

ATTACHMENT B

**DOCUMENTS LISTED IN
DRAFT CONDITION 1**

ITEM 1

**Architectural Drawings Package
(Dunn & Hillam Architects)**

Proposed Ward Oval Multipurpose Hall, Refurbished Pavilions + Carparks - Development Application

Ward Oval Precinct, Brennan St, Cobar 2835 - Lots 7317 and 7318 in DP 1170701, Lots 19-24 in DP 22820, Lot 65 in DP651098, Lot 17 DP213415, and Lot 100 DP1280186.
Cobar Shire Council - Cobar Local Environment Plan 2012 - Joint Regional Planning Panel

[illegible]

Schedule of Areas	
City Area	Planned Area
Boat Area	1,600 sq. ft.
	1,130 sq. ft.
Boat Area	1,772 sq. ft.
Planned Area, 10 acres, 100,000 sq. ft.	2,111 sq. ft.
Boat Area, 100,000 sq. ft.	2,111 sq. ft.

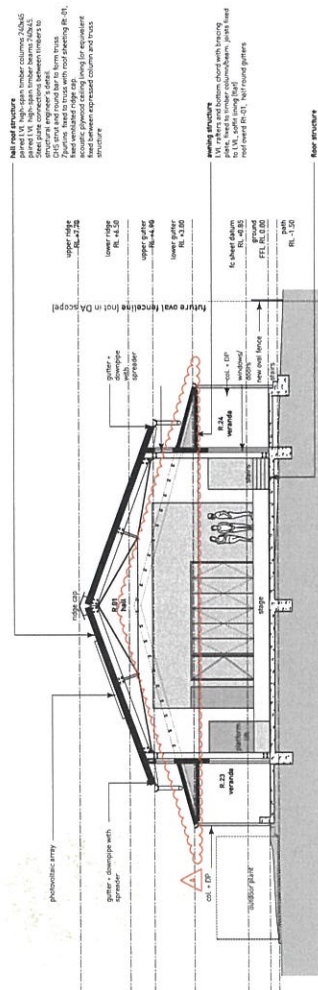
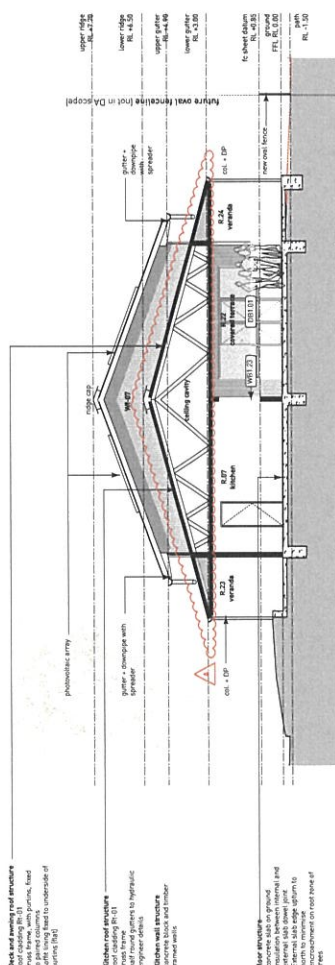
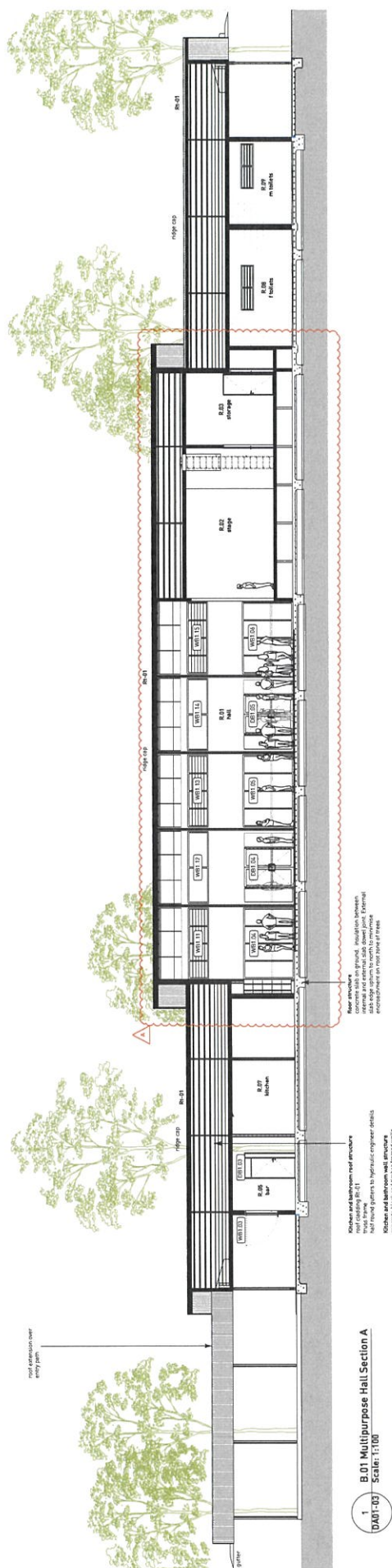
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Location Plan, sourced from SixMaps - NTS

Materials & Colour Schedule				
Sl. No.	Location	Type	Substrate	Colour
1-4	Reinforced Plastics	Impregnated with Polyurethane	-	-
5-6	Reinforced Plastics	Impregnated with Polyurethane	-	-
7-8	Reinforced Plastics	Impregnated with Polyurethane	-	-
9-10	Reinforced Plastics	Impregnated with Polyurethane	-	-
11-12	Reinforced Plastics	Impregnated with Polyurethane	-	-
13-14	Reinforced Plastics	Impregnated with Polyurethane	-	-
15-16	Reinforced Plastics	Impregnated with Polyurethane	-	-
17-18	Reinforced Plastics	Impregnated with Polyurethane	-	-
19-20	Reinforced Plastics	Impregnated with Polyurethane	-	-
21-22	Reinforced Plastics	Impregnated with Polyurethane	-	-
23-24	Reinforced Plastics	Impregnated with Polyurethane	-	-
25-26	Reinforced Plastics	Impregnated with Polyurethane	-	-
27-28	Reinforced Plastics	Impregnated with Polyurethane	-	-
29-30	Reinforced Plastics	Impregnated with Polyurethane	-	-
31-32	Reinforced Plastics	Impregnated with Polyurethane	-	-
33-34	Reinforced Plastics	Impregnated with Polyurethane	-	-
35-36	Reinforced Plastics	Impregnated with Polyurethane	-	-
37-38	Reinforced Plastics	Impregnated with Polyurethane	-	-
39-40	Reinforced Plastics	Impregnated with Polyurethane	-	-
41-42	Reinforced Plastics	Impregnated with Polyurethane	-	-
43-44	Reinforced Plastics	Impregnated with Polyurethane	-	-
45-46	Reinforced Plastics	Impregnated with Polyurethane	-	-
47-48	Reinforced Plastics	Impregnated with Polyurethane	-	-
49-50	Reinforced Plastics	Impregnated with Polyurethane	-	-
51-52	Reinforced Plastics	Impregnated with Polyurethane	-	-
53-54	Reinforced Plastics	Impregnated with Polyurethane	-	-
55-56	Reinforced Plastics	Impregnated with Polyurethane	-	-
57-58	Reinforced Plastics	Impregnated with Polyurethane	-	-
59-60	Reinforced Plastics	Impregnated with Polyurethane	-	-
61-62	Reinforced Plastics	Impregnated with Polyurethane	-	-
63-64	Reinforced Plastics	Impregnated with Polyurethane	-	-
65-66	Reinforced Plastics	Impregnated with Polyurethane	-	-
67-68	Reinforced Plastics	Impregnated with Polyurethane	-	-
69-70	Reinforced Plastics	Impregnated with Polyurethane	-	-
71-72	Reinforced Plastics	Impregnated with Polyurethane	-	-
73-74	Reinforced Plastics	Impregnated with Polyurethane	-	-
75-76	Reinforced Plastics	Impregnated with Polyurethane	-	-
77-78	Reinforced Plastics	Impregnated with Polyurethane	-	-
79-80	Reinforced Plastics	Impregnated with Polyurethane	-	-
81-82	Reinforced Plastics	Impregnated with Polyurethane	-	-
83-84	Reinforced Plastics	Impregnated with Polyurethane	-	-
85-86	Reinforced Plastics	Impregnated with Polyurethane	-	-
87-88	Reinforced Plastics	Impregnated with Polyurethane	-	-
89-90	Reinforced Plastics	Impregnated with Polyurethane	-	-
91-92	Reinforced Plastics	Impregnated with Polyurethane	-	-
93-94	Reinforced Plastics	Impregnated with Polyurethane	-	-
95-96	Reinforced Plastics	Impregnated with Polyurethane	-	-
97-98	Reinforced Plastics	Impregnated with Polyurethane	-	-
99-100	Reinforced Plastics	Impregnated with Polyurethane	-	-

[illegible][illegible]





Rev	Date	By	Notes
A	21/6/77	CA	building size, parking

notes

1. all dimensions in mm.
2. do not scale from drawing.
3. this drawing has been prepared for Development Approval purposes only and is not to be used for tender or construction.
4. clarification to be sought from the architect in the event of any discrepancies in the documentation or further information is required.

Consultants

Architect - Hayes Reynolds Consulting
contact ph: 5408 300 199

BCA / DMA - Design Confidence
contact ph: 821 8279 2129

Construction Management - Australia
contact ph: 821 8514 7226

Electrical Engineering - Barman
contact ph: 1300 277 451

Quantity Surveyer - Aljay Group
contact ph: 821 9383 2311

Planner - SJB
contact ph: 821 9205 1911

Surveyor - Langford & Bines
contact ph: 827 6867 1131

Structural Engineering - Engineers
contact ph: 827 2261 156

Soil, Sealing, Engineers - JMA Consulting Engineers
contact ph: 827 8427 1200

Traffic Engineer - Lyle Marshall & Partners
contact ph: 827 1344 0086

DUNN & HILLAM

Workshop 1 Pty Ltd
10 Dunn & Milgram Architects
ACN 098 300 764/45 17 000 207 764
20/515 Gordon's Road, Runcorn NSW 2119
T +61 2 9236 7715
E admin@dundemilgram.com.au
Innovative Architecture, Active Design
Location: Torquay NSW 4220 to 4226
For drawing, the information and design
has been submitted to the Architectural & Design

Client	Cedar Grove Council	Drawn	CA	Check	BO
Project	Wood Oval, Positions	Draw No.	DA03-03	Rev	A
Issue	Wood Oval, Cedar 2025	Job No.	21_205		
Date	Thu, 21 Apr 2022				
Scale	1:100				
Drawing	B.01 Multipurpose Hall Section				

Notes: 1. All dimensions in feet and inches. 2. The drawing has been prepared for construction purposes only. 3. The drawing has been prepared for construction purposes only. 4. The drawing has been prepared for construction purposes only.

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Item	Description
1.00	General Notes
2.00	Foundation
3.00	Framing
4.00	Roofing
5.00	Exterior Finishes
6.00	Interior Finishes
7.00	Mechanical
8.00	Electrical
9.00	Plumbing
10.00	HVAC
11.00	Fire Protection
12.00	Life Safety
13.00	Accessibility
14.00	Other

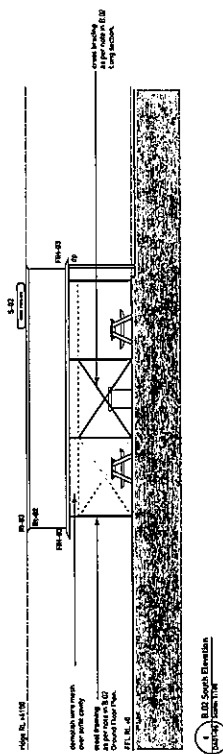
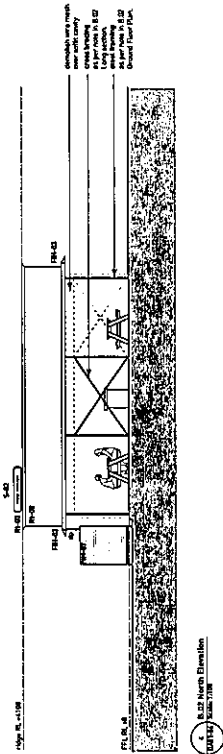
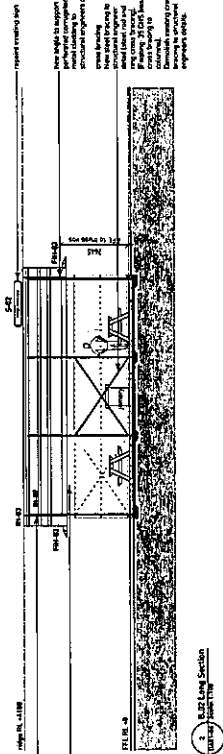
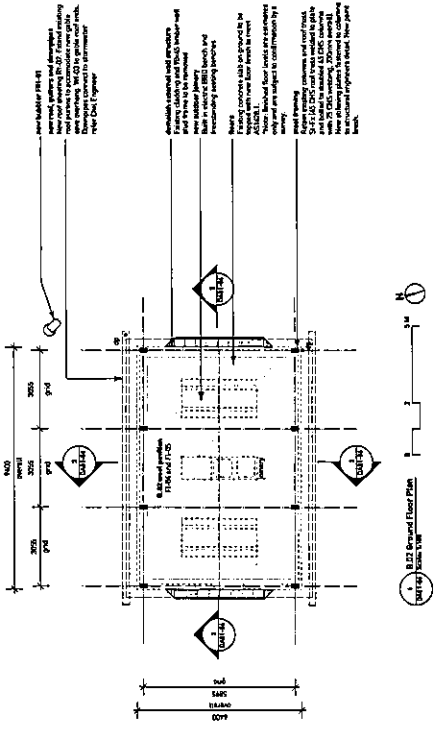
Rev. Date By Notes

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NOTES:
All measurements of existing structures to be made from the same datum as the proposed structures and elevations.

Notes: Assumed floor levels are approximate only and are subject to confirmation by a survey.

Code	Year	Material	Notes
1-1	2018	Concrete	Foundation
1-2	2018	Concrete	Foundation
1-3	2018	Concrete	Foundation
1-4	2018	Concrete	Foundation
1-5	2018	Concrete	Foundation
1-6	2018	Concrete	Foundation
1-7	2018	Concrete	Foundation
1-8	2018	Concrete	Foundation
1-9	2018	Concrete	Foundation
1-10	2018	Concrete	Foundation
1-11	2018	Concrete	Foundation
1-12	2018	Concrete	Foundation
1-13	2018	Concrete	Foundation
1-14	2018	Concrete	Foundation
1-15	2018	Concrete	Foundation
1-16	2018	Concrete	Foundation
1-17	2018	Concrete	Foundation
1-18	2018	Concrete	Foundation
1-19	2018	Concrete	Foundation
1-20	2018	Concrete	Foundation

Rev: Date: By: Notes:

1. All dimensions in feet.
2. The proposed structures are to be constructed on the same datum as the existing structures.
3. The proposed structures are to be constructed on the same datum as the existing structures.
4. The proposed structures are to be constructed on the same datum as the existing structures.
5. The proposed structures are to be constructed on the same datum as the existing structures.
6. The proposed structures are to be constructed on the same datum as the existing structures.

