

SNA CIVIL AND STRUCTURAL ENGINEERS (PTY) LTD		PROJECT No.: TP1916-2	SHEET: 001											
BRIDGE B3297		TITLE: EMERGENCY REPAIR	DATE: 2020-03-27											
PARAPETS		DRG REF:	REV No.:											
MEMBER	BAR MARK	TYPE	DIA	No. OF UNITS	BAR PER UNIT	TOTAL No. OF BARS	CUT LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)	
DECK REIN.	A01	Y12	1	1678	1678	1550	37	150	(1400)					
	A02	Y16	1	96	96	450	20	450						
	A03	Y16	1	96	96	1250	990	560	450	(480)				
	A04	Y16	1	94	94	450	20	450						
	A05	Y16	1	94	94	1250	990	560	450	(480)				
4850 INNER	B01	Y12	22	24	528	1050	99R	360	305	340	(390)			
	B02	Y12	22	24	528	3000	99W	630	315	675	70			
	B03	Y12	22	18	396	1900	99AB	300	170	490	170	690		
	B04	R8	22	47	1034	950	99X	135	230	250	25	25		
	B05	R10	22	16	352	1250	60	340	195					
	B06	Y16	22	6	132	4600	20	4600						
	B07	Y12	22	17	374	4600	20	4600						
4850 EDGE	B01	Y12	18	47	848	1050	99R	360	305	340	(390)			
	B02	Y12	18	47	848	2000	99W	630	315	675	70			
	B03	Y12	18	18	324	1900	99AB	300	170	490	170	690		
	B04	R8	18	47	848	950	99X	135	230	250	25	25		
	B05	R10	18	16	288	1250	60	340	195					
	B06	Y16	18	6	108	4600	20	4600						
	B07	Y12	18	17	306	4600	20	4600						
4850 INNER	C01	Y12	8	25	200	1050	99R	360	305	340	(390)			
	C02	Y12	8	25	200	2000	99W	630	315	675	70			
	C03	Y12	8	18	144	1900	99AB	300	170	490	170	690		
	C04	R8	8	49	392	950	99X	135	230	250	25	25		
	C05	R10	8	16	128	1250	60	340	195					
	C06	Y16	8	6	48	4750	20	4750						
	C07	Y12	8	17	136	4750	20	4750						
REINFORCEMENT MASSES (kg)													DETAILED BY:	
DIAMETER	6	8	10	12	16	20	25	32	40	TOTAL				M. WATTS
MILD STEEL		852.6	592.3							1445				CHECKED BY:
H.T. STEEL					11381.7	2611.6				13993				G. SKINNER

SNA CIVIL AND STRUCTURAL ENGINEERS (PTY) LTD		PROJECT No.: TP1916-2	SHEET: 002											
BRIDGE B3297		TITLE: EMERGENCY REPAIR	DATE: 2020-03-27											
ENDBLOCK SUPPORT WALLS		DRG REF:	REV No.:											
MEMBER	BAR MARK	TYPE	DIA	No. OF UNITS	BAR PER UNIT	TOTAL No. OF BARS	CUT LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)	
4850 EDGE	D01	Y12	6	49	294	1050	99R	360	305	340	(390)			
	D02	Y12	6	49	294	2000	99W	630	315	675	70			
	D03	Y12	6	18	108	1900	99AB	300	170	490	170	690		
	D04	R8	6	49	294	950	99X	135	230	250	25	25		
	D05	R10	6	16	96	1250	60	340	195					
	D06	Y16	6	6	36	4750	20	4750						
	D07	Y12	6	17	102	4750	20	4750						
4850 INNER	D01	Y16	4	16	64	4000	55	500	350	2425	350	(500)		
	D02	Y16	4	26	104	3450	38	300	2900	(300)				
	D03	Y16	4	16	64	1400	37	250	(1150)					
	D04	Y12	4	16	64	1350	37	200	(1150)					
	D05	Y16	4	16	64	2950	38	2425	(300)					
	D06	Y10	4	3	12	1400	83	300	300	(300)				
	D07	Y12	4	10	40	3200	37	2900	(300)					
	D08	Y12	4	1	4	900	20	900						
	D09	Y12	4	10	40	2900	20	2900						
	D10	R10	4	6	24	500	85	80	325	80	(80)			
	D11	Y12	4	1	4	900	20	900						
	D12	Y12	4	10	40	1650	38	430	840	(430)				
	D13	Y16	4	6	24	1950	20	1950						
	D14	Y12	4	6	24	1950	20	1950						
	D15	Y16	4	10	40	1600	20	1600						
	D16	Y12	4	10	40	1600	20	1600						
	D17	Y16	4	2	8	1500	38	150	900	(500)				
	D18	Y16	4	2	8	2950	37	2500	(150)					
	D19	Y16	4	1	4	1100	38	150	840	(150)				
	D20	Y12	4	1	4	1750	38	1400	165	(250)				
	D21	Y12	4	1	4	1800	38	1400	195	(250)				
	D22	Y12	4	1	4	1850	38	1400	225	(250)				
	D23	Y12	4	1	4	1850	38	1400	255	(250)				
	D24	Y12	4	1	4	1900	38	1400	285	(250)				
	D25	Y12	4	1	4	1900	38	1400	315	(250)				
	D26	Y12	4	1	4	1900	38	1400	280	(250)				
	D27	Y12	4	1	4	1000	85	100	580	155	(250)			
REINFORCEMENT MASSES (kg)													DETAILED BY:	
DIAMETER	6	8	10	12	16	20	25	32	40	TOTAL				M. WATTS
MILD STEEL		1103.3	81.4							192				CHECKED BY:
H.T. STEEL					1915.1	1913.5				3839				G. SKINNER

