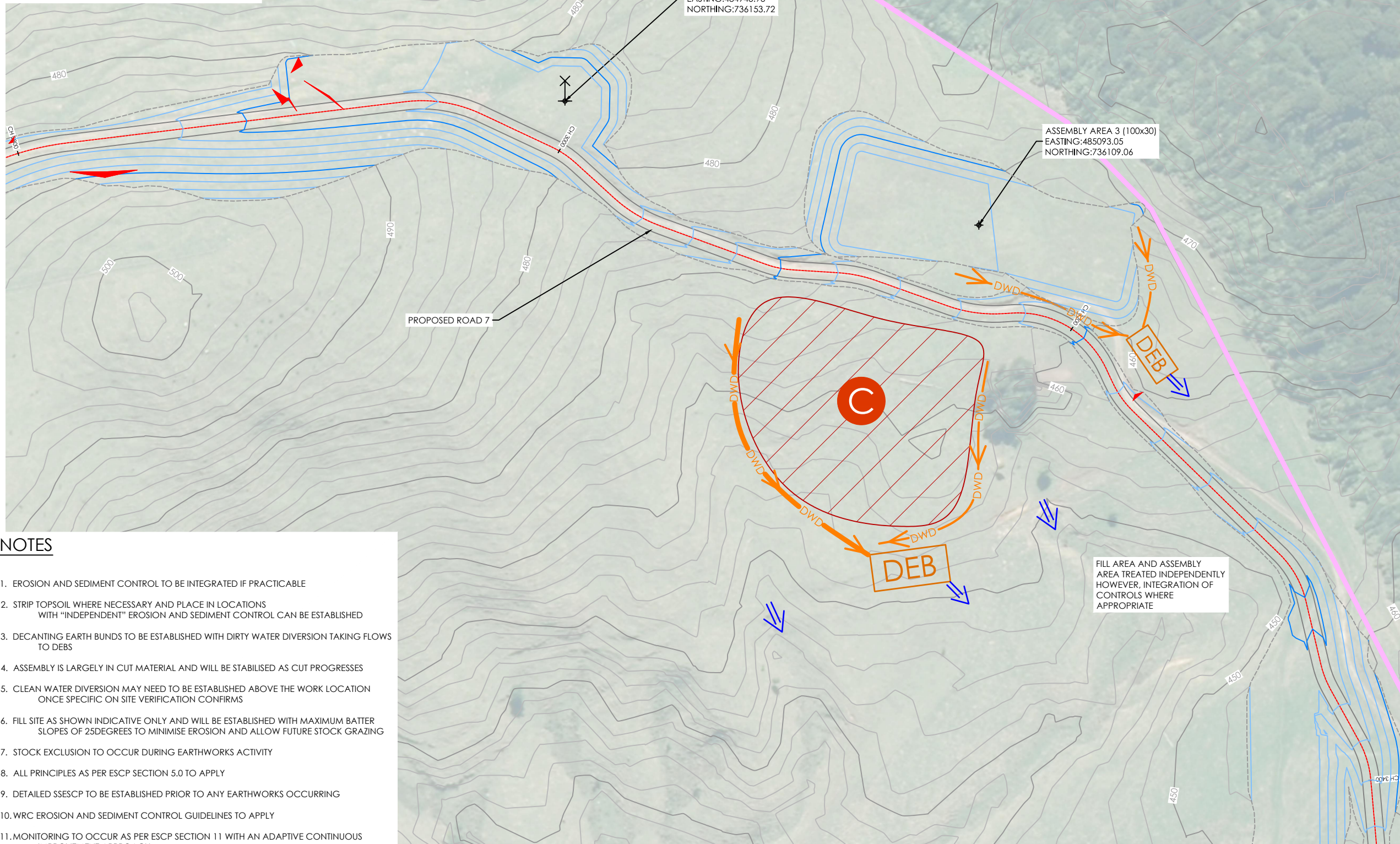


LEGEND - SUPPLEMENTARY

- 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. EROSION AND SEDIMENT CONTROL TO BE INTEGRATED IF PRACTICABLE
2. STRIP TOPSOIL WHERE NECESSARY AND PLACE IN LOCATIONS WITH "INDEPENDENT" EROSION AND SEDIMENT CONTROL CAN BE ESTABLISHED
3. DECANTING EARTH BUNDS TO BE ESTABLISHED WITH DIRTY WATER DIVERSION TAKING FLOWS TO DEBS
4. ASSEMBLY IS LARGELY IN CUT MATERIAL AND WILL BE STABILISED AS CUT PROGRESSES
5. CLEAN WATER DIVERSION MAY NEED TO BE ESTABLISHED ABOVE THE WORK LOCATION ONCE SPECIFIC ON SITE VERIFICATION CONFIRMS
6. FILL SITE AS SHOWN INDICATIVE ONLY AND WILL BE ESTABLISHED WITH MAXIMUM BATTER SLOPES OF 25DEGREES TO MINIMISE EROSION AND ALLOW FUTURE STOCK GRAZING
7. STOCK EXCLUSION TO OCCUR DURING EARTHWORKS ACTIVITY
8. ALL PRINCIPLES AS PER ESCP SECTION 5.0 TO APPLY
9. DETAILED SSCP TO BE ESTABLISHED PRIOR TO ANY EARTHWORKS OCCURRING
10. WRC EROSION AND SEDIMENT CONTROL GUIDELINES TO APPLY
11. MONITORING TO OCCUR AS PER ESCP SECTION 11 WITH AN ADAPTIVE CONTINUOUS IMPROVEMENT APPROACH

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
- 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)

