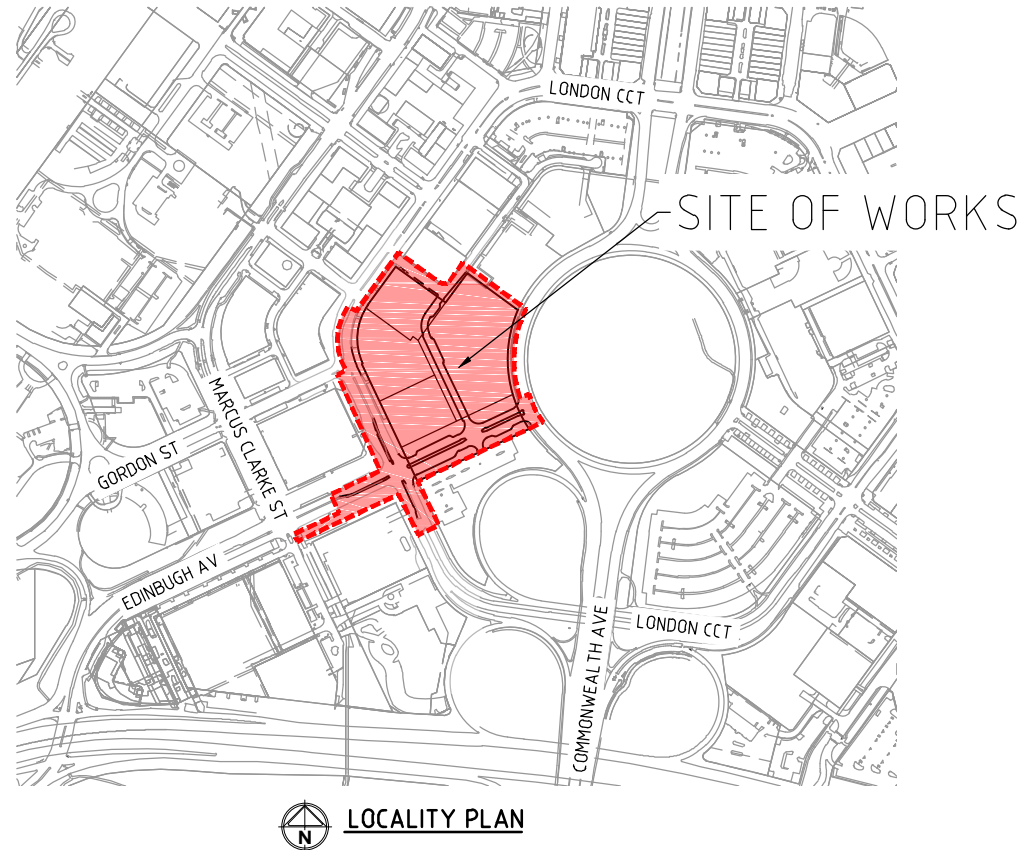


SECTION 100 CANBERRA CITY MPG CONSTRUCTIONS

DRAWING SCHEDULE

REFERENCE	DESCRIPTION	REVISION
305632CR100	COVER SHEET	A
305632CF200	GENERAL ARRANGEMENT PLAN	A
305632CF215	STAGING PLAN	A
305632CD100	STORMWATER MASTER PLAN	A
305632CS200	SEWER MASTER PLAN	A
305632CS201	SEWER LONG SECTION	A
305632CW200	WATER MASTER PLAN	A
305632CF300	SHARED TRENCH PLAN	A
305632CR200	TYPICAL CROSS SECTIONS EDINBURGH AVENUE SHEET 1	A
305632CR201	TYPICAL CROSS SECTIONS EDINBURGH AVENUE SHEET 2	A
305632CR202	TYPICAL CROSS SECTIONS KNOWLES PLACE SHEET 1	A
305632CR203	TYPICAL CROSS SECTIONS KNOWLES PLACE SHEET 2	A
305632CR300	LONGITUDINAL SECTIONS EDINBURGH AVENUE	A
305632CR301	CROSS SECTIONS EDINBURGH AVENUE	A
305632CR302	LONGITUDINAL SECTION AND CROSS SECTIONS KNOWLES PLACE	A
305632CR400	PAVEMENT PLAN	A
305632CE200	ENVIRONMENTAL MANAGEMENT CONCEPT PLAN	A
305632CF250	DEMOLITION PLAN	A
305632CE220	FENCING PLAN	A
305632CR500	TURNING MOVEMENTS DETAILS SHEET 1	A
305632CR501	TURNING MOVEMENTS DETAILS SHEET 2	A
305632CR502	TURNING MOVEMENTS DETAILS SHEET 3	A
305632LD400	SURFACES AND FINISHES PLAN SHEET 1	A
305632LD401	SURFACES AND FINISHES PLAN SHEET 2	A
305632LD800	CROSS SECTIONS	A
305632LD900	MATERIALS PALETTE	A
305632TMP01	TREE MANAGEMENT PLAN	A



LEGEND

DESCRIPTION	EXISTING	PROPOSED
EXTENT OF WORKS		
WATER MAIN, VALVE AND HYDRANT		
WATER RECYCLED		
UNDERGROUND ELECTRICITY		
OVERHEAD ELECTRICITY AND POLE		
TELSTRA AND SERVICE PIT		
OVERHEAD TELSTRA		
OPTIC FIBRE		
GAS MAIN		
BRANCH SEWER AND MANHOLE		
SEWER AND MANHOLE		
SEWER RISING MAIN		
CENTRAL INVERT		
STORMWATER MAIN		
STORMWATER PITS		
HOUSE DRAIN		
SUBSOIL DRAIN AND FLUSHING POINT		
CONCRETE VEHICLE CROSSING		
DRIVEWAYS		
SURFACE CONTOUR MINOR		
SURFACE CONTOUR MAJOR		
SURFACE LEVEL		
SIGN AND POST		
BOLLARD		
ROAD CHAINAGES		
BATTER		
PARKING BAY/PAVED AREA		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		
NCA WORKS APPROVAL AREA		



WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY
AND THEIR EXACT POSITION SHOULD BE PROVEN ON
SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING
SERVICES ARE SHOWN. SPECIAL CONSIDERATION
SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES
UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

WORKS APPROVAL SUBMISSION

A	WORKS APPROVAL	MFB	24-09-18
Rev	Amendments	Approved	Date



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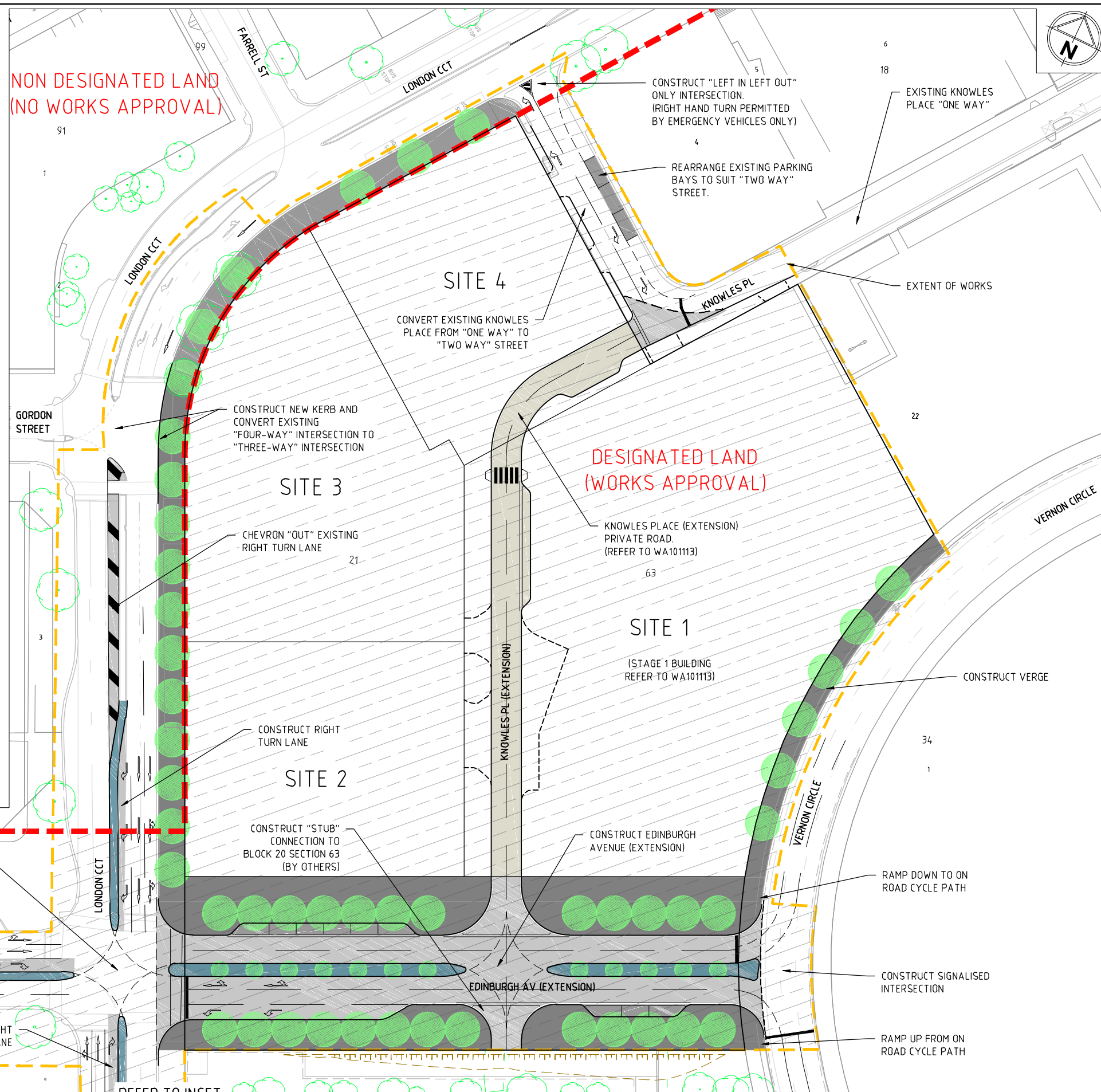
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Date
24-09-18

SECTION 100 CANBERRA CITY WORKS APPROVAL COVER SHEET

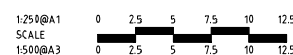
MPG CONSTRUCTIONS

PRELIMINARY Drg No
305632CR100

EXTENT OF WORKS	
DESIGNATED LAND/NON DESIGNATED LAND BOUNDARY	
NCA WORKS APPROVAL AREA	
ROAD WORKS (PUBLIC)	
PRIVATE ROAD	
CONCRETE MEDIAN	
VERGE PAVING	
EXISTING TREE	
PROPOSED TREE	



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**SECTION 100 CANBERRA CITY
WORKS APPROVAL**
GENERAL ARRANGEMENT PLAN

MPG CONSTRUCTIONS

PRELIMINARY Drg No **305632CF200**

Rev

STAGING SEQUENCE

STAGE 1 (OFFSITE WORKS)

- CONSTRUCT TEMPORARY DRIVEWAY OFF LONDON CIRCUIT TO EXISTING CAR PARK ON BLOCK 20 SECTION 63 PRIOR TO CONSTRUCTION OF EDINBURGH AVENUE EXTENSION.
- CONSTRUCT EDINBURGH AVENUE EXTENSION AND ASSOCIATED HYDRAULIC WORKS
- MODIFY LONDON CIRCUIT/EDINBURGH AVENUE INTERSECTION. CONSTRUCT NEW "FOUR-WAY" SIGNALISED INTERSECTION.
- SIGNALISE INTERSECTION OF EDINBURGH AVENUE EXTENSION AND VERNON CIRCUIT.
- CONVERT EXISTING GORDON STREET/ LONDON CIRCUIT INTERSECTION TO A "THREE-WAY" INTERSECTION ONCE STAGE 1 ONSITE WORKS ARE COMPLETED.
- CONVERT EXISTING KNOWLES PLACE TO A "TWO-WAY" STREET ONCE STAGE 1 ONSITE WORKS ARE COMPLETED.
- CONSTRUCT NEW VERGE WORKS.

STAGE 2 (OFF SITE WORKS)

- CONSTRUCT VERGE WORKS

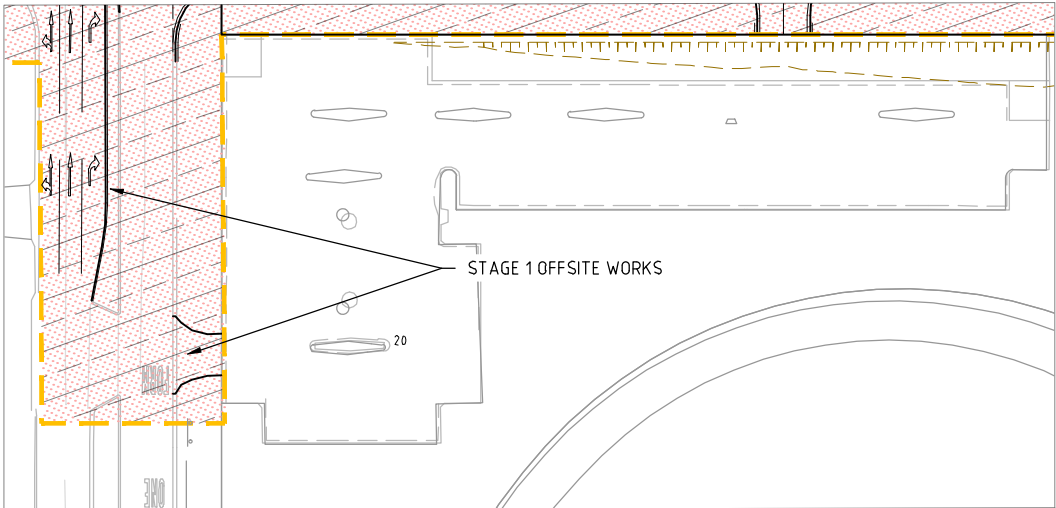
STAGE 3 (OFF SITE WORKS)

- CONSTRUCT VERGE WORKS

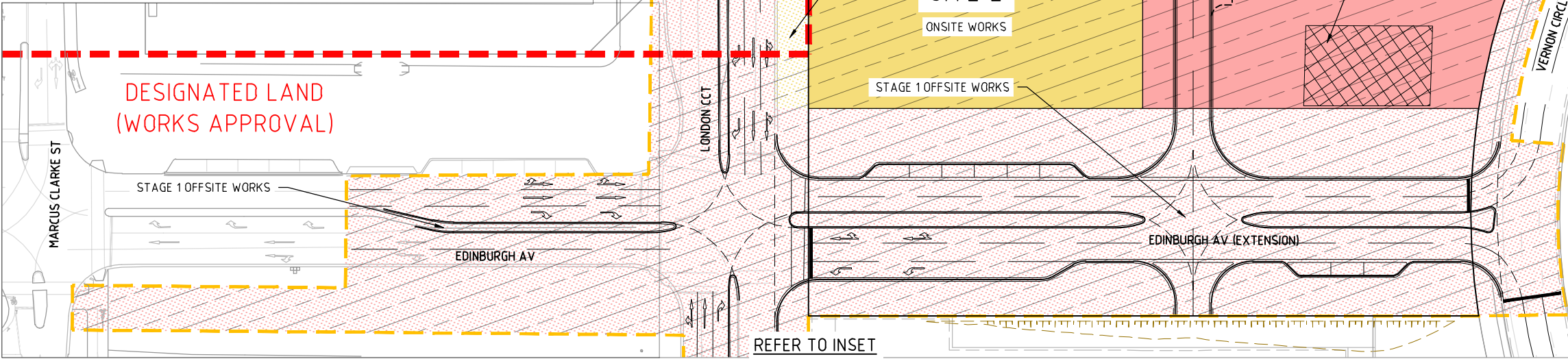
STAGE 4 (OFF SITE WORKS)

- CONSTRUCT VERGE WORKS

(NOTE: CONSTRUCTION OF KNOWLES PLACE "STUB" TO BLOCK 20 SECTION 23 BY OTHERS)



INSET



LEGEND:

- EXTENT OF WORKS
- DESIGNATED/NON DESIGNATED LAND BOUNDARY
- NCA WORKS APPROVAL AREA
- STAGE 1 ONSITE WORKS
- STAGE 2 ONSITE WORKS
- STAGE 3 ONSITE WORKS
- STAGE 4 ONSITE WORKS
- STAGE 1 OFFSITE WORKS
- STAGE 2 OFFSITE WORKS
- STAGE 3 OFFSITE WORKS
- STAGE 4 OFFSITE WORKS

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file location: G:\30\305632\civil\A400\plot date: 24/09/2018 11:40 AM Sheet 3 of 22 Sheets

A	WORKS APPROVAL	MFB	24-09-18	
Rev	Amendments	Approved	Date	

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1:500@A3

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0 2.5 5 7.5 10 12.5



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SECTION 100 CANBERRA CITY
WORKS APPROVAL
STAGING PLAN

MPG CONSTRUCTIONS

PRELIMINARY Drg No
305632CF215

Rev
A

- NOTES:
- PIPE MATERIAL TO BE CLASS 2 UNLESS OTHERWISE NOTED.
 - ALL STORMWATER PIPELINES UP TO AND INCLUDING 675Ø LOCATED UNDER ROADWAYS SHALL HAVE RUBBER RING JOINTS.
 - HEAVY DUTY STORMWATER MANHOLE COVERS SHALL BE GATIC CLASS D.

STORMWATER DATA

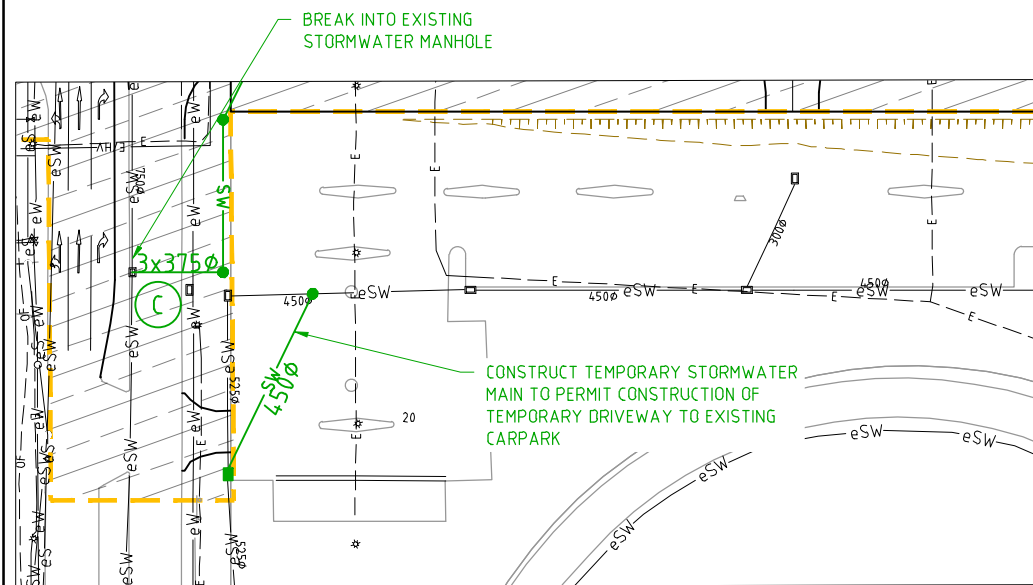
(A) CATCHMENT AREA 1.33 Ha
20 YEAR ARI 0.20m³ s/m
100 YEAR ARI 0.27m³ s/m
GAP FLOW 0.17m³ s/m

(B) CATCHMENT AREA 1.0 Ha
20 YEAR ARI 0.35m³ s/m
100 YEAR ARI 0.49m³ s/m
GAP FLOW 0.32m³ s/m

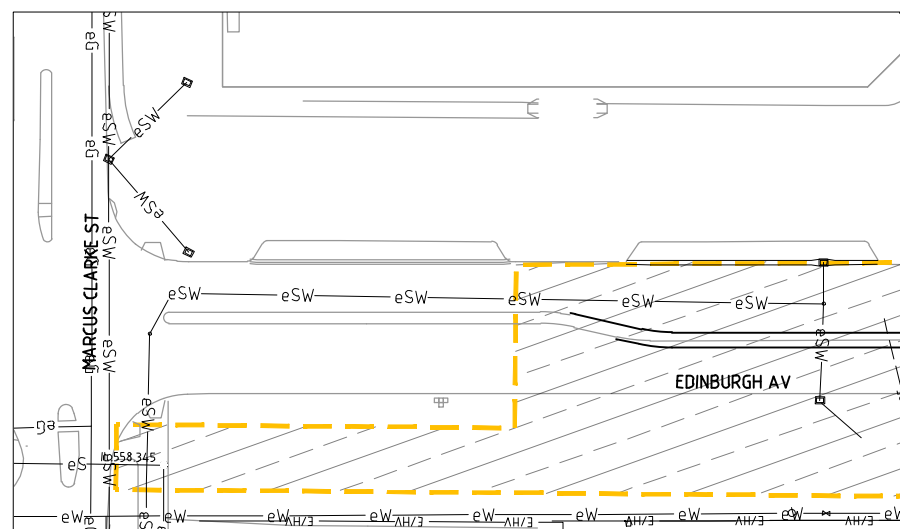
STORMWATER DATA

(C) CATCHMENT AREA 13.1 Ha
20 YEAR ARI 0.53m³ s/m
100 YEAR ARI 0.73m³ s/m
GAP FLOW 0.46m³ s/m

(D) CATCHMENT AREA 0.11 Ha
20 YEAR ARI 0.02m³ s/m
100 YEAR ARI 0.03m³ s/m
GAP FLOW 0.02m³ s/m



INSET



REFER TO INSET

LEGEND:

LOW POINT



HIGH POINT



OVERLAND FLOW PATH



STORMWATER MAIN



STORMWATER MANHOLE



STORMWATER SUMP



STORMWATER TO BE REMOVED AFTER NEW STORMWATER IS CONSTRUCTED AND CONNECTED TO EXISTING STORMWATER SYSTEM ALONG LONDON CIRCUIT.

