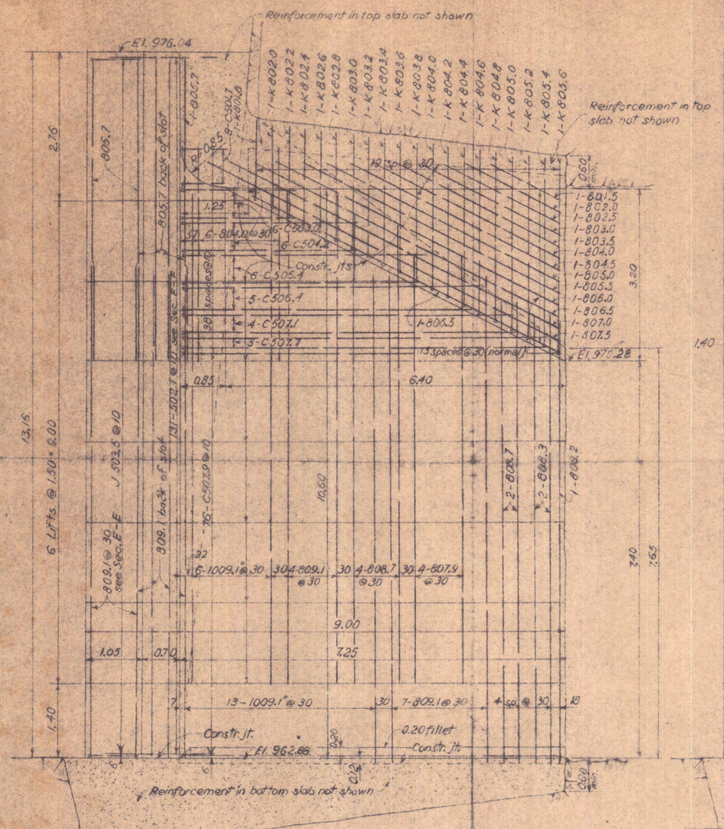
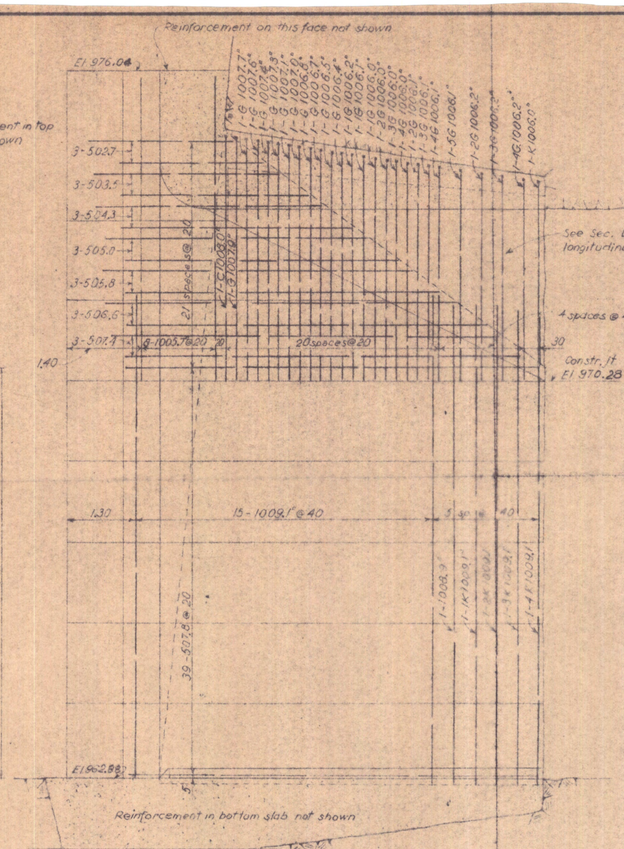
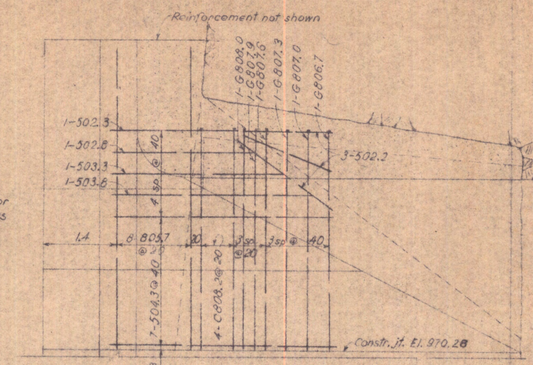


