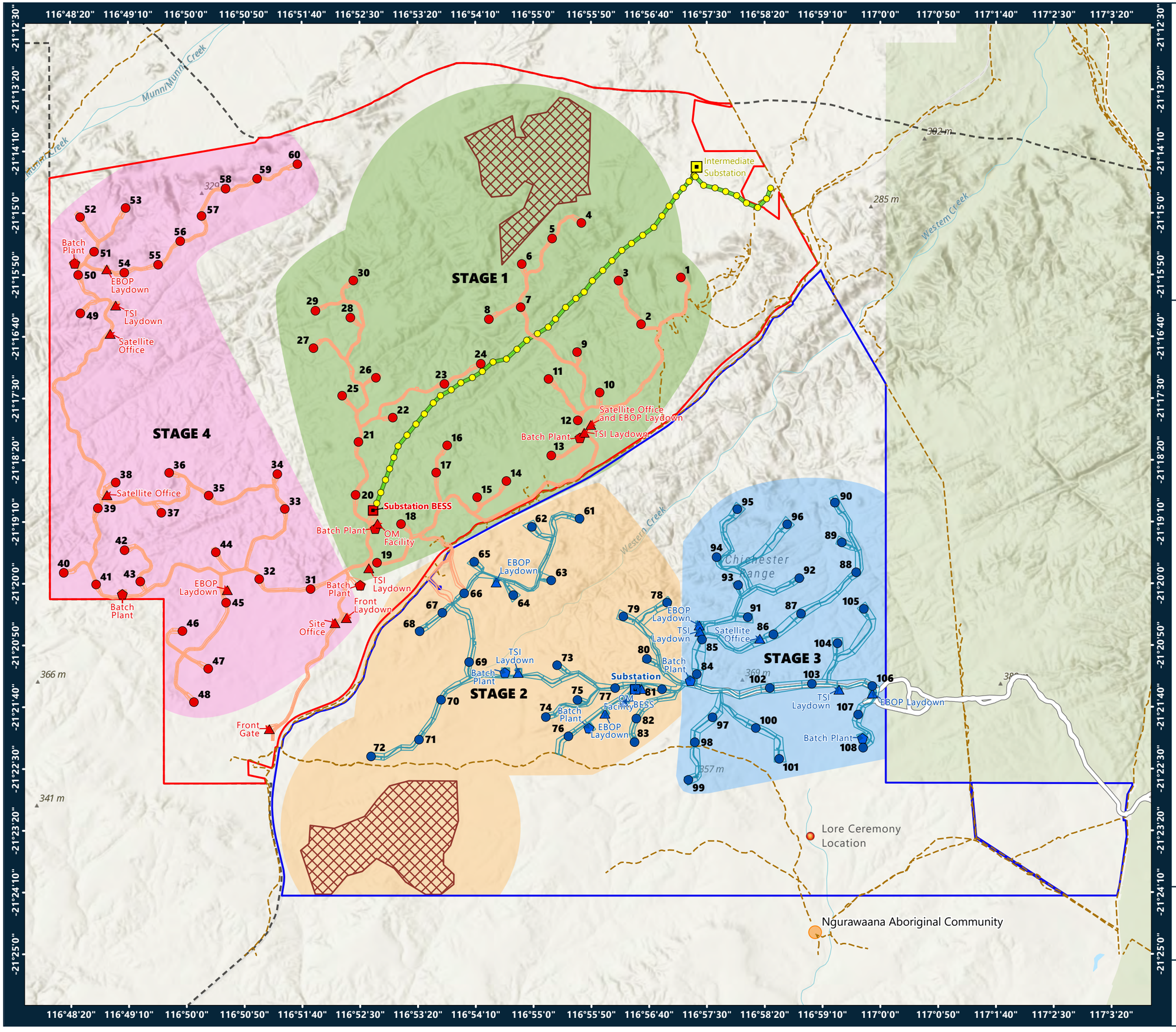
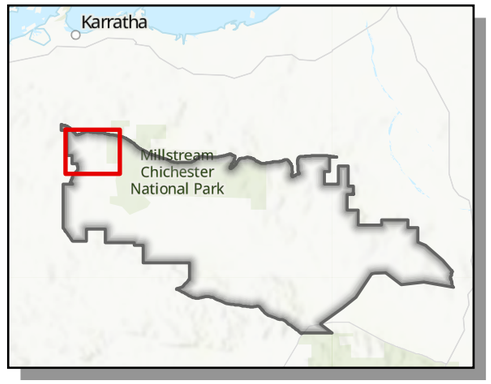




YEC Baru Marnda Project Area Site Map Layout

- Baru Project Area
- Marnda Project Area
- Baru & Marnda Solar Areas
- YEC ILUA Boundary
- Millstream Access Track Options

Staging Areas

- Stage 1
- Stage 2
- Stage 3
- Stage 4

WTG & Transmission Layout

- Baru WTG (60)
- CRC Transmission Structures (48)
- Intermediate Substation (1)
- Marnda Substation (1)
- Baru Substation BESS (1)
- Marnda Batch Plant (3)
- Baru Batch Plant (5)
- Other Marnda Sites (4 EBOP Laydowns, 3 TSI Laydowns, 1 Satellite Office, 1 OM Facility, 1 BESS)
- Other Baru Sites (2 EBOP Laydowns, 3 TSI Laydowns, 1 Front Laydown, 2 Satellite Offices, 1 Satellite Office & EBOP Laydown, 1 Site Office, 1 OM Facility, 1 Front Gate)
- Baru WTG Reticulation
- Marnda WTG Reticulation
- CRC Transmission (Option 1 Stage 1)

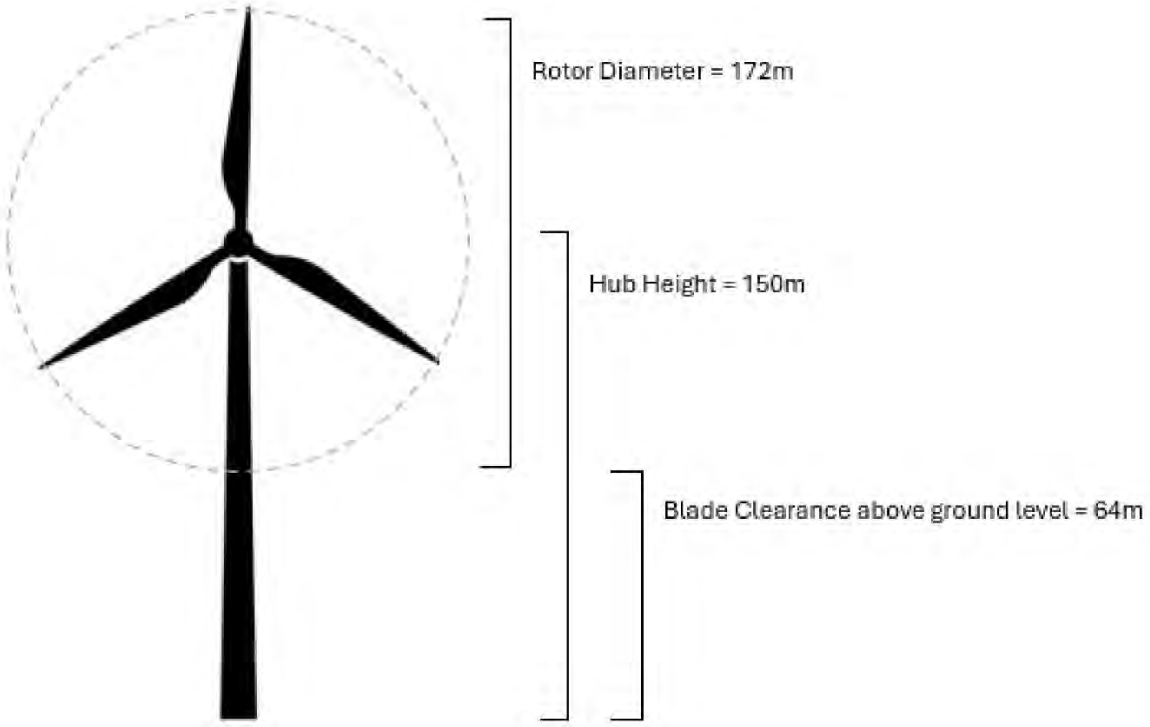
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Coordinate System: GDA2020 MGA Zone 50 **Scale:** 1:90,000
Date: 29/07/2026 **Size:** A3L

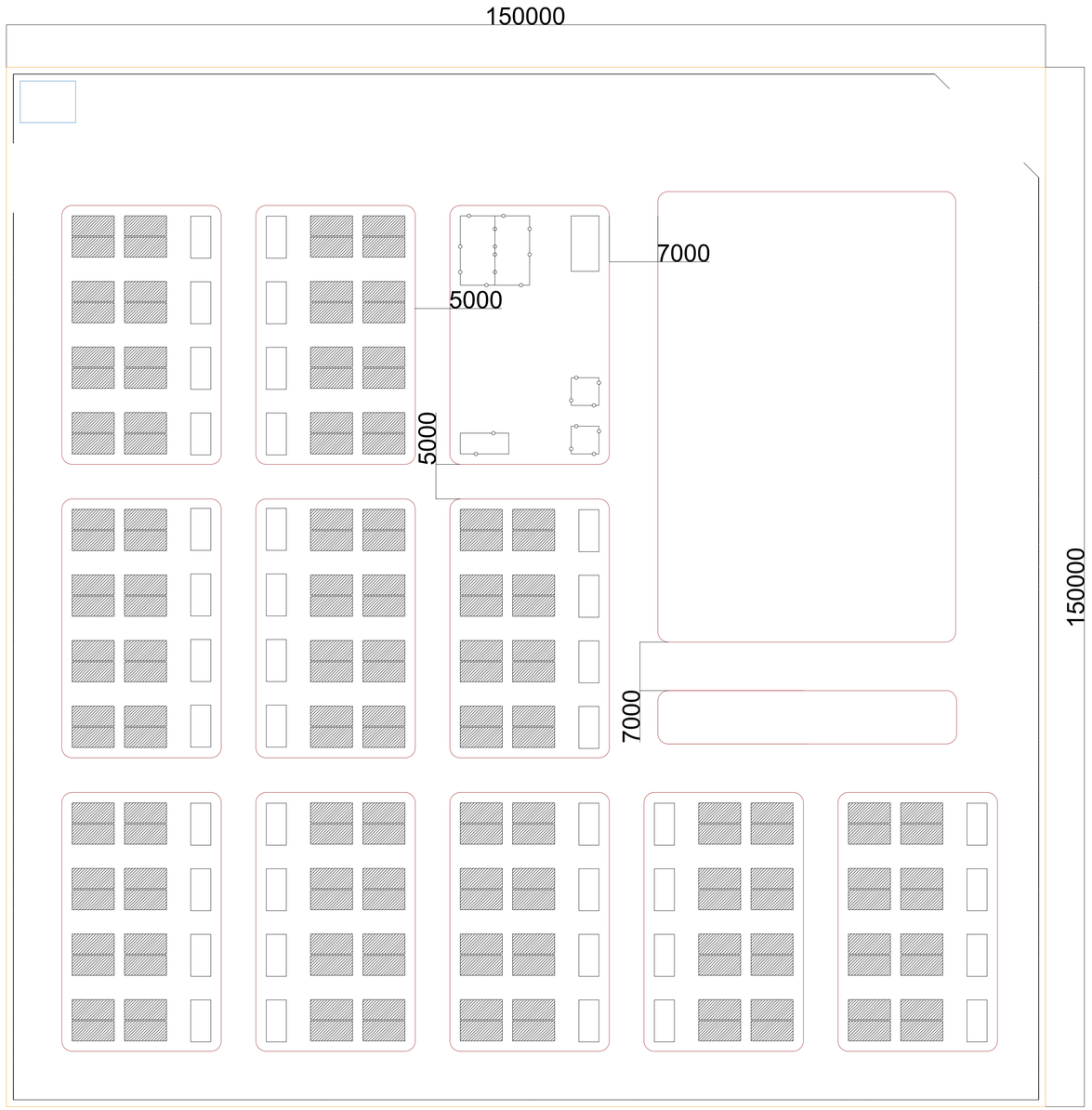
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RFF Yindjibarndi Energy
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Subject	Value
Hub height	150 m
Rotor diameter	172 m
Blade tip clearance above ground level	64 m
Cut-in wind speed	3 m/s
Cut-out wind weed	25 m/s
Rotor sweep area	23,235 m^2
Recyclability rate	86%
Carbon footprint	6.4gCO^2E/KWh



