

AUSTRALIAN NATIONAL UNIVERSITY

UNION COURT REDEVELOPMENT

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Drawn	R.TORRES	Designed	R.TORRES
Drafting		Design	
Check		Check	
Approved (Project Director)			
Date			
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Note: * indicates signatures on original issue of drawing or last revision of drawing.			
ISSUE DATE	FOR	DRWN	CHKD
1	07.04.17	WORKS APPROVAL	RT JK DU

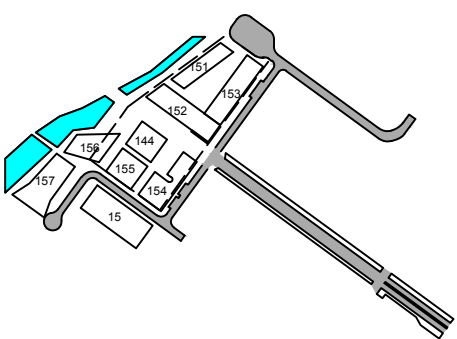


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ARCHITECT

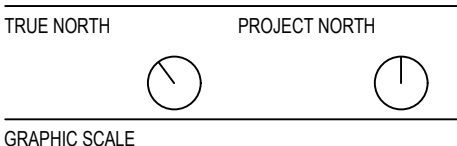
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TEL 02 9550 5200
ASPECT STUDIO
TEL 03 9417 6844
ENGINEERING

GHD
TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



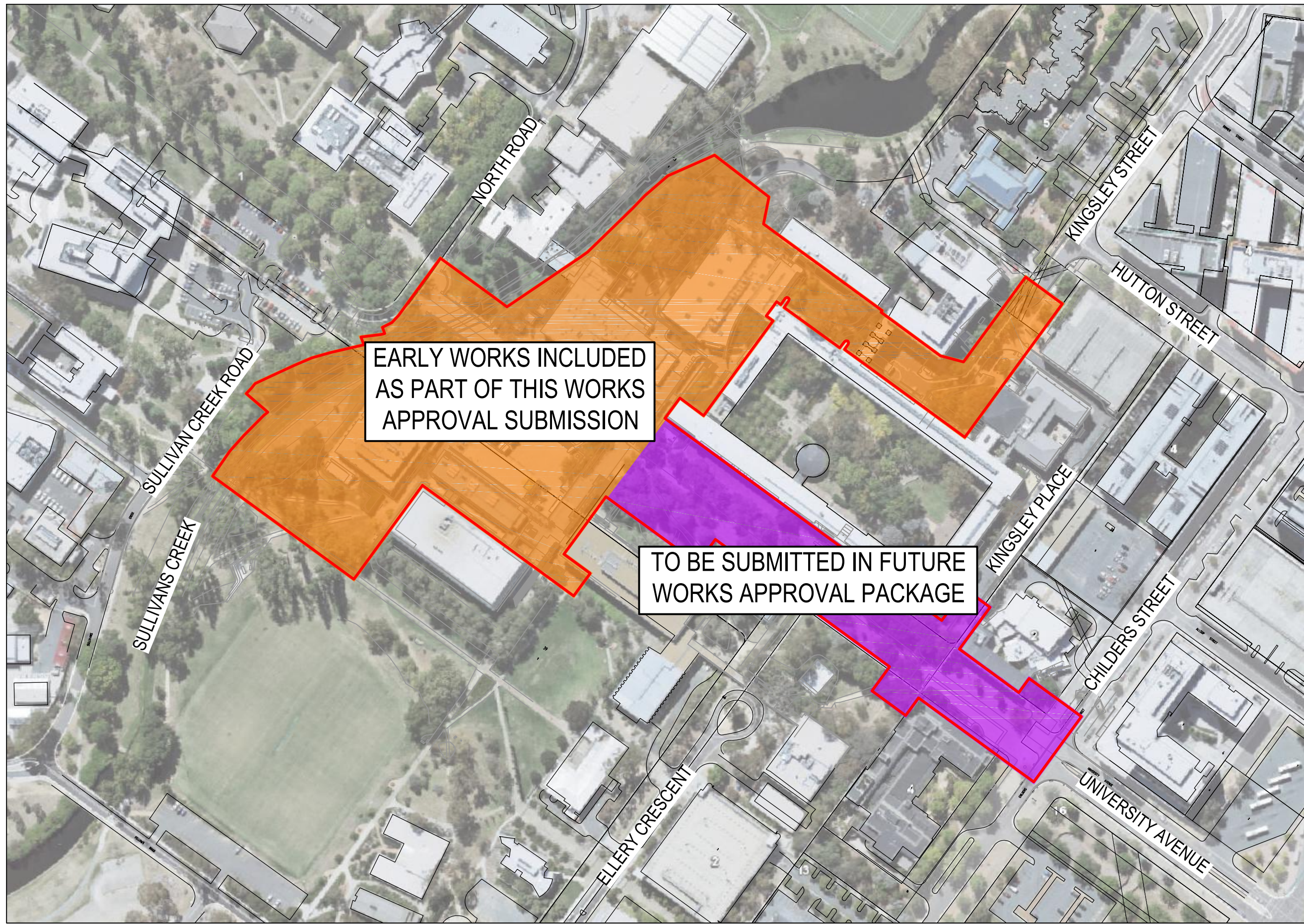
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SCALE @ A1
NTS DO NOT SCALE
STATUS

WORKS APPROVAL
DRAWING
COVER SHEET, DRAWING LIST
AND LOCALITY PLAN

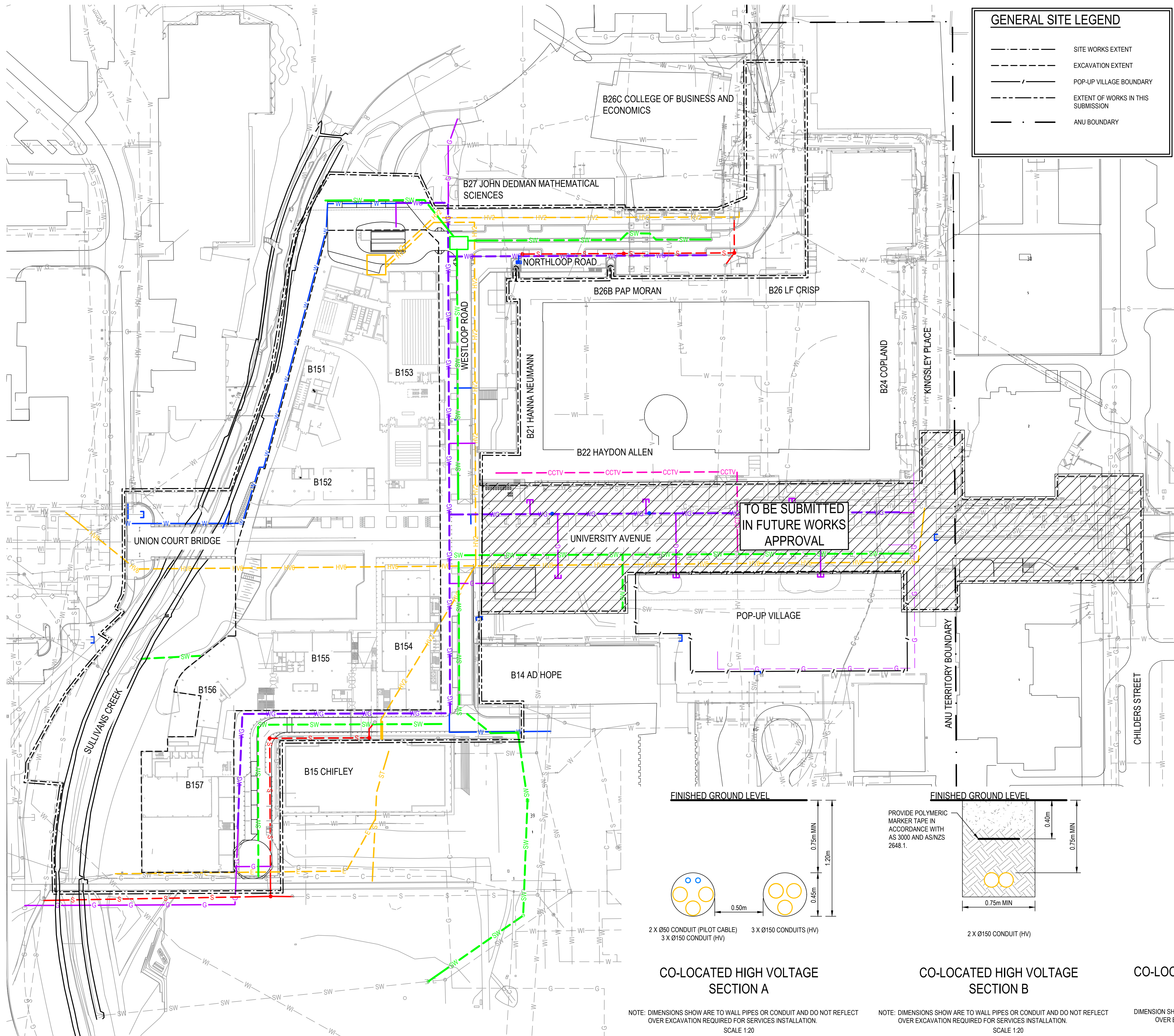
DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-001	(1)



KEY PLAN
NOT TO SCALE

WA06 DRAWING LIST	
UC-GHD-DWG-CV-144-001	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
UC-GHD-DWG-CV-144-005	SERVICE MASTER PLAN CO-LOCATED SERVICES FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-012	SERVICE MASTER PLAN STORMWATER SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-013	SERVICE MASTER PLAN STORMWATER SERVICE FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-020	SERVICE MASTER ELECTRICAL SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-021	SERVICE MASTER ELECTRICAL SERVICE FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-022	ELECTRICAL SERVICE DIVERSION STRATEGY NEW CABLE PATH AND SECTION SHEET 1
UC-GHD-DWG-CV-144-023	ELECTRICAL SERVICE DIVERSION STRATEGY NEW CABLE PATH AND SECTION SHEET 2
UC-GHD-DWG-CV-144-024	ELECTRICAL SERVICE DIVERSION STRATEGY NEW CABLE PATH AND SECTION SHEET 3
UC-GHD-DWG-CV-144-029	SERVICE MASTER PLAN COMMUNICATION SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-036	SERVICE MASTER PLAN WATER SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-037	SERVICE MASTER PLAN WATER SERVICE FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-040	SERVICE MASTER PLAN SEWER SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-043	SERVICE MASTER PLAN SEWER SERVICE FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-050	SERVICE MASTER PLAN GAS SERVICE DEMOLITION PLAN
UC-GHD-DWG-CV-144-051	SERVICE MASTER PLAN GAS SERVICE FINAL ARRANGEMENT
UC-GHD-DWG-CV-144-059	EARLY WORKS SITE BULK EARTH WORKS PLAN
UC-GHD-DWG-CV-144-062	EARLY WORKS BASEMENT BULK EARTH WORKS PLAN
UC-GHD-DWG-CV-144-070	EARLY WORKS UNION COURT PRECINCT GRID ROAD MASTER PLAN
UC-GHD-DWG-CV-144-072	EARLY WORKS STORMWATER CATCHMENT PLAN
UC-GHD-DWG-CV-144-073	EARLY WORKS CONCEPT SEDIMENT AND EROSION CONTROL PLAN
UC-GHD-DWG-CV-144-074	EARLY WORKS SEDIMENT AND EROSION DETAILS

PRELIMINARY



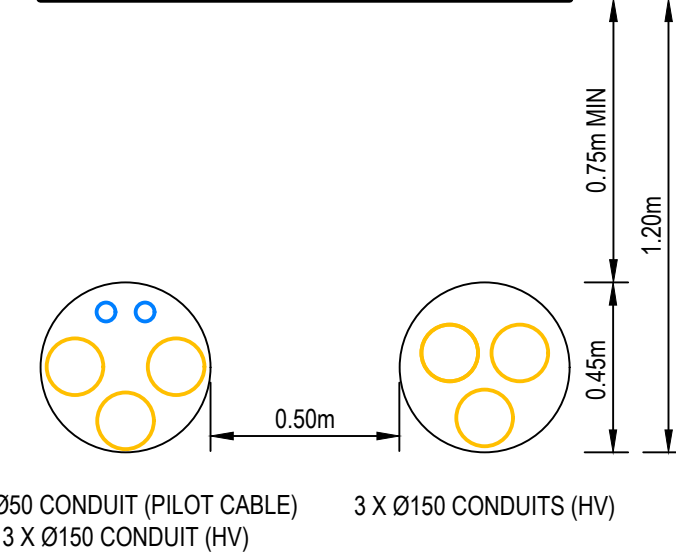
GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

PROPOSED SERVICES LEGEND

- G GAS SERVICES
- W WATER SERVICES
- W/G WATER AND GAS SERVICE REFER TO CO-LOCATED DETAIL
- SW STORMWATER SERVICES
- ST STREETLIGHT SERVICE
- E ELECTRICAL SERVICE
- HV2 HIGH VOLTAGE SERVICES REFER TO SECTION A DETAIL
- HV6 HIGH VOLTAGE SERVICES REFER TO SECTION B DETAIL
- CCTV CCTV SERVICES
- S SEWER SERVICES

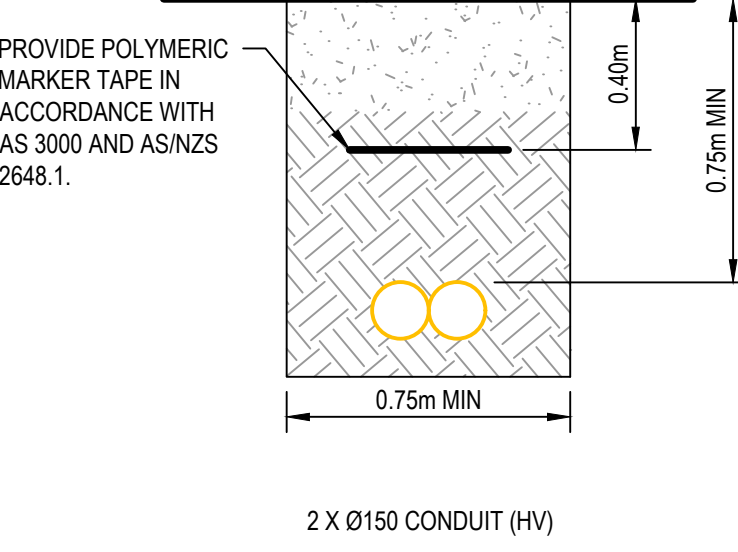
FINISHED GROUND LEVEL



CO-LOCATED HIGH VOLTAGE SECTION A

NOTE: DIMENSIONS SHOW ARE TO WALL PIPES OR CONDUIT AND DO NOT REFLECT OVER EXCAVATION REQUIRED FOR SERVICES INSTALLATION.
SCALE 1:20

