U-003-2(1)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		130	149

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But	32	G	1	10

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED July 22, 1963

Rte 99
PM 32.1

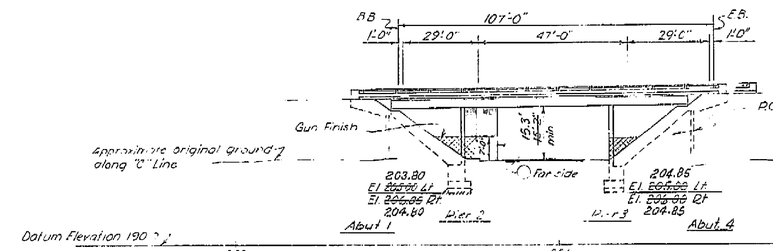
For Finish Grades see "Grid Grade" sheet

600' V.C. +2.05% — 800' V.C. — -0.18%

Sta 550+10.00 El. 230.19

Sta 558+10.00 El. 237.83

PROFILE GRADE
No Scale



ELEVATION
Scale: 1" = 20'

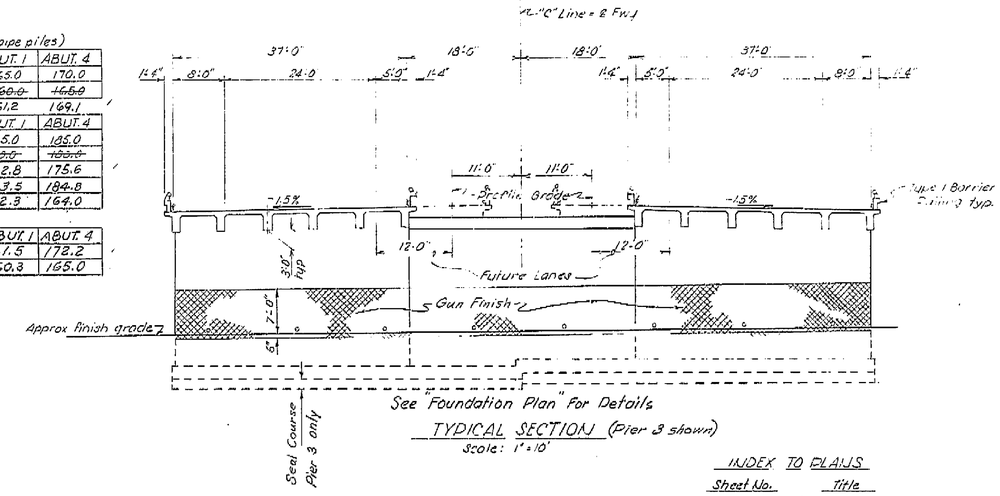
P.C.C. Piles - Class II (excluding pipe piles)

LEFT STRUCTURE	ABUT. 1	ABUT. 4
Specified Pile Tip Elev.	165.0	170.0
~~Estimated~~ Pile Tip Elev.	~~160.0~~	~~165.0~~
Average	161.2	169.1
RIGHT STRUCTURE	ABUT. 1	ABUT. 4
Specified Pile Tip Elev.	165.0	165.0
~~Estimated~~ Pile Tip Elev.	~~160.0~~	~~160.0~~
Average	162.8	175.6
Minimum Pile Tip Elev.	163.5	184.8
Maximum Pile Tip Elev.	162.3	164.0

LEFT STRUCTURE	ABUT. 1	ABUT. 4
Minimum Pile Tip Elev.	161.5	172.2
Maximum Pile Tip Elev.	160.3	165.0

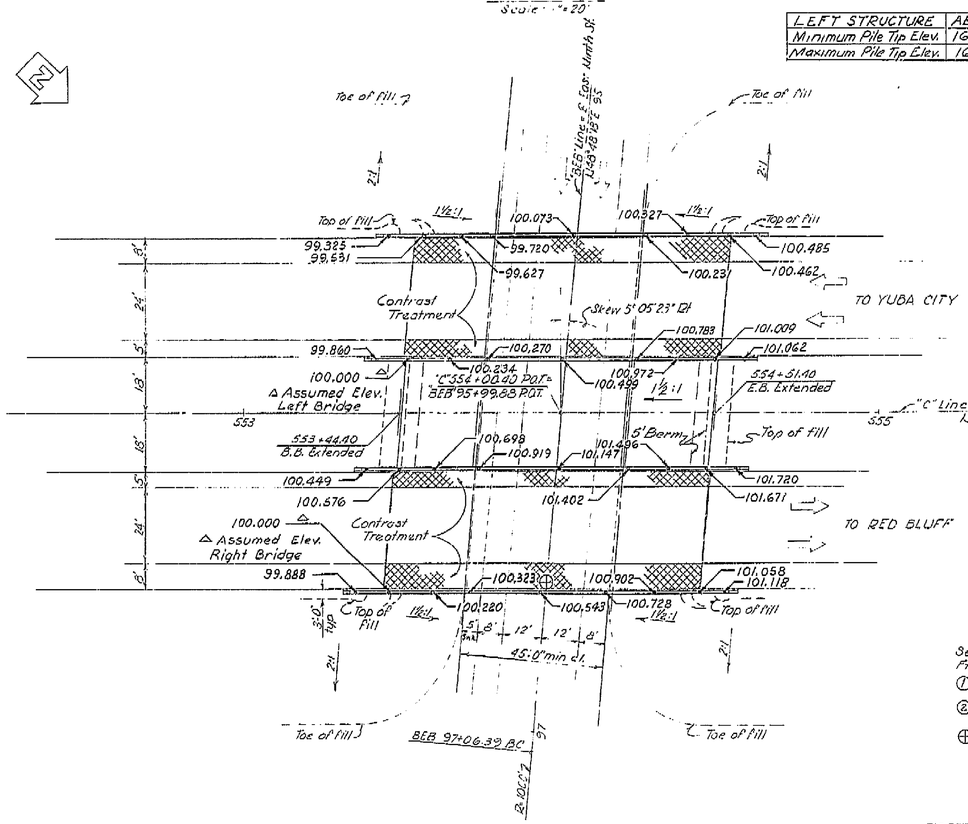
APPROXIMATE QUANTITIES
*FINAL QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	90 C.Y.
STRUCTURE EXCAVATION (TYPE "A")	870 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	500 C.Y.
*PERVIOUS BACKFILL MATERIAL	16 C.Y.
FURNISHING CONCRETE PILING (CLASS II)	1,250 L.F.
DRIVING CONCRETE PILES	28 EA.
*CLASS "A" CONCRETE (BRIDGE)	790 C.Y.
6" RUBBER WATERSTOPS	12 L.F.
CLASS "A" CONCRETE (FOOTING BLOCK)	87 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	165,000 LBS.
CONTRAST TREATMENT	320 S.Y.
4" ASBESTOS-CEMENT DRAIN PIPE	40 L.F.
BARRIER RAILING (TYPE 1)	524 L.F.



See "Foundation Plan" for Details

TYPICAL SECTION (Pier 3 shown)
Scale: 1" = 10'



PLAN
Scale: 1" = 20'

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Grid Grade
3	Site Plan
4	Foundation Plan
5	Abutment & Curtain Wall Details
6	Abutment & Pier Layout - Pier Details
7	Typical Section
8	Girder Layout
9	Girder Reinforcement
10	Log of Test Borings

Sheet Nos. with A suffix are grouped together as "Std. Bridge Details" and apply to several Structures. For these sheets see "Little Chico Creek Bridge" Bridge No. 12-148 R/L.

1A	Standard Details No. 1 (T-Beam)
2A	Standard Details No. 2 (T-Beam)
5A	Barrier Railing Sheet 1
6A	Barrier Railing Sheet 2
8A	Concrete Pile Details

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

THIS SET OF PLANS WAS REVISED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-20-65 AS SUBMITTED BY RESIDENT ENGINEER Mellon
TRACINGS CORRECTED BY: RFL DATE: 11-10-65

See Foundation Plan for allowable Ftg. pressures & Pile Loading.
① Point Bridge Number & Date
② Name of Structure
⊕ Denotes point of minimum vertical clearance.

FOR GENERAL NOTES SEE Standard Details No. 2 sheet

LIVE LOADING H20-S16-44 AND ALTERNATIVE

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 6

Section Supervisor: H. L. Pearce
Project Designer: W. J. Bechtel

DESIGN	By	Checked	
DETAILS	By	Checked	
LAYOUT	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs. Completed	

Approval Recommended by: Bridge Engineer — Civil Engineer, License No. 5585

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

03-047744

ROUTE 99/32 SEPARATION (SOUTH)

LOCATED AT THE SOUTH CITY LIMIT OF CHICO IN BUTTE COUNTY

GENERAL PLAN

SCALE AS SHOWN | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-1

Disregard prints bearing earlier revision dates
63-037104047-4

PRELIMINARY DRAWING No.	REVISION DATES					
P-12149-1	11/6/62	8/6/61	12/6/62	3/4/63	2/26	

130

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 2-12-77 SIGNATURE [illegible] TITLE Sr. Engr.

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			131	149

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
111	BUT				

REVIEWED BY CIVIL ENGINEER—LICENSE 25345

DATE APPROVED July 22, 1963

Note:
These elevations do not include camber.

No "As Built" changes
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-65, AS SUBMITTED BY RESIDENT ENGINEER MOLLOY
TRACINGS CORRECTED BY: REL DATE: 11-10-65

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 6
Project Designer: J. J. Beckert
Chief Designer: H. L. Payne

DESIGN	By	Checked	7-61
DETAILS	By Yamagiwa 5-61	Checked	7-61
QUANTITIES	By J. Chinn 11-61	Checked	11-61
SPECIFICATIONS	By	Plans and Office Engineer	
Approval Recommended by	Engineer of Design	Civil Engr. License No.	16789

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99/32 SEPARATION (SOUTH)

GRID GRADE

SCALE: None | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-2

PREL. DRAWING No. P-12149-2 | 5/1/61 | 8/1/61 | 1/2/62 | 12/2/62

131

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 2-12-77 SIGNATURE [illegible] TITLE S/R [illegible]

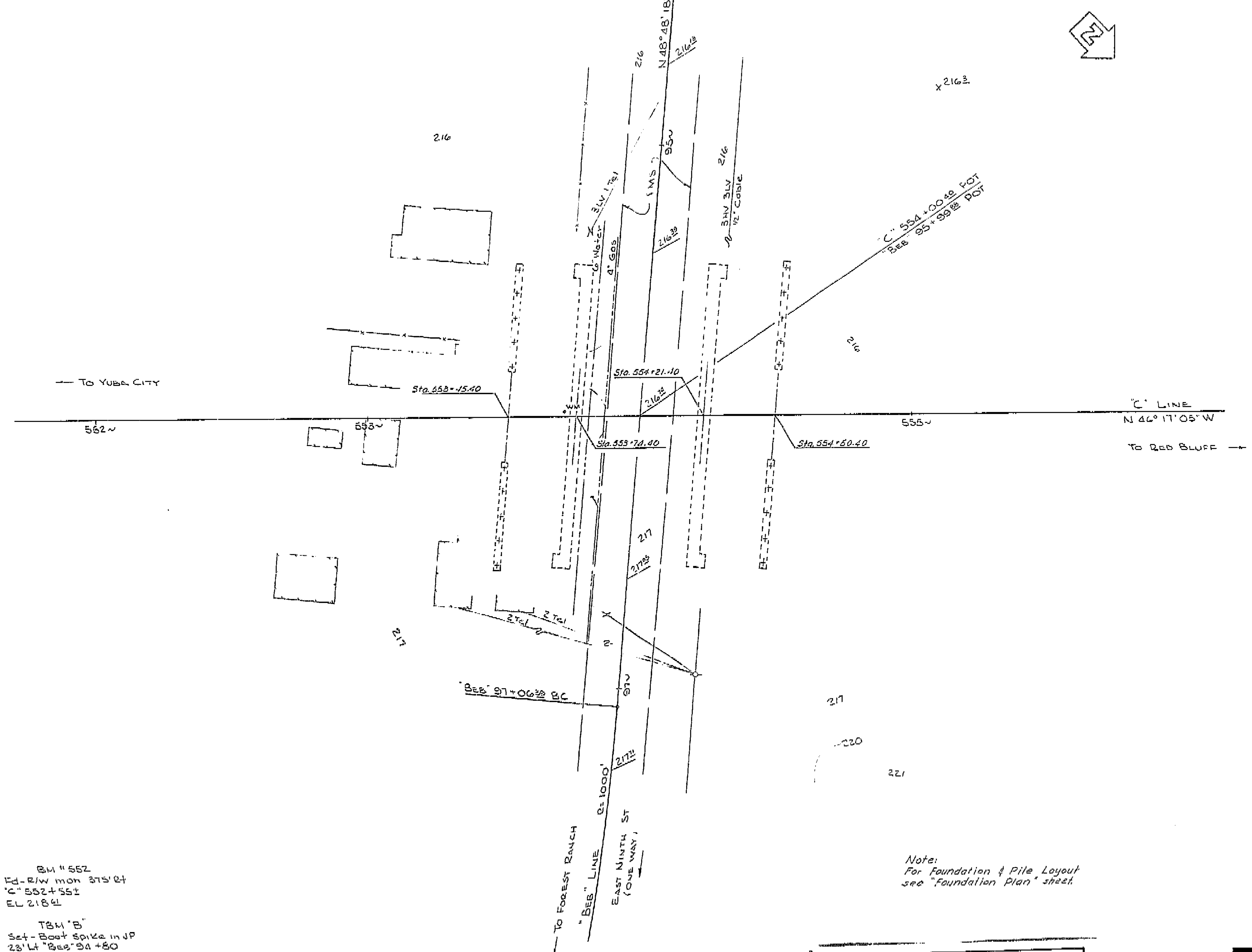
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		132	149

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	BUT	~~3~~	~~C~~	3	10

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5565

DATE APPROVED July 22, 1963



BM "552
Fd-R/W mon 375' Rt
"C" 552+55±
EL 218.61

TBM "B"
Set-Boat spike in JP
23' Lt "BEB" 94+80
EL 217.91

Note:
For Foundation & Pile Layout see "Foundation Plan" sheet.

No "As Built" changes
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-65, AS SUBMITTED BY RESIDENT ENGINEER Mellon
TRACINGS CORRECTED BY REL DATE 11-10-65

LEVEL DATUM: USC&GS
FOR ALINEMENT TIES SEE PR 7149-2
CONTOURS AS OF 8-60
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JRA DATE 8-60
DRAWN BY JS DATE 8-60
TRACED BY JS DATE 8-17-60

132

AS BUILT PLANS
Contract No. 03-047744
Date Completed ____
Document No. 30001438

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor H. L. Payne

DESIGN	By McKee	
	Checked [illegible]	9-61
DETAILS	By F. H. Eaker	9-61
	Checked [illegible]	9-61
QUANTITIES	By S. Okimura	11-61
	Checked Gamblin	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99/32 (~~3/47~~) SEPARATION (SOUTH)

SITE PLAN

SCALE 1" = 20' | BRIDGE 12-149R/L | FILE E-12 | DRAWING C-12149-3

PREL. DRAWING NO. P-12149-4 | 3/3/61 | 9/6/61 | 1/X/62 | 12/X/62 | 2/13/63

PR 7148-539

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 2-12-77 SIGNATURE [signature] TITLE SR RMO

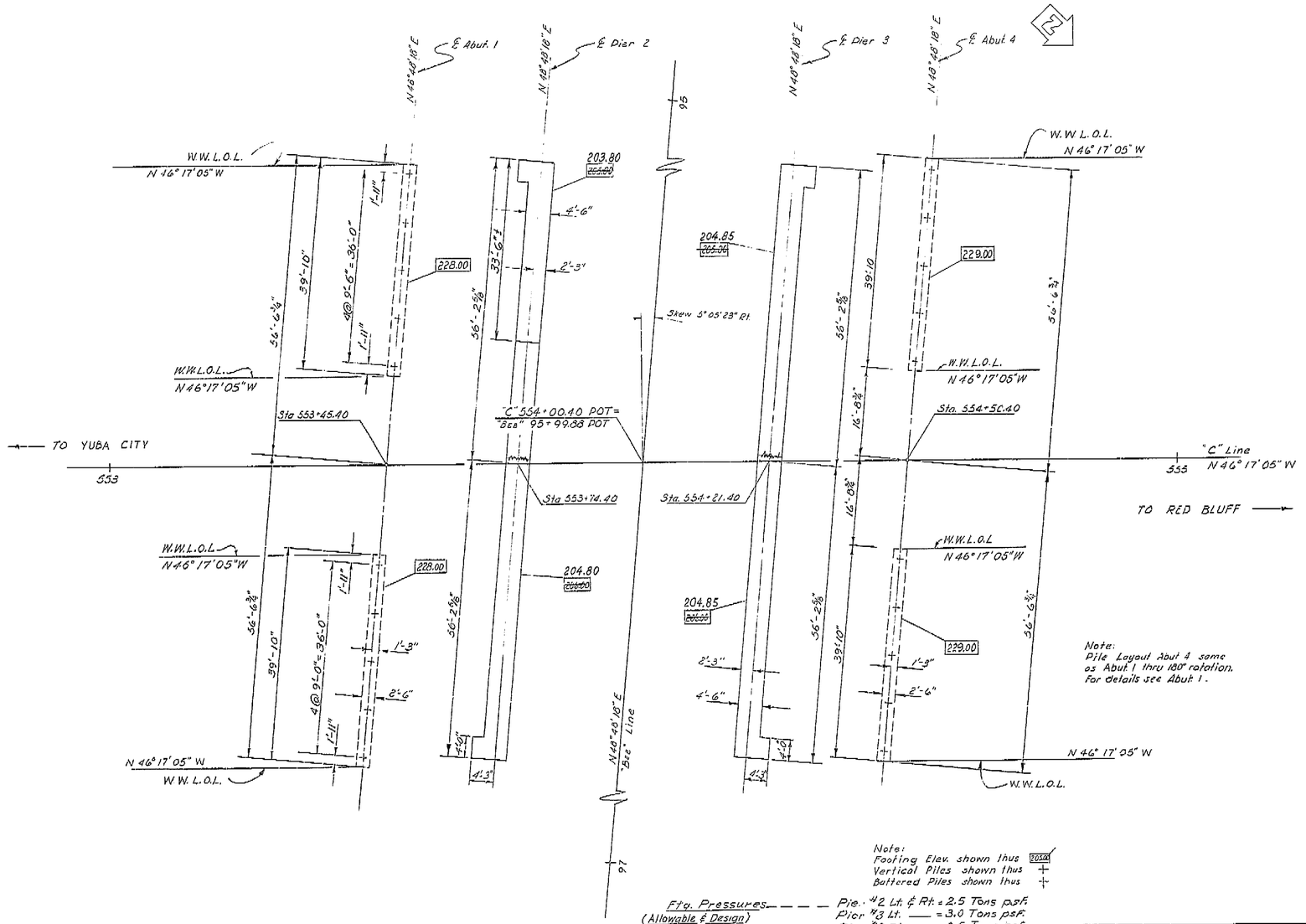
ClibPDF - www.fastio.com

FED. ROAD DIV. No	STATE	F. A. PROJECT No	SHEET No.	TOTAL SHEETS
7	CALIF.		133	149

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	But	99			

BRIDGE ENGINEER — CIVIL ENGINEER — LAYOUT ENGR.