EQUIPMENT LIST	
EQUIPMENT	QUANTITY
BESS CONTAINERS	160
INVERTERS	960
POWER SKID TRANSFORMERS	40



PRELIMINARY
NOT FOR CONSTRUCTION

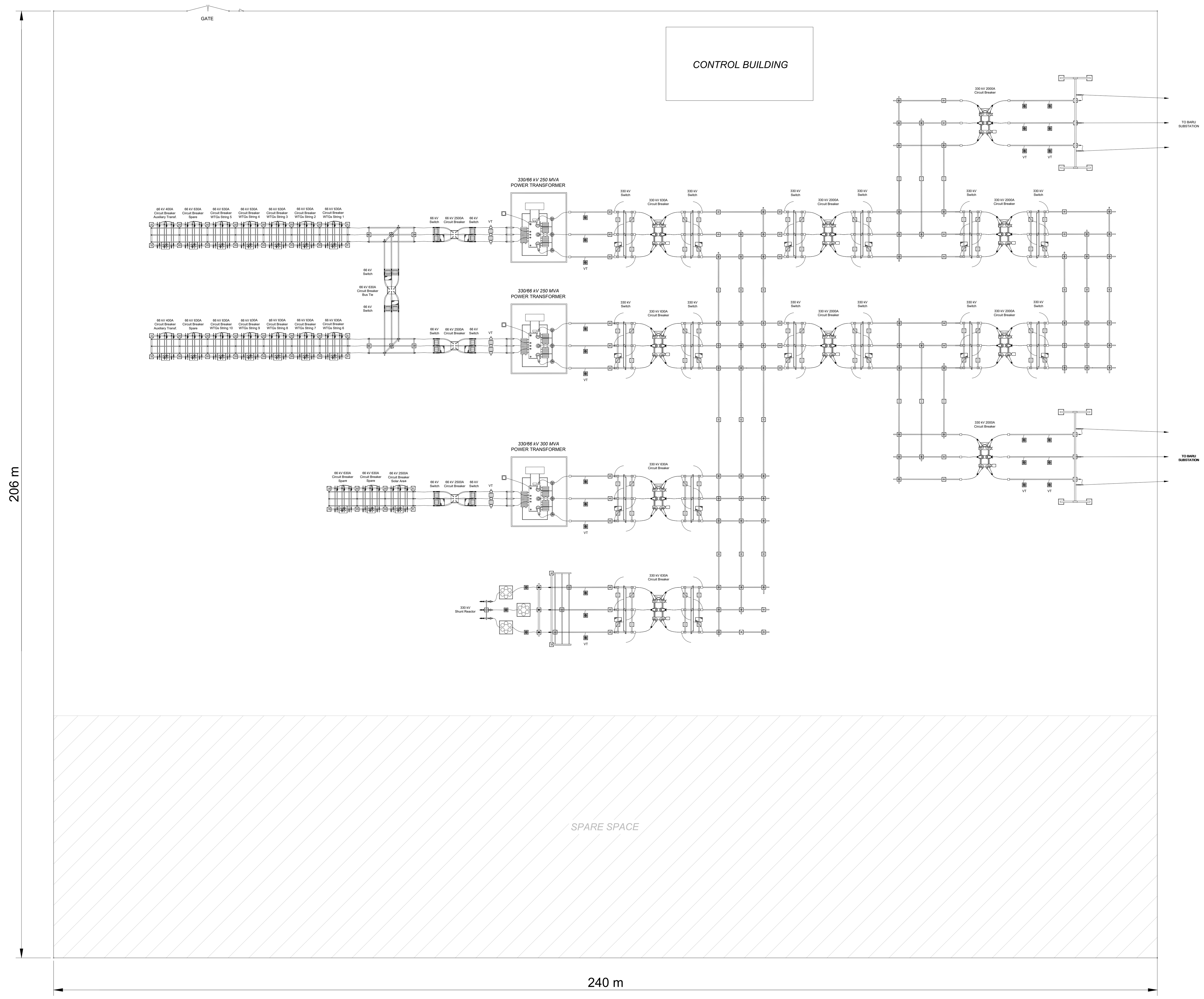
Revision	Description	Date	Drawn	Checked	Approved
01	1st Issue	11.03.2025	BRDS	EHSAN	RTIO

BRDS

RAMBOLL

Yindjibarndi Energy
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Drawing Title: BESS Layout Option 2	Format: A1
	-
	-
Baru & Marnda Project BESS Assessment	Project Number
	Department
	Date: 11/03/2025
	Scale: 1/100
Drawing Number	Page ... from ...: 01 01



0 1600 3200 4800

SCALE IN METERS

ABBREVIATION :

BVT	-	BUSBAR VOLTAGE TRANSFORMER
CB	-	CIRCUIT BREAKER
CT	-	CURRENT TRANSFORMER
DS	-	DISCONNECTOR SWITCH
GS	-	GROUND SWITCH
LVT	-	LINE VOLTAGE TRANSFORMER
SA	-	SURGE ARRESTOR
SR	-	SHUNT REACTOR
TRF	-	TRANSFORMER
POC	-	POINT OF CONNECTION

RECORD DRAWINGS

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By:____________________

Revision	Description	Date	Drawn	Checked	Approved
01	ISSUED AFTER COMMENTS	02.06.2025	BSC	RTI	RTI

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Drawing Title

Baru Substation Layout

Baru & Marnda Project
Options Assessment and Cost Estimate
(Phase 1)

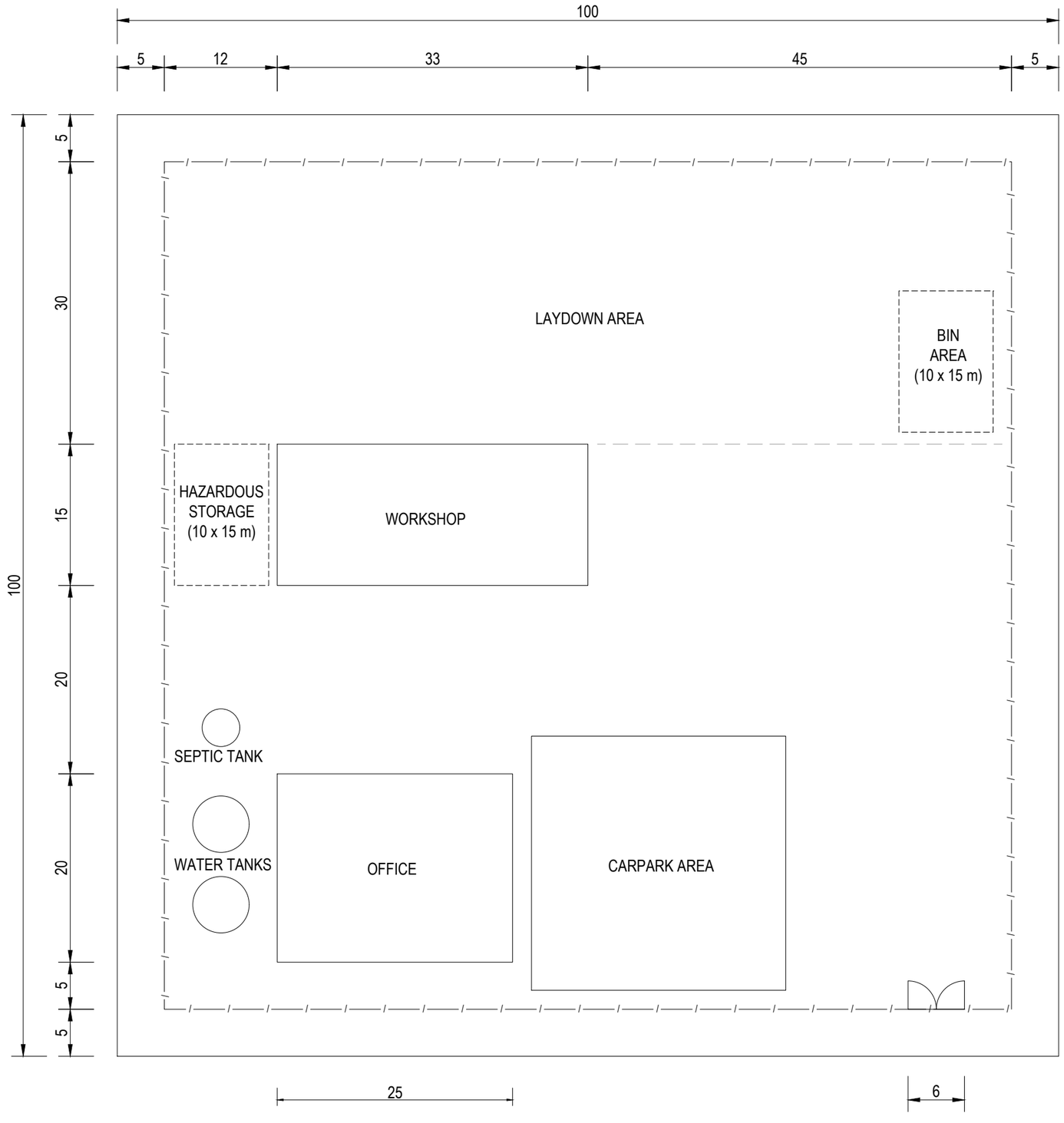
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35123-SS_LAY_BAR

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Project Number	
Department	
Date	02-06-2025
Scale	N/A
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PRELIMINARY NOT FOR CONSTRUCTION

DATE: 02/06/2025



EXAMPLE O & M LAYOUT

SCALE 1: 500

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24-007-YEC PROJECT
EXAMPLE O & M LAYOUT
D.K. 30/09/2026 24-007-YEC-SK01

