PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW
CIVIL ENGINEERING WORKS

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LIVERPOOL COUNCIL SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND LIVERPOOL COUNCIL REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

LOCALITY SKETCH

SCALE: N.T.S.

DRAWING SCHEDULE

22U24_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
22U24_DA_C100	GENERAL ARRANGEMENT PLAN
22U24_DA_C101	CIVIL DETAIL PLAN, SHEET 1 OF 2
22U24_DA_C102	CIVIL DETAIL PLAN, SHEET 2 OF 2
22U24_DA_C105	LOWER GROUND DETAIL PLAN
22U24_DA_C110	SITE SECTIONS - SHEET 1 OF 2
22U24_DA_C111	SITE SECTIONS - SHEET 2 OF 2
22U24_DA_C120	EIGHT AVE LONGITUDINAL SECTION AND CHAINAGES PLAN
22U24_DA_C121	WARRAWAL AVE LONGITUDINAL SECTION AND CHAINAGES PLAN
22U24_DA_C122	AUGER STREET LONGITUDINAL SECTION AND CHAINAGES PLAN - SHEET 1 OF 2
22U24_DA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
22U24_DA_C201	OSD PLAN, SECTION AND DETAILS
22U24_DA_C250	PRE-DEVELOPMENT STORMWATER CATCHMENT PLAN
22U24_DA_C251	POST-DEVELOPMENT STORMWATER CATCHMENT PLAN
22U24_DA_C252	STORMWATER CATCHMENT PLAN
22U24_DA_C600	LINEMARKING AND SIGNPOSTING PLAN
22U24_DA_C650	TURNING PATH - EIGHTH AVE
22U24_DA_BE01	BULK EARTHWORKS CUT AND FILL PLAN
22U24_DA_BE02	BULK EARTHWORKS SECTIONS
22U24_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
22U24_DA_SE02	SEDIMENT AND EROSION CONTROL DETAILS

SITEWORKS NOTES

- DATUM : A.H.D.
- ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR DA ONLY	PS	TR	20.05.2024					
04	ISSUED FOR DA ONLY	MP	MM	16.05.2024					
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023					
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023					

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

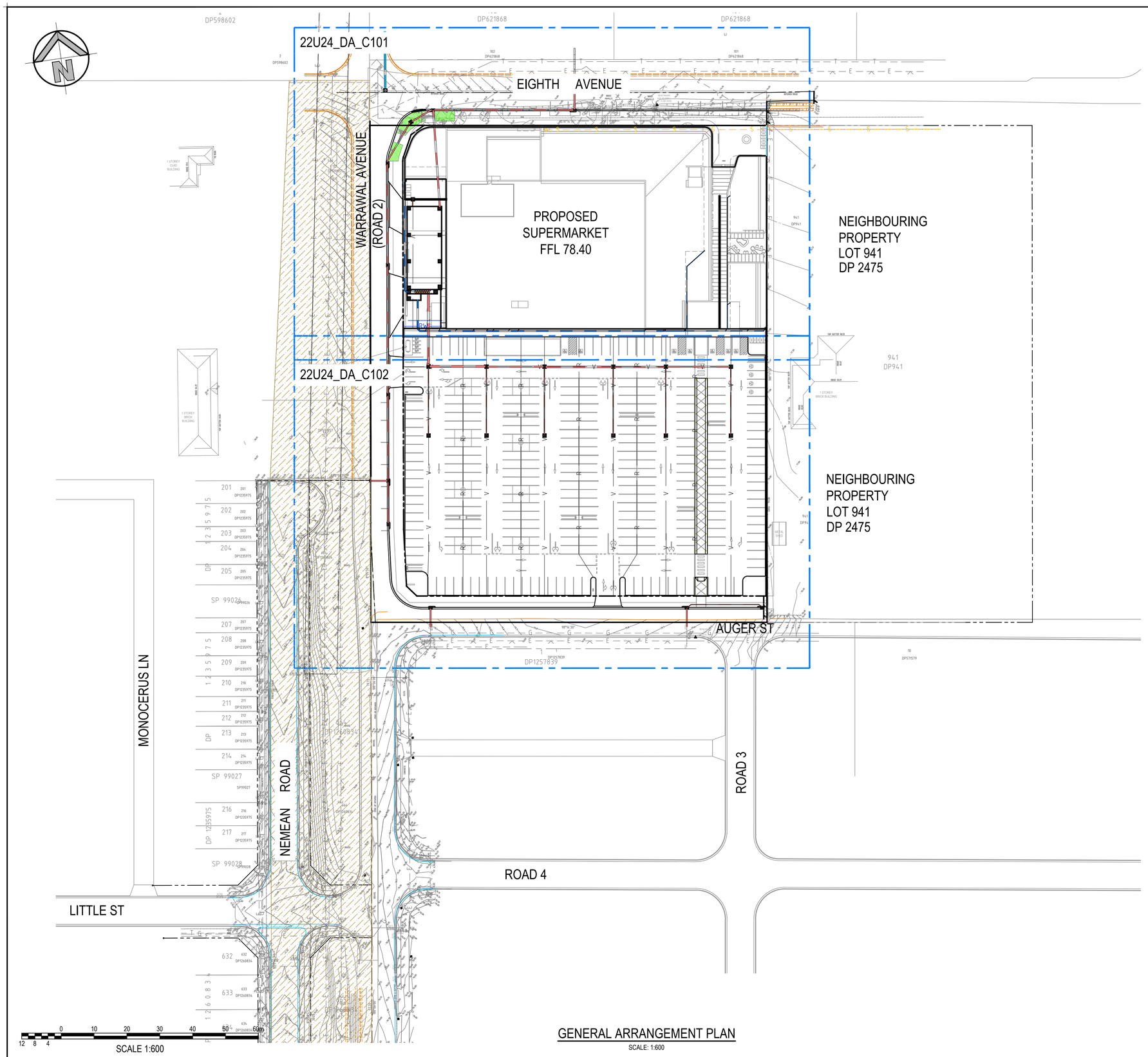
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	N.T.S.

Drawing number: 22U24_DA_C000

Revision: 05



LEGEND

- EXISTING SURVEY BOUNDARY
- ROAD BOUNDARY
- R — PROPOSED RIDGE LINE
- V — PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- A-1 — LINE LETTER, PIT NUMBER — PROPOSED PIT TAG
- 40.125 — STORMWATER UPSTREAM INVERT RL.
- Ø425RCP — STORMWATER PIPE DIAMETER & CLASS
- 20.450m — STORMWATER PIPE LENGTH
- 1.5% — STORMWATER PIPE GRADE
- 39.818 — STORMWATER DOWNSTREAM INVERT RL.
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- IN-GROUND DOWNPIPE COLLECTION LINE
- 76.03 — EXISTING CONTOURS
- 72.50 — PROPOSED CONTOURS
- RL78.10 — PROPOSED SPOT LEVEL
- EX72.90 — EXISTING SPOT LEVEL
- KO — PROPOSED KERB ONLY
- ES — PROPOSED EDGE STRIP
- RW — PROPOSED RETAINING WALL
- RW — PROPOSED RECYCLED WATER
- SW — EXISTING STORMWATER
- T — EXISTING TELSTRA LINE
- E — EXISTING ELECTRICAL OVERHEAD LINE
- G — EXISTING GAS LINE
- S — EXISTING SEWER LINE
- EXISTING ROAD EDGE
- FUTURE ROAD BY OTHERS
- STREETSCAPE RAINGARDEN WITH KERB OPENING AND SCOUR PROTECTION
- EXISTING ELECTRICAL EASEMENT

GENERAL ARRANGEMENT PLAN

SCALE: 1:600

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR DA ONLY	PS	TR	04.06.2024
05	ISSUED FOR DA ONLY	MP	MM	16.05.2024
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023

Client: FABCOT

Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

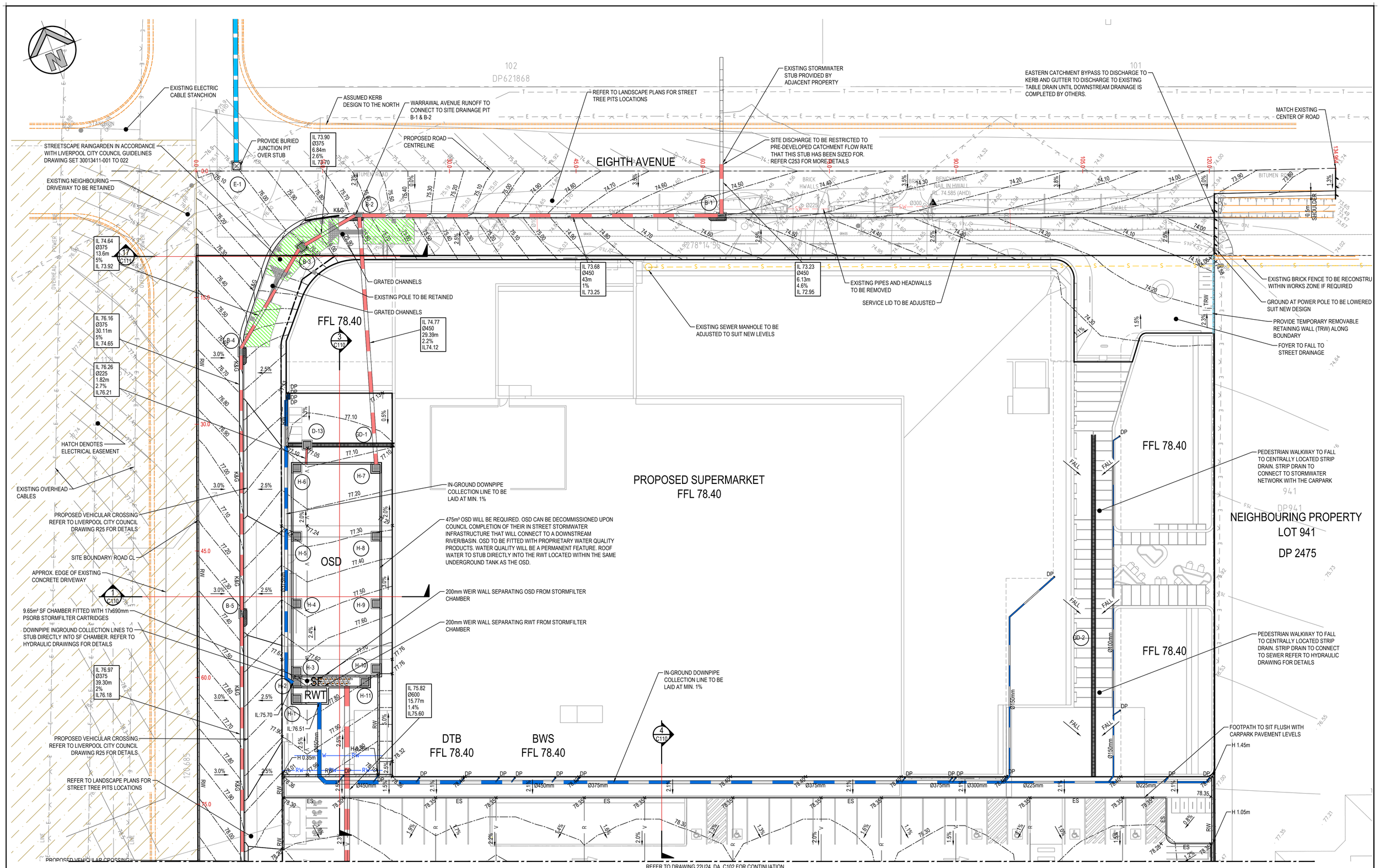
Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: GENERAL ARRANGEMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:600

Drawing number: 22U24_DA_C100

Revision: 06



CIVIL DETAIL PLAN

SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR DA ONLY	PS	TR	04.06.2024					
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024					
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023					
01	ISSUED FOR INFORMATION	LC	LC	12.05.2023					

