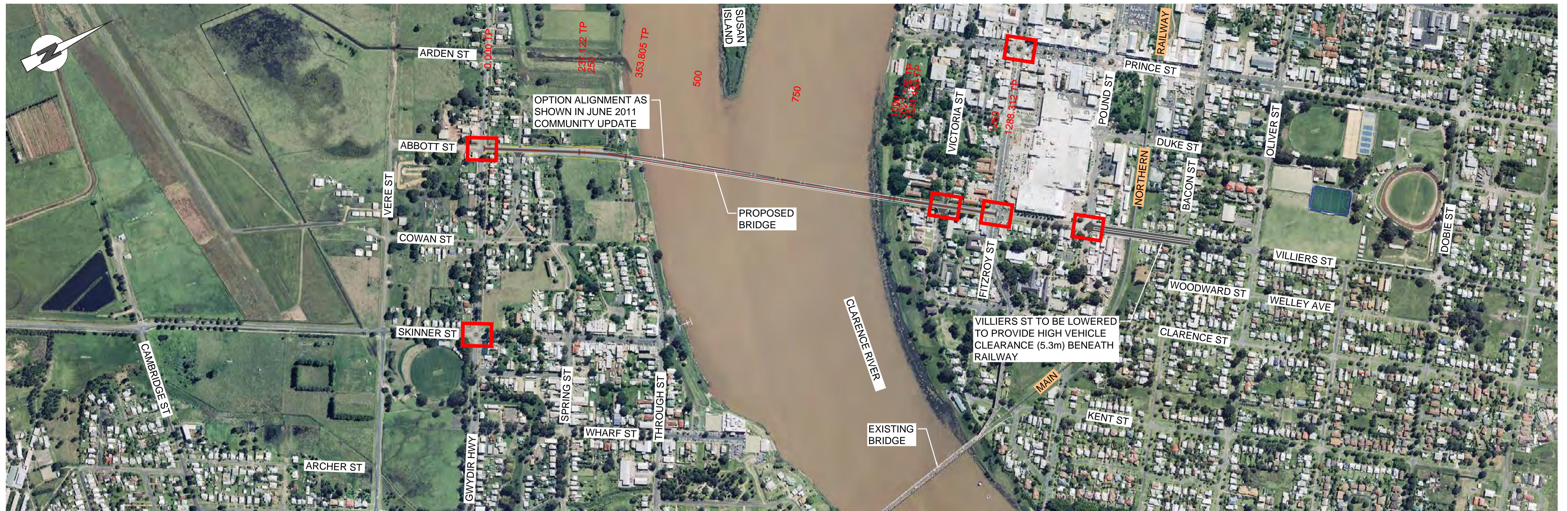


Appendix 4 – Preliminary route options drawings

This appendix presents basic plan and longitudinal section drawings for each of the 25 preliminary route options. The design criteria used for the development of these drawings is presented in Appendix 2.



LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- OPTION ALIGNMENT AS SHOWN IN JUNE 2011 COMMUNITY UPDATE

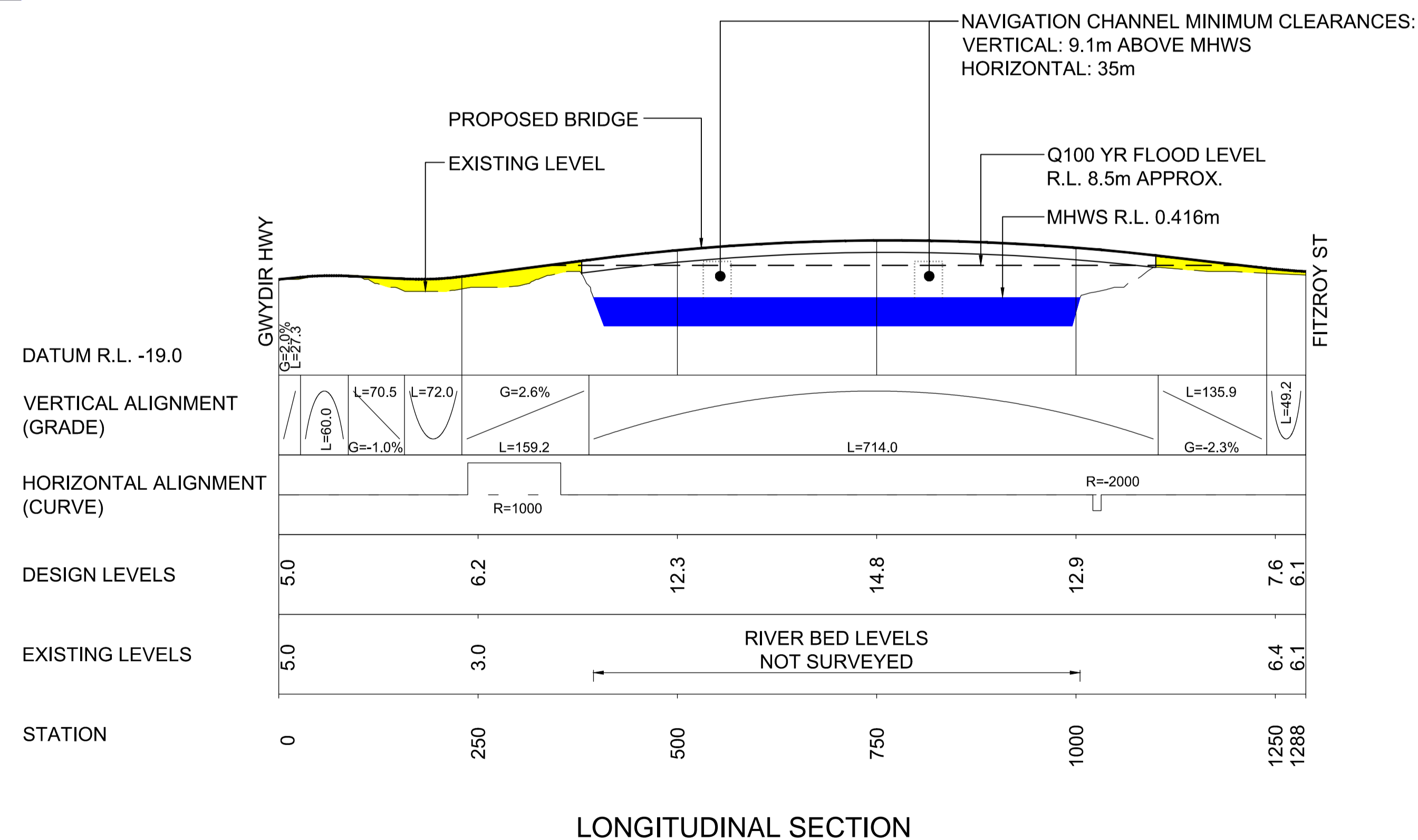
LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
2. IN ADDITION TO THE INTERSECTION UPGRADES SHOWN ON THE PLAN, THE OPTION WOULD INCLUDE AN UPGRADE OF THE FOLLOWING INTERSECTIONS :
 - GWYDIR HWY / BENT ST
3. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
 - WHERE THE ESTIMATED NUMBER OF VEHICLES APPROACHING THE INTERSECTIONS IS RELATIVELY HIGH IN 2019 AND WOULD REQUIRE INTERSECTION IMPROVEMENTS.
 - THOSE THAT WILL REQUIRE AN UPGRADE TO ACCOMMODATE TURNING VEHICLES

PLAN



E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
0 20 40 60 80 100	VERTICAL SCALE 1:1000m
0 100 200 300 400 500	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

