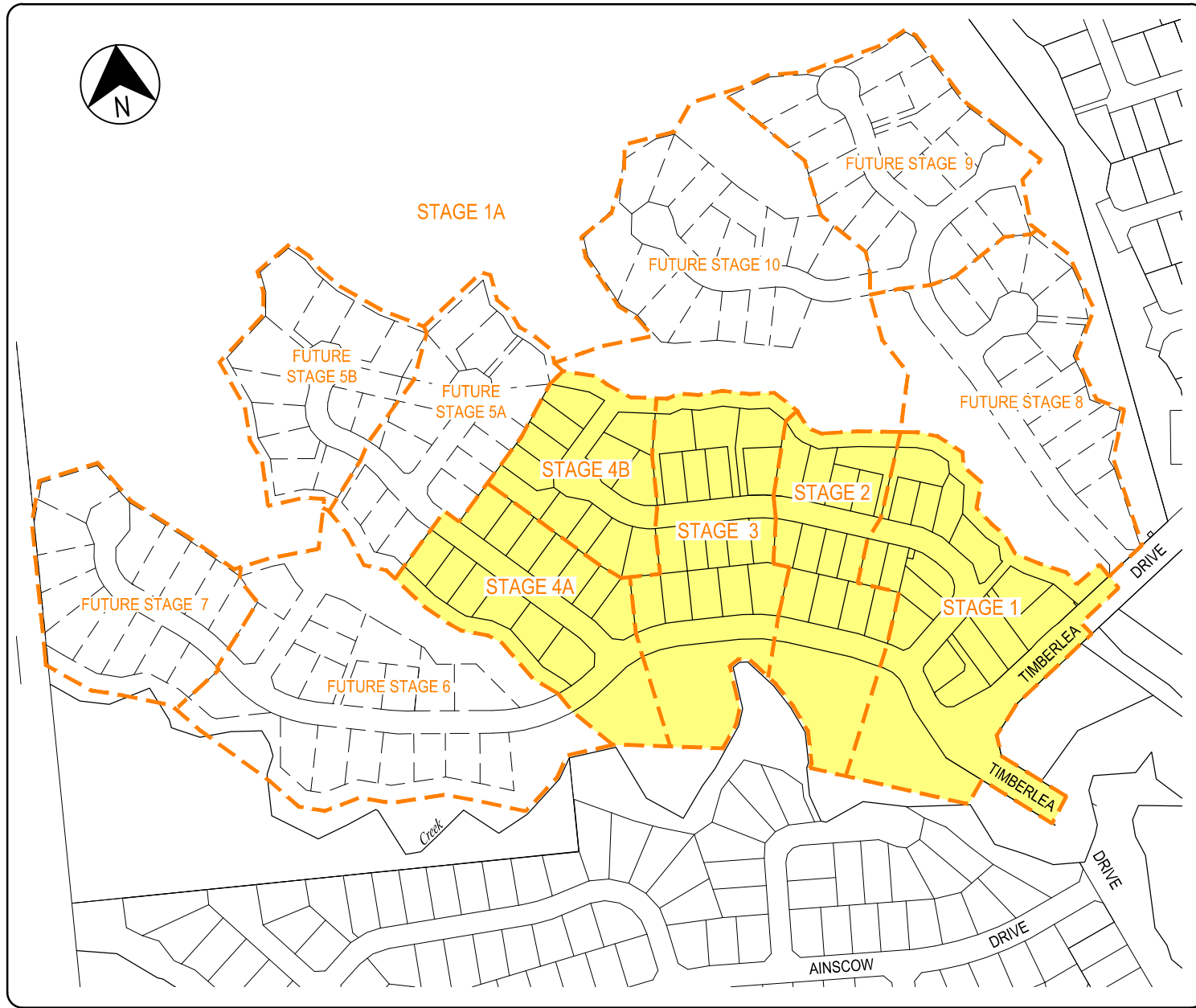
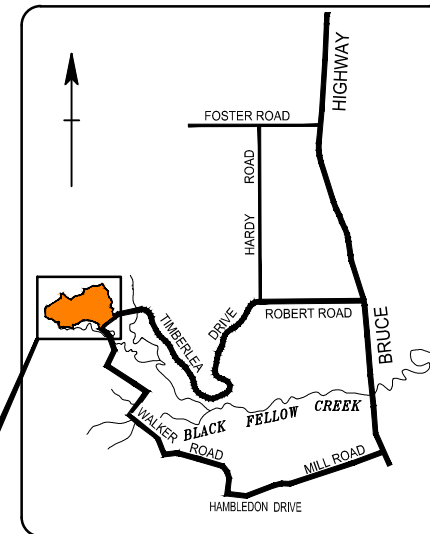


# THE OUTLOOK - STAGES 1-4



LOCALITY PLAN  
N.T.S.



LOCALITY PLAN  
N.T.S.

## DRAWING INDEX

DRAWING No.	DRAWING TITLE
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CF21311-C-01	GENERAL ARRANGEMENT - SHEET 1 OF 2
CF21311-C-02	GENERAL ARRANGEMENT - SHEET 2 OF 2
CF21311-C-03	EARTHWORKS - SHEET 1 OF 2
CF21311-C-04	EARTHWORKS - SHEET 2 OF 2
CF21311-C-05	MISCELLANEOUS SECTIONS AND DETAILS
CF21311-C-06	ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 3
CF21311-C-07	ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 3
CF21311-C-08	ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 3
CF21311-C-09	ROAD CROSS SECTIONS - SHEET 1 OF 5
CF21311-C-10	ROAD CROSS SECTIONS - SHEET 2 OF 5
CF21311-C-11	ROAD CROSS SECTIONS - SHEET 3 OF 5
CF21311-C-12	ROAD CROSS SECTIONS - SHEET 4 OF 5
CF21311-C-13	ROAD CROSS SECTIONS - SHEET 5 OF 5
CF21311-C-14	INTERSECTION DETAILS - SHEET 1 OF 3
CF21311-C-15	INTERSECTION DETAILS - SHEET 2 OF 3
CF21311-C-16	INTERSECTION DETAILS - SHEET 3 OF 3
CF21311-C-17	STORMWATER DRAINAGE - SHEET 1 OF 2
CF21311-C-18	STORMWATER DRAINAGE - SHEET 2 OF 2
CF21311-C-19	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 2
CF21311-C-20	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 2
CF21311-C-21	SEWERAGE - SHEET 1 OF 2
CF21311-C-22	SEWERAGE - SHEET 2 OF 2
CF21311-C-23	SEWERAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3
CF21311-C-24	SEWERAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3
CF21311-C-25	SEWERAGE LONGITUDINAL SECTIONS - SHEET 3 OF 3
CF21311-C-26	WATER RETICULATION - SHEET 1 OF 2
CF21311-C-27	WATER RETICULATION - SHEET 1 OF 2
CF21311-C-28	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 1 - TOPSOIL STRIPPING - SHEET 1 OF 2
CF21311-C-29	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 1 - TOPSOIL STRIPPING - SHEET 2 OF 2
CF21311-C-30	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 2 - EARTHWORKS - SHEET 1 OF 2
CF21311-C-31	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 2 - EARTHWORKS - SHEET 2 OF 2
CF21311-C-32	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 3 - ROADWORKS - SHEET 1 OF 2
CF21311-C-33	EROSION AND SEDIMENT CONTROL STRATEGY - PHASE 3 - ROADWORKS - SHEET 2 OF 2
CF21311-C-50	STAGE 1A - CASSOWARY EXCLUSION FENCE LOCATION
CF21311-C-51	STAGE 1A - CASSOWARY EXCLUSION FENCE SETOUT

## FNQROC STANDARD DRAWINGS

DRAWING No.	DRAWING TITLE
S1000 - S1110	ROADWORKS AND DRAINAGE
S2000 - S2025	WATER
S3000 - S3015	SEWERAGE

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

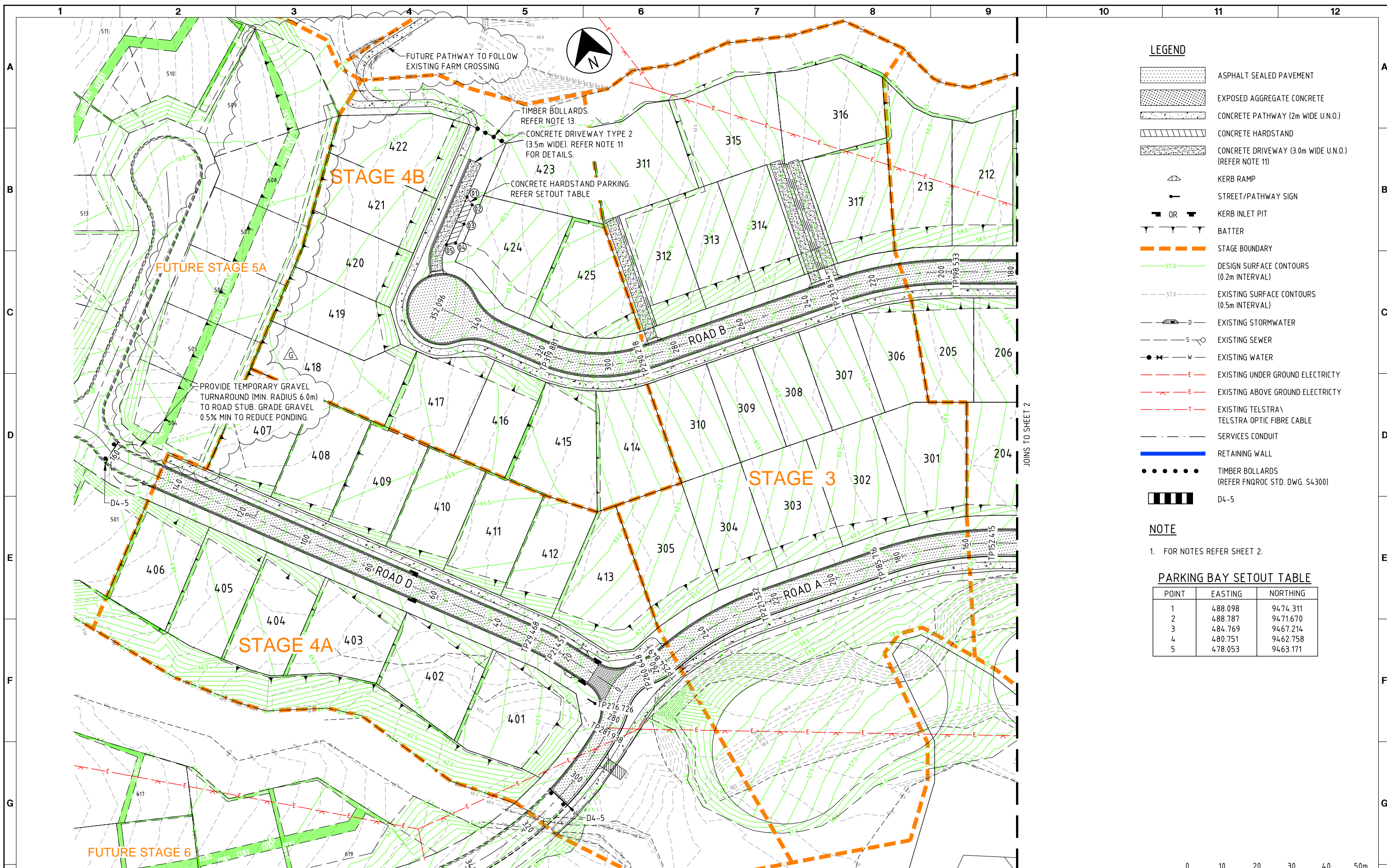


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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE LOCALITY PLAN AND DRAWING INDEX			
SCALE N.T.S.	SKM PROJECT No CF21311	DRAWING No CF21311-C-00	AMDT C



- LEGEND**
- ASPHALT SEALED PAVEMENT
  - EXPOSED AGGREGATE CONCRETE
  - CONCRETE PATHWAY (2m WIDE U.N.O.)
  - CONCRETE HARDSTAND
  - CONCRETE DRIVEWAY (3.0m WIDE U.N.O.) (REFER NOTE 11)
  - KERB RAMP
  - STREET/PATHWAY SIGN
  - KERB INLET PIT
  - BATTER
  - STAGE BOUNDARY
  - DESIGN SURFACE CONTOURS (0.2m INTERVAL)
  - EXISTING SURFACE CONTOURS (0.5m INTERVAL)
  - EXISTING STORMWATER
  - EXISTING SEWER
  - EXISTING WATER
  - EXISTING UNDER GROUND ELECTRICITY
  - EXISTING ABOVE GROUND ELECTRICITY
  - EXISTING TELSTRA\ TELSTRA OPTIC FIBRE CABLE
  - SERVICES CONDUIT
  - RETAINING WALL
  - TIMBER BOLLARDS (REFER FNQROC STD. DWG. S4300)
  - D4-5

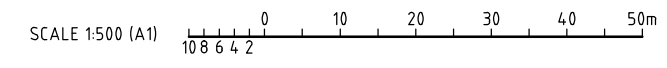
**NOTE**

1. FOR NOTES REFER SHEET 2.

**PARKING BAY SETOUT TABLE**

POINT	EASTING	NORTHING
1	488.098	9474.311
2	488.787	9471.670
3	484.769	9467.214
4	480.751	9462.758
5	478.053	9463.171

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
G	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 EARTHWORKS REVISED



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DESIGNED PAM	DESIGN REVIEW RJB	9/4/15	9/4/15

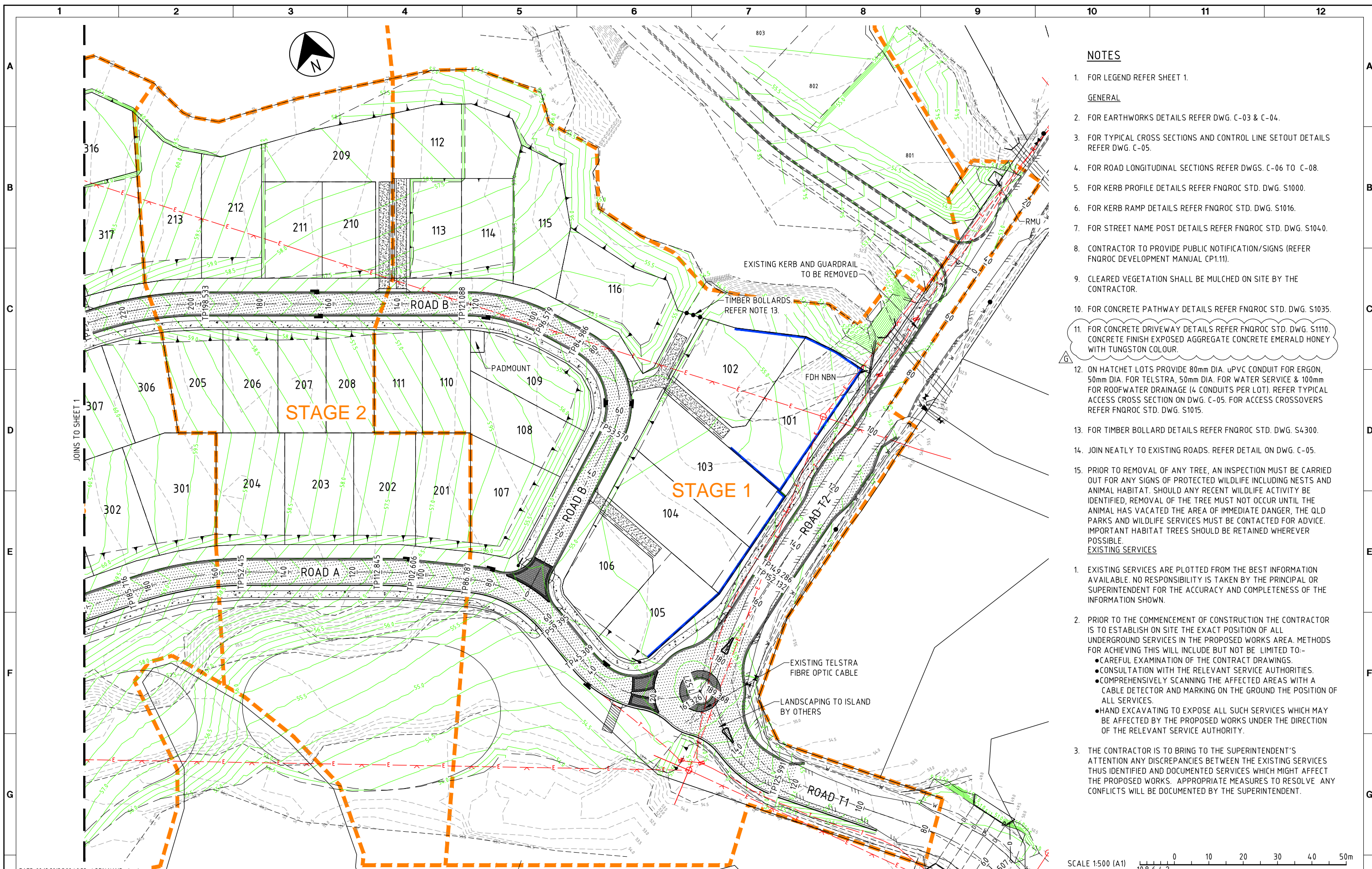
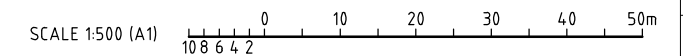
TITLE GENERAL ARRANGEMENT SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-01	AMDT G





**NOTES**

- FOR LEGEND REFER SHEET 1.
  - FOR EARTHWORKS DETAILS REFER DWG. C-03 & C-04.
  - FOR TYPICAL CROSS SECTIONS AND CONTROL LINE SETOUT DETAILS REFER DWG. C-05.
  - FOR ROAD LONGITUDINAL SECTIONS REFER DWGS. C-06 TO C-08.
  - FOR KERB PROFILE DETAILS REFER FNQROC STD. DWG. S1000.
  - FOR KERB RAMP DETAILS REFER FNQROC STD. DWG. S1016.
  - FOR STREET NAME POST DETAILS REFER FNQROC STD. DWG. S1040.
  - CONTRACTOR TO PROVIDE PUBLIC NOTIFICATION/SIGNS (REFER FNQROC DEVELOPMENT MANUAL CP1.11).
  - CLEARED VEGETATION SHALL BE MULCHED ON SITE BY THE CONTRACTOR.
  - FOR CONCRETE PATHWAY DETAILS REFER FNQROC STD. DWG. S1035.
  - FOR CONCRETE DRIVEWAY DETAILS REFER FNQROC STD. DWG. S1110. CONCRETE FINISH EXPOSED AGGREGATE CONCRETE EMERALD HONEY WITH TUNGSTON COLOUR.
  - ON HATCHET LOTS PROVIDE 80mm DIA. uPVC CONDUIT FOR ERGON, 50mm DIA. FOR TELSTRA, 50mm DIA. FOR WATER SERVICE & 100mm FOR ROOFWATER DRAINAGE (4 CONDUITS PER LOT). REFER TYPICAL ACCESS CROSS SECTION ON DWG. C-05. FOR ACCESS CROSSOVERS REFER FNQROC STD. DWG. S1015.
  - FOR TIMBER BOLLARD DETAILS REFER FNQROC STD. DWG. S4300.
  - JOIN NEATLY TO EXISTING ROADS. REFER DETAIL ON DWG. C-05.
  - PRIOR TO REMOVAL OF ANY TREE, AN INSPECTION MUST BE CARRIED OUT FOR ANY SIGNS OF PROTECTED WILDLIFE INCLUDING NESTS AND ANIMAL HABITAT. SHOULD ANY RECENT WILDLIFE ACTIVITY BE IDENTIFIED, REMOVAL OF THE TREE MUST NOT OCCUR UNTIL THE ANIMAL HAS VACATED THE AREA OF IMMEDIATE DANGER, THE QLD PARKS AND WILDLIFE SERVICES MUST BE CONTACTED FOR ADVICE. IMPORTANT HABITAT TREES SHOULD BE RETAINED WHEREVER POSSIBLE.
- EXISTING SERVICES**
- EXISTING SERVICES ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE. NO RESPONSIBILITY IS TAKEN BY THE PRINCIPAL OR SUPERINTENDENT FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN.
  - PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO:
    - CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS.
    - CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES.
    - COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.
    - HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.
  - THE CONTRACTOR IS TO BRING TO THE SUPERINTENDENT'S ATTENTION ANY DISCREPANCIES BETWEEN THE EXISTING SERVICES THUS IDENTIFIED AND DOCUMENTED SERVICES WHICH MIGHT AFFECT THE PROPOSED WORKS. APPROPRIATE MEASURES TO RESOLVE ANY CONFLICTS WILL BE DOCUMENTED BY THE SUPERINTENDENT.



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	NOTE REVISD	AMENDMENT
G	13.05.15	PAM	RJC	RJC	DAH		



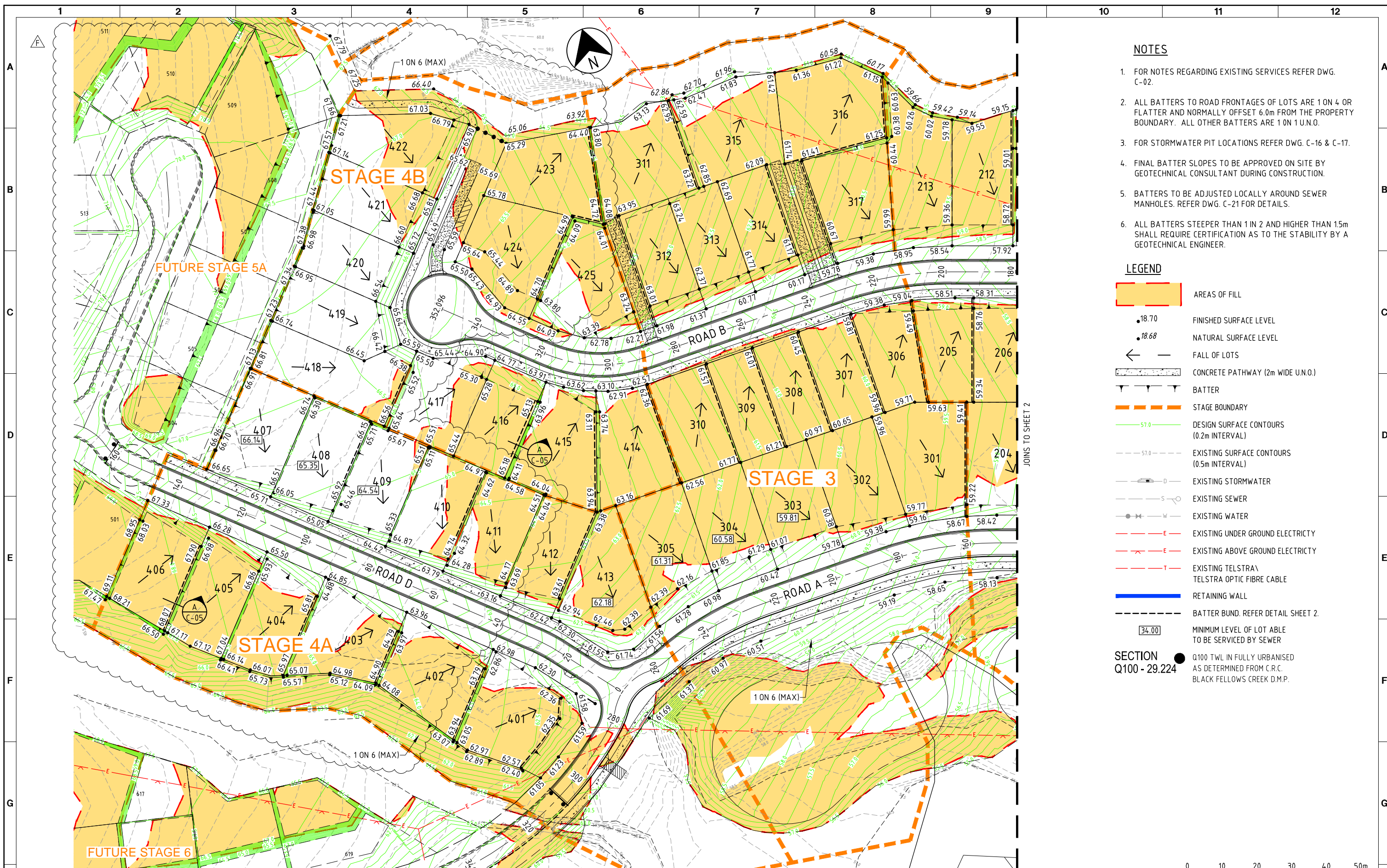
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DESIGNED PAM	DESIGN REVIEW RJB	9.8.15	9.8.15

TITLE GENERAL ARRANGEMENT SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-02	AMDT G





**NOTES**

- FOR NOTES REGARDING EXISTING SERVICES REFER DWG. C-02.
- ALL BATTERS TO ROAD FRONTAGES OF LOTS ARE 1 ON 4 OR FLATTER AND NORMALLY OFFSET 6.0m FROM THE PROPERTY BOUNDARY. ALL OTHER BATTERS ARE 1 ON 1 U.N.O.
- FOR STORMWATER PIT LOCATIONS REFER DWG. C-16 & C-17.
- FINAL BATTER SLOPES TO BE APPROVED ON SITE BY GEOTECHNICAL CONSULTANT DURING CONSTRUCTION.
- BATTERS TO BE ADJUSTED LOCALLY AROUND SEWER MANHOLES. REFER DWG. C-21 FOR DETAILS.
- ALL BATTERS STEEPER THAN 1 IN 2 AND HIGHER THAN 1.5m SHALL REQUIRE CERTIFICATION AS TO THE STABILITY BY A GEOTECHNICAL ENGINEER.

**LEGEND**

- AREAS OF FILL
- 18.70 FINISHED SURFACE LEVEL
- 18.68 NATURAL SURFACE LEVEL
- FALL OF LOTS
- CONCRETE PATHWAY (2m WIDE U.N.O.)
- BATTER
- STAGE BOUNDARY
- 57.0 DESIGN SURFACE CONTOURS (0.2m INTERVAL)
- 57.0 EXISTING SURFACE CONTOURS (0.5m INTERVAL)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING UNDER GROUND ELECTRICITY
- EXISTING ABOVE GROUND ELECTRICITY
- EXISTING TELSTRA / TELSTRA OPTIC FIBRE CABLE
- RETAINING WALL
- BATTER BUND. REFER DETAIL SHEET 2.
- 34.00 MINIMUM LEVEL OF LOT ABLE TO BE SERVICED BY SEWER
- Q100 TWL IN FULLY URBANISED AS DETERMINED FROM C.R.C. BLACK FELLOWS CREEK D.M.P.

