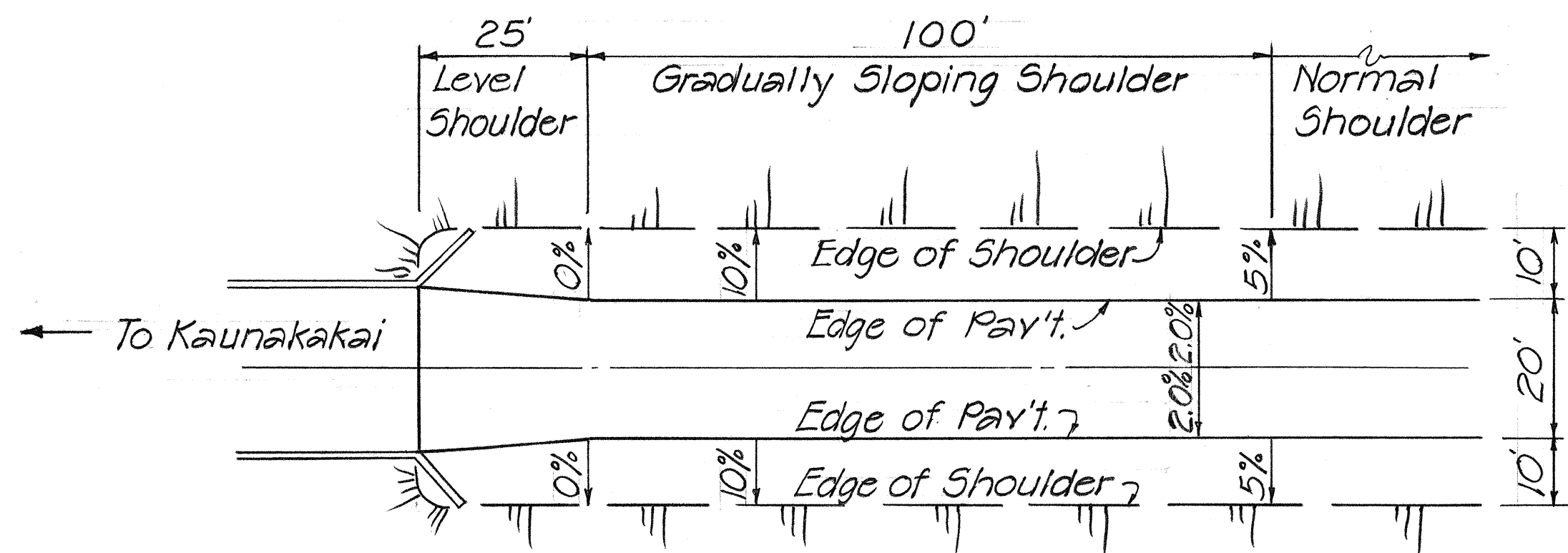
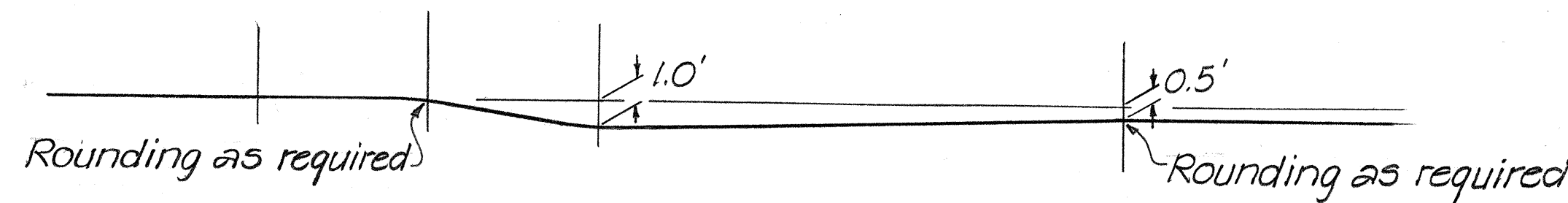


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460 (1)	1978	11	23



PLAN
Scale: 1" = 20'

NOTE:
Stabilize Shoulder
as required.

