

**Notes:**

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3. COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
4. THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.

**LEGEND**

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTOKOHU FARMS PROPERTY BOUNDARY
- DENIZE BROTHERS PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXTENT OF EARTHWORK
- PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- INDICATIVE QUARRY SITE
- INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)
- EXISTING SLOPE TRIANGLE GREATER THAN 25°

A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 16.10.18

REV: DESCRIPTION: BY: DATE:  
 STATUS: **RESOURCE CONSENT**

**TEKTUS** Consultants Ltd  
 PO Box 80212 Green Bay  
 Auckland 0643 NZ  
 p. 09 827 1191  
 m. 021 1434 874  
 www.tektus.nz

CLIENT: VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

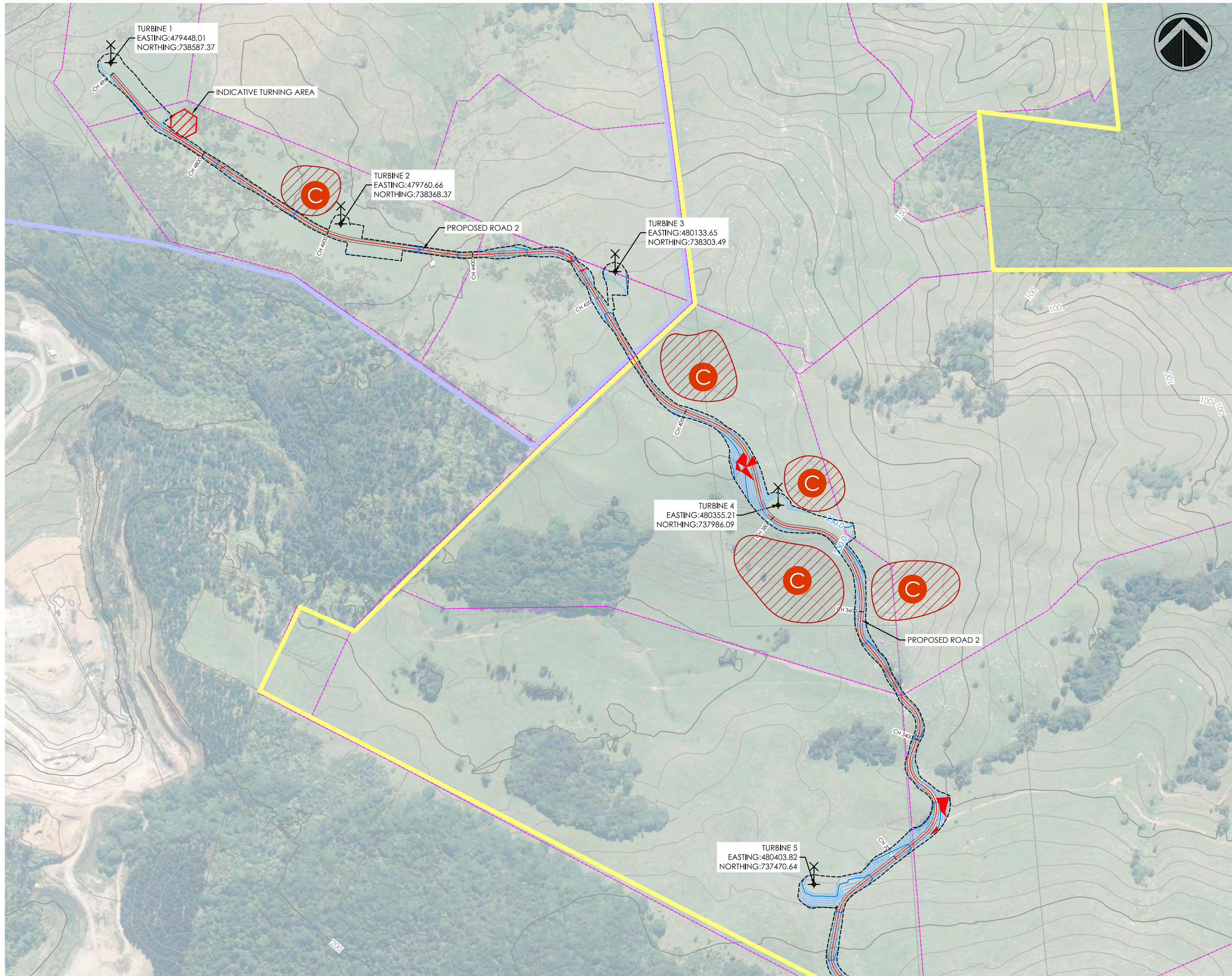
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE: EROSION AND SEDIMENT CONTROL  
 OVERVIEW DETAIL PLAN SHEET 3

SCALE AT A3: 1:5000	DATE: 16.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 250-3	REVISION: A	



