

PLAN SET 10

EROSION AND SEDIMENT CONTROL

EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DATE AND REVISION			
			11/2/2016	14/12/2016	7/04/2017	23/05/2017
	PLAN SET 10 - EROSION AND SEDIMENT CONTROL					
AEE-ES-001	EROSION AND SEDIMENT CONTROL - EAST WEST LINK - DRAWING INDEX, NOTES AND LEGEND	3	0	1	2	3
AEE-ES-100	EROSION AND SEDIMENT CONTROL - EAST WEST LINK - OVERVIEW PLAN	3	0	1	2	3
AEE-ES-101	EROSION AND SEDIMENT CONTROL - SH20/NEILSON STREET INTERCHANGE - SHEET 1	2	0		1	2
AEE-ES-102	EROSION AND SEDIMENT CONTROL - NEILSON STREET INTERCHANGE - SHEET 2	2	0		1	2
AEE-ES-103	EROSION AND SEDIMENT CONTROL - GALWAY STREET - SHEET 3	2	0		1	2
AEE-ES-104	EROSION AND SEDIMENT CONTROL - EMBANKMENT - SHEET 4	2	0		1	2
AEE-ES-105	EROSION AND SEDIMENT CONTROL - EMBANKMENT - SHEET 5	2	0		1	2
AEE-ES-106	EROSION AND SEDIMENT CONTROL - EMBANKMENT/ANNS CREEK - SHEET 6	2	0		1	2
AEE-ES-107	EROSION AND SEDIMENT CONTROL - ANNS CREEK - SHEET 7	3	0	1	2	3
AEE-ES-108	EROSION AND SEDIMENT CONTROL - ANNS CREEK/SYL VIA PARK ROAD - SHEET 8	3	0	1	2	3
AEE-ES-109	EROSION AND SEDIMENT CONTROL - ANNS CREEK/SYL VIA PARK RAMPS - SHEET 9	3	0	1	2	3
AEE-ES-110	EROSION AND SEDIMENT CONTROL - SH1/SYL VIA PARK RAMPS - SHEET 10	2	0		1	2
AEE-ES-111	EROSION AND SEDIMENT CONTROL - SH1/PANAMA ROAD - SHEET 11	2	0		1	2
AEE-ES-112	EROSION AND SEDIMENT CONTROL - SH1/OTAHUHU CREEK - SHEET 12	2	0		1	2
AEE-ES-113	EROSION AND SEDIMENT CONTROL - PRINCES STREET INTERCHANGE - SHEET 13	2	0		1	2
AEE-ES-114	EROSION AND SEDIMENT CONTROL - NEILSON STREET INTERCHANGE - LOCAL ROADS - SHEET 14A AND 14B	2	0		1	2
AEE-ES-115	EROSION AND SEDIMENT CONTROL - CAPTAIN SPRINGS ROAD/ PORTS LINK - SHEET 15A AND 15B	2	0		1	2
AEE-ES-116	EROSION AND SEDIMENT CONTROL - EMBANKMENT - SHEET 16	2	0		1	2
AEE-ES-301	EROSION AND SEDIMENT CONTROL - TYPICAL DETAIL - SHEET 1	2	0		1	2
AEE-ES-302	EROSION AND SEDIMENT CONTROL - TYPICAL DETAIL - SHEET 2	2	0		1	2
AEE-ES-303	EROSION AND SEDIMENT CONTROL - TYPICAL DETAIL - SHEET 3	2	0		1	2
AEE-ES-304	EROSION AND SEDIMENT CONTROL - TYPICAL DETAIL - SHEET 4	2	0		1	2
AEE-ES-305	EROSION AND SEDIMENT CONTROL - TYPICAL DETAIL - SHEET 5	2	0		1	2

LEGEND: EROSION SEDIMENT CONTROL

PROPOSED FEATURES

- CLEAN WATER DIVERSION (CWD)
- DIRTY WATER DIVERSION (DWD)
- SUPER SILT FENCE (SSF)
- DECANTING EARTH BUND (DEB) MAXIMUM CONTRIBUTING DISTURBED AREA 3000m² WITH FLOCCULATION SHEDS (INTERNAL COLOUR INDICATES CORRESPONDING CATCHMENTS)
- SEDIMENT RETENTION POND (SRP) WITH FLOCCULATION SHEDS (INTERNAL COLOUR INDICATES CORRESPONDING CATCHMENTS)
- CUT SLOPES
- ROAD ALIGNMENT
- FILL SLOPES
- TOE OF OUTER BUND
- SRP / DEB CATCHMENTS (ALTERNATING COLOURS USED FOR CLARITY ONLY)
- STABILISED CONSTRUCTION ACCESS OVERLAND FLOW PATH
- STORMWATER PIPE
- STORMWATER MANHOLE
- DESIGNATION BOUNDARY
- COASTAL RECLAMATION AREA
- OCCUPATION OF COASTAL MARINE AREA (PERMANENT)
- FORESHORE VEGETATION
- SHINGLE FORESHORE SLOPE
- BRIDGE STRUCTURE
- RETAINING WALL

EXISTING FEATURES

- PROPERTY BOUNDARY
- EXISTING COASTAL MARINE BOUNDARY

EROSION SEDIMENT CONTROL, REFER DRAWINGS AEE-ES-101 TO AEE-ES-116

3	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
2	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

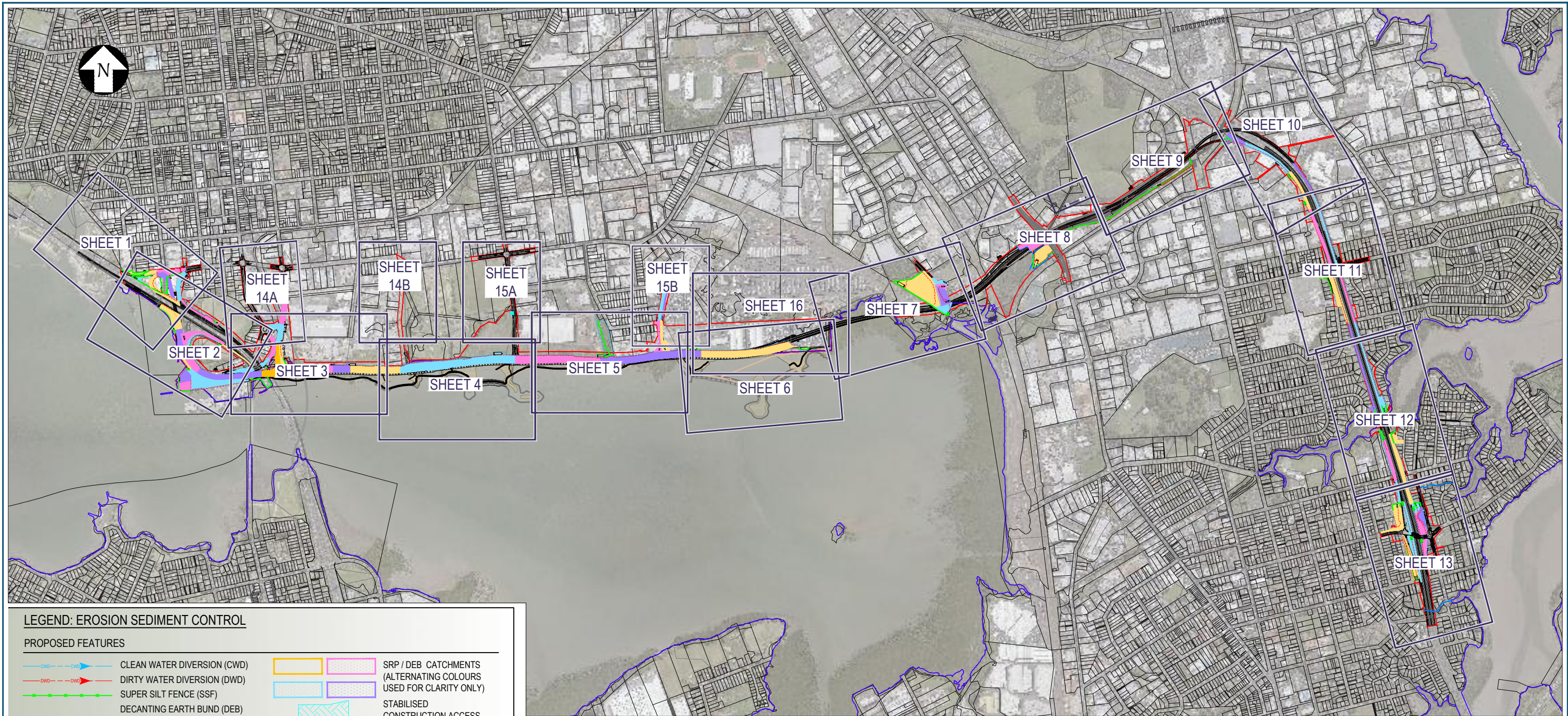
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title	EROSION SEDIMENT CONTROL EAST WEST LINK DRAWING INDEX, NOTES AND LEGEND	Rev No. 3
Drawing Number	AEE-ES-001	

FOR BOI ISSUE



LEGEND: EROSION SEDIMENT CONTROL

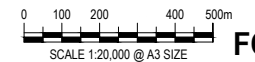
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- DIRTY WATER DIVERSION (DWD)
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- ROAD ALIGNMENT
- FILL SLOPES
- TOE OF OUTER BUND
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- BRIDGE STRUCTURE
- RETAINING WALL

EXISTING FEATURES

- PROPERTY BOUNDARY
- EXISTING COASTAL MARINE BOUNDARY

EROSION SEDIMENT CONTROL, REFER DRAWINGS AEE-ES-101 TO AEE-ES-116



FOR BOI ISSUE

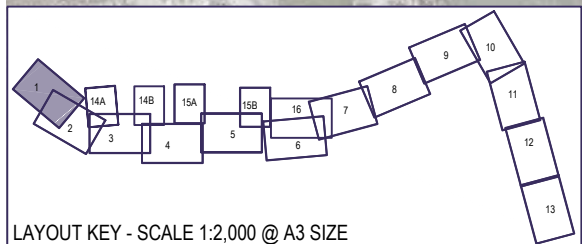
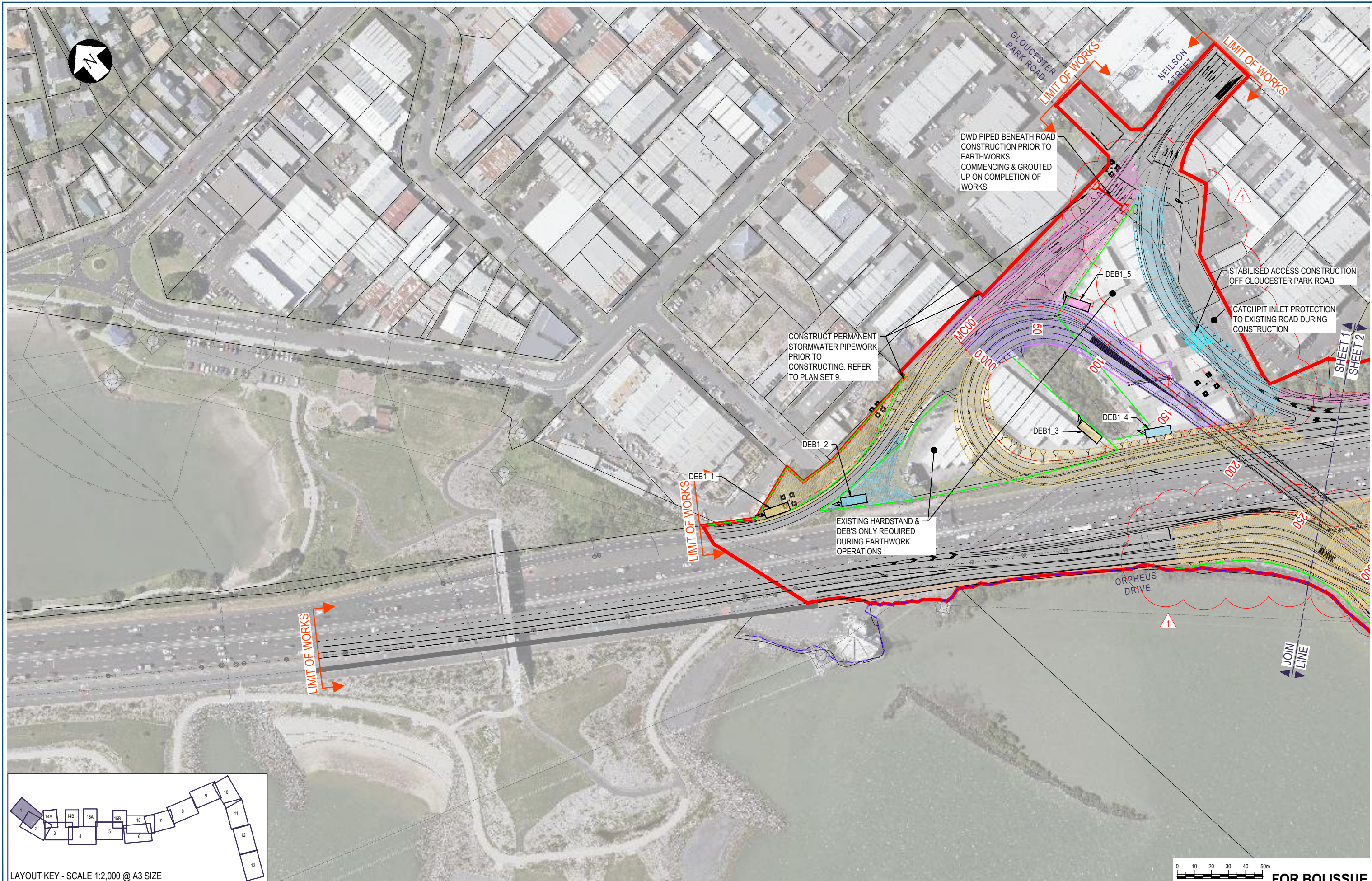
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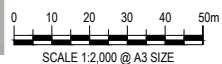


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Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL EAST WEST LINK OVERVIEW PLAN		
Drawing Number	AEE-ES-100	Rev No.	3



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



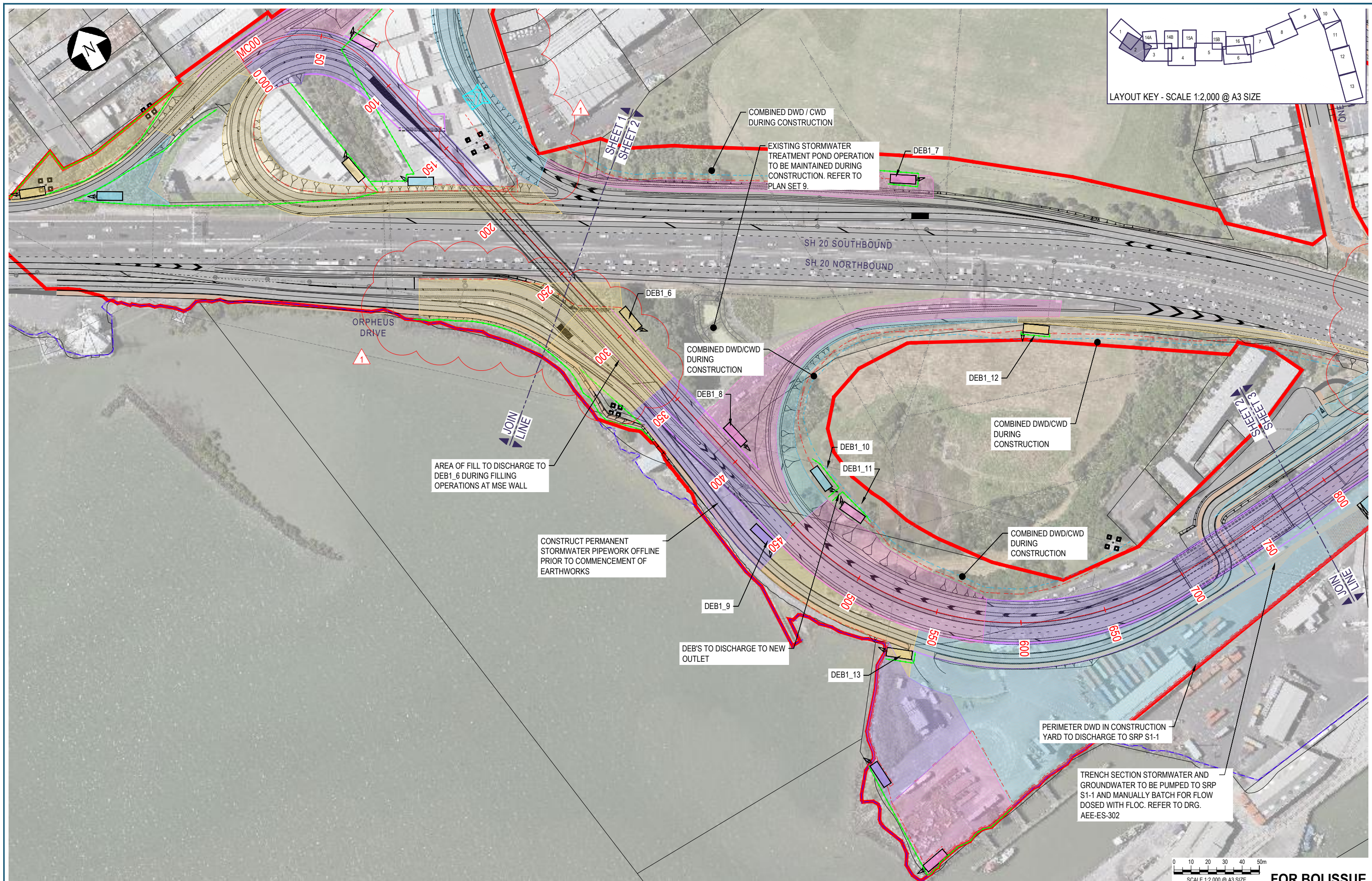
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Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE SHEET 01		
Drawing Number	AEE-ES-101		
Rev No.	2		



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1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
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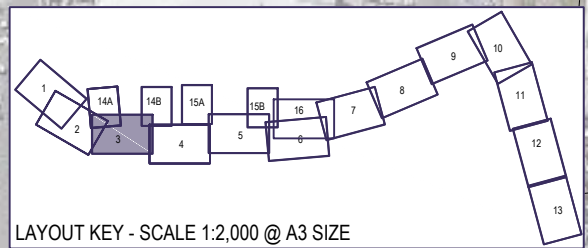
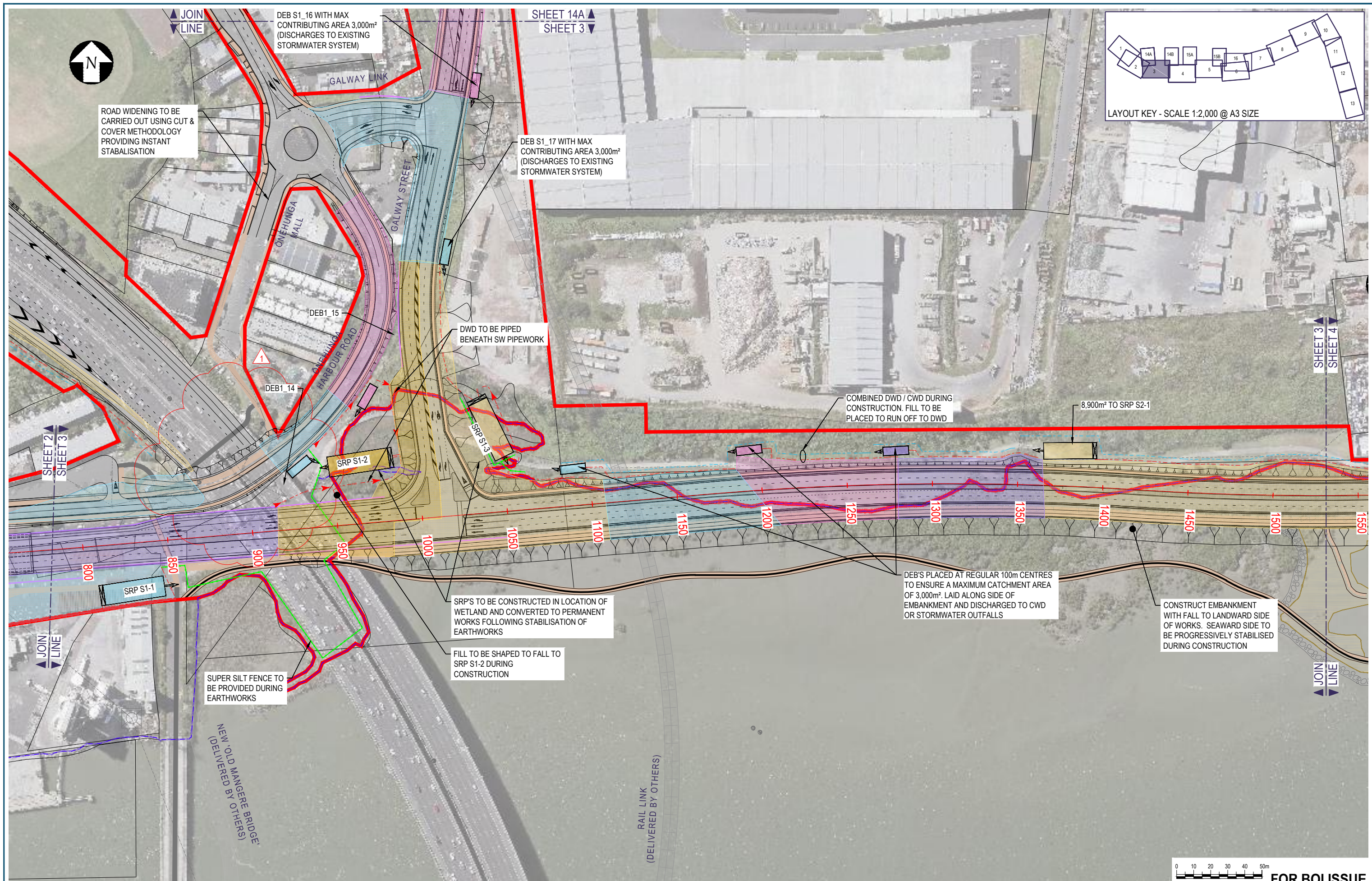
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NZ TRANSPORT AGENCY
 WAIKA KOTAHU

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE SHEET 02		
Drawing Number	AEE-ES-102	Rev No.	2



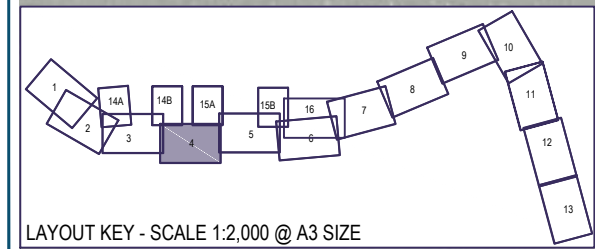
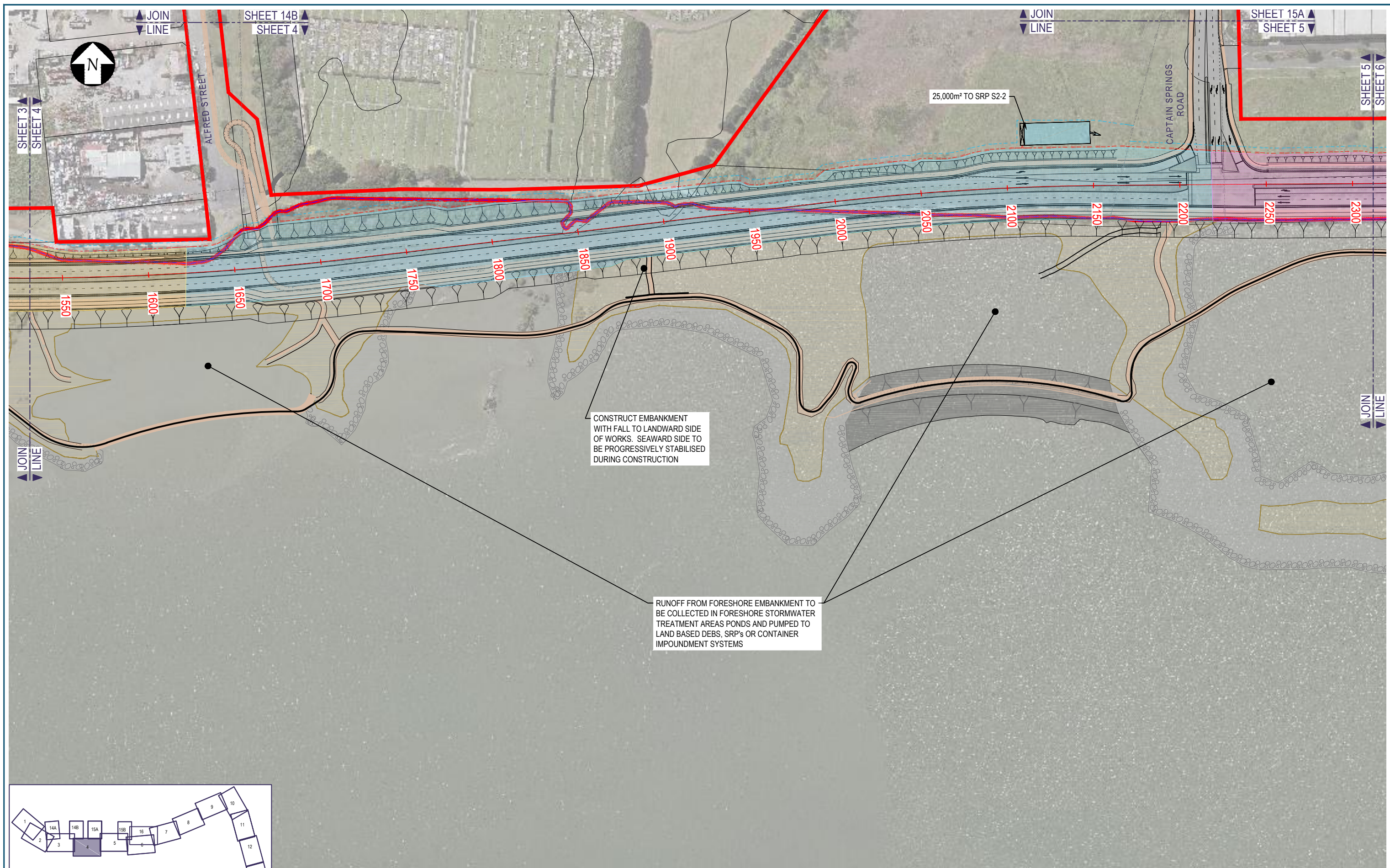
0 10 20 30 40 50m
SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

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Designed	T CAIN	Design Check	J MURAHIDY				
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL EAST WEST LINK/ GALWAY STREET SHEET 03		
Drawing Number	AEE-ES-103	Rev No.	2



No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
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Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL EMBANKMENT SHEET 04	Drawing Number AEE-ES-104	Rev No. 2
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- MIAMI STREAM EROSION AND SEDIMENT CONTROL**
1. CONSTRUCT NEW OUTFALL WITH PIPEWORK AND NON RETURN VALVE DURING LOW TIDE.
 2. CONSTRUCT BYPASS CHANNEL FOR THE FOREBAY DESIGN AND STABILISE WITH PERIMETER CONTROLS (SFF, DEB & CWD).
 3. TRANSFER FLOWS TO BYPASS CHANNEL TO ALLOW FOR A "DRY" WORKING AREA TO CONSTRUCT WETLAND.
 4. SEAL OFF EXISTING OUTFALL TO PREVENT TIDAL INGRESS DURING CONSTRUCTION OF WETLAND.
 5. REMOVE UNSUITABLE MATERIAL TO APPROXIMATELY MANAGED TIP FACILITY. GROUNDWATER/STORMWATER TO BE PUMPED TO DEB6_1 DURING CONSTRUCTION.
 6. CONSTRUCT BIOFILTRATION AREA & OUTLET STRUCTURES WITH SEAL/PLUG OUTLET PIPEWORK TO PREVENT TIDAL INGRESS DURING CONSTRUCTION.
 7. CONSTRUCT WETLAND AREA.
 8. CONSTRUCT FOREBAY.
 9. ONCE WETLAND IS ESTABLISHED AND STABILISED, REMOVE SEAL/PLUG FROM OUTLET AND TRANSFER FLOWS TO WETLAND.

