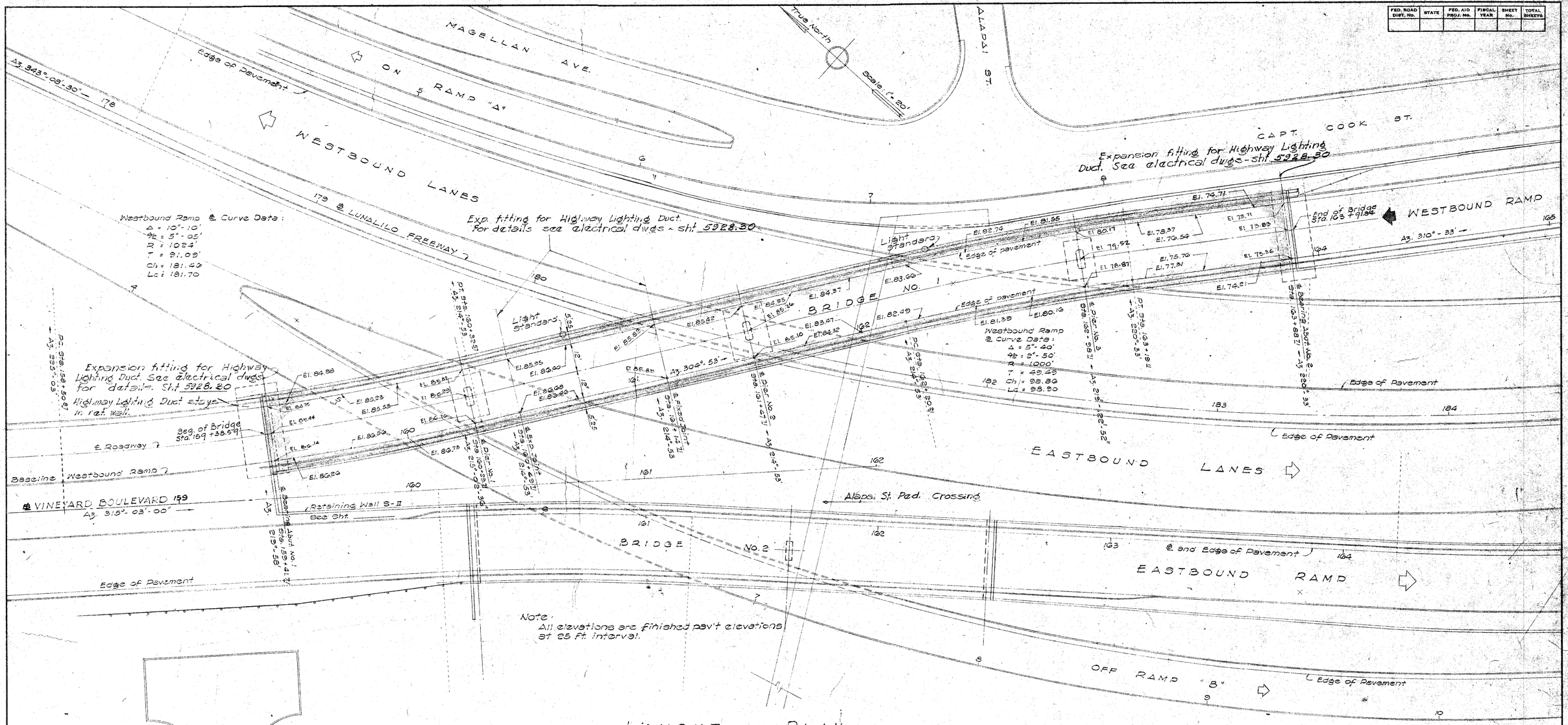
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



LAYOUT PLAN

Scale: 1" = 20'

ESTIMATED QUANTITIES

CONCRETE INCLUDING PARAPETS	LUMP SUM
REINFORCING STEEL	LUMP SUM
STRUCTURAL EXCAVATION	882 CU.YDS
A.C. MIX NO IV	78.3 TONS
FILTER MATERIAL	97.2 CU. YDS
TACK COAT	306.2 GALS
ALUMINUM RAILING	895 L.F.

GENERAL NOTES:

I. Design Data:
- (1) H20-S-16-44
- (2) fs = 20,000 PSI
- (3) fc = 1,200 PSI
- (4) n = 10
- (5) Special concrete for columns see note on Sht No 8

II Construction Methods
- (1) Backfill behind abutments & wingwalls shall be complete in place before pouring concrete for the superstructure.
- (2) Curbs and parapets shall not be poured until after release of false work
- (3) Finish — See Standard Specifications.
- (4) Form — Forms for bottom slab of box girders shall be 5 ply panel board.
- (5) Footings to be poured neat against soil.

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.585 To Sta. 163+91.835

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

SHEET No. 1 OF 22 SHEETS

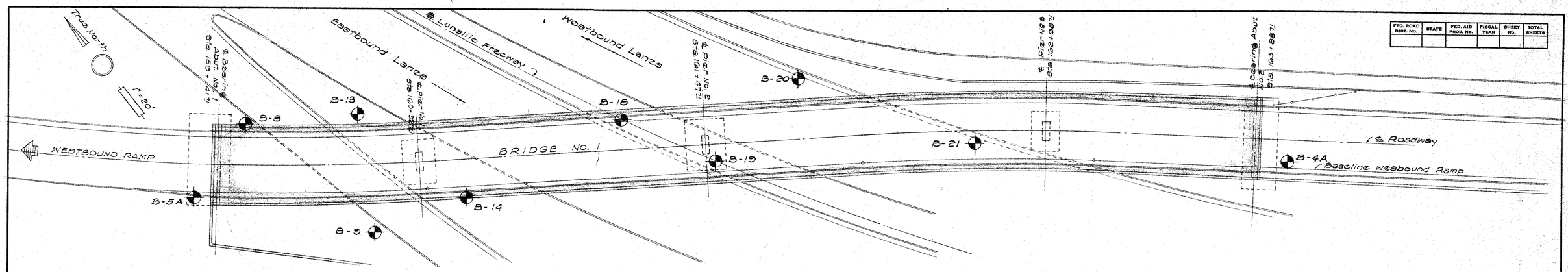
CONSULTANT SUBMISSION

5928.58

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
NOTE BOOK	CHECKED BY
No.	CHECKED BY

