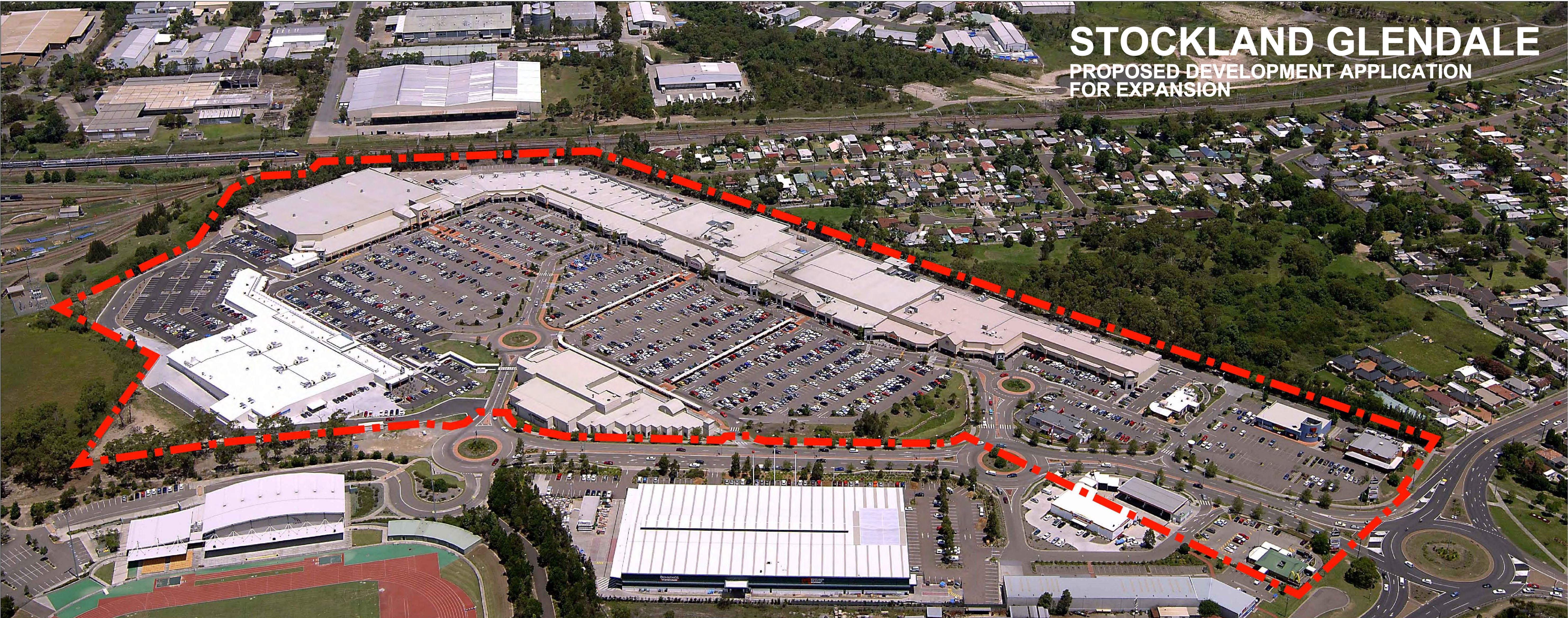
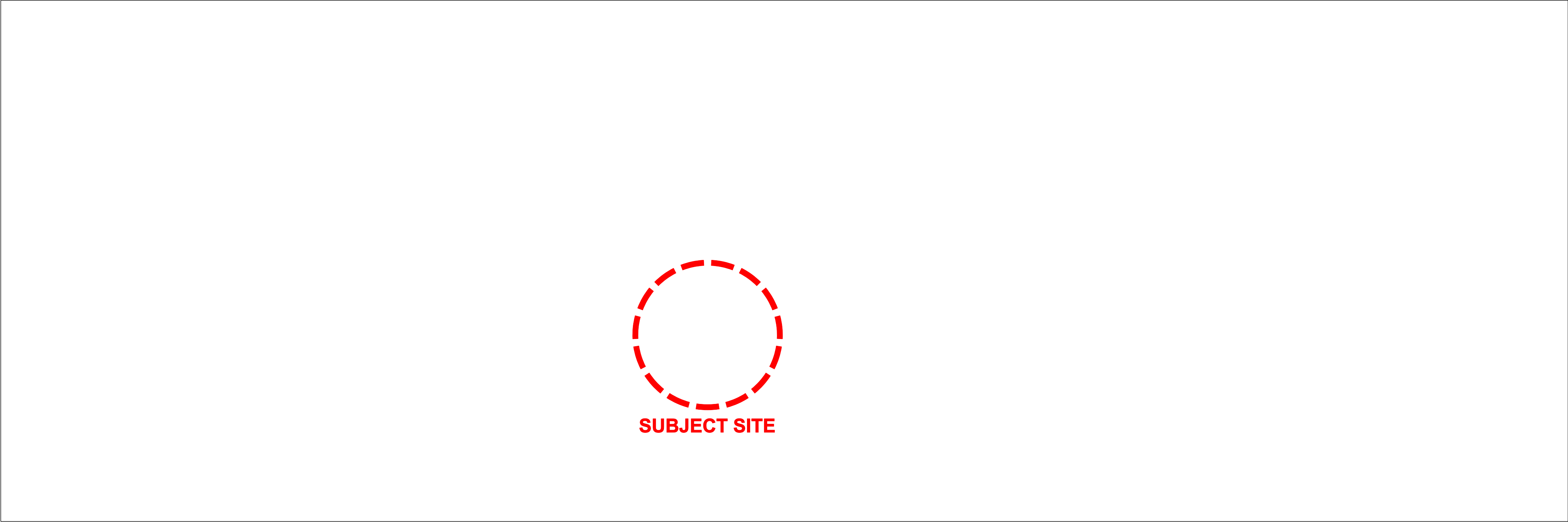




STOCKLAND GLENDALE

PROPOSED DEVELOPMENT APPLICATION FOR EXPANSION

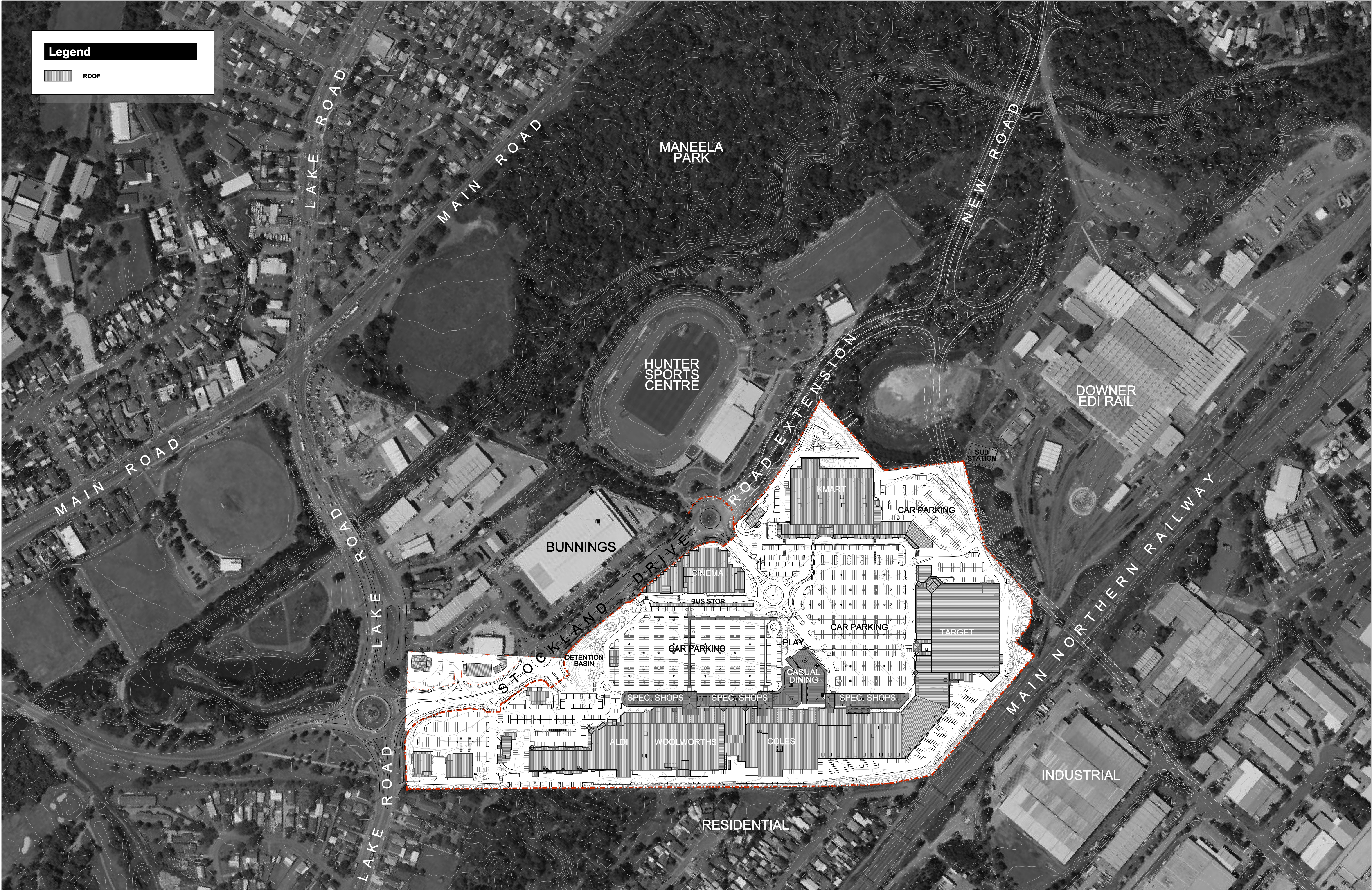


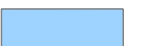
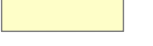
DRAWING SCHEDULE

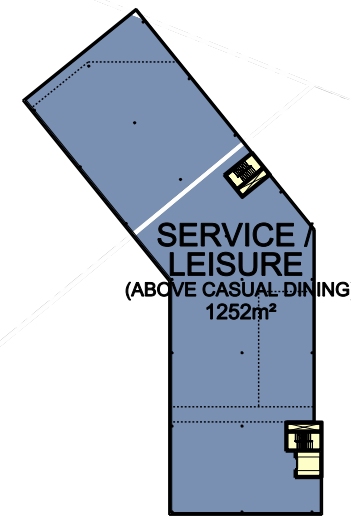
DRAW NO.	TITLE	REVISION	SCALE	SIZE
EXISTING DRAWINGS				
DA0001	Cover, Locality Plan & Drawing Schedule	F	NTS	A1
DA0002	Existing Natural Site & Built Form Context	B	1:5000	A1
DA1001	Existing Site Plan	B	1:2000	A1
DA1002	Existing Ground Floor Plan	B	1:1000	A1
DA1003	Existing Roof Plan	B	1:1000	A1
DA1004	Existing Transport & Pedestrian Diagram	B	1:1000	A1
DA2001	Existing Elevations	A	1:500	A1
PROPOSED DRAWINGS				
DA3001	Proposed Site Plan	G	1:2000	A1
DA3002	Proposed Ground Floor Plan	J	1:1000	A1
DA3003	Proposed Roof Plan	G	1:1000	A1
DA3004	Proposed Transport & Pedestrian Diagram	F	1:1000	A1
DA3005	Proposed Drop-off Zone Locations	D	1:500	A1
DA3006	Landscaping Strategy to Service Lane	D	1:1000	A1
DA3007	Proposed Retail Floor Plan - Stage2	D	1:1000	A1
DA3008	Proposed Stage2 Subdivision Plan	C	1:1000	A1
DA4001	Elevations and Sections 01	D	1:500	A1
DA4002	Detail Elevations and Sections 01 & 02	C	1:200	A1
DA4004	Detail Elevations and Sections 03 & 04	C	1:200	A1
DA4006	Elevation Stage2 - Rear Embankment Parking	C	1:200	A1
DA5001	Materials / Finishes	C	NTS	A1



SUBJECT SITE



Legend		Areas	
	SPECIALTY	EXISTING GLAR (INC. CINEMA - 5,324)	51,109 m ²
	RESTAURANT	INCREASE	
	FOOD SPECIALTY	CASUAL DINING	1,155 m ²
	PAD-SITE	SPECIALTY (INC. KIOSKS)	3,881 m ²
	AMENITIES / STORAGE / SERVICES	SERVICE/LEISURE (4/100m ²)	1,252 m ²
	NEW MALL	TOTAL PROPOSED	6,288 m ²
	EXISTING UNAFFECTED DEVELOPMENT	TOTAL GLAR	57,397 m ²
	NEW LANDSCAPING	Car Parking	
	PAVED AREAS	MOTORBIKE SPACES	43
NOTE: ALL RETAINING WALLS ADJACENT TO RAILWAY LINE ARE LESS THAN 2M IN HEIGHT.		BICYCLE SPACES	76
		DISABILITY PARKING SPACES	51
		ELDERLY CAR SPACES	30
		PARENTS WITH PRAMS SPACES	30
		DROP-OFF ZONES	5
		RMS MINIMUM	
		2/100m ² C. DINING 1.155+1.211 = 2,366	48 CARS
		1/25 CINEMA SEATS (1,900)	76 CARS
		4/100m ² SERVICE/LEISURE (1,252)	51 CARS
		4.1/100m ² REMAINING GLAR (48,455)	1,987 CARS
		TOTAL SPACES REQUIRED:	2,162
		TOTAL PROVIDED	2,259 CARS



First Floor Plan

Ground Floor Plan

STATUS: Section 96(2)

AUTHOR: IO,ML,RR

DATE: 02.08.18

SCALE: 1:1000 @ A1

0m 10m 20m 40m 80m

PROJECT: Stockland GLENDALE

Lake Road, Glendale NSW

TITLE: Proposed Retail Floor Plan - Stage1

PROJECT NUMBER: 07-07-08-GD

DRAWING NUMBER: DA3002-J



Commercial Design Group

Level 29 Castlereagh Street
Sydney NSW 2000
Ph : 02 9035 2000
Fax: 02 8988 2000

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REVISION:

A DA SUBMISSION

B ADDITIONAL SECTION REFERENCES

C INCLUDES AREA CALCULATIONS

D ALTERNATIONS TO PLAN AND RESPONSE TO RFIS

E REVISION TO COUNCIL REQUEST

F REVISION TO COUNCIL REQUEST

G SECTION 96(2) SUBMISSION

H AMENDMENTS TO PEDESTRIAN AND TRAFFIC MOVEMENTS

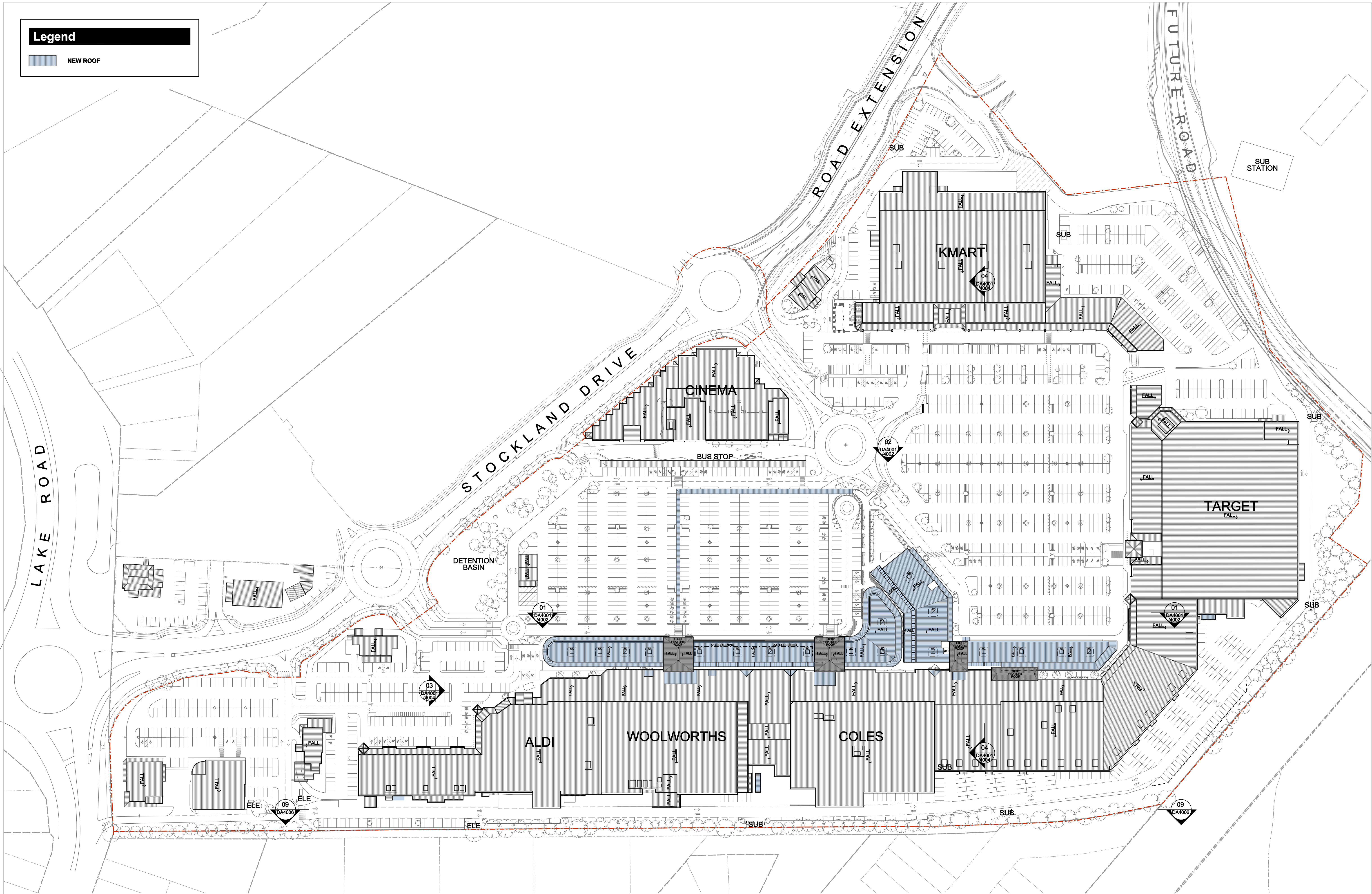
I SECTION 96(2) SUBMISSION

J RESPONSE TO CONDITIONS

15.04.14
30.05.14
03.09.14
01.04.15
09.06.15
30.06.15
18.08.17
18.01.18
28.03.18
02.08.18

