

DEFENCE ROAD UPGRADE

CH36,172 TO CH58,184

Note: Limits of works for Tender CH36172 - CH58,184



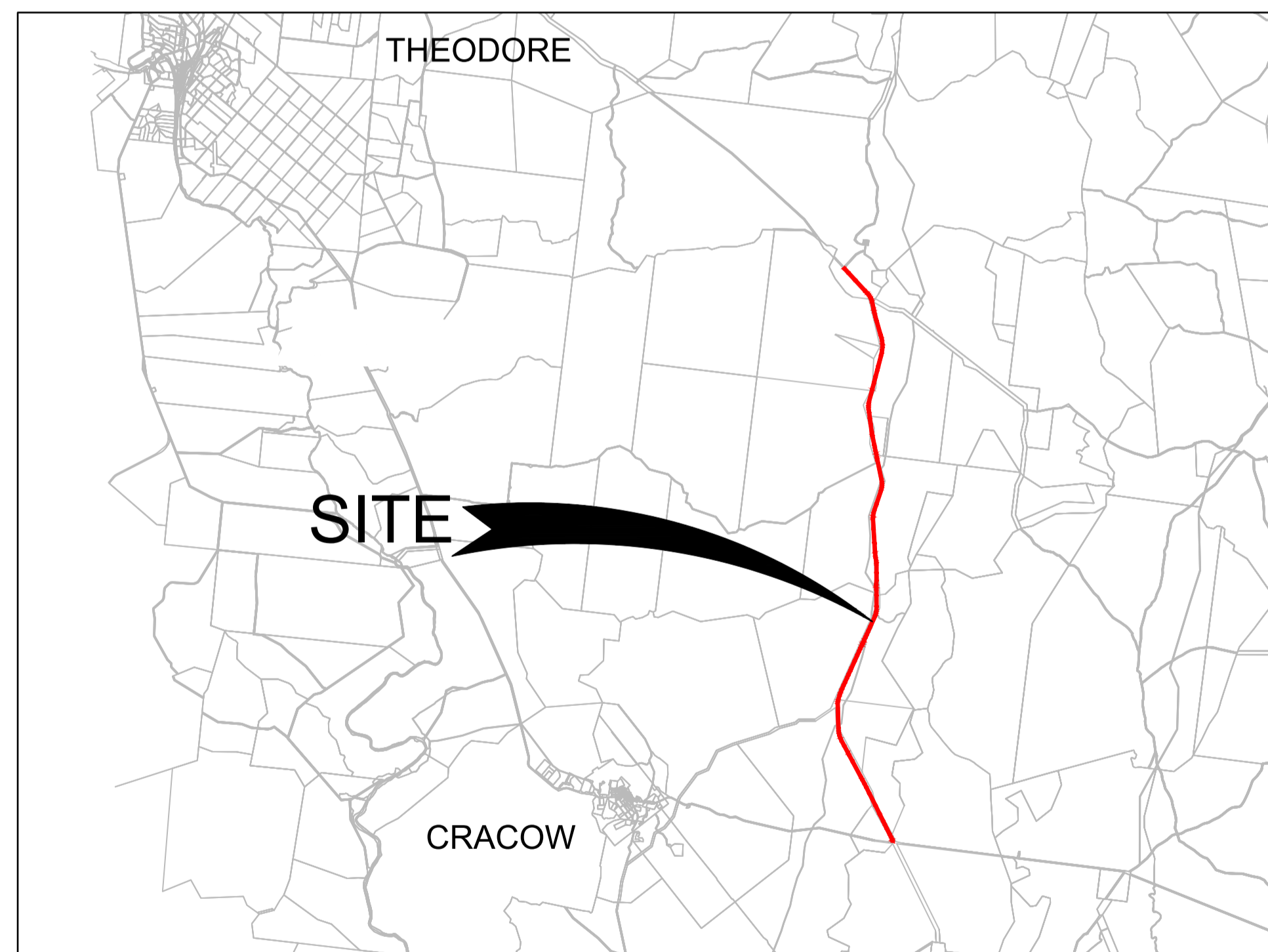
ARO

FOR

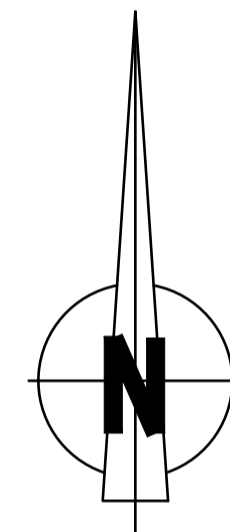
BANANA SHIRE



ARO INDUSTRIES DRAWINGS



LOCALITY PLAN
NOT TO SCALE



ARO0412-C00	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE	ARO0412-C59	ANNOTATED CROSS SECTIONS - SHEET 10 OF 64
ARO0412-C01	TYPICAL CROSS SECTIONS AND ROAD SETOUT DETAILS	ARO0412-C60	ANNOTATED CROSS SECTIONS - SHEET 11 OF 64
ARO0412-C02	WORKING PLAN - SHEET 1 OF 47	ARO0412-C61	ANNOTATED CROSS SECTIONS - SHEET 12 OF 64
ARO0412-C03	WORKING PLAN - SHEET 2 OF 47	ARO0412-C62	ANNOTATED CROSS SECTIONS - SHEET 13 OF 64
ARO0412-C04	WORKING PLAN - SHEET 3 OF 47	ARO0412-C63	ANNOTATED CROSS SECTIONS - SHEET 14 OF 64
ARO0412-C05	WORKING PLAN - SHEET 4 OF 47	ARO0412-C64	ANNOTATED CROSS SECTIONS - SHEET 15 OF 64
ARO0412-C06	WORKING PLAN - SHEET 5 OF 47	ARO0412-C65	ANNOTATED CROSS SECTIONS - SHEET 16 OF 64
ARO0412-C07	WORKING PLAN - SHEET 6 OF 47	ARO0412-C66	ANNOTATED CROSS SECTIONS - SHEET 17 OF 64
ARO0412-C08	WORKING PLAN - SHEET 7 OF 47	ARO0412-C67	ANNOTATED CROSS SECTIONS - SHEET 18 OF 64
ARO0412-C09	WORKING PLAN - SHEET 8 OF 47	ARO0412-C68	ANNOTATED CROSS SECTIONS - SHEET 19 OF 64
ARO0412-C10	WORKING PLAN - SHEET 9 OF 47	ARO0412-C69	ANNOTATED CROSS SECTIONS - SHEET 20 OF 64
ARO0412-C11	WORKING PLAN - SHEET 10 OF 47	ARO0412-C70	ANNOTATED CROSS SECTIONS - SHEET 21 OF 64
ARO0412-C12	WORKING PLAN - SHEET 11 OF 47	ARO0412-C71	ANNOTATED CROSS SECTIONS - SHEET 22 OF 64
ARO0412-C13	WORKING PLAN - SHEET 12 OF 47	ARO0412-C72	ANNOTATED CROSS SECTIONS - SHEET 23 OF 64
ARO0412-C14	WORKING PLAN - SHEET 13 OF 47	ARO0412-C73	ANNOTATED CROSS SECTIONS - SHEET 24 OF 64
ARO0412-C15	WORKING PLAN - SHEET 14 OF 47	ARO0412-C74	ANNOTATED CROSS SECTIONS - SHEET 25 OF 64
ARO0412-C16	WORKING PLAN - SHEET 15 OF 47	ARO0412-C75	ANNOTATED CROSS SECTIONS - SHEET 26 OF 64
ARO0412-C17	WORKING PLAN - SHEET 16 OF 47	ARO0412-C76	ANNOTATED CROSS SECTIONS - SHEET 27 OF 64
ARO0412-C18	WORKING PLAN - SHEET 17 OF 47	ARO0412-C77	ANNOTATED CROSS SECTIONS - SHEET 28 OF 64
ARO0412-C19	WORKING PLAN - SHEET 18 OF 47	ARO0412-C78	ANNOTATED CROSS SECTIONS - SHEET 29 OF 64
ARO0412-C20	WORKING PLAN - SHEET 19 OF 47	ARO0412-C79	ANNOTATED CROSS SECTIONS - SHEET 30 OF 64
ARO0412-C21	WORKING PLAN - SHEET 20 OF 47	ARO0412-C80	ANNOTATED CROSS SECTIONS - SHEET 31 OF 64
ARO0412-C22	WORKING PLAN - SHEET 21 OF 47	ARO0412-C81	ANNOTATED CROSS SECTIONS - SHEET 32 OF 64
ARO0412-C23	WORKING PLAN - SHEET 22 OF 47	ARO0412-C82	ANNOTATED CROSS SECTIONS - SHEET 33 OF 64
ARO0412-C24	WORKING PLAN - SHEET 23 OF 47	ARO0412-C83	ANNOTATED CROSS SECTIONS - SHEET 34 OF 64
ARO0412-C25	WORKING PLAN - SHEET 24 OF 47	ARO0412-C84	ANNOTATED CROSS SECTIONS - SHEET 35 OF 64
ARO0412-C26	WORKING PLAN - SHEET 25 OF 47	ARO0412-C85	ANNOTATED CROSS SECTIONS - SHEET 36 OF 64
ARO0412-C27	WORKING PLAN - SHEET 26 OF 47	ARO0412-C86	ANNOTATED CROSS SECTIONS - SHEET 37 OF 64
ARO0412-C28	WORKING PLAN - SHEET 27 OF 47	ARO0412-C87	ANNOTATED CROSS SECTIONS - SHEET 38 OF 64
ARO0412-C29	WORKING PLAN - SHEET 28 OF 47	ARO0412-C88	ANNOTATED CROSS SECTIONS - SHEET 39 OF 64
ARO0412-C30	WORKING PLAN - SHEET 29 OF 47	ARO0412-C89	ANNOTATED CROSS SECTIONS - SHEET 40 OF 64
ARO0412-C31	WORKING PLAN - SHEET 30 OF 47	ARO0412-C90	ANNOTATED CROSS SECTIONS - SHEET 41 OF 64
ARO0412-C32	WORKING PLAN - SHEET 31 OF 47	ARO0412-C91	ANNOTATED CROSS SECTIONS - SHEET 42 OF 64
ARO0412-C33	WORKING PLAN - SHEET 32 OF 47	ARO0412-C92	ANNOTATED CROSS SECTIONS - SHEET 43 OF 64
ARO0412-C34	WORKING PLAN - SHEET 33 OF 47	ARO0412-C93	ANNOTATED CROSS SECTIONS - SHEET 44 OF 64
ARO0412-C35	WORKING PLAN - SHEET 34 OF 47	ARO0412-C94	ANNOTATED CROSS SECTIONS - SHEET 45 OF 64
ARO0412-C36	WORKING PLAN - SHEET 35 OF 47	ARO0412-C95	ANNOTATED CROSS SECTIONS - SHEET 46 OF 64
ARO0412-C37	WORKING PLAN - SHEET 36 OF 47	ARO0412-C96	ANNOTATED CROSS SECTIONS - SHEET 47 OF 64
ARO0412-C38	WORKING PLAN - SHEET 37 OF 47	ARO0412-C97	ANNOTATED CROSS SECTIONS - SHEET 48 OF 64
ARO0412-C39	WORKING PLAN - SHEET 38 OF 47	ARO0412-C98	ANNOTATED CROSS SECTIONS - SHEET 49 OF 64
ARO0412-C40	WORKING PLAN - SHEET 39 OF 47	ARO0412-C99	ANNOTATED CROSS SECTIONS - SHEET 50 OF 64
ARO0412-C41	WORKING PLAN - SHEET 40 OF 47	ARO0412-C100	ANNOTATED CROSS SECTIONS - SHEET 51 OF 64
ARO0412-C42	WORKING PLAN - SHEET 41 OF 47	ARO0412-C101	ANNOTATED CROSS SECTIONS - SHEET 52 OF 64
ARO0412-C43	WORKING PLAN - SHEET 42 OF 47	ARO0412-C102	ANNOTATED CROSS SECTIONS - SHEET 53 OF 64
ARO0412-C44	WORKING PLAN - SHEET 43 OF 47	ARO0412-C103	ANNOTATED CROSS SECTIONS - SHEET 54 OF 64
ARO0412-C45	WORKING PLAN - SHEET 44 OF 47	ARO0412-C104	ANNOTATED CROSS SECTIONS - SHEET 55 OF 64
ARO0412-C46	WORKING PLAN - SHEET 45 OF 47	ARO0412-C105	ANNOTATED CROSS SECTIONS - SHEET 56 OF 64
ARO0412-C47	WORKING PLAN - SHEET 46 OF 47	ARO0412-C106	ANNOTATED CROSS SECTIONS - SHEET 57 OF 64
ARO0412-C48	WORKING PLAN - SHEET 47 OF 47	ARO0412-C107	ANNOTATED CROSS SECTIONS - SHEET 58 OF 64
ARO0412-C50	ANNOTATED CROSS SECTIONS - SHEET 1 OF 64	ARO0412-C108	ANNOTATED CROSS SECTIONS - SHEET 59 OF 64
ARO0412-C51	ANNOTATED CROSS SECTIONS - SHEET 2 OF 64	ARO0412-C109	ANNOTATED CROSS SECTIONS - SHEET 60 OF 64
ARO0412-C52	ANNOTATED CROSS SECTIONS - SHEET 3 OF 64	ARO0412-C110	ANNOTATED CROSS SECTIONS - SHEET 61 OF 64
ARO0412-C53	ANNOTATED CROSS SECTIONS - SHEET 4 OF 64	ARO0412-C111	ANNOTATED CROSS SECTIONS - SHEET 62 OF 64
ARO0412-C54	ANNOTATED CROSS SECTIONS - SHEET 5 OF 64	ARO0412-C112	ANNOTATED CROSS SECTIONS - SHEET 63 OF 64
ARO0412-C55	ANNOTATED CROSS SECTIONS - SHEET 6 OF 64	ARO0412-C113	ANNOTATED CROSS SECTIONS - SHEET 64 OF 64
ARO0412-C56	ANNOTATED CROSS SECTIONS - SHEET 7 OF 64		
ARO0412-C57	ANNOTATED CROSS SECTIONS - SHEET 8 OF 64		
ARO0412-C58	ANNOTATED CROSS SECTIONS - SHEET 9 OF 64		

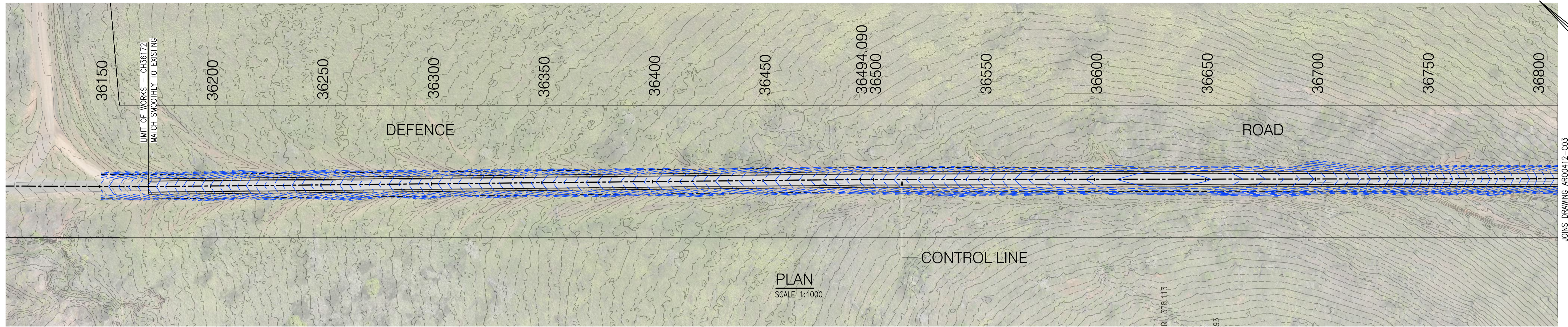
TENDER ISSUE ONLY

DEFENCE ROAD CONTROL LINE SETOUT

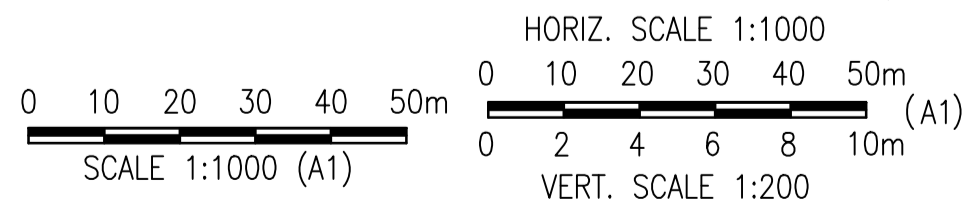
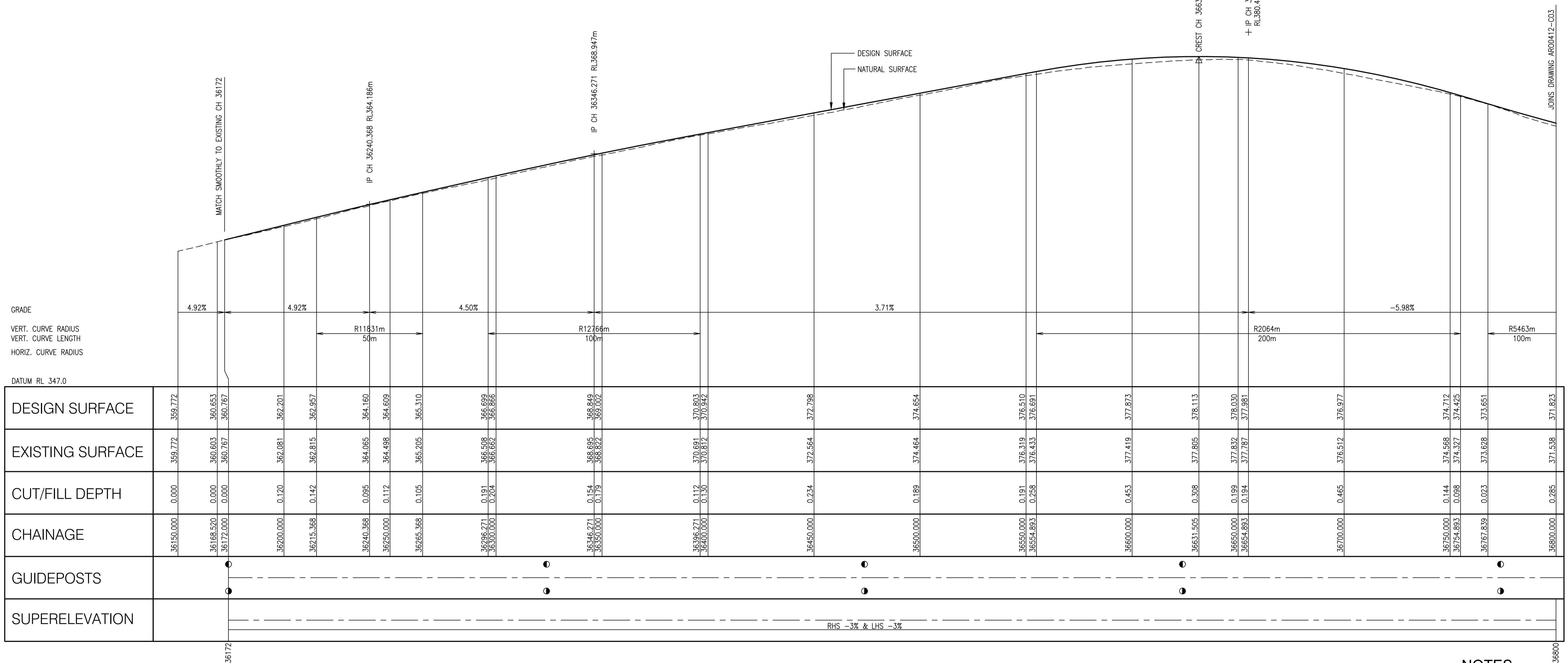
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	36083.612	239859.053	7227583.470	137°36'46.54"			
IP 2	36172.000	239918.639	7227518.186	136°48'55.27"			
IP 3	36494.090	240139.062	7227283.333	137°19'09.20"			
IP 4	37028.324	240501.226	7226890.595	137°17'47.97"			
IP 5	37767.417	241002.481	7226347.454	137°41'46.16"			
IP 6	37792.464	241019.338	7226328.930	137°08'11.37"			
IP 7	37937.707	241118.141	7226222.470	136°08'45.85"			
TC	38005.069	241164.810	7226173.895	136°08'45.85"			
CT	38346.802	241346.371	7225887.098	159°10'52.37"	R = 850.000	341.733	23°02'06.52"
TC	38377.469	241357.270	7225858.433	159°10'52.37"			
CT	38516.019	241395.764	7225725.498	168°31'13.52"	R = 850.000	138.550	9°20'21.15"
TC	38842.252	241460.690	7225405.790	168°31'13.52"			
CT	38914.090	241476.249	7225335.661	166°27'44.67"	R = -2000.000	71.838	2°03'28.84"
TC	38986.629	241493.229	7225265.138	166°27'44.67"			
CT	39066.361	241510.654	7225187.337	168°17'23.02"	R = 2500.000	79.732	1°49'38.35"
TC	39165.389	241530.753	7225090.369	168°17'23.02"			
CT	39308.020	241565.202	7224952.000	163°44'58.80"	R = -1800.000	142.630	4°32'24.22"
IP 13	39521.107	241624.831	7224747.426				
IP 14	40297.101	241834.960	7224000.424				
TC	40488.214	241888.994	7223817.108	163°34'35.70"	R = 800.000	107.325	7°41'11.74"
CT	40595.539	241912.352	7223712.438	171°15'47.44"	R = 1500.000	146.425	5°35'34.82"
TC	40630.729	241917.698	7223677.657	171°15'47.44"			
CT	40777.154	241932.845	7223532.076	176°51'22.26"	R = 1200.000	263.013	12°33'28.68"
TC	40840.364	241936.312	7223468.961	176°51'22.26"			
CT	41103.377	241921.956	7223206.867	189°24'50.94"	R = 1500.000	138.882	5°18'17.62"
TC	41272.668	241894.265	7223039.856	189°24'50.94"			
CT	41411.550	241865.243	7222904.091	194°43'08.56"			
IP 19	42013.466	241712.308	7222321.928	194°29'10.98"			
IP 20	42214.566	241662.003	7222127.221	194°42'58.67"			
IP 21	42565.316	241572.901	7221787.978	194°42'43.10"			
IP 22	42907.216	241486.072	7221457.287	194°34'44.75"			
IP 23	43248.067	241400.274	7221127.411	194°36'42.12"			
IP 24	43290.364	241389.604	7221086.482	194°45'43.14"			
TC	43940.055	241224.060	7220458.236	194°45'43.14"	R = -600.000	87.851	8°23'20.80"
CT	44027.905	241207.964	7220371.952	186°22'22.35"	R = -1150.000	285.199	14°12'33.51"
TC	44060.787	241204.314	7220339.274	186°22'22.35"			
IP 26	44203.386	241188.404	7220196.825				
CT	44345.986	241207.947	7220054.828	172°09'48.84"			
IP 27	44525.927	241232.481	7219876.568	172°59'53.84"			
IP 28	44819.885	241268.314	7219584.802	172°09'51.48"			
IP 29	45131.748	241310.831	7219275.851	172°30'47.73"			
TC	45558.691	241366.461	7218852.547	172°30'47.73"	R = -1200.000	95.686	4°34'07.13"
IP 30	45606.534	241372.698	7218805.087				
CT	45654.377	241382.695	7218758.275	167°56'40.59"			
IP 31	45761.722	241405.115	7218653.296	168°31'34.92"			
IP 32	46257.949	241503.823	7218166.986	168°56'09.65"			
IP 33	46395.215	241530.165	7218032.271	168°02'57.64"			
IP 34	46567.497	241565.840	7217863.724	167°18'09.34"			
TC	46675.541	241589.588	7217758.322	167°18'09.34"	R = 3000.000	45.495	0°52'08.02"
CT	46721.036	241599.251	7217713.865	168°10'17.35"	R = 850.000	115.579	7°47'26.89"
IP 36	46784.226	241612.204	7217652.017	168°18'52.66"			
CC	46899.805	241627.857	7217537.593	176°06'19.55"	R = -300.000	44.516	8°30'07.06"
CT	46944.321	241634.159	7217493.567	167°36'12.49"	R = -200.000	22.747	6°30'59.03"
TC	46964.459	241638.482	7217473.898	167°36'12.49"			
CT	46987.205	241644.617	7217452.007	161°05'13.46"	R = 550.000	69.095	7°11'52.31"
TC	47012.432	241652.794	7217428.142	161°05'13.46"			
CT	47081.527	241671.030	7217361.545	168°17'05.78"	R = 1150.000	614.318	30°36'24.56"
TC	48149.989	241887.976	7216315.339	168°17'05.78"			
CT	48764.307	241849.982	7215709.489	198°53'30.34"	R = -1400.000	302.616	12°23'05.06"
TC	49816.042	241509.154	7214714.511	198°56'43.64"			
CT	50118.658	241442.482	7214419.935	188°33'38.58"	R = -800.000	142.457	10°12'09.94"
TC	50167.325	241436.921	7214371.587	188°33'38.58"			
CT	50309.782	241433.298	7214229.364	176°21'28.64"			
IP 45	50832.820	241466.523	7213707.382	176°25'13.01"			
IP 46	51564.896	241512.232	7212976.734	176°28'44.69"			
IP 47	52030.739	241540.840	7212511.771	176°22'10.30"			

