



Tel: 02 8004 0460
www.auswideconsulting.com.au
info@auswideconsulting.com.au
ABN 13 143 437 432

OPERATIONAL WASTE MANAGEMENT PLAN

DAPTO LEAGUES CLUB, DAPTO, NSW 2530

*Part Demolition of Existing Building & Construction Additions and
Internal Refurbishments*

Prepared for:

Integrated Projects

Date Prepared:

June 2024

Revision:

1.3

Wollongong City Council Application #:

TBA

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Introduction

AusWide Consulting was commissioned by Integrated Projects to prepare an Operational Waste Management Plan (WMP) for Council approval.

The proposed development consists of:

Development Details
Part Demolition of Existing Building & Construction Additions and Internal Refurbishments

In the course of preparing this WMP, plans of the development have been examined, and all relevant council requirements and documentation collected and analysed.

This WMP has been prepared based on the following information:

- Architectural Plans provided by Altis Architecture
- Wollongong Local Environmental Plan 2009
- Wollongong Development Control Plan 2009
- NSW EPA Better Practice Guide for Resource Recovery in Residential Developments (2019).

Background and Existing Conditions

Dapto Leagues Club is located on the corner of Station Street and Bong Bong Road, Dapto. The site is located across the road from Dapto Train Station (train station approximately 80 metres to the west). It is within the E1 – Local Centre zone within the town centre. To the north of the site consists of residential lots within an R3 – Medium Density Residential zone, to the east consists of businesses in an E2 – Commercial Centre zone, and to the south consists of industrial units in an E4 – General Industries zone. The site currently consists of the existing Leagues Club building and its ancillary facilities.

Figure 1 on page 6 provides an overview of the area, and its surrounding land uses whilst **Figure 2** provides an aerial view of the immediate area surrounding the subject site.

Figure 3 on page 7 provides a street view of the subject site.

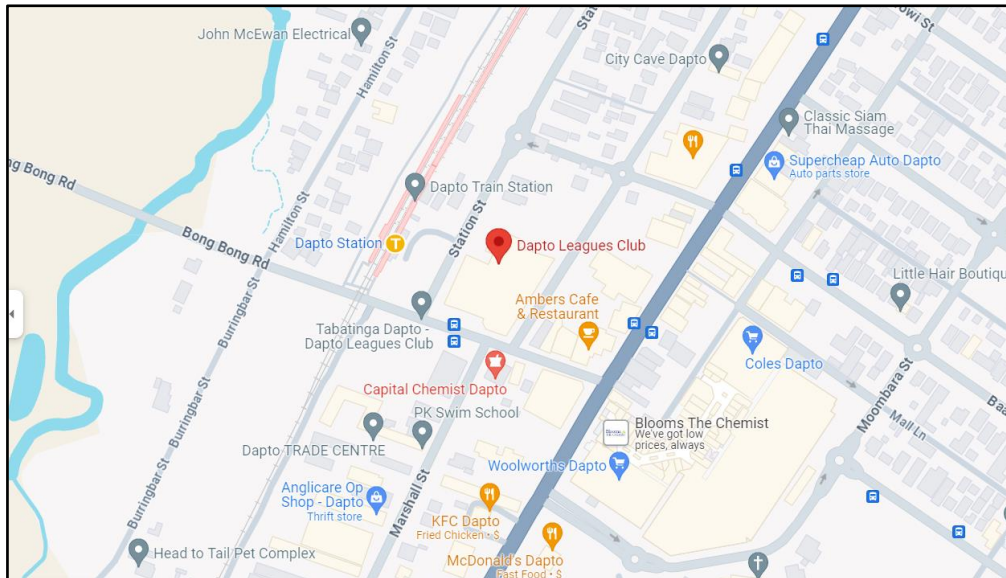


Figure 1: Location of the Subject Site (© Google 2023)

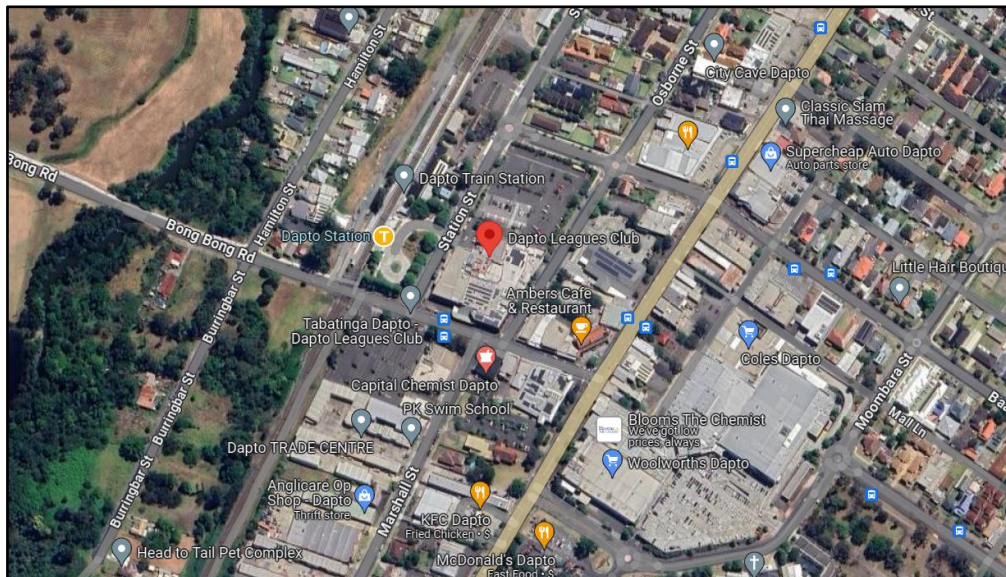


Figure 2: Aerial View of the Subject Site (© Google 2023)



Figure 3: Street View of the Subject Site (© Google 2023)

On-Going Waste Management, Storage and Collection

The proposed development includes the construction of additions and internal refurbishments of Dapto Leagues Club. The ongoing operations of the club will include existing uses associated with the licenced club including existing and proposed food & beverage venues within the club and the addition of a new food & beverage venue and café. A new loading dock is also proposed to be accessed via the Station Street side of the site. A bin storage room is provided which opens directly onto the new loading dock.

The existing Leagues Club is currently serviced by private contractors with the schedule detailed in **Table 1**.

Table 1: Dapto Leagues Club Existing Waste Collection Schedule

Waste Stream	Number and Type of Bins	Collection Schedule	Weekly Bin Capacities
General Waste	2-5 x 660L Bulk Bins	6 x a week (Monday-Saturday)	Up to 19,800L
Commingled Recycling	4-5 x 660L Bulk Bins	2 x a week	Up to 6,600L
Organic Waste	8 x 240L MGBs	2 x a week	Up to 3,840L
Glass	10 x 80L MGBs	1 x week	Up to 800L
Cardboard	Baler	1 x monthly	-

Waste Generation

The proposed additions and refurbishments do not seek to greatly increase the gross floor area of the Leagues Club however the addition of a new food & beverage venue and café will see a slight increase in the volumes of waste generated by the development. **Tables 2 & 3** show the calculations of the expected waste volumes that the new food & beverage venue and the café will generate per week. All waste and recycling generation rates have been calculated in accordance with the provisions of 'Table F3: Calculating commercial and industrial waste and recycling generation rates' in the NSW EPA Better Practice Guide for Resource Recovery in Residential Developments (2019) document. The following **Table 2** illustrates better practice estimated general waste and recycling generation rates for 'Restaurants' and 'Cafes'. The 'Restaurants' rate is used as per guidance from the 'Licenced clubs' rate in the same **Table 3**.

Table 2: Better Practice Estimated General Waste and Recycling Generation Rates for Retail: Restaurants and Cafes.

Premises Type	General Landfill Waste	Paper, Cardboard and Commingled Recycling
Restaurants	400L / 100m ² / 1x Day (hours of operation)	280L / 100m ² / 1x Day
Cafes	100L / 100m ² / 1x Day	120L / 100m ² / 1x Day

Waste Generation within the Proposed Additions

The following **Table 3** shows the estimated volumes of general waste and recycling for the Restaurant and Cafe.

Table 3: Estimated Weekly Volumes of General Waste and Recycling for the Additions

Waste Type	Retail: Restaurant WASTE GENERATION RATES Litres of Space / premises / per week	F&B Waste per Week	Retail: Cafe WASTE GENERATION RATES Litres of Space / premises / per week	Cafe Waste per Week	TOTAL WASTE PER WEEK FOR ADDITIONS
General Landfill Waste	400L x (1500m ² /100m ²) x (7 x 0.25) days	10,500L	100L x (330m ² /100m ²) x 7 days	2,310L	12,810L
Paper, Cardboard and Commingled Recycling	280L x (1500m ² /100m ²) x (7 x 0.25) days	7350L	120L x (330m ² /100m ²) x 7 days	2,772L	10,122L

Table 4 shows the additional expected waste volumes added to the existing weekly bin capacities. The following **Table 5** shows the amended collection schedule that will be implemented by Dapto Leagues Club to ensure all waste continues to be efficiently serviced from the site. **Figure 4** (page 10) is a scaled diagram showing that the bins detailed in **Table 5** can adequately be stored in the bin storage room.

Table 4: Total Minimum Bin Capacities for New Development

Waste Stream	Existing Weekly Bin Capacities	TOTAL WASTE PER WEEK FOR ADDITIONS	TOTALS
General Waste	Up to 19,800L	12,810L	32,610L
Commingled Recycling	Up to 6,600L	10,122L	21,362L
Organic Waste	Up to 3,840L		
Glass	Up to 800L		
Cardboard	-		

Table 5: Amended Waste Collection Schedule

Waste Stream	Number and Type of Bins	Collection Schedule	Weekly Bin Capacities
General Waste	5 x 1100L Bulk Bins	6 x a week (Monday-Saturday)	33,000L
Commingled Recycling	4 x 660L Bulk Bins	3 x a week	7,920L
Organic Waste	4 x 240L MGBs	4 x a week	3,840L
Glass	10 x 80L MGBs	2 x week	1,600L
Cardboard	Baler	1 x monthly	8,000L



Figure 4: Scaled Diagram of Bin Storage Room

The following **Table 6** contains the indicative bin sizes outlined in the NSW EPA Better Practice Guide for Resource Recovery, for the MGBs mentioned above.

Table 6: NSW EPA Better Practice Guide for Resource Recovery 2019 Bin Dimensions for the Required MGBs.

Size	Height (mm)	Width (mm)	Depth (mm)
1100L	1,470	1,370	1,245
660L	1,250	1,370	850
240L	1,080	580	735
80L	870	450	530
Baler	2,920	1,765	1,025
Cardboard Bale	950	1,200	800

Further Waste Reduction

This waste management plan is aimed at complying with Council requirements. Further opportunities for waste minimisation and recycling should be examined, particularly when the site is operational. The NSW EPA has advice on waste minimisation for businesses. By adopting the waste minimisation advice outlined on the NSW EPA website and ensuring that the waste storage area is hygienically maintained, the general waste and recycling bins service configuration could be amended to a less frequent collection schedule.

Waste Collection

All commercial waste services and recycling services will be provided by a licensed private waste collection contractor.

Dapto Leagues Club will continue the Service Level Agreement with the waste and recycling contractors in relation to the provision of all waste and recycling services to the development, and the manner in which they will be provided.

The waste storage area is located within loading dock accessed via Station Street. This location ensures that the loading of waste collection will occur onsite will and not impede traffic flow to, from or within the development. Waste collection vehicles will park at the loading bay and collection staff will access the bins directly from the bin storage room.

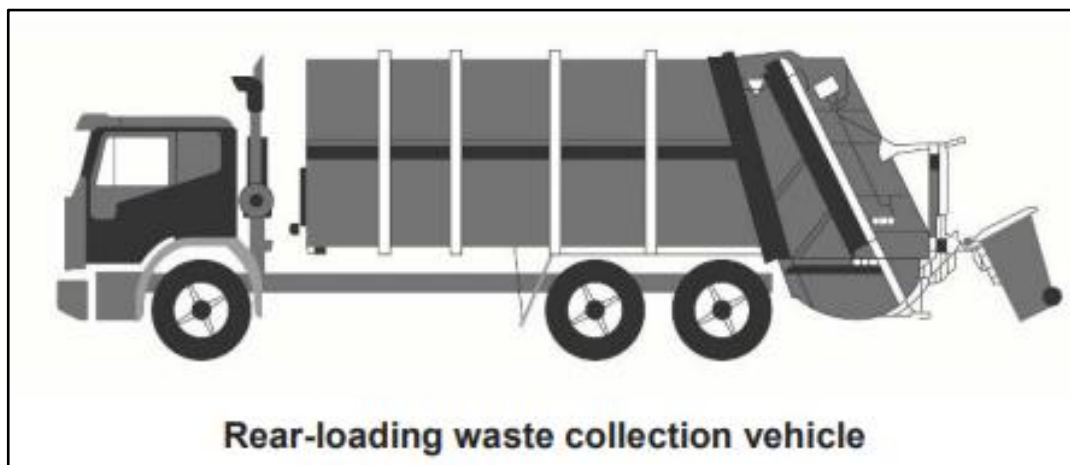


Figure 5: Standard Rear-End Loading Waste Collection Vehicle

Amenity

Noise

The only noise generated from the waste management at the property will be that of the waste being collected, any other noise related to the waste management will be kept to a minimum.

Ventilation

The waste storage area will have adequate ventilation that is not connected to any systems that service customer areas.

Security/Communication Strategy

All MGBs will be secured within the waste storage area.

All staff will receive detailed documentation detailing all necessary requirements for safe waste management and handling including all relevant contact information.

Cleaning Facilities

The proprietors are responsible for keeping the MGBs clean and they will inspect the MGBs immediately after collection and clean any debris as required.

The waste storage area will have **(1)** Impervious coated/treated ground surface, ensuring the ground is graded to appropriate drain. **(2)** Access to appropriate washing facilities for use of cleaning the MGB's and waste area.

Staff and/or clean contractors will inspect the bin storage at time of collection to ensure it is free from loose refuse and debris.

Prevention of Vermin

The staff will be advised to not overfill the bins so that the lids are closed at all times. It is suggested to place rat traps in the corners of the waste storage areas.

APPENDICES

APPENDIX A – Architectural Plans



DATE	DESCRIPTION
13/07/2021	SELECT FOR INFORMATION
20/07/2021	SELECT FOR INFORMATION
27/07/2021	SELECT FOR INFORMATION
03/08/2021	SELECT FOR INFORMATION
10/08/2021	SELECT FOR INFORMATION
17/08/2021	SELECT FOR INFORMATION
24/08/2021	SELECT FOR INFORMATION
31/08/2021	SELECT FOR INFORMATION

DAFTO LEAGUES CLUB GROSS FLOOR AREA CALCULATIONS		
	PHOTOCOPIED CPA	
	EXISTING CPA	
ELEMENT PLAN	176 sqm	347 sqm
CHURCH OF DOB PLAN	3000 sqm	5413 sqm
LEVER PLAN	2556sqm	5732sqm
LEVER PLAN	12sqm	0sqm
TOTAL	6116sqm	6500sqm
TOTAL ADDITIONAL FLOOR AREA		
5133sqm		
FSE CALCULATION		
TOTAL SE FSE AREA	1477sqm	
CHURCH OF DOB AREA	6504sqm	
TOTAL FSE	1 : 1.371	

Downloaded from *Environmental Health Perspectives* Vol. 102, pp. 231-237, 1994
 ISSN: 0893-7260/94/020231-07\$04.00/0
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 Printed in the U.S.A.