Client
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Architect
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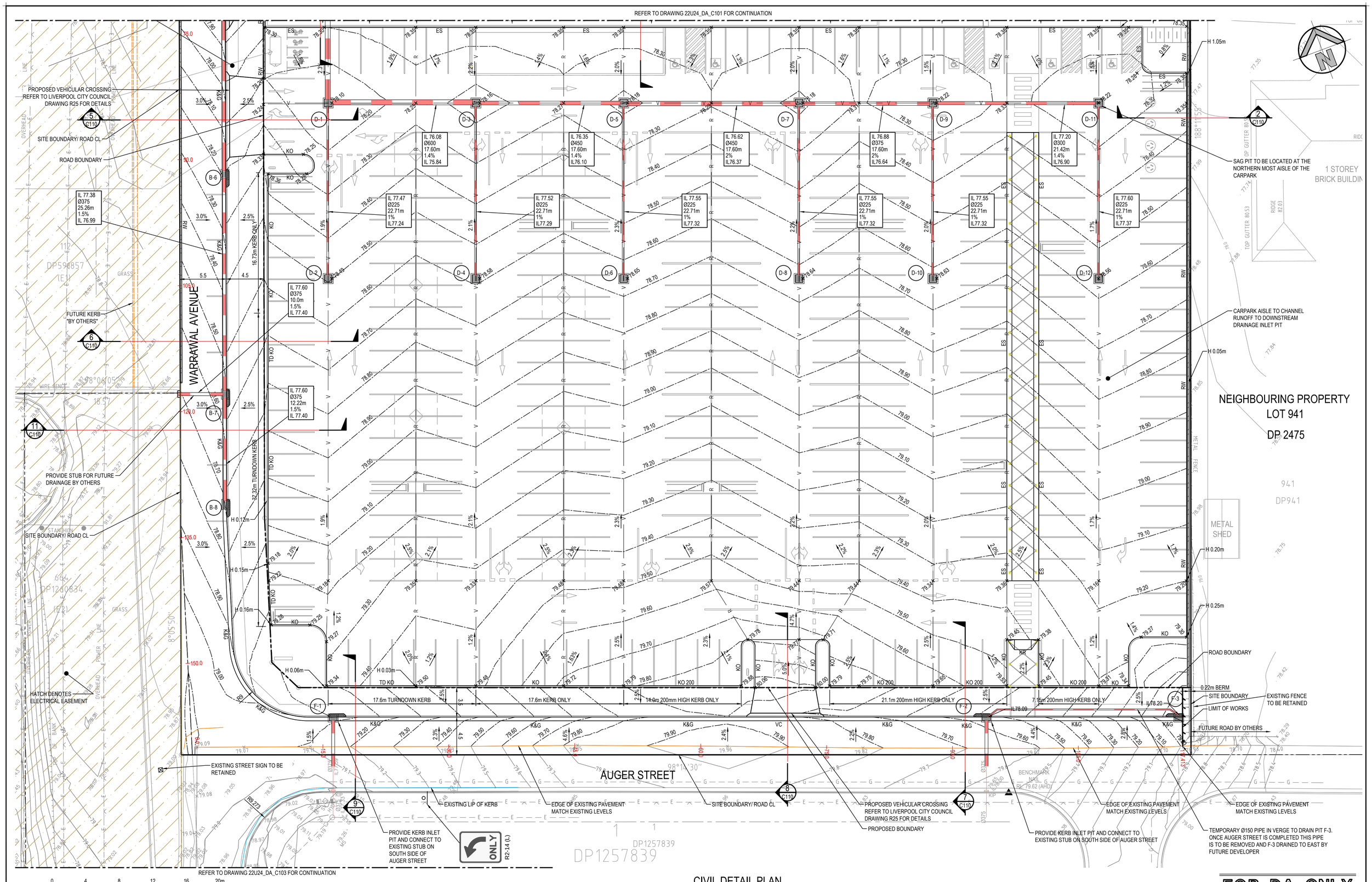
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
CIVIL DETAIL PLAN
SHEET 1 OF 2

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:200

Drawing number 22U24_DA_C101
Revision 05



SCALE 1:200

CIVIL DETAIL PLAN

SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR DA ONLY	PS	TR	04.06.2024
05	ISSUED FOR DA ONLY	MP	MM	16.05.2024
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023
01	ISSUED FOR INFORMATION	LC	LC	12.05.2023

Client
FABCOT

Architect
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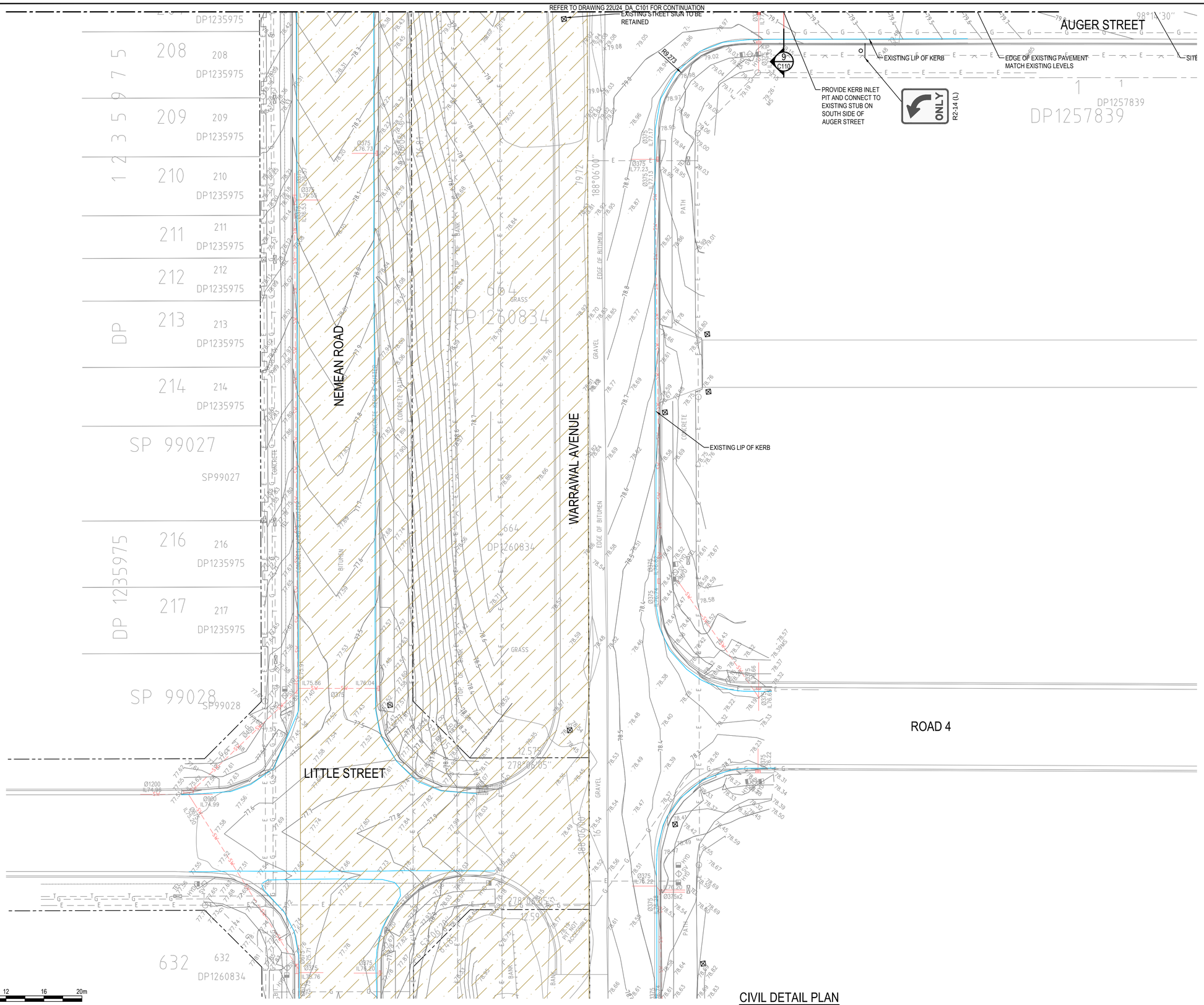
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
CIVIL DETAIL PLAN
SHEET 2 OF 2

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:200

Drawing number: 22U24_DA_C102
Revision: 06



0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

CIVIL DETAIL PLAN

SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR DA ONLY	MP	MM	16.05.2024					
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024					
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023					
01	ISSUED FOR INFORMATION	LC	LC	12.05.2023					

Client
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Architect
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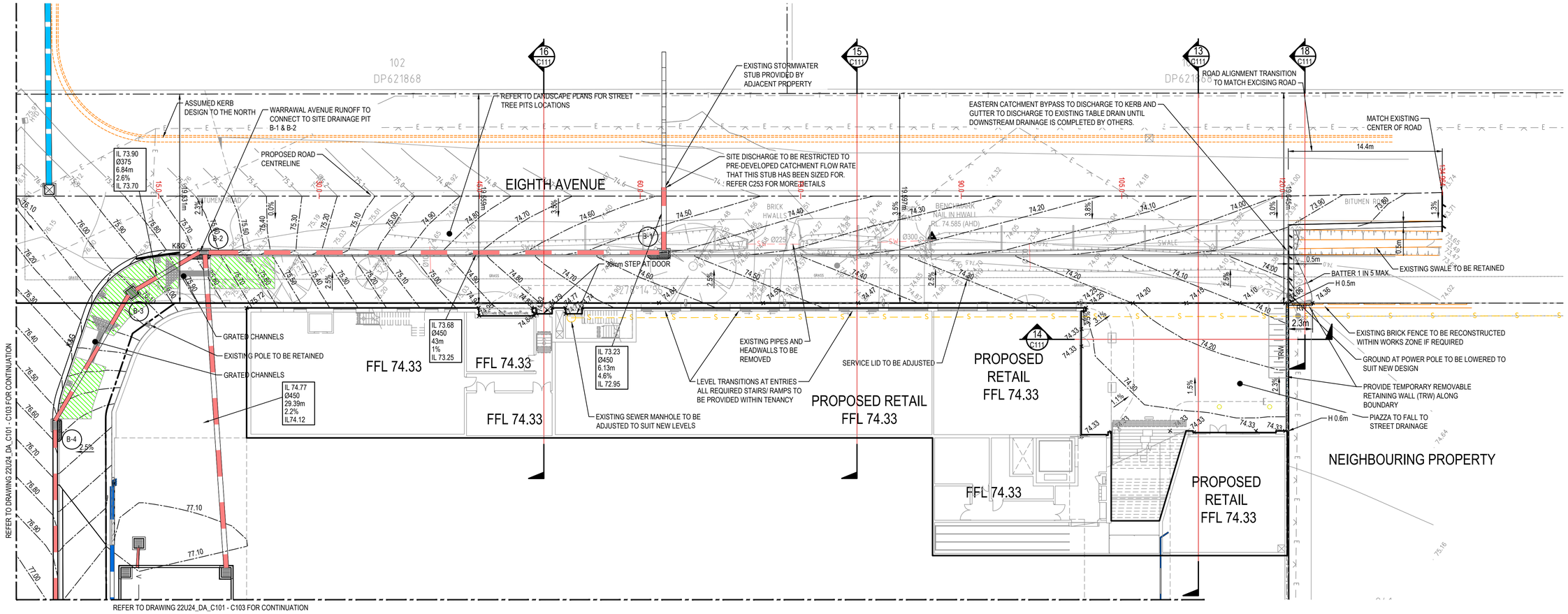
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
CIVIL DETAIL PLAN
SHEET 3 OF 3

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:200

Drawing number 22U24_DA_C103

Revision 05



LOWER GROUND DETAIL PLAN

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	PS	TR	04.06.2024					
02	ISSUED FOR DA ONLY	MP	MM	11.03.2024					
01	ISSUED FOR DA ONLY	SC	MM	14.06.2023					

Client
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Architect
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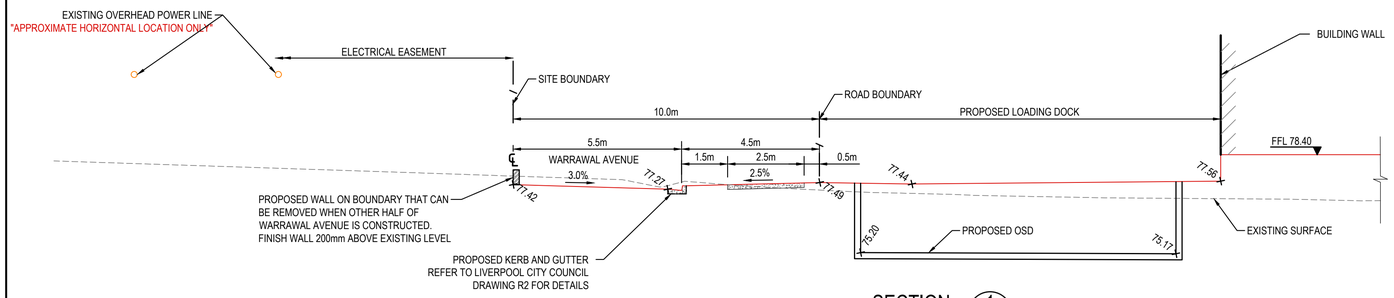
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
LOWER GROUND DETAIL PLAN

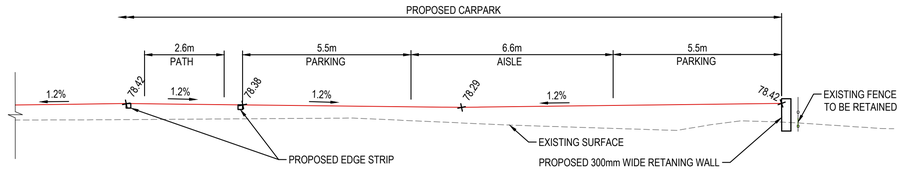
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:200

Drawing number: 22U24_DA_C105

Revision: 03



SECTION 1 C101
SCALE: 1:100 @ A1



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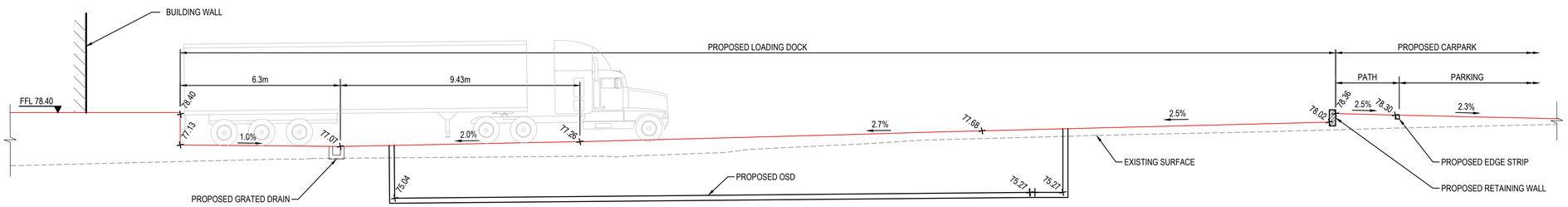

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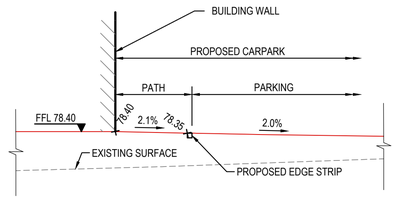

