PWC DRG No. B23-XXXX

PWC ACCREDITED DESIGNER:
Name: PAUL GRAHAM
PWC accreditation code:
DESCERTBL9

Signed: _ _ _ _ _ _ _ _ _ _ _ _

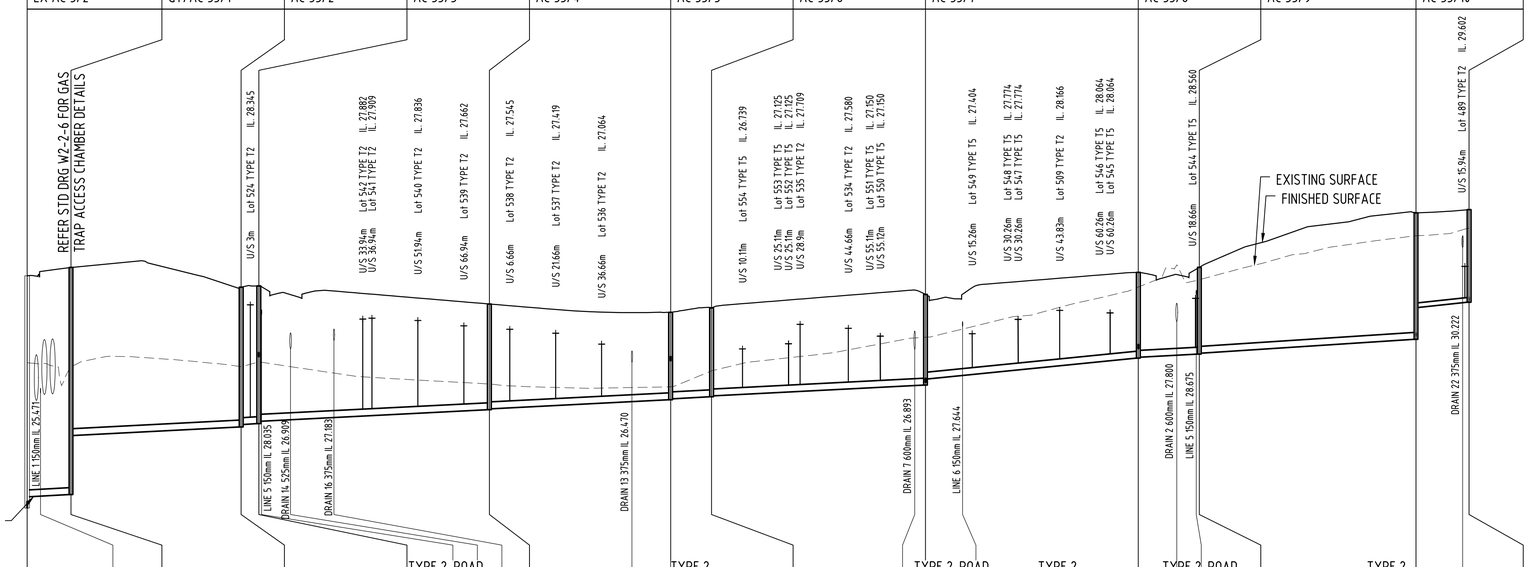
Date:

PERMISSION TO USE FOR CONSTRUCTION PURPOSES ONLY
SIGNED ..... DATE.....
ON BEHALF OF WATER SERVICES FOR THE INCORPORATION INTO POWER AND WATER CORPORATION'S NETWORK.
This permission to use this approved design is given on the Basis that the developer and/or consultant is not absolved From full responsibility for the correctness and accuracy or Of the design and/or documents so associated.
This drawing is valid for 2 years from the date of signing

NOTE
ALL ACCESS CHAMBERS ARE TO BE CAST INSITU. CIRCULAR I.D.1200 (AC = ACCESS CHAMBER)
(MS = MAINTENANCE SHAFT)
(TMS = TERMINAL MAINTENANCE SHAFT)
(CRD = CIRCULAR MANHOLE RECTANGULAR COVER, HEAVY DUTY) (HVY = CLASS D TO PWC STD DRG W2-2-07)
REFER SEWER RETICULATION PLAN FOR TRENCH TYPE DETAILS.

NOTE
EXISTING SURFACE LEVEL DENOTES THE STRIP SURFACE LEVEL U.N.O. 200mm STRIPPING HAS BEEN ASUMED

JUNCTION LINE:		(-43°)	(90°)	(-90°) L39 (180°)		(45°) L38 (18°)	(63°)	L37 (90°)	(-4°) L36 (36°)	(4°)	(72°) L35 (108°)	(-90°) L34 (0°)
MANHOLE & COVER TYPE		CRD	CRD	CRD	CRD	CRD	CRD	CRD	CRD	CRD	CRD	CRD
MANHOLE DROP TYPE		4	1	1	1	1	1	1	1	1	4	1
MANHOLE NO.	EX AC 5/2	GT/AC 33/1	AC 33/2	AC 33/3	AC 33/4	AC 33/5	AC 33/6	AC 33/7	AC 33/8	AC 33/9	AC 33/10	AC 33/11
TRENCH TYPE			TYPE 2-ROAD			TYPE 2		TYPE 2-ROAD	TYPE 2	TYPE 2-ROAD	TYPE 2	
PIPE DIA. (mm). TYPE & CLASS		DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN225-PVC-SN8	DN150-PVC-SN8	
GRADE (%) - LENGTH (m)		-0.50% - 14.31	-0.50% - 55.56	-0.50% - 5.77	-0.50% - 75.28	-0.50% - 59.19	-0.50% - 13.37	-0.50% - 69.86	-0.98% - 69.48	-0.50% - 19.92	-0.64% - 70.76	-1.00% - 17.32
DATUM R.L.	16.000											
RL TOP OF MANHOLE	29.294	29.294	29.566	28.921	28.963	28.373	28.101	28.247	28.687	29.407	29.572	31.348	31.453
DEPTH TO INVERT	7.688	7.213	7.413	5.486	4.563	4.483	4.496	4.416	4.548	4.596	3.451	3.421	2.852	2.822	2.901	2.871	2.962	2.762	2.801	2.771	2.835	2.805	4.128	3.089	3.021	2.991
INVERT LEVEL	21.606	22.081	22.101	22.153	24.080	24.357	24.437	24.466	24.546	24.548	24.596	24.668	24.923	24.953	25.187	25.249	25.279	25.346	25.376	25.710	25.725	25.925	26.040	26.607	26.637	26.700	26.734	26.736	26.766	27.220	28.259	28.416	28.432	28.462
FINISH SURFACE LEVEL	29.294		29.566	28.921	28.963								28.373			28.101		28.247			28.687			29.407				29.572		31.348			31.453	
EXISTING SURFACE LEVEL	26.453		26.359	26.325	26.483								25.762			25.669		26.190			27.286			28.926				29.167		30.602			30.849	
CHAINAGE (LENGTH)	0.00	4.35	14.31	69.87	75.64	76.54	86.01	100.18	150.92	197.49	210.11	223.48	289.81	293.34	305.43	362.82	375.36	381.74	382.74	453.50	468.75	470.82												
ACCESS CHAMBER LOCATION		E 104,177.774 N 6234,485.450	E 104,30.696 N 6234,491.592	E 104,83.578 N 6234,74.541	E 104,85.349 N 6234,80.032	E 10556.992 N 6234,56.932	E 10613.327 N 6234,38.767	E 10625.228 N 6234,44.865	E 10624.897 N 623514.721	E 10624.568 N 623584.201	E 10625.794 N 623604.076	E 10625.640 N 623674.837	E 10609.153 N 623680.151										



LINE 33

H: 0 20 40m
V: 0 2 4m
SCALE H:1:1000 V:1:100 @A1

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REV	DATE	REVISION DETAILS	APPROVED
A	ZZ	ISSUED FOR INFORMATION	P. GRAHAM

SCALE	SIZE
AS SHOWN	A1

DRAWN: C. HATZI
DESIGNED: C. HATZI
CHECKED: M. CAVANEY

PRELIMINARY
NOT FOR CONSTRUCTION

APPROVED
DATE
P. GRAHAM

PROJECT: NORTHCREST - STAGE 4E BERRIMAH

TITLE: SEWERAGE RETICULATION LONGSECTIONS
SHEET 2 OF 3

DRAWING No.: PROJECT No. DN04E – WBS 5000 – TYPE DRG – DISC – NUMBER 4003 – REV A

PWC DRG No. B23-XXXX

PWC ACCREDITED DESIGNER:
Name: PAUL GRAHAM
PWC accreditation code:
DESCERTBL9

Signed: _ _ _ _ _ _ _ _ _ _ _ _

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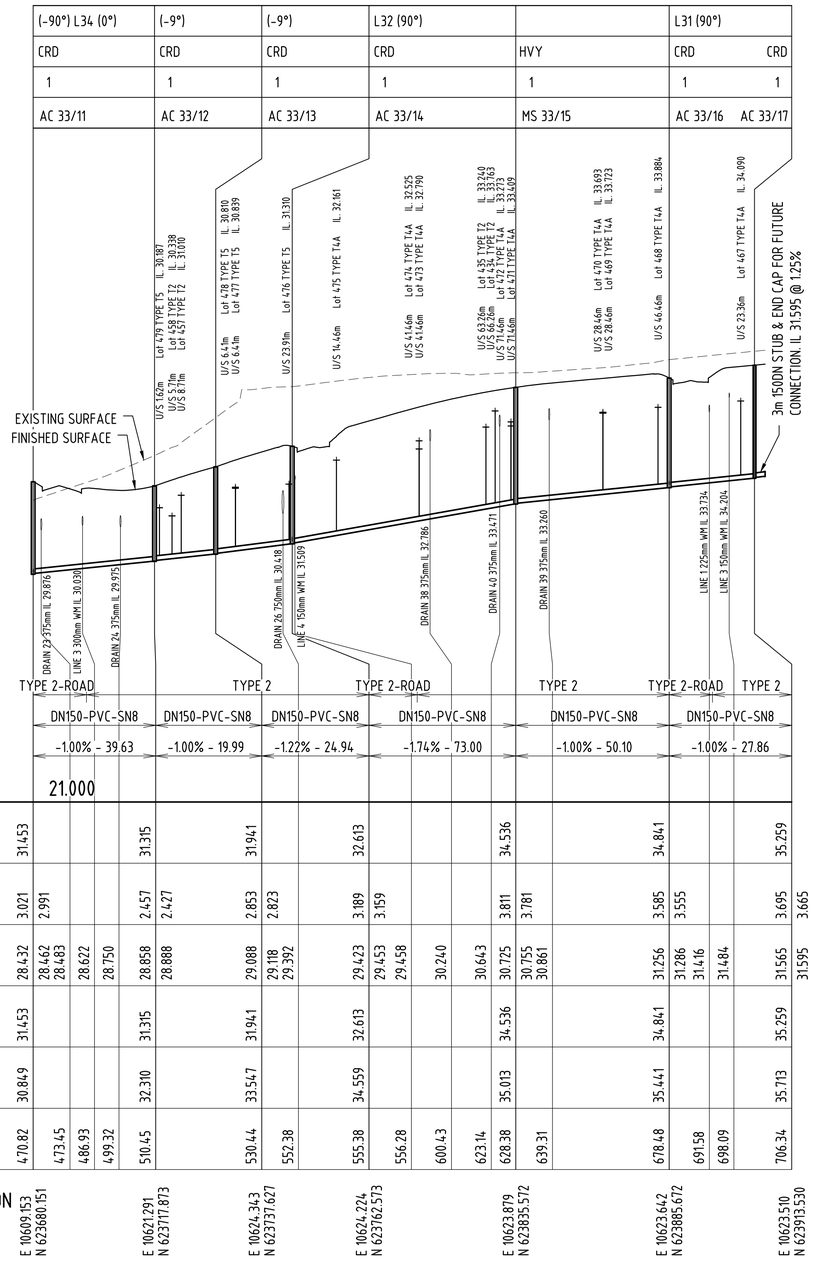
REFER SEWER RETICULATION PLAN FOR TRENCH TYPE DETAILS.

NOTE
EXISTING SURFACE LEVEL DENOTES THE STRIP SURFACE LEVEL U.N.O. 200mm STRIPPING HAS ASUMED



JUNCTION LINE:	(-90°) L34 (0°)	(-9°)	(-9°)	L32 (90°)		L31 (90°)	
MANHOLE & COVER TYPE	CRD	CRD	CRD	CRD	HVY	CRD	CRD
MANHOLE DROP TYPE	1	1	1	1	1	1	1
MANHOLE NO.	AC 33/11	AC 33/12	AC 33/13	AC 33/14	MS 33/15	AC 33/16	AC 33/17
TRENCH TYPE	TYPE 2-ROAD	TYPE 2	TYPE 2-ROAD	TYPE 2	TYPE 2-ROAD	TYPE 2	
PIPE DIA. (mm). TYPE & CLASS	DN150-PVC-SN8	DN150-PVC-SN8	DN150-PVC-SN8	DN150-PVC-SN8	DN150-PVC-SN8	DN150-PVC-SN8	
GRADE (%) - LENGTH (m)	-1.00% - 39.63	-1.00% - 19.99	-1.22% - 24.94	-1.74% - 73.00	-1.00% - 50.10	-1.00% - 27.86	
DATUM R.L.	21.000						
RL TOP OF MANHOLE	31.453	31.315	31.941	32.613	34.536	34.841	35.259
DEPTH TO INVERT	3.021	2.991	2.457	2.427	2.853	2.823	3.189	3.159	3.811	3.781	3.585	3.555	3.695	3.665
INVERT LEVEL	28.432	28.462	28.483	28.622	28.750	28.858	28.888	29.088	29.118	29.392	29.423	29.453	29.458	30.240	30.643	30.725	30.755	30.861	31.256	31.286	31.416	31.484	31.565	31.595
FINISH SURFACE LEVEL	31.453	31.315	31.941	32.613	34.536	34.841	35.259
EXISTING SURFACE LEVEL	30.849	32.310	33.547	34.559	35.013	35.441	35.713
CHAINAGE (LENGTH)	470.82	473.45	486.93	499.32	510.45	530.44	552.38	555.38	556.28	600.43	623.14	628.38	639.31	678.48	691.58	698.09	706.34
ACCESS CHAMBER LOCATION	E 10609.153 N 623680.151				E 10621.291 N 623717.873	E 10624.343 N 623737.627		E 10624.224 N 623762.573				E 10623.879 N 623835.572		E 10623.642 N 623885.672			E 10623.510 N 623913.530

LINE 33

H: 0 20 40m
V: 0 2 4m
SCALE H:1:1000 V:1:100 @A1

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REV	DATE	REVISION DETAILS	APPROVED
A	ZZ	ISSUED FOR INFORMATION	P. GRAHAM

SCALE	SIZE
AS SHOWN	A1

DRAWN: C. HATZI
DESIGNED: C. HATZI
CHECKED: M. CAVANEY

PRELIMINARY
NOT FOR CONSTRUCTION

APPROVED
DATE
P. GRAHAM

PROJECT: NORTHCREST - STAGE 4E BERRIMAH

TITLE: SEWERAGE RETICULATION LONGSECTIONS
SHEET 3 OF 3

DRAWING No. PROJECT No. DN04E – WBS 5000 – TYPE DRG – DISC – NUMBER 4004 – REV A

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. THE LOCATION AND DEPTH OF ALL SERVICES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.

PWC DRG No. B23-XXXX

PERMISSION TO USE FOR CONSTRUCTION PURPOSES

SIGNED..... DATE.....

ON BEHALF OF WATER SERVICES FOR INCORPORATION INTO THE POWER AND WATER CORPORATION'S NETWORK.

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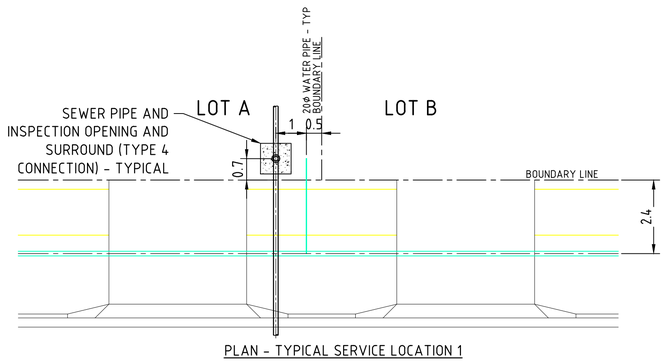
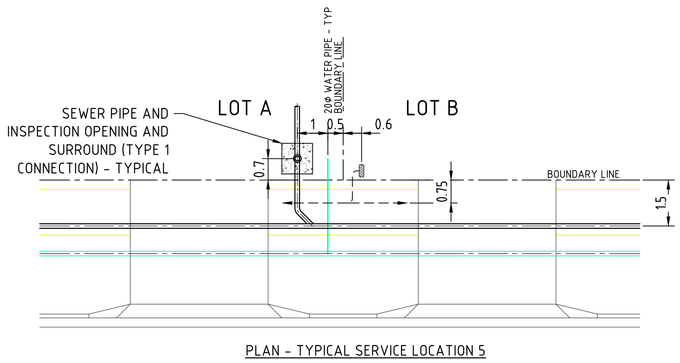
Name: PAUL GRAHAM
PWC accreditation code:
DESCERTBL9

Signed: _ _ _ _ _ _ _ _ _ _ _ _ _

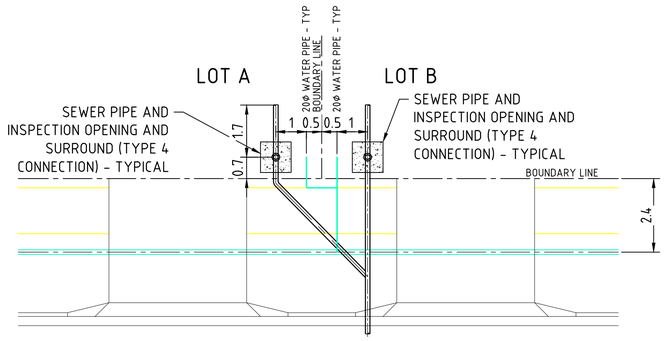
Date:



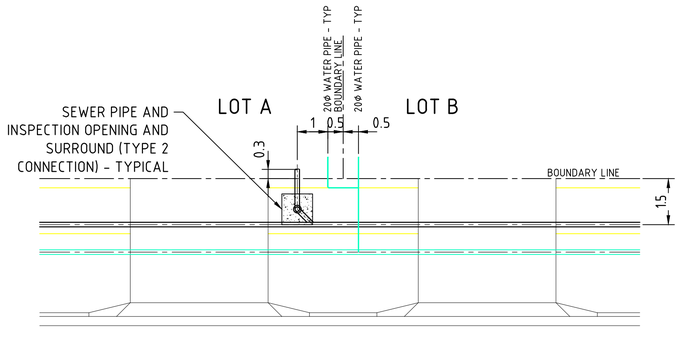
PLAN - TYPICAL SERVICE LOCATION 1



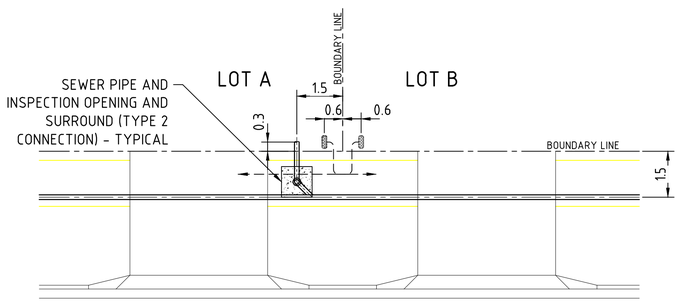
PLAN - TYPICAL SERVICE LOCATION 5



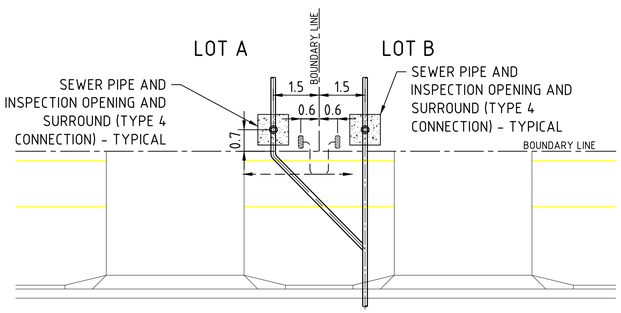
PLAN - TYPICAL SERVICE LOCATION 2



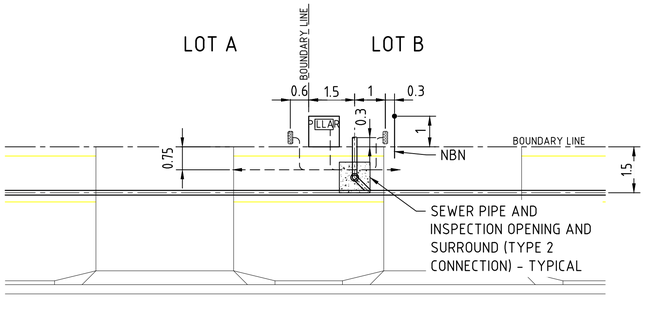
PLAN - TYPICAL SERVICE LOCATION 6



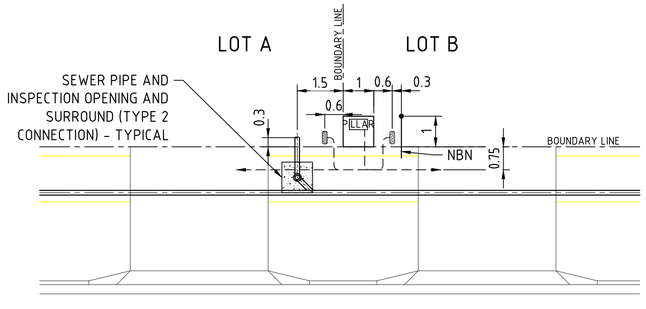
PLAN - TYPICAL SERVICE LOCATION 3



PLAN - TYPICAL SERVICE LOCATION 7



PLAN - TYPICAL SERVICE LOCATION 4



PLAN - TYPICAL SERVICE LOCATION 8

1 0 2 4m
SCALE 1:100

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REV	DATE	REVISION DETAILS	APPROVED
A	ZZ	ISSUED FOR INFORMATION	P. GRAHAM

SCALE	SIZE
AS SHOWN	A1

DRAWN: C. HATZI
DESIGNED: C. HATZI
CHECKED: P. GRAHAM

PRELIMINARY
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APPROVED
DATE

PROJECT	NORTHCREST - STAGE 4E BERRIMAH
TITLE	TYPICAL SERVICE LOCATIONS

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
	DN04E	8000	DRG		7001	A

Appendix D
Stage 7F Detailed Design Drawings

NORTHCREST - STAGE 7F

BERRIMAH, NT 0828

CIVIL WORKS

GENERAL NOTES

G1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS & BERRIMAH FARM SUBDIVISION GUIDELINES, PWC STANDARD DRAWINGS, ASSOCIATED STANDARD DRAWINGS & SPECIFICATIONS U.N.O. SHOULD CONTRACTOR REQUIRE A COPY OF THESE DOCUMENTS PLEASE CONTACT ADG.

G2. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. CONTRACTOR TO LOCATE AND PROTECT SERVICES AS REQUIRED DURING PROPOSED WORKS. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT.

G3. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO COUNCIL'S OR AUTHORITY'S INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF LOCAL COUNCIL OR RELEVANT AUTHORITY.

G4. ON COMPLETION OF SERVICES INSTALLATION, ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL LEVEL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.

G5. CONTRACTOR TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH ALL WORKPLACE HEALTH AND SAFETY REQUIREMENTS.

G6. WHERE ANY EXCAVATION OR CONSTRUCTION WORKS ARE TO BE IN CLOSE PROXIMITY TO NEIGHBOURING LOT BOUNDARIES OR INFRASTRUCTURE, CONTRACTOR TO ALLOW IN SCOPE OF WORKS TO PROVIDE ALL MEASURES NECESSARY TO ENSURE THE INTEGRITY OF EXISTING BOUNDARIES AND INFRASTRUCTURE. THIS MAY INCLUDE THE USE OF LOW VIBRATION EQUIPMENT, TRENCH SHORING, ETC AS REQUIRED.

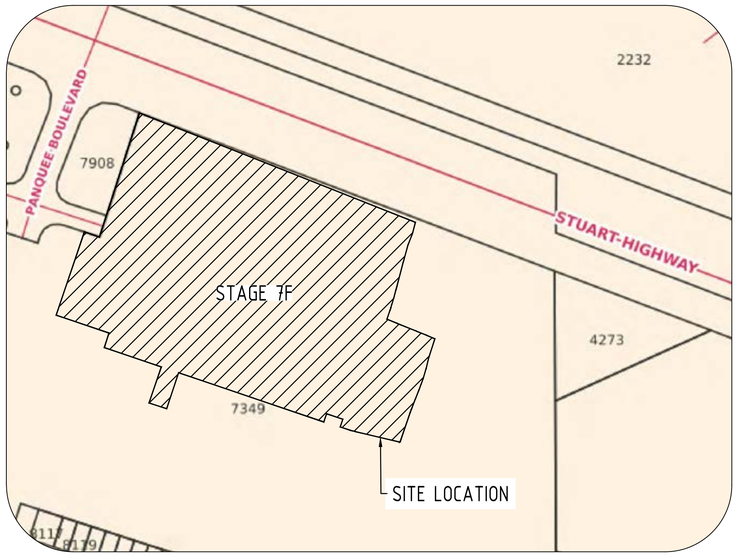
G7. PRIOR TO THE CONTRACTOR COMMENCING ANY WORKS DETAILED ON THESE DRAWINGS, THE CONTRACTOR IS TO NOTIFY ADG ENGINEERS (AUST) PTY LTD AND RECEIVE WRITTEN CONFIRMATION THAT WORKS CAN COMMENCE.

G8. CONTRACTOR TO PROVIDE AS CONSTRUCTED DRAWINGS FOR ALL CONSTRUCTED WORKS IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.

G9. CONTRACTOR TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH APPROVALS BY COUNCIL/LOCAL AUTHORITY/PWC.

LOCALITY PLAN

NOT TO SCALE



PROPERTY DESCRIPTION

LOT: 7349

NTG STANDARD DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
CS3114	SIDE ENTRY PIT - LOAD CLASS D CONCRETE DETAILS - SHEET 1
CS3400	LINEMARKNG
CS3700	SHELTER - TYPE 14A - 3 BAY - GENERAL NOTES
CS3701	SHELTER - TYPE 14A - 3 BAY - TYPICAL PLAN, ELEVATION AND SECTION
CS3702	SHELTER - TYPE 14A - 3 BAY - TYPICAL SECTIONS DETAILS
CS3703	SHELTER - TYPE 14A - 3 BAY - SLAB LAYOUT PLAN AND DETAILS (OPTION 1)
CS3704	SHELTER - TYPE 14A - 3 BAY - SLAB LAYOUT PLAN AND DETAILS (OPTION 2)
CS3705	SHELTER - TYPE 14A - 3 BAY - ROOF FRAMING PLANS AND DETAILS

NT SUBDIVISION DEVELOPMENT GUIDELINE STANDARD DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
SS3001	STORMWATER PIPES - TYPICAL TRENCH DETAILS
SS1010	STREET NAME SIGNS TYPICAL DETAILS

BERRIMAH FARM SUBDIVISION GUIDELINES

DRAWING No.	DRAWING TITLE
USG005	STANDARD VEHICLE ACCESS TYPE
USG008	TYPICAL CROSS SECTIONS FOR CYCLE AND PEDESTRIAN PATH
USG123	STANDARD MANHOLES AND INLET PITS
USG127	TYPICAL SUBSOIL DRAINAGE DETAILS FOR URBAN AREAS
USG300	CONCRETE KERB AND CHANNELS PRAM CROSSING

POWER WATER CORPORATION

DRG. No.	DRAWING TITTLE	REV.
DN07F-4000-DRG-3000	STAGE 7F NORTHCREST BERRIMAH WATER DRAWING SCHEDULE & NOTES	C
DN07F-4000-DRG-3001	STAGE 7F NORTHCREST BERRIMAH WATER NOTES & DETAILS	C
DN07F-4000-DRG-3002	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 1 OF 4	C
DN07F-4000-DRG-3003	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 2 OF 4	C
DN07F-4000-DRG-3004	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 3 OF 4	B
DN07F-4000-DRG-3005	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 4 OF 4	C
DN07F-4000-DRG-3006	STAGE 7F NORTHCREST BERRIMAH WATER LONGITUDINAL SECTION	C
DN07F-4000-DRG-3007	STAGE 7F NORTHCREST BERRIMAH WATER LONGITUDINAL SECTION SHEET 2 OF 2	A
DN07F-5000-DRG-4000	STAGE 7F NORTHCREST BERRIMAH SEWER DRAWING SCHEDULE & NOTES	C
DN07F-5000-DRG-4001	STAGE 7F NORTHCREST BERRIMAH SEWER NOTES & DETAILS	C
DN07F-5000-DRG-4002	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 1 OF 4	C
DN07F-5000-DRG-4003	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 2 OF 4	C
DN07F-5000-DRG-4004	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 3 OF 4	B
DN07F-5000-DRG-4005	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 4 OF 4	C
DN07F-5000-DRG-4006	STAGE 7F NORTHCREST BERRIMAH SEWER LONGITUDINAL SECTION	C
DN07F-5000-DRG-4007	STAGE 7F NORTHCREST BERRIMAH SEWER LONGITUDINAL SECTION SHEET 2 OF 2	B

DRAWING INDEX

DRG. No.	DRAWING TITTLE	REV.
DN07F-0900-DRG-1001	DRAWING SCHEDULE NOTES & LOCALITY PLAN	D
DN07F-0900-DRG-1002	EXISTING FEATURES LAYOUT PLAN	C
DN07F-2000-DRG-1003	ROADWORKS & DRAINAGE OVERALL LAYOUT PLAN	D
DN07F-2000-DRG-1004	ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 1 OF 4	D
DN07F-2000-DRG-1005	ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 2 OF 4	C
DN07F-2000-DRG-1006	ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 3 OF 4	D
DN07F-2000-DRG-1007	ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 4 OF 4	C
DN07F-2000-DRG-1008	ROADWORKS TYPICAL CROSS SECTIONS	C
DN07F-2000-DRG-1009	HEREFORD COURT LONGITUDINAL SECTION	B
DN07F-2000-DRG-1010	ROAD 1 & ROAD 2 LONGITUDINAL SECTIONS	B
DN07F-2000-DRG-1011	HEREFORD COURT CROSS SECTIONS SHEET 1 OF 3	B
DN07F-2000-DRG-1012	HEREFORD COURT CROSS SECTIONS SHEET 2 OF 3	B
DN07F-2000-DRG-1013	HEREFORD COURT CROSS SECTIONS SHEET 3 OF 3	B
DN07F-2000-DRG-1014	ROAD 1 CROSS SECTIONS SHEET 1 OF 2	B
DN07F-2000-DRG-1015	ROAD 1 CROSS SECTIONS SHEET 2 OF 2	B
DN07F-2000-DRG-1016	ROAD 2 CROSS SECTIONS	B
DN07F-2000-DRG-1017	ROAD INTERSECTION DETAILS	C
DN07F-2000-DRG-1018	ROAD INTERSECTION & CUL-DE-SAC DETAILS	C
DN07F-2000-DRG-1019	ROAD INTERSECTION & CUL-DE-SAC SETOUT TABLES	B
DN07F-2000-DRG-1020	HEREFORD COURT CURVE WIDENING DETAILS	C
DN07F-2000-DRG-1021	ROADWORKS & DRAINAGE NOTES & DETAILS	E
DN07F-2000-DRG-1022	EARTHWORKS OVERALL LAYOUT PLAN	E
DN07F-2000-DRG-1023	EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 1 OF 4	E
DN07F-2000-DRG-1024	EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 2 OF 4	E
DN07F-2000-DRG-1025	EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 3 OF 4	D
DN07F-2000-DRG-1026	EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 4 OF 4	E
DN07F-2000-DRG-1027	EARTHWORKS SITE SECTIONS	D
DN07F-2000-DRG-1028	SIGNAGE & LINEMARKING LAYOUT PLAN	C
DN07F-2000-DRG-1029	RETAINING WALL NOTES & DETAILS	E
DN07F-2000-DRG-1030	ROADWORKS BUS STOP & MEDIAN LAYOUT PLAN	B
DN07F-2000-DRG-1031	ROADWORKS BUS STOP LONGITUDINAL SECTION	A
DN07F-2500-DRG-1500	EROSION & SEDIMENT CONTROL CONSTRUCTION PHASE	D
DN07F-2500-DRG-1501	EROSION & SEDIMENT CONTROL FINAL STABILIZATION PHASE	D
DN07F-2500-DRG-1502	EROSION & SEDIMENT CONTROL NOTES & DETAILS	C
DN07F-3000-DRG-2000	STORMWATER LONGITUDINAL SECTIONS SHEET 1 OF 3	D
DN07F-3000-DRG-2001	STORMWATER LONGITUDINAL SECTIONS SHEET 2 OF 3	C
DN07F-3000-DRG-2002	STORMWATER LONGITUDINAL SECTIONS SHEET 3 OF 3	D
DN07F-3000-DRG-2003	STORMWATER CATCHMENT PLAN	C
DN07F-3000-DRG-2004	STORMWATER CALCULATIONS TABLE	C
DN07F-3000-DRG-2005	SUBSOIL DRAINAGE LAYOUT PLAN SHEET 1 OF 4	D
DN07F-3000-DRG-2006	SUBSOIL DRAINAGE LAYOUT PLAN SHEET 2 OF 4	C
DN07F-3000-DRG-2007	SUBSOIL DRAINAGE LAYOUT PLAN SHEET 3 OF 4	C
DN07F-3000-DRG-2008	SUBSOIL DRAINAGE LAYOUT PLAN SHEET 4 OF 4	C
DN07F-3000-DRG-2009	STORMWATER STRUCTURE PIT DETAILS SHEET 1 OF 2	A
DN07F-3000-DRG-2010	STORMWATER STRUCTURE PIT DETAILS SHEET 2 OF 2	B

ISSUED FOR
APPROVAL

ADG CIVIL SERVICES

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client	DCOH LAND PTY LTD
Project Name	NORTHCREST - STAGE 7F BERRIMAH, NT 0828
Discipline	CIVIL
Status	APPROVAL
Designed By	HD
Checked By	SW
Approved By	SW
Project No.	20172_014
Drawn By	AB
Scale at A1	NTS
Title	DRAWING SCHEDULE NOTES & LOCALITY PLAN
Drawing No.	DN07F-0900-DRG-1001
Revision	D

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LEGEND

- PROPOSED STAGE BOUNDARY
- LOT ADJACENT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- EXISTING SEWER (RECORDS)
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER
- EXISTING WATER
- EXISTING WATER HYDRANT
- EXISTING TOP OF BATTER
- EXISTING SWALE
- EXISTING TREE TO BE DEMOLISHED AND REMOVED FROM SITE
- EXISTING FOOTPATH
- EXISTING ROAD
- EXISTING STOCKPILE TO BE RELOCATED

STUART HIGHWAY

EXISTING CHAIN WIRE FENCE TO BE REMOVED & REINSTATED

EXISTING TEMPORARY POWER CONNECTION TO BE REMOVED & RELOCATED. LIVE WORKS TO BE PERFORMED BY PWC ACCREDITED CONTRACTOR AT DEVELOPERS COST

EXISTING SEWER MAIN (RECORDS) TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

EXISTING OVERHEAD ELECTRICAL TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

EXISTING 1.40m WIDE ELECTRICITY SUPPLY EASEMENT BOUNDARY TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

EXISTING 3 STRAND FENCE TO BE REMOVED & REINSTATED

EXISTING NORTHCREST SIGN TO REMOVED & RELOCATED

EXISTING OVERHEAD HV ELECTRICAL TRANSMISSION LINES TO BE MAINTAINED AND PROTECTED THROUGHOUT WORKS. CONTRACTOR TO ENSURE ALL NECESSARY APPROVALS TO WORK NEAR HV INFRASTRUCTURE ARE IN PLACE WITH PWC PRIOR TO COMMENCING WORKS. CONTRACTOR TO ALLOW FOR ALL PROTECTION MEASURES REQUIRED DURING CONSTRUCTION.

EXISTING TEMPORARY WATER PUMP STATION TO BE REMOVED & RELOCATED

EXISTING TEMPORARY WATER CART FILL POINT TO BE REMOVED & RELOCATED

EXISTING WATER FIRE HYDRANT TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

EXISTING TEMPORARY DEAD END TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS. CONTRACTOR TO EXPOSE PIPE END & CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS AND REPORT TO ADG.

7908

FUTURE STAGE 4F

EXISTING DN300 WATER

EXISTING TEMPORARY CULVERT CROSSING TO BE REMOVED FROM SITE

EXISTING DN750 STORMWATER. CONTRACTOR TO EXPOSE PIPE END & CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS AND REPORT TO ADG.

HEREFORD CRT

EXISTING DN225 SEWER TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS. CONTRACTOR TO EXPOSE PIPE END & CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS AND REPORT TO ADG.

REDUNDANT OPEN DRAIN TO BE FILLED AS PART OF EARTHWORKS. EXISTING DRAIN TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO FILLING. EXISTING DRAIN BATTERS TO BE BENCHED PRIOR TO FILLING.

EXISTING TEMPORARY CULVERT CROSSING TO BE REMOVED FROM SITE

STAGE 4C SEWER MANHOLE TO BE PROTECTED AND MAINTAINED

STAGE 4C WATER RETICULATION TEMPORARY DEAD END TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS. CONTRACTOR TO EXPOSE PIPE END & CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS AND REPORT TO ADG.

STAGE 4C SEWER DN375 PVC TO BE PROTECTED AND MAINTAINED

STAGE 4C DN1200 RCP STORMWATER. CONTRACTOR TO EXPOSE PIPE END AND CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS & REPORT TO ADG.

STAGE 4C FOOTPATH TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4C FOOTPATH TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4B STORMWATER PROPERTY CONNECTION TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4B WATER RETICULATION TEMPORARY DEAD END TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4C WATER RETICULATION TEMPORARY DEAD END TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4B DN225 WATER TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

STAGE 4C DN300 WATER TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

EXISTING DN100 WATER SERVICE CONNECTION TO BE PROTECTED AND MAINTAINED THROUGHOUT WORKS

EXISTING WATER METER ASSEMBLY TO BE PROTECTED AND MAINTAINED THROUGHOUT WORKS

STAGE 4B

STAGE 4C

STAGE 4C DN1200 RCP STORMWATER

FUTURE STAGE 4E

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 10 20 30m
SCALE 1:500
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline	Status
CIVIL	APPROVAL

Designed By	Checked By	Approved By
HD	SW	SW

Project No.	Drawn By	Scale at A1
20172_014	AB	1:500

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Title: EXISTING FEATURES LAYOUT PLAN

Drawing No.: DN07F-0900-DRG-1002

Revision: B

PLOT DATE: 4/17/2025 1:31 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-0900-DRG-1002_EXISTING FEATURES LAYOUT PLAN.DWG

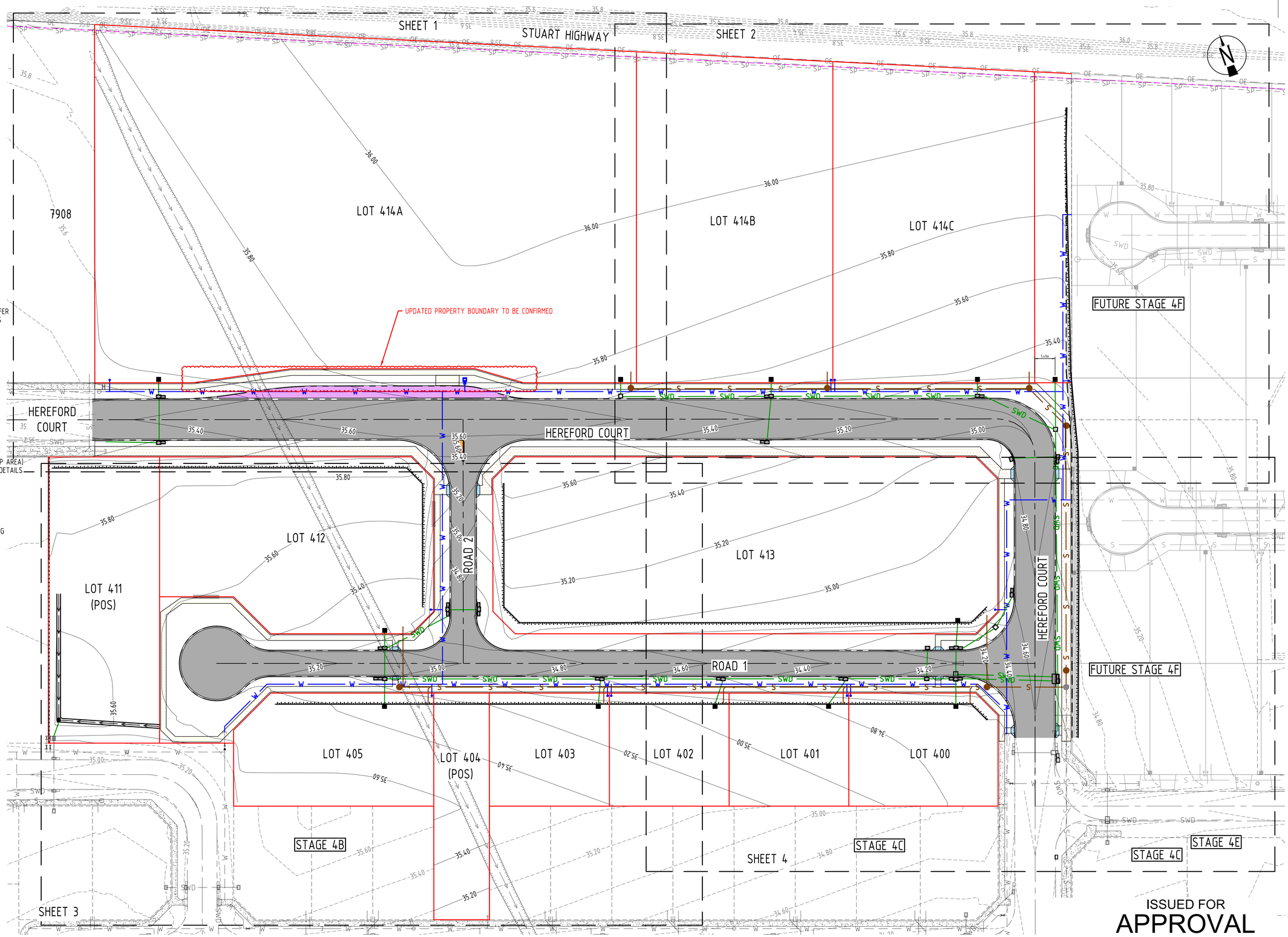
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- PROPOSED LOT BOUNDARY
- LOT ADJACENT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS
- DESIGN SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- EXISTING SEWER (RECORDS)
- EXISTING ELECTRICAL
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER
- EXISTING WATER
- EXISTING TOP OF BATTER
- EXISTING SWALE
- PROPOSED EASEMENT BOUNDARY
- PROPOSED STORWATER DRAINAGE
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED ROAD CENTRELINE
- PROPOSED UPRIGHT KERB AND GUTTER. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS
- PROPOSED MOUNTABLE KERB. REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS
- PROPOSED KERB ONLY. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS
- PROPOSED CONCRETE INVERT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS
- PROPOSED OPEN DRAIN
- PROPOSED BATTER
- PROPOSED RETAINING WALL
- PROPOSED ROAD
- PROPOSED CONCRETE PAVEMENT. (BUS STOP AREA) REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS
- PROPOSED 2.50m WIDE FOOTPATH
- PROPOSED 1.50m WIDE FOOTPATH
- PROPOSED CONCRETE MEDIAN. REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED KERB RAMP
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT
- INDICATIVE DRIVEWAY LOCATION
- DRAINAGE STRUCTURE LABEL (1/1)

NOTE:

1. FOR ROADWORKS & DRAINAGE NOTES & DETAILS REFER TO DRG DN07F-2000-DRG-1021.
2. FOR STORMWATER STRUCTURE PIT DETAILS REFER TO DRG DN07F-3000-DRG-2009 & DN07F-3000-DRG-2010



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 10 20 30m
SCALE 1:500
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:500

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Title: ROADWORKS & DRAINAGE OVERALL LAYOUT PLAN
Drawing No.: DN07F-2000-DRG-1003
Revision: D

PLOT DATE: 12/19/2025 8:10 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1003_ROADWORKS & DRAINAGE OVERALL LAYOUT PLAN.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:

1. FOR ROADWORKS & DRAINAGE LEGEND REFER TO DRG DN07F-2000-DRG-1003.
2. FOR ROADWORKS & DRAINAGE NOTES & DETAILS REFER TO DRG DN07F-2000-DRG-1021.
3. FOR STORMWATER STRUCTURE PIT DETAILS REFER TO DRG DN07F-3000-DRG-2009 & DN07F-3000-DRG-2010

STUART HIGHWAY

7908

LOT 414A

HEREFORD COURT

REDUNDANT OPEN DRAIN TO BE FILLED AS PART OF EARTHWORKS. EXISTING DRAIN TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO FILLING. EXISTING DRAIN BATTERS TO BE BENCHED PRIOR TO FILLING

PROVIDE SLAB FOR 3 BAY SHELTER IN ACCORDANCE WITH NTG STD DRG CS3700 TO CS3705. SHELTER TO BE INSTALLED UPON COMMISSION OF BUS ROUTE

PROPOSED CONCRETE MEDIAN. REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS

RSK02. REFER TO DRG DN07F-2000-DRG-1017 FOR KERB ALIGNMENT & LONGITUDINAL SECTION

RSK01. REFER TO DRG DN07F-2000-DRG-1017 FOR KERB ALIGNMENT & LONGITUDINAL SECTION

UPDATED PROPERTY BOUNDARY TO BE CONFIRMED

DEMOLISH AND REMOVE FROM SITE TEMPORARY TURNAROUND. TIE IN NEATLY WITH EXISTING PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR TIE IN DETAILS

EXISTING DN300 WATER

TIE IN NEATLY TO EXISTING KERB

TIE IN NEATLY WITH EXISTING FOOTPATH. REFER BERRIMAH FARM STD DRG USG008 FOR DETAILS

EXISTING DN750 STORMWATER

EXISTING DN225 SEWER

CONNECT TO EXISTING STORMWATER DRAINAGE. CONTRACTOR TO CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS & REPORT TO ADG.

38.75m | 38.05m | 19.15m | 17.20m | 4.70m | 11.00m CARRIAGEWAY | 23.80m ROAD RESERVE

REFER DRG DN07F-2000-DRG-1005 FOR CONTINUATION

REFER DRG DN07F-2000-DRG-1006 FOR CONTINUATION

ISSUED FOR APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250 AT ORIGINAL SIZE (A1)

DCOH NORTHCREST

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F BERRIMAH, NT 0828

Discipline: CIVIL

Status: APPROVAL

Designed By: HD | Checked By: SW | Approved By: SW

Project No: 20172_014 | Drawn By: AB | Scale at A1: 1:250

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Title: ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 1 OF 4

Drawing No.: DN07F-2000-DRG-1004 | Revision: D

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1004_ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 1 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
1. FOR ROADWORKS & DRAINAGE LEGEND REFER TO DRG DN07F-2000-DRG-1003.
2. FOR ROADWORKS & DRAINAGE NOTES & DETAILS REFER TO DRG DN07F-2000-DRG-1021.
3. FOR STORMWATER STRUCTURE PIT DETAILS REFER TO DRG DN07F-3000-DRG-2009 & DN07F-3000-DRG-2010

STUART HIGHWAY

REFER DRG DN07F-2000-DRG-1004 FOR CONTINUATION

LOT 414B

LOT 414C

FUTURE STAGE 4F

HEREFORD COURT

20.00m ROAD RESERVE

11.00m CARRIAGEWAY

16.64m

15.46m

5.49m

1.50m FOOTPATH

INDICATIVE DRIVEWAY LOCATION

REFER TO DRG DN07F-2000-DRG-1020 FOR CURVE WIDENING DETAILS

REFER DRG DN07F-2000-DRG-1007 FOR CONTINUATION

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250
AT ORIGINAL SIZE (A1)

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:250

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Title: ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 2 OF 4
Drawing No.: DN07F-2000-DRG-1005
Revision: C

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CIVIL\DWG\DN07F-2000-DRG-1005_ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 2 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

REFER DRG DN07F-2000-DRG-1004 FOR CONTINUATION

LOT 411
(POS)

LOT 412

LOT 405

LOT 404
(POS)

LOT 403

LOT 402

STAGE 4B

ROAD 1

ROAD 2

PROPOSED RETAINING WALL MAX 700mm HIGH.
REFER DETAIL ON DRG DN07F-2000-DRG-1029

INDICATIVE DRIVEWAY LOCATION

PROPOSED CUL-DE-SAC (RSK10). REFER TO DRG DN07F-2000-DRG-1018 FOR KERB ALIGNMENT & LONGITUDINAL SECTION

RSK04. REFER TO DRG DN07F-2000-DRG-1017 FOR KERB ALIGNMENT & LONGITUDINAL SECTION

RSK03. REFER TO DRG DN07F-2000-DRG-1017 FOR KERB ALIGNMENT & LONGITUDINAL SECTION

REDUNDANT OPEN DRAIN TO BE FILLED AS PART OF EARTHWORKS. EXISTING DRAIN TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO FILLING. EXISTING DRAIN BATTERS TO BE BENCHED PRIOR TO FILLING

PROPOSED OPEN DRAIN. REFER TO DRG DN07F-2000-DRG-1029 FOR DETAILS

PROPOSED STORMWATER MAIN TO CONNECT INTO EXISTING STORMWATER GIP

16.00m ROAD RESERVE

7.00m CARRIAGEWAY

R10.00m

7.20m

13.28m

3.00m

375 DIA

450 DIA

750 DIA

SWD

UKG

NOTE:

1. FOR ROADWORKS & DRAINAGE LEGEND REFER TO DRG DN07F-2000-DRG-1003.
2. FOR ROADWORKS & DRAINAGE NOTES & DETAILS REFER TO DRG DN07F-2000-DRG-1021.
3. FOR STORMWATER STRUCTURE PIT DETAILS REFER TO DRG DN07F-3000-DRG-2009 & DN07F-3000-DRG-2010

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL

Status: APPROVAL

Designed By: HD | Checked By: SW | Approved By: SW

Project No.: 20172_014 | Drawn By: AB | Scale at A1: 1:250

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Title: ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 3 OF 4

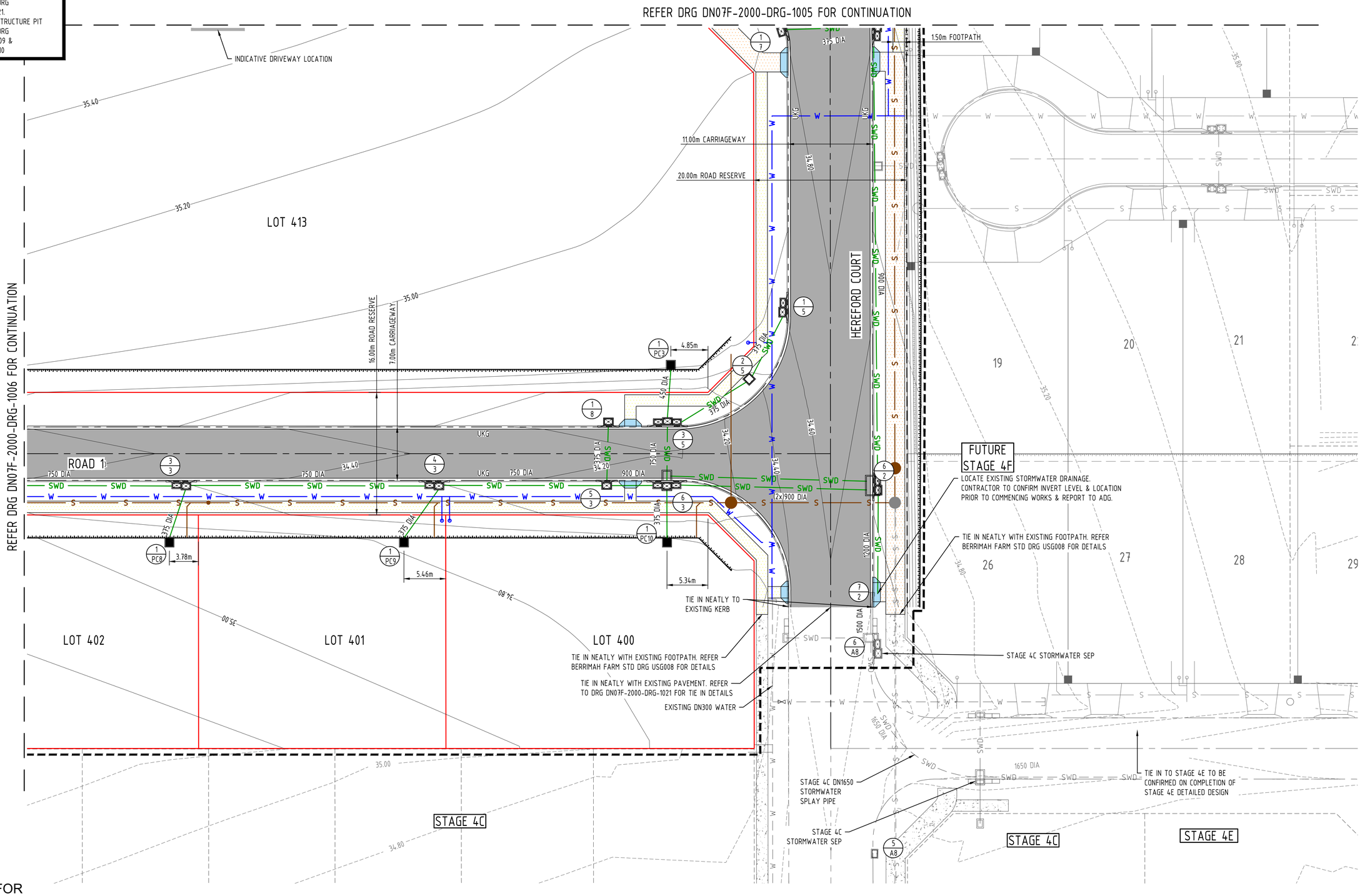
Drawing No.: DN07F-2000-DRG-1006 | Revision: D

PLOT DATE: 12/19/2025 8:11 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CIVIL\DWG\DN07F-2000-DRG-1006_ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 3 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:

1. FOR ROADWORKS & DRAINAGE LEGEND REFER TO DRG DN07F-2000-DRG-1003.
2. FOR ROADWORKS & DRAINAGE NOTES & DETAILS REFER TO DRG DN07F-2000-DRG-1021.
3. FOR STORMWATER STRUCTURE PIT DETAILS REFER TO DRG DN07F-3000-DRG-2009 & DN07F-3000-DRG-2010



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 5 10 15m
SCALE 1:250
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By: HD	Checked By: SW	Approved By: SW
Project No.: 20172_014	Drawn By: AB	Scale at A1: 1:250

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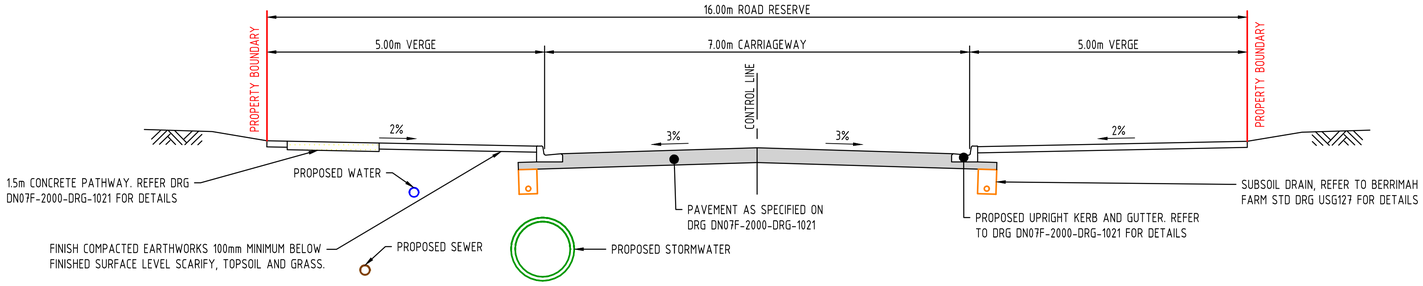
Title: ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 4 OF 4

