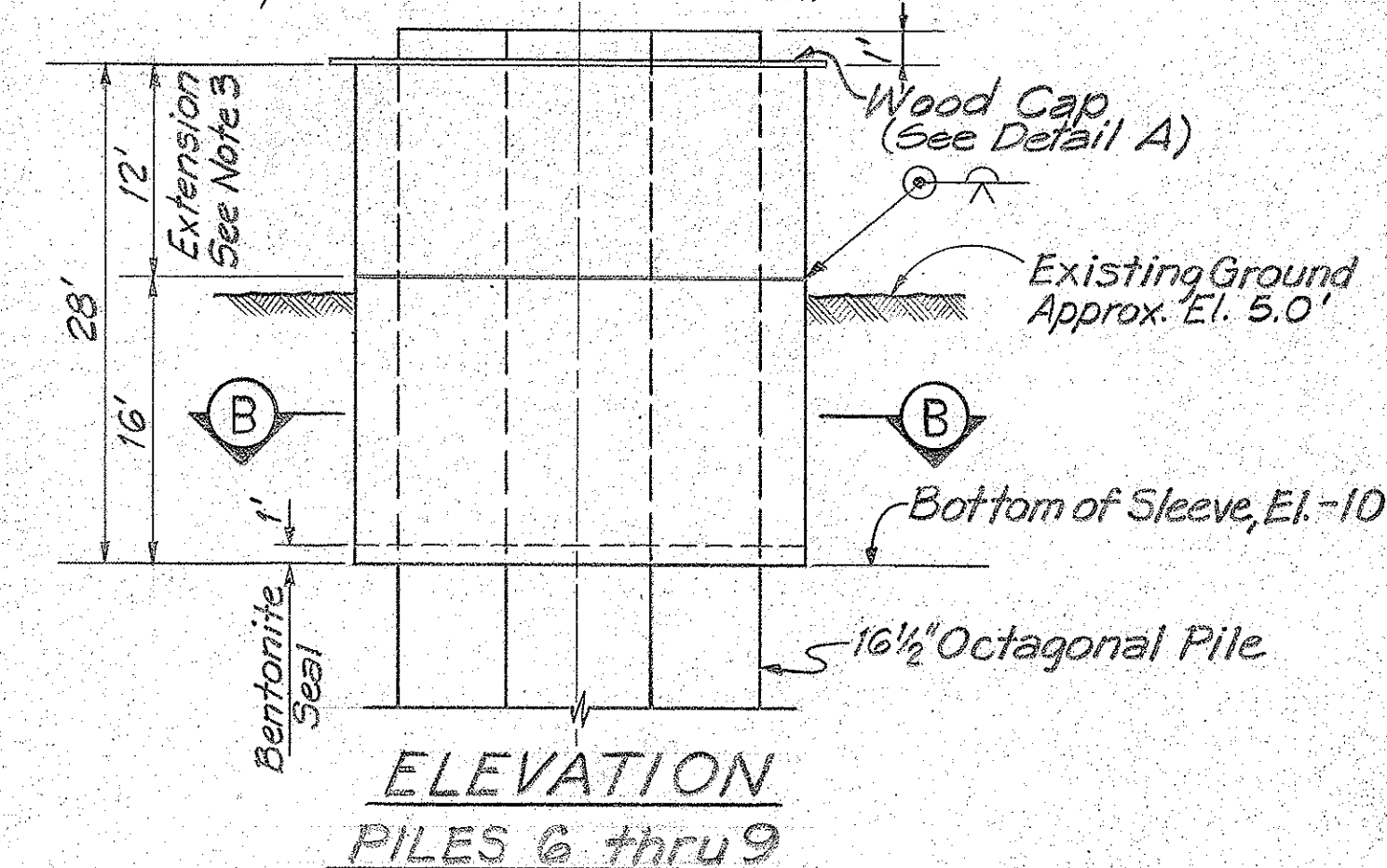


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(85)	1970	12	35

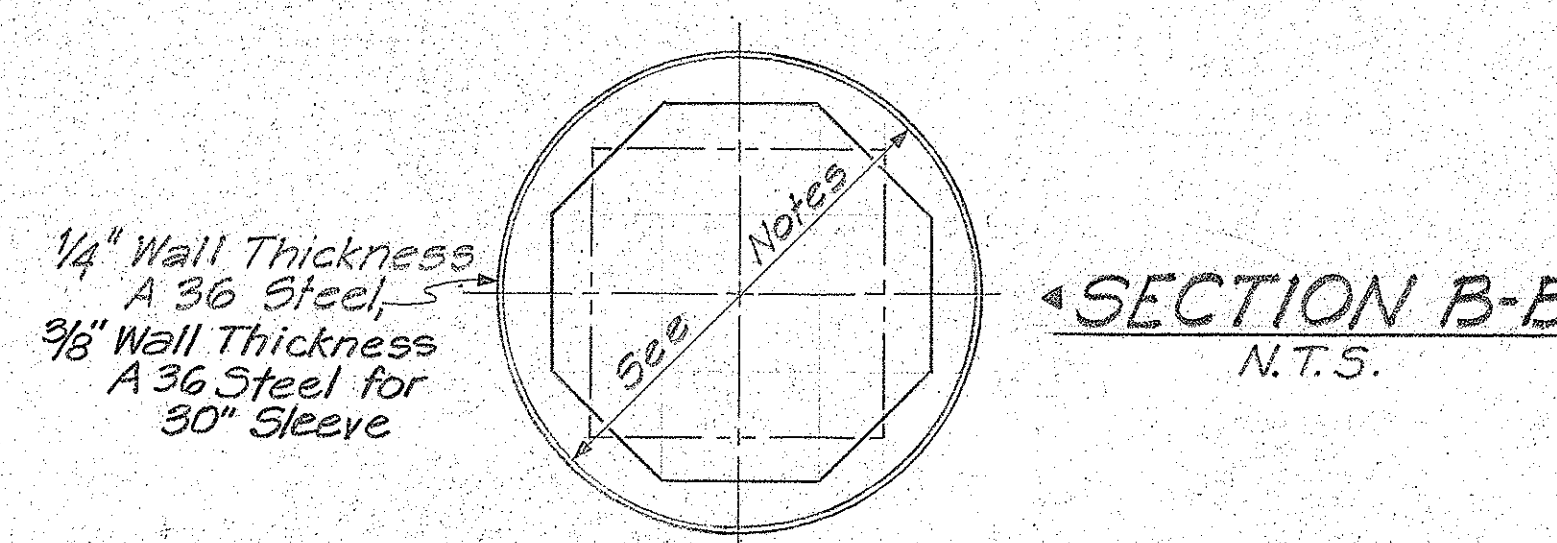
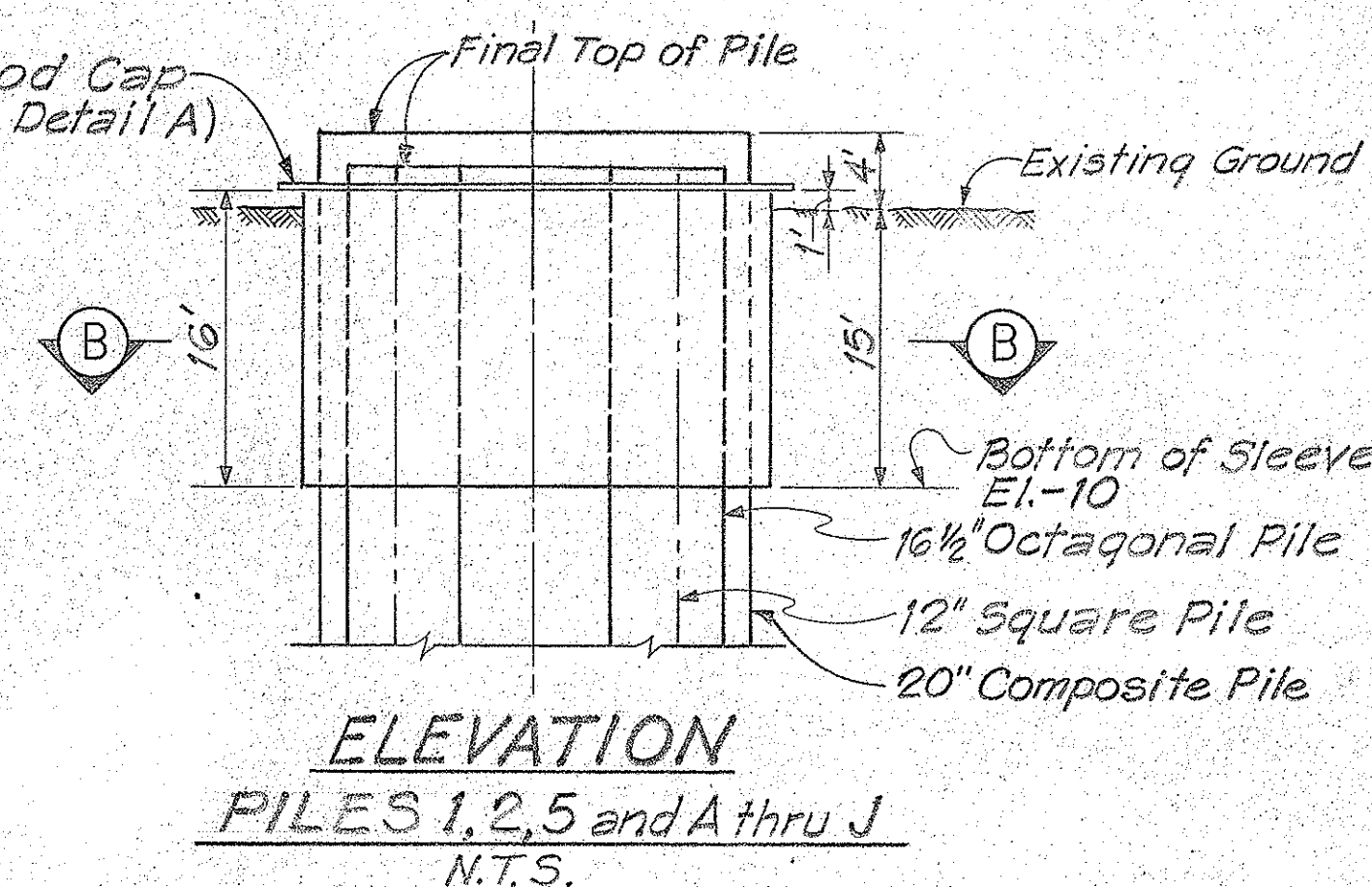
NOTES:

1. A 20" Steel Sleeve shall be used for the 12" Square Piles and a 24" Steel Sleeve for the 16 1/2" Octagonal Piles, and a 30" Steel Sleeve for the 20" Sq. Composite Piles.
2. Backfill requirement between Sleeve and Pile after driving shall be:
 - a. Piles A thru J-1, 2 & 5- Backfill with approved clean, coarse sand passing No. 4 sieve, not more than 5% passing No. 200 sieve, compacted in 6" layers by tamping with rods.
 - b. Piles 6 thru 9- Before adding Extension Sleeve create 12" thick seal in annular space below groundwater table using approved granular bentonite. Bentonite shall be capable of being effective in salt water. Fill space above seal with water. Splice on Extension Sleeve using water-tight connection. Fill with water to top of added Sleeve. Water level shall be maintained at full height throughout Testing Program.
3. 12ft Steel Sleeve Extension added after completion of pile driving.
4. Steel Sleeves shall be driven with a variation of not more than 1/4" per foot from the vertical.