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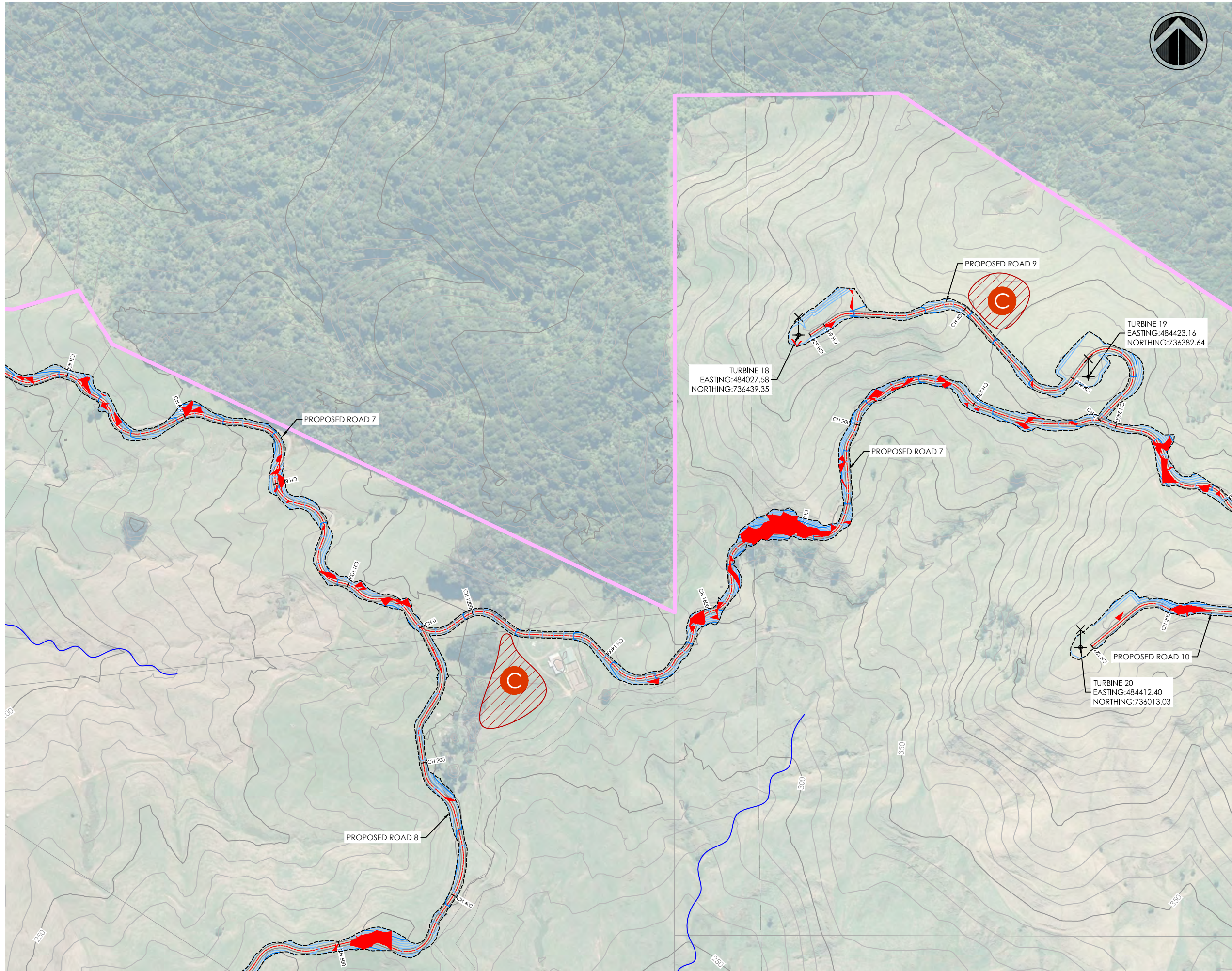
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SITE: KAIMAI WIND FARM  
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 DRAWINGS

SUBTITLE: EROSION AND SEDIMENT CONTROL  
 OVERVIEW DETAIL PLAN SHEET 4

SCALE AT A3: 1:5000	DATE: 16.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 250-4	REVISION: A	