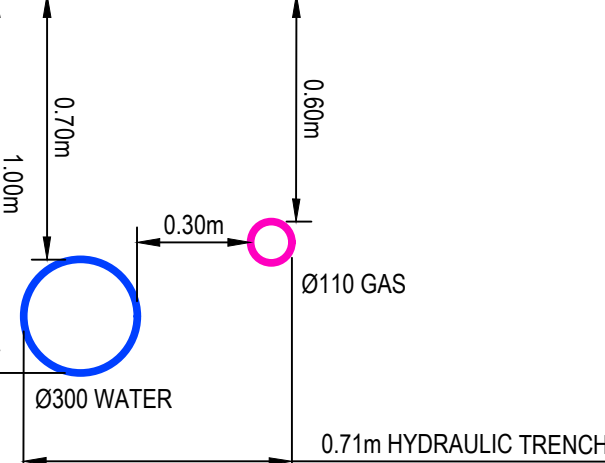
FINISHED GROUND LEVEL



CO-LOCATED HIGH VOLTAGE SECTION B

NOTE: DIMENSIONS SHOW ARE TO WALL PIPES OR CONDUIT AND DO NOT REFLECT OVER EXCAVATION REQUIRED FOR SERVICES INSTALLATION.
SCALE 1:20

FINISHED GROUND LEVEL



CO-LOCATED WATER & GAS SERVICES

DIMENSION SHOWN ARE TO WALL PIPES OR CONDUIT AND FOR NOT REFLECT OVER EXCAVATION REQUIRED FOR SERVICES INSTALLATION.
SCALE 1:20



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Designed: R. TORRES
Drafting: [blank]
Check: [blank]

Approved: (Project Director)
Date: [blank]

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ISSUE DATE FOR DRWN CHKD APPD

1 07.04.17 WORKS APPROVAL RT JK DU

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TEL 02 9550 5200

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TEL 03 9417 6844

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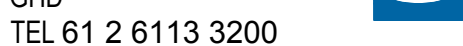
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TEL 61 2 6113 3200

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PROJECT

AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT

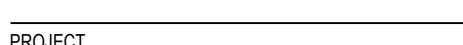
LOCATION PLAN



DRAWING KEY



TRUE NORTH PROJECT NORTH



SCALE @ A1

NTS DO NOT SCALE

STATUS

WORKS APPROVAL

DRAWING

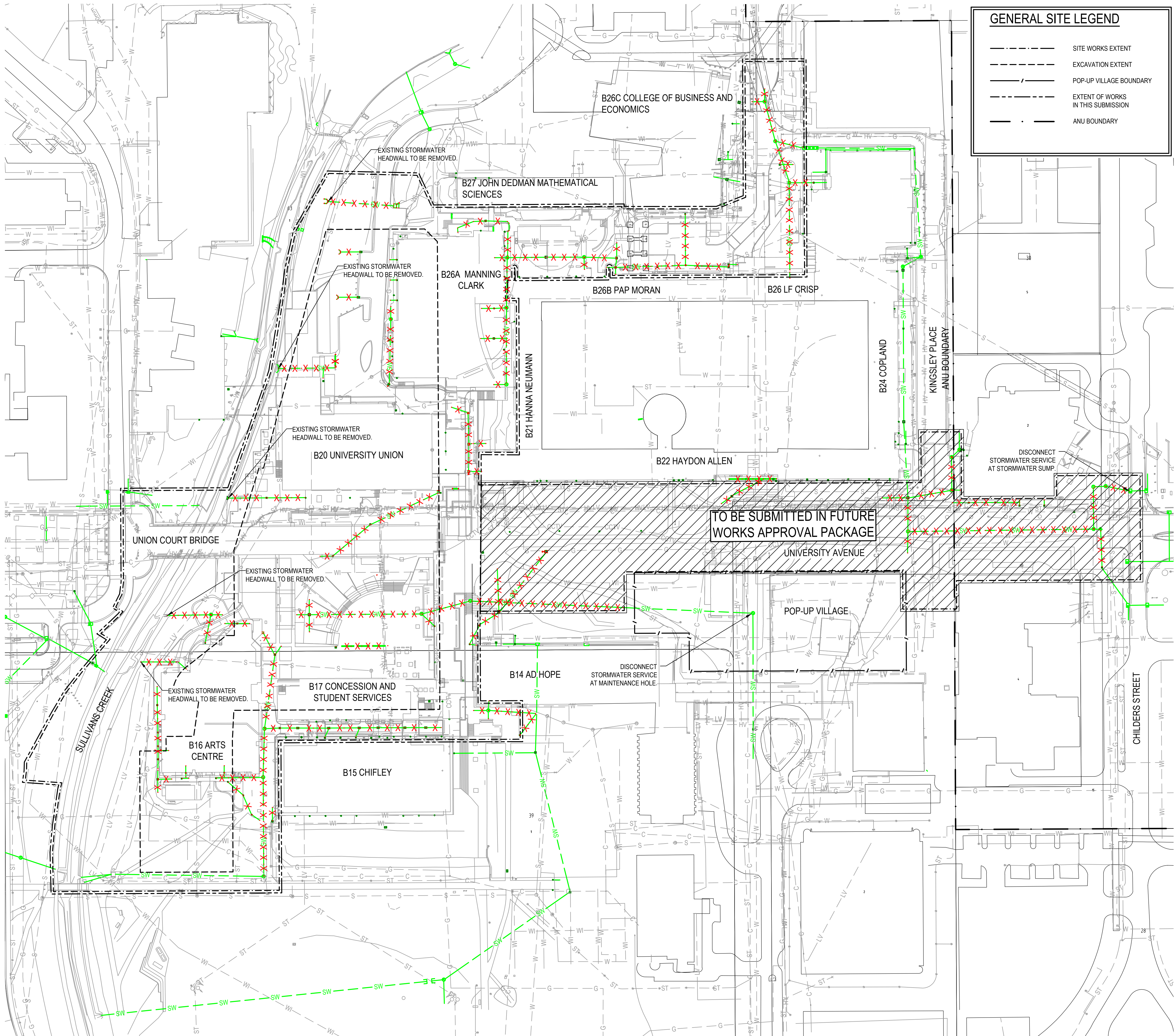
SERVICE MASTER PLAN
CO-LOCATED SERVICES
FINAL ARRANGEMENT

DRAWING NUMBER

UC-GHD-DWG-CV-144-005

ISSUE

(1)



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

EXISTING SERVICES LEGEND

- G --- GAS SERVICES
- SW --- STORMWATER SERVICES
- W --- WATER SERVICES
- WI --- WATER IRRIGATION SERVICES
- ST --- STREETLIGHT SERVICE
- HV --- HIGH VOLTAGE ELECTRICAL SERVICES
- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

DEMOLITION LEGEND

- X - X - X - X - SERVICE TO BE REMOVED



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Designed: R.TORRES
Drafting Check: Design Check

Approved: (Project Director)
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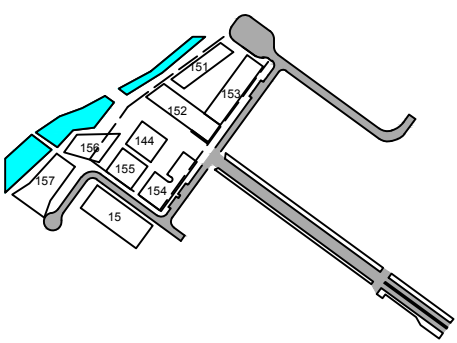
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GHD
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CONSULTANT

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AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH
GRAPHIC SCALE
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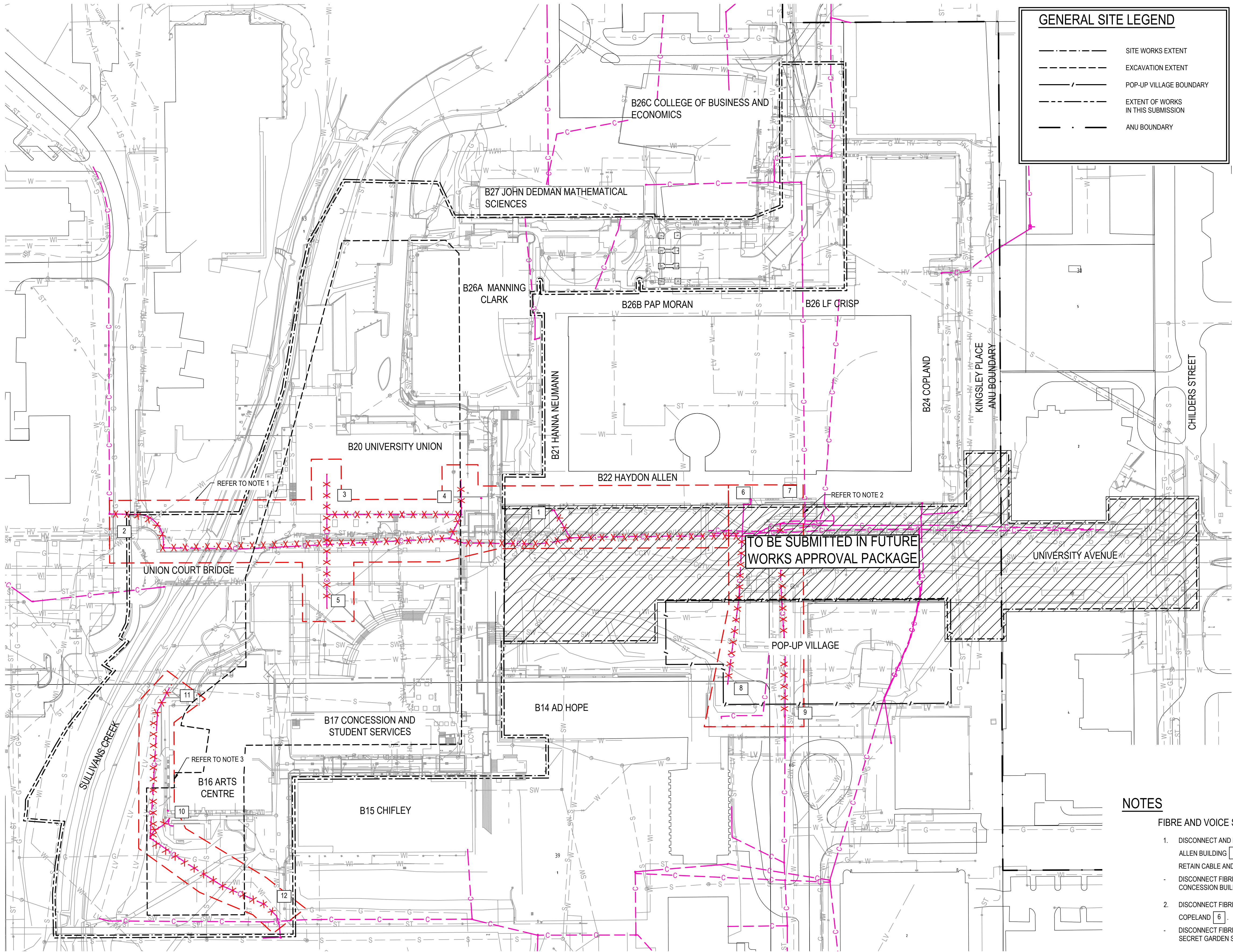
SCALE @ A1
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DO NOT SCALE
STATUS

NCA WORKS APPROVAL
DRAWING

SERVICE MASTER PLAN
STORMWATER SERVICE
DEMOLITION PLAN

DRAWING NUMBER ISSUE
UC-GHD-DWG-CV-144-012 (1)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

EXISTING SERVICES LEGEND

- G --- GAS SERVICES
- SW --- STORMWATER SERVICES
- W --- WATER SERVICES
- WI --- WATER IRRIGATION SERVICES
- ST --- STREETLIGHT SERVICE
- HV --- HIGH VOLTAGE ELECTRICAL SERVICES
- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

DEMOLITION LEGEND

- X · X · X · X · EXISTING CONDUIT AND CABLE TO BE REMOVED

NOTES

FIBRE AND VOICE SERVICES:

- DISCONNECT AND REMOVE ANU ITS FIBRE SERVICES FROM COPELAND AND HAYDON ALLEN BUILDING [1], AND PULL BACK TO THE WESTERN SIDE OF THE BRIDGE [2]. RETAIN CABLE AND COIL WITHIN PIT.
- DISCONNECT FIBRE AND VOICE CABLE FROM UNION COURT [3] AND [4] AND CONCESSION BUILDING [5] AND PULL CABLE BACK TO PIT OUTSIDE COPELAND BUILDING [7].
- DISCONNECT FIBRE CABLING FROM MELVILLE HALL [8], PULL CABLING BACK TO PIT AT COPELAND [6].
- DISCONNECT FIBRE SERVICE FROM PIT ON [9] AND PULL CABLING BACK TO PIT WITHIN SECRET GARDEN STEPS [7].
- DISCONNECT FIBRE AND VOICE SERVICES FROM WITHIN THE ARTS BUILDING [10] AND [11]. PULL CABLING BACK TO PIT TO THE SOUTH [12], DISCONNECT FROM PIT AND REMOVE.



