Civil State Significant Development Application (SSDA) Report

NEXTDC S4 Data Centre Horsley Park

Prepared for NEXTDC / 17 June 2024

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Rev	Date	Prepared By	Approved By	Remarks
Draft	06.03.2024	CG	GC	DRAFT
0	13.03.2024	CG	GC	SSDA
1	29.04.2024	CG	GC	SSDA
2	05.06.2024	CG	GC	SSDA
3	17.06.2024	CG	GC	Minor amendments

1.0 Executive Summary

This civil report has been prepared by Taylor Thomson Whitting Pty Ltd (TTW) on behalf of NEXTDC Limited to accompany a detailed State Significant Development Application (SSDA) for the S4 data centre development at 16 Johnston Crescent, Horsley Park. The site is legally described as Lot 305 in Deposited Plan 1275011.

This report has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued for the project (SSD-63741210). This report concludes that the proposed data centre development is suitable and warrants approval subject to the implementation of the following mitigation measures.

- Five (5) on-site stormwater detention tanks to reduce the discharge from the site to below the permissible site discharge as per Fairfield Council's 327-335 Burley Road, Horsley Park Development Control Plan 2016.
- A site wide stormwater pit and pipe network to account for stormwater conveyance for the stage 1 and the ultimate stage of the proposed development.
- Water quality treatment measures including proprietary products.
- An erosion and sediment control plan to manage stormwater quality and quantity on site during the construction phase of the development.

Following the implementation of the above mitigation measures, the remaining impacts are appropriate.

2.0 Introduction

This report has been prepared to accompany a detailed SSDA for the proposed S4 data centre development at 16 Johnston Crescent, Horsley Park (SSD-63741210).

The application seeks consent for construction and operation of a data centre development and includes site preparation works, bulk earthworks and infrastructure, and construction of the buildings, ancillary facilities, and associated site works.

Specifically, the Project comprises the redevelopment of the site as summarised below:

- Site preparation works including bulk earthworks.
- Staged construction and operation of five data centre buildings comprising a total gross floor area (GFA) of 63,654 m^2 including 52,916 m^2 of technical data hall floor space and 10,738 m^2 of ancillary office and innovation floor space, including 'front of house' meeting and function spaces, and a café.
  - Stage 1 = Buildings A to C and Substation
  - Stage 2 = Building D
  - Stage 3 = Building E
- Ancillary development including on-site parking for 200 cars, business identification signage (pylon and elevation signage), civil and stormwater works.
- Delivery of 232 megawatts of power, including a 330kV substation and a 33kV switching station, plus above ground diesel storage tanks and above ground water tanks for industrial water and fire water.

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 27 October 2023 issued for the SSDA (SSD-63741210). Specifically, this report has been prepared to respond to the SEARS requirement issued below (Table 1).

Table 1: SEARs Compliance

Ref No	SEARs Requirement	Section of Report where response is provided
14. Water Management	Provide an Integrated Water Management Plan for the development that: ▪ Is prepared in consultation with the local council and any other drainage or water authority. ▪ Outlines the water-related servicing infrastructure required by the development (informed by the anticipated annual and ultimate increase in servicing demand) and evaluates opportunities to reduce water demand (such as recycled water provision). ▪ Details the proposed drainage design (stormwater and wastewater) for the site including any on-site detention facilities, water quality management measures and nominated discharge points, on-site sewage management, and measures to treat, reuse or dispose of water. ▪ Demonstrates compliance with the local council or other drainage or water authority requirem4nts and avoids adverse downstream impacts.	Section 6.0
	Where water and drainage infrastructure works are required that would be handed over to the local council, or other drainage or water authority, provide full hydraulic details and detailed plans and specification of proposed works that have been prepared in consultation with, and comply with the relevant standards of, the local council or other drainage or water authority.	Section 6.0

3.0 The Site

The site is located at 16 Johnston Crescent, Horsley Park within the Fairfield Local Government Area (LGA). The site is legally described as Lot 305 in Deposited Plan 1275011.

An aerial photograph of the site is provided at Figure 1. The site comprises vacant land which has been cleared of vegetation and does not contain any existing built form structures. Bulk earthworks approved under DA-893-201 are currently underway on the site.

The site will be well serviced by infrastructure. The signalised intersection of Lenore Drive and Old Wallgrove Road at Eastern Creek is approximately 2 kilometres to the north, providing access to Wallgrove Road and the Westlink M7 Motorway to the east and Erskine Park Road and Mamre Road to the west. Each of these roads provides access to the M4 Motorway to the north and M5 Motorway to the south. A utilities and site services report will accompany the EIS.

The site is located approximately 35 kilometres west of the Sydney Central Business District (CBD), 17 kilometres west of the Parramatta CBD and 10 kilometres north-east of the future Western Sydney International (WSI) airport.

The site is within a developing employment precinct, including the ESR Horsley Logistics Park, Oakdale Central, Oakdale South and Horsley Park Employment Precinct. It is also close to other established and emerging employment-generating precincts, including Eastern Creek to the north, Huntingwood to the north-east, Wetherill Park and Mamre Road West to the north-west and Wetherill Park to the east.

Figure 1: Site Aerial Photograph (Source: Nearmap, 2023)

4.0 Development Description

4.1 High Level Description

The key features of the Proposal are summarised as follows:

- Site preparation works including bulk earthworks.
- Staged construction and operation of five data centre buildings comprising a total gross floor area (**GFA**) of 63,654m^2 including 52,916m^2 of technical data hall floor space and 10,738m^2 of ancillary office and innovation floor space, including 'front of house' meeting and function spaces, and a café.
- Associated and ancillary on-site facilities on-site parking for 200 cars, business identification signage (pylon and elevation signage), civil and stormwater works and 9,900m^2 of deep soil landscaping.
- Delivery of 232 megawatts of power, including a 330kV substation and 33kV switching stations, plus above ground diesel storage tanks and above ground water tanks for industrial water and fire water.

The Project will be delivered in three construction stages as follows:

- Stage 1 = Buildings A, B, C, and substation
- Stage 2 = Building D
- Stage 3 = Building E

4.2 Detailed Description

Table 2 Project Details

Descriptor	Project Details
Project Area	The site has a total area of 8.206 hectares. The entire site will be disturbed by the Project.
Use and Activities	Data centre with ancillary office and innovation floor space and café
Project Summary	▪ Site preparation works including bulk earthworks. ▪ Staged construction and operation of five data centre buildings comprising a total gross floor area (**GFA**) of 63,654m^2 including 52,916m^2 of technical data hall floor space and 10,738m^2 of ancillary office and innovation floor space, including 'front of house' meeting and function spaces, and a café. ▪ Ancillary development including on-site parking for 200 cars, business identification signage (pylon and elevation signage), civil and stormwater works. ▪ Delivery of 232 megawatts of power, including a 330kV substation and 33kV switching stations, plus above ground diesel storage tanks and above ground water tanks for industrial water and fire water.
Gross Floor Area (GFA)	Total GFA of 63,654m², broken down as follows: ▪ Data halls/technical: 52,916m². ▪ Mission critical (**MCX**) office, innovation and admin floor space: 10,738m².

Descriptor	Project Details
	▪ Total number of data houses: 34 data houses
Maximum Height	▪ Building A – 32 metres over three storeys ▪ Buildings B, C, D and E – 39 metres over four storeys
Floor Space Ratio	0.78:1
Deep Soil Area	9,900m² (12.1% of site area)
Car Parking	200 car spaces including 6 DDA spaces and 10 EV spaces
Motorbike Parking	5 spaces
Bicycle Parking	24 spaces
Utilities	Provision of required utilities: ▪ Building A Utilities including: - Above ground diesel storage tanks (10 x 25kL each) - Above ground water tanks for industrial water (4 x 170kL each) ▪ Building B Utilities including: - Above ground diesel storage tanks (10 x 65kL each) - Above ground water tanks for industrial water (4 x 580kL each) ▪ Building C Utilities including: - Above ground diesel storage tanks (10 x 65kL each) - Above ground water tanks for industrial water (4 x 580kL each) ▪ Building D Utilities including: - Above ground diesel storage tanks (10 x 65kL each) - Above ground water tanks for industrial water (4 x 580kL each) ▪ Building E Utilities including: - Above ground diesel storage tanks (14 x 65kL each) - Above ground water tanks for industrial water (6 x 580kL each) Fire Water Storage Tanks: ▪ Above ground water tanks for fire water (6 x 340kL each) Substation: ▪ On site 330kV substation plus 33kV switching station.
Power Consumption	232 megawatts
Operations and Management	The facility would be constructed and operated by NEXTDC. The site would be operated on a 24-hour, 7 day a week basis.
Existing Services and Infrastructure	Existing services and infrastructures will be extended, adapted and augmented to meet the demands of the Project.
Staging/Phasing	The Project will be constructed in three stages:

Descriptor	Project Details
	▪ Stage 1 = Buildings A, B, C, and substation ▪ Stage 2 = Building D ▪ Stage 3 = Building E

5.0 Stakeholder Engagement

Consultation was undertaken between TTW and Fairfield City Council (FCC) during the preparation of the SSDA application for civil works. Refer to Table 3 below for details.

Table 3: Stakeholder engagement

Relevant stakeholder	Date	Issues discussed	Resolution
Fairfield City Council	22/11/2023	As part of the EIS, the design must comply with the site specific 327-335 Burley Road, Horsley Park Development Control Plan (DCP) 2016.	Stormwater quantity and quality design has been developed in accordance with the site specific proposal as opposed to the council-wide Fairfield City Council DCP.

6.0 Methodology

6.1 Stormwater Quantity

6.1.1 Existing Stormwater

The existing site, shown in Figure 2, is an excavated site in accordance with the subdivision bulk earthworks design by Calibre Construction Engineering Group. The site is fully pervious and has a sedimentation basin in the northwest corner to treat the entire site. This basin discharges to a 1350mm pipe connecting to the street stormwater network. The outlet pipe was designed to accommodate outflows from this basin at 2934 L/sec and 4457 L/sec for the critical 20% AEP and 1% AEP storm events respectively (see highlighted values in Figure 3 and Figure 4 for design flow rates).

Figure 2: Existing Site Condition (Source: Nearmap, 2023)

DRAINAGE CALCULATIONS MINOR - 12D ILSAX 2
MINOR 5 YEAR STORM EVENT

Node	Node Type	Catchment Areas (ha)	Area 1 Percent	Tc (min)		Catchment	Inlet Efficiencies						Uncaptured	Bypass	Bypass	Node			
							Approach	Captured	Minor		Major			Node	HGL	HGL	Freeboard (m)	Grate level	
		Area 1	Impervious (%)	Imperv 1	Perv 1	Flow (L/s)	Flow (L/s)	Flow (L/s)	SAG	Ongrade	SAG	Ongrade	Flow (L/s)						
01\05	SA2	0.0622	100	5	5	22	17	17	100	100	80	80	0	01\06	84.491	83.141	1.303	84.444	
01\06	SA2	0.0675	100	5	5	24	9	9	100	100	80	80	0	01\07	83.23	81.88	1.285	83.165	
01\07	SA2	0.0664	100	5	5	24	23	22	100	100	80	80	1	01\08	82.083	81.25	0.767	82.017	
01\08	SA2	0.0659	100	5	5	24	23	23	100	100	80	80	1	01\09	81.006	79.307	1.633	80.94	
01\09	SA2	0.0686	100	5	5	25	24	23	100	100	80	80	1	01\10	79.803	77.69	2.047	79.737	
01\10	SA2	0.0653	100	5	5	24	23	22	100	100	80	80	1	01\11	78.725	77.007	1.665	78.671	
01\11	SA2	0.0518	100	5	5	18	18	18	100	100	80	80	0	01\12	77.635	76.638	0.939	77.577	
02\01	900x900 G.S.I.P. IAD	0.6911	100	5	5	249	249	249	100	100	80	80	0	01\14	76.872	75.82	1.052	76.872	
03\01	G.G.P. 1.8m E.K.I.	0.0627	100	5	5	23	22	21	100	100	80	80	0	10\01	78.694	77.367	1.264	78.63	
04\01	900x900 G.S.I.P. IAD	4.1865	100	5	5	1511	1511	1511	100	100	80	80	0	04\02	85.427	83.518	1.876	85.395	
04\02	G.G.P. 1.8m E.K.I.	0.1333	100	5	5	49	49	42	100	100	80	80	7	11\01	82.125	81.621	0.436	82.057	
06\01	G.G.P. 1.8m E.K.I.	0.0677	100	5	5	24	23	22	100	100	80	80	1	03\01	79.798	78.463	1.271	79.734	
08\01	900x900 G.S.I.P. IAD	8.1277	100	5	5	2934	2934	2934	100	100	80	80	0	08\02	81.414	76.652	4.712	81.364	
08\02	G.G.P. 2.4m E.K.I. SAG	0.0867	100	5	5	32	32	38	100	100	80	80	0	01\13	76.392	75.235	1.121	76.356	
09\01	G.G.P. 1.8m E.K.I.	0.077	100	5	5	28	27	26	100	100	80	80	1	08\02	76.686	75.394	1.241	76.635	
10\01	G.G.P. 1.8m E.K.I.	0.0644	100	5	5	23	22	22	100	100	80	80	0	09\01	77.685	76.661	0.956	77.618	
11\01	G.G.P. 2.4m E.K.I.	0.063	100	5	5	23	26	26	100	100	80	80	0	06\01	80.995	79.672	1.257	80.929	
14\01	900x900 G.S.I.P. IAD	4.2972	100	5	5	1551	1551	1551	100	100	80	80	0	01\11	78.993	77.584	1.379	78.963	
121\01	900x900 G.S.I.P. IAD	4.336	100	5	5	1565	1565	1565	100	100	80	80	0		78.977	74.594	4.382	78.977	
121\02	G.G.P. 1.8m E.K.I.		100				0	0	100	100	80	80	0		72.001	72.76	-0.759	73.803	

Figure 3: Drainage calculations for minor storm (Source: Subdivision Design Issued for Construction Certificate, Caibre Engineering, 2022)

DRAINAGE CALCULATIONS MAJOR - 12D ILSAX 2
MAJOR 100 YEAR STORM EVENT

						Inlet Efficiencies															
Node	Node Type	Catchment Areas (ha)	Area 1 Percent	Tc (min)		Catchment	Approach	Captured	Minor		Major		Uncaptured	Bypass Node	Bypass HGL	Node HGL	Freeboard (m)	Grate level	Flooded Depth (m)	Bypass Top US Width (m)	Bypass Velocity Depth
		Area 1	Impervious (%)	Imperv 1	Perv 1	Flow (L/s)	Flow (L/s)	Flow (L/s)	SAG	Ongrade	SAG	Ongrade	Flow (L/s)								
01\05	SA2	0.0622	100	5	5	35	37	26	100	100	80	80	11	01\06	84.503	83.758	0.686	84.444	0.059	1.093	0.04
01\06	SA2	0.0675	100	5	5	37	17	14	100	100	80	80	3	01\07	83.24	82.609	0.555	83.165	0.075	1.643	0.06
01\07	SA2	0.0664	100	5	5	36	37	27	100	100	80	80	11	01\08	82.096	81.911	0.106	82.017	0.079	1.779	0.07
01\08	SA2	0.0659	100	5	5	36	44	30	100	100	80	80	13	01\09	81.02	80.361	0.579	80.94	0.08	1.815	0.07
01\09	SA2	0.0686	100	5	5	38	48	33	100	100	80	80	15	01\10	79.819	79.52	0.217	79.737	0.082	1.862	0.07
01\10	SA2	0.0653	100	5	5	36	49	33	100	100	80	80	446	01\11	78.742	78.738	-0.067	78.671	0.071	1.488	0.06
01\11	SA2	0.0518	100	5	5	28	127	-345	100	100	80	80	1375	01\12	77.804	77.804	-0.226	77.577	0.226	8.589	0.42
02\01	900x900 G.S.I.P. IAD	0.6911	100	5	5	379	379	301	100	100	80	80	91	01\14	76.968	76.966	-0.094	76.872	0.096	2.344	0.1
03\01	G.G.P. 1.8m E.K.I.	0.0627	100	5	5	34	408	134	100	100	80	80	208	10\01	78.769	78.769	-0.139	78.63	0.139	3.787	0.19
04\01	900x900 G.S.I.P. IAD	4.1865	100	5	5	2296	2296	2196	100	100	80	80	177	04\02	85.509	85.481	-0.086	85.395	0.114	2.94	0.29
04\02	G.G.P. 1.8m E.K.I.	0.1333	100	5	5	73	647	128	100	100	80	80	994	11\01	82.254	82.254	-0.197	82.057	0.197	7.043	0.31
06\01	G.G.P. 1.8m E.K.I.	0.0677	100	5	5	37	583	189	100	100	80	80	395	03\01	79.891	79.813	-0.079	79.734	0.157	4.697	0.22
08\01	900x900 G.S.I.P. IAD	8.1277	100	5	5	4458	4457	4457	100	100	80	80	0	08\02	81.421	78.764	2.6	81.364	0.057	1.015	0.09
08\02	G.G.P. 2.4m E.K.I. SAG	0.0867	100	5	5	48	358	348	100	100	80	80	0	01\13	76.521	76.521	-0.164	76.356	0.165	2.906	0.13
09\01	G.G.P. 1.8m E.K.I.	0.077	100	5	5	42	373	142	100	100	80	80	231	08\02	76.769	76.769	-0.134	76.635	0.134	3.608	0.16
10\01	G.G.P. 1.8m E.K.I.	0.0644	100	5	5	35	303	101	100	100	80	80	172	09\01	77.766	77.766	-0.148	77.618	0.148	4.092	0.22
11\01	G.G.P. 2.4m E.K.I.	0.063	100	5	5	35	831	267	100	100	80	80	565	06\01	81.106	81.106	-0.177	80.929	0.177	5.858	0.26
14\01	900x900 G.S.I.P. IAD	4.2972	100	5	5	2357	2356	2305	100	100	80	80	90	01\11	79.043	79.043	-0.08	78.963	0.08	1.813	0.14
121\01	900x900 G.S.I.P. IAD	4.336	100	5	5	2378	2378	2378	100	100	80	80	0		78.977	76.468	2.508	78.977	0		
121\02	G.G.P. 1.8m E.K.I.		100				0	0	100	100	80	80	0		72.001	72.76	-0.759	73.803	0		

Figure 4: Drainage calculations for major storm (Source: Subdivision Design Issued for Construction Certificate, Caibre Engineering, 2022)

6.1.2 Proposed Stormwater

The proposed stormwater design has been designed in accordance with the 327-335 Burley Road, Horsley Park Development Control Plan 2016 (hereafter referred to as 'the DCP'). All new site stormwater is required to be conveyed by gravity and discharge from the site via Council's existing drainage system and existing catchment conditions should be maintained where practical. The site is subject to the permissible site discharge (PSD) and site storage requirement (SSR) which is outlined in Section 3.2 the DCP (2016), refer to Figure 5).

6. Each lot of the subdivision is to provide an individual OSD system incorporated into its respective internal drainage systems. Each lot will have Site Storage Requirement (SSR) and Permissible Site Discharge (PSD) based on a lot area basis as summarised in Table 3.

Table 3: Summary of On-Site Detention Requirements

Attribute	5 Year ARI	100 Year ARI
PSD* (m3/s/ha)	0.15	0.28
SSR* (m3/ha)	170	290

Note: * PSD and SSR are to be provided at a rate of the total Lot Area.

Figure 5: Permissible Site Discharge Requirements (327-335 Burley Road, Horsley Park DCP, 2016)

At a site area of 8.206 ha, the maximum PSD for the total site is 1.231m^3/sec for the 20% AEP storm (equivalent to 5 year ARI) and 2.298m^3/sec for the 1% AEP storm (equivalent to 100 year ARI). The total site storage requirement for the site is 1395 m^3 for the 20% AEP storm and 2380 m^3 for the 1% AEP storm.

Surface stormwater flows are to be conveyed by site grading and collected by Surface Inlet Pits (SIP). SIPs are proposed at sag points along the internal access roads. Overland flow paths are provided as part of the proposed grading to direct overland flows away from buildings in the event blockages occur. Emergency overland flow paths are directed along the internal access roads towards the road reserve to the west and north of the site. Surface and roof flows collected by the in-ground stormwater network are directed to on-site stormwater detention (OSD) and water quality treatment devices. Roof catchments are to be collected in roof gutters and conveyed by downpipes to an in-ground pipe system.

In-ground stormwater is not proposed within the future substation yard. The stormwater design in this area is to be done by others. Bulk earthworks are proposed to grade the area towards the proposed internal roads (with a minimum slope of 1:100). A temporary swale is swape around the internal perimeter of the substation yard to direct overland flows towards the proposed in-ground stormwater drainage. Temporary headwall connections are proposed, which can be removed or blocked if required once the substation yard is developed.

The majority of the site stormwater (including all OSD outlets) will discharge via the on-site stormwater network to the existing stormwater pipe at the northwest of the site. The proposed site discharge into the existing site

outlet pipe is significantly less than the existing site design conditions (outlined in Section 6.1.1) due to the DCP's (2016) PSD requirements. Hence, the impact of the proposed development on the existing stormwater infrastructure is considered negligible. The remaining site area that cannot be drained to the existing pipe will be discharged via pipe and pipes to the existing inground road drainage to the west of the site. The impact on the existing stormwater infrastructure in the public road is expected to be minor as it only accounts for a small portion of the site.

6.1.3 Proposed On-Site Detention

Five (5) in-ground OSD tanks are proposed to mitigate stormwater flows as per the PSD and SSR requirements outlined above. The majority of surface and roof stormwater is to be directed to one of the OSDs. The proposed OSD outlet structures are to consist of two orifices, one sized for the minor 20% AEP and the other sized for the major 1% AEP critical flows. An emergency overflow weir is proposed to be provided at the tank 1% AEP top water level and sized for 1% AEP flows, to mitigate impacts if the orifices are to be become blocked. The existing sediment basin is to be taken offline and filled as part of the proposed development.

The catchments for each proposed OSD is outlined below:

- OSD 1 catchment – Buildings A and B roofs and surrounding site areas.
- OSD 2 catchment – Building C roofs and surrounding site areas.
- OSD 3 catchment – Building D roofs and surrounding site areas.
- OSD 4 catchment – Western portion of building E roofs and surrounding site areas.
- OSD 5 catchment – Eastern potion of building E roofs, future substation yard and surrounding site areas.

The remaining areas which cannot be realistically drained to one of the OSDs will bypass the OSD and drain via on-site pipe and pipe networks to the existing road drainage to the west of the site. The flows generated in the bypass areas will be accounted for in the cumulative PSD calculations from the proposed site. Any upstream catchment flows onto the site are to be directed as per existing site conditions.

6.1.4 Proposed Staging of Stormwater Design

Stormwater within the Stage 1 boundary is to be completed in Stage 1. OSDs 1, 2 and 5 are to be constructed at stage 1. Temporary sedimentation basins will be located within the Stage 2 and Stage 3 areas as interim solutions prior to the construction of OSDs 3 and 4 for temporary stormwater detention purposes. The remaining stormwater infrastructure will be completed as part of Stage 2 and Stage 3 after which the temporary sedimentation basin will be removed.

6.1.5 DRAINS Model Layout and Results

The DRAINS model layout is shown in Figure 6 below. Figure 7 and Figure 8 show the modelled site discharge flowrates for the proposed condition critical 20% and 1% AEP storm events respectively. The results of the DRAINS model are summarised in Table 4. The table demonstrates that the proposed stormwater and OSD design is compliant with the guidelines outlined in the DCP (2016).

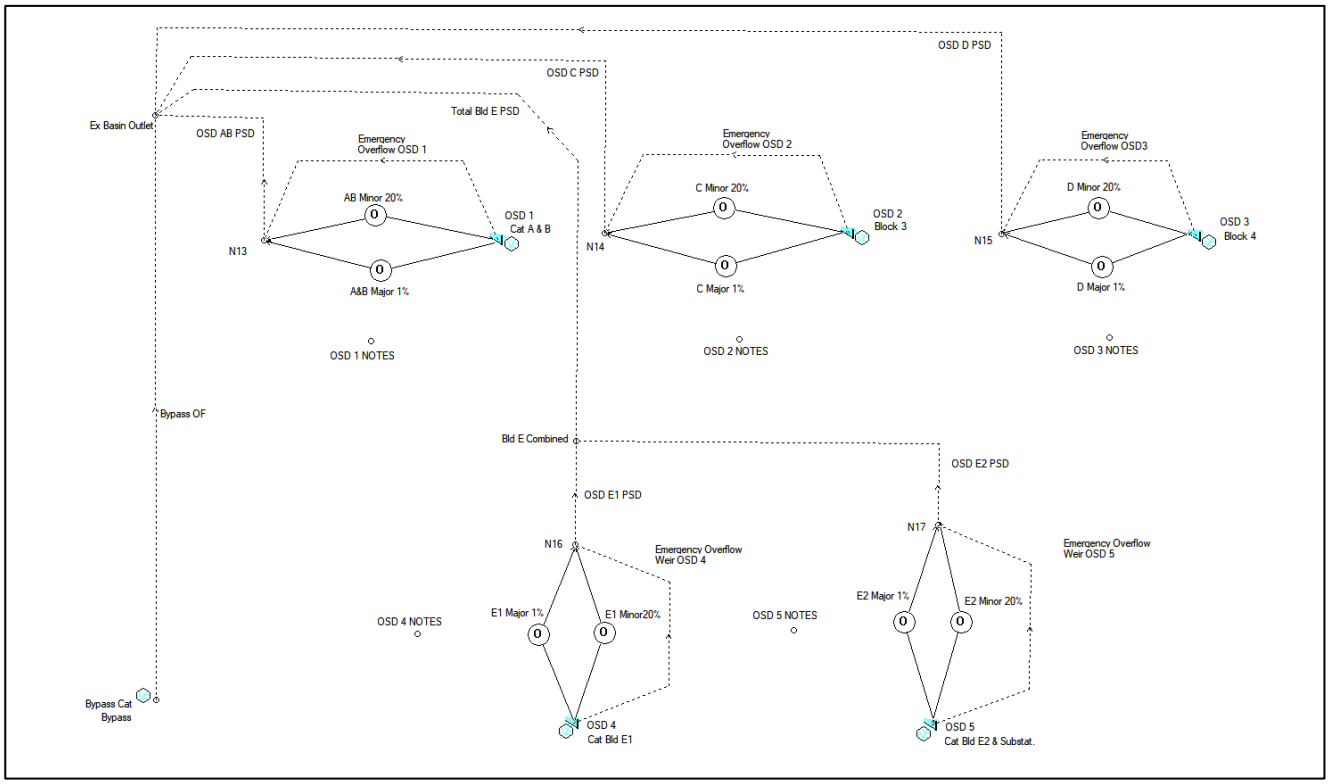


Figure 6 : DRAINS Model Layout

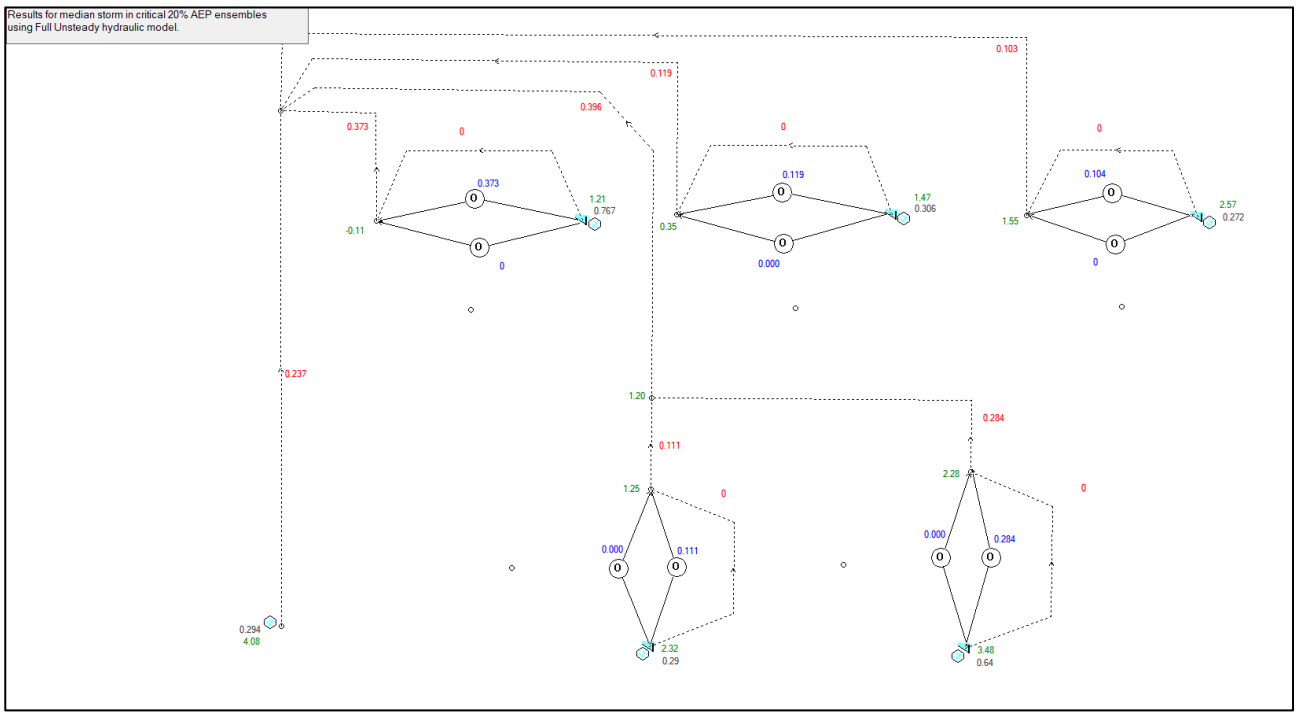


Figure 7: DRAINS model results - 20% AEP

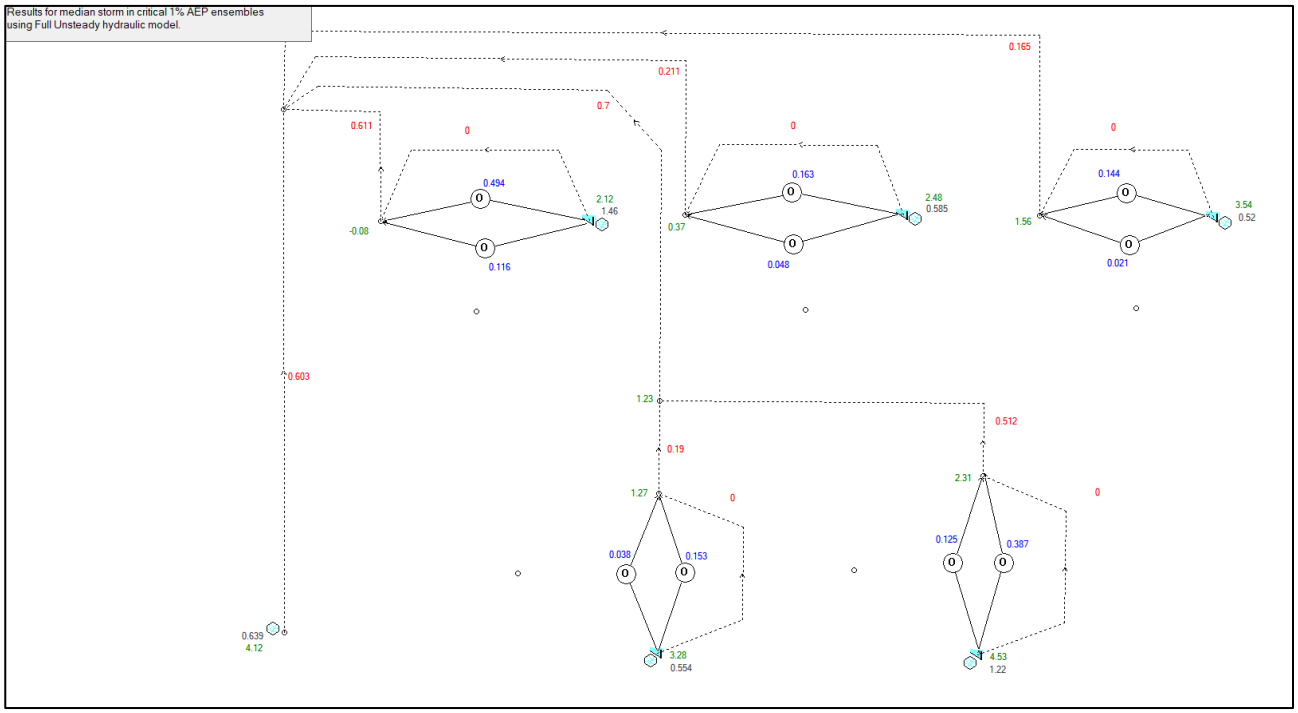


Figure 8: DRAINS model results - 1% AEP

Table 4: DRAINS model results summary.

