS MAIN	—eOP—				
TELSTRA MAIN	—eT—				
TRANSACT MAIN	—eTA—				
COMMUNICATIONS	—eC—				
ABANDONED SERVICE	—X—X— 00V X—X—				
BLOCK BOUNDARY	----	----			

PIPE GRADING BOX

u.L.
LENGTH
Ø
MAT
GRADE
d.L.

UPSTREAM INVERT
PIPE LENGTH
PIPE SIZE
PIPE MATERIAL
PIPE GRADE/SLOPE
DOWNSTREAM INVERT

DISCIPLINE:

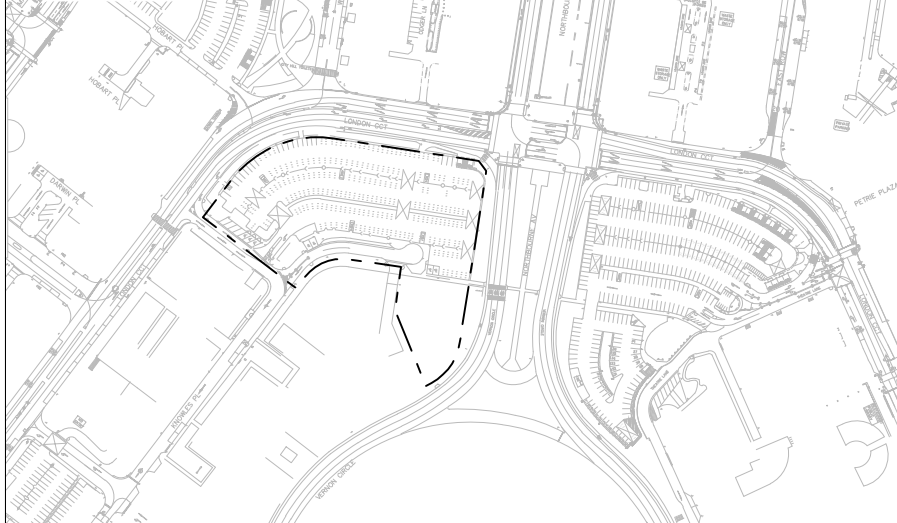
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REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	11/02/25
2	PRELIMINARY	A.N.	S.G.	26/03/25
3	PRELIMINARY	A.N.	S.G.	04/04/25

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KEY PLAN



Vital Design Solutions
HYDRAULIC CIVIL FIRE

CANBERRA - GROUND FLOOR, 20 SPRINGOLITE STREET, BEARD ACT 2620
MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006

Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
Fax 02 6299 2316 Web vdsol.com.au ACN 151 340 788

ARCHITECT

JPW

CLIENT



PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WSUD
NOTES AND DETAILS
(SHEET 01 OF 02)

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.30

DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

NTS

SCALE

NTS

SIZE

A1

ISSUE

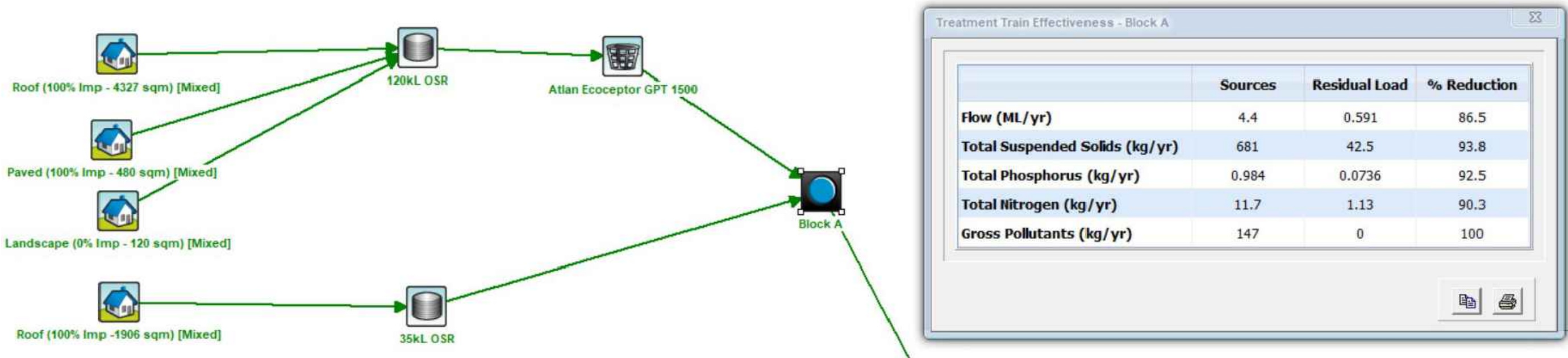
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REVISION

3

RULE/SECTION OF WSUD MODULE 1	REQUIREMENTS	ADDRESS
5.1 MAINS USE WATER REDUCTION	DEVELOPMENT IS REQUIRED TO SUPPORT INCREASING EFFICIENCY IN POTABLE WATER SE. AS A MINIMUM, A REDUCTION OF 40% COMPARED TO 2003 LEVELS IS REQUIRED FOR ALL NEW DEVELOPMENTS.	1. WATER REDUCTION CALCULATIONS HAVE BEEN UNDERTAKEN ON A SITE WIDE BASIS. 2. TO ASSESS WATER USE REDUCTION REQUIREMENTS, COMMERCIAL CALCULATORS HAVE BEEN USED AS THE PROJECT IS COMMERCIAL ONLY. 3. NO INFORMATION WAS AVAILABLE ON FIRE TESTING SYSTEM REQUIREMENTS OR COOLING SYSTEM USE. THEREFORE IT HAS NOT BEEN INCLUDED IN THE ESTIMATION. 4. TO ACHIEVE WATER USE REDUCTION REQUIREMENTS, THE FOLLOWING FIXTURE RATINGS ARE REQUIRED: COMMERCIAL: SHOWER HEADS 4 STAR (>6 FLOW L/MIN <7.5 FLOW L/MIN AS PER EPSDD SPREADSHEET) DISHWASHERS 5 STAR KITCHEN SINK 5 STAR TOILETS 4 STAR URINALS 6 STAR BASINS 5 STAR 5. ASSOCIATED WITH THE ABOVE STAR RATINGS OF FIXTURES, THE ROOF WATER AND RETENTION IS TO BE REUSED FOR TOILETS, URINALS AND GARDEN. 6. REFER TO DRAWING C.36 FOR FULL WATER REDUCTION CALCULATIONS ASSOCIATED WITH THE DEVELOPMENT.
5.2.1 ON-SITE RETENTION	STORMWATER STORAGE CAPACITY OF 1.4KL PER 100m ² OF TOTAL IMPERVIOUS AREA IS PROVIDED.	1. THE PROPOSED SITE IS GREATER THAN 2,000m² AND THEREFORE REQUIRES ON-SITE RETENTION. 2. 1.4KL OF SITE STORAGE IS REQUIRED PER 100m² OF IMPERVIOUS AREA. 2.1. 6,628m² OF IMPERVIOUS AREA REQUIRES MINIMUM 93KL OF OSR. 3. ON-SITE RETENTION IS ADDRESSED ON A SITE WIDE BASIS: 3.1. 155KL OF OSR TO SERVICE THE SITE. 4. THE TOTAL RETAINED VOLUME IS TO BE REUSED TO TOILETS, URINALS AND GARDEN.
5.2.2 ON-SITE DETENTION	PROVIDE STORMWATER DETENTION MEASURES DESIGNED TO DETAIL WATER AND RELEASE IT OVER ONE TO THREE DAYS; WITH A MINIMUM CAPACITY OF 1KL PER 100m ² OF TOTAL IMPERVIOUS AREA. CALCULATING ON-SITE DETENTION CAN INCLUDE 50% OF THE VOLUME OF OSR WHERE THE WATER IS REUSED ON-SITE.	1. THE PROPOSED SITE IS GREATER THAN 2,000m² AND THEREFORE REQUIRES ON-SITE DETENTION. 2. 1.0KL OF SITE STORAGE IS REQUIRED PER 100m² OF IMPERVIOUS AREA. 2.1. 6,628m² OF IMPERVIOUS AREA REQUIRES MINIMUM 67KL OF OSD. 3. ON-SITE DETENTION REQUIRED IS INCLUDED BY 50% OF THE VOLUME OF OSR.
5.3.1 STORMWATER QUALITY	DEVELOPMENTS GREATER THAN 2,000m ² IN AREA MUST ACHIEVE POLLUTANT LOAD REDUCTIONS COMPARED WITH AN URBAN CATCHMENT OF THE SAME AREA WITH NO WATER QUALITY MANAGEMENT CONTROLS. REDUCING: - GROSS POLLUTANTS BY AT LEAST 90% MEAN ANNUAL LOAD - SUSPENDED SOLIDS BY AT LEAST 60% OF THE MEAN ANNUAL LOAD - TOTAL PHOSPHOROUS BY AT LEAST 45% OF THE MEAN ANNUAL LOAD - TOTAL NITROGEN BY AT LEAST 40% OF THE MEAN ANNUAL LOAD	1. STORMWATER QUALITY IS ACHIEVED THROUGH THE INSTALLATION OF 120KL OSR FOR REUSE. REFER TO MUSIC MODEL EXTRACT.
5.4.2 SUPPORTING GREEN/LIVING INFRASTRUCTURE IN THE ACT	DEVELOPMENT IS REQUIRED TO MEET A MINIMUM 20% TARGET OF PERMEABLE SURFACE AREA.	1. THE 20% PERVIOUS AREA REQUIREMENT DOESN'T APPEAR TO BE ACHIEVED. WSUD CALCULATIONS HAVE BEEN BASED ON THE IMPERVIOUS AREAS OF THE DEVELOPMENT PROPOSED.

20% PERVIOUS SITE AREA APPEARS NOT TO BE
APPLICABLE. TO BE CONFIRMED BY OTHERS.



MUSIC MODEL EXTRACT - STRATUM A

N.T.S.

- NOTE:**
1. MUSIC MODEL SHOWS A NETREDUCTION IN ANNUAL STORMWATER DISCHARGE FROM STRATUM A DEVELOPMENT OF 86.5%. MEETING THE GREENSTAR CREDIT 39a REQUIREMENT OF MINIMUM 40% REDUCTION OF NET ANNUAL DISCHARGE WHEN COMPARED STORMWATER THAT WOULD BE DISCHARGED WITHOUT HARVESTING AND RETENTION.
 2. REUSE FROM THE OSR TANK HAS BEEN INPUT INTO THE MUSIC MODEL AS PER THE REUSE FROM THE EPSDD CALCULATOR SHOWN ON DRAWING C.36.

Average L/day	0	0	0	4,272
Average L/year	0	0	0	1,559,254
Total L	0	0	0	15,601,089

**EPSDD CALCULATOR - NET ANNUAL DISCHARGE
STRATUM A - POST DEVELOPED, NO TANK**

N.T.S.

Average L/day	6,066	1,386	37	2,535
Average L/year	2,213,944	506,005	13,518	925,321
Total L	22,151,573	5,062,827	135,249	9,258,277

**EPSDD CALCULATOR - NET ANNUAL DISCHARGE
STRATUM A - POST DEVELOPED, 155KL OSR TANK**

N.T.S.

- NOTE:**
1. EPSDD CALCULATORS SHOW A NET REDUCTION IN ANNUAL STORMWATER DISCHARGE FROM STRATUM A DEVELOPMENT OF 43%. MEETING THE GREENSTAR CREDIT 39a REQUIREMENT OF MINIMUM 40% REDUCTION OF NET ANNUAL DISCHARGE WHEN COMPARED STORMWATER THAT WOULD BE DISCHARGED WITHOUT HARVESTING AND RETENTION.

1. DRAWING TO BE READ IN CONJUNCTION WITH C.30 SERIES.
2. WSUD MEASURED DESIGNED IN ACCORDANCE WITH "ACT PRACTICE GUIDELINES FOR WATER SENSITIVE URBAN DESIGN - MODULE 1: INTRODUCTION TO WSUD IN THE ACT".

3. REFER TO INDY GREENSTAR DOCUMENTATION FOR DEMONSTRATION OF THE PROPOSED OSR SYSTEM ACHIEVING THE 45% POTABLE WATER USE REDUCTION BASED ON THE GREENSTAR CALCULATOR.
4. CREDIT 39a - NET ANNUAL DISCHARGE REDUCTION OF MINIMUM 40% HAS BEEN ASSESSED VIA TWO METHODS. BOTH METHODS DEMONSTRATE ACHIEVING THIS REQUIREMENT.
 - 4.1. USE OF THE EPSDD CALCULATOR. REFER EXTRACTS INCLUDED ON PLAN.
 - 4.2. USE OF MUSIC MODELLING SOFTWARE. REFER TO EXTRACT ON PLAN.

