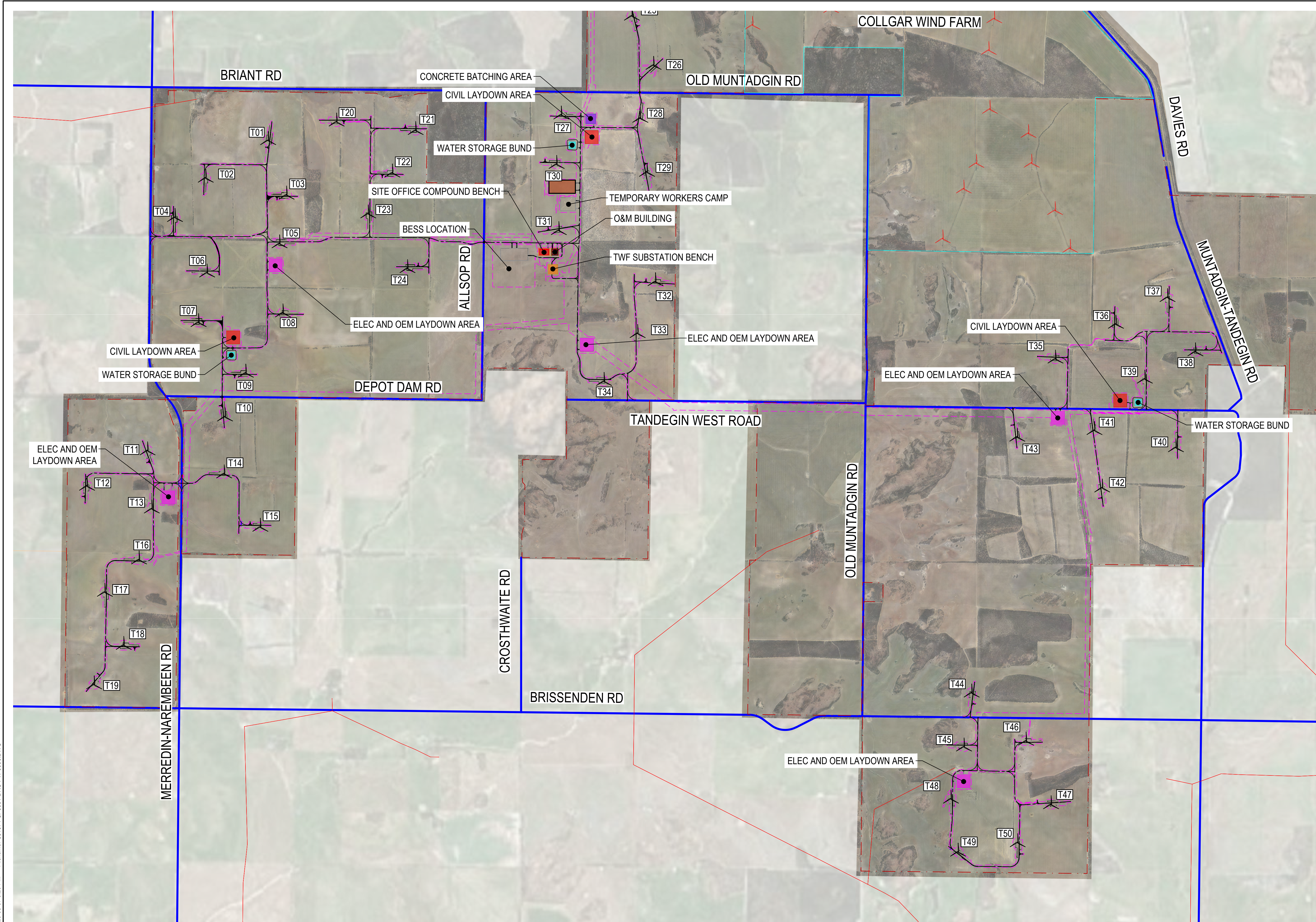




SITE PLAN
1:30000

NOTE:
1. LOCATION OF LAYDOWN AREAS TO BE CONFIRMED BY THE
SELECTED TURBINE SUPPLIER DURING DETAILED DESIGN.

TURBINE LAYOUT		
TURBINE ID	EASTING	NORTHING
T01	633667.344	6498619.584
T02	632723.000	6498051.000
T03	633946.000	6497795.000
T04	632257.569	6497454.942
T05	633840.000	6497058.000
T06	632743.662	6496616.275
T07	632614.026	6495865.751
T08	633891.093	6496011.266
T09	633329.091	6495100.000
T10	633015.062	6494436.143
T11	631843.000	6493924.000
T12	630926.941	6493388.106
T13	631907.487	6493043.303
T14	633002.000	6493575.000
T15	633548.950	6492767.167
T16	631713.959	6492273.033
T17	631197.000	6491782.000
T18	631482.000	6490979.000
T19	631035.000	6490382.000
T20	634702.639	6498900.704
T21	635899.000	6498772.000
T22	635547.000	6498129.000
T23	635181.552	6497509.896
T24	635775.834	6496681.701
T25	639171.301	6500503.688
T26	639498.925	6499759.141
T27	638103.000	6499007.000
T28	639297.866	6498957.091
T29	639399.802	6498140.271
T30	638032.074	6498259.223
T31	638065.840	6497257.734
T32	639527.816	6496483.277
T33	639258.000	6495699.000
T34	638749.649	6494973.782
T35	645580.280	6495312.376
T36	646494.921	6495839.789
T37	647275.638	6496244.055
T38	647697.985	6495422.078
T39	646932.162	6495008.829
T40	647402.608	6493970.926
T41	646170.596	6494230.720
T42	646288.272	6493361.428
T43	645002.000	6494131.000
T44	644312.254	6490257.945
T45	644196.508	6489440.736
T46	645134.900	6489529.434
T47	645513.521	6488566.528
T48	643998.854	6488652.006
T49	644107.332	6487849.067
T50	645008.000	6487991.000

- LEGEND
- T01 PROPOSED TURBINE LOCATION
 - PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - DISTURBANCE FOOTPRINT
 - EXISTING ROADS
 - CWF BOUNDARY
 - EXISTING ELECTRICAL
 - LGA TOWNSITES
 - EXISTING TURBINE

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
			531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-23	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B
B	2026-08-07	ISSUED FOR REVIEW	B	N.C	H.P	L.K	O.B



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CERTIFICATION	No.	CERTIFIER	DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-000-ENG-LAY-0001-00

REV

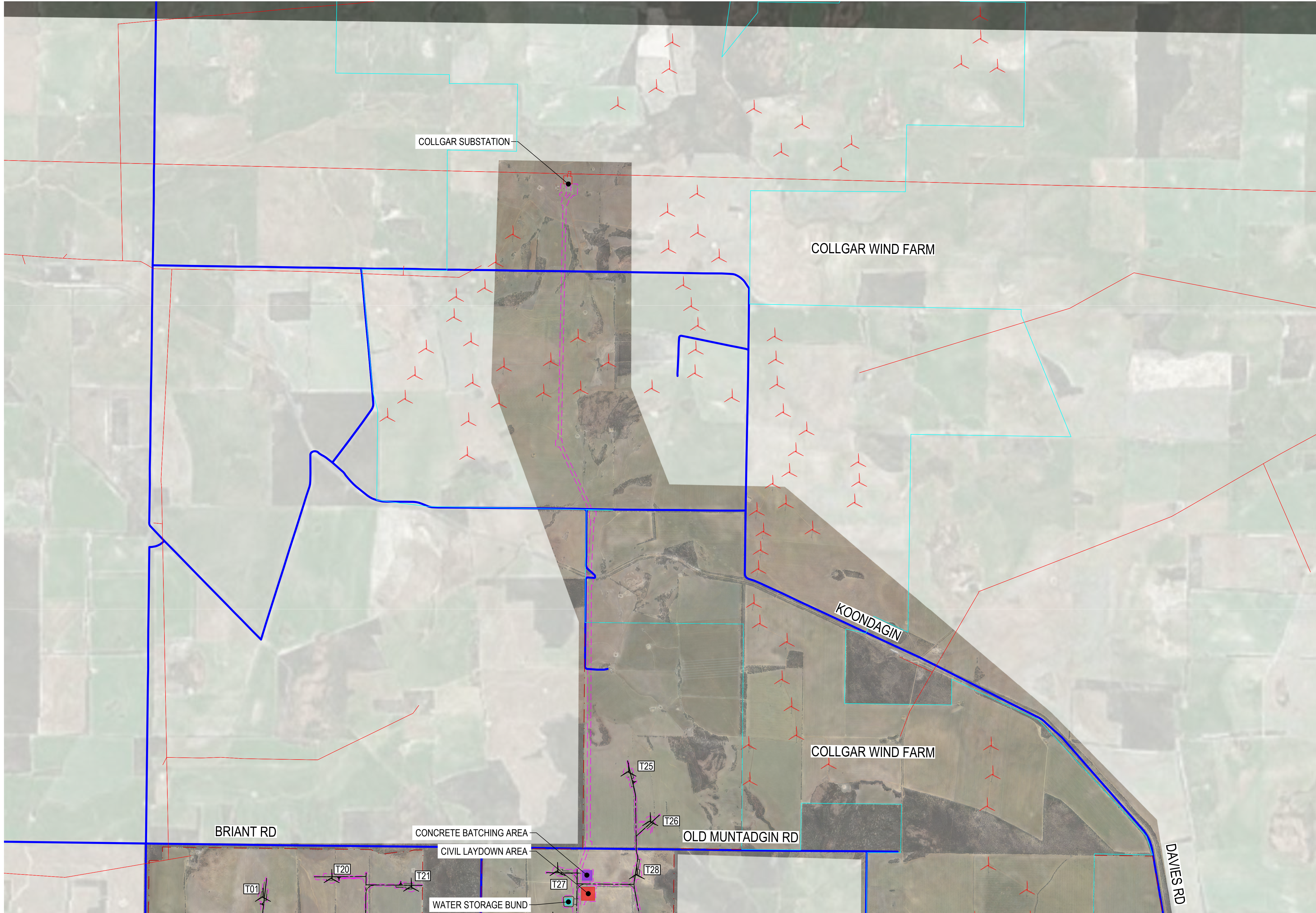
All written dimensions take precedence over scaled dimensions.

Coordinate system MGA50 GDA2020
Height datum AHD

PRINT ALL COPIES IN COLOUR

CONSTRUCTION STATUS	
NOT FOR CONSTRUCTION	
DRAWN BY	T.PHAM
DESIGNED BY	H.PACKER
STATUS	CODE
CONCEPT DESIGN AND PLANNING	A2
DOCUMENT STATE	PUBLISHED

PROJECT			
TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
TITLE			
TANDEGIN WIND FARM PROJECT LAYOUT SHEET 1			
DOCUMENT CODE			
531071-SP0001-DRG-PW-0006			
SCALE	SIZE	REFERENCE No.	REV
AS SHOWN	A1	DRG-PW-0006	B



NOTE:
1. LOCATION OF LAYDOWN AREAS TO BE CONFIRMED BY THE
SELECTED TURBINE SUPPLIER DURING DETAILED DESIGN.

- LEGEND
- PROPOSED TURBINE LOCATION
 - PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - DISTURBANCE FOOTPRINT
 - EXISTING ROADS
 - CWF BOUNDARY
 - EXISTING ELECTRICAL
 - LGA TOWNSITES
 - EXISTING TURBINE

SITE PLAN
1:30000

REFERENCE DRAWINGS			REFERENCE MODELS			
			531071-SP0001-MDA-PW-0023 531071-SP0001-MDA-PW-0024			
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED
A	2026-07-23	ISSUED FOR REVIEW	A	T.P	H.P	L.K
B	2026-08-07	ISSUED FOR REVIEW	B	NC.	H.P	L.K
			APPROVED			



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CERTIFICATION	No.	CERTIFIER	DATE

CLIENT

COLLGAR
RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-000-ENG-LAY-0001-00

REV

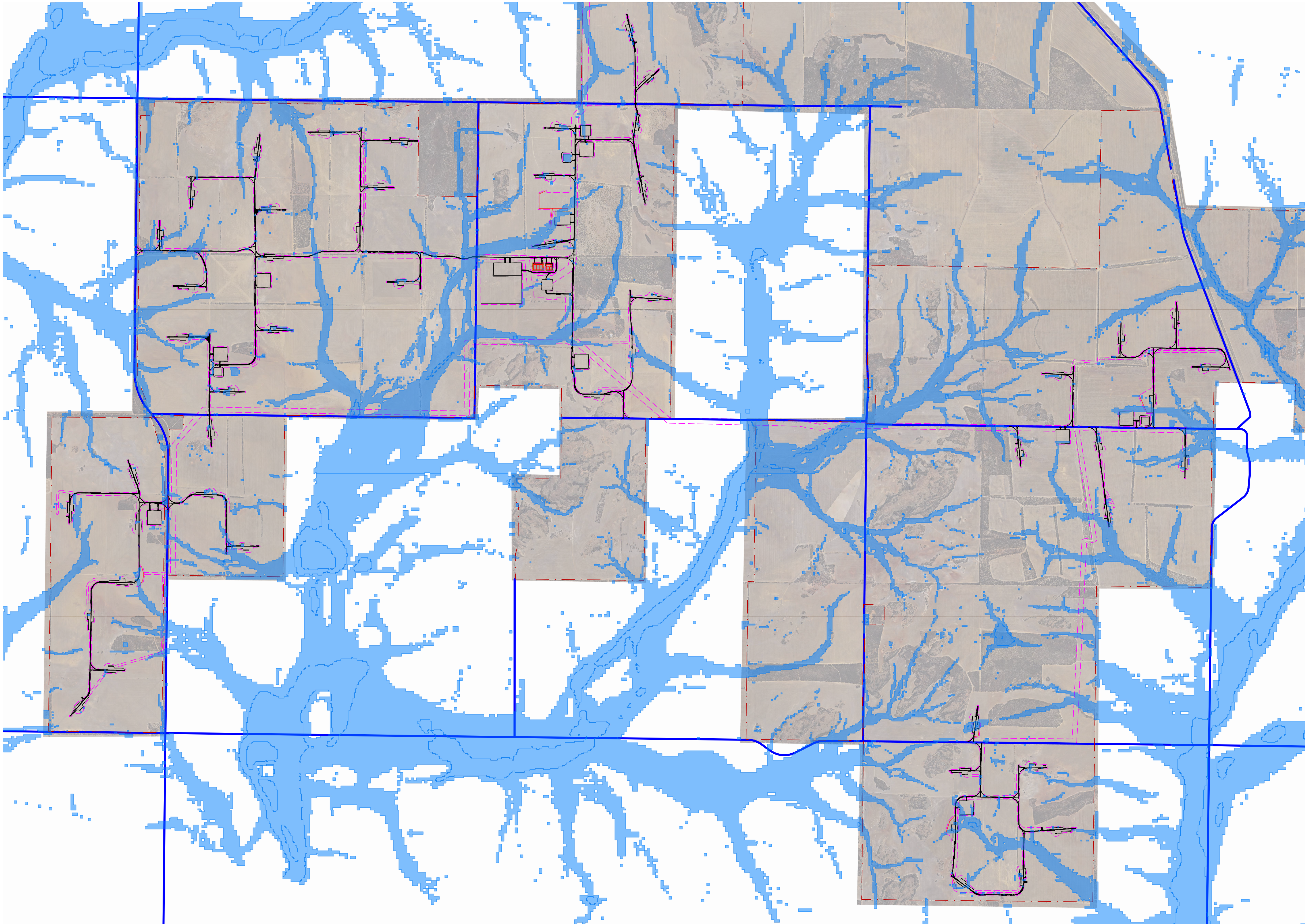
All written dimensions
take precedence over
scaled dimensions.

Coordinate system
MGA50 GDA2020
Height datum
AHD

PRINT ALL COPIES
IN COLOUR

CONSTRUCTION STATUS	
NOT FOR CONSTRUCTION	
DRAWN BY T.PHAM	
DESIGNED BY H.PACKER	
STATUS CONCEPT DESIGN AND PLANNING	CODE A2
DOCUMENT STATE PUBLISHED	

PROJECT			
TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
TITLE			
TANDEGIN WIND FARM PROJECT LAYOUT SHEET 2			
DOCUMENT CODE			
531071-SP0001-DRG-PW-0007			
SCALE	SIZE	REFERENCE No.	REV
AS SHOWN	A1	DRG-PW-0007	B



- LEGEND**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - DISTURBANCE FOOTPRINT
 - EXISTING ROADS
 - EXISTING ELECTRICAL
 - CWF BOUNDARY
 - LGA TOWNSITES
 - 1% AEP FLOOD EXTENT

NOTE:

1. WORKS CROSSING EXISTING IRRIGATION INFRASTRUCTURE IS INDICATIVE. THE LOCATION AND FUNCTION OF EXISTING IRRIGATION INFRASTRUCTURE IS TO BE IDENTIFIED DURING DETAILED DESIGN. EXISTING INFRASTRUCTURE TO BE RETAINED IS TO BE CONSIDERED IN THE DETAILED DESIGN.

CULVERT LAYOUT		
CULVERT ID	DRAWING NO.	CULVERT SIZE
CUL-001	531071-SP0001-DRG-PW-0102	4-450mm Ø
CUL-002	531071-SP0001-DRG-PW-0102	13-450mm Ø
CUL-003	531071-SP0001-DRG-PW-0103	2-450mm Ø
CUL-004	531071-SP0001-DRG-PW-0103	3-450mm Ø
CUL-005	531071-SP0001-DRG-PW-0107	6-450mm Ø
CUL-006	531071-SP0001-DRG-PW-0108	4-450mm Ø
CUL-007	531071-SP0001-DRG-PW-0110	1-450mm Ø
CUL-008	531071-SP0001-DRG-PW-0110	4-450mm Ø
CUL-009	531071-SP0001-DRG-PW-0112	1-450mm Ø
CUL-010	531071-SP0001-DRG-PW-0113	1-450mm Ø
CUL-011	531071-SP0001-DRG-PW-0113	1-450mm Ø
CUL-012	531071-SP0001-DRG-PW-0110	1-450mm Ø

DRAINAGE PLAN
1:30000

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
			531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	A.S	P.H	O.B



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CERTIFICATION	No.	CERTIFIER	DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-000-CIV-LAY-0002-00

REV

All written dimensions take precedence over scaled dimensions.

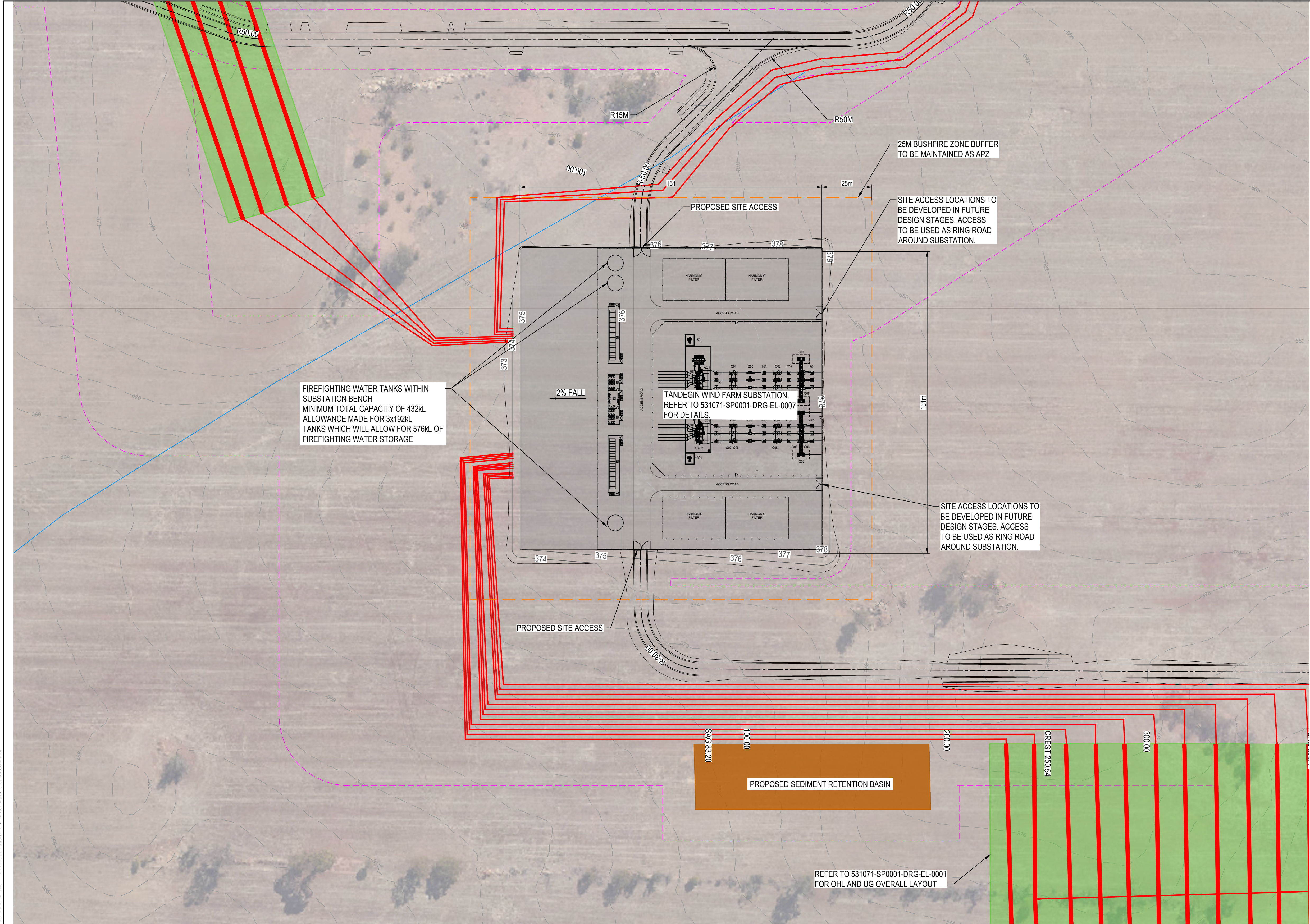
Coordinate system
MGA50 GDA2020

Height datum
AHD

PRINT ALL COPIES IN COLOUR

CONSTRUCTION STATUS	
NOT FOR CONSTRUCTION	
DRAWN BY	T.PHAM
DESIGNED BY	A.SALVADOR
STATUS	CONCEPT DESIGN AND PLANNING
DOCUMENT STATE	PUBLISHED

PROJECT			
TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
TITLE			
TANDEGIN WIND FARM CIVIL WORKS DRAINAGE AND CATCHMENT LOCATIONS			
DOCUMENT CODE			
531071-SP0001-DRG-PW-0400			
SCALE	SIZE	REFERENCE No.	REV
AS SHOWN	A1	DRG-PW-0400	A



LEGEND

PROJECT BOUNDARY

OVERHEAD LINE EASEMENT

WATERCOURSE

DISTURBANCE FOOTPRINT

DESIGN CONTOURS

EXISTING CONTOURS

BUSH FIRE ZONE BUFFER

SECURITY FENCE

GATE

CABLE RETICULATION

OHL EASEMENT

NOTE

220 kV TRANSMISSION OHL LAYOUT REFER TO 531071-SP0001-DRG-EL-0010

Plot Date: 2026-07-13 3:45 PM Filename: 531071-SP0001-DRG-PW-0300.DWG

SITE PLAN

SCALE 1:1000

REFERENCE DRAWINGS

531071-SP0001-DRG-PW-0003
531071-SP0001-DRG-PW-0004
531071-SP0001-DRG-PW-0114
531071-SP0001-DRG-PW-0400
531071-SP0001-DRG-PW-0401