Legend

NEW ROOF



Commercial
Design Group

Level 29 Castlereagh Street
Sydney NSW 2000
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REVISION:	
A DA SUBMISSION	15.04.14
B ALTERATIONS TO PLAN AND RESPONSE TO RFIs	01.04.15
C REVISION TO COUNCIL REQUEST	09.06.15
D REVISION TO COUNCIL REQUEST	30.06.15
E SECTION 96(2) SUBMISSION	18.08.17
F SECTION 96(2) SUBMISSION	29.03.18
G RESPONSE TO CONDITIONS	02.08.18

STATUS:

Section 96(2)

AUTHOR:

IO,ML,RR

DATE:

02.08.18

SCALE:

1:1000 @ A1

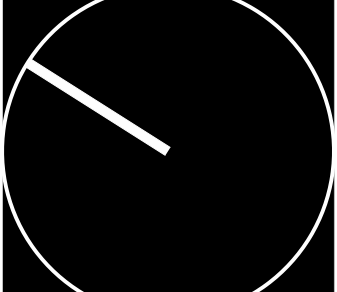
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PROJECT:
Stockland GLENDALE
Lake Road, Glendale NSW

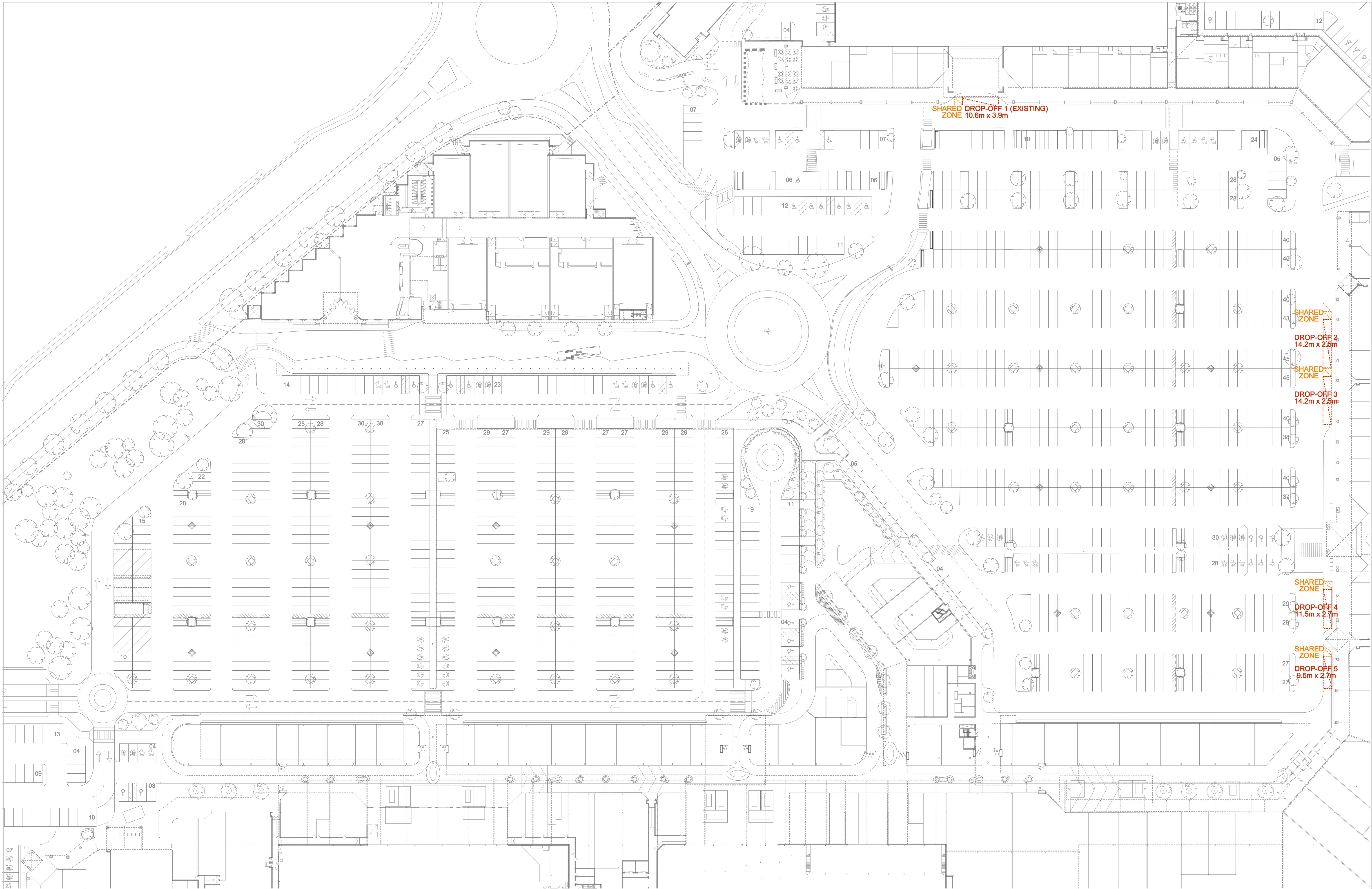
TITLE:
Proposed Roof Plan

PROJECT NUMBER:
07-07-08-GD

DRAWING NUMBER:
DA3003-G









	SPECIALTY
	RESTAURANT
	FOOD SPECIALTY
	PAD-SITE
	AMENITIES / STORAGE / SERVICES
	NEW MALL
	EXISTING UNAFFECTED DEVELOPMENT
	NEW LANDSCAPING
	PAVED AREAS

EXISTING GLAR (INC. CINEMA - 5,324)	51,109 m²
INCREASE	
CASUAL DINING	1,155 m ²
SPIRITUALITY (INC. KIOSKS)	3,981 m ²
SERVICE/LEISURE (4/100m ²)	1,252 m ²
TOTAL PROPOSED	6,288 m²
TOTAL GLAR	57,397 m²
Car Parking	
MOTORBIKE SPACES	73
BICYCLE SPACES	46
DISABILITY PARKING SPACES	51
ELDERLY CAR SPACES	30
PARENTS WITH PRAMS SPACES	50
DROP-OFF ZONES	5
RMS MINIMUM	
2/100m ² C. DINING 1,155+1,211 = 2,366	48 CARS
75 CINEMA SEATS (1,900)	76 CARS
4/100m ² SERVICE/LEISURE (1,252)	51 CARS
4.1/100m ² REMAINING GLAR (48,455)	1,987 CARS
TOTAL SPACES REQUIRED:	2,162
TOTAL PROVIDED	2,324 CARS

Legend

- SPECIALTY
- RESTAURANT
- FOOD SPECIALTY
- PAD-SITE
- AMENITIES / STORAGE / SERVICES
- NEW MALL
- EXISTING UNAFFECTED DEVELOPMENT
- NEW LANDSCAPING
- PAVED AREAS

NOTE: ALL RETAINING WALLS ADJACENT TO RAILWAY LINE ARE LESS THEN 2M IN HEIGHT.

Areas

EXISTING GLAR (INC. CINEMA - 5,324)	51,109 m²
INCREASE	
CASUAL DINING	1,155 m²
SPECIALTY (INC. KIOSKS)	3,881 m²
SERVICE/LEISURE (4/100m²)	1,252 m²
TOTAL PROPOSED	6,288 m²
TOTAL GLAR	57,397 m²

Car Parking

MOTORBIKE SPACES	43
BICYCLE SPACES	76
DISABILITY PARKING SPACES	51
ELDERLY CAR SPACES	30
PARENTS WITH PRAMS SPACES	30
DROP-OFF ZONES	5
RMS MINIMUM	
2/100m² C. DINING 1,155+1,211 = 2,366	48 CARS
1/25 CINEMA SEATS (1,900)	76 CARS
4/100m² SERVICE/LEISURE (1,252)	51 CARS
4.1/100m² REMAINING GLAR (48,455)	1,987 CARS
TOTAL SPACES REQUIRED:	2,162
TOTAL PROVIDED	2,324 CARS

First Floor Plan

SERVICE LEISURE (ABOVE CASUAL DINING) 1252m²

STOCKLAND DRIVE

CINEMA

BUS STOP

EXISTING WOOLWORTHS CAR PARKING

NEW COVERED WALKWAY

DETENTION BASIN LOW POINT +RL 4.00

EXISTING TARGET CAR PARKING

INCREASED K MART CAR PARKING

PLAY GROUND

CASUAL DINING 325m²

CASUAL DINING SERVICES/LEISURE (ABOVE) 830m²

AMENITIES / STORAGE / SERVICES

STAFF CAR PARKING

COLES (EXPANDED) 4561m²

WOOLWORTHS

ALDI

INCREASED PAD-SITE CAR PARKING

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

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STOCKLAND DRIVE

Ground Floor Plan

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE

STOCKLAND DRIVE



Commercial Design Group
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REVISION:
A SECTION 96(2) SUBMISSION
B SECTION 96(2) SUBMISSION
C RESPONSE TO CONDITIONS

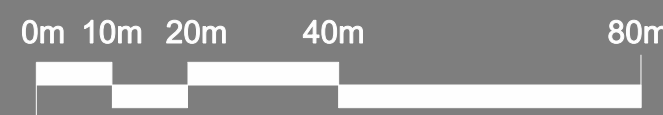
18.01.18
29.03.18
02.08.18

STATUS:
Section 96(2)

AUTHOR:
IO,ML,RR

DATE:
02.08.18

SCALE:
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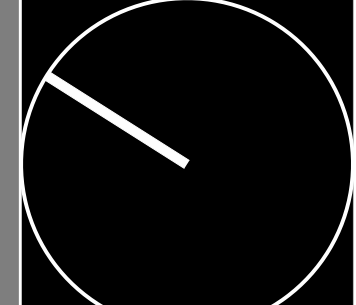


PROJECT:
Stockland GLENDALE
Lake Road, Glendale NSW

TITLE:
Proposed Stage2 Subdivision Plan

PROJECT NUMBER:
07-07-08-GD

DRAWING NUMBER:
DA3008-C



DOCUMENT LOG

Contents	Drawing No.	Issue Date
Coversheet	-	-
Plant Schedule	STK13-SK-01	24/08/17
Site Analysis & Cultural Interpretation	STK13-SK-02	-
Placemaking Strategy	STK13-SK-03	-
Landscape Analysis & Design Strategy	STK13-SK-04	-
Landscape Masterplan - Stage 1	STK13-DA-L01A	22/08/17
Landscape Masterplan - Stage 2	STK13-DA-L01B	22/08/17
Landscape Masterplan - Core Area - 1 of 3	STK13-DA-L02	-
Landscape Masterplan - Core Area - 2 of 3	STK13-DA-L03	-
Landscape Masterplan - Core Area - 3 of 3	STK13-DA-L04	-
Landscape Detail Plan - Pedestrian Meet Point, Eastern	STK13-DA-L05	24/08/17
Landscape Detail Plan - Casual Dining, Central	STK13-DA-L06	24/08/17
Landscape Detail Plan - Pedestrian Meet Point, Western	STK13-DA-L07	24/08/17

SITE LOCATION MAPS

REGIONAL MAP



LOCAL MAP



PLANTING SCHEDULES

ROUNABOUT & ENTRY PLANTING (Total Area = 350m2)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	300mm	2/m2
Vib odo	Viburnum odoratissimum	Sweet Viburnum	300mm	1/m2
GROUNDCOVERS				
Dia cae	Dianella caerulea var. products	Blue Flax Lily	V/cell	3/m2
Fac nod	Facinia nodosa	Knobby Club Rush	V/cell	5/m2
Jun con	Juniperus conferta	Shore Juniper	140mm	2/m2

PARKING ISLAND PLANTING (Total Area = 650m2)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	200mm	2p/m2
Dor yan	Doryanthes excelsa	Gynea Lily	300mm	2p/m2
Gre ser	Grevillea sericea	Pink Spider Flower	200mm	1p/m2
Vib odo	Viburnum odoratissimum	Sweet Viburnum	300mm	1p/m2
Wes fru	Westringia fruticosa 'Smokey'	Smokey Coast Rosemary	200mm	2p/m2
GROUNDCOVERS				
Jun con	Juniperus conferta	Shore Juniper	140mm	2p/m2

PEDESTRIAN 'MEETING POINT' PLANTING (Total Area = 950m2)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	300mm	2p/m2
Gre ser	Grevillea sericea	Pink Spider Flower	200mm	1p/m2
Mac com	Macrozamia communis	Burawang Cycad	400mm	1p/3m2
GROUNDCOVERS				
Ble car	Blechnum cartilagineum	Gristle Fern	200mm	5p/m2
Gar rad	Gardenia radicans	Prostrate Gardenia	200mm	5p/m2
Hib mos	Hibiscus moscheutos spp.	Dwarf Hibiscus	200mm	2p/m2
LIR mus	Liriope muscari 'Evergreen Giant'	Evergreen Giant	200mm	4p/m2

RAISED PLANTER BOXES 'DINING' (Total Area = 300m2)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Syz aus	Syzygium australe 'Tiny Trev'	Dwarf Lilly Pilly	300mm	2p/m2
Rha ind	Rhaphiolepis indica 'Oriental Pearl'	Indian Hawthorn	300mm	3p/m2
GROUNDCOVERS				
Aju rep	Ajuga reptans	Blue Bugle	140mm	8p/m2
Fac nod	Facinia nodosa	Knobby Club Rush	tubestock	5p/m2
Gar rad	Gardenia radicans	Prostrate Gardenia	140mm	5p/m2
Jun sab	Juniper sabina	Savin Juniper	140mm	2p/m2

TREE PIT PLANTING (Total Area = NA)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
GROUNDCOVERS				
Fac nod	Facinia nodosa	Knobby Club Rush	tubestock	-
Jun con	Juniperus conferta	Shore Juniper	140mm	-
Myo par	Myoporum parvifolium	Creeping Boobialla	140mm	-

NOTE: SPACING SHOWN FOR SHRUBS AND GROUNDCOVER REFLECT A MINIMUM DENSITY. FINAL QUANTITIES REQUIRED FOR CONSTRUCTION CERTIFICATE PLANTING PLAN.

