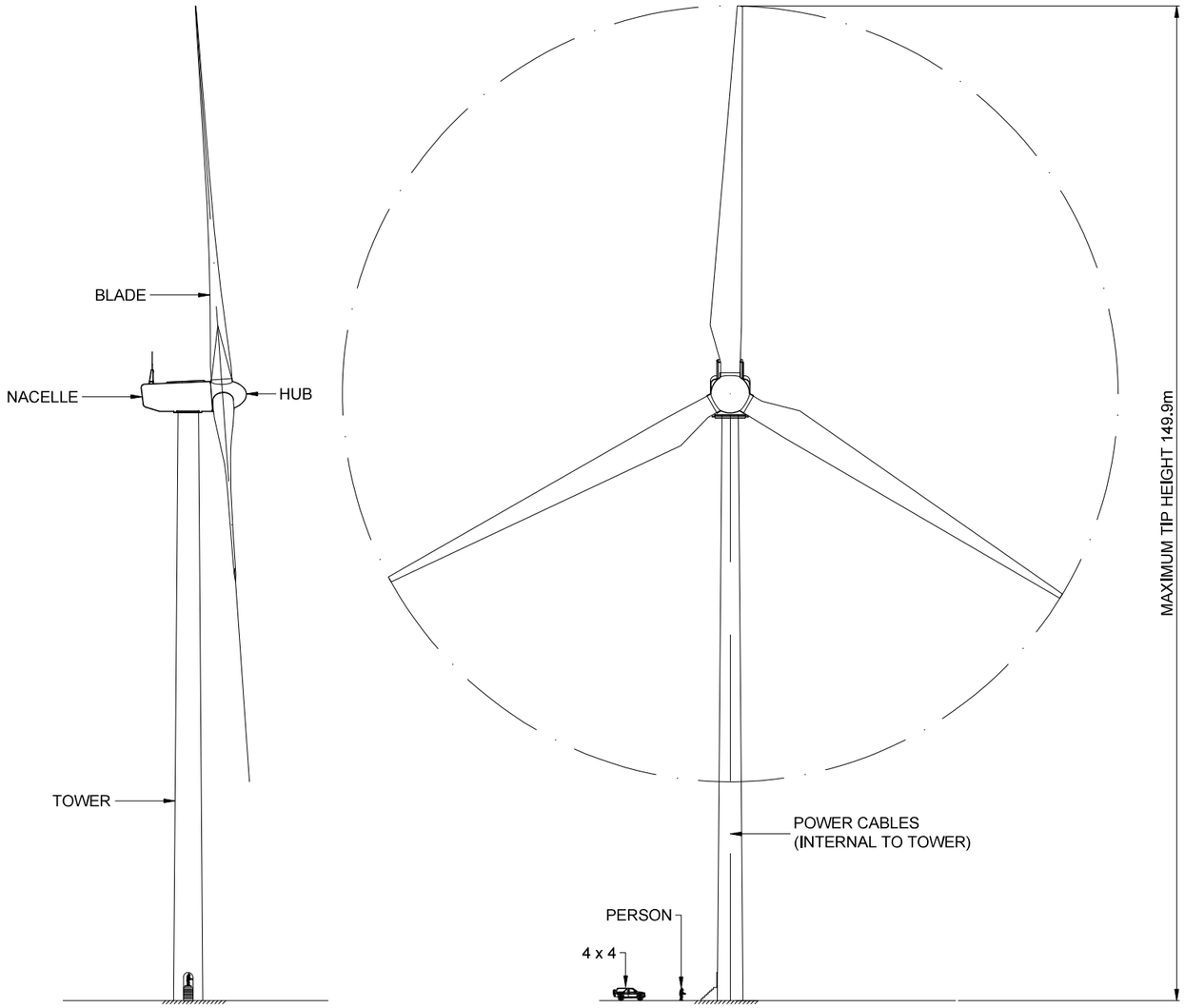

KINTRADWELL WIND FARM

FIGURE 2.1

INDICATIVE WIND TURBINE ELEVATION

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER

03501-RES-WTG-DR-PT-001

SCALE - NTS

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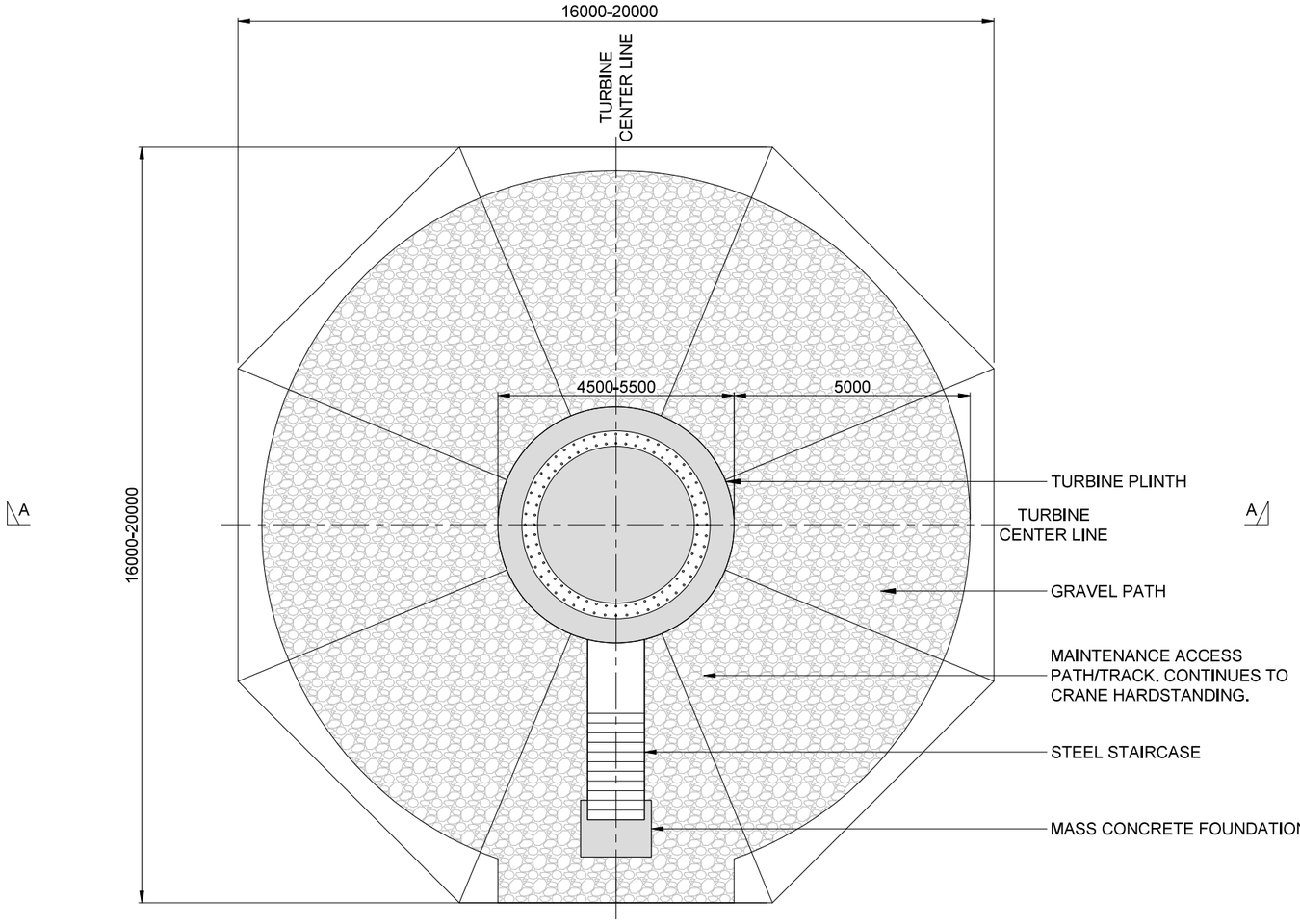
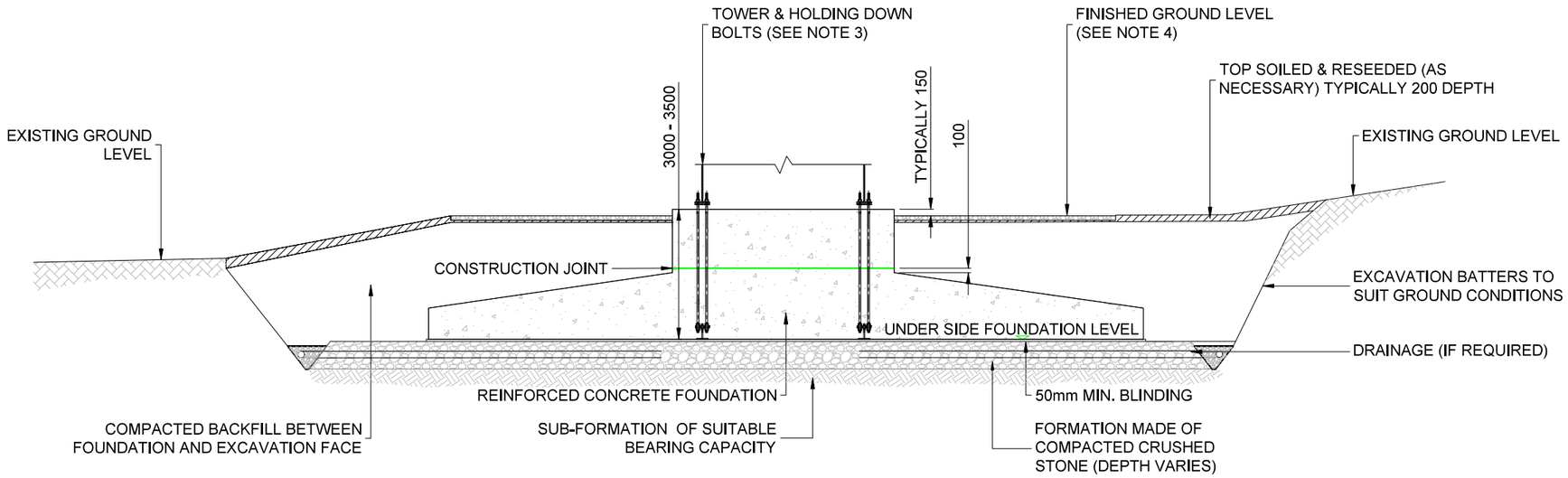
MAXIMUM PERMANENT LAND TAKE	
TURBINE PLINTH	23.8m²
GRAVEL PATH	174m²



PLAN



SECTION A-A

KINTRADWELL WIND FARM

FIGURE 2.2

WIND TURBINE FOUNDATION (GRAVITY FOUNDATION)

NOTES

1. DIMENSIONS AND DETAILS ARE INDICATIVE ONLY AND MAY VARY DUE TO SPECIFIC TURBINE OR GROUND CONDITIONS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED
3. THE HOLDING DOWN BOLT ARRANGEMENT SHOWN ON THIS DRAWING IS TYPICAL. HOWEVER ALTERNATIVE CAST IN ARRANGEMENTS ARE AVAILABLE AND MAY BE SUBSTITUTED DEPENDING ON ACTUAL TURBINE SELECTION.
4. GRADIENT OF FINISHED GROUND LEVEL OVER TURBINE BASE, MAX 1:12.
5. MATERIALS ARISING FROM EXCAVATIONS TO BE SEGREGATED AND PLACED IN AGREED LOCATIONS ADJACENT TO THE WORKING AREA FOR RE-USE. REINSTATEMENT AND /OR PEAT MANAGEMENT PLANS WILL BE DEVELOPED DURING THE DETAILED DESIGN OF SITE INFRASTRUCTURE, IN LINE WITH CURRENT BEST PRACTICE.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-FOU-DR-PT-001

SCALE - 1:125 @ A3

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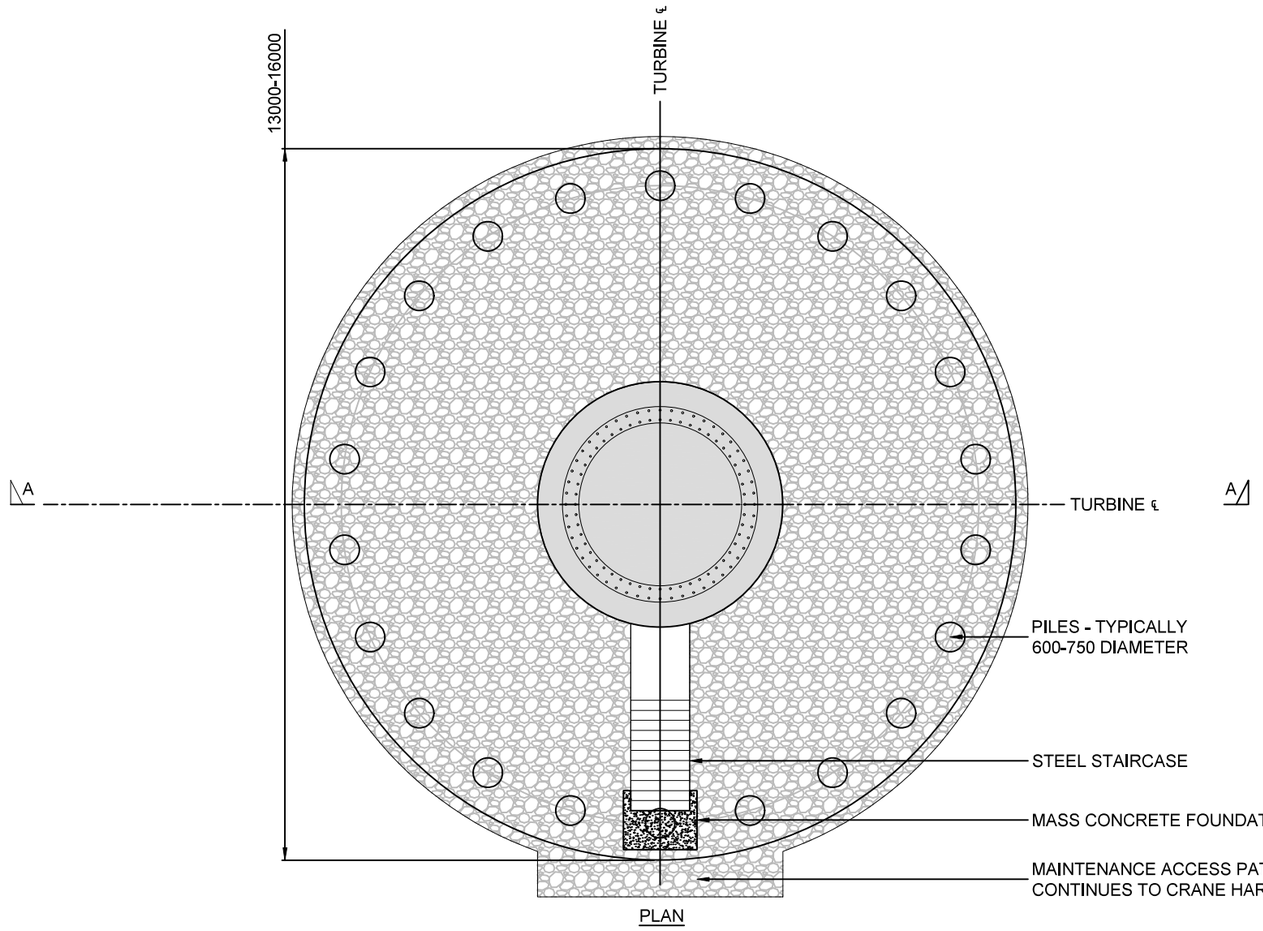
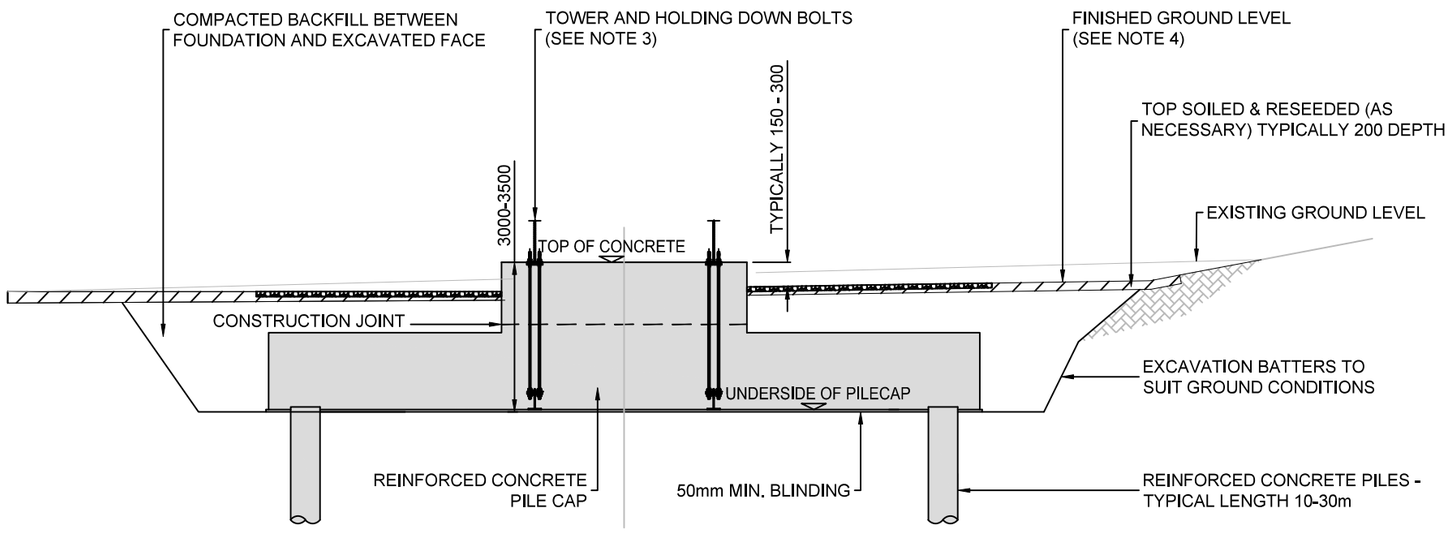


