FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	S-7566		30	39

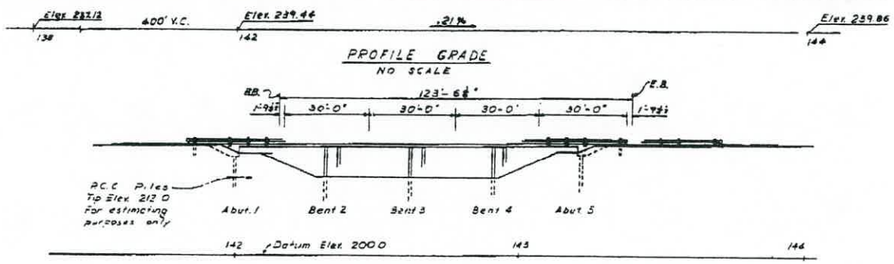
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	BUT	~~47~~ 32	B	4	5

Approved State Highway Engineer — Civil Engineer Licensed 1957

Date approved February 25, 1957

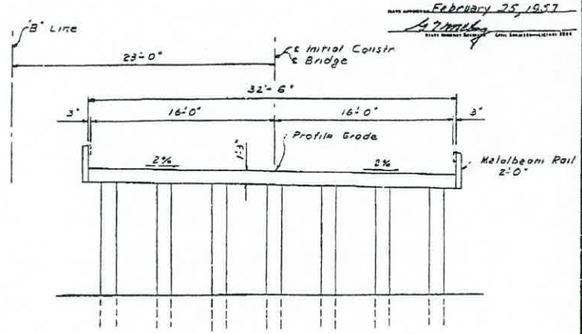
State Highway Engineer — Civil Engineer Licensed 1957

P.M. 11.1



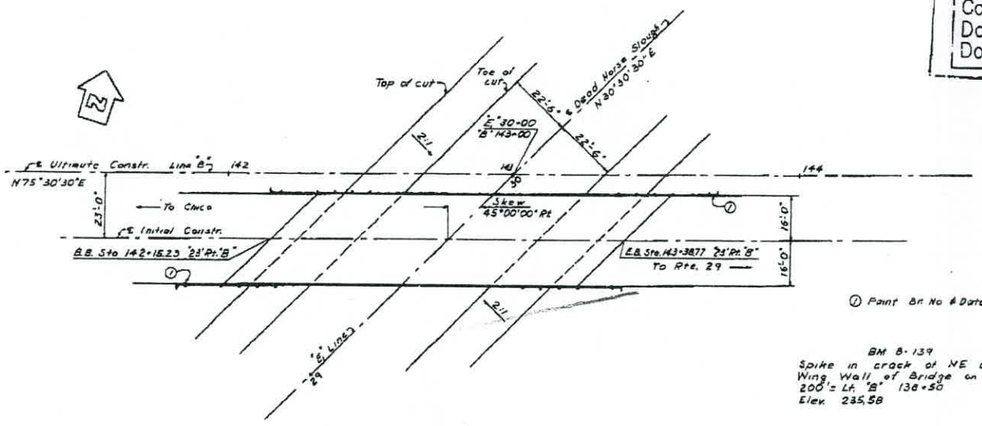
PROFILE GRADE
NO SCALE

ELEVATION
SCALE 1" = 20'



TYPICAL SECTION
SCALE 1" = 5'

AS BUILT PLANS
Contract No. 57-3TC37
Date Completed
Document No. 3000 1244



PLAN
SCALE 1" = 20'

① Paint Br. No. & Date on Rail element

BM 8-139
Spike in crack of NE concrete
Wing Wall of Bridge on Forest Ave
200' = Lt. "B" 138+50
Elev. 235.58

INDEX TO PLANS

1 General Plan
2 Foundation Plan
3 Structural Details
4 Pile Details
5 Log of Test Borings

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	40 C.Y.
STRUCTURE BACKFILL	25 C.Y.
CLASS "A" CONCRETE (BRIDGES)(200 C.Y.)	LUMP SUM
BAR REINFORCING STEEL (BRIDGES)(57,000 LBS.)	LUMP SUM
FURNISHING CONCRETE PILES	835 L.F.
DRIVING PILES	31
METAL BEAM BRIDGE RAILING	300 L.F.

