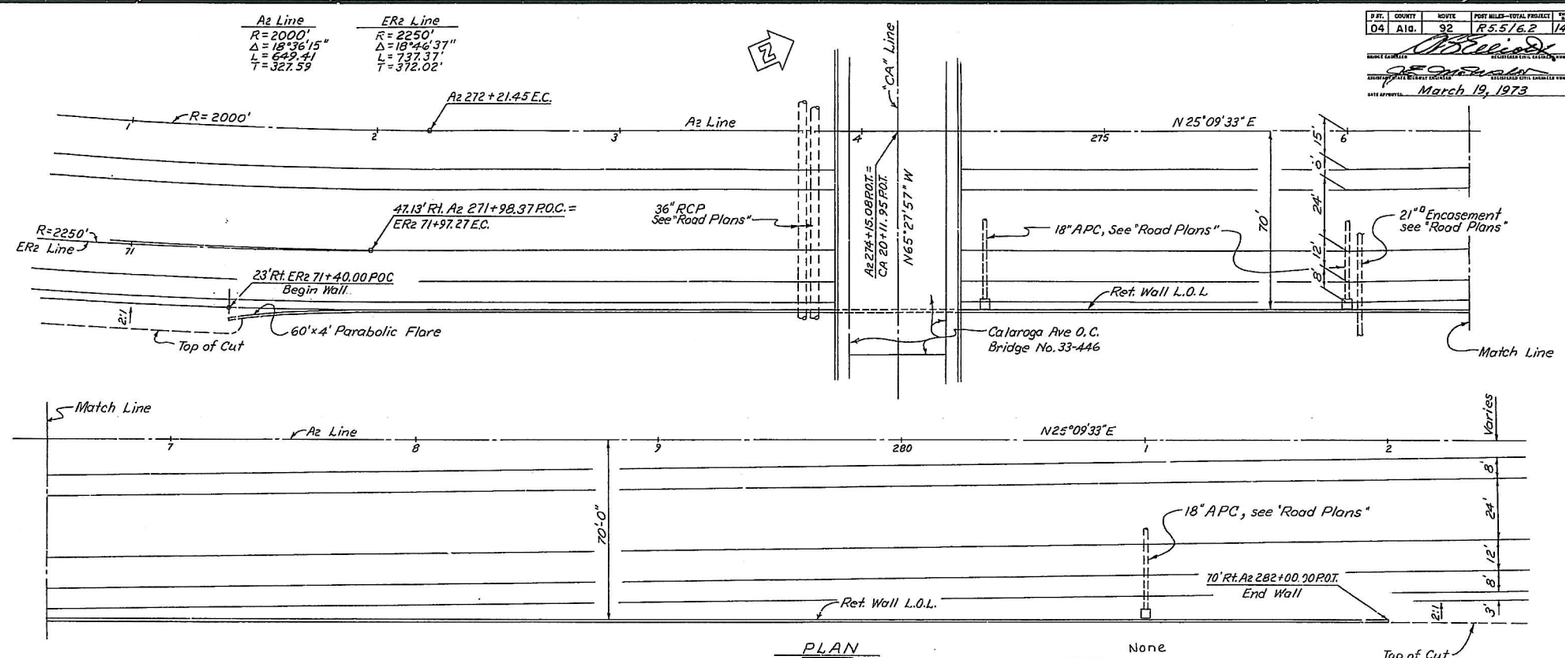
Ret Wall "G"

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	PROJ. NO.	PROJ. SUFFIX
04	Ala.	92	R5.5/6.2	140.149	

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER

ASSISTANT STATE BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER

DATE APPROVED March 19, 1973



PLAN
1"=20'

None

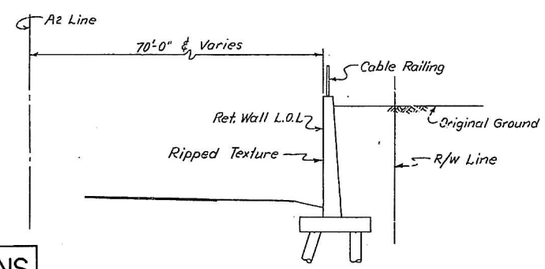
AS BUILT

CORRECTIONS BY

CONTRACT NO.

DATE

Class 45-1 Piles
Specified Tip Elev. -38
Estimated Tip Elev. -42



TYPICAL SECTION
1" = 5'

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Retaining Wall Layout No.1
3	Retaining Wall Layout No.2
4	Retaining Wall Layout No.3
5	Retaining Wall Layout No.4
6	Retaining Wall Type 1 H=4'-30'
7	Log of Test Borings

STANDARD PLANS DATED JAN 1973

Sheet No.	Title
A62-BB	Excavation and Backfill Bridges and Walls
B0-3	Bridge Details
B2-1	Pile Details Class 45-1 & Class 45-2
B3-8	Retaining Wall Details No.1
B3-9	Retaining Wall Details No.2
B11-47	Cable Railing

APPROXIMATE QUANTITIES

FURNISH PILING (CLASS 45-1)	13,780	LF
DRIVE PILING (CLASS 45)	177	EA
RIPPED TEXTURE (REINFORCING BAR)	3,200	SQ FT
WATERSTOP	115	LF
CABLE RAILING	1,060	LF

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	3,065	CY
STRUCTURE BACKFILL (RETAINING WALL)	1,8.0	CY
PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	250	CY
STRUCTURE CONCRETE, RETAINING WALL	985	CY
BAR REINFORCING STEEL (RETAINING WALL)	87,000	LB

FOR GENERAL NOTES SEE Retaining Wall Details No.1

BRIDGE DEPARTMENT
DESIGN SECTION 7
Section Supervisor
Project Engineer D. Fukushima

DESIGN	by	8/70	Checked
DETAILS	by	8-69	Checked
LAYOUT	by	4/70	Checked
QUANTITIES	by		Checked
SPECIFICATIONS	by		Checked and Made Current

Approval Recommended by — Registered Civil Engineer Lic. No. 7289

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVENUE

LOCATED IN THE CITY OF HAYWARD IN ALAMEDA COUNTY

GENERAL PLAN

POST MILE	DRAWING No.	SHEET	OF
6.0	33/1002-1	1	7

RETURN DATES: 12/4/70, 12/4/70, 3/12, 12/4/70, 3/16, 7/28/70, 8/19, 12/4, 12/1/72, 12/1/72

(PRELIMINARY STAGE ONLY)

WO 167621
CU 04204

Disregard prints bearing earlier revision dates

AS BUILT PLANS
Contract No. 04-167624
Date Completed -
Document No. 4-111 8137

140

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 TRANSPORTATION.

