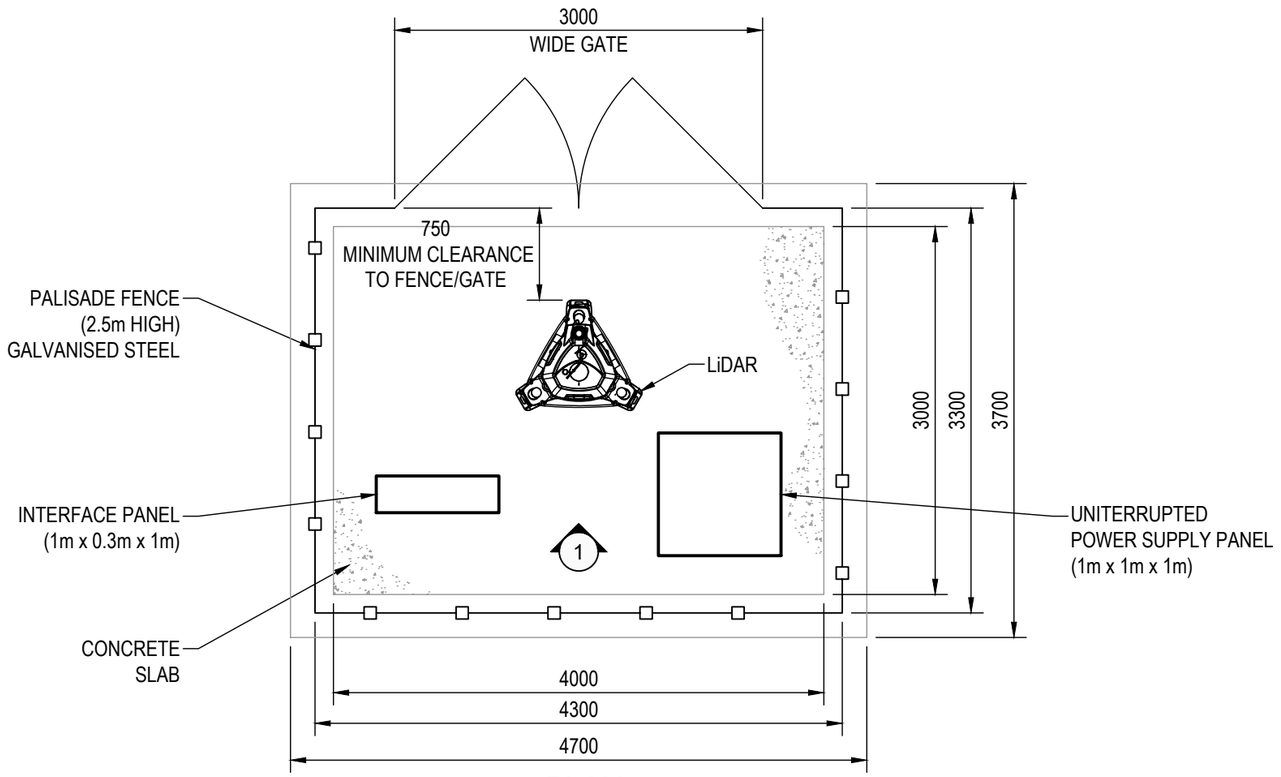
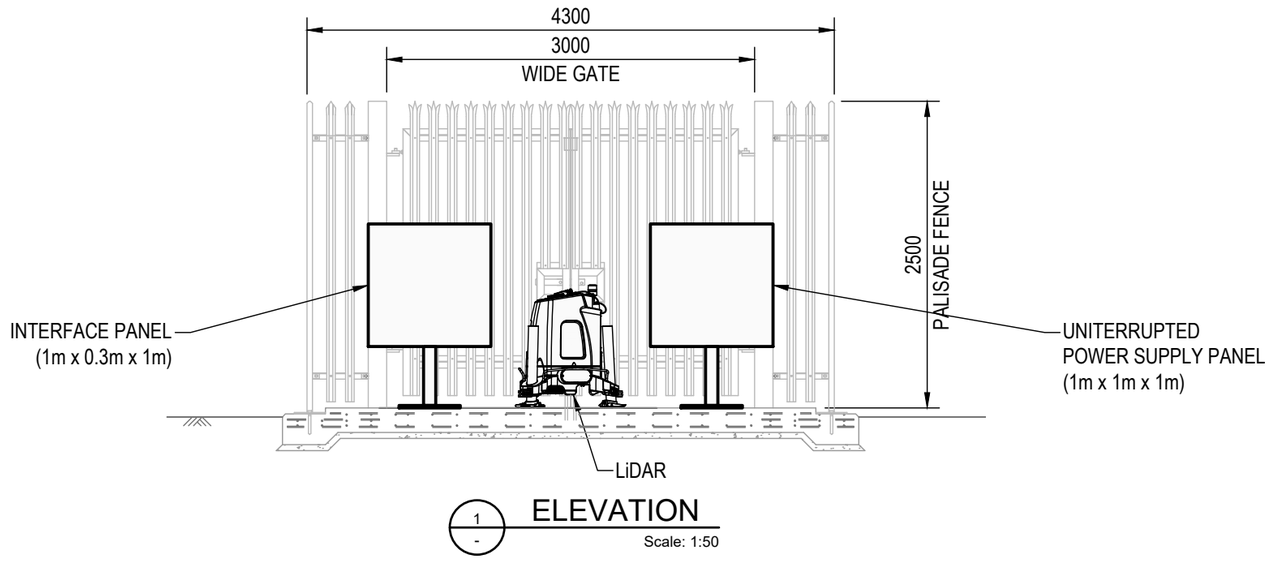


PLAN

Scale: 1:50



1 / - ELEVATION

Scale: 1:50

sse Renewables

Notes

1. All dimensions are in millimetres (mm) unless stated otherwise.

Figure 2.11
Permanent LiDAR

Strathy South Wind Farm
EIAR 2020

sse Renewables

Key

- Site Boundary
- Preferred Indicative Cable Route through Strathy North
- Alternative Indicative Cable Route through Strathy North
- Common Indicative Cable Route
- Substation
- Substation Temporary Laydown Area