A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 05.10.18

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

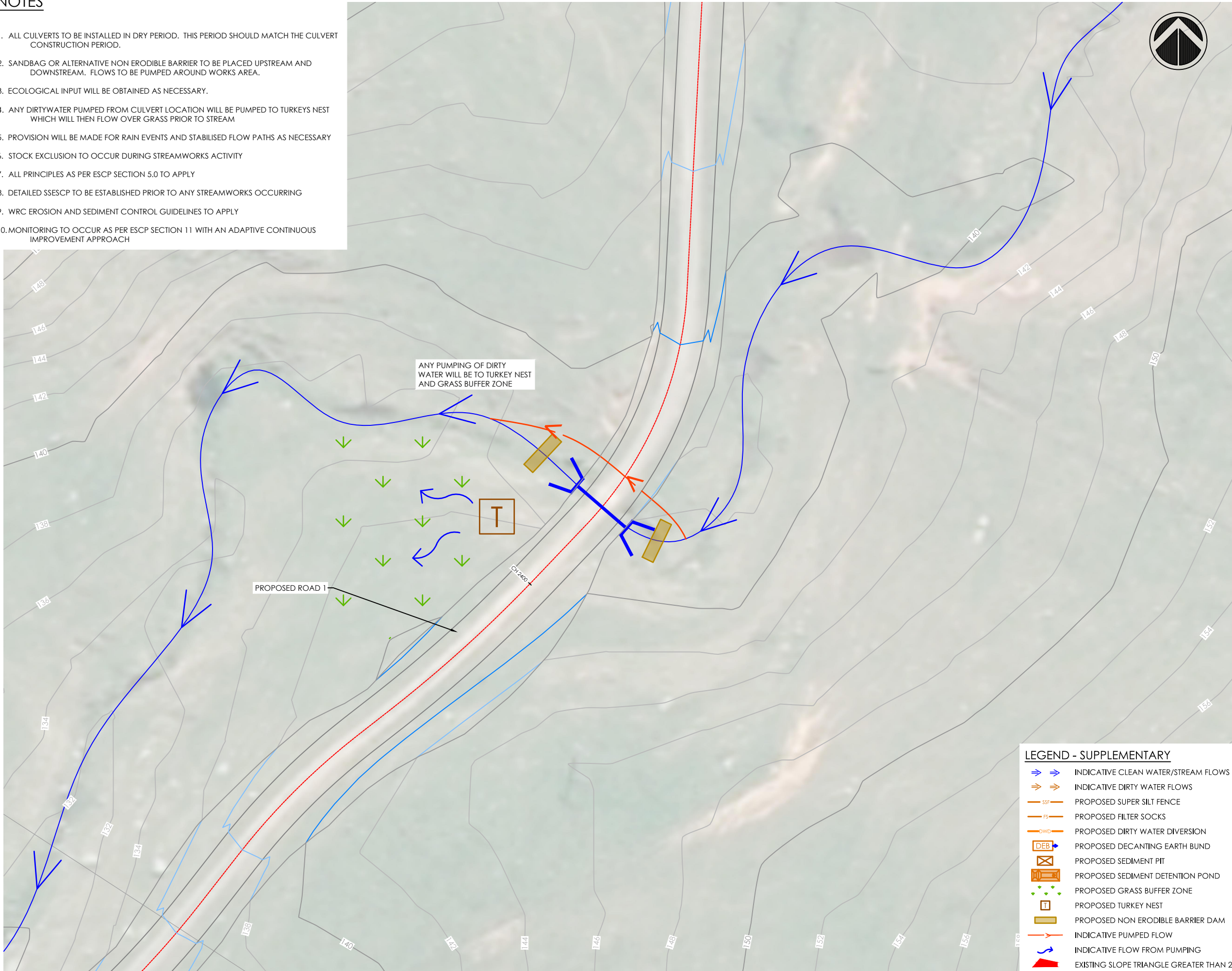
SUBTITLE: EROSION AND SEDIMENT CONTROL
 DETAIL SHEET 4 - ASSEMBLY AREA AND FILL
 SITE - INDICATIVE ONLY

SCALE AT A3: 1:1500	DATE: 05.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 251-4	REVISION: A	

FILL AREA AND ASSEMBLY
 AREA TREATED INDEPENDENTLY
 HOWEVER, INTEGRATION OF
 CONTROLS WHERE
 APPROPRIATE

NOTES

1. ALL CULVERTS TO BE INSTALLED IN DRY PERIOD. THIS PERIOD SHOULD MATCH THE CULVERT CONSTRUCTION PERIOD.
2. SANDBAG OR ALTERNATIVE NON ERODIBLE BARRIER TO BE PLACED UPSTREAM AND DOWNSTREAM. FLOWS TO BE PUMPED AROUND WORKS AREA.
3. ECOLOGICAL INPUT WILL BE OBTAINED AS NECESSARY.
4. ANY DIRTYWATER PUMPED FROM CULVERT LOCATION WILL BE PUMPED TO TURKEYS NEST WHICH WILL THEN FLOW OVER GRASS PRIOR TO STREAM
5. PROVISION WILL BE MADE FOR RAIN EVENTS AND STABILISED FLOW PATHS AS NECESSARY
6. STOCK EXCLUSION TO OCCUR DURING STREAMWORKS ACTIVITY
7. ALL PRINCIPLES AS PER ESCP SECTION 5.0 TO APPLY
8. DETAILED SSES CP TO BE ESTABLISHED PRIOR TO ANY STREAMWORKS OCCURRING
9. WRC EROSION AND SEDIMENT CONTROL GUIDELINES TO APPLY
10. MONITORING TO OCCUR AS PER ESCP SECTION 11 WITH AN ADAPTIVE CONTINUOUS IMPROVEMENT APPROACH



Notes:

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LEGEND

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTKOHU 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

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 STATUS: **RESOURCE CONSENT**

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 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
 DETAIL SHEET 5 - STREAMWORKS -
 INDICATIVE ONLY

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:500	05.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	251-5	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°

Appendix B: Typical ESC Design Details

Notes:

1. FOR INFORMATION PURPOSES ONLY.
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5. FINAL DESIGN OF DETAILS TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
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REV:	DESCRIPTION:	BY:	DATE:
STATUS: RESOURCE CONSENT			

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CLIENT:
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 10/215 ROSEDALE ROAD, ALBANY
 AUCKLAND 0632

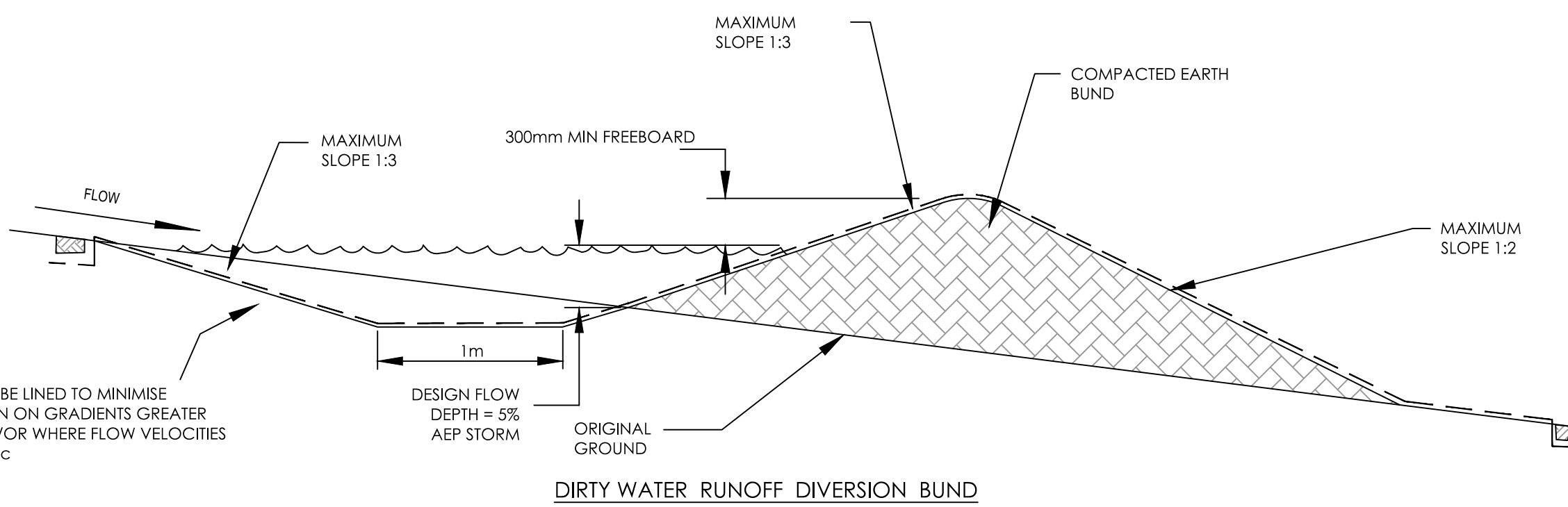
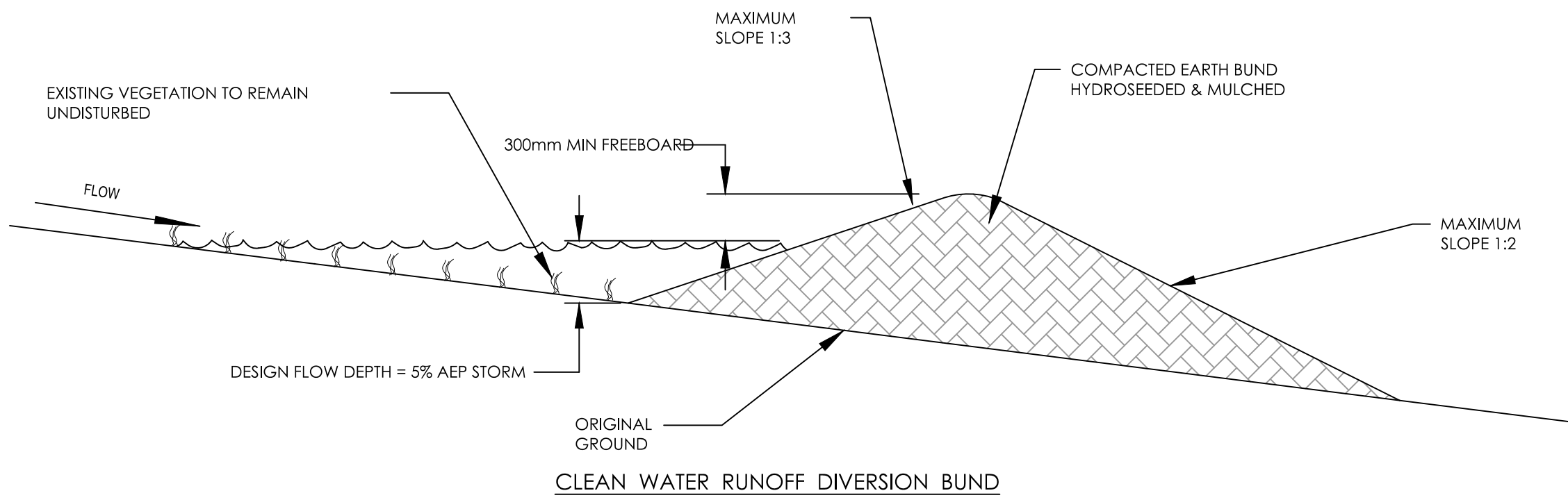
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