PRINTED ON DIEPO 1000H CLEARPRINT

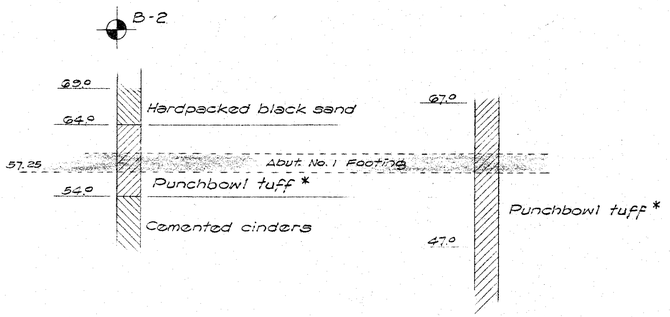
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



BORING LOCATION PLAN

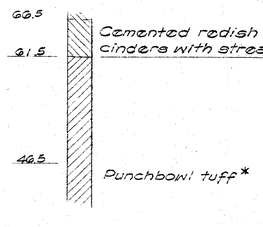
Scale: 1" = 20'

*NOTE: Punchbowl tuff as used in these plans stands for "cemented volcanic ejecta" including fines up to boulders.
Bert Hirashima



BORING No B-2

BORING No B-8



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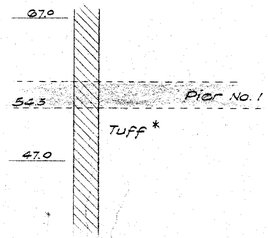

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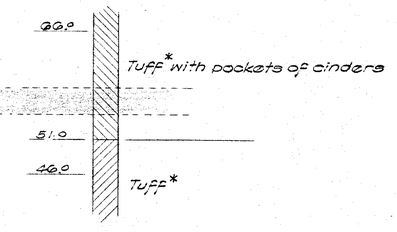

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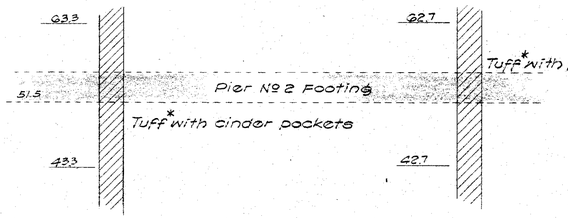
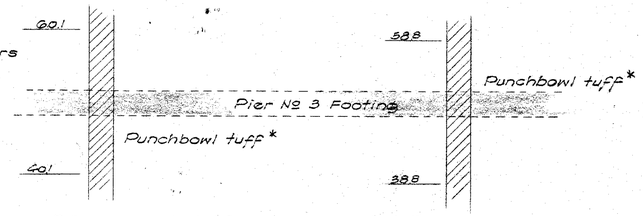
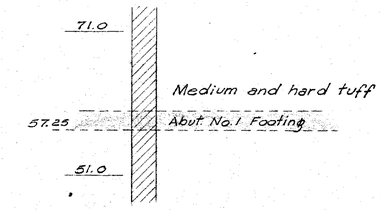


BORING No B-18

BORING No B-19



BORING No B-20 BORING No B-21



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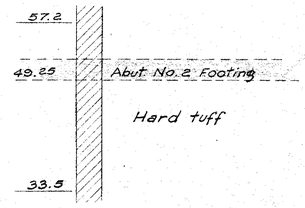

BORING No B-4A

BORING DATA

Scale: 1" = 10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK No.	TRACED BY	
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ALFRED A. YEE REGISTERED STRUCTURAL ENGINEER No. 718 HAWAII, U.S.A.

SATOSHI DON SHIMAZU REGISTERED PROFESSIONAL ENGINEER No. 710 HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No 1

Base Line Sta. 159+38.39 to Sta. 163+88.71

VINEYARD BOULEVARD
PROJECT No F-095-1: (3)