H 1:500
SCALE @ A1



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**SECTION 100 CANBERRA CITY
WORKS APPROVAL
STORMWATER MASTER PLAN**

MPG CONSTRUCTIONS

PRELIMINARY Drg No 305632CD100

Rev A

Stages	TEP	PCC	ADWF	PDWF	Portion Wet	Net Sewered Area (hectares)	GW (L/s)	C	I1,2	Factorsize	Factorcontainment	I	RDI	Design Flow
Stage 1	642.95	180	1.34	4.09	0.75	0.95	0.01	1.2	19.4	1.57	1.5	45.57	1.46	5.56
Stage 2	629.65	180	1.31	4.01	0.75	0.33	0.00	1.2	19.4	1.78	1.5	51.66	0.58	4.60
Stage 3	587.45	180	1.22	3.77	0.75	0.45	0.01	1.2	19.4	1.72	1.5	49.93	0.75	4.52
Stage 4	476.95	180	0.99	3.13	0.75	0.33	0.00	1.2	19.4	1.78	1.5	51.68	0.58	3.71

NOTES:

- ALL CONNECTIONS TO LIVE SEWER MAINS SHALL BE MADE BY ICON WATER AT THE CONTRACTORS EXPENSE. REFER TO SPECIFICATION.
- SEWER TIES SHALL BE CLASS SN8, SOLID WALLED OR APPROVED STRUCTURED WALL PVC WITH SOLVENT WELDED JOINTS CONSTRUCTED IN ACCORDANCE WITH SD-2005-D, SD-2006-D. REFER TO AS 1260. 2% MINIMUM GRADE.
- SEWER PIPES SHALL BE CLASS SN8, SOLID WALLED PVC WITH RUBBER RING JOINTS. REFER TO AS 1260. CURVED PVC SEWERS UP TO 225mm TO HAVE SOLVENT WELDED JOINTS, FOR RADIUS LESS THAN 250mm.
- SEWER MAIN AND SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ICON WATER SUPPLY AND SEWERAGE STANDARDS. REFER TO ICON WATER APPROVED PRODUCT LIST.
- ALL MANHOLE COVERS SHALL BE CLASS B UNLESS NOTED AS 'HD'. HD DESIGNATED COVERS SHALL BE CLASS D. REFER TO ICON WATER SUPPLY AND SEWERAGE STANDARDS. DRAWING SD-2204-C

S1 - STAGE 1 = 5.56 L/S
S2 - STAGE 2 = 4.60 L/S
S3 - STAGE 3 = 4.52 L/S
S4 - STAGE 4 = 3.71 L/S
S5 - STAGES 1,2,3 = 14.68 L/S

CONNECT TO EXISTING SEWER
RL 558.345

REFER TO DRAWING 305632CS201
FOR SEWER LONG SECTION

EXISTING SEWER LOCATION AND STATUS
DRY/WET TO BE CONFIRMED. RELOCATE
OUTSIDE OF BLOCK OR REMOVE FROM
BLOCK AND CAP IF NO LONGER REQUIRED.

LEGEND:

SEWER MAIN

SEWER MANHOLE

1:250@A1
SCALE
1500@A3

0 2.5 5 7.5 10 12.5
0 2.5 5 7.5 10 12.5



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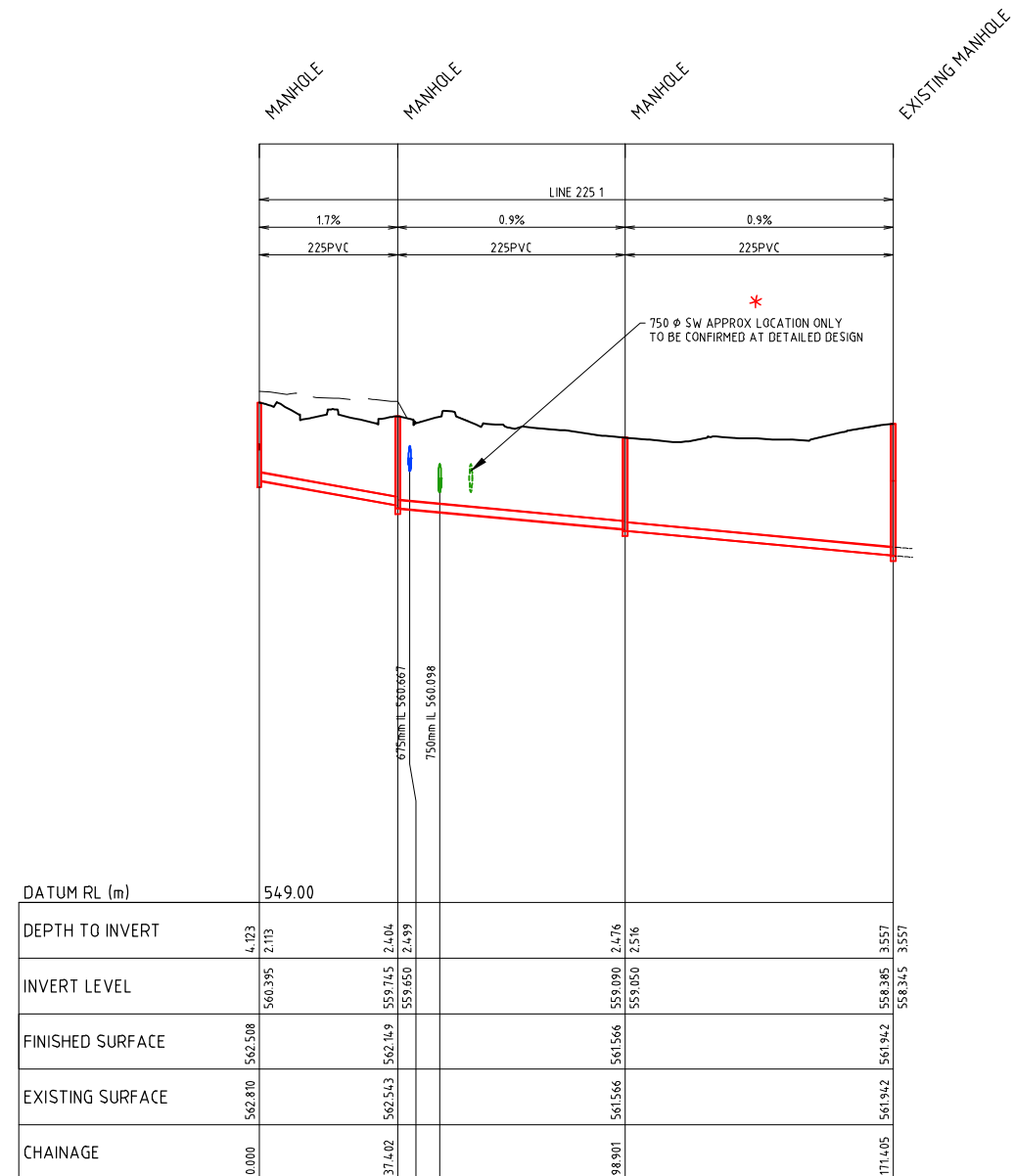
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24-09-18

SECTION 100 CANBERRA CITY
WORKS APPROVAL
SEWER MASTER PLAN

MPG CONSTRUCTIONS

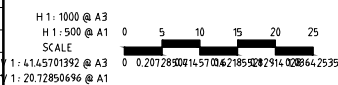
PRELIMINARY Drg No
305632CS200

Rev
A



* DOWNSTREAM AND UPSTREAM STORMWATER MANHOLES TO EXISTING 750Ø MAIN ALONG THE NORTHBOUND CARRIAGEWAY OF LONDON CIRCUIT ARE CURRENTLY NOT ACCESSABLE. ACT GOVERNMENT TO PROVIDE ACCESS TO THESE STRUCTURES TO DETERMINE "AS CONSTRUCTED" WORKS INFORMATION.

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Rev	Amendments	Approved	Date



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**SECTION 100 CANBERRA CITY
WORKS APPROVAL**
SEWER MASTER PLAN
LONG SECTION

MPG CONSTRUCTIONS

PRELIMINARY Drg No
305632CS201

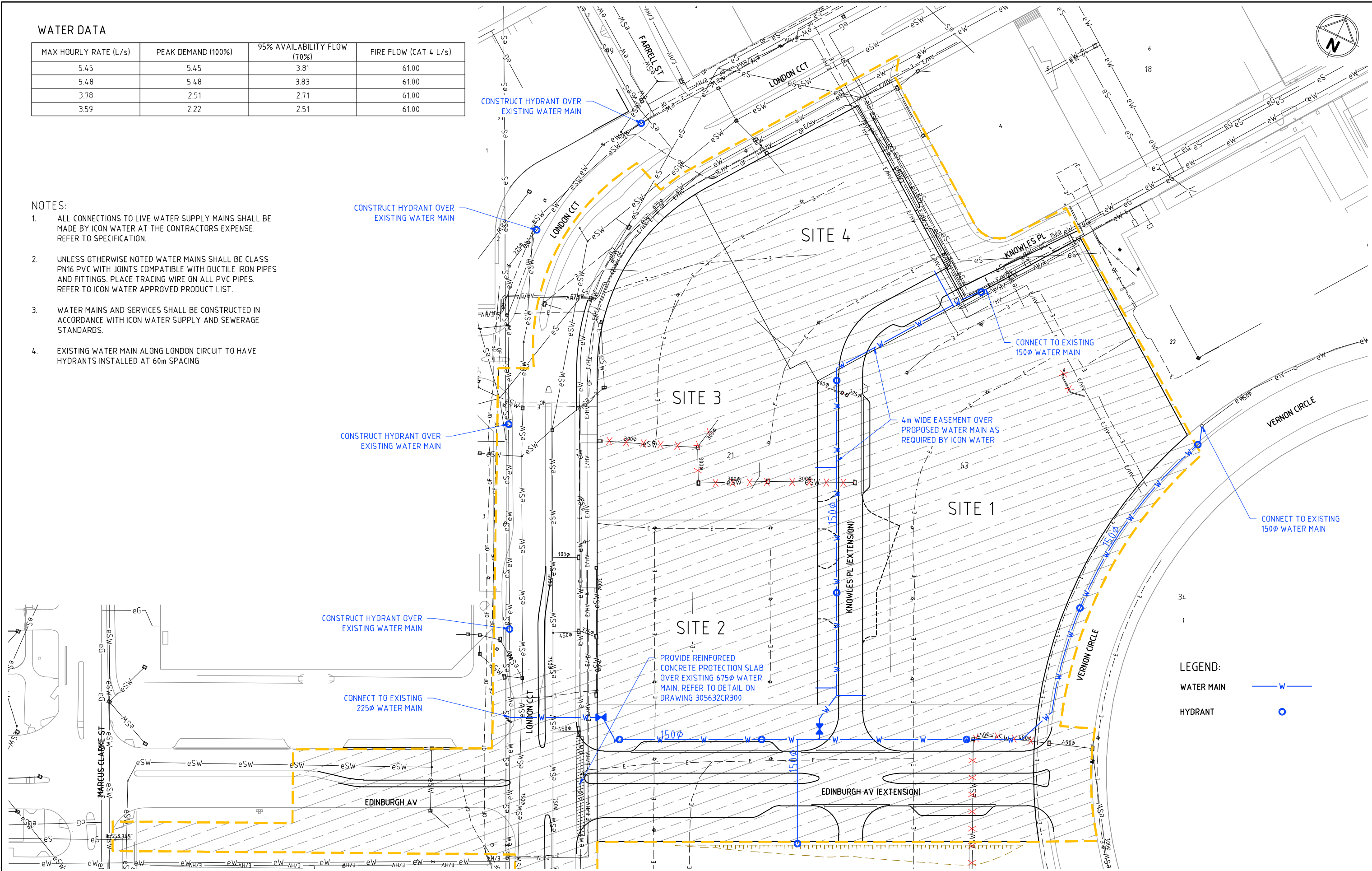
A

WATER DATA

MAX HOURLY RATE (L/s)	PEAK DEMAND (100%)	95% AVAILABILITY FLOW (70%)	FIRE FLOW (CAT 4 L/s)
5.45	5.45	3.81	61.00
5.48	5.48	3.83	61.00
3.78	2.51	2.71	61.00
3.59	2.22	2.51	61.00

NOTES:

- ALL CONNECTIONS TO LIVE WATER SUPPLY MAINS SHALL BE MADE BY ICON WATER AT THE CONTRACTORS EXPENSE. REFER TO SPECIFICATION.
- UNLESS OTHERWISE NOTED WATER MAINS SHALL BE CLASS PN16 PVC WITH JOINTS COMPATIBLE WITH DUCTILE IRON PIPES AND FITTINGS. PLACE TRACING WIRE ON ALL PVC PIPES. REFER TO ICON WATER APPROVED PRODUCT LIST.
- WATER MAINS AND SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ICON WATER SUPPLY AND SEWERAGE STANDARDS.
- EXISTING WATER MAIN ALONG LONDON CIRCUIT TO HAVE HYDRANTS INSTALLED AT 60m SPACING



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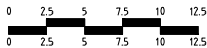
WATER MAIN

HYDRANT

— W —

○

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SECTION 100 CANBERRA CITY
WORKS APPROVAL
WATER MASTER PLAN

MPG CONSTRUCTIONS

PRELIMINARY

Drg No
305632CW200

Rev

A

file name: 305632CW200 W MASTER.dwg, layout name: CM200, plotted by: Suzie Gilbert
file location: G:\30\305632\CM200\ACAD\plot date: 24/09/2018 11:41 AM Sheet 1 of 22 Sheets

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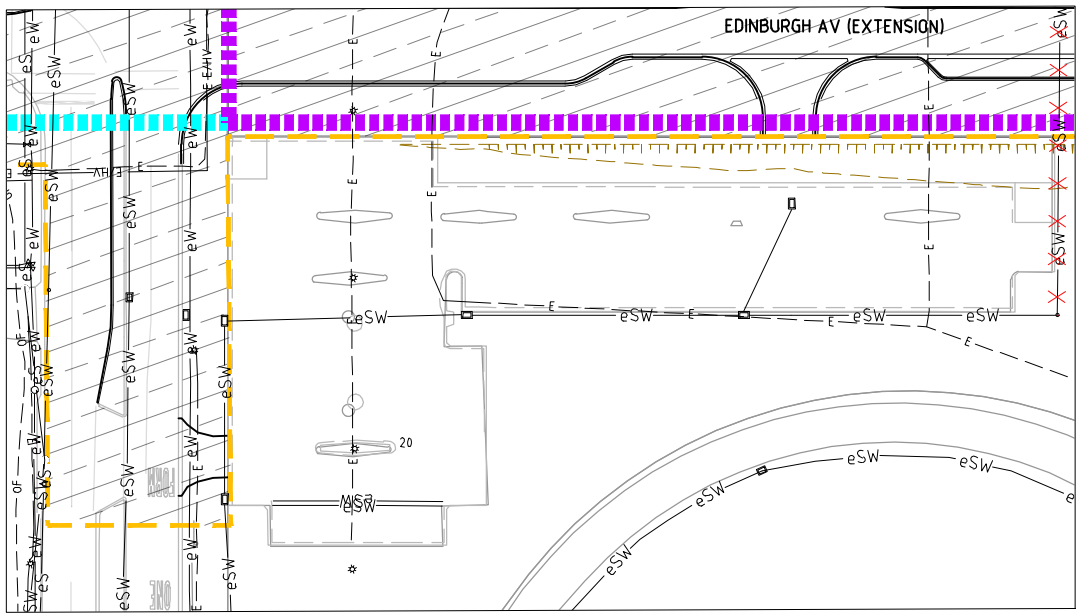
NCA WORKS APPROVAL AREA

EXTENT OF WORKS

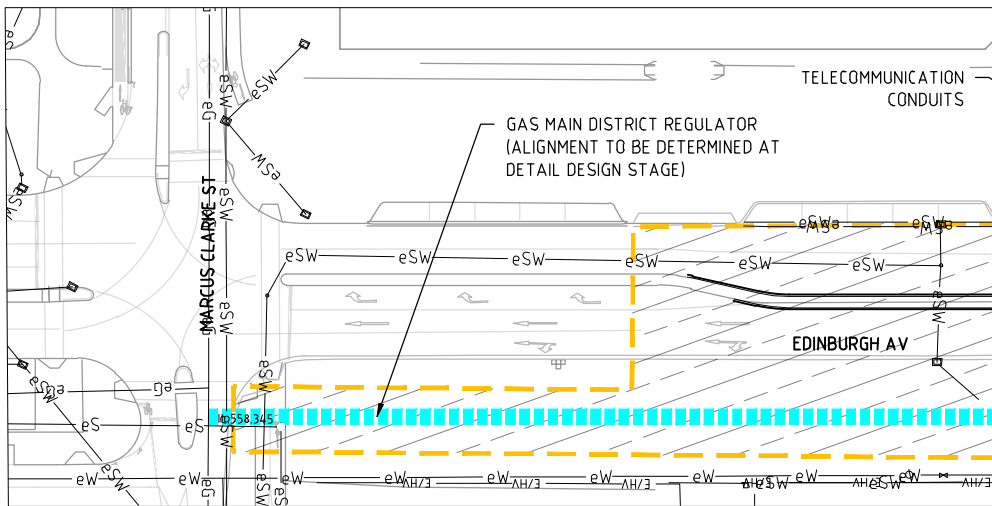
3 WAY ELECTRICITY, GAS AND TELECOMMUNICATION

1 WAY TELECOMMUNICATION

1 WAY GAS



INSET



TELECOMMUNICATION CONDUITS

GAS MAIN DISTRICT REGULATOR
(ALIGNMENT TO BE DETERMINED AT
DETAIL DESIGN STAGE)