Drawing No.: DN07F-2000-DRG-1007
Revision: C

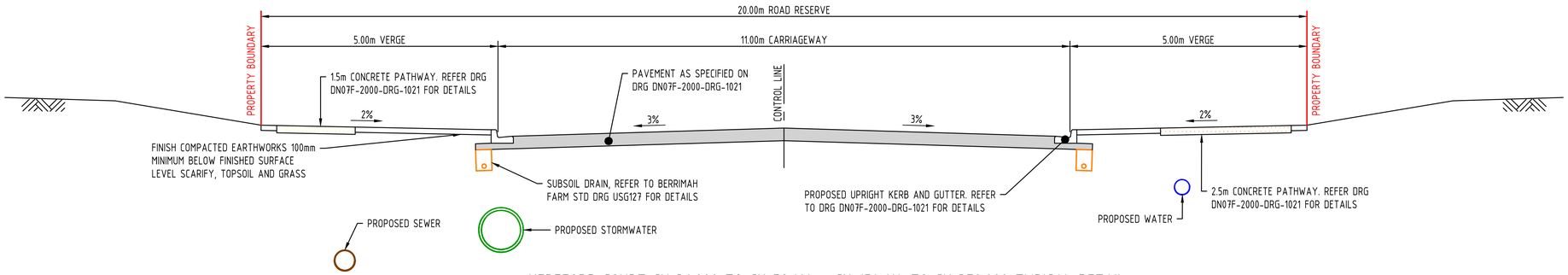
PLOT DATE: 12/19/2025 8:10 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CIVIL\DWG\DN07F-2000-DRG-1007_ROADWORKS & DRAINAGE LAYOUT PLAN SHEET 4 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



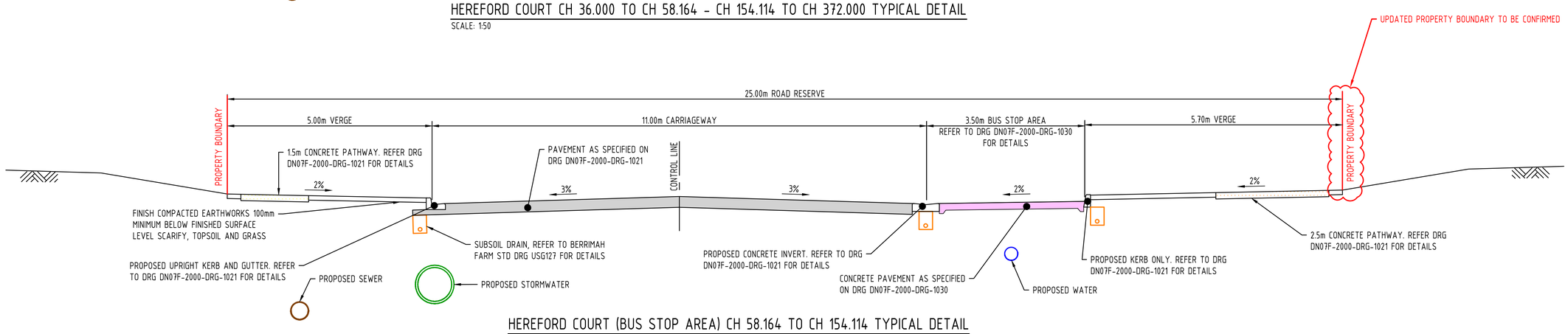
ROAD 1 CH 0.000 TO CH 220.819 & ROAD 2 CH 0.000 TO 65.839 TYPICAL DETAIL

SCALE: 1:50



HEREFORD COURT CH 36.000 TO CH 58.164 - CH 154.114 TO CH 372.000 TYPICAL DETAIL

SCALE: 1:50



HEREFORD COURT (BUS STOP AREA) CH 58.164 TO CH 154.114 TYPICAL DETAIL

SCALE: 1:50

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 1 2 3m
SCALE 1:50
AT ORIGINAL SIZE (A1)

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NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD	Discipline: CIVIL		Status: APPROVAL
Project Name: NORTHCREST - STAGE 7F BERRIMAH, NT 0828	Designed By: HD	Checked By: SW	Approved By: SW
	Project No.: 20172_014	Drawn By: AB	Scale at A1: 1:50

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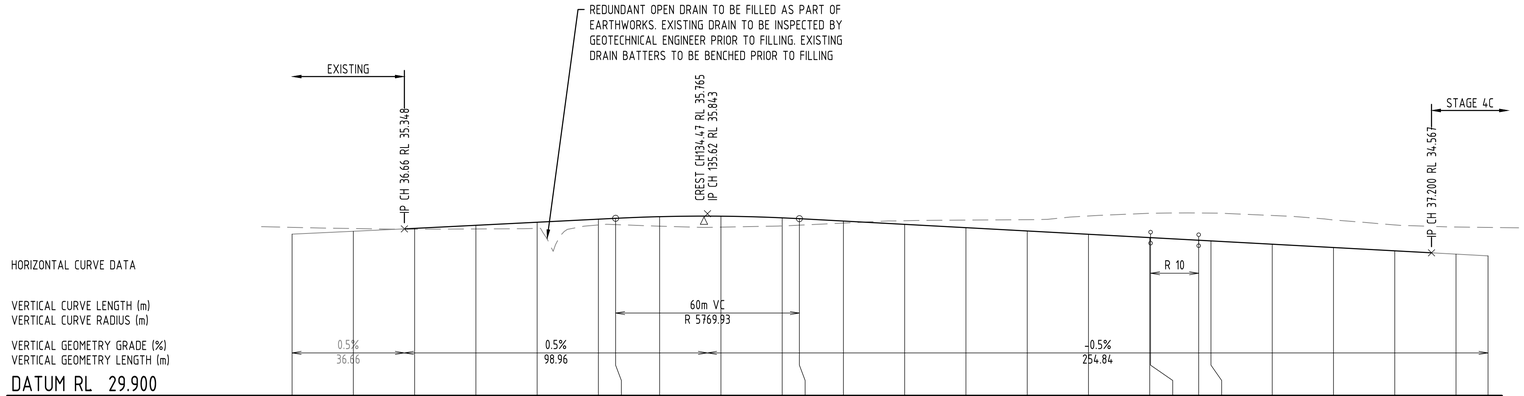
Title: ROADWORKS TYPICAL CROSS SECTIONS

Drawing No.: DN07F-2000-DRG-1008

Revision: C

PLOT DATE: 12/19/2025 8:08 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1008_ROADWORKS TYPICAL CROSS SECTIONS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL 29.900

DESIGN SURFACE LEVEL	35.176	35.270	35.365	35.465	35.565	35.665	35.693	35.747	35.762	35.708	35.681	35.603	35.495	35.387	35.279	35.171	35.063	35.062	34.977	34.955	34.847	34.739	34.631	34.523	34.467
EXISTING SURFACE LEVEL	35.397	35.359	35.338	35.346	35.366	35.476	35.487	35.436	35.405	35.442	35.469	35.537	35.615	35.635	35.648	35.769	35.857	35.858	35.866	35.863	35.785	35.639	35.476	35.408	35.395
CUT / FILL DEPTH	-0.221	-0.090	0.027	0.119	0.199	0.189	0.205	0.311	0.357	0.266	0.212	0.066	-0.119	-0.248	-0.368	-0.597	-0.794	-0.796	-0.889	-0.908	-0.937	-0.900	-0.845	-0.885	-0.928
CONTROL LINE CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	105.620	120.000	140.000	160.000	165.620	180.000	200.000	220.000	240.000	260.000	280.000	280.271	295.979	300.000	320.000	340.000	360.000	380.000	390.458

A1 SCALE: H 1:1000 V 1:100

LONGITUDINAL SECTION HEREFORD COURT

HEREFORD COURT HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10237.065	624120.968	35.176	107°49'11.34"			
	10.000	10246.585	624117.908	35.223	107°49'11.34"			
	20.000	10256.105	624114.847	35.270	107°49'11.34"			
	30.000	10265.625	624111.787	35.317	107°49'11.34"			
	40.000	10275.146	624108.727	35.365	107°49'11.34"			
	50.000	10284.666	624105.667	35.415	107°49'11.34"			
	60.000	10294.186	624102.606	35.465	107°49'11.34"			
	70.000	10303.706	624099.546	35.515	107°49'11.34"			
	80.000	10313.227	624096.486	35.565	107°49'11.34"			
	90.000	10322.747	624093.426	35.615	107°49'11.34"			
	100.000	10332.267	624090.365	35.665	107°49'11.34"			
	110.000	10341.787	624087.305	35.713	107°49'11.34"			
	120.000	10351.308	624084.245	35.747	107°49'11.34"			
	130.000	10360.828	624081.185	35.763	107°49'11.34"			
	140.000	10370.348	624078.124	35.762	107°49'11.34"			
	150.000	10379.868	624075.064	35.744	107°49'11.34"			
	160.000	10389.388	624072.004	35.708	107°49'11.34"			
	170.000	10398.909	624068.944	35.657	107°49'11.34"			
	180.000	10408.429	624065.883	35.603	107°49'11.34"			
	190.000	10417.949	624062.823	35.549	107°49'11.34"			
	200.000	10427.469	624059.763	35.495	107°49'11.34"			
	210.000	10436.990	624056.703	35.441	107°49'11.34"			
	220.000	10446.510	624053.642	35.387	107°49'11.34"			
	230.000	10456.030	624050.582	35.333	107°49'11.34"			
	240.000	10465.550	624047.522	35.279	107°49'11.34"			
	250.000	10475.071	624044.462	35.225	107°49'11.34"			
	260.000	10484.591	624041.402	35.171	107°49'11.34"			
	270.000	10494.111	624038.341	35.117	107°49'11.34"			
	280.000	10503.631	624035.281	35.063	107°49'11.34"			
TC	280.271	10503.890	624035.198	35.062	107°49'11.34"			
IP 2	288.125	10513.410	624032.138	35.019		R = 10.000	15.708	90°00'00.00"
	290.000	10510.421	624028.508	35.009	163°33'39.35"			
CT	295.979	10510.350	624022.618	34.977	197°49'11.34"			
	300.000	10509.119	624018.790	34.955	197°49'11.34"			
	310.000	10506.059	624009.269	34.901	197°49'11.34"			
	320.000	10502.999	623999.749	34.847	197°49'11.34"			
	330.000	10499.938	623990.229	34.793	197°49'11.34"			
	340.000	10496.878	623980.709	34.739	197°49'11.34"			
	350.000	10493.818	623971.189	34.685	197°49'11.34"			
	360.000	10490.758	623961.668	34.631	197°49'11.34"			
	370.000	10487.697	623952.148	34.577	197°49'11.34"			
	380.000	10484.637	623942.628	34.523	197°49'11.34"			
	390.000	10481.577	623933.108	34.469	197°49'11.34"			
IP 3	390.458	10481.437	623932.672	34.467	197°49'11.34"			

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Designed By: HD | Checked By: SW | Approved By: SW
Project No.: 20172_014 | Drawn By: AB | Scale at A1: AS SHOWN
Status: APPROVAL

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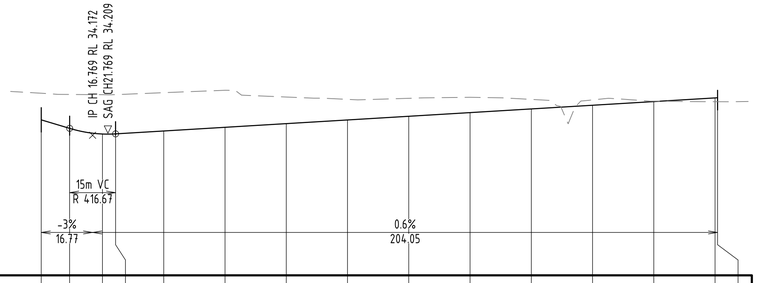
Title: HEREFORD COURT
LONGITUDINAL SECTION

Drawing No.: DN07F-2000-DRG-1009
Revision: B

PLOT DATE: 4/17/2025 11:51 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1009_HEREFORD COURT LONGITUDINAL SECTION.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

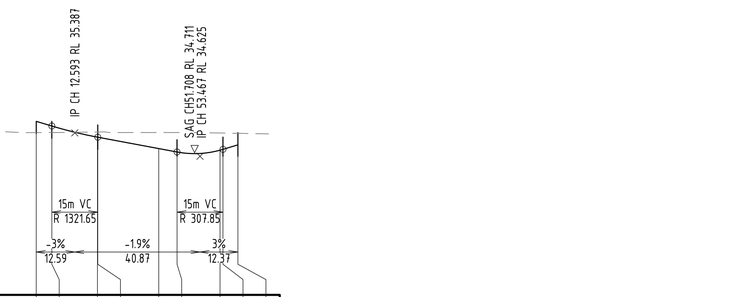
DATUM RL 29.600

DESIGN SURFACE LEVEL	34.675	34.397	34.213	34.217	34.311	34.431	34.551	34.671	34.791	34.911	35.031	35.151	35.271	35.391	35.396
EXISTING SURFACE LEVEL	35.544	35.504	35.497	35.498	35.563	35.640	35.420	35.344	35.378	35.411	35.342	35.326	35.286	35.268	35.267
CUT / FILL DEPTH	-0.869	-1.107	-1.283	-1.281	-1.251	-1.209	-0.869	-0.672	-0.587	-0.500	-0.311	-0.174	-0.015	0.124	0.129
CONTROL LINE CHAINAGE	0.000	9.269	20.000	24.269	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	220.819

A1 SCALE: H 1:1000 V 1:100

LONGITUDINAL SECTION ROAD 1

ROAD 1 HORIZONTAL ALIGNMENT					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	10493.219	623969.325	34.675	287°52'17.19"
	10.000	10483.701	623972.394	34.376	287°52'17.19"
	20.000	10474.184	623975.462	34.213	287°52'17.19"
	30.000	10464.666	623978.531	34.251	287°52'17.19"
	40.000	10455.149	623981.600	34.311	287°52'17.19"
	50.000	10445.632	623984.669	34.371	287°52'17.19"
	60.000	10436.114	623987.738	34.431	287°52'17.19"
	70.000	10426.597	623990.807	34.491	287°52'17.19"
	80.000	10417.079	623993.875	34.551	287°52'17.19"
	90.000	10407.562	623996.944	34.611	287°52'17.19"
	100.000	10398.044	624000.013	34.671	287°52'17.19"
	110.000	10388.527	624003.082	34.731	287°52'17.19"
	120.000	10379.009	624006.151	34.791	287°52'17.19"
	130.000	10369.492	624009.219	34.851	287°52'17.19"
	140.000	10359.974	624012.288	34.911	287°52'17.19"
	150.000	10350.457	624015.357	34.971	287°52'17.19"
	160.000	10340.939	624018.426	35.031	287°52'17.19"
	170.000	10331.422	624021.495	35.091	287°52'17.19"
	180.000	10321.904	624024.564	35.151	287°52'17.19"
	190.000	10312.387	624027.632	35.211	287°52'17.19"
	200.000	10302.869	624030.701	35.271	287°52'17.19"
	210.000	10293.352	624033.770	35.331	287°52'17.19"
	220.000	10283.834	624036.839	35.391	287°52'17.19"
IP 2	220.819	10283.055	624037.090	35.396	287°52'17.19"



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL 30.100

DESIGN SURFACE LEVEL	35.765	35.612	35.249	35.247	34.876	34.765	34.823	34.850	34.997
EXISTING SURFACE LEVEL	35.397	35.400	35.417	35.417	35.399	35.399	35.384	35.383	35.374
CUT / FILL DEPTH	0.368	0.213	-0.168	-0.170	-0.523	-0.635	-0.561	-0.532	-0.377
CONTROL LINE CHAINAGE	0.000	5.093	20.000	20.093	40.000	45.967	60.000	60.967	65.839

A1 SCALE: H 1:1000 V 1:100

LONGITUDINAL SECTION ROAD 2

ROAD 2 HORIZONTAL ALIGNMENT					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	10366.557	624079.343	35.765	197°49'11.34"
	10.000	10363.497	624069.823	35.474	197°49'11.34"
	20.000	10360.437	624060.302	35.249	197°49'11.34"
	30.000	10357.377	624050.782	35.063	197°49'11.34"
	40.000	10354.316	624041.262	34.876	197°49'11.34"
	50.000	10351.256	624031.742	34.716	197°49'11.34"
	60.000	10348.196	624022.222	34.823	197°49'11.34"
IP 2	65.839	10346.409	624016.662	34.997	197°49'11.34"

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: ROAD 1 & ROAD 2
LONGITUDINAL SECTIONS

Drawing No.: DN07F-2000-DRG-1010
Revision: B

PLOT DATE: 4/17/2025 11:51 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1010_ROAD 1 & ROAD 2 LONGITUDINAL SECTIONS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

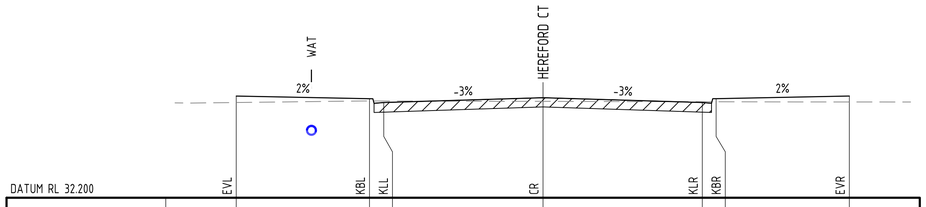
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

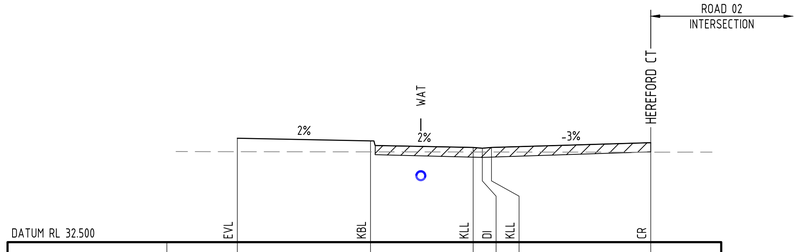
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



	EVL	KBL	KLL	CR	KLR	KBR	EVR
DATUM RL 32.200							
FINISHED SURFACE	35.519	35.432	35.309	35.465	35.309	35.434	35.521
EXISTING SURFACE LEVEL	35.309	35.358	35.357	35.346	35.334	35.333	35.327
OFFSET	-10.017	-5.667	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

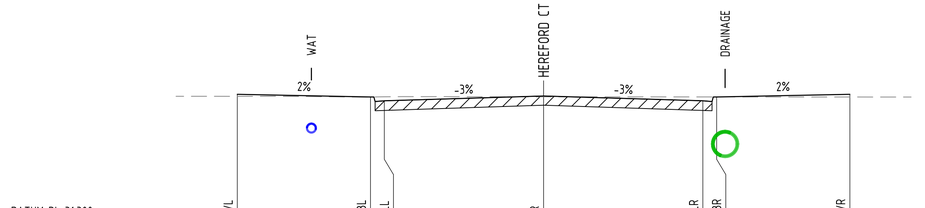
CH 60.000



	EVL	KBL	KLL	DI	KLL	CR
DATUM RL 32.500						
FINISHED SURFACE	35.892	35.805	35.591	35.566	35.591	35.747
EXISTING SURFACE LEVEL	35.452	35.447	35.442	35.442	35.442	35.436
OFFSET	-13.500	-9.150	-5.800	-5.500	-5.200	0.000

A1 SCALE: H 1:100 V 1:100

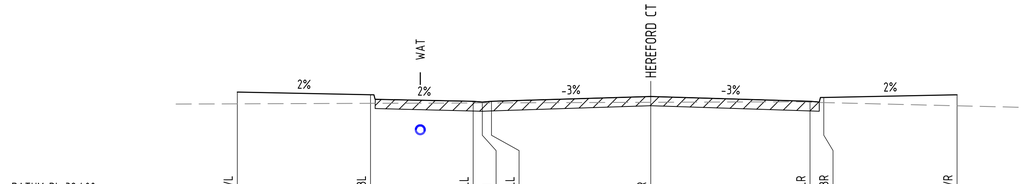
CH 120.000



	EVL	KBL	KLL	CR	KLR	KBR	EVR
DATUM RL 31.300							
FINISHED SURFACE	35.421	35.334	35.209	35.365	35.209	35.334	35.421
EXISTING SURFACE LEVEL	35.355	35.333	35.338	35.338	35.335	35.335	35.332
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

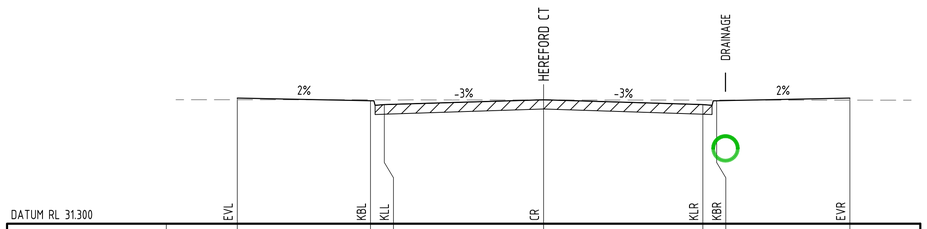
CH 40.000



	EVL	KBL	KLL	DI	KLL	CR	KLR	KBR	EVR
DATUM RL 32.400									
FINISHED SURFACE	35.810	35.723	35.509	35.484	35.509	35.665	35.509	35.634	35.721
EXISTING SURFACE LEVEL	35.426	35.442	35.454	35.456	35.457	35.476	35.477	35.467	35.362
OFFSET	-13.500	-9.150	-5.800	-5.500	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

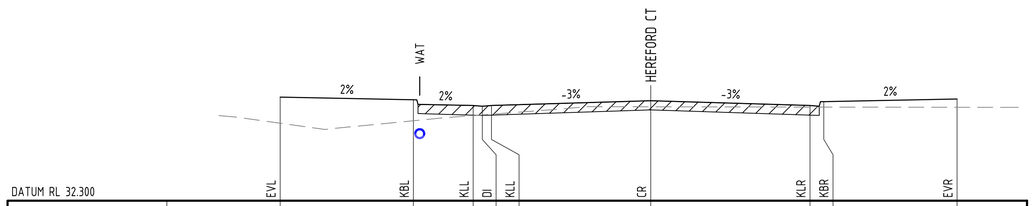
CH 100.000



	EVL	KBL	KLL	CR	KLR	KBR	EVR
DATUM RL 31.300							
FINISHED SURFACE	35.401	35.314	35.189	35.345	35.189	35.314	35.401
EXISTING SURFACE LEVEL	35.347	35.345	35.341	35.339	35.336	35.336	35.333
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 36.000



	EVL	KBL	KLL	DI	KLL	CR	KLR	KBR	EVR
DATUM RL 32.300									
FINISHED SURFACE	35.682	35.595	35.409	35.384	35.409	35.565	35.409	35.534	35.621
EXISTING SURFACE LEVEL	34.829	34.910	35.079	35.101	35.123	35.366	35.357	35.356	35.349
OFFSET	-12.100	-7.750	-5.800	-5.500	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 80.000

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

PLOT DATE: 4/17/2025 11:52 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1011_HEREFORD COURT CROSS SECTIONS SHEET 1 OF 3.DWG

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL

Status: APPROVAL

Designed By	Checked By	Approved By
HD	SW	SW
Project No.	Drawn By	Scale at A1
20172_014	AB	AS SHOWN

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Title: HEREFORD COURT
CROSS SECTIONS SHEET 1 OF 3

Drawing No.: DN07F-2000-DRG-1011

Revision: B

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

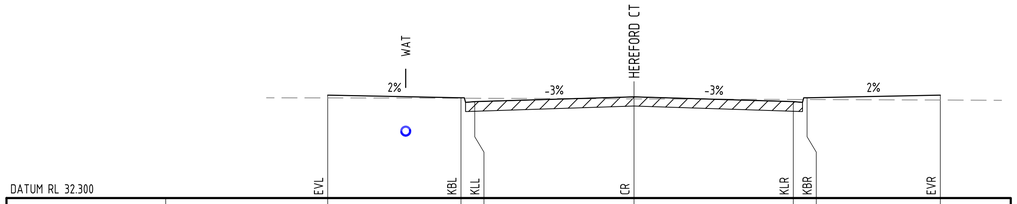
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

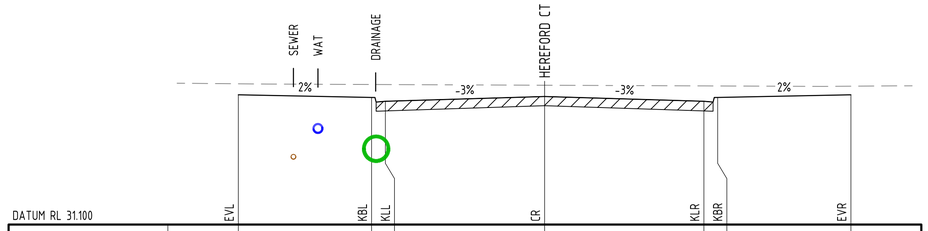
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



DATUM RL 32.300	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.659	35.572	35.447	35.603	35.447	35.572	35.659
EXISTING SURFACE LEVEL	35.568	35.559	35.557	35.537	35.517	35.516	35.499
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

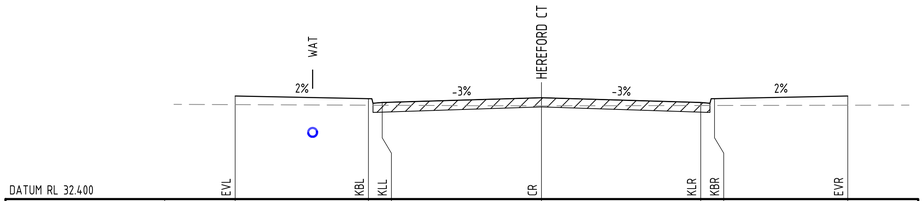
CH 180.000



DATUM RL 31.100	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.335	35.248	35.123	35.279	35.123	35.248	35.335
EXISTING SURFACE LEVEL	35.694	35.671	35.669	35.648	35.626	35.624	35.616
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

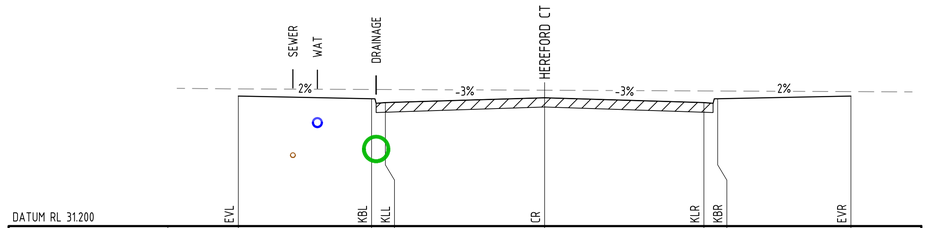
CH 240.000



DATUM RL 32.400	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.764	35.677	35.552	35.708	35.552	35.677	35.764
EXISTING SURFACE LEVEL	35.683	35.664	35.462	35.442	35.454	35.455	35.463
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

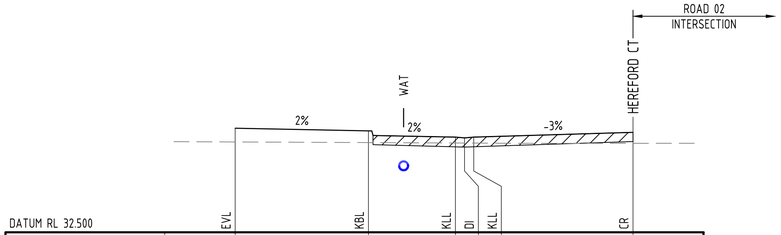
CH 160.000



DATUM RL 31.200	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.443	35.356	35.231	35.387	35.231	35.356	35.443
EXISTING SURFACE LEVEL	35.677	35.659	35.657	35.635	35.611	35.609	35.589
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

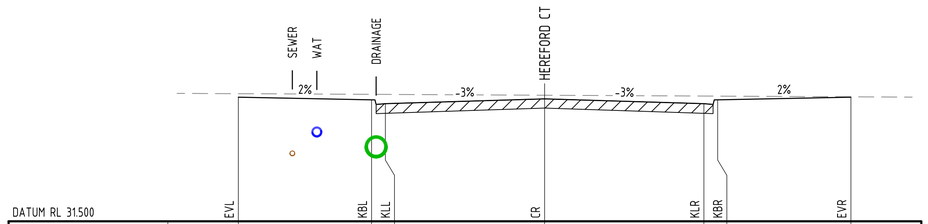
CH 220.000



DATUM RL 32.500	EVL	KBL	KLL	DI	KLL	CR
FINISHED SURFACE	35.897	35.810	35.606	35.581	35.606	35.762
EXISTING SURFACE LEVEL	35.448	35.428	35.414	35.413	35.412	35.405
OFFSET	-12.989	-8.639	-5.800	-5.500	-5.200	0.000

A1 SCALE: H 1:100 V 1:100

CH 140.000



DATUM RL 31.500	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.551	35.464	35.339	35.495	35.339	35.464	35.551
EXISTING SURFACE LEVEL	35.665	35.644	35.641	35.615	35.588	35.585	35.563
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 200.000

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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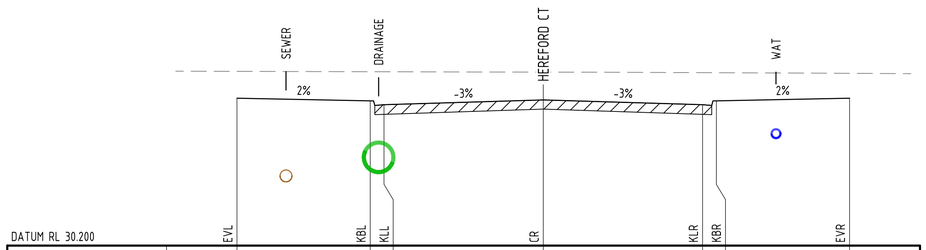
Title: HEREFORD COURT
CROSS SECTIONS SHEET 2 OF 3

Drawing No.: DN07F-2000-DRG-1012
Revision: B

PLOT DATE: 4/17/2025 11:52 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1012_HEREFORD COURT CROSS SECTIONS SHEET 2 OF 3.DWG

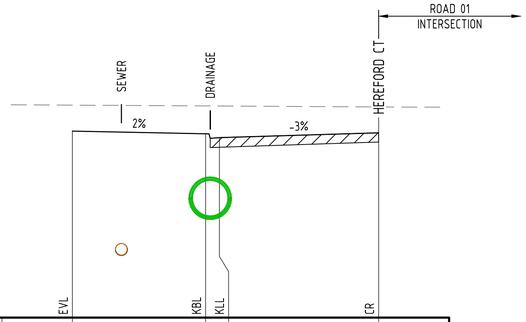
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



DATUM RL 30.200	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.011	34.924	34.799	34.955	34.799	34.924	35.011
EXISTING SURFACE LEVEL	35.888	35.876	35.875	35.863	35.846	35.844	35.824
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 300.000



DATUM RL 28.600	EVL	KBL	KLL	CR
FINISHED SURFACE	34.687	34.600	34.475	34.631
EXISTING SURFACE LEVEL	35.535	35.510	35.507	35.476
OFFSET	-10.000	-5.650	-5.200	0.000

A1 SCALE: H 1:100 V 1:100

CH 360.000

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

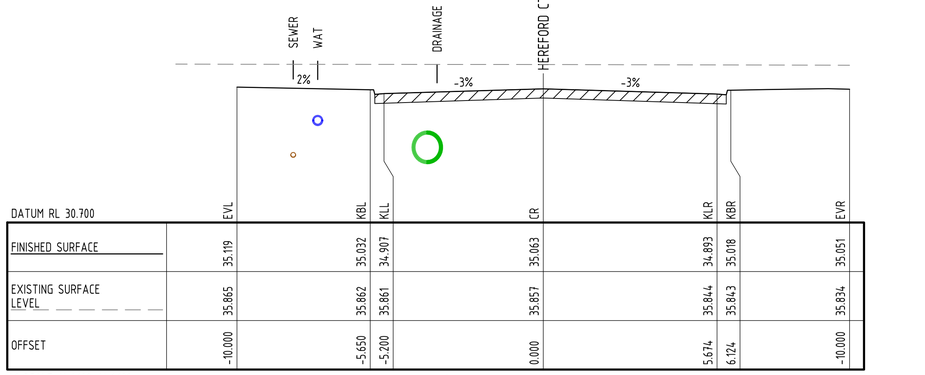
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

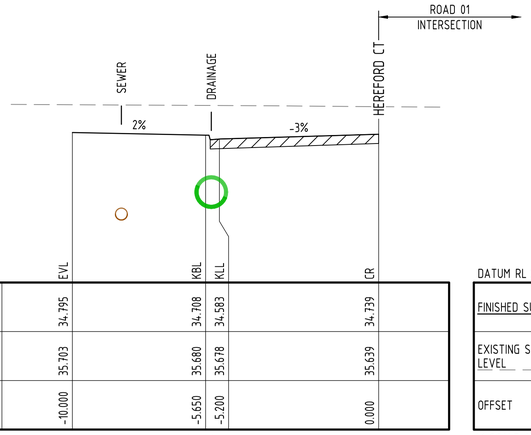
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



DATUM RL 30.700	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.119	35.032	34.907	35.063	34.893	35.018	35.051
EXISTING SURFACE LEVEL	35.865	35.862	35.861	35.857	35.844	35.843	35.834
OFFSET	-10.000	-5.650	-5.200	0.000	5.674	6.124	-10.000

A1 SCALE: H 1:100 V 1:100

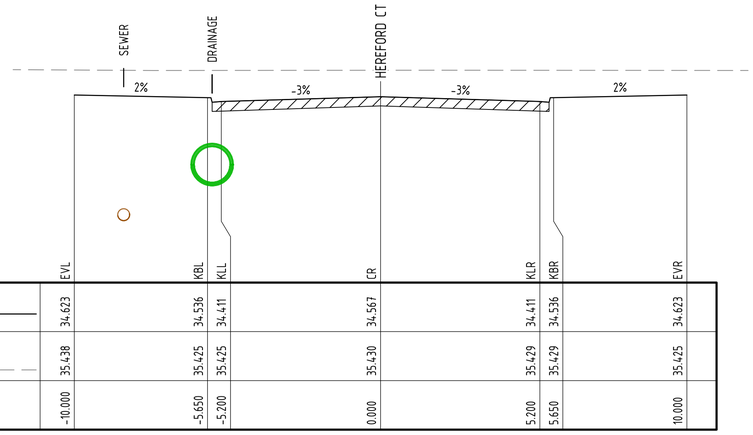
CH 280.000



DATUM RL 29.900	EVL	KBL	KLL	CR
FINISHED SURFACE	34.795	34.708	34.583	34.739
EXISTING SURFACE LEVEL	35.703	35.680	35.678	35.639
OFFSET	-10.000	-5.650	-5.200	0.000

A1 SCALE: H 1:100 V 1:100

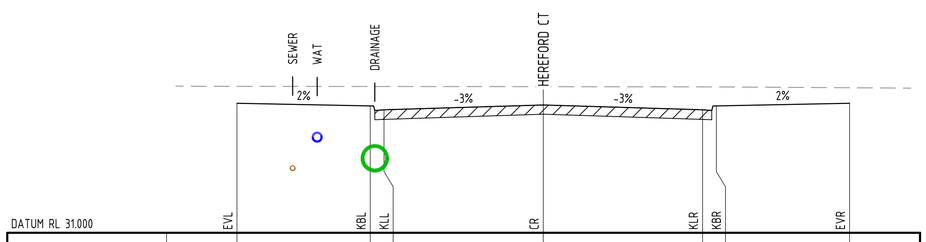
CH 340.000



DATUM RL 28.500	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.623	34.536	34.411	34.567	34.411	34.536	34.623
EXISTING SURFACE LEVEL	35.438	35.425	35.425	35.430	35.429	35.429	35.425
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

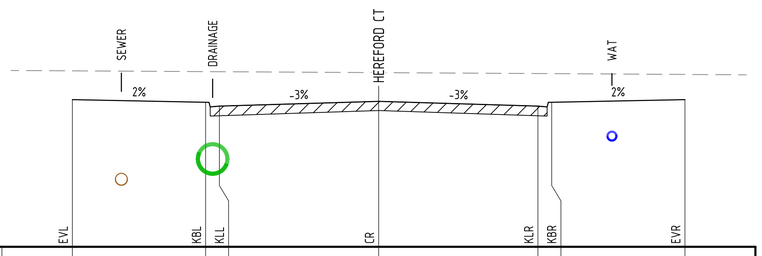
CH 372.000



DATUM RL 31.000	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.227	35.140	35.015	35.171	35.015	35.140	35.227
EXISTING SURFACE LEVEL	35.780	35.775	35.775	35.769	35.763	35.761	35.734
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 260.000



DATUM RL 30.100	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.903	34.816	34.691	34.847	34.691	34.816	34.903
EXISTING SURFACE LEVEL	35.843	35.818	35.815	35.785	35.755	35.752	35.725
OFFSET	-10.000	-5.650	-5.200	0.000	5.200	5.650	10.000

A1 SCALE: H 1:100 V 1:100

CH 320.000

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: HEREFORD COURT
CROSS SECTIONS SHEET 3 OF 3

Drawing No.: DN07F-2000-DRG-1013
Revision: B

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

PLOT DATE: 4/17/2025 11:52 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1013_HEREFORD COURT CROSS SECTIONS SHEET 3 OF 3.DWG

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

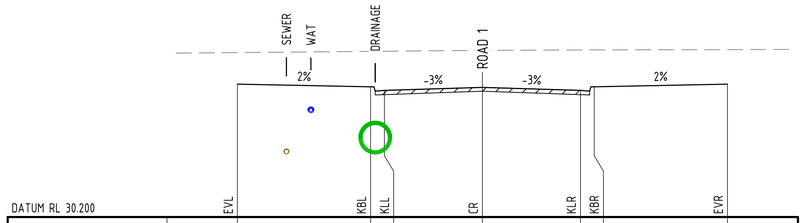
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

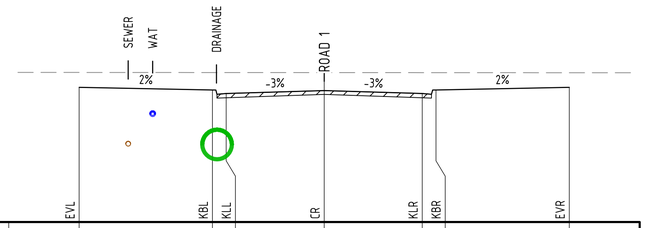
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



DATUM RL 30.200	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.537	34.450	34.335	34.431	34.335	34.450	34.537
EXISTING SURFACE LEVEL	35.568	35.608	35.612	35.640	35.654	35.655	35.665
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

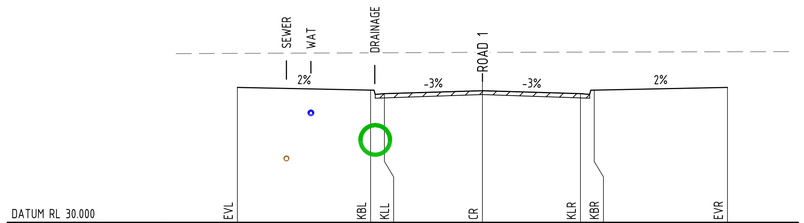
CH 60.000



DATUM RL 30.500	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.897	34.810	34.695	34.791	34.695	34.810	34.897
EXISTING SURFACE LEVEL	35.383	35.380	35.380	35.378	35.376	35.376	35.374
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

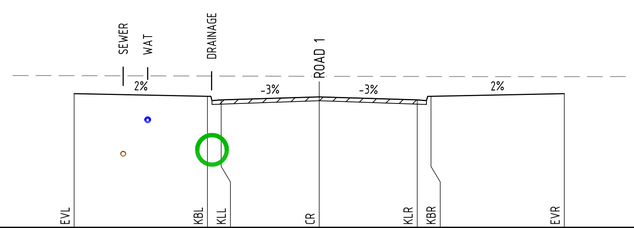
CH 120.000



DATUM RL 30.000	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.417	34.330	34.215	34.311	34.215	34.330	34.417
EXISTING SURFACE LEVEL	35.529	35.547	35.549	35.563	35.571	35.572	35.582
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

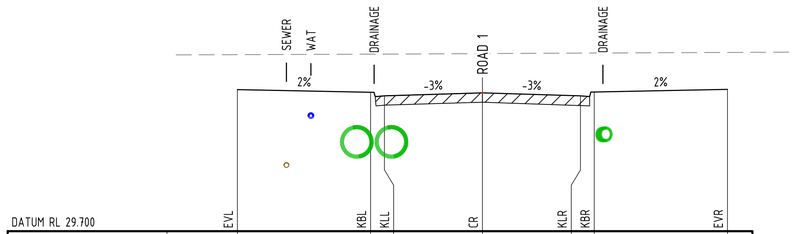
CH 40.000



DATUM RL 30.400	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.777	34.690	34.575	34.671	34.575	34.690	34.777
EXISTING SURFACE LEVEL	35.366	35.354	35.352	35.344	35.338	35.338	35.334
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

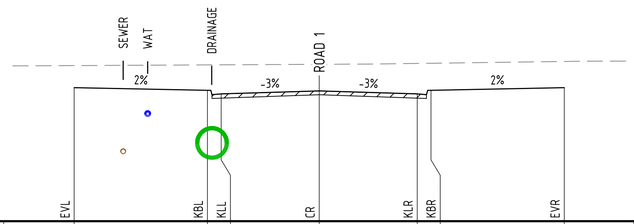
CH 100.000



DATUM RL 29.700	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.320	34.233	34.118	34.214	34.118	34.233	34.320
EXISTING SURFACE LEVEL	35.462	35.478	35.479	35.497	35.512	35.514	35.534
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 19.884



DATUM RL 30.300	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.657	34.570	34.455	34.551	34.455	34.570	34.657
EXISTING SURFACE LEVEL	35.379	35.401	35.404	35.420	35.449	35.455	35.513
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 80.000

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
SCALE 1:1000 HORIZONTAL
0 10 20 30 40 50m
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL

Status: APPROVAL

Designed By	Checked By	Approved By
HD	SW	SW
Project No.	**Drawn By**	**Scale at A1**
20172_014	AB	AS SHOWN

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Title: ROAD 1 CROSS SECTIONS
SHEET 1 OF 2

Drawing No.: DN07F-2000-DRG-1014

Revision: B

PLOT DATE: 4/17/2025 12:55 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1014_ROAD 1 CROSS SECTIONS SHEET 1 OF 2.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

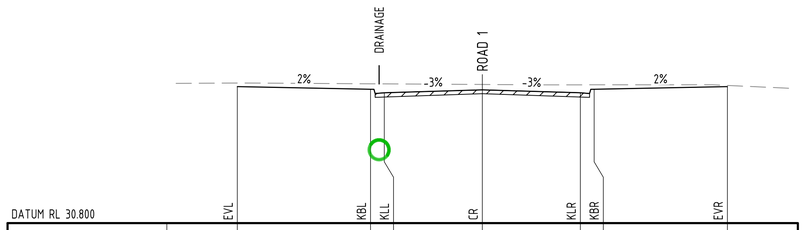
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

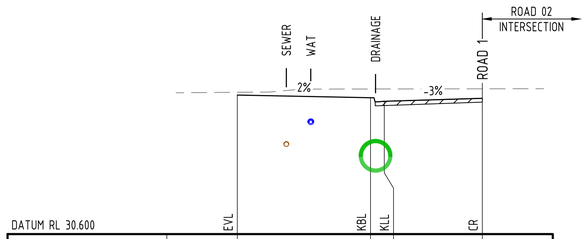
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



DATUM RL 30.800	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.257	35.170	35.055	35.151	35.055	35.170	35.257
EXISTING SURFACE LEVEL	35.373	35.348	35.345	35.326	35.314	35.315	35.295
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

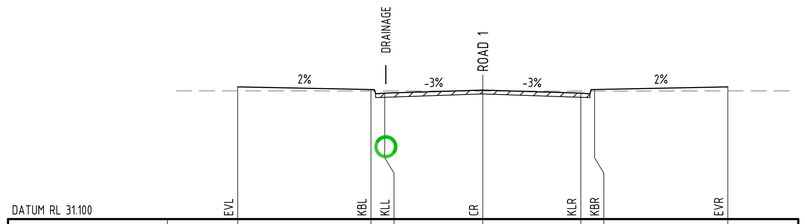
CH 180.000



DATUM RL 30.600	EVL	KBL	KLL	CR
FINISHED SURFACE	35.137	35.050	34.935	35.031
EXISTING SURFACE LEVEL	35.228	35.336	35.336	35.342
OFFSET	-8.000	-3.650	-3.200	0.000

A1 SCALE: H 1:100 V 1:100

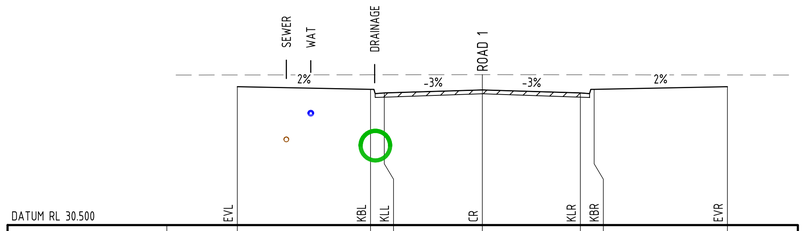
CH 160.000



DATUM RL 31.100	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.415	35.328	35.213	35.309	35.213	35.328	35.415
EXISTING SURFACE LEVEL	35.285	35.282	35.282	35.280	35.277	35.278	35.285
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

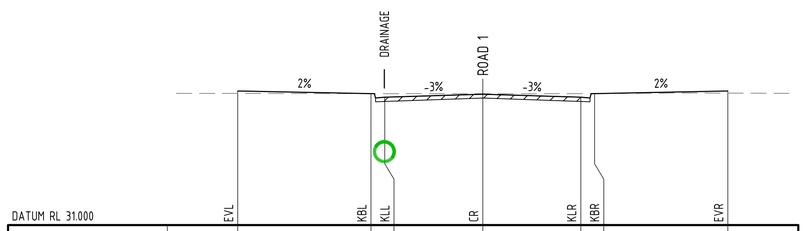
CH 206.329



DATUM RL 30.500	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.017	34.930	34.815	34.911	34.815	34.930	35.017
EXISTING SURFACE LEVEL	35.401	35.406	35.407	35.411	35.407	35.406	35.401
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 140.000



DATUM RL 31.000	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.377	35.290	35.175	35.271	35.175	35.290	35.377
EXISTING SURFACE LEVEL	35.297	35.292	35.291	35.286	35.293	35.296	35.308
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 200.000

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client	DCOH LAND PTY LTD
Project Name	NORTHCREST - STAGE 7F BERRIMAH, NT 0828
Discipline	CIVIL
Status	APPROVAL
Designed By	HD
Checked By	SW
Approved By	SW
Project No.	20172_014
Drawn By	AB
Scale at A1	AS SHOWN

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Title	ROAD 1 CROSS SECTIONS SHEET 2 OF 2
Drawing No.	DN07F-2000-DRG-1015
Revision	B

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

PLOT DATE: 4/17/2025 12:55 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1015_ROAD 1 CROSS SECTIONS SHEET 2 OF 2.DWG

ABREVIATION LEGEND

EVL - EDGE OF VERGE LEFT

EVR - EDGE OF VERGE RIGHT

KBL - KERB BACK LEFT

KBR - KERB BACK RIGHT

KLL - KERB LINE LEFT

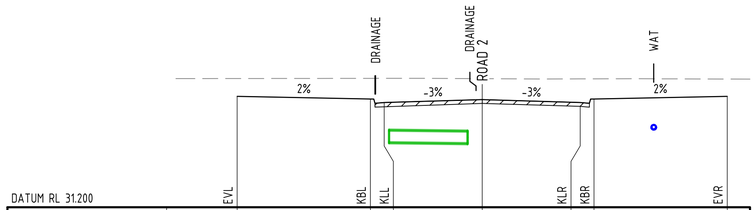
KLR - KERB LINE RIGHT

KL - KERB LINE

CR - CROWN

DI - DRAIN INVERT

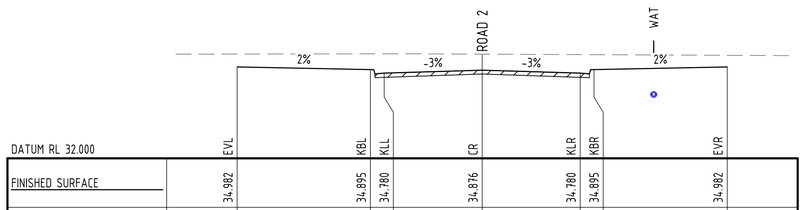
ROAD PAVEMENT. REFER TO DRG DN07F-2000-DRG-1021 FOR DETAILS



DATUM RL 31.200	EVL	KBL	KLL		KLR	KBR	EVR
FINISHED SURFACE	34.820	34.733	34.618	34.714	34.618	34.733	34.820
EXISTING SURFACE LEVEL	35.402	35.407	35.408	35.398	35.390	35.392	35.385
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

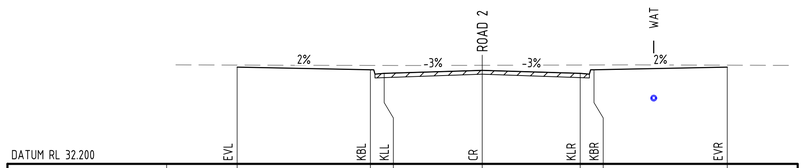
CH 52.951



DATUM RL 32.000	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	34.982	34.895	34.780	34.876	34.780	34.895	34.982
EXISTING SURFACE LEVEL	35.403	35.409	35.410	35.399	35.384	35.382	35.362
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 40.000



DATUM RL 32.200	EVL	KBL	KLL	CR	KLR	KBR	EVR
FINISHED SURFACE	35.357	35.270	35.155	35.251	35.155	35.270	35.357
EXISTING SURFACE LEVEL	35.424	35.413	35.412	35.417	35.426	35.428	35.421
OFFSET	-8.000	-3.650	-3.200	0.000	3.200	3.650	8.000

A1 SCALE: H 1:100 V 1:100

CH 19.900

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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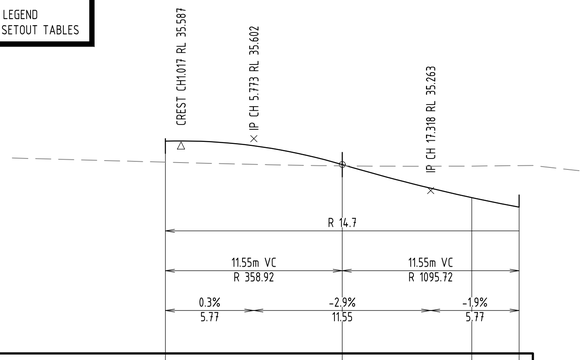
Title: ROAD 2 CROSS SECTIONS

Drawing No.: DN07F-2000-DRG-1016
Revision: B

PLOT DATE: 4/17/2025 12:55 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1016_ROAD 2 CROSS SECTIONS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTES:
1. REFER TO DRG DN07F-2000-DRG-1003 FOR LEGEND
2. REFER TO DRG DN07F-2000-DRG-1019 FOR SETOUT TABLES

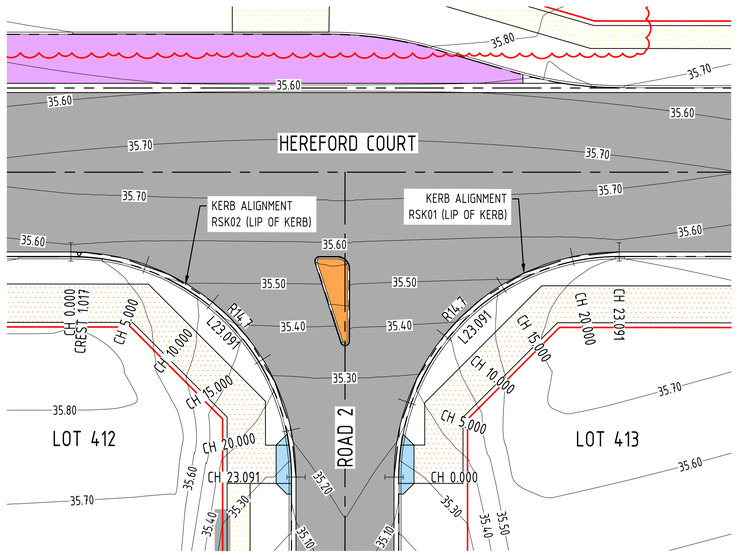


HORIZONTAL CURVE DATA — R 14.7

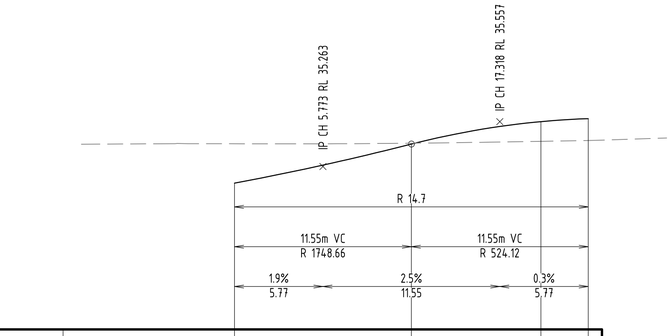
VERTICAL CURVE LENGTH (m) / VERTICAL CURVE RADIUS (m)		11.55m VC R 358.92		11.55m VC R 1095.72	
VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m)		0.3% 5.77	-2.9% 11.55	-1.9% 5.77	
DATUM RL 34.200					
DESIGN SURFACE LEVEL	35.586	35.433		35.217	35.155
EXISTING SURFACE LEVEL	35.449	35.425		35.423	35.426
CUT / FILL DEPTH	0.137	0.008		-0.206	-0.271
CONTROL LINE CHAINAGE	0.000	11.545		20.000	23.091

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK02



INTERSECTION DETAIL - ROAD 2 - HEREFORD COURT
SCALE 1:200

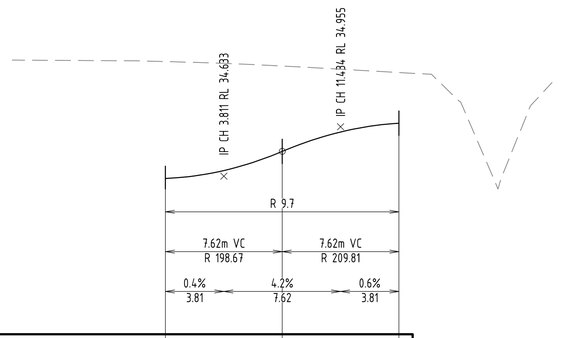


HORIZONTAL CURVE DATA — R 14.7

VERTICAL CURVE LENGTH (m) / VERTICAL CURVE RADIUS (m)		11.55m VC R 1748.66		11.55m VC R 524.12	
VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m)		1.9% 5.77	2.5% 11.55	0.3% 5.77	
DATUM RL 34.200					
DESIGN SURFACE LEVEL	35.155	35.410		35.557	35.576
EXISTING SURFACE LEVEL	35.412	35.416		35.428	35.433
CUT / FILL DEPTH	-0.257	-0.006		0.129	0.143
CONTROL LINE CHAINAGE	0.000	11.545		20.000	23.091