SHEET No. 2 OF 22 SHEETS

CONSULTANT SUBMISSION

5928.59

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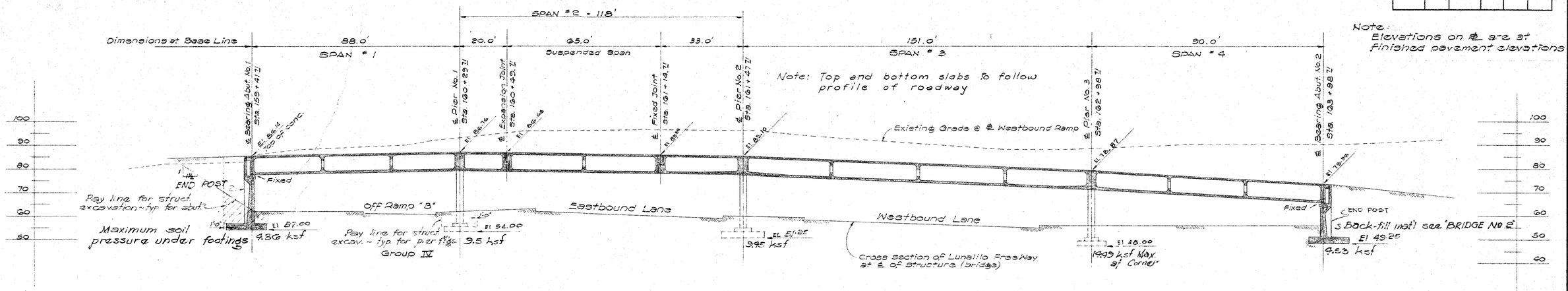
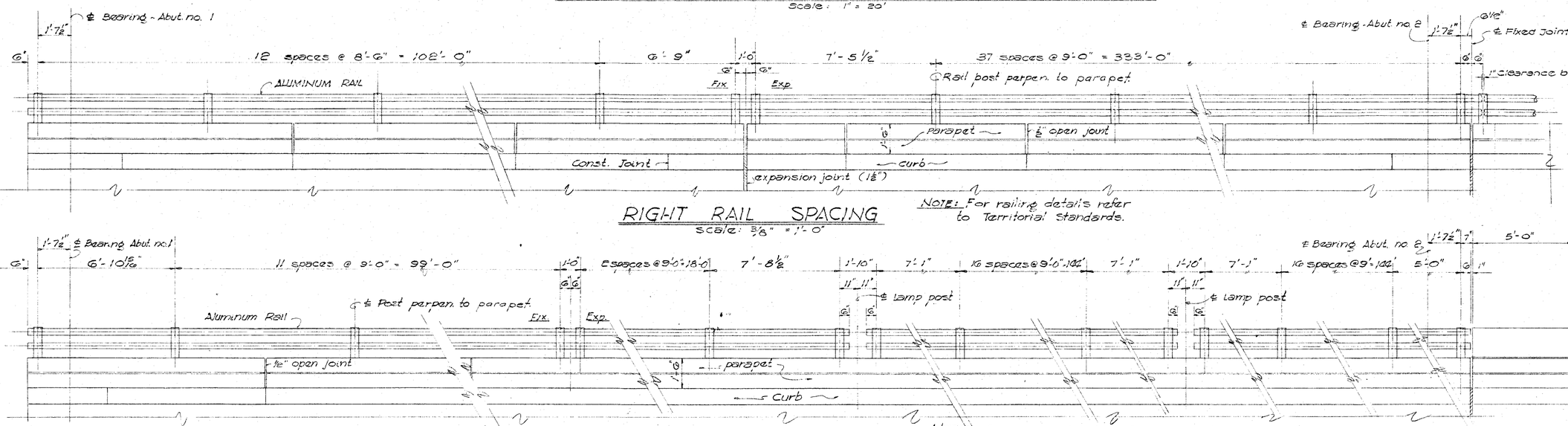
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



LONGITUDINAL SECTION ALONG ℄ ROADWAY

Scale: 1" = 20'



RIGHT RAIL SPACING

Scale: 3/8" = 1'-0"

Note: For railing details refer to Territorial Standards.

LEFT RAIL SPACING

Scale: 3/8" = 1'-0"

Note: for railing details refer to Territorial Standards.

NOTE:
Rail spacing is based on the inside face of the parapet.

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DESIGNED BY
DRAWN BY
TRACED BY
QUANTITIES BY
QUANTITIES CHECKED BY
CHECKED BY
DATE

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

SHEET No. 3 OF 22 SHEETS

CONSULTANT SUBMISSION

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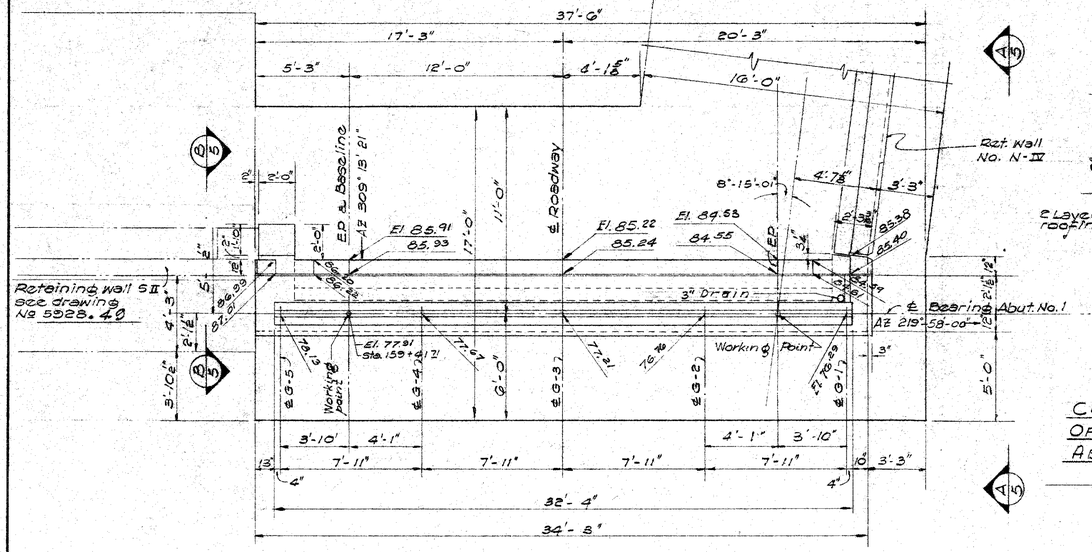
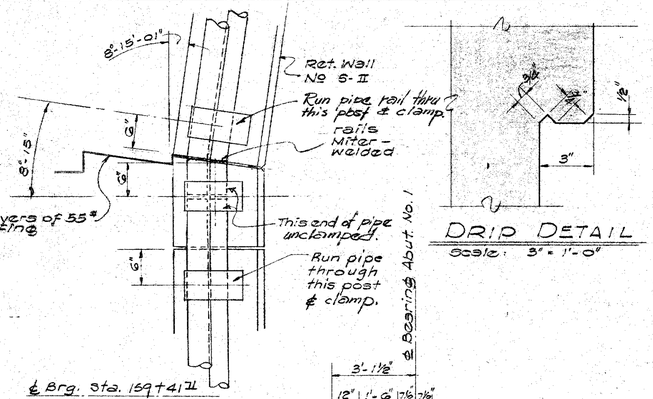
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