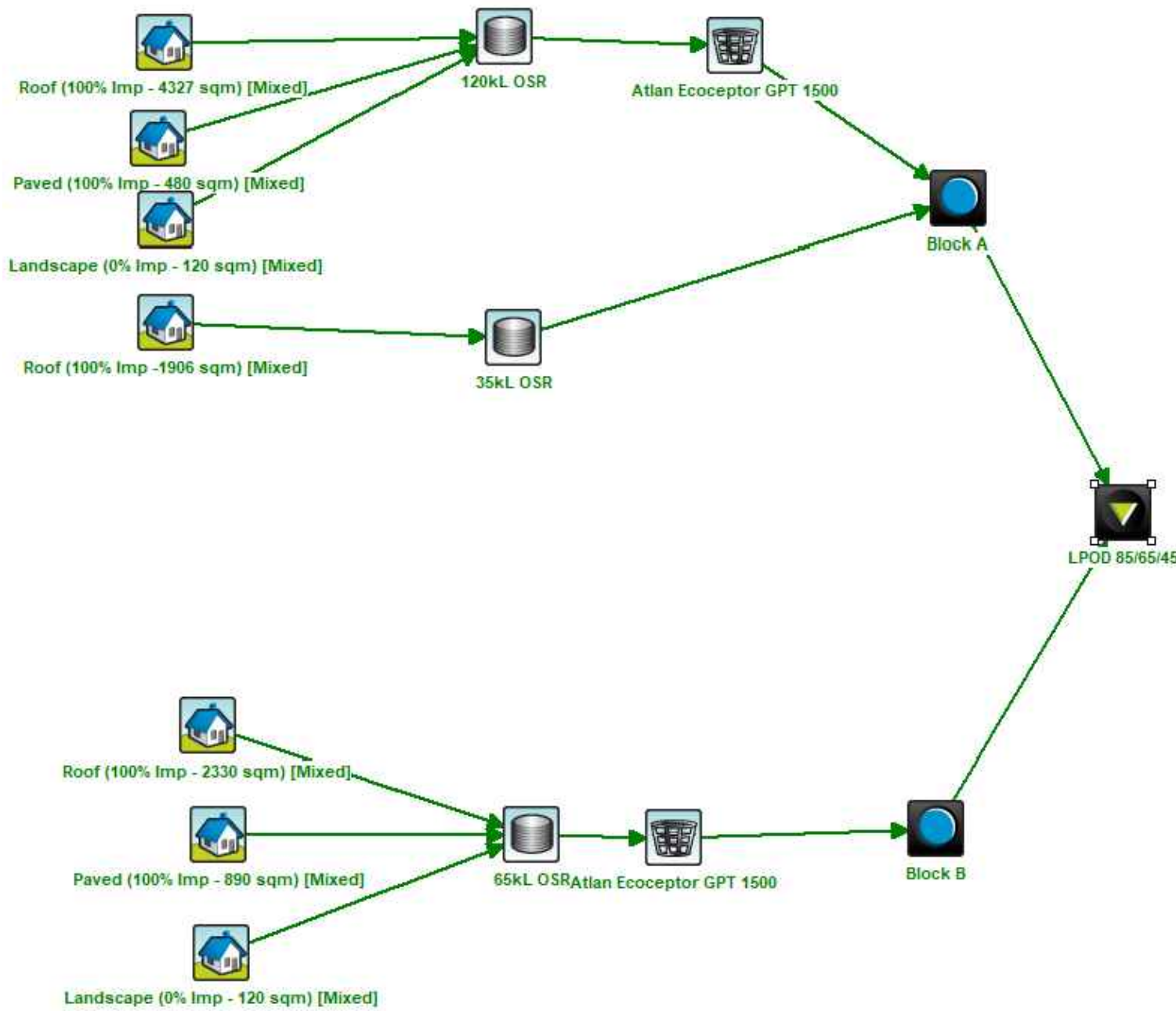
5. THE SITE IS PROPOSED DEVELOPED AS A STRATUM SUBDIVISION PER THE BELOW:

5.1. STRATUM A: NORTH AND SOUTH TOWER DEVELOPMENT.

5.2. STRATUM B: WEST TOWER DEVELOPMENT.

6. TOTAL STRATUM B SITE AREA = 2,893m²
7. TOTAL PERVIOUS AREA = 324m² (11.2%)
 - 7.1. LANDSCAPE AREA = 13m²
 - 7.2. GRAVEL AREA = 311m²
8. TOTAL IMPERVIOUS AREA = 2,569m² (88.8%)
 - 8.1. VEHICULAR PAVEMENT AREA = 2,301m²
 - 8.2. PEDESTRIAN PAVEMENT AREA = 268m²

9. TOTAL STRATUM B SITE AREA = 2,893m²
10. TOTAL PERVIOUS AREA = 133m² (4.6%)
 - 10.1. LANDSCAPE AREA (GF) = 133m²
 - 10.2. LANDSCAPE AREA (ROOF) = 0m²
11. TOTAL IMPERVIOUS AREA = 2,760m² (95.4%)
 - 11.1. ROOF AREA = 2,340m²
 - 11.2. PEDESTRIAN PAVEMENT AREA = 420m²



	Sources	Residual Load	% Reduction
Flow (ML/yr)	6.5	0.957	85.3
Total Suspended Solids (kg/yr)	1010	55.9	94.5
Total Phosphorus (kg/yr)	1.46	0.0985	93.2
Total Nitrogen (kg/yr)	17.3	1.66	90.4
Gross Pollutants (kg/yr)	218	0	100

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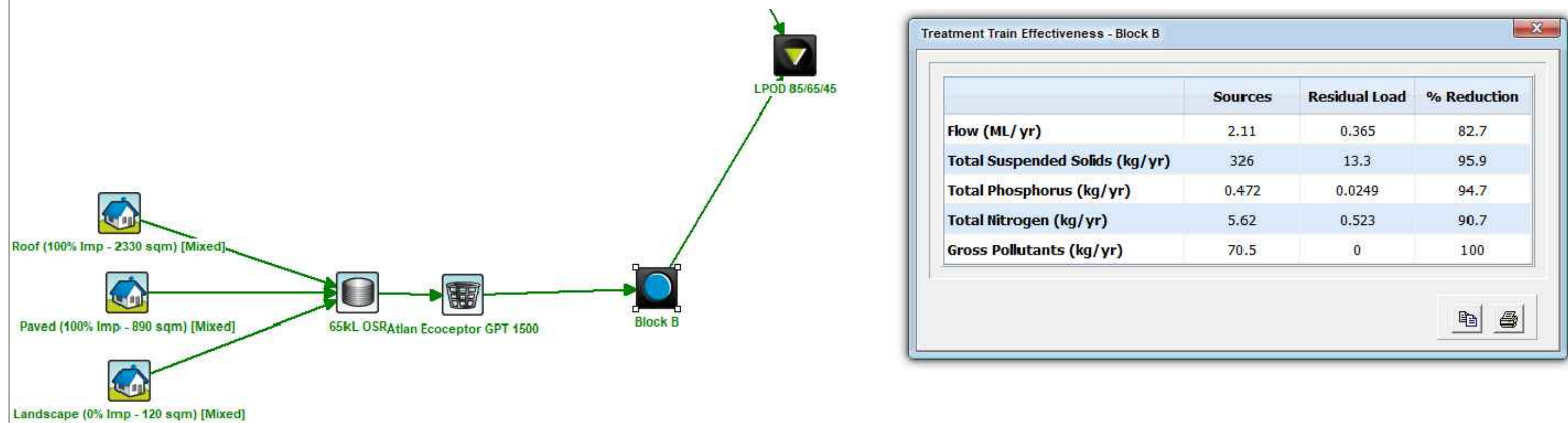
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N.T.S

1. MUSIC MODEL SHOWS A RETREDUCTION IN ANNUAL STORMWATER DISCHARGE FROM ENTIRE SITE OF 85.3%. MEETING THE GREENSTAR CREDIT 39a REQUIREMENT OF MINIMUM 40% REDUCTION OF NET ANNUAL DISCHARGE WHEN COMPARED STORMWATER THAT WOULD BE DISCHARGED WITHOUT HARVESTING AND RETENTION.
2. REUSE FROM THE OSR TANK HAS BEEN INPUT INTO THE MUSIC MODEL AS PER THE REUSE FROM THE EPSDD CALCULATOR SHOWN ON DRAWING C.36.

RULE/SECTION OF WSUD MODULE 1	REQUIREMENTS	ADDRESS
5.1 MAINS USE WATER REDUCTION	DEVELOPMENT IS REQUIRED TO SUPPORT INCREASING EFFICIENCY IN POTABLE WATER SE. AS A MINIMUM, A REDUCTION OF 40% COMPARED TO 2003 LEVELS IS REQUIRED FOR ALL NEW DEVELOPMENTS.	1. WATER REDUCTION CALCULATIONS HAVE BEEN UNDERTAKEN ON A SITE WIDE BASIS. 2. TO ASSESS WATER USE REDUCTION REQUIREMENTS, COMMERCIAL CALCULATORS HAVE BEEN USED AS THE PROJECT IS COMMERCIAL ONLY. 3. NO INFORMATION WAS AVAILABLE ON FIRE TESTING SYSTEM REQUIREMENTS OR COOLING SYSTEM USE. THEREFORE IT HAS NOT BEEN INCLUDED IN THE ESTIMATION. 4. TO ACHIEVE WATER USE REDUCTION REQUIREMENTS, THE FOLLOWING FIXTURE RATINGS ARE REQUIRED: COMMERCIAL: SHOWER HEADS 4 STAR (>6 FLOW L/MIN <7.5 FLOW L/MIN AS PER EPSDD SPREADSHEET) DISHWASHERS 5 STAR KITCHEN SINK 5 STAR TOILETS 4 STAR URINALS 6 STAR BASINS 5 STAR 5. ASSOCIATED WITH THE ABOVE STAR RATINGS OF FIXTURES, THE ROOF WATER AND RETENTION IS TO BE REUSED FOR TOILETS, URINALS AND GARDEN. 6. REFER TO DRAWING C.36 FOR FULL WATER REDUCTION CALCULATIONS ASSOCIATED WITH THE DEVELOPMENT.
5.2.1 ON-SITE RETENTION	STORMWATER STORAGE CAPACITY OF 1.4kL PER 100m ² OF TOTAL IMPERVIOUS AREA IS PROVIDED.	1. THE PROPOSED SITE IS GREATER THAN 2,000m ² AND THEREFORE REQUIRES ON-SITE RETENTION. 2. 1.4kL OF SITE STORAGE IS REQUIRED PER 100m ² OF IMPERVIOUS AREA. 2.1. 2,893m ² OF IMPERVIOUS AREA REQUIRES MINIMUM 41kL OF OSR. 3. ON-SITE RETENTION IS ADDRESSED ON A SITE WIDE BASIS: 3.1. 65kL OF OSR TO SERVICE THE SITE. 4. THE TOTAL RETAINED VOLUME IS TO BE REUSED TO TOILETS, URINALS AND GARDEN.
5.2.2 ON-SITE DETENTION	PROVIDE STORMWATER DETENTION MEASURES DESIGNED TO DETAIL WATER AND RELEASE IT OVER ONE TO THREE DAYS; WITH A MINIMUM CAPACITY OF 1kL PER 100m ² OF TOTAL IMPERVIOUS AREA. CALCULATING ON-SITE DETENTION CAN INCLUDE 50% OF THE VOLUME OF OSR WHERE THE WATER IS REUSED ON-SITE.	1. THE PROPOSED SITE IS GREATER THAN 2,000m ² AND THEREFORE REQUIRES ON-SITE DETENTION. 2. 1.0kL OF SITE STORAGE IS REQUIRED PER 100m ² OF IMPERVIOUS AREA. 2.1. 2,893m ² OF IMPERVIOUS AREA REQUIRES MINIMUM 29kL OF OSD. 3. ON-SITE DETENTION REQUIRED IS INCLUDED BY 50% OF THE VOLUME OF OSR.
5.3.1 STORMWATER QUALITY	DEVELOPMENTS GREATER THAN 2,000m ² IN AREA MUST ACHIEVE POLLUTANT LOAD REDUCTIONS COMPARED WITH AN URBAN CATCHMENT OF THE SAME AREA WITH NO WATER QUALITY MANAGEMENT CONTROLS. REDUCING: - GROSS POLLUTANTS BY AT LEAST 90% MEAN ANNUAL LOAD - SUSPENDED SOLIDS BY AT LEAST 60% OF THE MEAN ANNUAL LOAD - TOTAL PHOSPHOROUS BY AT LEAST 45% OF THE MEAN ANNUAL LOAD - TOTAL NITROGEN BY AT LEAST 40% OF THE MEAN ANNUAL LOAD	1. STORMWATER QUALITY IS ACHIEVED THROUGH THE INSTALLATION OF 65kL OSR FOR REUSE. REFER TO MUSIC MODEL EXTRACT.
5.4.2 SUPPORTING GREEN/LIVING INFRASTRUCTURE IN THE ACT	DEVELOPMENT IS REQUIRED TO MEET A MINIMUM 20% TARGET OF PERMEABLE SURFACE AREA.	1. THE 20% Pervious Area Requirement doesn't appear to be achieved. WSUD calculations have been based on the impervious areas of the development proposed.

20% PERVIOUS SITE AREA APPEARS NOT TO BE APPLICABLE. TO BE CONFIRMED BY OTHERS.



N.T.S.

1. MUSIC MODEL SHOWS A NETREDUCTION IN ANNUAL STORMWATER DISCHARGE FROM STRATUM B DEVELOPMENT OF 82.7%. MEETING THE GREENSTAR CREDIT 39a REQUIREMENT OF MINIMUM 40% REDUCTION OF NET ANNUAL DISCHARGE WHEN COMPARED STORMWATER THAT WOULD BE DISCHARGED WITHOUT HARVESTING AND RETENTION.
2. REUSE FROM THE OSR TANK HAS BEEN INPUT INTO THE MUSIC MODEL AS PER THE REUSE FROM THE EPSDD CALCULATOR SHOWN ON DRAWING C.36.

Average L/day	0	0	0	3,756
Average L/year	0	0	0	1,370,967
Total L	0	0	0	13,717,183

N.T.S.

Average L/day	2,700	523	17	509
Average L/year	985,646	191,033	6,028	185,750
Total L	9,861,864	1,911,381	60,310	1,858,513

N.T.S.