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Designed: C.HENRICH
Drafting: []
Check: []

Approved: []
(Project Director)
Date: []

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ISSUE DATE	FOR	DRWN	CHKD	APPD
1	10.03.17 PRELIMINARY	RT	CH	CH
2	07.04.17 WORKS APPROVAL	RT	JK	DU

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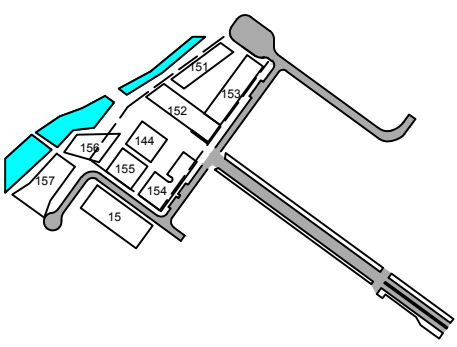
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TEL 03 9417 6844
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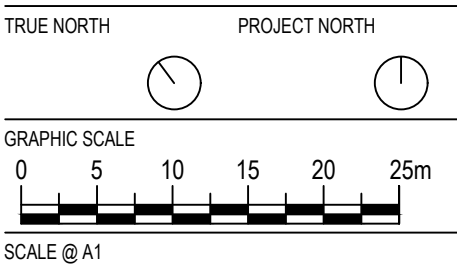
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AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY



1:500
DO NOT SCALE
STATUS

WORKS APPROVAL

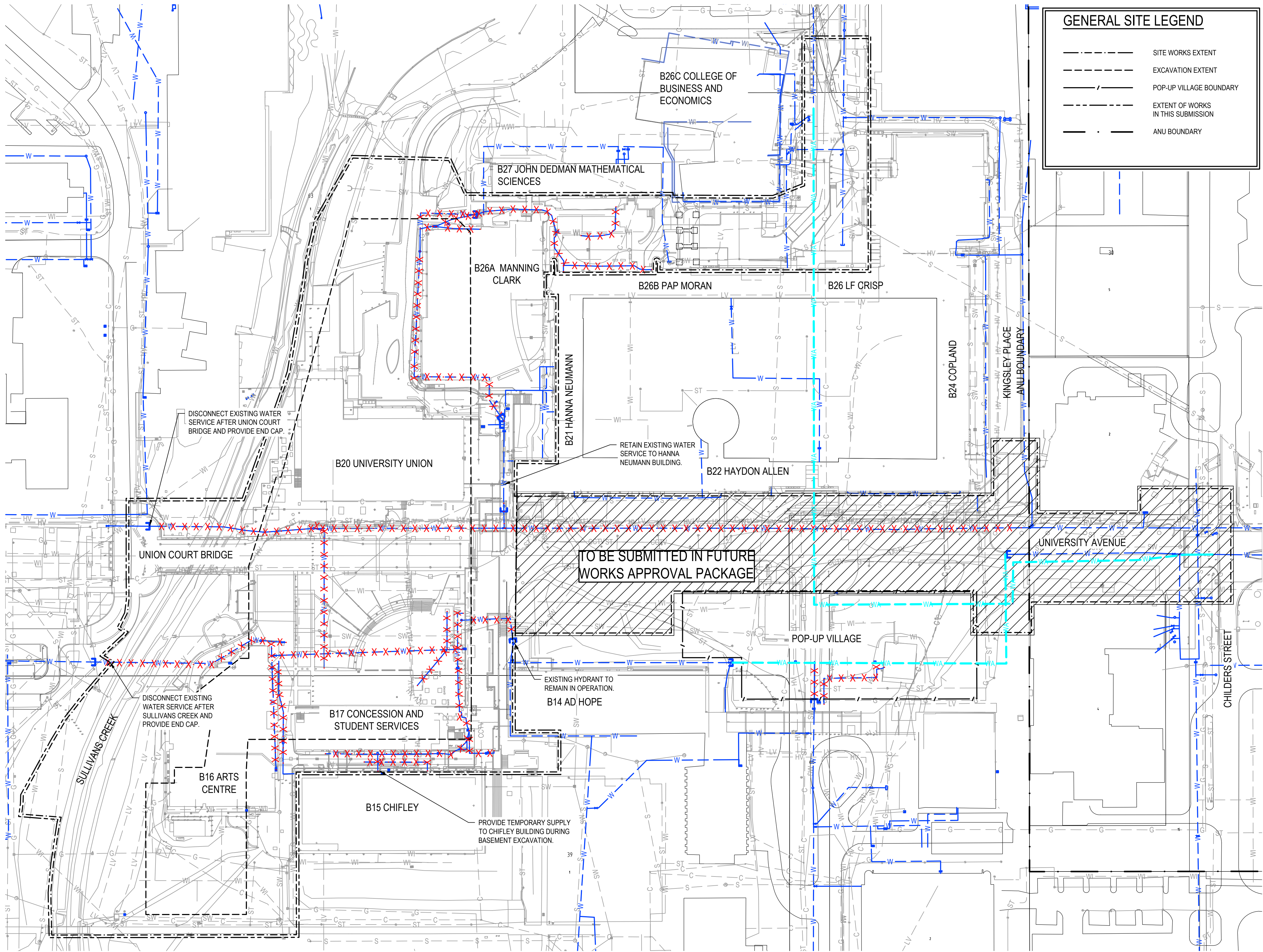
SERVICE MASTER PLAN

COMMUNICATION SERVICE

DEMOLITION PLAN

DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-029	(2)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

EXISTING SERVICES LEGEND

- G --- GAS SERVICES
- SW --- STORMWATER SERVICES
- W --- WATER SERVICES
- WI --- WATER IRRIGATION SERVICES
- ST --- STREETLIGHT SERVICE
- HV --- HIGH VOLTAGE ELECTRICAL SERVICES
- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

DEMOLITION LEGEND

- X · X · X · X · X · SERVICE TO BE REMOVED
- END CAP
- W/A --- EXISTING WATER SERVICE TO BE ABANDONED DURING POP-UP VILLAGE WORKS.



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Drafting Check: Design Check:

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ISSUE DATE FOR DRWN CHKD APPD

1 10.03.17 PRELIMINARY RT NC NC

2 07.04.17 WORKS APPROVAL RT JK DU

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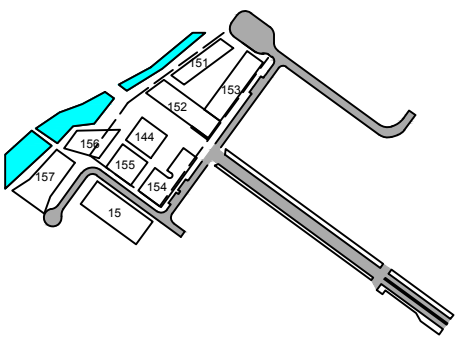
PROJECT

AUSTRALIAN NATIONAL UNIVERSITY

UNION COURT REDEVELOPMENT

CANBERRA, ACT

LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

0 8 16 24 32 40

SCALE @ A1

1:800 DO NOT SCALE

STATUS

WORKS APPROVAL

DRAWING

SERVICE MASTER PLAN

WATER SERVICE

DEMOLITION PLAN

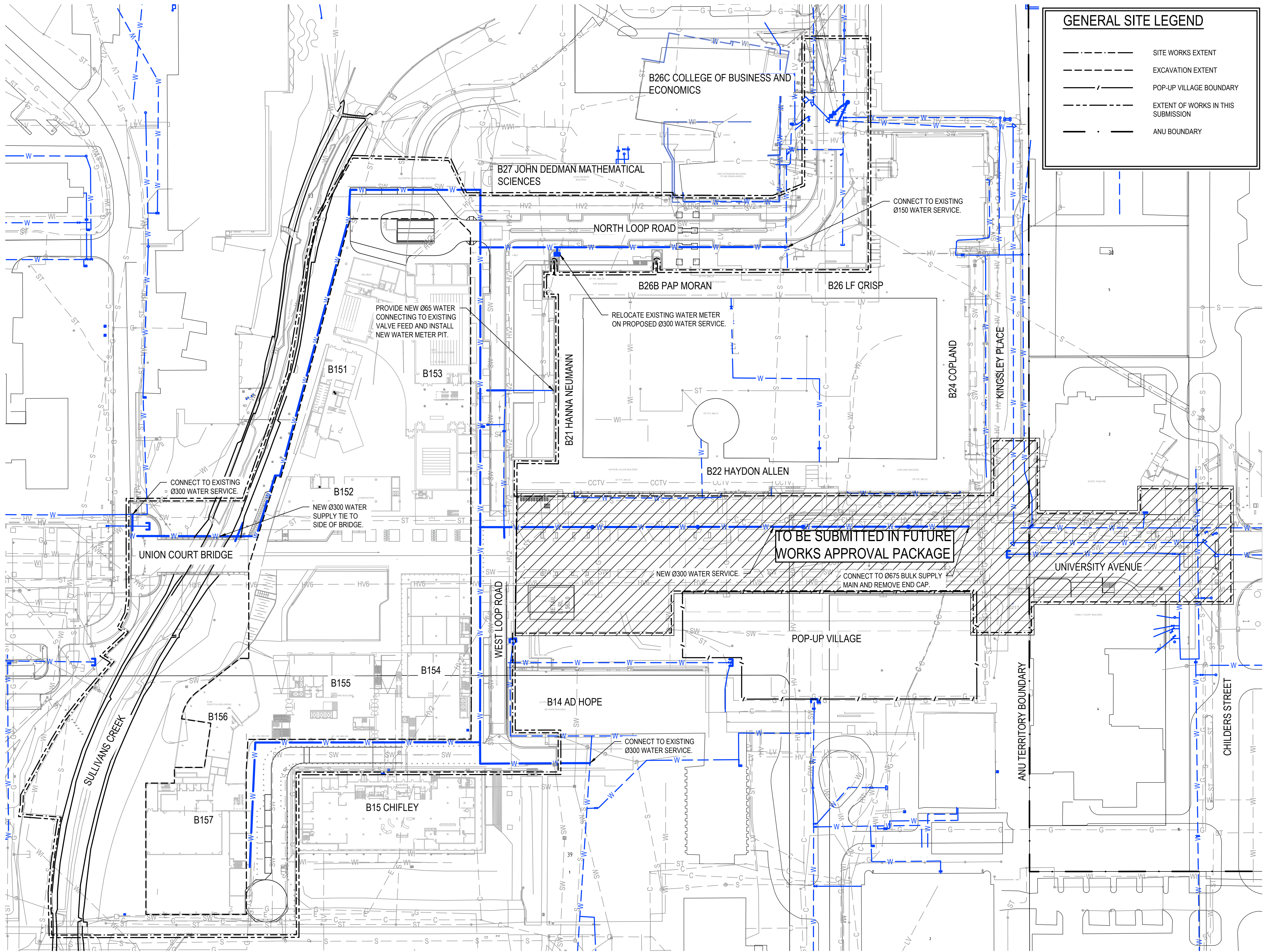
DRAWING NUMBER

UC-GHD-DWG-CV-144-036

ISSUE

(2)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

EXISTING SERVICES LEGEND

- G --- GAS SERVICES
- SW --- STORMWATER SERVICES
- W --- WATER SERVICES
- WI --- WATER IRRIGATION SERVICES
- ST --- STREETLIGHT SERVICE
- HV --- HIGH VOLTAGE ELECTRICAL SERVICES
- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

PROPOSED WORKS LEGEND

- W --- Ø300 WATER SERVICE
- END CAP
- HYDRANT
- WATER METER



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1 07.04.17	WORKS APPROVAL	RT	JK	DU



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ARCHITECT



BYN
TEL 02 8297 7200
LANDSCAPE



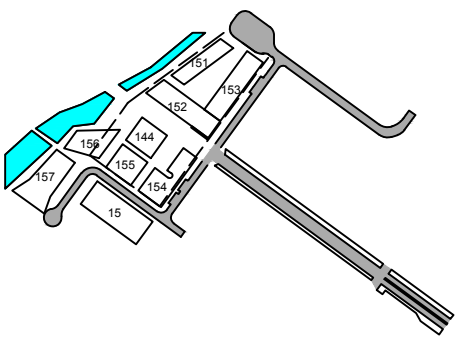
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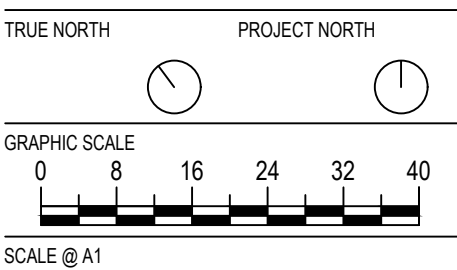
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PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY



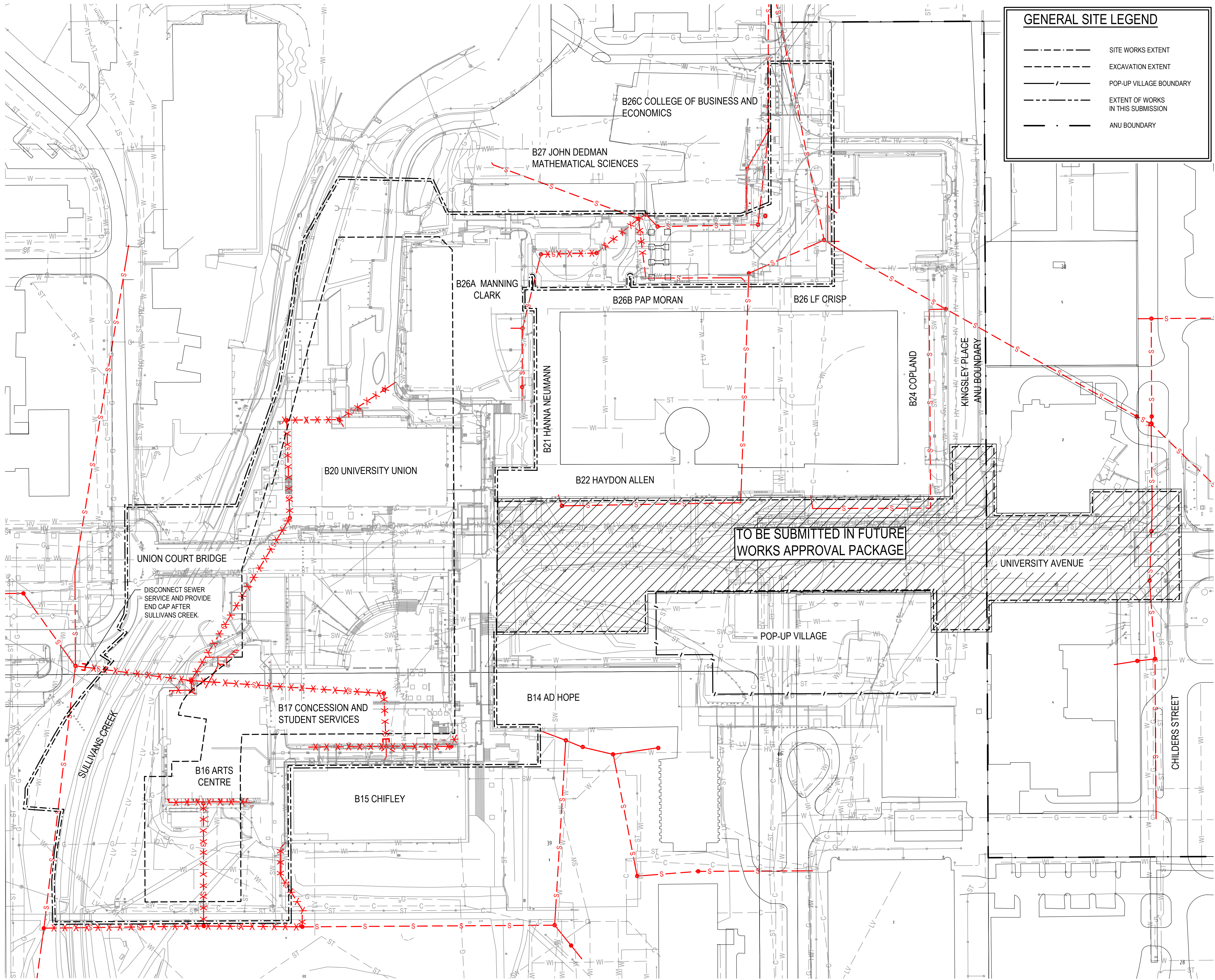
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STATUS

WORKS APPROVAL
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SERVICE MASTER PLAN
WATER SERVICE
FINAL ARRANGEMENT

DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-037	(1)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
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EXISTING SERVICES LEGEND