ARUP
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ABN 18 000 966 165

DESIGNED:

REVIEWED:

ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 1 - PRELIMINARY ROUTE OPTION F
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE
-	220422_SK6001.dwg	06/12/2011
REGISTRATION NUMBER		
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LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- OPTION ALIGNMENT AS SHOWN IN JUNE 2011 COMMUNITY UPDATE
- ROAD CLOSURE

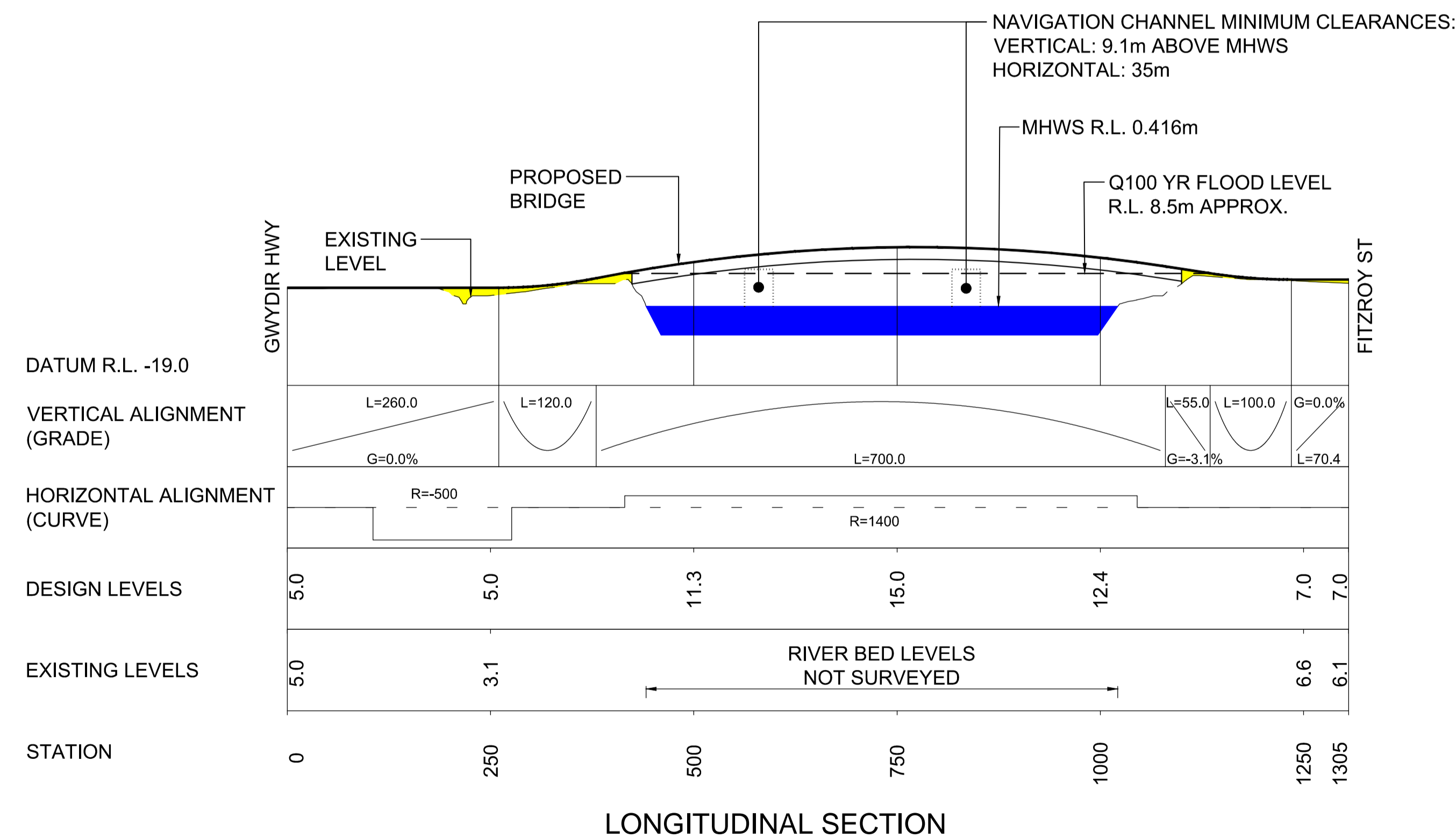
NOTES

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LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

PLAN



E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES
 HORIZONTAL SCALE 1:5000m
 VERTICAL SCALE 1:1000m
Co-ordinate System: MGA Zone 56
Height Datum: A.H.D.

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DESIGNED:

REVIEWED:

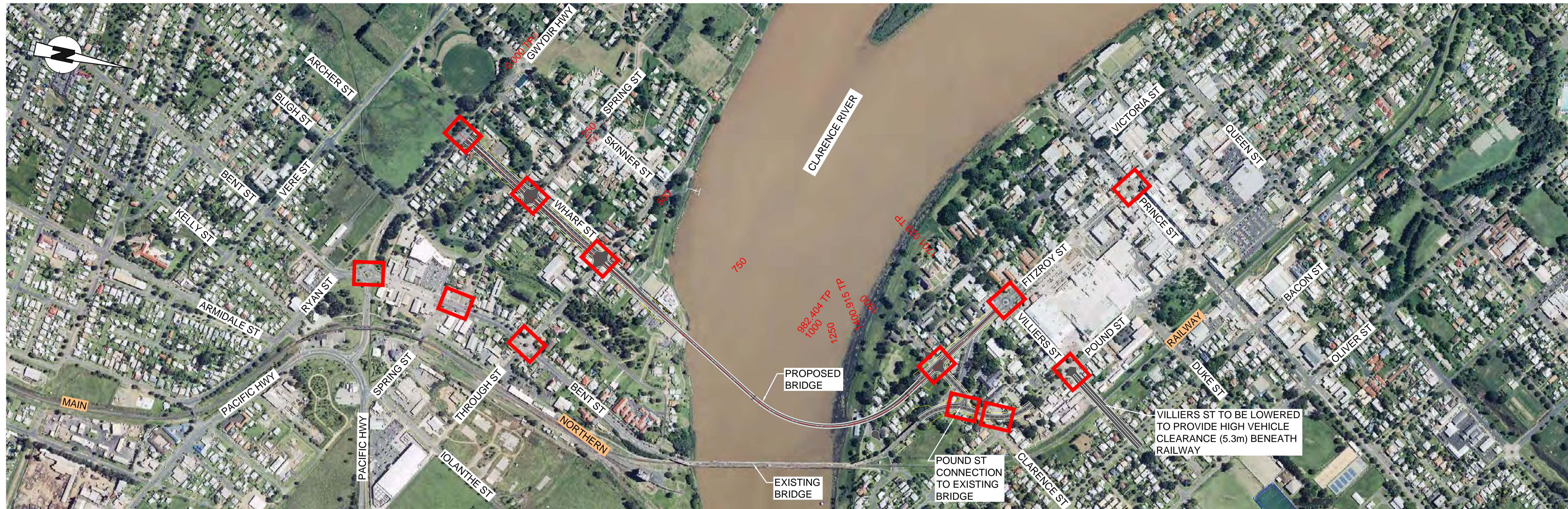
ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 1 - PRELIMINARY ROUTE OPTION E
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE
-	220422_SK6002.dwg	06/12/2011
REGISTRATION NUMBER		
0083.086.BA.2016		

SHEET No.

