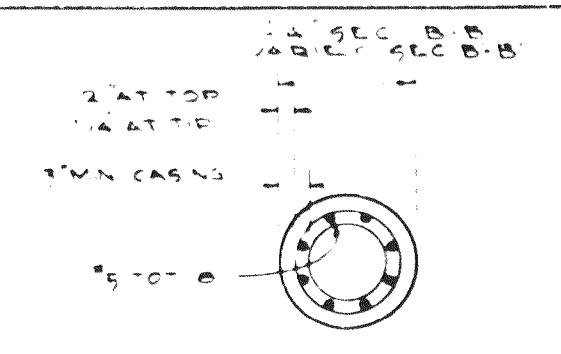
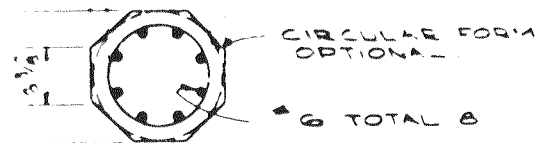




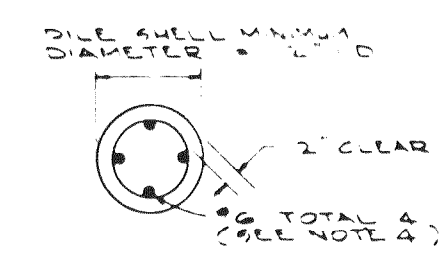
SECTION B-B
SCALE 3/4" = 1'-0"
SECTION B-B SIMILAR EXCEPT AS NOTED

AS AN ALTERNATIVE TO THE REINFORCEMENT SHOWN, AFTER 48 HRS. OF CONSTRUCTION, REINFORCEMENT MAY BE SELECTED TO HAVE A TOTAL WEIGHT TO LOAD A LESS THAN 1000 LBS. AT NO TIME SHALL THE STRESS IN THE STEEL EXCEED 0.3 OF ITS ULTIMATE VALUE.

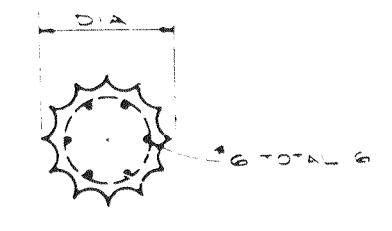


SECTION C-C
SCALE 3/4" = 1'-0"

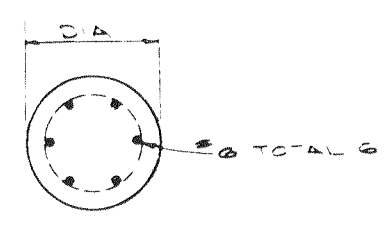
Bridge #AL-9
Second Street Bridge
over Aliso Creek
Sheet 2 of 3
No Scale
Autopositive



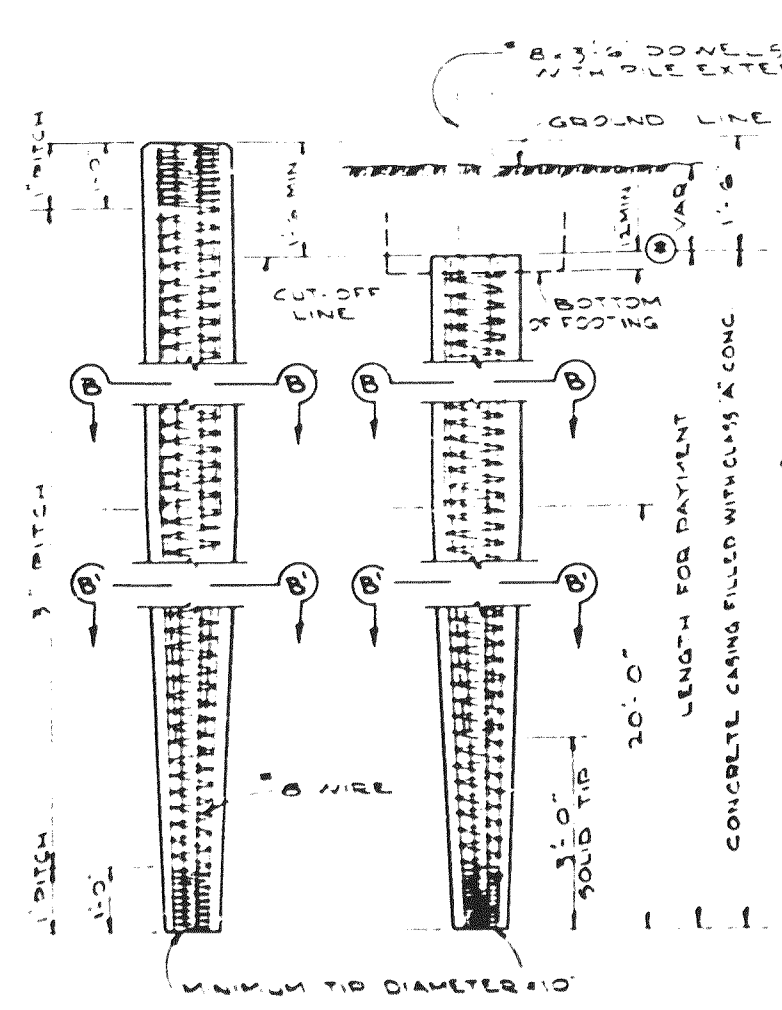
PLAN
SCALE 3/4" = 1'-0"