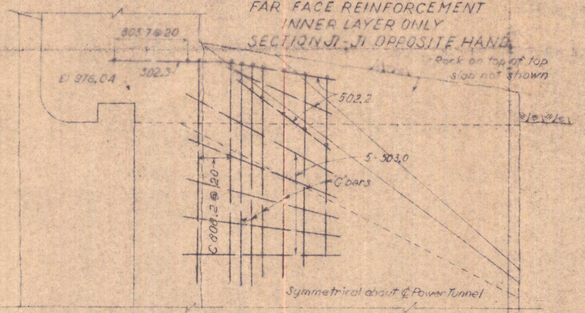
SECTION J-J
NEAR FACE REINFORCEMENT
SECTION J1-J1 OPPOSITE HAND



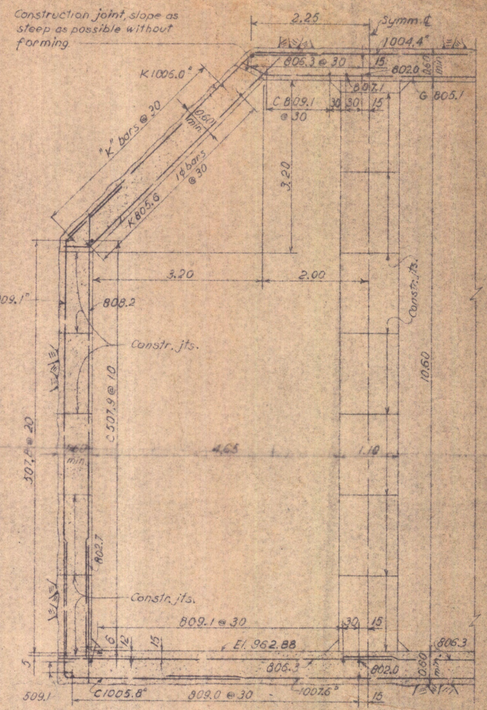
SECTION J-J
FAR FACE REINFORCEMENT
OUTER LAYER ONLY
SECTION J1-J1 OPPOSITE HAND



SECTION J-J
FAR FACE REINFORCEMENT
INNER LAYER ONLY
SECTION J1-J1 OPPOSITE HAND



SECTION L-L
TOP FACE REINFORCEMENT
LOWER LAYER ONLY

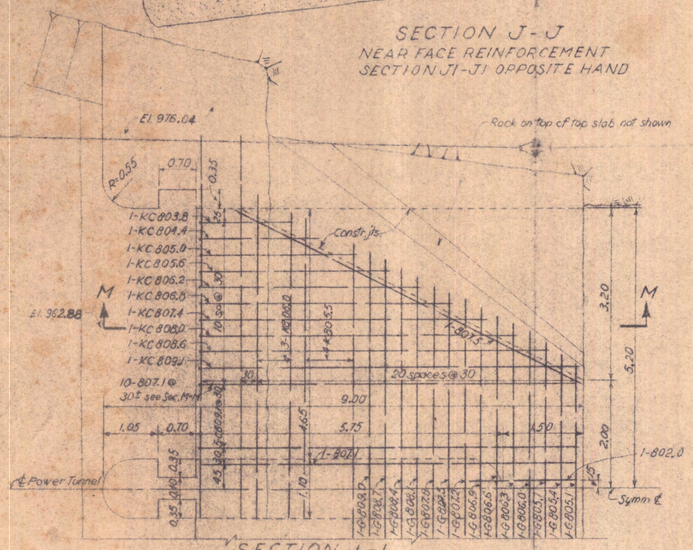


HALF SECTION K-K

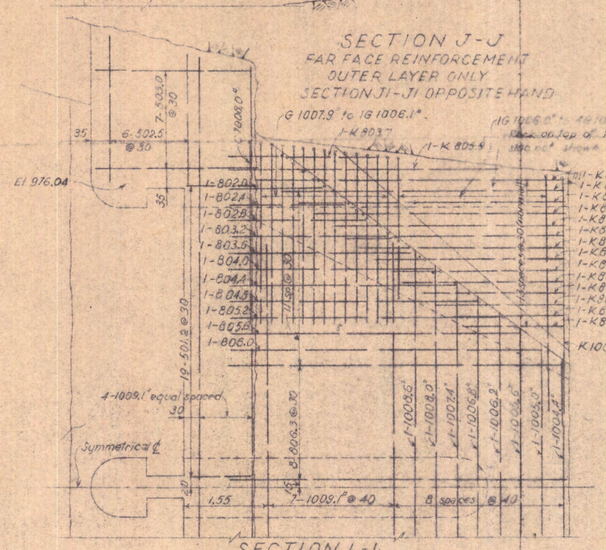
NOTES

Elevations and dimensions are in meters, reinforcement spacings are in centimeters.
Intermediate construction joints may be added if necessary.
Concrete design based on f'_c = 3000 psi in 28 days; and maximum reservoir water surface El. 981.2
Maximum aggregate size shall be 1½" in portal structure & ¾" in stoplog.
Dimensions to reinforcement are to ℄ bars.
Chamfer all exposed edges 2 centimeters
Protective cover shall be 10 centimeters, unless otherwise noted.
Lap splices 37 bar diameters minimum.
——— Indicates bar bent away from viewer
——— Indicates bar bent toward viewer
Abbreviations:
U.L. = Upper layer, L.L. = Lower layer,
I.L. = Inner layer, O.L. = Outer layer