PLAN - ABUT. No. 1
Scale: ½" = 1'-0"



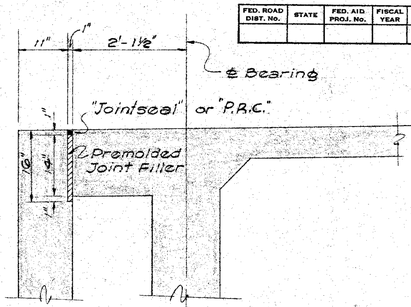
DRIP DETAIL
Scale: 3" = 1'-0"

CONNECTION PLAN DETAIL OF ALUMINUM RAILING AT ABUTMENT No. 1

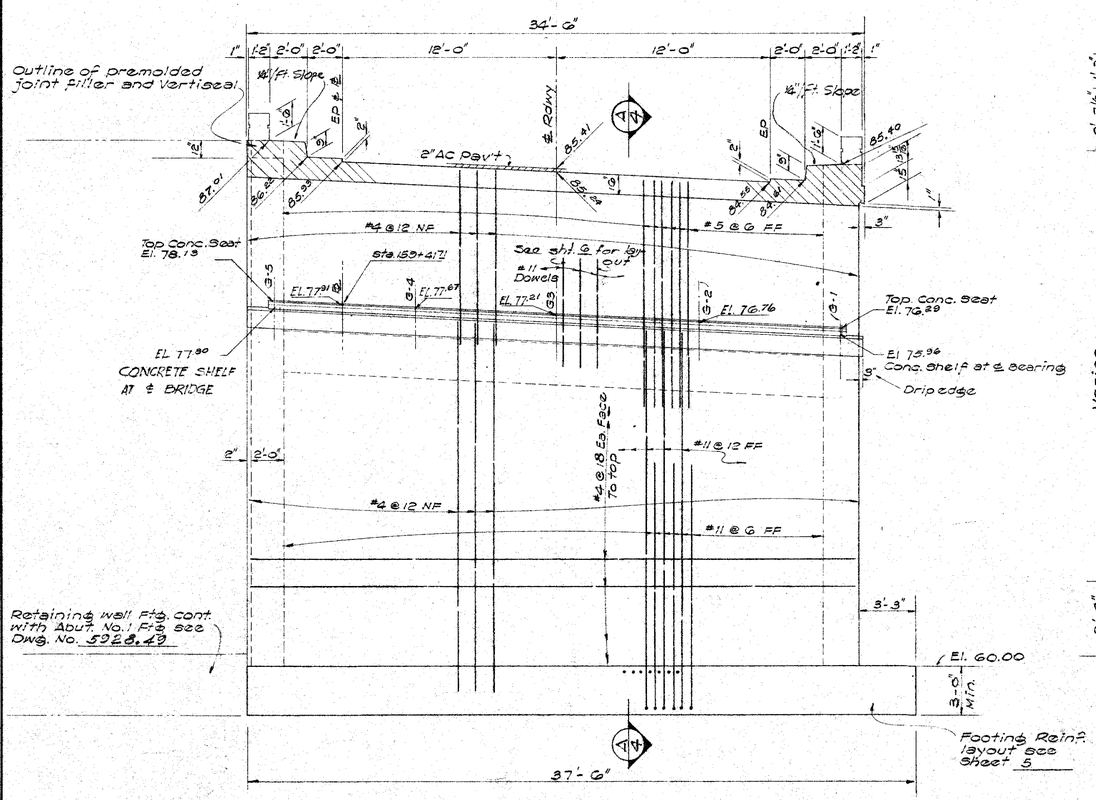
℄ Brg. Sta. 159+41.21

4'x ¾" Continuous rolled lead ℞. Spaces between lead plate and dowels shall be filled with molten lead.

SECTION A/4
Scale 3/8" = 1'-0"



DETAIL A/4
Scale 3/4" = 1'-0"



ELEVATION - ABUT. No. 1
Scale: ½" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