Scale 1:44,000 @ A3

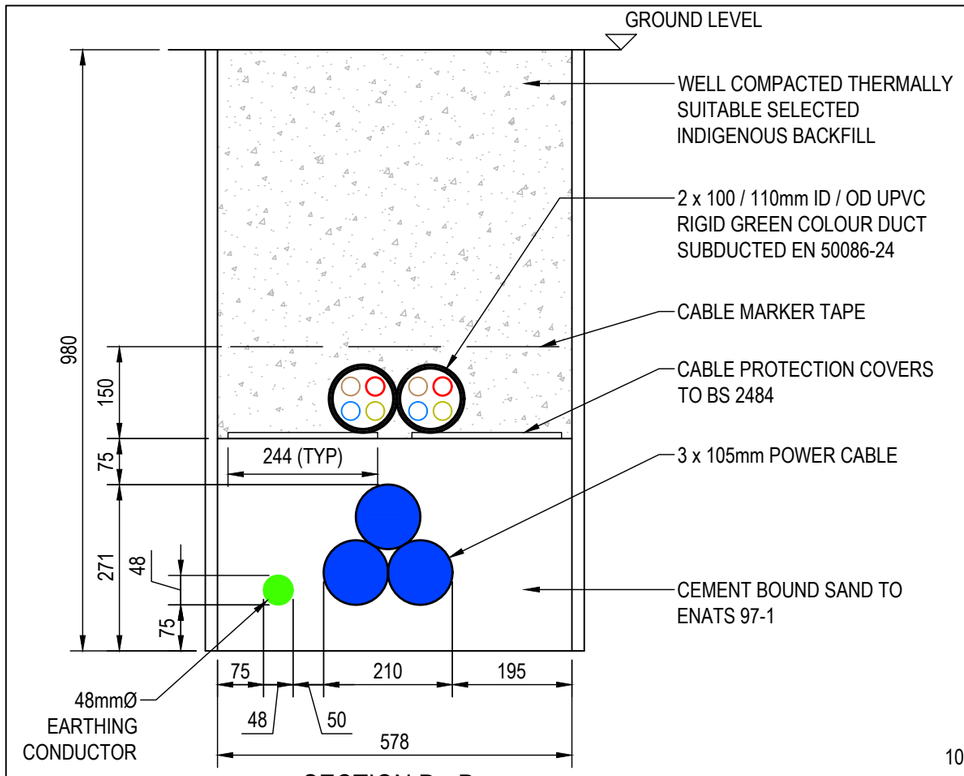
0 1 2 Km

N

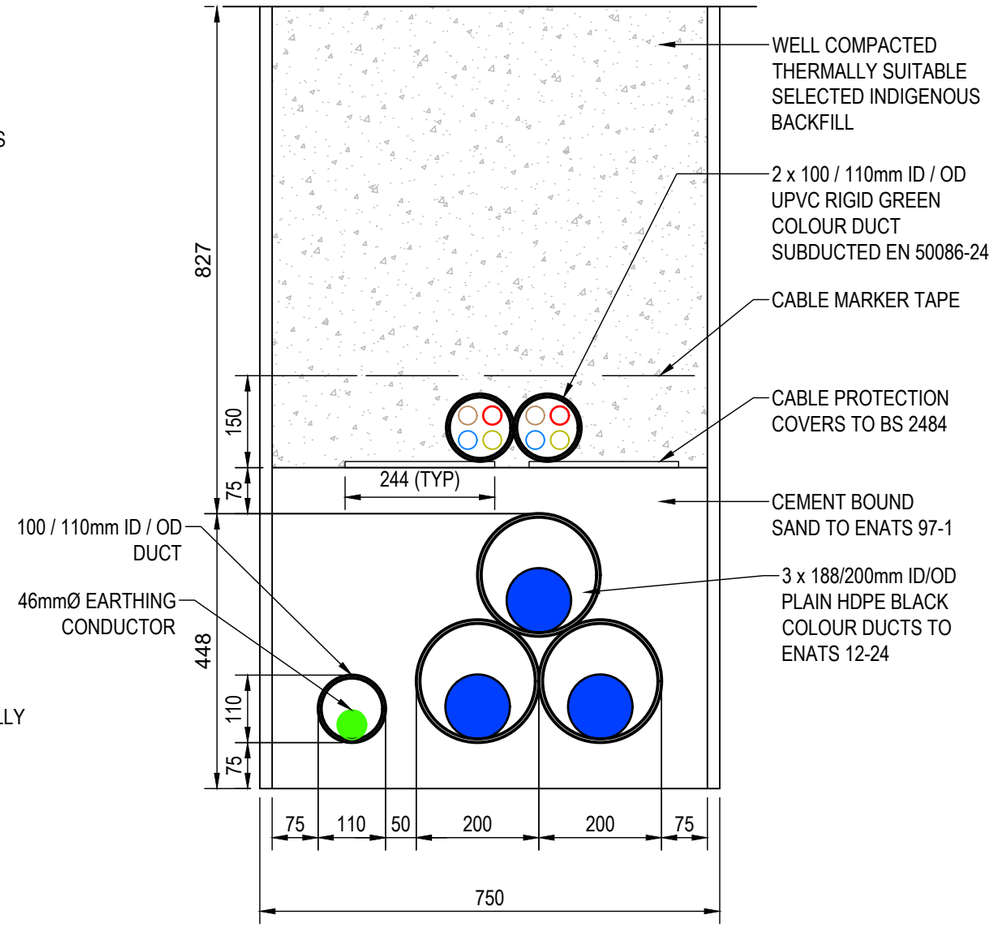
Figure 2.12

Underground Cable Route

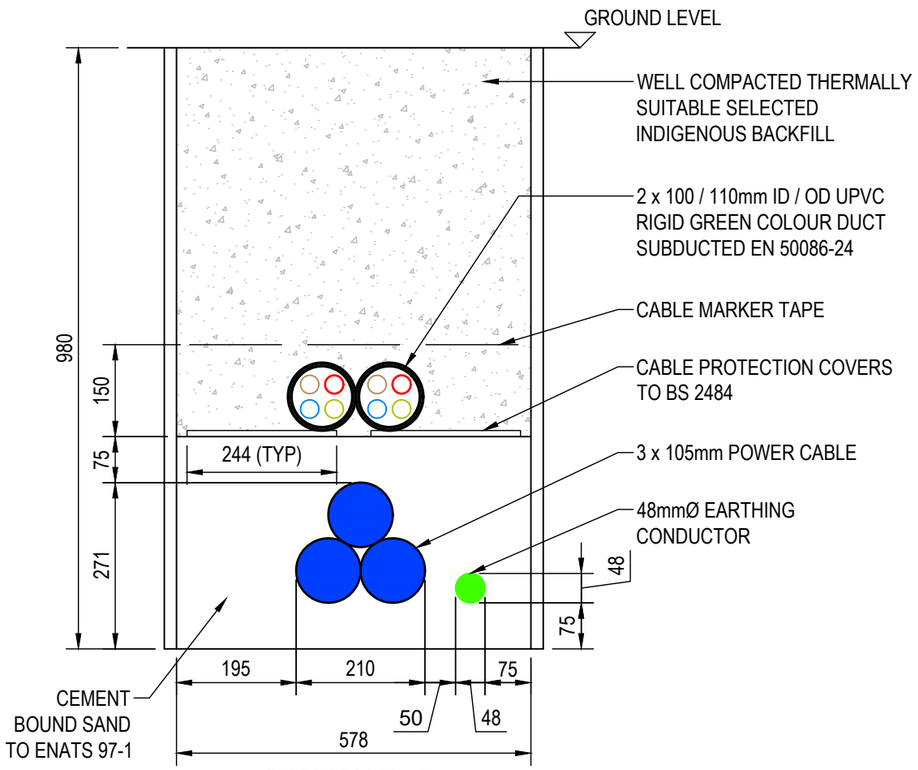
Strathy South Wind Farm
EIAR 2020



SECTION D - D
1 x 132kV CABLE CIRCUIT TRENCH



SECTION K - K
1 x 132kV CABLE CIRCUIT TRENCH



SECTION E - E
1 x 132kV CABLE CIRCUIT TRENCH

sse Renewables

Notes

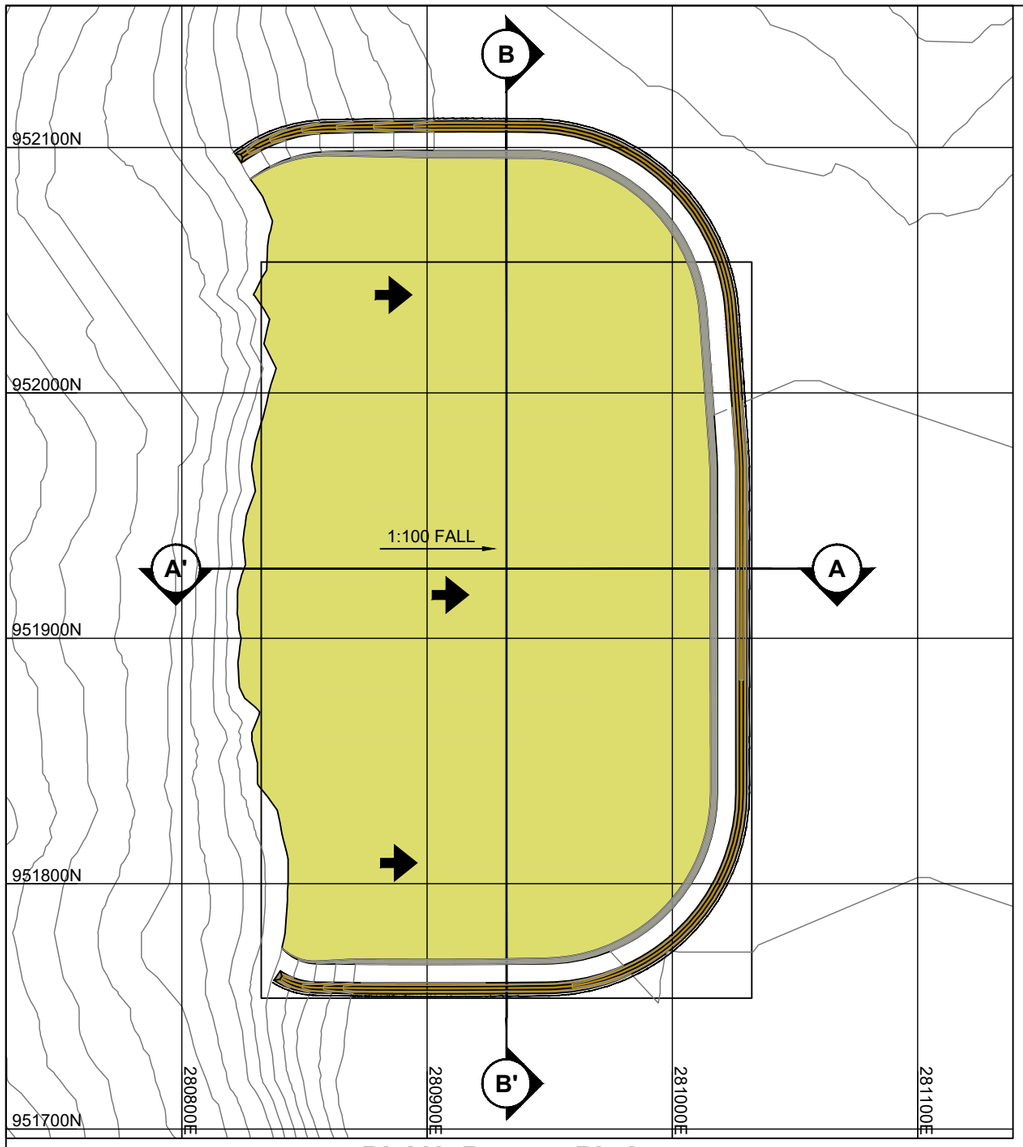
1. All dimensions are in millimetres.

Scale 1:10 @ A3

mm
0 100 200 300

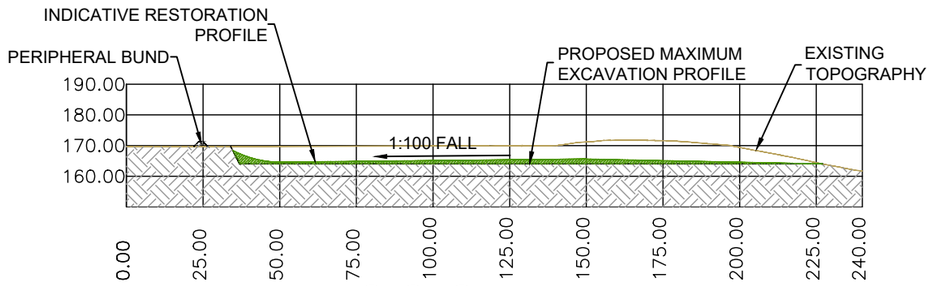
Figure 2.13
Typical Cable Trench Section