SECTION D-D
SCALE 3/4" = 1'-0"

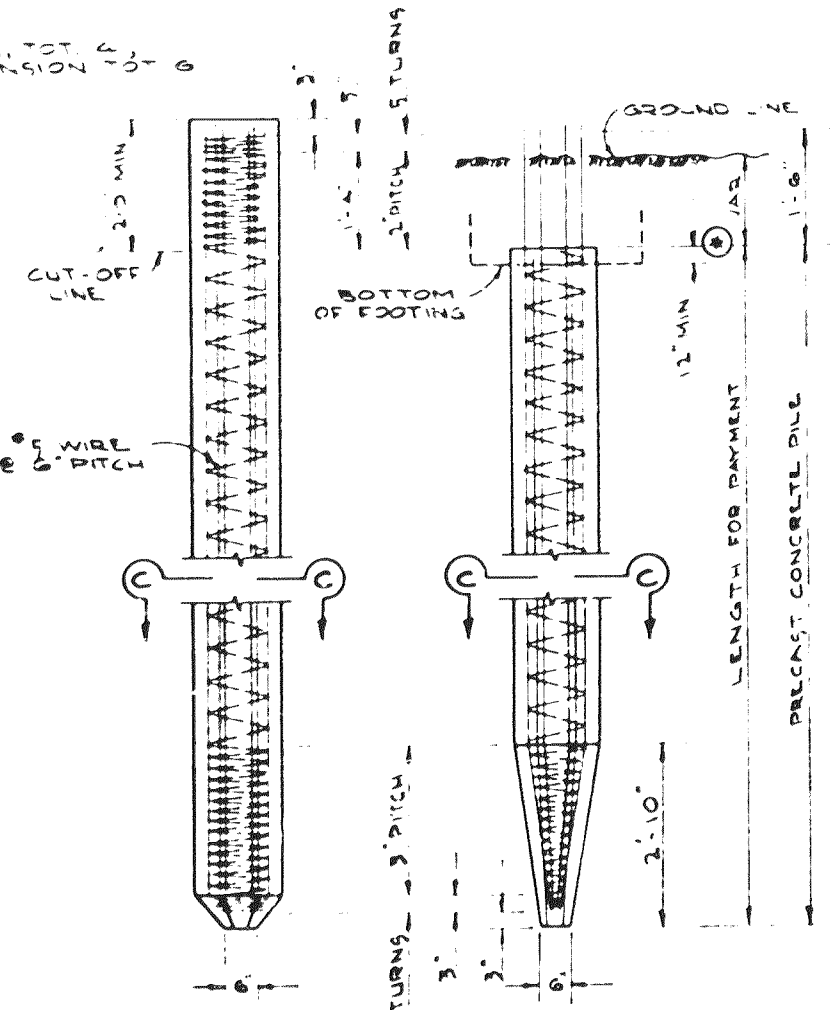


SECTION E-E
SCALE 3/4" = 1'-0"