DATE 6/8/82 DRAFTER

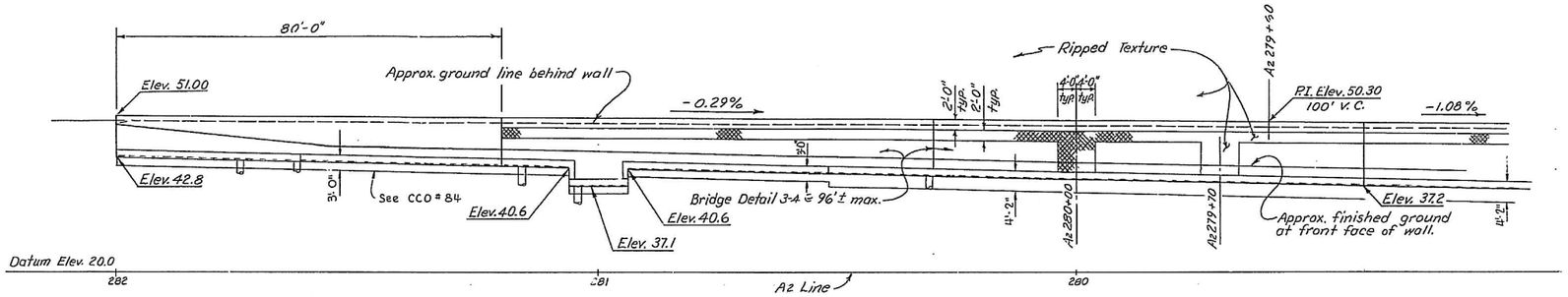
DIRECTOR

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	92	R5.5/6.2	141	149

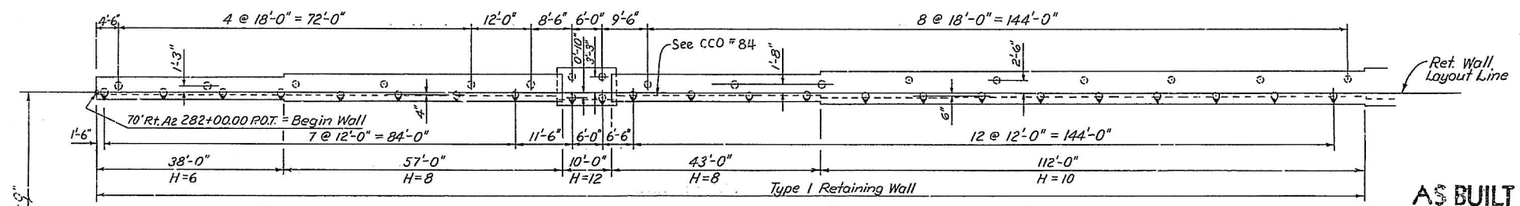
DESIGN SECTION 7 REGISTERED CIVIL ENGINEER NO. 12761

DATE APPROVED March 19, 1973

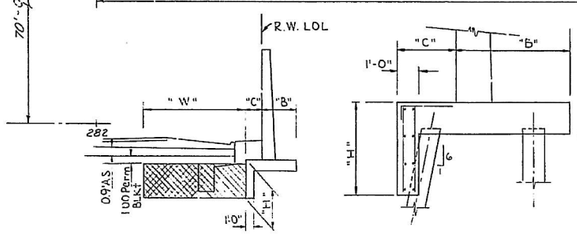


ELEVATION
1"=10'

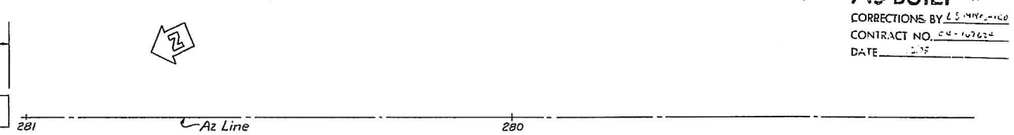
AS BUILT PLANS
Contract No. 04-167624
Date Completed -
Document No. 4/1/8137



AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE



Typical Revised Section
Sta 277+50 to 282+00



PLAN
1"=10'

Note:
Longitudinal dimensions are measured along ret. wall layout line.
Piles shown thus: ⊙ at Revised Sections
Piles battered 1:3 shown thus: ⊙
For details of ripped texture see "Retaining Wall Layout No. 4" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 7
Project Engineer D Fukushima
DESIGN By 7/70
DETAILS By 7/70
QUANTITIES By Hinton

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVE.

RETAINING WALL LAYOUT No. 1

POST MILE | DRAWING NO. 337002 | SHEET 2 OF 7

WO
CU

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

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 TRANSPORTATION.