2



LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- ROAD CLOSURE

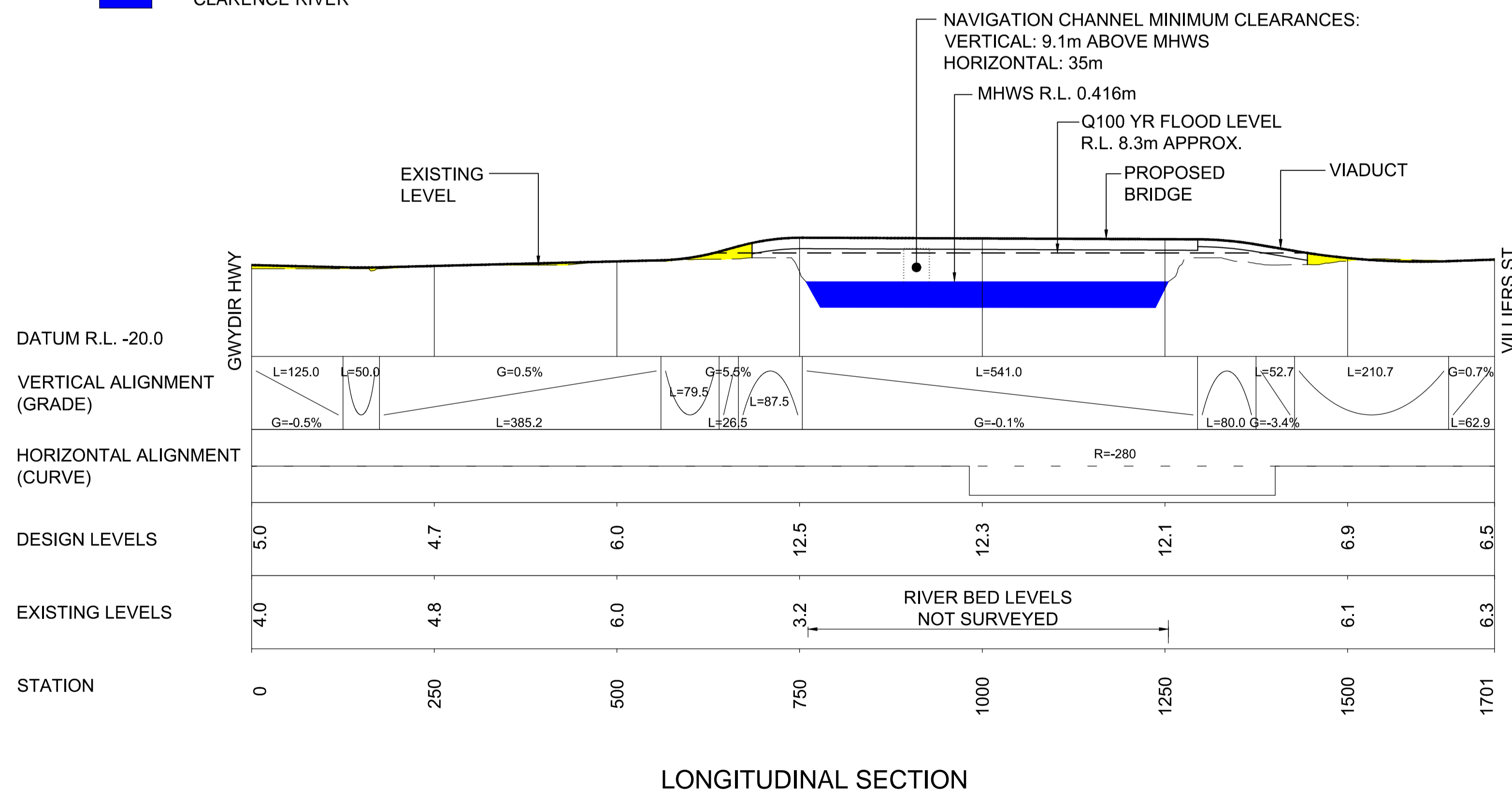
LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
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PLAN



E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

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VERTICAL SCALE 1:1000m	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

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CLARENCE VALLEY COUNCIL
 MAIN ROAD 83 - SUMMERLAND WAY
 ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION 5
 PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE
-	220422_SK6003.dwg	06/12/2011
REGISTRATION NUMBER		
0083.086.BA.2016		

SHEET No.

3



LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- ROAD CLOSURE

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
2. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
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 - THOSE THAT WILL REQUIRE AN UPGRADE TO ACCOMMODATE TURNING VEHICLES.

DATUM R.L. -34.0

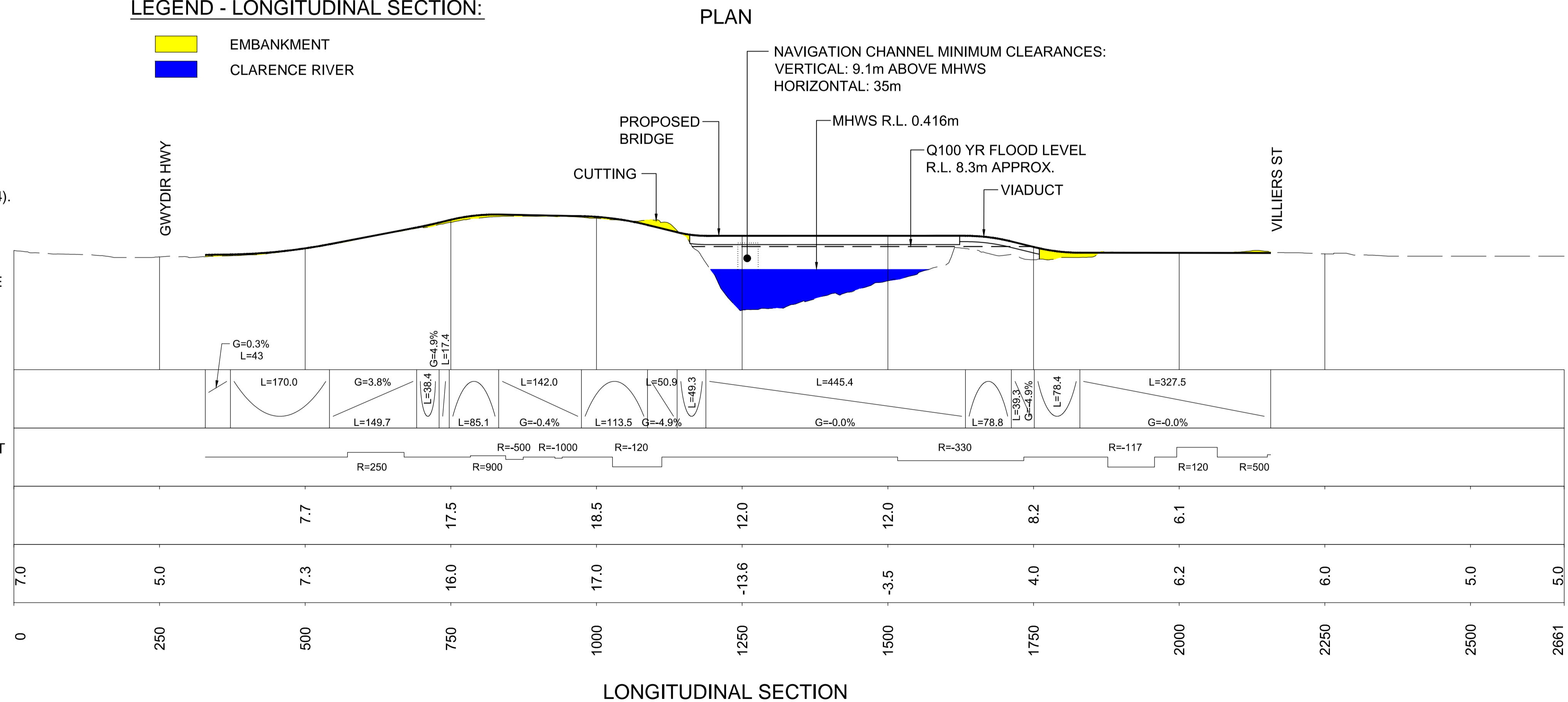
VERTICAL ALIGNMENT (GRADE)

HORIZONTAL ALIGNMENT (CURVE)

DESIGN LEVELS

EXISTING LEVELS

STATION



LONGITUDINAL SECTION

E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
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VERTICAL SCALE 1:1000m	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56 Height Datum: A.H.D.	