DATE APPROVED July 22, 1963



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 7-8-65, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: RFL DATE: 11-10-65

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT
DESIGN SECTION 6

Section Supervisor H. L. Bopp

DESIGN	By	
	Checked	4-61
DETAILS	By	4-61
	Checked	4-61
QUANTITIES	By	11-61
	Checked	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99/32 SEPARATION (SOUTH)

FOUNDATION PLAN

SCALE 1" = 10'-0" | BRIDGE 12-149 3/4 | FILE | DRAWING C-12149-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-12149-3

133

40

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 2-12-77 SIGNATURE TITLE

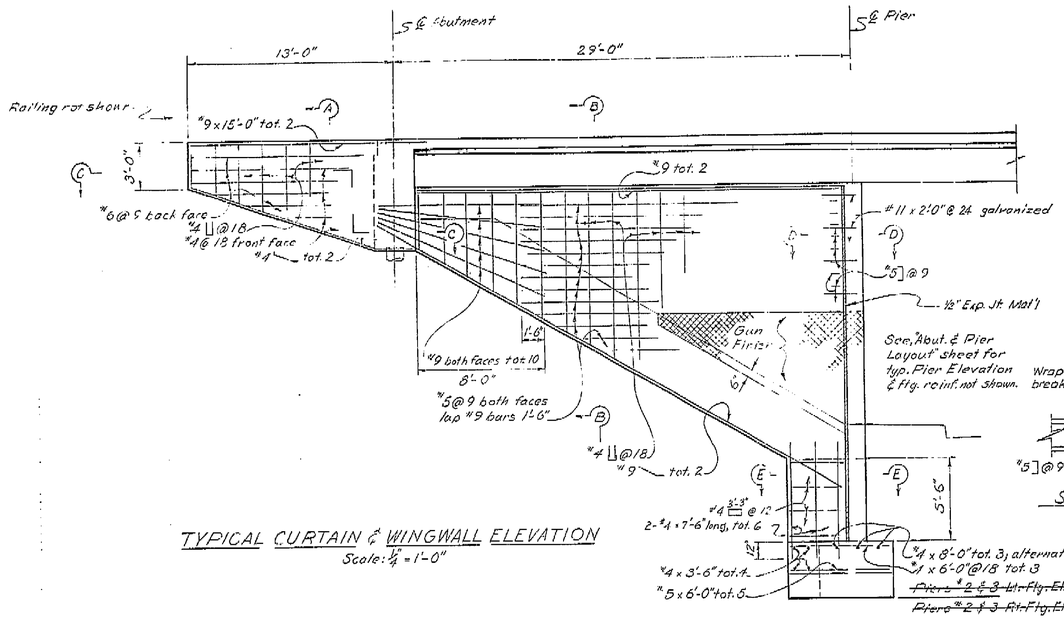
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		134	149

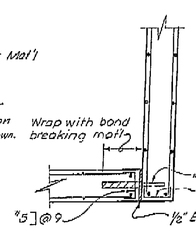
Dist.	County	Route	Section	Sheet No.	Total Sheets
III	But	—	—	10	10

Signature Engineer — Civil Engineer Licensed State

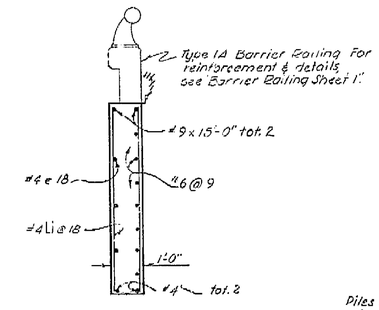
Date Approved July 22, 1963



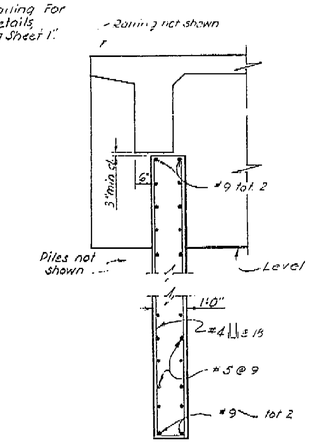
TYPICAL CURTAIN & WINGWALL ELEVATION
Scale: 1/4" = 1'-0"



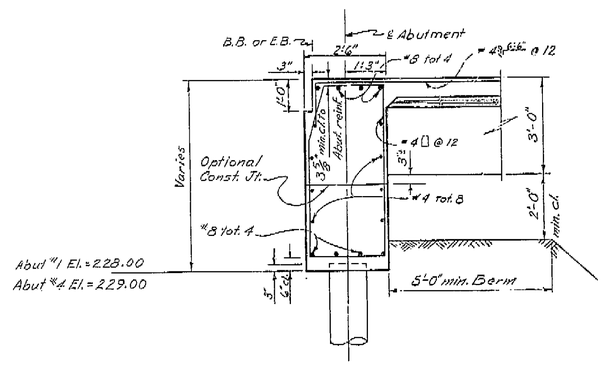
SECTION D-D
Scale: 1/2" = 1'-0"



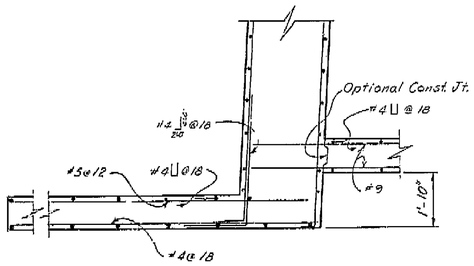
SECTION A-A
Scale: 1/2" = 1'-0"



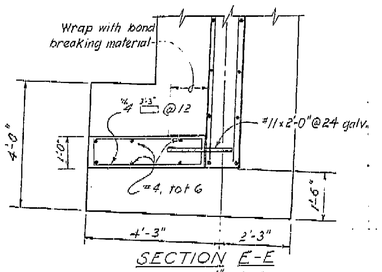
SECTION B-B
Scale: 1/2" = 1'-0"



TYPICAL ABUTMENT SECTION
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"



SECTION E-E
Scale: 1/2" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1-26-65, AS SUBMITTED BY RESIDENT ENGINEER Mellon
TRACINGS CORRECTED BY: RFL DATE: 11-10-65

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor H. Y. Payne

DESIGN	By S. Mirsa	
	Checked J. Stephenson	7-61
DETAILS	By L. Chang	4-61
	Checked J. Stephenson	7-61
QUANTITIES	By R. Chinnes	11-61
	Checked Hamilton	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99/32
ROUTE ~~3/47~~ SEPARATION (SOUTH)

ABUTMENT & CURTAIN WALL DETAILS

SCALE As shown | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-5

Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-12149-7 | 2/61 | 2/61 | 2/61 | 2/61 | 2/13/63

134

41

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 2-12-72 SIGNATURE [illegible] TITLE [illegible]

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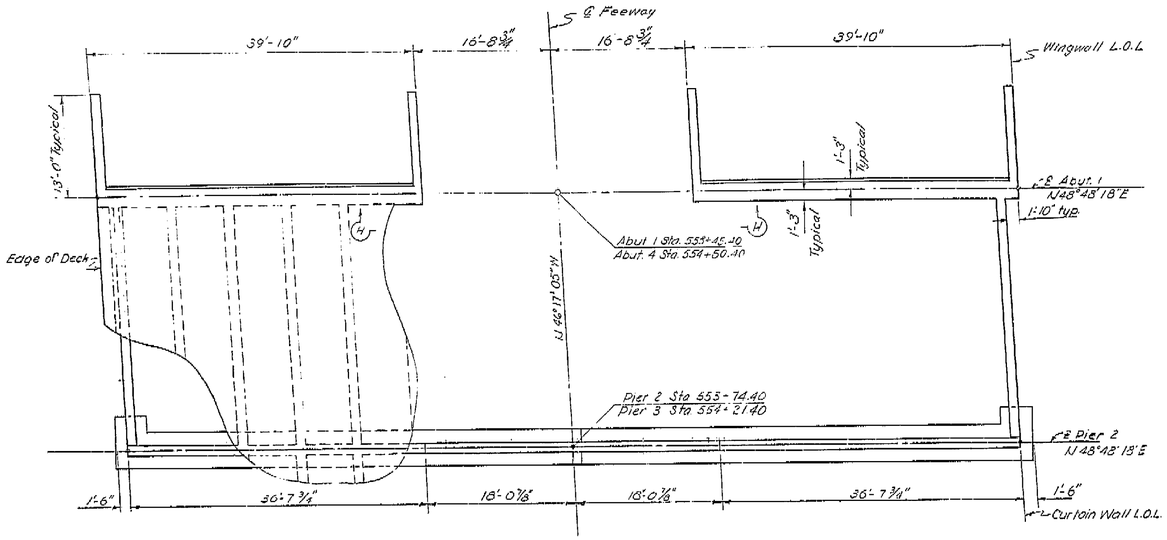
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		135	149

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
111	But	99/32		6	10

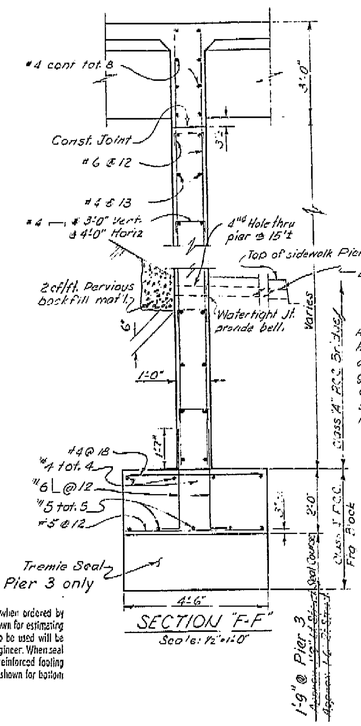
BRIDGE ENGINEER — CIVIL ENGINEER — LANDS ENG.

DATE APPROVED July 22, 1963

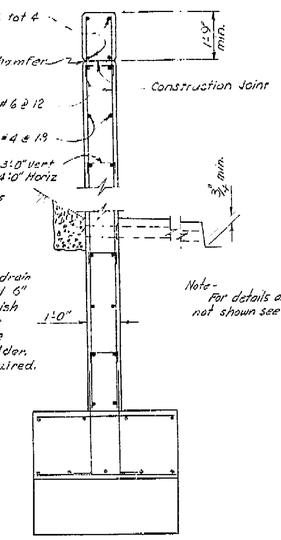


PLAN
Scale: 1/8"=1'-0"

Note:
Abut. 1 & Pier 2 shown. Pier 3 & Abut. 4 similar by 180° rotation, except as shown.
For Abut. Pile Layout see "Foundation Plan" sheet

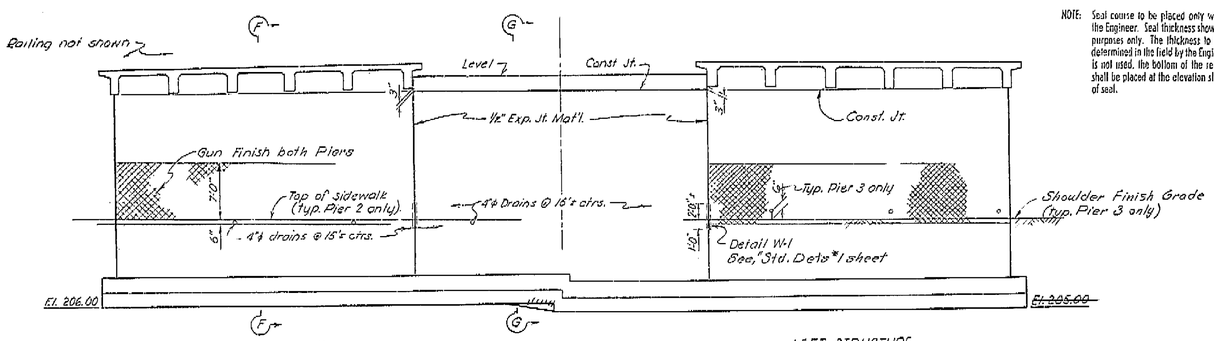


SECTION "F-F"
Scale: 1/2"=1'-0"

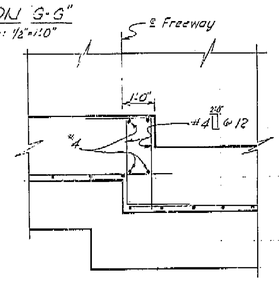


SECTION "G-G"
Scale: 1/2"=1'-0"

NOTE: Seal course to be placed only when ordered by the Engineer. Seal thickness shown for estimating purposes only. The thickness to be used will be determined in the field by the Engineer. When seal is not used, the bottom of the reinforced footing shall be placed at the elevation shown for bottom of seal.



Back on Line
ELEVATION - PIER
Scale: 1/8"=1'-0"



STEP DETAIL
Scale: 1/2"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-65, AS SUBMITTED BY RESIDENT ENGINEER Mellon
TRACINGS CORRECTED BY: R.F.L. DATED 11-10-65

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT DESIGN SECTION 6		
Section Supervisor	H. J. Pierson	
DESIGN	By	
	Checked	
DETAILS	By	6-61
	Checked	
QUANTITIES	By	11-61
	Checked	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99/32
ROUTE 99/32 SEPARATION (SOUTH)

ABUTMENT & PIER LAYOUT - PIER DETAILS

SCALE As shown | BRIDGE 12-149 R/L | FILE | DRAWING G-12149-8

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-12149-8

135

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.

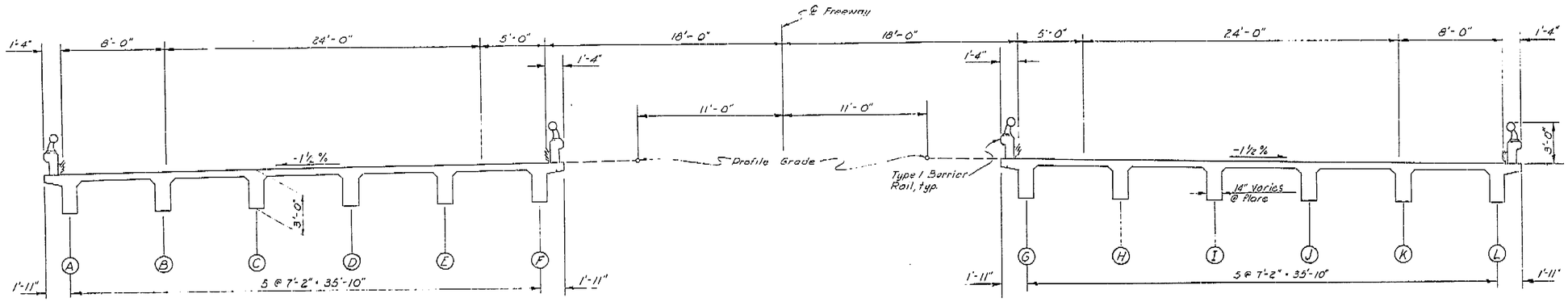
DATE 8-12-77 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

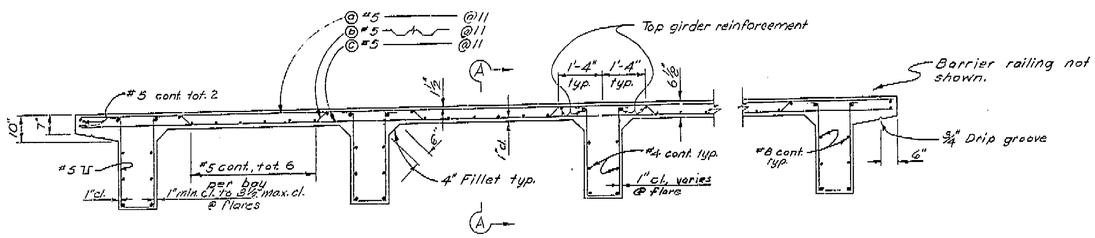
FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		136	149

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	But	99	C	3-of-10	10

Date Approved July 22, 1963

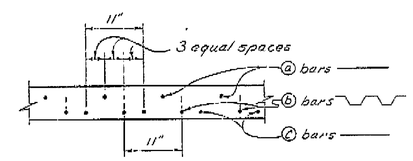


TYPICAL SECTION
¼" = 1'-0"



PART SECTION
½" = 1'-0"

Note:
For girder reinf. not shown see "Girder Reinf." sheet.