SCALE 1:500 (A1) 0 10 20 30 40 50m

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F	08.12.15	PAM	RJC	RJC	CJC	STAGE 4 EARTHWORKS REVISED
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
C	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
B	21.05.10	PAM	RJB	RJC	DAH	PATHWAY REVISED
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



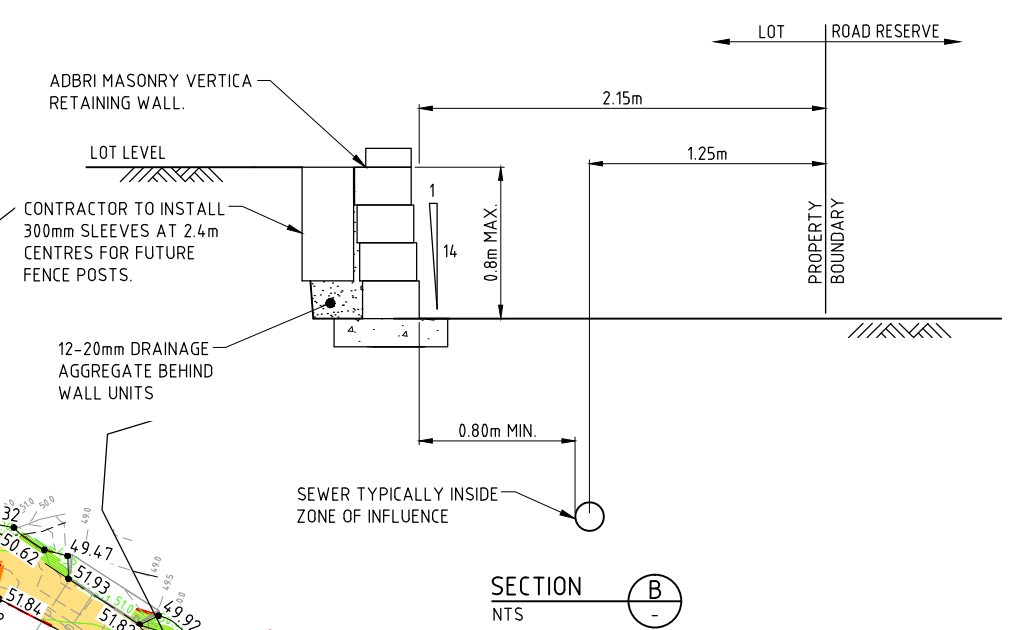
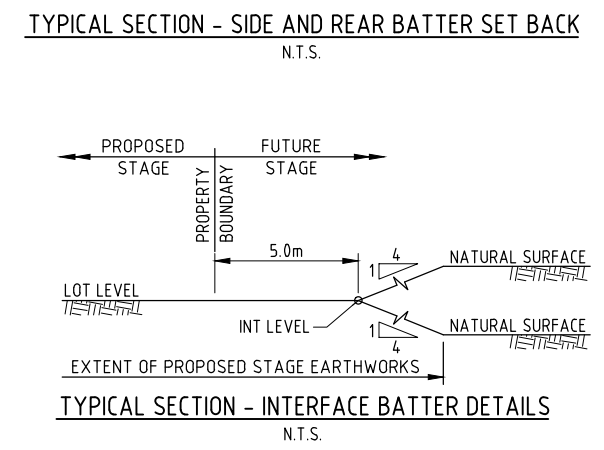
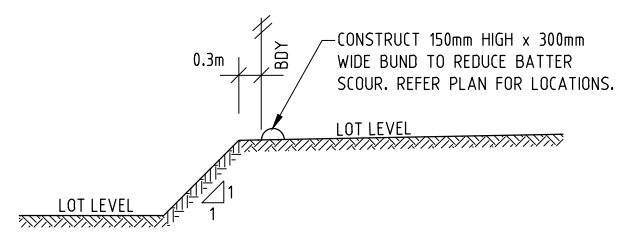
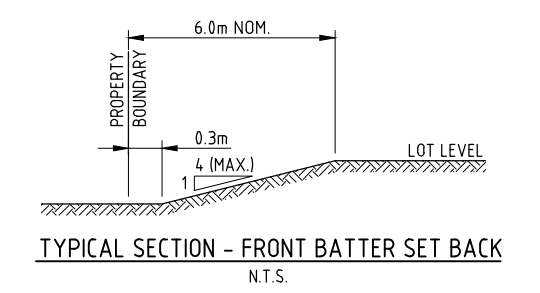
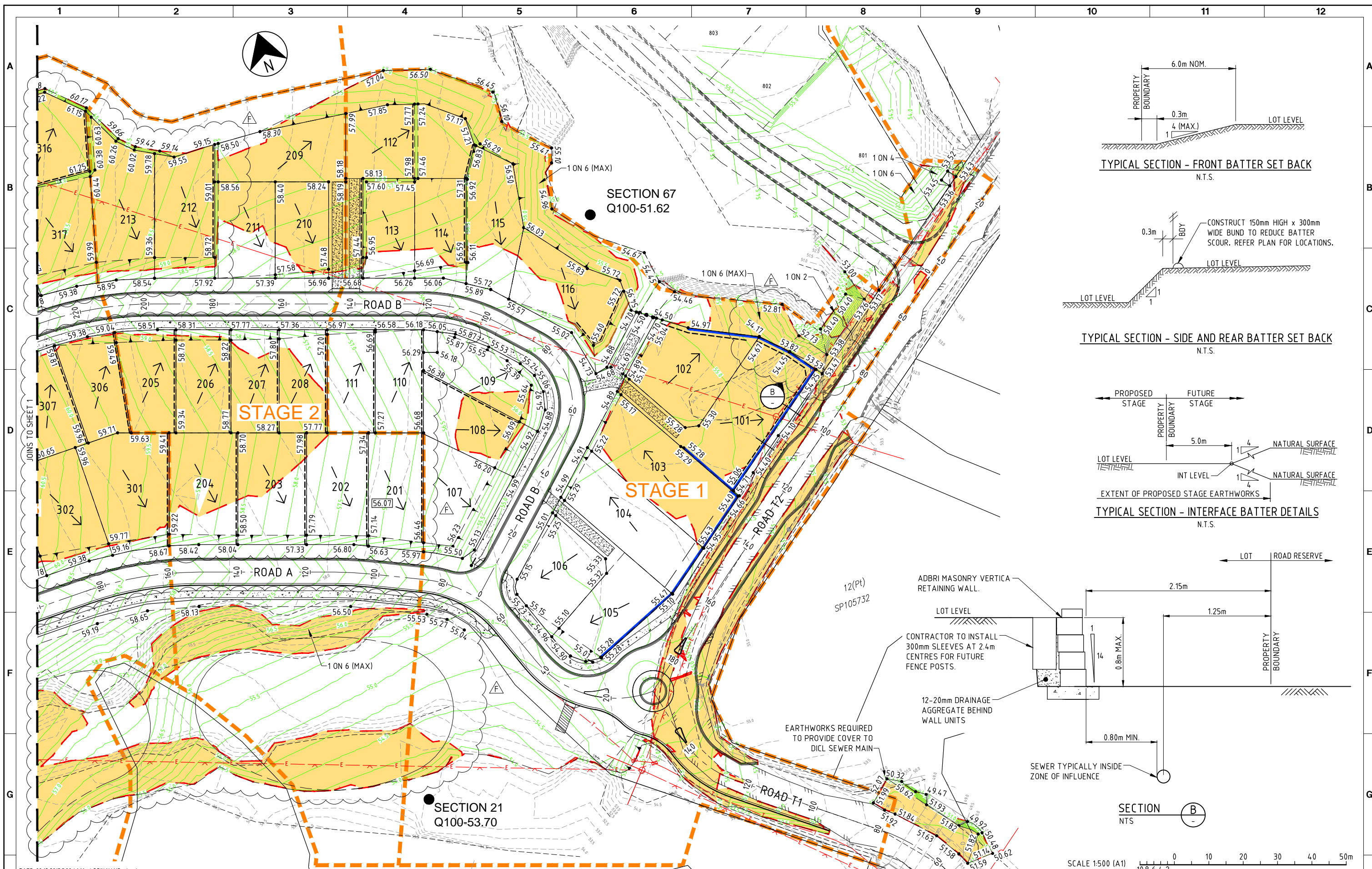
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DESIGNED PAM	DESIGN REVIEW RJB	9/4/10	9/4/10

TITLE EARTHWORKS SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-03	AMDT F





SCALE 1:500 (A1)  
10 8 6 4 2

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F	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
E	06.06.14	RJB	RJC	RJC	DAH	ROUNDBOUT AND LOTS 104-106 REVISED
D	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
C	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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PROJECT THE OUTLOOK STAGES 1-4			
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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE EARTHWORKS SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-04	AMDT F



**CONTROL LINE ROAD A SETOUT**

CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
7.527	714.550	9255.943	267° 16' 3"	30.000		
IP 26.418	692.715	9254.901	-	30.000	21.860	37.782
45.309	685.033	9275.366	339° 25' 34"	STRAIGHT		
59.395	680.083	9288.554	339° 25' 34"	-35.000		
IP 73.091	675.008	9302.074	-	-35.000	14.441	27.392
86.787	661.877	9308.082	294° 35' 7"	STRAIGHT		
102.606	647.491	9314.663	294° 35' 7"	-100.000		
IP 107.726	642.832	9316.795	-	-100.000	5.124	10.239
112.845	637.979	9318.440	288° 43' 8"	STRAIGHT		
152.415	600.503	9331.138	288° 43' 8"	-100.000		
IP 169.066	584.585	9336.532	-	-100.000	16.807	33.302
185.716	567.779	9336.426	269° 38' 18"	STRAIGHT		
221.532	531.964	9336.200	269° 38' 18"	-85.000		
IP 238.191	515.089	9336.093	-	-85.000	16.876	33.318
254.849	499.535	9329.548	247° 10' 48"	15.000		
IP 257.749	496.829	9328.410	-	15.000	2.936	5.799
260.648	493.893	9328.375	269° 19' 43"	-15.000		
IP 268.687	484.985	9328.271	-	-15.000	8.909	16.078
276.726	480.814	9320.399	207° 54' 52"	15.000		
IP 279.332	479.582	9318.073	-	15.000	2.632	5.211
281.938	477.631	9316.305	227° 49' 14"	100.000		
IP 323.527	444.902	9286.650	-	100.000	44.166	83.179
365.116	400.939	9290.867	275° 28' 42"	STRAIGHT		
421.940	344.375	9296.291	275° 28' 42"	100.000		
IP 427.732	338.602	9296.845	-	100.000	5.799	11.586
433.525	332.932	9298.062	282° 6' 59"	STRAIGHT		
482.570	284.980	9308.357	282° 6' 59"	80.000		
IP 498.017	269.686	9311.640	-	80.000	15.642	30.894
513.463	256.756	9320.441	304° 14' 32"	15.000		
IP 517.582	253.263	9322.819	-	15.000	4.225	8.237
521.700	251.525	9326.670	335° 42' 15"	-15.000		
IP 527.386	249.066	9332.115	-	-15.000	5.975	11.372
533.072	243.537	9334.379	292° 15' 57"	15.000		
IP 536.968	239.848	9335.890	-	15.000	3.986	7.792
540.864	237.396	9339.032	322° 1' 39"	STRAIGHT		
560.633	225.232	9354.616	322° 1' 39"	-100.000		
IP 574.898	216.395	9365.938	-	-100.000	14.363	28.530
589.163	204.729	9374.315	305° 40' 52"	STRAIGHT		
631.963	169.964	9399.279	305° 40' 52"	30.000		
IP 649.970	153.283	9411.257	-	30.000	20.535	36.015
667.978	158.413	9431.141	14° 27' 54"	STRAIGHT		
684.345	162.501	9446.990	14° 27' 54"	STRAIGHT		

**CONTROL LINE ROAD T1 SETOUT**

CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	802.544	9126.587	335° 40' 30"	STRAIGHT		
IP 55.507	779.680	9177.166	335° 40' 30"	-50.000		
IP 67.761	774.529	9188.561	-	-50.000	12.505	24.507
80.014	764.620	9196.190	307° 35' 30"	STRAIGHT		
125.042	728.941	9223.658	307° 35' 30"	30.000		
IP 135.418	720.375	9230.252	-	30.000	10.810	20.751
145.793	717.985	9240.795	347° 13' 25"	STRAIGHT		
161.326	714.550	9255.943	347° 13' 25"	STRAIGHT		

**CONTROL LINE ROAD T2 SETOUT**

CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	864.861	9371.105	232° 52' 30"	STRAIGHT		
IP 149.286	745.832	9281.003	232° 52' 30"	-100.000		
IP 150.709	744.697	9280.143	-	-100.000	1.423	2.846
152.132	743.587	9279.253	231° 14' 39"	STRAIGHT		
189.368	714.550	9255.943	231° 14' 39"	STRAIGHT		

**TABLE OF WIDTHS**

ROAD	CARRIAGEWAY WIDTH (m)	VERGE WIDTH (m)		RESERVE WIDTH (m)
		LHS	RHS	
ROAD A (CH 0-280)	7.50	4.25	4.25	16
ROAD A (CH 280-307)	6.50	4.00	4.50	15
ROAD B	6.50	4.25	4.25	15
ROAD D (CH 0-147)	6.50	4.25	4.25	15
ROAD T1	10.00	5.00	5.00	20
ROAD T2	10.00	5.00	5.00	20

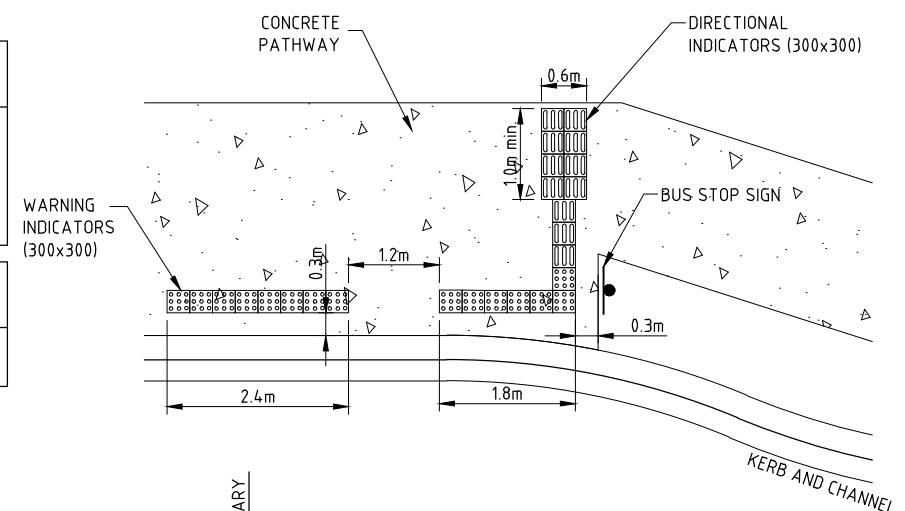
**PROVISIONAL PAVEMENT DETAILS**

ROAD	SURFACING	SUBBASE CBR 45 (mm)	BASE CBR 60 (mm)
ROAD A (CH 0-280)	30mm ASPHALT	125	125
ROAD A (CH 280-307)	30mm ASPHALT	100	100
ROAD B	30mm ASPHALT	100	100
ROAD D	30mm ASPHALT	100	100

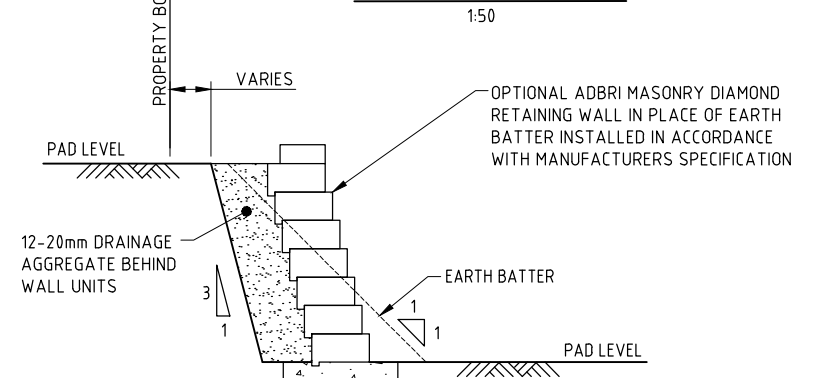
ROAD	SURFACING	SUBBASE CBR 60 (mm)	BASE CBR 80 (mm)
ROAD T1	30mm ASPHALT	125	125
ROAD T2	30mm ASPHALT	125	125

**NOTES**  
PROVISIONAL PAVEMENT DESIGN IS BASED ON AN ASSUMED SUBGRADE SOAKED CBR OF 10. THE CONTRACTOR IS TO CONFIRM SUBGRADE CBR DURING CONSTRUCTION AND THE PAVEMENT DESIGN MAY BE AMENDED ACCORDINGLY BY THE CAIRNS CITY COUNCIL.

ASPHALT SURFACING TO BE INCREASED TO 50mm AT INTERSECTIONS. REFER DWG. C-14 & C-15 FOR LOCATIONS.



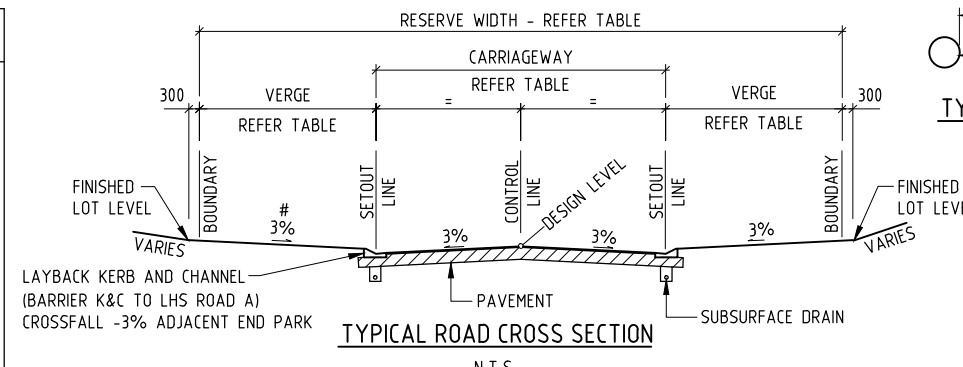
**TACTILE PAVING DETAIL**



**NOTE**  
1. FOR FURTHER RETAINING WALL DETAILS REFER TO ADBRI MASONRY TECHNICAL SPECIFICATIONS.

**CONTROL LINE ROAD B SETOUT**

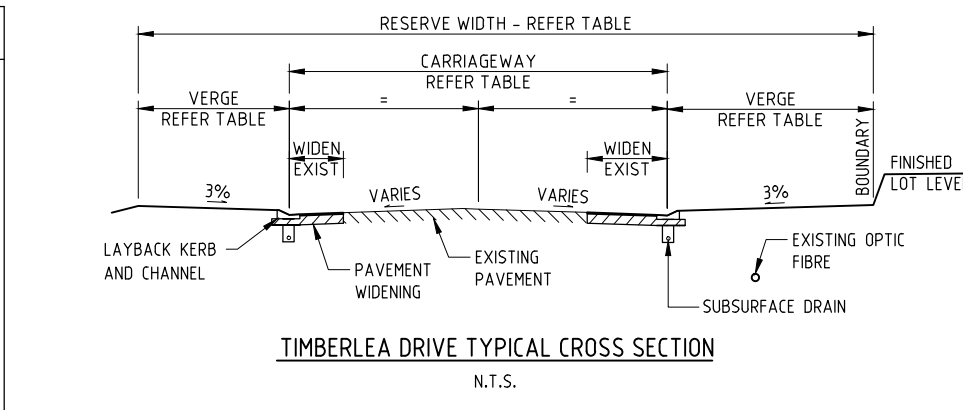
CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	674.862	9297.845	46° 48' 17"	STRAIGHT		
53.570	713.916	9334.513	46° 48' 17"	-20.000		
IP 69.278	728.497	9348.203	-	-20.000	20.000	31.416
84.986	714.807	9362.784	316° 48' 17"	STRAIGHT		
96.579	706.872	9371.235	316° 48' 17"	-50.000		
IP 108.833	698.312	9380.352	-	-50.000	12.506	24.509
121.088	686.467	9384.366	288° 43' 8"	STRAIGHT		
198.533	613.119	9409.220	288° 43' 8"	-100.000		
IP 215.184	597.202	9414.613	-	-100.000	16.807	33.302
231.834	580.396	9414.507	269° 38' 18"	STRAIGHT		
290.278	521.954	9414.138	269° 38' 18"	40.000		
IP 305.079	506.437	9414.040	-	40.000	15.516	29.603
319.881	494.914	9424.431	312° 2' 31"	STRAIGHT		
352.096	470.990	9446.005	312° 2' 31"	STRAIGHT		



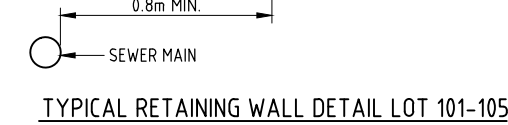
**TYPICAL ROAD CROSS SECTION**

**CONTROL LINE ROAD D SETOUT**

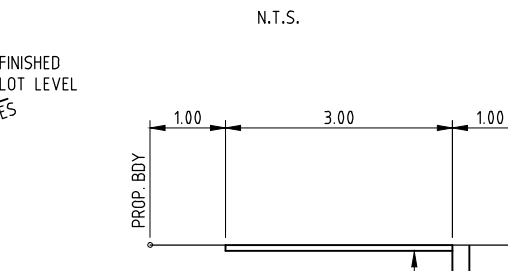
CHAINAGE	COORDINATES		BEARING DEG MIN SEC	RADIUS OF CURVATURE	TANGENT LENGTH	ARC LENGTH
	EASTING	NORTHING				
0.000	484.676	9325.071	321° 13' 47"	STRAIGHT		
21.451	471.243	9341.796	321° 13' 47"	-50.000		
IP 25.460	468.727	9344.928	-	-50.000	4.017	8.018
29.468	465.744	9347.618	312° 2' 31"	STRAIGHT		
156.923	371.089	9432.972	312° 2' 31"	15.000		
IP 161.085	367.917	9435.832	-	15.000	4.271	8.322
165.246	366.728	9439.935	343° 49' 49"	-15.000		
IP 171.212	364.972	9445.988	-	-15.000	6.303	11.934
177.179	359.420	9448.971	298° 14' 50"	15.000		
IP 181.336	355.661	9450.990	-	15.000	4.267	8.314
185.493	353.528	9454.686	330° 0' 14"	-80.000		
IP 210.201	340.767	9476.792	-	-80.000	25.525	49.416
234.909	317.562	9487.422	294° 36' 45"	20.000		
IP 249.555	301.215	9494.911	-	20.000	17.981	29.292
264.201	306.928	9511.960	18° 31' 37"	STRAIGHT		
290.045	315.140	9536.465	18° 31' 37"	STRAIGHT		



**TIMBERLEA DRIVE TYPICAL CROSS SECTION**

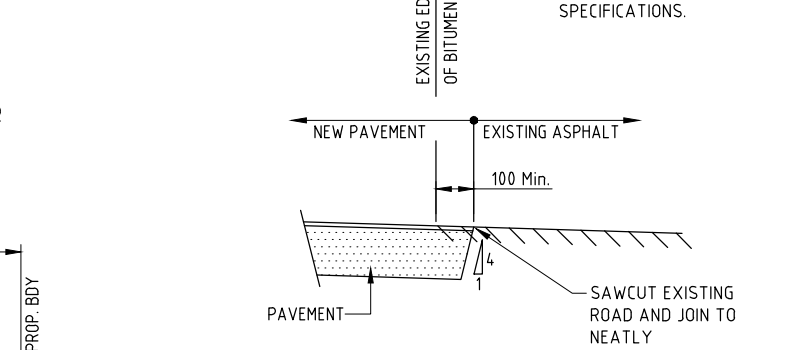


**TYPICAL RETAINING WALL DETAIL LOT 101-105**

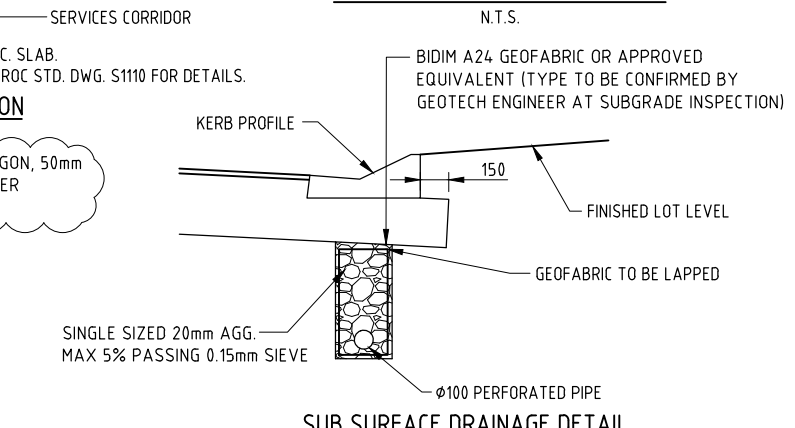


**TYPICAL ACCESS CROSS SECTION**

**NOTE:** PROVIDE 80mm DIA. uPVC CONDUIT FOR ERGON, 50mm DIA. FOR TELSTRA & 630D PE100 PN16. FOR WATER SERVICE (3 CONDUITS PER LOT).