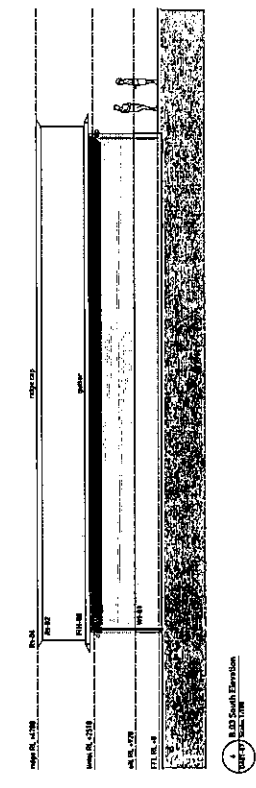
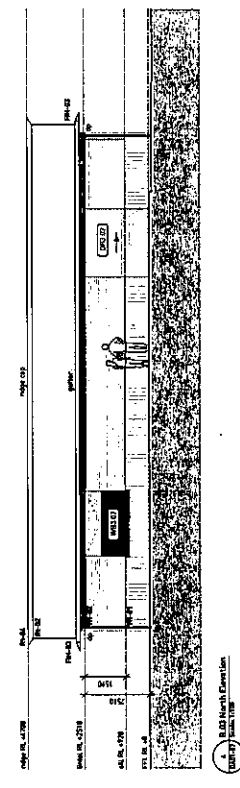
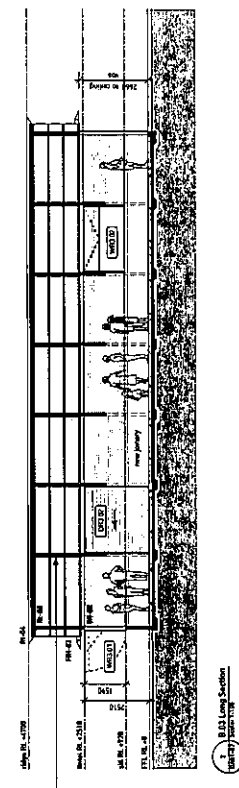
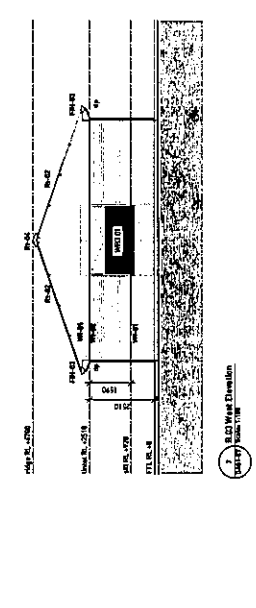
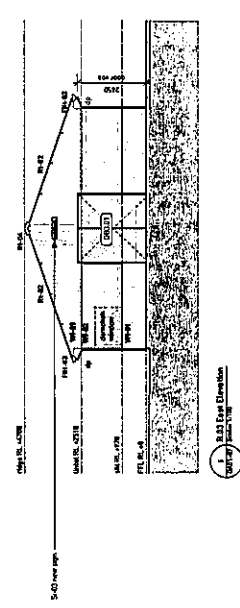
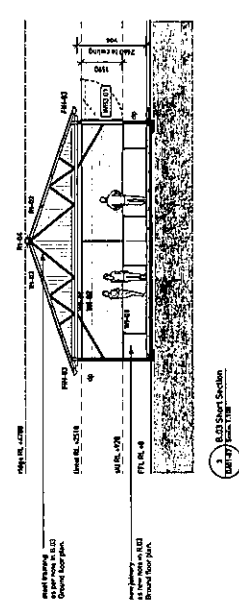
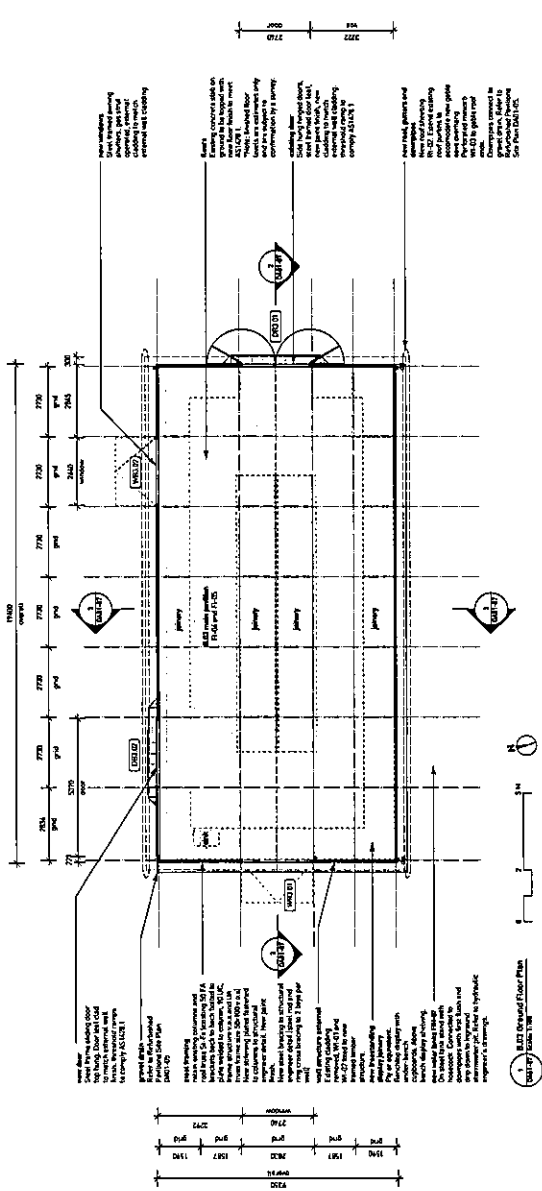
Comments:

Approved: [Signature]
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By: [Name]
Title: [Title]
Company: [Company]
Address: [Address]
City: [City]
State: [State]
Zip: [Zip]
Phone: [Phone]
Fax: [Fax]
Email: [Email]
Website: [Website]
Project: [Project]
Drawing: [Drawing]
Sheet: [Sheet]
Scale: [Scale]
Date: [Date]
By: [Name]
Title: [Title]
Company: [Company]

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2. The proposed structures are to be constructed on the same datum as the existing structures.
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6. The proposed structures are to be constructed on the same datum as the existing structures.

Client: [Client]
Project: [Project]
Name: [Name]
Date: [Date]
Scale: [Scale]
Drawing: [Drawing]
Sheet: [Sheet]
Date: [Date]
By: [Name]
Title: [Title]
Company: [Company]



Mount a big bag of walrus blubber on the wall and use it as a lampshade. Put a lamp inside it and you have a lamp.

Code	Type
51-52-53-54	Expanding permitted street structure
55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100	Item permitted street structure
101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200	Item permitted street structure
201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300	Item permitted street structure
301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400	Item permitted street structure
401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500	Item permitted street structure
501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600	Item permitted street structure
601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700	Item permitted street structure
701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800	Item permitted street structure
801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900	Item permitted street structure
901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000	Item permitted street structure

Ref. Order No.

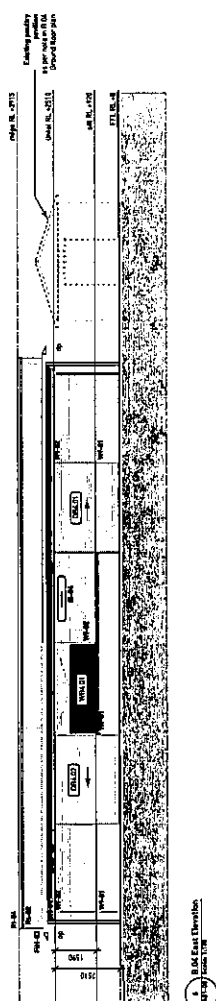
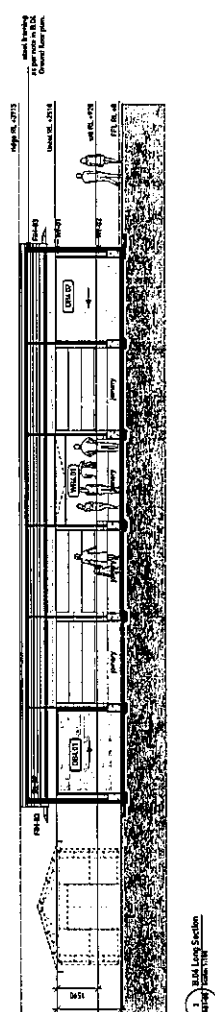
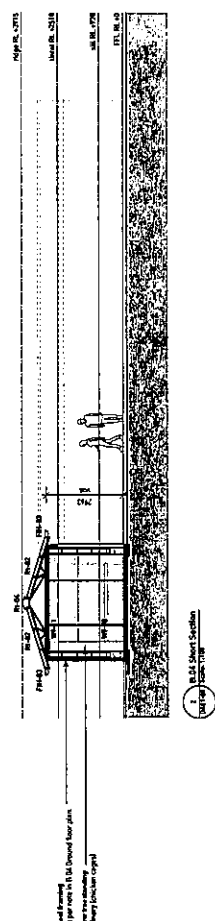
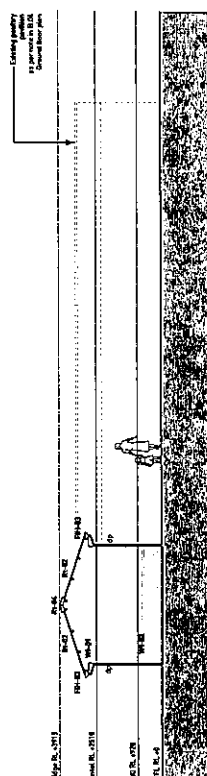
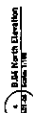
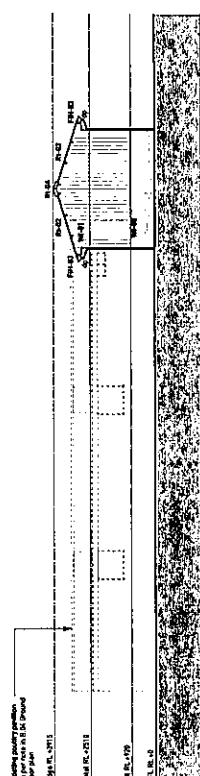
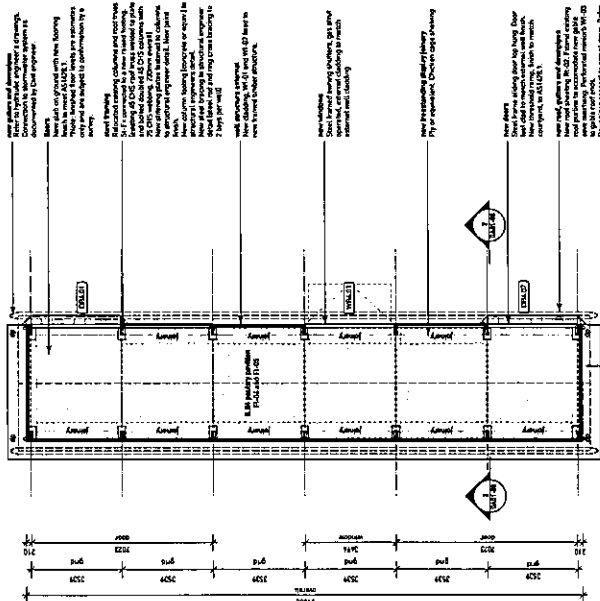
1. clarification to be sought if it is not to be used for another construction.

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Client	Coler State Council
Project	World Qual Problems
Version	World Qual, Coler 2026
Summary	Graduation Approval
Date	Thu, 21 Apr 2027
Scale	1,000 GAI
Encoding	8-bit Floating Point
Order No.	CM21-08
Web No.	21_005
Owner	CA
Country	CA



Notes: All model coefficients are estimates only and are subject to confirmation by a survey.

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New Data My Market

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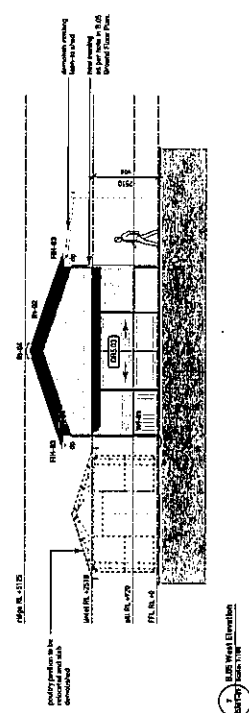
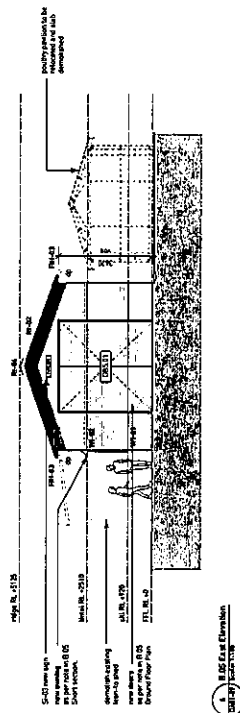
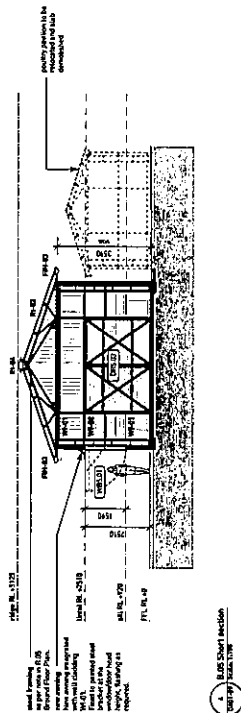
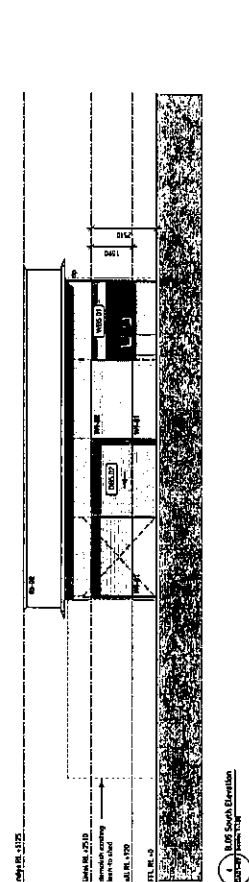
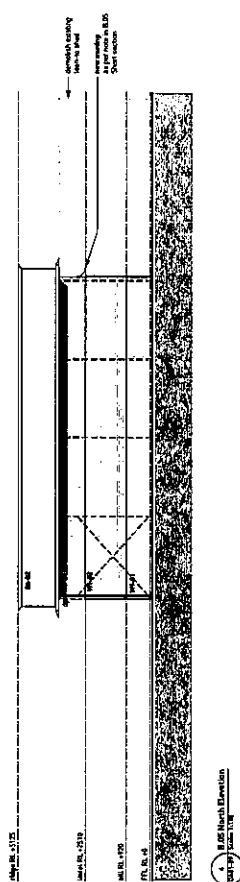
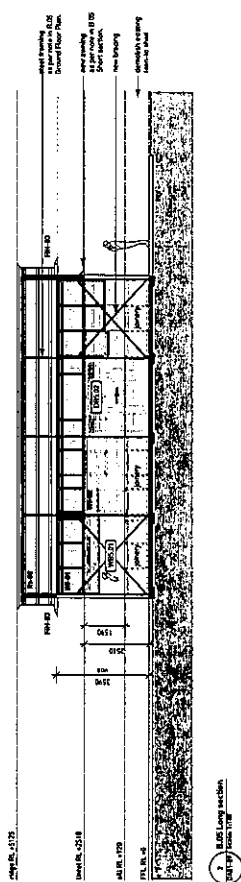
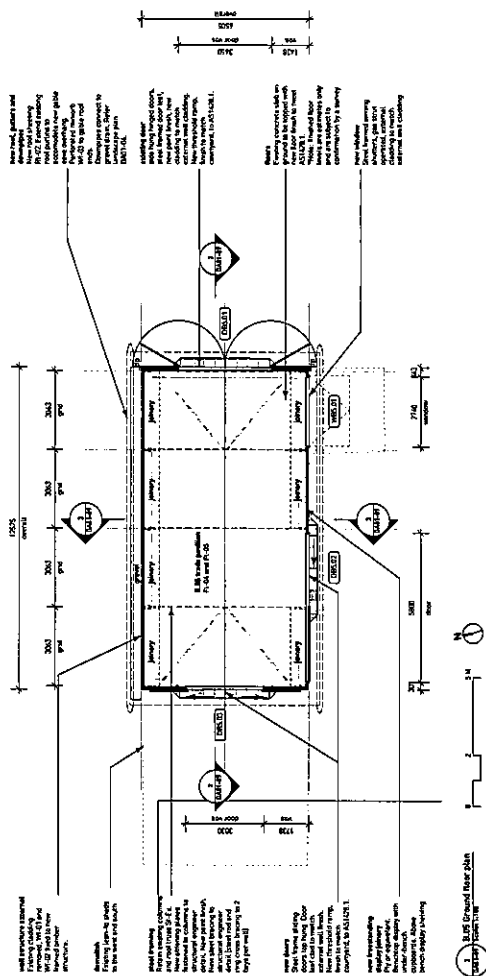
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enquiries to: **Pro Ltd**
 20 Duke & Wilton Architects
 14 Old St, London EC1A 3DF
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 020 7463 1601
 020 7463 1602
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Item	Case Study Council	100
Project	Word Best Practices	CA
Issue	Word Best Practices, October 2020 Development Agreement	CA
Due	The 21 Apr 2022	CA
Estimate	1,000	CA
Planning	8,000	CA
Review	CA/1,000	CA
With Review	71,000	CA



ITEM 2

**Arboricultural Impact Assessment
(Wade Ryan Contracting)**

**ARBORICUTURAL ASSESSMENT FOR RE-DEVELOPMENT OF
WARD OVAL PAVILION
COBAR SHIRE COUNCIL NSW – 2021-22**

1. INTRODUCTION.

Cobar Shire Council are planning the re-development of the Ward Oval pavilion – off Brennan Street Cobar. There are a number of existing trees around the development site and an assessment of the tree vegetation is required to determine what trees are on site, condition, significance and recommendations for retention (or removal); to assist the design and planning process.