	Storage Volume (m^3)	20% AEP Outflow (m^3/s)	1% AEP Outflow (m^3/s)
DCP (2016) requirement [1]	2380 [2]	1.231	2.298
DRAINS model results	2380 [3]	1.228 [4]	2.292 [4]
Compliance check	✓	✓	✓

Notes:
1. Based on DCP (2016) minimum SSR and maximum PSD requirements.
2. DCP (2016) 1% AEP SSR requirement.
3. Sum of all OSD tank volumes proposed on site.
4. Sum of outflow flowrates from all OSDs and bypass catchments.

6.2 Stormwater Quality

6.2.1 Overview

The proposed stormwater quality treatment is designed to meet the stormwater management objectives as outlined in 327-335 Burley Road, Horsley Park Development Control Plan 2016 Section 3.2 (refer to Figure 9).

Table 2: Water quality and environmental flow targets

	WATER QUALITY % reduction in pollutant loads			
	Gross Pollutants (>5mm)	Total suspended solids	Total phosphorous	Total nitrogen
Stormwater management Objective	90	85	65	45

Figure 9: Stormwater pollutant reduction targets (Source: Table 2, 327-335 Burley Road, Horsley Park Development Control Plan 2016)

Stormwater quality reduction targets are to be met through the use of any of the following devices;

- Ocean Protect Storm Filter Cartridges (or equivalent)
- Ocean Protect Oceanguard Pit Inserts (or equivalent)
- Rainwater Tanks
- First Flush Systems
- Swales, bioretention swales, and buffer strips
- Bioretention basins
- Constructed wetlands
- Raingardens

6.2.2 MUSIC Model Layout and Results

The proposed stormwater quality treatment train was modelled using the Model for Urban Stormwater Improvement Conceptualisation (MUSIC) to model pollutant load target reductions. The results of the modelling were compared to the reduction targets outlined in Figure 9.

MUSIC simulates the performance of a group of stormwater management measures, configured in series or in parallel to form a “treatment train” against historic rainfall event data sets. It is the industry standard water quality modelling software developed by the MUSIC development team of the Cooperative Research Centre for Catchment Hydrology (CRCCH).

6.2.3 Proposed Treatment Train

Stormwater runoff on site is proposed to be treated by a rainwater reuse tank, pit-insert filter baskets and filtration cartridges.

Rainwater from buildings A and B are to roof surfaces is to be harvested and reused by a rainwater tank. Rainwater tank details for Buildings A and B have been provided by Aurecon via email correspondence. For modelling purposes, 25% of the roof catchment for the development has been designed to bypass the tank and connect directly to the filter cartridge chamber. Overflow from the rainwater tank will also discharge to the proposed in-ground stormwater network.

Surface runoff from external areas will be captured by surface inlet pits and treated by Oceanguard filter baskets prior to conveyance to the filter chamber (or equivalent alternative). The Stormfilter chambers with filter cartridges are proposed to be located within the each of the proposed OSD tanks.

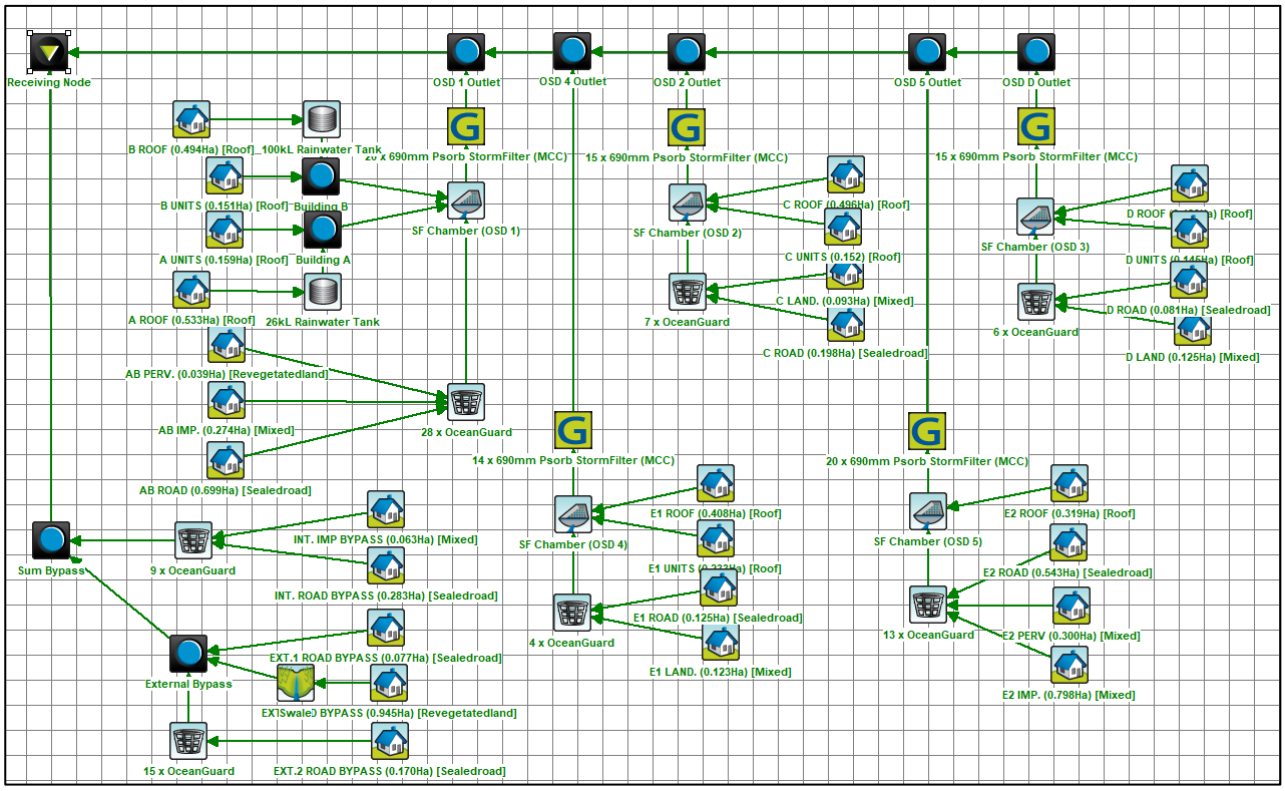


Figure 10 - Proposed Treatment Train

The results of the proposed treatment train compared to the council targets are tabulated below. As shown, the development meets Council's requirements for pollutant reduction based on the proposed treatment train consisting of rainwater reuse, pit-insert filter baskets and filter cartridges.

Table 5: MUSIC model results summary.

Pollutant	DCP (2016) stormwater management objective (%)	Modelled reduction (%)	Compliance check
Total Suspended Solids (TSS)	85	86.9	✓
Total Phosphorus (TP)	65	65.1	✓
Total Nitrogen (TN)	45	46.7	✓
Gross Pollutants (GP)	90	98.9	✓

6.3 Erosion and Sediment Control

During the construction stages of the project, an erosion and sediment control plan is to be implemented to prevent sediment laden stormwater from flowing into adjoining properties, bushland, roadways or receiving water bodies. Stormwater controls onsite are detailed in erosion and sediment control plans which is in accordance with relevant regulatory authority guidelines including Landcom NSW's Managing Urban Stormwater, Soils and Construction ("Blue Book"). The proposed Erosion and Sediment Control Plan included in Appendix A.

7.0 Assessment and Mitigation of Impacts

7.1 Existing Environment

The proposed stormwater has been designed to integrate with existing site and surrounding stormwater infrastructure as best as possible, by utilising the following measures:

- The existing stormwater outlet pipe to the north east of the site is to be retained. The on-site proposed stormwater network is designed to direct the majority of site stormwater to the existing connection point. Low-lying areas on the site which cannot be physically drained to this existing discharge point are to be directed to the existing public road stormwater via a new in-ground connection.
- On-site detention basins to mitigate stormwater outflows to PSD requirements.
- On-site water quality treatments to mitigate pollutants outflows to required reduction targets.

7.2 Statutory Requirements

The proposed stormwater has been designed to comply with the guidelines outlined in Fairfield City Council's site specific 327-335 Burley Road, Horsley Park Development Control Plan 2016. Refer to Sections 6.1 and 6.2 for details.

7.3 Cumulative Impacts

Stormwater impacts are managed through the implementation of stormwater controls throughout the site to mimic existing conditions and adhere to guidelines set out by DCP (2016). Discharge from the site has been designed to not exceed the DCP (2016) PSD from site and to connect to the existing council network with no cumulative impacts.

7.4 Mitigation Measures

The proposed civil design includes the following mitigation measures:

- On site stormwater detention to reduce the rate of discharge of stormwater from the site to an acceptable level in accordance with the DCP (2016).
- On site stormwater quality treatment to mitigate the impact of the site on downstream water quality.
- Erosion and sediment control measures during construction to mitigate downstream impacts on water quantity and quality.

8.0 Site Works

8.1 Bulk Earthworks

Bulk earthworks will be required to facilitate the development of the site for the proposed development, including the proposed substation yard (final design by others), will be undertaken in Stage 1. The earthworks will be undertaken to provide several large, flat building pads, internal roads, footpaths, and landscaping areas with required set downs from finished levels to accommodate pavement and slab thicknesses (to be confirmed at detailed design stage). Temporary batters are to be provided at stage 1 for Buildings C and E building pad bulk earthworks, with a maximum slope of 1:4 (to be confirmed by geotechnical report). Final earthworks and boxing for the proposed substation yard are to be designed by others.

Subject to geotechnical engineer advice, site preparation is anticipated to include:

- Stripping of topsoil from work areas to be stockpiled for landscape areas. Requirements for the removal of topsoil and any ground improvement will be dependent on the future geotechnical investigations of the site.
- Tyne, water and roll the areas which filling, paving or building slabs are to be placed. Proof roll in accordance with geotechnical advice;
- Placement of acceptable material from cut areas shall be placed in layers of no more than 200 mm to the compaction requirements;
- Filled areas and cut areas to be overlain by buildings and pavements are to be protected to maintain constant moisture content in the soil. The protection is to remain in place until construction is complete.

An independently approved NATA registered testing authority will be required to perform all the compaction testing of earthworks and submit test certificates to the Superintendent. Compaction will need to comply with the set requirements.

Above details, including treatment of temporary batters, are to be confirmed upon receipt of geotechnical report. Earthworks details are subject to change as part of detailed design.

8.2 Concept pavement

Pavement details are to be provided at detailed design stage. The majority of internal road, parking and footpaths are proposed to be concrete pavements, designed for the intended loading and suitable jointing arrangement. Proposed vehicle crossing pavement are to be compliant with Fairfield Council's guidelines and engineering specifications. Any proposed modifications to public road pavement (e.g. proposed vehicle crossings tie in works) are to match the existing pavement profile. These details are subject to change at detailed design stage.

8.3 Retaining Walls

Existing on-site retaining walls are to be retained where possible. Existing retaining walls are located along the site boundary and are up to 10m high in some locations. The existing retaining wall along the western site boundary is to be replaced or modified to accommodate proposed vehicle and pedestrian accessways. A portion of the retaining wall along the southern extent of the proposed development is to be removed to allow for the provision of a construction access road to the future substation yard. The retaining wall in this area is to be replaced with a batter with a maximum slope of 1:4 (subject to geotechnicaadviceneer advise). Minor internal landscaping walls are proposed to account for level differences (up to 3.5m high approx.). Retaining wall details are subject to change at detailed design stage.

9.0 Public Domain Works

All public domain works will be completed in Stage 1. The scope of civil modification works to public domain includes the following:

- Proposed vehicle crossings for passenger vehicles and commercial vehicles to Johnston Crescent to the west of the site, to be in compliance with Council's guidelines, Council's engineering specifications and relevant Australian Standards.
- Minor public road footpath amendments on the eastern side of Johnston Crescent, where required, to accommodate the proposed drop-off/pick-up area.
- Proposed in-ground stormwater pit and pipe connections to the west of the site to connect proposed site drainage to the existing road drainage.
- Proposed public domain civil works are subject to change at detailed design stage.

10.0 Conclusion

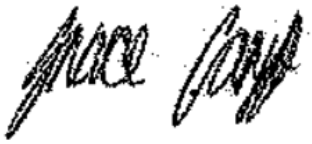
The following provides a summary of the proposed concept civil engineering and stormwater management for the NEXTDC S4 Data Centre in Horsley Park.

- Stormwater on-site detention has been designed in order to discharge at a rate below the permissible site discharge for the 20% and 1% AEP storm as set out in the 327-335 Burley Road, Horsley Park DCP. The governing site storage requirement for the site is 2378 m^3 for the 1% AEP storm which has been adhered to via the design of five tanks totalling 2682 m^3 altogether.
- Stormwater treatment design is pending the confirmation of rainwater tank size and reuse along with landscape design. The stormwater treatment train will aim to meet stormwater pollutant reduction targets set out in the DCP.
- An erosion and sediment control plan to manage stormwater quantity and quality for the site during construction.
- Bulk earthworks are to be completed in stage 1. All other civil works including stormwater construction and pavements are to be completed within respective stages.
- Public domain works will occur in Stage 1.

Prepared by
TTW (NSW) PTY LTD

CHRISTOPHER GENTILE
Senior Engineer

Authorised By
TTW (NSW) PTY LTD



GRACE CARPP
Associate

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11.0 Appendix A

Civil Drawings

NEXTDC DATA CENTRE - SHIRAZ 4

16 JOHNSTON CRESCENT, HORSLEY PARK, NSW 2175 AUSTRALIA

STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

LOCALITY PLAN
NTS

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
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Document Author Project Number

Key Plan

Site:	Stage:	NEXTDC Project Number:

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AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
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SURVEY

ORIGIN OF LEVELS:	-
DATUM OF LEVELS:	AHD
COORDINATE SYSTEM:	M.G.A
SURVEY PREPARED BY:	EGIS GROUP
SETOUT POINTS:	-

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2. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
3. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
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DESIGN AND CONSTRUCT DOCUMENTATION

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2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE FINAL DESIGN IS CO-ORDINATED FULLY WITH OTHER CONSULTANTS.
3. NO VARIATION WILL BE ACCEPTED FOR DESIGN AMENDMENTS REQUIRED TO MEET THE FUNCTIONAL OBJECTIVE OF THIS DOCUMENTATION.

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LEGEND

BOUNDARY

- SITE BOUNDARY
- EXTERNAL BOUNDARY
- STAGING BOUNDARY

SITEWORKS

- PROPOSED CONTOUR (22.50)
- EXISTING CONTOUR (22.50)
- PROPOSED RETAINING WALL

STORMWATER MANAGEMENT

- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- FLOW DIRECTION
- CONCEPT PIPE SIZE
- PROPOSED SWALE
- PROPOSED GRATED DRAIN
- PROPOSED GRATED SURFACE INLET PIT (GSIP)
- PROPOSED JUNCTION PIT (JP)
- PROPOSED KERB INLET PIT (KIP)
- EXISTING STORMWATER PIT
- PROPOSED ON-SITE DETENTION BASIN
- OVERLAND FLOW PATH

ROADWORKS

- ROAD ALIGNMENT
- PROPOSED EDGE OF CARIAGEWAY
- PROPOSED KERB ONLY (KO)
- PROPOSED VEHICLE CROSSING (VC)
- PROPOSED VEHICLE CROSSING PAVEMENT
- PROPOSED VEHICLE CROSSING PAVEMENT (HEAVY VEHICLES)
- PROPOSED INTERNAL CONCRETE PAVEMENT
- PROPOSED INTERNAL TEMPORARY PAVEMENT FOR CONSTRUCTION VEHICLES

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Document Author Project Number

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Site:	Stage:	NEXTDC Project Number:

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HORSLEY PARK, NSW 2175
AUSTRALIA

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S4-CI-NXT-DRG-0000-0010	GENERAL ARRANGEMENT PLAN
S4-CI-NXT-DRG-0000-0020	STAGING PLAN
S4-CI-NXT-DRG-0000-0100	SEDIMENT AND EROSION CONTROL PLAN
S4-CI-NXT-DRG-0000-0110	SEDIMENT AND EROSION CONTROL DETAILS

BULK EARTHWORKS

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SITEWORKS

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S4-CI-NXT-DRG-0000-3100	RETAINING WALL PLAN

STORMWATER

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S4-CI-NXT-DRG-0000-4200	STORMWATER PIT SCHEDULE - SHEET 1
S4-CI-NXT-DRG-0000-4201	STORMWATER PIT SCHEDULE - SHEET 2

ROADWORKS

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S4-CI-NXT-DRG-0000-5002	ROADWORKS PLAN (STAGE 1)

SECTIONS

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S4-CI-NXT-DRG-0000-6015	ROADWORKS LONGITUDINAL AND TYPICAL SECTIONS - SHEET 6
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S4-CI-NXT-DRG-0000-6101	RETAINING WALL LONG. SECTIONS - SHEET 2

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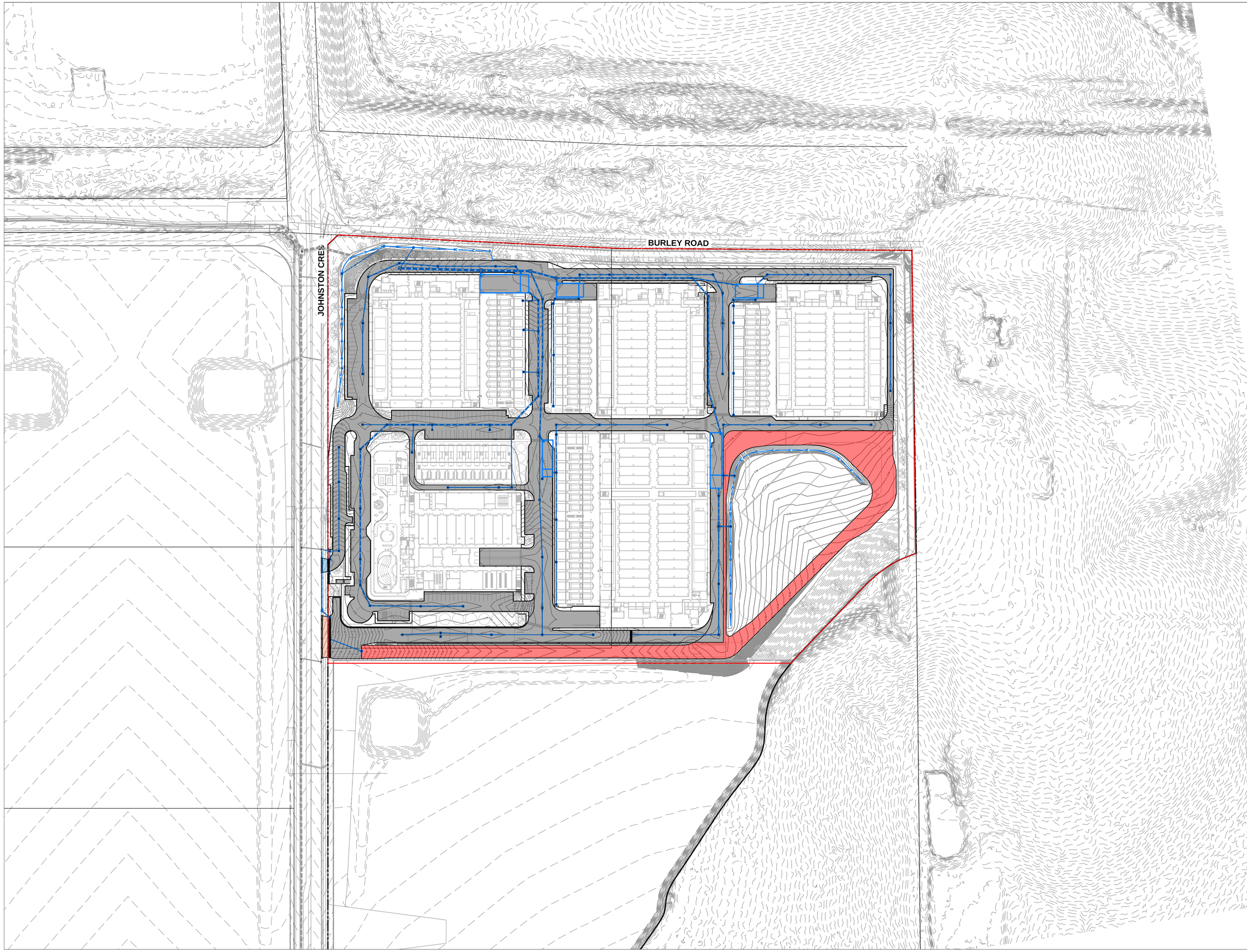

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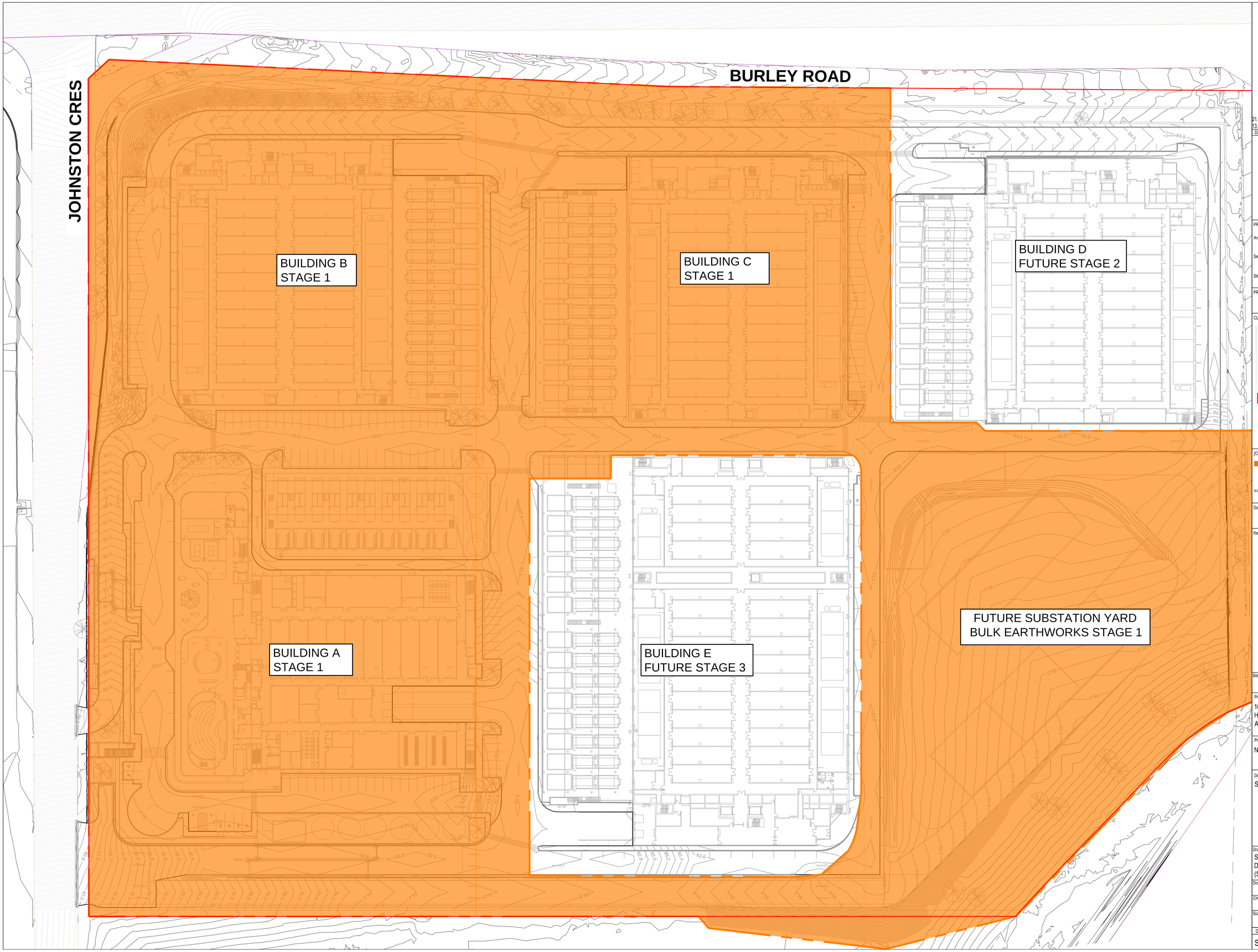

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BURLEY ROAD

JOHNSTON CRES

RETAIN EXISTING SEDIMENT BASIN OUTLET.

SEDIMENT BASIN

INDICATIVE STOCKPILE LOCATION

TEMPORARY CONSTRUCTION ENTRY/EXIT

EROSION AND SEDIMENT CONTROL LEGEND

- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Catch drain

NOTE:
1. THIS PAGE IS TO BE READ IN CONJUNCTION WITH DRAWING NO. S4-CI-NXT-DRG-0000-0110.

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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6. ASL = ABOVE SLAB LEVEL

PRINCIPAL CONSULTANTS

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Services: AURECON

Structural: TTW

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TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site:	Stage:	NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

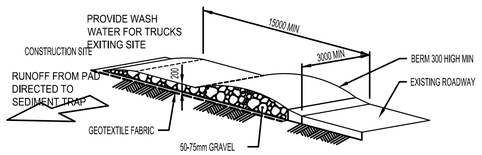
Drawing title
SEDIMENT AND EROSION CONTROL PLAN

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
GC	21/03/2024

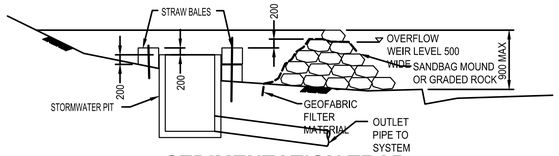
Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-0100	1



TEMPORARY CONSTRUCTION EXIT

NTS



SEDIMENTATION TRAP

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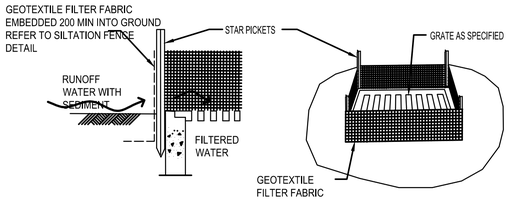
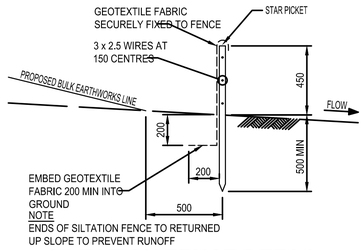


GEOTEXTILE FILTER PIT SURROUND

NTS

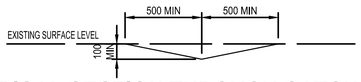
TYPICAL SECTION THROUGH CATCH DRAIN

SCALE 1: 20



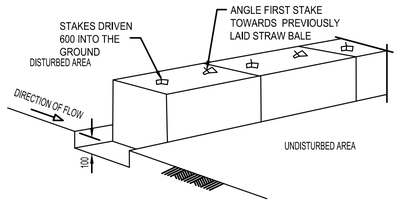
SILTATION FENCE DETAIL

SCALE 1: 20



TYPICAL SECTION THROUGH CATCH DRAIN

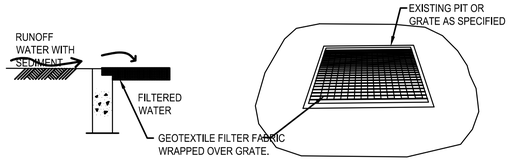
SCALE 1: 20



HAY BALE SEDIMENT FILTER

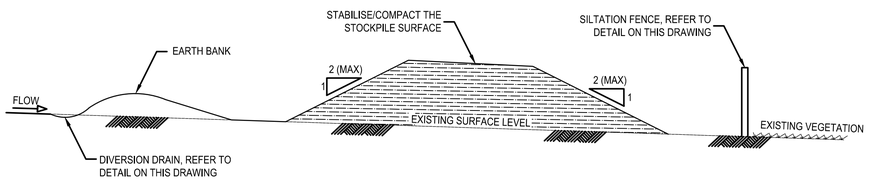
NTS

NOTE: STAKE TO BE EITHER TAR COATED
STAR OR 50 x 50 HARDWOOD



GEOTEXTILE PIT FILTER

NTS



STOCKPILE

NTS

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
   (A) Local authority requirements,
   (B) EPA - Pollution control manual for urban stormwater,
   (C) LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book"),
2. Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities.
   The erosion and sediment control plan shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water
into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION AND SEDIMENT CONTROL PUMP OUT NOTES

Any accumulated water contaminated with sediment, from a sediment basin or excavation pit, is to be flocculated or filtered in order to lower the suspended solid load to less than 50mg per litre gypsum gas or other approved flocculant should be applied within 24 hours of the end of the storm event. The gypsum must be spread evenly over the entire water surface. Pumping is not to occur for at least 36 hours and preferably 48 hours after application. Clean water is to be discharged to the water table via a hale bail sediment filter in a way that does not pick up sediment that has dropped to the bottom.
Note: gypsum is a hydrated form of calcium sulphate and is available at many swimming pool shops and hardware stores.

