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Transport Planning, Traffic Impact Assessments, Road Safety Audits, Expert Witness

8 March 2023

Reference: 230160.01FA

Project Manager, Project Services
Sutherland Shire Council
4-20 Eton Street
SUTHERLAND NSW 2232
Attention: Joe Grant

TRAFFIC AND PARKING IMPACT ASSESSMENT OF THE PROPOSED CRONULLA PLAZA & TOWN SQUARE - STAGE 2 RENEWAL AT CRONULLA PLAZA

Dear Joe,

Reference is made to your request to provide a traffic and parking impact assessment for the proposed cronulla plaza & town square - stage 2 renewal at Cronulla Plaza (proposed plans reproduced in **Annexure A**). The subject proposal, which does not include any change in the public domain area being renewed, as relevant to traffic and parking impacts, is summarised as follows:

- Renewed and enlarged Softfall Playground space with potential expanded shade structures.
- Renewed seating and tables.
- Introduced Market Stall space for seasonal use.
- Redefine more clearly the Emergency Access Route through the Mall.
- Redefine more clearly Delivery Vehicle Route through the Mall.
- Changes to Lease Zone areas for outdoor seating / dining for specific shops.

Access to the Cronulla Plaza (also referred to as the Cronulla Mall) is provided in numerous locations for the general public, as pedestrians, cyclists and via mobility assistance vehicles / devices. The primary access points for these travel modes include direct connections to The Kingsway, Cronulla Street, Purely Place, Surf Lane / Ocean Grove Avenue and via a public laneway connecting the Croydon Street Public Car Park.

Pedestrian traffic will still be able to utilise the retained site area of the Mall with improved shade and play space for children.

1 Site Location and Access

The location of the site is depicted on an aerial image in **Figure 1**.



 Site Location

FIGURE 1: SITE CONTEXT – AERIAL IMAGE

2 Vehicular Access, Traffic, Parking and Bicycles

Motorised vehicular access to the Cronulla Mall is prohibited, except for emergency vehicles, authorised delivery vehicles and motorised scooters for mobility impaired riders. Bicycles are permitted to traverse the Mall, however the undersigned recommends that some restrictions should apply in yet to be nominated areas, where cyclists should be required to dismount. The use of skateboards within the Mall should be informed by Council and shopkeepers within the Mall.

The undersigned also recommends that E-Scooters and similar devices should be prohibited from travelling within the Mall.

The car parking, access and servicing requirements of the site have been assessed, with the relevant details summarised in **Table** .

TABLE 1: PARKING ASSESSMENT SUMMARY (SOURCE: SUTHERLAND DEVELOPMENT CONTROL PLAN 2015, CHAPTER 36)

Category	Land Use & Control	Compliance with Control
Car Parking Provision	Amusement Centres, Entertainment facilities, Function centres Highway service centres, Registered clubs Veterinary hospitals Mortuaries Places of public worship Respite day care centres Jetties, Recreation facilities (indoor) Recreation facilities (outdoor). Traffic Study Required	Yes - This traffic study does not recommend any additional parking provision, other than bicycle racks in areas determined in consultation between Council and shopkeepers.
Motorcycle / Bicycle Parking	Motorcycle parking shall be provided for all non-residential development at a rate of 1 motorcycle space per 25 car spaces or part thereof. Development and works in the public domain shall have regard to the Sutherland Shire Bicycle Network Map and the requirements of the Public Domain Design Manual.	Yes - No motorcycle spaces are proposed in compliance with this control. Bicycle racks to be considered within the Mall in locations that do not interrupt main pedestrian flows, access to shops and emergency / service vehicle access
Accessible Parking	As a minimum, parking for people with a disability shall be provided, in accordance with the Building Code of Australia and the design and dimensions of such spaces shall be in accordance with the relevant Australian Standard.	Yes - Disabled Parking exists within the precinct generally and specifically within the Croydon Street Public Car Park.
Loading and Unloading Facilities	As a minimum standard, developments shall be designed in accordance with the loading and service vehicle requirements within AS2890.2 and the RTA Guide to Traffic Generating Developments and shall be suitable for a heavy rigid vehicle as defined by AS2890.2.	Yes – Any loading and servicing requirements, including emergency vehicle access is accommodated within the proposed renewal of the Mall as part of the Cronulla Town Centre.

The undersigned has visited the Mall as part of this review and is a regular user of the Mall over many years, for both work and social related visits, at all times of the day and night.

The undersigned has also reviewed previous 2017 Traffic Plan and the Parking and Active Travel Plan reports that were prepared for Sutherland Shire Council by Traffix.

In relation to the need or otherwise for additional car parking associated with the public domain area of the Cronulla Mall, the undersigned notes from the Parking and Active Travel Plan report the following conclusions and recommendations, which support no additional car parking related to public domain improvements:

Conclusions

“The purpose of the Cronulla Centre Public Domain Masterplan is to facilitate a more connected and vibrant Cronulla Centre, recognising Cronulla’s importance both as a town centre and visitor destination. As a part of the masterplan council wants to improve the provision and management of parking within the Cronulla Centre. Anecdotal evidence suggests that the Cronulla Centre experiences high parking demand on weekends and at other peak times, while Council surveys show that parking is clearly a major concern of visitors to the centre. The provision and management of parking is a key factor in achieving a more vibrant Cronulla Centre.”

The distribution of the parking restrictions across the Cronulla Centre shows that 37% of all on-street parking spaces are unrestricted. This represents 271 parking spaces. Providing such a large number of unrestricted parking spaces would generally be considered generous, considering these spaces are located in a premium location within the town centre where parking demand is high and at a premium. These unrestricted parking spaces also allow for the opportunity for visitors to the centre to park all day which does not help when trying to promote private vehicle alternative modes of travel to the centre.”

Recommendation

“Consider redistributing parking mix across the Cronulla Centre so that unrestricted car parking does not take up such a high percentage of the available parking capacity. Implementing time restricted car parking will help to increase the available parking capacity within the Cronulla Town Centre as it will help to increase parking turnover.”

As previously stated, pedestrian traffic will still be able to utilise the retained site area of the Mall with improved shade and play space for children. The increased area for children play space and improved shade may increase the average duration of stay for those visitors arriving by private cars and parking within the precinct, however, as identified above there are strategies of parking demand management that can be applied to the existing car parking supply within the precinct, such that no additional car parking would be necessary.

3 Traffic Generation and Impact

In view of the foregoing, there is not expected to be any discernible increase in traffic generation of the proposed Cronulla plaza & town square - stage 2 renewal at Cronulla Plaza.

Please contact the undersigned should you require further information or assistance.

Yours faithfully

McLaren Traffic Engineering



Craig McLaren

Chairman & Director,

RPQE 19457

BE Civil. Grad Dip (Transport Eng) MITE [1985]

RMS Accredited Level 3 Road Safety Auditor [1998]

SafeWork NSW Traffic Control Work Training card, [Authorisation number TCT0015914: Prepare Work Zone (PWZ)]

Expert Traffic Engineering & Road Safety Witness at NSW Land & Environment & NSW Supreme Court



**ANNEXURE A: PROPOSED PLANS
(10 SHEETS FOLLOWING)**

SPACE ALLOCATION KEY



PLAYGROUND PRECINCT
Predominately play / active community hub.

- Elements include the potential for;
- Play spaces
 - Public seating
 - Canopy trees
 - Shade structures
 - Community uses
 - Decorative, ambient and event lighting



BUILDING FORECOURT PRECINCT
Reserved as curtilage to prominent buildings and community activation.

- Elements include;
- Public seating
 - Signature tree planting
 - Sculptures and Art installations
 - Temporary (short lease) trading leases (i.e. market stalls, coffees carts, busking)
 - Not for profit community activates
 - Cross plaza circulation
 - Decorative and ambient lighting
 - Special event use
 - Temporary retail lease opportunities



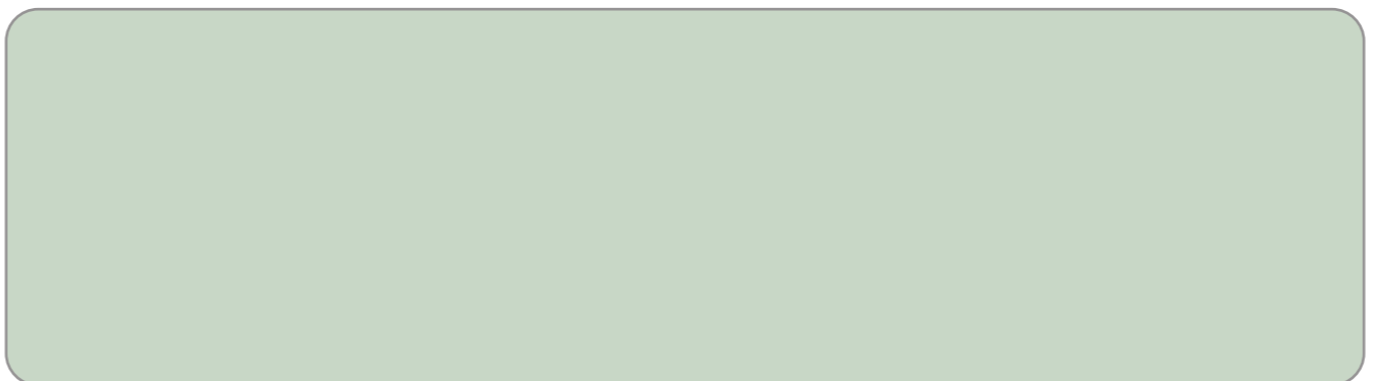
PUBLIC SPACE - SEATING ZONES
Reserved for public accessible seating & tables plus cross plaza accessibility.