- G --- GAS SERVICES
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- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

DEMOLITION LEGEND

- X · X · X · X · X · SERVICE TO BE REMOVED
- PROPOSED END CAP



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Drawn: R.TORRES Designed: N.CORTESE

Drafting Check Design Check

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Date

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ISSUE DATE FOR DRWN CHKD APPD

1 10.03.17 PRELIMINARY RT NC NC

2 07.04.17 WORKS APPROVAL RT JK DU

CLIENT



CLIENT AGENT

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LANDSCAPE

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ASPECT STUDIO lahznimmo architects ASPECT Studios

TEL 03 9417 6844

ENGINEERING

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CONSULTANT

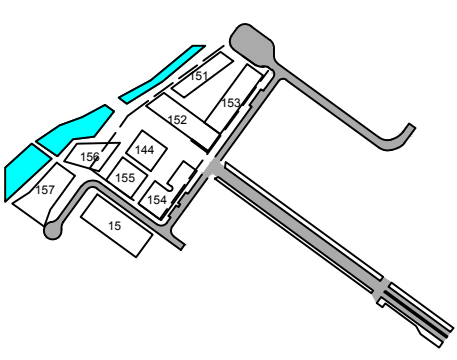
PROJECT

AUSTRALIAN NATIONAL UNIVERSITY

UNION COURT REDEVELOPMENT

CANBERRA, ACT

LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH



GRAPHIC SCALE



SCALE @ A1

1:800 DO NOT SCALE

STATUS

WORKS APPROVAL

DRAWING

SERVICE MASTER PLAN

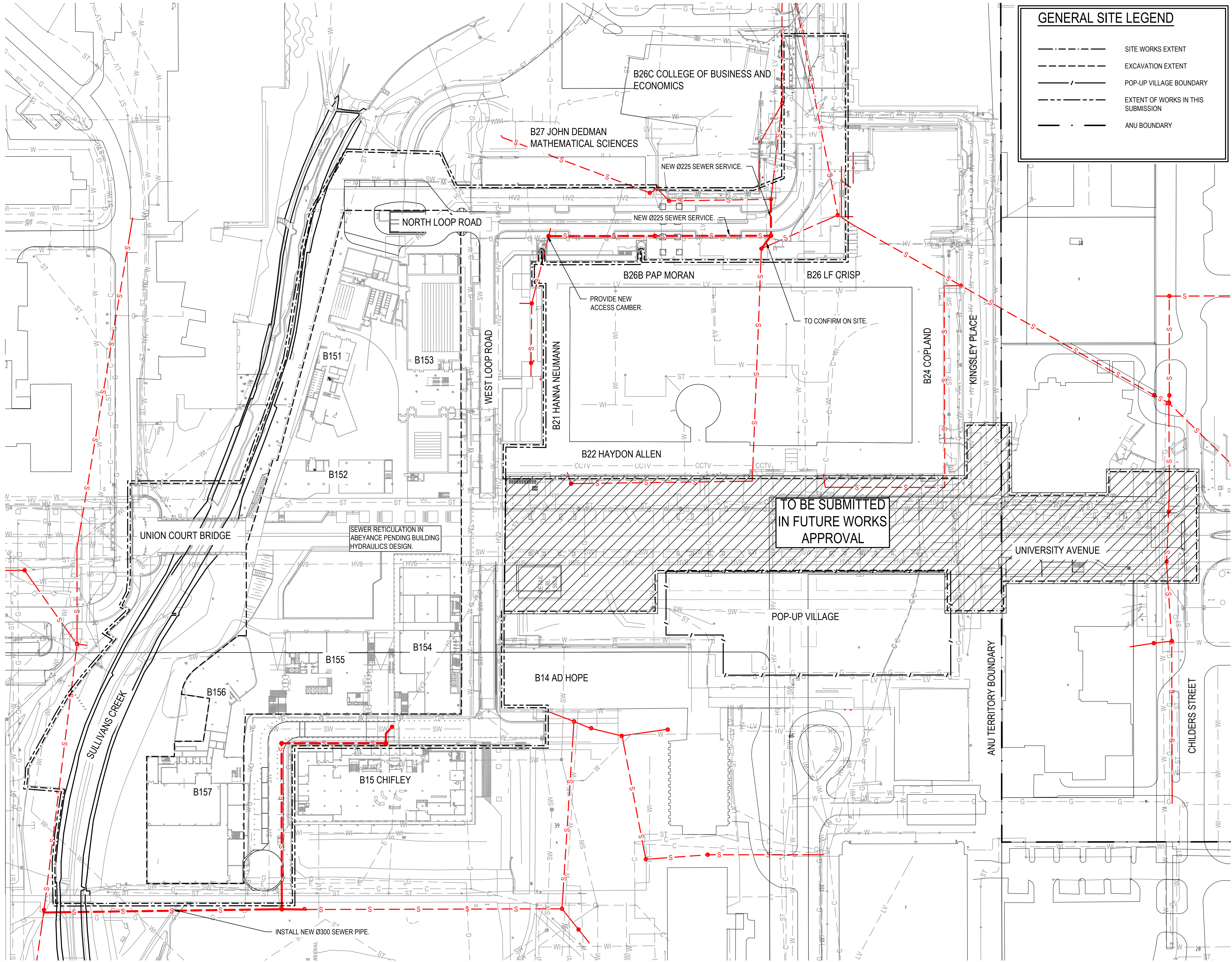
SEWER SERVICE

DEMOLITION PLAN

DRAWING NUMBER ISSUE

UC-GHD-DWG-CV-144-040 (2)

PRELIMINARY



GENERAL SITE LEGEND

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- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

PROPOSED SERVICES LEGEND

- S --- PROPOSED SEWER SERVICE
- PROPOSED MAINTENANCE HOLE



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Date:
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ISSUE DATE FOR DRWN CHKD APPD
1 07.04.17 WORKS APPROVAL RT JK DU

CLIENT



CLIENT AGENT

RMS
TEL 02 6125 5309
ARCHITECT

BVN
TEL 02 8297 7200
LANDSCAPE

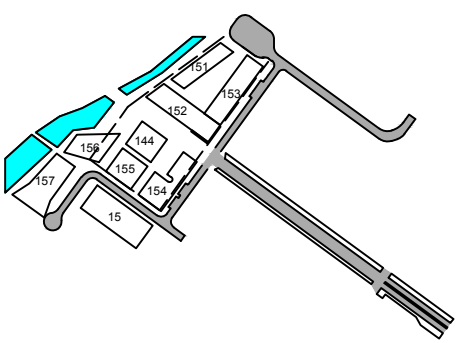
LAHZ NIMMO ARCHITECTS
TEL 02 9550 5200

ASPECT STUDIO
TEL 03 9417 6844
ENGINEERING

GHD
TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT

LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 8 16 24 32 40
SCALE @ A1

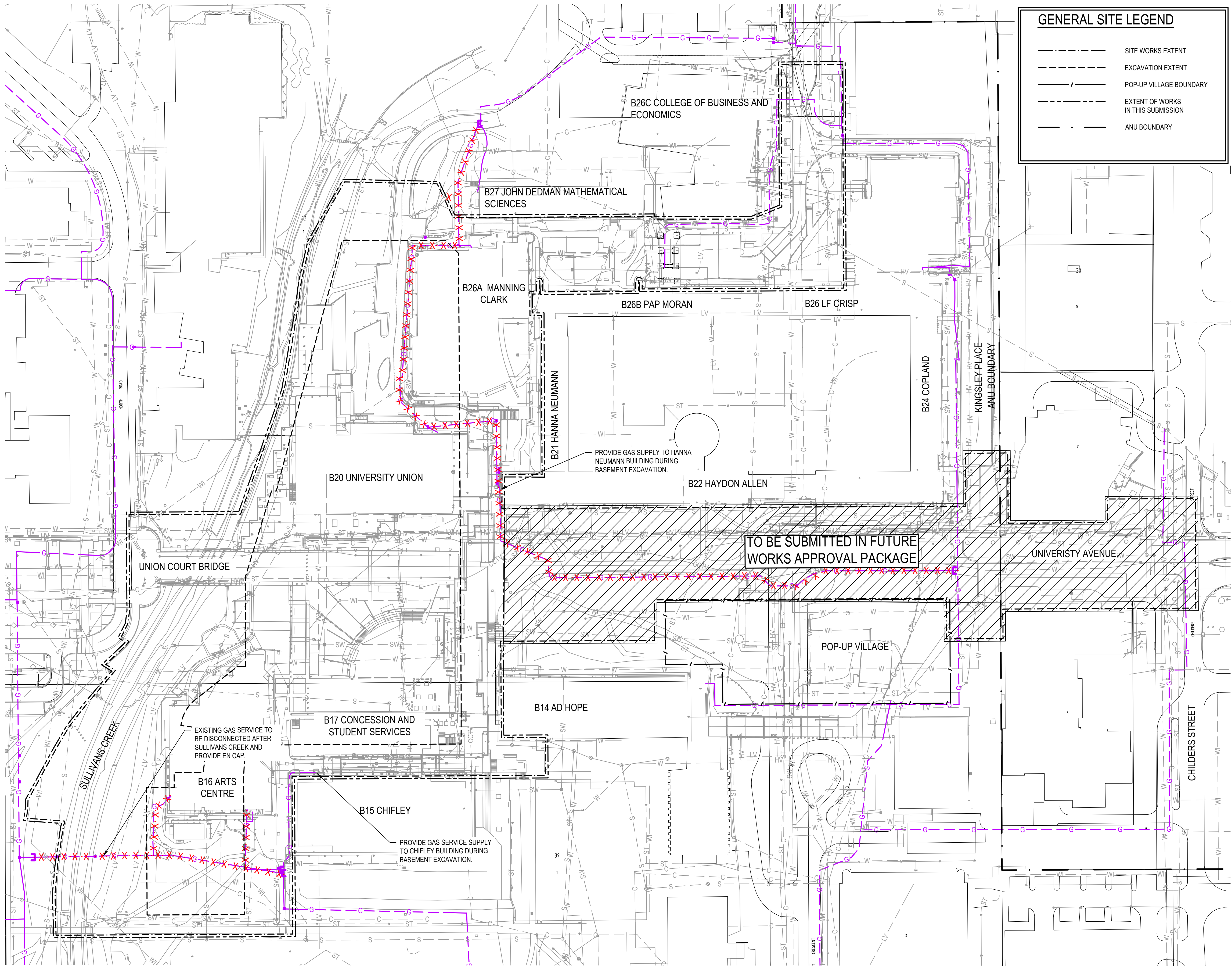
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STATUS

WORKS APPROVAL
DRAWING

SERVICE MASTER PLAN
SEWER SERVICE
FINAL ARRANGEMENT

DRAWING NUMBER ISSUE
UC-GHD-DWG-CV-144-043 (1)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- EXCAVATION EXTENT
- POP-UP VILLAGE BOUNDARY
- EXTENT OF WORKS IN THIS SUBMISSION
- ANU BOUNDARY

EXISTING SERVICES LEGEND

- G --- GAS SERVICES
- SW --- STORMWATER SERVICES
- W --- WATER SERVICES
- WI --- WATER IRRIGATION SERVICES
- ST --- STREETLIGHT SERVICE
- HV --- HIGH VOLTAGE ELECTRICAL SERVICES
- LV --- LOW VOLTAGE ELECTRICAL SERVICES
- C --- COMMUNICATIONS SERVICES
- CCTV --- CCTV SERVICES
- S --- SEWER SERVICES

DEMOLITION LEGEND

- X · X · X · X · X · X · SERVICE TO BE REMOVED
- END CAP



NOTE
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Drawn: R. TORRES
Designed: N. CORTESE

Drafting Check: Design Check

Approved: (Project Director)

Date: This Drawing must not be used for Construction unless signed as Approved.

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ISSUE DATE FOR DRWN CHKD APPD

1 24.02.17 PRELIMINARY RK NC NC

2 24.03.17 PRELIMINARY RT NC NC

3 07.04.17 WORKS APPROVAL RT JK DU

CLIENT



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BVN
TEL 02 8297 7200

LANDSCAPE

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TEL 02 9550 5200

ASPECT STUDIO
TEL 03 9417 6844

ENGINEERING

GHD
TEL 61 2 6113 3200

CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT

LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 8 16 24 32 40

SCALE @ A1

1:800 DO NOT SCALE

STATUS

WORKS APPROVAL

DRAWING

SERVICE MASTER PLAN
GAS SERVICE
DEMOLITION PLAN

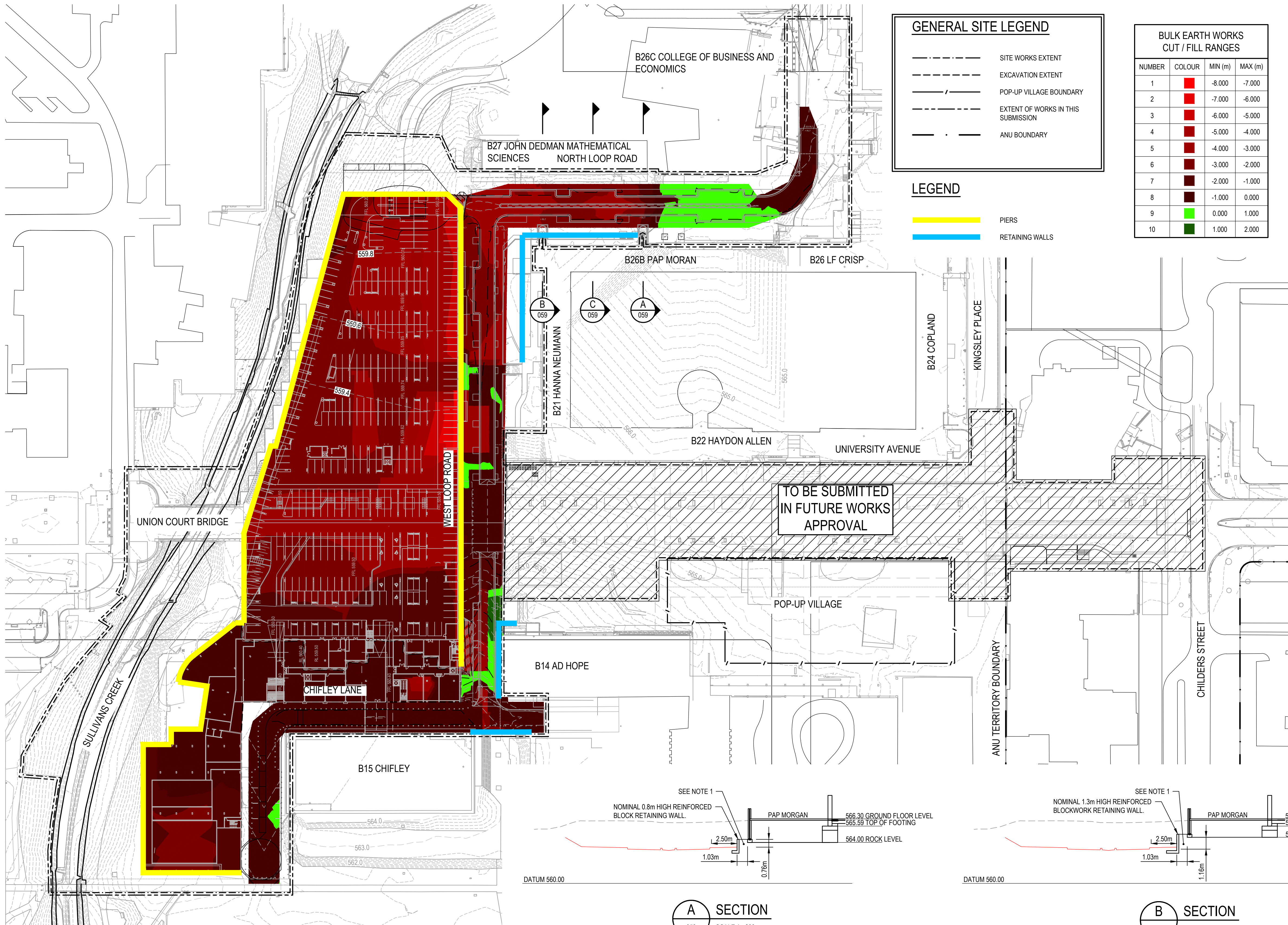
DRAWING NUMBER

UC-GHD-DWG-CV-144-050

ISSUE

(3)