REFERENCE MODELS

531071-SP0001-MDA-PW-0023
531071-SP0001-MDA-PW-0024

100 0 20 40 m

1:1000

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CLIENT

COLLGAR RENEWABLES

Coordinate system
MGA50 GDA2020

Height datum
AHD

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CONSTRUCTION STATUS

NOT FOR CONSTRUCTION

DRAWN BY

N.CULSHAW

DESIGNED BY

H.PACKER

STATUS

CONCEPT DESIGN AND PLANNING

DOCUMENT STATE

PUBLISHED

PROJECT

TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE

TANDEGIN WIND FARM
CIVIL WORKS
TWF SUBSTATION BENCH LAYOUT

DOCUMENT CODE

531071-SP0001-DRG-PW-0300

SCALE

1:500

SIZE

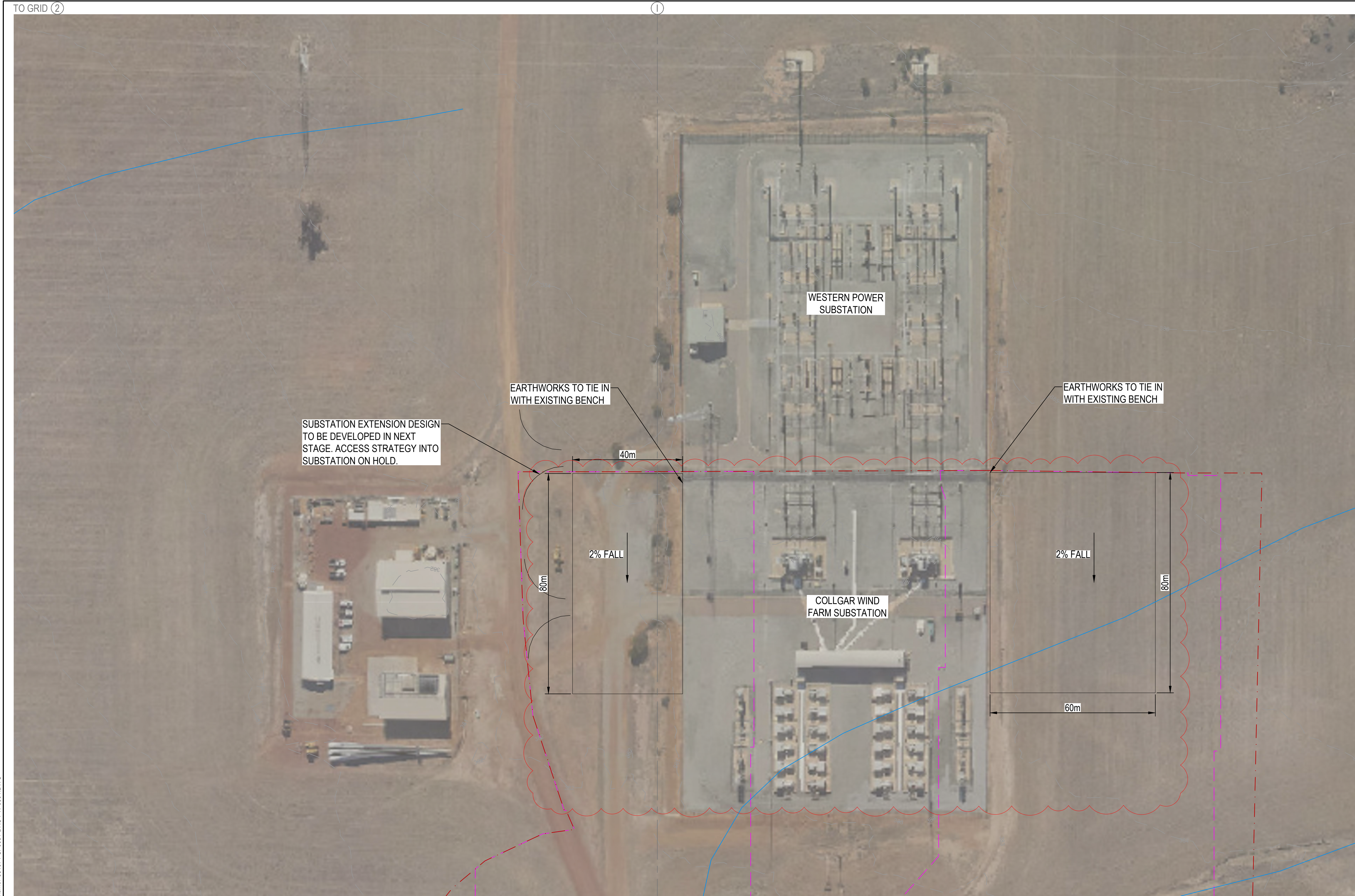
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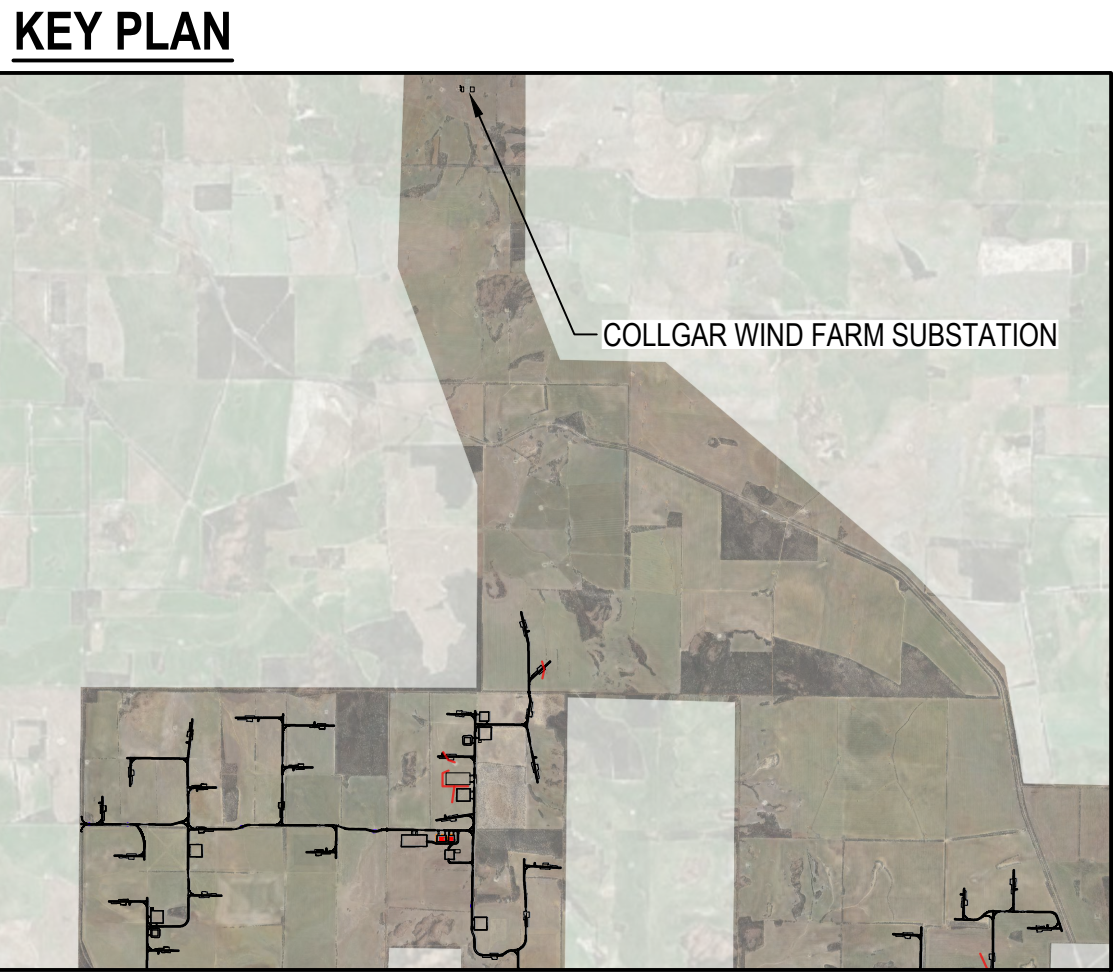
DRG-PW-0300

REV

A



- LEGEND**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - WATERCOURSE
 - DISTURBANCE FOOTPRINT
 - EXISTING CONTOURS
 - EXISTING ROADS
 - SECURITY FENCE
 - GRID LINES



SITE PLAN
SCALE 1:750

REFERENCE DRAWINGS
COLLGAR WIND FARM 220/33kV SUBSTATION COL-C-5331
COLLGAR WIND FARM WESTERN POWER SUBSTATION EARTHWORKS PLAN COL-C-5321

REFERENCE MODELS
531071-SP0001-MDA-PW-0023 - CIVIL DESIGN SURFACE MODEL
531071-SP0001-MDA-PW-0024 - CIVIL DESIGN STRINGS MODEL

REV	DATE	REVISION DETAILS
A	2026-08-26	ISSUED FOR REVIEW

REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	N.C	H.P	T.D	D.D

7.50 0 15 30 m
1:750

PREPARED BY

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CERTIFICATION
No. CERTIFIER DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-061-CIV-LAY-0002-00

REV

N

Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS
NOT FOR CONSTRUCTION

DRAWN BY
N.CULSHAW

DESIGNED BY
H.PACKKEER

STATUS
CONCEPT DESIGN AND PLANNING

CODE
A2

DOCUMENT STATE
PUBLISHED

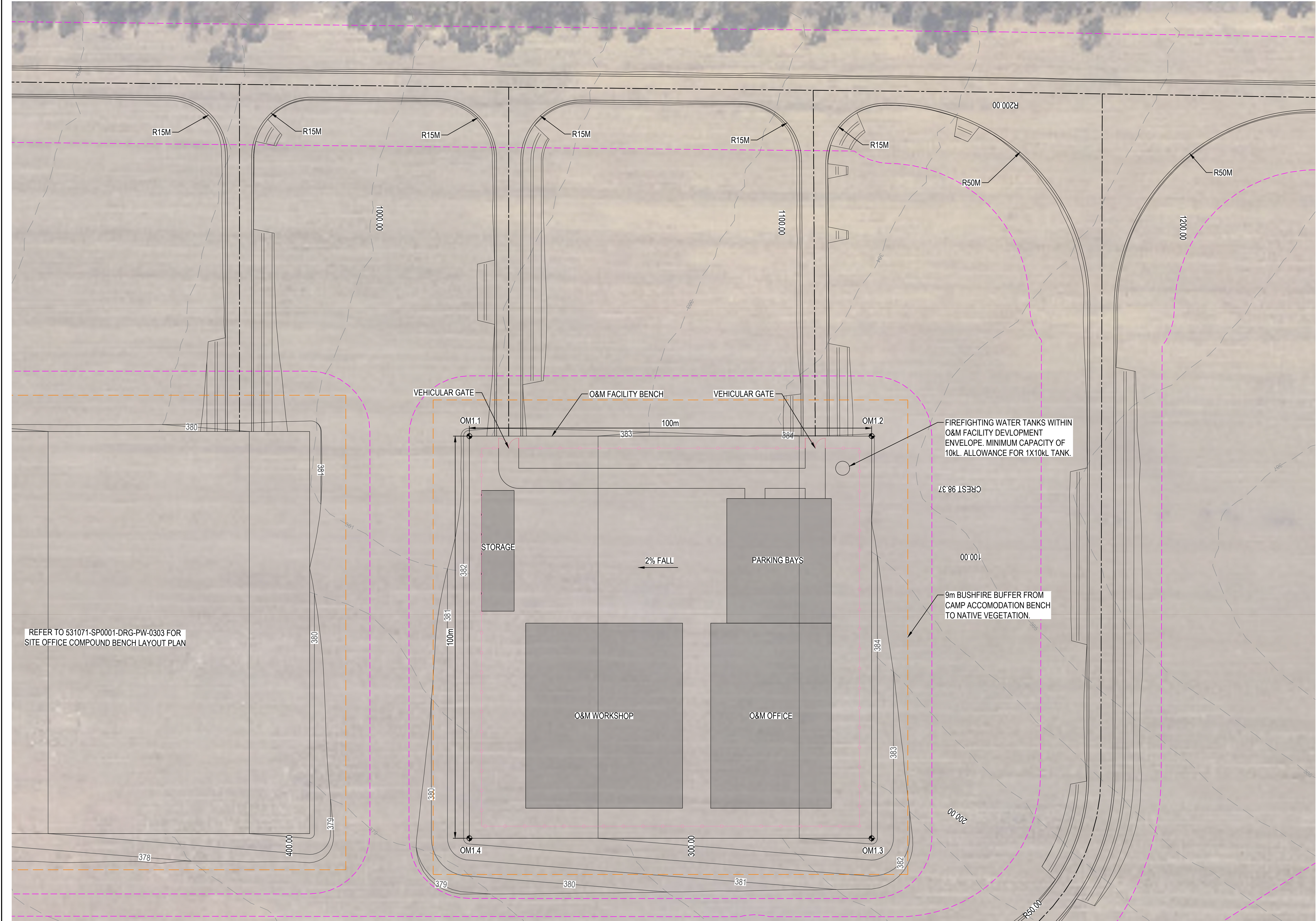
PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
CIVIL WORKS
CWF SUBSTATION BENCH EXTENSION

DOCUMENT CODE
531071-SP0001-DRG-PW-0301

SCALE	SIZE	REFERENCE No.	REV
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Plot Date: 2026-07-13 3:43 PM Filename: 531071-SP0001-DRG-PW-0302.DWG



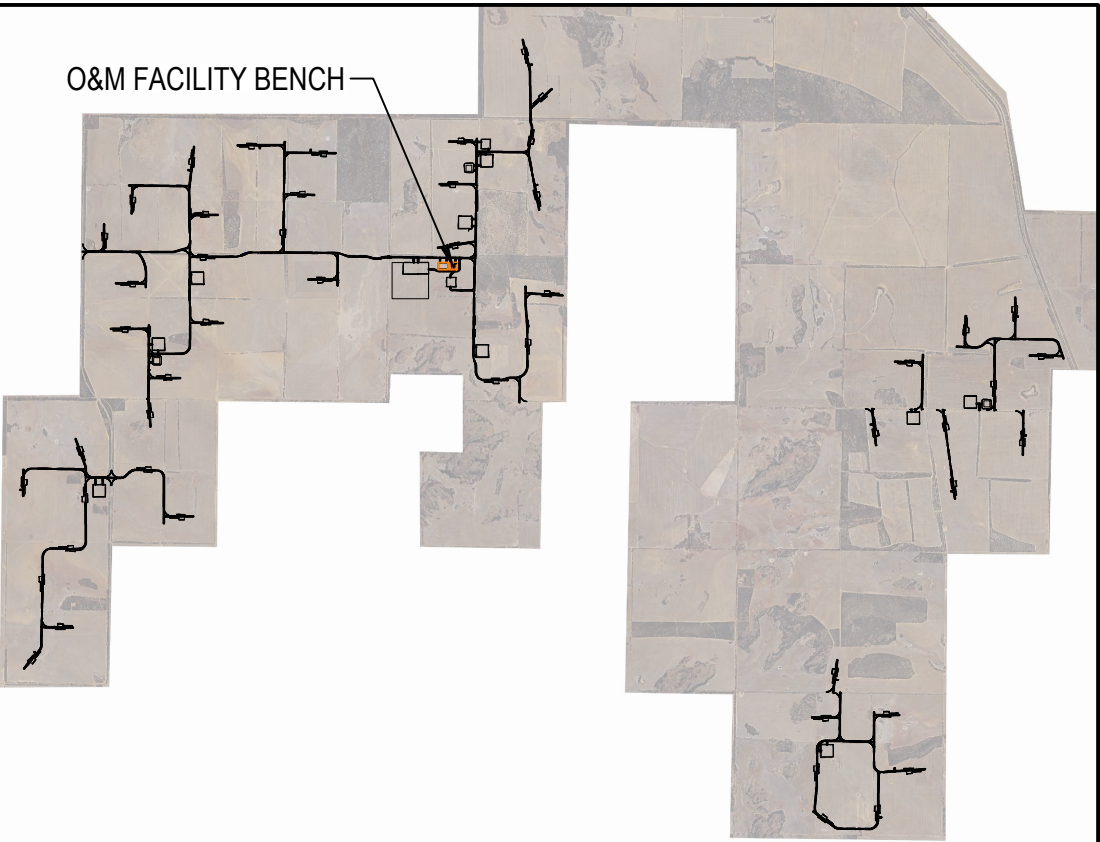
REFER TO 531071-SP0001-DRG-PW-0303 FOR
SITE OFFICE COMPOUND BENCH LAYOUT PLAN

- LEGEND**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - WATERCOURSE
 - DISTURBANCE FOOTPRINT
 - EXISTING CONTOURS
 - BUFFER ZONE
 - EXISTING ROADS
 - SECURITY FENCE
 - GATE
 - HARD STAND
 - WIND TURBINE GENERATOR

O&M FACILITY BENCH
SETOUT

SETOUT POINT	EASTING	NORTHING	RL
OM1.1	637955.953	6496977.577	382.36
OM1.2	638055.953	6496977.577	384.36
OM1.3	638055.953	6496877.577	384.36
OM1.4	637955.953	6496877.577	382.36

PROJECT OVERVIEW



REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023 531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	N.C	H.P	L.K	O.B

5 0 10 20 m
1:500

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CERTIFICATION	No.	CERTIFIER	DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-110-CIV-LAY-0001-00

REV

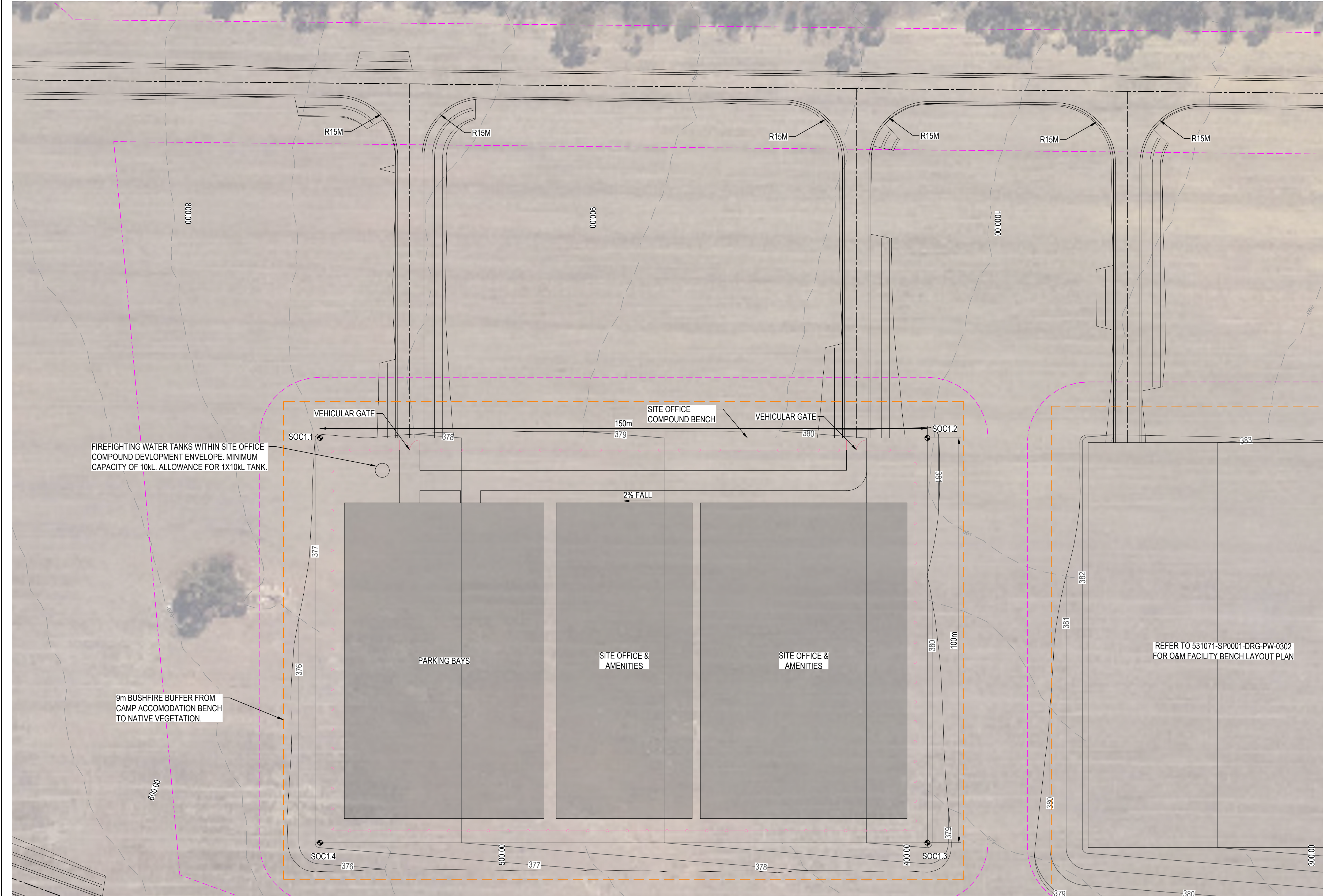
All written dimensions take precedence over scaled dimensions.

Coordinate system
MGA50 GDA2020
Height datum
AHD

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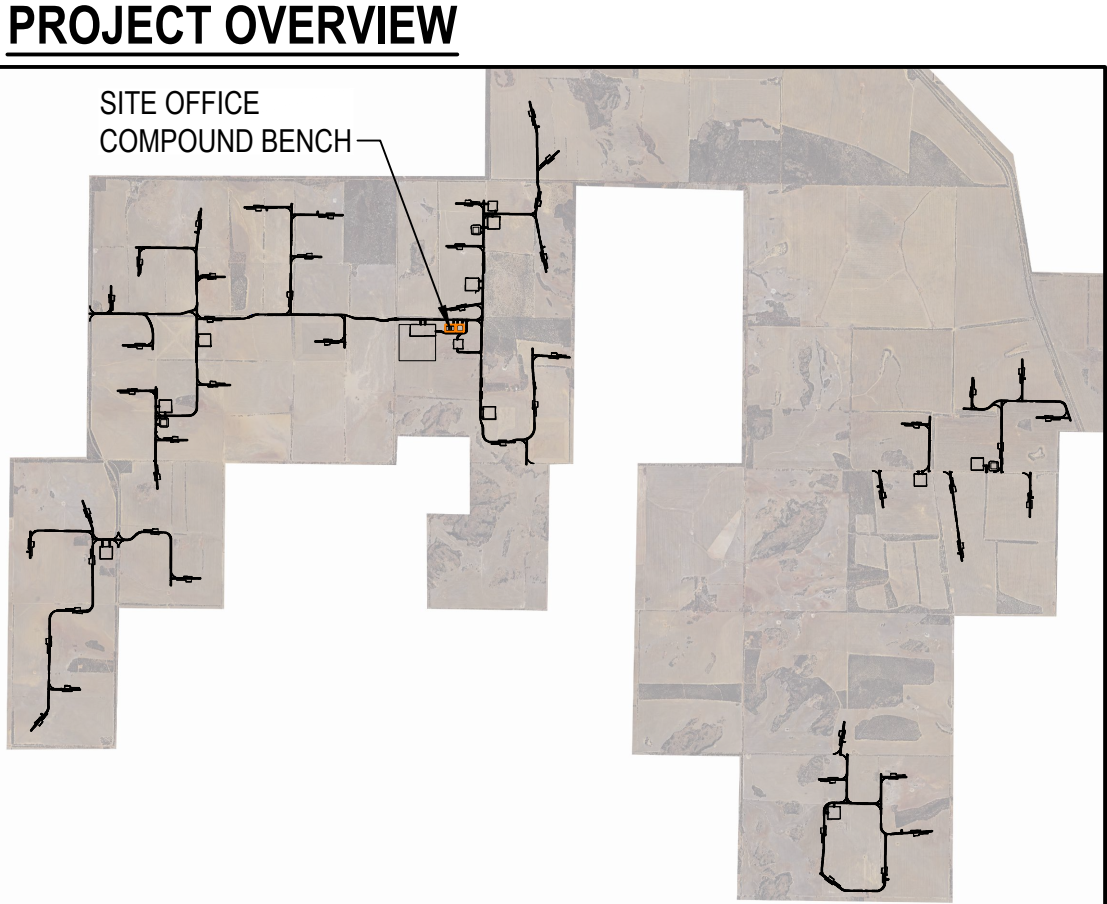
CONSTRUCTION STATUS	
NOT FOR CONSTRUCTION	
DRAWN BY	N.CULSHAW
DESIGNED BY	H.PACKER
STATUS	CONCEPT DESIGN AND PLANNING
DOCUMENT STATE	PUBLISHED

PROJECT			
TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
TITLE			
TANDEGIN WIND FARM CIVIL WORKS O&M FACILITY BENCH LAYOUT PLAN			
DOCUMENT CODE			
531071-SP0001-DRG-PW-0302			
SCALE	SIZE	REFERENCE No.	REV
1:300	A1	DRG-PW-0302	A



- LEGEND
- PROJECT BOUNDARY
- NEW ACCESS ROADS
- NATIVE VEGETATION EXTENT
- DISTRIBUTION OVERHEAD POWERLINES
- WATERCOURSE
- DISTURBANCE FOOTPRINT
- EXISTING CONTOURS
- BUFFER ZONE
- EXISTING ROADS
- SECURITY FENCE
- GATE
- HARD STAND
- WIND TURBINE GENERATOR

SITE OFFICE COMPOUND BENCH SETOUT			
SETOUT POINT	EASTING	NORTHING	RL
SOC1.1	637766.235	6496978.733	377.30
SOC1.2	637916.235	6496978.733	380.30
SOC1.3	637916.235	6496878.733	380.30
SOC1.4	637766.235	6496878.733	377.30



REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023 531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	N.C	H.P	L.K	O.B

5020 m

1:500

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CERTIFICATION

No.

CERTIFIER

DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER

TWF-PG2010-800-CIV-LAY-0001-00

REV

All written dimensions take precedence over scaled dimensions.

N

Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS

NOT FOR CONSTRUCTION

DRAWN BY

N.CULSHAW

DESIGNED BY

H.PACKER

STATUS

CONCEPT DESIGN AND PLANNING

DOCUMENT STATE

PUBLISHED

PROJECT

TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE

TANDEGIN WIND FARM
CIVIL WORKS
SITE OFFICE COMPOUND BENCH LAYOUT

DOCUMENT CODE

531071-SP0001-DRG-PW-0303

SCALE

1:400

SIZE

A1

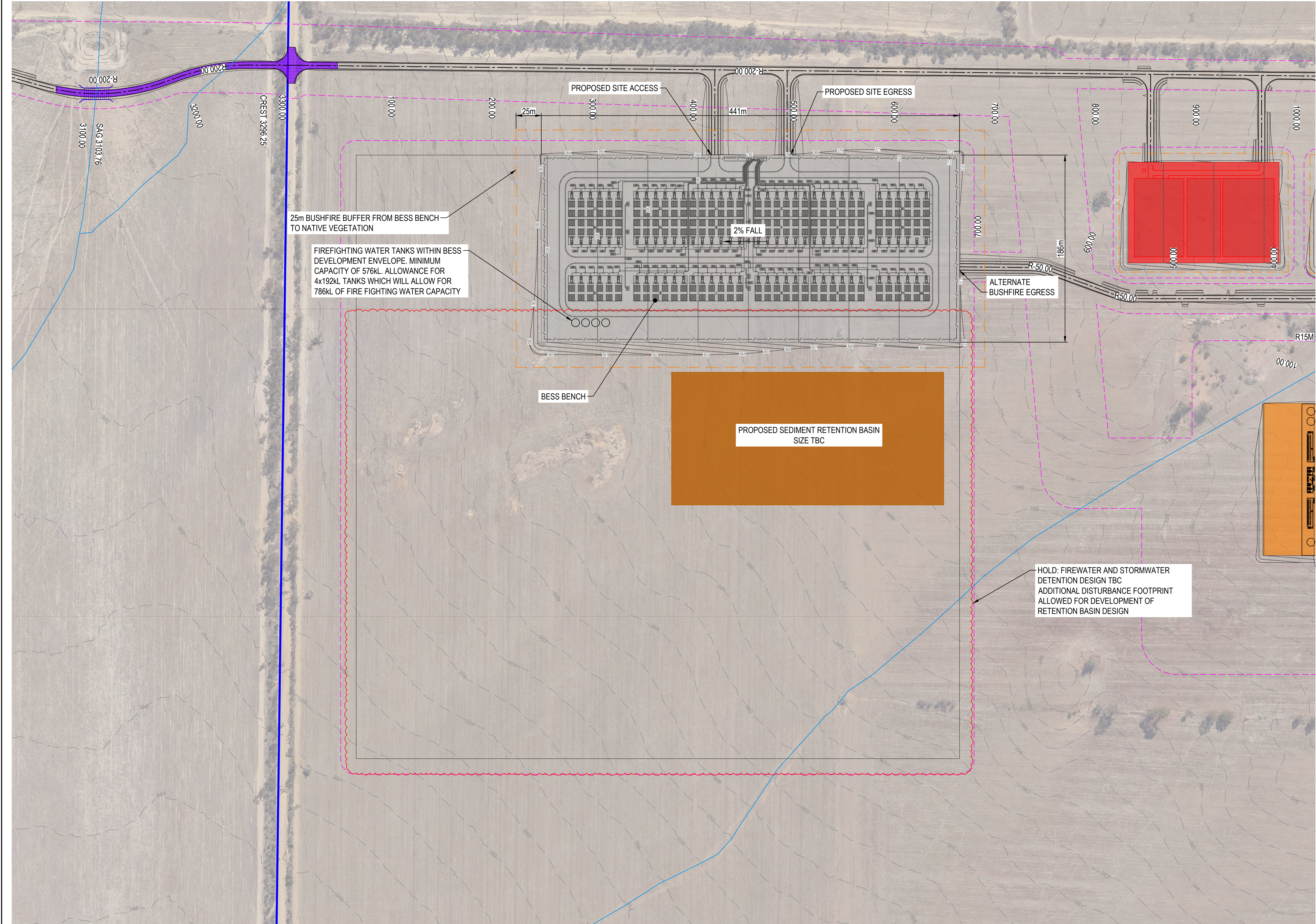
REFERENCE No.