DEFENCE ROAD CONTROL LINE SETOUT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	52086.692	241543.758	7212455.895	177°39'06.80"	R = 2500.000	55.954	1°16'56.50"
TC	52109.884	241544.708	7212432.722	177°39'06.80"			
CT	52256.874	241559.699	7212286.591	170°38'01.04"	R = -1200.000	146.990	7°01'05.76"
TC	52538.866	241605.860	7212008.403	170°32'58.27"	R = 1200.000	202.969	9°41'27.72"
CT	52741.834	241622.136	7211806.331	180°14'25.99"	R = 1500.000	184.787	7°03'30.02"
TC	53565.559	241621.636	7210982.612	179°49'25.82"	R = -550.000	136.313	14°12'00.86"
CT	53750.345	241610.835	7210798.259	186°52'55.84"	R = 750.000	97.674	7°27'42.27"
TC	53781.343	241607.121	7210767.484	186°52'55.84"			
CT	53917.655	241607.638	7210631.521	172°40'54.98"	R = 850.000	363.157	24°28'45.40"
TC	53972.870	241614.671	7210576.757	172°40'54.98"			
CT	54070.544	241620.778	7210479.343	180°08'37.24"	R = -2500.000	77.790	1°46'58.14"
IP 56	54358.093	241620.057	7210191.795	180°02'39.59"			
IP 57	54937.656	241619.608	7209612.232	180°05'07.29"	R = 500.000	136.362	15°37'33.34"
TC	55115.335	241619.344	7209434.553	180°05'07.29"			
CT	55478.492	241542.413	7209082.458	204°33'52.69"	R = -500.000	57.781	6°37'16.32"
IP 59	56095.762	241285.802	7208521.056	204°26'53.34"			
IP 60	56356.398	241177.933	7208283.789	204°42'09.64"			
IP 61	56541.591	241100.539	7208115.543	204°32'30.28"			
IP 62	56697.074	241035.958	7207974.107	204°32'16.86"			
TC	56811.069	240988.617	7207870.408	204°32'16.86"			
CT	56888.859	240957.417	7207799.152	202°45'18.72"	R = -1500.000	83.561	3°11'30.43"
TC	56910.132	240949.188	7207779.535	202°45'18.72"			
CC	56971.439	240928.996	7207721.689	195°43'47.54"	R = -2000.000	80.009	2°17'31.55"
CT	57107.801	240874.697	7207597.064	211°21'20.87"	R = -650.000	238.411	21°00'54.98"
IP 66	57150.483	240852.488	7207560.616	211°05'24.06"			
IP 67	57179.374	240837.552	7207535.848	204°28'07.74"	R = -1550.000	504.031	18°37'53.41"
CT	57208.264	240825.573	7207509.523	204°28'07.74"			
IP 68	57339.961	240771.024	7207389.654	204°34'44.26"	R = -1000.000	139.922	8°01'00.92"
IP 69	57513.685	240698.764	7207231.671	204°13'20.10"	R = 3000.000	72.332	1°22'53.18"
IP 70	57747.937	240602.656	7207018.043	204°30'51.96"	R = -3000.000	72.736	1°23'20.95"
IP 71	58070.883	240468.658	7206724.208	204°21'07.76"			
IP 72	58498.580	240292.300	7206334.564	204°33'24.11"			
IP 73	58638.649	240234.088	7206207.164	204°29'10.94"			
IP 74	58870.639	240137.934	7205996.039	204°26'15.58"			
IP 75	59068.520	240056.070	7205815.886	204°27'03.98"			
IP 76	59319.942	239952.002	7205587.013	205°00'42.89"			
IP 77	59498.883	239876.344	7205424.853	204°01'39.42"			
TC	59673.123	239805.398	7205265.711	204°01'39.42"			
CT	59756.684	239773.517	7205188.483	200°50'08.99"	R = -2000.000	80.009	2°17'31.55"
TC	59885.640	239727.648	7205067.960	200°50'08.99"			
CT	59965.650	239700.693	7204992.633	198°32'37.44"	R = -650.000	238.411	21°00'54.98"
TC	60269.053	239601.375	7204705.956	199°25'57.59"			
CT	60507.463	239564.594	7204471.750	178°25'02.61"	R = -1550.000	504.031	18°37'53.41"
TC	61834.675	239601.249	7203145.044	178°25'02.61"			
CT	62338.706	239696.126	7202652.282	159°47'09.20"	R = -1000.000	139.922	8°01'00.92"
TC	62388.974	239713.495	7202605.110	159°47'09.20"			
CT	62528.896	239770.855	7202477.611	151°46'08.28"	R = 3000.000	72.332	1°22'53.18"
IP 84	62828.859	239912.746	7202213.329	153°03'09.48"			
TC	63208.221	240092.765	7201879.400	151°40'16.30"	R = -3000.000	72.736	1°23'20.95"
CT	63280.553	240126.318	7201815.323	153°03'09.48"			
TC	63334.911	240150.952	7201766.867	153°03'09.48"			
CT	63407.647	240184.697	7201702.434	151°39'48.52"			
IP 87	63734.887	240340.021	7201414.406	151°55'17.75"			
IP 88	64727.958	240807.439	7200538.215	151°27'14.93"			
IP 89	64857.898	240869.532	7200424.071	152°06'59.73"			
IP 90	65112.671	240988.683	7200198.877	153°05'16.90"			
IP 91	65331.974	241087.944	7200003.324	153°06'23.00"			
IP 92	65680.577	241245.629	7199692.423	153°26'48.03"			
IP 93	66390.346	241562.918	7199057.522	153°41'16.23"			
IP 94	6						



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT

NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



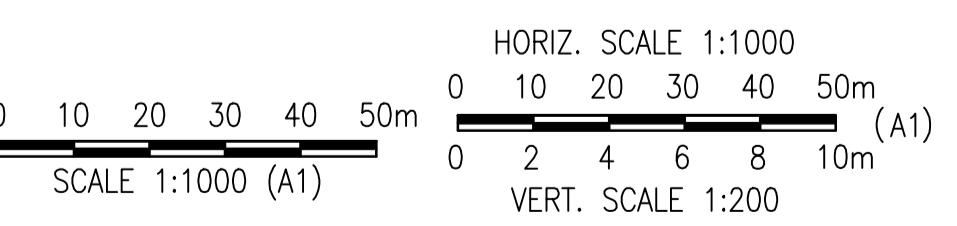
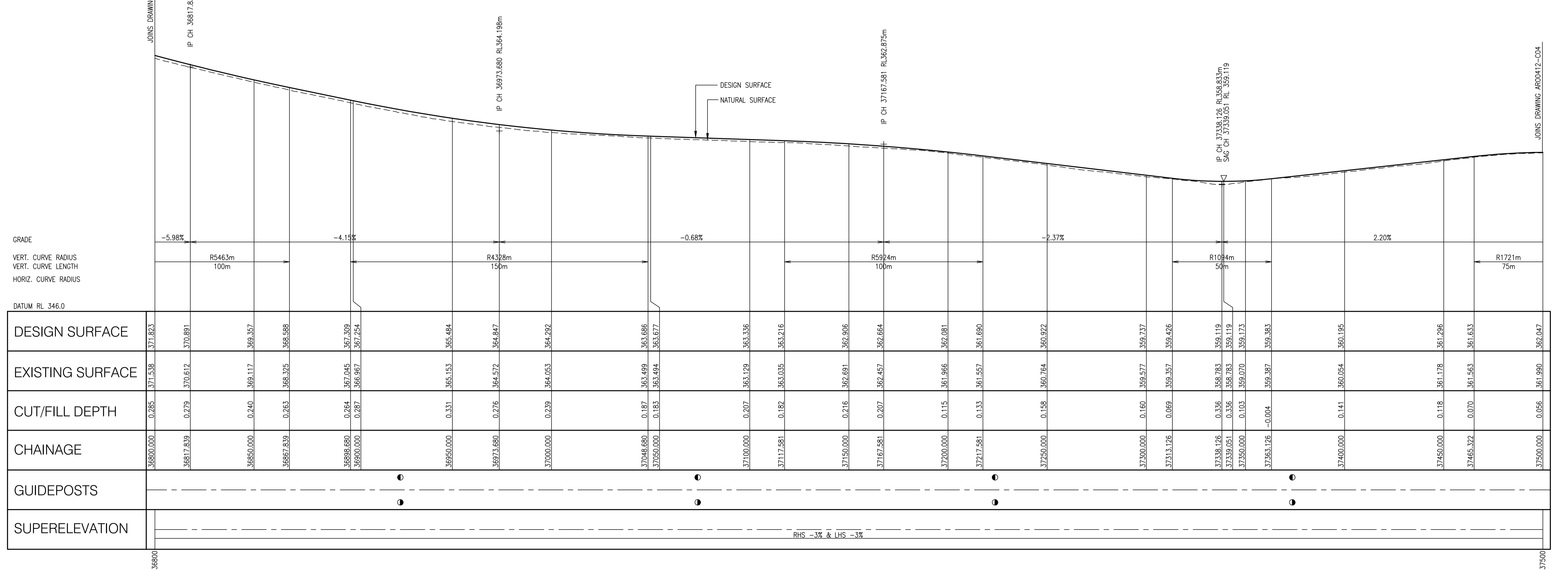
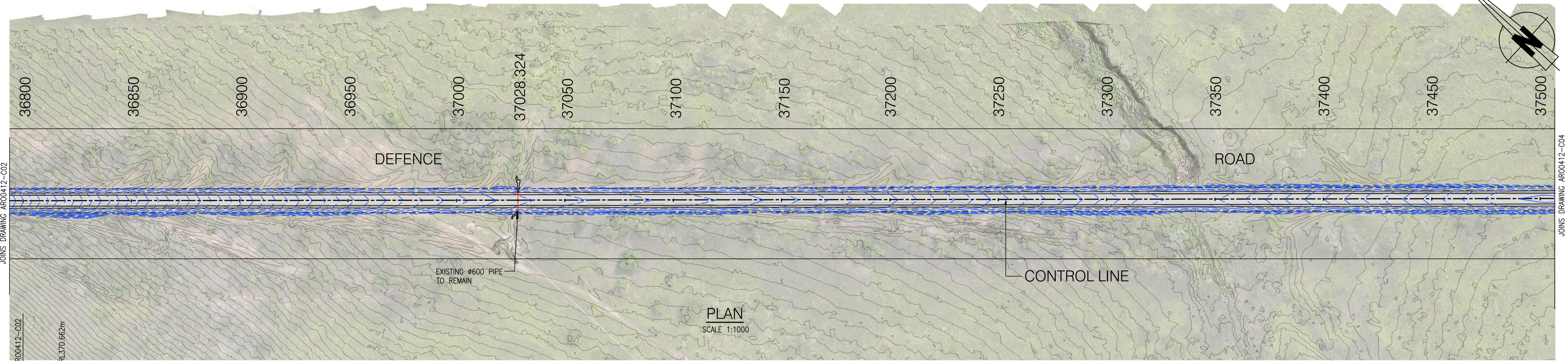
Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 1 OF 47

Drawn	MS	Designed	MS	Approved	
Drawing Check		Design Check		RPEQ	Date

Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 49 641 461 298



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT

NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



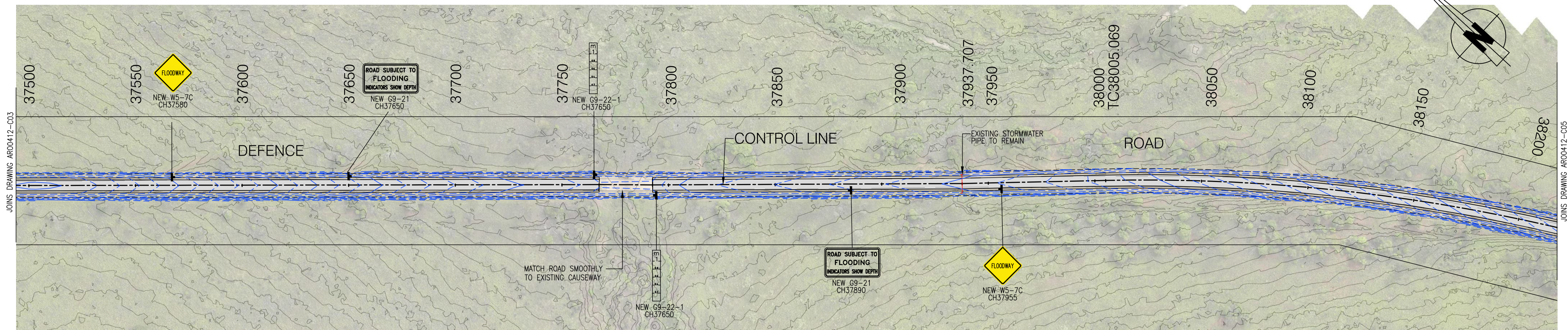
Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 2 OF 47

Drawn	MS	Designed	MS	Approved	RPEQ	Date
Drawing Check		Design Check				

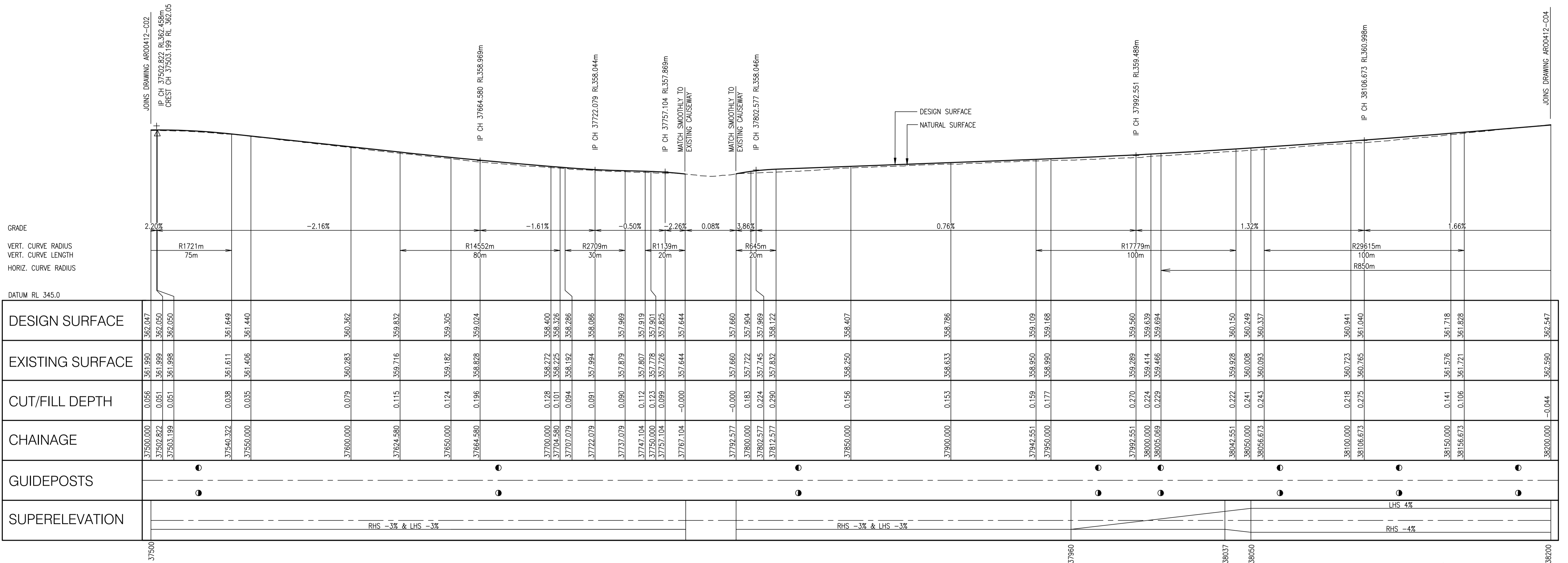
Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.

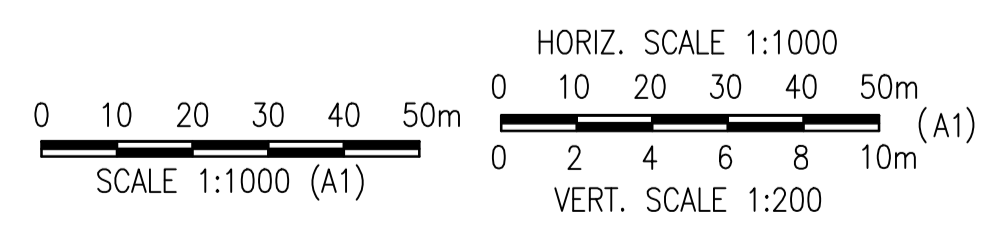
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



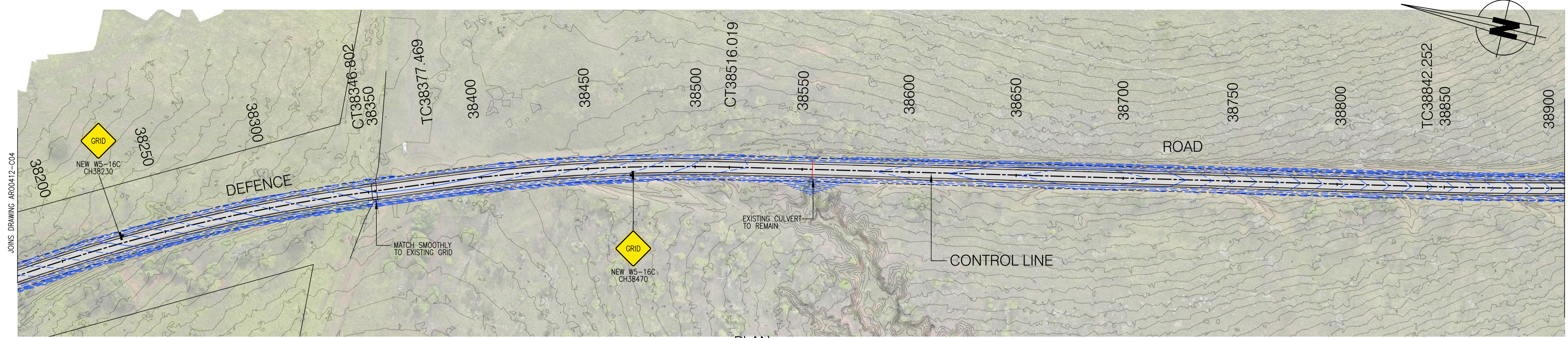
NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

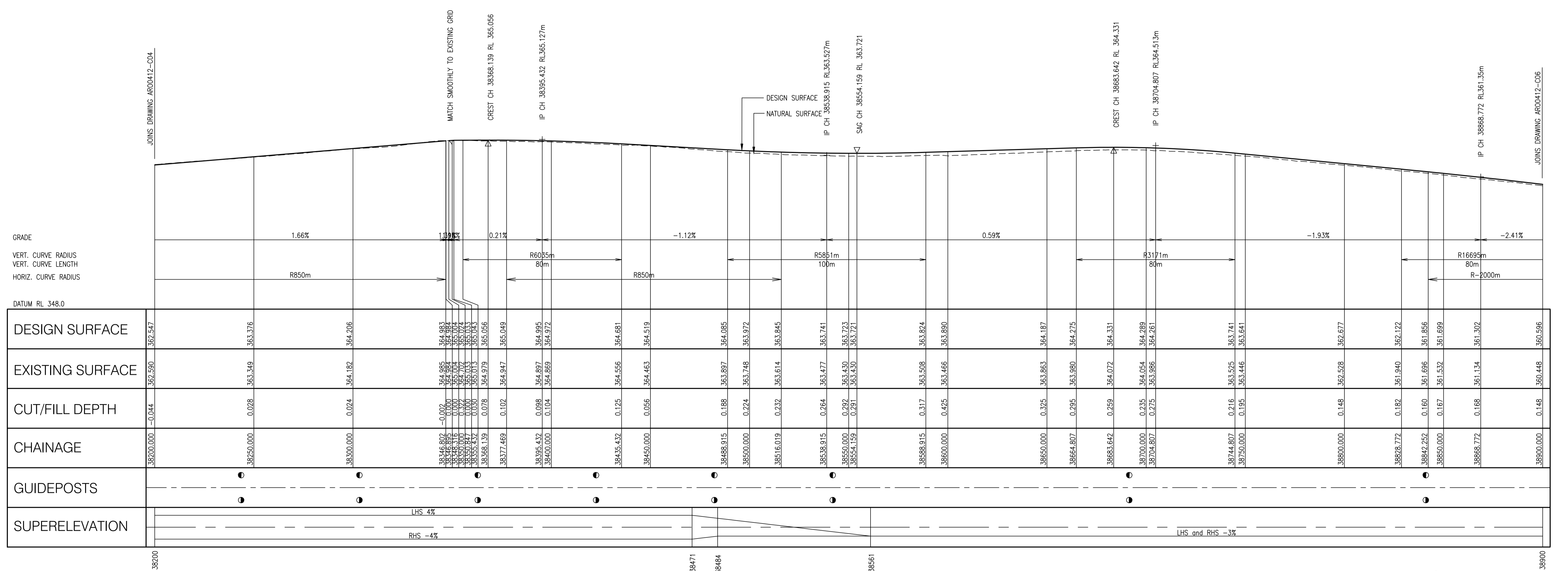


Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 3 OF 47
Drawing No.	ARO0412-C04

Drawn	MS	Designed	MS	Approved		Scale (A1 size)	AS SHOWN
Drawing Check		Design Check		RPEQ	Date	Drawing is not to be used for construction unless approved.	