**TYPICAL JOIN TO EXISTING ROAD**



**SUB SURFACE DRAINAGE DETAIL**

DATE: 08.12.2015@08:41:28 LOGIN NAME: sbs1  
XREF: X-CF21311-TITLEBLOCK; X-CF21311-DESIGN  
LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-05.dwg

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	NOTE AMENDED	AMENDMENT
G	08.12.15	PAM	RJC	RJC	DAH		



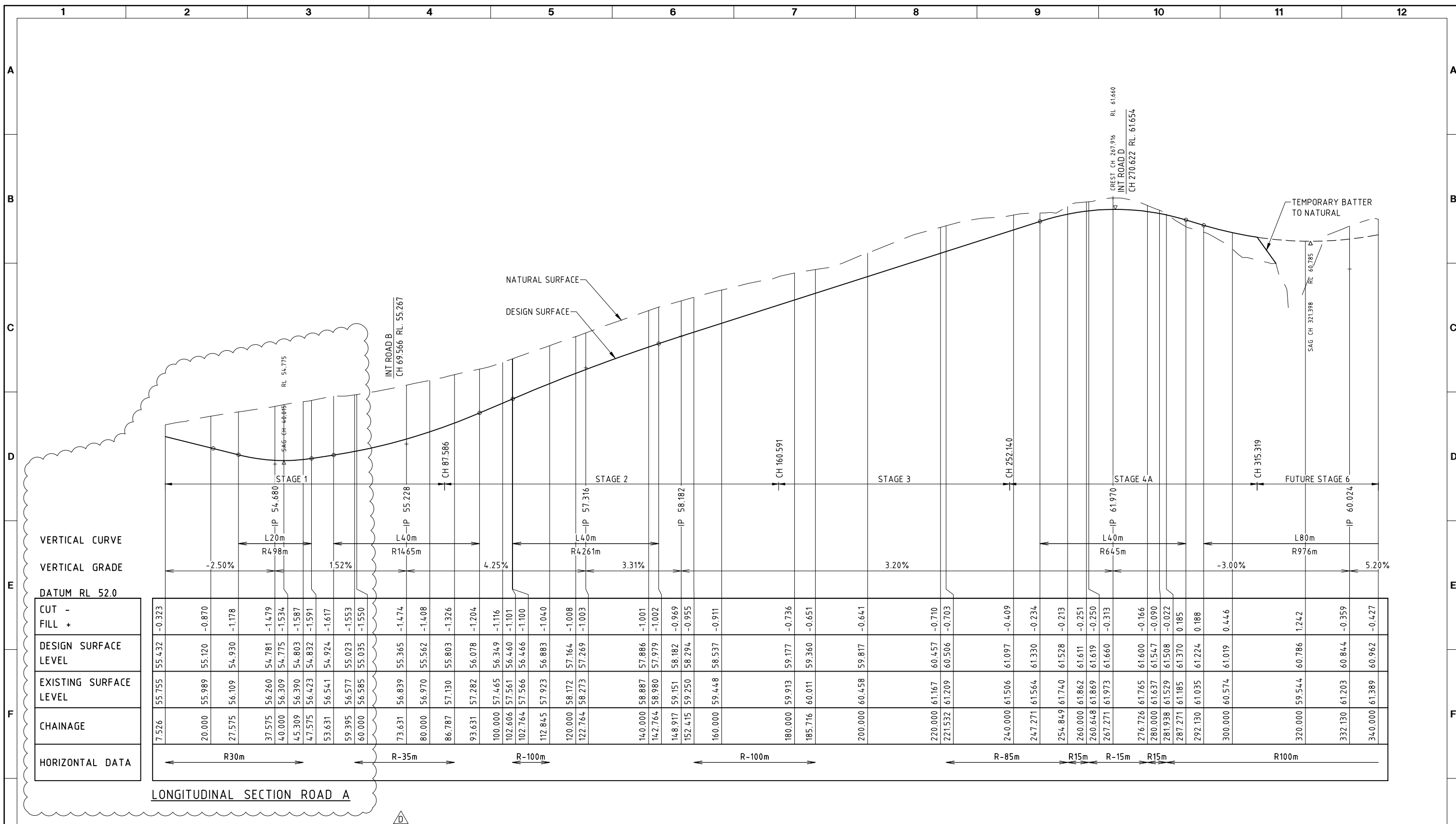
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DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.8.18	9.8.18

TITLE MISCELLANEOUS SECTIONS AND DETAILS			
SCALE AS SHOWN	SKM PROJECT No CF21311	DRAWING No CF21311-C-05	AMDT G



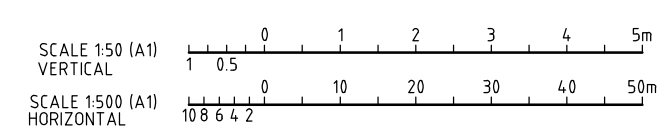


VERTICAL CURVE  
VERTICAL GRADE  
DATUM RL 52.0

CUT -	
FILL +	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	
HORIZONTAL DATA	

7.526	20.000	27.575	37.575	40.000	45.309	47.575	53.631	59.395	60.000	73.631	80.000	86.787	93.631	100.000	102.606	102.764	112.845	120.000	122.764	140.000	142.764	148.917	152.415	160.000	180.000	185.716	200.000	220.000	221.532	240.000	247.271	254.849	260.000	260.648	267.271	276.726	280.000	281.938	287.271	292.130	300.000	320.000	332.130	340.000
-0.323	-0.870	-1.178	-1.479	-1.534	-1.587	-1.591	-1.617	-1.553	-1.550	-1.474	-1.408	-1.326	-1.204	-1.116	-1.101	-1.100	-1.040	-1.008	-1.003	-1.001	-1.002	-0.969	-0.955	-0.911	-0.736	-0.651	-0.641	-0.710	-0.703	-0.409	-0.234	-0.213	-0.251	-0.250	-0.313	-0.166	-0.090	-0.022	0.185	0.188	0.446	1.242	-0.359	-0.427
55.432	55.120	54.930	54.781	54.775	54.803	54.832	54.924	55.023	55.035	55.365	55.562	55.803	56.078	56.349	56.460	56.466	56.883	57.164	57.269	57.886	57.979	58.182	58.294	58.537	59.177	59.360	59.817	60.457	60.506	61.097	61.330	61.528	61.611	61.619	61.660	61.600	61.547	61.508	61.370	61.224	61.019	60.786	60.844	60.962
55.755	55.989	56.109	56.260	56.309	56.390	56.423	56.541	56.577	56.585	56.839	56.970	57.130	57.282	57.465	57.561	57.566	57.923	58.172	58.273	58.887	58.980	59.151	59.250	59.448	59.913	60.011	60.458	61.167	61.209	61.506	61.564	61.740	61.862	61.869	61.973	61.765	61.637	61.529	61.185	61.035	60.574	59.544	61.203	61.389
7.526	20.000	27.575	37.575	40.000	45.309	47.575	53.631	59.395	60.000	73.631	80.000	86.787	93.631	100.000	102.606	102.764	112.845	120.000	122.764	140.000	142.764	148.917	152.415	160.000	180.000	185.716	200.000	220.000	221.532	240.000	247.271	254.849	260.000	260.648	267.271	276.726	280.000	281.938	287.271	292.130	300.000	320.000	332.130	340.000
R30m			R-35m			R-100m			R-100m			R-85m			R15m		R-15m		R15m		R100m																							

LONGITUDINAL SECTION ROAD A



DATE: 08.12.2015@08:41:37 LOGIN NAME: sbest  
 XREF: X-CF21311-TITLEBLOCK  
 LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-06-08.dwg

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDBOAT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



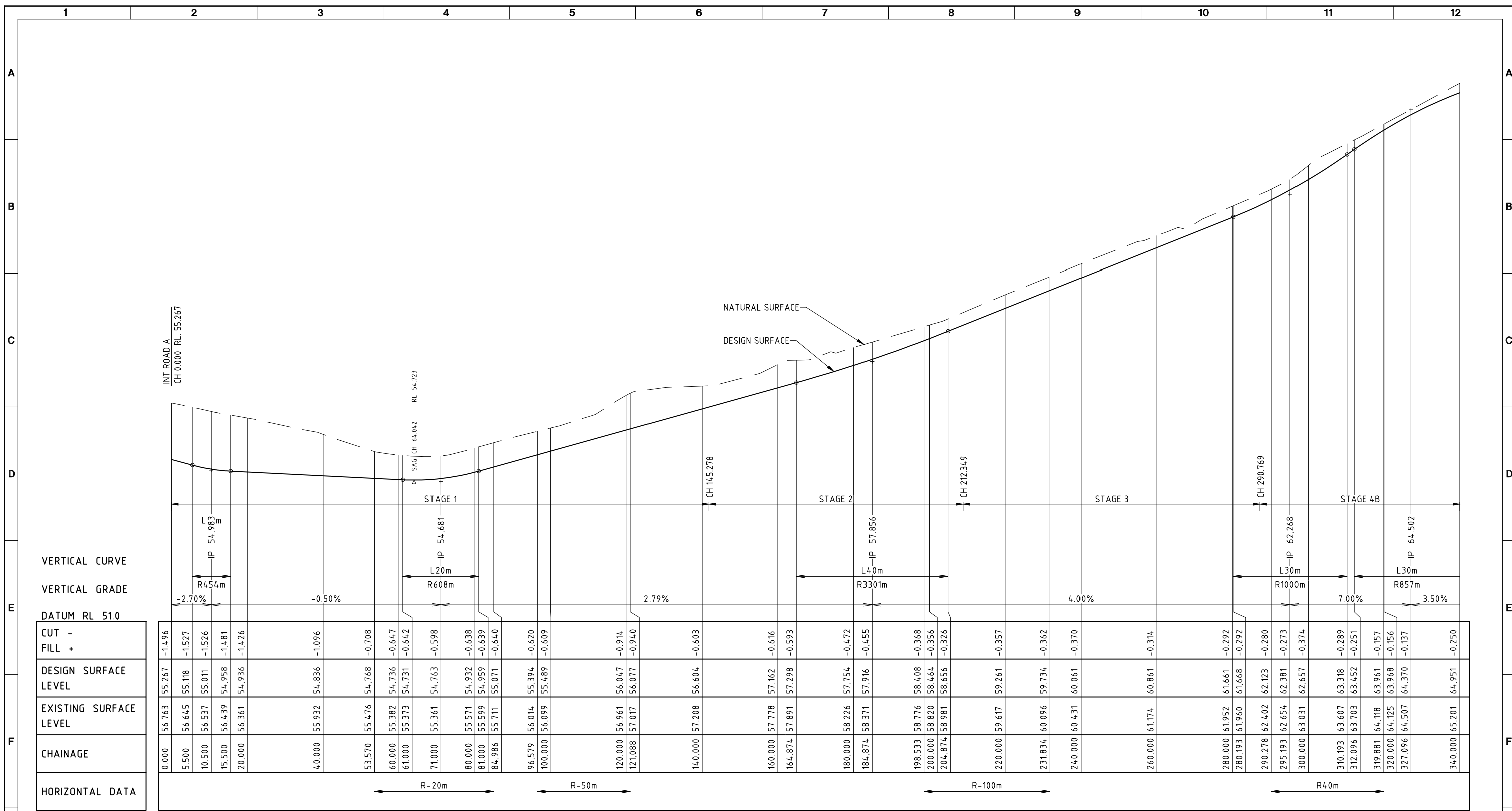
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DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.9.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.9.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE ROAD LONGITUDINAL SECTIONS SHEET 1 OF 3			
SCALE 1:500H;1:50V(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-06	AMDT D



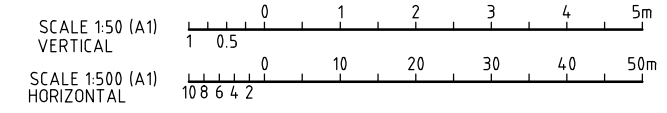


VERTICAL CURVE  
VERTICAL GRADE  
DATUM RL 51.0

CUT -	
FILL +	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	
HORIZONTAL DATA	

55.267	-1.496	56.763	55.267	55.118	-1.527	56.645	55.011	-1.526	56.537	54.958	-1.481	56.439	54.936	-1.426	56.361	54.836	-1.096	55.932	54.768	-0.708	55.476	54.736	-0.647	55.382	54.731	-0.642	55.373	54.763	-0.598	55.361	54.932	-0.638	55.571	54.959	-0.639	55.599	55.071	-0.640	55.711	55.394	-0.620	56.014	55.489	-0.609	56.099	56.047	-0.914	56.961	56.077	-0.940	57.017	56.604	-0.603	57.208	57.162	-0.616	57.778	57.298	-0.593	57.891	57.754	-0.472	58.226	57.916	-0.455	58.371	58.408	-0.368	58.776	58.464	-0.356	58.820	58.656	-0.326	58.981	59.261	-0.357	59.617	59.734	-0.362	60.096	60.061	-0.370	60.431	60.861	-0.314	61.174	61.661	-0.292	61.952	61.668	-0.292	61.960	62.123	-0.280	62.402	62.381	-0.273	62.654	62.657	-0.374	63.031	63.318	-0.289	63.607	63.452	-0.251	63.703	63.961	-0.157	64.118	63.968	-0.156	64.125	64.370	-0.137	64.507	64.951	-0.250	65.201
0.000	5.500	10.500	15.500	20.000	40.000	53.570	60.000	61.000	71.000	80.000	81.000	84.986	96.579	100.000	120.000	121.088	140.000	160.000	164.874	180.000	184.874	198.533	200.000	204.874	220.000	231.834	240.000	260.000	280.000	280.193	290.278	295.193	300.000	310.193	312.096	319.881	320.000	327.096	340.000																																																																																	

LONGITUDINAL SECTION ROAD B



DATE: 08.12.2015@08:41:41 LOGIN NAME: sbest  
XREF: X-CF21311-TITLEBLOCK  
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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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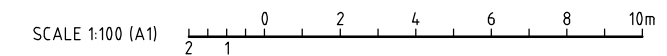
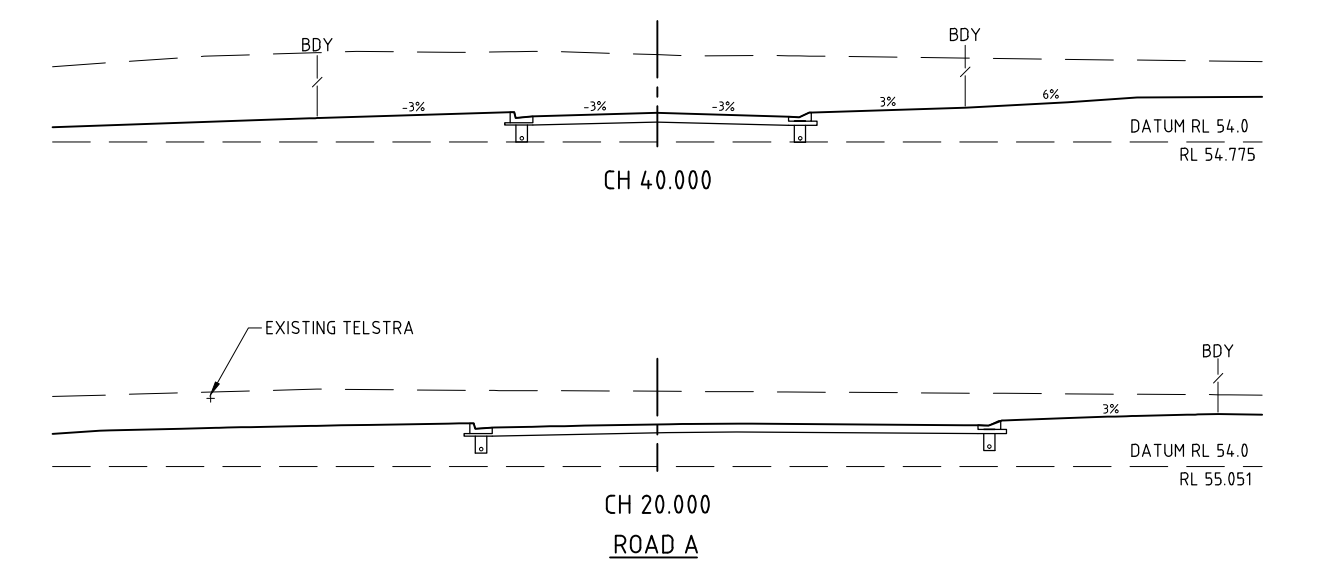
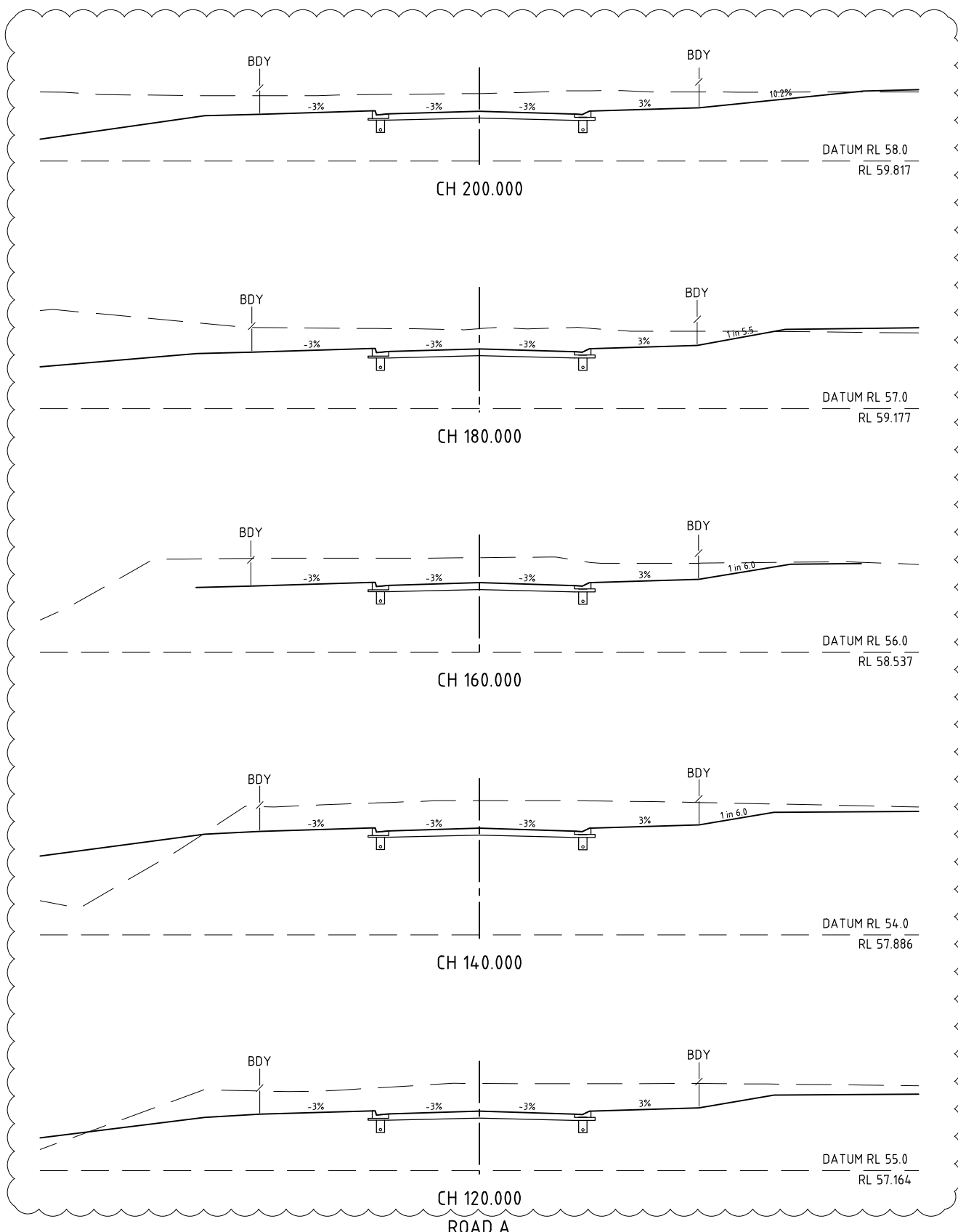
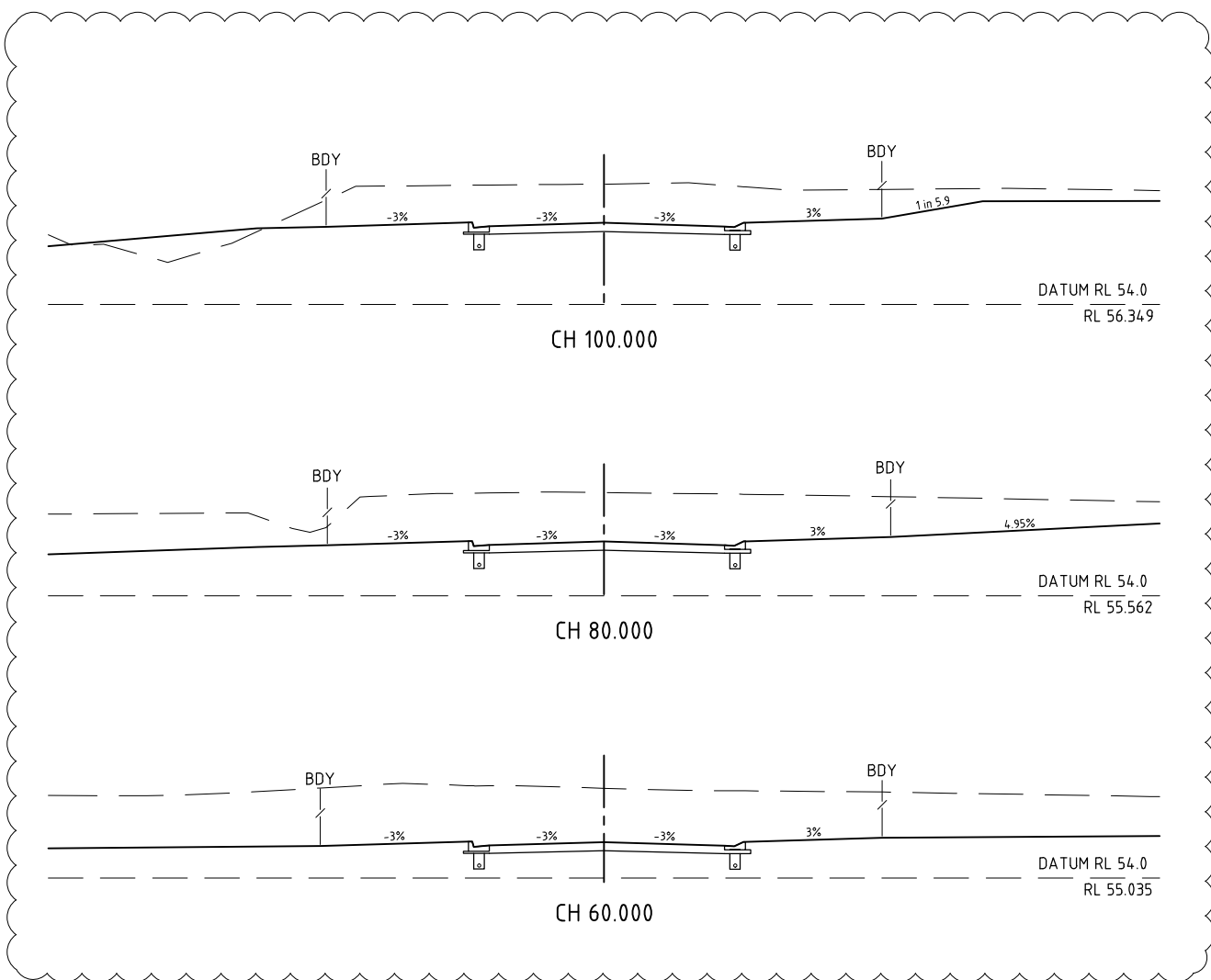
CLIENT WESTERLY PROJECTS PTY LTD			
PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE ROAD LONGITUDINAL SECTIONS SHEET 2 OF 3			
SCALE 1:500H;1:50V(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-07	AMDT C









DATE: 08.12.2015@08:41:54 LOGIN NAME: sbest  
 XREF: X-CF21311-TITLEBLOCK  
 LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-09-13.dwg

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

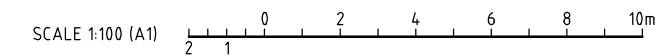
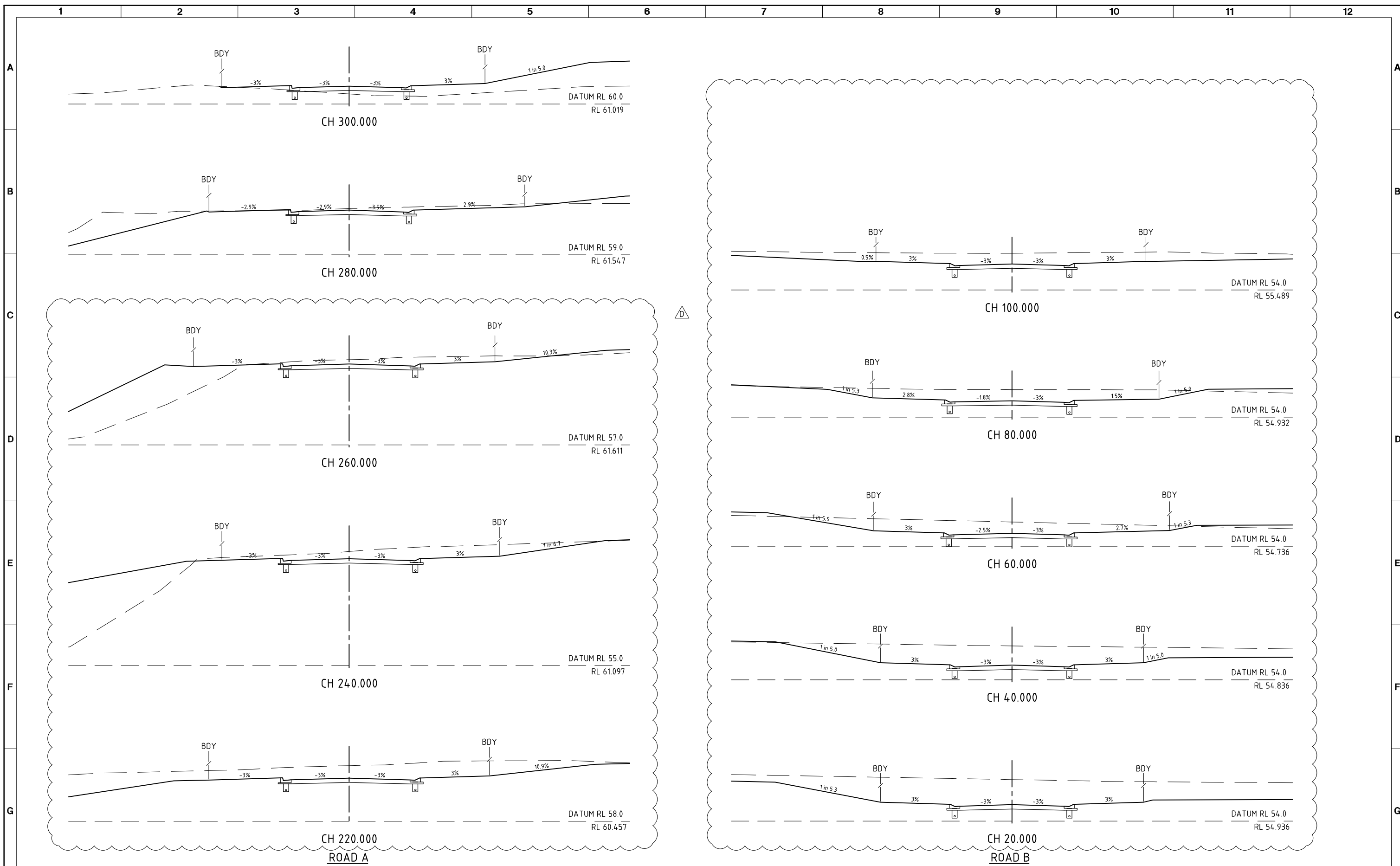