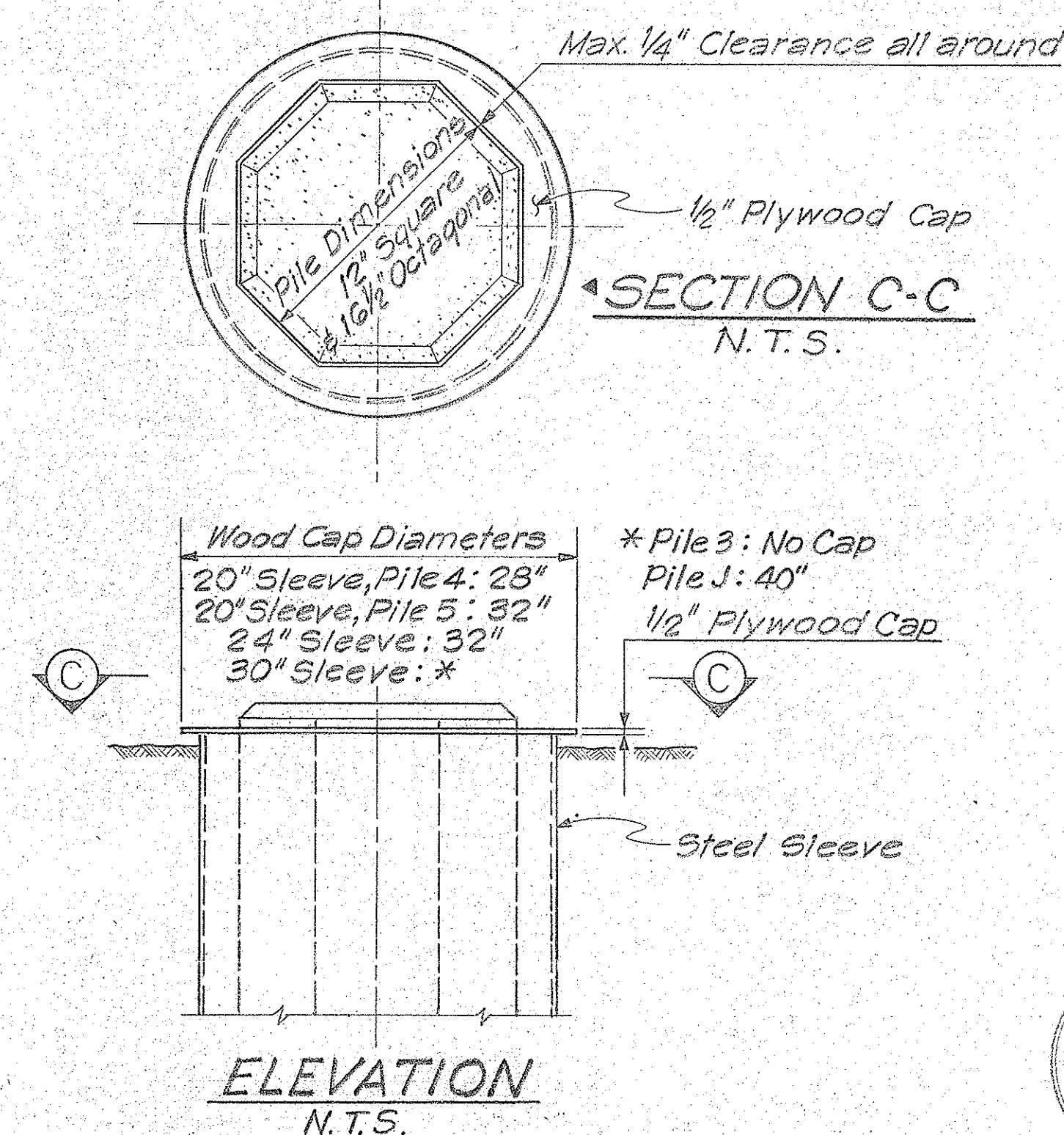


NOTE:

Wood Caps shall be Exterior Type Plywood of the grade Concrete Form Exterior, conforming to Specifications of the U.S. Department of Commerce, National Bureau of Standards, Commercial Standards, latest edition. Payment for Wood Caps shall be incidental to the various pay items furnishing Steel Sleeves.

