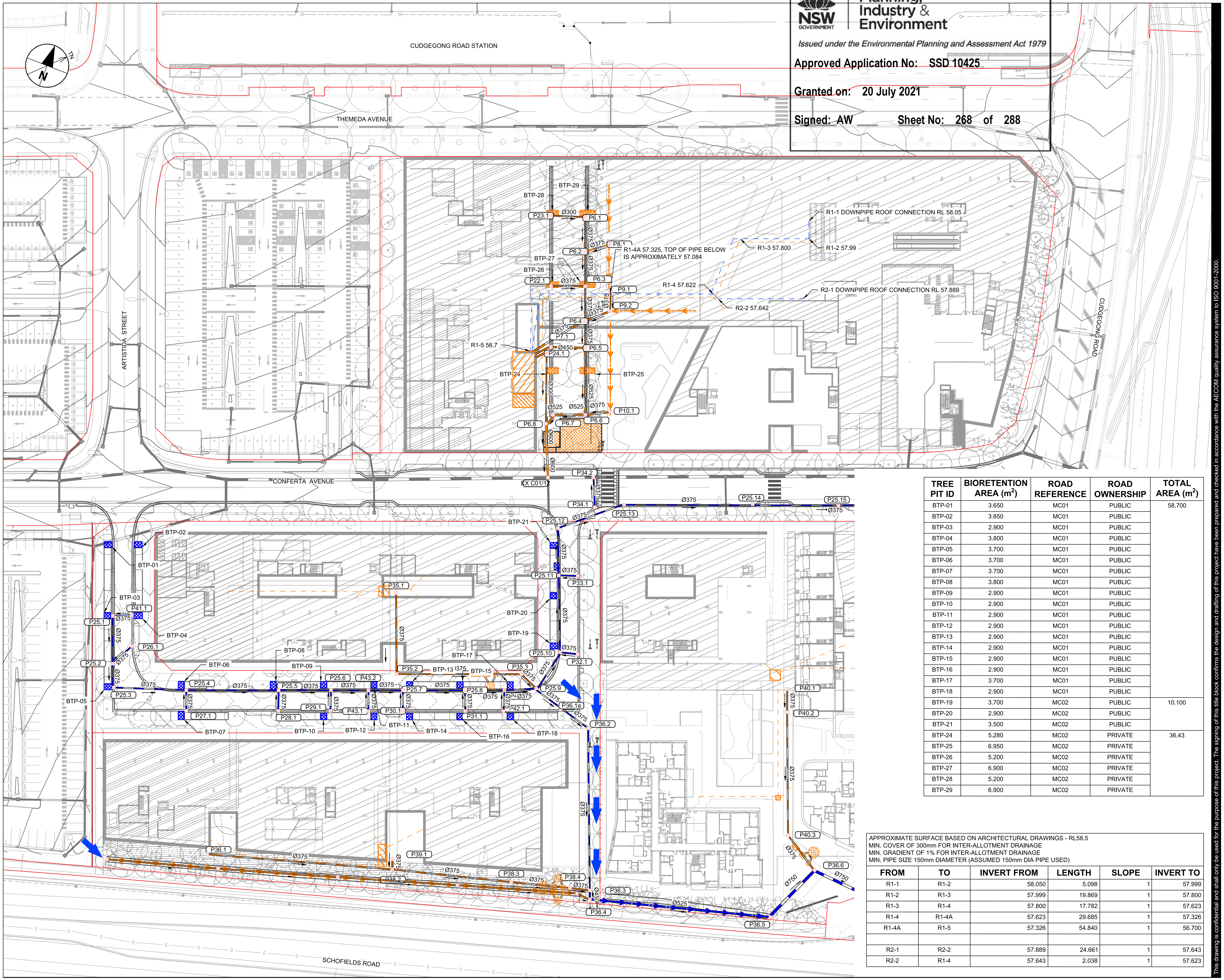
NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW **Sheet No: 268 of 288**



TREE PIT ID	BIORETENTION AREA (m^2)	ROAD REFERENCE	ROAD OWNERSHIP	TOTAL AREA (m^2)
BTP-01	3.650	MC01	PUBLIC	58.700
BTP-02	3.650	MC01	PUBLIC	
BTP-03	2.900	MC01	PUBLIC	
BTP-04	3.800	MC01	PUBLIC	
BTP-05	3.700	MC01	PUBLIC	
BTP-06	3.700	MC01	PUBLIC	
BTP-07	3.700	MC01	PUBLIC	
BTP-08	3.800	MC01	PUBLIC	
BTP-09	2.900	MC01	PUBLIC	
BTP-10	2.900	MC01	PUBLIC	
BTP-11	2.900	MC01	PUBLIC	
BTP-12	2.900	MC01	PUBLIC	
BTP-13	2.900	MC01	PUBLIC	
BTP-14	2.900	MC01	PUBLIC	
BTP-15	2.900	MC01	PUBLIC	
BTP-16	2.900	MC01	PUBLIC	
BTP-17	3.700	MC01	PUBLIC	
BTP-18	2.900	MC01	PUBLIC	
BTP-19	3.700	MC02	PUBLIC	10.100
BTP-20	2.900	MC02	PUBLIC	
BTP-21	3.500	MC02	PUBLIC	
BTP-24	5.280	MC02	PRIVATE	36.43
BTP-25	6.950	MC02	PRIVATE	
BTP-26	5.200	MC02	PRIVATE	
BTP-27	6.900	MC02	PRIVATE	
BTP-28	5.200	MC02	PRIVATE	
BTP-29	6.900	MC02	PRIVATE	

APPROXIMATE SURFACE BASED ON ARCHITECTURAL DRAWINGS - RL58.5
MIN. COVER OF 300mm FOR INTER-ALLOTMENT DRAINAGE
MIN. GRADIENT OF 1% FOR INTER-ALLOTMENT DRAINAGE
MIN. PIPE SIZE 150mm DIAMETER (ASSUMED 150mm DIA PIPE USED)

FROM	TO	INVERT FROM	LENGTH	SLOPE	INVERT TO
R1-1	R1-2	58.050	5.098	1	57.999
R1-2	R1-3	57.999	19.869	1	57.800
R1-3	R1-4	57.800	17.782	1	57.623
R1-4	R1-4A	57.623	29.685	1	57.326
R1-4A	R1-5	57.326	54.840	1	56.700
R2-1	R2-2	57.889	24.661	1	57.643
R2-2	R1-4	57.643	2.038	1	57.623

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT
DEICORP
DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT
AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- 56.5 MAJOR COUNTOURS
- PUBLIC DRAINAGE
- PRIVATE DRAINAGE
- PUBLIC SWALE
- PRIVATE SWALE
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- OVERLAND FLOW PATH
- EXISTING DRAINAGE LINE
- EXISTING RMS DRAINAGE

SCALE BAR
0 12.5 25 m
1:500

PRELIMINARY

PROJECT MANAGEMENT INITIALS

DESIGNER	CHECKED	APPROVED
A.TEOH	G.ROEFFEN	G.ROEFFEN

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	22.03.2021	ISSUE FOR SUBMISSION
1	11.03.2021	ISSUE FOR SUBMISSION

KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE
RAINWATER TANK PIPE RETICULATION
SHEET 01 OF 02

SHEET NUMBER
60618532-SHT-00-0000-CI-0311

Last saved by: LEONDISA(2021-03-22) Last Plotted: 2021-03-22
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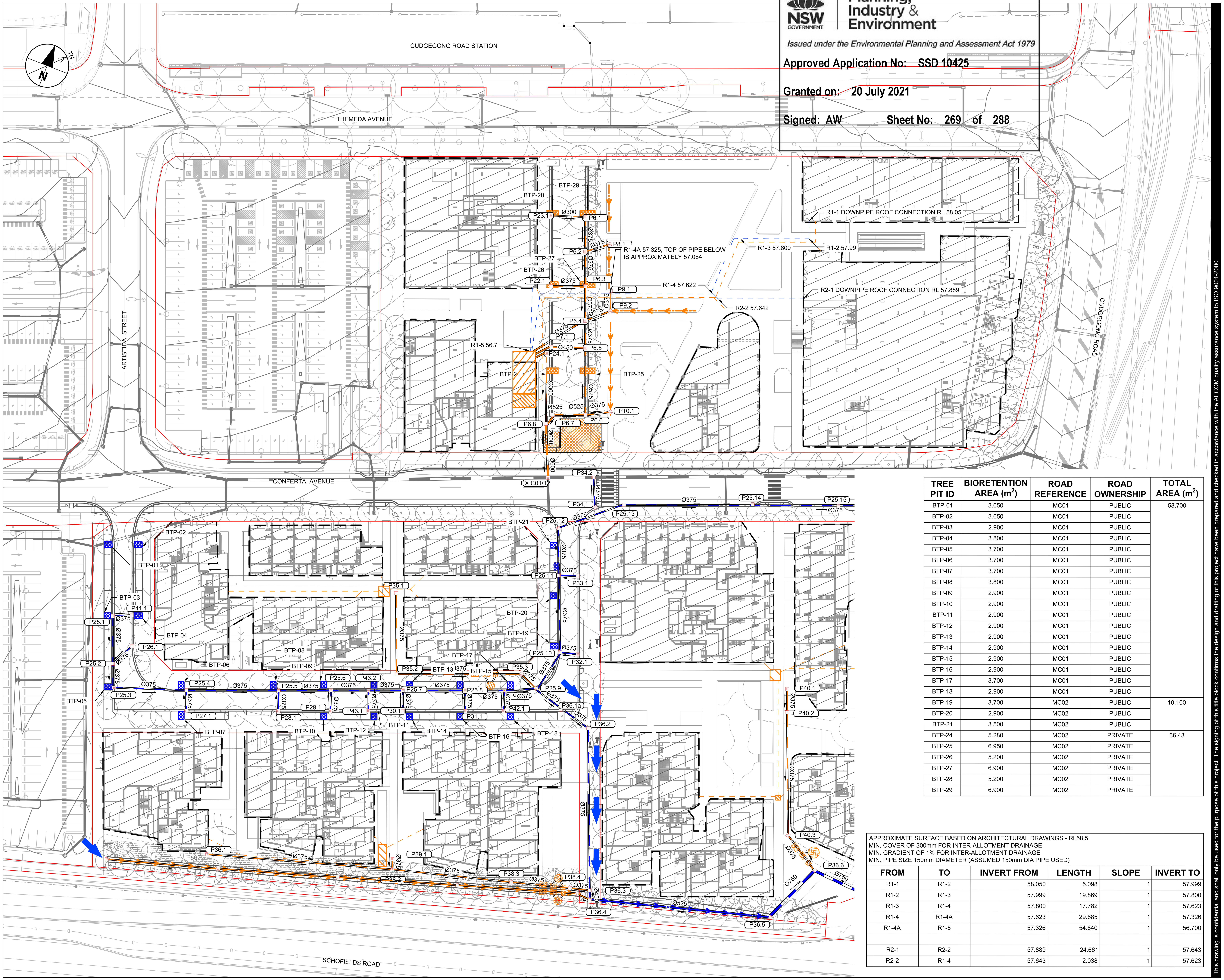
ISO A1 594mm x 841mm



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BTP-05	3.700	MC01	PUBLIC	
BTP-06	3.700	MC01	PUBLIC	
BTP-07	3.700	MC01	PUBLIC	
BTP-08	3.800	MC01	PUBLIC	
BTP-09	2.900	MC01	PUBLIC	
BTP-10	2.900	MC01	PUBLIC	
BTP-11	2.900	MC01	PUBLIC	
BTP-12	2.900	MC01	PUBLIC	
BTP-13	2.900	MC01	PUBLIC	
BTP-14	2.900	MC01	PUBLIC	
BTP-15	2.900	MC01	PUBLIC	
BTP-16	2.900	MC01	PUBLIC	
BTP-17	3.700	MC01	PUBLIC	
BTP-18	2.900	MC01	PUBLIC	
BTP-19	3.700	MC02	PUBLIC	10.100
BTP-20	2.900	MC02	PUBLIC	
BTP-21	3.500	MC02	PUBLIC	
BTP-24	5.280	MC02	PRIVATE	36.43
BTP-25	6.950	MC02	PRIVATE	
BTP-26	5.200	MC02	PRIVATE	
BTP-27	6.900	MC02	PRIVATE	
BTP-28	5.200	MC02	PRIVATE	
BTP-29	6.900	MC02	PRIVATE	

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R1-4A	R1-5	57.326	54.840	1	56.700
R2-1	R2-2	57.889	24.661	1	57.643
R2-2	R1-4	57.643	2.038	1	57.623

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- 56.5 MAJOR COUNTOURS
- PUBLIC DRAINAGE
- PRIVATE DRAINAGE
- PUBLIC SWALE
- PRIVATE SWALE
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- OVERLAND FLOW PATH
- EXISTING DRAINAGE LINE
- EXISTING RMS DRAINAGE

SCALE BAR

0 12.5 25 m
1:500

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TEOH	G.ROEFFEN	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	22.03.2021	ISSUE FOR SUBMISSION
1	11.03.2021	ISSUE FOR SUBMISSION