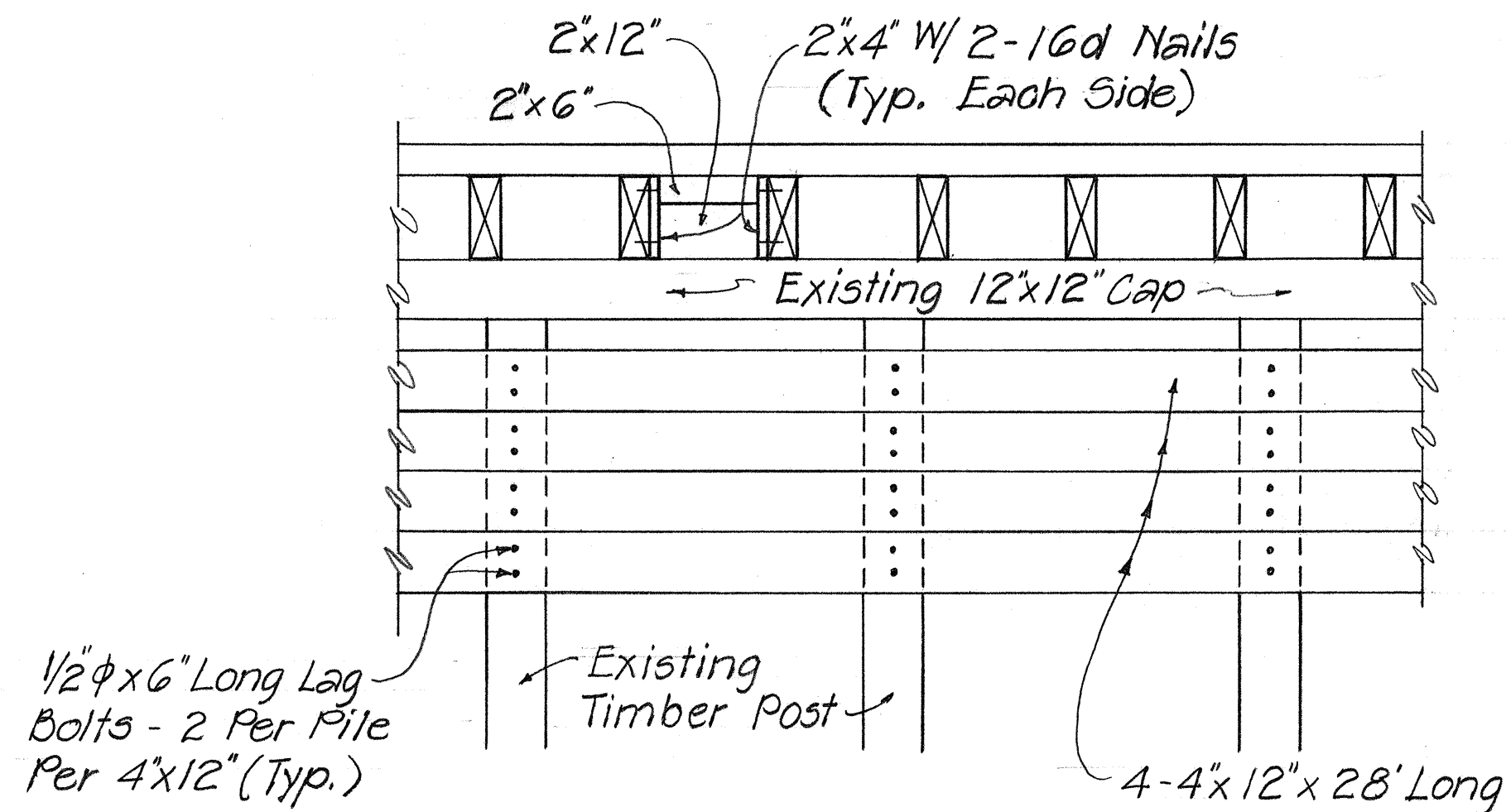


PROFILE ALONG EDGE OF SHOULDER
Scale: Hor.: 1" = 20'
Ver.: 1" = 5'