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit A

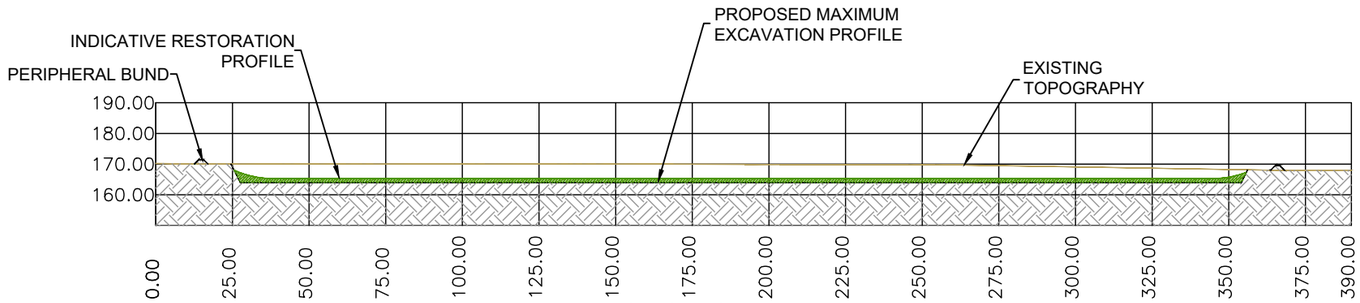
SCALE 1:2500



SECTION A-A'

SCALE: 1:2000

TOTAL EXCAVATION VOLUME:	296,631m^3
OVERBURDEN VOLUME:	46,019m^3
NET STONE VOLUME:	250,612m^3
PERIPHERAL BUND FILL:	2,979m^3
NET STONE TONNAGE:	501,224T
EXCAVATION AREA:	58,999m^2
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 6.25m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 280932 N: 951928



SECTION B-B'

SCALE: 1:2000

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.78m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:2500 @ A3