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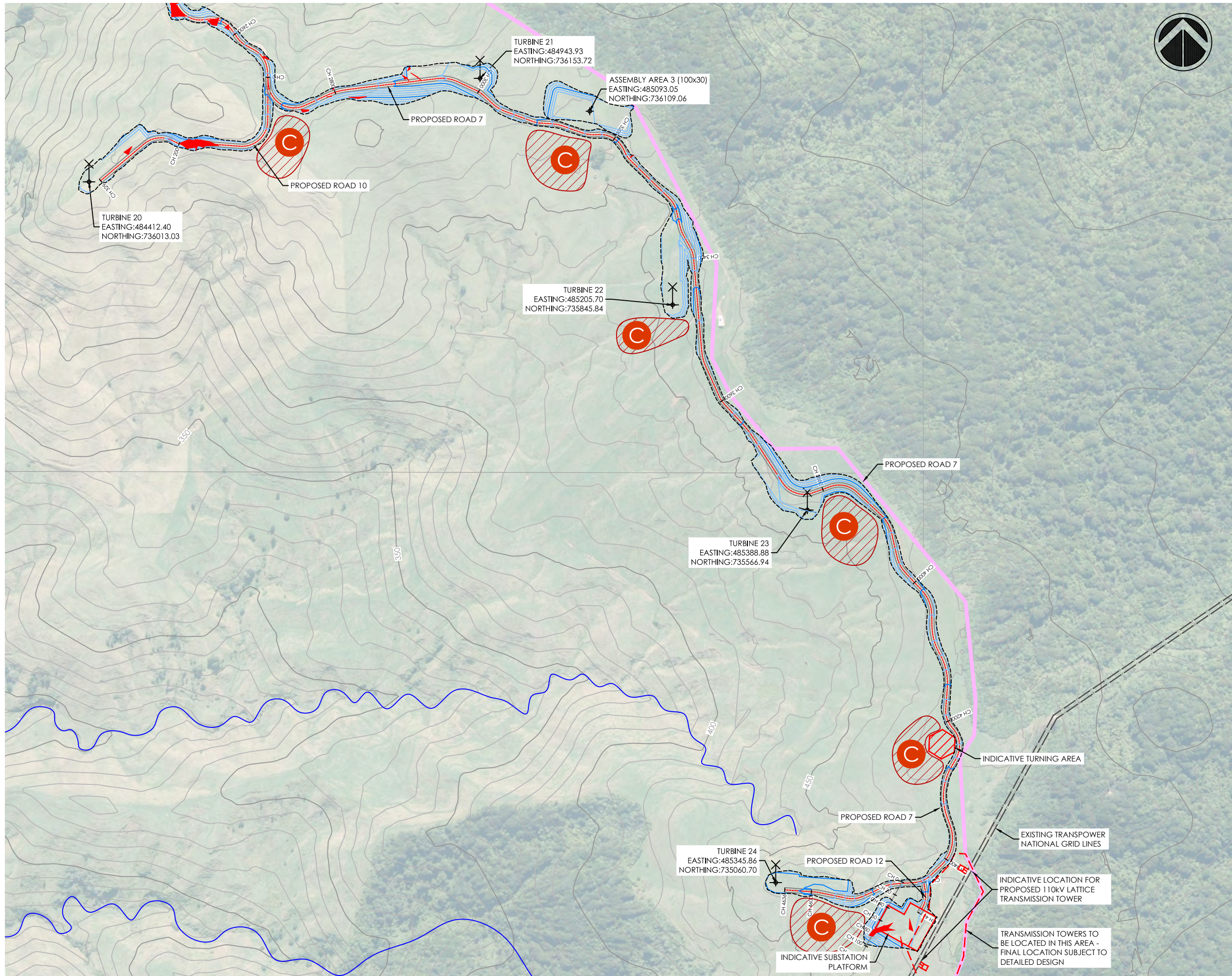
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 DRAWINGS

**SUBTITLE:**  
 EROSION AND SEDIMENT CONTROL  
 OVERVIEW DETAIL PLAN SHEET 5

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:5000	16.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	250-5	A	



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 DRAWINGS

SUBTITLE: EROSION AND SEDIMENT CONTROL  
 OVERVIEW DETAIL PLAN SHEET 6

SCALE AT A3: 1:5000	DATE: 16.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 250-6	REVISION: A	

