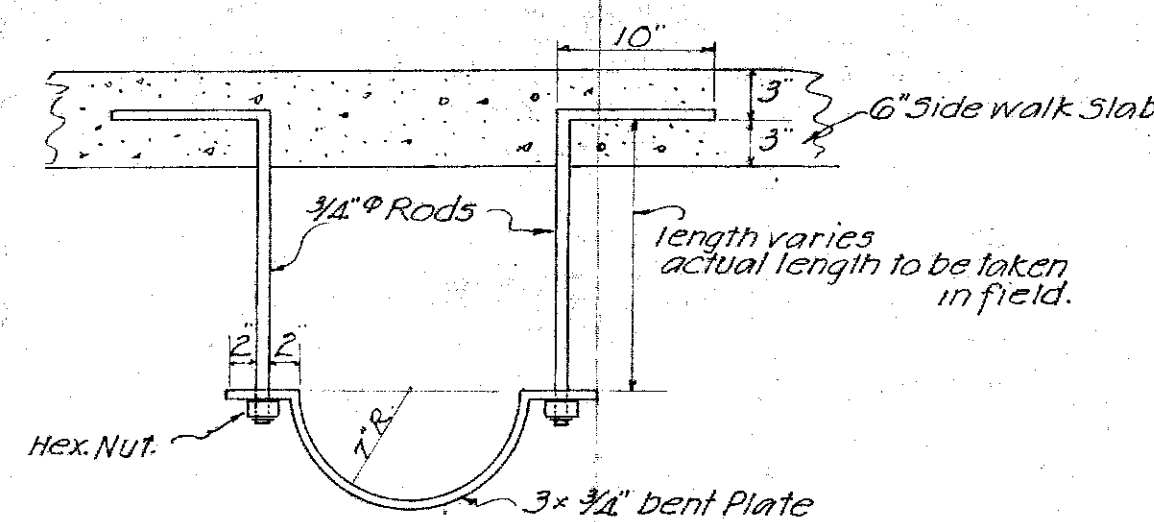
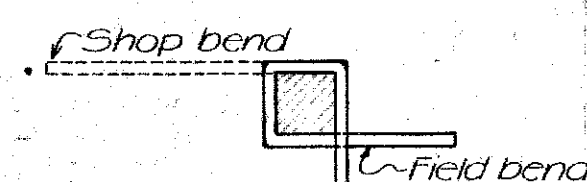