SECTION A-A
No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-65, AS SUBMITTED BY RESIDENT ENGINEER Mellon
TRACINGS CORRECTED BY: PFL DATED 11-10-65

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor H. L. Pope

DESIGN	By L. Mc Lee	
	Checked	8-61
DETAILS	By E. H. Tackas	3-61
	Checked	4-61
QUANTITIES	By R. Chimiva	11-61
	Checked Hamilton	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99/32
ROUTE ~~[illegible]~~ SEPARATION (SOUTH)

TYPICAL SECTION

SCALE As shown | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-7

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-12149-5 | 8/4 | 9/4 | 10/22 | 11/18 | 12/22 | 2/13

4/3

136

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 2-12-77 SIGNATURE [illegible] TITLE Sr. Engr.

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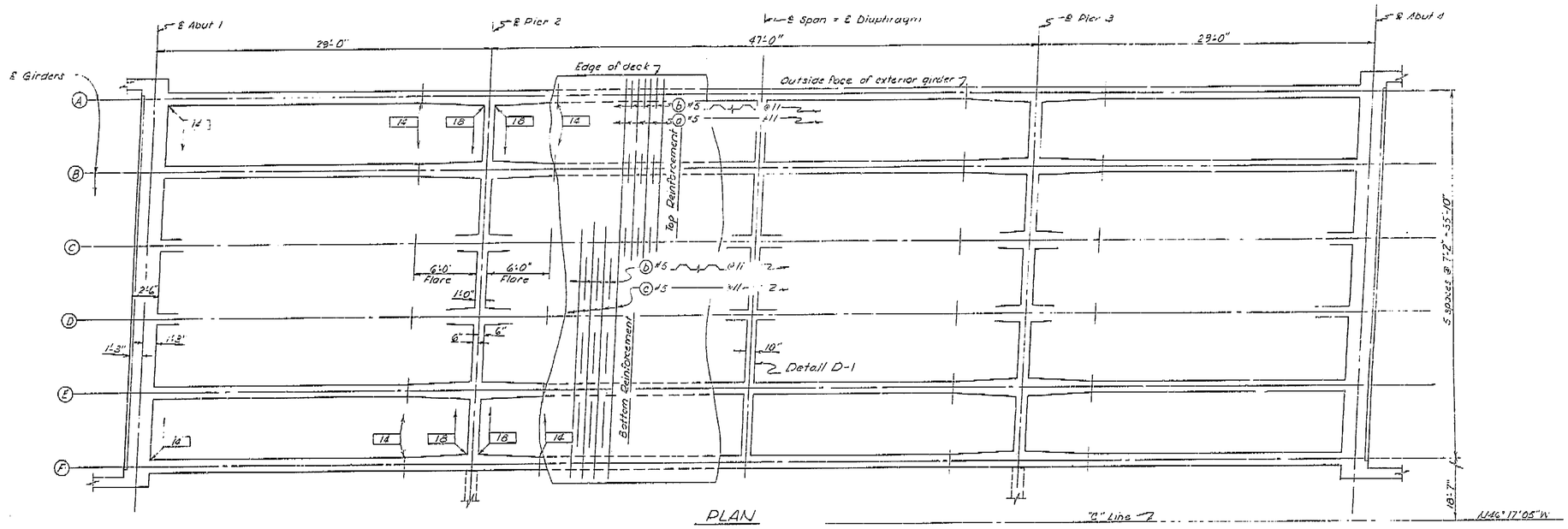
FED. ROAD DIV. NO	STATE	F. A. PROJECT No	SHEET No.	TOTAL SHEETS
7	CALIF.		137	149

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	But				110

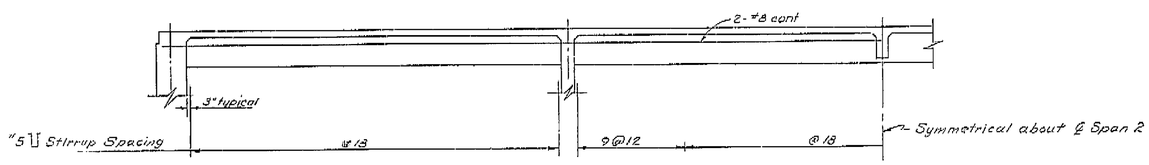
Board Engineer — Civil Engineer—Bridge Dept.

Date Approved July 22, 1963

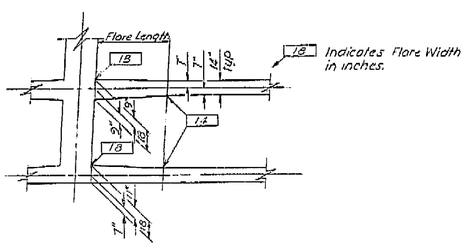


PLAN

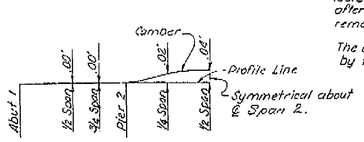
Note: Left Structure shown, Right Structure similar thru 180° rotation, except as noted.



LONGITUDINAL SECTION



FLARE DIAGRAM



CAMBER DIAGRAM

Scale: None

Total girder deflection due to dead loads.

Note: The total deflection will be reached about four years after falsework removal. For values at time of falsework removal, divide those shown by four.

The amount of camber for construction will be determined by the Engineer.

No "As Built" changes

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-65, AS SUBMITTED BY RESIDENT ENGINEER Mellon

TRACINGS CORRECTED BY: RFL DATE: 11-10-65

AS BUILT PLANS
Contract No. 03-041744
Date Completed
Document No. 2000428

BRIDGE DEPARTMENT DESIGN SECTION 6		
Section Supervisor	H. L. Payne	
DESIGN	By	
	Checked	
DETAILS	By	
	Checked	
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99/32

ROUTE ~~347~~ SEPARATION (SOUTH)

GIRDER LAYOUT

Except as noted SCALE 3/16 = 1'-0 | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-8

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-12149-8 | 8/28 | 1/4/62

137

44

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 2-12-77 SIGNATURE [illegible] TITLE [illegible]

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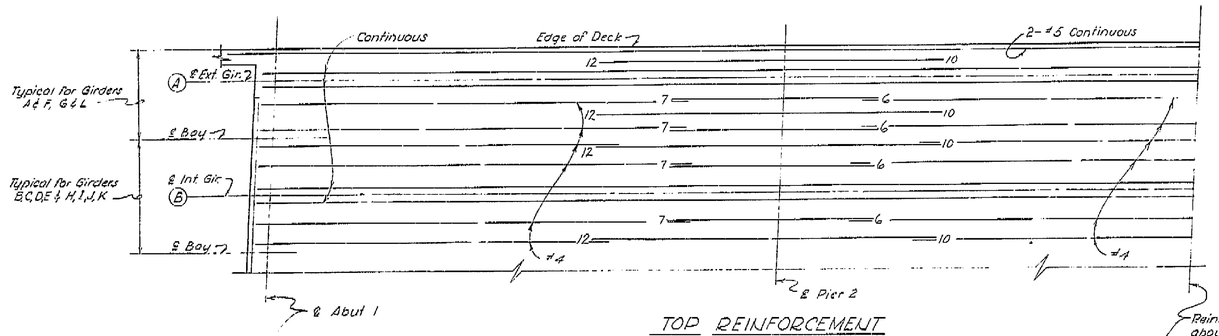
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		138	149

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But				

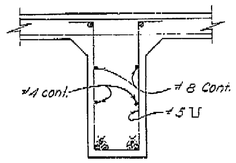
BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 5363

DATE APPROVED July 22, 1963

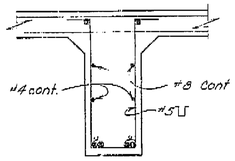


TOP REINFORCEMENT

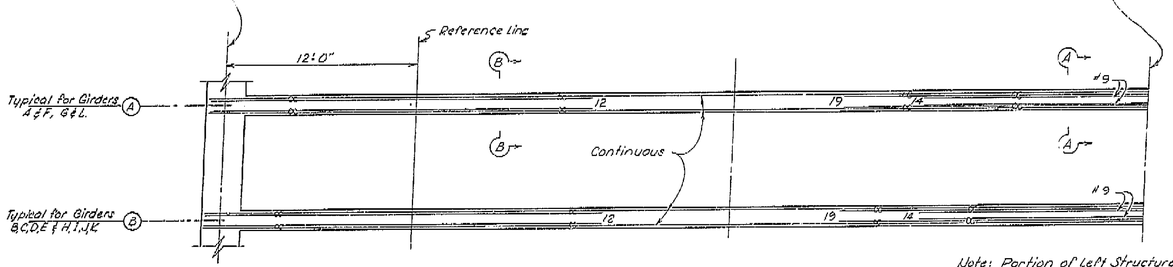
Reinforcement symmetrical about ℄ Span 2



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



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



BOTTOM REINFORCEMENT

Note: Portion of Left Structure shown. Right structure similar.

No "As Built" changes
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-2-63 AS SUBMITTED BY RESIDENT ENGINEER Marion
TRACINGS CORRECTED BY: RFL DATE: 11-10-65

Note:
All reinforcement #11 unless otherwise noted.
Numbers at ends of bars indicate distance in feet from ℄ Pier for top reinforcement, & ℄ Span or reference line for bottom reinforcement.
indicates bundled bars.
Splicing of bars in bundles shall be done by butt welding or with 35 dia. laps.

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 30001438

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor

DESIGN	By	
	Checked	8-61
DETAILS	By	4-61
	Checked	8-61
QUANTITIES	By	11-61
	Checked	11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99/32
ROUTE ~~3/42~~ SEPARATION (SOUTH)

GIRDER REINFORCEMENT

Except as shown
SCALE None | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-9

Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-12149-9 | 8/61 | 8/61 | 11/61

138

145

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DATE 2-12-72 SIGNATURE TITLE SR RMC

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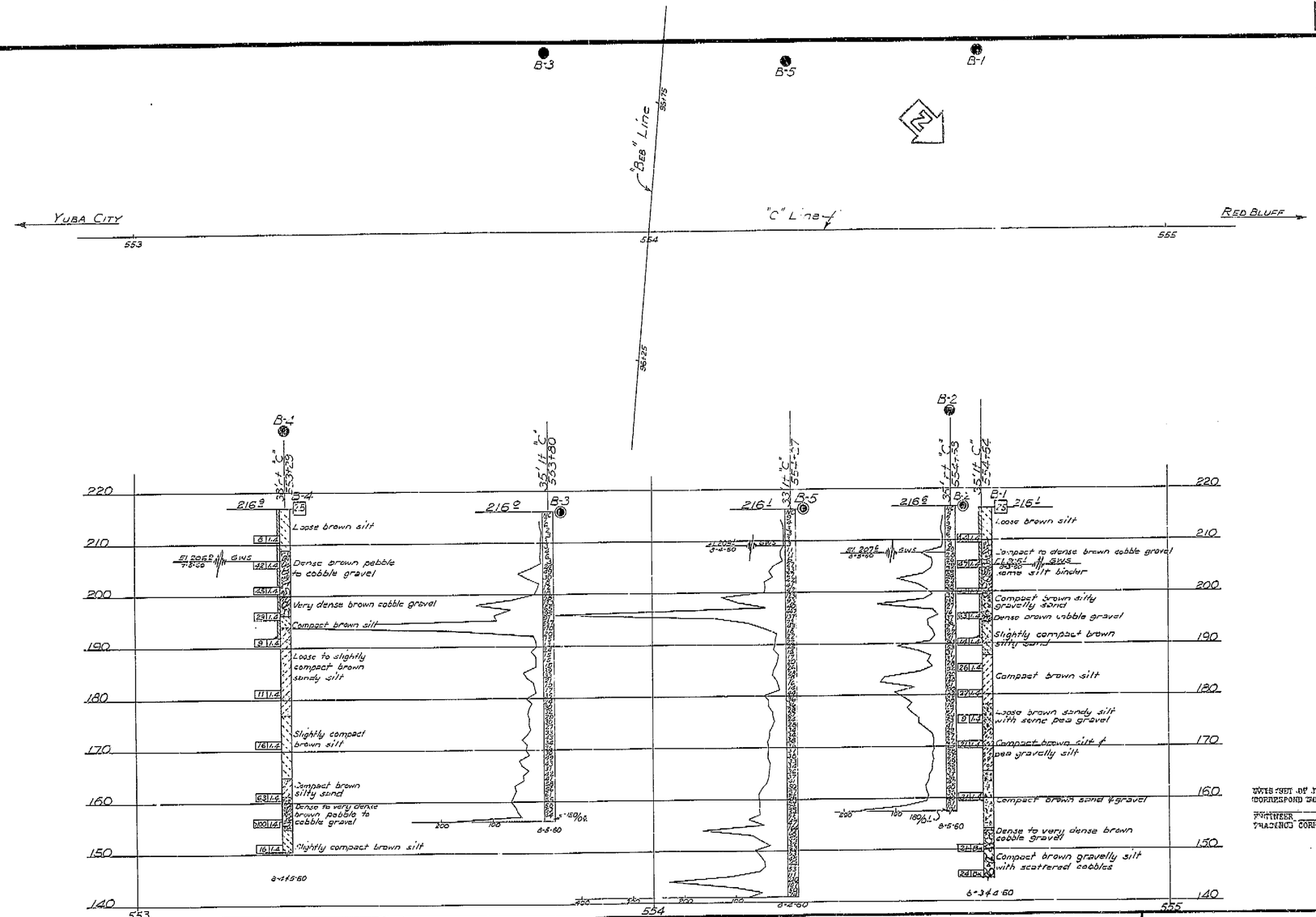
FED. ROAD DIV NO	STATE	PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			139	140

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	Butte	99			

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5985

DATE APPROVED July 22, 1963

BRIDGE DEPARTMENT



BM 552

R/W Mon. @ SE corner E 9th St & Fir St. 375'± rt "C" 552+55± marked "BM no. 10" Elev. 216.608

AS BUILT PLANS
Contract No. 03-047744
Date Completed
Document No. 20004438

NOTE: THIS SHEET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED ——— AS SUBMITTED BY RESIDENT ENGINEER.
ENGINEER
TRACING CORRECTED BY: DATE:

FIELD STUDY	H. Nelson	8-60
DRAWN	H. Darr	9-60
CHECKED	H. Wilson	9-60

Approved & recommended for publication: Chief, Bridge Department

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

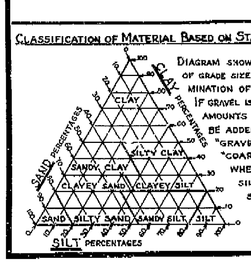


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

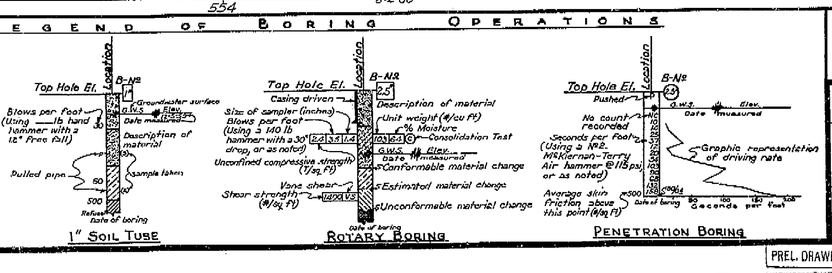
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

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 BORING
- PENETROMETER
- 2¼" CONE PENETROMEYER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTE

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

99/32

ROUTE 99/47 SEPARATION (SOUTH)

LOG OF TEST BORINGS

SCALE 1" = 10'	BRIDGE 12-149 R/L	FILE	DRAWING E 12149-10

PREL. DRAWING NO. P-12149-15 3/4

PR-7148-6 1/6

139

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DATE 3-12-77 SIGNATURE TITLE SR RMC

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	99	Var	13	16

Charles R Hutchinson
REGISTERED CIVIL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHARLES R. HUTCHINSON No. C 54226 Exp. 12-31-07 CIVIL STATE OF CALIFORNIA