IMPERVIOUS AREA CALCULATION	
TOTAL SITE AREA	14,275sq'
TOTAL IMPERVIOUS AREA	13,013sq'
IMPERVIOUS %	90.9%

NOTE 1: FOR MORE COMPREHENSIVE LIST OF SET BACK DRAWINGS, REFER TO DANCIC & JALICZ.
NOTE 2: REFER TO CIVIL DRAWINGS FOR STOPWATER, INLET AND TIE IN.

DATE: _____
BY: _____
CHECKED: _____
DATE: _____
BY: _____
CHECKED: _____

KEY					
	EXTENT OF EXISTING CLUD, NO WORKS		EXTENT OF EXISTING CLUD TO BE REMOVED		EXTENT OF LANDSCAPING, TREES TO LANDSCAPE
	USE AREA TO NEW BUILDING FOOTPRINT				EXISTING TREES TO REMAIN FOR ADDITIONAL PERSONAL USE
					GLAZING IN NEW BUILDING FOOTPRINT

DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

ALTIS
ARCHITECTURE

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sillo 123/26 32 crisma total personal net 2000 audidia

SITE PLAN



1-500 WORKSHEET BK	@ A1 UP-COUNTY DC	PARCEL NO. 2219.03	DEPARTMENT DA0001	SOURCE G
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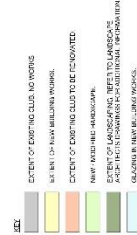


FIG. 10.1
DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

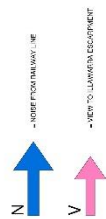
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SITE ANALYSIS



Accepted for publication 15 November 2005
Published online 12 December 2005

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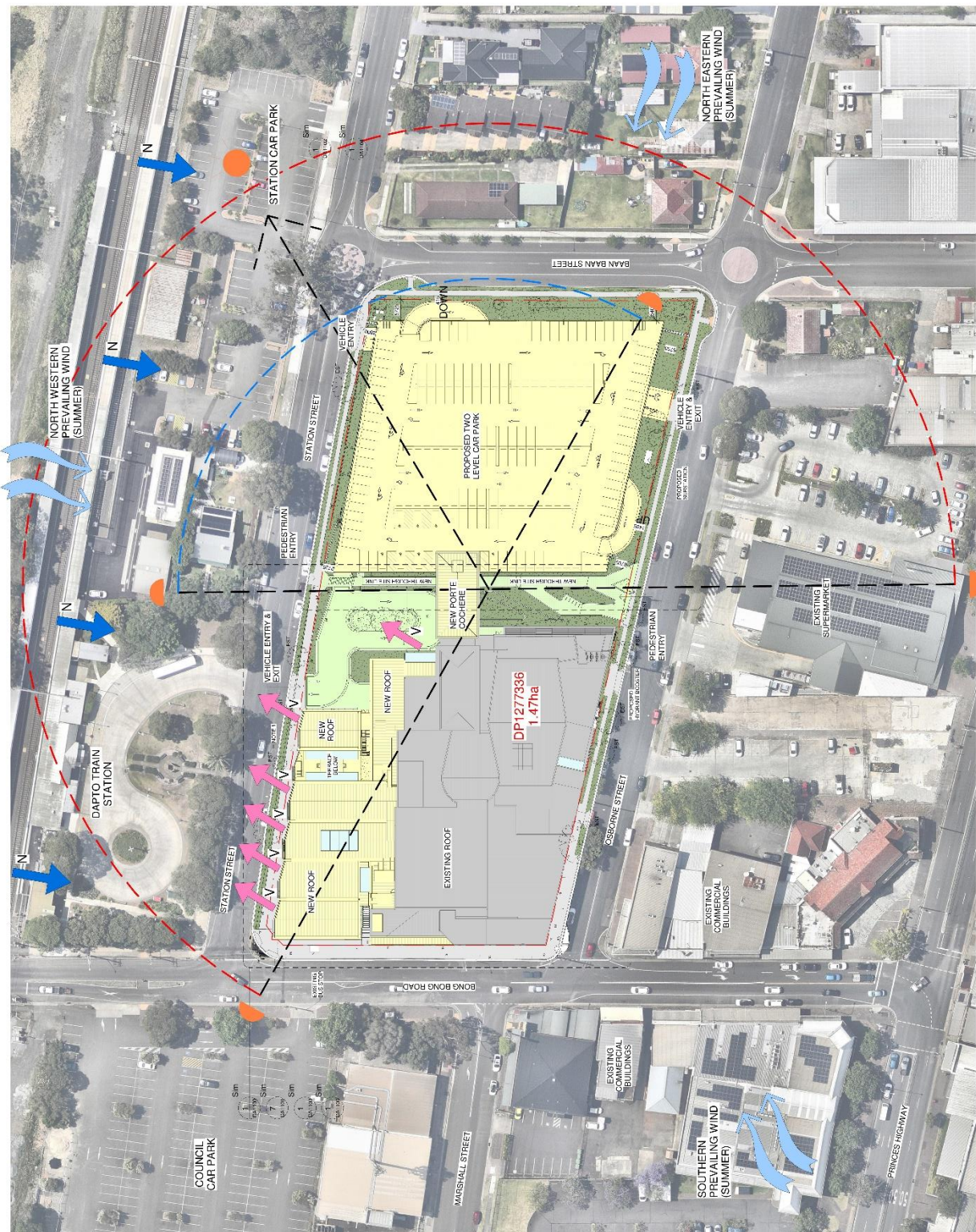
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p 12 2961 9021 / 612 4571 7930 loose desk case bag what
sillo 123-28-82 giraffe road pyramid new 2006 australia

SITE ANALYSIS



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ADAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

10

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ARCHITECTURE

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sults 123:28-32 original road payment new 2006 analysis

SHADOW DIAGRAM - SUMMER SOLSTICE

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DEPARTMENT	2219.03	PROJECT NO.	2219.03
BY	BK	UNCLASSIFIED BY	DC
REASON	As indicated	DATE	2011



**DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT**

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ARCHITECTURE

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SHADOW DIAGRAM - SUMMER SOLSTICE



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BK	2219.03			E
WFO FILE				



DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

ALTIS
ARCHITECTURE

p 612 8264 9002 f 612 8531 7930 lower disk | cras bay wharf
subto 123'± 82 300m road pymont nov 2006 australia

SHADOW DIAGRAM - WINTER SOLSTICE

[illegible]

1	EXISTING WINTER SOLSTICE 9am
2	EXISTING WINTER SOLSTICE 12pm (noon)
3	EXISTING WINTER SOLSTICE 3pm
4	WINTER SOLSTICE 9am
5	WINTER SOLSTICE 12pm (noon)
6	WINTER SOLSTICE 3pm

LEGEND

- EXISTING OF EXISTING CLUB, NO WORKS
- NEW BUILD TO HAVE BUILDING WORKS
- EXISTING OF EXISTING CLUB TO BE RECONSTRUCTED
- NEW BUILDING WORKS
- EXISTING OF EXISTING CLUB TO BE RECONSTRUCTED
- NEW BUILDING WORKS
- EXISTING OF EXISTING CLUB TO BE RECONSTRUCTED
- NEW BUILDING WORKS



DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

ALTIS
ARCHITECTURE

45-47 BROADWAY, SUITE 101, DAPTO, NSW 2556
02 6921 1010 | 02 6921 1011 | 02 6921 1012

SHADOW DIAGRAM - WINTER
SOLSTICE



DATE	15/11/2023
PROJECT	DAPTO LEAGUES CLUB NORTH WING REFURBISHMENT
CLIENT	DAPTO LEAGUES CLUB
DESIGNER	ALTIS ARCHITECTURE
DATE	15/11/2023
PROJECT	DAPTO LEAGUES CLUB NORTH WING REFURBISHMENT
CLIENT	DAPTO LEAGUES CLUB
DESIGNER	ALTIS ARCHITECTURE



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1:1500



4 WINTER SOLSTICE 12pm (noon)
1:1500



6 WINTER SOLSTICE 3pm
1:1500



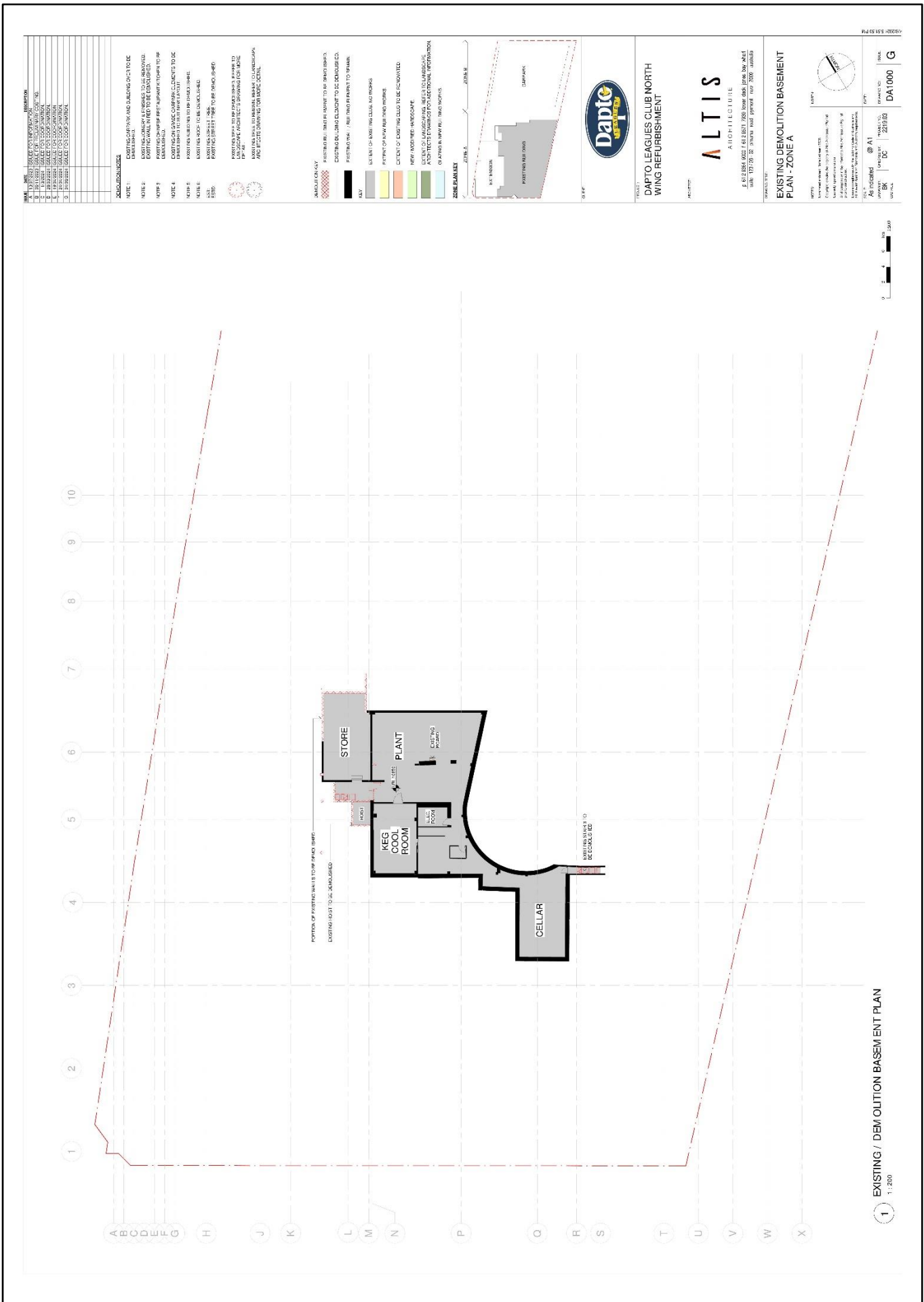
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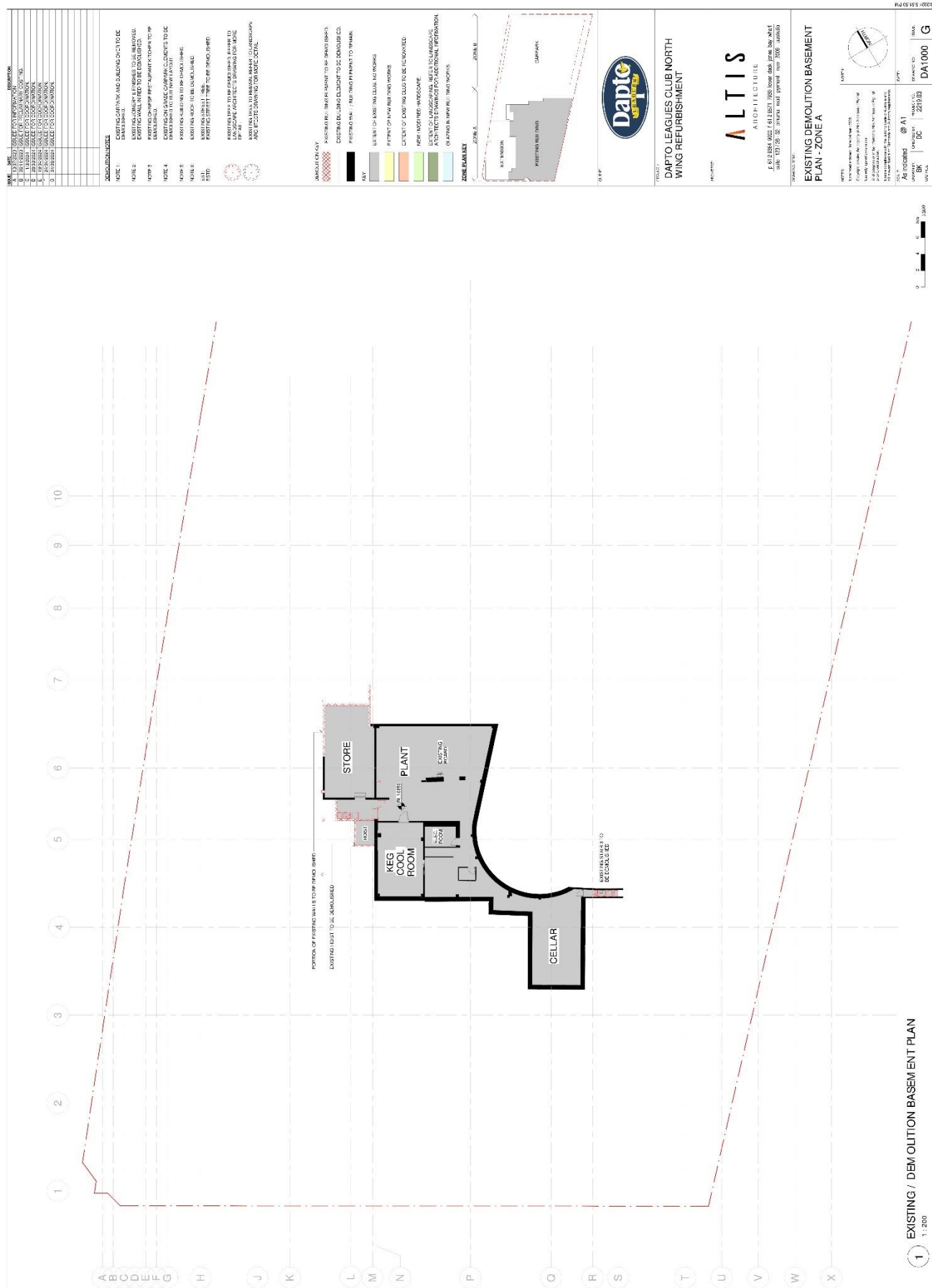