2. SCOPE AND PURPOSE.

The report has been commissioned by Carly Hunter - Project Coordinator with Cobar Shire Council (Contact 0419 506 641); and Rose Davies - Dunn & Hillam Architects (Contact 0420 820 010). The site was formally inspected on 15 July 2021.

The report is designed to provide;

- accurate identification of tree vegetation,
- tree condition, including any hazards present
- evaluation of the trees relative to their contribution to the environment, amenity and any other identified values
- evaluation of potential development impacts
- recommendations for management of the issues identified.

Interpretation of impacts and recommendations are based on the author's interpretation of *Australian Standard 4970-2009 Protection of trees on development sites*.

Diagram One provides identification of the site within the Ward Oval Precinct and general number ordering of the trees.

Diagram Two provides the proposed site plan for the development with tree locations, numbers and Tree Protection Zones allocated within comments.

Table one provides a detailed list and evaluation criteria of the trees surrounding the development. Table 1 is also provided in Microsoft Excel Format – as a separate file.

The following Drawings were supplied to aid in the evaluation process.

Ward Oval Pavilion – Preliminary DA Data Set – Brennan St Cobar 2835. (Various Lot numbers). Cobar Shire Council. Dunn and Hillam Architects – 33 Salisbury St Botany NSW 2019. Job No. 21_305 Dated 18 Oct 2021.

Page 3 – drawing no. DA01-01 has been extracted and included at the conclusion of the report.

Ward Oval Pavilion Cobar – Slab and Framing and ground works plan. Drawing A-010 dated 12 April 2022. Dunn and Hillam Architects – 33 Salisbury St Botany NSW 2019. Job No. 21_305

This drawing has been edited and comments include – at conclusion of this report.

3. Site Conditions and Background.

The Ward Oval Precinct comprises a multi-purpose sport and recreation facility – including formal sporting grounds, Showground, open space areas, stock yards and supporting buildings, including a grand stand. The proposal is to re-develop the existing Grandstand into a Pavilion with enhanced facilities.

The proposal for the redevelopment of the pavilion includes other associated buildings to be refurbished to the west of the current sporting pavilion and the car park to the north of the current pavilion.

A scattering of amenity trees – mostly Australian Natives pieces are contained broadly across the site. The existing canopy coverage is considered a low percentage, considering the site is an open space recreation facility and Cobar is located in the semi-arid area of central west of NSW.

There are some 38 trees identified and reported within the around the proposed re-development of the Pavilion and other buildings.

There is no remnant vegetation identified. There are no individual significant trees identified, although there is a line of 9 medium to large *Eucalyptus camaldulensis* (River Red Gums) located in a single line on the west boundary of the development that as a group of trees are considered to be significant. 8 of the 9 trees forms line of larger native vegetation that has some imposing qualities in the local landscape and provides some quality amenity values, as some of larger shade trees in the vicinity.



Photo 1 – Line of 8 *Eucalyptus camaldulensis* (River Red Gums) that on the west edge of the development site. Buildings in the back ground are to be refurbished. Trees numbered 10 to 18.



Photo 2 – Area of Car park that forms the north area of the development site, with existing pavilion in middle of shot and the other buildings to right that are to be refurbished. Proposed building encroaches heavily on circled trees – tree numbers 27 – 31 – right side circle. Tree 32 to left of building and as per photo 3 below.

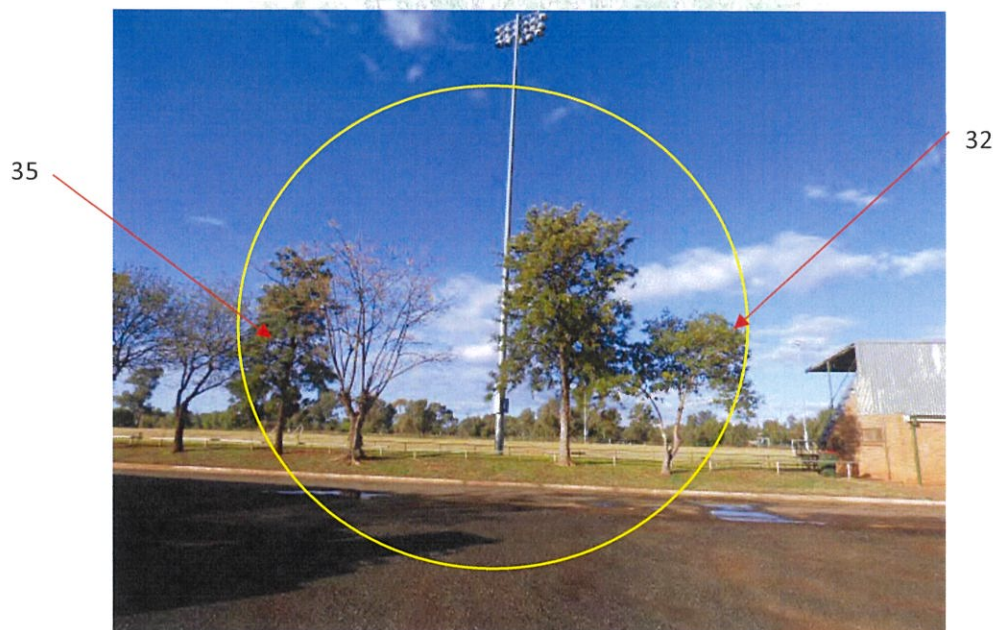
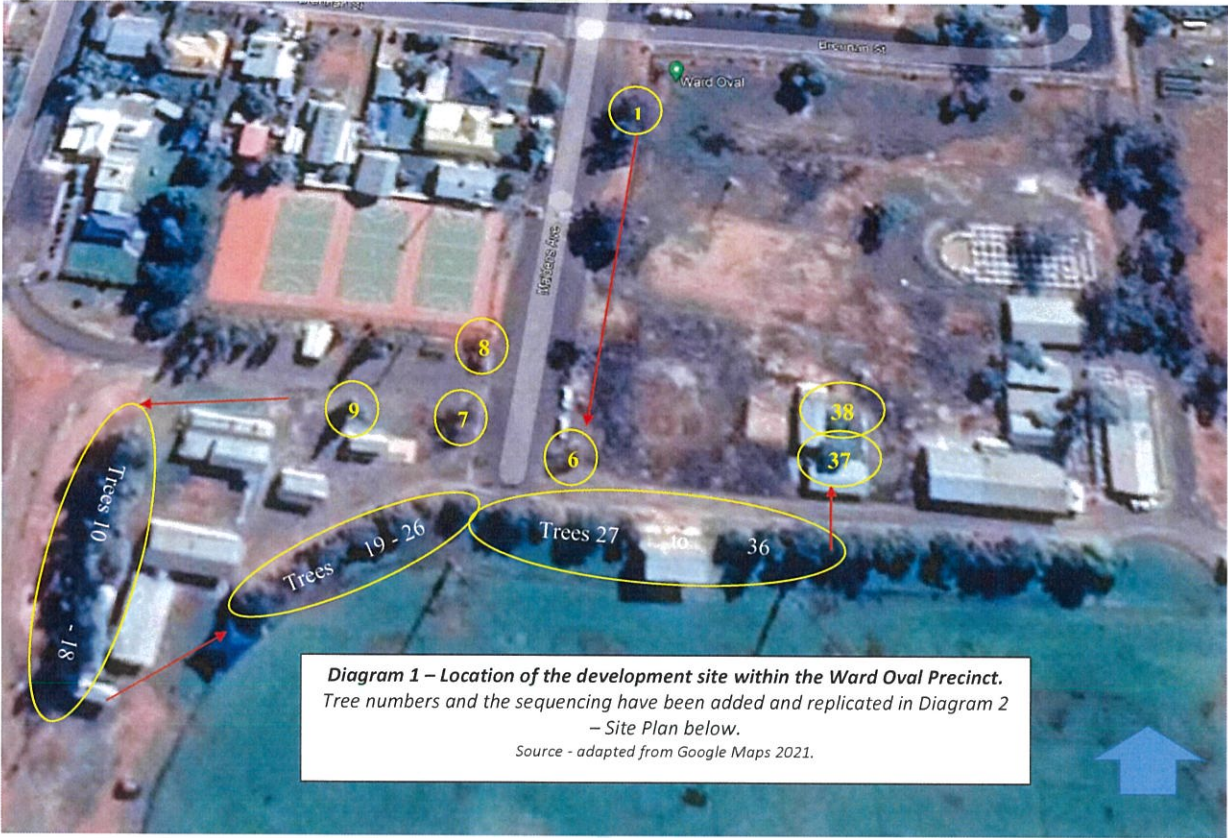


Photo 3 – Example of some of the other trees contained within the development site. Proposed new building heavily conflicts with circled trees – numbers 32 -35 inclusive (Tree 32 on right)



4. Summary of Tree Assessment and Initial Tree Evaluation.

- 38 Trees are identified as potentially impacted by the development.
- Each tree is individually graded for its retention value within the development based upon a range of criteria as detailed within Table 1. The following Table A is a summary of all 38 trees retention values.
- None of the 38 trees are identified as significant as individual trees, although there is a strong argument that the line of trees numbered 10 to 17 inclusive are significant as a group of trees that are somewhat imposing within the local landscape and provide good amenity values as the only larger trees in the immediate vicinity and specifically within the development area.

Table A – Summary of Tree Evaluation		
Evaluation Category	Descriptors	Tree No's
Retain Priority	A Significant or Very Significant tree – Strong positive amenity and/or other values – normally long life expectancy. Replacement very long term – 80-100 years or more Removal would be very difficult to justify	
Retain	Tree with Positive Amenity values and/or other values with longer life expectancy – replacement long term 40- 100 years. Removal would be difficult to justify.	1, 2, 3, 10 to 17 inclusive.
Retain if Possible	Tree with some positive amenity or other values – in fair or good condition with some useful remaining life expectancy or contribution. However if the impact on the development of retention is very high or the development impact on the tree is high then removal or replacement can be considered a valid decision. On balance of considerations the tree is worth retaining.	5 to 9 inclusive 19 to 24 Inclusive 26, 27 30, 31 33 to 38 Inclusive
Remove	The tree is normally in poor condition with short useful life expectancy, or structurally unsound to a point not worth ameliorating. A new tree is normally considered a better long term option.	25, 28, 29, 32
Remove Priority	The tree is in very poor condition or a weed species or structurally very poor – a replacement tree/s is a far better option	17

5. **Discussion and Development impacts.** On Review of the final drawings for the development and assessment of the impacts to the trees, the following is a summary of the trees that are recommended for removal.

Trees numbers 4, 18 and 27 to 35 inclusive are recommended for removal.

The proposed development footprint of the new north side of the building is located at or inside the structural root zones of Trees 27 to 35 and impacts to the trees cannot be adequately managed to maintain the vitality and integrity of the trees. Several were graded as 'Retain if Feasible' – however given the very major impacts to the trees establishing a new line of trees is considered a far better option. Trees 4 and 18 are in very poor condition – retention is futile.



Photo 4 Tree 33

Example of one of the trees across the north side of the building with exposed root system – that will be severed immediacy outside the circle if it was retained. This is inside the structural root zone.



Photo 5 Tree 30 –

Further example of tree located at the north side of the proposed building where the new building alignment will be inside the SRZ – again major root system will be lost and severed.

- Tree 29 – small *Melia azedarach* (White Cedar) with onset of decay in stem system. Tree is considered in poor condition with likely short useful life expectancy. Removal and replacement with a new tree is considered a better option that ensuring the development protects the tree through the development process only to have the tree replaced in the coming 4-5 years or so. It is often the case that a new tree will establish in location with a better long term result than an existing tree having to cope with major impacts from development.

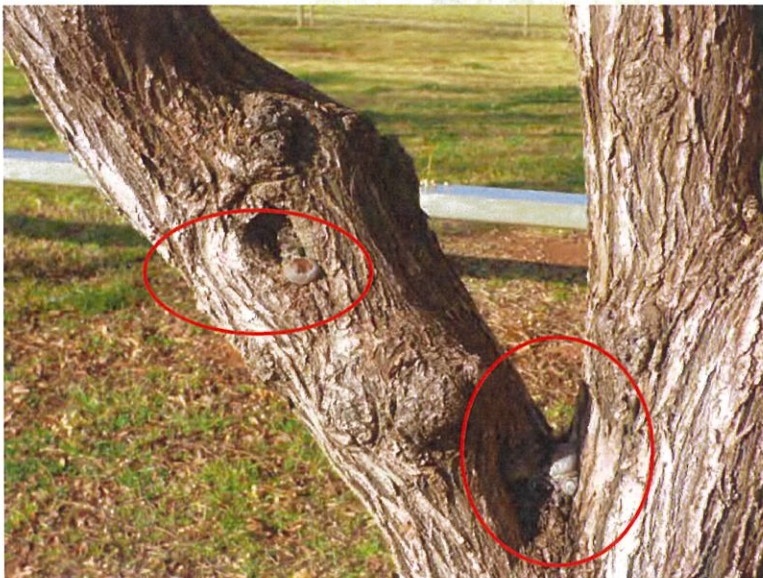


Photo 6
Tree 29 with onset of decay in primary stem structures – evidence by developing bracket fungi. Sounding with a plastic mallet indicated moderate levels of decay.
Tree removal and replacement is considered a better option.

- **Tree 28 and 32** are small mature *Lophostemon confertus* (QLD Brush Box). The species is considered unsuitable for the Cobar Climate. The tree would require significant supplement irrigation to have any real opportunity to develop into a medium sized tree (of which it is capable in good conditions) with good amenity values. The current foliage or leaf density on tree 28 is only 50 to 60% at best. Tree 32 is about 75%.
 - Review of the Cobar Rainfall statistics (BOM 2021) indicated that the calendar years of 2017, 2018 and 2019 had poor or very poor natural rainfall. Annual average rainfall is 389 mm. 2018 produced only 136 mm in total. These two trees clearly struggled to survive these years despite some irrigation at the location.
 - Rainfall for 2020 was slightly above average at 429 mm. The 7 months year to date for 2021 has resulted in 75% of the total yearly average.
 - These rainfall statistics clearly indicate that the these two trees should have strong canopy or leaf coverage from recent 18 months of good rainfall if the species was able to cope with the local conditions.



Photo 7 – Tree 28.
Lophostemon confertus
(QLD Brush Box)

Note the poor leaf density across the tree. Given the time of year and recent good rainfall the canopy should be much greater in density.



Photo 8 - Tree 18 is a senescent *Eucalyptus camaldulensis* (River Red Gum) located almost directly under the high voltage power lines – the tree has about 80% stem dysfunction and in the later stages of decline. This tree represents a good example of what can occur to a large tree that is continually subjected to hard pruning and lopping. The tree should be removed as part of the demolition process.



Photo 9 – Tree 10 and sequential trees to right.