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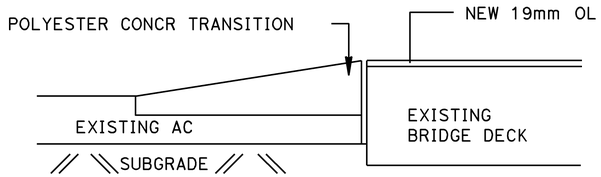


POLYESTER CONRETE TRANSITION DETAIL (NTS)

DRAINAGE DITCH — BR NO 12-0002

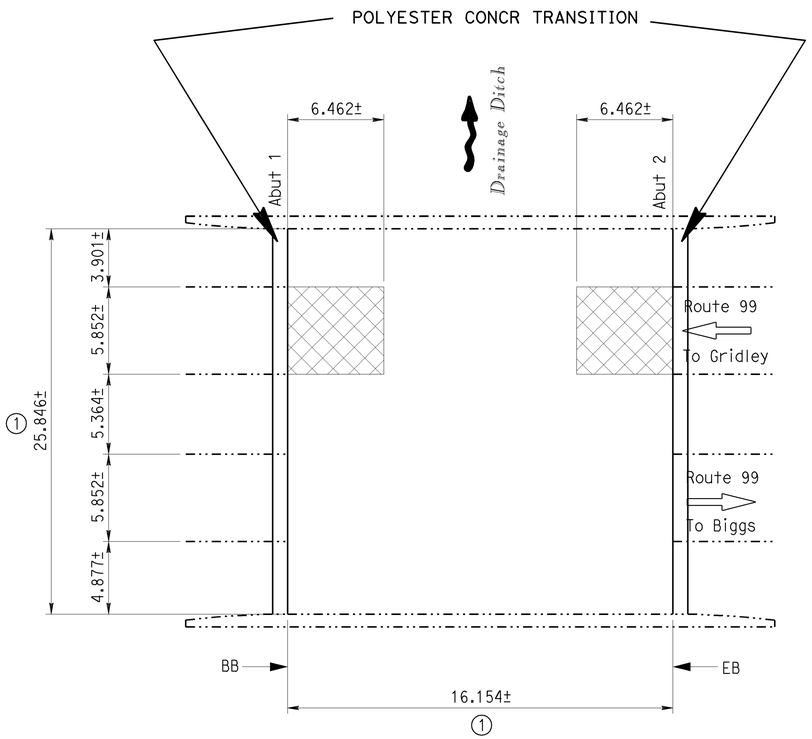
QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	76	m^2
PREPARE CONCRETE BRIDGE DECK SURFACE	418	m^2
FURNISH POLYESTER CONCRETE OVERLAY	10	m^3
PLACE POLYESTER CONCRETE OVERLAY	418	m^2

DRY CREEK — BR NO 12-0196

QUANTITIES

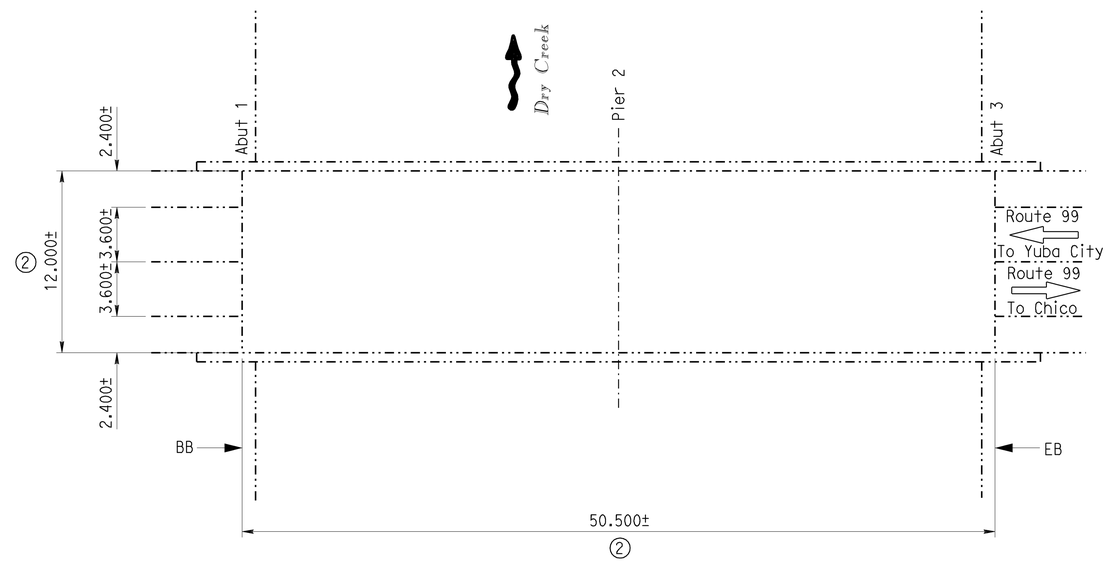
CLEAN BRIDGE DECK	606	m^2
TREAT BRIDGE DECK	606	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	273	L



DRAINAGE DITCH

BR NO. 12-0002, RTE 99, KP 9.83

1:125



DRY CREEK

BR NO. 12-0196, RTE 99, KP 33.15

1:200

NOTES: (APPLY TO ALL SHEETS)

Existing structure

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Standard Plan Sheet Number

Detail Number

NOTES: (APPLIES TO THIS SHEET ONLY)

Indicates limits of remove AC overlay.

1 Indicates limits of place new 19 mm min depth polyester concrete overlay.

2 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate.

STANDARD PLANS DATED JULY 2004

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	MISCELLANEOUS DETAILS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: L.SALHANEY

TRANSFER DATE: 08-01-2007
FIELD CORRECTION DATE: 06-06-2007

CONTRACT NO: 03-2M1904

Michael J. Lee
DESIGN ENGINEER

DESIGN	BY Charles Hutchinson	CHECKED Matt Lee	LAYOUT	BY Charles Hutchinson	CHECKED Matt Lee
DETAILS	BY Seth Evans	CHECKED Matt Lee	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY Charles Hutchinson	CHECKED Matt Lee			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
KILOMETER POST Varies

ROUTE 99 BRIDGES

GENERAL PLAN NO. 1

STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. (5/10/03)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 03601
EA 2M1901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11-15-05 07-18-06 07-19-06

SHEET 1 OF 4

FILE => 032m1901001.dgn

USERNAME => bmillier DATE PLOTTED => 01-AUG-2007 TIME PLOTTED => 09:49

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	99	Var	14	16

Charles R. Hutchinson
REGISTERED CIVIL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHARLES R. HUTCHINSON No. C 54226 Exp. 12-31-07 CIVIL STATE OF CALIFORNIA

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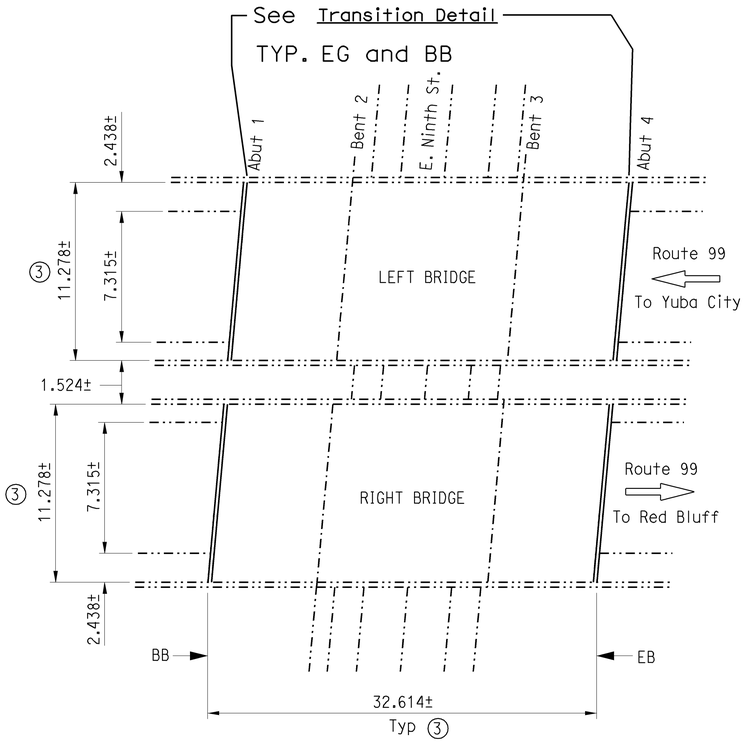
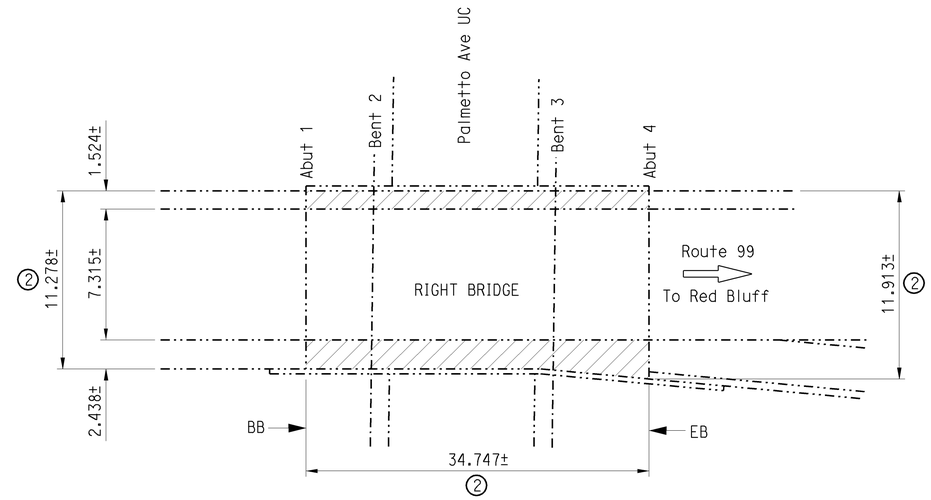


ROUTE 99/32 SEP SOUTH

BR NO. 12-0149R/L, RTE 99, KP R52.09
1:200



PALMETTO AVE UC

BR NO. 12-0152R, RTE 99, KP R53.24
1:250

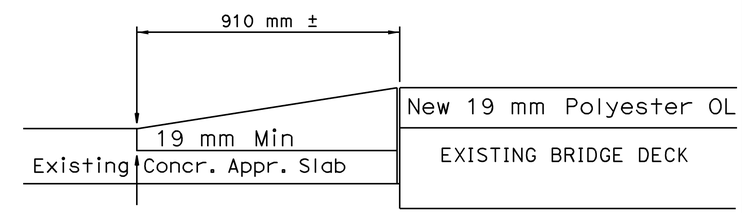
NOTES: (APPLY TO THIS SHEET ONLY)

③ ~~Indicates limits of remove AC overlay (19 mm) and place new 19 mm min depth polyester concrete overlay.~~

② Indicates limits of clean and treat bridge deck with high molecular weight methacrylate

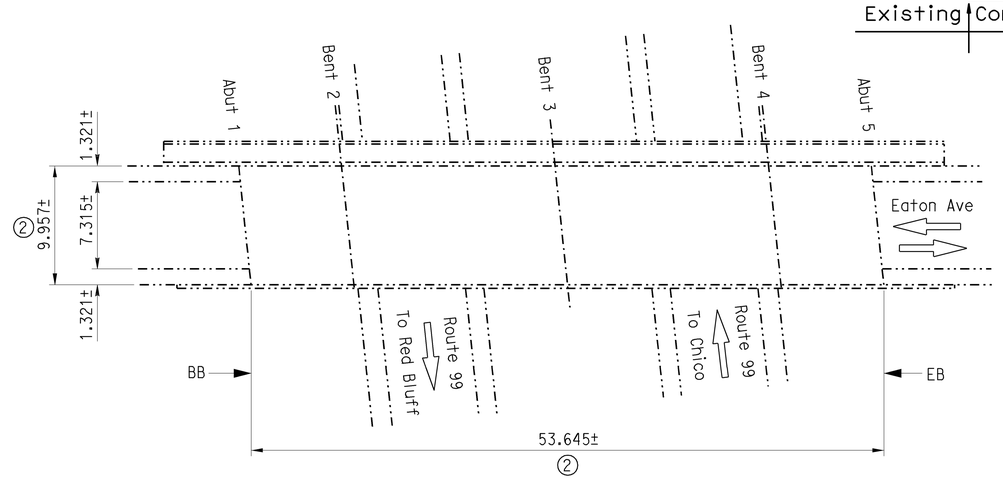
Indicates limits of remove contrast treatment.

③ **Indicates limits of remove rebberized AC chip seal (5mm) and place new 19mm polyester concrete overlay**



TRANSITION DETAIL
EXISTING APPROACH SLAB TO NEW POLYESTER OVERLAY
N.T.S.

ROUTE 99/32 SEPARATION SOUTH QUANTITIES	BR NO 12-0149R/L	
REMOVE ASPHALT CONCRETE SURFACING	736	m^2
PREPARE CONCRETE BRIDGE DECK SURFACE	736	m^2
FURNISH POLYESTER CONCRETE OVERLAY	17	m^3
PLACE POLYESTER CONCRETE OVERLAY	736	m^2
PALMETTO AVENUE UNDERCROSSING QUANTITIES	**BR NO 12-0152R**	
REMOVE CONTRAST TREATMENT	138	m^2
CLEAN BRIDGE DECK	392	m^2
TREAT BRIDGE DECK	392	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	176	L
EATON AVENUE OVERCROSSING QUANTITIES	**BR NO 12-0160**	
CLEAN BRIDGE DECK	534	m^2
TREAT BRIDGE DECK	534	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	240	L



EATON AVE OC

BR NO. 12-0160, RTE 99, KP R58.43
1:250

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: L SALHANEY

TRANSFER DATE: 08-01-2007
FIELD CORRECTION DATE: 06-06-2007

CONTRACT NO: 03-2M904

Michael J. Lee
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Charles Hutchinson	Matt Lee
DETAILS	Seth Evans	Matt Lee
QUANTITIES	Charles Hutchinson	Matt Lee
LAYOUT	Charles Hutchinson	Matt Lee
SPECIFICATIONS	Jennifer Ramirez	PLANS AND SPECS COMPARED: Jennifer Ramirez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. (5/10/01)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 03601
EA 2M1901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11-15-05 07-18-06 07-19-06

SHEET 2 OF 4

FILE => 032m1901002.dgn

USERNAME => bmillter DATE PLOTTED => 01-AUG-2007 TIME PLOTTED => 15:17

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	99	Var	15	16

Charles R. Hutchinson
REGISTERED CIVIL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHARLES R. HUTCHINSON No. C 54226 Exp. 12-31-07 CIVIL STATE OF CALIFORNIA

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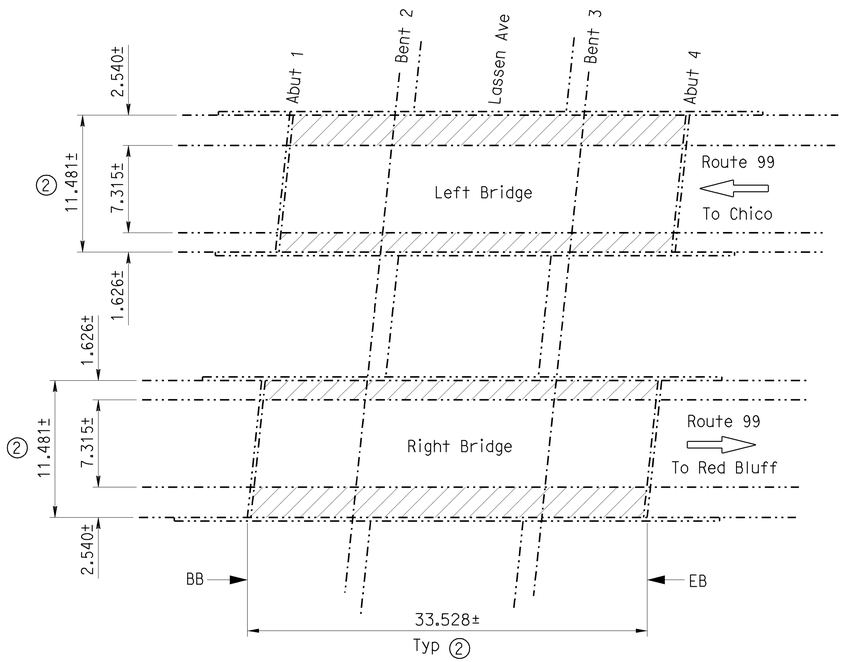


LASSEN AVE UC

BR NO. 12-0159L/R, RTE 99, KP R56.82
1:250

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
12-0151L	Abut 1	BW	15	15.8	No	305
12-0151L	Pier 5/6	BW	30	11.4	~~Yes~~ NO	305
12-0151L	Pier 8/9	BW	30	11.4	~~Yes~~ NO	305
12-0151L	Pier 11/12	BW	30	11.4	~~Yes~~ NO	305
12-0151L	Abut 15	BW	15	11.3	No	305

LEGEND:

BW = Abutment backwall

LASSEN AVENUE UNDERCROSING QUANTITIES	BR NO 12-0159L/R
REMOVE CONTRAST TREATMENT	280 m^2
CLEAN BRIDGE DECK	770 m^2
TREAT BRIDGE DECK	770 m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	345 L

BIDWELL PARK VIADUCT QUANTITIES	BR NO 12-0151L
CLEAN EXPANSION JOINT	62 m
JOINT SEAL (MR 30 MM)	35 m
JOINT SEAL (MR 15 MM)	27 m

NOTES: (APPLY TO THIS SHEET ONLY)

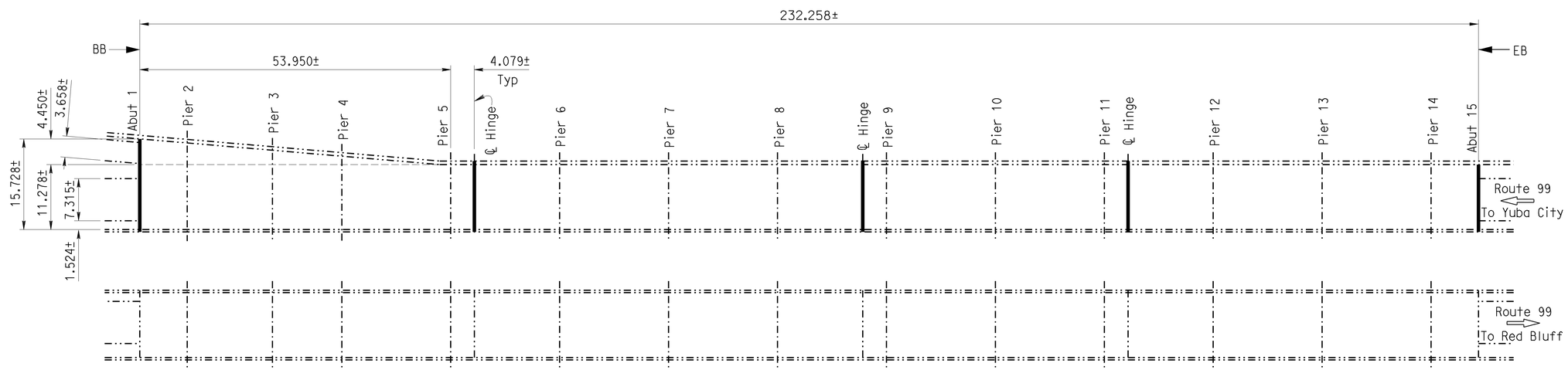
② Indicates limits of clean and treat bridge deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal

Indicates existing limits of remove contrast treatment.