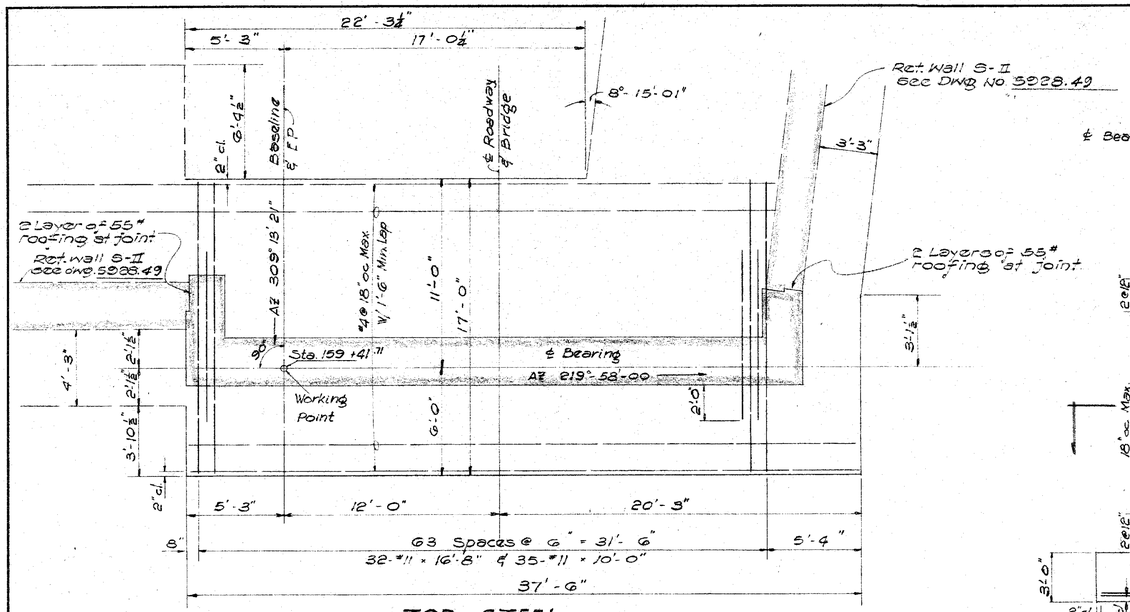
ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

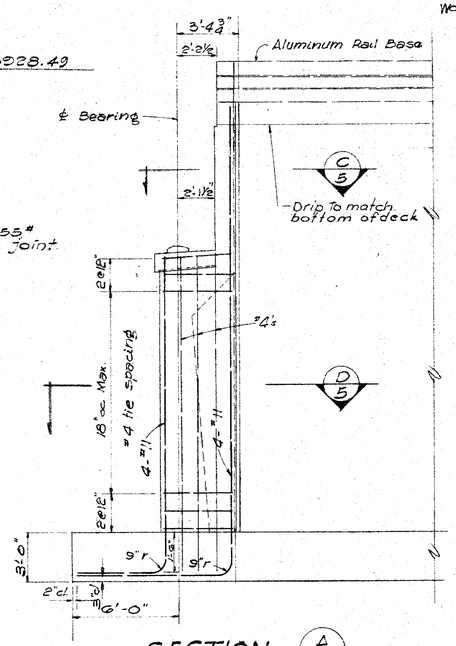
SHEET No. 4 OF 22 SHEETS

CONSULTANT SUBMISSION

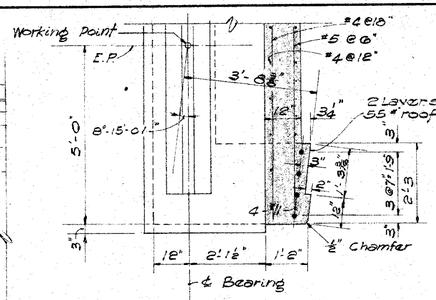
5928.61



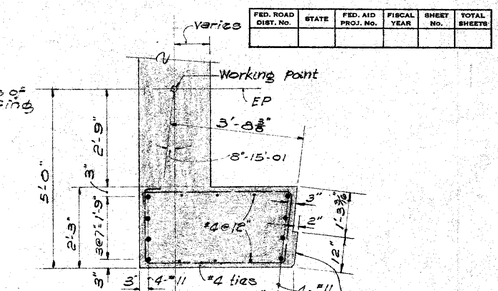
TOP STEEL



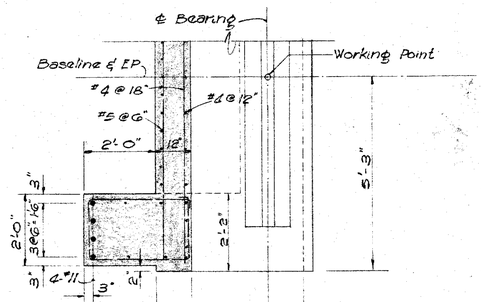
SECTION A/5 — Scale: ¼" = 1'-0" — See sht. 4



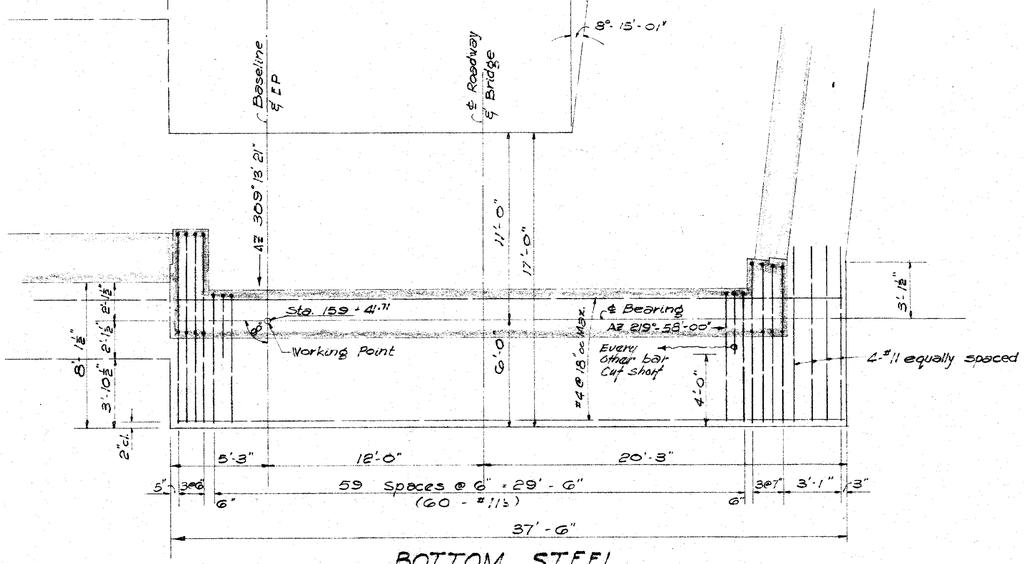
SECTION C/5 — scale: ½" = 1'-0"