BARU MARNDA CONCRETE BATCH PLANT CONCEPT LAYOUT - REV A

90 m

70 m

AGGREGATE STOCKPILE
35m x 20m

4 x CEMENT SILOS

FEED HOPPER
12m x 5m

MOBILE BATCH PLANT
18m x 4m

Ø4.5m Ø4.5m Ø4.5m Ø4.5m

WATER TANK
12m x 4m

TRUCK LOADOUT / QUEUING
28m x 12m

WASHOUT PIT
10m x 8m

WHEEL WASH
12m x 4m

SITE OFFICE
12m x 3m

ENTRY GATE 10m

EXIT GATE 10m

YEC

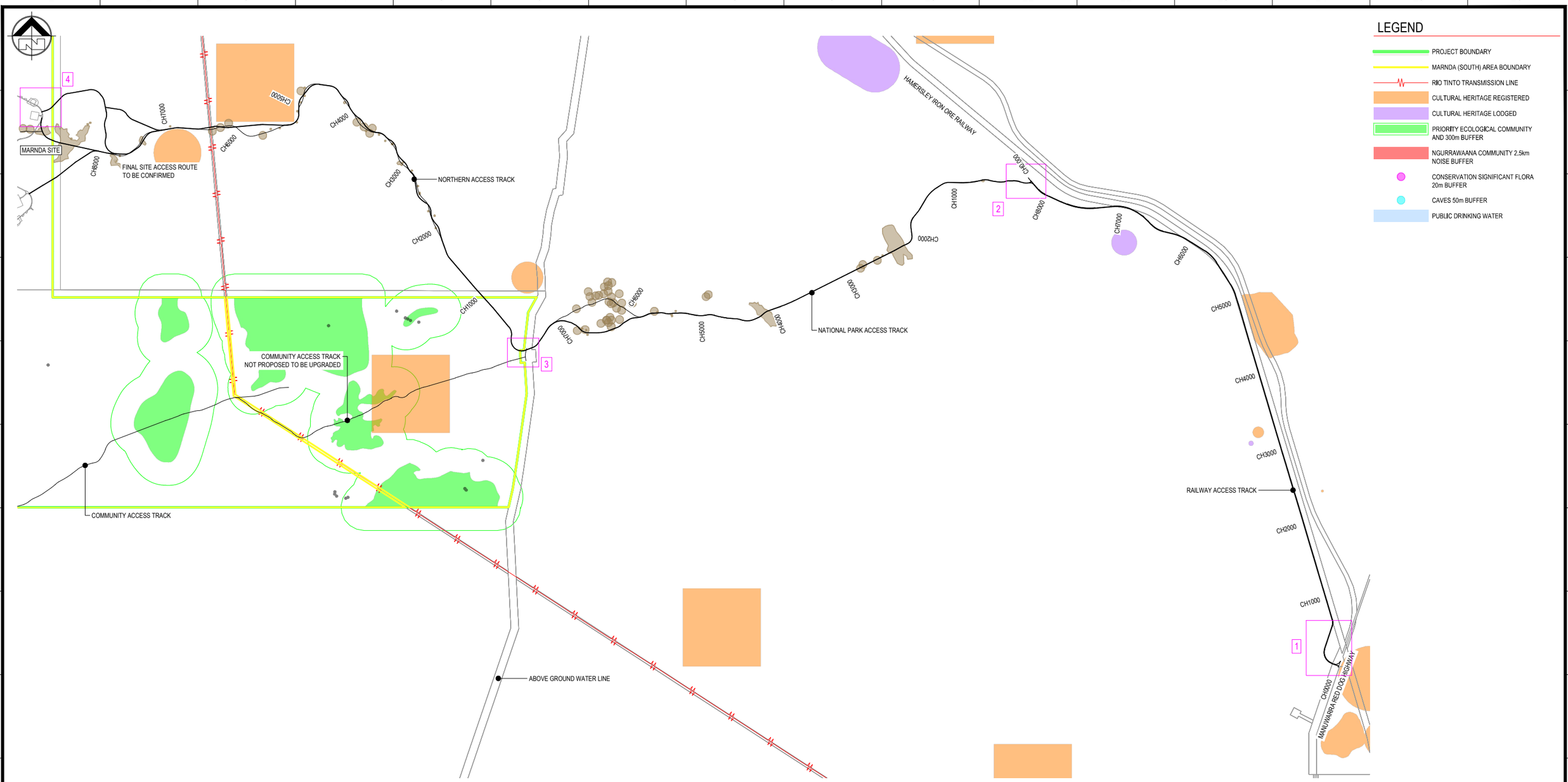
Project: Baru Marnda Wind Farm

Drawing: Concrete Batch Plant

Concept Layout (Mobile Plant)

Compound: 90m x 70m

Rev A



EXTERNAL ACCESS OVERALL LAYOUT

SCALE: 1:50,000

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
A	FOR REVIEW	D.K.	P.V.	F.M.	F.M.	14.11.2025

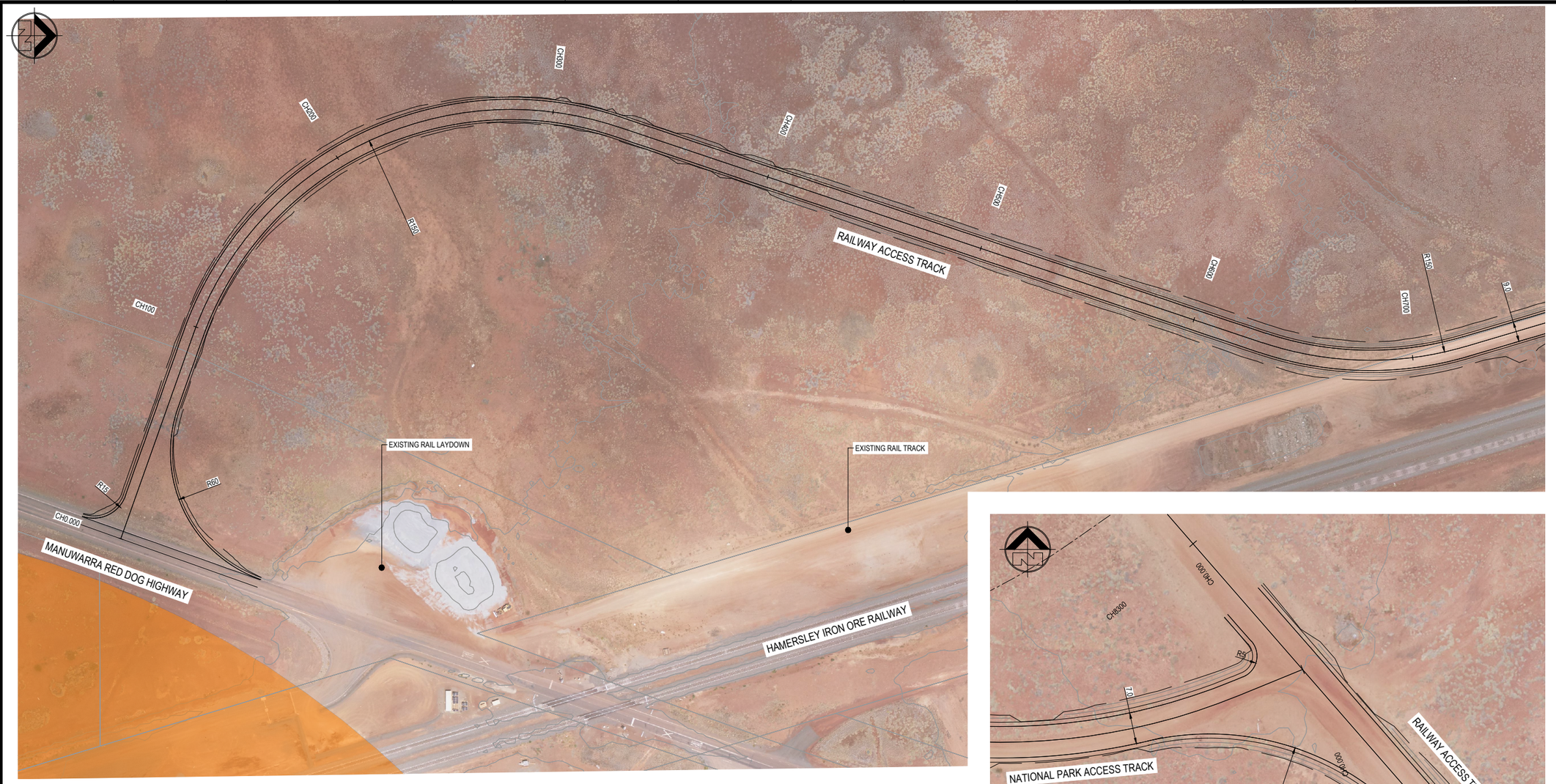
REVISION HISTORY

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STATUS	FOR REVIEW NOT FOR CONSTRUCTION
SIZE	A3
HEIGHT DATUM	AHD
COORDINATE REFERENCE SYSTEM	GDA2020 MGA Z50
	PRINT IN COLOUR
PROJECT	YINDJIBARNDI ENERGY PROJECT
TITLE	EXTERNAL ACCESS OVERALL LAYOUT
DRAWING No.	24-007-YEC-EXT-100-1
REV	A

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[1] MANUWARRA RED DOG HIGHWAY INTERSECTION

SCALE: 1:2,000

[2] RAILWAY ACCESS TRACK / NATIONAL PARK ACCESS TRACK INTERSECTION

SCALE: 1:1,000

LEGEND

- EXISTING CONTOURS (2.0m)
- LANDGATE CADASTRAL BOUNDARY
- CULTURAL HERITAGE REGISTERED

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
A	FOR REVIEW	D.K.	P.V.	F.M.	F.M.	14.11.2025

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COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50