DATE 6/6/76 DIVISION Dale Mendenhall TITLE Microfilm Supervisor

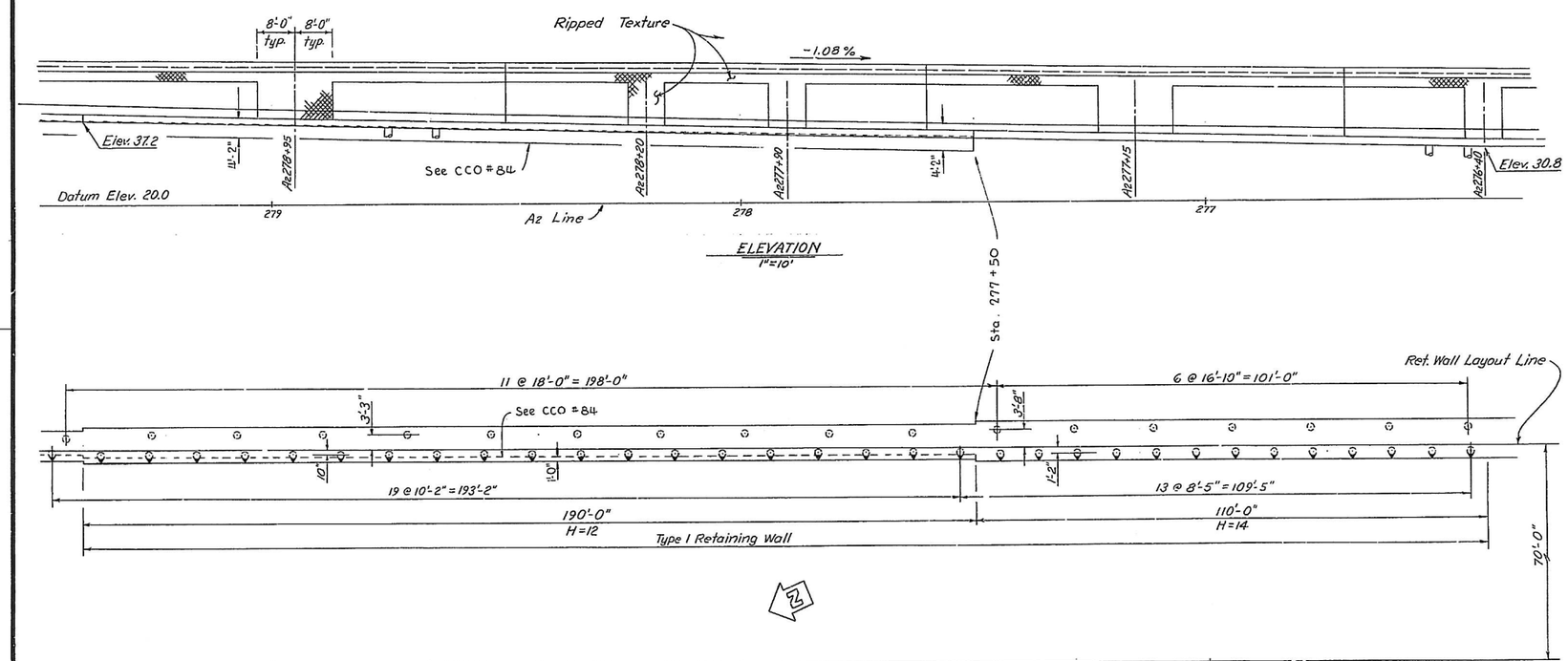
141

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	92	R 5.5/6.2	142	149

RESIDENT ENGINEER OR SUPERVISOR — ASSISTANT DIST. ENGINEER OR DIST. ENGINEER

DATE APPROVED March 19, 1973



For "Notes" see "Ref. Wall Layout No. 1" sheet.

AS BUILT PLANS
Contract No. 04-167624
Date Completed —
Document No. 4-1-5137

AS BUILT
CORRECTIONS BY S. Nivarenko
CONTRACT NO. 04-167624
DATE 12/75

BRIDGE DEPARTMENT
DESIGN SECTION 7

Project Engineer	D. Fukshima	
DESIGN	By	7-70
	Checked	
DETAILS	By	7-70
	Checked	
QUANTITIES	By	J. Hinton
	Checked	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVE.

RETAINING WALL LAYOUT NO. 2

POST MILE	DRAWING NO.	SHEET	OF
	337002	3	7

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates

WO
CU

142

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 TRANSPORTATION.

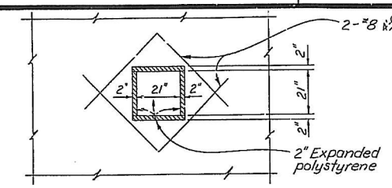
DATE 5/16 SIGNATURE Walt Wilfanbaum TITLE Microfilm Supervisor

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala.	92	R5.5/6.2	143	149

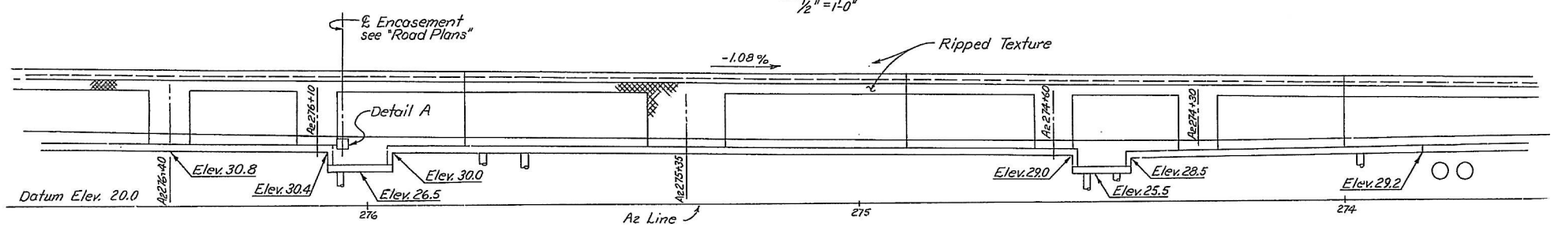
DESIGN SECTION DEPARTMENT — REGISTERED CIVIL ENGINEER NO. 10751

DATE APPROVED March 19, 1973

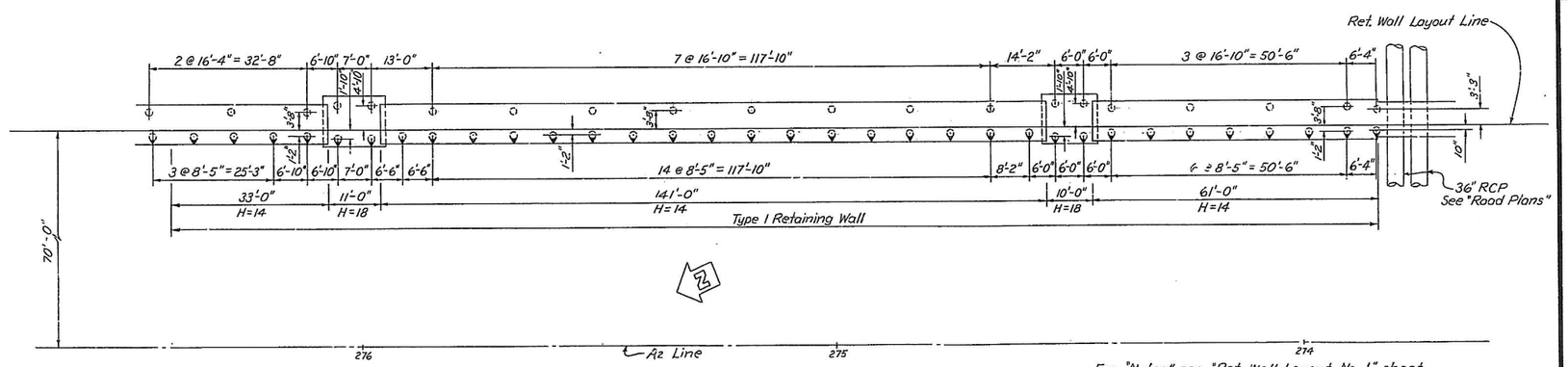


DETAIL - A
1/2" = 1'-0"

Note:
For additional wall reinf. not shown see "Retaining Wall Utility Opening" on sheet B3-9 of the STANDARD PLANS dated Jan. 1973.



ELEVATION
1" = 10'



For "Notes" see "Ret. Wall Layout No. 1" sheet.

PLAN
1" = 10'

AS BUILT PLANS
Contract No. 04-167624
Date Completed -
Document No. 4000 8037

None
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

BRIDGE DEPARTMENT
DESIGN SECTION 7
Project Engineer D. Fukushima
DESIGN By 7/70
Checked
DETAILS By 7/70
Checked
QUANTITIES By J. Hinton
Checked

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVE.

RETAINING WALL LAYOUT NO. 3

POST MILE | DRAWING NO. 337002 | SHEET 4 OF 7

WO
CU

Diagonal prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

143

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 TRANSPORTATION.