- Elements include;
- Seating
 - Tables
 - Tree planting
 - Cross plaza circulation
 - Decorative and ambient lighting



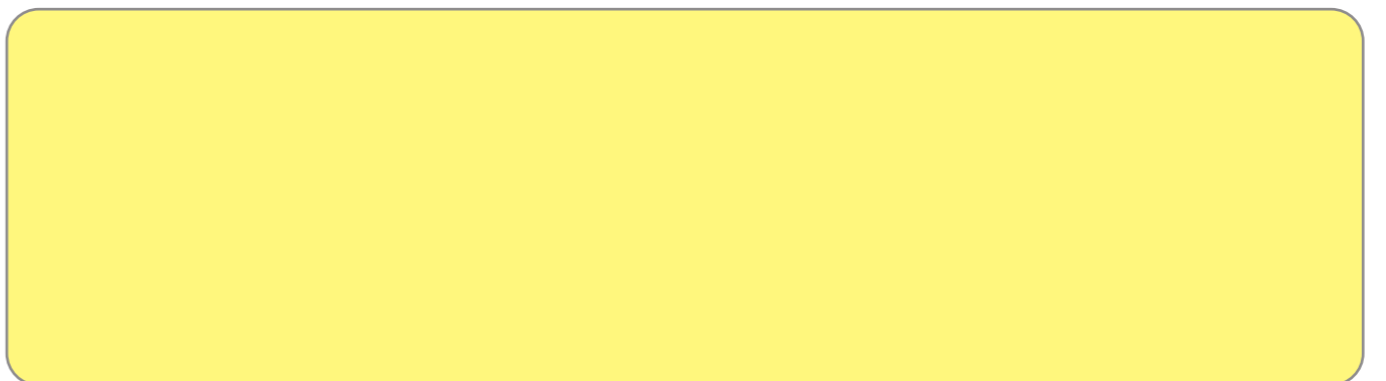
TOWN SQUARE
Flexible open space for community use and trade.

- Elements include.
- Pedestrian orientated paving (suitable for heavy delivery and emergency vehicles)
 - Public seating
 - Signature tree planting
 - Cross plaza circulation
 - Special event use
 - Temporary (short lease) trading (i.e. market stalls, coffee carts).
 - Decorative and ambient lighting



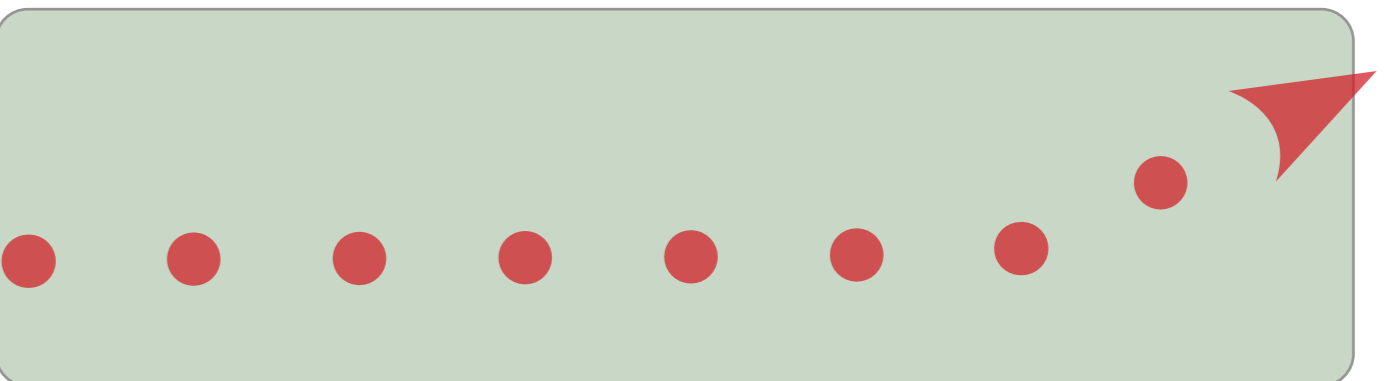
PEDESTRIAN ACCESSIBILITY ZONE
Exclusively reserved for pedestrian movement and shop-front visibility.

- Elements include;
- Distinctive paving
 - DDA compliance with a clear building line
 - Sufficient width to accommodate pedestrian movement (every day and during event days)
 - Predominately shaded under awning
 - Amenity / pedestrian lightings



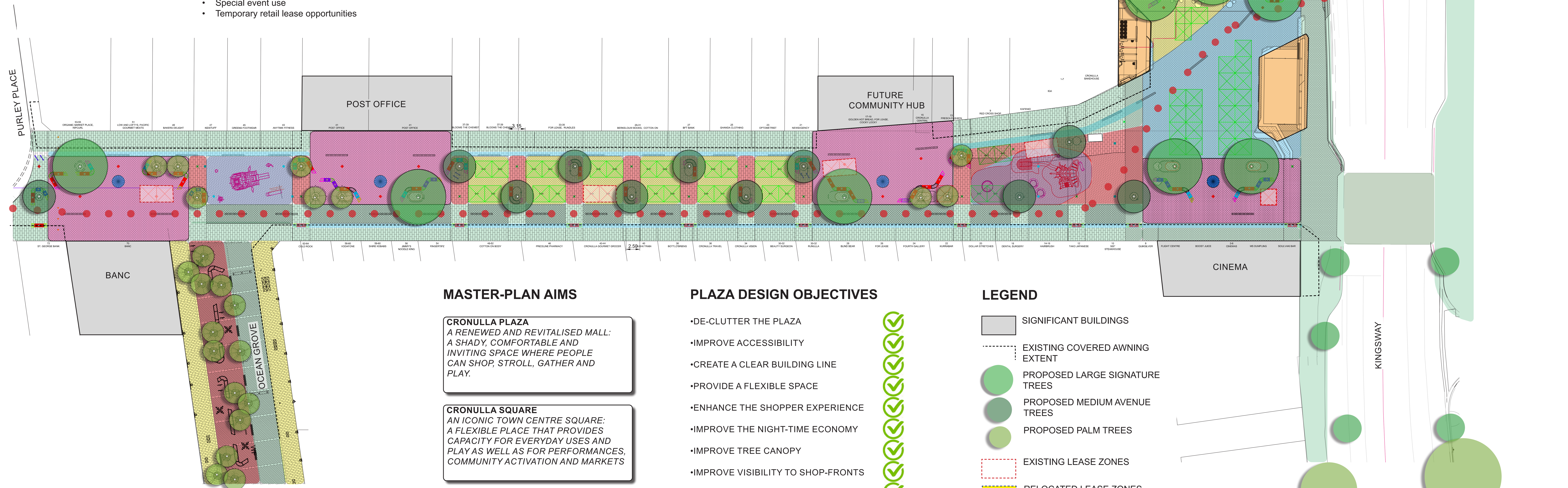
PUBLIC SPACE - TRADING ZONES
Predominantly reserved for long & short term retail trading opportunities.

- Elements include;
- Distinctive paving
 - Opportunities for alfresco dining
 - Retail trading
 - Decorative / Ambient lighting
 - Market stalls use in non leased / licensed areas



PEDESTRIAN / VEHICULAR ZONE
Shared Pedestrian and Vehicle access zone.

- Elements include.
- Pedestrian orientated paving (suitable for heavy delivery and emergency vehicles)
 - Sufficient width to accommodate vehicular movement clear of the awning line
 - Amenity / pedestrian lighting



MASTER-PLAN AIMS

CRONULLA PLAZA
A RENEWED AND REVITALISED MALL:
A SHADY, COMFORTABLE AND INVITING SPACE WHERE PEOPLE CAN SHOP, STROLL, GATHER AND PLAY.

CRONULLA SQUARE
AN ICONIC TOWN CENTRE SQUARE:
A FLEXIBLE PLACE THAT PROVIDES CAPACITY FOR EVERYDAY USES AND PLAY AS WELL AS FOR PERFORMANCES, COMMUNITY ACTIVATION AND MARKETS

KINGSWAY GATEWAY
A GREEN GATEWAY WITH IMPROVED PEDESTRIAN EXPERIENCE

PLAZA DESIGN OBJECTIVES

- DE-CLUTTER THE PLAZA
- IMPROVE ACCESSIBILITY
- CREATE A CLEAR BUILDING LINE
- PROVIDE A FLEXIBLE SPACE
- ENHANCE THE SHOPPER EXPERIENCE
- IMPROVE THE NIGHT-TIME ECONOMY
- IMPROVE TREE CANOPY
- IMPROVE VISIBILITY TO SHOP-FRONTS
- WIDE GENEROUS PEDESTRIAN PATH
- DELIVERY / EMERGENCY VEHICLE PROXIMITY TO AWNINGS
- DISTANCE FROM SHOPS TO PUBLIC SPACE TRADING AREAS