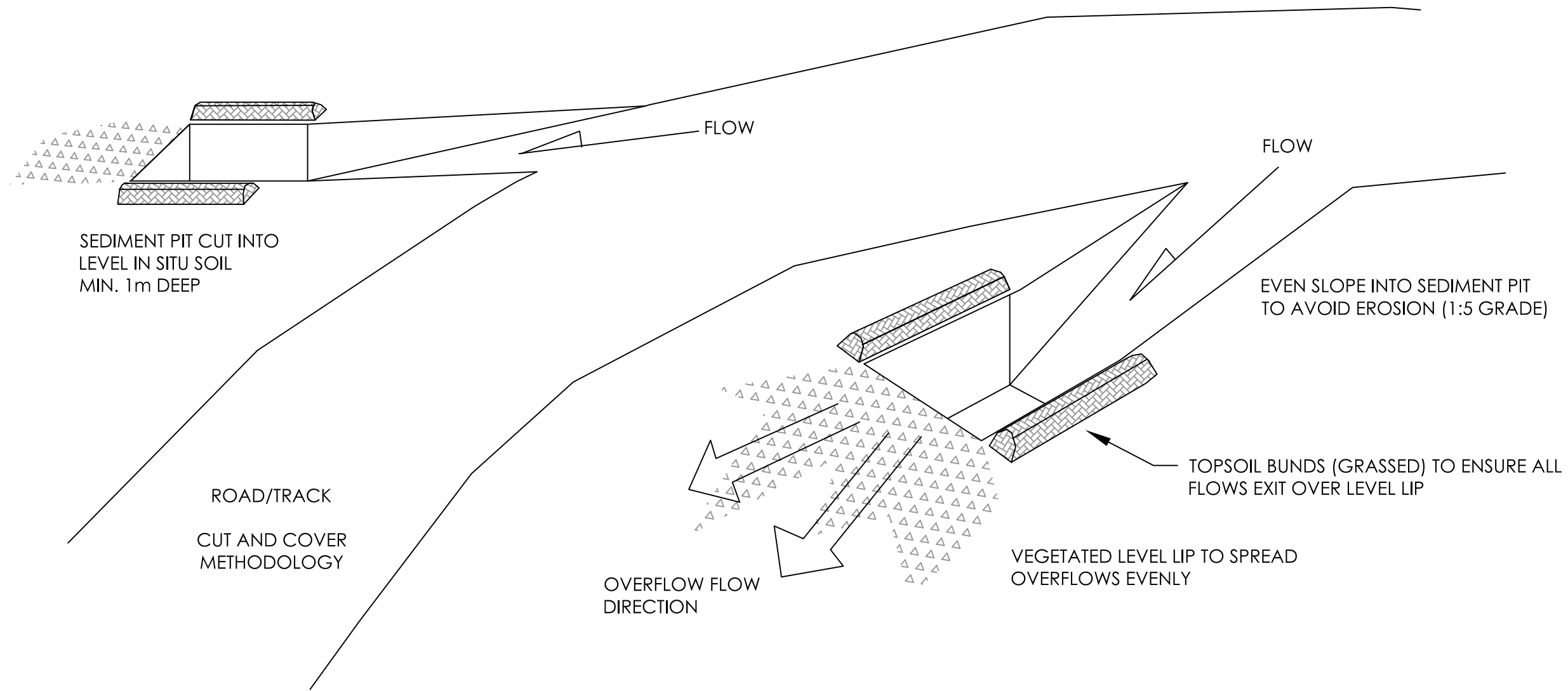
SUBTITLE:
 ESCP STANDARD DETAILS - CLEAN
 AND DIRTY WATER DIVERSION BUND

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
N.T.S	12.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	252-1	A	



DIVERSION TO BE LINED TO MINIMISE EROSION WHEN ON GRADIENTS GREATER THAN 2% AND/OR WHERE FLOW VELOCITIES EXCEED 1m/sec

NOTE:
 FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN



SEDIMENT PITS STANDARD DETAILS

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC
EROSION AND SEDIMENT CONTROL PLAN
ALL SEDIMENT PITS TO DISCHARGE OVER GRASS

Notes:

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5. FINAL DESIGN OF DETAILS TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
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REV:	DESCRIPTION:	BY:	DATE:
STATUS: RESOURCE CONSENT			

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PO Box 80212 Green Bay
Auckland 0643 NZ
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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
ROKOHU ROAD, PAEROA