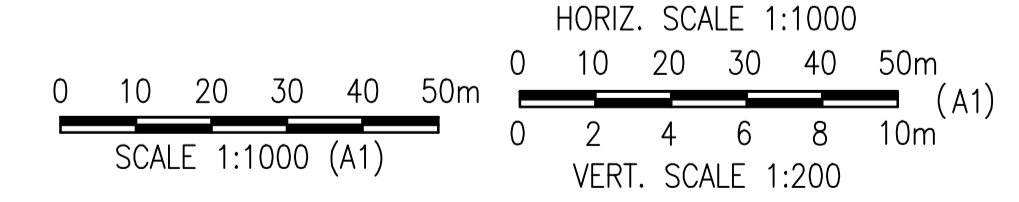


PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT

NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

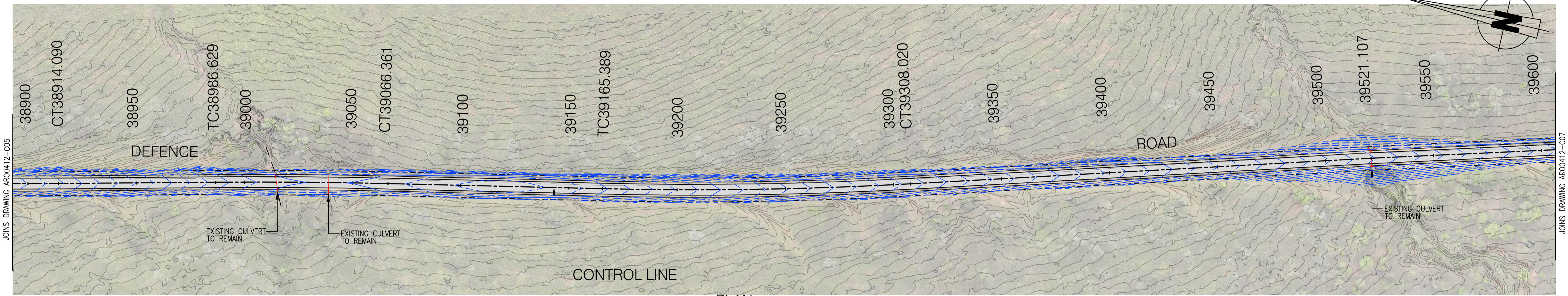


No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

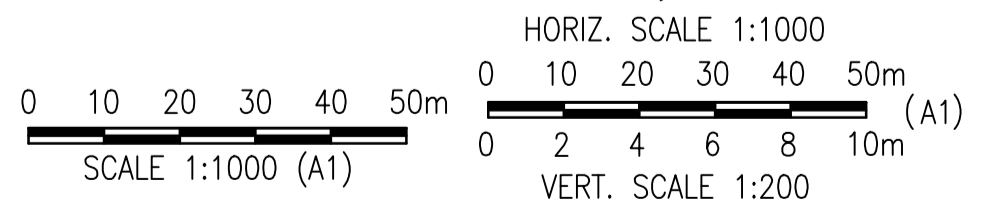
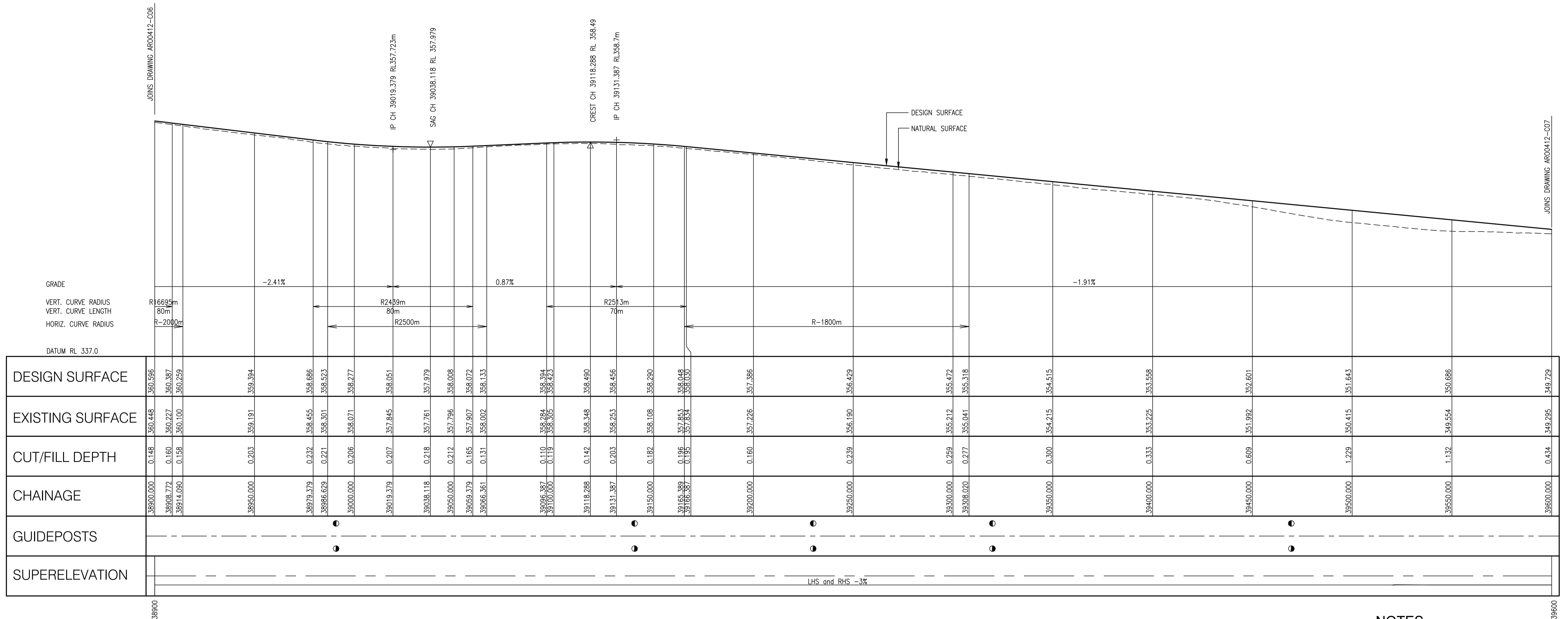


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 4 OF 47
Drawing No.: ARO0412-C05

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date



PLAN
SCALE 1:1000



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

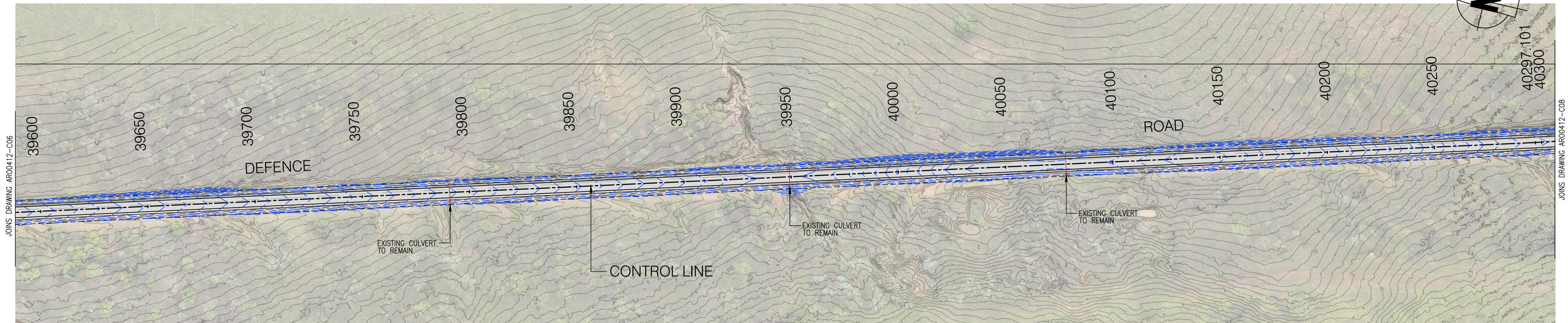
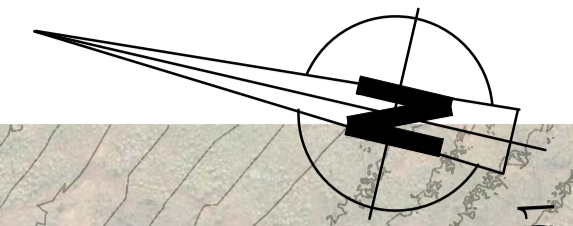


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 5 OF 47
Drawing No.: ARO0412-C06

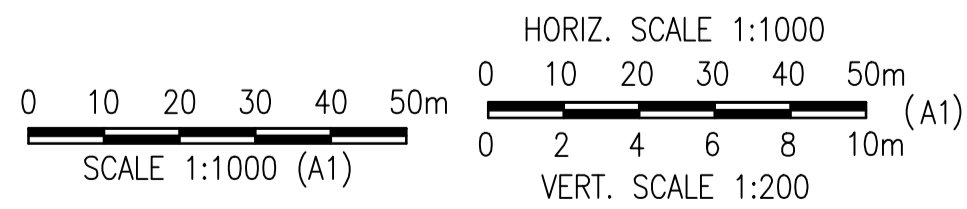
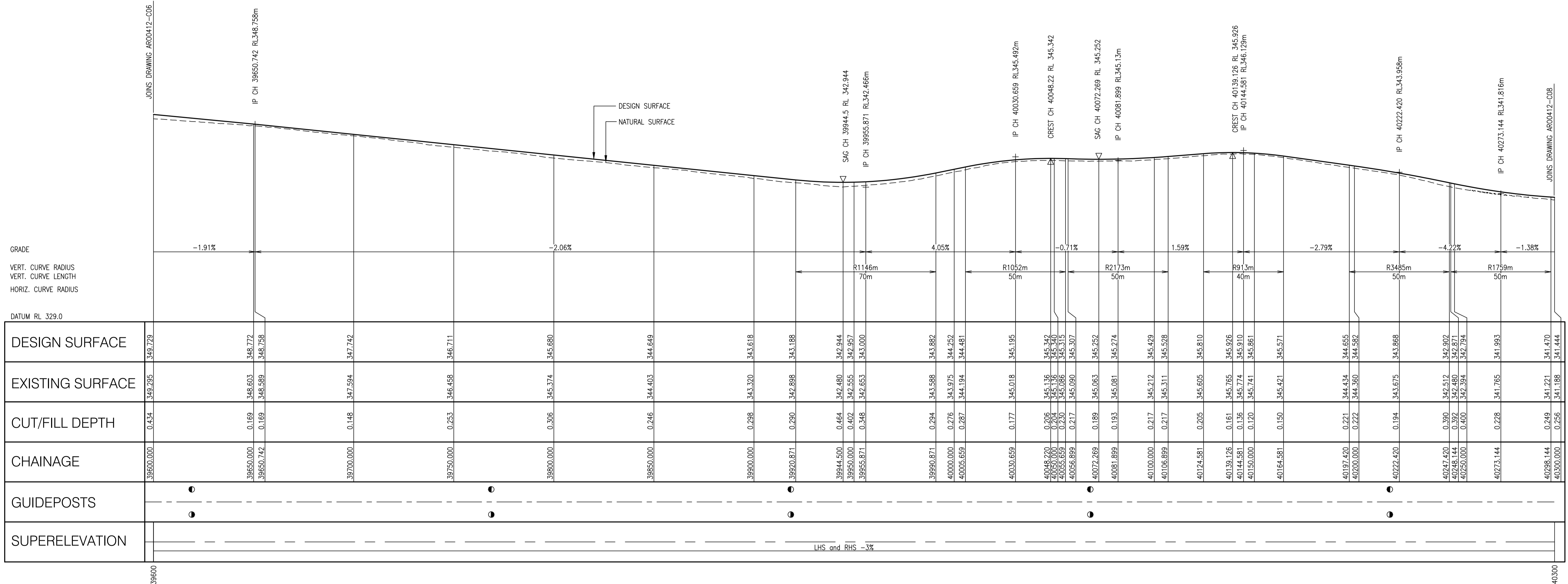
Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

Drawing is not to be used for construction unless approved.

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



NOTES

- REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



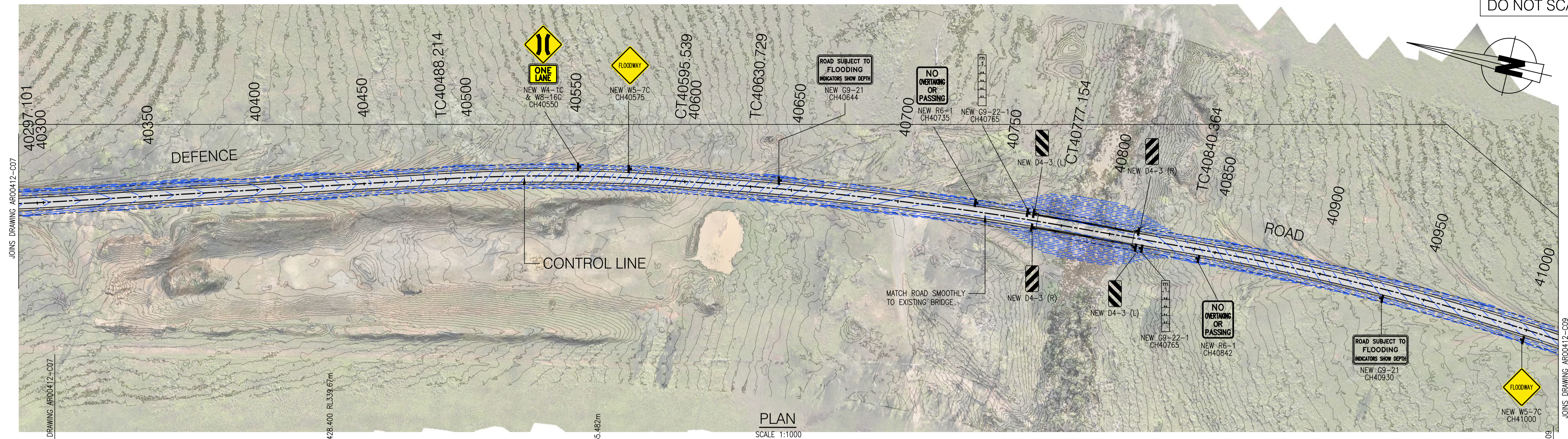
Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 6 OF 47

Drawn	MS	Designed	MS	Approved	
Drawing Check		Design Check		RPEQ	Date

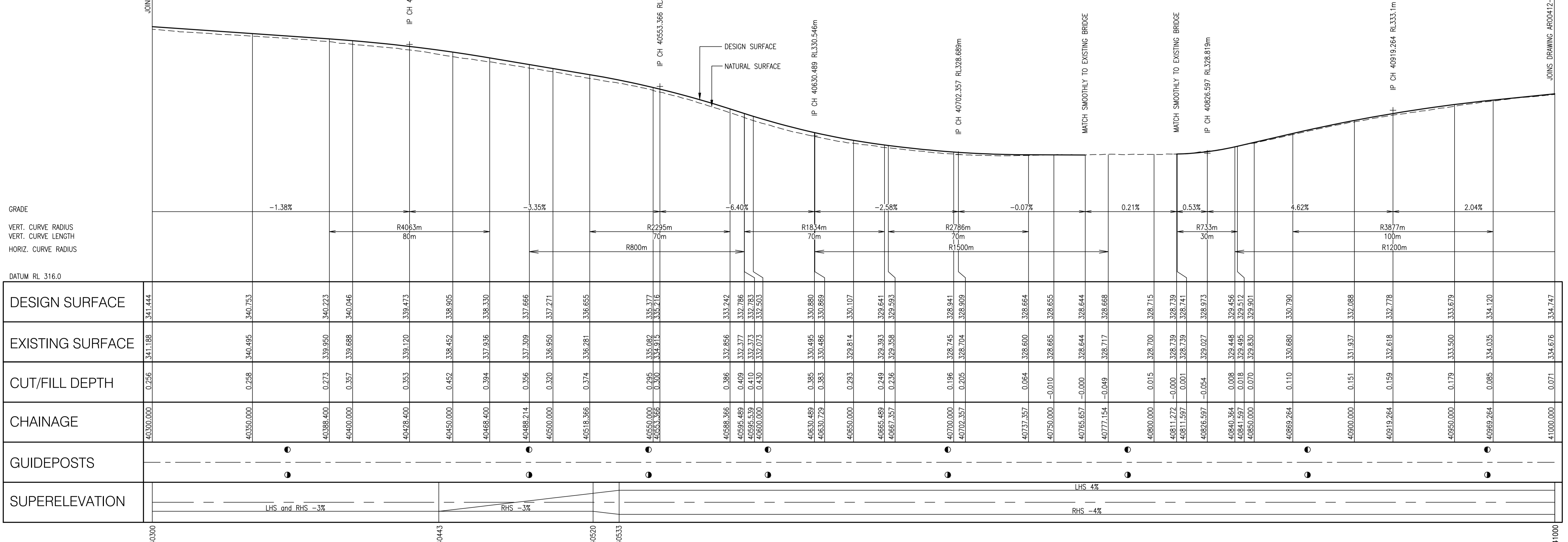
Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.

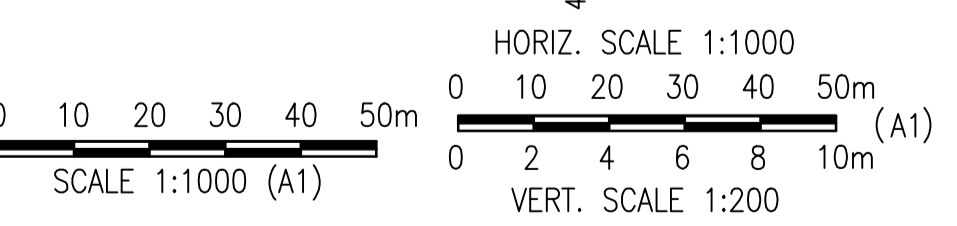
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



DESIGN SURFACE	EXISTING SURFACE	CUT/FILL DEPTH	CHAINAGE	GUIDEPOSTS	SUPERELEVATION
341.444	341.188	0.256	40300.000		
340.753	340.495	0.258	40350.000		
340.223	339.950	0.273	40386.400		
340.046	339.688	0.357	40400.000		
339.473	339.120	0.353	40428.400		
338.905	338.452	0.452	40450.000		
338.330	337.936	0.394	40468.400		
337.666	337.309	0.356	40486.214		
337.271	336.950	0.320	40500.000		
336.655	336.281	0.374	40516.366		
335.377	335.082	0.295	40550.000		
335.216	334.916	0.300	40563.366		
333.242	332.856	0.386	40586.366		
332.786	332.377	0.409	40595.489		
332.783	332.373	0.410	40595.539		
332.503	332.073	0.430	40600.000		
330.880	330.495	0.385	40630.489		
330.669	330.486	0.383	40630.729		
330.107	329.814	0.293	40650.000		
329.641	329.393	0.249	40665.489		
329.593	329.358	0.236	40667.357		
328.941	328.745	0.196	40700.000		
328.909	328.704	0.205	40702.357		
328.664	328.600	0.064	40737.357		
328.655	328.655	-0.010	40750.000		
328.644	328.644	-0.000	40765.657		
328.668	328.717	-0.049	40777.154		
328.715	328.700	0.015	40800.000		
328.739	328.739	-0.000	40811.272		
328.741	328.739	0.001	40811.597		
328.973	329.027	-0.054	40826.597		
329.456	329.448	0.008	40840.364		
329.512	329.495	0.018	40841.597		
329.901	329.830	0.070	40850.000		
330.790	330.680	0.110	40869.264		
332.088	331.937	0.151	40900.000		
332.778	332.618	0.159	40919.264		
333.679	333.500	0.179	40950.000		
334.120	334.035	0.085	40969.264		
334.747	334.676	0.071	41000.000		



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

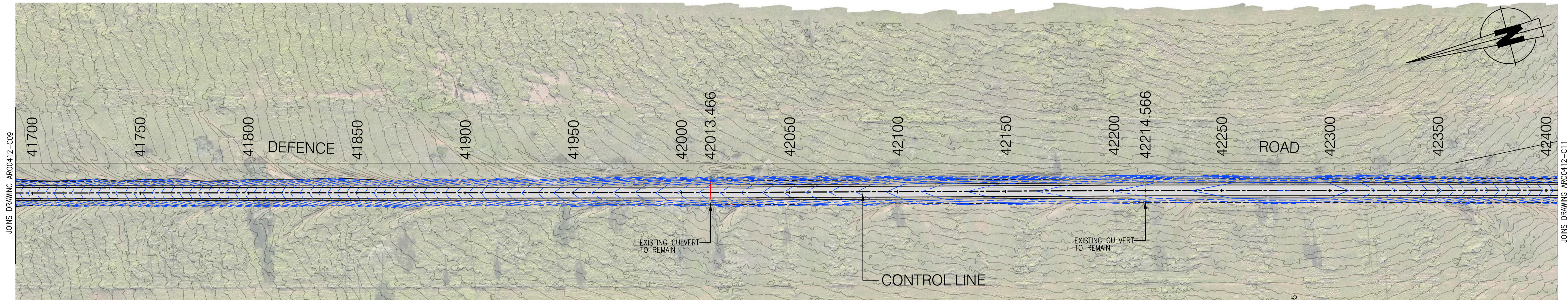
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

