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P1	FINALISED FOR REPORT	27.03.18	H.M.	C.H.
P0	ISSUED FOR INFORMATION	20.11.17	C.H.	C.H.



Designed	C. HAMOND
Date	17.11.2017
Drawn	C. HAMOND
Approved	C. HAMOND
Date	17.11.2017
PS Number	N/A

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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS
Drawing Title	OVERALL INSET PLAN

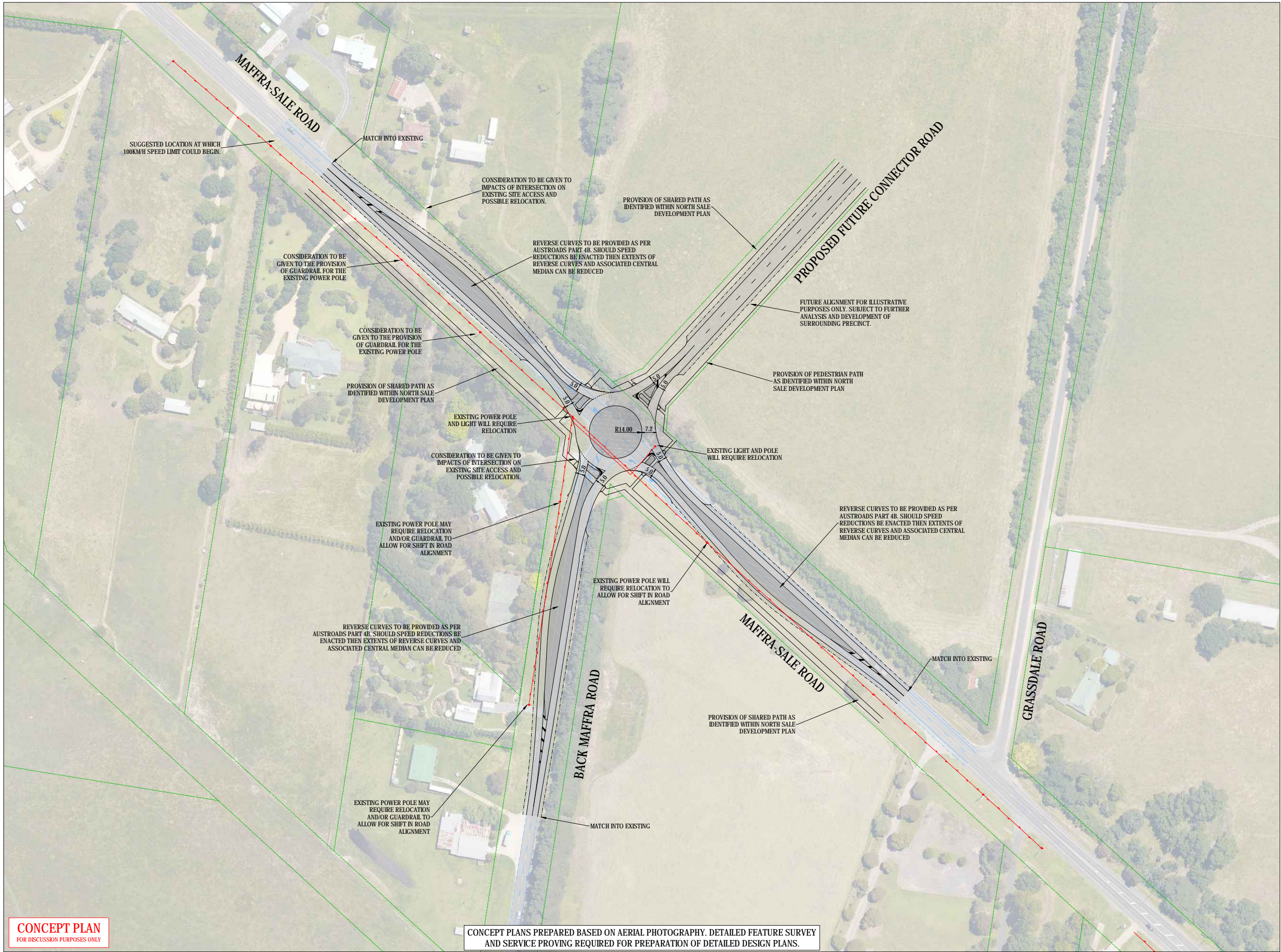
Sheet 01 of 9

Scale  
1:5000 @ A1

Project Ref	Stage No	Drawing No	Rev
1700484	TR	001	P1







LEGEND	
	EXISTING
	ELECTRICITY OVERHEAD
	ELECTRICITY UNDERGROUND
	DRAIN UNDERGROUND
	ROAD RESERVE
	PROPOSED LINE MARKING
	PROPOSED KERB
	PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - MAFFRA-SALE ROAD - 100KM/H
    - BACK MAFFRA ROAD - 100KM/H
  - ROUNDABOUT DESIGNED FOR V80KM/H OPERATING SPEEDS AS PER AUSTRROADS GUIDE TO ROAD DESIGN: PART 4B. DESIGN OF ROUNDABOUT TO INCLUDE:
    - 14.0m CENTRAL RADIUS
    - MINIMUM 7.2m CIRCULATION LANE WIDTH
  - PROPOSED SPEED ON MAFFRA-SALE ROAD 80KM/H. (APPROACH CURVES USED TO ASSIST WITH SPEED REDUCTION AS PER AUSTRROADS RECOMMENDATION)
  - PROPOSED SPEED ON BACK MAFFRA ROAD 80KM/H. (APPROACH CURVES USED TO ASSIST WITH SPEED REDUCTION AS PER AUSTRROADS RECOMMENDATION)