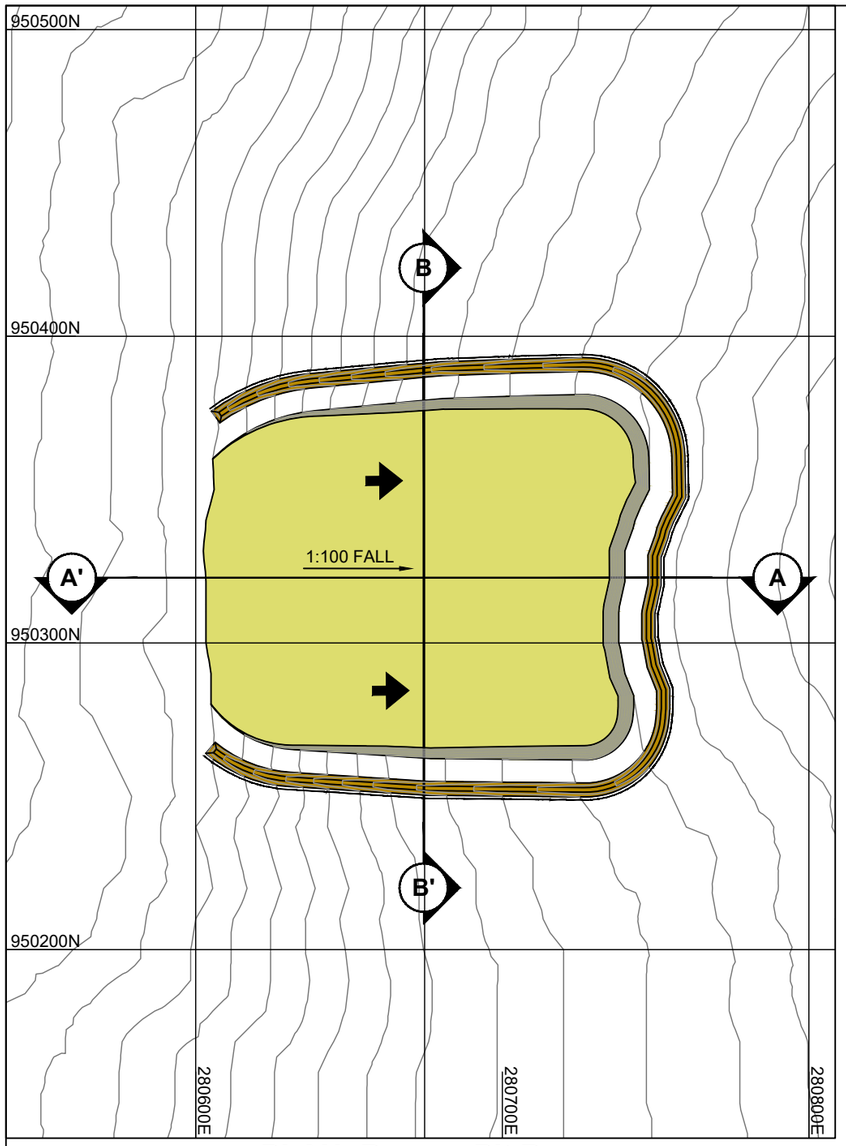
0 50 100 m

Scale 1:2000 @ A3

0 20 40 60 80 m

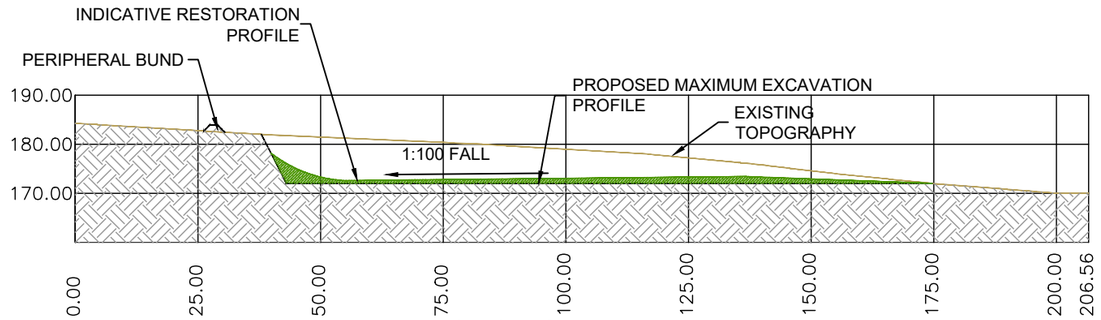
Figure 2.14a
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit B

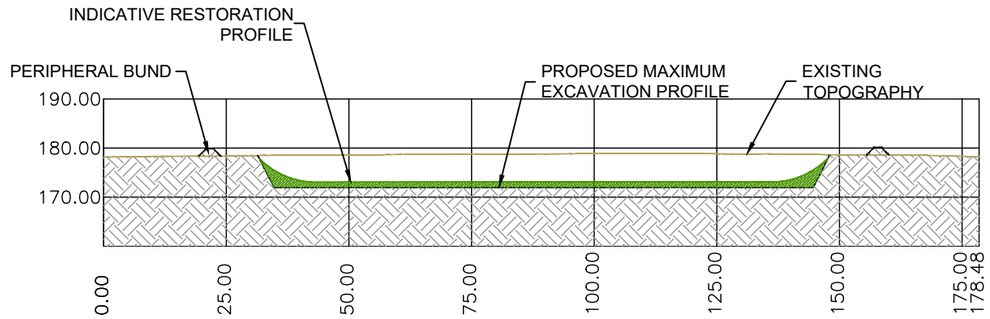
SCALE 1:2000



SECTION A-A'

SCALE: 1:1250

TOTAL EXCAVATION VOLUME:	89,929m^3
OVERBURDEN VOLUME:	4,496m^3
NET STONE VOLUME:	85,433m^3
PERIPHERAL BUND FILL:	1,873m^3
NET STONE TONNAGE:	170,866T
EXCAVATION AREA:	15,505m^2
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 10m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 280675 N: 950321



SECTION B-B'

SCALE: 1:1250

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.29m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:1250 @ A3

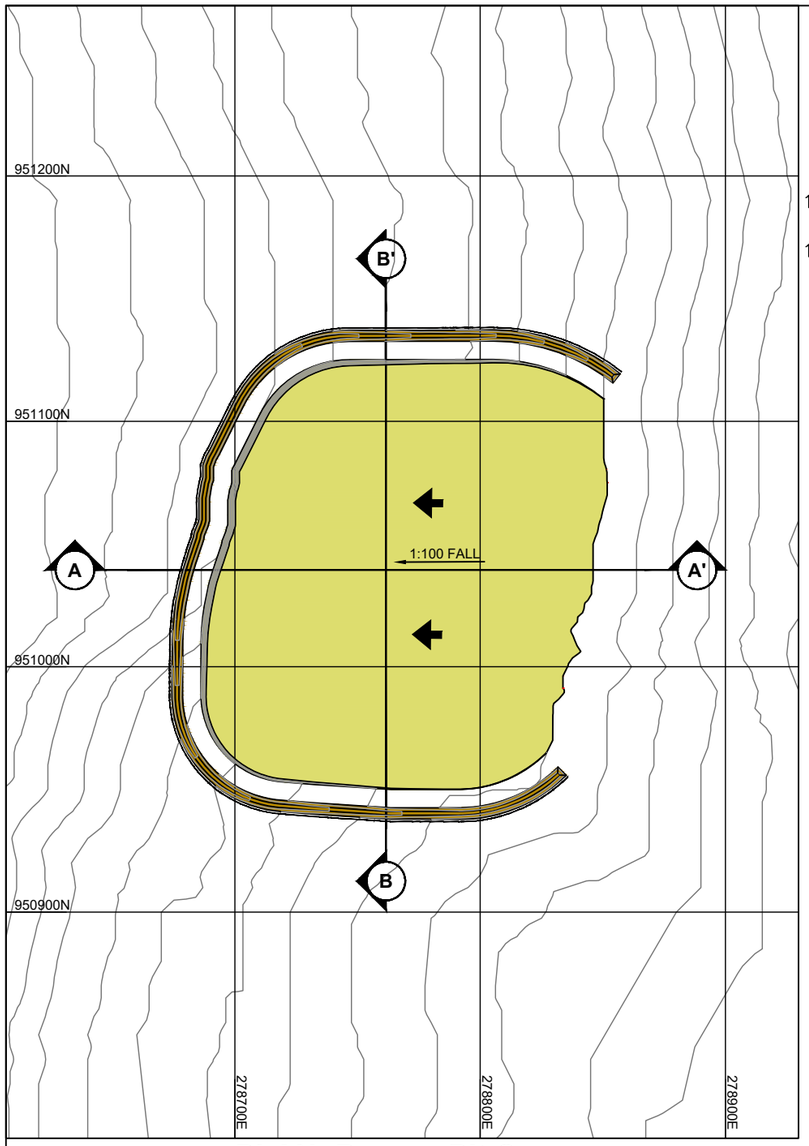
0 25 50 m

Scale 1:2000 @ A3

0 20 40 60 80 m

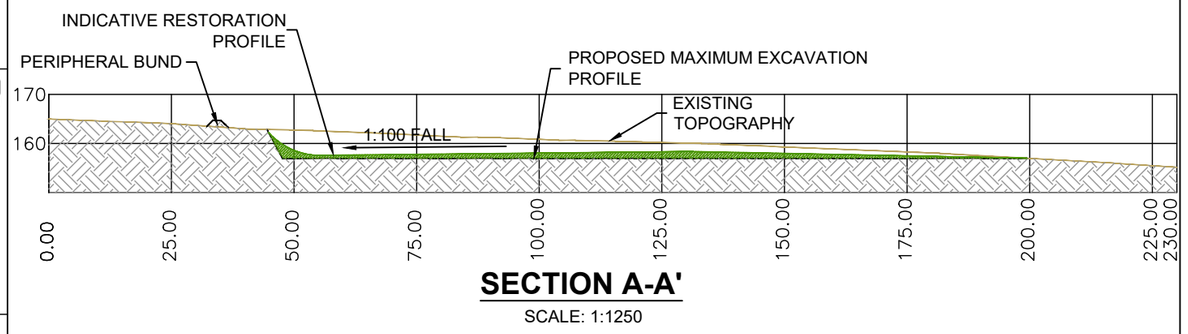
Figure 2.14b
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit C