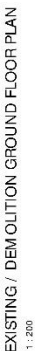
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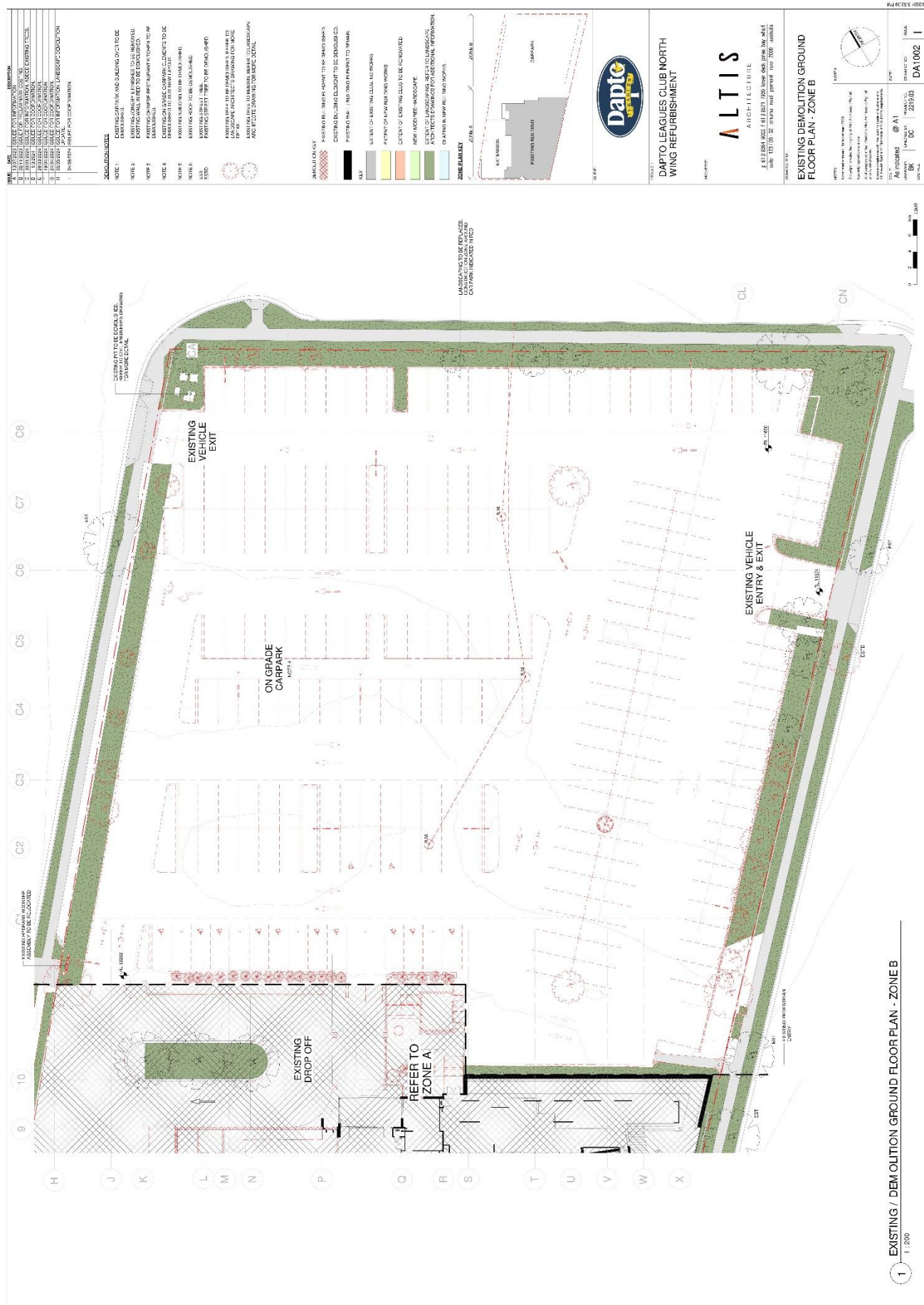
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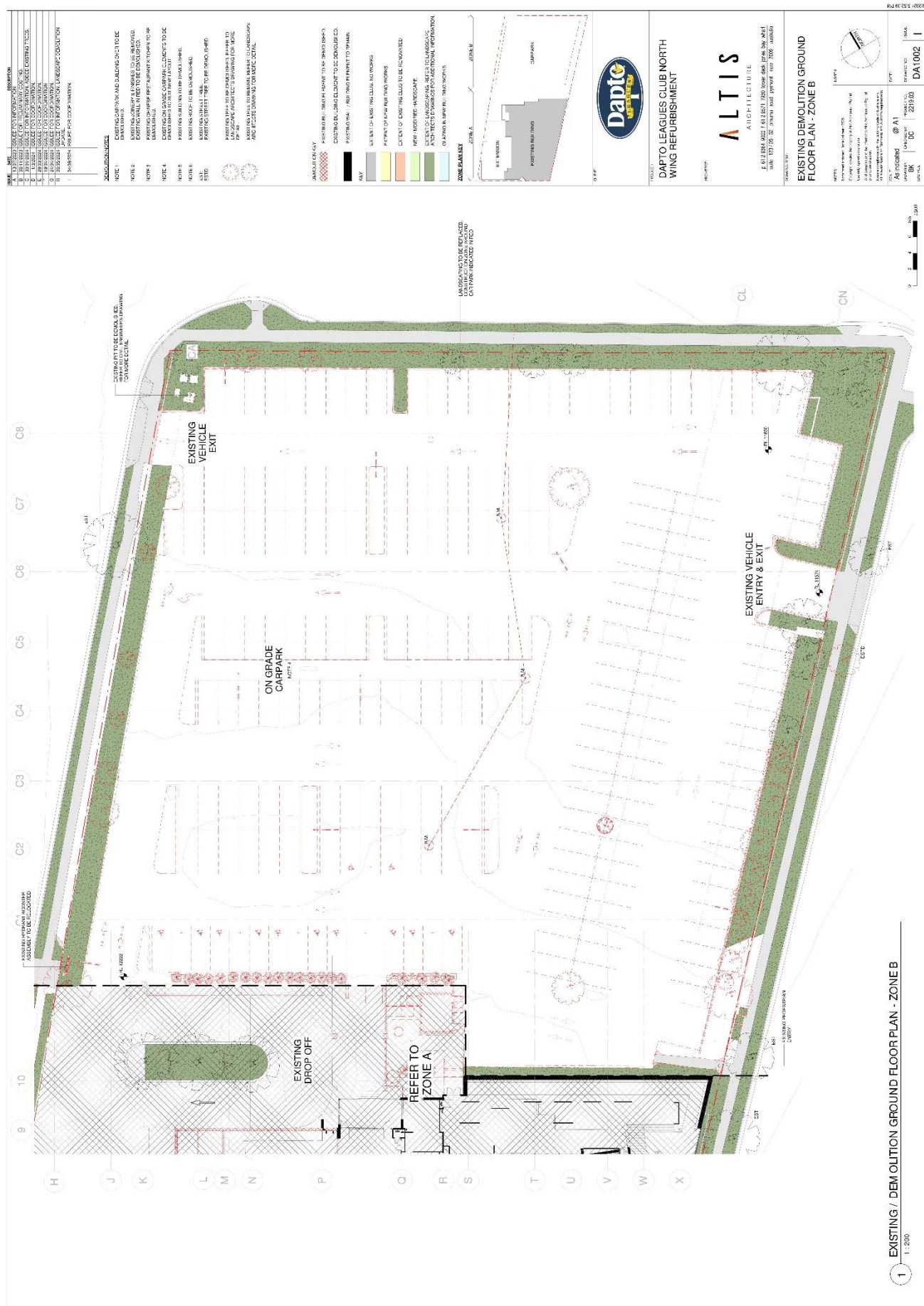