ALL TYPE A,
SILICONE SEALS

NO WATERSTOPS
FOUND



BIDWELL PARK VIADUCT

BR NO. 12-0151L, RTE 99, KP R52.48
1:400

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

AS BUILT CORRECTIONS

CONTRACT NO: 03-2M904
TRANSFER DATE: 08-01-2007
FIELD CORRECTION DATE: 06-06-2007
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: L.SALHANEY

Michael J. Lee
DESIGN ENGINEER

DESIGN	BY Charles Hutchinson	CHECKED Matt Lee	LAYOUT	BY Charles Hutchinson	CHECKED Matt Lee
DETAILS	BY Seth Evans	CHECKED Matt Lee	SPECIFICATIONS	BY Jennifer Ramirez	PLANS AND SPECS COMPARED Jennifer Ramirez
QUANTITIES	BY Charles Hutchinson	CHECKED Matt Lee			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. (5/10/01)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 03601
EA 2M1901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11-15-05 07-18-06 07-19-06

SHEET 3 OF 4

FILE => 032m1901003.dgn

USERNAME => bmillier DATE PLOTTED => 01-AUG-2007 TIME PLOTTED => 15:29

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	99	Var	16	16

Charles R Hutchinson
REGISTERED CIVIL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHARLES R. HUTCHINSON No. C 54226 Exp. 12-31-07 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

The following notes apply to JOINT SEAL TYPE B:

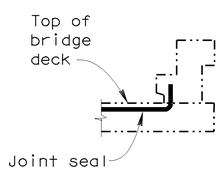
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 20.68 kPa.

4) Bend Type B joint seal 152 mm up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

5) For details not shown see RSP B6-21

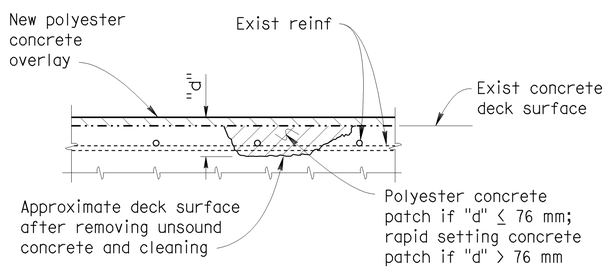


BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.

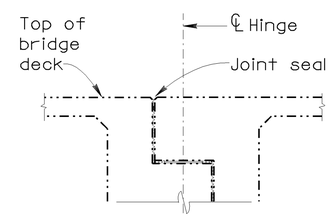
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



DECK REPAIR DETAIL

NO SCALE

Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.



HINGE OR EXPANSION JOINT

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Charles Hutchinson	CHECKED Matt Lee	
DETAILS	BY Seth Evans	CHECKED Matt Lee	
QUANTITIES	BY Charles Hutchinson	CHECKED Matt Lee	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
MISCELLANEOUS DETAILS

STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. (5/10/01)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 03601
EA 2M1901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11-15-05 07-18-06 07-19-06

SHEET 4 OF 4

FILE => 032m1901004.dgn

NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: L.SALHANEY

TRANSFER DATE: 08-01-2007
FIELD CORRECTION DATE: 06-06-2007

CONTRACT NO: 03-2M904

USERNAME => bmitter DATE PLOTTED => 01-AUG-2007 TIME PLOTTED => 15:32

ClibPDF - www.fastio.com

U-003-2(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			140	149

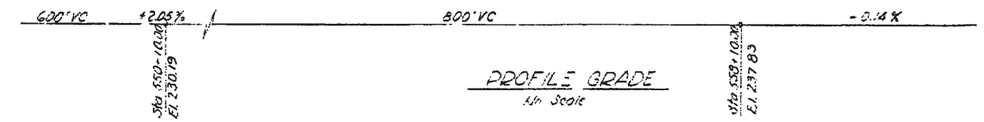
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	But	3	Chc	1	10

DISPLAY STATE ENGINEER LICENSE — CIVIL ENGINEER LICENSE 55613

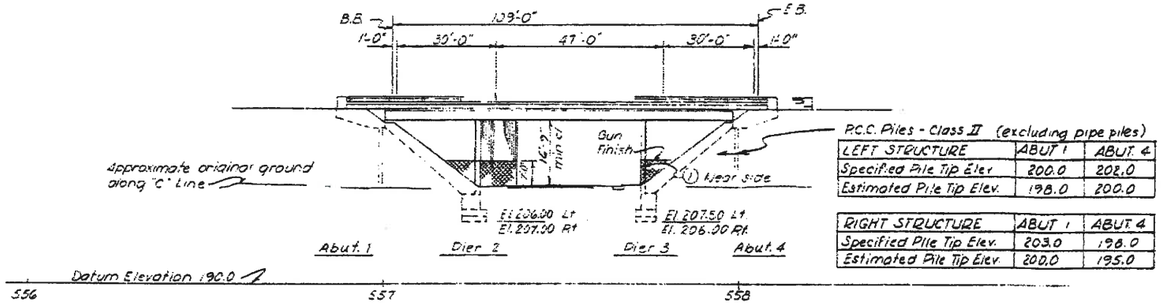
DATE APPROVED July 22, 1963

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 55613

For Finished Grades see 'Grid Grade' sheet



PROFILE GRADE
1/n Scale



P.C.C. Piles - Class II (excluding pipe piles)

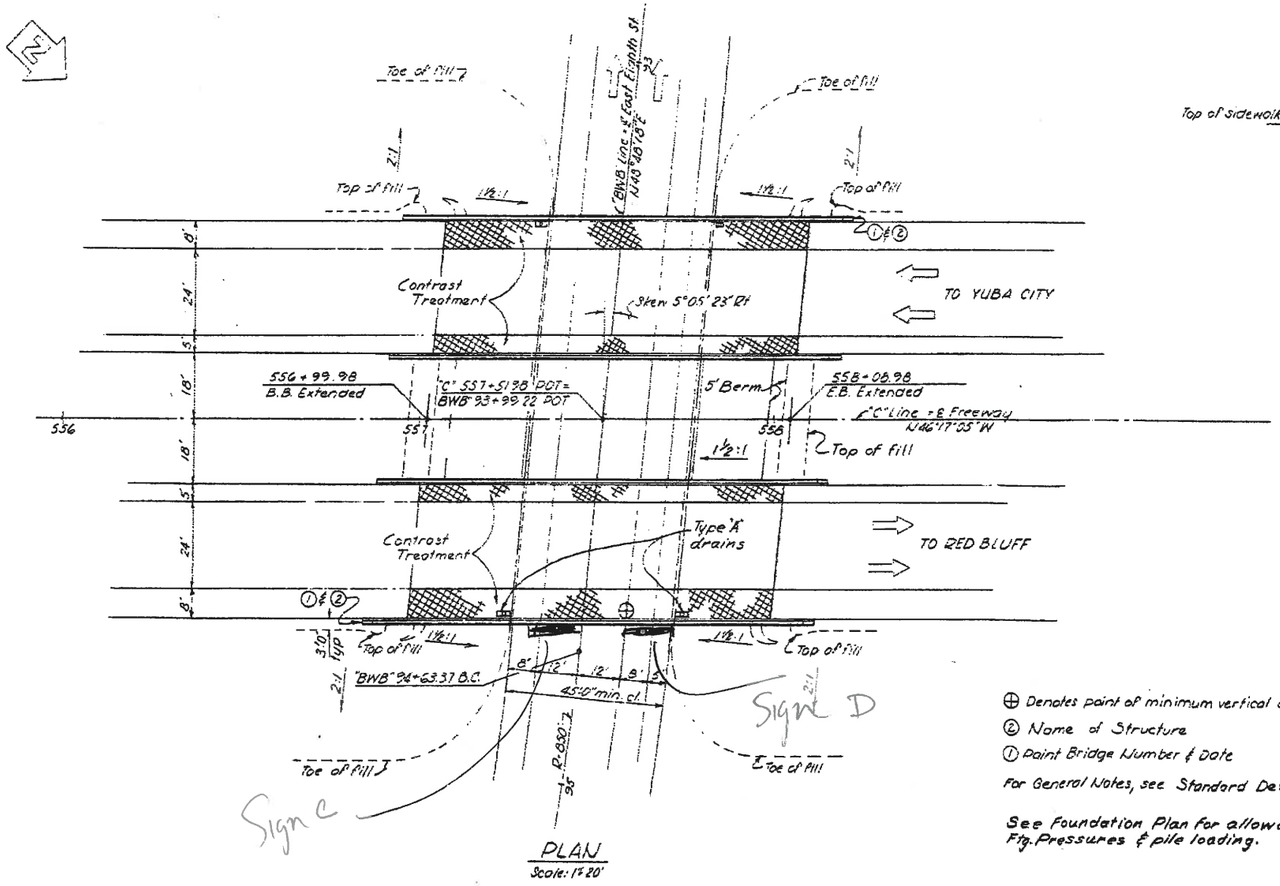
LEFT STRUCTURE	ABUT 1	ABUT 4
Specified Pile Tip Elev.	200.0	202.0
Estimated Pile Tip Elev.	198.0	200.0

RIGHT STRUCTURE	ABUT 1	ABUT 4
Specified Pile Tip Elev.	203.0	198.0
Estimated Pile Tip Elev.	200.0	195.0

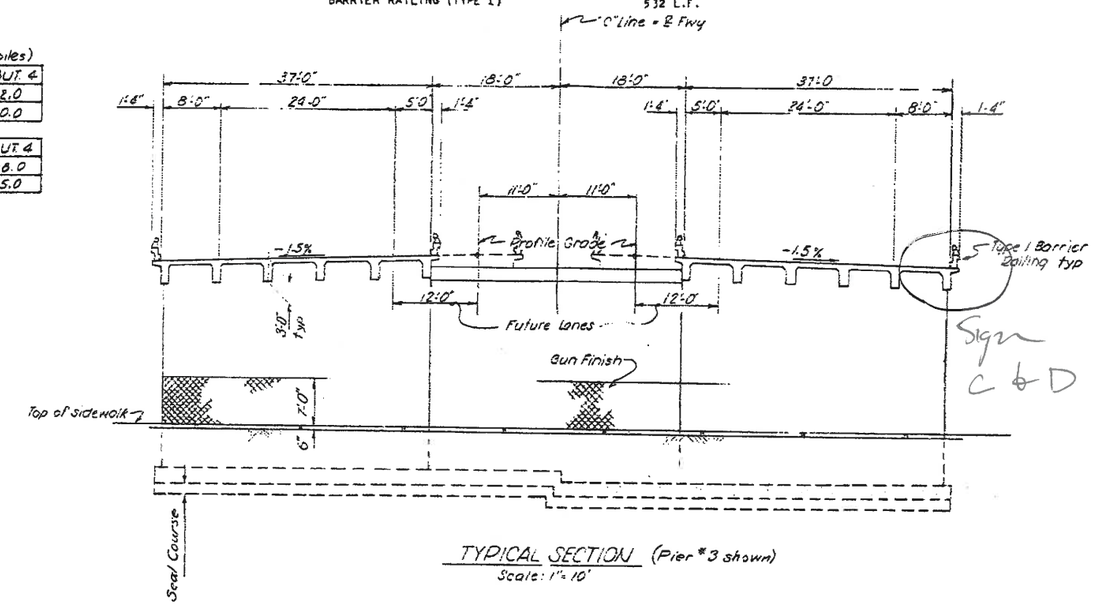
ELEVATION
Scale 1" = 20'

APPROXIMATE QUANTITIES
*FINAL QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	85 C.Y.
STRUCTURE EXCAVATION (TYPE "A")	770 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	520 C.Y.
*PERVIOUS BACKFILL MATERIAL	16 C.Y.
FURNISHING CONCRETE PILING (CLASS II)	650 L.F.
DRIVING CONCRETE PILES	20 EA.
*CLASS "A" CONCRETE (BRIDGE)	790 C.Y.
CLASS "A" CONCRETE (FOOTING BLOCK)	84 C.Y.
6" RUBBER WATERSTOPS	12 L.F.
*BAR REINFORCING STEEL (BRIDGE)	164,000 LBS.
BRIDGE DECK DRAINAGE SYSTEM	LUMP SUM
CONTRAST TREATMENT	315 S.Y.
4" ASBESTOS CEMENT PIPE	30 L.F.
BARRIER RAILING (TYPE 1)	532 L.F.



PLAN
Scale: 1" = 20'



TYPICAL SECTION (Pier #3 shown)
Scale: 1" = 10'

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Grid Grade
3	Site Plan
4	Foundation Plan
5	Abutment & Curtain Wall Details
6	Abutment & Pier Layout - Pier Details
7	Typical Section
8	Girder Layout
9	Girder Reinforcement
10	Log of Test Borings

Sheet Nos. with "A" suffix are grouped together as "Std. Bridge Details" and apply to several structures. For these sheets see "Little Chico Creek Bridge", Bridge No. 12-148 R/L.

1A	Standard Details No. 1 (T-Beam)
2A	Standard Details No. 2 (T-Beam)
5A	Barrier Railing Sheet 1
6A	Barrier Railing Sheet 2
8A	Concrete Pile Details

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

⊕ Denotes point of minimum vertical clearance
② Name of Structure
① Point Bridge Number & Date

For General Notes, see Standard Details No. 2

See Foundation Plan for allowable Ftg. Pressures & pile loading.