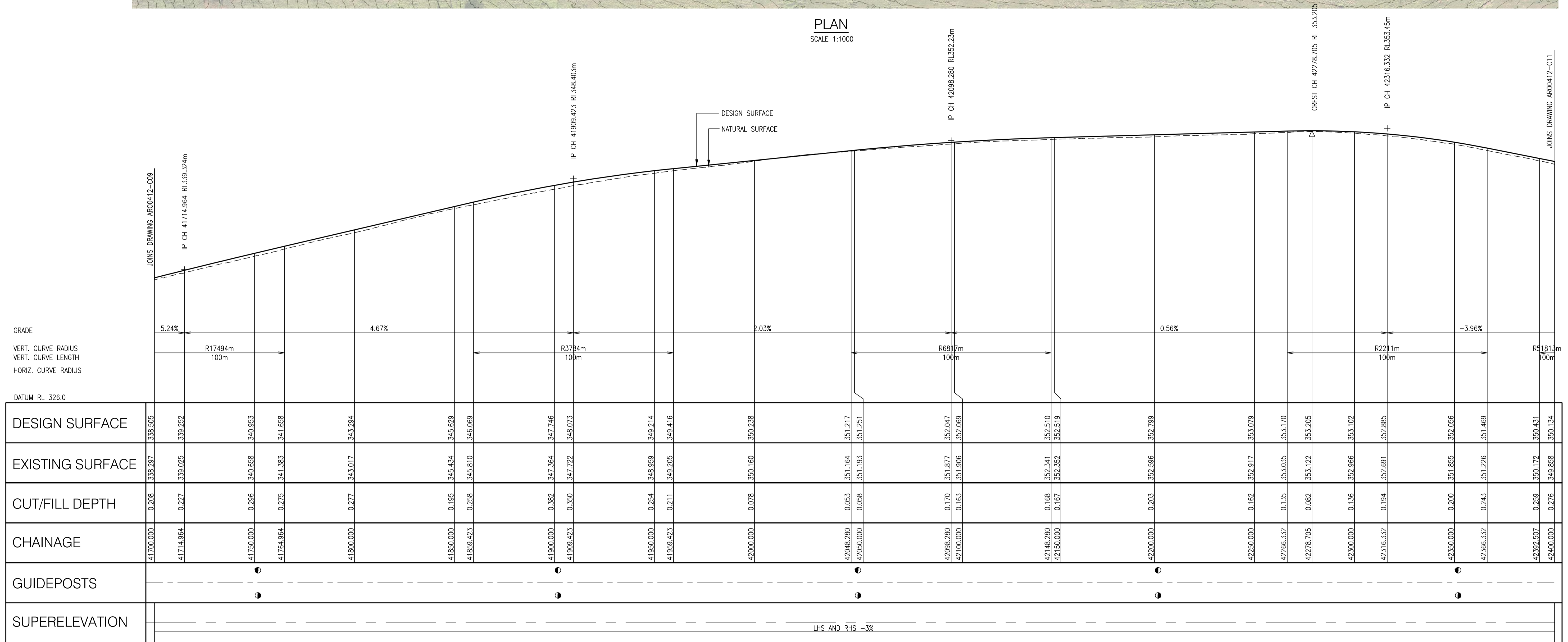


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 7 OF 47

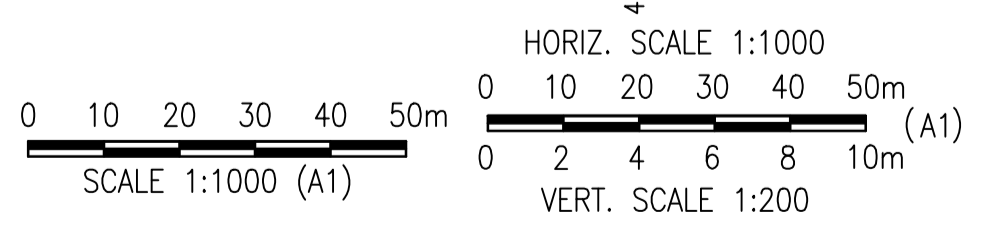
Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date



PLAN
SCALE 1:1000



DESIGN SURFACE	EXISTING SURFACE	CUT/FILL DEPTH	CHAINAGE	GUIDEPOSTS	SUPERELEVATION
338.505	338.297	0.208	41700.000		
339.252	339.025	0.227	41714.964		
340.953	340.658	0.296	41750.000		
341.658	341.383	0.275	41764.964		
343.294	343.017	0.277	41800.000		
345.629	345.434	0.195	41850.000		
346.069	345.810	0.258	41859.423		
347.746	347.364	0.382	41900.000		
348.073	347.722	0.350	41909.423		
349.214	348.959	0.254	41950.000		
349.416	349.205	0.211	41959.423		
350.238	350.160	0.078	42000.000		
351.217	351.164	0.053	42048.280		
351.251	351.193	0.058	42050.000		
352.047	351.877	0.170	42098.280		
352.069	351.906	0.163	42100.000		
352.510	352.341	0.168	42148.280		
352.519	352.352	0.167	42150.000		
352.799	352.696	0.203	42200.000		
353.079	352.917	0.162	42250.000		
353.170	353.035	0.135	42266.332		
353.205	353.122	0.082	42278.705		
353.102	352.966	0.136	42300.000		
352.885	352.691	0.194	42316.332		
352.056	351.855	0.200	42350.000		
351.469	351.226	0.243	42366.332		
350.431	350.172	0.259	42392.507		
350.134	349.658	0.276	42400.000		



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

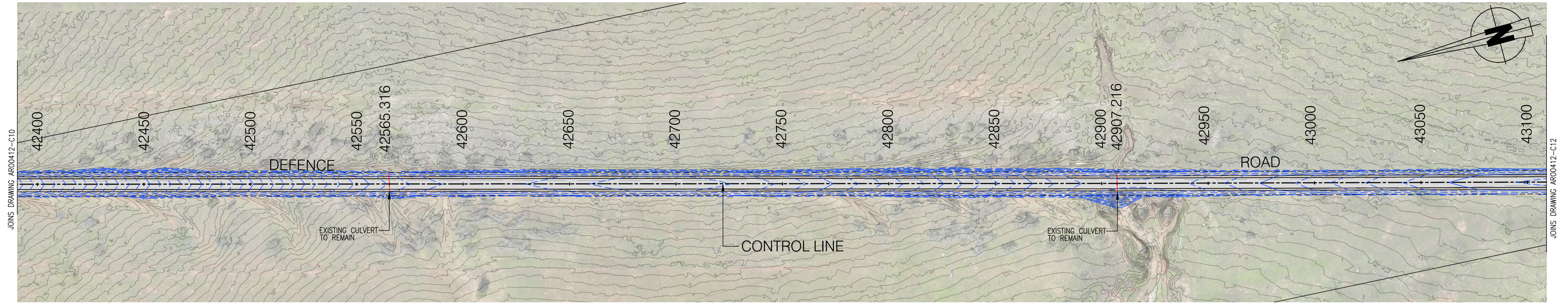


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 9 OF 47

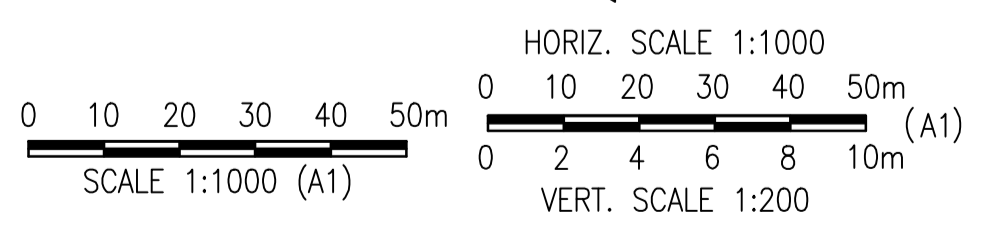
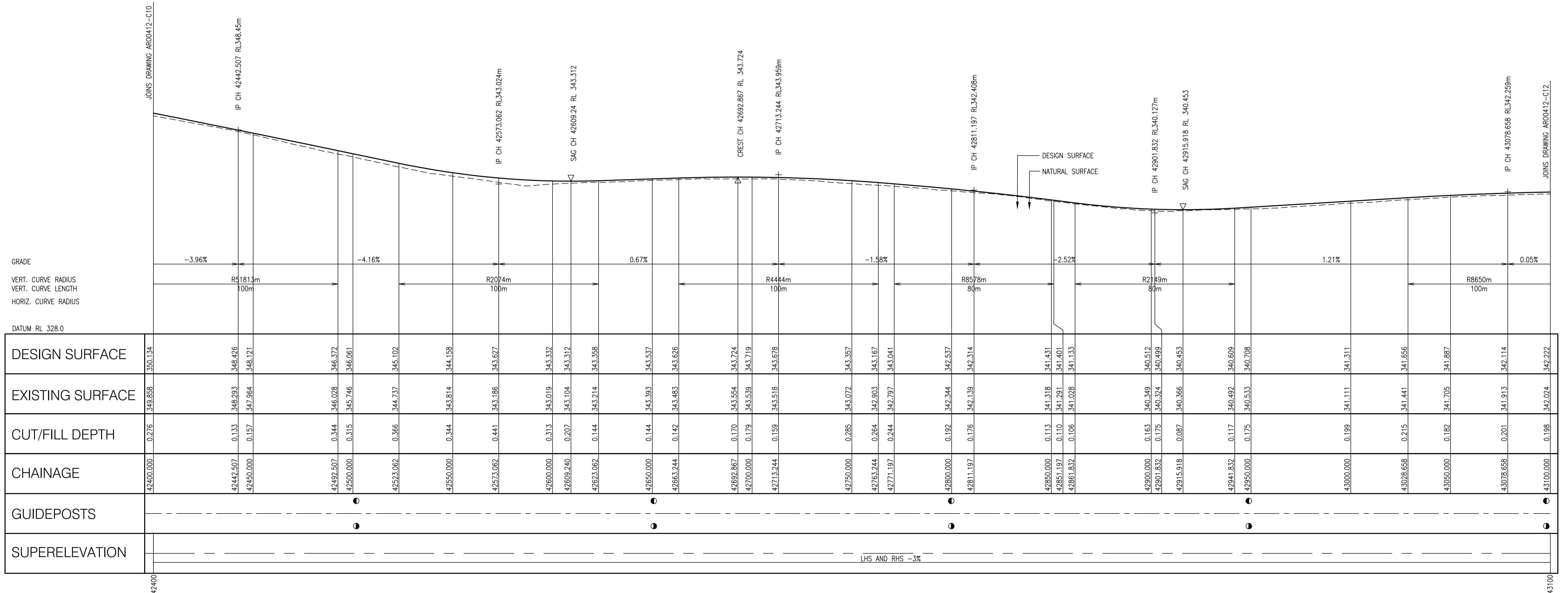
Drawn	Designed	Approved
MS	MS	
Drawing Check	Design Check	RPEQ

Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.



PLAN
SCALE 1:1000



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

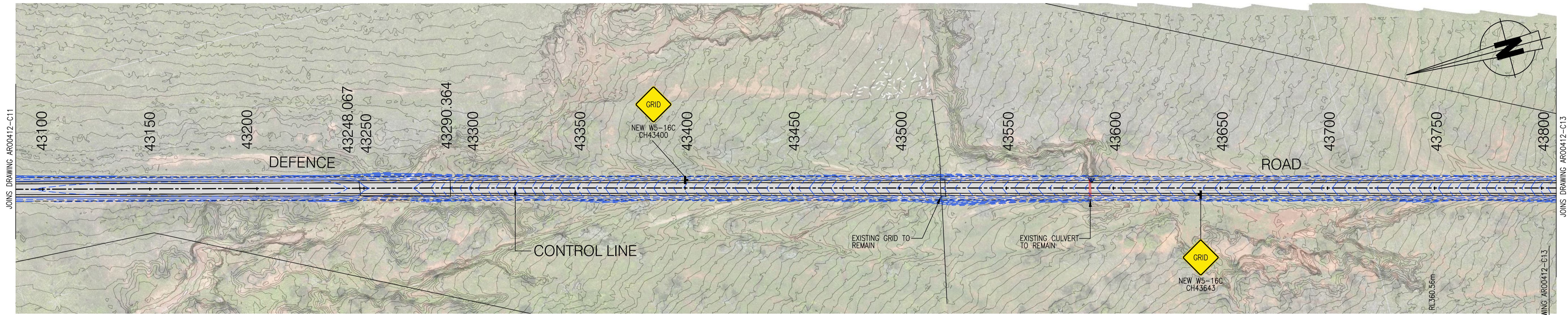


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 10 OF 47

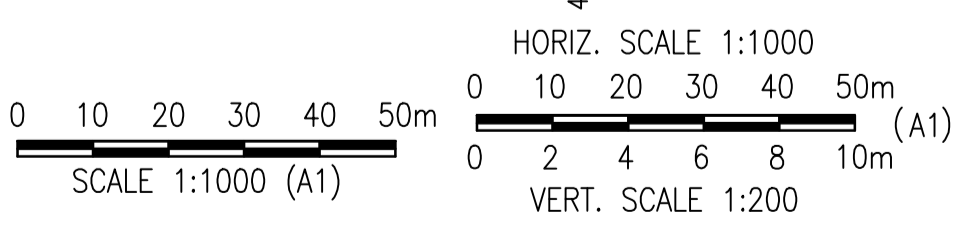
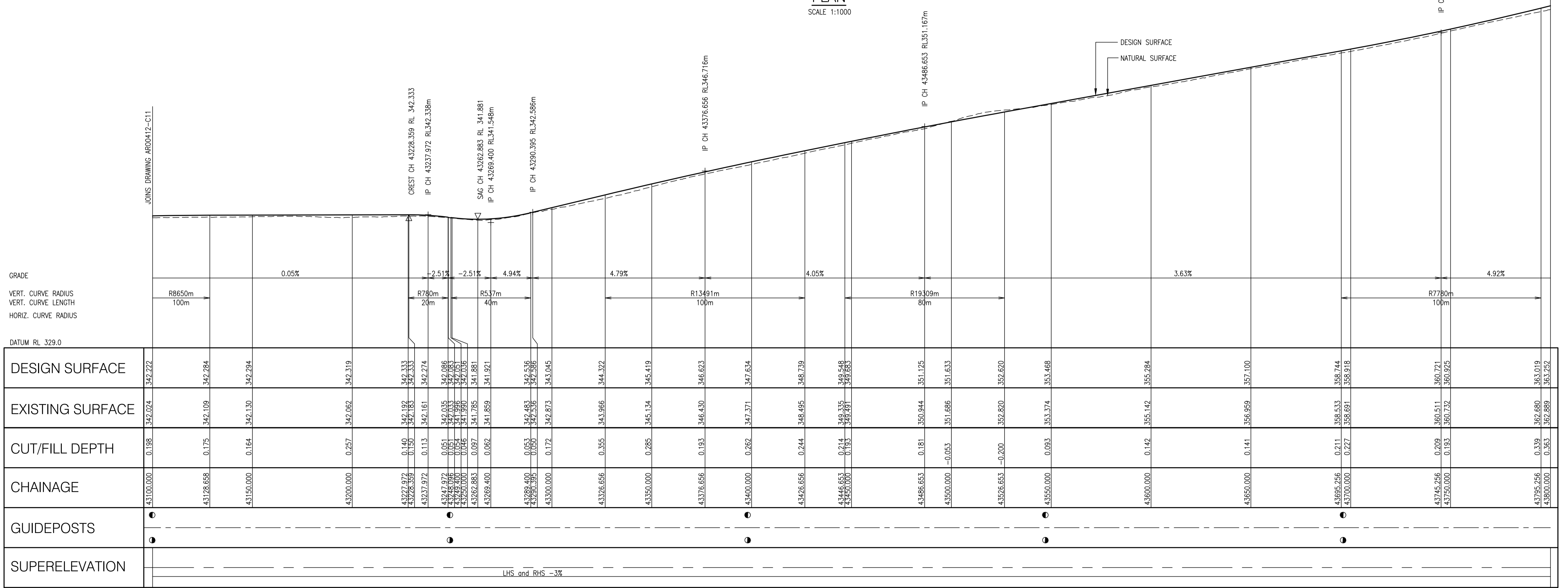
Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

Drawing is not to be used for construction unless approved.

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

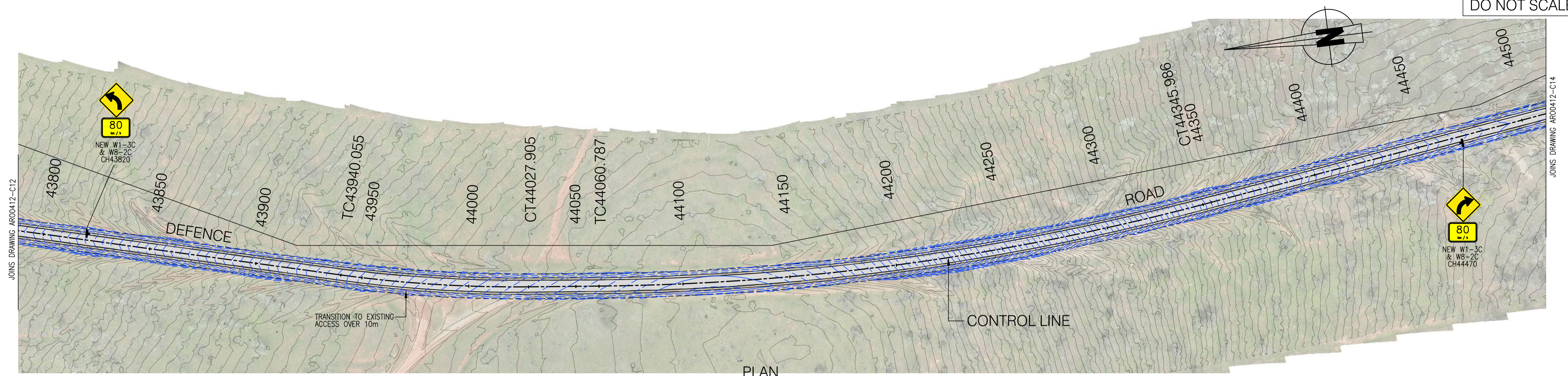
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



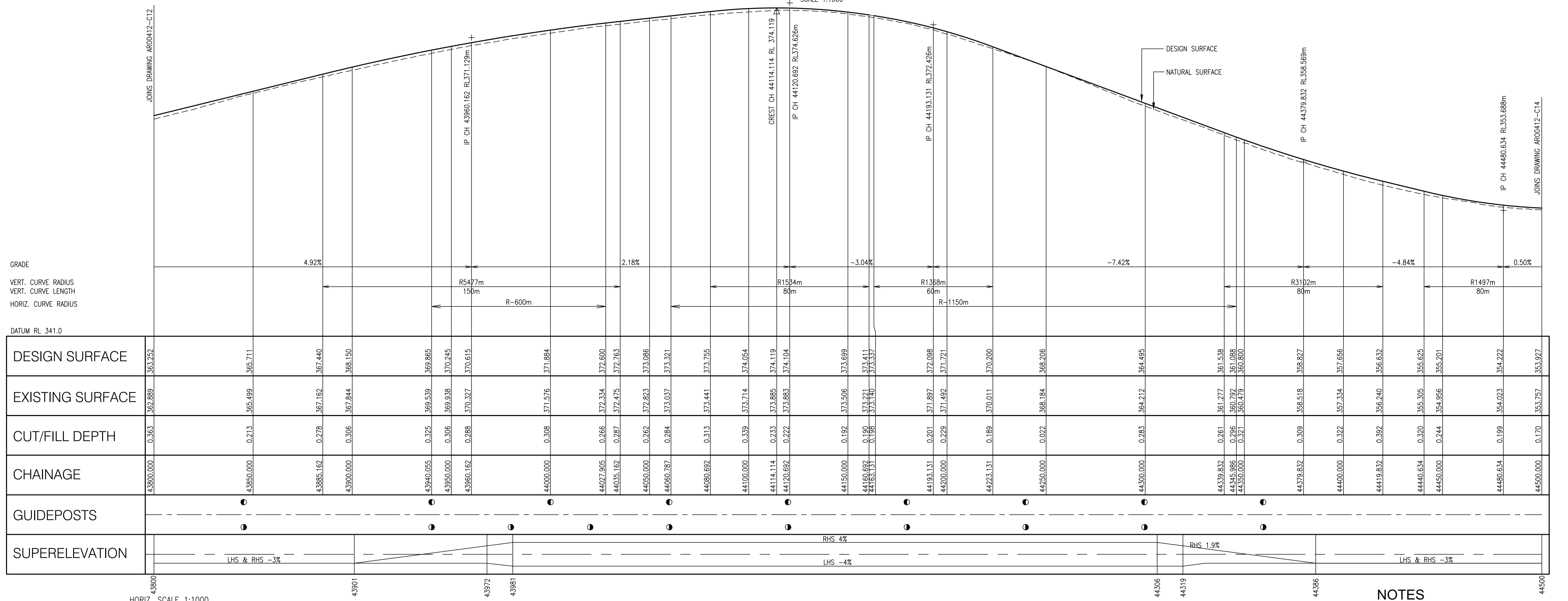
Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 11 OF 47

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 49 641 461 298



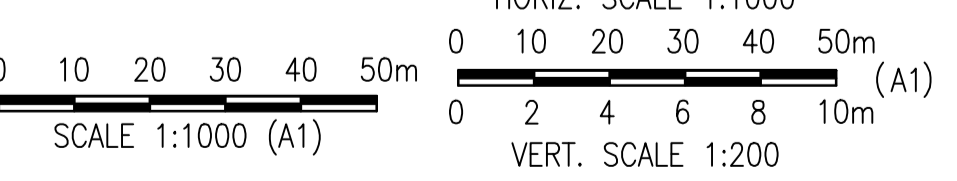
PLAN
SCALE 1:1000



GRADE
VERT. CURVE RADIUS
VERT. CURVE LENGTH
HORIZ. CURVE RADIUS

DATUM RL 341.0

	43800.000	43850.000	43885.162	43900.000	43940.055	43950.000	43960.162	44000.000	44027.905	44035.162	44050.000	44060.787	44080.692	44100.000	44114.114	44120.692	44150.000	44160.692	44165.131	44193.131	44200.000	44223.131	44250.000	44300.000	44339.832	44345.986	44350.000	44379.832	44400.000	44419.832	44440.634	44450.000	44480.634	44500.000	
DESIGN SURFACE	365.252	365.711	367.440	368.150	369.865	370.245	370.615	371.864	372.600	372.763	373.086	373.321	373.755	374.054	374.119	374.104	373.699	373.411	373.337	372.998	371.721	370.200	368.206	364.495	361.538	361.088	360.792	360.800	358.827	357.656	356.632	355.625	355.201	354.222	353.927
EXISTING SURFACE	362.889	365.499	367.162	367.844	369.539	369.938	370.327	371.576	372.334	372.475	372.823	373.037	373.441	373.714	373.885	373.883	373.506	373.221	373.140	372.697	371.492	370.011	368.184	364.212	361.277	361.088	360.792	360.479	358.518	357.334	356.240	355.305	354.956	354.023	353.757
CUT/FILL DEPTH	0.363	0.213	0.278	0.306	0.325	0.306	0.288	0.308	0.266	0.287	0.262	0.284	0.313	0.339	0.233	0.222	0.192	0.190	0.198	0.201	0.229	0.189	0.022	0.283	0.261	0.296	0.321	0.309	0.322	0.392	0.320	0.244	0.199	0.170	
CHAINAGE	43800.000	43850.000	43885.162	43900.000	43940.055	43950.000	43960.162	44000.000	44027.905	44035.162	44050.000	44060.787	44080.692	44100.000	44114.114	44120.692	44150.000	44160.692	44165.131	44193.131	44200.000	44223.131	44250.000	44300.000	44339.832	44345.986	44350.000	44379.832	44400.000	44419.832	44440.634	44450.000	44480.634	44500.000	
GUIDEPOSTS																																			
SUPERELEVATION	LHS & RHS -3%																RHS 4%		LHS -4%						RHS 1.9%						LHS & RHS -3%				