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

DRAINAGE
RAINWATER TANK PIPE RETICULATION
SHEET 02 OF 02

SHEET NUMBER

60618532-SHT-00-0000-CI-0312

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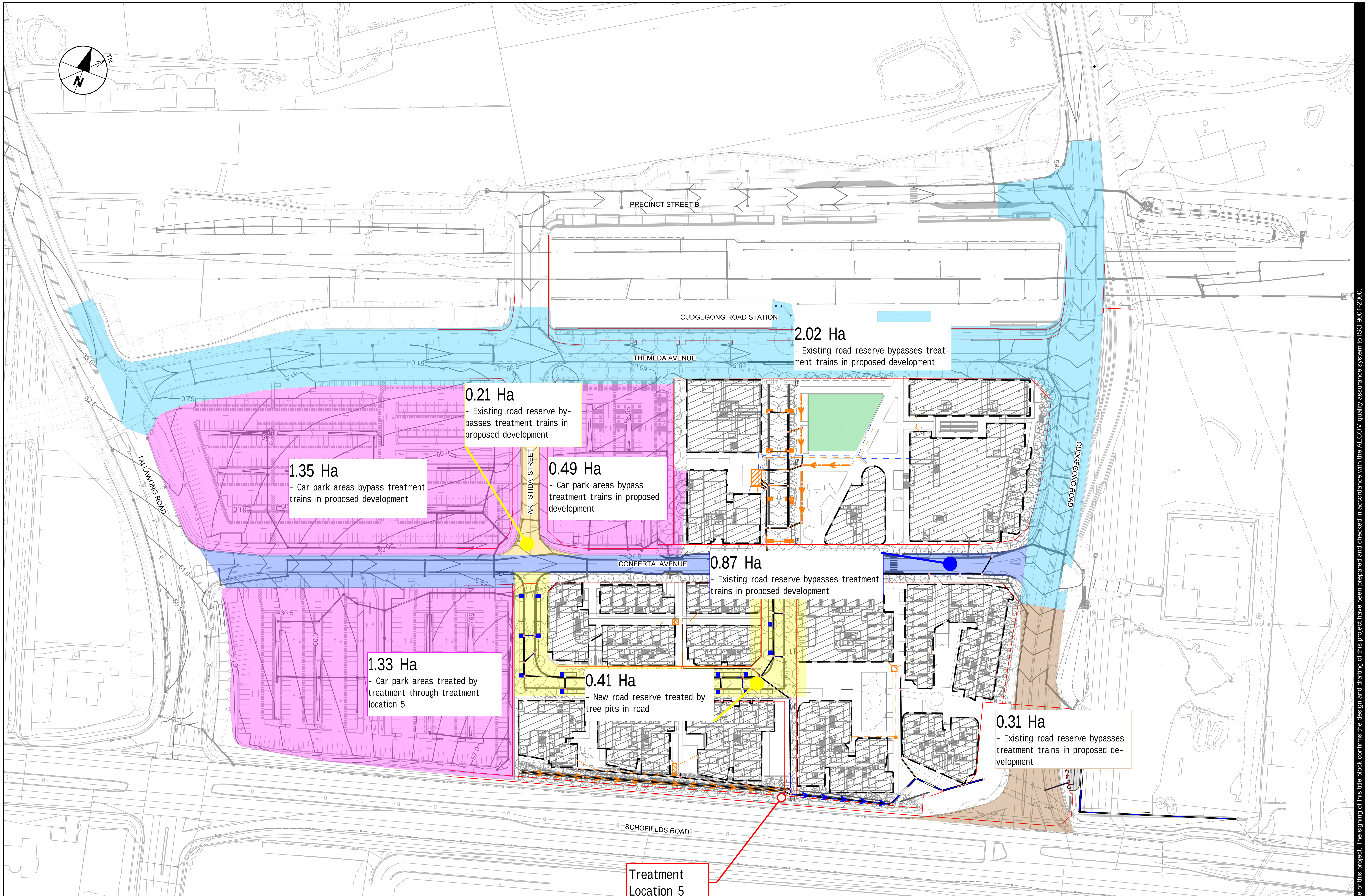

NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW Sheet No: 270 of 288

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
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LEGEND

- DRAINAGE PITS
- EXISTING DRAINAGE LINE
- OVER LAND FLOW PATH
- CARPARK
- PUBLIC PARK TO BE DEDICATED
- THEMEDA AND CUDGEGONG RD
- CONFERTA AVE
- CUDGEGONG RD BYPASS
- NEW PUBLIC ROAD TO BE DEDICATED
- 2.02 Ha CATCHMENT AREA

SCALE BAR

0 25 50 m
1:1000

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TEOH	G.ROEFFEN	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	11.03.2021	ISSUE FOR SUBMISSION

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

WATER SENSITIVE URBAN DESIGN
TALLAWONG PRECINCT PUBLIC STORMWATER CATCHMENTS
SHEET 01 OF 02

SHEET NUMBER

60618532-SHT-00-0000-CI-0321

ISO A1 594mm x 841mm

Last saved by: LEONDISA(2021-03-12) Last Plotted: 2021-03-12
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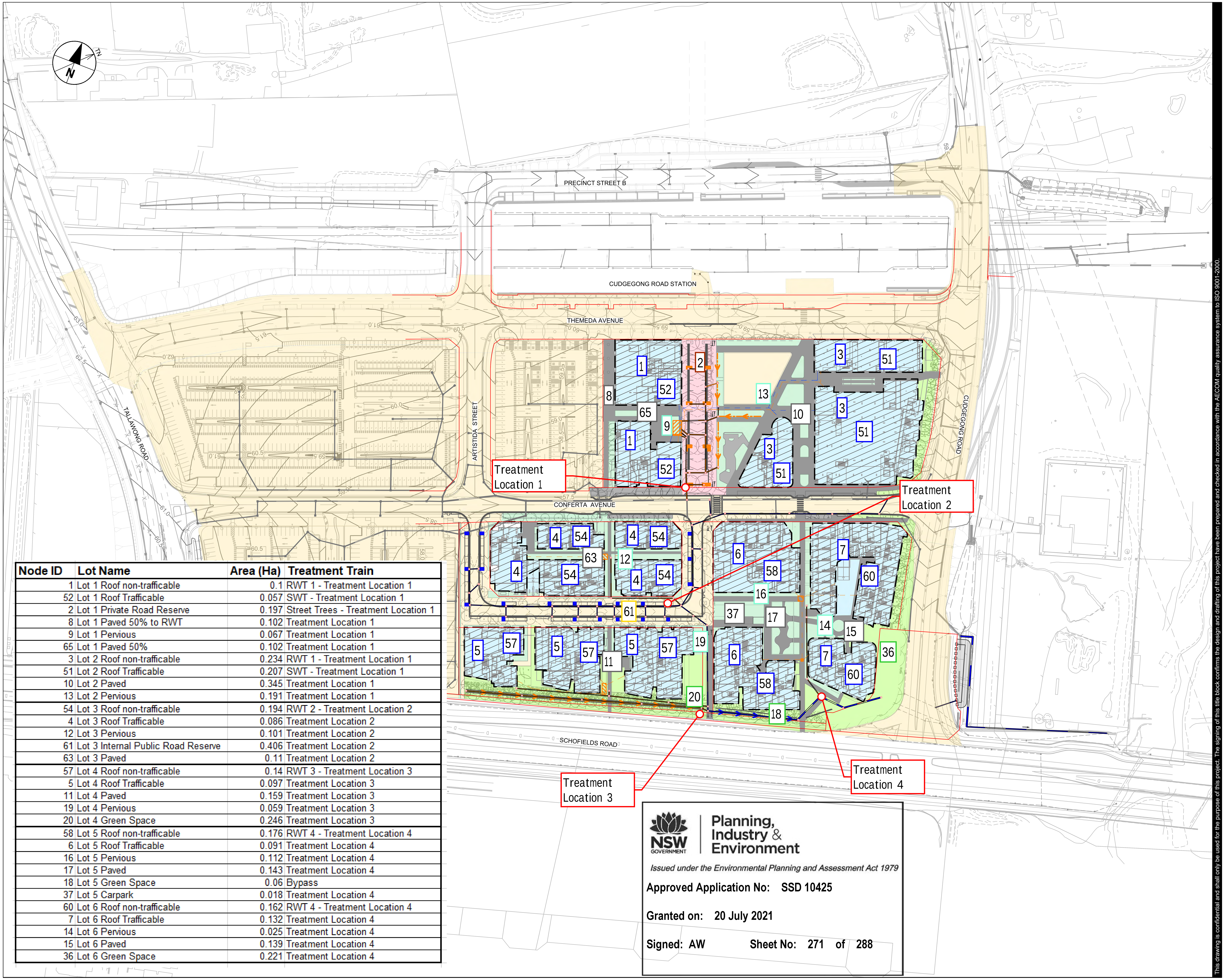

Node ID	Lot Name	Area (Ha)	Treatment Train
1	Lot 1 Roof non-trafficable	0.1	RWT 1 - Treatment Location 1
52	Lot 1 Roof Trafficable	0.057	SWT - Treatment Location 1
2	Lot 1 Private Road Reserve	0.197	Street Trees - Treatment Location 1
8	Lot 1 Paved 50% to RWT	0.102	Treatment Location 1
9	Lot 1 Pervious	0.067	Treatment Location 1
65	Lot 1 Paved 50%	0.102	Treatment Location 1
3	Lot 2 Roof non-trafficable	0.234	RWT 1 - Treatment Location 1
51	Lot 2 Roof Trafficable	0.207	SWT - Treatment Location 1
10	Lot 2 Paved	0.345	Treatment Location 1
13	Lot 2 Pervious	0.191	Treatment Location 1
54	Lot 3 Roof non-trafficable	0.194	RWT 2 - Treatment Location 2
4	Lot 3 Roof Trafficable	0.086	Treatment Location 2
12	Lot 3 Pervious	0.101	Treatment Location 2
61	Lot 3 Internal Public Road Reserve	0.406	Treatment Location 2
63	Lot 3 Paved	0.11	Treatment Location 2
57	Lot 4 Roof non-trafficable	0.14	RWT 3 - Treatment Location 3
5	Lot 4 Roof Trafficable	0.097	Treatment Location 3
11	Lot 4 Paved	0.159	Treatment Location 3
19	Lot 4 Pervious	0.059	Treatment Location 3
20	Lot 4 Green Space	0.246	Treatment Location 3
58	Lot 5 Roof non-trafficable	0.176	RWT 4 - Treatment Location 4
6	Lot 5 Roof Trafficable	0.091	Treatment Location 4
16	Lot 5 Pervious	0.112	Treatment Location 4
17	Lot 5 Paved	0.143	Treatment Location 4
18	Lot 5 Green Space	0.06	Bypass
37	Lot 5 Carpark	0.018	Treatment Location 4
60	Lot 6 Roof non-trafficable	0.162	RWT 4 - Treatment Location 4
7	Lot 6 Roof Trafficable	0.132	Treatment Location 4
14	Lot 6 Pervious	0.025	Treatment Location 4
15	Lot 6 Paved	0.139	Treatment Location 4
36	Lot 6 Green Space	0.221	Treatment Location 4

NSW GOVERNMENT Planning, Industry & Environment

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Signed: AW Sheet No: 271 of 288

ISO A1 594mm x 841mm

Last saved by: LEONDISA(2021-03-12) Last Plotted: 2021-03-12

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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH

CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

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LEGEND

- DRAINAGE PITS
- EXISTING DRAINAGE LINE
- OVER LAND FLOW PATH
- ROOF - See Plan CI-0300 for trafficable/non-trafficable catchments
- PUBLIC AREA
- GREEN SPACE
- LANDSCAPING
- PAVED
- PRIVATE ROAD RESERVE

SCALE BAR

0 25 50 m

1:1000

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TEOH	G.ROEFFEN	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	11.03.2021	ISSUE FOR SUBMISSION

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

WATER SENSITIVE URBAN DESIGN
TALLAWONG PRECINCT PRIVATE STORMWATER CATCHMENTS
SHEET 02 OF 02

SHEET NUMBER

60618532-SHT-00-0000-CI-0322

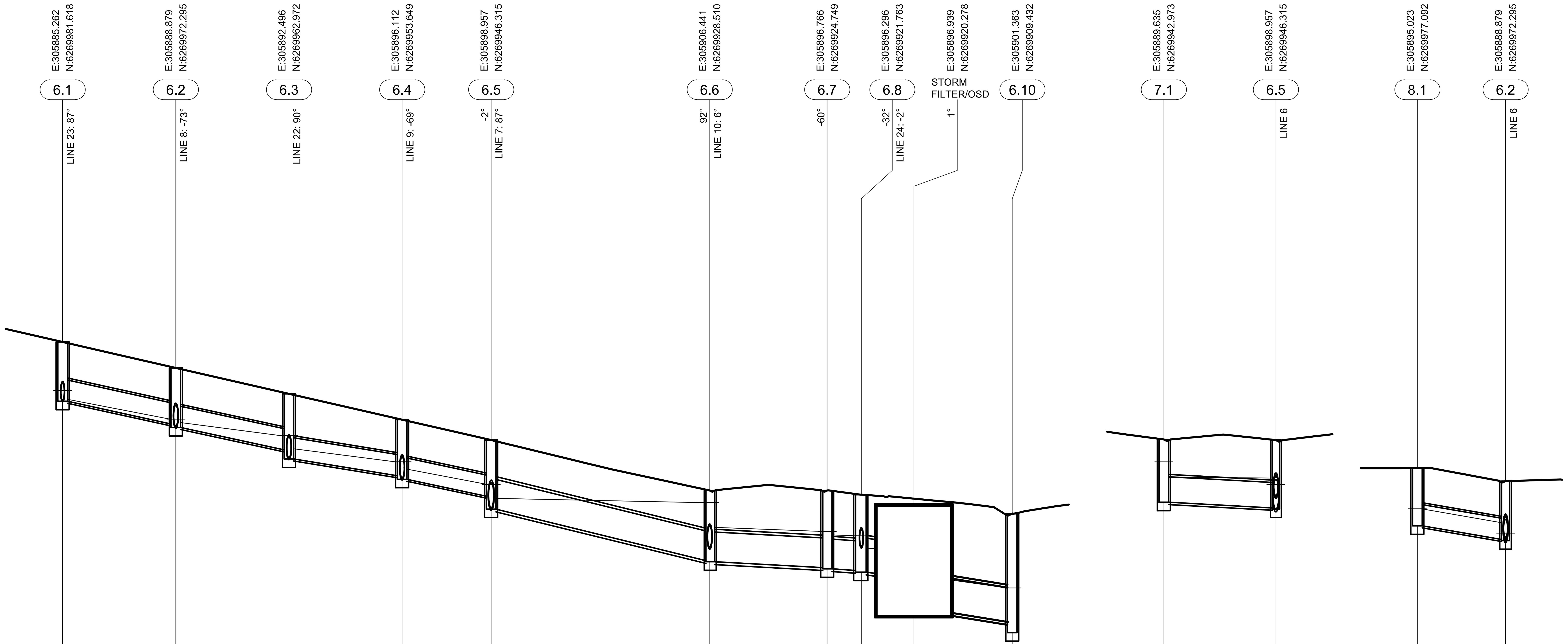
Planning, Industry & Environment
NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW **Sheet No:** 272 of 288



	6.1–6.2	6.2–6.3	6.3–6.4	6.4–6.5	6.5–6.6	6.6–6.7	6.7–6.8	6.8–STORM FILTER/OSD	STORM FILTER/OSD–6.10
PIPE FLOW (L/s) (20yr ARI)	Q=46	Q=46	Q=199	Q=199	Q=374	Q=414	Q=421	Q=529	Q=328
PIPE VELOCITY (m/s)	8.92	2.32	3.82	3.79	5.28	1.91	1.95	2.60	1.16
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø525 RCP Class 4	Ø525 RCP Class 4	Ø525 RCP Class 4	Ø600 RCP Class 4	Ø600 RCP Class 4
PIPE GRADE	4.02% 1 in 25	3.96% 1 in 25	2.97% 1 in 34	3.8% 1 in 26	4.72% 1 in 21	1% 1 in 100	1% 1 in 100	1.36% 1 in 74	1.16% 1 in 86