SNA CIVIL AND STRUCTURAL ENGINEERS (PTY) LTD		PROJECT No.: TP1916-2	SHEET: 003											
BRIDGE B3297		TITLE: EMERGENCY REPAIR	DATE: 2020-03-27											
ENDBLOCK SUPPORT WALLS		DRG REF:	REV No.:											
MEMBER	BAR MARK	TYPE	DIA	No. OF UNITS	BAR PER UNIT	TOTAL No. OF BARS	CUT LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)	
ENDBLOCK SUPPORT WALL	D28	Y12	4	1	4	1000	85	100	580	190	(250)			
	D29	Y12	4	1	4	1100	38	870	240	(250)				
	D30	Y12	4	1	4	1150	38	870	280	(250)				
	D31	Y12	4	1	4	1200	38	890	290	(250)				
	D32	Y12	4	8	32	1250	38	700	345	(250)				
	D33	Y20	4	1	4	1850	39	1540	165	(250)				
	D34	Y16	4	1	4	1500	39	1150	165	(250)				
	D35	Y16	4	1	4	1950	99R	1080	470	330				
	D36	Y16	4	1	4	2000	99G	1020	545	370				
	D37	Y16	4	1	4	1450	38	140	1050	130	(140)			
	D38	Y16	4	2	8	1950	99G	930	615	430				
	D39	Y16	4	6	24	1650	99G	820	615	430				
	D40	Y10	4	12	48	1300	38	500	325	(500)				
	D41	Y10	4	5	20	1500	38	500	550	(500)				
REINFORCEMENT MASSES (kg)													DETAILED BY:	
DIAMETER	6	8	10	12	16	20	25	32	40	TOTAL				M. WATTS
MILD STEEL										365				CHECKED BY:
H.T. STEEL					57	51.3	130.7	146						G. SKINNER

SNA CIVIL AND STRUCTURAL ENGINEERS (PTY) LTD		PROJECT No.: TP1916-2	SHEET: 004										
BRIDGE B3297		TITLE: EMERGENCY REPAIR	DATE: 2020-03-27										
ENDBLOCKS		DRG REF:	REV No.:										
MEMBER	BAR MARK	TYPE	DIA	No. OF UNITS	BAR PER UNIT	TOTAL No. OF BARS	CUT LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)
ENDBLOCKS	E01	Y12	4	1	4	950	99K	470	330	240	175	(250)	
	E02	Y12	4	1	4	950	99K	440	280	265	175	(270)	
	E03	Y12	4	1	4	1050	99K	465	275	290	175	(295)	
	E04	Y12	4	1	4	1050	99V	310	155	15	100	155	
	E05	Y12	4	1	4	1150	99V	340	155	20	100	195	
	E06	Y12	4	1	4	1200	99V	355	155	25	100	216	
	E07	Y12	4	1	4	1450	99K	565	40	290	60	(335)	
	E08	Y12	4	1	4	1650	38	1180	265	(270)			
	E09	Y12	4	1	4	800	99U	300	25	240	15	145	
	E10	Y12	4	1	4	1650	38	1200	265	(220)			
	E11	Y16	4	1	4	1450	99F	330	620	220	(150)	270	
	E12	Y12	4	1	4	1250	37	1120	(130)				
	E13	Y12	4	1	4	800	99U	300	25	240	15	155	
	E14	R10	4	1	4	450	38	100	250	(100)			
	E15	R10	4	1	4	450	38	100	250	(100)			
	E16	Y12	4										