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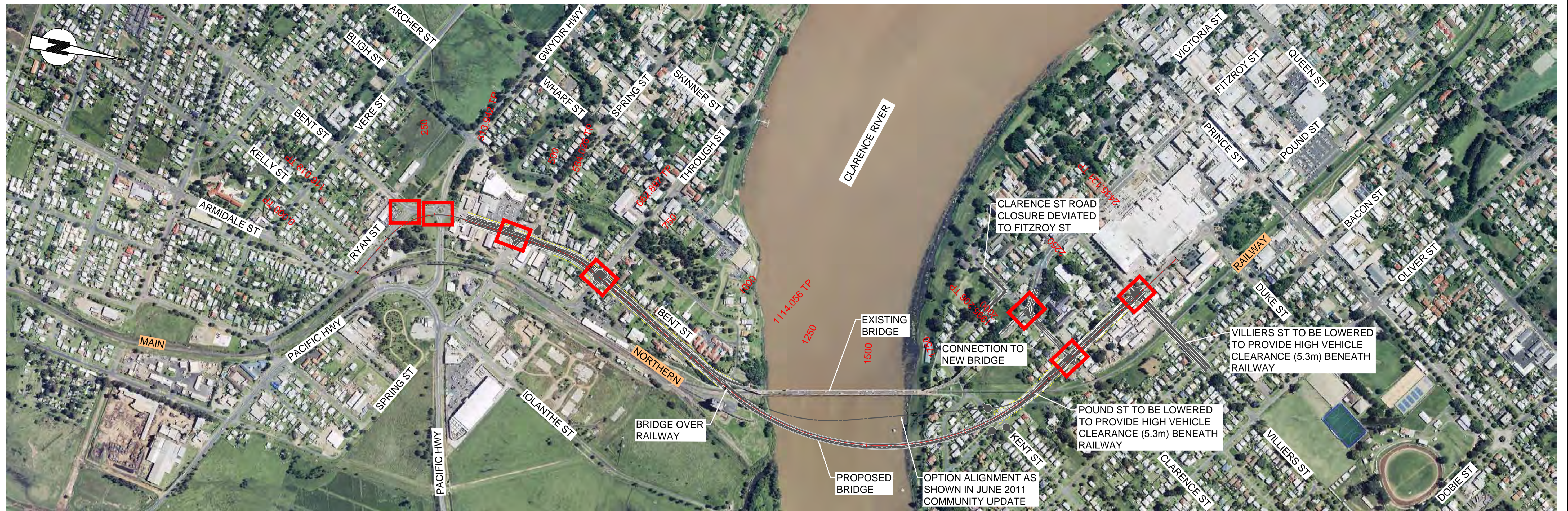
DESIGNED:

REVIEWED:

ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION A
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6004.dwg	06/12/2011	4
REGISTRATION NUMBER			
0083.086.BA.2016			



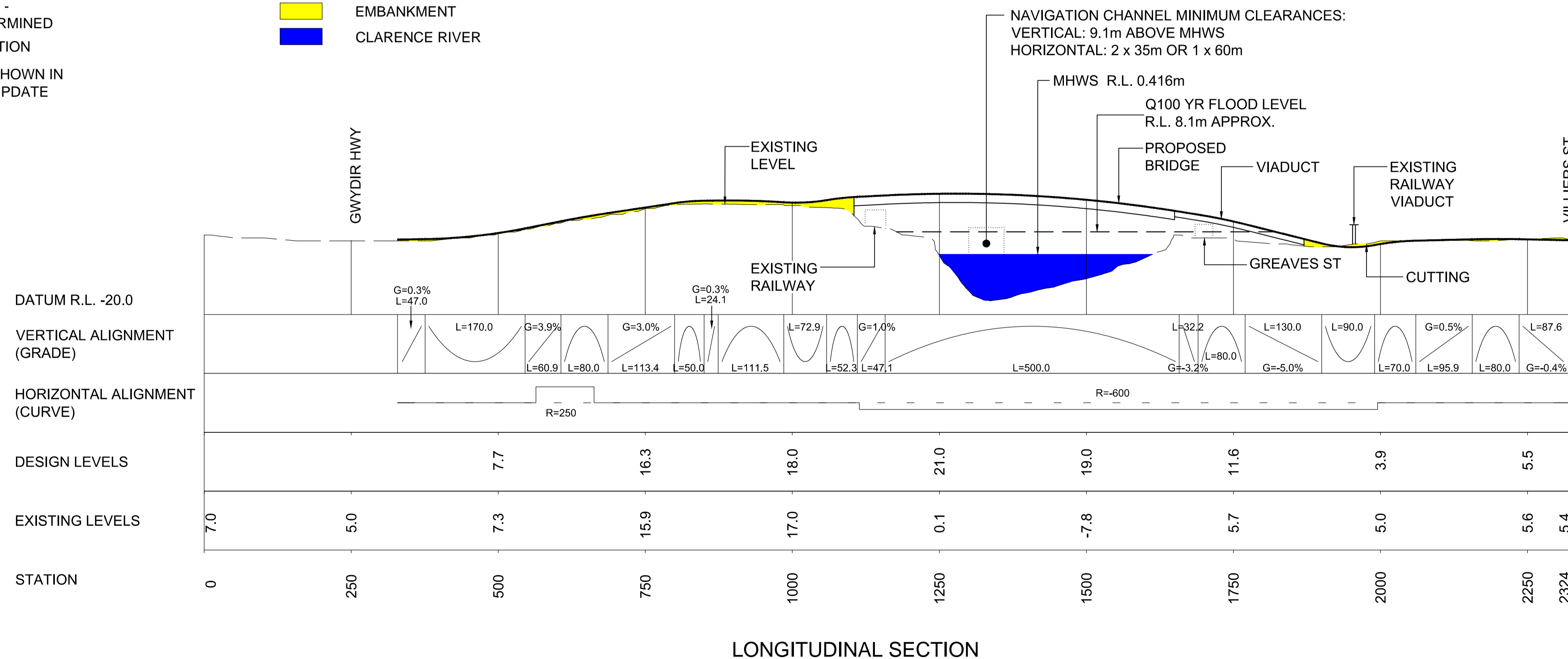
LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- OPTION ALIGNMENT AS SHOWN IN JUNE 2011 COMMUNITY UPDATE
- ROAD CLOSURE

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

PLAN



NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
2. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
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B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
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VERTICAL SCALE 1:1000m	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

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ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION 6
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6006.dwg	06/12/2011	6
REGISTRATION NUMBER			
0083.086.BA.2016			