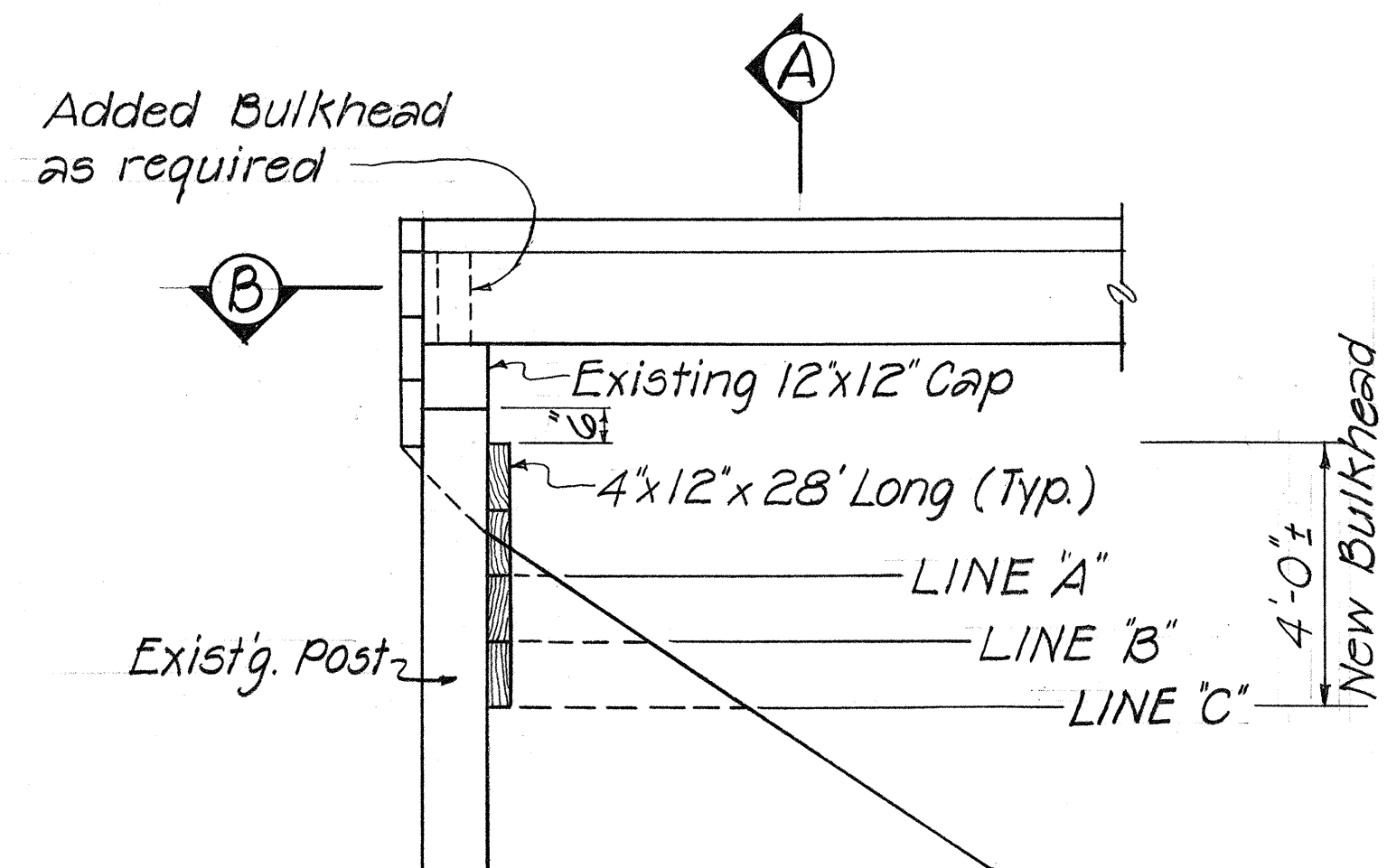
REPAIR OF MANAWAINUI BRIDGE & APPROACH SHALL CONSIST OF THE FOLLOWING:

- The west abutment of Manawainui Bridge shall be repaired by excavating, adding new bulkhead, and backfilling to original ground lines as specified in Section 502-Timber Structure, the Partial Elevation, Section "A", Section "B", and Construction Procedure-New Bulkhead as shown on this sheet.
- The west approach to Manawainui Bridge shall be repaired as follows:
 - The west approach pavement section shall be built-up to a 2.0% crown over the resurfacing thickness for a distance of approximately 125' from Manawainui Bridge.
 - The left and right shoulders along the west approach to Manawainui Bridge shall be excavated, graded, filled, watered and rolled to meet the requirements shown in the Plan and Profile of the shoulder area shown on this sheet.
- The above work will be paid on a Force Account basis under Item No. 502.3100 Manawainui Bridge and Approach Repair Work.