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK01

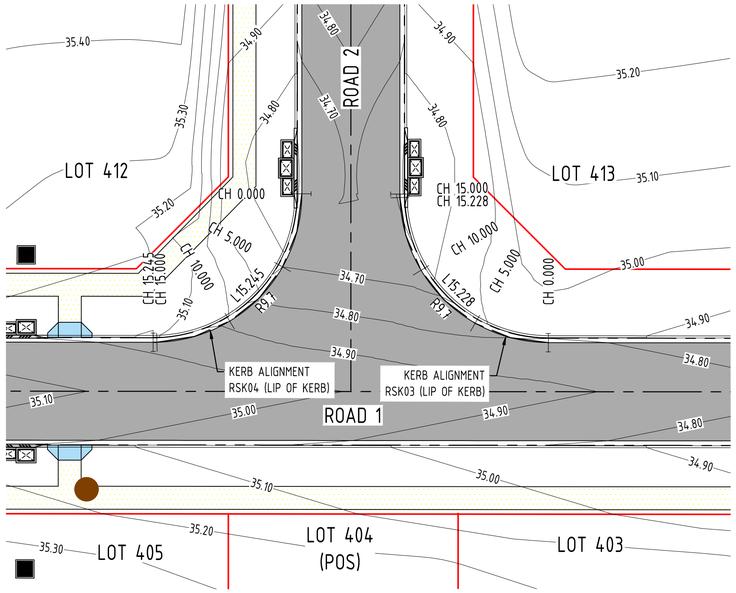


HORIZONTAL CURVE DATA — R 9.7

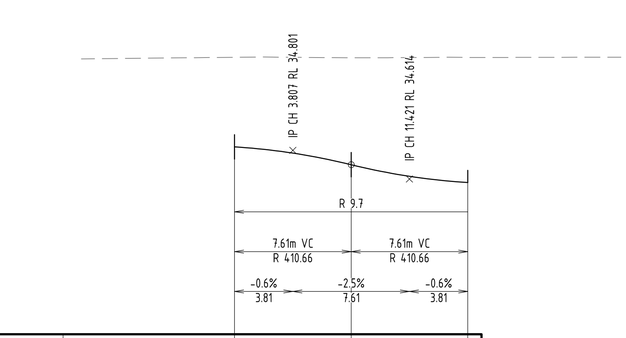
VERTICAL CURVE LENGTH (m) / VERTICAL CURVE RADIUS (m)		7.62m VC R 198.67		7.62m VC R 209.81	
VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m)		0.4% 3.81	4.2% 7.62	0.6% 3.81	
DATUM RL 33.600					
DESIGN SURFACE LEVEL	34.618	34.794		34.978	
EXISTING SURFACE LEVEL	35.381	35.352		35.309	
CUT / FILL DEPTH	-0.763	-0.558		-0.331	
CONTROL LINE CHAINAGE	0.000	7.623		15.245	

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK04



INTERSECTION DETAIL - ROAD 1 - ROAD 2
SCALE 1:200



HORIZONTAL CURVE DATA — R 9.7

VERTICAL CURVE LENGTH (m) / VERTICAL CURVE RADIUS (m)		7.61m VC R 410.66		7.61m VC R 410.66	
VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m)		-0.6% 3.81	-2.5% 7.61	-0.6% 3.81	
DATUM RL 33.600					
DESIGN SURFACE LEVEL	34.823	34.707		34.591	
EXISTING SURFACE LEVEL	35.409	35.406		35.408	
CUT / FILL DEPTH	-0.585	-0.699		-0.817	
CONTROL LINE CHAINAGE	0.000	7.614		15.228	

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK03

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:20 VERTICAL
0 0.5 1m
0 2 4 6 8 10m
SCALE 1:200 HORIZONTAL
AT ORIGINAL SIZE (A1)
0 2 4 6 8 10m
SCALE 1:200
AT ORIGINAL SIZE (A1)

DCOH NORTHCREST

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: ROAD INTERSECTION DETAILS
Drawing No.: DN07F-2000-DRG-1017
Revision: C

PLOT DATE: 12/19/2025 8:06 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1017_ROAD INTERSECTION DETAILS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTES:
1. REFER TO DRG DN07F-2000-DRG-1003 FOR LEGEND
2. REFER TO DRG DN07F-2000-DRG-1019 FOR SETOUT TABLES

HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m) — 11.54m VC
VERTICAL CURVE RADIUS (m) — R 682.22

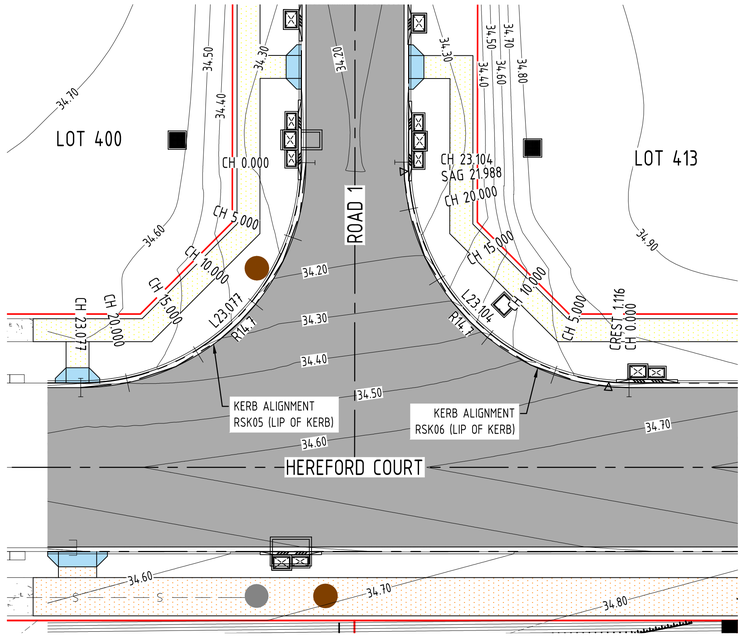
VERTICAL GEOMETRY GRADE (%) — 0.5% | 2.1% | 0.5%
VERTICAL GEOMETRY LENGTH (m) — 5.77 | 11.54 | 5.77

DATUM RL 33.200

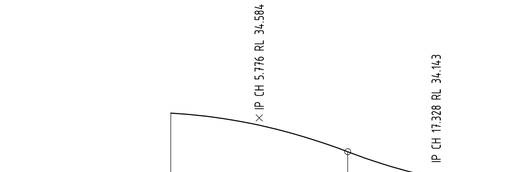
DESIGN SURFACE LEVEL	34.118	34.267		34.399	34.422
EXISTING SURFACE LEVEL	35.479	35.469		35.447	35.437
CUT / FILL DEPTH	-1.362	-1.202		-1.048	-1.014
CONTROL LINE CHAINAGE	0.000	11.539		20.000	23.077

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK05



INTERSECTION DETAIL - HEREFORD COURT - ROAD 1
SCALE 1:200



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m) — 11.55m VC
VERTICAL CURVE RADIUS (m) — R 352.29

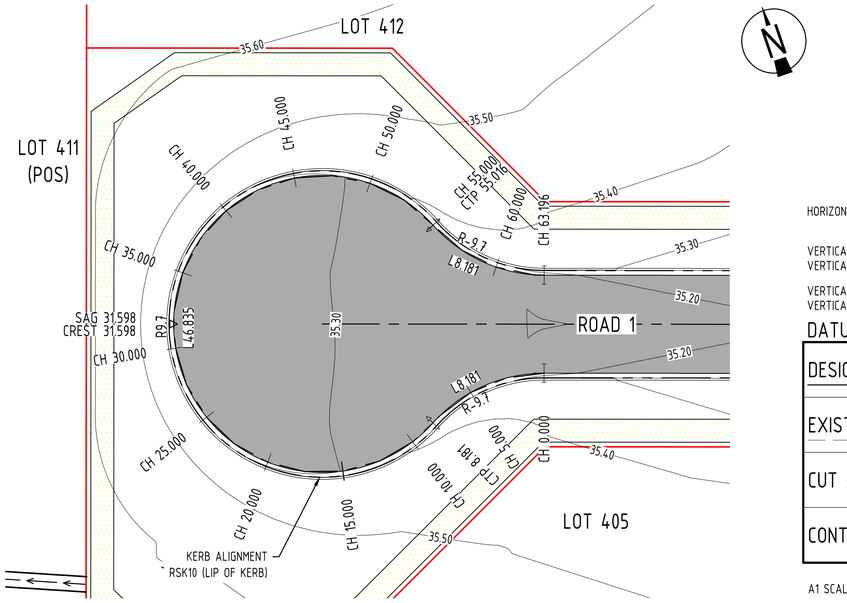
VERTICAL GEOMETRY GRADE (%) — -0.5% | -3.8% | -0.4%
VERTICAL GEOMETRY LENGTH (m) — 5.78 | 11.55 | 5.78

DATUM RL 33.200

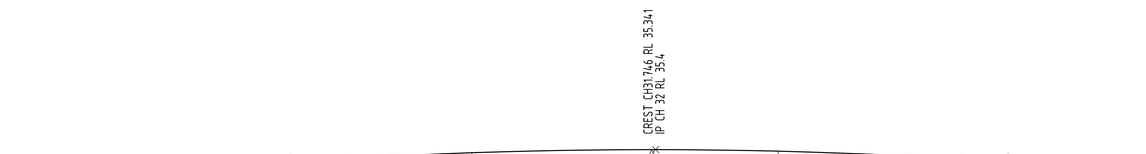
DESIGN SURFACE LEVEL	34.616	34.364		34.145	34.118
EXISTING SURFACE LEVEL	35.663	35.546		35.519	35.512
CUT / FILL DEPTH	-1.048	-1.182		-1.373	-1.395
CONTROL LINE CHAINAGE	0.000	11.552		20.000	23.104

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK06



CUL-DE-SAC DETAIL (RSK10)
SCALE 1:200



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m) — 40m VC
VERTICAL CURVE RADIUS (m) — R 3384.09

VERTICAL GEOMETRY GRADE (%) — 0.6% | -0.6%
VERTICAL GEOMETRY LENGTH (m) — 32 | 31.2

DATUM RL 34.300

DESIGN SURFACE LEVEL	35.213	35.261	35.283	35.321	35.331	35.280	35.262	35.232	35.213
EXISTING SURFACE LEVEL	35.282	35.271	35.267	35.252	35.283	35.282	35.280	35.277	35.277
CUT / FILL DEPTH	-0.069	-0.010	0.017	0.068	0.048	-0.002	-0.018	-0.044	-0.064
CONTROL LINE CHAINAGE	0.000	8.181	12.000	20.000	40.000	52.000	55.016	60.000	63.196

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK10

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:20 VERTICAL
0 0.5 1m
SCALE 1:200 HORIZONTAL
0 2 4 6 8 10m
AT ORIGINAL SIZE (A1)
SCALE 1:200
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: ROAD INTERSECTION & CUL-DE-SAC DETAILS
Drawing No.: DN07F-2000-DRG-1018
Revision: C

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

PLOT DATE: 12/19/2025 8:08 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1018_ROAD INTERSECTION & CUL-DE-SAC DETAILS.DWG

NOTES:

1. FOR ROAD INTERSECTION KERB ALIGNMENT LAYOUT PLAN AND LONGITUDINAL SECTION. REFER TO DRG DN07F-2000-DRG-1017 & DN07F-2000-DRG-1018.

RSK01 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10363.514	624059.418	35.155	17°49'11.34"			
	5.000	10365.817	624063.830	35.256	37°18'29.43"			
	10.000	10369.459	624067.220	35.372	56°47'47.53"			
IP 2	11.545	10368.013	624073.413	35.410		R = 14.700	23.091	90°00'00.00"
	15.000	10374.023	624069.201	35.486	76°17'05.63"			
	20.000	10378.987	624069.545	35.557	95°46'23.73"			
IP 3	23.091	10382.007	624068.915	35.576	107°49'11.34"			

RSK02 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10347.925	624079.870	35.586	107°49'11.34"			
	5.000	10352.336	624077.568	35.565	127°18'29.43"			
	10.000	10355.726	624073.925	35.475	146°47'47.53"			
IP 2	11.545	10361.920	624075.372	35.433		R = 14.700	23.091	90°00'00.00"
	15.000	10357.707	624069.361	35.337	166°17'05.63"			
	20.000	10358.052	624064.397	35.217	185°46'23.73"			
IP 3	23.091	10357.421	624061.377	35.155	197°49'11.34"			

RSK03 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10359.657	624015.753	34.823	287°52'17.19"			
	5.000	10355.493	624018.420	34.763	317°24'19.25"			
IP 2	7.614	10350.434	624018.727	34.707		R = 9.700	15.228	89°56'54.15"
	10.000	10353.185	624022.793	34.656	346°56'21.32"			
	15.000	10353.332	624027.735	34.592	16°28'23.38"			
IP 3	15.228	10353.400	624027.953	34.591	17°49'11.34"			

RSK04 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10347.314	624029.934	34.618	197°49'11.34"			
	5.000	10344.651	624025.767	34.700	227°21'13.40"			
IP 2	7.623	10344.343	624020.691	34.794		R = 9.700	15.245	90°03'05.85"
	10.000	10340.280	624023.455	34.881	256°53'15.47"			
	15.000	10335.337	624023.598	34.977	286°25'17.53"			
IP 3	15.245	10335.102	624023.670	34.978	287°52'17.19"			

RSK05 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10473.312	623972.381	34.118	107°52'17.19"			
	5.000	10477.721	623970.075	34.159	127°21'35.28"			
	10.000	10481.108	623966.429	34.236	146°50'53.38"			
IP 2	11.539	10487.291	623967.874	34.267		R = 14.700	23.077	89°56'54.15"
	15.000	10483.085	623961.863	34.333	166°20'11.48"			
	20.000	10483.425	623956.899	34.399	185°49'29.58"			
IP 3	23.077	10482.796	623953.892	34.422	197°49'11.34"			

RSK06 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10493.752	623987.974	34.616	197°49'11.34"			
	5.000	10491.449	623983.563	34.553	217°18'29.43"			
	10.000	10487.807	623980.173	34.420	236°47'47.53"			
IP 2	11.552	10489.249	623973.967	34.364		R = 14.700	23.104	90°03'05.85"
	15.000	10483.242	623978.192	34.250	256°17'05.63"			
	20.000	10478.278	623977.848	34.145	275°46'23.73"			
IP 3	23.104	10475.246	623978.482	34.118	287°52'17.19"			

RSK10 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10295.863	624029.598	35.213	287°52'17.19"			
IP 2	4.090	10291.722	624030.933	35.237		R = -9.700	8.181	48°19'17.86"
	5.000	10290.926	624029.866	35.242	258°20'15.12"			
CC	8.181	10287.971	624028.728	35.261	239°32'59.32"			
	10.000	10286.325	624027.958	35.272	250°17'45.59"			
	15.000	10281.399	624027.533	35.299	279°49'47.65"			
IP 3	15.987	10279.279	624023.618	35.304		R = 9.700	15.612	92°12'51.91"
	20.000	10276.903	624029.591	35.321	309°21'49.72"			
CC	23.792	10274.509	624032.501	35.332	331°45'51.23"			
	25.000	10274.005	624033.598	35.334	338°53'51.78"			
	30.000	10273.460	624038.512	35.340	8°25'53.85"			
IP 4	31.598	10269.739	624041.384	35.341		R = 9.700	15.612	92°12'51.91"
	35.000	10275.408	624043.057	35.339	37°57'55.91"			
CC	39.404	10278.800	624045.807	35.332	63°58'43.14"			
	40.000	10279.343	624046.052	35.331	67°29'57.98"			
	45.000	10284.243	624046.717	35.315	97°02'00.04"			
IP 5	47.210	10287.860	624050.230	35.306		R = 9.700	15.612	92°12'51.91"
	50.000	10288.834	624044.881	35.292	126°34'02.11"			
	55.000	10291.923	624041.020	35.262	156°06'04.17"			
CC	55.016	10291.930	624041.006	35.262	156°11'35.05"			
IP 6	59.106	10293.686	624037.025	35.238		R = -9.700	8.181	48°19'17.86"
	60.000	10295.000	624037.149	35.232	126°45'03.86"			
IP 7	63.196	10297.827	624035.689	35.213	107°52'17.19"			

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By: HD	Checked By: SW	Approved By: SW
Project No.: 20172_014	Drawn By: AB	Scale at A1: AS SHOWN

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Title: ROAD INTERSECTION & CUL-DE-SAC SETOUT TABLES

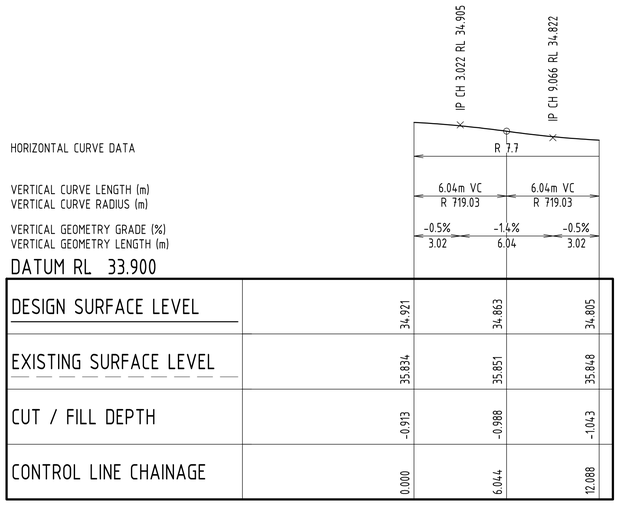
Drawing No.: DN07F-2000-DRG-1019

Revision: B

PLOT DATE: 4/17/2025 11:55 AM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1019_ROAD INTERSECTION & CUL-DE-SAC SETOUT TABLES.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
1. REFER TO DRG DN07F-2000-DRG-1003 FOR LEGEND

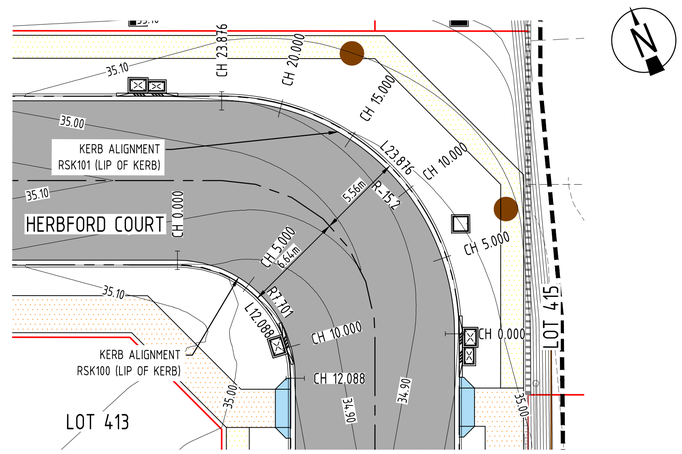


DATUM RL 33.900

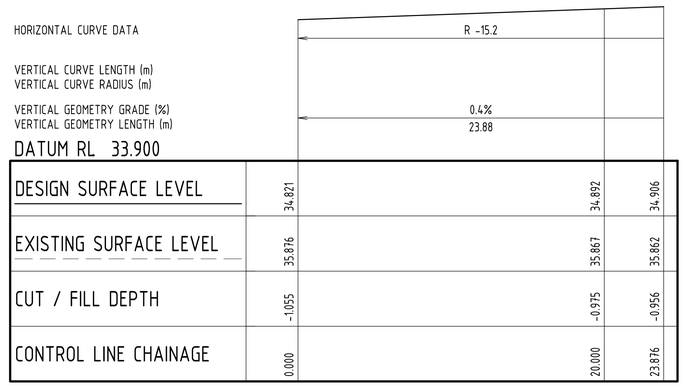
DESIGN SURFACE LEVEL	34.921	34.863	34.805
EXISTING SURFACE LEVEL	35.834	35.851	35.848
CUT / FILL DEPTH	-0.913	-0.988	-1.043
CONTROL LINE CHAINAGE	0.000	6.044	12.088

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK100



HEREFORD COURT CURVE WIDENING DETAIL
SCALE 1:200



DATUM RL 33.900

DESIGN SURFACE LEVEL	34.821		34.892	34.906
EXISTING SURFACE LEVEL	35.876		35.867	35.862
CUT / FILL DEPTH	-1.055		-0.975	-0.956
CONTROL LINE CHAINAGE	0.000		20.000	23.876

A1 SCALE: H 1:200 V 1:20

LONGITUDINAL SECTION RSK101

RSK100 HORIZONTAL ALIGNMENT

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10499.544	624031.132	34.921	107°52'53.25"			
	5.000	10503.494	624028.211	34.877	145°04'48.38"			
IP 2	6.044	10506.864	624028.770	34.863		R = 7.701	12.088	89°55'42.84"
	10.000	10504.874	624023.497	34.820	182°16'43.51"			
IP 3	12.088	10504.511	624021.447	34.805	197°48'36.09"			

RSK101 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10515.300	624021.026	34.821	17°49'11.34"			
	5.000	10516.027	624025.950	34.839	358°58'21.07"			
	10.000	10515.124	624030.845	34.857	340°07'30.81"			
IP 2	11.938	10519.952	624035.497	34.863		R = -15.200	23.876	90°00'00.01"
	15.000	10512.688	624035.186	34.874	321°16'40.54"			
	20.000	10508.981	624038.507	34.892	302°25'50.27"			
IP 3	23.876	10505.481	624040.149	34.906	287°49'11.34"			

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:20 VERTICAL
0 0.5 1m
SCALE 1:200 HORIZONTAL
0 2 4 6 8 10m
AT ORIGINAL SIZE (A1)
SCALE 1:200
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
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Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: HEREFORD COURT
CURVE WIDENING DETAILS
Drawing No.: DN07F-2000-DRG-1020
Revision: C

PLOT DATE: 12/19/2025 8:05 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1020_HEREFORD COURT CURVE WIDENING DETAILS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

CONCRETE NOTES

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND THE CONCRETE SPECIFICATION.
C2. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
C3. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON REINFORCEMENT CHAIRS AT NOT GREATER THAN 1000mm CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS GREATER THAN B1 USE ONLY PLASTIC CHAIRS.
C4. CONCRETE DIMENSIONS SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
C5. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
C6. FOR CHAMFERS, DRIP GROOVES, FILLETS ETC REFER TO ARCHITECT'S DETAILS. MAINTAIN MINIMUM COVER TO REINFORCEMENT AT THESE LOCATIONS.
C7. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
C8. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
C9. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED THOROUGHLY.
C10. CURING OF ALL CONCRETE SHALL BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. ONLY WAX BASED AND CHLORINATED RUBBER CURING COMPOUNDS WILL BE ACCEPTED. SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
C11. CONSTRUCTION SUPPORT PROPPING SHALL BE LEFT IN PLACE WHERE REQUIRED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
C12. THE ENGINEER SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE ORDERED UNTIL FINAL APPROVAL IS OBTAINED.
C13. CONDUITS, PIPES ETC, SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS.
C14. REINFORCEMENT SYMBOLS -17.N20.250.1
17 (NUMBER OF BARS IN GROUP)
N20 (BAR GRADE/TYPE AND DIAMETER)
250 (SPACING IN mm)
1 DENOTES LAYER BAR PLACED IN - 1 DENOTES BARS LAID FIRST
- 2 DENOTES BARS LAID SECOND
- 3 DENOTES BARS LAID THIRD
- 4 DENOTES BARS LAID LAST
S DENOTES GRADE 250 N HOT ROLLED DEFORMED BARS TO AS 4671.
N DENOTES GRADE 500 N BARS TO AS 4671 CLASS N
R DENOTES GRADE 250 N HOT ROLLED ROUND BARS TO AS 4671.
SL or RL DENOTES GRADE 500 L COLD DRAWN RIBBED WIRE REINFORCING MESH TO AS 4671.
W DENOTES GRADE 500 L COLD-DRAWN ROUND WIRE TO AS 4671.
N.S.O.P. DENOTES BARS NOT SHOWN ON PLAN.
THE FIGURE FOLLOWING THE MESH SYMBOL SL or RL IS THE REFERENCE NUMBER FOR MESH TO AS 4671.
C15. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
C16. SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS AND 50 PERCENT OF BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.
C17. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITION SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE AS SHOWN ON THE DRAWING.
C18. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER. (AFTER WRITTEN REQUEST).
C19. JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS U.N.O.
C20. FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm OR 250mm WHICHEVER IS THE GREATER. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF TIE WIRE.
C21. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12.300 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400mm U.N.O.
C22. PROVIDE UPWARD CAMBER TO FORMWORK OF CANTILEVERS OF L/200, WHERE L IS THE PROJECTION BEYOND COLUMN OR WALL FACE, AND TO FORMWORK OF SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.
C23. A BOND BREAKING MATERIAL SHALL BE PLACED BETWEEN CONTACTING SURFACES AT CONTRACTION JOINTS. REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH CONTRACTION JOINTS.
C24. AT PENETRATIONS IN SLABS UNLESS OTHERWISE DETAILED REINFORCEMENT SHALL NOT BE CUT BUT SHALL BE GATHERED EQUALLY TO EACH SIDE OF PENETRATION AND EXTRA REINFORCEMENT PROVIDED BETWEEN THE PENETRATIONS AS DIRECTED BY THE ENGINEER.
C25. ALL BARS IN TRIMMER BAR GROUPS SHALL BE THE SAME LENGTH. (ONE BAR ONLY IS GENERALLY SHOWN FULL LENGTH ON PLAN). SPACE BARS AT APPROXIMATELY 75 CENTRES.
C26. DO NOT BUILD BLOCKWORK ON SUSPENDED WORK UNTIL ALL SHORING HAS BEEN REMOVED AND THEN ONLY AFTER BRICKS OR BLOCKS HAVE BEEN STACKED ADJACENT TO THEIR FUTURE POSITION.
C27. CONCRETE TO BE KEPT "FREE" OF SUPPORTING BRICKWORK OR BLOCKWORK BY APPROVED SLIP JOINT. (MINIMUM 2 LAYERS OF ALCOR FLASHING 1 LAYER 4.5mm FC SHEET).
C28. CONCRETE GRADE AND COVER DETAILS. REFER TO FOOTING PLANS, SLAB ON GROUND PLANS, FORMWORK PLANS, COLUMN SCHEDULE OR WALL ELEVATION DRAWINGS.

SLAB ON GROUND NOTES

SG1. FOR DETAILS OF RL'S, DIMENSIONS AND SETOUT ETC. REFER LATEST ARCHITECT'S DRAWINGS.
ANY VARIATION TO THAT SHOWN ON ENGINEERS DRAWINGS TO BE NOTIFIED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
SG2. TYPICAL ON SLAB ON GROUND PLAN - INTERNAL SLAB EDGES TO BE TURNED DOWN ON TO FOOTINGS ALL AS PER DETAILED ON SECTIONS.
LOCAL TO PAD BASES AND FOOTINGS GREATER THAN 600mm WIDE PROVIDE NOMINAL 300mm WIDE DOWN TURN ONLY.
ALL OTHER LOCATIONS EDGE THICKENING AS NOTED ON PLAN AND SECTIONS.
DETAILS TYPICAL AT SLAB ON GROUND LOCATIONS.
SG3. JOINTS IN FLOOR SLABS TO BE AS FOLLOWS...

S.J DENOTES SAWCUT JOINT
I.T DENOTES INTERNAL THICKENING
E.T DENOTES EDGE THICKENING
D.J DENOTES DOWEL JOINT

PROVIDE NOMINAL 10mm WIDE FLEXIBLE ISOLATION JOINT TYPICAL, LOCAL TO ALL SLAB ABUTMENTS WITH CONCRETE COLUMNS, CAVITY AND BLOCK WALLS.
JOINT TO BE FULL DEPTH FILLED WITH APPROVED COMPRESSIBLE FILLER ALL SEALED TO ARCHITECTS SPECIFICATION. U.N.O.

SG4. TYPICAL SLAB ON GROUND
150 ALL SLAB ON GROUND UNLESS NOTED OTHERWISE ON PLAN TO BE 150mm THICK MINIMUM TYPICAL THROUGHOUT

CONCRETE STRENGTH f'c = 40 MPa U.N.O
SLAB CAST ON APPROVED DAMP PROOF MEMBRANE ON 20mm SAND BLINDING ALL ON PREPARED SUB BASE.
(REFER SUBGRADE PREPARATION NOTES)
SLAB REINFORCED TYPICALLY THROUGHOUT AS FOLLOWS...

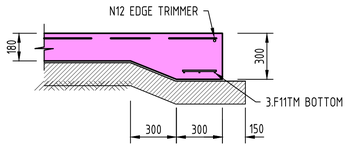
1 LAYER SL92 FABRIC TOP - MINIMUM 50mm COVER

ALL FABRIC LAPPED 2 CROSS WIRES + 50mm TYPICAL.
PROVIDE 1.N12 TRIMMER TIED TO UNDERSIDE OF FABRIC TO ALL EDGES AND SIDES OF SLABS INCLUDING EACH SIDE OF ALL JOINTS.
TRIMMERS LAPPED 450mm MINIMUM AND COGGED 300mm AT CORNERS AND ENDS.

SG5. 150 DENOTES STEP IN TOP OF SLAB

SG6. TRIMMER SCHEDULE
'W' DENOTES 4.N12 x 1200 LONG TRIMMER BARS (2 EACH CORNER) AT 45° TO CORNERS OF COLUMNS NOTED. TRIMMER BARS NOT SHOWN ON PLAN.
'X' DENOTES 4.N12 x 1200 LONG TRIMMER BARS (2 EACH FACE) AT ALL RE-ENTRANT CORNERS. EXTEND MINIMUM 600mm PAST EDGE OF CORNER (INCLUDING DISTRIBUTION REINFORCEMENT). TRIMMER BARS NOT SHOWN ON PLAN.
'Y' DENOTES 2.N12 TRIMMER BARS AT 100mm CENTRES EACH SIDE OF PENETRATION. EXTEND MINIMUM 600mm PAST EACH CORNER. TRIMMER BARS NOT SHOWN ON PLAN.
'Z' DENOTES 2.N12 x 1200 LONG TRIMMER BARS AT 100mm CENTRES TO END OF JOINT IN SLAB. TRIMMER BARS NOT SHOWN ON PLAN.

FIRST TRIMMER TO BE LOCATED TO HAVE 75mm COVER FROM SIDES OF PENETRATION OR VOID.

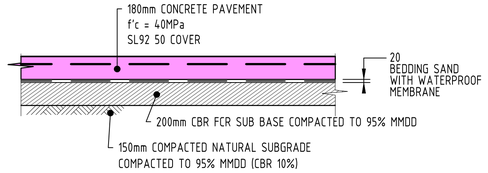


EDGE THICKENING (ET)
SCALE 1:20

PAVEMENT DETAILS

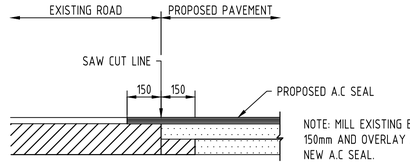
ROAD NAME/NUMBER	CHAINAGE	SUBDIVISION GUIDELINES NT ROAD CLASSIFICATION	DESIGN TRAFFIC (ESA's)	ASPHALT THICKNESS (mm)	BASE THICKNESS (mm)	SUB-BASE THICKNESS (mm)
HEREFORD COURT	0.000 - 390.458	COLLECTOR	$5x10^5$	40 AC14 - MIX TYPE 5 (A15E)	200	-
ROAD 1	0.000 - 220.819	ACCESS STREET	$5x10^3$	30 AC10 - MIX TYPE 2 (A15E)	150	-
ROAD 2	0.000 - 60.000	ACCESS STREET	$5X10^3$	30 AC10 - MIX TYPE 2 (A15E)	150	-
HEREFORD COURT - ROAD 1 INTERSECTION	-	-	$5x10^5$	40 AC14 - MIX TYPE 5 (A15E)	200	-
HEREFORD COURT - ROAD 2 INTERSECTION	-	-	$5x10^5$	40 AC14 - MIX TYPE 5 (A15E)	200	-
ROAD 1 - ROAD 2 INTERSECTION	-	-	$5X10^3$	30 AC10 - MIX TYPE 2 (A15E)	150	-
CUL-DE-SAC	-	-	$5X10^3$	30 AC10 - MIX TYPE 2 (A15E)	150	-

PAVEMENT DESIGN HAS ASSUMED A SUBGRADE CBR OF 15%. SUBGRADE CBR VALUE SHALL BE VERIFIED BY THE CONTRACTOR AND THE PAVEMENT DESIGN CONFIRMED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

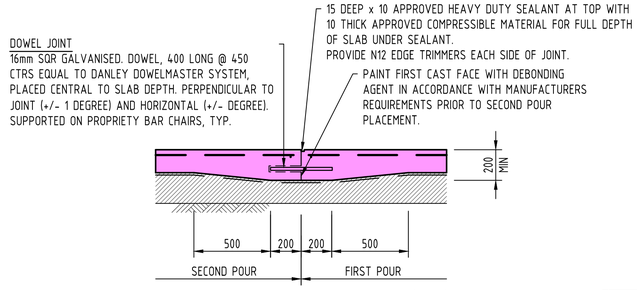


NOTE:
TRIMMERS AROUND PITS AND MANHOLES

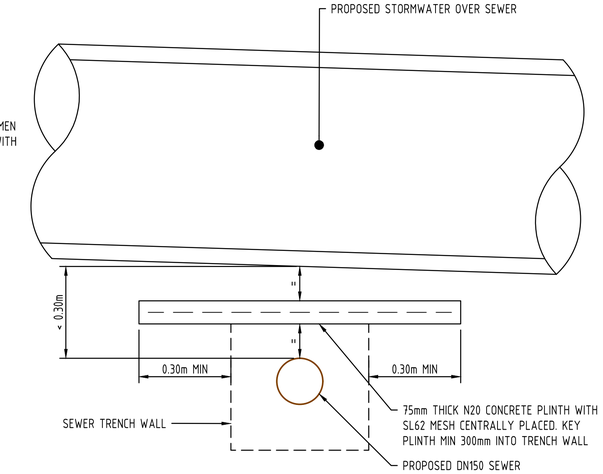
TYPICAL CONCRETE PAVEMENT SECTION
SCALE 1:20



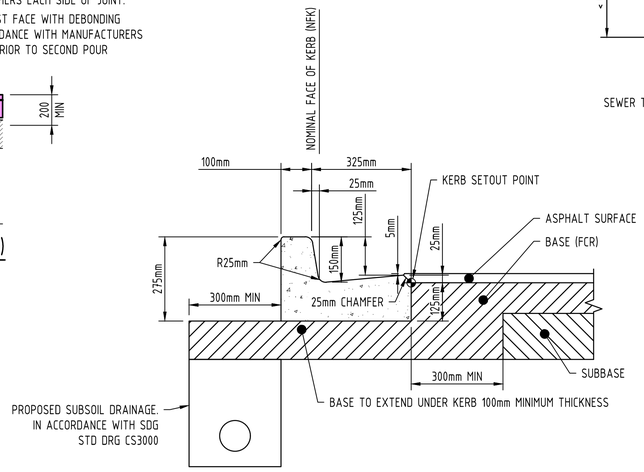
FLEXIBLE PAVEMENT JOINT DETAIL
SCALE 1:20



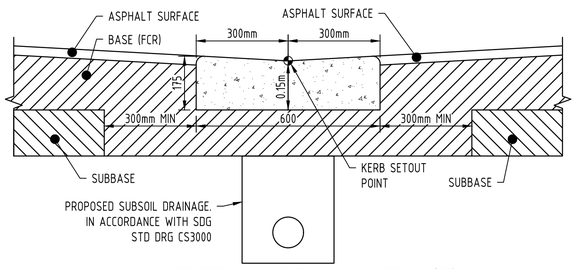
DOWELLED EXPANSION JOINT (DEJ)
SCALE 1:20



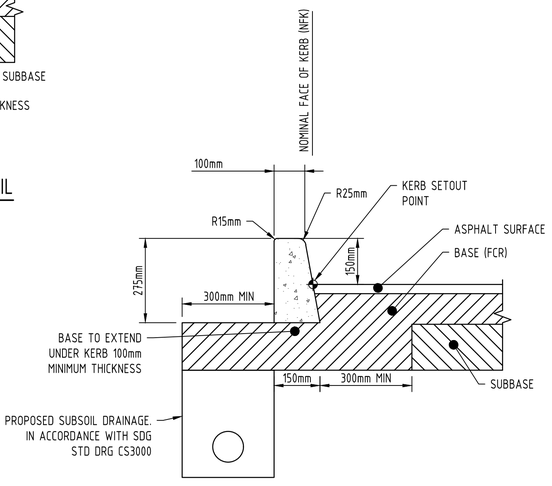
MECHANICAL PROTECTION DETAIL
SCALE 1:10



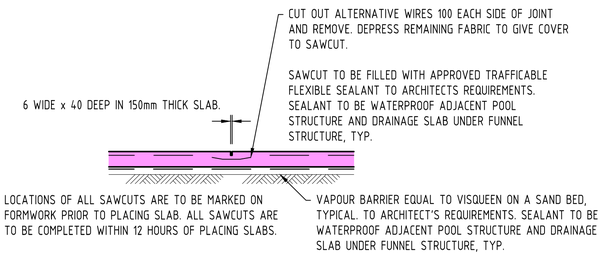
UPRIGHT KERB & GUTTER (UKG) TYPICAL DETAIL
SCALE 1:10



CONCRETE INVERT TYPICAL DETAIL (CI)
SCALE 1:10



KERB ONLY TYPICAL DETAIL (KO)
SCALE 1:10



SAWCUT JOINT (S.J)
SCALE 1:20

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
E	18.12.25	ISSUED FOR APPROVAL	AB	SW
D	14.07.25	ISSUED FOR APPROVAL	LM	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 0.1 0.2 0.3 0.4 0.5m
SCALE 1:10
AT ORIGINAL SIZE (A1)
0 0.5 1m
SCALE 1:20
AT ORIGINAL SIZE (A1)

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NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828
Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: ROADWORKS & DRAINAGE NOTES & DETAILS
Drawing No.: DN07F-2000-DRG-1021
Revision: E

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

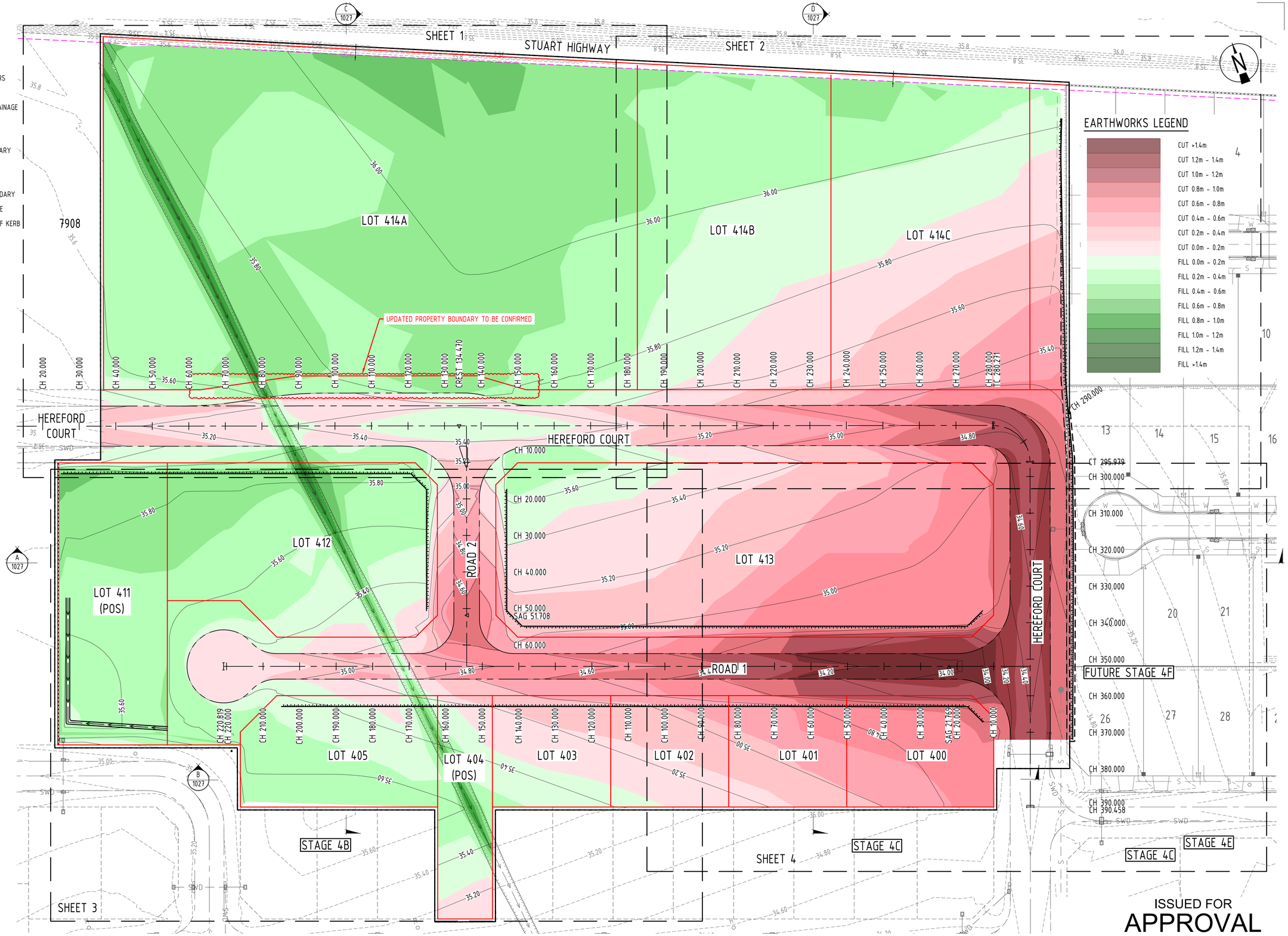
PLOT DATE: 12/19/2025 8:06 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1021_ROADWORKS & DRAINAGE NOTES & DETAILS.DWG

LEGEND

- LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS
- DESIGN SURFACE CONTOURS
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER
- EXISTING WATER
- EXISTING EASEMENT BOUNDARY
- EXISTING TOP OF BATTER
- EXISTING SWALE
- PROPOSED EASEMENT BOUNDARY
- PROPOSED ROAD CENTRELINE
- PROPOSED NOMINAL FACE OF KERB
- PROPOSED OPEN DRAIN
- PROPOSED BATTER
- CHANGE OF GRADES
- PROPOSED RETAINING WALL
- FINISHED SURFACE LEVEL (FSL 30.00)
- EXISTING SURFACE LEVEL (ESL 30.00)

EARTHWORKS NOTES

1. FOR GENERAL NOTES REFER TO DRG No. DN07F-0900-DRG-1001, WHICH IS TO BE REQUESTED AND VIEWED PRIOR TO COMMENCEMENT OF CONSTRUCTION IF NOT SUPPLIED.
2. GRASS AND TOPSOIL SHALL BE STRIPPED OVER THE EXTENT OF THE WORKS UNLESS DIRECTED OTHERWISE AND STOCKPILED FOR FUTURE USE AS NON-STRUCTURAL FILL IF REQUIRED.
3. ANY PROPOSED RETAINING WALL WORKS MUST BE WHOLLY WITHIN THE PROPERTY BOUNDARY OF THE SUBJECT SITE, INCLUDING REAR OF RETAINING WALL DRAINAGE INFRASTRUCTURE FOR RETAINING WALLS IN CUT.
4. ALL NEW WORKS TO MATCH NEATLY INTO EXISTING
5. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH APPROVED MANAGEMENT PLANS.
6. EARTHWORKS LEVELS WITHIN VERGES SHOWN ARE FINISHED EARTHWORKS SURFACE LEVELS INCLUSIVE OF 100mm TOPSOIL LAYER. EARTHWORKS LEVELS WITHIN LOTS ARE FINISHED EARTHWORKS LEVELS AND EXCLUDES TOPSOIL. EARTHWORKS LEVELS WITHIN ROAD CARRIAGEWAYS ARE ROAD BOX OUT LEVELS. REFER ROADWORKS AND DRAINAGE PLANS FOR FINISHED SURFACE LEVELS.
7. CONTRACTOR TO ENSURE SUITABLE EROSION CONTROL MEASURES ARE INSTALLED IN ACCORDANCE WITH ESC DRAWINGS. REFER ESC DRAWINGS FOR DETAILS
8. ADEQUATE SAFETY FENCING/BARRIERS TO BE APPLIED TO ALL BATTERS OR RETAINING WALLS (TEMPORARY OR PERMANENT) AS PER RELEVANT AUSTRALIAN STANDARDS AND LEGISLATION.
9. DUST CONTROL MEASURES ARE TO INCLUDE SPRAYING WATER ON UNPAVED ROADS, ACCESS TRACKS AND STOCKPILES AT A SUFFICIENT LEVEL TO SUPPRESS DUST GENERATION. ADDITIONALLY CONTRACTORS ARE TO COVER OR ENCLOSE STOCKPILES WHERE REASONABLY PRACTICAL TO RESTRICT DUST MOVEMENT. REFER TO ESC NOTES AND DETAILS DRG DN07F-2500-DRG-1502 FOR DETAILS.
10. FOR DETAILED GEOTECHNICAL INFORMATION, REFER TO GEOTECHNICAL INVESTIGATION REPORT BY GOLDER ASSOCIATES DATED JULY 2017. IT IS RECOMMENDED THAT THE GEOTECHNICAL CONSULTANT BE CONTACTED TO CONFIRM THE SOIL CONDITIONS PRIOR TO EARTHWORKS COMMENCING.
11. ALL BATTERS AT FRONT OF LOTS AND WITHIN PUBLIC OPEN SPACE AREAS TO BE 1 IN 6, UNLESS NOTED OTHERWISE. ALL BATTERS TO REAR AND SIDE BOUNDARIES WITHIN PRIVATE PROPERTIES TO BE 1 IN 2, UNLESS NOTED OTHERWISE.
12. CLEARED VEGETATION IS TO BE MULCHED AND STOCKPILED FOR RESPREADING AS DIRECTED BY THE SUPERINTENDENT.
13. FOLLOWING THE COMPLETION OF EARTHWORKS THE CONTRACTOR IS TO RESPREAD TOPSOIL AS DIRECTED BY THE SUPERINTENDENT.
14. THE CONTRACTOR IS TO LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY FOR EARTHWORKS AND PROTECT ALL VEGETATION OUTSIDE OF THE WORKS BOUNDARY.
15. MAXIMUM BATTER SLOPES TO BE 1(V) : 2(H) AT A MAXIMUM HEIGHT OF 3.0m AS PER GOLDER ASSOCIATES GEOTECHNICAL INVESTIGATION REPORT DATED JULY 2017.



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APPROVAL

Rev	Date	Description	By	Chk
E	18.12.25	ISSUED FOR APPROVAL	AB	SW
D	14.07.25	ISSUED FOR APPROVAL	LM	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:500
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:500

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Title: EARTHWORKS OVERALL LAYOUT PLAN
Drawing No.: DN07F-2000-DRG-1022
Revision: E

PLOT DATE: 12/19/2025 8:10 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1022_EARTHWORKS OVERALL LAYOUT PLAN.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
1. FOR EARTHWORKS LEGEND. REFER TO DRG DN07F-2000-DRG-1022
2. FOR EARTHWORKS SITE SECTIONS REFER TO DRG DN07F-2000-DRG-1027

STUART HIGHWAY

EXISTING 1.40m WIDE ELECTRICITY SUPPLY EASEMENT BOUNDARY TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

7908

LOT 414A

0.7% NOMINAL LOT GRADE

REDUNDANT OPEN DRAIN TO BE FILLED AS PART OF EARTHWORKS. EXISTING DRAIN TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO FILLING. EXISTING DRAIN BATTERS TO BE BENCHED PRIOR TO FILLING

UPDATED PROPERTY BOUNDARY TO BE CONFIRMED

HEREFORD COURT

HEREFORD COURT

CH 0.000 CH 10.000 CH 20.000 CH 30.000 CH 40.000 CH 50.000 CH 60.000 CH 70.000 CH 80.000 CH 90.000 CH 100.000 CH 110.000 CH 120.000 CH 130.000 CREST 134.470 CH 140.000 CH 150.000 CH 160.000 CH 170.000 CH 180.000 CH 190.000

FSL 35.80 ESL 35.80
FSL 36.00 ESL 35.60
FSL 35.40 ESL 35.35
FSL 35.52 ESL 35.31
FSL 35.68 ESL 34.63
FSL 35.70 ESL 35.12
FSL 35.67 ESL 35.02
FSL 35.79 ESL 35.41
FSL 35.91 ESL 35.44
FSL 35.78 ESL 35.47
FSL 35.34 ESL 35.34
FSL 35.41 ESL 35.33
FSL 35.50 ESL 35.33
FSL 35.74 ESL 35.44
FSL 35.73 ESL 35.43
CREST CH3.023 RL 36

REFER DRG DN07F-2000-DRG-1024 FOR CONTINUATION

REFER DRG DN07F-2000-DRG-1025 FOR CONTINUATION

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Rev	Date	Description	By	Chk
E	18.12.25	ISSUED FOR APPROVAL	AB	SW
D	14.07.25	ISSUED FOR APPROVAL	LM	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250
AT ORIGINAL SIZE (A1)

DCOH NORTHCREST

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:250

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Title: EARTHWORKS LAYOUT PLAN
LAYOUT PLAN SHEET 1 OF 4

Drawing No.: DN07F-2000-DRG-1023
Revision: E

PLOT DATE: 12/19/2025 11:52 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1023_EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 1 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
1. FOR EARTHWORKS LEGEND. REFER TO DRG DN07F-2000-DRG-1022
2. FOR EARTHWORKS SITE SECTIONS REFER TO DRG DN07F-2000-DRG-1027

REFER DRG DN07F-2000-DRG-1023 FOR CONTINUATION

FSL 36.17
ESL 35.75

FSL 36.13
ESL 35.70

EXISTING 1.40m WIDE ELECTRICITY SUPPLY EASEMENT BOUNDARY TO BE PROTECTED & MAINTAINED THROUGHOUT WORKS

FSL 36.10
ESL 35.89

FSL 36.08
ESL 35.88

ESL 35.89

ESL 35.94

ESL 35.92

ESL 35.92

ESL 35.93

FSL 35.61
ESL 35.93

FSL 35.51
ESL 35.95

ESL 35.95

FSL 35.41
ESL 35.95

ESL 35.95

FSL 35.30
ESL 35.92

ESL 35.92

FSL 35.26
ESL 35.91

ESL 35.91

FSL 35.14
ESL 35.89

ESL 35.90

ESL 35.89

FSL 35.04
ESL 35.89

ESL 35.89

FSL 35.01
ESL 35.89

FSL 35.59
ESL 35.64

FSL 35.30
ESL 35.70

FSL 35.48
ESL 35.58

FSL 35.15
ESL 35.81

FSL 35.00
ESL 35.81

LOT 414B

LOT 414C

FUTURE STAGE 4F

HEREFORD COURT

0.7% NOMINAL LOT GRADE

CH 180.000
CH 190.000
CH 200.000
CH 210.000
CH 220.000
CH 230.000
CH 240.000
CH 250.000
CH 260.000
CH 270.000
CH 280.000
TC 280.271
CH 290.000
CT 295.979
CH 300.000

36.00
35.80
35.60
35.40
35.20
35.00
34.80

1 2 3 4 5 7 8 9 10 13 14 15 16

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APPROVAL

REFER DRG DN07F-2000-DRG-1026 FOR CONTINUATION

Rev	Date	Description	By	Chk
E	18.12.25	ISSUED FOR APPROVAL	AB	SW
D	14.07.25	ISSUED FOR APPROVAL	LM	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 5 10 15m
SCALE 1:250
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:250
Status: APPROVAL

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Title: EARTHWORKS LAYOUT PLAN
LAYOUT PLAN SHEET 2 OF 4

Drawing No.: DN07F-2000-DRG-1024
Revision: E

PLOT DATE: 12/19/2025 8:08 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1024_EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 2 OF 4.DWG

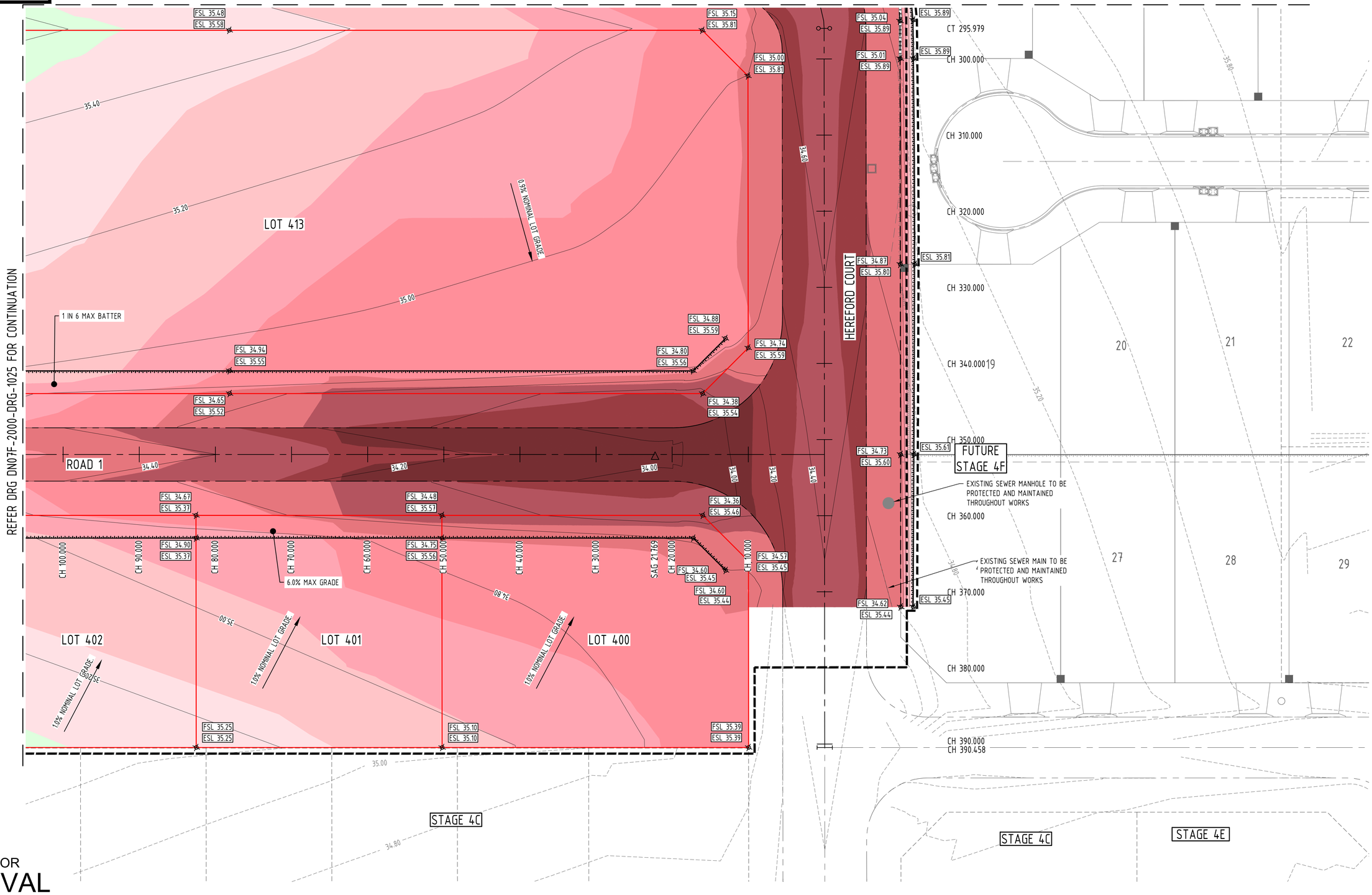
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
1. FOR EARTHWORKS LEGEND. REFER TO DRG DN07F-2000-DRG-1022
2. FOR EARTHWORKS SITE SECTIONS REFER TO DRG DN07F-2000-DRG-1027