PRINT IN COLOUR

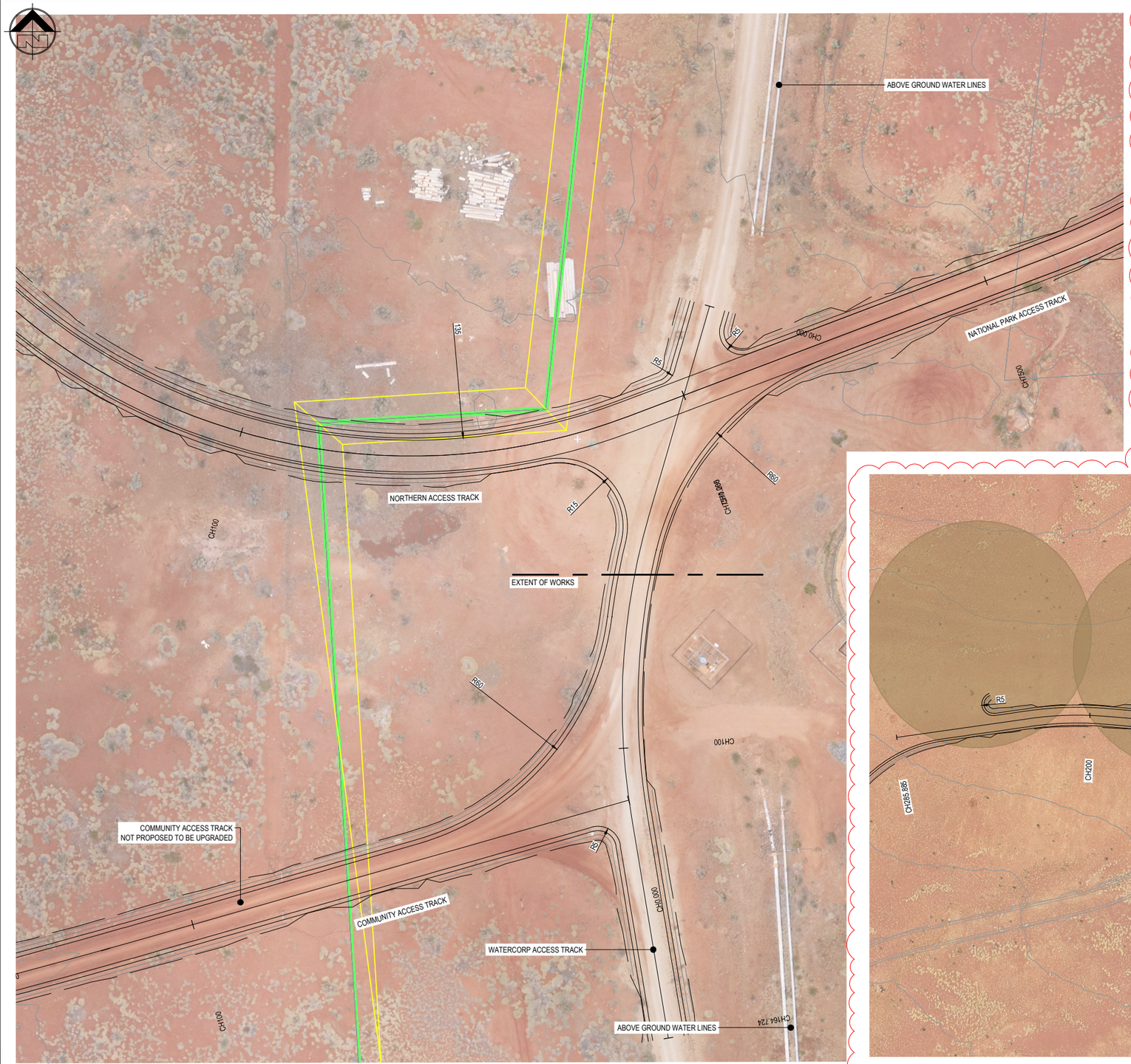
PROJECT: YINDJIBARNDI ENERGY PROJECT

TITLE: EXTERNAL ACCESS INTERSECTIONS SHEET 1

DRAWING No. 24-007-YEC-EXT-102-1

REV: A

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[3] UNDERGROUND WATER LINE CROSSING

SCALE: 1:1,000



[4] NORTHERN ACCESS OPTION TIE INTO INTERNALS

SCALE: 1:2,000

INTERFACE WITH WIND FARM TO BE REDESIGNED FOR UPDATED INTERNAL DESIGN

LEGEND

- PROJECT BOUNDARY
- EXISTING CONTOURS (2.0m)
- MARNDA (SOUTH) AREA BOUNDARY
- LANDGATE CADASTRAL BOUNDARY
- HERITAGE SITES

No	DESCRIPTION	D.K.	P.V.	F.M.	F.M.	DATE
A	FOR REVIEW	DES	DRN	CHK	APP	14.11.2025

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COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50

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PROJECT: YINDJIBARNDI ENERGY PROJECT

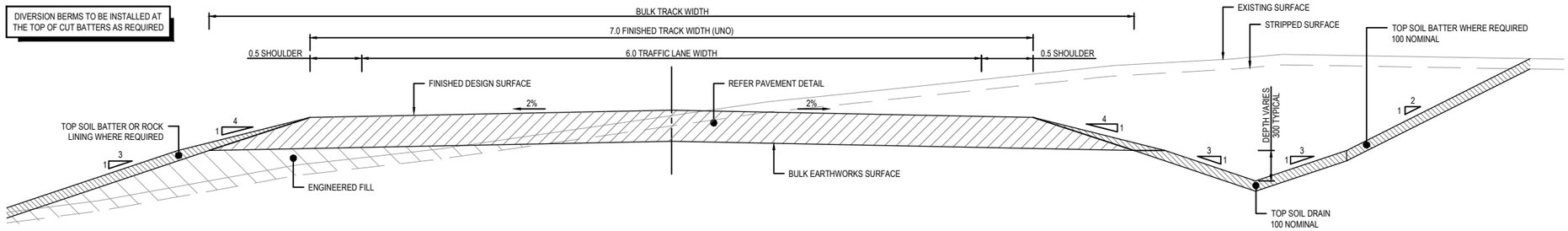
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DRAWING No. 24-007-YEC-EXT-102-2

REV A

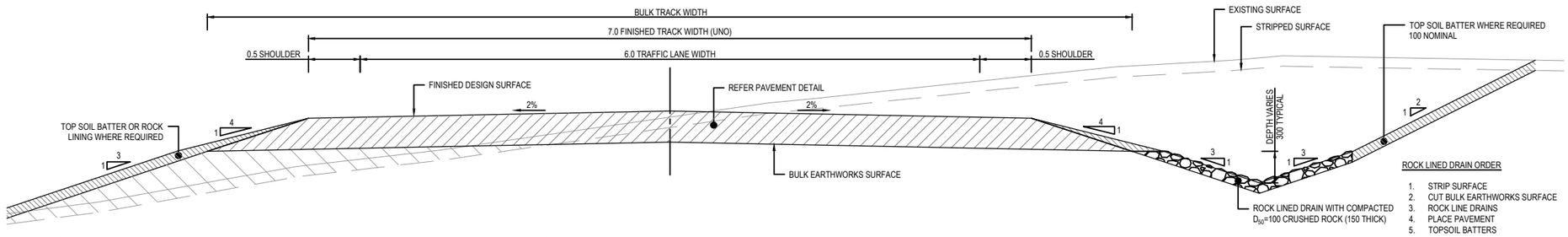
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DIVERSION BERMS TO BE INSTALLED AT THE TOP OF CUT BATTERS AS REQUIRED



TYPICAL EXTERNAL ROAD ACCESS TRACK CROSS SECTION - TOP SOIL DRAIN

NTS



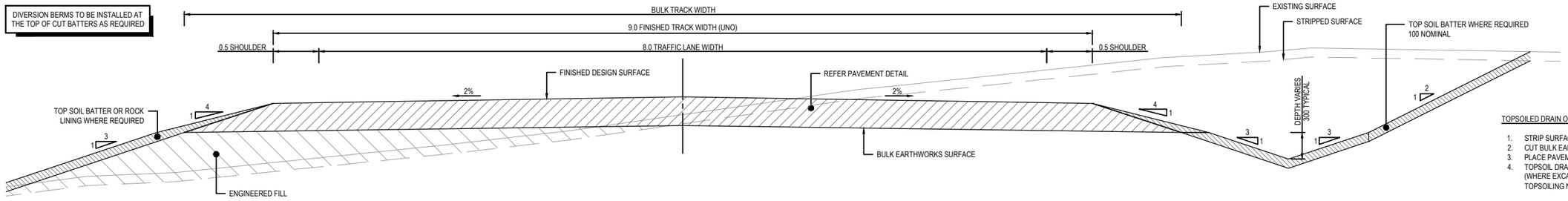
ROCK LINED DRAIN ORDER

1. STRIP SURFACE
2. CUT BULK EARTHWORKS SURFACE
3. ROCK LINE DRAINS
4. PLACE PAVEMENT
5. TOPSOIL BATTERS (WHERE EXCAVATION IN ROCK, TOPSOILING NOT REQUIRED)

TYPICAL EXTERNAL ROAD ACCESS TRACK CROSS SECTION - ROCK LINED DRAIN

NTS

DIVERSION BERMS TO BE INSTALLED AT THE TOP OF CUT BATTERS AS REQUIRED



TOPSOILED DRAIN ORDER

1. STRIP SURFACE
2. CUT BULK EARTHWORKS SURFACE
3. PLACE PAVEMENT
4. TOPSOIL DRAIN AND BATTERS (WHERE EXCAVATION IN ROCK, TOPSOILING NOT REQUIRED)

TYPICAL EXTERNAL ROAD ACCESS TRACK CROSS SECTION - RAILWAY ACCESS TRACK

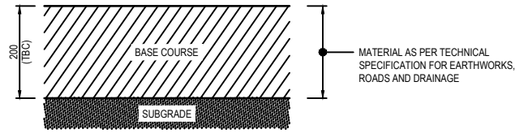
NTS

PAVEMENT NOTES

ALL PAVEMENTS ARE BASED ON A SOUND AND TRAFFICABLE SUBGRADE.
WET AND/ OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT.
THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS;

- STABILISATION
- GEOTEXTILE STRENGTHENING
- COARSE ROCKFILL STRENGTHENING
- SUBGRADE REPLACEMENT

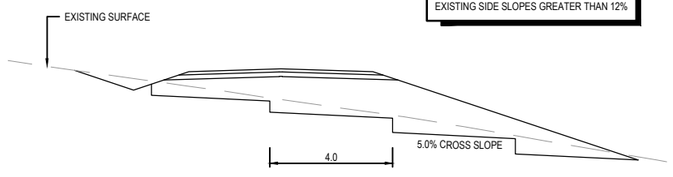
OR A COMBINATION OF ALL THESE OPTIONS.
SUBGRADE UNDRAINED SHEAR STRENGTH TO BE TBC OR BETTER.



ACCESS TRACK PAVEMENT DETAILS

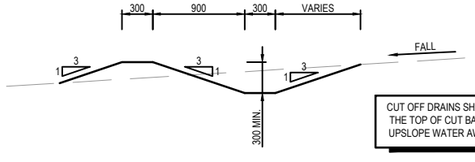
SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING

FILL EMBANKMENT KEY IN DETAIL TO BE PROVIDED ON ALL FILL BATTERS WITH EXISTING SIDE SLOPES GREATER THAN 12%



TYPICAL EMBANKMENT FILL KEY DETAIL

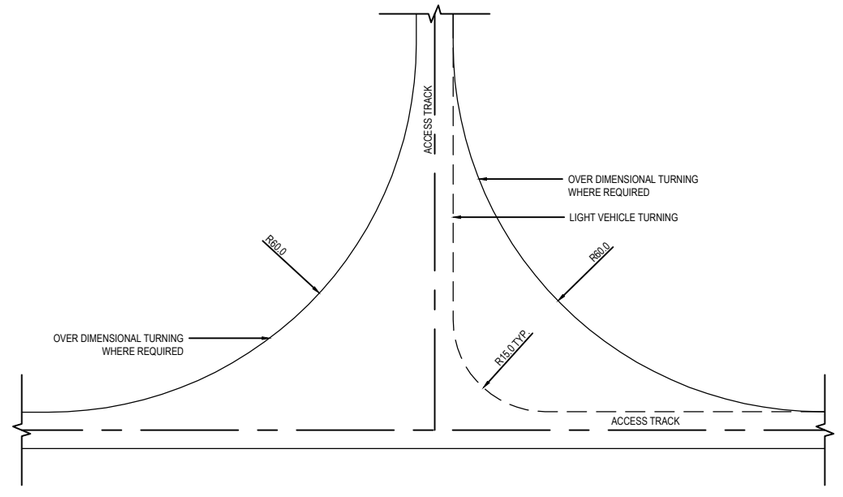
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CUT OFF DRAINS SHALL BE CONSTRUCTED AT THE TOP OF CUT BATTERS TO DIVERT CLEAN UPSLOPE WATER AWAY FROM CUT BATTERS.