PLAN



SECTION A-A

KINTRADWELL WIND FARM

FIGURE 2.3

WIND TURBINE FOUNDATION (PILED FOUNDATION)

NOTES

1. DIMENSIONS AND DETAILS ARE INDICATIVE ONLY AND MAY VARY DUE TO SPECIFIC TURBINE OR GROUND CONDITIONS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.
3. THE HOLDING DOWN BOLT ARRANGEMENT SHOWN ON THIS DRAWING IS TYPICAL. ALTERNATIVE CAST IN ARRANGEMENTS ARE AVAILABLE AND MAY BE SUBSTITUTED DEPENDING ON ACTUAL TURBINE SELECTION.
4. GRADIENT OF FINISHED GROUND LEVEL OVER TURBINE BASE, MAX 1:12.
5. MATERIALS ARISING FROM EXCAVATIONS TO BE SEGREGATED AND PLACED IN AGREED LOCATIONS ADJACENT TO THE WORKING AREA FOR RE-USE. REINSTATEMENT AND /OR PEAT MANAGEMENT PLANS WILL BE DEVELOPED DURING THE DETAILED DESIGN OF SITE INFRASTRUCTURE, IN LINE WITH CURRENT BEST PRACTICE.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-FOU-DR-PT-002

SCALE - 1:125 @ A3

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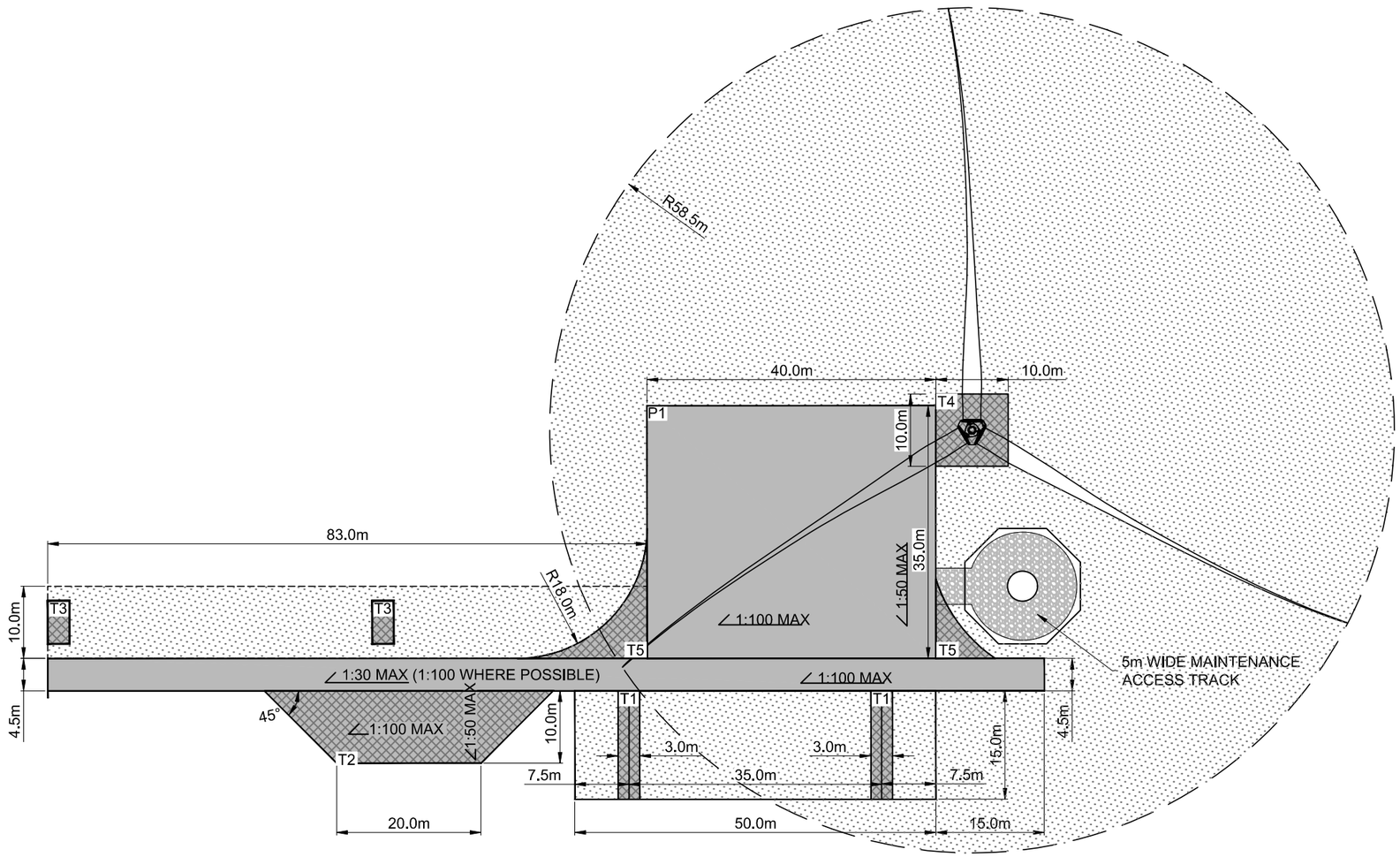
REF	DESCRIPTION	AREA (m²)	MAINTENANCE
P1	MAIN HARDSTANDING	1400.0	PERMANENT
T1	BLADE LAYDOWN SUPPORTS	90.0	TEMPORARY
T2	ASSIST CRANE AREA	300.0	TEMPORARY
T3	BOOM SUPPORT	36.0	TEMPORARY
T4	ROTOR ASSEMBLY AREA	100.0	TEMPORARY
T5	TEMPORARY ACCESS	104.0	TEMPORARY



KINTRADWELL WIND FARM

FIGURE 2.4

CRANE HARDSTANDING GENERAL ARRANGEMENT

KEY

- PERMANENT WORKS
- TEMPORARY WORKS
- AREA TO BE FREE FROM TOPOGRAPHICAL AND ECOLOGICAL CONSTRAINTS
- MAINTENANCE ACCESS TRACK

NOTES

1. ALL DIMENSIONS IN METRES.
2. HARDSTANDING ARRANGEMENT SUBJECT TO CHANGE DEPENDANT ON SPECIFIC WIND TURBINE MODEL SELECTED FOR CONSTRUCTION.
3. ALL HARDSTANDINGS TO BE CONSTRUCTED ON SUITABLE FOUNDATION MATERIAL.
4. ALL HARDSTANDINGS TO BE FINISHED WITH CRUSHED ROCK, FORMING A FREE DRAINING SURFACE.
5. TRACK ADJACENT TO CRANE HARDSTANDING TO BE DESIGNED TO ACCEPT CRANE OUTRIGGER LOADING.
6. THE PRELIMINARY CRANE HARDSTANDING LAYOUT HAS BEEN DEVELOPED TO ACCOMMODATE EITHER A SINGLE BLADE LIFT OR FULL ROTOR LIFT.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER

03501-RES-ACC-DR-PT-002

SCALE - 1:750 @ A3

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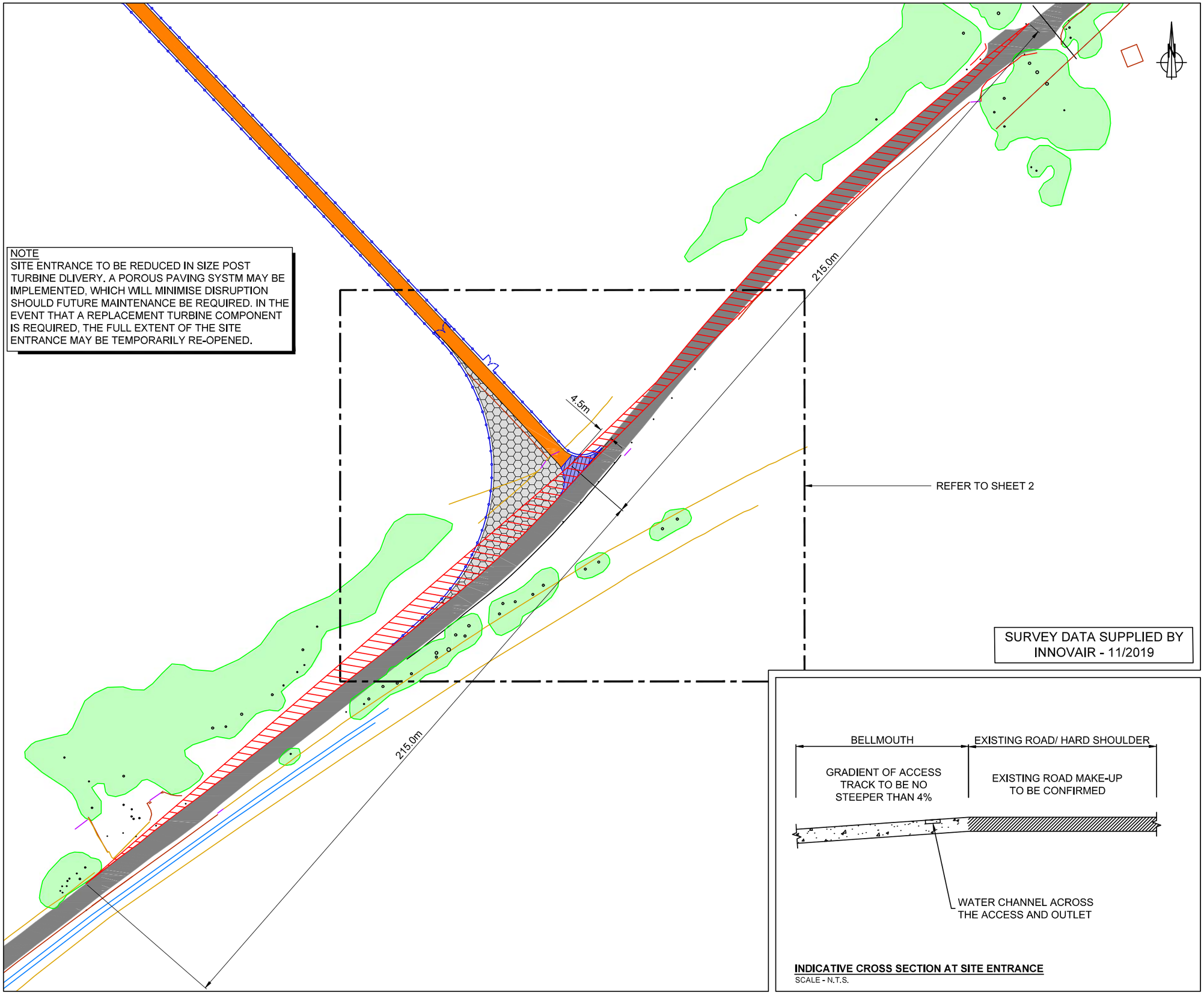
NOTE
SITE ENTRANCE TO BE REDUCED IN SIZE POST TURBINE DLIVERY. A POROUS PAVING SYSTM MAY BE IMPLEMENTED, WHICH WILL MINIMISE DISRUPTION SHOULD FUTURE MAINTENANCE BE REQUIRED. IN THE EVENT THAT A REPLACEMENT TURBINE COMPONENT IS REQUIRED, THE FULL EXTENT OF THE SITE ENTRANCE MAY BE TEMPORARILY RE-OPENED.



SURVEY DATA SUPPLIED BY INNOVAIR - 11/2019

INDICATIVE CROSS SECTION AT SITE ENTRANCE
SCALE - N.T.S.

KINTRADWELL WIND FARM

FIGURE 2.5

SITE ENTRANCE SHEET 1 OF 2

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KEY

- EXISTING ROAD
- PROPOSED SITE TRACK
- PROPOSED ABNORMAL LOADS: WIDENING
- PROPOSED FENCE
- PROPOSED GATE
- 60mm SURFACE COURSE, 75mm BINDER COURSE
- MINIMUM 150mm TYPE 1 SUB-BASE SOFT AREAS AND UNSUITABLE MATERIAL (PEAT, TOPSOIL, SILT) TO BE REMOVED.
- MINIMUM FALL FROM ENTRANCE GATE TO PUBLIC ROAD 1:100.
- EXISTENCE OF SERVICES TO BE CHECKED WITH RELEVANT AUTHORITIES.
- MINIMUM REQUIREMENTS FOR VISIBILITY IN ACCORDANCE WITH THE DESIGN MANUAL FOR ROADS AND BRIDGES.
- VEGETATION TO BE TRIMMED AS NECESSARY.

NOTES:

1. DO NOT SCALE FROM DRAWING.
2. DATA DERIVED FROM TOPOGRAPHIC SURVEY.
3. DETAILS AND DIMENSIONS ARE INDICATIVE ONLY AND SUBJECT TO CHANGES AT DETAILED DESIGN STAGE.
4. APPROPRIATE SUDS DESIGN MEASURES WILL BE EMPLOYED AT DETAIL DESIGN STAGE.
5. ALL VISIBILITY SPLAYS SHOWN ARE WITHIN LANDS UNDER APPLICANTS CONTROL. ANY PHYSICAL HINDRANCES WITHIN THE EXTENTS OF THE VISIBILITY SPLAYS WILL BE REMOVED. VEGETATION WILL BE TRIMMED TO A MAXIMUM OF 250MM ABOVE EGL.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-ACC-DR-PT-001

SCALE - 1:1250

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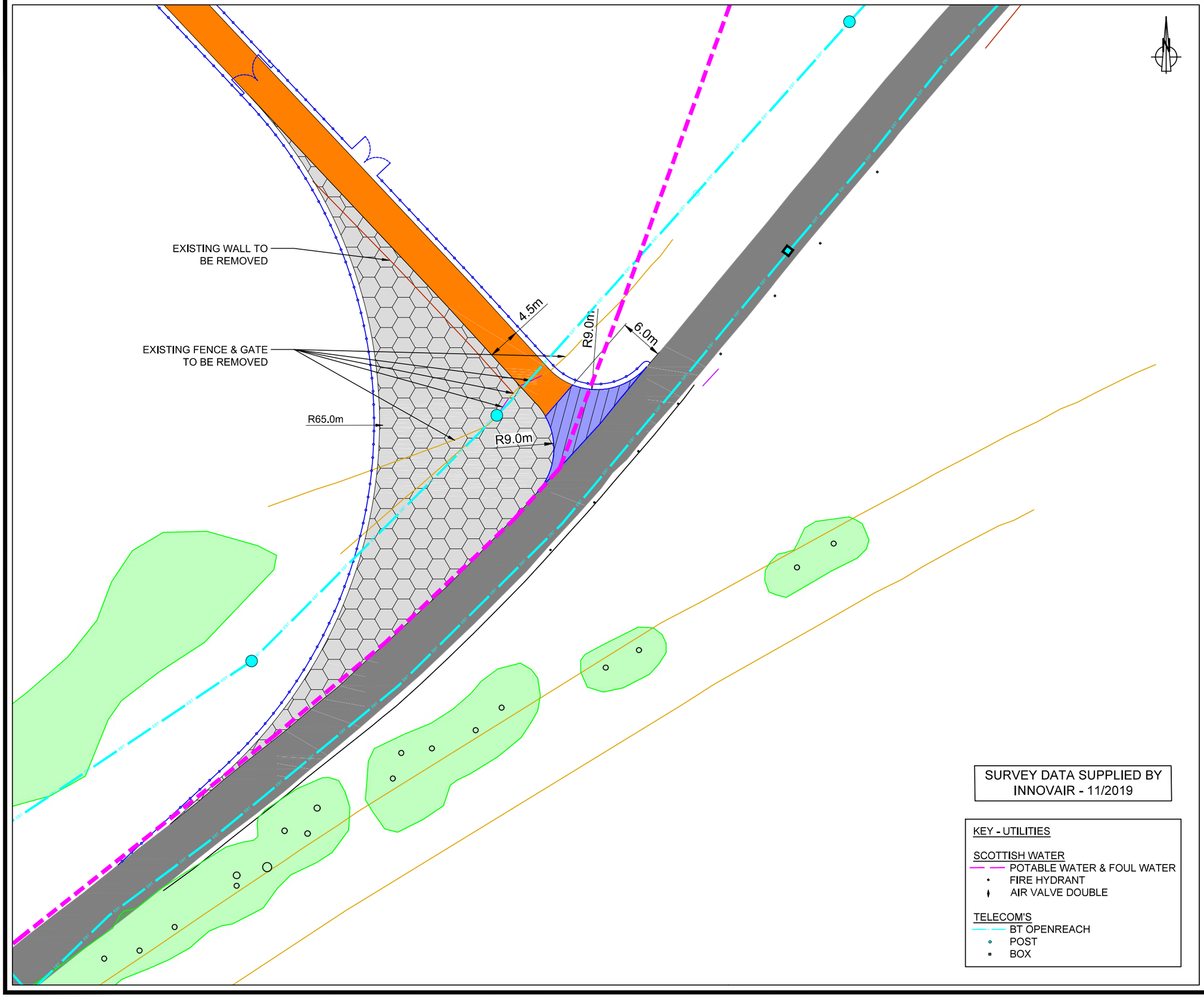

SURVEY DATA SUPPLIED BY INNOVAIR - 11/2019

KEY - UTILITIES

SCOTTISH WATER
- POTABLE WATER & FOUL WATER
- FIRE HYDRANT
- AIR VALVE DOUBLE

TELECOM'S
- BT OPENREACH
- POST
- BOX

KINTRADWELL WIND FARM

FIGURE 2.5

SITE ENTRANCE SHEET 2 OF 2

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KEY

- EXISTING ROAD
- PROPOSED SITE TRACK
- PROPOSED ABNORMAL LOADS: WIDENING
- PROPOSED FENCE
- PROPOSED GATE
- 60mm SURFACE COURSE, 75mm BINDER COURSE
- MINIMUM 150mm TYPE 1 SUB-BASE SOFT AREAS AND UNSUITABLE MATERIAL (PEAT, TOPSOIL, SILT) TO BE REMOVED.
- MINIMUM FALL FROM ENTRANCE GATE TO PUBLIC ROAD 1:100.
- EXISTENCE OF SERVICES TO BE CHECKED WITH RELEVANT AUTHORITIES.