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PRINCIPAL CONSULTANTS

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Services: AURECON

Structural: TTW

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Key Plan

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AUSTRALIA

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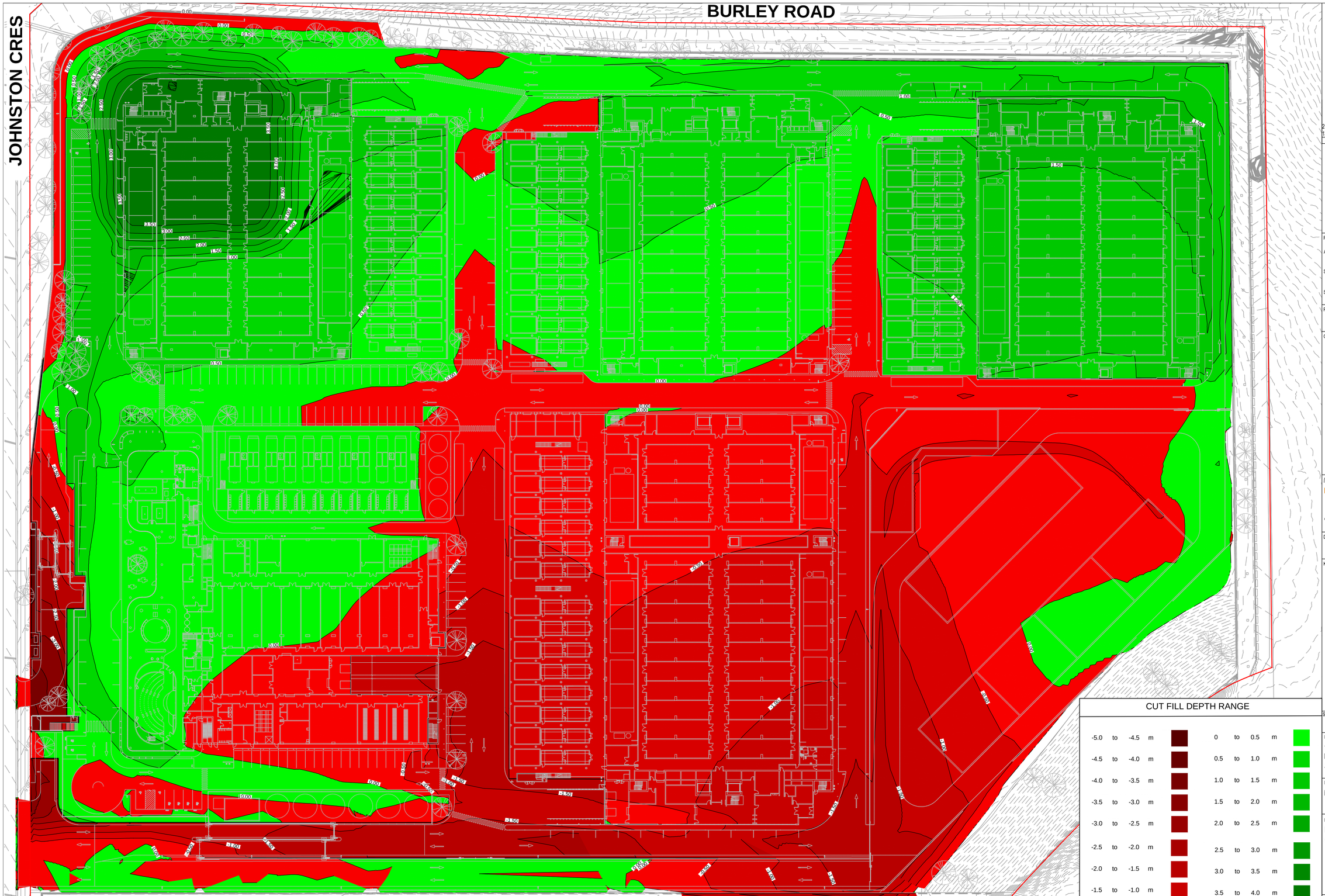
Drawing title
SEDIMENT AND EROSION CONTROL DETAILS

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK: CG	Date: 21/03/2024

Scale: AS SHOWN | Sheet: A1 | File Name:

Drawing Number: S4-CI-NXT-DRG-0000-0110 | Rev: 2



CUT FILL DEPTH RANGE

-5.0	to	-4.5	m		0	to	0.5	m
-4.5	to	-4.0	m		0.5	to	1.0	m
-4.0	to	-3.5	m		1.0	to	1.5	m
-3.5	to	-3.0	m		1.5	to	2.0	m
-3.0	to	-2.5	m		2.0	to	2.5	m
-2.5	to	-2.0	m		2.5	to	3.0	m
-2.0	to	-1.5	m		3.0	to	3.5	m
-1.5	to	-1.0	m		3.5	to	4.0	m
-1.0	to	-0.5	m		4.0	to	4.5	m
-0.5	to	0	m		4.5	to	5.0	m

PRELIMINARY VOLUME ANALYSIS

	VOLUME (M^3)
CUT	-37,150
FILL	22,190
BALANCE	-14,960

NOTES:
1. BULK EARTHWORKS DEPTHS SHOWN FROM AVAILABLE SURVEY LEVELS TO FINISHED DESIGN SURFACE LEVELS
2. VOLUME CALCULATION ASSUMED 300mm SETDOWN FOR ALL PROPOSED PAVEMENTS, SLABS AND LANDSCAPING AREAS, TO BE CONFIRMED AT DETAILED DESIGN STAGE.
3. BULK EARTHWORKS DEPTHS AND VOLUMES SHOWN ARE PRELIMINARY ONLY AND SUBJECT TO CHANGE AT DETAILED DESIGN STAGE
4. NOT TO BE USED FOR TENDER OR DETAILED EXCAVATION. CONTRACTOR TO UNDERTAKE THEIR OWN VERIFICATION OF CUT FILL VOLUMES.

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Services: AURECON

Structural: TTW

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Document Author Project Number

Key Plan

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HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

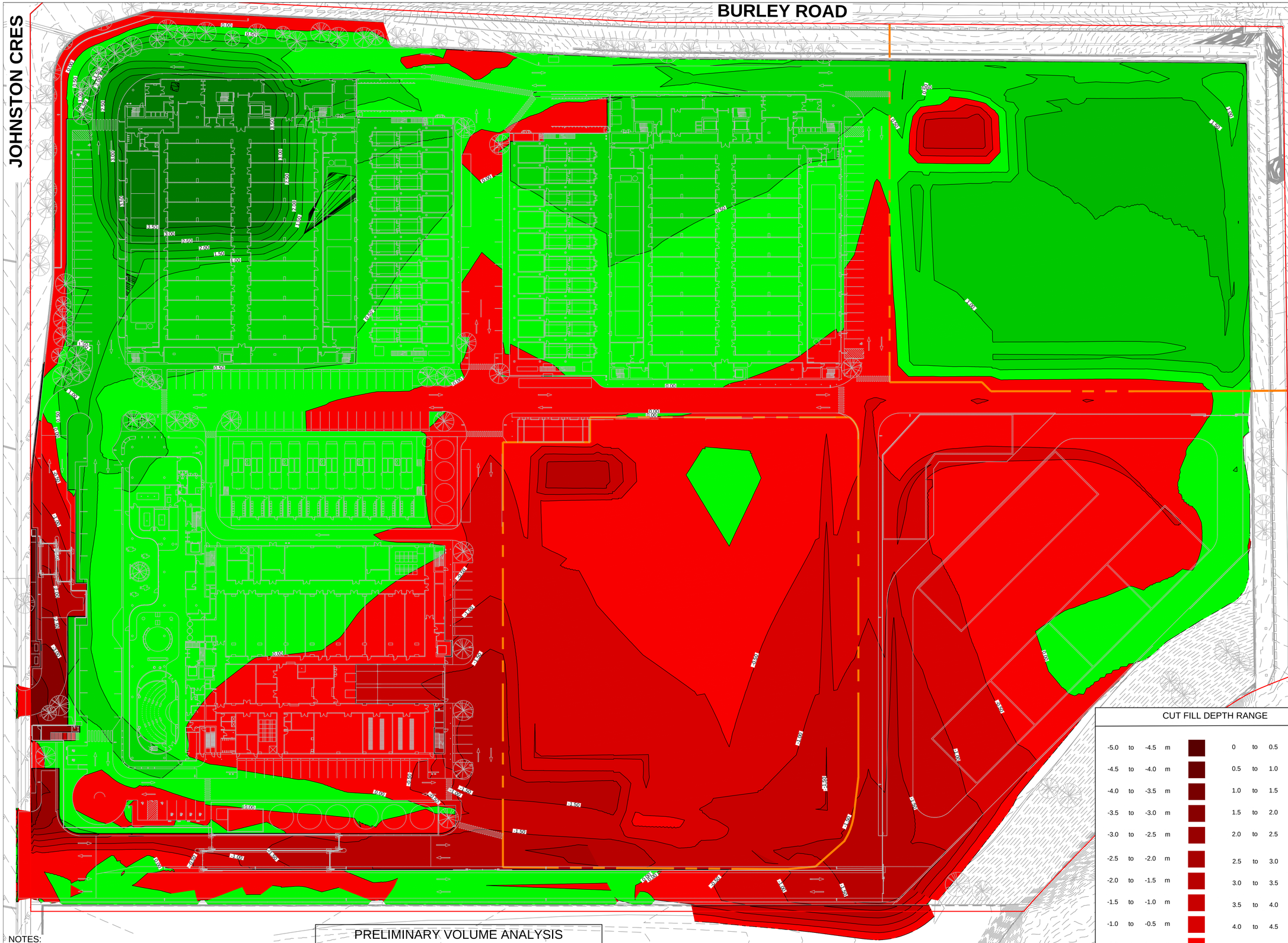
Drawing title
BULK EARTHWORKS
CUT/FILL PLAN (ULTIMATE)

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale: 1:500 | Sheet: A1 | File Name:

Drawing Number	Rev
S4-CI-NXT-DRG-0000-1000	2



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PRELIMINARY VOLUME ANALYSIS

	VOLUME (M³)
CUT	-37,410
FILL	21,370
BALANCE	-16,040

CUT FILL DEPTH RANGE

-5.0	to	-4.5	m		0	to	0.5	m	
-4.5	to	-4.0	m		0.5	to	1.0	m	
-4.0	to	-3.5	m		1.0	to	1.5	m	
-3.5	to	-3.0	m		1.5	to	2.0	m	
-3.0	to	-2.5	m		2.0	to	2.5	m	
-2.5	to	-2.0	m		2.5	to	3.0	m	
-2.0	to	-1.5	m		3.0	to	3.5	m	
-1.5	to	-1.0	m		3.5	to	4.0	m	
-1.0	to	-0.5	m		4.0	to	4.5	m	
-0.5	to	0	m		4.5	to	5.0	m	

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Services AURECON

Structural TTW

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AUSTRALIA

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Drawing title
BULK EARTHWORKS
CUT/FILL PLAN (STAGE 1)

Drawing Status:
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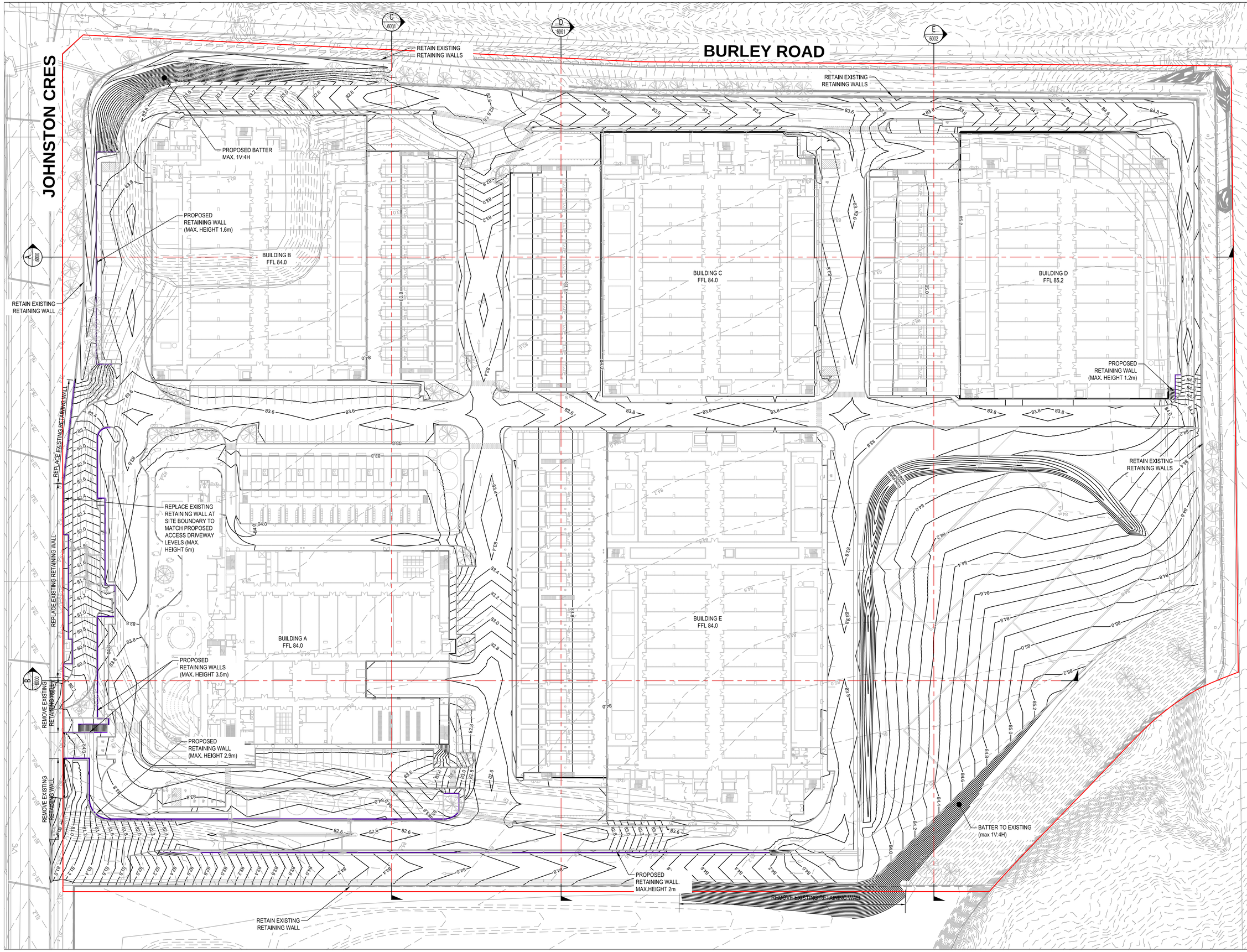
S4-CI-NXT-DRG-0000-1001	2



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Drawing title
SITEWORKS PLAN
(ULTIMATE)

Drawing Status:
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Scale:	Sheet:	File Name:
1:500	A1	

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S4-CI-NXT-DRG-0000-3000	2

JOHNSTON CRES

BURLEY ROAD

C 6001 | D 6001 | E 6002

A 6000 | B 6000

RETAIN EXISTING RETAINING WALLS

PROPOSED BATTER MAX. 1V:4H

PROPOSED RETAINING WALL (MAX. HEIGHT 1.6m)

RETAIN EXISTING RETAINING WALL

BUILDING A FFL 84.0

BUILDING B FFL 84.0

BUILDING D FFL 84.0

REPLACE EXISTING RETAINING WALL

REPLACE EXISTING RETAINING WALL AT SITE BOUNDARY TO MATCH PROPOSED ACCESS DRIVEWAY LEVELS (MAX. HEIGHT 5m)

PROPOSED RETAINING WALLS (MAX. HEIGHT 3.5m)

REMOVE EXISTING RETAINING WALL

PROPOSED RETAINING WALL (MAX. HEIGHT 2.9m)

REMOVE EXISTING RETAINING WALL

PROPOSED TEMPORARY BATTER, MAX. 1V:4H

PROPOSED TEMPORARY BATTER, MAX. 1V:4H

PROPOSED TEMPORARY BATTER, MAX. 1V:4H

PROPOSED TEMPORARY BATTER, MAX. 1V:4H

RETAIN EXISTING RETAINING WALLS

BATTER TO EXISTING (max 1V:4H)

REMOVE EXISTING RETAINING WALL

RETAIN EXISTING RETAINING WALL

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AUSTRALIA

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Drawing title
SITEWORKS PLAN
(STAGE 1)

Drawing Status:
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CG	13/03/2024

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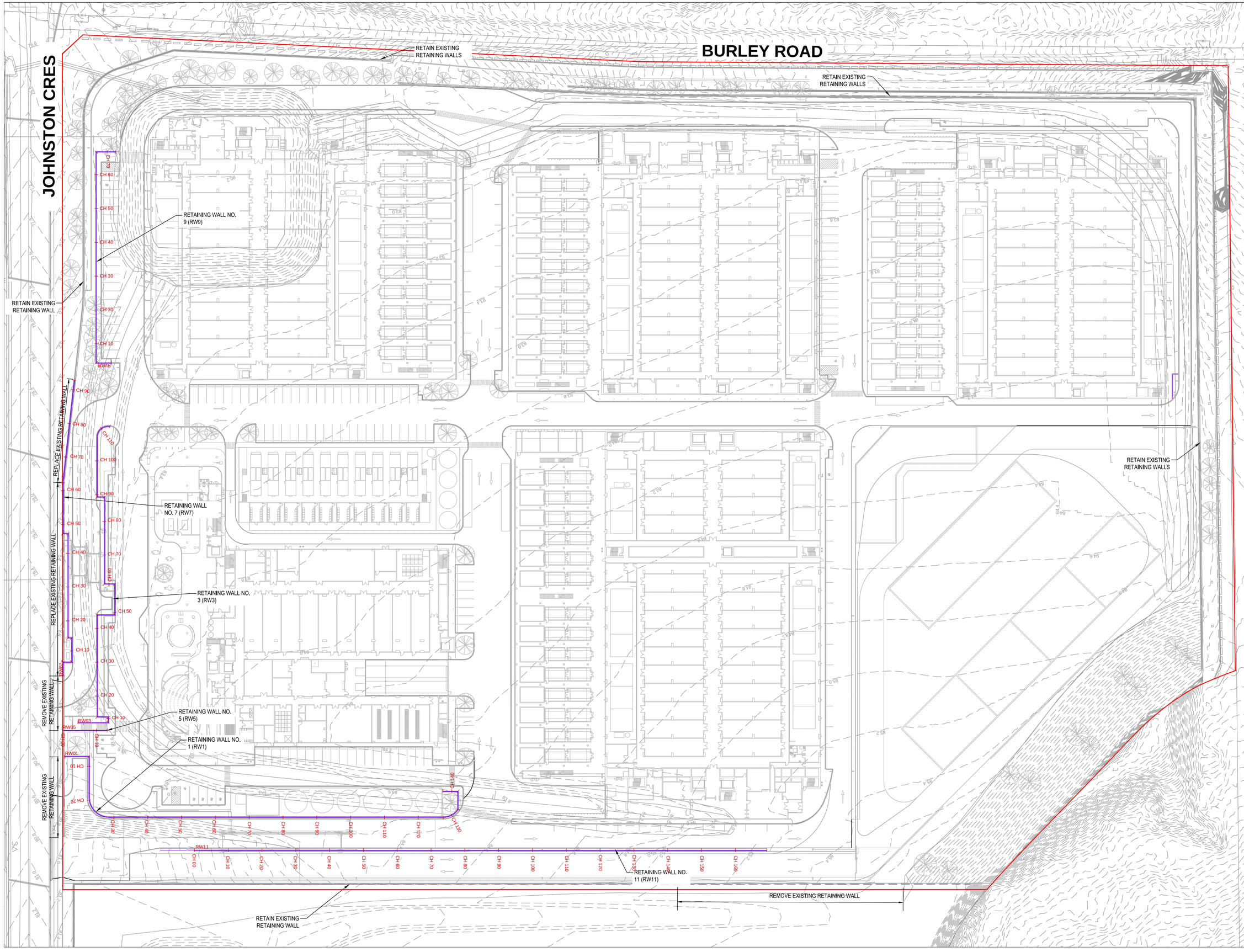

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Drawing title
RETAINING WALL PLAN

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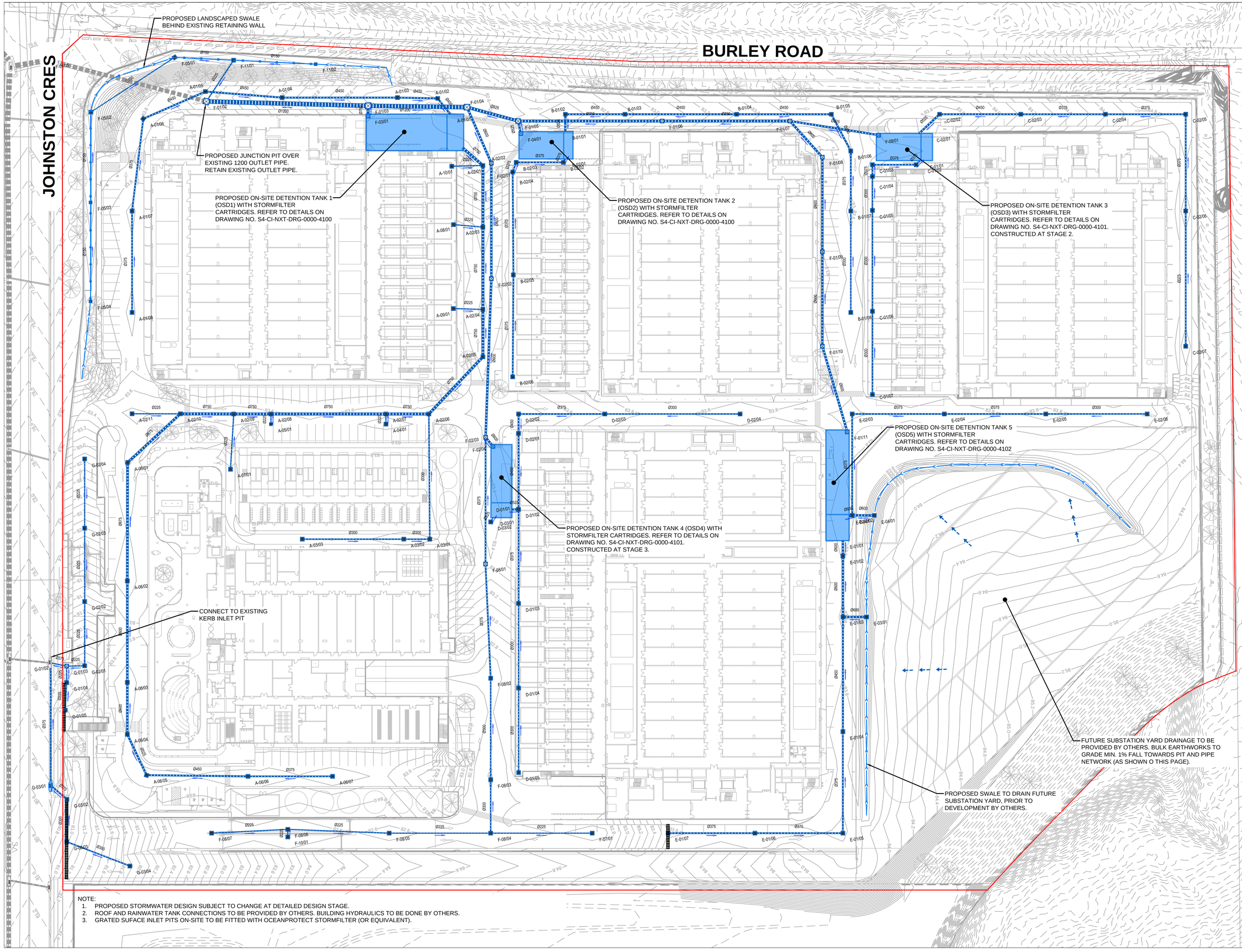

NOTE:
1. PROPOSED STORMWATER DESIGN SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.
2. ROOF AND RAINWATER TANK CONNECTIONS TO BE PROVIDED BY OTHERS. BUILDING HYDRAULICS TO BE DONE BY OTHERS.
3. GRATED SUFACE INLET PITS ON-SITE TO BE FITTED WITH OCEANPROTECT STORMFILTER (OR EQUIVALENT).

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NEXT DC DATA CENTRE

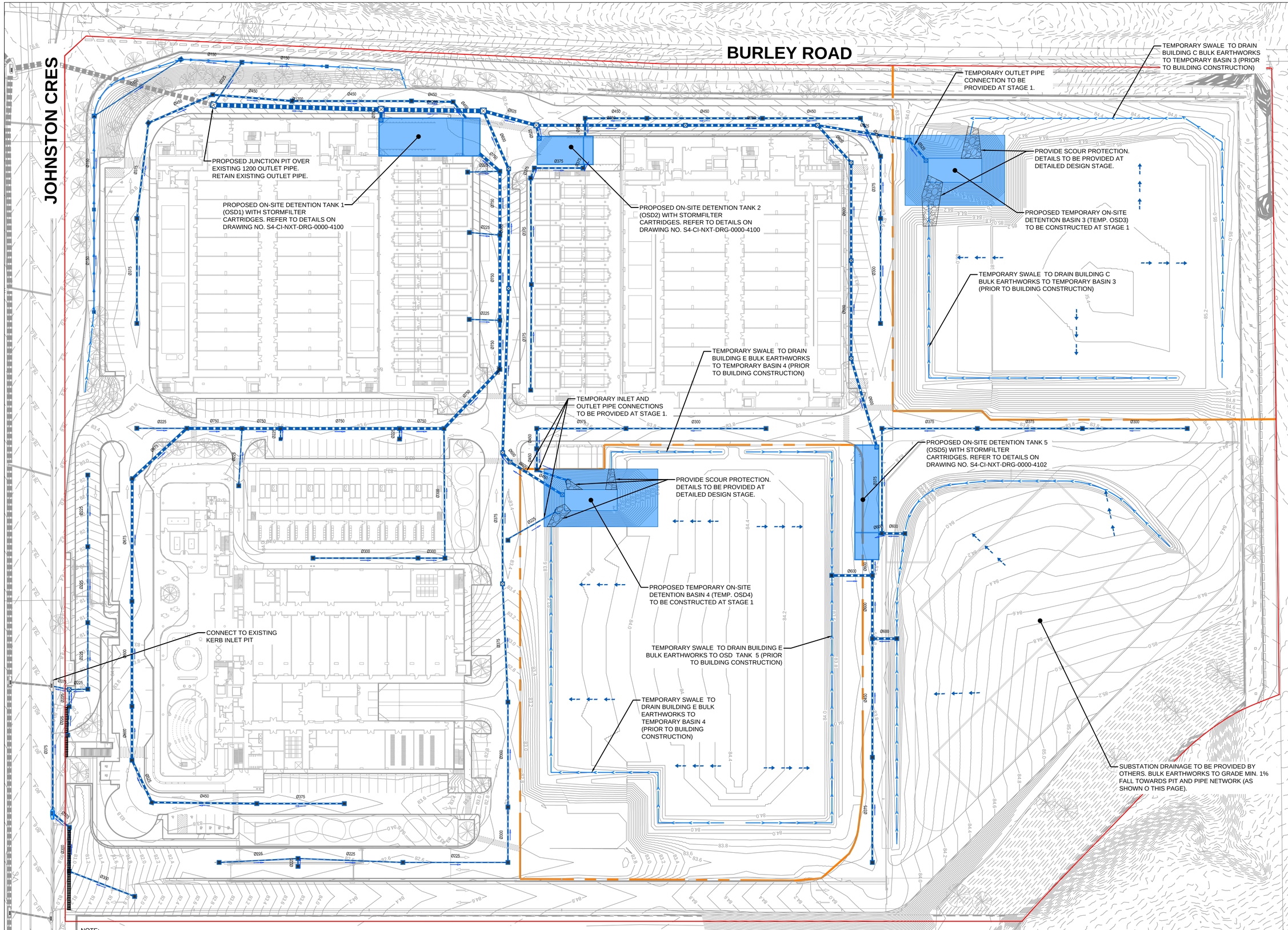
Drawing title
STORMWATER PLAN (ULTIMATE)

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-4001	2



NOTE:
1. PROPOSED STORMWATER DESIGN SUBJECT TO CHANGE AT DETAILED DESIGN STAGE.
2. ROOF AND RAINWATER TANK CONNECTIONS TO BE PROVIDED BY OTHERS. BUILDING HYDRAULICS TO BE DONE BY OTHERS.
3. GRATED SUFACE INLET PITS ON-SITE TO BE FITTED WITH OCEANPROTECT STORMFILTER (OR EQUIVALENT).