OPEN SPACE PLANTING (Total Area = NA)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Pen alo	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	V/cell	-
Wes fru	Westringia fruticosa 'Smokey'	Smokey Coast Rosemary	140mm	-
GROUNDCOVERS				
Dia cae	Dianella caerulea var. protensa	Blue Flax Lily	V/cell	-
Fac nod	Facinia nodosa	Knobby Club Rush	V/cell	-
Myo par	Myoporum parvifolium	Creeping Boobialla	V/cell	-
Tra jas	Trachelospermum jasminoides	Star Jasmine	tubestock	-

REVEGETATION PLANTING (Total Area = 2600m2)				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Aca lon	Acacia longifolia	Golden Wattle	forest tube	2p/5m2
Not lon	Notelaea longifolia forma longifolia	Mock Olive	forest tube	2p/5m2
Bre obl	Breynia oblongifolia	Coffee Bush	forest tube	2p/5m2
GROUNDCOVERS				
Dia cae	Dianella caerulea var. protensa	Blue Flax Lily	V/cell	3p/m2
Hib sca	Hibbertia scandens	Golden Guinea Flower	140mm	2p/5m2
Lom lon	Lomandra longifolia	Mat Rush	V/cell	5p/m2
Myo par	Myoporum parvifolium	Creeping Boobialla	forest tube	3p/m2

STREET TREES				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	QTY
TREES				
	Backhousia citriodora	Lemon Scented Myrtle	200Lt	11
	Buckinghamia celsissima	Ivory Curl Tree	200Lt	10
	Elaeocarpus reticulatus	Blueberry Ash	200Lt	13
	Ficus binnendijkii 'Alii'	Pettite Ficus	100Lt	19
	Fraxinus griffithii	Evergreen Ash	200Lt	11
	Magnolia grandiflora 'Teddy Bear'	Magnolia 'Teddy Bear'	100Lt	6
	Livistona australis	Cabbage Palm	1000Lt	11
	Prunus cerasifera 'Nigra'	Black Plum	400Lt	7
	Pyrus calleryana 'Bradford'	Callery Pear	400Lt	4
	Tristaniopsis laurina	Water Gum	400Lt	5
	Waterhousia floribunda	Weeping Lilly Pilly	400Lt	4

REPLACEMENT/REVEGETATION TREES				
				
Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	QTY
REVEGETATION PLANTING (along South-East Boundary) Total Area = 2600m2				
Acm sml	Acmena smithii	Lilly Pilly	25Lt	1p/30m2
Ban ser	Banksia serrata	Serrated Banksia	forest tube	1p/30m2
Ang cos	Angophora costata	Smooth-barked Apple	25Lt	31
Cor cit	Corymbia gummifera	Red Bloodwood	25Lt	31
Cor mac	Corymbia maculata	Spotted Gum	25Lt	32

Landscape Legend

- 1 New Primary semi-internal mall streetscape
- 2 New Primary 'Casual Dining' Boulevard Axis
- 3 New playground
- 4 New vehicular western entry axis
- 5 Upgraded Secondary Pedestrian Meeting Point (west)
- 6 Upgraded Pedestrian Meeting Point (east)
- 7 Retain Existing Trees
- 8 Existing Tree Removal (refer 'Zone 1' arborist report)
- 9 Integrated 'Green Screen' & Lifestyle Signage
- 10 Landscape border planting to building facade

Tree & Materials Legend

Planting (Existing)	Backhousia citrifolia	Buckinghamia celsissima
Planting (Proposed)	Prunus nigra	Magnolia grandiflora 'Teddy Bear'
Revegetation Planting	Pyrus calleryana 'Bradford'	Elaeocarpus reticulatus
Hardscape (Existing)	Tristaniopsis laurina	Livistona australia
Hardscape (Proposed)	Waterhousea floribunda	Existing Trees to be retained
Dining Areas	Fraxinus griffithii	Native Revegetation Planting
	Ficus binnendijkii 'Alii'	

Refer Arboricultural Impact Report (Treeology, 20.03.15)



Landscape Legend

- 1 Carpark realignment and landscape works to accommodate new road
- 2 Carpark realignment for additional staff parking
- 3 Existing Tree Removal (refer arborist report)
- 4 Revegetation works

Tree & Materials Legend

- | | | | |
|--|-----------------------------|--|-----------------------------------|
| | Planting (Existing) | | Buckinghamia celissima |
| | Planting (Proposed) | | Magnolia grandiflora 'Teddy Bear' |
| | Revegetation Planting | | Elaeocarpus reticulatus |
| | Hardscape (Existing) | | Livistona australis |
| | Hardscape (Proposed) | | Existing Trees to be retained |
| | Dining Areas | | Native Revegetation Planting |
| | Backhousia citrifolia | | Ficus binnendijkii 'Alii' |
| | Prunus nigra | | |
| | Pyrus calleryana 'Bradford' | | |
| | Tristanopsis laurina | | |
| | Waterhousea floribunda | | |
| | Fraxinus griffithii | | |

Refer Arboricultural Impact Report (Treeology, 20.03.15)

Stage 2 (total) Tree Calculations

No. of <u>existing</u> trees (internal carpark)	265
No of trees <u>removed</u> (from internal carpark)	117
No. of <u>proposed</u> trees (to internal carpark)	97
No. of <u>existing</u> trees (to south/east boundary)	148
No of trees removed (from south/east boundary)	46
No. of <u>proposed</u> replacement trees @ 2:1 (to south/east boundary)	94
No. of new trees in hardscape area (requiring tree vaults)	NA

Tree Removal Strategy:

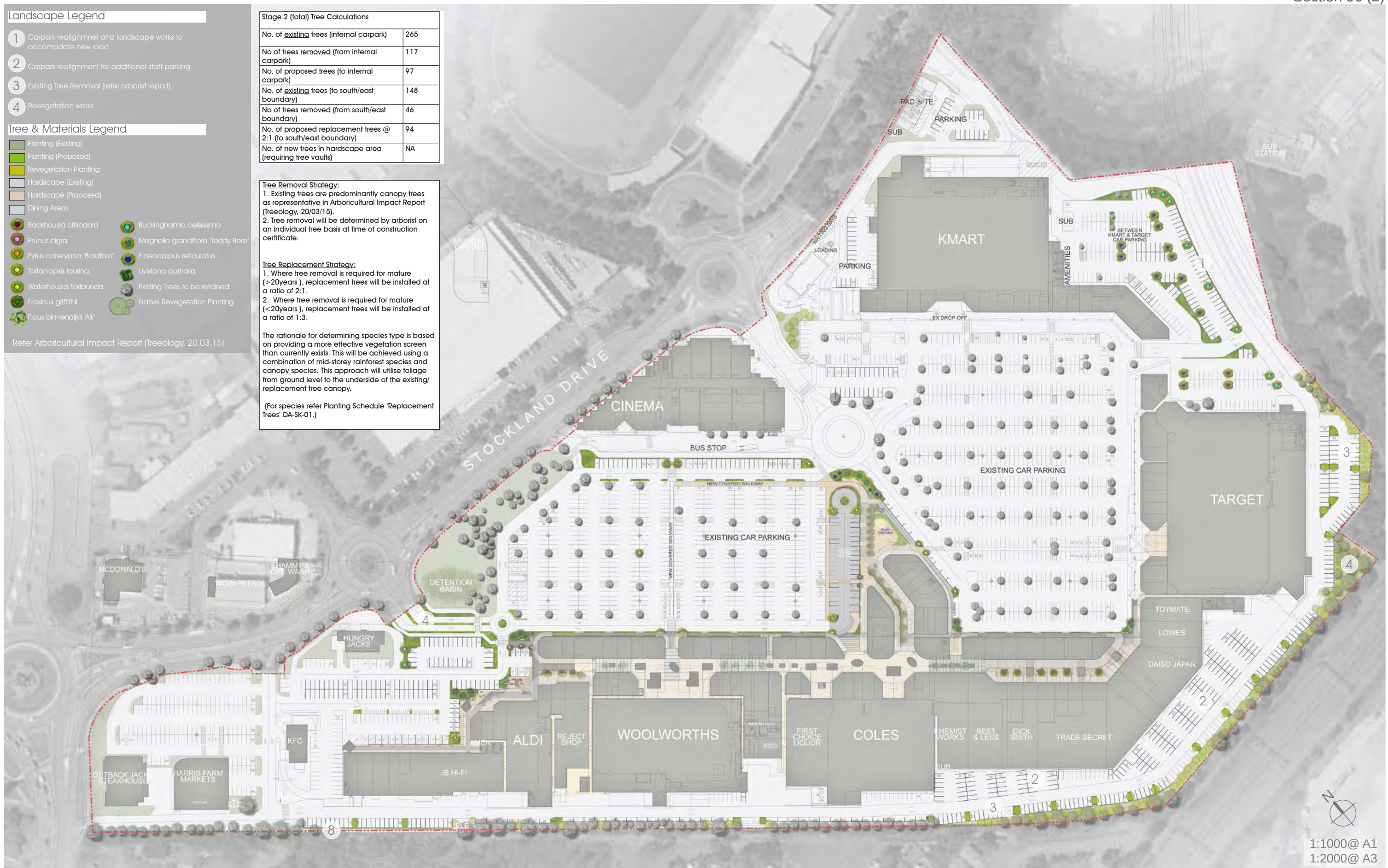
1. Existing trees are predominantly canopy trees as representative in Arboricultural Impact Report (treeology, 20/03/15).
2. Tree removal will be determined by arborist on an individual tree basis at time of construction certificate.

Tree Replacement Strategy:

1. Where tree removal is required for mature (>20years), replacement trees will be installed at a ratio of 2:1.
2. Where tree removal is required for mature (<20years), replacement trees will be installed at a ratio of 1:3.

The rationale for determining species type is based on providing a more effective vegetation screen than currently exists. This will be achieved using a combination of mid-storey rainforest species and canopy species. This approach will utilise foliage from ground level to the underside of the existing/ replacement tree canopy.

(For species refer Planting Schedule 'Replacement Trees' DA-SK-01.)



1:1000@ A1
1:2000@ A3



DETAIL PLAN - 1



1:150@ A1
1:300@ A3



SECTION A

1:100@ A1
1:200@ A3

Character
Imagery

Directional Cues



Online/Offline Spaces

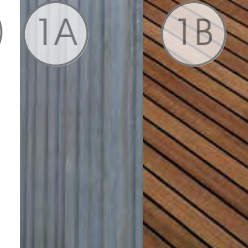


Local Character & Stories



1
Materiality

Boardwalk Texture
(concrete & timber)



Field Paving



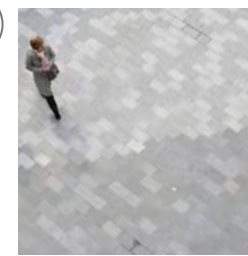
Space Saving Solutions



6
Bike
Parking

2
Water
Reference

Ephemeral Water Pattern



'Informal Play' Elements



Textural Detail



Integrated Story Telling

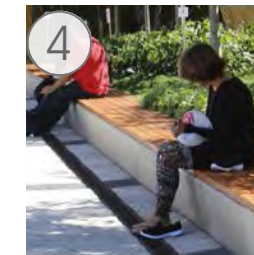


3
Integral
Seating

Robust Integrated Seating - Fixed

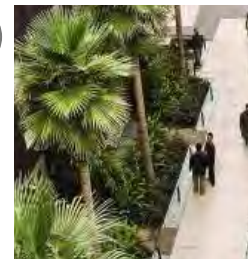


Integrate Raised Planters & Seating

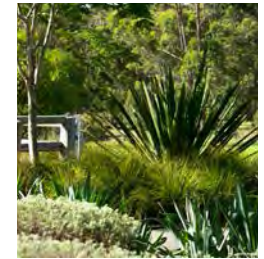


5
Living
Elements

Structure For Intimate Spaces Trees For Scale & Comfort



Hardy Coastal Species

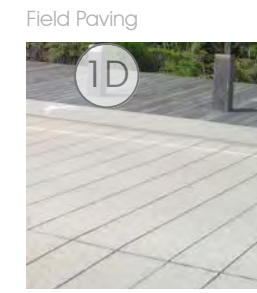
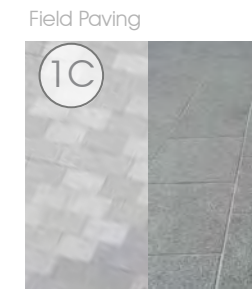




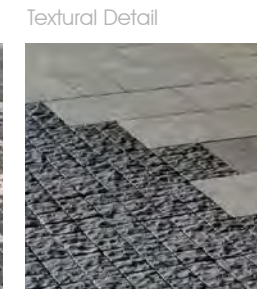
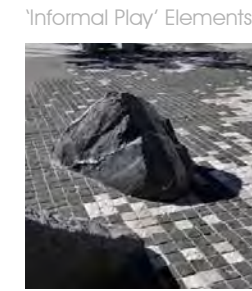
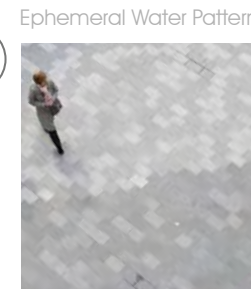
Character Imagery



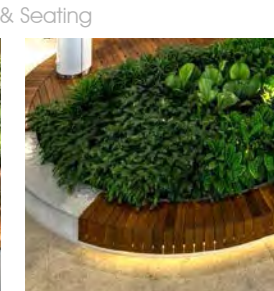
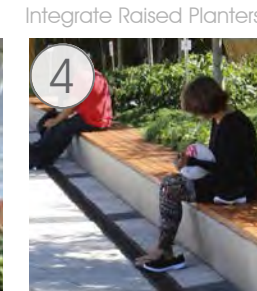
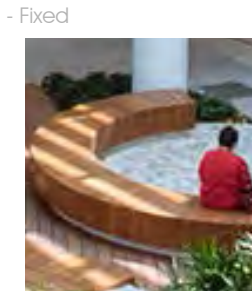
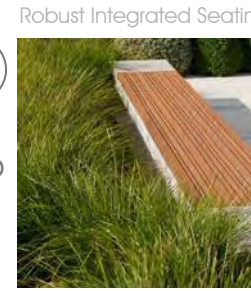
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Materiality



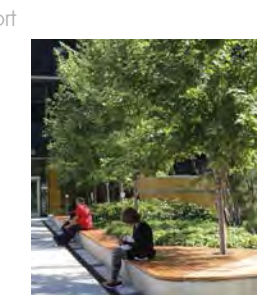
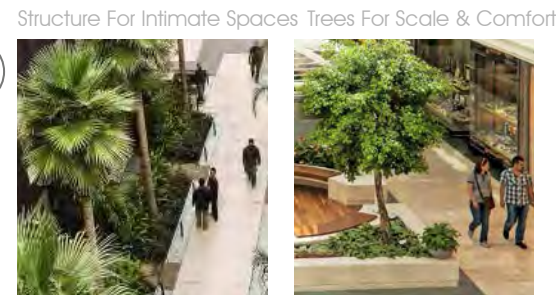
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Water Reference



3
Integral Seating



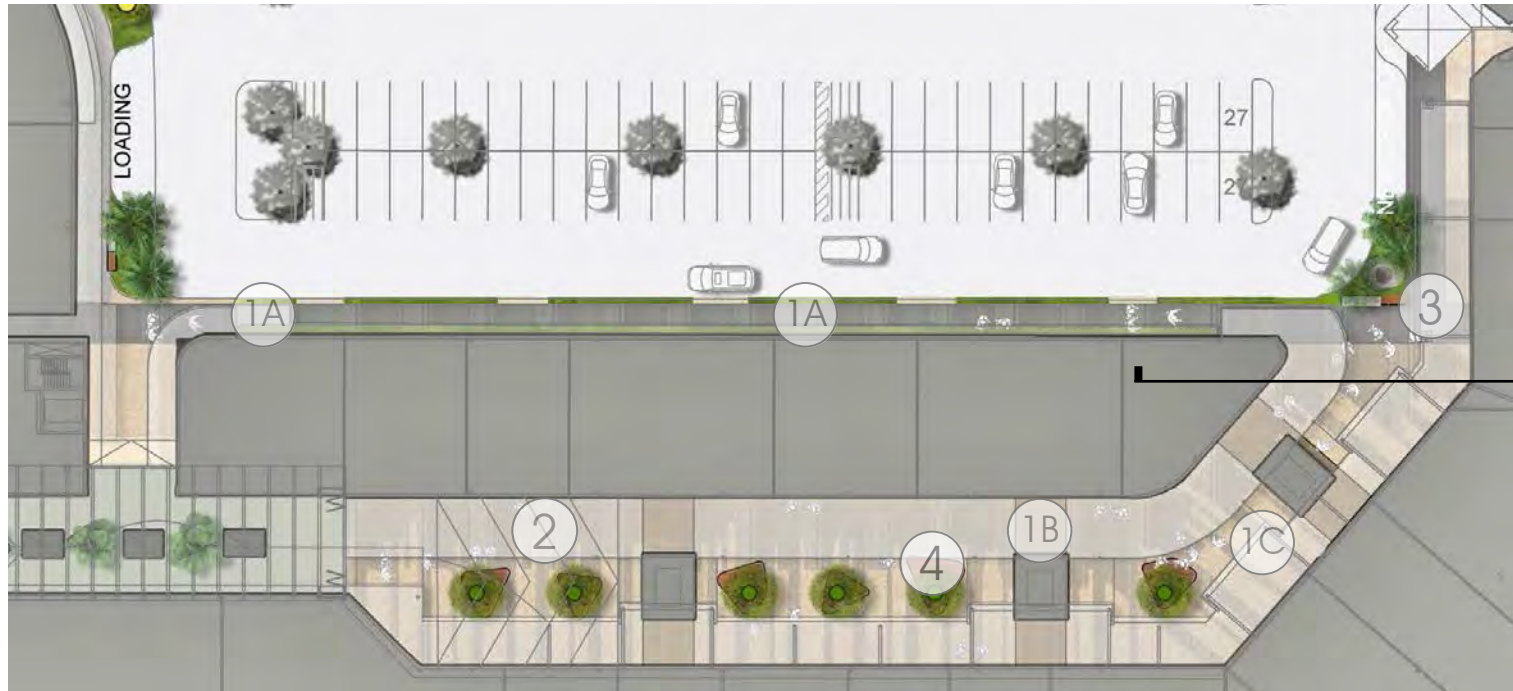
5
Living Elements



DETAIL PLAN - 2



1:100@ A1
1:200@A3



DETAIL PLAN - 3

1:300@ A1
1:600@ A3



SECTION C

1:50@ A1
1:100@ A3

Character
Imagery

Directional Cues



Online/Offline Spaces



Local Character & Stories



1
Materiality

Boardwalk Texture
(concrete & timber)



Field Paving



Field Paving

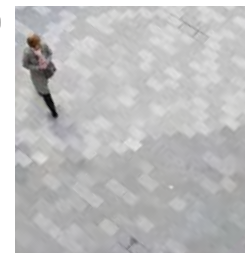


Natural Concrete
(with feature aggregate)



2
Water
Reference

Ephemeral Water Pattern



'Informal Play' Elements



Textural Detail



Integrated Story Telling



3
Integral
Seating

Robust Integrated Seating - Fixed

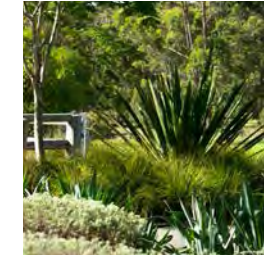
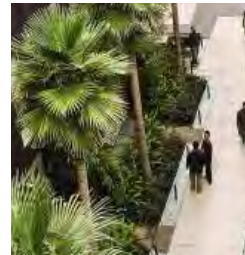