  - PROPOSED SPEED ON FUTURE CONNECTOR ROAD 60KM/H.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN DESIGN SPEED OF EACH LEG AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - REVERSE CURVES TO BE PROVIDED ON APPROACH TO INTERSECTION AS IDENTIFIED WITHIN AUSTRROADS GUIDE TO ROAD DESIGN PART 4B.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - MAFFRA-SALE ROAD - CROSS SECTION 'U'
    - FUTURE CONNECTOR ROAD - CROSS SECTION 'E'
    - BACK MAFFRA ROAD - N/A
  - CONSIDERATION TO BE GIVEN TO FURTHER REDUCTION OF SPEED TO 60KM/H ALONG MAFFRA-SALE ROAD AND BACK MAFFRA ROAD.
    - ROUNDABOUT CENTRE ANNULUS OF 14.0M EXCEEDS MINIMUM REQUIREMENTS FOR 60KM/H OPERATING SPEEDS AND WILL BE APPROPRIATE SHOULD FOR 60KM/H SPEEDS
    - REDUCTION IN SPEED WILL ALLOW FOR REDUCED/REMOVAL OF REVERSE CURVES AND ASSOCIATED MEDIAN ON APPROACH TO INTERSECTION.

**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
The locations of underground services are approximate only and their exact position should be proven on site.  
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P2	UPDATED AS PER COUNCIL/VICROADS COMMENTS	20.11.17	C.H. C.H.
P1	UPDATED AS PER COUNCIL/VICROADS COMMENTS	09.10.17	H.M. C.H.
P0	ISSUED FOR INFORMATION	02.08.17	C.H. C.H.



Designed	C.HAMOND
Date	27.07.2017
Drawn	C. HAMOND
Approved	C. HAMOND
Date	27.07.2017
PS Number	N/A