TYPICAL CUT OFF DRAIN DETAIL

NTS



TYPICAL INTERSECTION DETAIL

NTS

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
A	PRELIMINARY DESIGN	J.D.	J.D.	D.K.	F.M.	09.06.2025

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COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50
PRINT IN COLOUR

PROJECT: YINDJIBARNDI ENERGY PROJECT

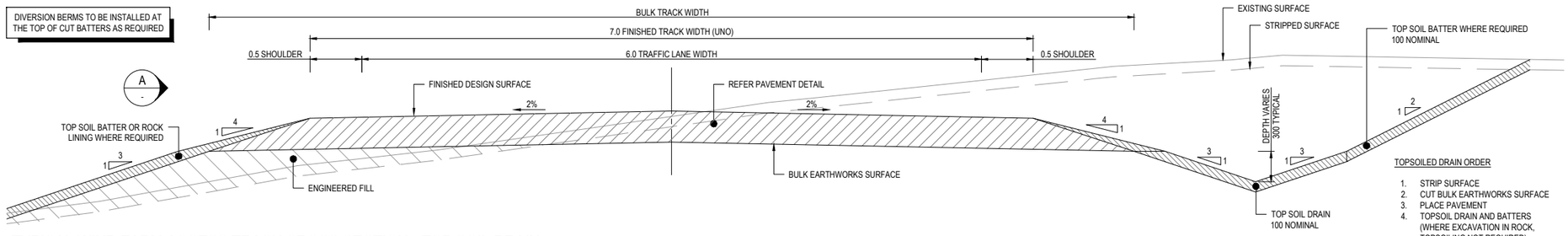
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DRAWING No. 24-007-YEC-TYP-100-1

REV A

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DIVERSION BERMS TO BE INSTALLED AT THE TOP OF CUT BATTERS AS REQUIRED

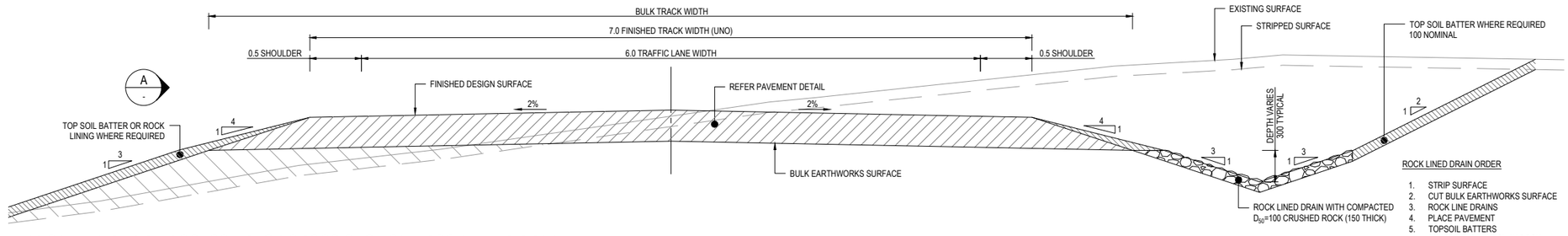


TYPICAL WIND FARM ACCESS TRACK CROSS SECTION - TOP SOIL DRAIN

NTS

TOPSOILED DRAIN ORDER

1. STRIP SURFACE
2. CUT BULK EARTHWORKS SURFACE
3. PLACE PAVEMENT
4. TOPSOIL DRAIN AND BATTERS (WHERE EXCAVATION IN ROCK, TOPSOILING NOT REQUIRED)



TYPICAL WIND FARM ACCESS TRACK CROSS SECTION - ROCK LINED DRAIN

NTS

ROCK LINED DRAIN ORDER

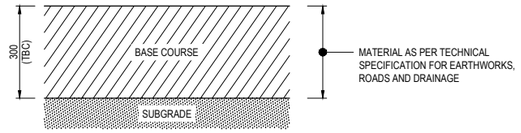
1. STRIP SURFACE
2. CUT BULK EARTHWORKS SURFACE
3. ROCK LINE DRAINS
4. PLACE PAVEMENT
5. TOPSOIL BATTERS (WHERE EXCAVATION IN ROCK, TOPSOILING NOT REQUIRED)

PAVEMENT NOTES

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WET AND/ OR SOFT AREAS FAILING THE SUBGRADE PROOF ROLL TEST MAY REQUIRE SOME FORM OF SUBGRADE IMPROVEMENT.
THE DESIGN ENGINEER SHALL BE CONSULTED TO ASSESS OPTIONS SUCH AS;

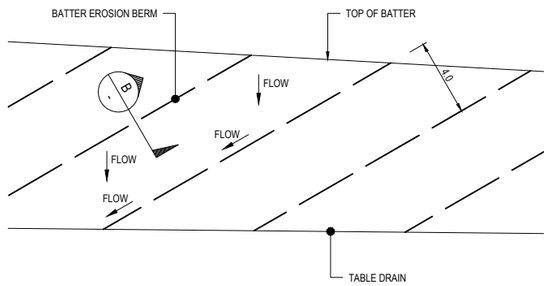
- STABILISATION
- GEOTEXTILE STRENGTHENING
- COARSE ROCKFILL STRENGTHENING
- SUBGRADE REPLACEMENT

OR A COMBINATION OF ALL THESE OPTIONS.
SUBGRADE UNDRAINED SHEAR STRENGTH TO BE TBC OR BETTER.



ACCESS TRACK PAVEMENT DETAILS

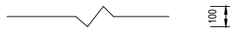
SUBJECT TO FINAL DESIGN BASED ON INSITU STRENGTH TESTING



A BATTER EROSION BERM ELEVATION

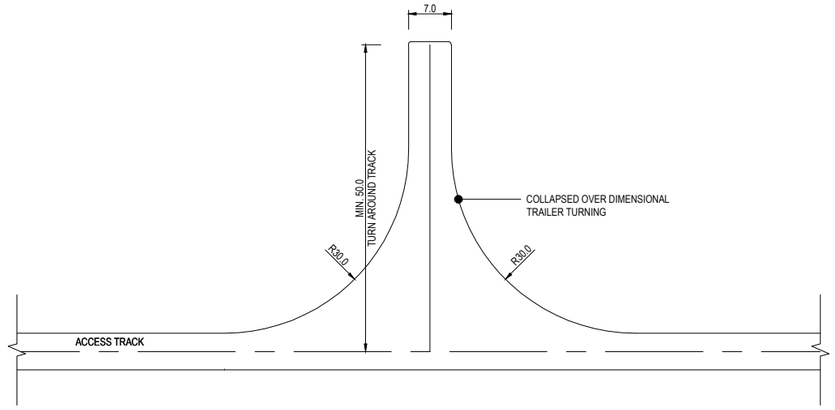
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BATTER EROSION BERMS SHALL BE PROVIDED ON ALL CUT AND FILL BATTER WHERE REQUIRED FOLLOWING ON SITE ASSESSMENT



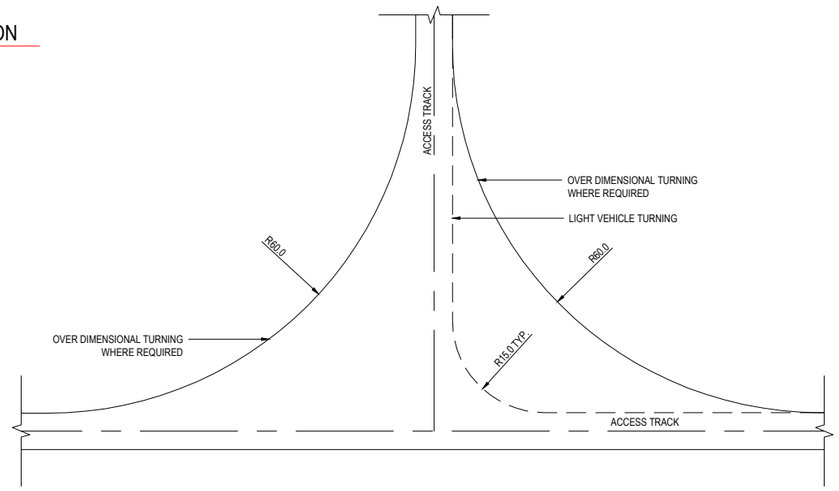
B BATTER EROSION BERM SECTION

NTS



TYPICAL TURN AROUND DETAIL

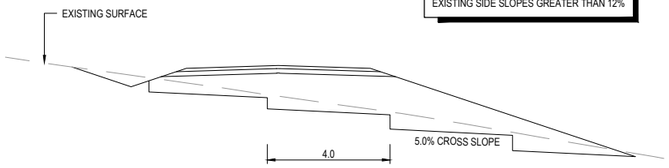
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TYPICAL INTERSECTION DETAIL

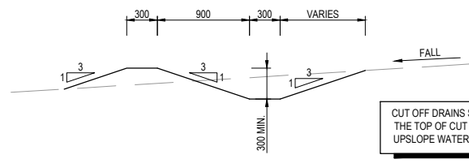
NTS

FILL EMBANKMENT KEY IN DETAIL TO BE PROVIDED ON ALL FILL BATTERS WITH EXISTING SIDE SLOPES GREATER THAN 12%



TYPICAL EMBANKMENT FILL KEY DETAIL

NTS



CUT OFF DRAINS SHALL BE CONSTRUCTED AT THE TOP OF CUT BATTERS TO DIVERT CLEAN UPSLOPE WATER AWAY FROM CUT BATTERS.