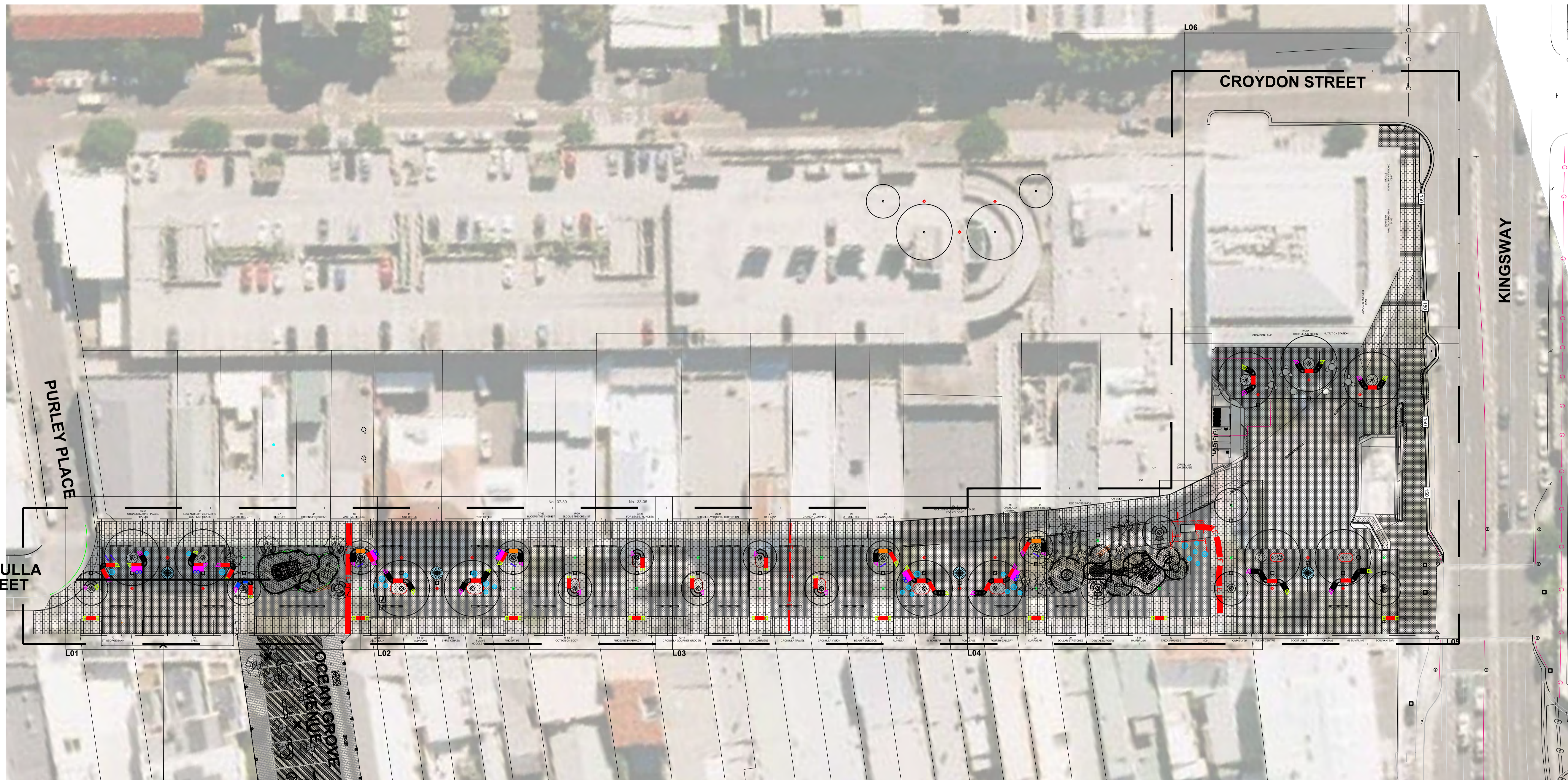


LEGEND

- SIGNIFICANT BUILDINGS
- EXISTING COVERED AWNING EXTENT
- PROPOSED LARGE SIGNATURE TREES
- PROPOSED MEDIUM AVENUE TREES
- PROPOSED PALM TREES
- EXISTING LEASE ZONES
- RELOCATED LEASE ZONES
- PROPOSED AMENITIES BUILDING AND STAGE
- PROPOSED WATER-PLAY FEATURE

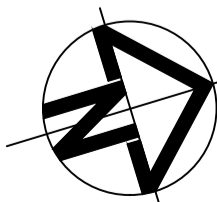
CRONULLA PLAZA & TOWN SQUARE - CRONULLA

CRONULLA PLAZA - STAGE 2



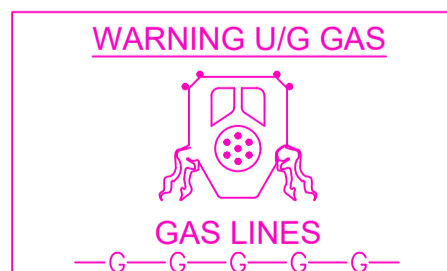
EXTENT OF WORKS LINE

NOTE:
REFER TO RELEVANT SCHEDULES
IN DOCUMENT APPENDIX.



WARNING
UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC AUTHORITIES TO SUTHERLAND SHIRE COUNCIL IN

LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN BY PERSONS EXCAVATING.



WARNING U/G TELSTRA
CABLES
PLEASE CONTACT THE N.I.A.C. GROUP AT TELSTRA ON 9204-0880 OR 9204-0923. BEFORE STARTING ANY CONSTRUCTION WORK IN THE AREA.

WARNING U/G TELSTRA
CABLES
OF
PLEASE CONTACT THE N.I.A.C. GROUP AT TELSTRA ON 9204-0880 OR 9204-0923. BEFORE STARTING ANY CONSTRUCTION WORK IN THE AREA.



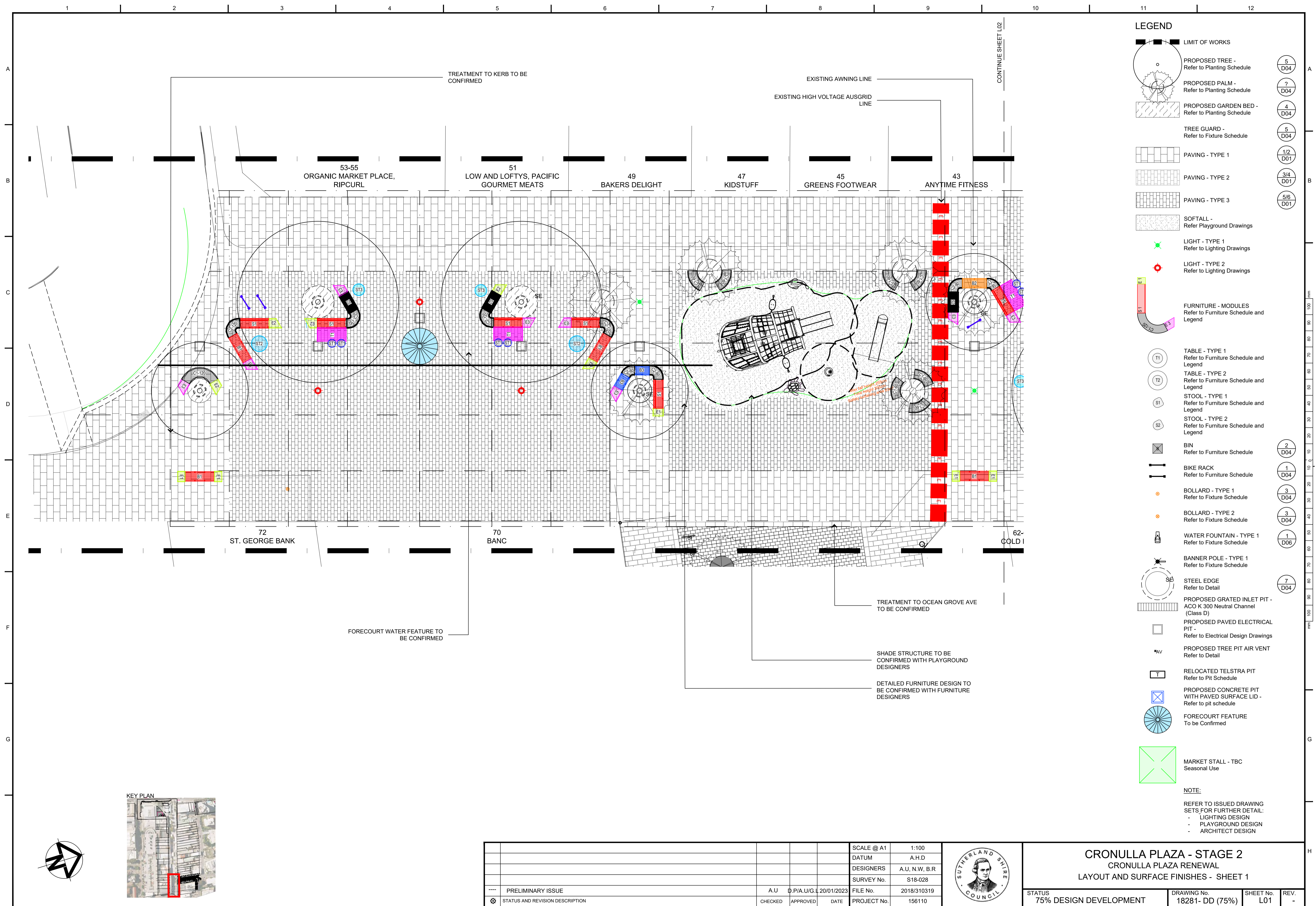
WARNING U/G ELECTRICITY
POWER CABLES

STATUS AND REVISION DESCRIPTION	CHECKED	APPROVED	DATE	FILE No.	PROJECT No.
PRELIMINARY ISSUE	A.U	D.P/A.U/G.L	20/01/2023	2018/310319	156110



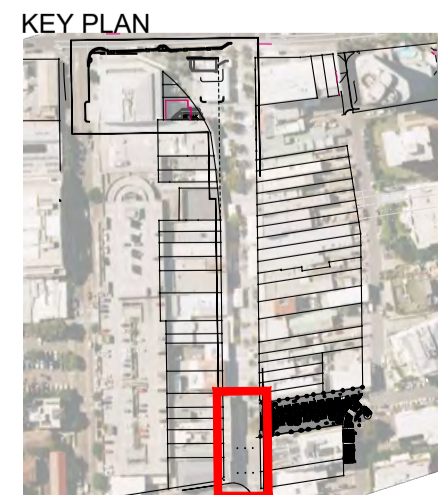
CRONULLA PLAZA - STAGE 2 CRONULLA PLAZA RENEWAL COVER SHEET			
STATUS 75% DESIGN DEVELOPMENT	DRAWING No. 18281- DD (75%)	SHEET No. L00	REV. -

DRAFT



- ### LEGEND
- LIMIT OF WORKS
 - PROPOSED TREE - Refer to Planting Schedule
 - PROPOSED PALM - Refer to Planting Schedule
 - PROPOSED GARDEN BED - Refer to Planting Schedule
 - TREE GUARD - Refer to Fixture Schedule
 - PAVING - TYPE 1
 - PAVING - TYPE 2
 - PAVING - TYPE 3
 - SOFTALL - Refer to Playground Drawings
 - LIGHT - TYPE 1 Refer to Lighting Drawings
 - LIGHT - TYPE 2 Refer to Lighting Drawings
 - FURNITURE - MODULES Refer to Furniture Schedule and Legend
 - TABLE - TYPE 1 Refer to Furniture Schedule and Legend
 - TABLE - TYPE 2 Refer to Furniture Schedule and Legend
 - STOOL - TYPE 1 Refer to Furniture Schedule and Legend
 - STOOL - TYPE 2 Refer to Furniture Schedule and Legend
 - BIN Refer to Furniture Schedule
 - BIKE RACK Refer to Furniture Schedule
 - BOLLARD - TYPE 1 Refer to Fixture Schedule
 - BOLLARD - TYPE 2 Refer to Fixture Schedule
 - WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule
 - BANNER POLE - TYPE 1 Refer to Fixture Schedule
 - STEEL EDGE Refer to Detail
 - PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
 - PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
 - PROPOSED TREE PIT AIR VENT Refer to Detail
 - RELOCATED TELSTRA PIT Refer to Pit Schedule
 - PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
 - FORECOURT FEATURE To be Confirmed
 - MARKET STALL - TBC Seasonal Use

