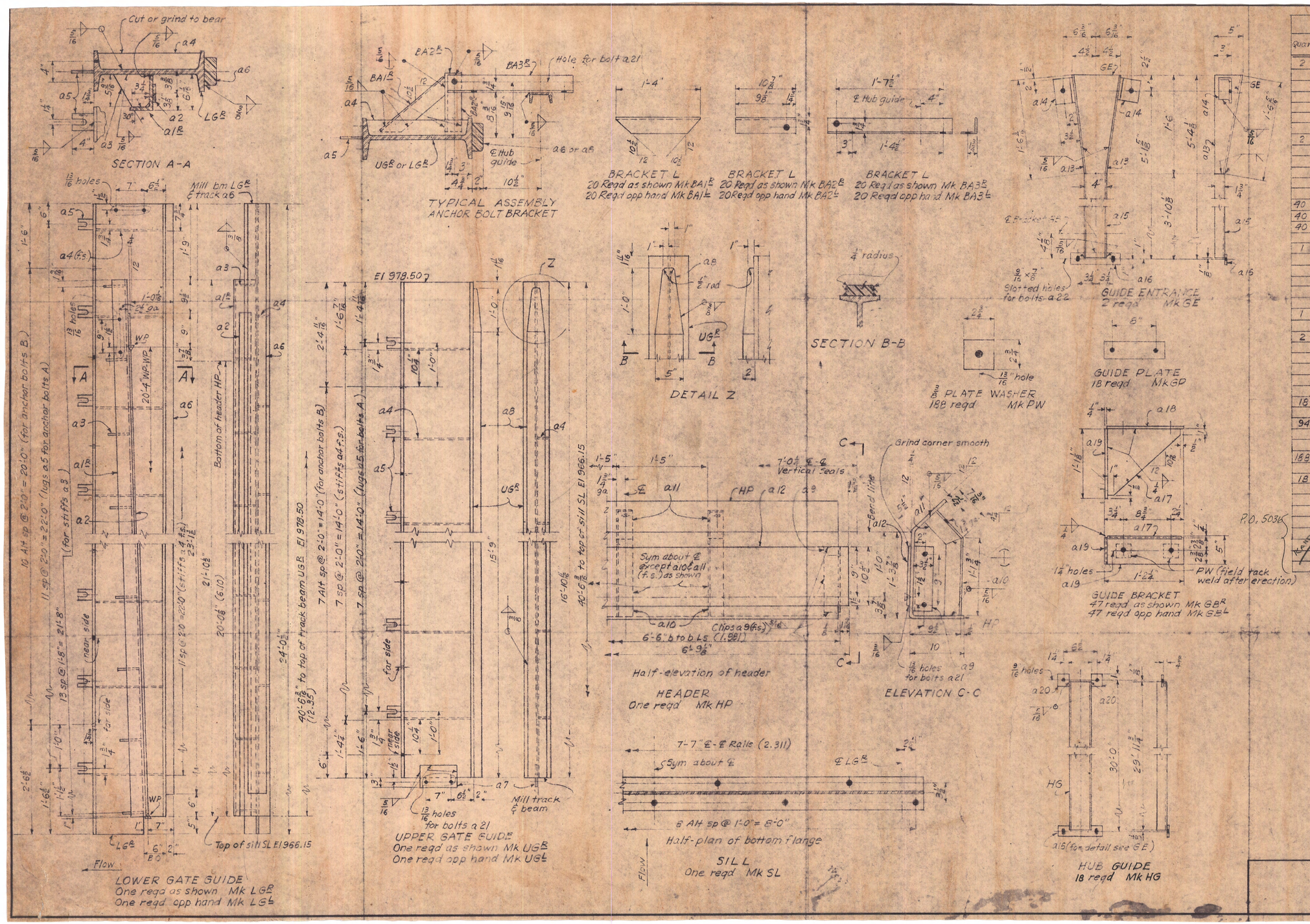

BILL OF MATERIAL

Quan	Shipping Mark	No. Pcs	Pieces Mark	Description	Matl	Unit Length	Wt per Foot	Total Lgth	Total Weight	Remarks
2	LGR			20 I	MS	24'-0½"	95	48.08	4568	
		2	a1R	L 6×4×½	do	21'-10¾"	16.2	43.76	709	
		2	a2	bar 3×⅜	SS	21'-11⅞"	3.83	42.16	161	Stainless clad
		28	a3	stiff 5⅝×⅜	MS	0'-6⅞"	7.09	15.17	108	sketch
		24	a4	stiff 3×⅜	do	1'-7"	3.83	38.0	145	
		24	a5	lug 3×⅜	do	0'-4"	3.83	8.0	31	
		2	a6	bar 2×5	FS	23'-1⅝"	34.0	46.25	1572	Heat treated
2	UGR			20 I	MS	16'-10⅛"	95	33.78	3209	
		2	a7	bar 6×½	do	0'-10"	10.2	1.66	17	
		16	a4					25.33	97	
		16	a5					5.33	20	
		2	a6	bar 2+×5+	FS	16'-9"	34.0	33.5	1140	Heat treated
40	BA1R			L 3×3×¼	MS	1'-4"	6.1	53.33	325	
40	BA2R			do	do	0'-10⅞"		36.25	221	
40	BA3R			do	do	1'-7⅞"		65.0	397	
1	HP			PL 34×½	MS	6'-5¾"	57.8	6.48	375	bend
		2	a9	Clip 2½×3×½	MS	1'-0"	6.6	2.00	13	
		3	a10	L 3×3×⅜	do	1'-1¾"	6.1	3.44	21	
		3	a11	do	do	0'-7⅞"		1.80	11	
		1	a12	PL 10½×¾	SS	6'-8"	18.4	6.76	91	Stainless clad
1	SL			6×6 M	MS	8'-3"	25.0	8.25	206	
2	GE			PL 9×⅝	MS	1'-6⅝"	9.56	3.05	29	
		4	a13	PL 5×⅝	do	1'-6¾"	5.31	6.08	32	
		4	a14	L 3½×2½×½	do	0'-4"	9.4	1.33	12	
		2	a15	4 ⊔ 7.25	do	3'-10"	7.25	7.67	56	