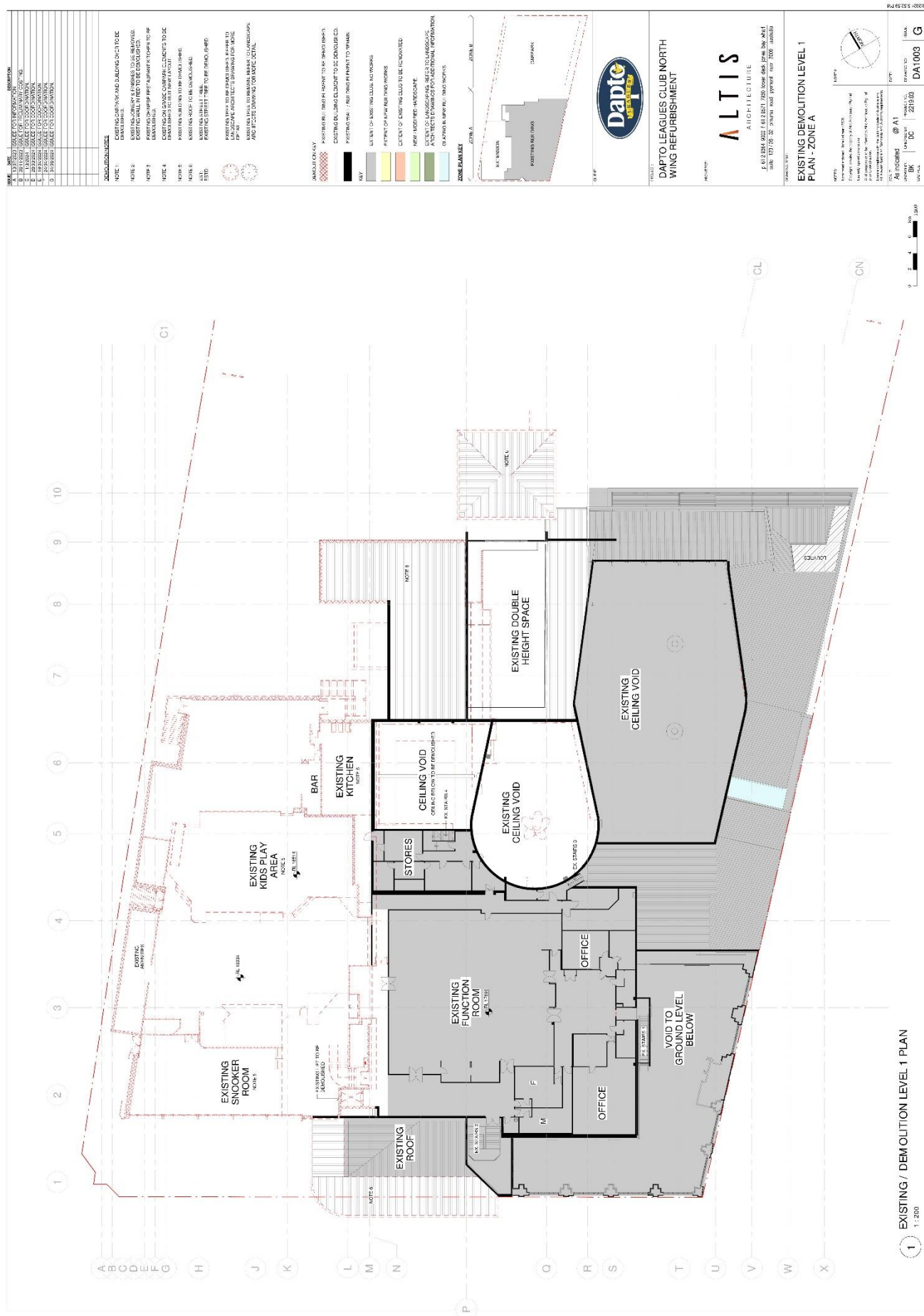


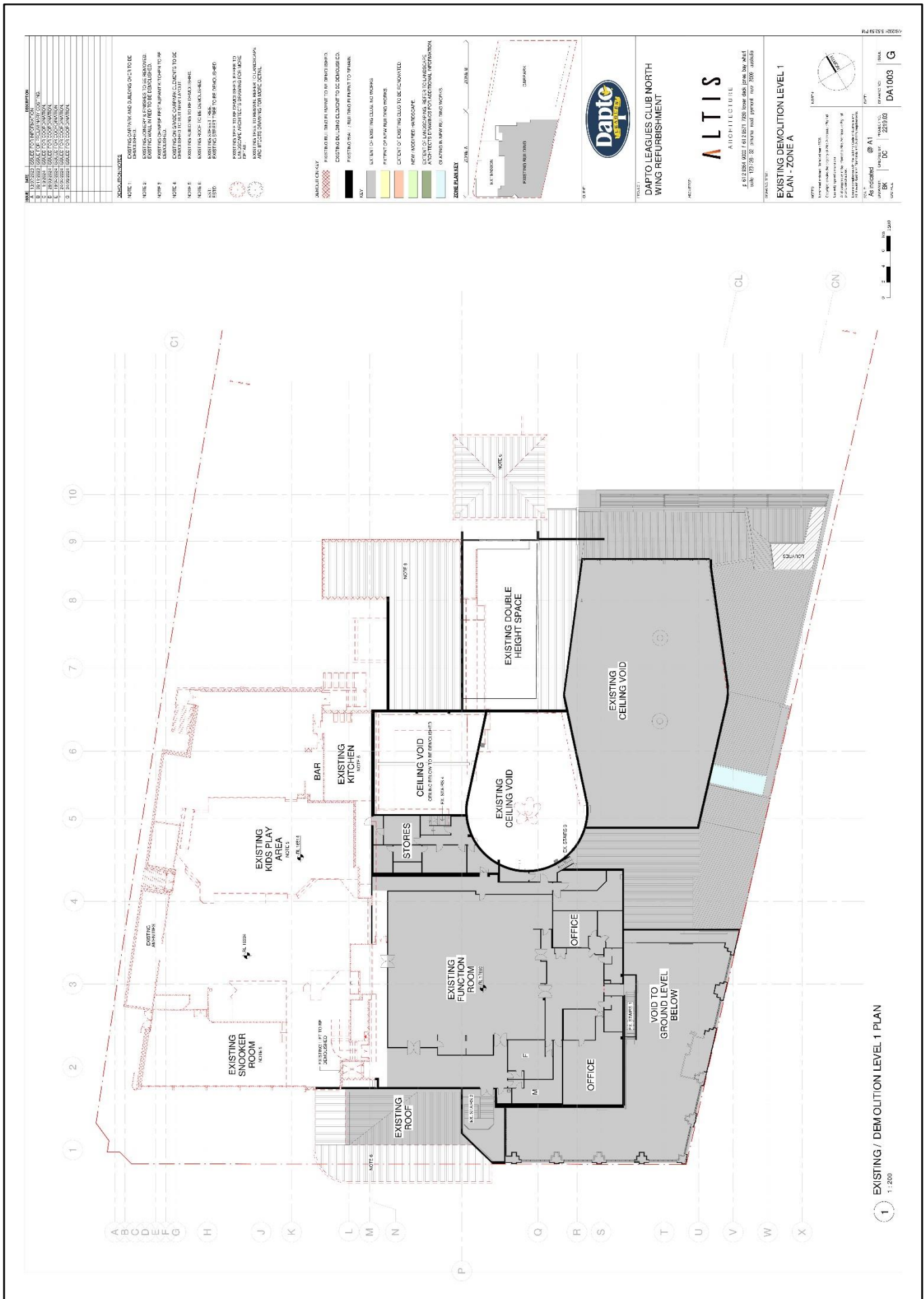


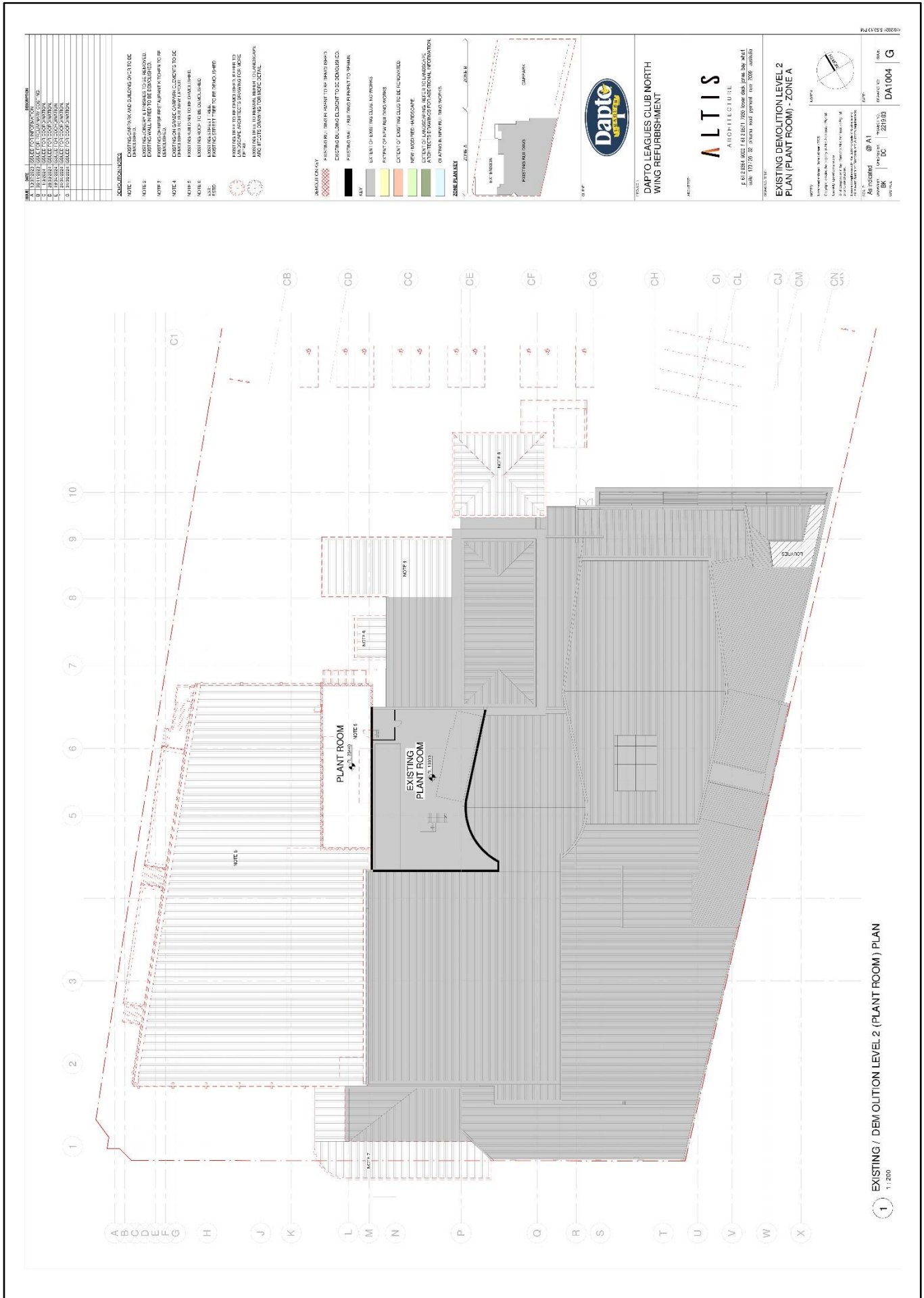






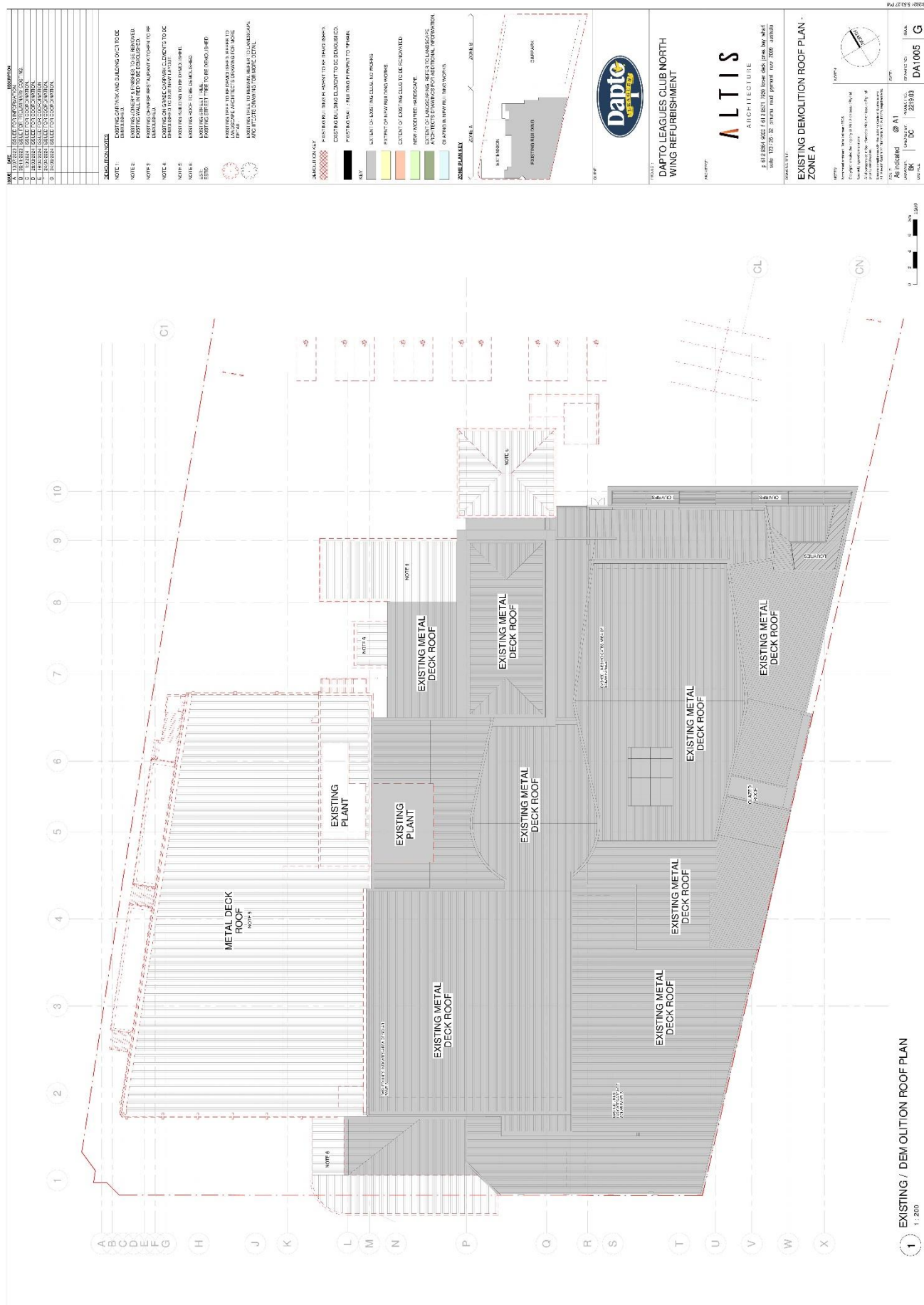


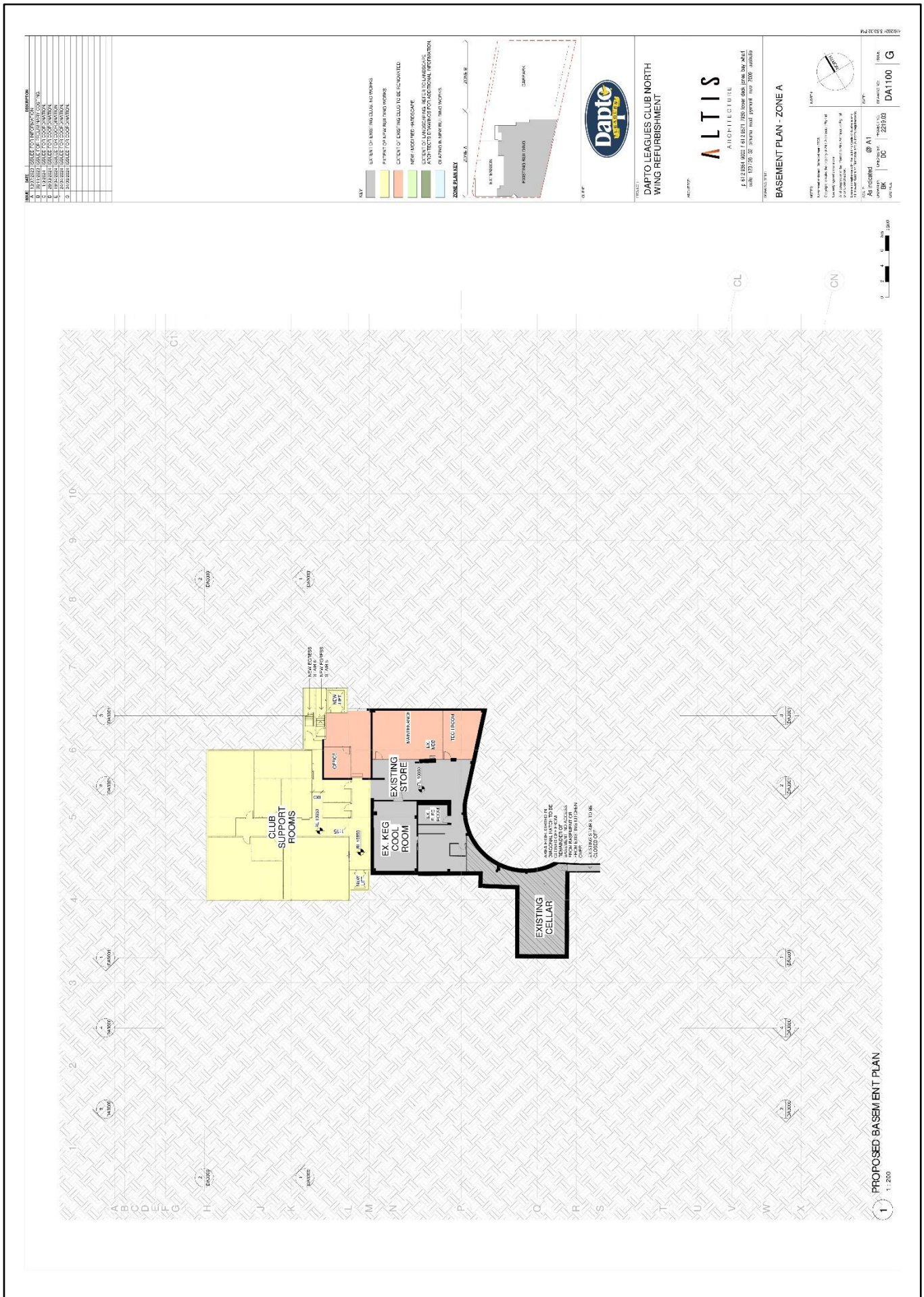


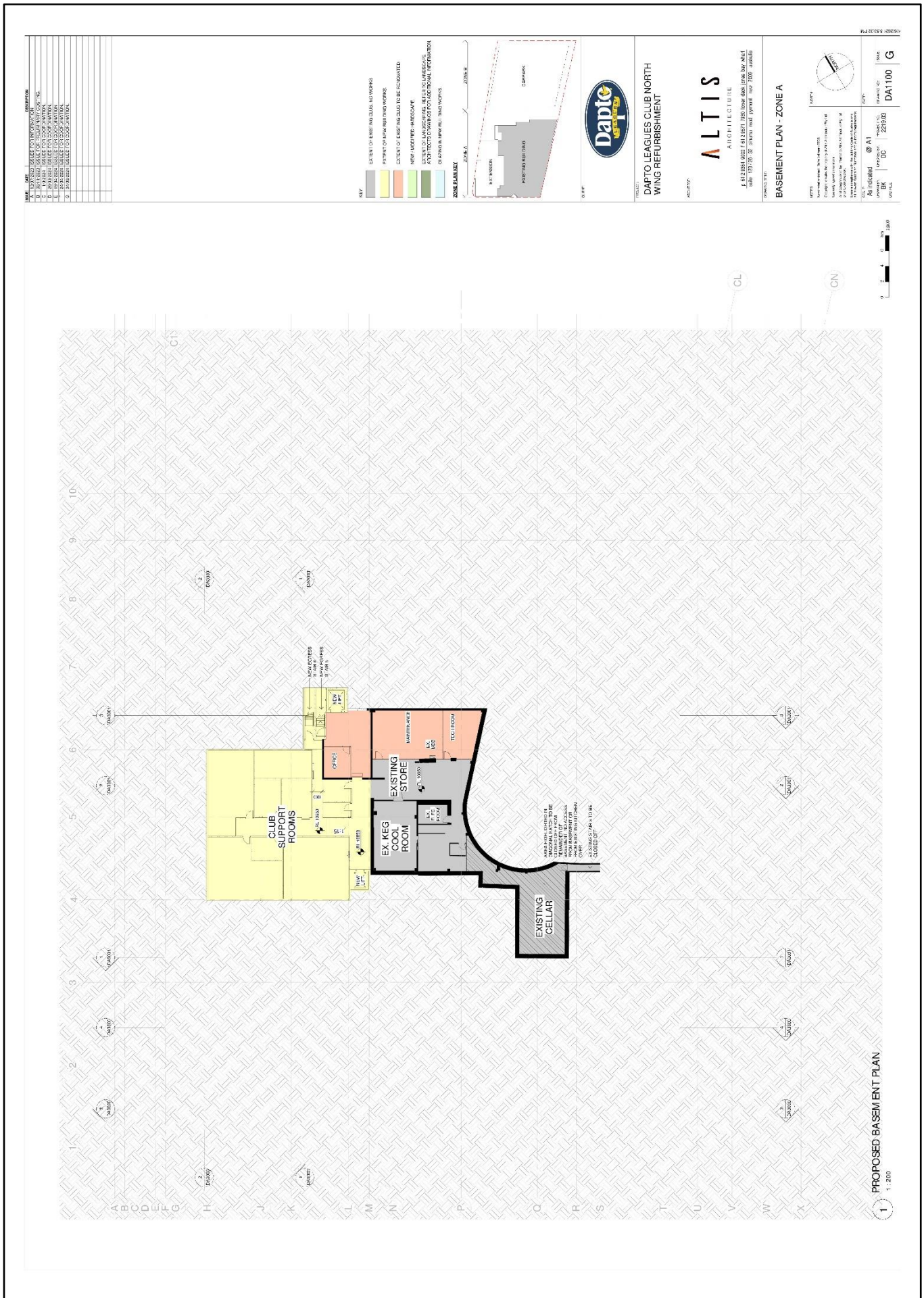






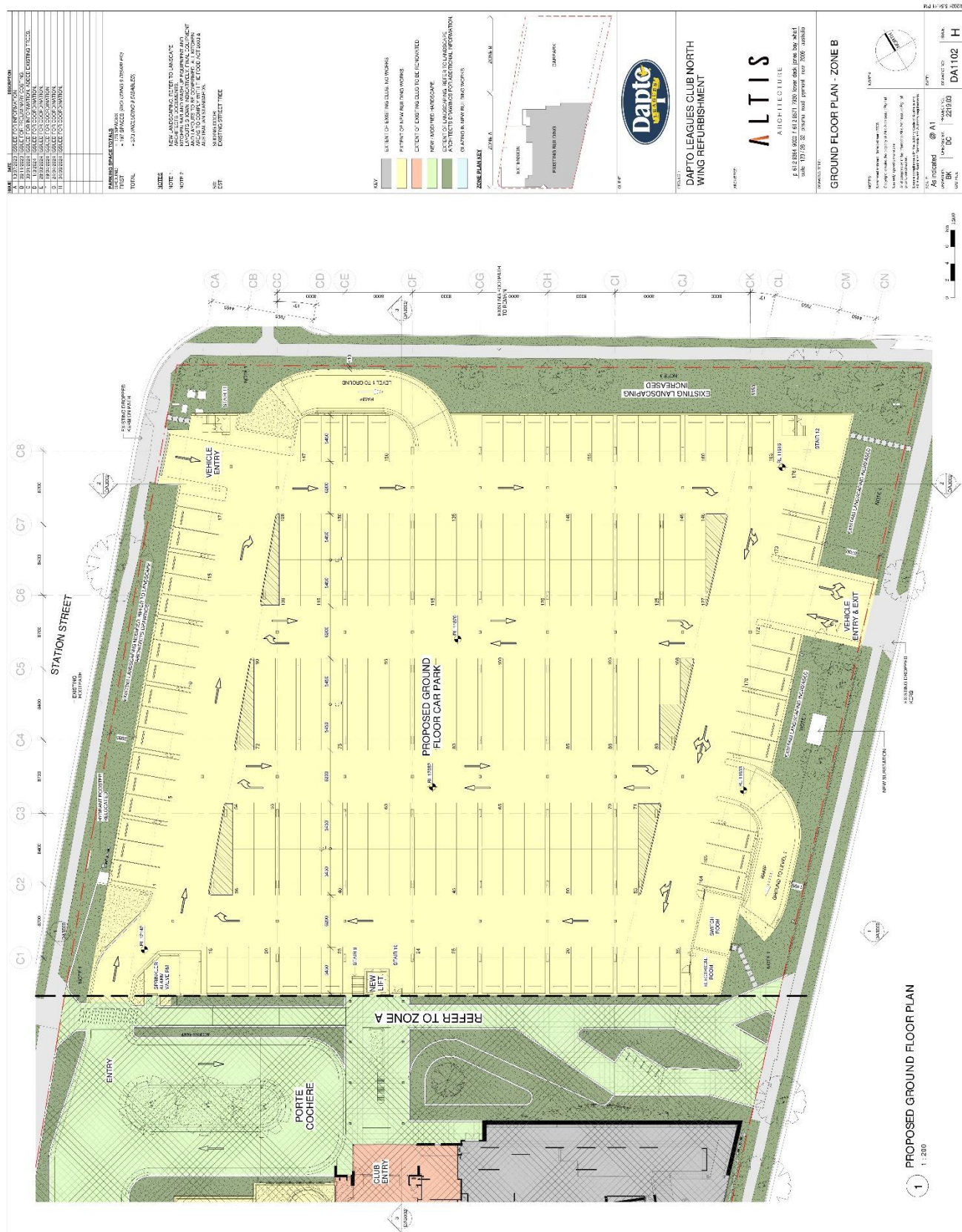


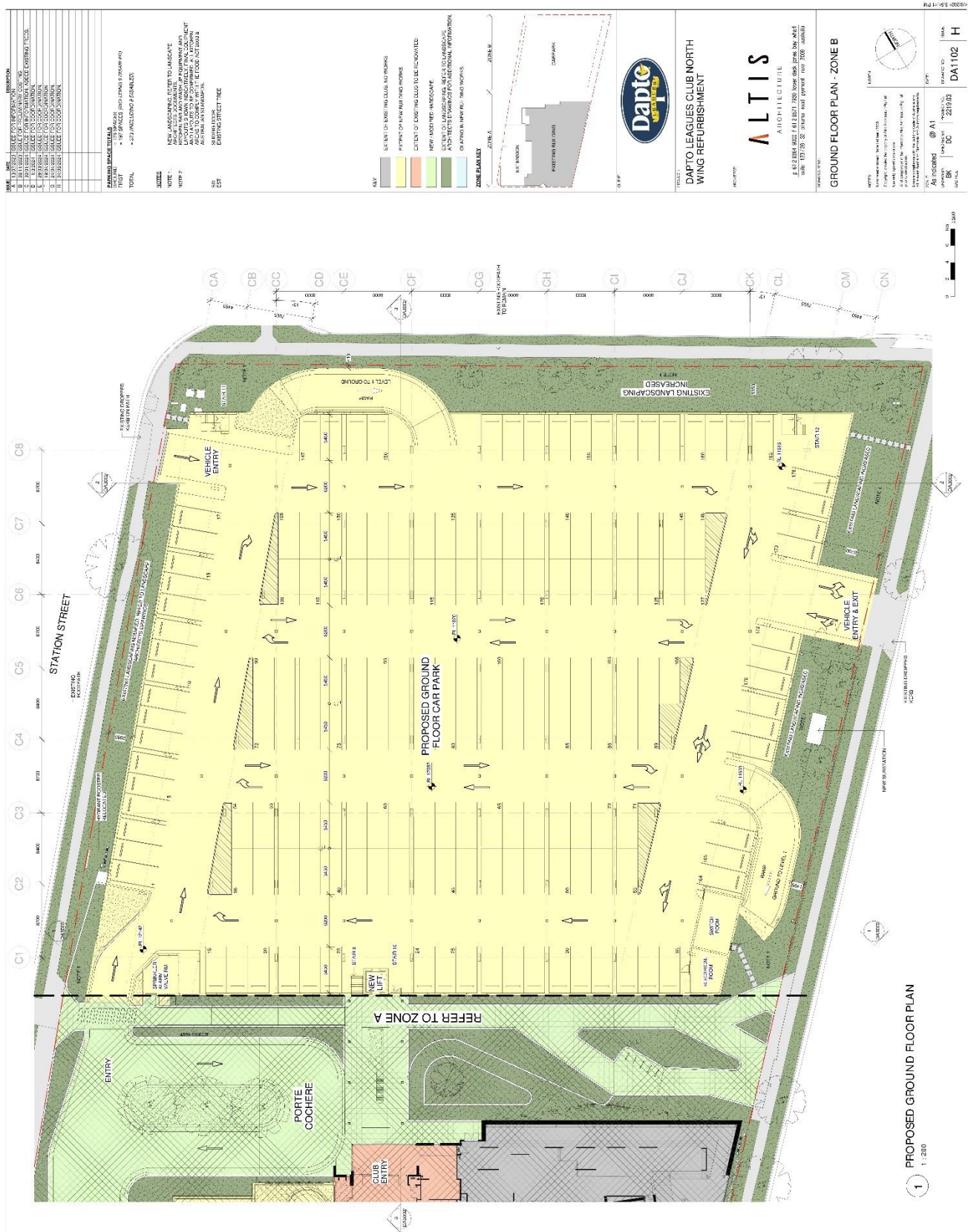


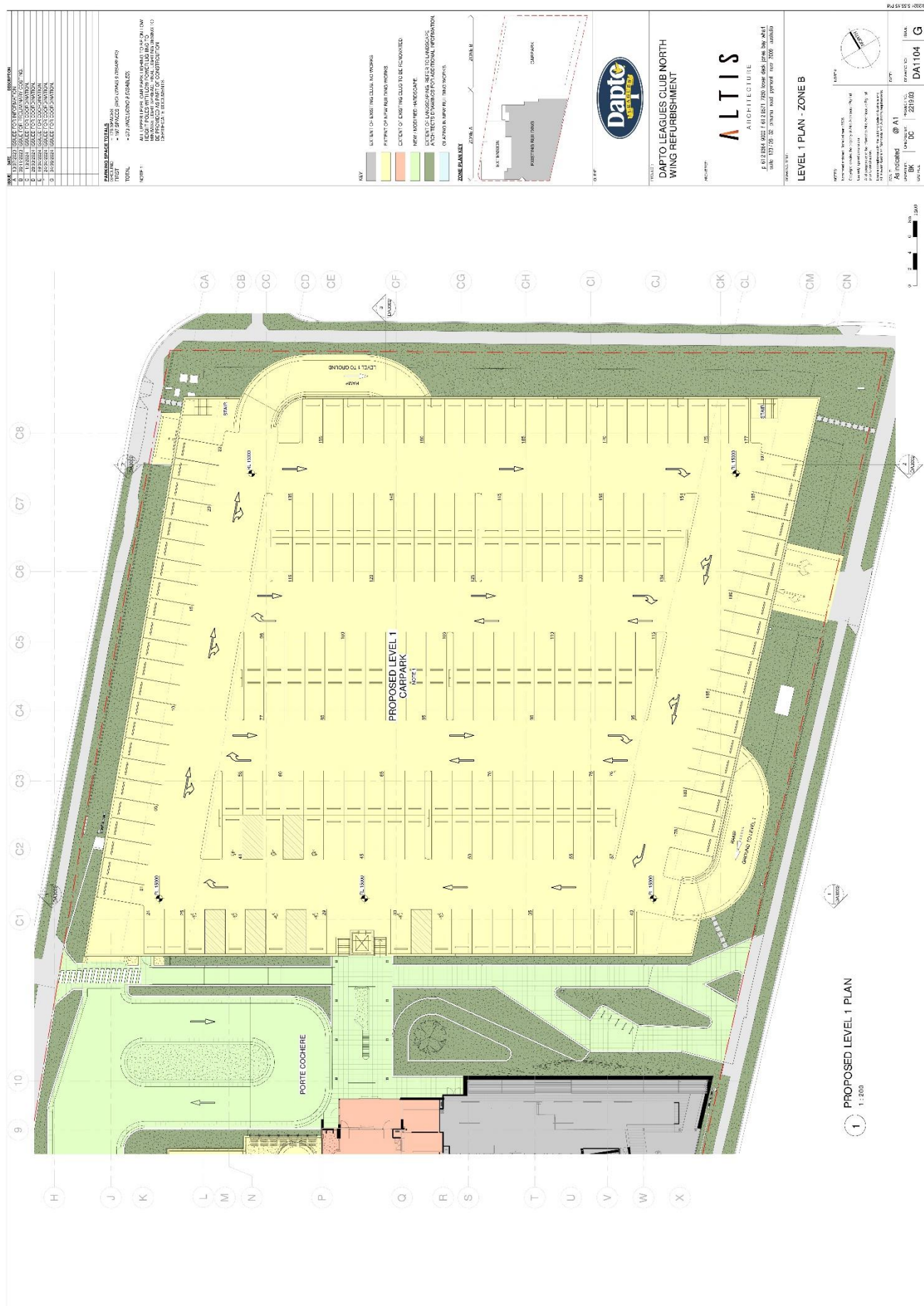


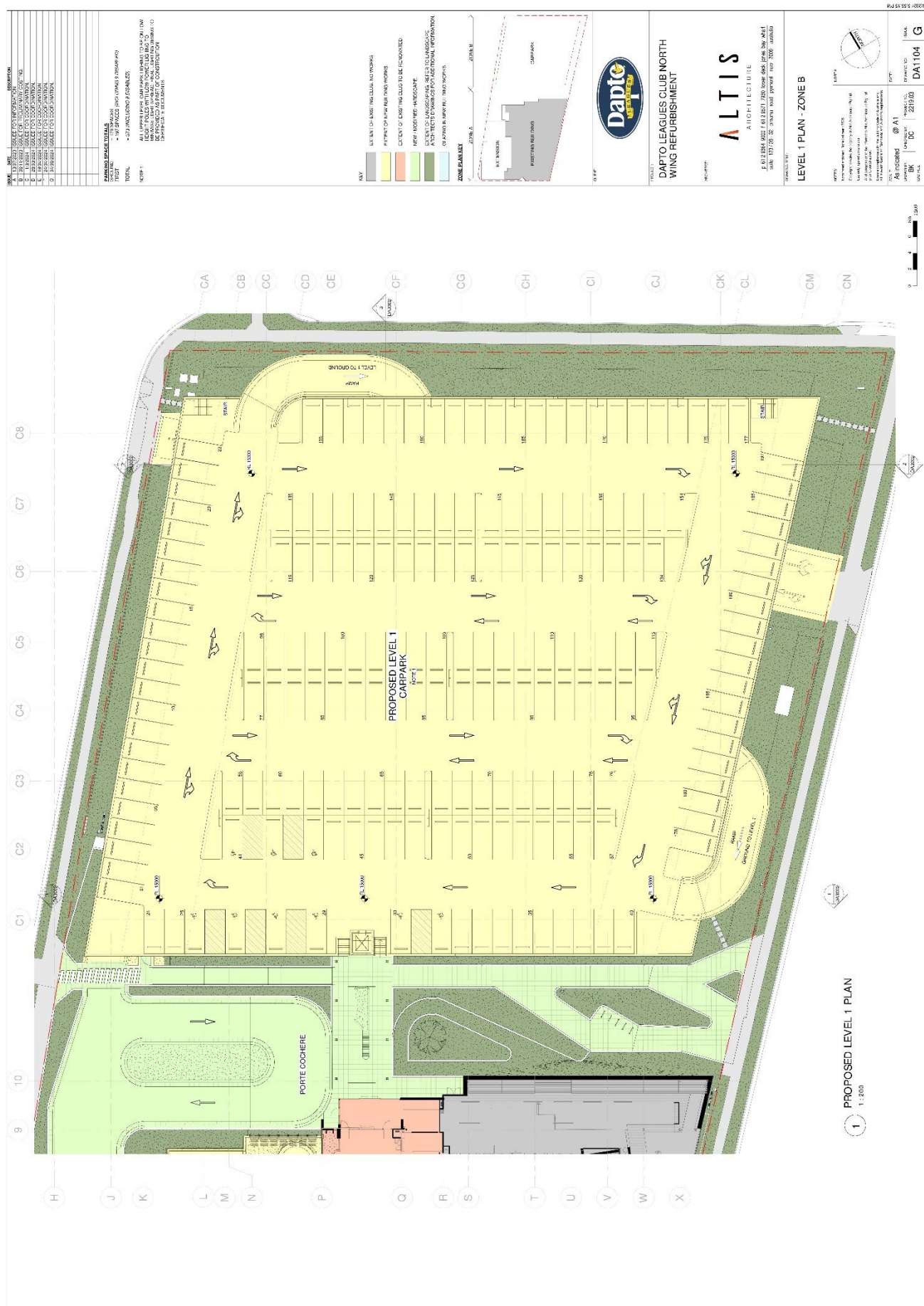


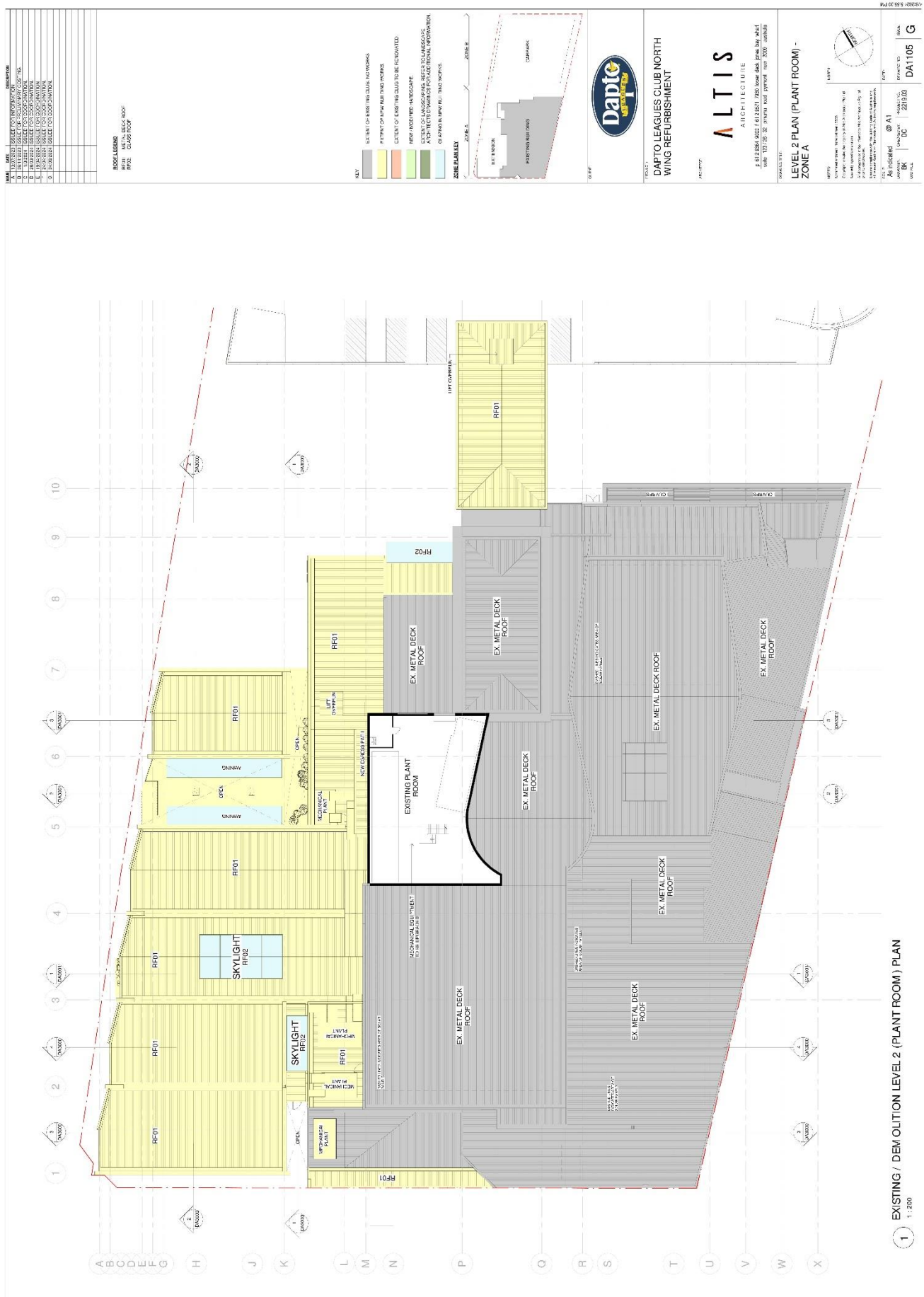