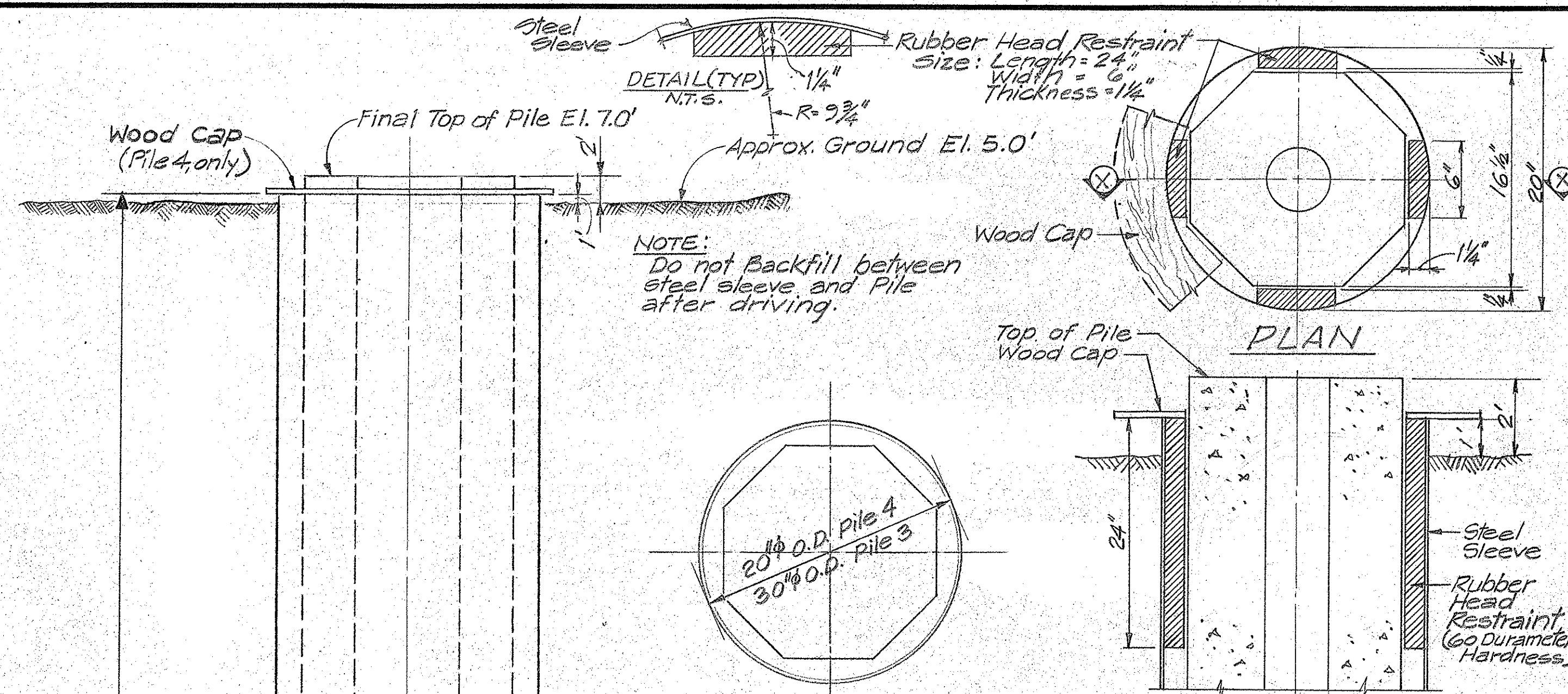


STEEL SLEEVES for PILES 1, 2, 5 thru 9 and A thru J

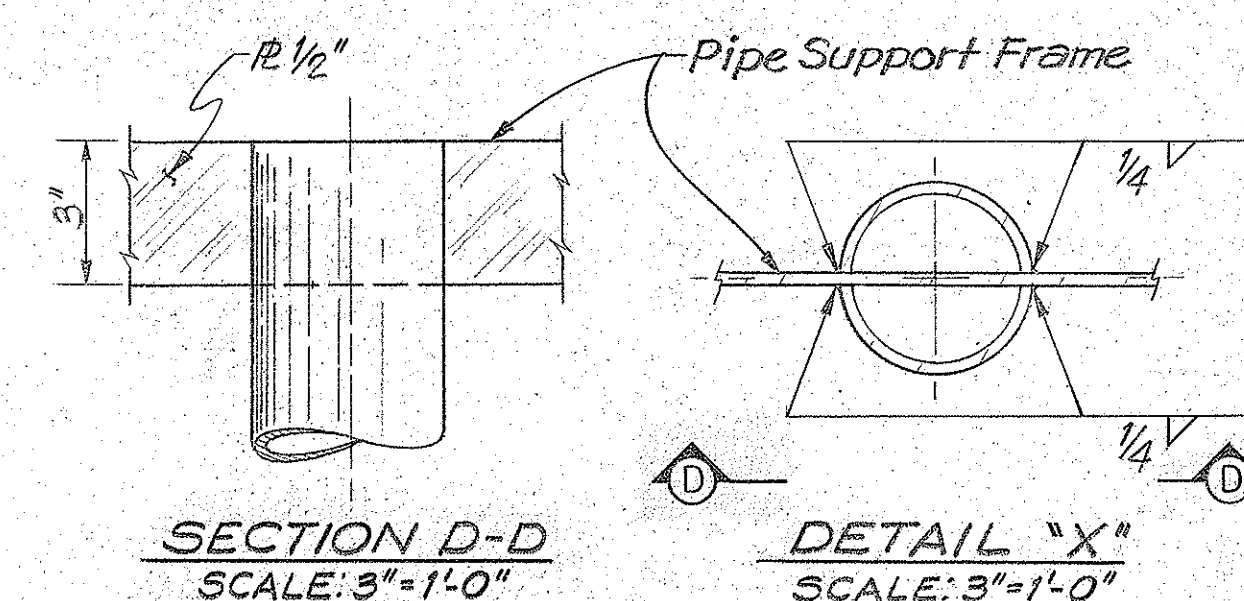
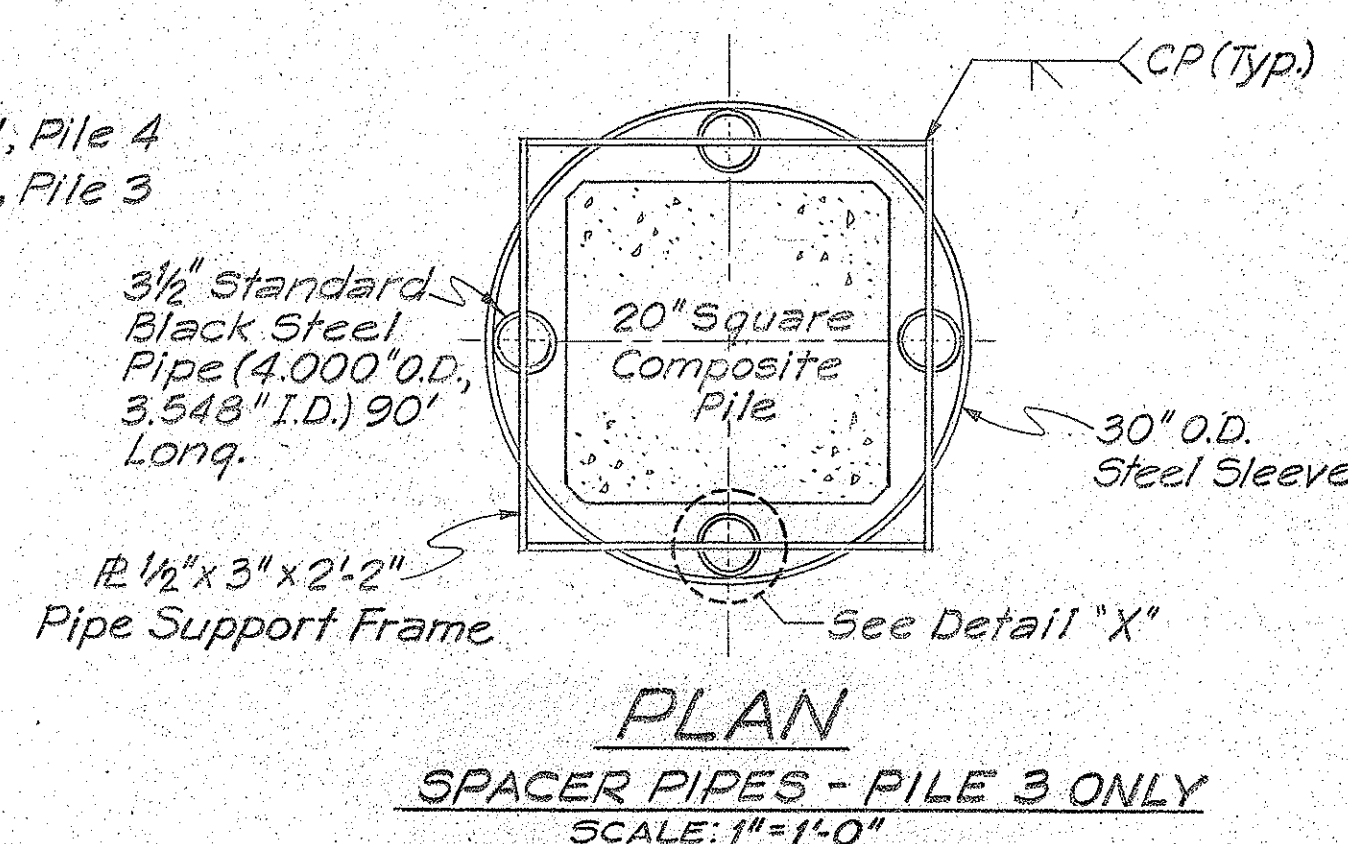
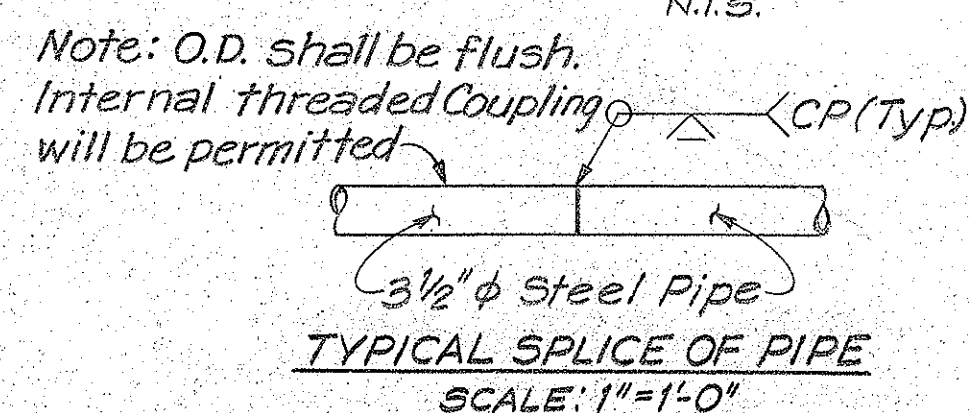


ELEVATION N.T.S.