Integrate Raised Planters & Seating



5
Living
Elements

Structure For Intimate Spaces Trees For Scale & Comfort



Hardy Coastal Species

PROPOSED DEVELOPMENT

STOCKLAND GLENDALE

LAKE ROAD, GLENDALE, NSW 2285

- CIVIL DRAWINGS -



DRAWING SCHEDULE

DRG No.	DRAWING TITLE
C00DA	COVER SHEET AND DRAWING INDEX
C10DA	EROSION AND SEDIMENT CONTROL PLAN
C20DA	SHEET LAYOUT AND SITE PLAN
C21DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 1
C22DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 2
C23DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 3
C24DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 3
C25DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 4
C26DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 5
C27DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 6
C28DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 7
C29DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 9
C30DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 10
C31DA	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 11
C40DA	DETENTION BASIN AND RETAINING WALL DETAILS

VERIFIER:

JOB MANAGER:

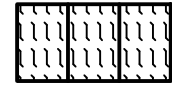
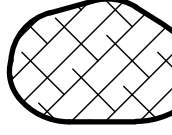
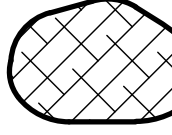
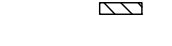
DESIGNED: C SMITH

DRAWN: A GRIFFIN

REVISION		DESCRIPTION				ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT		ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.		 Northrop Newcastle Suite 4, 215 Pacific Hwy, Charlestown NSW 2290 P.O. Box 180, Charlestown NSW 2290 Ph (02) 4943 1777 Fax (02) 4943 1577 Email newcastle@northrop.com.au ABN 81 094 433 100		PROJECT	STOCKLAND GLENDALE Lake Road, Glendale, N.S.W		DRAWING TITLE		JOB NUMBER							
A		ISSUED FOR S96 APPROVAL				AG		CS	18.08.17										COVER SHEET AND DRAWING INDEX		NL130382								
																					DRAWING NUMBER								
																					REVISION								
																					C00DA								
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DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED										THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.										DRAWING SHEET SIZE = A1									

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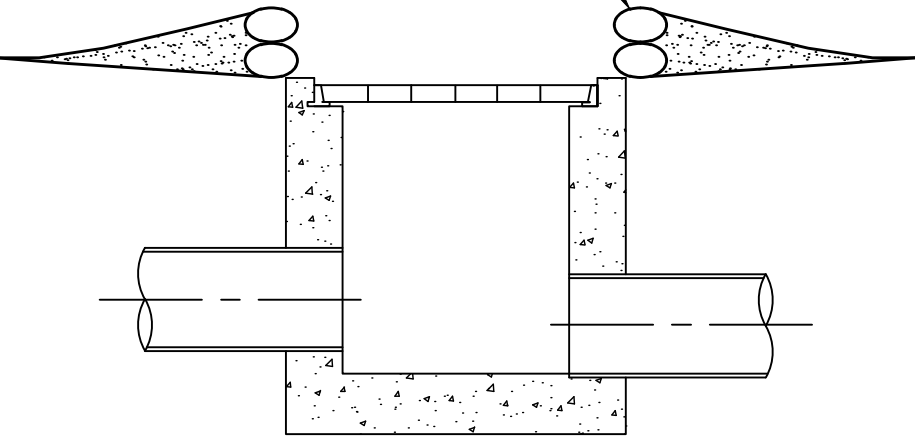
LEGEND

-  DENOTES SITE & SEDIMENT CONTROL FENCE.
-  DENOTES STABILISED SITE ACCESS.
-  DENOTES PROPOSED STORMWATER PIT.
-  DENOTES PROPOSED STOCKPILE LOCATION.
-  DENOTES SANDBAG OR GEOTEXTILE SOCK FILLED WITH NO FINES GRAVEL, PLACED IN INVERT OF GUTTER.

THE CONTRACTOR SHALL ENSURE COUNCIL ASSETS AND THE UTILITIES ARE PROTECTED AT ALL TIMES. ANY AND ALL DAMAGES TO COUNCIL ASSETS AND/OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SPECIFICATION OF COUNCIL AND THE UTILITIES AUTHORITY AND AT NO COST TO THE PRINCIPAL OR NORTHPROP CONSULTING ENGINEERS.

STAGING CONTRACTOR TO UNDERTAKE WORK IN STAGES TO MINIMISE DISTURBED AREA. NOMINATE DESIGNATED STOCKPILE & WASTE DISPOSAL AREA FOR EACH SITE.

LAY 2 LAYERS OF SAND BAGS WRAPPED IN BIDIM A24 GEOTEXTILE. FILL BEHIND SAND BAGS WITH 50 - 75mmØ CRUSHED STONE.



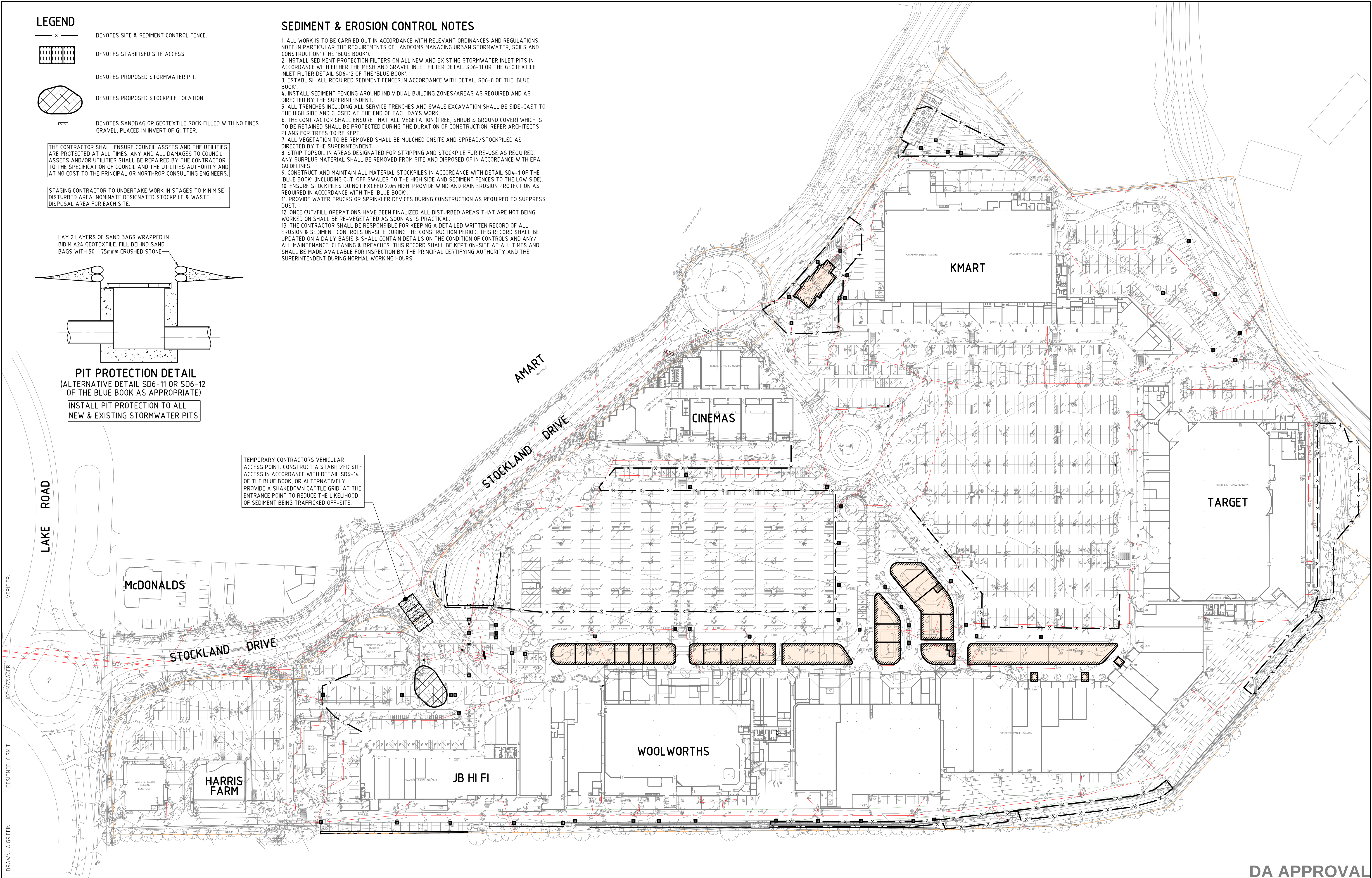
PIT PROTECTION DETAIL
(ALTERNATIVE DETAIL SD6-11 OR SD6-12 OF THE BLUE BOOK AS APPROPRIATE)

INSTALL PIT PROTECTION TO ALL NEW & EXISTING STORMWATER PITS.

TEMPORARY CONTRACTORS VEHICULAR ACCESS POINT. CONSTRUCT A STABILIZED SITE ACCESS IN ACCORDANCE WITH DETAIL SD6-14 OF THE BLUE BOOK, OR ALTERNATIVELY PROVIDE A SHAKEDOWN CATTLE GRID* AT THE ENTRANCE POINT TO REDUCE THE LIKELIHOOD OF SEDIMENT BEING TRAFFICKED OFF-SITE.

SEDIMENT & EROSION CONTROL NOTES

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS, NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION (THE 'BLUE BOOK').
2. INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
3. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
4. INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
5. ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAY'S WORK.
6. THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECTS PLANS FOR TREES TO BE KEPT.
7. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
8. STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
9. CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
10. ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
12. ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.



VERIFIER
JOB MANAGER
DESIGNED: C SMITH
DRAWN: A GRIFFIN

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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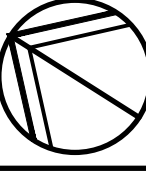
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P.O. Box 180, Charlestown NSW 2290
Ph (02) 4943 1777 Fax (02) 4943 1577
Email newcastle@northrop.com.au ASN 83 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

SEDIMENT AND EROSION
CONTROL PLAN

JOB NUMBER
NL130382

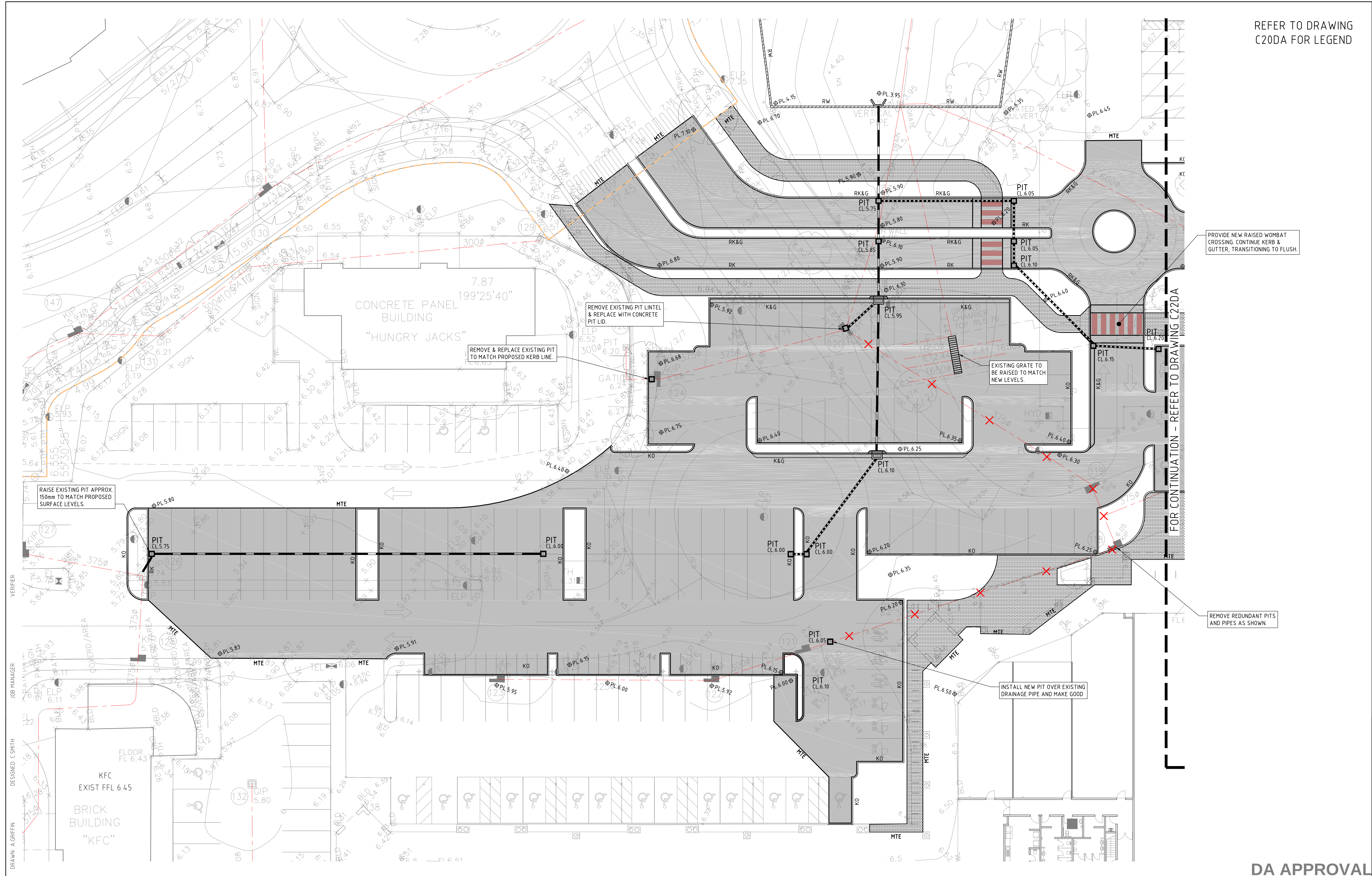
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REVISION
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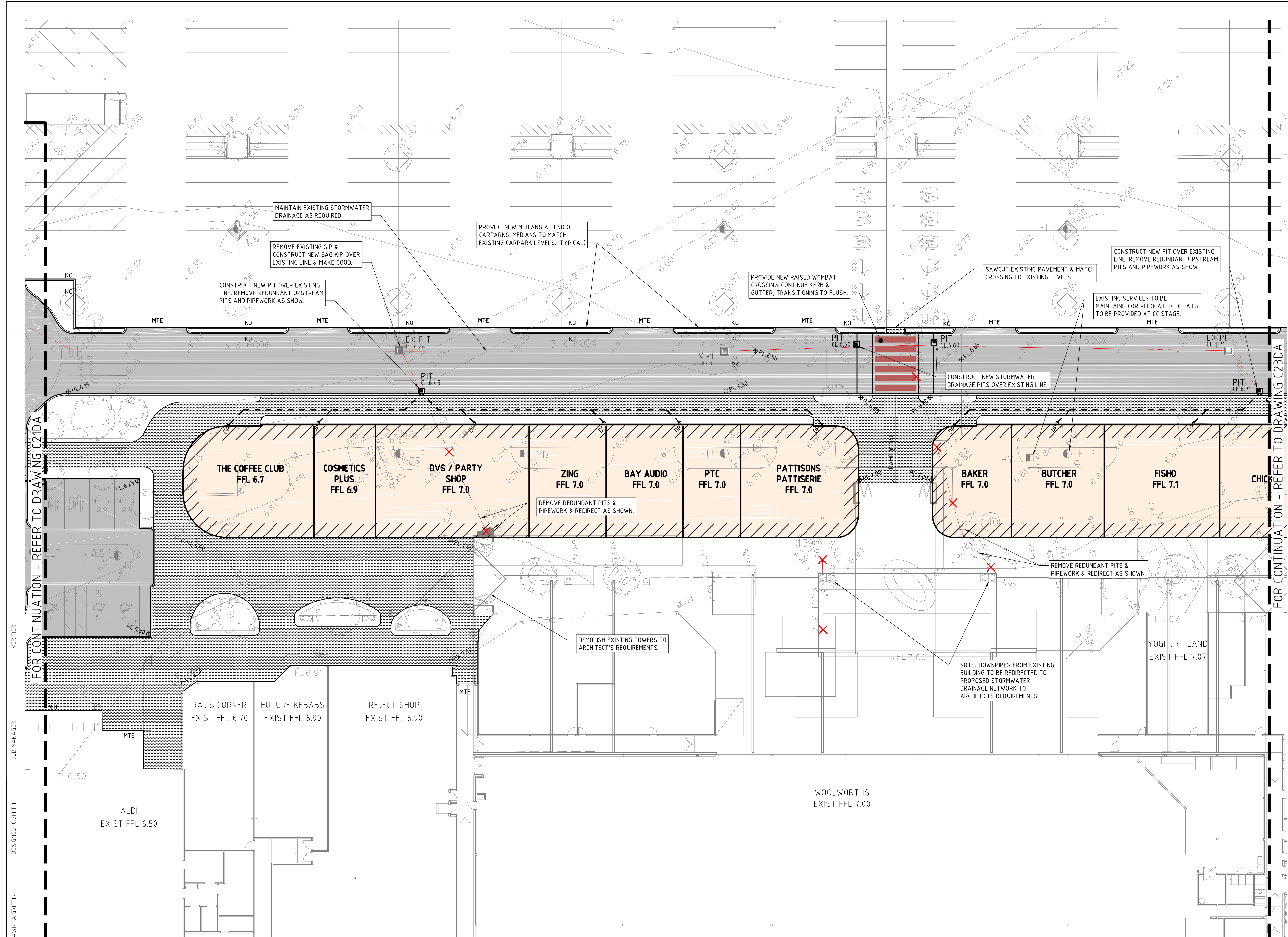