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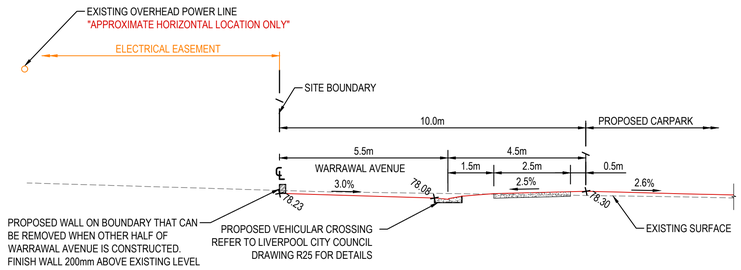

SECTION 5 C102
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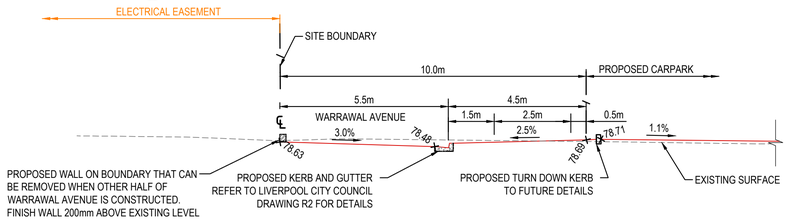

SECTION 6 C102
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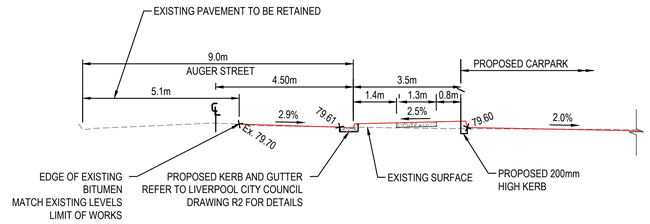

SECTION 7 C102
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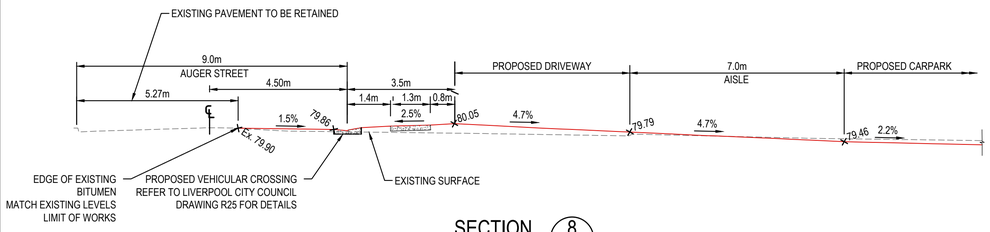
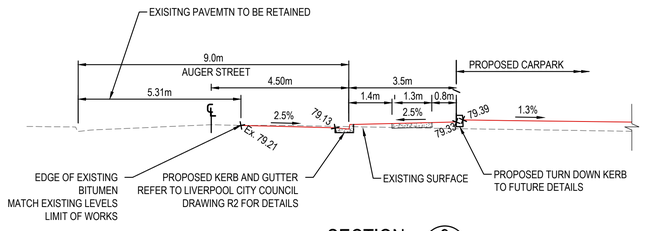
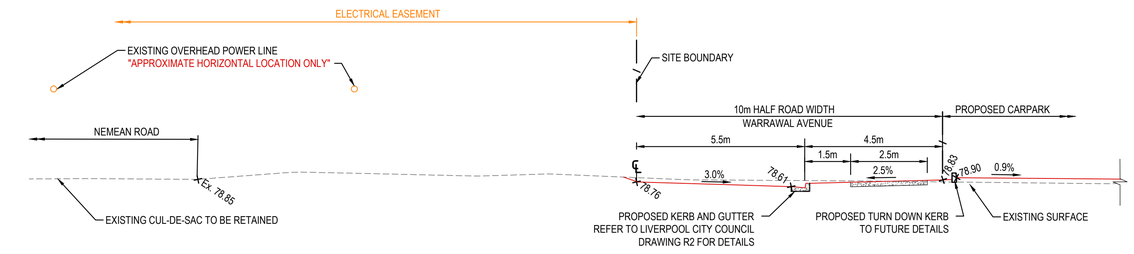


SECTION 8 C102
SCALE: 1:100 @ A1



SECTION 9 C102
SCALE: 1:100 @ A1



SECTION 11 C102
SCALE: 1:100 @ A1

0 2 4 6 8 10m
2 1
SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	PS	TR	04.06.2024
02	ISSUED FOR DA ONLY	MP	MM	16.05.2024
01	ISSUED FOR DA ONLY	LC	MM	14.06.2023

Client: FABCOT
Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

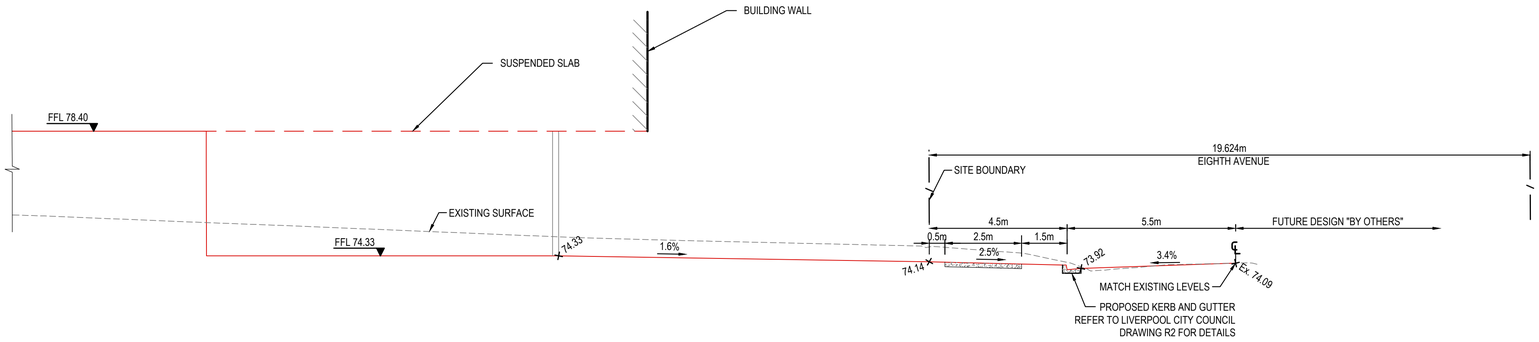
henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

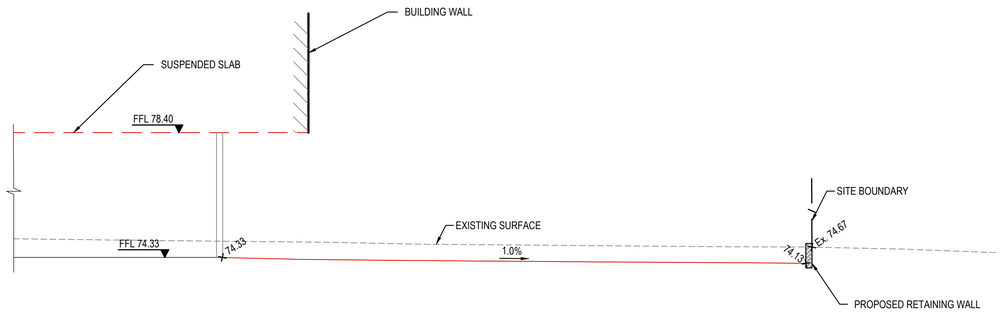
Title: SITE SECTIONS
SHEET 1 OF 2

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:100

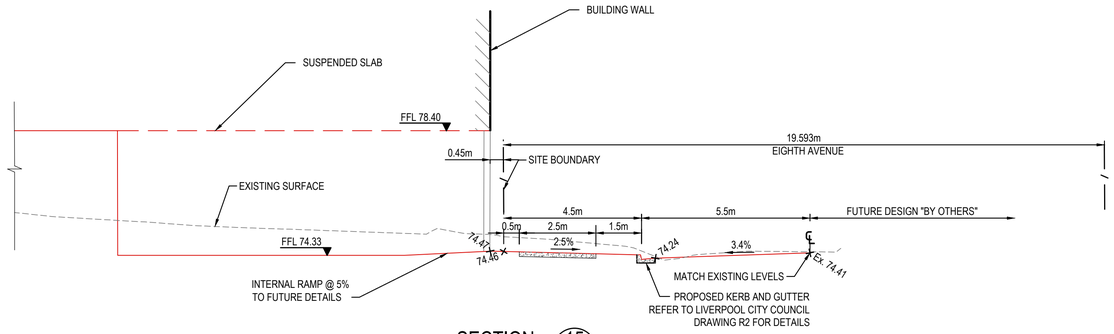
Drawing number: 22U24_DA_C110
Revision: 03



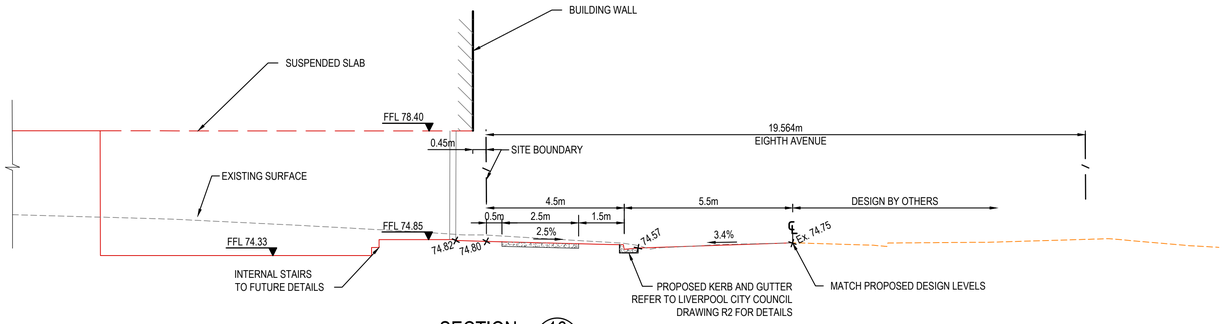
SECTION 13 / C105
SCALE: 1:100 @ A1



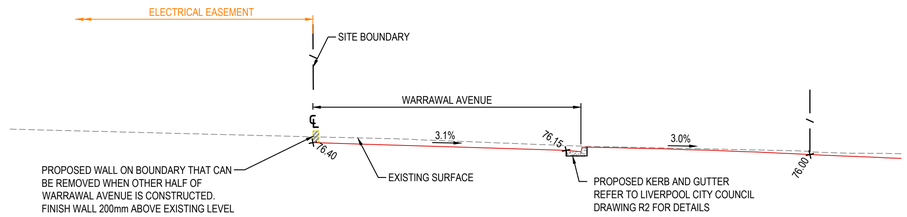
SECTION 14 / C105
SCALE: 1:100 @ A1



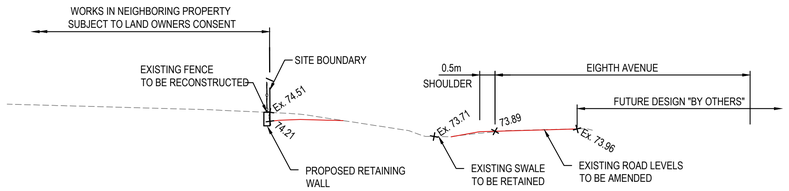
SECTION 15 / C105
SCALE: 1:100 @ A1



SECTION 16 / C105
SCALE: 1:100 @ A1



SECTION 17 / C101
SCALE: 1:100 @ A1



SECTION 18 / C105
SCALE: 1:100 @ A1

0 2 4 6 8 10m
2 1
SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	PS	TR	04.06.2024
01	ISSUED FOR DA ONLY	LC	MM	14.06.2023

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

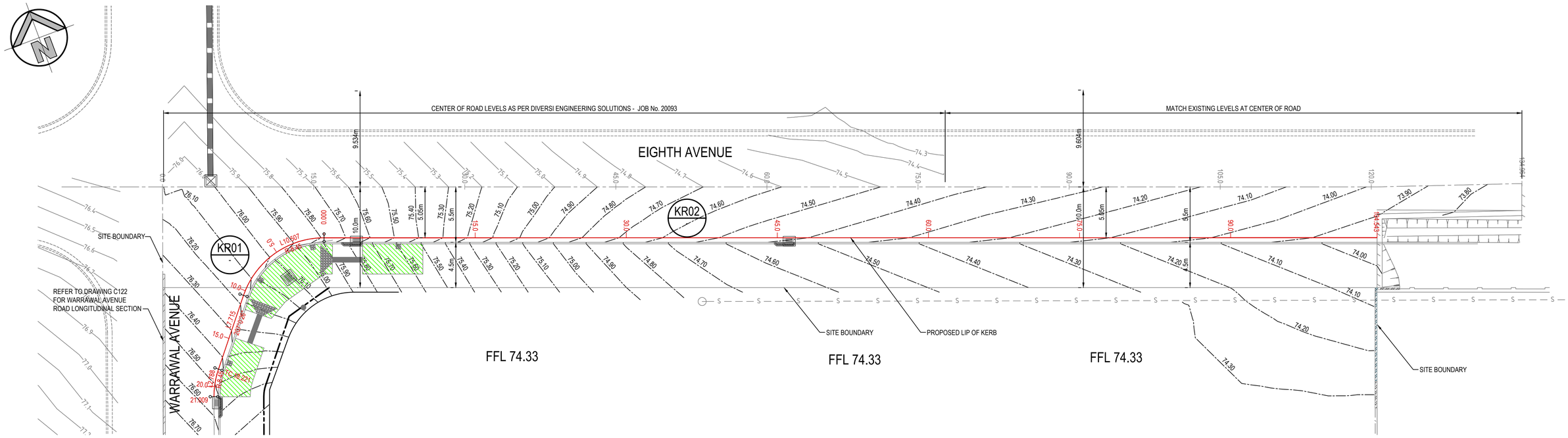
henry&hymas

Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
SITE SECTIONS
SHEET 2 OF 2

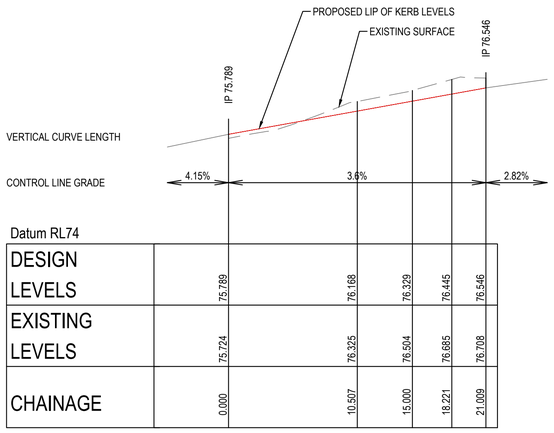
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:100