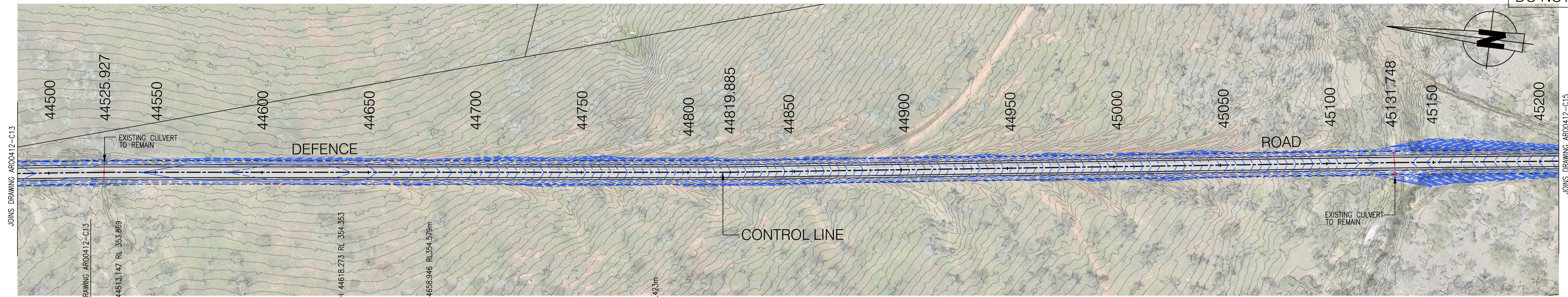
NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

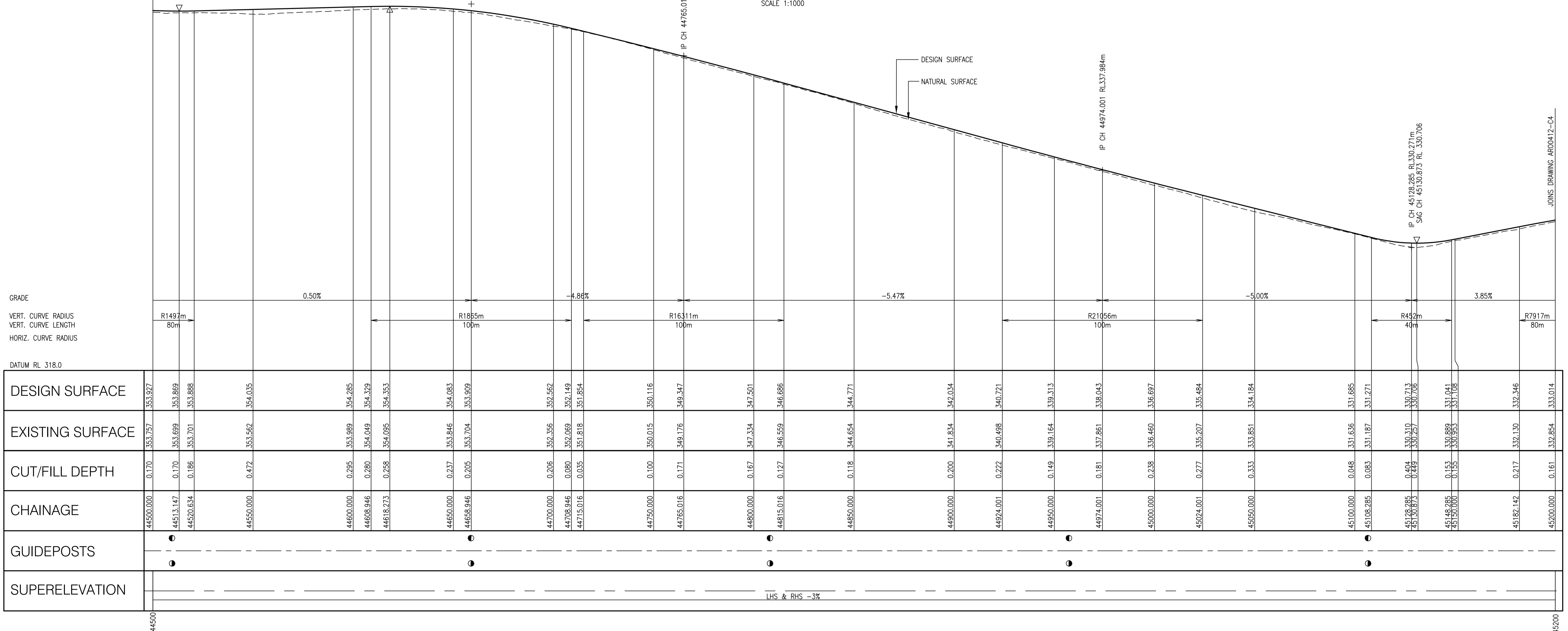


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 12 OF 47
Drawing No.: ARO0412-C13

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date



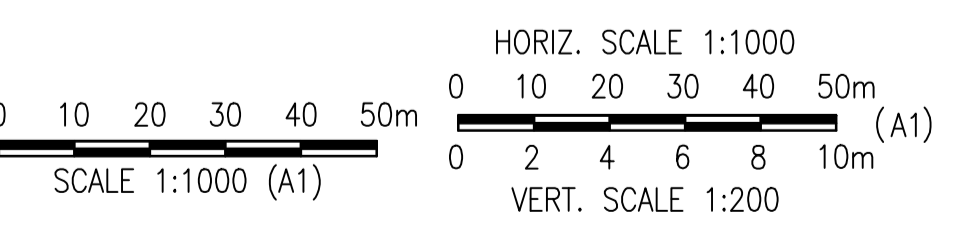
PLAN
SCALE 1:1000



GRADE
VERT. CURVE RADIUS
VERT. CURVE LENGTH
HORIZ. CURVE RADIUS

DATUM RL 318.0

	44500.000	44513.147	44520.634	44550.000	44600.000	44608.946	44618.273	44650.000	44658.946	44700.000	44708.946	44715.016	44750.000	44765.016	44800.000	44815.016	44850.000	44900.000	44924.001	44950.000	44974.001	45000.000	45024.001	45050.000	45100.000	45108.285	45128.285	45130.873	45148.285	45150.000	45182.142	45200.000	
DESIGN SURFACE	353.927	353.869	353.868	354.035	354.285	354.329	354.353	354.083	353.909	352.562	352.149	351.854	350.116	349.347	347.501	346.686	344.771	342.034	340.721	339.313	338.043	336.697	335.484	334.184	331.685	331.271	330.713	330.271	331.041	331.108	332.346	333.014	
EXISTING SURFACE	353.757	353.699	353.701	354.035	354.285	354.329	354.353	354.083	353.909	352.562	352.149	351.854	350.116	349.347	347.501	346.686	344.771	342.034	340.721	339.313	338.043	336.697	335.484	334.184	331.685	331.271	330.713	330.271	331.041	331.108	332.346	333.014	
CUT/FILL DEPTH	0.170	0.170	0.166	0.472	0.295	0.280	0.258	0.237	0.205	0.206	0.080	0.035	0.100	0.171	0.167	0.127	0.118	0.200	0.222	0.149	0.181	0.238	0.277	0.333	0.048	0.083	0.404	0.249	0.153	0.157	0.217	0.161	
CHAINAGE	44500.000	44513.147	44520.634	44550.000	44600.000	44608.946	44618.273	44650.000	44658.946	44700.000	44708.946	44715.016	44750.000	44765.016	44800.000	44815.016	44850.000	44900.000	44924.001	44950.000	44974.001	45000.000	45024.001	45050.000	45100.000	45108.285	45128.285	45130.873	45148.285	45150.000	45182.142	45200.000	
GUIDEPOSTS																																	
SUPERELEVATION																																	



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

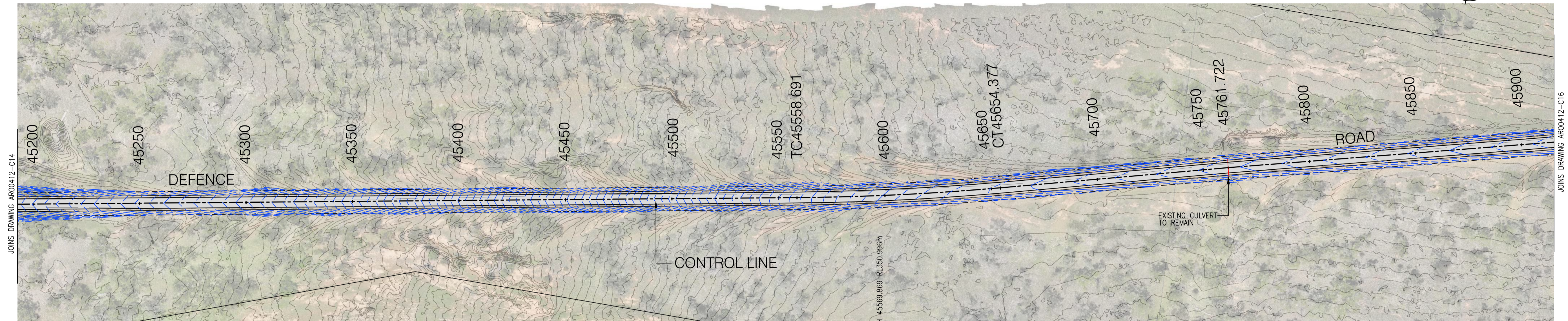
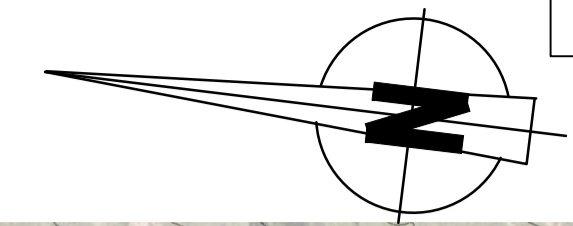
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



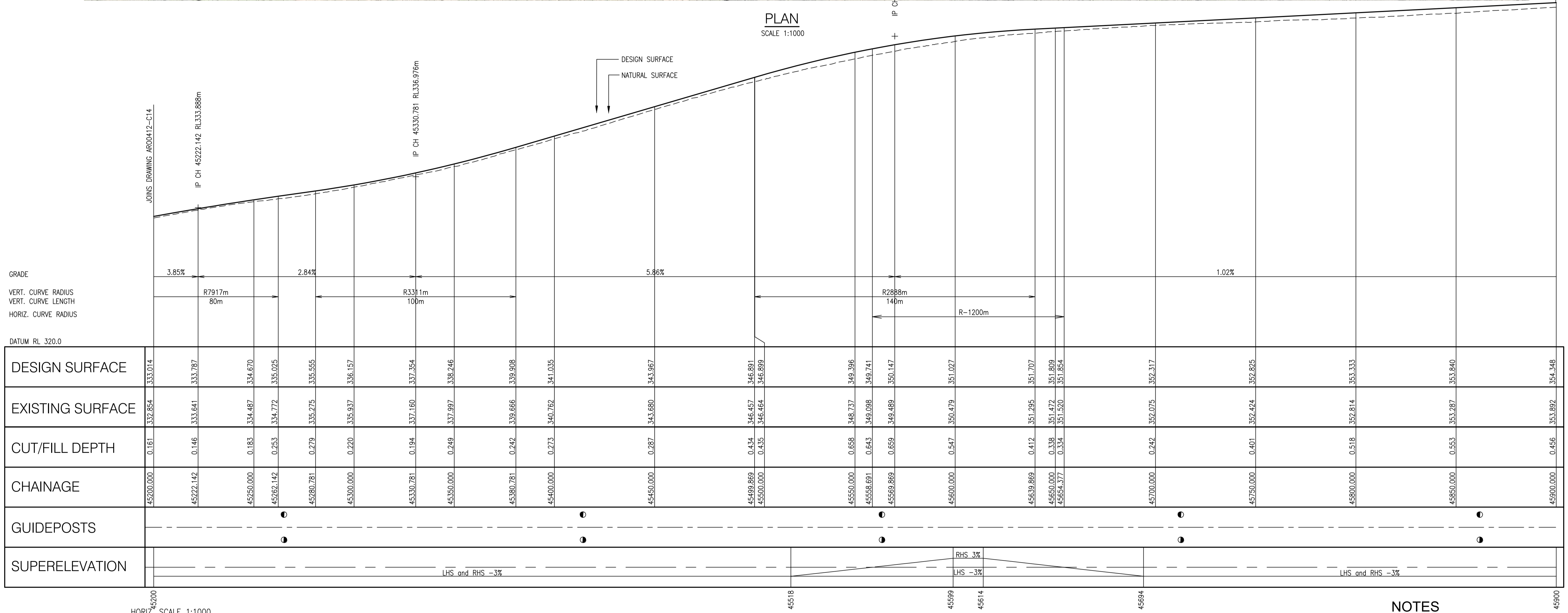
Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 13 OF 47

Drawn	MS	Designed	MS	Approved		Scale (A1 size)	AS SHOWN
Drawing Check		Design Check		RPEQ	Date	Drawing is not to be used for construction unless approved.	

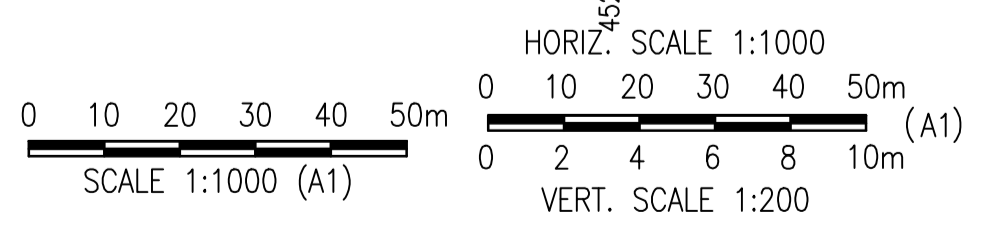
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



	45200.000	45222.142	45250.000	45262.142	45280.781	45300.000	45330.781	45350.000	45380.781	45400.000	45450.000	45499.869	45500.000	45550.000	45558.691	45569.869	45600.000	45650.000	45654.377	45700.000	45750.000	45800.000	45850.000	45900.000
DESIGN SURFACE	333.014	333.787	334.670	335.025	335.555	336.157	337.354	338.246	339.908	341.035	343.967	346.891	346.899	349.396	349.741	350.147	351.027	351.707	351.854	352.317	352.825	353.333	353.840	354.348
EXISTING SURFACE	332.854	333.641	334.487	334.772	335.275	335.937	337.160	337.997	339.666	340.762	343.660	346.457	346.464	348.737	349.098	349.489	350.479	351.295	351.472	351.920	352.424	352.927	353.433	353.940
CUT/FILL DEPTH	0.161	0.146	0.183	0.263	0.279	0.220	0.194	0.249	0.242	0.273	0.287	0.434	0.435	0.658	0.643	0.659	0.547	0.412	0.338	0.334	0.242	0.401	0.518	0.456
CHAINAGE	45200.000	45222.142	45250.000	45262.142	45280.781	45300.000	45330.781	45350.000	45380.781	45400.000	45450.000	45499.869	45500.000	45550.000	45558.691	45569.869	45600.000	45650.000	45654.377	45700.000	45750.000	45800.000	45850.000	45900.000
GUIDEPOSTS																								
SUPERELEVATION	LHS and RHS -3%												RHS 3% LHS -3%				LHS and RHS -3%							



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024

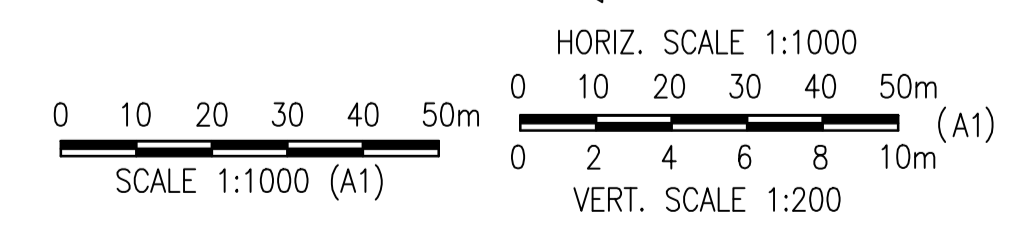
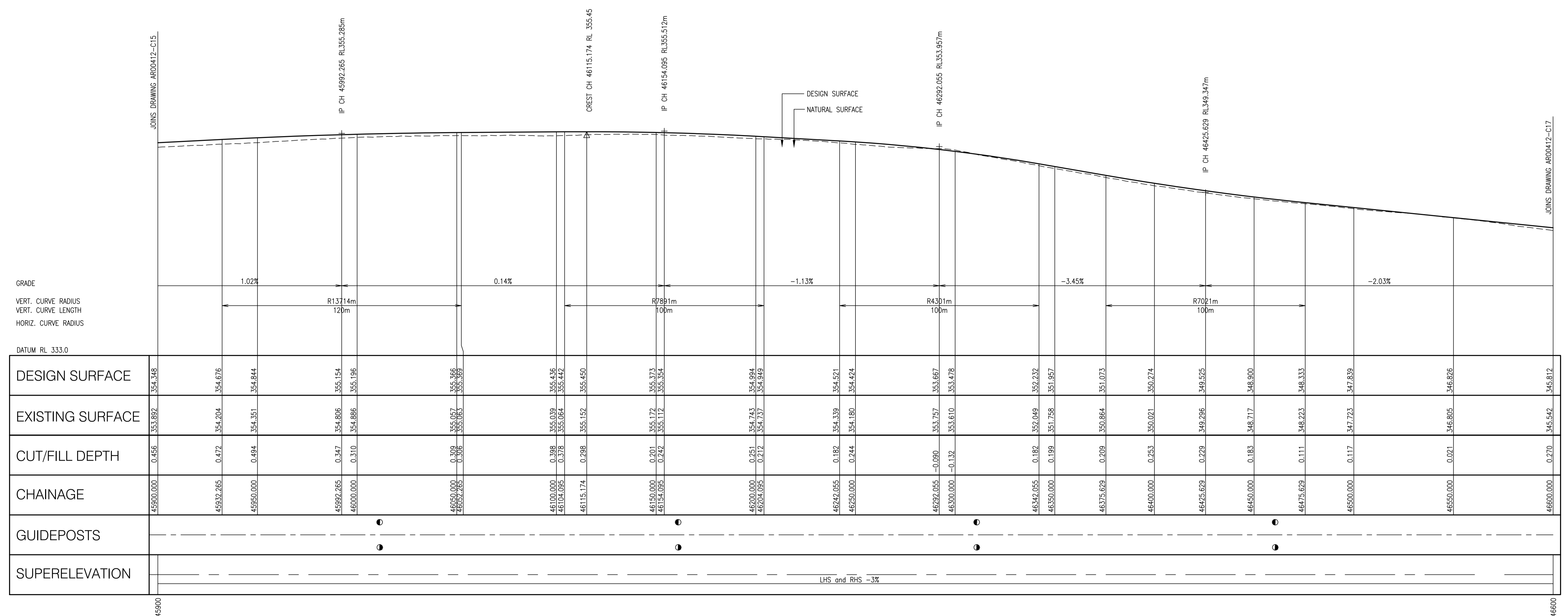
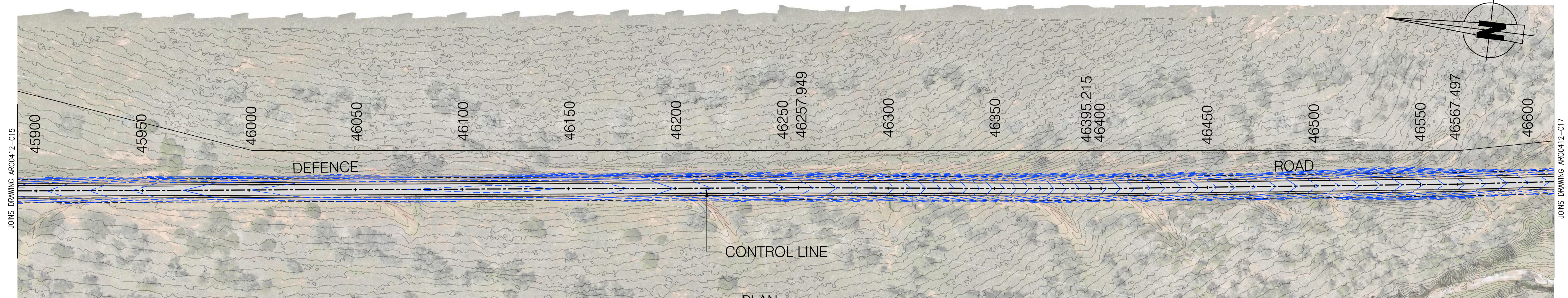