EDINBURGH AV

REFER TO INSET



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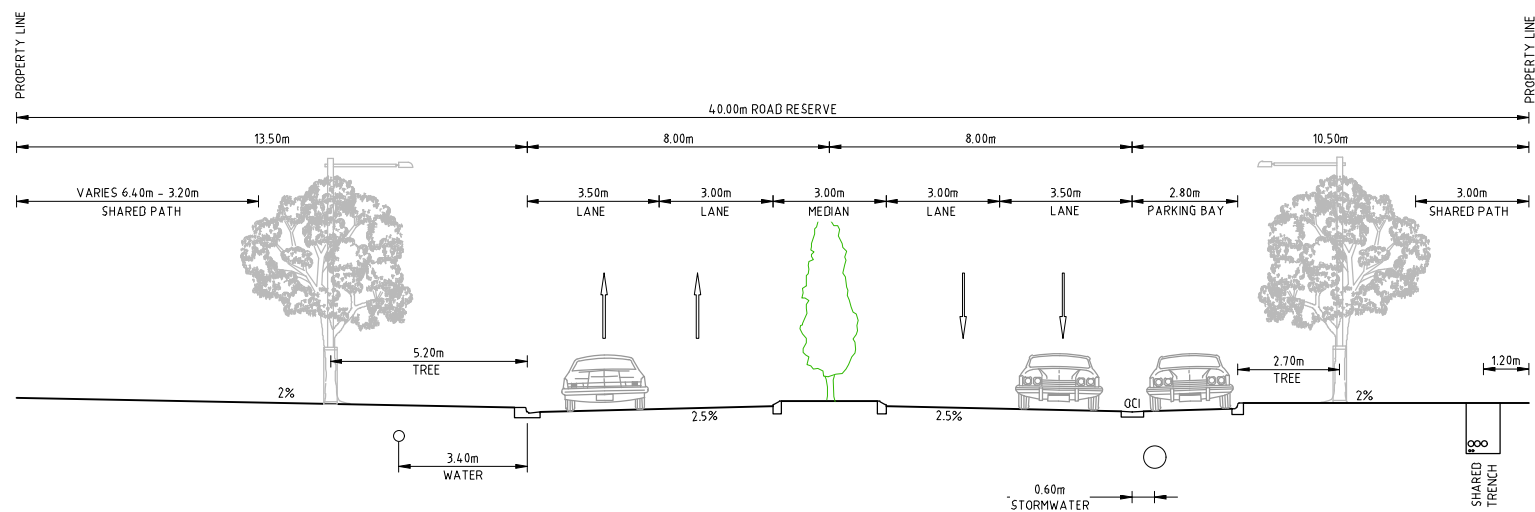
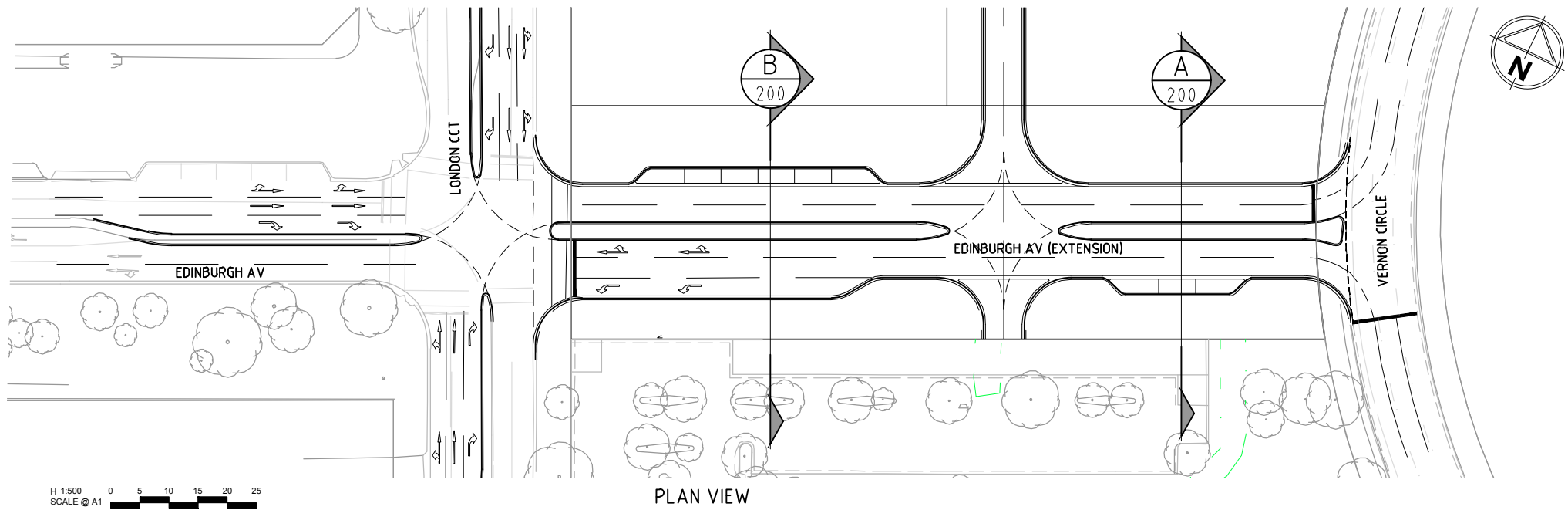
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24-09-18

SECTION 100 CANBERRA CITY
WORKS APPROVAL
SHARED TRENCH

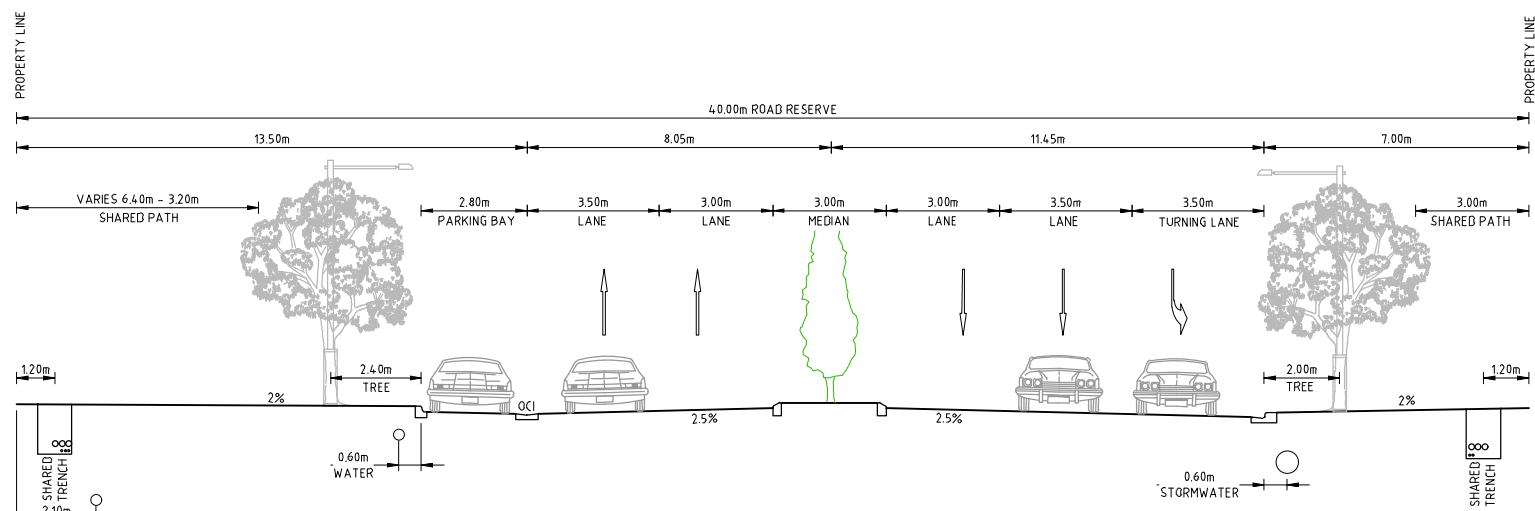
MPG CONSTRUCTIONS

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305632CF300

Rev
A



EDINBURGH AVENUE EXTENSION-A
(DUAL 6.5m CARRIAGEWAY)

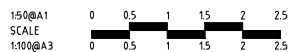


EDINBURGH AVENUE EXTENSION - B
(DUAL 6.5m CARRIAGEWAY WITH PARKING AND TURNING LANE)

NOTE:
KERB & GUTTER AND K4A KERB ALONG EDINBURGH AVENUE (EXTENSION) TO HAVE A TOP WIDTH OF 300mm IN ACCORDANCE WITH DETAIL 1.4.6 IN PART C1 OF CANBERRA CENTRAL DESIGN MANUAL.

file name: 305632CR200.TYP.dwg, layout name: CR200, plotted by: Spire Gilbert, file location: G:\305632\CR200\305632.dwg, ACAD plot date: 24/09/2018 11:41 AM, Sheet 9 of 22 Sheets

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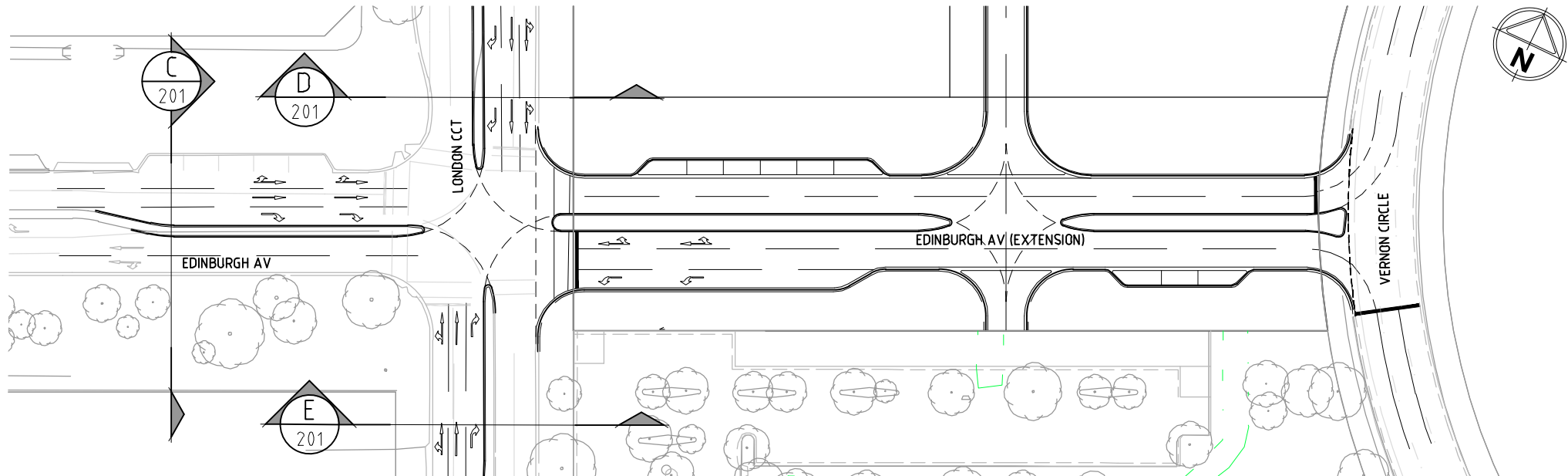
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BSC
Date
24-09-18

**SECTION 100 CANBERRA CITY
WORKS APPROVAL
TYPICAL CROSS SECTIONS
EDINBURGH AVENUE SHEET 1**

MPG CONSTRUCTIONS

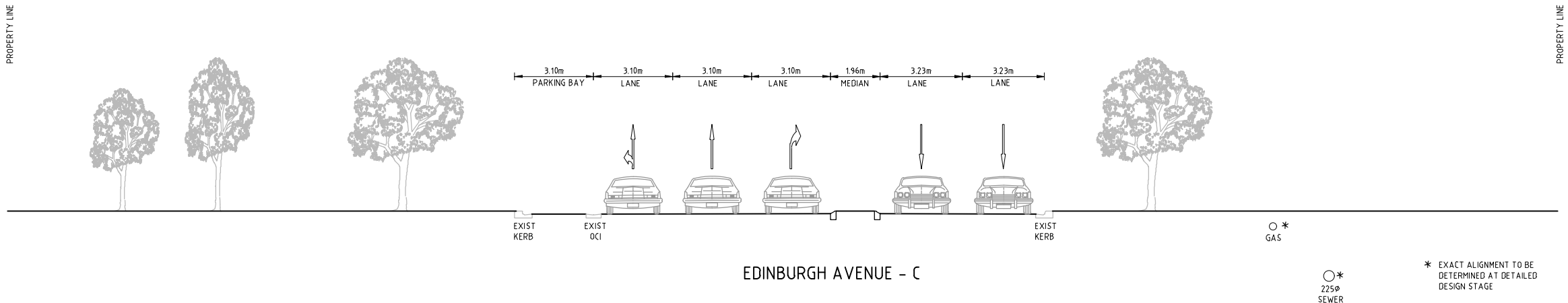
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Rev **A**

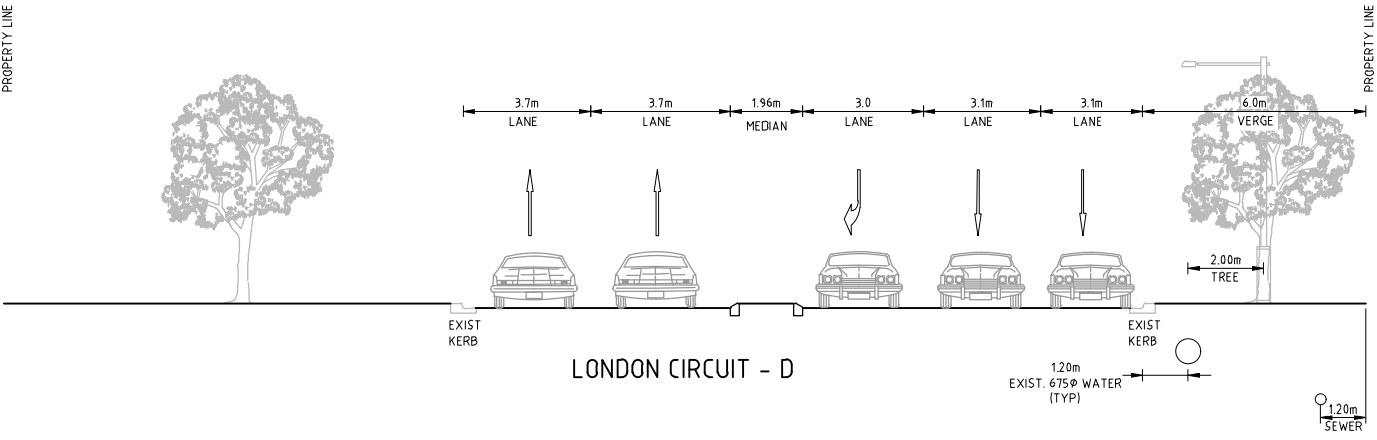


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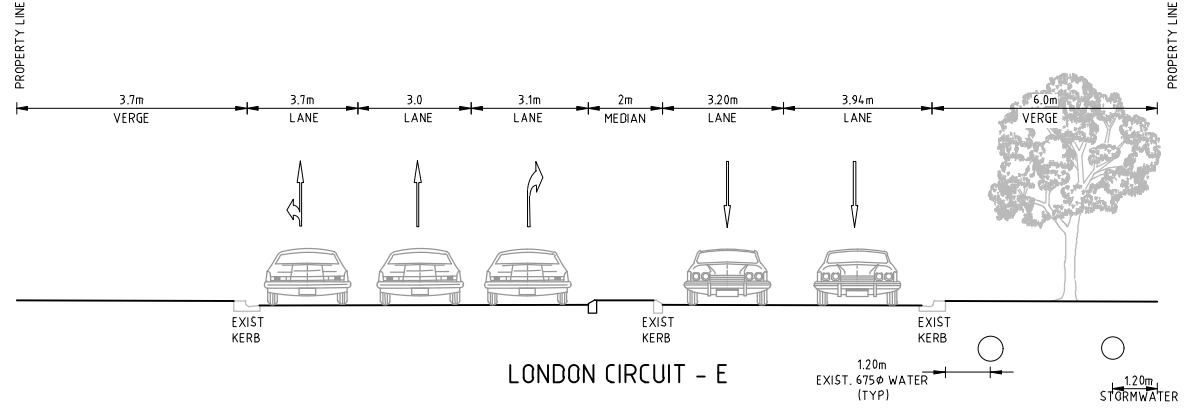
PLAN VIEW



EDINBURGH AVENUE - C



LONDON CIRCUIT - D



LONDON CIRCUIT - E

file name: 305632CR200.TYP.dwg, layout name: CR201, plotted by: Spiire Gilbert
file location: G:\30\305632\CR201\ACAD\plot date: 24/09/2018 11:41 AM, Sheet: 10 of 22 Sheets

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1:100@A3

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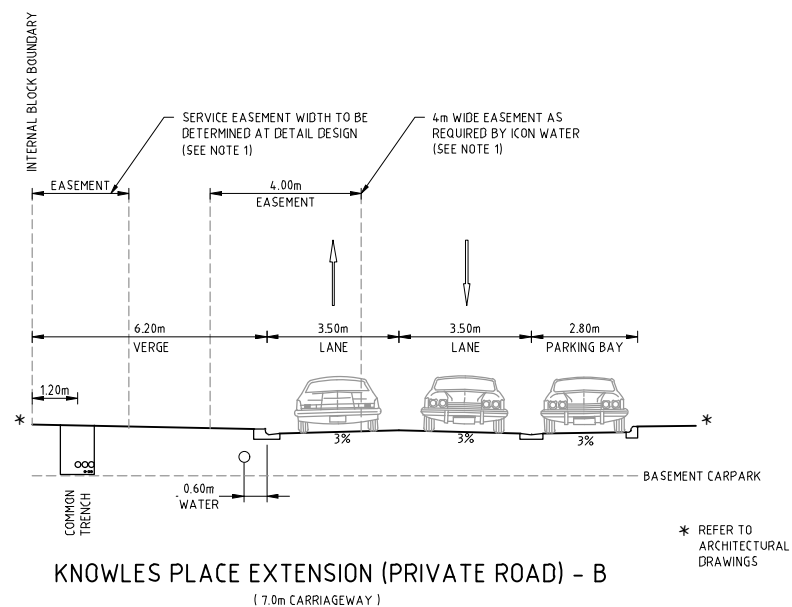
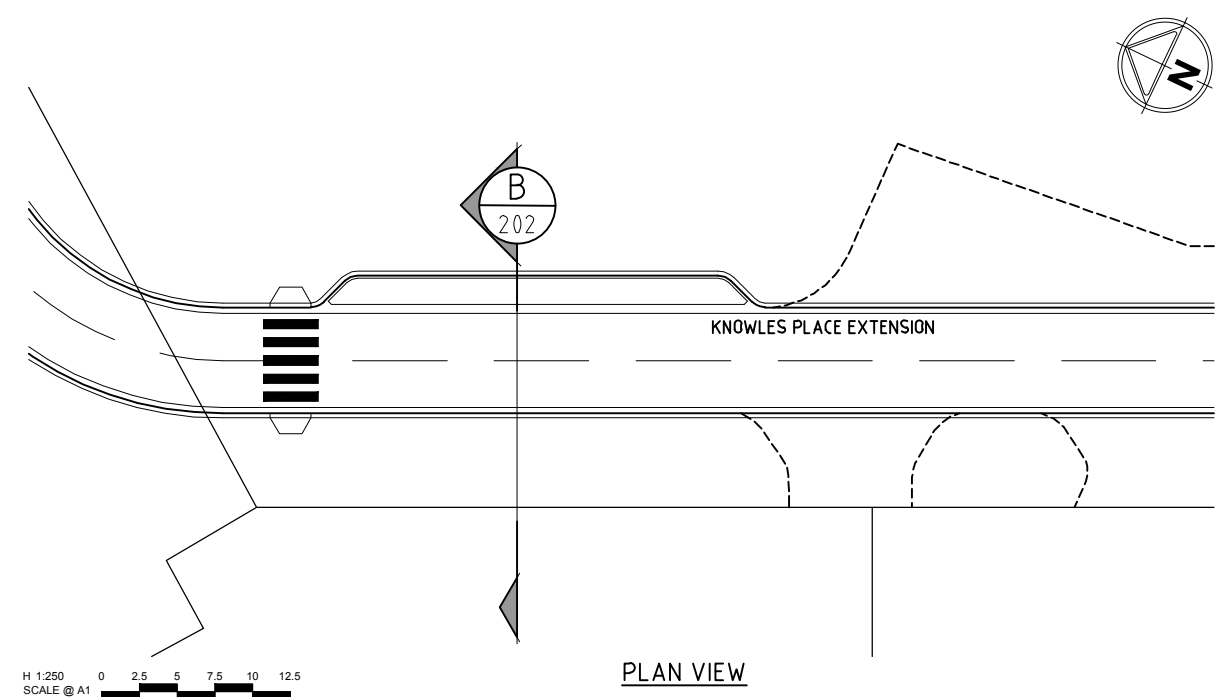
**SECTION 100 CANBERRA CITY
WORKS APPROVAL
TYPICAL CROSS SECTIONS
EDINBURGH AVENUE SHEET 2**