NOTE:
 REFER TO ISSUED DRAWING SETS FOR FURTHER DETAIL:
 - LIGHTING DESIGN
 - PLAYGROUND DESIGN
 - ARCHITECT DESIGN



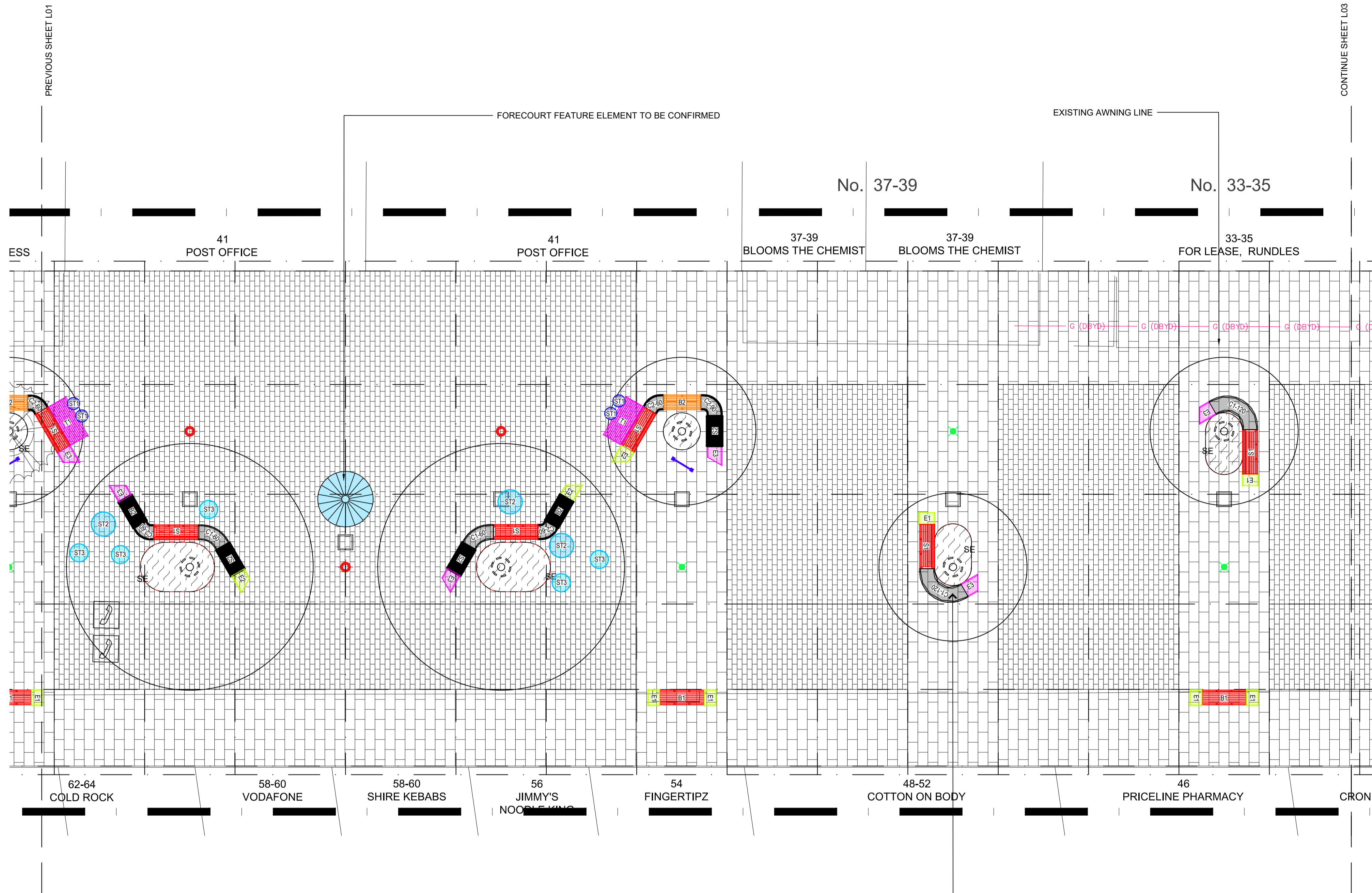
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SURVEY No.	S18-028
FILE No.	2018/310319
PROJECT No.	156110

PRELIMINARY ISSUE	A.U	D.P/A.U/G.L	20/01/2023
STATUS AND REVISION DESCRIPTION	CHECKED	APPROVED	DATE



CRONULLA PLAZA - STAGE 2
 CRONULLA PLAZA RENEWAL
 LAYOUT AND SURFACE FINISHES - SHEET 1

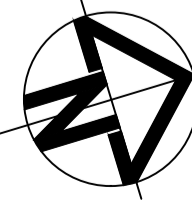
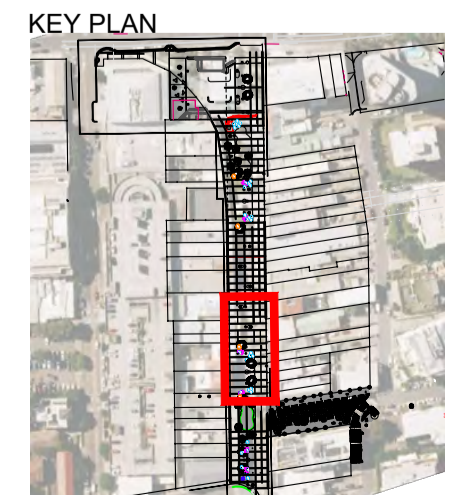
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LEGEND

- LIMIT OF WORKS
- PROPOSED TREE - Refer to Planting Schedule
- PROPOSED PALM - Refer to Planting Schedule
- PROPOSED GARDEN BED - Refer to Planting Schedule
- TREE GUARD - Refer to Fixture Schedule
- PAVING - TYPE 1
- PAVING - TYPE 2
- PAVING - TYPE 3
- SOFTALL - Refer to Playground Drawings
- LIGHT - TYPE 1 Refer to Lighting Drawings
- LIGHT - TYPE 2 Refer to Lighting Drawings
- FURNITURE - MODULES Refer to Furniture Schedule and Legend
- TABLE - TYPE 1 Refer to Furniture Schedule and Legend
- TABLE - TYPE 2 Refer to Furniture Schedule and Legend
- STOOL - TYPE 1 Refer to Furniture Schedule and Legend
- STOOL - TYPE 2 Refer to Furniture Schedule and Legend
- BIN Refer to Furniture Schedule
- BIKE RACK Refer to Furniture Schedule
- BOLLARD - TYPE 1 Refer to Fixture Schedule
- BOLLARD - TYPE 2 Refer to Fixture Schedule
- WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule
- BANNER POLE - TYPE 1 Refer to Fixture Schedule
- STEEL EDGE Refer to Detail
- PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
- PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
- PROPOSED TREE PIT AIR VENT Refer to Detail
- RELOCATED TELSTRA PIT Refer to Pit Schedule
- PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
- FORECOURT FEATURE To be Confirmed
- MARKET STALL - TBC Seasonal Use

NOTE:
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 - LIGHTING DESIGN
 - PLAYGROUND DESIGN
 - ARCHITECT DESIGN
 - EXISTING SERVICES