NO AS BUILT CORRECTIONS

CONTRACT 57-3TC37-F

M. E. Tyson Sr. R.E. 8 NOVEMBER 1957.

Chico to Hog Springs
III-But-47-B
Contract 57-3TC37-F
S-761(1)

Live Load H 20-S16-44

For General Notes See "Structural Details" sht.

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer O. Bender
Chief Designer John J. Kozak

DESIGN	O. Bender		2-57
DETAILS	O. Bender Jan 56		2-57
QUANTITIES			
SPECIFICATIONS	PSD 1-57	O. Bender	PSD 1-57

57-3TC37 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

DEAD HORSE SLOUGH BRIDGE
LOCATED ABOUT .9 MILE EAST OF CHICO IN BUTTE COUNTY

GENERAL PLAN

SCALE As Shown | BRIDGE 12-135 | FILE | DRAWING C-5205-1

PREL. DRAWING No. P-5205

30

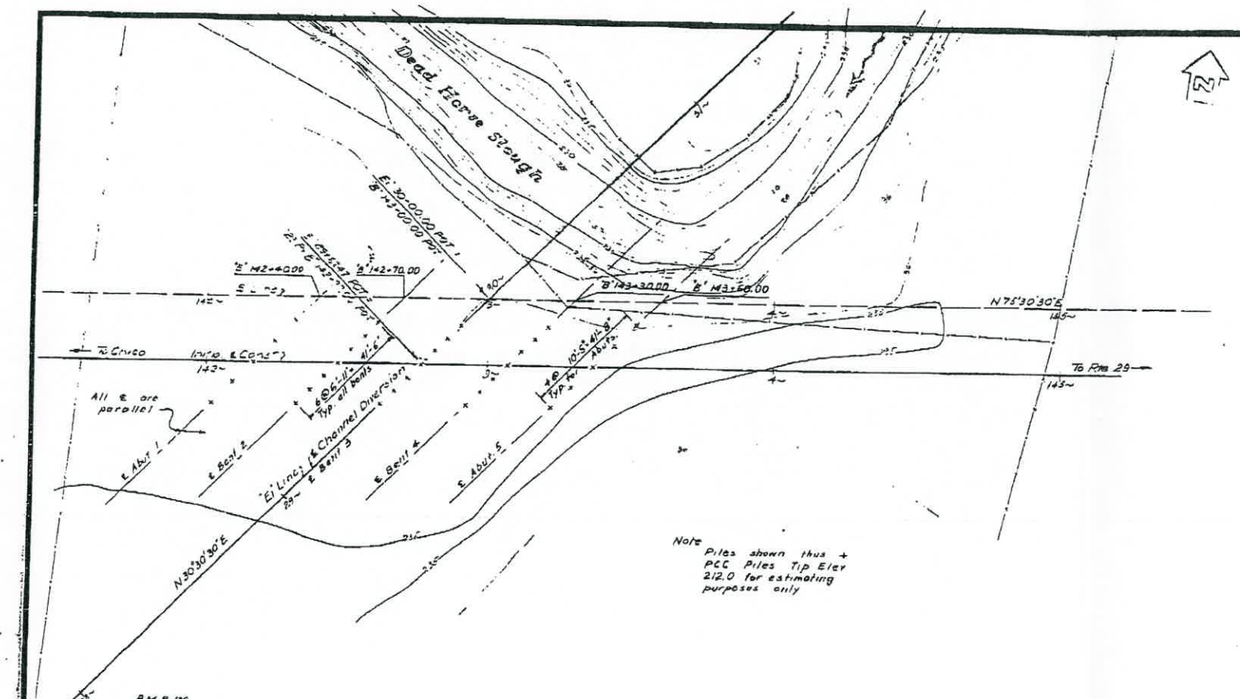
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE May 11, 1971 SIGNATURE [signature] TITLE HAO I

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	S-756(1)		31	39

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But	7	B	2	5

Date Approved February 25, 1957



BM B-139
Spike in crack at N.E. conc
Wing Wall of Br on Forest Ave
200'± Lt "B" 139+60
Elev 235.58

BM 140
Copper nail & washer in base on
N side of 36" blk oak on S side
Humbolt Rd opposite Auto repair
garage bet Forest Ave & El Monte Ave
Elev 238.54