TYPICAL CUT OFF DRAIN DETAIL

NTS

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
A	PRELIMINARY DESIGN	J.L.	J.L.	B.P.	F.M.	1.10.2024

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HEIGHT DATUM: AHD
COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50
PRINT IN COLOUR

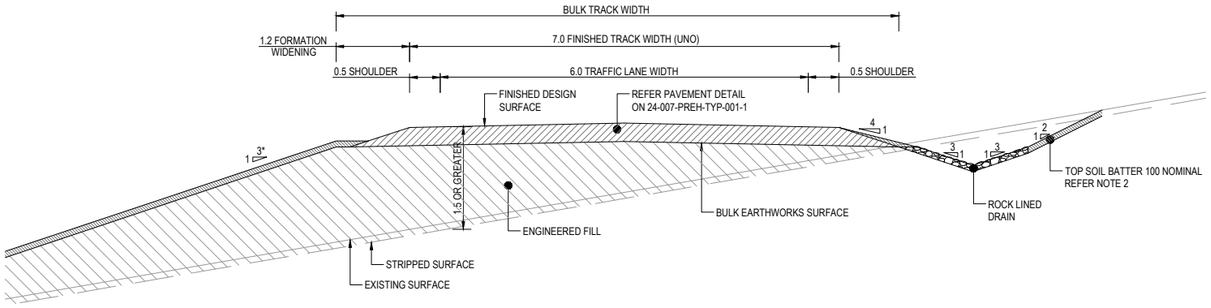
PROJECT: YINDJIBARNDI ENERGY PROJECT

TITLE: ACCESS TRACK
CROSS SECTION TYPICAL DETAILS
SHEET 1

DRAWING No. 24-007-YEC-TYP-001-1

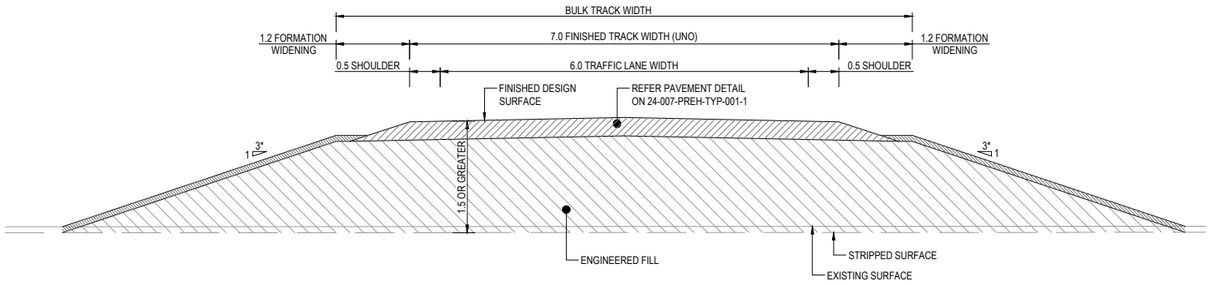
REV: A

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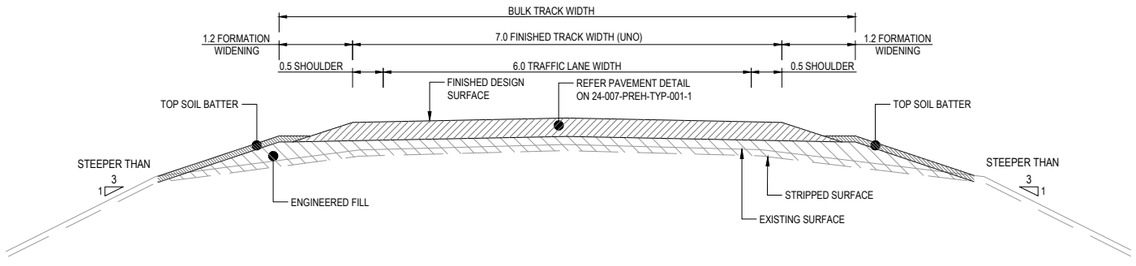
TYPICAL WIND FARM ACCESS TRACK WIDENING - CROSS SECTION TYPE 1

NTS



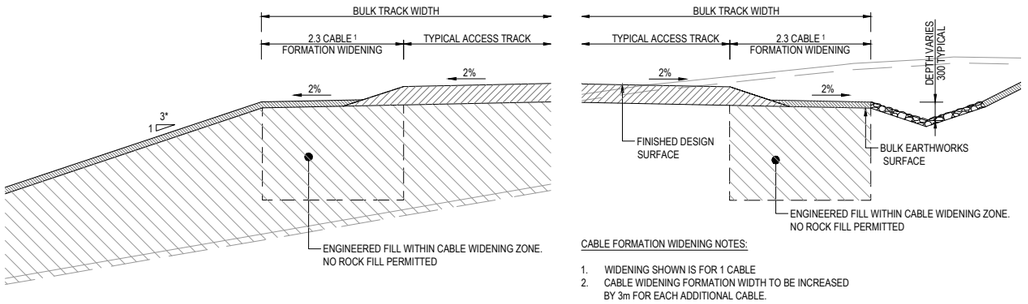
TYPICAL WIND FARM ACCESS TRACK WIDENING - CROSS SECTION TYPE 2

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TYPICAL WIND FARM ACCESS TRACK WIDENING - CROSS SECTION TYPE 3

NTS



CABLE FORMATION WIDENING NOTES:

1. WIDENING SHOWN IS FOR 1 CABLE
2. CABLE WIDENING FORMATION WIDTH TO BE INCREASED BY 3m FOR EACH ADDITIONAL CABLE.

TYPICAL WIND FARM ACCESS TRACK WIDENING - CABLE IN ACCESS TRACK FORMATION

NTS

ACCESS TRACK NOTES

1. DRAINS TO BE TOPSOILED OR ROCK LINED. FINAL FINISH TO BE DETERMINED BY CONSULTING ENGINEER FOLLOWING GEOTECHNICAL BATTER STABILITY STUDY.
2. BATTERS TO BE TOP SOILED, ROCK LINED OR LEFT UN-TREATED AS REQUIRED. FINAL FINISH TO BE DETERMINED BY CONSULTING ENGINEER FOLLOWING GEOTECHNICAL BATTER STABILITY STUDY.
3. CRANE MUST TRAVEL CENTRALLY ALONG TRACK.
4. ACCESS TRACK BEND WIDENING AS PER TABLE. PARAMETERS FOR TRACK WIDENING ARE TYPICAL ONLY AND FINAL WIDENING IS AT THE DISCRETION OF THE DESIGNER AND ON SITE CONSULTING ENGINEERS.

* FINAL BATTER SLOPE TO BE DETERMINED BY CONSULTING ENGINEER FOLLOWING GEOTECHNICAL BATTER STABILITY STUDY.

BEND WIDENING TABLE

RADIUS	BEND ANGLE	GRADIENT	MIN. TRACK WIDENING
100m - 130m	0° - 45°	<12%	0m
		>12%	0m
	45° - 90°	<12%	1.0m
		>12%	2.0m
	>90°	<12%	2.0m
		>12%	3.0m
130m - 160m	0° - 45°	<12%	0m
		>12%	0m
	45° - 90°	<12%	0m
		>12%	1m
	>90°	<12%	1m
		>12%	2.0m
>160m	ANY	ANY	0m

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
A	PRELIMINARY DESIGN	J.L.	J.L.	B.P.	F.M.	1.10.2024

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STATUS: FOR REVIEW
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SIZE: A3 | HEIGHT DATUM: AHD

COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50

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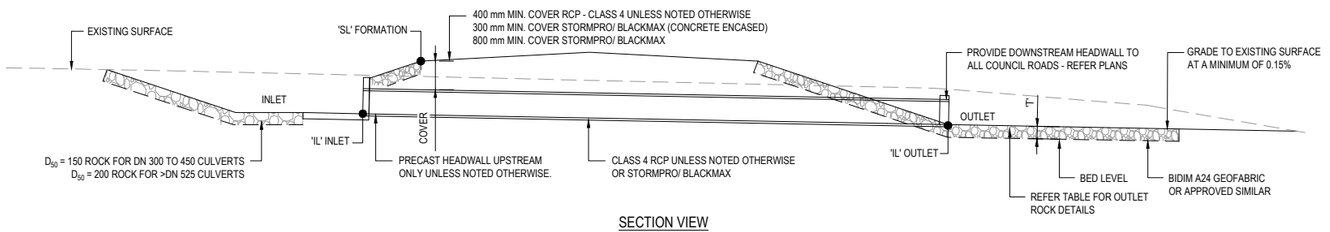
PROJECT: YINDJIBARNDI ENERGY PROJECT

TITLE: ACCESS TRACK
CROSS SECTION TYPICAL DETAILS
SHEET 2

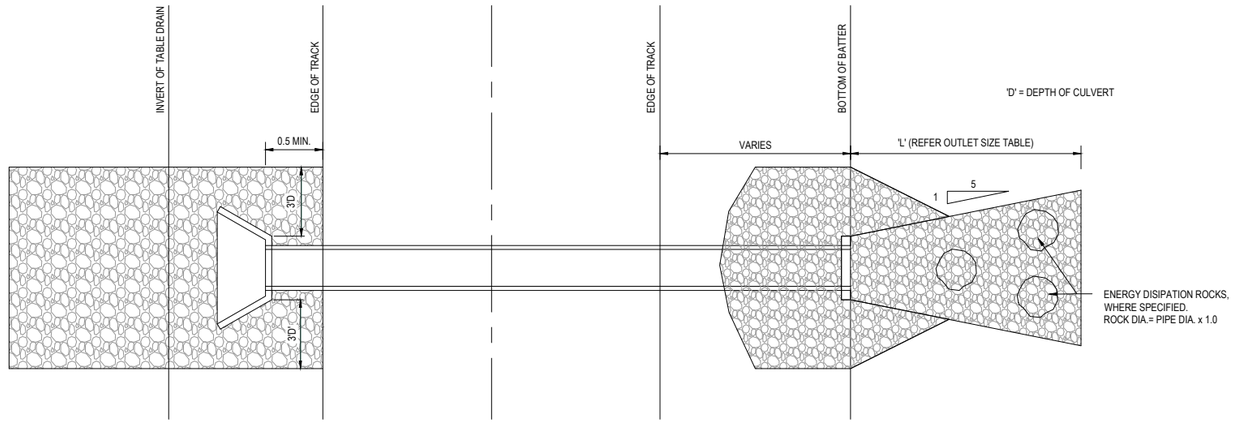
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SECTION VIEW



PLAN VIEW

STORMWATER CULVERT DETAIL

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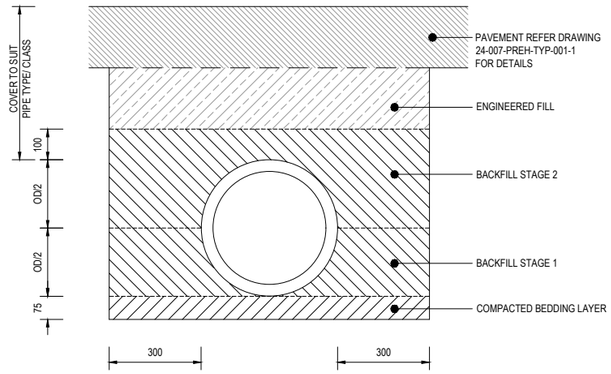
SINGLE PIPE CULVERT OUTLET ROCK SIZE[4,5,6]						
PIPE GRADE	0.5% - 1.0%		>1.0% - 2.0%		>2.0% - 4.0%	
PIPE SIZE (D)	D_{50} (mm)	L^1 (m)	D_{50} (mm)	L^1 (m)	D_{50} (mm)	L^1 (m)
DN 300	100	1.2	100	1.2	200	1.8
DN 375	150	1.5	200	2.3	200	2.3
DN 450	200	2.7	200	2.7	200	2.7
DN 525	200	3.2	200	3.2	200	3.2
DN 600	200	3.6	200	3.6	300	4.8
DN 750	200	4.5	300	6	300	6
DN 900	300	7.2	400[2]	7.2	400[2]	7.2
DN 1200	500[2]	12	500[2]	12	RENO MATTRESS[3]	12
DN 1500	500[2]	15	RENO MATTRESS[3]	15	RENO MATTRESS[3]	15