INDICATIVE LOCATION FOR PROPOSED 110kV LATTICE TRANSMISSION TOWER

TRANSMISSION TOWERS TO BE LOCATED IN THIS AREA - FINAL LOCATION SUBJECT TO DETAILED DESIGN

TURBINE 24  
 EASTING:485345.86  
 NORTHING:735060.70

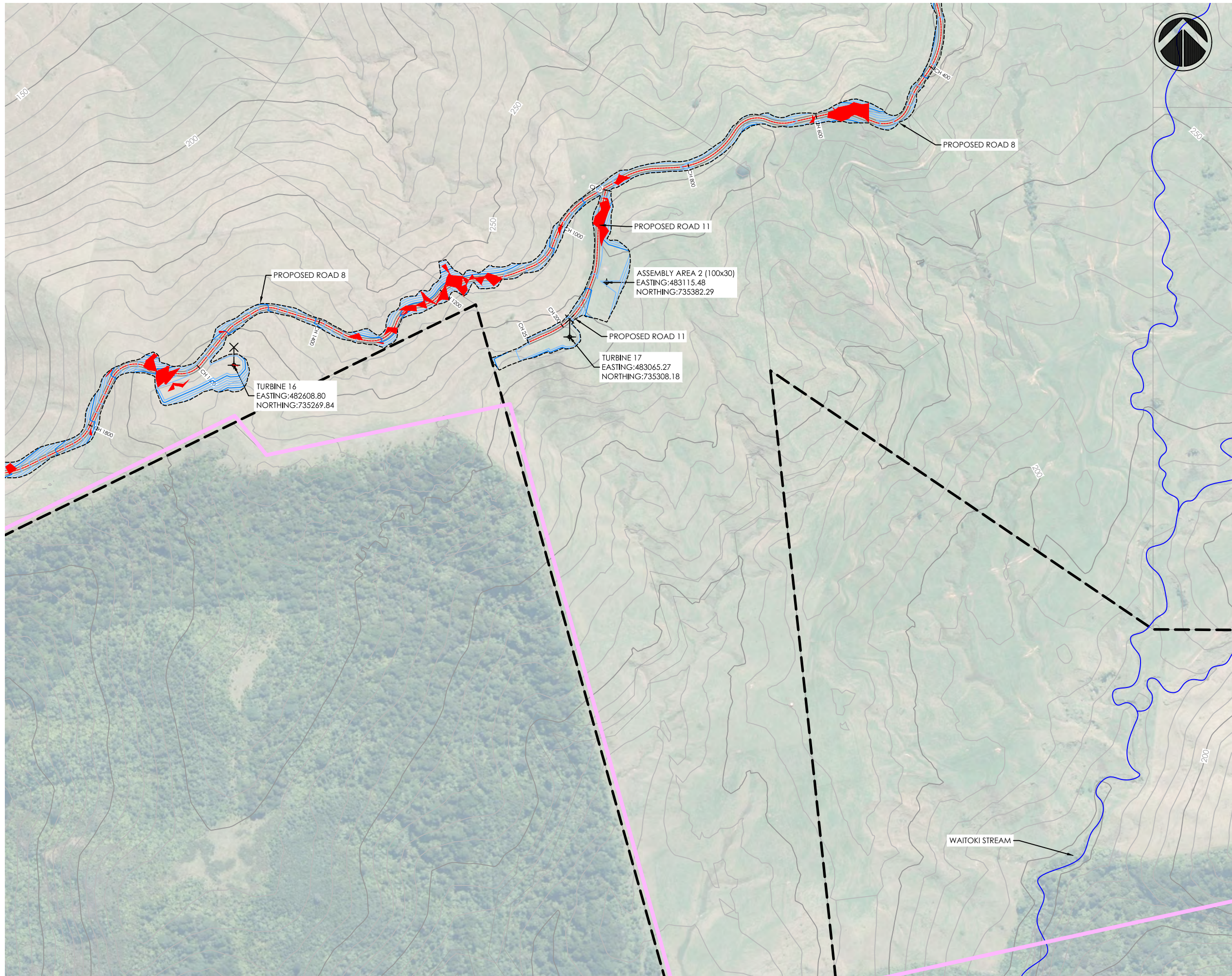
TURBINE 23  
 EASTING:485388.88  
 NORTHING:735566.94

TURBINE 22  
 EASTING:485205.70  
 NORTHING:735845.84

TURBINE 21  
 EASTING:484943.93  
 NORTHING:736153.72

ASSEMBLY AREA 3 (100x30)  
 EASTING:485093.05  
 NORTHING:736109.06

TURBINE 20  
 EASTING:484412.40  
 NORTHING:736013.03



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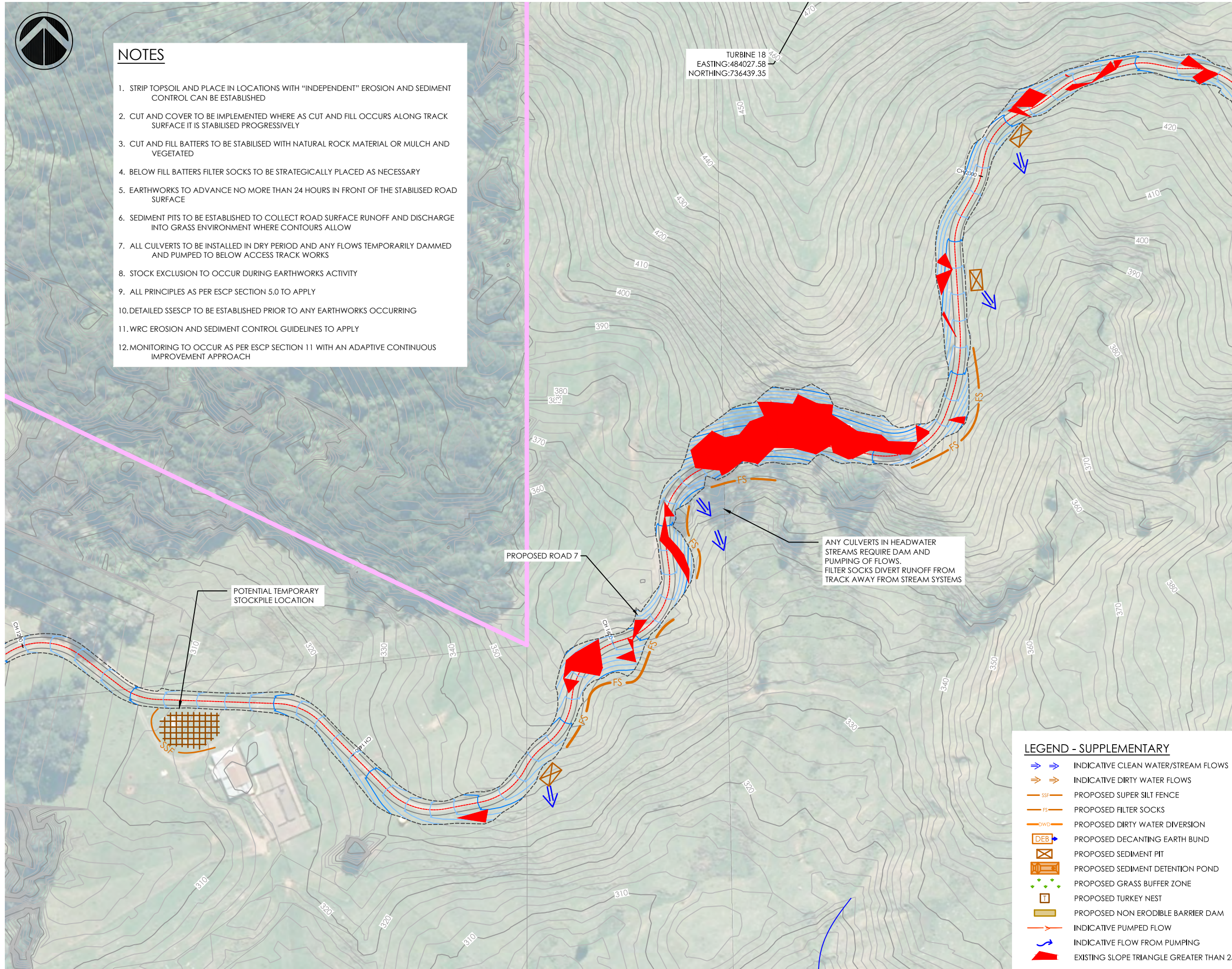
**SUBTITLE:**  
 EROSION AND SEDIMENT CONTROL  
 OVERVIEW DETAIL PLAN SHEET 7