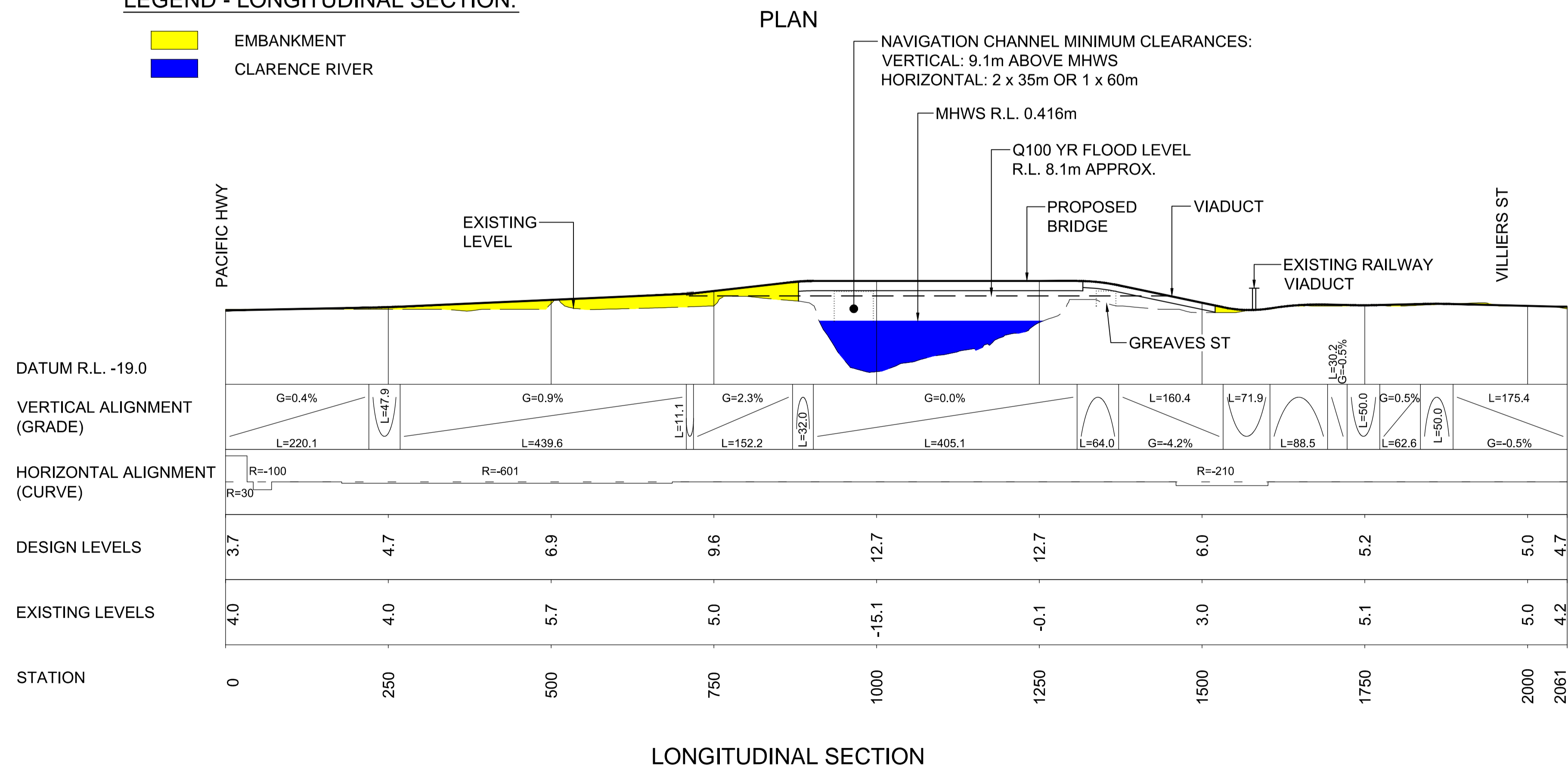


LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION

LEGEND - LONGITUDINAL SECTION:

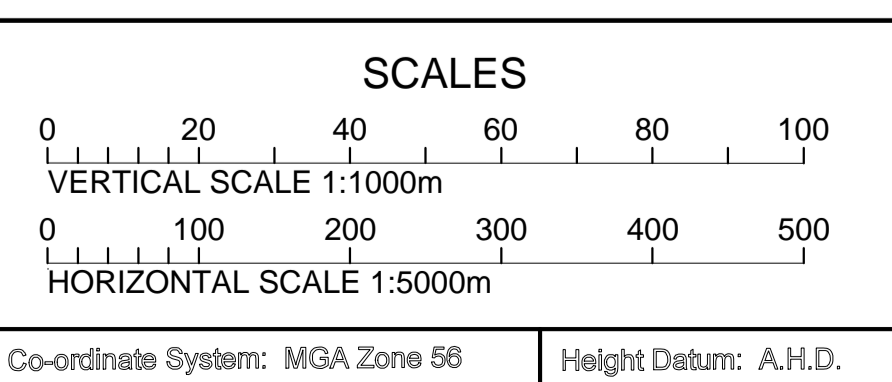
- EMBANKMENT
- CLARENCE RIVER



NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
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E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
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B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		



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REVIEWED.....

ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION C
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6007.dwg	06/12/2011	7
REGISTRATION NUMBER			
0083.086.BA.2016			



LEGEND - PLAN:

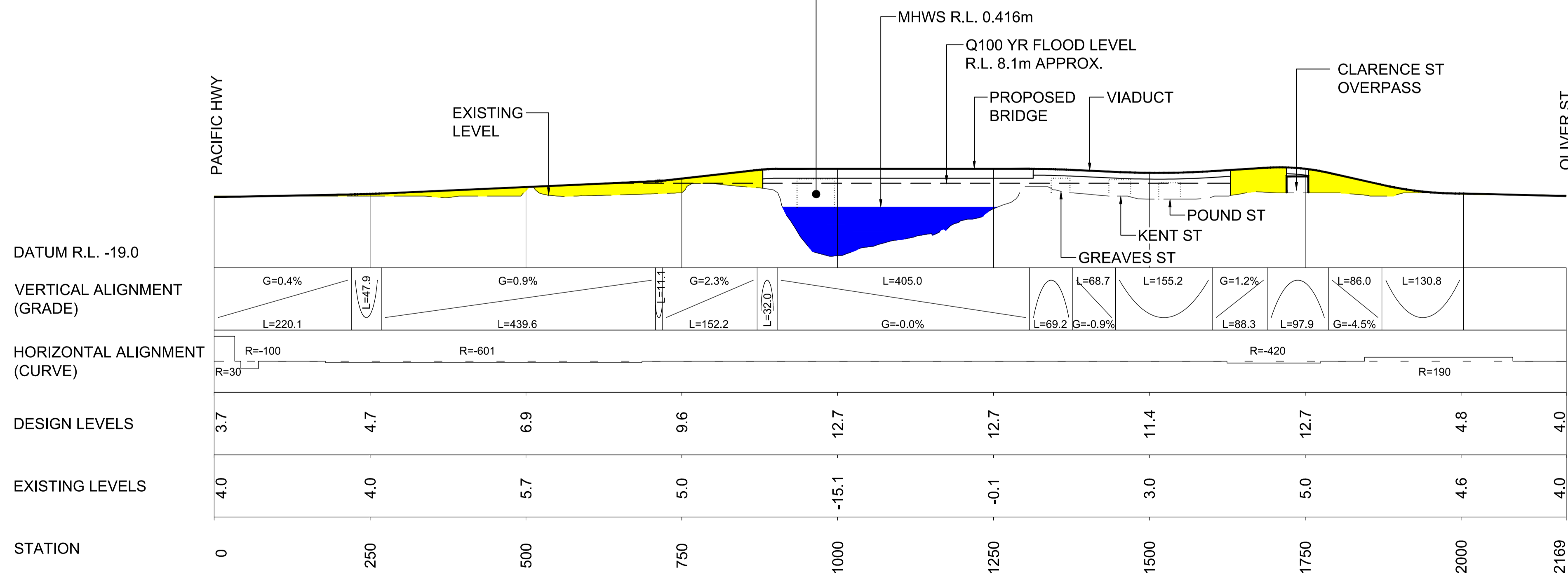
- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