SHEET 5
SHEET 6

JOIN
LINE

14,700m² TO SRP S2-3

DEB S6_3 WITH MAX CONTRIBUTING AREA 3,000m² (TO DISCHARGE TO CWD).

DEB S6_4 WITH MAX CONTRIBUTING AREA 3,000m² (TO DISCHARGE TO CWD).

EXISTING SW OUTFALL & PIPEWORK

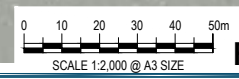
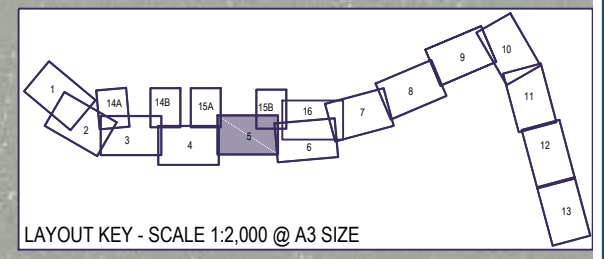
CONSTRUCT EMBANKMENT WITH FALL TO LANDWARD SIDE OF WORKS. SEAWARD SIDE TO BE PROGRESSIVELY STABILISED DURING CONSTRUCTION

JOIN
LINE
LIMIT OF WORKS

SHEET 15B
SHEET 5

SHEET 5
SHEET 6

JOIN
LINE



FOR BOI ISSUE

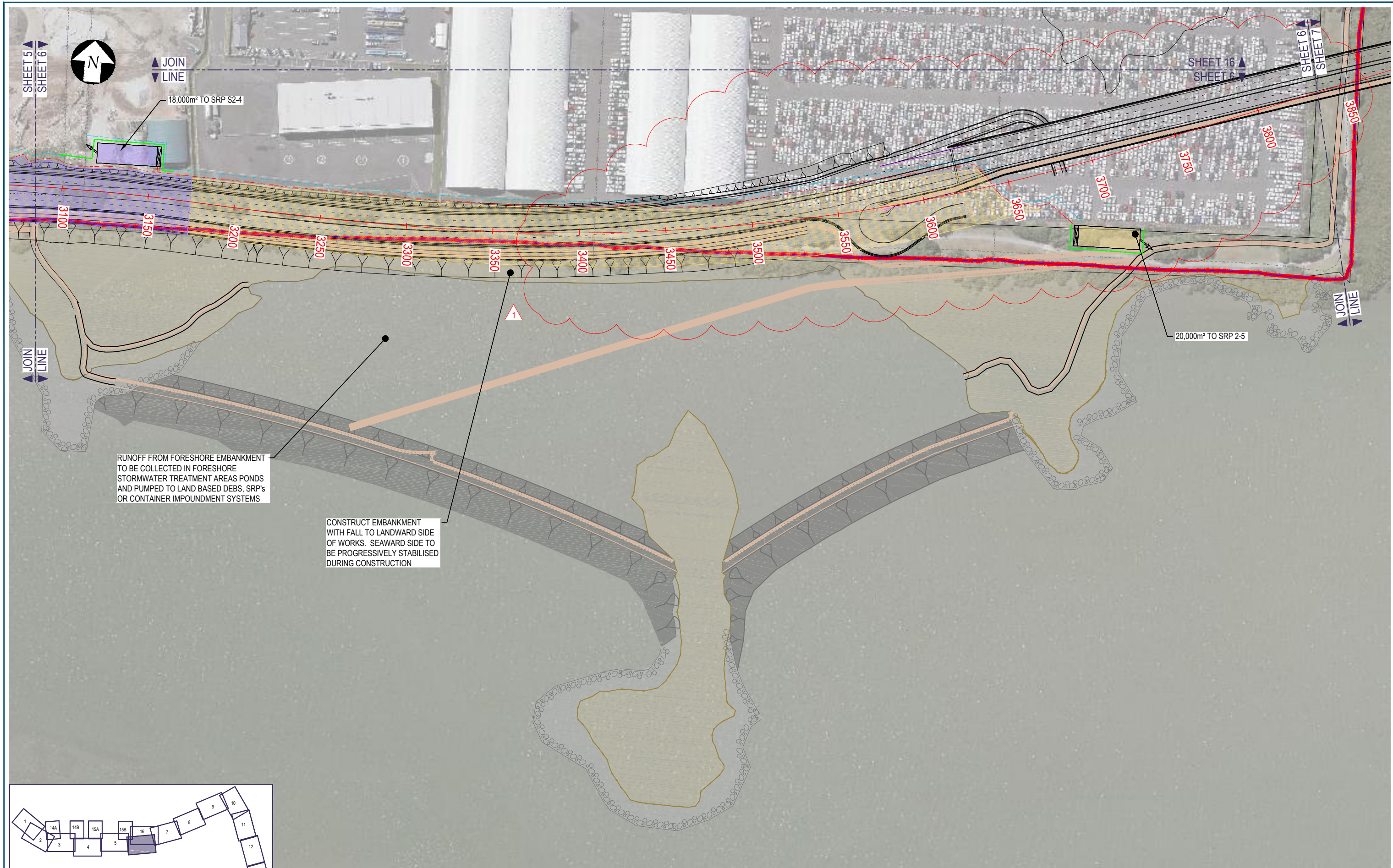
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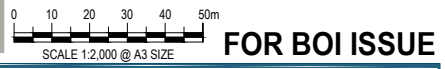
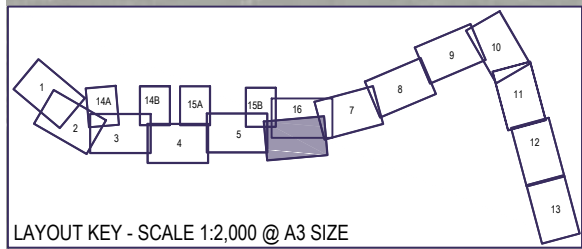
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL EMBANKMENT SHEET 05		
Drawing Number	AEE-ES-105	Rev No.	2



RUNOFF FROM FORESHORE EMBANKMENT TO BE COLLECTED IN FORESHORE STORMWATER TREATMENT AREAS PONDS AND PUMPED TO LAND BASED DEBS, SRP's OR CONTAINER IMPOUNDMENT SYSTEMS

CONSTRUCT EMBANKMENT WITH FALL TO LANDWARD SIDE OF WORKS. SEAWARD SIDE TO BE PROGRESSIVELY STABILISED DURING CONSTRUCTION



FOR BOI ISSUE

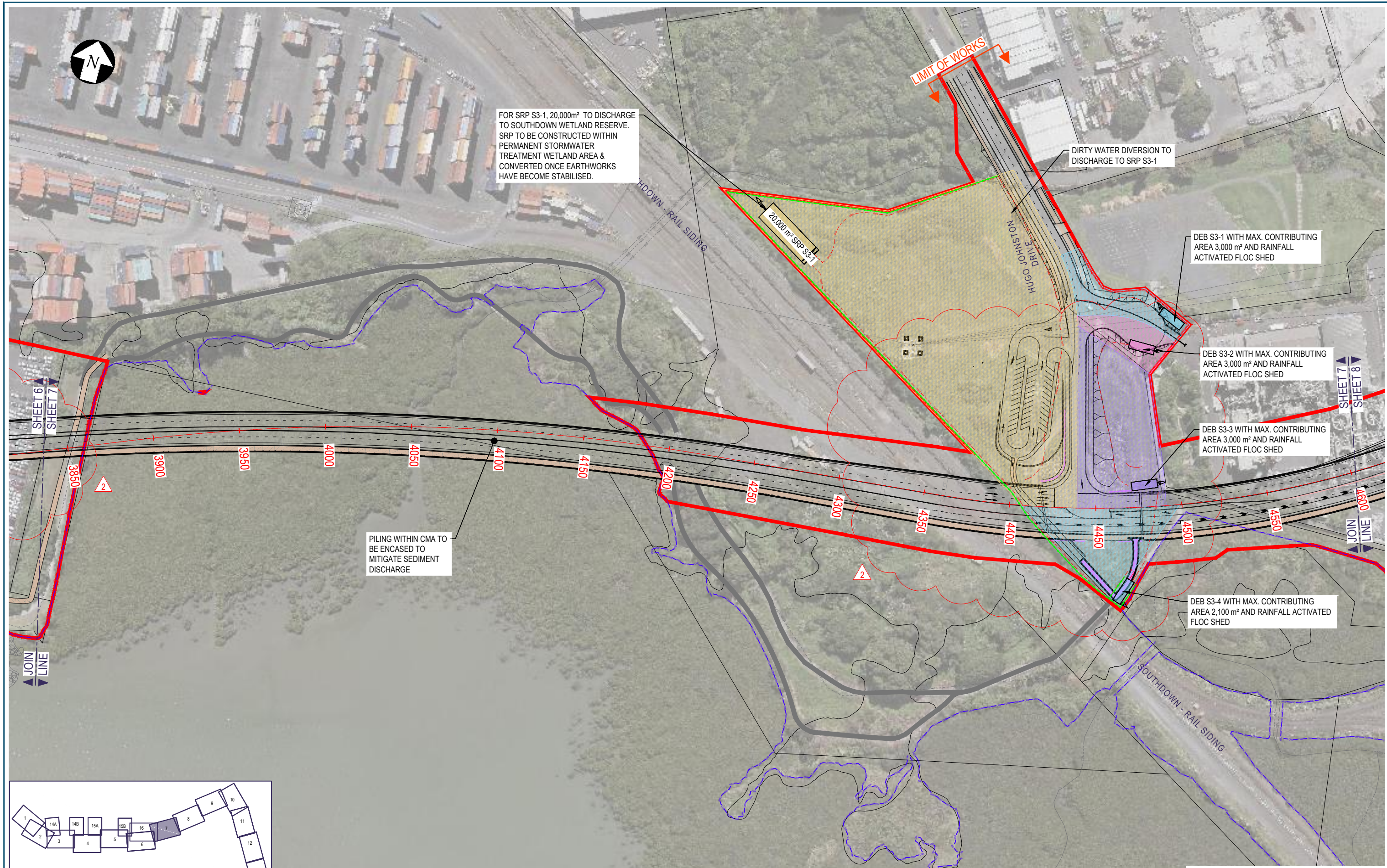
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	26.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
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Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL ANNS CREEK/ ANNS CREEK SHEET 06	Drawing Number AEE-ES-106	Rev No. 2
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FOR SRP S3-1, 20,000m² TO DISCHARGE TO SOUTHDOWN WETLAND RESERVE. SRP TO BE CONSTRUCTED WITHIN PERMANENT STORMWATER TREATMENT WETLAND AREA & CONVERTED ONCE EARTHWORKS HAVE BECOME STABILISED.

DIRTY WATER DIVERSION TO DISCHARGE TO SRP S3-1

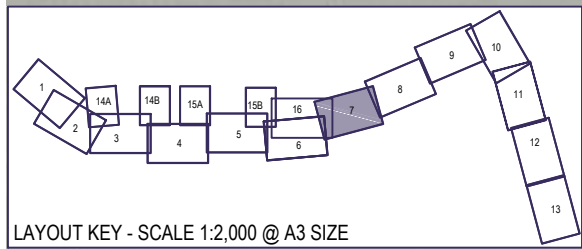
DEB S3-1 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

DEB S3-2 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

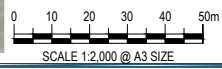
DEB S3-3 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

DEB S3-4 WITH MAX. CONTRIBUTING AREA 2,100 m² AND RAINFALL ACTIVATED FLOC SHED

PILING WITHIN CMA TO BE ENCASED TO MITIGATE SEDIMENT DISCHARGE



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



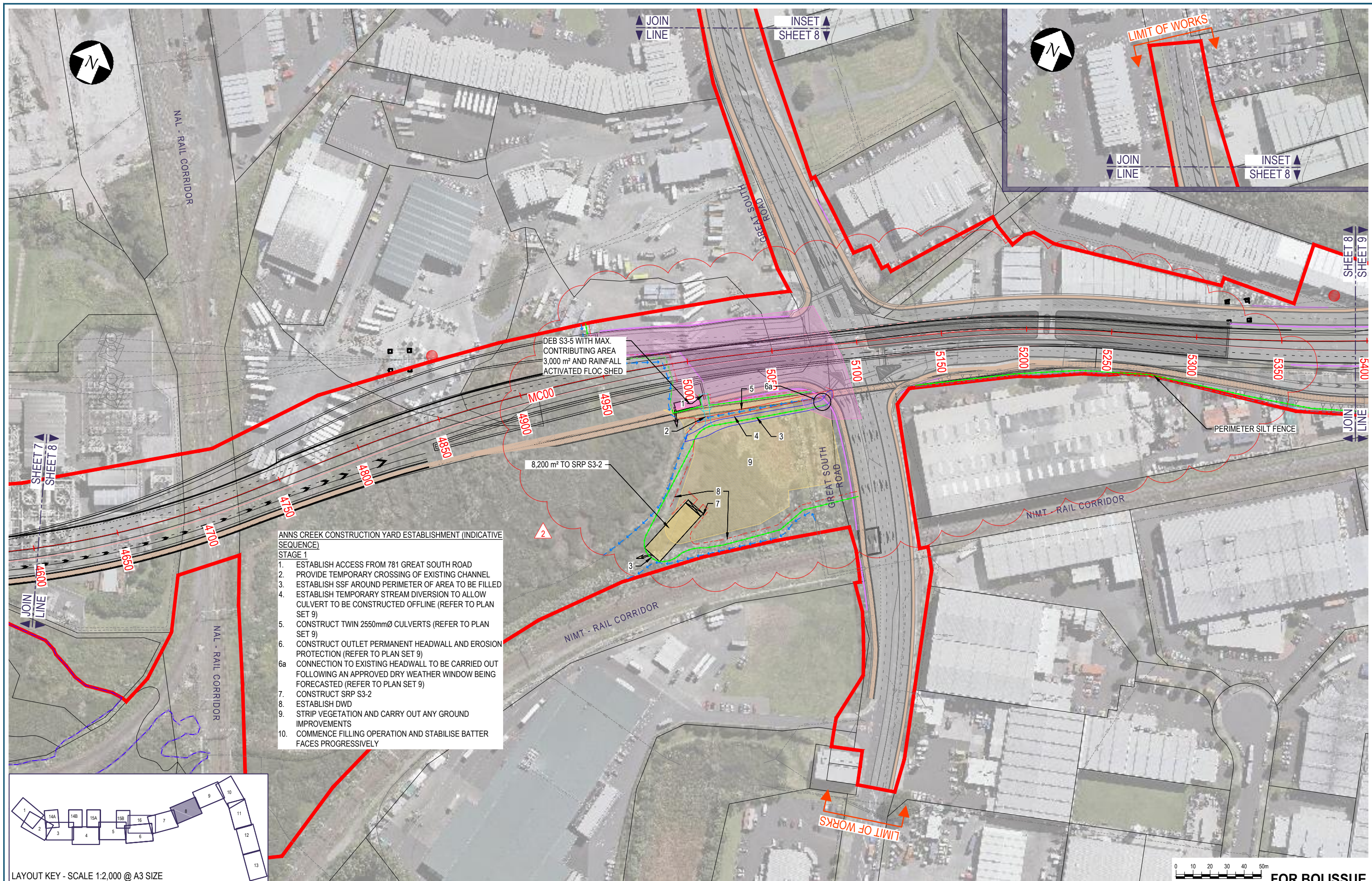
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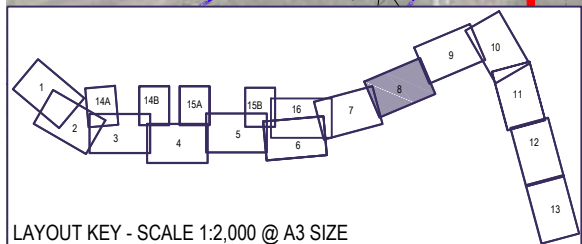
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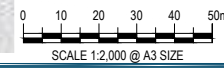
Drawing Title	EROSION SEDIMENT CONTROL		
	ANNS CREEK		
	SHEET 07		
Drawing Number	AEE-ES-107		
Rev No.	3		



- ANNS CREEK CONSTRUCTION YARD ESTABLISHMENT (INDICATIVE SEQUENCE)**
STAGE 1
1. ESTABLISH ACCESS FROM 781 GREAT SOUTH ROAD
 2. PROVIDE TEMPORARY CROSSING OF EXISTING CHANNEL
 3. ESTABLISH SSF AROUND PERIMETER OF AREA TO BE FILLED
 4. ESTABLISH TEMPORARY STREAM DIVERSION TO ALLOW CULVERT TO BE CONSTRUCTED OFFLINE (REFER TO PLAN SET 9)
 5. CONSTRUCT TWIN 2550mmØ CULVERTS (REFER TO PLAN SET 9)
 6. CONSTRUCT OUTLET PERMANENT HEADWALL AND EROSION PROTECTION (REFER TO PLAN SET 9)
 - 6a. CONNECTION TO EXISTING HEADWALL TO BE CARRIED OUT FOLLOWING AN APPROVED DRY WEATHER WINDOW BEING FORECASTED (REFER TO PLAN SET 9)
 7. CONSTRUCT SRP S3-2
 8. ESTABLISH DWD
 9. STRIP VEGETATION AND CARRY OUT ANY GROUND IMPROVEMENTS
 10. COMMENCE FILLING OPERATION AND STABILISE BATTER FACES PROGRESSIVELY



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



FOR BOI ISSUE

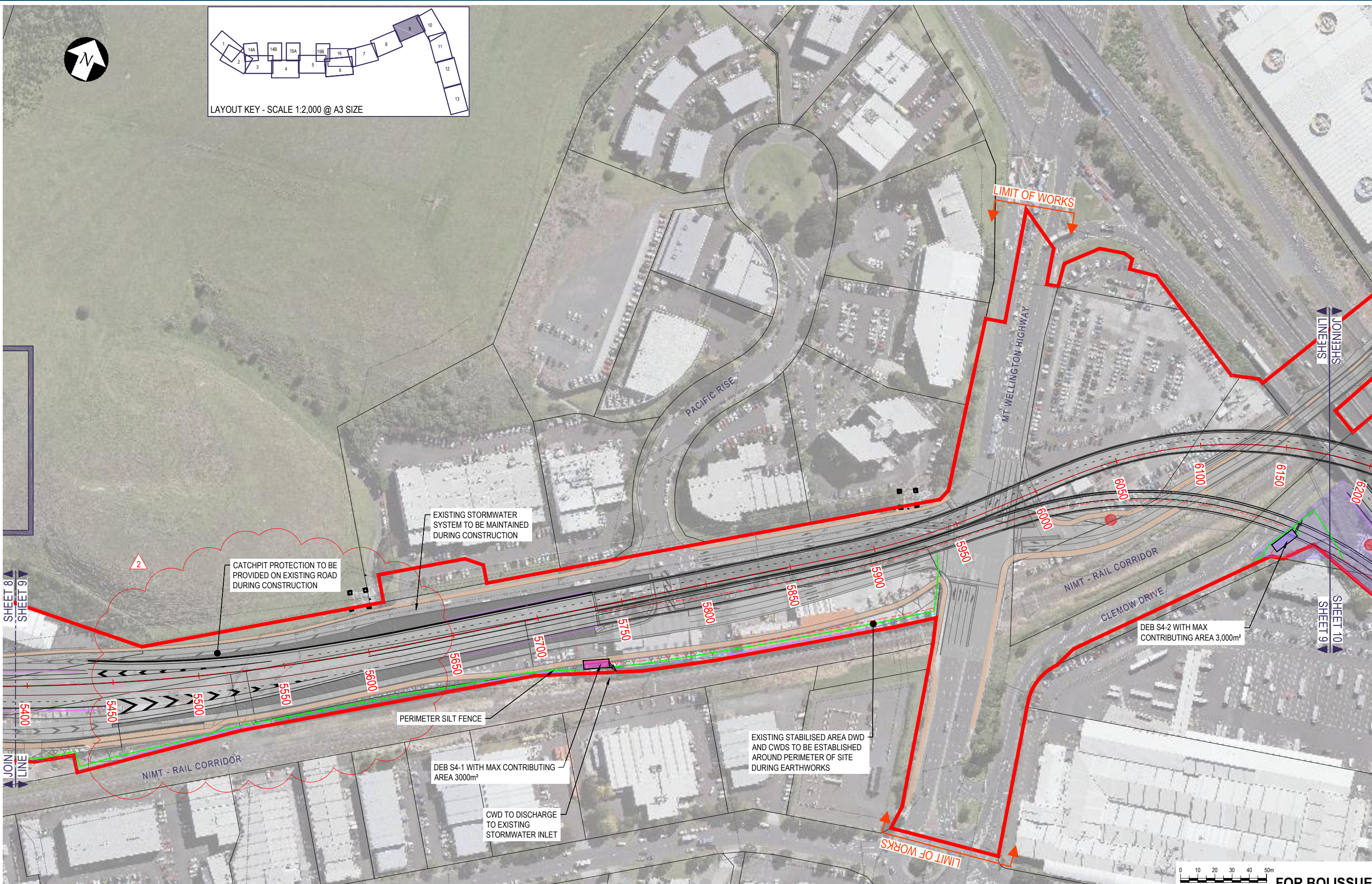
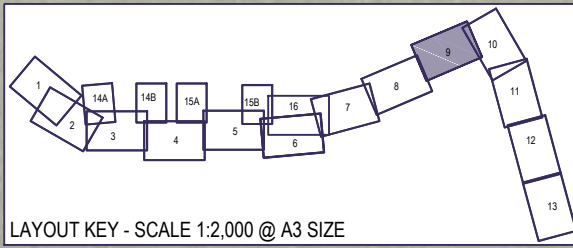
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	26.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL ANNS CREEK/ SYLVIA PARK ROAD SHEET 08		
Drawing Number	AEE-ES-108		
Rev No.	3		



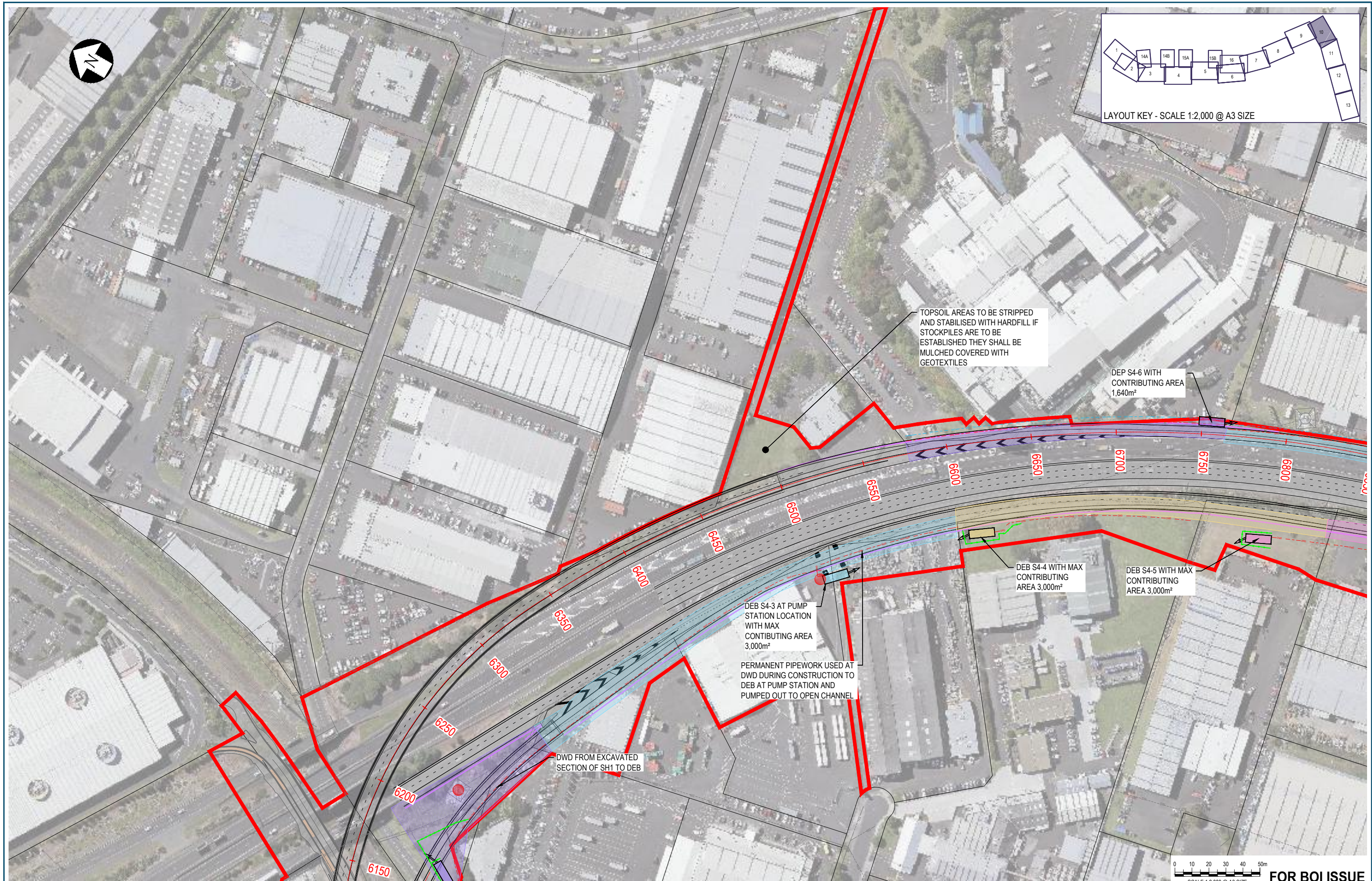
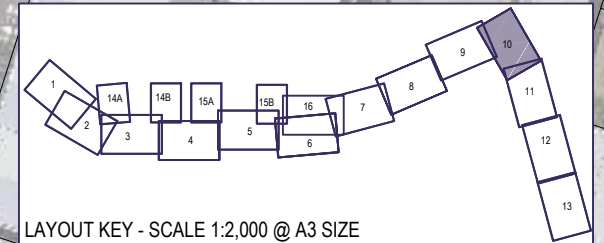
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SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