NOTES:

1. DO NOT SCALE FROM DRAWING.
2. DATA DERIVED FROM TOPOGRAPHIC SURVEY.
3. DETAILS AND DIMENSIONS ARE INDICATIVE ONLY AND SUBJECT TO CHANGES AT DETAILED DESIGN STAGE.
4. APPROPRIATE SUDS DESIGN MEASURES WILL BE EMPLOYED AT DETAIL DESIGN STAGE.
5. ALL VISIBILITY SPLAYS SHOWN ARE WITHIN LANDS UNDER APPLICANTS CONTROL. ANY PHYSICAL HINDRANCES WITHIN THE EXTENTS OF THE VISIBILITY SPLAYS WILL BE REMOVED. VEGETATION WILL BE TRIMMED TO A MAXIMUM OF 250MM ABOVE EGL.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-ACC-DR-PT-001

SCALE - 1:500

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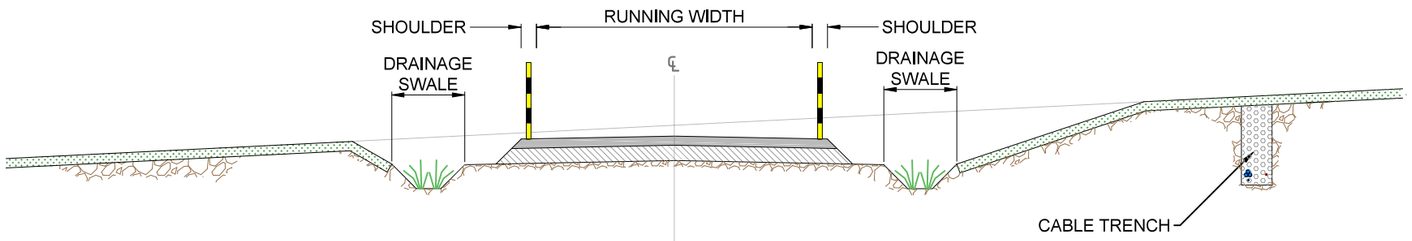
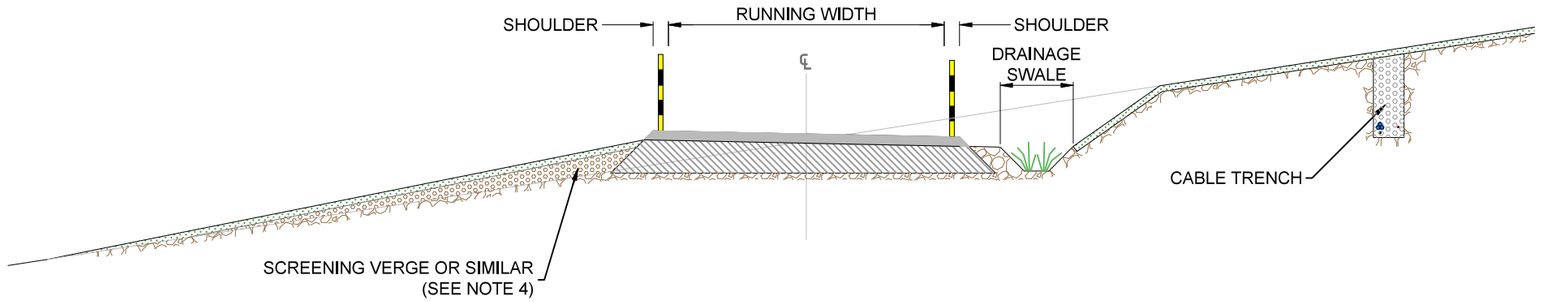
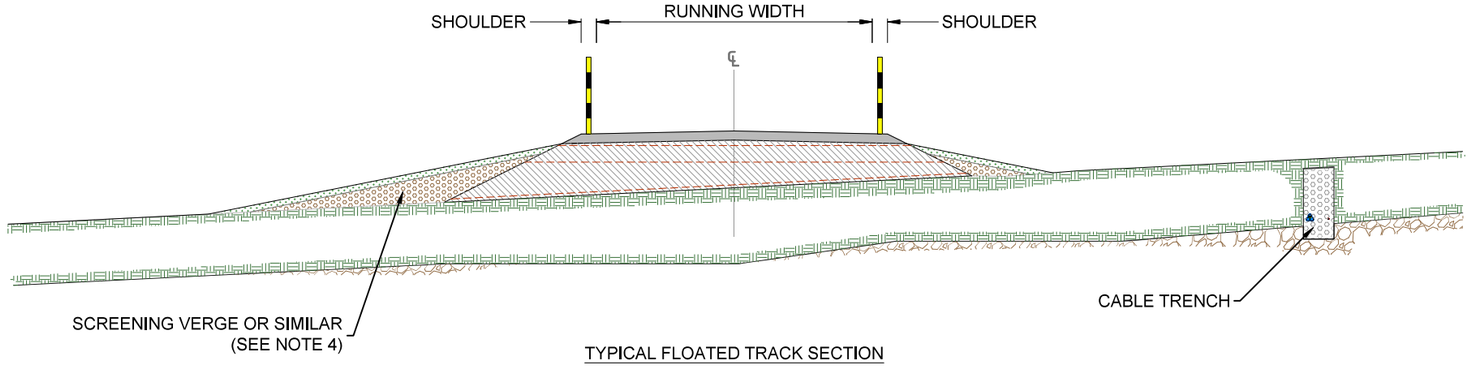


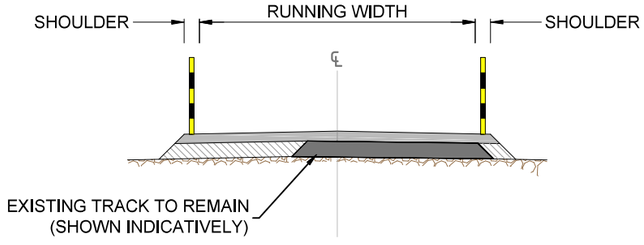
TYPICAL CUT TRACK SECTION



TYPICAL CROSS-SLOPE CUT TRACK SECTION



TYPICAL FLOATED TRACK SECTION



TYPICAL UPGRADE TRACK SECTION

KEY

- RUNNING SURFACE
- BASE/CAPPING LAYER
- TOPSOIL
- SUBGRADE
- PEAT LAYER/SOFT GROUND
- EXCAVATED MATERIAL
- GEOGRID
- EXISTING GROUND LEVEL
- SNOW POLES (WHERE REQUIRED)

KINTRADWELL WIND FARM

FIGURE 2.6

ACCESS TRACK TYPICAL DETAILS

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. TRACK WIDTH TO INCREASE ON BENDS AND PASSING PLACES.
3. ALL EMBANKMENT SLOPES TO BE PROVIDED AT A STABLE ANGLE BASED ON THE PROPERTIES OF THE MATERIAL ENCOUNTERED ON SITE.
4. EXCAVATED MATERIAL WILL BE PLACED IN AGREED LOCATIONS. REINSTATEMENT AND/OR SPOIL MANAGEMENT PLANS WILL BE DEVELOPED IN LINE WITH CURRENT BEST PRACTICE.
5. TRACK CONSTRUCTION TYPE TO BE DETERMINED DURING DETAILED DESIGN. LAYOUT OF DRAINAGE, CABLE TRENCHES AND STORAGE BUNDS MAY VARY.
6. RUNNING SURFACE AND BASE/CAPPING LAYER TO BE FORMED FROM SUITABLE MATERIALS COMPACTED IN LAYERS.
7. GEOSYNTHETIC REINFORCEMENT OR SOIL STABILISATION MAY BE USED TO REDUCE THE DEPTH OF TRACK CONSTRUCTION. REQUIREMENT TO BE DETERMINED DURING DETAILED DESIGN.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-ACC-DR-LO-003

SCALE - NOT TO SCALE @ A3

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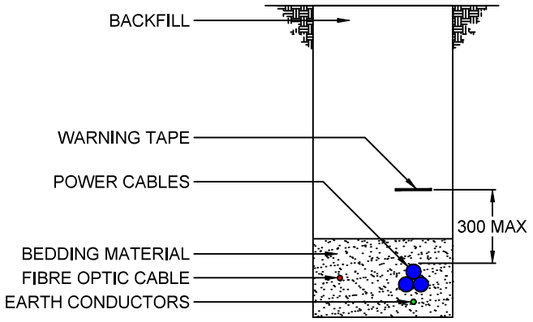
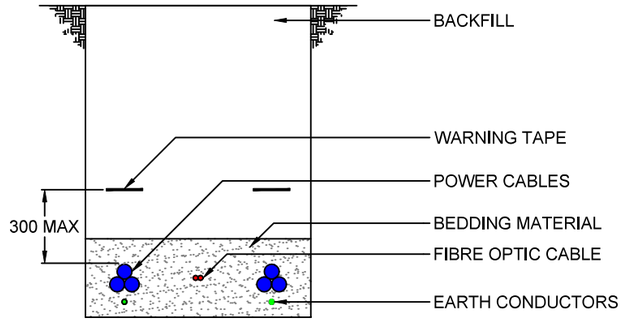
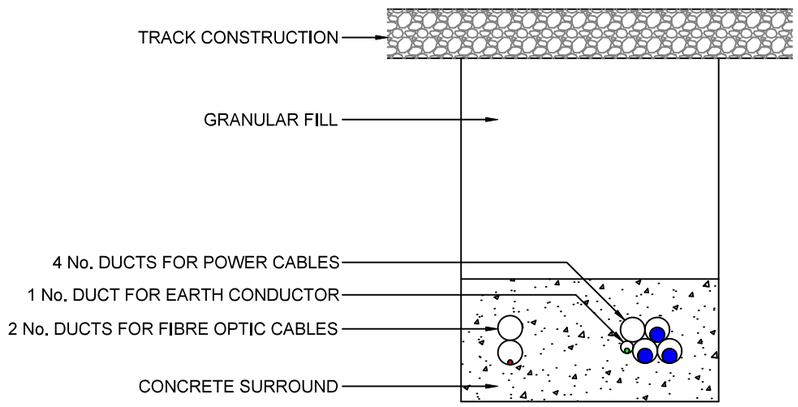


SINGLE CIRCUIT

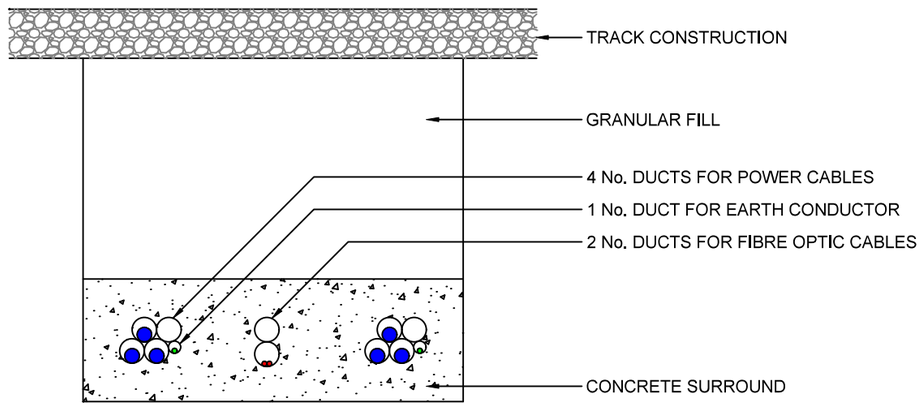


DOUBLE CIRCUIT

TYPICAL CABLE TRENCHES



SINGLE CIRCUIT



DOUBLE CIRCUIT

TYPICAL TRACK CROSSINGS

KINTRADWELL WIND FARM

FIGURE 2.7

CABLE TRENCH TYPICAL DETAILS

NOTES

1. THIS DRAWING IS INDICATIVE ONLY AND IS SUBJECT TO CHANGE AT THE DETAILED DESIGN STAGE.
2. ALL DIMENSIONS IN mm.
3. CABLES MAY BE INSTALLED BY CABLE PLOUGH FOR DISTANCES GREATER THAN 1km.

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-CBL-DR-EE-001

SCALE - NOT TO SCALE

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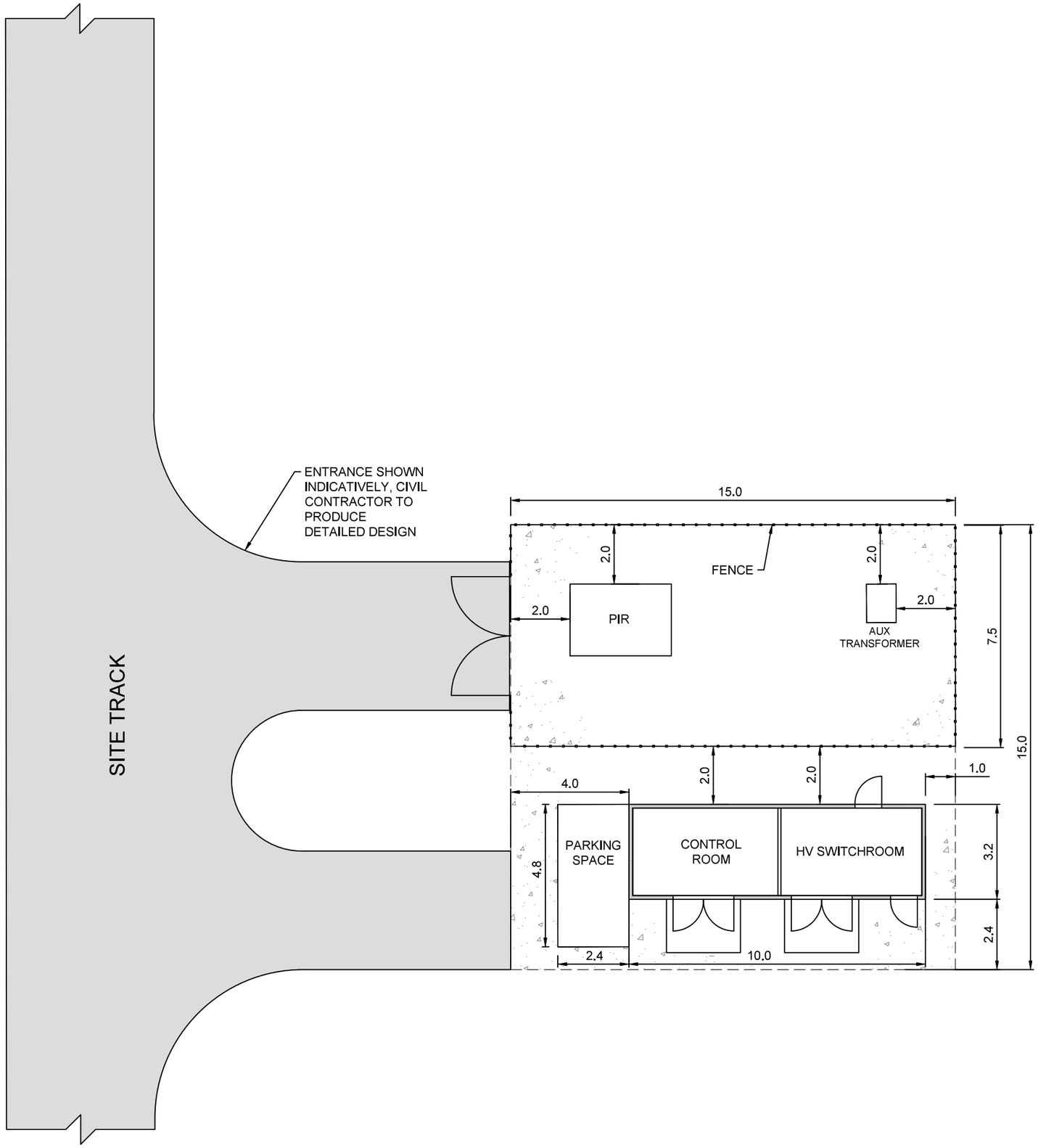