PLAN

NAVIGATION CHANNEL MINIMUM CLEARANCES:
 VERTICAL: 9.1m ABOVE MHWS
 HORIZONTAL: 2 x 35m OR 1 x 60m



LONGITUDINAL SECTION

NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON LOWER CLARENCE RIVER FLOOD STUDY REVIEW (WBM 2004).
2. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
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E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
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B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
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VERTICAL SCALE 1:1000m	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

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DESIGNED:

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ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
 MAIN ROAD 83 - SUMMERLAND WAY
 ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION D
 PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6008.dwg	06/12/2011	8
REGISTRATION NUMBER			
0083.086.BA.2016			



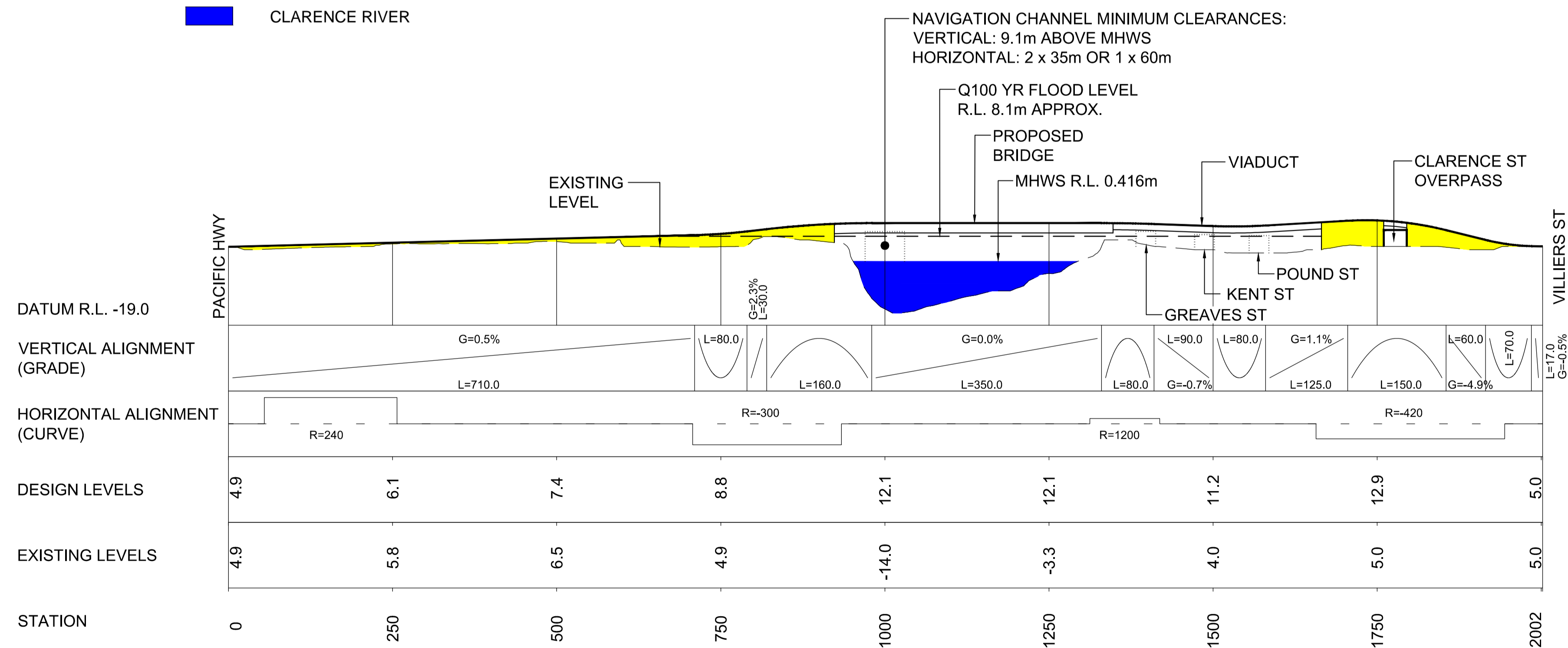
LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- ROAD CLOSURE

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

PLAN

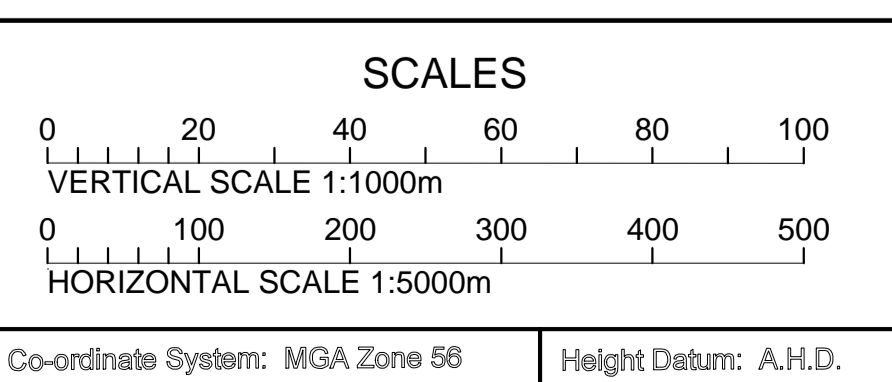


LONGITUDINAL SECTION

NOTES

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E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
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B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		



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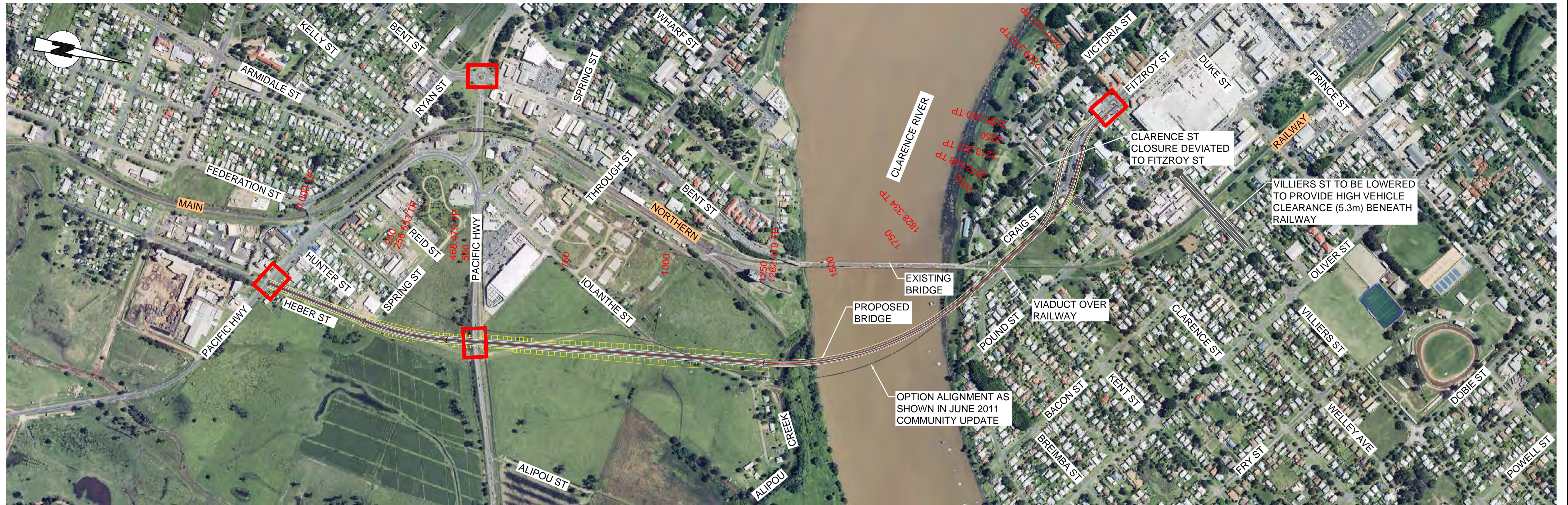
DESIGNED:

REVIEWED:

ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION I
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6009.dwg	06/12/2011	9
REGISTRATION NUMBER			
0083.086.BA.2016			



LEGEND - PLAN:

- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- OPTION ALIGNMENT AS SHOWN IN JUNE 2011 COMMUNITY UPDATE
- ROAD CLOSURE

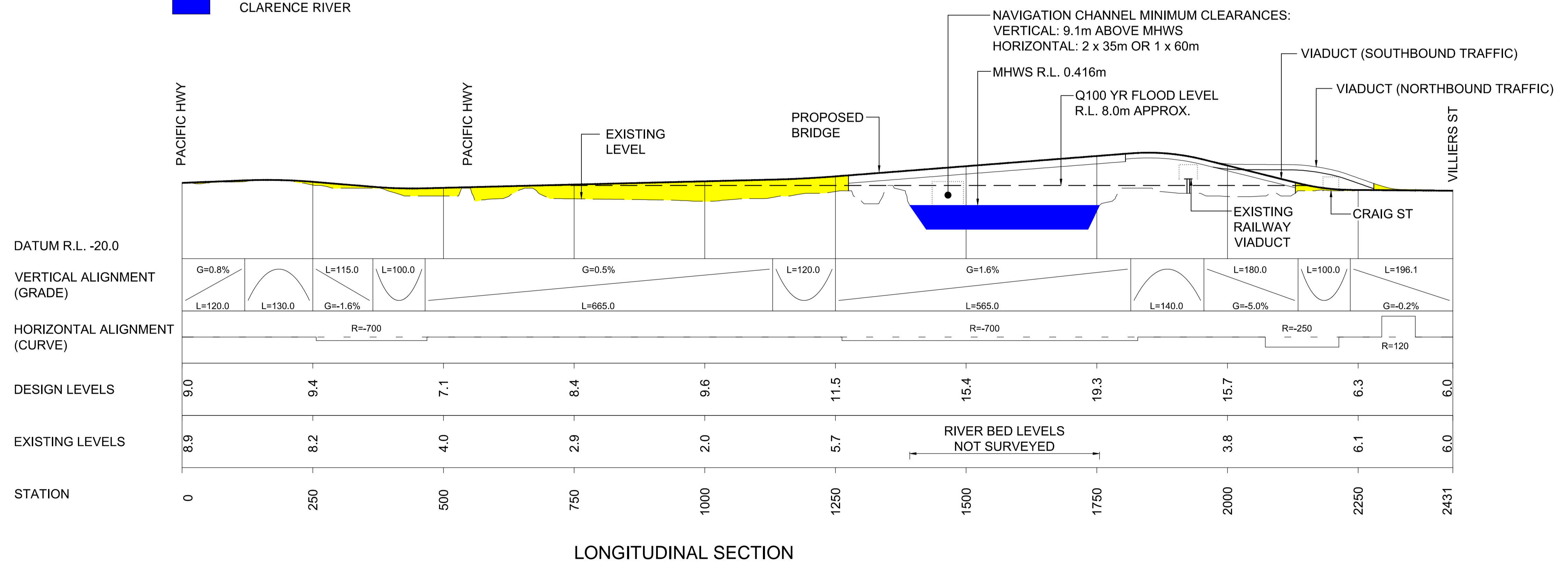
NOTES

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2. IN ADDITION TO THE INTERSECTION UPGRADES SHOWN ON THE PLAN, THE OPTION WOULD INCLUDE AN UPGRADE OF THE FOLLOWING INTERSECTIONS :
 - FITZROY ST / PRINCE ST
3. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
 - WHERE THE ESTIMATED NUMBER OF VEHICLES APPROACHING THE INTERSECTIONS IS RELATIVELY HIGH IN 2019 AND WOULD REQUIRE INTERSECTION IMPROVEMENTS.
 - THOSE THAT WILL REQUIRE AN UPGRADE TO ACCOMMODATE TURNING VEHICLES.

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

PLAN



LONGITUDINAL SECTION

E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
0 20 40 60 80 100	0 100 200 300 400 500
VERTICAL SCALE 1:1000m	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

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ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION 8
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6010.dwg	06/12/2011	10
REGISTRATION NUMBER			
0083.086.BA.2016			



LEGEND - PLAN:

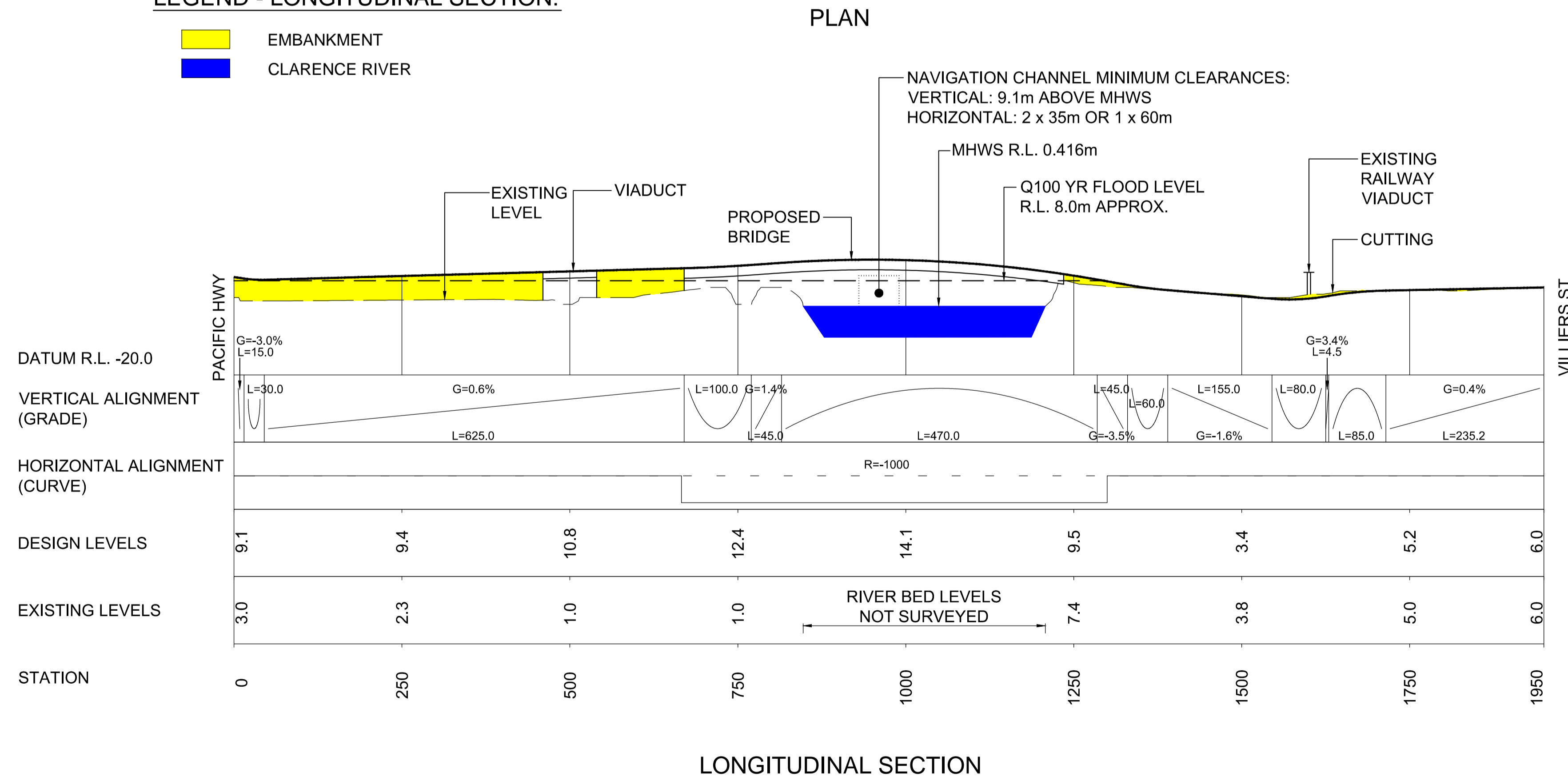
- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- OPTION ALIGNMENT AS SHOWN IN JUNE 2011 COMMUNITY UPDATE