3	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
2	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL ANNS CREEK/ SYLVIA PARK ROAD SHEET 09		
Drawing Number	AEE-ES-109	Rev No.	3



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SCALE 1:2,000 @ A3 SIZE

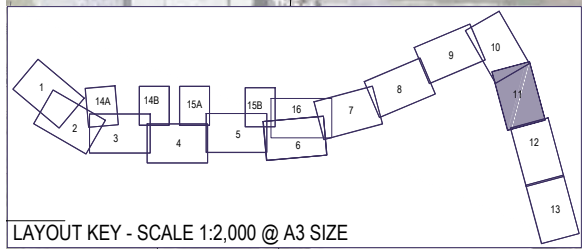
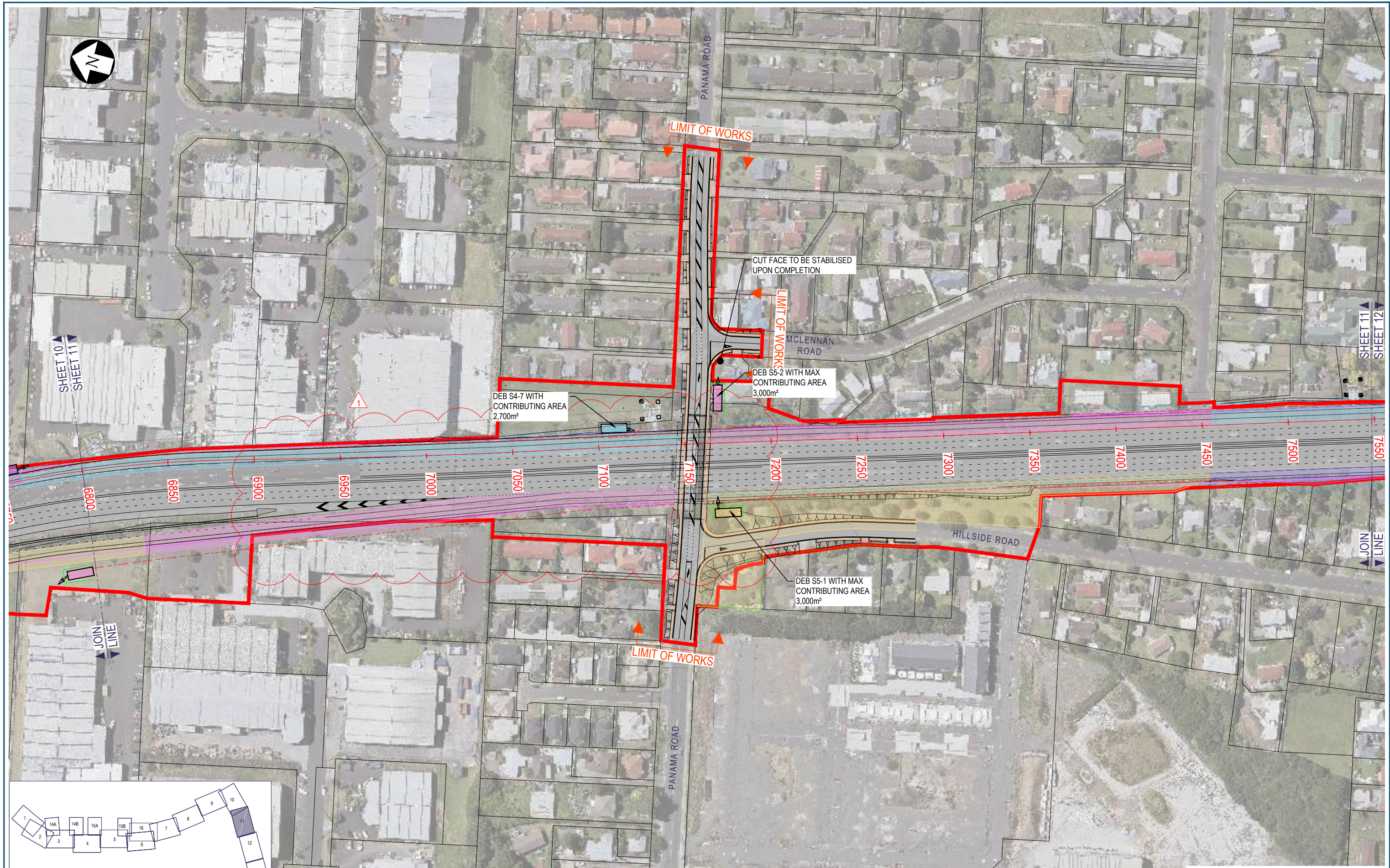
FOR BOI ISSUE

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ SYLVIA PARK RAMPS SHEET 10		
Drawing Number	AEE-ES-110	Rev No.	2



SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

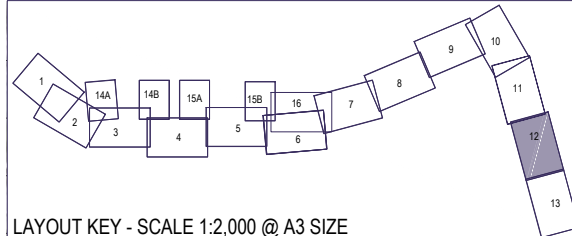
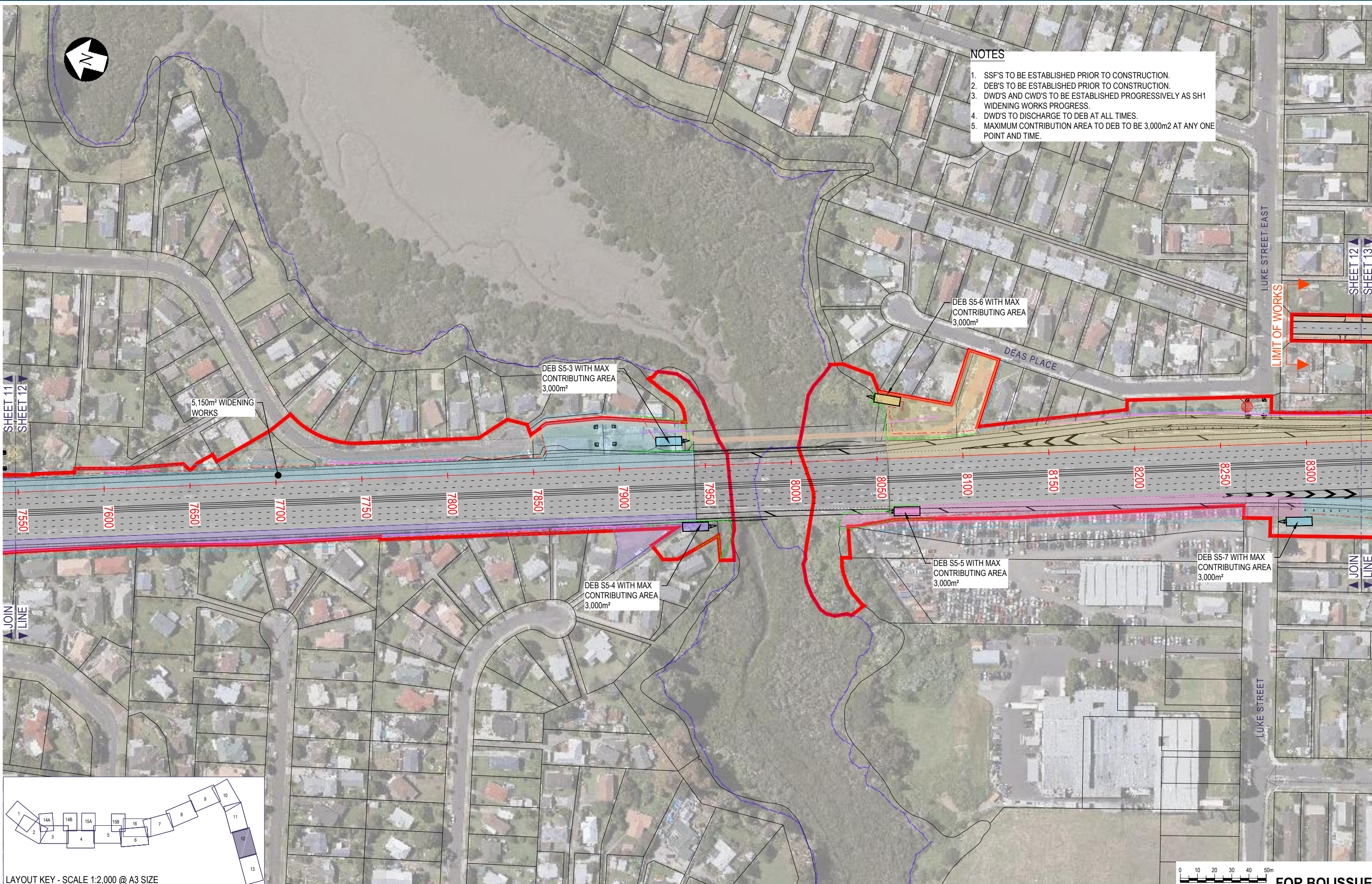
DISCLAIMER
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ PANAMA ROAD SHEET 11		
Drawing Number	AEE-ES-111	Rev No.	2

- NOTES**
1. SSF'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
 2. DEB'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
 3. DWD'S AND CWD'S TO BE ESTABLISHED PROGRESSIVELY AS SH1 WIDENING WORKS PROGRESS.
 4. DWD'S TO DISCHARGE TO DEB AT ALL TIMES.
 5. MAXIMUM CONTRIBUTION AREA TO DEB TO BE 3,000m² AT ANY ONE POINT AND TIME.



SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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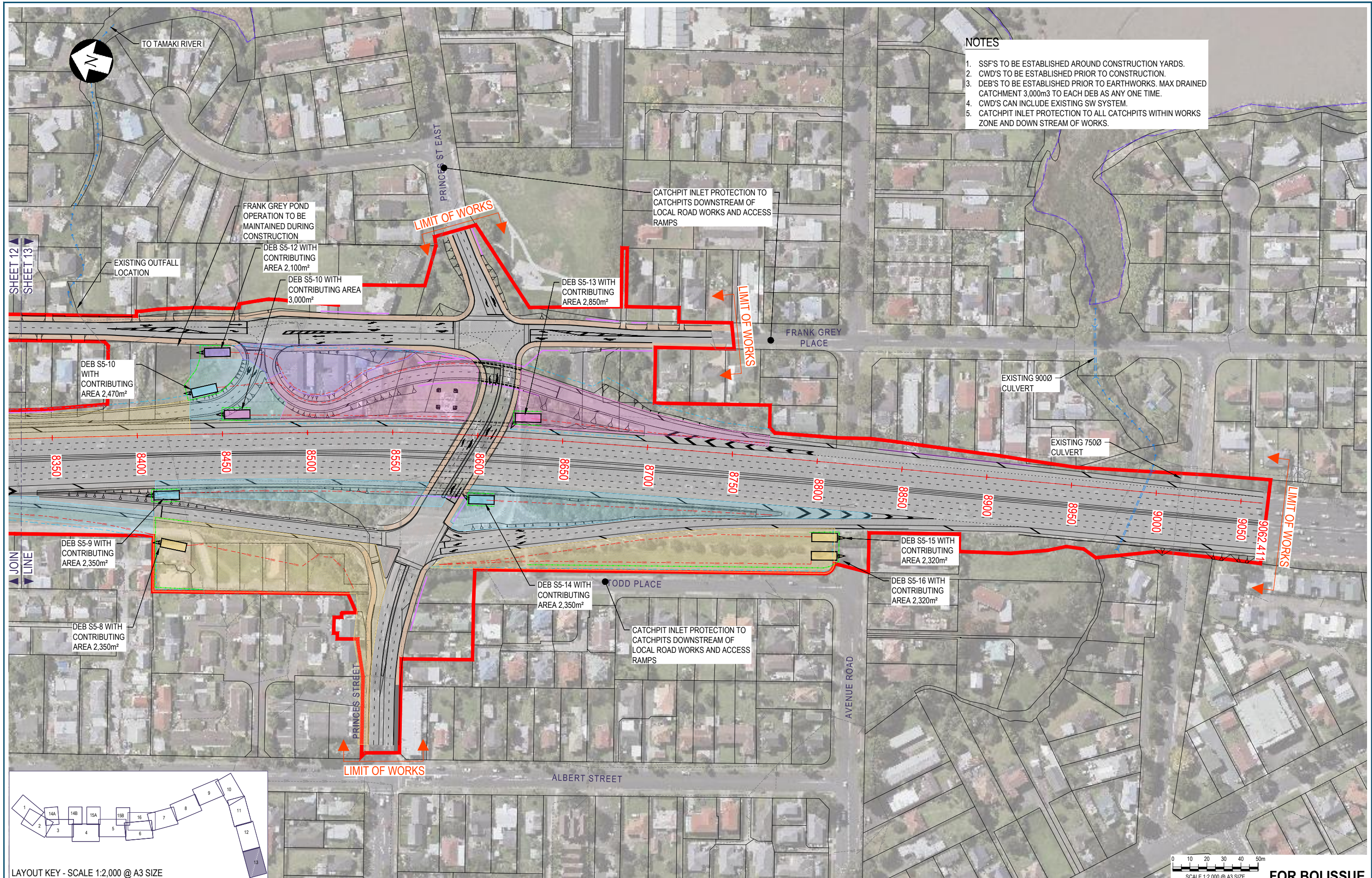


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ OTAHUHU CREEK SHEET 12		
Drawing Number	AEE-ES-112	Rev No.	2

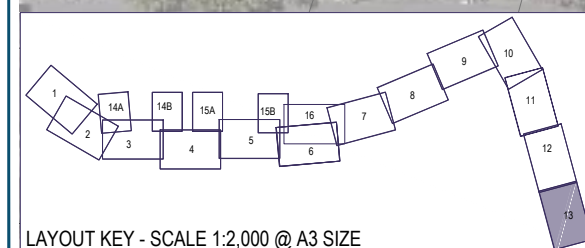
NOTES

1. SSF'S TO BE ESTABLISHED AROUND CONSTRUCTION YARDS.
2. CWD'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
3. DEB'S TO BE ESTABLISHED PRIOR TO EARTHWORKS. MAX DRAINED CATCHMENT 3,000m³ TO EACH DEB AS ANY ONE TIME.
4. CWD'S CAN INCLUDE EXISTING SW SYSTEM.
5. CATCHPIT INLET PROTECTION TO ALL CATCHPITS WITHIN WORKS ZONE AND DOWN STREAM OF WORKS.

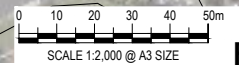


SHEET 12
SHEET 13

JOIN
LINE



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



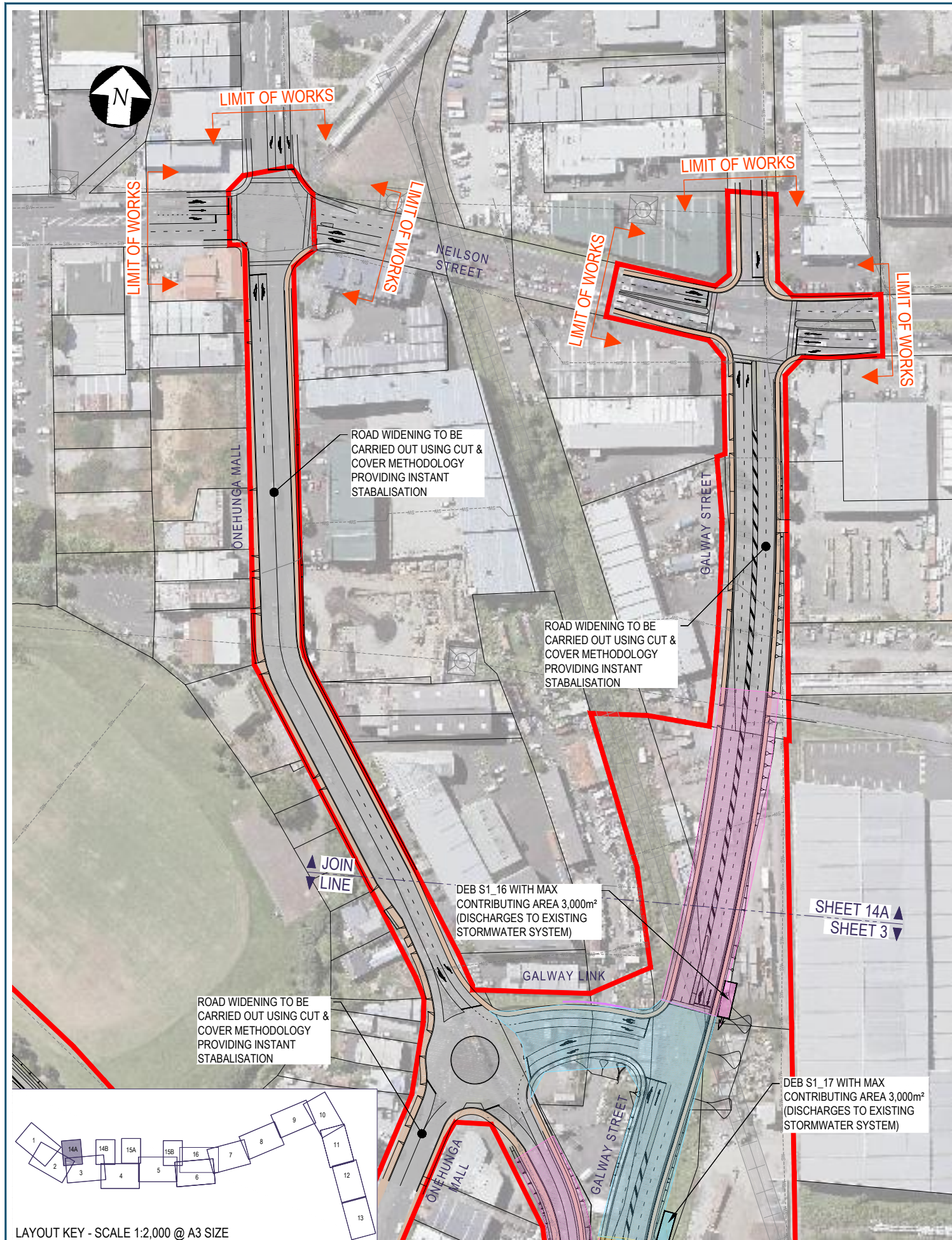
FOR BOI ISSUE

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	EROSION SEDIMENT CONTROL PRINCES ST INTERCHAGNE SHEET 13		
Drawing Number	AEE-ES-113		
Rev No.	2		



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

FOR BOI ISSUE

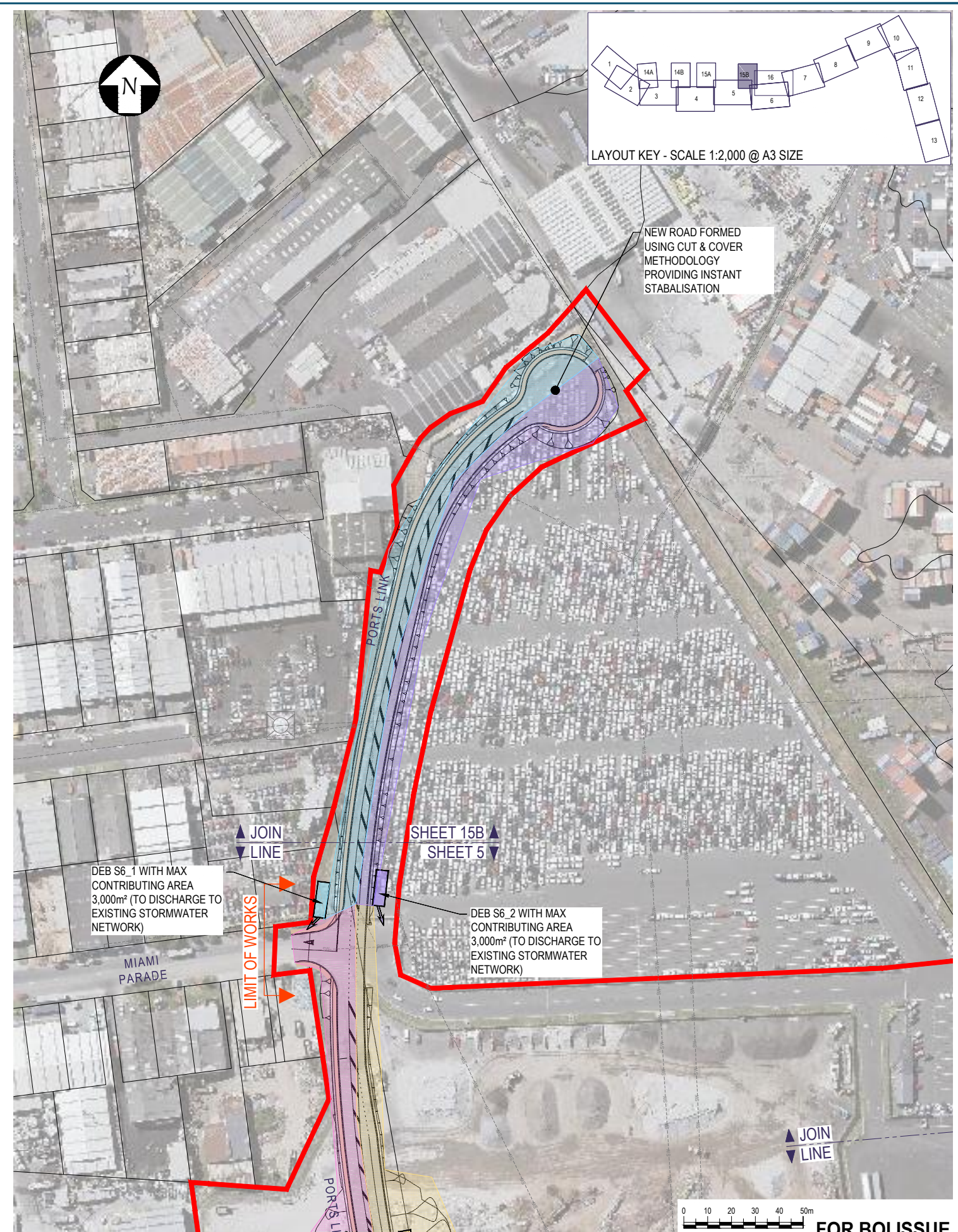
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1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY				
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE - LOCAL ROADS SHEET 14A & 14B		
Drawing Number	AEE-ES-114		
Rev No.	2		



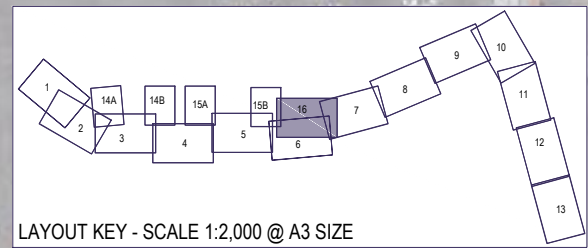
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	26.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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NZ TRANSPORT AGENCY
 WAIKATO
East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL CAPTAIN SPRINGS ROAD/ PORTS LINK SHEET 15A & 15B		
Drawing Number	AEE-ES-115	Rev No.	2



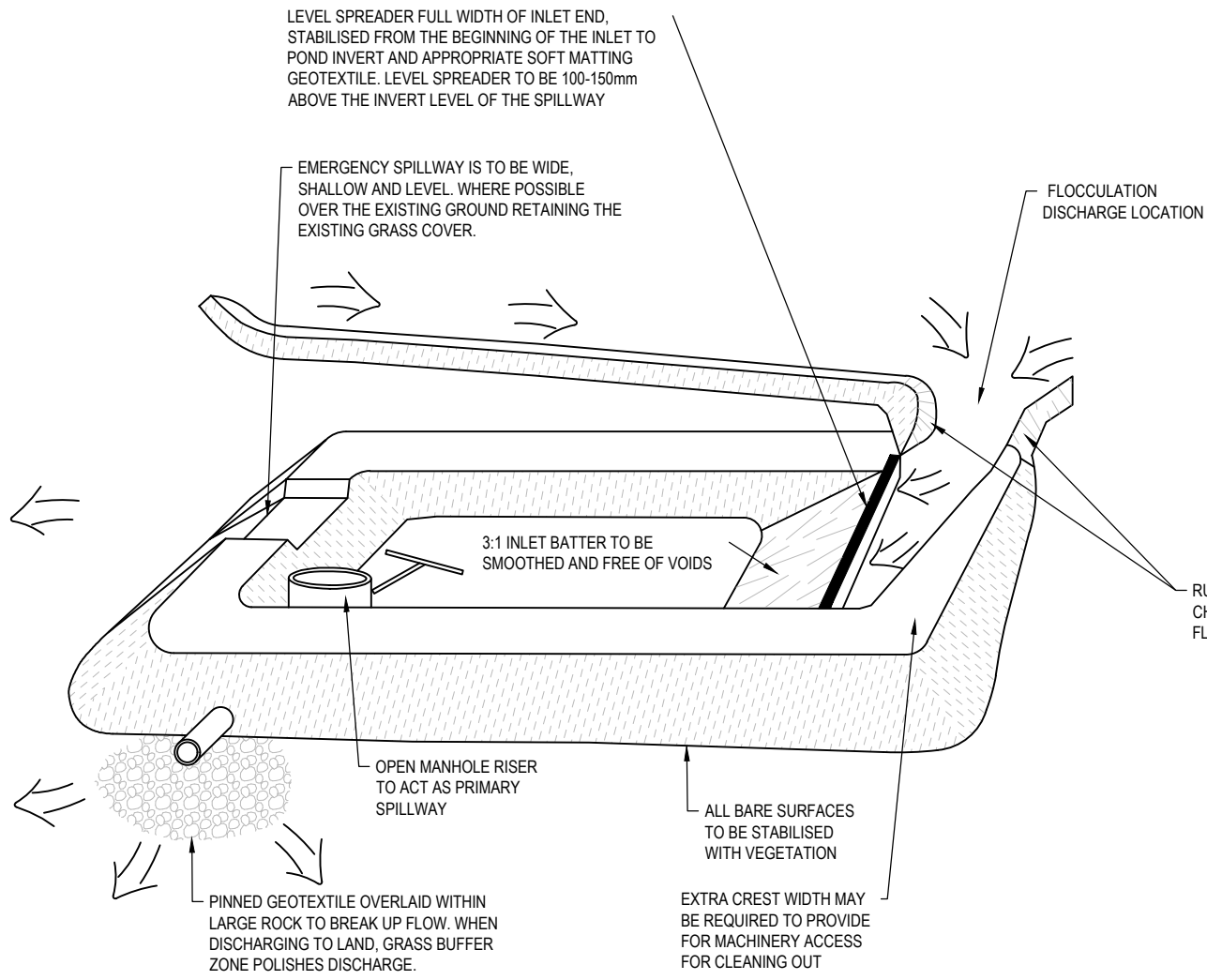
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SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