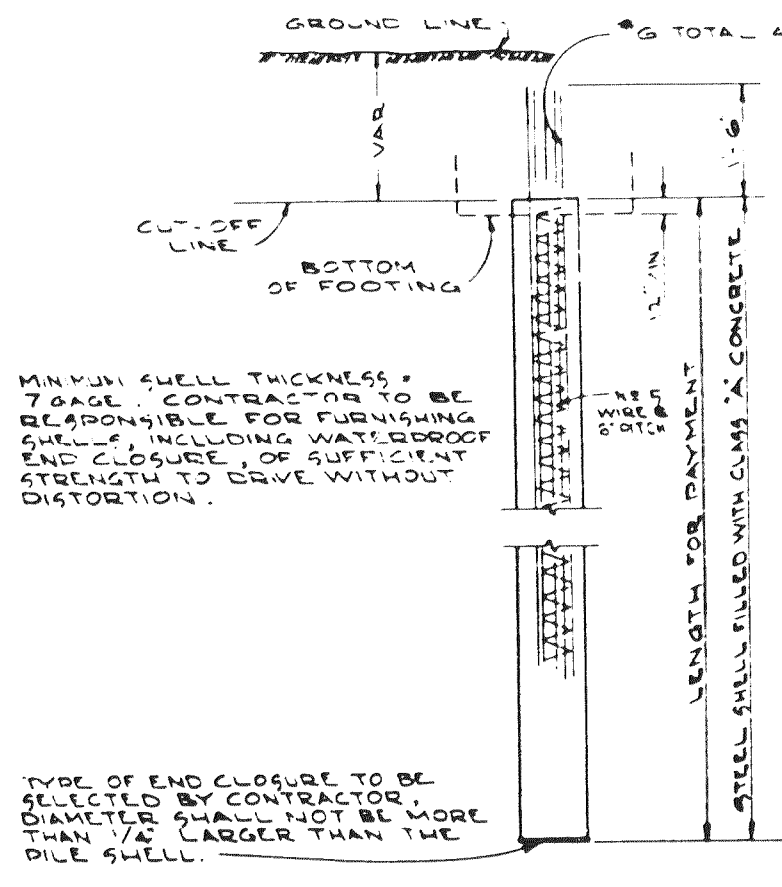


LONGITUDINAL REINFORCEMENT IN THE DRIVEN PORTION OF ALTERNATIVE 'W' SHALL BE PRESTRESSED TO 0.0000 LBS PER BAR

CENTRIFUGALLY SPUN
CONCRETE PILE
ALTERNATIVE 'W'



PRECAST
CONCRETE PILE
ALTERNATIVE 'X'

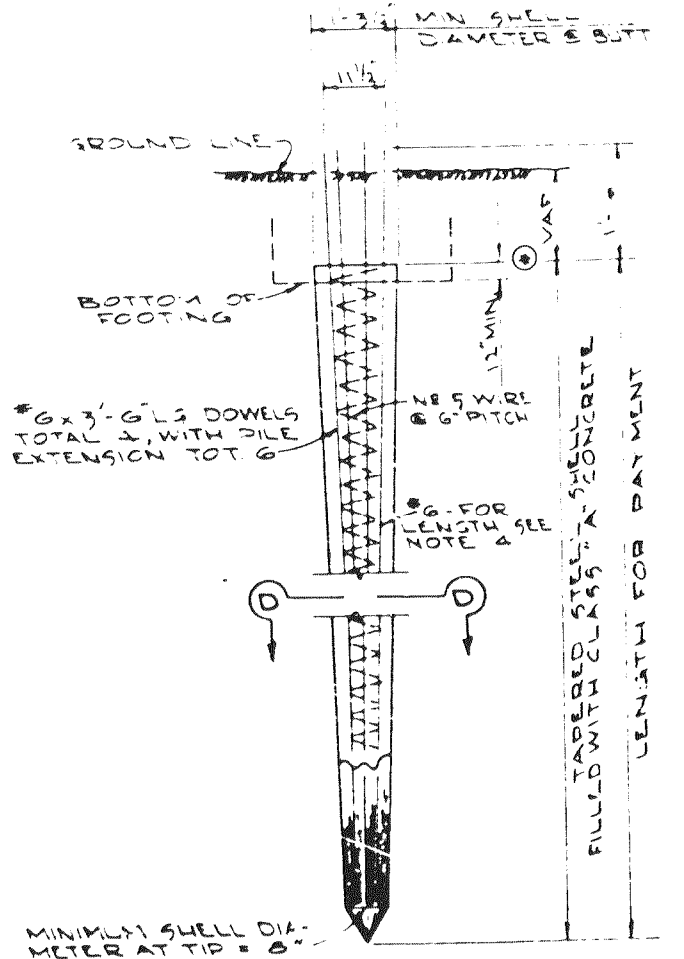


MINIMUM SHELL THICKNESS = 7 GAGE. CONTRACTOR TO BE RESPONSIBLE FOR FURNISHING SHELL, INCLUDING WATERPROOF END CLOSURE, OF SUFFICIENT STRENGTH TO DRIVE WITHOUT DISTORTION.

TYPE OF END CLOSURE TO BE SELECTED BY CONTRACTOR. DIAMETER SHALL NOT BE MORE THAN 1/8" LARGER THAN THE PILE SHELL.