DRG-PW-0303

REV

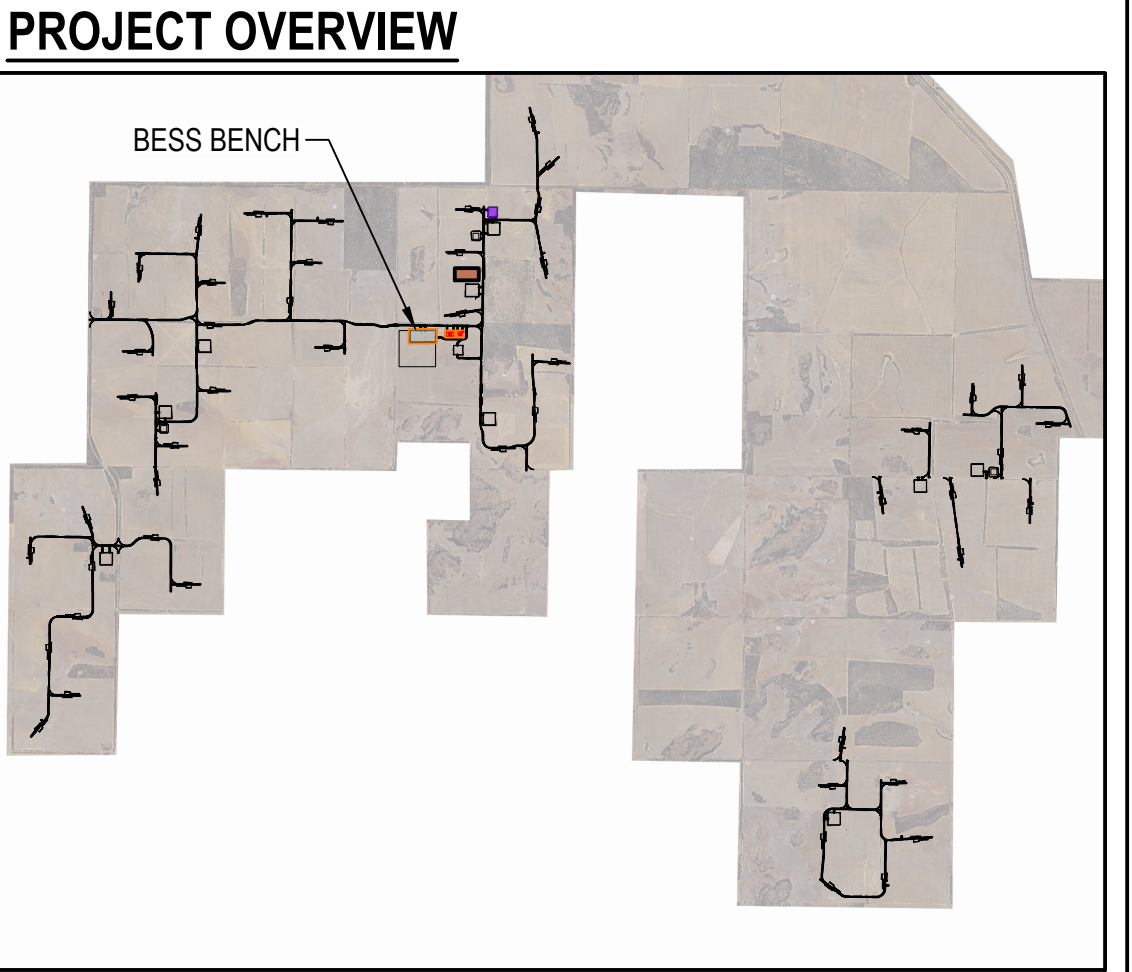
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Plot Date: 2026-07-13 3:43 PM Filename: 531071-SP0001-DRG-PW-0304.DWG



LEGEND

- PROJECT BOUNDARY
- DISTRIBUTION OVERHEAD POWERLINES
- WATERCOURSE
- SURVEY FOOTPRINT
- EXISTING CONTOURS
- 372 DESIGN CONTOURS
- SECURITY FENCE
- BUSH FIRE ZONE BUFFER
- EXISTING ROADS
- GATE
- CIVIL LAYDOWN AREA
- SUBSTATION



SITE PLAN
SCALE 1:2000

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
			531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	N.C	H.P	L.K	O.B

20 0 40 80 m
1:2000

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CERTIFICATION No. CERTIFIER DATE

CLIENT
COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-200-CIV-LAY-0001-00

REV

All written dimensions take precedence over scaled dimensions.

Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS
NOT FOR CONSTRUCTION

DRAWN BY
N.CULSHAW

DESIGNED BY
H.PACKER

STATUS
CONCEPT DESIGN AND PLANNING

DOCUMENT STATE
PUBLISHED

CODE
A2

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
CIVIL WORKS
BESS BENCH LAYOUT PLAN

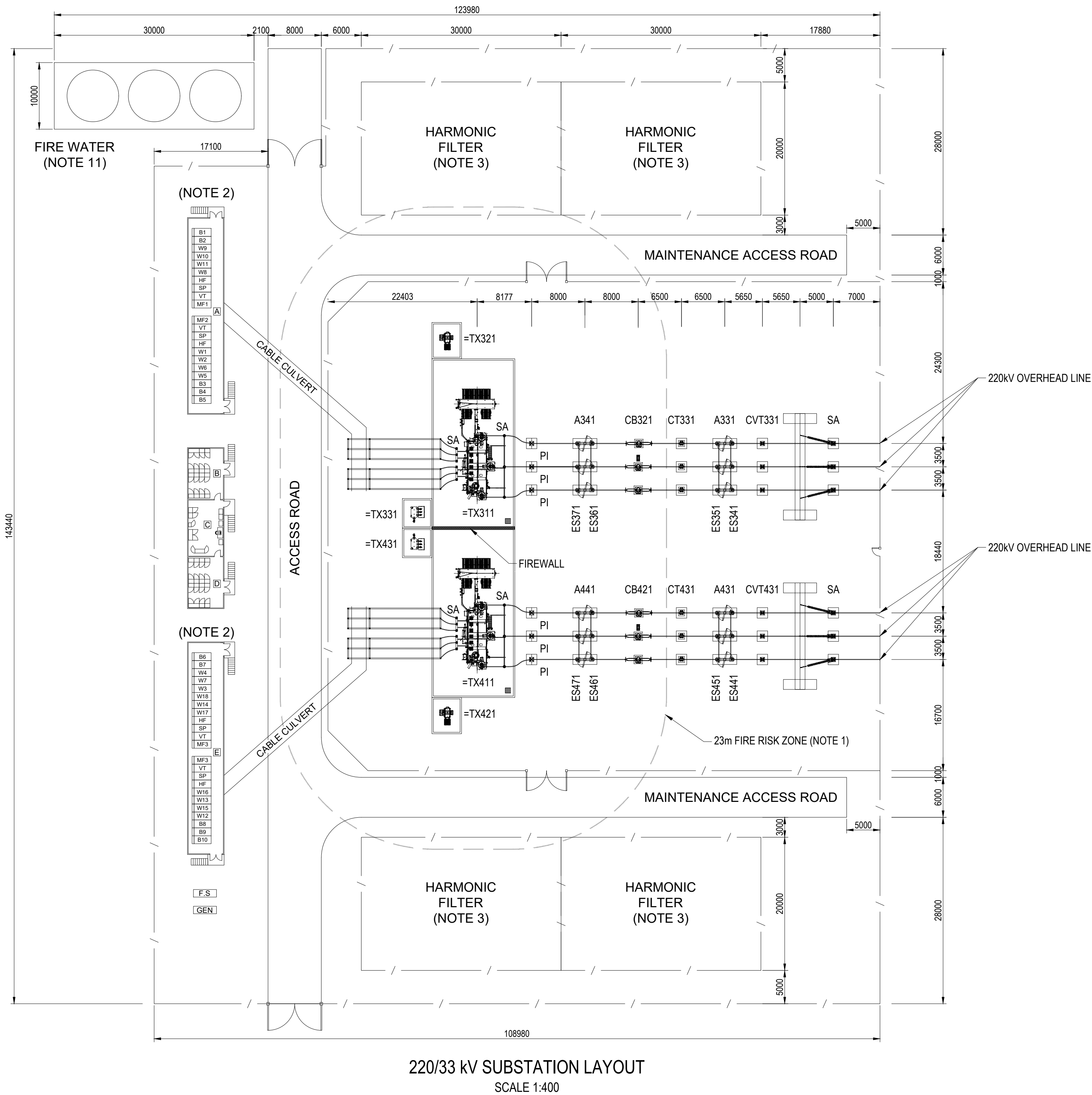
DOCUMENT CODE
531071-SP0001-DRG-PW-0304

SCALE
1:1500

SIZE
A1

REFERENCE No.
DRG-PW-0304

REV
A



EQUIPMENT ID TABLE	
=TX311 & =TX411	POWER TRANSFORMER
=TX331 & =TX431	NEUTRAL EARTHING TRANSFORMER
=TX321 & =TX421	NEUTRAL EARTHING / AUXILIARY TRANSFORMER
CB321 & CB421	CIRCUIT BREAKER
A331, A341, A431 & A441	DISCONNECTOR
ES341, ES351, ES361, ES371, ES441, ES451, ES461 & ES471	EARTH SWITCH
CT331 & CT431	CURRENT TRANSFORMER
CVT331 & CVT431	VOLTAGE TRANSFORMER
SA	SURGE ARRESTER
PI	POST INSULATOR
B1, B2, B3, B4, B5, B6, B7, B8, B9, B10	BESS FEEDERS
W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18	WTG COLLECTOR GROUP FEEDERS
SW1, SW2, SW3, SW4	SWITCHBOARDS
F.S.	FUEL STORAGE
GEN	AUXILIARY GENERATOR

LEGEND:

———— SUBSTATION FENCE

NOTES:

- LAYOUT IS PRELIMINARY AND SHALL BE FINALISED DURING DETAIL DESIGN.
- SWITCHROOM DIMENSION IS PRELIMINARY AND SHALL BE FINALIZED DURING DETAIL DESIGN.
- HARMONIC FILTER SPACE IS INDICATIVE ONLY AND SHALL BE FINALIZED DURING DETAIL DESIGN.
- THE LOCATION OF ACCESS GATE(S) AND INTERNAL MATERIAL TRANSPORT ROAD IS PROVISIONAL AND MAY BE REVISED DURING DETAILED DESIGN BASED ON FINAL MICROSITING OF THE SUBSTATION.
- THIS LAYOUT IS BASED ON THE PREVIOUSLY SUPPLIED CONCEPT LAYOUT AND HAS BEEN UPDATED WITH THE LATEST DESIGN UNDERSTANDING.
- WTG AND BESS WILL BE CONNECTED AT 33kV SWITCHGEAR SW1, SW2, SW3 & SW4.
- SWITCHROOM INTERNAL DIMENSIONS:
A: L=25284 x W=5435
E: L=27284 x W=5435
- SWITCHGEAR SIZING AND CLEARANCES BASED OFF THE SIEMENS NXAI-H AS PER CLIENT REQUEST FOR CONFIRMATION OF SWITCHGEAR CABLE ACCOMMODATION.
- 2000mm CLEARANCE BETWEEN SWITCHBOARDS TO ALLOW FOR NON-STANDARD MAIN FEEDER SIZING.
- DETAILED SWITCHROOM DESIGN TO BE CONDUCTED DURING FURTHER DETAILED DESIGN.
- FIREWATER STORAGE TO CONTAIN A MINIMUM TOTAL OF 423KL.
- ASSET LABELLING HAS BEEN ASSUMED.

ROOM SCHEDULE

ITEM	DESCRIPTION
A	33kV SWITCH ROOM 1
B	CONTROL ROOM 1
C	PLANT CONTROL ROOM
D	CONTROL ROOM 2
E	33kV SWITCH ROOM 2

DESIGN AND SAFETY CLEARANCES

NOMINAL VOLTAGE Un	HIGHEST VOLTAGE Um r.m.s.	RATED SHORT DURATION POWER FREQUENCY WITHSTAND VOLTAGE Ud r.m.s.	RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE Up 1.2/50 µs (PEAK VALUE)	RATED SWITCHING IMPULSE WITHSTAND VOLTAGE Us PHASE-TO-EARTH 250/2500 µs (PEAK VALUE)	SHORT CIRCUIT WITHSTAND LEVEL kA	DESIGN CLEARANCES			GROUND SAFETY CLEARANCE
						PHASE-TO-EARTH CLEARANCE	PHASE-TO-PHASE CLEARANCE	NON-FLASHOVER DISTANCE	
kV r.m.s.	kV r.m.s.	kV r.m.s.	kV peak	kV peak	kA	mm	mm	mm	mm
33	36	70	200		25/1sec	380	440	420	2440
220	245	395	950		25/1sec	1900	2185	2015	2440

REFERENCE DRAWINGS			REFERENCE MODELS				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-20	ISSUED FOR REVIEW	A	LD	SG	JC	OB

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No.

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DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER

TWF-PG2010-020-ELE-LAY-0001-00

REV

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1:400

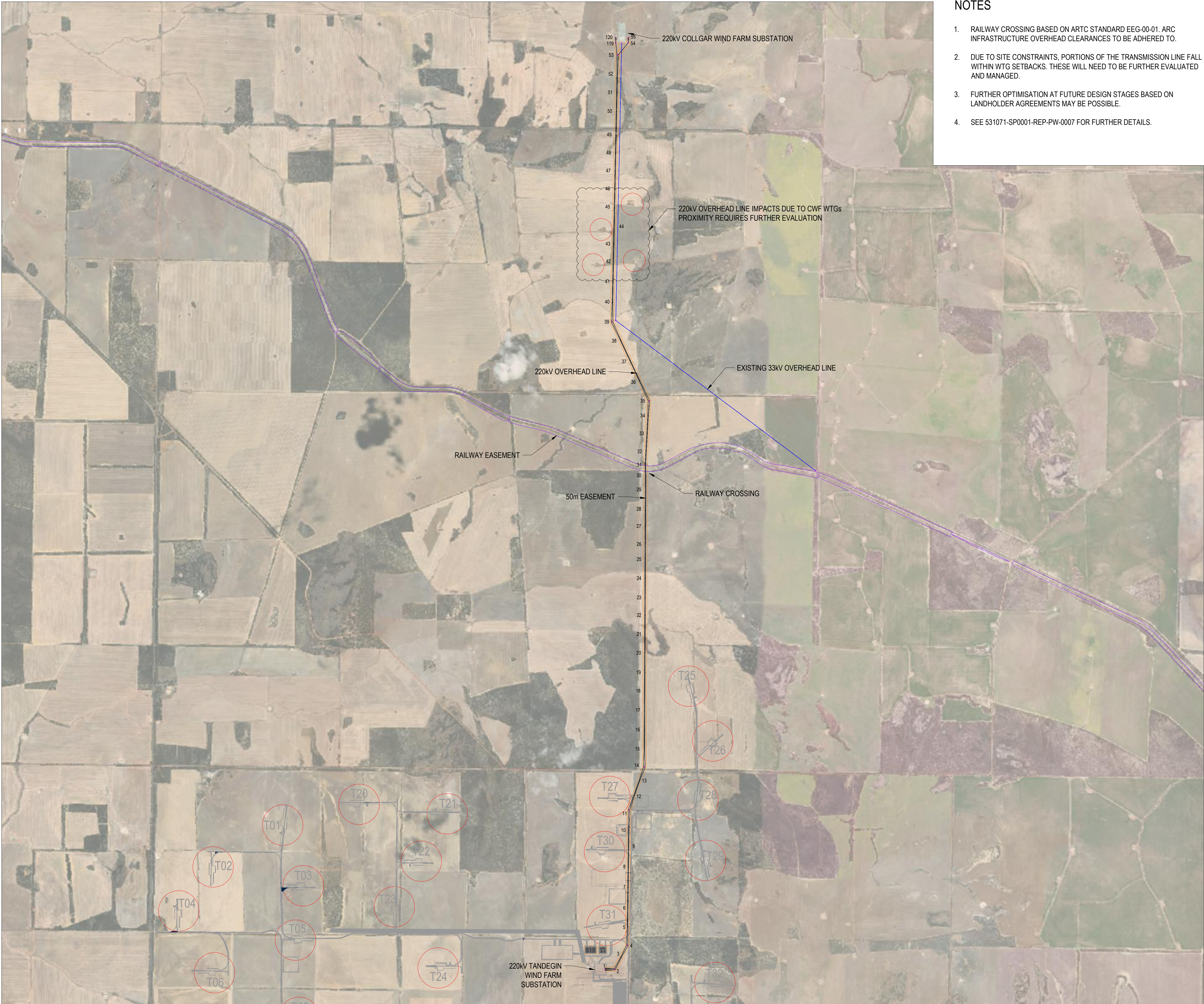
All written dimensions take precedence over scaled dimensions.

Coordinate system MGA2020 ZONE 50

Height datum AHD

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CONSTRUCTION STATUS		PROJECT			
NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY		TITLE			
L.DANG		220/33kV SUBSTATION GENERAL ARRANGEMENT			
DESIGNED BY		DOCUMENT CODE			
S.GILLILAND		531071-SP0001-DRG-EL-0007			
STATUS	CODE	SCALE	SIZE	REFERENCE No.	REV
CONCEPT DESIGN AND PLANNING	A2	1:400	A1	DRG-EL-0007	A
DOCUMENT STATE					
PUBLISHED					



NOTES

1. RAILWAY CROSSING BASED ON ARTC STANDARD EEG-00-01. ARC INFRASTRUCTURE OVERHEAD CLEARANCES TO BE ADHERED TO.
2. DUE TO SITE CONSTRAINTS, PORTIONS OF THE TRANSMISSION LINE FALL WITHIN WTG SETBACKS. THESE WILL NEED TO BE FURTHER EVALUATED AND MANAGED.
3. FURTHER OPTIMISATION AT FUTURE DESIGN STAGES BASED ON LANDHOLDER AGREEMENTS MAY BE POSSIBLE.
4. SEE 531071-SP0001-REP-PW-0007 FOR FURTHER DETAILS.

LEGEND

- XX ELECTRICAL POLE WITH POLE NUMBER
- NEW 220kV CONDUCTOR
- EXISTING 33kV CONDUCTOR
- 220kV EASEMENT
- RAILWAY EASEMENT
- WTG SETBACK

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Coordinate system
MGA2020 ZONE 50

Height datum
AHD

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REFERENCE DRAWINGS

REFERENCE MODELS

REV	DATE	REVISION DETAILS
A	2026-08-10	ISSUED FOR REVIEW

REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	LD	TS	JC	OB

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CERTIFICATION	No.	CERTIFIER	DATE

CLIENT

COLLGAR
RENEWABLES

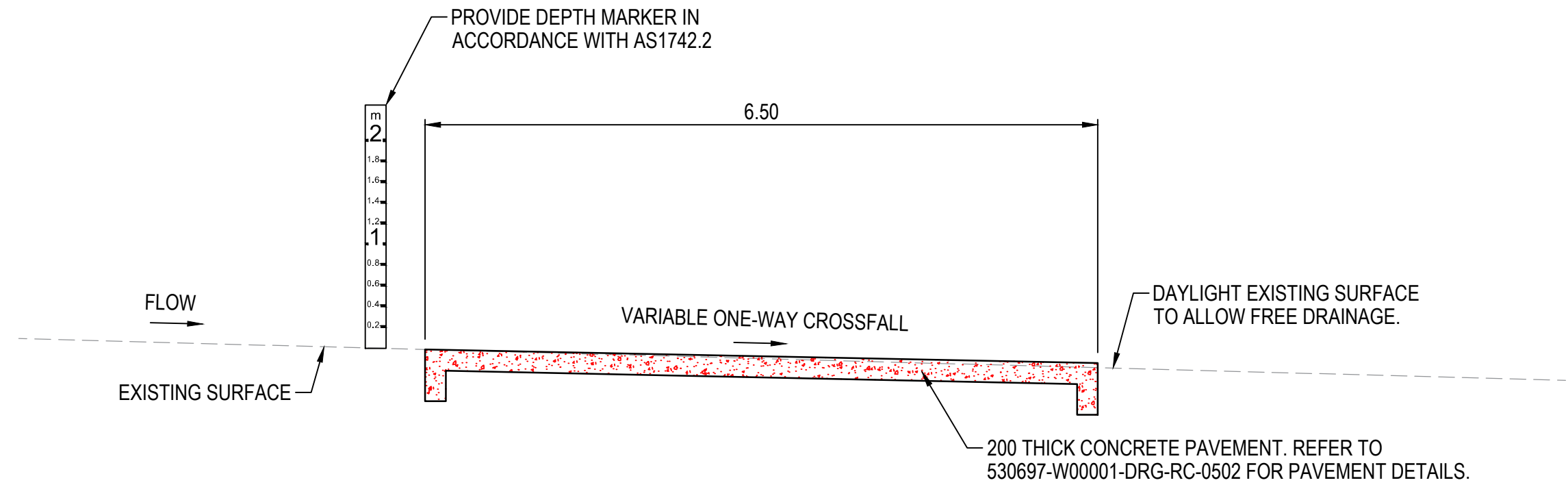
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CONSTRUCTION STATUS		DRAWN BY
NOT FOR CONSTRUCTION		L.DANG
		DESIGNED BY
		T.STEWART
STATUS	CODE	DOCUMENT STATE
CONCEPT DESIGN AND PLANNING	A2	PUBLISHED

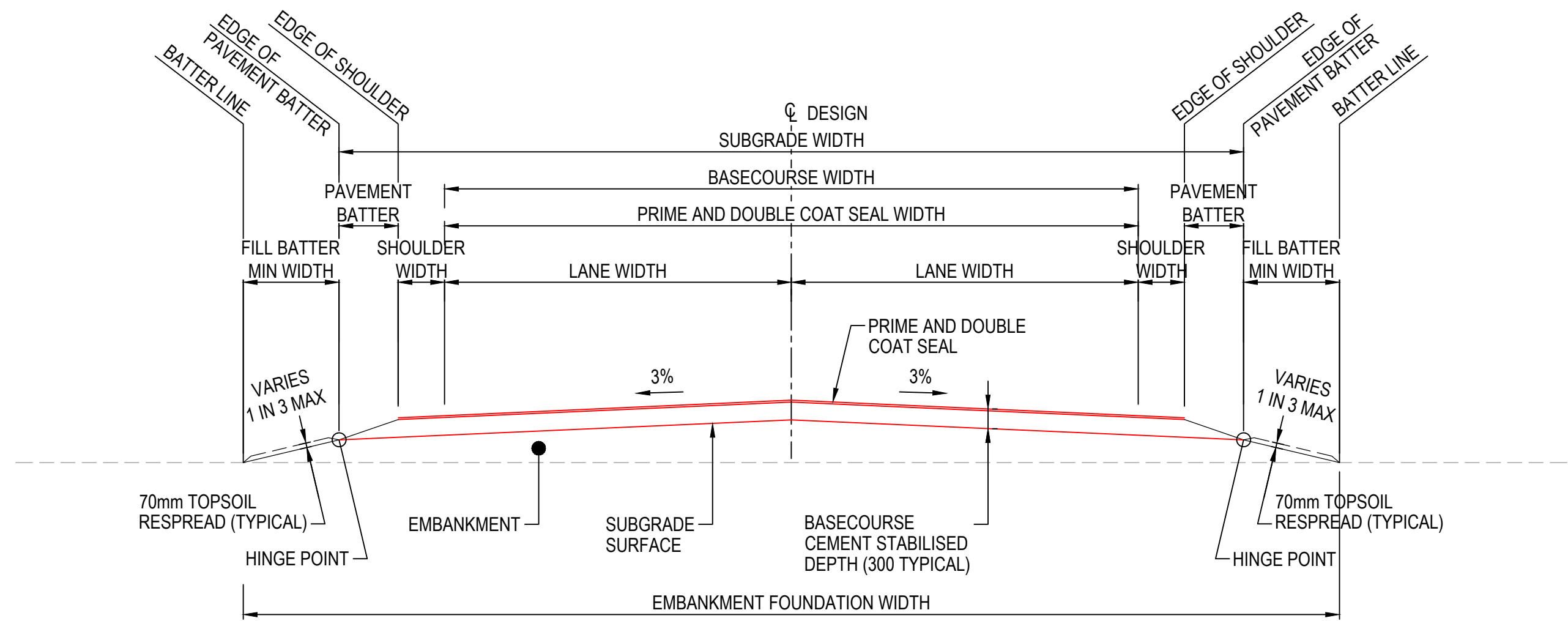
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TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
220kV TRANSMISSION
OVERHEAD LINE LAYOUT