AS BUILT PLANS
Contract No. 57-3TC37
Date Completed
Document No. 3000 1244

NO AS BUILT CORRECTIONS
CONTRACT 57-3TC37-F
R.E.
8 NOVEMBER 1957

Chico to Hog Springs
III-But-47-B
Contract 57-3TC37-F
S-762(1)

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer C. Bender
Chief Designer John J. Kopf

DESIGN	by C. Bender	Checked	2-57
DETAILS	by C. Bender	Checked	2-57
QUANTITIES	by	Checked	2-57
SPECIFICATIONS	by		

Approved Recommended by Paul Hutchinson

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DEAD HORSE SLOUGH BRIDGE

FOUNDATION PLAN

SCALE 1"=20' | BRIDGE 12-135 | FILE E-12 | DRAWING C-5205-2 1

PREL. DRAWING No. P-5205 6 | PR 5205-3

LEVEL DATUM USC & GS
FOR APPROVAL FILE NO. PR 5205-1
CONTOURS SHOWN From Drawing PR 5205-1
SITE PLAN ID (SPAN/PIER) DISTRICT DATE
QUANTITY BY HIK DATE 9-56
DRAWN BY DATE
TRACED BY JGO DATE 10-3-56

31

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

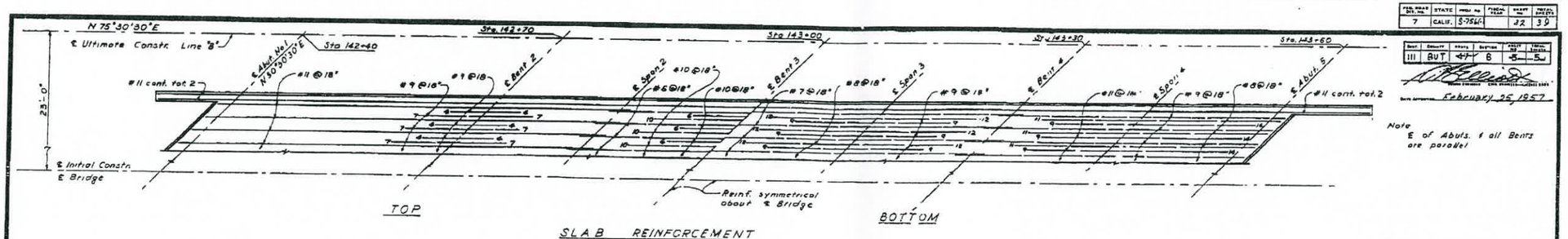
DATE May 11, 1971 SIGNATURE [signature] TITLE HAO I

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	S-7841		32	39

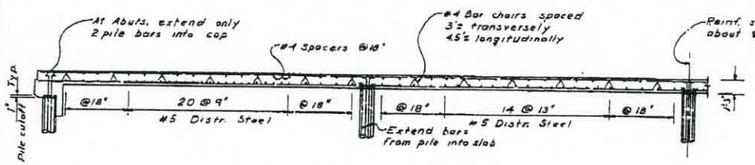
DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL PROJECT
III	BUT	47	B	5	5

February 25, 1957

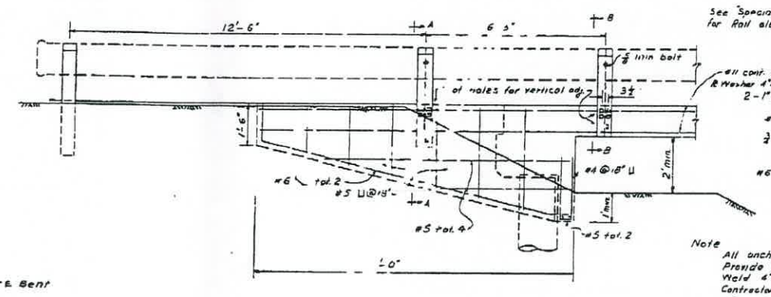
Note
℄ of Abuts. & all Bents are parallel

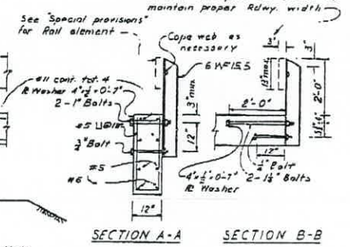


SLAB REINFORCEMENT
SCALE 1/2" = 1'-0"



LONGITUDINAL PART SECTION
SCALE 1/2" = 1'-0"