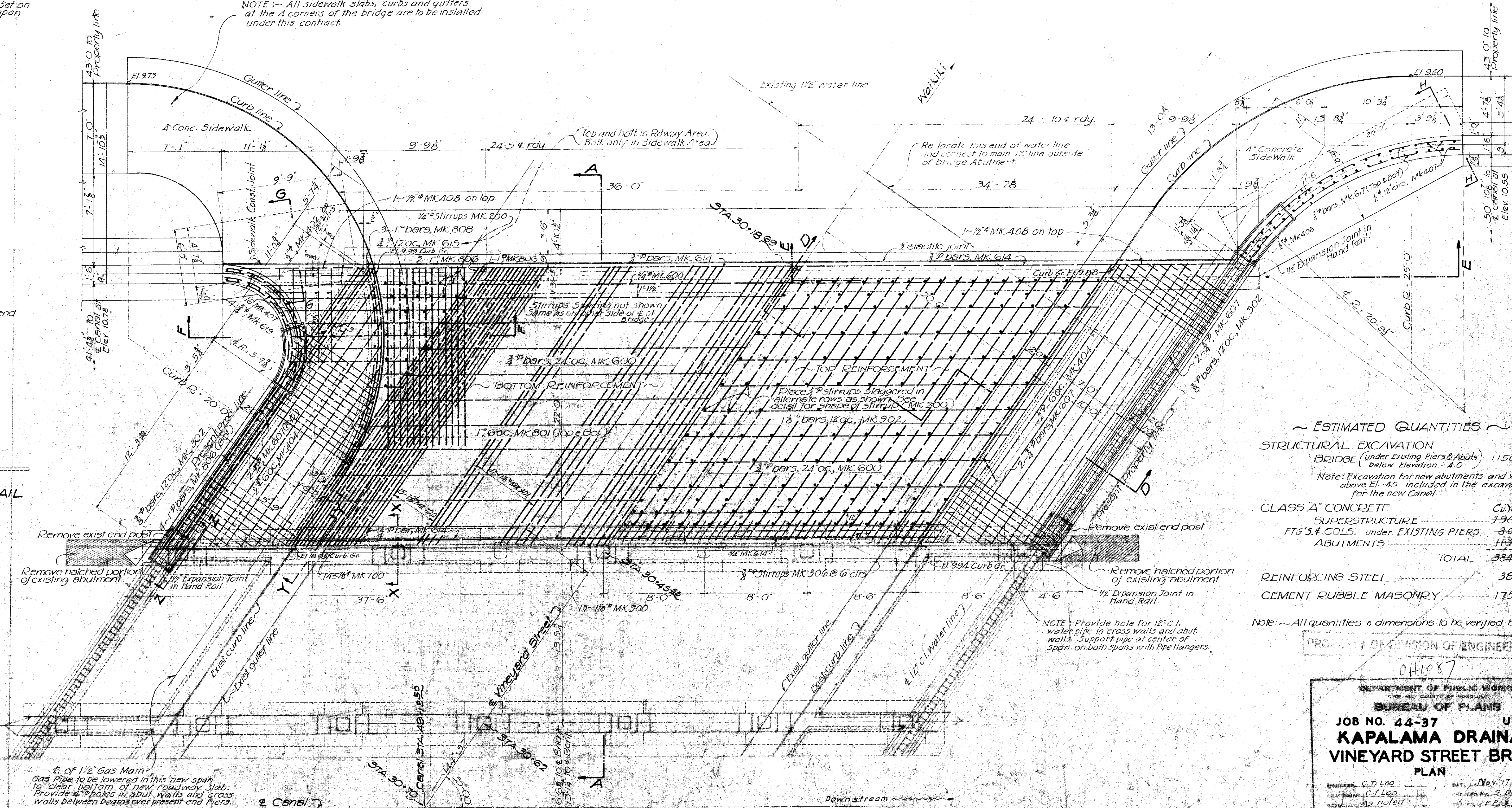


PIPE HANGERS
Scale 1"=1'-0"
2-Sets required, 1 Set on each span at $\frac{1}{2}$ of span.

NOTE: All sidewalk slabs, curbs and gutters at the 4 corners of the bridge are to be installed under this contract.



STIRRUP DETAIL
Scale: 3"=1'-0"



PLAN OF ADDITIONAL SPAN AT WAIKIKI END OF BRIDGE
NEW EWA SPAN- SIMILAR
Scale 1"=4'

~ ESTIMATED QUANTITIES ~

STRUCTURAL EXCAVATION		
BRIDGE (Under Existing Piers & Abut.)	1150	Cu Yds.
Note: Excavation for new abutments and wing walls above El. 4.0 included in the excavation for the new Canal.		
CLASS 'A' CONCRETE		
SUPERSTRUCTURE	190.0	Cu Yds.
FTG'S & COLS. under EXISTING PIERS	80.5	73.0
ABUTMENTS	113.5	213.0
TOTAL	384.0	1176.0
REINFORCING STEEL		
	38.71	Tons
CEMENT RUBBLE MASONRY		
	175	Cu Yds.

Note: All quantities & dimensions to be verified by the contractor.

PROFESSIONAL ENGINEERING

041087

DEPARTMENT OF PUBLIC WORKS
BUREAU OF PLANS

JOB NO. 44-37 UNIT-1
KAPALAMA DRAINAGE
VINEYARD STREET BRIDGE
PLAN

DESIGNED: C.T. Leo
CHECKED: C.T. Leo
APPROVED: As noted

DATE: Nov. 17, 1937
BY: R.F. Reisch
FOR: R.D. Massey