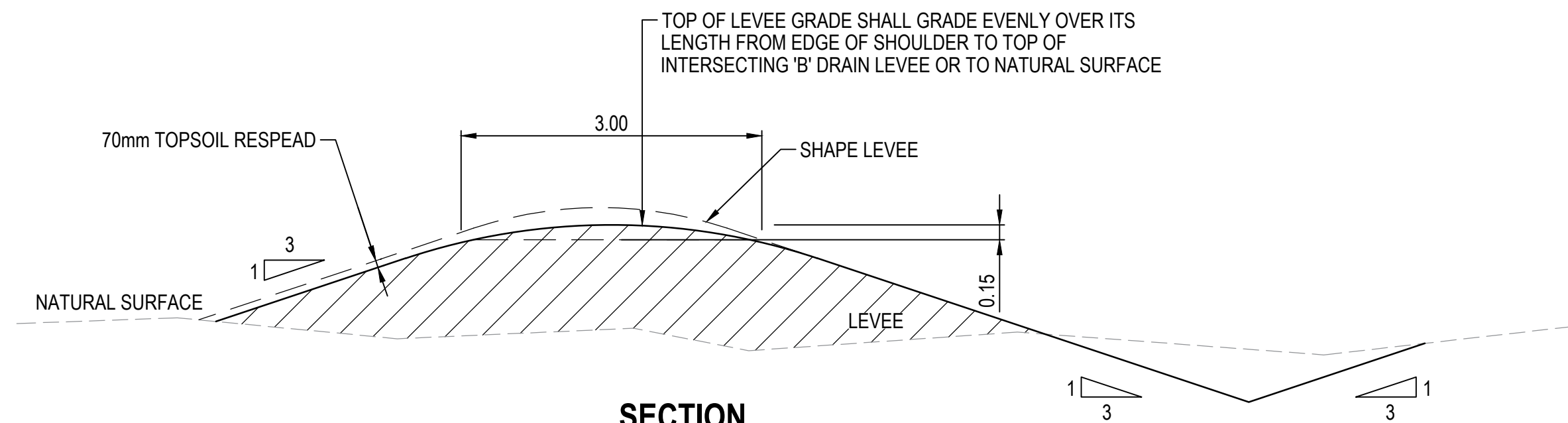
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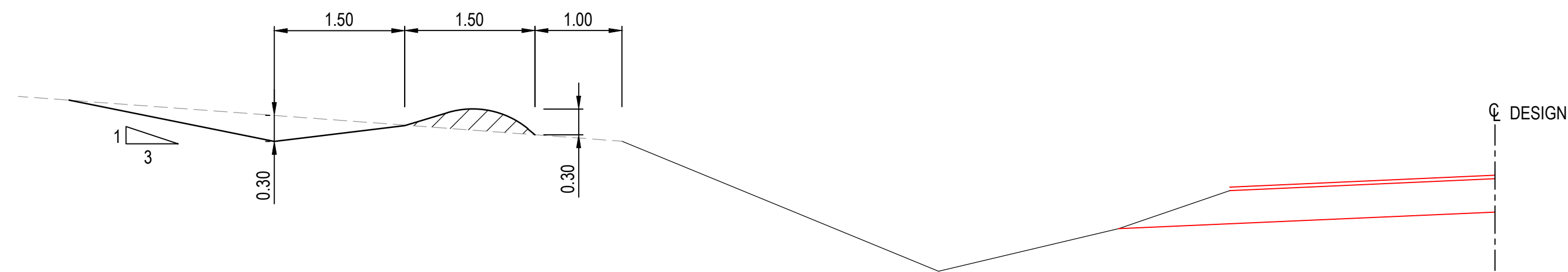
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1:50



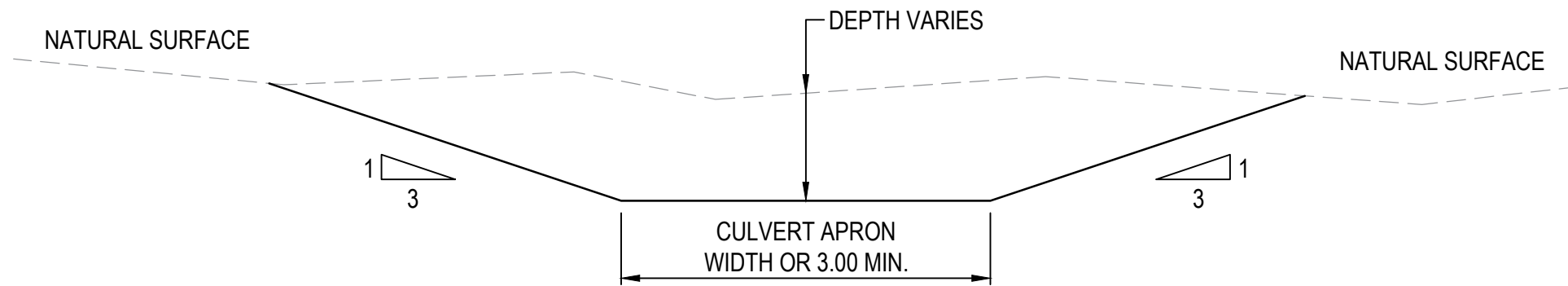
FLOODWAY TYPE 1
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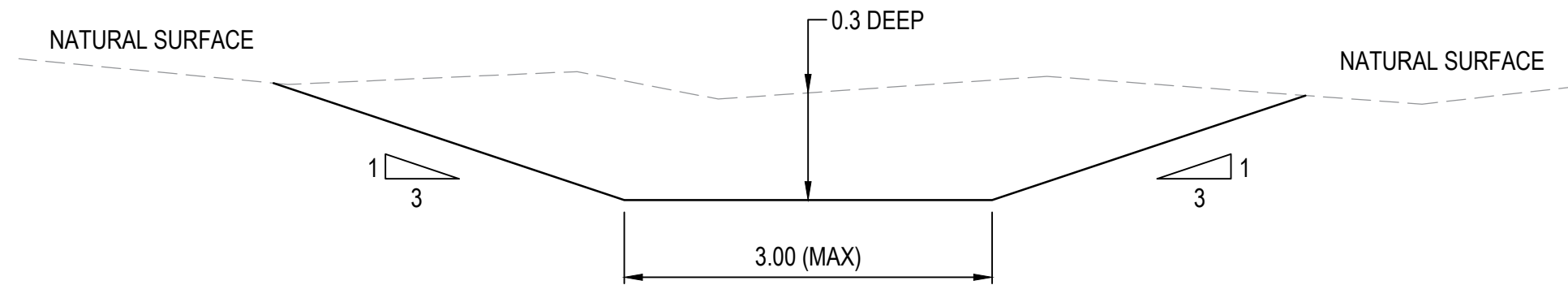
SECTION
DRAIN TYPE 'A'
DIVERSION DRAIN (OFFSHOOT)



DRAIN TYPE 'G' - CATCH DRAIN ON TOP OF CUT BATTERS
NOT TO SCALE



SECTION
DRAIN TYPE 'F'
INLET OR OUTLET DRAIN



SECTION M
MULGA DRAIN SECTION
NOT TO SCALE

FOR CULVERT INLETS
DRAIN 'F' TO GRADE EVENLY FROM CREEK
LEVEL TO INLET INVERT LEVEL, OTHERWISE
LENGTHS, LEVELS OR GRADE SHALL BE SHOWN
ON THE PLAN AND PROFILE DRAWINGS.

FOR CULVERT OUTLETS
DRAIN 'F' EXTENDS FROM OUTLET OF CULVERT
WITH INVERT OF DRAIN EQUAL TO INVERT OF
CULVERT, GRADED AT A MAXIMUM 0.1%, UNTIL
DRAIN INTERSECTS NATURAL SURFACE.

REFERENCE DRAWINGS

REV	DATE	REVISION DETAILS
A	2026-07-13	ISSUED FOR REVIEW

REFERENCE MODELS

REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	T.P	A.S	P.H	O.B

0.5 0 1 2m
1:50

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REV

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N

Coordinate system
MGA50 GDA2020
Height datum
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CONSTRUCTION STATUS
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T.PHAM

DESIGNED BY
A.SALVADOR

STATUS
CONCEPT DESIGN AND
PLANNING

DOCUMENT STATE
PUBLISHED

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
CIVIL WORKS
DRAINAGE DETAILS DRAWING 1 OF 6

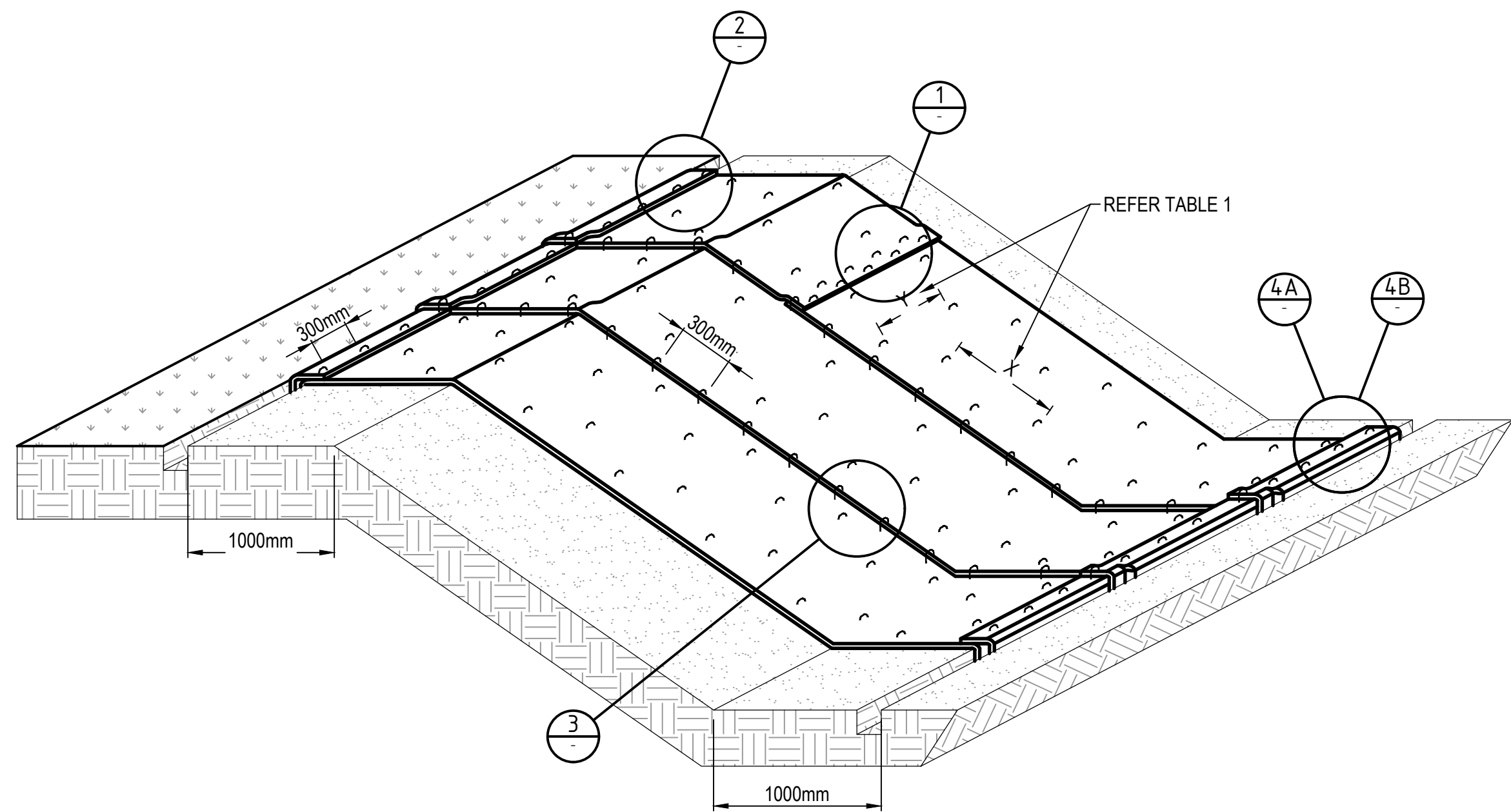
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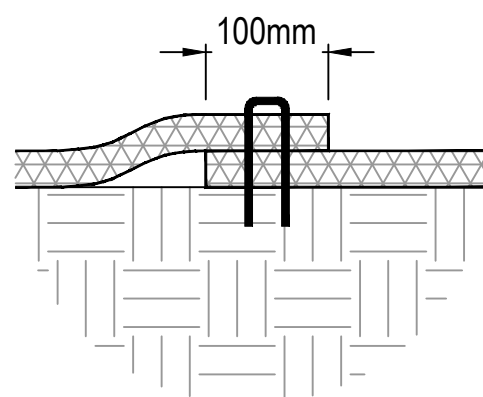
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REV
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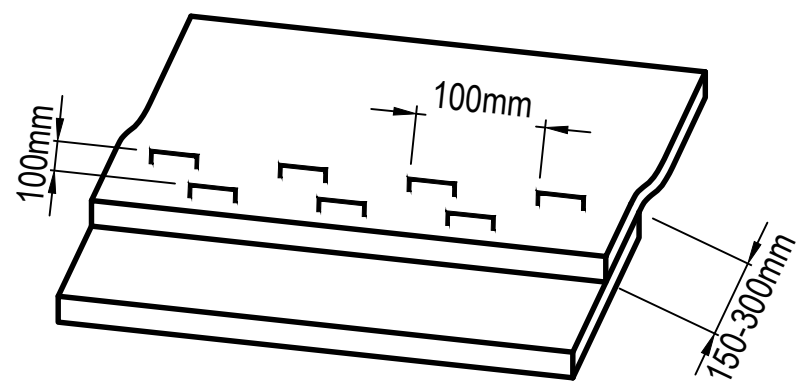


EROSION CONTROL MESH TYPICAL DETAIL
SCALE NTS



DETAIL 3

DETAIL 3
SCALE NTS



DETAIL 1
SCALE NTS

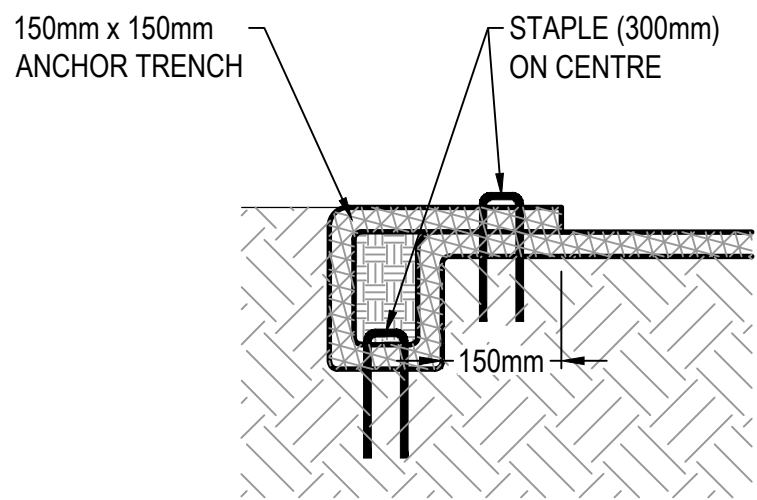
NOTES

- ALL DIMENSIONS IN METRES (m) UNLESS NOTED OTHERWISE.
- THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING, AND CAKING. ALL GROUND PREPARATION WORKS INCLUDING RIPPING, CULTIVATING OR ROUGHENING ARE TO BE CARRIED OUT IN ACCORDANCE WITH MRWA SPECIFICATION 304.
- ANY MATERIAL PROTRUDING MORE THAN 50mm ABOVE THE SURFACE SHALL BE REMOVED PRIOR TO PLACEMENT OF THE MESH. FILL ANY VOIDS AND MAKE SURE THAT THE SLOPE IS COMPACTED PROPERLY.
- FIXING PINS ARE TO BE INSTALLED AT CENTRES, IN AREAS ALONG AND IN BETWEEN JOINTS AS PER MANUFACTURERS SPECIFICATIONS. REFER TABLE 1 FOR REQUIREMENTS.
- EROSION CONTROL MATS SHALL BE IN CONSISTENT CONTACT WITH TOPSOIL BEFORE SECURING.
- IN AREAS WHERE BIODEGRADABLE MESH PRODUCTS ARE BEING PROPOSED BIOGRIPPERS (280mm) OR STAPLES ARE TO BE USED. BIOGRIPPERS ARE PREFERRED WHERE THE GROUND IS SOFT.
- IF THE DEGREE OF SLOPE IS GREATER THAN 1V:3H IT IS RECOMMENDED MATTING IS ROLLED DOWN THE SLOPE.
- FOR A DEGREE OF SLOPE LESS THAN 1V:3H THE MESH SHOULD BE ROLLED ACROSS THE SLOPE.
- MESH TO BE SLIT ON SITE WITH PLANTING HOLES AT A VARIETY OF PLANTING DENSITIES BASED ON THE PLANTING DESIGN.
- REFER 05-C-13-10136 FOR ADDITIONAL ANCHOR TRENCHING DETAILS.
- FOR JUTE MESH THE DESIRED STANDARD IS FOR ANCHOR TRENCHING TO BE 1.0m FROM TOP AND BOTTOM OF BATTER AS DETAILED. WHERE CONSTRAINTS, OR CONSTRUCTABILITY ISSUES EXIST, THIS DISTANCE CAN BE LOCALLY REDUCED IN LINE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - TOP OF BATTER: THE MINIMUM TRENCHING DEPTH SHALL BE 500mm BEYOND TOP AND 200mm DEPTH.
 - BOTTOM OF BATTER: THE MINIMUM TRENCHING DEPTH SHALL BE 400mm BEYOND TOE AND 200mm DEPTH.

TABLE 1 - EROSION MESH PINNING REQUIEMENTS

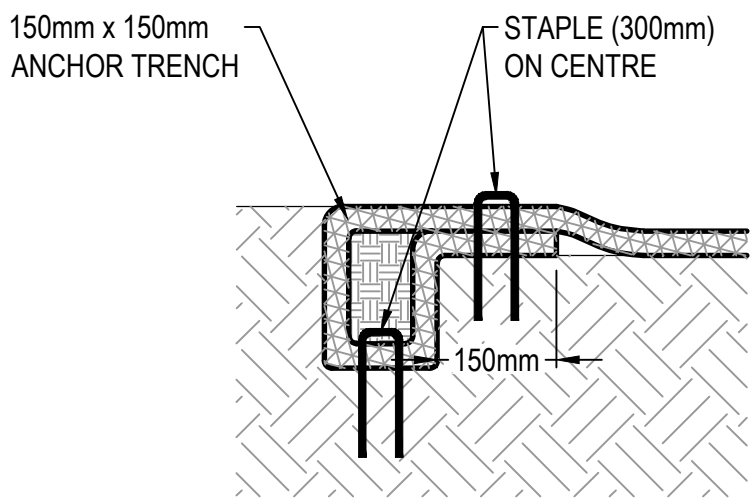
SLOPE (V:H)	APPLICATION	PRODUCT	MINIMUM PINS/m2	X	Y
1:2.0-1:3.0	GENERAL EMBANKMENT PROTECTION	HEAVY JUTE MESH	4-6 PINS	500-1000mm	400-600mm
1:3.0-1:4.0	GENERAL EMBANKMENT PROTECTION	LIGHT JUTE MESH	4-6 PINS	500-1000mm	400-600mm

NOTE:
MINIMUM PINS, LAPPING DETAILS AND SPACING REQUIREMENTS ARE TO BE READ IN CONJUNCTION WITH THE INSTALLATION SPECIFICATIONS FROM THE MANUFACTURER.



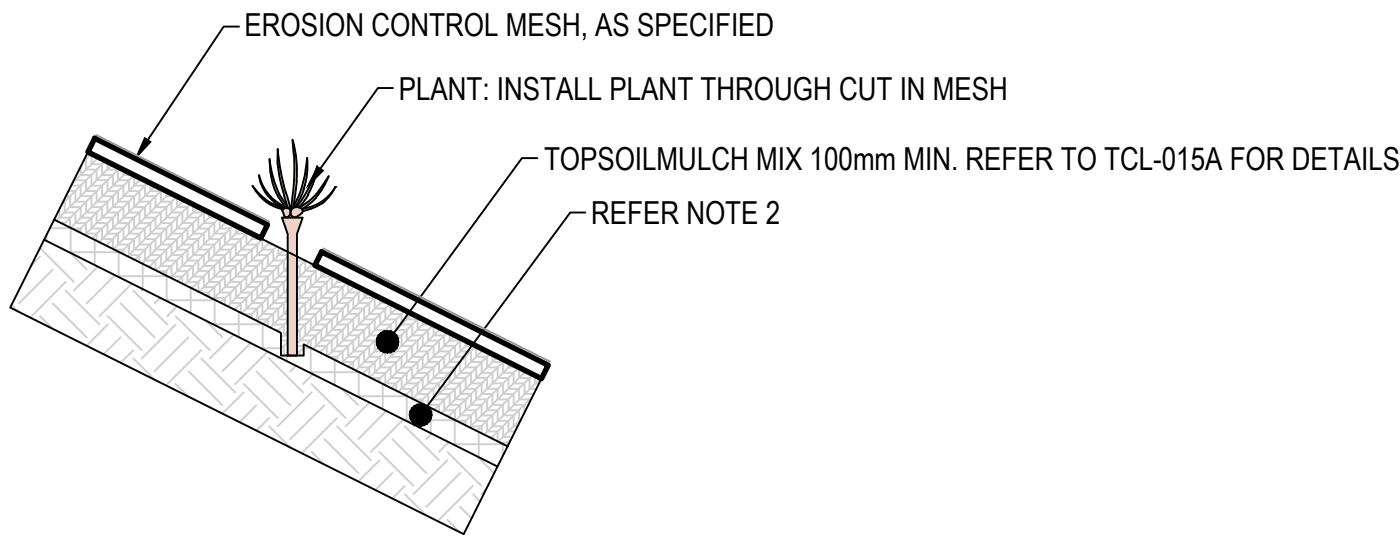
ANCHOR TRENCH DETAIL AT BASE OF EMBANKMENT

DETAIL 4A
SCALE NTS



ANCHOR TRENCH DETAIL AT TOP OF EMBANKMENT

DETAIL 2
SCALE NTS



PLANTING WITH MULCH SECURED WITH EROSION CONTROL MESH
SCALE NTS

REFERENCE DRAWINGS

REV	DATE	REVISION DETAILS
A	2026-07-13	ISSUED FOR REVIEW

REFERENCE MODELS

531071-SP0001-MDA-PW-0023
531071-SP0001-MDA-PW-0024

0.5 0 1 2m
1:50

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CLIENT DOCUMENT NUMBER
TWF-PG2010-000-CIV-LAY-0002-00

REV

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Coordinate system
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Height datum
AHD

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DRAWN BY
T.PHAM

DESIGNED BY
A.SALVADOR

STATUS
CONCEPT DESIGN AND PLANNING

CODE
A2

DOCUMENT STATE
PUBLISHED

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
CIVIL WORKS
DRAINAGE DETAILS DRAWING 2 OF 6

DOCUMENT CODE
531071-SP0001-DRG-PW-0402

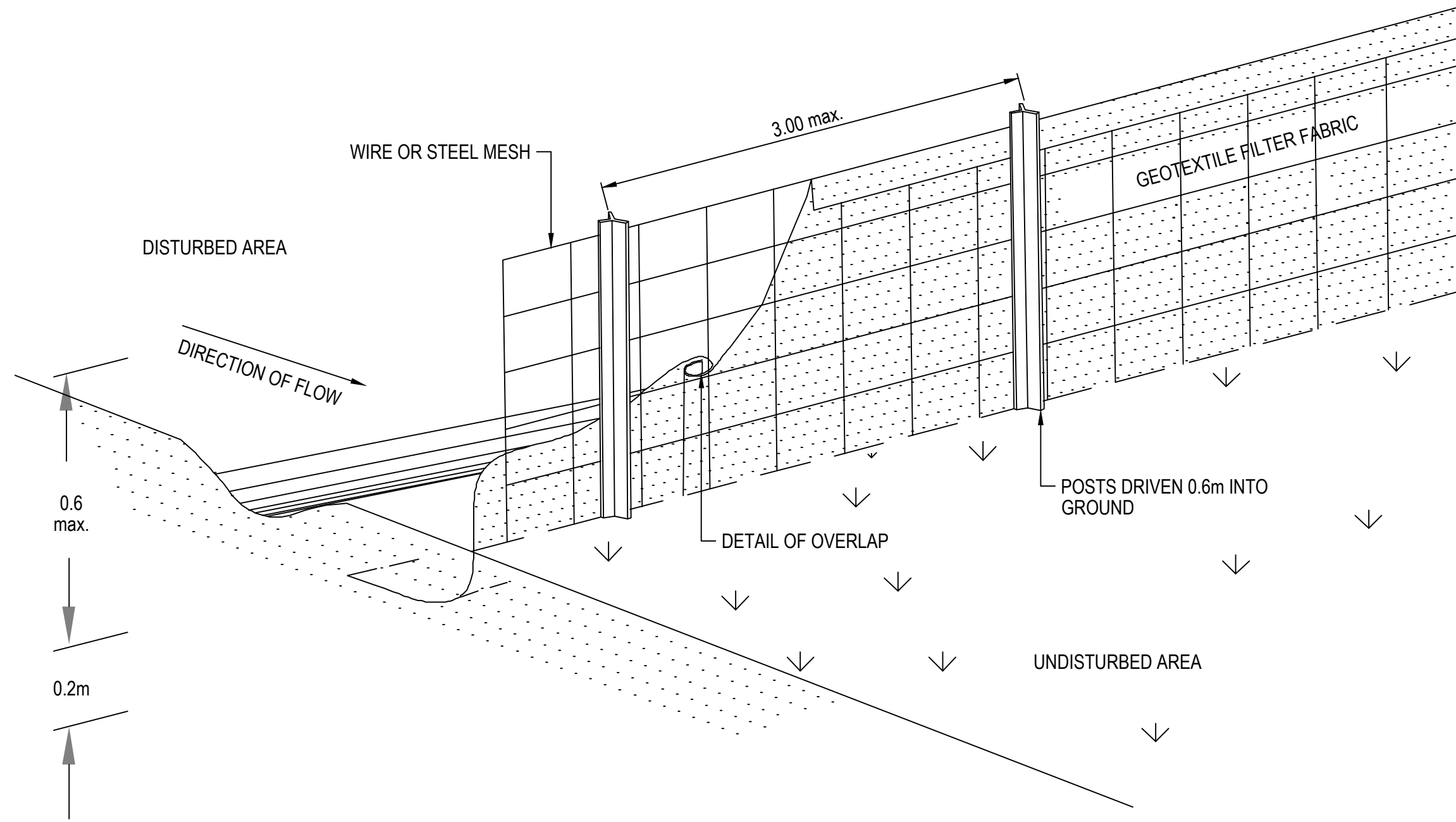
SCALE
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SIZE
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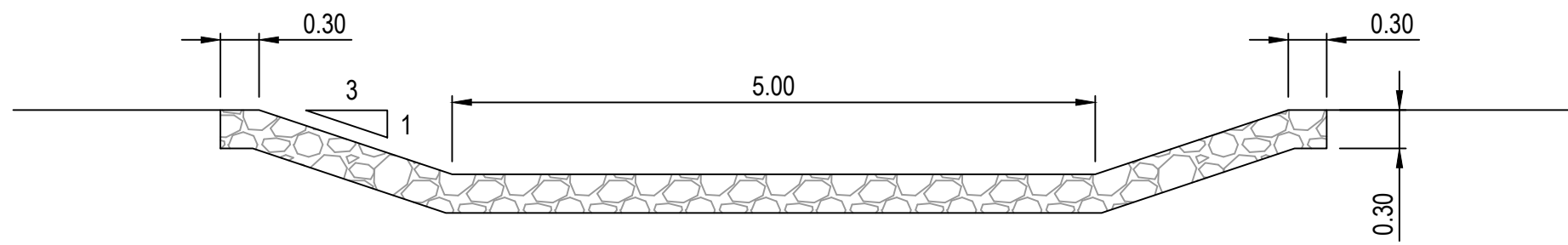
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REV
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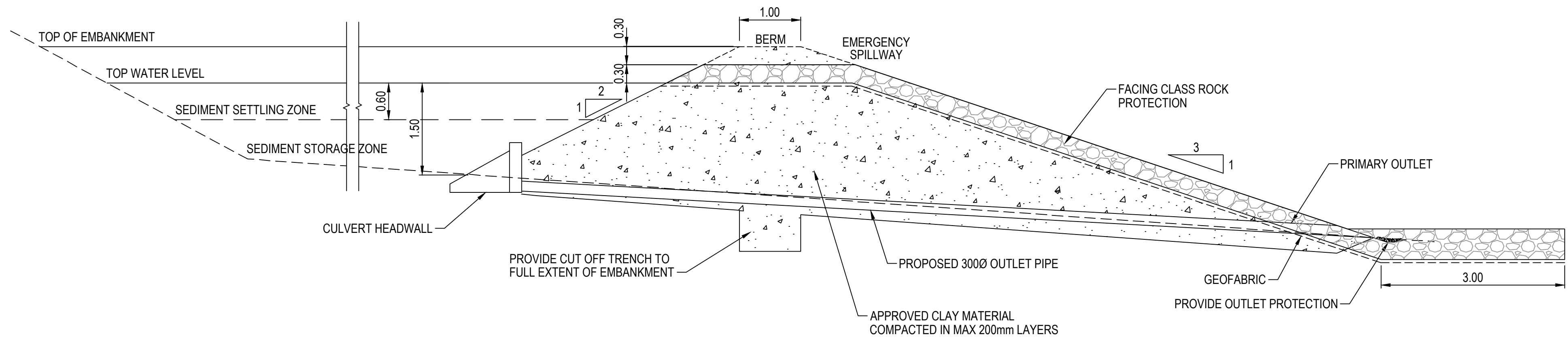
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SEDIMENT FENCE