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DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE ROAD CROSS SECTIONS SHEET 1 OF 5			
SCALE 1:100(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-09	AMDT E



DATE: 08.12.2015@08:41:58 LOGIN NAME: sbest  
 XREF: X-CF21311-TITLEBLOCK  
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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
D	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



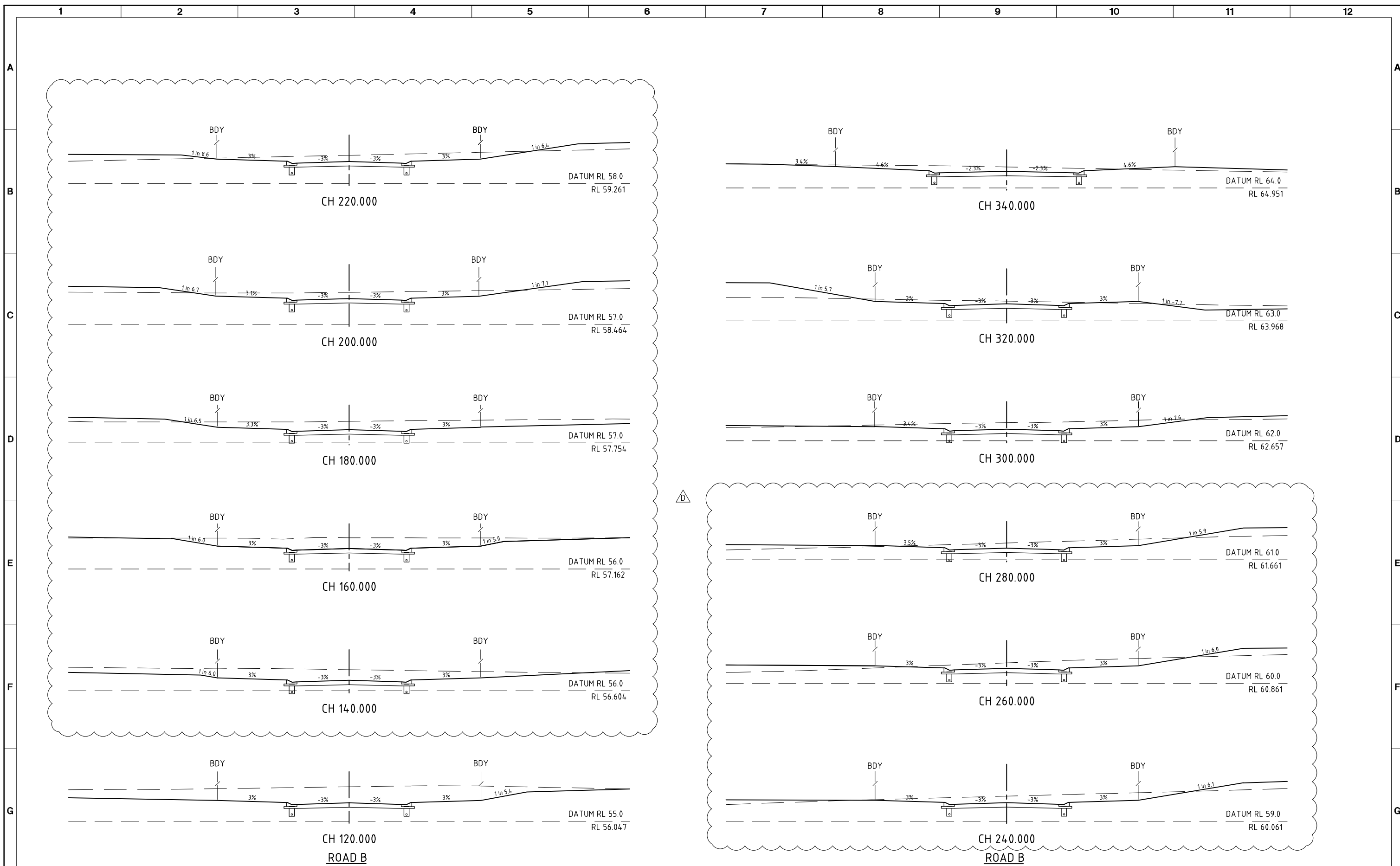
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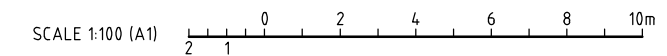
CLIENT WESTERLY PROJECTS PTY LTD			
PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE ROAD CROSS SECTIONS SHEET 2 OF 5			
SCALE 1:100(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-10	AMDT D





△



DATE: 08.12.2015@08:42:01 LOGIN NAME: sbest  
 XREF: X-CF21311-TITLEBLOCK  
 LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-09-13.dwg

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
D	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

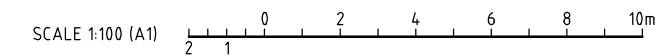
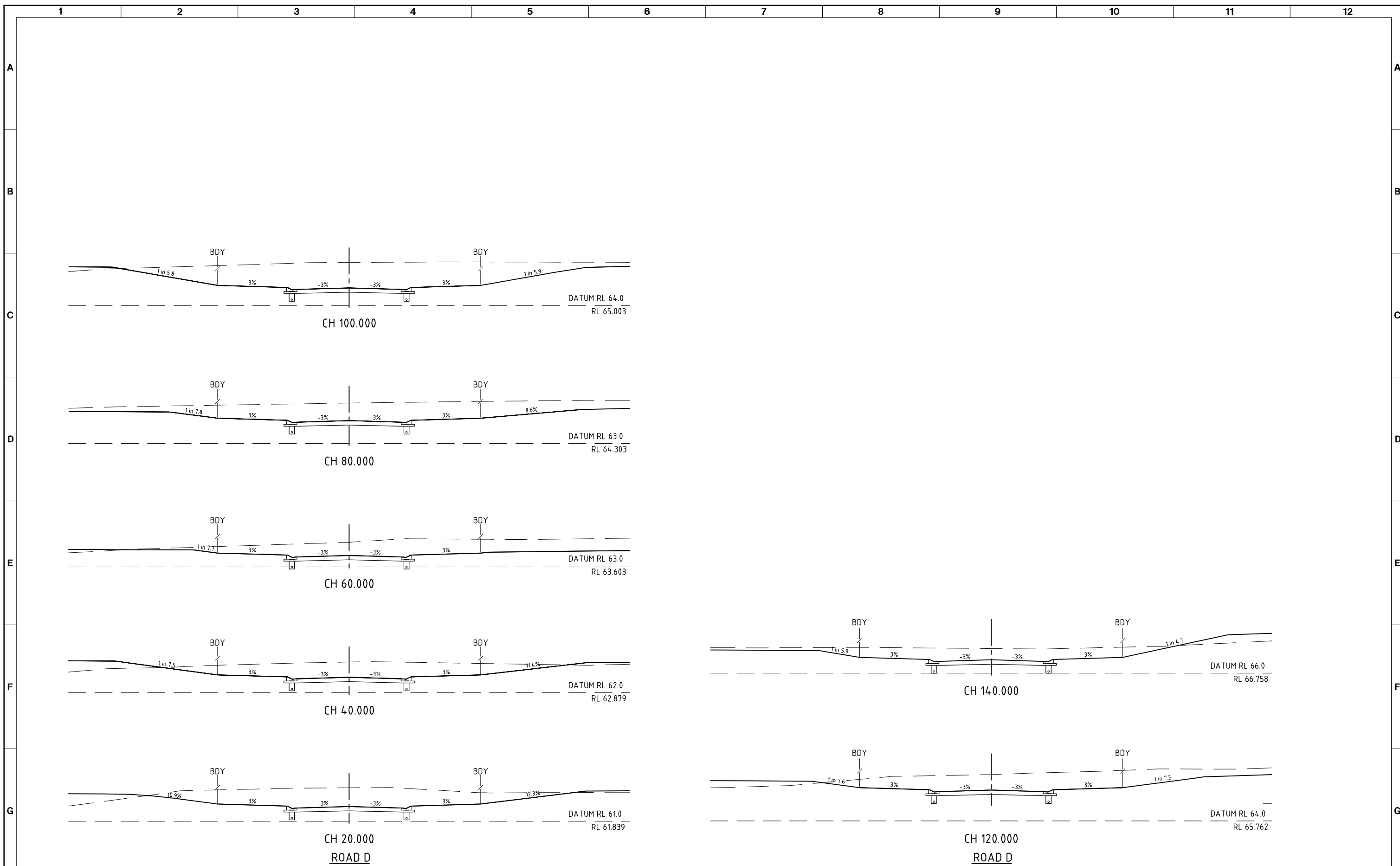


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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		APPROVED No.

TITLE ROAD CROSS SECTIONS SHEET 3 OF 5			
SCALE 1:100(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-11	AMDT D



DATE: 08.12.2015@08:42:05 LOGIN NAME: sbest  
 XREF: X-CF21311-TITLEBLOCK  
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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



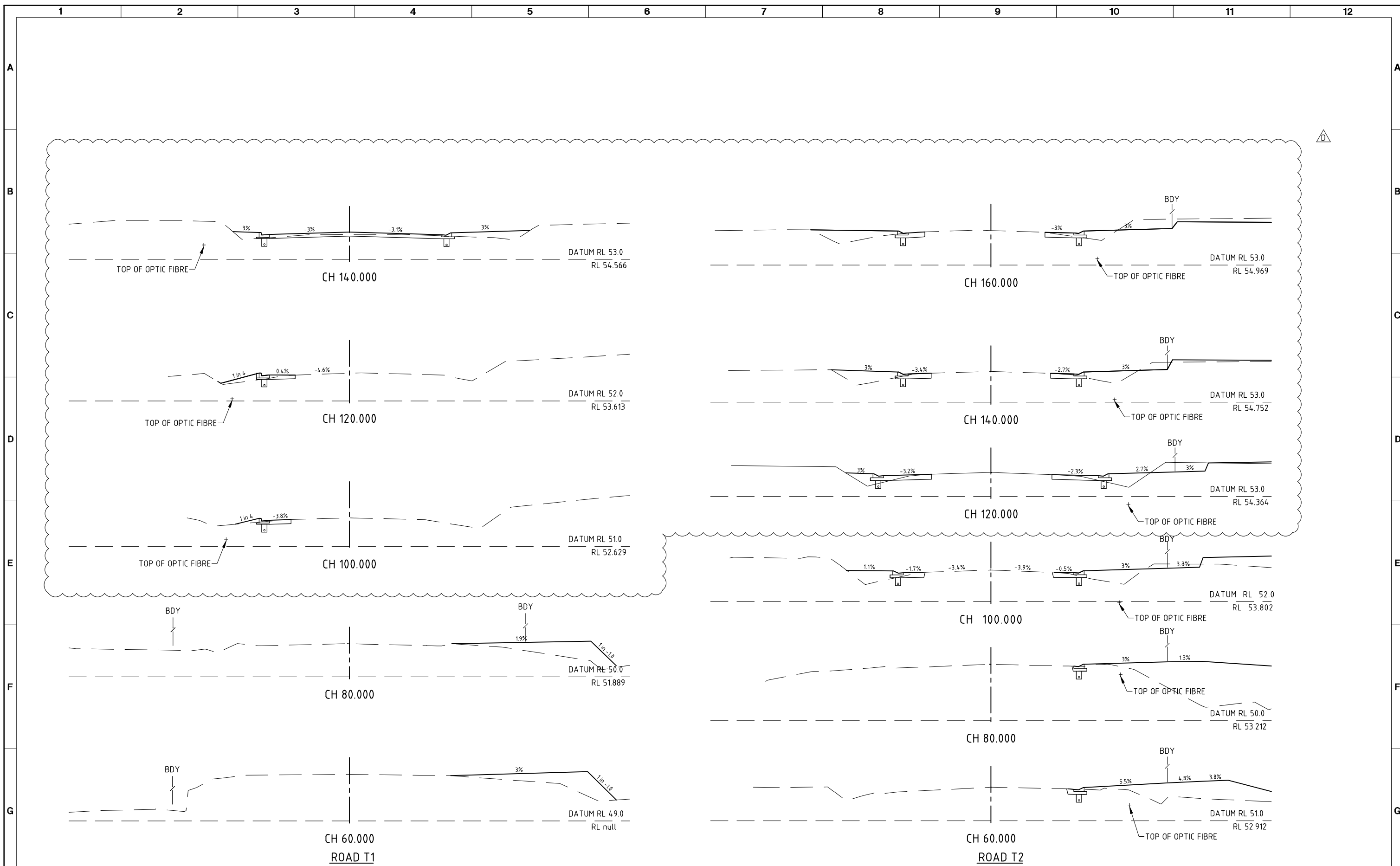
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		APPROVED No.

TITLE ROAD CROSS SECTIONS SHEET 4 OF 5			
SCALE 1:100(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-12	AMDT C





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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

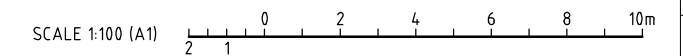


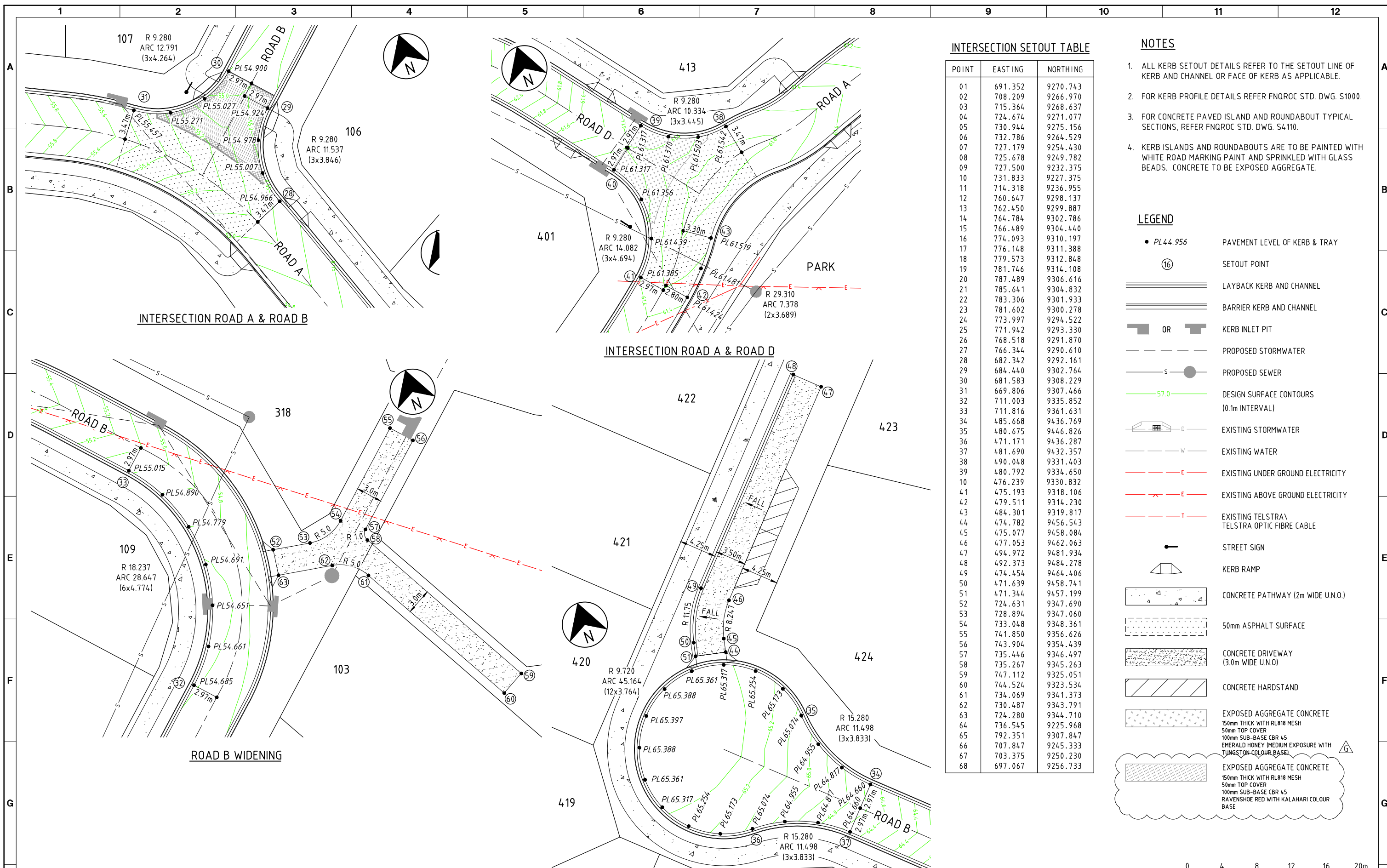
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.9.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.9.10
DESIGNED PAM	DESIGN REVIEW RJB		APPROVED No.

TITLE ROAD CROSS SECTIONS SHEET 5 OF 5			
SCALE 1:100(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-13	AMDT D





**INTERSECTION SETOUT TABLE**

POINT	EASTING	NORTHING
01	691.352	9270.743
02	708.209	9266.970
03	715.364	9268.637
04	724.674	9271.077
05	730.944	9275.156
06	732.786	9264.529
07	727.179	9254.430
08	725.678	9249.782
09	727.500	9232.375
10	731.833	9227.375
11	714.318	9236.955
12	760.647	9298.137
13	762.450	9299.887
14	764.784	9302.786
15	766.489	9304.440
16	774.093	9310.197
17	776.148	9311.388
18	779.573	9312.848
19	781.746	9314.108
20	787.489	9306.616
21	785.641	9304.832
22	783.306	9301.933
23	781.602	9300.278
24	773.997	9294.522
25	771.942	9293.330
26	768.518	9291.870
27	766.344	9290.610
28	682.342	9292.161
29	684.440	9302.764
30	681.583	9308.229
31	669.806	9307.466
32	711.003	9335.852
33	711.816	9361.631
34	485.668	9436.769
35	480.675	9446.826
36	471.171	9436.287
37	481.690	9432.357
38	490.048	9331.403
39	480.792	9334.650
40	476.239	9330.832
41	475.193	9318.106
42	479.511	9314.230
43	484.301	9319.817
44	474.782	9456.543
45	475.077	9458.084
46	477.053	9462.063
47	494.972	9481.934
48	492.373	9484.278
49	474.454	9464.406
50	471.639	9458.741
51	471.344	9457.199
52	724.631	9347.690
53	728.894	9347.060
54	733.048	9348.361
55	741.850	9356.626
56	743.904	9354.439
57	735.446	9346.497
58	735.267	9345.263
59	747.112	9325.051
60	744.524	9323.534
61	734.069	9341.373
62	730.487	9343.791
63	724.280	9344.710
64	736.545	9225.968
65	792.351	9307.847
66	707.847	9245.333
67	703.375	9250.230
68	697.067	9256.733

**NOTES**

- ALL KERB SETOUT DETAILS REFER TO THE SETOUT LINE OF KERB AND CHANNEL OR FACE OF KERB AS APPLICABLE.
- FOR KERB PROFILE DETAILS REFER FNQROC STD. DWG. S1000.
- FOR CONCRETE PAVED ISLAND AND ROUNDABOUT TYPICAL SECTIONS, REFER FNQROC STD. DWG. S4110.
- KERB ISLANDS AND ROUNDABOUTS ARE TO BE PAINTED WITH WHITE ROAD MARKING PAINT AND SPRINKLED WITH GLASS BEADS. CONCRETE TO BE EXPOSED AGGREGATE.

**LEGEND**

- PL44.956 PAVEMENT LEVEL OF KERB & TRAY
- Ⓟ SETOUT POINT
- ==== LAYBACK KERB AND CHANNEL
- ==== BARRIER KERB AND CHANNEL
- OR KERB INLET PIT
- - - - PROPOSED STORMWATER
- - - - PROPOSED SEWER
- - - - DESIGN SURFACE CONTOURS (0.1m INTERVAL)
- EXISTING STORMWATER
- EXISTING WATER
- EXISTING UNDER GROUND ELECTRICITY
- EXISTING ABOVE GROUND ELECTRICITY
- EXISTING TELSTRA\ TELSTRA OPTIC FIBRE CABLE
- STREET SIGN
- KERB RAMP
- CONCRETE PATHWAY (2m WIDE U.N.O.)
- 50mm ASPHALT SURFACE
- CONCRETE DRIVEWAY (3.0m WIDE U.N.O)
- CONCRETE HARDSTAND
- EXPOSED AGGREGATE CONCRETE 150mm THICK WITH RL818 MESH 50mm TOP COVER 100mm SUB-BASE CBR 45 EMERALD HONEY MEDIUM EXPOSURE WITH TUNGSTON COLOUR BASE
- EXPOSED AGGREGATE CONCRETE 150mm THICK WITH RL818 MESH 50mm TOP COVER 100mm SUB-BASE CBR 45 RAVENSHOE RED WITH KALAHARI COLOUR BASE

SCALE 1:200 (A1) 0 4 8 12 16 20m

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
G	24.11.14	PAM	RJB	RJC	DAH	EXPOSED AGGREGATE FEATURE REVISED



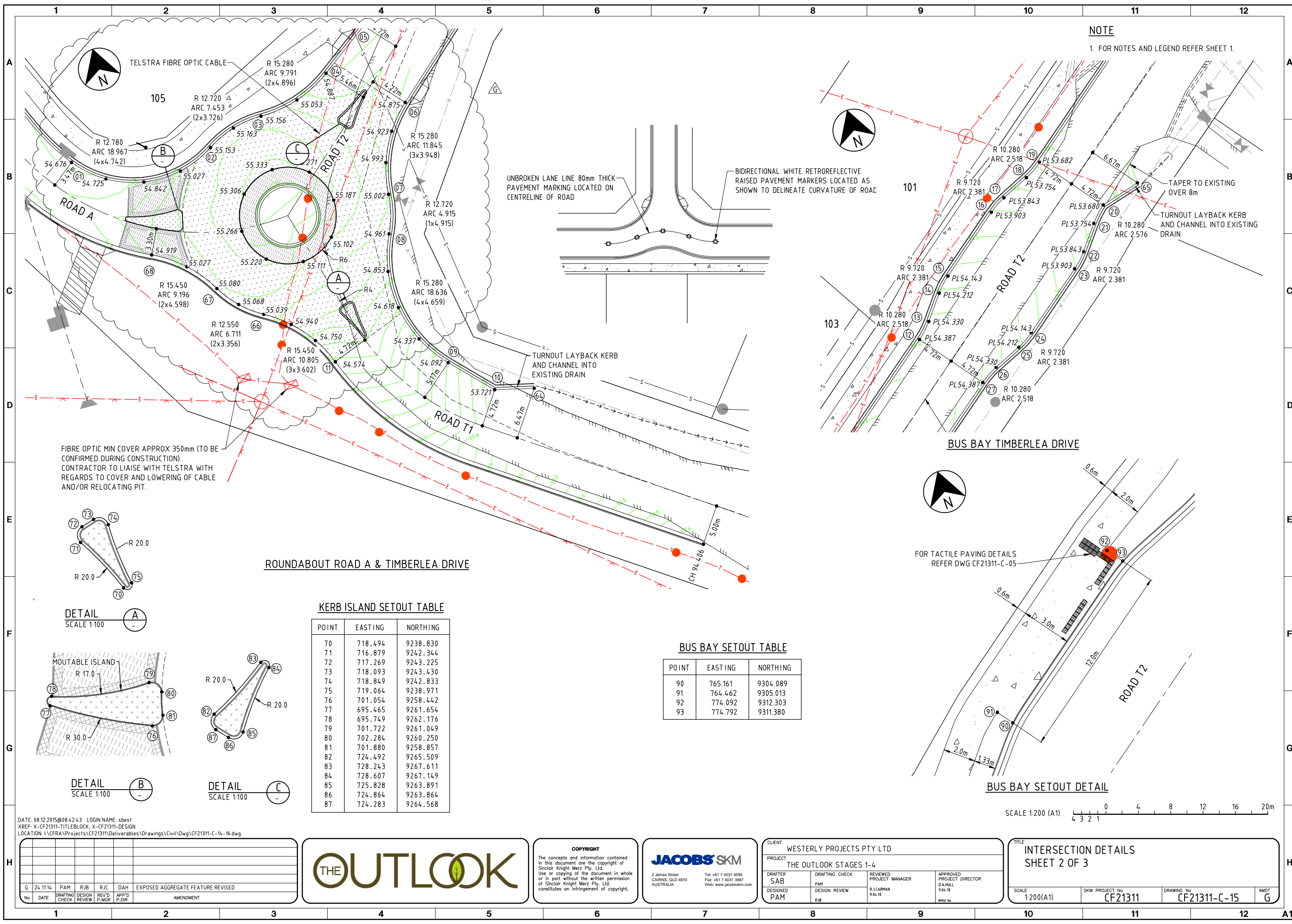
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.14.15	APPROVED PROJECT DIRECTOR 9.14.15
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE INTERSECTION DETAILS SHEET 1 OF 3			
SCALE 1:200(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-14	AMDT G





**NOTE**

1. FOR NOTES AND LEGEND REFER SHEET 1.

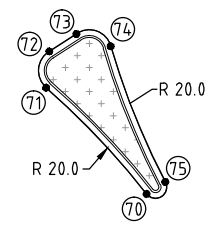
UNBROKEN LANE LINE 80mm THICK  
PAVEMENT MARKING LOCATED ON  
CENTRELINE OF ROAD

BIDIRECTIONAL WHITE RETROREFLECTIVE  
RAISED PAVEMENT MARKERS LOCATED AS  
SHOWN TO DELINEATE CURVATURE OF ROAD

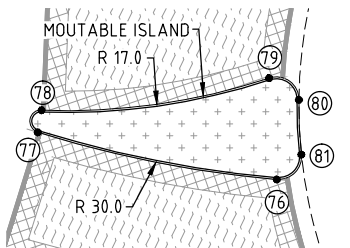
TURNOUT LAYBACK KERB  
AND CHANNEL INTO  
EXISTING DRAIN

FIBRE OPTIC MIN COVER APPROX 350mm (TO BE  
CONFIRMED DURING CONSTRUCTION).  
CONTRACTOR TO LIAISE WITH TELSTRA WITH  
REGARDS TO COVER AND LOWERING OF CABLE  
AND/OR RELOCATING PIT.