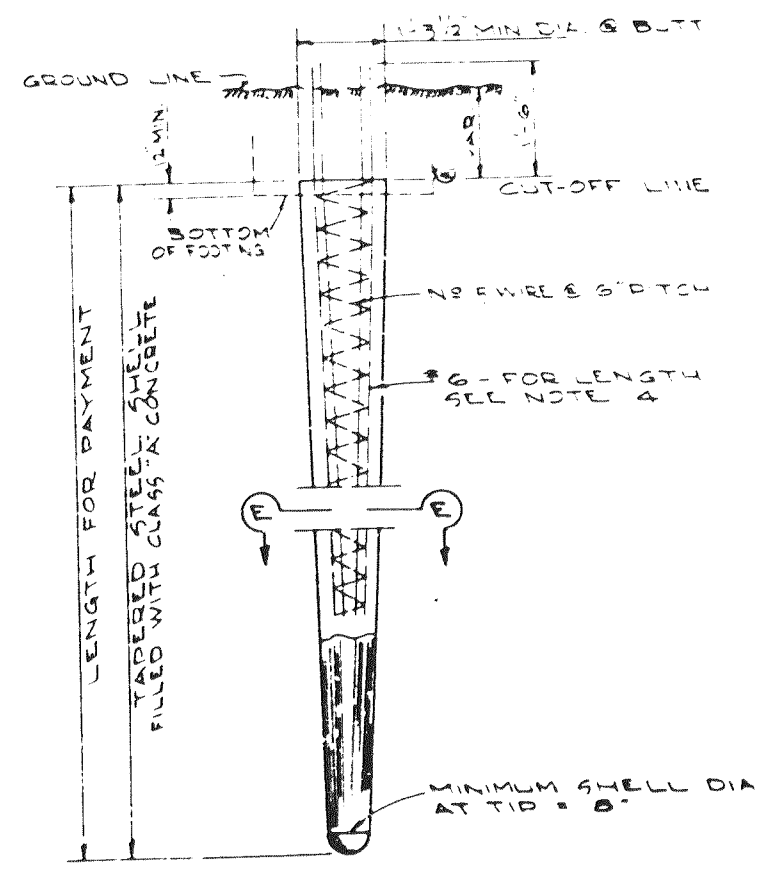
CAST-IN-PLACE
CONCRETE PILE
ALTERNATIVE 'U'

EXTENSIONS OF ALTERNATIVE 'U' WILL NOT BE PERMITTED ABOVE THE GROUND WITH EITHER THE TYPICAL PILE EXTENSION OR THE 12" PILE SHELL.