Drawing number: 22U24_DA_C111
Revision: 02



EIGHT AVENUE CHAINAGES PLAN

SCALE: 1:200

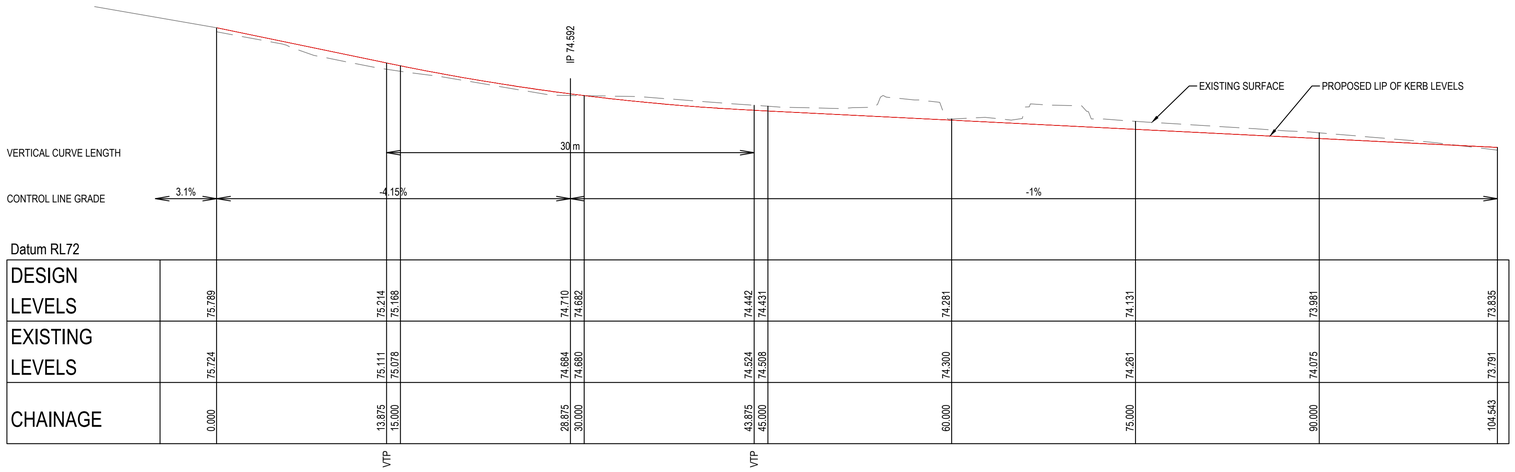


Datum RL74

DESIGN LEVELS	75.789	76.168	76.329	76.445	76.546	
EXISTING LEVELS	75.724	76.325	76.504	76.685	76.708	
CHAINAGE	0.000	10.607	15.000	18.221	21.009	

LONGITUDINAL SECTION KERB RETURN No. 01 - LIP OF KERB

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



Datum RL72

DESIGN LEVELS	75.789	75.214 / 75.168	74.710 / 74.692	74.442 / 74.431	74.281	74.131	73.981	73.835
EXISTING LEVELS	75.724	75.111 / 75.078	74.684 / 74.680	74.524 / 74.508	74.300	74.261	74.075	73.791
CHAINAGE	0.000	13.875 / 15.000	28.875 / 30.000	43.875 / 45.000	60.000	75.000	90.000	104.543

LONGITUDINAL SECTION KERB RETURN No. 02 - LIP OF KERB

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	PS	TR	04.06.2024
01	ISSUED FOR DA ONLY	SC	MM	14.06.2023

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

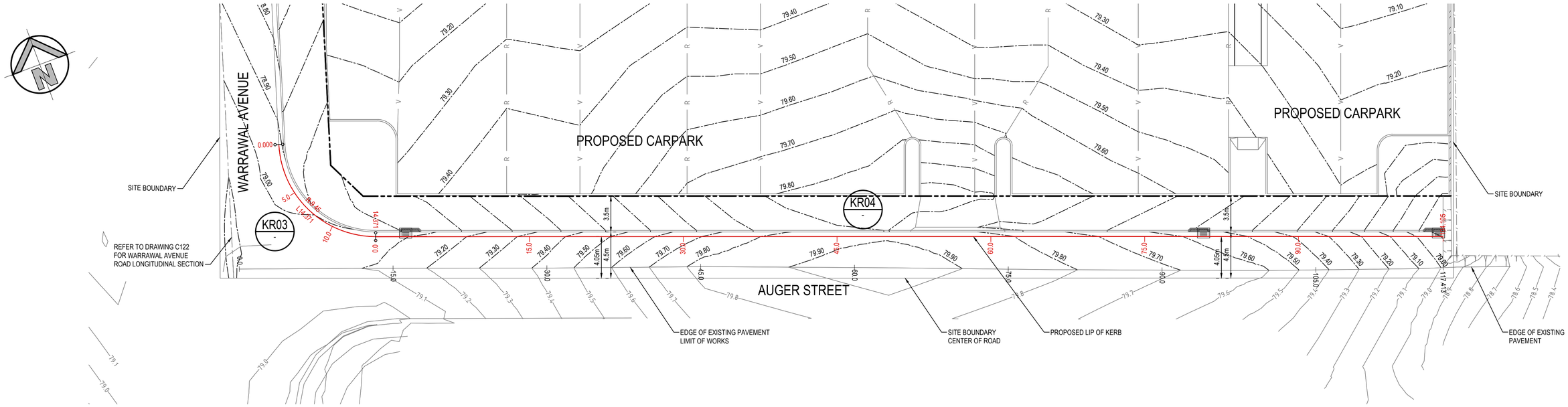
henry&hymas

Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
EIGHT AVE LONGITUDINAL SECTION AND CHAINAGES PLAN

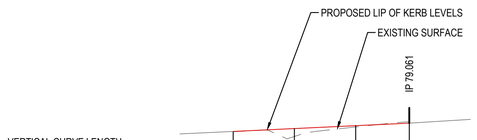
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS SHOWN

Drawing number: 22U24_DA_C120
Revision: 02



AUGER STREET CHAINAGES PLAN

SCALE: 1:200

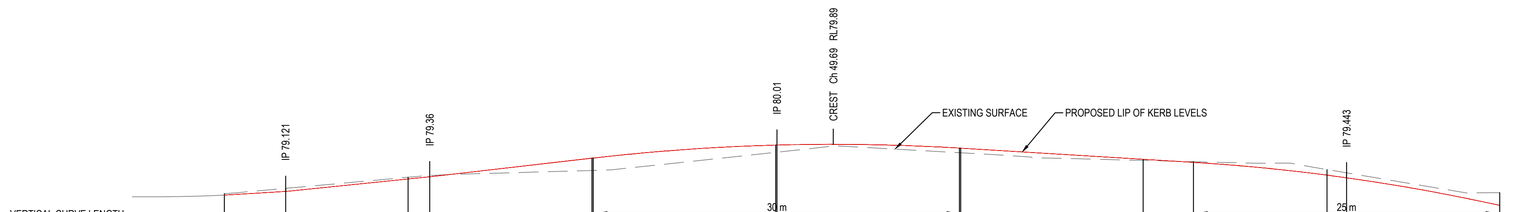


Datum RL77

DESIGN LEVELS	78.925	78.973	79.020	79.061
EXISTING LEVELS	78.921	78.843	78.999	79.084
CHAINAGE	0.000	5.000	10.000	14.371

LONGITUDINAL SECTION KERB RETURN No. 03 - LIP OF KERB

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



Datum RL77

DESIGN LEVELS	79.061	79.121	79.324	79.360	79.663	79.666	79.877	79.878	79.828	79.827	79.645	79.595	79.387	79.344	78.893
EXISTING LEVELS	79.084	79.171	79.352	79.381	79.464	79.464	79.769	79.762	79.753	79.752	79.627	79.606	79.478	79.424	79.101
CHAINAGE	0.000	5.000	15.000	16.767	30.000	30.106	45.000	45.106	60.000	60.106	75.000	79.105	90.000	91.605	104.105

VTP VTP VTP

LONGITUDINAL SECTION KERB RETURN No. 04 - LIP OF KERB

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	PS	TR	20.05.2024
01	ISSUED FOR DA ONLY	SC	MM	14.06.2023

Client: FABCOT

Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

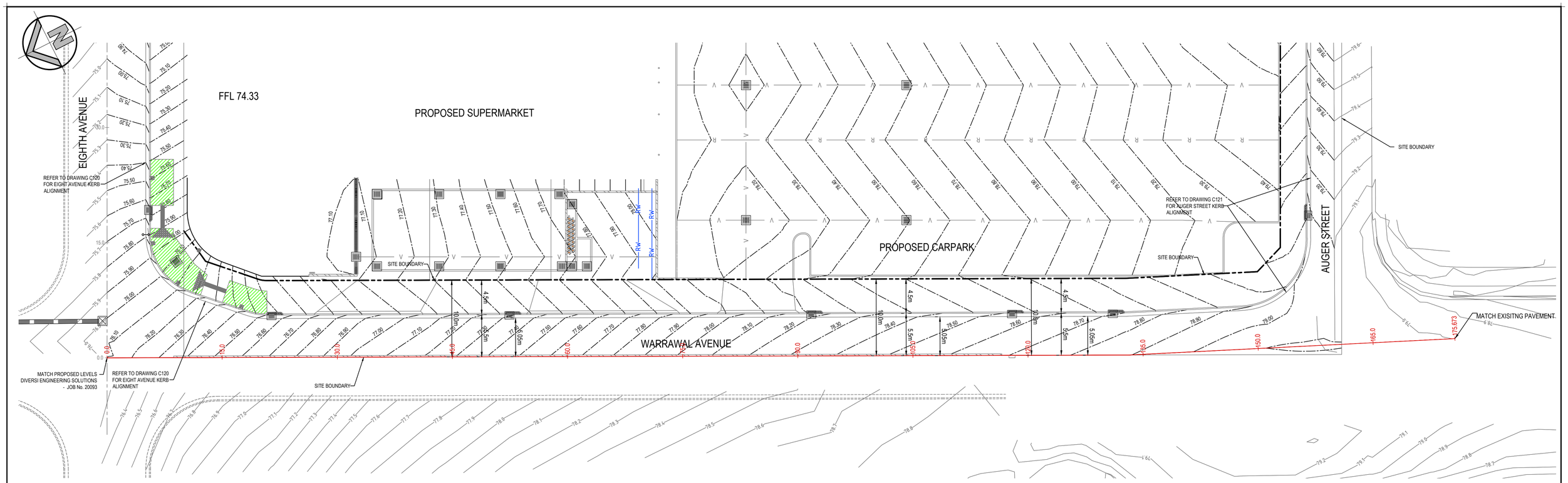
henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: AUGER STREET LONGITUDINAL SECTION AND CHAINAGES PLAN

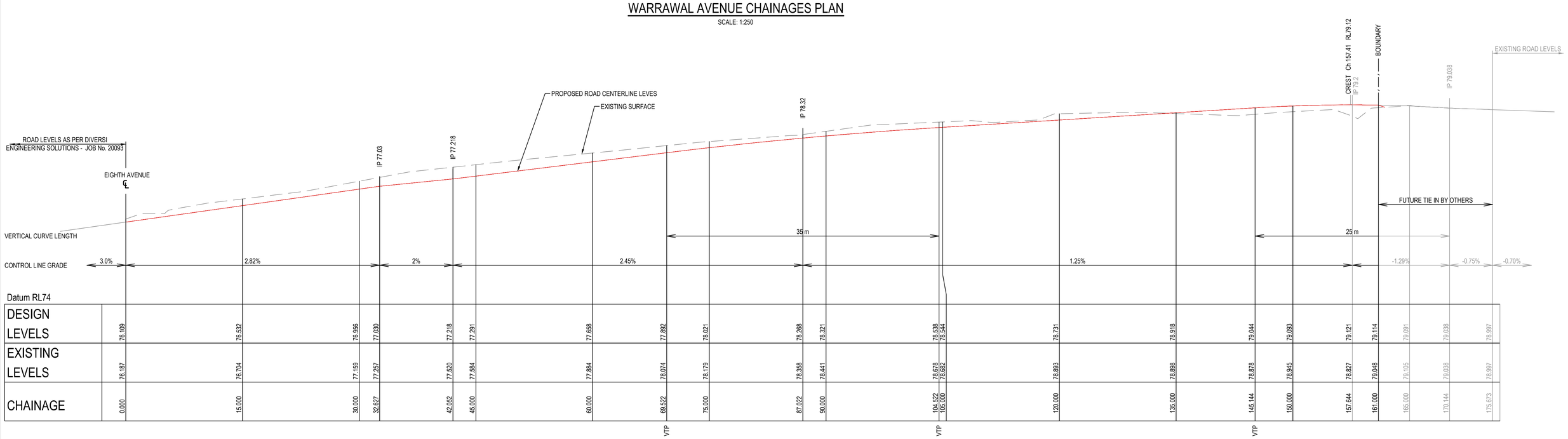
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS SHOWN