NOTE:
* BOUNDARY TIE IN LEVELS MATCH STAGE 4C DESIGN SURFACE. EXISTING LEVEL SHOWN INDICATES STAGE 4C LEVEL

REFER DRG DN07F-2000-DRG-1024 FOR CONTINUATION

REFER DRG DN07F-2000-DRG-1025 FOR CONTINUATION



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APPROVAL

Rev	Date	Description	By	Chk
E	18.12.25	ISSUED FOR APPROVAL	AB	SW
D	14.07.25	ISSUED FOR APPROVAL	LM	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250
AT ORIGINAL SIZE (A1)

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Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By	Checked By	Approved By
HD	SW	SW
Project No.	Drawn By	Scale at A1
20172_014	AB	1:250

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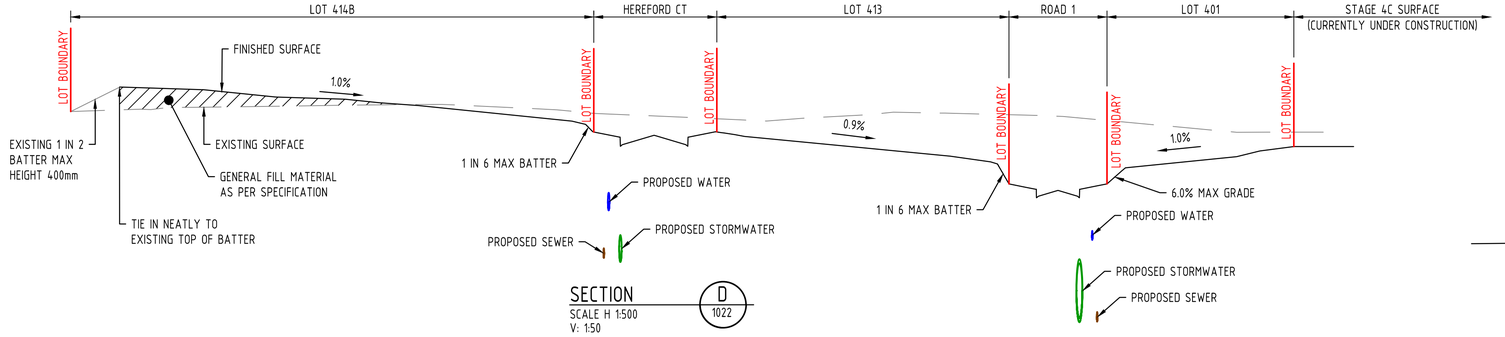
Title: EARTHWORKS LAYOUT PLAN
LAYOUT PLAN SHEET 4 OF 4

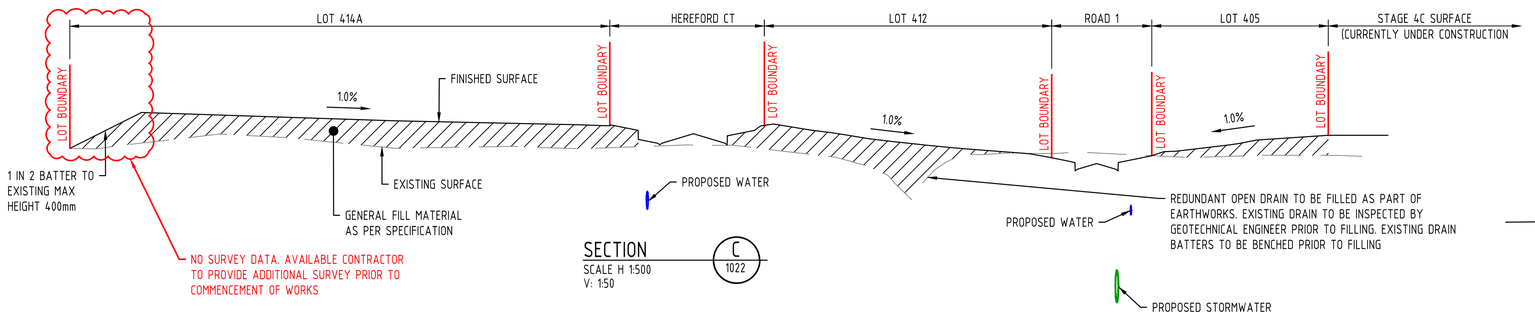
Drawing No.: DN07F-2000-DRG-1026
Revision: E

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1026_EARTHWORKS LAYOUT PLAN LAYOUT PLAN SHEET 4 OF 4.DWG

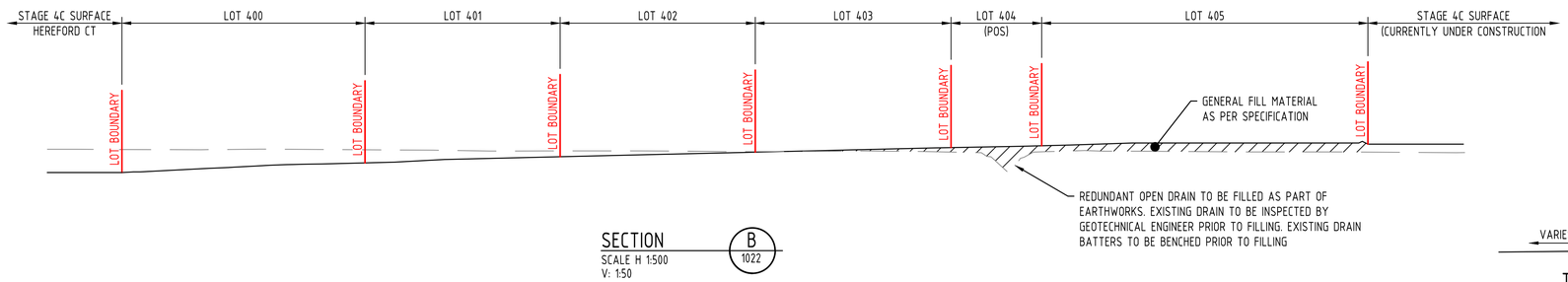
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



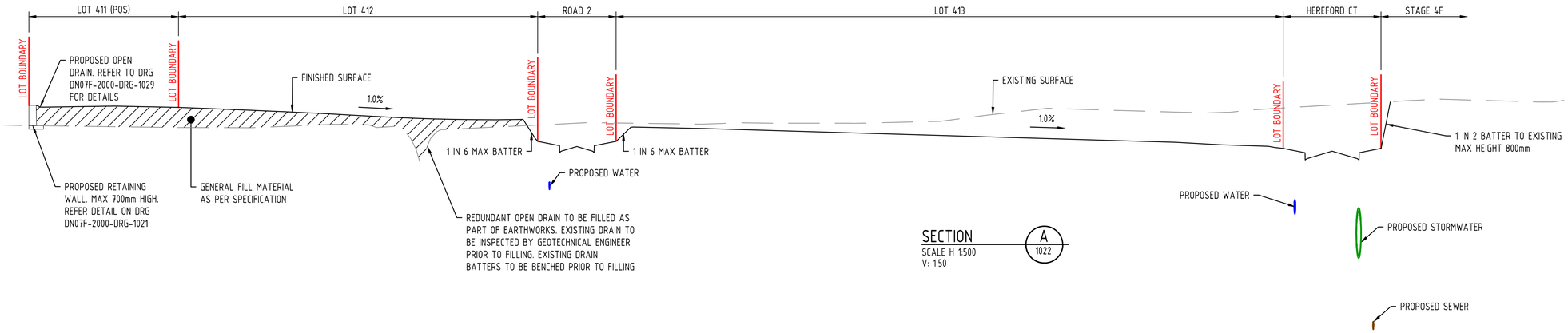
SECTION D
SCALE H 1:500
V: 1:50
1022



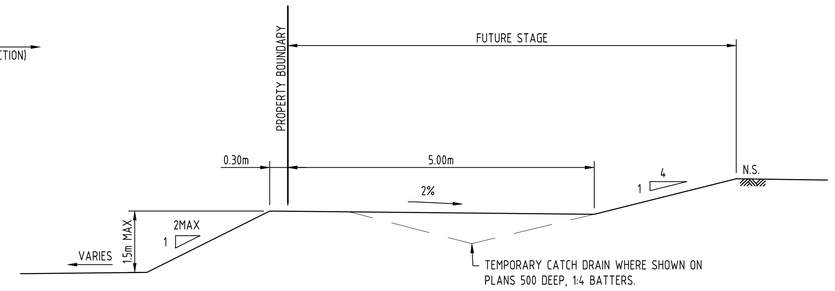
SECTION C
SCALE H 1:500
V: 1:50
1022



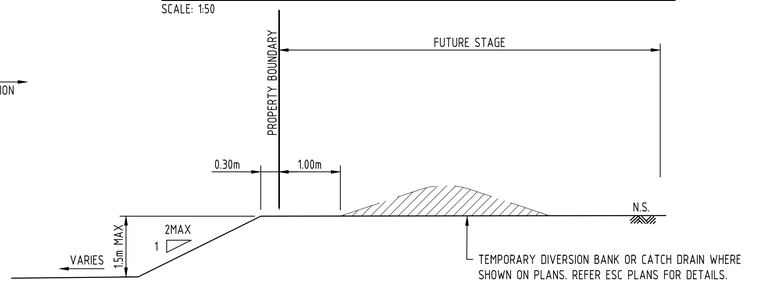
SECTION B
SCALE H 1:500
V: 1:50
1022



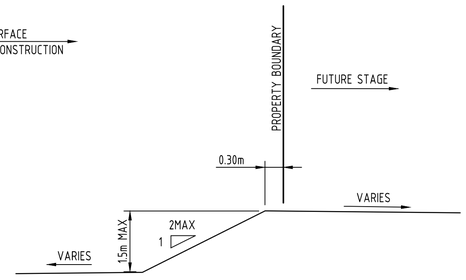
SECTION A
SCALE H 1:500
V: 1:50
1022



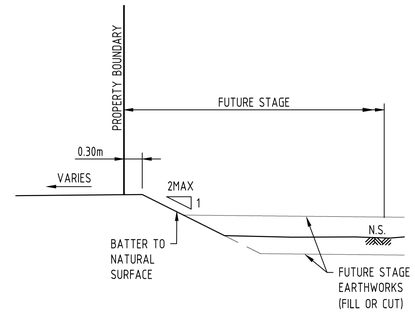
TYPICAL CUT BATTER INTERFACE WITH FUTURE STAGE- TYPE 1
SCALE: 1:50



TYPICAL CUT BATTER INTERFACE WITH FUTURE STAGE- TYPE 2
SCALE: 1:50



TYPICAL BATTER REAR/SIDE BOUNDARY
SCALE: 1:50



TYPICAL FILL BATTER INTERFACE WITH FUTURE STAGE
SCALE: 1:50

0 2.5 5 7.5m
SCALE 1:125
AT ORIGINAL SIZE (A1)

0 1 2 3m
SCALE 1:50
AT ORIGINAL SIZE (A1)

SCALE 1:50 VERTICAL
0 1 2 3m
SCALE 1:500 HORIZONTAL
0 10 20 30m
AT ORIGINAL SIZE (A1)

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By: HD	Checked By: SW	Approved By: SW
Project No.: 20172_014	Drawn By: AB	Scale at A1: AS SHOWN

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Title: EARTHWORKS SITE SECTIONS
Drawing No.: DN07F-2000-DRG-1027
Revision: D

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-2000-DRG-1027_EARTHWORKS SITE SECTIONS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- LOT BOUNDARY
- LIMIT OF WORKS
- PROPOSED KERB
- PROPOSED 1.5m FOOTPATH
- PROPOSED 2.5m FOOTPATH
- PROPOSED CONCRETE MEDIAN. REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED KERB RAMP
- INDICATIVE DRIVEWAY LOCATION
- PROPOSED WATER FIRE HYDRANT
- PROPOSED STORMWATER SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED SEWER STRUCTURE

LINEMARKING LEGEND

(DIMENSIONS IN MILLIMETRES)
(WHITE PAINT U.N.O)

- HL — HOLD LINE
  L = 600mm
  G = 600mm
  W = 450mm
- UL — UNBROKEN LINE
  W = 100mm
- DBL — UNBROKEN LINE
  W = 100mm
  G = 100mm
- BL — BROKEN LANE LINE
  L = 1000mm
  G = 9000mm
  W = 100mm
- CL — CONTINUITY LINE
  L = 1000mm
  G = 3000mm
  W = 150mm
- SYL — SINGLE YELLOW LINE
  W = 120mm
  COLOUR = GOLDEN YELLOW. REFER NOTE 4.3
- OL — UNBROKEN LINE
  W = 150mm
- PROPOSED CHEVRON. REFER TO NTG STD DRG CS3402 FOR DETAILS

SIGN LEGEND

STREET NAME
G5-1
FOR REFERENCE REFER NOTE 2.4

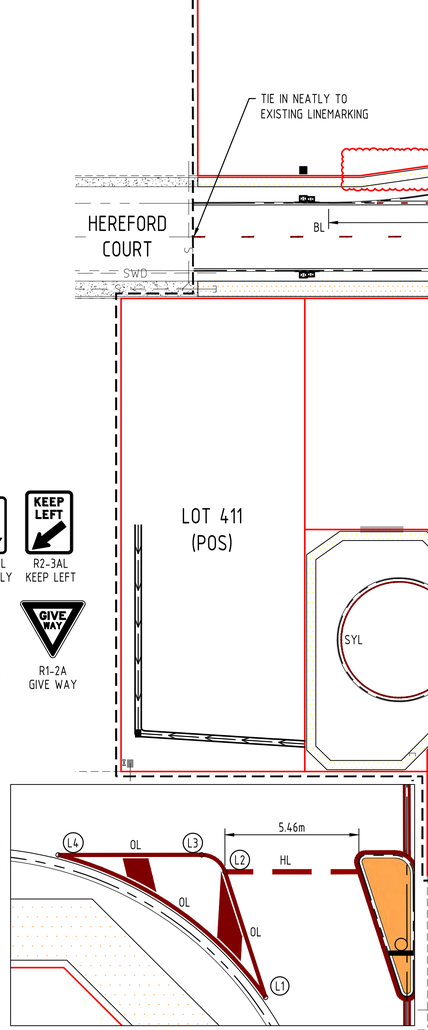
R5-20LR BUS ZONE RIGHT
R5-20L BUS ZONE LEFT
R5-14AL LEFT ONLY
R2-3AL KEEP LEFT
R1-2A GIVE WAY

STANDARD SIGNS AND LINE MARKING NOTES

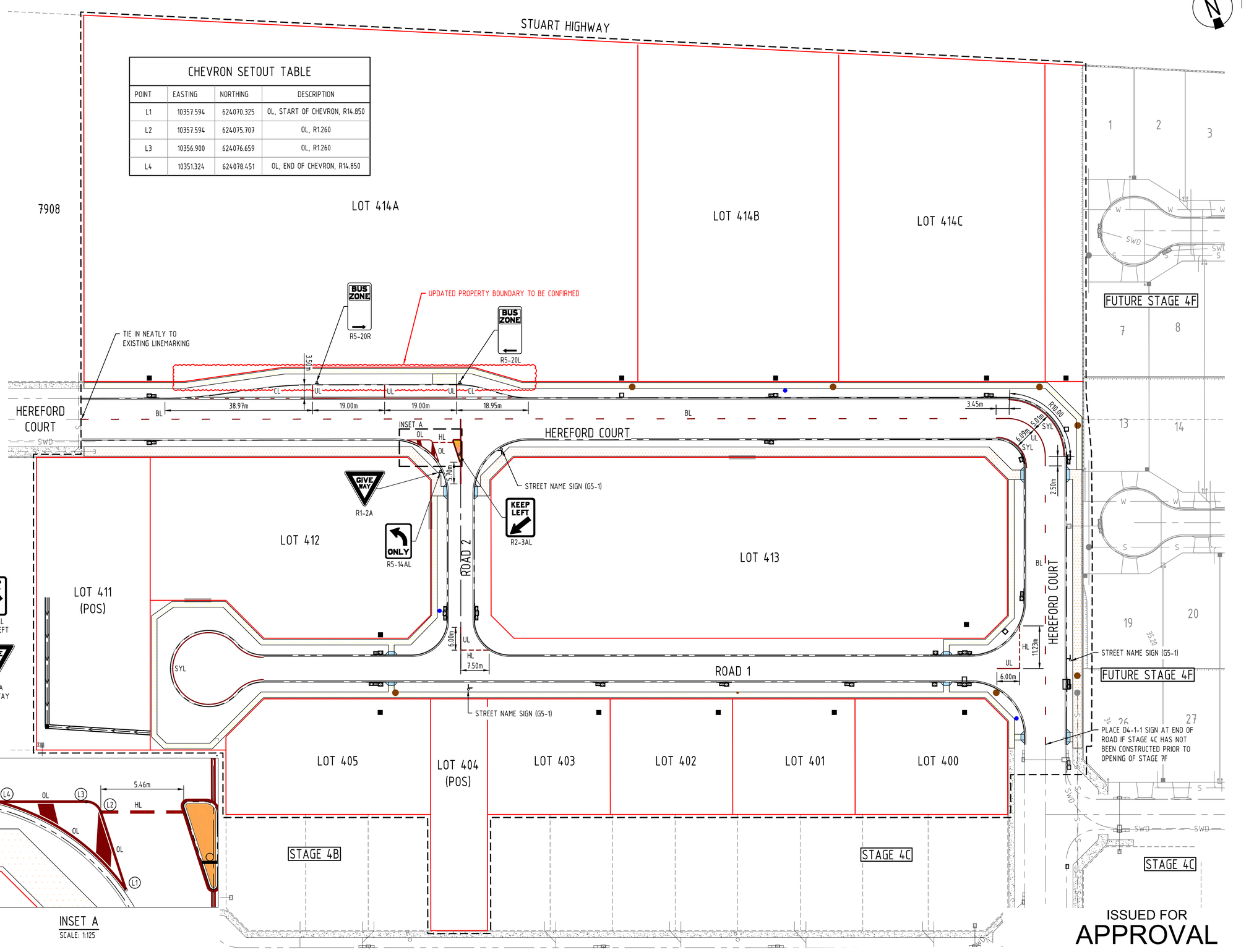
1. GENERAL
   - 1.1. ALL SIGNS AND PAVEMENT MARKING IS TO BE IN ACCORDANCE WITH THE AS 1742, AUSTROADS GUIDE TO TRAFFIC MANAGEMENT PART 10 TRANSPORT CONTROL - TYPE OF DEVICES AND NTG STD DRGS. AS PER NTG CS 1500 - CS 1557 & SDG STD DRG SS1010.
   - 1.2. ALL DIMENSIONS ARE IN METERS U.N.O.
   - 1.3. REFER TO AS 1742.3-2002 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' (MUTCD) FOR APPLICATION OF LINETYPES.
   - 1.4. IF INDICATED ON THE DRAWINGS RRPM'S ARE TO BE INSTALLED IN ACCORDANCE WITH MUTCD.
2. SIGNS
   - 2.1. ALL SIGNS TO BE REFLECTORISED CLASS 1 TO AS1906.1-2007 UNLESS NOTED OTHERWISE.
   - 2.2. SIGNS ARE TO BE INSTALLED WITH THE FOLLOWING CLEARANCES TO EDGE OF SIGN: LOCATION CLEARANCE NO KERB 600 BEHIND GUIDE POSTS BARRIER KERB 300 FROM FACE MOUNTABLE KERB 500 FROM FACE OF KERB
   - 2.3. PARKING CONTROL SIGNS TO BE MOUNTED TO FACE APPROACHING TRAFFIC AT 45° TO KERB OR CARRIAGEWAY EDGE. ALL OTHER SIGNS TO BE TURNED AWAY BY 5° FROM THE NORMAL TO APPROACHING HEADLIGHT.
   - 2.4. G5-1 SIGN AS PER SDG STD DRG SS1010
3. SIGN SUPPORTS
   - 3.1. SLEEVED SIGNS SUPPORTS ARE TO BE PROVIDED IN ALL AREAS WHERE THEY ARE IN A PAVED SURFACE.
4. LINEMARKING
   - 4.1. REDUNDANT LINEMARKING IS TO BE GROUND OFF USING ABRASIVE METHODS.
   - 4.2. THERMOPLASTIC LINEMARKING TO BE USED FOR ALL CONCRETE SURFACES.
   - 4.3. WHERE YELLOW IS USED, THE COLOUR SHALL BE GOLDEN YELLOW, COLOR No. Y14 (AS 2700-2011).
   - 4.4. RETROREFLECTIVE PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH NTG STD DRG CS-3401 - CS-3402 & CS3407
   - 4.5. CHEVRONS TO BE IN ACCORDANCE WITH NTG STD DRG CS-3401 & CS-3402

CHEVRON SETOUT TABLE

POINT	EASTING	NORTHING	DESCRIPTION
L1	10357.594	624070.325	OL, START OF CHEVRON, R14.850
L2	10357.594	624075.707	OL, R1.260
L3	10356.900	624076.659	OL, R1.260
L4	10351.324	624078.451	OL, END OF CHEVRON, R14.850



INSET A
SCALE: 1:125



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:500
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: SIGNAGE & LINEMARKING LAYOUT PLAN
Drawing No.: DN07F-2000-DRG-1028
Revision: C

PLOT DATE: 12/19/2025 8:08 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1028_SIGNAGE & LINEMARKING LAYOUT PLAN.DWG

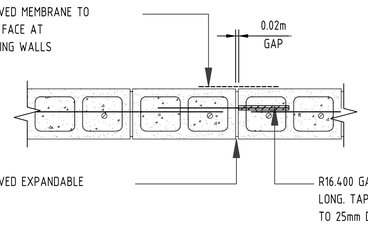
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

FOOTING NOTES:

1. FOR GENERAL AND CONSTRUCTION NOTES REFER DRG No. DN07F-0900-DRG-1001.
2. FOR DETAILS OF R.L.'s, DIMENSIONS AND SET OUT. REFER RETAINING WALL LONGITUDINAL SECTION. ANY VARIATION TO THAT SHOWN ON ENGINEERS DRAWINGS TO BE NOTIFIED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
3. PLASTIC BAR CHAIRS TO BE USED IN ALL EXTERNAL SLABS.
4. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND THE CONCRETE SPECIFICATION.
5. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
7. ALL LOOSE MATERIALS AND WATER TO BE CLEANED OUT OF THE FOUNDATION. FORM WORK TO BE USED WHERE THE SIDES OF THE FOUNDATION ARE NOT STABLE.
8. A 50mm MINIMUM BLINDING LAYER SHOULD BE APPLIED TO THE BASE OF ALL FOUNDATIONS IMMEDIATELY AFTER VERIFICATION OF THE BEARING CAPACITY BY THE GEOTECHNICAL ENGINEER. WHERE THE FOUNDING MATERIAL IS DEEPER THAN REQUIRED FOR THE FOOTING, THE EXCAVATION IS TO BE BACKFILLED WITH A WEAK MIX CONCRETE (N10) TO THE UNDERSIDE OF THE FOOTING.
9. CLEAR CONCRETE COVER TO REINFORCEMENT:
   TOP INTERNAL - 50mm BOTTOM INTERNAL - 50mm
   TOP EXTERNAL - 50mm BOTTOM EXTERNAL - 50mm
10. MINIMUM REINFORCEMENT LAP LENGTHS:
    N12 - 450mm N20 - 800mm N28 - 1200mm
    N16 - 700mm N24 - 1000mm N32 - 1300mm
11. REINFORCEMENT NOTATION
    7.N12.400.2
    7 NUMBER OF BARS IN GROUP
    N12 BAR GRADE/TYPE AND DIAMETER
    400 BAR SPACING IN mm

NOTES:

1. BLOCKS TO BE SPLIT FACE. FINAL COLOUR TBC BY ADG.
2. CONCRETE STRENGTH f'c
   FOOTINGS = 32 MPa (55 COVER TYP, U.N.O.)
   CORE FILLING = 20 MPa (55 COVER TYP, U.N.O.)
3. BLOCK STRENGTH f'uc = 15 MPa
4. 100 kPa MIN. ALLOWABLE BEARING CAPACITY, TYPICAL.
5. CONSTRUCTION JOINTS TO BE PROVIDED AT 6000 CRS IN BLOCKWORK.
6. ALL WALLS AND PIERS TO BE STRETCHER BOND CONSTRUCTION
7. CONTRACTOR TO ALLOW FOR BEARING CAPACITY TEST AT 1 PER 40m TO CONFIRM MINIMUM BEARING CAPACITY ACHIEVED PRIOR TO CONSTRUCTION OF FOOTING.

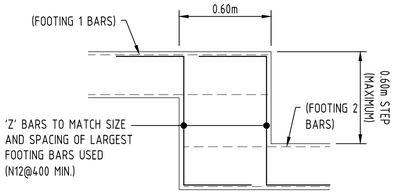


APPLY SEALANT AS SPECIFIED TO EACH FACE OF BLOCK WALL.
FOR JOINTS IN RETAINING WALL, COVER EARTH FACE OF JOINT WITH FIBREGLASS MEMBRANE & TWO COATS OF MULSEAL. APPLY EVERY 6.0m.

RECOMMENDED EVERY 6m U.N.O

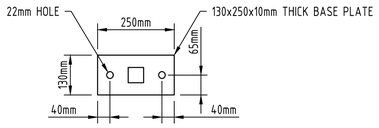
BLOCKWORK CONTROL JOINT - BCJ.

SCALE 1 : 20



TYPICAL RW FOOTING STEP DETAIL

ELEVATION
SCALE 1:20



BASE PLATE DETAIL

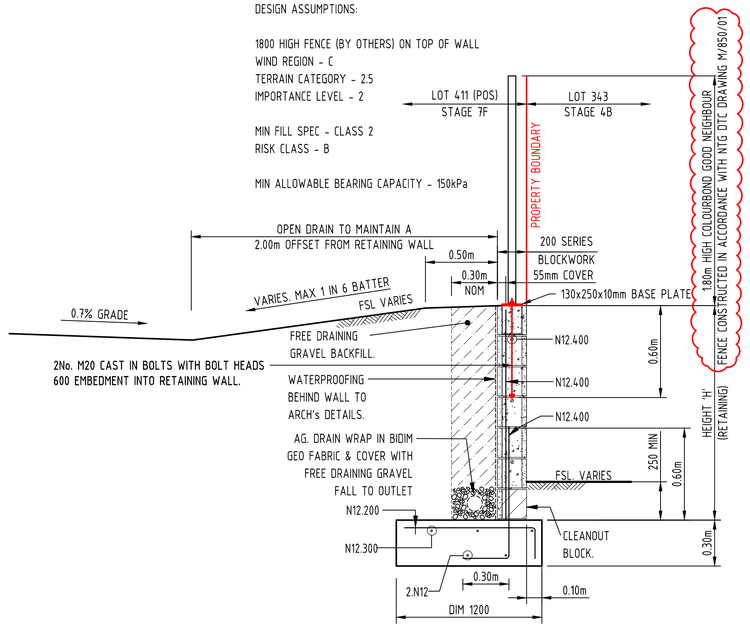
SCALE 1:10

DESIGN ASSUMPTIONS:

1800 HIGH FENCE (BY OTHERS) ON TOP OF WALL
WIND REGION - C
TERRAIN CATEGORY - 2.5
IMPORTANCE LEVEL - 2

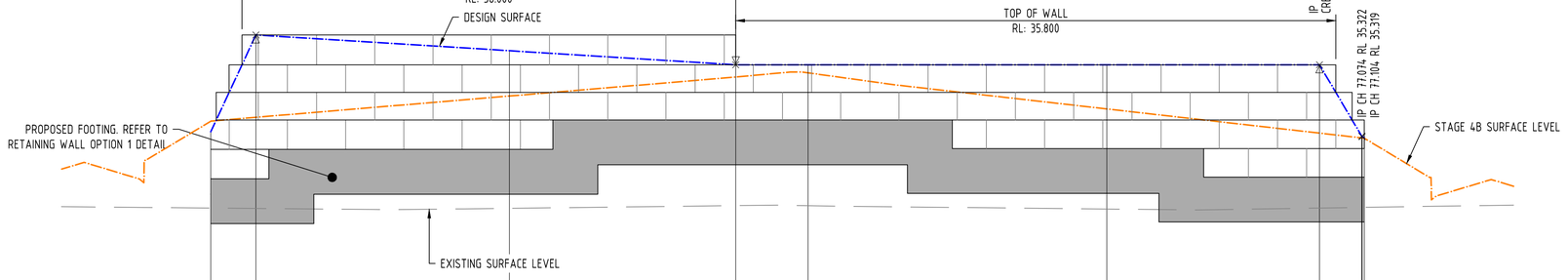
MIN FILL SPEC - CLASS 2
RISK CLASS - B

MIN ALLOWABLE BEARING CAPACITY - 150kPa



RETAINING WALL OPTION 1

SCALE 1:20



VERTICAL GEOMETRY GRADE (%)		21.4%		-0.6%			0%			-16.9%	-5.2%	-10.3%	
VERTICAL GEOMETRY LENGTH (m)		3.02		32.14			39.08			2.83	0.03	0.14	
DATUM RL 33.900													
DESIGN SURFACE LEVEL	35.352	36.000	35.894	35.800	35.800	35.800	35.800	35.322	35.319	35.312			
STAGE 4B SURFACE LEVEL		35.449	35.591	35.718	35.746	35.505	35.343	35.311	35.311	35.309			
CUT / FILL DEPTH		0.551	0.303	0.082	0.054	0.295	0.457	0.011	0.008	0.003			
CONTROL LINE CHAINAGE	0.000	3.023	20.000	35.158	40.000	60.000	74.240	77.074	77.104	77.240			

A1 SCALE: H 1:200 V 1:20

RETAINING WALL LONGITUDINAL SECTION

ISSUED FOR
CONSTRUCTION

Rev	Date	Description	By	Chk
E	03.06.25	ISSUED FOR CONSTRUCTION	CB	EA
D	15.05.25	ISSUED FOR APPROVAL	CB	EA
C	17.04.25	ISSUED FOR APPROVAL	AB	EA
B	20.02.25	90% ISSUE	CB	EA
A	29.01.25	90% ISSUE	AB	EA

SCALE 1:20 VERTICAL
0 0.5 1m
0 2 4 6 8 10m
SCALE 1:200 HORIZONTAL
AT ORIGINAL SIZE (A1)
0 0.5 1m
SCALE 1:20
AT ORIGINAL SIZE (A1)

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Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By: HD	Checked By: SW	Approved By: EA
Project No.: 20172_014	Drawn By: AB	Scale at A1: AS SHOWN

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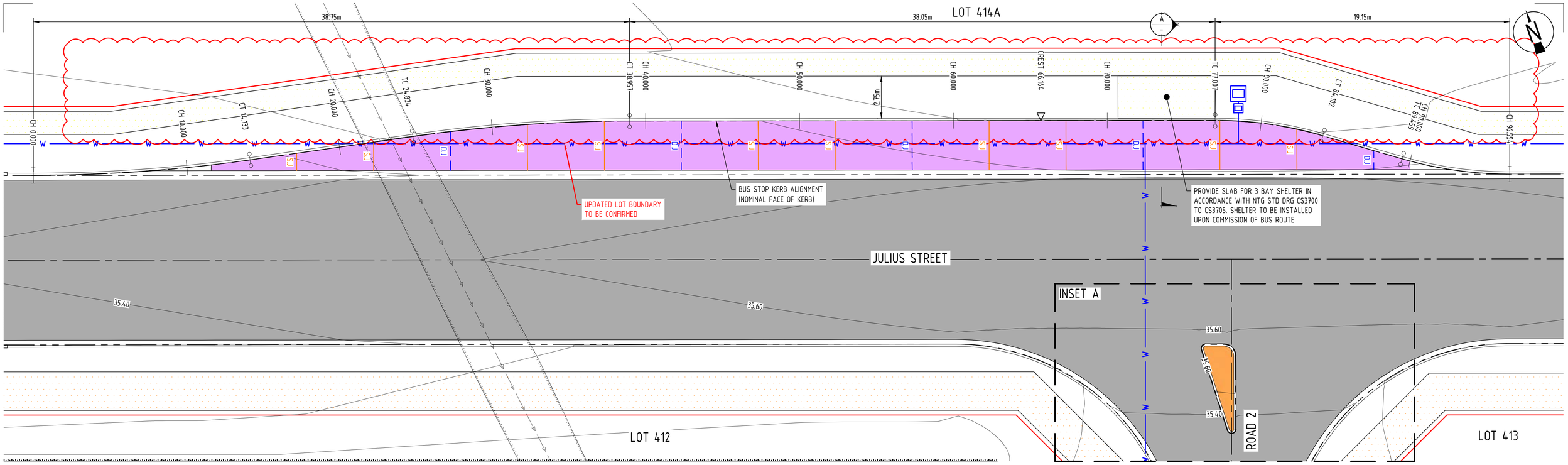
Title: RETAINING WALL NOTES & DETAILS
Drawing No.: DN07F-2000-DRG-1029
Revision: E

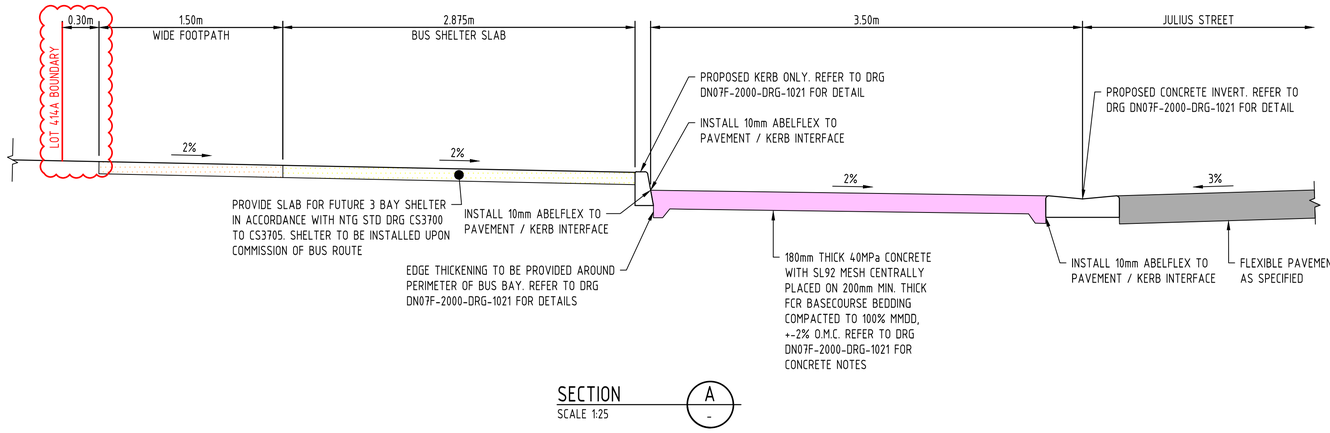
PLOT DATE: 6/3/2025 10:44 AM FILENAME: \\ADGCE.LOCAL\PROJECTS\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1029_RETAINING WALL NOTES & DETAILS.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



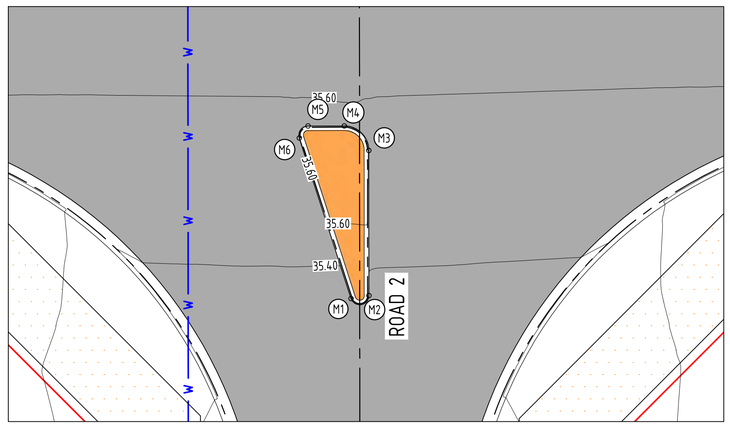
BUS STOP DETAIL LAYOUT PLAN

SCALE 1:125



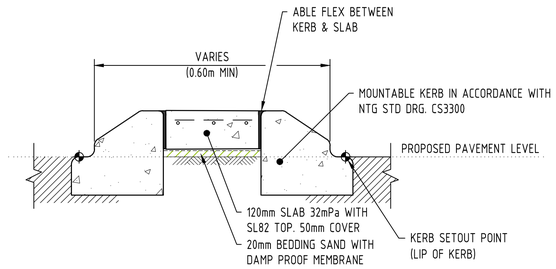
SECTION A

SCALE 1:25



INSET A

SCALE 1:100



TYPICAL CONCRETE MEDIAN DETAIL

SCALE 1:10

MEDIAN KERB SETOUT TABLE				
POINT	EASTING	NORTHING	DESIGN RL (m)	DESCRIPTION
M1	10362.880	624068.834	35.510	TC, R0.300
M2	10363.466	624068.746	35.520	TC, R0.300
M3	10364.915	624073.256	35.690	TC, R0.800
M4	10364.399	624074.263	35.720	TC, R0.800
M5	10363.272	624074.625	35.720	TC, R0.300
M6	10362.880	624074.339	35.700	TC, R0.300

NOTES

1. FOR ROADWORKS AND DRAINAGE LEGEND AND NOTES REFER TO DRG No. DN07F-2000-DRG-1003
2. FOR CONCRETE NOTES AND DETAILS REFER TO DRG No. DN07F-2000-DRG-1021
3. FOR BUS STOP LINEMARKING. REFER TO DRG No. DN07F-2000-DRG-1028 FOR DETAILS
4. FOR BUS STOP LONGITUDINAL SECTION. REFER TO DRG No. DN07F-2000-DRG-1031

0 0.5 1 1.5m
SCALE 1:25
AT ORIGINAL SIZE (A1)

0 0.1 0.2 0.3 0.4 0.5m
SCALE 1:10
AT ORIGINAL SIZE (A1)

0 2.5 5 7.5m
SCALE 1:125
AT ORIGINAL SIZE (A1)

0 1 2 3 4 5m
SCALE 1:100
AT ORIGINAL SIZE (A1)

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	18.12.25	ISSUED FOR APPROVAL	AB	SW
A	17.04.25	ISSUED FOR APPROVAL	AB	SW

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NORTHCREST

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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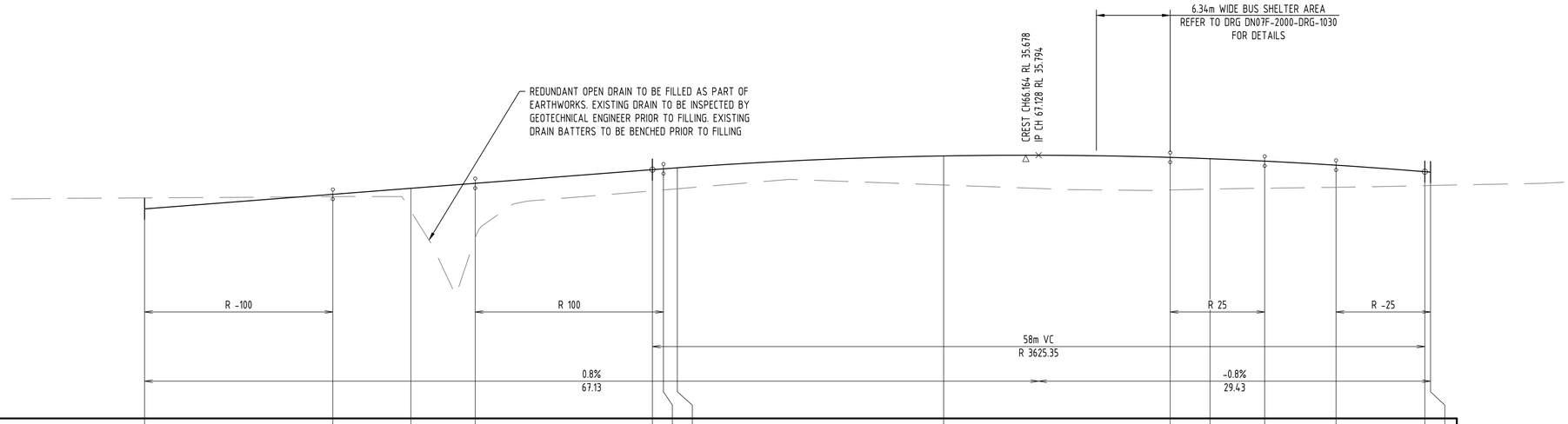
Title: ROADWORKS BUS STOP & MEDIAN LAYOUT PLAN
Drawing No.: DN07F-2000-DRG-1030
Revision: B

PLOT DATE: 12/19/2025 8:08 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1030_ROADWORKS BUS STOP & MEDIAN LAYOUT PLAN.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTES

1. FOR ROADWORKS BUS STOP ALIGNMENT AND SECTION DETAIL. REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS



DESIGN SURFACE LEVEL	35.275	35.384	35.429	35.467	35.569	35.576	35.583	35.673	35.662	35.651	35.633	35.603	35.554	35.550
EXISTING SURFACE LEVEL	35.357	35.366	35.257	35.056	35.410	35.417	35.425	35.454	35.416	35.423	35.430	35.437	35.449	35.450
CUT / FILL DEPTH	-0.082	0.018	0.173	0.411	0.160	0.159	0.158	0.219	0.245	0.228	0.203	0.166	0.105	0.100
CONTROL LINE CHAINAGE	0.000	14.133	20.000	24.824	38.128	38.957	40.000	60.000	77.007	80.000	84.102	89.459	96.128	96.554

A1 SCALE: H 1:200 V 1:20

BUS STOP KERB ALIGN LONGITUDINAL SECTION

ALIGN KERB BUS TOP HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	10294.121	624108.404	35.275	107°49'11.34"			
	5.000	10298.918	624106.994	35.313	104°57'18.10"			
IP 2	7.066	10300.860	624106.238	35.329		R = -100.000	14.133	8°05'50.97"
	10.000	10303.779	624105.825	35.352	102°05'24.86"			
CT	14.133	10307.836	624105.043	35.384	99°43'20.36"			
	15.000	10308.691	624104.897	35.391	99°43'20.36"			
	20.000	10313.619	624104.052	35.429	99°43'20.36"			
TC	24.824	10318.374	624103.238	35.467	99°43'20.36"			
	25.000	10318.547	624103.208	35.468	99°49'23.05"			
	30.000	10323.451	624102.232	35.507	102°41'16.29"			
IP 3	31.891	10325.351	624102.042	35.521		R = 100.000	14.133	8°05'50.97"
	35.000	10328.299	624101.012	35.545	105°33'09.53"			
CT	38.957	10332.089	624099.876	35.576	107°49'11.34"			
	40.000	10333.082	624099.557	35.583	107°49'11.34"			
	45.000	10337.842	624098.027	35.616	107°49'11.34"			
	50.000	10342.603	624096.497	35.642	107°49'11.34"			
	55.000	10347.363	624094.967	35.661	107°49'11.34"			
	60.000	10352.123	624093.436	35.673	107°49'11.34"			
	65.000	10356.883	624091.906	35.678	107°49'11.34"			
	70.000	10361.643	624090.376	35.676	107°49'11.34"			
	75.000	10366.403	624088.846	35.667	107°49'11.34"			
TC	77.007	10368.314	624088.232	35.662	107°49'11.34"			
	80.000	10371.102	624087.148	35.651	114°40'42.50"			
IP 4	80.555	10371.714	624087.139	35.649		R = 25.000	7.095	16°15'36.74"
CT	84.102	10374.672	624085.138	35.633	124°04'48.07"			
	85.000	10375.416	624084.634	35.629	124°04'48.07"			
TC	89.459	10379.109	624082.136	35.603	124°04'48.07"			
	90.000	10379.560	624081.838	35.599	122°50'27.33"			
IP 5	93.007	10382.067	624080.134	35.578		R = -25.000	7.095	16°15'36.74"
	95.000	10384.004	624079.563	35.563	111°22'54.37"			
IP 6	96.554	10385.468	624079.042	35.550	107°49'11.34"			

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
A	17.04.25	ISSUED FOR APPROVAL	AB	SW

SCALE 1:20 VERTICAL
0 0.5 1m
SCALE 1:200 HORIZONTAL
0 2 4 6 8 10m
AT ORIGINAL SIZE (A1)

DCOH

NORTHCREST

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: ROADWORKS BUS STOP LONGITUDINAL SECTION

Drawing No.: DN07F-2000-DRG-1031
Revision: A

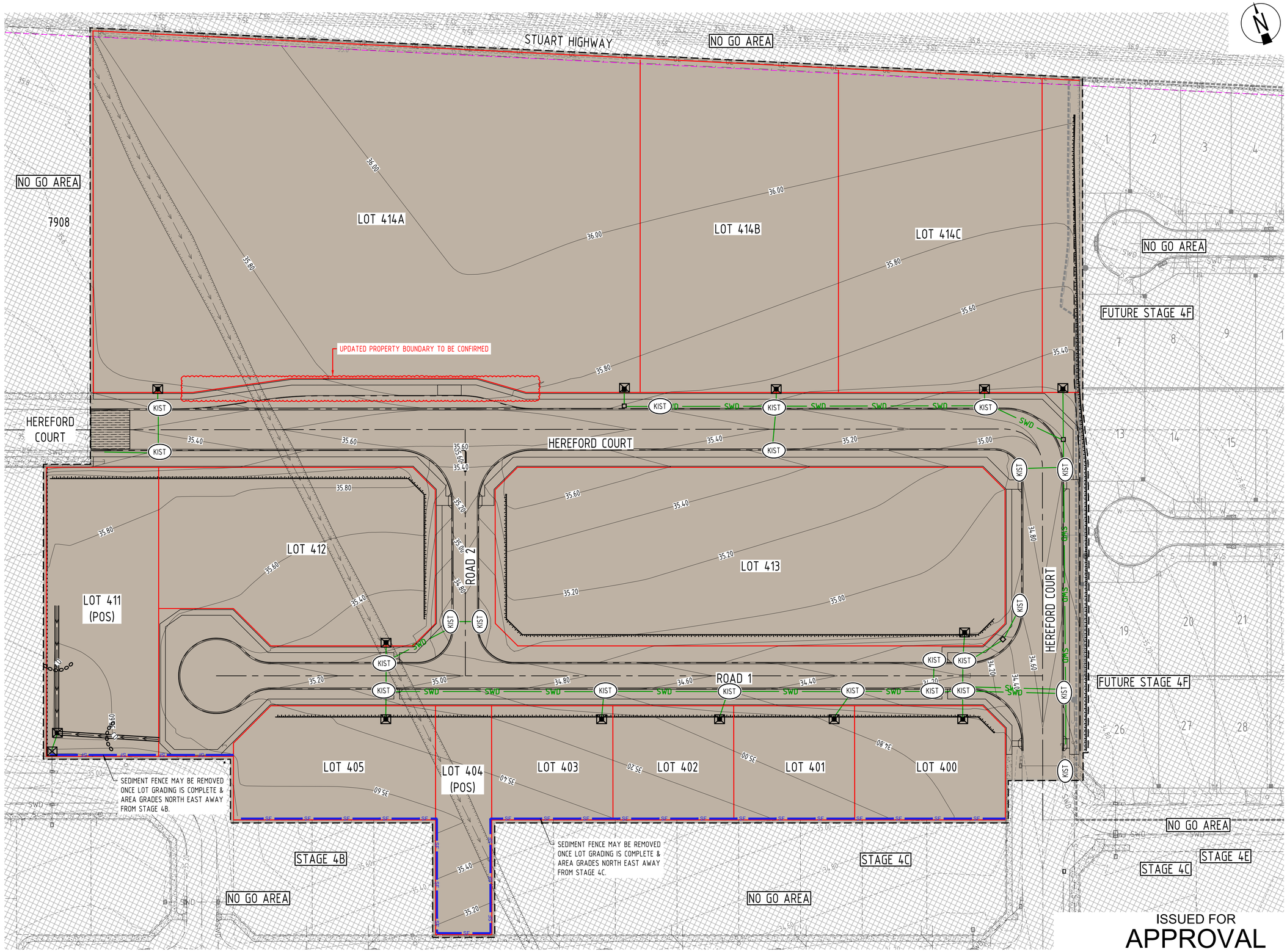
PLOT DATE: 4/17/2025 12:05 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2000-DRG-1031_ROADWORKS BUS STOP LONGITUDINAL SECTION.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS
- DESIGN SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- EXISTING STORMWATER DRAINAGE
- EXISTING TOP OF BATTER
- EXISTING SWALE
- PROPOSED EASEMENT BOUNDARY
- PROPOSED STORWATER DRAINAGE
- PROPOSED OPEN DRAIN
- PROPOSED MULCH BUND
- SEDIMENT FENCE
- PROPOSED KERB
- PROPOSED BATTER
- PROPOSED RETAINING WALL
- DISTURBED AREA
- NO GO AREA
- CONSTRUCTION ENTRY/EXIT SHAKEDOWN AREA
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT
- PROPOSED FABRIC DROP INLET PROTECTION
- KIST — KERB INLET SEDIMENT TRAP
- ROCK WEIR
- RD — ROCK CHECK DAM

EROSION AND SEDIMENT CONTROL NOTE:
FOR SEDIMENT & EROSION CONTROL NOTES & DETAILS REFER TO DRG No. DN07F-2500-DRG-1502



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:500
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client	DCOH LAND PTY LTD
Project Name	NORTHCREST - STAGE 7F BERRIMAH, NT 0828
Discipline	CIVIL
Status	APPROVAL
Designed By	HD
Checked By	SW
Approved By	SW
Project No.	20172_014
Drawn By	AB
Scale at A1	1:500

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Title: EROSION & SEDIMENT CONTROL CONSTRUCTION PHASE

Drawing No.: DN07F-2500-DRG-1500 | Revision: D

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-2500-DRG-1500_EROSION & SEDIMENT CONSTRUCTION PHASE.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

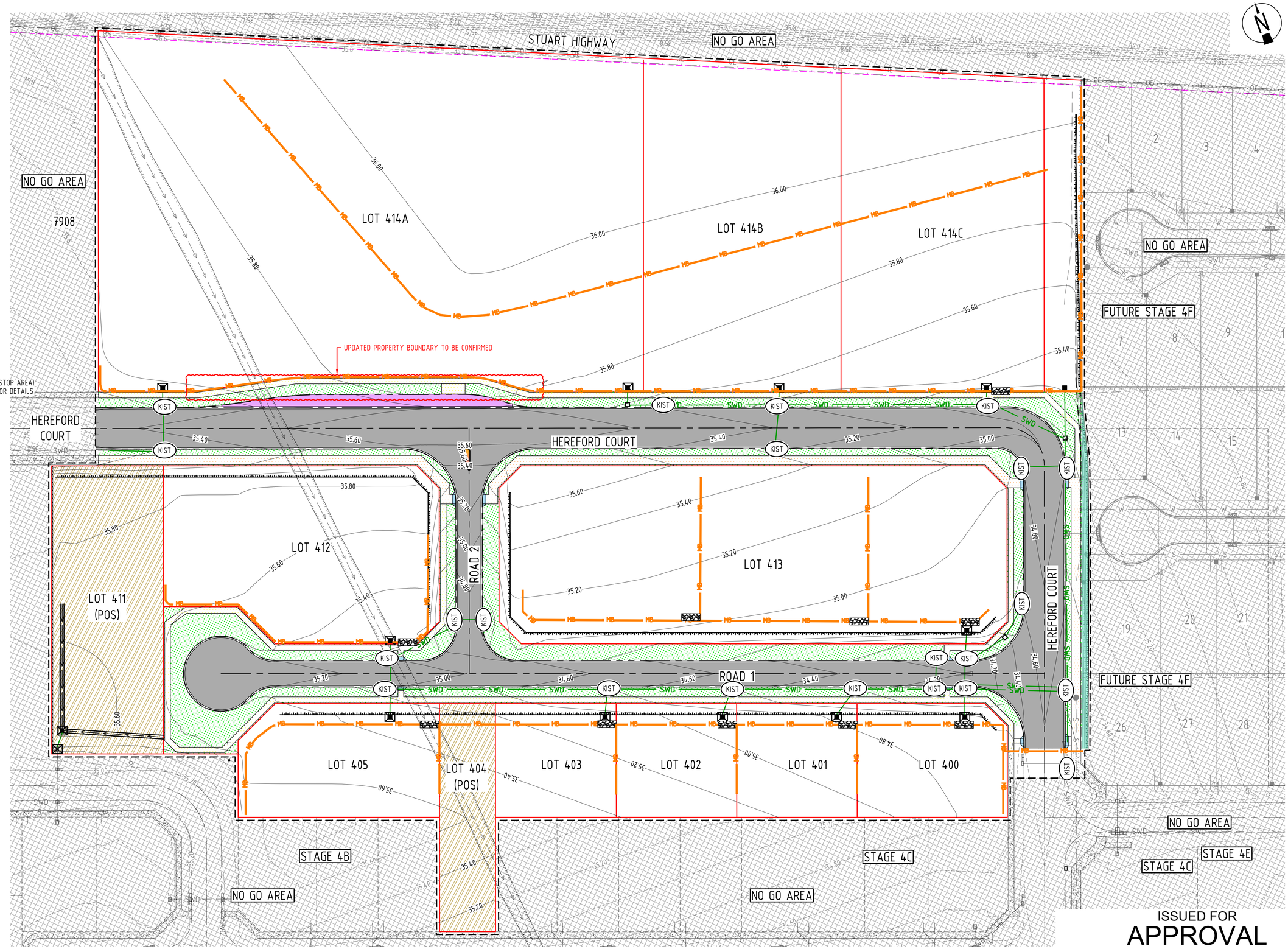
- LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS
- DESIGN SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- EXISTING STORMWATER DRAINAGE
- EXISTING TOP OF BATTER
- EXISTING SWALE
- PROPOSED EASEMENT BOUNDARY
- PROPOSED STORWATER DRAINAGE
- PROPOSED OPEN DRAIN
- PROPOSED MULCH BUND
- PROPOSED KERB
- PROPOSED BATTER
- PROPOSED RETAINING WALL
- GRASS STABILIZATION
- NO GO AREA
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED CONCRETE PAVEMENT. (BUS STOP AREA) REFER TO DRG DN07F-2000-DRG-1030 FOR DETAILS
- PROPOSED ROAD
- PROPOSED HYDROMULCH
- PROPOSED 1.5m FOOTPATH
- PROPOSED 2.5m FOOTPATH
- STABILISE IN ACCORDANCE WITH LANDSCAPE PLANS
- PROPOSED KERB RAMP
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT
- PROPOSED FABRIC DROP INLET PROTECTION
- KIST — KERB INLET SEDIMENT TRAP
- ROCK WEIR

EROSION AND SEDIMENT CONTROL NOTE:

FOR SEDIMENT & EROSION CONTROL NOTES & DETAILS REFER TO DRG No. DN07F-2500-DRG-1502

NOTES:

1. FINAL SURFACE STABILISATION MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED AREA HAVE BEEN FULLY STABILISED OR RE-VEGETATED AND 70% MINIMUM VEGETATION COVER HAS BEEN ACHIEVED.
2. GRASS STABILISED VERGE TO CONSIST OF SPRAY GRASSING.
3. MULCH BUND INTERCHANGEABLE WITH SEDIMENT FENCE NIOTE.