DATUM (m) 47.00

	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	STORM FILTER/OSD	6.10
FINISHED (& EXISTING) SURFACE LEVEL	58.57	58.11	57.65	57.19	56.83	55.94	55.94	55.87	55.85	55.53
HYDRAULIC GRADE LINE	57.71 57.55	57.20 57.19 57.14	56.91 56.68	56.45 56.45 56.32	56.05 55.80	55.73 55.29	55.22 55.16	55.14 54.92		54.22
INVERT LEVEL	57.52	57.12 57.06	56.66 56.50	56.20 56.14	55.84 55.61	54.70 54.68	54.58 54.56	54.53 54.478	53.8 53.70	53.62 53.43
DEPTH TO INVERT	1.05	0.99 1.05	0.99 1.15	0.99 1.05	0.99 1.22	1.24 1.26	1.36 1.38	1.34 1.37	1.37 2.15	1.91 2.10
PIPE CHAINAGE	0.00	10.00	20.00	30.00	37.87	57.18	67.56	70.58	77.26	83.91

LINE 6

	7.1–6.5
PIPE FLOW (L/s) (20yr ARI)	Q=159
PIPE VELOCITY (m/s)	3.68
PIPE SIZE (mm) & CLASS	Ø450 RCP Class 4
PIPE GRADE	1.01% 1 in 99

DATUM (m) 47.00

	7.1	6.5
FINISHED (& EXISTING) SURFACE LEVEL	56.85	56.83
HYDRAULIC GRADE LINE	56.45 56.18	56.16 56.05 55.80
INVERT LEVEL	55.73	55.63 55.61
DEPTH TO INVERT	1.11	1.20 1.22
PIPE CHAINAGE	0.00	9.90

LINE 7

	8.1–6.2
PIPE FLOW (L/s) (20yr ARI)	Q=0
PIPE VELOCITY (m/s)	0.00
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4
PIPE GRADE	3.09% 1 in 32

DATUM (m) 49.00

	8.1	6.2
FINISHED (& EXISTING) SURFACE LEVEL	58.34	58.11
HYDRAULIC GRADE LINE	57.62	57.38 57.19 57.14
INVERT LEVEL	57.32	57.08 57.06
DEPTH TO INVERT	1.02	1.03 1.05
PIPE CHAINAGE	0.00	7.79

LINE 8

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT
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SCALE BAR
0 6.25 12.5 m H=1:250
0 1.25 2.5 V=1:50

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TOH	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	22.03.2021	ISSUE FOR SUBMISSION
4	25.11.2020	ISSUE FOR SUBMISSION
3	07.05.2020	ISSUE FOR SUBMISSION
2	16.04.2020	ISSUE FOR SUBMISSION
1	03.04.2020	ISSUE FOR REVIEW.

KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE
LONGITUDINAL SECTION
SHEET 01

SHEET NUMBER
60618532-SHT-00-0000-CI-0401

Last saved by: TOHYHA(2021-03-22) Last Plotted: 2021-03-22
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ISO A1 594mm x 841mm

NSW GOVERNMENT Planning, Industry & Environment

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Approved Application No: SSD 10425

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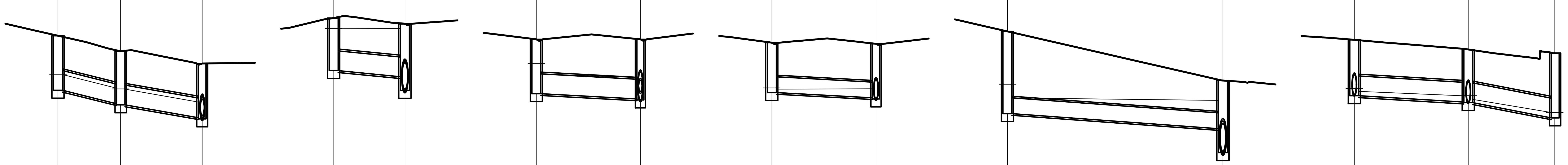
Signed: AW Sheet No: 273 of 288

9.1	E:305899.845 N:6269964.448	
9.2	E:305901.886 N:6269958.860	68°
6.4	E:305896.112 N:6269953.649	LINE 6
10.1	E:305912.440 N:6269931.661	
6.6	E:305906.441 N:6269928.510	LINE 6
22.1	E:305883.266 N:6269959.391	
6.3	E:305892.496 N:6269962.972	LINE 6
23.1	E:305875.866 N:6269978.466	
6.1	E:305885.262 N:6269981.618	LINE 6
24.1	E:305888.945 N:6269940.897	
6.8	E:305896.296 N:6269921.763	LINE 6
25.1	E:305800.283 N:6269822.786	LINE 41: -91°
25.2	E:305804.299 N:6269812.719	2° LINE 26: -88°
25.3	E:305807.033 N:6269804.962	-92°



LINE 9

	9.1	9.2	6.4
PIPE FLOW (L/s) (20yr ARI)	Q=0	Q=0	
PIPE VELOCITY (m/s)	0.00	0.00	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	
PIPE GRADE	4.32% 1 in 23	3.15% 1 in 32	
DATUM (m)	48.00		
FINISHED (& EXISTING) SURFACE LEVEL	57.72	57.42	57.19
HYDRAULIC GRADE LINE	56.98	56.73 56.71	56.46 56.34
INVERT LEVEL	56.68	56.43 56.41	56.16 56.14
DEPTH TO INVERT	1.04	1.00 1.02	1.03 1.05
PIPE CHAINAGE	0.00	5.95	13.73

LINE 10

	10.1	6.6
PIPE FLOW (L/s) (20yr ARI)	Q=10	
PIPE VELOCITY (m/s)	0.09	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	
PIPE GRADE	1.71% 1 in 59	
DATUM (m)	46.00	
FINISHED (& EXISTING) SURFACE LEVEL	56.06	55.94
HYDRAULIC GRADE LINE	55.86	55.86 55.58
INVERT LEVEL	55.06	54.94 54.68
DEPTH TO INVERT	1.00	1.00 1.26
PIPE CHAINAGE	0.00	6.78

LINE 22

	22.1	6.3
PIPE FLOW (L/s) (20yr ARI)	Q=133	
PIPE VELOCITY (m/s)	1.21	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	
PIPE GRADE	1.01% 1 in 99	
DATUM (m)	48.00	
FINISHED (& EXISTING) SURFACE LEVEL	57.65	57.65
HYDRAULIC GRADE LINE	57.19 56.99	56.93 56.68
INVERT LEVEL	56.62	56.52 56.50
DEPTH TO INVERT	1.03	1.13 1.15
PIPE CHAINAGE	0.00	9.90

LINE 23

	23.1	6.1
PIPE FLOW (L/s) (20yr ARI)	Q=7	
PIPE VELOCITY (m/s)	0.60	
PIPE SIZE (mm) & CLASS	Ø300 RCP Class 4	
PIPE GRADE	1.01% 1 in 99	
DATUM (m)	49.00	
FINISHED (& EXISTING) SURFACE LEVEL	58.59	58.57
HYDRAULIC GRADE LINE	57.73 57.70	57.71 57.55
INVERT LEVEL	57.64	57.54 57.52
DEPTH TO INVERT	0.95	1.03 1.05
PIPE CHAINAGE	0.00	9.91

LINE 24

	24.1	6.8
PIPE FLOW (L/s) (20yr ARI)	Q=116	
PIPE VELOCITY (m/s)	1.64	
PIPE SIZE (mm) & CLASS	Ø300 RCP Class 4	
PIPE GRADE	1.39% 1 in 72	
DATUM (m)	47.00	
FINISHED (& EXISTING) SURFACE LEVEL	56.80	55.87
HYDRAULIC GRADE LINE	55.80 55.54	55.49 55.37
INVERT LEVEL	55.24	54.95 54.50
DEPTH TO INVERT	1.56	0.91 1.37
PIPE CHAINAGE	0.00	20.50

LINE 25

	25.1	25.2	25.3
PIPE FLOW (L/s) (20yr ARI)	Q=14	Q=27	
PIPE VELOCITY (m/s)	1.14	2.34	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	
PIPE GRADE	1.11% 1 in 90	3.51% 1 in 28	
DATUM (m)	48.00		
FINISHED (& EXISTING) SURFACE LEVEL	57.64	57.46	57.39
HYDRAULIC GRADE LINE	56.72 56.66	56.58 56.51	56.27 56.26
INVERT LEVEL	56.58	56.46 56.45	56.16
DEPTH TO INVERT	1.06	1.00 1.01	1.23
PIPE CHAINAGE	0.00	10.84	19.06

Last saved by: TOHYHA(2021-03-22) Last Plotted: 2021-03-22
Filename: L:\SECURE\PROJECTS\605X\60585495. CAD\20-SHEETS\60618532-SHT-00-0000-CI-0402.DWG

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT
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DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT
AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

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0 6.25 12.5 m H=1:250
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PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TOH	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	22.03.2021	ISSUE FOR SUBMISSION
4	25.11.2020	ISSUE FOR SUBMISSION
3	07.05.2020	ISSUE FOR SUBMISSION
2	16.04.2020	ISSUE FOR SUBMISSION
1	03.04.2020	ISSUE FOR REVIEW.

KEY PLAN

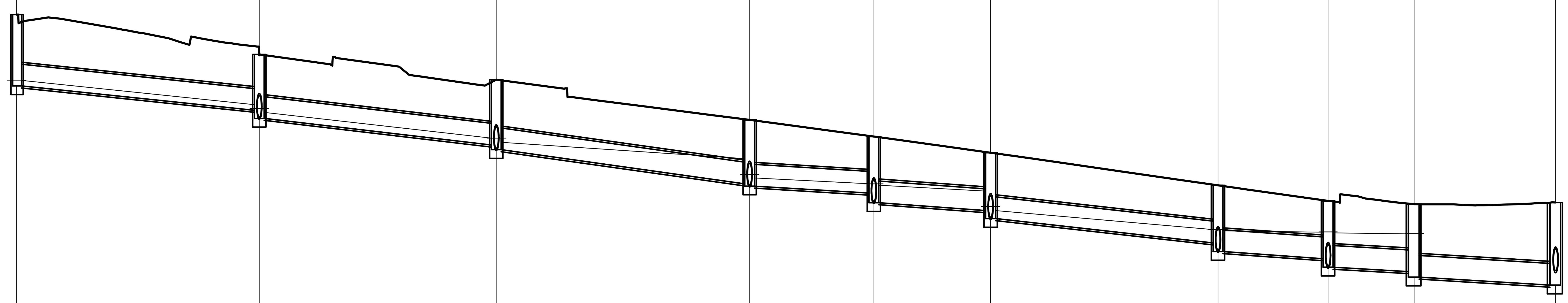
PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE LONGITUDINAL SECTION SHEET 02

SHEET NUMBER
60618532-SHT-00-0000-CI-0402

Planning, Industry & Environment
NSW GOVERNMENT
Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: SSD 10425
Granted on: 20 July 2021
Signed: AW Sheet No: 274 of 288

Pit	25.3	25.4	25.5	25.6	43.2	25.7	25.8	42.2	25.9	25.10
Easting	E:305807.033	E:305826.596	E:305845.769	E:305866.068	E:305876.067	E:305885.466	E:305903.777	E:305912.569	E:305918.763	E:305923.371
Northing	N:6269804.962	N:6269812.489	N:6269819.620	N:6269827.766	N:6269831.635	N:6269835.273	N:6269842.360	N:6269845.969	N:6269850.080	N:6269861.379
Angle	-92°	1°	-1°	1°			-1°	-11°	-34°	-43°
Connecting line		LINE 27: 93°	LINE 28: 91°	LINE 29: 90°	LINE 43: 91°	LINE 30: 90°	LINE 31: 90°	LINE 42: 77°		LINE 32: 85°



Pipe	PIPE FLOW (L/s) (20yr ARI)	PIPE VELOCITY (m/s)	PIPE SIZE (mm) & CLASS	PIPE GRADE
25.3 – 25.4	Q=38	1.73	Ø375 RCP Class 4	2% 1 in 50
25.4 – 25.5	Q=48	1.92	Ø375 RCP Class 4	2.25% 1 in 44
25.5 – 25.6	Q=62	1.88	Ø375 RCP Class 4	2.7% 1 in 37
25.6 – 43.2	Q=71	1.85	Ø375 RCP Class 4	1.12% 1 in 89
43.2 – 25.7	Q=70	1.59	Ø375 RCP Class 4	1.35% 1 in 74
25.7 – 25.8	Q=84	2.28	Ø375 RCP Class 4	2.14% 1 in 47
25.8 – 42.2	Q=85	0.79	Ø375 RCP Class 4	1.29% 1 in 77
42.2 – 25.9	Q=87	0.79	Ø375 RCP Class 4	1.01% 1 in 99
25.9 – 25.10	Q=0		Ø375 RCP Class 4	1.13% 1 in 88

DATUM (m) 46.00

Pit	FINISHED (& EXISTING) SURFACE LEVEL	HYDRAULIC GRADE LINE	INVERT LEVEL	DEPTH TO INVERT	PIPE CHAINAGE
25.3	57.39	56.27 / 56.26	56.16	1.23	19.06
25.4	56.71	55.84 / 55.77 / 55.70	55.74 / 55.60	0.97 / 1.11	40.02
25.5	56.27	55.26 / 55.19	55.14 / 55.06	1.13 / 1.21	60.48
25.6	55.57	54.91 / 54.63 / 54.57	54.47 / 54.43	1.10 / 1.14	82.35
43.2	55.29	54.47 / 54.45	54.31 / 54.14	0.98 / 1.14	93.07
25.7	55.01	54.34 / 54.08 / 54.01	54.01 / 53.87	1.00 / 1.14	103.15
25.8	54.44	53.68 / 53.66	53.45 / 53.30	0.99 / 1.14	122.79
42.2	54.18	53.64 / 53.62	53.18 / 53.03	1.00 / 1.15	132.29
25.9	54.12	53.61	52.95 / 52.86	1.16 / 1.26	139.72
25.10	54.15		52.72	1.43	151.93