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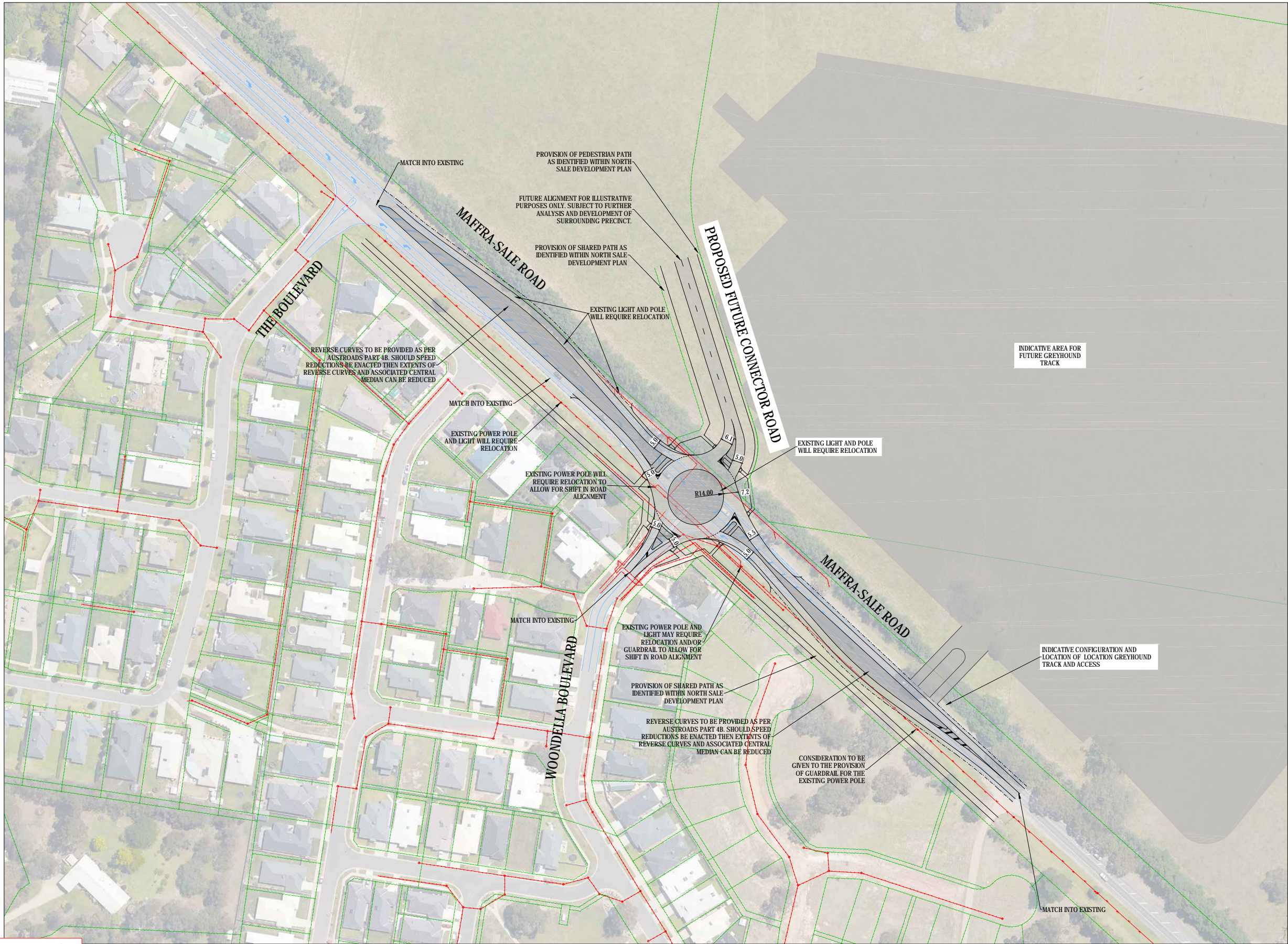
Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS		
Drawing Title	INTERSECTION OF MAFFRA-SALE ROAD AND BACK MAFFRA ROAD		