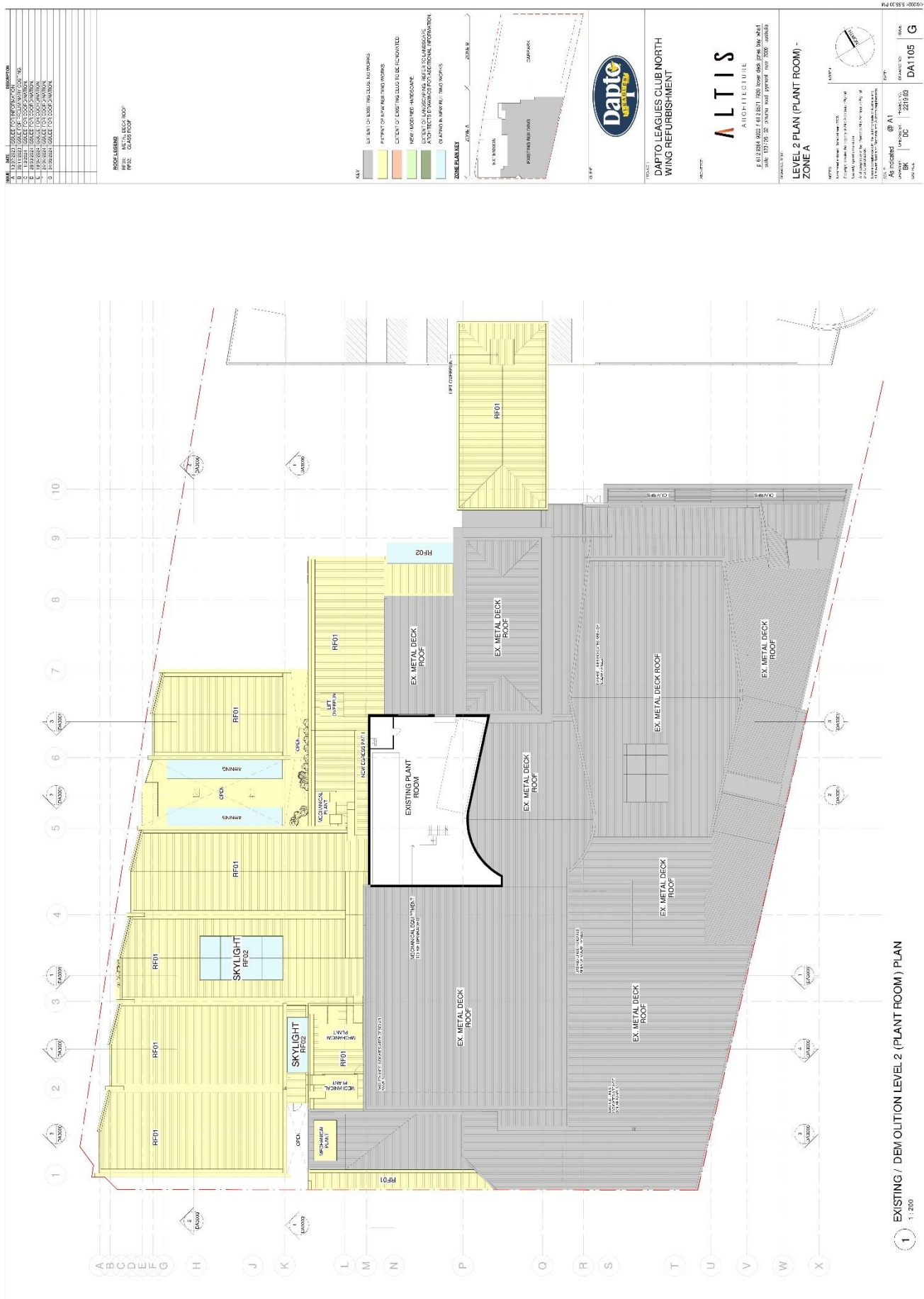








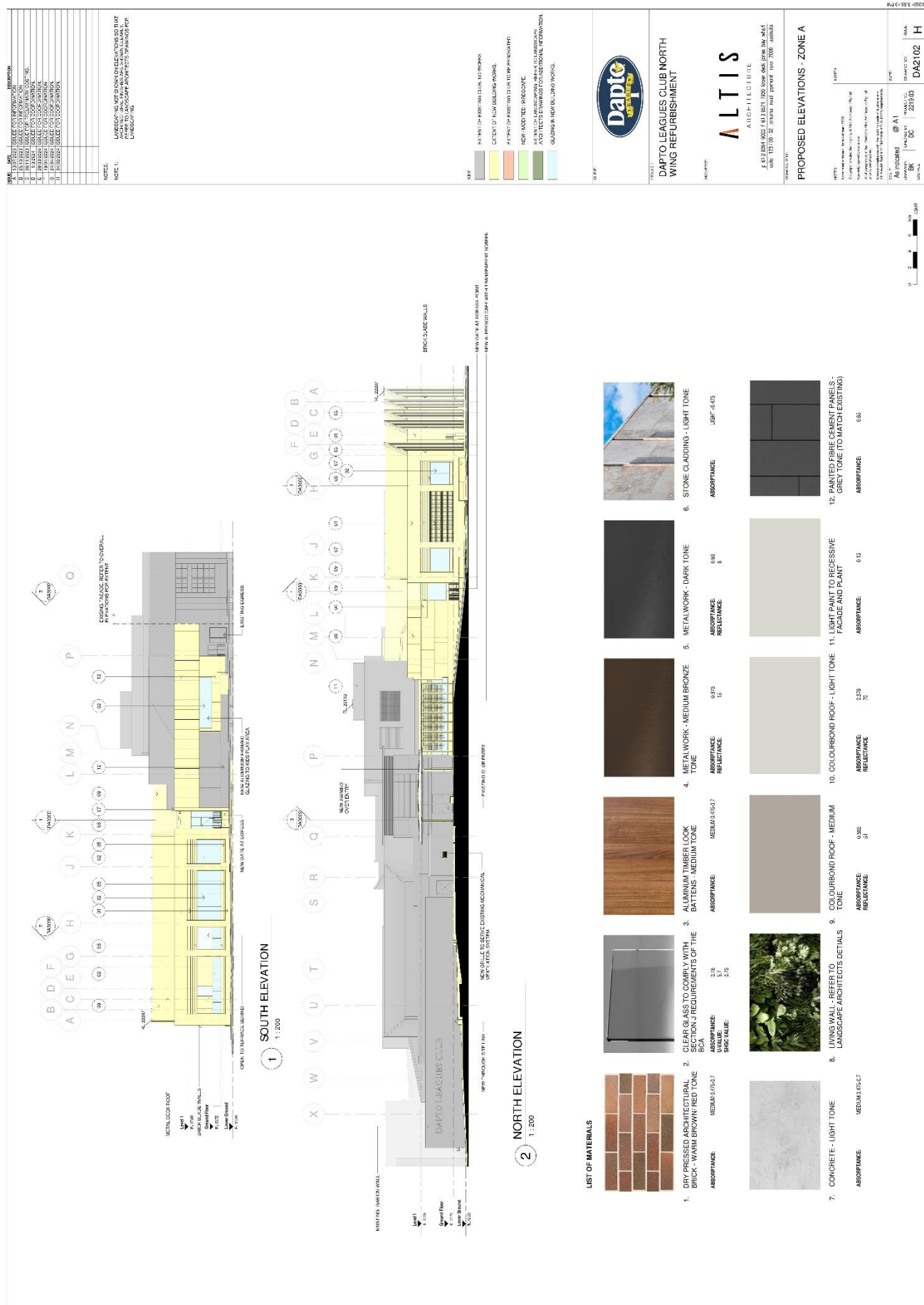












NO.	REV.	DESCRIPTION
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3	2	REVISION: GATE TO CAR PARK ENTRY
4	3	REVISION: GATE TO CAR PARK ENTRY
5	4	REVISION: GATE TO CAR PARK ENTRY
6	5	REVISION: GATE TO CAR PARK ENTRY
7	6	REVISION: GATE TO CAR PARK ENTRY
8	7	REVISION: GATE TO CAR PARK ENTRY
9	8	REVISION: GATE TO CAR PARK ENTRY
10	9	REVISION: GATE TO CAR PARK ENTRY

NOTES:
NOTE 1:
LANDSCAPING NOTES ON ELEVATIONS TO BE
PROVIDED BY THE LANDSCAPE ARCHITECT
FOR THE LANDSCAPING WORKS.

KEY:

- EXISTING CURB/PAVEMENT SURFACING
- EXISTING CONC RETAINING WALL
- EXISTING CONC RETAINING WALL TO BE REINFORCED
- NEW CONC RETAINING WALL
- NEW CONC RETAINING WALL WITH ELEVATIONS AND TIES TO EXISTING STRUCTURAL INFORMATION
- EXISTING CONC RETAINING WALL WITH ELEVATIONS AND TIES TO EXISTING STRUCTURAL INFORMATION