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	GC	GC

NOTE:
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2. DO NOT SCALE FROM DRAWINGS
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4. CHECK ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES
5. ENSURE COORDINATION WITH OTHER TRADES ON SITE.
6. ASL = ABOVE SLAB LEVEL

PRINCIPAL CONSULTANTS

Architect: HDR

Services: AURECON

Structural: TTW

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[Contractor / Consultant / Document Author]

TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site:	Stage:	NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

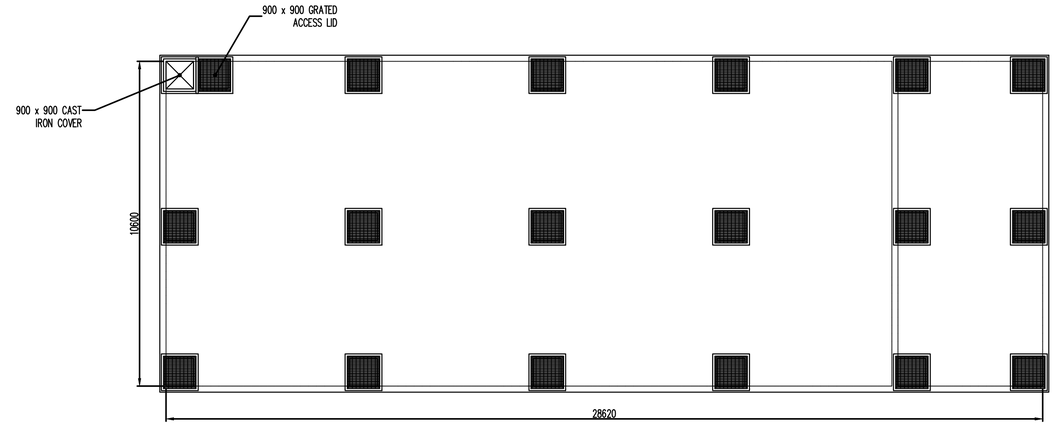
Drawing title
STORMWATER PLAN
(STAGE 1)

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

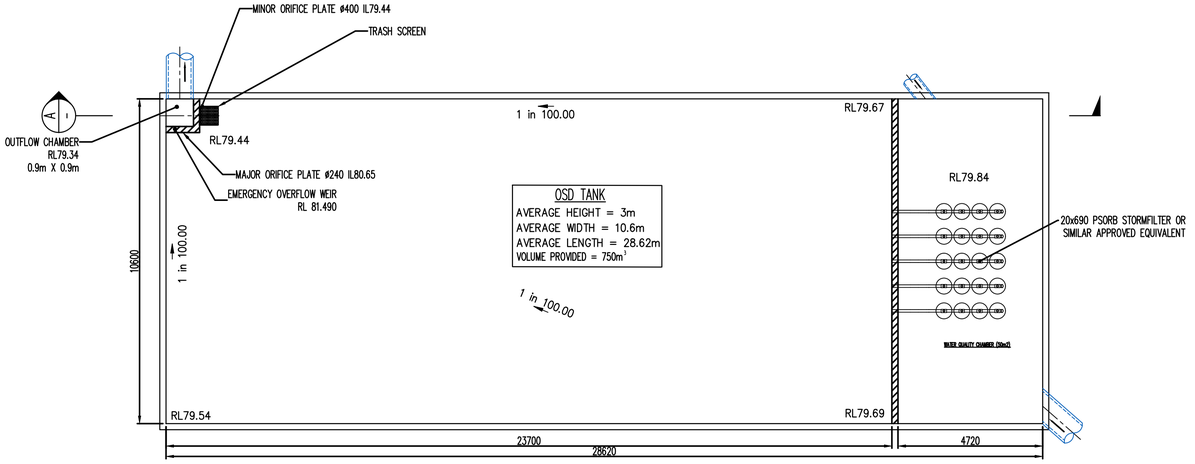
Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-4002	2



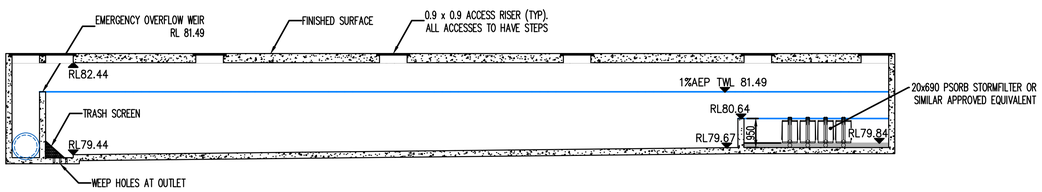
ON-SITE DETENTION TANK 1 - ROOF PLAN

SCALE 1:100



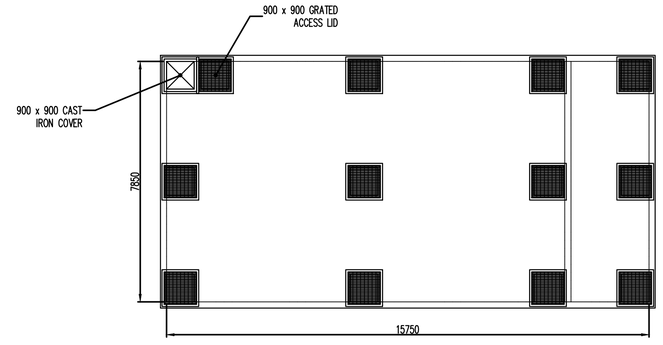
ON-SITE DETENTION TANK 1 - BASE PLAN

SCALE 1:100



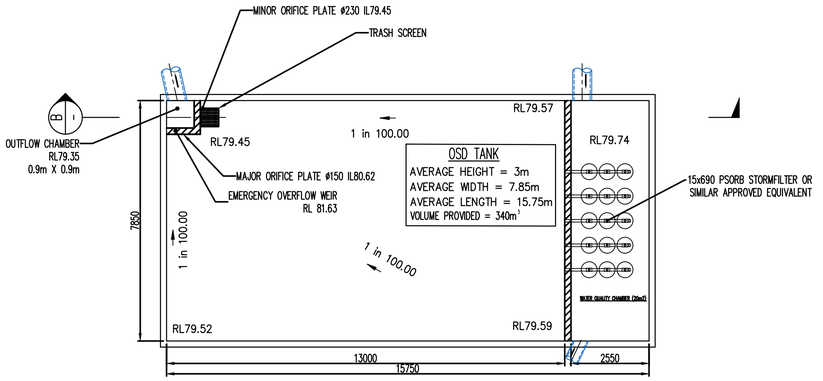
ON-SITE DETENTION TANK 1 - SECTION A

SCALE 1:100



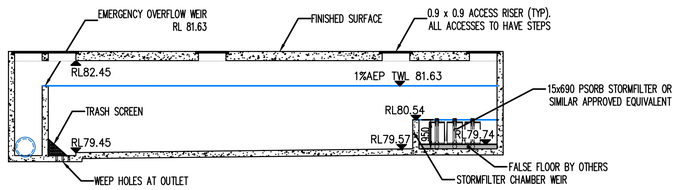
ON-SITE DETENTION TANK 2 - ROOF PLAN

SCALE 1:100



ON-SITE DETENTION TANK 2 - BASE PLAN

SCALE 1:100



ON-SITE DETENTION TANK 2 - SECTION B

SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

NOTE:
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PRINCIPAL CONSULTANTS

Architect: HDR

Services: AURECON

Structural: TTW

PRINCIPAL CONTRACTOR

CLIENT

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[Contractor / Consultant / Document Author]

TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site:	Stage:	NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

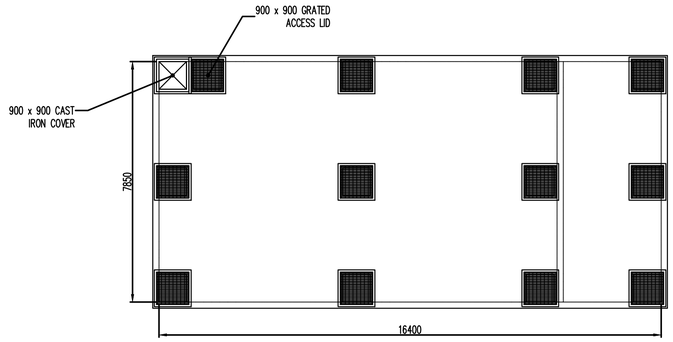
Drawing title
CONCEPT ON-SITE DETENTION DETAILS - SHEET 1

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

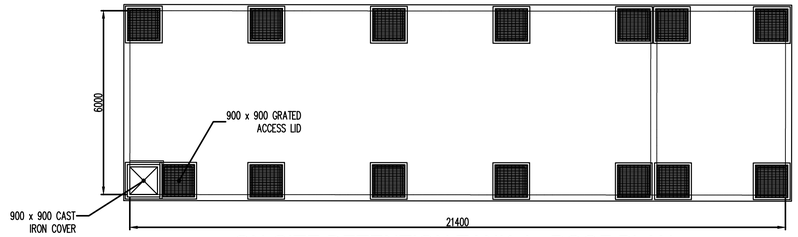
Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-4100	2



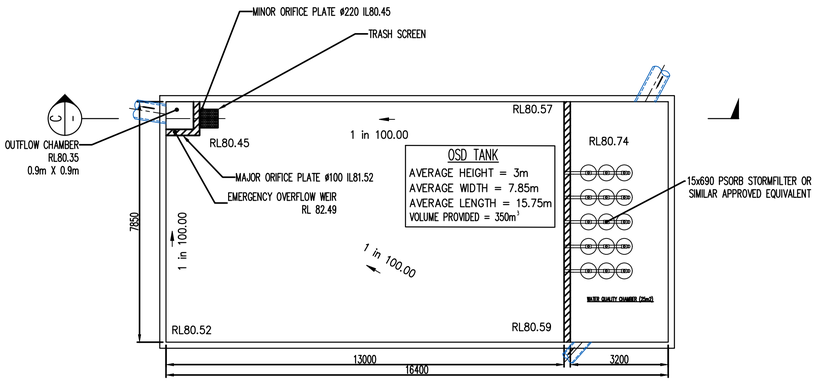
ON-SITE DETENTION TANK 3 - ROOF PLAN

SCALE 1:100



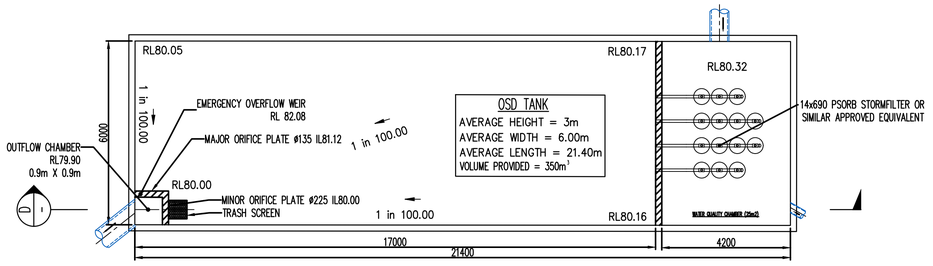
ON-SITE DETENTION TANK 4 - ROOF PLAN

SCALE 1:100



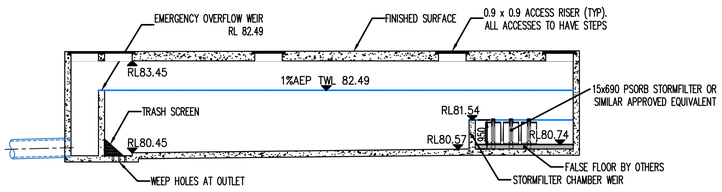
ON-SITE DETENTION TANK 3 - BASE PLAN

SCALE 1:100



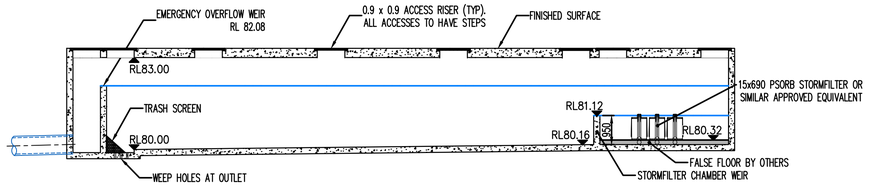
ON-SITE DETENTION TANK 4 - BASE PLAN

SCALE 1:100



ON-SITE DETENTION TANK 3 - SECTION C

SCALE 1:100



ON-SITE DETENTION TANK 4 - SECTION D

SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

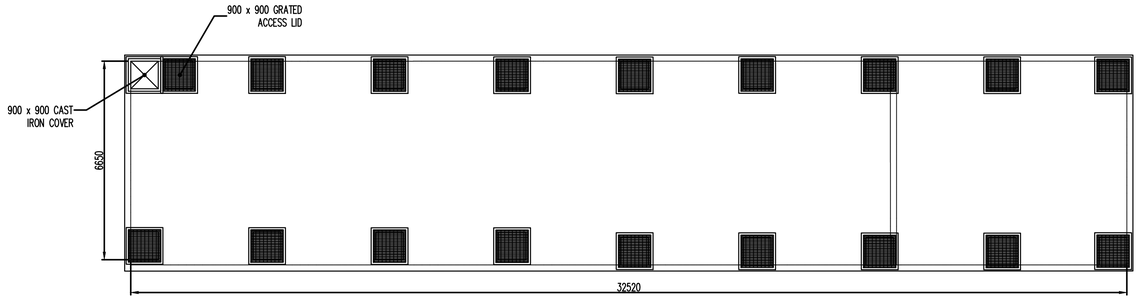
Drawing title
CONCEPT ON-SITE DETENTION DETAILS - SHEET 2

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

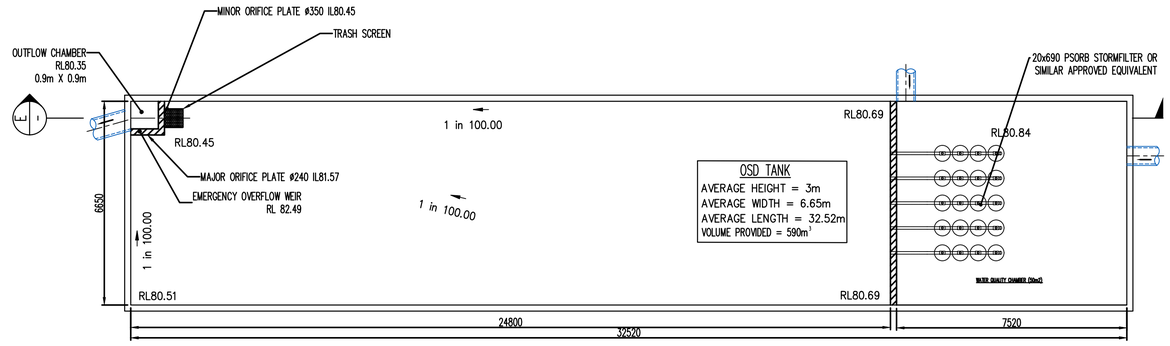
Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-4101	2



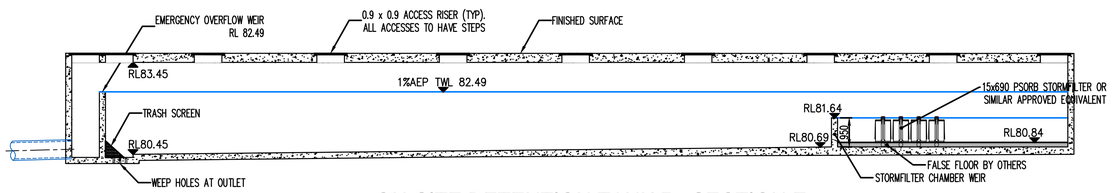
ON-SITE DETENTION TANK 5 - ROOF PLAN

SCALE 1:100



ON-SITE DETENTION TANK 5 - BASE PLAN

SCALE 1:100



ON-SITE DETENTION TANK 5 - SECTION E

SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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Drawing title
CONCEPT ON-SITE DETENTION DETAILS - SHEET 3

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-4102	2

PIT SCHEDULE

Pit Name	TYPE	EASTING	NORTHING	INTERNAL WD	LEN	INLET DIA	INV LEV	OUTLET DIA	INV LEV	PIT SETOUT RL	DEPTH	REMARKS
A-01/08	GSIP 900x900	298762.8	6254726	0.9	0.9			375	82.807	83.665	0.858	
A-01/07	GSIP 900x900	298767.3	6254756	0.9	0.9	375	82.507	375	82.487	83.665	1.178	
A-01/06	GSIP 900x900	298774.6	6254782	0.9	0.9	375	82.213	450	82.193	83.793	1.601	
A-01/05	GSIP 900x900	298793.9	6254787	0.9	0.9	450	81.992	450	81.972	83.5	1.528	
A-01/04	GSIP 900x900	298816.1	6254782	0.9	0.9	450	81.807	450	81.487	82.989	1.502	
A-01/03	GSIP 900x900	298849.8	6254777	0.9	0.9	450	80.941	450	80.921	82.431	1.51	
A-01/02	GSIP 900x900	298861.6	6254775	0.9	0.9	450	80.802	450	80.782	82.5	1.718	
A-01/01	DETENTION TANK	298864.5	6254770	0	0	450	80.723	600	79.656	82.61	2.954	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-02/11	GSIP 900x900	298758.4	6254696	0.9	0.9			225	82.322	83.469	1.147	
A-02/10	GSIP 900x900	298772.5	6254694	0.9	0.9	225	82.179	750	81.496	83.542	2.046	
A-02/09	GSIP 900x900	298788.1	6254692	0.9	0.9	750	81.417	750	81.397	83.52	2.123	
A-02/08	GSIP 900x900	298799	6254690	0.9	0.9	750	81.342	750	81.322	83.575	2.253	
A-02/07	GSIP 900x900	298832.6	6254685	0.9	0.9	750	81.153	750	81.133	83.52	2.387	
A-02/06	GSIP 900x900	298845.1	6254683	0.9	0.9	750	81.069	750	81.049	83.556	2.507	
A-02/05	GSIP 900x900	298863.4	6254698	0.9	0.9	750	80.933	750	80.913	83.352	2.439	
A-02/04	GSIP 900x900	298865.5	6254712	0.9	0.9	750	80.843	750	80.823	83.275	2.452	
A-02/03	GSIP 900x900	298869.1	6254736	0.9	0.9	750	80.701	750	80.681	83.253	2.572	
A-02/02	GSIP 900x900	298871.8	6254754	0.9	0.9	750	80.59	750	80.57	82.614	2.044	
A-02/01	DETENTION TANK	298866.9	6254760	0	0	750	80.531	600	79.8	82.75	2.95	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-03/03	GSIP 900x900	298802.6	6254652	0.9	0.9			300	82.741	83.9	1.159	
A-03/02	GSIP 900x900	298832.3	6254648	0.9	0.9	300	82.441	300	82.421	83.85	1.429	
A-03/01	GSIP 900x900	298839.9	6254647	0.9	0.9	300	82.344	300	82.324	83.888	1.564	
A-02/06	GSIP 900x900	298845.1	6254683	0.9	0.9	300	81.954			83.556	2.507	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-04/01	GSIP 900x900	298832.2	6254682	0.9	0.9			225	82.769	83.46	0.691	
A-02/07	GSIP 900x900	298832.6	6254685	0.9	0.9	225	82.739			83.52	2.387	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-05/01	GSIP 600x600	298798.5	6254687	0.6	0.6			225	82.821	83.515	0.694	
A-02/08	GSIP 900x900	298799	6254690	0.9	0.9	225	82.791			83.575	2.253	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-06/07	GSIP 900x900	298801.1	6254582	0.9	0.9			375	82.787	83.645	0.858	
A-06/06	GSIP 900x900	298776.4	6254585	0.9	0.9	375	82.537	450	82.517	83.62	1.103	
A-06/05	GSIP 900x900	298746.8	6254590	0.9	0.9	450	82.218	525	82.198	83.62	1.422	
A-06/04	GSIP 900x900	298742.9	6254603	0.9	0.9	525	82.104	600	82.084	83.693	1.609	
A-06/03	GSIP 900x900	298745.2	6254618	0.9	0.9	600	82.007	600	81.987	83.62	1.633	
A-06/02	GSIP 900x900	298749.7	6254648	0.9	0.9	600	81.837	675	81.817	83.62	1.803	
A-06/01	GSIP 900x900	298754.9	6254682	0.9	0.9	675	81.642	675	81.622	83.584	1.962	
A-02/10	GSIP 900x900	298772.5	6254694	0.9	0.9	675	81.516			83.542	2.046	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-07/01	GSIP 900x900	298784.7	6254676	0.9	0.9			225	82.741	83.903	1.162	
A-02/09	GSIP 900x900	298788.1	6254692	0.9	0.9	225	82.372			83.52	2.123	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-08/01	GSIP 900x900	298860.6	6254738	0.9	0.9			225	82.339	83.643	1.304	
A-02/03	GSIP 900x900	298869.1	6254736	0.9	0.9	225	81.962			83.253	2.572	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-09/01	GSIP 900x900	298856.9	6254713	0.9	0.9			225	82.358	83.643	1.285	
A-02/04	GSIP 900x900	298865.5	6254712	0.9	0.9	225	82.003			83.275	2.452	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
A-10/01	GSIP 900x900	298862.7	6254755	0.9	0.9			225	81.708	83.648	1.94	
A-02/02	GSIP 900x900	298871.8	6254754	0.9	0.9	225	81.432			82.614	2.044	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
B-01/08	GSIP 900x900	298972.9	6254695	0.9	0.9			300	82.845	83.624	0.779	
B-01/07	GSIP 900x900	298977.4	6254724	0.9	0.9	300	82.545	375	82.516	83.574	1.058	
B-01/06	GSIP 900x900	298980	6254742	0.9	0.9	375	82.339	450	82.198	83.585	1.388	
B-01/05	GSIP 900x900	298975.9	6254753	0.9	0.9	450	82.075	450	82.055	83.555	1.5	
B-01/04	GSIP 900x900	298948.2	6254757	0.9	0.9	450	81.775	450	81.755	83.303	1.548	
B-01/03	GSIP 900x900	298915.6	6254762	0.9	0.9	450	81.425	450	81.405	82.859	1.454	
B-01/02	GSIP 900x900	298898.2	6254765	0.9	0.9	450	81.229	525	81.166	82.623	1.457	
B-01/01	DETENTION TANK	298897.4	6254760	0	0	525	81.13	525	79.488	82.8	3.312	
Z-OSD3-01/01	DETENTION TANK	298888	6254758	0	0	525	79.42			79.4	0	setout level to pit sump level
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
B-02/06	GSIP 900x900	298871.3	6254691	0.9	0.9			375	82.334	83.644	1.31	
B-02/05	GSIP 900x900	298875.9	6254720	0.9	0.9	375	82.033	375	82.013	83.646	1.633	
B-02/04	GSIP 900x900	298880.1	6254749	0.9	0.9	375	81.721	375	81.498	83.644	2.146	
B-02/03	GSIP 900x900	298881.7	6254753	0.9	0.9	375	81.457	375	81.437	82.782	1.346	
B-02/02	GSIP 900x900	298895.5	6254751	0.9	0.9	375	81.298	375	81.278	82.793	1.515	
B-02/01	DETENTION TANK	298896.2	6254752	0	0	375	81.265	375	79.52	82.782	3.261	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
C-01/07	GSIP 900x900	298975.8	6254671	0.9	0.9			300	83.614	84.845	1.231	
C-01/06	GSIP 900x900	298979.3	6254694	0.9	0.9	300	83.379	300	83.359	84.839	1.48	
C-01/05	GSIP 900x900	298983.7	6254723	0.9	0.9	300	83.06	300	83.04	84.831	1.79	
C-01/04	GSIP 900x900	298985	6254732	0.9	0.9	300	82.953	375	82.575	84.828	2.254	
C-01/03	GSIP 900x900	298985.7	6254737	0.9	0.9	375	82.528	375	82.508	83.83	1.323	
C-01/02	GSIP 900x900	298999.8	6254735	0.9	0.9	375	82.365	375	82.345	83.976	1.631	
C-01/01	DETENTION TANK	299000.6	6254736	0	0	375	82.331	450	80.656	83.954	3.297	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
C-02/07	GSIP 900x900	299069.3	6254670	0.9	0.9			375	84.014	84.872	0.858	
C-02/06	GSIP 900x900	299075.3	6254710	0.9	0.9	375	83.614	375	83.594	84.872	1.278	
C-02/05	GSIP 900x900	299079.5	6254738	0.9	0.9	375	83.308	375	83.288	84.829	1.541	
C-02/04	GSIP 900x900	299056	6254741	0.9	0.9	375	83.051	375	83.031	84.588	1.557	
C-02/03	GSIP 900x900	299031.3	6254745	0.9	0.9	375	82.781	450	82.653	84.115	1.462	
C-02/02	GSIP 900x900	299007.6	6254749	0.9	0.9	450	82.298	525	82.278	83.75	1.472	
C-02/01	DETENTION TANK	299003.8	6254743	0	0	525	82.233	525	80.667	83.997	3.331	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
D-01/05	GSIP 900x900	298855.6	6254575	0.9	0.9			300	82.412	83.643	1.231	
D-01/04	GSIP 900x900	298859.4	6254599	0.9	0.9	300	82.162	300	82.142	83.643	1.501	
D-01/03	GSIP 900x900	298863.1	6254624	0.9	0.9	300	81.892	375	81.872	83.643	1.771	
D-01/02	GSIP 900x900	298867.2	6254652	0.9	0.9	375	81.594	525	81.574	83.643	2.069	
D-01/01	DETENTION TANK	298865.1	6254652	0	0	525	81.554	375	80.065	83.618	3.553	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
D-02/04	GSIP 900x900	298936.1	6254670	0.9	0.9			300	82.751	83.731	0.98	
D-02/03	GSIP 900x900	298896.6	6254676	0.9	0.9	300	82.351	375	82.331	83.699	1.369	
D-02/02	GSIP 900x900	298871.4	6254679	0.9	0.9	375	82.076	450	82.036	83.419	1.383	setout level to finished surface tin at pit centre
D-02/01	GSIP 900x900	298870.5	6254674	0.9	0.9	450	81.978	450	81.958	83.643	1.685	
D-01/02	GSIP 900x900	298867.2	6254652	0.9	0.9	450	81.734			83.643	2.069	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
D-03/02	GSIP 900x900	298858.5	6254649	0.9	0.9			225	82.198	82.198	0	setout level to pit sump level
D-03/01	DETENTION TANK	298859.4	6254650	0	0	225	82.182	225	80.084	80.084	0	setout level to pit sump level
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
E-01/07	GSIP 900x900	298896.7	6254550	0.9	0.9			375	82.264	83.572	1.308	
E-01/06	GSIP 900x900	298922.1	6254547	0.9	0.9	375	82.007	375	81.987	83.6	1.613	
E-01/05	GSIP 900x900	298947.8	6254543	0.9	0.9	375	81.727	375	81.707	83.67	1.963	
E-01/04	GSIP 900x900	298952.2	6254572	0.9	0.9	375	81.407	450	81.387	83.72	2.333	
E-01/03	GSIP 900x900	298957.3	6254606	0.9	0.9	450	81.048	600	81.028	83.778	2.749	
E-01/02	GSIP 900x900	298959.9	6254624	0.9	0.9	600	80.938	600	80.918	83.787	2.869	
E-01/01	DETENTION TANK	298960.6	6254628	0	0	600	80.895	600	80.543	83.764	3.221	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
E-02/06	GSIP 900x900	299055.1	6254652	0.9	0.9			300	83.034	83.813	0.779	
E-02/05	GSIP 900x900	299025.5	6254656	0.9	0.9	300	82.735	375	82.705	83.763	1.058	
E-02/04	GSIP 900x900	298995.8	6254661	0.9	0.9	375	82.405	375	82.385	83.713	1.328	
E-02/03	GSIP 900x900	298968.9	6254665	0.9	0.9	375	82.112	375	82.092	83.676	1.584	
E-02/02	GSIP 900x900	298964.4	6254635	0.9	0.9	375	81.793	600	81.677	83.783	2.106	
E-02/01	DETENTION TANK	298963.4	6254635	0	0	600	81.671	600	80.51	83.763	3.254	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
E-03/01	GSIP 900x900	298964.2	6254605	0.9	0.9			600	81.779	83.278	1.499	
E-01/03	GSIP 900x900	298957.3	6254606	0.9	0.9	600	81.744			83.778	2.749	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
E-04/01	GSIP 900x900	298970.9	6254634	0.9	0.9			600	81.729	83.229	1.5	
E-02/02	GSIP 900x900	298964.4	6254635	0.9	0.9	600	81.697			83.783	2.106	

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Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
PIT SCHEDULE SHEET 01

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
NA	A1	

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PIT SCHEDULE

Pit Name	TYPE	EASTING	NORTHING	INTERNAL WD	LEN	INLET DIA	INV LEV	OUTLET DIA	INV LEV	PIT SETOUT RL	DEPTH	REMARKS
F-01/11	JP 900x900	298966.7	6254660	0.9	0.9			600	80.35	83.725	3.375	
F-01/10	JP 900x900	298963.1	6254686	0.9	0.9	600	80.218	600	80.198	83.842	3.644	setout level to finished surface tin at pit centre
F-01/09	JP 900x900	298967.3	6254714	0.9	0.9	600	80.059	600	80.039	83.802	3.764	
F-01/08	JP 900x900	298971.4	6254741	0.9	0.9	600	79.899	600	79.879	83.764	3.886	setout level to finished surface tin at pit centre
F-01/07	JP 900x900	298963.5	6254753	0.9	0.9	600	79.807	750	79.787	83.534	3.747	setout level to finished surface tin at pit centre
F-01/06	JP 900x900	298926.2	6254759	0.9	0.9	750	79.598	750	79.578	83.047	3.469	
F-01/05	JUNCTION PIT - 1200x1200	298884.1	6254765	1.2	1.2	750	79.312	825	79.292	82.727	3.435	setout level to finished surface tin at pit centre
F-01/04	JUNCTION PIT - 1500x1500	298869.7	6254771	1.5	1.5	825	79.214	1200	79.105	82.568	3.463	
F-01/03	JUNCTION PIT - 1500x1500	298840.9	6254776	1.5	1.5	1200	78.959	1200	78.939	82.523	3.584	setout level to finished surface tin at pit centre
F-01/02	JUNCTION PIT - 1500x1500	298793.8	6254784	1.5	1.5	1200	78.699	1200	74.38	83.481	9.101	setout level to finished surface tin at pit centre
F-01/01	EXISTING STRUCTURE	298749.5	6254803	0.835	0.93	1200	72.91			76.379	3.469	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-02/04	JP 900x900	298862.4	6254671	0.9	0.9			600	79.9	83.455	3.555	
F-02/03	JP 900x900	298860.7	6254674	0.9	0.9	600	79.883	600	79.66	83.479	3.819	
F-02/02	JP 900x900	298869.3	6254720	0.9	0.9	600	79.426	600	79.406	83.37	3.965	
F-02/01	JP 900x900	298874.4	6254754	0.9	0.9	600	79.235	600	79.215	82.706	3.491	
F-01/04	JUNCTION PIT - 1500x1500	298869.7	6254771	1.5	1.5	600	79.125			82.568	3.463	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-03/01	JP 900x900	298840.4	6254773	0.9	0.9			750	79.34	82.8	3.46	
F-01/03	JUNCTION PIT - 1500x1500	298840.9	6254776	1.5	1.5	750	79.31			82.523	3.584	setout level to finished surface tin at pit centre
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-04/01	JP 900x900	298884.3	6254761	0.9	0.9			525	79.35	82.765	3.415	
F-01/05	JUNCTION PIT - 1200x1200	298884.1	6254765	1.2	1.2	525	79.312			82.727	3.435	setout level to finished surface tin at pit centre
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-05/04	GSIP 600x600	298751.2	6254731	0.6	0.6			150	82.379	82.835	0.456	
F-05/03	GSIP 600x600	298755.5	6254760	0.6	0.6	150	82.087	150	82.067	82.636	0.569	
F-05/02	GSIP 900x900	298759.6	6254786	0.9	0.9	150	81.8	150	81.78	82.457	0.676	
F-05/01	GSIP 900x900	298786.5	6254799	0.9	0.9	150	81.484	150	81.464	82.229	0.765	
F-11/01	GSIP 900x900	298803.6	6254795	0.9	0.9	150	81.29			82.11	0.84	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-07/01	GSIP 900x900	298874.5	6254554	0.9	0.9			225	81.508	82.656	1.148	
F-08/04	GSIP 900x900	298844.8	6254558	0.9	0.9	225	81.208			82.606	1.695	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-08/07	GSIP 900x900	298763.2	6254570	0.9	0.9			225	81.796	82.493	0.697	
F-08/06	GSIP 900x900	298785.7	6254568	0.9	0.9	225	81.571	225	81.551	82.528	0.978	
F-08/05	GSIP 900x900	298815.2	6254563	0.9	0.9	225	81.251	225	81.231	82.556	1.325	
F-08/04	GSIP 900x900	298844.8	6254558	0.9	0.9	225	80.931	300	80.911	82.606	1.695	
F-08/03	GSIP 900x900	298847.2	6254574	0.9	0.9	300	80.753	300	80.733	82.585	1.852	
F-08/02	GSIP 900x900	298851.6	6254603	0.9	0.9	300	80.433	375	80.413	82.635	2.222	
F-08/01	JP 900x900	298855.1	6254637	0.9	0.9	375	80.075	375	80.055	83.438	3.383	
F-02/03	JP 900x900	298860.7	6254674	0.9	0.9	375	79.68			83.479	3.819	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-09/01	JP 900x900	298988.7	6254745	0.9	0.9			525	80.35	82.375	2.025	
F-01/07	JP 900x900	298963.5	6254753	0.9	0.9	525	80.086			83.534	3.747	setout level to finished surface tin at pit centre
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-10/01	GSIP 900x900	298785.4	6254566	0.9	0.9			225	81.817	82.529	0.711	
F-08/06	GSIP 900x900	298785.7	6254568	0.9	0.9	225	81.795			82.528	0.978	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
F-11/02	GSIP 600x600	298827.4	6254791	0.6	0.6			150	81.754	82.209	0.454	
F-11/01	GSIP 900x900	298803.6	6254795	0.9	0.9	150	81.511	225	81.27	82.11	0.84	
F-01/02	JUNCTION PIT - 1500x1500	298793.8	6254784	1.5	1.5	225	81.124			83.481	9.101	setout level to finished surface tin at pit centre
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
G-01/05	GSIP 900x900	298725.9	6254613	0.9	0.9			225	79.135	80.377	1.242	
G-01/04	GSIP 900x900	298727.5	6254621	0.9	0.9	225	78.901	225	78.881	80.172	1.291	
G-01/03	JP 900x900	298728.2	6254626	0.9	0.9	225	78.832	225	78.593	80.51	1.917	
G-01/02	ROAD PIT	298723.7	6254627	0.835	0.93	225	78.544	375	78.35	79.734	1.384	
G-01/01	ROAD PIT	298711.7	6254630	0.835	0.93	375	78.22			79.761	2.871	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
G-02/04	GSIP 900x900	298742.6	6254685	0.9	0.9			225	81.661	82.829	1.168	
G-02/03	GSIP 900x900	298739.5	6254665	0.9	0.9	225	80.864	225	80.828	81.996	1.168	
G-02/02	GSIP 900x900	298736.3	6254644	0.9	0.9	225	79.981	225	79.945	81.113	1.168	
G-02/01	GSIP 900x900	298733.5	6254625	0.9	0.9	225	79.208	225	79.188	80.339	1.152	
G-01/03	JP 900x900	298728.2	6254626	0.9	0.9	225	79.134			80.51	1.917	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
G-03/04	GSIP 900x900	298737.9	6254564	0.9	0.9			300	80.624	81.87	1.246	
G-03/03	GSIP 900x900	298720.5	6254571	0.9	0.9	300	79.767	300	79.724	80.977	1.253	
G-03/02	GSIP 900x900	298722.4	6254587	0.9	0.9	300	79.551	375	79.249	80.79	1.541	
G-03/01	ROAD PIT	298718.3	6254591	0.835	0.93	375	79.03	375	79.01	80.385	1.376	
G-01/02	ROAD PIT	298723.7	6254627	0.835	0.93	375	78.432			79.734	1.384	
NOTE:												
1. xy setout to pit centre												
2. setout level to pit cover level												
3. some setout xy or z levels have special setout data. See individual manhole remarks												