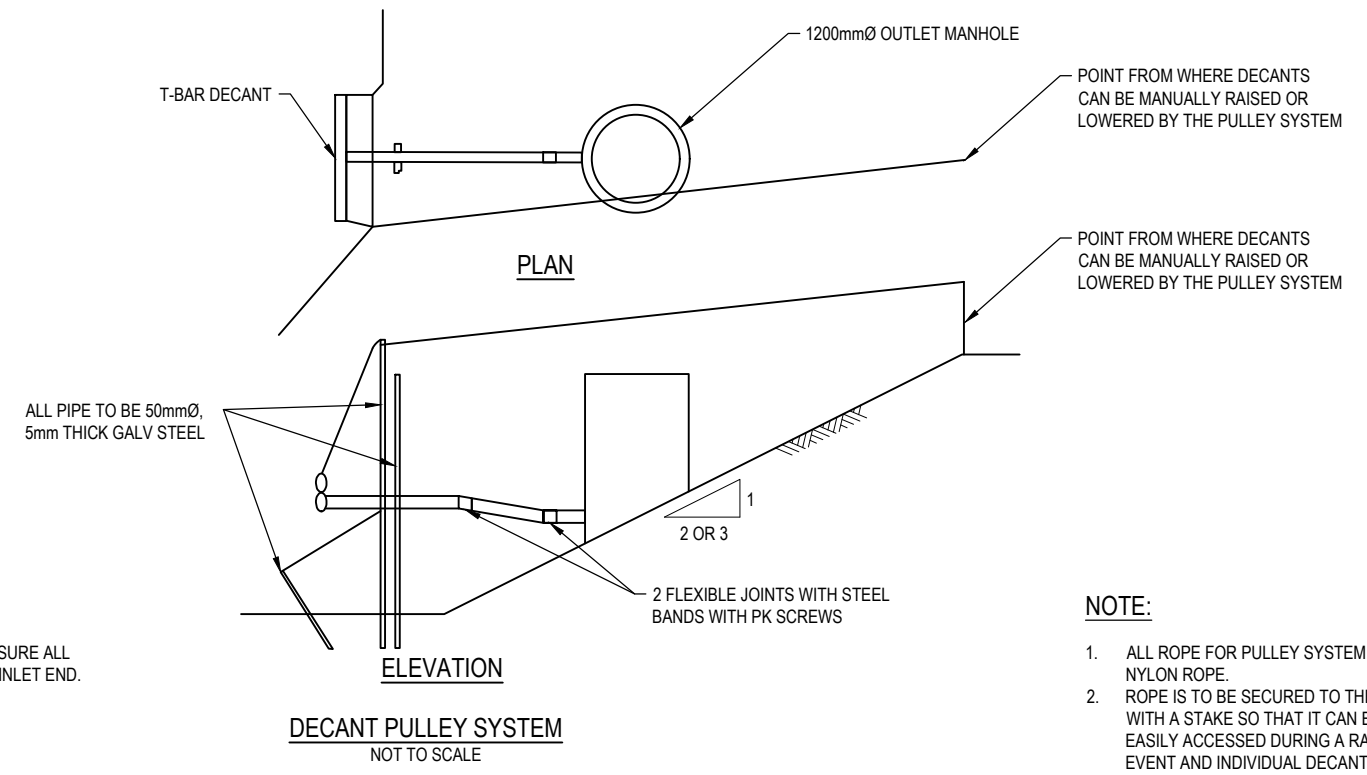
DISCLAIMER
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

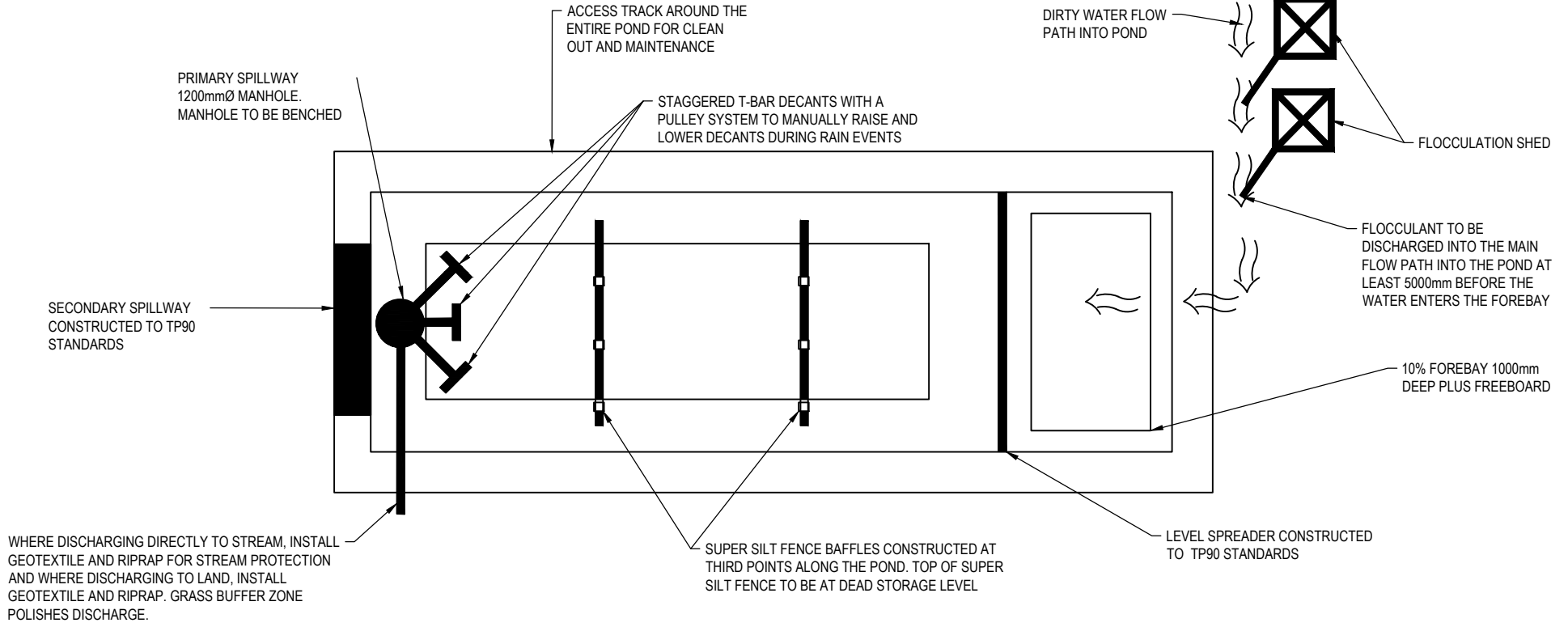
Drawing Title	EROSION SEDIMENT CONTROL EMBANKMENT SHEET 16		
Drawing Number	AEE-ES-116	Rev No.	2



TYPICAL SEDIMENT RETENTION POND
NOT TO SCALE



- NOTE:**
1. ALL ROPE FOR PULLEY SYSTEM TO BE NYLON ROPE.
 2. ROPE IS TO BE SECURED TO THE BANK WITH A STAKE SO THAT IT CAN BE EASILY ACCESSED DURING A RAIN EVENT AND INDIVIDUAL DECANTS CAN BE MANUALLY RAISED OR LOWERED.



SEDIMENT RETENTION POND TYPICAL DETAILS
NOT TO SCALE

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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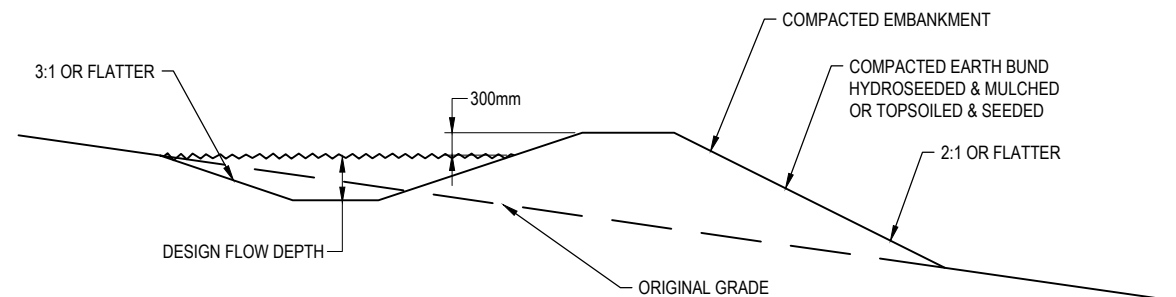
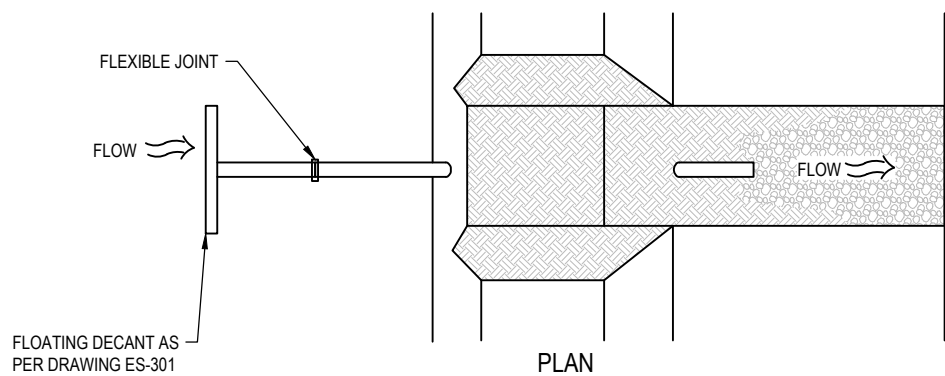
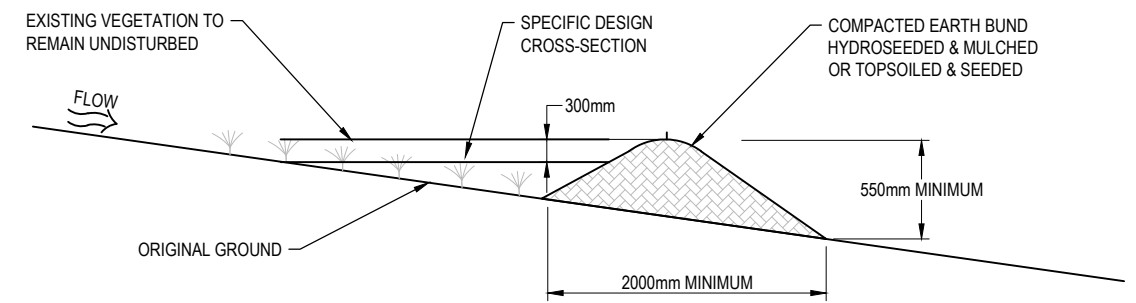
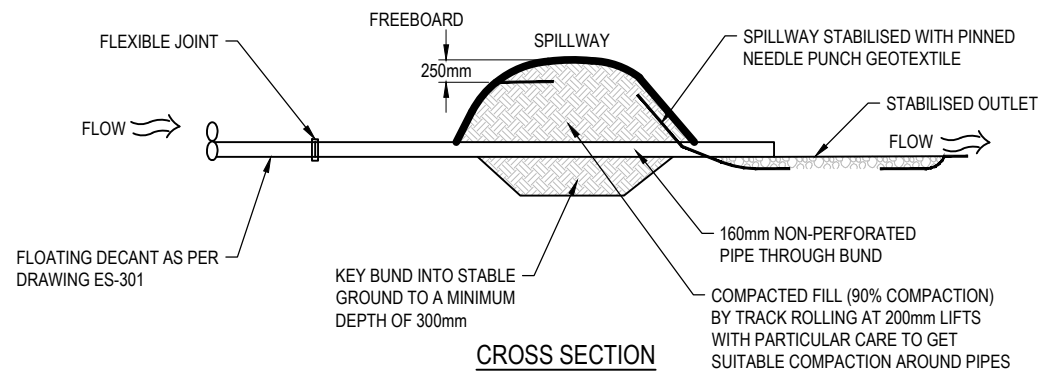
NZ TRANSPORT AGENCY
WAIKA MOTAH

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 01 OF 05		
Drawing Number	AEE-ES-301	Rev No.	2

FOR BOI ISSUE



DECANTING EARTH BUND
NOT TO SCALE

NOTE:
1. CHEMICAL TREATMENT (FLOCCULATION) TO BE PROVIDED FOR ALL DECANTING EARTH BUNDS

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

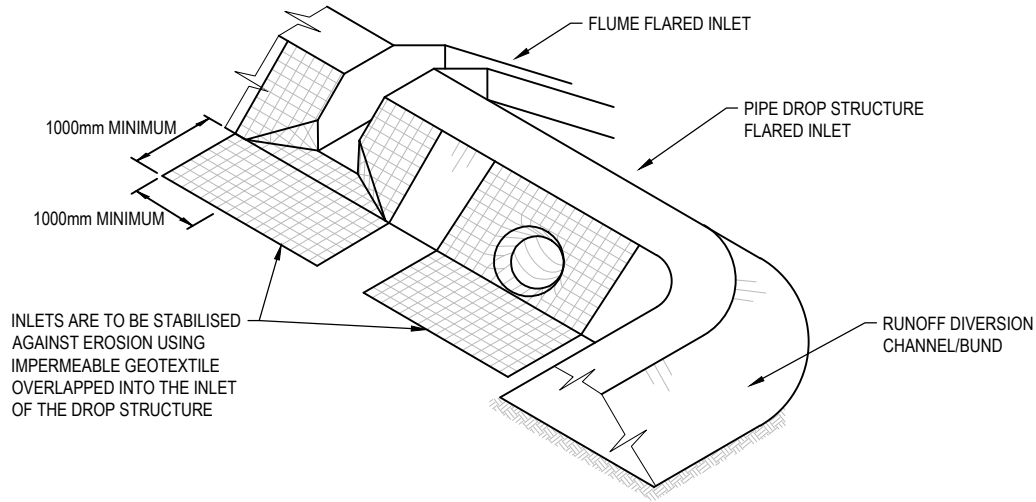
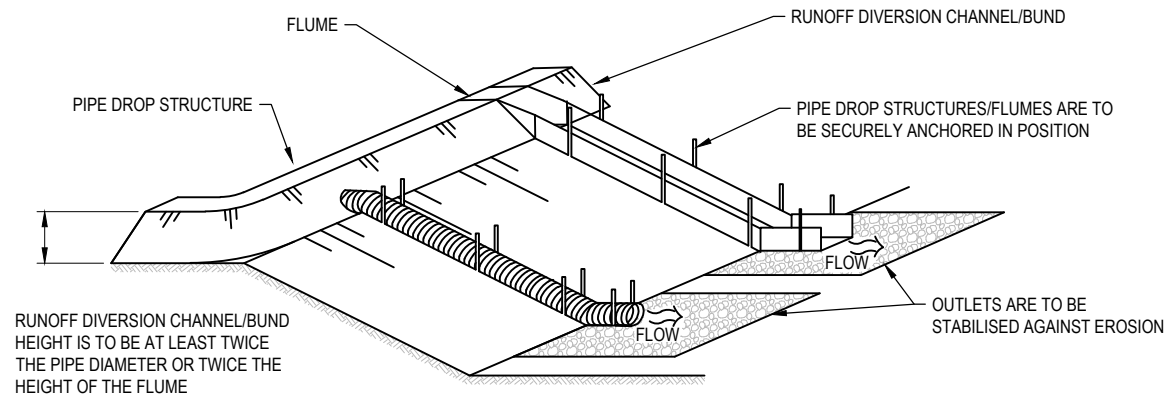
DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 02 OF 05	Drawing Number AEE-ES-302	Rev No. 2
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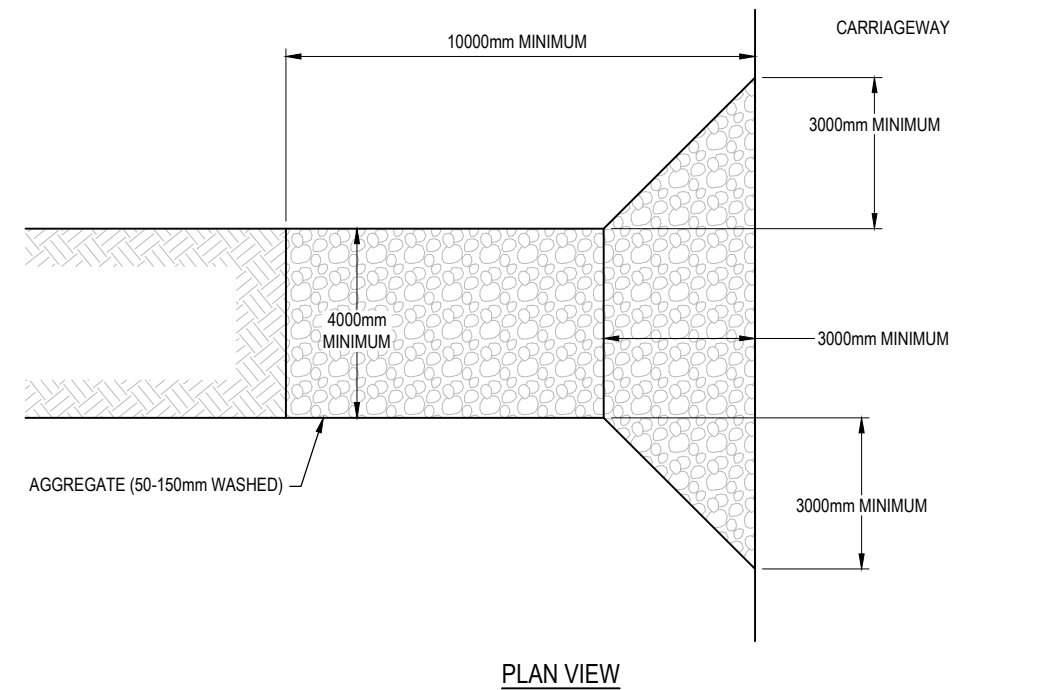
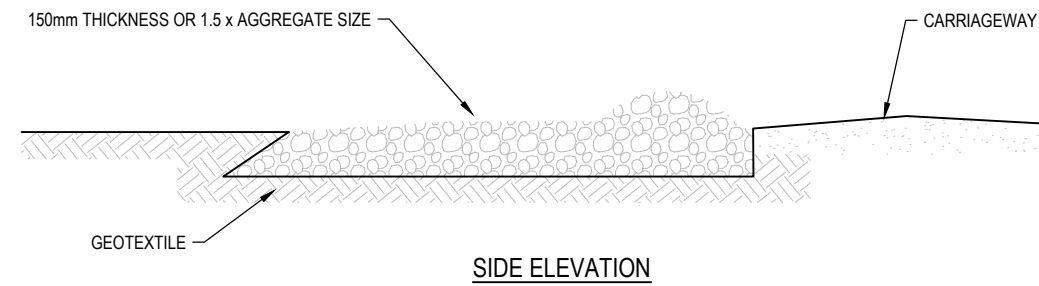
FOR BOI ISSUE



TP90 DESIGN CRITERIA FOR PIPE DROP STRUCTURE	
PIPE DIAMETER (mm)	MAXIMUM CATCHMENT AREA (ha)
150	0.05
300	0.20
450	0.60
500	1.00
600	1.00

SPECIFIC DESIGNS ARE REQUIRED FOR FLUME SIZING

PIPE DROP / FLUME STRUCTURE
NOT TO SCALE



STABILISED CONSTRUCTION ENTRANCE
NOT TO SCALE

FOR BOI ISSUE

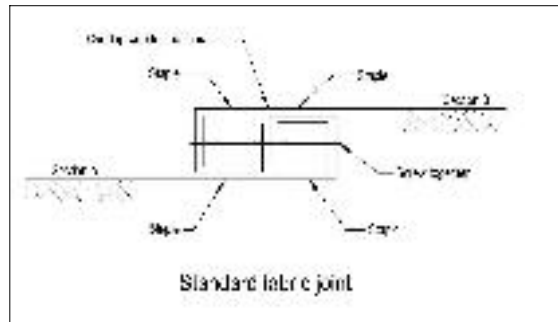
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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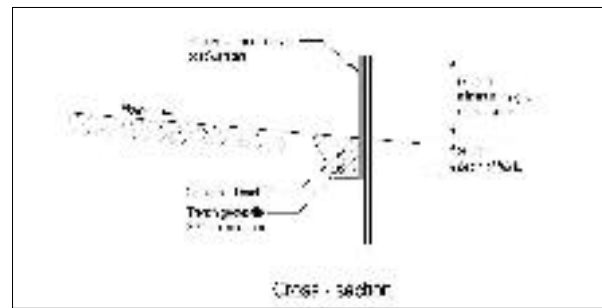
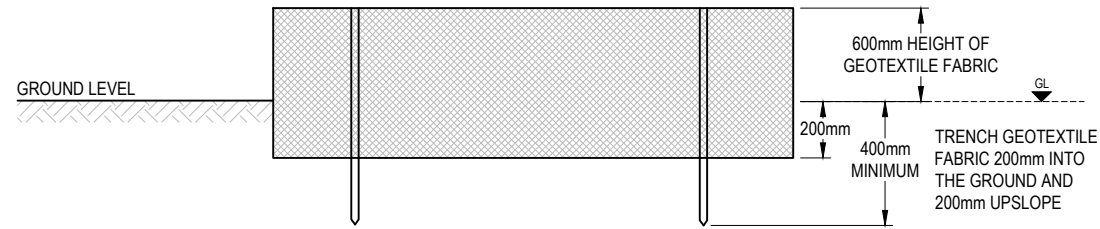


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

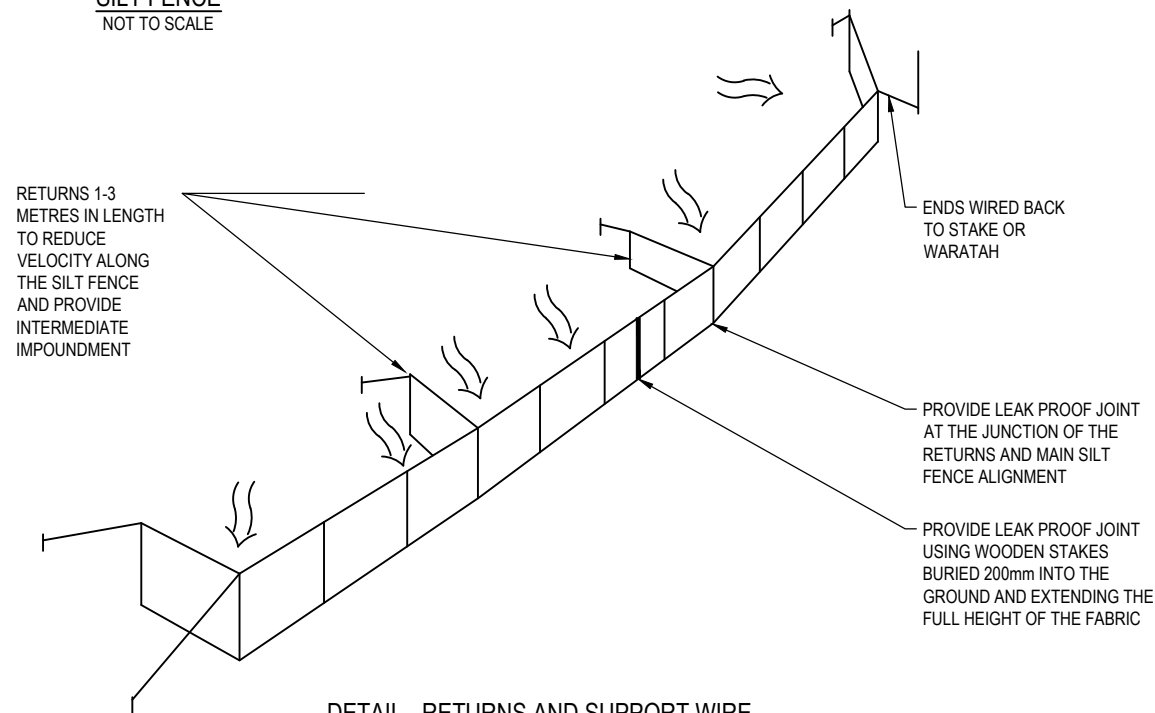
Drawing Title	EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 03 OF 05		
Drawing Number	AEE-ES-303		
Rev No.	2		



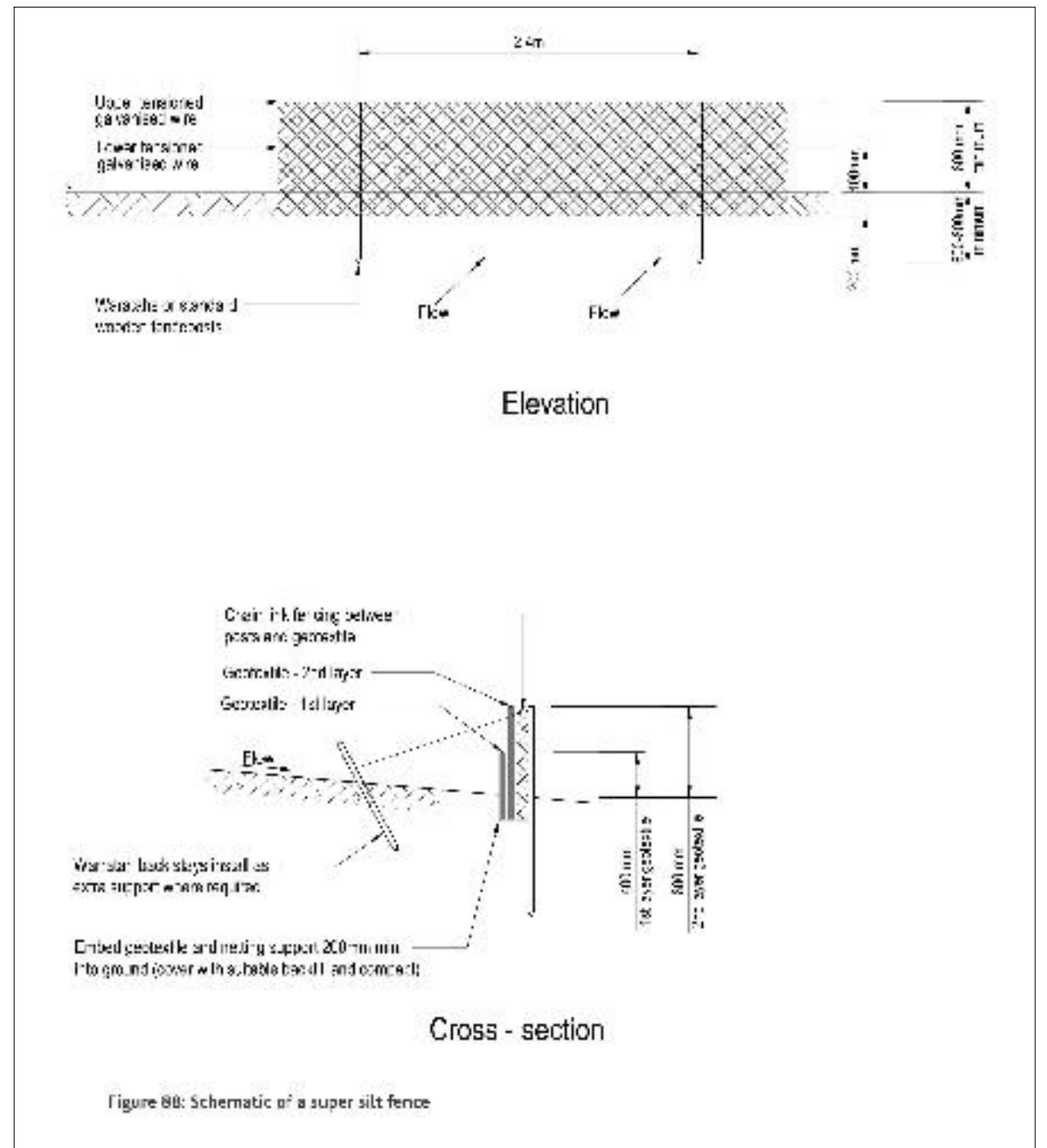
POST SPACING CAN BE INCREASED FROM 2000mm TO 4000mm IF SUPPORTED BY A 2.5mm DIAMETER HIGH TENSILE WIRE ALONG THE TOP WITH CLIPS EVERY 200mm