Dapto
LANDSCAPE ARCHITECTURE

ALTIS
ARCHITECTURE

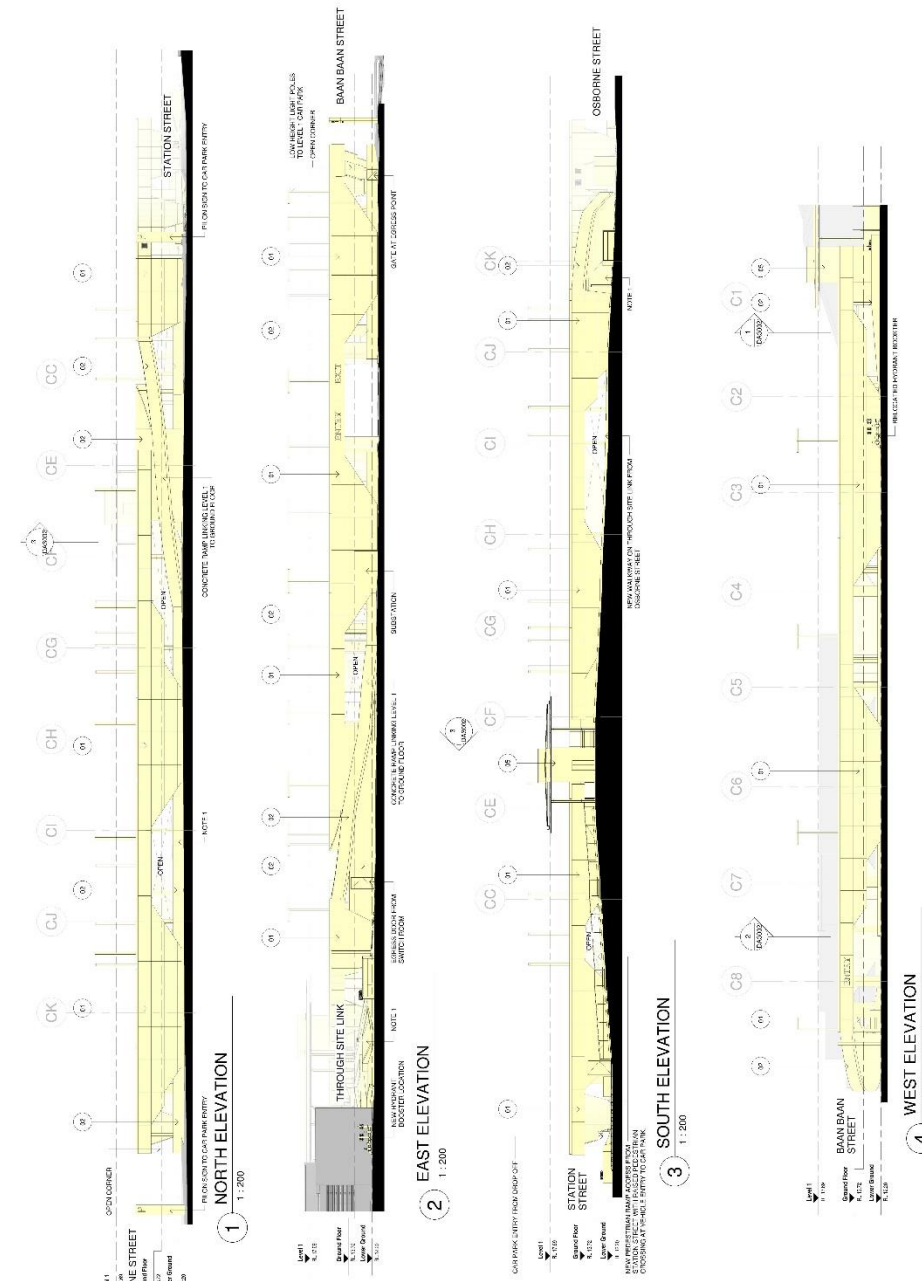
4/4/2024 10:00 AM
4/4/2024 10:00 AM
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4/4/2024 10:00 AM

PROPOSED ELEVATIONS - ZONE B

NOTES:
1. ALL ELEVATIONS ARE TO BE PROVIDED BY THE LANDSCAPE ARCHITECT FOR THE LANDSCAPING WORKS.
2. ALL ELEVATIONS ARE TO BE PROVIDED BY THE LANDSCAPE ARCHITECT FOR THE LANDSCAPING WORKS.
3. ALL ELEVATIONS ARE TO BE PROVIDED BY THE LANDSCAPE ARCHITECT FOR THE LANDSCAPING WORKS.

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BY: [Signature]
FOR: [Signature]

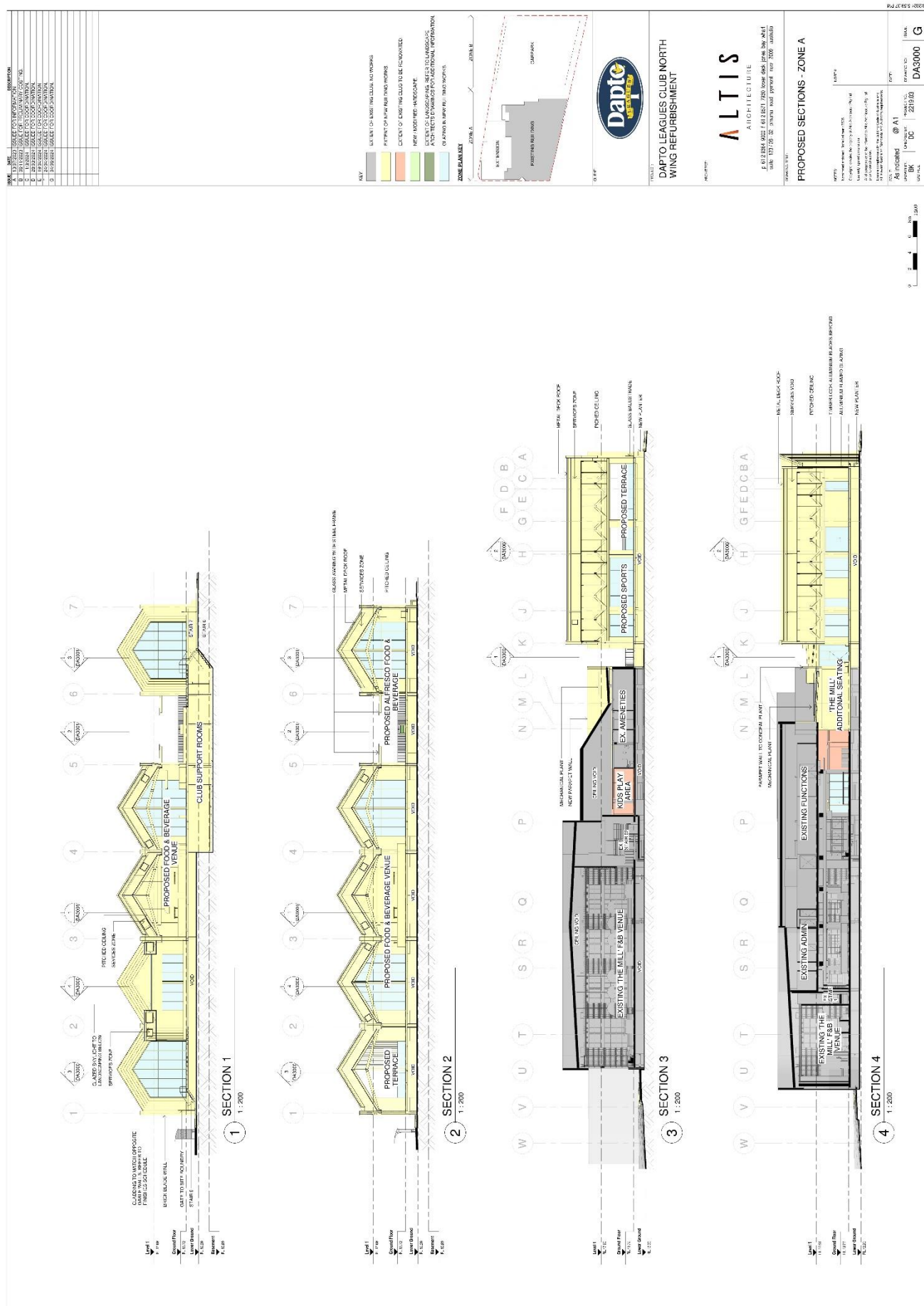
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SHEET: 22/19/0
SCALE: 1:200

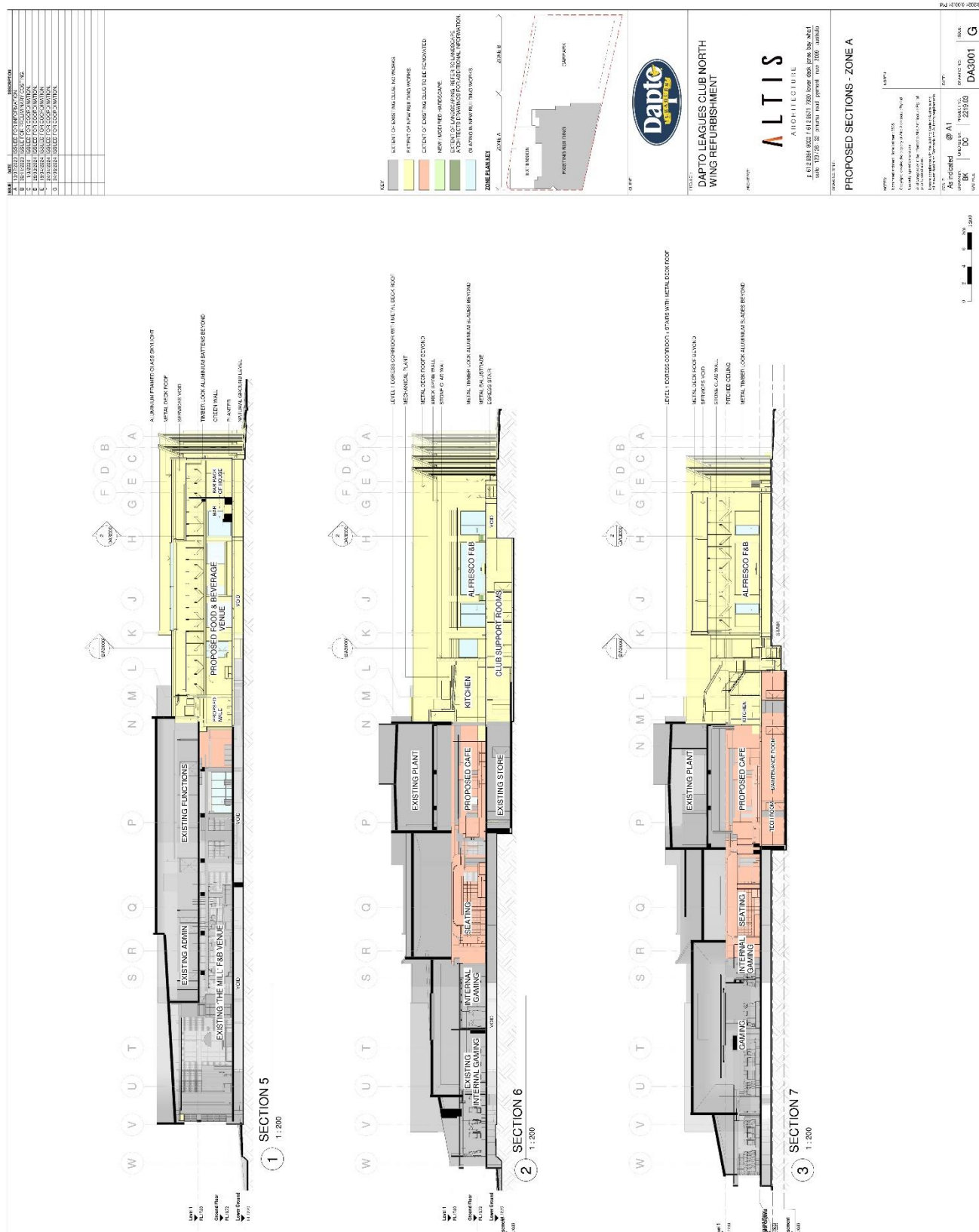


LIST OF MATERIALS

NO.	DESCRIPTION	ABSORPTANCE	REFLECTANCE
1.	LIVING WALL - REFER TO LANDSCAPE ARCHITECTS DETAILS		
2.	CONCRETE PLINTH PLANTERS - LIGHT TONE	0.10	0.80
3.	MEDIUM BRONZE TONE METALWORK	0.20	0.80
4.	DARK TONE METALWORK	0.30	0.80
5.	NATURAL LIGHT TONE STONE CLADDING	0.10	0.80









[illegible]

100

ARCHITECTURE

p 612 8264 9002 f 612 8571 7930 lower deck | cras bay whet
sulle 123/26 32 granaia road piment nov 2006 australia

CONCLUSIONS

3D VIEWS

Category	Value
Category 1	Value 1
Category 2	Value 2
Category 3	Value 3
Category 4	Value 4
Category 5	Value 5
Category 6	Value 6
Category 7	Value 7
Category 8	Value 8
Category 9	Value 9
Category 10	Value 10
Category 11	Value 11
Category 12	Value 12
Category 13	Value 13
Category 14	Value 14
Category 15	Value 15
Category 16	Value 16
Category 17	Value 17
Category 18	Value 18
Category 19	Value 19
Category 20	Value 20
Category 21	Value 21
Category 22	Value 22
Category 23	Value 23
Category 24	Value 24
Category 25	Value 25
Category 26	Value 26
Category 27	Value 27
Category 28	Value 28
Category 29	Value 29
Category 30	Value 30
Category 31	Value 31
Category 32	Value 32
Category 33	Value 33
Category 34	Value 34
Category 35	Value 35
Category 36	Value 36
Category 37	Value 37
Category 38	Value 38
Category 39	Value 39
Category 40	Value 40
Category 41	Value 41
Category 42	Value 42
Category 43	Value 43
Category 44	Value 44
Category 45	Value 45
Category 46	Value 46
Category 47	Value 47
Category 48	Value 48
Category 49	Value 49
Category 50	Value 50
Category 51	Value 51
Category 52	Value 52
Category 53	Value 53
Category 54	Value 54
Category 55	Value 55
Category 56	Value 56
Category 57	Value 57
Category 58	Value 58
Category 59	Value 59
Category 60	Value 60
Category 61	Value 61
Category 62	Value 62
Category 63	Value 63
Category 64	Value 64
Category 65	Value 65
Category 66	Value 66
Category 67	Value 67
Category 68	Value 68
Category 69	Value 69
Category 70	Value 70
Category 71	Value 71
Category 72	Value 72
Category 73	Value 73
Category 74	Value 74
Category 75	Value 75
Category 76	Value 76
Category 77	Value 77
Category 78	Value 78
Category 79	Value 79
Category 80	Value 80
Category 81	Value 81
Category 82	Value 82
Category 83	Value 83
Category 84	Value 84
Category 85	Value 85
Category 86	Value 86
Category 87	Value 87
Category 88	Value 88
Category 89	Value 89
Category 90	Value 90
Category 91	Value 91
Category 92	Value 92
Category 93	Value 93
Category 94	Value 94
Category 95	Value 95
Category 96	Value 96
Category 97	Value 97
Category 98	Value 98
Category 99	Value 99
Category 100	Value 100

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There are many reasons why the results of this study may not be generalizable to other populations. First, the study was conducted in a single institution, and the results may not be generalizable to other institutions. Second, the study was conducted in a single country, and the results may not be generalizable to other countries. Third, the study was conducted in a single time period, and the results may not be generalizable to other time periods. Fourth, the study was conducted in a single population, and the results may not be generalizable to other populations. Finally, the study was conducted in a single setting, and the results may not be generalizable to other settings.