Live Loading H20-S16-44 Alternative

BRIDGE DEPARTMENT
... DESIGN SECTION ... 6
Project Designer: Hoy Barkent
Chief Designer: Hal Payne

DESIGN	by J. McKee	Checked	
DETAILS	by R. Sargent 10-66	Checked	
QUANTITIES	by L. Ohmuda 11-61	Checked	
SPECIFICATIONS	by A.D.D. 5-67	Date and Sketch Designed	
Approval Recommended by		Date Lic. No. 6789	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99 32

ROUTE 3/47 SEPARATION (NORTH)
LOCATED IN THE CITY OF CHICO IN BUTTE COUNTY

GENERAL PLAN

SCALE AS SHOWN	BRIDGE 12-150 R/L	FILE	DRAWING C 12150-1

PREL. DRAWING No. P-12150-1 | 3/26/63 | 3/4/63 | 3/1/63 | 1/30/63 | 2/21/63 | 3/2/63

63-0371040477.4

7

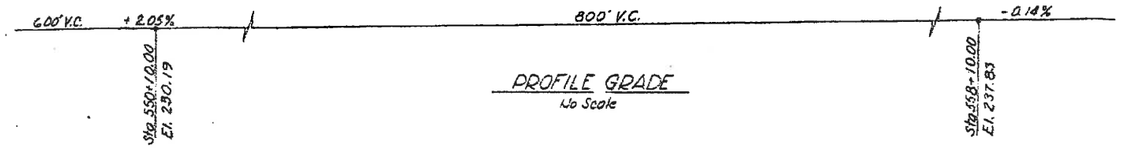
U-003-2(1)

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		130	149

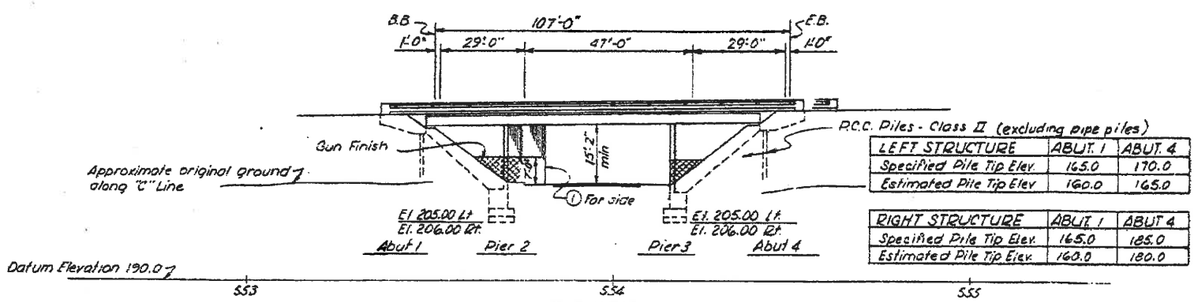
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But	3	C	1	10

DATE APPROVED July 22, 1963

For Finish Grades see "Grid Grade" sheet



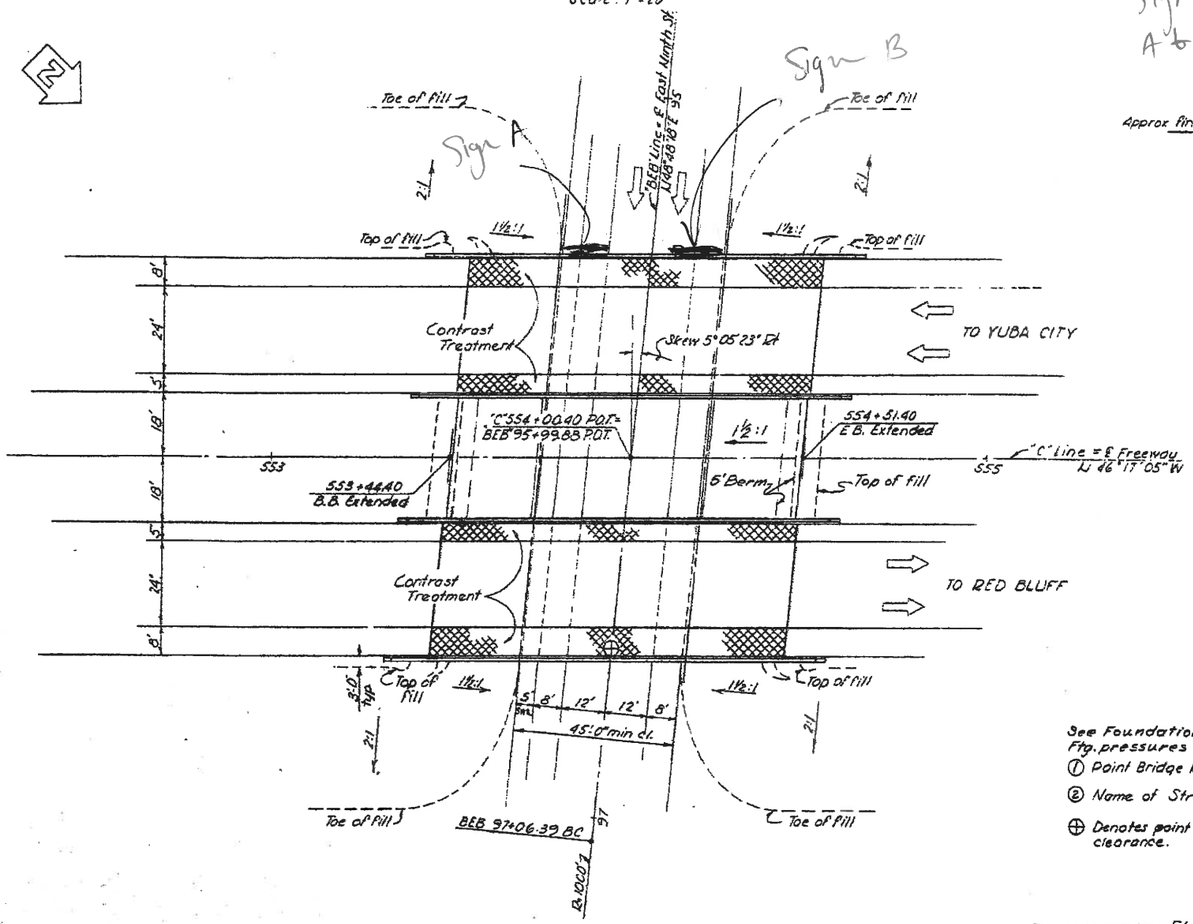
PROFILE GRADE
No Scale



LEFT STRUCTURE	ABUT. 1	ABUT. 4
Specified Pile Tip Elev.	165.0	170.0
Estimated Pile Tip Elev.	160.0	165.0

RIGHT STRUCTURE	ABUT. 1	ABUT 4
Specified Pile Tip Elev.	165.0	185.0
Estimated Pile Tip Elev.	160.0	180.0

ELEVATION
Scale: 1"=20'



PLAN
Scale: 1"=20'

See Foundation Plan for allowable ftg. pressures & Pile Loading.

① Point Bridge Number & Date

② Name of Structure

⊕ Denotes point of minimum vertical clearance.

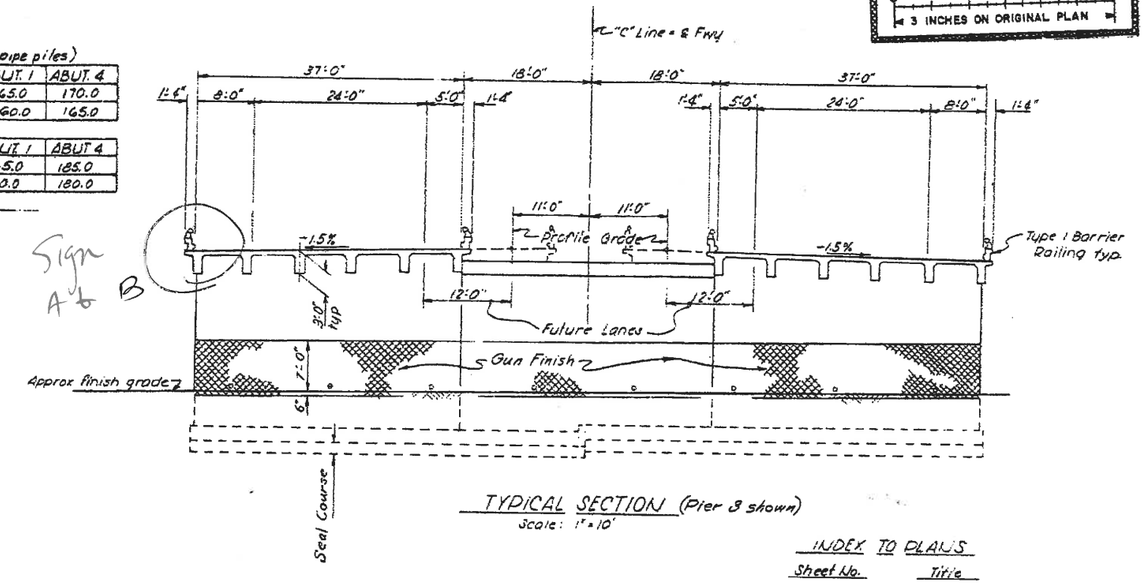
FOR GENERAL NOTES SEE Standard Details No. 2 Sheet

LIVE LOADING H20-S16-44 AND ALTERNATIVE

APPROXIMATE QUANTITIES
*FINAL QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	90 C.Y.
STRUCTURE EXCAVATION (TYPE "A")	870 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	500 C.Y.
*PERVIOUS BACKFILL MATERIAL	16 C.Y.
FURNISHING CONCRETE PILING (CLASS II)	1,250 L.F.
DRIVING CONCRETE PILES	20 EA.
*CLASS "A" CONCRETE (BRIDGE)	790 C.Y.
6" RUBBER WATERSTOPS	12 L.F.
CLASS "A" CONCRETE (FOOTING BLOCK)	87 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	165,000 LBS.
CONTRAST TREATMENT	320 S.Y.
4" ABBESTOS-CEMENT DRAIN PIPE	40 L.F.
BARRIER RAILING (TYPE 1)	524 L.F.

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN



TYPICAL SECTION (Pier 3 shown)
Scale: 1"=10'

INDEX TO PLANS

Sheet No.	Title
1	General Plan
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Sheet Nos. with A suffix are grouped together as "Std. Bridge Details" and apply to several Structures. For these sheets see "Little Chico Creek Bridge." Bridge No. 12-148 R/L.

1A	Standard Details No. 1 (T-Beam)
2A	Standard Details No. 2 (T-Beam)
5A	Barrier Railing Sheet 1
6A	Barrier Railing Sheet 2
8A	Concrete Pile Details

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 6

Section Superior. H. L. Paul
Project Designer. H. J. Burkett

DESIGN	By J. McCabe	Checked J. Blomquist 7-61	
DETAILS	By R. Rinquand 10-60	Checked J. Blomquist 7-61	
LAYOUT	By J. McCabe	Checked J. Blomquist 7-61	
QUANTITIES	By J. Chinnock 11-61	Checked Bentley 11-61	
SPECIFICATIONS	By A. D. D. 5-62	Checked Date and Initials Designed	

Approval Recommended by J. W. Ward
Engineer in Charge — Civil Engr. Licence No. 9750

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 3/47 SEPARATION (SOUTH)

LOCATED AT THE SOUTH CITY LIMIT OF CHICO IN BUTTE COUNTY

GENERAL PLAN

SCALE AS SHOWN	BRIDGE 12-149 R/L	FILE	DRAWING C-12149-1

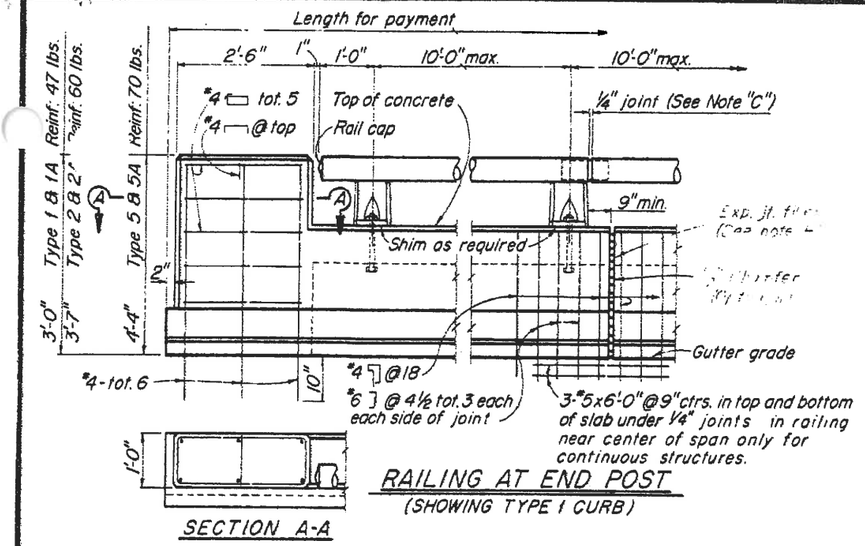
PRELIMINARY DRAWING No.	REVISION DATES							
P-12149-1	11/1/60	8/3/61	7/2/62	7/8/62	8/2/62			

Disregard prints bearing earlier revision dates
63-037104047 7.4

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		126	129

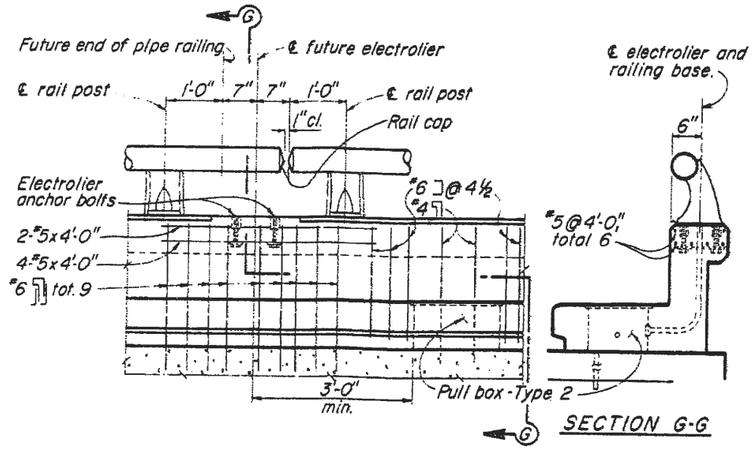
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But	3	C	5A	8

July 22, 1963



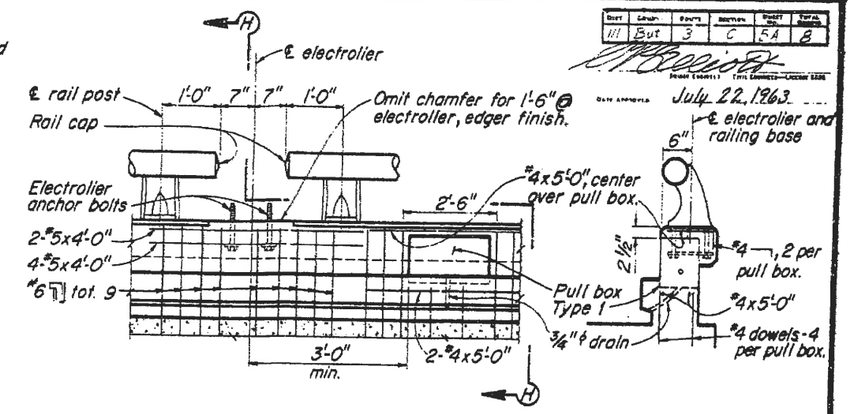
RAILING AT END POST
(SHOWING TYPE 1 CURB)

SECTION A-A



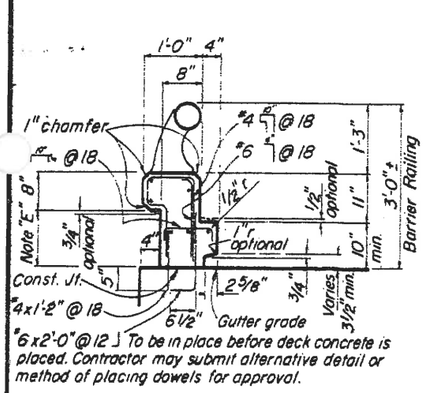
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

SECTION G-G

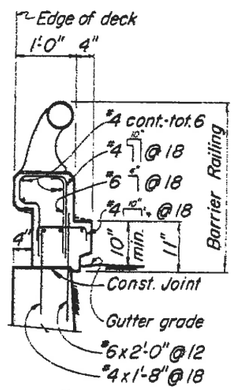


RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

SECTION H-H

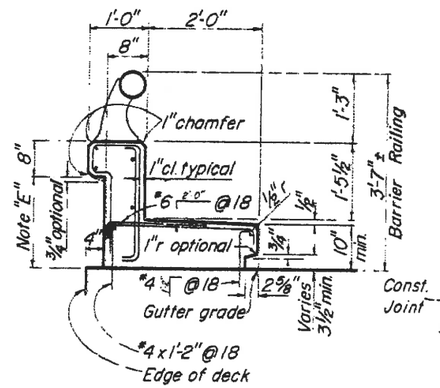


TYPE 1
Conc. 1.61 cu. ft./lin. ft.
Reinf. 11.8 lbs./lin. ft.

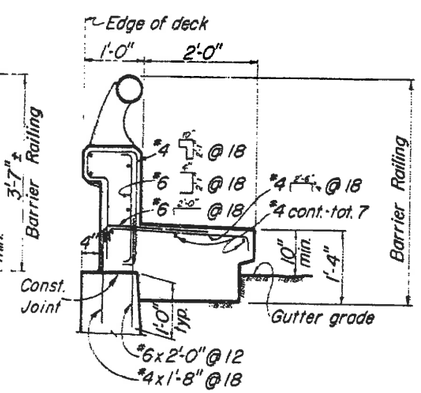


TYPE 1A
Conc. 1.61 cu. ft./lin. ft.
Reinf. 12.0 lbs./lin. ft.

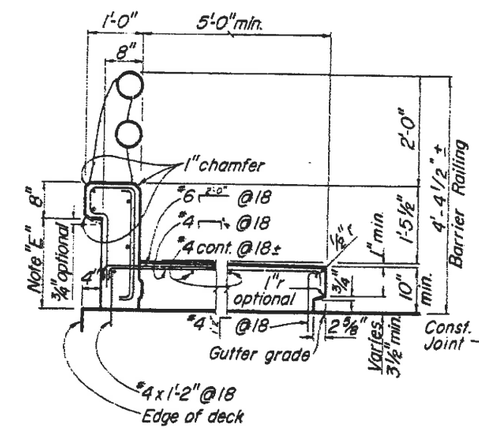
Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.



TYPE 2
Conc. 3.43 cu. ft./lin. ft.
Reinf. 14.7 lbs./lin. ft.