KINTRADWELL WIND FARM

FIGURE 2.8

TYPICAL SWITCHING STATION PLAN

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-SUB-DR-EE-004

SCALE - 1:150 @ A3

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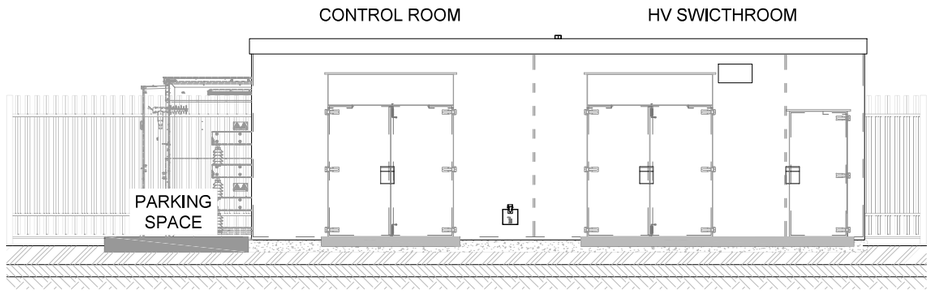
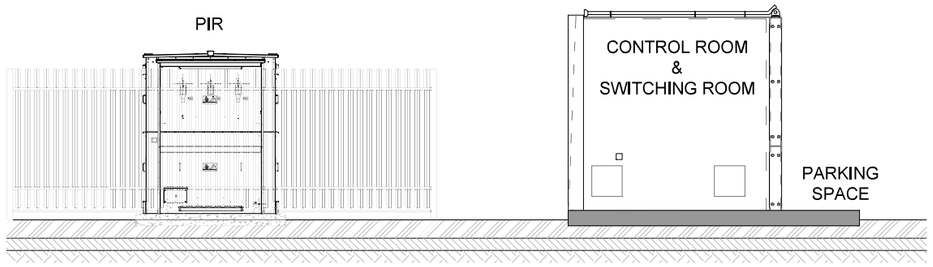
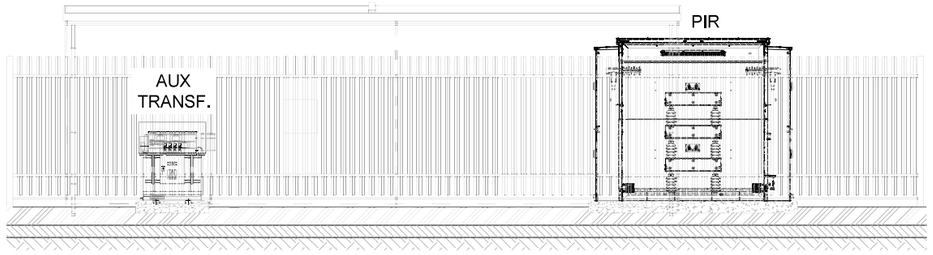


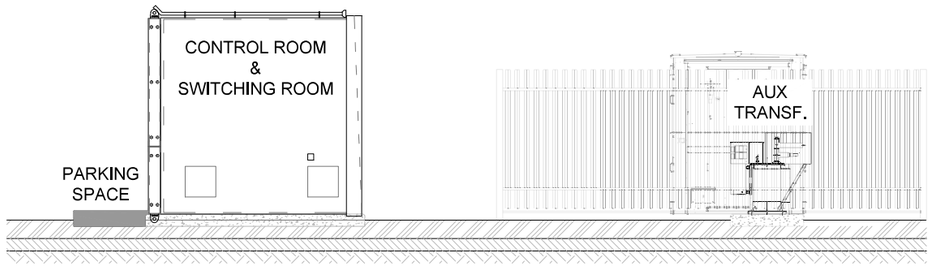
FRONT ELEVATION



LEFT ELEVATION VIEW

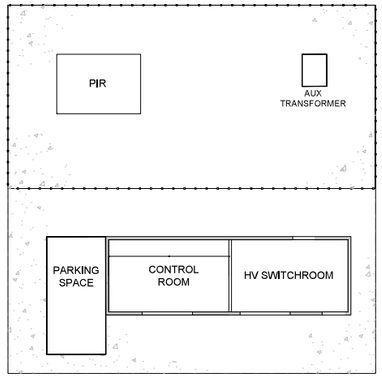


REAR ELEVATION



RIGHT ELEVATION VIEW

SCALE 1:100



PLAN VIEW - SCALE 1:250

KINTRADWELL WIND FARM

FIGURE 2.9

SWITCHING STATION & ELEVATIONS

NOTES

1. BUILDINGS TO BE FINISHED IN RAL 6002, OR OTHER COLOUR AS AGREED WITH THE HIGHLAND COUNCIL.
2. FOR CONTROL BUILDING AND SUBSTATION COMPOUND LAYOUT REFER TO DRAWING 03501-RES-SUB-EE-004.

LAYOUT DWG: N/A

T-LAYOUT NO.: N/A

DRAWING NUMBER: **03501-RES-SUB-DR-EE-005**

SCALE - AS SHOWN @ A3

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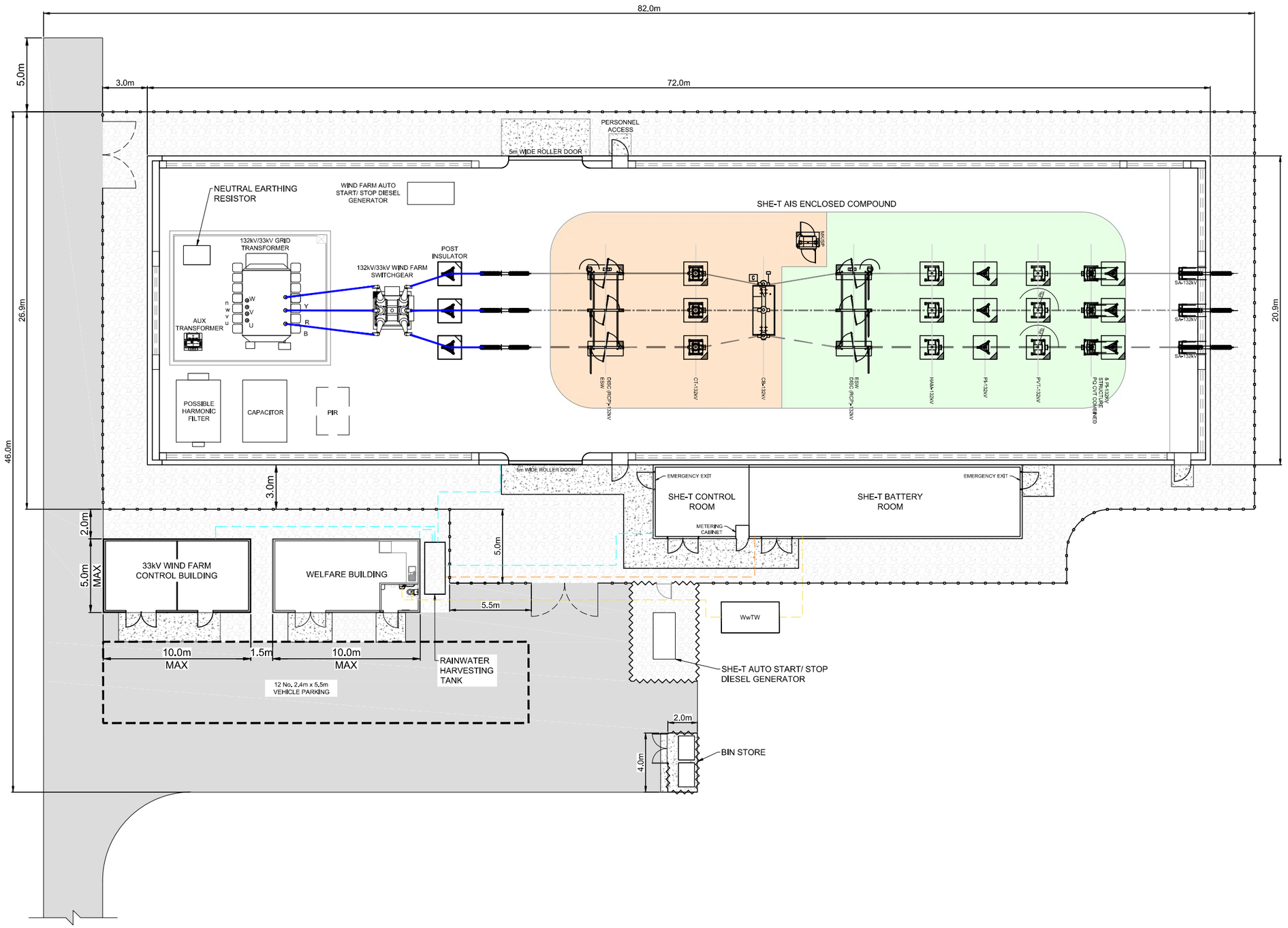

KINTRADWELL WIND FARM

FIGURE 2.10

SUBSTATION & CONTROL ROOM COMPOUND PLAN

NOTES:

1. ELEVATIONS SHOWN INDICATIVELY.
2. SCREENING SHOWN INDICATIVELY.
3. BUILDING FINISHES SHALL BE FACTORY TYPE FINISH (EG. GLASS REINFORCED PLASTIC).
4. TRANSFORMER HEIGHT SHOWN INDICATIVELY AND EXCLUDES ANY RAISED PLINTHS OR BUNDS. FINAL OVERALL HEIGHT DEPENDENT ON FINAL BUND DESIGN.

FINISH COLOURS:

THE FOLLOWING FINISH COLOURS ARE PROVIDED AS A GUIDE ONLY. ACCURACY OF COLOURS IS DEPENDENT ON DISPLAY / PLOTTER COLOUR SETTINGS AND CALIBRATION. THE COLOURS BELOW MAY BE SUBSTITUTED BY A SIMILAR SHADE TO SUIT SUPPLY AVAILABILITY. COLOURS SHOWN IN ELEVATIONS ARE INDICATIVE ONLY.

LIGHT GREY - FENCES
(GOOSE GREY - BS4800 REF.00.A.05)

VAN DYKE BROWN - BUILDINGS
(RAL 8028)

KEY:

BOUND SURFACE - CONCRETE, ASPHALT OR SIMILAR

HARDSTANDING FORMED OF CRUSHED STONE OR SIMILAR APPRVED

PALISADE FENCE

POST AND WIRE FENCE

KEY - SHE-T AIS ENCLOSED COMPOUND:

132kV CONTESTABLE EQUIPMENT

132kV NON-CONTESTABLE EQUIPMENT

CB	-	CIRCUIT BREAKER (SF6 FREE)
CT	-	CURRENT TRANSFORMER
DISC	-	DISCONNECTOR (RCP)
DP	-	DRAWPIT
ESW	-	EARTHSWITCH
FL	-	FLOODLIGHT
HAM	-	HIGH ACCURACY MONITORING UNIT
LLFL	-	LOW LEVEL FLOODLIGHT
MK/SP	-	MARSHALING KIOSK/SUPPLIES PILLAR
PI	-	POST INSULATOR
PVT	-	POWER VOLTAGE TRANSFORMER
PQCVT	-	POWER QUALITY CAPACITIVE VOLTAGE TRANSFORMER
SA	-	SURGE ARRESTOR

LAYOUT DWG	N/A
T-LAYOUT NO.	N/A

DRAWING NUMBER
03501-RES-SUB-DR-EE-001

SCALE - 1:200 @ A2

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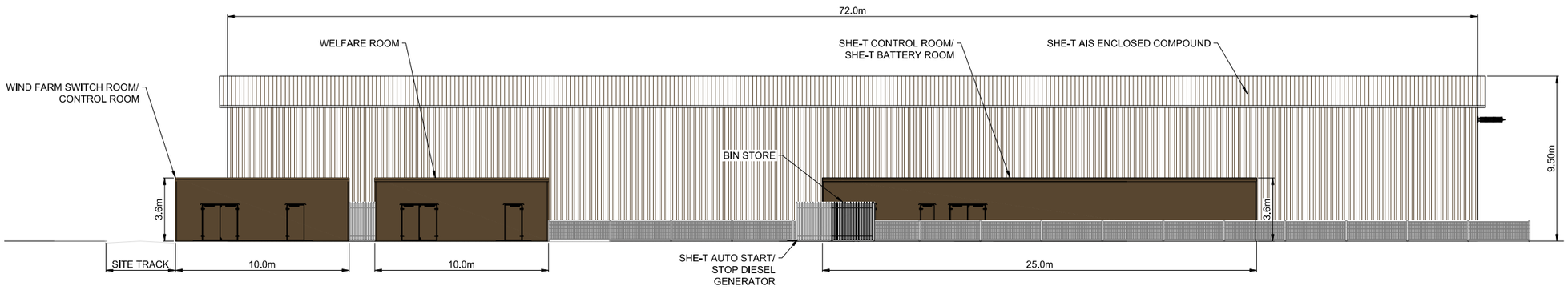
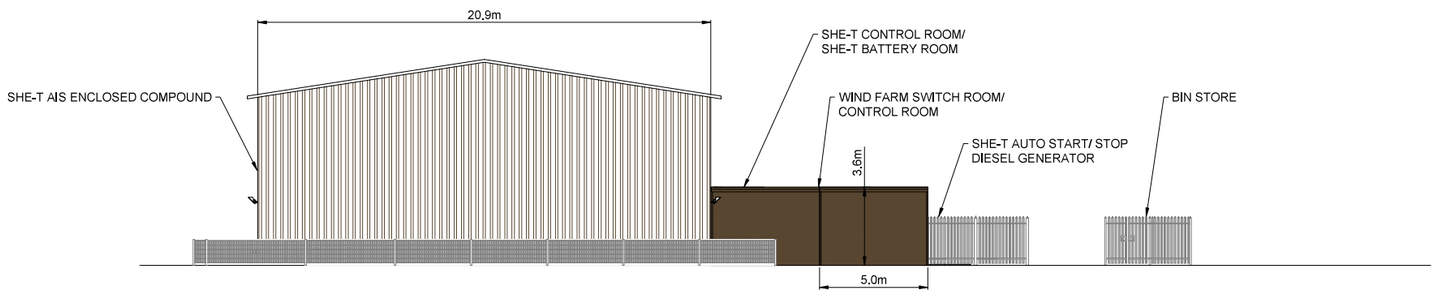


ELEVATION (A)
SCALE 1:200



ELEVATION (B)
SCALE 1:200

KINTRADWELL WIND FARM

FIGURE 2.11

SUBSTATION & CONTROL ROOM ELEVATIONS

NOTES:

1. ELEVATIONS SHOWN INDICATIVELY.
2. SCREENING SHOWN INDICATIVELY.
3. BUILDING FINISHES SHALL BE FACTORY TYPE FINISH (EG. GLASS REINFORCED PLASTIC).
4. TRANSFORMER HEIGHT SHOWN INDICATIVELY AND EXCLUDES ANY RAISED PLINTHS OR BUNDS. FINAL OVERALL HEIGHT DEPENDENT ON FINAL BUND DESIGN.

FINISH COLOURS:

THE FOLLOWING FINISH COLOURS ARE PROVIDED AS A GUIDE ONLY. ACCURACY OF COLOURS IS DEPENDENT ON DISPLAY / PLOTTER COLOUR SETTINGS AND CALIBRATION. THE COLOURS BELOW MAY BE SUBSTITUTED BY A SIMILAR SHADE TO SUIT SUPPLY AVAILABILITY. COLOURS SHOWN IN ELEVATIONS ARE INDICATIVE ONLY.