MPG CONSTRUCTIONS

PRELIMINARY

Drg No
305632CR201

Rev
A



File name 305632\CR200 TYP.dwg layout name CR202 plotted by Suzie Gilbert
File location G:\305632\Civil\ACAD plot date 24/09/2018 11:42 AM Sheet 11 of 22 Sheets

A	WORKS APPROVAL	MFB	24-09-18
Rev	Amendments	Approved	Date



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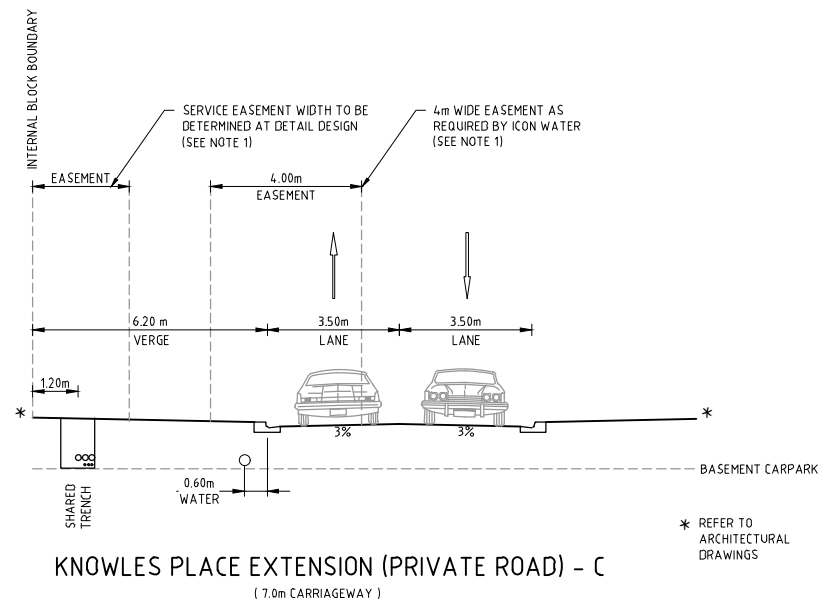
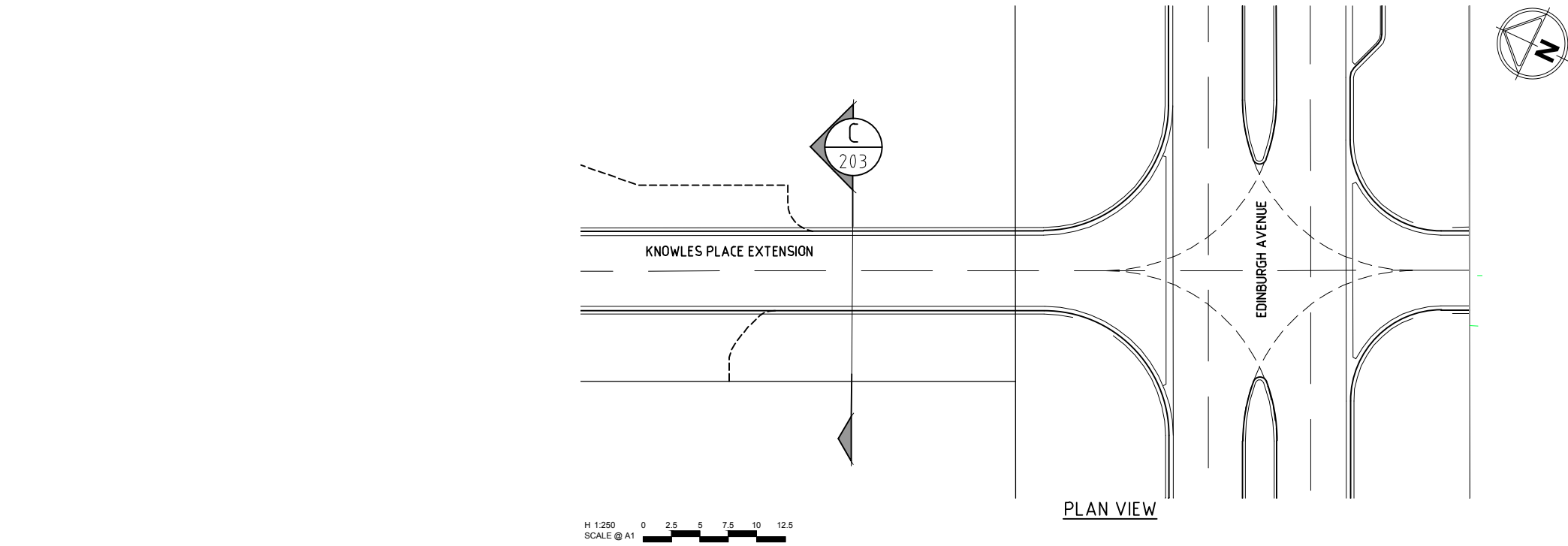
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BSC
Date
24-09-18

PRELIMINARY Drg No
305632CR202

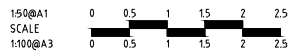
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file name: 305632CR200.TYP.dwg, layout name: CP203, plotted by: Spiire Gilbert,
file location: G:\30\305632\CP203\ACAD\plot date: 24/09/2018 11:42 AM, Sheet: 12 of 22 Sheets



(NOTE 1: HORIZONTAL AND VERTICAL LOCATION TO BE DETERMINED AT DETAIL DESIGN.)

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**SECTION 100 CANBERRA CITY
WORKS APPROVAL
TYPICAL CROSS SECTIONS
KNOWLES PLACE SHEET 2**

MPG CONSTRUCTIONS

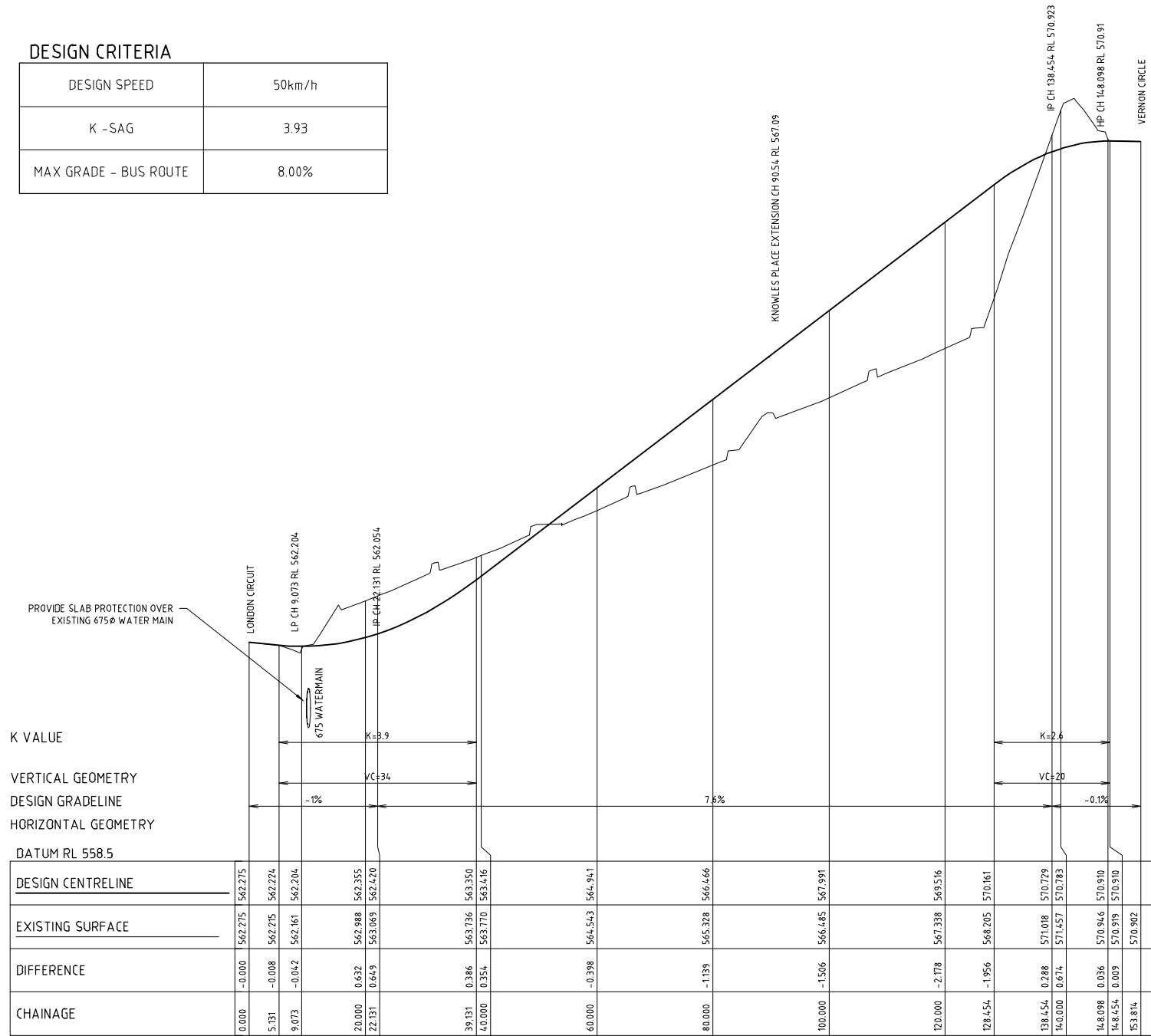
PRELIMINARY Drg No
305632CR203

Rev
A

file name: 305632CR3001 LS.dwg, layout name: CR300, plotted by: Suzie Gilbert
file location: G:\30\305632\CR300\ACAD\plot date 24/09/2018 11:42 AM Sheet 13 of 22 Sheets

DESIGN CRITERIA

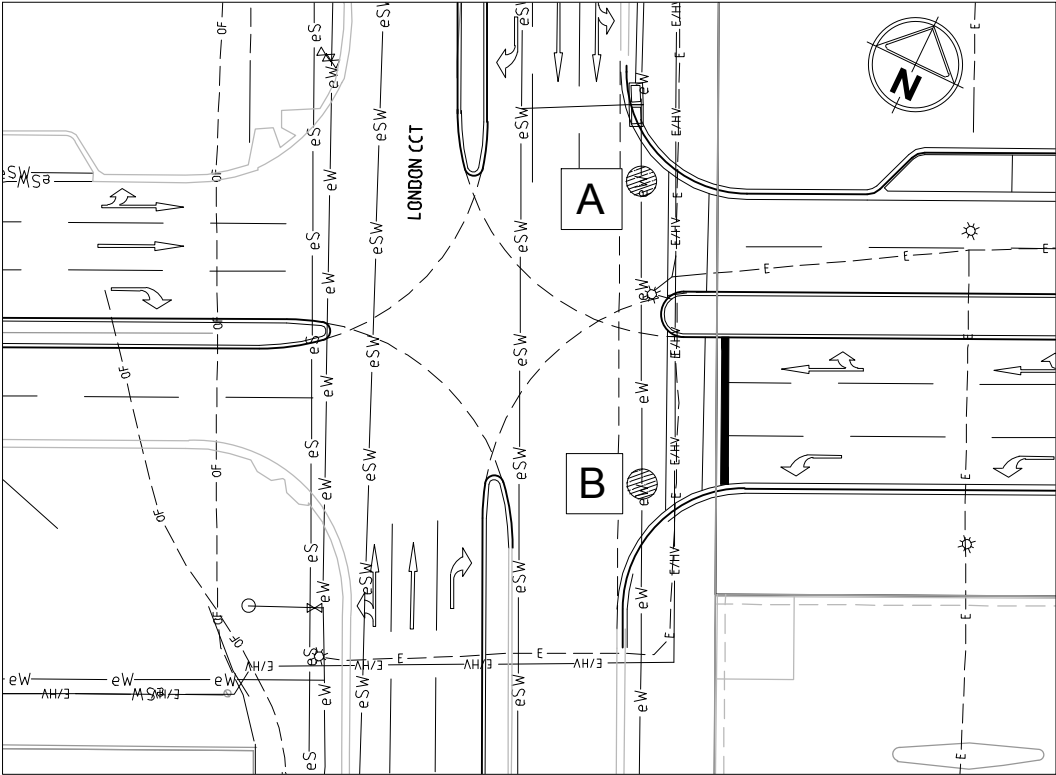
DESIGN SPEED	50km/h
K -SAG	3.93
MAX GRADE - BUS ROUTE	8.00%



EDINBURGH AVE

POTHOLING DATA			
LOCATION	OBVERT LEVEL	DESIGN LEVEL	COVER
A	561.520 *	562.210	0.690
B	561.400 *	562.050	0.650

(* LEVELS BY OTHERS)

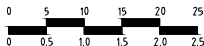


SLAB PROTECTION DETAIL

(REINFORCEMENT DETAILS TO BE PROVIDED AT DETAIL DESIGN STAGE)

Rev	Amendments	Approved	Date
A	WORKS APPROVAL	MFB	24-09-18

H 1:1000 @ A3
H 1:500 @ A1
SCALE
V 1:100 @ A3
V 1:50 @ A1



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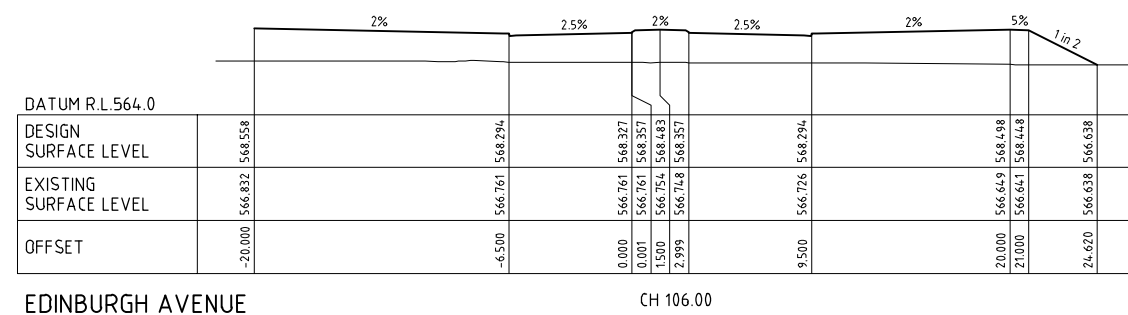
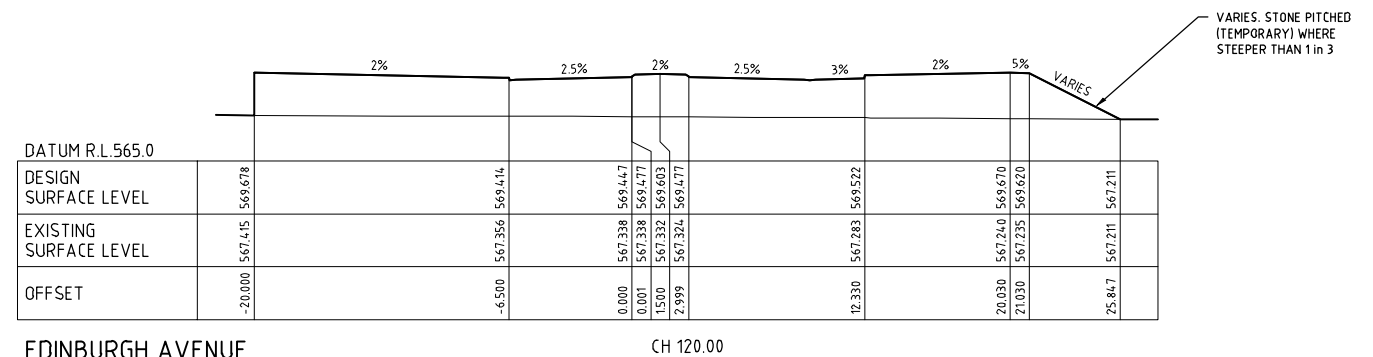
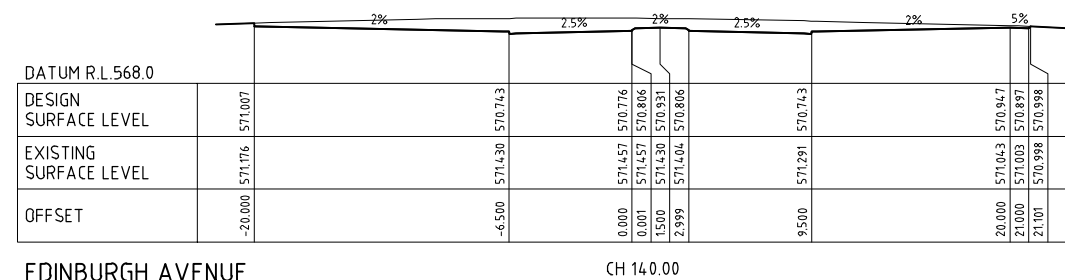
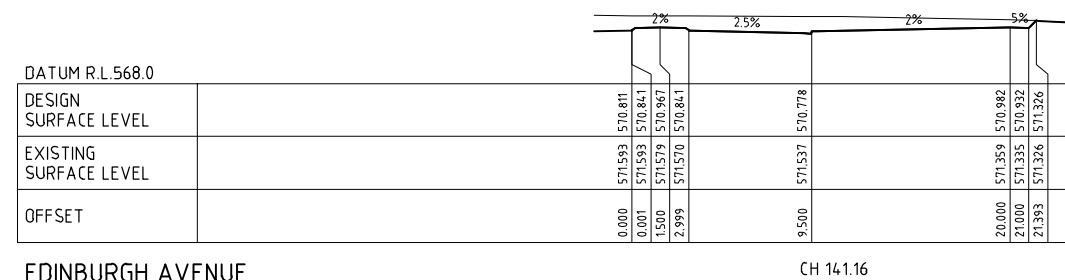
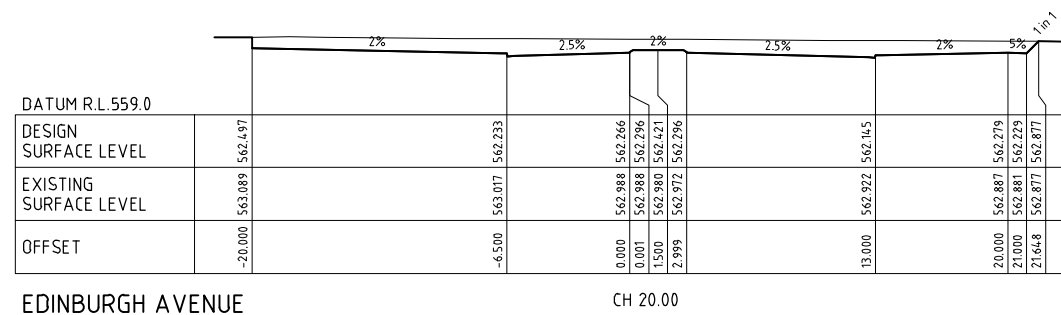
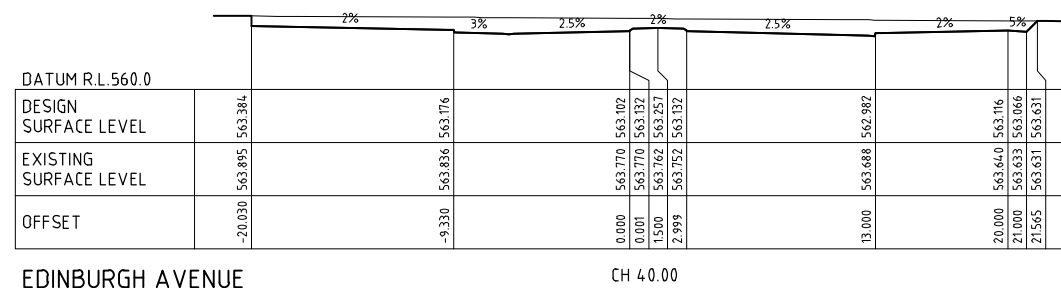
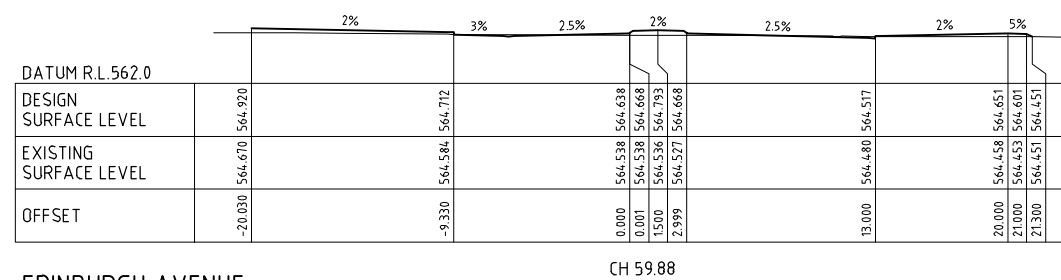
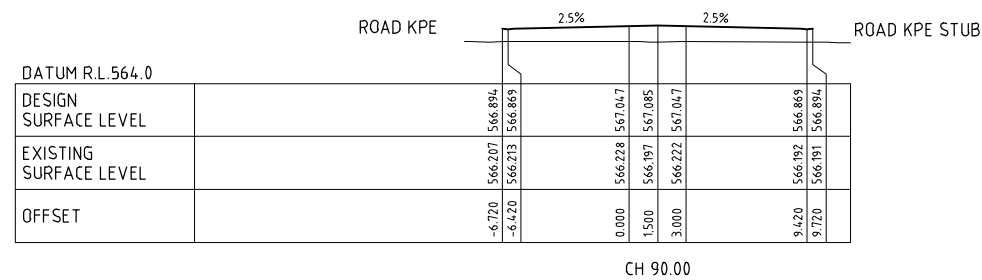
Checked
BSC
Date
24-09-18