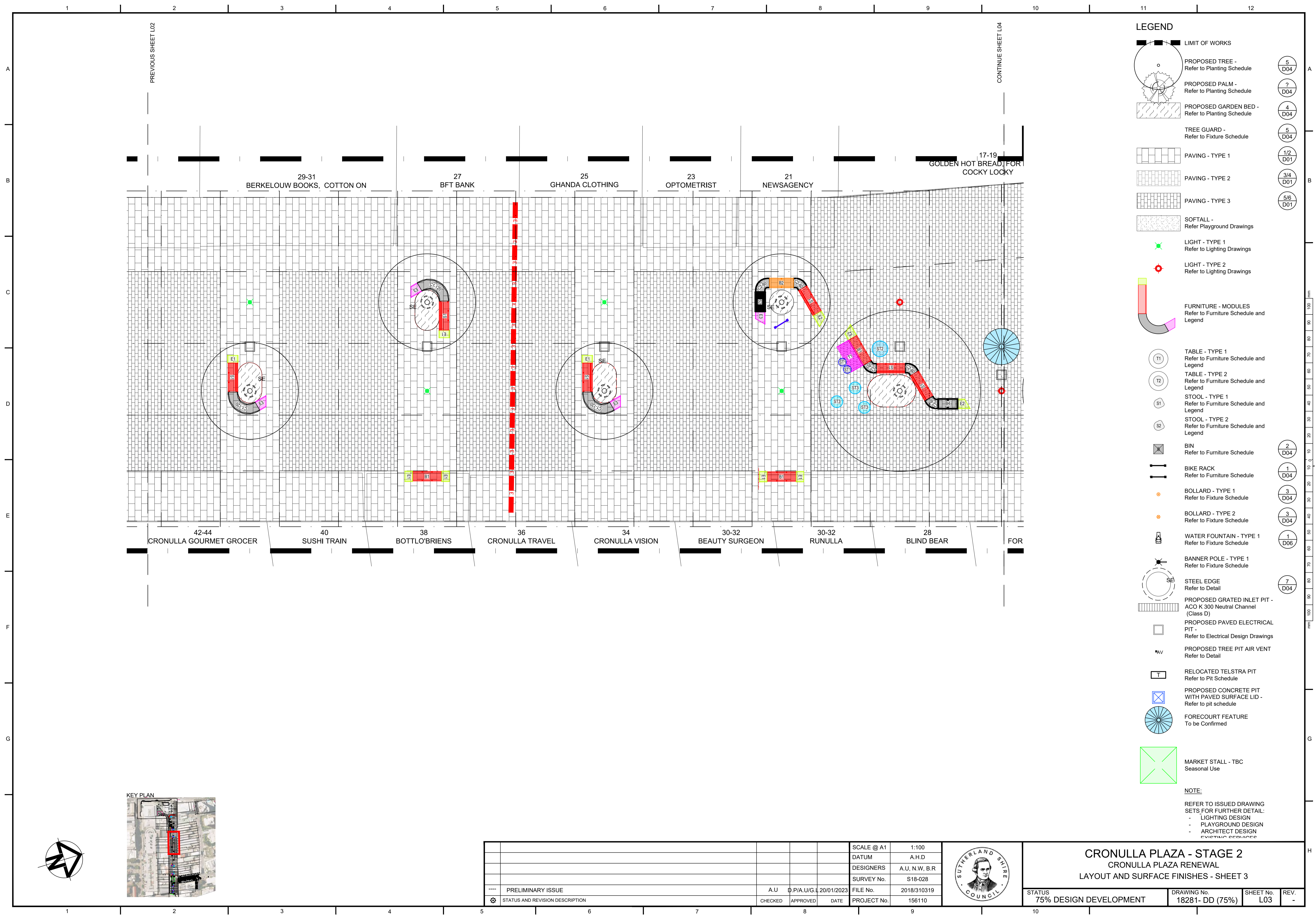


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					PROJECT No.	156110

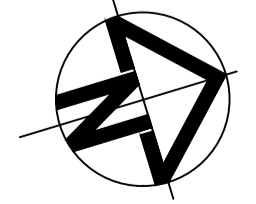
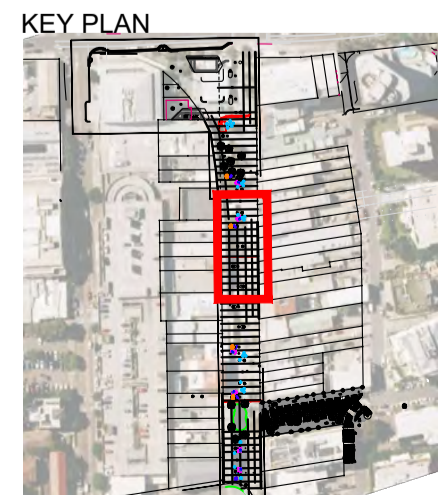


CRONULLA PLAZA - STAGE 2
 CRONULLA PLAZA RENEWAL
 LAYOUT AND SURFACE FINISHES - SHEET 2

STATUS 75% DESIGN DEVELOPMENT	DRAWING No. 18281- DD (75%)	SHEET No. L02	REV. -
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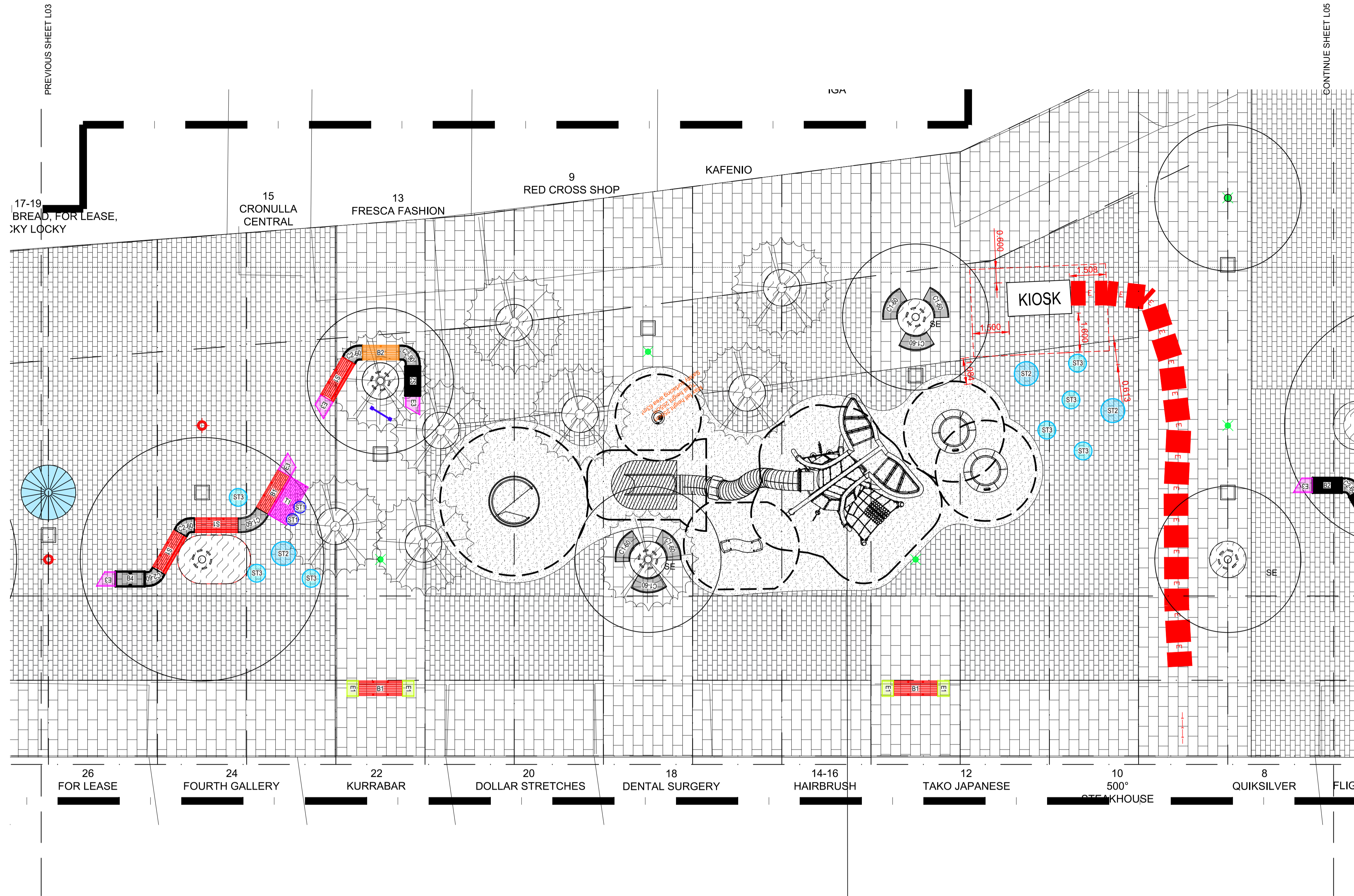
- ### LEGEND
- LIMIT OF WORKS
 - PROPOSED TREE - Refer to Planting Schedule
 - PROPOSED PALM - Refer to Planting Schedule
 - PROPOSED GARDEN BED - Refer to Planting Schedule
 - TREE GUARD - Refer to Fixture Schedule
 - PAVING - TYPE 1
 - PAVING - TYPE 2
 - PAVING - TYPE 3
 - SOFTALL - Refer Playground Drawings
 - LIGHT - TYPE 1 Refer to Lighting Drawings
 - LIGHT - TYPE 2 Refer to Lighting Drawings
 - FURNITURE - MODULES Refer to Furniture Schedule and Legend
 - TABLE - TYPE 1 Refer to Furniture Schedule and Legend
 - TABLE - TYPE 2 Refer to Furniture Schedule and Legend
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 - STOOL - TYPE 2 Refer to Furniture Schedule and Legend
 - BIN Refer to Furniture Schedule
 - BIKE RACK Refer to Furniture Schedule
 - BOLLARD - TYPE 1 Refer to Fixture Schedule
 - BOLLARD - TYPE 2 Refer to Fixture Schedule
 - WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule
 - BANNER POLE - TYPE 1 Refer to Fixture Schedule
 - STEEL EDGE Refer to Detail
 - PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
 - PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
 - PROPOSED TREE PIT AIR VENT Refer to Detail
 - RELOCATED TELSTRA PIT Refer to Pit Schedule
 - PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
 - FORECOURT FEATURE To be Confirmed
 - MARKET STALL - TBC Seasonal Use



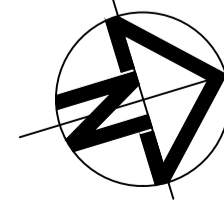
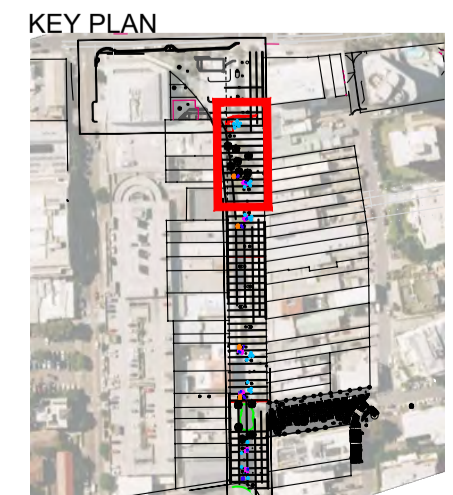
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SURVEY No.	S18-028
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PROJECT No.	156110
STATUS AND REVISION DESCRIPTION	
PRELIMINARY ISSUE	A.U D.P/A.U/G.L 20/01/2023
CHECKED	APPROVED
DATE	



CRONULLA PLAZA - STAGE 2 CRONULLA PLAZA RENEWAL LAYOUT AND SURFACE FINISHES - SHEET 3			
STATUS	DRAWING No.	SHEET No.	REV.
75% DESIGN DEVELOPMENT	18281- DD (75%)	L03	-