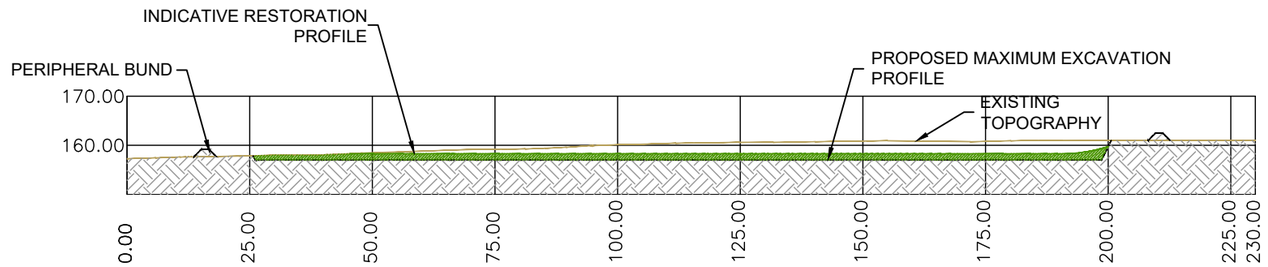
SCALE 1:2500



SECTION A-A'

SCALE: 1:1250

TOTAL EXCAVATION VOLUME:	66,126m^3
OVERBURDEN VOLUME:	9,441m^3
NET STONE VOLUME:	56,685m^3
PERIPHERAL BUND FILL:	2,109m^3
NET STONE TONNAGE:	113,370T
EXCAVATION AREA:	24,846m^2
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 6m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 278762 N: 951039



SECTION B-B'

SCALE: 1:1250

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.38m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:1250 @ A3

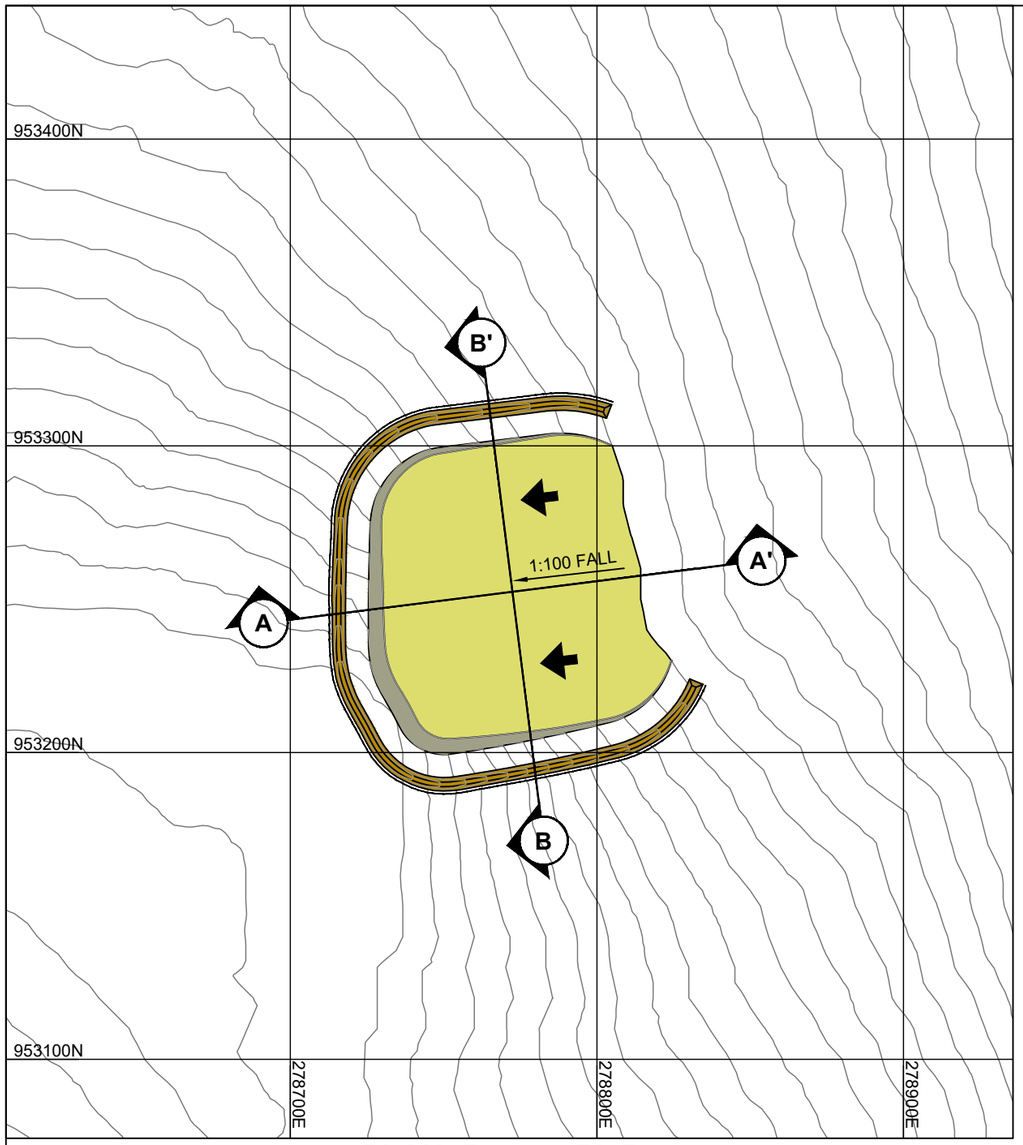
0 25 50 m

Scale 1:2500 @ A3

0 50 100 m

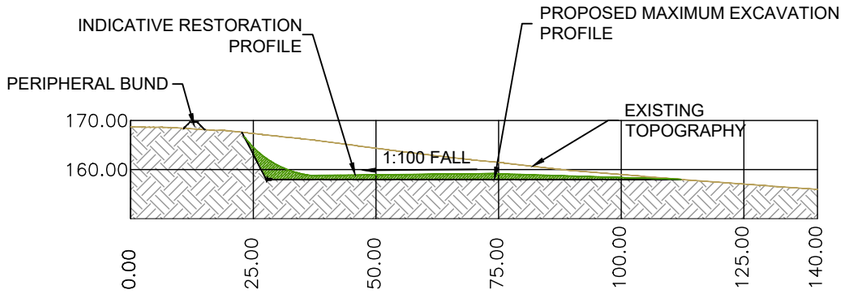
Figure 2.14c
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit D

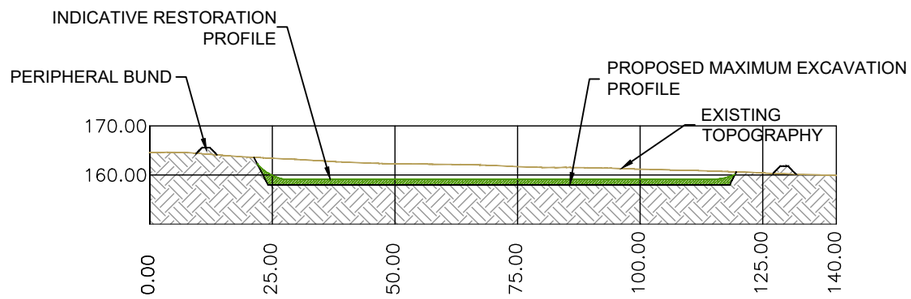
SCALE 1:2000



SECTION A-A'

SCALE: 1:1250

TOTAL EXCAVATION VOLUME:	33,753m^3
OVERBURDEN VOLUME:	2,805m^3
NET STONE VOLUME:	30,948m^3
PERIPHERAL BUND FILL:	1,295m^3
NET STONE TONNAGE:	61,896T
EXCAVATION AREA:	8,249m²
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 12m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 278772 N: 953252