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 14 OF 47

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

ARO

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



NOTES
 1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

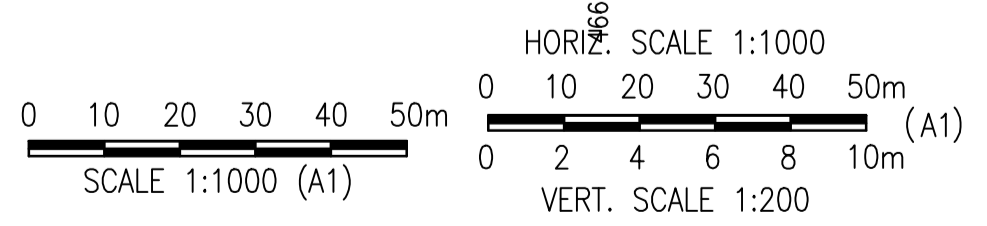
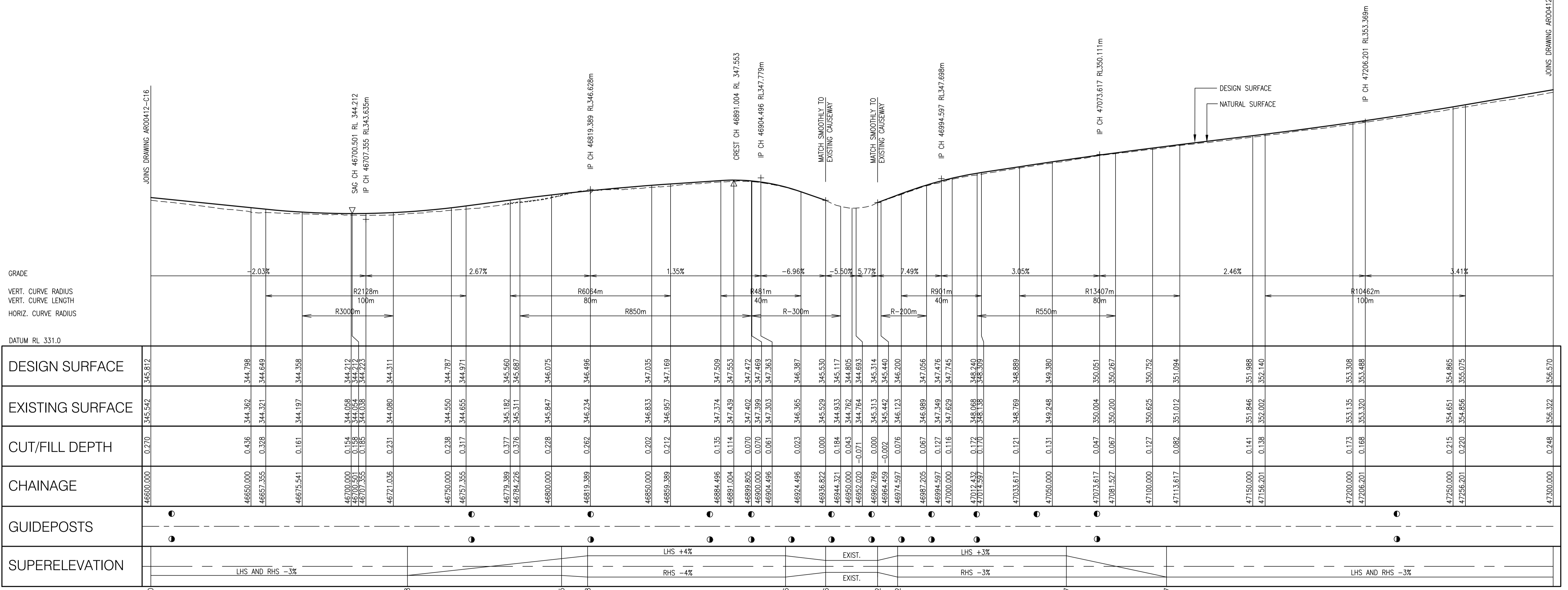
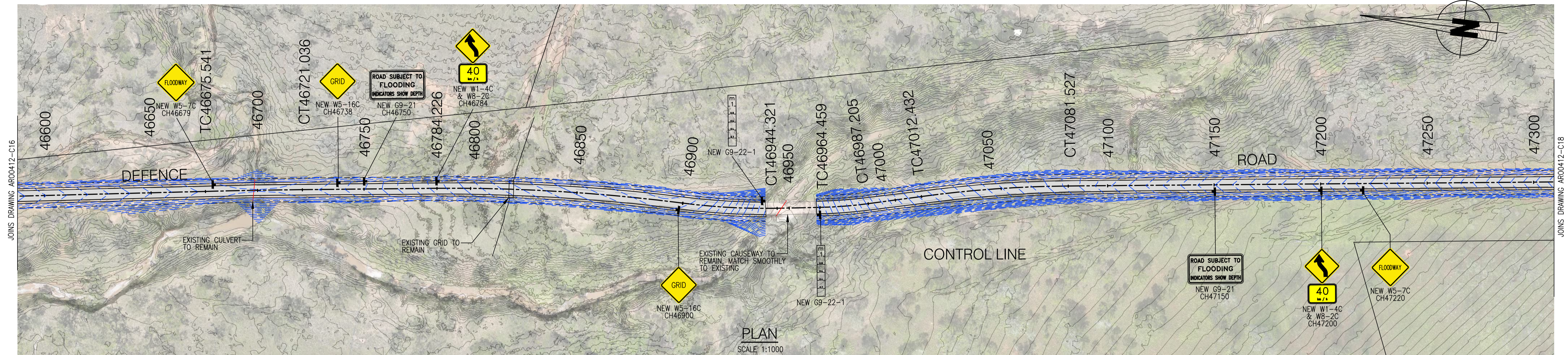
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



Client: BANANA SHIRE COUNCIL
 Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
 Title: WORKING PLAN - SHEET 15 OF 47
 Drawing No. ARO0412-C16

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

51 Sheridan Street
 Cairns Qld 4870
 T (07) 4281 6897
 E admin@arindustries.com.au
 W www.arindustries.com.au
 ABN: 49 641 461 298



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



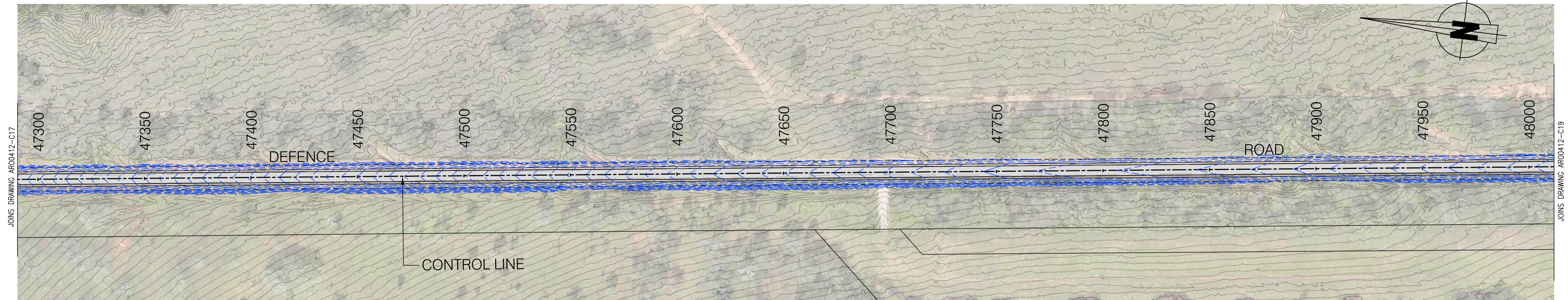
Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 16 OF 47

Drawn	Designed	Approved
MS	MS	

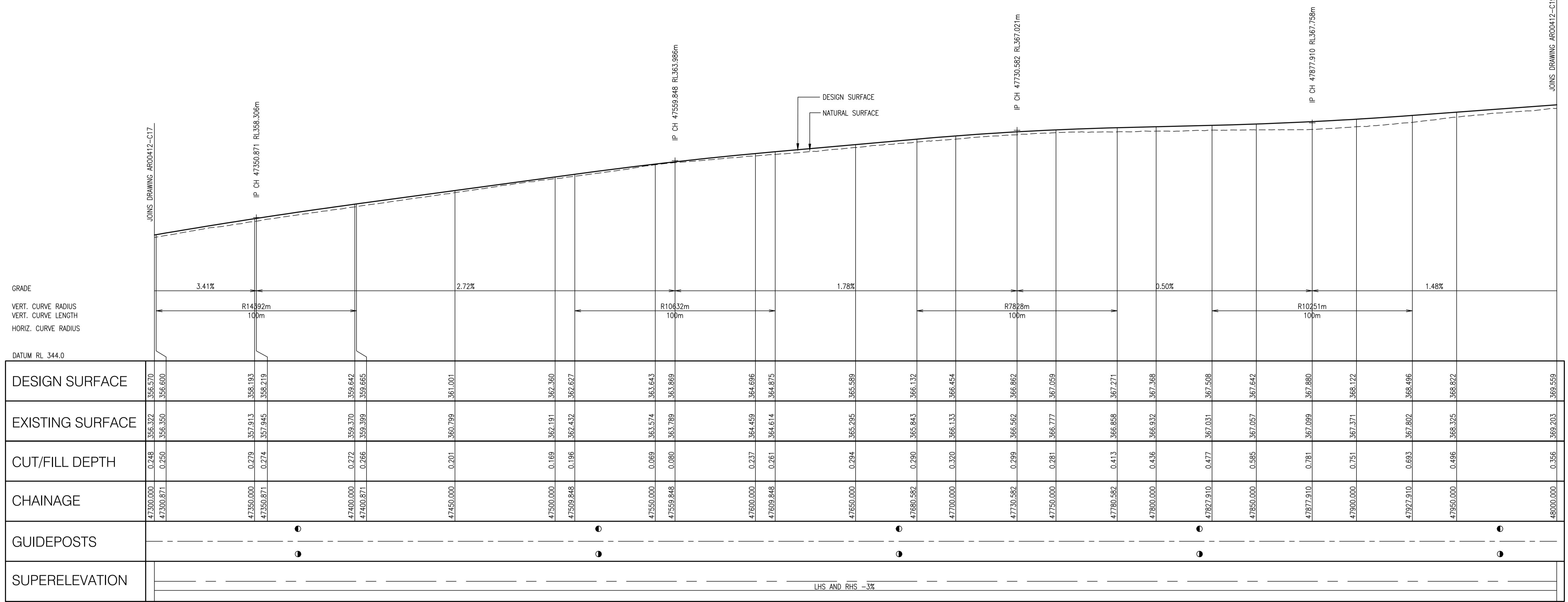
Scale (A1 size)
AS SHOWN



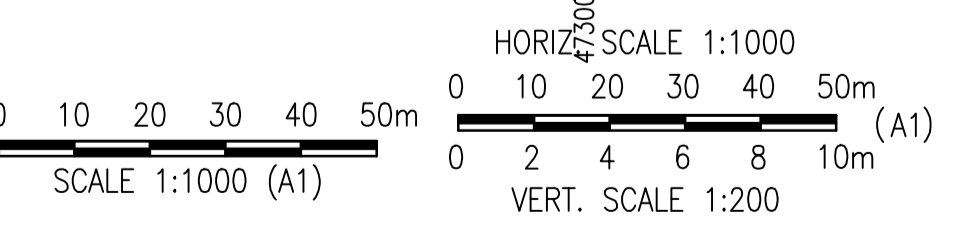
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



Station	Design Surface (RL)	Existing Surface (RL)	Cut/Fill Depth (m)
47300.000	356.570	356.372	0.248
47300.871	356.600	356.350	0.250
47350.000	359.193	357.913	0.279
47350.871	358.219	357.945	0.274
47400.000	359.642	359.370	0.272
47400.871	359.665	359.399	0.266
47450.000	361.001	360.799	0.201
47500.000	362.360	362.191	0.169
47509.848	362.677	362.432	0.196
47550.000	363.643	363.574	0.069
47559.848	363.869	363.789	0.080
47600.000	364.696	364.459	0.237
47609.848	364.875	364.614	0.261
47650.000	365.589	365.295	0.294
47680.952	366.132	365.843	0.290
47700.000	366.454	366.133	0.320
47730.952	366.862	366.562	0.299
47750.000	367.059	366.777	0.281
47780.952	367.271	366.858	0.413
47800.000	367.368	366.932	0.436
47827.910	367.508	367.031	0.477
47850.000	367.642	367.057	0.585
47877.910	367.880	367.099	0.781
47900.000	368.122	367.371	0.751
47927.910	368.496	367.802	0.693
47950.000	368.872	368.325	0.496
48000.000	369.559	369.203	0.356



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

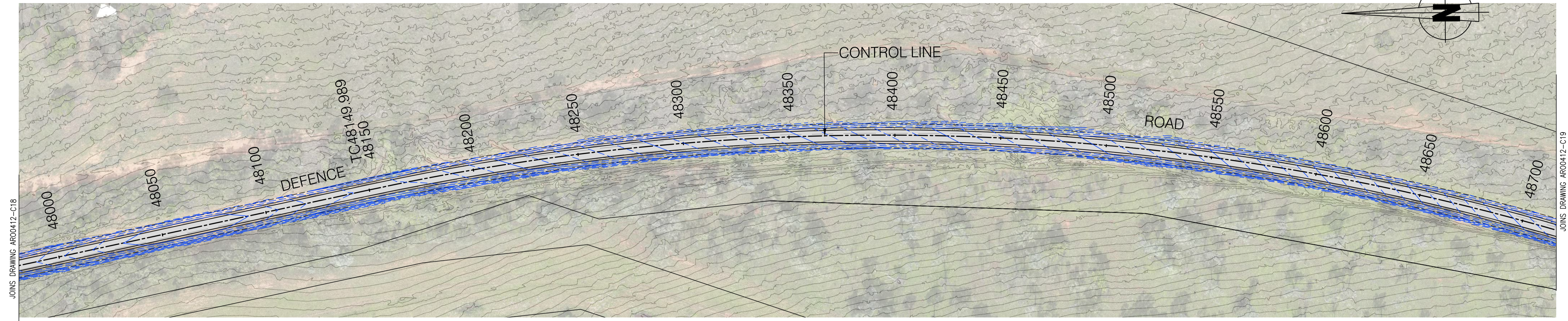
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024

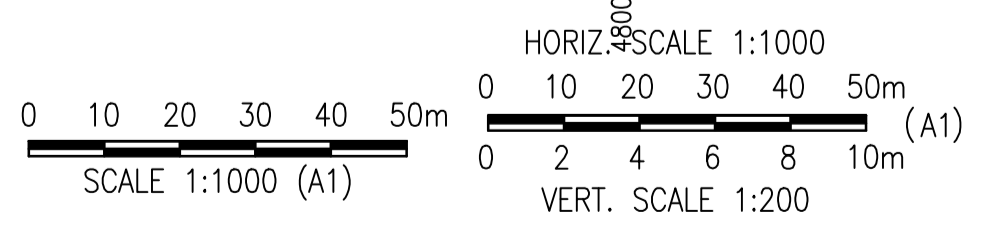
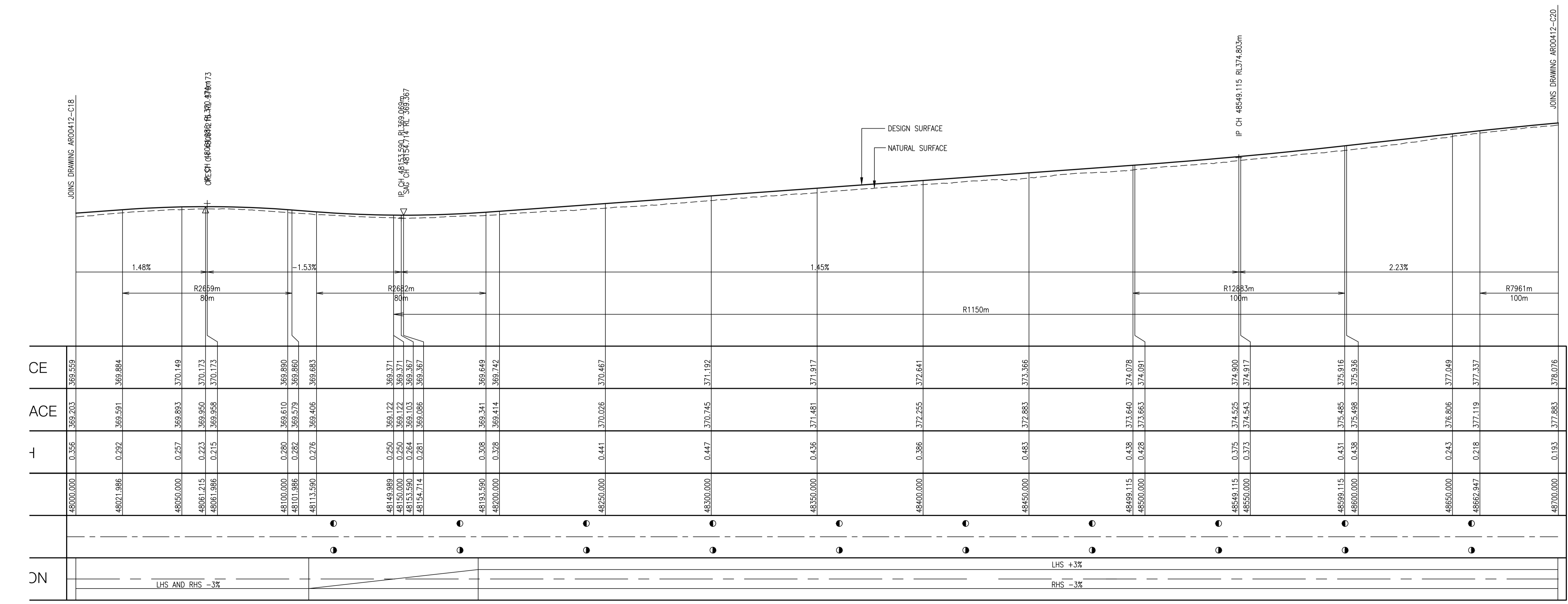


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 17 OF 47

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date



PLAN
SCALE 1:1000



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024

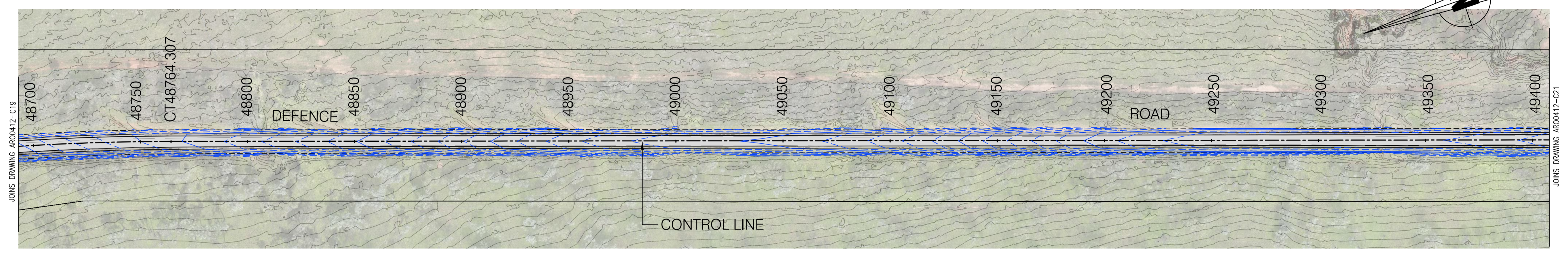


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 18 OF 47

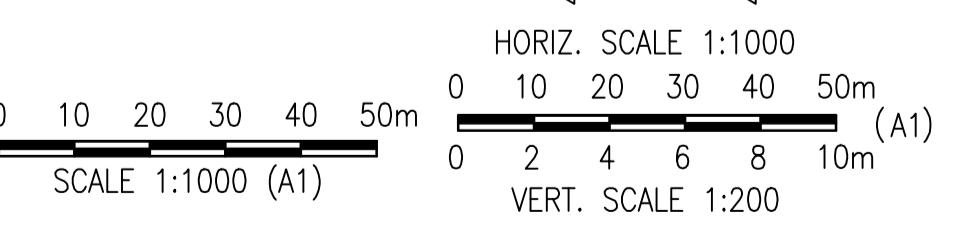
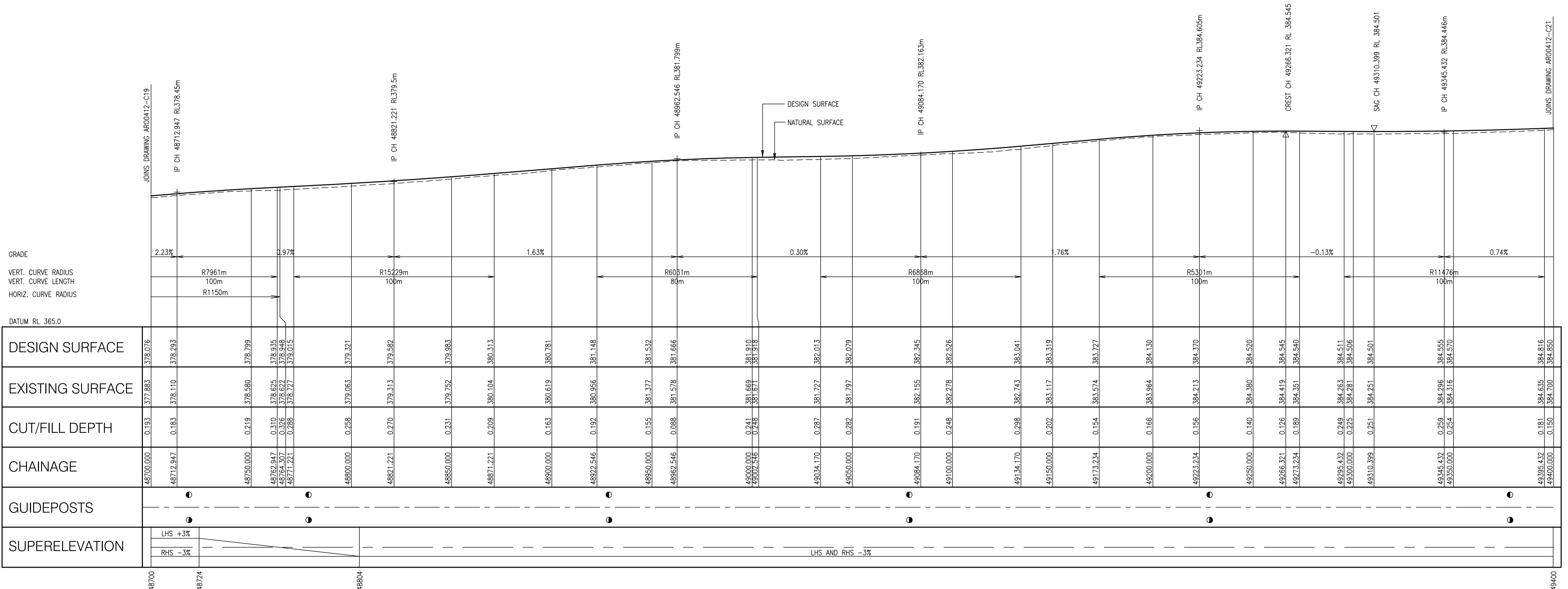
Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

Drawing is not to be used for construction unless approved.