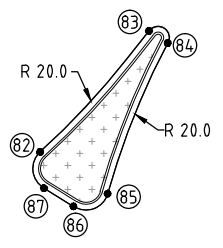
**ROUNDAABOUT ROAD A & TIMBERLEA DRIVE**



**DETAIL A**  
SCALE 1:100



**DETAIL B**  
SCALE 1:100



**DETAIL C**  
SCALE 1:100

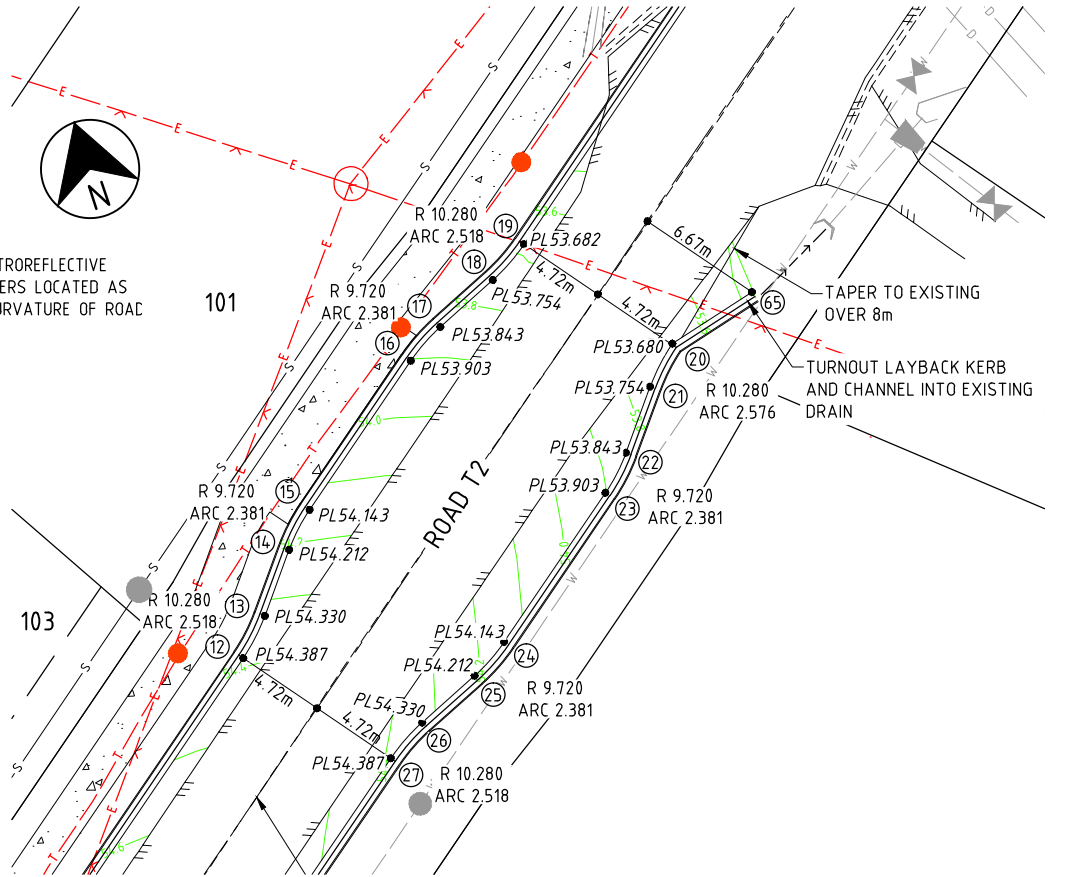
**KERB ISLAND SETOUT TABLE**

POINT	EASTING	NORTHING
70	718.494	9238.830
71	716.879	9242.344
72	717.269	9243.225
73	718.093	9243.430
74	718.849	9242.833
75	719.064	9238.971
76	701.054	9258.442
77	695.465	9261.654
78	695.749	9262.176
79	701.722	9261.049
80	702.284	9260.250
81	701.880	9258.857
82	724.492	9265.509
83	728.243	9267.611
84	728.607	9267.149
85	725.828	9263.891
86	724.864	9263.864
87	724.283	9264.568

**BUS BAY SETOUT TABLE**

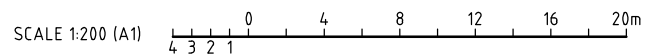
POINT	EASTING	NORTHING
90	765.161	9304.089
91	764.462	9305.013
92	774.092	9312.303
93	774.792	9311.380

**BUS BAY TIMBERLEA DRIVE**



FOR TACTILE PAVING DETAILS  
REFER DWG CF21311-C-05

**BUS BAY SETOUT DETAIL**



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LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-14-16.dwg

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
G	24.11.14	PAM	RJB	RJC	DAH	EXPOSED AGGREGATE FEATURE REVISED

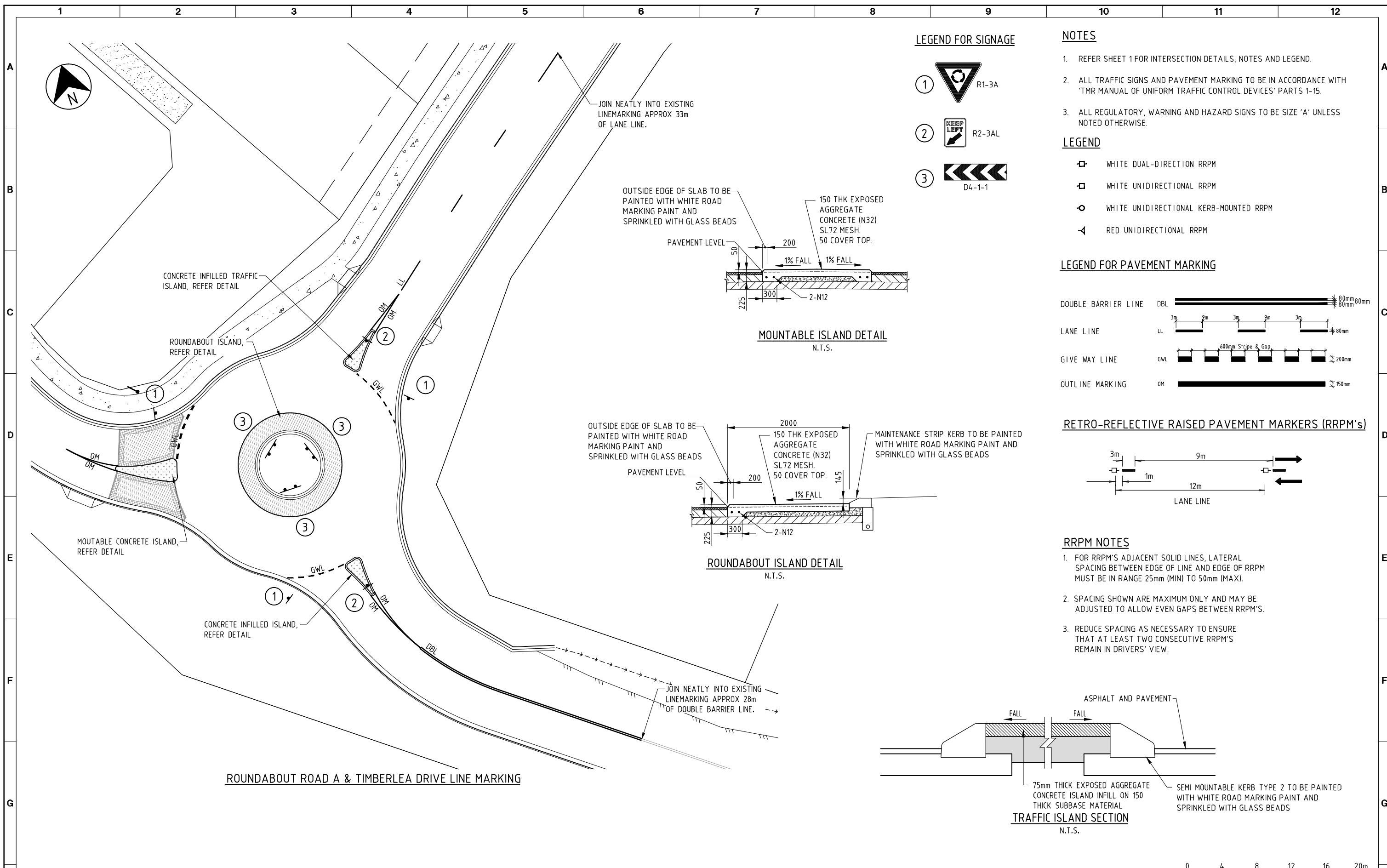


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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE INTERSECTION DETAILS SHEET 2 OF 3			
SCALE 1:200(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-15	AMDT G



**LEGEND FOR SIGNAGE**

- ① R1-3A
- ② R2-3AL
- ③ D4-1-1

**NOTES**

1. REFER SHEET 1 FOR INTERSECTION DETAILS, NOTES AND LEGEND.
2. ALL TRAFFIC SIGNS AND PAVEMENT MARKING TO BE IN ACCORDANCE WITH 'TMR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' PARTS 1-15.
3. ALL REGULATORY, WARNING AND HAZARD SIGNS TO BE SIZE 'A' UNLESS NOTED OTHERWISE.

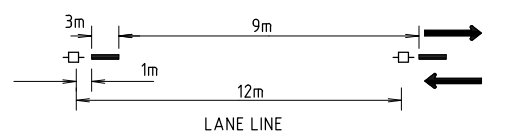
**LEGEND**

- WHITE DUAL-DIRECTION RRP
- WHITE UNIDIRECTIONAL RRP
- WHITE UNIDIRECTIONAL KERB-MOUNTED RRP
- RED UNIDIRECTIONAL RRP

**LEGEND FOR PAVEMENT MARKING**

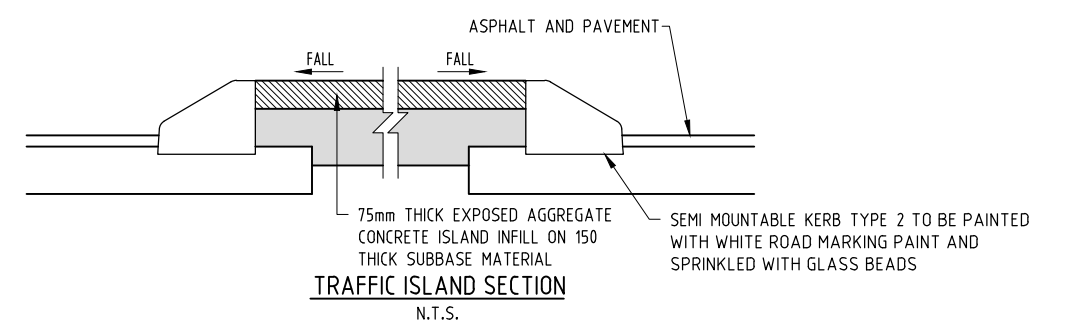
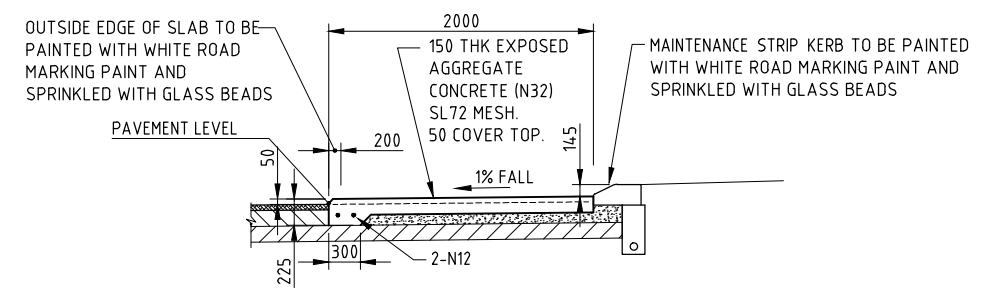
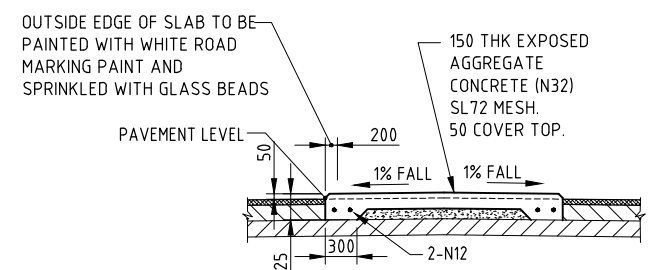
- DOUBLE BARRIER LINE DBL 80mm 80mm
- LANE LINE LL 80mm
- GIVE WAY LINE GWL 200mm
- OUTLINE MARKING OM 150mm

**RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM's)**

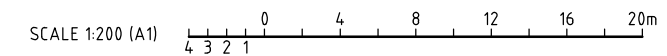


**RRPM NOTES**

1. FOR RRPM'S ADJACENT SOLID LINES, LATERAL SPACING BETWEEN EDGE OF LINE AND EDGE OF RRPM MUST BE IN RANGE 25mm (MIN) TO 50mm (MAX).
2. SPACING SHOWN ARE MAXIMUM ONLY AND MAY BE ADJUSTED TO ALLOW EVEN GAPS BETWEEN RRPM'S.
3. REDUCE SPACING AS NECESSARY TO ENSURE THAT AT LEAST TWO CONSECUTIVE RRPM'S REMAIN IN DRIVERS' VIEW.



**ROUNDABOUT ROAD A & TIMBERLEA DRIVE LINE MARKING**



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
E	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
D	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
C	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
B	21.05.10	PAM	RJB	RJC	DAH	ISLAND DETAILS ADDED
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



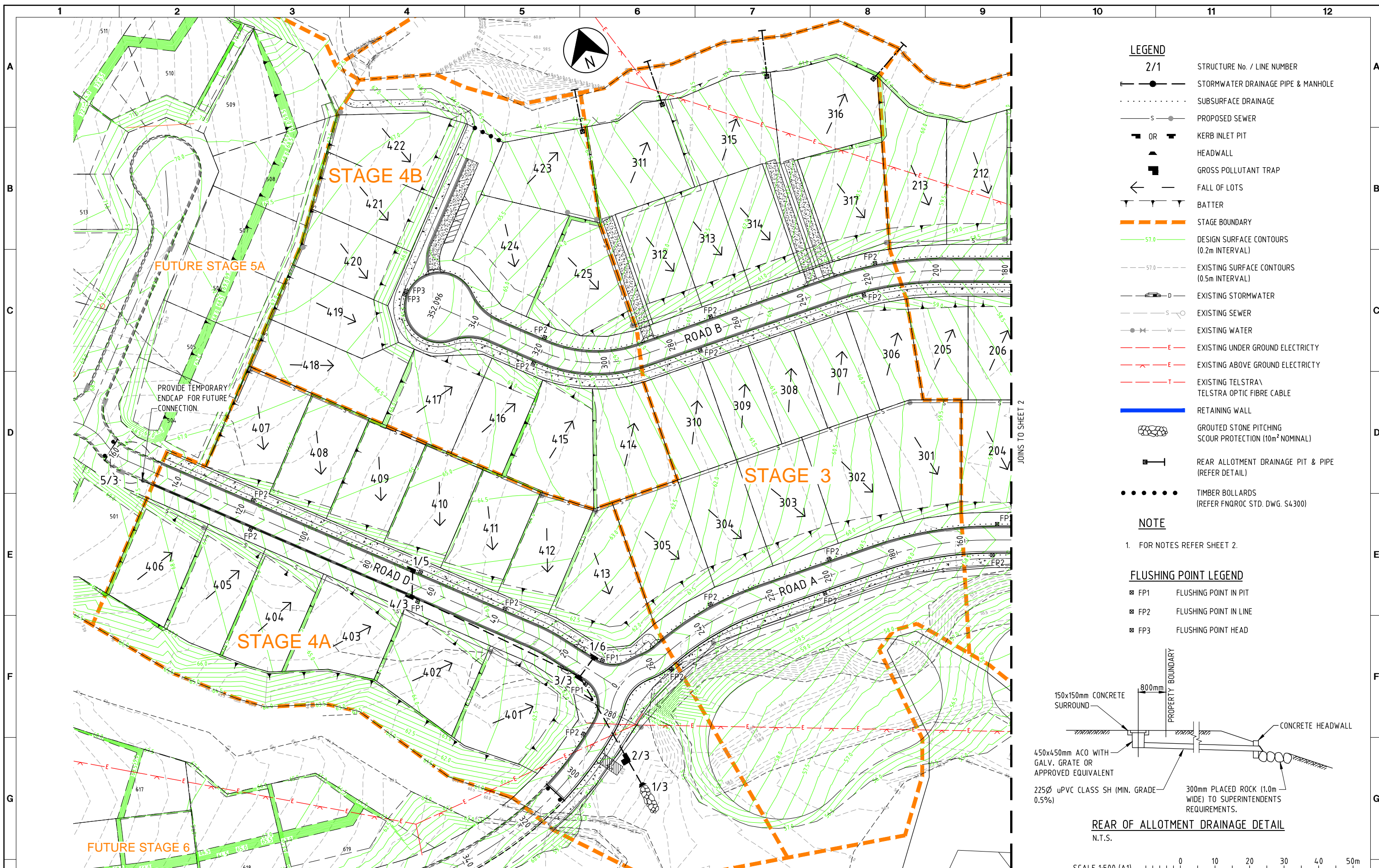
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DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.04.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.04.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE INTERSECTION DETAILS SHEET 3 OF 3			
SCALE 1:200(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-16	AMDT E





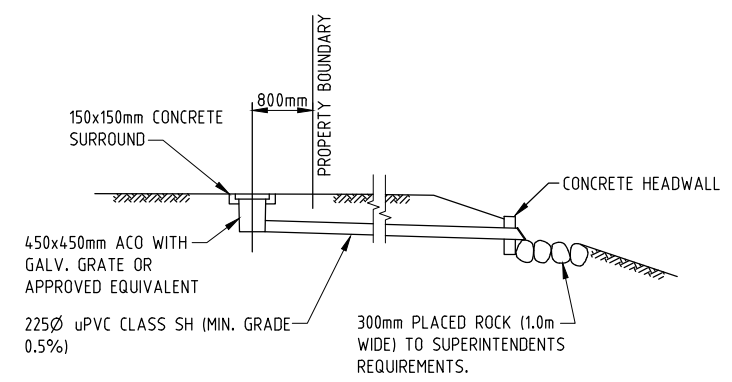
- LEGEND**
- 2/1 STRUCTURE No. / LINE NUMBER
  - STORMWATER DRAINAGE PIPE & MANHOLE
  - ..... SUBSURFACE DRAINAGE
  - S— PROPOSED SEWER
  - OR— KERB INLET PIT
  - ▲ HEADWALL
  - GROSS POLLUTANT TRAP
  - ← FALL OF LOTS
  - ▲ BATTER
  - STAGE BOUNDARY
  - 57.0 DESIGN SURFACE CONTOURS (0.2m INTERVAL)
  - 57.0 EXISTING SURFACE CONTOURS (0.5m INTERVAL)
  - D— EXISTING STORMWATER
  - S— EXISTING SEWER
  - W— EXISTING WATER
  - E— EXISTING UNDER GROUND ELECTRICITY
  - E— EXISTING ABOVE GROUND ELECTRICITY
  - T— EXISTING TELSTRA\ TELSTRA OPTIC FIBRE CABLE
  - RETAINING WALL
  - ⊞ GRouted STONE PITCHING SCOUR PROTECTION (10m<sup>2</sup> NOMINAL)
  - ⊞ REAR ALLOTMENT DRAINAGE PIT & PIPE (REFER DETAIL)
  - TIMBER BOLLARDS (REFER FNQROC STD. DWG. S4300)

**NOTE**

1. FOR NOTES REFER SHEET 2.

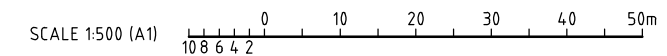
**FLUSHING POINT LEGEND**

- ⊞ FP1 FLUSHING POINT IN PIT
- ⊞ FP2 FLUSHING POINT IN LINE
- ⊞ FP3 FLUSHING POINT HEAD



**REAR OF ALLOTMENT DRAINAGE DETAIL**

N.T.S.



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
F	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 EARTHWORKS REVISED
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
C	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
B	21.05.10	PAM	RJB	RJC	DAH	PATHWAY REVISED
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



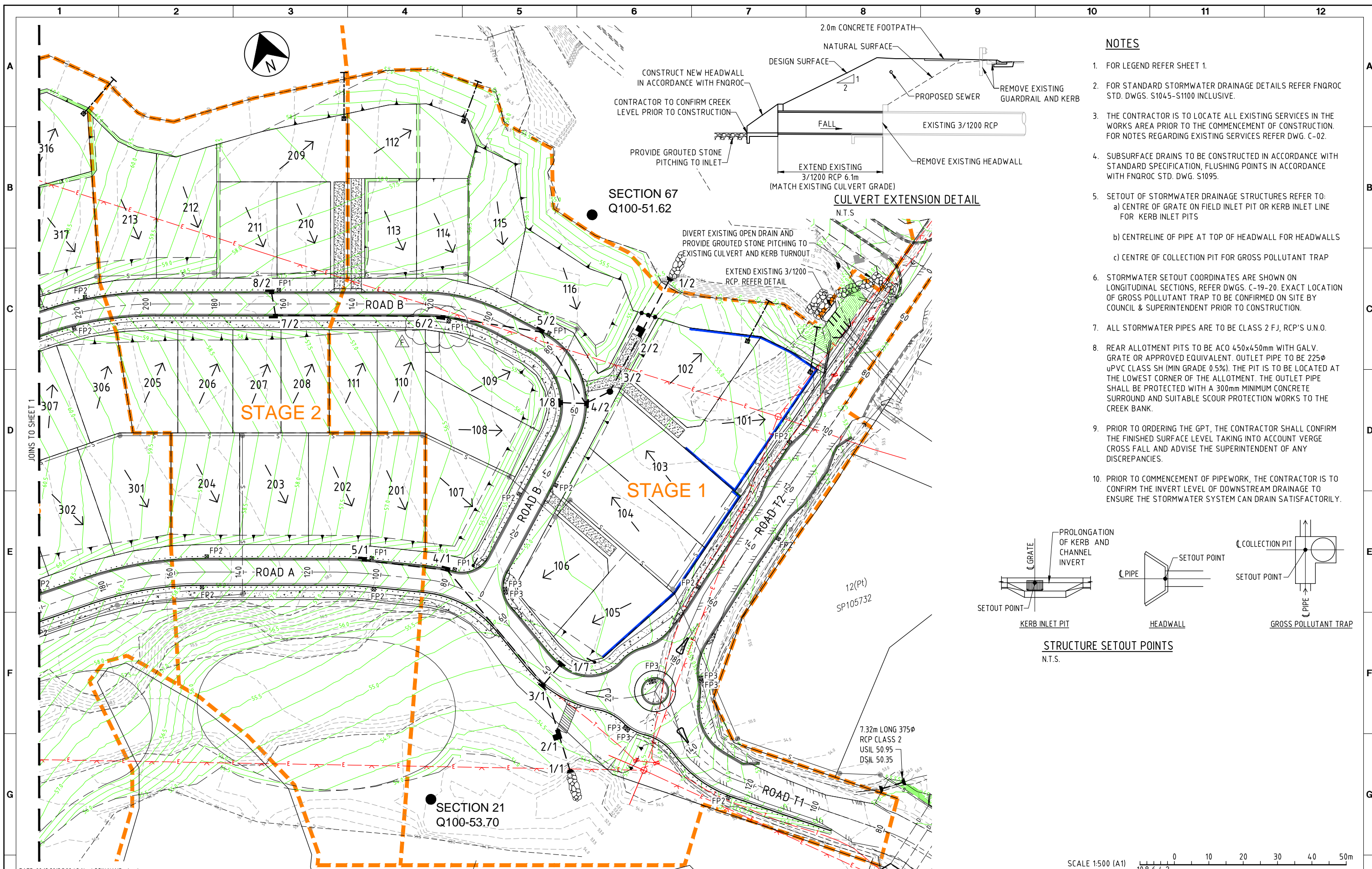
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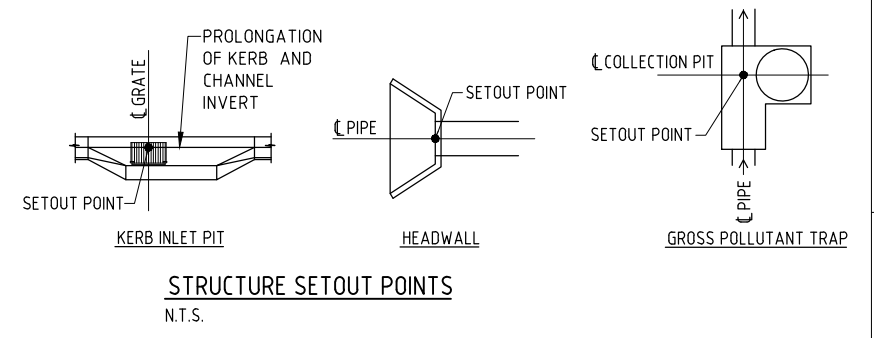
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.9.19	9.9.19

TITLE STORMWATER DRAINAGE SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-17	AMDT F





- NOTES**
- FOR LEGEND REFER SHEET 1.
  - FOR STANDARD STORMWATER DRAINAGE DETAILS REFER FNQROC STD. DWGS. S1045-S1100 INCLUSIVE.
  - THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE WORKS AREA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. FOR NOTES REGARDING EXISTING SERVICES REFER DWG. C-02.
  - SUBSURFACE DRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION, FLUSHING POINTS IN ACCORDANCE WITH FNQROC STD. DWG. S1095.
  - SETOUT OF STORMWATER DRAINAGE STRUCTURES REFER TO:
    - CENTRE OF GRATE ON FIELD INLET PIT OR KERB INLET LINE FOR KERB INLET PITS
    - CENTRELINE OF PIPE AT TOP OF HEADWALL FOR HEADWALLS
    - CENTRE OF COLLECTION PIT FOR GROSS POLLUTANT TRAP
  - STORMWATER SETOUT COORDINATES ARE SHOWN ON LONGITUDINAL SECTIONS, REFER DWGS. C-19-20. EXACT LOCATION OF GROSS POLLUTANT TRAP TO BE CONFIRMED ON SITE BY COUNCIL & SUPERINTENDENT PRIOR TO CONSTRUCTION.
  - ALL STORMWATER PIPES ARE TO BE CLASS 2 FJ, RCP'S U.N.O.
  - REAR ALLOTMENT PITS TO BE ACO 450x450mm WITH GALV. GRATE OR APPROVED EQUIVALENT. OUTLET PIPE TO BE 225 $\phi$  UPVC CLASS SH (MIN GRADE 0.5%). THE PIT IS TO BE LOCATED AT THE LOWEST CORNER OF THE ALLOTMENT. THE OUTLET PIPE SHALL BE PROTECTED WITH A 300mm MINIMUM CONCRETE SURROUND AND SUITABLE SCOUR PROTECTION WORKS TO THE CREEK BANK.
  - PRIOR TO ORDERING THE GPT, THE CONTRACTOR SHALL CONFIRM THE FINISHED SURFACE LEVEL TAKING INTO ACCOUNT VERGE CROSS FALL AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES.
  - PRIOR TO COMMENCEMENT OF PIPEWORK, THE CONTRACTOR IS TO CONFIRM THE INVERT LEVEL OF DOWNSTREAM DRAINAGE TO ENSURE THE STORMWATER SYSTEM CAN DRAIN SATISFACTORILY.