DETAIL A (WOOD CAP)



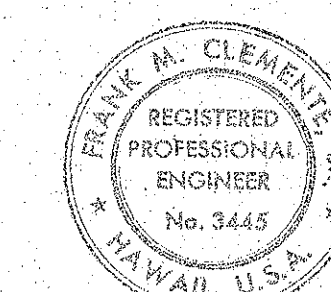
SECTION X-X RUBBER HEAD RESTRAINT PILE 4 ONLY N.T.S.



ELEVATION N.T.S.

STEEL SLEEVE for PILES 3 and 4 in TEST AREA 1A

NOTE: Steel sleeves shall be driven with a variation of not more than 1/4" per foot from the vertical.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Frank M. Clemente

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KEEHI INTERCHANGE
FIELD TESTING PROGRAM

STEEL SLEEVE DETAILS

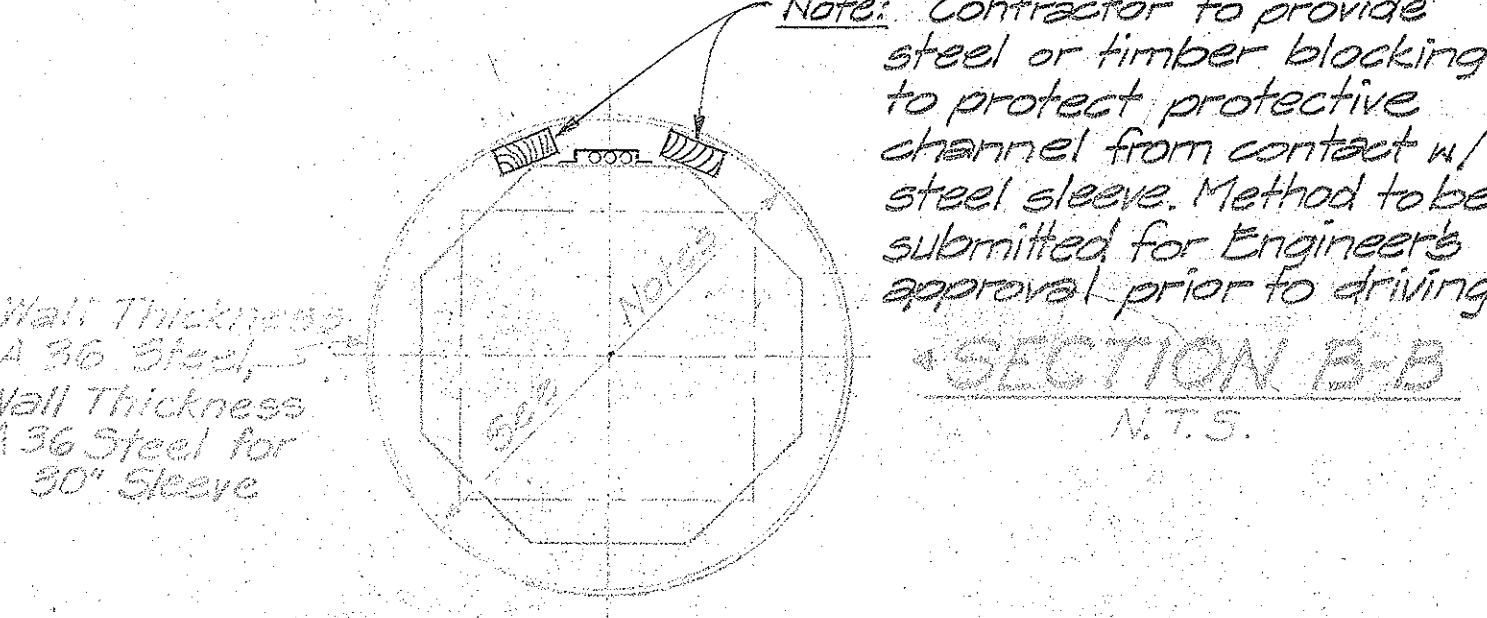
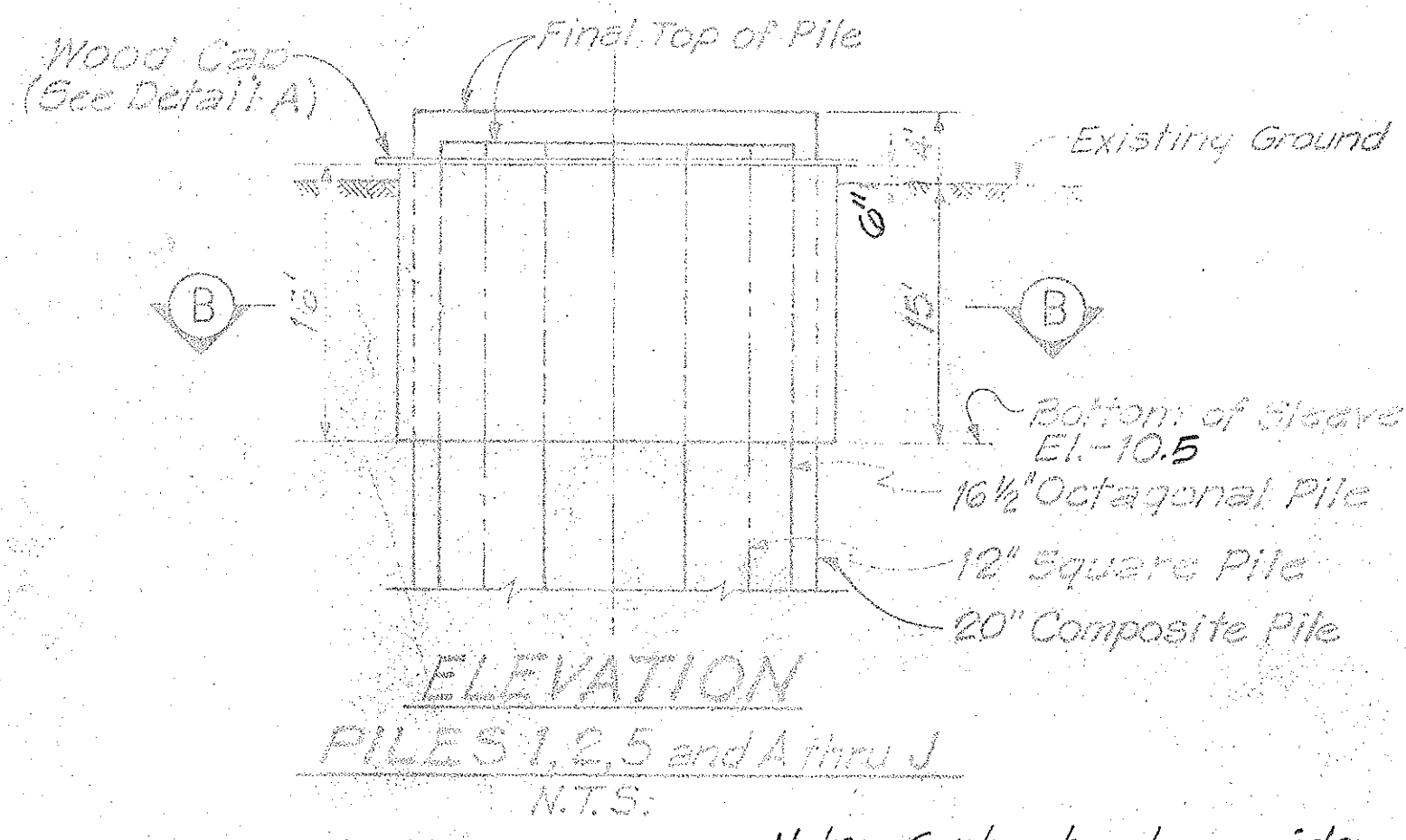
INTERSTATE ROUTE H-1
PROJECT NO. I-H-1-1(85)
SCALE: AS SHOWN DATE: 3/31/70
SHEET No. 12 OF 35 SHEETS