e.f. = each face
Bend or spread bars as necessary to clear embedded pipes and blockouts.

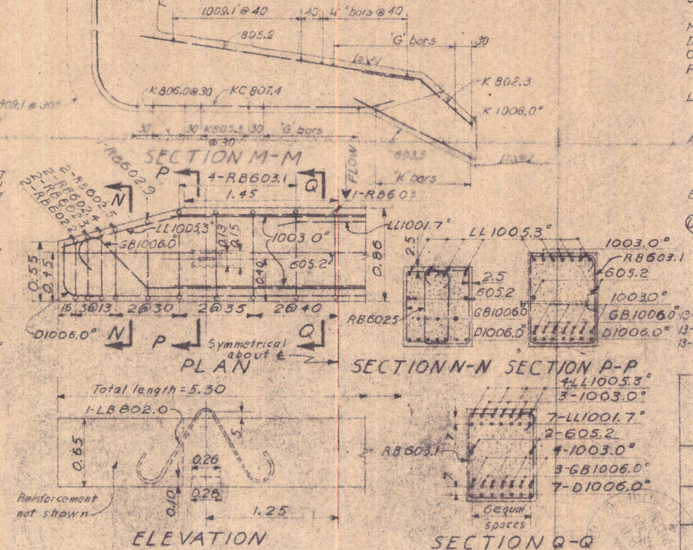
Upstream portal at Sta. 0+189.670 is from field dwg. 27-52.R2 received Nov. 13, 1951. Invert elevation is calculated accordingly.



SECTION L-L
BOTTOM FACE REINFORCEMENT



SECTION L-L
TOP FACE REINFORCEMENT
UPPER LAYER ONLY



CONCRETE STOPLOG
Scale 1:25 40 required

COMPANION DWG. 13-F-55

REFERENCE DRAWINGS

13-F-1	Diversion Tunnels - Plan & Profiles
13-F-54	Power Tunnel, Upstream Portal - Excavation
13-F-56A, B, C, D & E	Reinforcement bar schedules

Scale 1:50 except as noted

No.	Date	Revisions	Chk'd	Elev. & Sta.	Elev. & Sta.	Stoplogs	Remarks
4	2-4-53	WRH	MVH	MVH	MVH		
3	8-26	MVH	MVH	MVH	MVH		
2	9-26-51			N.C.L.	I.V.H.		
1							

MORRISON-KNUDSEN AFGHANISTAN, INC.

KAJAKAI DAM
POWER TUNNEL
UPSTREAM PORTAL
OUTLINE & REINFORCEMENT - SHEET 2

INTERNATIONAL ENGINEERING CO., INC.

DESIGN. M.V.J.
DRAWN. M.V.J.
CHK'D. H. G. Hess
INSP'D. W. A. Waldorf
SUBMITTED. W. A. Waldorf
RECOMMENDED. A. W. Kirkeland
APPROVED. F. Neuendorfer

13-F-56 R3

DENVER, COLO.
DATE DEC. 12, 1950