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REFER TO DRAWING
C20DA FOR LEGEND



FOR CONTINUATION - REFER TO DRAWING C23DA

FOR CONTINUATION - REFER TO DRAWING C21DA

VERIFIER
JOB MANAGER
DESIGNED: C SMITH
DRAWN: A GRIFFIN

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P.O. Box 180, Charlestown NSW 2290
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Email newcastle@northrop.com.au ASN 83 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

**STORMWATER MANAGEMENT
AND LEVELS PLAN
- SHEET 2**

JOB NUMBER
NL130382

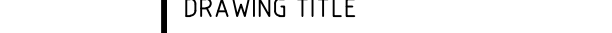
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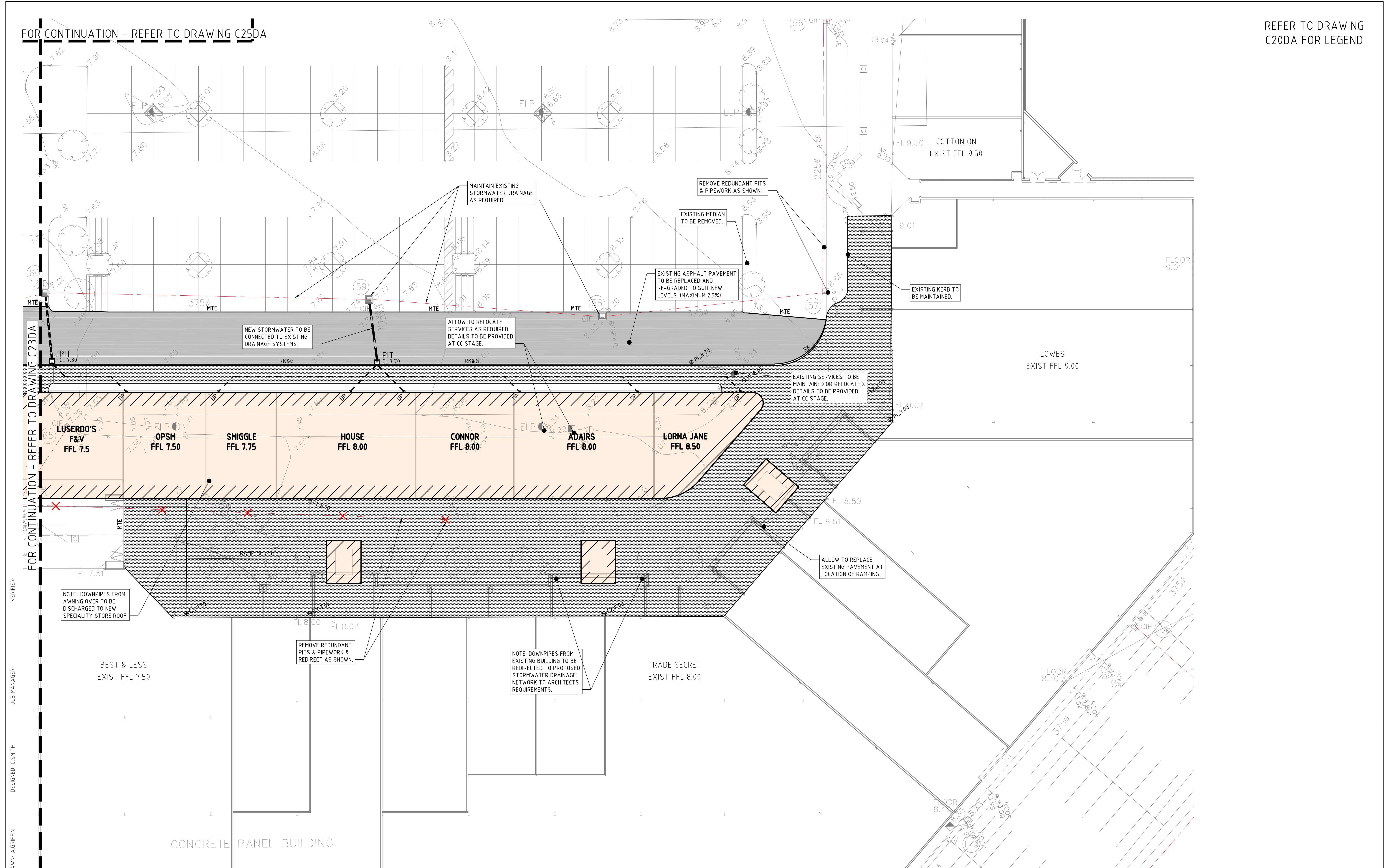
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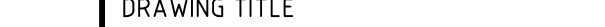


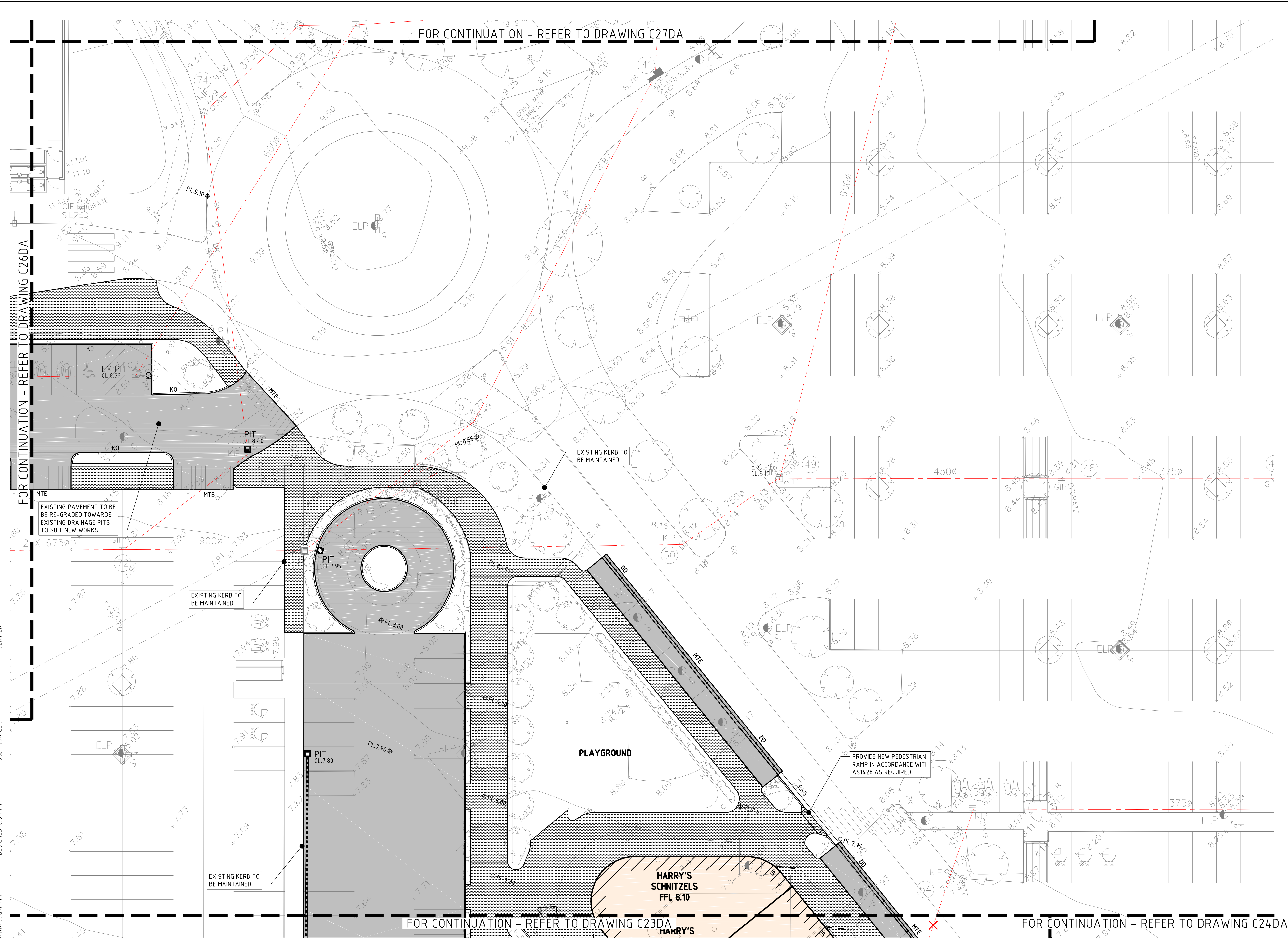
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DRAWN: A GRIFFIN

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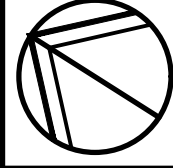
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0 2 4 6 8 10m

PLAN

SCALE 1:200 @ A1



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P.O. Box 180, Charlestown NSW 2290
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Email newcastle@northrop.com.au ABN 81 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

**STORMWATER MANAGEMENT
AND LEVELS PLAN
- SHEET 5**

JOB NUMBER

NL130382

DRAWING NUMBER

C25DA

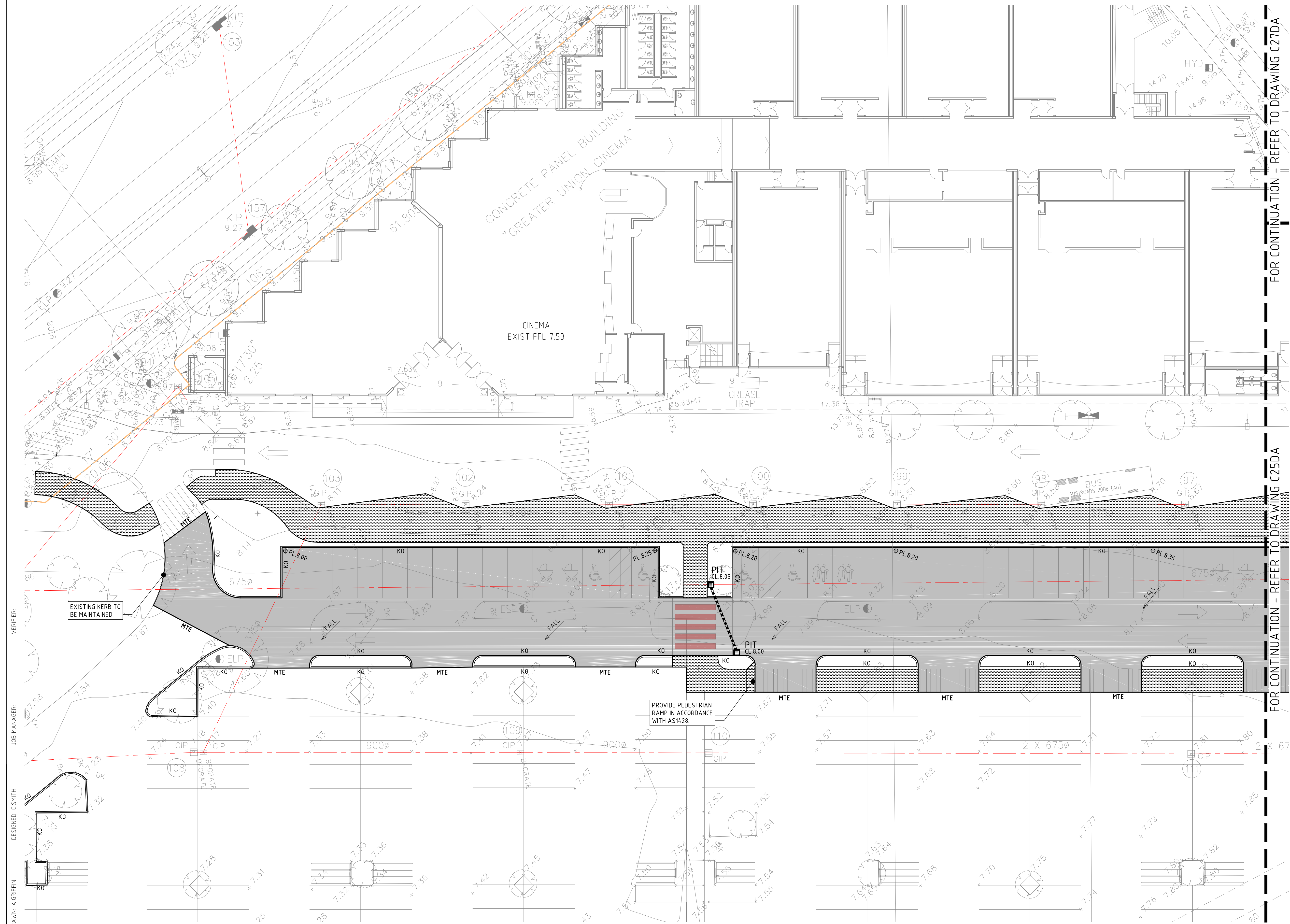
REVISION

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DA APPROVAL

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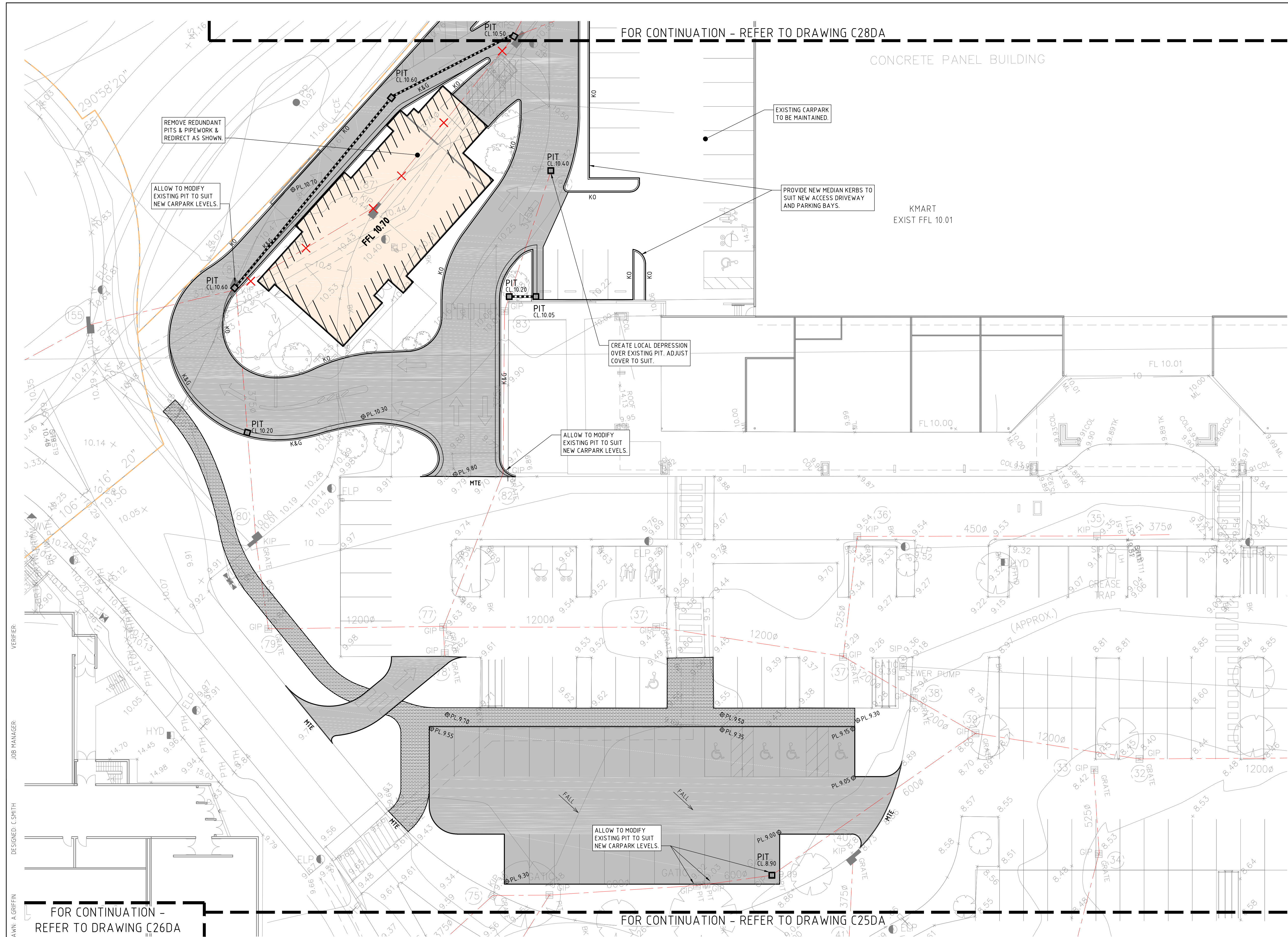