Sheet 02 of 9

Scale  
1:1000 @ A1

Project Ref	Stage No	Drawing No	Rev
1700484	TR	010	P3





LEGEND	
	EXISTING
	ELECTRICITY OVERHEAD
	ELECTRICITY UNDERGROUND
	DRAIN UNDERGROUND
	RECYCLED WATER UNDERGROUND
	WATER UNDERGROUND
	ROAD RESERVE
	PROPOSED LINE MARKING
	PROPOSED KERB
	PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - MAFFRA-SALE ROAD - 80KM/H
    - WONDELLA BOULEVARD - 50KM/H
  - ROUNDABOUT DESIGNED FOR V80KM/H OPERATING SPEEDS AS PER AUSTRROADS GUIDE TO ROAD DESIGN: PART 4B. DESIGN OF ROUNDABOUT TO INCLUDE:
    - 14.0M CENTRAL RADIUS
    - MINIMUM 7.2M CIRCULATION LANE WIDTH
  - PROPOSED SPEED ON MAFFRA-SALE ROAD 80KM/H. (APPROACH CURVES USED TO ASSIST WITH SPEED REDUCTION AS PER AUSTRROADS RECOMMENDATION)
  - PROPOSED SPEED ON WONDELLA BOULEVARD 50KM/H. (ISLAND DESIGNED AS PER AUSTRROADS RECOMMENDATION)
  - PROPOSED SPEED ON FUTURE CONNECTOR ROAD 60KM/H.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN DESIGN SPEED OF EACH LEG AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - REVERSE CURVES TO BE PROVIDED ON APPROACH TO INTERSECTION AS IDENTIFIED WITHIN AUSTRROADS GUIDE TO ROAD DESIGN PART 4B.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - MAFFRA-SALE ROAD - CROSS SECTION 'U'
    - FUTURE CONNECTOR ROAD - CROSS SECTION 'E'
  - INDICATIVE LOCATION OF ENTRANCE TO GREYHOUND TRACK SHOWN. FURTHER DETAILED DESIGN REQUIRED TO DETERMINE FINAL CONFIGURATION AND LOCATION
  - CONSIDERATION TO BE GIVEN TO FURTHER REDUCTION OF SPEED TO 60KM/H ALONG MAFFRA-SALE ROAD.
    - ROUNDABOUT CENTRE ANNULUS OF 14.0M EXCEEDS MINIMUM REQUIREMENTS FOR 60KM/H OPERATING SPEEDS AND WILL BE APPROPRIATE SHOULD FOR 60KM/H SPEEDS
    - REDUCTION IN SPEED WILL ALLOW FOR REDUCED/REMOVAL OF REVERSE CURVES AND ASSOCIATED MEDIAN ON APPROACH TO INTERSECTION.

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P2	UPDATED AS PER COUNCIL/VICROADS COMMENTS	20.11.17	C.H. C.H.
P1	UPDATED AS PER COUNCIL/VICROADS COMMENTS	09.10.17	H.M. C.H.
P0	ISSUED FOR INFORMATION	02.08.17	H.M. C.H.



Designed	H.MITCHELL
Date	01.08.2017
Drawn	H.MITCHELL
Approved	C. HAMOND
Date	02.08.2017
PS Number	N/A

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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS
Drawing Title	INTERSECTION OF MAFFRA-SALE ROAD AND WONDELLA BOULEVARD

Sheet 03 of 9			
Scale	1:1000 @ A1	Project Ref	1700484
Stage No	TR	Drawing No	020
Rev	P3		





**LEGEND**

- EXISTING/UNDER CONSTRUCTION
- ELECTRICITY OVERHEAD
- ELECTRICITY UNDERGROUND
- DRAIN UNDERGROUND
- ROAD RESERVE
- PROPOSED LINE MARKING
- PROPOSED KERB
- PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - PRINCES HIGHWAY NORTHBOUND - 80KM/H TO CANTWELL DRIVE, 100KM/H AFTER CANTWELL DRIVE
    - PRINCES HIGHWAY SOUTHBOUND - 100KM/H TO CANTWELL DRIVE, 80KM/H AFTER CANTWELL DRIVE
    - CANTWELL DRIVE - 50KM/H
  - PEDESTRIAN SIGNALISED INTERSECTION DESIGN BASED ON 80KM/H OPERATING SPEED ON PRINCES HIGHWAY.
  - CANTWELL DRIVE INTERSECTION DESIGN BASED ON:
    - 80KM/H OPERATING SPEED ON PRINCES HIGHWAY.
    - 50KM/H OPERATING SPEED ON CANTWELL DRIVE.
    - 60KM/H OPERATING SPEED ON FUTURE CONNECTOR ROAD.
  - POST DEVELOPMENT, SPEED ALONG PRINCES HIGHWAY ANTICIPATED TO BE REDUCED TO 60KM/H.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN ROAD DESIGN SPEED AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - PRINCES HIGHWAY - CROSS SECTION 'R'
    - FUTURE CONNECTOR ROAD (CANTWELL DRIVE EXTENSION) - CROSS SECTION 'F'
    - SERVICE LANE - CROSS SECTION 'T'

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P4	UPDATED AS PER COUNCIL/VICROADS COMMENTS	20.11.17	C.H. C.H.
P3	UPDATED TO INCLUDE SERVICE LANE	11.10.17	C.H. C.H.
P2	UPDATED AS PER COUNCIL/VICROADS COMMENTS	09.10.17	H.M. C.H.
P1	ISSUED FOR INFORMATION	24.08.17	H.M. C.H.
P0	ISSUED FOR INFORMATION	24.08.17	H.M. C.H.