<b>SCALE AT A3:</b> 1:5000	<b>DATE:</b> 16.10.18	<b>DRAWN:</b> LT	<b>CHECKED:</b> JT
<b>PROJECT NO:</b> T15022	<b>DRAWING NO:</b> 250-7	<b>REVISION:</b> A	



### NOTES

1. STRIP TOPSOIL AND PLACE IN LOCATIONS WITH "INDEPENDENT" EROSION AND SEDIMENT CONTROL CAN BE ESTABLISHED
2. CUT AND COVER TO BE IMPLEMENTED WHERE AS CUT AND FILL OCCURS ALONG TRACK SURFACE IT IS STABILISED PROGRESSIVELY
3. CUT AND FILL BATTERS TO BE STABILISED WITH NATURAL ROCK MATERIAL OR MULCH AND VEGETATED
4. BELOW FILL BATTERS FILTER SOCKS TO BE STRATEGICALLY PLACED AS NECESSARY
5. EARTHWORKS TO ADVANCE NO MORE THAN 24 HOURS IN FRONT OF THE STABILISED ROAD SURFACE
6. SEDIMENT PITS TO BE ESTABLISHED TO COLLECT ROAD SURFACE RUNOFF AND DISCHARGE INTO GRASS ENVIRONMENT WHERE CONTOURS ALLOW
7. ALL CULVERTS TO BE INSTALLED IN DRY PERIOD AND ANY FLOWS TEMPORARILY DAMMED AND PUMPED TO BELOW ACCESS TRACK WORKS
8. STOCK EXCLUSION TO OCCUR DURING EARTHWORKS ACTIVITY
9. ALL PRINCIPLES AS PER ESCP SECTION 5.0 TO APPLY
10. DETAILED SSSCP TO BE ESTABLISHED PRIOR TO ANY EARTHWORKS OCCURRING
11. WRC EROSION AND SEDIMENT CONTROL GUIDELINES TO APPLY
12. MONITORING TO OCCUR AS PER ESCP SECTION 11 WITH AN ADAPTIVE CONTINUOUS IMPROVEMENT APPROACH



TURBINE 18  
EASTING: 484027.58  
NORTHING: 736439.35

PROPOSED ROAD 7

ANY CULVERTS IN HEADWATER STREAMS REQUIRE DAM AND PUMPING OF FLOWS. FILTER SOCKS DIVERT RUNOFF FROM TRACK AWAY FROM STREAM SYSTEMS

POTENTIAL TEMPORARY STOCKPILE LOCATION

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A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 05.10.18