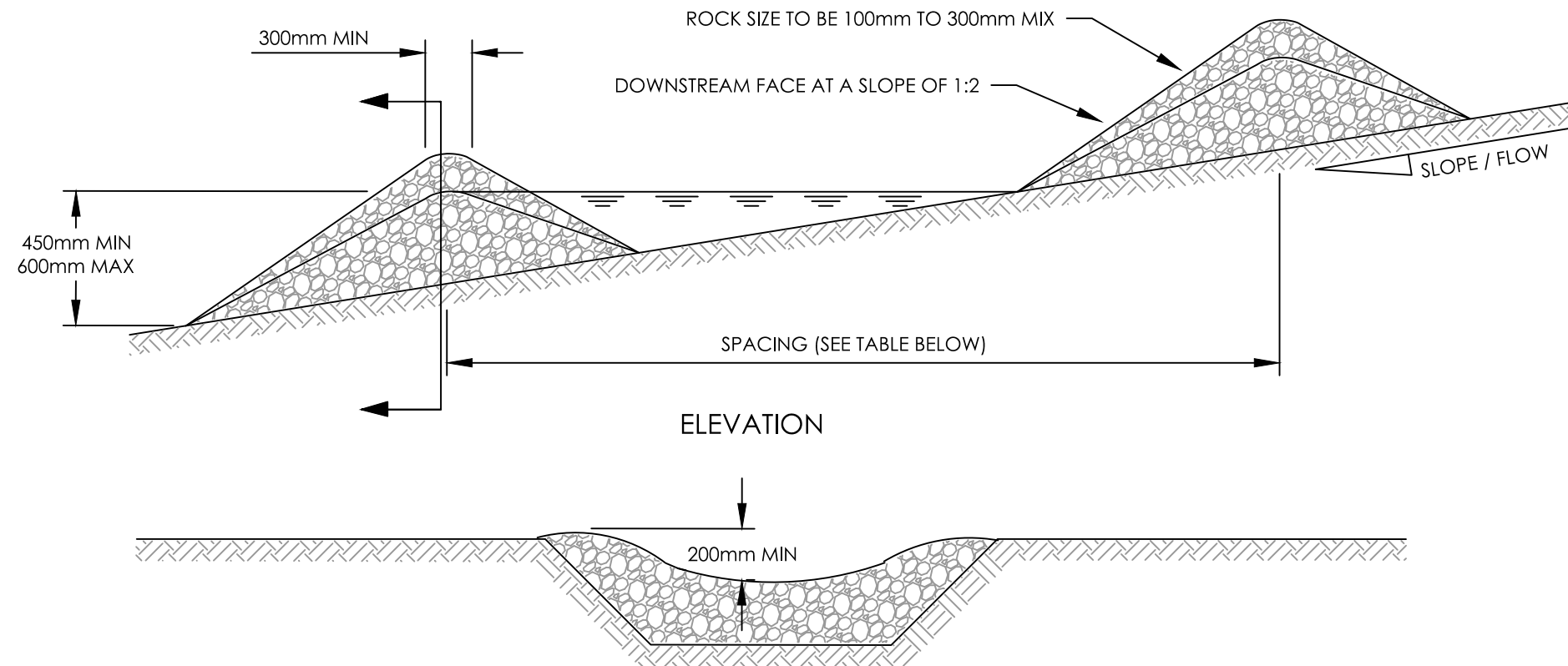
TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

SUBTITLE:
ESCP STANDARD DETAILS -
SEDIMENT PITS

SCALE AT A3: N.T.S	DATE: 12.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 252-2	REVISION: A	

Notes:

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CROSS SECTION

STANDARD ROCK CHECK DAM

SLOPE	SPACING (m) BETWEEN DAMS	
	(450mm CENTRE HEIGHT)	(600mm CENTRE HEIGHT)
2% OR LESS	24	30
2% - 4%	12	15
4% - 7%	8	11
7% - 10%	5	6
OVER 10%	USE STABILISED CHANNEL	USE STABILISED CHANNEL

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
---	----------------------------------	----	----------

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

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10/215 ROSEDALE ROAD, ALBANY
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SYNERGY POSITIONING SYSTEMS LTD
3/52 ARRENWAY DRIVE, ALBANY,
AUCKLAND 0632

SITE:
KAIMAI WIND FARM
ROKOHU ROAD, PAEROA

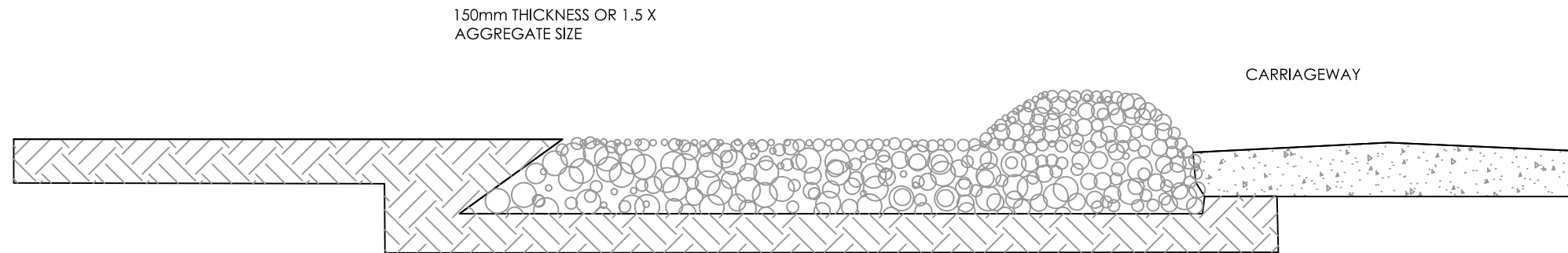
TITLE:
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DRAWINGS

SUBTITLE:
ESCP STANDARD DETAILS - ROCK
CHECK DAMS

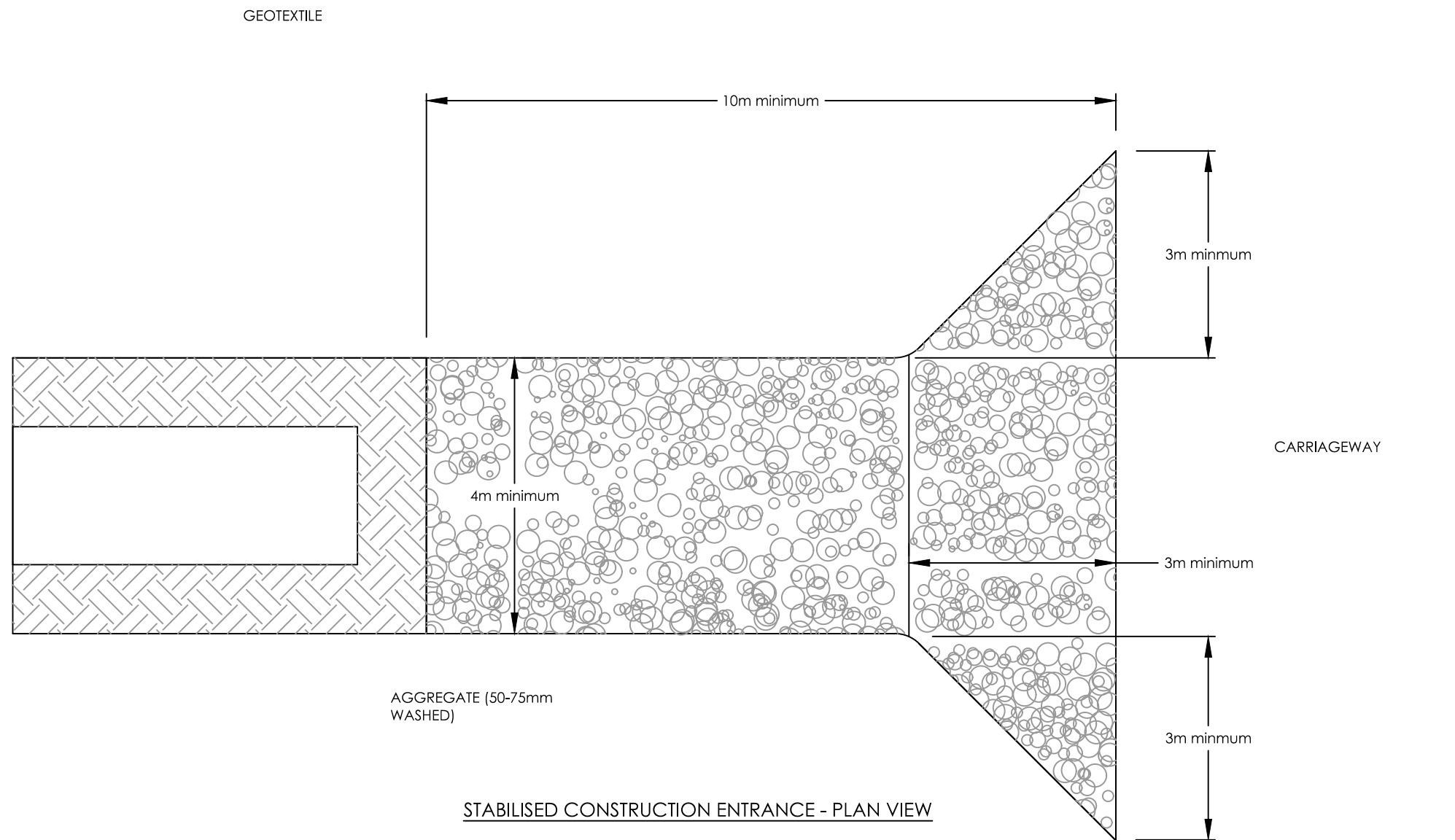
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N.T.S	12.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	252-3	A	