1. EPSSD CALCULATORS SHOW A NET REDUCTION IN ANNUAL STORMWATER DISCHARGE FROM STRATUM B DEVELOPMENT OF 42%. MEETING THE GREENSTAR CREDIT 39a REQUIREMENT OF MINIMUM 40% REDUCTION OF NET ANNUAL DISCHARGE WHEN COMPARED STORMWATER THAT WOULD BE DISCHARGED WITHOUT HARVESTING AND RETENTION.

JPW



60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

WSUD
NOTES AND DETAILS
(SHEET 02 OF 02)

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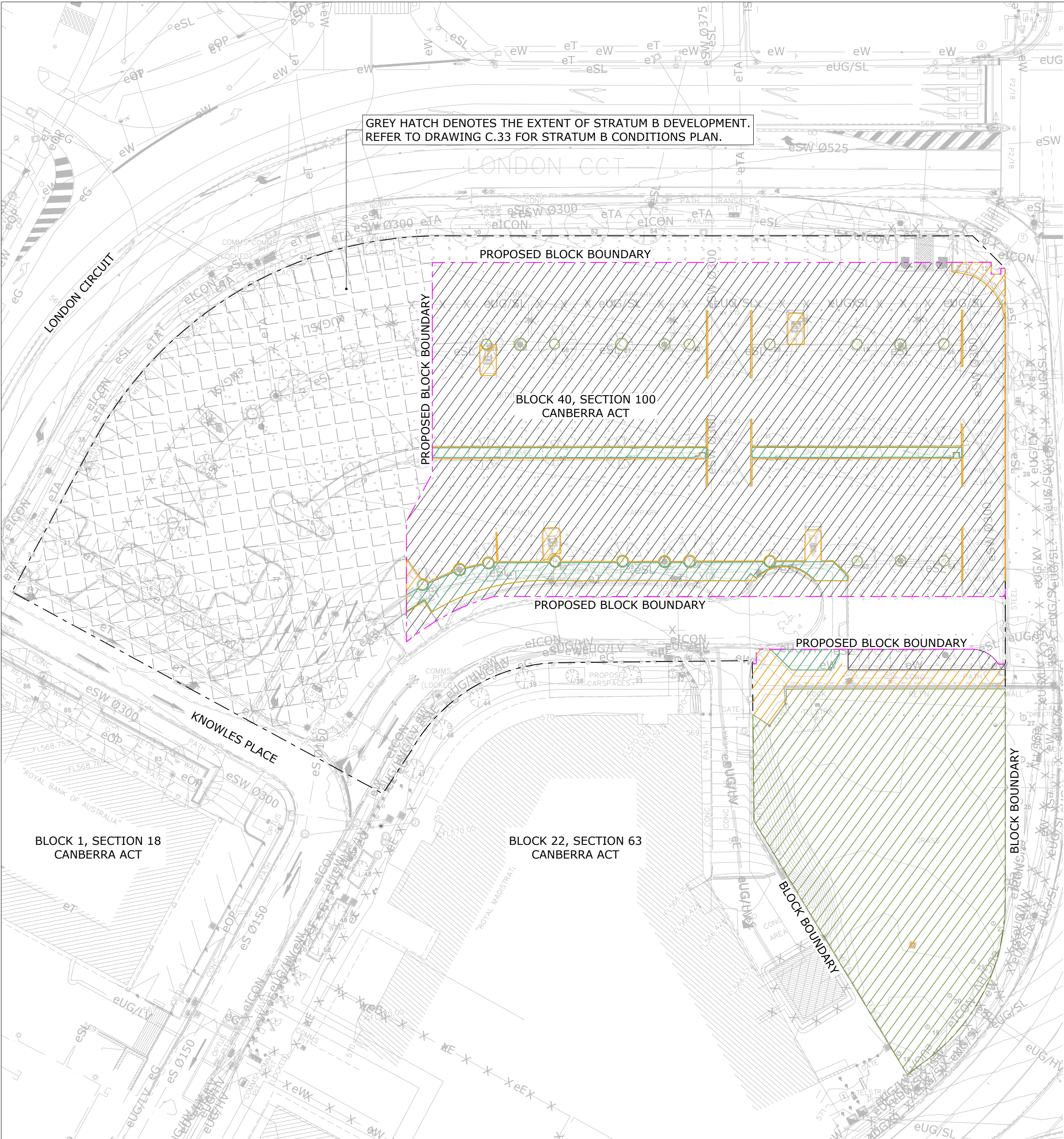
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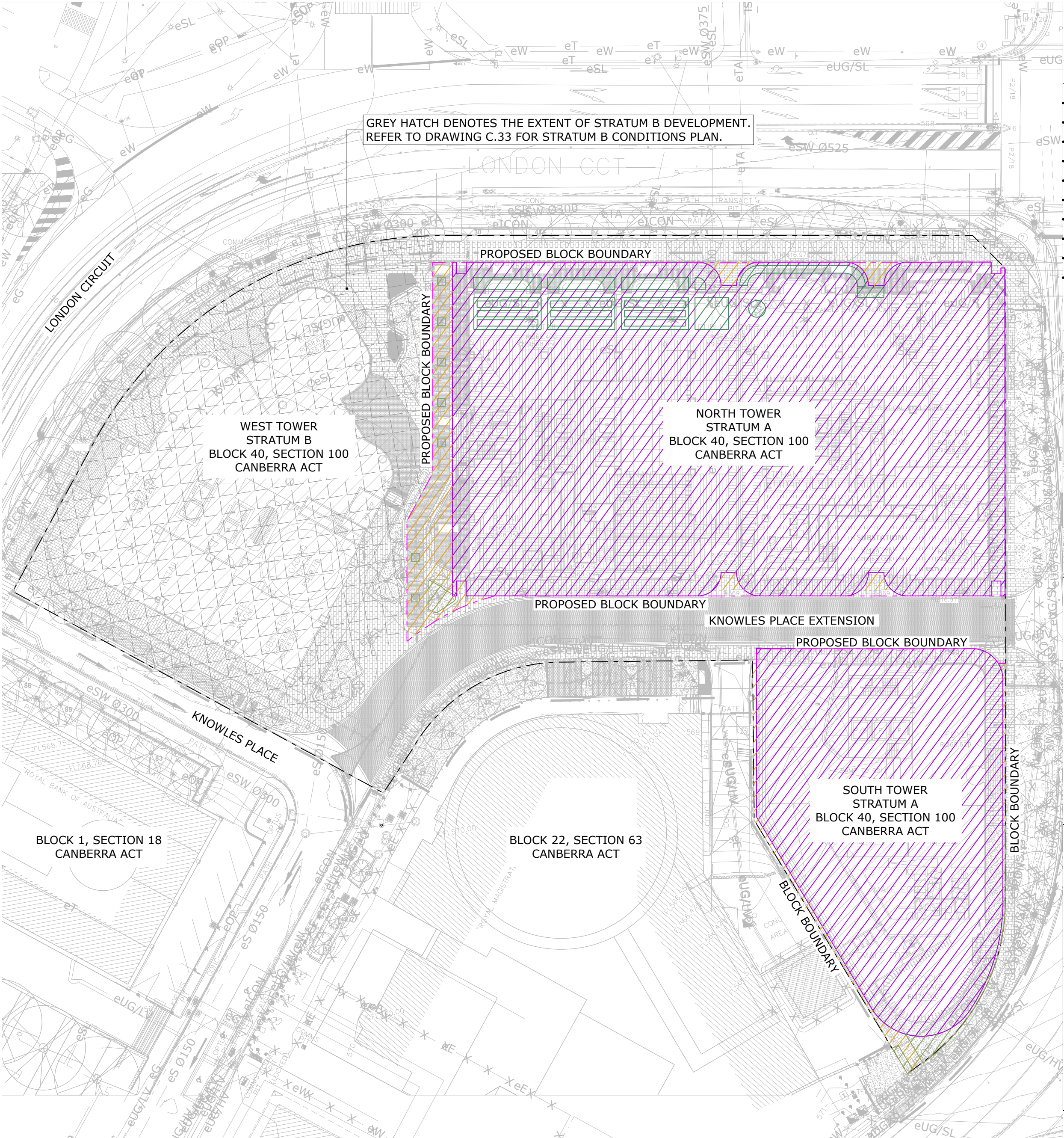
WSUD - EXISTING CONDITIONS PLAN - STRATUM A (NORTH & SOUTH TOWER)
1:500 @ A1

STRATUM A - TOTAL EXISTING SITE CONDITIONS FOR BLOCK 40, SECTION 100:

1. TOTAL STRATUM A SITE AREA = 6,628m²
2. TOTAL PERVIOUS AREA = 2,069m² (31.2%)
 - 2.1. LANDSCAPE AREA = 1,750m²
 - 2.2. GRAVEL AREA = 319m²
3. TOTAL IMPERVIOUS AREA = 4,559m² (68.8%)
 - 3.1. VEHICULAR PAVEMENT AREA = 4,261m²
 - 3.2. PEDESTRIAN PAVEMENT AREA = 298m²

STRATUM A - TOTAL PROPOSED SITE CONDITIONS FOR BLOCK 40, SECTION 100:

4. TOTAL STRATUM A SITE AREA = 6,628m²
5. TOTAL PERVIOUS AREA = 247m² (3.7%)
 - 5.1. LANDSCAPE AREA (GF) = 58m²
 - 5.2. LANDSCAPE AREA (ROOF) = 189m²
6. TOTAL IMPERVIOUS AREA = 6,381m² (96.3%)
 - 6.1. ROOF AREA = 6,020m²
 - 6.2. PEDESTRIAN PAVEMENT AREA = 361m²



WSUD - PROPOSED CONDITIONS PLAN - STRATUM A (NORTH & SOUTH TOWER)
1:500 @ A1

*NOTE: THE PROPOSED BLOCK BOUNDARY SHOWN REPRESENTS THE BUILDING STRATUM AS OPEN TO SKY AND INCLUDES AREAS OF THE BUILDING THAT PROJECT OUT OVER THE PROPOSED BLOCK BOUNDARY AT GROUND FLOOR.

DISCIPLINE:

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KEY PLAN

LEGEND:

ROOF

PEDESTRIAN PAVEMENT

VEHICULAR PAVEMENT

GRAVEL

LANDSCAPE (GF)

LANDSCAPE (ROOF)

CATCHMENT EXTENTS

Vital Design Solutions

HYDRAULIC CIVIL FIRE

CANBERRA - GROUND FLOOR, 20 SPONGOLITE STREET, BEARD ACT 2620

MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006

Tel 02 6297 2765 Email admin@vdsol.com.au Web vdsol.com.au

ABN 45 151 340 788 ACN 151 340 788

ARCHITECT

JPW

CLIENT

ConstructionControl

PROJECT

60 LONDON CIRCUIT

BLOCK 40 SECTION 100

60 LONDON CIRCUIT

CANBERRA ACT

DRAWING TITLE

WSUD

EXISTING VS PROPOSED

CONDITIONS PLAN - STRATUM A

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C.32

DESIGNED

S.GWYNNE

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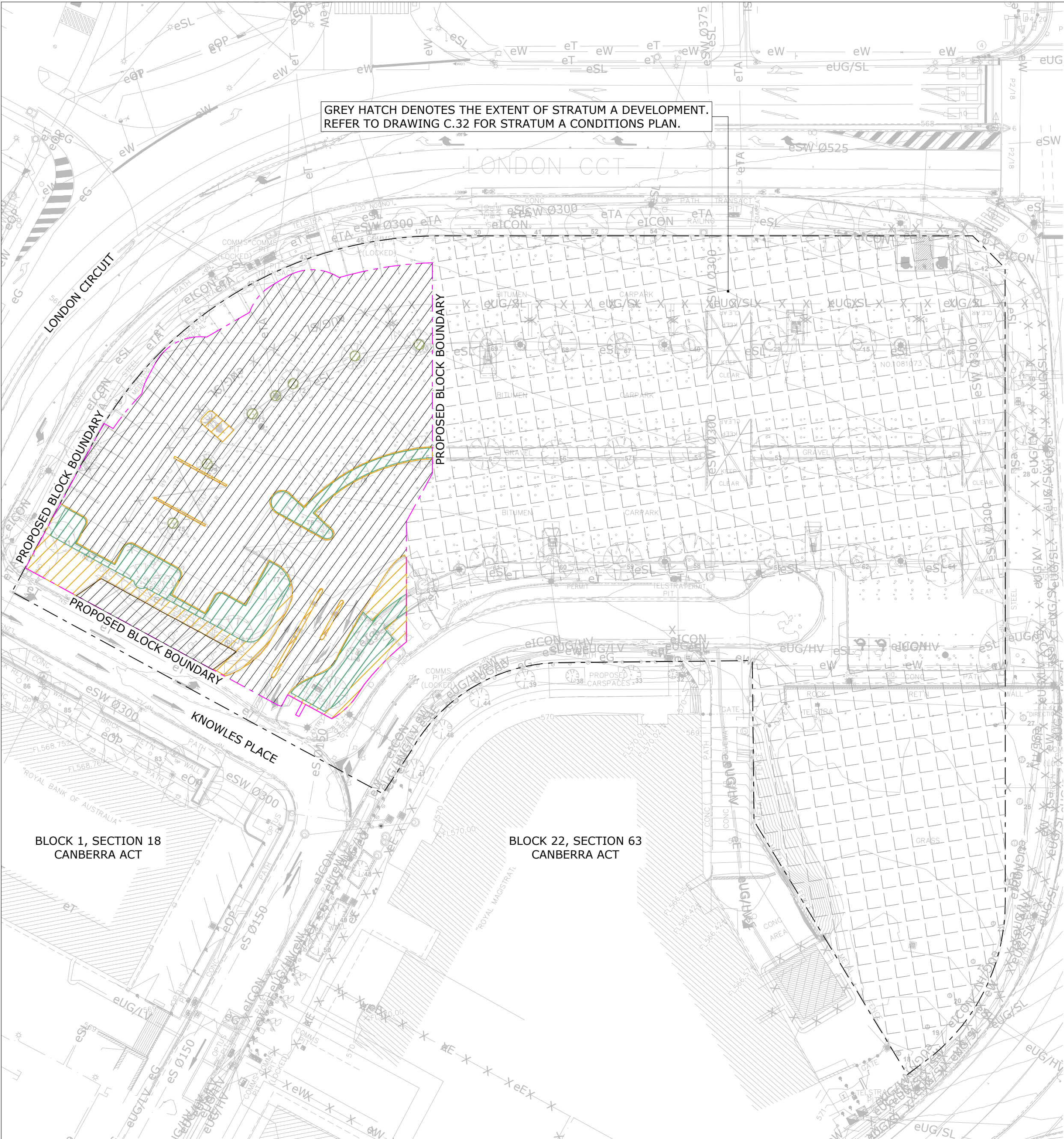
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ISSUE