REV: DESCRIPTION: BY: DATE:  
STATUS: **RESOURCE CONSENT**

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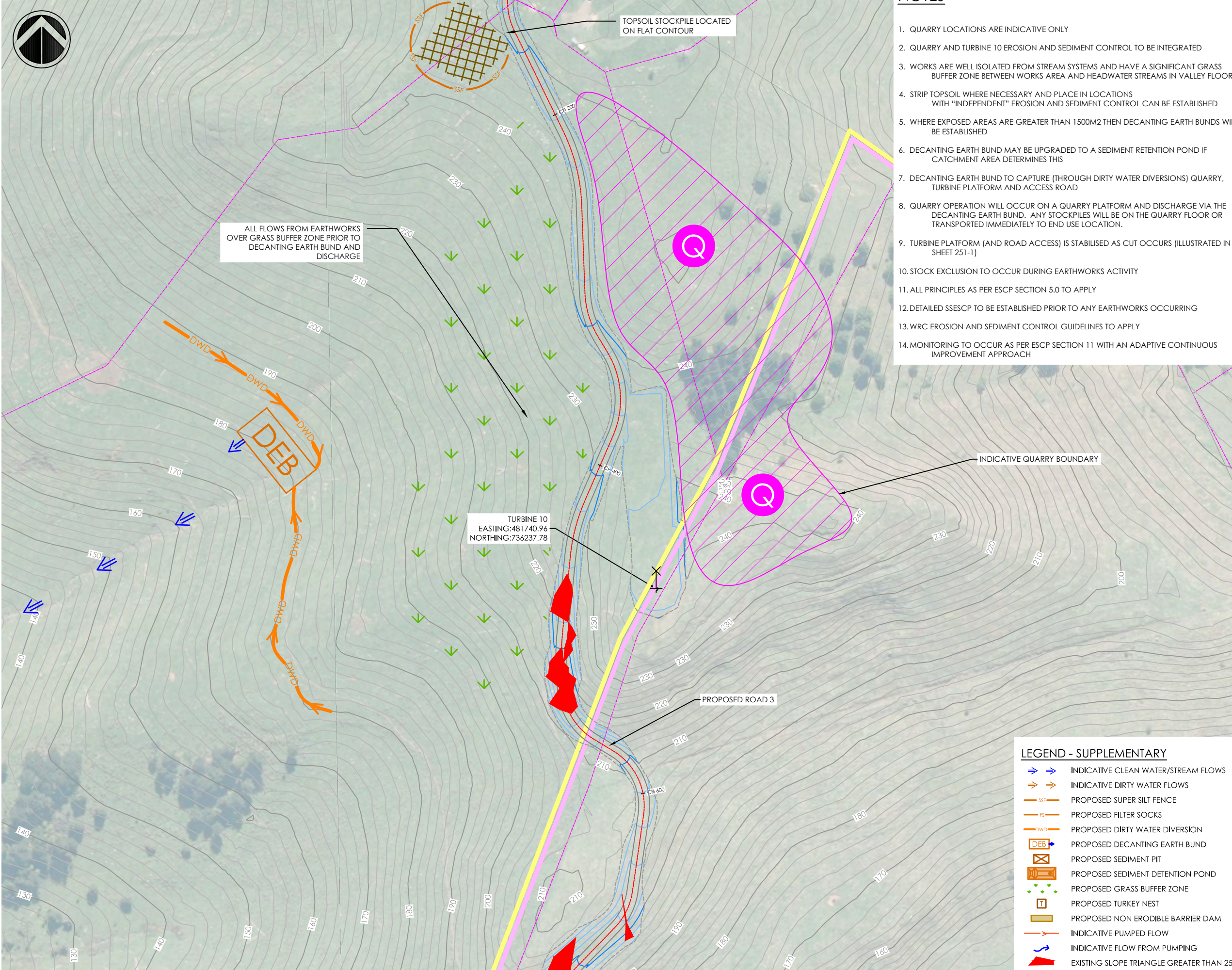
TITLE: PRELIMINARY CIVIL ENGINEERING  
DRAWINGS

SUBTITLE: EROSION AND SEDIMENT CONTROL  
DETAIL SHEET 1 - ACCESS TRACK  
ESTABLISHMENT - INDICATIVE ONLY

SCALE AT A3: 1:2000 DATE: 05.10.18 DRAWN: LT CHECKED: JT  
PROJECT NO: T15022 DRAWING NO: 251-1 REVISION: A

### LEGEND - SUPPLEMENTARY

- INDICATIVE CLEAN WATER/STREAM FLOWS
- INDICATIVE DIRTY WATER FLOWS
- PROPOSED SUPER SILT FENCE
- PROPOSED FILTER SOCKS
- PROPOSED DIRTY WATER DIVERSION
- PROPOSED DECANTING EARTH BUND
- PROPOSED SEDIMENT PIT
- PROPOSED SEDIMENT DETENTION POND
- PROPOSED GRASS BUFFER ZONE
- PROPOSED TURKEY NEST
- PROPOSED NON ERODIBLE BARRIER DAM
- INDICATIVE PUMPED FLOW
- INDICATIVE FLOW FROM PUMPING
- EXISTING SLOPE TRIANGLE GREATER THAN 25°