**SECTION 100 CANBERRA CITY
WORKS APPROVAL
LONGITUDINAL AND CROSS SECTIONS
EDINBURGH AVENUE LONG SECTIONS**

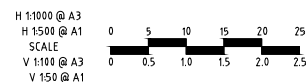
MPG CONSTRUCTIONS

PRELIMINARY Drg No **305632CR300**

Rev
A



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24-09-18

**SECTION 100 CANBERRA CITY
WORKS APPROVAL**
LONGITUDINAL AND CROSS SECTIONS
EDINBURGH AVENUE CROSS SECTIONS

MPG CONSTRUCTIONS

PRELIMINARY Drg No
305632CR301

LEGEND:

NCA WORKS APPROVAL AREA

VERGE PAVING

ROAD PAVEMENT TYPE 1

ROAD PAVEMENT TYPE 2

PRIVATE ROAD

MEDIAN CONCRETE

MEDIAN PAVING

CARPARK PAVING

- 45 AC14HD
- PRIME
- 150 DGB20
- 250DGB20

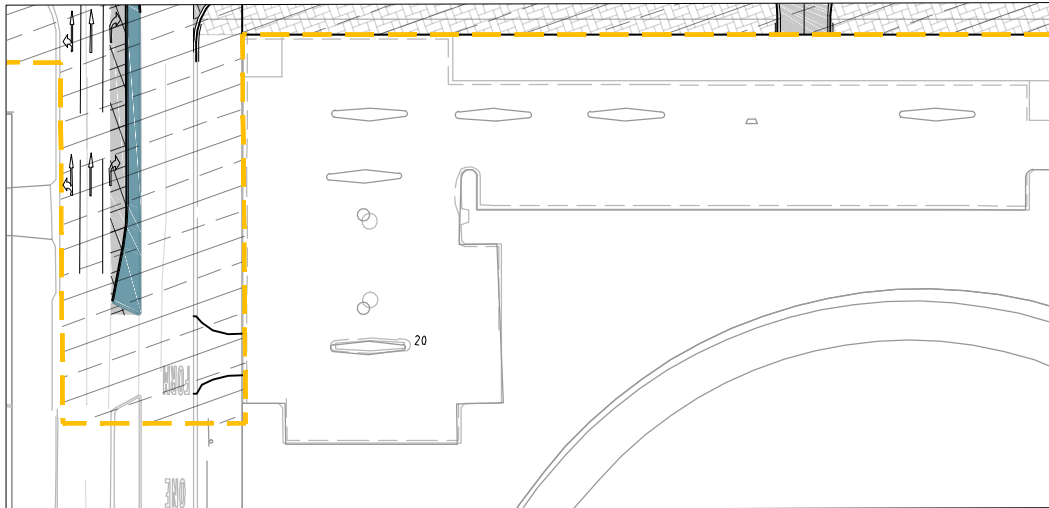
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ROAD PAVEMENT TYPE 1

- 45 AC14HD
- 190 AC20HD
- PRIME
- 150DGB20

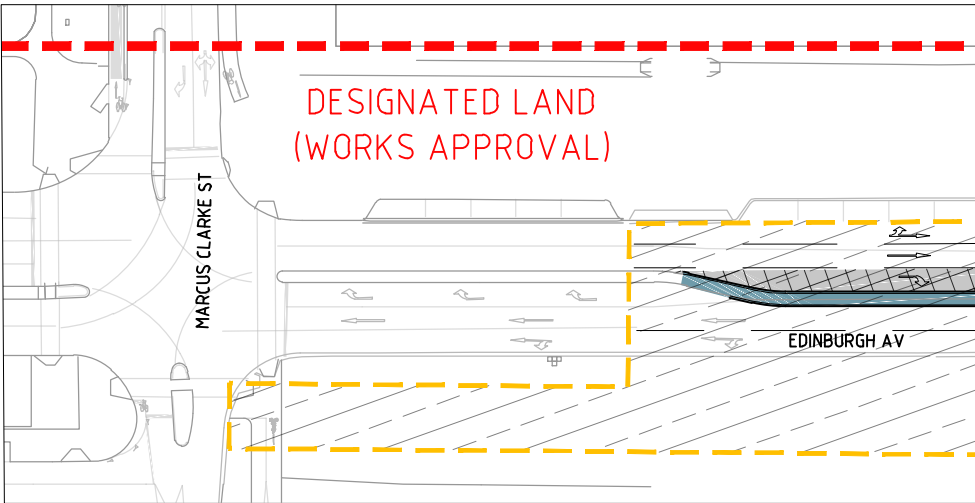
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ROAD PAVEMENT TYPE 2

NOTES

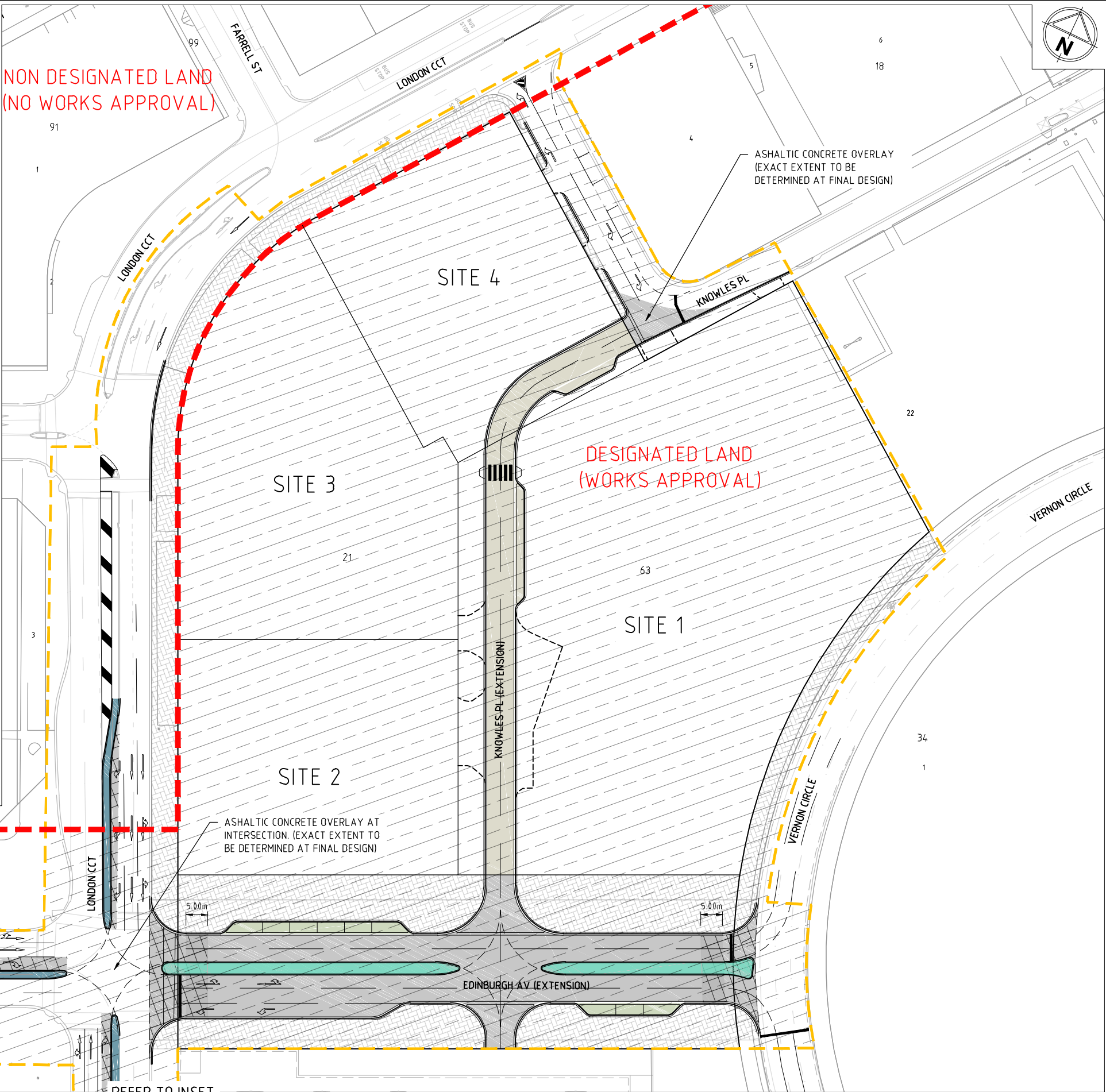
1. VERGE PAVING : REFER TO DRAWING 305632LD400 AND 305632LD401
2. ROAD PAVEMENT 1 : THIN FLEXIBLE ASPHALTIC CONCRETE PAVEMENT
3. ROAD PAVEMENT TYPE 2 : DEEP LIFT ASPHALTIC CONCRETE PAVEMENT
4. PRIVATE ROAD : THIN FLEXIBLE ASPHALTIC CONCRETE PAVEMENT
5. MEDIAN CONCRETE : CONCRETE
6. MEDIAN PAVING : REFER TO DRAWING 305632LD400
7. CARPARK PAVING : INTERLOCKING PAVERS



INSET



DESIGNATED LAND
(WORKS APPROVAL)



NON DESIGNATED LAND
(NO WORKS APPROVAL)

DESIGNATED LAND
(WORKS APPROVAL)

REFER TO INSET

file name: 305632LD400 PAVE.dwg, layout name: C0400, plotted by: Suzie Gilbert
file location: G:\30\305632\Civil\A\CAD\plot date: 24/09/2018 11:42 AM Sheet 16 of 22 Sheets

Rev	Amendments	Approved	Date
A	WORKS APPROVAL	MFB	24-09-18

1:250@A1
SCALE
1:500@A3



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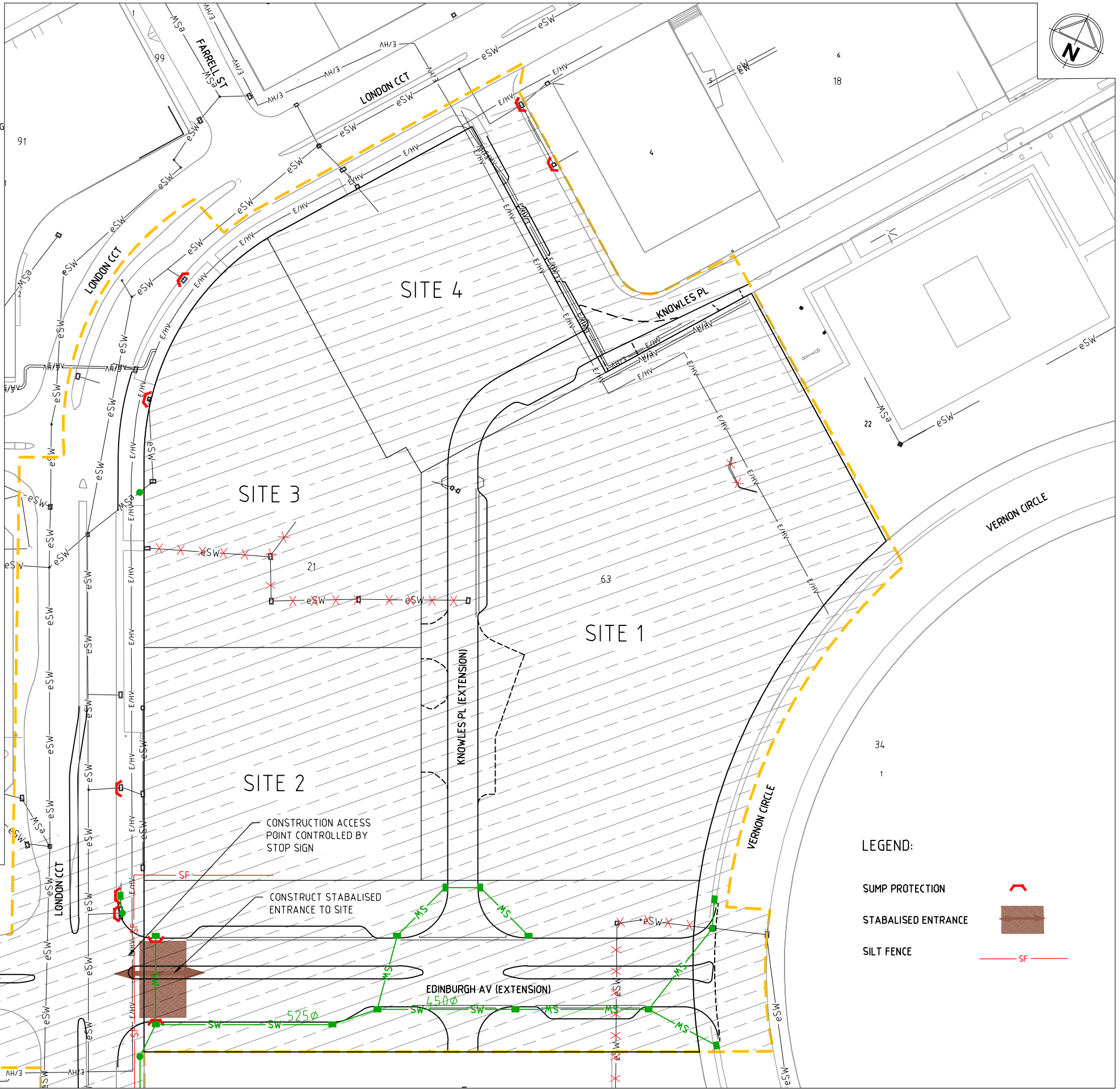
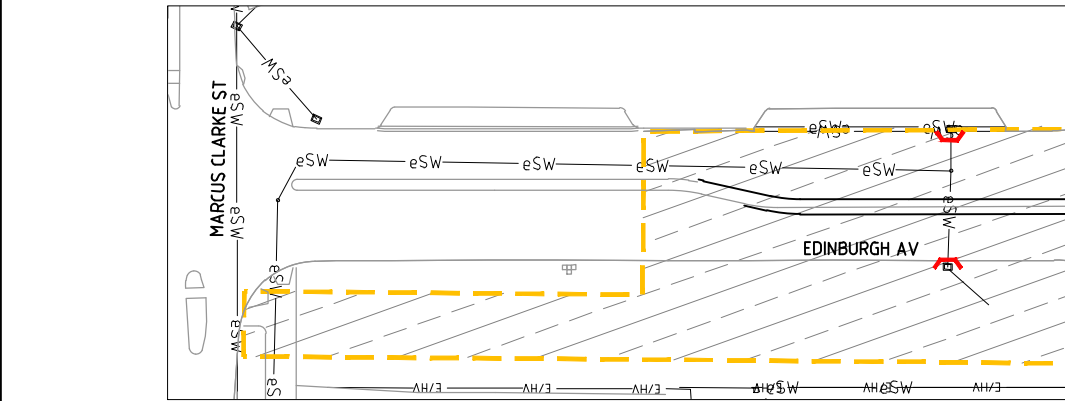
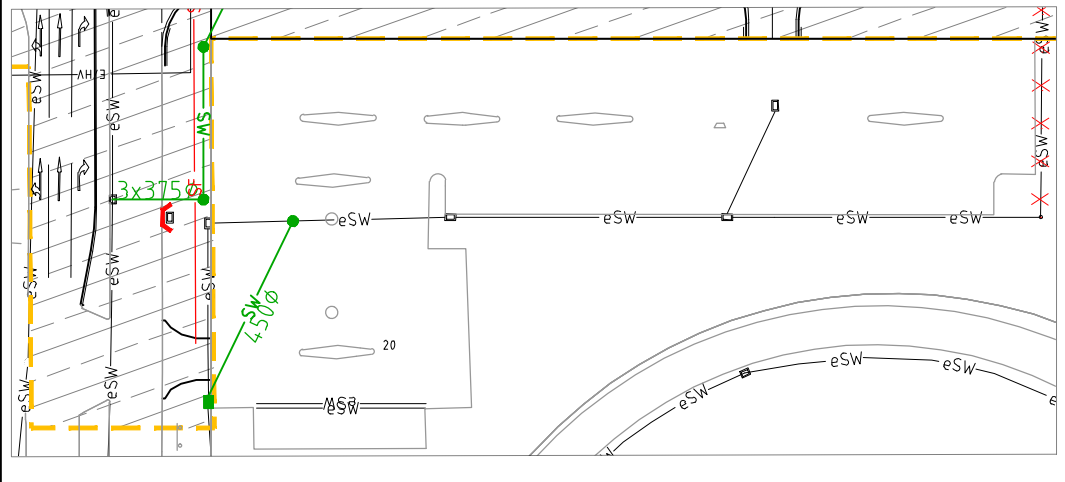
SECTION 100 CANBERRA CITY
WORKS APPROVAL
PAVEMENT PLAN