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 10 20 30m
SCALE 1500
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client	DCOH LAND PTY LTD
Project Name	NORTHCREST - STAGE 7F BERRIMAH, NT 0828
Discipline	CIVIL
Status	APPROVAL
Designed By	HD
Checked By	SW
Approved By	SW
Project No.	20172_014
Drawn By	AB
Scale at A1	1:500

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Title: EROSION & SEDIMENT CONTROL FINAL STABILIZATION PHASE

Drawing No.: DN07F-2500-DRG-1501
Revision: D

PLOT DATE: 12/19/2025 8:09 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CIVIL\DWG\DN07F-2500-DRG-1501_EROSION & SEDIMENT CONTROL FINAL STABILIZATION PHASE.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

STRUCTURE NAME	1-01	2-01	1-EX01
STRUCTURE DESCRIPTION	SIDE ENTRY PIT 2 BAY REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY REFER NTG STD DRG GS3114	PIPE CONNECTION
PIPE SIZE (mm) PIPE CLASS & TYPE	750 RCP 2	750 RCP 2	
PIPE GRADE (%) PIPE SLOPE (1 in X)	1.00% 100.0	1.00% 100.0	
FULL PIPE VELOCITY (m/s) NORMAL DEPTH VELOCITY (m/s)	1.16 2.47	1.25 2.51	
PIPE FLOW (cumecs) CAPACITY FLOW (cumecs) DATUM RL	0.515 1.114 18.0	0.552 1.114	
HGL IN PIPE & WSE IN STRUCTURE	34.147	34.195 34.236	34.024 33.957 33.878
DESIGN (& EXISTING) SURFACE LEVEL	35.254 (35.355)	35.254 (35.331)	35.338 (35.334)
DEPTH OF INVERT BELOW DESIGN SURFACE LEVEL	1.550	1.659	1.689 1.918 1.918
INVERT LEVEL	33.704	33.595	33.565 33.420 33.420
CHAINAGE	0.000	10.930 10.930	14.477 25.407
SETOUT COORDINATES	E 10290.260 N 624109.587 RL 35.254	E 10286.915 N 624099.181 RL 35.254	E 10273.002 N 624103.179 RL 35.338

WAT

CONNECT TO EXISTING DRAINAGE. CONTRACTOR TO CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS & REPORT TO ADG.

	1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	16/24
STRUCTURE DESCRIPTION	SIDE ENTRY PIT 2 BAY REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	MANHOLE 900+ REFER NTG STD DRG GS3119	SIDE ENTRY PIT 1 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	MANHOLE 900+ REFER NTG STD DRG GS3119	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	PIPE CONNECTION	EXISTING STRUCTURE	EXISTING STRUCTURE
PIPE SIZE (mm) PIPE CLASS & TYPE	375 RCP 2	750 RCP 2	900 RCP 2	900 RCP 2	900 RCP 2	900 RCP 2	1500 RCP 2	1500 RCP 2	1650 RCP 2	
PIPE GRADE (%) PIPE SLOPE (1 in X)	0.30% 333.3	0.70% 142.9	0.40% 250.0	0.50% 200.0	0.50% 200.0	0.50% 200.0	1.14% 87.6	1.12% 89.2	1.65% 60.7	
FULL PIPE VELOCITY (m/s) NORMAL DEPTH VELOCITY (m/s)	0.35 0.82	1.31 2.22	1.27 1.95	1.27 2.13	1.35 2.16	1.54 2.22	1.15 3.63	1.15 3.60	0.95 4.10	
PIPE FLOW (cumecs) CAPACITY FLOW (cumecs) DATUM RL	0.039 0.096 16.0	0.577 0.932	0.810 1.145	0.805 1.281	0.859 1.281	0.981 1.281	2.039 7.554	2.031 7.489	2.026 11.700	
HGL IN PIPE & WSE IN STRUCTURE	34.318 34.257	34.251 34.284	34.070 33.905 33.932	33.745 33.716 33.743	33.517 33.514 33.524	33.446 33.434	33.336 33.123 33.066	32.902 32.933	32.866 32.876 32.882	32.773 32.800
DESIGN (& EXISTING) SURFACE LEVEL	35.217 (35.608)	35.215 (35.658)	34.909 (35.849)	34.995 (35.881)	34.791 (35.876)	34.704 (35.841)	34.471 (35.540)	34.395 (35.431)	34.357 (35.409)	34.222 (35.393)
DEPTH OF INVERT BELOW DESIGN SURFACE LEVEL	1.209	1.240	1.615 1.705	1.855 2.031	2.061 1.898	1.928 1.929	1.959 1.934	2.534 2.619	2.619 2.662	2.692 2.918 2.918
INVERT LEVEL	34.008	33.975	33.600 33.204	33.054 32.964	32.934 32.893	32.863 32.776	32.746 32.537	31.937 31.776	31.776 31.695	31.665 31.304 31.304
CHAINAGE	0.000 11.008	11.008 56.610	67.618 22.501	90.118 8.217	98.336 17.371	115.707 41.750	157.457 14.123	171.580 7.223	178.803 21.928	200.731
SETOUT COORDINATES	E 10442.923 N 624049.018 RL 35.217	E 10446.660 N 624059.371 RL 35.215	E 10500.554 N 624042.047 RL 34.909	E 10517.623 N 624027.759 RL 34.995	E 10515.149 N 624020.002 RL 34.791	E 10509.869 N 624003.453 RL 34.704	E 10497.181 N 623963.678 RL 34.471	E 10492.859 N 623950.232 RL 34.395	E 10490.686 N 623943.472 RL 34.357	E 10498.845 N 623923.119 RL 34.222

WAT — SEWER

CONSTRUCT MECHANICAL PROTECTION AS PER DETAIL ON DRG DN07F-2000-DRG-1020

CONNECT TO EXISTING DRAINAGE. CONTRACTOR TO CONFIRM INVERT LEVEL & LOCATION PRIOR TO COMMENCING WORKS & REPORT TO ADG.

	1-3		2-3	3-3	4-3	5-3	6-3	7-2
STRUCTURE DESCRIPTION	SIDE ENTRY PIT 3 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114		SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 1 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 3 BAY ISAGI CUSTOM CHAMBER REFER NTG STD DRG GS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG GS3114
PIPE SIZE (mm) PIPE CLASS & TYPE	750 RCP 2		750 RCP 2	750 RCP 2	750 RCP 2	750 RCP 2	900 RCP 2	(2x)900 RCP 2
PIPE GRADE (%) PIPE SLOPE (1 in X)	0.30% 333.3		0.30% 333.3	0.30% 333.3	0.30% 333.3	0.30% 333.3	0.30% 333.3	0.30% 333.3
FULL PIPE VELOCITY (m/s) NORMAL DEPTH VELOCITY (m/s)	0.86 1.46		1.05 1.52	1.19 1.55	1.32 1.57	1.00 1.65	0.83 1.58	
PIPE FLOW (cumecs) CAPACITY FLOW (cumecs) DATUM RL	0.380 0.610 17.0		0.466 0.610	0.524 0.610	0.582 0.610	0.634 0.992	1.050 1.984	
HGL IN PIPE & WSE IN STRUCTURE	33.742 33.639	33.571 33.586	33.499 33.441 33.452	33.378 33.305 33.317	33.232 33.172 33.177	33.145 33.135 33.145	33.066 33.044 33.066	32.902
DESIGN (& EXISTING) SURFACE LEVEL	35.000 (35.269)	34.654	(35.372) 34.456	(35.384) 34.258	(35.592) 34.126	(35.506) 34.089	(35.477) 34.471	(35.540)
DEPTH OF INVERT BELOW DESIGN SURFACE LEVEL	2.222	2.048	2.078 1.979	2.009 1.910	1.940 1.874	1.904 1.891	1.921 2.384	2.534
INVERT LEVEL	32.779	32.605	32.575 32.476	32.446 32.347	32.317 32.251	32.221 32.198	32.168 32.087	31.937
CHAINAGE	0.000 57.759	57.759 32.997	90.756 33.021	123.777 22.000	145.777 7.853	153.629 26.883	180.512	
SETOUT COORDINATES	E 10325.589 N 624019.698 RL 35.000	E 10380.561 N 624001.973 RL 34.654	E 10411.966 N 623991.847 RL 34.456	E 10443.393 N 623981.713 RL 34.258	E 10464.332 N 623971.962 RL 34.126	E 10471.805 N 623972.552 RL 34.089	E 10497.181 N 623963.678 RL 34.471	

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

LINE 01 2 3

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: STORMWATER LONGITUDINAL SECTIONS SHEET 1 OF 3
Drawing No.: DN07F-3000-DRG-2000
Revision: D

PLOT DATE: 12/19/2025 8:05 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2000_STORMWATER LONGITUDINAL SECTIONS SHEET 1 OF 3.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

STRUCTURE NAME	1-4	2-4	3-4	1-3	1-5	2-5	3-5	6-3	1-6	2-2	1-7	5-2	1-8	5-3	1-PC1	1-01	1-PC2	3-2	1-PC3	3-5	MH.	4-2
STRUCTURE DESCRIPTION	SIDE ENTRY PIT 3 BAY REFER NTG STD DRG CS3114	SIDE ENTRY PIT 2 BAY (SAG) REFER NTG STD DRG CS3114	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	SIDE ENTRY PIT 3 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	SIDE ENTRY PIT 2 BAY REFER NTG STD DRG CS3114	MANHOLE 900x600 REFER NTG STD DRG CS3119	SIDE ENTRY PIT 3 BAY (SAG) REFER NTG STD DRG CS3114	SIDE ENTRY PIT 3 BAY (SAG) CUSTOM CHAMBER REFER NTG STD DRG CS3114	MANHOLE 900+ REFER NTG STD DRG CS3119	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	SIDE ENTRY PIT 1 BAY REFER NTG STD DRG CS3114	SIDE ENTRY PIT 1 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	SIDE ENTRY PIT 1 BAY REFER NTG STD DRG CS3114	SIDE ENTRY PIT 1 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT (SAG) 900x900 CUSTOM PIT REFER ADG DRG	SIDE ENTRY PIT 3 BAY (SAG) REFER NTG STD DRG CS3114	MANHOLE 900x600 REFER NTG STD DRG CS3119	MANHOLE 900+ REFER NTG STD DRG CS3119
PIPE SIZE (mm)	375	450	450		375	375	750		600		375		375		600		450		450		375	
PIPE CLASS & TYPE	RCP 2	RCP 2	RCP 2		RCP 2	RCP 2	RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2	
PIPE GRADE (%)	1.00%	1.00%	1.00%		1.00%	3.00%	1.00%		0.70%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%	
PIPE SLOPE (1 in X)	100.0	100.0	100.0		100.0	33.3	100.0		142.9		100.0		100.0		100.0		100.0		100.0		100.0	
FULL PIPE VELOCITY (m/s)	0.22	0.33	1.61		0.17	0.17	0.82		0.91		0.34		0.44		1.68		1.38		2.04		0.47	
NORMAL DEPTH VELOCITY (m/s)	1.11	1.37	2.03		1.03	1.51	2.25		1.82		1.26		1.36		2.40		1.98		2.04		1.38	
PIPE FLOW (cumecs)	0.024	0.053	0.256		0.018	0.018	0.361		0.256		0.037		0.049		0.475		0.220		0.325		0.052	
CAPACITY FLOW (cumecs)	0.175	0.285	0.285		0.175	0.304	1.114		0.514		0.175		0.175		0.614		0.285		0.285		0.175	
DATUM RL	17.0				17.0				18.0		17.0		16.0		18.0		18.0		17.0		17.0	
HGL IN PIPE & WSE IN STRUCTURE	33.988 / 33.970	33.969 / 33.970	33.956	33.949 / 33.976	33.776	33.720 / 33.742	33.639	33.249	33.235	33.154 / 33.154	33.151	33.159 / 33.164	33.142	33.155 / 33.145	33.066	33.370	34.313	34.180 / 33.524	34.446	34.469	34.358	34.251 / 34.284
DESIGN (& EXISTING) SURFACE LEVEL	34.593 (35.407)	34.593 (35.379)	35.000 (34.859)	35.000 (35.269)	34.591 (35.661)	34.564 (35.558)	34.089 (35.509)	34.089 (35.477)	35.432 (35.551)	35.215 (35.658)	34.784 (35.848)	34.791 (35.876)	34.124 (35.526)	34.126 (35.506)	33.945 (35.313)	35.254 (35.355)	34.146	34.909 (35.849)	35.254	34.832 (35.560)	34.089	34.995 (35.904)
DEPTH OF INVERT BELOW DESIGN SURFACE LEVEL	1.341	1.412	2.092	2.192	1.451	1.522	1.452	1.821	1.403	1.465	0.610	0.728	1.131	1.204	1.736	1.520	1.550	1.635	2.185	2.361	1.722	2.031
INVERT LEVEL	33.252	33.181	32.909	32.809	33.139	33.042	32.637	32.268	34.029	33.750	34.174	34.063	32.993	32.921	33.789	33.734	33.704	33.274	32.724	32.470	32.367	32.337	32.964	32.934
CHAINAGE	0.000 / 7.040	7.040 / 26.784	26.784 / 33.784		0.000 / 9.748	9.748 / 22.247	22.247 / 29.143	29.143	0.000 / 39.811	39.811	0.000 / 11.117	11.117	0.000 / 7.154	7.154	0.000 / 5.430	5.430	0.000 / 5.225	5.225	0.000 / 10.365	10.365	0.000 / 13.521	13.521
SETOUT COORDINATES	E 10353.723 N 624027.849 RL 34.593	E 10347.028 N 624030.026 RL 34.593	E 10327.737 N 624026.360 RL 35.000	E 10325.589 N 624019.698 RL 35.000	E 10493.466 N 623988.066 RL 34.591	E 10486.104 N 623981.865 RL 34.564	E 10473.991 N 623979.093 RL 34.089	E 10471.805 N 623972.552 RL 34.089	E 10417.728 N 624068.671 RL 35.432	E 10446.660 N 624059.371 RL 35.215	E 10504.294 N 624022.386 RL 34.784	E 10515.149 N 624020.002 RL 34.791	E 10466.738 N 623981.698 RL 34.124	E 10464.332 N 623974.962 RL 34.126	E 10291.678 N 624114.828 RL 35.525	E 10290.260 N 624109.587 RL 35.254	E 10501.971 N 624047.076 RL 35.221	E 10500.554 N 624042.047 RL 34.909	E 10478.776 N 623988.282 RL 34.832	E 10473.991 N 623979.093 RL 34.089	E 10517.623 N 624027.759 RL 34.995
LINE	4				5				6		7		8		PC1		PC2		PC3		PC8 MH	

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

ISSUED FOR
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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Title: STORMWATER LONGITUDINAL SECTIONS SHEET 2 OF 3
Drawing No.: DN07F-3000-DRG-2001
Revision: C

PLOT DATE: 12/19/2025 8:10 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-3000-DRG-2001_STORMWATER LONGITUDINAL SECTIONS SHEET 2 OF 3.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

STRUCTURE NAME	1-PC4	3-4	1-PC5	1-3	1-PC6	1-3	1-PC7	2-3	1-PC8	3-3	1-PC9	4-3	1-PC10	6-3	1-PC12	1-6	1-PC13	2-2	1-A45	2-A45
STRUCTURE DESCRIPTION	GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT (SAG) 900x900 CUSTOM PIT REFER ADG DRG		GRATED INLET PIT (SAG) 900x900 CUSTOM PIT REFER ADG DRG		GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT (SAG) 900x900 REFER NTG STD DRG CS3119		GRATED INLET PIT (SAG) 900x600 REFER NTG STD DRG CS3119	SIDE ENTRY PIT 2 BAY CUSTOM CHAMBER REFER NTG STD DRG CS3114	GRATED INLET PIT (SAG) 900x600 REFER NTG STD DRG CS3119	EXISTING MANHOLE 900x600
PIPE SIZE (mm)	375		450		375		375		375		375		375		600		450		375	
PIPE CLASS & TYPE	RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2		RCP 2	
PIPE GRADE (%)	1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		3.99%	
PIPE SLOPE (1 in X)	100.0		100.0		100.0		100.0		100.0		100.0		100.0		100.0		100.0		25.1	
FULL PIPE VELOCITY (m/s)	1.48		0.74		0.73		0.67		0.46		0.46		0.53		0.91		1.55		1.06	
NORMAL DEPTH VELOCITY (m/s)	1.80		1.70		1.55		1.52		1.38		1.38		1.43		2.07		2.02		2.85	
PIPE FLOW (cumecs)	0.164		0.117		0.081		0.074		0.051		0.051		0.058		0.257		0.247		0.117	
CAPACITY FLOW (cumecs)	0.175		0.285		0.175		0.175		0.175		0.175		0.175		0.614		0.285		0.350	
DATUM RL	17.0		18.0		17.0		17.0		17.0		17.0		17.0		18.0		17.0		18.0	
HGL IN PIPE & WSE IN STRUCTURE	34.766	34.519	34.160	34.665	34.261	34.484	34.160	34.038	33.957	33.906	33.817	33.775	33.671	33.614	34.979	34.772	34.824	34.284	35.069	34.754
		34.444		34.651		34.187		34.023		33.899		33.368		33.604		34.749		34.251		
		34.447		34.664		34.091		34.033		33.906		33.375		33.613		34.768		34.284		
DESIGN (& EXISTING) SURFACE LEVEL	35.247	(34.837)	35.267	(35.294)	35.335	(35.372)	35.071	(35.377)	34.920	(35.365)	34.768	(35.547)	34.633	(35.445)	35.649	(35.612)	35.522	(35.683)	35.502	(35.334)
		35.000		35.549		35.000		34.654		34.456		34.258		34.089		35.379		35.215		35.325
		(34.859)		(35.275)		(35.269)		(35.372)		(35.384)		(35.592)		(35.477)		(35.596)		(35.658)		(35.344)
DEPTH OF INVERT BELOW DESIGN SURFACE LEVEL		2.284		1.750		2.373		1.615		1.740		1.867		1.853		1.933		1.669		1.000
		2.092		2.112		2.122		1.278		1.359		1.440		1.396		1.716		1.415		1.025
		2.122		2.142		2.222		2.078		2.009		1.940		1.921		1.746		1.615		1.025
INVERT LEVEL		32.963		33.517		32.962		33.456		33.180		32.901		32.780		33.715		33.853		34.502
		32.909		33.437		32.879		33.375		33.096		32.817		32.693		33.663		33.800		34.300
		32.879		33.407		32.779		32.575		32.446		32.317		32.168		33.633		33.600		34.300
CHAINAGE	0.000	5.421	0.000	8.020	0.000	8.287	0.000	8.076	0.000	8.376	0.000	8.409	0.000	8.736	0.000	5.249	0.000	5.286	0.000	5.079
		5.421		8.020		8.287		8.076		8.376		8.409		8.736		5.249		5.286		5.079
SETOUT COORDINATES	E 10328.960		E 10267.691		E 10322.961		E 10378.060		E 10409.287		E 10440.709		E 10469.154		E 10419.338		E 10448.986		E 10237.819	
	N 6240331.640		N 6240446.539		N 6240411.839		N 6239994.295		N 6239831.911		N 6239731.744		N 6239641.228		N 6240731.667		N 6240641.109		N 6240435.611	
	RL 35.247		RL 35.267		RL 35.335		RL 35.071		RL 34.920		RL 34.768		RL 34.633		RL 35.649		RL 35.522		RL 35.502	
	E 10327.737		E 10268.792		E 10325.589		E 10380.561		E 10411.966		E 10443.393		E 10471.805		E 10417.728		E 10446.660		E 10235.075	
	N 6240326.360		N 6240438.595		N 6240419.698		N 6240001.973		N 6239918.647		N 6239781.713		N 6239725.552		N 6240683.671		N 6240459.371		N 6240431.397	
	RL 35.000		RL 35.549		RL 35.000		RL 34.654		RL 34.456		RL 34.258		RL 34.089		RL 35.379		RL 35.215		RL 35.325	
LINE	PC4		PC5		PC6		PC7		PC8		PC9		PC10		PC12		PC13		A45	

CONSTRUCT MECHANICAL PROTECTION AS PER DETAIL ON DRG DN07F-2000-DRG-1020

PROPOSED STORMWATER MAIN TO CONNECT INTO EXISTING STORMWATER GIP

SCALE 1:100 VERTICAL
0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1:1000 HORIZONTAL
AT ORIGINAL SIZE (A1)

Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

ISSUED FOR
APPROVAL

DCOH
NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: AS SHOWN

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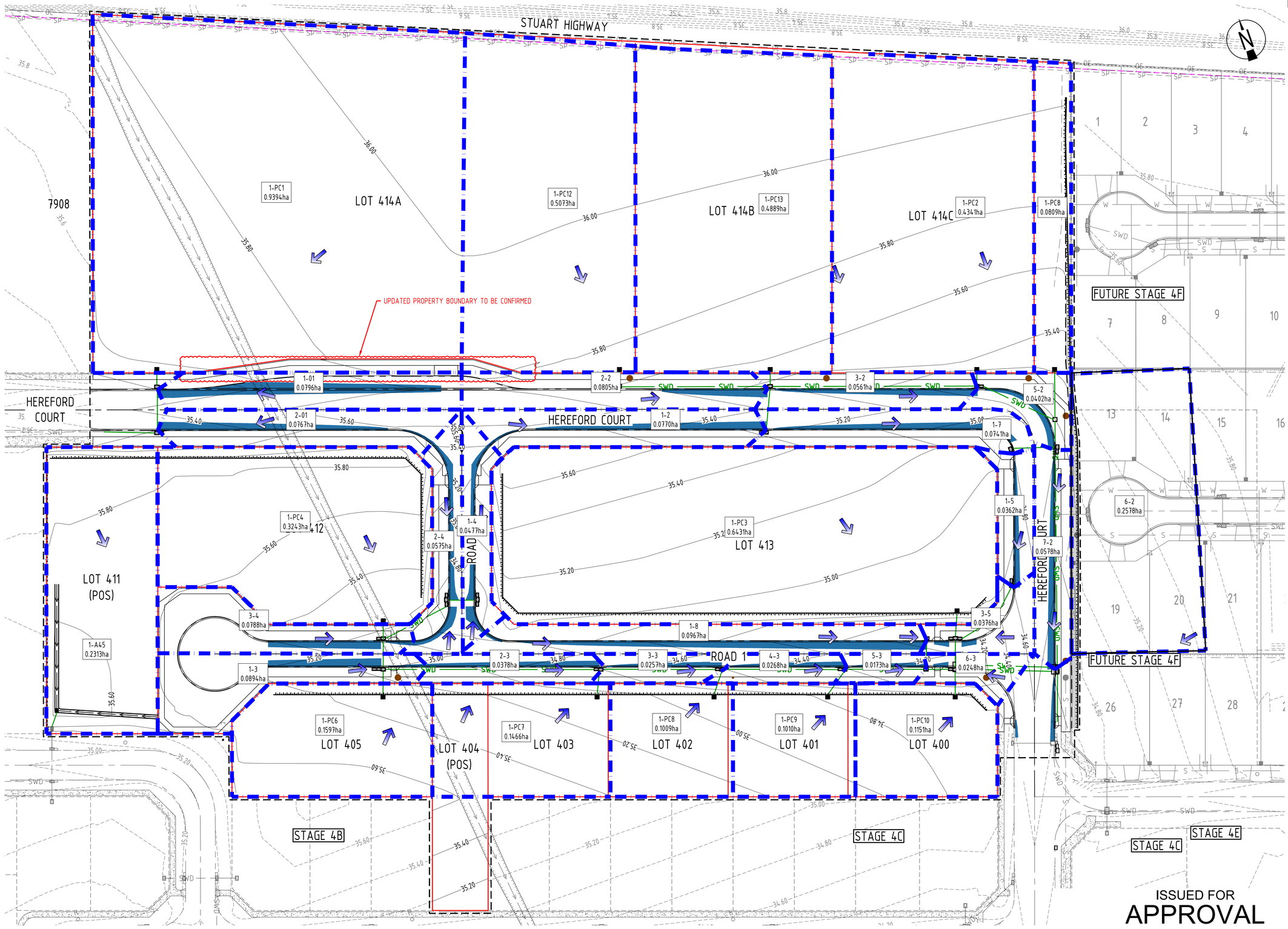
Title: STORMWATER LONGITUDINAL SECTIONS SHEET 3 OF 3
Drawing No.: DN07F-3000-DRG-2002
Revision: D

PLOT DATE: 12/19/2025 8:09 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-3000-DRG-2002_STORMWATER LONGITUDINAL SECTIONS SHEET 3 OF 3.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- LIMIT OF WORKS
- 12.0 EXISTING SURFACE CONTOURS
- 12.0 DESIGN SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- SWD EXISTING STORMWATER DRAINAGE
- EXISTING TOP OF BATTER
- EXISTING SWALE
- SWD PROPOSED STORWATER DRAINAGE
- PROPOSED ROAD CENTRELINE
- PROPOSED KERB
- PROPOSED BATTER
- PROPOSED RETAINING WALL
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED FLOOD WIDTHS
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT
- MINOR CATCHMENT BOUNDARY
- 1/5 0.1966ha CATCHMENT LABEL
- CATCHMENT FLOW DIRECTION



ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 10 20 30m
SCALE 1:500
AT ORIGINAL SIZE (A1)

DCOH
NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client	DCOH LAND PTY LTD
Project Name	NORTHCREST - STAGE 7F BERRIMAH, NT 0828
Discipline	CIVIL
Status	APPROVAL
Designed By	HD
Checked By	SW
Approved By	SW
Project No.	20172_014
Drawn By	AB
Scale at A1	1:500

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Title	STORMWATER CATCHMENT PLAN
Drawing No.	DN07F-3000-DRG-2003
Revision	C

PLOT DATE: 12/19/2025 8:05 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2003_STORMWATER CATCHMENT PLAN.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

Location				Sub-Catchment Runoff							Inlet Design				Drain Design											Headlosses							Freeboard			
	Structure	Drain	Design	Area	Fraction	Coeff. of	Equiv.	Time of	Rainfall	Sub-catchment	Approach	Captured	Bypass	Bypass	Critical	Critical	Critical	Total	Pipe	Pipe Size	U/S	D/S	Length	Grade	Roughness	Headloss	Change in	U/S	Velocity	Friction	HGL	D/S	Cover	Water	Freeboard	Structure
Pit Type	Name	Reach	Frequency	A	Impervious	Discharge C	Area CA	Conc. tc	Intensity	Runoff Qc	Flow Qa	Flow Qi	Flow Qb	Structure	CA	tc	Intensity	Flow	Flow	Pipe (mm)	IL	IL	(m)	(1:X)	Manning n	Ku(Kw)	WSE	HGL	(m/s)	Grade	Headloss	hf (m)	Level	Surface		Name
			AEP (%)	(ha)	(%)		(ha)	(min)	(mm/h)	(L/s)	(L/s)	(L/s)	(L/s)		(ha)	(min)	(mm/h)	(L/s)	(L/s)	Box WxH (mm)					Colebrook k		(m)			(%)				Level		
CS SEP2	1-01	1-01 to 2-01	10	0.0757	90	0.89	0.0675	5.0	214.8	40	40	40	0	1-EX A42	0.8637	5.0	214.5	515	515	750	33.704	33.595	10.930	100.0	n=0.013	0	0.000	34.147	2.47	-0.45	0.041	34.195	35.254	34.147	1.108	1-01
CS SEP2	2-01	2-01 to 1-EX01	10	0.0729	90	0.89	0.0650	5.0	214.8	39	39	39	0	2-EX01	0.9288	5.1	213.8	552	552	750	33.565	33.420	14.477	100.0	n=0.013	2.16(2.67)	0.212	34.024	2.51	0.46	0.125	33.957	35.254	34.236	1.018	2-01
CONN	1-EX01		10	0.0000	0		0.0000	0.0	0.0	0	0	0	0													1	0.079						35.338	33.957	1.381	1-EX01
CS SEP2	1-2	1-2 to 2-2	10	0.0732	90	0.89	0.0653	5.0	214.8	39	39	39	0	1-7	0.0653	5.0	214.8	39	39	375	34.008	33.975	11.008	333.3	n=0.013	9.7	0.062	34.257	0.82	0.05	0.008	34.251	35.217	34.318	0.899	1-2
CS SEP2 CUSTOM	2-2	2-2 to 3-2	10	0.0764	90	0.89	0.0682	5.0	214.8	41	41	41	0	3-2	0.9794	5.4	212.1	577	577	750	33.600	33.204	56.610	142.9	n=0.013	2.09(2.46)	0.214	34.070	2.22	0.16	0.202	33.981	35.215	34.284	0.931	2-2
CS SEP2 CUSTOM	3-2	3-2 to 4-2	10	0.0533	90	0.89	0.0475	5.0	214.8	28	28	28	0	4-2	1.3978	5.8	208.7	810	810	900	33.054	32.964	22.501	250.0	n=0.013	1.94(2.26)	0.187	33.821	1.95	0.13	0.040	33.792	34.909	34.008	0.901	3-2
CS MH 900+	4-2	4-2 to 5-2	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0	5-2	1.4856	6.0	207.3	856	856	900	32.934	32.893	8.217	200.0	n=0.013	2.49(2.77)	0.256	33.562	2.16	0.08	0.025	33.555	34.995	33.818	1.177	4-2
CS SEP1 CUSTOM	5-2	5-2 to 6-2	10	0.0382	90	0.89	0.0340	5.0	214.8	20	20	20	0	6-2	1.5833	6.1	206.9	910	910	900	32.863	32.776	17.371	200.0	n=0.013	0.71(0.82)	0.085	33.481	2.18	0.11	0.058	33.462	34.791	33.566	1.224	5-2
CS MH 900+	6-2	6-2 to 7-2	10	0.2450	90	0.89	0.2185	5.0	214.8	130	130	130	0	7-2	1.8043	6.2	205.8	1031	1031	900	32.746	32.537	41.750	200.0	n=0.013	0.78	0.104	33.358	2.24	0.53	0.209	33.138	34.704	33.462	1.242	6-2
CS SEP2 CUSTOM	7-2	7-2 to 8-2	10	0.0549	90	0.89	0.0490	5.0	214.8	29	29	29	0	8-2	3.6988	6.6	203.3	2089	2089	1500	31.937	31.776	14.123	87.6	n=0.013	2.07(2.40)	0.171	32.908	3.65	-0.23	0.017	32.940	34.471	33.079	1.393	7-2
CONN	8-2	8-2 to 9-2	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0	9-2	3.6988	6.7	202.5	2080	2080	1500	31.776	31.695	7.223	89.2	n=0.013	1	0.071	32.869	3.63	-0.14	0.007	32.879	34.395	32.940	1.455	8-2
EXISTING	9-2	9-2 to 10-2	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0		3.6988	6.8	202.0	2076	2076	1650	31.665	31.304	21.928	60.7	n=0.013	2.25(2.39)	0.115	32.771	4.13	-0.13	0.013	32.800	34.357	32.886	1.471	9-2
EXISTING	16/24		10																													34.222	32.800		16/24
CS SEP3 CUSTOM	1-3	1-3 to 2-3	10	0.0850	90	0.89	0.0758	5.0	214.8	45	45	45	0	2-3	0.6423	5.2	213.2	380	380	750	32.779	32.605	57.759	333.3	n=0.013	2.15(2.73)	0.103	33.651	1.46	0.12	0.067	33.583	35.000	33.754	1.246	1-3
CS SEP2 CUSTOM	2-3	2-3 to 3-3	10	0.0359	90	0.89	0.0321	5.0	214.8	19	19	19	0	3-3	0.7966	5.6	210.6	466	466	750	32.575	32.476	32.997	333.3	n=0.013	1.28(1.54)	0.087	33.511	1.52	0.18	0.058	33.453	34.654	33.598	1.056	2-3
CS SEP2 CUSTOM	3-3	3-3 to 4-3	10	0.0244	90	0.89	0.0218	5.0	214.8	13	13	13	0	4-3	0.9046	5.9	208.6	524	524	750	32.446	32.347	33.021	333.3	n=0.013	0.88(1.03)	0.074	33.390	1.55	0.22	0.073	33.317	34.456	33.464	0.992	3-3
CS SEP2 CUSTOM	4-3	4-3 to 5-3	10	0.0254	90	0.89	0.0227	5.0	214.8	14	14	14	0	5-3	1.0140	6.1	206.6	582	582	750	32.317	32.251	22.000	333.3	n=0.013	0.82(0.95)	0.084	33.244	1.57	0.27	0.060	33.184	34.258	33.328	0.929	4-3
CS SEP1 CUSTOM	5-3	5-3 to 6-3	10	0.0164	90	0.89	0.0147	5.0	214.8	9	9	9	0	6-3	1.1117	6.3	205.3	634	634	900	32.221	32.198	7.853	333.3	n=0.013	0.54(0.64)	0.032	33.157	1.65	0.12	0.010	33.147	34.126	33.189	0.937	5-3
SAG CS SEP3 CUSTOM	6-3	6-3 to 6-2	10	0.0236	90	0.89	0.0210	5.0	214.8	13	13	13	0		1.8458	6.4	204.8	1050	1050	(2x)900	32.168	32.087	26.883	333.3	n=0.013	2.00(2.29)	0.080	33.077	1.58	0.08	0.023	33.055	34.089	33.157	0.932	6-3
CS SEP2 CUSTOM	7-2		10	0.0549	90	0.89	0.0490	5.0	214.8	29	29	29	0	8-2												2.07(2.40)	0.171						34.471	33.079	1.393	7-2
CS SEP3	1-4	1-4 to 2-4	10	0.0454	90	0.89	0.0405	5.0	214.8	24	24	24	0		0.0405	5.0	214.8	24	24	375	33.252	33.181	7.040	100.0	n=0.013	7.05	0.017	33.981	1.11	0.02	0.001	33.979	34.593	33.998	0.595	1-4
SAG CS SEP2	2-4	2-4 to 3-4	10	0.0547	90	0.89	0.0488	5.0	214.8	29	29	29	0		0.0893	5.1	214.4	53	53	450	33.106	32.909	19.744	100.0	n=0.013	2.29(2.51)	0.014	33.966	1.37	0.03	0.007	33.959	34.593	33.981	0.612	2-4
CS SEP2 CUSTOM	3-4	3-4 to 1-3	10	0.0749	90	0.89	0.0668	5.0	214.8	40	40	40	0	2-4	0.4308	5.2	213.6	256	256	450	32.879	32.809	7.000	100.0	n=0.013	1.30(1.50)	0.198	33.788	2.03	0.80	0.056	33.732	35.000	33.986	1.014	3-4
CS SEP3 CUSTOM	1-3		10	0.0850	90	0.89	0.0758	5.0	214.8	45	45	45	0	2-3												2.15(2.73)	0.103						35.000	33.754	1.246	1-3
CS SEP2	1-5	1-5 to 2-5	10	0.0344	90	0.89	0.0307	5.0	214.8	18	18	18	0		0.0307	5.0	214.8	18	18	375	33.139	33.042	9.748	100.0	n=0.013	9.7	0.014	33.235	1.03	0.69	0.086	33.168	34.591	33.249	1.342	1-5
CS MH 900x600	2-5	2-5 to 3-5	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0		0.0307	5.1	214.2	18	18	375	33.012	32.637	12.499	33.3	n=0.013	1.79(2.16)	0.003	33.165	1.51	-0.05	0.002	33.171	34.564	33.168	1.396	2-5
SAG CS SEP3	3-5	3-5 to 6-3	10	0.0357	90	0.89	0.0318	5.0	214.8	19	19	19	0		0.6069	5.1	214.2	361	361	750	32.337	32.268	6.896	100.0	n=0.013	0.50(0.65)	0.022	33.154	2.25	0.11	0.007	33.147	34.089	33.176	0.913	3-5
SAG CS SEP3 CUSTOM	6-3		10	0.0236	90	0.89	0.0210	5.0	214.8	13	13	13	0													2.00(2.29)	0.080						34.089	33.157	0.932	6-3
CS MH 900+	1-6	1-6 to 2-2	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0	2-2	0.4300	5.0	214.5	256	256	600	34.029	33.750	39.811	142.9	n=0.013	2.10(2.66)	0.112	34.358	1.82	0.27	0.187	34.251	35.432	34.469	0.963	1-6
CS SEP2 CUSTOM	2-2		10	0.0764	90	0.89	0.0682	5.0	214.8	41	41	41	0	3-2												2.09(2.46)	0.214						35.215	34.284	0.931	2-2
CS SEP1	1-7	1-7 to 5-2	10	0.0704	90	0.89	0.0628	5.0	214.8	37	37	37	0	1-5	0.0628	5.0	214.8	37	37	375	34.174	34.063	11.117	100.0	n=0.013	9.7	0.057	34.313	1.26	1.19	0.103	34.180	34.784	34.370	0.413	1-7
CS SEP1 CUSTOM	5-2		10	0.0382	90	0.89	0.0340	5.0	214.8	20	20	20	0	6-2												0.71(0.82)	0.085						34.791	33.566	1.224	5-2
CS SEP1	1-8	1-8 to 5-3	10	0.0918	90	0.89	0.0819	5.0	214.8	49	49	49	0	3-5	0.0819	5.0	214.8	49	49	375	32.993	32.921	7.154	100.0	n=0.013	9.7	0.097	33.169	1.36	-0.21	0.014	33.184	34.124	33.266	0.858	1-8
CS SEP1 CUSTOM	5-3		10	0.0164	90	0.89	0.0147	5.0	214.8	9	9	9	0	6-3												0.54(0.64)	0.032						34.126	33.189	0.937	5-3
SAG CS GIP 900x600	1-A45	1-A45 to 2-A45	10	0.2198	90	0.89	0.1960	5.0	214.8	117	117	117	0		0.1960	5.0	214.8	117	117	375	34.502	34.300	5.079	25.1	n=0.013	5.5	0.315	34.754	2.85	6.01	0.002	34.449	35.502	35.069	0.433	1-A45
EXISTING	2-A45		10																													35.325	34.449		2-A45
CS SEP2	1-EX A42	1-EX A42 to 2-EX01	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0		0.0000	1.0	271.8	0	0	525	33.076	32.957	11.863	100.0	n=0.013	0	0.000	33.500	0.00	0.00	0.000	33.500	34.995	33.500	1.495	1-EX A42
CS SEP2	2-EX01		10	0.0000	0		0.0000	0.0	0.0	0	0	0	0													0.23(0.24)	0.009						34.997	33.501	1.496	2-EX01
CONN	1-EX01	1-EX01 to 2-EX01	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0		0.9288	5.3	212.9	549	549	750	33.420	33.027	39.308	100.0	n=0.013	1	0.079	33.878	2.51	0.96	0.392	33.500	35.338	33.957	1.381	1-EX01
CS SEP2	2-EX01	2-EX01 to 3-EX01	10	0.0000	0		0.0000	0.0	0.0	0	0	0	0		0.9288	5.6	210.6	543	543	900	32.877	32.600	27.431	99.0	n=0.013	0.23(0.24)	0.009	33.492	2.50	-0.03	0.025	33.500	34.997	33.501	1.496	2-EX01
SAG CS GIP 1200x1200	3-EX01		10																													35.671	33.500		3-EX01
SAG CS GIP 900x900	1-PC1	1-PC1 to 1-01	10	0.8924	90	0.89	0.7962	5.0	214.8	475	475	475	0		0.7962	5.0	214.8	475	475	600	33.789	33.734	5.430	100.0	n=0.013	4.59	0.661	34.240	2.40	1.73	0.046	34.147	35.525	34.901	0.624	1-PC1
CS SEP2	1-01		10	0.0757	90	0.89	0.0675	5.0	214.8	40	40	40	0	1-EX A42												0	0.000						35.254	34.147	1.108	1-01
SAG CS GIP 900x900	1-PC10	1-PC10 to 6-3	10	0.1093	90	0.89	0.0975	5.0	214.8	58	58	58	0		0.0975	5.0	214.8	58	58	375	32.780	32.693	8.736	100.0	n=0.013	7	0.099	33.157	1.43	0.11	0.010	33.147	34.633	33.256	1.377	1-PC10
SAG CS SEP3 CUSTOM	6-3		10	0.0236	90	0.89	0.0210	5.0	214.8	13	13	13	0													2.00(2.29)	0.080						34.089	33.157	0.932	6-3
SAG CS GIP 900x900	1-PC12	1-PC12 to 1-6	10	0.4820	90	0.89	0.4300	5.0	214.8	257	257	257	0		0.4300	5.0	214.8	257	257	600	34.112	34.059	5.283	100.0	n=0.013	7	0.294	34.441	2.07	-0.09	0.038	34.446	35.683	34.735	0.948	1-PC12
CS MH 900+	1-6		10	0.0000	0		0.0000	0.0	0.0	0	0	0	0	2-2												2.10(2.66)	0.112						35.432	34.469	0.963	1-6
SAG CS GIP 900x600	1-PC13	1-PC13 to 2-2	10	0.4644	90	0.89	0.4143	5.0	214.8	247	247	247	0		0.4143	5.0	214.8	247	247	450	33.853	33.800	5.286	100.0	n=0.013	4.38	0.540	34.284	2.02	0.61	0.036	34.251	35.522	34.824	0.698	1-PC13
CS SEP2 CUSTOM	2-2		10	0.0764	90	0.89	0.0682	5.0	214.8	41	41	41	0	3-2												2.09(2.46)	0.214						35.215	34.284	0.931	2-2
SAG CS GIP 900x900	1-PC2	1-PC2 to 3-2	10	0.4124	90	0.89	0.3679	5.0	214.8	220	220	220	0		0.3679	5.0	214.8	220	220	450	33.656	33.604	5.225	100.0	n=0.013	4.75	0.461	33.986	1.98	0.09	0.041	33.981	35.221	34.448	0.774	1-PC2
CS SEP2 CUSTOM	3-2		10	0.0533	90	0.89	0.0475	5.0	214.8	28	28	28	0	4-2												1.94(2.26)	0.187						34.909	34.008	0.901	3-2
SAG CS GIP 900x900	1-PC3	1-PC3 to 3-5	10	0.6109	90	0.89	0.5450	5.0	214.8	325	325	325	0		0.5450	5.0	214.8	325	325	450	32.470	32.367	10.365	100.0	n=0.013	2.97	0.633	33.306	2.04	1.30	0.135	33.171	34.832	33.939	0.893	1-PC3
SAG CS SEP3	3-5		10	0.0357	90	0.89	0.0318	5.0	214.8	19	19	19	0													0.50(0.65)	0.022						34.089	33.176	0.913	3-5
SAG CS GIP 900x900	1-PC4	1-PC4 to 3-4	10	0.3081	90	0.89	0.2748	5.0	214.8	164	164	164	0		0.2748	5.0	214.8	164	164	375	32.963	32.909	5.421	100.0	n=0.013	2.73	0.307	34.007	1.80	0.87	0.047	33.959	35.247	34.314	0.933	1-PC4
CS SEP2 CUSTOM	3-4		10	0.0749	90	0.89	0.0668	5.0	214.8	40	40	40	0	2-4												1.30(1.50)	0.198						35.000	33.986	1.014	3-4
SAG CS GIP 900x900	1-PC6	1-PC6 to 1-3	10	0.1517	90	0.89	0.1353	5.0	214.8	81	81	81	0		0.1353	5.0	214.8	81	81	375	32.962	32.879	8.287	100.0	n=0.013	3.98	0.109	33.750	1.55	0.21	0.018	33.732	35.335	33.858	1.477	1-PC6
CS SEP3 CUSTOM	1-3		10	0.0850	90	0.89	0.0758	5.0	214.8	45	45	45	0	2-3												2.15(2.73)	0.103						35.000	33.754	1.246	1-3
SAG CS GIP 900x900	1-PC7	1-PC7 to 2-3	10	0.1392	90	0.89	0.1242	5.0	214.8	74	74	74	0		0.1242	5.0	214.8	74	74	375	33.456	33.375	8.076	100.0	n=0.013	7	0.161	33.655	1.52	0.89	0.080	33.583	35.071	33.816	1.255	1-PC7
CS SEP2 CUSTOM	2-3		10	0.0359	90	0.89	0.0321	5.0	214.8	19	19	19	0	3-3												1.28(1.54)	0.087						34.654	33.598	1.056	2-3

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APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

DCOH NORTHCREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By	Checked By	Approved By
HD	SW	SW
Project No.	Drawn By	Scale at A1
20172_014	AB	AS SHOWN

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Title: STORMWATER CALCULATIONS TABLE

Drawing No.: DN07F-3000-DRG-2004
Revision: C

PLOT DATE: 12/19/2025 8:07 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2004_STORMWATER CALCULATIONS TABLE.DWG

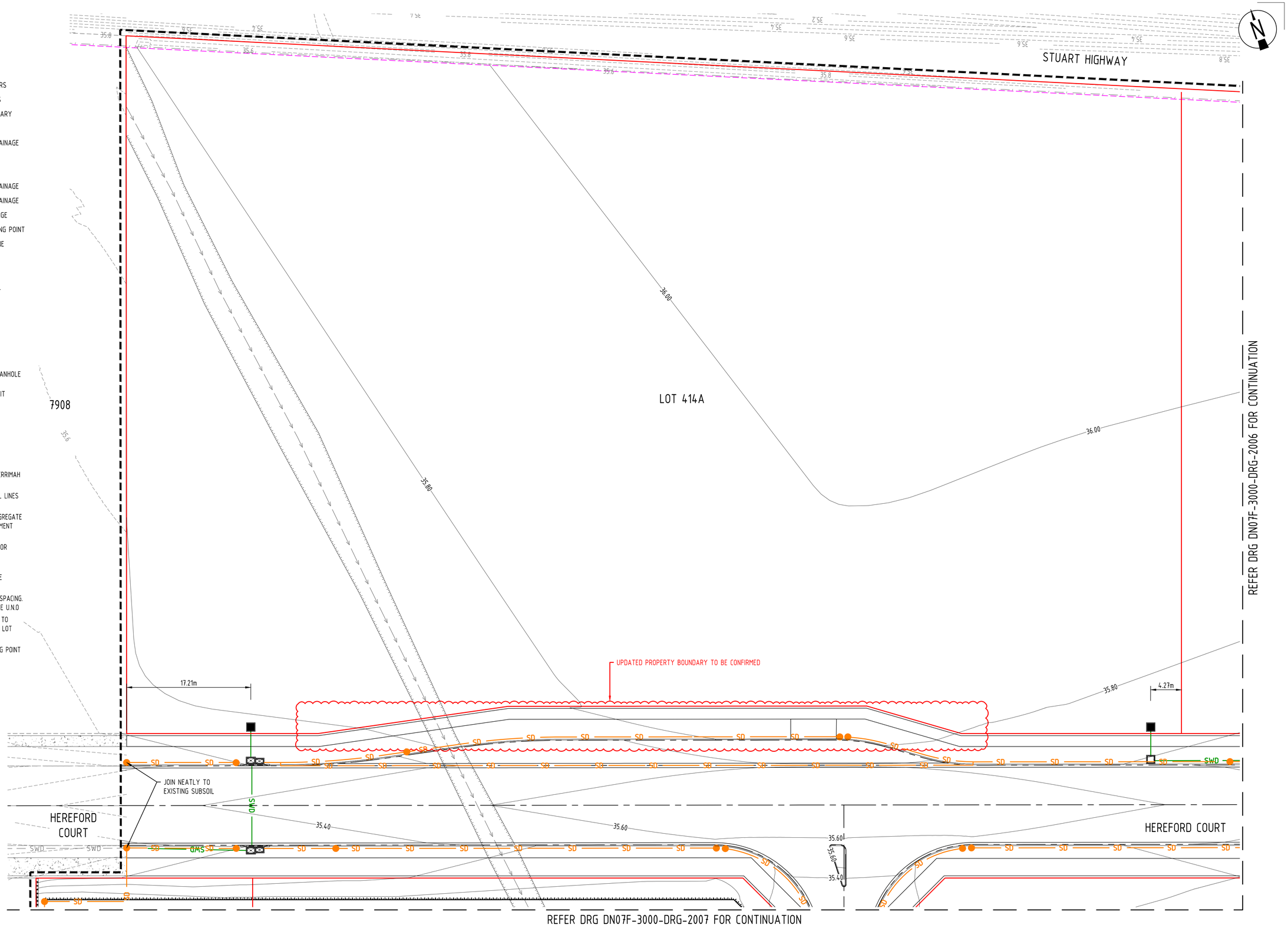
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- LOT BOUNDARY
- ADJACENT LOT BOUNDARY
- LIMIT OF WORKS
- 12.0 EXISTING SURFACE CONTOURS
- 12.0 DESIGN SURFACE CONTOURS
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- SWD EXISTING STORMWATER DRAINAGE
- EXISTING TOP OF BATTER
- EXISTING SWALE
- PROPOSED STORWATER DRAINAGE
- SWD PROPOSED STORWATER DRAINAGE
- SD PROPOSED SUBSOIL DRAINAGE
- SD PROPOSED SUBSOIL FLUSHING POINT
- PROPOSED ROAD CENTRELINE
- PROPOSED KERB
- PROPOSED BATTER
- PROPOSED RETAINING WALL
- EXISTING FOOTPATH
- EXISTING ROAD
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT

SUBSOIL DRAINAGE NOTES

1. ALL SUBSOIL DRAINAGE TO BE IN ACCORDANCE WITH BERRIMAH FARM SDG STD DRG USG127.
2. FLUSHING POINTS SHALL BE PROVIDED AT HEAD OF ALL LINES AND 60m MAXIMUM SPACING.
3. UNDER ROAD PAVEMENTS THE WRAPPED SCREENED AGGREGATE SHALL EXTEND TO THE UNDERSIDE OF THE ROAD PAVEMENT AND PIPE COVER SHALL BE 750mm MINIMUM.
4. SUBSOIL DRAINS SHALL, REGARDLESS OF ROAD GRADE OR FINISHED SURFACE LEVEL, BE LAID WITH A MINIMUM LONGITUDINAL GRADE OF 0.5%.
5. ALL SUBSOIL DRAINS SHALL DISCHARGE TO A DRAINAGE STRUCTURE UNLESS NOTED OTHERWISE ON THE PLANS.
6. SUBSOIL OUTLETS TO BE PROVIDED AT 150m MAXIMUM SPACING. ALL SUBSOIL TO DISCHARGE TO A DRAINAGE STRUCTURE U.N.O
7. WHEN LOCATING FLUSHING POINTS THE CONTRACTOR IS TO TAKE INTO CONSIDERATION LOCATION OF SERVICES AND LOT ACCESSES.
8. CONCRETE SURROUND MAY BE OMITTED WHERE FLUSHING POINT LOCATED IN CONCRETE PAVEMENT.