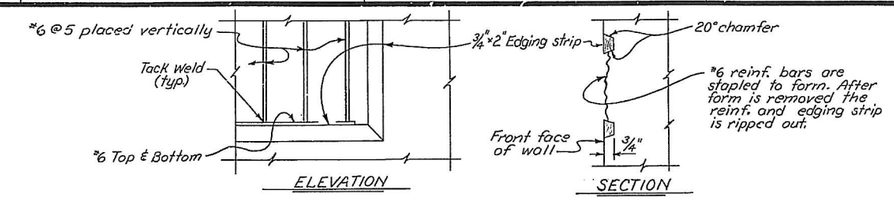
DATE 6/9/76 — TITLE Duke Mendoza — TITLE Microfilm Supervisor

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

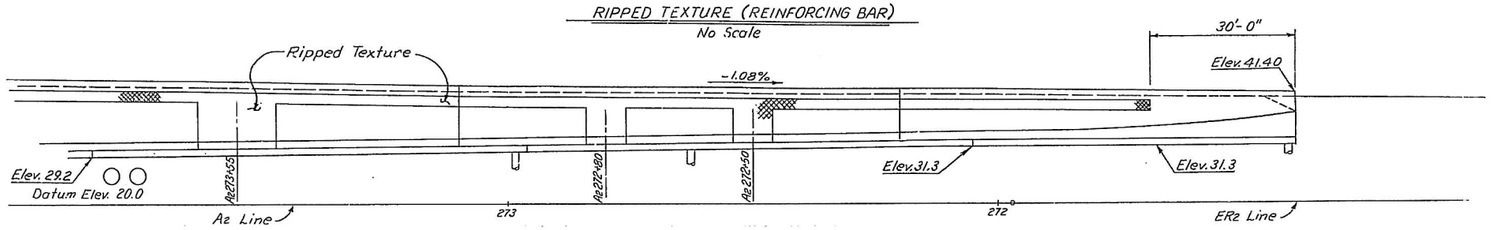
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala.	92	R 5.5/6.2	144	149

STATE BRIDGE ENGINEER (REGISTERED CIVIL ENGINEER NO. 0786)

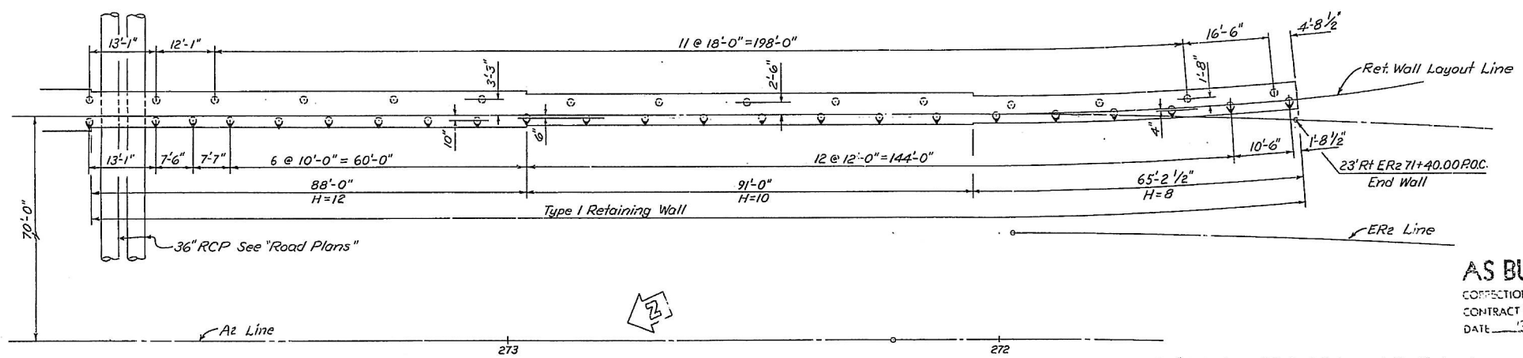
DATE APPROVED March 19, 1973



RIPPED TEXTURE (REINFORCING BAR)
No Scale



ELEVATION
1"=10'



PLAN
1"=10'

For "Notes" see "Ret. Wall Layout No. 1" sheet.

None
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 04-167624
Date Completed -
Document No. 4-FCC 8137

144

BRIDGE DEPARTMENT
DESIGN SECTION 7
Project Engineer D. Fukushima

DESIGN	By D. Fukushima	7-70
	Checked	
DETAILS	By D. Fukushima	7-70
	Checked	
QUANTITIES	By J. Hinton	
	Checked	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVE.

RETAINING WALL LAYOUT NO. 4

POST MILE	DRAWING NO.	SHEET	OF
	337002	5	7

WO
CU

Disregard prints bearing earlier revision dates

REVISION DATES (IN CHAMFER STAGE ONLY)

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 TRANSPORTATION.

DATE 6/9/76 TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM

Revised 9-24-58 Added Note ⓐ JB

Rev. Location F Key. 9-30-58 JB

File Section Reinf. Removed. 10-21-58 JB

Changed note of top "Spread Ftg Sec." TJ 6-21-60

Revisions in table 1-1-60 JTS

Added 1' after 4'-3 in upper right hand corner of sheet 1-3-61 JTS

Removed Keys & added Const Joint 9-14-61 JTS

Revised Table and Removed Misc. Note Same Spread Ftg Sec. 10-12 JTS

Revision: 8-22-62 Added note pertaining to quantities. Olmsby.

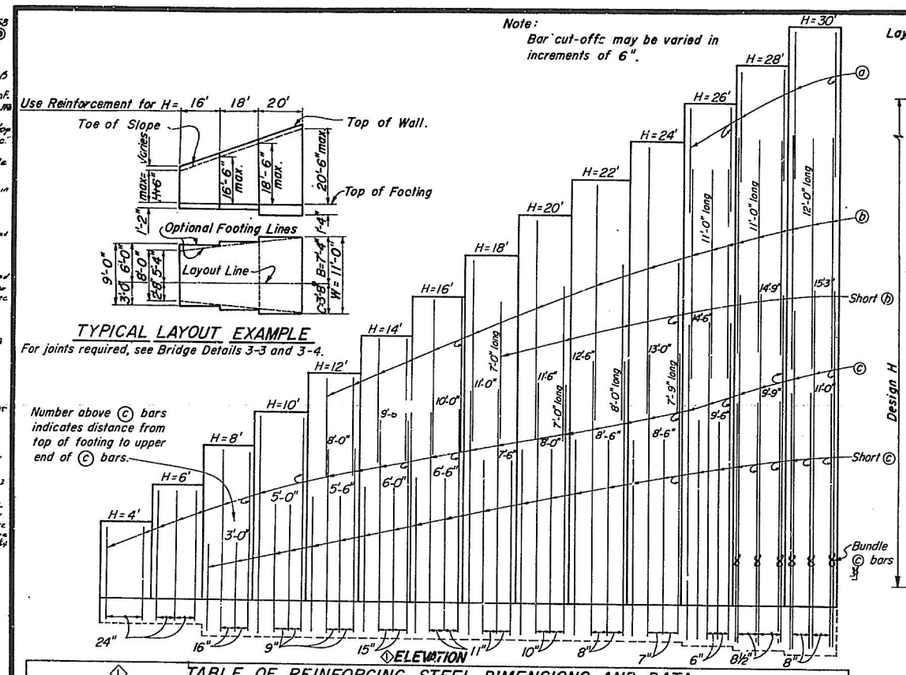
Deleted Dim. line in Spread Footing Section 4-65 JH.