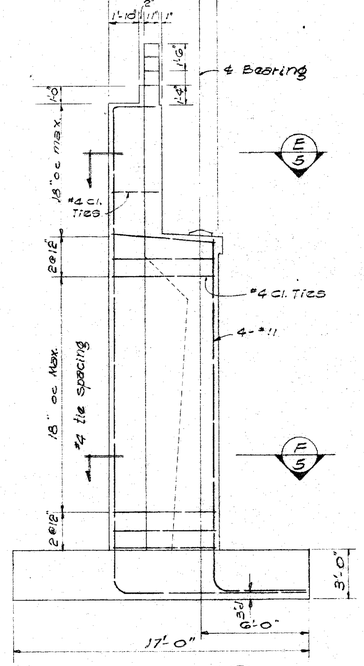
SECTION D/5 — scale: ½" = 1'-0"



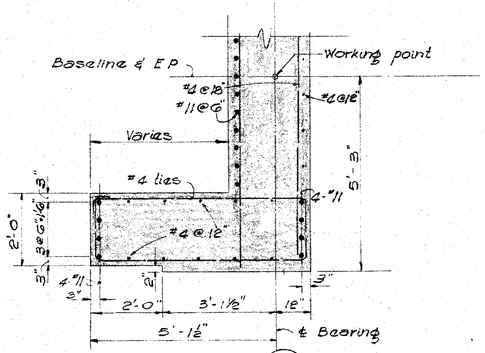
SECTION E/5 — scale: ½" = 1'-0"



BOTTOM STEEL



SECTION B/5 — scale: ¼" = 1'-0" — See sht. 4



SECTION F/5 — scale: ½" = 1'-0"

ABUTMENT NO 1 FOOTING STEEL PLAN

scale ¼" = 1'-0"

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK	TRACED BY	
	QUANTITIES BY	
No.	CHECKED BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No 1

Base Line Sta. 159+38.58 to Sta. 163+91.89

VINEYARD BOULEVARD
PROJECT No. F-058-1-(3)

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

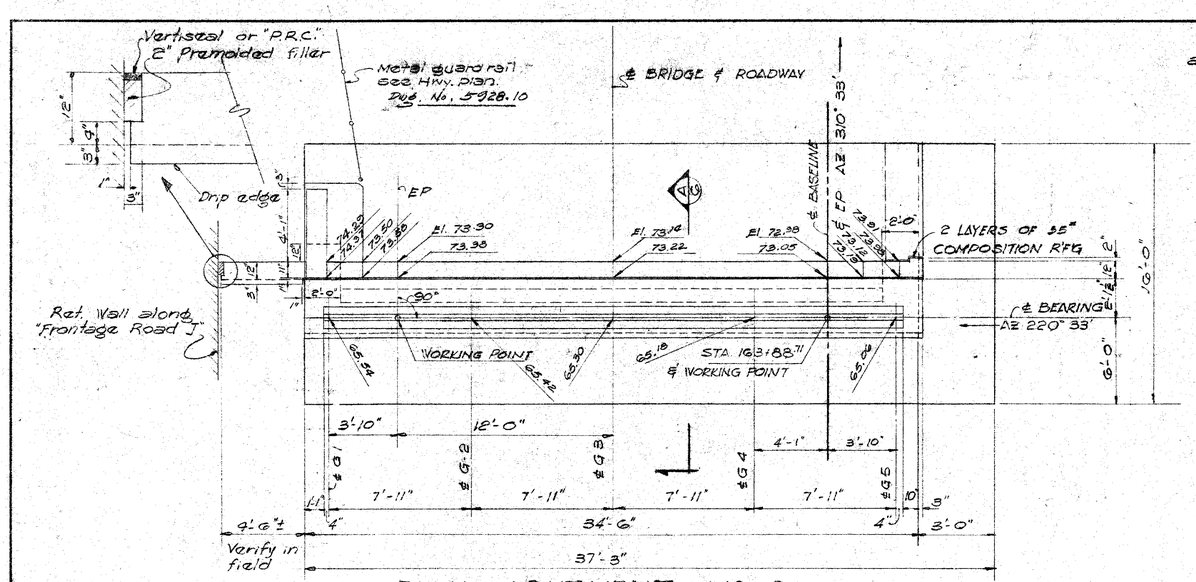
SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