LIGHT GREY - FENCES
(GOOSE GREY - BS4800 REF.00.A.05)

VAN DYKE BROWN - BUILDINGS
(COLOUR CODE - 584630)

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-SUB-DR-EE-002

SCALE - AS SHOWN @ A2

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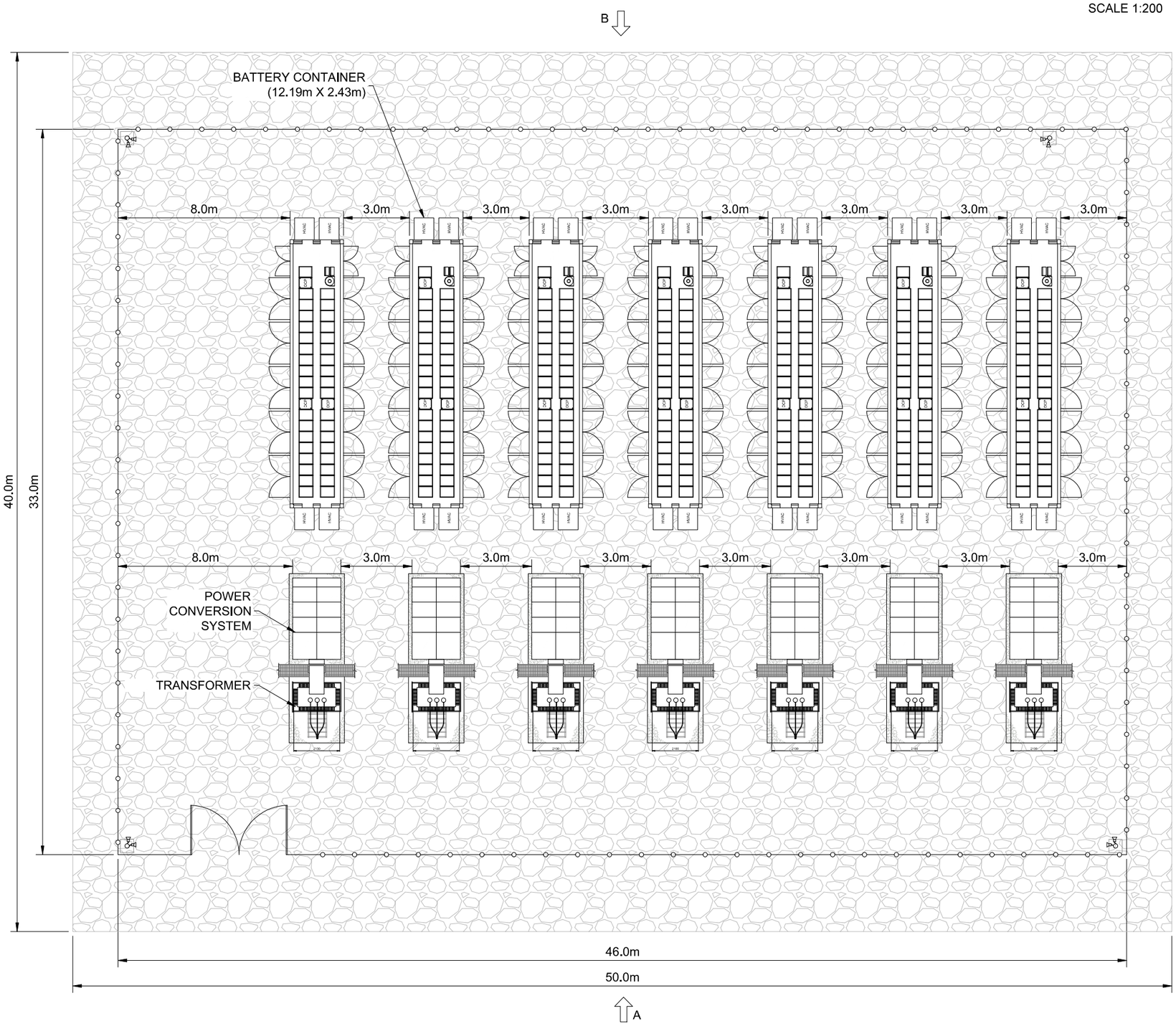
0 2 4 6 8 10m

SCALE 1:200



KINTRADWELL WIND FARM

FIGURE 2.12

BATTERY STORAGE COMPOUND PLAN AND ELEVATIONS

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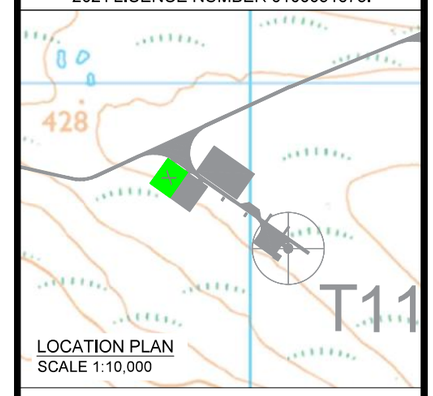

LOCATION PLAN
SCALE 1:10,000

KEY:

- INFRASTRUCTURE
- 18-25mm GRADE, 150mm DEEP, CLEAN CRUSHED ROCK
- PALISADE FENCE 2.4m HIGH
- BATTERY STORAGE LOCATION
- MAX. 4.5m HIGH 50W HALIDE LAMP OR SIMILAR. COLUMNS SHALL BE TELESCOPIC, HINGED OR SIMILAR TO FACILITATE GROUND LEVEL BULB REPLACEMENT. EXACT POSITIONS TBC BASED ON SELECTED PRODUCT(S).

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
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SCALE - 1:200 @ A3

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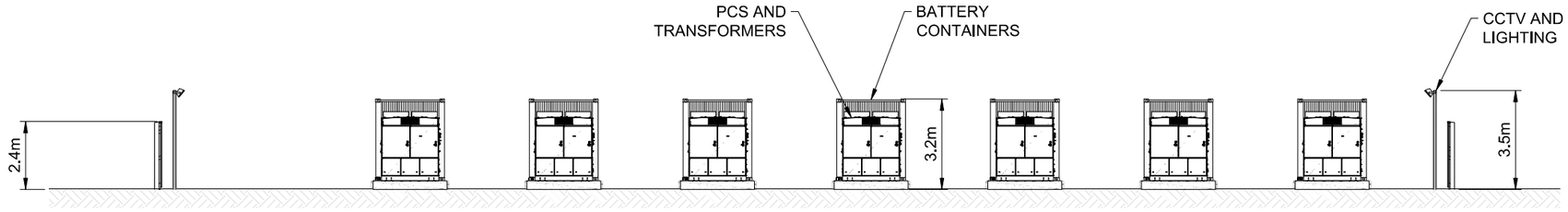
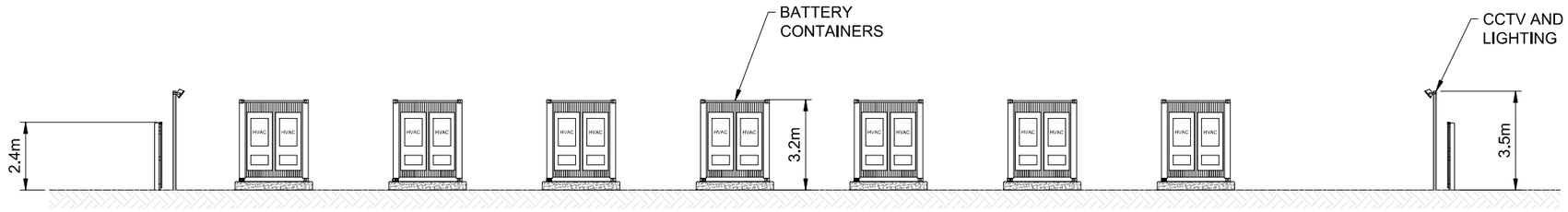
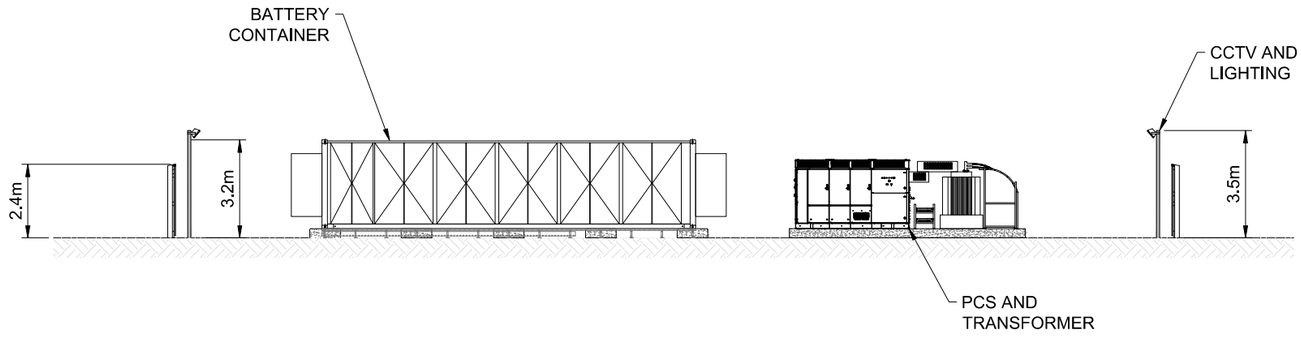


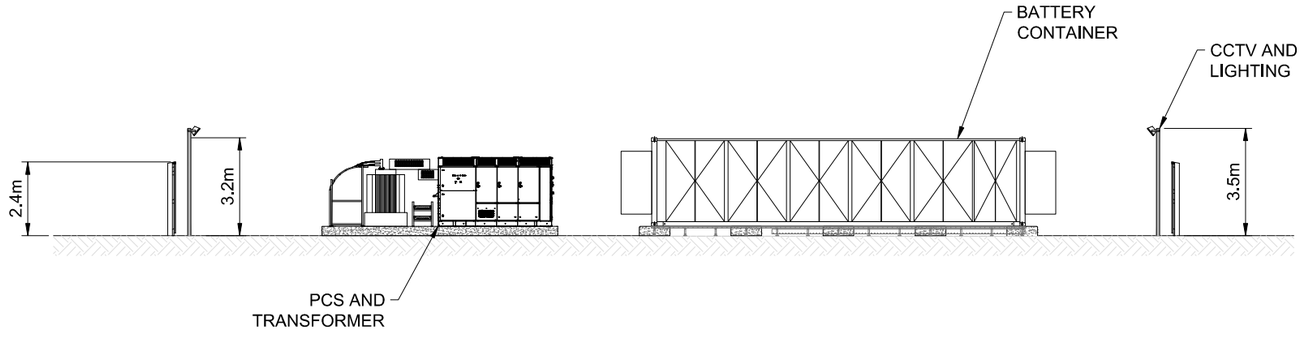
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

SCALE 1:200

KINTRADWELL WIND FARM

FIGURE 2.12

BATTERY STORAGE COMPOUND PLAN AND ELEVATIONS

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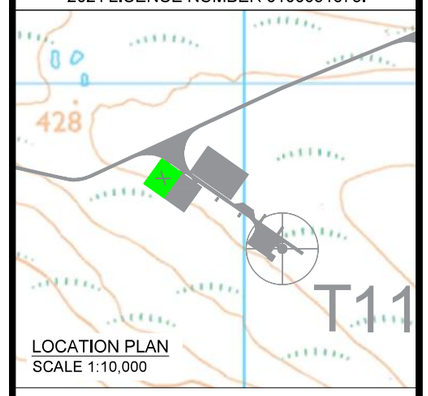
2021 LICENCE NUMBER 0100031673.



LOCATION PLAN
SCALE 1:10,000

KEY:

- INFRASTRUCTURE
- 18-25mm GRADE, 150mm DEEP, CLEAN CRUSHED ROCK
- PALISADE FENCE 2.4m HIGH
- BATTERY STORAGE LOCATION
- MAX. 4.5m HIGH 50W HALIDE LAMP OR SIMILAR. COLUMNS SHALL BE TELESCOPIC, HINGED OR SIMILAR TO FACILITATE GROUND LEVEL BULB REPLACEMENT. EXACT POSITIONS TBC BASED ON SELECTED PRODUCT(S).

Sheet 2 of 3

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-BLD-DR-PT-001

SCALE - 1:200 @ A3

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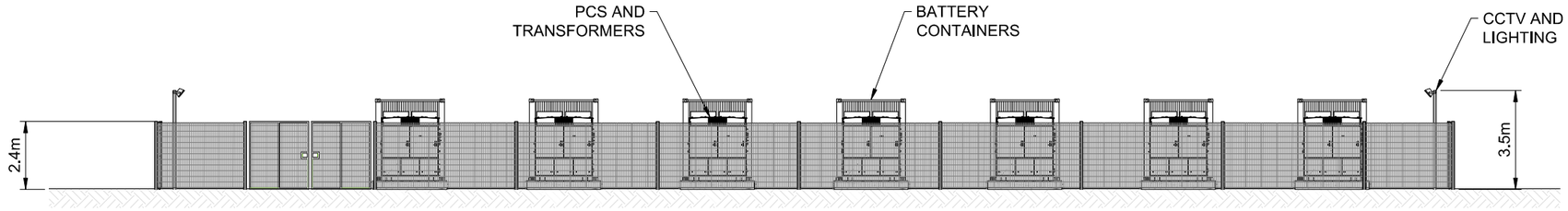
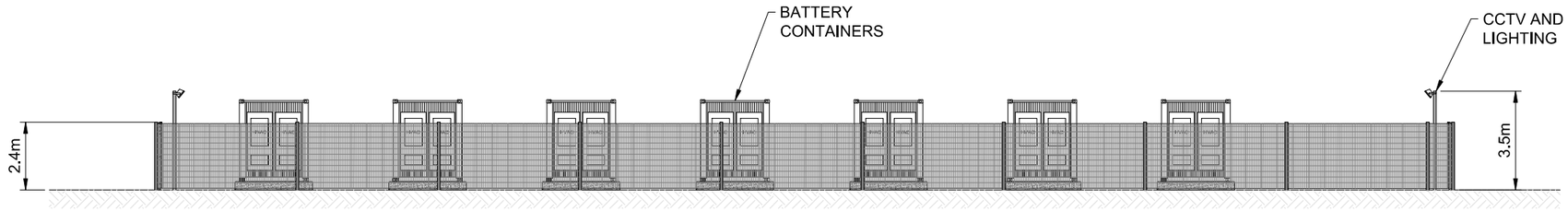
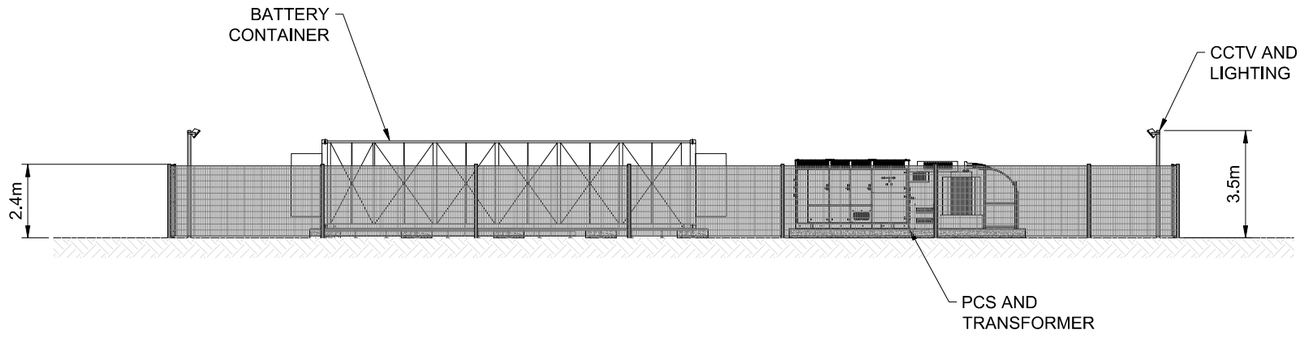


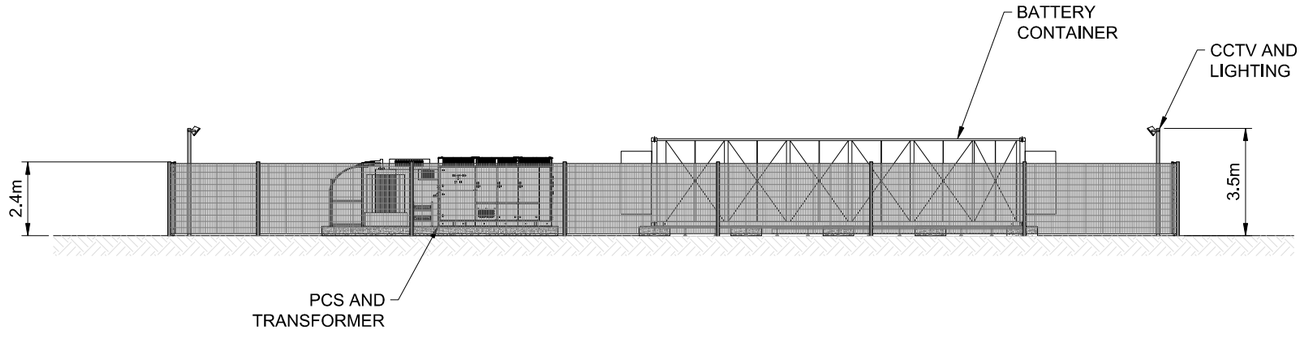
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

SCALE 1:200

KINTRADWELL WIND FARM

FIGURE 2.12

BATTERY STORAGE COMPOUND PLAN AND ELEVATIONS

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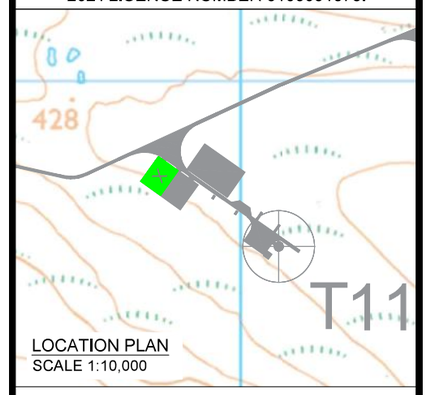

LOCATION PLAN
SCALE 1:10,000

KEY:

- INFRASTRUCTURE
- 18-25mm GRADE, 150mm DEEP, CLEAN CRUSHED ROCK
- PALISADE FENCE 2.4m HIGH
- BATTERY STORAGE LOCATION
- MAX. 4.5m HIGH 50W HALIDE LAMP OR SIMILAR. COLUMNS SHALL BE TELESCOPIC, HINGED OR SIMILAR TO FACILITATE GROUND LEVEL BULB REPLACEMENT. EXACT POSITIONS TBC BASED ON SELECTED PRODUCT(S).