REPAIR OF MANAWAINUI BRIDGE & APPROACH



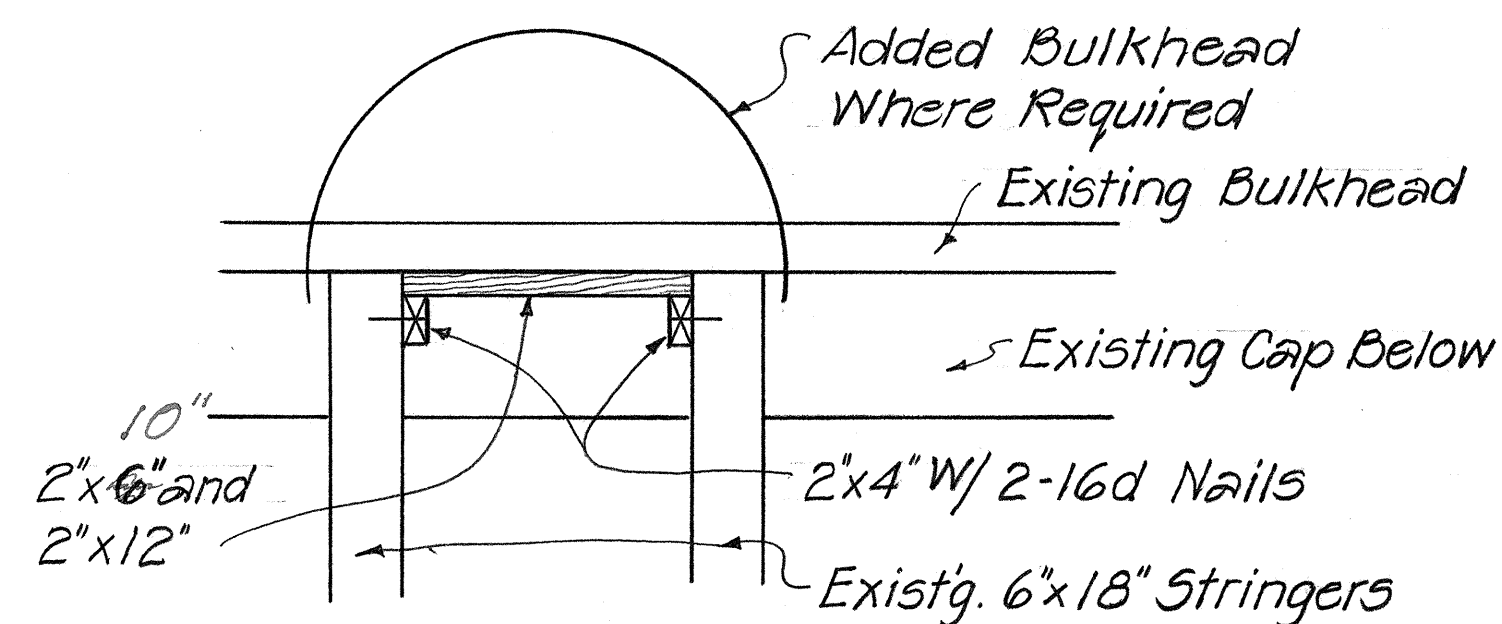
SECTION "A"
Scale: 3/8" = 1'-0"



PARTIAL ELEVATION
Scale: 3/8" = 1'-0"

CONSTRUCTION PROCEDURE - NEW BULKHEAD

- Secure top 4"x12" into place with lag bolts
- Excavate to neat lines to line "A"
- Secure second 4"x12" into place
- Excavate to line "B"
- Secure third 4"x12" into place
- Excavate to line "C"
- Secure bottom 4"x12" into place
- Backfill to original ground lines.



SECTION "B"
Scale: 3/4" = 1'-0"

NOTE:
All timber shall be Douglas Fir construction grade treated with Creosote, salt Wolmanized Treatment or water repellent Pentachlorophenol Treatment.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
REPAIR OF MANAWAINUI BR.
RESURFACING MAUNALOA HWY.
KAUNAKAKAI WHARF TOWARDS
MAUNALOA VILLAGE
PROJ. NO RS-0460 (1)
SCALE AS NOTED
MAR, 1978

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	