LINE 25

AECOM

PROJECT
TALLAWONG STATION
PRECINCT SOUTH
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PRELIMINARY

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DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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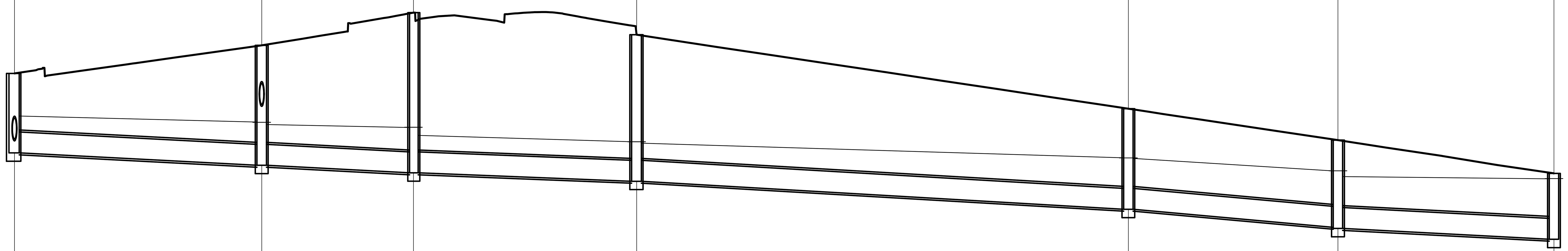
KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE
LONGITUDINAL SECTION
SHEET 03

SHEET NUMBER
60618532-SHT-00-0000-CI-0403

Pit	25.10	25.11	25.12	25.13	25.14	25.15	25.16
Coordinates	E:305923.371 N:6269861.379	E:305915.629 N:6269882.185	E:305910.249 N:6269894.698	E:305925.678 N:6269907.492	E:305966.843 N:6269923.462	E:305984.388 N:6269930.269	E:306002.470 N:6269937.284
Angle	-43° LINE 32: 85°	-3° LINE 33: 86°	74°	18°			2°



	25.10–25.11	25.11–25.12	25.12–25.13	25.13–25.14	25.14–25.15	25.15–25.16
PIPE FLOW (L/s) (20yr ARI)	Q=156	Q=163	Q=162	Q=146	Q=145	Q=146
PIPE VELOCITY (m/s)	1.42	1.47	1.46	1.32	1.32	1.32
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4
PIPE GRADE	1% 1 in 100	1% 1 in 100	0.75% 1 in 133	1.14% 1 in 88	1.72% 1 in 58	1% 1 in 100

DATUM (m) 44.00

	25.10	25.11	25.12	25.13	25.14	25.15	25.16
FINISHED (& EXISTING) SURFACE LEVEL	54.15	54.65	55.24	54.84	53.51	52.95	52.35
HYDRAULIC GRADE LINE	53.38	53.27 / 53.23	53.18 / 53.03	52.92 / 52.90	52.63 / 52.62	52.40 / 52.30	52.26
INVERT LEVEL	52.72	52.50	52.36	52.21	51.71	51.39 / 51.37	51.17 / 51.17
DEPTH TO INVERT	1.43	2.15	2.87	2.63	1.80	1.56 / 1.58	1.18 / 1.18
PIPE CHAINAGE	151.93	174.13	187.75	207.79	251.95	270.76	290.16

LINE 25

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

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PRELIMINARY

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KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE LONGITUDINAL SECTION SHEET 04

SHEET NUMBER
60618532-SHT-00-0000-CI-0404

ISO A1 594mm x 841mm

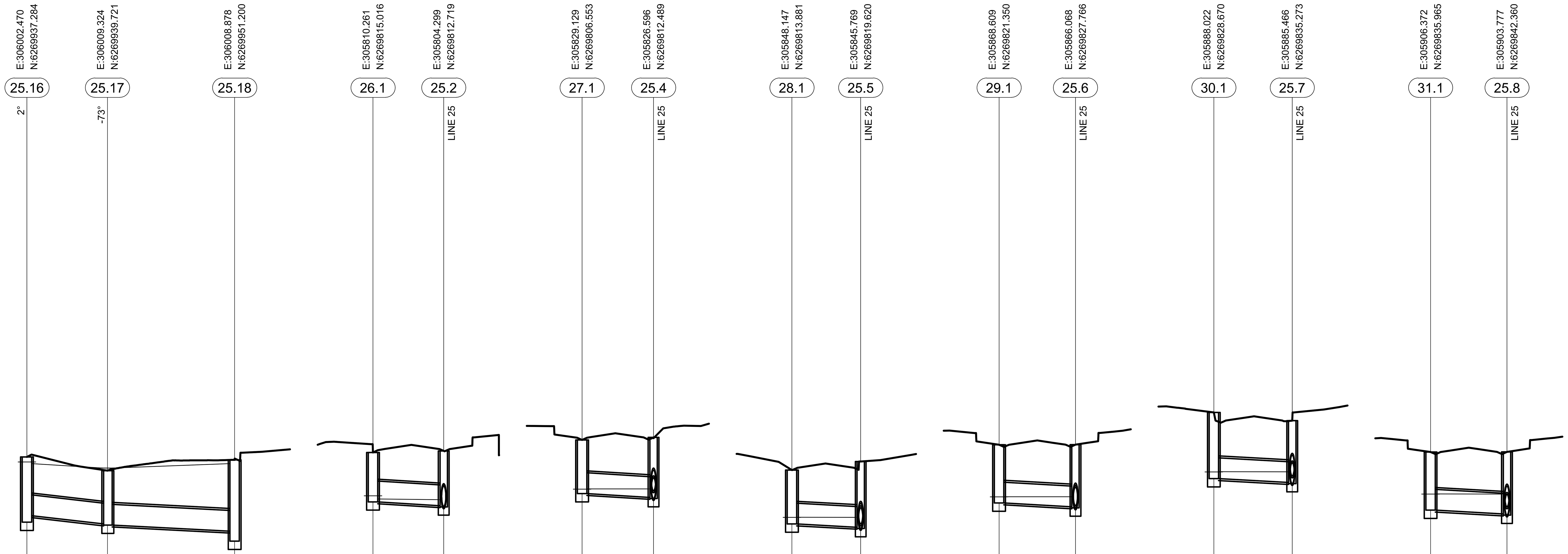
Planning, Industry & Environment
NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW **Sheet No:** 276 of 288



LINE 25

PIPE FLOW (L/s) (20yr ARI)	Q=146	Q=138
PIPE VELOCITY (m/s)	1.32	1.25
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4
PIPE GRADE	2.06% 1 in 48	0.96% 1 in 104
DATUM (m)	43.00	

FINISHED (& EXISTING) SURFACE LEVEL	52.35		52.10		52.30	
HYDRAULIC GRADE LINE	52.26	52.23		52.15	52.23	52.23
INVERT LEVEL	51.17 51.17	51.29	51.14	51.12	51.01	50.83
DEPTH TO INVERT	1.18 1.18	1.06	0.96	0.98	1.29	1.47
PIPE CHAINAGE		290.16		297.43		308.92

LINE 26

PIPE FLOW (L/s) (20yr ARI)	Q=12			
PIPE VELOCITY (m/s)	1.33			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	1.1% 1 in 91			
DATUM (m)	48.00			
FINISHED (& EXISTING) SURFACE LEVEL	57.43		57.46	
HYDRAULIC GRADE LINE	56.65	56.59	56.58	56.51
INVERT LEVEL		56.54	56.47	56.45
DEPTH TO INVERT		0.89	0.99	1.01
PIPE CHAINAGE		0.00		6.39

LINE 27

PIPE FLOW (L/s) (20yr ARI)	Q=1			
PIPE VELOCITY (m/s)	0.05			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	1.08% 1 in 92			
DATUM (m)	47.00			
FINISHED (& EXISTING) SURFACE LEVEL	56.66		56.71	
HYDRAULIC GRADE LINE		55.77	55.77	55.70
INVERT LEVEL		55.69	55.62	55.60
DEPTH TO INVERT		0.97	1.09	1.11
PIPE CHAINAGE		0.00		6.45

LINE 28

PIPE FLOW (L/s) (20yr ARI)	Q=1			
PIPE VELOCITY (m/s)	0.04			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	0.97% 1 in 104			
DATUM (m)	47.00			
FINISHED (& EXISTING) SURFACE LEVEL	56.11		56.27	
HYDRAULIC GRADE LINE		55.26	55.26	55.19
INVERT LEVEL		55.14	55.08	55.06
DEPTH TO INVERT		0.97	1.19	1.21
PIPE CHAINAGE		0.00		6.21

LINE 29

PIPE FLOW (L/s) (20yr ARI)	Q=1			
PIPE VELOCITY (m/s)	0.04			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	1.01% 1 in 99			
DATUM (m)	46.00			
FINISHED (& EXISTING) SURFACE LEVEL	55.57		55.57	
HYDRAULIC GRADE LINE		54.63	54.63	54.57
INVERT LEVEL		54.52	54.45	54.43
DEPTH TO INVERT		1.05	1.12	1.14
PIPE CHAINAGE		0.00		6.90

LINE 30

PIPE FLOW (L/s) (20yr ARI)	Q=2			
PIPE VELOCITY (m/s)	0.07			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	0.99% 1 in 101			
DATUM (m)	45.00			
FINISHED (& EXISTING) SURFACE LEVEL	55.16		55.01	
HYDRAULIC GRADE LINE	54.08	54.09	54.08	54.01
INVERT LEVEL		53.96	53.89	53.87
DEPTH TO INVERT		1.20	1.12	1.14
PIPE CHAINAGE		0.00		7.08

LINE 31

PIPE FLOW (L/s) (20yr ARI)	Q=5			
PIPE VELOCITY (m/s)	0.05			
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4			
PIPE GRADE	1.01% 1 in 99			
DATUM (m)	45.00			
FINISHED (& EXISTING) SURFACE LEVEL	54.44		54.44	
HYDRAULIC GRADE LINE		53.68	53.68	53.66
INVERT LEVEL		53.39	53.32	53.30
DEPTH TO INVERT		1.05	1.12	1.14
PIPE CHAINAGE		0.00		6.90

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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

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PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TOH	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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1	03.04.2020	ISSUE FOR REVIEW.

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

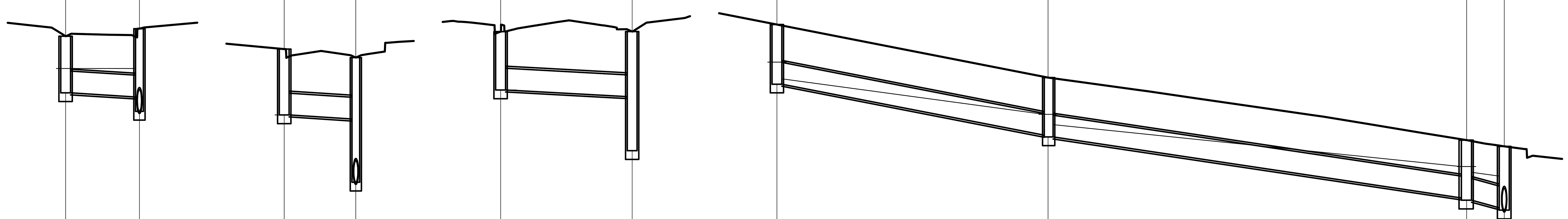
DRAINAGE
LONGITUDINAL SECTION
SHEET 05

SHEET NUMBER

60618532-SHT-00-0000-CI-0405

NSW GOVERNMENT | Planning, Industry & Environment
Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: SSD 10425
Granted on: 20 July 2021
Signed: AW Sheet No: 277 of 288

32.1	E:305929.523 N:6269863.045	
25.10	E:305923.371 N:6269861.379	LINE 25
33.1	E:305921.456 N:6269884.251	
25.11	E:305915.629 N:6269882.185	LINE 25
34.1	E:305918.284 N:6269904.251	
34.2	E:305913.703 N:6269914.645	
35.1	E:305873.627 N:6269860.372	
35.2	E:305882.198 N:6269838.586	-90°
35.3	E:305915.895 N:6269851.628	48°
36.1	E:305918.788 N:6269850.148	LINE 36



LINE 32

	32.1 – 25.10
PIPE FLOW (L/s) (20yr ARI)	Q=20
PIPE VELOCITY (m/s)	0.18
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4
PIPE GRADE	1.1% 1 in 91
DATUM (m)	44.00
FINISHED (& EXISTING) SURFACE LEVEL	54.02 / 54.15
HYDRAULIC GRADE LINE	53.46 / 53.46, 53.38
INVERT LEVEL	53.04 / 52.97, 52.72
DEPTH TO INVERT	0.98 / 1.18, 1.43
PIPE CHAINAGE	0.00 / 6.37

LINE 33

	33.1 – 25.11
PIPE FLOW (L/s) (20yr ARI)	Q=0
PIPE VELOCITY (m/s)	0.00
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4
PIPE GRADE	1.13% 1 in 88
DATUM (m)	45.00
FINISHED (& EXISTING) SURFACE LEVEL	54.79 / 54.65
HYDRAULIC GRADE LINE	53.66 / 53.59, 53.23
INVERT LEVEL	53.66 / 53.59, 52.50
DEPTH TO INVERT	1.13 / 1.06, 2.15
PIPE CHAINAGE	0.00 / 6.18

LINE 34

	34.1 – 34.2
PIPE FLOW (L/s) (20yr ARI)	Q=0
PIPE VELOCITY (m/s)	0.00
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4
PIPE GRADE	1% 1 in 100
DATUM (m)	45.00
FINISHED (& EXISTING) SURFACE LEVEL	55.10 / 55.10
HYDRAULIC GRADE LINE	
INVERT LEVEL	54.09 / 53.98, 53.04
DEPTH TO INVERT	1.01 / 1.12, 2.05
PIPE CHAINAGE	0.00 / 11.36

LINE 35

	35.1 – 35.2	35.2 – 35.3	35.3 – 36.1
PIPE FLOW (L/s) (20yr ARI)	Q=198	Q=204	Q=199
PIPE VELOCITY (m/s)	9.36	3.37	1.81
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4
PIPE GRADE	3.76% 1 in 27	2.67% 1 in 37	4% 1 in 25
DATUM (m)	46.00		
FINISHED (& EXISTING) SURFACE LEVEL	56.22 / 55.30	/ 54.23	/ 54.12
HYDRAULIC GRADE LINE	55.57, 55.28 / 54.67	54.49 / 53.77	53.67 / 53.61, 53.44
INVERT LEVEL	55.19 / 54.31	54.28 / 53.23	53.19 / 53.06, 53.02
DEPTH TO INVERT	1.03 / 0.99	1.02 / 1.00	1.04 / 1.06, 1.10
PIPE CHAINAGE	0.00	23.41	59.54 / 62.79

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

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DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

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SCALE BAR
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PRELIMINARY

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DESIGNER	CHECKED	APPROVED

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KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE
LONGITUDINAL SECTION
SHEET 06

SHEET NUMBER
60618532-SHT-00-0000-CI-0406

![NSW Government] **Planning, Industry & Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