**NOTES**

1. QUARRY LOCATIONS ARE INDICATIVE ONLY
2. QUARRY AND TURBINE 10 EROSION AND SEDIMENT CONTROL TO BE INTEGRATED
3. WORKS ARE WELL ISOLATED FROM STREAM SYSTEMS AND HAVE A SIGNIFICANT GRASS BUFFER ZONE BETWEEN WORKS AREA AND HEADWATER STREAMS IN VALLEY FLOOR
4. STRIP TOPSOIL WHERE NECESSARY AND PLACE IN LOCATIONS WITH "INDEPENDENT" EROSION AND SEDIMENT CONTROL CAN BE ESTABLISHED
5. WHERE EXPOSED AREAS ARE GREATER THAN 1500M2 THEN DECANTING EARTH BUNDS WILL BE ESTABLISHED
6. DECANTING EARTH BUND MAY BE UPGRADED TO A SEDIMENT RETENTION POND IF CATCHMENT AREA DETERMINES THIS
7. DECANTING EARTH BUND TO CAPTURE (THROUGH DIRTY WATER DIVERSIONS) QUARRY, TURBINE PLATFORM AND ACCESS ROAD
8. QUARRY OPERATION WILL OCCUR ON A QUARRY PLATFORM AND DISCHARGE VIA THE DECANTING EARTH BUND. ANY STOCKPILES WILL BE ON THE QUARRY FLOOR OR TRANSPORTED IMMEDIATELY TO END USE LOCATION.
9. TURBINE PLATFORM (AND ROAD ACCESS) IS STABILISED AS CUT OCCURS (ILLUSTRATED IN SHEET 251-1)
10. STOCK EXCLUSION TO OCCUR DURING EARTHWORKS ACTIVITY
11. ALL PRINCIPLES AS PER ESCP SECTION 5.0 TO APPLY
12. DETAILED SSESCP TO BE ESTABLISHED PRIOR TO ANY EARTHWORKS OCCURRING
13. WRC EROSION AND SEDIMENT CONTROL GUIDELINES TO APPLY
14. MONITORING TO OCCUR AS PER ESCP SECTION 11 WITH AN ADAPTIVE CONTINUOUS IMPROVEMENT APPROACH

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A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	05.10.18
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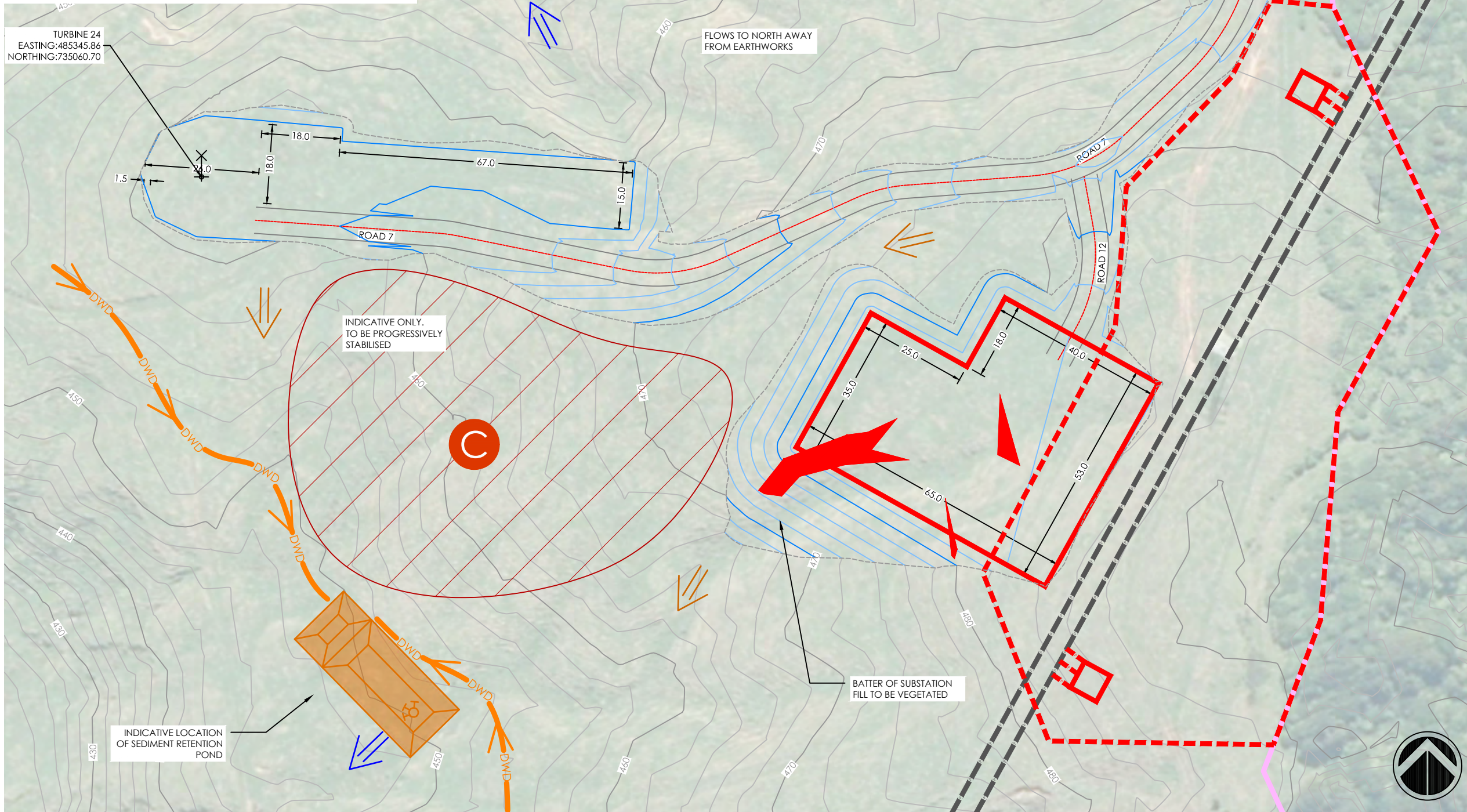
**TITLE:** PRELIMINARY CIVIL ENGINEERING  
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**SUBTITLE:** EROSION AND SEDIMENT CONTROL  
 DETAIL SHEET 2 - QUARRY AND TURBINE  
 ESTABLISHMENT - INDICATIVE ONLY