DATE	DESIGNED BY	CHECKED BY
ORIGINAL PLAN	NOTE BOOK	NO.

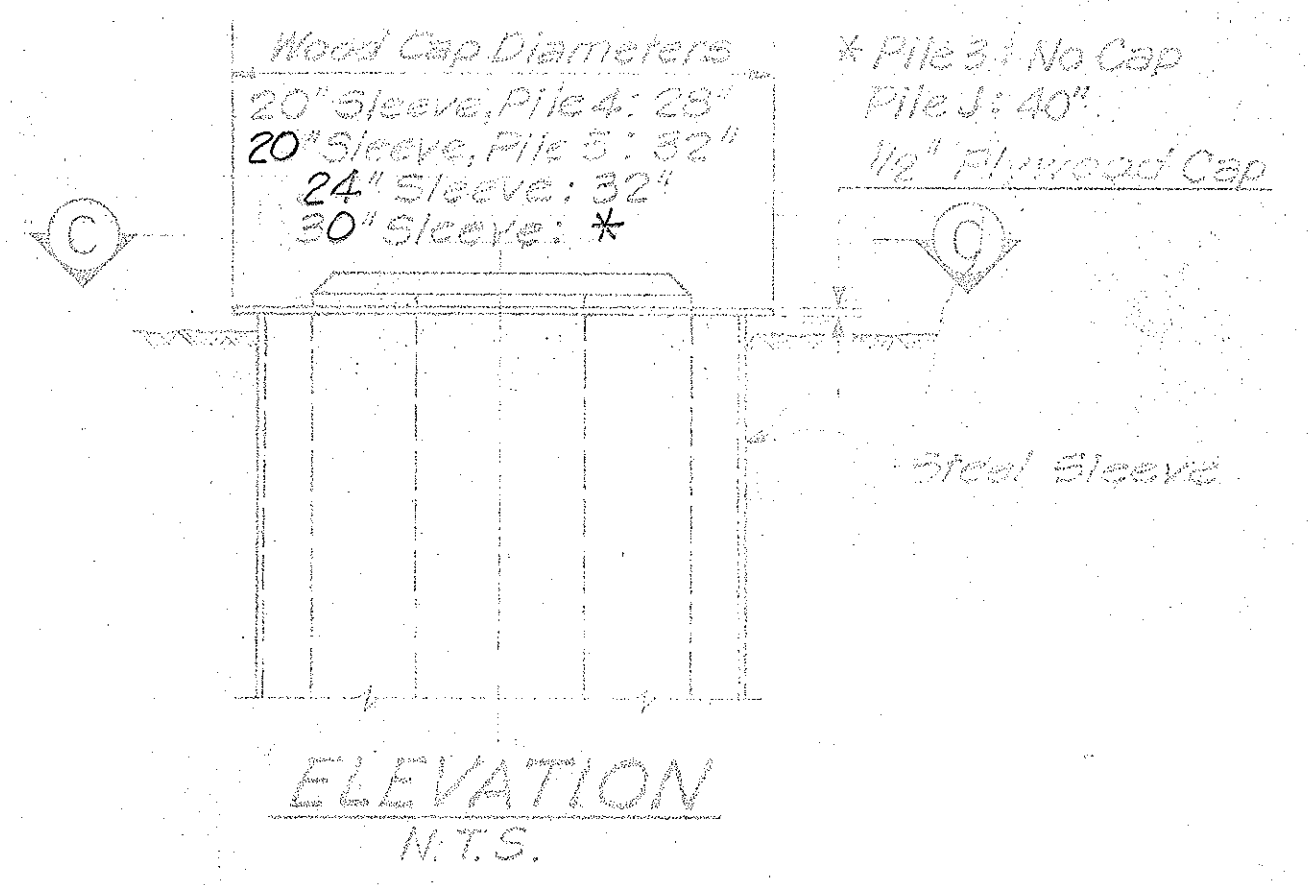
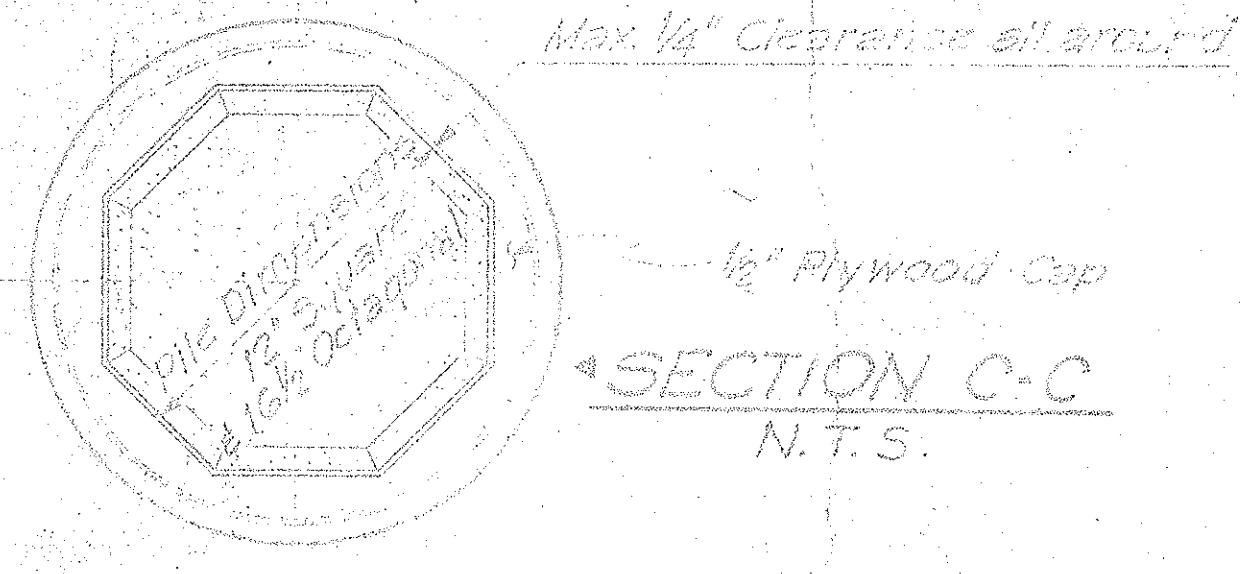
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(85)	1976	12	39