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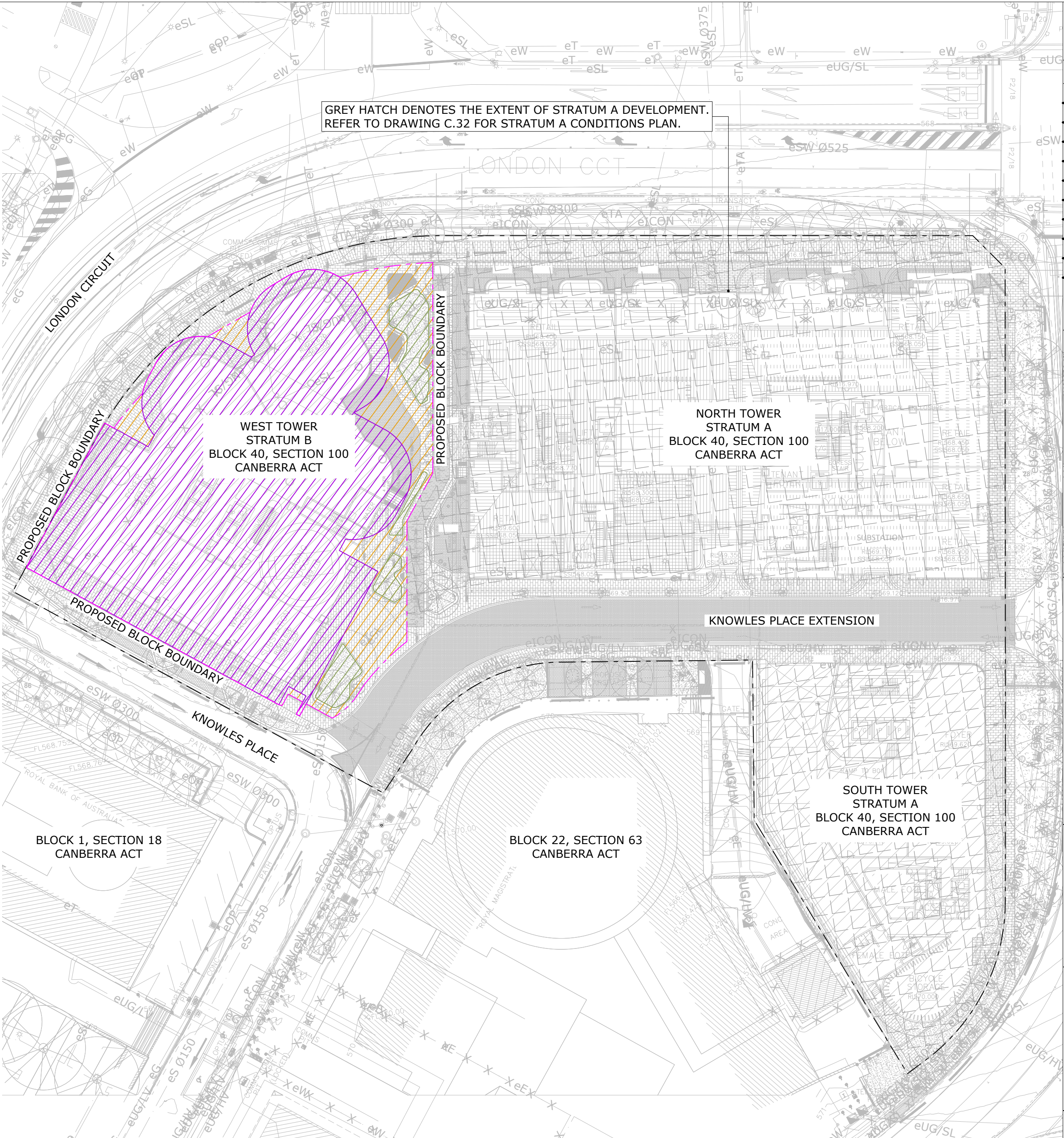
3



WSUD - EXISTING CONDITIONS PLAN - STRATUM B (WEST TOWER)
1:500 @ A1

- STRATUM B - TOTAL EXISTING SITE CONDITIONS FOR BLOCK 40, SECTION 100:**
1. TOTAL STRATUM B SITE AREA = 2,893m²
 2. TOTAL PERVIOUS AREA = 324m² (11.2%)
 - 2.1. LANDSCAPE AREA = 13m²
 - 2.2. GRAVEL AREA = 311m²
 3. TOTAL IMPERVIOUS AREA = 2,569m² (88.8%)
 - 3.1. VEHICULAR PAVEMENT AREA = 2,301m²
 - 3.2. PEDESTRIAN PAVEMENT AREA = 268m²

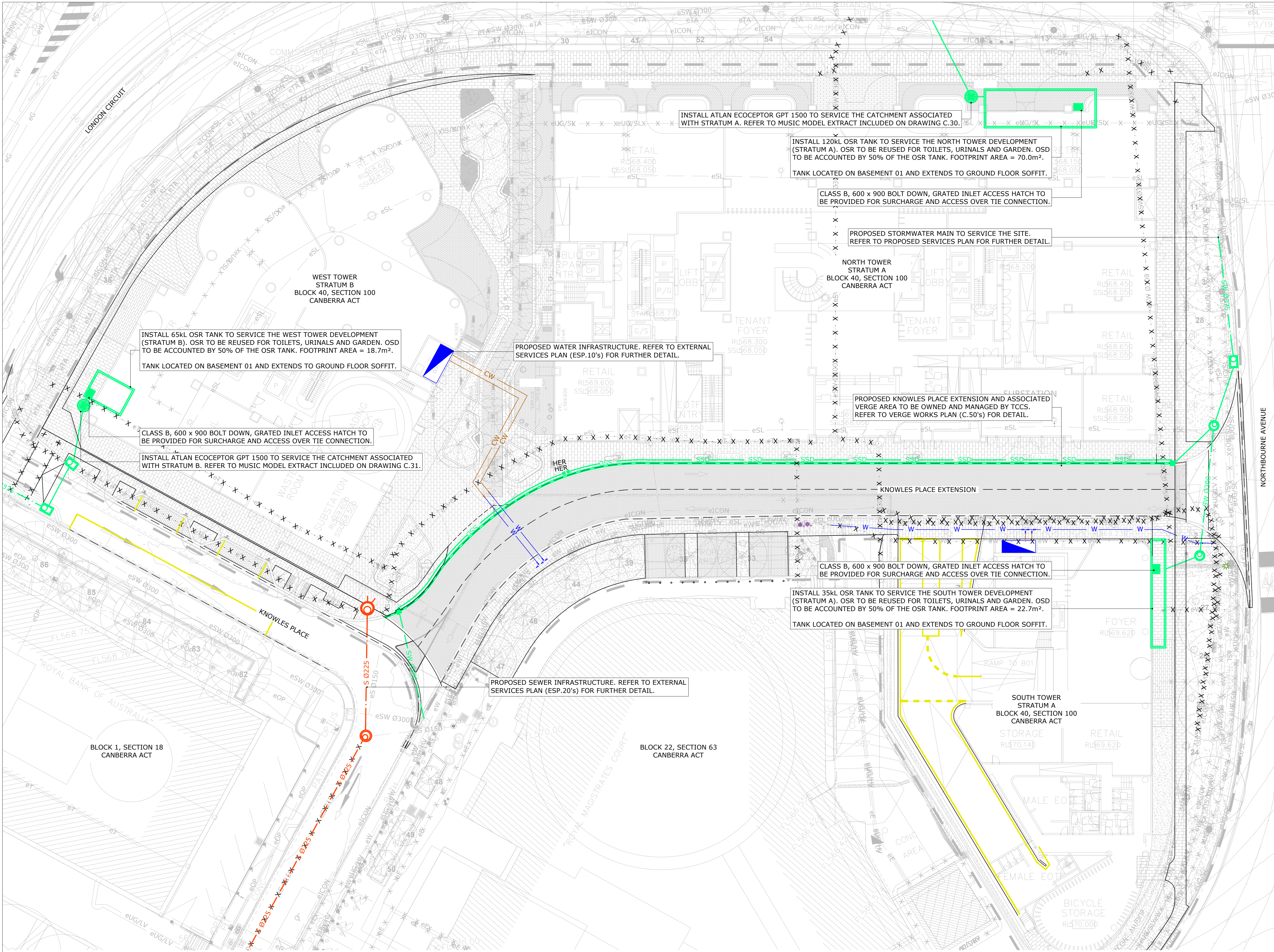
- STRATUM B - TOTAL PROPOSED SITE CONDITIONS FOR BLOCK 40, SECTION 100:**
4. TOTAL STRATUM B SITE AREA = 2,893m²
 5. TOTAL PERVIOUS AREA = 133m² (4.6%)
 - 5.1. LANDSCAPE AREA (GF) = 133m²
 - 5.2. LANDSCAPE AREA (ROOF) = 0m²
 6. TOTAL IMPERVIOUS AREA = 2,760m² (95.4%)
 - 6.1. ROOF AREA = 2,340m²
 - 6.2. PEDESTRIAN PAVEMENT AREA = 420m²



WSUD - PROPOSED CONDITIONS PLAN - STRATUM B (WEST TOWER)
1:500 @ A1

*NOTE, THE PROPOSED BLOCK BOUNDARY SHOWN REPRESENTS THE BUILDING STRATUM AS OPEN TO SKY AND INCLUDES AREAS OF THE BUILDING THAT PROJECT OUT OVER THE PROPOSED BLOCK BOUNDARY AT GROUND FLOOR.

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KEY PLAN				
LEGEND:				
ROOF				
PEDESTRIAN PAVEMENT				
VEHICULAR PAVEMENT				
GRAVEL				
LANDSCAPE (GF)				
LANDSCAPE (ROOF)				
CATCHMENT EXTENTS				
Vital Design Solutions HYDRAULIC CIVIL FIRE				
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ARCHITECT				
JPW				
CLIENT				
ConstructionControl				
PROJECT				
60 LONDON CIRCUIT BLOCK 40 SECTION 100 60 LONDON CIRCUIT CANBERRA ACT				
DRAWING TITLE				
WSUD EXISTING VS PROPOSED CONDITIONS PLAN - STRATUM B				
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DESIGNED			DRAFTED	
S.GWYNNE			Z.LIU	
SCALE			0 5.0 10.0 15.0m	
SCALE			1:500	
SIZE			A1	
ISSUE			REVISION	
NOT FOR CONSTRUCTION			3	



WSUD - GENERAL ARRANGEMENT PLAN - GROUND LEVEL
1:250 @ A1

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HYDRAULIC CIVIL FIRE

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Fax 02 6299 2316 Web vital.com.au ACN 351 340 788