SECTION B-B'

SCALE: 1:1250

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.34m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:1250 @ A3

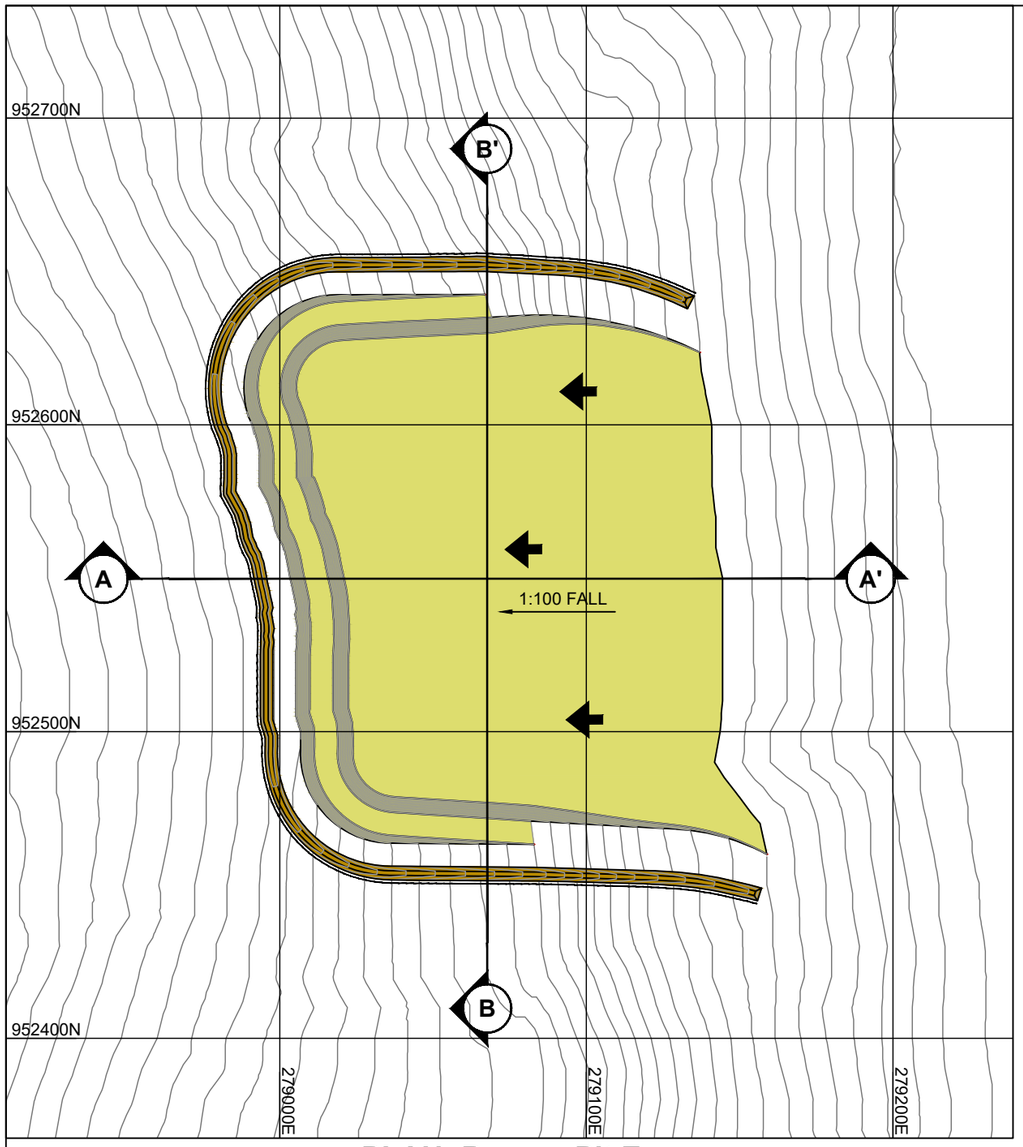
0 25 50 m

Scale 1:2000 @ A3

0 20 40 60 80 m

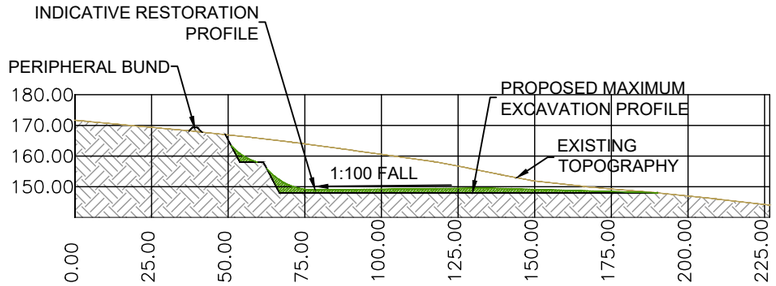
Figure 2.14d
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit E

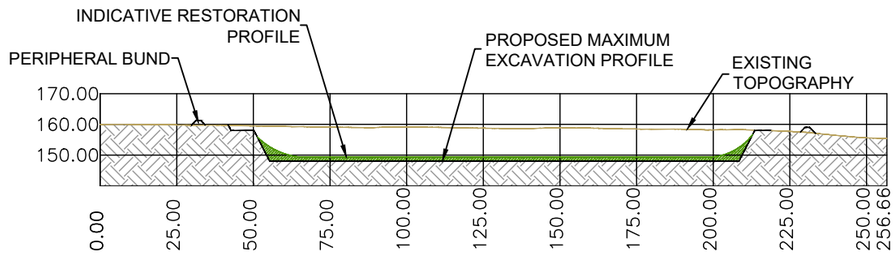
SCALE 1:2000



SECTION A-A'

SCALE: 1:2000

TOTAL EXCAVATION VOLUME:	190,024m^3
OVERBURDEN VOLUME:	30,194m^3
NET STONE VOLUME:	159,830m^3
PERIPHERAL BUND FILL:	2,023m^3
NET STONE TONNAGE:	319,660T
EXCAVATION AREA:	24,350m^2
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 10m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 279068 N: 952550



SECTION B-B'

SCALE: 1:2000

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 1.24m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