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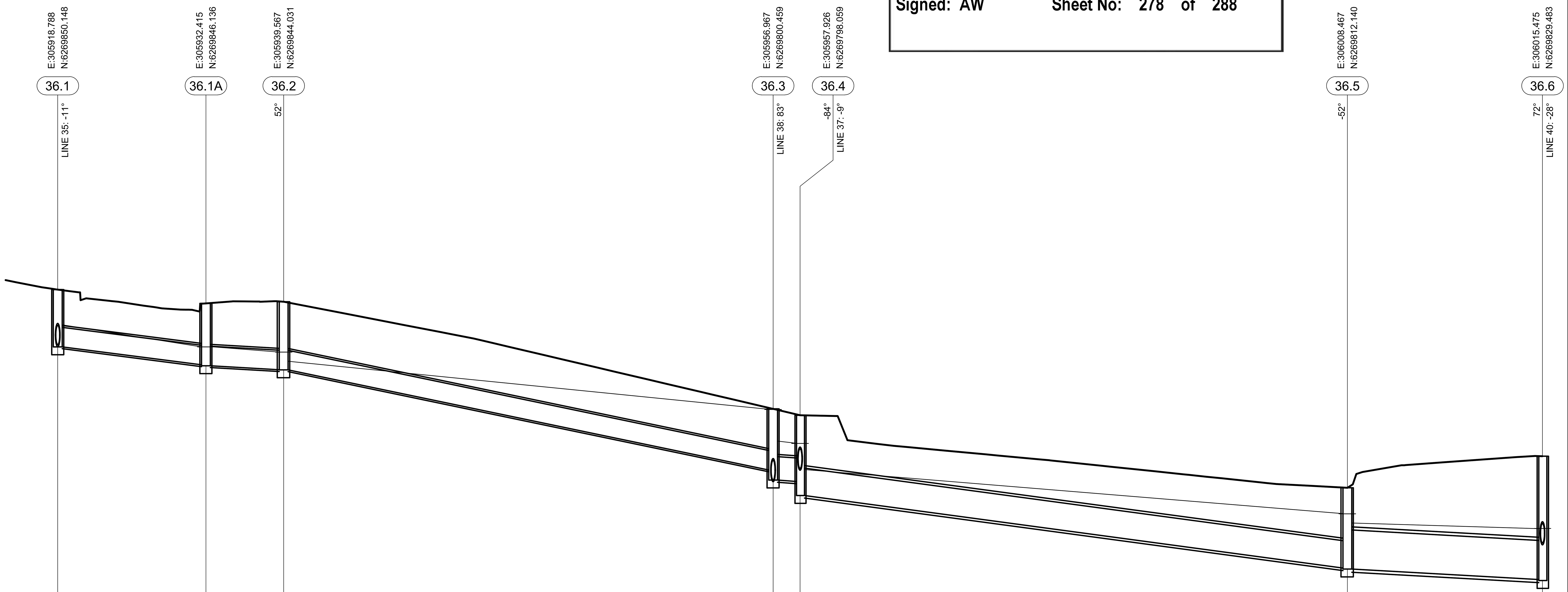

	36.1 – 36.1A	36.1A – 36.2	36.2 – 36.3	36.3 – 36.4	36.4 – 36.5	36.5 – 36.6
PIPE FLOW (L/s) (20yr ARI)	Q=160	Q=169	Q=188	Q=483	Q=566	Q=874
PIPE VELOCITY (m/s)	4.10	1.76	4.03	3.04	2.66	1.98
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø375 RCP Class 4	Ø450 RCP Class 4	Ø525 RCP Class 4	Ø750 RCP Class 4
PIPE GRADE	2.42% 1 in 41	1.02% 1 in 98	4.09% 1 in 24	1.01% 1 in 99	2.65% 1 in 38	1.07% 1 in 94

DATUM (m) 42.00

	36.1	36.1A	36.2	36.3	36.4	36.5	36.6
FINISHED (& EXISTING) SURFACE LEVEL	54.12	53.85	53.89	51.83	51.71	50.32	50.92
HYDRAULIC GRADE LINE	53.44	53.02	52.92 52.74	51.82 51.21	51.17 50.67	49.82 49.64	49.54
INVERT LEVEL	53.02	52.68 52.66	52.58	50.66 50.47	50.44 50.17	48.78 48.76	48.56
DEPTH TO INVERT	1.10	1.18 1.20	1.31	1.17 1.37	1.27 1.54	1.54 1.56	2.36
PIPE CHAINAGE	0.00	14.21	21.66	68.58	71.16	123.63	142.33

LINE 36

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

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PRELIMINARY

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DESIGNER	CHECKED	APPROVED

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KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

DRAINAGE
LONGITUDINAL SECTION
SHEET 07

SHEET NUMBER

60618532-SHT-00-0000-CI-0407

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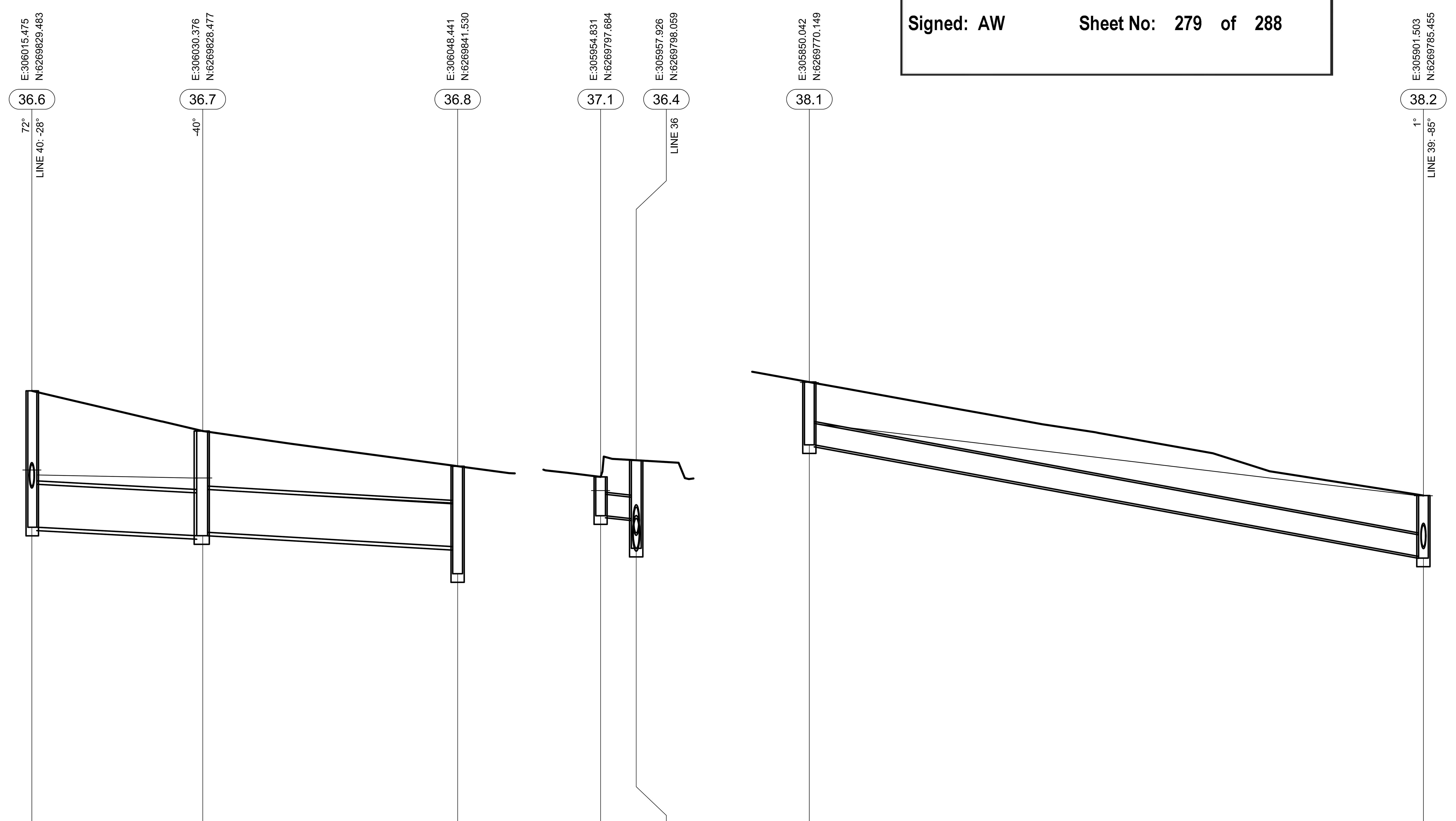

	36.6	36.6–36.7	36.7	36.7–36.8	36.8
PIPE FLOW (L/s) (20yr ARI)		Q=1109		Q=1109	
PIPE VELOCITY (m/s)		2.51		2.67	
PIPE SIZE (mm) & CLASS		Ø750 RCP Class 4		Ø750 RCP Class 4	
PIPE GRADE		1% 1 in 100		1.12% 1 in 89	
DATUM (m)	40.00				
FINISHED (& EXISTING) SURFACE LEVEL	50.92		50.22		49.61
HYDRAULIC GRADE LINE	49.54 / 49.45		49.40 / 49.20		48.97 / 48.97
INVERT LEVEL	48.56 / 48.54		48.39 / 48.39 / 48.45		48.20 / 47.73
DEPTH TO INVERT	2.36 / 2.38		1.83 / 1.83 / 1.77		1.41 / 1.88
PIPE CHAINAGE	142.33		157.27		179.56

LINE 36

	37.1	37.1–36.4	36.4
PIPE FLOW (L/s) (20yr ARI)		Q=0	
PIPE VELOCITY (m/s)		1.21	
PIPE SIZE (mm) & CLASS		Ø375 RCP Class 4	
PIPE GRADE		1.6% 1 in 62	
DATUM (m)	42.00		
FINISHED (& EXISTING) SURFACE LEVEL	51.42		51.71
HYDRAULIC GRADE LINE	51.18		50.67
INVERT LEVEL	50.74		50.69 / 50.17
DEPTH TO INVERT	0.68		1.02 / 1.54
PIPE CHAINAGE	0.00		3.12

LINE 37

	38.1	38.1–38.2	38.2
PIPE FLOW (L/s) (20yr ARI)		Q=277	
PIPE VELOCITY (m/s)		2.51	
PIPE SIZE (mm) & CLASS		Ø375 RCP Class 4	
PIPE GRADE		3.63% 1 in 28	
DATUM (m)	45.00		
FINISHED (& EXISTING) SURFACE LEVEL	56.08		54.09
HYDRAULIC GRADE LINE	56.07 / 55.35		54.09
INVERT LEVEL	54.98		53.03
DEPTH TO INVERT	1.10		1.06
PIPE CHAINAGE	0.00		53.69

LINE 38

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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 6.25 12.5 m H=1:250
0 1.25 2.5 V=1:50

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TOH	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	22.03.2021	ISSUE FOR SUBMISSION
4	25.11.2020	ISSUE FOR SUBMISSION
3	07.05.2020	ISSUE FOR SUBMISSION
2	16.04.2020	ISSUE FOR SUBMISSION
1	03.04.2020	ISSUE FOR REVIEW.

KEY PLAN

PROJECT NUMBER

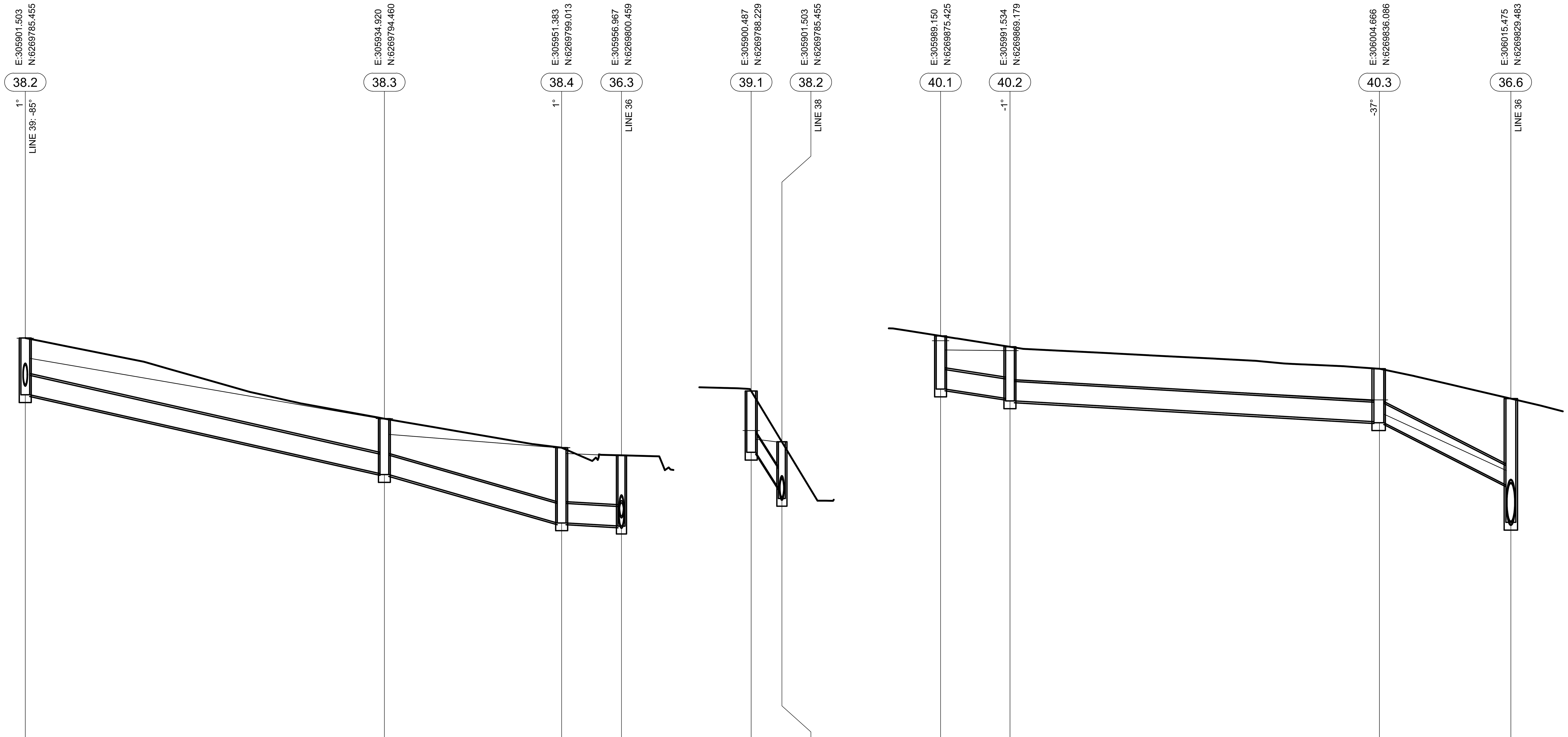
60618532

SHEET TITLE

DRAINAGE
LONGITUDINAL SECTION
SHEET 08

SHEET NUMBER

60618532-SHT-00-0000-CI-0408



LINE 38

	38.2		38.3		38.4		36.3
PIPE FLOW (L/s) (20yr ARI)		Q=320		Q=295		Q=291	
PIPE VELOCITY (m/s)		2.90		2.67		2.64	
PIPE SIZE (mm) & CLASS		Ø375 RCP Class 4		Ø375 RCP Class 4		Ø375 RCP Class 4	
PIPE GRADE		4.39% 1 in 23		5.46% 1 in 18		1.01% 1 in 99	
DATUM (m)	43.00						
FINISHED (& EXISTING) SURFACE LEVEL	54.09		52.54		51.98		51.83
HYDRAULIC GRADE LINE	54.09 53.70		52.54 52.24		51.98 51.87		51.82 51.21
INVERT LEVEL	53.03 53.00		51.48 51.46		50.53		50.47
DEPTH TO INVERT	1.06 1.09		1.06 1.08		1.45		1.37
PIPE CHAINAGE	53.69		88.30		105.38		111.15