MULTI PIPE CULVERT OUTLET ROCK SIZE[4,5,6]						
PIPE GRADE	0.5% - 1.0%		>1.0% - 2.0%		>2.0% - 4.0%	
PIPE SIZE (D)	D_{50} (mm)	L^1 (m)	D_{50} (mm)	L^1 (m)	D_{50} (mm)	L^1 (m)
DN 300	200	1.8	200	1.8	200	1.8
DN 375	200	2.3	200	2.3	300	3
DN 450	200	2.7	200	2.7	300	3.6
DN 525	200	3.2	300	4.2	400[2]	4.2
DN 600	200	3.6	300	4.8	400[2]	4.8
DN 750	300	6	400[2]	6	500[2]	7.5
DN 900	400[2]	7.2	500[2]	9	600[2]	9
DN 1200	500[2]	12	600[2]	12	RENO MATTRESS[3]	12
DN 1500	600[2]	15	RENO MATTRESS[3]	15	RENO MATTRESS[3]	15

OUTLET ROCK THICKNESS	
D_{50} (mm)	THICKNESS (mm)[7]
100	200
150	250
200	350
300	500
400	650
500	800
600	1000

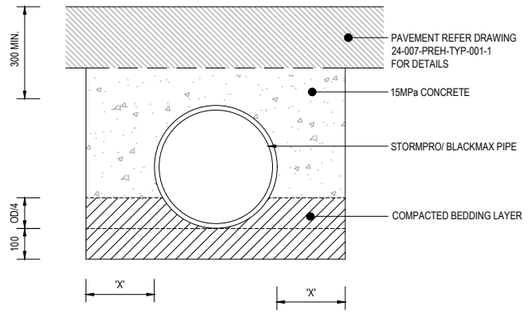
CULVERT OUTLET ROCK SIZE NOTES

1. REFER TO STORMWATER CULVERT DETAIL FOR PLAN VIEW SETOUT.
2. ALTERNATIVE RENO MATTRESS MAY BE USED AT THE DISCRETION OF THE DESIGN ENGINEER.
3. RENO MATTRESS DESIGN IS BASED ON A 300 THICK MATTRESS FILLED WITH ROCKS SIZED BETWEEN 100 - 150. ALTERNATIVE DIMENSIONS OF RENO MATTRESS THICKNESS OR ROCK SIZE MAY BE USED AT THE DISCRETION OF THE DESIGN ENGINEER.
4. WHERE THE CULVERT LENGTH IS GREATER THAN 25 m. THE D_{50} ROCK SIZE IS TO BE INCREASED BY 100. THE LENGTH OF THE OUTLET ROCK PAD SIZE MAY NEED TO INCREASE. REFER TABLE FOR OUTLET ROCK LENGTH.
5. WHERE THE CULVERT LENGTH IS GREATER THAN 50 m THE ROCK SIZE TABLES ARE NOT TO BE USED AND SPECIALIST DESIGN ADVICE IS REQUIRED. THE DESIGN ENGINEER IS TO BE CONSULTED IF DESIGN DRAWINGS DO NOT SPECIFY ROCK OUTLET PAD PARAMETERS.
6. WHERE THE CULVERT GRADE IS >4% SPECIALIST DESIGN ADVICE IS REQUIRED FROM THE DESIGN ENGINEER.
7. THE THICKNESS OF THE ROCK PAD CAN BE REDUCED AT THE DISCRETION OF THE DESIGN ENGINEER IF SUITABLE ROCK GRADINGS CAN BE ACHIEVED AND VERIFIED. REFER TO THE DESIGN ENGINEER FOR ADVICE.



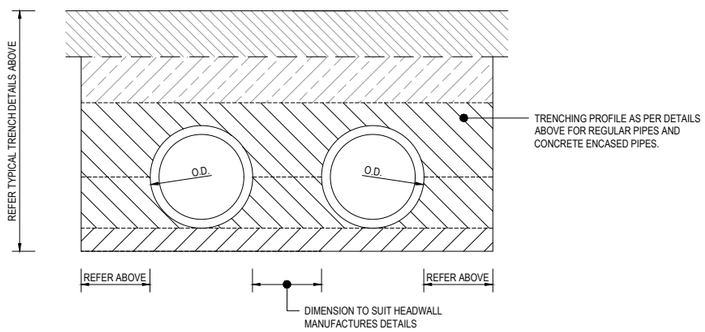
CULVERT TRENCH DETAIL

NTS



CULVERT (CONCRETE ENCASED) TRENCH DETAIL

NTS



MULTI BARREL TRENCH DETAIL

NTS

BEDDING LEGEND

- EVENLY GRADED BED, 20 mm NOMINAL SIZE CLASS 2 FCR OR OTHER APPROVED BEDDING
- CLASS 3 FCR, 30 mm NOMINAL SIZE OR OTHER APPROVED MATERIAL

DRAINAGE NOTES

1. THE USE OF FIBRE REINFORCED CONCRETE CULVERTS IS NOT APPROVED.
2. STORMPRO/ BLACKMAX WITH AT MINIMUM 800 COVER REFER CULVERT TRENCH DETAILS. STORMPRO/ BLACKMAX WITH LESS THAN 800 COVER REFER CONCRETE ENCASED TRENCH DETAILS.
3. RCP-CLASS 4 PIPES WITH LESS THAN 400 COVER MUST BE CONCRETE ENCASED.
4. MULTI BARREL CULVERTS TO BE TREATED SIMILARLY WITH MINIMUM CLEARANCE AS PER TABLE BELOW.

GENERAL NOTES

1. ALL DIMENSIONS WITH DECIMALS ARE IN METRES, ALL THOSE WITHOUT ARE IN MILLIMETRES
2. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MDD COMPACTED AT ± 3% OMC. PAVEMENT LAYERS SHALL BE AS PER TYPICAL ACCESS TRACK DRAWING 24-007-PREH-TYP-001-1.

TRENCH DIMENSIONS	
PIPE SIZE	'X' MINIMUM (mm)
DN 300	175
DN 375	175
DN 450	200
+ DN 525	300

MULTI BARREL SPACING	
PIPE SIZE	MINIMUM SPACING (mm)
DN 300-600	300
DN 750+	600

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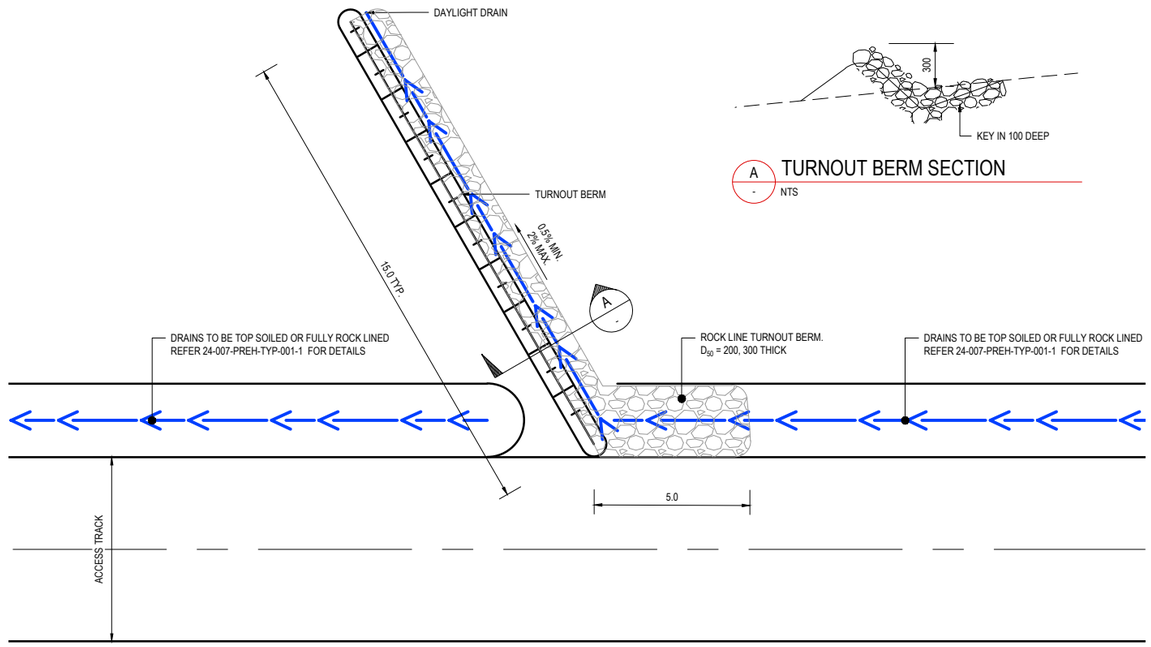
STATUS: FOR REVIEW
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COORDINATE REFERENCE SYSTEM: GDA2020 MGA Z50
PRINT IN COLOUR

PROJECT: YINDJIBARNDI ENERGY PROJECT
TITLE: STORMWATER TYPICAL DETAILS SHEET 1
DRAWING No.: 24-007-YEC-TYP-004-1
REV: A

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GENERAL NOTES

1. TURNOUT BERMS TO BE INSTALLED WHERE REQUIRED. LENGTHS MAY VARY TO SUIT TERRAIN.
2. BATTER CHUTE TO BE INSTALLED WHERE REQUIRED. SIZES MAY VARY TO SUIT PROJECT NEEDS.

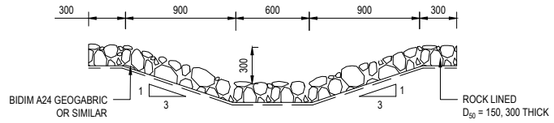


TURNOUT BERM TYPICAL DETAIL

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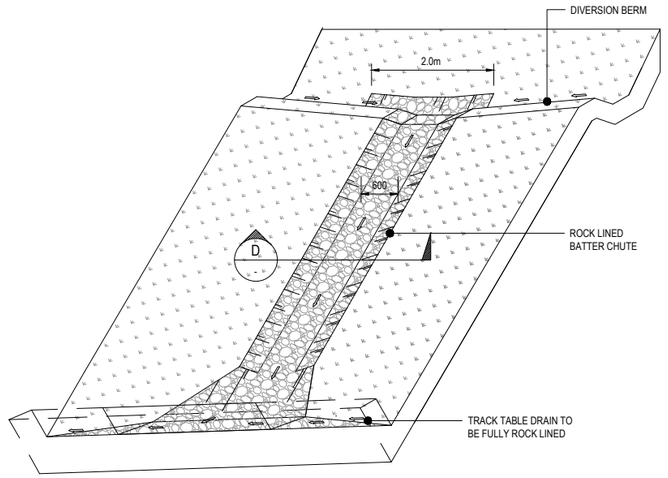
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TURNOUT BERM SECTION