DATE: 08.12.2015@08:43:14 LOGIN NAME: sbsst  
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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
F	26.08.14	PAM	RJC	RJC	DAH	6/2 LOCATION REVISED
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

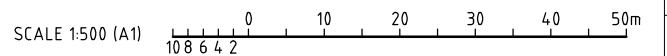


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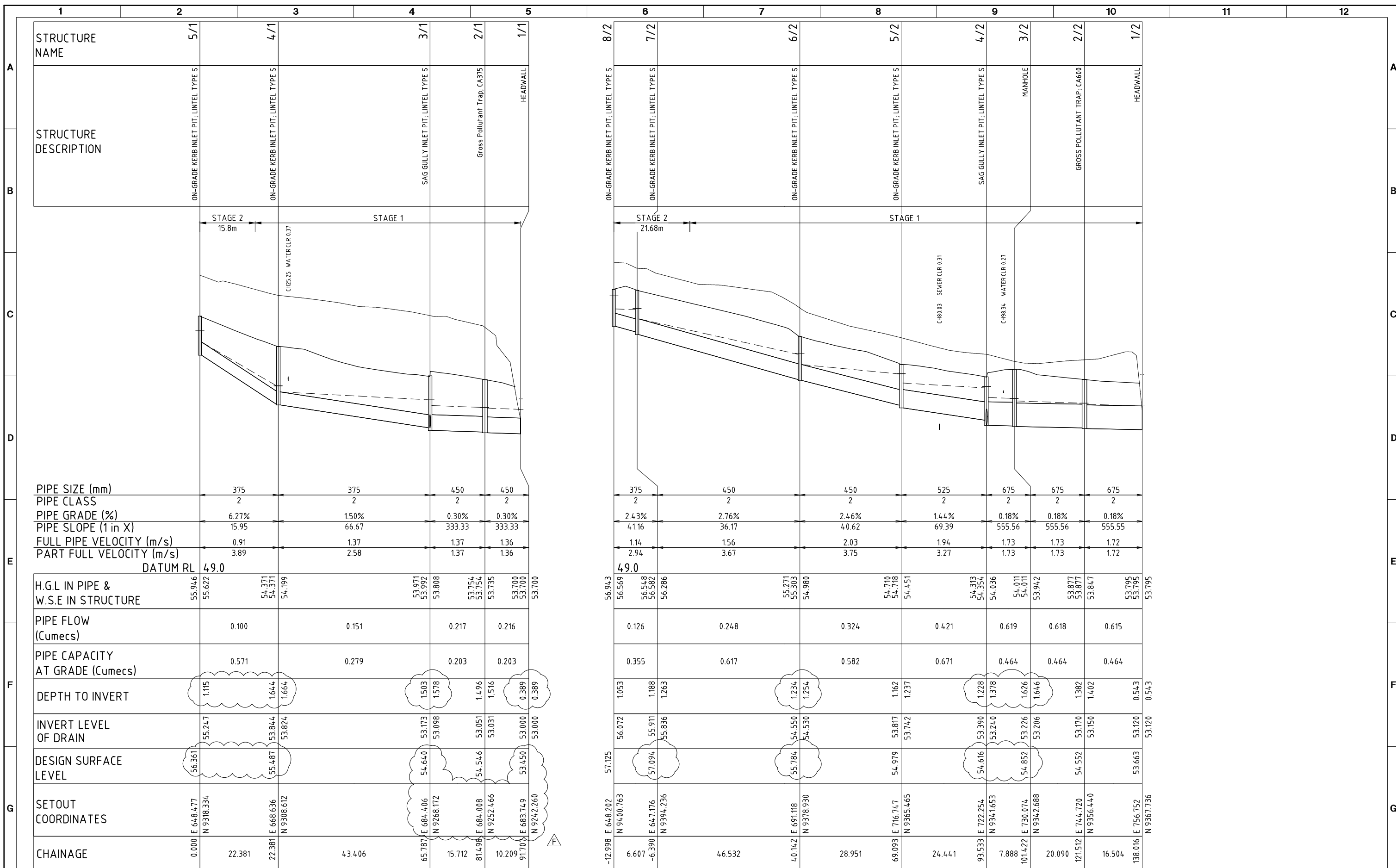


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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.8.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.8.10
DESIGNED PAM	DESIGN REVIEW RJB		

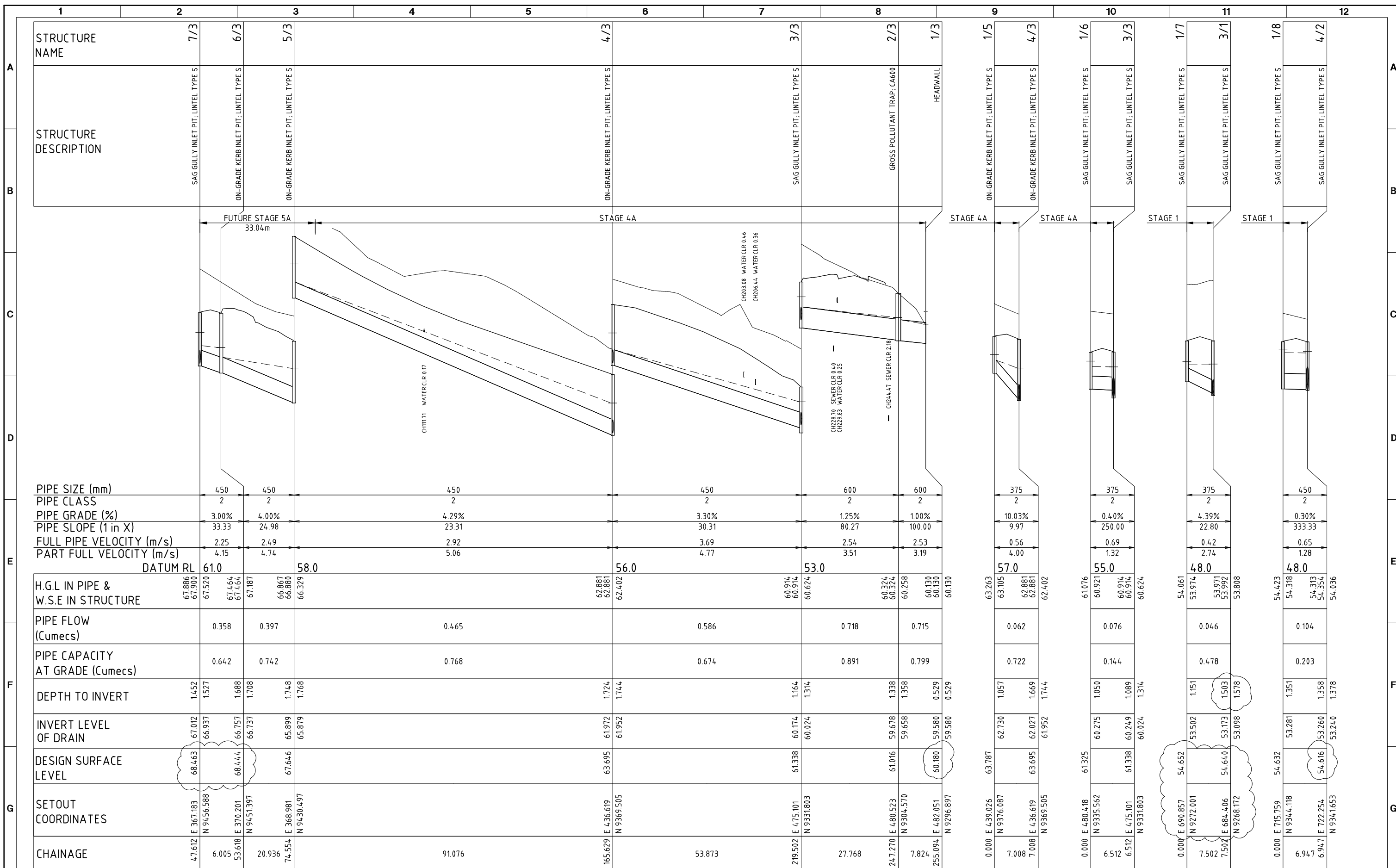
TITLE STORMWATER DRAINAGE SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-18	AMDT F







DATE: 08.12.2015 @ 08:43:23 LOGIN NAME: sbest		XREF: X-CF21311-TITLEBLOCK		LOCATION: I:\CFRA\Projects\CF21311\Deliverables\Drawings\Civil\DWG\CF21311-C-19-20.dwg																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>F</td><td>02.09.14</td><td>PAM</td><td>RJC</td><td>RJC</td><td>DAH</td><td>UPDATED COORDS AND FINISHED SURFACE LEVELS</td> </tr> <tr> <td>E</td><td>26.08.14</td><td>PAM</td><td>RJC</td><td>RJC</td><td>DAH</td><td>6/2 LOCATION REVISED</td> </tr> <tr> <td>D</td><td>06.06.14</td><td>RJB</td><td>RJC</td><td>RJC</td><td>DAH</td><td>LINE 1 REVISED</td> </tr> <tr> <td>C</td><td>23.05.14</td><td>RJB</td><td>RJC</td><td>RJC</td><td>DAH</td><td>LAYOUT REVISED</td> </tr> <tr> <td>B</td><td>14.09.10</td><td>LAJ</td><td>LAJ</td><td>RJC</td><td>DAH</td><td>AMEND PROJECT NAME</td> </tr> <tr> <td>A</td><td>9.04.10</td><td>PAM</td><td>RJB</td><td>RJC</td><td>DAH</td><td>INITIAL ISSUE</td> </tr> <tr> <td>No</td><td>DATE</td><td>DRAFTING CHECK</td><td>DESIGN REVIEW</td><td>REV'D P.MGR</td><td>APP'D P.DIR</td><td>AMENDMENT</td> </tr> </table>						F	02.09.14	PAM	RJC	RJC	DAH	UPDATED COORDS AND FINISHED SURFACE LEVELS	E	26.08.14	PAM	RJC	RJC	DAH	6/2 LOCATION REVISED	D	06.06.14	RJB	RJC	RJC	DAH	LINE 1 REVISED	C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED	B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME	A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE	No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
F	02.09.14	PAM	RJC	RJC	DAH	UPDATED COORDS AND FINISHED SURFACE LEVELS																																																
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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT																																																
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DESIGNED PAM	DESIGN REVIEW RJB	APPROVED DATE																																																				
TITLE STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2																																																						
SCALE 1:500H; 1:50V(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-19	AMDT F																																																			



LINE	DATE	BY	CHKD	APP'D	DESCRIPTION	
E	02.09.14	PAM	RJC	RJC	DAH	UPDATED COORDS AND FINISHED SURFACE LEVELS
D	06.06.14	RJB	RJC	RJC	DAH	LINE 7 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT

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CLIENT	PROJECT	DRAFTER	DRAFTING CHECK	REVIEWED PROJECT MANAGER	APPROVED PROJECT DIRECTOR
WESTERLY PROJECTS PTY LTD	THE OUTLOOK STAGES 1-4	SAB	PAM	R.J.CARMAN	D.A.HILL
		DESIGNED PAM	DESIGN REVIEW RJB	9.4.10	9.4.10

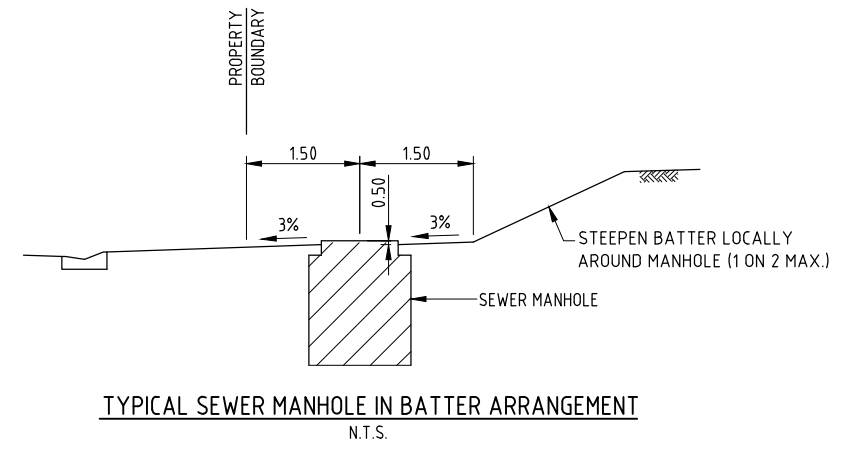
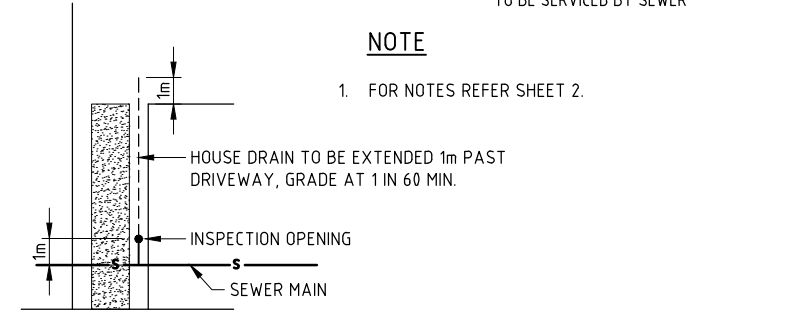
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1:500H;1:50V(A1)	CF21311	CF21311-C-20	E





- LEGEND**
- 2/1 LINE NUMBER / STRUCTURE No.
  - SEWER MAIN, MANHOLE AND ENDCAP
  - 150Ø SEWER MAIN
  - 225Ø SEWER MAIN
  - E1 HOUSE CONNECTION BRANCH / TYPE
  - HOUSE CONNECTION BRANCH / TYPE ON EXISTING SEWER LINE
  - PROPOSED STORMWATER
  - BATTER
  - STAGE BOUNDARY
  - DESIGN SURFACE CONTOURS (0.2m INTERVAL)
  - EXISTING SURFACE CONTOURS (0.5m INTERVAL)
  - EXISTING STORMWATER
  - EXISTING SEWER
  - EXISTING WATER
  - EXISTING UNDER GROUND ELECTRICITY
  - EXISTING ABOVE GROUND ELECTRICITY
  - EXISTING TELSTRA\ TELSTRA OPTIC FIBRE CABLE
  - RETAINING WALL
  - MINIMUM LEVEL OF LOT ABLE TO BE SERVICED BY SEWER

**NOTE**  
1. FOR NOTES REFER SHEET 2.



SCALE 1:500 (A1)  
10 8 6 4 2 0 10 20 30 40 50m

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
H	08.12.15	PAM	RJC	RJC	CJC	STAGE 4 SEWER REVISED
G	03.11.14	PAM	RJB	RJC	CJC	LINE 5 MOVED INTO VERGE



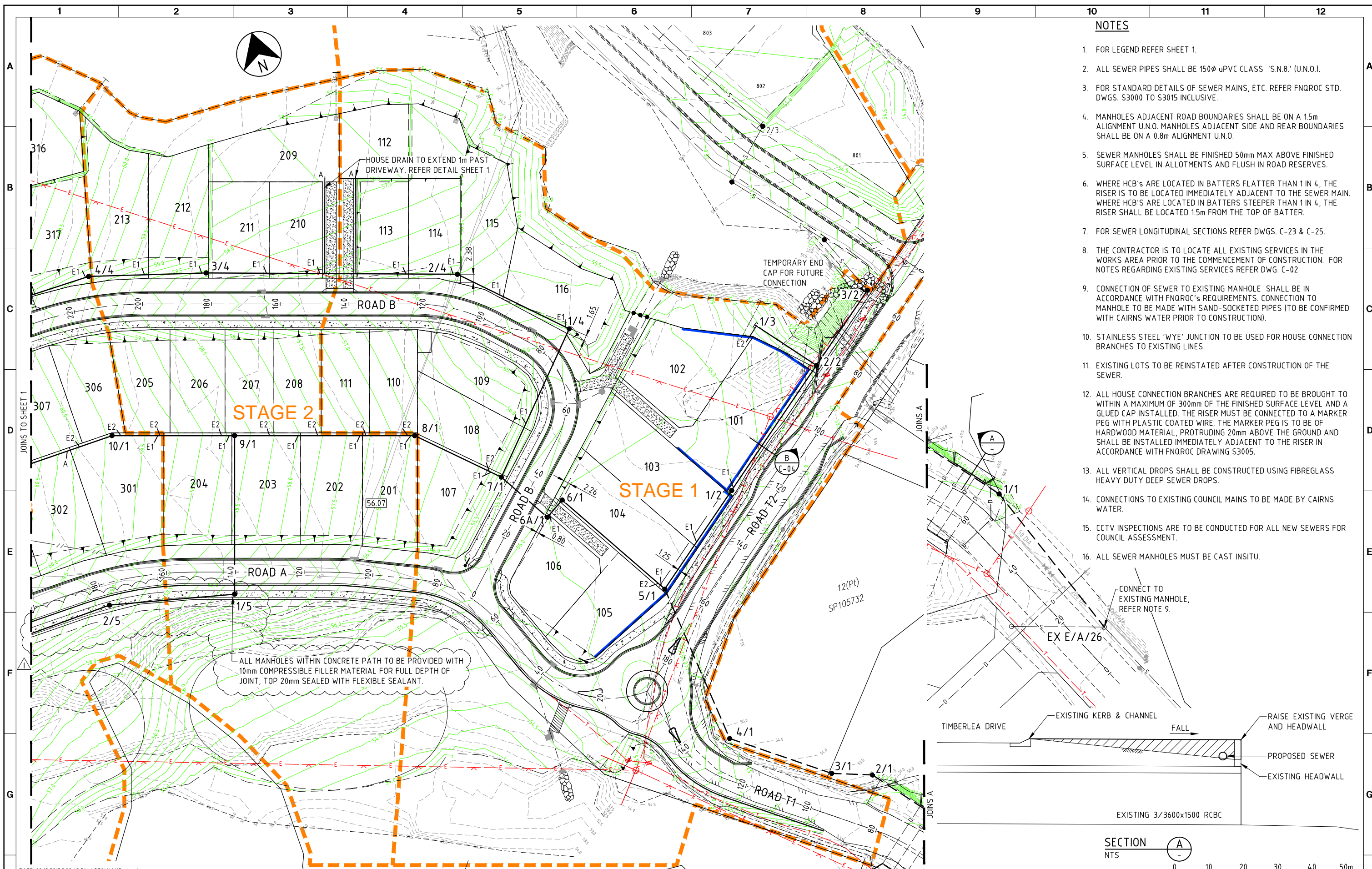
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CLIENT WESTERLY PROJECTS PTY LTD			
PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.84.19	9.84.19

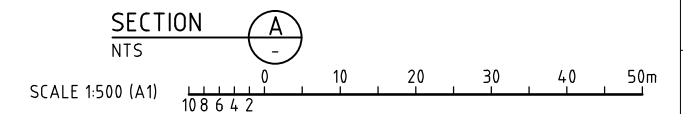
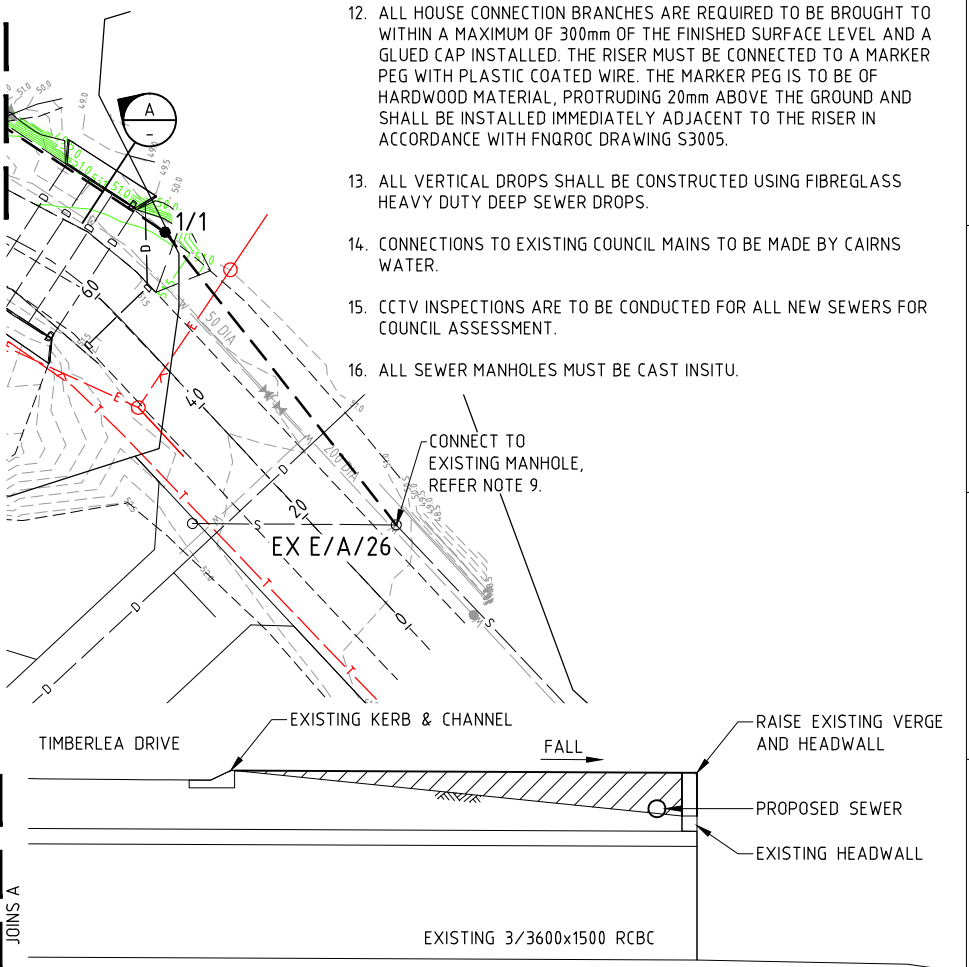
TITLE SEWERAGE SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-21	AMDT H





**NOTES**

- FOR LEGEND REFER SHEET 1.
- ALL SEWER PIPES SHALL BE 150Ø uPVC CLASS 'S.N.8.' (U.N.O.).
- FOR STANDARD DETAILS OF SEWER MAINS, ETC. REFER FNQROC STD. DWGS. S3000 TO S3015 INCLUSIVE.
- MANHOLES ADJACENT ROAD BOUNDARIES SHALL BE ON A 15m ALIGNMENT U.N.O. MANHOLES ADJACENT SIDE AND REAR BOUNDARIES SHALL BE ON A 0.8m ALIGNMENT U.N.O.
- SEWER MANHOLES SHALL BE FINISHED 50mm MAX ABOVE FINISHED SURFACE LEVEL IN ALLOTMENTS AND FLUSH IN ROAD RESERVES.
- WHERE HCB'S ARE LOCATED IN BATTERS FLATTER THAN 1 IN 4, THE RISER IS TO BE LOCATED IMMEDIATELY ADJACENT TO THE SEWER MAIN. WHERE HCB'S ARE LOCATED IN BATTERS STEEPER THAN 1 IN 4, THE RISER SHALL BE LOCATED 1.5m FROM THE TOP OF BATTER.
- FOR SEWER LONGITUDINAL SECTIONS REFER DWGS. C-23 & C-25.
- THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE WORKS AREA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. FOR NOTES REGARDING EXISTING SERVICES REFER DWG. C-02.
- CONNECTION OF SEWER TO EXISTING MANHOLE SHALL BE IN ACCORDANCE WITH FNQROC'S REQUIREMENTS. CONNECTION TO MANHOLE TO BE MADE WITH SAND-SOCKETED PIPES (TO BE CONFIRMED WITH CAIRNS WATER PRIOR TO CONSTRUCTION).
- STAINLESS STEEL 'WYE' JUNCTION TO BE USED FOR HOUSE CONNECTION BRANCHES TO EXISTING LINES.
- EXISTING LOTS TO BE REINSTATED AFTER CONSTRUCTION OF THE SEWER.
- ALL HOUSE CONNECTION BRANCHES ARE REQUIRED TO BE BROUGHT TO WITHIN A MAXIMUM OF 300mm OF THE FINISHED SURFACE LEVEL AND A GLOUED CAP INSTALLED. THE RISER MUST BE CONNECTED TO A MARKER PEG WITH PLASTIC COATED WIRE. THE MARKER PEG IS TO BE OF HARDWOOD MATERIAL, PROTRUDING 20mm ABOVE THE GROUND AND SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE RISER IN ACCORDANCE WITH FNQROC DRAWING S3005.
- ALL VERTICAL DROPS SHALL BE CONSTRUCTED USING FIBREGLASS HEAVY DUTY DEEP SEWER DROPS.
- CONNECTIONS TO EXISTING COUNCIL MAINS TO BE MADE BY CAIRNS WATER.
- CCTV INSPECTIONS ARE TO BE CONDUCTED FOR ALL NEW SEWERS FOR COUNCIL ASSESSMENT.
- ALL SEWER MANHOLES MUST BE CAST INSITU.