TYPICAL OVERFLOW WEIR SECTION



TYPICAL STORMWATER DETENTION POND CROSS SECTION

1:50
TYPICAL FOR ALL SEDIMENT BASINS

REFERENCE DRAWINGS			REFERENCE MODELS				
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REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	A.S	P.H	O.B

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CLIENT

Coordinate system
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Height datum
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CONSTRUCTION STATUS

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CONSTRUCTION

DRAWN BY
T.PHAM

DESIGNED BY
A.SALVADOR

STATUS
CONCEPT DESIGN AND
PLANNING

DOCUMENT STATE
PUBLISHED

PROJECT

TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

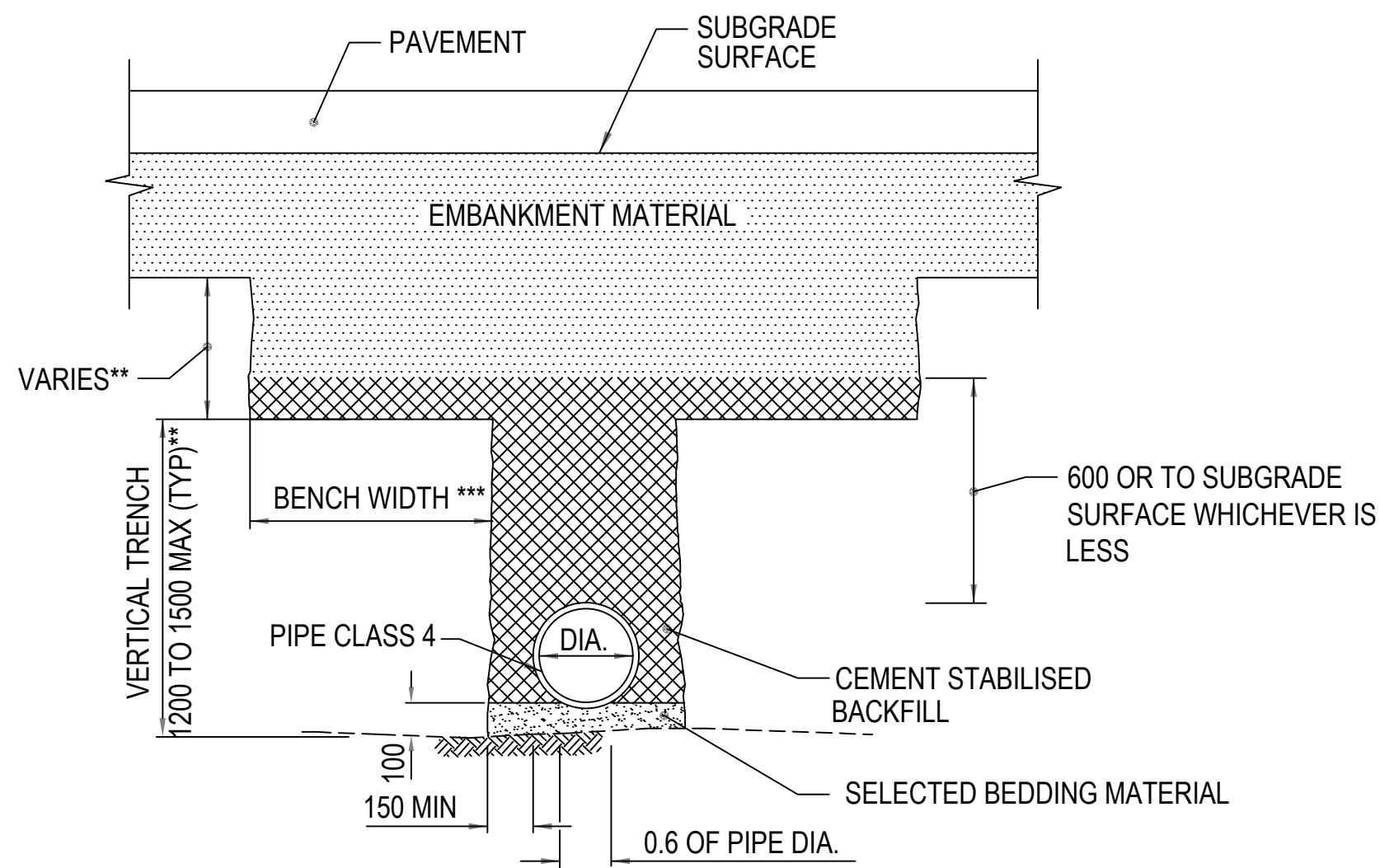
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TANDEGIN WIND FARM
CIVIL WORKS
DRAINAGE DETAILS DRAWING 3 OF 6

DOCUMENT CODE

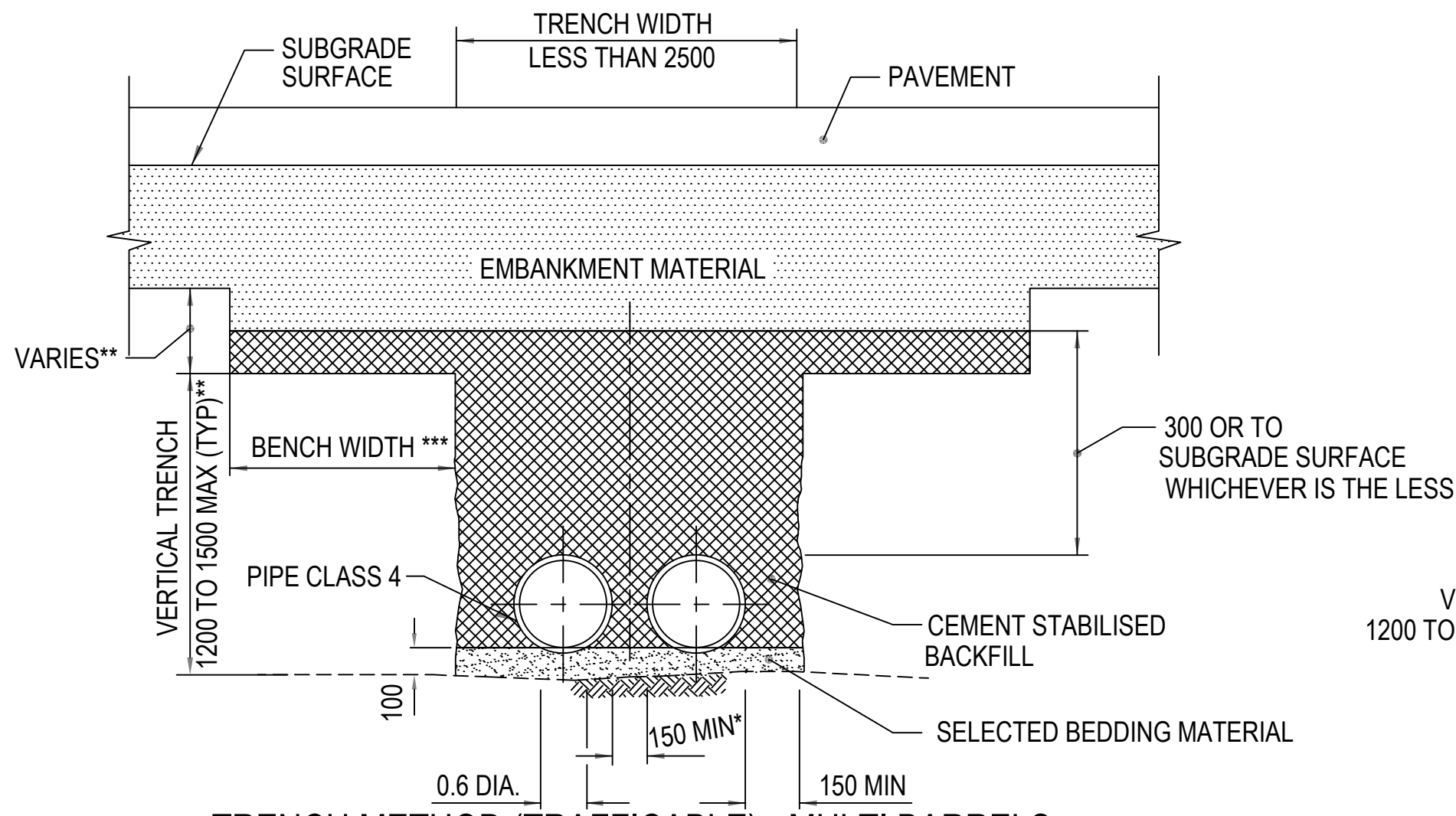
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SCALE	SIZE	REFERENCE No.	REV
AS SHOWN	A1	DRG-PW-0403	A



TRENCH METHOD (TRAFFICABLE) - SINGLE BARREL

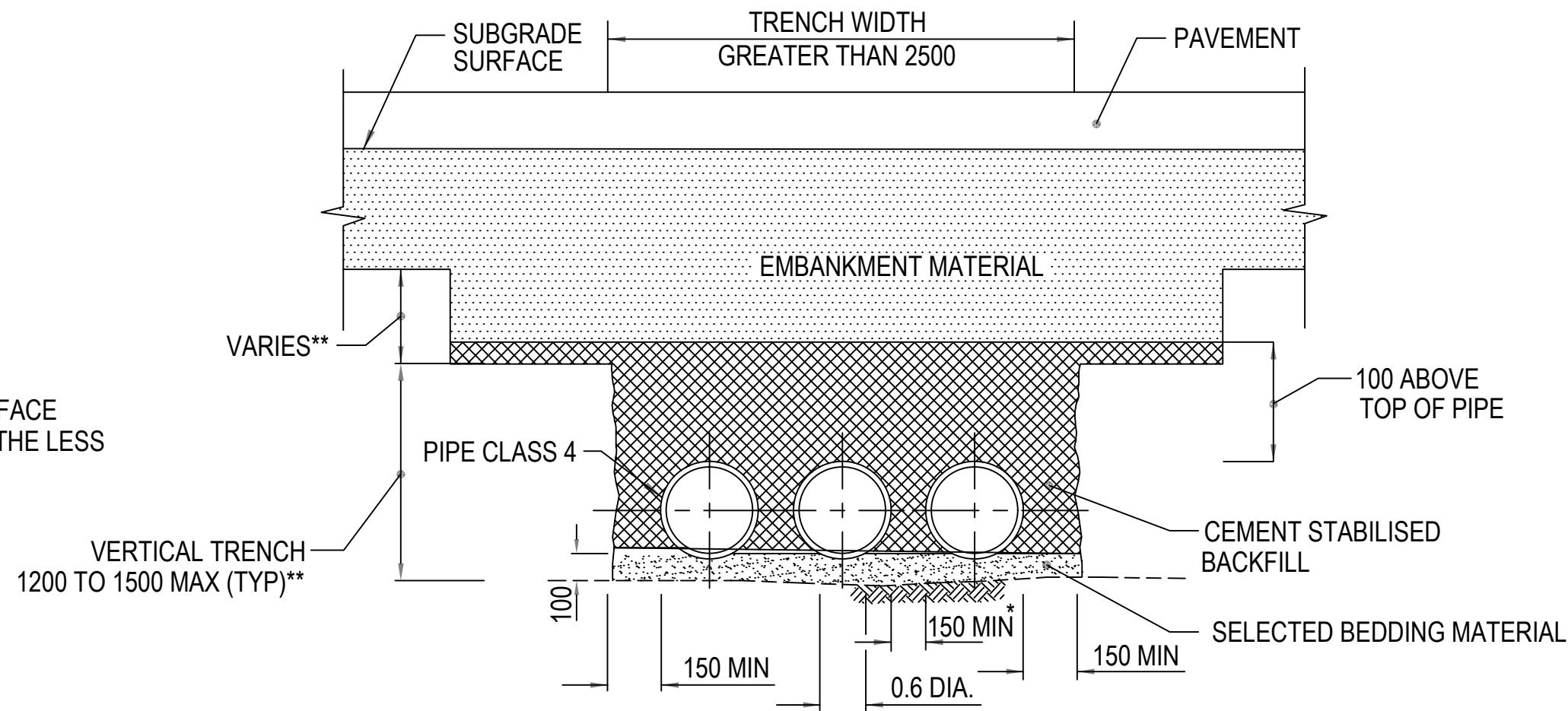
N.T.S.
** REFER TO NOTE 6
*** REFER TO NOTE 7



TRENCH METHOD (TRAFFICABLE) - MULTI BARRELS

TRENCH WIDTH ≤ 2500

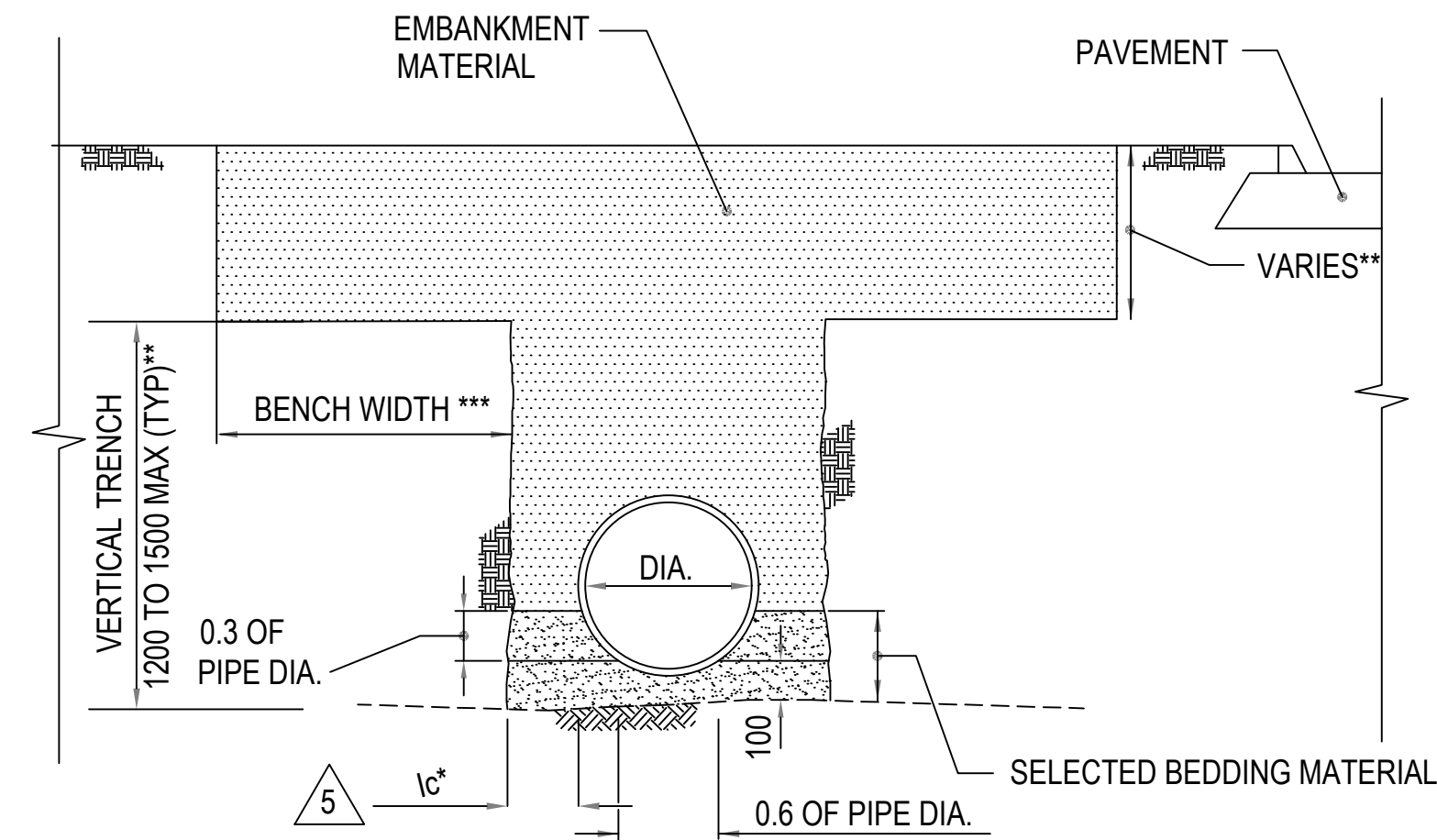
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*REFER NOTE 4.
** REFER TO NOTE 6
*** REFER TO NOTE 7



TRENCH METHOD (TRAFFICABLE) - MULTI BARRELS

TRENCH WIDTH > 2500

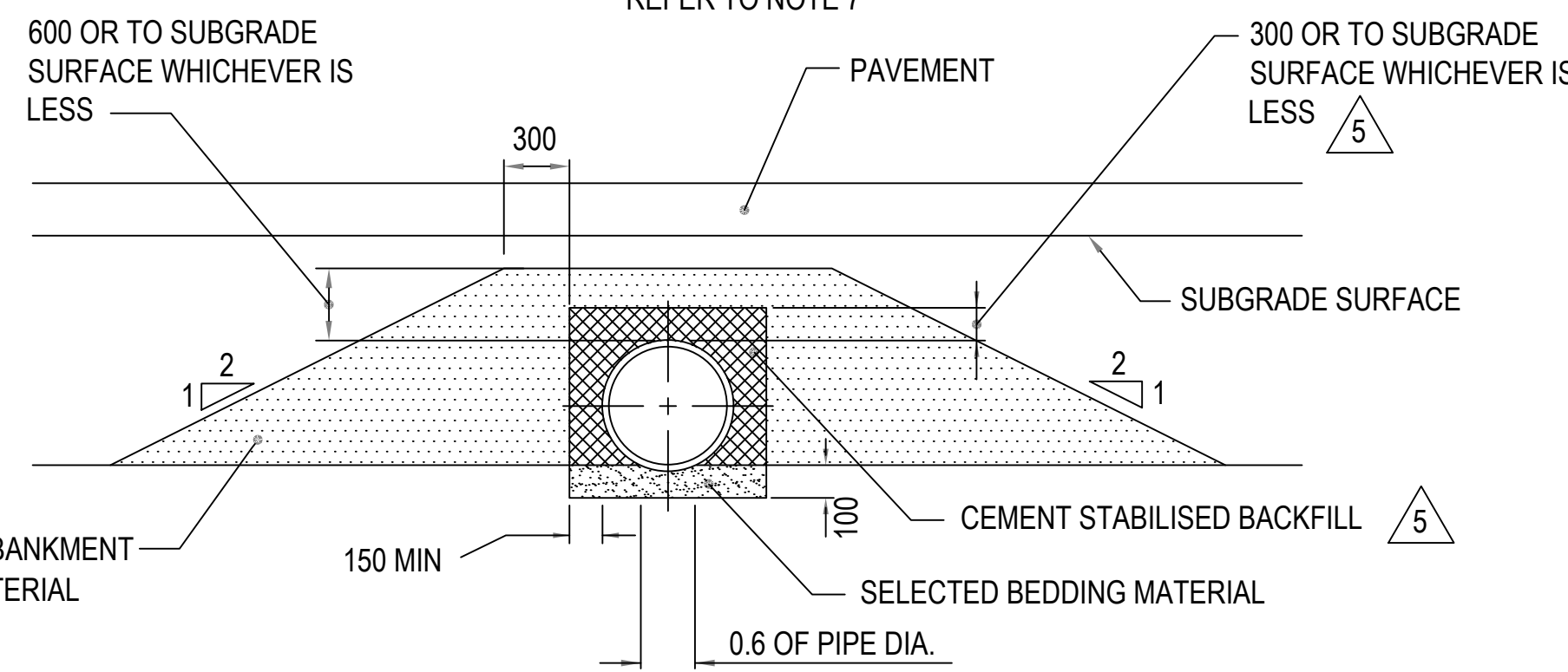
N.T.S.
*REFER NOTE 4.
** REFER TO NOTE 6
*** REFER TO NOTE 7



TRENCH METHOD (NON-TRAFFICABLE)

N.T.S.
* REFER TO TABLE 1
** REFER TO NOTE 6
*** REFER TO NOTE 7

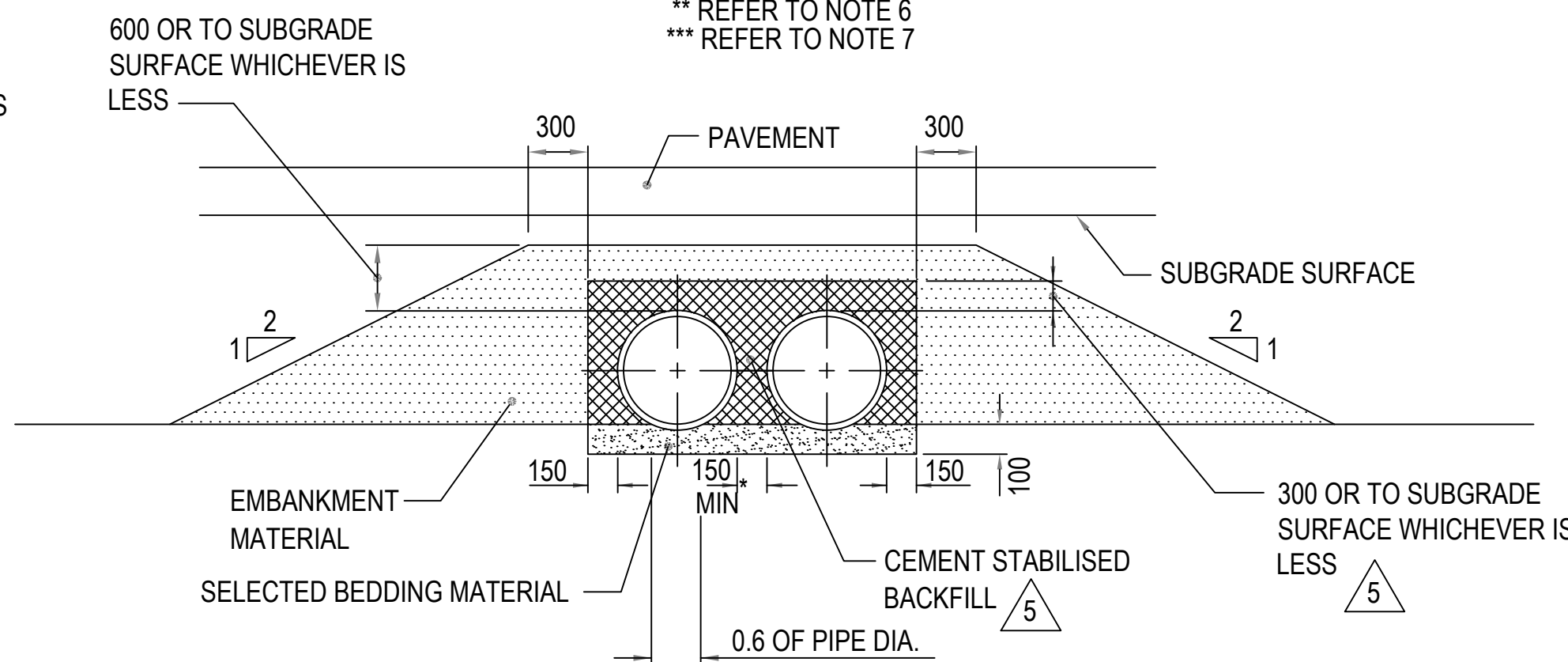
TABLE 1 	
D	lc
≤600	150
>600, ≤1200	200
>1200	DIA/6