SHEET No. 5 OF 22 SHEETS

CONSULTANT SUBMISSION

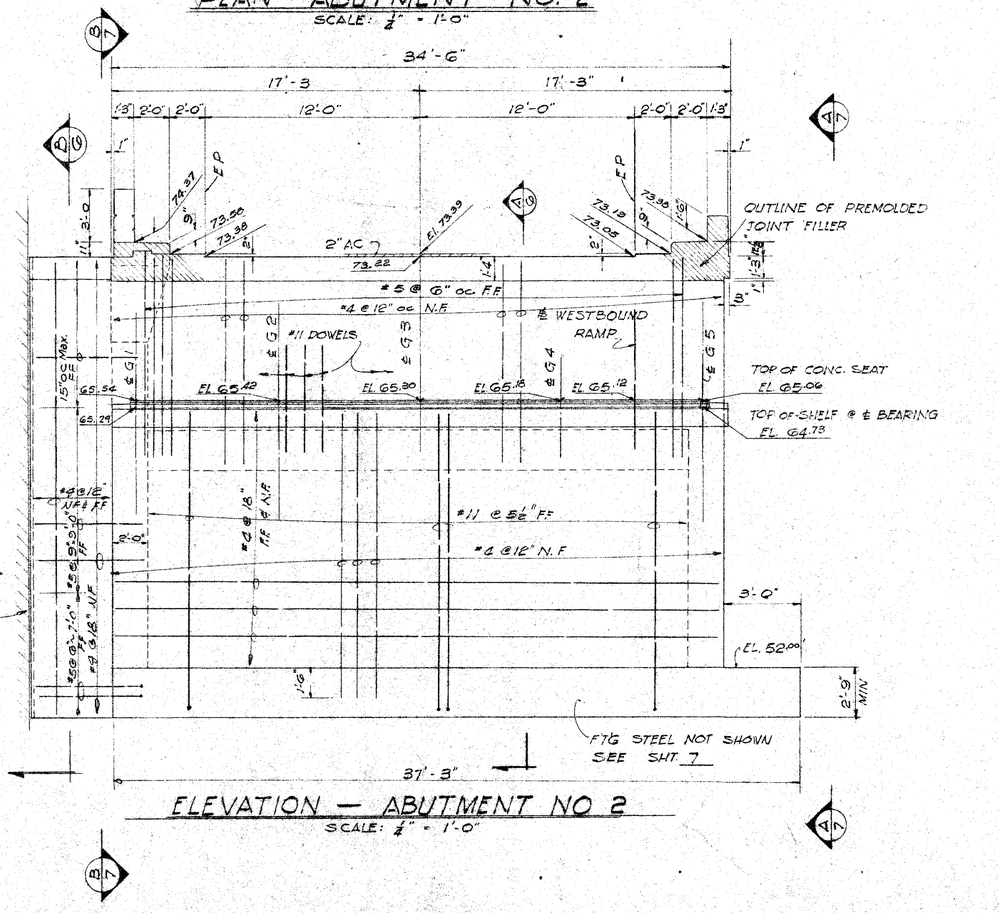
5928.62

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



PLAN ~ ABUTMENT NO. 2

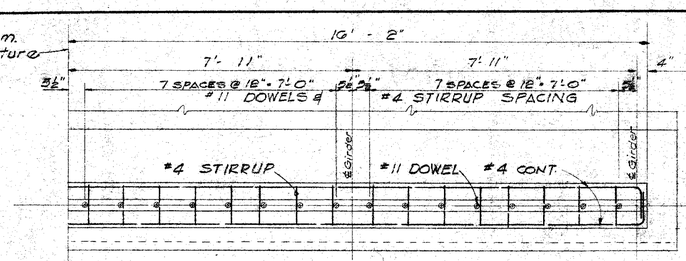
SCALE: 1/2" = 1'-0"



ELEVATION — ABUTMENT NO 2

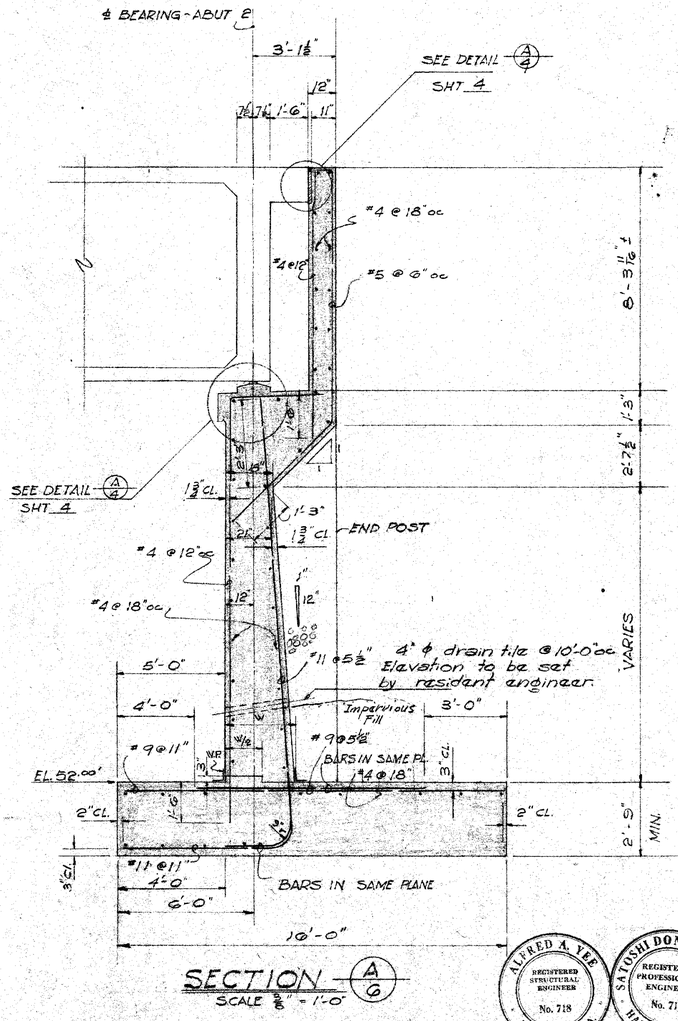
SCALE: 1/4" = 1'-0"