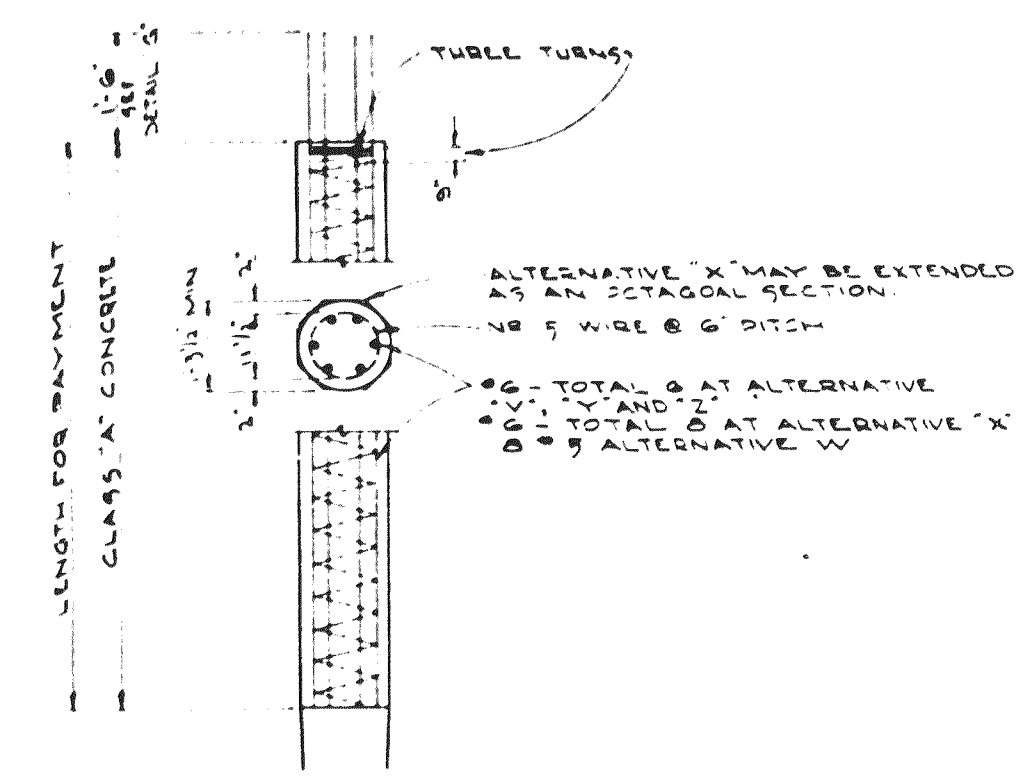


MINIMUM SHELL THICKNESS = 8 GAGE. CONTRACTOR TO BE RESPONSIBLE FOR FURNISHING SHELL OF SUFFICIENT THICKNESS TO DRIVE WITHOUT DISTORTION.

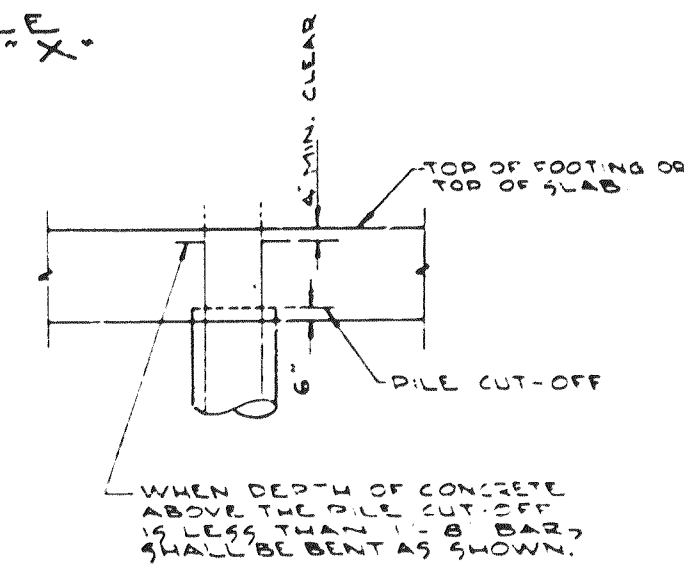
CAST-IN-PLACE
CONCRETE PILE
ALTERNATIVE 'Y'



CAST-IN-PLACE
CONCRETE PILE
ALTERNATIVE 'Z'



TYPICAL PILE EXTENSION
TYPICAL EXCEPT FOR ALTERNATIVE 'U'



DETAIL 'G'

NOTES

1. FOR ALTERNATIVES 'W' AND 'X' THE PILES MAY BE DRIVEN FULL LENGTH AND CUT OFF WITHOUT EXTENSION OR THEY MAY BE EXTENDED AS SHOWN AT THE OPTION OF THE CONTRACTOR.
2. WHEN ALTERNATIVES 'Y' AND 'Z' ARE EXTENDED ABOVE GROUND, THE TYPICAL PILE EXTENSION SHALL BE USED.
3. WHEN PILES ARE EXTENDED THE ELEVATION OF CUT-OFF SHALL BE LOCATED 1'-0" MINIMUM BELOW GROUND LINE, UNLESS SHOWN OTHERWISE ON THE PLANS.
4. IN ALTERNATIVES 'U', 'Y' & 'Z' THE LENGTH OF #6 BARS, MEASURED BELOW GROUND LINE OR BOTTOM OF FOOTING, SHALL BE EITHER (1) A MINIMUM OF 1/3 PENETRATION, OR (2) 20', WHICHEVER IS THE GREATER.
5. WHEN THE 'TOP OF A BEARING STRATA' IS INDICATED ON THE PLANS, THE LENGTH OF #6 BARS, MEASURED BELOW THE TOP OF THE BEARING STRATA, SHALL BE EITHER (1) A MINIMUM OF 1/3 PENETRATION INTO THIS STRATA OR (2) 12' WHICHEVER IS THE GREATER.

CAST-IN-DRILLED-HOLE PILES PERMITTED
SEE SPECIAL PROVISIONS

Bridge #AL-9
Second Street
Sheet 2 of 6
Rev. 10/15/77
Scale None
Brownline

MICROFILM
JUN 14 1982

SHEET 1 PLAN & DETAILS
SHEET 2 PILE DETAILS

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT	
SECOND STREET BRIDGE OVER ALISO CREEK	
AL-9	
PILE DETAILS	
SCALE: None	SHEET 2 OF 3