<b>SCALE AT A3:</b> 1:2000	<b>DATE:</b> 05.10.18	<b>DRAWN:</b> LT	<b>CHECKED:</b> JT
<b>PROJECT NO:</b> T15022	<b>DRAWING NO:</b> 251-2		<b>REVISION:</b> A

**NOTES**

1. SUBSTATION AND TURBINE 24 EROSION AND SEDIMENT CONTROL TO BE INTEGRATED
2. STRIP TOPSOIL WHERE NECESSARY AND PLACE IN LOCATIONS WITH "INDEPENDENT" EROSION AND SEDIMENT CONTROL CAN BE ESTABLISHED
3. SEDIMENT RETENTION POND TO BE ESTABLISHED WITH DIRTY WATER DIVERSION TAKING FLOWS TO SRP
4. TURBINE IS ALL IN CUT MATERIAL AND WILL BE STABILISED AS CUT PROGRESSES
5. SUBSTATION PLATFORM WILL BE STABILISED ON COMPLETION
6. TOTAL WORKS AREA INCLUDING ACCESS ROAD AND ANCILLARY ACTIVITIES CAN ALL DISCHARGE TO SRP
7. FILL SITE AS SHOWN INDICATIVE ONLY AND WILL BE ESTABLISHED WITH MAXIMUM BATTER SLOPES OF 25DEGREES TO MINIMISE EROSION AND ALLOW FUTURE STOCK GRAZING
8. STOCK EXCLUSION TO OCCUR DURING EARTHWORKS ACTIVITY
9. ALL PRINCIPLES AS PER ESCP SECTION 5.0 TO APPLY
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  - PROPOSED DECANTING EARTH BUND
  - PROPOSED SEDIMENT PIT
  - PROPOSED SEDIMENT DETENTION POND
  - PROPOSED GRASS BUFFER ZONE
  - PROPOSED TURKEY NEST
  - PROPOSED NON ERODIBLE BARRIER DAM
  - INDICATIVE PUMPED FLOW
  - INDICATIVE FLOW FROM PUMPING
  - EXISTING SLOPE TRIANGLE GREATER THAN 25°

**Notes:**

1. FOR INFORMATION PURPOSES ONLY.
2. BOUNDARIES, CONTOURS AND OTHER BASE INFORMATION SHOWN IS INDICATIVE ONLY AND PRIMARILY INFORMED BY AERIAL LIDAR SURVEY BY SYNERGY POSITIONING SYSTEMS LTD IN APRIL 2016.
3. COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
4. THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.

- LEGEND**
- EXISTING PARCEL BOUNDARY
  - JACKSON PROPERTY BOUNDARY
  - ROKOKOHU FARMS PROPERTY BOUNDARY
  - DENIZE BROTHERS PROPERTY BOUNDARY
  - HDC/MPDC TERRITORIAL BOUNDARY
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - EXTENT OF EARTHWORK
  - PROPOSED TURBINE LOCATION
  - EXISTING TRANSPOWER NATIONAL GRID LINES
  - PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
  - EXISTING FENCE
  - INDICATIVE QUARRY SITE
  - INDICATIVE CLEANFILL SITE
  - EXISTING CULVERT
  - PROPOSED UPGRADED CULVERT
  - STREAM (WRC REGIONAL MAP)

A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 05.10.18

REV:	DESCRIPTION:	BY:	DATE:
STATUS: <b>RESOURCE CONSENT</b>			

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**CLIENT:** VENTUS ENERGY (NZ) LTD  
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 AUCKLAND 0632

**SURVEYOR:** SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

**SITE:** KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

**TITLE:** PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

**SUBTITLE:** EROSION AND SEDIMENT CONTROL  
 DETAIL SHEET 3 - SUBSTATION AND TURBINE  
 ESTABLISHMENT - INDICATIVE ONLY

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	05.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	251-3	A	