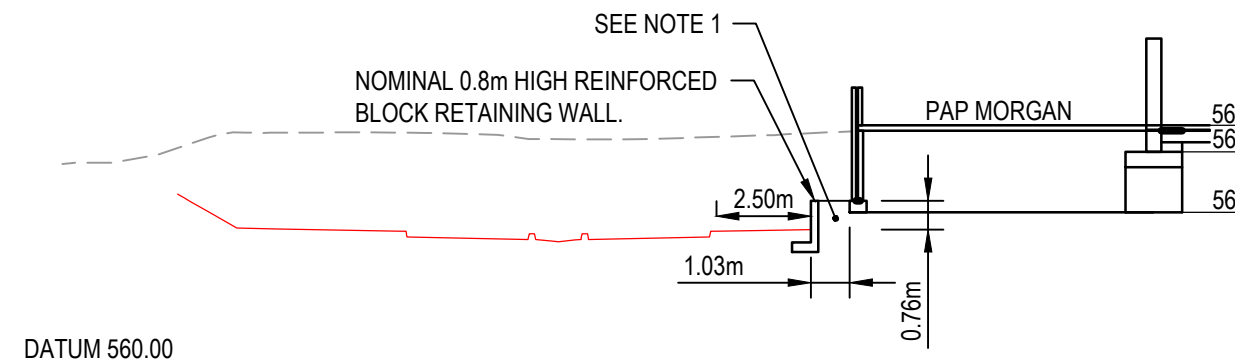
PRELIMINARY



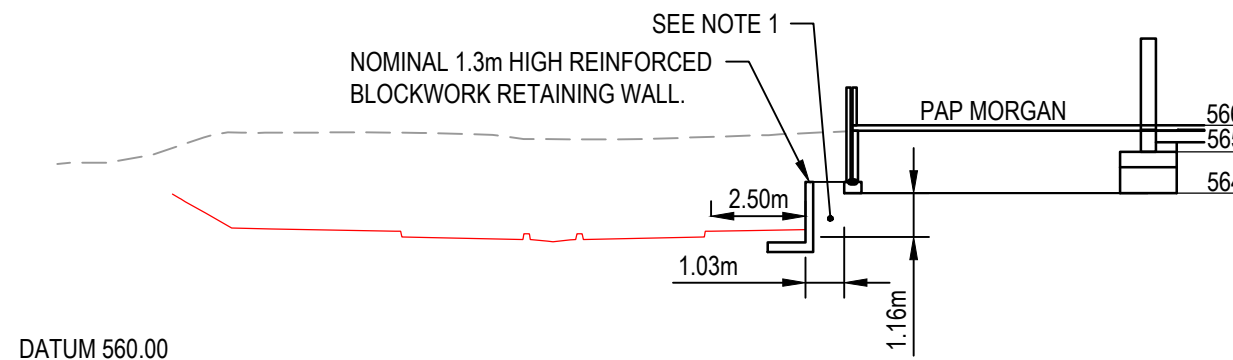
GENERAL SITE LEGEND	
---	SITE WORKS EXTENT
---	EXCAVATION EXTENT
---	POP-UP VILLAGE BOUNDARY
---	EXTENT OF WORKS IN THIS SUBMISSION
---	ANU BOUNDARY

LEGEND	
---	PIERS
---	RETAINING WALLS

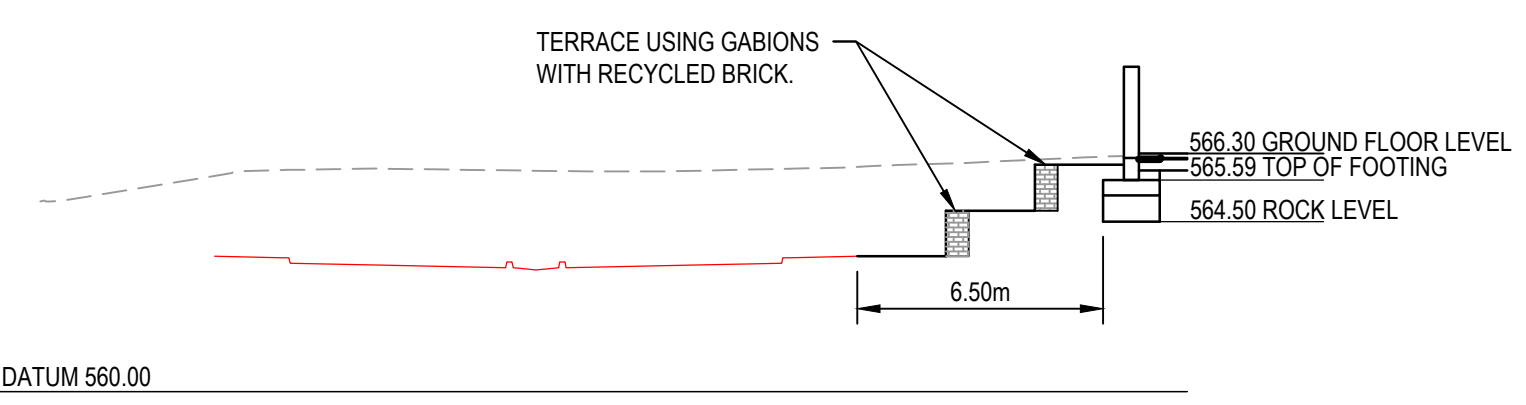
BULK EARTH WORKS CUT / FILL RANGES			
NUMBER	COLOUR	MIN (m)	MAX (m)
1	Red	-8.000	-7.000
2	Red	-7.000	-6.000
3	Red	-6.000	-5.000
4	Red	-5.000	-4.000
5	Red	-4.000	-3.000
6	Red	-3.000	-2.000
7	Red	-2.000	-1.000
8	Red	-1.000	0.000
9	Green	0.000	1.000
10	Green	1.000	2.000



A SECTION
059 SCALE 1 : 200

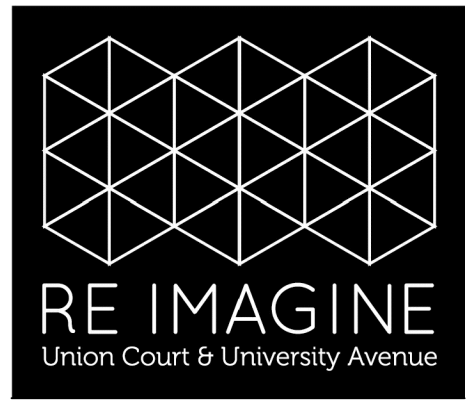


B SECTION
059 SCALE 1 : 200



C SECTION
059 SCALE 1 : 200

NOTE:
1. PRIOR TO EXCAVATION FOR RETAINING WALL ROCK TO BE INVESTIGATED BY GEOTECHNICAL ENGINEER TO DETERMINE IF UNDERPINNING OF EXISTING FOOTINGS IS REQUIRED.



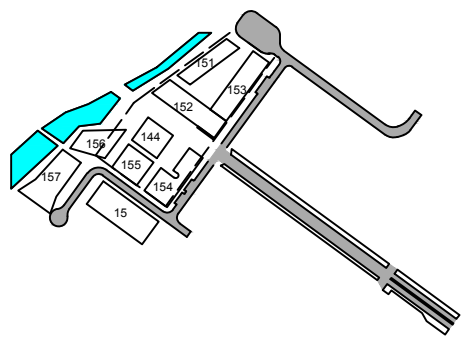
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Drawn: R.TORRES
Designed: N.CORTESE
Drafting: [blank]
Check: [blank]
Approved: (Project Director)
Date: [blank]
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ISSUE DATE FOR DRWN CHKD APPD
1 07.04.17 WORKS APPROVAL RT JK DU

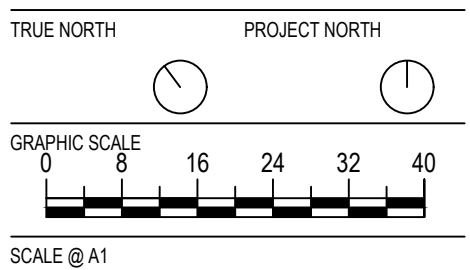


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BVM
TEL 02 8297 7200
LANDSCAPE
LAHZ NIMMO ARCHITECTS
TEL 02 9550 5200
ASPECT STUDIO
TEL 03 9417 6844
ENGINEERING
GHD
TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY



1:800 DO NOT SCALE
STATUS

WORKS APPROVAL
DRAWING
EARLY WORKS
NORTH LOOP, WEST LOOP
AND CHIFLEY LANE
BULK EARTH WORKS
DRAWING NUMBER ISSUE
UC-GHD-DWG-144-059 (1)

PRELIMINARY

DATUM: 560.000					
DESIGN SURFACE LEVEL			566.023	565.953	
DEPTH CUT - / FILL +			-0.452	-0.436	
EXISTING SURFACE LEVEL			566.475	566.369	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 60.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.933	565.863	
DEPTH CUT - / FILL +			-0.497	-0.477	
EXISTING SURFACE LEVEL			566.360	566.340	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 75.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.849	565.779	
DEPTH CUT - / FILL +			0.273	0.280	
EXISTING SURFACE LEVEL			565.475	565.408	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 90.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.953	565.883	
DEPTH CUT - / FILL +			-0.363	-0.402	
EXISTING SURFACE LEVEL			566.415	566.365	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 55.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.953	565.883	
DEPTH CUT - / FILL +			-0.484	-0.462	
EXISTING SURFACE LEVEL			566.377	566.355	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 70.000

DATUM: 565.000					
DESIGN SURFACE LEVEL			565.976	565.906	
DEPTH CUT - / FILL +			0.288	0.214	
EXISTING SURFACE LEVEL			565.588	565.592	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 85.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.983	565.913	
DEPTH CUT - / FILL +			-0.356	-0.392	
EXISTING SURFACE LEVEL			566.439	566.394	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 50.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.993	565.923	
DEPTH CUT - / FILL +			-0.473	-0.445	
EXISTING SURFACE LEVEL			566.396	566.387	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 65.000

DATUM: 560.000					
DESIGN SURFACE LEVEL			565.904	565.834	
DEPTH CUT - / FILL +			0.285	0.231	
EXISTING SURFACE LEVEL			565.619	565.603	
OFFSET FROM CENTRELINE			-11.400	-7.900	

CH 80.000



NOTE
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Drafting Check		Design Check	
Approved (Project Director)			
Date	FEB 2017		
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Note: * indicates signatures on original issue of drawing or last revision of drawing.			
ISSUE DATE	FOR	DRWN	CHKD
01	01.03.17	PRELIMINARY	RT NC

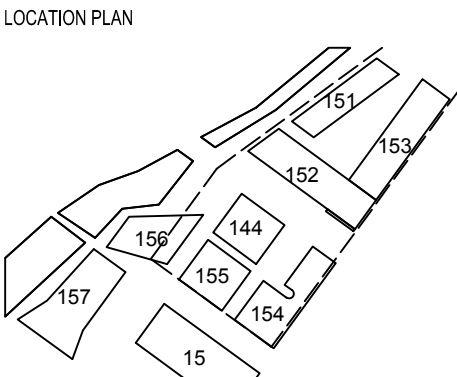


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RMS
TEL 02 6125 5309
ARCHITECT
BVM
TEL 02 8297 7200

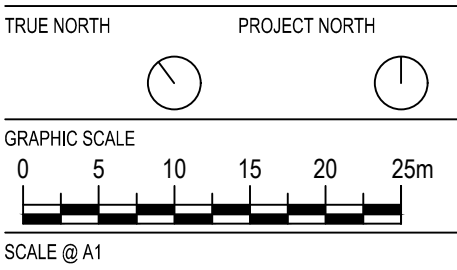
LANDSCAPE
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ASPECT STUDIO
TEL 03 9417 6844
ENGINEERING
lahznimmo architects
ASPECT Studios

GHD
TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION SQUARE REDEVELOPMENT
CANBERRA, ACT



DRAWING KEY



AS SHOWN DO NOT SCALE
STATUS

DETAILED DESIGN
DRAWING

EARLY WORKS
UNIVERSITY AVENUE
CROSS SECTIONS
SHEET 2

DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-062	01



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Drawn	R.TORRES	Designed	N.CORTESE
Drafting		Check	

Approved
(Project Director)

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ISSUE DATE	FOR	DRWN	CHKD	APPD
1	18.04.17	WORKS APPROVAL	RT	JK DU



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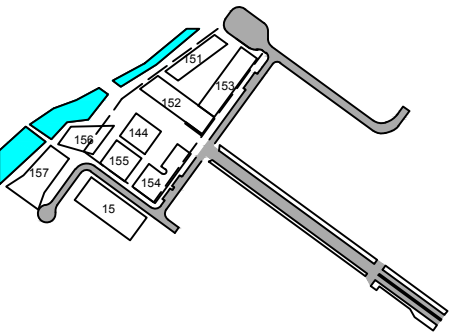


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ASPECT STUDIO
TEL 03 9417 6844
ENGINEERING

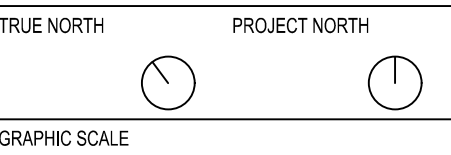
GHD
TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT

LOCATION PLAN



DRAWING KEY



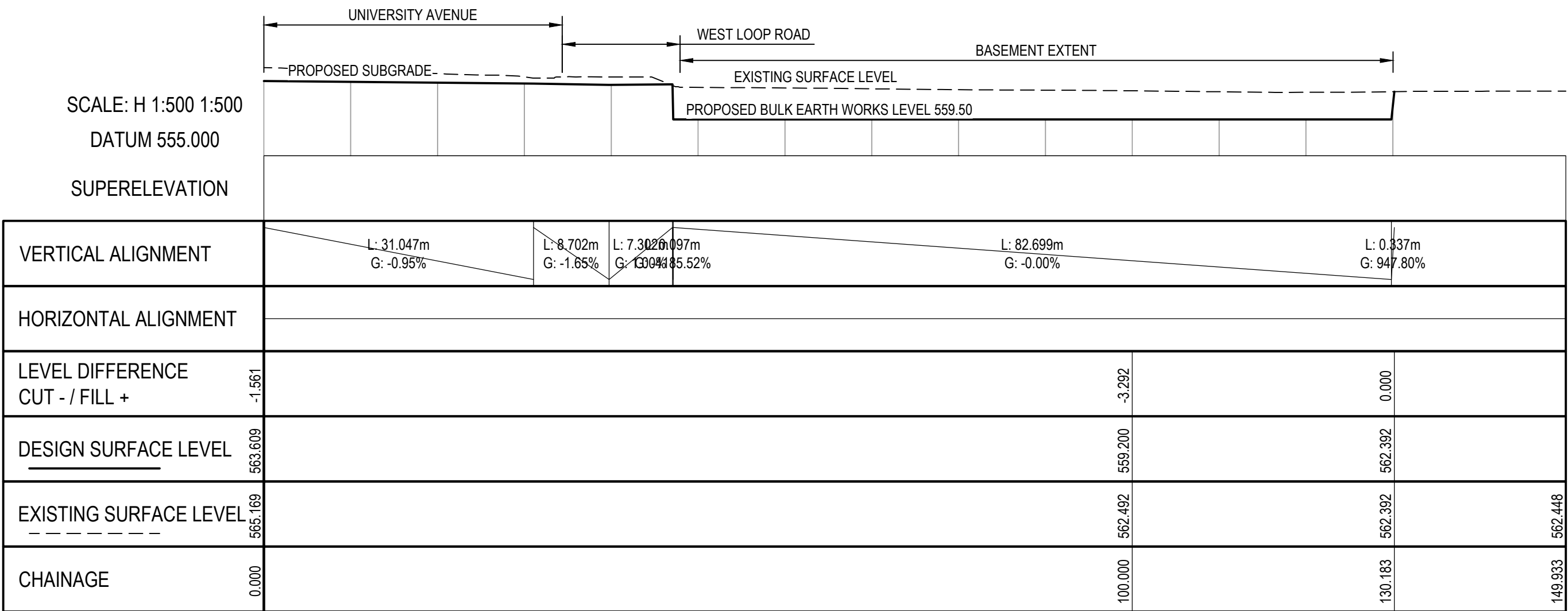
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STATUS

SCHEMATIC DESIGN
DRAWING

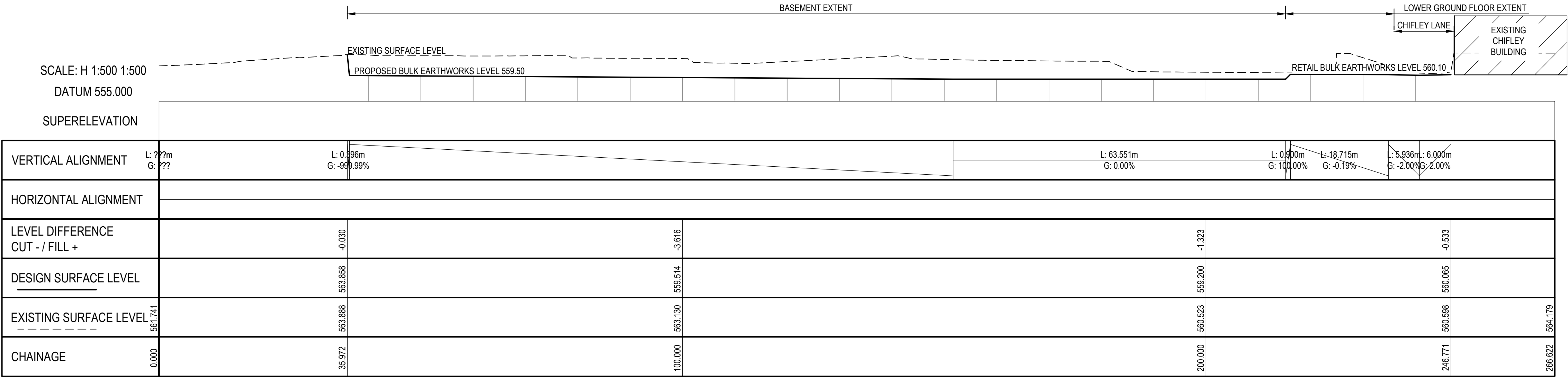
EARLY WORKS
BULK EXCAVATION
SECTIONS
BULK EARTH WORKS

DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-063	(1)

PRELIMINARY



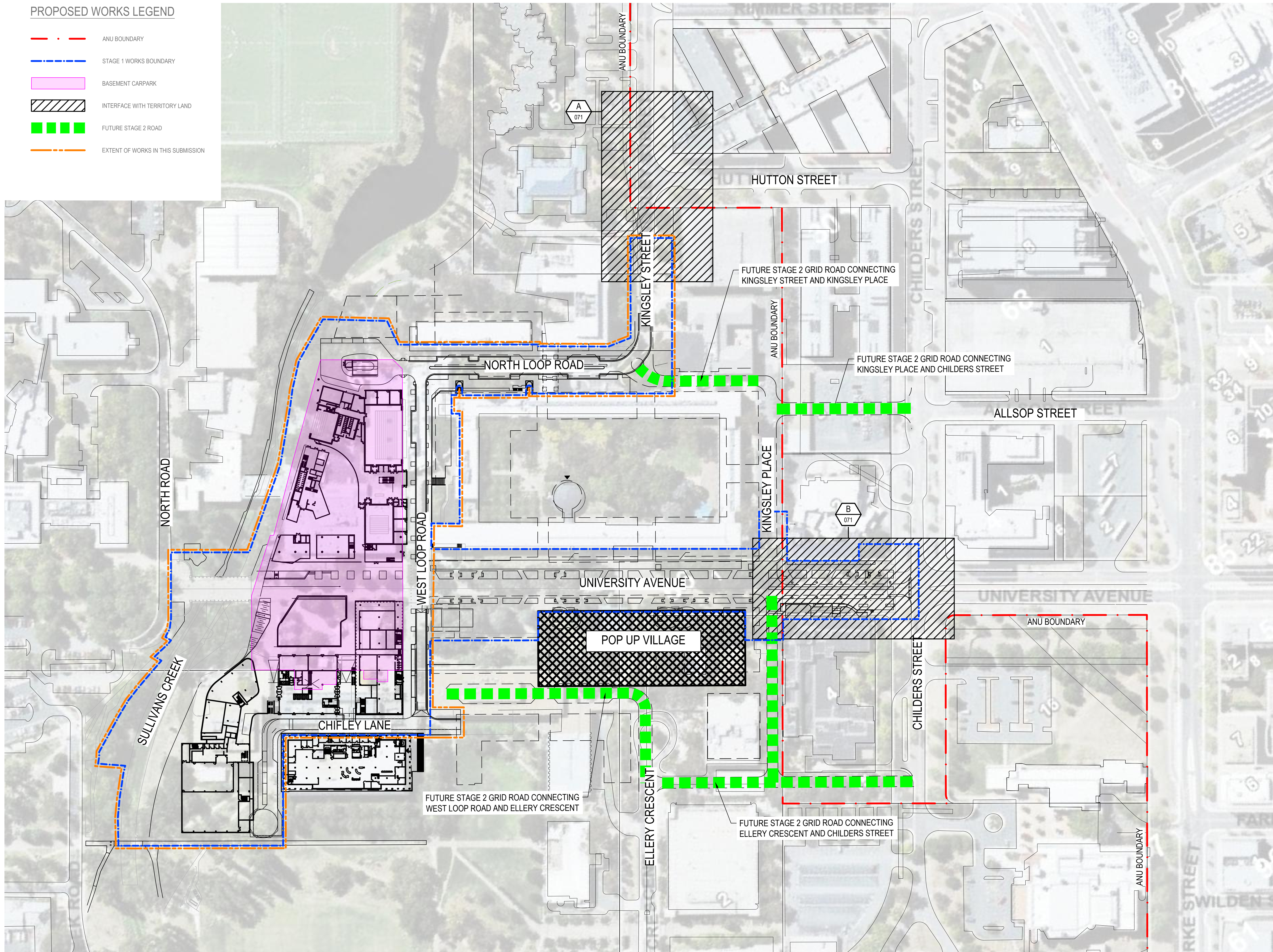
BULK EXCAVATION SECTION - EAST TO WEST - LONGITUDINAL SECTION



BULK EXCAVATION SECTION - NORTH TO SOUTH - LONGITUDINAL SECTION

PROPOSED WORKS LEGEND

- ANU BOUNDARY
- STAGE 1 WORKS BOUNDARY
- BASEMENT CARPARK
- INTERFACE WITH TERRITORY LAND
- FUTURE STAGE 2 ROAD
- EXTENT OF WORKS IN THIS SUBMISSION



NOTE
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Drawn: D.IONKO
Designed: N.CORTESE

Drafting Check: Design Check

Approved (Project Director):

Date:

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ISSUE DATE FOR DRWN CHKD APPD

1 24.03.17 PRELIMINARY DI BH BH

2 07.04.17 WORKS APPROVAL DI NC DU

CLIENT



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ARCHITECT

BVN
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LANDSCAPE

LAHZ NIMMO ARCHITECTS
TEL 02 9550 5200

ASPECT STUDIO
TEL 03 9417 6844

ENGINEERING

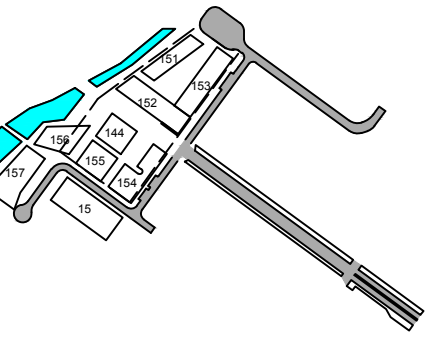
GHD
TEL 61 2 6113 3200

CONSULTANT

PROJECT

AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT

LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

0 10 20 30 40 50m

SCALE @ A1

1:1000 DO NOT SCALE

STATUS

WORKS APPROVAL

DRAWING

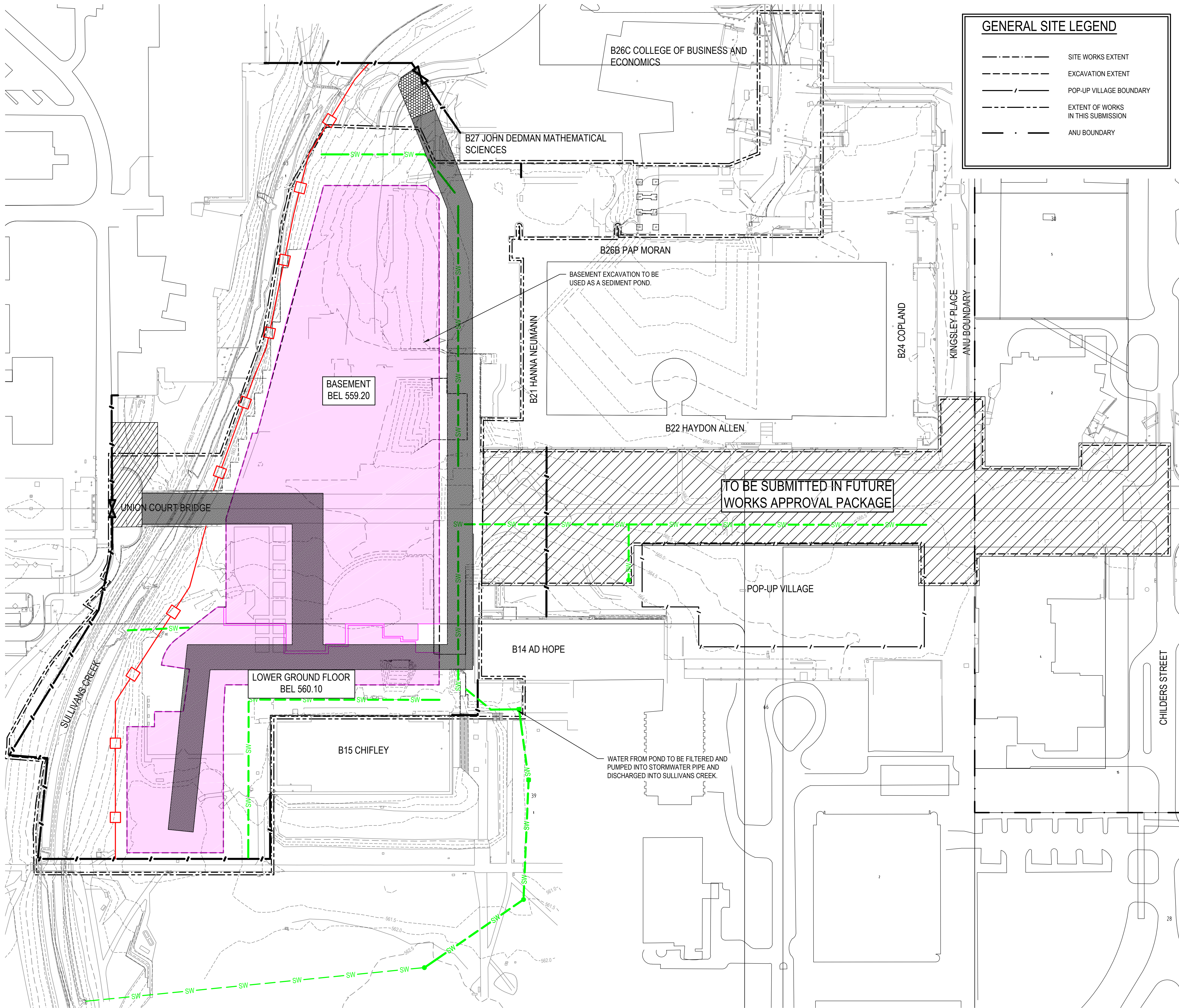
EARLY WORKS
UNION COURT PRECINCT
GRID ROAD
MASTER PLAN

DRAWING NUMBER

ISSUE

UC-GHD-DWG-CV-144-070 (2)

PRELIMINARY



GENERAL SITE LEGEND

- SITE WORKS EXTENT
- - - EXCAVATION EXTENT
- / - POP-UP VILLAGE BOUNDARY
- - - EXTENT OF WORKS IN THIS SUBMISSION
- . - ANU BOUNDARY

LEGEND

- SW --- NEW STORMWATER SERVICE
- SITE GATE
- SITE FENCE
- SILT FENCE
- STABILISED ACCESS
- HAULAGE PATH
- BASEMENT EXCAVATION
- SITE COMPOUND

- NOTES:**
- SITE FACILITIES LOCATION TO BE DETERMINED BY CONTRACTOR AND STAGED TO SUIT CONSTRUCTION STAGING.
 - THIS DRAWING SHOWS BASIC CONCEPT ONLY. DETAILED CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN TO BE PREPARED AND IMPLEMENTED BY BUILDER REFLECTING CONSTRUCTION STAGING.
 - STORMWATER WILL POND IN THE BASEMENT EXCAVATION DURING CONSTRUCTION AND MUST BE TREATED TO SETTLE SEDIMENT PRIOR TO PUMPING TREATED WATER INTO THE ADJACENT STREET STORMWATER DRAIN.
 - TREATED WATER DISCHARGE MUST HAVE NO VISIBLE COLOUR & CONTAIN LESS THAN 30 PPM OF SUSPENDED SOLIDS.
 - CONTRACTOR TO PREPARE DETAILED SEDIMENT AND EROSION CONTROL PLAN FOR SEWER WORKS ACROSS ANKETELL STREET AND WORKS IN LIMBURG WAY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SEDIMENT EROSION CONTROL DETAILS DRAWING UC-GHD-DWG-CV-144-074.