ARCHITECT

JPW

CLIENT

ConstructionControl

PROJECT

**60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT**

DRAWING TITLE

**WSUD
GENERAL ARRANGEMENT PLAN
GROUND FLOOR**

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.34

DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

SCALE

1:250

SIZE

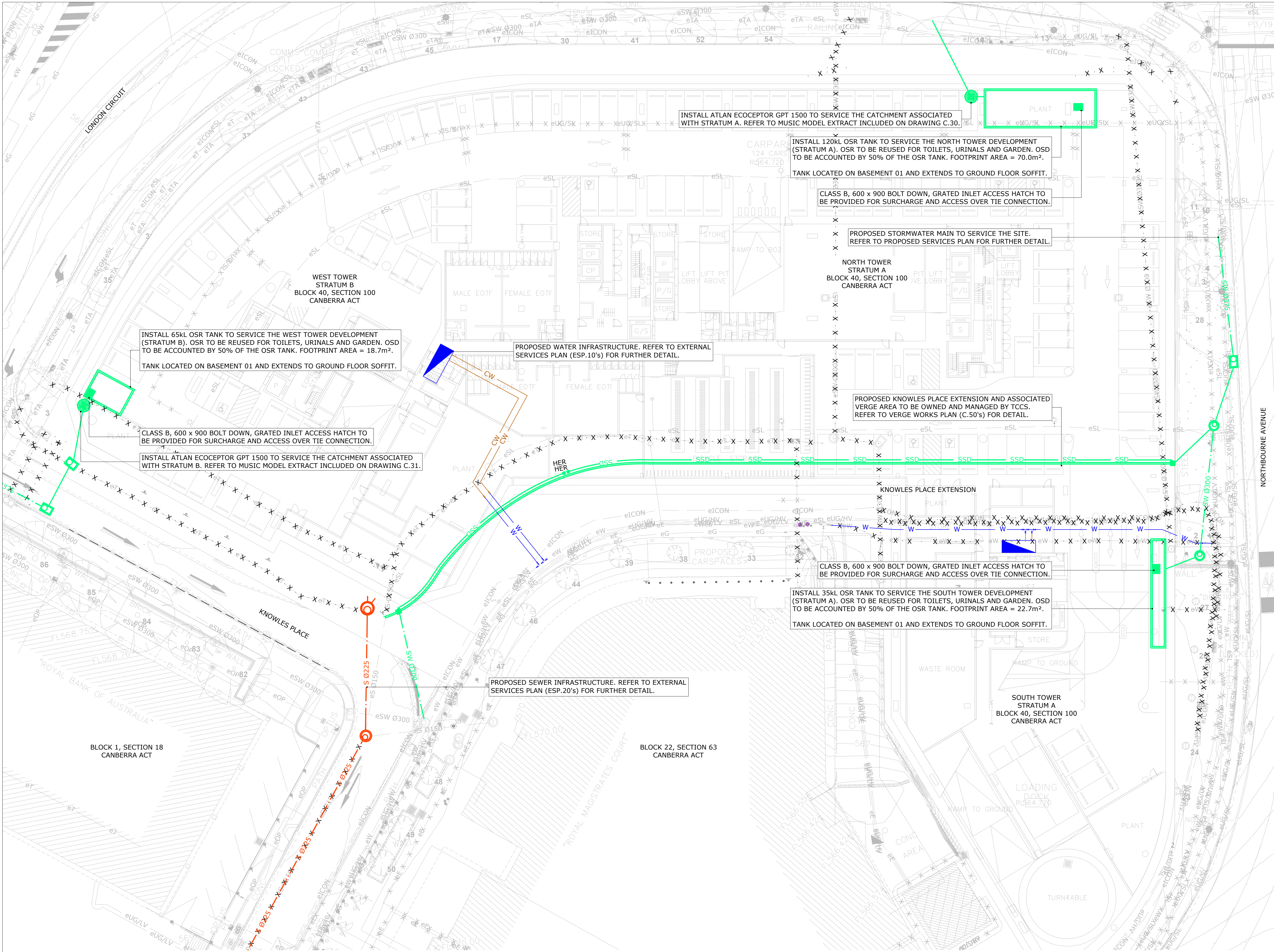
A1

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WSUD - GENERAL ARRANGEMENT PLAN - BASEMENT 01
1:250 @ A1

DISCIPLINE:

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REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	Z.L.	S.G.	11/02/25
2	PRELIMINARY	A.N.	S.G.	26/03/25
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KEY PLAN

Vital Design Solutions

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ARCHITECT

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PROJECT

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BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

WSUD
GENERAL ARRANGEMENT PLAN
BASEMENT 01

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DRAWING NUMBER

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DESIGNED

S.GWYNNE

DRAFTED

Z.LIU

SCALE

SCALE

1:250

SIZE

A1

ISSUE

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WARNING:
THE LOCATION OF EXISTING SERVICES SHOWN ARE ESTIMATES ONLY. THESE ESTIMATES HAVE BEEN DEVELOPED FROM INFORMATION PROVIDED BY SERVICING AUTHORITIES AND PREVIOUS DOCUMENTATION ASSOCIATED WITH THE DEVELOPMENT. THE LOCATIONS SHOWN ON THIS DRAWING ARE NOT TO BE RELIED UPON FOR CONSTRUCTION WORKS. INFORMATION SHOWN IS TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.

VITAL DESIGN SOLUTIONS DOES NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN SHOWS MORE THAN PRESENCE OR ABSENCE OF A SERVICE. VITAL DESIGN SOLUTIONS ACCEPTS NO LIABILITIES FOR INACCURACIES SHOWN.

DEPTH OF SERVICE IS ASSUMED TO BE:

600mm < DEPTH < 1000mm
UNLESS SHOWN OTHERWISE ON PLAN. REFER TO DRAWING C.01A FOR EXISTING IN GROUND SERVICE INFORMATION AS PROVIDED THROUGH POTHOLE SURVEY.

CONTRACTOR IS TO LIAISE WITH AUTHORITIES REGARDING SERVICES LOCATION AND UNDERTAKE SAFE POT HOLING TO CONFIRM LOCATION AND DEPTH OF EXISTING SERVICES PRIOR TO CONSTRUCTION.

STAGE 1:
CUT: ~82,275m³ (APPROXIMATELY - EARTHWORKS CONTRACTOR TO UNDERTAKE OWN CALCULATIONS).
• THE CUT VOLUME IS BASED ON 80mm BEDDING UNDER THE BASEMENT SLAB, IF THIS IS REDUCED THE CUT VOLUME CAN BE REDUCED BY THE DIFFERENCE IN DEPTH BY THE RELEVANT AREA.
FILL: ~0m³ (APPROXIMATELY - EARTHWORKS CONTRACTOR TO UNDERTAKE OWN CALCULATIONS).

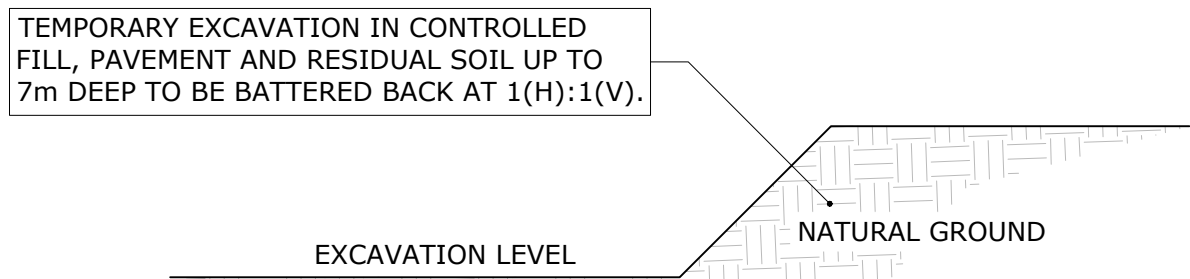
STAGE 2:
CUT: ~10,911m³ (APPROXIMATELY - EARTHWORKS CONTRACTOR TO UNDERTAKE OWN CALCULATIONS).
• THE CUT VOLUME IS BASED ON 80mm BEDDING UNDER THE BASEMENT SLAB, IF THIS IS REDUCED THE CUT VOLUME CAN BE REDUCED BY THE DIFFERENCE IN DEPTH BY THE RELEVANT AREA.
FILL: ~0m³ (APPROXIMATELY - EARTHWORKS CONTRACTOR TO UNDERTAKE OWN CALCULATIONS).

CUT VOLUME IS BASED ON IN-SITU CALCULATIONS OF BASEMENT EXCAVATION ONLY. NO ALLOWANCES HAS BEEN MADE FOR BULKING FACTORS OR TOPSOIL.

- GENERAL NOTES:**
- DRAWING TO BE READ IN CONJUNCTION WITH C.90 DRAWING SERIES.
 - BULK EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT(S).
 - THE FOLLOWING NOTES ARE A BRIEF SUMMARY OF THE FINDINGS AND SUGGESTIONS INDICATED IN THE GEOTECHNICAL REPORTS AND MEMORANDUMS LISTED BELOW.
 - BULK EARTHWORKS CALCULATIONS ARE BASED OFF AN APPROXIMATION OF THE EXISTING SURFACE.
 - ASSUMED 80mm BEDDING UNDER SOG AND 180mm SLAB UNDER SSL (TBC).
 - THE FOLLOWING SUMMARY NOTES ARE TAKEN FROM THE BELOW GEOTECHNICAL INVESTIGATION REPORTS WITH THE LATEST INFORMATION TAKING PRECEDENCE, ANY DETAIL TAKEN FROM THE BELOW IS TO BE REVIEWED AGAINST THE RELEVANT GEOTECHNICAL REPORT:
 - DOUGLAS PARTNERS PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT - JULY 2008.
 - D&N GEOTECHNICAL - GEOTECHNICAL INVESTIGATION REPORT - 09 MARCH 2021.
 - D&N GEOTECHNICAL - PROJECT MEMORANDUM - DESIGN PHASE A - 17 JULY 2024.
 - D&N GEOTECHNICAL - PROJECT MEMORANDUM - DESIGN PHASE M2 - 12 AUGUST 2024.
 - D&N GEOTECHNICAL - GEOTECHNICAL PRELIMINARY DESIGN - SHORING WALL - 30 AUGUST 2024.

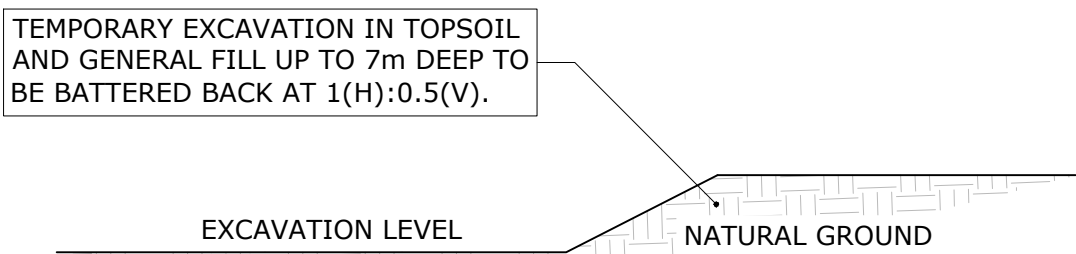
- SUBSURFACE CONDITIONS:**
- ASPHALTIC CONCRETE AND ROADBASE EXIST TO DEPTHS OF 0.2m-0.35m.
 - SILTY SANDY CLAY BELOW EXISTING PAVEMENT TO 0.75m DEEP.
 - SILTY CLAY GRADING INTO EXTREMELY WEATHERED SILTSTONE FROM 1.4m DEPTH CONTINUING TO 1.9m DEPTH.
 - EXTREMELY LOW TO VERY LOW STRENGTH, EXTREMELY TO HIGHLY WEATHERED, YELLOW BROWN AND BROWN SILTSTONE TO THE LEVEL OF TUNGSTEN-CARBIDE BIT REFUSAL AT 2.3-2.5m. THE ROCK AT TC-BIT REFUSAL GRADED FROM GENERALLY MEDIUM STRENGTH, MODERATELY WEATHERED, HIGHLY TO SLIGHTLY FRACTURED INTO HIGH TO VERY HIGH STRENGTH, FRESH STAINED TO FRESH, SLIGHTLY FRACTURED TO UNBROKEN BELOW 7 – 9m CONTINUING TO THE FULL DEPTH OF INVESTIGATION 25.0m – 25.4m.
 - REFER TO TABLE 1 IN 'D&N GEOTECHNICAL - PROJECT MEMORANDUM - DESIGN PHASE A - 17 JULY 2024' FOR DETAILED ASSESMENT.

- GROUNDWATER:**
- DOUGLAS PARTNERS 2008 REPORT:
 - TWO GROUNDWATER MONITORING WELLS INSTALLED TO 24m DEPTH.
 - GROUNDWATER LEVELS FOUND TO BE 12.4m TO 12.7m BELOW GROUND LEVEL.
 - SHORT-TERM CONTROL RECOMMENDED VIA SUMP PUMPING; LONG-TERM SOLUTIONS INCLUDED PERIMETER AND UNDERFLOOR DRAINAGE, WITH POTENTIAL TANKING.
 - NO PERMEABILITY PUMP TESTS WERE CONDUCTED.
 - FURTHER GROUNDWATER INVESTIGATIONS RECOMMENDED.
 - D&N GEOTECHNICAL 2021 REPORT:
 - NO INFLOWS DETECTED ABOVE 6M DEPTH DURING AUGER DRILLING.
 - NO LONG-TERM GROUNDWATER MONITORING CONDUCTED.
 - NOTED POSSIBILITY OF INFILTRATION AND PERCHED SEEPAGES.
 - D&N GEOTECHNICAL 2024 INVESTIGATION:
 - GROUNDWATER LEVELS OBSERVED AT 12.2m (RL 556.9m) AND 13.8m (RL 556.5m) ON 16 JULY 2024.
 - HYDROSTATIC GROUNDWATER LEVEL ESTIMATED BETWEEN 1-3m BELOW PROPOSED FLOOR LEVEL AT 11m DEPTH, OUTSIDE THE INFLENCE OF PROJECT WORKS.
 - PERCHED SEEPAGES POSSIBLE, TYPICALLY FOLLOWING JOINTING/WEATHERED ZONES IN ROCK MASS, TRANSPORTING SURFACE INFILTRATION TO LOWER LAYERS.
 - D&N GEOTECHNICAL - GEOTECHNICAL PRELIMINARY DESIGN - SHORING WALL - 30 AUGUST 2024:
 - HYDROSTATIC GROUNDWATER LEVEL SET AT 11.8 M BELOW SURFACE LEVEL.
 - RU METHOD ADOPTED WITH A VALUE OF 0.15 TO ACCOUNT FOR PERCHED GROUNDWATER INFLOWS.
 - PORE PRESSURE EQUAL TO 15% OF EFFECTIVE VERTICAL STRESS APPLIED WITHIN THE MODEL TO MANAGE PERCHED INFLOWS.
 - DEWATERING REQUIRED DURING CONSTRUCTION TO REMOVE WATER FROM:
 - RAINFALL AND RUNOFF.
 - PERCHED SEEPAGE POINTS WITHIN THE PROFILE.
 - PERMANENT DEWATERING CONDITIONS OUTLINED IN HERA BASIS OF DESIGN, INCLUDING SUMP PUMPING FOR PERCHED SEEPAGES CAPTURED BY SHORING WALL SYSTEM.
 - BULK EXCAVATION SURFACE TO BE GRADED WITH COLLECTION DRAINS AND DIRECTED TO A SUMP.
 - A PERMEABLE GRAVEL DRAINAGE LAYER REQUIRED BELOW THE B03 FLOOR LEVEL.