Line of mature to over mature trees that as a group form a significant stand of trees which are imposing on the local area and have elevated amenity values specifically with shade. As Australian Native trees they have elevated environmental values.

The trees have attracted significant bird (parrots) chewing in the branch unions that has led to notable decay in many of the branch unions across the line of trees. This has led to quite a number of branch failures over time and there are many branches that have elevated failure potential. Failure potential is indicated as moderate and in some branches high.

It is recommended that structured canopy reductions in the order of 20% are undertaken across the line of trees as part of the development and to prolong the useful life of the trees.

The 20% reduction should be removal of the outer canopy only as per section 7.3.2 – Reduction pruning of *Australian Standard 4373 -2007 – Pruning of Amenity Trees*.

Some canopy lifting may be required around trees 15-17 for work clearances.



Photo 10 and 11. Example of trees 10 to 17

*Recently failed branch circled above and High risk failure circled below.
Bark stripping by parrots can be seen, which opens the wood to decay processes.*



6. Findings and General Recommendations.

A. Tree Retention or Removal Decisions.

Existing site trees that are of some age, have good structure and longer life expectancy should be considered for retention and protection unless there is a compelling reason to remove them. New trees cannot replace such trees within short space of time. The loss of tree benefits and public amenity is immediate and replacement time frames are in the order of decades for larger trees.

Alternatively trees in poor condition and/or with short useful life expectancy are normally recommended for removal on the basis that the effort and cost of retention through the development is not commensurate with short term amenity value, or risk a tree may pose if it fails. Removal of the tree and establishing a new tree with a long life expectancy is a better option. Additionally the tree in poor condition often has little ability to cope with significant changes in its root zone from the development impact.

Where trees have major impacts to the tree protection zone then removal is likely the best alternative unless the tree is significant and specific measure can be developed to assist the tree through the development.

It should be noted that the calculated tree protection zone (TPZ) is for the most part the minimum space required for the tree to maintain viability and stability, and the actual tree root zone will in most instances extend well past the calculated TPZ; meaning that if the development encroaches up to the TPZ a large amount of roots and root space is still lost for the tree.

The footprint of the project is estimated about 1.1 hectare in area. The current canopy coverage is estimated about 2900 square meters – which represents a canopy coverage of about 25%. The project presents as having significant opportunity to greatly increase the canopy area coverage from new plantings. Specifically shade trees should be considered in the Cobar Climate.

B. Trees 4, 18 and 27 to 35 are recommended for Removal.

C. All other trees are recommended for retention and protection during construction.

D. Tree Protection Measures.

- Tree Protection measures should form part of the site project demolition and construction plan – **A tree Protection Plan**
 - The Tree protection Plan should be formulated as part of the demolition contract and reviewed as implemented by Council (or other relevant authority) prior to commencement of demolition.
 - It should remain current for the construction phase.

- Trees identified for retention should have effective Tree Protection fencing effected prior to commencement of demolition and construction.
- There should be no parking of vehicles, or plant or storage of any materials within the TPZ of the retained trees.
- Other specific measures outlined in *Australian Standard 4970 -2009 protection of trees on development sites* may be appropriate once final works are determined.
- There should be no trenching or excavation works within the TPZ without prior consultation with Level 5 Arboricultural consultant to evaluate the impacts on the trees. This specifically includes, trenching for services, electricity, water, gas communications sewer or irrigation pipes, general earth works, including landscaping, that disturbs the soil profile.
- Boring of post holes in the order of 150 to 200 mm diameter for the erection of boundary fence posts are identified as an acceptable impact within the TPZ, but not excavation of soil for the laying of strip footings.
- The landscaping plan for the project needs to consider the TPZ of the trees and look to maximise the opportunity for root retention and future root development – which will be important for the longevity of the trees.
 - Alleviating the heavy compaction of the soil around most of the trees should be considered.
- Any specified pruning, or clearance pruning of trees should be conducted before commencement of any works so that an effective tree protection barrier (fence) can be installed and the canopy not damaged by demolition or construction process.
 - Structured pruning of trees 10 to 17 should be considered to prolong the useful life of the trees and reduce risk of harm from limb failure – as noted above.

There is little point in trying to preserve trees through a demolition and construction project if the development does not respect the requirements of the trees.

Terms, Conditions and Limitations that apply.

Obviously, visual tree assessment from the ground has some limitation as every single portion of the tree cannot be observed or inspected. Most or the large majority of defects and tree issues can be observed from the ground. Where aerial inspection or other investigative means should be considered the report or email will recommend or provide those as an additional considerations. The integrity of the root zone of trees can often be difficult to determine from visual inspection – particularly on steep slopes and on shallow soil profiles. Unless there are indicators of some instability then most trees are effectively accessed as stable as part of Visual Tree Assessment.

Trees are a valuable asset and necessary part of both the urban and natural environment. They are the cornerstone of our environment and provide numerous benefits to our social wellbeing, biodiversity and ecology of any area. They provide water balance stability, salinity and erosion control, amenity, cultural, public health and aesthetic benefits; efforts should be made to preserve and plant new trees where possible. As an asset they require appropriate management and resource inputs.

It should be noted that trees cannot be guaranteed 'risk free'. All trees represent some degree of risk. Arboriculture is not an exacting science; rather it is an educated interpretation of the interaction of biotic and environmental circumstances, which change over time. It is not possible to determine or predict all limb or tree failures. This report is such an interpretation at the time of inspection.

Unless Quantified Tree Risk Assessment (QTRA) has been specifically applied and reported, then this report or email does not constitute a risk assessment. The Author does not seek to determine what level of risk any individual or organisation is prepared to accept but serves to provide tree managers with tree condition, hazards and other salient issues associated with the tree or trees; and provide or recommend management options.



21 April 2022

Wade Ryan Contracting - Arboriculture Consultant AQF Level 5.

BAppSc(EnvHort) – AdvDip OH&S

ISA Member - International Society of Arboriculture

QTRA – Registered Advanced User (4519).

Associate Member – Institute of Australian Consulting Arboriculturists (IACA)

Associate Member – The Arboriculture Association (UK)



™ ISA Member : 257486



AS8205.

Reference.

BOM (2021). *Australian Government Bureau of Meteorology. Monthly rainfall - Cobar MO.*
Accessed online 5/8/2021 at:
http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=139&p_display_type=da taFile&p_startYear=&p_c=&p_stn_num=048027

Table 1 - Tree Data File - Ward Oval Grandstand Re-Development - 2021-22 (last updated 1/04/2022)

Tree No	Species	General Location	Species Origin	General Size	DBH (m)	Height (m)	Canopy %	Age Class	Defects/Issues/Notes Present	Tree Vigor	General Condition	Environmental Rating	Expected Remaining Life	Significant Tree Status	Retention Value	Replacement Tree Size	Current Retention Value	Primary Reason for Recommendation	Secondary Reason for Recommendation	Development Proposed Action	Canopy Area (m²)	DBI	TP2	Known or Potential Impacts to Tree Road Comments
1	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Medium	0.55	11	11	Mature	2 branch failures - evidence of white ants in stem	3 - Good	3 - Good	3 - Medium	13 plus	Not Significant	2 - Good	10-20	Retain	Strong Environmental value	Positive amenity values	Retain - impacts unlikely	99.3	1.8	4.6	
2	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Small	0.33	11	12	Mature		2 - Good	2 - Good	3 - Medium	13 plus	Not Significant	2 - Good	10-20	Retain	Strong Environmental value	Positive amenity values	Retain - impacts unlikely	113.1	2.5	6.36	
3	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Small	0.7	8	15	Mature	Tree roots in conflict with kerbing and potentially water main	2 - Good	2 - Good	3 - Medium	13 plus	Not Significant	3 - Good	10-20	Retain	Strong Environmental value	Positive amenity values	Retain - impacts unlikely	176.8	2.8	8.4	
4	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Small	0.35	6	11	Mature	Decay in stem at 300mm to 1.2 m stem with 21 degree lean and canopy 80% unbalanced on lean - existing roots white ants	3 - Fair	4 - Poor	4 - Low	5 to 5	Not Significant	4 - Poor	5-10	Remove	Poor Condition	Other	Not determined	95.1	1.1	4.2	Fairly development conflict then remove and replace tree. Tree has poor outlook
5	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Small	0.29	8	8	Mature	Heavy root impacts and root restrictions - road and car park	3 - Fair	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	50.3	1.0	4.68	If any development conflict then remove and replace tree. Tree not recommended for removal but has limited retention value
6	Eucalyptus torquata (corral gum)	Madden ave - east	Aus Native	Small	0.35	7	7	Mature	Heavy root impacts and root restrictions - road and car park	3 - Fair	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	38.3	1.1	4.2	Fairly development conflict then remove and replace tree. Tree not recommended for removal but has limited retention value
7	Eucalyptus torquata (corral gum)	Madden ave - west	Aus Native	Small	0.35	7	10	Mature	Heavy root compaction	3 - Fair	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	76.0	2.1	4.2	Fairly development conflict then remove and replace tree. Tree not recommended for removal but has limited retention value
8	Eucalyptus torquata (corral gum)	Madden ave - west	Aus Native	Small	0.39	6	8	Mature	topped for power services - existing roots heavy root compaction	3 - Fair	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	50.3	1.2	4.68	If any development conflict then remove and replace tree. Tree not recommended for removal but has limited retention value
9	Power pylon (Mastline Pole)	Car park area south of West Ball courts	Exotic	Medium	0.35	13	5	Mature	Heavy root compaction - tree has poor to fair vigor some decay	4 - Poor	3 - Fair	5 - Very Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts unlikely	10.4	1.1	4.2	
10	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	North trees in line of West side access road	Aus Native	Large	0.97	18	16	Over Mature	Stem system sound. Heavy bird chipping in most branch unions - numerous branch failures - 10 or more - past vigor poor to fair - current vigor good after good rainfall - 40% canopy dieback	3 - Fair	3 - Fair	2 - High	13 plus	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	201.1	5.9	11.6	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
11	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.7	18	18	Over Mature	Stem system sound. Heavy bird chipping in most branch unions - numerous branch failures - 10 or more - past vigor poor to fair - current vigor good after good rainfall - 40% canopy dieback	3 - Fair	3 - Fair	2 - High	9 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	198.0	5.8	8.4	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
12	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.45	14	10	Over Mature	Stem system sound. Heavy bird chipping in most branch unions - numerous branch failures - past vigor poor to fair - current vigor good after good rainfall - 25% canopy dieback	3 - Fair	3 - Fair	2 - High	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	198.0	2.4	5.4	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
13	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.6	15	12	Over Mature	Stem system sound. Heavy bird chipping in most branch unions - 6 branch failures - past vigor poor to fair - current vigor good after good rainfall	2 - Good	3 - Fair	2 - High	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	113.1	1.7	7.2	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
14	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.7	10	14	Over Mature	Stem system sound. Heavy bird chipping in most branch unions - 6 branch failures - past vigor poor to fair - current vigor good after good rainfall	2 - Good	3 - Fair	2 - High	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	154.0	2.8	8.4	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
15	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Medium	0.58	8	16	Mature	Spreading habit - large extended branches very low to ground - tree with notable galls on stem and branches	2 - Good	3 - Fair	3 - Medium	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	201.1	2.8	6.7	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
16	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.71	18	12	Mature	Tree with two stems - partially topped for power line conflict - decay in north stem - moderate risk of failure. 4 branch failures	2 - Good	3 - Fair	2 - High	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	113.1	1.9	8.5	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
17	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Large	0.7	13	10	Mature	Tree only 4m from HV power pole - 50% potential canopy removed due to power line conflict. Heavy epicormic shoots from recent clearance pruning. Heavy bird chipping across branch unions - decay in some unions. 4 or more branch failures - canopy over and on existing shed	2 - Good	3 - Fair	2 - High	5 to 15	Not Significant	3 - Fair	20+	Retain	Positive amenity values	Strong Environmental value	Retain - impacts to Manage	78.6	1.8	8.4	Tree requires some root zone considerations and structural canopy pruning impact from building footprint presents as clearing the TP2
18	Eucalyptus camaldulensis (River Red Gum) (not identified to sub species)	West side access road	Aus Native	Small	0.35	4	7	Sequent	Tree stem almost directly under power line - tree has been continually topped for clearance and now has extended decay and cambium dieback - only 20% stem function remains	3 - Very Poor	3 - Very Poor	4 - Low	5 to 5	Not Significant	3 - Very Poor	0-5	Remove Priority	Poor Condition		Not determined	88.3	2.1	4.2	Remove tree - sequent - will not recover
19	Metel exaradach (White Cedar)	West side oval edge	Aus Native	Small	0.58	4	12	Mature	Tree repeatedly heavily topped at 1m. Epicormic shoots very congested - 75 mm Ø - with lax attachment and decay. 4 branch failures	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts unlikely	113.1	1.6	7.0	
20	Metel exaradach (White Cedar)	West side oval edge	Aus Native	Small	0.88	7	6	Mature	Tree repeatedly heavily topped at 1m. Epicormic shoots very congested - 75 mm Ø - with lax attachment and decay. 4 branch failures	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts unlikely	90.3	1.2	4.8	
21	Metel exaradach (White Cedar)	West side oval edge	Aus Native	Small	0.45	8	12	Mature	Tree repeatedly heavily topped at 1m. Epicormic shoots very congested - 50 mm Ø - with lax attachment. Topped 200mm	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	113.1	2.4	5.4	Protect exposed roots during development
22	Fraxinus angustifolia (Sweet Lab)	West side oval edge	Exotic	Small	0.2	5	5	Mature	Tree moderately suppressed by adjacent trees	4 - Poor	3 - Fair	5 - Very Low	5 to 15	Not Significant	4 - Poor	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	19.6	1.7	2.4	
23	Metel exaradach (White Cedar)	West side oval edge	Aus Native	Small	0.32	6	9	Mature	Tree repeatedly heavily topped at 1m. Epicormic shoots very congested - 85 mm Ø - with lax attachment	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	83.6	2.1	5.8	