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Drawn	R.TORES	Designed	N.CORTESE
Drafting		Design	
Check		Check	

Approved
(Project Director)
Date

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ISSUE DATE	FOR	DRWN	CHKD	APPD
1	24.03.17 PRELIMINARY	RT	BH	BH
2	07.04.17 WORKS APPROVAL	RT	JK	DU



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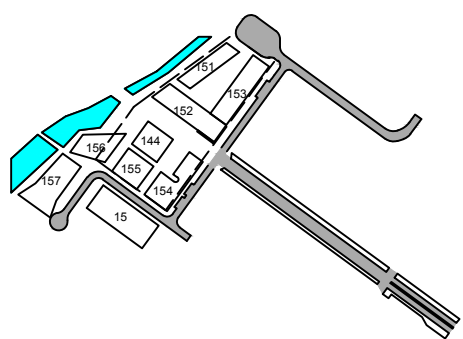
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ARCHITECT

BVN
TEL 02 8297 7200
LANDSCAPE

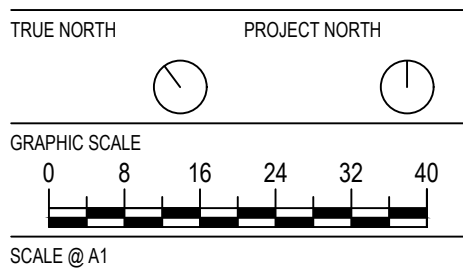
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UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY



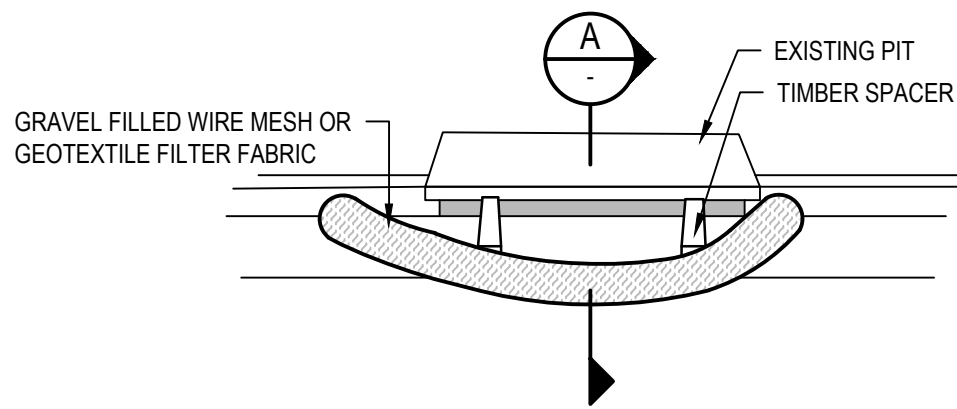
1:800
STATUS
DO NOT SCALE

WORKS APPROVAL
DRAWING

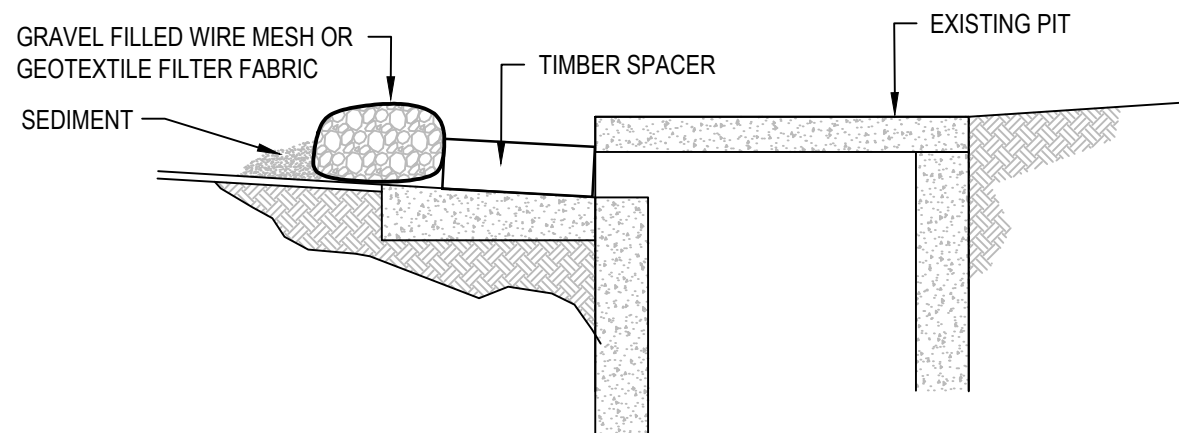
EARLY WORKS
CONCEPT SEDIMENT AND
EROSION CONTROL PLAN

DRAWING NUMBER	ISSUE
UC-GHD-DWG-CV-144-073	(2)

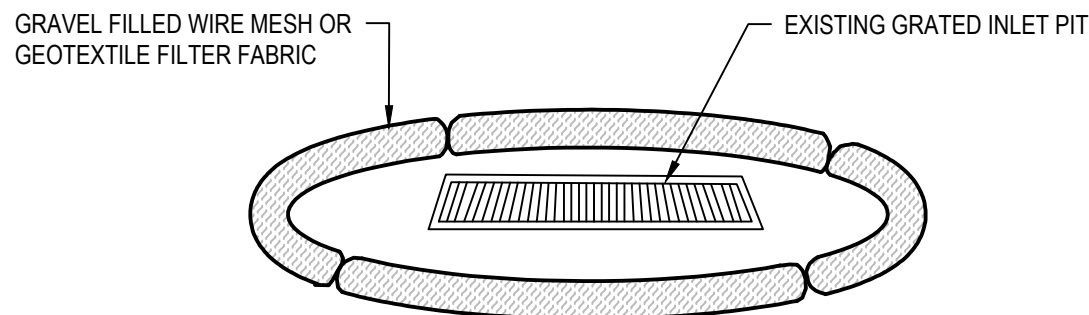
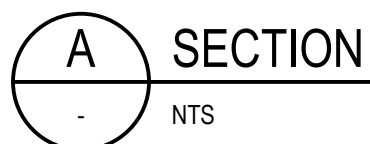
PRELIMINARY



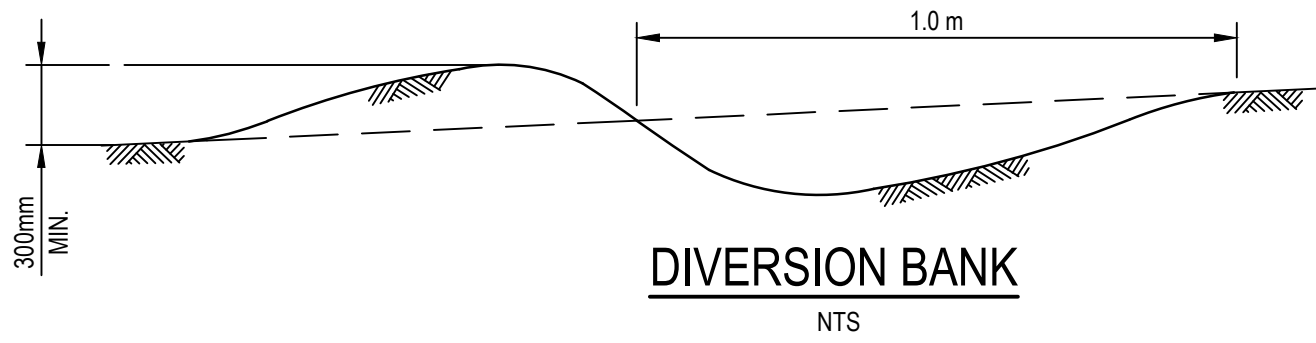
KERB INLET FILTER
NTS



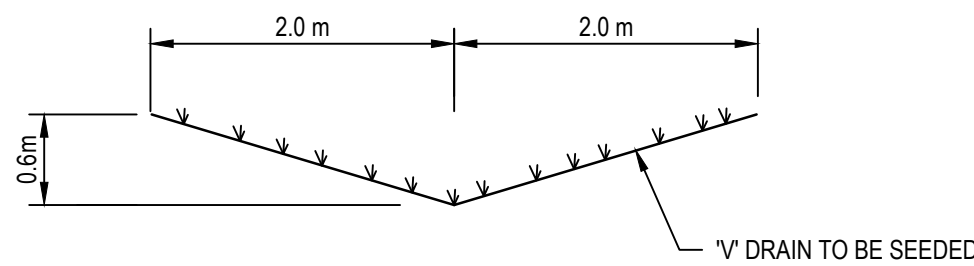
KERB INLET FILTER



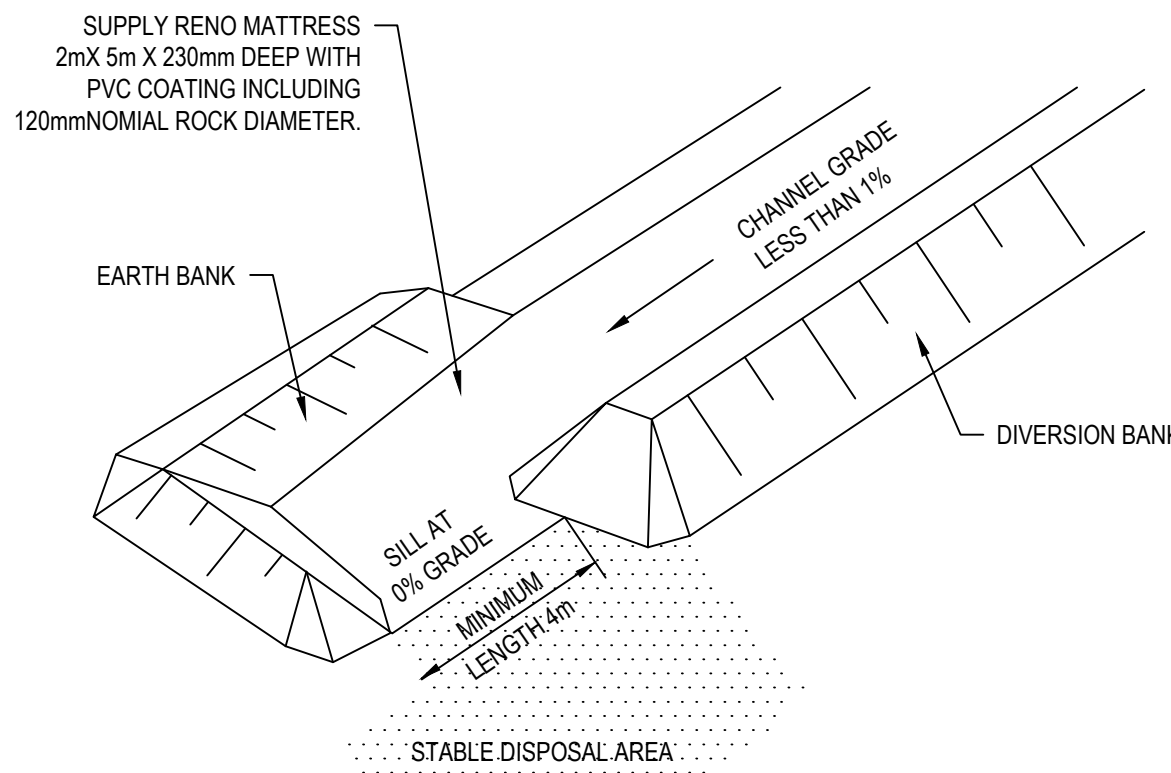
GRATED INLET FILTER
NTS



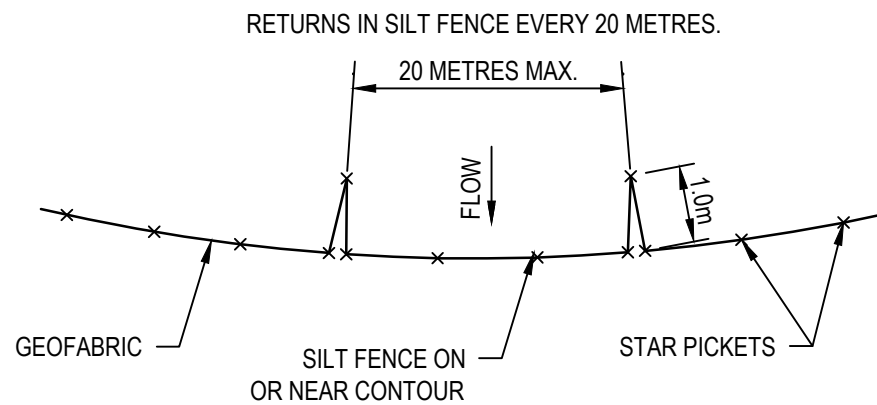
DIVERSION BANK
NTS



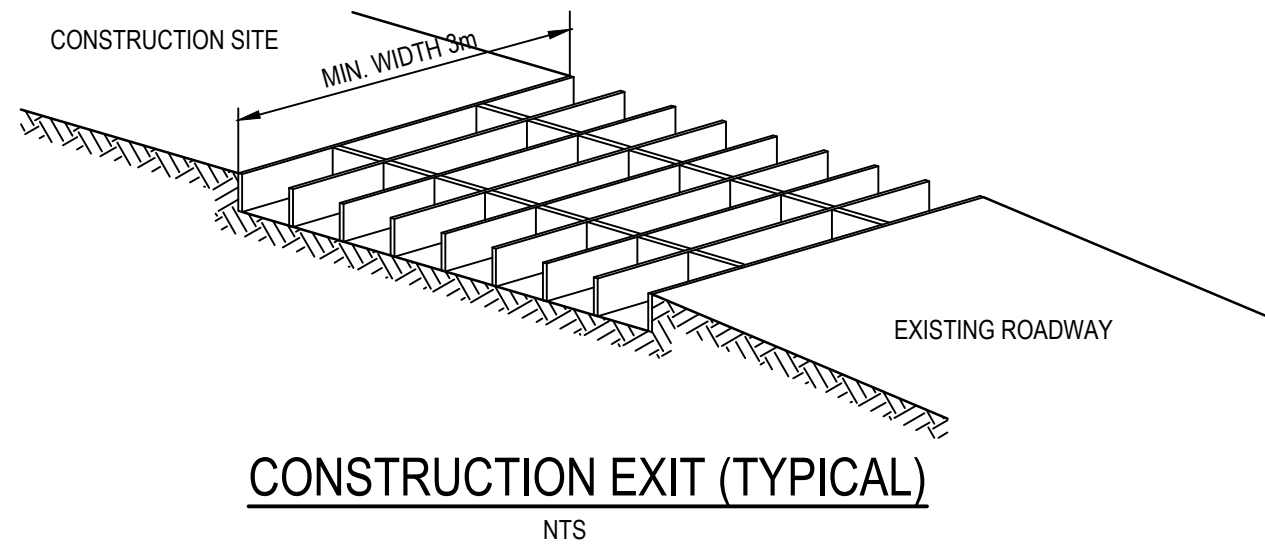
'V' DRAIN (TYPICAL)
NTS



LEVEL SPREADER
NTS



GEOFABRIC SILT FENCE FLOW BARRIERS
NTS



CONSTRUCTION EXIT (TYPICAL)
NTS

GENERAL INSTRUCTIONS:

- G1 ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AND STRUCTURES SHALL BE LOCATED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLAN AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES AND PRINCIPLES AS OUTLINED IN 'URBAN EROSION AND SEDIMENT CONTROL DESIGN MANUAL (UESCDM)' AS PRODUCED BY THE ACT GOVERNMENT.
- G2 THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED BY THE SITE SUPERINTENDENT RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
- G3 THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SEDIMENT AND EROSION CONTROL WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION OR IN ANY SUBSEQUENT SITE INSTRUCTION.
- G4 ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES BY THE SITE SUPERINTENDENT IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.
- G5 SEDIMENT PONDS TO BE CONSTRUCTED IN ACCORDANCE WITH "SOILS AND CONSTRUCTION VOLUME 1" 4TH EDITION MARCH 2004.

SEDIMENT CONTROL:

- S1 SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, EG, THROUGH INSTALLATION OF "SILT" FENCING: NO STOCKPILES ONSITE
- S2 ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) IS TO BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- S3 WATER IS TO BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- S4 TEMPORARY SEDIMENT AND EROSION CONTROL STRUCTURES ARE TO BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED AND WHEN REMOVAL IS APPROVED BY THE SITE SUPERINTENDENT.

LAND DISTURBANCE:

- L1 THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE AND PRACTICAL. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING GENERAL SEQUENCE:
- A CONSTRUCTION OF SEDIMENT AND EROSION CONTROLS.
- B REHABILITATION OF ANY DISTURBED LANDS WITHIN 20 WORKING DAYS.
- C UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

ADDITIONAL MATTERS:

- A1 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- A2 ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- A PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.
- B ENSURING THAT NOTHING IS NAILED TO THEM.
- C PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- I ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 M OR HALF DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER.
- II A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (EG, A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MM DEPTH.
- III CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

INSPECTION AND MAINTENANCE:

- I1 RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT AND GENERALLY OFF SITE.
- I2 AT LEAST DAILY, THE CONTRACTOR WILL INSPECT THE SITE AND ENSURE THAT:
- A DRAINS OPERATE EFFECTIVELY AND INITIATE REPAIR OR MAINTENANCE AS REQUIRED.
- B SPILLED SOIL (OR OTHER MATERIAL) IS REMOVED FROM HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, GUTTERS, PAVED AREAS AND DRIVEWAYS.
- C SEDIMENT IS REMOVED FROM BASINS AND/OR TRAPS WHEN LESS THAN 50% OF TRAPPING CAPACITY REMAIN AND/OR LESS THAN 500 MM DEPTH REMAINS IN THE SETTLING ZONE. ANY COLLECTED SEDIMENT WILL BE DISPOSED IN AREAS WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS IS UNLIKELY.
- D REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND INITIATE UPGRADING OR REPAIRS AS APPROPRIATE.
- I3 THE CONTRACTOR SHALL PROVIDE & MAINTAIN A 'LOG BOOK' TO RECORD INFORMATION & DATA WITH RESPECT TO THE SEDIMENT & EROSION CONTROL PLAN. INFORMATION RECORDED MUST INCLUDE:
- A RAINFALL EVENTS
- B RAINFALL IN MILLIMETRES
- C RESULTS OF ANY INSPECTIONS

STANDARD CONSTRUCTION GUIDELINES AND DETAILS		
SECTION	SECTION TITLE	STANDARD DETAIL
SECTION 4.1	VEGETATIVE COVER	
SECTION 4.2	STABILISED ACCESS POINTS	FIG 1 - STABILISED ACCESS POINT
SECTION 4.3	EARTHWORKS	
SECTION 4.4	DIVERSION OF SURFACE WATER	FIG 2 - EARTH BANK FIG 3 - EARTH BANK (HIGH FLOW - TYPE 1) FIG 4 - EARTH BANK (HIGH FLOW - TYPE 2)
SECTION 4.5	LEVEL SPREADER	FIG 5 - LEVEL SPREADER
SECTION 4.6	SEDIMENT CONTROL POND	FIG 6 - SEDIMENT CONTROL POND - PLAN FIG 7 - SEDIMENT CONTROL POND - SECTION
SECTION 4.9	SEDIMENT TRAPS FOR CHANNEL RUNOFF	FIG 10 - ROCK BUND - GABION FIG 11 - GEOTEXTILE SEDIMENT TRAP FIG 12 - STRAW BALE CHECK DAM FIG 13 - STRAW BALE CHECK DAM DETAIL
SECTION 4.10	SEDIMENT CONTROL BARRIER	FIG 14 - GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIER - PLAN FIG 15 - GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIER - SECTION

THIS LIST OF STANDARD DETAILS ARE FROM THE ACT ENVIRONMENT PROTECTION AUTHORITY - ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT. THESE SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THESE GUIDELINES AND ANY SPECIFIC SITE REQUIREMENTS DETAILS ON THIS PLAN



NOTE
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK OR PREPARATION OF SHOP DRAWINGS. DO NOT SCALE THIS DRAWING.

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Designed: N.CORTESE
Drafting Check: Design Check

Approved (Project Director)
Date
This Drawing must not be used for Construction unless signed as Approved.

Note: * Indicates signatures on original issue of drawing or last revision of drawing.

ISSUE DATE FOR DRWN CHKD APPD
1 07.04.17 WORKS APPROVAL RT JK DU



CLIENT AGENT

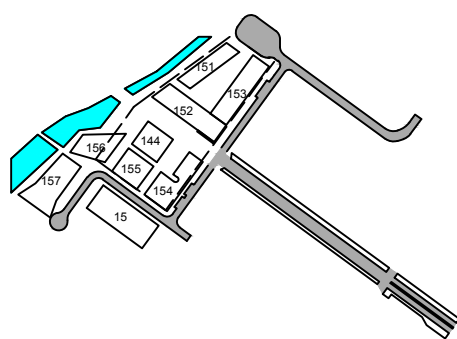
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TEL 61 2 6113 3200
CONSULTANT

PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
UNION COURT REDEVELOPMENT
CANBERRA, ACT
LOCATION PLAN



DRAWING KEY

TRUE NORTH PROJECT NORTH
GRAPHIC SCALE

SCALE @ A1

DO NOT SCALE

STATUS

WORKS APPROVAL
DRAWING

EARLY WORKS
SEDIMENT AND EROSION
DETAILS

DRAWING NUMBER ISSUE
UC-GHD-DWG-CV-144-074 (1)

PRELIMINARY

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ISSUE	DATE	FOR
01	31.01.2017	SCHEMATIC DESIGN
02	14.02.2017	SCHEMATIC DESIGN
03	13.03.2017	FOR INFORMATION
04	06.04.2017	FOR APPROVAL
05	13.04.2017	FOR APPROVAL
06	10.08.2017	NCA SUBMISSION

CLIENT



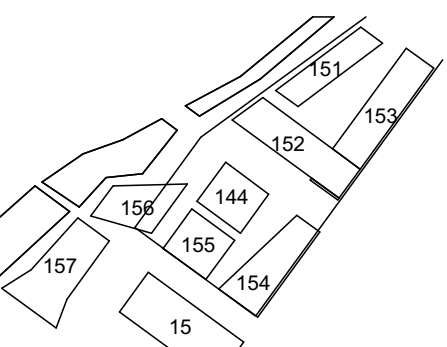
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RMS
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PROJECT
AUSTRALIAN NATIONAL UNIVERSITY
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CANBERRA, ACT
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DRAWING KEY

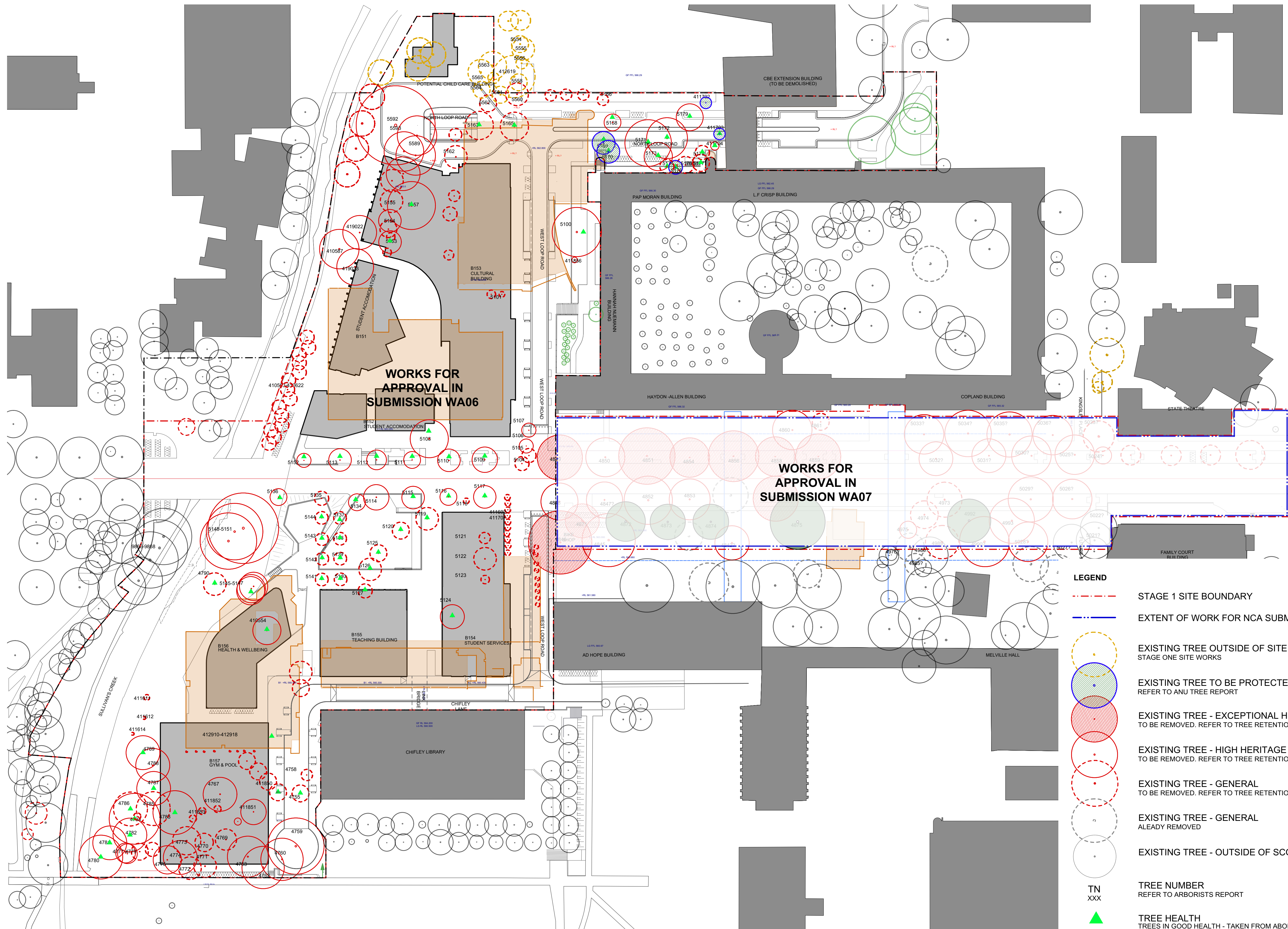
TRUE NORTH PROJECT NORTH
GRAPHIC SCALE

SCALE @ A1
Scale 1:700 @ A1 DO NOT SCALE
STATUS

SCHEMATIC DESIGN
DRAWING

TREE MANAGEMENT
PLAN

DRAWING NUMBER	ISSUE
UL-LNAS-DWG-LS-144-SK0051	06



LEGEND

- STAGE 1 SITE BOUNDARY
- EXTENT OF WORK FOR NCA SUBMISSION
- EXISTING TREE OUTSIDE OF SITE BOUNDARY TO BE REMOVED
STAGE ONE SITE WORKS
- EXISTING TREE TO BE PROTECTED AND TRANSPLANTED
REFER TO ANU TREE REPORT
- EXISTING TREE - EXCEPTIONAL HERITAGE SIGNIFICANCE
TO BE REMOVED. REFER TO TREE RETENTION AND REMOVAL PLAN AND REPORT.
- EXISTING TREE - HIGH HERITAGE SIGNIFICANCE
TO BE REMOVED. REFER TO TREE RETENTION AND REMOVAL PLAN AND REPORT.
- EXISTING TREE - GENERAL
TO BE REMOVED. REFER TO TREE RETENTION AND REMOVAL PLAN AND REPORT.
- EXISTING TREE - GENERAL
ALREADY REMOVED
- EXISTING TREE - OUTSIDE OF SCOPE

- TN
XXX
- TREE HEALTH
TREES IN GOOD HEALTH - TAKEN FROM ARBORIST REPORT
- EXISTING PUBLIC DOMAIN STRUCTURES TO BE DEMOLISHED
STAGE ONE WORKS
- BUILDINGS TO BE RETAINED
STAGE ONE WORKS
- PROPOSED BUILDINGS
STAGE ONE WORKS