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I	03.11.14	PAM	RJB	RJC	CJC	LINE 5 MOVED INTO VERGE
H	21.08.14	PAM	RJB	RJC	DAH	MANHOLE 6A/1 ADDED, LINE 7 REMOVED
G	20.08.14	PAM	RJB	RJC	DAH	MANHOLE 1/2 ADDED



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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.9.19	9.9.19

TITLE SEWERAGE SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-22	AMDT 1

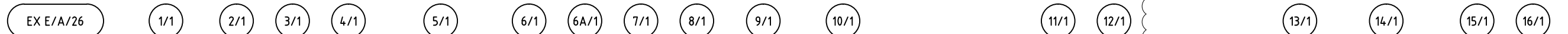


**NOTES**

- ALL MANHOLE DIAMETERS AND COVERS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000
- ALL MANHOLE DROPS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000

**LEGEND**

+ HOUSE CONNECTION BRANCH



CHS 60 EX 825 RCP CLR 0.4.9

DICL

CHS 239 EX 375 RCP CLR 0.95  
CHS 60 EX 3600x150 CLR 0.36  
CHS 60 EX 3600x150 CLR 0.36  
CHS 335 EX 3600x150 CLR 0.39

EX WATER DEPTH UNKNOWN

OPTIC FIBRE

CH22192 WATER CLR 133

CH23177 WATER CLR 120

5.0m  
TEMPORARY ENDCAP FOR FUTURE CONNECTION.

GRADE (1 in "X")	PIPE SIZE (mm)	DATUM RL	DEPTH TO INVERT	INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
290	225	43.0	1.79	49.310	51.10	51.10	E 805.367 N 9139.879	0.00
290	225	43.0	1.79	49.310	51.10	51.10	E 788.834 N 9186.342	4.932
290	225	43.0	2.30	49.480	51.78	51.04	E 769.297 N 9211.224	31.64
290	225	43.0	0.62	51.265	52.66	52.66	E 757.750 N 9216.066	80.95
290	225	43.0	1.40	51.305	53.34	53.34	E 732.899 N 9235.198	12.52
290	225	43.0	1.99	51.348	54.75	54.75	E 728.975 N 9282.426	31.36
290	225	43.0	1.95	51.388	55.46	55.65	E 709.003 N 9316.506	47.39
150	150	43.0	3.26	51.496	55.46	55.88	E 703.308 N 9313.169	172.23
150	150	43.0	3.22	51.536	55.46	56.02	E 694.373 N 9328.509	39.50
150	150	43.0	2.40	52.744	55.18	56.02	E 674.396 N 9348.017	6.60
150	150	43.0	2.40	52.784	55.18	56.79	E 624.767 N 9364.834	17.75
16.5	150	43.0	2.39	52.903	55.30	56.19	E 591.007 N 9376.273	27.92
16.5	150	43.0	2.32	52.973	55.30	56.19	E 591.007 N 9376.273	27.92
44.8	150	43.0	2.03	54.670	56.70	56.79	E 624.767 N 9364.834	264.00
44.8	150	43.0	1.98	54.720	56.70	56.79	E 624.767 N 9364.834	264.00
34.7	150	43.0	2.77	55.890	58.66	58.25	E 494.817 N 9375.666	52.40
34.7	150	43.0	2.52	56.140	58.66	58.25	E 494.817 N 9375.666	52.40
26.0	150	43.0	2.54	57.166	59.71	59.16	E 481.632 N 9384.937	35.65
26.0	150	43.0	2.47	57.236	59.71	59.16	E 481.632 N 9384.937	35.65
29.3	150	52.0	2.49	60.936	63.42	62.95	E 432.259 N 9446.492	96.19
29.3	150	52.0	2.42	61.006	63.42	62.95	E 432.259 N 9446.492	96.19
31.6	150	52.0	2.47	61.557	64.03	63.54	E 432.259 N 9446.492	16.12
31.6	150	52.0	2.40	61.627	64.03	63.54	E 432.259 N 9446.492	16.12
200	150	52.0	2.36	64.537	66.90	68.87	E 439.135 N 9475.188	464.36
200	150	52.0	2.29	64.607	66.90	68.87	E 439.135 N 9475.188	464.36
22.8	150	52.0	2.18	64.800	66.98	68.29	E 461.980 N 9508.734	92.00
22.8	150	52.0	2.11	64.870	66.98	68.29	E 461.980 N 9508.734	92.00
22.8	150	52.0	2.14	65.073	67.21	67.58	E 459.390 N 9530.437	38.64
22.8	150	52.0	2.07	65.143	67.21	67.58	E 459.390 N 9530.437	38.64
22.8	150	52.0	1.73	66.101	67.83	68.00	E 459.390 N 9530.437	595.00
22.8	150	52.0	1.66	66.171	67.83	68.00	E 459.390 N 9530.437	595.00

LINE 1



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J	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 LONG SECTIONS REVISED
H	21.08.14	PAM	RJC	RJC	DAH	LINE 1 REVISED
G	28.07.14	PME	RJB	RJC	DAH	LINE 1 AMENDED



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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.84.18	APPROVED PROJECT DIRECTOR D.A.HILL 9.84.18
DESIGNED PAM	DESIGN REVIEW RJB		

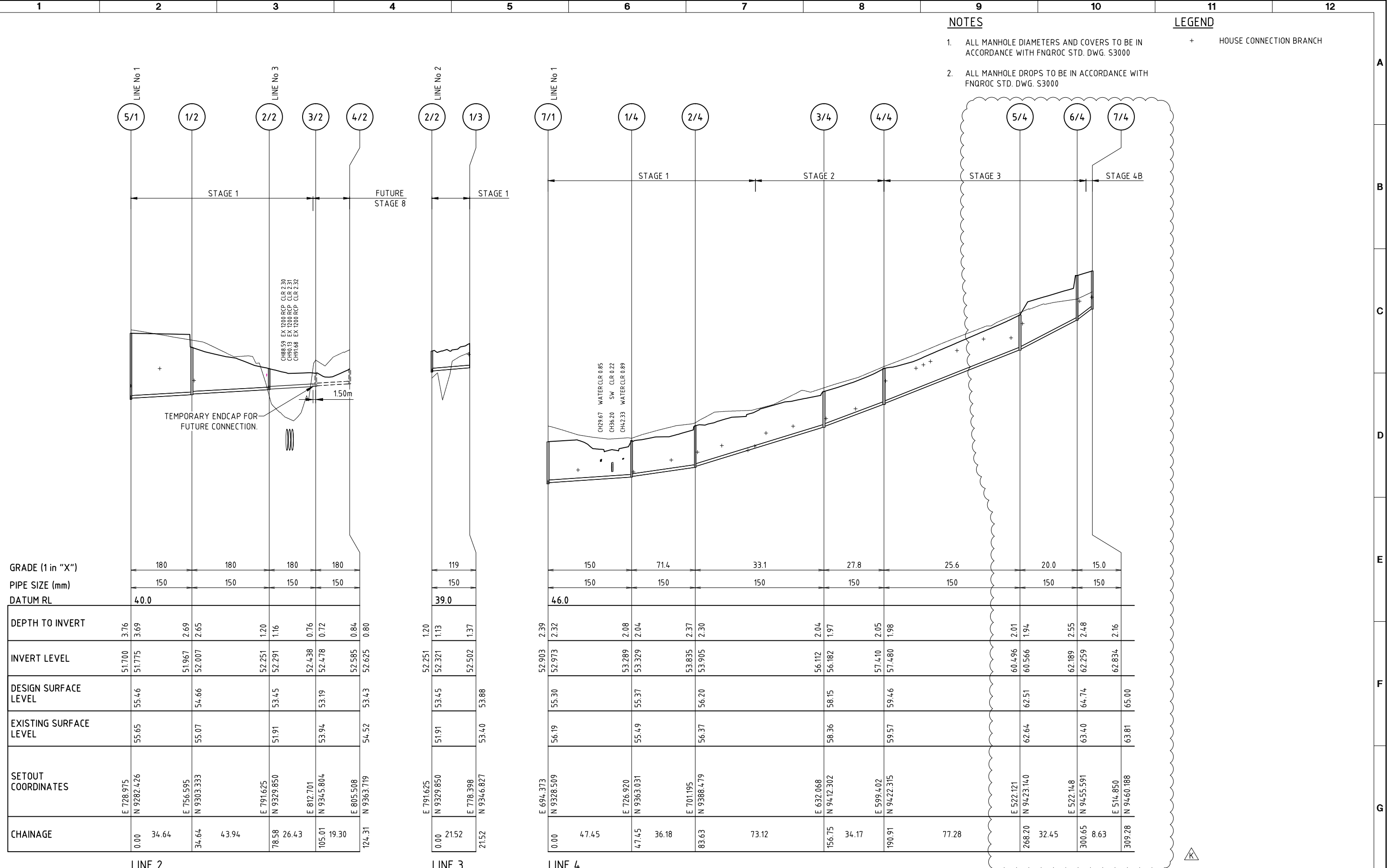
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**NOTES**

1. ALL MANHOLE DIAMETERS AND COVERS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000
2. ALL MANHOLE DROPS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000

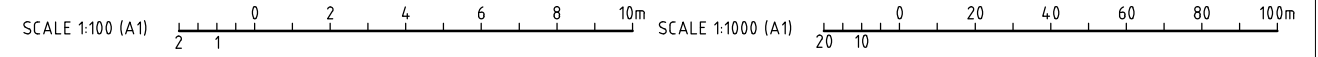
**LEGEND**

+ HOUSE CONNECTION BRANCH



GRADE (1 in "X")	PIPE SIZE (mm)	DATUM RL	DEPTH TO INVERT	INVERT LEVEL	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
180	150	40.0	3.76	51.700	55.46	55.65	E 728.975 N 9282.426	0.00
180	150	40.0	3.69	51.775	55.46	55.65	E 756.595 N 9303.333	34.64
180	150	40.0	2.69	51.967	54.66	55.07	E 791.625 N 9329.850	78.58
180	150	40.0	2.65	52.007	54.66	55.07	E 812.701 N 9345.804	105.01
180	150	40.0	1.20	52.251	53.45	53.94	E 805.508 N 9363.719	124.31
119	150	39.0	1.16	52.291	53.45	53.94	E 791.625 N 9329.850	0.00
119	150	39.0	1.13	52.321	53.45	53.94	E 778.398 N 9346.827	21.52
119	150	39.0	1.37	52.502	53.88	53.40	E 778.398 N 9346.827	21.52
150	150	46.0	2.39	52.903	55.30	56.19	E 694.373 N 9328.509	0.00
71.4	150	46.0	2.32	52.973	55.30	56.19	E 726.920 N 9363.031	47.45
33.1	150	46.0	2.08	53.289	55.37	55.49	E 701.195 N 9388.479	83.63
27.8	150	46.0	2.04	53.329	55.37	55.49	E 701.195 N 9388.479	83.63
27.8	150	46.0	2.37	53.835	56.20	56.37	E 632.068 N 9412.302	156.75
27.8	150	46.0	2.30	53.905	56.20	56.37	E 632.068 N 9412.302	156.75
25.6	150	46.0	2.04	56.112	58.15	58.36	E 599.402 N 9422.315	190.91
25.6	150	46.0	1.97	56.182	58.15	58.36	E 599.402 N 9422.315	190.91
20.0	150	46.0	2.05	57.410	59.46	59.57	E 522.121 N 9423.140	268.20
20.0	150	46.0	1.98	57.480	59.46	59.57	E 522.121 N 9423.140	268.20
15.0	150	46.0	2.01	60.496	62.51	62.64	E 522.148 N 9455.591	300.65
15.0	150	46.0	1.94	60.566	62.51	62.64	E 522.148 N 9455.591	300.65
15.0	150	46.0	2.55	62.189	64.74	63.40	E 514.850 N 9460.188	309.28
15.0	150	46.0	2.48	62.259	64.74	63.40	E 514.850 N 9460.188	309.28
15.0	150	46.0	2.16	62.834	65.00	63.81	E 514.850 N 9460.188	309.28

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K	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 LONG SECTIONS REVISED
J	21.08.14	PAM	RJC	RJC	DAH	LINE 4 REVISED
H	20.08.14	PAM	RJB	RJC	DAH	EXTRA MANHOLE ADDED TO LINE 2
G	28.07.14	PME	RJB	RJC	DAH	LINES 2 & 3 AMENDED



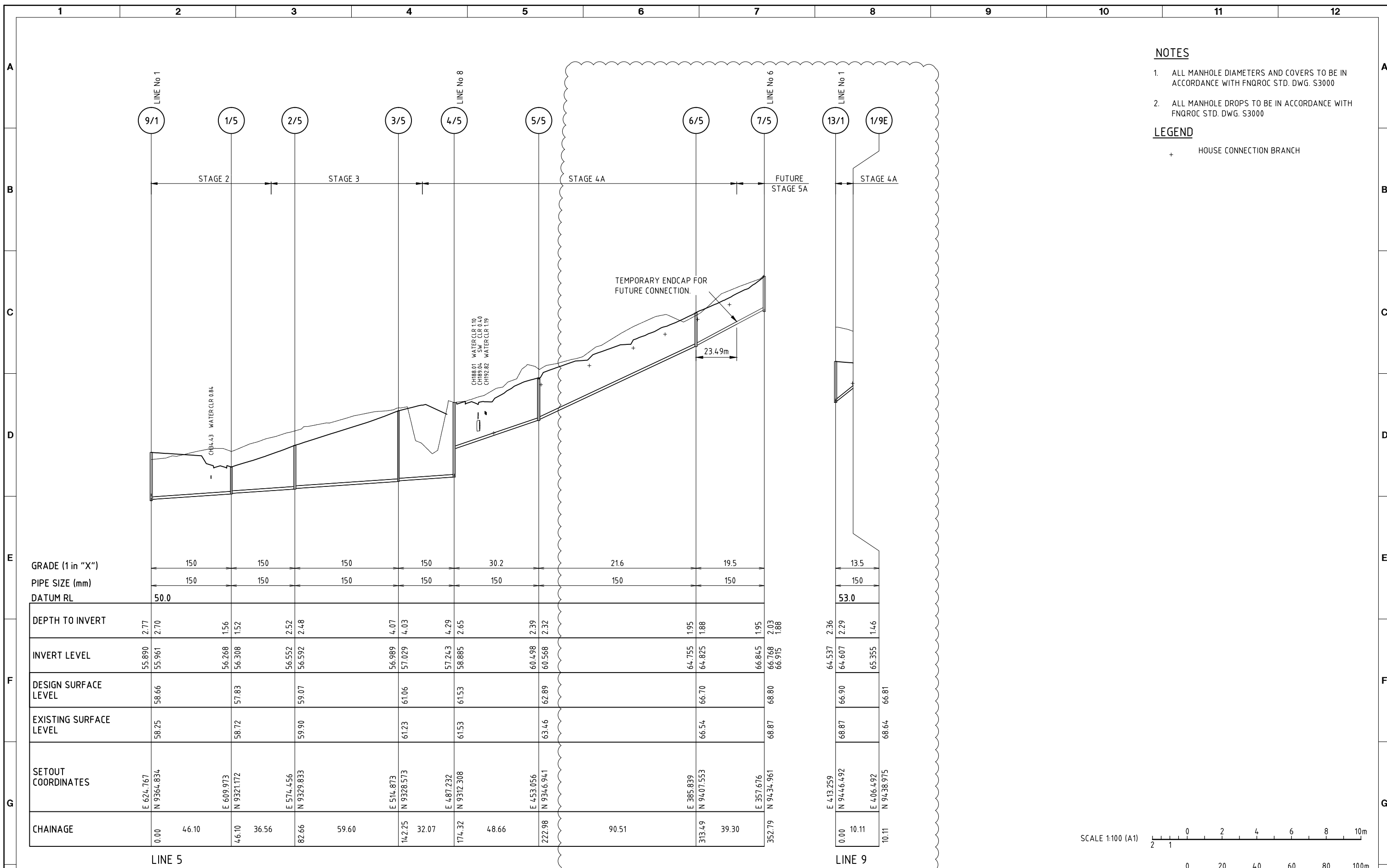
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.8.19	APPROVED PROJECT DIRECTOR D.A.HILL 9.8.19
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 3			
SCALE 1:1000H; 1:100V(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-24	AMDT K



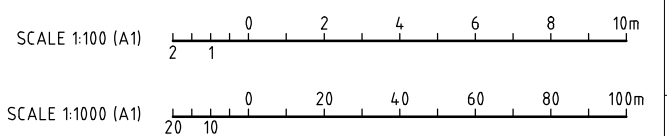


- NOTES**
- ALL MANHOLE DIAMETERS AND COVERS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000
  - ALL MANHOLE DROPS TO BE IN ACCORDANCE WITH FNQROC STD. DWG. S3000

**LEGEND**

+ HOUSE CONNECTION BRANCH

GRADE (1 in "X")	150										30.2		21.6		19.5		13.5				
PIPE SIZE (mm)	150										150		150		150		150				
DATUM RL	50.0														53.0						
DEPTH TO INVERT	2.77	2.70																			
INVERT LEVEL	55.890	55.961	56.268	56.308	56.552	56.592	56.989	57.029	57.243	58.885	60.498	60.568	64.755	64.825	66.845	66.768	66.915	64.537	64.607	65.355	65.355
DESIGN SURFACE LEVEL		58.66	57.83		59.07		61.06		61.53		62.89		66.70		68.80	68.87	68.87	66.90	66.90	66.87	66.87
EXISTING SURFACE LEVEL		58.25	58.72		59.90		61.23		61.53		63.46		66.54		68.87	68.87	68.87	66.87	66.87	66.87	66.87
SETOUT COORDINATES	E 624.767 N 9364.834		E 609.973 N 9321.172		E 574.456 N 9329.833		E 514.873 N 9328.573		E 487.232 N 9312.308		E 453.056 N 9346.941		E 385.839 N 9407.553		E 357.676 N 9434.961		E 413.259 N 9446.492		E 406.492 N 9438.975		
CHAINAGE	0.00	46.10	46.10	36.56	82.66	59.60	142.25	32.07	174.32	48.66	222.98		313.49	39.30	352.79		0.00	10.11	10.11		



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
J	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 LONG SECTIONS REVISED
H	03.11.14	PAM	RJB	RJC	DAH	LINE 5 MOVED INTO VERGE
G	21.08.14	PAM	RJB	RJC	DAH	LINE 7 REMOVED

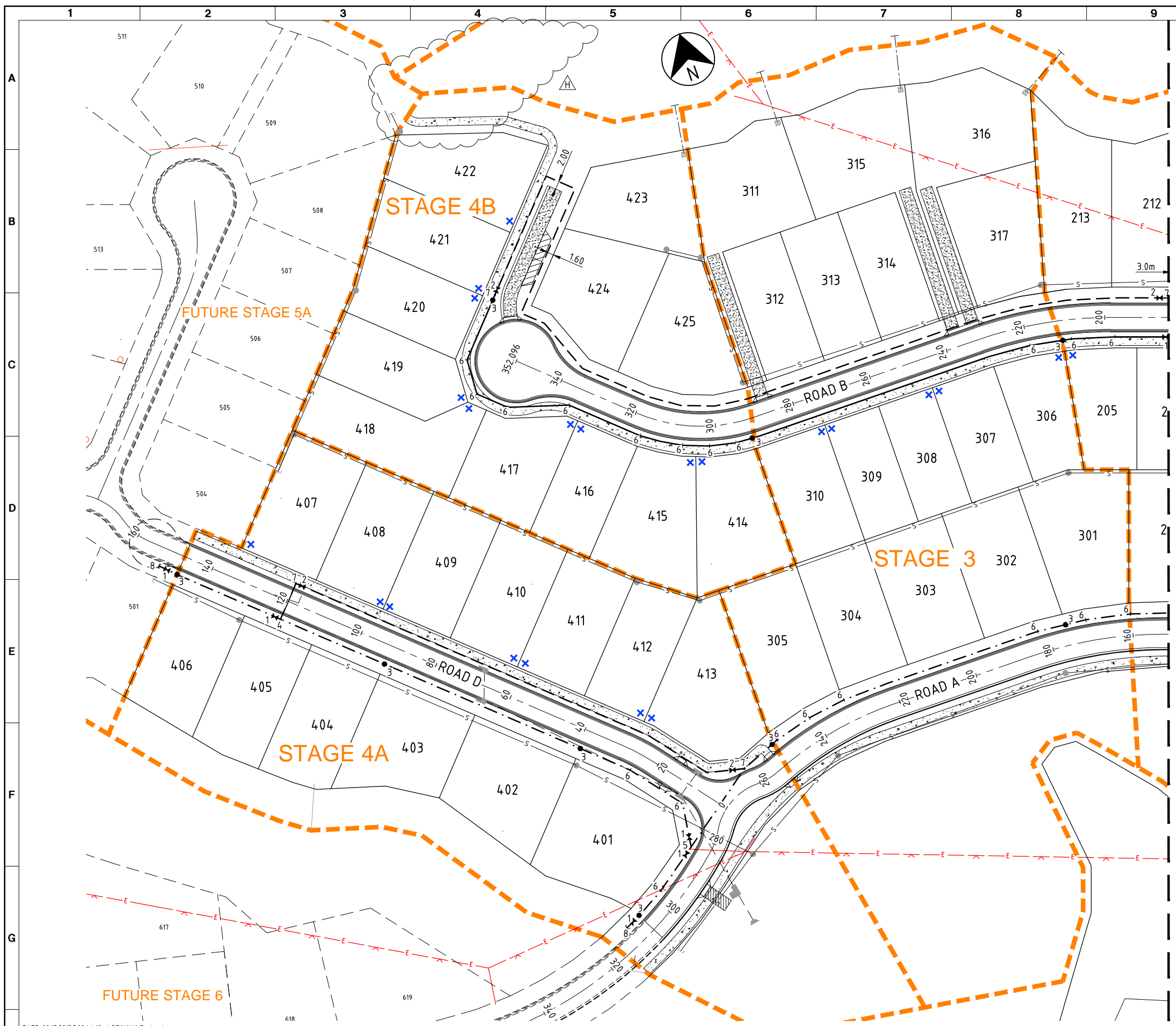


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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE SEWERAGE LONGITUDINAL SECTIONS SHEET 3 OF 3			
SCALE 1:1000H; 1:100V (A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-25	AMDT J



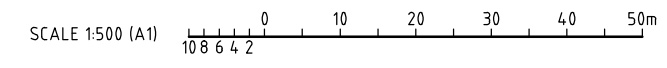
### WATER SUPPLY PIPE AND FITTINGS LIST

REF.	CODE	DESCRIPTION
1		SLUICE VALVE CLASS '14' COMPLETE WITH C.I. COVER BOX, CONCRETE MARGIN AND MARKER
2		50 BRONZE GATE VALVE COMPLETE WITH C.I. COVER BOX, CONCRETE MARGIN AND MARKER
3		80 SPRING HYDRANT COMPLETE WITH RISER, TEE, C.I. COVER BOX, CONCRETE MARGIN AND MARKER
4		TEE WITH CONCRETE THRUST BLOCK
5		WYE WITH CONCRETE THRUST BLOCK
6		BEND TO SUIT WITH CONCRETE THRUST BLOCK
7		SERVICE MAIN CONNECTION
8		DEAD END CAP WITH CONCRETE THRUST BLOCK
9		TAPER TO SUIT
---		225 uPVC WATER MAIN CLASS '16' RUBBER RING JOINTED
-.-.-		150 uPVC WATER MAIN CLASS '16' RUBBER RING JOINTED
---		100 uPVC WATER MAIN CLASS '16' RUBBER RING JOINTED
---		63 OD PE 100 PN 16

- ### NOTES
- ALL WATER MAINS ARE ON 2.8m ALIGNMENTS FROM R.P. BOUNDARY U.N.O.
  - FOR STANDARD DETAILS REFER FNQROC. STD. DWGS. S2000 TO S2035 INCLUSIVE.
  - CONNECTIONS TO EXISTING COUNCIL MAINS TO BE MADE UNDER TO DIRECTION OF THE LOCAL AUTHORITY.
  - THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE WORKS AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFER DWG. C-02 FOR NOTES REGARDING EXISTING SERVICES.
  - PROVIDE 80mm uPVC CLASS 6 CONDUITS WITH 300mm COVER UNDER CONCRETE FOOTPATH FOR WATER SERVICES AS PER FNQROC STD. DWG. S2038. EXTEND CONDUITS 300mm PAST THE EDGE OF FOOTPATH. FINAL LOCATION OF CONDUITS TO BE CONFIRMED ONCE ERGON PILLAR BOX LOCATIONS ARE AVAILABLE.
  - ALL 63 OD PE 100 PN 16 WATER MAINS LOCATED UNDER HARD STAND PARKING TO HAVE A uPVC ENVELOPING PIPE.
  - TEARDROP MARKERS AND BLUE RETRO REFLECTIVE MARKERS TO BE IN ACCORDANCE WITH FNQROC STD DWG S2010 (VERSION 4).