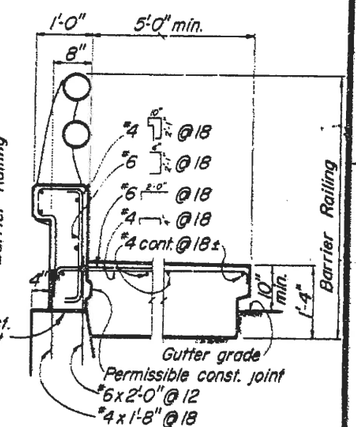


TYPE 2A
Conc. 4.30 cu. ft./lin. ft.
Reinf. 17.3 lbs./lin. ft.



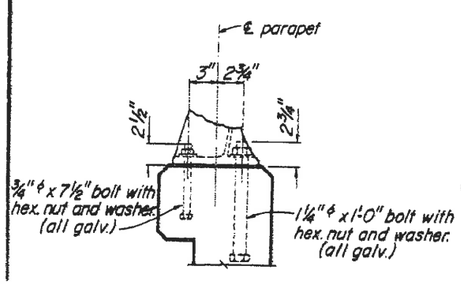
TYPE 5
Conc. 6.10 cu. ft./lin. ft.
Reinf. 17.2 lbs./lin. ft.

For 5'-0" width



TYPE 5A
Conc. 8.35 cu. ft./lin. ft.
Reinf. 19.7 lbs./lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½" = 1'-0"

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall joints to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1". Longitudinal reinforcement to stop at all joints in railing.
H. As an alternative an open joint may be used in Type 1 and Type 2 railings.

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor: H. L. Nagel
DESIGN: R. Katzenmeier 5-61
DETAILS: 11-61
QUANTITIES: J. Fox Eakin 11/61; Hamilton 11/61

4/62

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

LITTLE CHICO CREEK BRIDGE

BARRIER RAILING SHEET 1

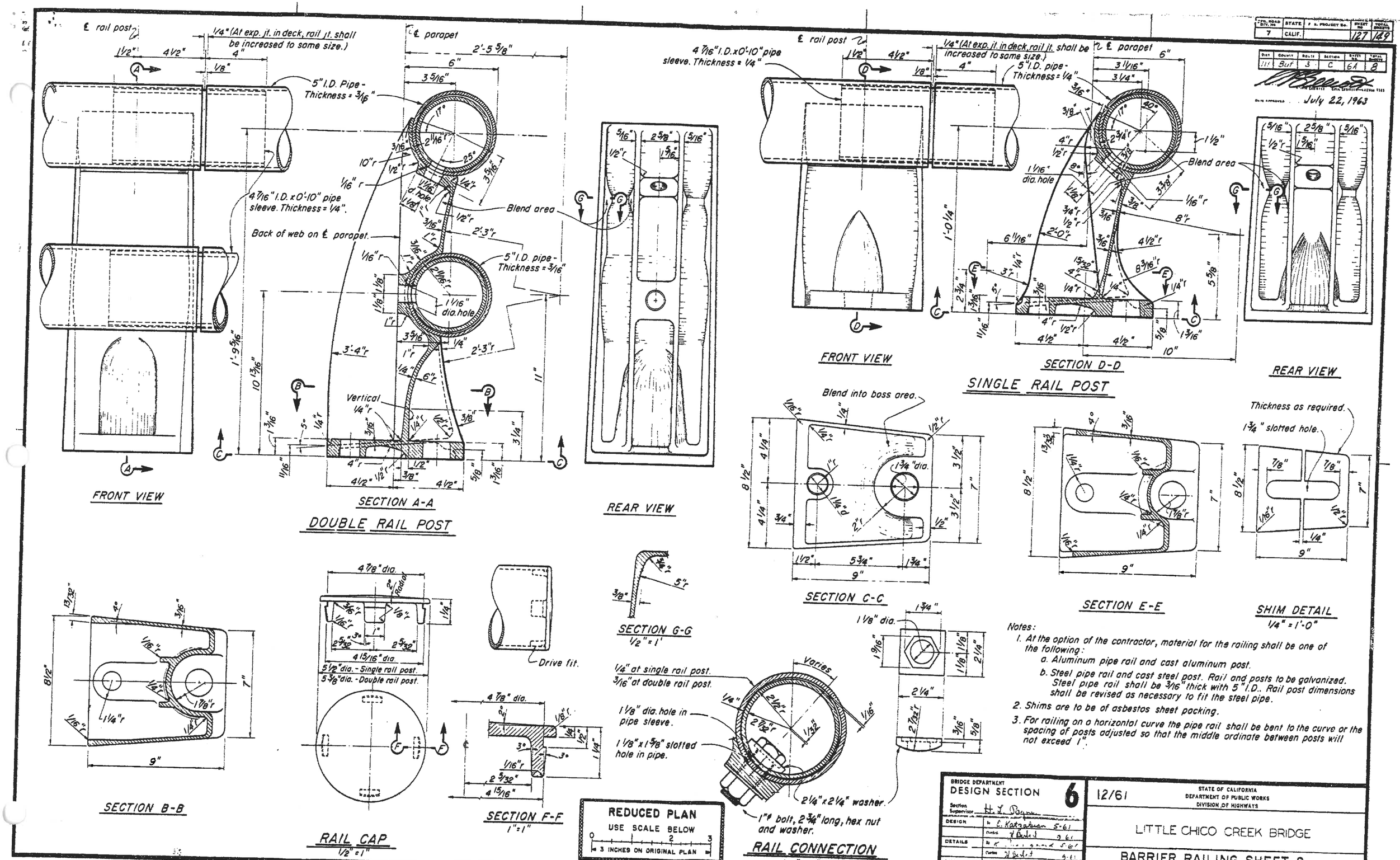
Except as noted
SCALE 3/4" = 1'-0"
BRIDGE 12 14B 12/2
FILE XS-9-63
DRAWING C-12 1-2-5

Disregard prints bearing earlier numbers
FREL. DRAWING NO.

FED. ROAD DIST. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		127	149

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
III	Sut	3	C	6A	8

Date approved July 22, 1963



Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT
DESIGN SECTION 6

Section Supervisor H. L. Payne

DESIGN	By C. Katzakian	5-61
	Checked	9-61
DETAILS	By K. [illegible]	5-61
	Checked	9-61
QUANTITIES	By L. H. Parker	11/61
	Checked Gimblin	11/61

12/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

LITTLE CHICO CREEK BRIDGE

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1"
BRIDGE 12-148 R/L
XS-9-71 FILE
DRAWING C-12140-1c

Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-12148 11 5/25/61

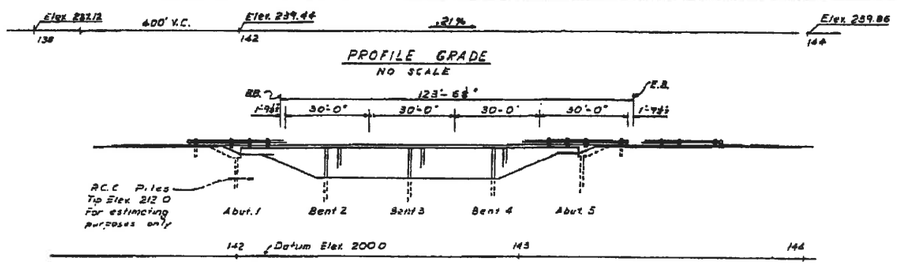
62

FED. ROAD SEC. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	S-7511		30	30

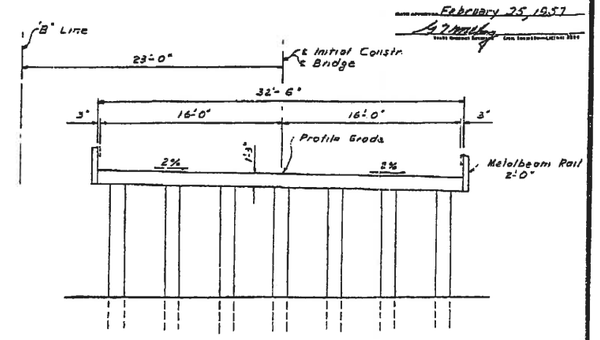
DIST.	ROUTE	SECT.	SECTION	PROJ. NO.	TOTAL SHEETS
III	BUT	47-7	B	4	5

P.M. 11.1

February 25, 1957

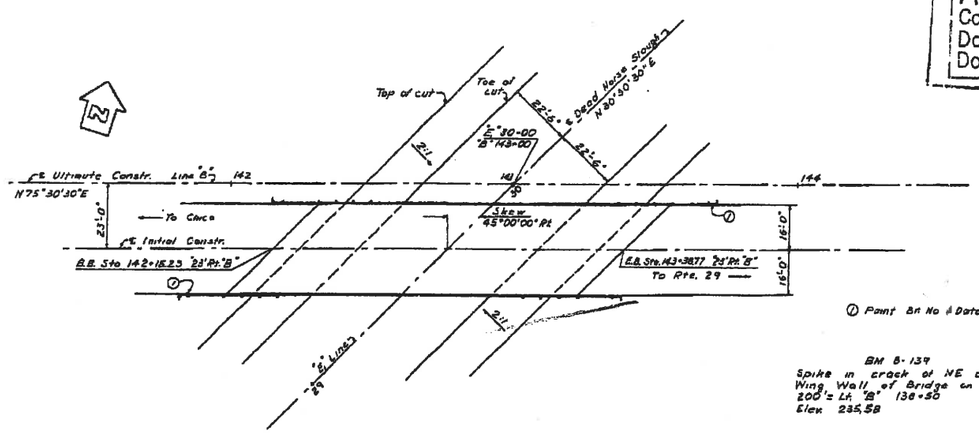


ELEVATION
SCALE 1" = 20'



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 57-3TC57-F
R.E. 8 NOVEMBER 1957.

Chico to Hog Springs
III-But-47-B
Contract 57-3TC37-F
S-7511(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 I. Kozak

DESIGN	O. Bender		
DETAILS	O. Bender Jan. 56		
QUANTITIES			
SPECIFICATIONS	R.S.D. 1-57	R.S.D.	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-5205-1.1

PREL. DRAWING No. P-5205 V 2" H

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 [illegible] TITLE HAO I

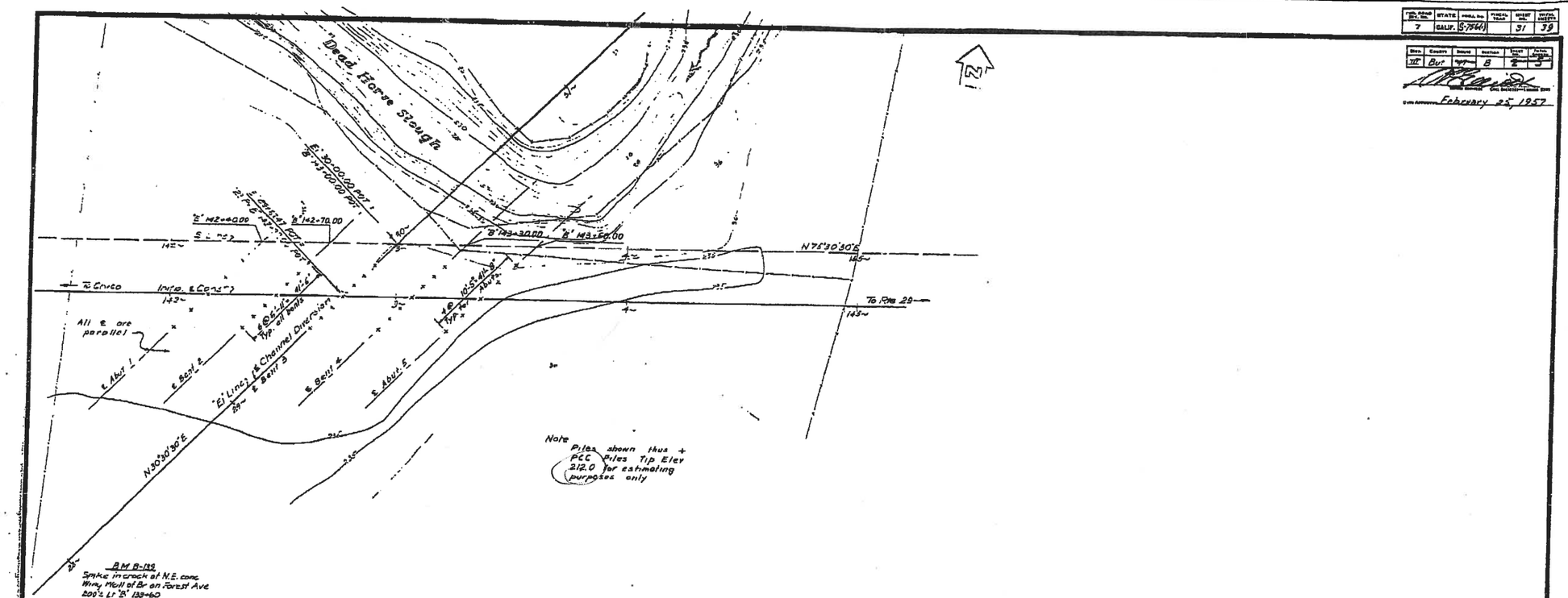
ClibPDF - www.fastio.com

6-3

FED. ROAD DIST. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	(5-7560)		31	39

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
III	But	99	B	2	3

February 25, 1957



BM B-139
Spike in crack at N.E. corn.
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" elk oak on S side
Humbolt Rd opposite Auto repair
garage bet Forest Ave & El Monte Ave
Elev 238.34

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-Butte-99
E-5205-97-B
E-5205-97-B
E-762(3)

31

USC&GS
PR 5205-1
Pier Drawing PR 5205-1
N.I.K. DATE 9-56
JGO DATE 10-3-56

BRIDGE DEPARTMENT
DESIGN SECTION
C. Bender
Chief Designer
DESIGN C. Bender
DETAILS O. Bender
CHECKING
SPECIFICATIONS

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 E-5205-2 1

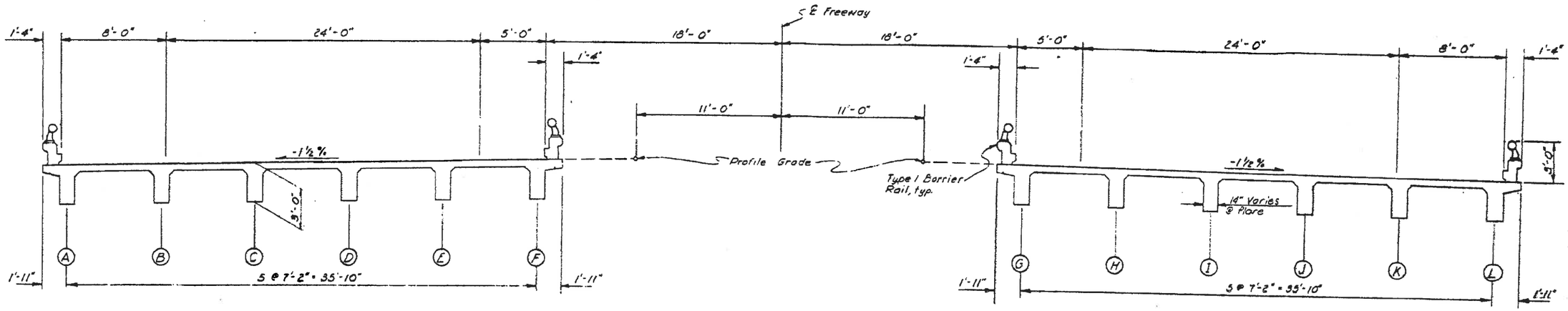
PREL. DRAWING No. P- 6505 | 6 | PR 5205-3

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 TITLE HAOI

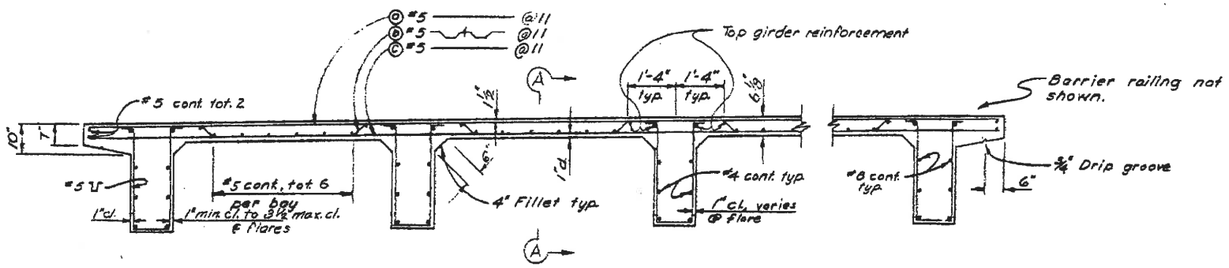
CHIPDF

DIST.	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
111	Sac.	3	C	7	10

July 22, 1963

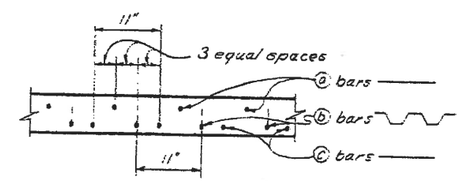


TYPICAL SECTION
¼" = 1'-0"



PART SECTION
½" = 1'-0"

Note:
For girder reinf. not shown see "Girder Reinf." sheet.