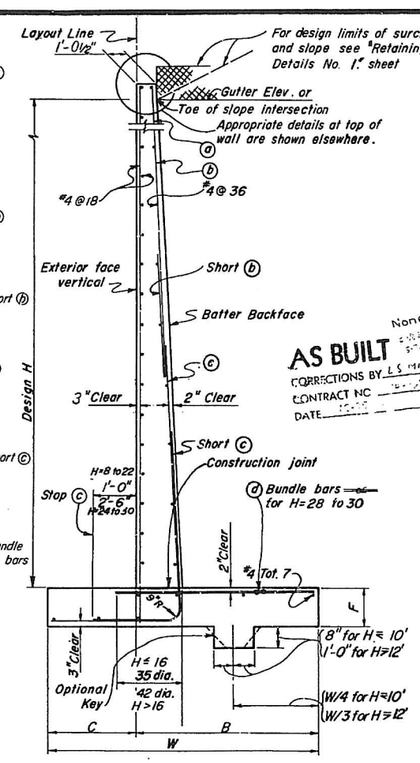
Changed "5-#7 in 15-#4 in Tab" of Reinf Steel of Column. Changed H=4 to H=22 1-8-68 JTS

Revised Title Block & Ch-Bl. See Sheet 7 Date: Signature Block of 8-8-68 above Ch-Bl-Sec. J 12-68

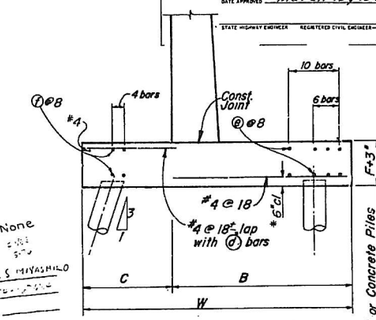
Changed 8'-0" to 10'-0" in Misc Pile Ftg 4' Pile Reinf Full Ht. 11-19-68 EJ

Changed Title 3-10-66 EJ

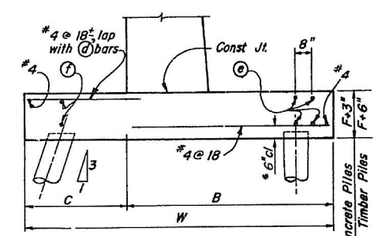




SPREAD FOOTING SECTION



45T PILE FOOTING SECTION
H=4 Thru H=22



45T PILE FOOTING SECTION
H=24 Thru H=30

AS BUILT
None
CORRECTIONS BY L.S. MIYASHIRO
CONTRACT NO.
DATE

DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET	TOTAL SHEETS
04	Ala	92	R5.5/6.2		145	149

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER — LICENSE EXPS

DATE APPROVED March 19, 1973

STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER — LICENSE EXPS

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		ⓐ 4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-9"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	11'-4"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
Batter		1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	3/4:12	7/8:12
ⓐ	bars												#6@24	#6@17	#6@16
ⓑ	bars					#4@18	#6@30	#6@22	#7@22	#8@20	#8@16	#8@14	#8@12	#8@8½	#8@6
ⓒ	bars	#5@24	#5@24	#5@16	#5@9	#6@9	#9@15	#9@11	#10@11	#11@10	#11@8	#11@7	#11@6	#10@8½	#10@8½
ⓓ	bars	#5@24	#5@24	#4@16	#4@9	#5@9	#8@15	#8@11	#10@11	#10@10	#10@8	#10@7	#10@6	#9@8½	#9@8 1
Total ⓒ	bars	6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	6-#7	6-#10	6-#7	4-#7	4-#7	4-#7	4-#7
Total ⓕ	bars				4-#7	4-#7	4-#7	4-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
2' Level surcharge	Toe Pr. k/sf	1.6	1.9	2.2	2.3	2.8	3.3	3.5	3.8	4.3	4.6	4.9	5.3	5.7	6.2
2:1 unlimited slope	Toe Pr. k/sf	1.1	1.5	2.0	2.5	2.7	3.3	3.6	4.1	4.7	5.5	5.9	6.5	7.1	7.5
1½:1 limited slope	Toe Pr. k/sf	1.3	1.7	2.1	2.5	2.9	3.4	3.8	4.2	4.8	5.4	5.8	6.5	7.2	7.5
Spread Footing	Steel lbs/ft.	16	19	30	37	48	69	90	116	157	207	240	301	343	404
	Conc cf/ft.	8.8	12.3	16.1	19.8	24.9	28.9	33.1	37.8	44.2	51.2	62.3	71.8	86.6	102.5
Concrete Pile ftg.	Steel lbs/ft	29	32	43	70	81	103	124	142	184	234	260	321	364	426
	Conc cf/ft.	10.4	12.9	17.1	21.2	25.7	30.7	35.3	41.4	46.7	~~52.2~~	~~63.6~~	~~77.6~~	~~88.4~~	~~104.7~~

ⓕ Denotes a bundle of 2 bars

Note: Extend longitudinal footing reinforcement from lower H, 36d into higer H, when footing is continuous.

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1."

Quantities apply to Design H portion and exclude the added portion above "Gutter Elevation."

Note:
This sheet supersedes sheet No. B3-1 of the STANDARD PLANS dated Jan. 1973.

Note:
Clearance to front face reinf. and wall thickness revised.

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

* Except 9" where timber piles are used.

ⓐ For pile footing Design H=4' use same footing dimensions as Design H=6'

PILE EMBEDMENT IN FOOTING

Pile Type	Embedment
Concrete	3"
Steel	5"
Timber	6"

1 REV. ELEV, TABLE, PILE FTG SEC (4 thru 22) 6/72

6/72 STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS XS-3-46

RETAINING WALL AT CALAROGA AVE.
SPECIAL DETAILS
RETAINING WALL TYPE I H=4'-30'

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
		337002	6	7

W.O.

Disregard prints bearing earlier revision dates

REVISION DATES

AS BUILT PLANS
Contract No. 04-0K7404
Date Completed
Document No. 4-5-5137

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 TRANSPORTATION.

DATE 5/96 DIVISION Walt Wijnalum Signature

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET	TOTAL SHEETS
08	Ala	92	R5.5/6.2	146	149

DISTRICT SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 10081

DATE APPROVED March 19, 1973

NONE

AS BUILT

CORRECTIONS BY

CONTRACT NO. 08-167624

DATE 12-75

E.M. "J 95+13.53
C.H.C. brass disc in
unlayed medium 0.5' Rt
"A2" 271+30.7
Elev 39.62

"A2" Line

"C" 274+15.08 P.O.T. =
"CA" 20+11.95 P.O.T.