Drawing number: 22U24_DA_C121
Revision: 02



WARRAWAL AVENUE CHAINAGES PLAN

SCALE: 1:250



DESIGN LEVELS	76.109	76.532	76.956	77.030	77.218	77.291	77.658	77.892	78.021	78.268	78.321	78.538	78.544	78.731	78.918	79.044	79.093	79.121	79.114	79.091	79.038	78.997
EXISTING LEVELS	76.187	76.704	77.159	77.257	77.520	77.384	77.884	78.074	78.179	78.358	78.441	78.678	78.682	78.893	78.898	78.878	78.945	78.827	79.048	79.105	79.038	78.997
CHAINAGE	0.000	15.000	30.000	32.627	42.052	45.000	60.000	69.522	75.000	87.022	90.000	104.522	105.000	120.000	135.000	145.144	150.000	157.644	161.000	165.000	170.144	175.673

LONGITUDINAL SECTION WARRAWAL AVE - CENTER OF ROAD

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	PS	TR	04.06.2024
02	ISSUED FOR DA ONLY	PS	TR	20.05.2024
01	ISSUED FOR DA ONLY	SC	MM	14.06.2023

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
WARRAWAL AVE LONGITUDINAL SECTION AND CHAINAGES PLAN - SHEET 1 OF 2

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS SHOWN

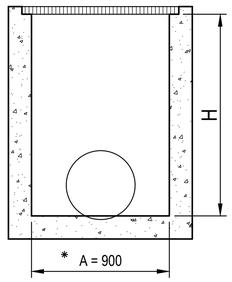
Drawing number: 22U24_DA_C122
Revision: 03

TYPICAL PIT CHAMBER SIZES

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

1. SELECT PIT CHAMBER USING THE STEPS BELOW:
2. SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
3. CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
   CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

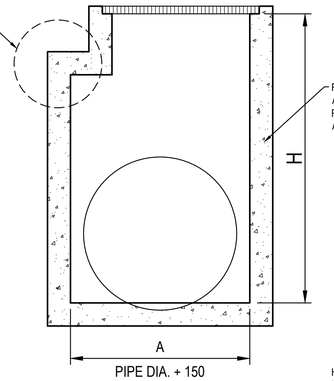
FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



SECTION
NTS

*A = 600 FOR PIPES UP TO 375 DIA.

1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

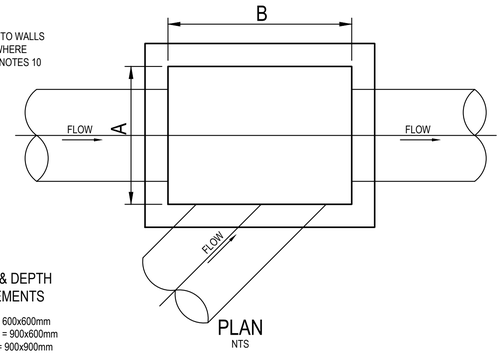


SECTION
NTS

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

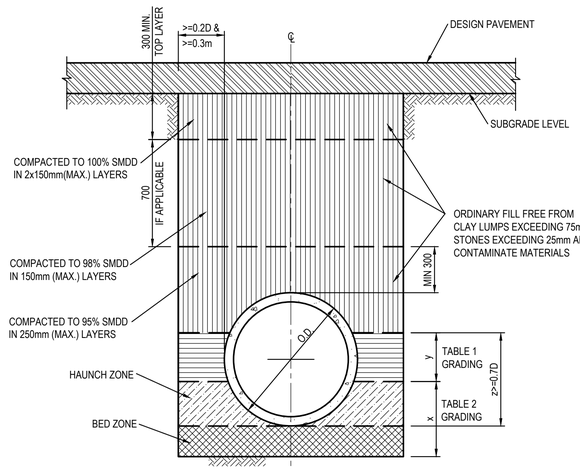
2 PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm



PLAN
NTS

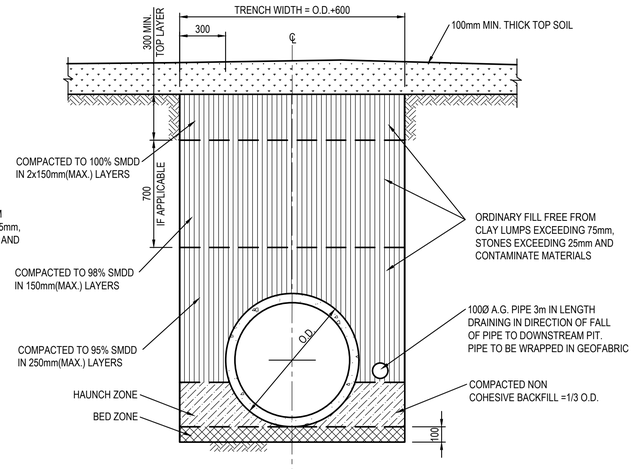
3 PIT CHAMBER FOR SIDE ENTRY ON SKEW



PIPE TRENCH INSTALLATION BENEATH PAVEMENT

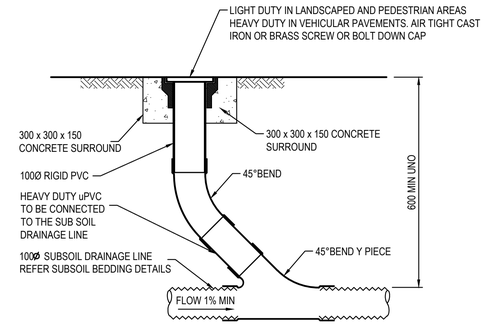
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

NOTE:
TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY



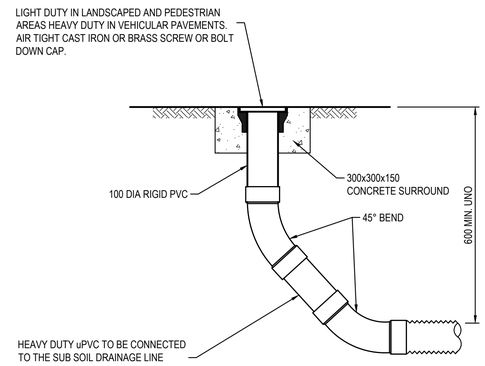
PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS

(H1 & H2 SUPPORT)
SCALE 1:20



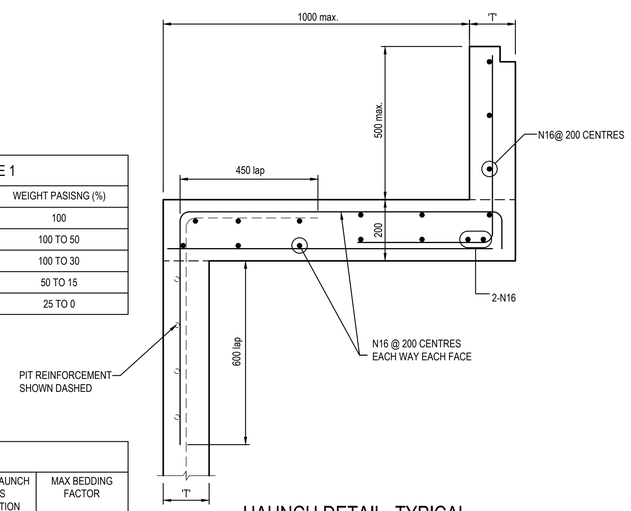
INTERMEDIATE RISER (IR)

SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



FLUSHING POINT (FP)

SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



HAUNCH DETAIL -TYPICAL

SCALE 1:10

PIT LID SCHEDULE

PIT/STRUCTURE NUMBER	DESCRIPTION
B-1 B-2 C-1 C-2 C-3 C-4 F-1 F-2 F-3 G-1 G-2 G-3 G-4 B-4 B-5 B-6 B-7 B-8	PROPOSED 1.8m KERB INLET PIT WITH HINGED 600x600 WITH HEAVY DUTY GRATED LID CLASS 'D' IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL REQUIREMENTS.
D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8 D-9 D-10 D-11 D-12 D-13 E-2	PROPOSED SURFACE INLET PIT WITH HINGED 900x900 MEDIUM DUTY GRATED LID CLASS 'C' IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL REQUIREMENTS.
GD-1 GD-2	PROPOSED 200mm WIDE GRATED DRAIN HEAVY DUTY CLASS 'D' GRATE AND FRAME IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL REQUIREMENTS.
H-1 H-2 H-3 H-4 H-5 H-6 H-7 H-8 H-9 H-10 H-11	OSD ACCESS LID 900x900 HEAVY DUTY LOCKABLE GRATED LID CLASS 'D' IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL REQUIREMENTS.
B-3	PROPOSED RAISED LETTER BOX PIT AS PER LIVERPOOL CITY COUNCIL DRAWING 30013411 - 020 CONCRETE LEVEL SET 150mm ABOVE RAIN GARDEN
E-1	PROPOSED BURIED JUNCTION PIT

PITS TO BE FITTED WITH ENVIROPOD

D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8 D-9 D-10 D-11 D-12 D-13

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f'c=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE .U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
  REFER TYPICAL PIT CHAMBER DETAILS BELOW
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

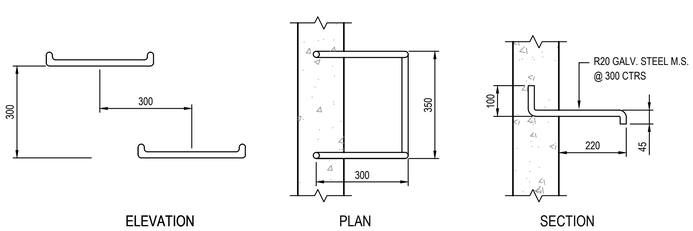
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



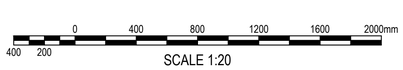
TYPICAL STEP IRON DETAIL

SCALE 1:10

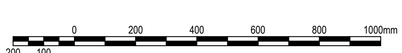
TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

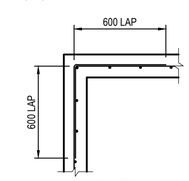
TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0



SCALE 1:20

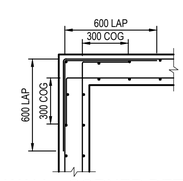


SCALE 1:10



150 WALL - CORNER DETAIL

SCALE 1:20



200 WALL - CORNER DETAIL

SCALE 1:20

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023					

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

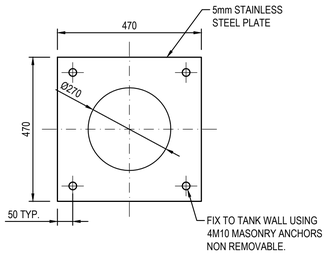
henry&hymas

Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 22U24_DA_C200
Revision: 02



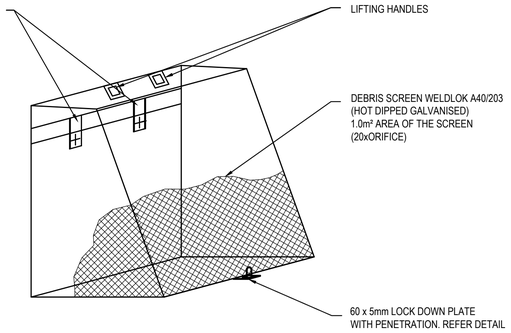
ORIFICE PLATE DETAIL

SCALE 1:10

100 x 16 MOUNTING BAR WITH BRACKETS, SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

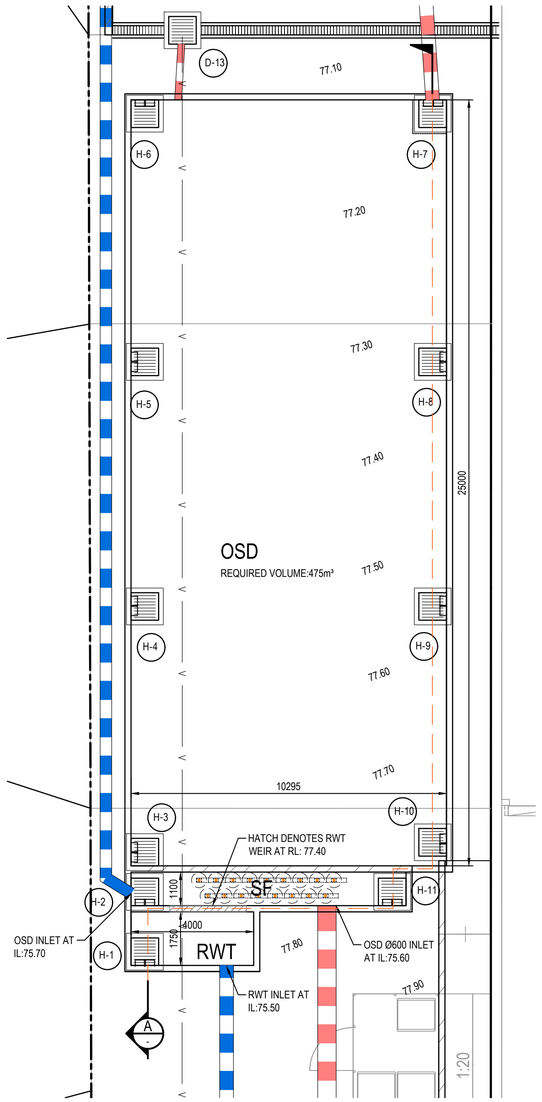
SCREEN TYPE WELDLOK A40/203 IS RECOMENDED FOR ORIFICES LARGER THAN 150mm AND SCREEN AREA 20 x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13

MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 50xTHE ORIFICE AREA REFER BURWOOD COUNCIL AND UPPER PARRAMATTA RIVER CATCHMENT TRUST HANDBOOK.