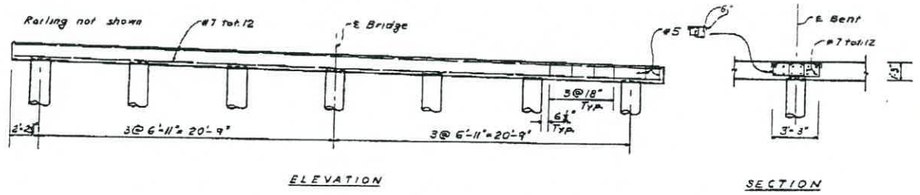


SECTION A-A SECTION B-B

A 4" section may be used provided suitable 1" shims are used to hold the post out so as to maintain proper Rdwy. width

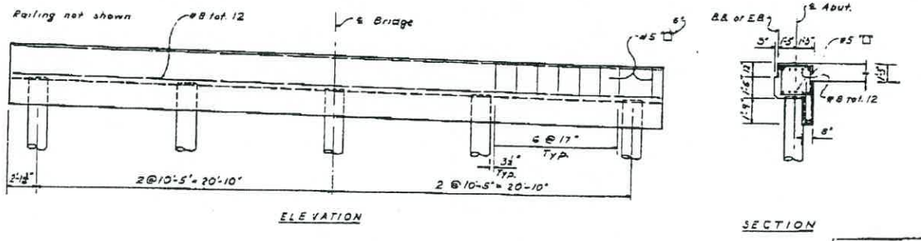
Note
All anchor bolts to have hex. nuts & cut washers
Provide lock washers for top anchor bolts
Weld 6"x6" pads on WF posts under top anchor bolts
Contractor to provide suitable sheet metal shims to align posts

TYPICAL CANTILEVER WINGWALL
SCALE 1/2" = 1'-0"



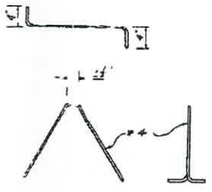
ELEVATION SECTION

TYPICAL BENT CAP
SCALE 1/2" = 1'-0"



ELEVATION SECTION

TYPICAL ABUTMENT CAP
SCALE 1/2" = 1'-0"



BAR CHAIR
NO SCALE

NO AS BUILT CORRECTIONS
CONTRACT 57-3TC37-F
R.E. 8 NOVEMBER 1957

Chico to Hog Springs
III-But-47-B
Contract 57-32037-F
S-7841(1)

AS BUILT PLANS
Contract No. 57-3TC37
Date Completed
Document No. 3000 12.44

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer: C. Bellah
Chief Designer: Jul J. Kozak

DESIGN	by R. Bender	Checked Wallace 2-57
DETAILS	by O. Bender	Checked Wallace 2-57
QUANTITIES	by Wallace 2-57	Checked C. Bellah
SPECIFICATIONS	by	Plans and Data Prepared
Approved Recommended by		Date Approved

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DEAD HORSE SLOUGH BRIDGE

STRUCTURAL DETAILS

SCALE	As Shown	BRIDGE	12-135	FILE	DRAWING	C-5205-3 (1)

PRES. DRAWING No. P-5205 (3)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE May 11, 1971 SIGNATURE [illegible] TITLE HAOI

32

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	BUT	47	B	4	5

February 25, 1957

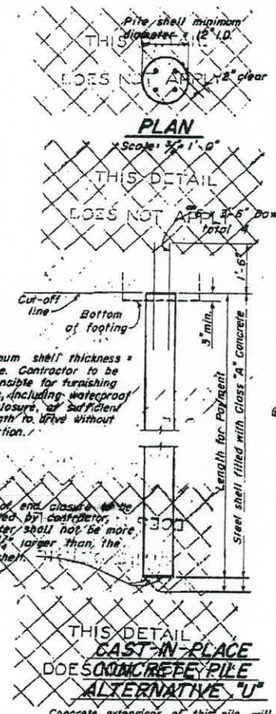
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	S-7541(1)		33	39