Notes:

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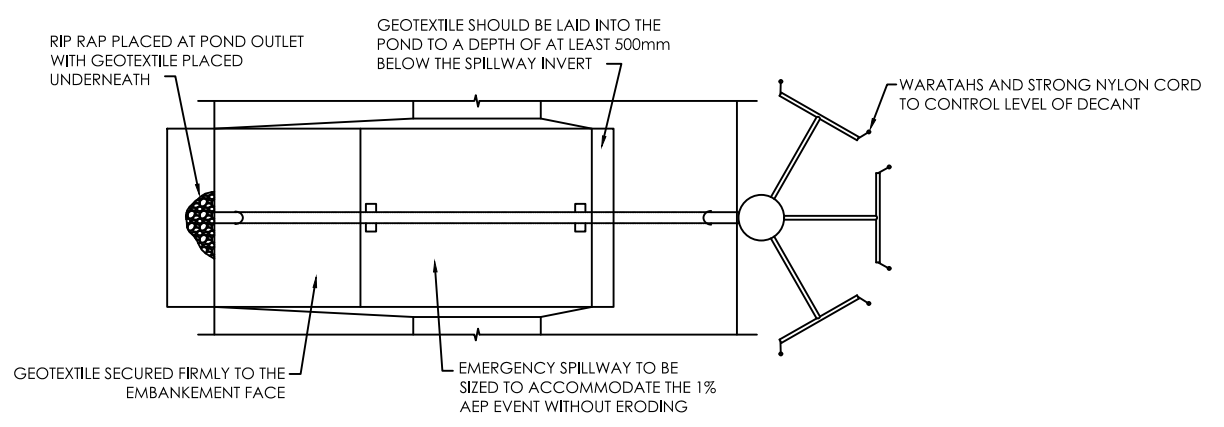
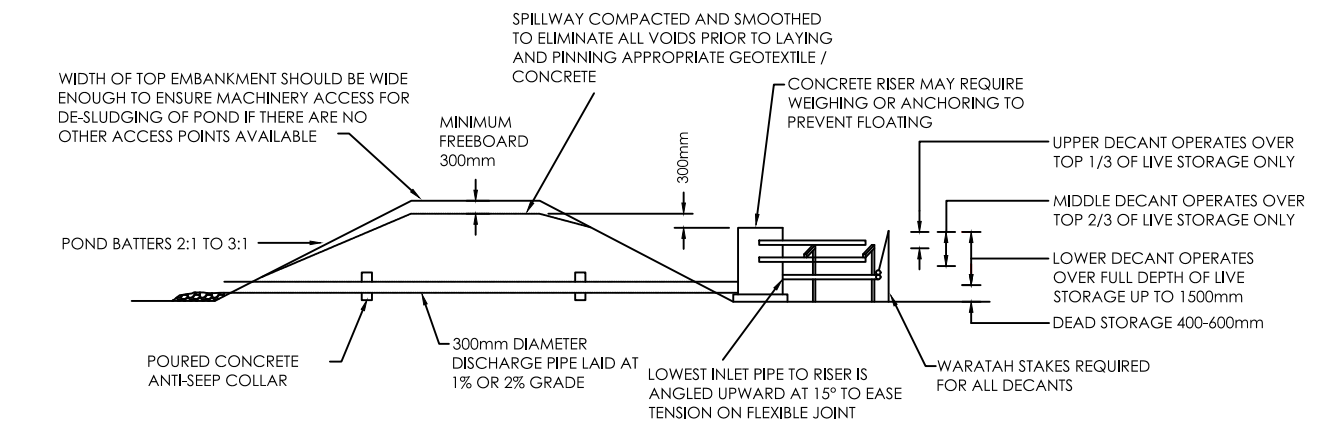
STABILISED CONSTRUCTION ENTRANCE - SIDE ELEVATION



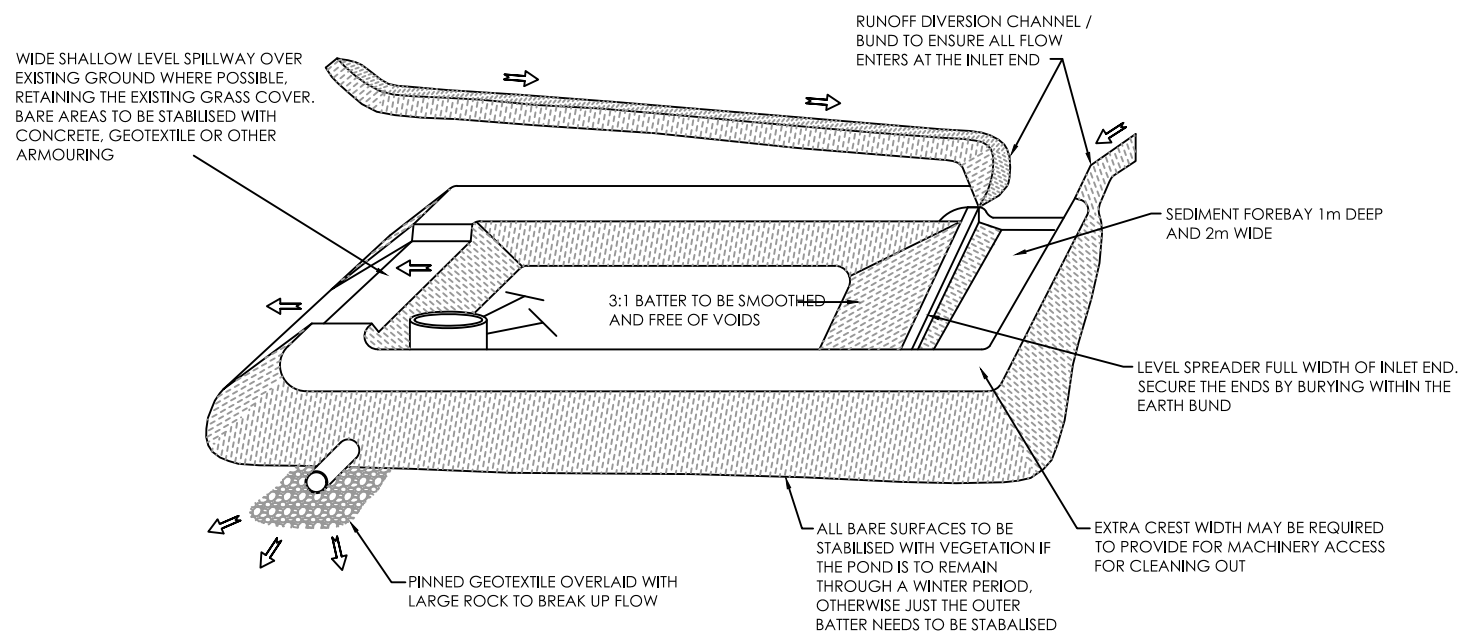
STABILISED CONSTRUCTION ENTRANCE - PLAN VIEW