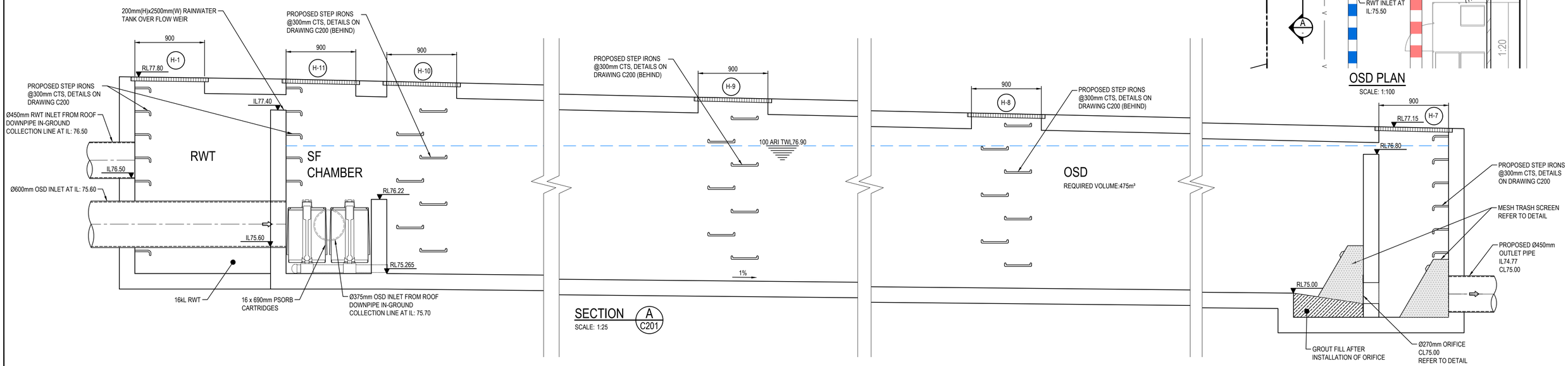
DEBRIS SCREEN DETAIL

NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED



OSD PLAN

SCALE: 1:100



SECTION A C201

SCALE: 1:25

0 2 4 6 8 10m
2 1
SCALE 1:100

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	SC	MM	14.06.2023
01	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023

Client: FABCOT
Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: OSD PLAN, SECTION AND DETAILS

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 22U24_DA_C201
Revision: 02

TOTAL AREA: 18164.10m²

PERVIOUS AREA
AREA: 14288.8m² (78.7%)

IMPERVIOUS AREA
AREA: 1445.7m² (7.9%)

ROAD CATCHMENT
AREA: 2429.6m² (13.4%)
EXCLUDED FROM OSD CALCULATION
AS FORMS PART OF FUTURE COUNCIL ROADS

0 8 16 24 32 40m
8 6 4 2
SCALE 1:400

PRE-DEVELOPMENT STORMWATER CATCHMENT PLAN

SCALE: 1:400

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023

Client
FABCOT

Architect
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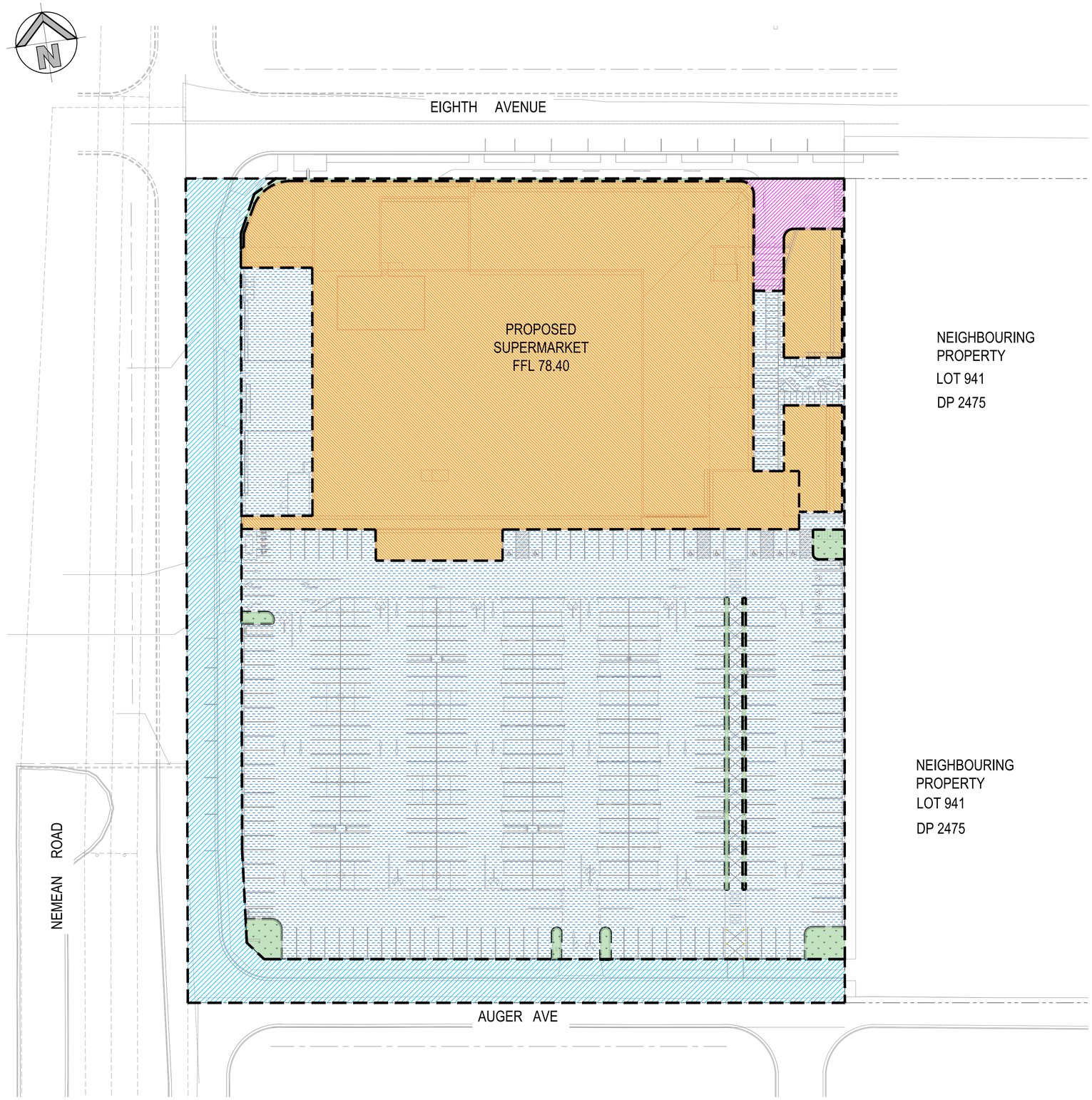
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
PRE-DEVELOPMENT STORMWATER CATCHMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_C250
Revision: 03



POST-DEVELOPMENT STORMWATER CATCHMENT PLAN

SCALE: 1:400

TOTAL AREA: 18164.1m²

PERVIOUS AREA
LANDSCAPE
AREA: 260m² (1.4%)

BYPASS AREA
AREA: 217m² (1.2%)

ROAD CATCHMENT
AREA: 2429.1m² (13.4%)
EXCLUDED FROM CALCULATIONS

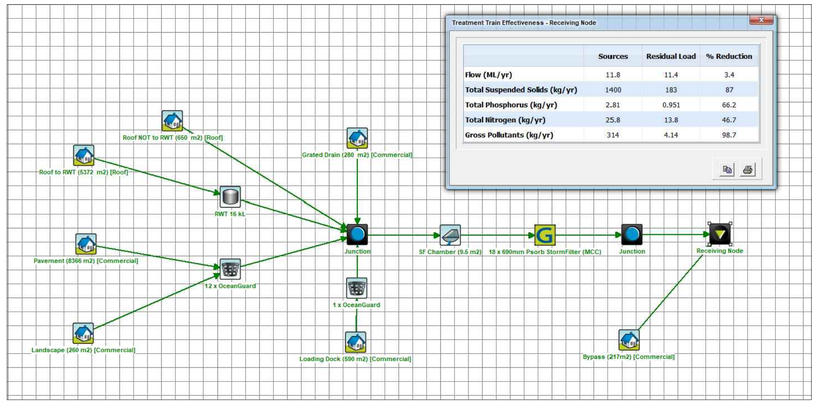
IMPERVIOUS AREA
ROOF
AREA: 6022m² (33.1%)

IMPERVIOUS AREA
PAVING
AREA: 9236m² (50.9%)

TOTAL IMPERVIOUS AREA
17651m² (97.3%)

OSD CALCULATION SUMMARY SHEET

ARI (YEAR)	PRE-DEVELOPED WESTERN CATCHMENT (L/S)	POST-DEVELOPED WHOLE SITE NOT INCLUDING ROADS (L/S)	PRE-DEVELOPED EASTERN CATCHMENT (L/S)	POST-DEVELOPED EASTERN CATCHMENT (L/S)
5	148	145	104	26
10	197	163	139	31
20	247	183	174	37
50	307	197	216	46
100	358	318	252	53



MUSIC RESULTS

SCALE: N.T.S.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024					
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023					
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023					

Client
FABCOT

Architect
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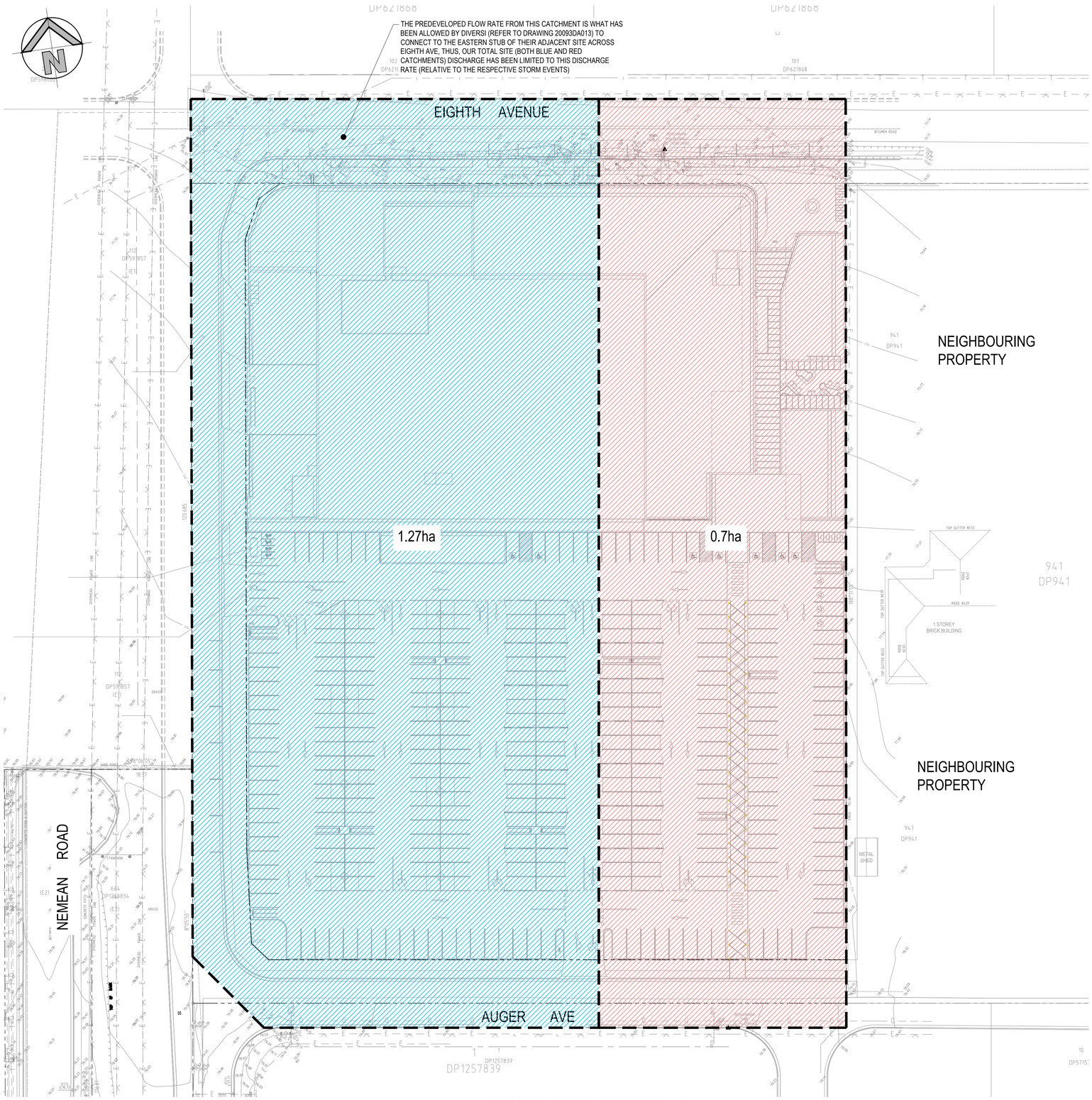
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
POST-DEVELOPMENT STORMWATER CATCHMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_C251
Revision: 04