LINE 39

	39.1		38.2
PIPE FLOW (L/s) (20yr ARI)		Q=93	
PIPE VELOCITY (m/s)		1.18	
PIPE SIZE (mm) & CLASS		Ø375 RCP Class 4	
PIPE GRADE		23.36% 1 in 4	
DATUM (m)	45.00		
FINISHED (& EXISTING) SURFACE LEVEL	55.07		54.09
HYDRAULIC GRADE LINE	54.31 54.14		54.09 53.70
INVERT LEVEL	53.89		53.20 53.00
DEPTH TO INVERT	1.18		0.89 1.09
PIPE CHAINAGE	0.00		2.95

LINE 40

	40.1		40.2		40.3		36.6
PIPE FLOW (L/s) (20yr ARI)		Q=86		Q=197		Q=238	
PIPE VELOCITY (m/s)		0.78		1.79		4.95	
PIPE SIZE (mm) & CLASS		Ø375 RCP Class 4		Ø375 RCP Class 4		Ø375 RCP Class 4	
PIPE GRADE		2.69% 1 in 37		1.12% 1 in 89		9.47% 1 in 11	
DATUM (m)	41.00						
FINISHED (& EXISTING) SURFACE LEVEL	52.13		51.93		51.50		50.92
HYDRAULIC GRADE LINE	52.04 51.86		51.85 51.28		50.90 50.63		49.54 49.45
INVERT LEVEL	51.11		50.93 50.88		50.48 50.46		49.26 48.54
DEPTH TO INVERT	1.02		1.00 1.05		1.02 1.04		1.66 2.38
PIPE CHAINAGE	0.00		6.69		42.29		54.96

AECOM

PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

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0 6.25 12.5 m H=1:250
0 1.25 2.5 V=1:50

PRELIMINARY

PROJECT MANAGEMENT INITIALS

A.TOH	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

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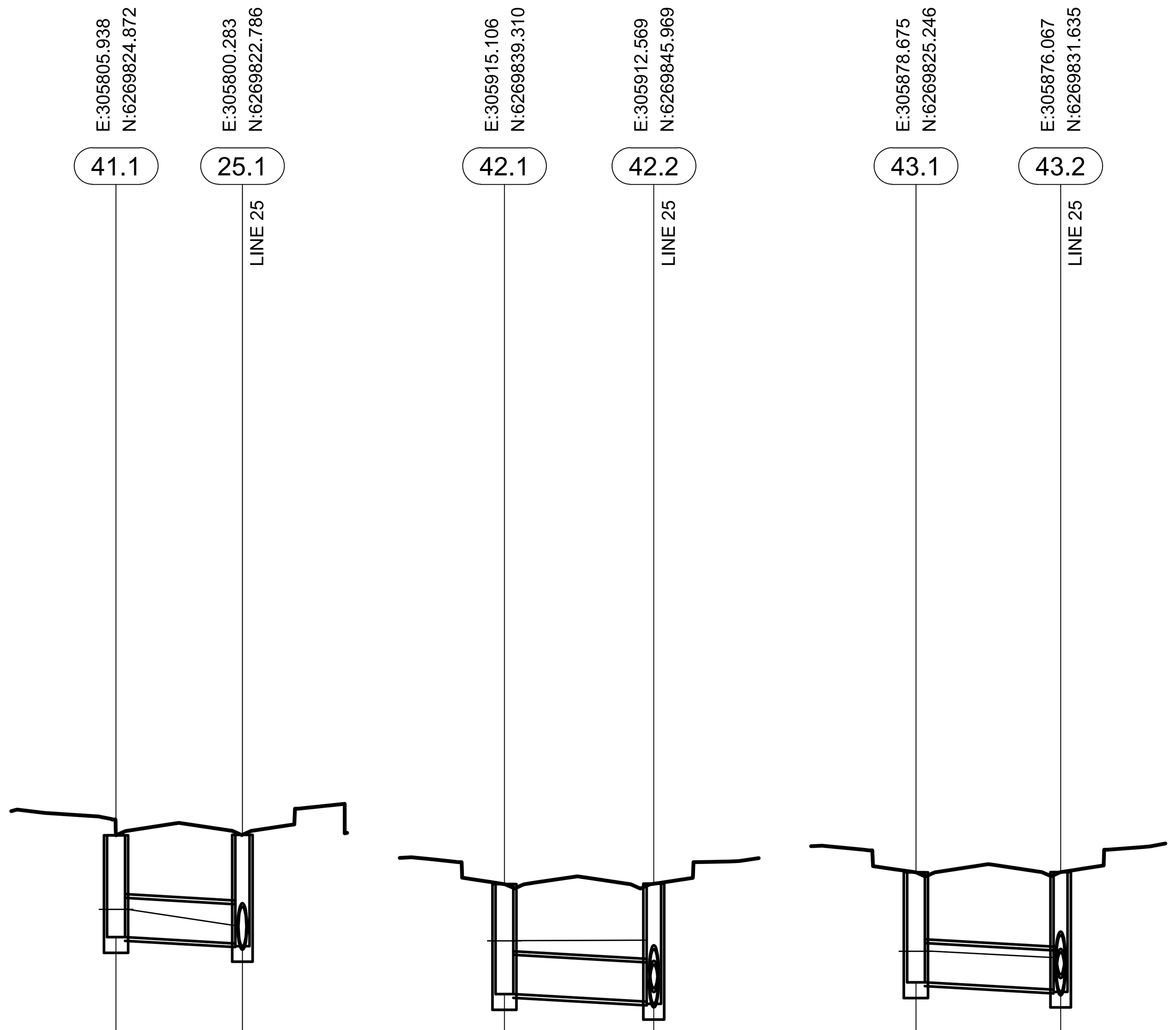
KEY PLAN

PROJECT NUMBER
60618532

SHEET TITLE
DRAINAGE LONGITUDINAL SECTION SHEET 09

SHEET NUMBER
60618532-SHT-00-0000-CI-0409



LINE 41

	41.1	25.1
PIPE FLOW (L/s) (20yr ARI)	Q=0	
PIPE VELOCITY (m/s)	0.00	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	
PIPE GRADE	1.01% 1 in 99	
DATUM (m)	48.00	
FINISHED (& EXISTING) SURFACE LEVEL	57.64	57.64
HYDRAULIC GRADE LINE	56.93 56.94	56.78 56.66
INVERT LEVEL	56.67	56.60 56.58
DEPTH TO INVERT	0.97	1.04 1.06
PIPE CHAINAGE	0.00	6.03

LINE 42

	42.1	42.2
PIPE FLOW (L/s) (20yr ARI)	Q=4	
PIPE VELOCITY (m/s)	0.07	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	
PIPE GRADE	1.01% 1 in 99	
DATUM (m)	45.00	
FINISHED (& EXISTING) SURFACE LEVEL	54.17	54.18
HYDRAULIC GRADE LINE	53.63	53.64 53.62
INVERT LEVEL	53.12	53.05 53.03
DEPTH TO INVERT	1.05	1.13 1.15
PIPE CHAINAGE	0.00	7.13

LINE 43

	43.1	43.2
PIPE FLOW (L/s) (20yr ARI)	Q=0	
PIPE VELOCITY (m/s)	0.00	
PIPE SIZE (mm) & CLASS	Ø375 RCP Class 4	
PIPE GRADE	1.01% 1 in 99	
DATUM (m)	46.00	
FINISHED (& EXISTING) SURFACE LEVEL	55.28	55.29
HYDRAULIC GRADE LINE	54.53	54.47 54.45
INVERT LEVEL	54.23	54.16 54.14
DEPTH TO INVERT	1.05	1.12 1.14
PIPE CHAINAGE	0.00	6.90

NSW GOVERNMENT
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW Sheet No: 281 of 288

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PROJECT
TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT
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0 1.25 2.5 V=1:50

PRELIMINARY

PROJECT MANAGEMENT INITIALS

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DESIGNER	CHECKED	APPROVED

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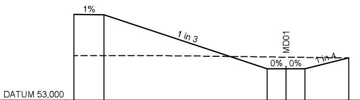
KEY PLAN

PROJECT NUMBER
60618532

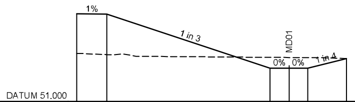
SHEET TITLE
DRAINAGE
LONGITUDINAL SECTION
SHEET 10

SHEET NUMBER
60618532-SHT-00-0000-CI-0410



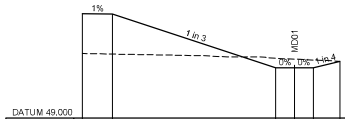
DESIGN LEVELS	56.402	56.390	54.245	54.245	54.245	54.680
EXISTING LEVELS	54.768	54.767	54.719	54.710	54.701	54.680
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.488

CH 45.000



DESIGN LEVELS	54.481	54.469	52.324	52.324	52.324	52.708
EXISTING LEVELS	52.907	52.862	52.754	52.748	52.741	52.708
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.285

CH 105.000

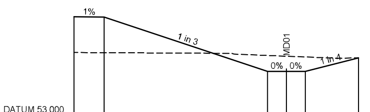


DESIGN LEVELS	53.157	53.145	51.000	51.000	51.000	51.262
EXISTING LEVELS	51.568	51.546	51.379	51.345	51.310	51.262
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.800

CH 165.000

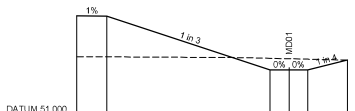
DESIGN LEVELS	49.974	49.853	49.853	49.853	49.945
EXISTING LEVELS	49.974	49.967	49.961	49.956	49.945
DESIGN OFFSETS	-0.514	-0.150	0.000	0.150	0.427

CH 225.000



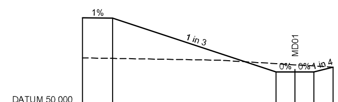
DESIGN LEVELS	56.906	56.894	54.749	54.749	54.749	55.276
EXISTING LEVELS	55.491	55.484	55.374	55.345	55.315	55.276
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.857

CH 30.000



DESIGN LEVELS	54.945	54.933	52.788	52.788	52.788	53.182
EXISTING LEVELS	53.321	53.313	53.255	53.237	53.220	53.182
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.328

CH 90.000

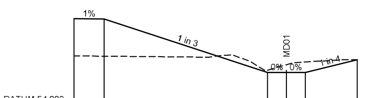


DESIGN LEVELS	53.495	53.483	51.338	51.338	51.338	51.528
EXISTING LEVELS	51.899	51.878	51.667	51.621	51.575	51.528
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.509

CH 150.000

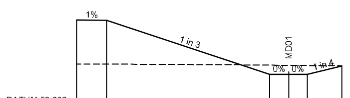
DESIGN LEVELS	50.275	50.129	50.129	50.129	50.257
EXISTING LEVELS	50.275	50.268	50.266	50.263	50.257
DESIGN OFFSETS	-0.590	-0.150	0.000	0.150	0.535

CH 210.000



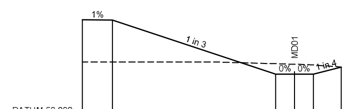
DESIGN LEVELS	57.453	57.441	55.296	55.296	55.296	55.810
EXISTING LEVELS	55.967	55.955	55.399	55.615	55.723	55.810
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.806

CH 15.000



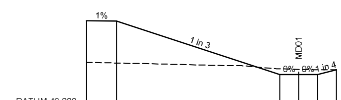
DESIGN LEVELS	55.409	55.397	53.252	53.252	53.252	53.594
EXISTING LEVELS	53.663	53.663	53.623	53.615	53.608	53.594
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.121

CH 75.000



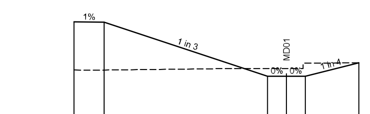
DESIGN LEVELS	53.833	53.821	51.676	51.676	51.676	51.953
EXISTING LEVELS	52.147	52.149	52.084	52.063	52.037	51.953
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.857

CH 135.000



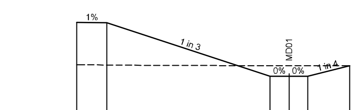
DESIGN LEVELS	52.459	52.447	50.302	50.302	50.302	50.491
EXISTING LEVELS	50.790	50.767	50.532	50.511	50.494	50.491
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.508

CH 195.000



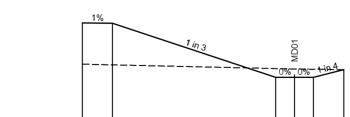
DESIGN LEVELS	58.056	58.044	55.899	55.899	55.899	56.429
EXISTING LEVELS	56.148	56.146	56.200	56.199	56.416	56.429
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.869

CH 0.000



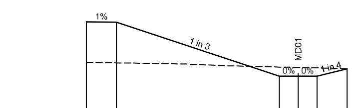
DESIGN LEVELS	55.898	55.886	53.741	53.741	53.741	54.159
EXISTING LEVELS	54.204	54.194	54.166	54.165	54.163	54.159
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	2.421

CH 60.000



DESIGN LEVELS	54.134	54.122	51.977	51.977	51.977	52.279
EXISTING LEVELS	52.496	52.469	52.323	52.306	52.290	52.279
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.958

CH 120.000



DESIGN LEVELS	52.812	52.800	50.655	50.655	50.655	50.954
EXISTING LEVELS	51.206	51.183	51.019	51.001	50.983	50.954
DESIGN OFFSETS	-8.450	-7.250	-0.750	0.000	0.750	1.946

CH 180.000

CROSS SECTIONS -

A1 HORIZONTAL SCALE 1:100
A1 VERTICAL SCALE 1:100

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

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DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

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A.B.N 20 093 846 925
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SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	07.05.2020	ISSUE FOR SUBMISSION
2	16.04.2020	ISSUE FOR SUBMISSION
1	03.04.2020	ISSUE FOR REVIEW.