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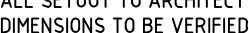
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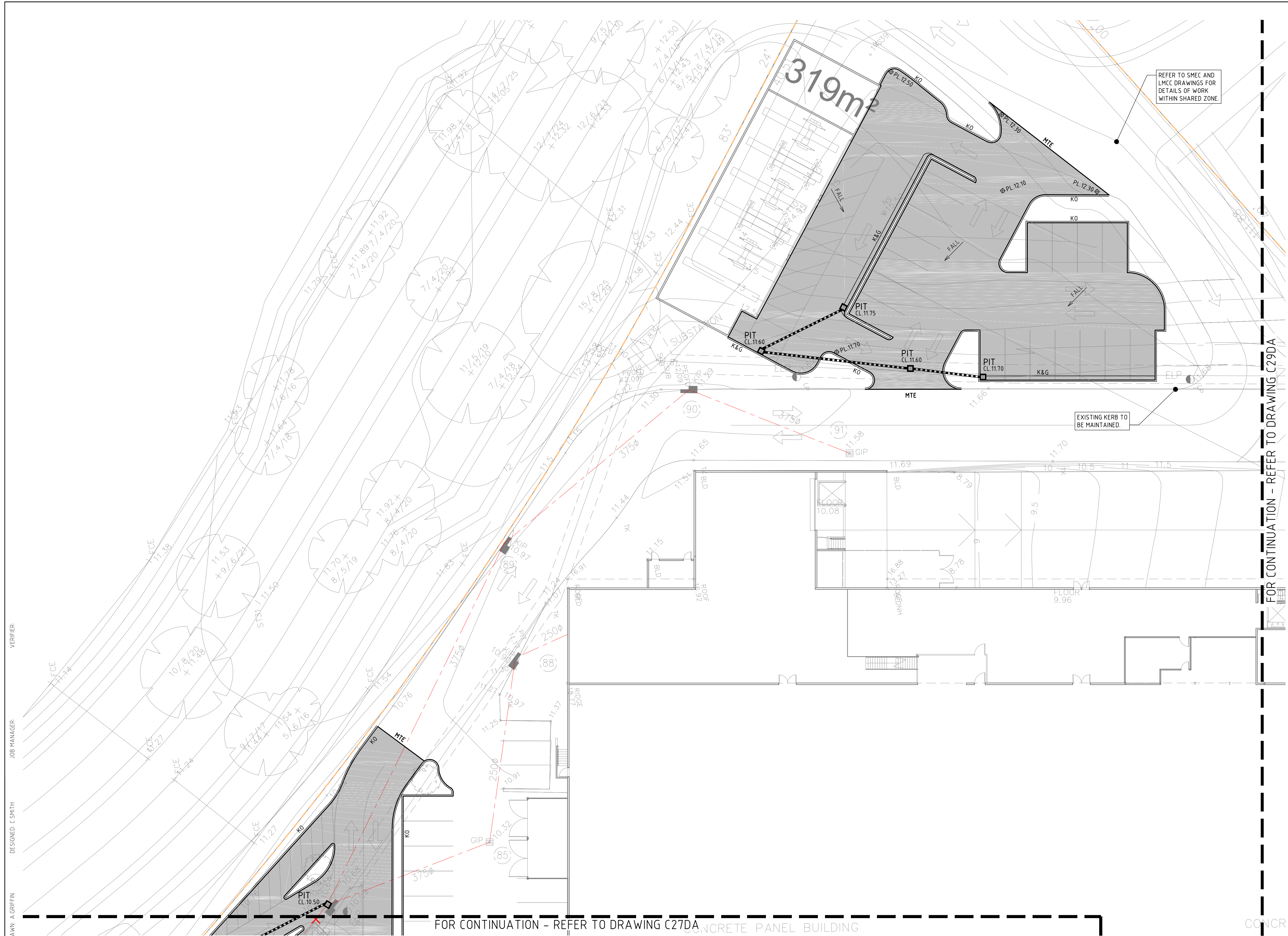
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DRAWING NUMBER	REVISION																
C26DA	A																
DRAWING SHEET SIZE = A1																	
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REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT	PROJECT		DRAWING TITLE	JOB NUMBER	
A	ISSUED FOR \$96 APPROVAL		AG		CS	18.08.17		 Newcastle Suite 4, 215 Pacific Hwy, Charlestown NSW 2290 P.O. Box 180, Charlestown NSW 2290 Ph (02) 4943 1777 Fax (02) 4943 1577 Email newcastle@northrop.com.au ABN 81 094 433 100	 STOCKLAND GLENDALE Lake Road, Glendale, N.S.W	STORMWATER MANAGEMENT AND LEVELS PLAN - SHEET 7	NL130382		
						DRAWING NUMBER					REVISION		
						C27DA					A		
							DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.				DRAWING SHEET SIZE = A1	

REFER TO DRAWING
C20DA FOR LEGEND



VERIFIER
JOB MANAGER
DESIGNED: C SMITH
DRAWN: A GRIFFIN

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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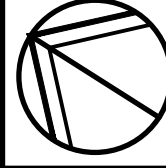
CLIENT



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LANDSCAPE ARCHITECT

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0 2 4 6 8 10m

PLAN
SCALE 1:200 @ A1



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Newcastle

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P.O. Box 180, Charlestown NSW 2290
Ph (02) 4943 1777 Fax (02) 4943 1577
Email newcastle@northrop.com.au ABN 83 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

STORMWATER MANAGEMENT
AND LEVELS PLAN
- SHEET 8

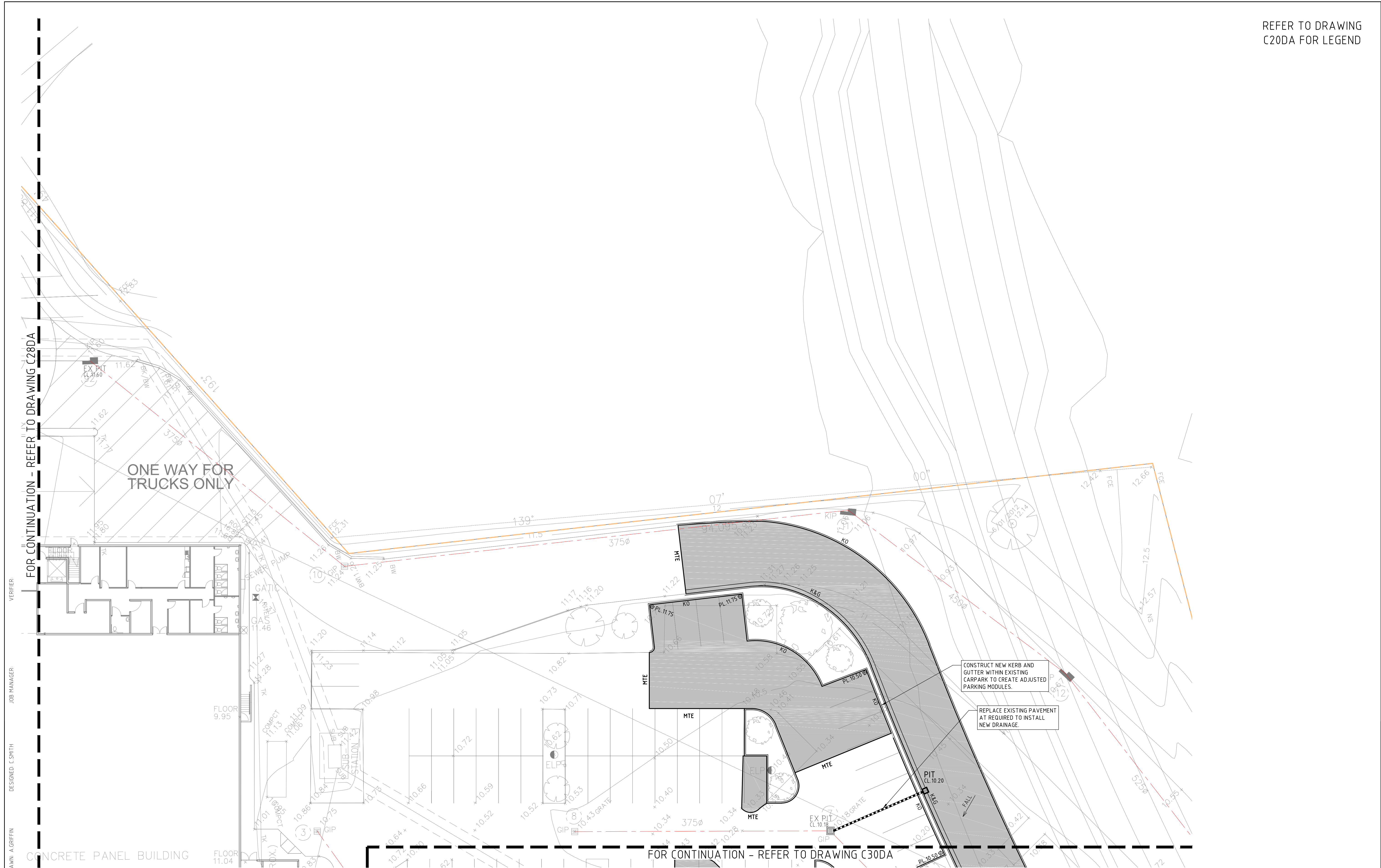
JOB NUMBER
NL130382

DRAWING NUMBER
C28DA

REVISION
A

DRAWING SHEET SIZE = A1

REFER TO DRAWING
C20DA FOR LEGEND



VERIFIER
JOB MANAGER
DESIGNED: C SMITH
DRAWN: A GRIFFIN

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	ISSUED FOR S96 APPROVAL	AG		CS	18.08.17

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PLAN
SCALE 1:200 @ A1

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Ph (02) 4943 1777 Fax (02) 4943 1577
Email newcastle@northrop.com.au ABN 83 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

**STORMWATER MANAGEMENT
AND LEVELS PLAN
- SHEET 9**

JOB NUMBER

NL130382

DRAWING NUMBER

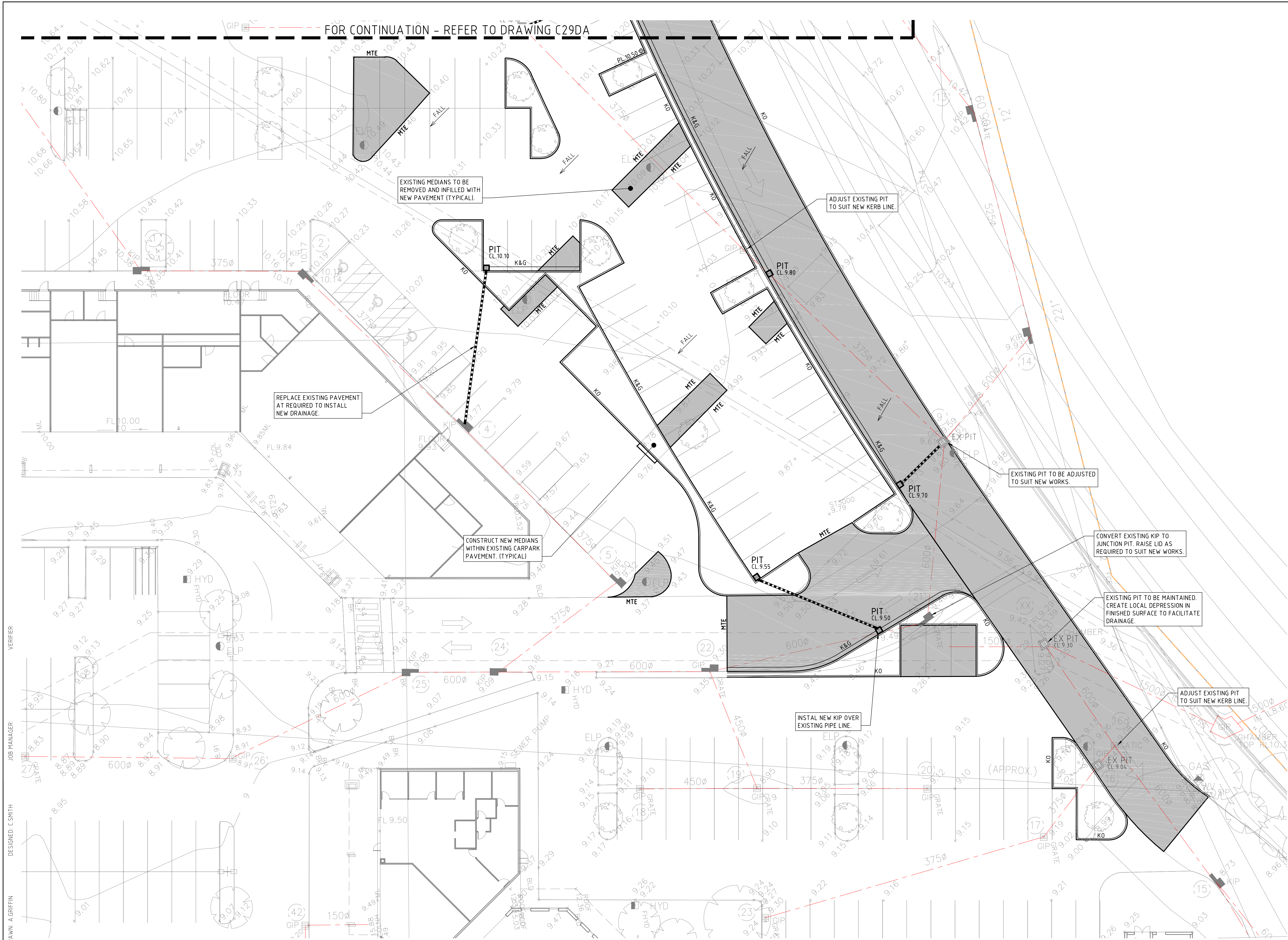
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REVISION

A

DRAWING SHEET SIZE = A1

DA APPROVAL



REFER TO DRAWING
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VERIFIER
JOB MANAGER
DESIGNED: CSMITH
DRAWN: A GRIFFIN

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	ISSUED FOR S96 APPROVAL	AG		CS	18.08.17

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SCALE 1:200 @ A1

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P.O. Box 180, Charlestown NSW 2290
Ph (02) 4943 1777 Fax (02) 4943 1577
Email newcastle@northrop.com.au ASN 83 094 433 100

PROJECT

STOCKLAND GLENDALE
Lake Road, Glendale, N.S.W

DRAWING TITLE

**STORMWATER MANAGEMENT
AND LEVELS PLAN
- SHEET 10**

DA APPROVAL

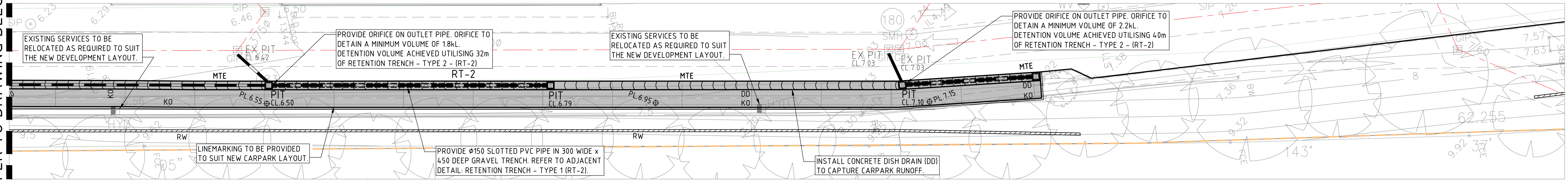
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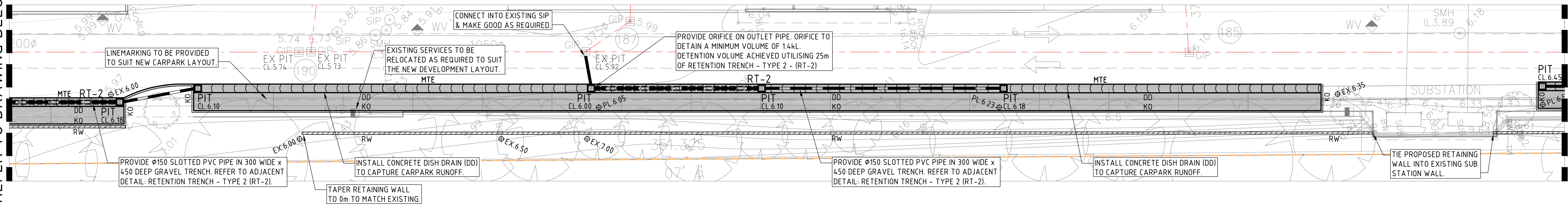
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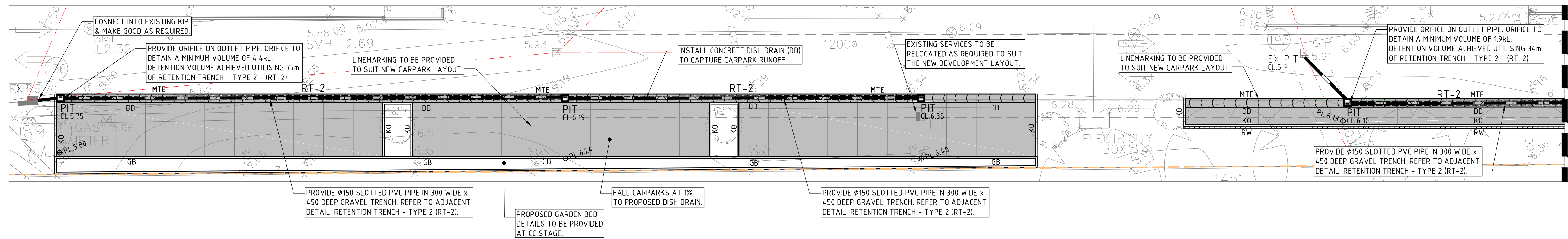
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REFER TO DRAWING BELOW