Retaining Wall

PLAN
Scale: 1" = 50'

Approx. ground line along "A2" Line

PROFILE
Scale: Horz 1" = 30'
Vert 1" = 10'

Elev.	Description
25	gravel
	Dark gray CLAY
10/14	Slightly compact brown SILT with CLAY binder
9/14	Loose light brown SANDY SILT
5-8/14	Very loose light brown SANDY SILT
	Very soft dark brown SILTY CLAY
5/14	Soft light brown SILTY CLAY
11/14	Stiff dark brown CLAY
6/14	Loose light brown SILT with CLAY binder
10/14	Slightly compact light brown CLAYEY SILT GRAVEL
26/14	Compact light brown medium-fine SAND
19/14	Slightly compact light brown SANDY SILT
65/14	Dense light olive brown SILTY fine-medium SAND with GRAVEL
15/14	Slightly compact light brown SILT with CLAY binder
15/14	Slightly compact grey green SANDY SILT with CLAY binder
17/14	Slightly compact olive SILT with CLAY binder
35/14	Compact light brown SANDY SILT with CLAY binder
27/14	Compact olive SILT
27/14	Dense olive medium-fine SAND
26/14	Dense light olive SANDY SILT

B-4 59.3 67' Rt. "A2" 272+20 — 300/0.5 6-25-69
B-6 42.3 119' Rt. "A2" 273+60 — 300/0.5 3-4-69
B-5 42.7 113' Rt. "A2" 274+72 — 3-3-69
B-1 44.2 82' Rt. "A2" 276+63 — 6-24-69
B-2 46.2 65' Rt. "A2" 277+80 — 6-25-69
B-3 48.6 67' Rt. "A2" 279+40 — 6-25-69

GWS 61 27.2 6-25-69; GWS 61 29.3 3-4-69; GWS 61 26.2 6-24-69; GWS 61 25.3 6-25-69; GWS 61 26.4 6-25-69

LEGEND OF BORING OPERATIONS

Penetrometer; Sounding Penetrometer; Sample Boring (Dia); Rotary Boring (Dia); Auger Boring (Dia); Jet Boring; Core Boring; Test Pit

Penetration Boring; Rotary Boring; 1" Soil Tube

LEGEND OF EARTH MATERIALS

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

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Boulder; Cobble; Gravel; Coarse Sand; Medium Sand; Fine Sand; Silt; Clay

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.

FIELD STUDY R. Kissner 6-03
PREPARED R. Kissner 12-03
CHECKED R. Kissner 12-03
Approved Recommended By

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

146

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

RETAINING WALL AT CALAROGA AVE.

LOG OF TEST BORINGS

POST MILE 16.8 — DRAWING NO. 33 7001 — SHEET 7 OF 7

WO 167621
CU 04204 PR 33446-2

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY PLACE ONLY)

AS BUILT PLANS
Contract No. 08-167624
Date Completed -
Document No. 4-1008137

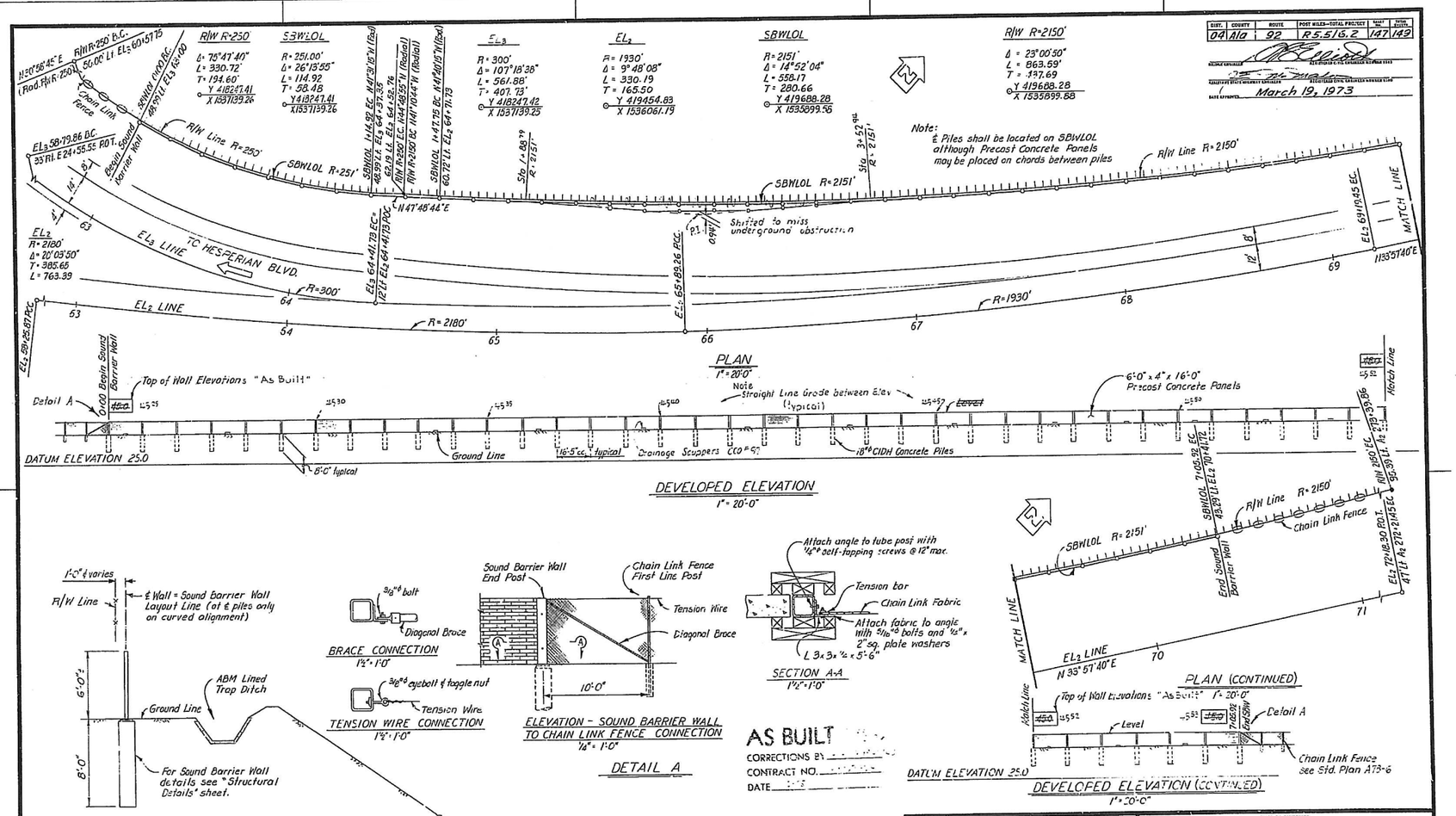
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/96 — SIGNATURE — TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET	TOTAL SHEETS
04	Ala	92	R5.5/6.2	147	149