KEY PLAN

PROJECT NUMBER

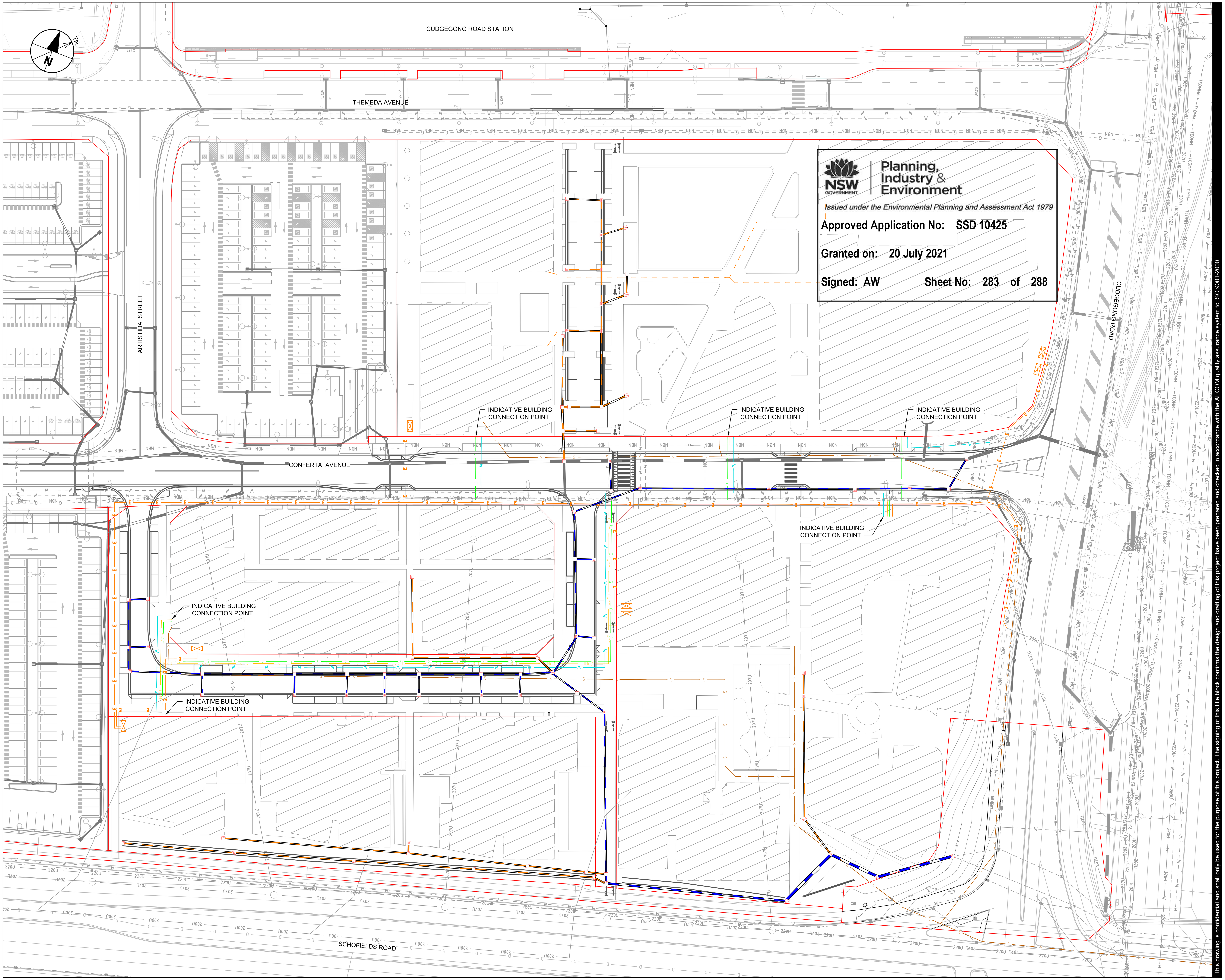
60618532

SHEET TITLE

DRAINAGE SWALE CROSS SECTION

SHEET NUMBER

60618532-SHT-00-0000-CI-0421



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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

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CONSULTANT

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LEGEND

- PROPOSED BUILDING OUTLINE
- DRAINAGE LINE (Ø525)
- DRAINAGE PITS
- CAP BUILDING CONNECTION POINT AT BOUNDARY
- EXISTING DRAINAGE LINE
- COMM — COMMUNICATIONS
- G — GAS (JEMENA)
- E — ELECTRICITY (AUSGRID)
- FW — INDICATIVE FIRE WATER LINE
- S — SEWER (SYDNEY WATER)
- W — WATER (SYDNEY WATER)
- SL — STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- COMM — EXISTING COMMUNICATIONS
- G — EXISTING GAS
- E — EXISTING ELECTRICITY
- S — EXISTING SEWER
- W — EXISTING WATER
- HV — EXISTING HIGH VOLTAGE

SCALE BAR

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1:500

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

4	25.11.2020	ISSUE FOR SUBMISSION
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1	03.04.2020	ISSUE FOR REVIEW.
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

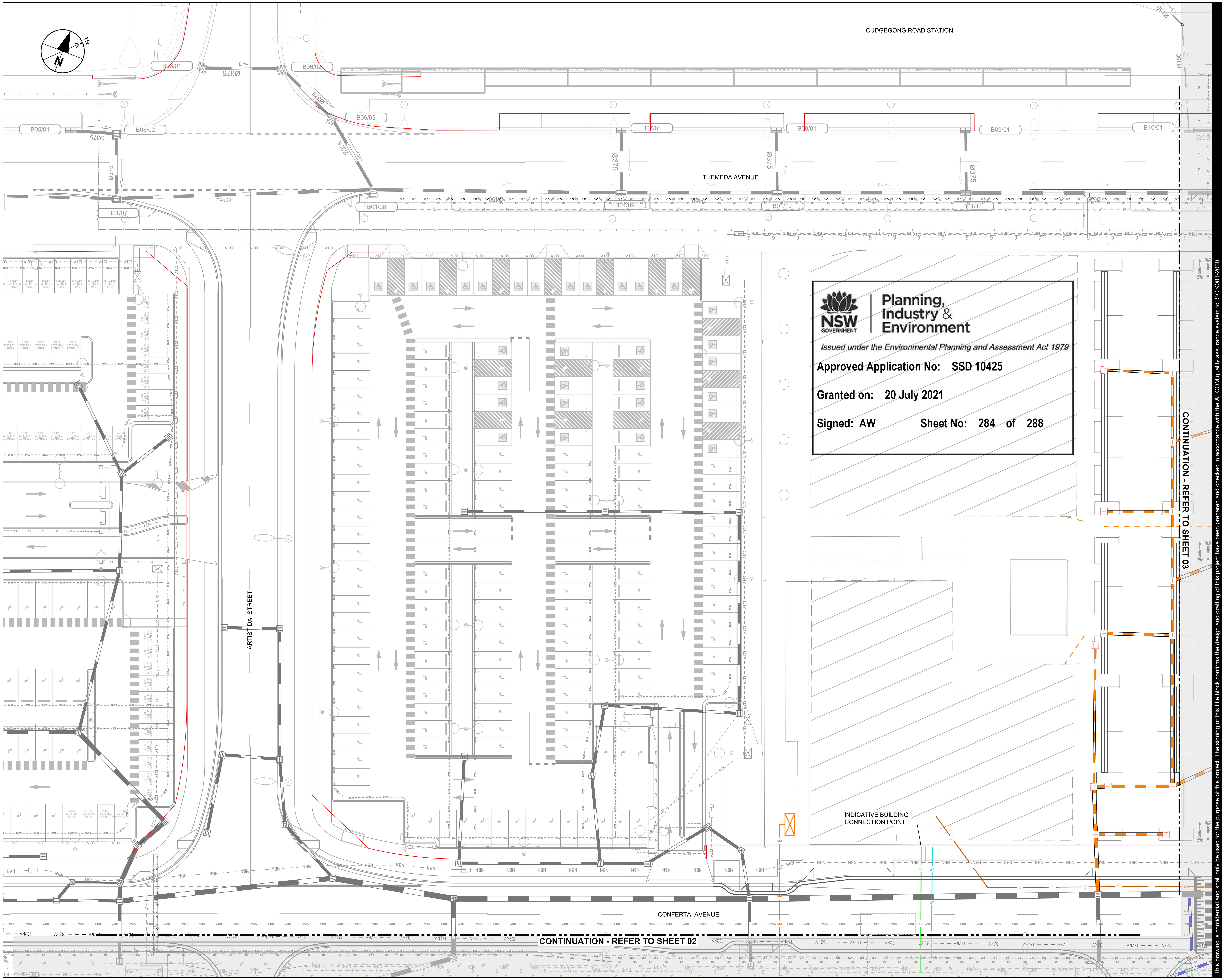
60618532

SHEET TITLE

COMBINED SERVICES PLAN
SITE WIDE

SHEET NUMBER

60618532-SHT-00-0000-CI-0500



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Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW Sheet No: 284 of 288

ISO A1 594mm x 841mm

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

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LEGEND

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- DRAINAGE LINE (Ø525)
- DRAINAGE PITS
- CAP BUILDING CONNECTION POINT AT BOUNDARY
- EXISTING DRAINAGE LINE
- COMMUNICATIONS
- GAS (JEMENA)
- ELECTRICITY (AUSGRID)
- INDICATIVE FIRE WATER LINE
- SEWER (SYDNEY WATER)
- WATER (SYDNEY WATER)
- STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- EXISTING COMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY
- EXISTING SEWER
- EXISTING WATER
- EXISTING HIGH VOLTAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
5	25.11.2020	ISSUE FOR SUBMISSION
4	07.05.2020	ISSUE FOR SUBMISSION
3	16.04.2020	ISSUE FOR SUBMISSION
2	03.04.2020	ISSUE FOR REVIEW.
1	24.03.2020	ISSUE FOR REVIEW

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

COMBINED SERVICES PLAN SHEET 01

SHEET NUMBER

60618532-SHT-00-0000-CI-0501

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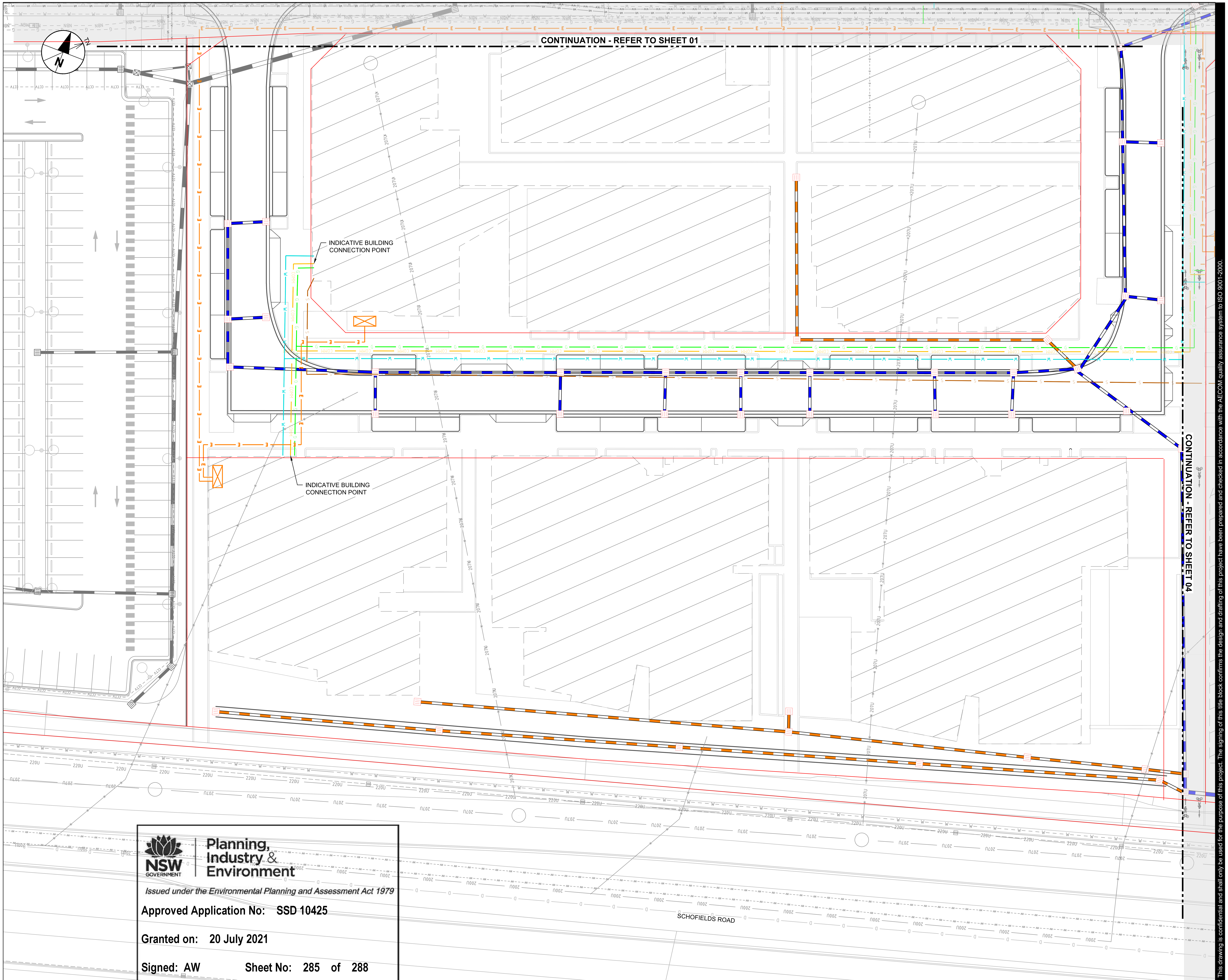

NSW GOVERNMENT | Planning, Industry & Environment

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Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW Sheet No: 285 of 288

AECOM

PROJECT

TALLAWONG STATION
PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS
(TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- DRAINAGE LINE (Ø525)
- DRAINAGE PITS
- CAP BUILDING CONNECTION POINT AT BOUNDARY
- EXISTING DRAINAGE LINE
- COMMUNICATIONS
- GAS (JEMENA)
- ELECTRICITY (AUSGRID)
- INDICATIVE FIRE WATER LINE
- SEWER (SYDNEY WATER)
- WATER (SYDNEY WATER)
- STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- EXISTING COMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY
- EXISTING SEWER
- EXISTING WATER
- EXISTING HIGH VOLTAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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2	03.04.2020	ISSUE FOR REVIEW.
1	24.03.2020	ISSUE FOR REVIEW