Sheet 3 of 3

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-BLD-DR-PT-001

SCALE - 1:200 @ A3

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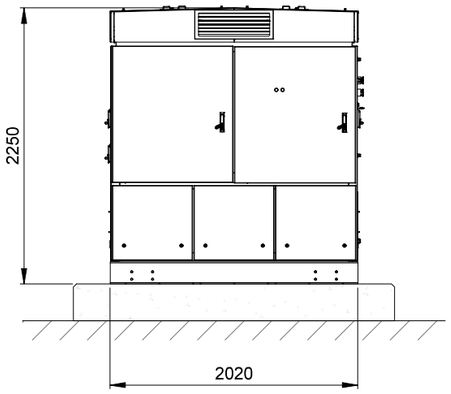
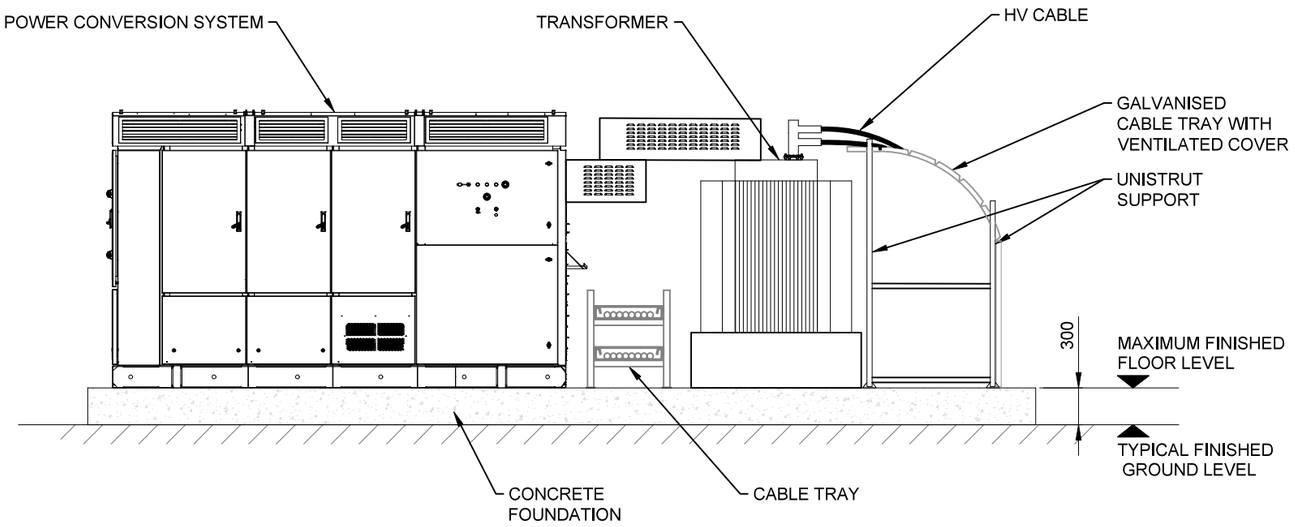
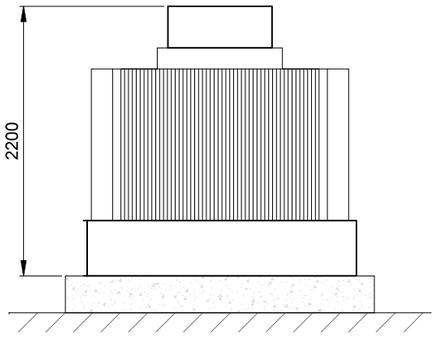


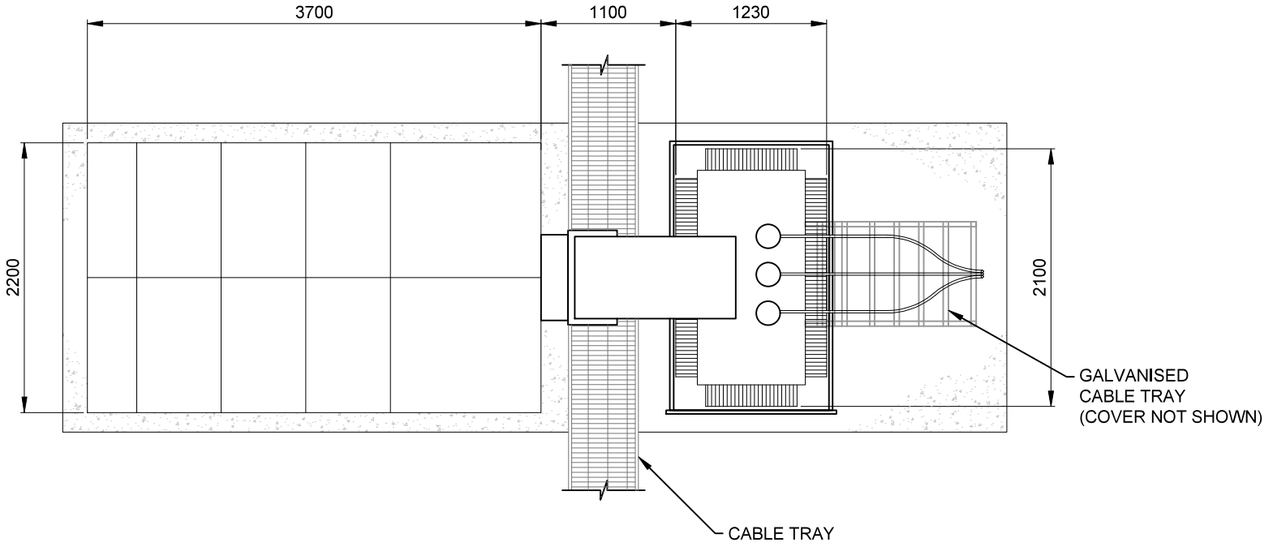
END PCS ELEVATION
SCALE 1:50



SIDE ELEVATION
SCALE 1:50



END TRANSFORMER
ELEVATION
SCALE 1:50



PLAN
SCALE 1:50

KINTRADWELL WIND FARM

FIGURE 2.13

PCS AND TRANSFORMER GENERAL ARRANGEMNT

NOTES:

1. ALL DIMENSIONS ARE TYPICAL MAXIMUM ANTICIPATED AND SUBJECT TO DETAILED DESIGN.
2. SUITABLE SIGNAGE FOR HV ELECTRICAL INSTALLATION TO BE INSTALLED ON EXTERIOR.
3. FOUNDATION SOLUTION, INCLUDING HEIGHTS, IS INDICATIVE AND SUBJECT TO DETAILED DESIGN.
4. DETAILS OF FINISH IN PLANNING APPLICATION DOCUMENTS.

0 1000 2000 3000mm

SCALE 1:50

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-BLD-DR-PT-002

SCALE - 1:50 @ A3

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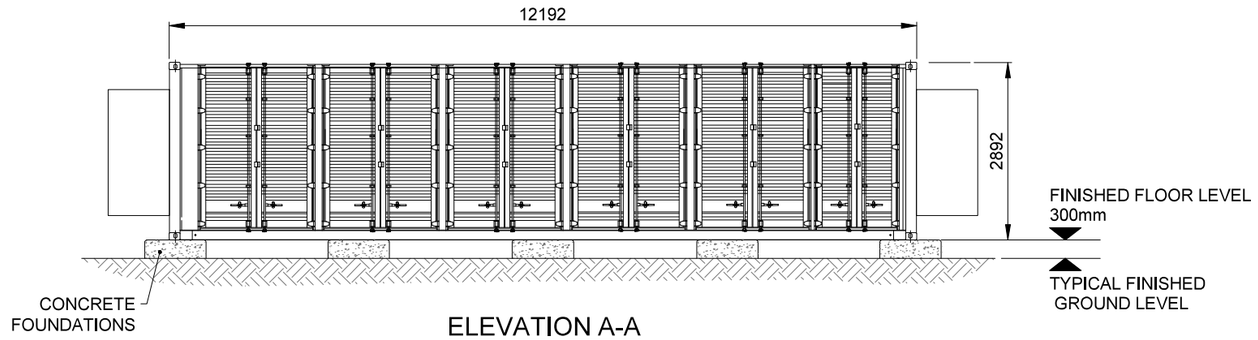
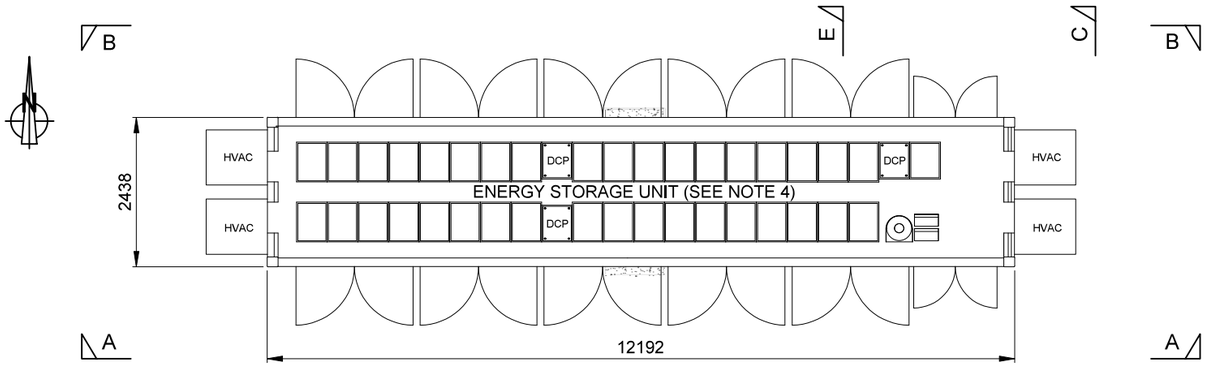
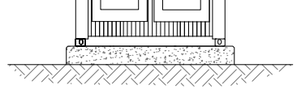


ELEVATION A-A
SCALE 1:100

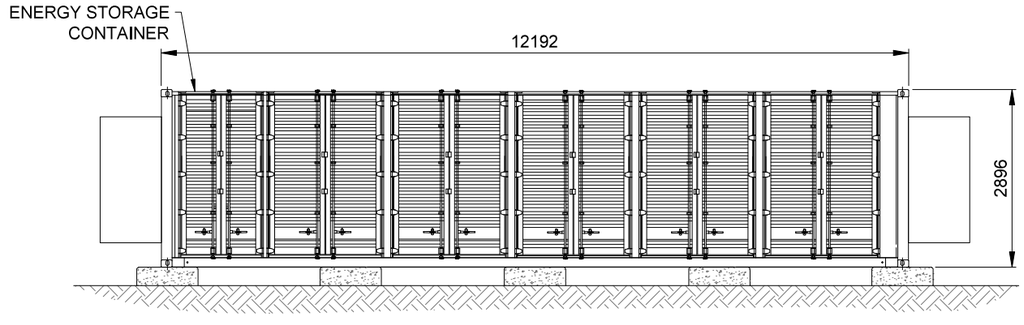
ELEVATION C-C
SCALE 1:100



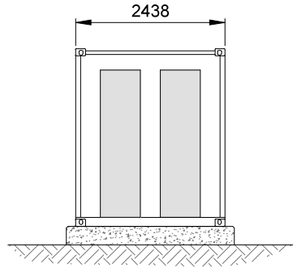
PLAN
SCALE 1:100



ELEVATION D-D
SCALE 1:100



ELEVATION B-B
SCALE 1:100



SECTION E-E
SCALE 1:100

KINTRADWELL WIND FARM

FIGURE 2.14

BATTERY CONTAINER ELEVATION WITH HVAC

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. DOOR AND STEPS POSITIONS ARE INDICATIVE AND SUBJECT TO DETAILED DESIGN.
3. STEPS TO BE EITHER CONSTRUCTED ON SITE FROM MASS CONCRETE, MASONRY BLOCKS, OR PREFABRICATED OFF SITE AND INSTALLED ON SITE FOLLOWING POSITIONING OF THE STORAGE UNIT.
4. THE LOCATION AND SIZE OF ENERGY STORAGE UNIT WITHIN THE CONTAINER TO BE DETERMINED AT DETAILED DESIGN STAGE.
5. DETAILS OF FINISH IN PLANNING APPLICATION DOCUMENTS.
6. LOCATION OF DOORS IS INDICATIVE ONLY. ACCESS TO BATTERIES MAY BE EXTERNAL FROM SIDE DOORS.
7. BATTERY CONTAINER FOUNDATIONS ARE INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN.

0 1000 2000 3000 4000 5000mm

SCALE 1:100

Sheet 1 of 2

OPTION A
ENCLOSURES WITHOUT ACCESS PLATFORM

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
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SCALE - 1:100 @ A3

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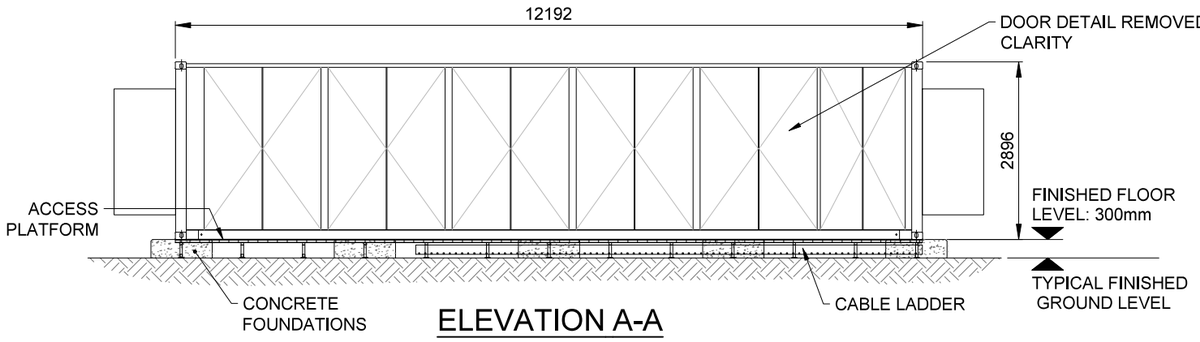
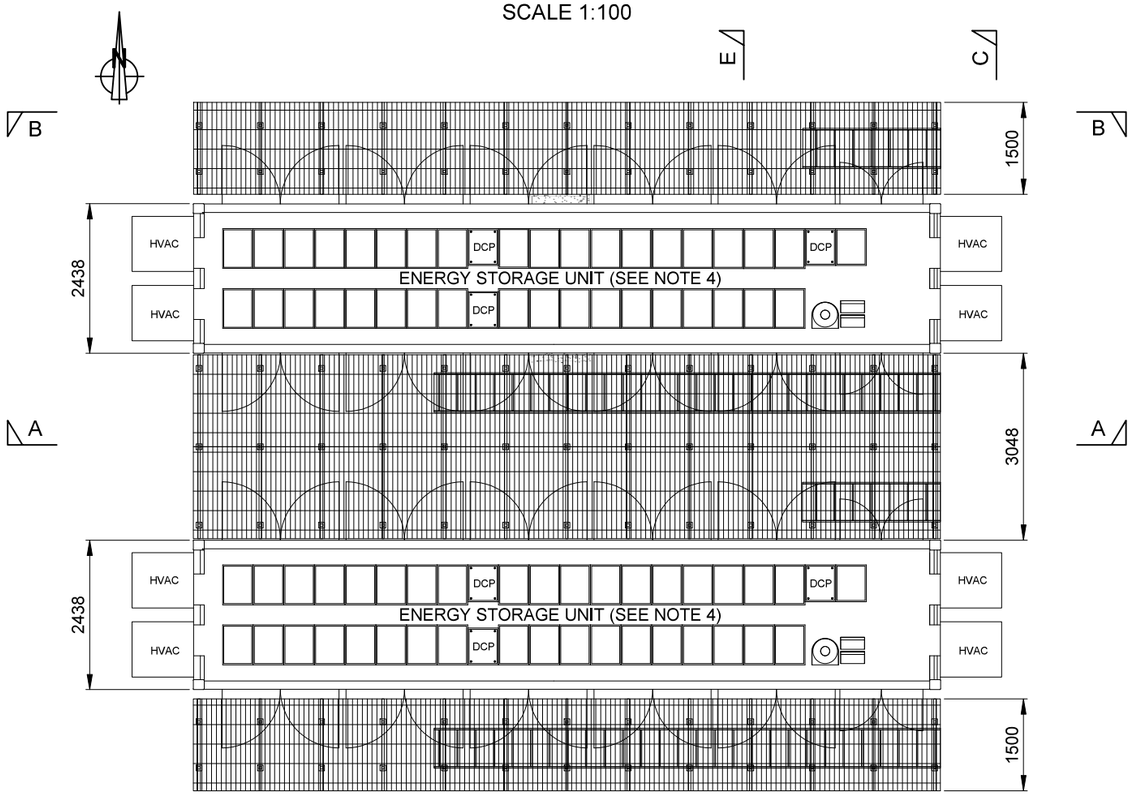
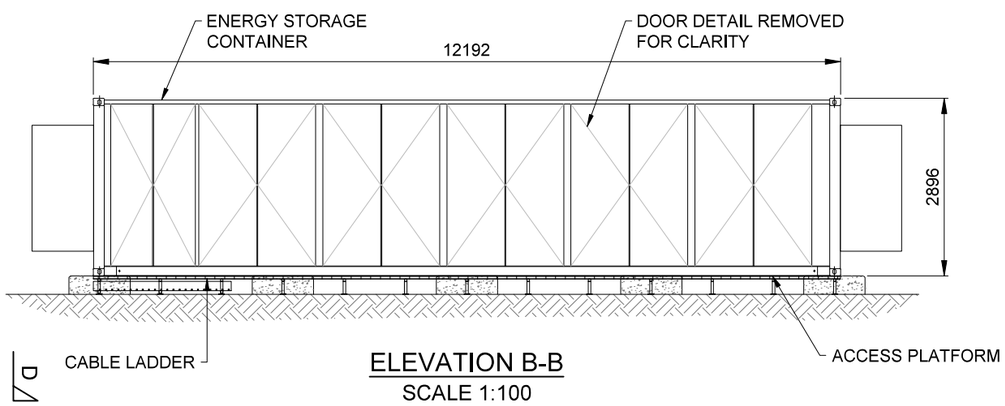