MPG CONSTRUCTIONS

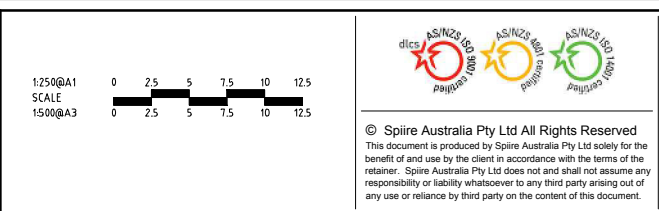
PRELIMINARY Drg No
305632CR400

Rev
A

1. REFER TO CLAUSES 2.03 OF THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS.
2. THIS DRAWING TYPIFIES ONLY THE SEDIMENT AND EROSION CONTROL PRINCIPALS REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES TO COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENT PROTECTION AUTHORITY ACT 1997 AND THEIR "ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT". EPA 2011.
3. VARIATIONS TO BE APPROVED CONCEPTS AND PROPOSALS ARE TO BE ENDORSED BY ENVIRONMENTAL PROTECTION AUTHORITY PRIOR TO IMPLEMENTATION.
4. THE CONTRACTOR MUST ENTER INTO AN ENVIRONMENTAL PROTECTION AGREEMENT WITH THE ENVIRONMENT PROTECTION AUTHORITY BY CONTACTING ENVIRONMENT ACT ON 132281 PRIOR TO COMMENCEMENT OF WORK.
5. UPON THE COMPLETION OF ROAD SEALING SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT, THE ASSOCIATED GENERAL INLET PROTECTION SHALL BE REMOVED.
6. STOCKPILES TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCKPILES TO MINIMISE EROSION.
7. STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES, AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP.
8. WHERE STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE KERBSIDE FILTER ROLL TO SUMP INLET.
9. CONTRACTOR IS TO ESTABLISH A MAINTENANCE PROGRAM FOR SEDIMENT AND EROSION CONTROL DEVICES TO ENSURE INSPECTION AFTER SIGNIFICANT RAINFALL AND THAT ANY REPAIRS NECESSARY ARE QUICKLY ATTENDED TO. ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
10. REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
11. NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCKS WITHOUT TCCS APPROVAL.
12. NO SITE SHEDS, STORAGE SHEDS, SITE AMENITIES TO BE ERECTED OUTSIDE OF BLOCKS WITHOUT TCCS APPROVAL.
13. PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS. KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON WEEKLY BASIS AT MINIMUM TRAPPED SEDIMENT AROUND SUMPS ALSO TO BE REMOVED. CLEANING TO BE TAKEN OUT IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
14. ALL BUILDING MATERIAL AND WASTE STOCKPILES SHALL BE LOCATED WITHIN A WASTE ENCLOSURE OR WASTE CONTAINMENT AREA ON THE SITE.
15. A WATER CART OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE IN DRY AND WINDY CONDITIONS TO MAINTAIN DUST SUPPRESSION.
16. WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES.
17. ALL BUILDING MATERIAL AND WASTE STOCKPILES MUST BE LOCATED ON THE SITE.
18. THE WASTE ENCLOSURE IS TO BE USED AND IS TO BE CAPABLE OF HOLDING ALL WASTES ON THE SITE UNTIL THEY CAN BE DISPOSED OF IN AN APPROPRIATE MANNER.
19. ANY NOISE ACTIVITIES, WHICH INCLUDE MATERIAL DELIVERIES AND WORK SITE PREPARATION IS ONLY PERMITTED BETWEEN THE FOLLOWING HOURS: 7.00AM AND 6.00 PM MONDAY TO SATURDAY (EXCLUDING PUBLIC HOLIDAYS), AT ALL OTHER TIMES NOISE EMISSION MUST NOT EXCEED THE ZONE NOISE STANDARD.
20. IF SOIL IS TO BE REMOVED OR IMPORTED ON SITE, THE DETAILS OF THE ORIGIN OF THE SOIL IMPORTED OR THE LOCATION WHERE THE SOIL IS TO BE EXPORTED ARE TO BE PROVIDED TO EPA A MINIMUM OF 2 WEEKS IN ADVANCE OF THE WORK.



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**SECTION 100 CANBERRA CITY
WORKS APPROVAL**
ENVIRONMENTAL MANAGEMENT
CONCEPT PLAN

MPG CONSTRUCTIONS

PRELIMINARY	Drg No 305632CE200	Rev A
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LEGEND:

NCA WORKS APPROVAL AREA

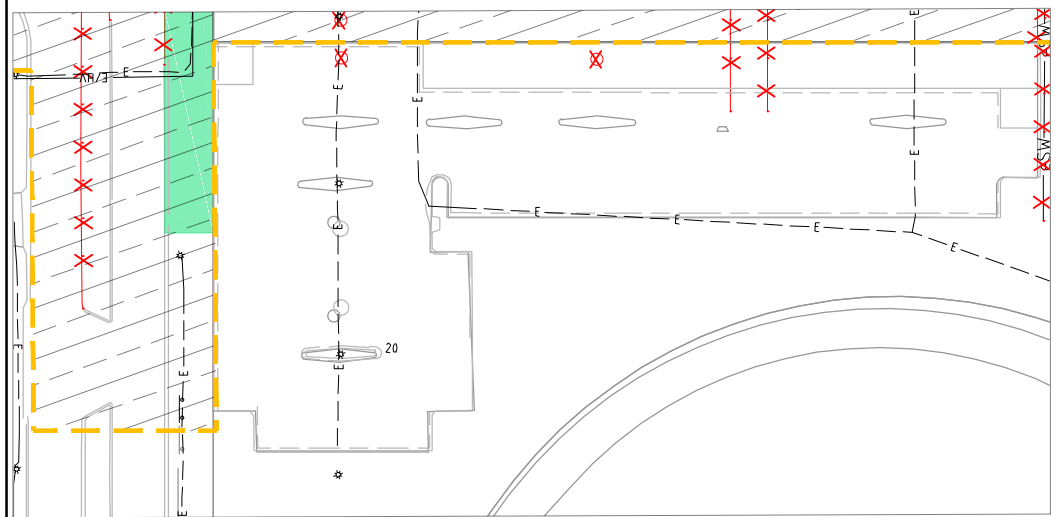
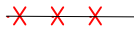
REMOVE EXISTING PATH AND VEGETATION

REMOVE EXISTING KERB

REMOVE EXISTING STREETLIGHT

REMOVE EXISTING BARRIERS

(REFER TO DRAWING 305632LD100 FOR TREE REMOVAL)



INSET

DESIGNATED LAND
(WORKS APPROVAL)

NON DESIGNATED LAND
(NO WORKS APPROVAL)

DESIGNATED LAND
(WORKS APPROVAL)

SITE 3

SITE 2

SITE 4

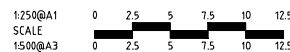
SITE 1

REFER TO INSET



file name: 305632CF250.DWG, layout name: CF250, plotted by: Spiire Gilbert
file location: G:\305632\CF250\305632.dwg, plot date: 24/09/2018 11:42 AM, Sheet 18 of 22 Sheets

Rev	Description	Approved	Date
A	WORKS APPROVAL	MFB	24-09-18
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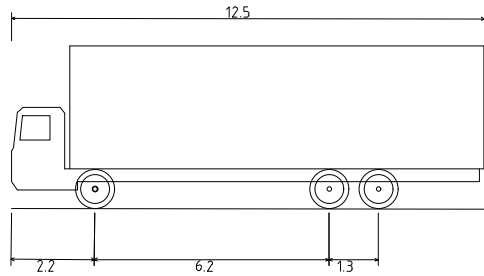
**SECTION 100 CANBERRA CITY
WORKS APPROVAL
DEMOLITION PLAN**

MPG CONSTRUCTIONS

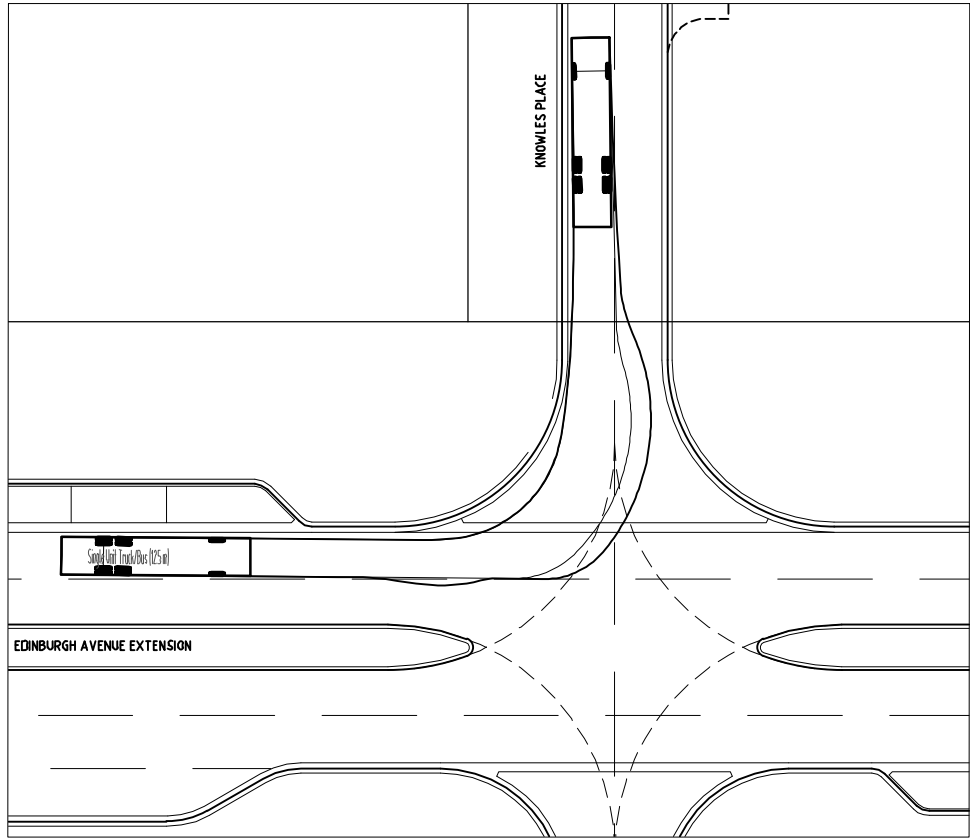
PRELIMINARY Drg No
305632CF250

Rev
A

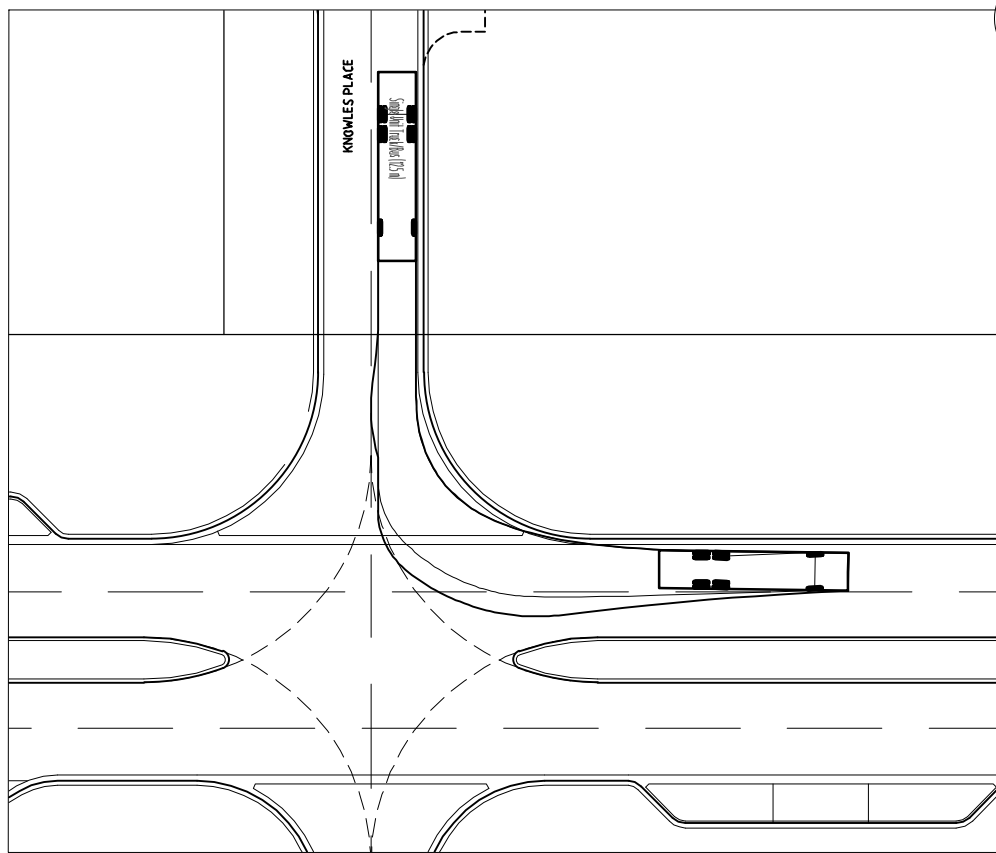
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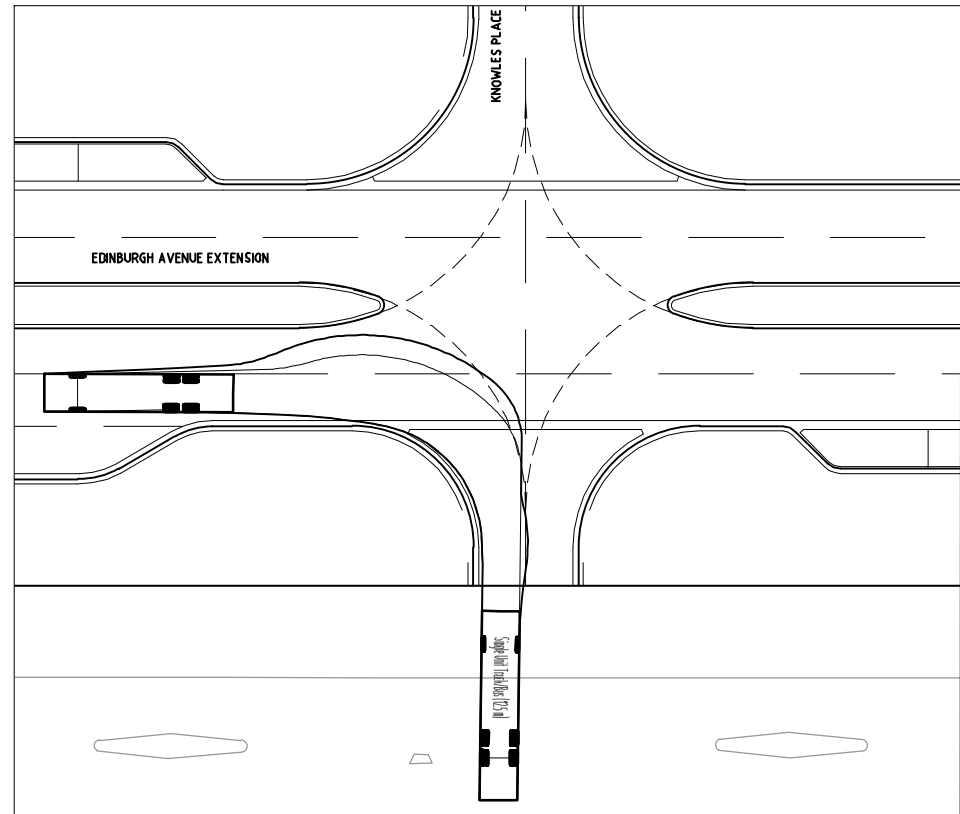
Single Unit Truck/Bus (12.5 m)
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.490m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



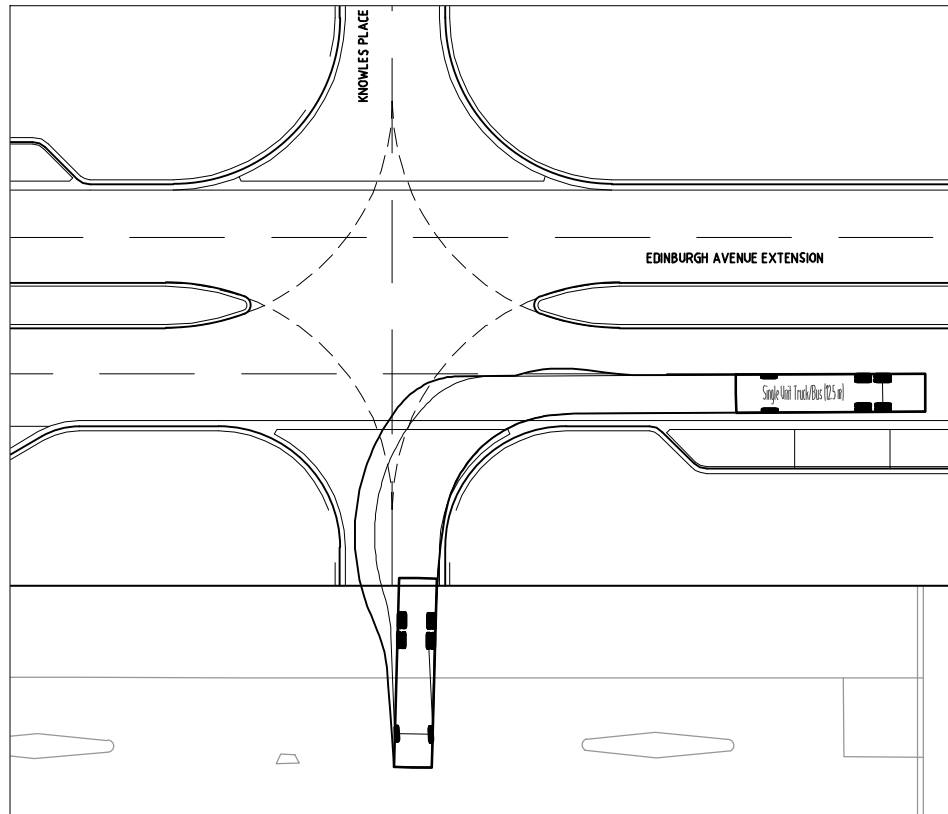
LEFT TURN FROM EDINBURGH AVENUE EXTENSION TO KNOWLES PLACE



LEFT TURN FROM KNOWLES PLACE TO EDINBURGH AVENUE EXTENSION



LEFT TURN FROM BLOCK 20 TO EDINBURGH AVENUE EXTENSION



LEFT TURN FROM EDINBURGH AVENUE EXTENSION TO BLOCK 20



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Rev	Amendments		Approved	Date