SILT FENCE
NOT TO SCALE



DETAIL - RETURNS AND SUPPORT WIRE
FOR SILT FENCE & SUPER SILT FENCE
NOT TO SCALE



SUPER SILT FENCE
NOT TO SCALE

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

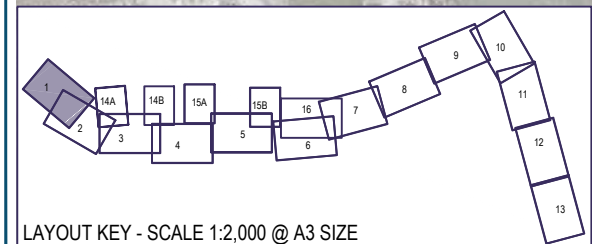
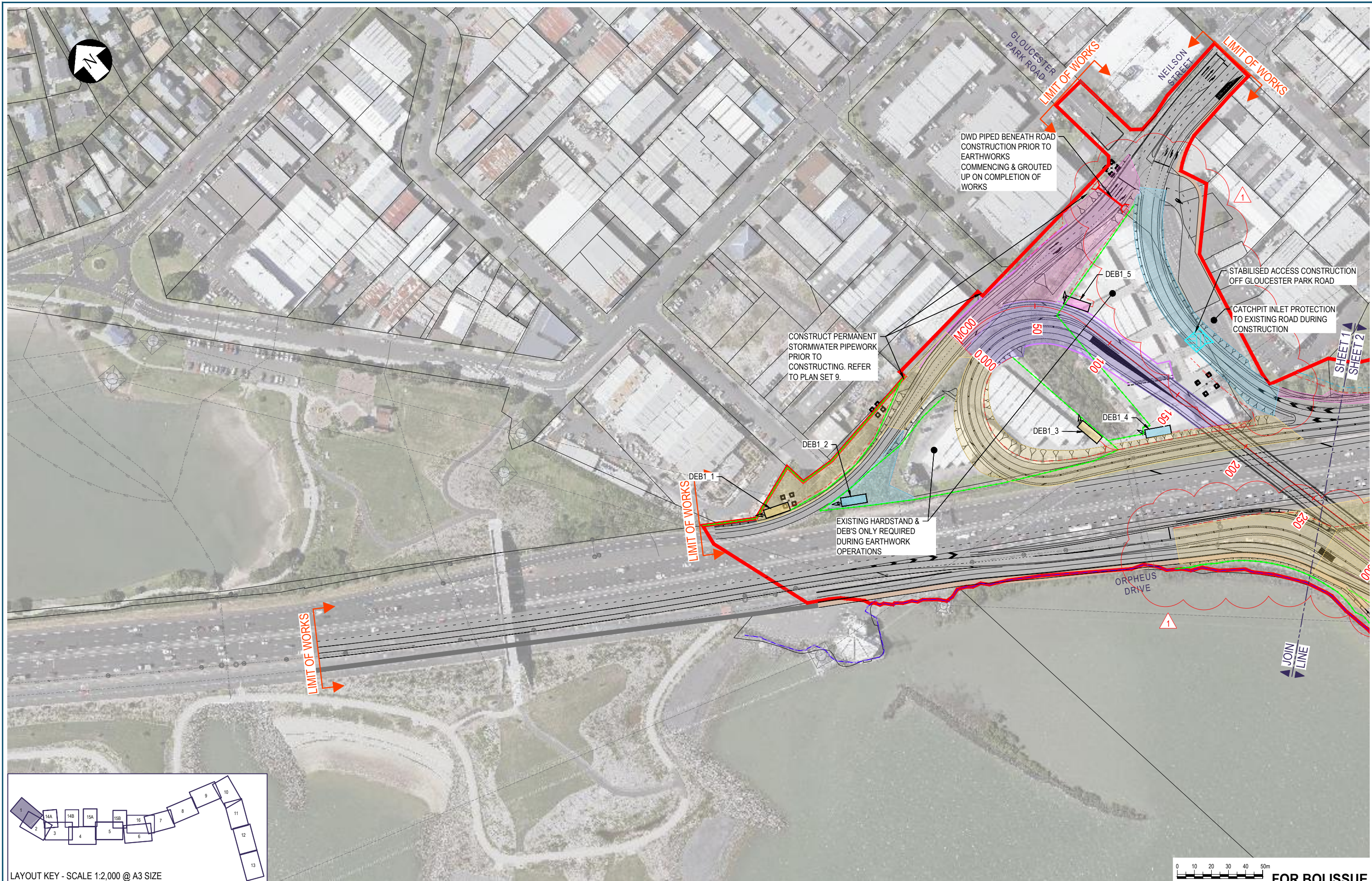
DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 04 OF 05	Drawing Number AEE-ES-304	Rev No. 2
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FOR BOI ISSUE



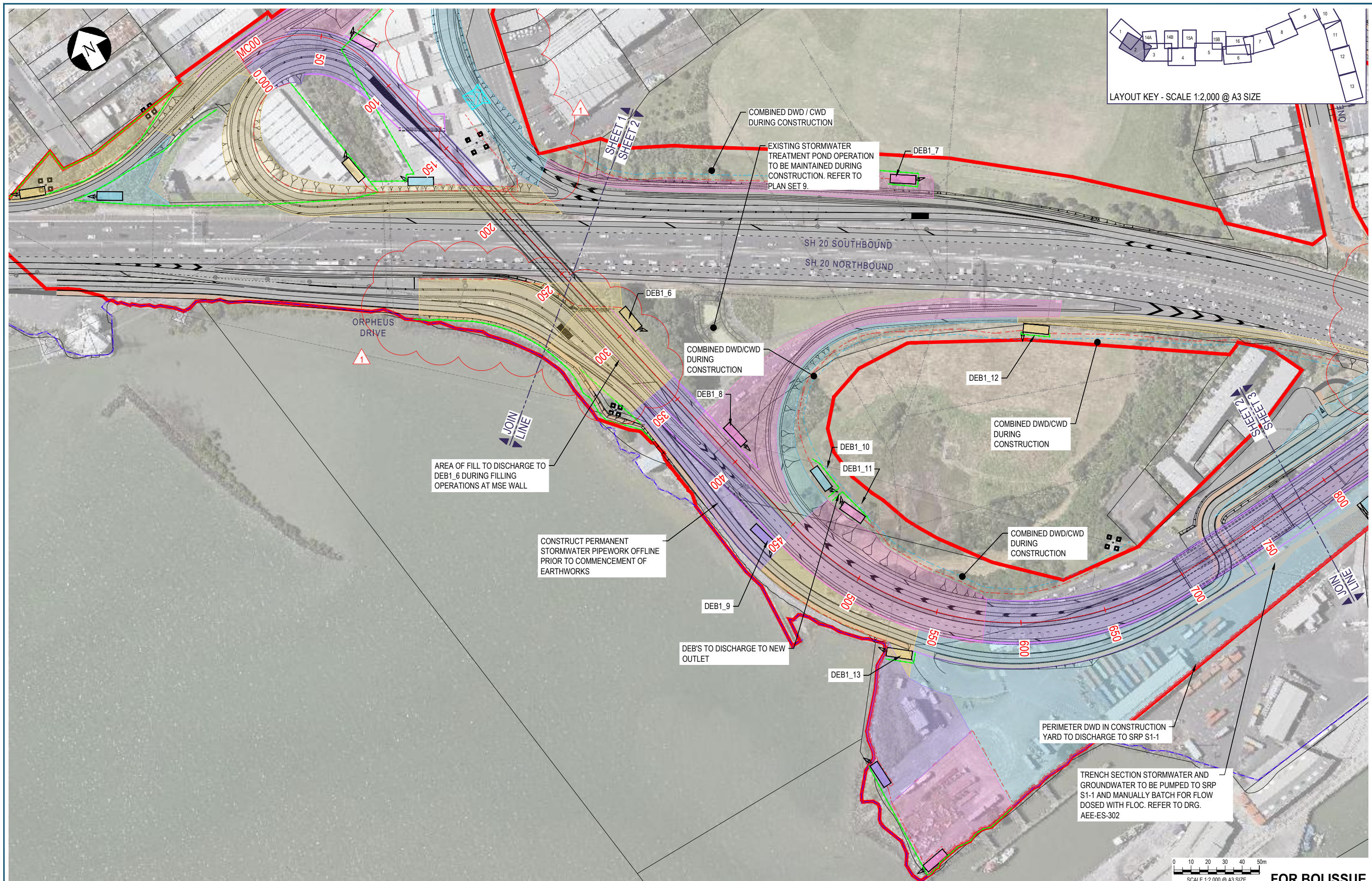
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SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN	JC	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE SHEET 01		
Drawing Number	AEE-ES-101		
Rev No.	2		



No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

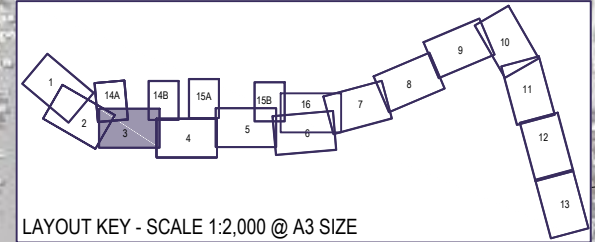
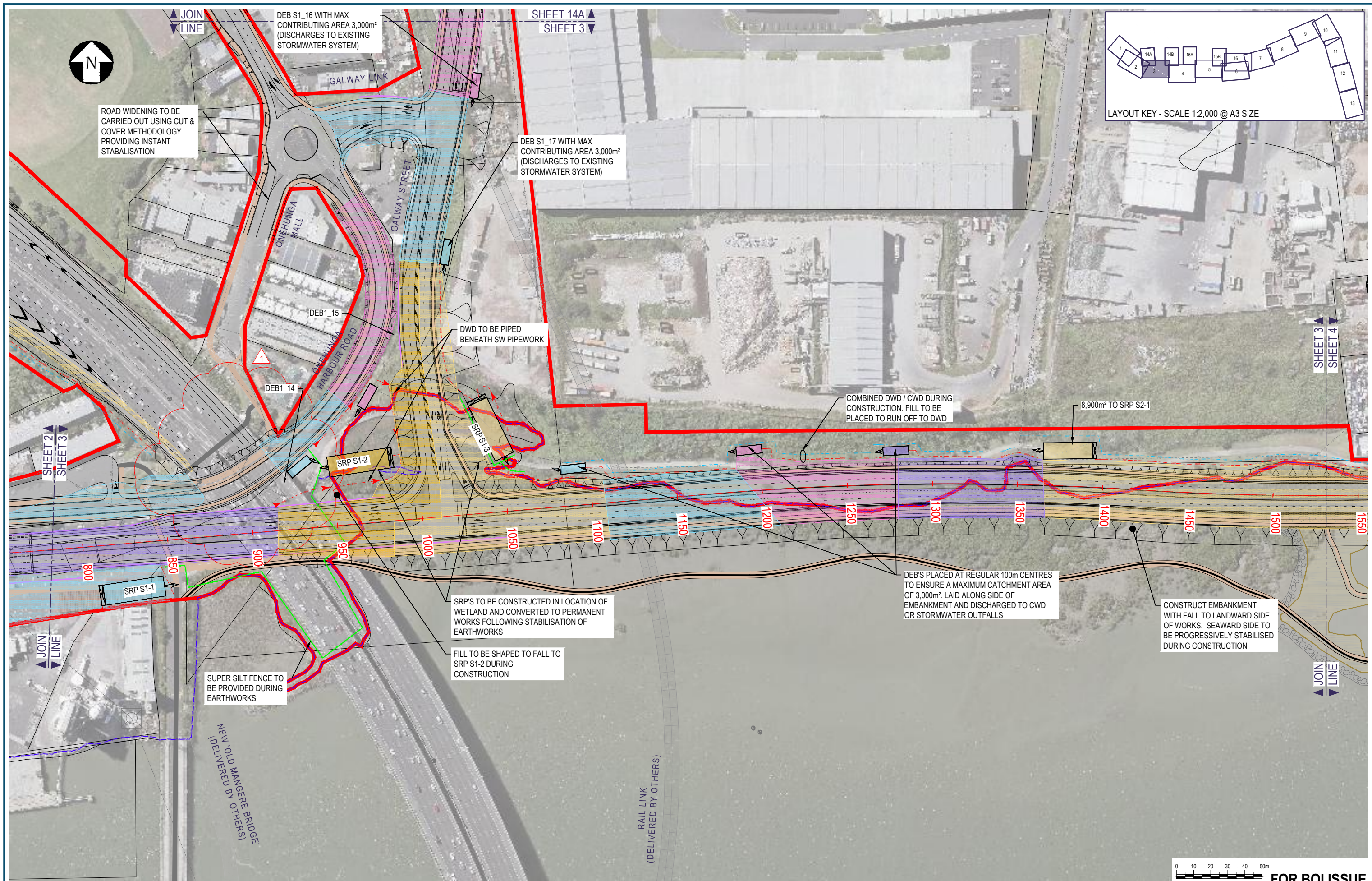
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NZ TRANSPORT AGENCY
 WAIKA KOTAHU

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE SHEET 02	
Drawing Number	AEE-ES-102	Rev No. 2



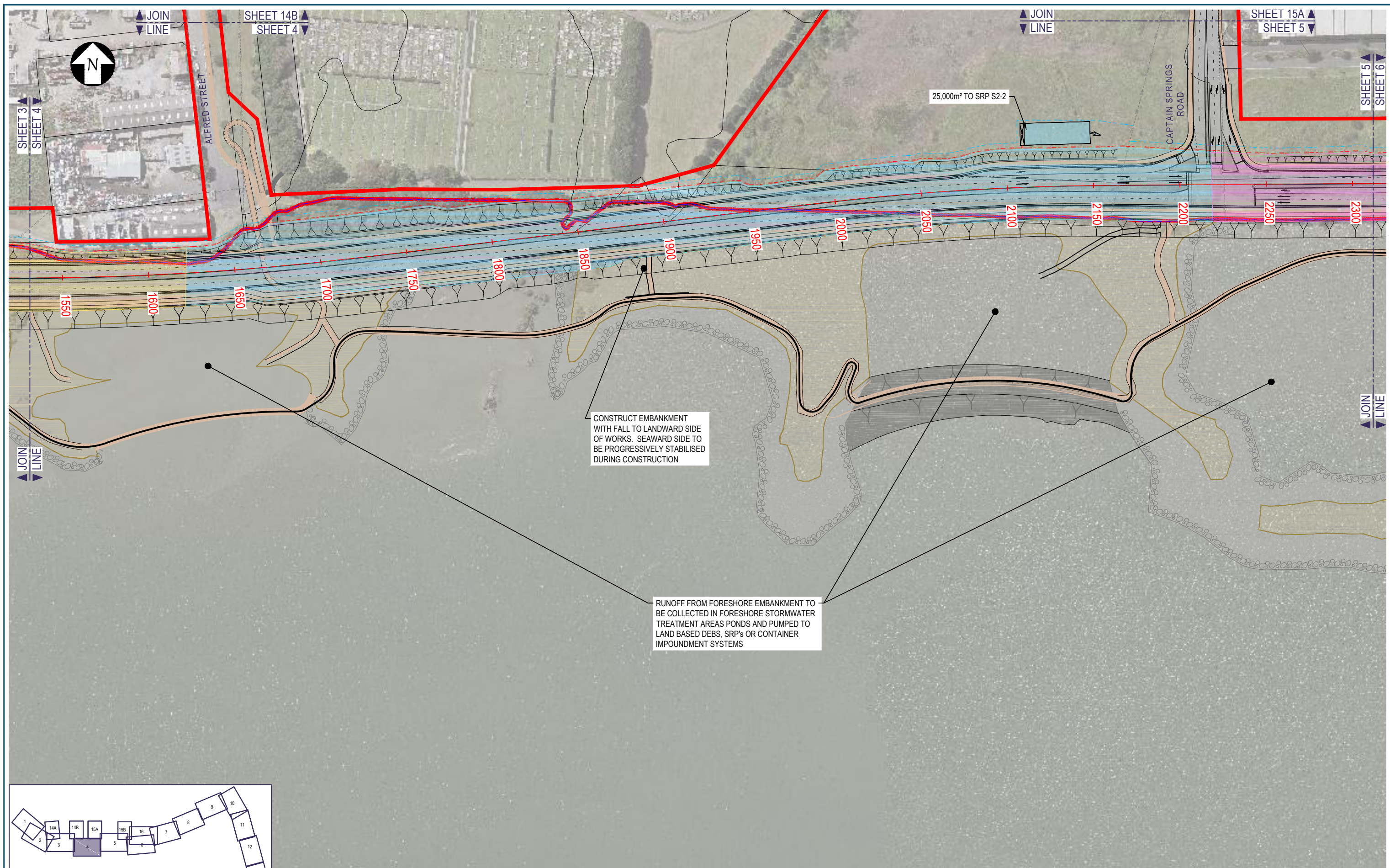
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SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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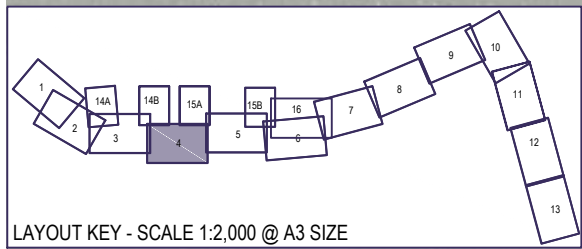
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY				
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL EAST WEST LINK/ GALWAY STREET SHEET 03		
Drawing Number	AEE-ES-103	Rev No.	2



CONSTRUCT EMBANKMENT WITH FALL TO LANDWARD SIDE OF WORKS. SEAWARD SIDE TO BE PROGRESSIVELY STABILISED DURING CONSTRUCTION

RUNOFF FROM FORESHORE EMBANKMENT TO BE COLLECTED IN FORESHORE STORMWATER TREATMENT AREAS PONDS AND PUMPED TO LAND BASED DEBS, SRP's OR CONTAINER IMPOUNDMENT SYSTEMS



FOR BOI ISSUE

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL EMBANKMENT SHEET 04	Drawing Number AEE-ES-104	Rev No. 2
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- MIAMI STREAM EROSION AND SEDIMENT CONTROL**
1. CONSTRUCT NEW OUTFALL WITH PIPEWORK AND NON RETURN VALVE DURING LOW TIDE.
 2. CONSTRUCT BYPASS CHANNEL FOR THE FOREBAY DESIGN AND STABILISE WITH PERIMETER CONTROLS (SFF, DEB & CWD).
 3. TRANSFER FLOWS TO BYPASS CHANNEL TO ALLOW FOR A "DRY" WORKING AREA TO CONSTRUCT WETLAND.
 4. SEAL OFF EXISTING OUTFALL TO PREVENT TIDAL INGRESS DURING CONSTRUCTION OF WETLAND.
 5. REMOVE UNSUITABLE MATERIAL TO APPROXIMATELY MANAGED TIP FACILITY. GROUNDWATER/STORMWATER TO BE PUMPED TO DEB6_1 DURING CONSTRUCTION.
 6. CONSTRUCT BIOFILTRATION AREA & OUTLET STRUCTURES WITH SEAL/PLUG OUTLET PIPEWORK TO PREVENT TIDAL INGRESS DURING CONSTRUCTION.
 7. CONSTRUCT WETLAND AREA.
 8. CONSTRUCT FOREBAY.
 9. ONCE WETLAND IS ESTABLISHED AND STABILISED, REMOVE SEAL/PLUG FROM OUTLET AND TRANSFER FLOWS TO WETLAND.

SHEET 5
SHEET 6

JOIN
LINE

14,700m² TO SRP S2-3

DEB S6_3 WITH MAX CONTRIBUTING AREA 3,000m² (TO DISCHARGE TO CWD).

DEB S6_4 WITH MAX CONTRIBUTING AREA 3,000m² (TO DISCHARGE TO CWD).

EXISTING SW OUTFALL & PIPEWORK

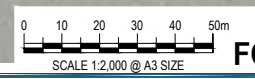
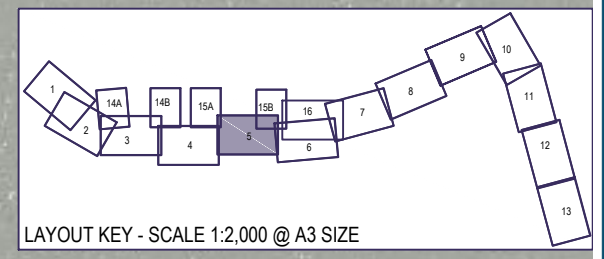
CONSTRUCT EMBANKMENT WITH FALL TO LANDWARD SIDE OF WORKS. SEAWARD SIDE TO BE PROGRESSIVELY STABILISED DURING CONSTRUCTION

JOIN
LINE
LIMIT OF WORKS

SHEET 15B
SHEET 5

SHEET 5
SHEET 6

JOIN
LINE



FOR BOI ISSUE

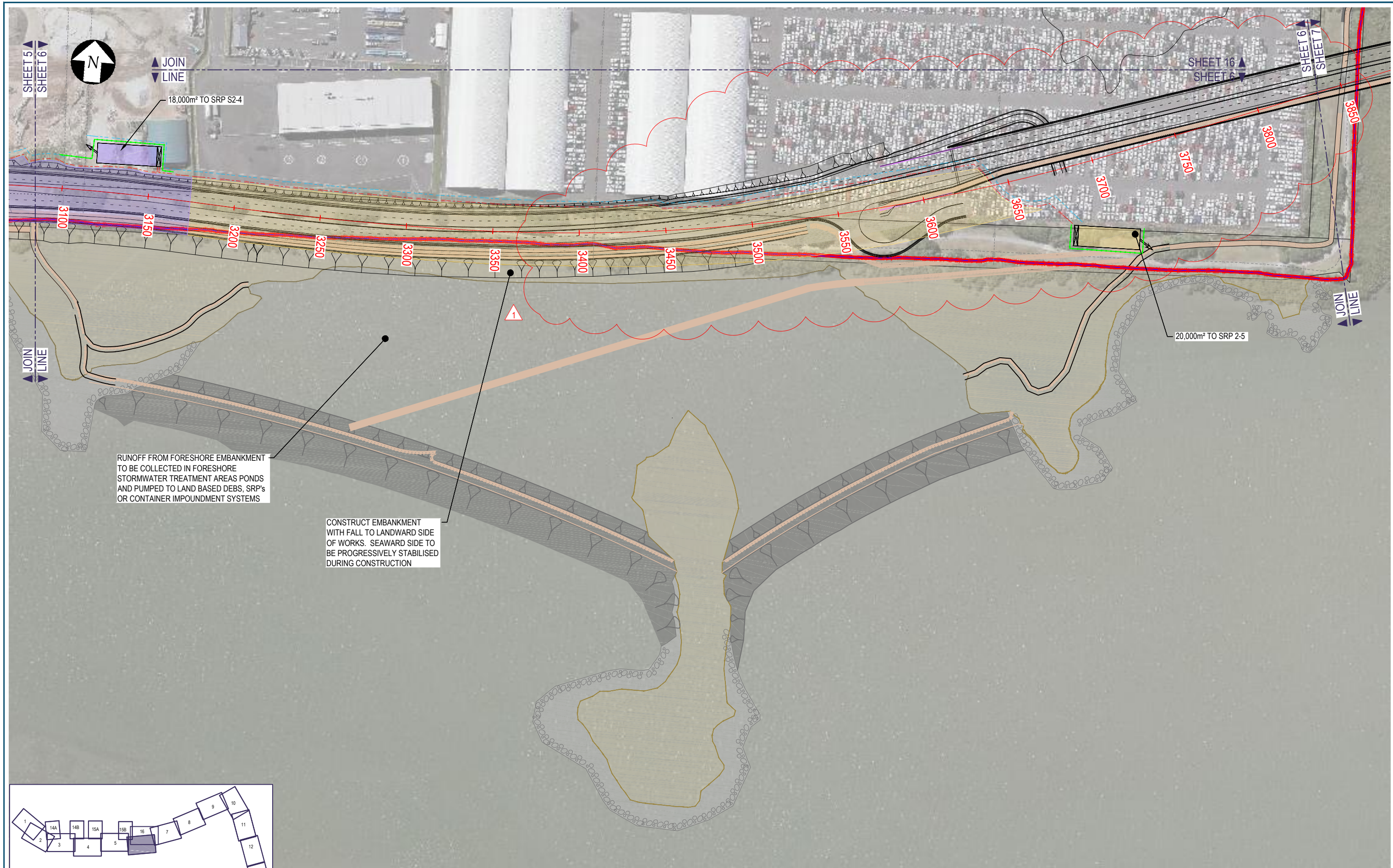
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1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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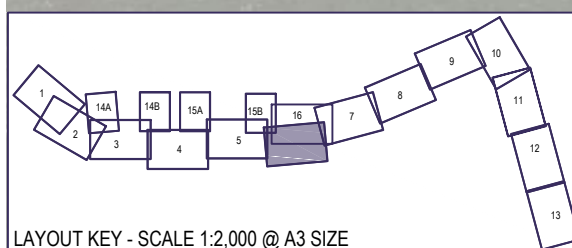
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL EMBANKMENT SHEET 05		
Drawing Number	AEE-ES-105		
Rev No.	2		