AS BUILT PLANS
Contract No. 57-37237
Date Completed
Document No. 3000 12 XX

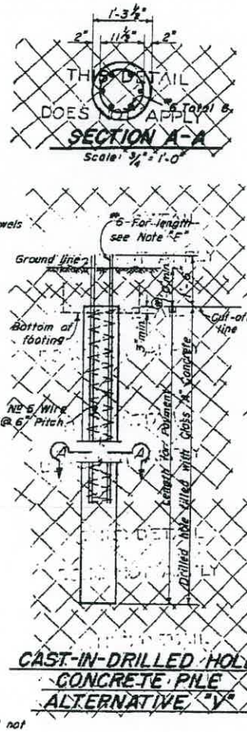
BRIDGE DEPARTMENT

33

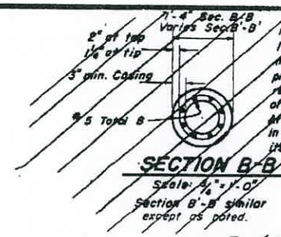
PLAN
Scale: 3/4" = 1'-0"



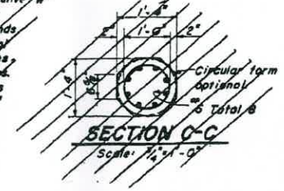
SECTION A-A
Scale: 3/4" = 1'-0"



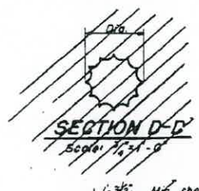
SECTION B-B
Scale: 3/4" = 1'-0"
Section B'-B' similar except as noted.



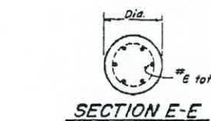
As an alternative to the reinforcement shown, alternative "W" longitudinal reinforcement may consist of steel strands prestressed to have a total remaining force after losses, of not less than 87,000 lbs. at no time shall the stress in the steel exceed 0.8 of its ultimate value.



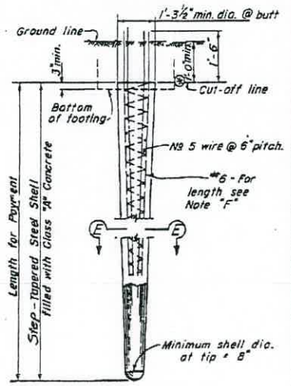
SECTION C-C
Scale: 3/4" = 1'-0"



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



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



CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "U"

Concrete extensions of this pile will not be permitted.

CAST-IN-DRILLED HOLE CONCRETE PILE ALTERNATIVE "V"

CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "W"

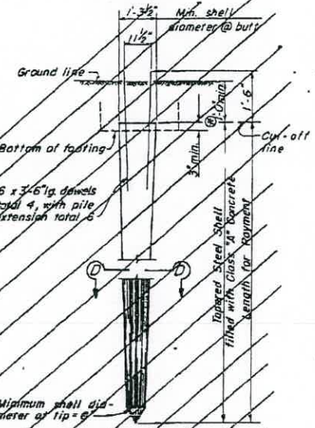
Longitudinal reinforcement in the drivin portion of Alternative "W" shall be prestressed to 10,000 lbs. per bar.

CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "X"

ALTERNATIVE TIP

As an alternative to the reinforcement shown this pile may be prestressed by the use of steel strands to provide a total remaining force after losses of not less than 150,000 lbs. At no time shall the stress in the steel exceed 0.8 of its ultimate value.

PRECAST CONCRETE PILE ALTERNATIVE "Y"



Minimum shell thickness = 9 gage. Contractor to be responsible for furnishing shells of sufficient thickness to drive without distortion.

CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "Z"

PILE NOTES

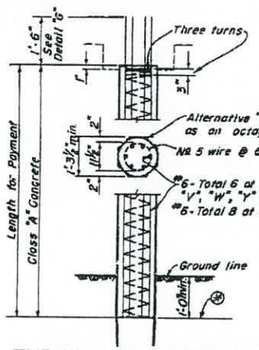
For Alternatives "W" and "X" the piles may be driven full length and cut off without extension or they may be extended as shown at the option of the Contractor.

② When piles are extended the elevation of cut-off shall be located 1'-0" minimum below ground line, unless shown otherwise on the plans.

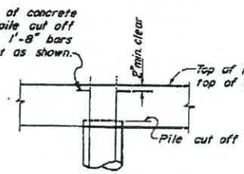
Chico to Bog Springs
III-But-47-B
Contract 57-37237-F
S-7541(1)

Note "F"
In Alternatives "V" and "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 12', whichever is the greater.
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.