Tree No	Species	General Location	Species Origin	General Size	DBH (m)	Height (m)	Canopy %	Age Class	Defects/Hazards/Issues Present	Tree Vigor	General Condition	Environmental Rating	Expected Remaining Life	Significant Tree Values	Retention Value	Replacement Time Frame	Retention Recommendation	Primary Reason for Recommendation	Secondary Reason for Recommendation	Development Proposed Action	Canopy Area (m²)	SRZ	TPZ	Known or Potential Impacts to Tree
14	Malva asperifolia White Cedar	West side oval edge	Aus Native	Small	0.47	8	12	Mature	Tree repeatedly heavily topped at 3m. Epicormic shoots very congested - 75 mm Ø - with fair attachment and decay. Stable.	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	113.1	2.4	5.6	
15	Malva asperifolia White Cedar	West side oval edge	Aus Native	Small	0.21	5	5	Over Mature	Tree repeatedly topped at 2m - epicormic attachment fair - 150mm Ø	4 - Poor	4 - Poor	5 - Very Low	0 to 5	Not Significant	4 - Poor	0-5	Remove	Poor Condition		Not determined	19.6	3.7	2.5	
16	Malva asperifolia White Cedar	West side oval edge - line of seven back of Maudsley ave	Aus Native	Small	0.35	7	8	Mature	Tree repeatedly heavily topped at 3m. Epicormic shoots very congested - 50 mm Ø - with fair attachment and light decay in stems	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	50.3	2.1	6.2	
17	Malva asperifolia White Cedar	West side oval edge - Maudsley ave	Aus Native	Small	0.5	8	9	Mature	Tree repeatedly heavily topped at 3m. Epicormic shoots very congested - 100 mm Ø - with fair attachment and light to moderate decay in stems	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Remove	65.6	2.5	6.0	Removal recommended as impacts inside SRZ - new tree considered a better option
18	Lophospermum confertum Old Bush Box	West Side Grandstand	Aus Native	Small	0.31	6	8	Over Mature	Tree has had mostly poor vigour for some time. Species not well suited to the local environment.	4 - Poor	3 - Fair	4 - Low	0 to 5	Not Significant	4 - Poor	5-10	Remove	Poor Condition	Species not suited to Environment	Remove	50	2.02	0.72	Tree could be retained if no impacts to TPZ. However in scale of development a new tree is likely a better option
19	Malva asperifolia White Cedar	West Side Grandstand	Aus Native	Small	0.28	5	5	Over Mature	Primary branching structures topped at 3m some time ago - and several further topping events. Current epicormic shoots 80mm diameter with fair to good attachment - topping points with light levels of decay. Primary stem system with significant levels of decay and non-healthy looking foliage - none produced.	3 - Fair	4 - Poor	4 - Low	0 to 5	Not Significant	5 - Very Poor	5-10	Remove	Poor Condition	Replaced in short term	Remove	20	1.94	3.36	Species prone to decay - stem system in poor condition - small tree is not worth retaining - can easily be replaced in short term.
20	Malva asperifolia White Cedar	West Side Grandstand	Aus Native	Small	0.55	10	10	Mature	Primary branching structures topped at 3m some time ago - and several further topping events. Current epicormic shoots 80mm diameter with fair to good attachment - topping points with light levels of decay. Very large exposed roots in lawn.	2 - Good	3 - Fair	4 - Low	10 plus	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Remove	79	2.57	6.6	Removal recommended as impacts inside SRZ - new tree considered a better option
21	Malva asperifolia White Cedar	West Side Grandstand	Aus Native	Small	0.5	8	8	Mature	Primary branching structures topped at 5m some time ago - and several further topping events. Current epicormic shoots 80mm diameter with fair to good attachment - topping points with light levels of decay. Exposed roots in lawn.	2 - Good	3 - Fair	4 - Low	10 plus	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Remove	50	2.47	6	Removal recommended as impacts inside SRZ - new tree considered a better option
22	Lophospermum confertum Old Bush Box	East End grandstand	Aus Native	Small	0.22	6	7	Mature	Tree has had mostly poor vigour for some time. Species not well suited to the local environment.	3 - Fair	4 - Poor	4 - Low	0 to 5	Not Significant	4 - Poor	5-10	Remove	Poor Condition	Species not suited to Environment	Remove	35	1.75	2.64	Development in direct conflict with tree - can not be retained - a new tree is a better option.
23	Ipomoea robusta Solly Oak	East End grandstand	Aus Native	Medium	0.6	12	10	Mature	Sound tree in good condition. 1 large exposed buttress root.	3 - Good	3 - Good	3 - Medium	10 plus	Not Significant	2 - Good	10-20	Retain if possible	Sound tree suited to site	Positive amenity values	Remove	79	2.25	6.8	Removal recommended as impacts inside SRZ - new tree considered a better option - canopy would also be in conflict with building
24	Malva asperifolia White Cedar	East End grandstand	Aus Native	Small	0.5	9	9	Mature	Primary branching structures topped at 5m some time ago - and several further topping events. Current epicormic shoots 80mm diameter with fair to good attachment - topping points with light levels of decay. Exposed roots in lawn.	2 - Good	3 - Fair	4 - Low	10 plus	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Remove	64	2.47	6	Removal recommended as impacts inside SRZ - new tree considered a better option - canopy would also be in conflict with building
25	Ipomoea robusta Solly Oak	East End grandstand	Aus Native	Medium	0.26	9	6	Mature	Tree presents as likely mature - despite species potential for much greater dimensions. Sound tree.	3 - Fair	2 - Good	3 - Medium	10 plus	Not Significant	3 - Fair	10-20	Retain if possible	Sound tree suited to site	Positive amenity values	Retain - impacts to Manage	13	1.88	5.12	
26	Fraxinus angustifolia (Green Ash)	East Side Grandstand	Exotic	Small	0.3	6	8	Mature	Tree in good condition	2 - Good	2 - Good	5 - Very Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Retain - impacts to Manage	50.3	1.0	9.6	
27	Malva asperifolia White Cedar	Easting bar area	Aus Native	Small	0.35	8	9	Mature	Lower stem sound - tree repeatedly topped at 0.4m mark. Epicormic shoots fair to poor attachment and very congested.	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	61.6	2.1	4.2	Site plan indicates that retention is likely not possible due to major impacts from new car park.
28	Malva asperifolia White Cedar	Easting bar area North of two	Aus Native	Small	0.33	7	8	Mature	Lower stem sound - tree repeatedly topped at 0.4m mark. Epicormic shoots fair to poor attachment and very congested.	2 - Good	3 - Fair	4 - Low	5 to 15	Not Significant	3 - Fair	5-10	Retain if possible	Positive amenity values		Not determined	50.3	2.1	4.0	Site plan indicates that retention is likely not possible due to major impacts from new car park.

Total Approximate canopy coverage: 2957.0

Annexure 2 - Assessment and Evaluation criteria - Definitions.

Origin		General Tree Size		Age Class		General Condition - summation of all considerations. Includes Stem/Canopy Structure Defects, Form, Canopy Vigour, Extent of any decay, Pest and Disease Influences	ERL estimated remaining life in years under current Situation	Tree Vigour	Retention value	
Endemic	Species is native to this location	Very Large	> 25m	New	Recent Planting - last year or two	1 - Excellent	0	1 - Excellent	1 - Excellent	Interpretation Based on overall tree condition, species performance in local environment, expected remaining life and significance of tree in landscape
Aus Native	Species native to Australia but not this location	Large	10-25m	Young	Sapling, extended growth remaining	2 - Good	0 to 5	2 - Good	2 - Good	
		Medium	10-18m	Semi Mature	Some remaining growth to reach maturity for the site and species	3 - Fair	5 to 15	3 - Fair	3 - Fair	
Exotic	Species introduced to Australia	Small	< 10m	Mature	Considered mature size for site and species - typically no sign of decline	4 - Poor	15 plus	4 - Poor	4 - Poor	
		Very Small	< 3m	Over Mature	Tree has commenced to decline - obvious signs	5 - Very Poor	40 plus	5 - Very Poor	5 - Very Poor	
				Senescent	Extended signs of decline - recovery not expected					
				Dead	Little or no metabolic function remaining					

Environmental Rating	Environmental Evaluation Considerations/criteria
1 - Very High	Normally Old growth Remnant Tree, multiple hollows important to endangered fauna, replacement would be well in excess of 150 years
2 - High	Mature or semi mature Endemic Tree with or without hollows, plays an important part in local ecology, or Australian Native that has high substitute values as endemic tree replacement would take 50-100 years
3 - Medium	Young or semi mature Endemic tree or Australian native species that has some positive values for local fauna/ecosystems - replacement would take 20 or more years. Large Exotic tree with elevated general values
4 - Low	Normally exotic species, or small, young endemic or native that could be replaced in the short term 5-10 years
5 - Very Low	Listed Weed or nuisance species, or very small value or insignificant to local ecology - could be replaced within 5 years or readily replaced with species of greater value

Significant Tree value considerations/criteria
Very Significant
Defined as Significant Tree by regulatory or other authority or Environmental rating 1 or Heritage Listed or Very High Cultural or heritage Values
Significant
Medium or large tree in good/excellent condition, suited to local environment or imposing within the local landscape with long life expectancy and/or strong amenity values or some cultural or heritage links

Recommended Action for DA	Primary Reasons
Retain Priority	Very Significant tree
Retain	Significant Tree
Retain if possible	Sound tree suited to site
Remove	Positive amenity values
Remove Priority	Strong Environmental value
	Poor Condition
	Unsuitable for location
	Species not suited to Environment
	Condition & Safety
	Replaced in short term
	Allow development
	Exempt species
	Exempt height
	Other

	Picks	
Replacement times	1	Very significant
0-5	2	Significant
5-10	3	Not Significant
10-20	4	
20+	5	Yes
50+		No
100+		
Known Development Impact		
Remove		
Retain - Impacts to Manage		
Retain - Impacts unlikely		
Not determined		

Tree Height and canopy spread is estimated unless otherwise specified.

Tree stem diameter is measured at approximately 1.4m above - or at a point indicative of the tree dimension where abnormal growth occurs at 1.4m above ground. Multi stemmed trees are calculated as per AS 4370

TPZ - Tree Protection Zone - specified area above and below ground and at a given distance from the trunk set aside for the protection of the tree's roots and crown to provide for the viability and stability of a tree to be retained where it is potentially subject to damage by development.

SRZ - Structural Root Zone - the area around the base of a tree required for the tree's stability in the ground - calculated in meters radially from stem centre.

From Australian Standard 4370:2009 Protection of Trees on development sites.

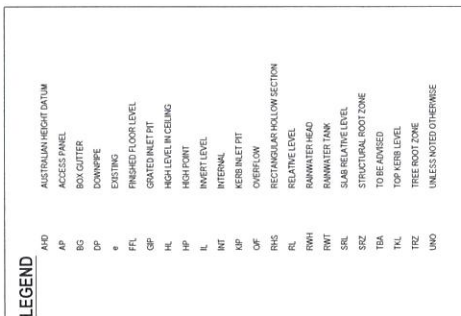
TPZ and SRZ are calculated from AS 4370

Tree canopy area is a calculated area from the diameter of the of the canopy - some actual variation may exist in the calculation if the canopy is not symmetrical.

ITEM 3

**Civil Service Drawings
(JHA Services)**

**DIAL BEFORE
YOU DIG**
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[illegible]

LEGEND

FAIL

↑ OVER SHEET

↓ UNDER SHEET

↑ FLOW DIRECTION

↓ FLOW DIRECTION

STORMWATER PIT (GATE)

STORMWATER PIT (SEAL)

PIPE BOUNDARY

LEVEL TAG

DOWN PIPE

RAINWATER OUTLET

FRENCH GATE

PROPOSED SUNKEN PIPE

PROPOSED RAINWATER PIPE

SEMENTARY FENCE

PROPOSED STOPPLE LOCATION

PROPOSED SITE ACCESS

MESH-GRADE INLET FILTER

DOWNPIPE SPREADER

DOWNPIPE

STEP

STEP DOWN

PIPE SIZE

PIPE DIRECTION

1 (DWS)

2 (DWS)

FOR SECTION VIEW

REFER TO DRAWING

PROPOSED OVERHEAD ELECTRICAL

EXISTING OVERHEAD ELECTRICAL

EXISTING HIGH VOLTAGE

EXISTING ELECTRICAL

EXISTING POTABLE WATER

EXISTING GAS

EXISTING COMMS

EXISTING GAS

EXISTING SEWER

EXISTING STORMWATER

EXISTING TREE TO BE RETAINED

EXISTING TREE TO BE REMOVED

PROPOSED TREE INDICATING LOCATION

PROPOSED STORMWATER LINE

EXISTING STORMWATER LINE

NEW FOOTPATH - SPECIFY BY LANDSCAPE ARCHITECT

BLISTER SLUMPING TO FUTURE DETAIL

NEW ASPHALT INTERNAL CAR PARKING TO COUNCIL

NEW ASPHALT DRIVEWAY TO COUNCIL

NEW GRAVEL PAVEMENT TO COUNCIL SPECIFICATIONS

NEW 300mm WIDE STRIPS

NEW TYPE 3A KERB & GUTTER

NEW TYPE 3B KERB

NEW TYPE 3A KERB

NEW 450 WIDE GUTTER

NEW DRIVEWAY CROSSING AND LANEBACK

NEW DRIVEWAY MANAGEMENT PAVING

NEW DRIVEWAY MANAGEMENT PAVING

HALF ROAD RECONSTRUCTION

PROPOSED WEARWARP

PROPOSED WHEEL STOP

EXISTING STREET LIGHTS

NEW 5 STREET LIGHT POLES

PROPOSED STREET LIGHT

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
	Verified	Description	Date	Rev.	Description	Date	Verified
P1	04.1.21	EGGIE Code REVIEW					M.B.
P2	18.1.21	SA ESSGIE					M.B.
P3	23.1.21	SA ESSGIE					M.B.

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CLIENT	COBAR SHIRE COUNCIL	ARCHITECT	DUNN & HILLAM ARCHITECTS
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CONSULTANT

JHA

Level 25, 101 Market Street
North Sydney
NSW 2060
Australia
Tel: 02 9437 0000
Email: general@jha.com.au
Web: www.jha.com.au

PROJECT	CIVIL SERVICES COVER SHEET	DRAWN	
		CHECKED	
		DATE	
		BY	
		SCALE	
		JOB NO.	2



A. GENERAL

1. ALL MATERIALS AND WORKMANSHIP MUST MEET AS/NZS 3500.3.2.615 STORMWATER DRAINAGE, BOM AND AUTHORIZING LOCAL COUNCIL DEVELOPMENT GUIDELINES, STANDARDS, SPECIFICATIONS, POLICIES, CONSENTS AND REQUIREMENTS AND/OR AS DIRECTED BY THE PRINCIPAL.
2. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS, TECHNICAL SPECIFICATIONS AND OTHER INSTRUCTIONS THAT ISSUED DURING THE COURSE OF THE COMMISSION. ALL DISCREPANCIES ARE TO BE REFERRED TO THE PRINCIPAL FOR CLARIFICATION PRIOR TO COMMENCING WORK. WORKS SHALL NOT PROCEED WITHOUT CLARIFICATION AND INSTRUCTION FROM THE PRINCIPAL.
3. THE CONTRACTOR SHALL NOT ENTER OR WORK ON ADJOINING PROPERTIES WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNERS OR THE RELEVANT AUTHORITIES.
4. THE CONTRACTOR IS TO ENSURE THAT MINIMAL DISTURBANCE IS MADE TO AREAS OUTSIDE OF THE CONSTRUCTION WORKS AREA.
5. ANY SUBSTITUTION OF PRODUCTS OR MATERIALS SHALL BE APPROVED BY THE PRINCIPAL PRIOR TO COMMENCING WORK.
6. ANY CONNECTION TO EXISTING WORKS ARE TO BE MADE GOOD.
7. EXCAVATION WORKS ARE NOT TO IMPACT THE STABILITY OF ANY NEARBY STRUCTURES AND PROPERTIES.
8. SOILS SHOULD BE TESTED FOR ACID SULPHATE SOILS AND/OR CONTAMINATION PRIOR TO EXCAVATION. IF THERE IS A POTENTIAL RISK NOTED IN THE ENVIRONMENTAL IMPACT ASSESSMENT OR CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
9. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE SETTING OUT OF THE WORKS IN ACCORDANCE WITH THE SETOUT DETAILS AND ACQUISITIONS SHOWN ON THE DRAWINGS. ALL SETOUT INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
11. ALL DIMENSIONS AND LEVELS RELEVANT TO SETTING OUT TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. THIS INCLUDES EXISTING SERVICES AND/OR OTHER STRUCTURES THAT MAY AFFECTED BY THIS DESIGN PRIOR TO CONSTRUCTION.
12. ALL SURVEY INFORMATION AND PROPOSED WORKS OTHER THAN THE PROPOSED STORMWATER DRAINAGE HAVE BEEN OBTAINED FROM DRAWINGS BY OTHER CONSULTANTS.
13. REFER TO HYDRAULIC DRAWINGS AND PAVEMENT DRAWINGS FOR DETAILS OF ROOF AND SUBSOIL DRAINAGE SYSTEMS RESPECTIVELY.
14. THE DRAWINGS SHALL NOT BE SCALED UNLESS OTHERWISE INSTRUCTED IN THE NOTES ON THE DRAWINGS. ALL LEVELS, COORDINATES AND CHANGES ARE IN METRES AND DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
15. THE LEVEL DATUM REFERRED TO IN THE DRAWINGS IS THE AUSTRALIAN HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE.

B. QUALITY, SAFETY AND ENVIRONMENT

16. THE CONTRACTOR IS TO INVESTIGATE, IDENTIFY AND ACCURATELY LOCATE ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECTED BY THIS DESIGN AND APPLY FOR DIAL BEFORE YOU DIG BEFORE CONSTRUCTION COMMENCES. ALL INFORMATION ON EXISTING SERVICES IS TO BE KEPT UP TO DATE, AND ON SITE AT ALL TIMES.
17. IT IS THE RESPONSIBILITY OF THE BUILDER TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES.
18. THE CONTRACTOR IS TO CONTACT THE RELEVANT UTILITY AUTHORITIES/ASSET OWNERS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. ANY MODIFICATION OF THE EXCAVATION REQUIRED BY THE CONTRACTOR IS TO BE APPROVED BY THE ASSET OWNER/AUTHORITY.

3. EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH LANDOWNER'S MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION (THE BLUE BOOK).
4. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
5. ALL SUB CONTRACTORS SHALL BE INFORMED OF THEIR RESPONSIBILITIES FOR MAINTAINING AND PROVIDING ON-GOING ADJUSTMENTS TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON-GOING ADJUSTMENTS TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.

D. STORMWATER DRAINAGE

12. ALL STORMWATER DRAINAGE MATERIALS AND PRODUCTS INCLUDING PITS AND PIPES ARE TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS.
13. DEMOLISH, FILL IN AND REMOVE EXISTING PIPE AND PITS AS DIRECTED BY THE SUPERINTENDENT. REDUNDANT DRAINAGE PIPES MUST BE FILLED WITH STABILISED SAND OR GROUT TO PREVENT STRUCTURAL COLLAPSE IN THE FUTURE. REDUNDANT PITS ARE TO BE DEMOLISHED AND REMOVED UNLESS THEY AFFECT THE STRUCTURAL INTEGRITY OF ADJACENT STRUCTURES, IN WHICH CASE THEY MUST BE FILLED WITH STABILISED SAND OR GROUT.
14. NEW PIPE SYSTEMS ARE TO BE FLUSHED OUT BY THE CONTRACTOR ONCE COMPLETE PRIOR TO CONNECTION INTO EXISTING SYSTEMS.
15. PITS ARE TO BE DESIGNED FOR THE STRENGTH CLASS SPECIFIED IN THE PIT SCHEDULE PROVIDED IN THIS DRAWING SET.
16. FOR CHARGED DRAINAGE SYSTEMS, THE UPVC PIPEWORK MUST BE SUITABLE FOR PRESSURE APPLICATIONS.
17. FOR CHARGED DRAINAGE SYSTEMS, ALL UPVC PIPEWORK AND JOINTS, INCLUDING THE FULL HEIGHT OF THE DOWNPIPE, ARE TO HAVE SEALED AND SOLVENT WELDED JOINTS TO ENABLE WATER STORAGE IN PIPE NETWORK. ALL PIPES ARE TO BE FILLED WITH WATER AND PUT UNDER TEST CONDITIONS PRIOR TO HANDOVER.
18. A CLEANING EYE IS TO BE FITTED AT THE LOWEST POINT OF THE CHARGED DRAINAGE SYSTEM AND EXTEND INTO A STORMWATER PIT, TO ALLOW FOR DRAINING AND CLEAR OUT OF SYSTEM.
19. LEAF GUARDS ARE TO BE FITTED OVER ALL EAVES GUTTERS BEING SERVED BY A CHARGED ROOF DRAINAGE SYSTEM.
20. ALL EAVES GUTTERS SHALL HAVE A D/O FRONT LIP U.N.O. HIGH-FRONT EAVES GUTTERS SHALL BE REJECTED.

F. STEEL REINFORCEMENT

1. STEEL REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671. DOWELS SHALL BE ONE-PIECE, STRAIGHT, PLAN STEEL BAR OR PLATE COMPLYING WITH AS/NZS 4671 OR AS/NZS 3679.1. THE BARS SHALL BE DEFORMED BARS COMPLYING WITH AS/NZS 4671.
2. THE NUMBER FOLLOWING THE FABRIC SYMBOL 'F' IS THE REFERENCE NUMBER FOR FABRIC TO AS/NZS 1364. FABRIC SHALL BE LAPPED WITH TWO TRANSVERSE WIRES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS/NZS 4671.
3. LAPS SHALL BE IN ACCORDANCE WITH AS/NZS 3690.
4. SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A REBENDING TOOL. THE BARS SHALL BE BENT AGAINST A FLAT SURFACE OR A RAY WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE PRESCRIBED IN AS/NZS 3690.
5. REINFORCEMENT IS REPRESENTED DISCRIMINATELY AND NOT NECESSARILY IN TRUE PROJECTION.
6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL FROM THE PRINCIPAL.
7. UNLESS OTHERWISE NOTED, MINIMUM CLEAR DISTANCE BETWEEN BARS OTHER THAN LAPPED BARS SHALL BE THE GREATEST OF:
 - i) 15 X THE DIAMETER OF THE LARGER BAR
 - ii) 15 X THE MAXIMUM NORMAL AGGREGATE SIZE
 - iii) 40
8. JOINTS IN STRUCTURES OR MEMBERS TO BE IN ACCORDANCE WITH AS/NZS 3690.

E. CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 3600.
2. FORMWORK SHALL COMPLY WITH AS/NZS 3610.
3. PRELIMINARY CONCRETE SHALL BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS/NZS 1379.
4. PORTLAND AND BLENDED CEMENT SHALL COMPLY WITH AS/NZS 3972.
5. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED BY THE PRINCIPAL. ADMIXTURES SHALL COMPLY WITH AS/NZS 1478.1.
6. AGGREGATE SHALL COMPLY WITH AS/NZS 2758.1.
7. WATER SHALL BE CLEAN FRESH WATER IN ACCORDANCE WITH AS/NZS 1379.
8. PROJECT CONTROL. TESTING SHALL BE CARRIED OUT ON ALL CLASSES OF CONCRETE IN ACCORDANCE WITH AS/NZS 1379.
9. CONCRETE EXPOSURE CLASSIFICATION SHALL BE SPECIFIED IN ACCORDANCE WITH THE GEOTECHNICAL

C. EROSION AND SEDIMENT CONTROL

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE NSW ENVIRONMENT PROTECTION AGENCY (EPA), THE OFFICE OF ENVIRONMENT & HERITAGE, AND WATER NSW.
2. THE CONTRACTOR IS TO IMPLEMENT ALL MEASURES OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION COMMENCING AND MAINTAIN THESE MEASURES THROUGHOUT CONSTRUCTION.

C. EROSION AND SEDIMENT CONTROL

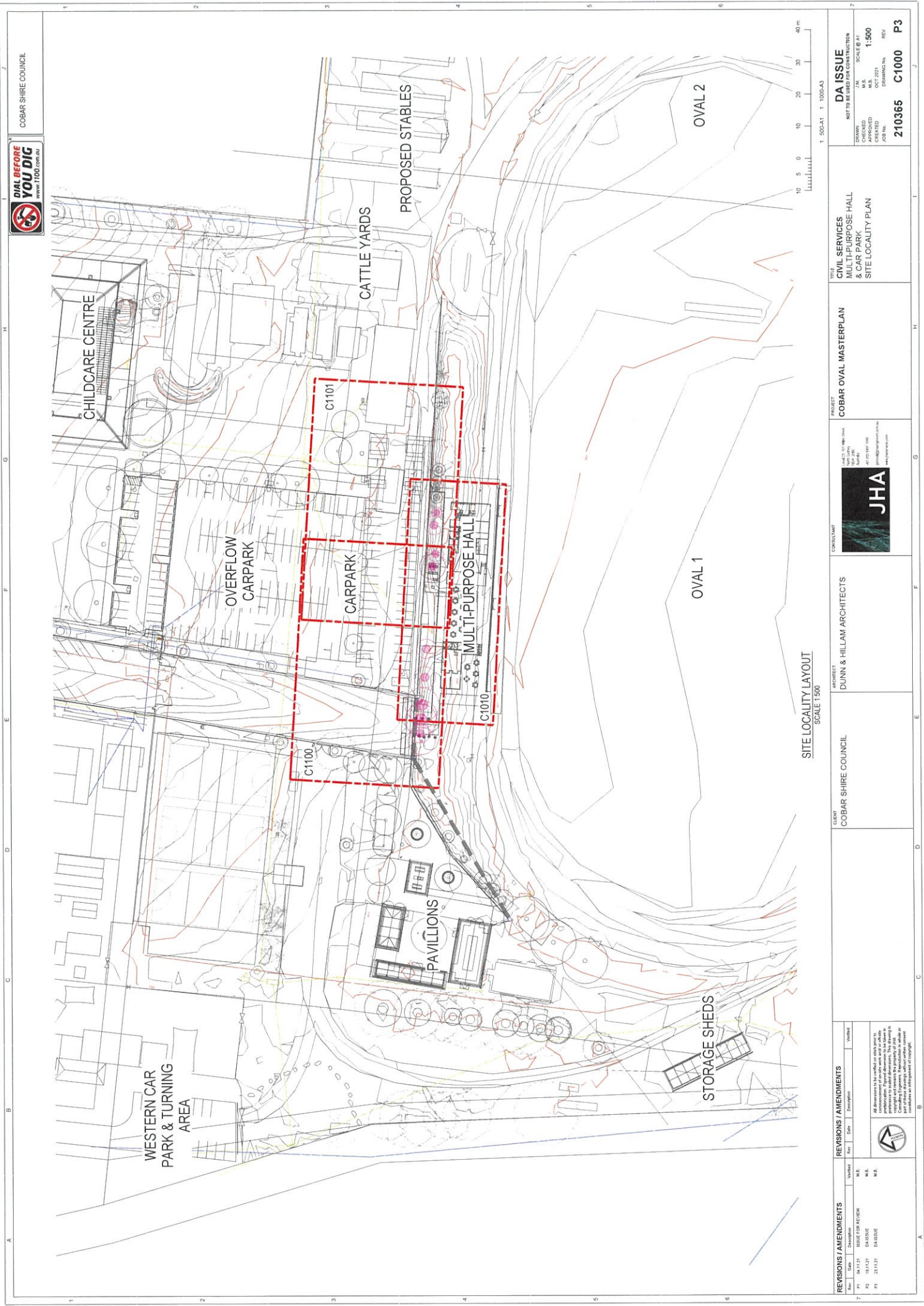
1. ALL CONCRETE WORKS ARE TO BE IN ACCORDANCE WITH AS 3600 AND ALL STEEL REINFORCEMENT AND STEEL MESH ARE TO BE IN ACCORDANCE WITH AS 4671. ALL BURIED FLEXIBLE PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 2566. ALL BURIED PVC PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 2032. AS/NZS 1254 AND AS/NZS 1477. ALL CONCRETE PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 3772, AS/NZS 4139 AND AS/NZS 408.
2. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND TO THE AUTHORIZING COUNCIL'S REQUIREMENTS.
3. NO PIT GRATE COMPONENT PART SHALL WEIGH MORE THAN 20KG. ALL GRATES SHALL BE HINGED FULLY OPENING GRATES WITH LOCKDOWN DEVICE.
4. ALL STORMWATER PITS AND DETENTION TANKS DEEPER THAN 1.2m IN DEPTH TO BE FITTED WITH RUNG LADDERS IN ACCORDANCE WITH AS/NZS 4198 AND AS/NZS 4557. STEEL LADDERS SHALL BE HOT DIP ZINC GALVANISED AS SPECIFIED IN AS/NZS 4680.
5. ALL INLET/OUTLET PIPES SHALL BE CUT FLUSH WITH PIT WALLS.
6. PRECAST CONCRETE PIPES AND FITTINGS TO BE DOUBLE V-RING JOINTED.
7. EMBEDMENT SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS/NZS 2568 FOR FLEXIBLE PIPES, AS/NZS 2037 FOR PVC PIPES, AND AS/NZS 3772 FOR CONCRETE PIPES.
8. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER DRAINAGE, THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO PREVENT WORKER INJURIES ASSOCIATED WITH PITS AND TRENCHES.
9. THE CONTRACTOR SHALL ALLOW FOR DESHOWERING AS REQUIRED DURING CONSTRUCTION.

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IMPORTANT

FOR THIS DOCUMENT TO BE VALID, THE FOLLOWING CONDITIONS MUST BE MET:
1. THE CERTIFYING AUTHORITY MUST BE A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT.
2. THE CERTIFYING AUTHORITY MUST BE A MEMBER OF THE ENGINEERING COUNCIL OF AUSTRALIA (ECA) OR THE ARCHITECTS BOARD OF AUSTRALIA (ABA).
3. THE CERTIFYING AUTHORITY MUST BE A MEMBER OF THE PROFESSIONAL ENGINEERS' BOARD OF AUSTRALIA (PEBA) OR THE ARCHITECTS BOARD OF AUSTRALIA (ABA).
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COBAR SHIRE COUNCIL



REVISIONS / AMENDMENTS		REVISIONS / AMENDMENTS	
No.	Date	No.	Date
1	18.12.21	1	18.12.21
2	19.12.21	2	19.12.21
3	23.12.21	3	23.12.21



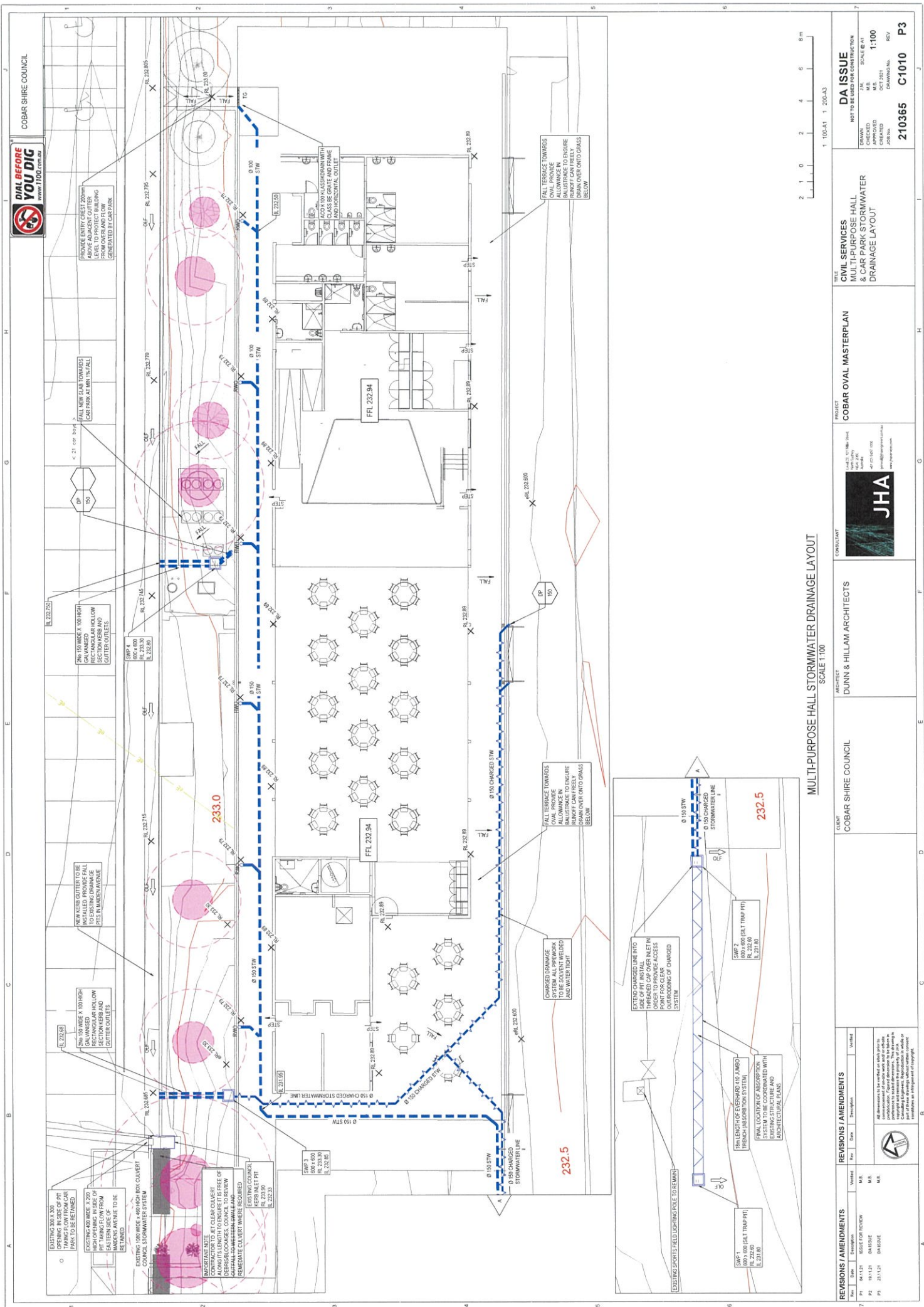
All dimensions to be verified on site prior to construction. If any discrepancy is found, the contractor shall be responsible for rectifying the same. The client shall be notified of any such discrepancy as soon as it is identified.