RUNOFF FROM FORESHORE EMBANKMENT TO BE COLLECTED IN FORESHORE STORMWATER TREATMENT AREAS PONDS AND PUMPED TO LAND BASED DEBS, SRP's OR CONTAINER IMPOUNDMENT SYSTEMS

CONSTRUCT EMBANKMENT WITH FALL TO LANDWARD SIDE OF WORKS. SEAWARD SIDE TO BE PROGRESSIVELY STABILISED DURING CONSTRUCTION



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



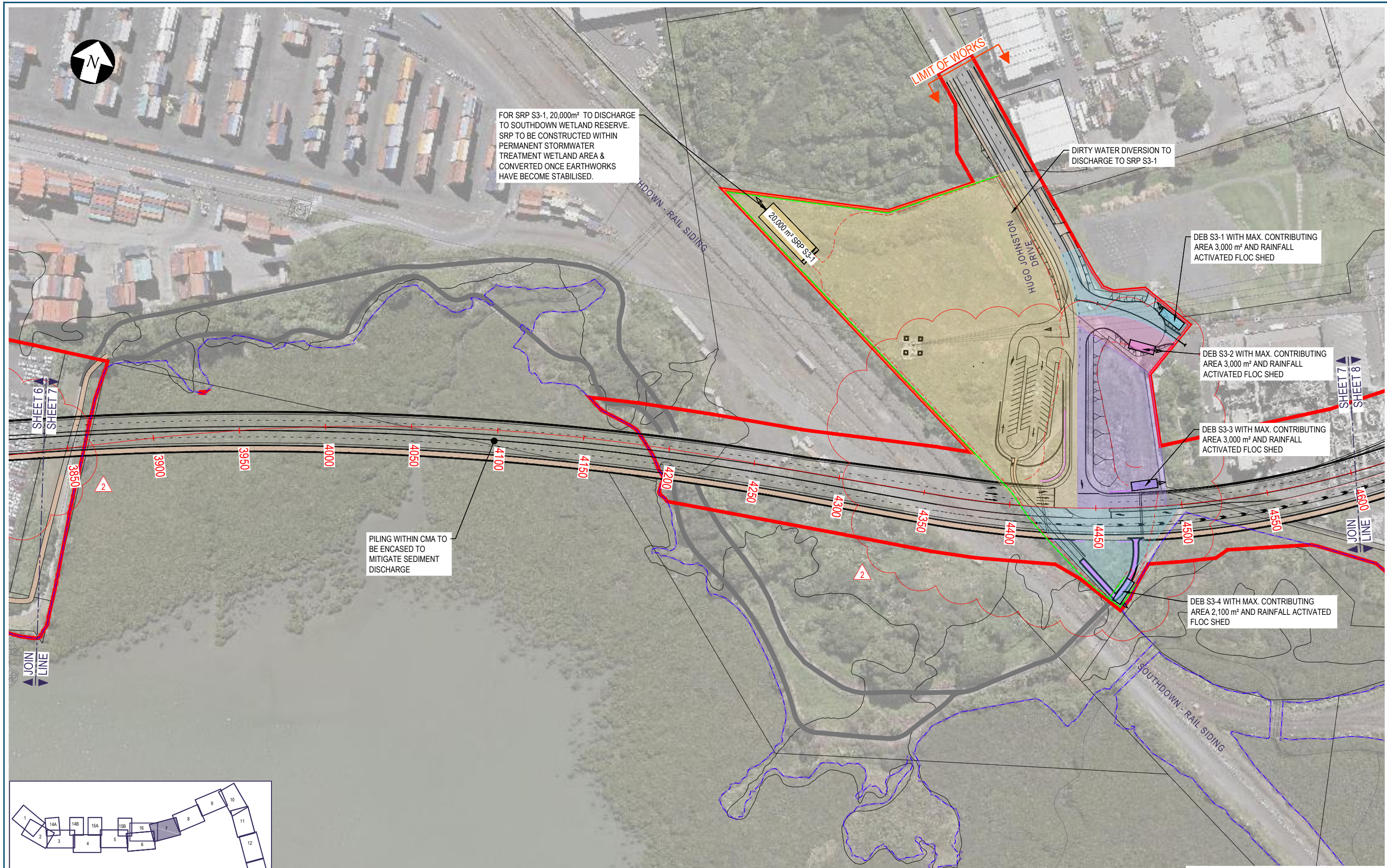
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	26.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL ANNS CREEK/ ANNS CREEK SHEET 06	Drawing Number AEE-ES-106	Rev No. 2
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FOR SRP S3-1, 20,000m² TO DISCHARGE TO SOUTHDOWN WETLAND RESERVE. SRP TO BE CONSTRUCTED WITHIN PERMANENT STORMWATER TREATMENT WETLAND AREA & CONVERTED ONCE EARTHWORKS HAVE BECOME STABILISED.

DIRTY WATER DIVERSION TO DISCHARGE TO SRP S3-1

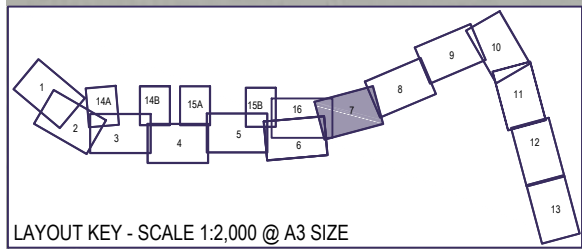
DEB S3-1 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

DEB S3-2 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

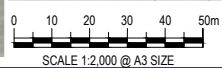
DEB S3-3 WITH MAX. CONTRIBUTING AREA 3,000 m² AND RAINFALL ACTIVATED FLOC SHED

DEB S3-4 WITH MAX. CONTRIBUTING AREA 2,100 m² AND RAINFALL ACTIVATED FLOC SHED

PILING WITHIN CMA TO BE ENCASED TO MITIGATE SEDIMENT DISCHARGE



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



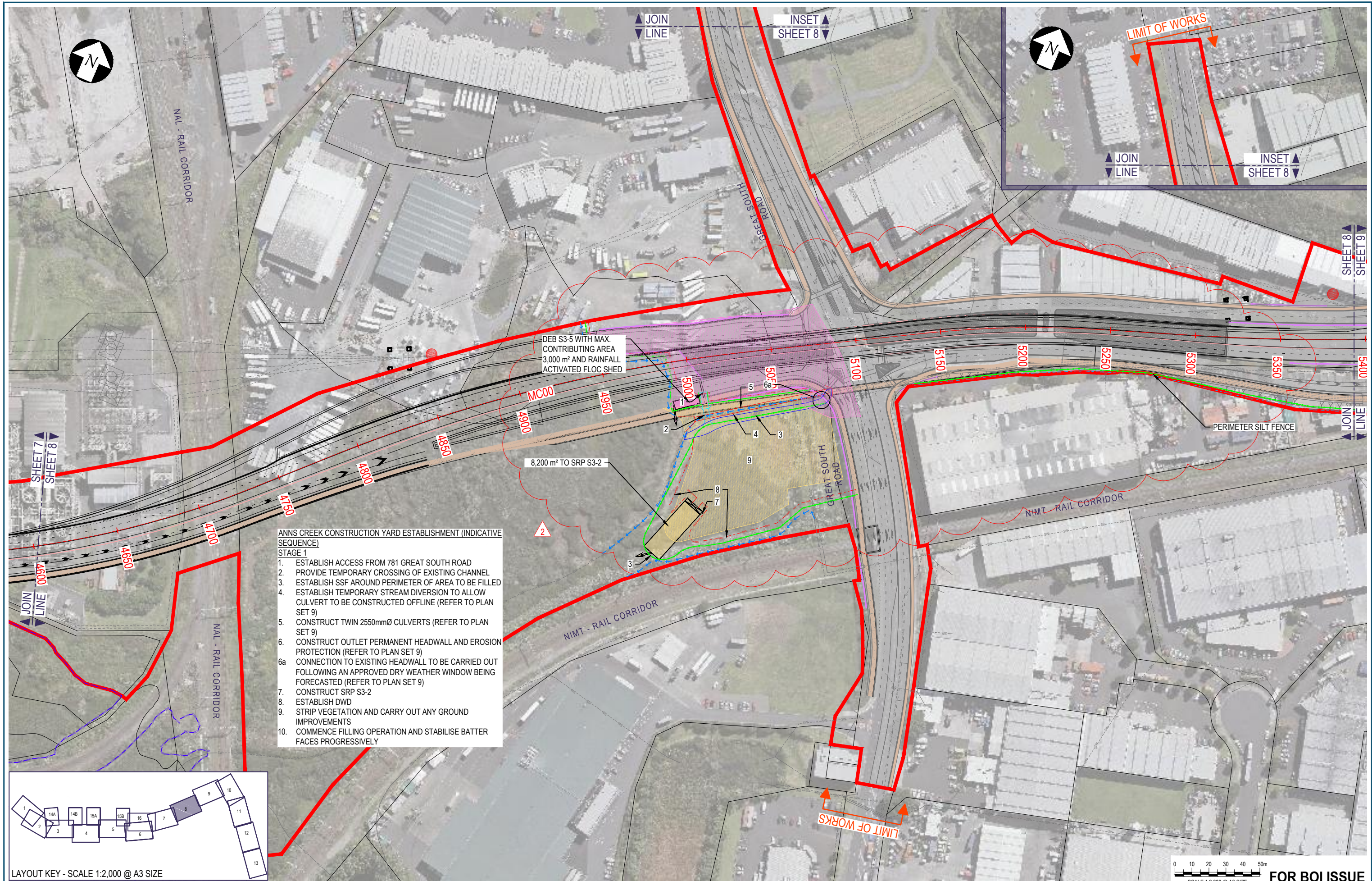
FOR BOI ISSUE

3	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
2	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

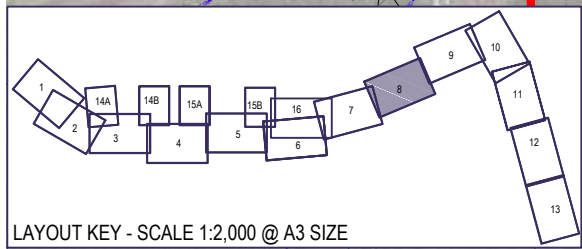
DISCLAIMER
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL		
	ANNS CREEK		
	SHEET 07		
Drawing Number	AEE-ES-107		
Rev No.	3		



- ANNS CREEK CONSTRUCTION YARD ESTABLISHMENT (INDICATIVE SEQUENCE)**
STAGE 1
1. ESTABLISH ACCESS FROM 781 GREAT SOUTH ROAD
 2. PROVIDE TEMPORARY CROSSING OF EXISTING CHANNEL
 3. ESTABLISH SSF AROUND PERIMETER OF AREA TO BE FILLED
 4. ESTABLISH TEMPORARY STREAM DIVERSION TO ALLOW CULVERT TO BE CONSTRUCTED OFFLINE (REFER TO PLAN SET 9)
 5. CONSTRUCT TWIN 2550mmØ CULVERTS (REFER TO PLAN SET 9)
 6. CONSTRUCT OUTLET PERMANENT HEADWALL AND EROSION PROTECTION (REFER TO PLAN SET 9)
 - 6a. CONNECTION TO EXISTING HEADWALL TO BE CARRIED OUT FOLLOWING AN APPROVED DRY WEATHER WINDOW BEING FORECASTED (REFER TO PLAN SET 9)
 7. CONSTRUCT SRP S3-2
 8. ESTABLISH DWD
 9. STRIP VEGETATION AND CARRY OUT ANY GROUND IMPROVEMENTS
 10. COMMENCE FILLING OPERATION AND STABILISE BATTER FACES PROGRESSIVELY



0 10 20 30 40 50m
 SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

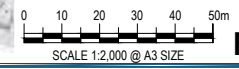
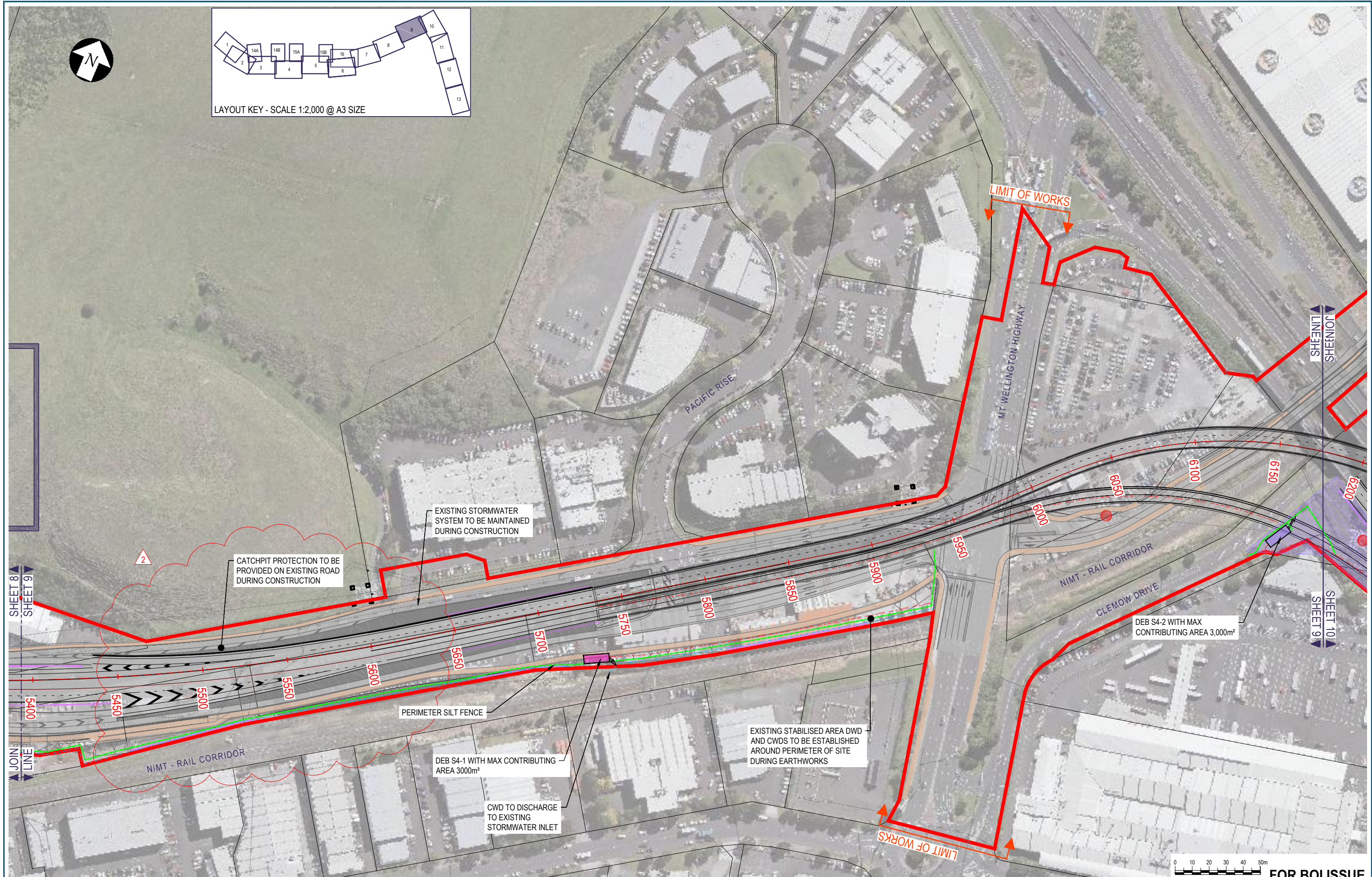
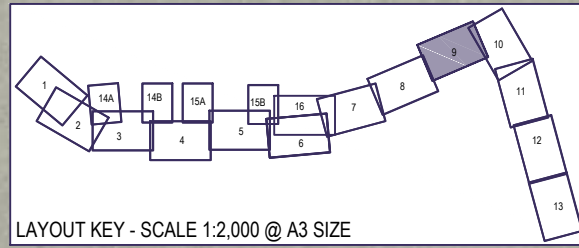
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2	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL ANNS CREEK/ SYLVIA PARK ROAD SHEET 08	
Drawing Number	AEE-ES-108	Rev No. 3



FOR BOI ISSUE

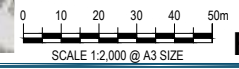
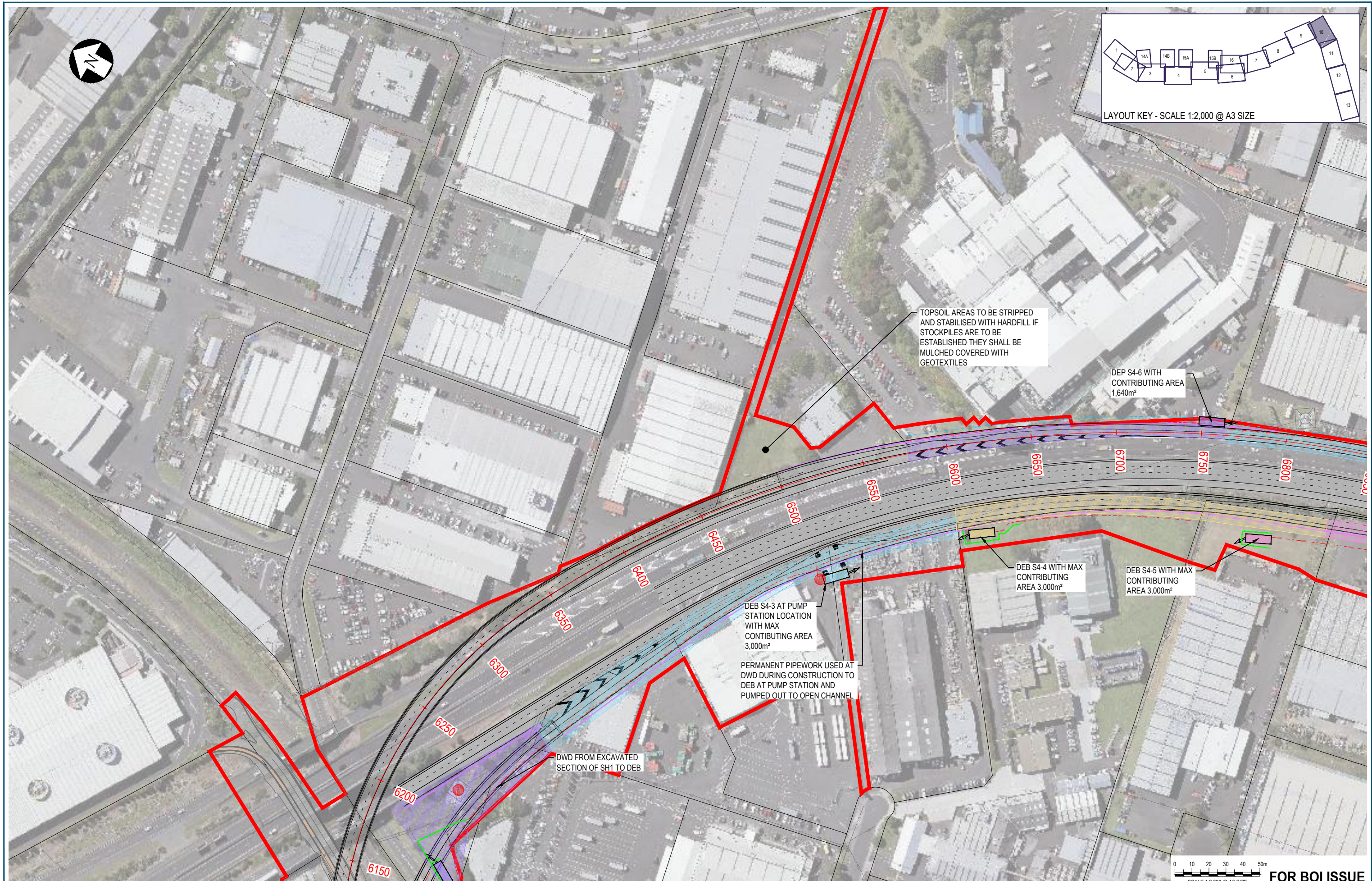
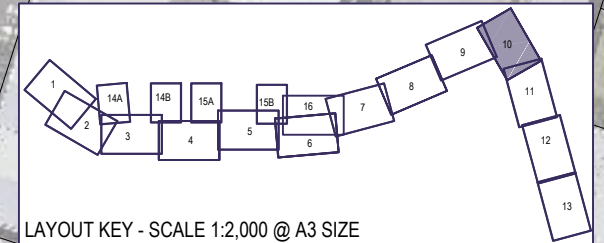
3	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
2	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Designed	T CAIN	Design Check	J MURAHIDY		27.06.17		27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL ANNS CREEK/ SYLVIA PARK ROAD SHEET 09		
Drawing Number	AEE-ES-109	Rev No.	3



FOR BOI ISSUE

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

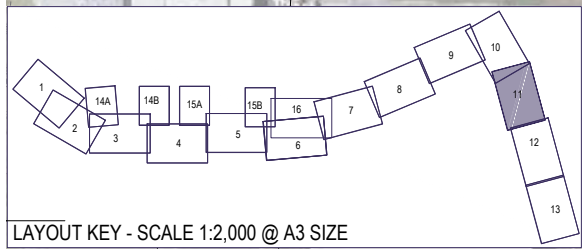
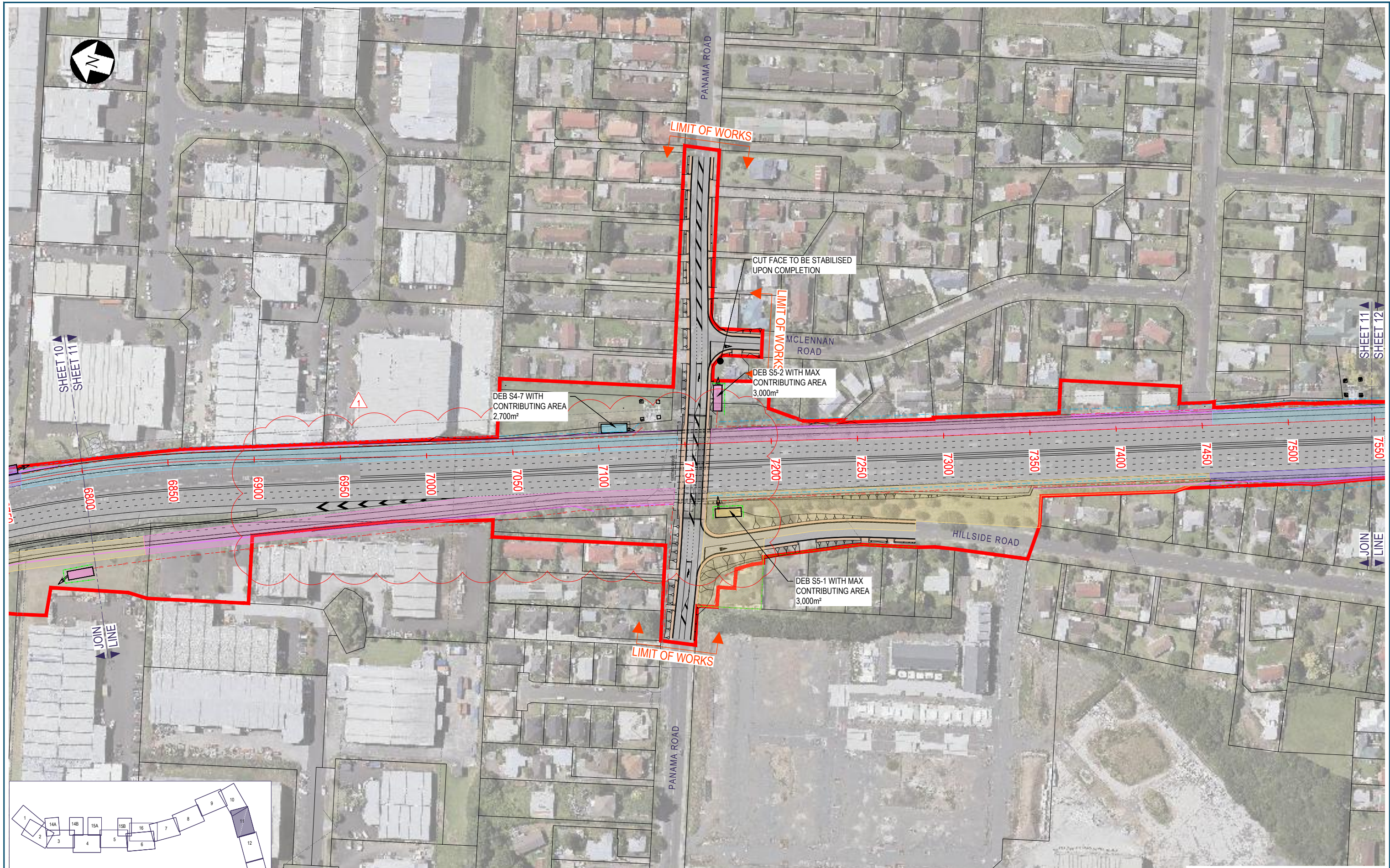
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NZ TRANSPORT AGENCY
 WAIKA MOTAH

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ SYLVIA PARK RAMPS SHEET 10		
Drawing Number	AEE-ES-110	Rev No.	2



SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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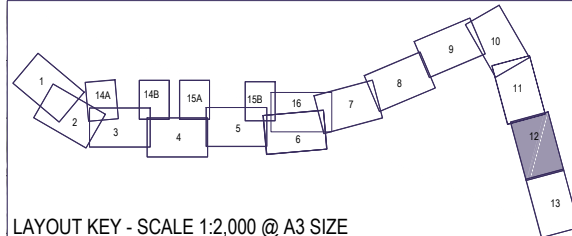
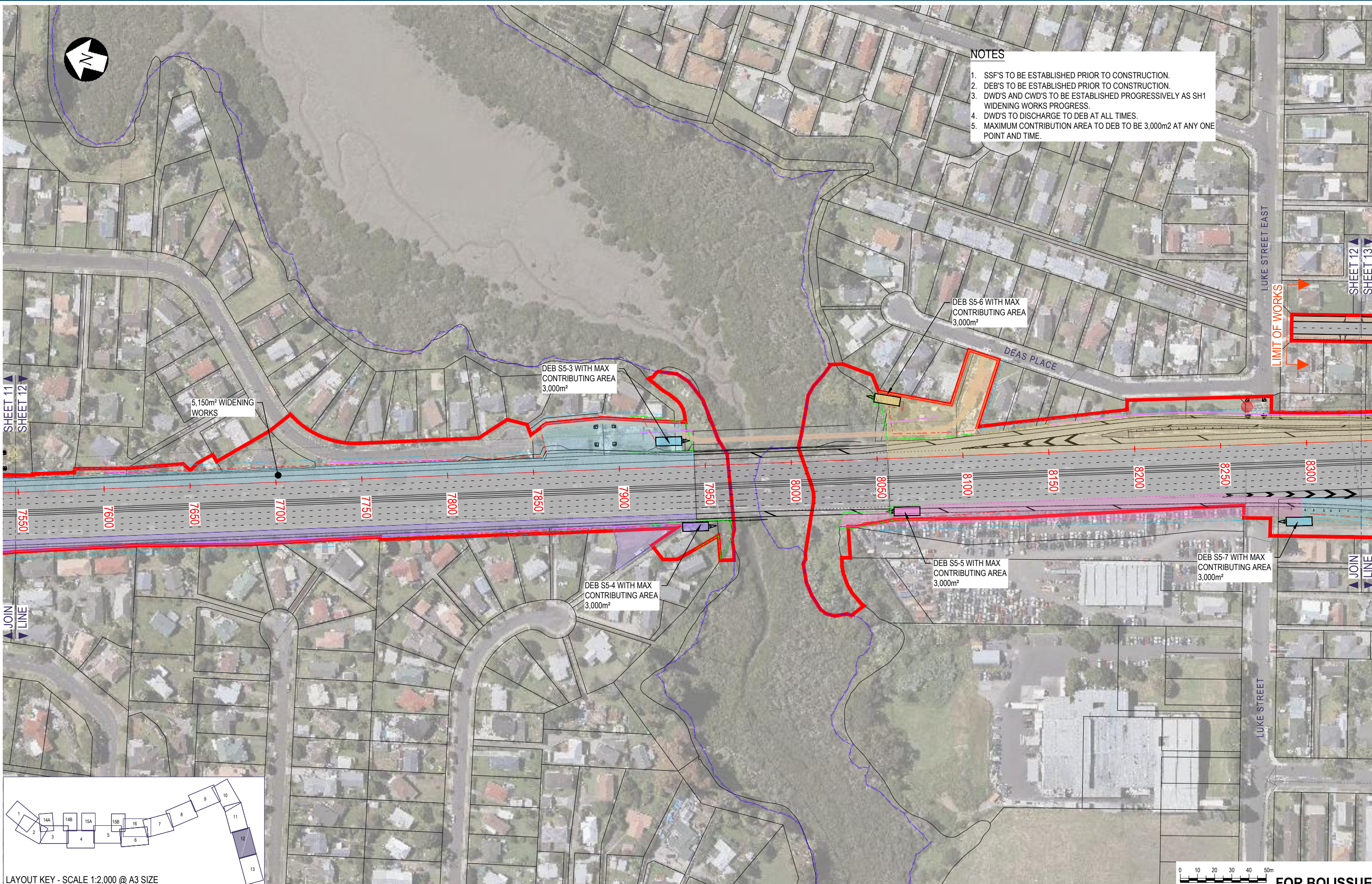


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ PANAMA ROAD SHEET 11		
Drawing Number	AEE-ES-111	Rev No.	2



- NOTES**
1. SSF'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
 2. DEB'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
 3. DWD'S AND CWD'S TO BE ESTABLISHED PROGRESSIVELY AS SH1 WIDENING WORKS PROGRESS.
 4. DWD'S TO DISCHARGE TO DEB AT ALL TIMES.
 5. MAXIMUM CONTRIBUTION AREA TO DEB TO BE 3,000m² AT ANY ONE POINT AND TIME.