BACKFILL - EMBANKMENT METHOD - SINGLE BARREL

APPLICABLE TO ALL TRAFFIC ENVIRONMENTS

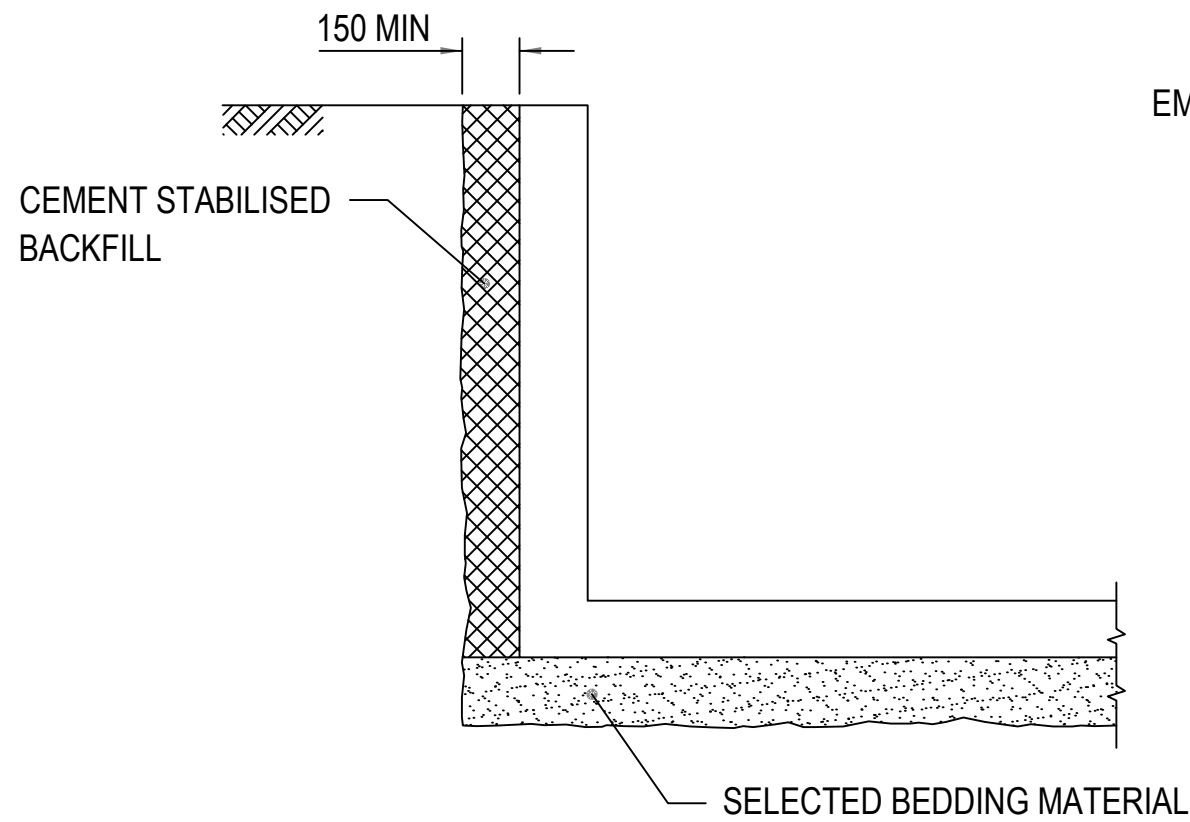
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BACKFILL - EMBANKMENT METHOD - MULTI BARRELS

APPLICABLE TO ALL TRAFFIC ENVIRONMENTS

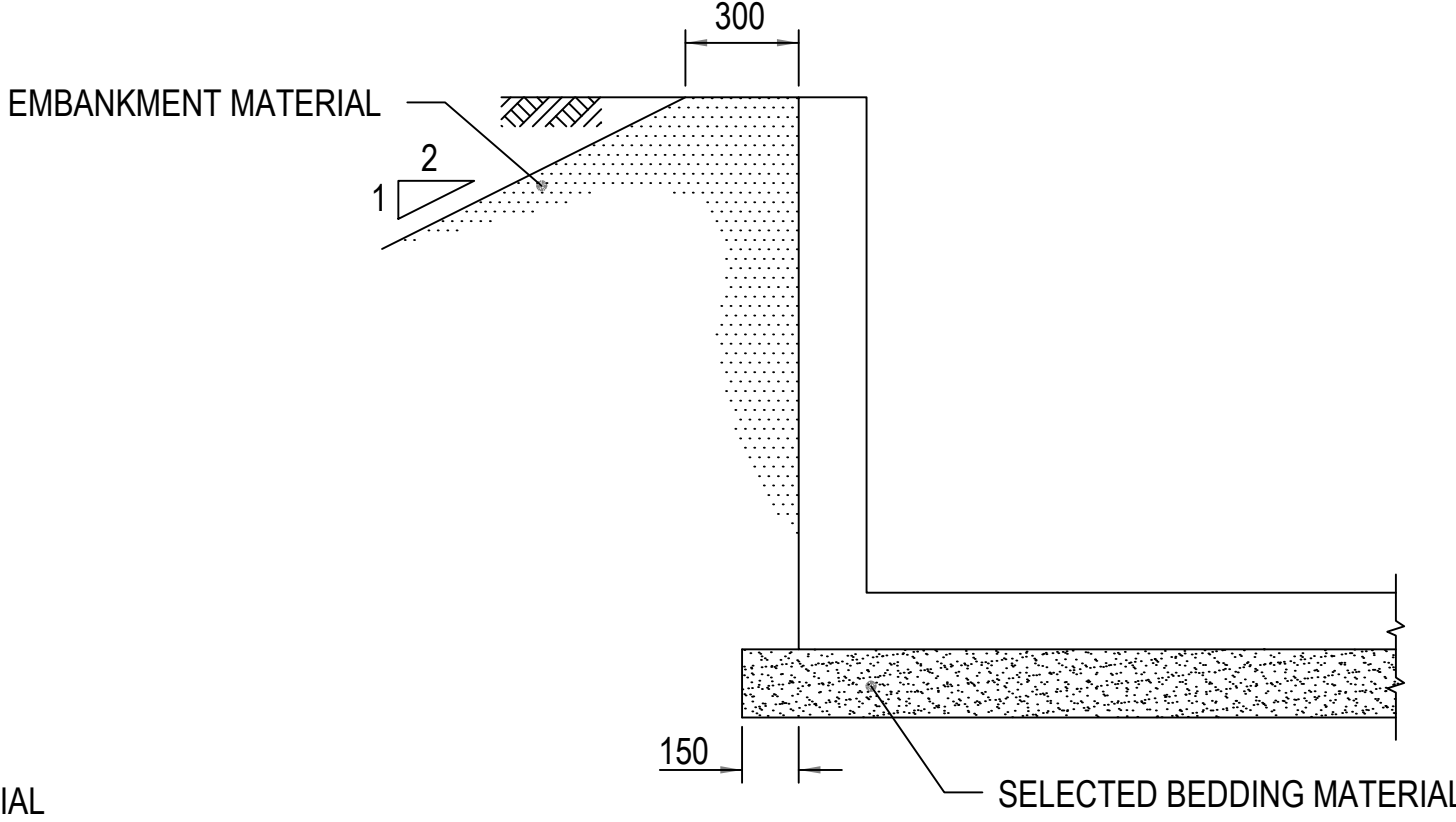
N.T.S.
*REFER NOTE 4.



WINGWALLS AND APRON

N.T.S.

TRENCH METHOD



WINGWALLS AND APRON

N.T.S.

EMBANKMENT METHOD

NOTES:

- BEDDING MATERIAL, FOUNDATION COMPACTION AND BACKFILL COMPACTION TO BE AS PER SPECIFICATION 404 CULVERTS.
- CEMENT STABILISED BACKFILL MIX TO BE AS PER SPECIFICATION 404 CULVERTS.
- ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- MINIMUM DISTANCE BETWEEN RUBBER RING JOINT TYPE PIPE SHALL BE TAKEN BETWEEN THE COLLARS.
- COVER TO TOP OF PIPE IS MATERIAL DEPENDENT. REFER TO MANUFACTURER'S REQUIREMENTS.
- TRENCHING METHOD TO BE DETERMINED BY CONTRACTOR. THIS WILL BE SUBJECT TO SITE CONDITIONS AND MUST MEET THE REQUIREMENTS OF SPECIFICATION 203
- A COMPETENT PERSON SHOULD DETERMINE THE BENCH WIDTHS.
- IF STEEPER SLOPE THAN THOSE SPECIFIED IN THE EXCAVATION CODE OF PRACTICE ARE BEING USED ON EXCAVATIONS DEEPER THAN 1.5M, THEN INPUT FROM AN APPROPRIATELY EXPERIENCED ENGINEER MUST BE SOUGHT
- FOR BENCHED TRENCHING METHOD, EMBANKMENT BACKFILL TO BE PLACED PRIOR TO CEMENT STABILISED BACKFILL TO SUPPORT CULVERT
- AT DEPTHS GREATER THAN THREE METERS BENCHES MUST BE PROVIDED (WHERE BATTERING IS OTHERWISE PROPOSED)
- AN ENGINEER MUST DESIGN THE TRENCHES FOR EXCAVATIONS DEEPER THAN SIX METERS.

Plot Date: 2026-07-13 3:42 PM Filename: 531071-SP0001-DRG-PW-0404.DWG

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
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REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	A.S	P.H	O.B

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CLIENT DOCUMENT NUMBER
TWF-PG2010-000-CIV-LAY-0002-00

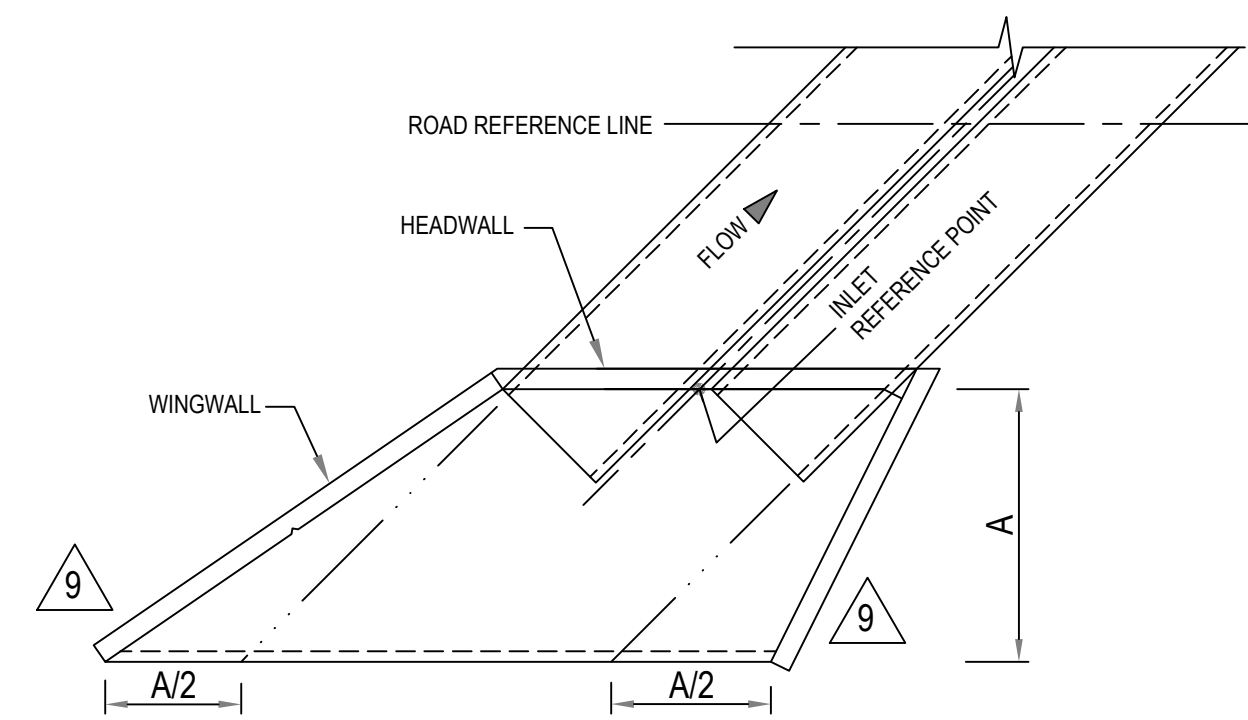
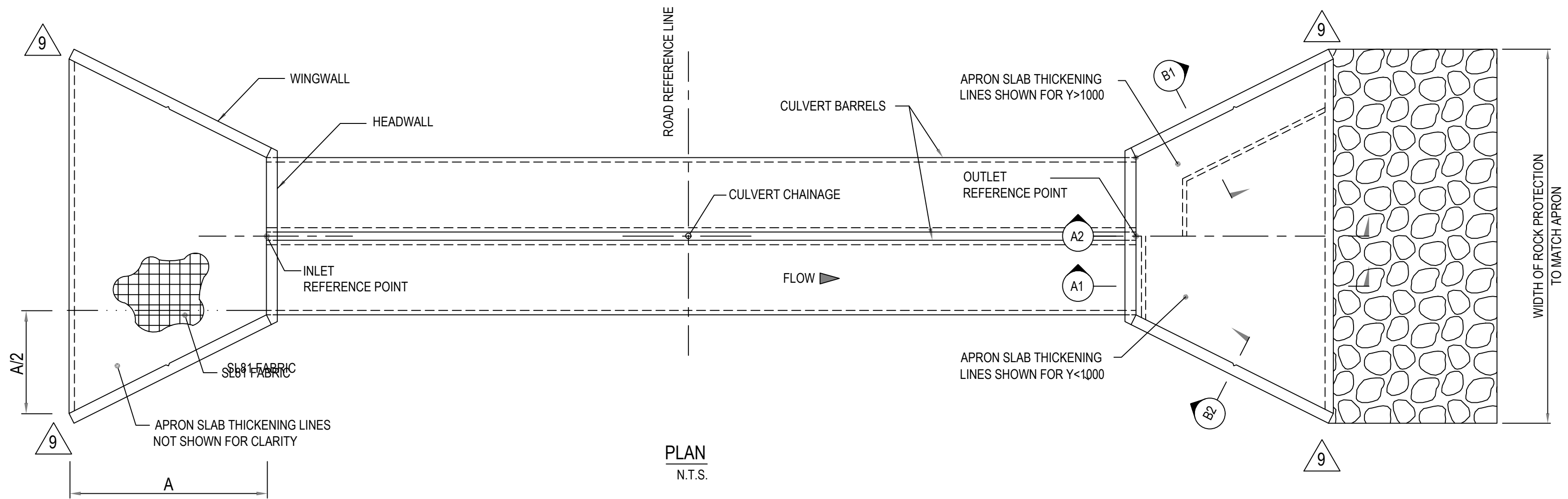
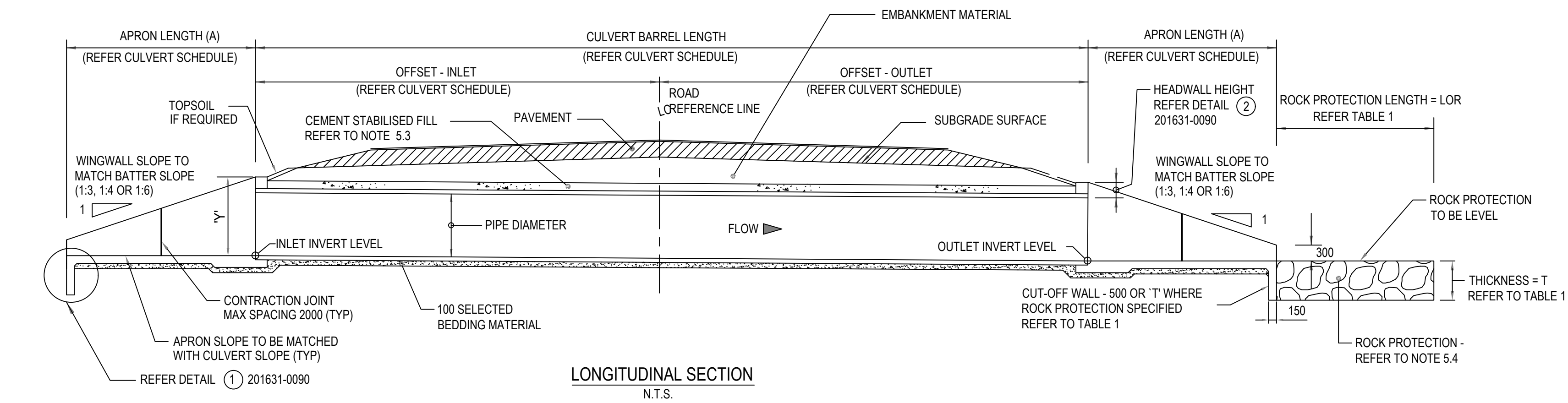
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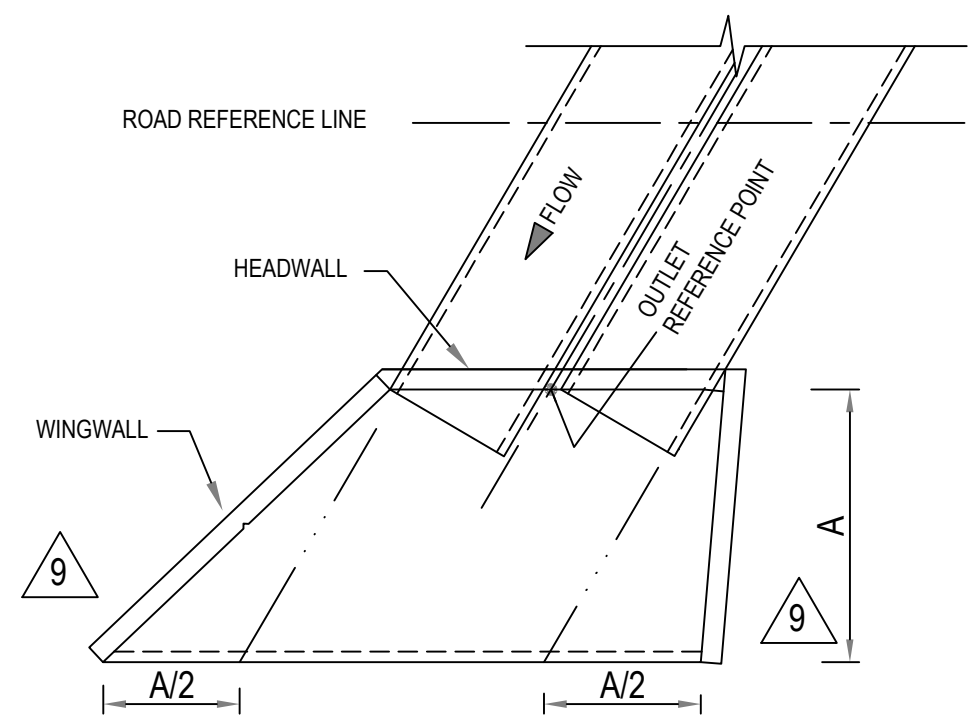
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CONSTRUCTION STATUS		PROJECT			
NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY T.PHAM		TITLE TANDEGIN WIND FARM CIVIL WORKS DRAINAGE DETAILS DRAWING 4 OF 6			
DESIGNED BY A.SALVADOR		DOCUMENT CODE 531071-SP0001-DRG-PW-0404			
STATUS CONCEPT DESIGN AND PLANNING		CODE A2	SCALE AS SHOWN	SIZE A1	REFERENCE No. DRG-PW-0404
DOCUMENT STATE PUBLISHED				REV A	

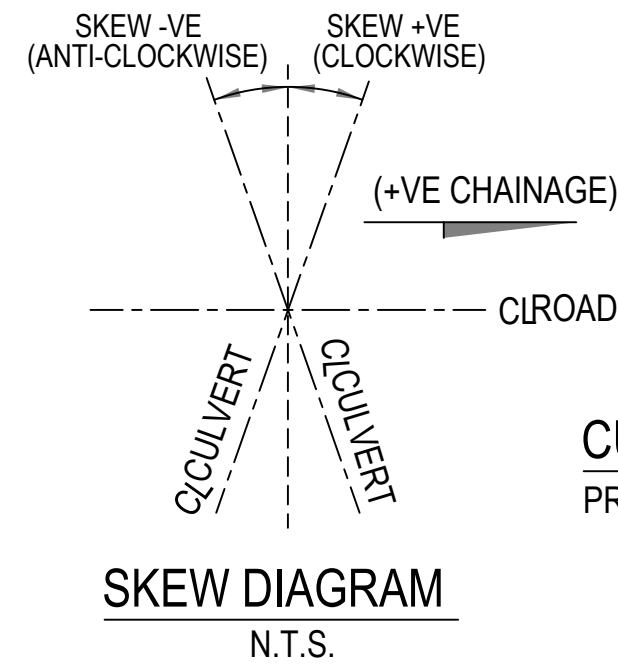
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PLAN OF MULTI BARREL PIPE CULVERT ON 45° SKEW

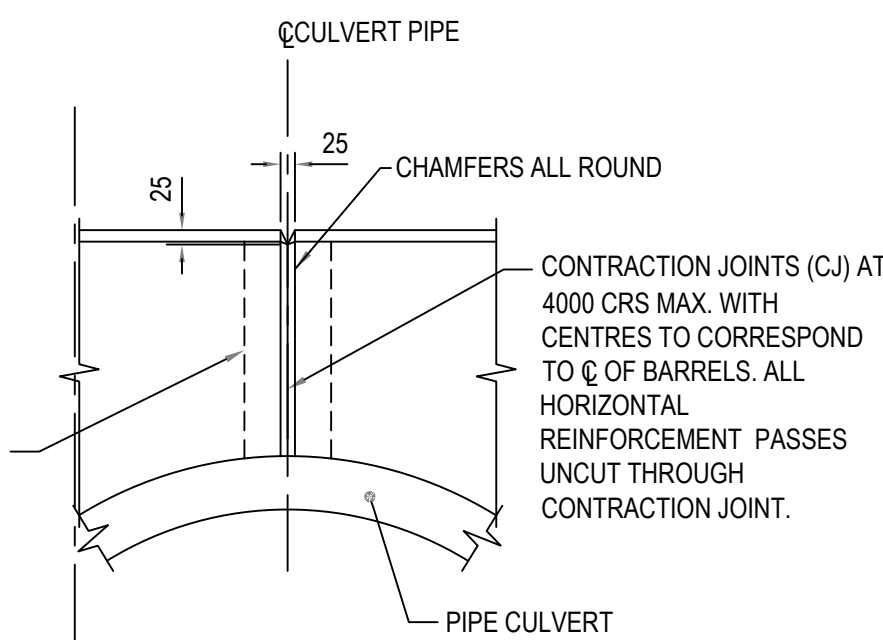


PLAN OF MULTI BARREL PIPE CULVERT ON 30° SKEW



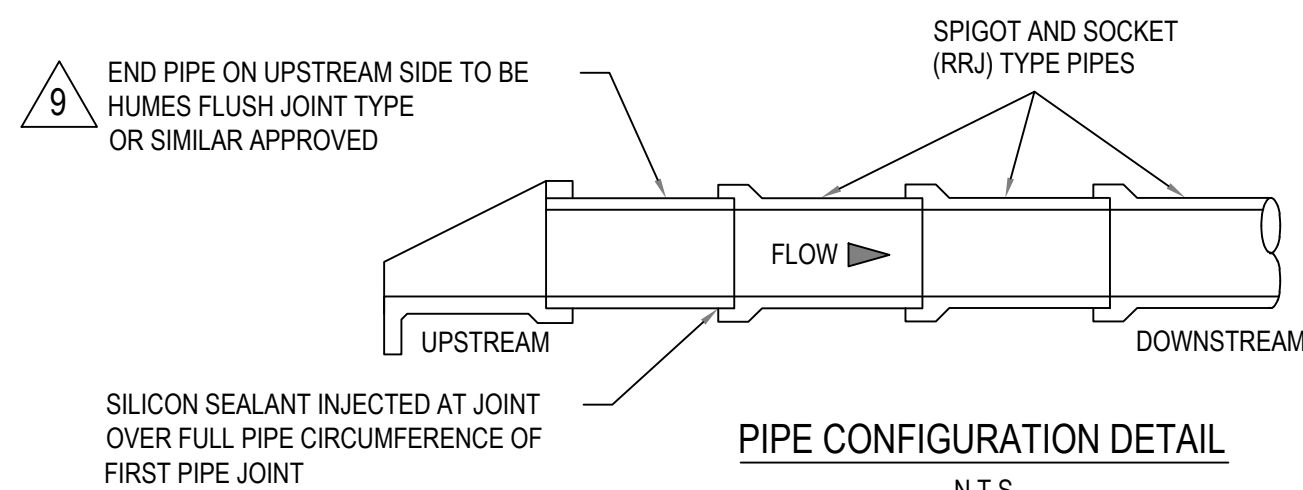
CULVERT SKEWS

PREFERRED CULVERT SKEWS ARE :-
0°, 15°, 30° & 45°
-15°, -30° & -45°



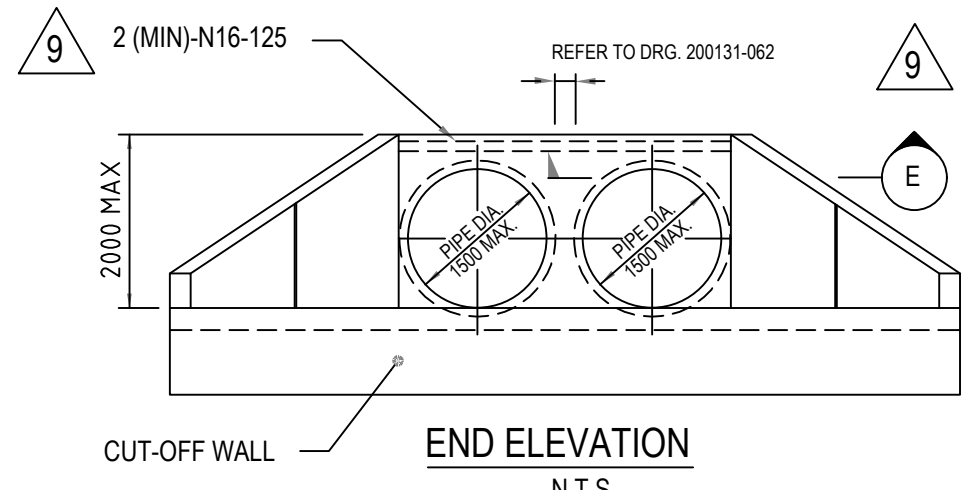
CONTRACTION JOINT DETAIL

N.T.S.