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Rev	Date	Description	By	Chk
D	18.12.25	ISSUED FOR APPROVAL	AB	SW
C	17.04.25	ISSUED FOR APPROVAL	AB	SW
B	29.01.25	90% ISSUE	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 5 10 15m
SCALE 1:250
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:250

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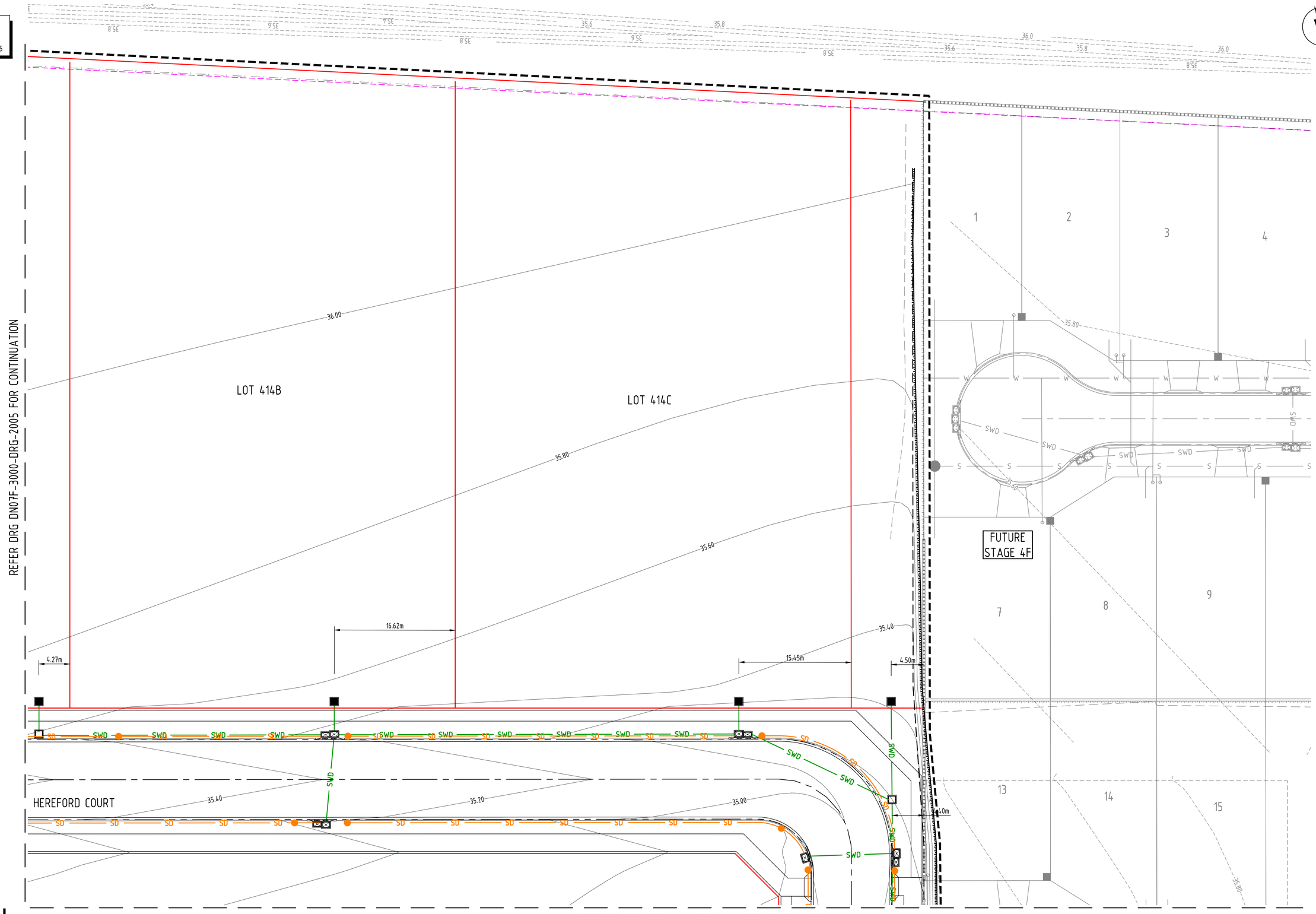
Title: SUBSOIL DRAINAGE LAYOUT PLAN
SHEET 1 OF 4

Drawing No.: DN07F-3000-DRG-2005
Revision: D

PLOT DATE: 12/19/2025 11:51 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-3000-DRG-2005_SUBSOIL DRAINAGE LAYOUT PLAN SHEET 1 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
FOR SUBSOIL NOTES AND LEGEND.
REFER TO DRG DN07F-3000-DRG-2005



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APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

SCALE 1:250
AT ORIGINAL SIZE (A1)

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By	Checked By	Approved By
HD	SW	SW
Project No.	Drawn By	Scale at A1
20172_014	AB	1:250

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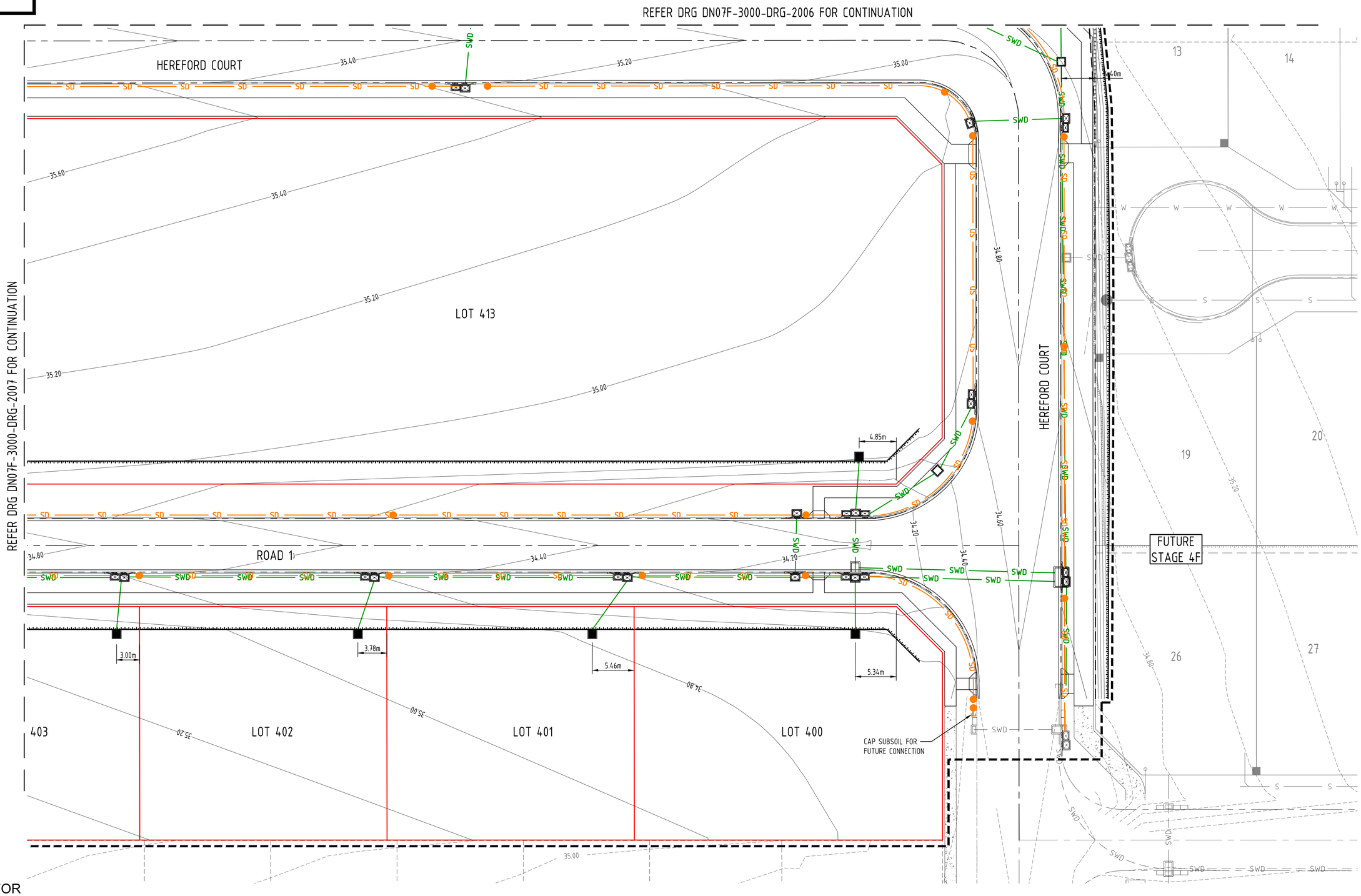
Title: SUBSOIL DRAINAGE LAYOUT PLAN
SHEET 2 OF 4

Drawing No.: DN07F-3000-DRG-2006
Revision: C

PLOT DATE: 12/19/2025 8:09 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2006_SUBSOIL DRAINAGE LAYOUT PLAN SHEET 2 OF 4.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
FOR SUBSOIL NOTES AND LEGEND.
REFER TO DRG
DN07F-3000-DRG-2005



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APPROVAL

Rev	Date	Description	By	Chk
C	18.12.25	ISSUED FOR APPROVAL	AB	SW
B	17.04.25	ISSUED FOR APPROVAL	AB	SW
A	02.07.24	90% ISSUE	DL	SW

0 10 20 30m
SCALE 1:500
AT ORIGINAL SIZE (A1)

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD
Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL
Status: APPROVAL
Designed By: HD
Checked By: SW
Approved By: SW
Project No.: 20172_014
Drawn By: AB
Scale at A1: 1:250

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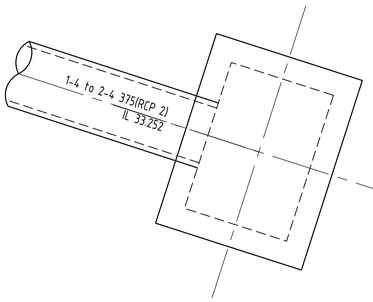
Title: SUBSOIL DRAINAGE LAYOUT PLAN
SHEET 4 OF 4

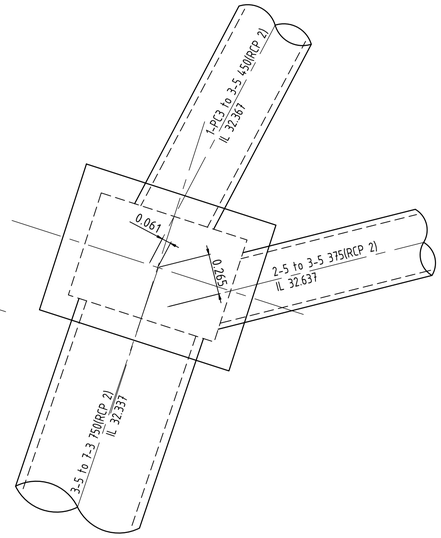
Drawing No.: DN07F-3000-DRG-2008
Revision: C

PLOT DATE: 12/19/2025 8:09 AM FILENAME: P:\20000\20172\014 – STAGE 7F\CVL\DWG\DN07F-3000-DRG-2008_SUBSOIL DRAINAGE LAYOUT PLAN SHEET 4 OF 4.DWG

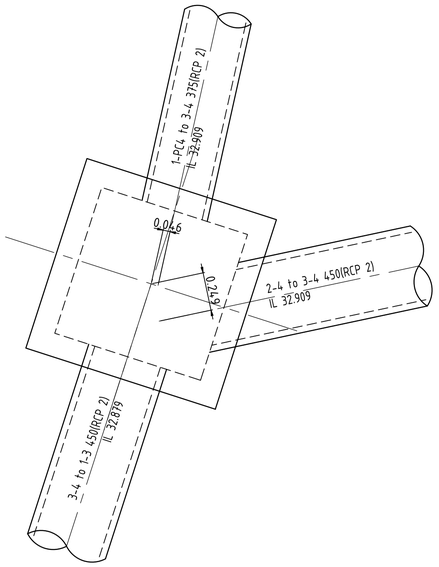
FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



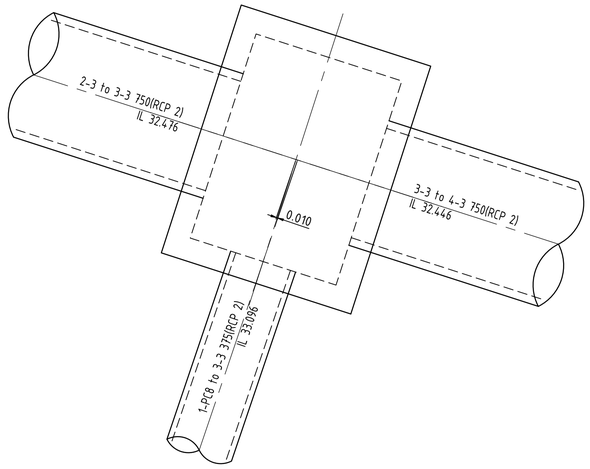
1-4 - 1000 x 700



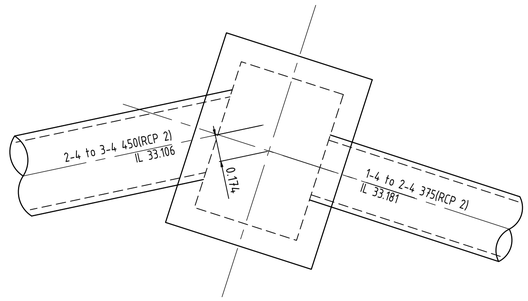
3-5 - 1000 x 700



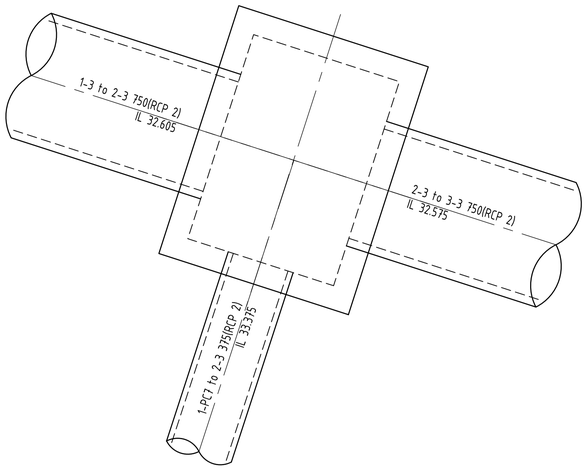
3-4 - 1000 x 1000



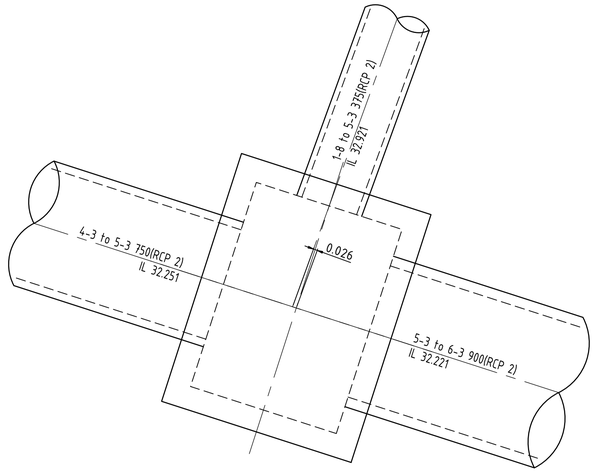
3-3 - 1000 x 1400



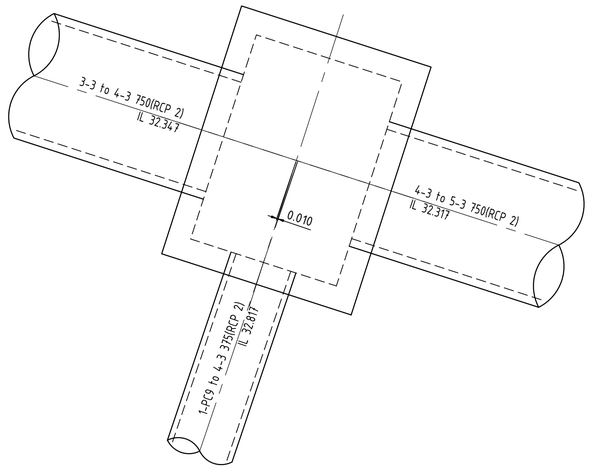
2-4 - 1000 x 700



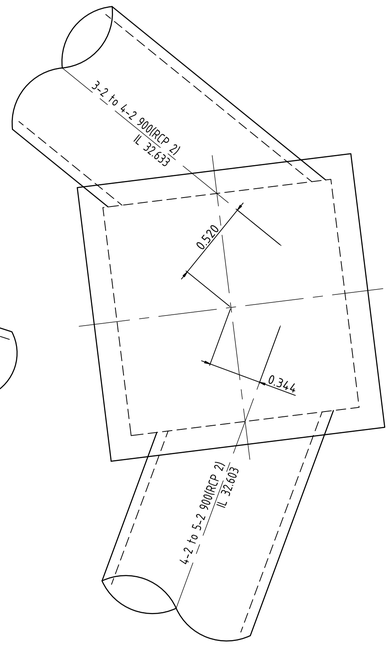
2-3 - 1000 x 1400



5-3 - 1000 x 1400



4-3 - 1000 x 1400



4-2 - 1500 x 1500

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APPROVAL

Rev	Date	Description	By	Chk
A	17.04.25	ISSUED FOR APPROVAL	AB	SW

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Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL | Status: APPROVAL

Designed By: HD | Checked By: SW | Approved By: SW

Project No.: 20172_014 | Drawn By: AB | Scale at A1: AS SHOWN

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Title: STORMWATER STRUCTURE
PIT DETAILS SHEET 1 OF 2

Drawing No.: DN07F-3000-DRG-2009 | Revision: A

PLOT DATE: 4/17/2025 12:12 PM FILENAME: J:\DWN\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2009_STORMWATER STRUCTURE PIT DETAILS SHEET 1 OF 2.DWG

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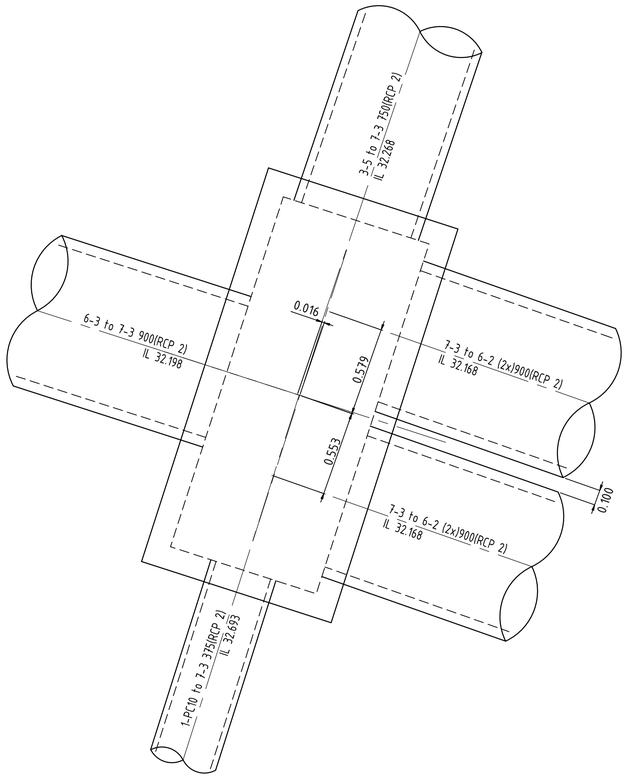

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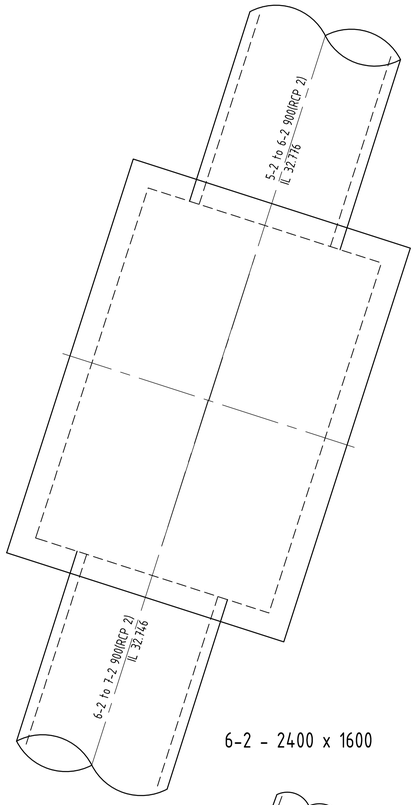

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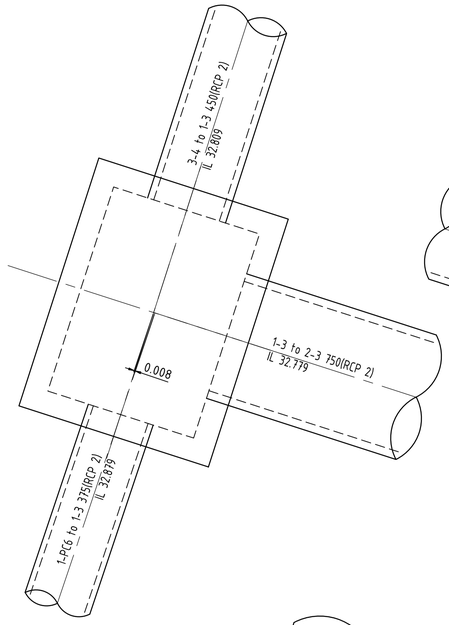

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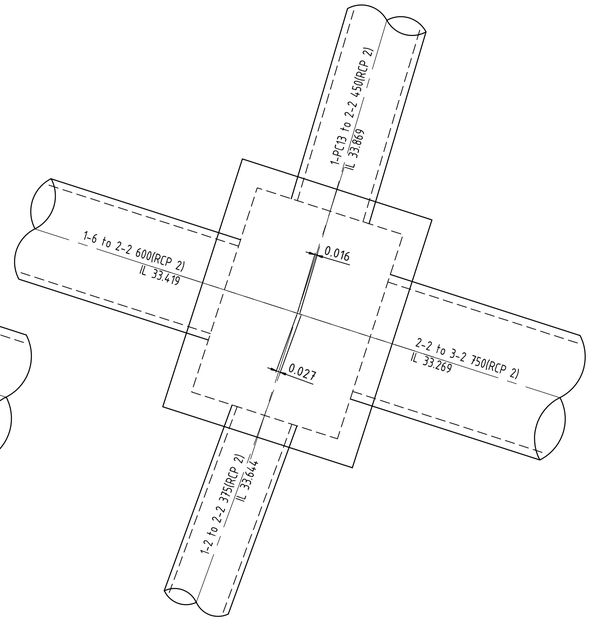

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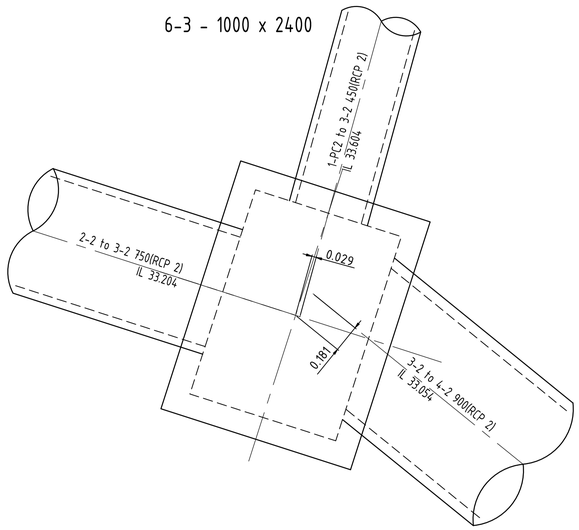
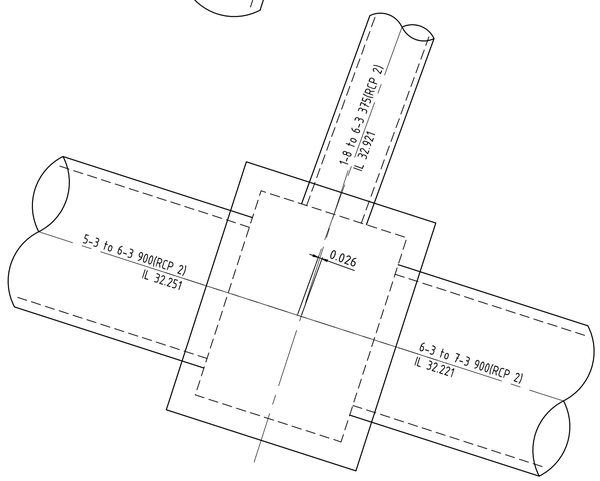
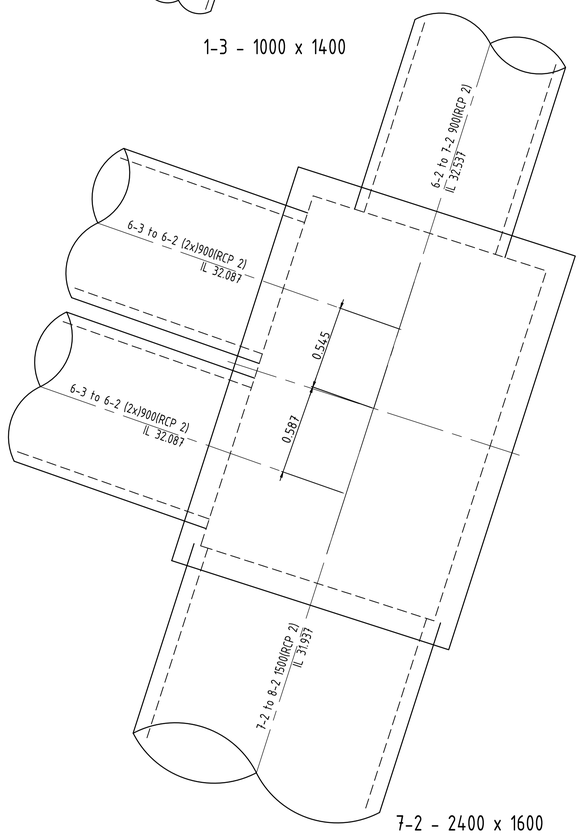


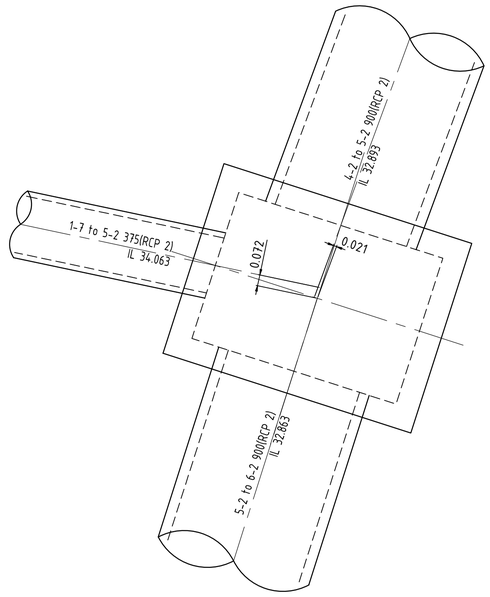
3-2 - 1000 x 1400



5-3 - 1000 x 1400



7-2 - 2400 x 1600



5-2 - 1000 x 1400

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
B	18.12.25	ISSUED FOR APPROVAL	AB	SW
A	17.04.25	ISSUED FOR APPROVAL	AB	SW

DCOH

NORTHCREST

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - STAGE 7F
BERRIMAH, NT 0828

Discipline: CIVIL

Status: APPROVAL

Designed By	Checked By	Approved By
HD	SW	SW

Project No.	Drawn By	Scale at A1
20172_014	AB	AS SHOWN

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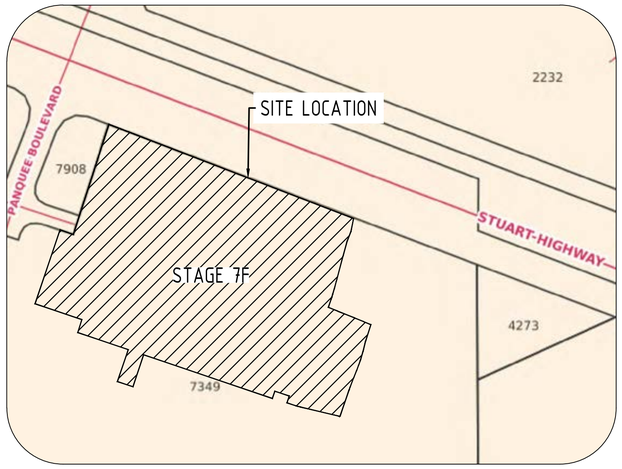
Title: STORMWATER STRUCTURE
PIT DETAILS SHEET 2 OF 2

Drawing No.: DN07F-3000-DRG-2010

Revision: B

PLOT DATE: 12/19/2025 11:52 AM FILENAME: P:\20000\20172\014 - STAGE 7F\CVL\DWG\DN07F-3000-DRG-2010_STORMWATER STRUCTURE PIT DETAILS SHEET 2 OF 2.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm



LOCALITY MAP
N.T.S

LEGEND

- LOT BOUNDARY
- LOT ADJACENT BOUNDARY
- LIMIT OF WORKS
- EXISTING SURFACE CONTOURS (12.0)
- DESIGN SURFACE CONTOURS (12.0)
- EXISTING EASEMENT BOUNDARY
- EXISTING FENCE
- EXISTING SEWER (RECORDS) (dS)
- EXISTING ELECTRICAL (E)
- EXISTING STORMWATER DRAINAGE (SWD)
- EXISTING SEWER (S)
- EXISTING SEWER STRUCTURE (S)
- EXISTING WATER (W)
- EXISTING WATER HYDRANT (W, H)
- EXISTING WATER VALVE (W)
- PROPOSED EASEMENT BOUNDARY
- PROPOSED STORWATER DRAINAGE (SWD)
- PROPOSED SEWER (S)
- PROPOSED SEWER STRUCTURE (S)
- PROPOSED WATER (W)
- PROPOSED FIRE HYDRANT (W, FH)
- PROPOSED WATER DICL (W)
- PROPOSED BATTER
- EXISTING ROAD
- EXISTING FOOTPATH
- PROPOSED KERB RAMP
- PROPOSED SIDE ENTRY PIT
- PROPOSED STORMWATER MANHOLE
- PROPOSED GRATED INLET PIT

SCHEDULE OF DRAWINGS

DRAWING NO.	DRAWING TITLE
DN07F-4000-DRG-3000	STAGE 7F NORTHCREST BERRIMAH WATER DRAWING SCHEDULE & NOTES
DN07F-4000-DRG-3001	STAGE 7F NORTHCREST BERRIMAHWATER NOTES & DETAILS
DN07F-4000-DRG-3002	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 1 OF 4
DN07F-4000-DRG-3003	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 2 OF 4
DN07F-4000-DRG-3004	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 3 OF 4
DN07F-4000-DRG-3005	STAGE 7F NORTHCREST BERRIMAH WATER LAYOUT PLAN SHEET 4 OF 4
DN07F-4000-DRG-3006	STAGE 7F NORTHCREST BERRIMAH WATER LONGITUDINAL SECTION
~~DN07F-4000-DRG-3007~~	~~STAGE 7F NORTHCREST BERRIMAH WATER LONGITUDINAL SECTION SHEET 2 OF 2~~

STANDARD DRAWINGS

DRAWING NO.	DRAWING TITLE
W1-1-04B	SERVICES DN50 WATER SERVICE - COPPER MEDIUM & HIGH HAZARD
W1-1-16	SERVICES DN100-300 WATER MAIN TYPICAL DETAILS - BRANCH OFF MAINS
W1-1-24	SERVICES PROPERTY CONNECTION DN100/DN150
W1-1-29	SERVICES DN25 WATER SERVICE - COPPER DN20 METERS FOR RESIDENTIAL DUPLEX - LOW HAZARD
W1-1-33	SERVICES PROPERTY CONNECTIONS THRUST/DIRECTIONAL DRILLING UNDER ROAD
W1-2-13C	AIR RELEASE HYDRANT & SCOUR HYDRANT SECTIONS

PERMISSION TO USE FOR CONSTRUCTION PURPOSES ONLY
SIGNED _____ DATE_____
ON BEHALF OF WATER SERVICES FOR THE INCORPORATION
INTO POWER AND WATER CORPORATION'S NETWORK.
This permission to use this approved design is given on the Basis that the developer and/or consultant is not absolved From full responsibility for the correctness and accuracy or Of the design and/or documents so associated.

This drawing is valid for 2 years from the date of signing

DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER
PWC ACCREDITATION CODE: DESCERTBL69
DATE: 18.12.25 SIGNATURE: .....

EP ALLOCATION

ZONE	ALLOWANCE (EP)	LOTS/UNITS	AREA (ha)	POPULATION ALLOCATION TOTAL
MD	45 EP\ha	5	0.578	26.01
HR	280 EP\ha	4	1.892	529.87
SHOPPING CENTER	280 EP\ha	1	1.422	398.16
POS	80 EP\ha	2	0.324	25.92
TOTAL				1113.41

ABBREVIATION

AC	ACCESS CHAMBER
A/G	ABOVE GROUND
BM	BENCH MARK
DE	WATERMAIN DEAD END
DICL	DUCTILE IRON CEMENT LINED
DN	NOMINAL BORE
D/S	DOWNSTREAM
EW	ENDWALL
FH	FIRE HYDRANT
FL	FLANGED JOINT
FSL	FINISHED SURFACE LEVEL
HD	HEAVY DUTY
HW	HEADWALL
GIP	GRATED INLET PIT
GP	GUIDE POST
GPT	GROSS POLLUTANT TRAP
IL	INVERT LEVEL
INCL	INCLUSIVE
IP	INTERSECTION POINT
LBP	LETTER BOX PIT
LD	LIGHT DUTY
MH	MAINTENANCE HOLE
MMDD	MAXIMUM MODIFIED DRY DENSITY
MS	MAINTENANCE SHAFT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OUD	OPEN UNLINED DRAIN
PP	POWER POLE
PVC	uPVC PIPEWORK
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RRJ	RUBBER RING JOINT
SEP	SIDE ENTRY PIT
SL	SURFACE LEVEL
SO	SOCKET
SP	SPIGOT
STN	SURVEY STATION
SV	SLUICE VALVE
TC	TANGENT TO CURVE
TMS	TERMINAL MAINTENANCE SHAFT
TP	TANGENT POINT
TPIT	TELSTRA PIT
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U/S	UPSTREAM

POWER AND WATER STANDARD NOTES

GENERAL

WS.1. CONSTRUCTION OF THE WATER AND SEWERAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST AMENDMENT OF THE APPROVED PROJECT DRAWINGS AND SPECIFICATION AND THE POWER AND WATER CONNECTION CODE.

WS.2. DRAWINGS MUST BE SIGNED AS 'APPROVED FOR CONSTRUCTION' BY POWER AND WATER PRIOR TO COMMENCING WORKS.

WS.3. THE DEVELOPER MUST SUBMIT THE "DEVELOPMENT WORK PERMIT" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF WORKS. THE DEVELOPER MUST CONFIRM WITH POWER AND WATER IF A MEETING IS REQUIRED PRIOR TO COMMENCEMENT OR SITE WORKS.

WS.4. PRIOR TO COMMENCEMENT OF WORKS, THE CONSTRUCTOR MUST CHECK THE LOCATION OF ALL UNDERGROUND SERVICES, CONFIRM FINISHED SURFACE LEVELS, CHECK THE MATEIRAL, DIAMETER ALIGNMENT, LEVEL AND LOCATION OF EXISTING PIPEWORK AT THE CONNECTION POINTS. IT IS NOT GUARANTEED THAT ALL SERVICES HAVE BEEN SHOWN ON THE DRAWINGS.

WS.5. CHANGES REQUESTED BY ANY PARTY TO THE DESIGN OF THE WORKS DURING ANY STAGE OF THE DEVELOPMENT MUST BE ENDORSED BY THE DESIGNER/CERTIFIER WITH AMENDED DRAWINGS SUBMITTED TO POWER AND WATER FOR APPROVAL PRIOR TO THE CHANGE BEING CARRIED OUT.

WS.6. ALL EXISTING PROPERTY SERVICES ARE TO REMAIN IN SERVICE UNTIL THE CONSTRUCTION OF THE NEW SERVICE IS COMPLETED TO THE SATISFACTION OF POWER AND WATER.

WS.7. ALL LEVELS GIVEN ARE TO AUSTRALIAN HEIGHT DATUM (AHD) IN METRES TO THREE DECIMAL PLACES. PROJECTION SHALL BE BASED ON MGA94 MAP GRID OF AUSTRALIA ZONE 52 OR 53 COORDINATE SYSTEM.

WS.8. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL CHAINAGES AND LEVELS IN METRES UNLESS SHOWN OTHERWISE.

EXCAVATION AND BACKFILLING

WS.9. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITY PRIOR TO ANY EXCAVATION. WHERE APPLICABLE, THE CONTRACTOR MUST SEEK A WRITTEN APPROVAL FROM THE LAND OWNER TO ACCESS AND CONSTRUCT WITHIN THEIR PROPERTY. ALL APPROVALS AND PERMITS MUST BE SUBMITTED TO POWER AND WATER AT LEAST SEVEN (7) DAYS PRIOR TO EXCAVATION WORKS.

WS.10. MINIMUM COVER TO PIPE IS 750mm IN TRAFFICABLE AREAS, 600mm IN OTHER AREAS. 1500mm COVER REQUIRED FOR THRUST BORING UNDER ROAD.

WS.11. EMBEDMENT TYPE FOR ALL PIPES MUST BE TYPE 2A OR 2B WRAPPED IN GEOTEXTILE UNLESS NOTED OTHERWISE. ALL OTHER EMBEDMENT TYPES MUST BE ENDORSED BY THE CERTIFIER WITH SUPPORTING GEOTECHNICAL INVESTIGATION, AND APPROVED BY POWER AND WATER.

WS.12. WHEN EMBEDMENT TYPE CHANGES, A VERTICAL GEOTEXTILE BARRIER SHALL BE INSERTED BETWEEN THE EMBEDMENT TYPES.

WS.13. UNLESS NOTED OTHERWISE IN THE DRAWINGS:
A. USE GENERAL OR SELECTED BACKFILL FOR ROAD RESERVES AND GENERAL AREAS
B. USE 3% CEMENT STABILISED SAND FOR ROADWAYS, DRIVEWAYS AND TRAFFICABLE AREAS
C. USE 5% CEMENT STABILISED GRAVEL FOR OPEN UNLINED DRAIN CROSSINGS.

WS.14. REINSTATE ALL SURFACES UPON COMPLETION OF THE WORKS AS SPECIFIED OR TO MATCH EXISTING TO SATISFACTION OF THE RELEVANT AUTHORITY OR PERSONNEL.

LIVE CONNECTIONS

WS.15. ONLY AUTHORISED POWER AND WATER PERSONNEL ARE PERMITTED TO UNDERTAKE ANY WORKS; OPERATE AND PHYSICALLY ACCESS LIVE ASSETS. AT NO STAGE SHALL ANY OTHER PERSONS CARRY OUT WORK ON POWER AND WATER INFRASTRUCTURE.

WS.16. THE DEVELOPER IS RESPONSIBLE FOR ALL CONNECTION FEES AND CHARGES. THE DEVELOPER MUST SUBMIT THE "REQUEST FOR CONNECTIONS" FORM AND ALLOW FOR A MINIMUM OF TWENTY-ONE (21) DAYS FOR SCHEDULING CONNECTIONS. POWER AND WATER HAVE NO OBLIGATIONS IN AVAILABILITY FOR REQUESTED CONNECTION DATE AND THE DEVELOPER IS TO NEGOTIATE ALTERNATIVE DATES WITH POWER AND WATER.

HANDOVER AND COMMISSIONING

WS.17. THE CERTIFIER MUST SUBMIT THE "HANDOVER REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INITIAL HANDOVER INSPECTION DATE.

WS.18. ALL IDENTIFIED DEFECTS MUST BE RECTIFIED BY THE DEVELOPER WITHIN FOURTEEN DAYS (14) OF INITIAL HANDOVER DATE. A FINAL HANDOVER INSPECTION WITH POWER AND WATER MUST BE ARRANGED TO CONFIRM RECTIFICATION OF OUTSTANDING DEFECTS.

WS.19. COMMISSIONING OF GIFTED ASSET WORKS IS UNDERTAKEN BY POWER AND WATER AFTER SUCCESSFUL HANDOVER OF ASSET, RECTIFICATION OF ALL OUTSTANDING DEFECTS AND COMPLETION OF ALL LIVE CONNECTIONS TO EXISTING MAINS.

CLEARANCE, DEFECTS AND LIABILITY PERIOD

WS.20. THE DEVELOPER MUST SUBMIT THE "CLEARANCE REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AND ALLOW A MINIMUM OF FOURTEEN (14) DAYS TO OBTAIN DEVELOPMENT PERMIT CLEARANCE. ALLOW FOR AN ADDITIONAL FOURTEEN (14) DAYS TO RECTIFY ALL OUTSTANDING DEFECTS AND ISSUES.

WS.21. THE DEFECTS AND LIABILITY PERIOD OF THE ASSET WILL COMMENCE ON THE DATE WHEN DEVELOPMENT CLEARANCE WAS ISSUED BY POWER AND WATER OR DATE OF FINAL ACCEPTANCE OF ASSET.

WS.22. ALL EXTENSIONS AND SUBDIVISIONS ARE SUBJECT TO TWENTY FOUR (24) MONTH DEFECT AND LIABILITY PERIOD. ALL BUILDING DEVELOPMENTS ARE SUBJECT TO TWELVE (12) MONTH DEFECT AND LIABILITY PERIOD.

WS.23. THE DEVELOPER IS FULLY RESPONSIBLE FOR ALL COSTS TO RECTIFY DEFECTS, REPAIR AND EMERGENCY WORKS WITHIN THIS PERIOD. SUCH WORKS WILL RESULT IN AN EXTENDED DEFECTS AND LIABILITY PERIOD OF FIVE (5) YEARS.

WS.24. THE DEVELOPER MUST SCHEDULE AN OFF-MAINTENANCE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INSPECTION DATE. POWER AND WATER WILL TAKE FULL RESPONSIBILITY OF ASSET AFTER ALL DEFECTS HAVE BEEN RECTIFIED AND ALL ASSOCIATED PAYMENT TO REPAIR AND EMERGENCY WORKS HAVE BEEN PAID BY THE DEVELOPER.

WATER (IN CONJUNCTION WITH POWER AND WATER STANDARD DRAWINGS)

W.1. WATER PIPES MUST BE BURIED PVC-M SERIES 2 CLASS 16, WITH DUCTILE IRON (DI) FITTINGS, UNLESS NOTED OTHERWISE.

W.2. ALL DUCTILE IRON CEMENT LINED (DICL) PIPES SHALL BE CLASS PN16 FLANGED OR CLASS 35 RUBBER RING JOINTED (RRJ). ALL BURIED DICL PIPES AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE SLEEVING. MARKING ON PIPES SHALL FACE UPWARDS.

W.3. PIPES UNDER ROAD PAVEMENT, OPEN DRAIN AND DRAINAGE STRUCTURES MUST BE DICL CLASS 16 FLANGED.

W.4. PROVIDE ANCHORAGE FOR ALL VALVES, REDUCERS, AND VERTICAL BENDS. PROVIDE THRUST BLOCKS FOR ALL HORIZONTAL BENDS, TEES AND END CAPS.

W.5. ALL SLUICE VALVES MUST BE RESILIENT SEATED FLANGED CLASS 16 WITH RAISED FLANGES, UNLESS NOTED OTHERWISE.

W.6. ALL FLANGES MUST BE CLASS 16 RAISED TYPE COMPLYING WITH AS 4087 FIGURE B5 FOR DICL AND FIGURE B7 FOR MILD STEEL CEMENT LINED (MSCL), UNLESS NOTED OTHERWISE.

W.7. WATER MAINS MUST BE OFFSET FROM PROPERTY BOUNDARIES A DISTANCE OF 2.4m IN ROAD RESERVES AND 1.5m IN PRIVATE PROPERTY, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

W.8. THE COATING ON THE FITTINGS MUST BE FULLY PROTECTED BY A FELT OR GEOTEXTILE BARRIER WHEN THE THRUST BLOCK IS POURED AND THRUST BLOCKS MUST NOT OVERLAP THE JOINT.

W.9. WATERMAINS MUST BE LAID OVER STORM WATER, SEWER, NON-POTABLE AND RECYCLED WATER PIPES, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

W.10. NO DEFLECTION AT PVC SOCKET JOINTS ARE PERMITTED. SO-SO DI CONNECTORS (MAXIMUM OF TWO (2) DEGREES) OR DI BENDS MUST BE USED TO ACHIEVE DEFLECTIONS ON PVC PIPES.

W.11. MARKING TAPE COLOURED GREEN AND MARKED 'WATER MAIN' SHALL BE LAID CONTINUOUSLY AND LOCATED 300mm ABOVE THE WATER MAIN.

W.12. THE MINIMUM HORIZONTAL CLEARANCE BETWEEN EXISTING SERVICES MUST BE 600mm FOR NEW MAINS UP TO AND EQUAL TO DN200 AND 1000mm FOR NEW MAINS LARGER THAN DN200.

W.13. THE MINIMUM VERTICAL CLEARANCE BETWEEN EXISTING SERVICES MUST BE 300mm FOR NEW MAINS UP TO AND EQUAL TO DN200 AND 500mm FOR NEW MAINS LARGER THAN DN200.

W.14. THE TESTING OF WATER MAINS MUST BE ACCORDING TO POWER AND WATER'S TEST PROCEDURES GUIDELINES.

MINIMUM REQUIRED INSPECTIONS BY HYDRAULIC CERTIFIER - WATER

PRE-START MEETING
THE CERTIFYING ENGINEER TO ARRANGE PRE-START MEETING WITH POWER WATER REPRESENTATIVE AND PLUMBING CONTRACTOR.

INSPECTION 1
INSPECT EXCAVATED TRENCH AND VERIFY EMBEDMENT TYPE REQUIRED FOR THE SUBSOIL CONDITION. OTHER EMBEDMENT TYPES MUST BE ENDORSED WITH SUPPORTING GEOTECHNICAL REPORT AND APPROVED BY POWER AND WATER.

INSPECTION 2
VERIFY ALL CONNECTIONS ARE COMPLETED AND ISOLATED FROM EXISTING.

INSPECTION 3
VERIFY ALL PIPEWORK AND THRUST RESTRAINING PRODUCTS ARE CONSTRUCTED TO DRAWINGS AND SPECIFICATIONS.

INSPECTION 4
WITNESS OF DISINFECTION, FLUSHING AND WATER SAMPLING. VERIFY PRESSURE, DISINFECTION AND BACTERIOLOGICAL TESTS HAVE PASSED.

INSPECTION 5
VERIFY ALL AS CONSTRUCTED INFORMATION. CONDUCT HANDOVER WITH POWER AND WATER.

INSPECTION 6
VERIFY ALL OUTSTANDING DEFECTS ARE COMPLETED.

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3000**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
BEWARE OF SERVICES
THE LOCATIONS OF ALL EXISTING SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	NTS
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
WATER DRAWING SCHEDULE & NOTES

A1

DRAWING NUMBER DN07F-4000-DRG-3000

C
AMDT

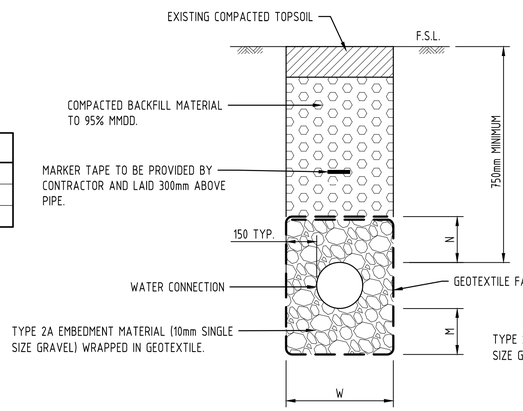
CAD PRODUCT - DO NOT AMEND MANUALLY

WATER NOTES:

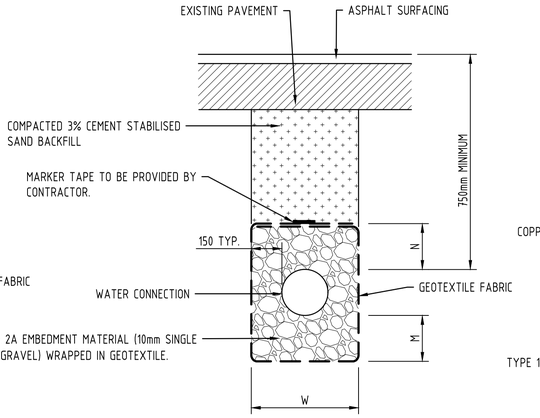
1. REFER DRG DN07F-4000-DRG-3000 FOR STANDARD NOTES.
2. ALL DIMENSIONS ARE IN MILLIMETRES U.NO.
3. BENCH AND SHORE TRENCHES WHERE NECESSARY TO CONFORM TO SAFETY REQUIREMENTS OR AS DIRECTED BY A COMPETENT GEOTECHNICAL ENGINEER
4. WATER SERVICE CONNECTIONS TO LOTS ≥ 800m^2 TO BE DN100 IN ACCORDANCE WITH PWC STD DRG W1-1-24 UNLESS NOTED OTHERWISE ON PLANS.
5. PROPERTY WATER SERVICE CONNECTION BRANCH CONNECTION TO BE IN ACCORDANCE WITH PWC STD DRG W1-1-16.
6. DICL PIPE SHALL NOT BE CUT ON-SITE.
7. THRUST BORING/DIRECTIONAL DRILLING UNDER EXISTING ROADWAYS TO BE IN ACCORDANCE WITH PWC STD DRG W1-1-33
8. ALL WORKS TO LIVE ASSETS TO BE COMPLETED BY PWC AT DEVELOPERS EXPENSE.
9. POLYETHYLENE SLEEVING OF DICL PIPES AND FITTINGS TO BE IN ACCORDANCE WITH PWC STD DRGS W1-1-24.
10. GENERAL FILL TO BE INORGANIC MATERIAL WITH MAX PARTICLE SIZE OF 75mm AND PLASTICITY INDEX NOT EXCEEDING 15%. THE FIRST 400mm DEPTH OF BACKFILL ABOVE THE PIPE OVERLAY SHALL HAVE 100% PASS OF A 50mm SIEVE. COMPACT BACKFILL TO MIN 45% MMDD.

TRENCH WIDTHS	
PIPE SIZE (mm)	W (mm)
100-150	450
200-300	600

TYPE 2 EMBEDMENT		
PIPE SIZE DN (mm)	M (mm)	N (mm)
20-50	100	150
150-600	150	150



TRENCH DETAIL - TYPE B
(STANDARD - UNDER VERGE)
N.T.S.



TRENCH DETAIL - TYPE C
(STANDARD - UNDER ROAD PAVEMENTS)
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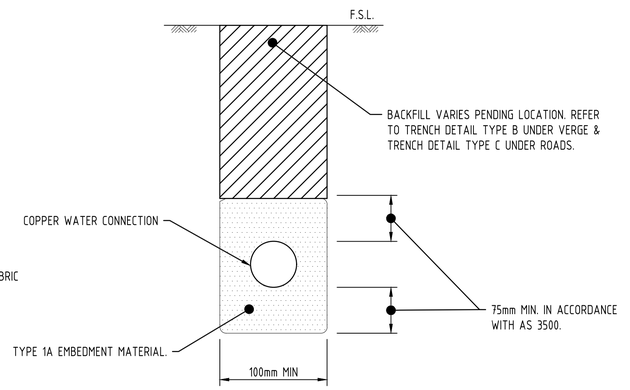
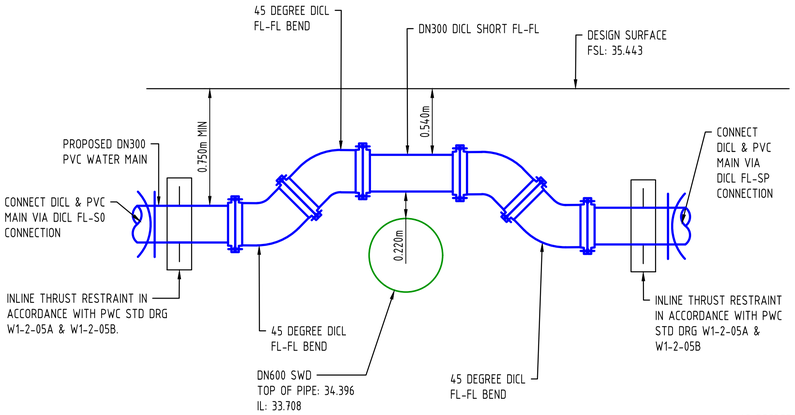
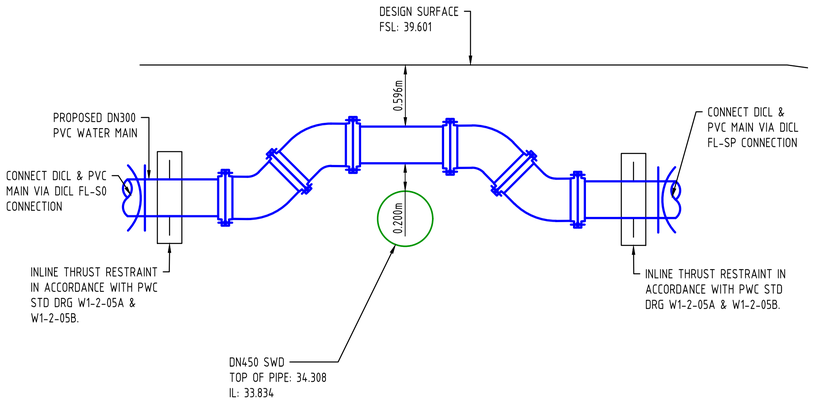


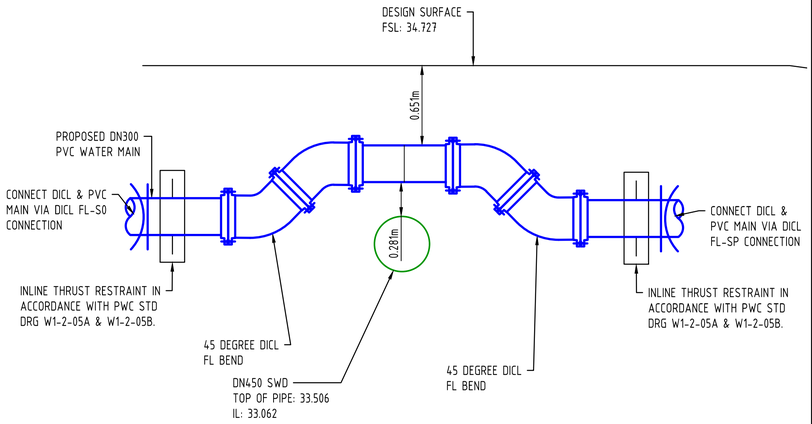
TRENCH DETAIL - WATER PROPERTY CONNECTION
(STANDARD - UNDER VERGE)
N.T.S.



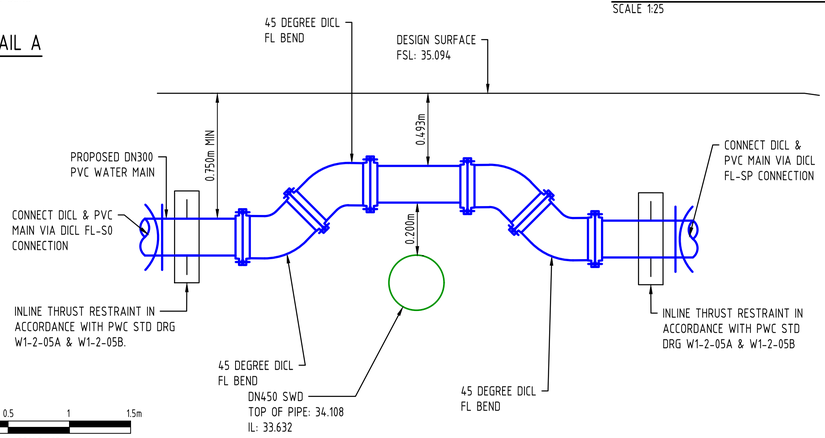
LOCAL DIVERSION DETAIL A
SCALE 1:25



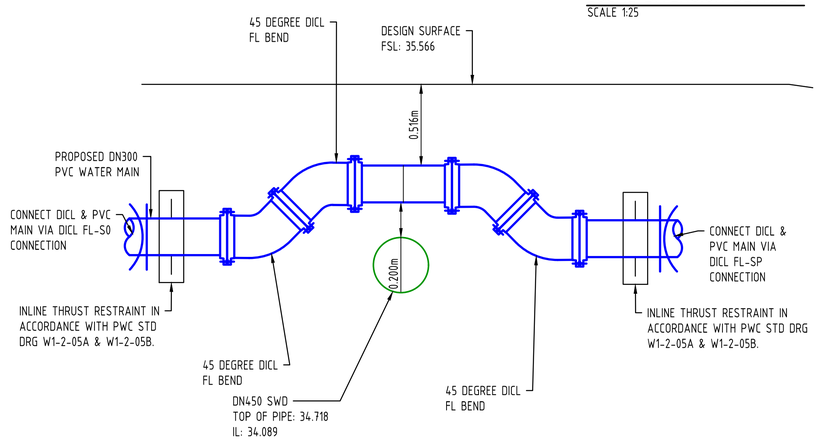
LOCAL DIVERSION DETAIL E
SCALE 1:25



LOCAL DIVERSION DETAIL C
SCALE 1:25



LOCAL DIVERSION DETAIL B
SCALE 1:25



LOCAL DIVERSION DETAIL D
SCALE 1:25

PERMISSION TO USE FOR CONSTRUCTION PURPOSES ONLY

SIGNED _____ DATE_____

ON BEHALF OF WATER SERVICES FOR THE INCORPORATION INTO POWER AND WATER CORPORATION'S NETWORK.

This permission to use this approved design is given on the Basis that the developer and/or consultant is not absolved From full responsibility for the correctness and accuracy or Of the design and/or documents so associated.

This drawing is valid for 2 years from the date of signing

DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

0 0.5 1 1.5m

SCALE 1:25

AT ORIGINAL SIZE (A1)

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3001**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
BEWARE OF SERVICES
THE LOCATIONS OF ALL EXISTING SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	AS SHOWN
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
WATER NOTES & DETAILS

A1

DRAWING NUMBER DN07F-4000-DRG-3001

C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-4000-DRG-3000 & DN07F-4000-DRG-3001.
2. FOR WATER LONGITUDINAL SECTIONS REFER TO DRGS. DN07F-4000-DRG-3006 & DN07F-4000-DRG-3007.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. PROPERTY CONNECTION TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRG W1-1-16 & W1-1-24.
5. ALL PROPERTY WATER SERVICE CONNECTIONS SHALL BE 20mm SIZE U.N.O.
6. PROPOSED NEW WATER CONNECTIONS TO BE DN100 PVC-M SERIES 2 PN16 UNLESS NOTED OTHERWISE.

FITTINGS TABLE	
ITEM NO.	DESCTIPTION
1	DN150 HYDRANT
2	DN150 x 150 TEE
3	DN150 45° HORIZONTAL BEND
4	DN300 90° HORIZONTAL BEND
5	DN300 x 150 TEE
6	DN300 HYDRANT
7	DN300 END CAP
8	THRUST BLOCK
9	ANCHOR BLOCK
10	DN150 STOP VALVE
11	DN300 STOP VALVE
12	DN300 x 300 TEE
13	DN300 TO DN225 REDUCER
14	DN225 STOP VALVE
15	DN225 90° HORIZONTAL BEND

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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

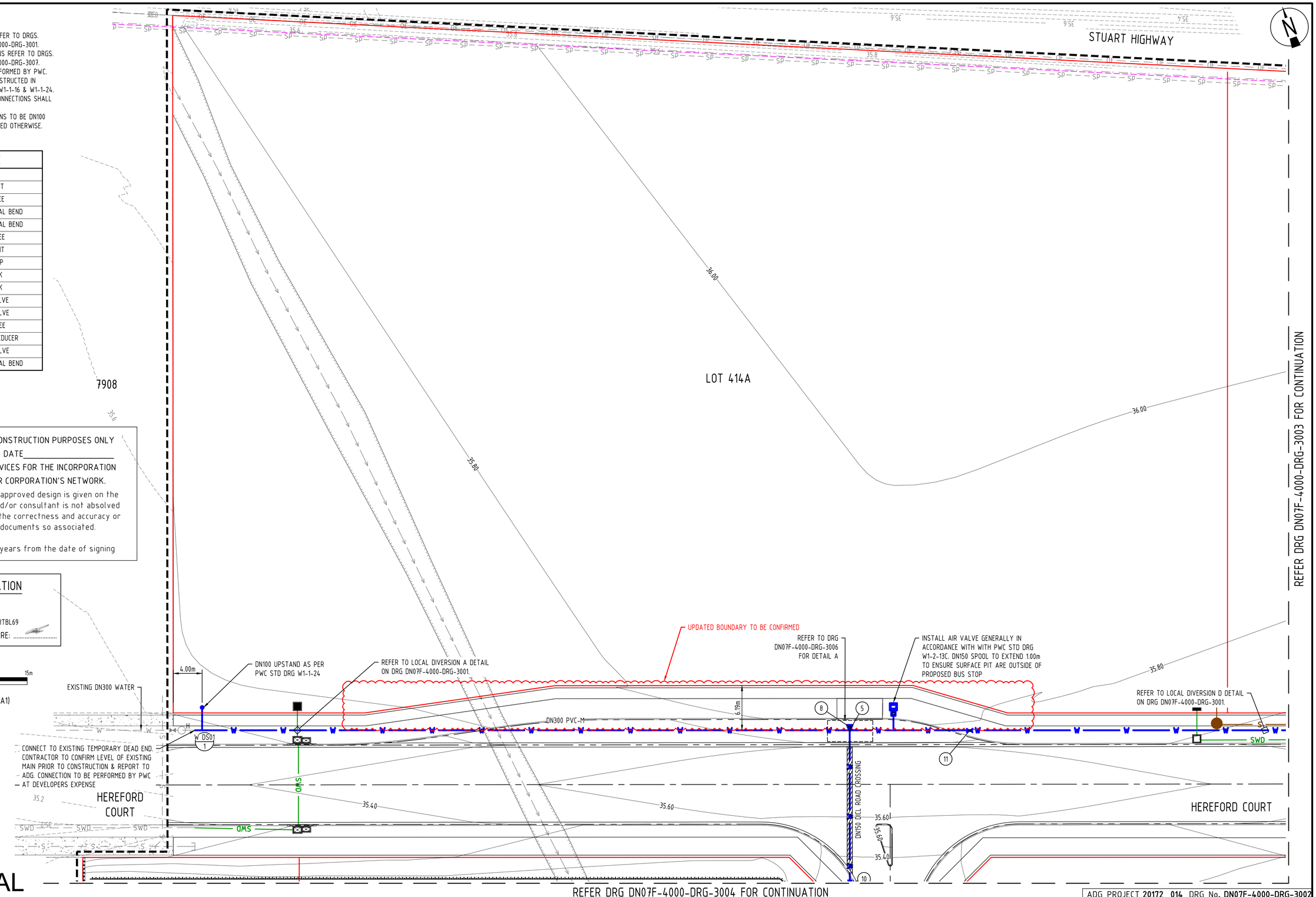
PWC ACCREDITATION CODE: DESCERTBL69

DATE: 17.04.25 SIGNATURE: .....