2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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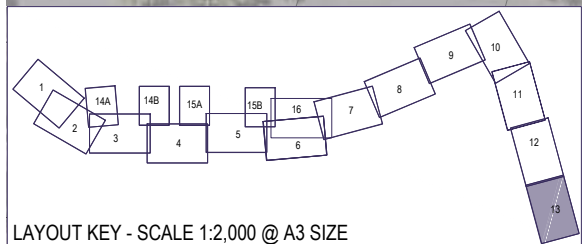
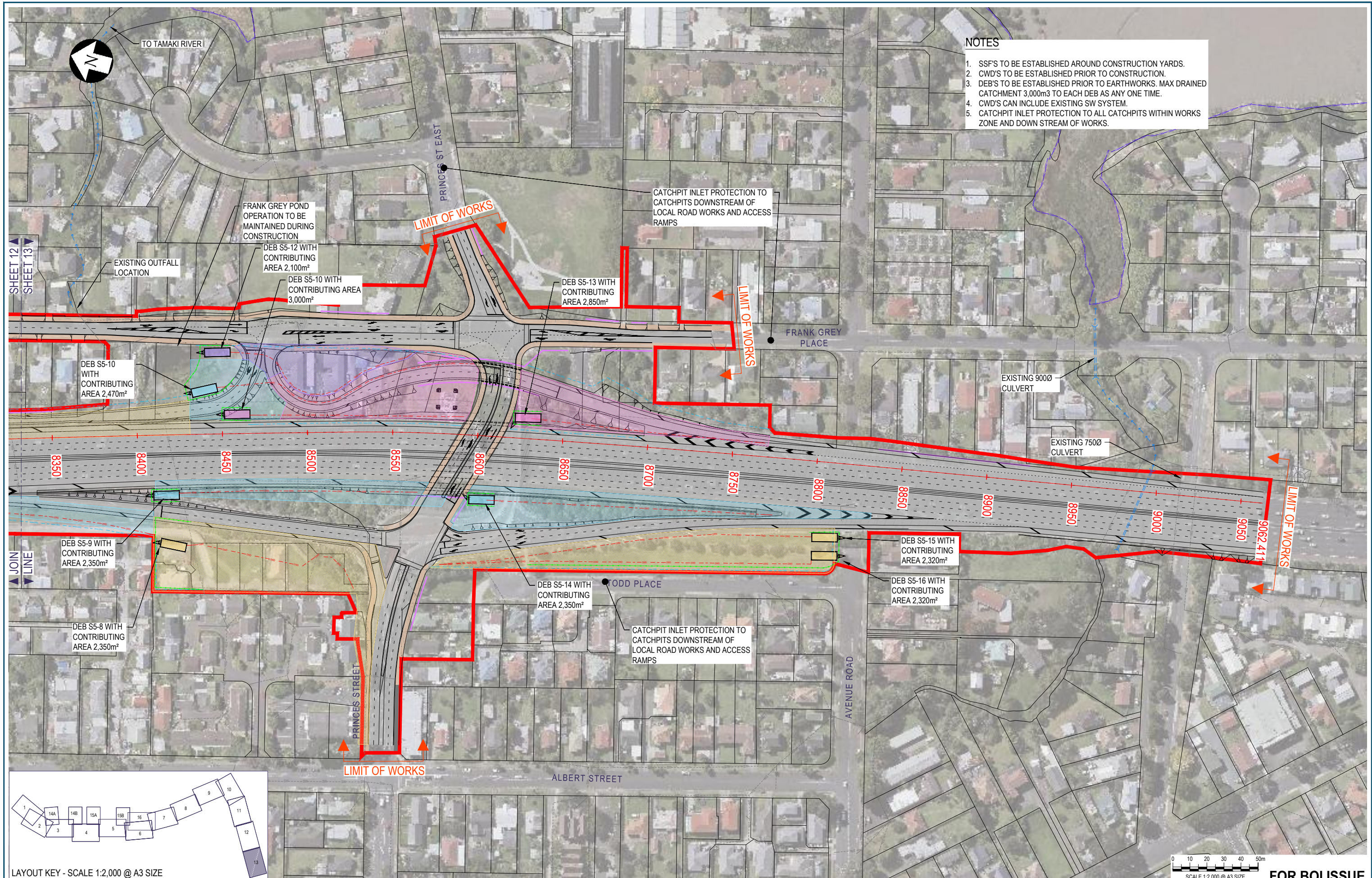


Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL SH1/ OTAHUHU CREEK SHEET 12		
Drawing Number	AEE-ES-112	Rev No.	2

NOTES

1. SSF'S TO BE ESTABLISHED AROUND CONSTRUCTION YARDS.
2. CWD'S TO BE ESTABLISHED PRIOR TO CONSTRUCTION.
3. DEB'S TO BE ESTABLISHED PRIOR TO EARTHWORKS. MAX DRAINED CATCHMENT 3,000m³ TO EACH DEB AS ANY ONE TIME.
4. CWD'S CAN INCLUDE EXISTING SW SYSTEM.
5. CATCHPIT INLET PROTECTION TO ALL CATCHPITS WITHIN WORKS ZONE AND DOWN STREAM OF WORKS.



2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

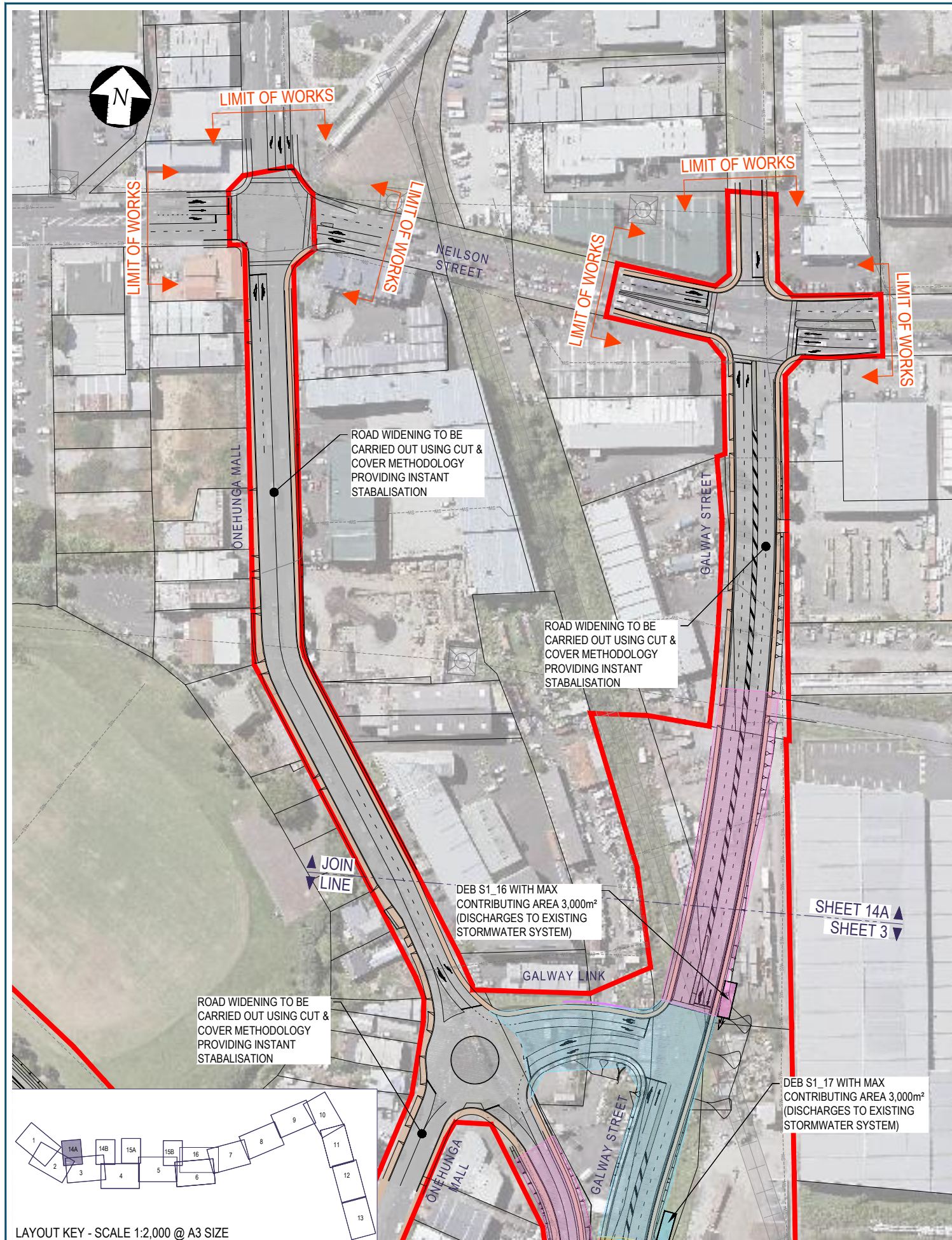
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NZ TRANSPORT AGENCY
 WAIKA MOTAH

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	EROSION SEDIMENT CONTROL PRINCES ST INTERCHAGNE SHEET 13		
Drawing Number	AEE-ES-113	Rev No.	2



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

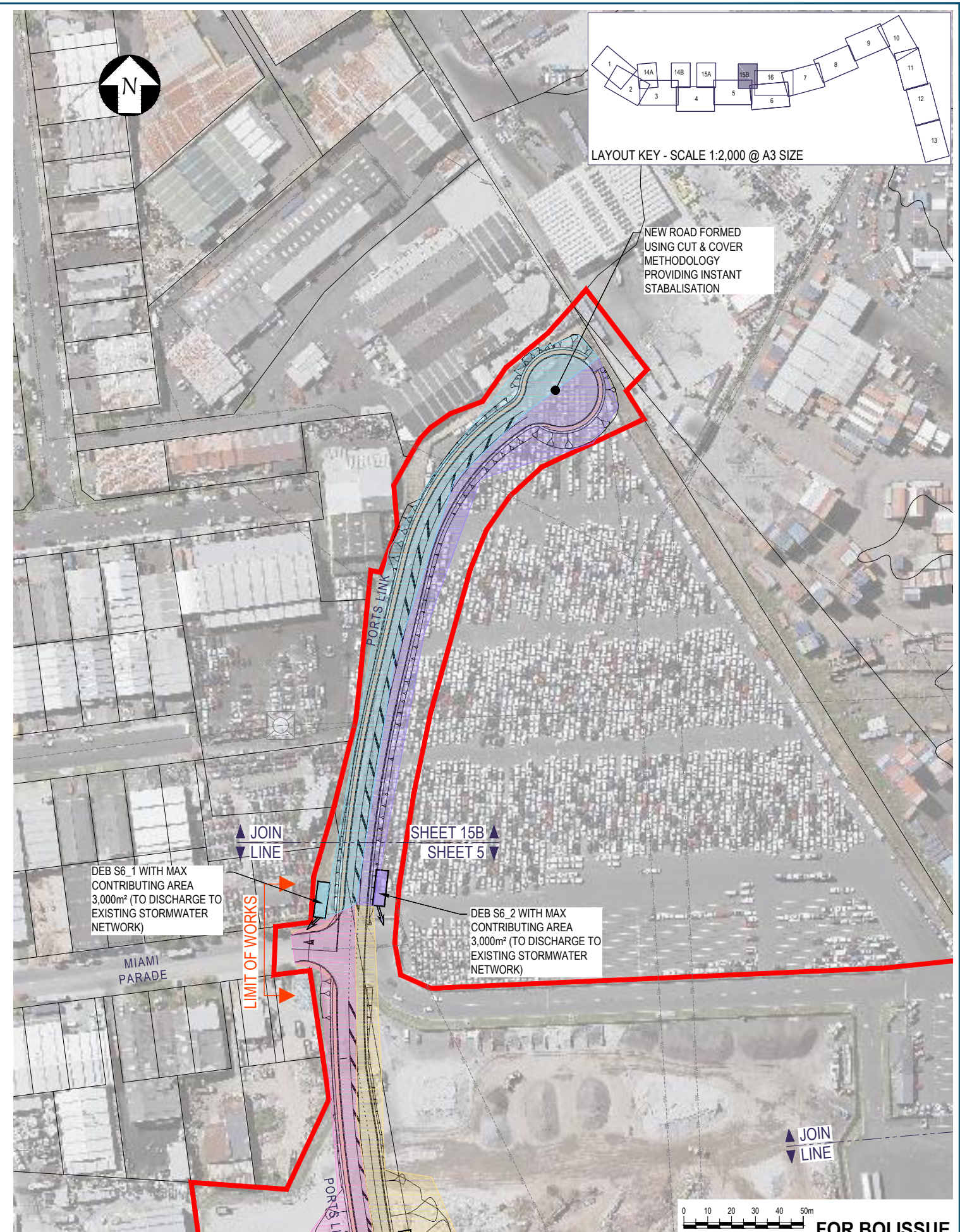
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1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY				
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL NEILSON STREET INTERCHANGE - LOCAL ROADS SHEET 14A & 14B		
Drawing Number	AEE-ES-114		
Rev No.	2		



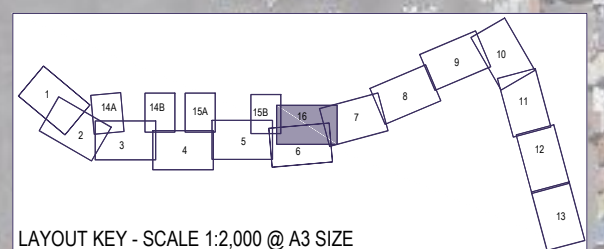
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	26.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

DISCLAIMER
 This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing **must not** be used for construction

NZ TRANSPORT AGENCY
 WAIKATO
East West Link

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCKEIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL CAPTAIN SPRINGS ROAD/ PORTS LINK SHEET 15A & 15B	Drawing Number AEE-ES-115	Rev No. 2
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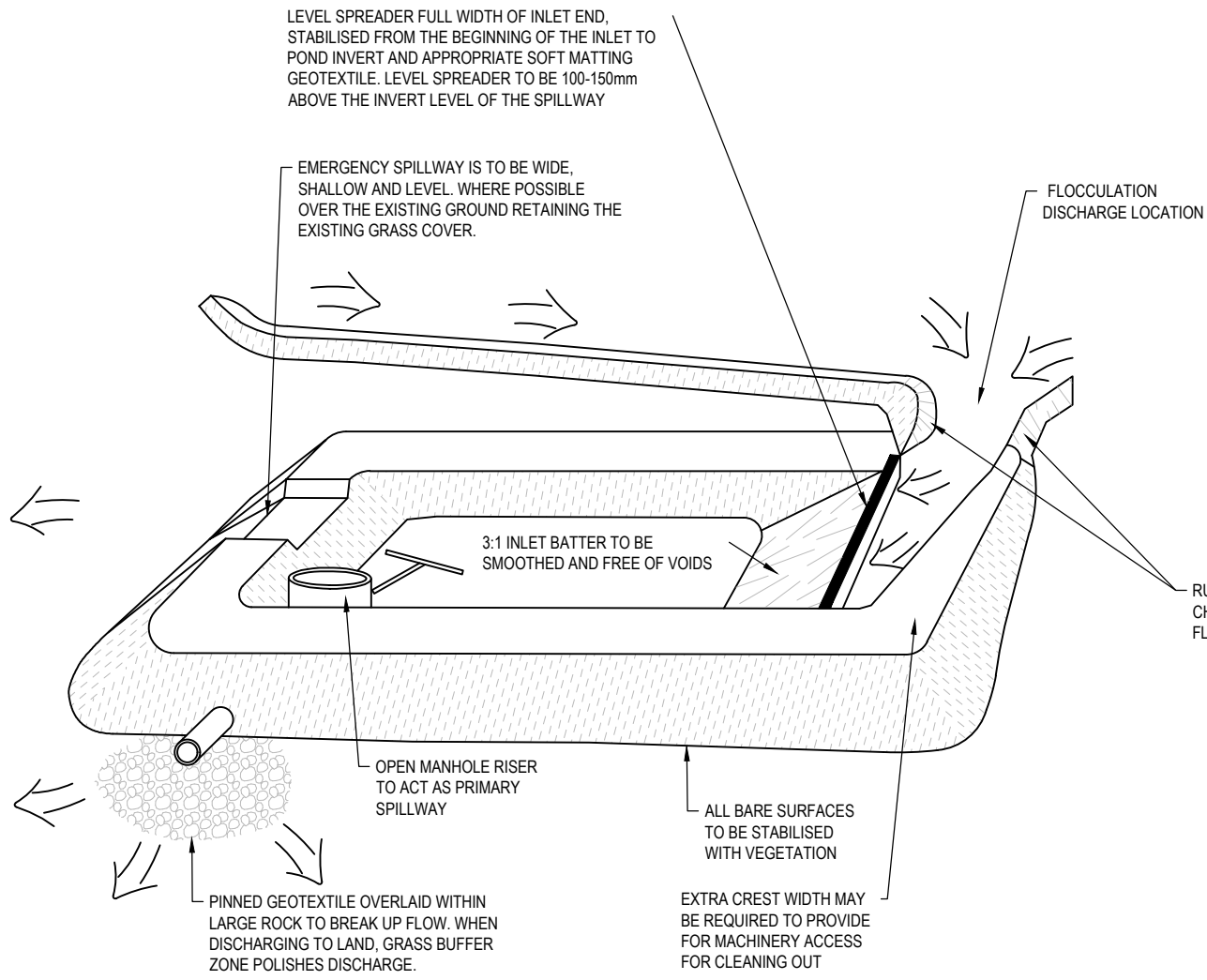
0 10 20 30 40 50m
SCALE 1:2,000 @ A3 SIZE **FOR BOI ISSUE**

2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

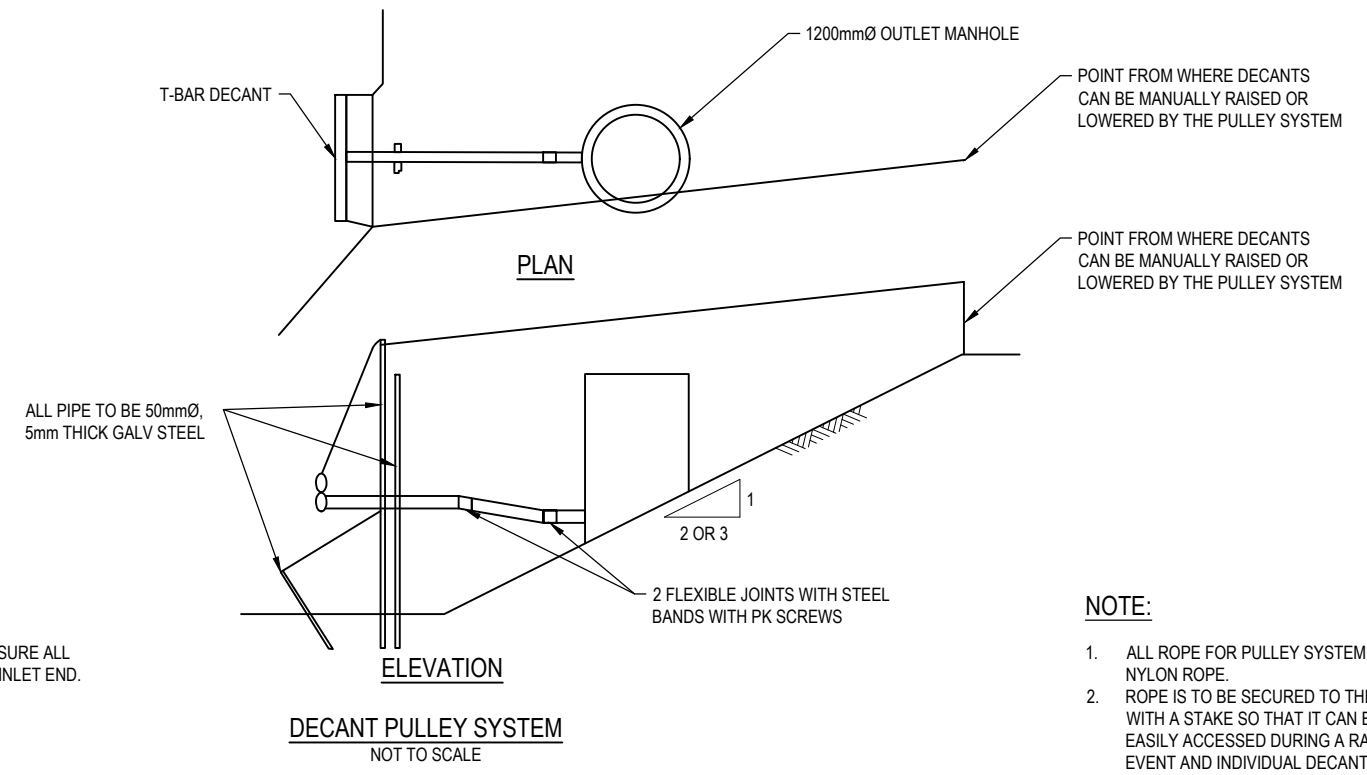
DISCLAIMER
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	27.06.17	Alliance Manager	27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

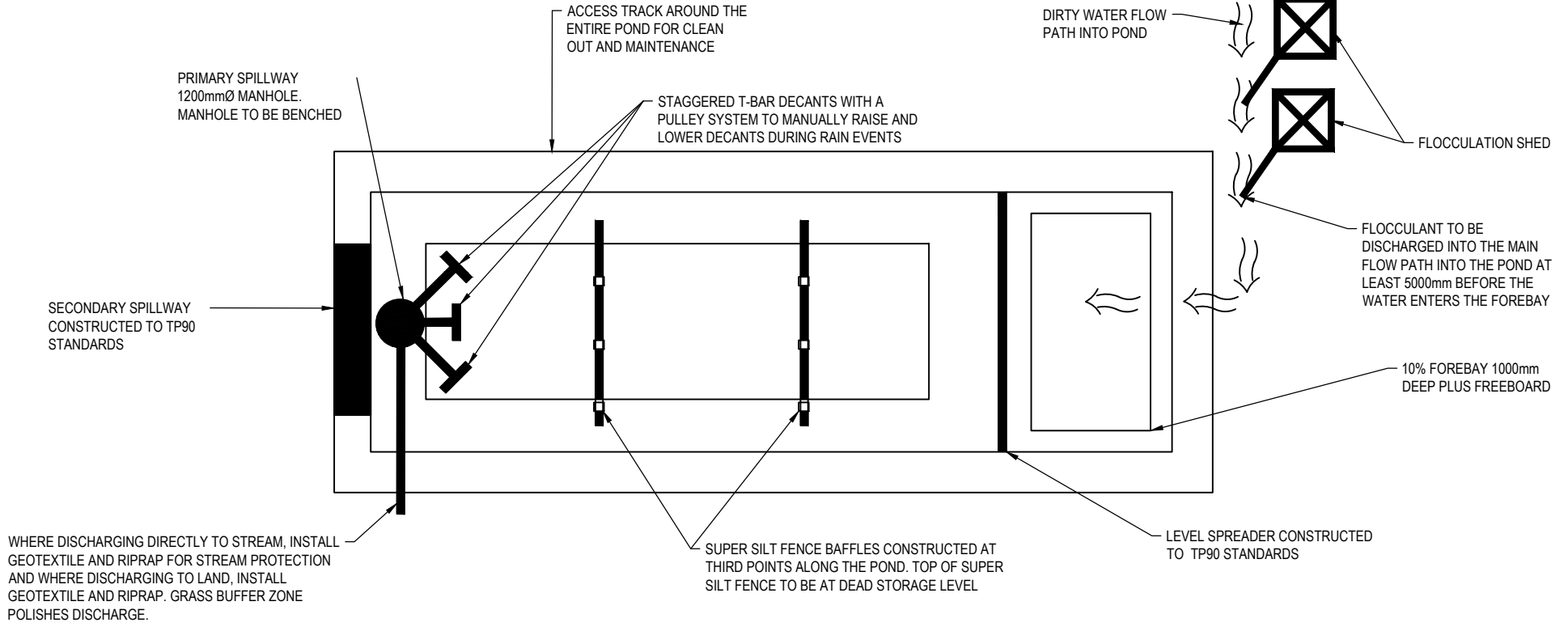
Drawing Title	EROSION SEDIMENT CONTROL EMBANKMENT SHEET 16		
Drawing Number	AEE-ES-116	Rev No.	2



TYPICAL SEDIMENT RETENTION POND
NOT TO SCALE



- NOTE:**
1. ALL ROPE FOR PULLEY SYSTEM TO BE NYLON ROPE.
 2. ROPE IS TO BE SECURED TO THE BANK WITH A STAKE SO THAT IT CAN BE EASILY ACCESSED DURING A RAIN EVENT AND INDIVIDUAL DECANTS CAN BE MANUALLY RAISED OR LOWERED.



