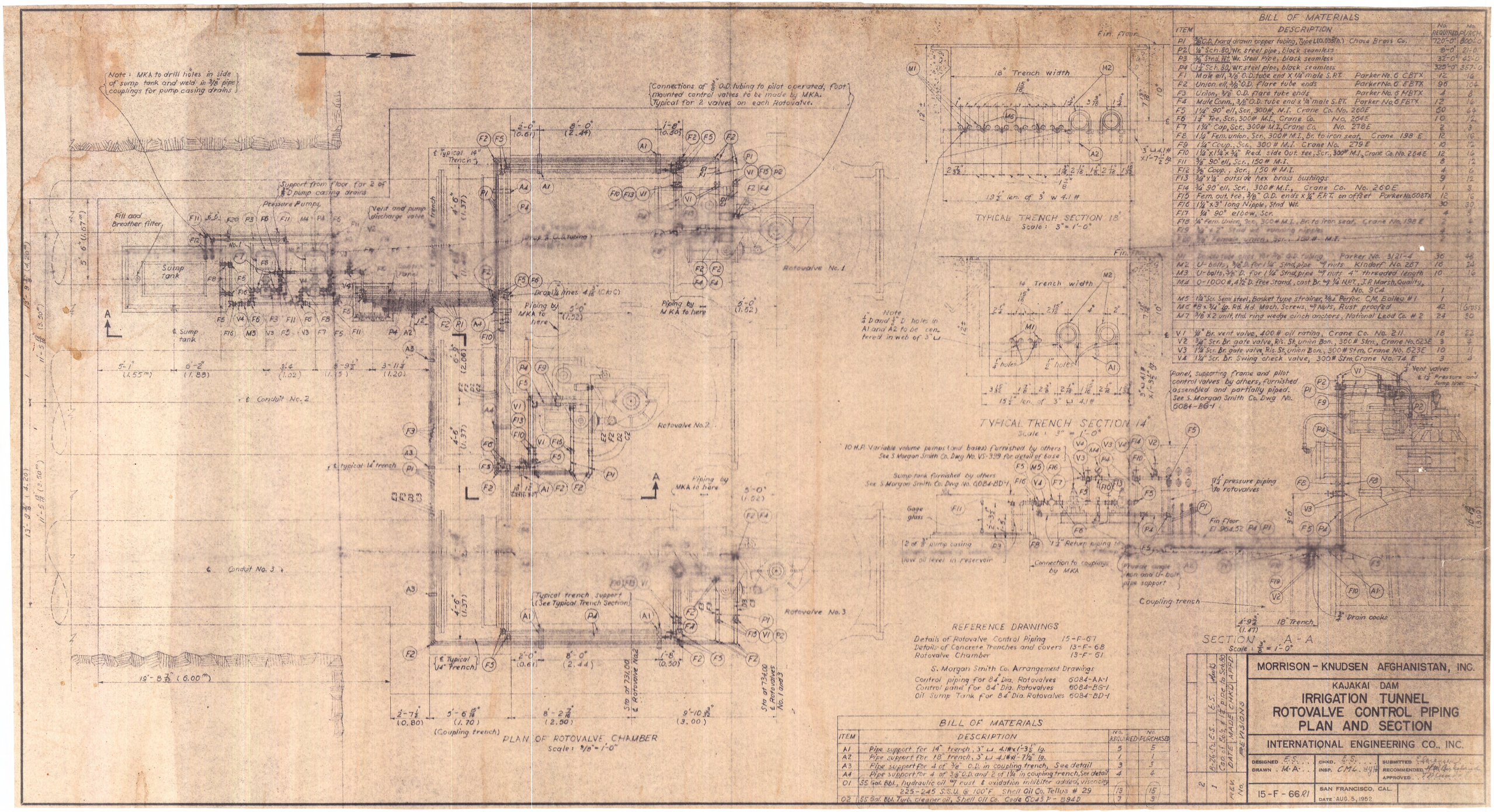

REFERENCE DRAWINGS

Details of Rotovalve Control Piping 15-F-67
Details of Concrete Trenches and covers 13-F-68
Rotovalve Chamber 13-F-61

S. Morgan Smith Co. Arrangement Drawings

Control piping for 84" Dia. Rotovalves 6084-AA-1
Control panel for 84" Dia. Rotovalves 6084-BG-1
Oil Sump Tank for 84" Dia. Rotovalves 6084-BD-1

BILL OF MATERIALS

ITEM	DESCRIPTION		No. REQUIRED	No. PURCHASED
A1	Pipe support for 14" trench, 3" ⊔ 4.1# x 1'-3 1/2" lg.		5	5
A2	Pipe support for 18" trench, 3" ⊔ 4.1# x 1'-7 1/2" lg.		1	1
A3	Pipe support for 4 of 3/8" O.D. in coupling trench, See detail		3	3
A4	Pipe support for 4 of 3/8" O.D. and 2 of 1 1/4" in coupling trench, See detail		4	4
O1	55 Gal. Bbl., hydraulic oil w/ rust & oxidation inhibitor added, viscosity 225-245 S.S.U. @ 100°F Shell Oil Co. Tellus # 29		13	15
O2	55 Gal. Bbl. Turb. cleaner oil, Shell Oil Co. Code 6045 P-894D		7	9