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

NOTES

1. Q100 YEAR FLOOD LEVELS BASED ON WBM LOWER CLARENCE RIVER FLOOD STUDY 2004.
2. IN ADDITION TO THE INTERSECTION UPGRADES SHOWN ON THE PLAN, THE OPTION WOULD INCLUDE AN UPGRADE OF THE FOLLOWING INTERSECTIONS :
 - PACIFIC HWY / GWYDIR HWY
 - GWYDIR HWY / BENT ST
3. INTERSECTIONS REQUIRING AN UPGRADE INCLUDE:
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E	PROR - FINAL - RMS NAME UPDATED	REB	6/12/2011
D	PROR - PARTS 1 & 2 - ISSUE	REB	24/10/2011
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B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
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0 100 200 300 400 500	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

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ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION 9
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6011.dwg	06/12/2011	11
REGISTRATION NUMBER			
0083.086.BA.2016			



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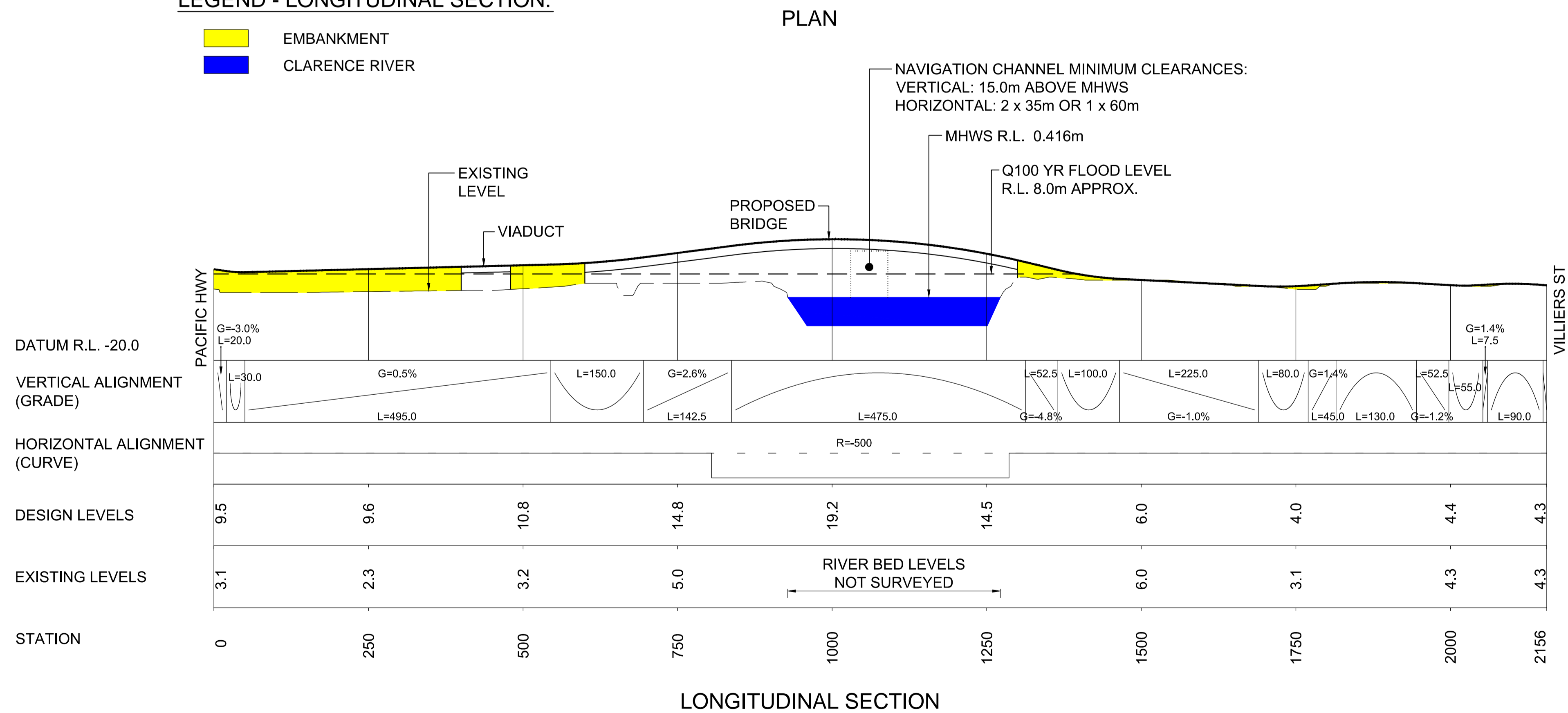
- INTERSECTION UPGRADE - TREATMENT TO BE DETERMINED
- PRELIMINARY ROUTE OPTION
- ROAD CLOSURE

LEGEND - LONGITUDINAL SECTION:

- EMBANKMENT
- CLARENCE RIVER

NOTES

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 - GWYDIR HWY / BENT ST
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C	PROR - PARTS 1 & 2 - DRAFT 3	REB	6/10/2011
B	PROR - PARTS 1 & 2 - DRAFT 2	REB	26/09/2011
A	PROR - PART 2 - DRAFT 1	REB	30/08/2011
No.	Amendment Description	Initials	Date
A1 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES	
0 20 40 60 80 100	VERTICAL SCALE 1:1000m
0 100 200 300 400 500	HORIZONTAL SCALE 1:5000m
Co-ordinate System: MGA Zone 56	
Height Datum: A.H.D.	

ARUP
Arup Pty Ltd
ABN 18 000 966 165

DESIGNED:

REVIEWED:

ROADS AND MARITIME SERVICES

CLARENCE VALLEY COUNCIL
MAIN ROAD 83 - SUMMERLAND WAY
ADDITIONAL CROSSING OF THE CLARENCE RIVER AT GRAFTON
CORRIDOR 2 - PRELIMINARY ROUTE OPTION 10
PLAN AND LONGITUDINAL SECTION

FILE No.	DRAWING	PRINTED DATE	SHEET No.
-	220422_SK6012.dwg	06/12/2011	12
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