STRUCTURAL GENERAL NOTES

SEOUENCE OF CONSTRUCTION/PROPOSED WORK

STAGE 1 CONSTRUCTION

1. INSTALL STAGE 1 M.O.T. PER PLANS.

2. INSTALL STAGE 1 TEMPORARY SHORING.
3. REMOVE STAGE 1 PORTIONS OF EXISTING ABUTMENTS,
WINGWALLS, PIERS, AND FOUNDATIONS FOR S.R. 2
BRIDGES (LAK-2-0530L&R).

4. CONSTRUCT DRILLED SHAFTS FOR RAMP D BRIDGE (LAK-2-0530 P) ABUTMENTS AND PIERS, AND DRILLED SHAFTS FOR STAGE I PORTIONS OF ABUTMENTS AND PIERS FOR S.R. 2 BRIDGES (LAK-2-0530 L&R).

5. CONSTRUCT ABUTMENTS AND PIERS FOR RAMP D BRIDGE (LAK-2-0530 P), AND STAGE 1 PORTIONS OF ABUTMENTS AND PIERS FOR S.R. 2 BRIDGES (LAK-2-0530 L&R).

6. CONSTRUCT SUPERSTRUCTURE AND APPROACH
SLABS FOR RAMP D BRIDGE (LAK-2-0530 P).
7. REMOVE STAGE 1 TEMPORARY SHORING AND M.O.T.

STAGE 2 CONSTRUCTION

PHASE B

8. INSTALL PHASE B M.O.T. PER PLANS. 9. INSTALL PHASE B TEMPORARY SHORING.

10. REMOVE PORTIONS OF EXISTING BRIDGE DECK ADJACENT TO EXISTING ABUTMENTS AND CONSTRUCT 1'-6" DIAMETER DRILLED SHAFTS AND FOOTING EXTENSION FOR PHASE B PORTIONS OF EXISTING ABUTMENTS.

11. REMOVE CROSS FRAMES IN BAYS BETWEEN PHASE CONSTRUCTION JOINTS.

12.REMOVE PHASE B PORTIONS OF EXISTING BRIDGE DECK,
PARAPETS, APPROACH SLABS, SCUPPERS, ETC.

13. JACK AND INSTALL TEMPORÁRY SUPPORTS FOR PHASE B PORTIONS OF EXISITNG SUPERSTRUCTURE.

14. CONSTRUCT PHASE B PORTIONS OF ABUTMENTS.
15. INSTALL NEW BEARINGS AT ABUTMENTS AND PIERS AND

REMOVE TEMPORARY SUPPORTS. 16. RETROFIT EXISTING BEAMS AND ERECT NEW BEAMS FOR

PHASE B INCLUDING CROSSFRAMES.

17. CONSTRUCT PHASE B PORTIONS OF ABUTMENT DIAPHRAGM,

BRIDGE DECK, AND DARABETS

BRIDGE DECK, AND PARAPETS.

18. INSTALL DRAINAGE SYSTEM AND BACKFILL BEHIND
PHASE B PORTIONS OF ABUTMENTS AND INSTALL NEW
APPROACH SLABS.

19. REMOVE PHASE B TEMPORARY SHORING AND M.O.T.

PHASE C

20. INSTALL PHASE C M.O.T. PER PLANS.

21. INSTALL PHASE C TEMPORARY SHORING. 22. REPEAT STEPS 10 THROUGH 18 FOR PHASE C. 23. REMOVE PHASE C TEMPORARY SHORING AND M.O.T.