SECTION A-A
No Scale

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 6
Section Supervisor H. L. Payne
DESIGN By G. McKee
Checked [illegible] P-61
DETAILS By [illegible] 3-61
Checked [illegible] 5-61
QUANTITIES By J. O'Kimura 11-61
Checked Hamblin 11-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 3/47 SEPARATION (SOUTH)

TYPICAL SECTION

SCALE As shown | BRIDGE 12-149 R/L | FILE | DRAWING C-12149-7

Disregard prints bearing earlier numbers →

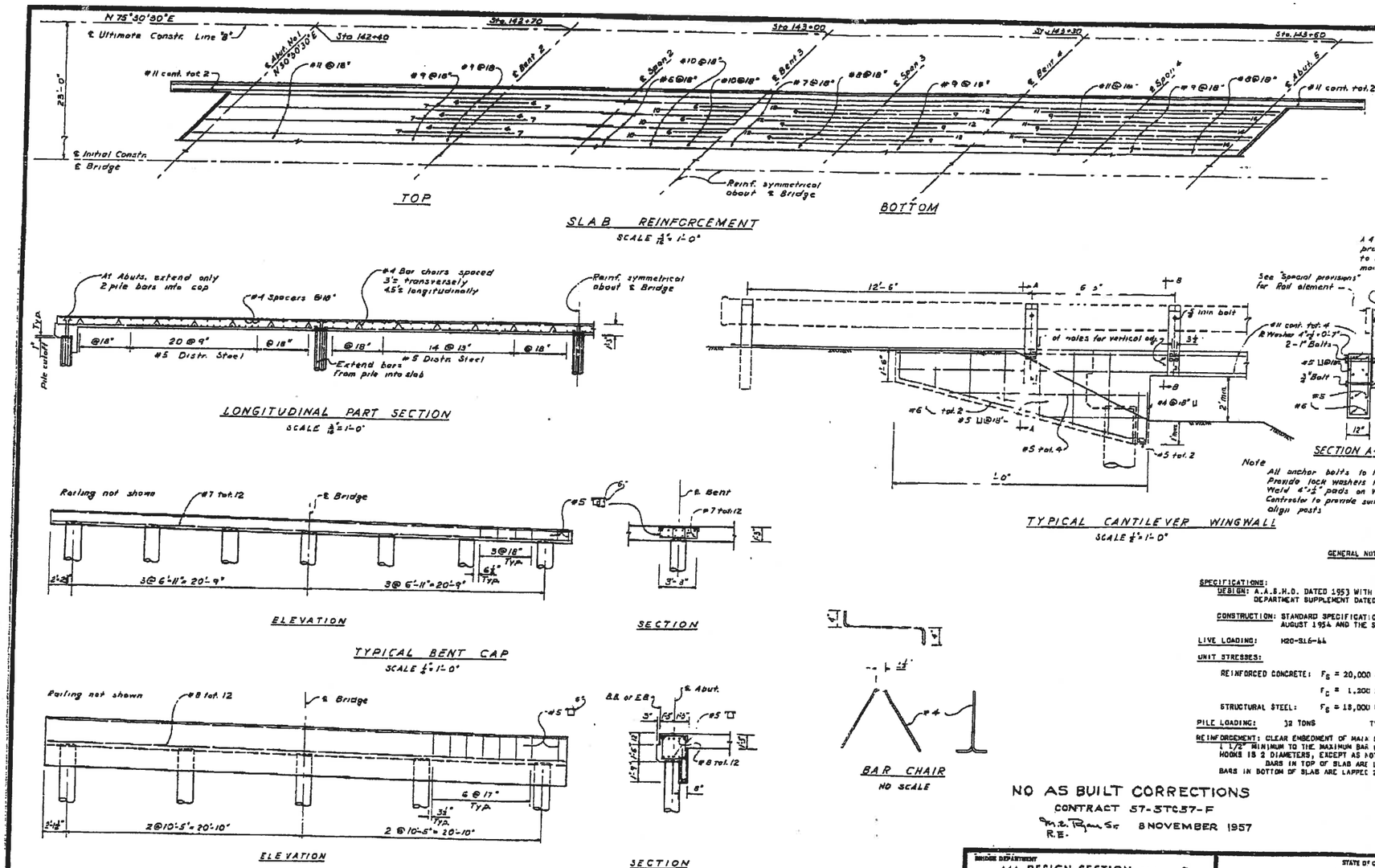
PREL. DRAWING No. P-12149-5 | 4/61 | 5/61 | 8/61 | 5/62 | 7/63

6-4

FED. ROAD DIST. NO.	STATE	FISCAL YR.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		S-7621A	32	39

DIST.	COUNTY	ROUTE	SECTION	PROJ. NO.	TOTAL SHEETS
III	BUT	47	B	S	54

February 25, 1957



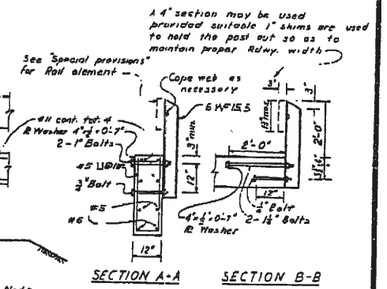
SLAB REINFORCEMENT

SCALE 1/16" = 1'-0"

Note
℄ of Abuts. & all Bents are parallel

LONGITUDINAL PART SECTION

SCALE 1/16" = 1'-0"



Note
All anchor bolts to have hex. nuts & cut washers
Provide lock washers for top anchor bolts
Weld 4"x1/4" pads on WF posts under top anchor bolts
Contractor to provide suitable sheet metal shims to align posts

TYPICAL CANTILEVER WINGWALL

SCALE 1/4" = 1'-0"

ELEVATION

SECTION

TYPICAL BENT CAP

SCALE 1/4" = 1'-0"

ELEVATION

SECTION

TYPICAL ABUTMENT CAP

SCALE 1/4" = 1'-0"

BAR CHAIR

NO SCALE

GENERAL NOTES

SPECIFICATIONS:
DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:

REINFORCED CONCRETE: F_s = 20,000 P.S.I., N = 10
F_c = 1,200 P.S.I.

STRUCTURAL STEEL: F_s = 18,000 P.S.I.

PILE LOADING: 32 TONS TYPE: CONCRETE

REINFORCEMENT: CLEAR EMBEDMENT OF MAIN SLAB BARS IS 1 1/2 DIAMETER OR 1 1/2" MINIMUM TO THE MAXIMUM BAR UTILIZED IN SPAN. DACKING FOR HOOKS IS 2 DIAMETERS, EXCEPT AS NOTED.
BARS IN TOP OF SLAB ARE LAPPED 35 DIAMETERS AT SPLICES.
BARS IN BOTTOM OF SLAB ARE LAPPED 20 DIAMETER AT SPLICES.

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

Chico to Hog Springs
III-But-47-B
Contract 57-32C37-F
S-7621(1)

32

AS BUILT PLANS
Contract No. 57-3TC.37
Date Completed
Document No. 3000 12.44

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer C. Beckett
Chief Designer
DESIGN D. Bender
DETAILS D. Bender
QUANTITIES
SPECIFICATIONS
Approval Recommended by

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)

PREL. DRAWING No. P-5205 3

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DATE May 11, 1971 SIGNATURE [illegible] TITLE WAO I

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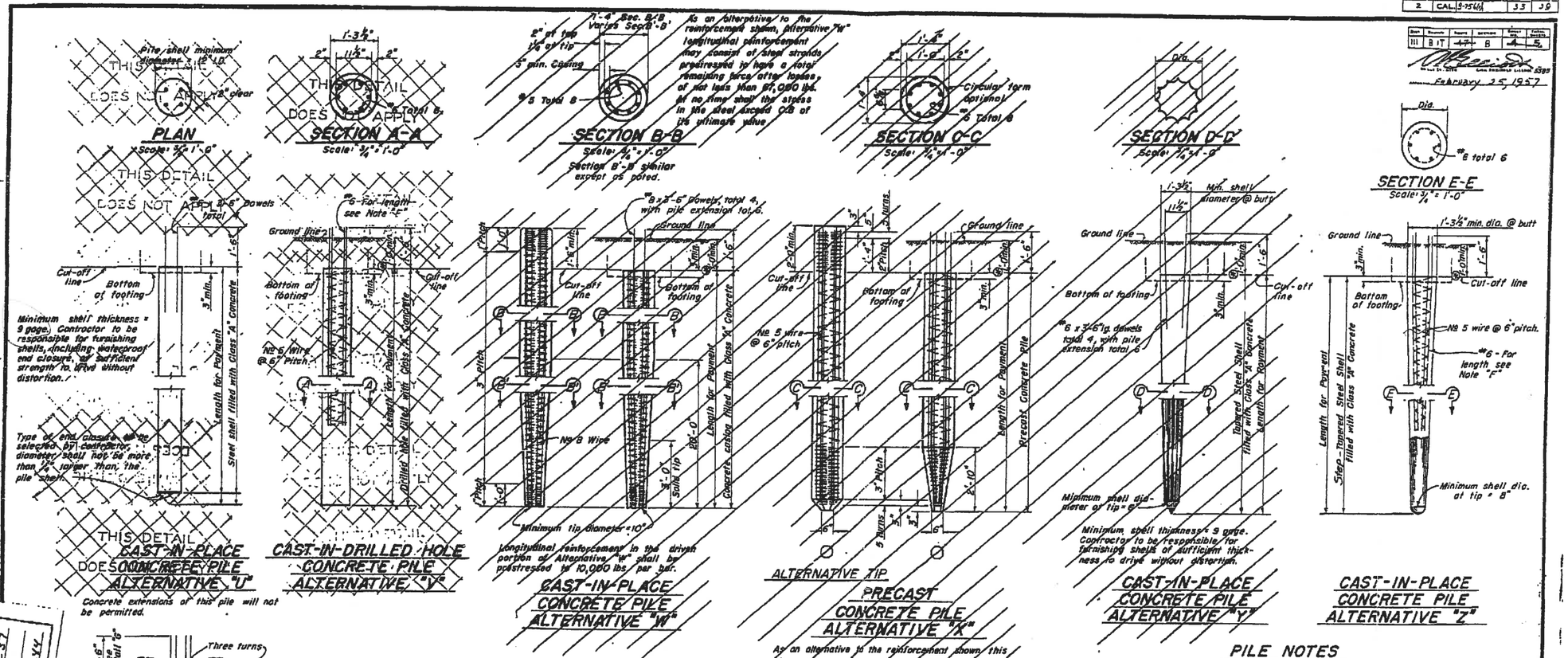
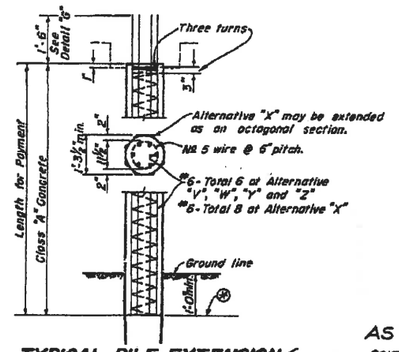
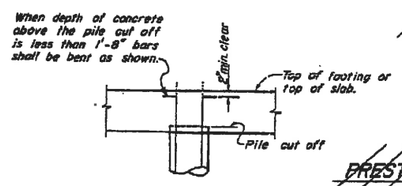
1ST. ROAD PRT. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	3-154½		33	39

Date	Revisions	Engrs.	Revisions	Sheet No.	Total Sheets
III	8 1 T	4-7	8	4	5

February 25, 1957







PRESTRESSING NOTE

All steel strand to be prestressed shall be high tensile cold-drawn stress relieved wire strand of a diameter not to exceed ⅞", having an ultimate tensile strength of not less than 200,000 p.s.i. and an elongation at rupture of not less than 3% in 10".

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.

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

Note "E".

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 ⅓ 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 ⅓ penetration into this strata or (2) 12' whichever is the greater.

Chico to Bog Springs
III-Sut-47-B
Contract 57-32237-F
5-761(1)

AS BUILT PLANS
CONTRACT ~~57-32~~ 57-F
R.E.
Sup. 8 NOVEMBER 1957

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer O. Berdier
Chief Designer
DESIGN By O. Berdier Checked
DETAILS By O. Berdier Checked
QUANTITIES By Checked O. Berdier
SPECIFICATIONS By Plans and Specs. Coordinator
Approval Recommended by Chief, Design
Civil and Structural Engr. Licensed No. 7835

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 | 12-3-16-17 FILE | DRAWING C-5205-4

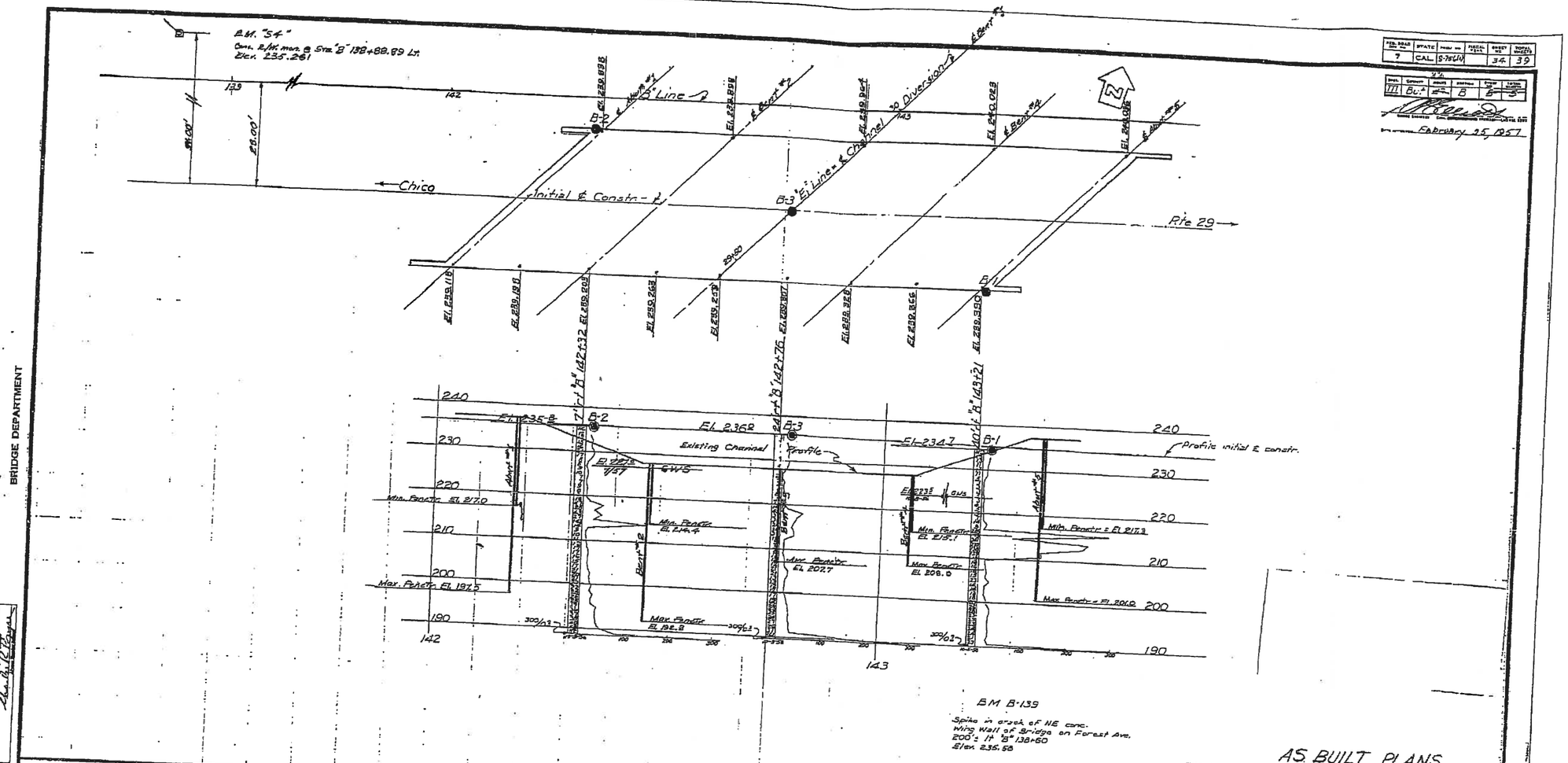
PREL. DRAWING No. P-5205 | 3 | 4

AS BUILT PLANS
Contract No. 57-37F-37
Date Completed
Document No. 3000 12-XX

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 TITLE HAO I

6-6



BRIDGE DEPARTMENT

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	S-7601(1)		34	39

DIST.	SUPERVISOR	DRAWN	CHECKED	TRACED	CHECKED
III	Bl.	[illegible]	B	[illegible]	[illegible]

February 25, 1957

AS BUILT PLANS
CONTRACT 57-37C37-F
R.E. [illegible] Date 8 Nov. 1957

Chico to Hog Springs
III-Btt-47-B
Contract 57-37C37-F
S-701(1)

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.

Silt percentages

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 boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit

1" Soil Tube — Rotary Boring — Penetration Boring

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-42 | Drawing B-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 [illegible] TITLE HAO I