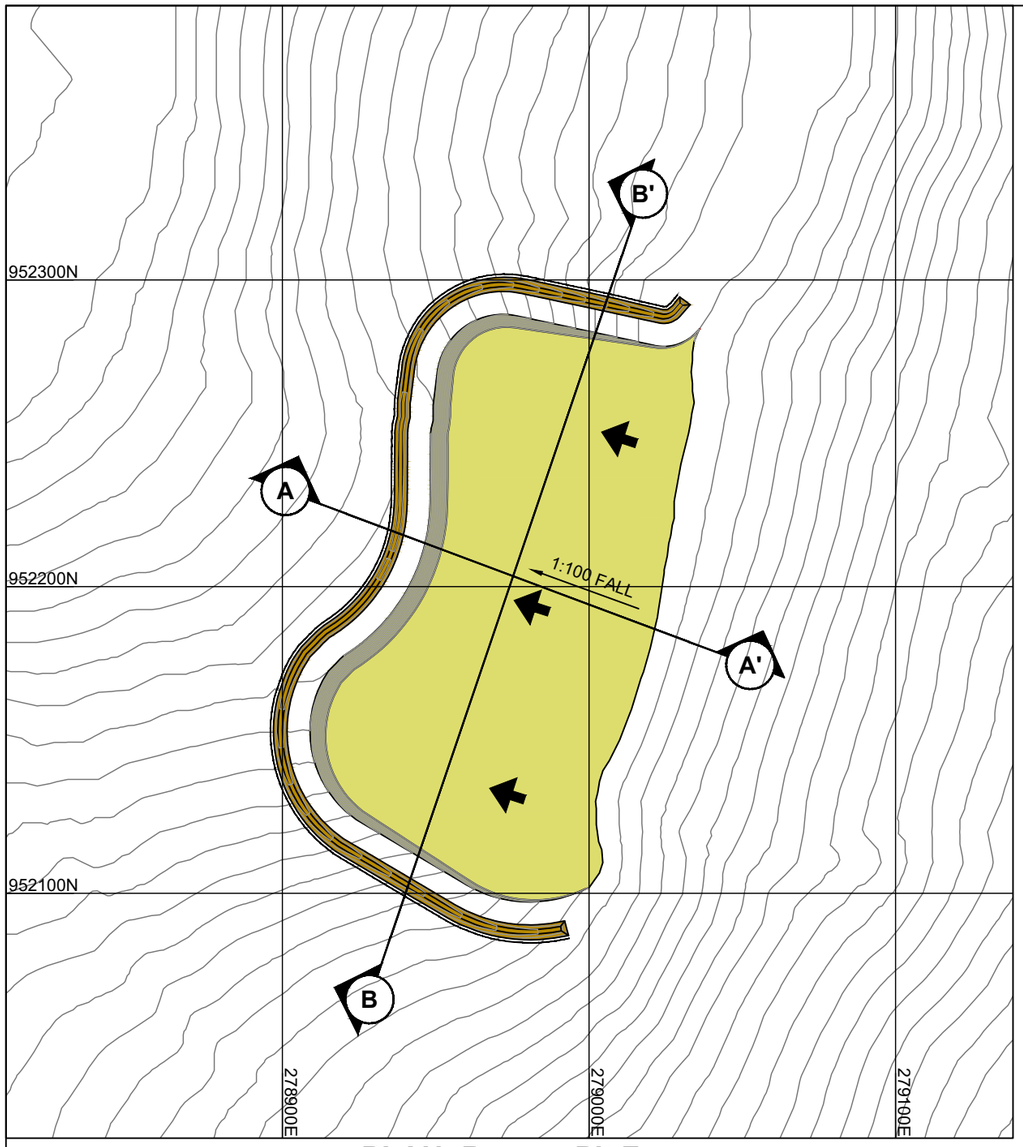
- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:2000 @ A3

0 20 40 60 80 m

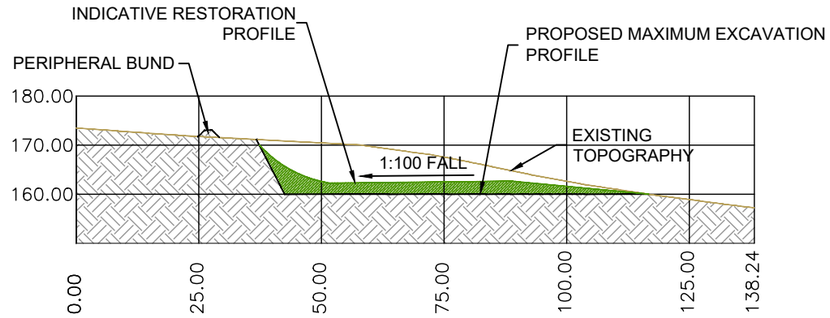
Figure 2.14e
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit F

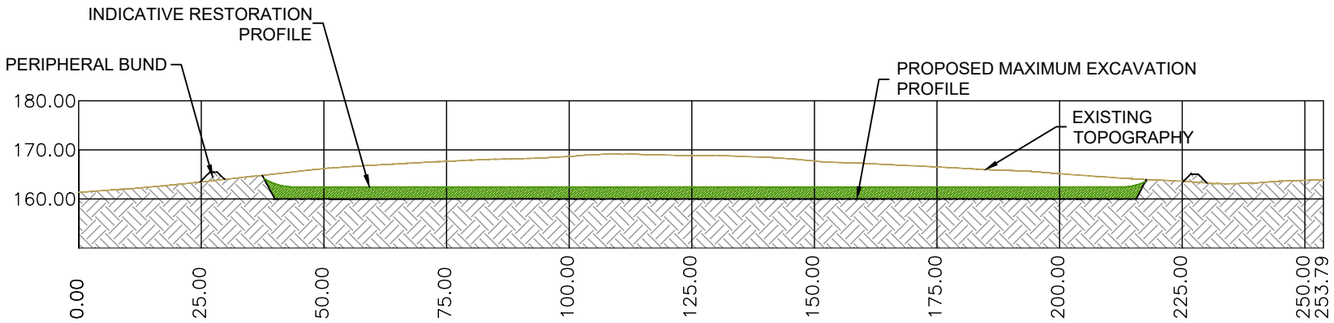
SCALE 1:2000



SECTION A-A'

SCALE: 1:1250

TOTAL EXCAVATION VOLUME:	86,052m^3
OVERBURDEN VOLUME:	6,813m^3
NET STONE VOLUME:	79,239m^3
PERIPHERAL BUND FILL:	1,618m^3
NET STONE TONNAGE:	158,478T
EXCAVATION AREA:	15,484m^2
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 10.25m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E: 278971 N: 952196



SECTION B-B'

SCALE: 1:1250

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.44m IN THICKNESS COMPRISING PEATY SOIL AND PEAT.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:1250 @ A3