1:250@A1
SCALE
1500@A3



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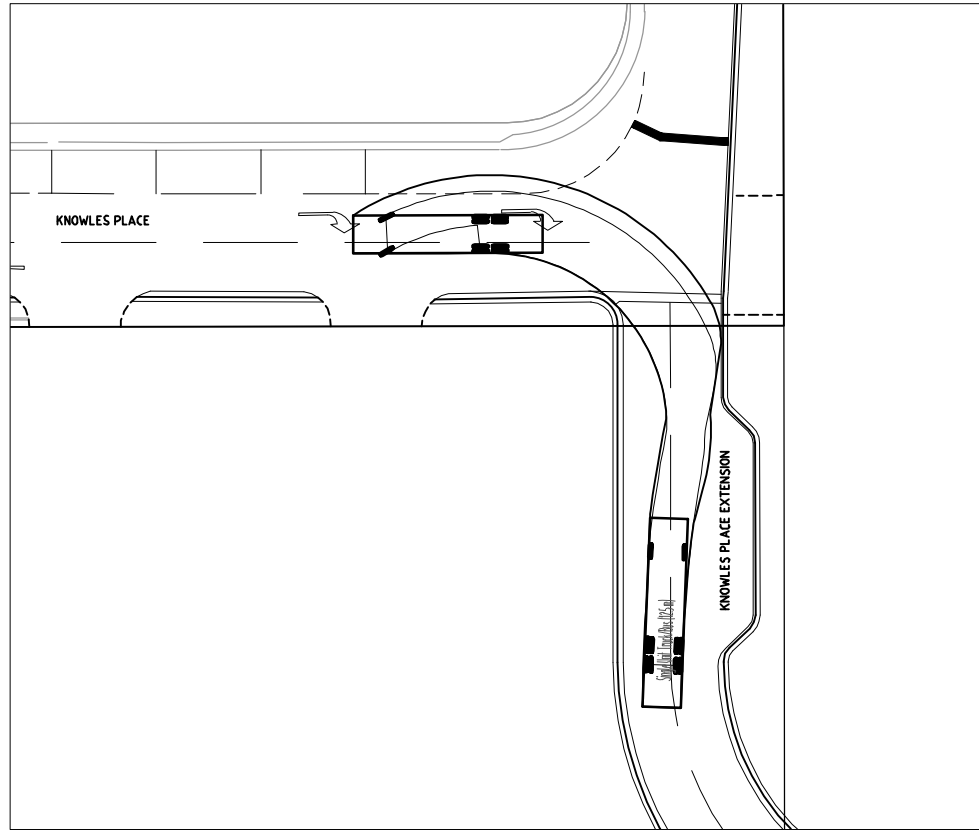
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Authorised MFB	Date 24-09-18

**SECTION 100 CANBERRA CITY
WORKS APPROVAL
TURNING MOVEMENTS
SHEET 1**

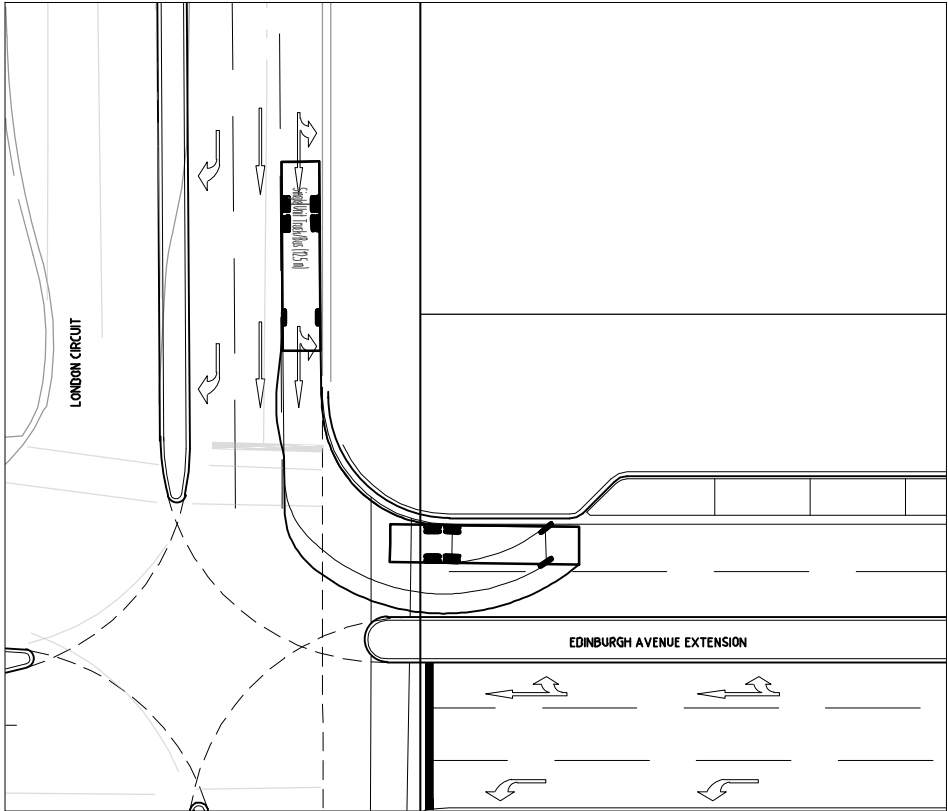
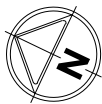
MPG CONSTRUCTIONS	Drg No PRELIMINARY 305632CR500	Rev A
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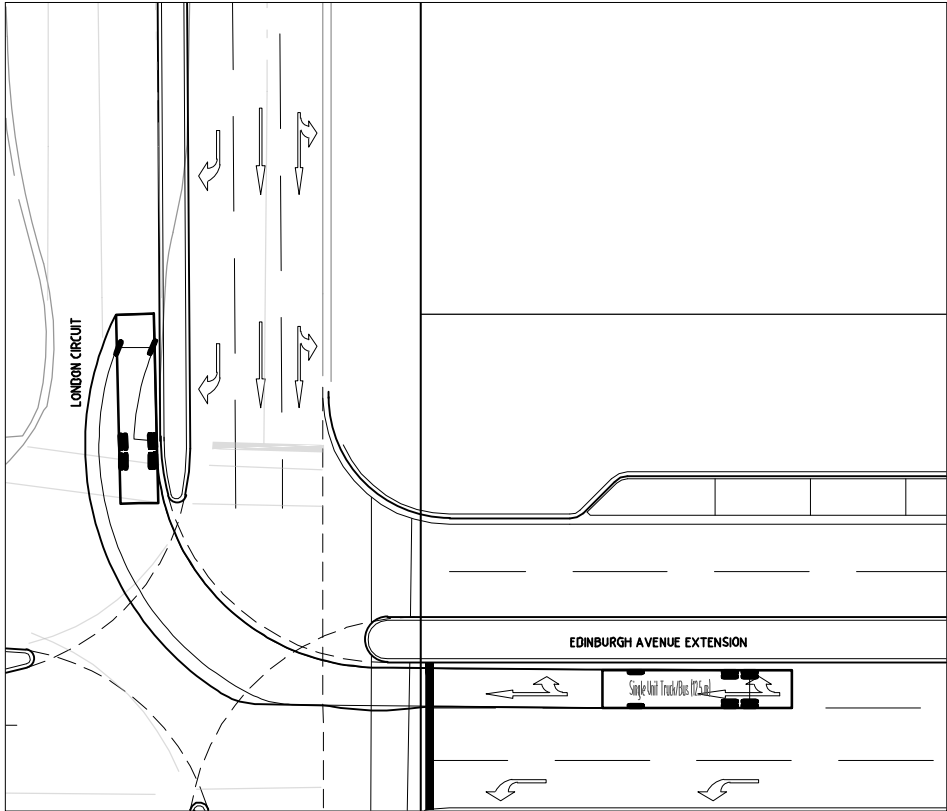
Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

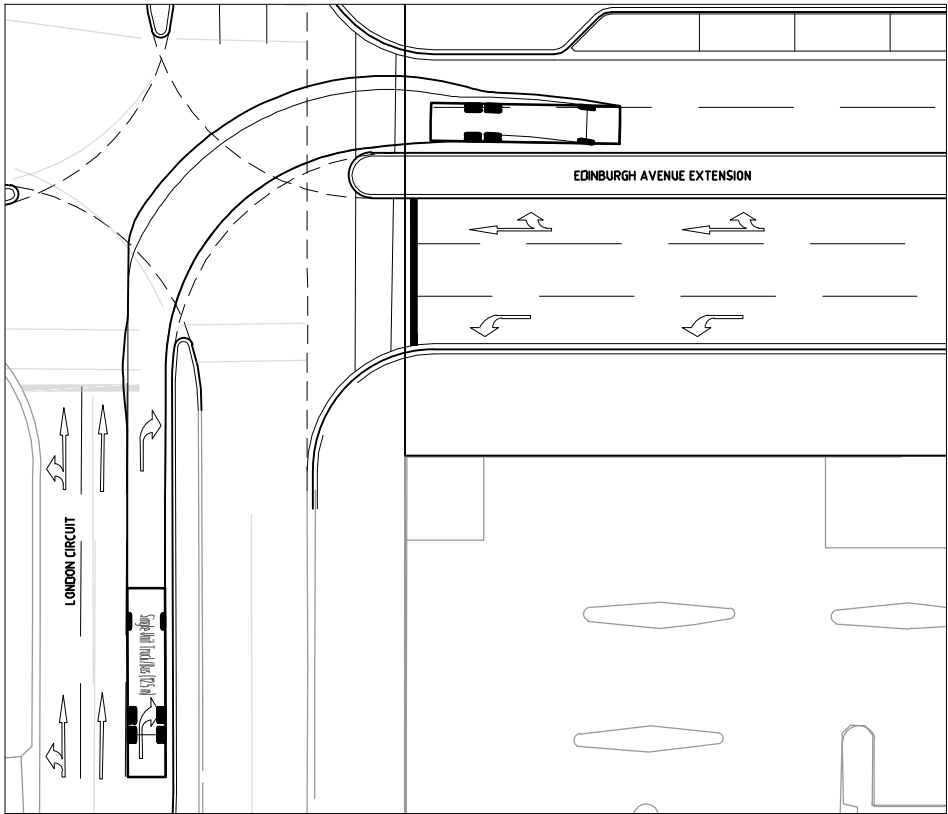
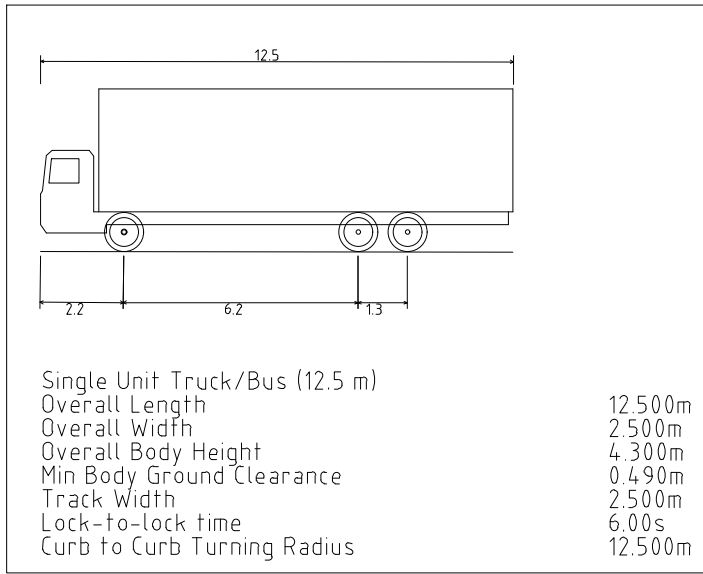
ev
A



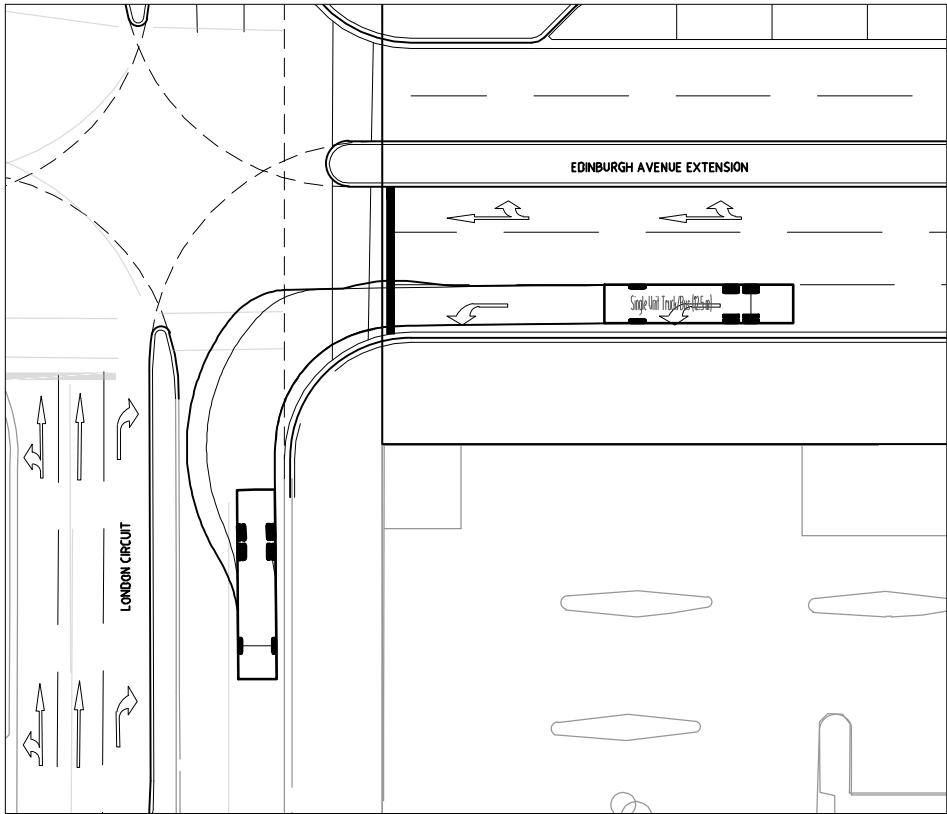
LEFT TURN FROM LONDON CIRCUIT TO EDINBURGH AVENUE EXTENSION



RIGHT TURN FROM EDINBURGH AVENUE EXTENSION TO LONDON CIRCUIT



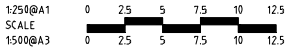
RIGHT TURN FROM LONDON CIRCUIT TO EDINBURGH AVENUE EXTENSION



LEFT TURN FROM EDINBURGH AVENUE EXTENSION TO LONDON CIRCUIT

file name: 305632CR500.TURN.dwg, layout name: CR502, plotted by: Spiire Gilbert,
file location: G:\305632CR500\A\CR502.dwg, date: 24/09/2018 11:44 AM, Sheet 22 of 22 Sheets

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SECTION 100 CANBERRA CITY
WORKS APPROVAL
TURNING MOVEMENTS
SHEET 3

MPG CONSTRUCTIONS

PRELIMINARY Drg No 305632CR502

Rev A

PLANT SCHEDULE - LD400				
CODE	BOTANICAL NAME	COMMON NAME	MATURE SIZE	ARRANGEMENT
TREES				
Central median	<i>Cupressus sempervirens</i> 'Stricta'	Pencil Pine	15 x 1.5m	As shown
Verge	<i>Platanus orientalis</i> 'Digitata'	Oriental Plane	15-20 x 10m	As shown
Verge	<i>Zelkova serrata</i> 'Green Vase'	Japanese Elm	14 x 10m	As shown
GARDEN BED PLANTING				
Verge (North only)	<i>Abelia schumannii</i>	Schumann Abelia	1.5 x 1m	Staggered
Verge	<i>Juniperus sabina</i>	Savin juniper	1 x 3m	Staggered
Central median	<i>Lomandra longifolia</i> 'Katrinus'	Mat rush	0.6 x 0.8m	Staggered
Verge- Vernon Circle	<i>Trachelospermum asiaticum</i>	Asiatic jasmine	0.4 x 3m	Staggered

- Terrabond infill to tree planting bay

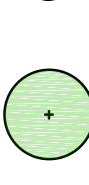
Refer to drawing 305632CF200 for
Designated Land / Non Designated
Land Boundary

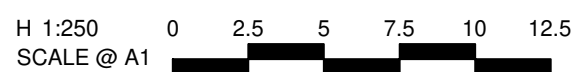
Granite paving Type 1
Single band of granite paving
Type 1 along lot boundary
Granite paving Type 2

- Granite paving Type 1

Feature band of Granite paving Type 3

LEGEND

-  **PROPOSED TREES**
Platanus orientalis 'Digitata'
-  **PROPOSED TREES**
Cupressus sempervirens 'Stricta'
-  **PROPOSED TREES**
Zelkova serrata 'Green Vase'
-  **GARDEN BED**
Refer Plant Schedule and Plans
-  **PAVING TYPE 1**
Austral Black granite paving
400 x 600mm
-  **PAVING TYPE 2**
Grandee Lio granite paving
400 x 600mm
-  **PAVING TYPE 3**
Kimberley Storm granite paving
400 x 600mm
-  **PAVING TYPE 4**
Granite sets 100 x 100mm
-  **PAVING TYPE 5**
Charcoal Terrabond
-  **PAVING TYPE 6**
Saw cut charcoal concrete
-  **GRANITIC GRAVEL**
-  **SEATING WALLS**
Concrete with timber battens

[illegible]