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

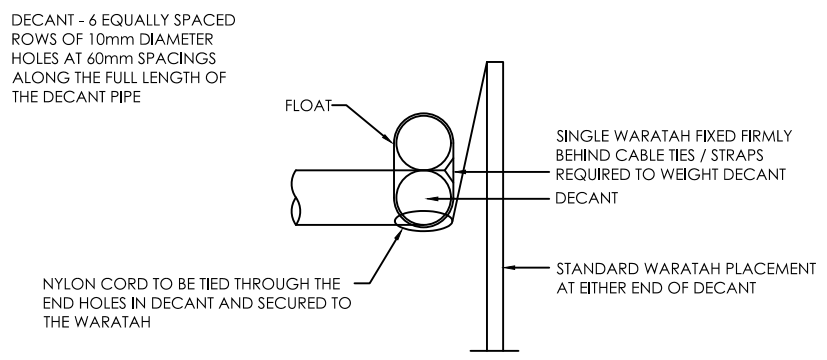
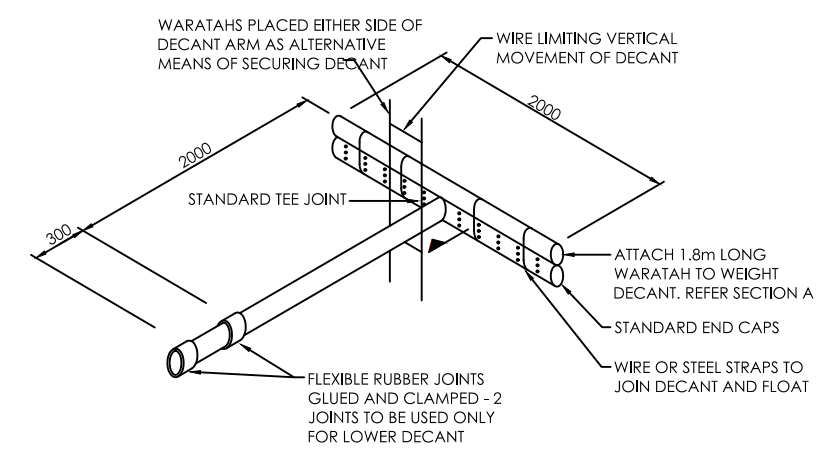
A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
REV:	DESCRIPTION:	BY:	DATE:
STATUS:		RESOURCE CONSENT	
<p>TEKTUS Consultants Ltd PO Box 80212 Green Bay Auckland 0643 NZ p. 09 827 1191 m. 021 1434 874 www.tektus.nz</p>			
<p>CLIENT: VENTUS ENERGY (NZ) LTD 10/215 ROSEDALE ROAD, ALBANY AUCKLAND 0632</p>			
<p>SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD 3/52 ARRENWAY DRIVE, ALBANY, AUCKLAND 0632</p>			
<p>SITE: KAIMAI WIND FARM ROTKOHU ROAD, PAEROA</p>			
<p>TITLE: PRELIMINARY CIVIL ENGINEERING DRAWINGS</p>			
<p>SUBTITLE: ESCP STANDARD DETAILS - STABILISED CONSTRUCTION ENTRANCE</p>			
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
N.T.S	12.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	252-4	A	



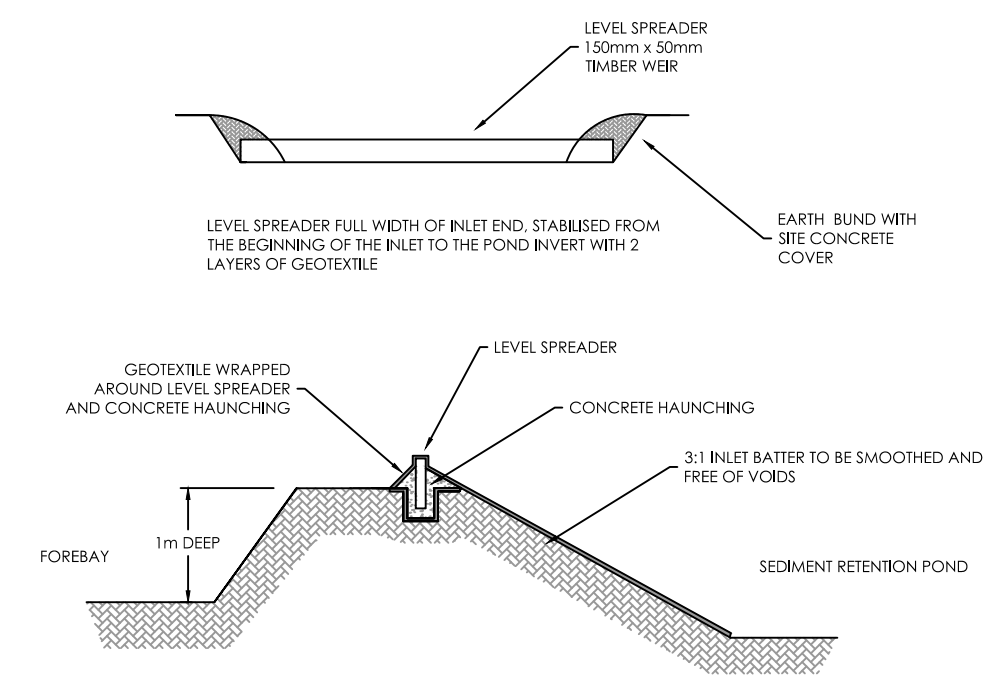
TYPICAL POND OUTLET PLAN & SECTION VIEWS



TYPICAL POND ISOMETRIC PLAN VIEWS



TYPICAL POND OUTLET DECANT DETAIL



TYPICAL POND LEVEL SPREADER DETAIL

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

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A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
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REV:	DESCRIPTION:	BY:	DATE:
STATUS:		RESOURCE CONSENT	