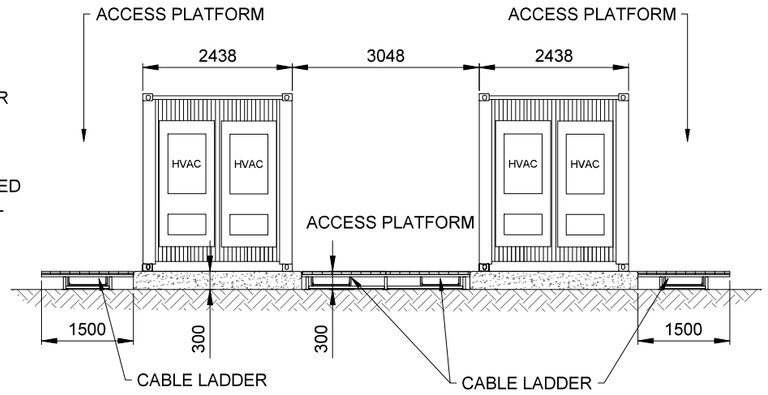
ELEVATION A-A
SCALE 1:100



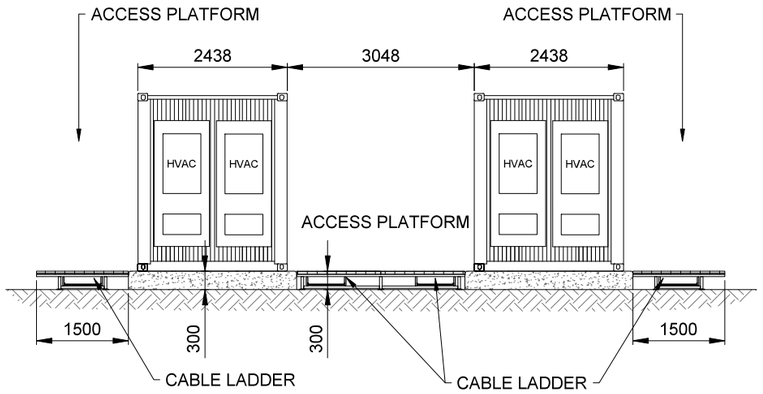
PLAN
SCALE 1:100



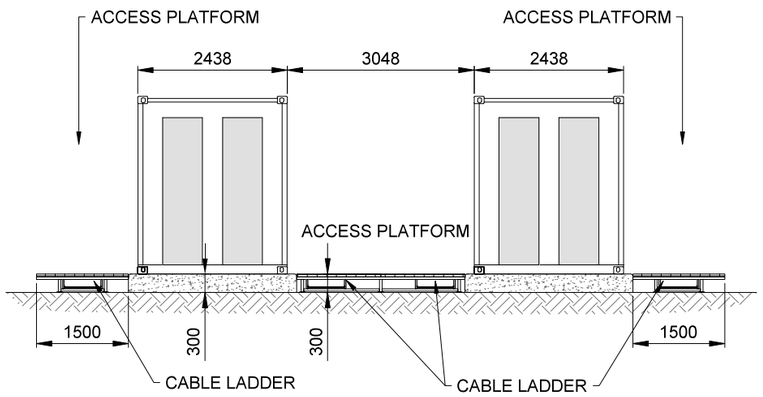
ELEVATION B-B
SCALE 1:100



ELEVATION C-C
SCALE 1:100



ELEVATION D-D
SCALE 1:100



SECTION E-E
SCALE 1:100

KINTRADWELL WIND FARM

FIGURE 2.14

BATTERY CONTAINER ELEVATION WITH HVAC

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. DOOR AND STEPS POSITIONS ARE INDICATIVE AND SUBJECT TO DETAILED DESIGN.
3. STEPS TO BE EITHER CONSTRUCTED ON SITE FROM MASS CONCRETE, MASONRY BLOCKS, OR PREFABRICATED OFF SITE AND INSTALLED ON SITE FOLLOWING POSITIONING OF THE STORAGE UNIT.
4. THE LOCATION AND SIZE OF ENERGY STORAGE UNIT WITHIN THE CONTAINER TO BE DETERMINED AT DETAILED DESIGN STAGE.
5. DETAILS OF FINISH IN PLANNING APPLICATION DOCUMENTS.
6. LOCATION OF DOORS IS INDICATIVE ONLY. ACCESS TO BATTERIES MAY BE EXTERNAL FROM SIDE DOORS.
7. BATTERY CONTAINER FOUNDATIONS ARE INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN.

0 1000 2000 3000 4000 5000mm

SCALE 1:100

Sheet 2 of 2

OPTION B
ENCLOSURES WITH ACCESS PLATFORM

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
03501-RES-BLD-DR-PT-003

SCALE - 1:100 @ A3

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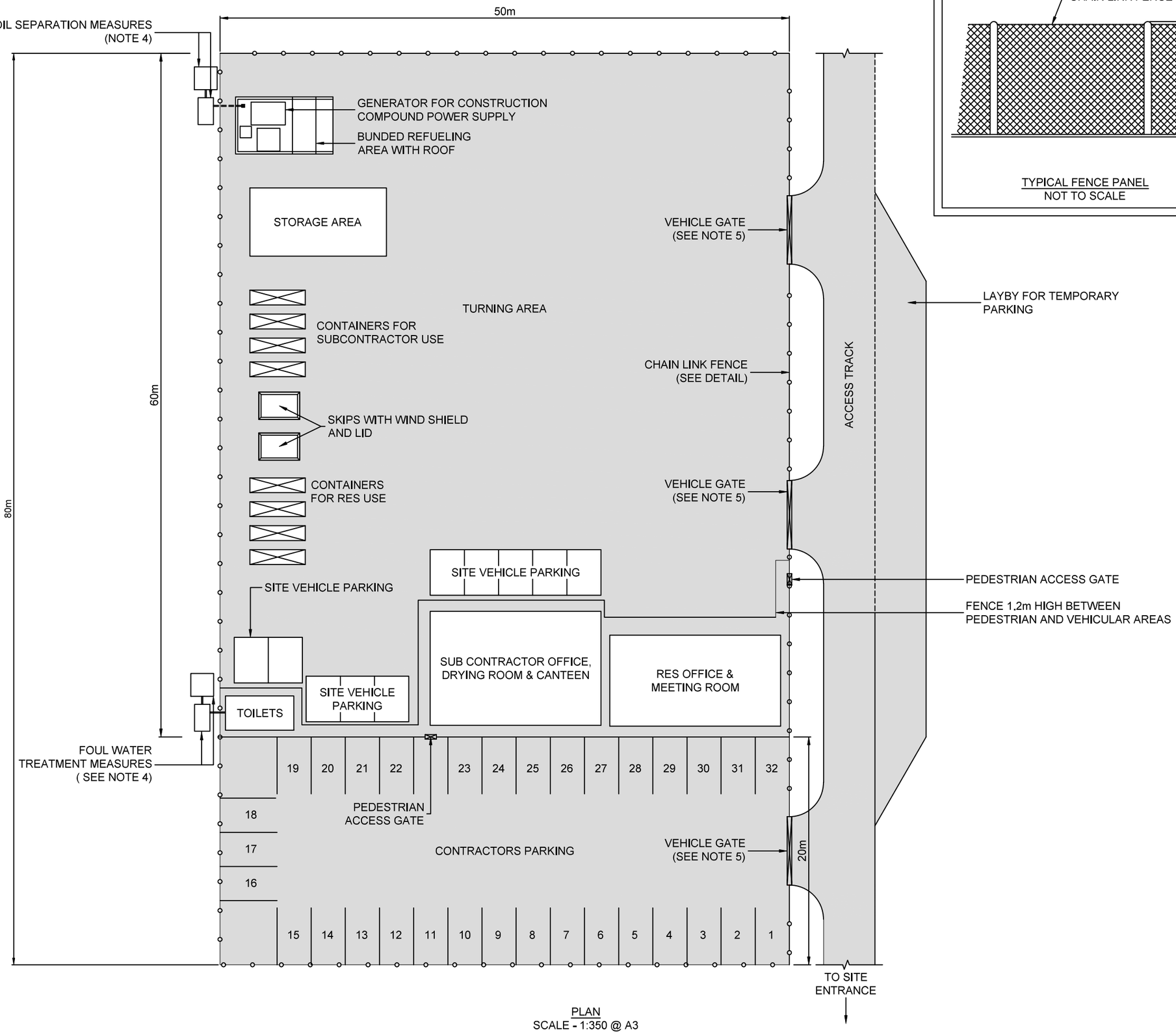
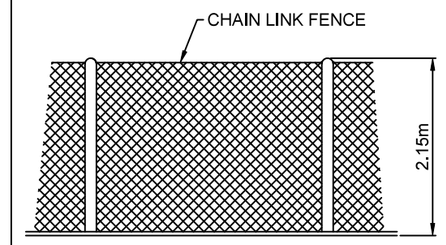


PLAN
SCALE - 1:350 @ A3



TYPICAL FENCE PANEL
NOT TO SCALE

KINTRADWELL WIND FARM

FIGURE 2.15

TYPICAL TEMPORARY CONSTRUCTION COMPOUND LAYOUT

NOTES

1. SIZE, NUMBER AND LOCATION OF COMPOUND EQUIPMENT AND FACILITIES ARE INDICATIVE ONLY.
2. FOLLOWING COMPLETION OF THE WIND FARM, THE CONSTRUCTION COMPOUND WOULD BE RETAINED TO FACILITATE INSTALLATION OF THE BATTERY STORAGE INFRASTRUCTURE. A PERMANENT AREA OF 40x50m WOULD BE REQUIRED FOR THE BATTERY STORAGE COMPOUND (SEE FIGURE 2.12). THE REMAINING AREA WOULD BE USED FOR TEMPORARY CONSTRUCTION ACCESS AND LAYDOWN AND WOULD BE REMOVED AND RESTORED FOLLOWING COMPLETION OF THE BATTERY STORAGE INSTALLATION WORKS.
3. HARDSTANDING TO COMPOUND CONSISTING OF COMPACTED STONE OVER A LAYER OF GEOTEXTILE TO PROVIDE A CLEAN, FIRM, LEVEL AND FREE DRAINING SURFACE SUITABLE FOR CABINS AND HEAVY TRAFFIC.
4. APPROPRIATE MEASURES FOR SEPARATION OF OILS AND TREATMENT OF FOUL WATER TO BE AGREED WITH THE RELEVANT AUTHORITIES.
5. VEHICULAR GATES TO BE 6m WIDE CONSISTING OF 2 x 3m LEAVES

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
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SCALE - 1:350 @ A3

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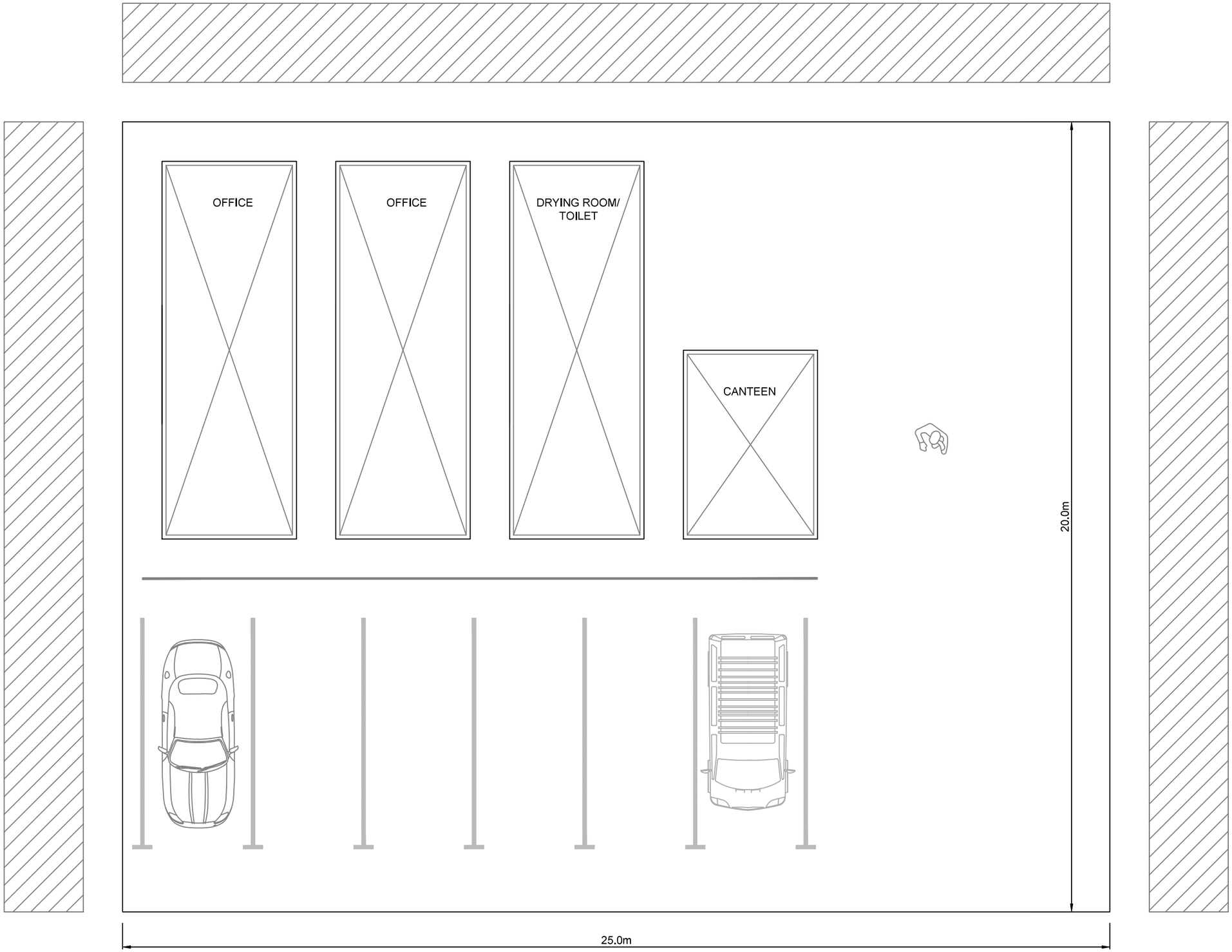

KINTRADWELL WIND FARM

FIGURE 2.16

GATEHOUSE COMPOUND

KEY:

SPOIL BUND

PEDESTRIAN SEGREGATION

NOTES:

- PATHWAY BETWEEN OFFICES & WELFARE TO BE LEVEL

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER

03501-RES-CTN-DR-CO-002

SCALE - 1:100 @ A3

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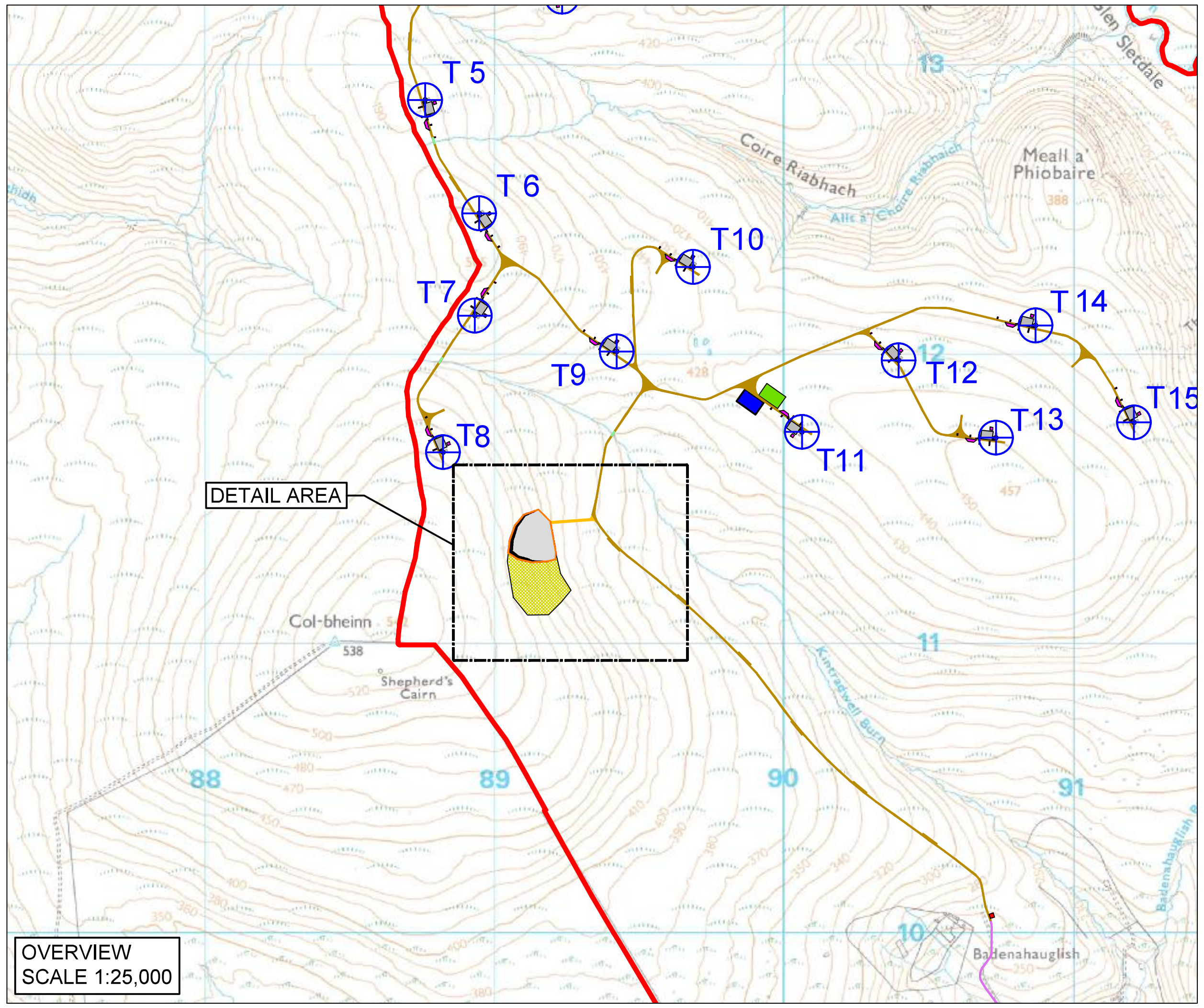

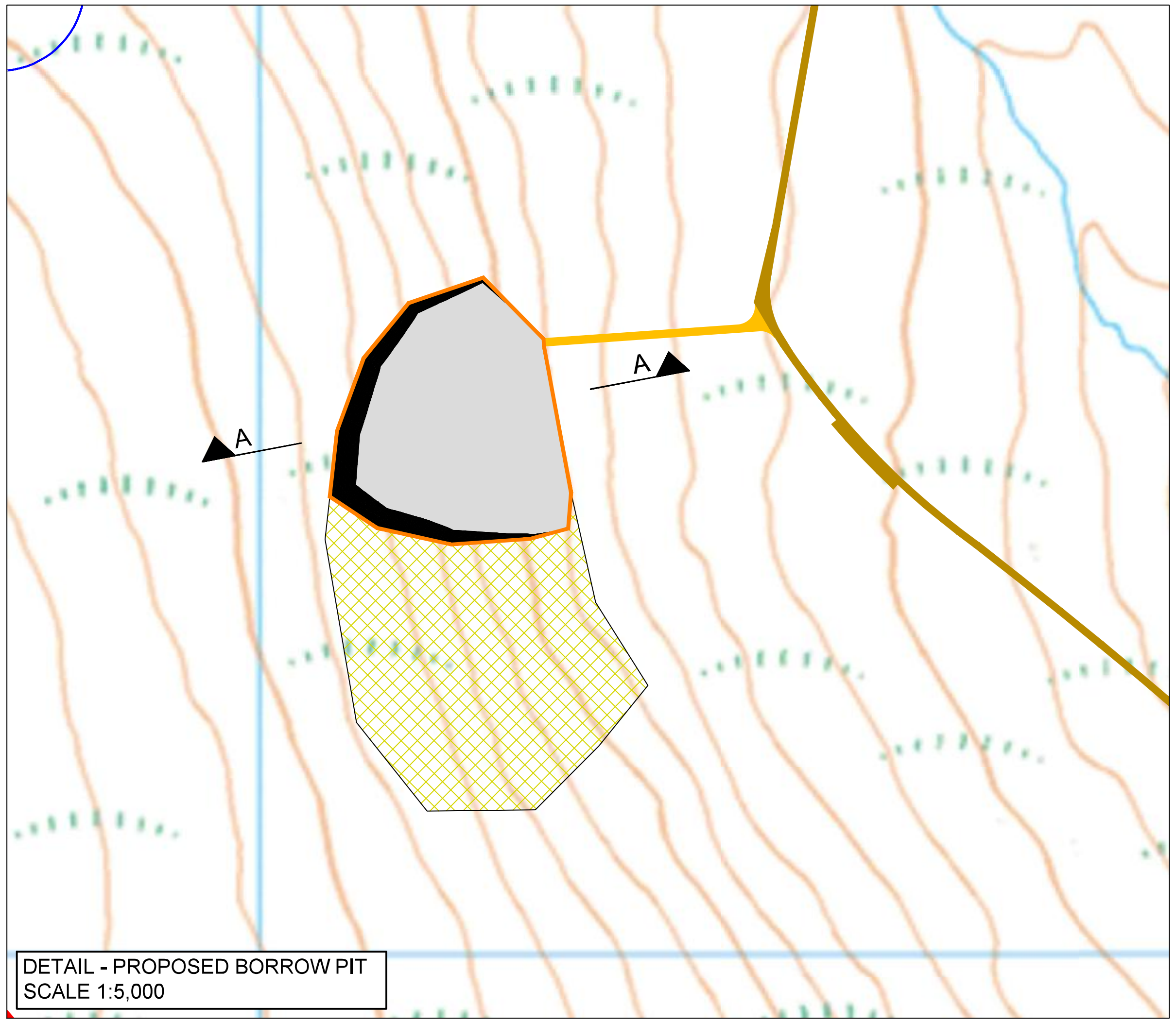

KINTRADWELL WIND FARM

FIGURE 2.17

BORROW PIT GENERAL ARRANGEMENT

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KEY

- BORROW PIT SEARCH AREA
- INDICATIVE BORROW PIT LOCATION

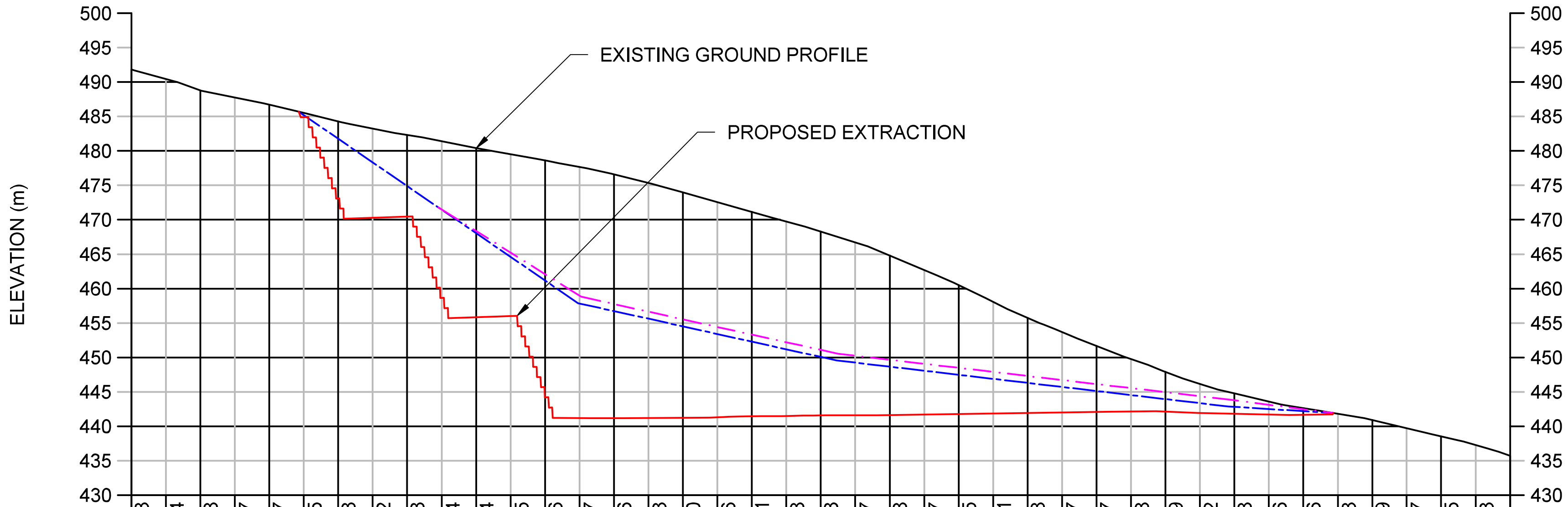
NOTES:

1. FOR SITE INFRASTRUCTURE DETAILS REFER TO DRAWING 03501-RES-LAY-DR-CE-001
2. PLAN AREA AND LOCATION OF BORROW PIT(S) WITHIN SEARCH AREA TO BE CONFIRMED FOLLOWING DETAILED GROUND INVESTIGATION WORKS.
3. OVERBURNED STORAGE ARRANGEMENTS, PEAT MANAGEMENT AND RE-INSTATEMENT PLAN WILL BE DEVELOPED DURING DETAILED DESIGN OF THE BORROW PIT(S) AND IN CONSULTATION WITH SEPA. THE DETAILED DESIGN SHALL TAKE DUE COGNISANCE OF THE MAXIMUM ALLOWABLE PEAT REINSTATEMENT DEPTH WITHIN THE BORROW PIT(S) OF 2m.
4. DETAILS OF SURFACE WATER DRAINAGE, SETTLEMENT PONDS, ETC., TO BE DESIGNED IN CONSULTATION WITH SEPA.
5. PROPOSED EXTRACTION OF STONE TO BE, TYPICALLY, FORMATION OF STEEPLY GRADED 1.5m HIGH FACES AND 0.5m WIDE BENCHES WITH 10m BENCHES EVERY 15m IN DEPTH, ALL SLOPING TO BASE OF THE PIT.
6. TYPICALLY, FACE HEIGHT WILL NOT EXCEED 15m OR 70° SLOPE ANGLE.

KEY

- INDICATIVE PEAT RESTORATION PROFILE
- INDICATIVE RESTORATION PROFILE

PROPOSED BORROW PIT
SECTION A-A



EXISTING GROUND LEVEL (m)	491.8	490.4	488.8	487.7	486.7	485.5	484.3	483.2	482.3	481.4	480.4	479.5	478.6	477.7	476.6	475.3	474.0	472.6	471.1	469.8
INDICATIVE LEVEL (m)						484.9	473.1	470.3	470.5	458.7	455.8	456.0	444.2	441.2	441.2	441.2	441.2	441.3	441.5	441.5
LEVEL DIFFERENCE (m)						-0.6	-11.2	-12.9	-11.9	-22.8	-24.6	-23.5	-34.4	-36.5	-35.4	-34.1	-32.7	-31.2	-29.7	-28.2

EXISTING GROUND LEVEL (m)	468.3	466.7	464.8	462.7	460.5	458.1	455.8	453.7	451.7	449.8	447.9	446.2	444.8	443.6	442.6	441.8	440.9	439.7	438.5	437.3
INDICATIVE LEVEL (m)	441.6	441.6	441.7	441.7	441.8	441.9	441.9	442.0	442.1	442.2	442.2	442.0	441.8	441.7	441.7					
LEVEL DIFFERENCE (m)	-26.7	-25.1	-23.1	-21.0	-18.7	-16.2	-13.8	-11.7	-9.6	-7.6	-5.8	-4.2	-3.0	-1.9	-1.0					

PROFILE VIEW
SCALE 1:1000

LAYOUT DWG N/A	T-LAYOUT NO. N/A

DRAWING NUMBER
03501-RES-ERW-DR-CO-003

SCALE - AS SHOWN @ A3

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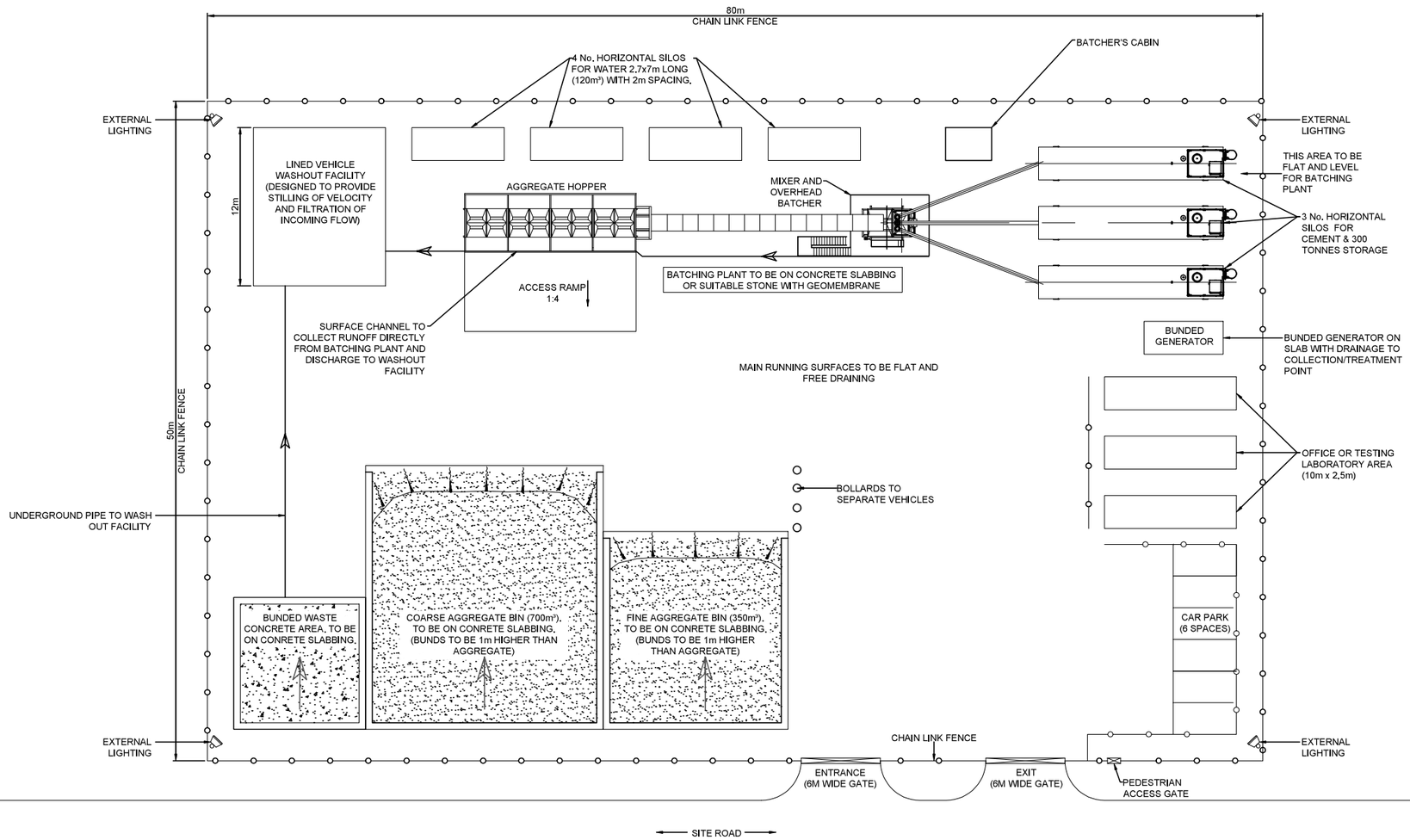

KINTRADWELL WIND FARM

FIGURE 2.18

PROPOSED BATCHING PLANT LAYOUT

NOTES

1. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
2. STRUCTURE TO BE TEMPORARY AND TO BE REMOVED AFTER CONSTRUCTION.
3. SIZE, NUMBER AND LOCATION OF EQUIPMENT AND FACILITIES ARE INDICATIVE ONLY.
4. MATERIAL STORAGE AREAS SHOWN ALLOW THE STORAGE OF MATERIAL FOR APPROXIMATELY FOUR TURBINE BASES.
5. DRAINAGE ARRANGEMENTS WILL BE CONFIRMED WITHIN SUDS DESIGN.

N

LAYOUT DWG	T-LAYOUT NO.
N/A	N/A

DRAWING NUMBER
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SCALE - 1:400 @ A3

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