P5	FINALISED FOR REPORT	27.03.18	H.M. C.H.
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Designed	H.MITCHELL
Date	24.08.2017
Drawn	H.MITCHELL
Approved	C. HAMOND
Date	24.08.2017
PS Number	N/A

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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS
Drawing Title	PRINCES HIGHWAY SIGNALISED PEDESTRIAN CROSSING OVERALL INSET PLAN

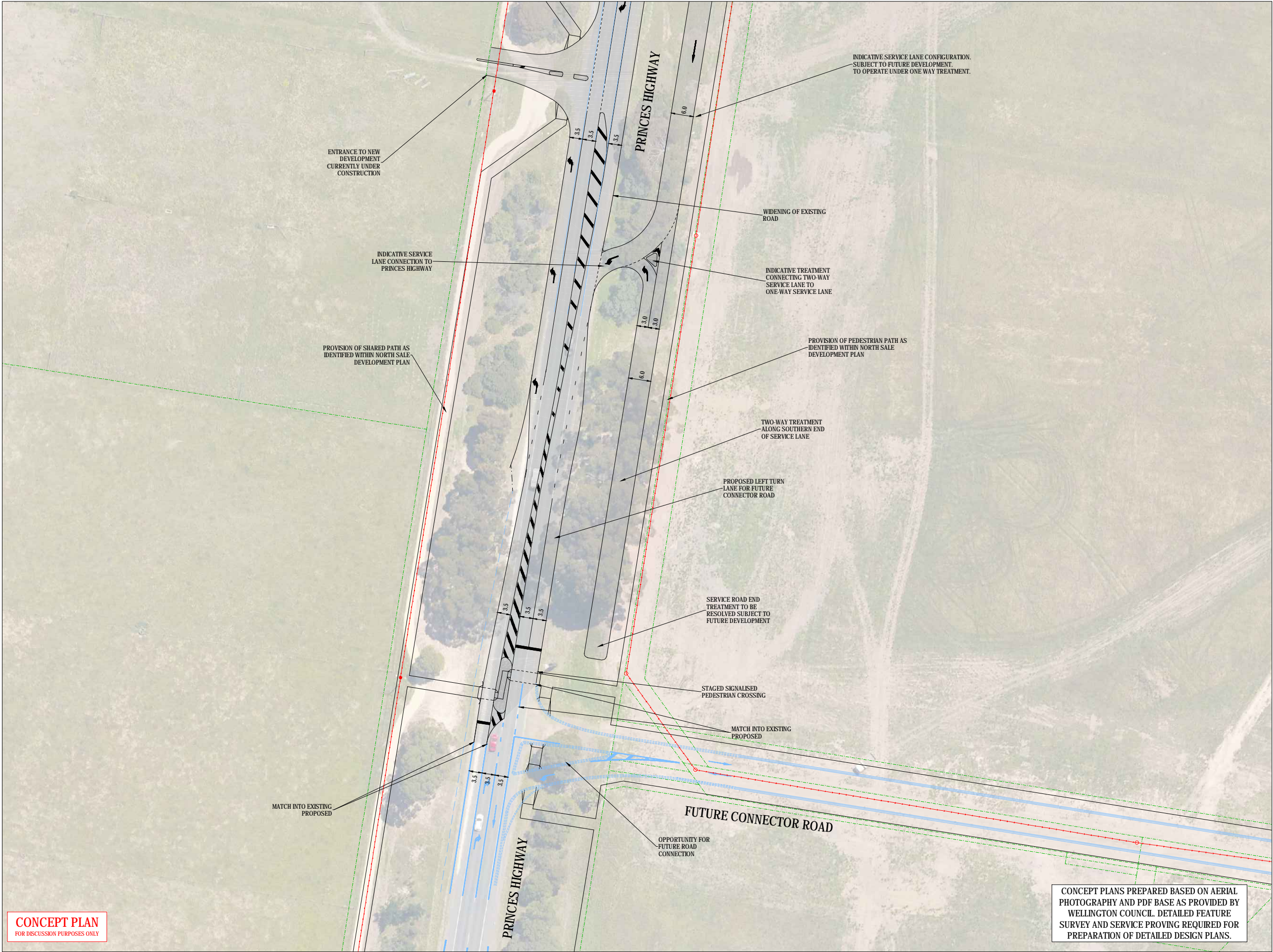
Sheet 04 of 9			
Scale 1:1000 @ A1			
Project Ref	Stage No	Drawing No	Rev
1700484	TR	040	P5