- ### LEGEND
- LIMIT OF WORKS
 - PROPOSED TREE - Refer to Planting Schedule (5 D04)
 - PROPOSED PALM - Refer to Planting Schedule (2 D04)
 - PROPOSED GARDEN BED - Refer to Planting Schedule (4 D04)
 - TREE GUARD - Refer to Fixture Schedule (5 D04)
 - PAVING - TYPE 1 (1/2 D01)
 - PAVING - TYPE 2 (3/4 D01)
 - PAVING - TYPE 3 (5/6 D01)
 - SOFTALL - Refer to Playground Drawings
 - LIGHT - TYPE 1 Refer to Lighting Drawings
 - LIGHT - TYPE 2 Refer to Lighting Drawings
 - FURNITURE - MODULES Refer to Furniture Schedule and Legend
 - TABLE - TYPE 1 Refer to Furniture Schedule and Legend (T1)
 - TABLE - TYPE 2 Refer to Furniture Schedule and Legend (T2)
 - STOOL - TYPE 1 Refer to Furniture Schedule and Legend (S1)
 - STOOL - TYPE 2 Refer to Furniture Schedule and Legend (S2)
 - BIN Refer to Furniture Schedule (2 D04)
 - BIKE RACK Refer to Furniture Schedule (1 D04)
 - BOLLARD - TYPE 1 Refer to Fixture Schedule (3 D04)
 - BOLLARD - TYPE 2 Refer to Fixture Schedule (3 D04)
 - WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule (1 D06)
 - BANNER POLE - TYPE 1 Refer to Fixture Schedule
 - STEEL EDGE Refer to Detail (7 D04)
 - PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
 - PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
 - PROPOSED TREE PIT AIR VENT Refer to Detail
 - RELOCATED TELSTRA PIT Refer to Pit Schedule
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 - MARKET STALL - TBC Seasonal Use

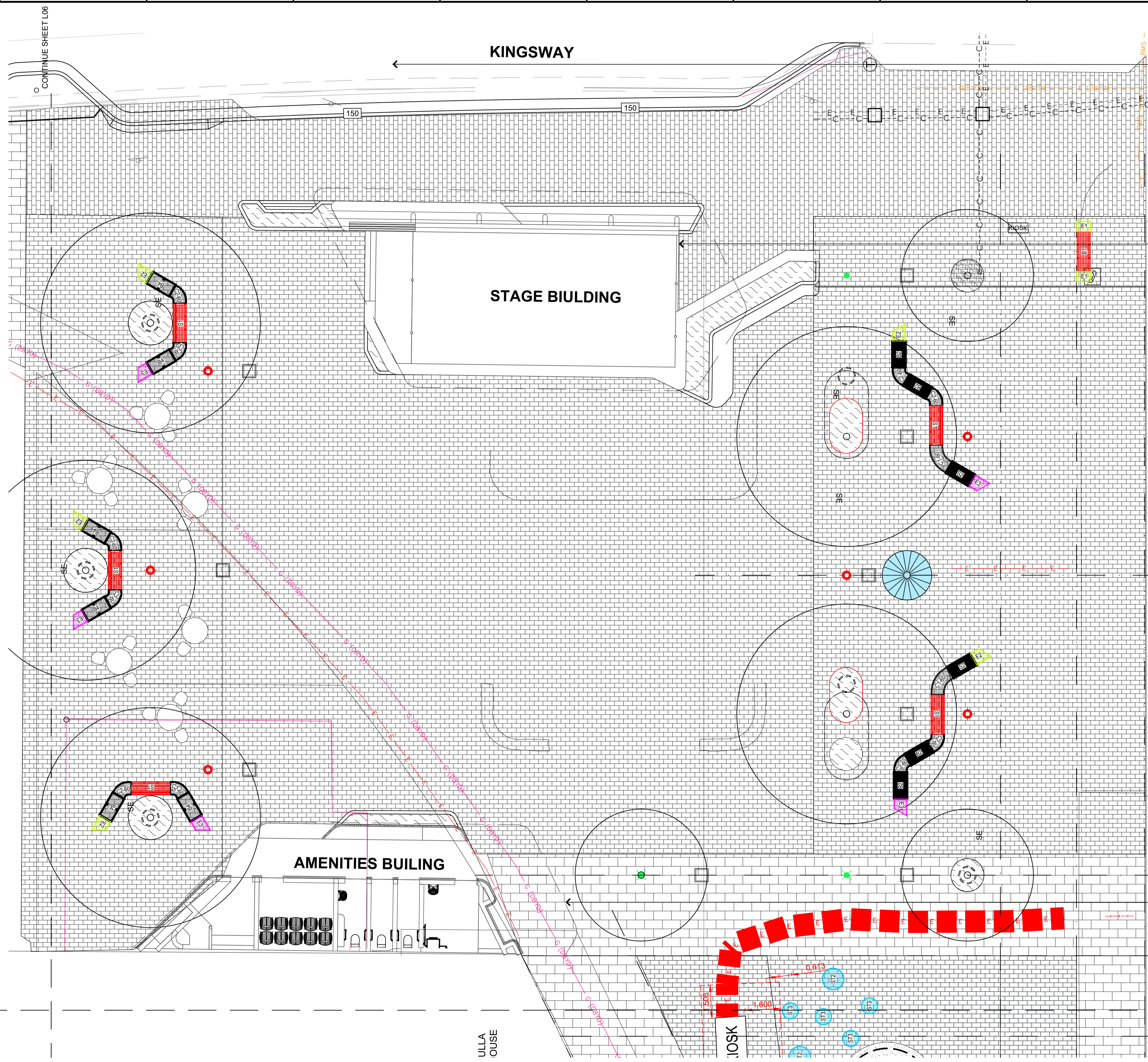


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					DESIGNERS	A.U., N.W., B.R.
					SURVEY No.	S18-028
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					PROJECT No.	156110



CRONULLA PLAZA - STAGE 2
CRONULLA PLAZA RENEWAL
LAYOUT AND SURFACE FINISHES - SHEET 4

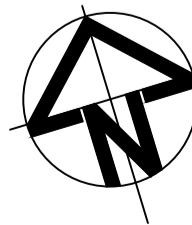
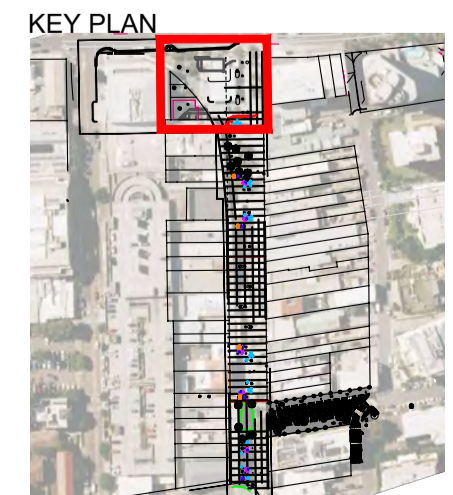
STATUS 75% DESIGN DEVELOPMENT	DRAWING No. 18281- DD (75%)	SHEET No. L04	REV. -
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LEGEND

- LIMIT OF WORKS
- PROPOSED TREE - Refer to Planting Schedule
- PROPOSED PALM - Refer to Planting Schedule
- PROPOSED GARDEN BED - Refer to Planting Schedule
- TREE GUARD - Refer to Fixture Schedule
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- LIGHT - TYPE 1 Refer to Lighting Drawings
- LIGHT - TYPE 2 Refer to Lighting Drawings
- FURNITURE - MODULES Refer to Furniture Schedule and Legend
- TABLE - TYPE 1 Refer to Furniture Schedule and Legend
- TABLE - TYPE 2 Refer to Furniture Schedule and Legend
- STOOL - TYPE 1 Refer to Furniture Schedule and Legend
- STOOL - TYPE 2 Refer to Furniture Schedule and Legend
- BIN Refer to Furniture Schedule
- BIKE RACK Refer to Furniture Schedule
- BOLLARD - TYPE 1 Refer to Fixture Schedule
- BOLLARD - TYPE 2 Refer to Fixture Schedule
- WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule
- BANNER POLE - TYPE 1 Refer to Fixture Schedule
- STEEL EDGE Refer to Detail
- PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
- PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
- PROPOSED TREE PIT AIR VENT Refer to Detail
- RELOCATED TELSTRA PIT Refer to Pit Schedule
- PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
- FORECOURT FEATURE To be Confirmed
- MARKET STALL - TBC Seasonal Use