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	1	INITIAL RELEASE	JH	CG	GC

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TTW Structural Civil Traffic Façade
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Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
PIT SCHEDULE SHEET 02

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

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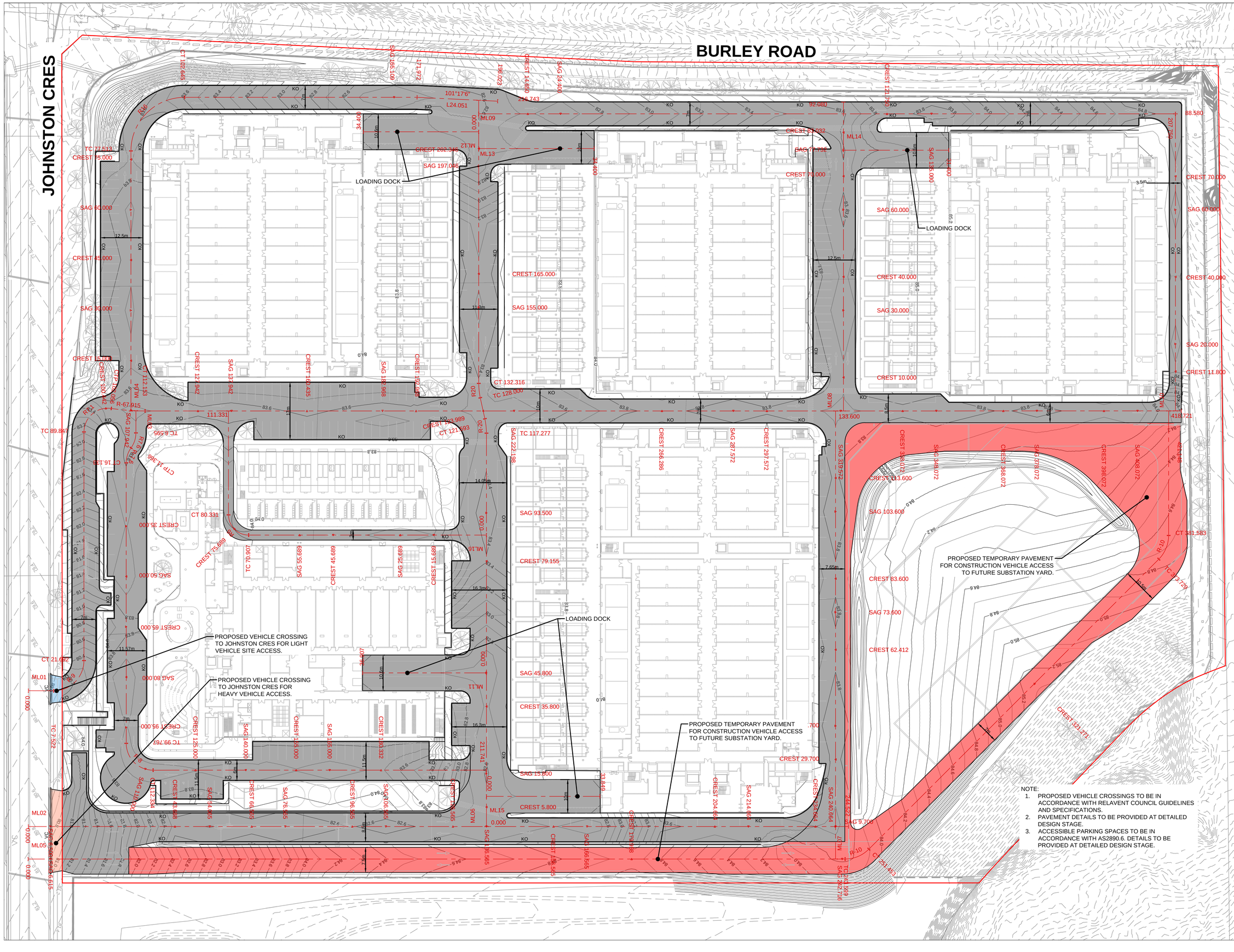

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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{Contractor / Consultant / Document Author}

TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site:	Stage:	NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
ROADWORKS PLAN
(ULTIMATE)

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-5001	2

BURLEY ROAD

JOHNSTON CRES

LOADING DOCK

LOADING DOCK

PROPOSED VEHICLE CROSSING TO JOHNSTON CRES FOR LIGHT VEHICLE SITE ACCESS.

PROPOSED VEHICLE CROSSING TO JOHNSTON CRES FOR HEAVY VEHICLE ACCESS.

PROPOSED TEMPORARY PAVEMENT FOR CONSTRUCTION VEHICLE ACCESS TO FUTURE SUBSTATION YARD.

PROPOSED TEMPORARY PAVEMENT FOR CONSTRUCTION VEHICLE ACCESS TO FUTURE SUBSTATION YARD.

NOTE:
1. PROPOSED VEHICLE CROSSINGS TO BE IN ACCORDANCE WITH RELAVENT COUNCIL GUIDELINES AND SPECIFICATIONS.
2. PAVEMENT DETAILS TO BE PROVIDED AT DETAILED DESIGN STAGE.
3. ACCESSIBLE PARKING SPACES TO BE IN ACCORDANCE WITH AS2890.6. DETAILS TO BE PROVIDED AT DETAILED DESIGN STAGE.

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

NOTE:
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2. DO NOT SCALE FROM DRAWINGS
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4. CHECK ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES
5. ENSURE COORDINATION WITH OTHER TRADES ON SITE.
6. ASL = ABOVE SLAB LEVEL

PRINCIPAL CONSULTANTS

Architect: HDR

Services: AURECON

Structural: TTW

PRINCIPAL CONTRACTOR

CLIENT

NEXTDC

NEXTDC
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Key Plan

Site:	Stage:	NEXTDC Project Number:

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16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

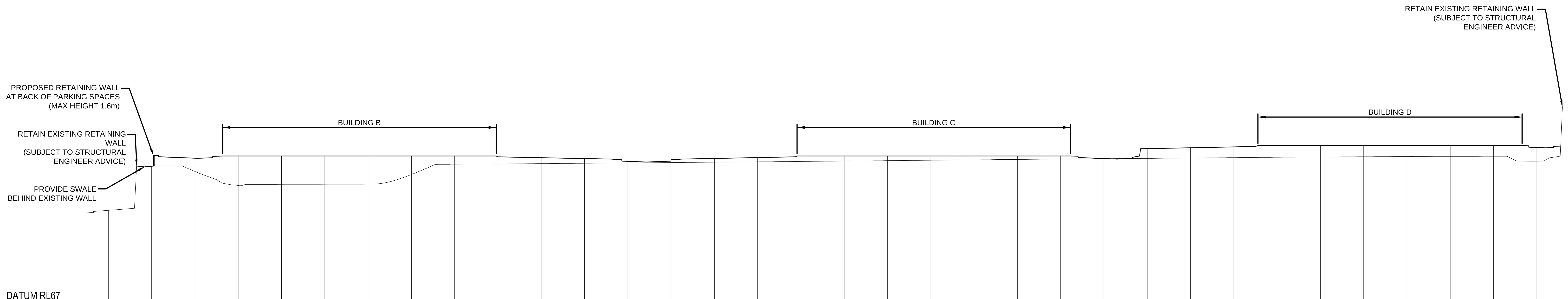
Drawing title
ROADWORKS PLAN
(STAGE 1)

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
1:500	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-5002	2



DATUM RL67

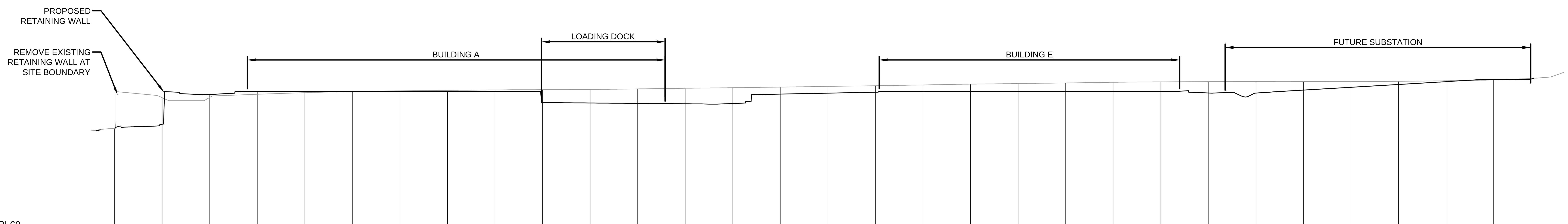
DESIGN SURFACE LEVELS		82.816	83.744	84.000	84.000	84.000	84.000	84.000	84.000	83.899	83.799	83.699
EXISTING SURFACE LEVELS	77.721	82.844	82.219	80.586	80.723	80.733	80.743	81.856	83.044	83.080	83.117	83.157
HEIGHT DIFF.	0.000	-0.028	1.526	3.414	3.277	3.267	3.257	2.144	0.956	0.819	0.682	0.542
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000

DESIGN SURFACE LEVELS	83.383	83.560	83.713	83.813	84.000	84.000	84.000	84.000	84.000	84.000	84.000	83.703
EXISTING SURFACE LEVELS	83.197	83.239	83.280	83.322	83.367	83.412	83.458	83.505	83.551	83.598	83.647	83.686
HEIGHT DIFF.	0.185	0.321	0.433	0.491	0.633	0.588	0.542	0.495	0.449	0.402	0.353	0.017
CHAINAGES	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000

DESIGN SURFACE LEVELS	84.851	84.951	85.051	85.200	85.200	85.200	85.200	85.200	85.200	84.980	
EXISTING SURFACE LEVELS	83.721	83.760	83.808	83.849	83.883	83.912	83.938	83.957	83.962	83.402	89.560
HEIGHT DIFF.	1.129	1.190	1.242	1.351	1.317	1.288	1.262	1.243	1.238	1.578	0.000
CHAINAGES	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000

SECTION A

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250



DATUM RL69

ULT. DESIGN SURFACE LEVELS		80.526	83.653	84.000	84.000	84.000	84.000	84.000	84.000	82.799	82.759	82.719	82.675	82.703	83.694
EXISTING SURFACE LEVELS	80.099	83.320	83.338	83.676	83.843	83.980	84.038	84.086	84.134	84.161	84.181	84.242	84.309	84.369	84.433
HEIGHT DIFFERENCE (EXI. TO ULT. DES.)	0.000	-2.793	0.315	0.324	0.157	0.020	-0.038	-0.086	-0.134	-1.362	-1.422	-1.523	-1.634	-1.665	-0.739
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000

ULT. DESIGN SURFACE LEVELS	83.794	83.894	84.000	84.000	84.000	84.000	84.000	84.000	83.813	83.805	84.117	84.412	84.706	85.004	85.226
EXISTING SURFACE LEVELS	84.501	84.576	84.658	84.744	84.805	84.869	84.937	84.980	85.006	85.025	85.024	85.011	85.040	85.094	85.196
HEIGHT DIFFERENCE (EXI. TO ULT. DES.)	-0.707	-0.682	-0.658	-0.744	-0.805	-0.869	-0.937	-0.980	-1.193	-1.220	-0.907	-0.599	-0.334	-0.089	0.029
CHAINAGES	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000

SECTION B

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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Architect HDR
Services AURECON
Structural TTW

PRINCIPAL CONTRACTOR

CLIENT
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NEXTDC
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[Contractor / Consultant / Document Author]
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612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

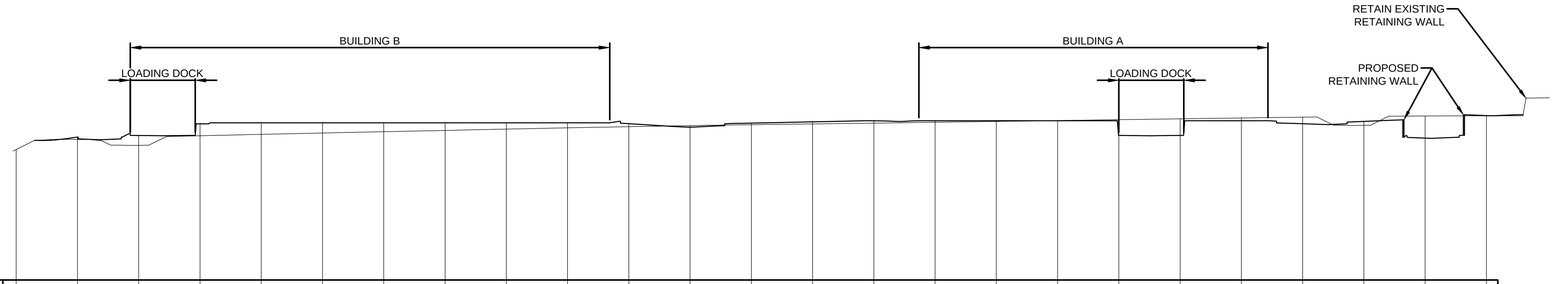
Drawing title
SITEWORKS SECTIONS
SHEET 1

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	**Date**
CG	21/03/2024

Scale: AS SHOWN | Sheet: A1 | File Name:

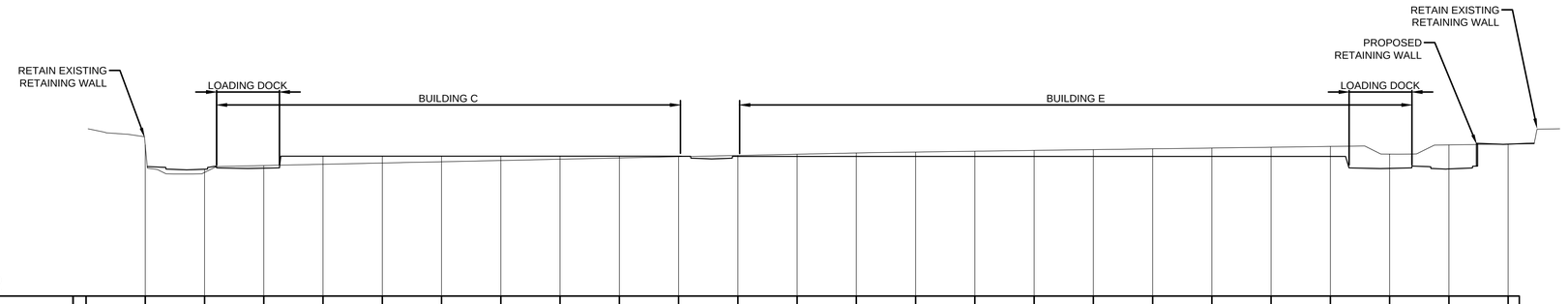
Drawing Number	Rev
S4-CI-NXT-DRG-0000-6000	2



DATUM RL71																									
DESIGN SURFACE LEVELS		82.661	82.791	83.744	83.828	83.828	83.828	83.828	83.828	83.828	83.757	83.470	83.807	83.907	83.993	84.000	84.000	84.000	82.800	82.797	84.000	83.750	83.944	82.579	84.415
EXISTING SURFACE LEVELS	81.643	82.466	81.990	82.773	82.884	82.991	83.098	83.206	83.314	83.420	83.511	83.598	83.673	83.737	83.803	83.870	83.940	84.010	84.083	84.157	84.224	84.289	83.620	84.380	84.403
HEIGHT DIFF.	0.000	0.195	0.802	0.971	0.944	0.837	0.730	0.622	0.514	0.408	0.246	-0.128	0.134	0.169	0.190	0.130	0.060	-0.010	-1.283	-1.360	-0.224	-0.539	0.323	-1.801	0.012
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000

SECTION C

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250



DATUM RL72																									
DESIGN SURFACE LEVELS			82.692	82.775	83.784	83.784	83.784	83.784	83.784	83.784	83.784	83.768	83.766	83.766	83.766	83.766	83.766	83.766	83.766	83.766	83.766	83.766	83.766	82.762	82.714	84.803
EXISTING SURFACE LEVELS	84.739	82.415	83.000	83.107	83.214	83.320	83.426	83.533	83.638	83.744	83.848	83.953	84.057	84.138	84.206	84.272	84.339	84.407	84.474	84.542	84.611	83.968	84.740	84.802	
HEIGHT DIFFERENCE	-0.000	0.277	-0.225	0.677	0.570	0.464	0.358	0.251	0.146	0.040	-0.080	-0.187	-0.291	-0.372	-0.440	-0.506	-0.573	-0.641	-0.708	-0.776	-0.845	-1.206	-2.026	0.000	
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000

SECTION D

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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Key Plan

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Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

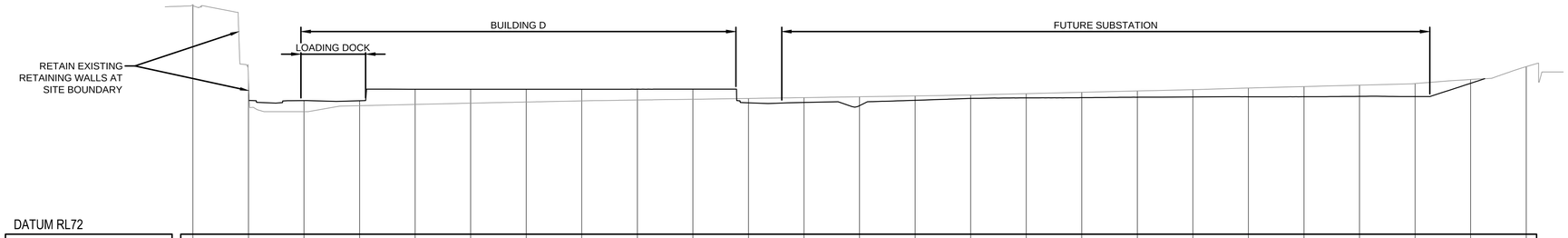
Drawing title
SITEWORKS SECTIONS
SHEET 2

Drawing Status:
NEXT DC DATA CENTRE
DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
AS SHOWN	A1	

Drawing Number	Rev
S4-CI-NXT-DRG-0000-6001	2



DATUM RL72																									
ULT. DESIGN SURFACE LEVELS			83.999	83.985	85.017	85.021	85.021	85.021	85.021	85.022	83.801	83.834	83.546	84.024	84.190	84.244	84.262	84.302	84.322	84.343	84.345	84.380	84.358	85.553	
EXISTING SURFACE LEVELS	92.610	85.948	83.000	83.541	83.656	83.769	83.871	83.972	84.049	84.120	84.192	84.267	84.343	84.420	84.488	84.619	84.741	84.863	84.987	85.126	85.258	85.382	85.527	85.894	87.052
HEIGHT DIFFERENCE (EXI. TO ULT. DES.)	-0.091	0.000	0.999	0.443	1.361	1.252	1.150	1.050	0.972	0.902	-0.391	-0.433	-0.797	-0.397	-0.308	-0.376	-0.480	-0.561	-0.665	-0.783	-0.913	-1.003	-1.170	-0.340	0.000
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000

SECTION E

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

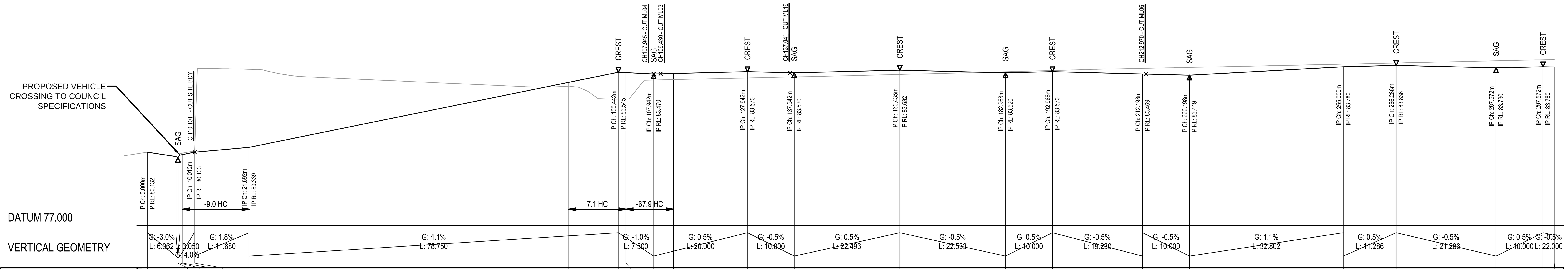
Drawing title
SITEWORKS SECTIONS
SHEET 3

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale:	Sheet:	File Name:
AS SHOWN	A1	

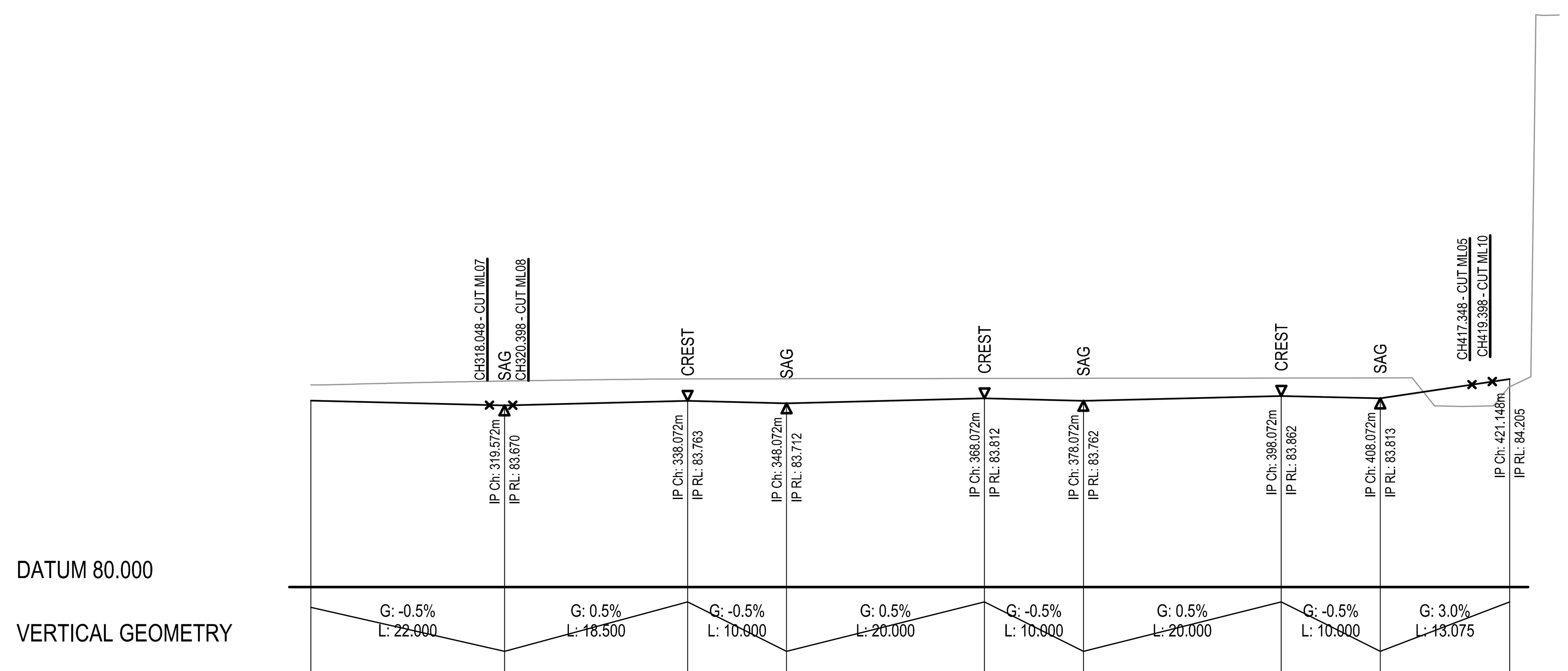
Drawing Number	Rev
S4-CI-NXT-DRG-0000-6002	2



DESIGN LEVELS	80.132	79.951	79.911	80.011	80.033	80.133	80.339	83.114	83.545	83.529	83.470	83.491
EXISTING LEVELS	80.132	79.951	79.911	80.071	80.094	80.186	83.668	82.951	82.395	82.402	83.213	83.233
LEVEL DIFFERENCE	0.001	-0.000	-0.000	-0.061	-0.061	-0.054	-3.329	0.162	1.150	1.127	0.257	0.258
CHAINAGE	0.000	6.062	6.512	6.962	7.522	10.012	21.692	89.847	100.442	102.056	107.942	112.153

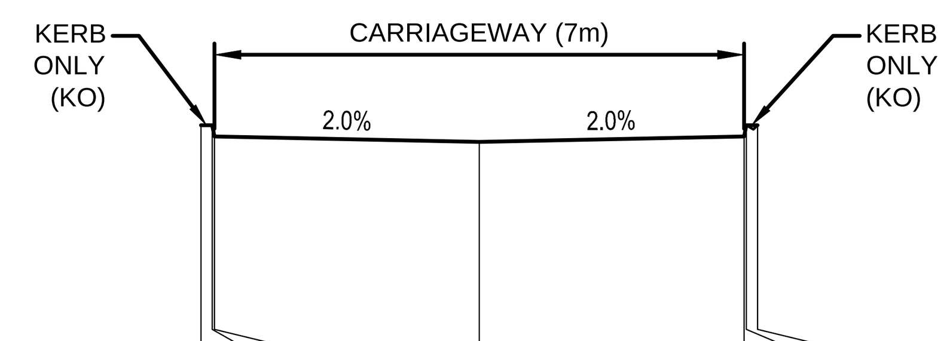
DESIGN LEVELS	83.570	83.520	83.632	83.520	83.570	83.469	83.419	83.780	83.836	83.730	83.780	83.768
EXISTING LEVELS	83.301	83.345	83.450	83.565	83.619	83.711	83.751	83.890	83.939	84.037	84.075	84.083
LEVEL DIFFERENCE	0.269	0.175	0.183	-0.045	-0.049	-0.242	-0.332	-0.110	-0.103	-0.307	-0.295	-0.315
CHAINAGE	127.942	137.942	160.435	182.968	192.968	212.198	222.198	255.000	266.286	287.572	297.572	300.000

ML01 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



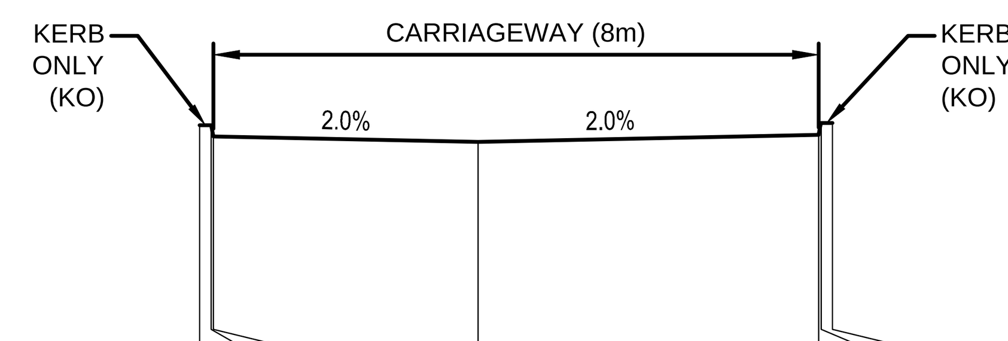
DESIGN LEVELS	83.768	83.670	83.763	83.712	83.812	83.762	83.862	83.813	84.205
EXISTING LEVELS	84.083	84.164	84.206	84.210	84.216	84.218	84.224	84.227	84.048
LEVEL DIFFERENCE	-0.315	-0.494	-0.444	-0.498	-0.403	-0.456	-0.361	-0.414	0.156
CHAINAGE	300.000	319.572	338.072	348.072	368.072	378.072	398.072	408.072	421.148