PIPE CONFIGURATION DETAIL

N.T.S.



END ELEVATION

N.T.S.

TABLE 1: ROCK PROTECTION DETAILS

CLASS ROCK	MIN THICKNESS (T)	MIN LENGTH (LOR)	ROCK SIZE (m) ⁺	ROCK MASS (Kg)	% OF ROCK LARGER THAN
FACING	500	3000	0.40	100	0
			0.30	35	50
			0.15	2.5	90
LIGHT	750	3000	0.55	250	0
			0.40	100	50
			0.20	10	90
1/4 TONNE	1000	5000	0.75	500	0
			0.55	250	50
			0.30	35	90
1/2 TONNE	1250	5000	0.90	1000	0
			0.70	450	50
			0.40	100	90

* ASSUMING A SPECIFIC GRAVITY OF 2.65 AND SPHERICAL SHAPE FOR ALL ROCK CLASSES.

THESE DETAILS ARE NOT SUITABLE FOR HEADWALLS GREATER THAN 2000 HIGH.

NOTES

1. GENERAL

- 1.1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MAIN ROADS STANDARD DRAWING 201631-0090 AND SPECIFICATION 404 CULVERTS.
- 1.2 THE PRECAST PIPE CULVERT UNITS SHALL BE SUPPLIED IN ACCORDANCE WITH MAIN ROADS SPECIFICATION 404 CULVERTS.
- 1.3 THESE STANDARD DRAWINGS ARE APPLICABLE FOR CULVERTS AS DESCRIBED BY THE ATTACHED DESIGN CRITERIA. STRUCTURES THAT DO NOT MEET THESE CRITERIA SHALL BE DESIGNED OUTSIDE THIS STANDARD AND ARE SUBJECT TO APPROVAL BY MAIN ROADS.
- 1.4 ALL UNITS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

2. CONCRETE

- 2.1 APRON SLABS, WINGWALLS AND HEADWALLS SHALL BE CLASS N40 CONCRETE MINIMUM UNLESS NOTED OTHERWISE (U.N.O) IN ACCORDANCE WITH MAIN ROADS SPECIFICATION 404 CLAUSE 404.09 AND ANNEXURE 404A TABLE 404A3.
- 2.2 THE MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE :-
 - a) ALL EXPOSED FACES 55
 - b) BURIED FACES - HEADWALLS AND WINGWALLS 55
 - c) FACES IN CONTACT WITH GROUND - APRONS AND SLAB 65IF MORE AGGRESSIVE SOIL CONDITIONS ARE PRESENT THEN SLABS AND WINGWALLS REQUIRE REDESIGNING AND SHALL BE SUBMITTED TO MAIN ROADS FOR REVIEW AND APPROVAL.
- 2.3 CONCRETE FINISHES SHALL CONFORM TO THE FOLLOWING :-
 - U2 INDICATES A FORMED CONCRETE SURFACE FINISH AND SHALL BE IN ACCORDANCE WITH AS 3610.1
 - U2 INDICATES AN UNFORMED CONCRETE SURFACE (REFER TO SPECIFICATION 901)

- 2.4 ALL EXPOSED CONCRETE EDGES SHALL HAVE 20 X 20 CHAMFERS U.N.O.

3. REINFORCEMENT

- 3.1 REINFORCEMENT STEEL SHALL BE IN ACCORDANCE WITH MAIN ROADS SPECIFICATION 822 STEEL REINFORCEMENT.
- 3.2 THE REINFORCEMENT SYMBOLS AND DENOTATIONS ARE AS FOLLOWS :-
 - N - HOT ROLLED DEFORMED GRADE D500N BAR OF 500 MPa YIELD STRENGTH
 - SL - GRADE D500L FABRIC OF 500 MPa YIELD STRENGTHU.N.O, ALL BAR LAPS LENGTH SHALL BE A MINIMUM OF 45D AND A MAXIMUM OF 45D+150 FOR REINFORCING BARS. STOCK LENGTHS AND STAGGERED LAPS SHALL BE PROVIDED. U.N.O, ALL FABRIC OVERLAPS SHALL BE A MINIMUM OF TWO CROSS WIRES ON BOTH SHEETS.
- 3.3 REINFORCEMENT SHALL NOT BE WELDED OR HEAT TREATED.
- 3.4 CUTTING AND BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS 3600.
- 3.5 REINFORCEMENT PLACEMENT ABBREVIATIONS ARE :-
 - FF - FAR FACE
 - NF - NEAR FACE
 - EF - EACH FACE
 - T - TOP
 - TS - TOP SECONDARY
 - B - BOTTOM
 - BS - BOTTOM SECONDARY
- 3.6 FABRIC MAIN REINFORCING WIRES SHALL BE AT RIGHT ANGLES TO FLOW DIRECTION. APRON SLAB REINFORCEMENT SHALL BE PLACED SQUARE WITH THE CULVERT UNITS UNLESS OTHERWISE SHOWN.

4. ROAD SAFETY BARRIERS

- 4.1 ROAD SAFETY BARRIERS IF REQUIRED SHALL BE SHOWN ON THE PROJECT SPECIFIC DRAWINGS.

5. INSTALLATION

- 5.1 THE SERVICEABILITY LIMIT STATE BEARING CAPACITY SHALL BE NOT LESS THAN 250 kPa. A GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE BEARING PRESSURE IS ADEQUATE
- 5.2 THE INSTALLATION AND BACKFILLING OF PIPE CULVERTS SHALL BE IN ACCORDANCE WITH MAIN ROADS SPECIFICATION 404.
- 5.3 BACKFILL MATERIAL IN ZONE OF SPECIAL COMPACTION AND CEMENT STABILISED BACKFILL SHALL COMPLY WITH MAIN ROADS SPECIFICATION 404.
- 5.4 THE NEED FOR SCOUR PROTECTION SHALL BE DETERMINED BY THE PROJECT ENGINEER. THE DEPTH OF APRON SLAB DOWNSTANDS MAY BE VARIED TO SUIT THE ROCK PROTECTION. ROCK PROTECTION SHALL COMPLY WITH MAIN ROADS SPECIFICATION 406 ROCK PROTECTION.

REFERENCE DRAWINGS						REFERENCE MODELS					
						531071-SP0001-MDA-PW-0023 531071-SP0001-MDA-PW-0024					
REV	DATE	REVISION DETAILS				REV	DRAWN	DESIGNED	VERIFIED	APPROVED	
A	2026-07-13	ISSUED FOR REVIEW				A	T.P	A.S	P.H	O.B	



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CERTIFICATION

No. CERTIFIER DATE

CLIENT

COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER

TWF-PG2010-000-CIV-LAY-0002-00

REV

All written dimensions take precedence over scaled dimensions.



Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS

NOT FOR CONSTRUCTION

DRAWN BY

T.PHAM

DESIGNED BY

A.SALVADOR

STATUS

CONCEPT DESIGN AND PLANNING

DOCUMENT STATE

PUBLISHED

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
CIVIL WORKS
DRAINAGE DETAILS DRAWING 5 OF 6

DOCUMENT CODE

531071-SP0001-DRG-PW-0405

SCALE

NOT TO SCALE

SIZE

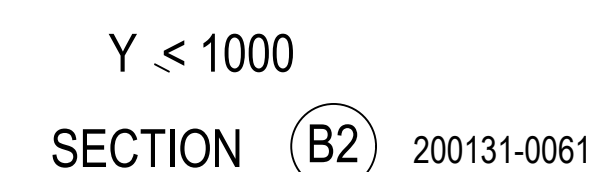
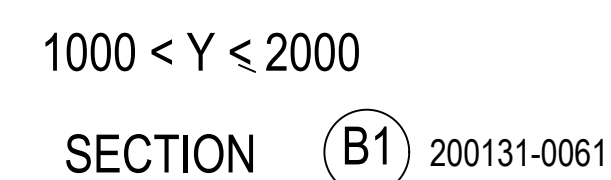
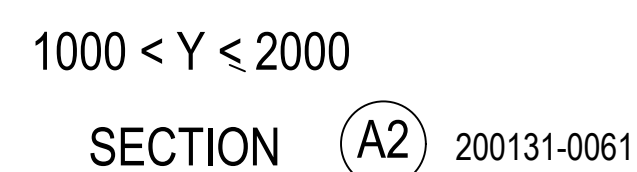
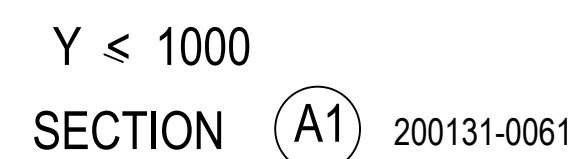
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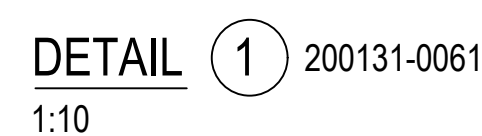
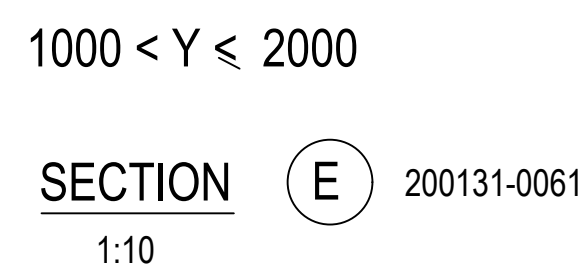
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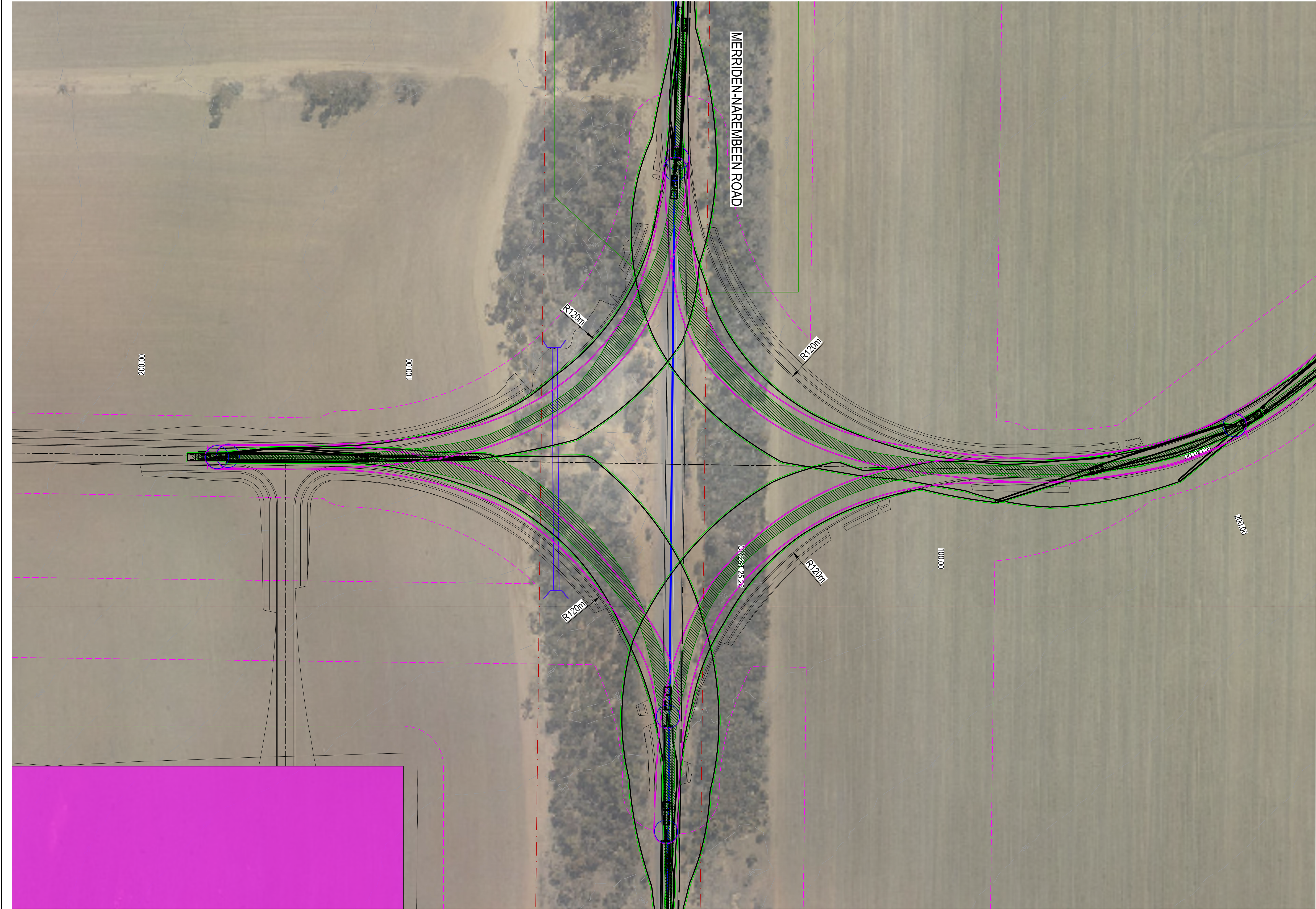
WINGWALL DETAILS
N.T.S.



THESE DETAILS ARE NOT SUITABLE FOR
HEADWALLS GREATER THAN 2000 HIGH

				All written dimensions take precedence over scaled dimensions.				CONSTRUCTION STATUS NOT FOR CONSTRUCTION		PROJECT TANDEGIN WIND FARM ENGINEERING CONTRACTOR	
PREPARED BY www.aurecongroup.com				CLIENT 				DRAWN BY T.PHAM		TITLE TANDEGIN WIND FARM CIVIL WORKS DRAINAGE DETAILS DRAWING 6 OF 6	
				 Coordinate system MGA50 GDA2020 Height datum AHD				DESIGNED BY A.SALVADOR			
								STATUS CONCEPT DESIGN AND PLANNING		CODE A2	
				PRINT ALL COPIES IN COLOUR				DOCUMENT STATE PUBLISHED		DOCUMENT CODE 531071-SP0001-DRG-PW-0406	
CERTIFICATION	No.	CERTIFIER	DATE	CLIENT DOCUMENT NUMBER TWE-PG2010-000-CIV-4 AY-0002-00				SCALE	SIZE	REFERENCE No.	REV
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Plot Date: 2026-07-13 3:41 PM Filename: 531071-SP0001-DRG-PW-0115.DWG



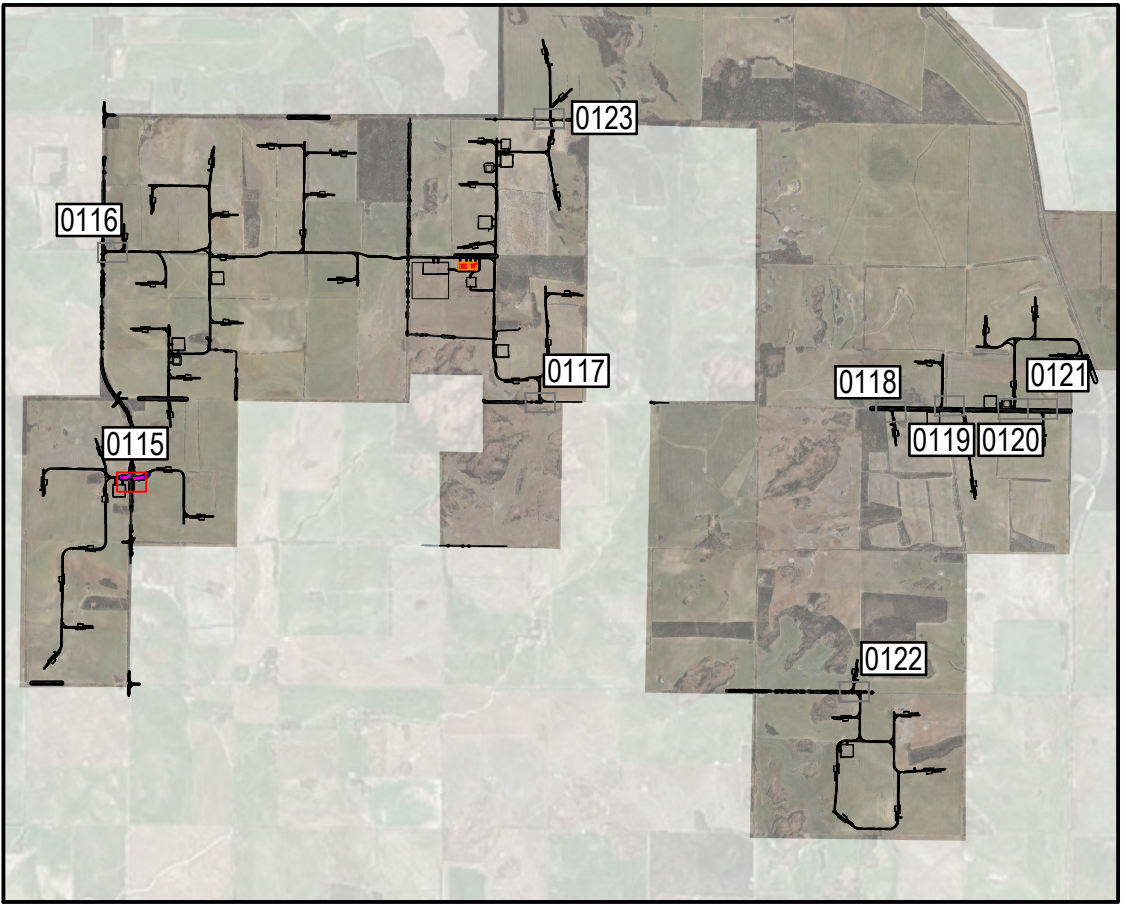
SITE PLAN
SCALE 1:750

LEGEND:

- PROJECT BOUNDARY
- NEW ACCESS ROADS
- NATIVE VEGETATION EXTENT
- DISTRIBUTION OVERHEAD POWERLINES
- MEDIUM SCALE TOPO WATER LINE
- RAIL CORRIDOR
- DISTURBANCE FOOTPRINT
- PROPOSED CONTOURS
- EXISTING ROADS
- BLADE BODY EXTENT
- VEHICLE CHASIS AND WHEEL EXTENT
- HARD STAND
- NEW TURBINE

NOTES:

- SWEPT PATH ANALYSIS HAS BEEN CONDUCTED USING THE 90M DESIGN BLADE VEHICLE IN ACCORDANCE WITH REX J ANDREWS OSOM ROUTE ASSESSMENT. REFER RJA ROUTE ROUTE STUDY GERALDTON/BUNBURY TO TANDEGIN WIND FARM 90 MTR REV00. PARAMETERS ARE NOTED AS:
 - A. BLADES (90.38M L x 4.95M W x 3.58M H x 29.2T).
 - B. POSSIBLE TRANSPORT: PRIME MOVER WITH 2X4-3X8 EXTENDING BLADE TRAILER.
 - C. OVERALL DIMENSIONS: 105.0M L x 5.1M W x 5.5M H x 96.5T.
- VEGETATION AFFECTED BY BLADE SWING WILL NEED TO BE ASSESSED FOR POTENTIAL REMOVAL.



SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
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			531071-SP0001-MDA-PW-0024				
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A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

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1:750

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CLIENT



Coordinate system
MGA50 GDA2020

Height datum
AHD



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CERTIFICATION

No.

CERTIFIER

DATE

CLIENT DOCUMENT NUMBER

TWF-PG2010-100-CIV-DRW-0001-01

REV

CONSTRUCTION STATUS		PROJECT			
NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY T.PHAM		TITLE TADEGIN WIND FARM PUBLIC INTERSECTION DRAWING MERRIRDEN-NAREMBEN SOUTH SITE ENTRY			
DESIGNED BY H.PACKER		DOCUMENT CODE 531071-SP0001-DRG-PW-0115			
STATUS CONCEPT DESIGN AND PLANNING		CODE A2	SCALE 1:750	SIZE A1	REFERENCE No. DRG-PW-0115
DOCUMENT STATE PUBLISHED		REV A			

Plot Date: 2026-07-13 3:41 PM Filename: 531071-SP0001-DRG-PW-0117.DWG



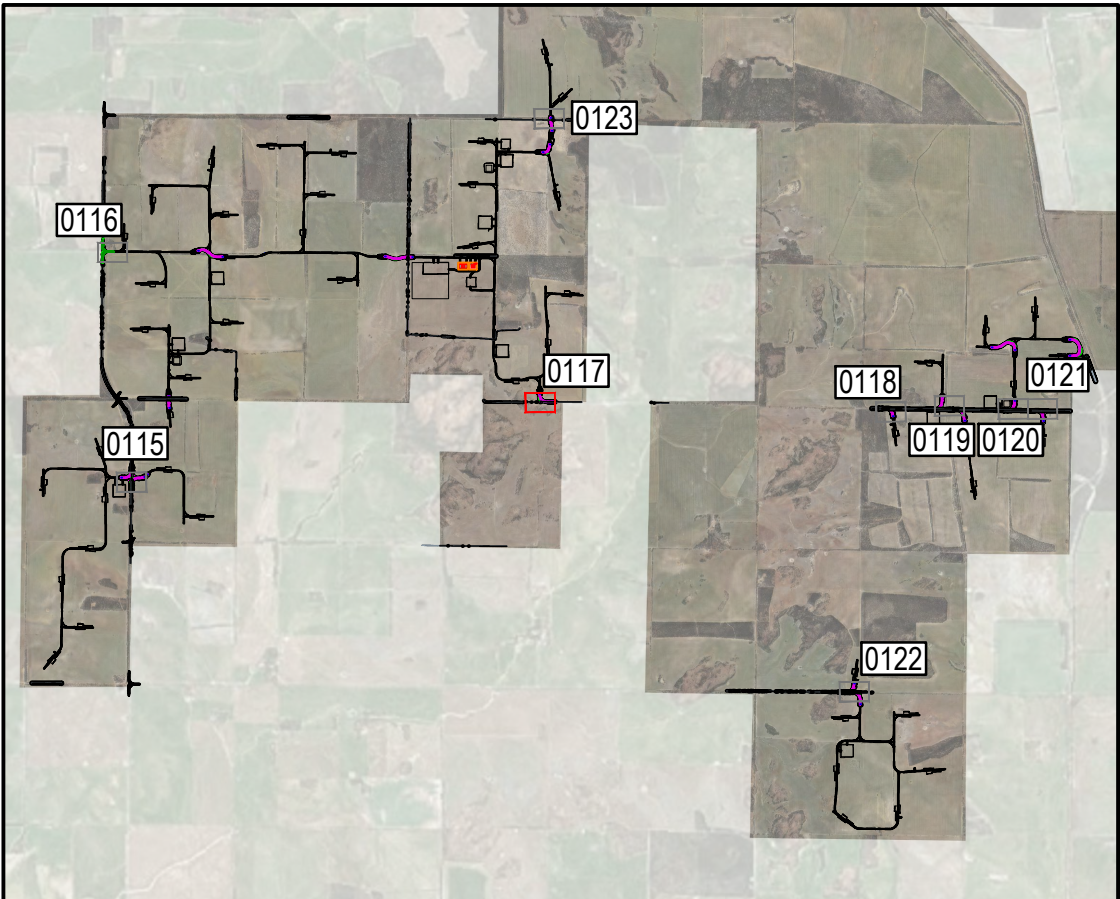
SITE PLAN
SCALE 1:750

LEGEND:

- PROJECT BOUNDARY
- NEW ACCESS ROADS
- NATIVE VEGETATION EXTENT
- DISTRIBUTION OVERHEAD POWERLINES
- MEDIUM SCALE TOPO WATER LINE
- RAIL CORRIDOR
- DISTURBANCE FOOTPRINT
- PROPOSED CONTOURS
- EXISTING ROADS
- BLADE BODY EXTENT
- VEHICLE CHASIS AND WHEEL EXTENT
- HARD STAND
- NEW TURBINE

NOTES:

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 - A. BLADES (90.38M L x 4.95M W x 3.58M H x 29.2T).
 - B. POSSIBLE TRANSPORT: PRIME MOVER WITH 2X4-3X8 EXTENDING BLADE TRAILER.
 - C. OVERALL DIMENSIONS: 105.0M L x 5.1M W x 5.5M H x 96.5T.
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SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
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A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

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1:750

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CLIENT
COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-100-CIV-DRW-0001-03

REV

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Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS
NOT FOR CONSTRUCTION

DRAWN BY
T.PHAM

DESIGNED BY
H.PACKER

STATUS
CONCEPT DESIGN AND PLANNING

DOCUMENT STATE
PUBLISHED

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TANDEGIN WIND FARM
PUBLIC INTERSECTION DRAWING
TANDEGIN WEST WESTERN SITE ENTRY

DOCUMENT CODE
531071-SP0001-DRG-PW-0117

SCALE
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SIZE
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REFERENCE No.
DRG-PW-0117