March 19, 1973



AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

APPROXIMATE QUANTITIES

SOUND BARRIER WALL (PRECAST) 706 LF

Total Length of Sound Barrier Wall = 705'-11"
Total Number of Precast Panels = 23
Total Number of 18"ø CIDH Conc. Piles = 44

AS BUILT PLANS
Contract No. 04-167604
Date Completed -
Document No. 4-1-1-8157

147

BRIDGE DEPARTMENT
... DESIGN SECTION ... 13

Section Supervisor				
Project Engineer	M. Pohl			
DESIGN	by M. Pohl	2-73	Checked	2-73
DETAILS	by M. Pohl	2-73	Checked	2-73
LAYOUT	by M. Pohl	2-73	Checked	2-73
QUANTITIES	by M. Pohl	2-73	Checked	2-73
SPECIFICATIONS		2-73	Date and Time Delivered	

Approved Recommended

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PRECAST SOUND BARRIER WALL
EL3 63+00 TO EL2 70+41.72

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
			1	3

WO 167621
CU 04204

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

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 TRANSPORTATION.

DATE 6/4/74 TITLE Draftsman

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	92	R5.5/6.2	148	149

DESIGNED BY [signature] REGISTERED CIVIL ENGINEER NUMBER 5370

REGISTERED CIVIL ENGINEER NUMBER 5370

DATE APPROVED March 19, 1973

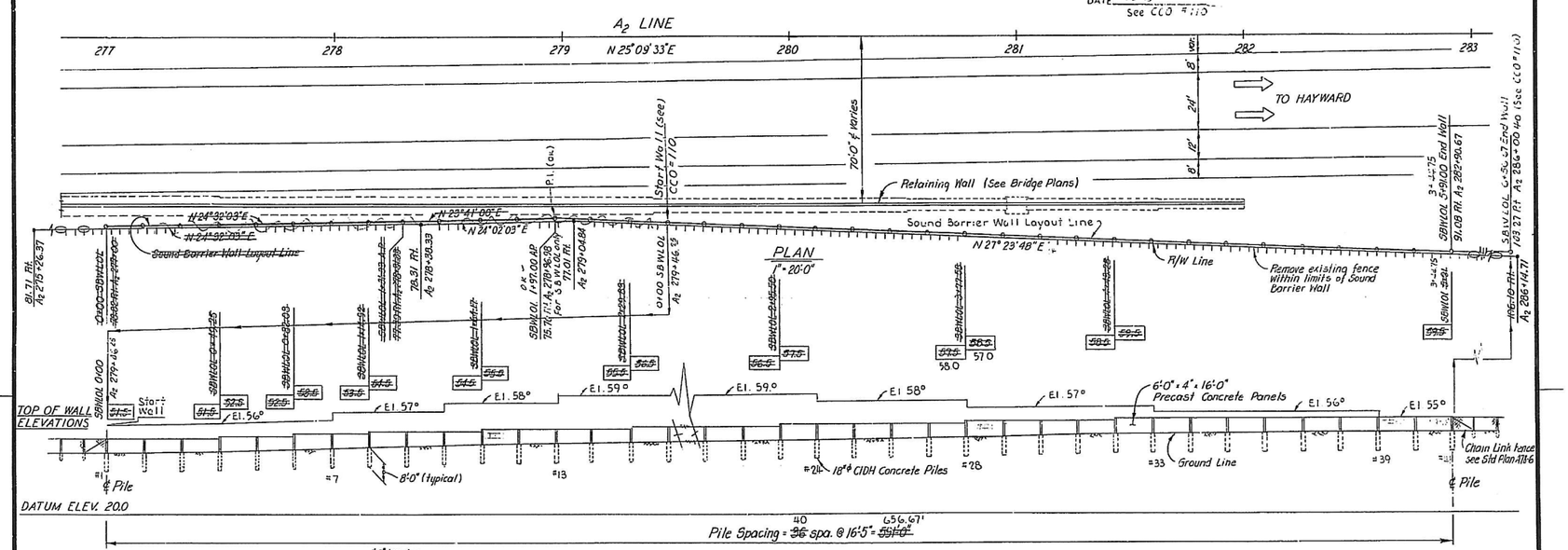
AS BUILT

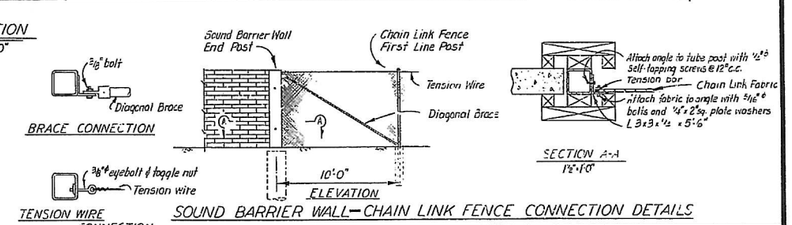
CORRECTIONS BY [illegible]

CONTRACT NO. [illegible]

DATE [illegible]

See CCO #110





SOUND BARRIER WALL—CHAIN LINK FENCE CONNECTION DETAILS

AS BUILT PLANS
Contract No. 04-167624
Date Completed -
Document No. 4-CC-8137

NOTES:

1. Sound Barrier Wall piles shall not be drilled until Retaining Wall is constructed and backfilled
2. For Sound Barrier Wall details see "Structural Details" sheet

APPROXIMATE QUANTITIES

SOUND BARRIER WALL (PRECAST) 591 LF

Total Length of Sound Barrier Wall = 591'-0"
Total Number of Precast Concrete Panels = 56
Total Number of 18"φ CIDH Concrete Piles = 37

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor [signature]
Project Engineer [signature]

DESIGN	by M. Pohll	2-73	Checked	[signature]	2-73
DETAILS	by M. Pohll	2-73	Checked	[signature]	2-73
LAYOUT	by M. Pohll	2-73	Checked	[signature]	2-73
QUANTITIES	by M. Pohll	2-73	Checked	[signature]	2-73
SPECIFICATIONS	by [signature]	2-73	Date and Time Checked		

Approval Recommended [signature] Design Engineer

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PRECAST SOUND BARRIER WALL
A2 ~~277+00~~ 279+46.25 TO A2 ~~282+91~~ 286+00.40