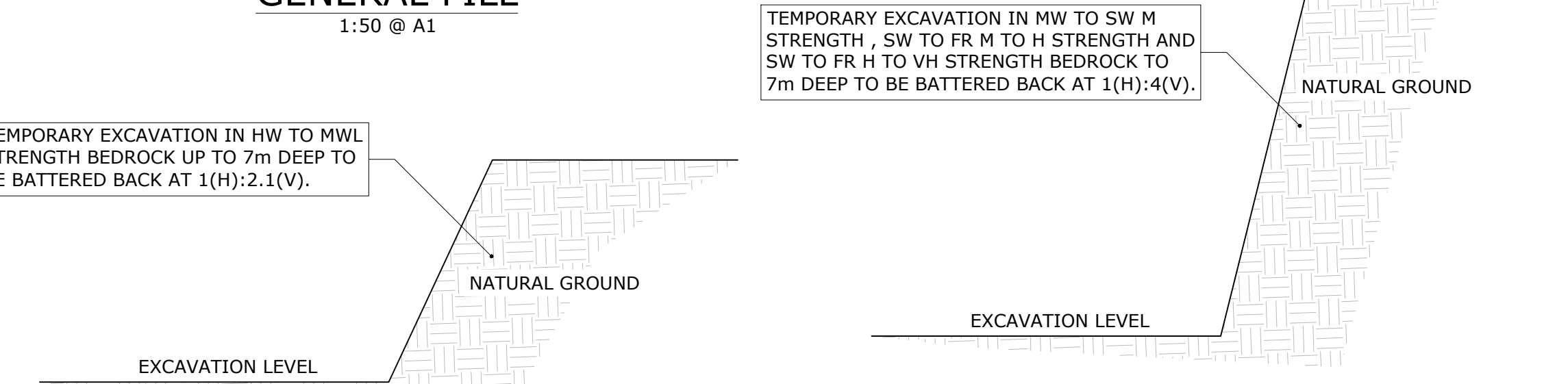
TEMPORARY BATTER IN CONTROLLED FILL, PAVEMENT AND RESIDUAL SOIL

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TEMPORARY BATTER IN TOPSOIL AND GENERAL FILL

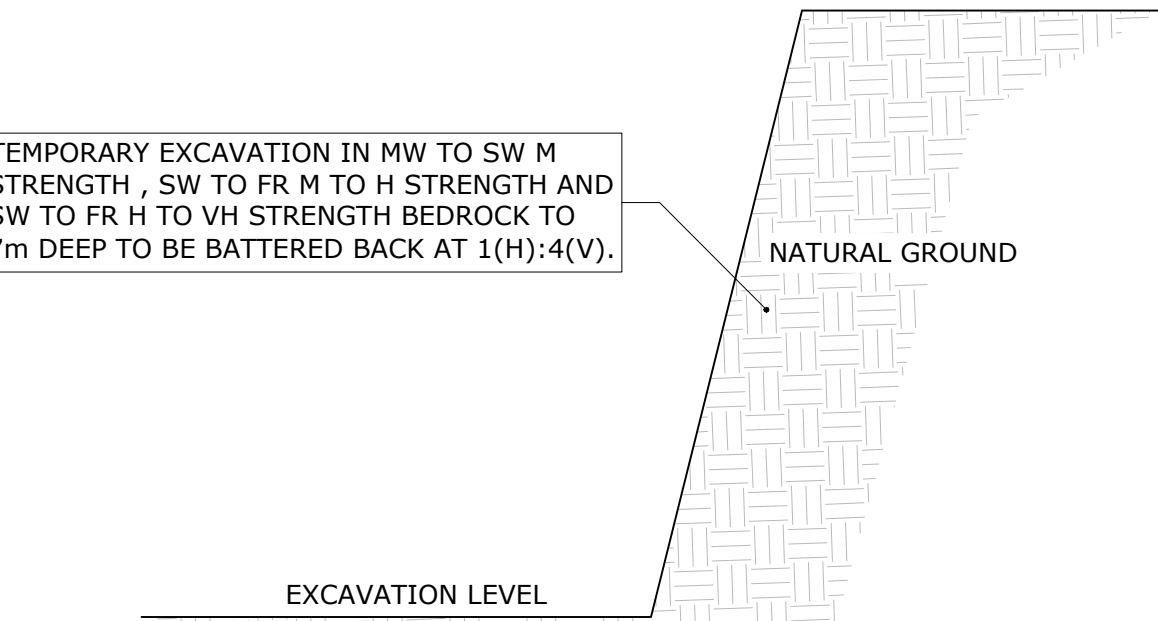
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TEMPORARY BATTER IN HW TO MWL STRENGTH BEDROCK

1:50 @ A1

TEMPORARY EXCAVATION IN MW TO SW M STRENGTH , SW TO FR M TO H STRENGTH AND SW TO FR H TO VH STRENGTH BEDROCK TO 7m DEEP TO BE BATTERED BACK AT 1(H):4(V).



TEMPORARY BATTER IN MW TO SW M STRENGTH , SW TO FR M TO H STRENGTH AND SW TO FR H TO VH STRENGTH BEDROCK

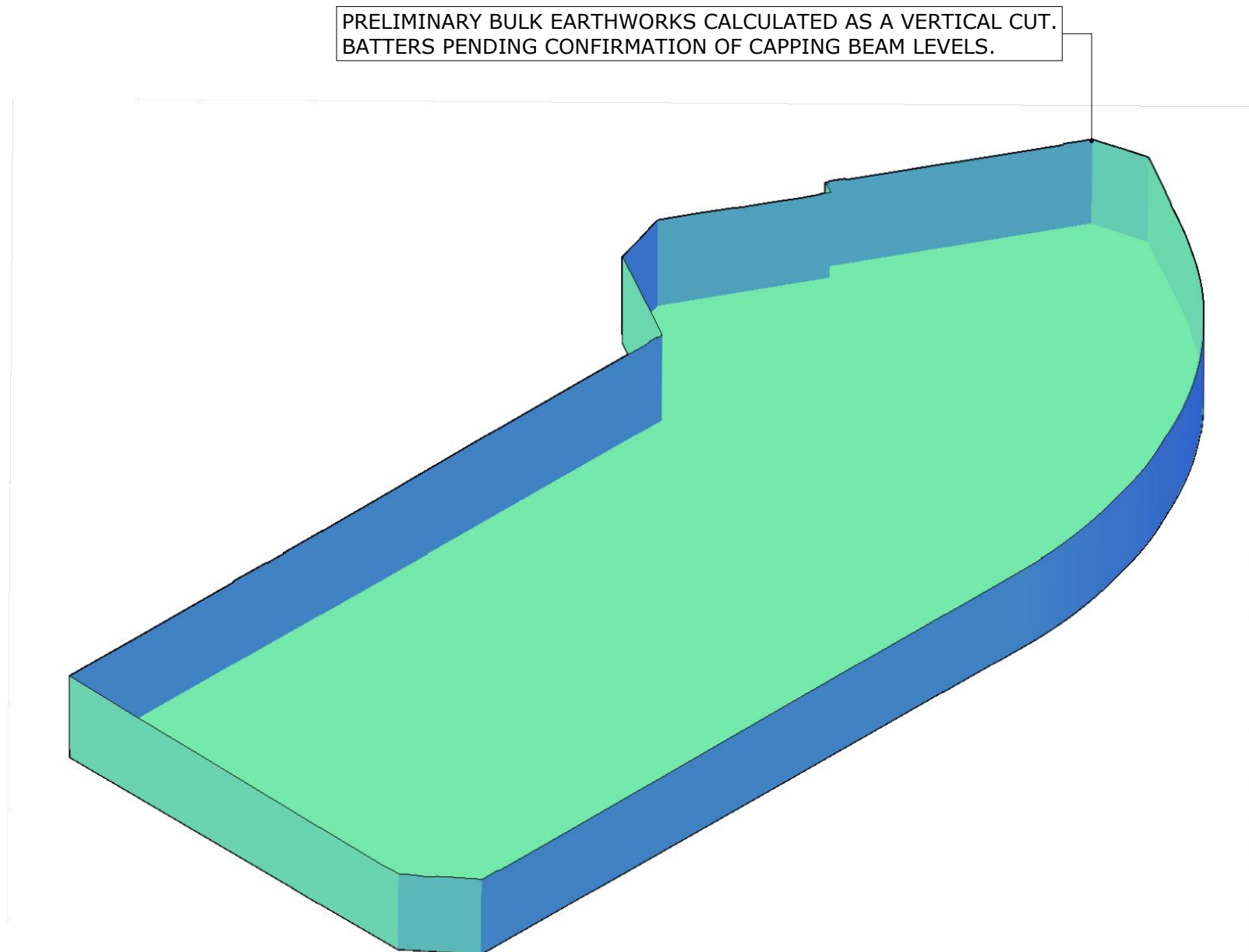
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ABBREVIATIONS:
CPB
BEL
EXT
SSL
SFL
FFL
SOG
XW
HW
VL
L
MW
SW
M
H
FR

CAPPING BEAM LEVEL (TOP)
BULK EXCAVATION LEVEL
EXTERNAL SURFACE LEVEL
STRUCTURE SLAB LEVEL
STRUCTURE FLOOR LEVEL
FINISHED FLOOR LEVEL
SLAB ON GROUND
EXTREMELY WEATHERED
HIGHLY WEATHERED
VERY LOW
LOW
MODERATELY WEATHERED
SLIGHTLY WEATHERED
MEDIUM
HIGH
FRESH WEATHERED

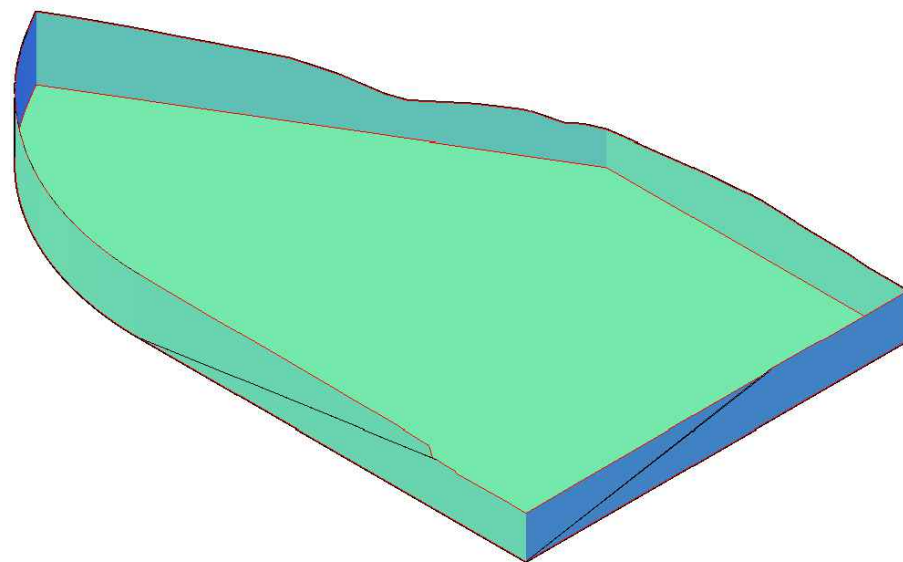
LEGEND

SERVICE	EXISTING	PROPOSED
WATER MAIN	eW	W
COLD WATER	cW	SD
SANITARY DRAINAGE	eS	S
SEWER MAIN	eSRM	SW
SEWER RISING MAIN	eSW	
STORMWATER MAIN	eG	
GAS MAIN	eE	
ELECTRICITY	eUG/HV	
ELECTRICITY UG/HV	eUG/LV	
ELECTRICITY UG/LV	eSL	
STREETLIGHT MAIN	eOP	
OPTUS MAIN	eT	
TELSTRA MAIN	eTA	
TRANSACT MAIN	eC	
COMMUNICATIONS	X-X-ØØ-X-X	
ABANDONED SERVICE		
BLOCK BOUNDARY		
PROPOSED MAJOR CONTOUR (0.5m INTERVAL)		
PROPOSED MINOR CONTOUR (0.1m INTERVAL)		



BULK EARTHWORKS MODEL EXTRACT VIEW FROM NORTHEAST - STAGE 1

NTS



BULK EARTHWORKS MODEL EXTRACT VIEW FROM NORTHEAST - STAGE 2

NTS

DISCIPLINE:

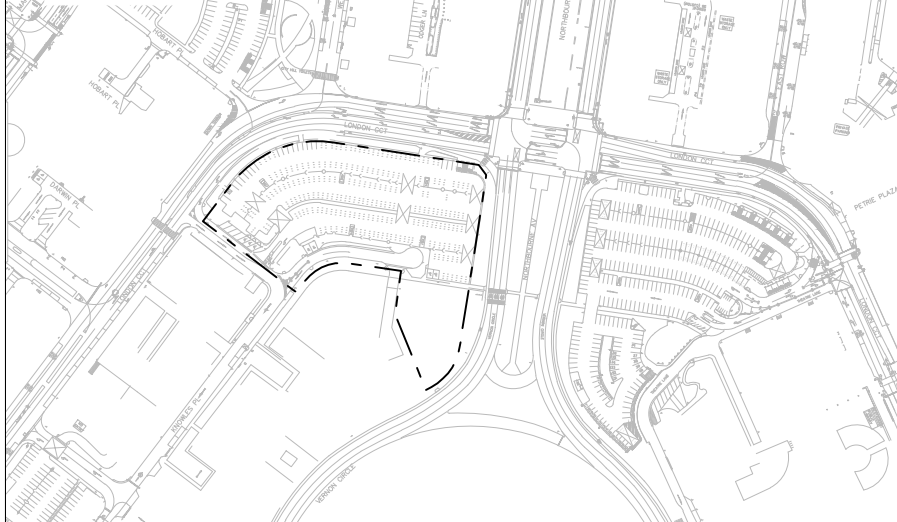
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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