**LEGEND**

- EXISTING/UNDER CONSTRUCTION
- ELECTRICITY OVERHEAD
- ELECTRICITY UNDERGROUND
- DRAIN UNDERGROUND
- ROAD RESERVE
- PROPOSED LINE MARKING
- PROPOSED KERB
- PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - PRINCES HIGHWAY - 80KM/H
  - PEDESTRIAN SIGNALISED INTERSECTION DESIGN BASED ON 80KM/H OPERATING SPEED ON PRINCES HIGHWAY.
  - POST DEVELOPMENT, SPEED ALONG PRINCES HIGHWAY ANTICIPATED TO BE REDUCED TO 60KM/H.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN ROAD DESIGN SPEED AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - PRINCES HIGHWAY - CROSS SECTION 'R'

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**CONCEPT PLAN**  
FOR DISCUSSION PURPOSES ONLY

CONCEPT PLANS PREPARED BASED ON AERIAL PHOTOGRAPHY AND PDF BASE AS PROVIDED BY WELLINGTON COUNCIL. DETAILED FEATURE SURVEY AND SERVICE PROVING REQUIRED FOR PREPARATION OF DETAILED DESIGN PLANS.

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P4	UPDATED AS PER COUNCIL/VICROADS COMMENTS	20.11.17	C.H.	C.H.
P3	UPDATED TO INCLUDE SERVICE LANE	11.10.17	C.H.	C.H.
P2	UPDATED AS PER COUNCIL/VICROADS COMMENTS	09.10.17	H.M.	C.H.
P1	ISSUED FOR INFORMATION	24.08.17	H.M.	C.H.
P0	ISSUED FOR INFORMATION	24.08.17	H.M.	C.H.
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Designed	H.MITCHELL
Date	24.08.2017
Drawn	H.MITCHELL
Approved	C. HAMOND
Date	24.08.2017
PS Number	N/A

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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS
Drawing Title	PRINCES HIGHWAY SIGNALISED PEDESTRIAN CROSSING INSET PLAN 2