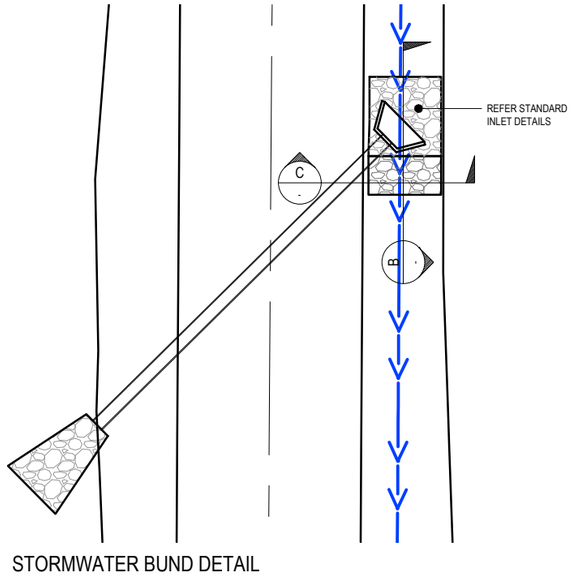
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BATTER CHUTE SECTION



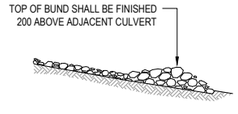
BATTER CHUTE DETAIL

NTS



STORMWATER BUND DETAIL

NTS



B - NTS

STORMWATER BUND SECTION



C - NTS

STORMWATER BUND SECTION

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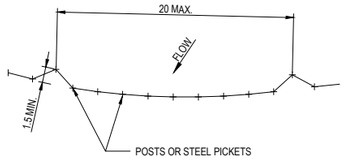
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TITLE: STORMWATER TYPICAL DETAILS
SHEET 2

DRAWING No.: 24-007-YEC-TYP-004-2

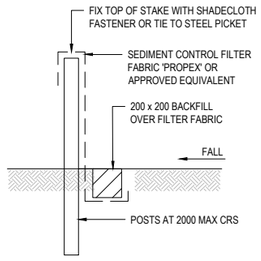
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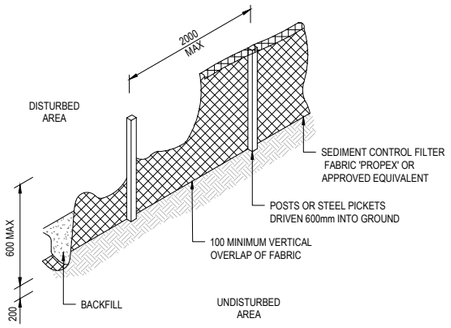


SILT FENCE PLAN

ENSURE POST HOLES AND TRENCH ARE PROPERLY BACKFILLED AND COMPACTED



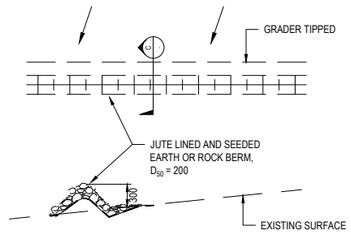
SILT FENCE SECTION



SILT FENCE PERSPECTIVE

SILT FENCE

OR

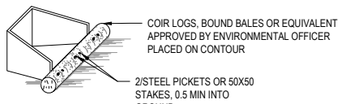


SECTION 'C'

CORNER TIP SILT TRAP

SILT ENTRAPMENT OPTIONS

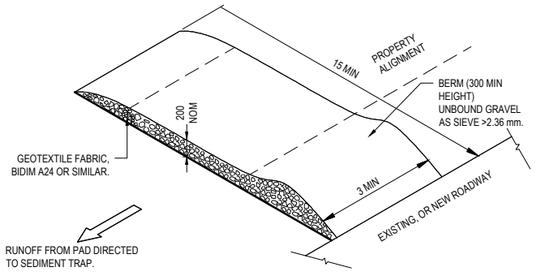
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ANCHORING DETAIL

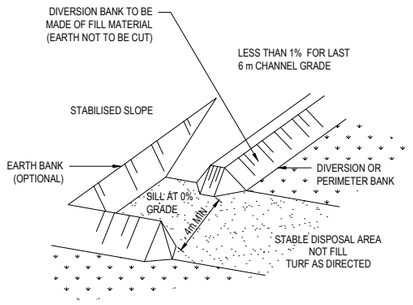


BEDDING DETAIL



INLET CONTROL DETAIL

NTS



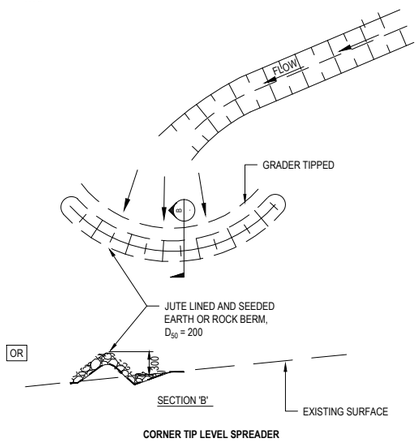
BANK LEVEL SPREADER

LEVEL SPREADER OPTIONS

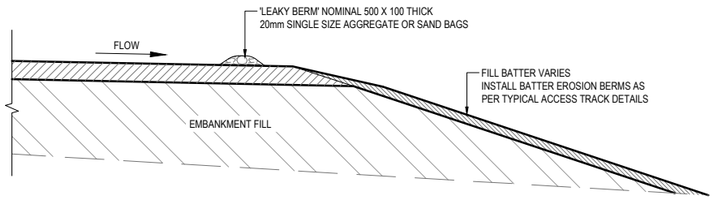
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SHAKEDOWN DETAIL

NTS



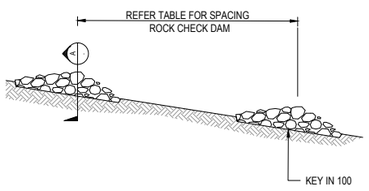
CORNER TIP LEVEL SPREADER

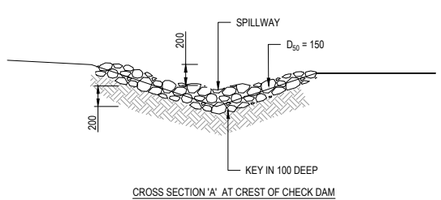


'LEAKY BERM' DETAIL

NTS

TABLE DRAINS & CUTOFF DRAINS - SCOUR PROTECTION TREATMENTS				
GRADE < 2.5%	2.5% < GRADE < 5%	5% < GRADE < 7%	7% < GRADE < 10%	GRADE > 10%
TOP SOILED & GRASSED	TOP SOILED & GRASSED WITH ROCK CHECK DAMS AT 20 m CENTRES	TOP SOILED & GRASSED WITH ROCK CHECK DAMS AT 10 m CENTRES	TOP SOILED & GRASSED WITH ROCK CHECK DAMS AT 5 m CENTRES	ROCK LINED WITH COMPACTED D_{50} = 100 CRUSHED ROCK (150 THICK)





CROSS SECTION 'A' AT CREST OF CHECK DAM

ROCK CHECK DAM DETAIL

NTS

OPERATIONS & MAINTENANCE NOTES

ALL ESC MEASURES MUST BE INSPECTED:
- AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE) OR WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE);
- WITHIN 24 HOURS OF EXPECTED RAIN; AND
- WITHIN 18 HOURS OF A RAINFALL EVENT (ie AN EVENT OF SUFFICIENT INTENSITY AND DURATION TO MOBILISE SEDIMENT ON SITE).

ESC MEASURE	MAINTENANCE TRIGGER	TIMEFRAME FOR COMPLETION OF MAINTENANCE
OTHER ESC MEASURES	THE CAPACITY OF ESC MEASURES FALLS BELOW 70%.	WITHIN 7 DAYS OF THE INSPECTION.

PRIOR TO LONG PERIOD OF SHUT DOWN ALL ESC MEASURES TO BE INSPECTED AND CLEANED.

EROSION & SEDIMENT CONTROL NOTES

1. CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
   - STRIPPING OF TOPSOIL AND GRASS
   - BULK EARTHWORKS TO THE SITE .
   - SERVICE INSTALLATION
2. PRIOR TO CLEARING, AREAS OF PROTECTED VEGETATION AND SIGNIFICANT AREAS OF RETAINED VEGETATION SHALL BE CLEARLY IDENTIFIED (WITH HIGH VISIBILITY TAPE OR SIMILAR) FOR THE PURPOSES OF MINIMISING THE RISK OF UNNECESSARY CLEARING.
3. ESC FOR DRAINS AND DISTURBED AREAS SHOULD BE PROVIDED IN ORDER OF PREFERENCE FROM SITE ENGINEER
   - SCARIFY AND GRASS SEED
   - SCARIFY, JUTE MAT AND GRASS SEED
   - SHOT ROCK AROUND CULVERT INLETS AND OUTLETS
   - SHOT ROCK CHECK DAMS IN TABLE DRAINS WHERE REQUIRED
4. ENSURE NO RUN OFF OR SEDIMENT DISCHARGES TO ROAD, LAND, DRAINAGE LINES, WATER BODIES OR ADJOINING PROPERTIES.
5. CONTRACTOR TO NOMINATE SITE REPRESENTATIVE TO BE RESPONSIBLE FOR THE IMPLEMENTATION AND UP KEEP OF THE EROSION AND SEDIMENT MANAGEMENT CONTROLS.
6. ALL EROSION AND SEDIMENT CONTROLS ARE TO REMAIN UNTIL WRITTEN NOTICE FROM ENVIRONMENTAL ADVISOR/S.
7. BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED DURING CONSTRUCTION.
8. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 30%.
9. IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DEFICIENT OR FAILED IN SERVICE, DUE TO UNFORESEEN CIRCUMSTANCES, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS/ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH ADDITIONS OR AMENDMENTS ARE TO BE APPROVED BY ENVIRONMENTAL ADVISOR/S.
10. THE INSTALLATION, REMOVAL, RELOCATION OR MODIFICATION TO EROSION AND SEDIMENT CONTROL DEVICES MAY BE MADE BY THE ENVIRONMENTAL ADVISOR/S, IF DEEMED NECESSARY AND RELEVANT.
11. ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS AND EMBANKMENTS SHALL BE MACHINE-COMPACTED AND STABILISED WITH APPROPRIATE COVER APPROVED BY ENVIRONMENTAL ADVISOR/S WITHIN 10 DAYS OF DISTURBANCE .
12. ALL EARTHWORKS ENVIRONMENTAL CONTROLS SHALL BE GENERALLY IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' BY LANDCOM.
13. SILT FENCE OR COIR LOGS MAY BE USED AS AN ALTERNATE TO HAY BALES AT DRAINAGE INLETS.
14. SHAKEDOWNS TO BE CONSTRUCTED AT EXITS TO COUNCIL ROADS OR WHERE DEEMED NECESSARY BY ENVIRONMENTAL ADVISOR.

SOIL AND STOCKPILE MANAGEMENT

1. STOCKPILES SHALL BE APPROPRIATELY PROTECTED FROM THE WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
2. STOCKPILES SHALL BE LOCATED UPSTREAM OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM. IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR LONGER THAN 28 DAYS THEY SHALL BE PROTECTED BY PROVIDING AN APPROPRIATE COVER APPROVED BY ENVIRONMENTAL ADVISOR/S WITHIN 10 DAYS.

TABLE DRAINS, CATCH DRAINS AND DIVERSION DRAINS SHALL BE STABILISED WITH APPROPRIATE COVER APPROVED BY ENVIRONMENTAL ADVISOR/S AND SUPPLEMENTED WITH ROCK WEIRS AS DETAILED.

No	DESCRIPTION	DES	DRN	CHK	APP	DATE
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