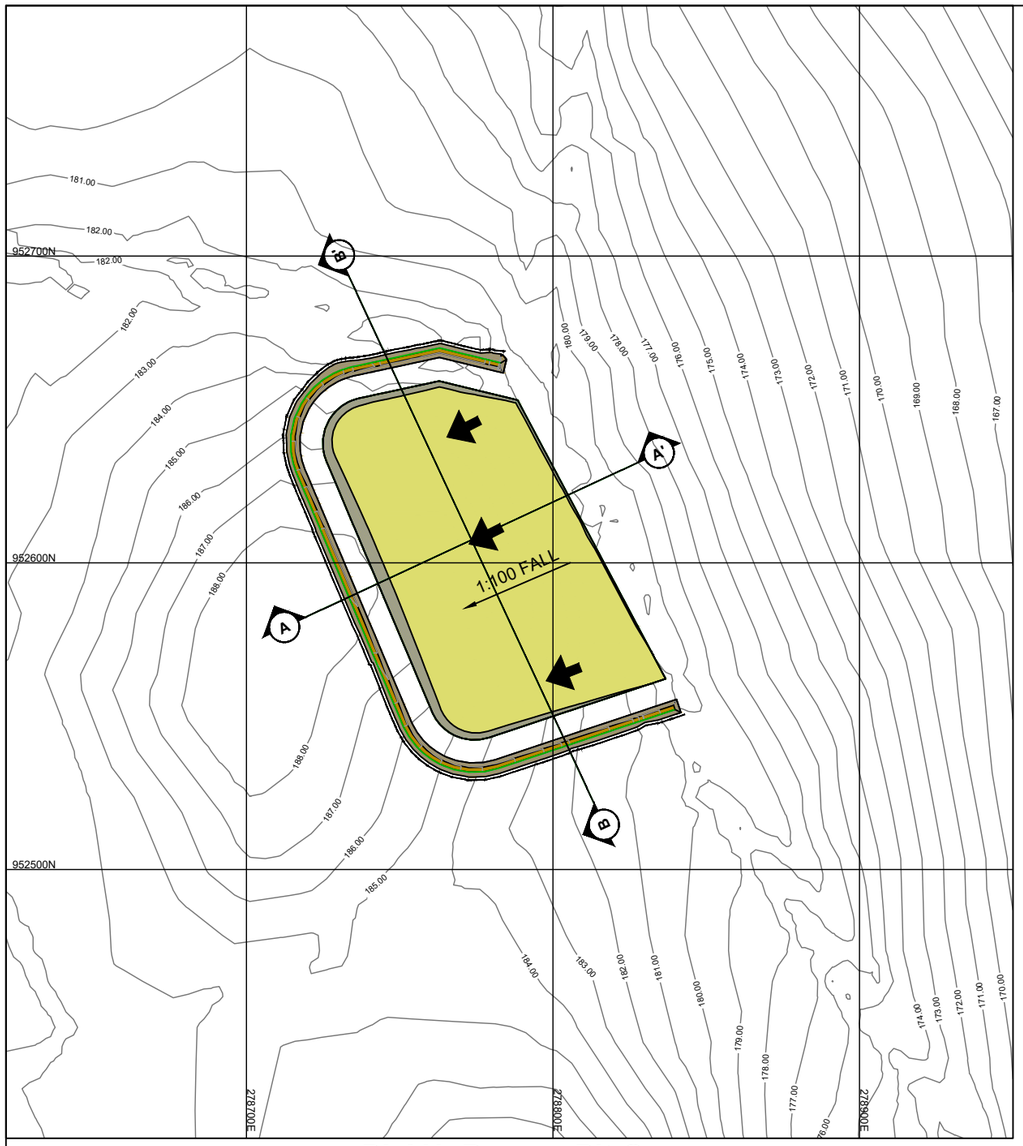
0 25 50 m

Scale 1:2000 @ A3

0 20 40 60 80 m

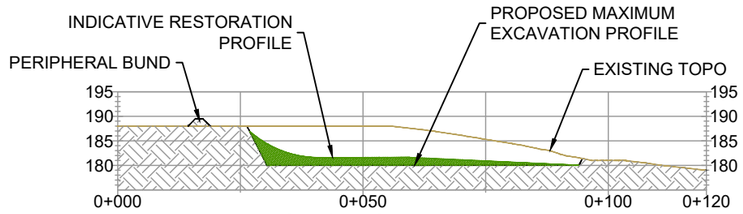
Figure 2.14f
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



PLAN: Borrow Pit G

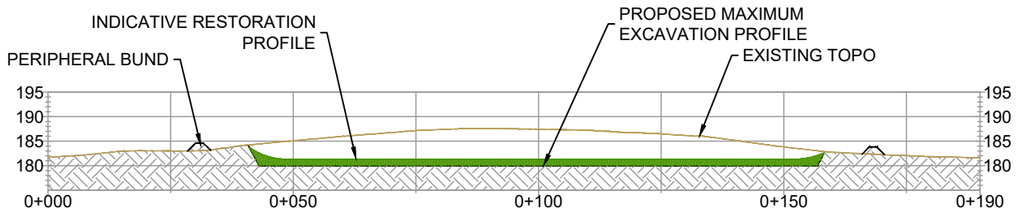
SCALE 1:2000



SECTION A-A'

SCALE: 1:1250

TOTAL EXCAVATION VOLUME:	39,075m^3
OVERBURDEN VOLUME:	3,930m^3
NET STONE VOLUME:	35,145m^3
PERIPHERAL BUND FILL:	1,287m^3
NET STONE TONNAGE:	70,290T
EXCAVATION AREA:	7,860m²
EXCAVATION METHOD REQUIRED:	DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS:	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 8.5m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
COORDINATES FOR CENTRE OF BORROW PIT:	E:278774 N 952611



SECTION B-B'

SCALE: 1:1250

sse Renewables

1. OVERBURDEN ASSUMED TO BE CIRCA 0.5m IN THICKNESS COMPRISING PEATY SOIL.

2. INITIAL STRIPPED OVERBURDEN TO BE PLACED IN PERIPHERAL BUND, WITH SUBSEQUENT OVERBURDEN AND WASTE MATERIALS TO BE STOCKPILED WITHIN FLAT BASAL AREA OF BORROW PIT PRIOR TO BEING USED IN RESTORATION.

3. DESIGN PARAMETERS ARE INDICATIVE AND SHOULD BE REFINED BASED UPON FINDINGS OF GROUND INVESTIGATIONS AND OR INITIAL EXCAVATIONS, TAKING INTO ACCOUNT GROUND CONDITIONS AND HYDROLOGICAL ISSUES.

4. ASSUMES INSITU CONVERSION FACTOR OF 2 TONNES PER m³.

- BENCH/BASE OF EXCAVATION
- EXCAVATION BATTER
- PERIPHERAL BUND
- GENERAL WORKING DIRECTION
- INDICATIVE SURFACE WATER DRAIN (DIVERTING SURFACE WATER TO PREVENT INGRESS INTO BORROW PIT)
- CONTOURS

Scale 1:1250 @ A3

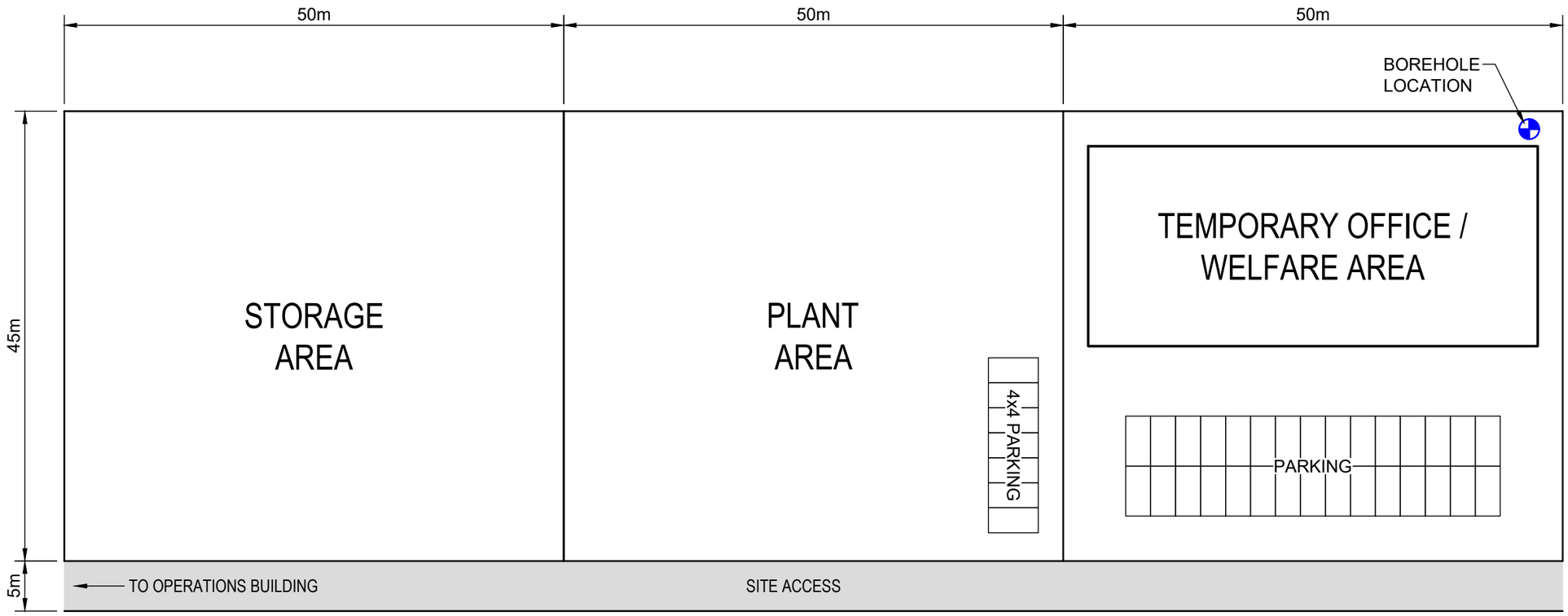
0 25 50 m

Scale 1:2000 @ A3

0 20 40 60 80 m

Figure 2.14g
Borrow Pit Design

Strathy South Wind Farm
EIAR 2020



Notes

1. All dimensions are in metres (m) unless stated otherwise.
2. Layout is indicative only.

Scale 1:500 @ A3

0 5 10 15 20 m

Figure 2.15
Typical Construction Compound

Strathy South Wind Farm
EIAR 2020