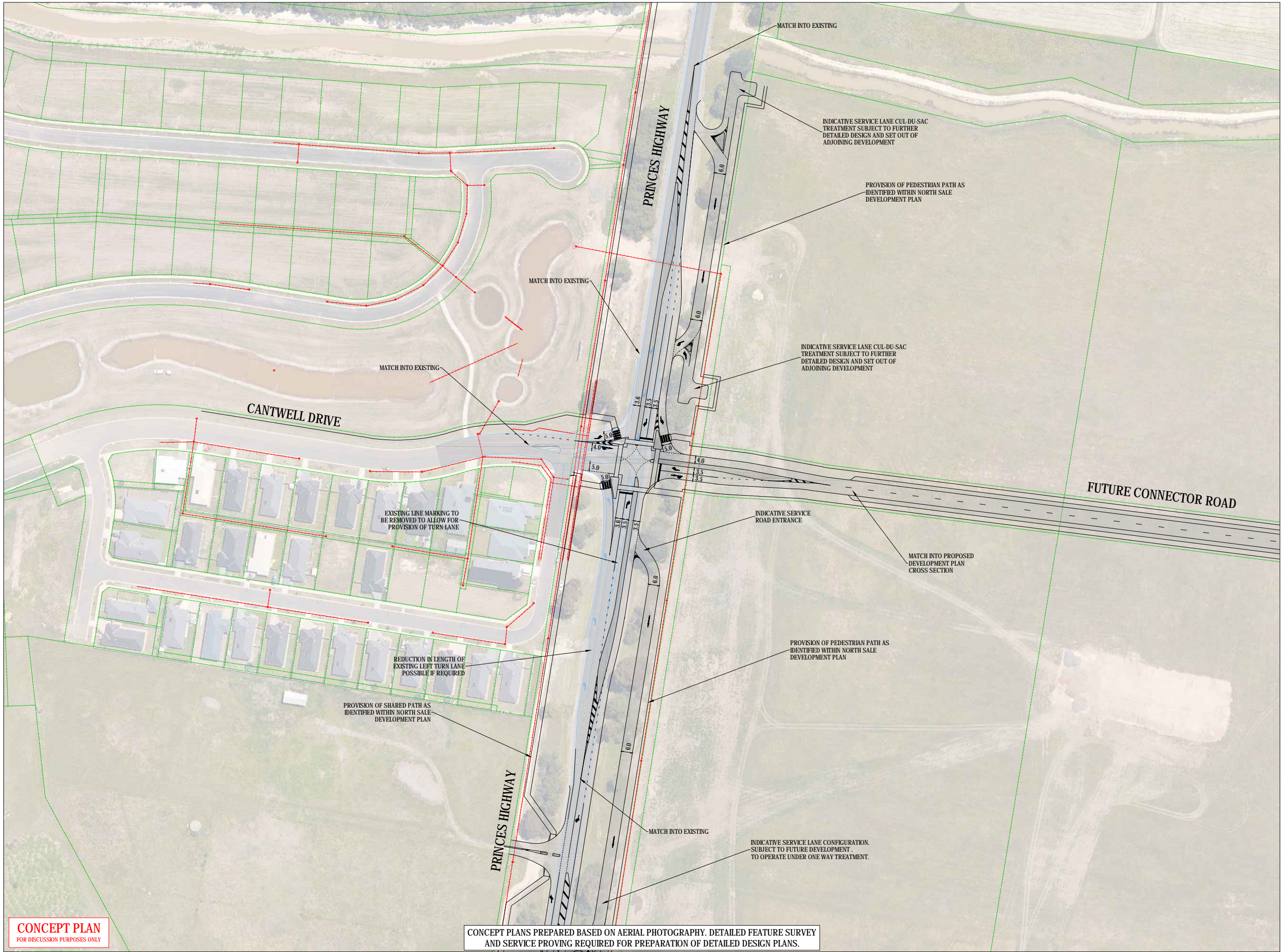
Sheet 06 of 9

Scale  
**1:500 @ A1**

Project Ref	Stage No	Drawing No	Rev
1700484	TR	042	P5







**LEGEND**

- EXISTING
- ELECTRICITY OVERHEAD
- ELECTRICITY UNDERGROUND
- DRAIN UNDERGROUND
- ROAD RESERVE
- PROPOSED LINE MARKING
- PROPOSED KERB
- PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - PRINCES HIGHWAY NORTHBOUND - 80KM/H TO CANTWELL DRIVE, 100KM/H AFTER CANTWELL DRIVE
    - PRINCES HIGHWAY SOUTHBOUND - 100KM/H TO CANTWELL DRIVE, 80KM/H AFTER CANTWELL DRIVE
    - CANTWELL DRIVE - 50KM/H
  - CANTWELL DRIVE INTERSECTION DESIGN BASED ON:
    - 80KM/H OPERATING SPEED ON PRINCES HIGHWAY.
    - 50KM/H OPERATING SPEED ON CANTWELL DRIVE.
    - 60KM/H OPERATING SPEED ON FUTURE CONNECTOR ROAD.
  - POST DEVELOPMENT, SPEED ALONG PRINCES HIGHWAY ANTICIPATED TO BE REDUCED TO 60KM/H.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN ROAD DESIGN SPEED AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - PRINCES HIGHWAY - CROSS SECTION 'R'
    - FUTURE CONNECTOR ROAD (CANTWELL DRIVE EXTENSION) - CROSS SECTION 'F'
    - SERVICE LANE - CROSS SECTION 'T'

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CONCEPT PLANS PREPARED BASED ON AERIAL PHOTOGRAPHY. DETAILED FEATURE SURVEY AND SERVICE PROVING REQUIRED FOR PREPARATION OF DETAILED DESIGN PLANS.