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

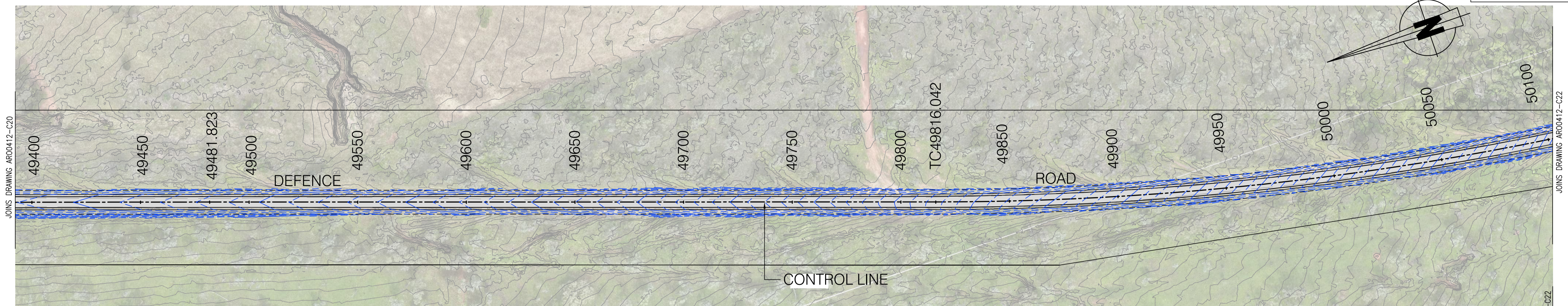
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



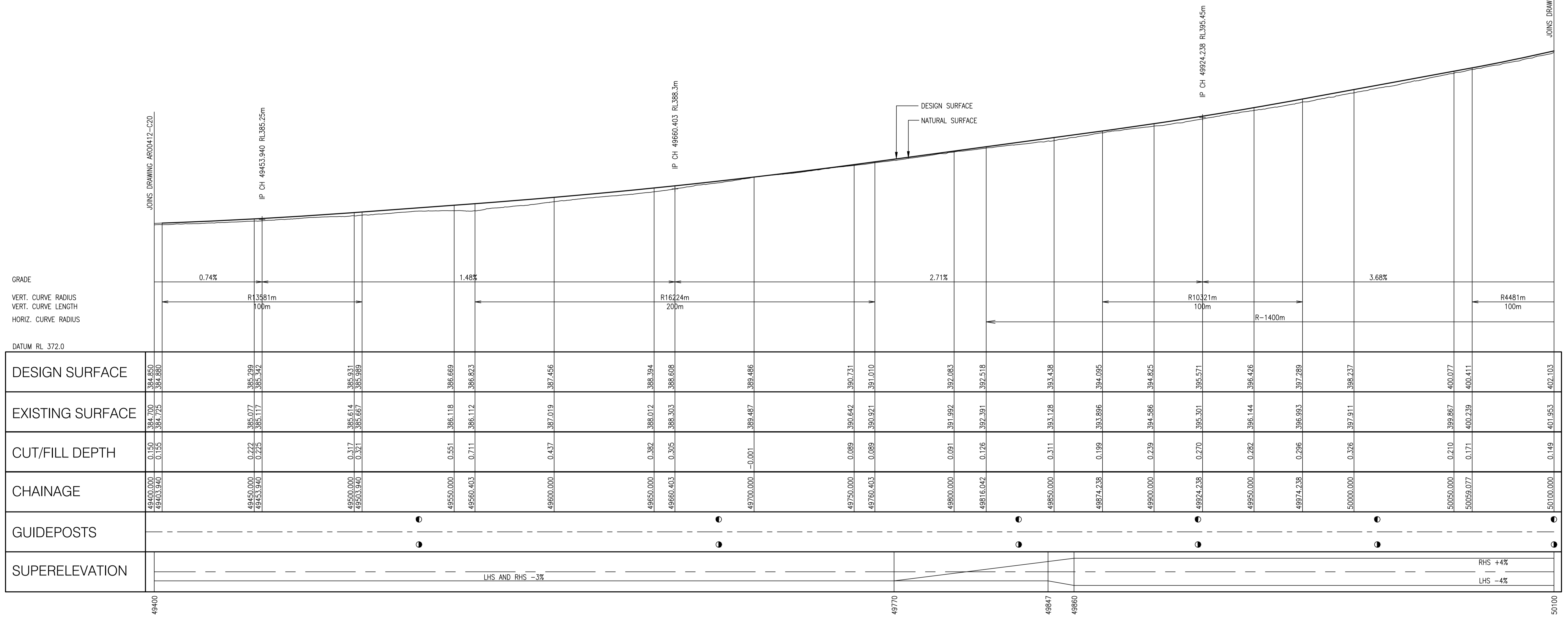
Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 19 OF 47

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

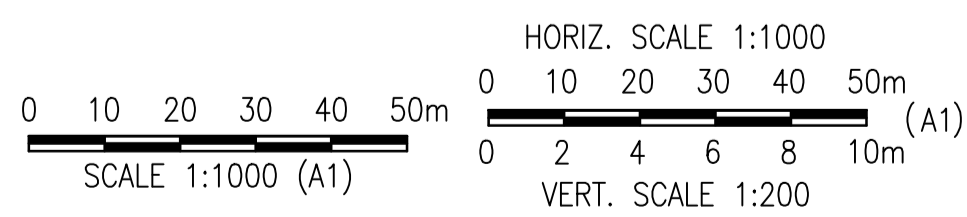
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6997
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 59 641 461 298



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



NOTES

- REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



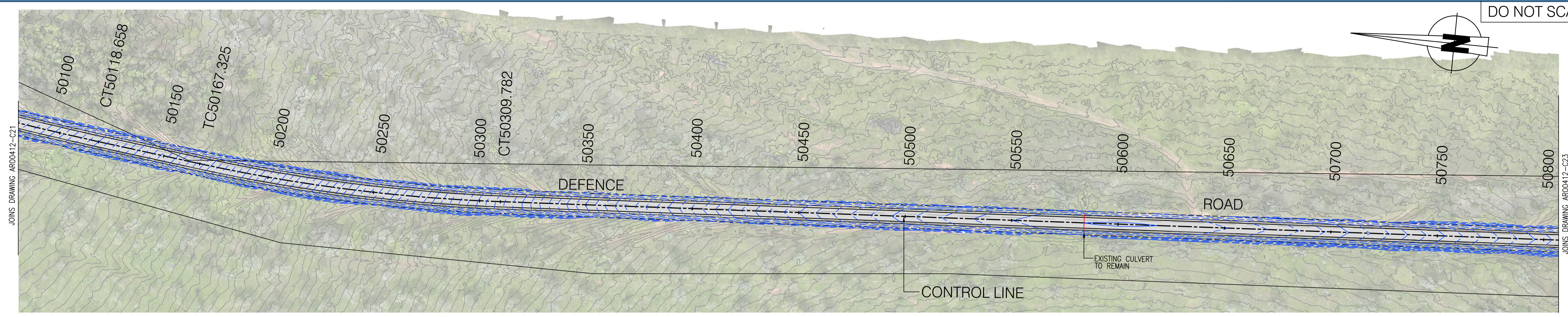
Client	BANANA SHIRE COUNCIL
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title	WORKING PLAN - SHEET 20 OF 47

Drawn	MS	Designed	MS	Approved	
Drawing Check		Design Check		RPEQ	Date

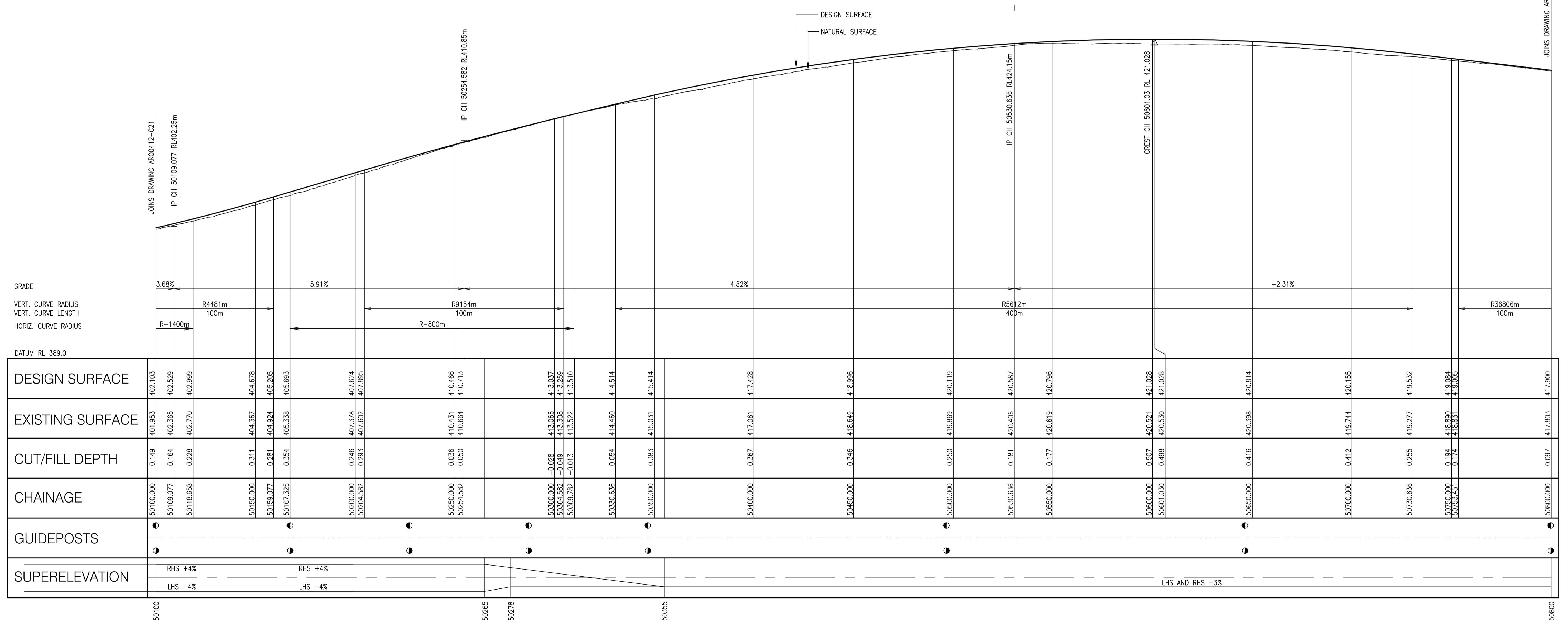
Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.

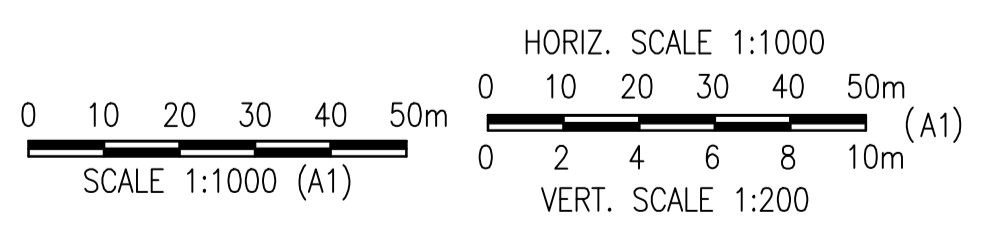
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@aroindustries.com.au
W www.aroindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

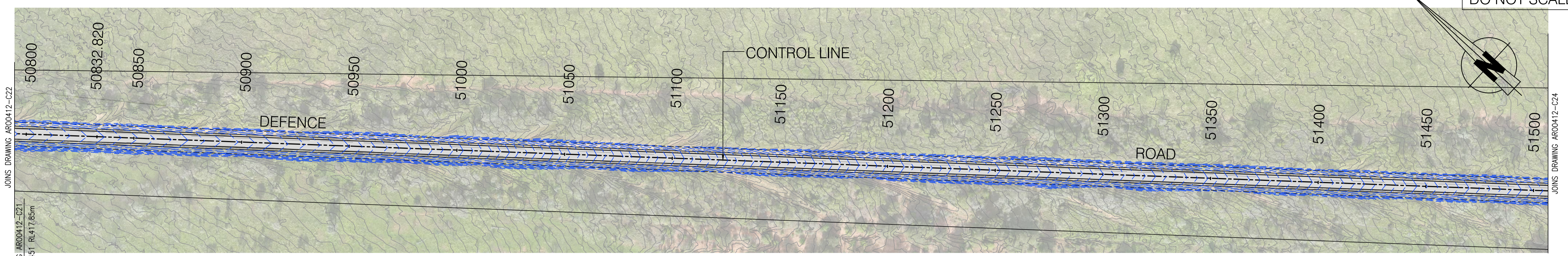
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



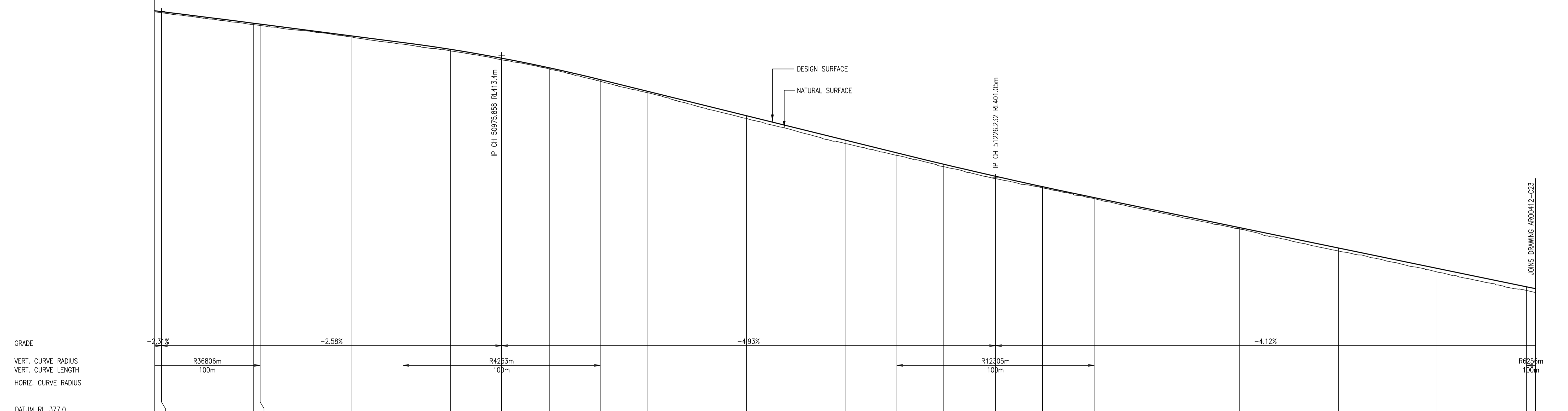
Client	BANANA SHIRE COUNCIL		
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499		
Title	WORKING PLAN - SHEET 21 OF 47		
Drawn	MS	Designed	MS
Approved	RPEQ	Date	

Scale (A1 size)	Drawing is not to be used for construction unless approved.		
-----------------	---	--	--

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



GRADE	-2.31%		-2.58%		-4.93%		-4.12%																						
VERT. CURVE RADIUS	R36806m		R4253m		R12305m		R6256m																						
VERT. CURVE LENGTH	100m		100m		100m		100m																						
HORIZ. CURVE RADIUS																													
DATUM RL	377.0																												
DESIGN SURFACE	50800.000	417.803	416.648	415.358	413.106	407.277	404.810	403.516	401.152	399.999	398.990	398.011	395.951	393.891	391.831	389.960	389.773												
EXISTING SURFACE	50800.000	417.803	416.498	415.247	412.841	410.771	409.602	408.743	407.277	406.466	403.260	402.367	400.914	399.984	398.883	397.867	395.811	393.563	391.465	389.568	389.379	389.773							
CUT/FILL DEPTH	0.097	0.105	0.150	0.142	0.164	0.162	0.141	0.274	0.344	0.256	0.249	0.237	0.114	0.107	0.144	0.139	0.308	0.366	0.372	0.394	0.394	0.394							
CHAINAGE	50800.000	50803.451	50850.000	50853.451	50900.000	50925.858	50950.000	50975.858	51000.000	51025.858	51050.000	51075.858	51100.000	51125.858	51150.000	51176.232	51200.000	51226.232	51250.000	51276.232	51300.000	51326.232	51350.000	51376.232	51400.000	51426.232	51450.000	51476.232	51500.000
GUIDEPOSTS	●				●				●					●					●					●				●	
SUPERELEVATION	LHS AND RHS -3%																												



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT

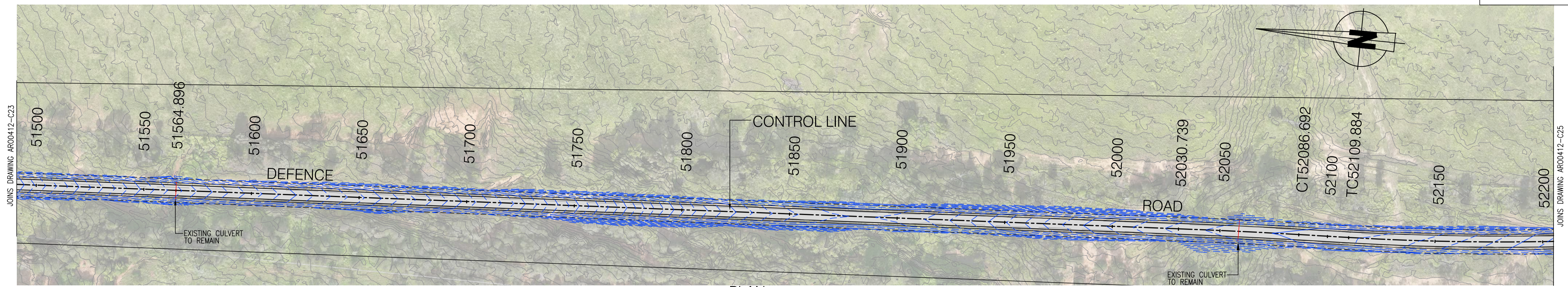
NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024

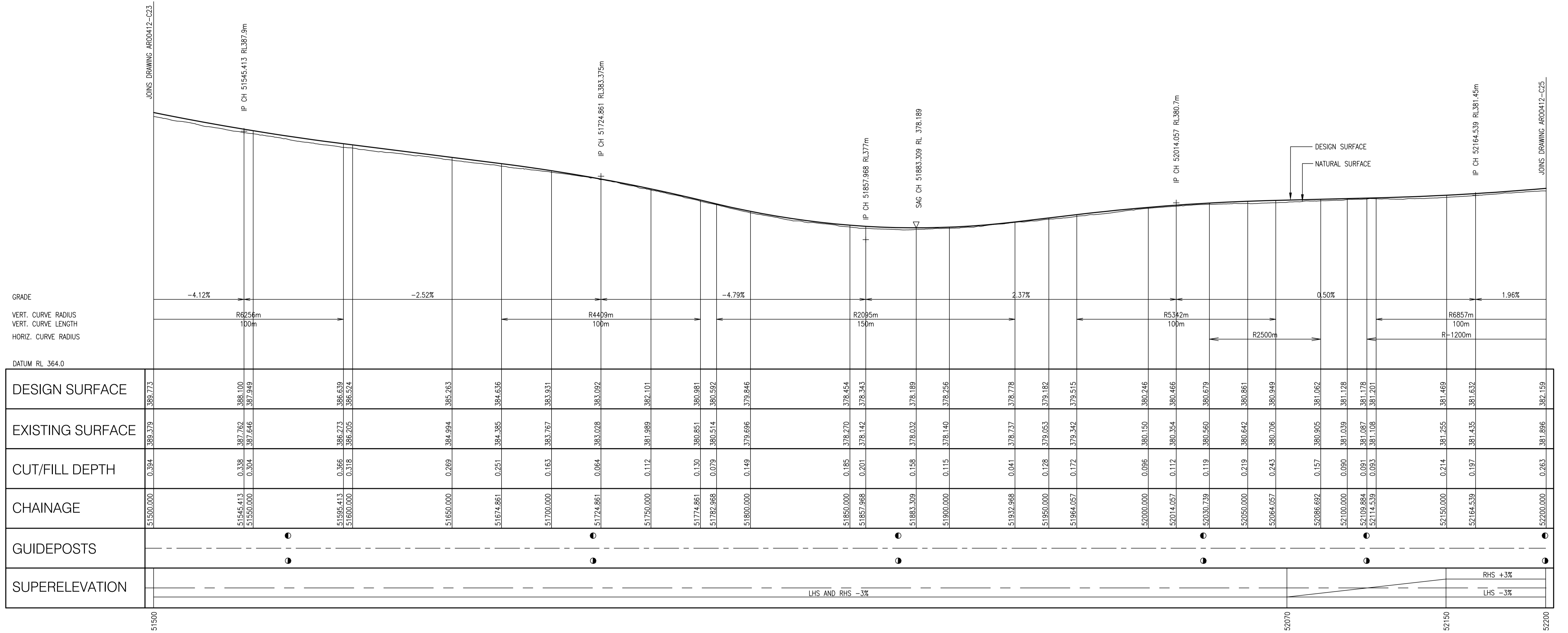


Client	BANANA SHIRE COUNCIL		
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499		
Title	WORKING PLAN - SHEET 22 OF 47		
Drawing No.	ARO0412-C23		

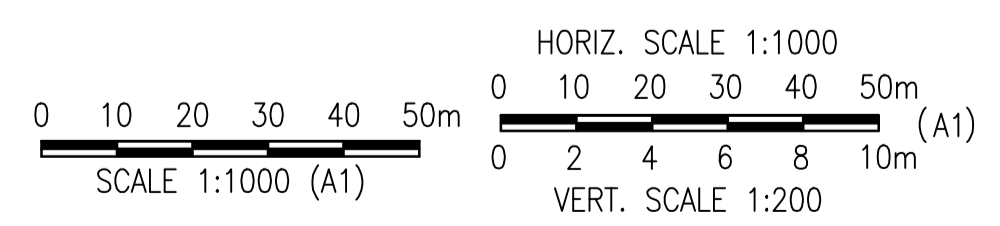
Drawn	MS	Designed	MS	Approved		Scale (A1 size)
Drawing Check		Design Check		RPEQ	Date	Drawing is not to be used for construction unless approved.