CLIENT	COBAR SHIRE COUNCIL
ARCHITECT	DUNN & HILLAM ARCHITECTS
CONSULTANT	JHA
PROJECT	COBAR OVAL MASTERPLAN
SITE	MULTI-PURPOSE HALL & CAR PARK



DA ISSUE	NOT TO BE USED FOR CONSTRUCTION
CHECKED	SCALE @ A1
DATE	1:500
CREATED	OCT 2021
DRAWING No.	210365
REV	C1000
P3	

SITE LOCALITY LAYOUT
SCALE 1:500



MULTI-PURPOSE HALL STORMWATER DRAINAGE LAYOUT
SCALE 1:100

REVISIONS / AMENDMENTS		REVISIONS / AMENDMENTS	
No.	Date	Description	Revised
1	20/11/21	ISSUED FOR REVIEW	M.B.
2	18/11/21	DA ISSUE	M.B.
3	23/11/21	DA ISSUE	M.B.



All dimensions to be verified on site prior to construction. 'As shown' dimensions are to be used as a guide only. The contractor is responsible for ensuring that the work is carried out in accordance with the approved plans and specifications. The project owner is not responsible for any errors or omissions in the plans or specifications.

CLIENT
COBAR SHIRE COUNCIL

ARCHITECT
DUNN & HILLAM ARCHITECTS

CONSULTANT
JHA

PROJECT
COBAR OVAL MASTERPLAN

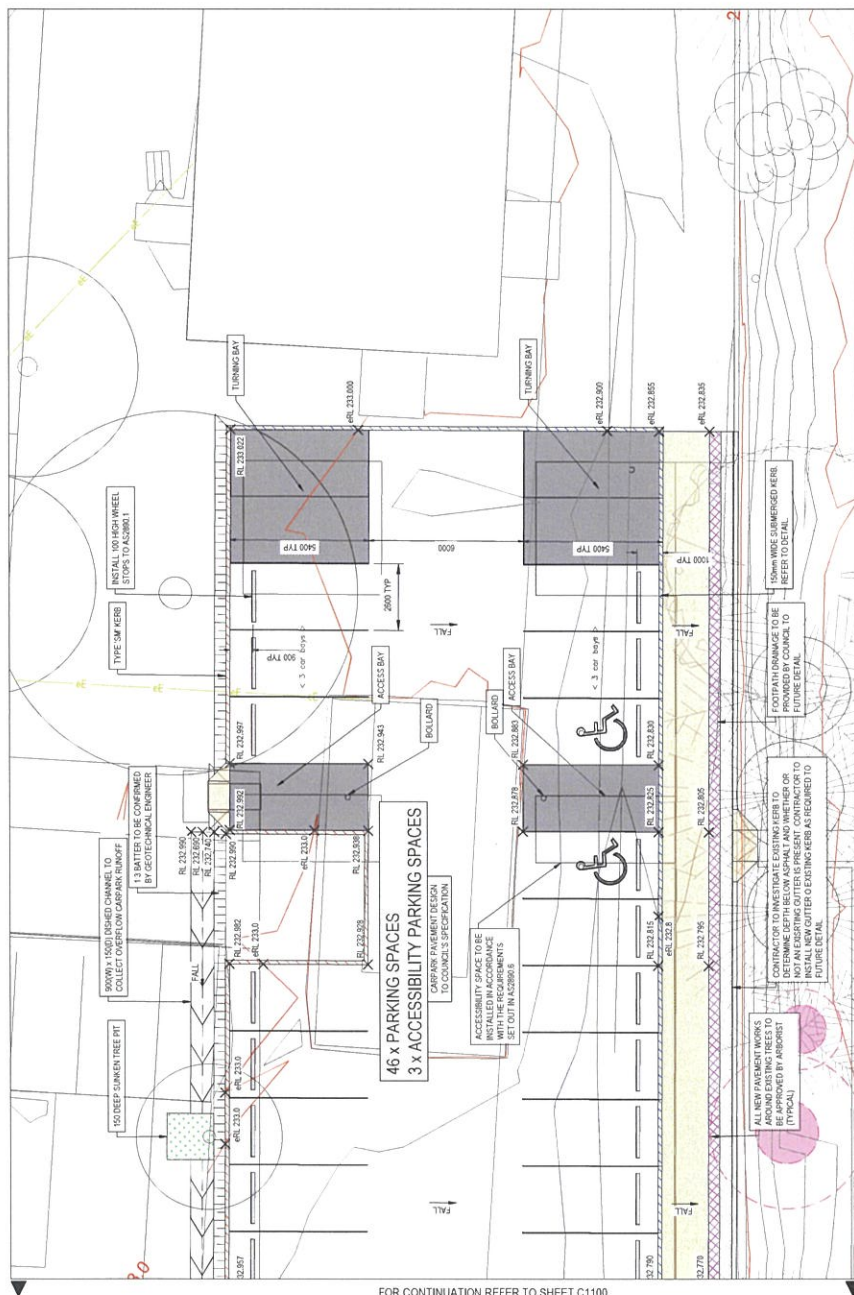
TYPE
CIVIL SERVICES
MULTI-PURPOSE HALL
& CAR PARK STORMWATER
DRAINAGE LAYOUT

DA ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	J.H.A.	SCALE @ A1
CHECKED	M.B.	1:100
DESIGNED	M.B.	1:100
CREATED	M.B.	1:100
JOB NO.	210365	REV
DRAWING NO.	C1010	P3

LEGEND

- | | | |
|-----|---|--|
| OH | X | REMOVED OVERHEAD ELECTRICAL |
| OWH | | EXISTING OVERHEAD ELECTRICAL |
| OHV | | EXISTING HIGH VOLTAGE |
| OE | | EXISTING ELECTRICAL |
| OW | | EXISTING POTABLE WATER |
| OC | | EXISTING COMMS |
| OG | | EXISTING GAS |
| OS | | EXISTING SEWER |
| OSW | | EXISTING STORMWATER |
| | ☹ | EXISTING TREE TO BE RETAINED |
| | ☹ | EXISTING TREE TO BE REMOVED |
| | ☹ | PROPOSED TREE (INDICATIVE LOCATION) |
| | — | PROPOSED STORMWATER LINE |
| | — | EXISTING STORMWATER LINE |
| | — | NEW FOOTPATH |
| | — | NEW FOOTPATH - SPEC BY LANDSCAPE ARCHITECT |
| | — | BULWER SUBMITTING TO FUTURE DETAIL |
| | — | NEW ASPHALT INTERNAL CAR PARKING TO COUNCIL |
| | — | NEW ASPHALT PAVEMENT TO COUNCIL SPECIFICATIONS |
| | | RE-CLAD NATURAL STRIPS |
| | | NEW TYPE 'A' KERB & GUTTER |
| | | NEW TYPE 'D' KERB |
| | | NEW TYPE 'SM' KERB |
| | | NEW DRIVEWAY CROSSING AND LAYBACK |
| | | NEW DRIVEWAY MANAGEMENT PAVING |
| | | HALE ROAD RECONSTRUCTION |
| | | PROPOSED UNPAVING |
| | | PROPOSED WHEELS UP |
| | | EXISTING STREETLIGHTS |
| | | NEW STREETLIGHT POLES |
| | | PROPOSED STREET SIGN |



FOR CONTINUATION REFER TO SHEET C1100

CARPARK CIVIL LAYOUT
SCALE 1:100

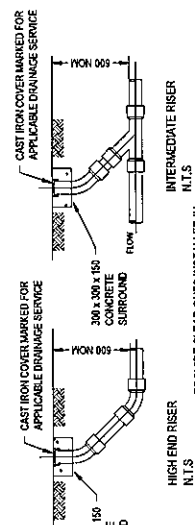
REVISIONS / AMENDMENTS			REVISIONS / AMENDMENTS		
No.	Date	Description	Rev.	Date	Verified
P1	04-11-21	REQUEST FOR REVIEW	M.B.		
P2	10-11-21	QA ISSUE	M.B.		
P3	21-11-21	QA ISSUE	M.B.		
			 All dimensions to be verified on site prior to commencement of on-site work and to obtain measurements under observation. This drawing is intended as a guide only. The Contractor shall verify all dimensions before construction begins. Reproduction or resale without written permission from the University of North Carolina at Charlotte is prohibited.		

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JUNN & HILLAM ARCHITECTS

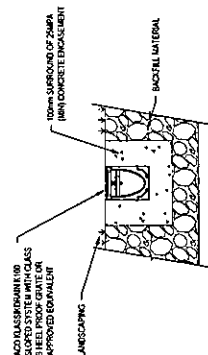
PROJECT
COBAR OVAL MASTERPLAN

TITLE
CIVIL SERVICES
CARPARK CIVIL LAYOUT

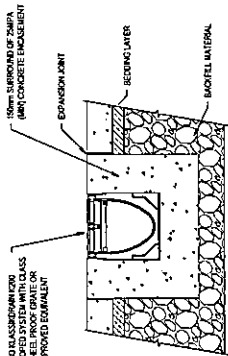
DRAWN BY _____
 CHECKED _____
 APPROVED _____
 CREATED _____
 JOB NO. _____



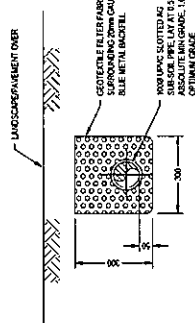
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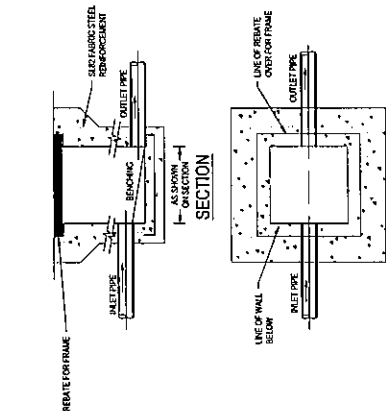
SECTION VIEW
TRENCH GRATE (100mm WIDE) CLASS B
N.T.S



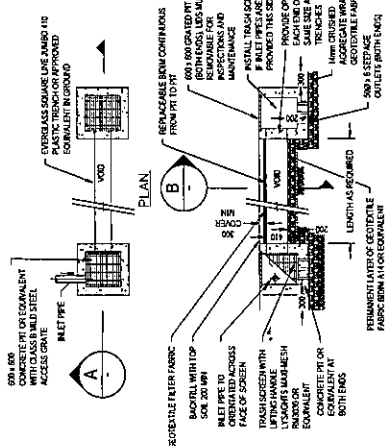
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N.T.S



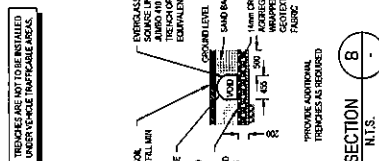
TYPICAL SUB-SOIL DRAINAGE TRENCH



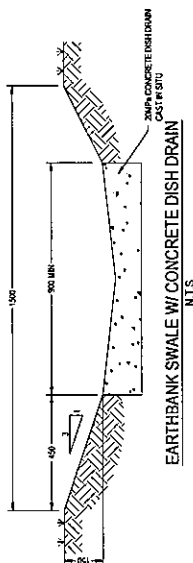
PLAN WITHOUT GRATE
TYPICAL GRATED INLET PIT
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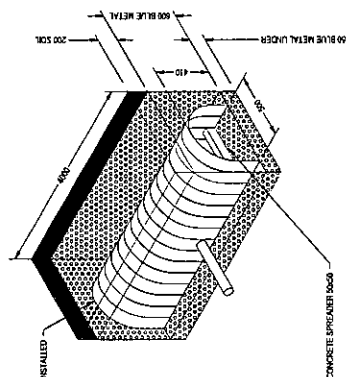
DETAIL SHOWN IS FOR LANDSCAPED AREA ONLY
ABSORPTION TRENCH TYPICAL AREA ONLY
NTS



SECTION
N.T.S.
8



EARTHBANK SWALE W/ CONCRETE DISH DRAIN
NTS



ABSORPTION TRENCH
NTS

REVISIONS / AMENDMENTS					REVISIONS / AMENDMENTS				
	No.	Date	Description	Verified		No.	Date	Description	Verified
P1	06-11-27	BIDD FOR REVIEW	M.R.			All drawings to be verified on state plan's incorporation of public work and of all other amendments to include drawings. They all go in the same order as the original drawings. If a drawing is changed, the original drawing must be marked with a red pencil. Reproduction is where a part of the drawing already appears on another drawing.			
P2	11-11-21	CALCULATED	M.R.						
P3	2019-21	DRAWING	M.R.						


 All drawings to be verified on which there is
 construction of any part must be of the
 professional. Signed drawings to be
 preference to second drawings. This is valid
 copyright and remains the property of ASCE.
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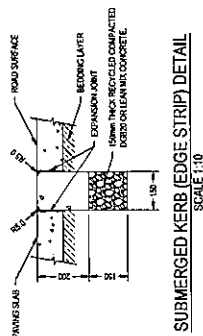
CLIENT	ARCHITECT
COBARR SHIRE COUNCIL	DUNN & HILLAM ARCHITECTS


 4112 405 010
 Austin
 787 242 242
 Fax 787 242 242
 E-mail info@hill.com

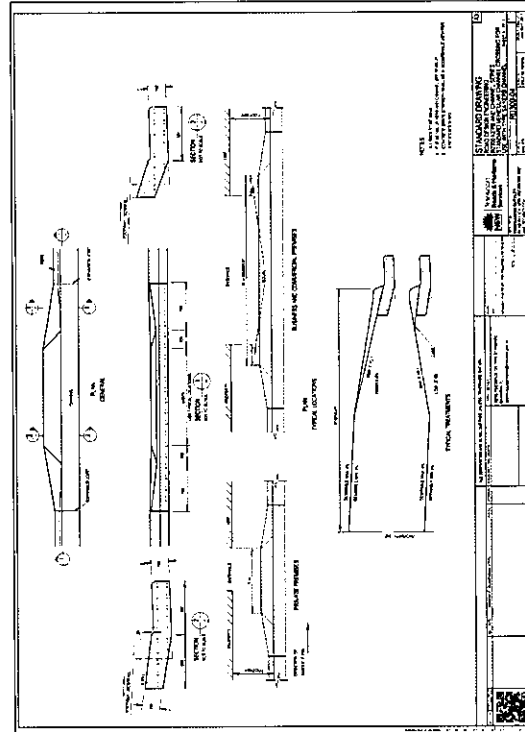
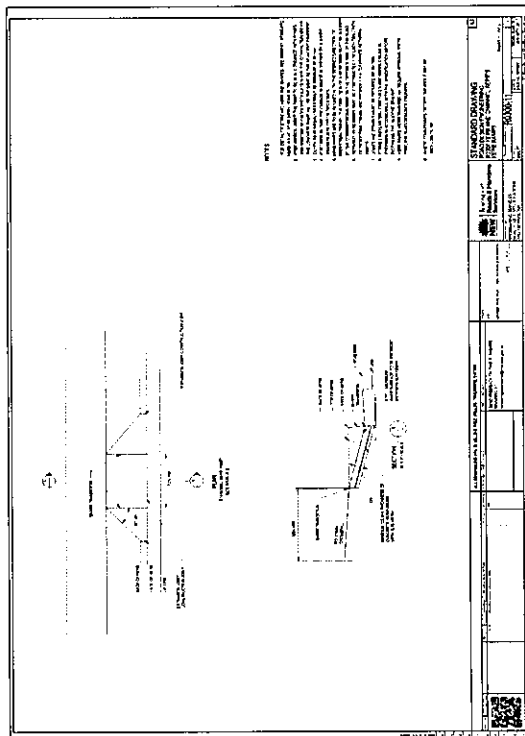
PROJECT	TITLE
COBAR OVAL MASTERPLAN	CIVIL SERVICES CAR PARK DETAILS LAYOUT SHEET 1 OF 2

DA ISSUE
NOT TO BE USED FOR CONSTRUCTION

RAWN	J.A.	SCALE @ A1
CHECKED	M.E.	AS SHOWN
APPROVED	M.E.	OCT 2011
DATE FOR NLS	DRAWING NO.	REV
210365	C1200	P3



SUBMERGED KERB (EDGE STRIP) DETAIL



PROJECT INFORMATION PROJECT NAME: _____ PROJECT LOCATION: _____ PROJECT DESCRIPTION: _____ PROJECT NUMBER: _____ PROJECT DATE: _____ PROJECT STATUS: _____ PROJECT TYPE: _____ PROJECT CATEGORY: _____ PROJECT SUB-CATEGORY: _____ PROJECT SUB-TYPE: _____ PROJECT SUB	
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REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
No.	Date	Description	Verified	No.	Date	Description	Verified
P1	04.11.21	REUSE FOR REVIEW	N/A		All Amendments to be verified by the Project Manager, before publication. Signed amendments are to be submitted to the Project Manager and remain in his/her custody and control to be approved and submitted to the Project Manager for publication at appropriate locations at appropriate times.		
P2	16.12.21	DATA REUSE	N/A				
P3	21.11.21	DATA REUSE	N/A				

	Starting	
		...on which I had to ...and as a result ...to be taken in ...They do not ...of the ...which is ...copyright.



