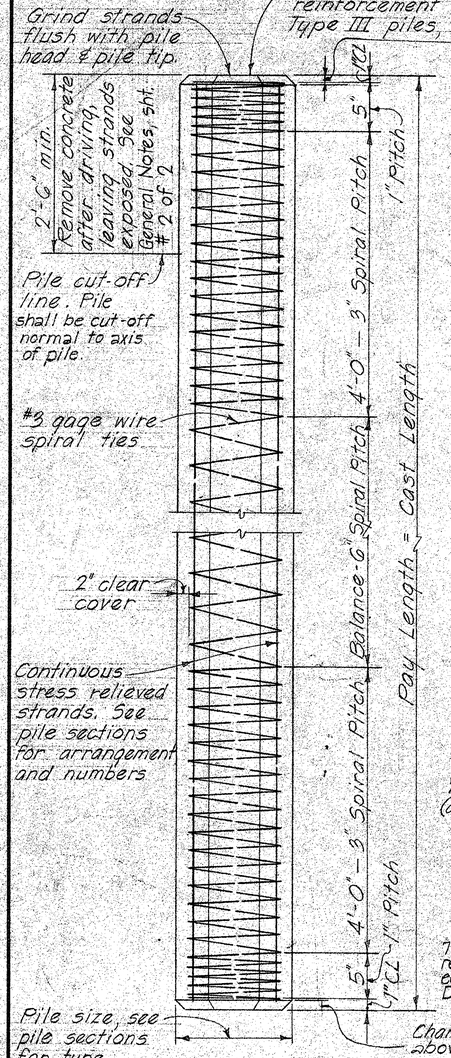
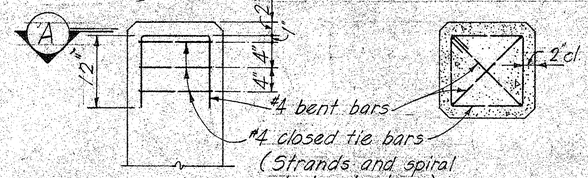
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FH-1(10)	1969	7	97

Revision: Feb. 67, Mar. 67
Jan. 68, June 68
Aug. 68, Oct. 68
Apr. 69, May 69

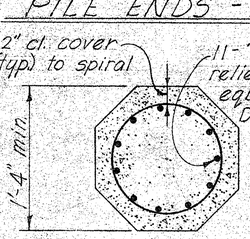


TYPICAL PILE DETAIL



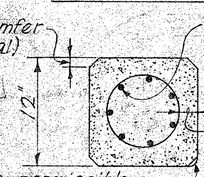
PART ELEVATION SECTION (A)

TYPICAL ADDED REINFORCEMENT
PILE ENDS - TYPE II & III ONLY

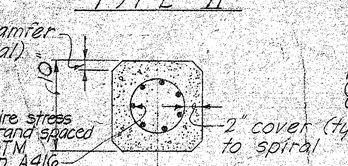


Note: All types of pile spiral reinforcement shall be cold drawn steel wire ASTM A-82

TYPE I



TYPE II



TYPE III

TYPICAL SECTIONS THRU PILES

Max. Length "L"*	Max. Length "L"*	Length "L"*
Type I "L" = 53'-0"	Type I "L" = 75'-0"	Type I "L" over 75'-0"
12" Type II "L" = 50'-0"	12" Type II "L" = 72'-0"	12" Type II "L" over 72'-0"
10" Type III "L" = 46'-0"	10" Type III "L" = 66'-0"	10" Type III "L" over 66'-0"
0.30L 0.70 L	0.21L 0.58L 0.21L	0.15L 0.35 L 0.35 L 0.15L

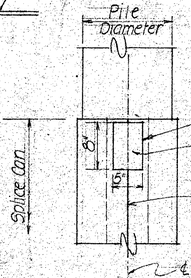
* The length "L" is the distance end to end of pile.

1 POINT PICK-UP 2 POINT PICK-UP 3 POINT PICK-UP

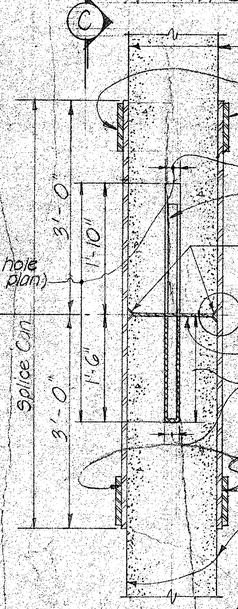
NOTE: Unless special lifting devices are attached for pick-up points, pick-up points shall be plainly marked on all piles after removal of the forms and all lifting shall be done at these points. The use of special embedded or attached lifting devices, the employment of other pick-up points or any other method of pick-up shall be subject to approval by the Engineer.

2'-6" min. unless otherwise directed by the Engineer. Remove concrete after driving, leaving reinf. exposed.

NOTE:
Concrete in pile build-ups without driving shall be Class A Concrete. Concrete in pile build-ups with driving shall have a minimum compressive cylinder strength f'c of 5000 p.s.i. at 28 days. Build-ups may be driven if the specimen of concrete from which the piles were poured develops a strength of at least 3500 p.s.i. but not earlier than 7 days.



PART ELEV (C)
(TYP. CAN SPLICE PL)

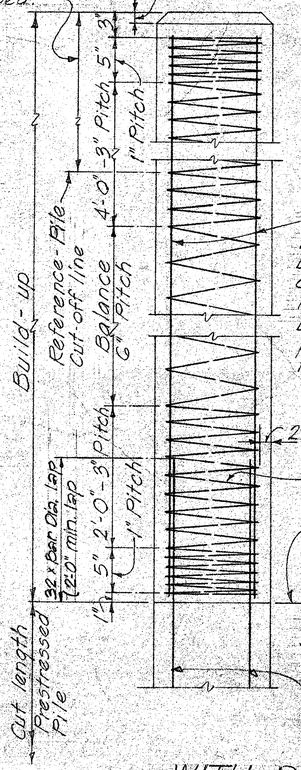


SECTION (B)

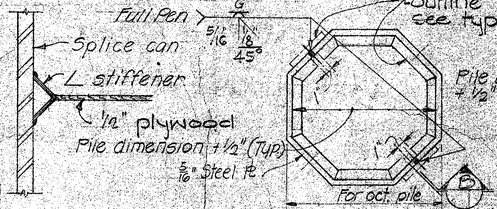
TYPICAL PILE SPLICE DETAILS
(FOR PRESTRESSED CONCRETE PILES WHEN CAST IN TWO OR MORE SECTIONS)

NOTE: All welding shall conform to the latest Specifications for Welded Highway & Railway Bridge of The American Welding Society.

NOTE !!
1. Splice detail shown above shall not be used except for pile length in excess of 100'-0" long. (See Specifications)
2. Structural steel for splice can shall be ASTM A-36.



WITH DRIVING
TYPICAL PILE BUILD-UP DETAIL



DETAIL "X"

TYPE I

TYPE II & III

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

PRESTRESSED CONCRETE PILES

SHEET No. 1 OF 1 SHEETS

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

PRINTED ON NO. 1000W CLEARPRINT