BULK EARTHWORKS
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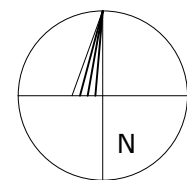
JOB REFERENCE
VS24086

DRAWING NUMBER
C.90

DESIGNED S.SCHUPFER

DRAFTED Z.LIU

SCALE



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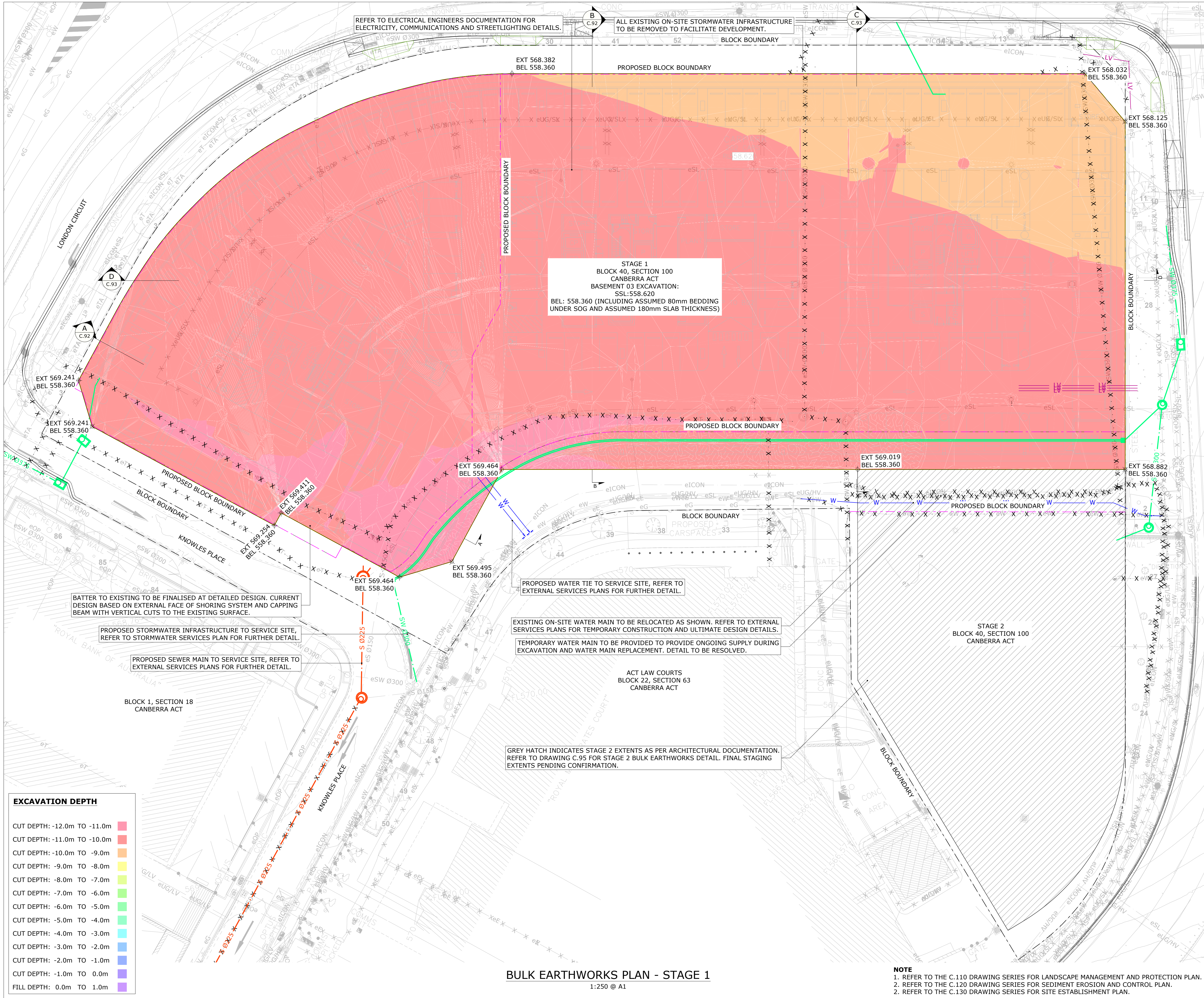
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PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

BULK EARTHWORKS
GENERAL ARRANGEMENT PLAN
STAGE 1

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S.SCHUPFER

DRAFTED

Z.LIU

SCALE

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SCALE

1:250

SIZE

A1

ISSUE

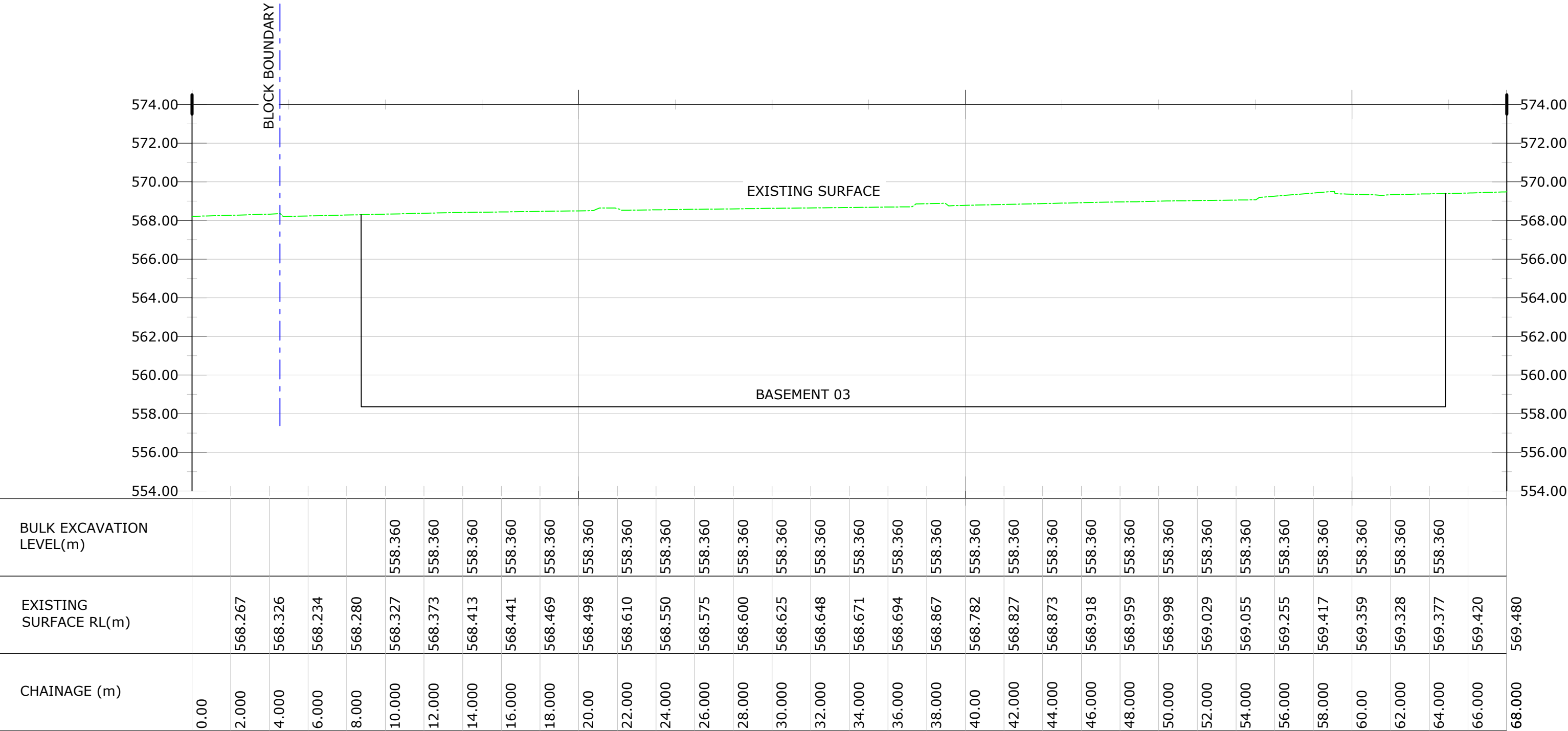
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SECTION A
1:200 @ A1



SECTION B
1:200 @ A1

NOTE
1. REFER TO THE C.110 DRAWING SERIES FOR LANDSCAPE MANAGEMENT AND PROTECTION PLAN.
2. REFER TO THE C.120 DRAWING SERIES FOR SEDIMENT EROSION AND CONTROL PLAN.
3. REFER TO THE C.130 DRAWING SERIES FOR SITE ESTABLISHMENT PLAN.

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60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

BULK EARTHWORKS
STAGE 1 - SITE SECTIONS
(SHEET 01 OF 02)

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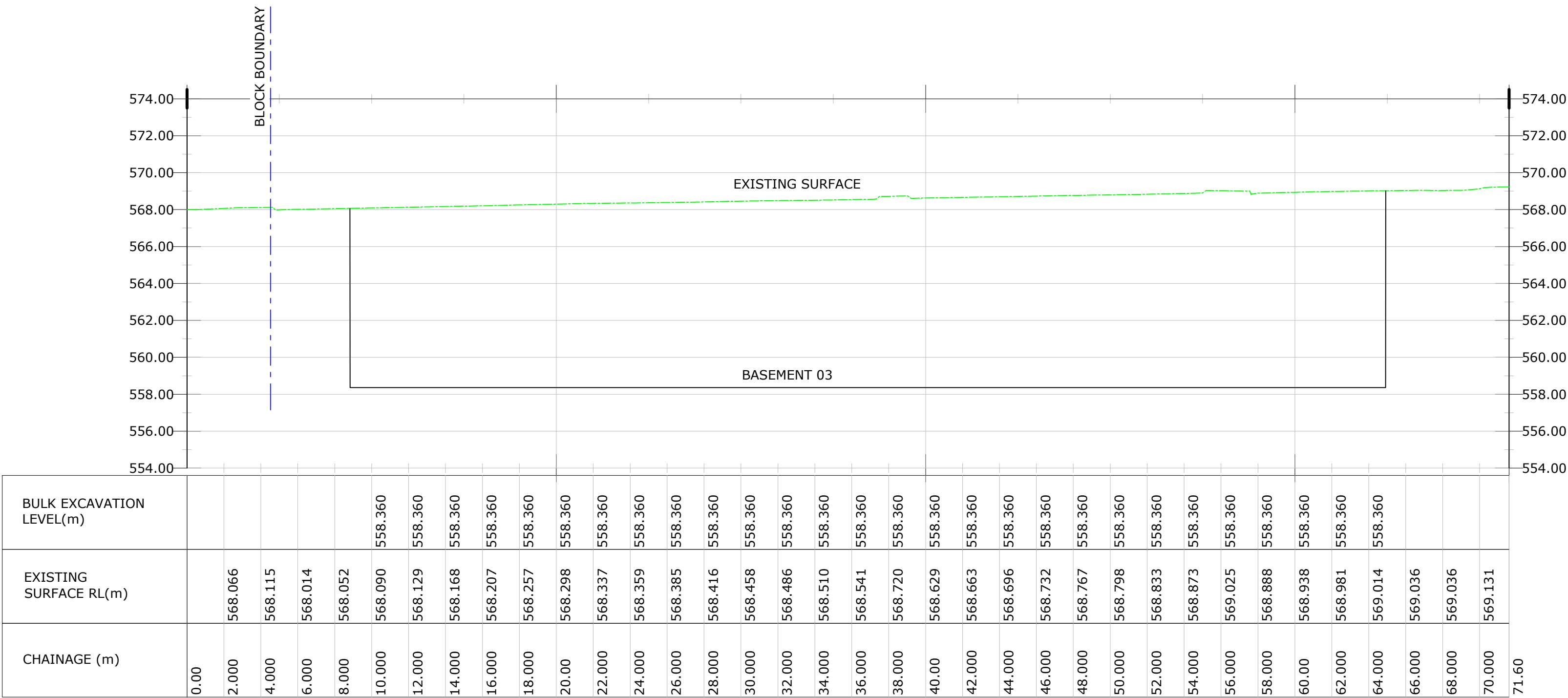
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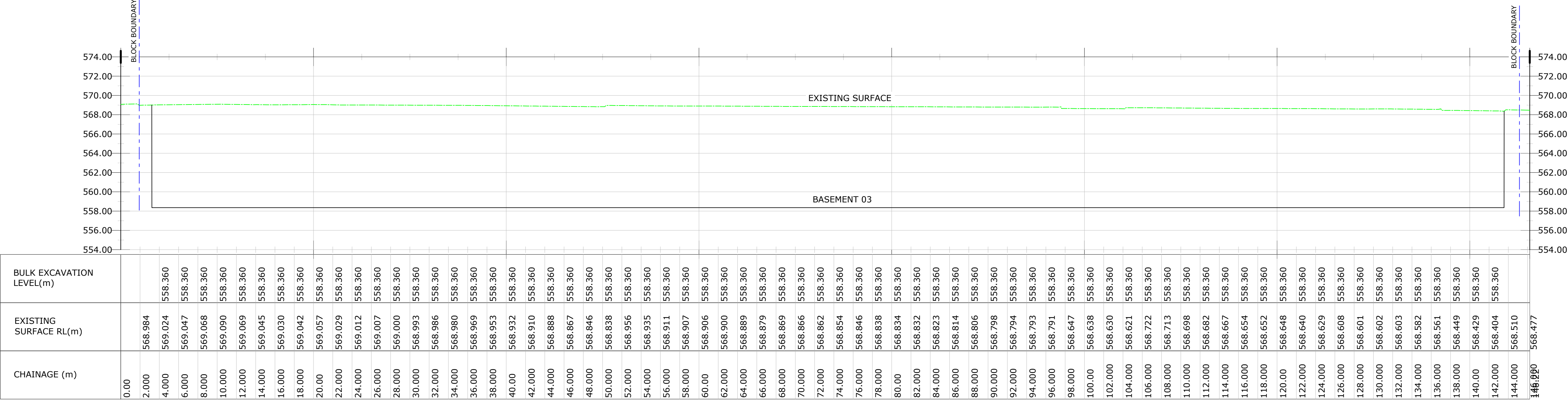
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SECTION C
1:200 @ A1