KEY PLAN

PROJECT NUMBER

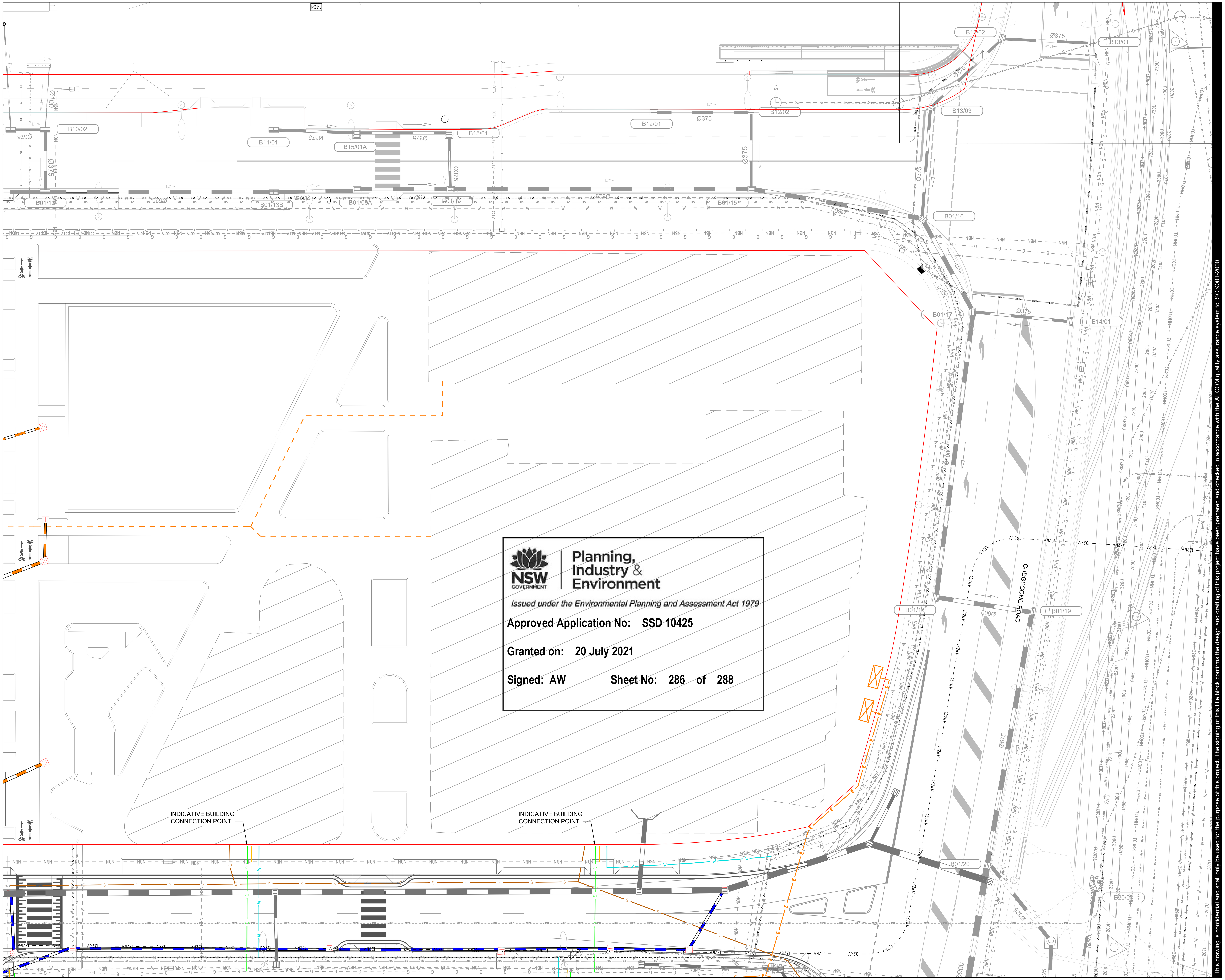
60618532

SHEET TITLE

COMBINED SERVICES
PLAN
SHEET 02

SHEET NUMBER

60618532-SHT-00-0000-CI-0502



![NSW Government] **Planning, Industry & Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

Signed: AW Sheet No: 286 of 288

AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- DRAINAGE LINE (Ø525)
- DRAINAGE PITS
- CAP BUILDING CONNECTION POINT AT BOUNDARY
- EXISTING DRAINAGE LINE
- COMMUNICATIONS
- GAS (JEMENA)
- ELECTRICITY (AUSGRID)
- INDICATIVE FIRE WATER LINE
- SEWER (SYDNEY WATER)
- WATER (SYDNEY WATER)
- STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- EXISTING COMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY
- EXISTING SEWER
- EXISTING WATER
- EXISTING HIGH VOLTAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

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1	24.03.2020	ISSUE FOR REVIEW

KEY PLAN

PROJECT NUMBER

60618532

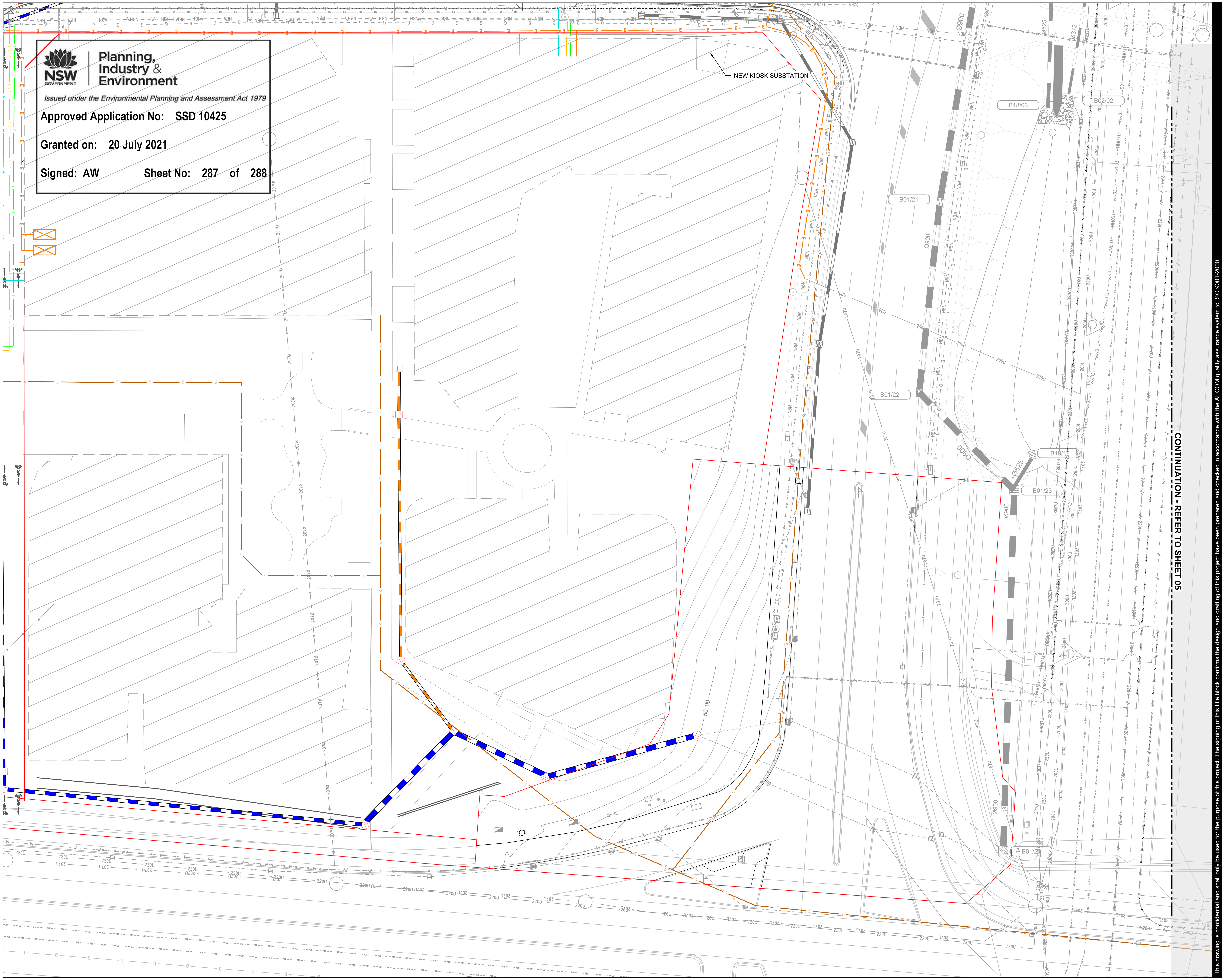
SHEET TITLE

COMBINED SERVICES PLAN
SHEET 03

SHEET NUMBER

60618532-SHT-00-0000-CI-0503

ISO A1 594mm x 841mm



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Approved Application No: SSD 10425

Granted on: 20 July 2021

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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

CLIENT

DEICORP

DEICORP PROJECTS (TALLAWONG STATION) PTY LTD

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- Ø525 DRAINAGE LINE
- DRAINAGE PITS
- CAP BUILDING CONNECTION POINT AT BOUNDARY
- EXISTING DRAINAGE LINE
- COMMUNICATIONS
- G GAS (JEMENA)
- ELECTRICITY (AUSGRID)
- FW INDICATIVE FIRE WATER LINE
- SEWER (SYDNEY WATER)
- WATER (SYDNEY WATER)
- SL STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- COMM EXISTING COMMUNICATIONS
- G EXISTING GAS
- E EXISTING ELECTRICITY
- S EXISTING SEWER
- W EXISTING WATER
- HV EXISTING HIGH VOLTAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

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1	24.03.2020	ISSUE FOR REVIEW

KEY PLAN

PROJECT NUMBER

60618532

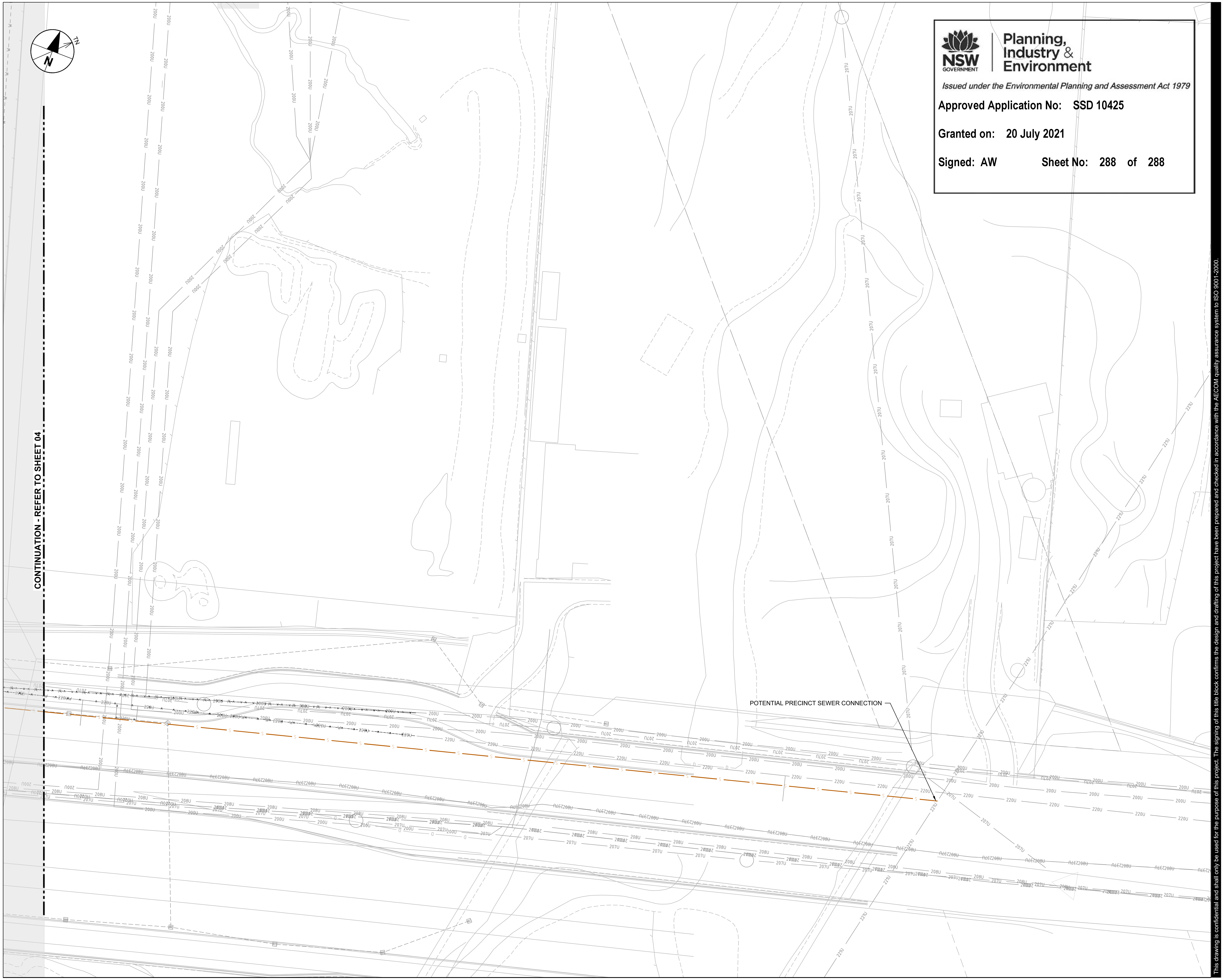
SHEET TITLE

COMBINED SERVICES PLAN SHEET 04

SHEET NUMBER

60618532-SHT-00-0000-CI-0504

ISO A1 594mm x 841mm



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Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10425

Granted on: 20 July 2021

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AECOM

PROJECT

TALLAWONG STATION PRECINCT SOUTH
CIVIL PACKAGE

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- SEWER (SYDNEY WATER)
- WATER (SYDNEY WATER)
- STREET LIGHTING (CITY OF SYDNEY)
- NEW SUBSTATION
- EXISTING COMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY
- EXISTING SEWER
- EXISTING WATER
- EXISTING HIGH VOLTAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

-	N.MITCHELL	G.ROEFFEN
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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2	03.04.2020	ISSUE FOR REVIEW.
1	24.03.2020	ISSUE FOR REVIEW

KEY PLAN

PROJECT NUMBER

60618532

SHEET TITLE

COMBINED SERVICES PLAN
SHEET 05

SHEET NUMBER

60618532-SHT-00-0000-CI-0505

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