ML01 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



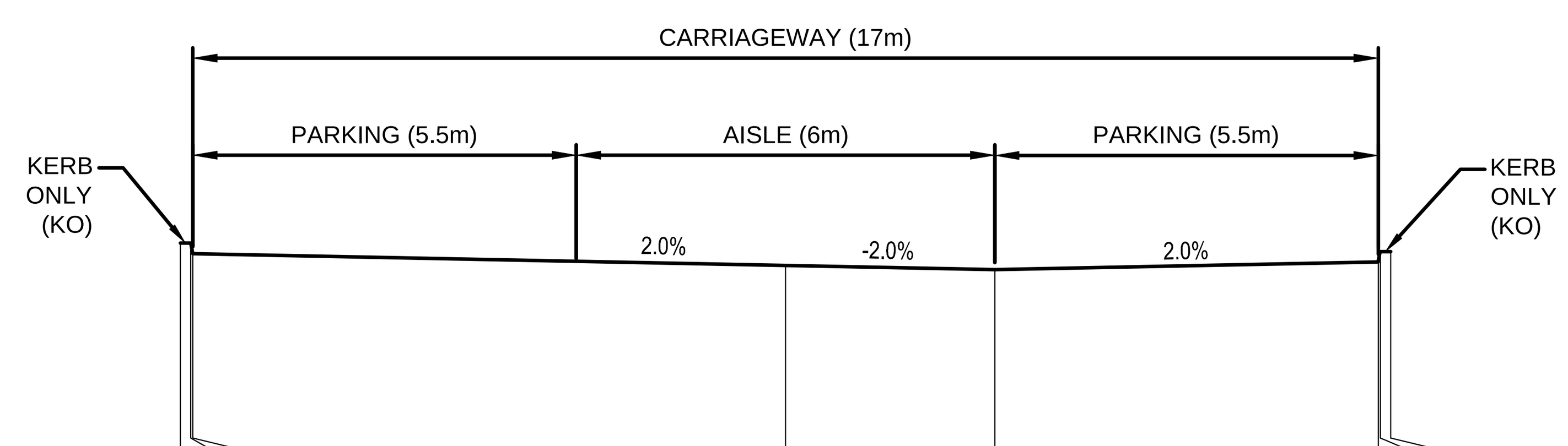
DESIGN ELEVATION	0.220	0.220	0.070	0.000	0.070	0.220	0.220
OFFSETS	-3.680	-3.530	-3.500	0.000	3.500	3.530	3.680

ML01 TYPICAL CROSS SECTION (CH 10.00 - 36.29, CH 69.02 - 89.85, CH 246.05 - 307.40)
SCALE 1:100



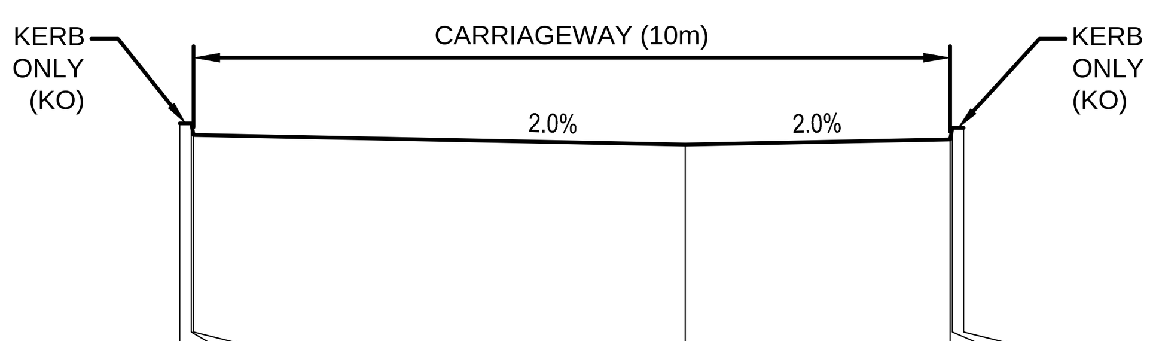
DESIGN ELEVATION	0.220	0.220	0.070	0.000	0.090	0.240	0.240
OFFSETS	-3.680	-3.530	-3.500	0.000	4.500	4.530	4.680

ML01 TYPICAL CROSS SECTION (CH 136.29- 69.02)
SCALE 1:100



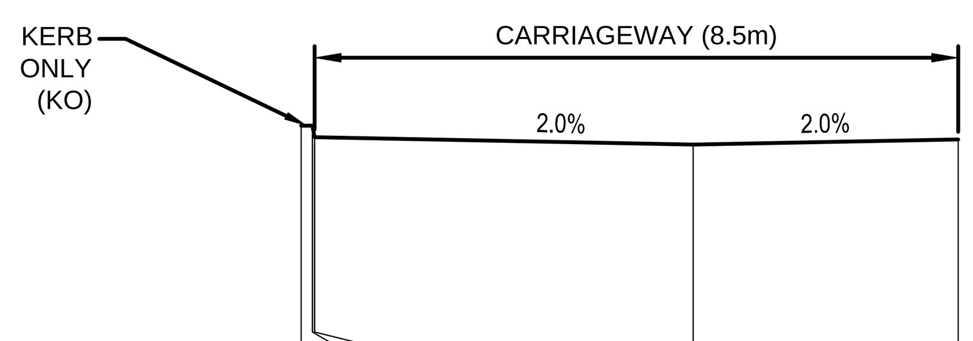
DESIGN ELEVATION	0.320	0.320	0.170	0.000	-0.060	0.170	0.320	0.320
OFFSETS	-8.680	-8.530	-8.500	0.000	3.000	8.500	8.530	8.680

ML01 TYPICAL CROSS SECTION (CH 144.68 - 192.53)
SCALE 1:100



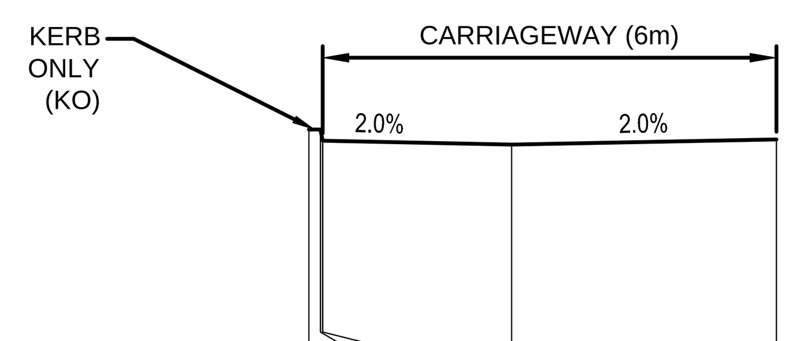
DESIGN ELEVATION	0.280	0.280	0.130	0.000	0.070	0.220	0.220
OFFSETS	-6.680	-6.530	-6.500	0.000	3.500	3.530	3.680

ML01 TYPICAL CROSS SECTION (CH 218.25 - 242)
SCALE 1:100



DESIGN ELEVATION	0.250	0.250	0.100	0.000	0.070
OFFSETS	-5.180	-5.030	-5.000	0.000	3.500

ML01 TYPICAL CROSS SECTION (CH 326.80 - 349)
SCALE 1:100



DESIGN ELEVATION	0.200	0.200	0.050	0.000	0.070
OFFSETS	-2.680	-2.530	-2.500	0.000	3.500

ML01 TYPICAL CROSS SECTION (CH 351.80 - 441.65)
SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
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PRINCIPAL CONSULTANTS
Architect HDR
Services AURECON
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[Contractor / Consultant / Document Author]
TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: Stage: NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT, HORSLEY PARK, NSW 2175 AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

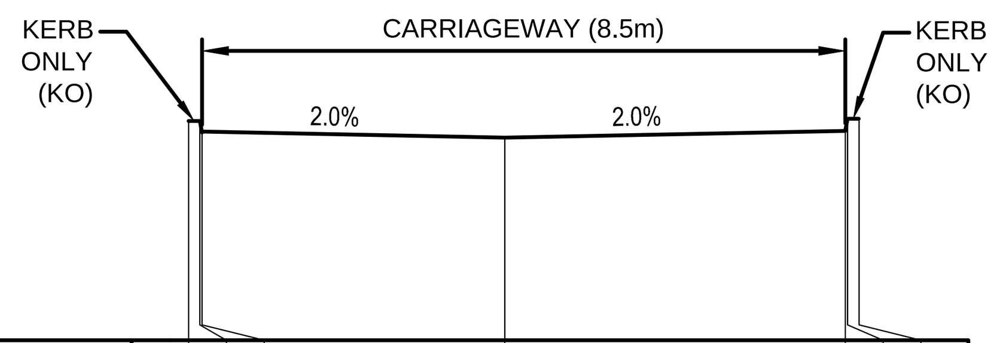
Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 1

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

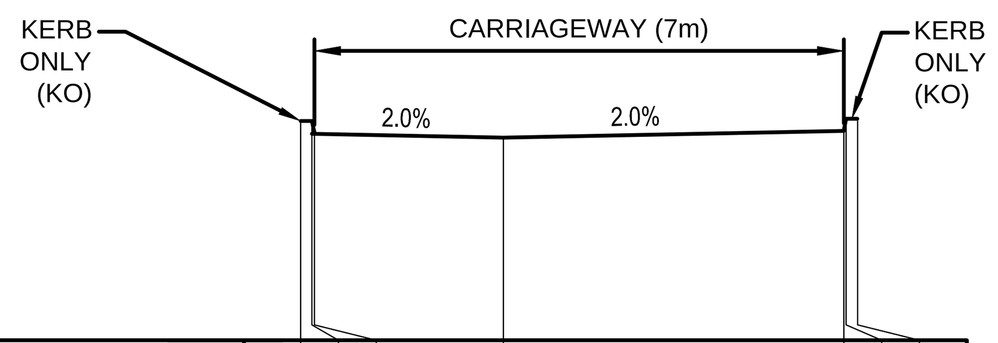
Scale: AS SHOWN | Sheet: A1 | File Name:

Drawing Number: S4-CI-NXT-DRG-0000-6010 | Rev: 2



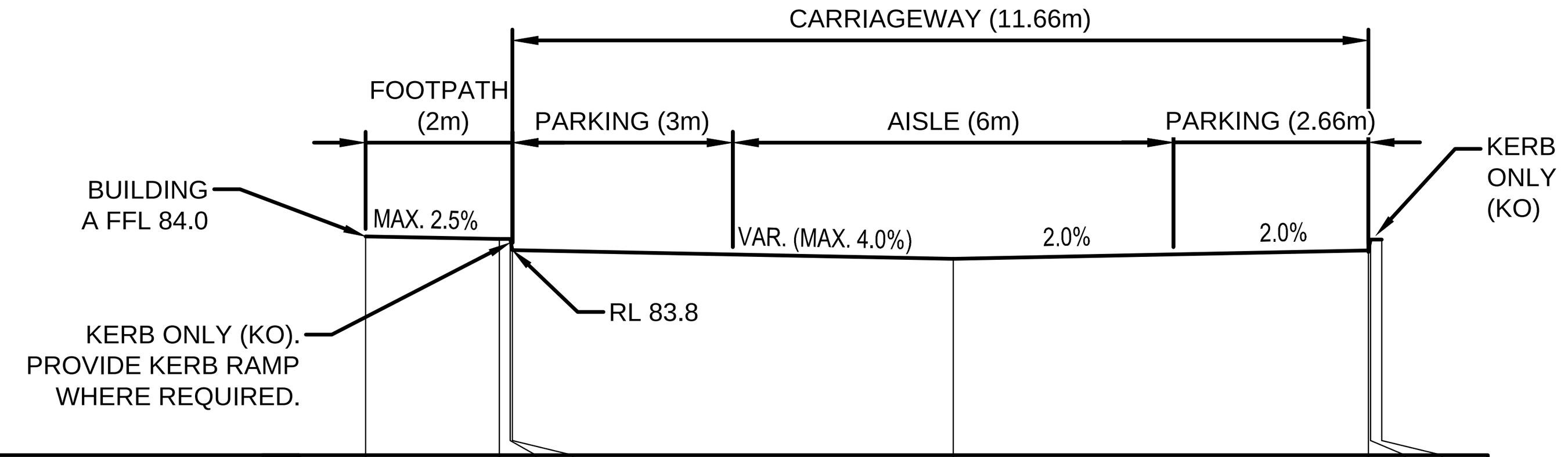
DESIGN ELEVATION	0.230	0.230	0.080	0.000	0.090	0.240	0.240
OFFSETS	-4.180	-4.030	-4.000	0.000	4.500	4.530	4.680

ML02 TYPICAL CROSS SECTION (CH 38.87 - 122.65)
SCALE 1:100



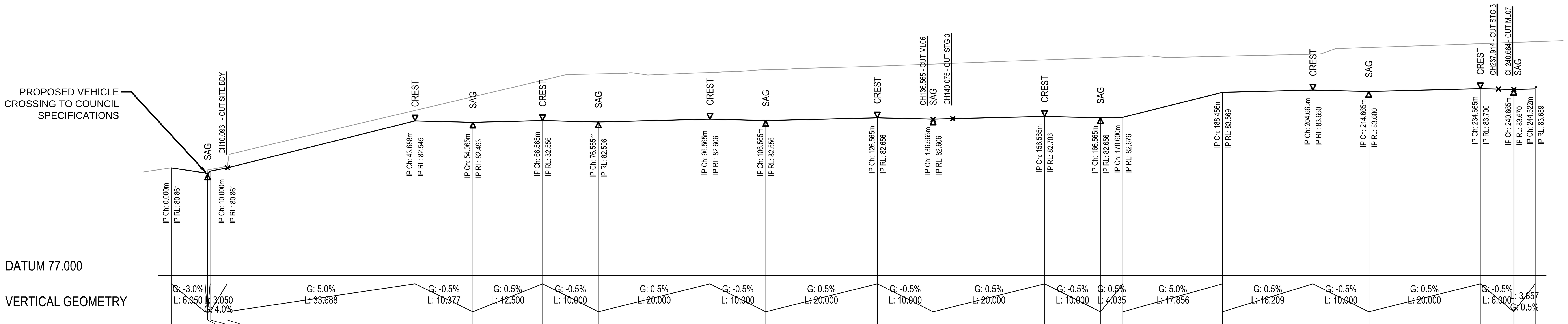
DESIGN ELEVATION	0.200	0.200	0.050	0.000	0.090	0.240	0.240
OFFSETS	-2.680	-2.530	-2.500	0.000	4.500	4.530	4.680

ML02 TYPICAL CROSS SECTION (CH 143.32 - 218.32)
SCALE 1:100



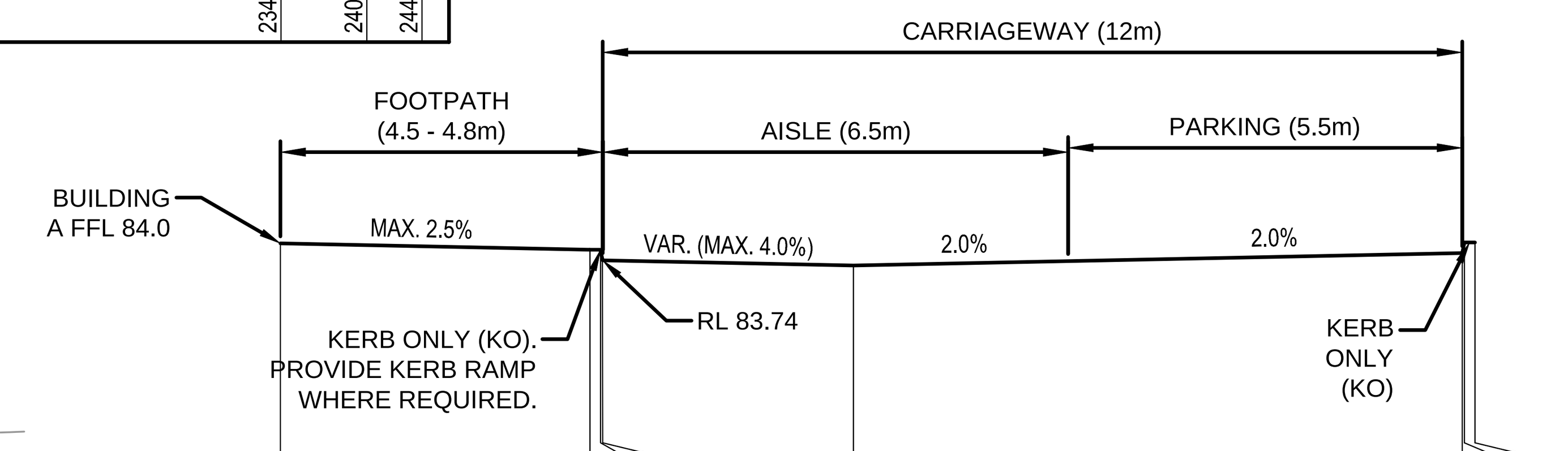
DESIGN ELEVATION	VAR	VAR	VAR	VAR	0.000	0.113	0.263	0.263
OFFSETS	-8.000	-6.180	-6.030	-6.000	0.000	5.655	5.685	5.835

ML03 TYPICAL CROSS SECTION (CH 18.8 - 49.9, CH 62.6 - 87.6)
SCALE 1:100



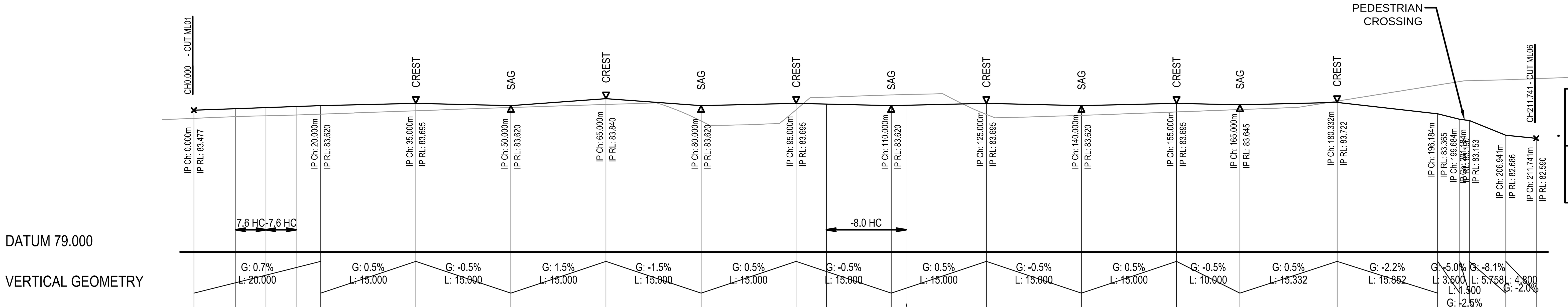
DESIGN LEVELS	80.861	80.679	80.639	80.739	80.861	82.545	82.493	82.556	82.506	82.606	82.556	82.656	82.606	82.706	82.656	82.676	83.569	83.650	83.600	83.700	83.670	83.689
EXISTING LEVELS	80.861	80.680	80.641	80.799	80.921	82.920	83.410	84.000	84.229	84.278	84.380	84.507	84.581	84.733	84.809	84.839	84.863	84.938	85.177	85.313	85.358	85.387
LEVEL DIFFERENCE	0.000	-0.001	-0.002	-0.060	-0.060	-0.375	-0.917	-1.444	-1.723	-1.672	-1.824	-1.851	-1.975	-2.027	-2.153	-2.163	-1.294	-1.288	-1.577	-1.613	-1.688	-1.698
CHAINAGE	0.000	6.050	6.500	6.950	10.000	43.688	54.065	66.565	76.565	96.565	106.565	126.565	136.565	156.565	166.565	170.600	188.456	204.665	214.665	234.665	240.665	244.522

ML02 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



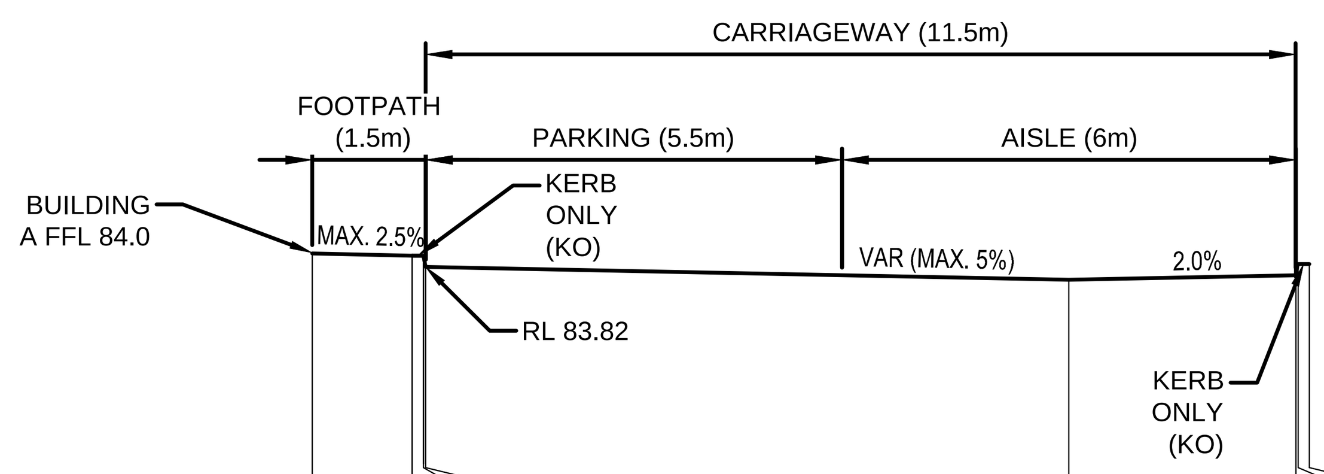
DESIGN ELEVATION	VAR	VAR	VAR	VAR	0.000	0.170	0.230	0.230
OFFSETS	VAR	-3.680	-3.530	-3.500	0.000	8.500	8.530	8.680

ML03 TYPICAL CROSS SECTION (CH 95.6 - 100.3, CH 144.6 - 133.2)
SCALE 1:100



DESIGN LEVELS	83.477	83.524	83.558	83.592	83.620	83.695	83.620	83.840	83.620	83.695	83.671	83.620	83.632	83.695	83.620	83.695	83.645	83.722	83.365	83.190	83.153	82.686	82.590
EXISTING LEVELS	83.220	83.272	83.300	83.325	83.353	83.459	83.563	83.658	83.139	83.492	83.886	83.960	83.973	83.343	83.315	83.422	83.497	83.763	84.271	84.383	84.408	84.438	84.473
LEVEL DIFFERENCE	0.257	0.252	0.259	0.267	0.267	0.236	0.057	0.182	0.481	0.203	-0.215	-0.340	-0.341	0.352	0.305	0.273	0.148	-0.042	-0.906	-1.193	-1.255	-1.752	-1.883
CHAINAGE	0.000	6.595	11.366	16.133	20.000	35.000	50.000	65.000	80.000	95.000	99.767	110.000	112.334	125.000	140.000	155.000	165.000	180.332	196.184	199.684	201.184	206.941	211.741

ML03 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



DESIGN ELEVATION	VAR	VAR	VAR	VAR	0.000	0.060	0.210	0.210
OFFSETS	-10.000	-8.680	-8.530	-8.500	0.000	3.000	3.030	3.180

ML03 TYPICAL CROSS SECTION (CH 142 - 196.18)
SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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Key Plan

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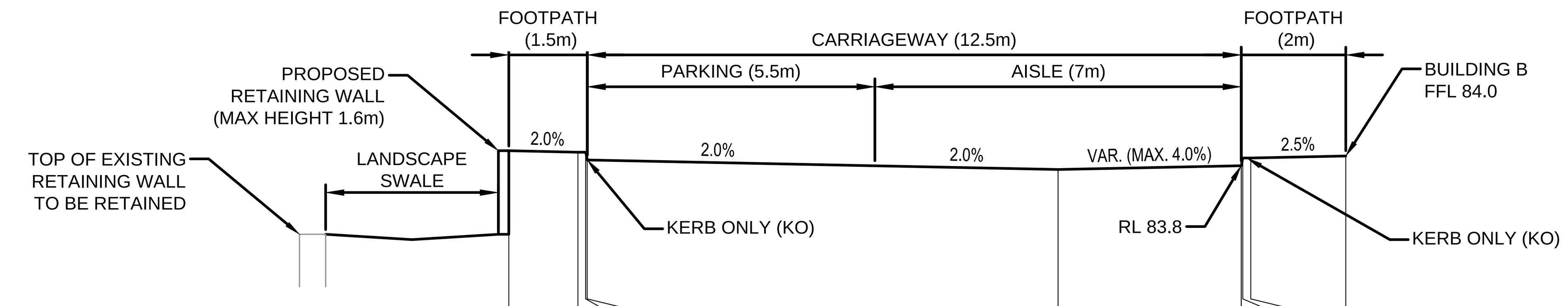
Project Name:
NEXT DC DATA CENTRE

Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 2

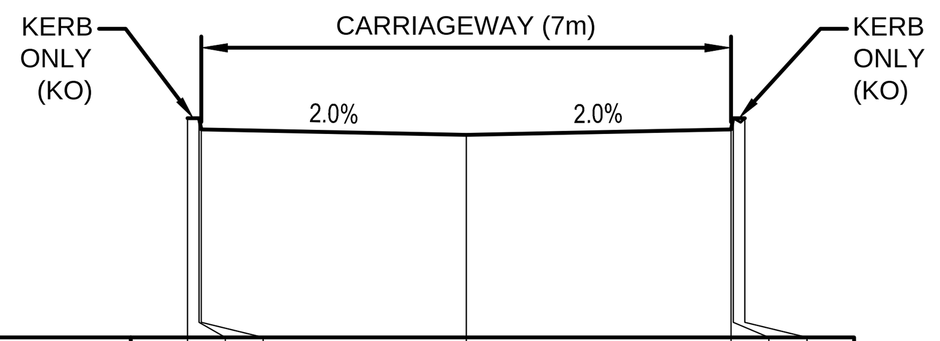
Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn JH/SS Date 21/03/2024
CHK CG Date 21/03/2024
Scale: AS SHOWN Sheet: A1 File Name:
Drawing Number S4-CI-NXT-DRG-0000-6011 Rev 2



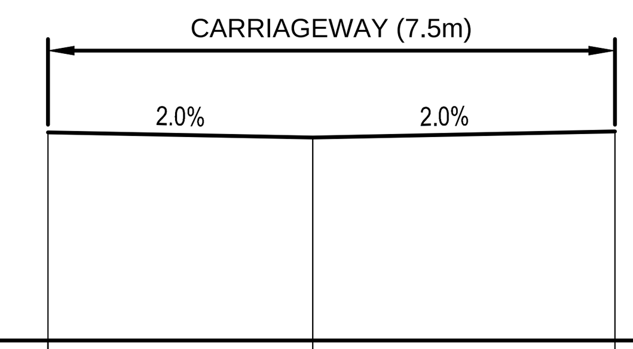
DESIGN ELEVATION	0.368	0.330	0.330	0.180	0.000	VAR	VAR	VAR	VAR
OFFSETS	-10.500	-9.180	-9.030	-9.000	0.000	3.500	3.530	3.680	5.500

ML04 TYPICAL CROSS SECTION (CH 16.4 - 74.35)
SCALE 1:100



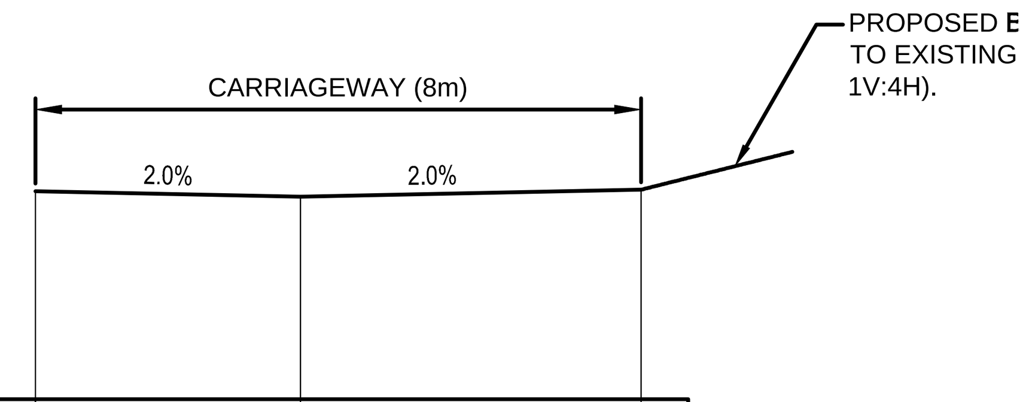
DESIGN ELEVATION	0.220	0.220	0.070	0.000	0.070	0.220	0.220
OFFSETS	-3.680	-3.530	-3.500	0.000	3.500	3.530	3.680

ML01 TYPICAL CROSS SECTION (CH 12 - 16.4, CH 74.35 - 176)
SCALE 1:100



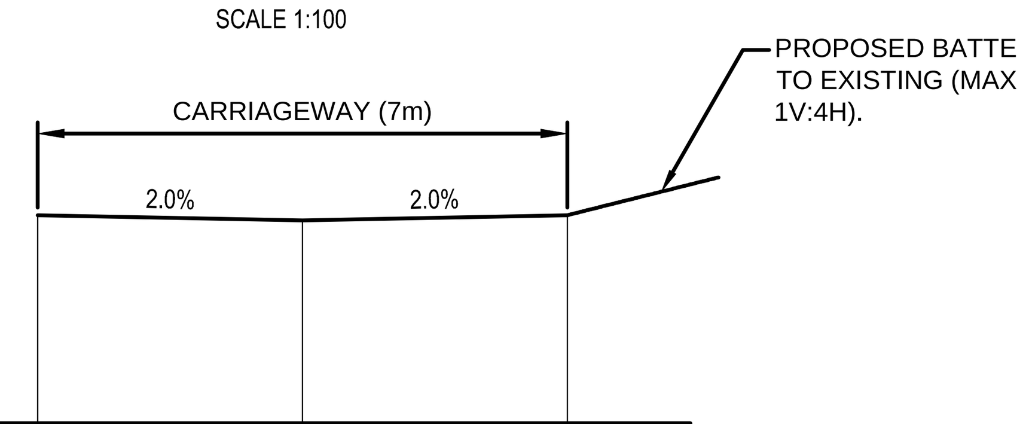
DESIGN ELEVATION	0.070	0.000	0.080
OFFSETS	-3.500	0.000	4.000

ML05 TYPICAL CROSS SECTION (CH 10 - 198)
SCALE 1:100



DESIGN ELEVATION	0.070	0.000	0.090
OFFSETS	-3.500	0.000	4.500

ML05 TYPICAL CROSS SECTION (CH 208 - 243)
SCALE 1:100

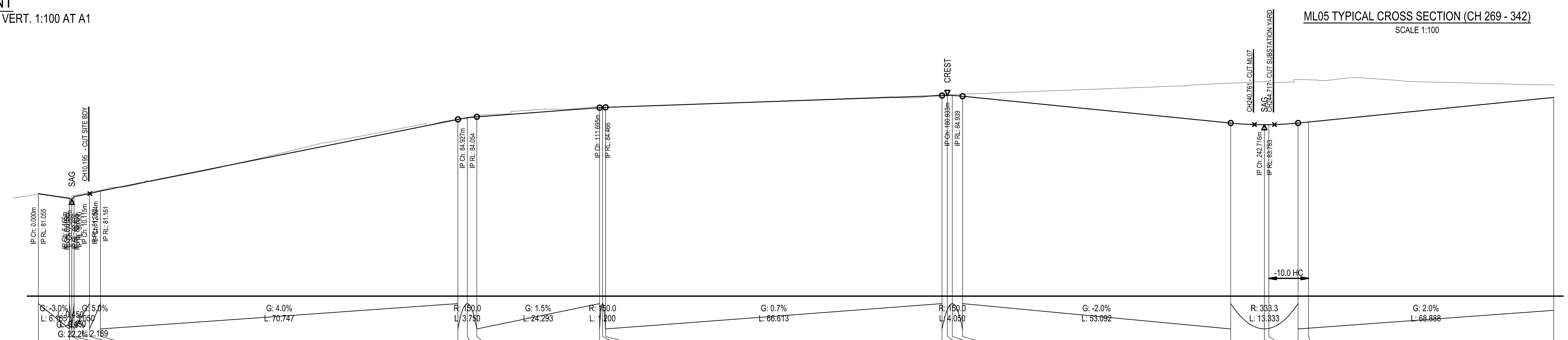


DESIGN ELEVATION	0.070	0.000	0.070
OFFSETS	-3.500	0.000	3.500

ML05 TYPICAL CROSS SECTION (CH 269 - 342)
SCALE 1:100

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE
0.000	83.468	83.214	0.254
15.000	83.740	82.747	0.993
30.000	83.665	82.183	1.482
45.000	83.740	82.333	1.407
60.000	83.665	81.551	2.114
75.000	83.890	81.561	2.329
77.513	83.871	81.562	2.309
95.177	83.740	81.272	2.468
102.645	83.583	81.653	1.930
145.900	82.677	82.277	0.400
155.900	82.477	82.336	0.141
165.109	82.431	82.361	0.070
171.972	82.472	82.243	0.228
175.117	82.490	82.235	0.255
196.023	82.594	82.202	0.392