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production. Expected statement to be taken in
production to indicate statement. They drawing to
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ARCHITECT
DUNN & HILLAM ARCHITECTS

CONSULTANT

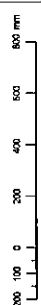
JHA

CONCRETE PAVING
 1000 S. 17th St. • Suite 100 • Portland, ME 04106
 Phone: 503/744-1234
 Fax: 503/744-1235
 E-mail: info@jha.com
 Website: www.jha.com

PROJECT	COBAR OVAL MASTERPLAN
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TITLE
CIVIL SERVICES
CAR PARK DETAILS LAYOUT
SHEET 2 OF 2

DA ISSUE	NOT TO BE USED FOR CONSTRUCTION	
210365	C1201	P3
DRAWN CHECKED APPROVED CREATED JOB NO.	JAL M.A. OCT 2011 DCA0990 JAL	SCALE AS SHOWN REV





SITE LOCALITY LAYOUT
SCALE 1:500

[illegible]

P1	23.11.21	GA 425/E	M.B.	All dimensions to be verified on site prior to prefabrication. Figured dimension to be taken in preference to scaled dimensions. This drawing is copyright and remains the property of Jisk Consulting Engineers. Reproduction in whole or in part without the prior written consent constitutes an infringement of copyright.
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CLIENT	ARCHITECT
COBAR SHIRE COUNCIL	DUNN & HILLAM ARCHITECTS

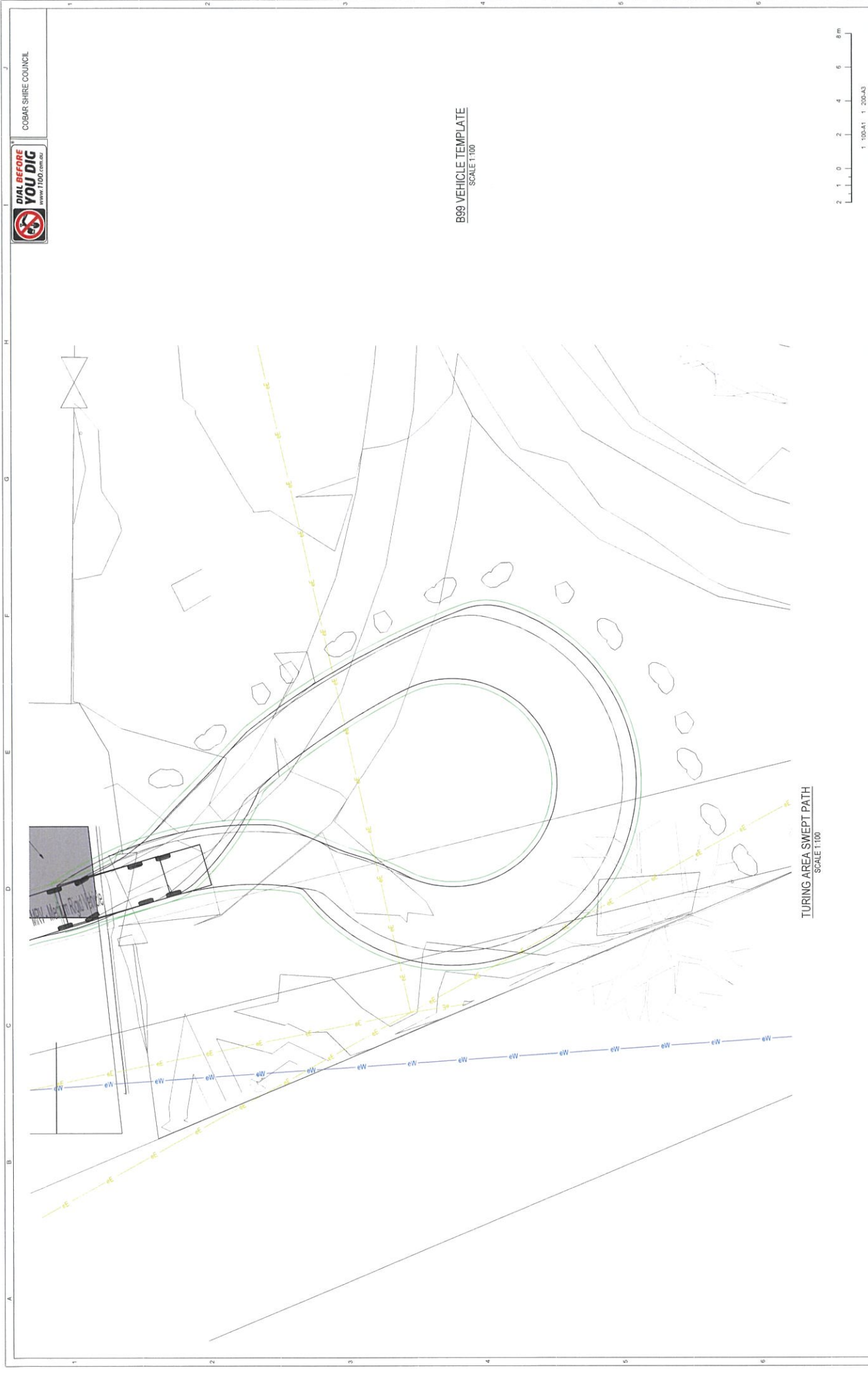
CONSULTANT

JHA

Level 21, 100 Market Street
South Sydney
NSW 2000
Australia
40 123 4567 1300
jha@jha.com.au
www.jha.com.au

TITLE
CIVIL SERVICES
WESTERN CARPARK & TURNING
AREA SITE LOCALITY PLAN

DRAWN	J.M.	SCALE	
CHECKED	M.B.		
APPROVED	M.B.		
CREATED	OCT 2021	DRAWING NO.	C4000
JOB NO.			
210365			



COBAR SHIRE COUNCIL



B99 VEHICLE TEMPLATE
SCALE 1:100

TURING AREA SWEEP PATH
SCALE 1:100



REVISIONS / AMENDMENTS			REVISIONS / AMENDMENTS		
Rev	Date	Description	Verified	Date	Description
P1	04.11.21	REQUEST FOR REVIEW	M.B.		
P2	15.11.21	DA ISSUE	M.B.		
P3	21.11.21	DA ISSUE	M.B.		

All dimensions to be verified on site prior to construction. Signed dimensions to be taken as correct. Any discrepancies between the plan and the site must be reported to the project manager immediately. Copyright and revision to the plan is the property of the project manager. No part of this drawing shall be copied or used for any other purpose without the written consent of the project manager.

CLIENT	COBAR SHIRE COUNCIL
ARCHITECT	DUNN & HILLAM ARCHITECTS
CONSULTANT	JHA

PROJECT	COBAR OVAL MASTERPLAN
DATE	21.11.21
SCALE	1:100
DRAWN	M.B.
CHECKED	M.B.
DATE	21.11.21
DATE	21.11.21
DATE	21.11.21
DATE	21.11.21

DA ISSUE	NOT TO BE USED FOR CONSTRUCTION
SCALE	1:100
DATE	21.11.21
DATE	21.11.21
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SITE LOCALITY LAYOUT
SCALE 1:500

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	04.11.21	ISSUE FOR REVIEW	M.B.				
P2	18.11.21	DA DISCUSS	M.B.				
P3	23.11.21	DA DISCUSS	M.B.				

All dimensions to be verified on the day of construction. If the dimensions are not correct, the contractor shall be responsible for the rework. The contractor shall be responsible for the rework. The contractor shall be responsible for the rework.

CLIENT	ARCHITECT
COBAR SHIRE COUNCIL	DUNN & HILLAM ARCHITECTS

CONSULTANT

JHA

Level 25, 101 Miller Street
North Sydney
NSW 1585
Australia

+61 (0) 2 9457 3300

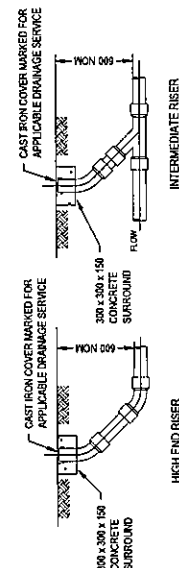
general@jhaengineering.com.au

www.jhaengineering.com.au

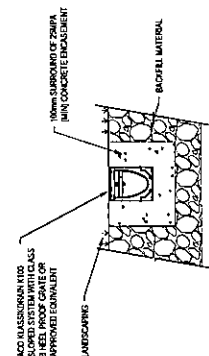
PROJECT	COBAR OVAL MASTERPLAN
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TITLE	DATE	BY	REMARKS
CIVIL SERVICES			
REFURBISHED PAVILLIONS			
SITE LOCALITY PLAN			

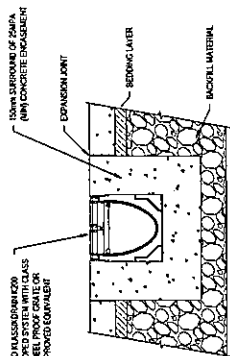
DRAWN CHECKED APPROVED CREDITED JOB No.	J.M. M.B. OCT 2021	SCALE @ A1 1:500	DRAWING No. REV 210365 C5000 P3
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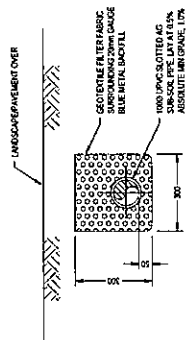
N.T.S. PROVIDE CLEAR CUTS INSTALLED IN ACCORDANCE WITH A.S. 3500 AT LOCATIONS WHERE NOTED CO ON PLAN



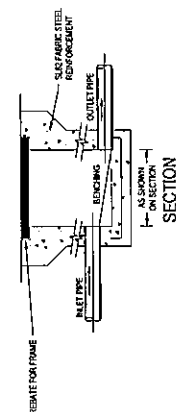
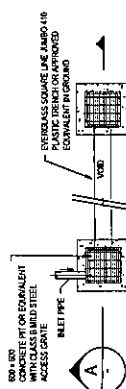
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TRENCH GRATE (100mm WIDE) CLASS B
N.T.S.



SECTION VIEW
TRENCH GRATE (200mm WIDE) CLASS D
N.T.S.

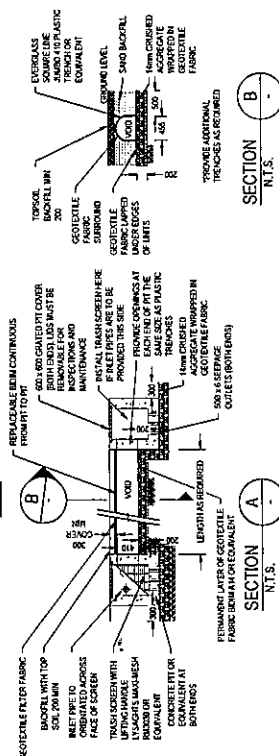


SECTION VIEW
TYPICAL SUB-SOIL DRAINAGE TRENCH
N.T.S.

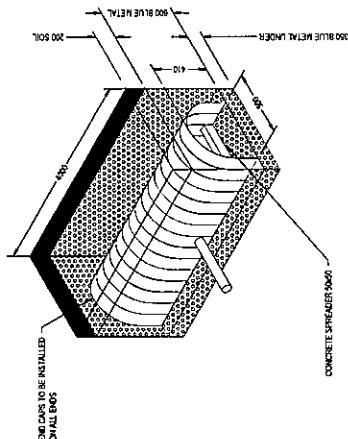


PLAN WITHOUT GRATE

TYPICAL GRATED INLET PIT



DETAIL SHOWN IS FOR LANDSCAPED AREA ONLY
ABSORPTION TRENCH TYPICAL AREA ONLY
N.T.S.



ABSORPTION TRENCH
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COBAR	COBAR SHIRE COUNCIL	ARCHITECT DUNN & HILLAM ARCHITECTS
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CONSULTANT

JHA

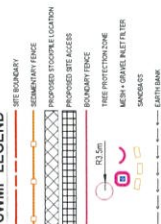
125 West 57th Street
New York, NY 10019
USA
New York
401.725.5400 FAX
jha@jhaconsulting.com
www.jha-consult.com

PROJECT	TOUR	CIVIL SERVICES REFURBISHED PAVILIONS DETAILS LAYOUT
COBAR OVAL MASTERPLAN		

DA ISSUE NOT TO BE USED FOR CONSTRUCTION	210365 C5200 P3
DRAWN CHECKED APPROVED CREATED JOB NO.	J/A M.R. M.R. OCT 2011 DRAWING NO. REV



SWAMP | LEGEND



EROSION AND SEDIMENT CONTROL PLAN

- MEASURES TO BE TAKEN TO SATISFY THE REQUIREMENTS OF THE FEDERAL REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS (UNLESS NOTED OTHERWISE):
1. THE LATEST EDITION OF MANAGING RAIN FROM STORMWATER: SALES AND CONSTRUCTION
 2. ALL CATCH BASINS SHALL BE DESIGNED TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT IF AVAILABLE, AND THE STORMWATER ENGINEERING REPORT TO COMPLEMENT OF CONSTRUCTION WORKS.
 3. THE STORMWATER ENGINEERING REPORT MUST PROVIDE FOR CONSTRUCTION OF STORMWATER TREATMENT AS WELL AS EXISTING STORMWATER SYSTEM DOWNGRADES OF DISTURBED TOP SOIL. SOIL MUST BE STRIPPED AND STOCKPILED FOR USE IN LANDSCAPING.
 4. ALL STOCKPILES TO BE CLEAR FROM BUILDINGS, GUTTERS AND CURBS.
 5. 20 WORKING DAYS OF THE COMPLETION OF WORKS
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EROSION AND SEDIMENT CONTROL PLAN

[illegible]

CLIENT	COBAR SHIRE COUNCIL	ARCHITECT	DUNN & HILLAM ARCHITECTS	CONSULTANT	 +61 (0) 8 9398 1800 100/101 Sturt Street Adelaide SA 5000 Australia 40 FID 401 000 general@jha.com.au www.jha.com.au	PROJECT	COBAR OVAL MASTERPLAN	TITLE	CIVIL SERVICES REFURBISHED PAVILIONS EROSION & SEDIMENT CONTROL PLAN	<table><tr><td colspan="2">DA ISSUE</td></tr><tr><td colspan="2">NOT TO BE USED FOR CONSTRUCTION</td></tr><tr><td>DRAWN</td><td>SCALE 1:1</td></tr><tr><td>CHECKED</td><td>DATE</td></tr><tr><td>APPROVED</td><td>DATE</td></tr><tr><td>CREATED</td><td>DATE</td></tr><tr><td>JOB No.</td><td>REV</td></tr><tr><td>210365</td><td>C5400</td></tr><tr><td>P3</td><td></td></tr></table>	DA ISSUE		NOT TO BE USED FOR CONSTRUCTION		DRAWN	SCALE 1:1	CHECKED	DATE	APPROVED	DATE	CREATED	DATE	JOB No.	REV	210365	C5400	P3	
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