NOTES:

1. A 20" Steel Sleeve shall be used for the 12" Square Piles and a 24" Steel Sleeve for the 16 1/2" Octagonal Piles, and a 30" Steel Sleeve for the 20" Sq. Composite Piles.
2. Backfill requirement between Sleeve and Pile after driving shall be:
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 - b. Piles 6 thru 9- Before adding Extension Sleeve create 12" thick seal in annular space below groundwater table using approved granular bentonite. Bentonite shall be capable of being effective in salt water. Fill space above seal with water. Splice on Extension Sleeve using water-tight connection. Fill with water to top of added Sleeve. Water level shall be maintained at full height throughout Testing Program.
3. 12ft Steel Sleeve Extension added after completion of pile driving.
4. Steel sleeves shall be driven with a variation of not more than 1/4" per foot from the vertical.



STEEL SLEEVES for PILES 1, 2, 5 thru 9 and A thru J



DETAIL A (WOOD CAP)

NOTE:

Wood Caps shall be Exterior Type Plywood of the grade Concrete Form Exterior, conforming to Specifications of the U.S. Department of Commerce, National Bureau of Standards, Commercial Standards, latest edition.
Payment for Wood Caps shall be incidental to the various pay items, furnishing Steel Sleeves.

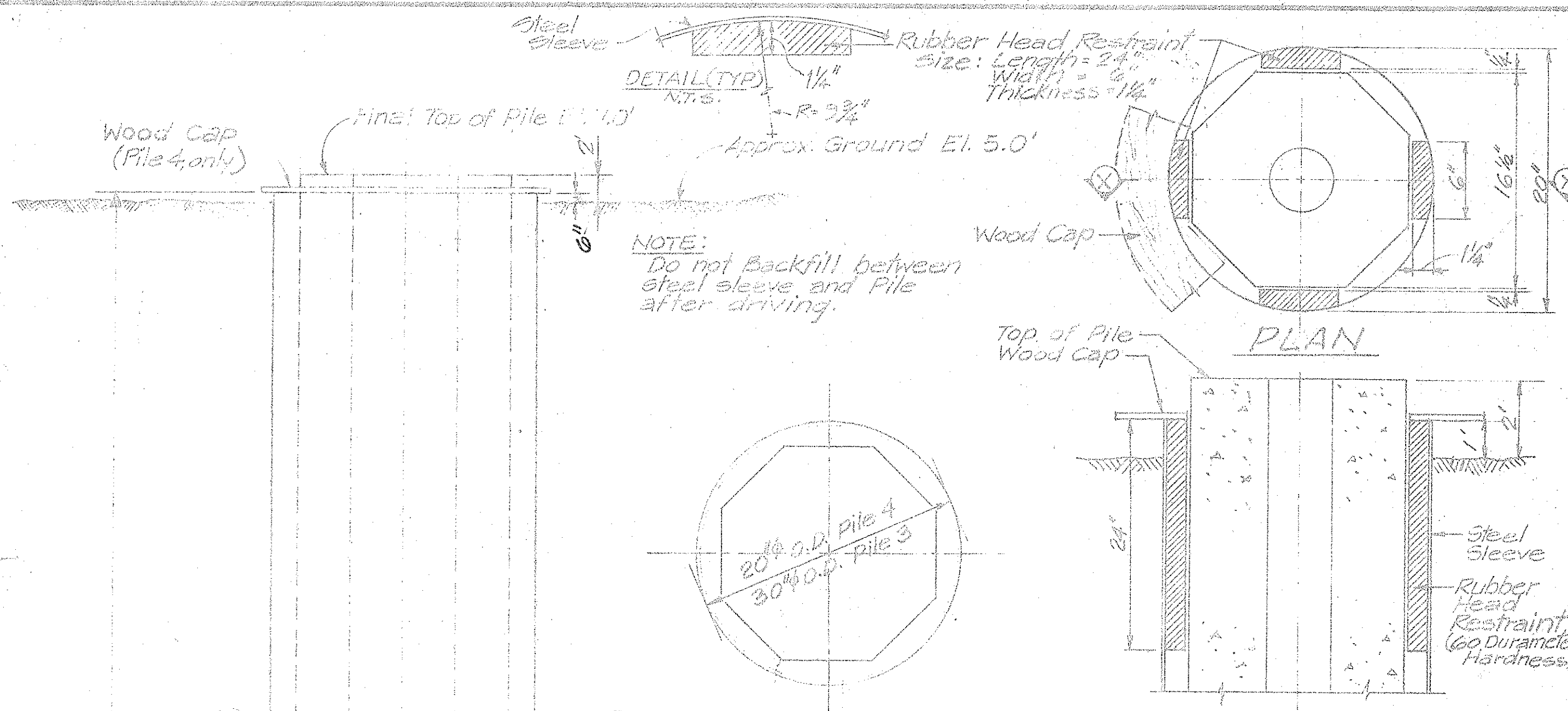
3/1/77 Spacer pipe detail changed. Note on Section B-B added.