ML04 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



CHAINAGE	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFFERENCE
0.000	81.055	81.032	0.023
6.165	80.870	80.854	0.016
6.615	80.830	80.814	0.016
7.065	80.930	80.975	-0.045
10.115	81.052	81.097	-0.045
12.304	81.161	81.190	-0.029
83.052	83.991	84.005	-0.014
84.927	84.054	84.071	-0.017
86.802	84.094	84.137	-0.043
111.095	84.459	84.447	0.012
111.695	84.466	84.457	0.010
112.295	84.472	84.467	0.005
178.908	84.938	84.995	-0.057
179.958	84.942	84.969	-0.027
180.933	84.939	84.977	-0.038
182.958	84.912	84.992	-0.080
236.049	83.850	85.428	-1.578
242.716	83.783	85.491	-1.708
243.599	83.785	85.444	-1.659
249.383	83.850	85.571	-1.721
251.453	83.891	85.564	-1.673
300.000	84.862	85.360	-0.497

ML05 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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[Contractor / Consultant / Document Author]
TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

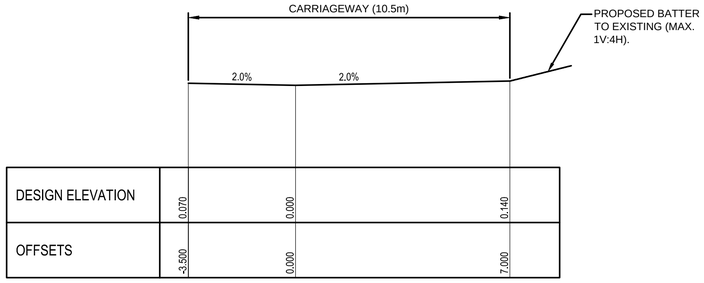
Project Address:
16 JOHNSTON CRESCENT, HORSLEY PARK, NSW 2175 AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 3

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

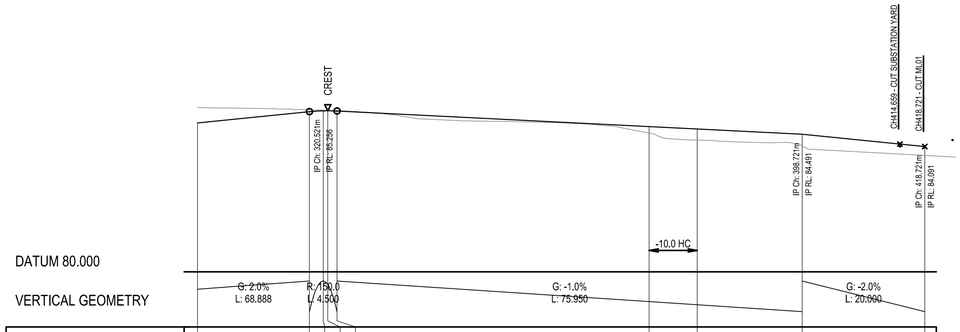
Drawn JH/SS | Date 21/03/2024
CHK CG | Date 21/03/2024
Scale: AS SHOWN | Sheet: A1 | File Name:
Drawing Number S4-CI-NXT-DRG-0000-6012 | Rev 2



DESIGN ELEVATION	0.070	0.000	0.140
OFFSETS	-3.500	0.000	7.000

ML05 TYPICAL CROSS SECTION (CH 355 - 392)

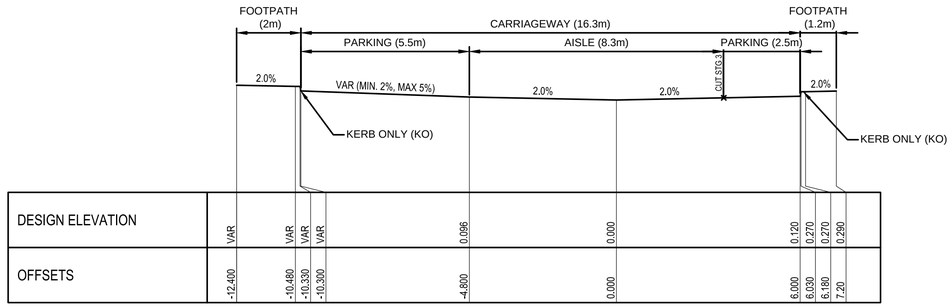
SCALE 1:100



DESIGN LEVELS	84.862	85.228	85.265	85.256	85.250	84.741	84.662	84.491	84.091
EXISTING LEVELS	85.360	85.291	85.281	85.267	85.267	84.530	84.304	84.118	83.801
LEVEL DIFFERENCE	-0.497	-0.063	-0.026	-0.009	-0.017	0.211	0.358	0.373	0.290
CHAINAGE	300.000	318.271	320.521	321.271	322.771	373.729	381.583	398.721	418.721

ML05 ALIGNMENT

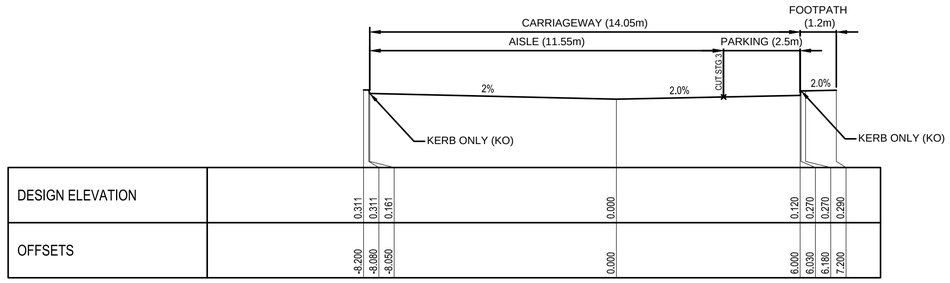
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



DESIGN ELEVATION	VAR	VAR	VAR	VAR	0.096	0.000	0.120	0.270	0.270	0.290
OFFSETS	-12.400	-10.480	-10.330	-10.300	-4.800	0.000	6.000	6.030	6.180	7.20

ML06 TYPICAL CROSS SECTION (CH 24 - 38.7, CH 59.15 - 79.15)

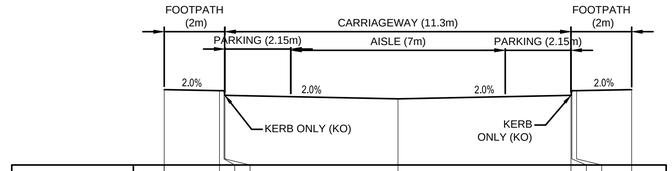
SCALE 1:100



DESIGN ELEVATION	0.311	0.311	0.161	0.000	0.120	0.270	0.270	0.290	
OFFSETS	-8.200	-8.080	-8.050	0.000	6.000	6.030	6.180	7.200	

ML06 TYPICAL CROSS SECTION (CH 92 - 110)

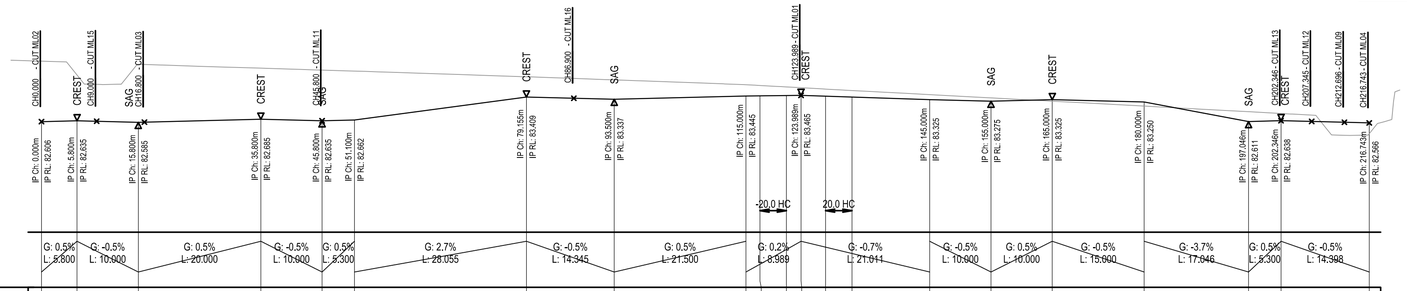
SCALE 1:100



DESIGN ELEVATION	0.299	0.263	0.263	0.113	0.000	0.113	0.263	0.263	0.299	
OFFSETS	-7.650	-5.830	-5.680	-5.650	0.000	5.650	5.680	5.830	7.650	

ML06 TYPICAL CROSS SECTION (CH 141.54 - 192.42)

SCALE 1:100



DESIGN LEVELS	82.606	82.635	82.585	82.685	82.635	82.662	83.409	83.337	83.445	83.450	83.460	83.465	83.438	83.409	83.325	83.275	83.325	83.250	82.611	82.638	82.566	
EXISTING LEVELS	84.581	84.129	84.480	84.352	84.290	84.257	84.071	83.970	83.812	83.788	83.741	83.714	83.669	83.622	83.488	83.382	83.275	83.114	82.931	82.873	82.210	
LEVEL DIFFERENCE	-1.975	-1.494	-1.895	-1.667	-1.655	-1.595	-0.662	-0.633	-0.367	-0.338	-0.281	-0.249	-0.231	-0.213	-0.163	-0.107	0.050	0.136	-0.319	-0.235	0.356	
CHAINAGE	0.000	5.800	15.800	35.800	45.800	51.100	79.155	93.500	115.000	117.277	121.593	123.989	128.000	132.316	145.000	155.000	165.000	180.000	197.046	202.346	216.743	

ML06 ALIGNMENT

SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

21.03.24	2	MINOR AMENDMENTS
13.03.24	1	INITIAL RELEASE

DATE	No.	REVISION HISTORY	DRW	CHK	QA
			SS	CG	GC
			JH	CG	GC

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Document Author Project Number

Key Plan

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16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

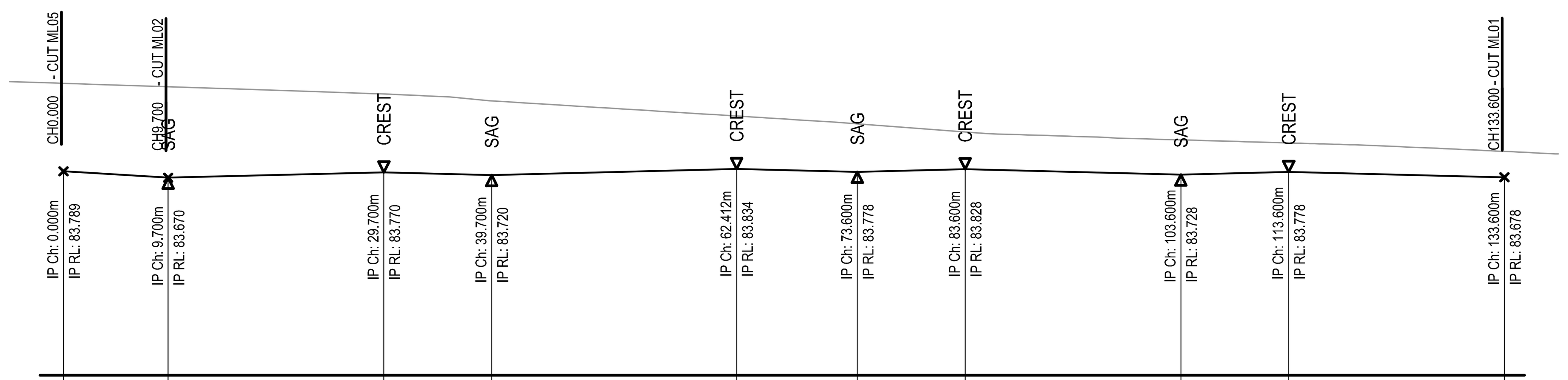
Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 4

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale	Sheet:	File Name:
A3 SHOWN	A1	

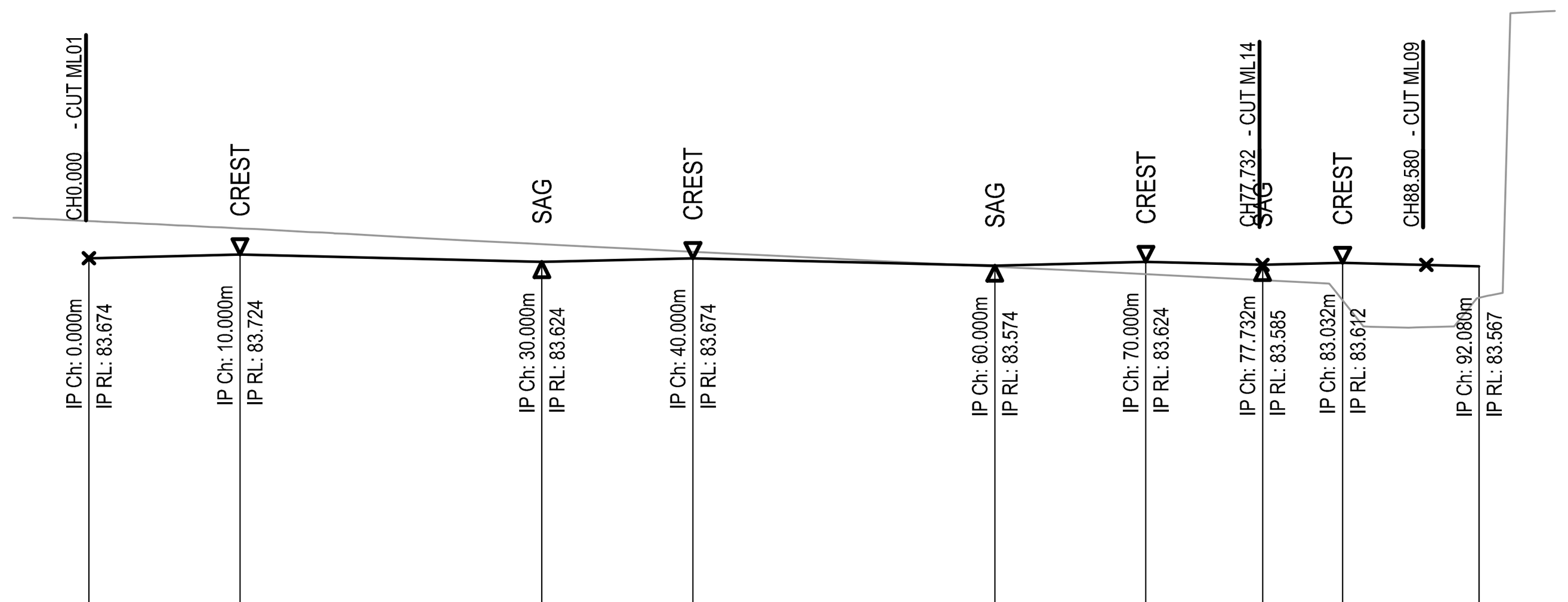
Drawing Number	Rev
S4-CI-NXT-DRG-0000-6013	2



DATUM 80.000

VERTICAL GEOMETRY	G: -1.2% L: 9.700	G: 0.5% L: 20.000	G: -0.5% L: 10.000	G: 0.5% L: 22.712	G: -0.5% L: 11.188	G: 0.5% L: 10.000	G: -0.5% L: 20.000	G: 0.5% L: 10.000	G: -0.5% L: 20.000	
DESIGN LEVELS	83.789	83.670	83.770	83.720	83.834	83.778	83.828	83.728	83.778	83.678
EXISTING LEVELS		85.358	85.224	85.098	84.815	84.671	84.518	84.372	84.316	84.159
LEVEL DIFFERENCE		-1.688	-1.454	-1.378	-0.982	-0.893	-0.690	-0.644	-0.538	-0.481
CHAINAGE	0.000	9.700	29.700	39.700	62.412	73.600	83.600	103.600	113.600	133.600

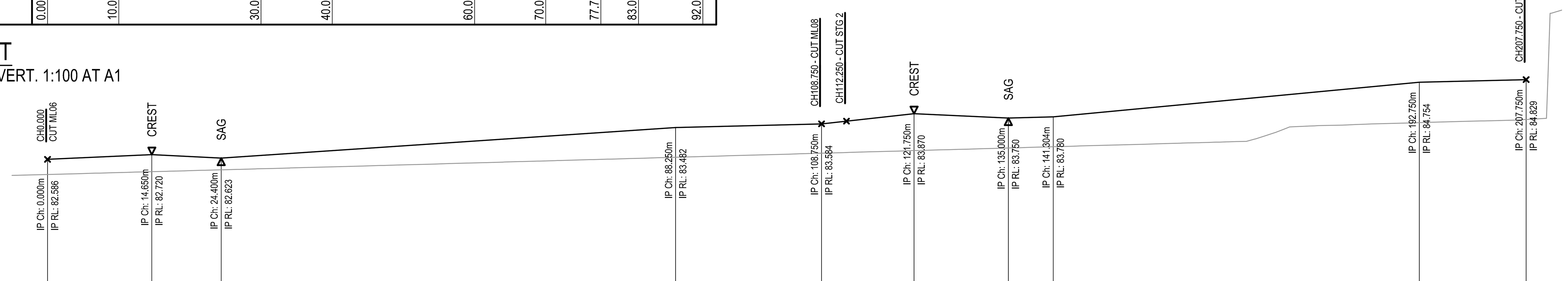
ML07 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



DATUM 79.000

VERTICAL GEOMETRY	G: 0.5% L: 10.000	G: -0.5% L: 20.000	G: 0.5% L: 10.000	G: -0.5% L: 20.000	G: 0.5% L: 10.000	G: -0.5% L: 7.732	G: 0.5% L: 5.300	G: -0.5% L: 9.048	
DESIGN LEVELS	83.674	83.724	83.624	83.674	83.574	83.624	83.585	83.612	83.567
EXISTING LEVELS	84.166	84.069	83.860	83.761	83.563	83.464	83.383	83.116	83.150
LEVEL DIFFERENCE	-0.492	-0.345	-0.236	-0.087	0.011	0.160	0.202	0.496	0.416
CHAINAGE	0.000	10.000	30.000	40.000	60.000	70.000	77.732	83.032	92.080

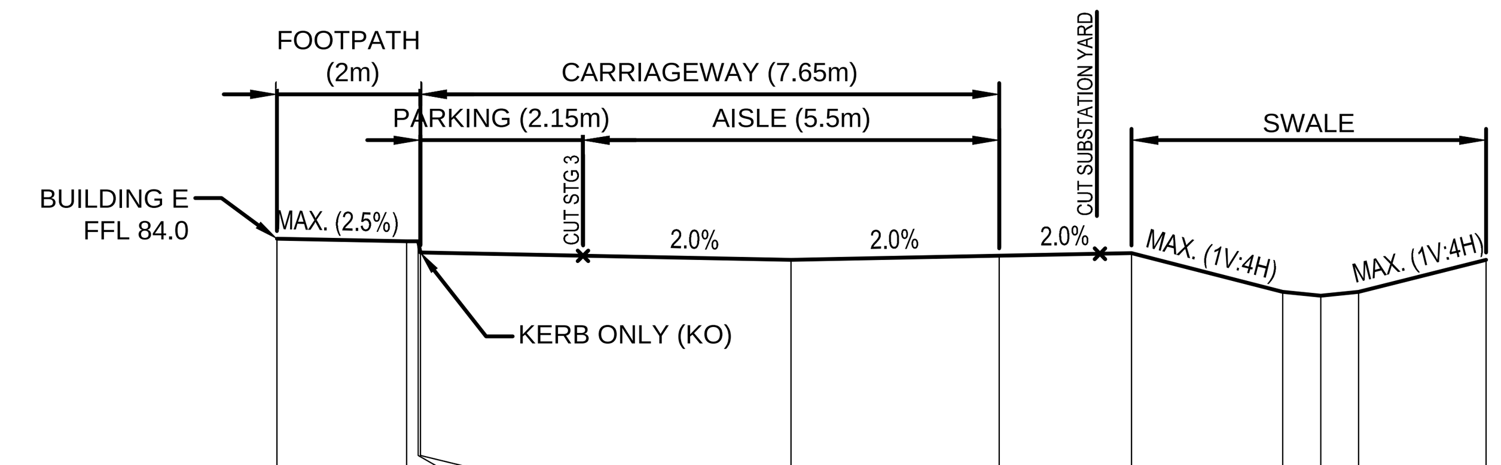
ML08 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



DATUM 79.000

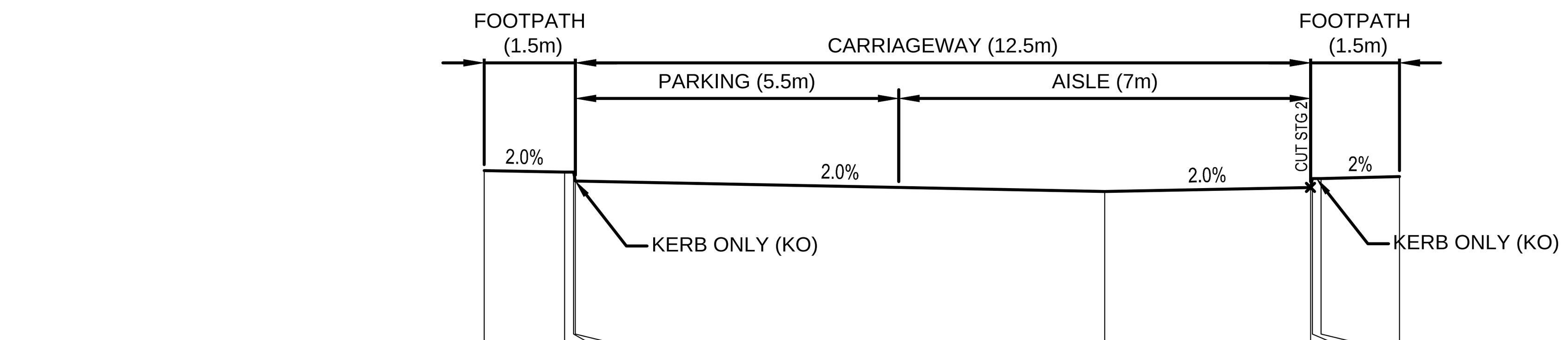
VERTICAL GEOMETRY	G: 0.9% L: 14.650	G: -1.0% L: 9.750	G: 1.3% L: 63.850	G: 0.5% L: 20.500	G: 2.2% L: 13.000	G: -0.9% L: 13.250	G: 0.5% L: 6.304	G: 1.9% L: 51.446	G: 0.5% L: 15.000	
DESIGN LEVELS	82.586	82.720	82.623	83.482	83.584	83.870	83.750	83.780	84.754	84.829
EXISTING LEVELS	82.161	82.240	82.292	82.645	82.760	82.832	82.906	82.942	83.619	83.708
LEVEL DIFFERENCE	0.426	0.480	0.330	0.837	0.825	1.038	0.844	0.838	1.135	1.121
CHAINAGE	0.000	14.650	24.400	88.250	108.750	121.750	135.000	141.304	192.750	207.750

ML09 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



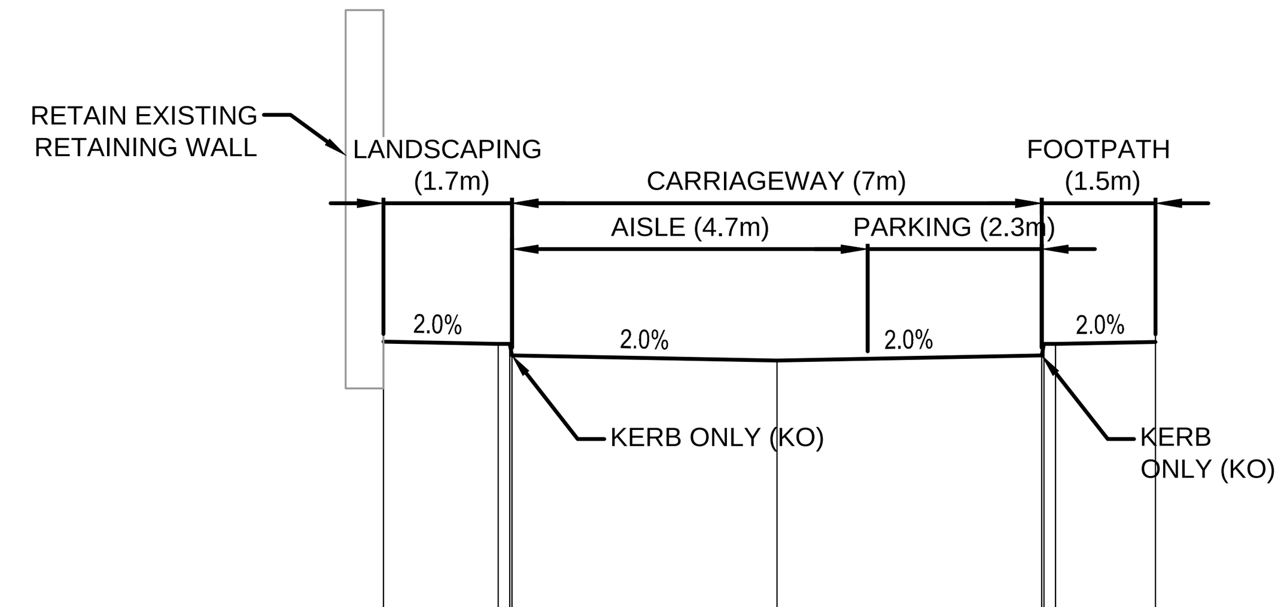
DESIGN ELEVATION	VAR	0.248	0.248	0.098	0.000	0.055	0.090	VAR	VAR	VAR	0.090
OFFSETS	-6.900	-5.080	-4.930	-4.900	0.000	2.750	4.500	6.500	7.000	7.500	VAR

ML07 TYPICAL CROSS SECTION
SCALE 1:100



DESIGN ELEVATION	0.357	0.330	0.330	0.180	0.000	0.070	0.220	0.220	0.247
OFFSETS	-10.500	-9.180	-9.030	-9.000	0.000	3.500	3.530	3.680	5.000

ML08 TYPICAL CROSS SECTION
SCALE 1:100



DESIGN ELEVATION	0.247	0.220	0.220	0.070	0.000	0.070	0.220	0.220	0.247
OFFSETS	-5.000	-3.680	-3.530	-3.500	0.000	3.500	3.530	3.680	5.000

ML09 TYPICAL CROSS SECTION
SCALE 1:100

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13.03.24	1	INITIAL RELEASE	JH	CG	GC

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612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

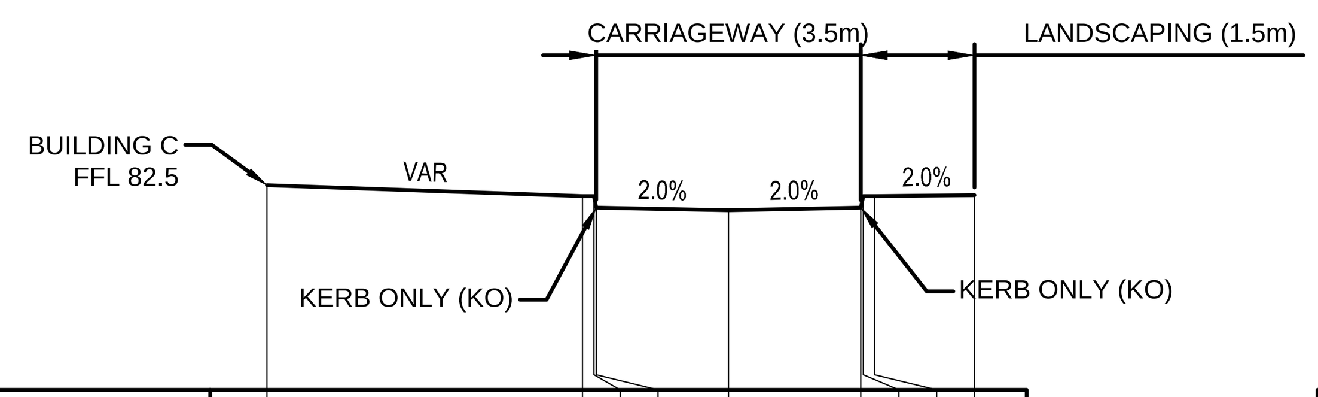
Project Address:
16 JOHNSTON CRESCENT, HORSLEY PARK, NSW 2175 AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 5

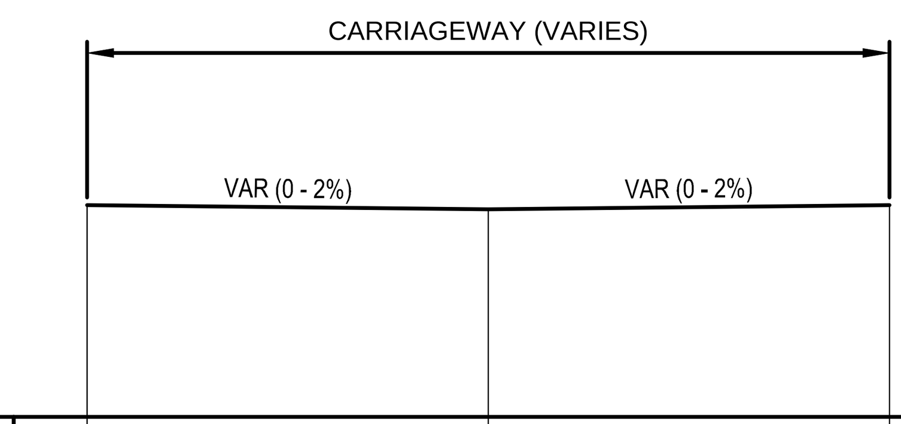
Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn JH/SS Date 21/03/2024
CHK CG Date 21/03/2024
Scale: AS SHOWN Sheet: A1 File Name:
Drawing Number S4-CI-NXT-DRG-0000-6014 Rev 2