TYPICAL PILE EXTENSION
Typical except for Alternative "U"



When depth of concrete above the pile cut off is less than 1'-8" bars shall be bent as shown.



DETAIL "G"

PRESTRESSING NOTE

All steel strand to be prestressed shall be high tensile, cold-drawn stress relieved wire strand of a diameter not to exceed 1/2", having an ultimate tensile strength of not less than 250,000 p.s.i. and an elongation at rupture of not less than 3% in 10".

AS BUILT PLANS
CONTRACT 57-37237-F
M & R Sec. 8 NOVEMBER 1957.
R.E.

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer O. Bender
Chief Designer

DESIGN	By O. Bender	Checked	
DETAILS	By O. Bender	Checked	
QUANTITIES	By	Checked O. Bender	
SPECIFICATIONS	By	Checked	

Approval Recommended by: Bridge Engineer — Civil and Structural Engr. License No. 7815

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DEAD HORSE SLOUGH BRIDGE

PILE DETAILS

Except as noted SCALE 1/2" = 1'-0" | BRIDGE 12-135 | 43-10-17 FILE | DRAWING C-5205-A

PREL. DRAWING No. P-5205 | 3 | 4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE May 11, 1971 SIGNATURE [signature] TITLE HAO I

BRIDGE DEPARTMENT

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FEDERAL PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CAL.	S-7621(1)		34	39

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL PROJECT MILES
III	Bu.	32	B	5	5

February 25, 1957

B.M. "54"
Conc. R/W mon. @ Sta. "B" 138+88.89 Lt.
Elev. 235.261

Chico ← Initial & Constr. → Rte 29

"B" Line

"B" Line & Channel

Diversion

B-1 B-2 B-3

El. 239.118 El. 239.190 El. 239.203 El. 239.263 El. 239.258 El. 239.307 El. 239.928 El. 239.856 El. 239.390

"B" 142+32 "B" 142+76 "B" 143+21

Profile initial & constr.

El. 235.8 El. 236.2 El. 234.7

Existing Channel Profile

GWS

Min. Penetr. El. 217.0

Min. Penetr. El. 214.4

Min. Penetr. El. 215.1

Min. Penetr. = El. 217.3

Adv. Penetr. El. 207.7

Max. Penetr. El. 208.0

Max. Penetr. El. 197.5

Max. Penetr. El. 192.8

Max. Penetr. = El. 201.0

300/0.2

142 143

BM B-139

Spike in crack of NE conc. Wing Wall of Bridge on Forest Ave. 200'± lt "B" 138+60
Elev. 235.58

AS BUILT PLANS

Chico to Hog Springs
111-But-47-B
Contract 57-3TC37-F
5-701(1)

CONTRACT 57-3TC37-F
M. E. Ryan Sr. 8 NOV 1957.
R.E.

FIELD STUDY by W. Kinney 10-56
DRAWN by J. Derr 10-56
CHECKED by C. Hoag 12-56
Approved Recommended by Wallace Simmons
Asst. Bridge Engineer
Wm. E. Ryan
Bridge Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

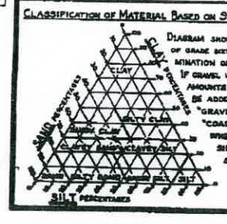


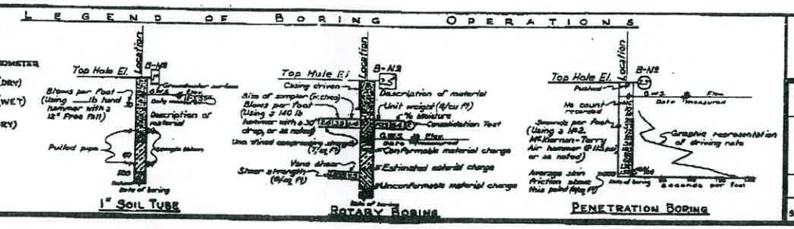
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any borings
- Penetrometer
- 2½" Cone Penetrometer
- Sampler. Boring (Dry)
- Rotary Boring (Wet)
- Auger Boring (Dry)
- Jet Boring
- Core Boring
- Test Pit



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.
Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DEAD HORSE SLOUGH

LOG OF TEST BORINGS

SCALE 1"=10' | BRIDGE 12-135 | FILE E-71 | DRAWING C-5205-5

34

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE May 11, 1971 SIGNATURE [signature] TITLE HAO I