FOR CONTINUATION
REFER TO DRAWING BELOW

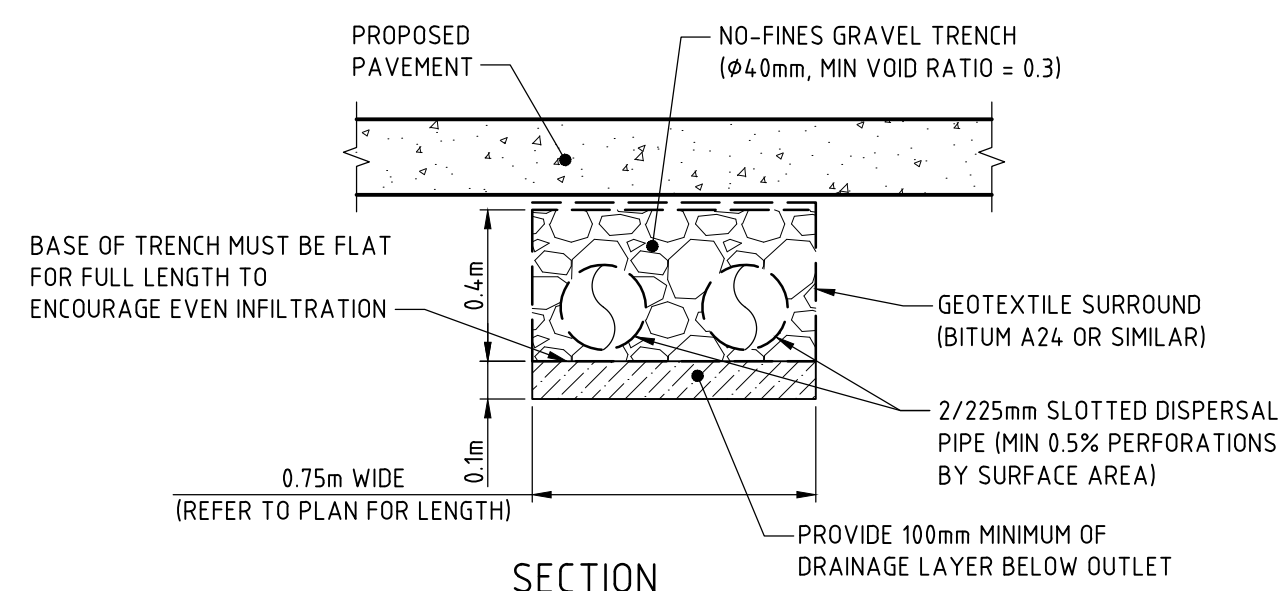


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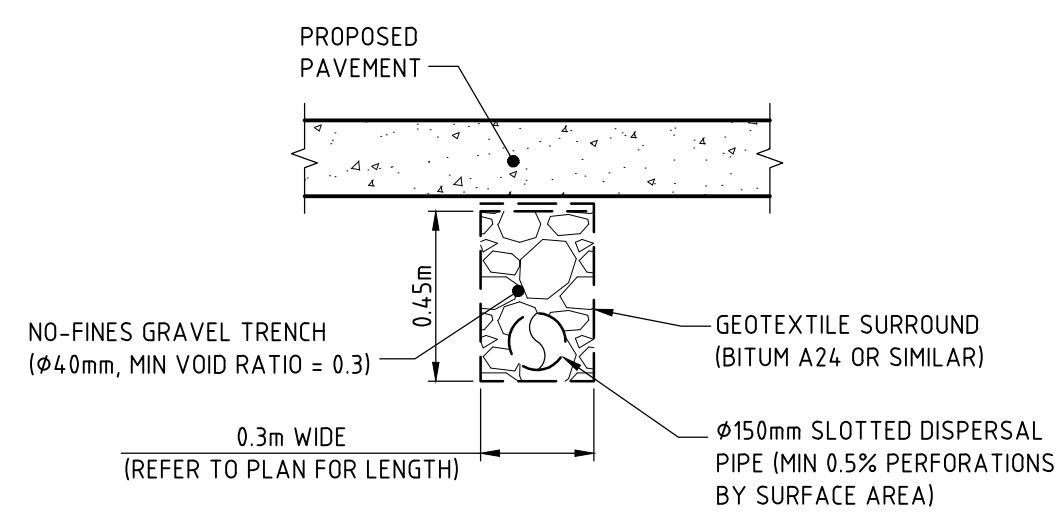


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RETENTION TRENCH - TYPE 1 (RT-1)



RETENTION TRENCH - TYPE 2 (RT-2)



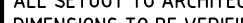
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						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.			DRAWING NUMBER C32DA	REVISION A
										DRAWING SHEET SIZE = A1	

RETAINING WALL PLAN
SCALE: 1:200

TYPICAL ROCK GRAVITY RETAINING WALL HEIGHT UP TO 3.0m
SCALE: 1:20

ROCK RETAINING WALL ELEVATION

DA APPROVAL

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT			PROJECT	DRAWING TITLE	JOB NUMBER
A	ISSUED FOR \$96 APPROVAL	AG		CS	18.08.17			ALL SETOUT TO ARCHITECT'S DRAWINGS, DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	Suite 4, 215 Pacific Hwy, Charlestown NSW 2290 P O Box 180, Charlestown NSW 2290 Ph (02) 4943 1777 Fax (02) 4943 1577 Email northrop@northrop.com.au AEN 81.094 433 100	STOCKLAND GLENDALE Lake Road, Glendale, N.S.W	DETENTION BASIN AND RETAINING WALL PLAN	NL130382
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.				DRAWING NUMBER C400DA	REVISION A
												DRAWING SHEET SIZE = A1

RAMP GRADES:

RAMP WIDTHS

PARKING BAYS

AISLES

HEIGHT CLEARANCES TO STRUCTURE AND SERVICES

NOTE: ALL DIMENSIONS SHOWN ARE THE RECOMMEND MINIMUM BY AS2890.1-2004 AND AS2890.6-2009, AND THE PLANS HAVE BEEN CHECKED ACCORDINGLY. ANY ALLOWABLE TOLERANCES TO THESE DIMENSIONS THAT MAY OCCUR DURING CONSTRUCTION SHOULD BE ADDED AT THE DESIGN STAGE

Off-street commercial vehicle facilities should be designed for the largest expected vehicle using the facility.

RAMP GRADES:

RAMP WIDTHS

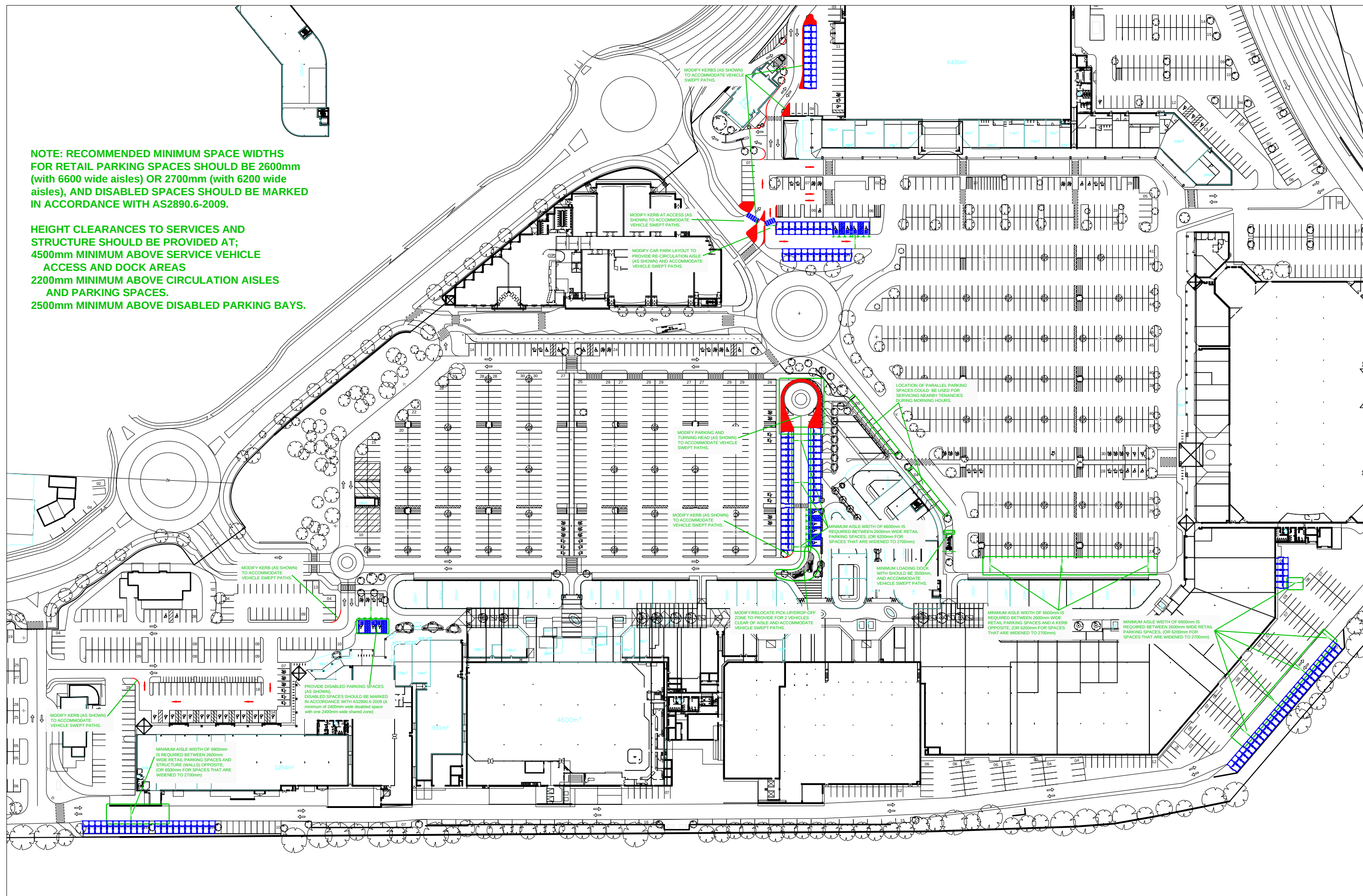
LOADING BAYS

HEIGHT CLEARANCES

NOTE: ALL DIMENSIONS SHOWN ARE THE RECOMMEND MINIMUM BY AS2890.2-2002, AND THE PLANS HAVE BEEN CHECKED ACCORDINGLY. ANY ALLOWABLE TOLERANCES TO THESE DIMENSIONS THAT MAY OCCUR DURING CONSTRUCTION SHOULD BE ADDED AT THE DESIGN STAGE

BASE PLANS RECEIVED BY CBRK DATED: 10 August 2017
PLAN NUMBERS: GLEN OP37A.dwg

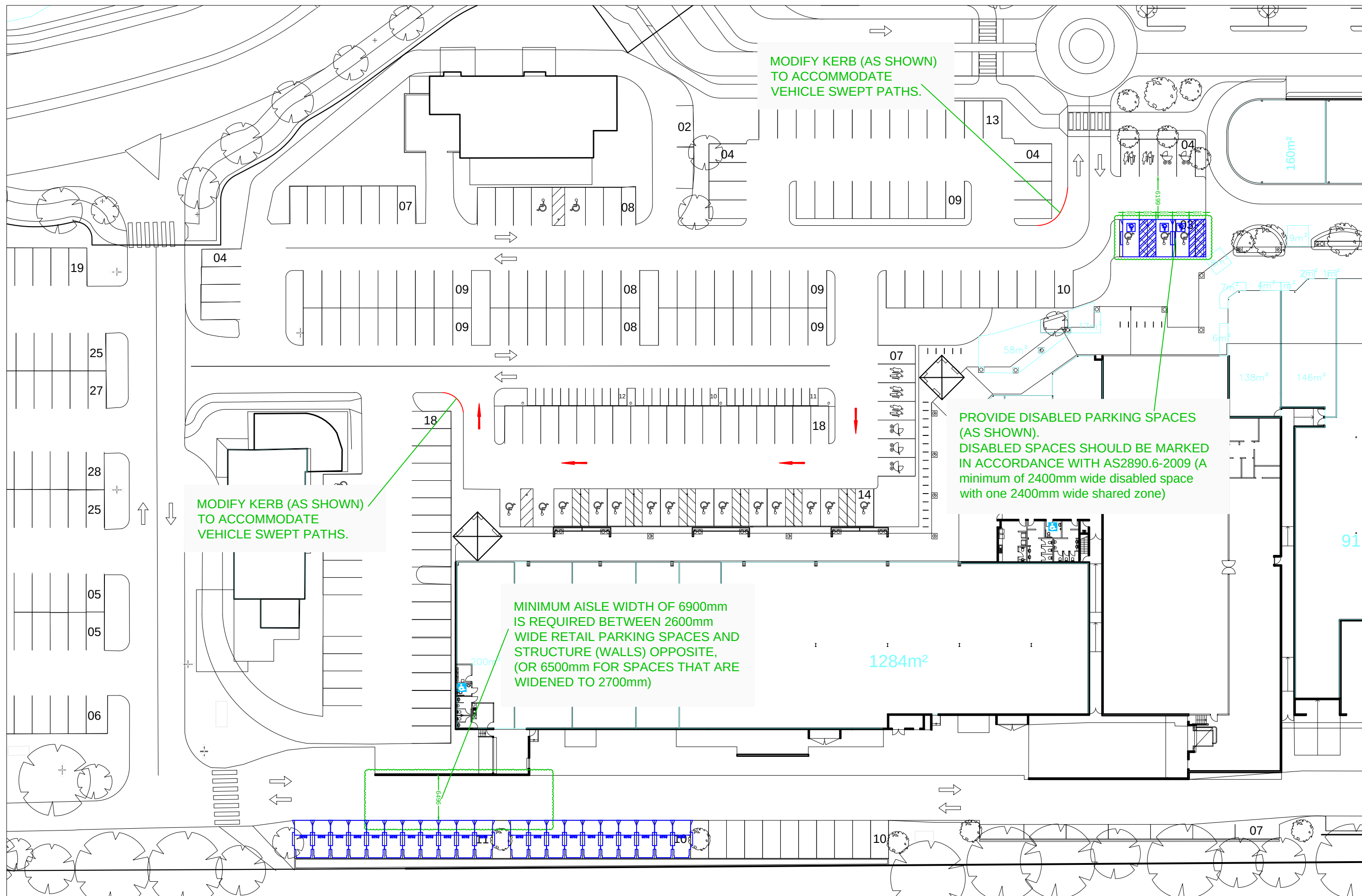
**HEIGHT CLEARANCES TO SERVICES AND
STRUCTURE SHOULD BE PROVIDED AT;
4500mm MINIMUM ABOVE SERVICE VEHICLE
ACCESS AND DOCK AREAS
2200mm MINIMUM ABOVE CIRCULATION AISLES
AND PARKING SPACES.
2500mm MINIMUM ABOVE DISABLED PARKING BAYS.**



NOTE:
SKETCH PLAN ONLY. PROPERTY BOUNDARIES,
UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO
SURVEY AND FINAL DESIGN. TRAFFIC MEASURES
PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND
ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

COMPLIANCE CHECK AS2890.1-2004 & AS2890.2-2002

D08517532



NOTE:
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COMPLIANCE CHECK
 AS2890.1-2004 &
 AS2890.2-2002