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Project Details  
**NORTH SALE MASTERPLAN  
CONCEPT INTERSECTION PLANS**

Drawing Title  
**INTERSECTION OF PRINCES HIGHWAY  
AND CANTWELL DRIVE**

Sheet 07 of 9

Scale  
**1:1000 @ A1**

Project Ref	Stage No	Drawing No	Rev
1700484	TR	050	P3







LEGEND	
	EXISTING
	ELECTRICITY OVERHEAD
	ELECTRICITY UNDERGROUND
	DRAIN UNDERGROUND
	ROAD RESERVE
	PROPOSED LINE MARKING
	PROPOSED KERB
	PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - GIBSON ROAD - 80KM/H
    - COBAINS ROAD - 80KM/H
  - POST DEVELOPMENT, SPEEDS TO REMAIN AS PER EXISTING CONDITIONS.
  - INTERSECTION DESIGN BASED ON 80KM/H OPERATING SPEEDS.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN ROAD DESIGN SPEED AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - COBAINS ROAD - CROSS SECTION 'S'
    - GIBSONS ROAD - CROSS SECTION 'T'

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

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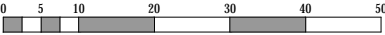
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PS Number	N/A




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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS		
Drawing Title	INTERSECTION OF GIBSON ROAD AND COBAINS ROAD EXISTING CONDITIONS UPGRADE		

Sheet 08 of 9		
Scale	1:500 @ A1	
Project Ref	Stage No	Drawing No
1700484	TR	060
		Rev
		P3





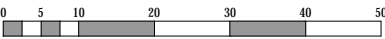
LEGEND	
	EXISTING
	ELECTRICITY OVERHEAD
	ELECTRICITY UNDERGROUND
	DRAIN UNDERGROUND
	ROAD RESERVE
	PROPOSED LINE MARKING
	PROPOSED KERB
	PROPOSED EDGE OF BITUMEN

- GENERAL NOTES:**
- CONCEPT PLANS BASED ON AERIAL IMAGE.
  - DETAILED FEATURE SURVEY REQUIRED FOR DETAILED PLAN.
  - SERVICES INFORMATION PROVIDED BY WELLINGTON SHIRE COUNCIL.
  - CURRENT POSTED SPEED LIMITS:
    - GIBSON ROAD - 80KM/H
    - COBAINS ROAD - 80KM/H
  - POST DEVELOPMENT, SPEEDS TO REMAIN AS PER EXISTING CONDITIONS.
  - INTERSECTION DESIGN BASED ON 80KM/H OPERATING SPEEDS.
  - COBAINS ROAD TO BE CLOSED AT EASTERN SIDE OF INTERSECTION.
  - CLEAR ZONES AND OFFSETS TO BE PROVIDED BASED ON CHOSEN ROAD DESIGN SPEED AND IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
  - PEDESTRIAN AND CYCLIST CONNECTIVITY TO BE FACILITATED VIA THE PROVISION OF PEDESTRIAN AND SHARED PATHS AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN CROSS SECTIONS.
  - ROAD CROSS SECTIONS TO BE PROVIDED AS IDENTIFIED WITHIN NORTH SALE DEVELOPMENT PLAN. CORRESPONDING CROSS SECTIONS AS FOLLOWS:
    - COBAINS ROAD - CROSS SECTION 'S'
    - GIBSONS ROAD - CROSS SECTION 'T'

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No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.  
**DIAL 1100 BEFORE YOU DIG**  
[www.1100.com.au](http://www.1100.com.au)

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P3	FINALISED FOR REPORT	27.03.18	H.M. C.H.
P2	UPDATED AS PER COUNCIL/VICROADS COMMENTS	20.11.17	C.H. C.H.
P1	UPDATED AS PER COUNCIL/VICROADS COMMENTS	09.10.17	H.M. C.H.
P0	ISSUED FOR INFORMATION	02.08.17	C.H. C.H.



Designed	C.HAMOND
Date	27.07.2017
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Project Details	NORTH SALE MASTERPLAN CONCEPT INTERSECTION PLANS		
Drawing Title	INTERSECTION OF GIBSON ROAD AND COBAINS ROAD EAST LEG CLOSURE		

Sheet 09 of 9

Scale  
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1700484	TR	061	P3