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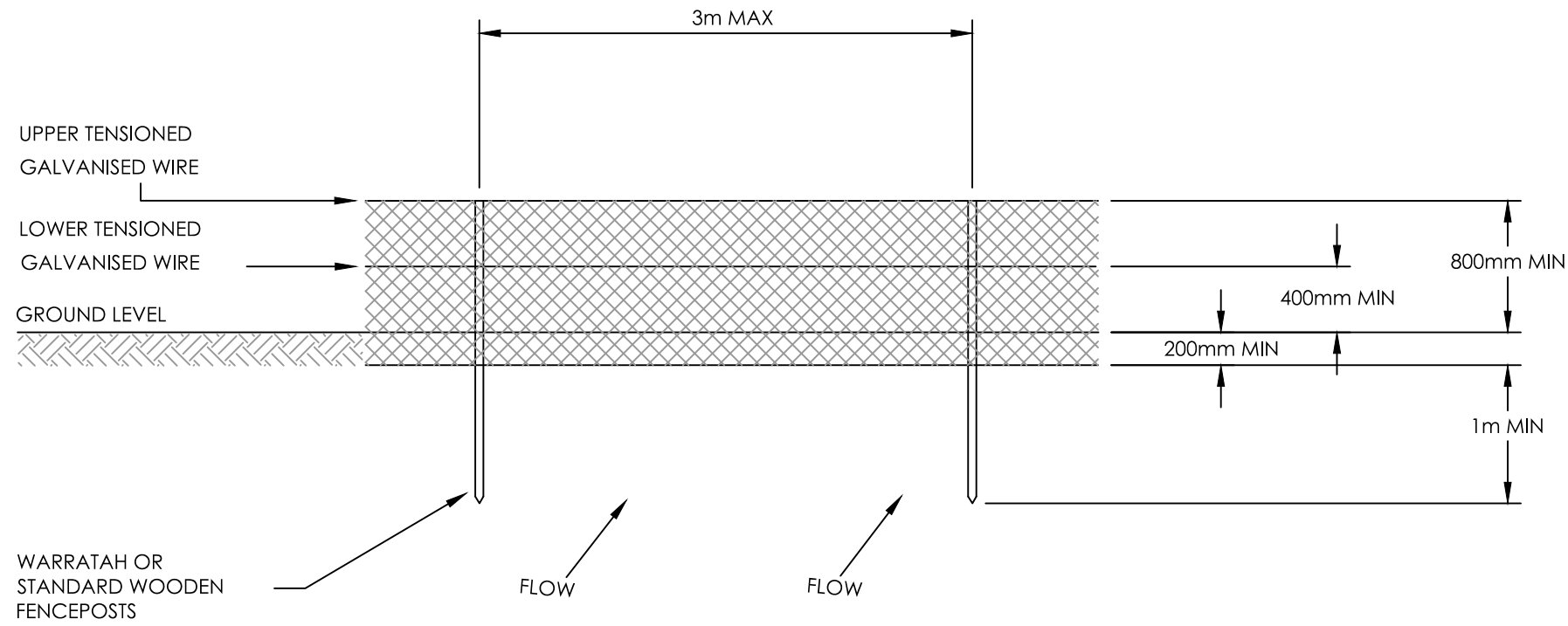
SITE:
KAIMAI WIND FARM
ROKOHU ROAD, PAEROA

TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

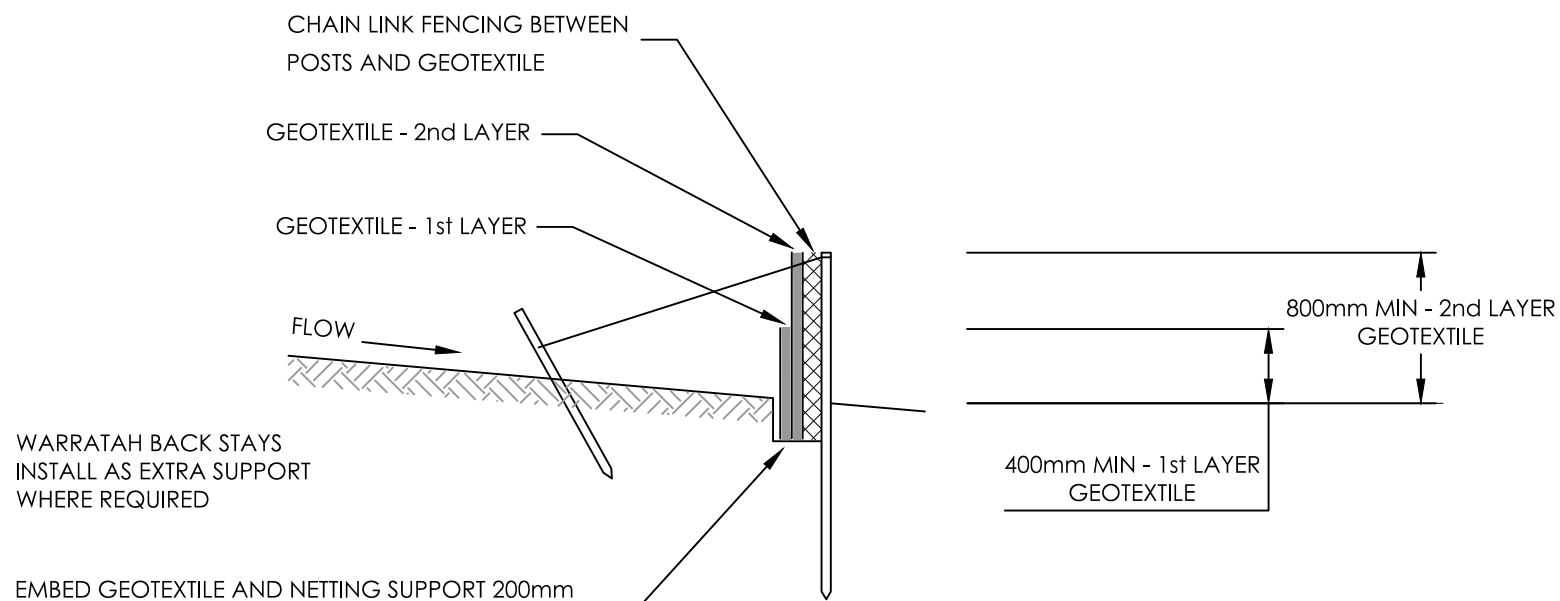
SUBTITLE:
ESCP STANDARD DETAILS -
SEDIMENT RETENTION POND

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
N.T.S	12.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	252-5	A	

SUPER SILT FENCE STANDARD DETAIL



ELEVATION



EMBED GEOTEXTILE AND NETTING SUPPORT 200mm MIN. INTO GROUND (COVER WITH SUITABLE BACKFILL AND COMPACT)