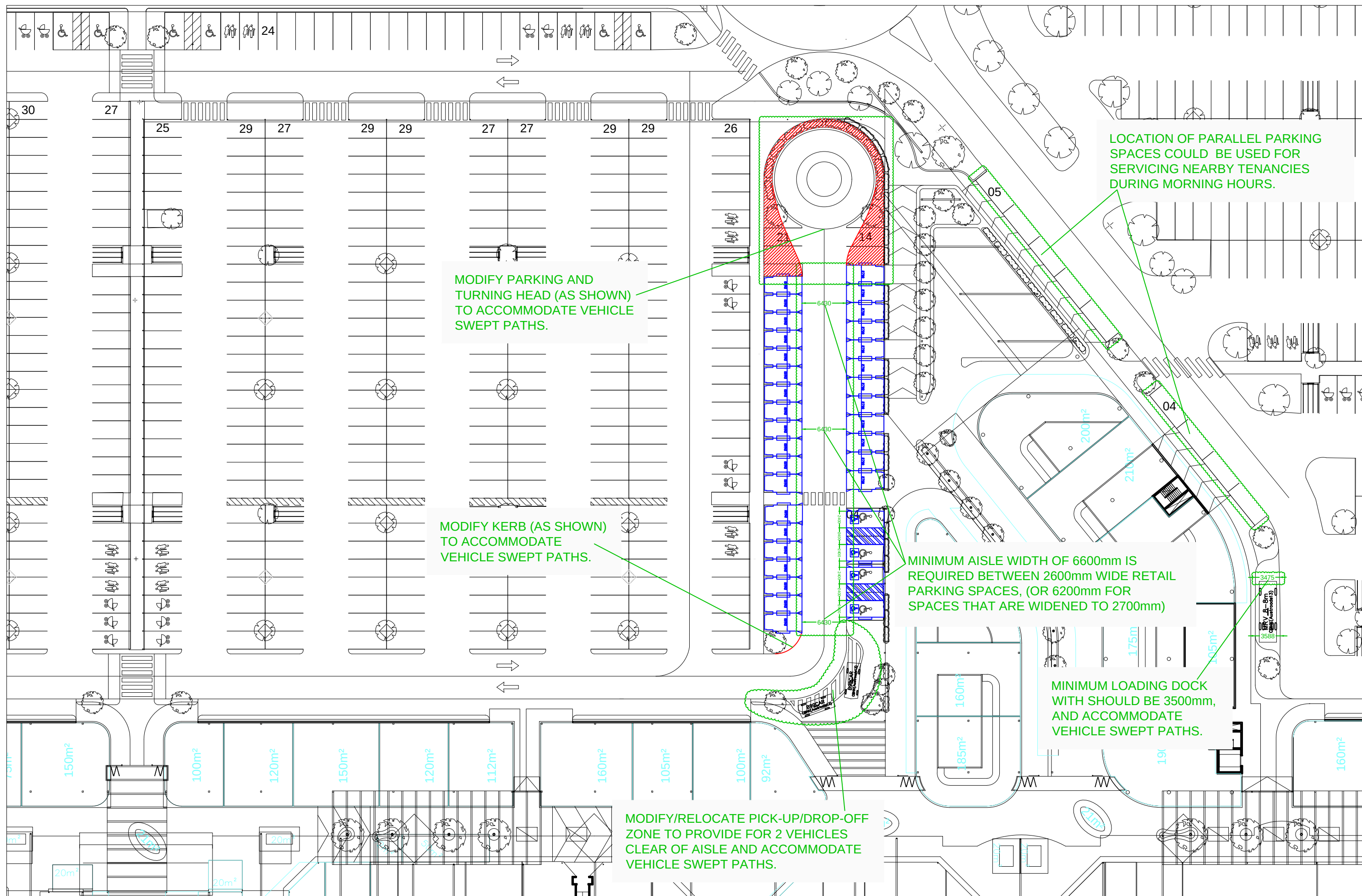
DRAWN BY CBRK Pty Ltd_mrf Ref: 10509

22 August 2017

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COMPLIANCE CHECK

AS2890.1-2004 & AS2890.2-2002



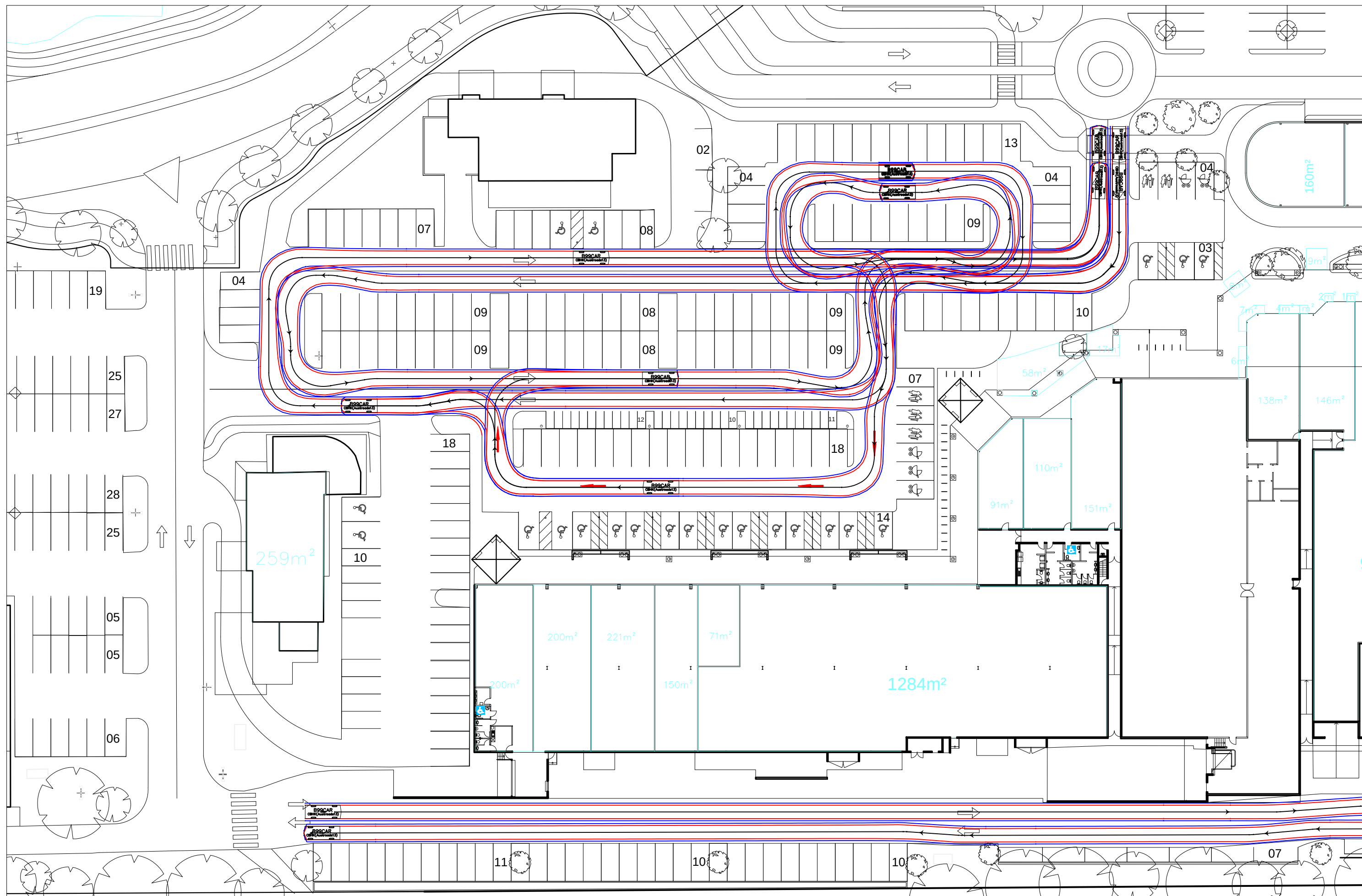
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COMPLIANCE CHECK
 AS2890.1-2004 &
 AS2890.2-2002

COMPLIANCE CHECK

AS2890.1-2004 & AS2890.2-2002

D08517532



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— Swept Path of Vehicle Body
— Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEEP PATHS

D08517532



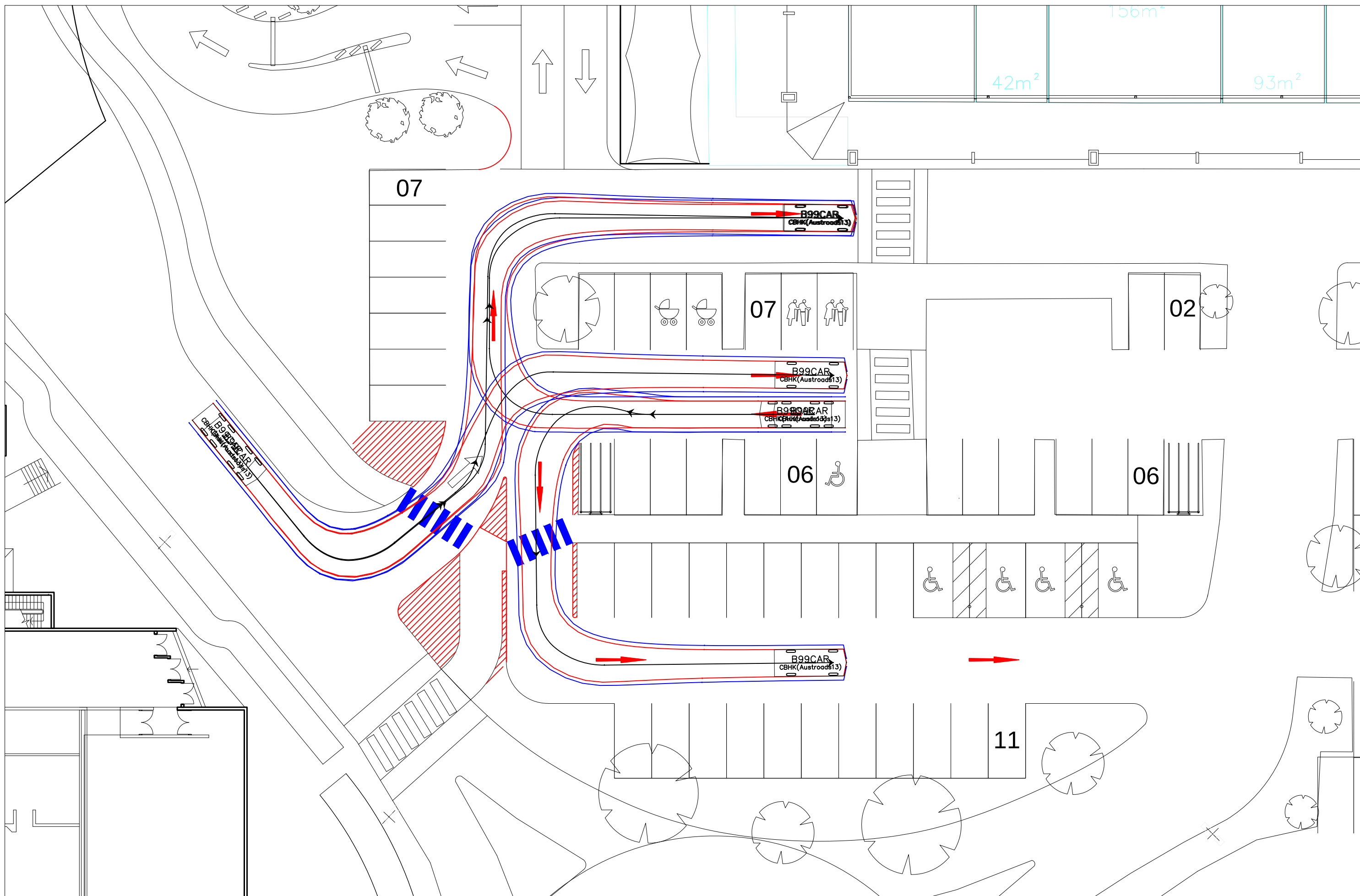
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— Swept Path of Vehicle Body
— Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEPT PATHS

— Swept Path of Vehicle Body
— Swept Path of Clearance to Vehicle Body

DRAWN BY CBRK Pty Ltd_mr Ref: 10509



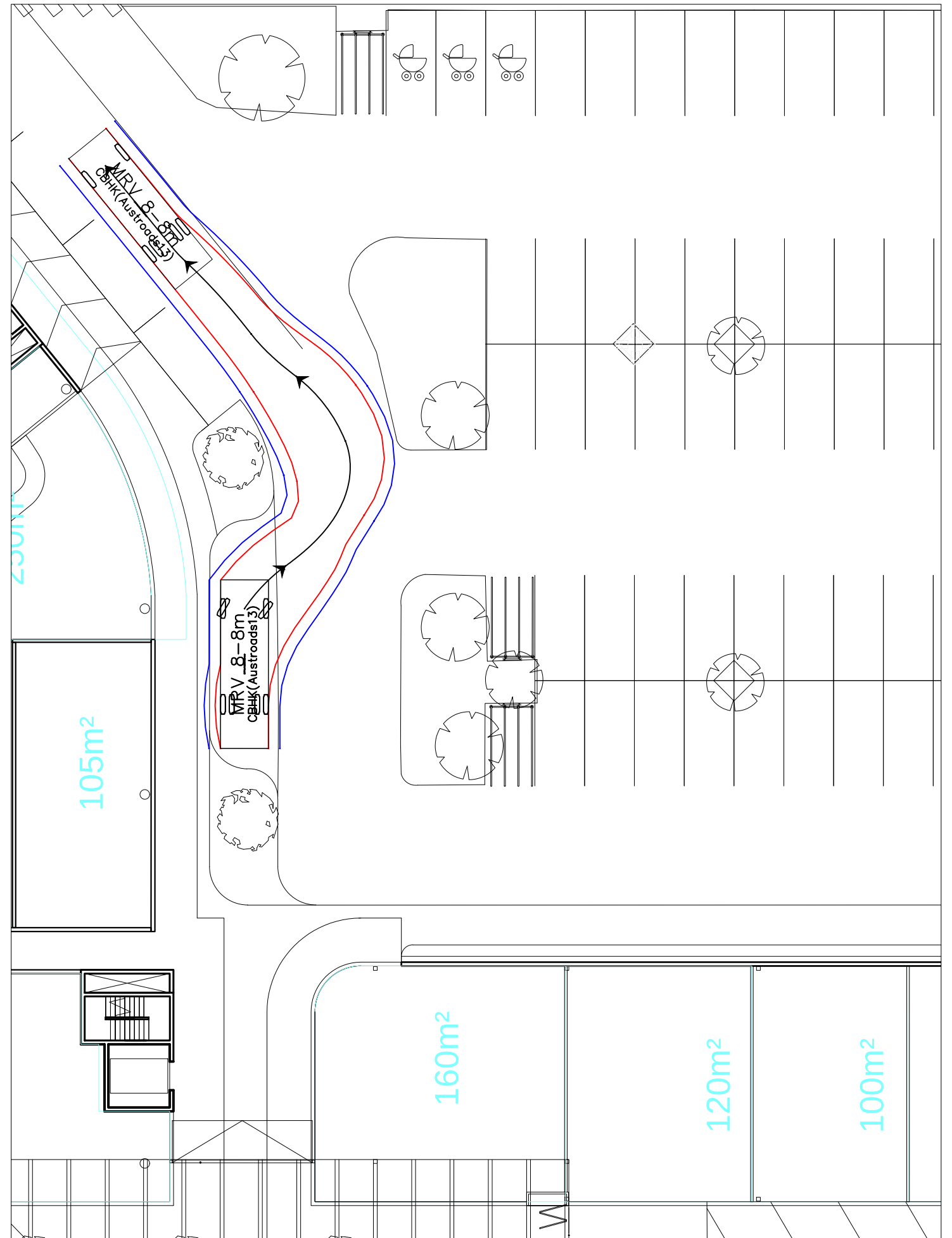
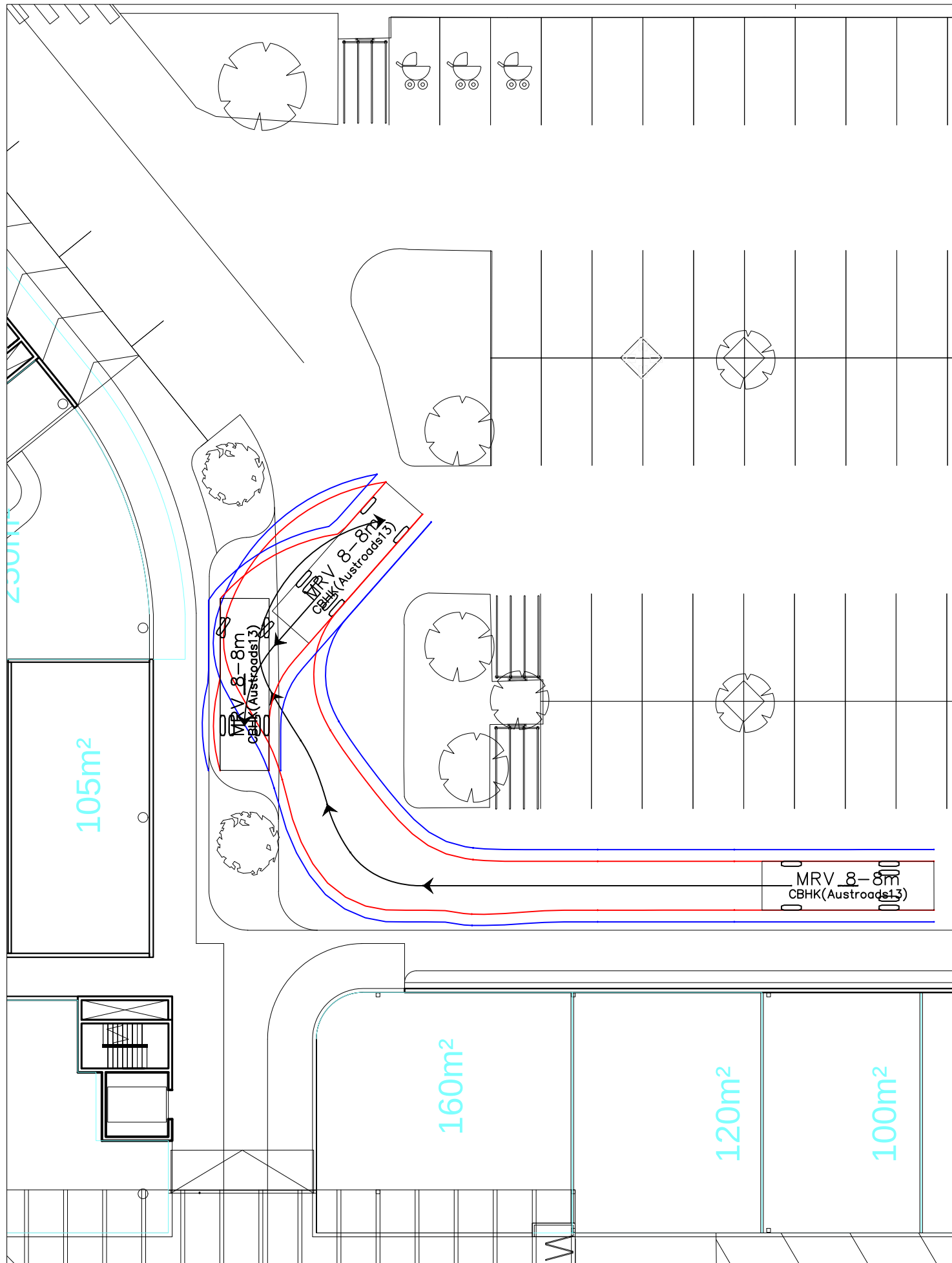
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— Swept Path of Vehicle Body
 — Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEEP PATHS

— Swept Path of Vehicle Body
— Swept Path of Clearance to Vehicle Body

B99 & 8.8m MEDIUM RIGID VEHICLE SWEEP PATHS



NOTE:
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— Swept Path of Vehicle Body
— Swept Path of Clearance to Vehicle Body

**8.8m MEDIUM RIGID VEHICLE
SWEPT PATHS**