FOR GUARDRAIL DETAILS SEE SHEETS (54-62)

GUARDRAIL AND RELATED QUANTITIES

SHEET NO.	REFERENCE NO.	EXISTING LOCATIONS FROM	EXISTING LOCATIONS TO	PROPOSED LOCATIONS FROM	PROPOSED LOCATIONS TO	DIRECTION	SIDE	202 LENGTH OF NEED (FOR FIXED OBJECTS) L.F.	202 GUARDRAIL REMOVED L.F.	606 GUARDRAIL, TYPE 5 L.F.	606 GUARDRAIL, TYPE 5 BARRIER DESIGN L.F.	606 GUARDRAIL, TYPE 5A L.F.	606 THRIE BEAM RAIL AND TRANSITION SECTION L.F.		606 ANCHOR ASSEMBLY, TYPE E-98 EACH	606 ANCHOR ASSEMBLY, TYPE T EACH	606 IMPACT ATTENUATOR, TYPE I-98 (BIDIRECTIONAL) EACH	606 IMPACT ATTENUATOR, TYPE I-98 (UNIDIRECTIONAL) EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 3 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN EACH		622 CONCRETE BARRIER, TYPE D L.F.	517 RAILING, MISC.: TBR RAILING L.F.	203 LINEAR GRADING, METHOD A STA.	448 ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I, PG64-22 (UNDER GUARDRAIL) C.Y.	626 BARRIER REFLECTOR, TYPE A L.F.	626 BARRIER REFLECTOR, TYPE B L.F.
34	GR-1	269+89.00	271+01.50	268+39.00	271+01.50	NB	RT	240	112.5	212.5					1								1				2.6	10.3	4	
34,35	GR-2	270+74.00	272+80.00	268+35.00	275+35.00	NB	LT$	267	187.5	637.5					1	1											7.0	33.9	8	
34	GR-3	270+74.00	272+80.00			SB	LT		187.5																					
34,35	GR-4	272+43.00	276+43.00	272+43.00	276+58.00	SB	RT	125	400	275					1				1	1			1		90		4.2	12.6	4	1
35	GR-5	273+32.00	275+44.50	273+34.50	275+27.00	NB	RT	125	212.5	62.5					1				1						80		1.9	4.7	2	1
35	GR-6	273+87.00	275+87.00			NB	LT		200																					
34,35	GR-7	273+87.00	275+87.00	271+15.50	278+03.00	SB	LT$	300	200	625					1	1											6.9	38.8	8	
35	GR-8	281+90.00	283+90.00	281+06.00	283+66.00	NB	RT	200	200	150					1				1						60		2.6	8.0	3	
35	GR-9	282+64.00	284+39.00	380+40.00	383+90.00	NB	LT$	300	162.5	287.5					1	1											3.5	20.0	4	
35	GR-10	282+64.00	284+39.00	283+12.00	286+52.00	SB	LT$	300	162.5	287.5					1	1											3.4	19.5	4	
35	GR-11	283+10.00	285+10.00	283+35.00	285+07.50	SB	RT	116	200	62.5					1				1						60		1.7	4.7	3	
35,36	GR-12	294+77.00	310+14.50	293+27.50	310+14.50	NB	RT		1537.5	1600			37.5		1							1					16.9	63.1	18	
35,36	GR-13	295+64.00	310+14.50	295+52.00	310+14.50	SB	RT		1450	1450						1						1					14.6	54.2	16	
36	GR-14	303+75.00	305+25.00	303+02.00	310+14.50	NB	LT	186	150	637.5		25			1							1					7.1	27.0	8	
36	GR-15	308+64.50	310+14.50			NB	LT		137.5																					
36	GR-16			310+14.50	312+38.50	NB	RT																			224			2	
36	GR-17			310+14.50	312+38.50	NB	LT																			224			2	
36	GR-18			310+14.50	312+38.50	SB	LT																			224			2	
36	GR-19			310+14.50	312+38.50	SB	RT																			224			2	
36,37,39	GR-20	312+38.50	10+03.97*	312+38.50	9+16.47*	NB	RT		2900	2775		25				1										28.1	104.2	30	