SEDIMENT RETENTION POND TYPICAL DETAILS
NOT TO SCALE

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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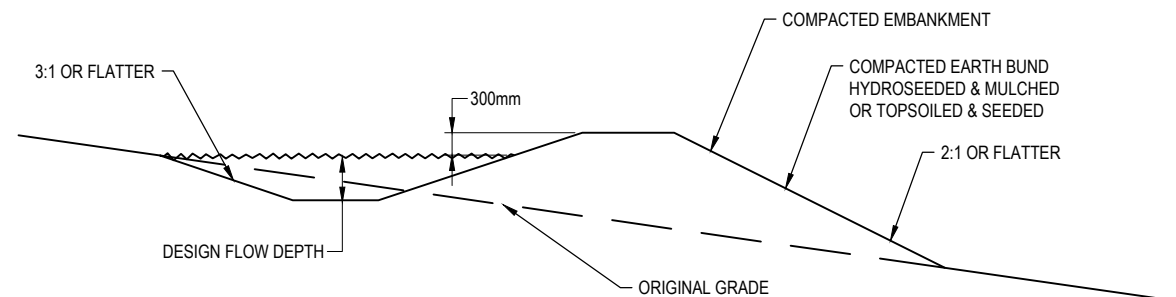
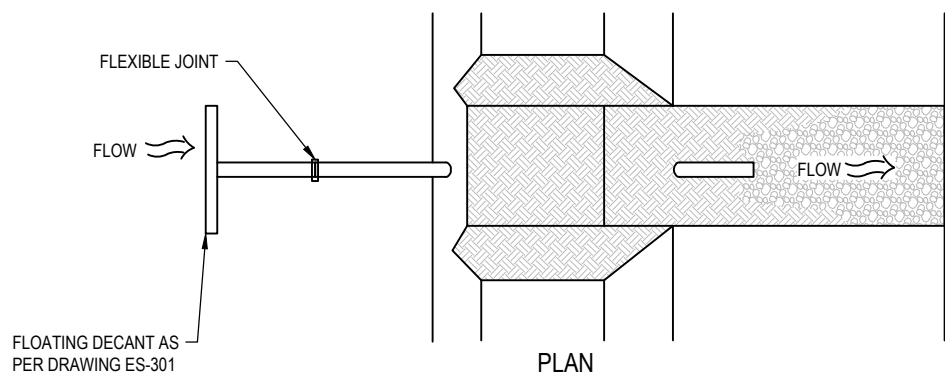
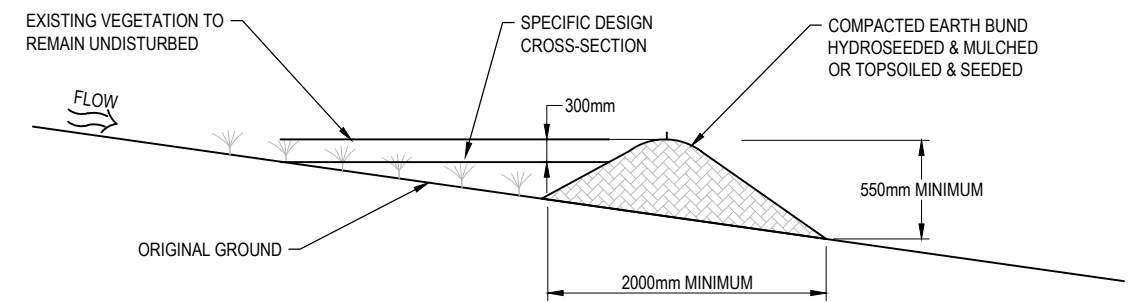
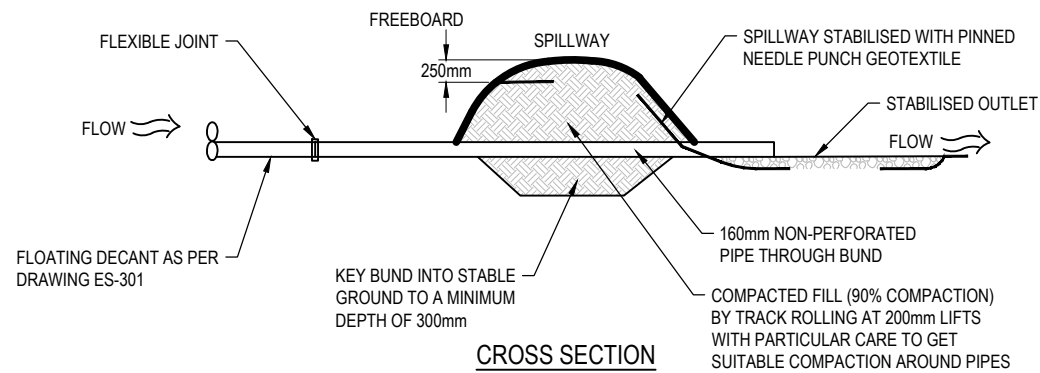
NZ TRANSPORT AGENCY
WAIKA MOTAH

East West Link

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 01 OF 05		
Drawing Number	AEE-ES-301	Rev No.	2

FOR BOI ISSUE



DECANTING EARTH BUND
NOT TO SCALE

NOTE:
1. CHEMICAL TREATMENT (FLOCCULATION) TO BE PROVIDED FOR ALL DECANTING EARTH BUNDS

No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

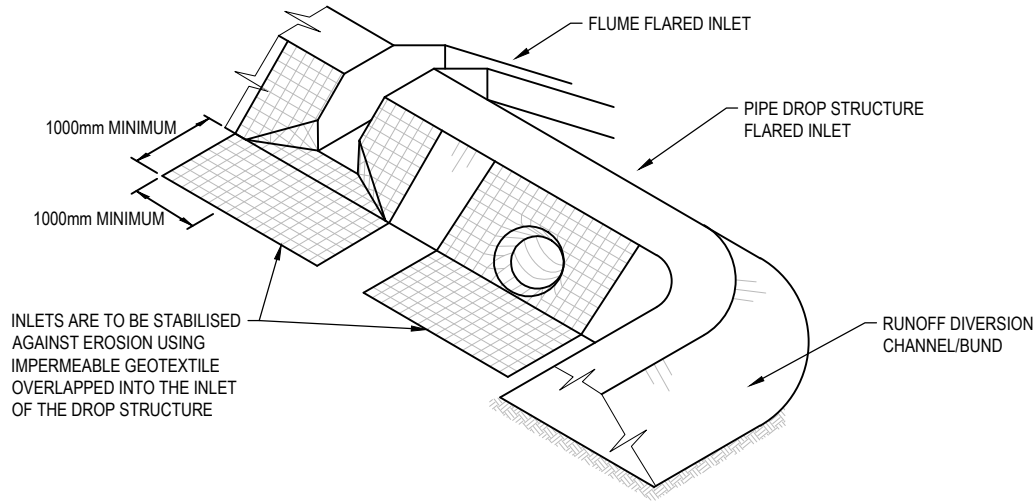
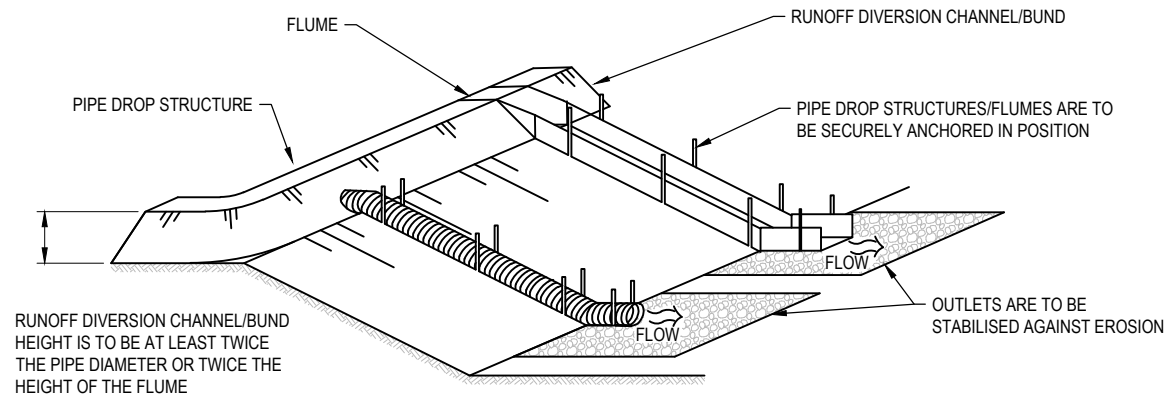
DISCLAIMER
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 02 OF 05	Drawing Number AEE-ES-302	Rev No. 2
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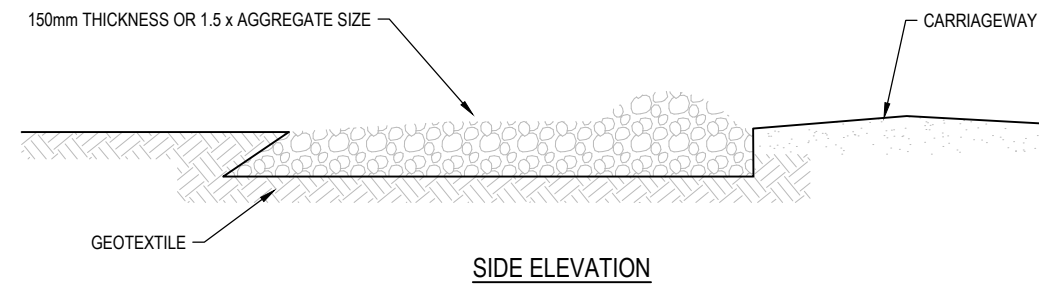
FOR BOI ISSUE



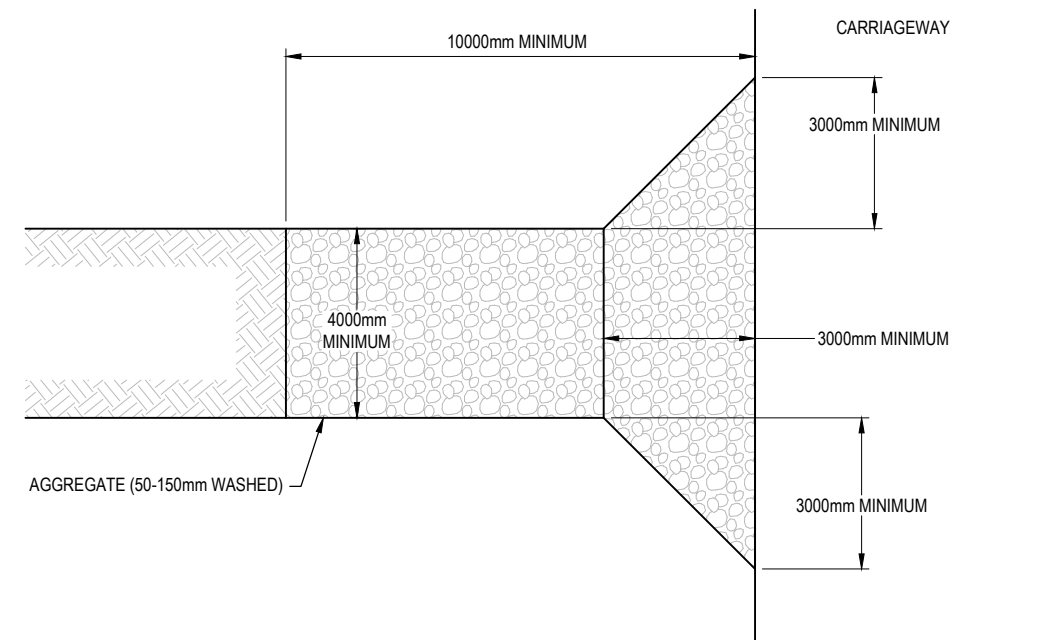
TP90 DESIGN CRITERIA FOR PIPE DROP STRUCTURE	
PIPE DIAMETER (mm)	MAXIMUM CATCHMENT AREA (ha)
150	0.05
300	0.20
450	0.60
500	1.00
600	1.00

SPECIFIC DESIGNS ARE REQUIRED FOR FLUME SIZING

PIPE DROP / FLUME STRUCTURE
NOT TO SCALE



SIDE ELEVATION



PLAN VIEW

STABILISED CONSTRUCTION ENTRANCE
NOT TO SCALE

FOR BOI ISSUE

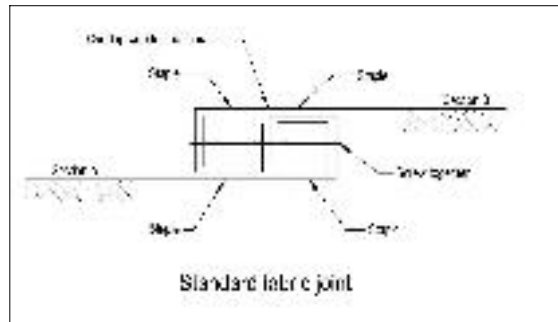
No.	Issued Status	Drawn	Check'd	App'd	Date
2	BOARD OF INQUIRY	TD	NN	JC	27.06.2017
1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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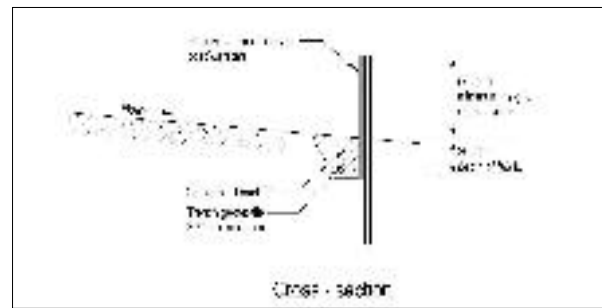
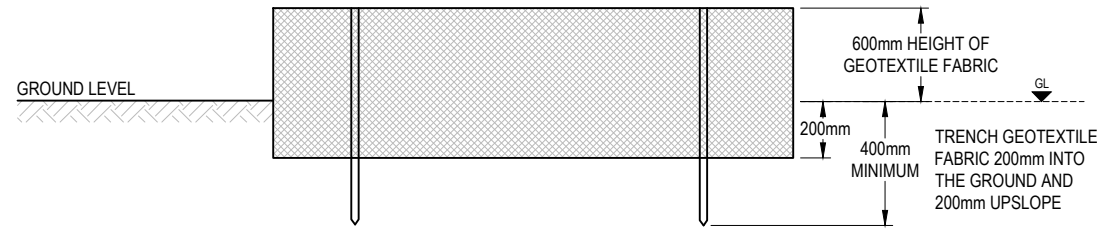


Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager J CALDWELL
Designed T CAIN	Design Check J MURAHIDY	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

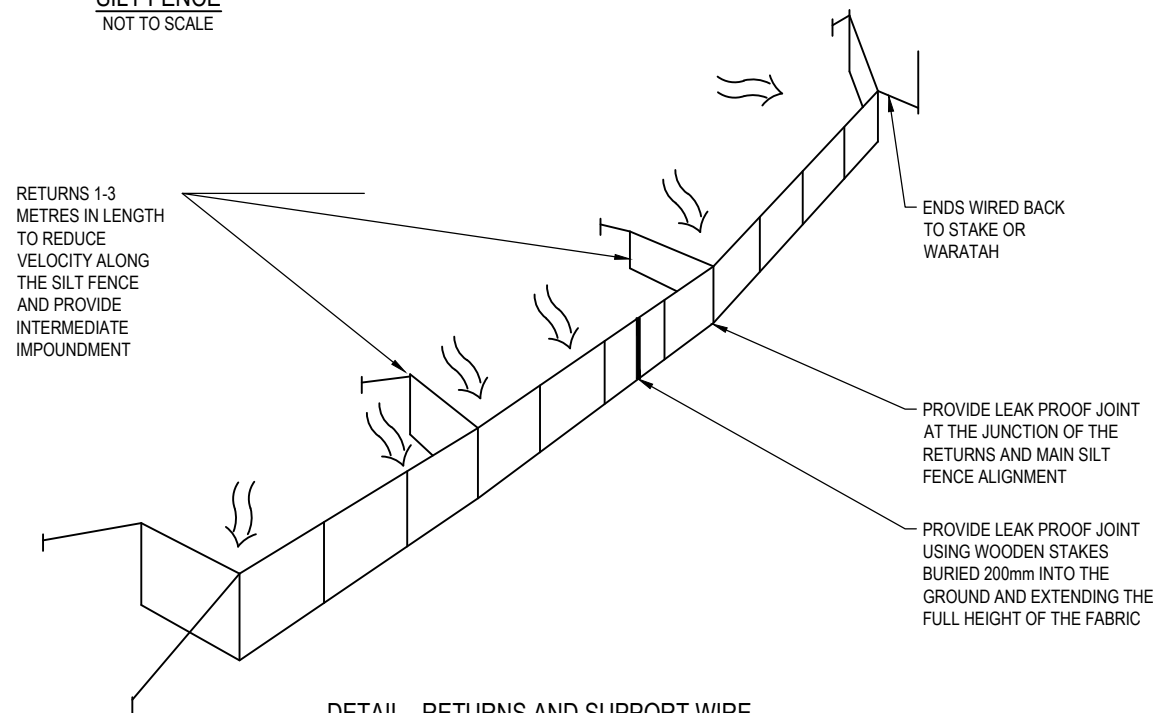
Drawing Title EROSION SEDIMENT CONTROL TYPICAL DETAIL SHEET 03 OF 05	Rev No. 2
Drawing Number AEE-ES-303	



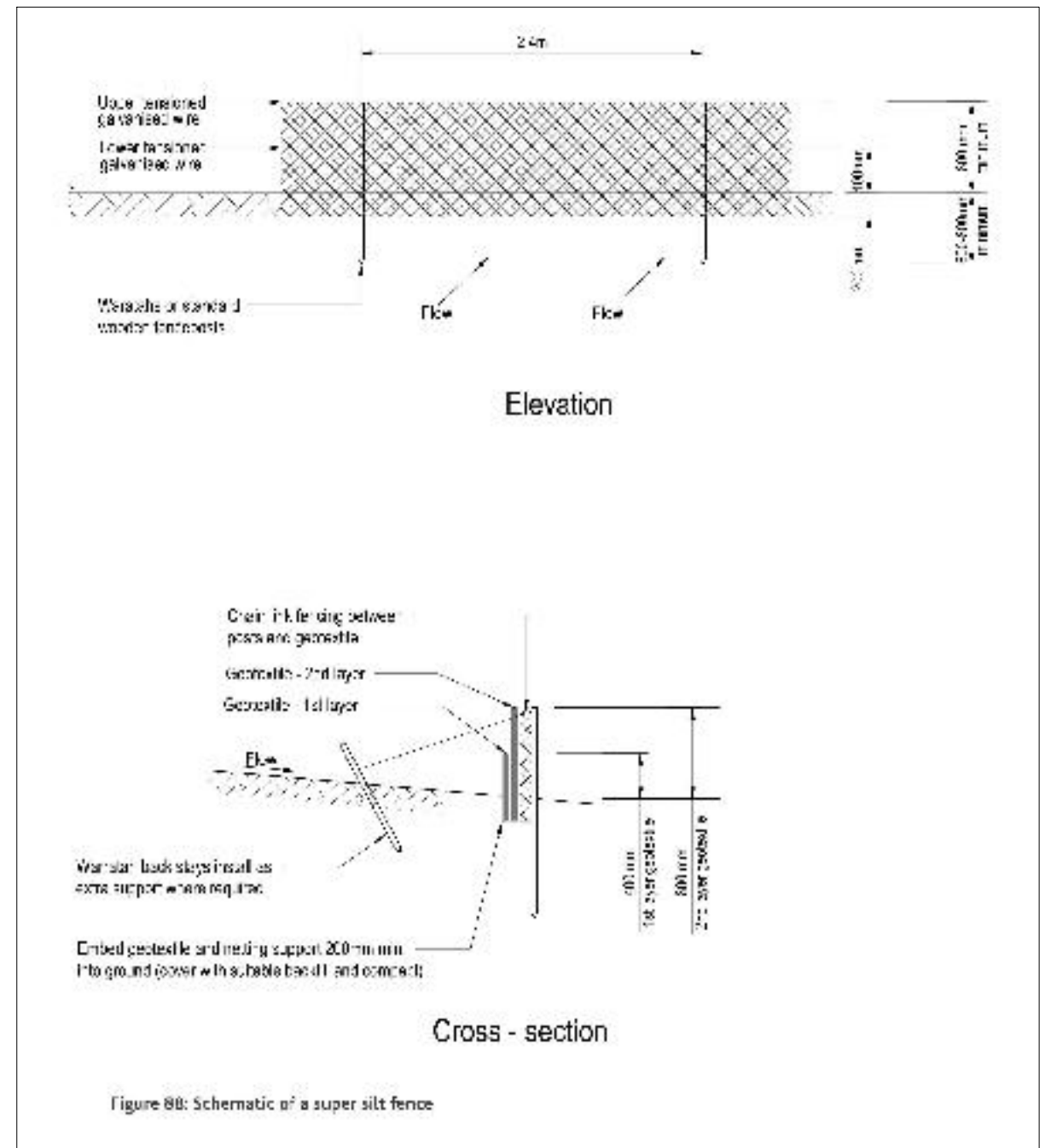
POST SPACING CAN BE INCREASED FROM 2000mm TO 4000mm IF SUPPORTED BY A 2.5mm DIAMETER HIGH TENSILE WIRE ALONG THE TOP WITH CLIPS EVERY 200mm



SILT FENCE NOT TO SCALE



DETAIL - RETURNS AND SUPPORT WIRE FOR SILT FENCE & SUPER SILT FENCE NOT TO SCALE



SUPER SILT FENCE NOT TO SCALE

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0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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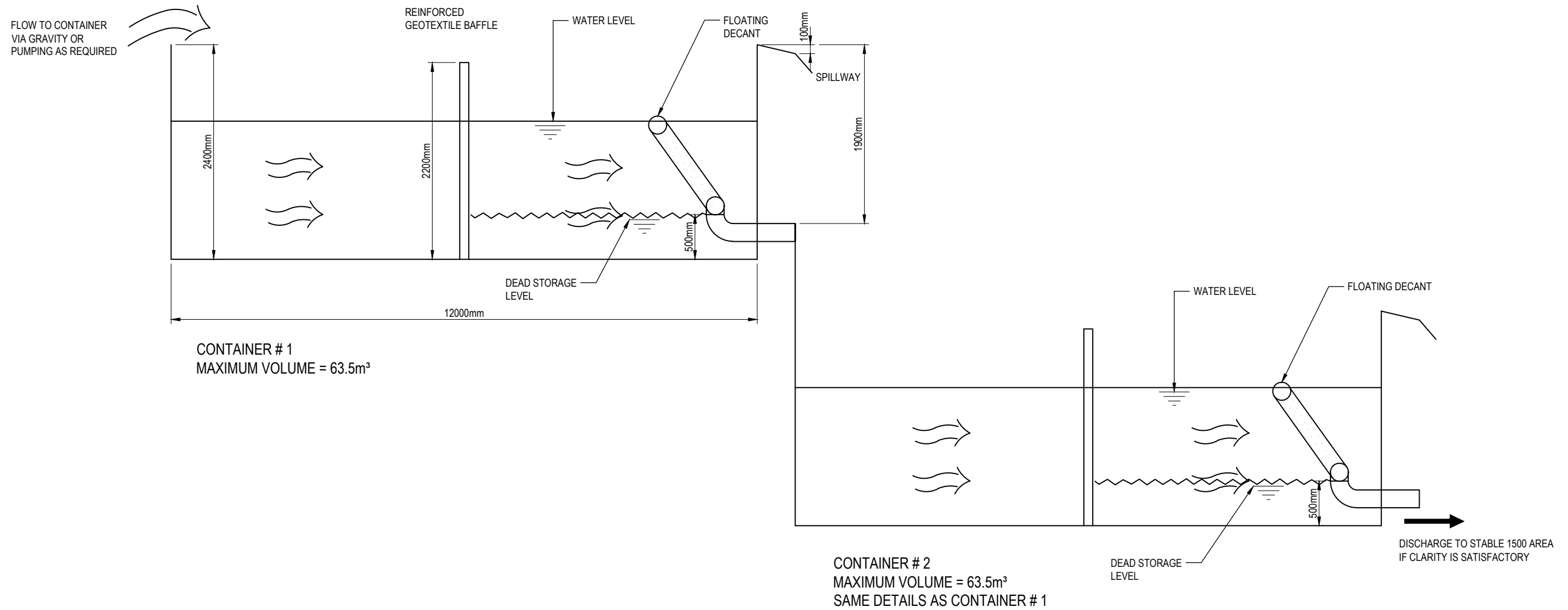
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	J CALDWELL
Designed	T CAIN	Design Check	J MURAHIDY	Design Manager	N NANCEKIVELL	Alliance Manager	J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL		
	TYPICAL DETAIL		
	SHEET 04 OF 05		
Drawing Number	AEE-ES-304		Rev No.
			2

FOR BOI ISSUE

NOTES

1. DRAWINGS NOT TO SCALE. SCHEMATIC ONLY.
2. BAFFLE DESIGNED FROM REINFORCED GEOTEXTILE TO ALLOW FLOWS TO PASS.
3. STRUCTURAL INTEGRITY OF CONTAINERS WOULD REMAIN.
4. CONTAINER # 1 WILL BE POSITIONED 1900mm HIGHER THAN CONTAINER # 2. IF CONTOURS DO NOT ALLOW THIS THEN CONTAINER # 1 WILL BE ARTIFICIALLY RAISED BY 1900mm.
5. WATER CLARITY CAN BE CHECKED IN CONTAINER # 2 AND FLOCCULANT ADDED MANUALLY IF NECESSARY TO ACHIEVE WATER CLARITY.



CONTAINER IMPOUNDMENT SYSTEM
NOT TO SCALE

FOR BOI ISSUE

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1	ISSUED FOR CONFERENCING	TD	NN*	JC*	23.05.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	T CAIN	Design Check	J MURAHIDY		N NANCEKIVELL		J CALDWELL
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	EROSION SEDIMENT CONTROL	
	TYPICAL DETAIL	
	SHEET 05 OF 05	
Drawing Number	AEE-ES-305	Rev No.
		2