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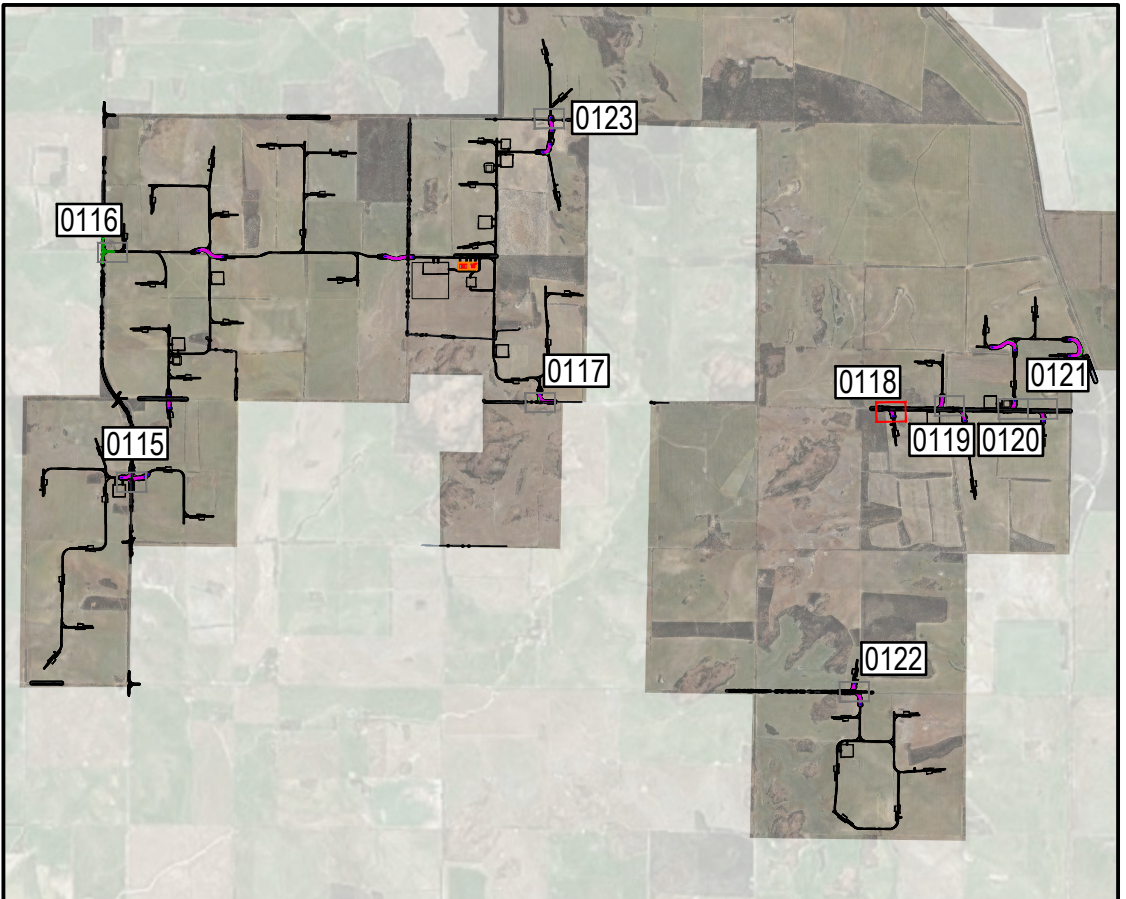
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SITE PLAN
SCALE 1:750

- LEGEND:**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - MEDIUM SCALE TOPO WATER LINE
 - RAIL CORRIDOR
 - DISTURBANCE FOOTPRINT
 - PROPOSED CONTOURS
 - EXISTING ROADS
 - BLADE BODY EXTENT
 - VEHICLE CHASSIS AND WHEEL EXTENT
 - HARD STAND
 - NEW TURBINE

- NOTES:**
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 - A. BLADES (90.38M L x 4.95M W x 3.58M H x 29.2T).
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SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
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A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

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Coordinate system
MGA50 GDA2020

Height datum
AHD



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CLIENT DOCUMENT NUMBER

TWF-PG2010-100-CIV-DRW-0001-04

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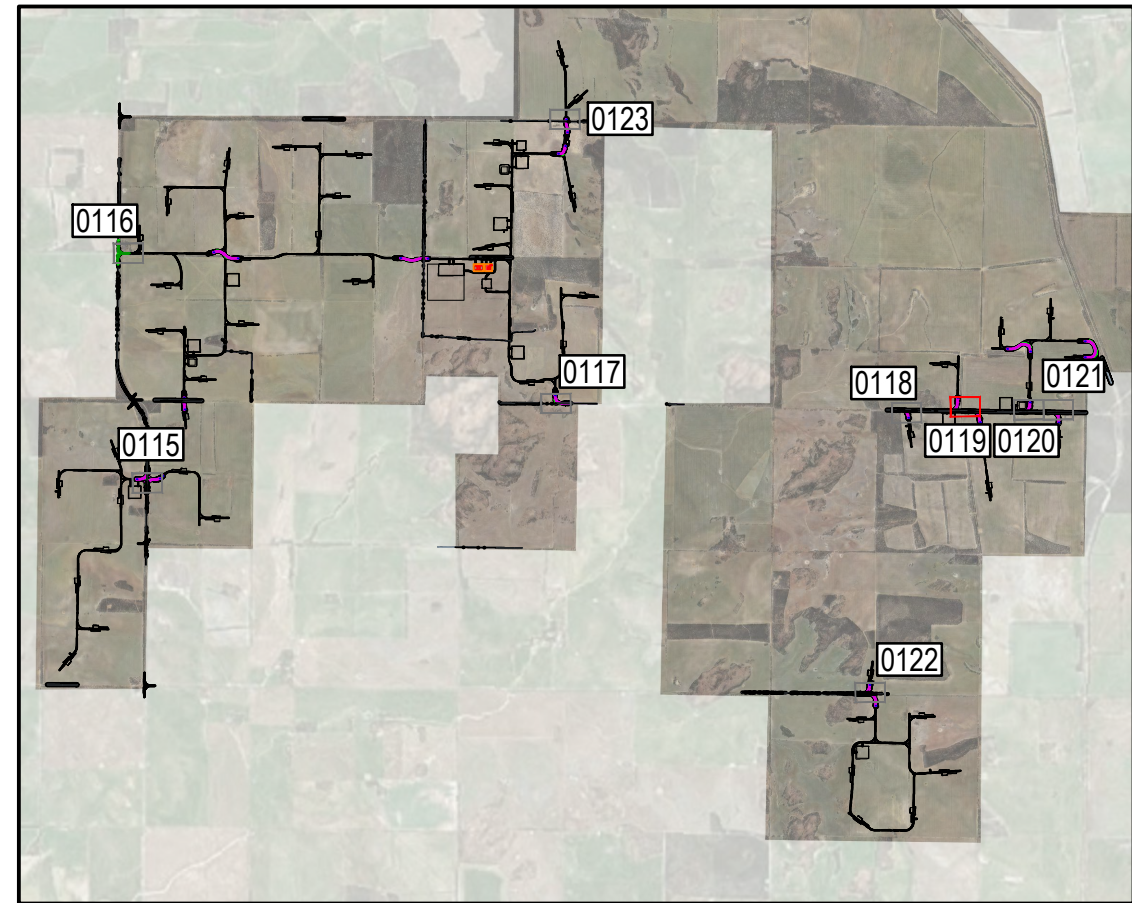
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NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY		TITLE			
T.PHAM		TANDEGIN WIND FARM PUBLIC INTERSECTION DRAWING TANDEGIN WEST T43 SITE ENTRY			
DESIGNED BY		DOCUMENT CODE			
H.PACKER		531071-SP0001-DRG-PW-0118			
STATUS	CODE	SCALE	SIZE	REFERENCE No.	REV
CONCEPT DESIGN AND PLANNING	A2	1:750	A1	DRG-PW-0118	A
DOCUMENT STATE		PUBLISHED			



LEGEND:

- PROJECT BOUNDARY
- NEW ACCESS ROADS
- NATIVE VEGETATION EXTENT
- DISTRIBUTION OVERHEAD POWERLINES
- MEDIUM SCALE TOPO WATER LINE
- RAIL CORRIDOR
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SITE PLAN
SCALE 1:750

SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
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REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

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1:750

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CLIENT DOCUMENT NUMBER
TWF-PG2010-100-CIV-DRW-0001-05

REV

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Coordinate system
MGA50 GDA2020

Height datum
AHD

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CONSTRUCTION STATUS	
NOT FOR CONSTRUCTION	
DRAWN BY	T.PHAM
DESIGNED BY	H.PACKER
STATUS	CONCEPT DESIGN AND PLANNING
DOCUMENT STATE	PUBLISHED

CODE
A2

PROJECT			
TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
TITLE			
TADEGIN WIND FARM PUBLIC INTERSECTION DRAWING TANDEGIN WEST T35 AND T41 SITE ENTRY			
DOCUMENT CODE			
531071-SP0001-DRG-PW-0119			
SCALE	SIZE	REFERENCE No.	REV
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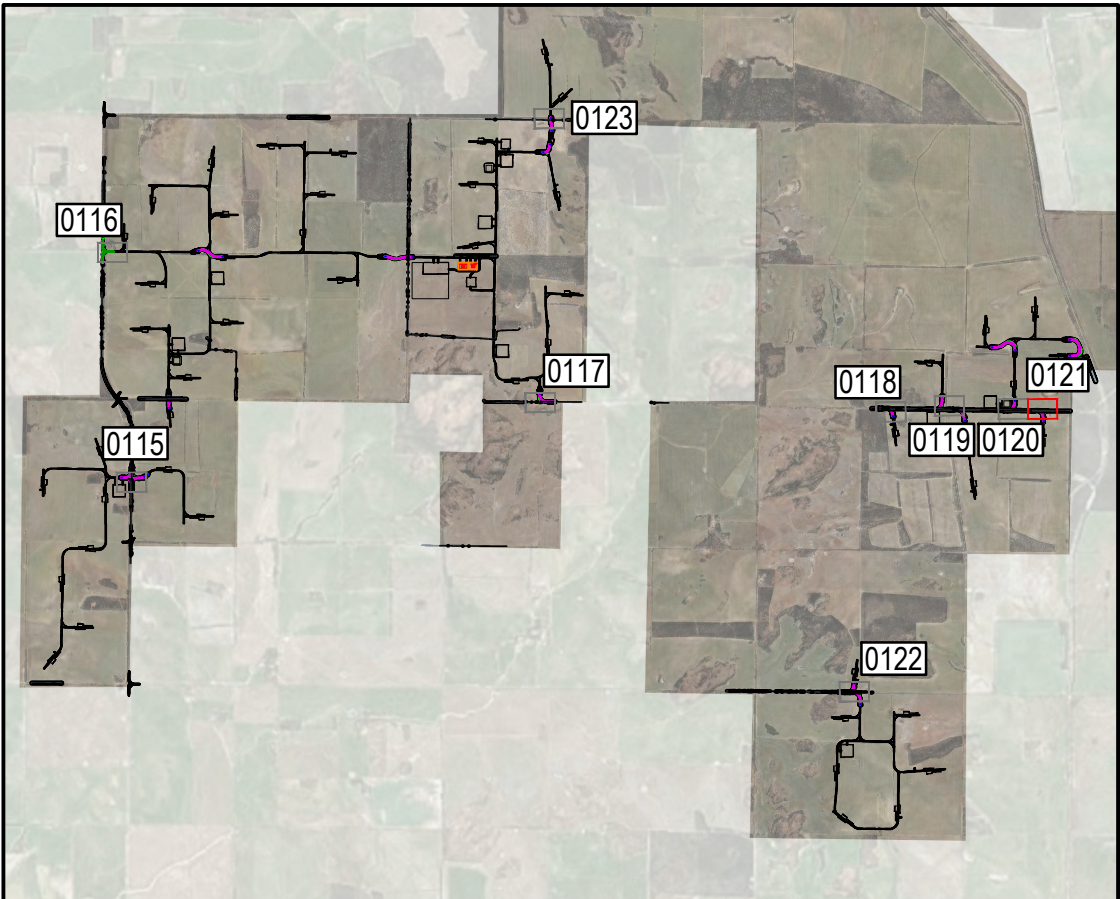
Plot Date: 2026-07-13 3:43 PM Filename: 531071-SP0001-DRG-PW-0121.DWG



SITE PLAN
SCALE 1:750

- LEGEND:**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - MEDIUM SCALE TOPO WATER LINE
 - RAIL CORRIDOR
 - DISTURBANCE FOOTPRINT
 - PROPOSED CONTOURS
 - EXISTING ROADS
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 - HARD STAND
 - NEW TURBINE

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SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
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REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

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1:750

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CLIENT DOCUMENT NUMBER

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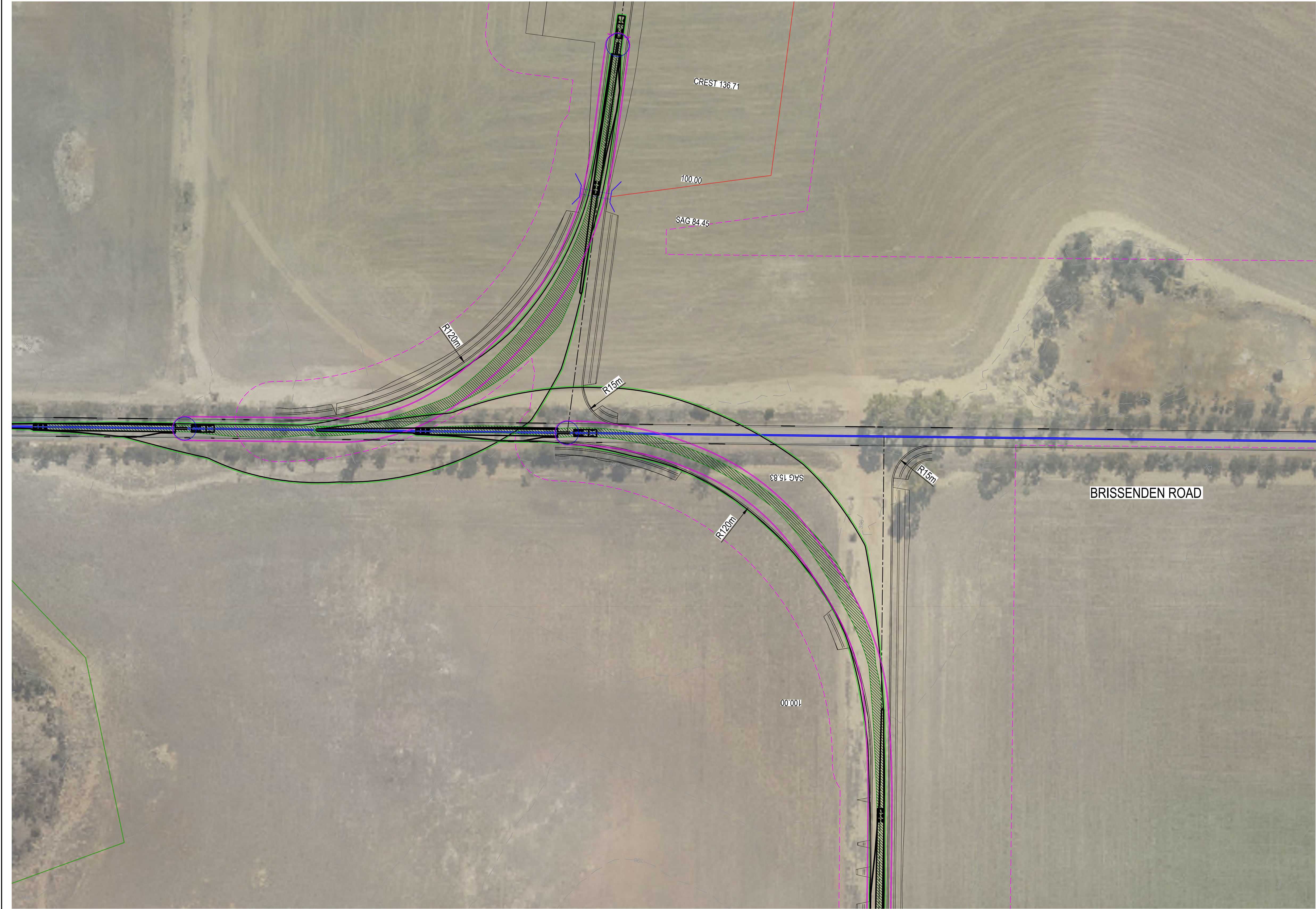

Coordinate system
MGA50 GDA2020
Height datum
AHD

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CONSTRUCTION STATUS		PROJECT			
NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY T.PHAM		TITLE TANDEGIN WIND FARM PUBLIC INTERSECTION DRAWING TANDEGIN WEST T40 SITE ENTRY			
DESIGNED BY H.PACKER		DOCUMENT CODE 531071-SP0001-DRG-PW-0121			
STATUS CONCEPT DESIGN AND PLANNING		CODE A2	SCALE 1:750	SIZE A1	REFERENCE No. DRG-PW-0121
DOCUMENT STATE PUBLISHED		REV A			

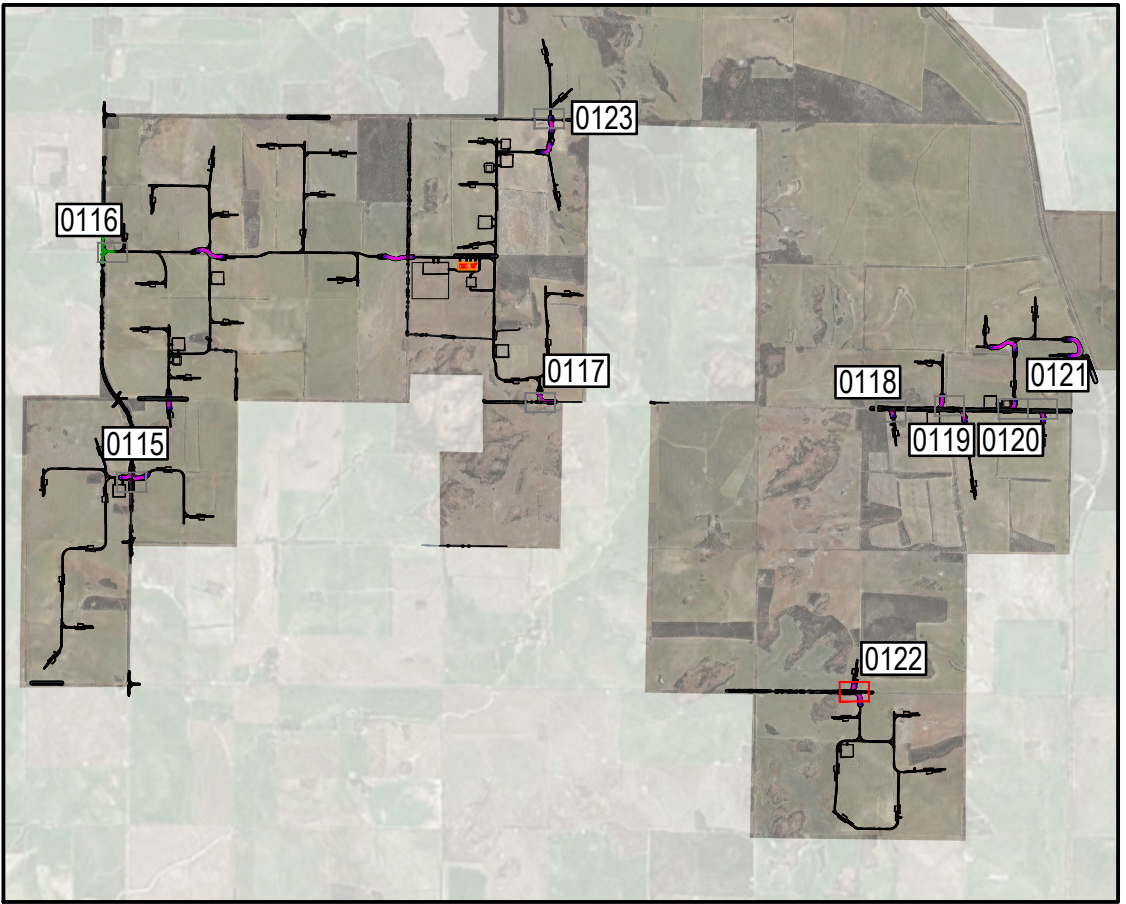
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SITE PLAN
SCALE 1:750

- LEGEND:**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - MEDIUM SCALE TOPO WATER LINE
 - RAIL CORRIDOR
 - DISTURBANCE FOOTPRINT
 - PROPOSED CONTOURS
 - EXISTING ROADS
 - BLADE BODY EXTENT
 - VEHICLE CHASIS AND WHEEL EXTENT
 - HARD STAND
 - NEW TURBINE

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SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
			531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

7.50 0 15 30 m

1:750

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Coordinate system
MGA50 GDA2020

Height datum
AHD



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CERTIFICATION

No.

CERTIFIER

DATE

CLIENT DOCUMENT NUMBER

TWF-PG2010-100-CIV-DRW-0001-08

REV

CONSTRUCTION STATUS		PROJECT			
NOT FOR CONSTRUCTION		TANDEGIN WIND FARM ENGINEERING CONTRACTOR			
DRAWN BY		TITLE			
T.PHAM		TADEGIN WIND FARM PUBLIC INTERSECTION DRAWING BRISSENDEN ROAD SITE ENTRY			
DESIGNED BY		DOCUMENT CODE			
H.PACKER		531071-SP0001-DRG-PW-0122			
STATUS	CODE	SCALE	SIZE	REFERENCE No.	REV
CONCEPT DESIGN AND PLANNING	A2	1:750	A1	DRG-PW-0122	A
DOCUMENT STATE		PUBLISHED			

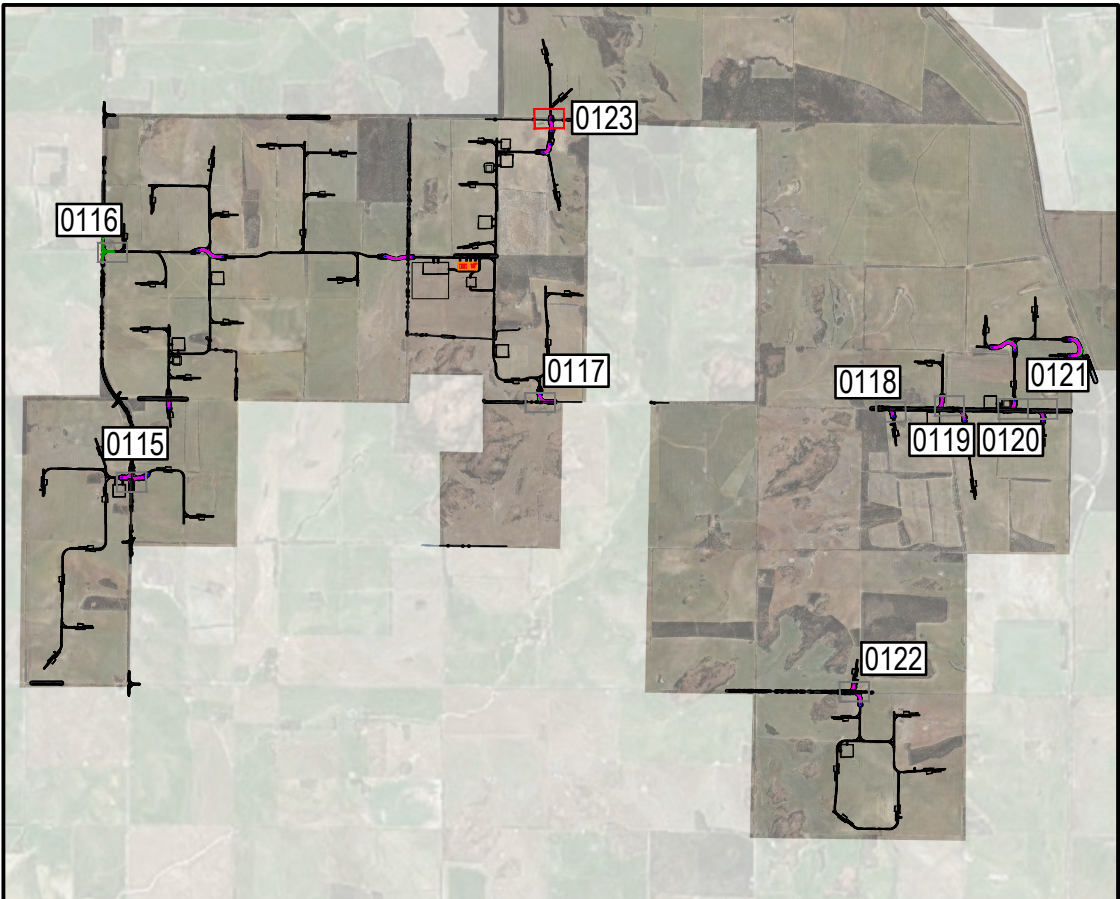
Plot Date: 2026-07-13 3:43 PM Filename: 531071-SP0001-DRG-PW-0123.DWG



SITE PLAN
SCALE 1:750

- LEGEND:**
- PROJECT BOUNDARY
 - NEW ACCESS ROADS
 - NATIVE VEGETATION EXTENT
 - DISTRIBUTION OVERHEAD POWERLINES
 - MEDIUM SCALE TOPO WATER LINE
 - RAIL CORRIDOR
 - DISTURBANCE FOOTPRINT
 - PROPOSED CONTOURS
 - EXISTING ROADS
 - BLADE BODY EXTENT
 - VEHICLE CHASSIS AND WHEEL EXTENT
 - HARD STAND
 - NEW TURBINE

- NOTES:**
- SWEPT PATH ANALYSIS HAS BEEN CONDUCTED USING THE 90M DESIGN BLADE VEHICLE IN ACCORDANCE WITH REX J ANDREWS OSOM ROUTE ASSESSMENT. REFER RJA ROUTE STUDY GERALDTON/BUNBURY TO TANDEGIN WIND FARM 90 MTR REV00. PARAMETERS ARE NOTED AS:
 - A. BLADES (90.38M L x 4.95M W x 3.58M H x 29.2T).
 - B. POSSIBLE TRANSPORT: PRIME MOVER WITH 2X4-3X8 EXTENDING BLADE TRAILER.
 - C. OVERALL DIMENSIONS: 105.0M L x 5.1M W x 5.5M H x 96.5T.
 - VEGETATION AFFECTED BY BLADE SWING WILL NEED TO BE ASSESSED FOR POTENTIAL REMOVAL.



SHEET INDEX

REFERENCE DRAWINGS			REFERENCE MODELS				
			531071-SP0001-MDA-PW-0023				
			531071-SP0001-MDA-PW-0024				
REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2026-07-13	ISSUED FOR REVIEW	A	T.P	H.P	L.K	O.B

7.50 0 15 30 m
1:750

PREPARED BY
aurecon
www.aurecongroup.com

CERTIFICATION No. CERTIFIER DATE

CLIENT
COLLGAR RENEWABLES

CLIENT DOCUMENT NUMBER
TWF-PG2010-100-CIV-DRW-0001-09

REV

All written dimensions take precedence over scaled dimensions.

Coordinate system
MGA50 GDA2020
Height datum
AHD

PRINT ALL COPIES IN COLOUR

CONSTRUCTION STATUS
NOT FOR CONSTRUCTION

DRAWN BY
T.PHAM

DESIGNED BY
H.PACKEER

STATUS
CONCEPT DESIGN AND PLANNING

DOCUMENT STATE
PUBLISHED

PROJECT
TANDEGIN WIND FARM
ENGINEERING CONTRACTOR

TITLE
TADEGIN WIND FARM
PUBLIC INTERSECTION DRAWING
OLD MUNTADGIN ROAD SITE ENTRY

DOCUMENT CODE
531071-SP0001-DRG-PW-0123

SCALE
1:750

SIZE
A1

REFERENCE No.
DRG-PW-0123

REV
A