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



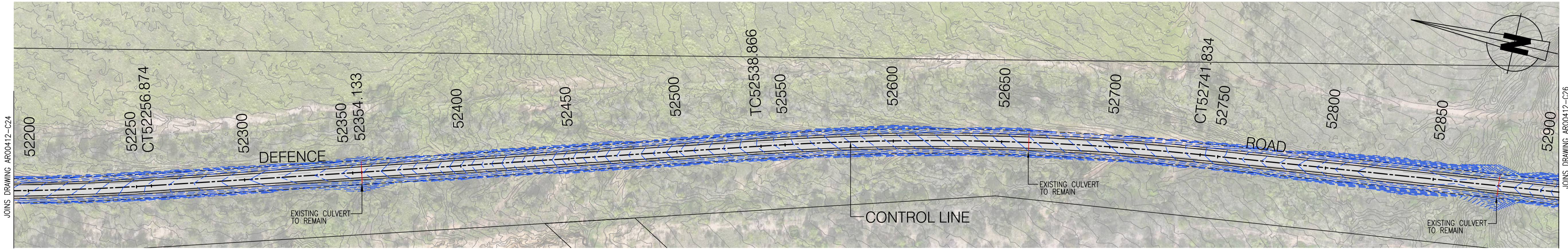
Client	BANANA SHIRE COUNCIL		
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499		
Title	WORKING PLAN - SHEET 23 OF 47		

Drawn	MS	Designed	MS	Approved	
Drawing Check		Design Check		RPEQ	Date

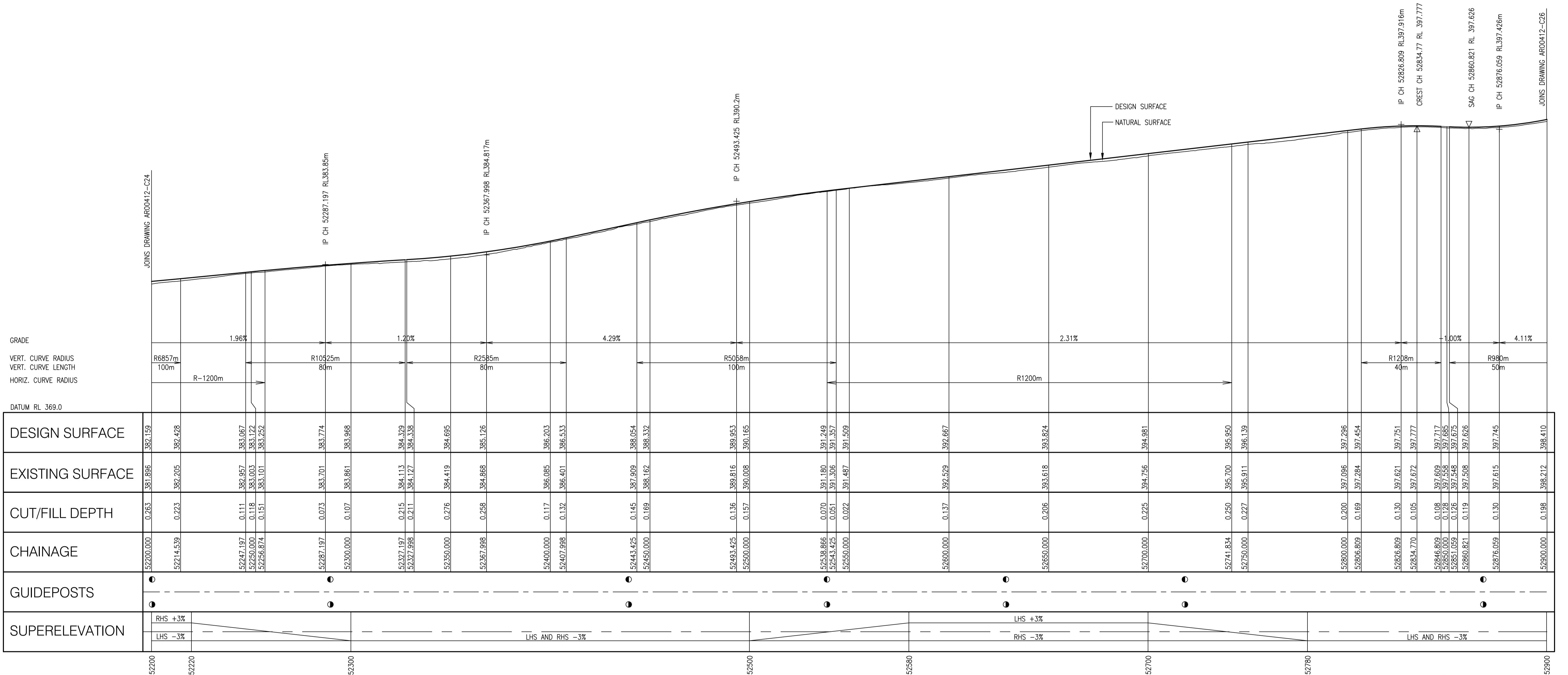
Scale (A1 size)
AS SHOWN

Drawing is not to be used for construction unless approved.

51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000

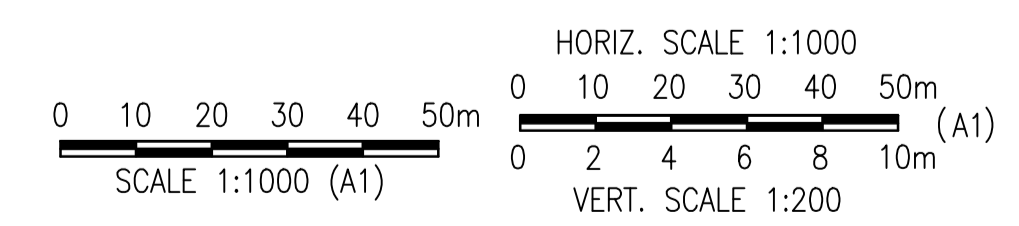


DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT

NOTES

- REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

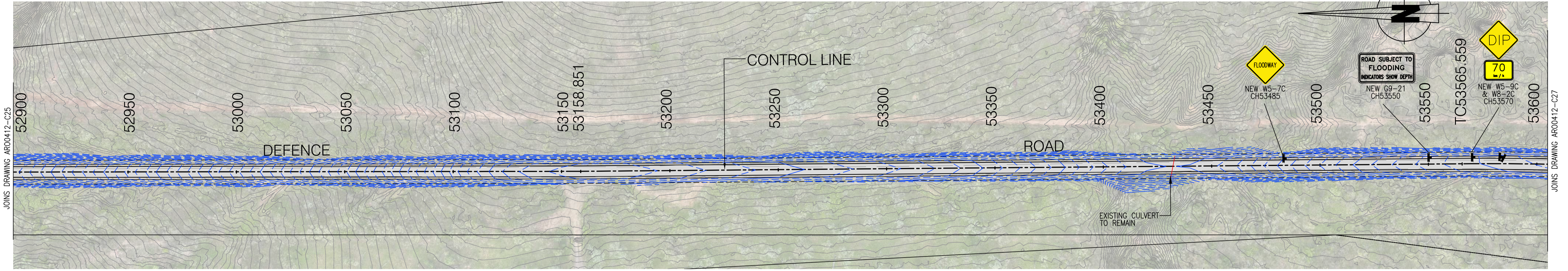


No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024

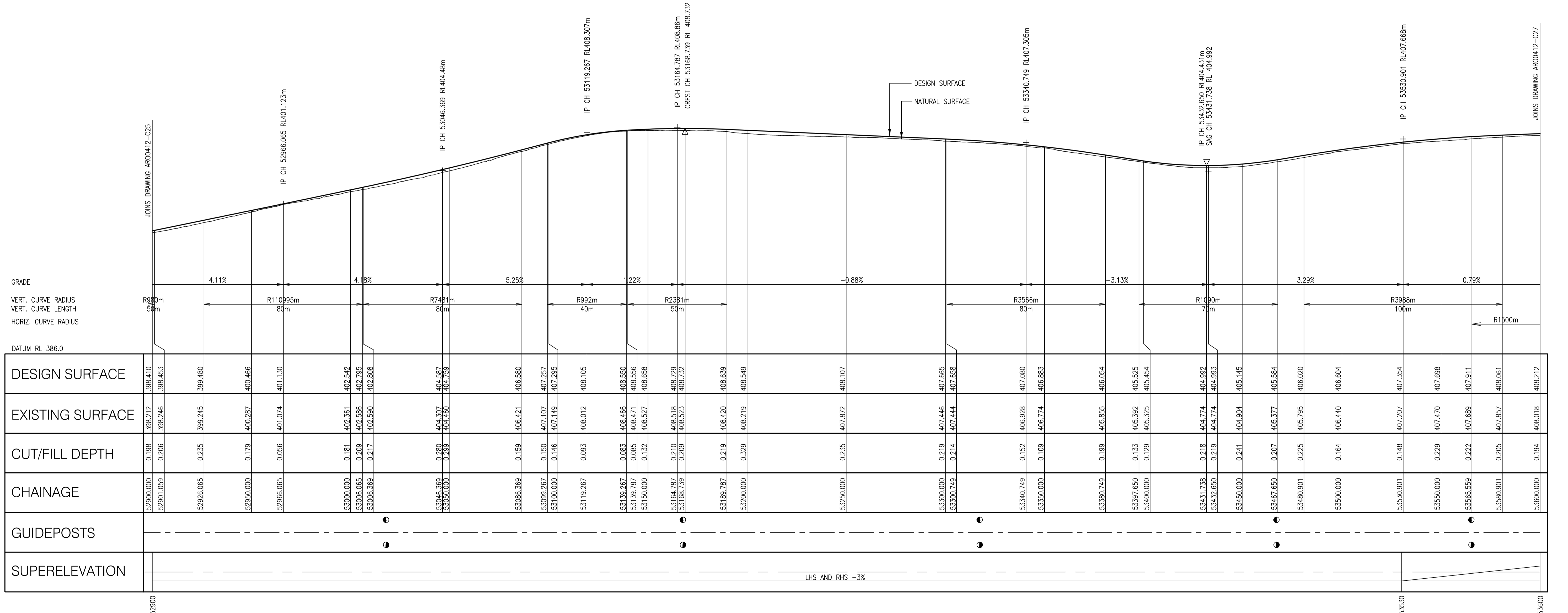


Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 24 OF 47

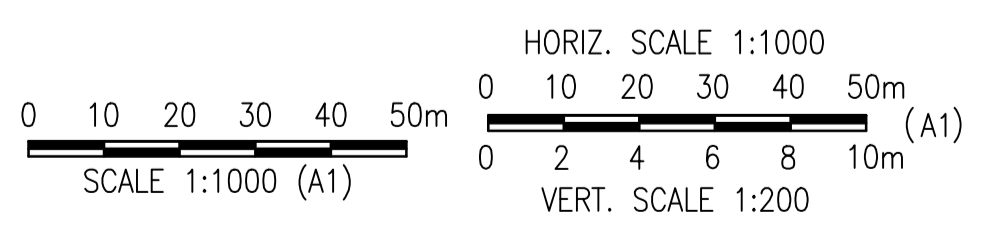
Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



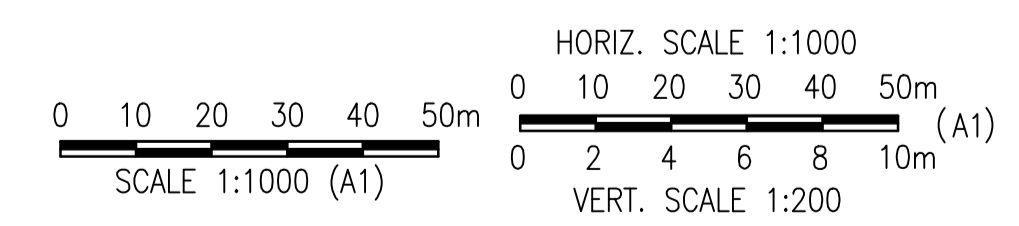
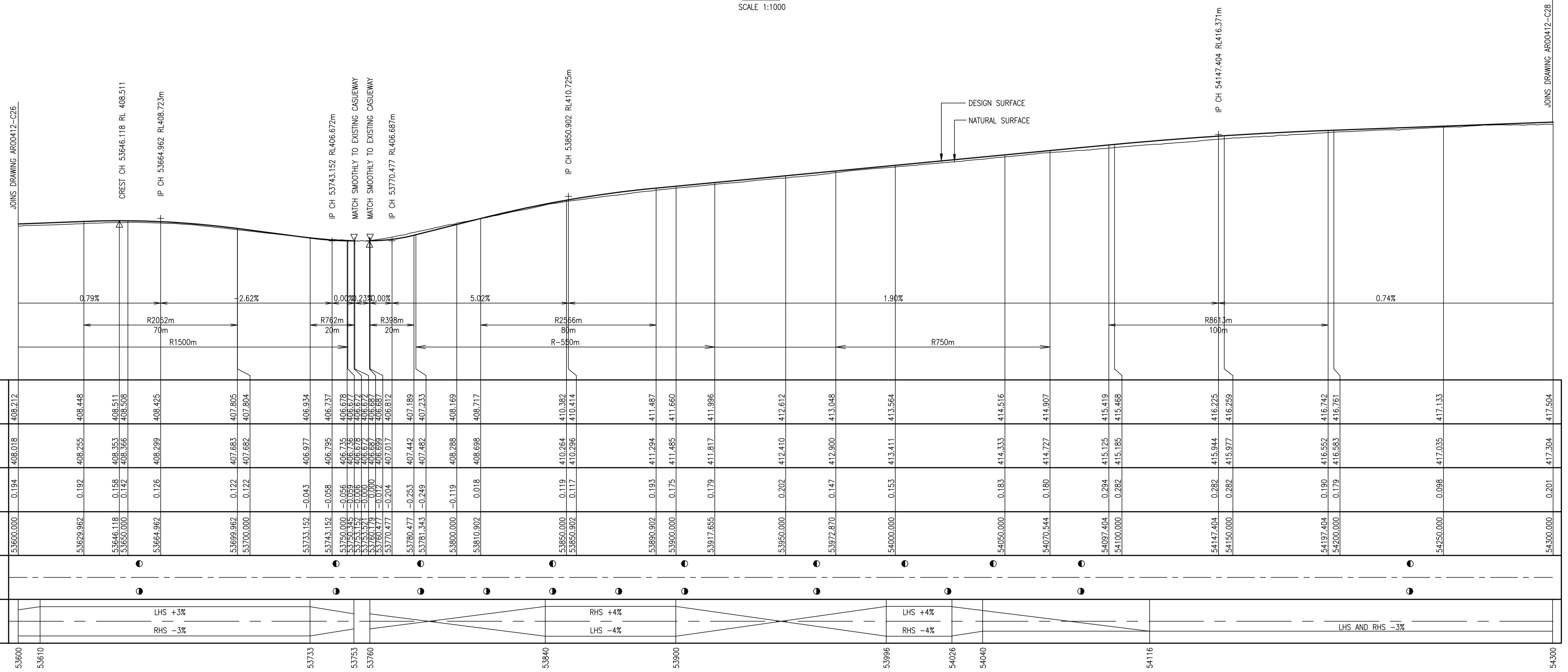
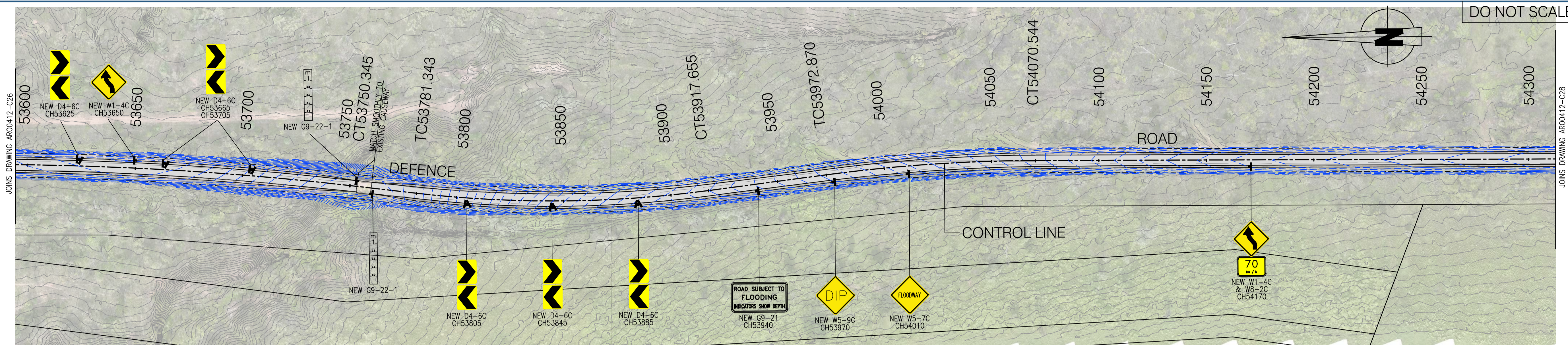
NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.
TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



Client	BANANA SHIRE COUNCIL		
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499		
Title	WORKING PLAN - SHEET 25 OF 47		

Drawn	MS	Designed	MS	Approved		Scale (A1 size)	AS SHOWN
Drawing Check		Design Check		RPEQ	Date	Drawing is not to be used for construction unless approved.	



NOTES
1. REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

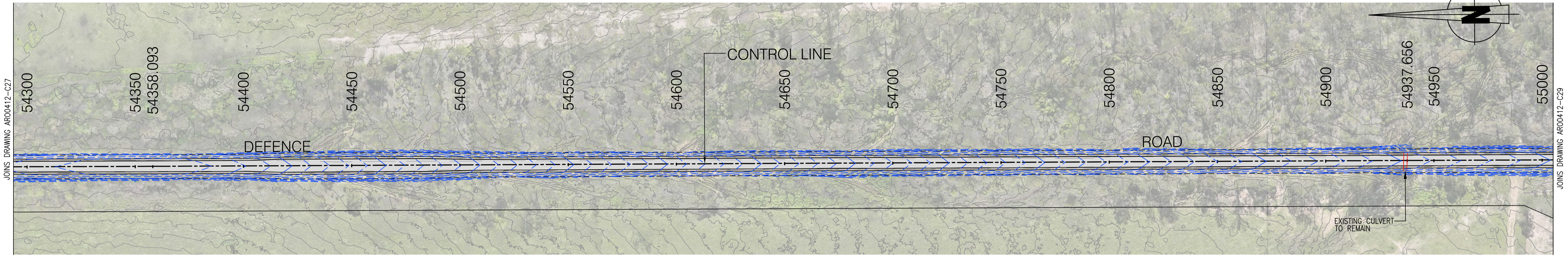
No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY	-	-	23/08/2024



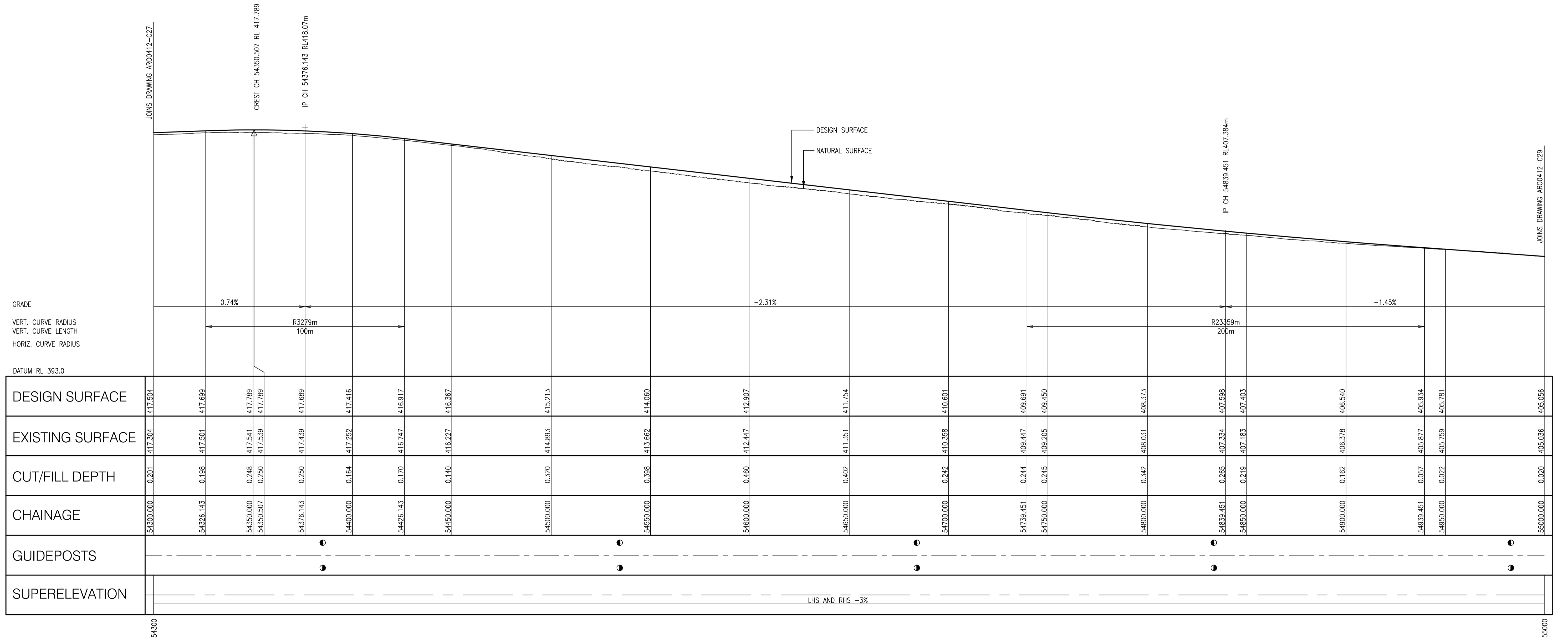
Client: BANANA SHIRE COUNCIL
Project: DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499
Title: WORKING PLAN - SHEET 26 OF 47

Drawn	Designed	Approved	Scale (A1 size)
MS	MS		AS SHOWN
Drawing Check	Design Check	RPEQ	Date

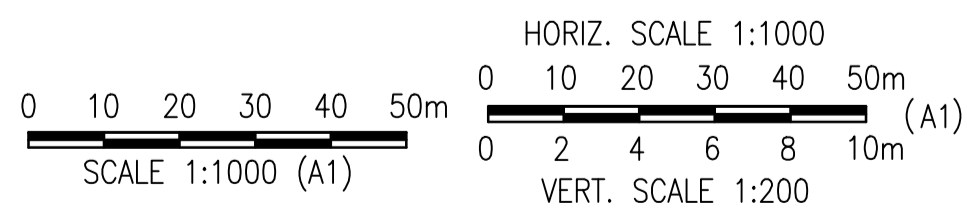
51 Sheridan Street
Cairns Qld 4870
T (07) 4281 6897
E admin@arindustries.com.au
W www.arindustries.com.au
ABN: 49 641 461 298



PLAN
SCALE 1:1000



DESIGN CONTROL LINE LONGITUDINAL SECTION
SCALE 1:1000 HOR, 1:200 VERT



NOTES

- REFER TO DRAWING ARO0412-C49 FOR LEGEND AND ARO0412-C01 FOR NOTES.

TENDER ISSUE ONLY

No.	Description	Reviewed	Approved	Date
1	TENDER ISSUE ONLY			23/08/2024



Client	BANANA SHIRE COUNCIL		
Project	DEFENCE ROAD UPGRADE - CH 36,172 - CH68,499		
Title	WORKING PLAN - SHEET 27 OF 47		

Drawn	MS	Designed	MS	Approved		Scale (A1 size)	AS SHOWN
Drawing Check		Design Check		RPEQ	Date	Drawing is not to be used for construction unless approved.	