Date Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KEEHI INTERCHANGE
FIELD TESTING PROGRAM

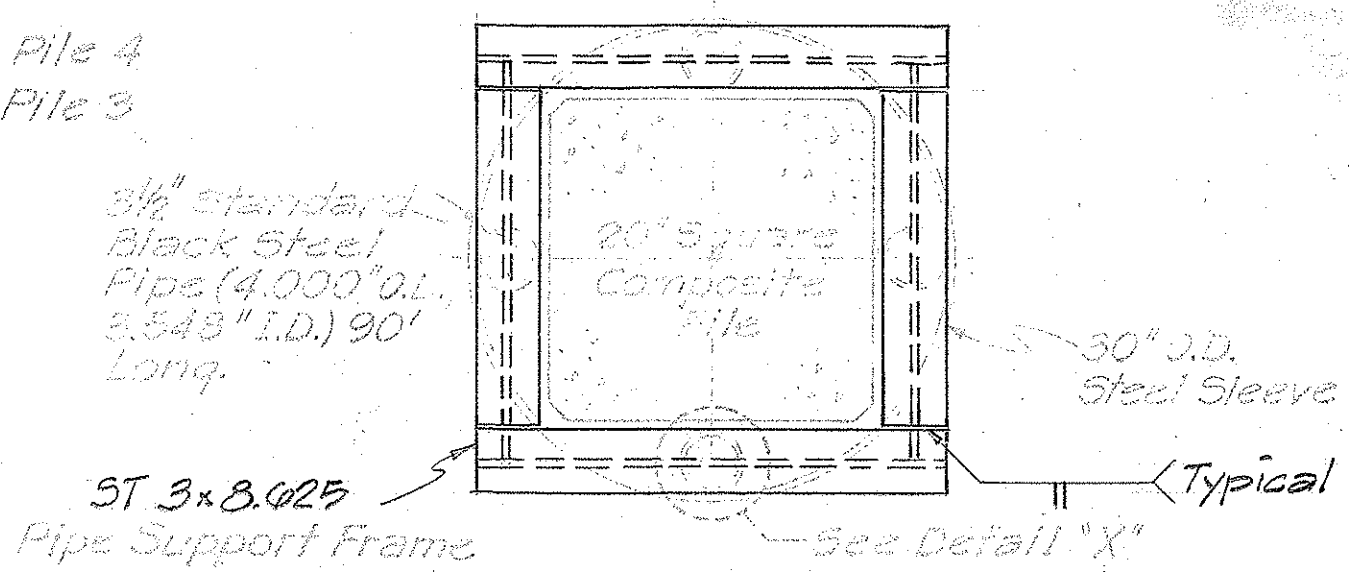
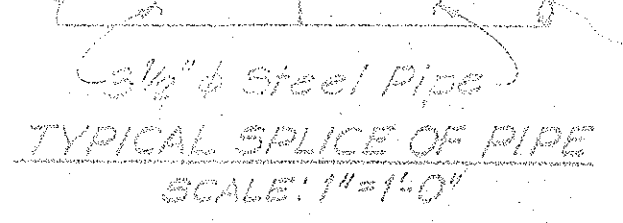
STEEL SLEEVE DETAILS

INTERSTATE ROUTE H-1
PROJECT NO. I-H-1(85)
SCALE: AS SHOWN DATE: 3/31/76
SHEET NO. 12 OF 36 SHEETS

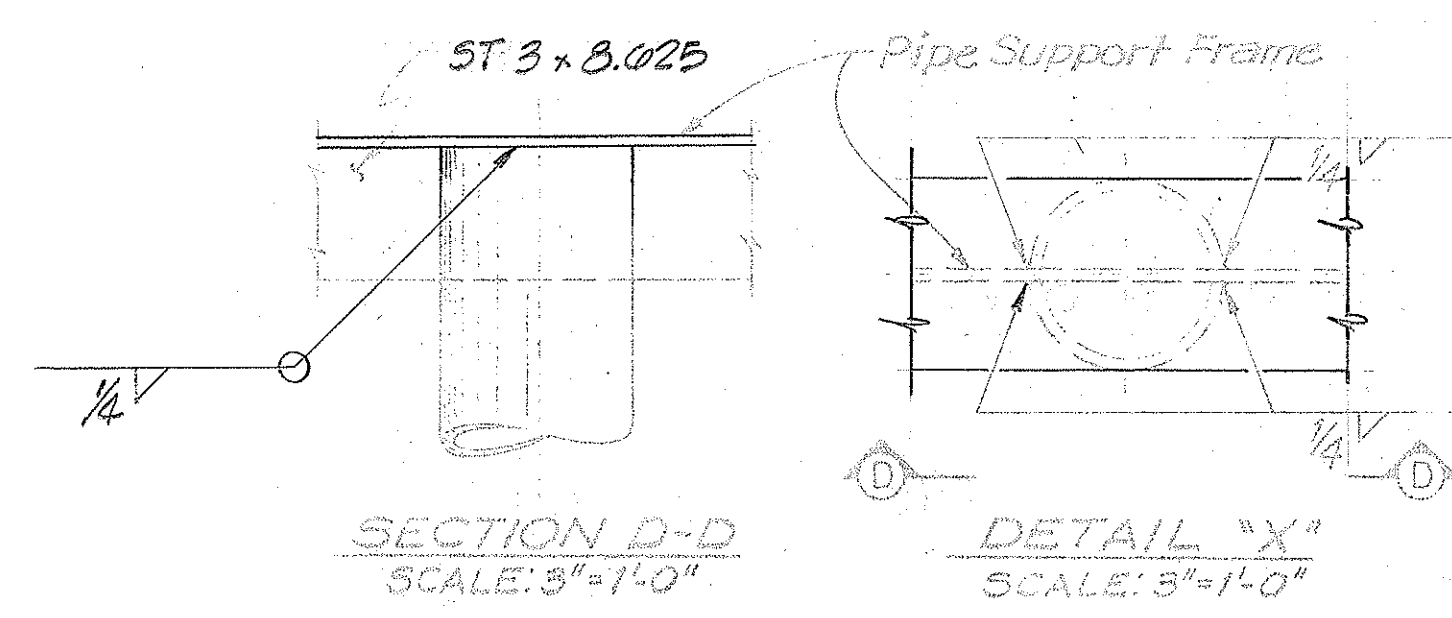


SECTION XX RUBBER HEAD RESTRAINT PILE 4 ONLY N.T.S.

Note: O.D. shall be flush. Internal threaded coupling will be permitted.



PLAN SPACER PIPES - PILE 3 ONLY SCALE: 1\"/>



SECTION D-D SCALE: 3\"/>

DETAIL "X" SCALE: 3\"/>

ELEVATION N.T.S.

STEEL SLEEVE for PILES 3 and 4 in TEST AREA 1A

NOTE: Steel sleeves shall be driven with a variation of not more than 1/4" per foot from the vertical.

DATE: 3/1/77
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
QUANTITIES BY: [Signature]
APPROVED BY: [Signature]