NOTE:
REFER TO ISSUED DRAWING SETS FOR FURTHER DETAIL:
- LIGHTING DESIGN
- PLAYGROUND DESIGN
- ARCHITECT DESIGN

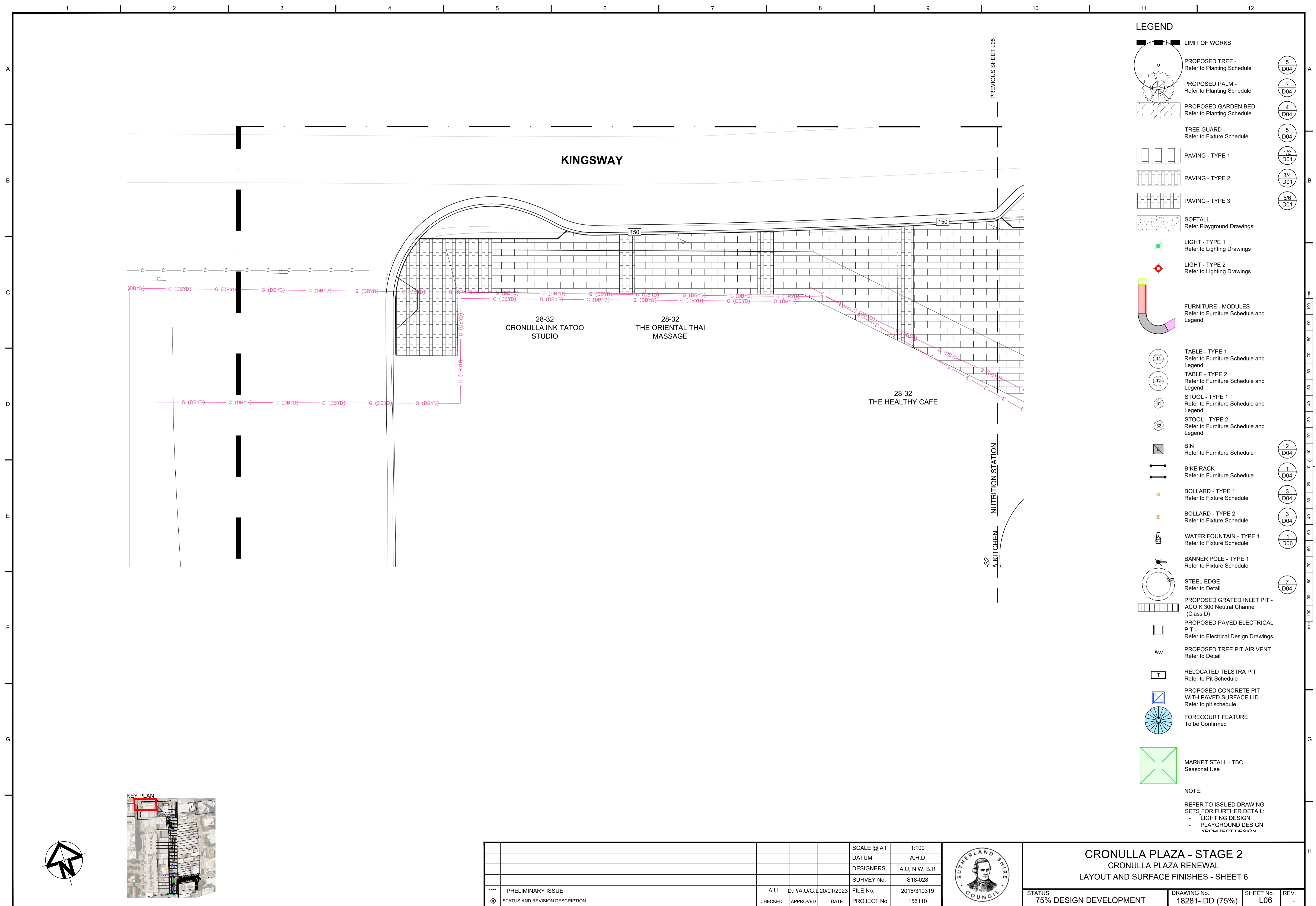


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DATUM	A.H.D
DESIGNERS	A.U, N.W, B.R
SURVEY No.	S18-028
FILE No.	2018/310319
PROJECT No.	156110
PRELIMINARY ISSUE	A.U D.P/A.U/G.L 20/01/2023
STATUS AND REVISION DESCRIPTION	CHECKED APPROVED DATE



CRONULLA PLAZA - STAGE 2
CRONULLA PLAZA RENEWAL
LAYOUT AND SURFACE FINISHES - SHEET 5

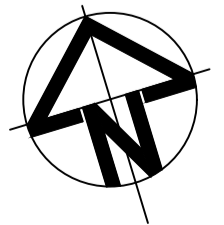
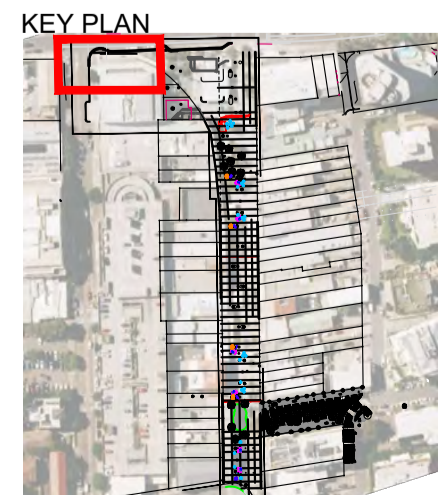
STATUS	DRAWING No.	SHEET No.	REV.
75% DESIGN DEVELOPMENT	18281- DD (75%)	L05	-



LEGEND

- LIMIT OF WORKS**
 - PROPOSED TREE - Refer to Planting Schedule (5 D04)
 - PROPOSED PALM - Refer to Planting Schedule (? D04)
 - PROPOSED GARDEN BED - Refer to Planting Schedule (4 D04)
- TREE GUARD - Refer to Fixture Schedule (5 D04)
- PAVING - TYPE 1 (1/2 D01)
- PAVING - TYPE 2 (3/4 D01)
- PAVING - TYPE 3 (5/6 D01)
- SOFTALL - Refer Playground Drawings
- LIGHT - TYPE 1 - Refer to Lighting Drawings
- LIGHT - TYPE 2 - Refer to Lighting Drawings
- FURNITURE - MODULES - Refer to Furniture Schedule and Legend
 - TABLE - TYPE 1 - Refer to Furniture Schedule and Legend (T1)
 - TABLE - TYPE 2 - Refer to Furniture Schedule and Legend (T2)
 - STOOL - TYPE 1 - Refer to Furniture Schedule and Legend (S1)
 - STOOL - TYPE 2 - Refer to Furniture Schedule and Legend (S2)
 - BIN - Refer to Furniture Schedule (2 D04)
 - BIKE RACK - Refer to Furniture Schedule (1 D04)
 - BOLLARD - TYPE 1 - Refer to Fixture Schedule (3 D04)
 - BOLLARD - TYPE 2 - Refer to Fixture Schedule (3 D04)
 - WATER FOUNTAIN - TYPE 1 - Refer to Fixture Schedule (1 D06)
 - BANNER POLE - TYPE 1 - Refer to Fixture Schedule
 - STEEL EDGE - Refer to Detail (7 D04)
- PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
- PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
- PROPOSED TREE PIT AIR VENT - Refer to Detail (AV)
- RELOCATED TELSTRA PIT - Refer to Pit Schedule (T)
- PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
- FORECOURT FEATURE - To be Confirmed
- MARKET STALL - TBC Seasonal Use

NOTE:
REFER TO ISSUED DRAWING SETS FOR FURTHER DETAIL:
- LIGHTING DESIGN
- PLAYGROUND DESIGN
- ADVERT DESIGN



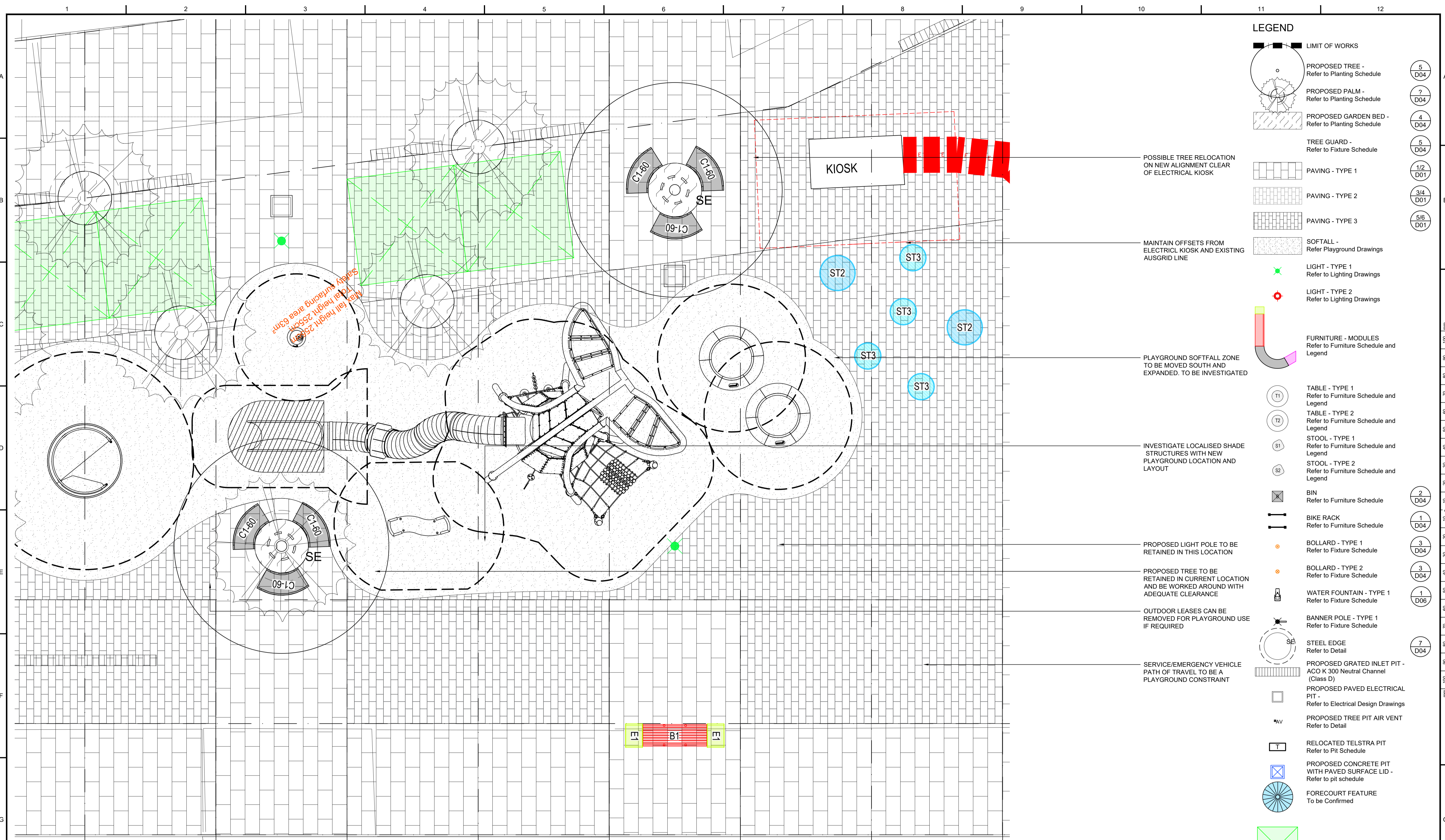
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DATUM	A.H.D
DESIGNERS	A.U, N.W, B.R
SURVEY No.	S18-028
FILE No.	2018/310319
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CRONULLA PLAZA - STAGE 2
CRONULLA PLAZA RENEWAL
LAYOUT AND SURFACE FINISHES - SHEET 6