36	GR-21	312+38.50	1+18.50#	312+38.50	3+31.00#	SB	LT	320	125	287.5					1							1				3.4	13.1	4	
36,37	GR-22	312+38.50	19+06.00#	312+38.50	20+06.00#	SB	RT		1912.5	1962.5					1							1				20.1	75.1	21	
36,37,39	GR-23	40+04.00	18+29.00	41+91.50	18+29.00	NB	LT		2175	2287.5		25			1							1				23.6	88.1	25	
36,37	GR-24	8+50.00	19+50.00	8+37.50	20+87.50	SB	LT		1100	1187.5					1	1										12.5	46.9	13	
37,39	GR-25	24+59.50	29+72.00	24+59.50	29+72.00	SB	LT		512.5	500						1						1				5.1	19.0	6	
37,39	GR-26	24+62.50	29+50.00	24+62.50	29+50.00	SB	RT		487.5	475						1						1				4.9	18.1	6	
37	GR-27	11+75.00	13+75.00	10+45.00	13+57.50	SB	RT	240	200	250					1	1										3.1	12.2	4	
37,39	GR-28	4+00.00	9+50.00	3+75.00	9+62.50	NB	LT$		550	575						1										5.8	32.6	7	
37,39	GR-29	18+49.50	24+24.50	18+49.50	24+80.50	NB	RT		575	587.5	12.5							1				1				6.3	23.4	7	
38,39	GR-30	8+97.00	14+34.50	7+84.50	14+34.50	NB	RT		537.5	637.5						1						1				6.5	24.1	7	
38,39	GR-31	8+23.00	13+98.00	8+85.50	13+98.00	NB	LT		575	500						1						1				5.1	19.0	6	
39	GR-32	32+78.00	39+15.50	32+78.00	40+53.00	SB	RT	240	637.5	725					1							1				7.8	29.3	8	
39	GR-33	33+12.00	37+87.00	33+12.00	40+37.00	SB	LT	320	475	675					1							1				7.3	27.4	8	
39	GR-34			13+98.00	18+29.00	NB	LT																			431			4	
39	GR-35			14+34.50	18+49.50	NB	RT																			415			4	
39	GR-36			29+50.00	32+78.00	SB	RT																			328			3	
39	GR-37			29+72.00	33+12.00	SB	LT																			340			3	
38	GR-38	585+75.00	587+25.00	585+50.00	587+25.00	EB	RT	129	150	87.5		25			1	1											1.8	7.1	3	
38	GR-39	586+75.00	588+25.00	586+75.00	588+37.50	WB	RT	115	150	75		25			1	1											1.6	6.6	3	
38	GR-40	599+45.00	600+95.00	599+65.00	601+15.00	EB	RT	85	150	50			37.5		1	1											1.5	6.1	3	
38	GR-41	599+45.00	600+95.00	598+90.00	601+02.50	EB	LT$	178	150	150					1	1											2.1	8.4	3	
39	GR-42	611+45.00	613+95.00	610+20.50	614+03.00	EB	RT	215	250	250					1	1			1	1					70		3.8	12.2	4	1
39	GR-43	612+59.50	616+72.00	611+78.00	615+85.50	WB	RT	124	412.5	275					1	1			1	1					70		4.1	13.1	4	1
39	GR-44	611+69.00	614+94.00	609+85.00	613+85.00	EB	LT$	280	325	337.5					1	1											4.0	22.8	5	
39	GR-45	611+69.00	614+94.00	612+72.00	616+72.00	WB	LT$	280	325	337.5					1	1											4.0	22.8	5	
TOTALS TO GENERAL SUMMARY									20175	21275	12.5	125	75		26	21		1	6	3	13	2		430	2410	234.9	928	286	4

* - STA 312+45.00 BK = STA 46+97.96 AH RAMP E TO STA 28+08.43 BK = STA 0+00.00 AH RAMP H

\# - STA 312+45.00 BK = STA 0+00.00 AH RAMP G

$ - GUARDRAIL OFFSET 4' FROM EDGE OF SHOULDER

CALCULATED EMK CHECKED LDH

GUARDRAIL QUANTITIES

LAKE COUNTY
LAK-2/44-13.05/4.14

PLOTTED FROM: I:\PROJECTS\Pid18391\dgn\18391gsa.dgn