BILL OF MATERIALS

ITEM	DESCRIPTION		No. REQUIRED	No. PURCHASED
P1	3/8" O.D. hard drawn copper tubing, Type L (0.035" th.)	Chase Brass Co.	720'-0"	800'-0
P2	1/4" Sch. 80, Wr. steel pipe, black seamless		8'-0"	21'-0
P3	3/4" Stnd. Wt. Wr. Steel Pipe, black seamless		32'-0"	42'-0
P4	1 1/4" Sch. 80, Wr. steel pipe, black seamless		325'-0"	357'-0
F1	Male ell, 3/8" O.D. tube end x 1/4" male S.P.T.	Parker No. 6 CBTX	12	16
F2	Union ell, 3/8" O.D. flare tube ends	Parker No. 6 EBTX	96	104
F3	Union, 3/8" O.D. flare tube ends	Parker No. 6 HBTX	4	8
F4	Male Conn., 3/8" O.D. tube end x 1/4" male S.P.T.	Parker No. 6 FBTX	12	16
F5	1 1/4" 90° ell, Scr., 300#, M.I.	Crane Co. No. 260E	60	64
F6	1 1/4" Tee, Scr., 300# M.I.	Crane Co. No. 264E	10	12
F7	1 1/4" Cap, Scr., 300# M.I.	Crane Co. No. 278E	2	3
F8	1 1/4" Fem. union, Scr., 300# M.I., Br. to iron seat	Crane 198 E	12	16
F9	1 1/4" Coup., Scr., 300# M.I.	Crane No. 279 E	10	12
F10	1 1/4" x 1 1/4" x 3/4" Red. side Out. tee, Scr., 300# M.I.	Crane Co. No. 264E	12	16
F11	3/8" 90° ell, Scr., 150# M.I.		8	12
F12	3/8" Coup., Scr., 150# M.I.		4	6
F13	3/4" x 1/4" outside hex brass bushings		9	12
F14	3/4" 90° ell, Scr., 300# M.I.	Crane Co. No. 260E	1	3
F15	Fem. out. tee, 3/8" O.D. ends x 1/4" F.P.T. on offset	Parker No. 6 OBTX	12	16
F16	1 1/4" x 3" long Nipple, Stnd Wt.		30	30
F17	1/4" 90° elbow, Scr.		4	8
F18	1/4" Fem. Union, Scr., 300# M.I., Br. to iron seat	Crane No. 198 E	2	4
F19	1/4" x 2" Stnd wt. running nipple		4	4
F20	1/4" Fem. union, Scr., 150# M.I.			
M1	Compression nuts for 3/8" O.D. tubing	Parker No. 3121-4	36	48
M2	U-bolts, 3/8" D. for 1 1/4" Stnd. pipe w/ nuts	Kindorf No. 287	16	24
M3	U-bolts, 3/8" D. for 1 1/4" Stnd. pipe w/ nuts 4" threaded length		10	16
M4	0-1000#, 4 1/2" D. free Stand., cast Br. w/ 1/4" N.P.T., J.P. Marsh Quality, No. 904		1	1
M5	1 1/4" Scr. Semi steel, Basket type strainer, 3/64" Perfor.	C.M. Bailey #1	1	1
M6	#8 x 3/4" lg. Rd. Hd. Mach. Screws, w/ Nuts, Rust proofed		42	1 Gross
M7	3/8" x 2 unit, thd. ring wedge cinch anchors,	National Lead Co. # 2	24	30
V1	1/4" Br. vent valve, 400# oil rating,	Crane Co. No. 211	18	22
V2	3/4" Scr. Br. gate valve, Rs. St. union Bon., 300# Stm.,	Crane No. 623E	3	4
V3	1 1/4" Scr. Br. gate valve, Rs. St. union Bon., 300# Stm.,	Crane No. 623E	10	11
V4	1 1/4" Scr. Br. Swing check valve, 300# Stm.	Crane No. 74 E	3	4

No.	REVISIONS	DATE	MADE	CHKD.	APPD.
2		8-26-52	E.S.	E.S.	
1	Cpl. 1 56.6 & 1 1/2" pipe to Sta 8.8				

MORRISON - KNUDSEN AFGHANISTAN, INC.

KAJAKAI DAM

IRRIGATION TUNNEL ROTOVALVE CONTROL PIPING PLAN AND SECTION

INTERNATIONAL ENGINEERING CO., INC.

DESIGNED E.S. CHKD. E.S. SUBMITTED
DRAWN M.A. INSP. C.M.L. RECOMMENDED
APPROVED

15-F-66 R1

SAN FRANCISCO, CAL.
DATE AUG. 5, 1952