CROSS SECTION

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

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A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
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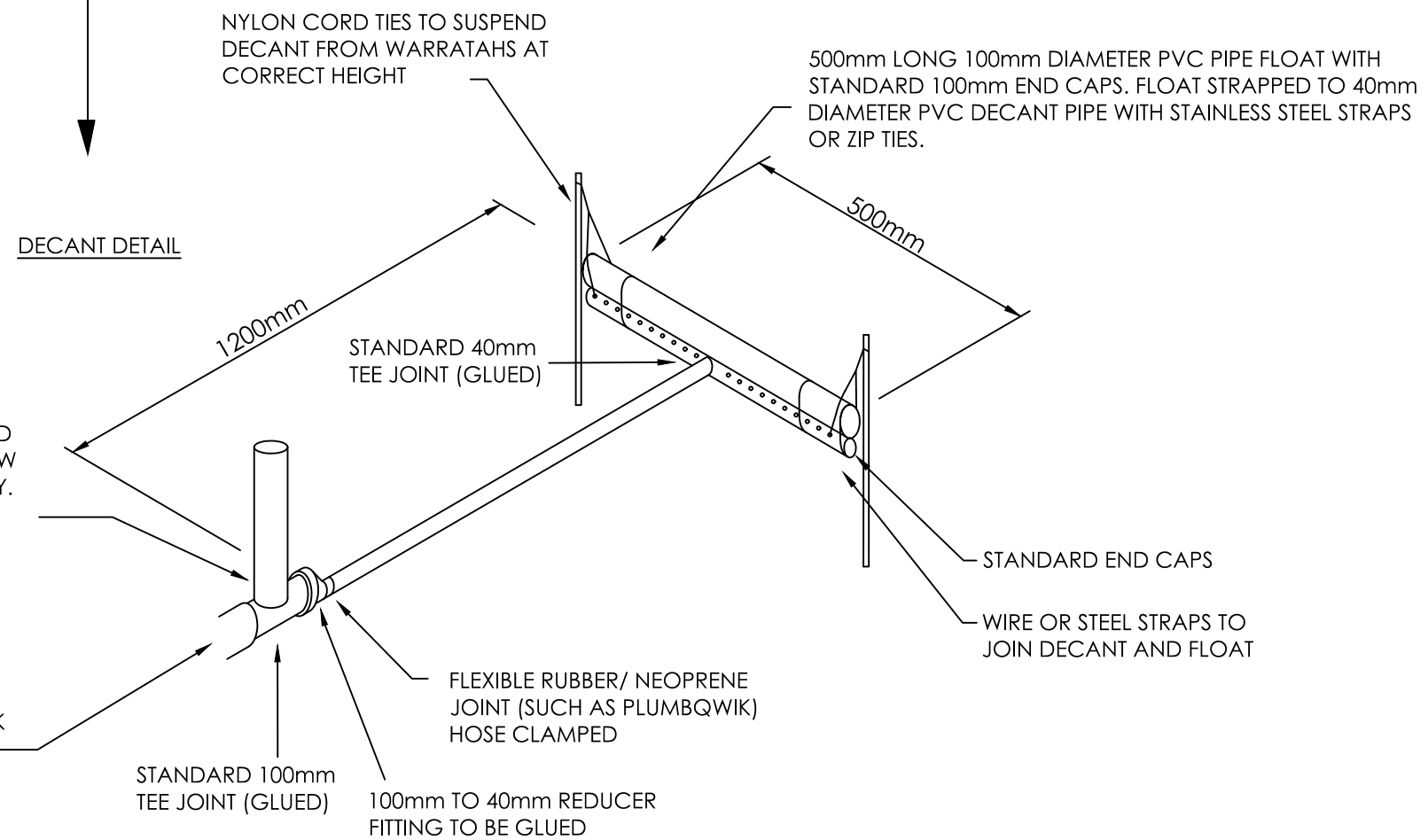
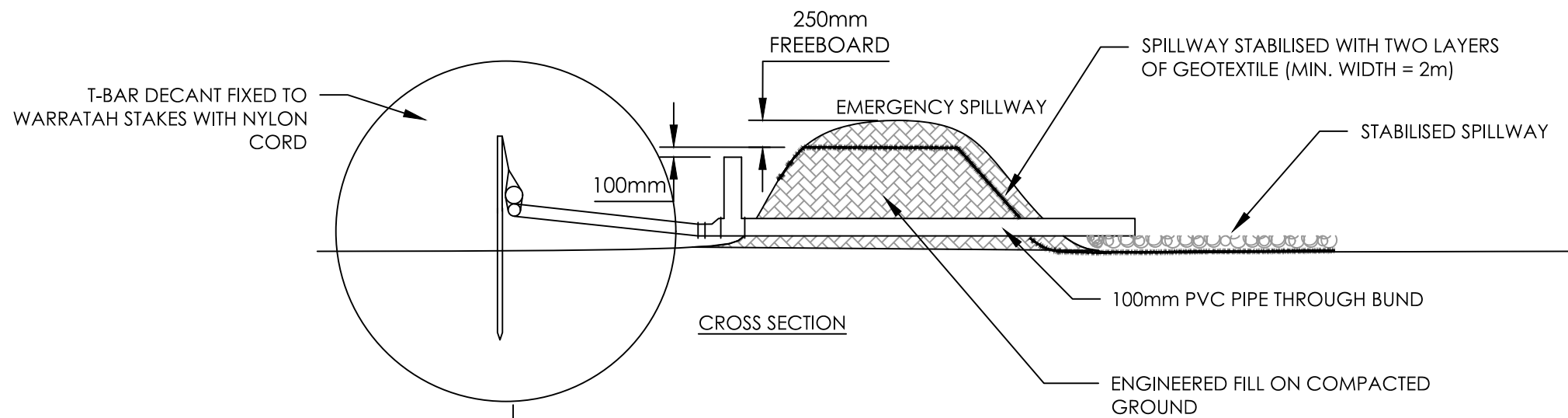
SURVEYOR:
SYNERGY POSITIONING SYSTEMS LTD
3/52 ARRENWAY DRIVE, ALBANY,
AUCKLAND 0632

SITE:
KAIMAI WIND FARM
ROKOHU ROAD, PAEROA

TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

SUBTITLE:
ESCP STANDARD DETAILS -
SUPER SILT FENCE

SCALE AT A3: N.T.S	DATE: 12.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 252-6	REVISION: A	



DECANTING EARTH BUND

NOTE:
FINAL DESIGN TO BE CONFIRMED IN SITE SPECIFIC
EROSION AND SEDIMENT CONTROL PLAN

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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.
5. FINAL DESIGN OF DETAILS TO BE CONFIRMED IN SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN

A	ADDITIONAL PLAN FOR S92 RESPONSE	LT	12.10.18
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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
ROKOHU ROAD, PAEROA

TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

SUBTITLE:
ESCP STANDARD DETAILS -
DECANTING EARTH BUND

SCALE AT A3: N.T.S	DATE: 12.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 252-7	REVISION: A	

Appendix C: Weekly ESC Check List

WEEKLY ENVIRONMENTAL INSPECTION CHECKSHEET

Kaimai Wind Farm

CONTRACT NAME: Kaimai Wind Farm Chainage and Location			
DATE:			
TIME and WEATHER CONDITIONS:			
NAME OF PERSON CARRYING OUT THE INSPECTION:			
INSPECTION	MAINTENANCE REQUIRED (refer notes below)		PASSED
	URGENT	ROUTINE	
1. All of the erosion and sediment controls on site have been checked that they are free from rubbish and the operational			Yes / No
2. All of the DEBs and SRPs on site have been checked and are fit for purpose. <ul style="list-style-type: none"> • DEB #1 • DEB # 2 • SRP 1 • SRP 2 • 			Yes / No Yes / No Yes / No Yes / No
3. All forebays have been checked and sediment removed if necessary			Yes / No
4. All dirtywater diversions have been inspected and are compliant with Guidelines and ESCP			Yes / No
5. All stabilisation is in place and compliant with stabilised surfaces as required			Yes / No
6. There is no sediment being washed directly to any watercourses			Yes / No
7. All site accesses are clean			Yes / No
8. All silt fences are maintained			Yes / No
9. All previous actions as identified have been fixed as necessary			Yes / No
10. It is confirmed that all earthworks areas have been viewed and risks identified			Yes / No

Comment on remedial works noted above with recommended action and required completion date.

If urgent works noted these shall be immediately reported to the Project Manager

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-

SIGNED: _____

PRINT NAME: _____