STATUS	DRAWING No.	SHEET No.	REV.
75% DESIGN DEVELOPMENT	18281- DD (75%)	L06	-



LEGEND

- LIMIT OF WORKS
- PROPOSED TREE - Refer to Planting Schedule (5 D04)
- PROPOSED PALM - Refer to Planting Schedule (2 D04)
- PROPOSED GARDEN BED - Refer to Planting Schedule (4 D04)
- TREE GUARD - Refer to Fixture Schedule (5 D04)
- PAVING - TYPE 1 (1/2 D01)
- PAVING - TYPE 2 (3/4 D01)
- PAVING - TYPE 3 (5/6 D01)
- SOFTFALL - Refer to Playground Drawings
- LIGHT - TYPE 1 Refer to Lighting Drawings
- LIGHT - TYPE 2 Refer to Lighting Drawings
- FURNITURE - MODULES Refer to Furniture Schedule and Legend
- TABLE - TYPE 1 Refer to Furniture Schedule and Legend
- TABLE - TYPE 2 Refer to Furniture Schedule and Legend
- STOOL - TYPE 1 Refer to Furniture Schedule and Legend
- STOOL - TYPE 2 Refer to Furniture Schedule and Legend
- BIN Refer to Furniture Schedule (2 D04)
- BIKE RACK Refer to Furniture Schedule (1 D04)
- BOLLARD - TYPE 1 Refer to Fixture Schedule (3 D04)
- BOLLARD - TYPE 2 Refer to Fixture Schedule (3 D04)
- WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule (1 D06)
- BANNER POLE - TYPE 1 Refer to Fixture Schedule
- STEEL EDGE Refer to Detail (7 D04)
- PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
- PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
- PROPOSED TREE PIT AIR VENT Refer to Detail
- RELOCATED TELSTRA PIT Refer to Pit Schedule
- PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
- FORECOURT FEATURE To be Confirmed
- MARKET STALL - TBC Seasonal Use

20 DOLLAR STRETCHES 18 DENTAL SURGERY 14-16 HAIRBRUSH 12 TAKO JAPANESE 10 500° STEAKHOUSE

LEGEND

C	COMMUNICATIONS	TELSTRA PIT
E	ELECTRICITY	HYDRANT
W	WATER	STOP VALVE
G	GAS	POWER POLE
■	STORMWATER	ELECTRICAL PILLAR
RMS	ROADS MS	ELECTRICAL KIOSK
C (DBYD)	DBYD COMMUNICATIONS	POWER LIGHT POLE
E (DBYD)	DBYD ELECTRICITY	LIGHT POLE
W (DBYD)	DBYD WATER	GAS STOP VALVE
G (DBYD)	DBYD GAS	SEWER MANHOLE

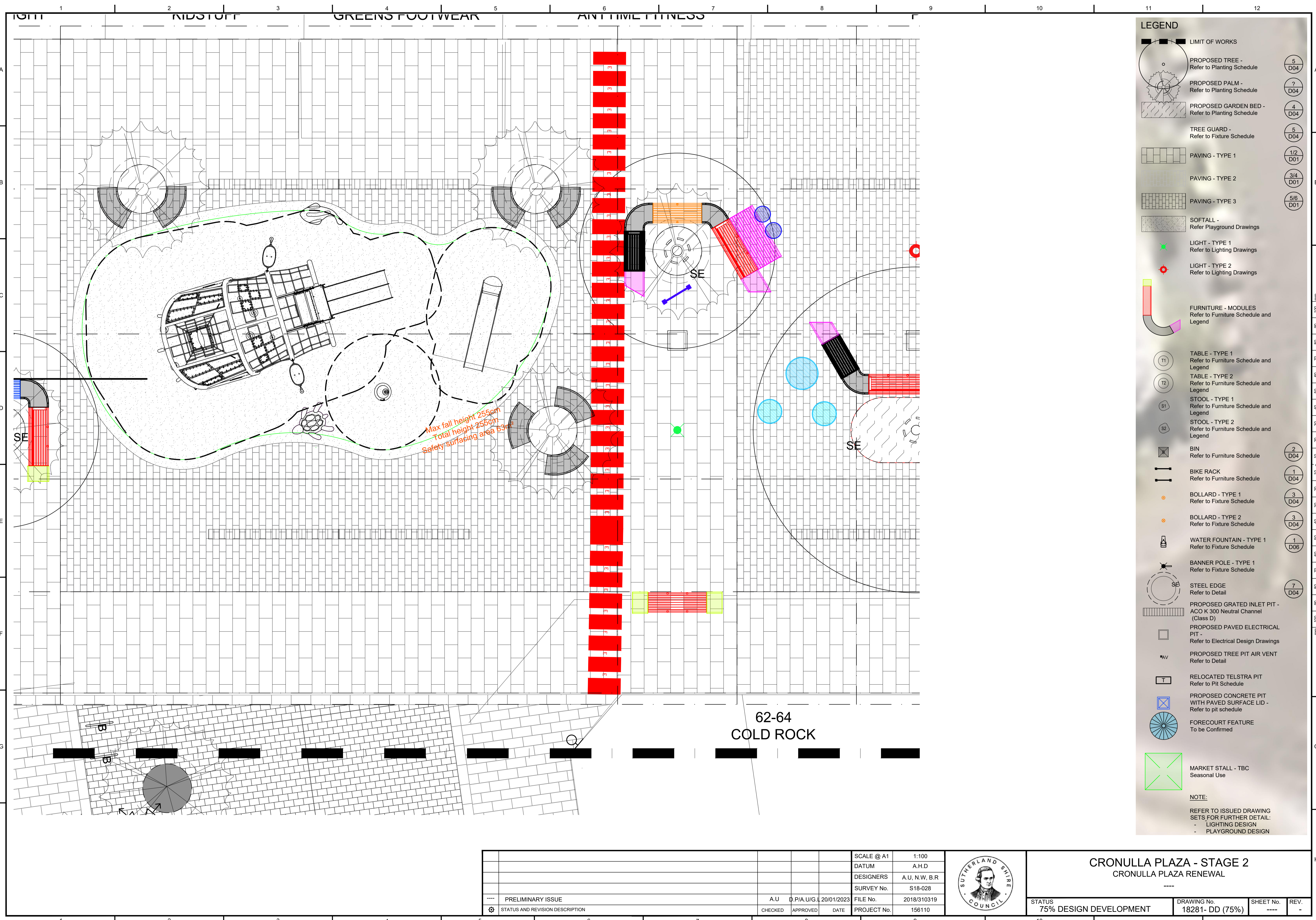
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STATUS AND REVISION DESCRIPTION		CHECKED	APPROVED	DATE	DATUM	A.H.D
					DESIGNERS	A.U, N.W, B.R
					SURVEY No.	S18-028
					FILE No.	2018/310319
					PROJECT No.	156110



CRONULLA PLAZA - STAGE 2

CRONULLA PLAZA RENEWAL PLAYGROUND LAYOUT OPTION 3

STATUS	DRAWING No.	SHEET No.	REV.
75% DESIGN DEVELOPMENT	18281- DD (75%)	----	-



Max fall height 255cm
 Total height 255cm
 Safety surfacing area 63sqm

LEGEND

- LIMIT OF WORKS
- PROPOSED TREE - Refer to Planting Schedule (5 D04)
- PROPOSED PALM - Refer to Planting Schedule (2 D04)
- PROPOSED GARDEN BED - Refer to Planting Schedule (4 D04)
- TREE GUARD - Refer to Fixture Schedule (5 D04)
- PAVING - TYPE 1 (1/2 D01)
- PAVING - TYPE 2 (3/4 D01)
- PAVING - TYPE 3 (5/6 D01)
- SOFTALL - Refer to Playground Drawings
- LIGHT - TYPE 1 Refer to Lighting Drawings
- LIGHT - TYPE 2 Refer to Lighting Drawings
- FURNITURE - MODULES Refer to Furniture Schedule and Legend
- TABLE - TYPE 1 Refer to Furniture Schedule and Legend (T1)
- TABLE - TYPE 2 Refer to Furniture Schedule and Legend (T2)
- STOOL - TYPE 1 Refer to Furniture Schedule and Legend (S1)
- STOOL - TYPE 2 Refer to Furniture Schedule and Legend (S2)
- BIN Refer to Furniture Schedule (2 D04)
- BIKE RACK Refer to Furniture Schedule (1 D04)
- BOLLARD - TYPE 1 Refer to Fixture Schedule (3 D04)
- BOLLARD - TYPE 2 Refer to Fixture Schedule (3 D04)
- WATER FOUNTAIN - TYPE 1 Refer to Fixture Schedule (1 D06)
- BANNER POLE - TYPE 1 Refer to Fixture Schedule
- STEEL EDGE Refer to Detail (7 D04)
- PROPOSED GRATED INLET PIT - ACO K 300 Neutral Channel (Class D)
- PROPOSED PAVED ELECTRICAL PIT - Refer to Electrical Design Drawings
- PROPOSED TREE PIT AIR VENT Refer to Detail (*AV)
- RELOCATED TELSTRA PIT Refer to Pit Schedule (T)
- PROPOSED CONCRETE PIT WITH PAVED SURFACE LID - Refer to pit schedule
- FORECOURT FEATURE To be Confirmed
- MARKET STALL - TBC Seasonal Use

NOTE:
 REFER TO ISSUED DRAWING SETS FOR FURTHER DETAIL:
 - LIGHTING DESIGN
 - PLAYGROUND DESIGN

SCALE @ A1 1:100		DATE 20/01/2023	
DATUM A.H.D		FILE No. 2018/310319	
DESIGNERS A.U, N.W, B.R		PROJECT No. 156110	
SURVEY No. S18-028			
P/A.U/G.L			
A.U			
PRELIMINARY ISSUE			
STATUS AND REVISION DESCRIPTION			
CHECKED	APPROVED	DATE	



CRONULLA PLAZA - STAGE 2 CRONULLA PLAZA RENEWAL			

STATUS 75% DESIGN DEVELOPMENT	DRAWING No. 18281- DD (75%)	SHEET No. ----	REV. -