### LEGEND

	STAGE BOUNDARY
	EXISTING WATER
	EXISTING UNDER GROUND ELECTRICITY
	EXISTING ABOVE GROUND ELECTRICITY
	EXISTING TELSTRA\ TELSTRA OPTIC FIBRE CABLE
	FUTURE WATER SERVICE LOCATION (REFER NOTE 5)
	PROPOSED STORMWATER
	PROPOSED SEWER



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
H	08.12.15	PAM	RJC	RJC	DAH	PATHWAY REVISED
G	22.09.15	PAM	RJB	RJC	DAH	HYDRANTS AND SERVICE LOCATIONS REVISED



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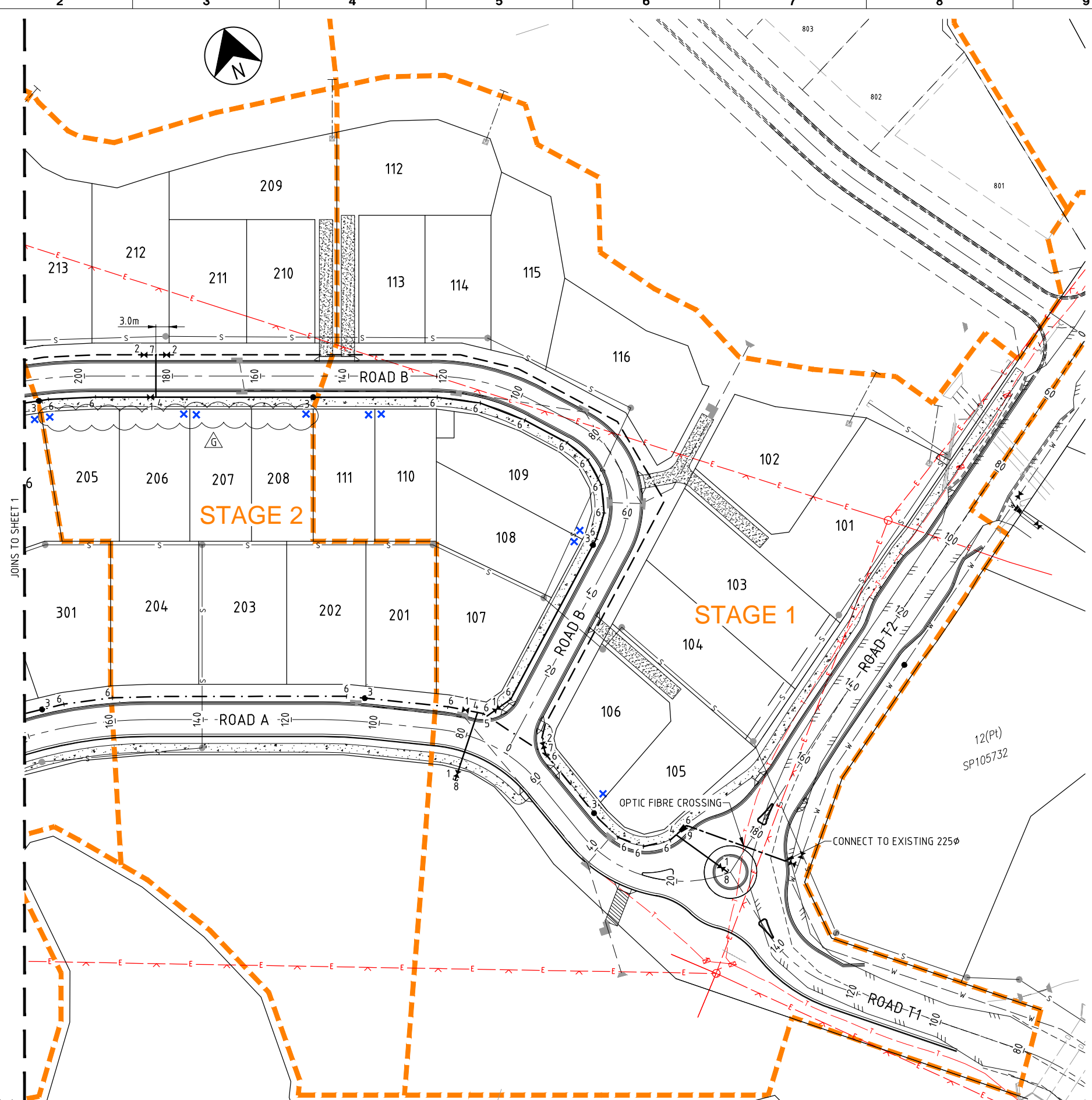
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.9.15	9.9.15

TITLE WATER RETICULATION SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-26	AMDT G



**NOTE**

1. FOR NOTES AND LEGEND REFER SHEET 1.



JOINS TO SHEET 1

STAGE 2

STAGE 1

12(Pt)  
SP105732

OPTIC FIBRE CROSSING

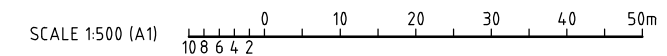
CONNECT TO EXISTING 225 $\phi$

ROAD T1

ROAD T2

ROAD B

ROAD A



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
G	29.06.15	PAM	RJB	RJC	DAH	WATER SERVICE LOCATIONS REVISED



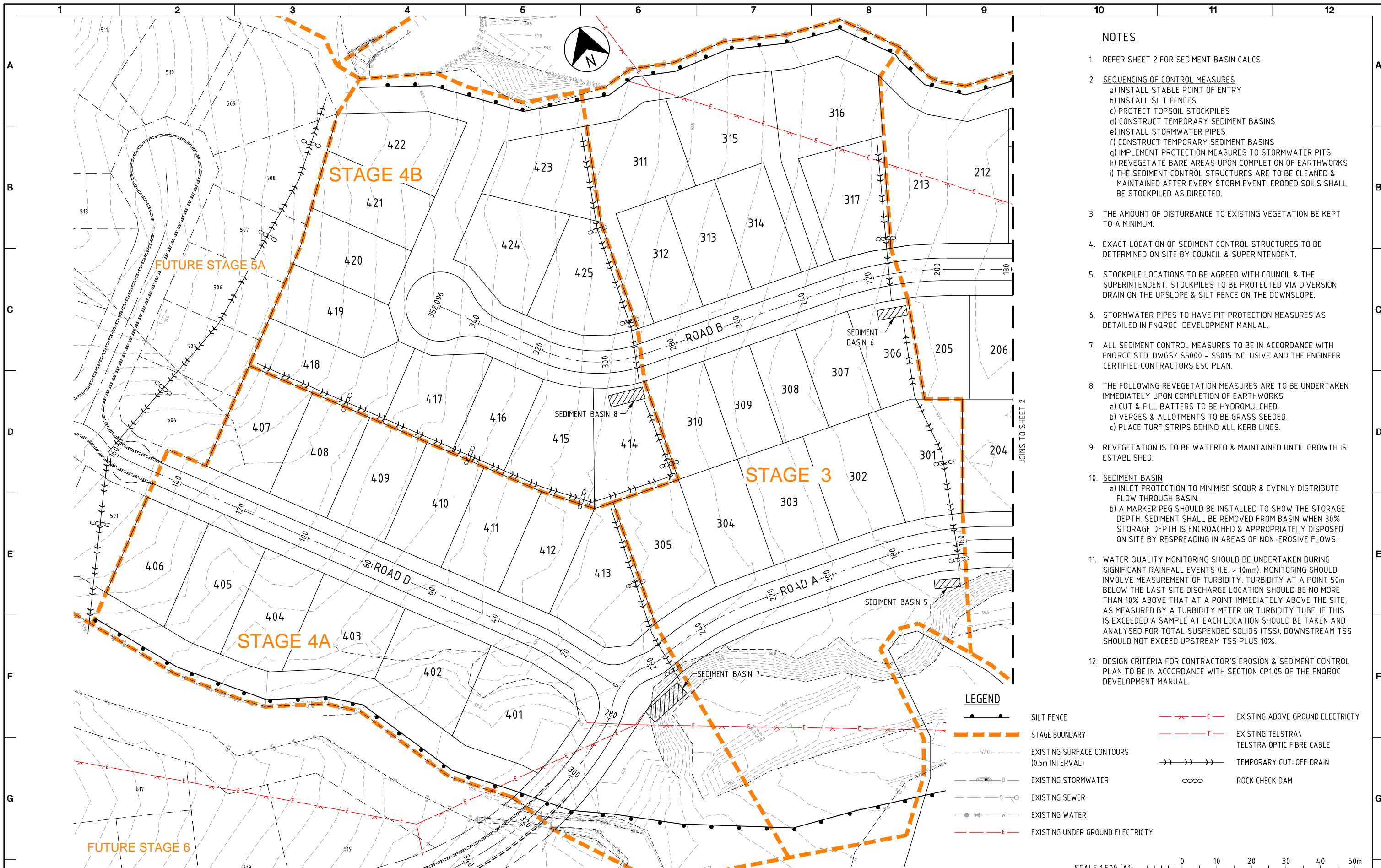
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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE WATER RETICULATION SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-27	AMDT G





**NOTES**

- REFER SHEET 2 FOR SEDIMENT BASIN CALCS.
- SEQUENCING OF CONTROL MEASURES**
  - INSTALL STABLE POINT OF ENTRY
  - INSTALL SILT FENCES
  - PROTECT TOPSOIL STOCKPILES
  - CONSTRUCT TEMPORARY SEDIMENT BASINS
  - INSTALL STORMWATER PIPES
  - CONSTRUCT TEMPORARY SEDIMENT BASINS
  - IMPLEMENT PROTECTION MEASURES TO STORMWATER PITS
  - REVEGETATE BARE AREAS UPON COMPLETION OF EARTHWORKS
  - THE SEDIMENT CONTROL STRUCTURES ARE TO BE CLEANED & MAINTAINED AFTER EVERY STORM EVENT. ERODED SOILS SHALL BE STOCKPILED AS DIRECTED.
- THE AMOUNT OF DISTURBANCE TO EXISTING VEGETATION BE KEPT TO A MINIMUM.
- EXACT LOCATION OF SEDIMENT CONTROL STRUCTURES TO BE DETERMINED ON SITE BY COUNCIL & SUPERINTENDENT.
- STOCKPILE LOCATIONS TO BE AGREED WITH COUNCIL & THE SUPERINTENDENT. STOCKPILES TO BE PROTECTED VIA DIVERSION DRAIN ON THE UPSLOPE & SILT FENCE ON THE DOWNSLOPE.
- STORMWATER PIPES TO HAVE PIT PROTECTION MEASURES AS DETAILED IN FNQROC DEVELOPMENT MANUAL.
- ALL SEDIMENT CONTROL MEASURES TO BE IN ACCORDANCE WITH FNQROC STD. DWGS/ S5000 - S5015 INCLUSIVE AND THE ENGINEER CERTIFIED CONTRACTORS ESC PLAN.
- THE FOLLOWING REVEGETATION MEASURES ARE TO BE UNDERTAKEN IMMEDIATELY UPON COMPLETION OF EARTHWORKS.
  - CUT & FILL BATTERS TO BE HYDROMULCHED.
  - VERGES & ALLOTMENTS TO BE GRASS SEEDDED.
  - PLACE TURF STRIPS BEHIND ALL KERB LINES.
- REVEGETATION IS TO BE WATERED & MAINTAINED UNTIL GROWTH IS ESTABLISHED.
- SEDIMENT BASIN**
  - INLET PROTECTION TO MINIMISE SCOUR & EVENLY DISTRIBUTE FLOW THROUGH BASIN.
  - A MARKER PEG SHOULD BE INSTALLED TO SHOW THE STORAGE DEPTH. SEDIMENT SHALL BE REMOVED FROM BASIN WHEN 30% STORAGE DEPTH IS ENCRACHED & APPROPRIATELY DISPOSED ON SITE BY RESPREADING IN AREAS OF NON-EROSIVE FLOWS.
- WATER QUALITY MONITORING SHOULD BE UNDERTAKEN DURING SIGNIFICANT RAINFALL EVENTS (I.E. > 10mm). MONITORING SHOULD INVOLVE MEASUREMENT OF TURBIDITY. TURBIDITY AT A POINT 50m BELOW THE LAST SITE DISCHARGE LOCATION SHOULD BE NO MORE THAN 10% ABOVE THAT AT A POINT IMMEDIATELY ABOVE THE SITE, AS MEASURED BY A TURBIDITY METER OR TURBIDITY TUBE. IF THIS IS EXCEEDED A SAMPLE AT EACH LOCATION SHOULD BE TAKEN AND ANALYSED FOR TOTAL SUSPENDED SOLIDS (TSS). DOWNSTREAM TSS SHOULD NOT EXCEED UPSTREAM TSS PLUS 10%.
- DESIGN CRITERIA FOR CONTRACTOR'S EROSION & SEDIMENT CONTROL PLAN TO BE IN ACCORDANCE WITH SECTION CP1.05 OF THE FNQROC DEVELOPMENT MANUAL.

**LEGEND**

- SILT FENCE
- STAGE BOUNDARY
- EXISTING SURFACE CONTOURS (0.5m INTERVAL)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING UNDER GROUND ELECTRICITY
- EXISTING ABOVE GROUND ELECTRICITY
- EXISTING TELSTRA/ TELSTRA OPTIC FIBRE CABLE
- TEMPORARY CUT-OFF DRAIN
- ROCK CHECK DAM

SCALE 1:500 (A1)  
10 8 6 4 2

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.4.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.4.10
DESIGNED PAM	DESIGN REVIEW RJB		

TITLE EROSION AND SEDIMENT CONTROL STRATEGY PHASE 1 - TOPSOIL STRIPPING SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-28	AMDT C



**SEDIMENT BASIN CALCS**

EXPECTED LIFE OF EROSION CONTROL MEASURES  
0-6 MONTHS.

DESIGN ARI = 10 YEAR, 6 HOUR STORM

**SEDIMENT BASIN 1**

AREA = 0.95ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.13m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 37.82m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 10.65m LONG X 3.55m WIDE X 0.81m DEEP

**SEDIMENT BASIN 5**

AREA = 0.46ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.07m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 20.70m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 7.41m LONG X 2.47m WIDE X 0.81m DEEP

**SEDIMENT BASIN 2**

AREA = 0.28ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.13m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 11.15m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 5.78m LONG X 1.93m WIDE X 0.81m DEEP

**SEDIMENT BASIN 6**

AREA = 0.59ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.07m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 23.49m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 8.39m LONG X 2.80m WIDE X 0.81m DEEP

**SEDIMENT BASIN 3**

AREA = 0.35ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.10m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 13.93m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 6.47m LONG X 2.16m WIDE X 0.81m DEEP

**SEDIMENT BASIN 7**

AREA = 1.30ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.07m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 51.75m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 12.46m LONG X 4.15m WIDE X 0.81m DEEP

**SEDIMENT BASIN 4**

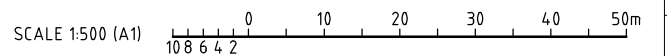
AREA = 0.52ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.07m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 20.70m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 7.88m LONG X 2.63m WIDE X 0.81m DEEP

**SEDIMENT BASIN 8**

AREA = 0.87ha  
 I = 32.24mm/hr  
 C = 0.7  
 Q = 0.07m<sup>3</sup>/s  
 TARGET PARTICLE SIZE = 0.05mm  
 SETTLING VELOCITY = 0.0019m/s  
 THEREFORE, BASIN AREA = 635m<sup>2</sup>/m<sup>3</sup>/s  
 BASIN AREA = 34.63m<sup>2</sup>  
 LENGTH:WIDTH RATIO = 3:1  
 10.19m LONG X 3.40m WIDE X 0.81m DEEP

**NOTE**

- FOR LEGEND REFER SHEET 1.
- FOR NOTES REFER PHASE 1 SHEET 1.



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDBOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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DESIGNED PAM	DESIGN REVIEW RJB		

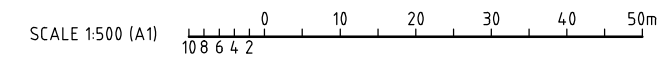
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SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-29	AMDT D





LEGEND	
	SILT FENCE
	FALL OF LOTS
	BATTER
	STAGE BOUNDARY
	DESIGN SURFACE CONTOURS (0.2m INTERVAL)
	EXISTING SURFACE CONTOURS (0.5m INTERVAL)
	EXISTING STORMWATER
	EXISTING SEWER
	EXISTING WATER
	EXISTING UNDER GROUND ELECTRICITY
	EXISTING ABOVE GROUND ELECTRICITY
	EXISTING TELSTRA TELSTRA OPTIC FIBRE CABLE
	ROCK CHECK DAM
	EASEMENT BOUNDARY
	TEMPORARY CUT-OFF DRAIN
	BATTER BUND
	VISQUEEN LINED BATTER CHUTE

JOINS TO SHEET 2



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
E	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 EARTHWORKS REVISED
D	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



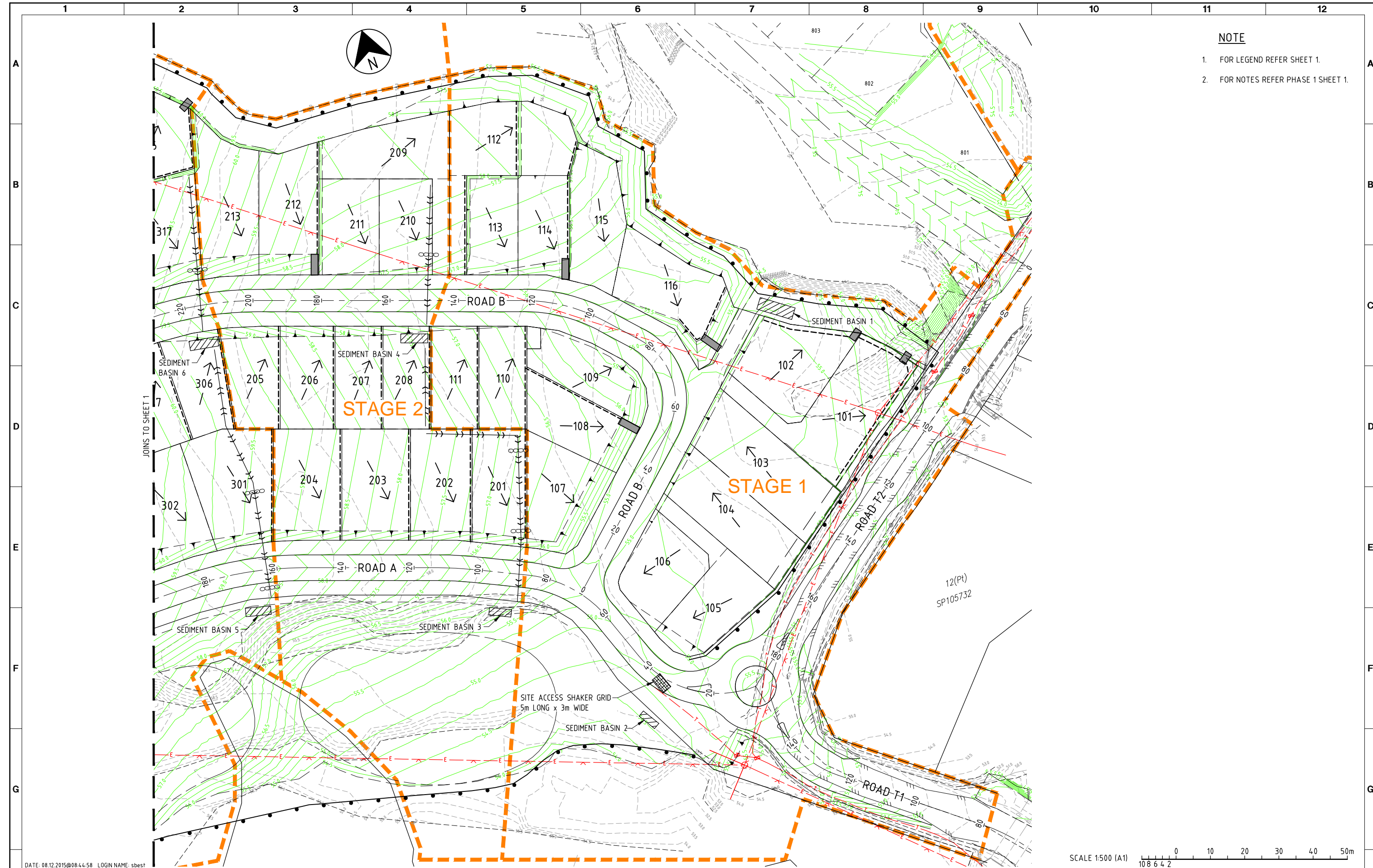
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DESIGNED PAM	DESIGN REVIEW RJB		

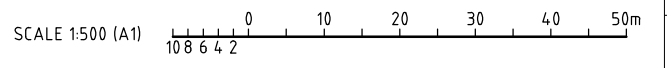
TITLE EROSION AND SEDIMENT CONTROL STRATEGY PHASE 2 - EARTHWORKS SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-30	AMDT E





**NOTE**  
 1. FOR LEGEND REFER SHEET 1.  
 2. FOR NOTES REFER PHASE 1 SHEET 1.

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN 9.9.10	APPROVED PROJECT DIRECTOR D.A.HILL 9.9.10
DESIGNED PAM	DESIGN REVIEW RJB		APPROVED No.

TITLE EROSION AND SEDIMENT CONTROL STRATEGY PHASE 2 - EARTHWORKS SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-31	AMDT E





- LEGEND**
- SILT FENCE
  - PIT PROTECTION MEASURES
  - STORMWATER DRAINAGE PIPE
  - KERB INLET PIT
  - HEADWALL
  - GROSS POLLUTANT TRAP
  - FALL OF LOTS
  - BATTER
  - STAGE BOUNDARY
  - DESIGN SURFACE CONTOURS (0.2m INTERVAL)
  - EXISTING SURFACE CONTOURS (0.5m INTERVAL)
  - EXISTING STORMWATER
  - EXISTING SEWER
  - EXISTING WATER
  - EXISTING UNDER GROUND ELECTRICITY
  - EXISTING ABOVE GROUND ELECTRICITY
  - EXISTING TELSTRA / TELSTRA OPTIC FIBRE CABLE
  - TIMBER FENCE
  - GROUDED STONE PITCHING SCOUR PROTECTION (10m<sup>2</sup> NOMINAL)
  - ROCK CHECK DAM
  - EASEMENT BOUNDARY
  - TEMPORARY CUT-OFF DRAIN
  - BATTER BUND
  - VISQUEEN LINED BATTER CHUTE
  - RETAINING WALL
  - TURF STRIPS

SCALE 1:500 (A1)

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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
F	08.12.15	PAM	RJC	RJC	DAH	STAGE 4 EARTHWORKS REVISED
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
C	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
B	21.05.10	PAM	RJB	RJC	DAH	PATHWAY REVISED
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



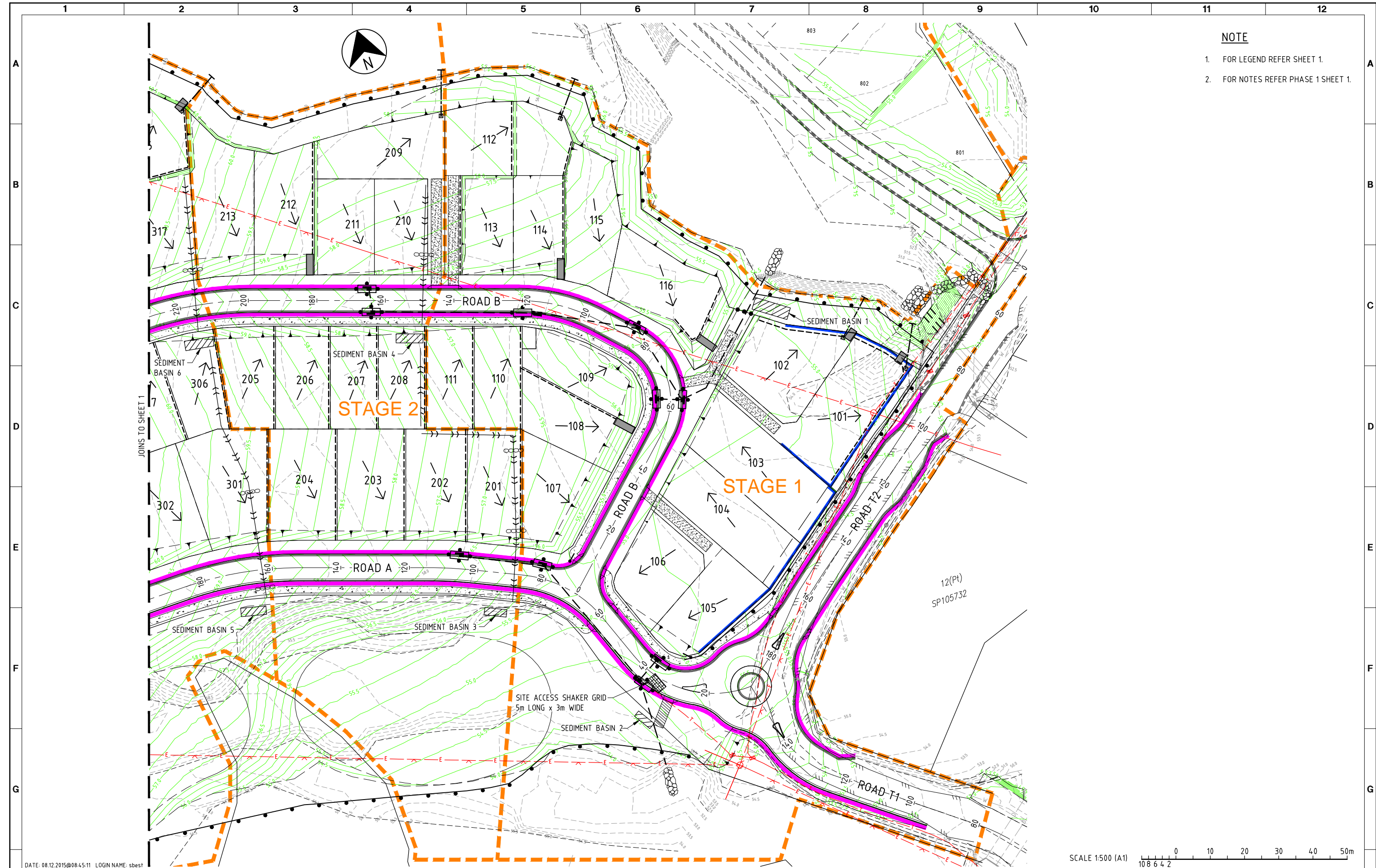
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PROJECT THE OUTLOOK STAGES 1-4			
DRAFTER SAB	DRAFTING CHECK PAM	REVIEWED PROJECT MANAGER R.J.CARMAN	APPROVED PROJECT DIRECTOR D.A.HILL
DESIGNED PAM	DESIGN REVIEW RJB	9.14.10	9.14.10

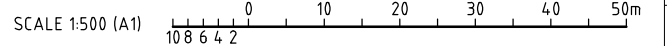
TITLE EROSION AND SEDIMENT CONTROL STRATEGY PHASE 3 - ROADWORKS SHEET 1 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-32	AMDT F





- NOTE**
- FOR LEGEND REFER SHEET 1.
  - FOR NOTES REFER PHASE 1 SHEET 1.

JOINS TO SHEET 1



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No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
E	28.07.14	PME	RJC	RJC	DAH	GRADING AMENDED
D	06.06.14	RJB	RJC	RJC	DAH	ROUNDABOUT AND LOTS 104-106 REVISED
C	23.05.14	RJB	RJC	RJC	DAH	LAYOUT REVISED
B	14.09.10	LAJ	LAJ	RJC	DAH	AMEND PROJECT NAME
A	9.04.10	PAM	RJB	RJC	DAH	INITIAL ISSUE



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DESIGNED PAM	DESIGN REVIEW RJB		

TITLE EROSION AND SEDIMENT CONTROL STRATEGY PHASE 3 - ROADWORKS SHEET 2 OF 2			
SCALE 1:500(A1)	SKM PROJECT No CF21311	DRAWING No CF21311-C-33	AMDT E