524 P.

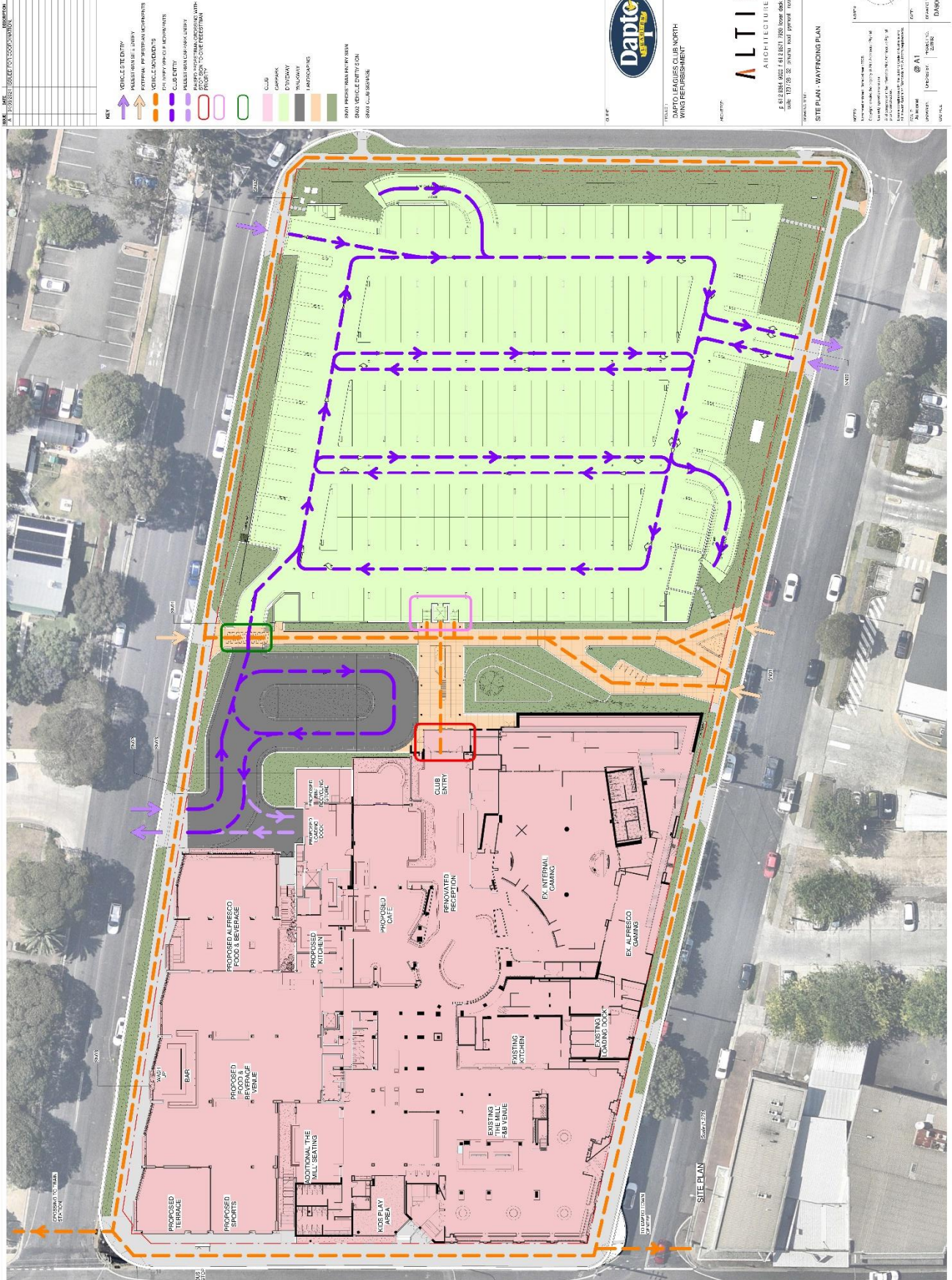
1:20

4.3.18
4.3.19

CHAP. 11.2

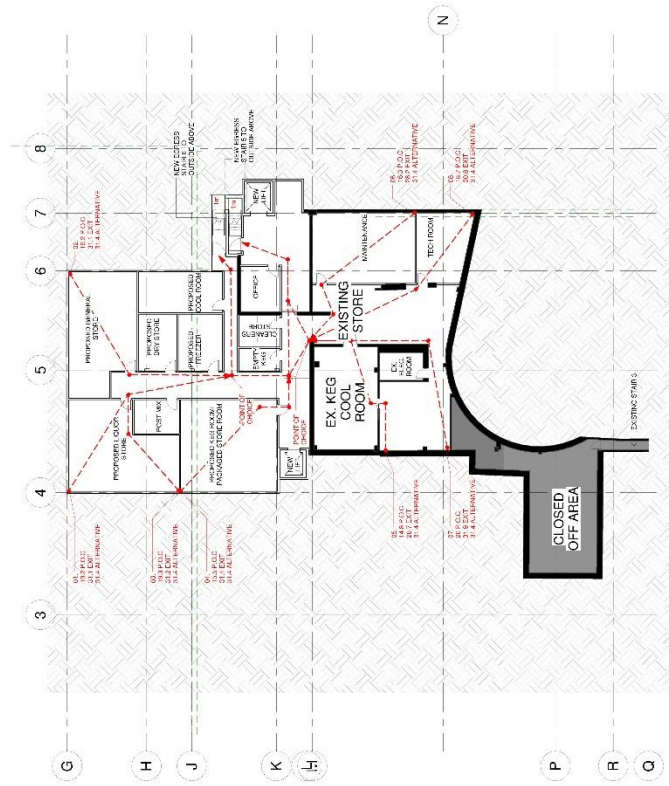
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REVISION

NO.	DATE	BY	DESCRIPTION



1 BASEMENT EGRESS PLAN
1:200



DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT



ALTIS ARCHITECTURE
15/15/2018 15/15/2018 15/15/2018 15/15/2018
15/15/2018 15/15/2018 15/15/2018 15/15/2018

BASEMENT FLOOR PLAN EGRESS

<p>PROJECT: Dapto Leagues Club North Wing Refurbishment</p> <p>DATE: 15/15/2018</p> <p>BY: ALTIS ARCHITECTURE</p>		<p>SCALE: 1:200</p> <p>DATE: 15/15/2018</p> <p>BY: ALTIS ARCHITECTURE</p>
<p>DESIGNER: ALTIS ARCHITECTURE</p> <p>DATE: 15/15/2018</p> <p>BY: ALTIS ARCHITECTURE</p>	<p>CLIENT: Dapto Leagues Club North Wing Refurbishment</p> <p>DATE: 15/15/2018</p> <p>BY: ALTIS ARCHITECTURE</p>	<p>PROJECT NO: SK-001</p> <p>DATE: 15/15/2018</p> <p>BY: ALTIS ARCHITECTURE</p>

AREA	ASSUMED OCCUPATION
THE MILL	550
THE MILL EXTENSION	95
GAMING	242
CAFE	290
B&F VENUE	600
RECEPTION	4
DOCK	4
TOTAL	1,780
EGRESS WIDTH REQUIRED	15.2M
EGRESS WIDTH PROVIDED	15.2M
2M=200 PATRONS	
0.5M = 60 PATRONS	



FIGURE 1
DAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

ALTIS
ARCHITECTURE

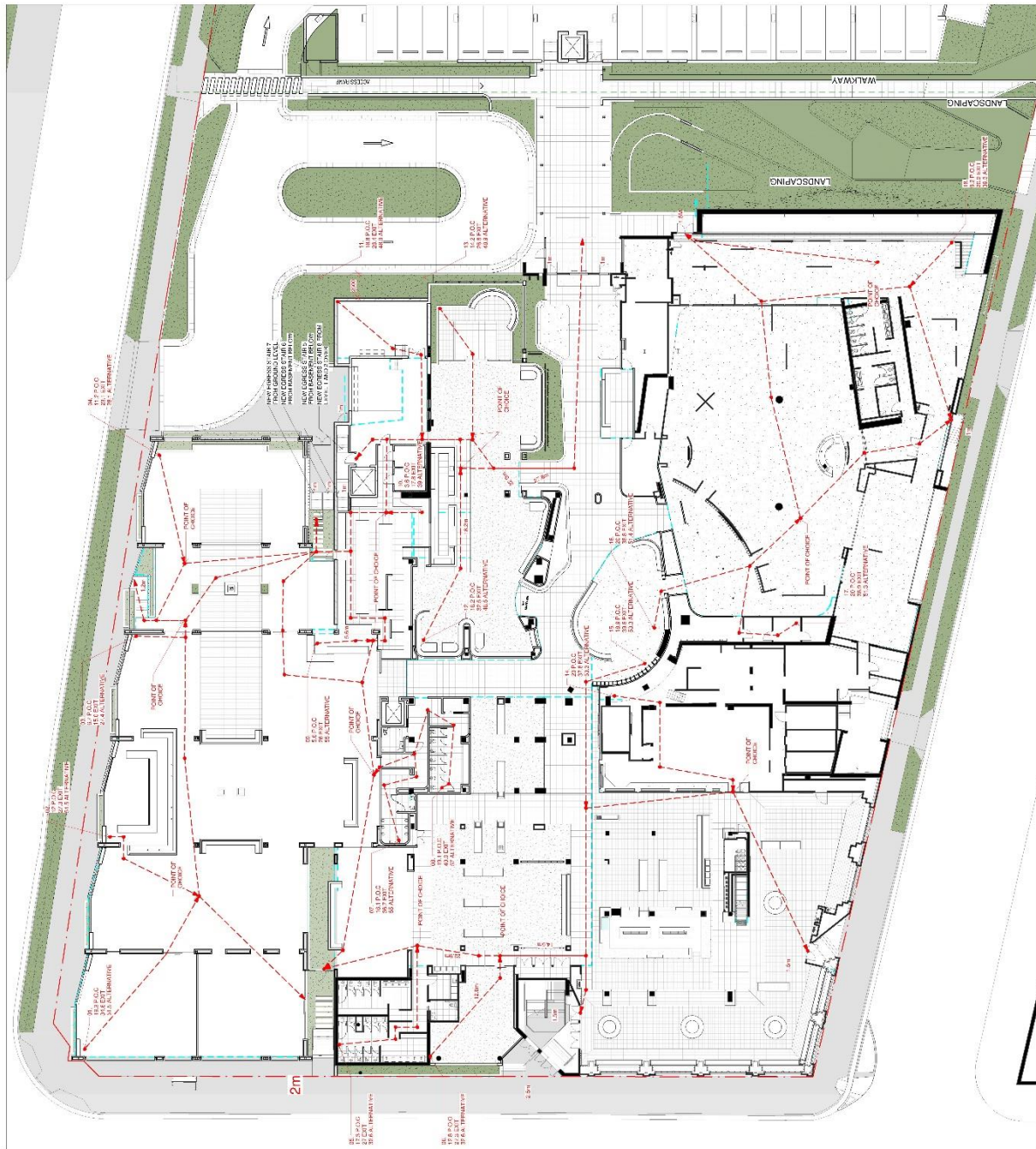
p 612 9261 9002 f 612 6571 7930 loose deck |truss bay wheel
sails 123/26 32 370000 total payload near 2000 available

GROUND FLOOR PLAN-ZONE A -
EGRESS

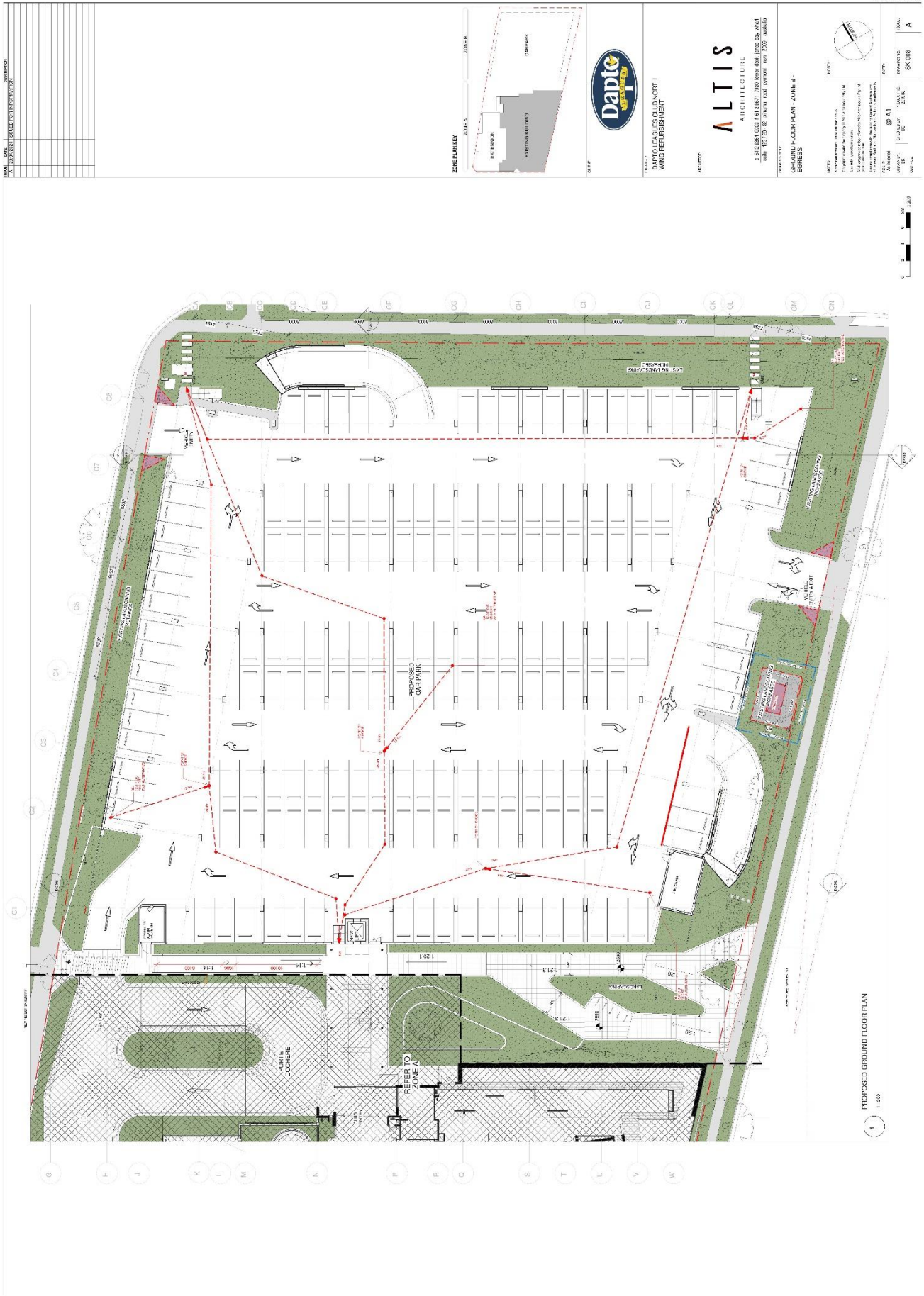


Abstract
 A new method is described for the analysis of the
 frequency content of the response of an elastic
 body subjected to a random vibration. The
 method is based on the use of the Fourier
 transform and the power spectral density
 function. The method is applied to the
 analysis of the response of a single degree
 of freedom system to a random vibration.
 The results are compared with those
 obtained by the use of the Monte Carlo
 method.

SK-002 DE JANTZ 02 DATE:	A SK-002 DE JANTZ 02 DATE:
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1 PROPOSED GROUND FLOOR PLAN
1 : 200





AREA	FUNCTIONS	ASSUMED OCCUPATION
TOTAL	280	
EGRESS WIDTH REQUIRED 2.7M	280	
EGRESS WIDTH PROVIDED 2.7M		
2M = 200 PATRONS		
0.5M = 60 PATRONS		



ADAPTO LEAGUES CLUB NORTH
WING REFURBISHMENT

ALTIS
ARCHITECTURE

p 612 9364 9102 f 612 6571 7980 local disk [tree bay wheel
subto 123:28-32 original total payload near 2000 available

LEVEL 1 PLAN-ZONE A - EGRESS

19. *Chen, C. C. and J. C. Lagarias. 1995. The asymptotic behavior of the function $\sum_{d|n} \mu(d) \log d$. *Journal of Number Theory* 58: 1-10.*

AS P COVERED BY Author	AS INDICATED @ A1	UPDATED BY Checker	REQUEST NO. 2219.03	DATE 22/10/03	DEPARTMENT SK-004	ISSUE A
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