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Authorised
M.SANGALLI

Checked
S.EAKIN
Date
24-09-18

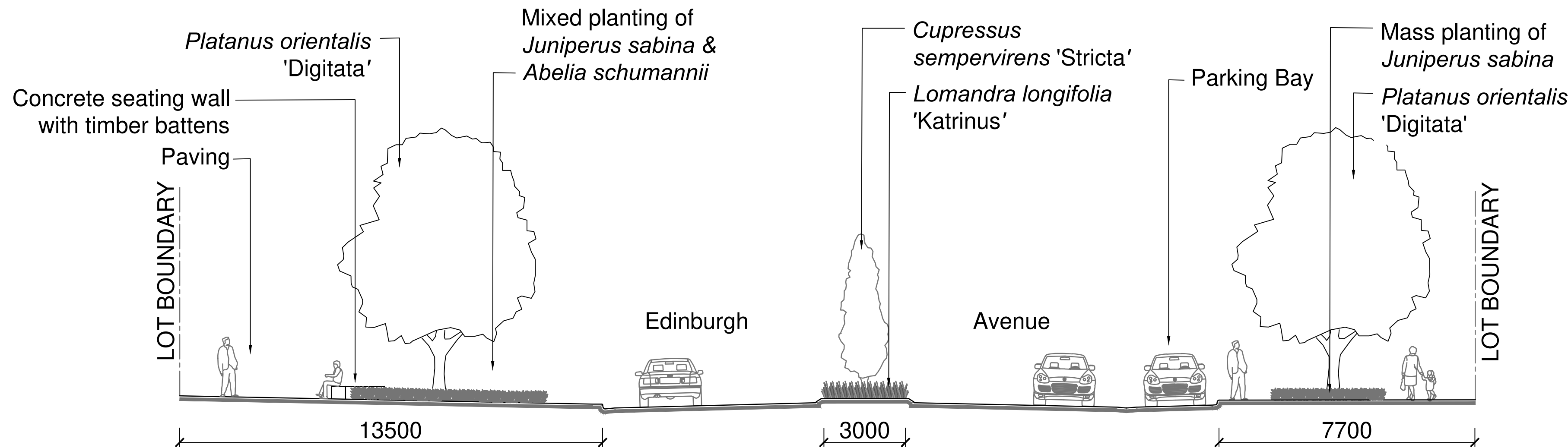
SECTION 100 CANBERRA CITY WORKS APPROVAL SURFACES & FINISHES PLANS

MPG CONSTRUCTIONS

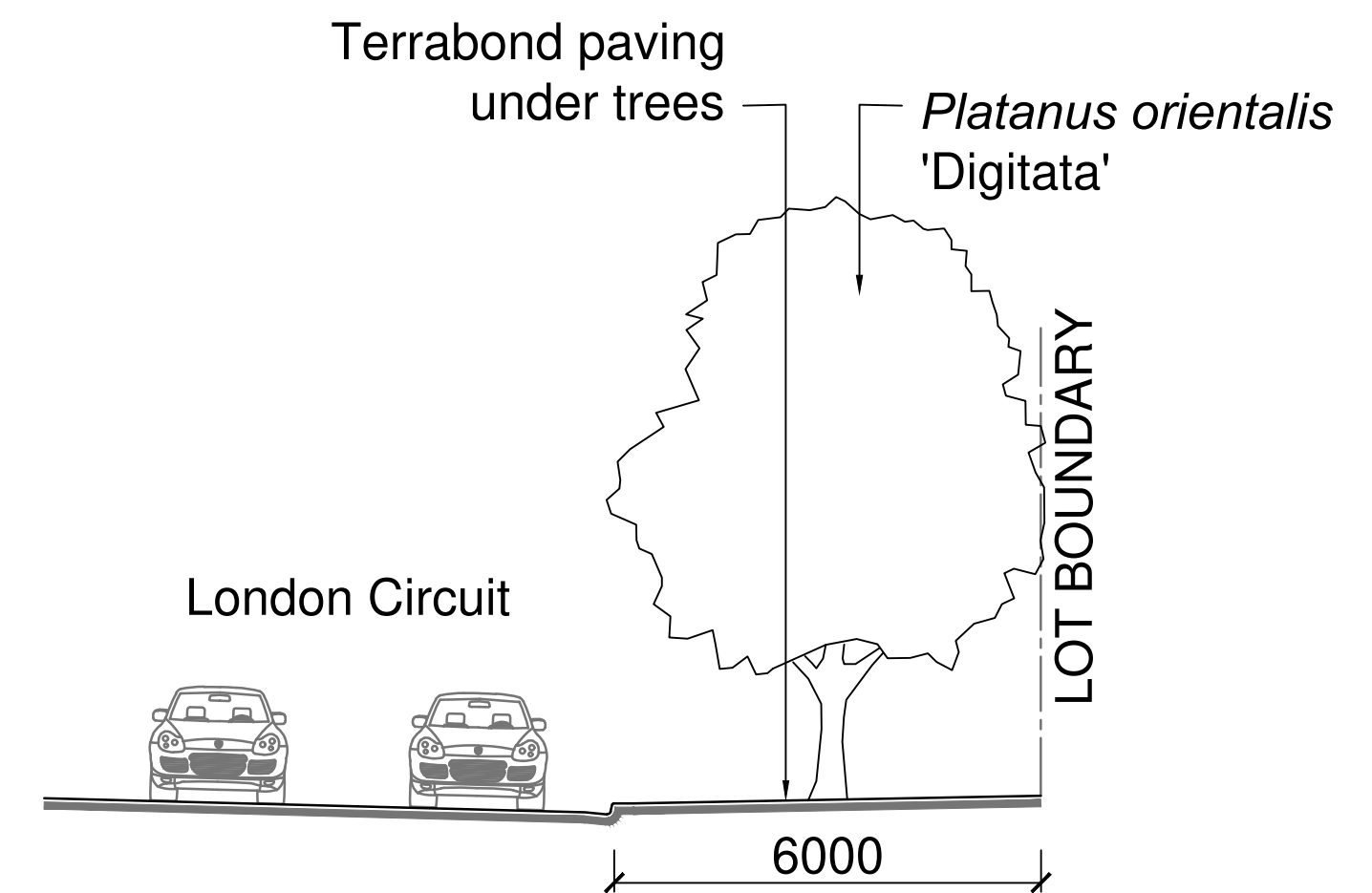
PRELIMINARY Drg No
305632LD400

Drg N

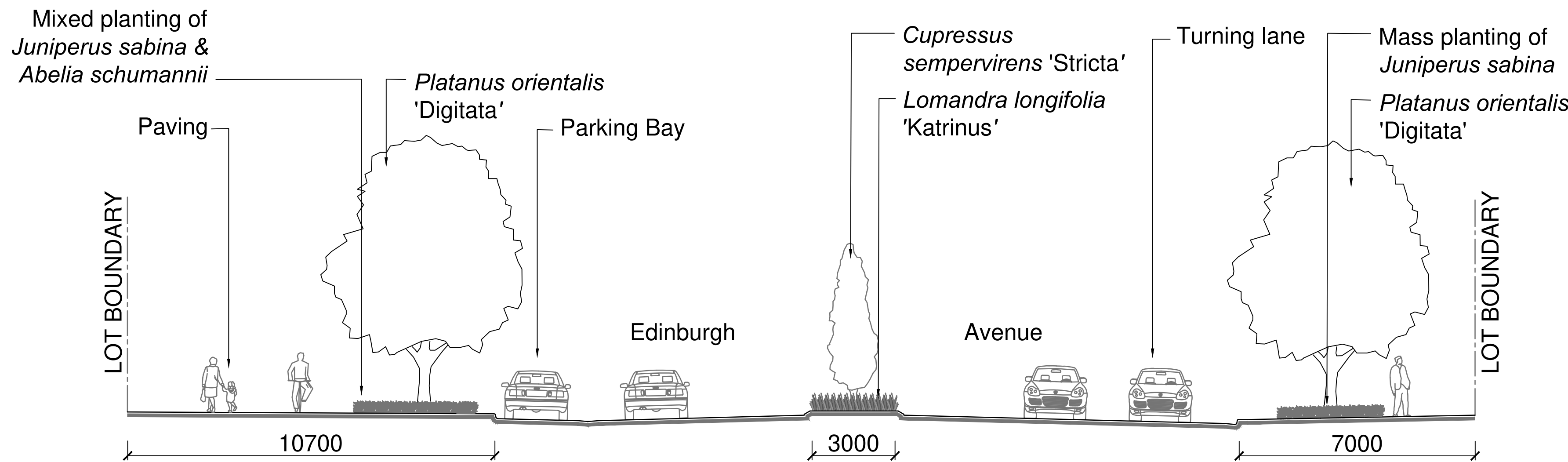
Rev



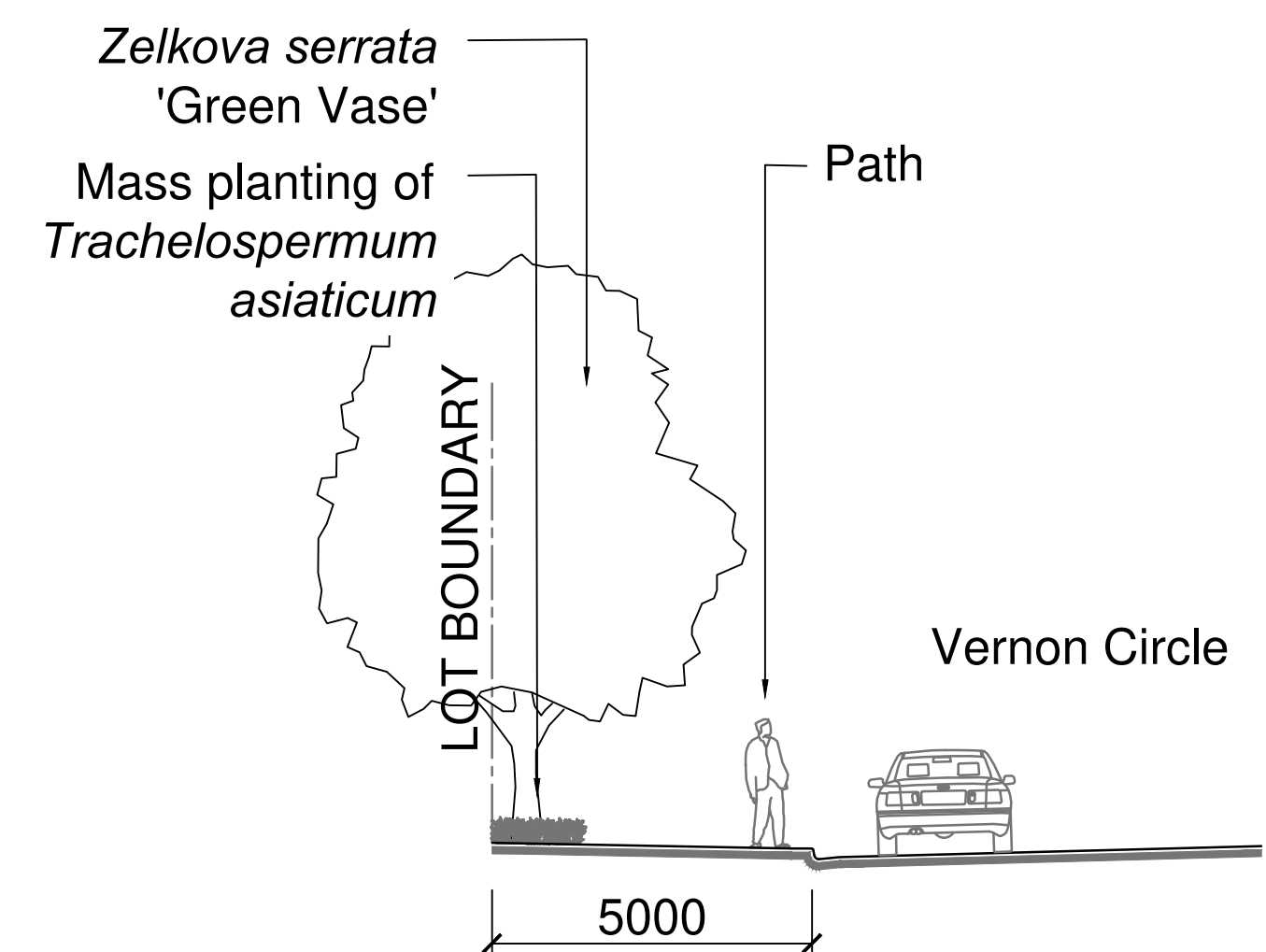
1 **Edinburgh Avenue (Dual 6.5m Carriageway)**
Section A-A' Scale 1:100 @ A1



3 **London Circuit north-west bound**
Section C-C' Scale 1:100 @ A1



2 **Edinburgh Avenue (Dual 6.5m carriageway with turning lane)**
Section B-B' Scale 1:100 @ A1



4 **Vernon Circle north bound**
Section D-D' Scale 1:100 @ A1

file name: 305632LD800 Section 100.dwg, layout name: LD800, plotted by: Sheridan Murray, file location: G:\305632\Landscapes\305632LD800\plot\305632LD800.dwg, 24/09/2018 11:42 AM, Sheet 1 of 7, Sheets

Rev	Amendments	Approved	Date
1	WORKS APPROVAL	SE	24-09-18

H: 1:100
SCALE @ A1



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Authorised M.SANGALLI	Date 24-09-18

SECTION 100 CANBERRA CITY WORKS APPROVAL SECTIONS

MPG CONSTRUCTIONS
PRELIMINARY Drg No
305632LD800 Rev

file path: 205632\0002 Section 100.dwg Layout name: LDTMP created by: Sheridan Murray
file location: G:\305632\Landscapes\100.dwg plot date: 24/09/2018 9:57 AM Sheet 1 of 1



LEGEND

ASSESSED EXISTING TREE

Refer to Tree Assessment Schedule
Existing Tree To Be Retained

HIGH VALUE ASSESSED TREE

Refer to Tree Assessment Schedule

VALUE RANKING

Refer to Tree Assessment Report

E = Exceptional Value
H = High Value
M = Medium Value
P = Poor Value
L = Low Value

EXISTING TREE

To be removed

EXISTING TREE

To be removed

General Data

Species

» Botanical Name

Height, Canopy and Trunk Circumference (Physical Dimensions)

» Height in metres

» Canopy diameter in metres shown as the maximum crown width of the tree or group of trees

» For Single Trunks circumference in metres, measured 1 metre above ground level

» For multiple trunks the cumulative total of each trunk in metres at 1 metre above ground level

Number of Trunks

» Number of trunks at 1 metre above ground level

Quality Ranking

The delineation within the value classification is based on the works being on leased land and therefore under the jurisdiction of the TCCS Urban Tree Unit (UTU). All trees on Government Land are regarded as protected trees and cannot be removed or damaged or works undertaken near them without the approval of the UTU. (The Tree Act and Regulated Tree definitions are therefore applicable to both public and leased sites, unless otherwise advised).

E - Exceptional Value

Trees that are outstanding examples of their species and have significant visual impact. They have most of the following: mature specimens with grand appearance and stature; may have unusual character; may be a rare species; well balanced; cultural heritage importance; significant scientific value; presents a low hazard/safety risk. Significant value within the landscape context of the site and should be preserved.

H - High Value

Trees that are good examples of their species and have significant visual impact. They have most of the following: high arboricultural value or potential; good form; healthy specimens with good size and little or no epicormic shoots or other arboricultural problems. Good value within the landscape context of the site and should be preserved if at all possible.

M - Medium Value

Trees generally complying with most of the following: reasonable form or reasonable current size with good health / growth potential; healthy specimen with significant growth (or with moderate tree surgery a large tree can be modified from fair to good health, ie can carry some deadwood); has value within the landscape context of the site; presents a medium to low hazard/safety risk. Does not justify special attention of construction expenditure but justifies a minor design adjustment to save or could be removed if necessary by approval. Retain if appropriate to land use and future management cost and risks.

P - Poor Value

Trees generally complying with most of the following: specimen with low growth or poor form and possible health problems; trees of little value; presents a high or very high hazard/safety risk. Expendable, remove if necessary - retain if appropriate to land use and future management costs and risks.

L - Low Value

Non-regulated tree under the 2005 Tree Protection Act for trees on leased blocks only. Trees therefore can range from well-established quality trees to poor health small trees of no significance. Some possibly with important landscape impact (e.g. regeneration) or future growth potential to contribute to the landscape in future years. Expendable, remove if necessary - retain if appropriate to land use and future management costs and risks.

D - Dead Tree

Tree Act Status / Protection Status

Tree 'Regulated' Status by Virtue of Size (On - Lease)

Under the Tree Protection Act 2005 a tree is termed a Regulated Tree and is to be protected if it is growing on Urban Leased land and has at least one of:

- * A height of 12m or more; or
 - * A trunk circumference of 1.5m (approx 0.5m in diameter) or more at 1m above ground level; or
 - * Two or more trunks and the total circumference of all the trunks, 1m above ground level, is 1.5m or more; or
 - * A minimum crown width of 12m or more; and
 - * Must be alive - all dead trees have been ranked as Non Protected tree.
- * Is not a weed species under the Pest Plant & Animals Declaration 2005

Tree Protected Status

YES - The tree has a dimension that any activity must be assessed under the Tree Protection Act on Leased land; or is on Government land eg. road verge, park, etc as all trees on Government land are protected.

NO - The tree if on Leased land is sufficiently small or declared a Weed Species that it does not require assessment under the Tree Protection Act.

Yes TCCS - Off Lease but often protected as these trees are generally on Government (Unleased) land.

Survey No.	Botanical Name	Height (m)	No. Trunks	Trunk circ. (m)	Canopy dia. (m)	Health and Vigour	Structural defects and decay	Past Damage or root disturbance	Disease or infestation	Stage	Quality Rating	Protected Status
						(G=good, F=fair, P=poor, DW=deadwood, EPI=epicormic growth)	(OC=occluded fork, AGL= Above Ground Level)	(AGL= Above Ground Level)	(AGL= Above Ground Level)	Juvenile (J), Semi-Mature (SM), Mature (M), Over-mature (OM)	Low (L), Poor (P), Medium (M), Very Poor (VP)	Disturbed Land (Yes/No), TCCS (Yes/No), Regulated (Yes/No), No (N), No (N), No (N)
1	Platanus acerifolia	7	1	0.56	4	Fair	-	-	-	Semi - Mature	Low	No
2	Platanus acerifolia	8	1	0.64	6	Fair	-	-	-	Semi - Mature	Low	No
3	Platanus acerifolia	8	1	0.69	6	Fair	-	-	-	Semi - Mature	Low	No
4	Platanus acerifolia	6	1	0.54	4.5	Fair	Stunted growth	-	-	Semi - Mature	Low	No
32	Platanus orientalis	7	1	0.7	7	Good	-	-	-	Mature	Poor	Yes TCCS
33	Platanus orientalis	10	1	0.9	9	Good	-	-	-	Mature	Poor	Yes TCCS
63	Platanus orientalis	10	1	0.89	5	Fair - Major EPI	-	-	-	Semi - Mature	Low	No
64	Platanus orientalis	8	1	0.87	5	Fair - Major EPI	-	-	-	Semi - Mature	Low	No
65	Platanus orientalis	9	1	1.07	8	Good to Fair - Major EPI	Lapided canopy	Past limb removal. Major roots exposed at base of tree	-	Mature	Low	No
66	Platanus acerifolia	8	1	0.7	5	Fair - Major EPI and minor DW	-	-	-	Semi - Mature	Low	No
67	Platanus acerifolia	7	1	0.49	3	Fair - Major DW	Stunted growth	-	-	Semi - Mature	Low	No
68	Platanus acerifolia	8	1	0.83	5	Fair	Good form	-	-	Semi - Mature	Low	No
149	Platanus acerifolia	10.5	1	0.7	6	Good	Good form	Past limb removal	-	Mature	Medium -	Yes TCCS
150	Platanus orientalis	13	1	0.9	10	Good	-	-	-	Mature	Medium -	Yes TCCS
151	Platanus acerifolia	10.5	1	0.7	6.5	Good	Poor form	-	-	Mature	Poor	Yes TCCS
152	Platanus orientalis	9	1	0.5	4	Good	-	-	-	Mature	Poor	Yes TCCS
153	Platanus orientalis	11	1	0.7	6	Fair - DW and EPI	Lapided canopy	-	-	Mature	Poor	Yes TCCS
154	Platanus orientalis	9	1	0.6	7	Good	-	-	-	Mature	Medium -	Yes TCCS
155	Platanus orientalis	8	1	0.5	6	Fair - EPI	-	-	-	Mature	Poor	Yes TCCS
156	Platanus orientalis	7	1	0.5	2	Fair - Major EPI	Stunted growth	-	-	Mature	Poor	Yes TCCS
159	Platanus orientalis	10	1	0.6	5	Fair - Major EPI	-	-	-	Mature	Poor	Yes TCCS
164	Platanus acerifolia	13	1	1.7	12	Good	-	-	-	Mature	High	Yes TCCS
165	Platanus acerifolia	13	1	2.1	13	Good	-	-	-	Mature	High	Yes TCCS
166	Platanus acerifolia	13	1	1.8	12	Good - Some minor EPI	-	-	-	Mature	High	Yes TCCS
239	Ulmus procera	11	1	0.7	5	Fair	-	-	-	Mature	Low	No
240	Ulmus procera	10	1	1.4	10	Fair - Major EPI and DW	-	Exposed roots	-	Mature	Low	No
254	Ulmus procera	11.5	1	1.3	8	Fair - Major EPI and DW	-	-	-	Mature	Low	No
255	Ulmus procera	11.5	1	1.3	12	Fair - Major EPI and DW	Past limb failures decay	Exposed Roots	-	Mature	Poor	Yes
256	Ulmus procera	12.5	1	1.4	13	Fair	Decay in lower trunk and OC	-	Past insect attack	Mature	Poor	Yes
257	Ulmus procera	11	1	1.47	12	Good - EPI	OC	-	-	Mature	Medium	Yes
258	Ulmus procera	12	1	1.37	9	Fair - Major EPI	-	-	-	Mature	Poor	Yes
259	Ulmus procera	11	1	1.26	10	Good - EPI	OC	-	-	Mature	Low	Yes
263	Gleditsia sp.	8	1	0.64	8	Good	Leaning	-	-	Mature	Low	No
264	Gleditsia sp.	7	1	0.7	6	Good to Fair - EPI and DW	-	-	-	Mature	Low	No
265	Gleditsia sp.	6	1	0.74	8	Good to Fair - EPI and DW	-	-	-	Mature	Low	No
300	Platanus orientalis	10	1	0.6	6	Fair - Major EPI	-	Past limb failure	-	Mature	Poor	Yes TCCS
301	Platanus orientalis	13	1	1.23	10	Good	-	-	-	Mature	High	Yes TCCS
302	Platanus acerifolia	12	1	1.9	13	Good	-	-	-	Mature	High	Yes TCCS
303	Ulmus procera	11	1	1.4	9	Fair - Major EPI and DW	-	-	-	Mature	Low	No

NOT TO SCALE



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Checked
S.EAKIN

Date
24-09-18

SECTION 100 CANBERRA CITY WORKS APPROVAL TREE MANAGEMENT PLAN

MPG CONSTRUCTIONS

PRELIMINARY Drg No
305632 TMP 01

Rev