PHASE D

24. INSTALL PHASE D M.O.T. PER PLANS. 25. INSTALL PHASE D TEMPORARY SHORING.

26. REPEAT STEPS 10 THROUGH 18 FOR PHASE D. 27. REMOVE PHASE D TEMPORARY SHORING AND M.O.T.

OTHER WORK TO BE COORDINATED WITH THE OVERALL SEQUENCE

1. INSTALL ROCK CHANNEL PROTECTION (GROUTED).
2. REPAIR PATCH SUBSTRUCTURE UNITS AS MARKED IN THE FIELD.

3. SEAL ALL EXPOSED FACES OF PIERS, WINGWALLS AND ABUTMENTS WITH EPOXY-URETHANE SEALER.

	TRUCT. IPATION		TRUCT. IPATION					Ε,	STIMATED QUANTITIES	T			CALC. BY: <u>CAF</u> CHK'D BY: <u>CMD</u>	DATE:			AS PER PLAN
I	II	I REHAB	II TRAC		ITEM	LEFT	RIGHT	UNIT		L	LEFT STRUCTURE			RIGHT STRUCTURE			STRUCTURE
REHAB	TRAC				EXT.	TOTAL	STRUCT. Total			SUPER	ABUT'S	PIER'S	GEN. SUPER	ABUT'S	PIER'S	GEN.	d outer No
LUMP		LUMP		202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP		4, 11, 12, 13, 14, 29
294		227		202	22901	294	227	SQ. YD.	APPROACH SLAB REMOVED, AS PER PLAN				294			227	4
						VANA							313				
LUMP	LUMP	LUMP	LUMP	503	11101	LUMP	LUMP	CU VD	COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN		7.00	25	LUMP	F.C.4	7.0	LUMP	4, 9, 10
	391 147		600 153	503 503	21100 31120	391 147	600 153		UNCLASSIFIED EXCAVATION SHALE EXCAVATION		366 83	25 64		564 106	<i>36</i> <i>47</i>		
	, , ,				0.72	, , ,	700										
115215 250	213972	137194 250	254790	509 509	10001	329,187 250	391,984 250	LB LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	258,134	32,119	38,934	263,340 250	48,016	80,628	250	3
250		250		309	20001	250	250	LD	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				230			250	3
									7.21, 7. 5. 1. 2. 7. 2								
1126		909		510	10000	1,126	909	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALIC GROUT		724	402		565	344		
			4						01.466.48.00.000								
250 44	465 81	256 44	475 82	511 511	50001 50101	715 125	731 126		CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	715 125			731 126				4
44	01	44	02	311	30101	123	120	LU. IU.	CLASS III CONCILE, DRIDGE DECK (FARAFET), AS PER PLAN	123			120				4
	523		692	511	50201	523	692	CU. YD.	CLASS HP CONCRETE, SUBSTRUCTURE, AS PER PLAN		283	240		428	264		4,22,25,40,41
LUMP	LUMP	LUMP	LUMP	511	52000	LUMP	LUMP		CLASS HP CONCRETE, TEST SLAB	LUMP			LUMP				
-7 <i></i> ^-	1410		17 A	<i></i>	10100	2 :00	0.070	60 110	CENTING OF CONODETE CUDENCES (FROM CONTINUE)	007	رسا وسا	000		400	700		
759 14	1410	725	1347	512 512	10100 10600	2,169 14	2,072		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) CONCRETE REPAIR BY EPOXY INJECTION	807	473 14	889	814	490	768		
24	46	21	38	512 512	33000	70	59		TYPE 2 WATERPROOFING		70			70	1		
-		- - -	~ *											- -	1		
	27500		23770	513	10201	27,500	23,770		STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	67,300			67,300				4
	286800	***************************************	393230	513	10240	286,800	393,230		STRUCTURAL STEEL MEMBERS, LEVEL 2	663,000			663,000				
2781 11	5166	3017 10	5602	513 513	<i>20000 95000</i>	7,947	8,619 10	EACH FEET	WELDED STUD SHEAR CONNECTORS STRUCTURAL STEEL MISC.: CRACK REPAIR	16,566			16,566		1		
7		6		513	95030	7	6		STRUCTURAL STEEL MISC.: CHACK REPAIR STRUCTURAL STEEL MISC.: NON-DESTRUCTIVE TESTING	7			6		1		
		-					-								1		
	11150		15650	514	00060	11,150	15,650	***************************************	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	12,265			17,215				
	11150		15650	514	00066	11,150	15,650	SQ. FT.	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	12,265			17,215				
54	100	34	63	5 <i>16</i>	13600	154	97	SO FT	1" PREFORMED EXPANSION JOINT FILLER	154			97				
79	148	79	148	516	13900	227	227		2" PREFORMED EXPANSION JOINT FILLER	154	227		37	227			
15	27	43	81	516	14000	42	124		PREFORMED EXPANSION JOINT FILLER, MISC. (3" THICK)		42			124			
108	201	79	148	516	14021	309	227		SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN		309			227			3
8	16	9	17	516	44201	24	26	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (15"x15"x3.82")		24			26			28
8	16	9	17	516	44301	24	26	EACH	AND LOAD PLATE (16"x16"x1.50") (NEOPRENE), AS PER PLAN ELASTOMERIC BEARING WITH INTERNAL LAMINATES (17"x17"x5.05")			24			26		28
<i>-</i>	10	J	11	510	77301			LAUT	AND LOAD PLATE (25"x18"x2") (NEOPRENE), AS PER PLAN			47			20		20
LUMP	LUMP	LUMP	LUMP	516	47001	LUMP	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER		A7-		LUMP			LUMP	3
		AA.mmm.AAA.m							PLAN		· · · · · · · · · · · · · · · · · · ·						18, 19, 22, 23
~~	,70	^7	170	<i>C</i> • • • • • • • • • • • • • • • • • • •	21221	074	070	011 25	DODOUG BACKETT WITH STITED SACON		074			0.70			
96	178	97	179	518	21201	274	276	LU. YD.	POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN		274			276	-		
568	1055	660	1227	519	11101	1,623	1,887	SQ. FT.	PATCHING CONCRETE STRUCTURE, AS PER PLAN		1,269	354		1,725	162		.3
- -				· -		,,,,	,				,	"		,	† - -		
	314		227	524	94404	314	227		DRILLED SHAFTS, 18" DIAMETER, INTO BEDROCK		314			227			
	142		<i>369</i>	524	94704	142	369		DRILLED SHAFTS, 36" DIAMETER, INTO BEDROCK		142			369	_ NAME 18-0-0		
	92		137	524	94804	92	137	FEET	DRILLED SHAFTS, 42" DIAMETER, INTO BEDROCK			92			137		
215	400	217	402	526	30001	615	619	SQ. YD	REINFORCED CONCRETE APPROACH				615			619	4,50
		_ ′ ′							SLABS (T=17"), AS PER PLAN		.114						,, 50
167	309	368	683	601	32005	476	1,051	CU. YD.	ROCK CHANNEL PROTECTION, TYPE A WITH				476			1,057	4
									FABRIC FILTER, AS PER PLAN								
			:														
							<u> </u>								1		