0 8 16 24 32 40m

8 6 4 2

SCALE 1:400

STORMWATER CATCHMENT PLAN

SCALE: 1:400

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	MP	MM	11.03.2024
03	ISSUED FOR DA ONLY	SC	MM	14.06.2023
02	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023
01	ISSUED FOR PRELIMINARY	SC	MM	12.05.2023

Client
FABCOT

Architect
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DRAWING TO BE PRINTED IN COLOUR

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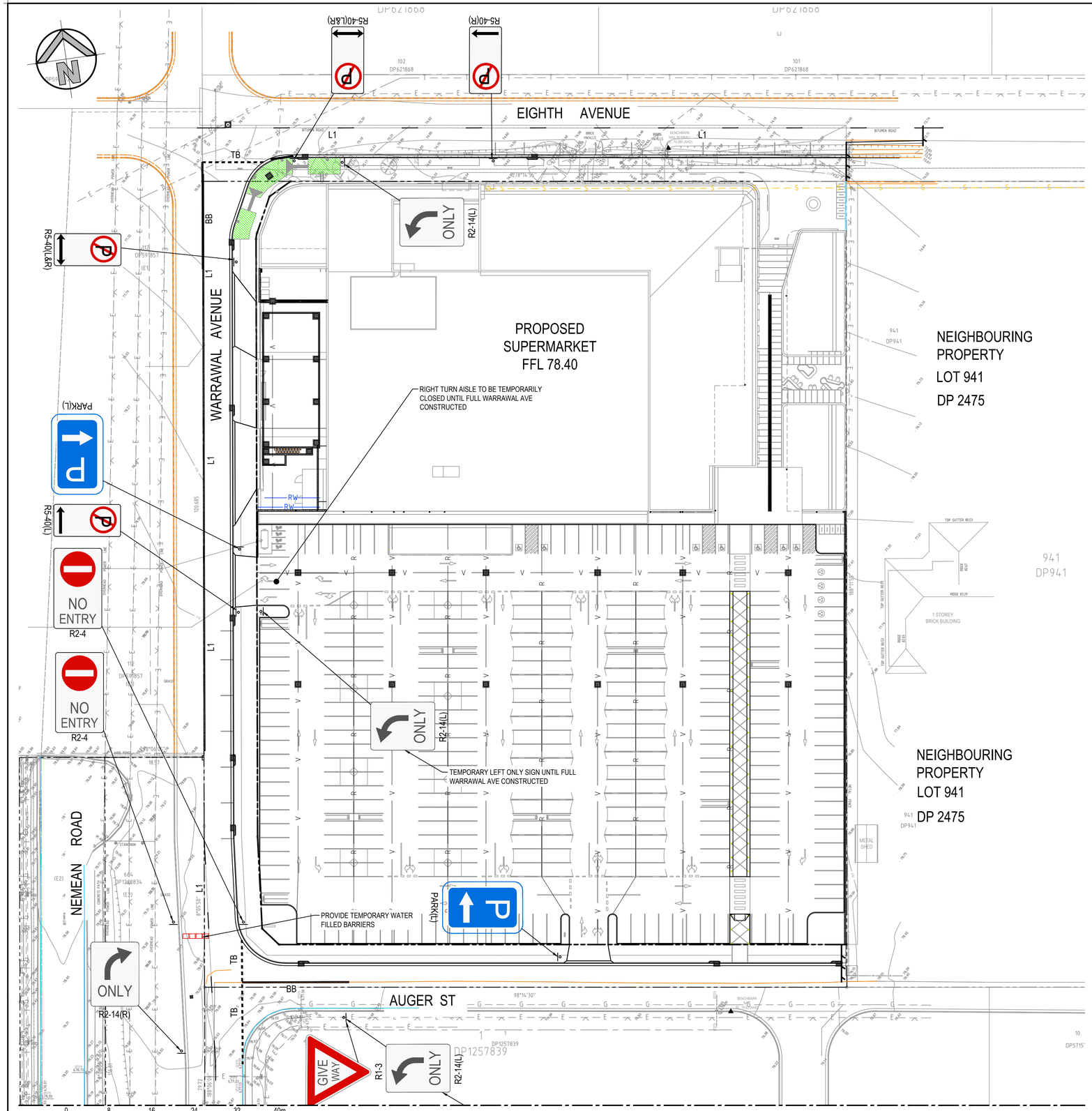
Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
STORMWATER CATCHMENT PLAN

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_C252

Revision: 04



LINEMARKING AND SIGNPOSTING PLAN

SCALE: 1:400

REFER TO DRAWING 22U24_DA_C601 FOR CONTINUATION

LEGEND

- PROPOSED LIMIT OF WORK
- EXISTING BOUNDARY
- TEMPORARY WATER FILLED BARRIERS

ARROW LEGEND

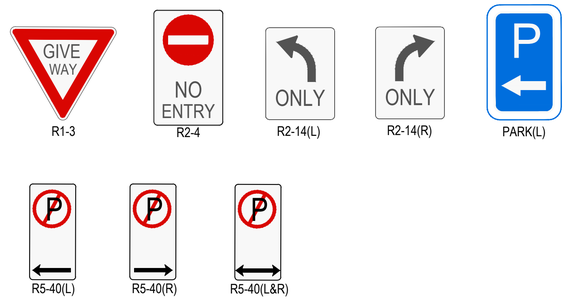
	UA4(L)	COMBINATION STRAIGHT AHEAD AND TURN
	UA1	STRAIGHT AHEAD
	UA3(R)	TURN RIGHT ONLY

NOTE: MINIMUM LENGTH OF ARROWS:
1. STRAIGHT AHEAD AND TURN ARROW = 3.0m
2. COMBINED ARROW = 3.75m

NOTES:

1. E6 EDGE LINE TO BE PLACE ON THE INCLINED FACE OF TYPE MK KERB ALONG CENTRAL MEDIANS
2. PAVEMENT ARROWS IN ACCORDANCE WITH RMS AS1742.2 - FIGURE 5.9
3. THE LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS. AS 2890 AND AS 1742 AND RMS GUIDE "DELINEATION" SECTION 3.
4. LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.
5. PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm TO 0.40mm.
6. PAVEMENT ARROWS IN ACCORDANCE WITH RMS AS1742.2 - FIGURE 5.9
7. ALL PAVEMENT MARKINGS ON THIS DRAWING ARE TO BE THERMOPLASTIC.

SIGNPOSTING LEGEND



LINEMARKING LEGEND

LINE TYPE	USE	DIMENSIONS (m)	COLOUR
BB	MOVEMENTS ACROSS LINES, OVERTAKING, U TURN ARE PROHIBITED	0.025 min 0.05 max, 0.10, 0.3, 0.10	WHITE
TB	GIVE WAY LINE	0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6, 0.30	WHITE
L1	LANE LINE ON MULTI LANE ROADS INCLUDING MOTORWAYS AND DUAL-CARRIAGEWAYS	3 9 3 9 3 9 3 9 3, 0.10	WHITE
L3	LANE LINE ON MULTI LANE ROAD	0.10	WHITE
E4	OUTLINE OF TRAFFIC ISLAND	0.15	WHITE
C1	DEFINES EDGE OF THROUGH CARRIAGEWAY LANE	1 3 1 3 1 3 1 3 1 3, 0.15, 1	WHITE

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	MP	MM	11.03.2024
02	ISSUED FOR DA ONLY	SC	MM	14.06.2023
01	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023

Client: FABCOT
Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

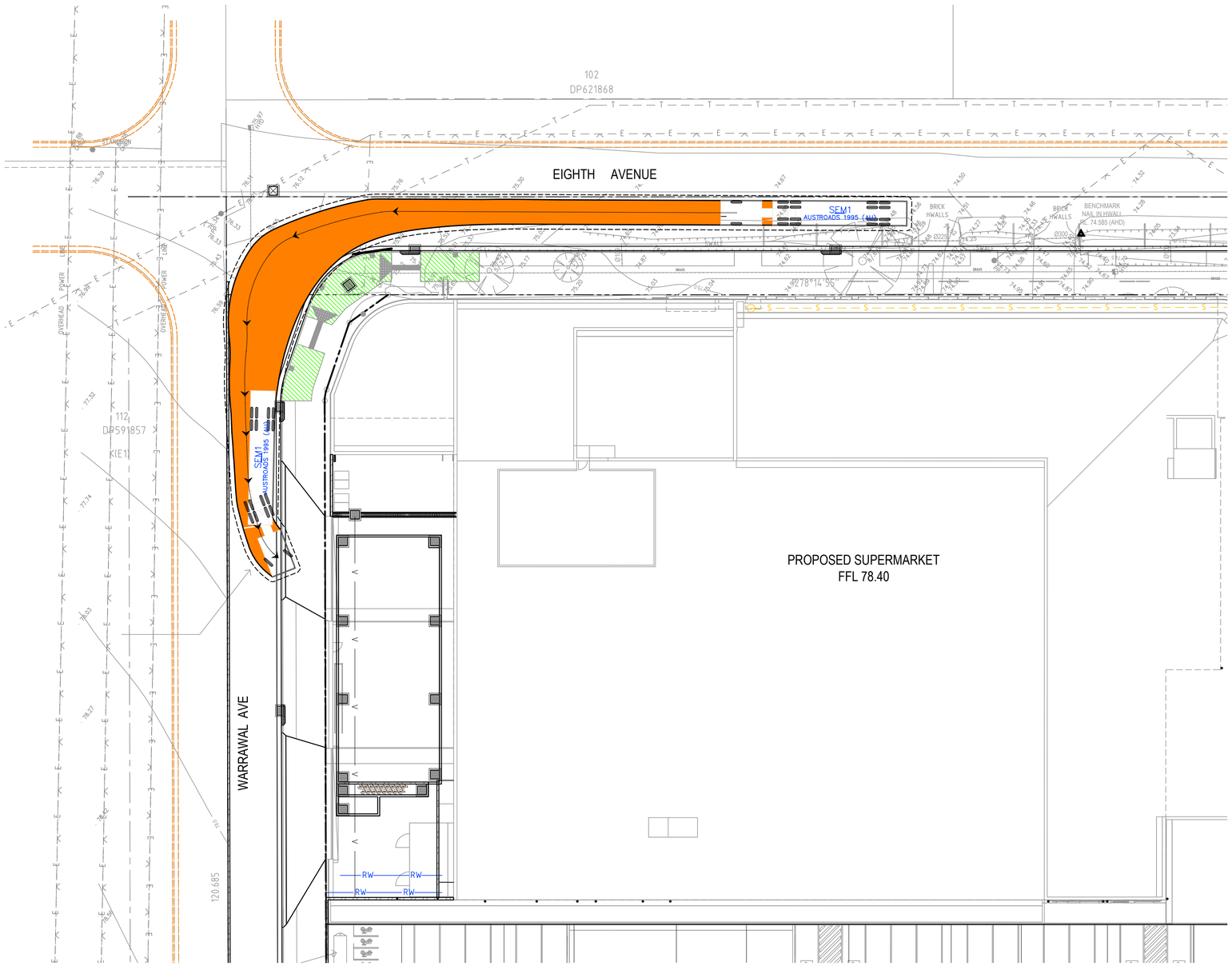
henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: LINEMARKING AND SIGNPOSTING PLAN
SHEET 1 OF 2

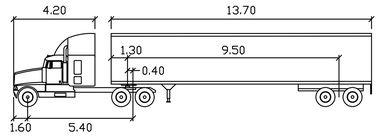
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_C600
Revision: 03



TURNING PATH - EIGHTH AVE

SCALE: 1:200



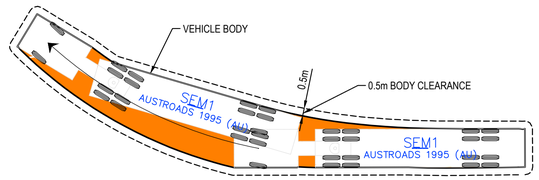
SEM1

meters

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 28.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

19m SEM1 TRUCH PROFILE

N.T.S



TURNING PATH PROFILE

N.T.S

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY LTS

DATUM: A.H.D.

ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	PS	TR	04.06.2024					
03	ISSUED FOR DA ONLY	MP	MM	11.03.2024					
02	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
01	ISSUED FOR PRELIMINARY	SC	MM	17.05.2023					

Client: FABCOT

Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: TURNING PATH
EIGHTH AVE

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_C650

Revision: 04

BULK EARTHWORKS CUT AND FILL PLAN

SCALE: 1:600

DEPTH RANGE Lower_value		Upper_value	Colour
-6	to	-4	Meters
-4	to	-2	Meters
-2	to	-1	Meters
-1	to	-.8	Meters
-.8	to	-.6	Meters
-.6	to	-.4	Meters
-.4	to	-.2	Meters
-.2	to	-.1	Meters
-.1	to	-.05	Meters
-.05	to	.0	Meters
.0	to	.05	Meters
.05	to	.1	Meters
.1	to	.2	Meters
.2	to	.4	Meters
.4	to	.6	Meters
.6	to	.8	Meters
.8	to	1	Meters
1	to	2	Meters
2	to	4	Meters
4	to	6	Meters

EARTHWORKS QUANTITIES

(APPROXIMATE ONLY)

- NOT TO BE USED FOR CONTRACTUAL PURPOSES. TENDERERS TO DETERMINE VOLUMES USING THEIR OWN METHOD OF CALCULATION.
- **ASSUMED SLAB AND PAVEMENT THICKNESS OF 350mm USED FOR CALCULATIONS.**

- EARTHWORKS QUANTITIES -	
TOTAL AREA (2.142 ha)	
CUT	4135m³
FILL	8905m³
EXCESS OF FILL OVER CUT	4770m³
TOPSOIL STRIPPING "100mm" OF 2145m² NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	
EXCAVATION FOR OSD NOT INCLUDED IN CALCULATION	
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION	

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	PS	TR	04.06.2024
03	ISSUED FOR DA ONLY	LC	MM	17.05.2024
02	ISSUED FOR DA ONLY	LC	MM	14.06.2023
01	ISSUED FOR PRELIMINARY	LC	MM	23.05.2023

Client: FABCOT

Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

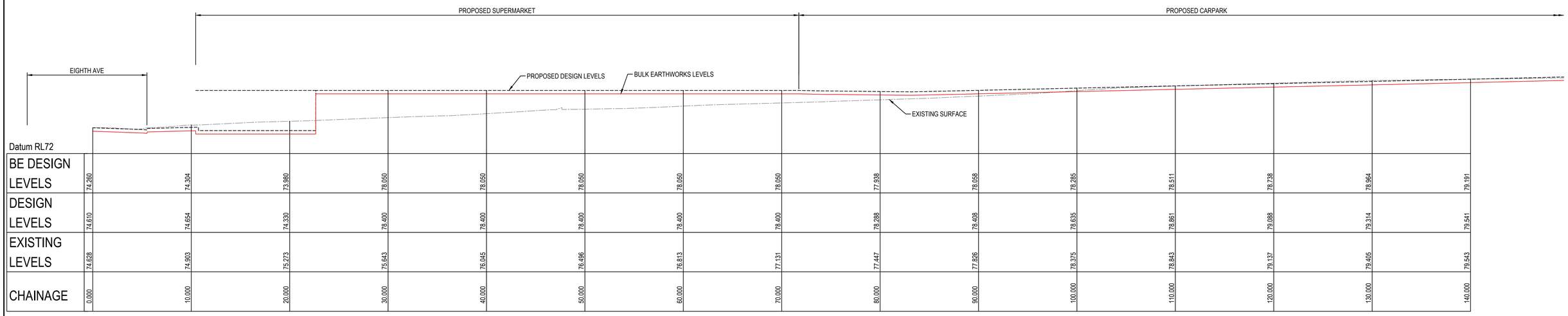
Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: BULK EARTHWORKS CUT AND FILL PLAN

Drawn	Designed	Original issue date
L.Caha	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:600

Drawing number: 22U24_DA_BE01

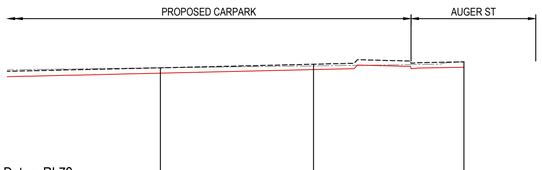
Revision: 04



Datum RL72

CHAINAGE	BE DESIGN LEVELS	DESIGN LEVELS	EXISTING LEVELS
0.000	74.260	74.610	74.628
10.000	74.304	74.654	74.903
20.000	73.980	74.330	75.273
30.000	78.050	78.400	75.643
40.000	78.050	78.400	76.045
50.000	78.050	78.400	76.496
60.000	78.050	78.400	76.813
70.000	78.050	78.400	77.131
80.000	77.938	78.288	77.447
90.000	78.058	78.408	77.826
100.000	78.265	78.635	78.375
110.000	78.511	78.861	78.843
120.000	78.738	79.088	79.137
130.000	78.964	79.314	79.405
140.000	79.191	79.541	79.543

SECTION A BE01
SCALE: H 1:200
V 1:200



Datum RL72

CHAINAGE	BE DESIGN LEVELS	DESIGN LEVELS	EXISTING LEVELS
140.000	79.191	79.541	79.543
150.000	79.426	79.776	79.669
159.824	79.581	79.931	79.931

SECTION A BE01
SCALE: H 1:200
V 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	LC	MM	14.06.2023
01	ISSUED FOR PRELIMINARY	LC	MM	23.05.2023

Client
FABCOT

Architect
CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

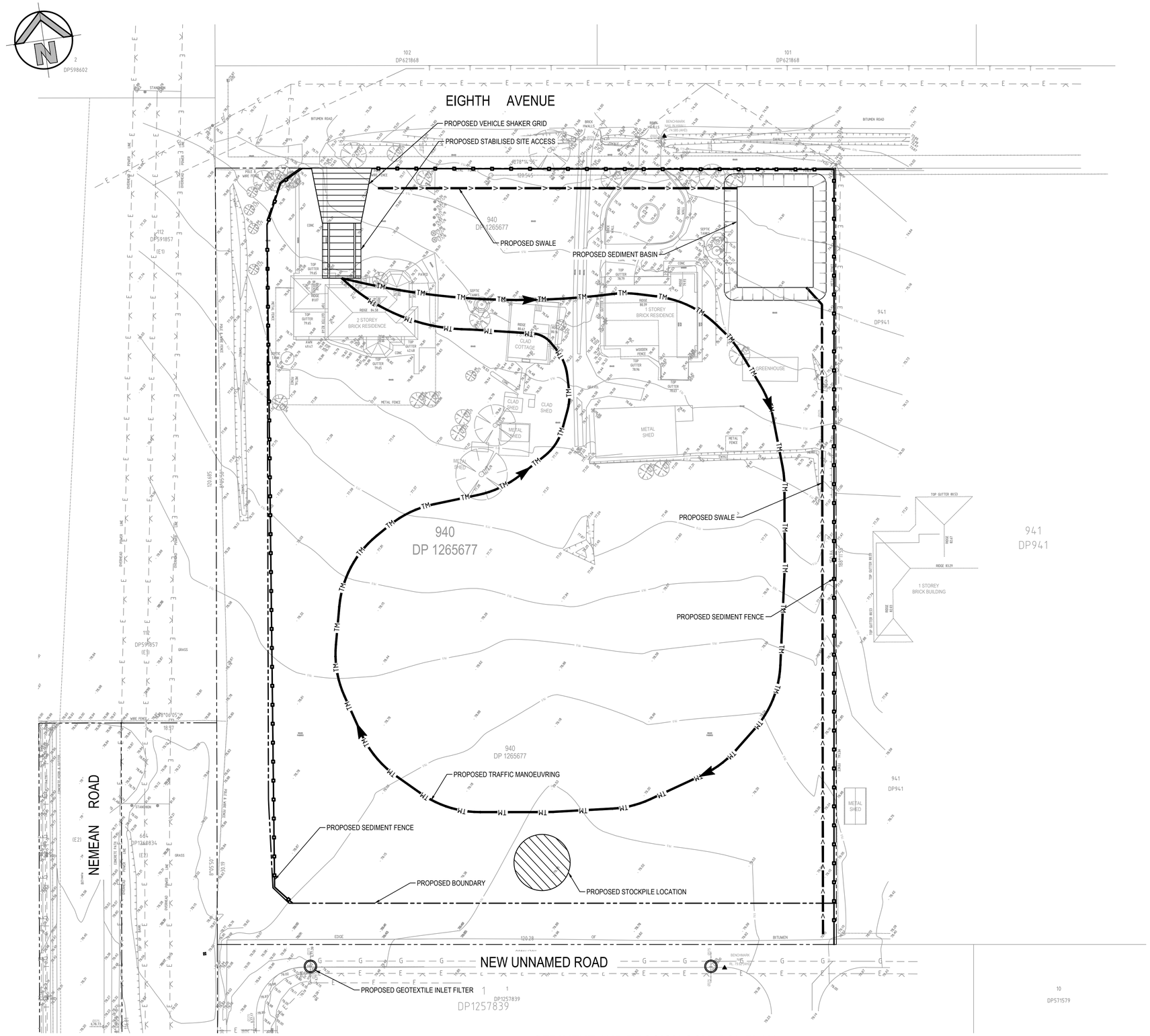
henry&hymas

Project
PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title
BULK EARTHWORKS
SECTIONS

Drawn	Designed	Original issue date
L.Caha	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:200

Drawing number 22U24_DA_BE02
Revision 02



SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:400

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- PROPOSED TRAFFIC MANOEUVRING
- PROPOSED STOCKPILE LOCATION
- PROPOSED GEOTEXTILE INLET FILTER
- PROPOSED MESH AND GRAVEL INLET FILTER
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED SEDIMENT BASIN
- PROPOSED SWALE

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH LIVERPOOL COUNCIL SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILTY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
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Client: FABCOT

Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

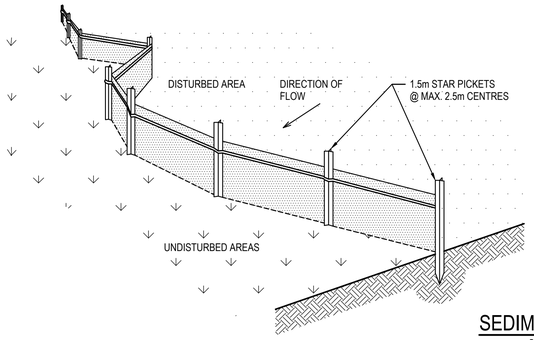
Title: SEDIMENT AND EROSION CONTROL PLAN

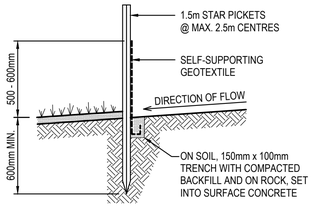
Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number: 22U24_DA_SE01

Revision: 02

PLAN





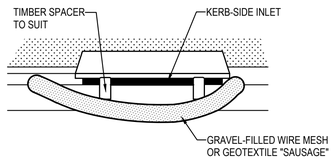
SECTION DETAIL

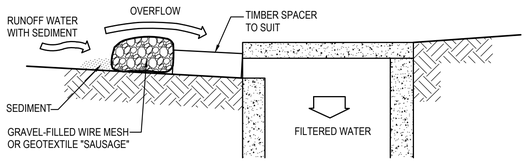
SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



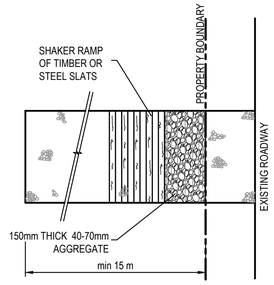


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

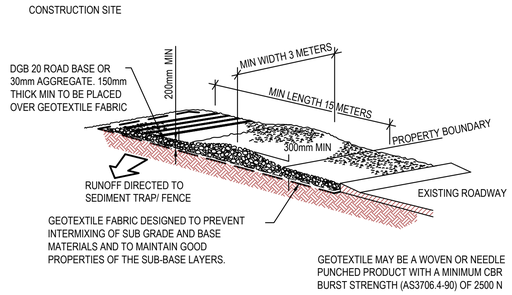
MESH & GRAVEL INLET FILTER

SCALE N.T.S.



PLAN
STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

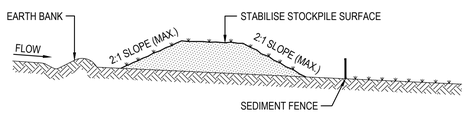


STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY "HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

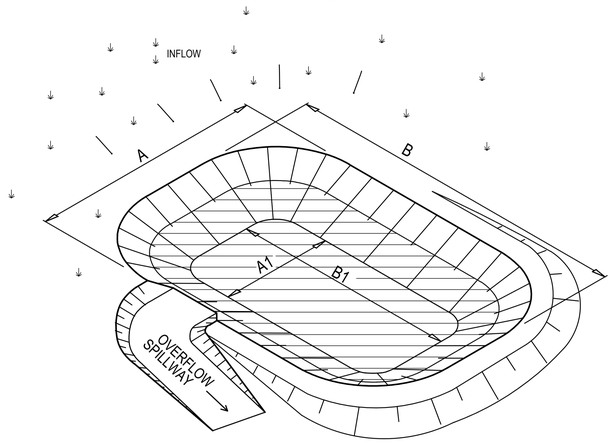


STOCKPILE CONSTRUCTION NOTES:

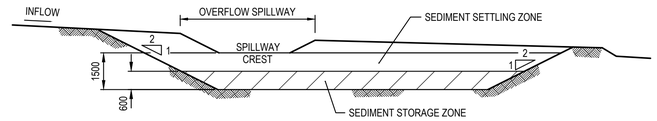
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SCALE N.T.S.



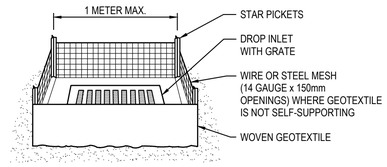
PERSPECTIVE VIEW

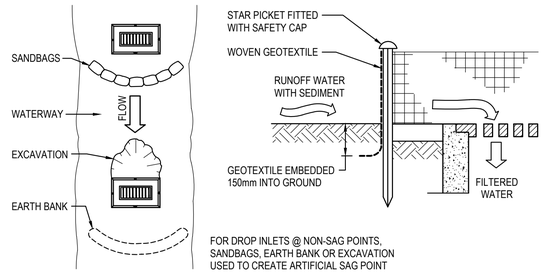


TYPICAL SECTION

TYPE 'D' & 'F' SEDIMENTATION BASIN

N.T.S.





GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LTS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 199387 RL 79.060

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	SC	MM	14.06.2023					
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Client: FABCOT
Architect: CLARKE HOPKINS CLARKE

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DRAWING TO BE PRINTED IN COLOUR

Project: PROPOSED RETAIL DEVELOPMENT
260 EIGHTH AVENUE, AUSTRAL NSW

Title: SEDIMENT AND EROSION CONTROL DETAILS

Drawn	Designed	Original issue date
M.Barrozo	M.Mishevski	APRIL 2023
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	N.T.S.

Drawing number: 22U24_DA_SE02
Revision: 02