0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)



ISSUED FOR

APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3002**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
	AMENDMENTS				
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING

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PowerWater NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	17.04.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
WATER LAYOUT PLAN
SHEET 1 OF 4

A1

DRAWING NUMBER DN07F-4000-DRG-3002

B AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-4000-DRG-3000 & DN07F-4000-DRG-3001.
2. FOR WATER LONGITUDINAL SECTIONS REFER TO DRGS. DN07F-4000-DRG-3006 & DN07F-4000-DRG-3007.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. PROPERTY CONNECTION TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRG W1-1-16 & W1-1-24.
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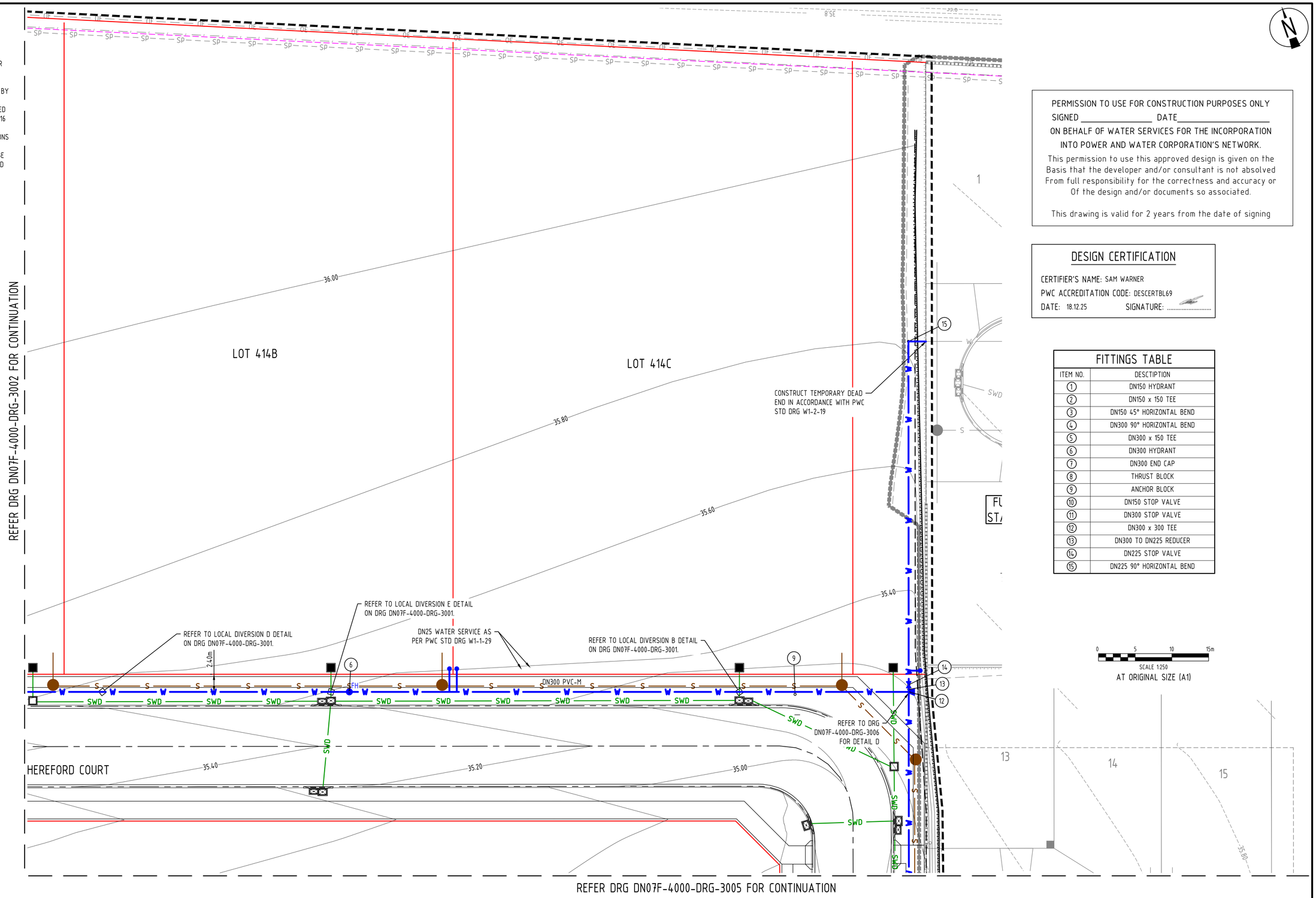

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CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

FITTINGS TABLE

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8	THRUST BLOCK
9	ANCHOR BLOCK
10	DN150 STOP VALVE
11	DN300 STOP VALVE
12	DN300 x 300 TEE
13	DN300 TO DN225 REDUCER
14	DN225 STOP VALVE
15	DN225 90° HORIZONTAL BEND

SCALE 1:250
AT ORIGINAL SIZE (A1)

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3003**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
WATER LAYOUT PLAN
SHEET 2 OF 4

A1

DRAWING NUMBER DN07F-4000-DRG-3003

C AMDT

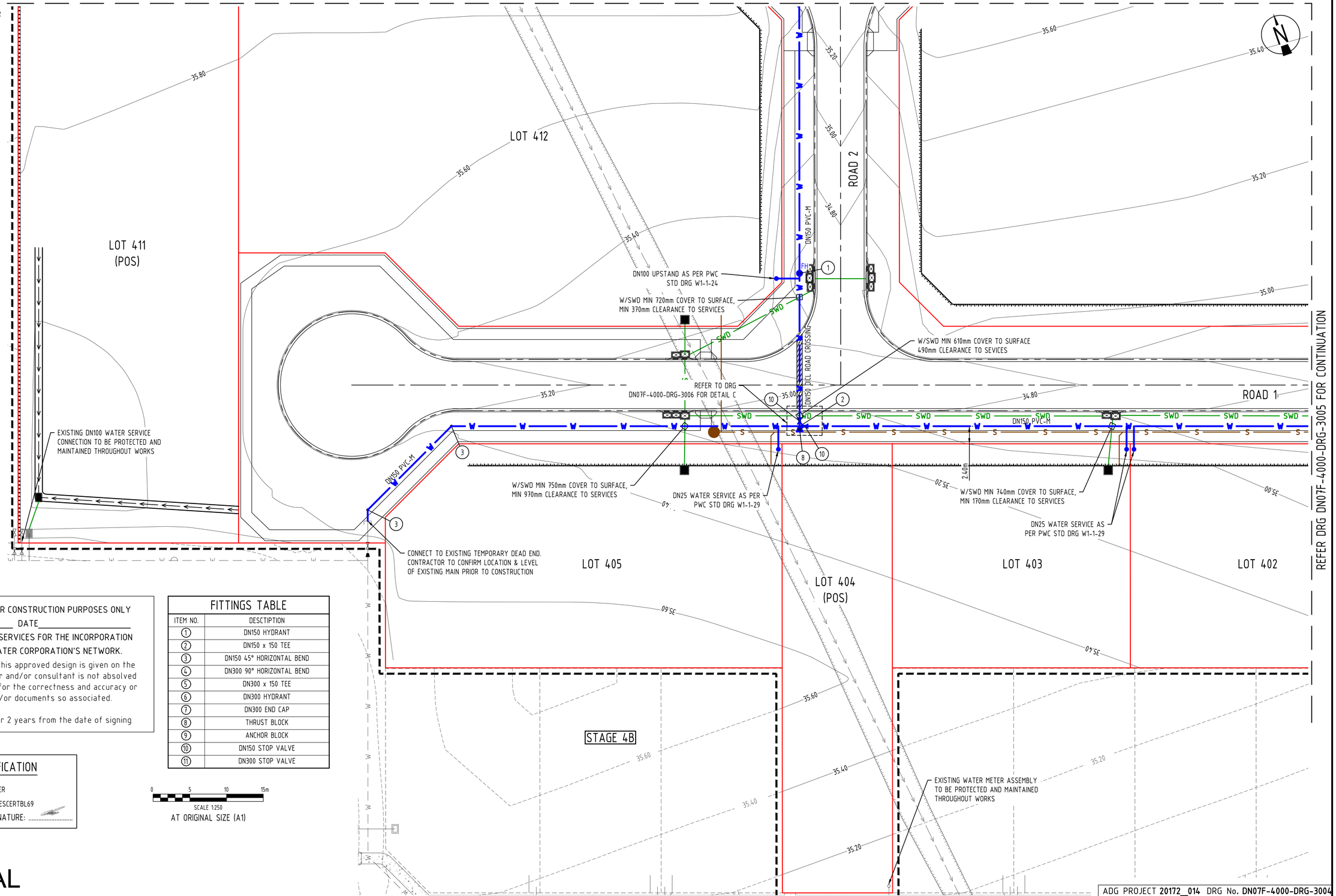
CAD PRODUCT - DO NOT AMEND MANUALLY

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-4000-DRG-3000 & DN07F-4000-DRG-3001.
2. FOR WATER LONGITUDINAL SECTIONS REFER TO DRGS. DN07F-4000-DRG-3006 & DN07F-4000-DRG-3007.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. PROPERTY CONNECTION TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRG W1-1-16 & W1-1-24.
5. ALL PROPERTY WATER SERVICE CONNECTIONS SHALL BE 20mm SIZE U.N.O.
6. PROPOSED NEW WATER CONNECTIONS TO BE DN100 PVC-M SERIES 2 PN16 UNLESS NOTED OTHERWISE.

REFER TO DRG DN07F-4000-DRG-3002 FOR CONTINUATION

REFER DRG DN07F-4000-DRG-3005 FOR CONTINUATION



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DATE: 17.04.25 SIGNATURE: .....

FITTINGS TABLE

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5	DN300 x 150 TEE
6	DN300 HYDRANT
7	DN300 END CAP
8	THRUST BLOCK
9	ANCHOR BLOCK
10	DN150 STOP VALVE
11	DN300 STOP VALVE

0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)

ISSUED FOR

APPROVAL

NO	DESCRIPTION	DRN	DATE	CKD	APPD
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	17.04.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
WATER LAYOUT PLAN
SHEET 3 OF 4

A1

DRAWING NUMBER DN07F-4000-DRG-3004

B AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3004**

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-4000-DRG-3000 & DN07F-4000-DRG-3001.
2. FOR WATER LONGITUDINAL SECTIONS REFER TO DRGS. DN07F-4000-DRG-3006 & DN07F-4000-DRG-3007.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. PROPERTY CONNECTION TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRG W1-1-16 & W1-1-24.
5. ALL PROPERTY WATER SERVICE CONNECTIONS SHALL BE 20mm SIZE U.N.O.
6. PROPOSED NEW WATER CONNECTIONS TO BE DN100 PVC-M SERIES 2 PN16 UNLESS NOTED OTHERWISE.

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0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)

FITTINGS TABLE	
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1	DN150 HYDRANT
2	DN150 x 150 TEE
3	DN150 45° HORIZONTAL BEND
4	DN300 90° HORIZONTAL BEND
5	DN300 x 150 TEE
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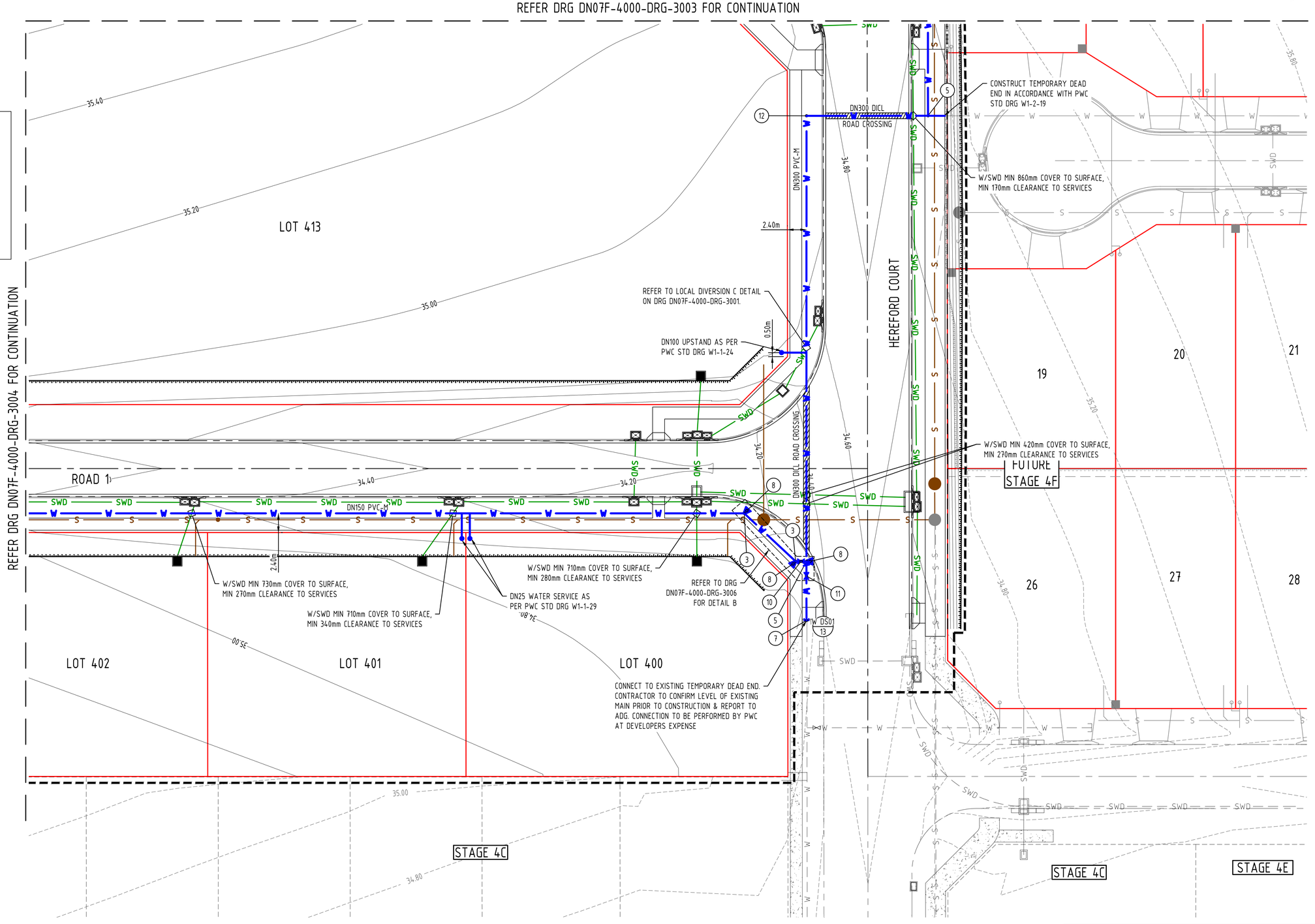
8	THRUST BLOCK
9	ANCHOR BLOCK
10	DN150 STOP VALVE
11	DN300 STOP VALVE
12	DN300 x 300 TEE
13	DN300 TO DN225 REDUCER
14	DN225 STOP VALVE
15	DN225 90° HORIZONTAL BEND



DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

ISSUED FOR

APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-4000-DRG-3005**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

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PowerWater NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

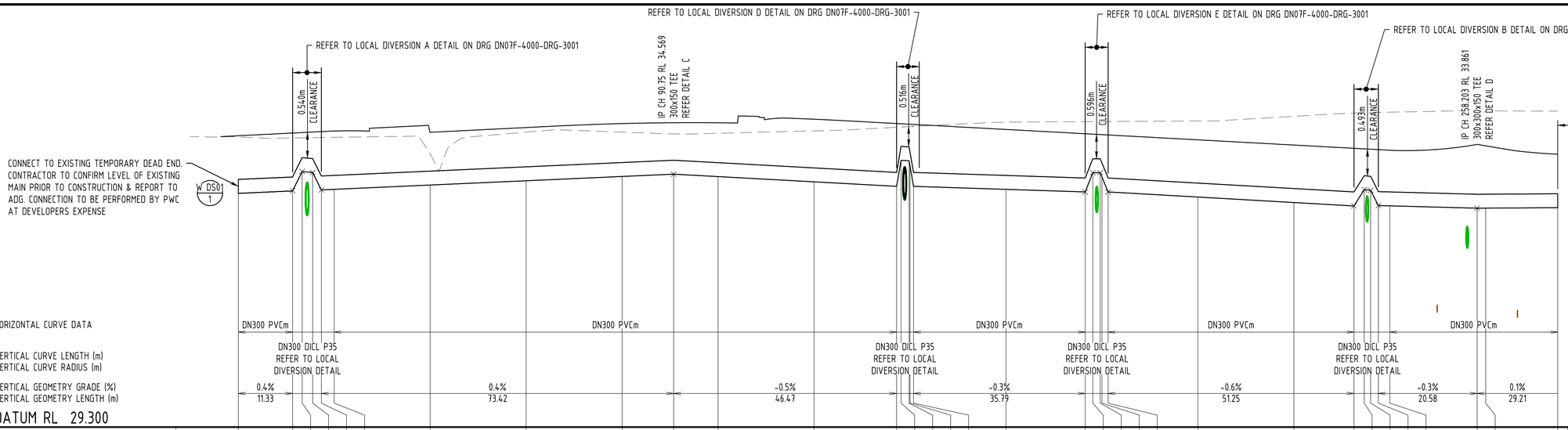
STAGE 7F NORTHCREST BERRIMAH
WATER LAYOUT PLAN
SHEET 4 OF 4

A1

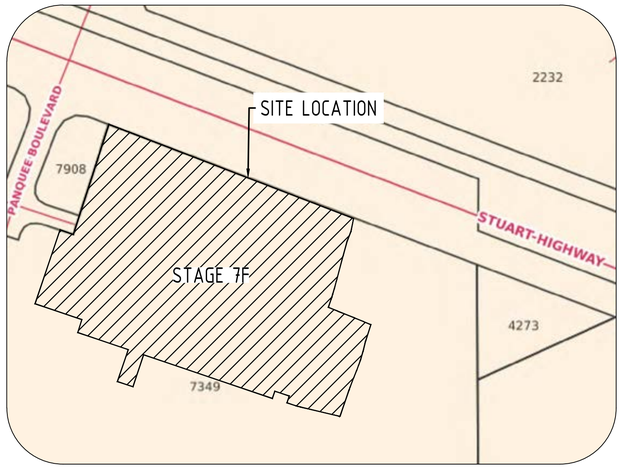
DRAWING NUMBER DN07F-4000-DRG-3005

CAD PRODUCT - DO NOT AMEND MANUALLY

C AMDT


REFER TO LOCAL DIVERSION A DETAIL ON DRG DN07F-4000-DRG-3001
REFER TO LOCAL DIVERSION D DETAIL ON DRG DN07F-4000-DRG-3001
REFER TO LOCAL DIVERSION E DETAIL ON DRG DN07F-4000-DRG-3001
REFER TO LOCAL DIVERSION B DETAIL ON DRG DN07F-4000-DRG-3001
0.540m CLEARANCE
IP CH 90.75 RL 34.569 300x150 TEE REFER DETAIL C
0.516m CLEARANCE
0.596m CLEARANCE
0.493m CLEARANCE
IP CH 258.203 RL 33.861 300x300x150 TEE REFER DETAIL D
FOR CONTINUATION REFER TO LONGITUDINAL BELOW
CONNECT TO EXISTING TEMPORARY DEAD END. CONTRACTOR TO CONFIRM LEVEL OF EXISTING MAIN PRIOR TO CONSTRUCTION & REPORT TO ADG. CONNECTION TO BE PERFORMED BY PWC AT DEVELOPERS EXPENSE
W DS01 1
HORIZONTAL CURVE DATA
VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)
DN300 PVCm
DN300 DICL P35 REFER TO LOCAL DIVERSION DETAIL
0.4% 11.33
0.4% 73.42
-0.5% 46.47
-0.3% 35.79
-0.6% 51.25
-0.3% 20.58
0.1% 29.21
DATUM RL 29.300

| | | |



LOCALITY MAP
N.T.S

LEGEND

	SITE BOUNDARY
	LIMIT OF WORKS
12.0	EXISTING SURFACE CONTOURS
12.0	DESIGN SURFACE CONTOURS
	EXISTING EASEMENT BOUNDARY
	EXISTING FENCE
dS	EXISTING SEWER (RECORDS)
E	EXISTING ELECTRICAL
SWD	EXISTING STORMWATER DRAINAGE
S	EXISTING SEWER
S	EXISTING SEWER STRUCTURE
W	EXISTING WATER
	PROPOSED EASEMENT BOUNDARY
SWD	PROPOSED STORWATER DRAINAGE
S	PROPOSED SEWER
S	PROPOSED SEWER STRUCTURE
W	PROPOSED WATER
	PROPOSED BATTER
	EXISTING ROAD
	EXISTING FOOTPATH
	PROPOSED KERB RAMP
	PROPOSED SIDE ENTRY PIT
	PROPOSED STORMWATER MANHOLE
	PROPOSED GRATED INLET PIT
	PROPOSED SEWER PROPERTY CONNECTION

SCHEDULE OF DRAWINGS

DRAWING NO.	DRAWING TITLE
DN07F-5000-DRG-4000	STAGE 7F NORTHCREST BERRIMAH SEWER DRAWING SCHEDULE & NOTES
DN07F-5000-DRG-4001	STAGE 7F NORTHCREST BERRIMAH SEWER NOTES & DETAILS
DN07F-5000-DRG-4002	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 1 OF 4
DN07F-5000-DRG-4003	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 2 OF 4
DN07F-5000-DRG-4004	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 3 OF 4
DN07F-5000-DRG-4005	STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 4 OF 4
DN07F-5000-DRG-4006	STAGE 7F NORTHCREST BERRIMAH SEWER LONGITUDINAL SECTION SHEET 1 OF 2
DN07F-5000-DRG-4007	STAGE 7F NORTHCREST BERRIMAH SEWER LONGITUDINAL SECTION SHEET 2 OF 2

STANDARD DRAWINGS

DRAWING NO.	DRAWING TITLE
W2-1-01	TYPE 1 SEWER CONNECTION DN150
W2-1-02	TYPE 2 SEWER CONNECTION DN150
W2-1-11	ACCESS CHAMBERS CONNECTION DN150 - DN225
W2-2-01A	ACCESS CHAMBERS CIRCULAR CHAMBERS (UP TO 6.0M DEEP)
W2-2-01D	ACCESS CHAMBERS NOTES FOR CONSTRUCTION
W2-2-02A	ACCESS CHAMBER PRECAST CHAMBER (UP TO 6.0m DEEP WITH MAINS LESS THAN DN450)
W2-2-03	ACCESS CHAMBERS EXTERNAL & INTERNAL DROPS TYPES 1-4
W2-2-06	ACCESS CHAMBERS IN-LINE GAS TRAP AND GAS TRAP ACCESS CHAMBER

EP ALLOCATION

ZONE	ALLOWANCE (EP)	LOTS/UNITS	AREA (ha)	POPULATION ALLOCATION TOTAL
MD	45 EP\ha	5	0.578	26.01
HR	280 EP\ha	4	1.892	529.87
SHOPPING CENTER	280 EP\ha	1	1.422	398.16
POS	80 EP\ha	2	0.324	25.92
TOTAL				1113.41

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CERTIFIER'S NAME: SAM WARNER
PWC ACCREDITATION CODE: DESCERTBL69
DATE: 18.12.25 SIGNATURE: .....

ABBREVIATION

AC	ACCESS CHAMBER
A/G	ABOVE GROUND
BM	BENCH MARK
DE	WATERMAIN DEAD END
DICL	DUCTILE IRON CEMENT LINED
DN	NOMINAL BORE
D/S	DOWNSTREAM
EW	ENDWALL
FH	FIRE HYDRANT
FL	FLANGED JOINT
FSL	FINISHED SURFACE LEVEL
HD	HEAVY DUTY
HW	HEADWALL
GIP	GRATED INLET PIT
GP	GUIDE POST
GPT	GROSS POLLUTANT TRAP
IL	INVERT LEVEL
INCL	INCLUSIVE
IP	INTERSECTION POINT
LBP	LETTER BOX PIT
LD	LIGHT DUTY
MH	MAINTENANCE HOLE
MMDD	MAXIMUM MODIFIED DRY DENSITY
MS	MAINTENANCE SHAFT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OUD	OPEN UNLINED DRAIN
PP	POWER POLE
PVC	uPVC PIPEWORK
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RRJ	RUBBER RING JOINT
SEP	SIDE ENTRY PIT
SL	SURFACE LEVEL
SO	SOCKET
SP	SPIGOT
STN	SURVEY STATION
SV	SLUICE VALVE
TC	TANGENT TO CURVE
TMS	TERMINAL MAINTENANCE SHAFT
TP	TANGENT POINT
TPIT	TELSTRA PIT
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U/S	UPSTREAM

POWER AND WATER STANDARD NOTES

GENERAL

WS.1. CONSTRUCTION OF THE WATER AND SEWERAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST AMENDMENT OF THE APPROVED PROJECT DRAWINGS AND SPECIFICATION AND THE POWER AND WATER CONNECTION CODE.

WS.2. DRAWINGS MUST BE SIGNED AS 'APPROVED FOR CONSTRUCTION' BY POWER AND WATER PRIOR TO COMMENCING WORKS.

WS.3. THE DEVELOPER MUST SUBMIT THE "DEVELOPMENT WORK PERMIT" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF WORKS. THE DEVELOPER MUST CONFIRM WITH POWER AND WATER IF A MEETING IS REQUIRED PRIOR TO COMMENCEMENT OR SITE WORKS.

WS.4. PRIOR TO COMMENCEMENT OF WORKS, THE CONSTRUCTOR MUST CHECK THE LOCATION OF ALL UNDERGROUND SERVICES, CONFIRM FINISHED SURFACE LEVELS, CHECK THE MATEIRAL, DIAMETER ALIGNMENT, LEVEL AND LOCATION OF EXISTING PIPEWORK AT THE CONNECTION POINTS. IT IS NOT GUARANTEED THAT ALL SERVICES HAVE BEEN SHOWN ON THE DRAWINGS.

WS.5. CHANGES REQUESTED BY ANY PARTY TO THE DESIGN OF THE WORKS DURING ANY STAGE OF THE DEVELOPMENT MUST BE ENDORSED BY THE DESIGNER/CERTIFIER WITH AMENDED DRAWINGS SUBMITTED TO POWER AND WATER FOR APPROVAL PRIOR TO THE CHANGE BEING CARRIED OUT.

WS.6. ALL EXISTING PROPERTY SERVICES ARE TO REMAIN IN SERVICE UNTIL THE CONSTRUCTION OF THE NEW SERVICE IS COMPLETED TO THE SATISFACTION OF POWER AND WATER.

WS.7. ALL LEVELS GIVEN ARE TO AUSTRALIAN HEIGHT DATUM (AHD) IN METRES TO THREE DECIMAL PLACES. PROJECTION SHALL BE BASED ON MGA94 MAP GRID OF AUSTRALIA ZONE 52 OR 53 COORDINATE SYSTEM.

WS.8. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL CHAINAGES AND LEVELS IN METRES UNLESS SHOWN OTHERWISE.

EXCAVATION AND BACKFILLING

WS.9. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITY PRIOR TO ANY EXCAVATION. WHERE APPLICABLE, THE CONTRACTOR MUST SEEK A WRITTEN APPROVAL FROM THE LAND OWNER TO ACCESS AND CONSTRUCT WITHIN THEIR PROPERTY. ALL APPROVALS AND PERMITS MUST BE SUBMITTED TO POWER AND WATER AT LEAST SEVEN (7) DAYS PRIOR TO EXCAVATION WORKS.

WS.10. MINIMUM COVER TO PIPE IS 750mm IN TRAFFICABLE AREAS, 600mm IN OTHER AREAS. 1500mm COVER REQUIRED FOR THRUST BORING UNDER ROAD.

WS.11. EMBEDMENT TYPE FOR ALL PIPES MUST BE TYPE 2A OR 2B WRAPPED IN GEOTEXTILE UNLESS NOTED OTHERWISE. ALL OTHER EMBEDMENT TYPES MUST BE ENDORSED BY THE CERTIFIER WITH SUPPORTING GEOTECHNICAL INVESTIGATION, AND APPROVED BY POWER AND WATER.

WS.12. WHEN EMBEDMENT TYPE CHANGES, A VERTICAL GEOTEXTILE BARRIER SHALL BE INSERTED BETWEEN THE EMBEDMENT TYPES.

WS.13. UNLESS NOTED OTHERWISE IN THE DRAWINGS:
A. USE GENERAL OR SELECTED BACKFILL FOR ROAD RESERVES AND GENERAL AREAS
B. USE 3% CEMENT STABILISED SAND FOR ROADWAYS, DRIVEWAYS AND TRAFFICABLE AREAS
C. USE 5% CEMENT STABILISED GRAVEL FOR OPEN UNLINED DRAIN CROSSINGS.

WS.14. REINSTATE ALL SURFACES UPON COMPLETION OF THE WORKS AS SPECIFIED OR TO MATCH EXISTING TO SATISFACTION OF THE RELEVANT AUTHORITY OR PERSONNEL.

LIVE CONNECTIONS

WS.15. ONLY AUTHORISED POWER AND WATER PERSONNEL ARE PERMITTED TO UNDERTAKE ANY WORKS; OPERATE AND PHYSICALLY ACCESS LIVE ASSETS. AT NO STAGE SHALL ANY OTHER PERSONS CARRY OUT WORK ON POWER AND WATER INFRASTRUCTURE.

WS.16. THE DEVELOPER IS RESPONSIBLE FOR ALL CONNECTION FEES AND CHARGES. THE DEVELOPER MUST SUBMIT THE "REQUEST FOR CONNECTIONS" FORM AND ALLOW FOR A MINIMUM OF TWENTY-ONE (21) DAYS FOR SCHEDULING CONNECTIONS. POWER AND WATER HAVE NO OBLIGATIONS IN AVAILABILITY FOR REQUESTED CONNECTION DATE AND THE DEVELOPER IS TO NEGOTIATE ALTERNATIVE DATES WITH POWER AND WATER.

HANDOVER AND COMMISSIONING

WS.17. THE CERTIFIER MUST SUBMIT THE "HANDOVER REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INITIAL HANDOVER INSPECTION DATE.

WS.18. ALL IDENTIFIED DEFECTS MUST BE RECTIFIED BY THE DEVELOPER WITHIN FOURTEEN DAYS (14) OF INITIAL HANDOVER DATE. A FINAL HANDOVER INSPECTION WITH POWER AND WATER MUST BE ARRANGED TO CONFIRM RECTIFICATION OF OUTSTANDING DEFECTS.

WS.19. COMMISSIONING OF GIFTED ASSET WORKS IS UNDERTAKEN BY POWER AND WATER AFTER SUCCESSFUL HANDOVER OF ASSET, RECTIFICATION OF ALL OUTSTANDING DEFECTS AND COMPLETION OF ALL LIVE CONNECTIONS TO EXISTING MAINS.

CLEARANCE, DEFECTS AND LIABILITY PERIOD

WS.20. THE DEVELOPER MUST SUBMIT THE "CLEARANCE REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AND ALLOW A MINIMUM OF FOURTEEN (14) DAYS TO OBTAIN DEVELOPMENT PERMIT CLEARANCE. ALLOW FOR AN ADDITIONAL FOURTEEN (14) DAYS TO RECTIFY ALL OUTSTANDING DEFECTS AND ISSUES.

WS.21. THE DEFECTS AND LIABILITY PERIOD OF THE ASSET WILL COMMENCE ON THE DATE WHEN DEVELOPMENT CLEARANCE WAS ISSUED BY POWER AND WATER OR DATE OF FINAL ACCEPTANCE OF ASSET.

WS.22. ALL EXTENSIONS AND SUBDIVISIONS ARE SUBJECT TO TWENTY FOUR (24) MONTH DEFECT AND LIABILITY PERIOD. ALL BUILDING DEVELOPMENTS ARE SUBJECT TO TWELVE (12) MONTH DEFECT AND LIABILITY PERIOD.

WS.23. THE DEVELOPER IS FULLY RESPONSIBLE FOR ALL COSTS TO RECTIFY DEFECTS, REPAIR AND EMERGENCY WORKS WITHIN THIS PERIOD. SUCH WORKS WILL RESULT IN AN EXTENDED DEFECTS AND LIABILITY PERIOD OF FIVE (5) YEARS.

WS.24. THE DEVELOPER MUST SCHEDULE AN OFF-MAINTENANCE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INSPECTION DATE. POWER AND WATER WILL TAKE FULL RESPONSIBILITY OF ASSET AFTER ALL DEFECTS HAVE BEEN RECTIFIED AND ALL ASSOCIATED PAYMENT TO REPAIR AND EMERGENCY WORKS HAVE BEEN PAID BY THE DEVELOPER.

SEWER (IN CONJUCTION WITH POWER AND WATER STANDARD DRAWINGS)

S.1. ALL GRAVITY SEWER PIPES SHALL BE UPVC DWV CLASS SN8 WITH STYRENE-BUTADIENE RUBBER RING JOINTS (SBR), UNLESS NOTED OTHERWISE.

S.2. SEWER SHALL BE OFFSET FROM PROPERTY BOUNDARIES A DISTANCE OF 1.6m IN ROAD RESERVES AND 1.5m IN PRIVATE PROPERTY, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

S.3. ALL GRAVITY SEWER ARE TO BE A MINIMUM OF DN150, UNLESS NOTED OTHERWISE.

S.4. THE CONTRACTOR SHALL EITHER INSCRIBE OR ATTACH A PLATE TO THE MAINTENANCE HOLES OR MAINTENANCE SHAFT WITH THE IDENTIFYING NUMBER AS SHOWN ON THE DRAWINGS.

S.5. FLEXIBLE JOINTS WITH CONCRETE SURROUND MUST BE CONSTRUCTED ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF THE MAINTENANCE HOLES. CONCRETE SURROUND MUST BE MINIMUM N32, 300mm THICK WITH 4 x N12 BAR AT EACH CORNER. EACH N12 BAR TO BE COGGED AND EPOXIED MIN 50mm INTO MAINTENANCE HOLE WALL WITH A MIN 50mm COVER.

S.6. DEPTH TO INVERT AT MAINTENANCE HOLES/SHAFT ARE MEASURED FROM THE TOP OF MAINTENANCE HOLES/SHAFT.

S.7. UNLESS NOTED OTHERWISE IN THE DRAWINGS, THE MINIMUM CONCRETE STRENGTH FOR ALL SEWERAGE STRUCTURES INCLUDING MAINTENANCE HOLES MUST BE N50. REFER TO POWER AND WATER STANDARD DRAWING W2-2-01D FOR ADDITIONAL NOTES FOR SEWERAGE STRUCTURES.

S.8. ALIGN MAINTENANCE HOLE COVER SUCH THAT THE LONG SIDE OF THE LID IS PARALLEL WITH THE SEWER MAIN.

S.9. ALL SEWER RISING MAINS MUST BE PVC-O CLASS 16 RRJ, UNLESS NOTED OTHERWISE. NO DEFLECTIONS AT PVC JOINT ARE PERMITTED. SO-SO DI CONNECTORS (MAXIMUM OF TWO (2) DEGREES) OR DI BENDS MUST BE USED TO ACHIEVE DEFLECTIONS ON PVC PIPES.

S.10. MARKING TAPE COLOURED ORANGE AND MARKED 'SEWER MAIN' MUST BE LAID CONTINUOUSLY AND LOCATED 300mm ABOVE THE SEWER PIPEWORK

S.11. THE MINIMUM HORIZONTAL CLEARANCE BETWEEN EXISTING SERVICES MUST BE 600mm FOR NEW MAINS UP TO AND EQUAL TO DN200 AND 1000mm FOR NEW MAINS LARGER THAN DN200.

S.12. THE MINIMUM VERTICAL CLEARANCE BETWEEN EXISTING SERVICES MUST BE 300mm FOR NEW MAINS UP TO AND EQUAL TO DN200 AND 500mm FOR NEW MAINS LARGER THAN DN200.

S.13. THE TESTING OF SEWER MAINS AND STRUCTURES MUST BE ACCORDING TO POWER AND WATER'S TEST PROCEDURES GUIDELINE.

MINIMUM REQUIRED INSPECTIONS BY HYDRAULIC CERTIFIER - SEWER

PRE-START MEETING
THE CERTIFYING ENGINEER TO ARRANGE PRE-START MEETING WITH POWER WATER REPRESENTATIVE AND PLUMBING CONTRACTOR.

INSPECTION 1
INSPECT EXCAVATED TRENCH AND VERIFY EMBEDMENT TYPE REQUIRED FOR THE SUBSOIL CONDITION. OTHER EMBEDMENT TYPES MUST BE ENDORSED WITH SUPPORTING GEOTECHNICAL REPORT AND APPROVED BY POWER AND WATER.

INSPECTION 2
VERIFY ALL CONNECTIONS ARE COMPLETED AND ISOLATED FROM EXISTING.

INSPECTION 3
VERIFY ALL PIPE WORK AND CONCRETE STRUCTURES ARE CONSTRUCTED TO DRAWINGS AND SPECIFICATIONS.

INSPECTION 4
WITNESS FLUSHING AND PRESSURE OR VACUUM TESTING. VERIFY FLUSHING AND PRESSURE OR VACUUM TESTS HAVE PASSED.

INSPECTION 5
VERIFY ALL AS CONSTRUCTED INFORMATION. CONDUCT HANDOVER WITH POWER AND WATER.

INSPECTION 6
VERIFY ALL OUTSTANDING DEFECTS ARE COMPLETED.

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4000**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG
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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
BEWARE OF SERVICES
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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	NTS
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER DRAWING SCHEDULE & NOTES

A1

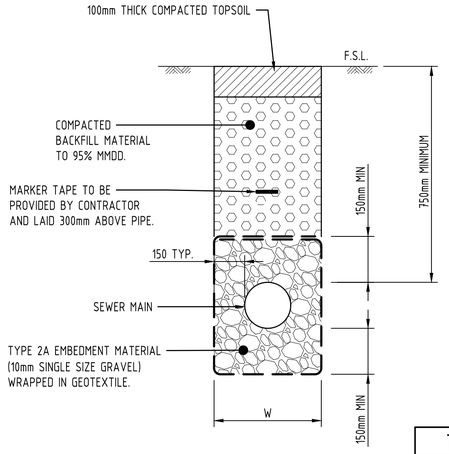
DRAWING NUMBER DN07F-5000-DRG-4000

C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

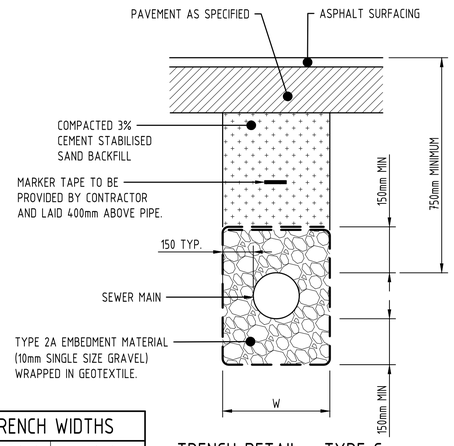
SEWER NOTES:

1. REFER DRG DN07F-5000-DRG-4000 FOR STANDARD NOTES.
2. ALL DIMENSIONS ARE IN MILLIMETERS U.NO.
3. BENCH AND SHORE TRENCHES WHERE NECESSARY TO CONFORM TO SAFETY REQUIREMENTS OR AS DIRECTED BY A COMPETENT GEOTECHNICAL ENGINEER.
4. REFER SEWERAGE LONGITUDINAL SECTIONS FOR SEWER SETOUT, PIPE DIAMETERS AND TRENCH TYPES.
5. CONTRACTOR SHALL CONFIRM THE LEVEL OF ALL EXISTING SEWER CONNECTION POINTS PRIOR TO COMMENCING CONSTRUCTION, DISCREPANCIES TO BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING.
6. PROPERTY CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRGS W2-1-01 TO W2-1-11.
7. ALL WORKS TO LIVE ASSESTS TO BE COMPLETED BY PWC AT DEVELOPERS EXPENSE.
8. ACCESS CHAMBERS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRGS W2-2-01D, W2-2-01D, W2-2-02A & W2-2-03.
9. GENERAL FILL TO BE INORGANIC MATERIAL WITH MAX PARTICLE SIZE OF 75mm AND PLASTICITY INDEX NOT EXCEEDING 15%. THE FIRST 400mm DEPTH OF BACKFILL ABOVE THE PIPE OVERLAY SHALL HAVE 100% PASS OF A 50mm SIEVE. COMPACT BACKFILL TO MIN 45% MMDD.

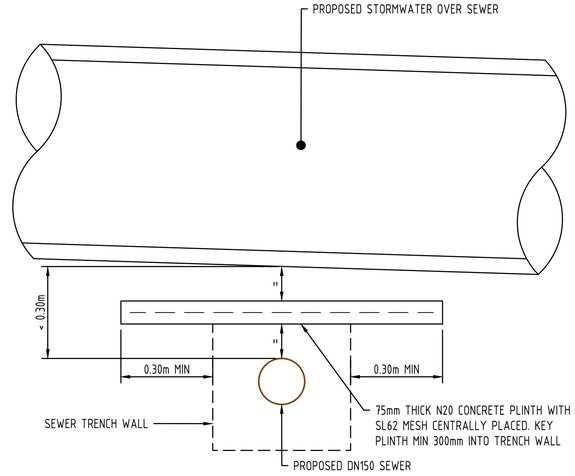


TRENCH DETAIL - TYPE B
(STANDARD - UNDER VERGE)
N.T.S.

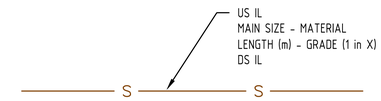
TRENCH WIDTHS	
PIPE SIZE (mm)	W (mm)
100-150	450
200-300	600



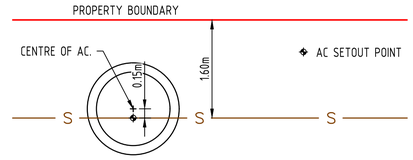
TRENCH DETAIL - TYPE C
(STANDARD - UNDER ROAD PAVEMENTS)
N.T.S.



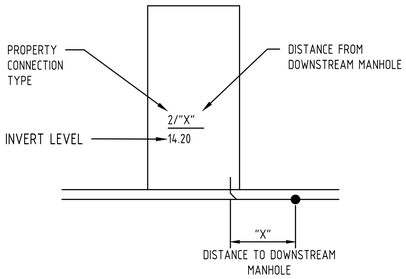
MECHANICAL PROTECTION DETAIL
SCALE 1:10



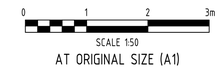
TYPICAL MAIN LABEL
N.T.S.



OFFSET ACCESS CHAMBER DETAIL
SCALE 1:50



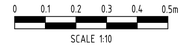
TYPICAL LOT CONNECTION SETOUT WITHOUT A ROAD CROSSING
N.T.S.



SCALE 1:50
AT ORIGINAL SIZE (A1)

SCALE 1:25
AT ORIGINAL SIZE (A1)

SCALE 1:20
AT ORIGINAL SIZE (A1)



SCALE 1:10
AT ORIGINAL SIZE (A1)

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ON BEHALF OF WATER SERVICES FOR THE INCORPORATION INTO POWER AND WATER CORPORATION'S NETWORK.
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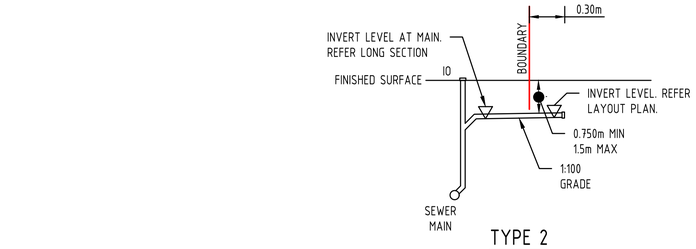
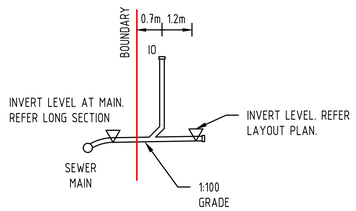
This drawing is valid for 2 years from the date of signing

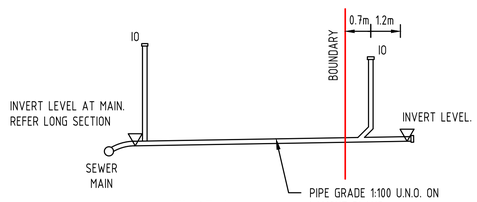
DESIGN CERTIFICATION
CERTIFIER'S NAME: SAM WARNER
PWC ACCREDITATION CODE: DESCERTBL69
DATE: 19.12.25 SIGNATURE: .....



TYPE 2



TYPE 1



TYPE 4

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4001**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	19.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
BEWARE OF SERVICES
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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	AS SHOWN
ISSUED	19.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER NOTES & DETAILS

A1

DRAWING NUMBER DN07F-5000-DRG-4001

CAD PRODUCT - DO NOT AMEND MANUALLY

C AMDT

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-5000-DRG-4000 & DN07F-5000-DRG-4001.
2. FOR SEWER LONGITUDINAL SECTION REFER TO DRG. DN07F-5000-DRG-4006.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. SEWER PROPERTY CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRAWINGS.

PERMISSION TO USE FOR CONSTRUCTION PURPOSES ONLY

SIGNED _____ DATE_____

ON BEHALF OF WATER SERVICES FOR THE INCORPORATION INTO POWER AND WATER CORPORATION'S NETWORK.

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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

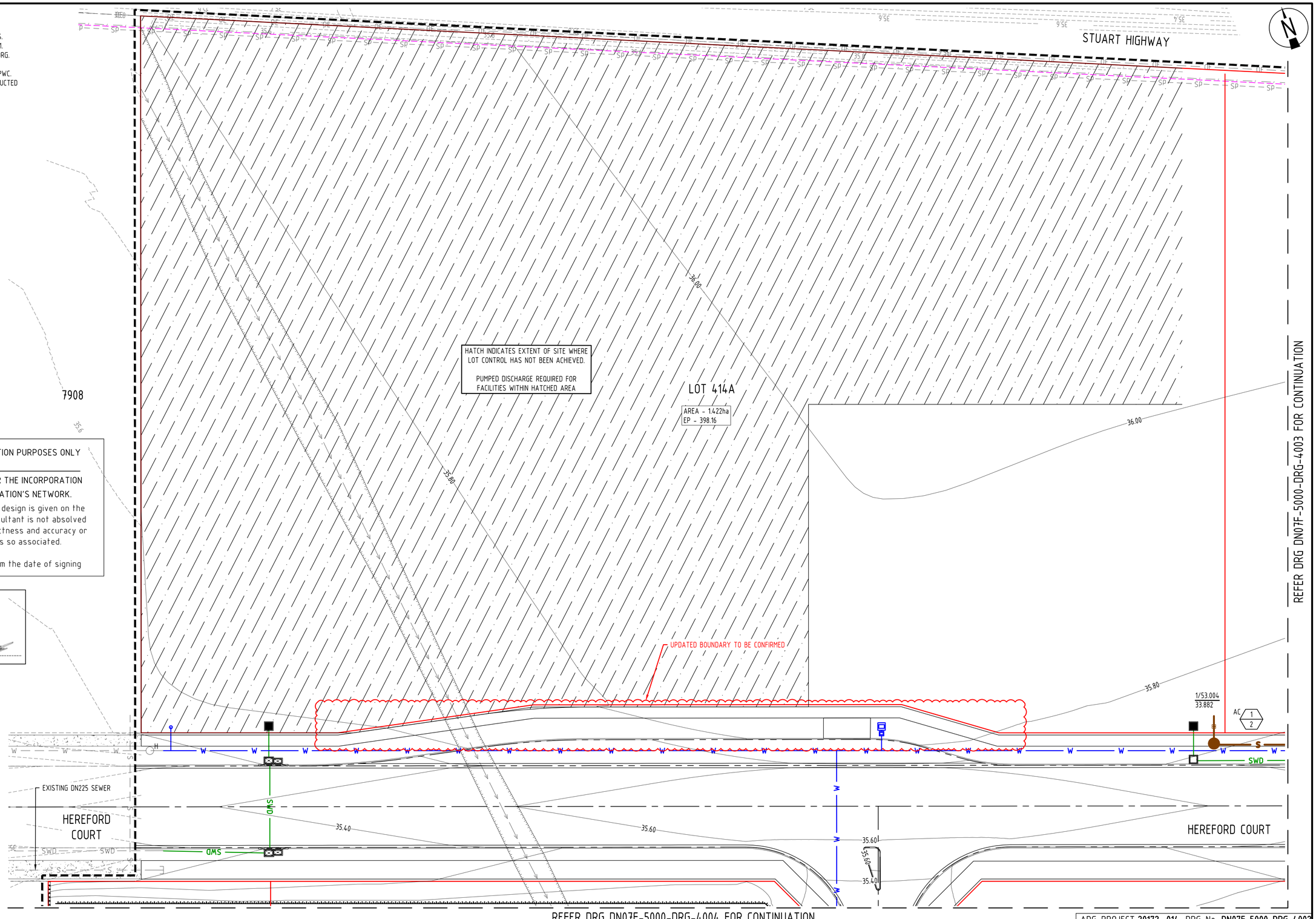
0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)

ISSUED FOR

APPROVAL



NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	0	18.12.25	0	0
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

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PowerWater NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH SEWER LAYOUT PLAN SHEET 1 OF 4

A1

DRAWING NUMBER DN07F-5000-DRG-4002

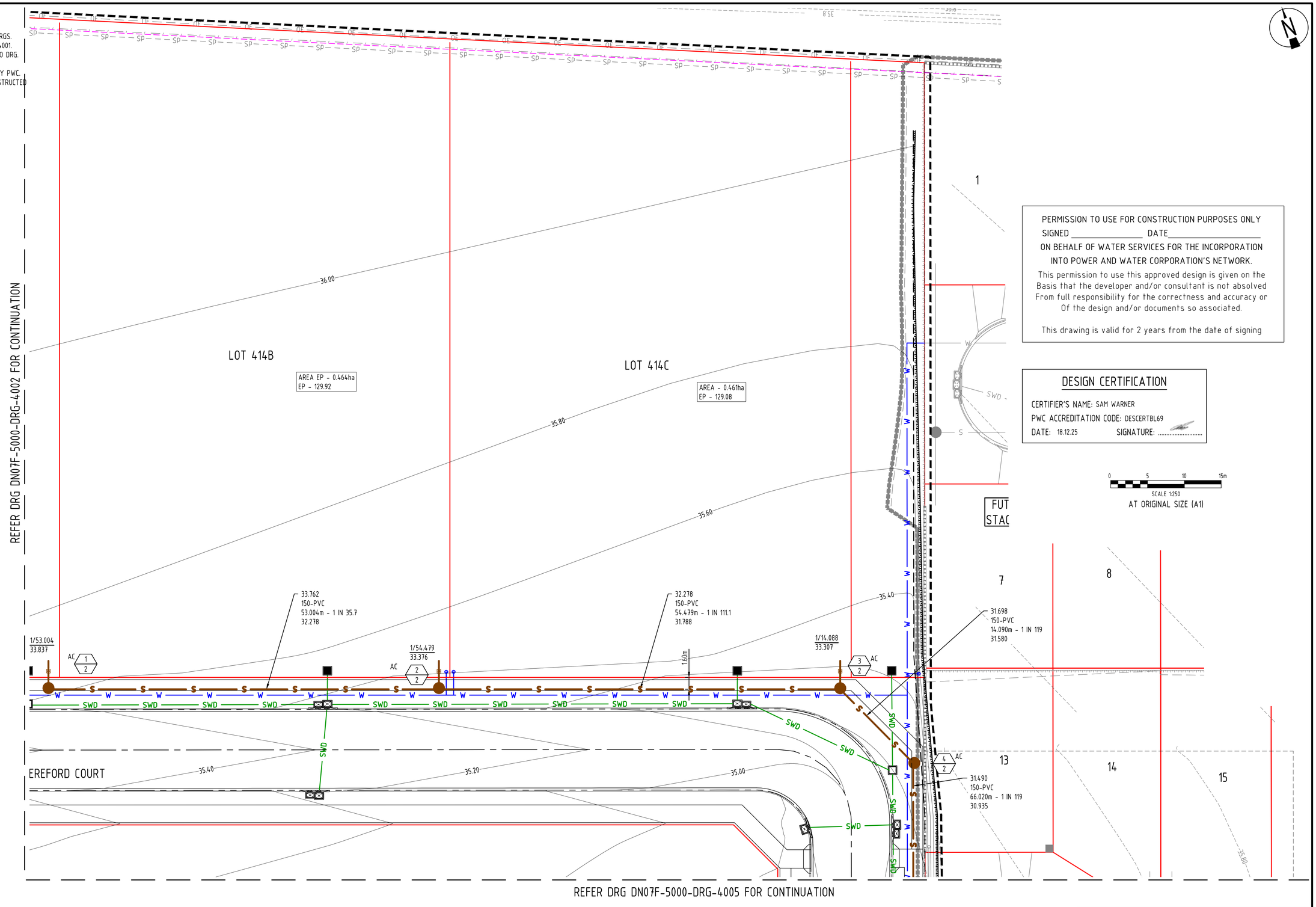
C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4002**

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-5000-DRG-4000 & DN07F-5000-DRG-4001.
2. FOR SEWER LONGITUDINAL SECTION REFER TO DRG. DN07F-5000-DRG-4006.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. SEWER PROPERTY CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRAWINGS.



REFER DRG DN07F-5000-DRG-4005 FOR CONTINUATION

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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER
PWC ACCREDITATION CODE: DESCERTBL69
DATE: 18.12.25 SIGNATURE: .....