SECTION D
1:250 @ A1

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DRAWING TITLE

BULK EARTHWORKS
STAGE 1 - SITE SECTIONS
(SHEET 02 OF 02)

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DRAWING NUMBER

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DESIGNED

S.SCHUPFER

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Z.LIU

SCALE

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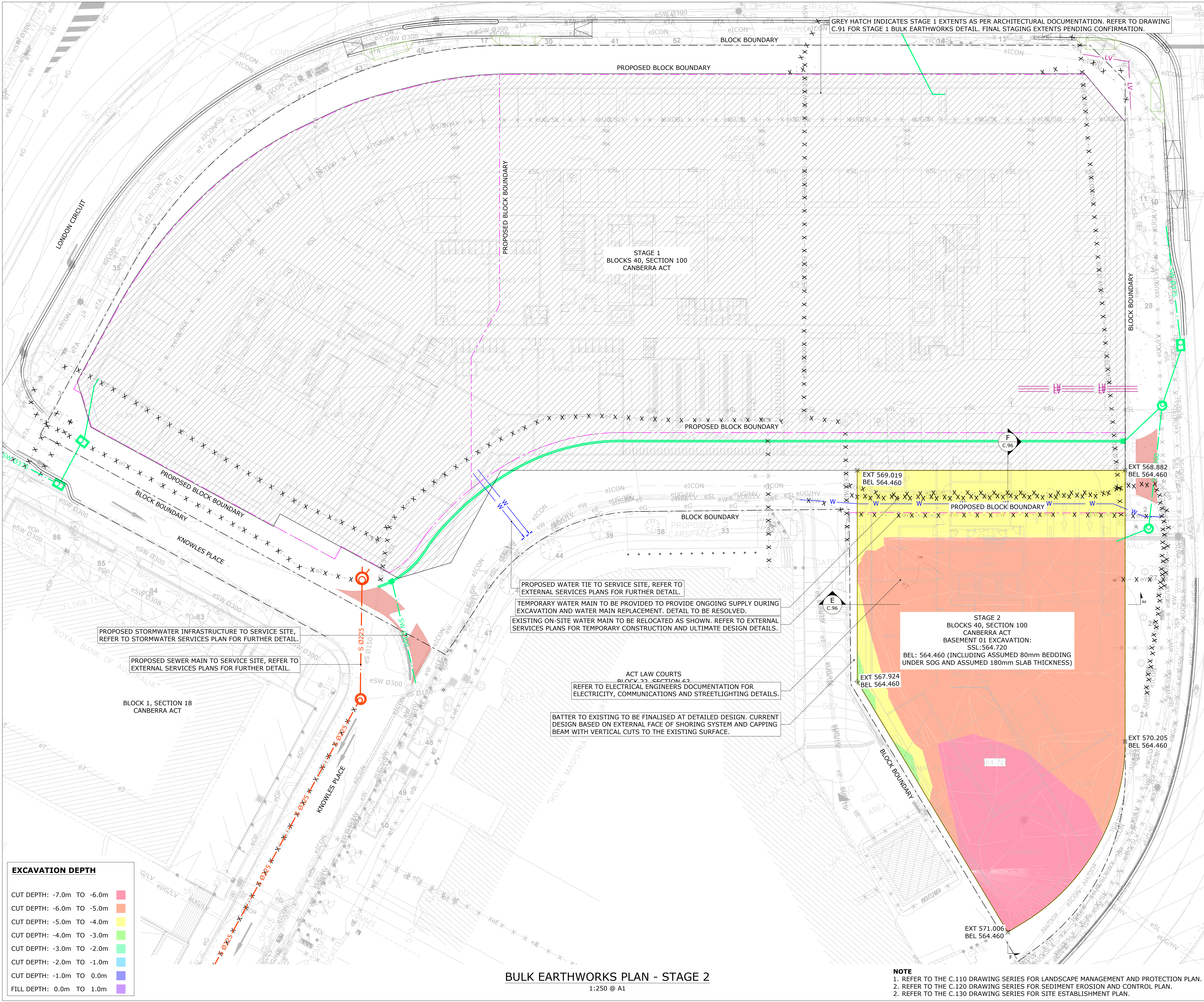
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PROJECT
60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE
BULK EARTHWORKS
GENERAL ARRANGEMENT PLAN
STAGE 2

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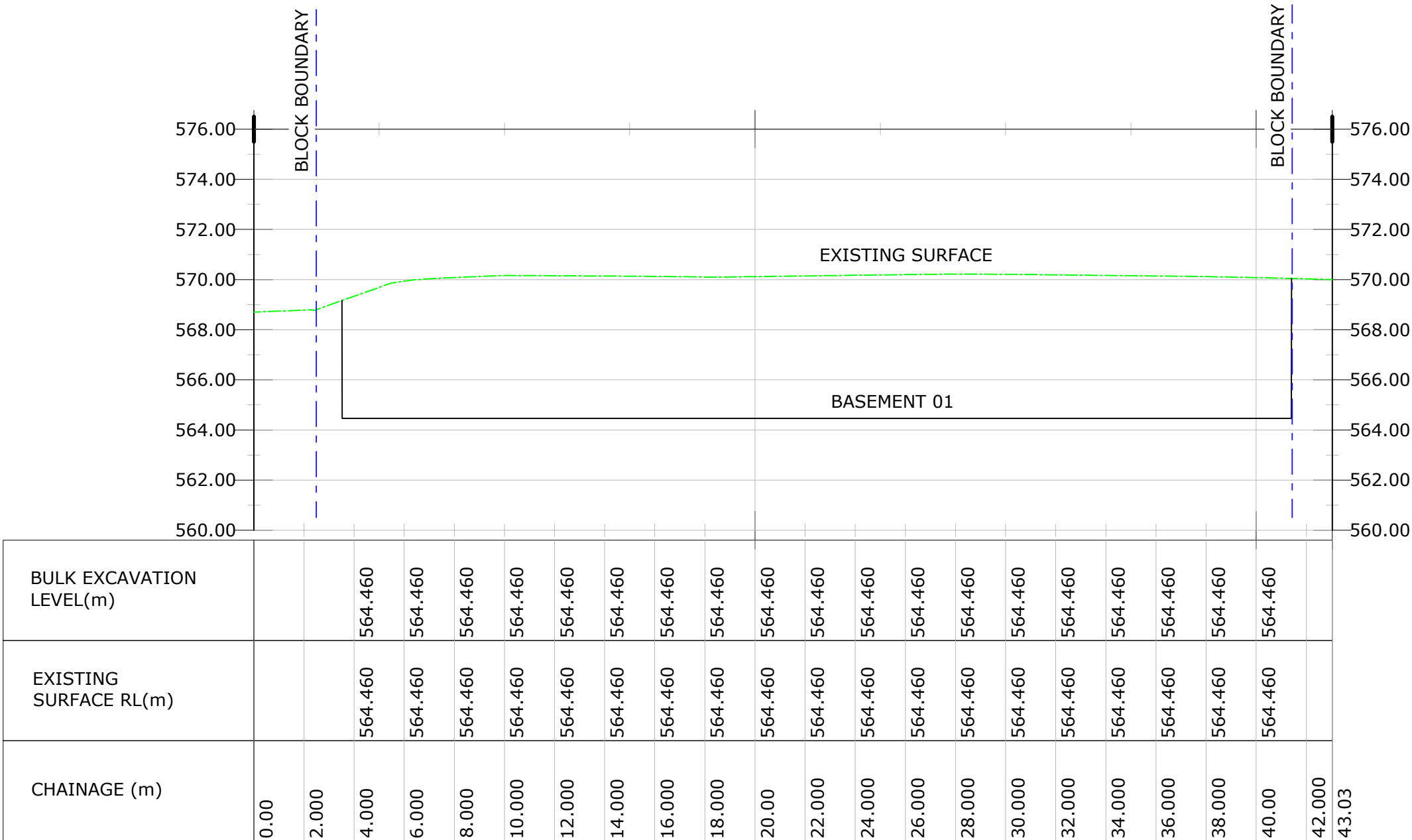
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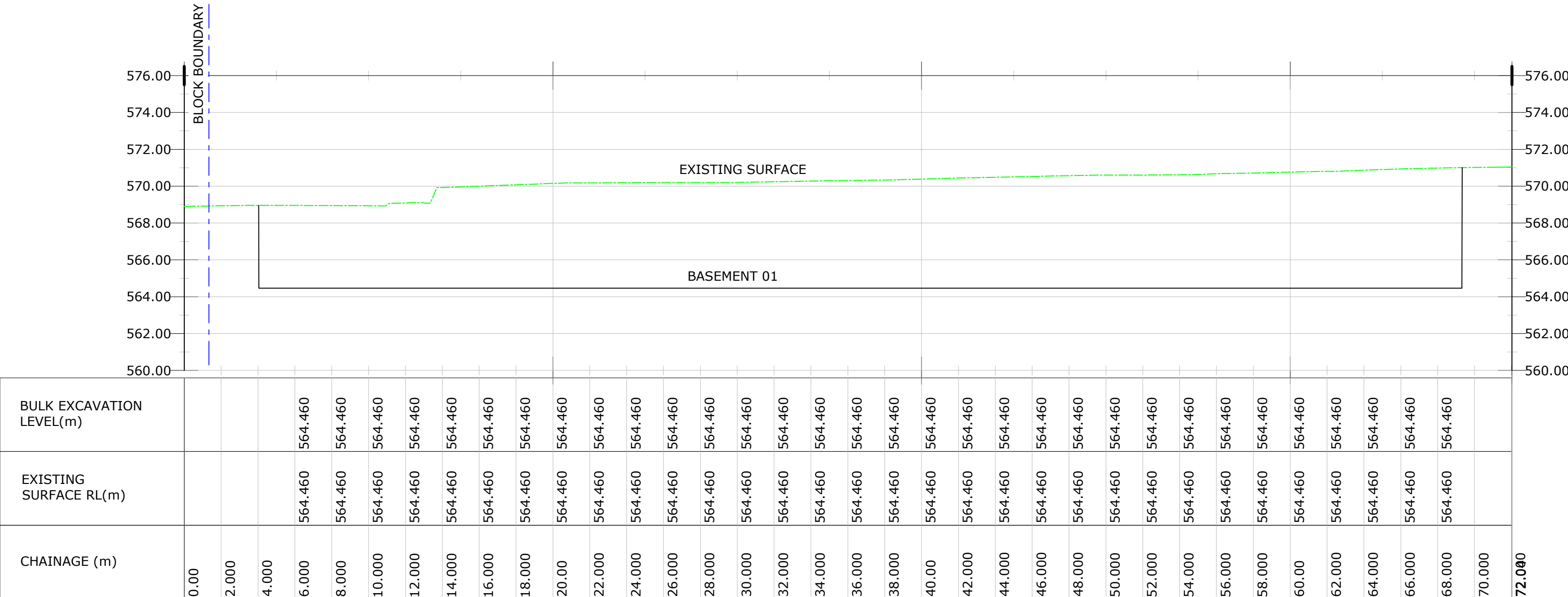
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SIZE
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4



SECTION E
1:200 @ A1



SECTION F
1:200 @ A1

NOTE
1. REFER TO THE C.110 DRAWING SERIES FOR LANDSCAPE MANAGEMENT AND PROTECTION PLAN.
2. REFER TO THE C.120 DRAWING SERIES FOR SEDIMENT EROSION AND CONTROL PLAN.
3. REFER TO THE C.130 DRAWING SERIES FOR SITE ESTABLISHMENT PLAN.

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REV	ISSUE	CHK'D	APP'D	DATE
1	NOT USED	-	-	-
2	NOT USED	-	-	-
3	PRELIMINARY	A.N.	S.G.	26/03/25
4	PRELIMINARY	A.N.	S.G.	04/04/25

ALL DRAWINGS ARE DESIGNED TO BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE.

KEY PLAN

Vital Design Solutions

HYDRAULIC CIVIL FIRE

CANBERRA - GROUND FLOOR, 20 SPONGOLITE STREET, BEARD ACT 2620
MELBOURNE - L19, 2 SOUTHBANK BOULEVARD, SOUTHBANK VIC 3006
Tel 02 6297 2765 Email admin@vdsol.com.au ABN 45 151 340 788
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ARCHITECT

JPW

CLIENT

PROJECT

60 LONDON CIRCUIT
BLOCK 40 SECTION 100
60 LONDON CIRCUIT
CANBERRA ACT

DRAWING TITLE

BULK EARTHWORKS
STAGE 2
SITE SECTIONS

ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS, ORDERING MATERIAL OR PRODUCING SHOP DRAWINGS.

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JOB REFERENCE

VS24086

DRAWING NUMBER

C.96

DESIGNED

S.SCHUPFER

DRAFTED

Z.LIU

SCALE

SCALE

1:200

SIZE

A1

ISSUE

NOT FOR CONSTRUCTION

REVISION

4