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
			2	3

WO 167621
CU 04204

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

148

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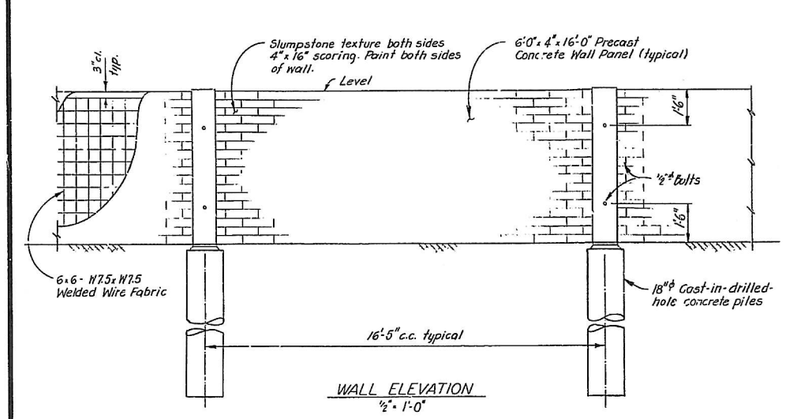
DATE 6/9/76 DRAFTSMAN [signature] TITLE Microfilm Supervisor

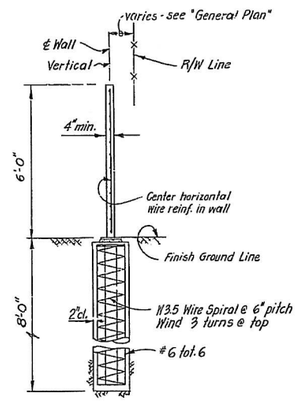
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	92	R5.5/6.2	149	149

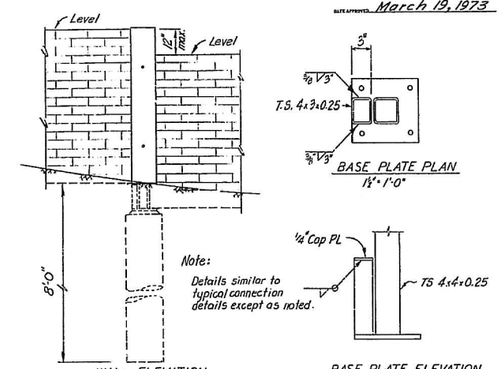
March 19, 1973



WALL ELEVATION
1/2" = 1'-0"



TYPICAL SECTION
1/2" = 1'-0"

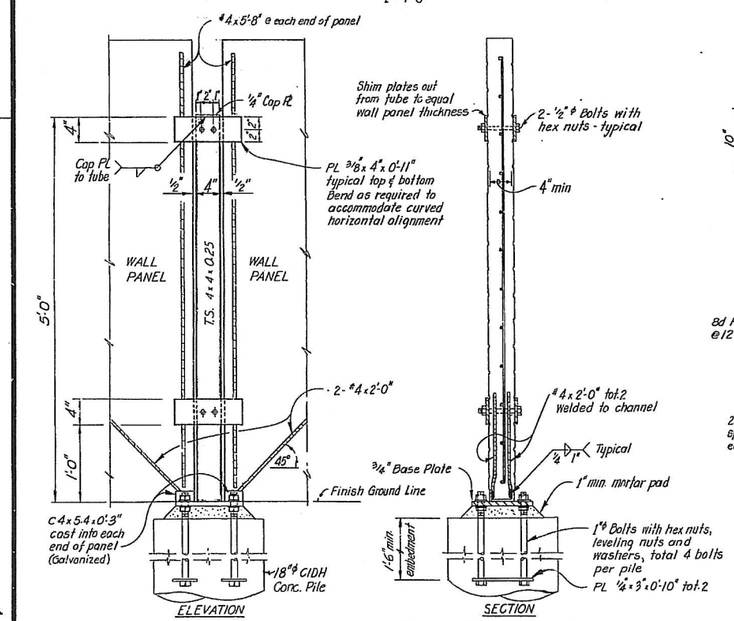


WALL ELEVATION
3/8" = 1'-0"

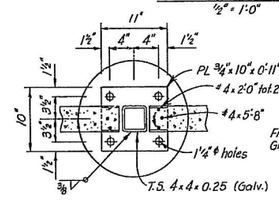
BASE PLATE PLAN
1 1/2" = 1'-0"

BASE PLATE ELEVATION
1 1/2" = 1'-0"

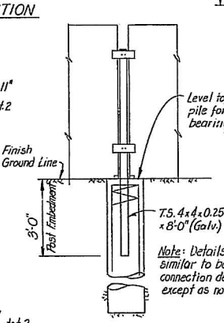
STEPPED WALL DETAILS



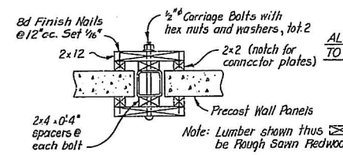
WALL PANEL TO PILE CONNECTION DETAILS
1 1/2" = 1'-0"



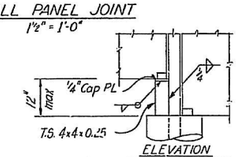
BASE PLATE PLAN
1 1/2" = 1'-0"



ALTERNATIVE WALL PANEL TO PILE CONNECTION DETAIL
1/2" = 1'-0"



WALL PANEL JOINT
1 1/2" = 1'-0"



ELEVATION
WALL STEP DETAIL FOR ALT. CONNECTION
No Scale

GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by Bridge Planning and Design Manual

WIND LOADING: 20 psf.

REINFORCED CONCRETE: fs = 30,000 psi (Welded Wire Fabric)
fs = 24,000 psi (Deformed Reinf. Bars)
fc = 1300 psi
n = 10

STRUCTURAL STEEL: fs = 20,000 psi

FOUNDATION DESIGN PARAMETER: Allowable Lateral Soil Bearing = 200 psf per foot of depth

FABRICATION: All structural steel and bolts in wall connection assemblies shall be galvanized after fabrication.

QUANTITIES (Approximate): Precast Concrete Panels:
Concrete = 1.19 c.y. per panel
Weight = 2.4 tons per panel
Reinf. Steel = 105 lbs per panel
CIDH Concrete Piles:
Concrete = 0.51 cy. per pile
Reinf. Steel = 76 lbs per pile
Structural Steel = 114 lbs per post

None
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

BRIDGE DEPARTMENT
DESIGN SECTION 13

Project Engineer			
DESIGN	In	M. Pohll	1-73
	Checked	Eleep	1-73
DETAILS	In	M. Pohll	1-73
	Checked	Eleep	1-73
QUANTITIES	In	M. Pohll	2-73
	Checked	R. Lubinski	2-73

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PRECAST SOUND BARRIER WALL
EL. 63+00 TO EL. 70+41.72
A. 277+00 TO A. 282+90.67

STRUCTURAL DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
			3	3

REVISION DATES (PRELIMINARY STAGE ONLY)
7/5/73 | 11/19/73

Disregard prints bearing earlier revision dates

ORIGINAL SCALE IN INCHES 0 1 2 3 4

WO 167621
CU 04204

AS BUILT PLANS
Contract No. 04-167621
Date Completed -
Document No. 4-CC 8132

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 TRANSPORTATION.

DATE 6/1/76 SIGNATURE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1" = 50' SCALE 1" = 20' SCALE 1" = 10' or 1" = 100' SCALE 1" = 40'