0 5 10 15m
SCALE 1:250
AT ORIGINAL SIZE (A1)

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4003**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER LAYOUT PLAN
SHEET 2 OF 4

A1

DRAWING NUMBER DN07F-5000-DRG-4003

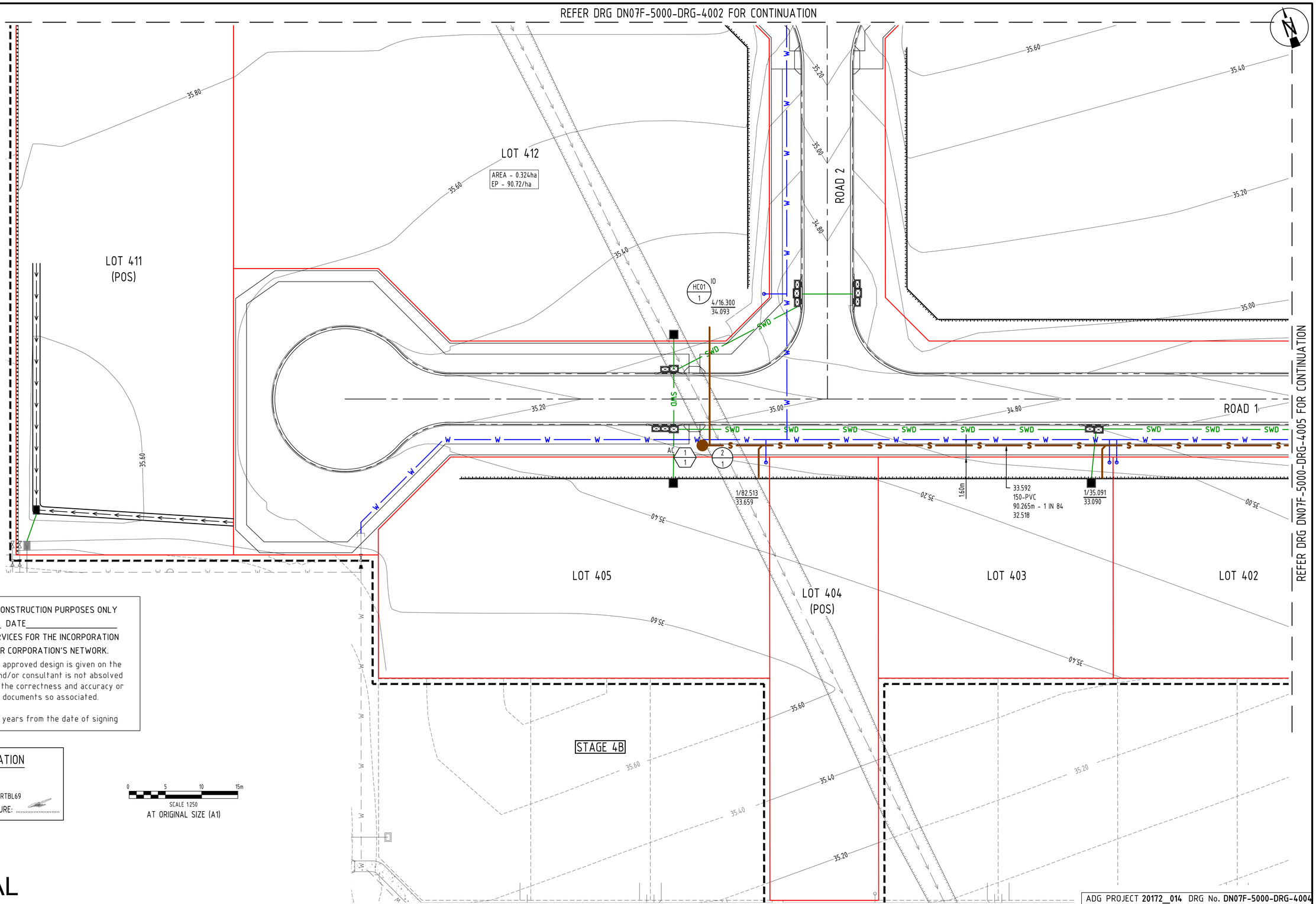
C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-5000-DRG-4000 & DN07F-5000-DRG-4001.
2. FOR SEWER LONGITUDINAL SECTION REFER TO DRG. DN07F-5000-DRG-4006.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. SEWER PROPERTY CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRAWINGS.

REFER DRG DN07F-5000-DRG-4002 FOR CONTINUATION



REFER DRG DN07F-5000-DRG-4005 FOR CONTINUATION

PERMISSION TO USE FOR CONSTRUCTION PURPOSES ONLY

SIGNED _____ DATE_____

ON BEHALF OF WATER SERVICES FOR THE INCORPORATION INTO POWER AND WATER CORPORATION'S NETWORK.

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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 17.04.25 SIGNATURE: .....

0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)

ISSUED FOR

APPROVAL

NO	DESCRIPTION	DRN	DATE	CKD	APPD
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG
T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING

BEWARE OF SERVICES

THE LOCATIONS OF ALL EXISTING SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	17.04.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER LAYOUT PLAN
SHEET 3 OF 4

A1

DRAWING NUMBER DN07F-5000-DRG-4004

B AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4004**

NOTES

1. FOR LEGEND, NOTES & DETAILS REFER TO DRGS. DN07F-5000-DRG-4000 & DN07F-5000-DRG-4001.
2. FOR SEWER LONGITUDINAL SECTION REFER TO DRG. DN07F-5000-DRG-4006.
3. ALL LIVE CONNECTIONS TO BE PERFORMED BY PWC.
4. SEWER PROPERTY CONNECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH PWC STD DRAWINGS.

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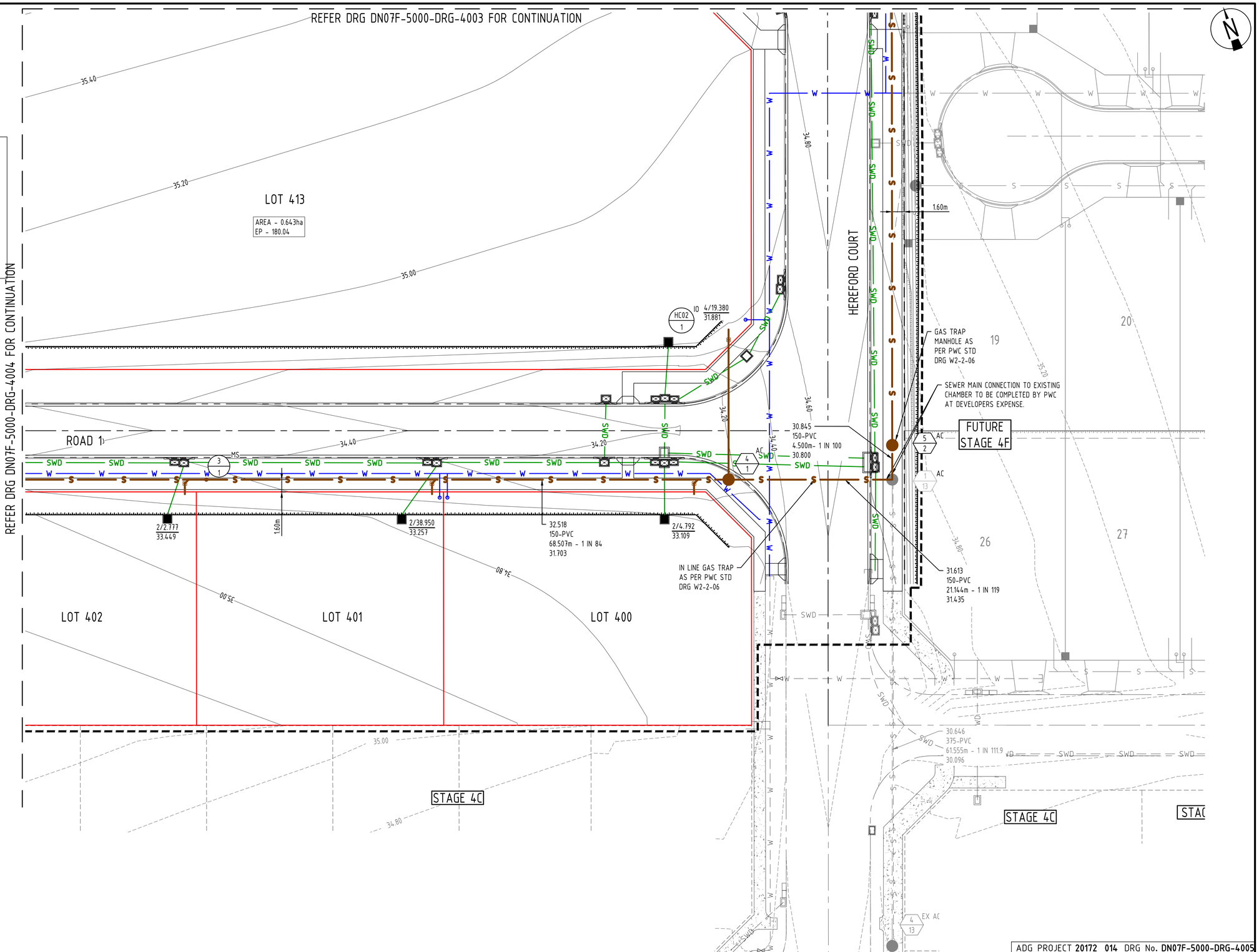
0 5 10 15m

SCALE 1:250

AT ORIGINAL SIZE (A1)



DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

ISSUED FOR

APPROVAL

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

ADG

T:1300 657 402 E: info@adgce.com W: www.adgce.com

Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018 Environmental Management ISO 14001:2015

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PowerWater NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	1:250
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER LAYOUT PLAN
SHEET 4 OF 4

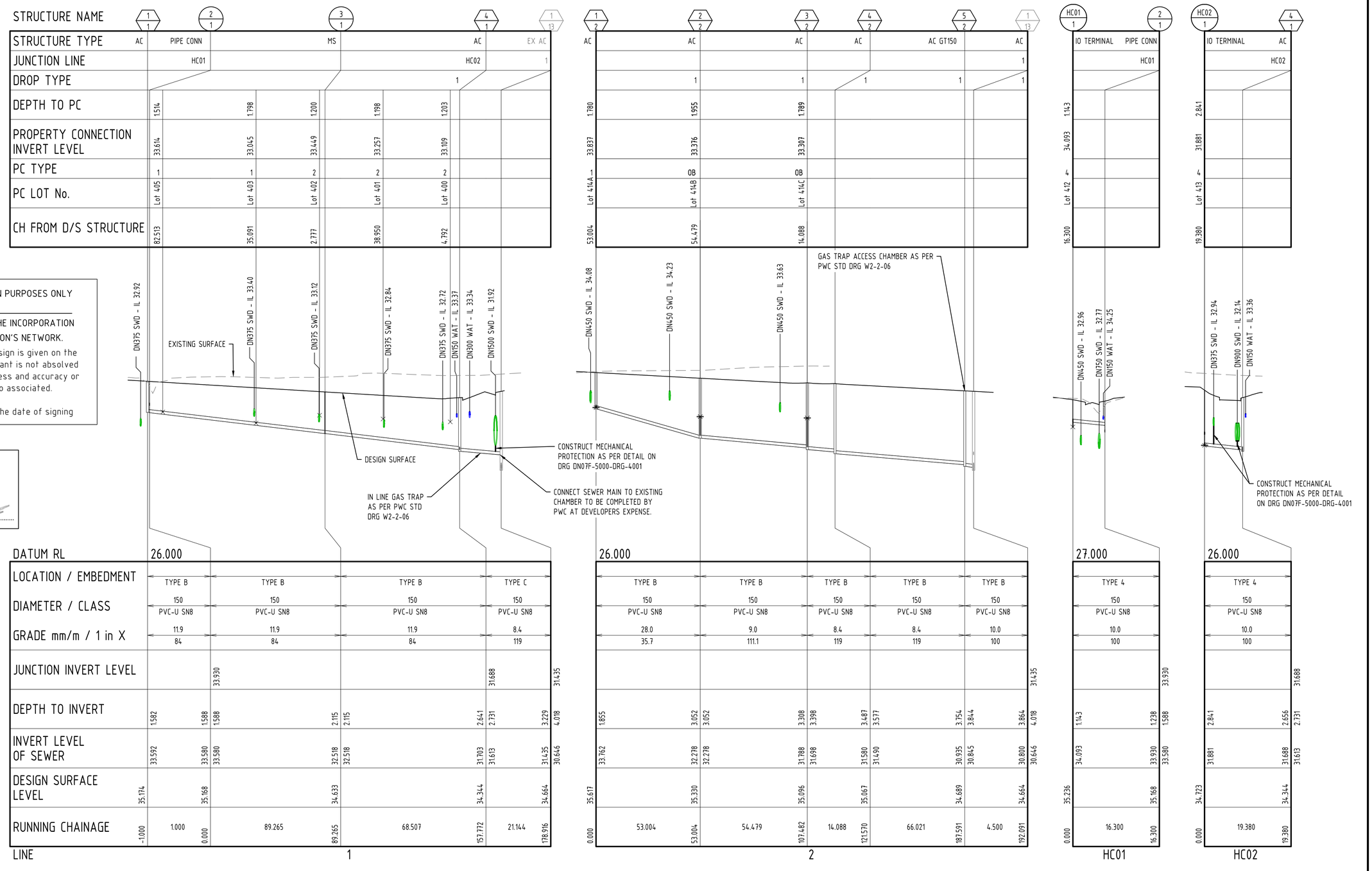
A1

DRAWING NUMBER DN07F-5000-DRG-4005

C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4005**



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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER

PWC ACCREDITATION CODE: DESCERTBL69

DATE: 18.12.25 SIGNATURE: .....

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4006**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
C	ISSUED FOR APPROVAL	AB	18.12.25	SW	SW
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW
A	90% ISSUE	DL	02.07.24	SW	SW

AMENDMENTS

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	AS SHOWN
ISSUED	18.12.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER LONGITUDINAL SECTION

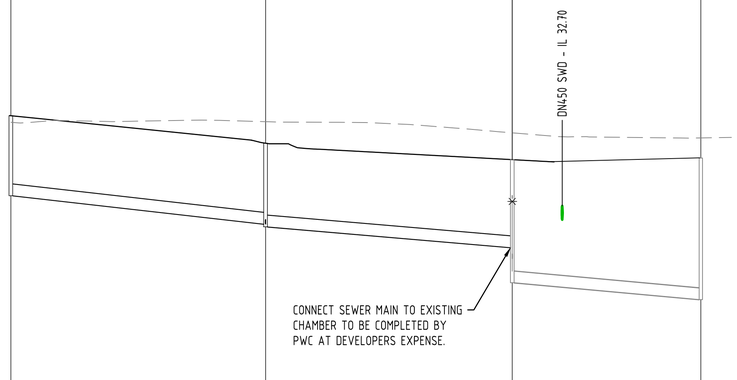
A1

DRAWING NUMBER DN07F-5000-DRG-4006

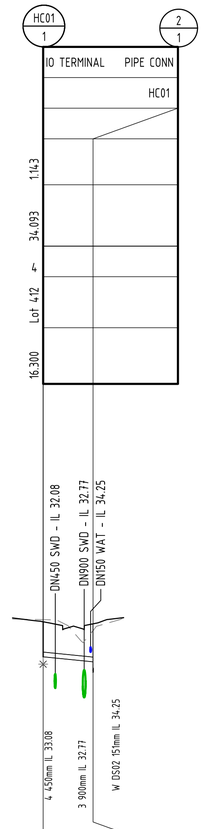
C AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

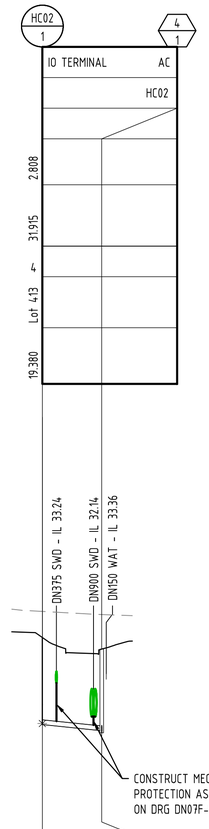
STRUCTURE NAME	1 / 13	2 / 13	3 / 13	4 / 13
STRUCTURE TYPE	AC	AC	EX AC	EX AC
JUNCTION LINE		2	1	
DROP TYPE				
DEPTH TO PC			1.364	
PROPERTY CONNECTION INVERT LEVEL			33.300	
PC TYPE			1	
PC LOT No.			Lot 415	
CH FROM D/S STRUCTURE			61.555	



DATUM RL	26.000				
LOCATION / EMBEDMENT	TYPE B		TYPE B	TYPE B	
DIAMETER / CLASS	375 PVC-U SN8		375 PVC-U SN8	375 PVC-U SN8	
GRADE mm/m / 1 in X	11.2 89.7		8.4 119	8.9 111.9	
JUNCTION INVERT LEVEL			32.560	31.435	
DEPTH TO INVERT	2.611	2.639	2.729	2.870	4.018 4.621 4.621
INVERT LEVEL OF SEWER	33.688	32.560	32.470	31.794	30.646 30.096 30.096
DESIGN SURFACE LEVEL	36.099	35.200	34.664	34.717	
RUNNING CHAINAGE	0.000	83.163	83.163	80.534	163.697 61.555 225.251
LINE			13		



DATUM RL	27.000		
LOCATION / EMBEDMENT	TYPE 4		
DIAMETER / CLASS	150 PVC-U SN8		
GRADE mm/m / 1 in X	10.0 100		
JUNCTION INVERT LEVEL			33.930
DEPTH TO INVERT	1.143	1.238	1.588
INVERT LEVEL OF SEWER	34.093	33.930	33.580
DESIGN SURFACE LEVEL	35.236	35.168	
RUNNING CHAINAGE	0.000	16.300	16.300
LINE		HC01	



DATUM RL	27.000		
LOCATION / EMBEDMENT	TYPE 4		
DIAMETER / CLASS	150 PVC-U SN8		
GRADE mm/m / 1 in X	10.0 100		
JUNCTION INVERT LEVEL			31.688
DEPTH TO INVERT	2.841	2.656	2.731
INVERT LEVEL OF SEWER	31.881	31.688	31.613
DESIGN SURFACE LEVEL	34.723	34.344	
RUNNING CHAINAGE	0.000	19.380	19.380
LINE		HC02	

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DESIGN CERTIFICATION

CERTIFIER'S NAME: SAM WARNER
PWC ACCREDITATION CODE: DESCERTBL69
DATE: 17.04.25 SIGNATURE: .....

ISSUED FOR
APPROVAL

ADG PROJECT **20172_014** DRG No. **DN07F-5000-DRG-4007**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
B	ISSUED FOR APPROVAL	AB	17.04.25	SW	SW

AMENDMENTS

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

WARNING
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PowerWater
NORTHERN TERRITORY

DES	HD
DRN	AB
CHK	SW
APPD	SW
SCALE	AS SHOWN
ISSUED	17.04.25
ALL DIM. IN m	
DRAFTING STANDARD TO A.S.1100	

STAGE 7F NORTHCREST BERRIMAH
SEWER LONGITUDINAL SECTION
SHEET 2 OF 2

A1

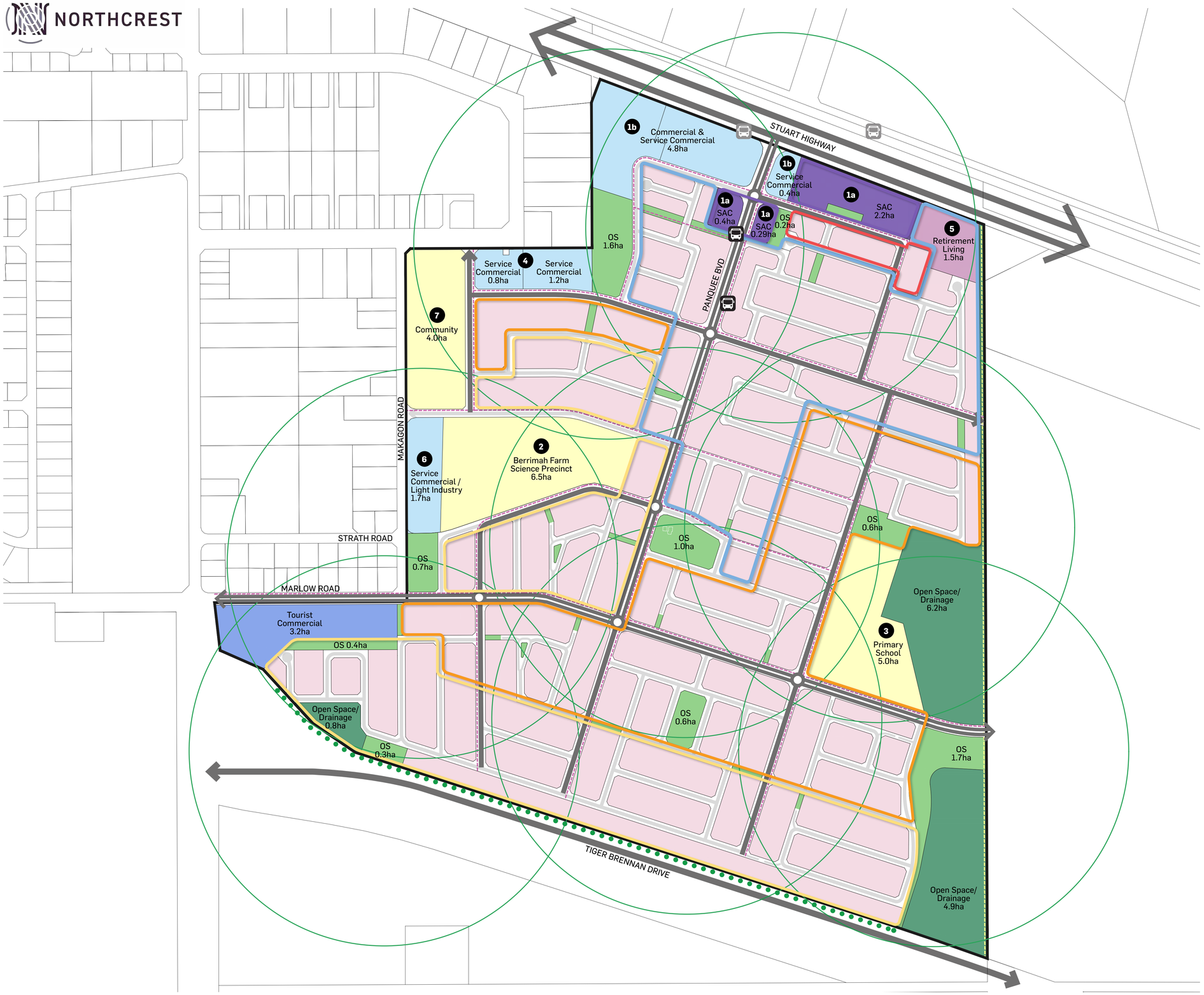
DRAWING NUMBER DN07F-5000-DRG-4007

B AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY

Appendix E
Northcrest Darwin Transport Assessment Report

NORTHCREST



LEGEND:

- SITE BOUNDARY
- MAJOR ROADS
- PEDESTRIAN / CYCLE NETWORK CONNECTIONS THROUGHOUT SITE TO COMMUNITY AND RECREATION AREAS
- 10m ELECTRICAL SUPPLY EASEMENT
- EXISTING BUS STOP
- PROPOSED BUS STOP

- 150-420 SECONDARY ACTIVITY CENTRE BAND
- 50-100 DWELLINGS PER HECTARE BAND
- 25-60 DWELLINGS PER HECTARE BAND
- 16-40 DWELLINGS PER HECTARE BAND
- 10-25 DWELLINGS PER HECTARE BAND

- SECONDARY ACTIVITY CENTRE / MIXED USE
- RETIREMENT LIVING
- RESIDENTIAL
- TOURIST COMMERCIAL
- COMMERCIAL
- COMMUNITY

- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE
- BUFFER / FENCING TREATMENT AREAS TO TIGER BRENNAN DRIVE
- WALKABILITY TO ACTIVE OPEN SPACE - 400m RADIUS

1a SECONDARY ACTIVITY CENTRE SUPPORTED BY MIXED USE DEVELOPMENT
SECONDARY ACTIVITY CENTRE CONSISTING OF RESTAURANTS, FOOD PREMISES, RETAILING (INC. LARGE FORMAT STORES), ENTERTAINMENT, LICENSED CLUBS, BUSINESS USES, HOTELS MOTELS, HIGH DENSITY RESIDENTIAL AND MEDICAL SERVICES

1b SHOWROOM, VEHICLE SALES, SERVICE STATION, DRIVE THROUGH FAST FOOD AND SIMILAR, DRIVE THROUGH LIQUOR STORES, OFFICES, MINI STORAGE

2 COLLECTION OF GOVERNMENT, PRIVATE RESEARCH, COMMERCIAL BASED ORGANISATIONS AND SUPPORTING USES

3 EDUCATION FACILITIES.

4 SPECIALIST COMMERCIAL SUCH AS: INDOOR LEISURE, RECREATIONAL AND SPORTS FACILITIES, MEDICAL CLINICS, SHOWROOMS, OFFICES, HOTELS, MOTEL, TOURIST ACCOMMODATION, SERVICE STATION AND MINI STORAGE

5 RESIDENTIAL, RETIREMENT LIVING AND COMMUNITY FACILITIES

6 OFFICE, PARK, STORAGE AND ANCILLARY PURPOSES, RESEARCH INSTITUTIONS

7 COMMUNITY INFRASTRUCTURE (REFER CLAUSE 7.6(B) OF THE PDA) SUBJECT TO DEVELOPMENT CONSENT

URBIS

NORTHCREST, BERRIMAH NT

MASTER PLAN

DCOH ADG

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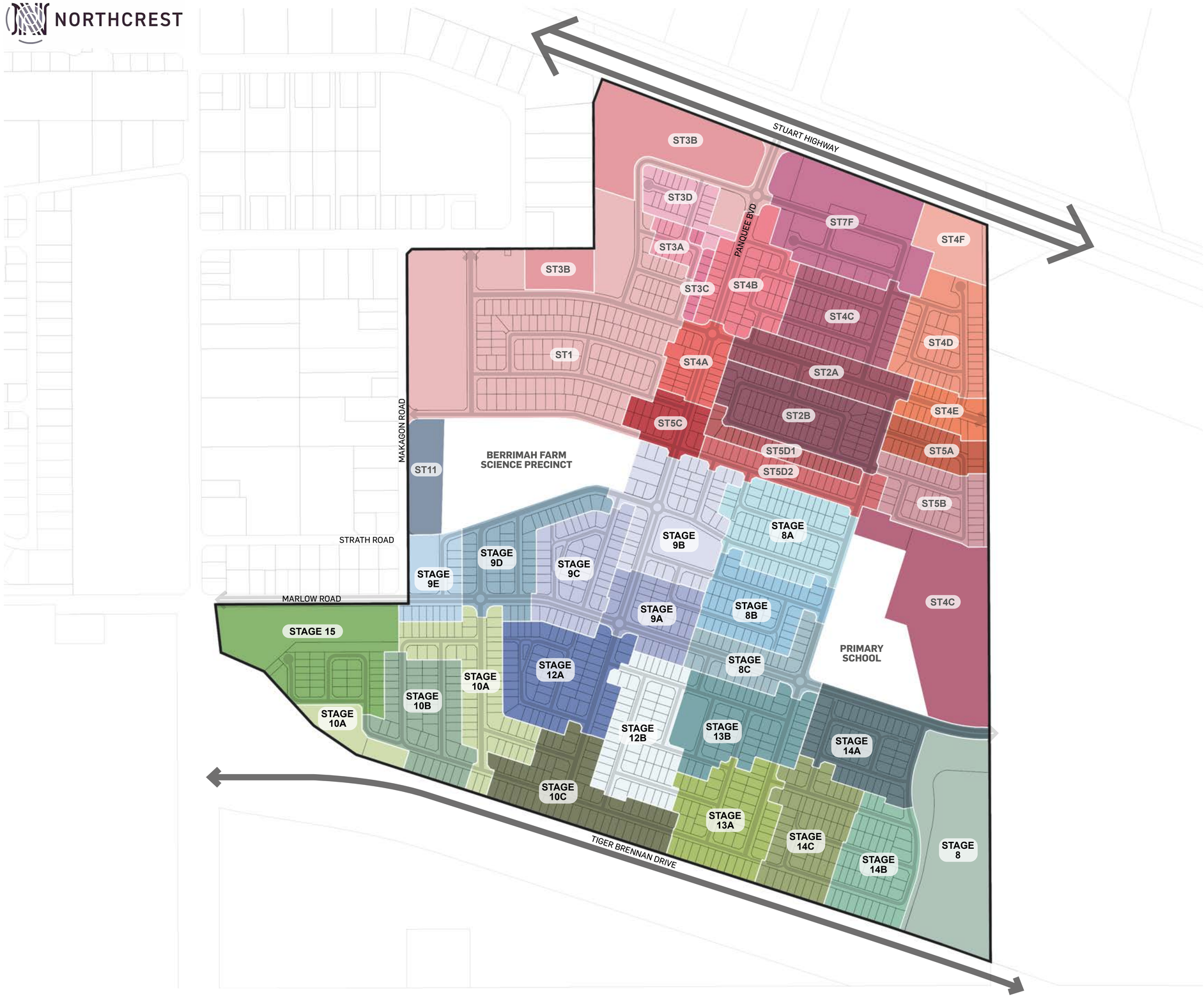
DATE: 26.06.2024

1:4000 @ A1, **1:8000** @ A3

0 50 100

NORTHCREST



LEGEND:

- SITE BOUNDARY
- STAGE BOUNDARY
- **STAGE 8A** PROPOSED STAGE
- ST1 STAGE BY OTHERS

- STAGE 1
- STAGE 2A
- STAGE 2B
- STAGE 3A
- STAGE 3B
- STAGE 3C
- STAGE 3D
- STAGE 4A
- STAGE 4B
- STAGE 4C
- STAGE 4D
- STAGE 4E
- STAGE 4F
- STAGE 5A
- STAGE 5B
- STAGE 5C
- STAGE 5D1
- STAGE 5D2
- STAGE 7F
- STAGE 8
- STAGE 8A
- STAGE 8B
- STAGE 8C
- STAGE 9A
- STAGE 9B
- STAGE 9C
- STAGE 9D
- STAGE 9E
- STAGE 10A
- STAGE 10B
- STAGE 10C
- STAGE 11
- STAGE 12A
- STAGE 12B
- STAGE 13A
- STAGE 13B
- STAGE 14A
- STAGE 14B
- STAGE 14C
- STAGE 15

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NORTHCREST, BERRIMAH NT

STAGING PLAN

DCOH

ADG

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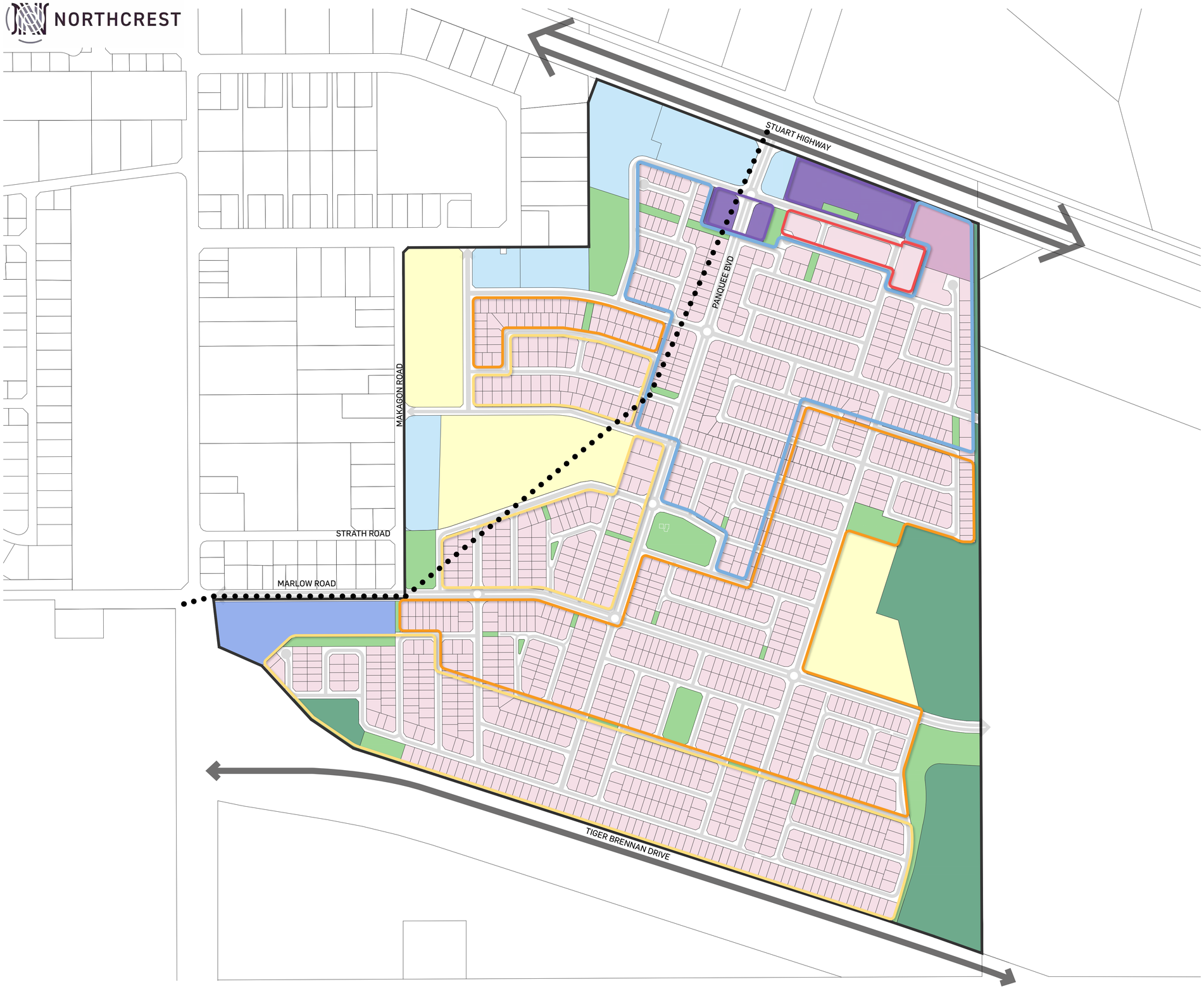
DATE: 26.06.2024

1:4000 @ A1, **1:8000** @ A3

0 50 100

NORTHCREST



LEGEND:

- SITE BOUNDARY
- HEIGHT CONTROLLED AREA
- 150-420 SECONDARY ACTIVITY CENTRE BAND
- 50-100 DWELLINGS PER HECTARE BAND
- 25-60 DWELLINGS PER HECTARE BAND
- 16-40 DWELLINGS PER HECTARE BAND
- 10-25 DWELLINGS PER HECTARE BAND
- SECONDARY ACTIVITY CENTRE / MIXED USE
- RETIREMENT LIVING
- RESIDENTIAL
- TOURIST COMMERCIAL
- COMMERCIAL
- COMMUNITY
- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE

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NORTHCREST, BERRIMAH NT

AREA PLAN - PROPOSED

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DATE: 26.06.2024

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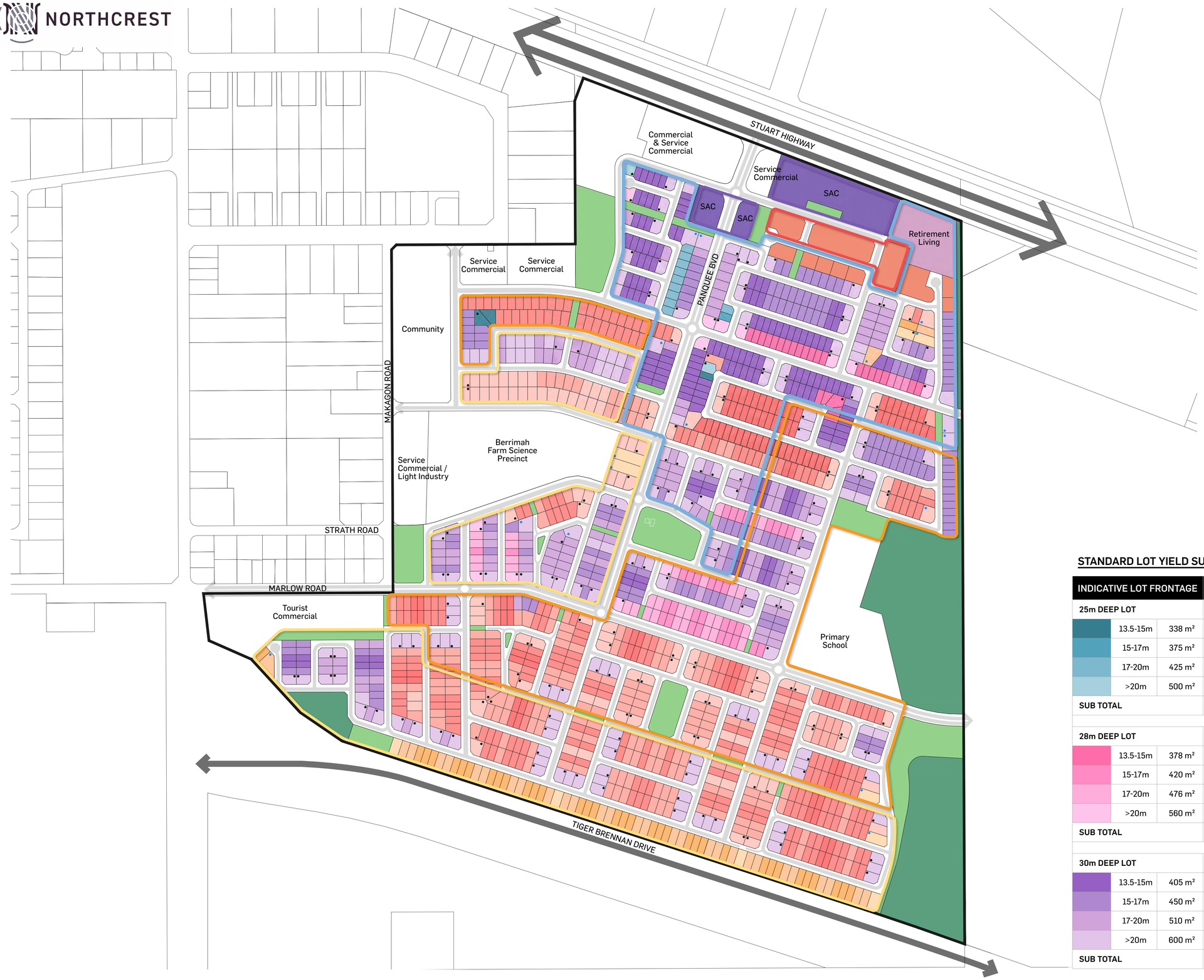
NORTHCREST



LEGEND:

- SITE BOUNDARY
- POTENTIAL DUPLEX LOT
- POTENTIAL TRIPLEX LOT
- 150-420 SECONDARY ACTIVITY CENTRE BAND
- 50-100 DWELLINGS PER HECTARE BAND
- 25-60 DWELLINGS PER HECTARE BAND
- 16-40 DWELLINGS PER HECTARE BAND
- 10-25 DWELLINGS PER HECTARE BAND
- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE

HIGH DENSITY YIELD SUMMARY:

SUPER LOT TYPE			TOTAL	
APARTMENT			LOTS	DWELLINGS
	50-100dw/ha	2.6ha	11	130-260dw
RETIREMENT LIVING			LOTS	DWELLINGS
	100-125dw/ha	1.5ha	1	160-200dw
SECONDARY ACTIVITY CENTRE			LOTS	DWELLINGS
	150-420dw/ha	2.9ha	3	445-1250dw
TOTAL			12	740-1720dw
NOTE: INDICATIVE YIELDS BASED ON DENSITY BAND RANGE				

STANDARD LOT YIELD SUMMARY:

INDICATIVE LOT FRONTAGE			TOTAL	
25m DEEP LOT			LOTS	%
	13.5-15m	338 m²	3	0.2%
	15-17m	375 m²	1	0.1%
	17-20m	425 m²	10	0.7%
	>20m	500 m²	2	0.1%
SUB TOTAL			16	1.1%
28m DEEP LOT			LOTS	%
	13.5-15m	378 m²	25	1.7%
	15-17m	420 m²	35	2.3%
	17-20m	476 m²	32	2.1%
	>20m	560 m²	13	0.9%
SUB TOTAL			105	7.0%
30m DEEP LOT			LOTS	%
	13.5-15m	405 m²	158	10.6%
	15-17m	450 m²	170	11.4%
	17-20m	510 m²	132	8.9%
	>20m	600 m²	180	12.1%
SUB TOTAL			640	43.0%

STANDARD LOT YIELD SUMMARY:

INDICATIVE LOT FRONTAGE			TOTAL	
32m DEEP LOT			LOTS	%
	13.5-15m	432 m²	103	6.9%
	15-17m	480 m²	261	17.5%
	17-20m	544 m²	185	12.4%
	>20m	640 m²	103	6.9%
SUB TOTAL			652	43.8%
>38m DEEP LOT			LOTS	%
	15-17m	600 m²	36	2.4%
	17-20m	680 m²	31	2.1%
	>20m	800 m²	10	0.7%
SUB TOTAL			77	5.2%
TOTAL STANDARD LOTS			1490	100%
POTENTIAL DUPLEX LOTS			209	12.0%
POTENTIAL TRIPLEX LOTS			18	1.0%
TOTAL DWELLINGS			1735	
TOTAL AREA OF STANDARD LOTS				78.9ha
AVG. AREA OF STANDARD LOTS				530m²
MINIMUM STANDARD LOT AREA				378m²
MAXIMUM STANDARD LOT AREA				1509m²

URBIS

NORTHCREST, BERRIMAH NT

YIELD SUMMARY - RESIDENTIAL

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DATE: 26.06.2024

1:4000 @ A1, 1:8000 @ A3

0 50 100

NORTHCREST

LEGEND:

- SITE BOUNDARY
- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE
- BUFFER / FENCING TREATMENT AREAS TO TIGER BRENNAN DRIVE
- WALKABILITY TO ACTIVE OPEN SPACE - 400m RADIUS

OPEN SPACE SUMMARY:

SUPER LOT TYPE		
ACTIVE OPEN SPACE		
	8.8ha	41%
PASSIVE OPEN SPACE		
	12.7ha	59%
TOTAL	21.5ha	100%

URBIS

NORTHCREST, BERRIMAH NT

OPEN SPACE SUMMARY

DCOH ADG

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DATE: 26.06.2024

1:4000 @ A1, 1:8000 @ A3

0 50 100

NORTHCREST

LEGEND:

- SITE BOUNDARY
- 30m URBAN RESIDENTIAL - FEATURE COLLECTOR
- 27m URBAN RESIDENTIAL - FEATURE COLLECTOR
- 25m URBAN RESIDENTIAL - PRIMARY COLLECTOR
- 20m URBAN RESIDENTIAL - COLLECTOR
- 17m URBAN RESIDENTIAL A - LOCAL
- 17m URBAN RESIDENTIAL B - LOCAL
- 16m URBAN RESIDENTIAL - MINOR
- 10m DRIVEWAY
- POTENTIAL BUS ROUTE
- INDICATIVE ROUNDABOUT
- INTERSECTION PRIORITIES
- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE

URBIS

NORTHCREST, BERRIMAH NT

ROAD HIERARCHY PLAN

DCOH

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DATE: 26.06.2024

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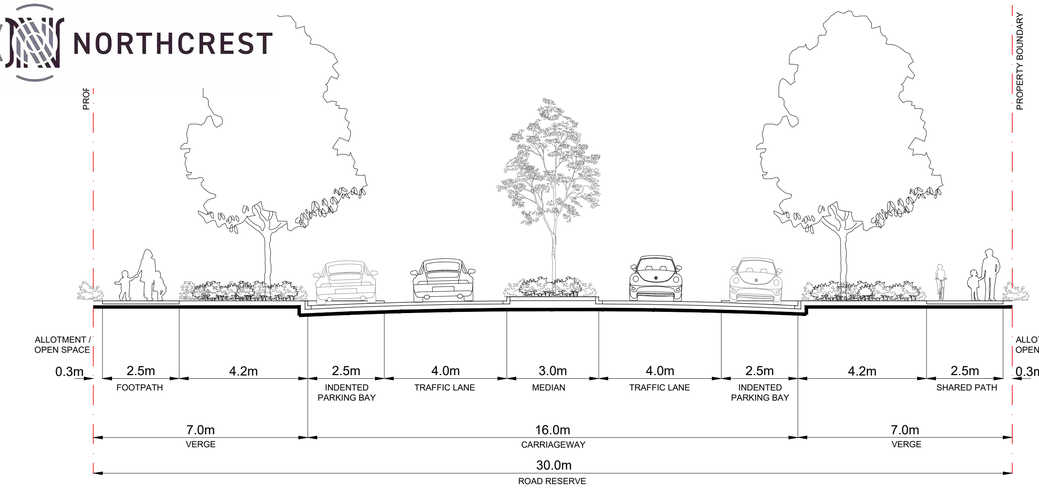
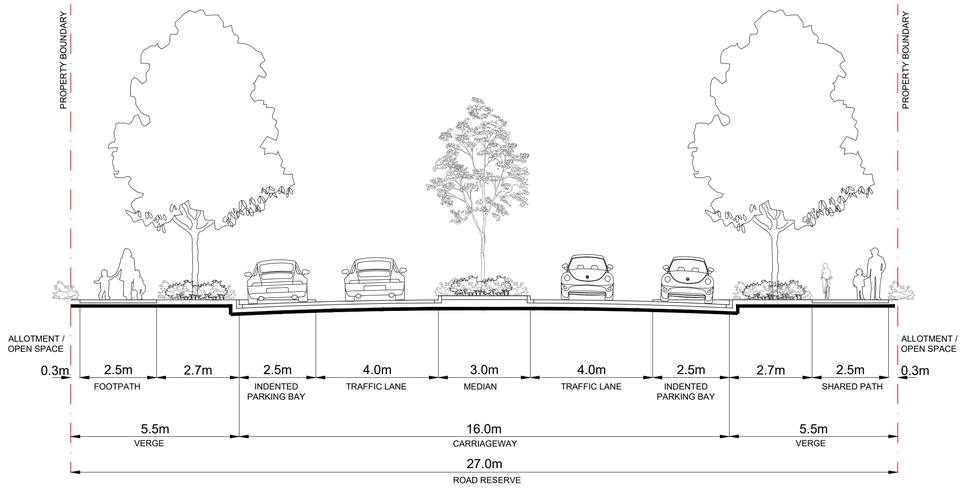
0 50 100

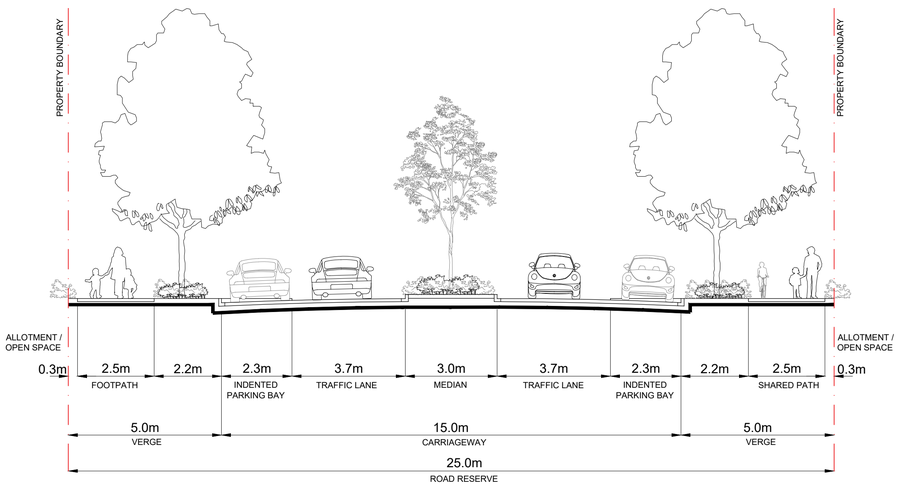
NORTHCREST



30m URBAN RESIDENTIAL - FEATURE COLLECTOR



27m URBAN RESIDENTIAL - FEATURE COLLECTOR



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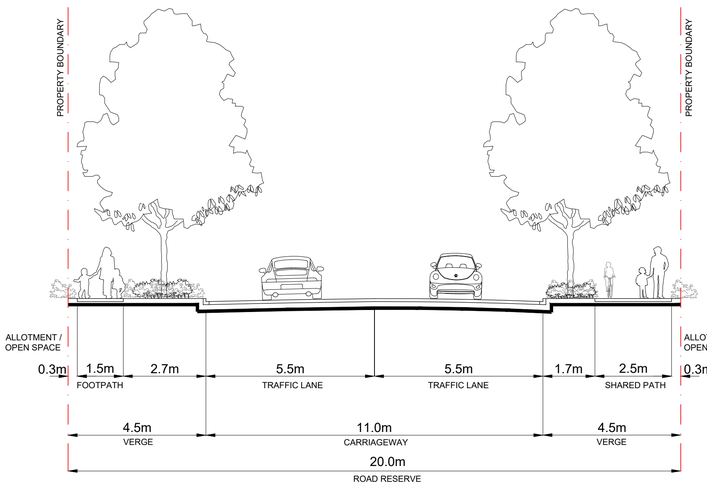

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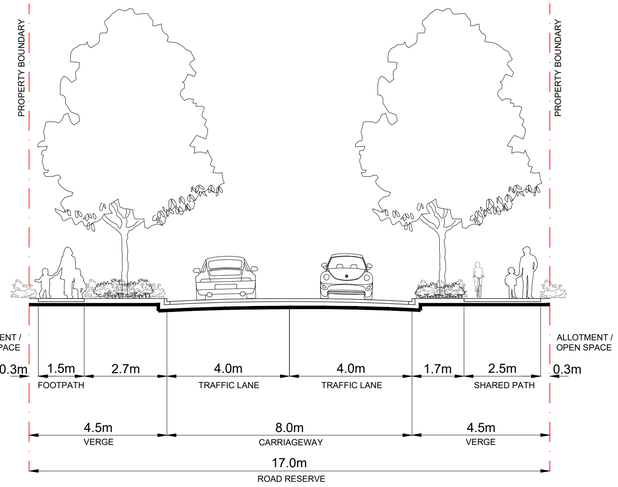
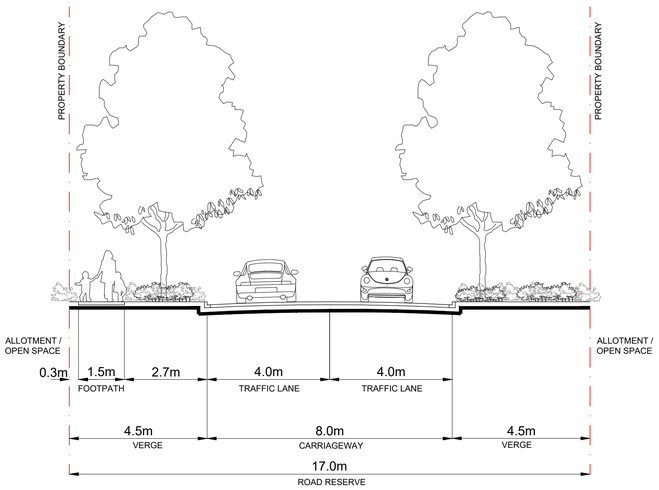
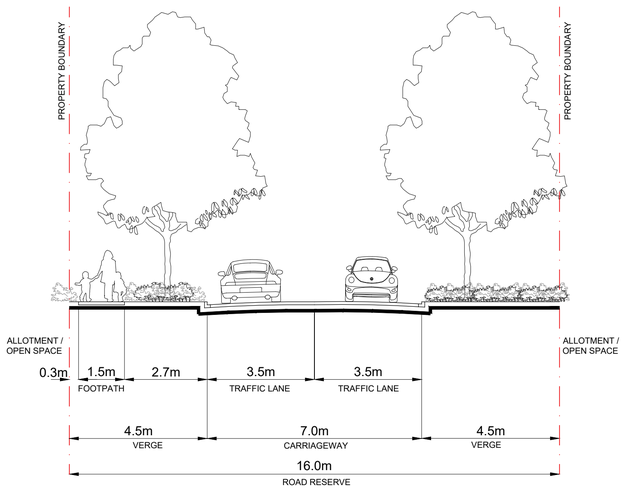


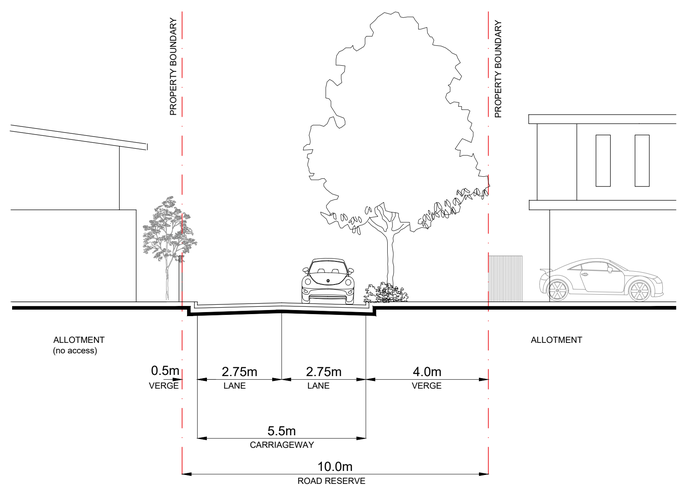
17m URBAN RESIDENTIAL A - LOCAL



17m URBAN RESIDENTIAL B - LOCAL



16m URBAN RESIDENTIAL - MINOR



10m DRIVEWAY

URBIS NORTHCREST, BERRIMAH NT

ROAD PROFILES

DCOH

ADG

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DATE: 26.06.2024

1:100 @ A1, 1:200 @ A3

0 1 2 3

NORTHCREST

LEGEND:

- SITE BOUNDARY
- INDICATIVE 1.5m FOOTPATH LOCATION (SUBJECT TO DETAILED DESIGN)
- INDICATIVE 2.5m SHARED PATH LOCATION (SUBJECT TO DETAILED DESIGN)
- ACTIVE OPEN SPACE
- PASSIVE OPEN SPACE

URBIS

NORTHCREST, BERRIMAH NT

CYCLE & PEDESTRIAN HIERARCHY PLAN

DCOH ADG

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DATE: 26.06.2024

1:4000 @ A1, **1:8000** @ A3

0 50 100

Appendix F
Major Storm Event Flood Mapping

DEPTH LEGEND

- <150mm
- 150mm - 300mm
- 300mm - 500mm
- 500mm - 800mm
- 800mm - 1000mm
- >1000mm

NOTE:
REFER TO LANDSCAPING PLANS FOR SURFACE DETAILS.

REFER TO DRG SK1001 FOR CONTINUATION

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
A	25.07.24	ISSUED FOR APPROVAL	DL	SW

0 50 100 150m
SCALE 1:2500
AT ORIGINAL SIZE (A1)

T:1300 657 402 E: info@adgce.com W: www.adgce.com
Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD	Discipline: CIVIL		Status: APPROVAL
Project Name: NORTHCREST - Q100 FLOOD DEPTH BERRIMAH, NT 0828	Designed By: SW	Checked By: SW	Approved By: DG
	Project No.: 20172	Drawn By: DL	Scale at A1: 1:2500

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Title: STORMWATER DRAINAGE
100 YEAR FLOOD SCHEMATIC
NORTHERN PRECINCT

Drawing No.: SK1000
Revision: A

PLOT DATE: 7/25/2024 5:35 PM FILENAME: J:\DWN\20000\20172\006 - SUBDIVISION\CVL\DWG\Q100 FLOOD DEPTHS\20172_SK1000_STORMWATER DRAINAGE 100 YEAR FLOOD SCHEMATIC NORTHERN PRECINCT.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTE:
REFER TO DRG SK1000 FOR LEGEND

N

REFER TO DRG SK1000 FOR CONTINUATION

TIGER BRENNAN DRIVE

ISSUED FOR
APPROVAL

Rev	Date	Description	By	Chk
A	25.07.24	ISSUED FOR APPROVAL	DL	SW

0 50 100 150m
SCALE 1:2500
AT ORIGINAL SIZE (A1)

DCOH

NORTH CREST

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Quality Assurance ISO 9001:2015 | Work Health Safety ISO 45001:2018
Environmental Management ISO 14001:2015

Client: DCOH LAND PTY LTD

Project Name: NORTHCREST - Q100 FLOOD DEPTH
BERRIMAH, NT 0828

Discipline		Status
CIVIL		APPROVAL
Designed By	Checked By	Approved By
SW	SW	DG
Project No.	Drawn By	Scale at A1
20172	DL	1:2500

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Title: STORMWATER DRAINAGE
100 YEAR FLOOD SCHEMATIC
SOUTHERN PRECINCT

Drawing No.: SK1001
Revision: A

PLOT DATE: 7/25/2024 5:33 PM FILENAME: J:\DWN\20000\20172\006 – SUBDIVISION\CVL\DWG\Q100 FLOOD DEPTHS\20172_SK1001_STORMWATER DRAINAGE 100 YEAR FLOOD SCHEMATIC SOUTHERN PRECINCT.DWG

FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

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