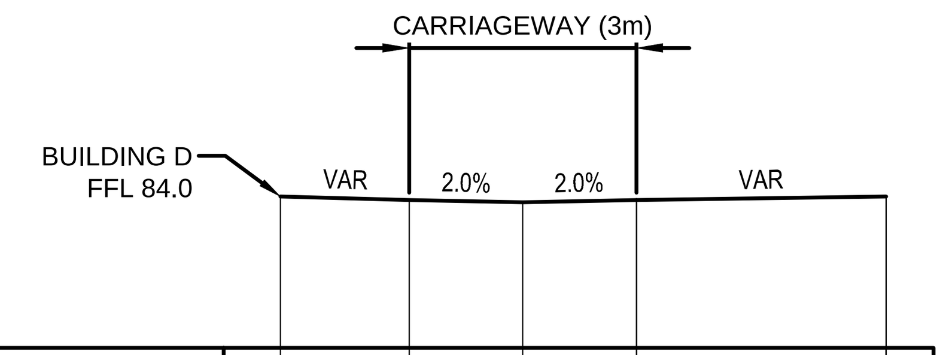
DESIGN ELEVATION	VAR	0.185	0.185	0.035	0.000	0.035	0.185	0.185	0.212
OFFSETS	-6.100	-1.930	-1.780	-1.750	0.000	1.750	1.780	1.930	3.250

ML10 TYPICAL CROSS SECTION
SCALE 1:100



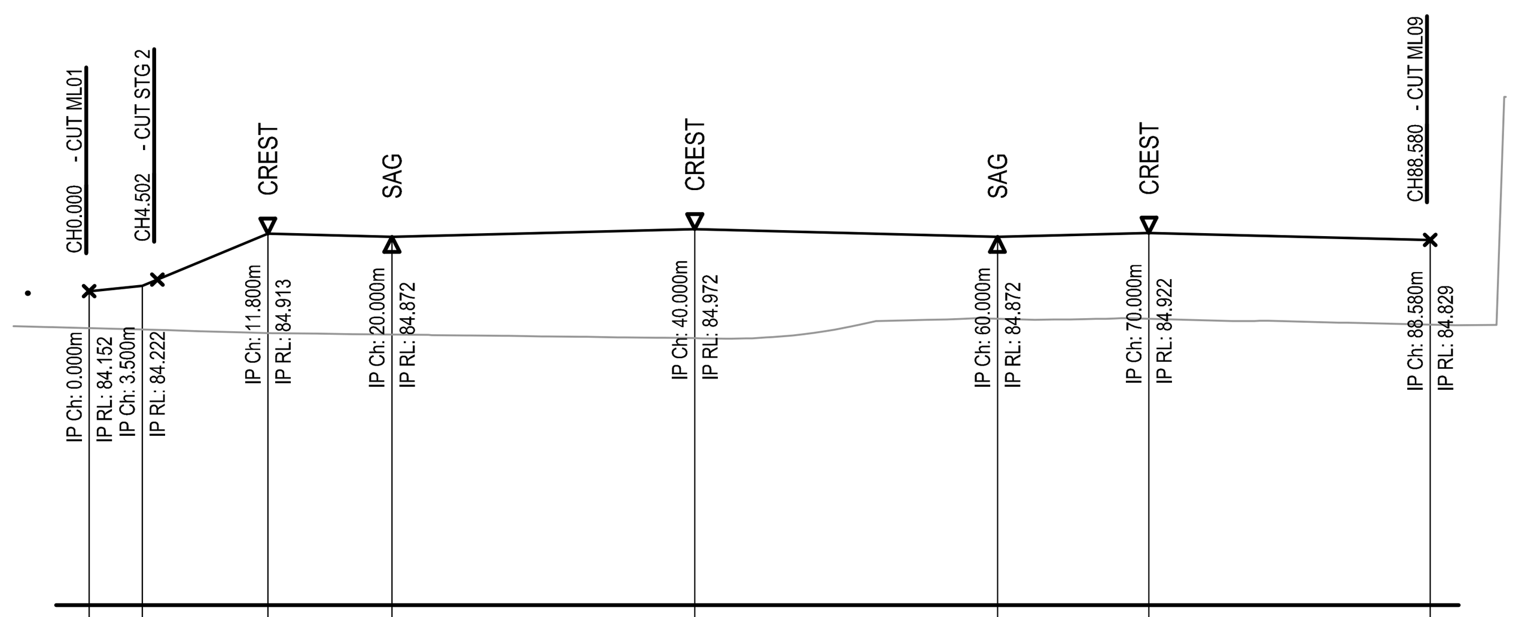
DESIGN ELEVATION	VAR (0.000 - 0.200)	0.000	VAR (0.000 - 0.200)
OFFSETS	VAR	0.000	VAR

LOADING DOCKS (ML11, ML12, ML13, ML14 & ML15) TYPICAL CROSS SECTION
SCALE 1:100



DESIGN ELEVATION	VAR	0.030	0.000	0.030	VAR
OFFSETS	-3.200	-1.500	0.000	1.500	4.800

ML16 TYPICAL CROSS SECTION
SCALE 1:100

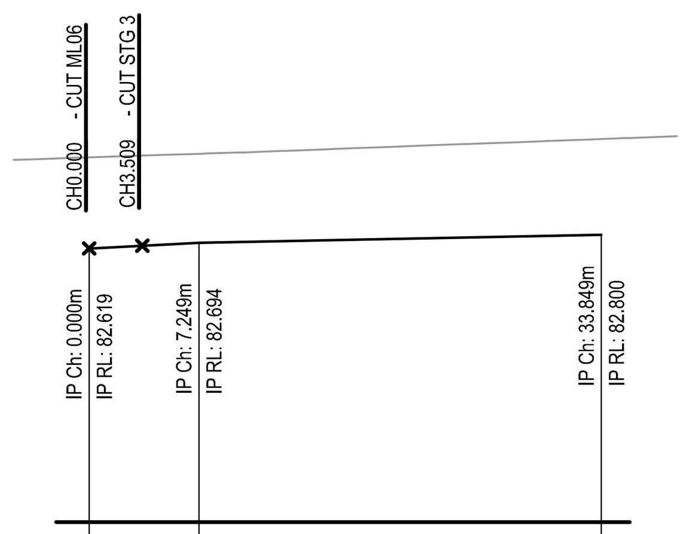


DATUM 80.000

VERTICAL GEOMETRY: G: 2.0% L: 3.500 | G: 8.3% L: 8.300 | G: -0.5% L: 8.200 | G: 0.5% L: 20.000 | G: -0.5% L: 20.000 | G: 0.5% L: 10.000 | G: -0.5% L: 18.580

DESIGN LEVELS	84.152	84.222	84.913	84.872	84.972	84.872	84.922	84.829
EXISTING LEVELS	83.663	83.644	83.599	83.578	83.530	83.786	83.787	83.708
LEVEL DIFFERENCE	0.489	0.578	1.314	1.294	1.442	1.086	1.135	1.121
CHAINAGE	0.000	3.500	11.800	20.000	40.000	60.000	70.000	88.580

ML10 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

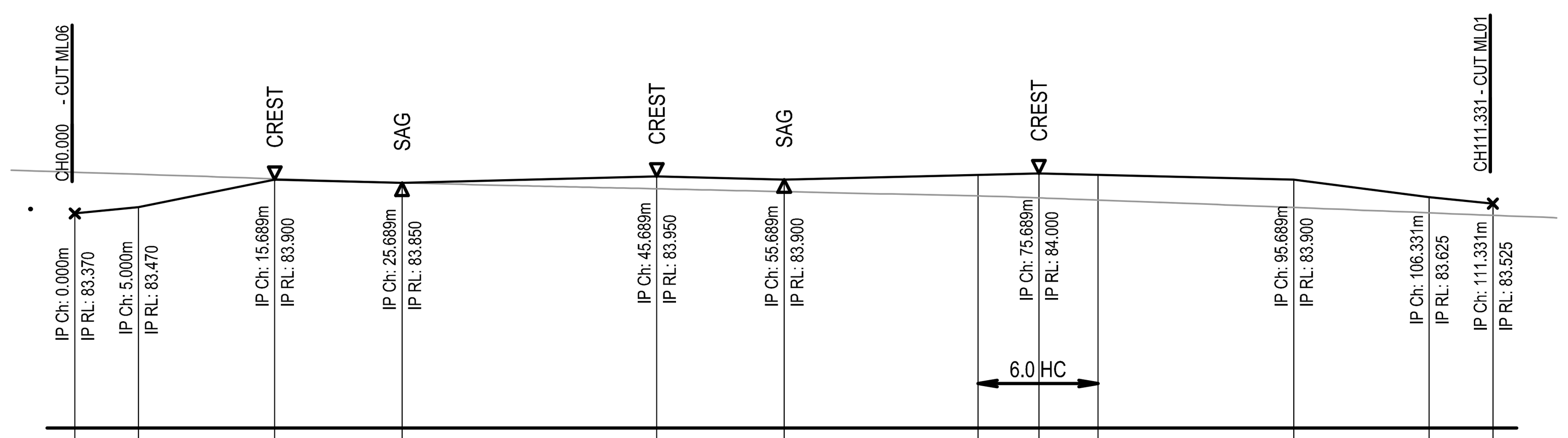


DATUM 79.000

VERTICAL GEOMETRY: G: 1.0% L: 7.249 | G: 0.4% L: 26.600

DESIGN LEVELS	82.619	82.694	82.800
EXISTING LEVELS	83.823	83.869	84.065
LEVEL DIFFERENCE	-1.204	-1.175	-1.266
CHAINAGE	0.000	7.249	33.849

ML15 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

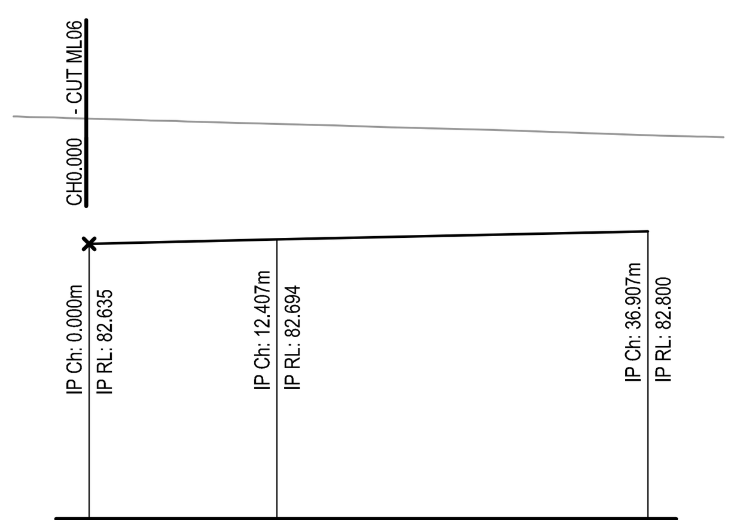


DATUM 80.000

VERTICAL GEOMETRY: G: 2.0% L: 5.000 | G: 4.0% L: 10.689 | G: -0.5% L: 10.000 | G: 0.5% L: 20.000 | G: -0.5% L: 10.000 | G: 0.5% L: 20.000 | G: -0.5% L: 20.000 | G: -2.6% L: 10.643 | G: -2.0% L: 5.000

DESIGN LEVELS	83.370	83.470	83.900	83.850	83.950	83.900	83.976	84.000	83.977	83.900	83.625	83.525
EXISTING LEVELS	84.017	83.985	83.913	83.851	83.757	83.712	83.645	83.614	83.579	83.463	83.379	83.341
LEVEL DIFFERENCE	-0.647	-0.514	-0.013	-0.001	0.193	0.188	0.332	0.386	0.397	0.437	0.245	0.184
CHAINAGE	0.000	5.000	15.689	25.689	45.689	55.689	70.907	75.689	80.331	95.689	106.331	111.331

ML16 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

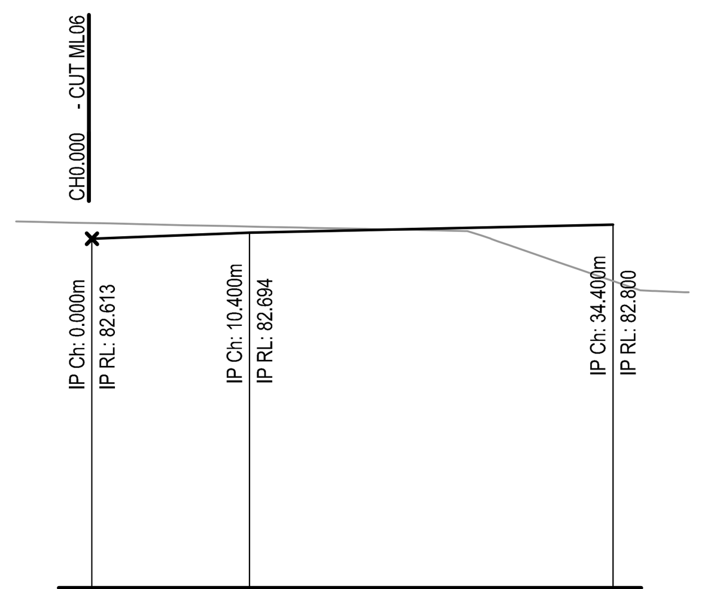


DATUM 79.000

VERTICAL GEOMETRY: G: 0.5% L: 12.407 | G: 0.4% L: 24.500

DESIGN LEVELS	82.635	82.694	82.800
EXISTING LEVELS	84.290	84.220	84.073
LEVEL DIFFERENCE	-1.655	-1.526	-1.273
CHAINAGE	0.000	12.407	36.907

ML11 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

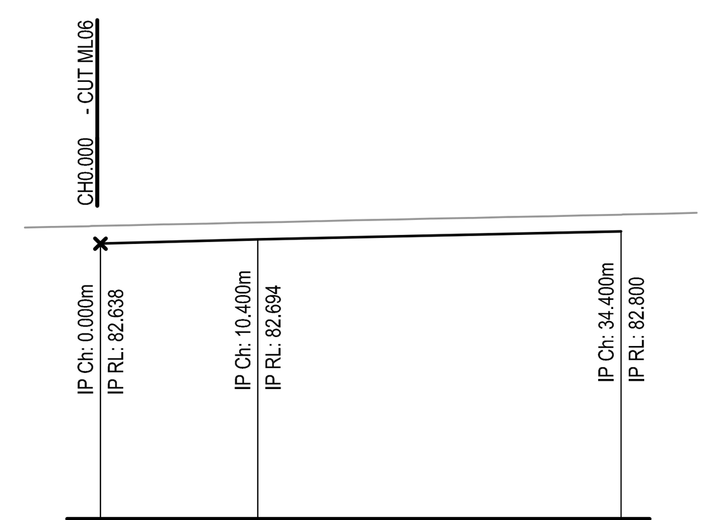


DATUM 78.000

VERTICAL GEOMETRY: G: 0.8% L: 10.400 | G: 0.4% L: 24.000

DESIGN LEVELS	82.613	82.694	82.800
EXISTING LEVELS		82.774	82.055
LEVEL DIFFERENCE		-0.080	0.745
CHAINAGE	0.000	10.400	34.400

ML12 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

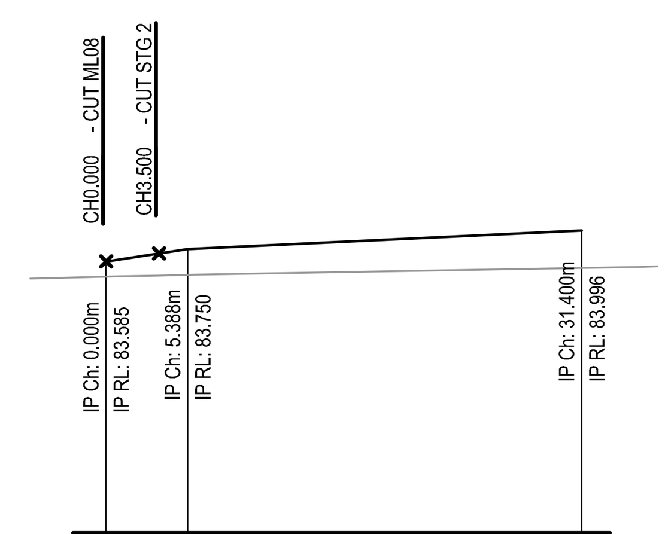


DATUM 79.000

VERTICAL GEOMETRY: G: 0.5% L: 10.400 | G: 0.4% L: 24.000

DESIGN LEVELS	82.638	82.694	82.800
EXISTING LEVELS	82.873	82.918	83.022
LEVEL DIFFERENCE	-0.235	-0.224	-0.222
CHAINAGE	0.000	10.400	34.400

ML13 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



DATUM 80.000

VERTICAL GEOMETRY: G: 3.1% L: 5.387 | G: 0.9% L: 26.013

DESIGN LEVELS	83.585	83.750	83.996
EXISTING LEVELS	83.383	83.407	83.500
LEVEL DIFFERENCE	0.202	0.343	0.496
CHAINAGE	0.000	5.388	31.400

ML14 ALIGNMENT
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	2	MINOR AMENDMENTS	SS	CG	GC
13/03/24	1	INITIAL RELEASE	JH	CG	GC

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TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

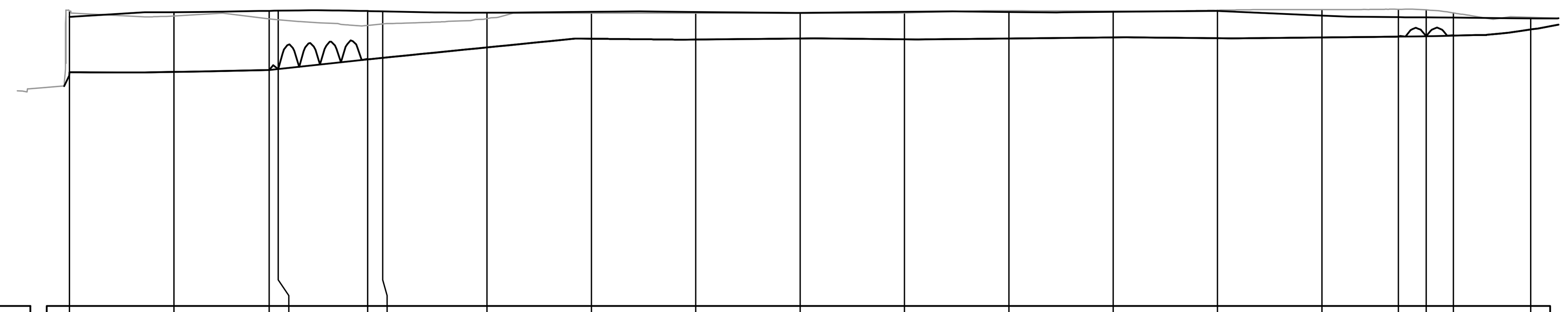
Project Address:
16 JOHNSTON CRESCENT, HORSLEY PARK, NSW 2175 AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
ROADWORKS LONGITUDINAL AND TYPICAL CROSS SECTIONS - SHEET 6

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn JH/SS Date 21/03/2024
CHK CG Date 21/03/2024
Scale: AS SHOWN Sheet: A1 File Name:
Drawing Number S4-CI-NXT-DRG-0000-6015 Rev 2

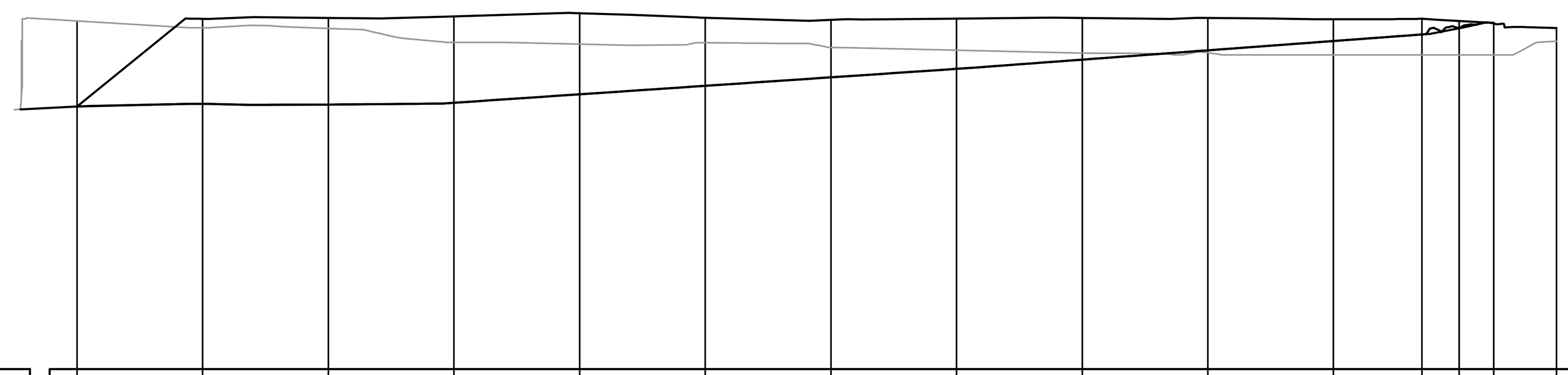


DATUM RL70

BOTTOM OF WALL LEVEL	81.173	81.194	81.281	81.327	81.791	81.863	82.363	82.778	82.739	82.789	82.753	82.789	82.839	82.803	82.839	82.876	82.898	82.930	83.224
TOP OF WALL LEVEL	83.822	84.048	84.112	84.119	84.104	84.088	84.022	84.064	84.060	84.014	84.064	84.060	84.064	84.112	83.887	83.809	83.797	83.787	83.756
WALL HEIGHT	-2.649	-2.854	-2.831	-2.791	-2.314	-2.225	-1.659	-1.286	-1.321	-1.225	-1.311	-1.271	-1.225	-1.309	-1.048	-0.933	-0.899	-0.857	-0.533
EXISTING SURFACE LEVELS	84.095	83.868	83.727	83.682	83.413	83.482	83.741	84.000	84.000	84.000	84.011	84.117	84.100	84.139	84.170	84.187	84.158	84.010	83.806
CHAINAGES	0.000	10.000	19.135	20.000	28.559	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	127.334	130.000	132.604	140.000

RETAINING WALL (RW01) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

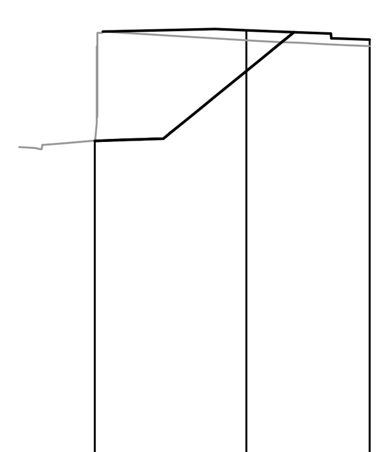


DATUM RL70

BOTTOM OF WALL LEVEL	80.450	80.550	80.523	80.593	80.931	81.269	81.607	81.944	82.311	82.682	83.052	83.314	83.557	83.770	
TOP OF WALL LEVEL	80.450	83.934	83.966	84.031	84.153	83.979	83.891	83.940	83.964	83.969	83.914	83.934	83.849	83.770	
WALL HEIGHT	0.000	-3.384	-3.443	-3.438	-3.222	-2.710	-2.285	-1.995	-1.654	-1.287	-0.862	-0.620	-0.292	0.000	
EXISTING SURFACE LEVELS	83.847	83.575	83.552	83.000	82.931	82.982	82.793	82.689	82.575	82.583	82.500	82.500	82.500	82.500	83.043
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	107.045	110.000	112.744	117.744

RETAINING WALL (RW03) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

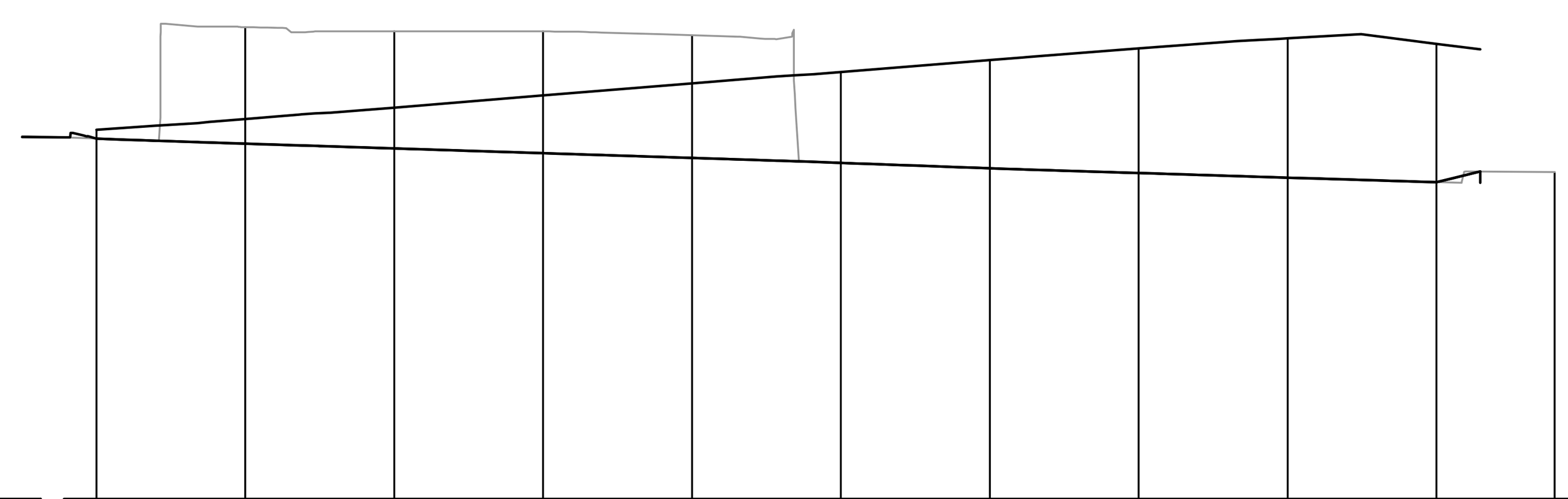


DATUM RL70

BOTTOM OF WALL LEVEL	80.375	82.675	
TOP OF WALL LEVEL		84.026	
WALL HEIGHT		-1.351	
EXISTING SURFACE LEVELS	80.375	83.694	83.499
CHAINAGES	0.000	10.000	18.160

RETAINING WALL (RW05) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250



DATUM RL68

BOTTOM OF WALL LEVEL	80.082	79.913	79.754	79.595	79.436	79.270	79.089	78.929	78.776	78.622	
TOP OF WALL LEVEL	80.382	80.737	81.122	81.529	81.936	82.312	82.719	83.106	83.444	83.262	
WALL HEIGHT	-0.300	-0.824	-1.368	-1.934	-2.500	-3.042	-3.630	-4.177	-4.668	-4.640	
EXISTING SURFACE LEVELS	80.082	83.820	83.682	83.677	83.549	79.270	79.089	78.929	78.776	78.622	78.959
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	97.942

RETAINING WALL (RW07) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	1	INITIAL RELEASE	JH	CG	GC

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TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

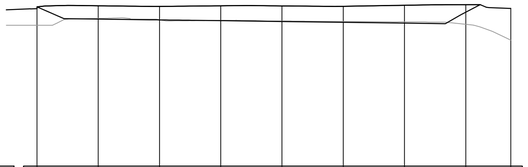
Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
RETAINING WALL LONG SECTIONS SHEET 1

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn: JH/SS | Date: 21/03/2024
CHK: CG | Date: 21/03/2024
Scale: AS SHOWN | Sheet: A1 | File Name:
Drawing Number: S4-CI-NXT-DRG-0000-6100 | Rev: 1

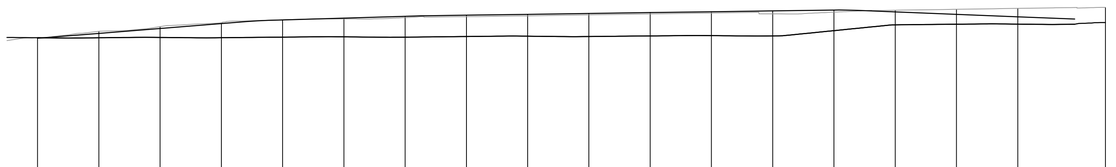


DATUM RL71

BOTTOM OF WALL LEVEL	84.004	84.089	84.038	84.086	84.079	84.047	84.130	84.183	
TOP OF WALL LEVEL	84.004	83.002	82.936	82.872	82.805	82.738	82.671	83.561	
WALL HEIGHT	0.000	1.087	1.100	1.214	1.274	1.309	1.459	0.622	
EXISTING SURFACE LEVELS	82.500	83.054	82.950	82.894	82.846	82.805	82.778	82.572	81.285
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	77.350

RETAINING WALL (RW09) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250



DATUM RL72

BOTTOM OF WALL LEVEL	82.769	82.768	82.794	82.768	82.818	82.844	82.818	82.868	82.894	82.868	82.918	82.944	82.918	83.347	83.822	83.872	83.878		
TOP OF WALL LEVEL	82.723	83.123	83.523	83.923	84.219	84.369	84.519	84.609	84.679	84.749	84.819	84.889	84.959	85.029	84.879	84.679	84.479		
WALL HEIGHT	0.046	-0.355	-0.729	-1.155	-1.401	-1.525	-1.701	-1.741	-1.786	-1.881	-1.901	-1.946	-2.041	-1.682	-1.057	-0.807	-0.601		
EXISTING SURFACE LEVELS	82.764	83.292	83.675	83.991	84.230	84.304	84.410	84.491	84.557	84.633	84.708	84.784	84.716	84.858	85.011	85.088	85.164	85.252	
CHAINAGES	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	174.310	

RETAINING WALL (RW11) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATE	No.	REVISION HISTORY	DRW	CHK	QA
21.03.24	1	INITIAL RELEASE	JH	CG	GC

NOTE:
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ASSOCIATED SPECIFICATION
2. DO NOT SCALE FROM DRAWINGS
3. CONFIRM ALL MEASUREMENTS ON SITE
4. CHECK ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES
5. ENSURE COORDINATION WITH OTHER TRADES ON SITE.
6. ASL = ABOVE SLAB LEVEL

PRINCIPAL CONSULTANTS

Architect: HDR

Services: AURECON

Structural: TTW

PRINCIPAL CONTRACTOR

CLIENT

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{Contractor / Consultant / Document Author}

TTW Structural Civil Traffic Façade

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Document Author Project Number

Key Plan

Site: | Stage: | NEXTDC Project Number:

Project Address:
16 JOHNSTON CRESCENT,
HORSLEY PARK, NSW 2175
AUSTRALIA

Project Name:
NEXT DC DATA CENTRE

Drawing title
RETAINING WALL LONG SECTIONS SHEET 2

Drawing Status:
STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)

Drawn	Date
JH/SS	21/03/2024
CHK	Date
CG	21/03/2024

Scale: AS SHOWN | Sheet: A1 | File Name:

Drawing Number: S4-CI-NXT-DRG-0000-6101 | Rev: 1