		2	a16	PL 2×⅜	do	0'-9"	2.55	1.50	4	
18	GP			PL 3×⅜	do	0'-11"	3.83	16.5	63	
94	GBR/L	94	a17	PL 12⅝×⅜	MS		16.06	62.65	1006	Sketch
		94	a18	Bar 4½×⅜	do	1'-2"	6.06	109.67	665	
		94	a19	do	do	1'-1⅞"	6.06	102.82	623	
188	PW			Bar 2¾×⅜	do	0'-2¾"	3.51	43.09	151	
18	HG			4 ⊔ 7.25	do	29'-11⅝"	7.25	339.63	2912	
		36	a20	Lug 2×⅜	do	0'-2¾"	2.55	6.75	17	
		18	a16				2.55	13.50	34	
				FIELD BOLTS						
		46	a21	¾"×0'-2" sq hd					25	Hex nut-1 washer
		36	a22	¾"×0'-2¾" sq hd					9	do do
									20,075	

P.O. 5036

KANDAHAR

NOTES:
All marks shall have the prefix "KAJ-15-F-16".
Dimensions in parentheses ( ) and elevations are in meters.
Holes 1" unless noted.
Bolts ¾" unless noted.

REFERENCE DRAWINGS:
Irrigation Tunnel - Intake Tower - Concrete Outline Sheet 1 ..... 13-F-27
Irrigation Tunnel - Intake Tower - Gate Guides Assembly & Anchor Bolts 15-F-15
Irrigation Tunnel - Intake Tower - Wheel Gate Assembly 15-F-11
Scale: 1" & 1½" = 1 Foot

MORRISON-KNUDSEN AFGHANISTAN, INC.

KAJAKAI DAM
IRRIGATION TUNNEL WHEEL GATE GUIDES DETAILS

INTERNATIONAL ENGINEERING CO., INC.

DESIGN R.K.C. | CHK'D D.W.C. | SUBMITTED
DRAWN R.P.M. | INSP. | RECOMMENDED
APPROVED

15-F-16

DENVER, COLO.
DATE JAN. 12, 1951