Reinf. Symm. about ℄ Structure



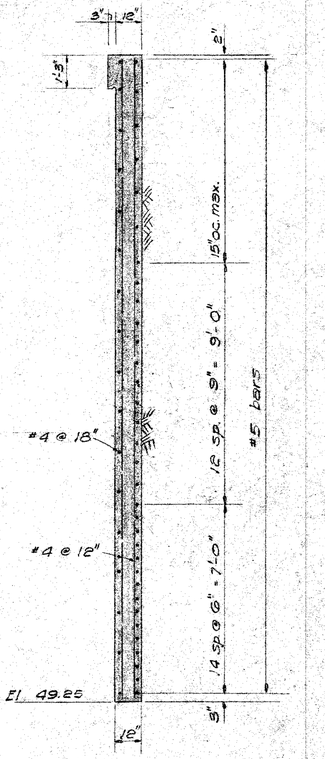
#11 DOWELS @ #4 STIRRUP LAYOUT PLAN ABUTMENT NO 1 & 2

SCALE 1/2" = 1'-0"



SECTION A/6

SCALE 3/8" = 1'-0"



SECTION B/6

SCALE: 3/8" = 1'-0"

ORIGINAL PLAN

SURVEY PLOTTED BY	DATE
DESIGNED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
QUANTITIES CHECKED BY	
CHECKED BY	
NOTE BOOK No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.29 to Sta. 163+91.49

VINEYARD BOULEVARD
PROJECT NO. F-098-1(3)

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

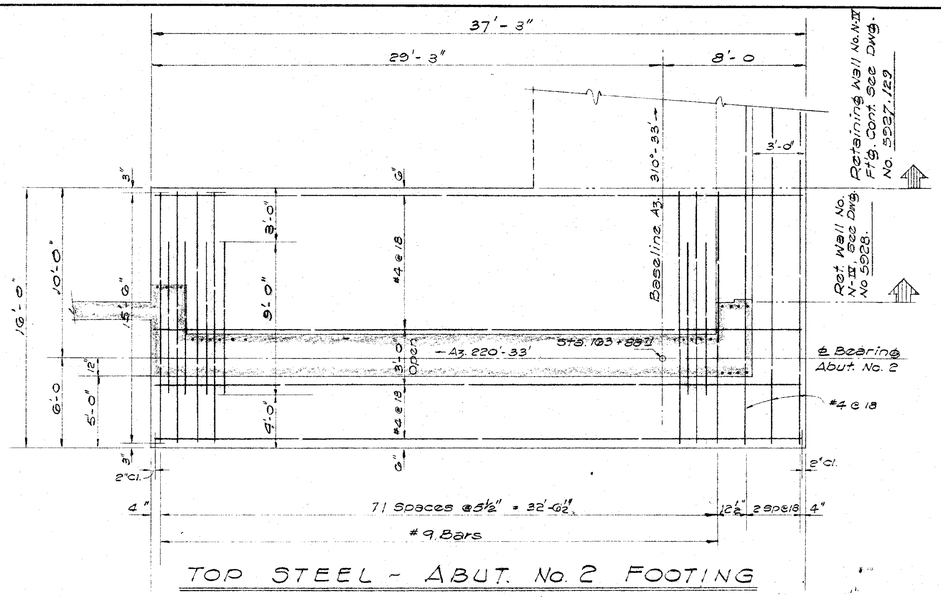
SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

CONSULTANT SUBMISSION

SHEET No. 6 OF 22 SHEETS

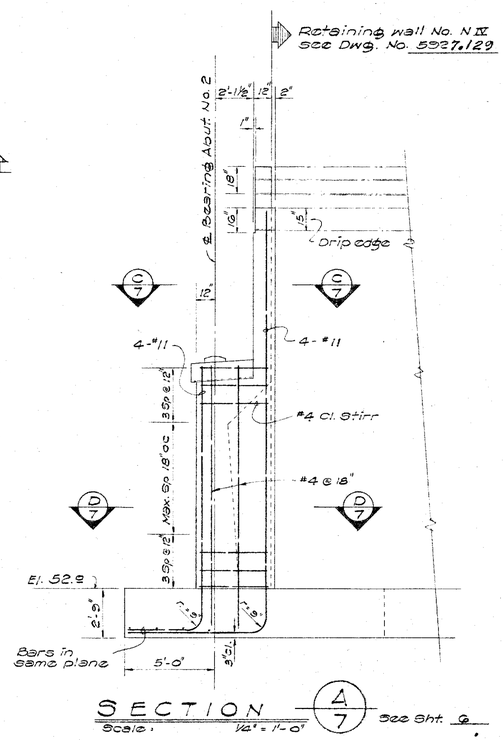
5928.63 (72)

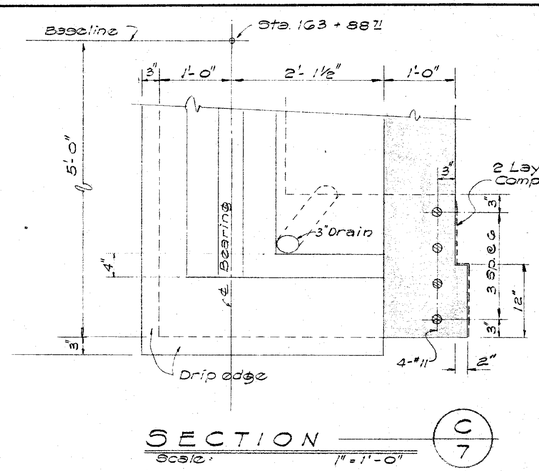
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

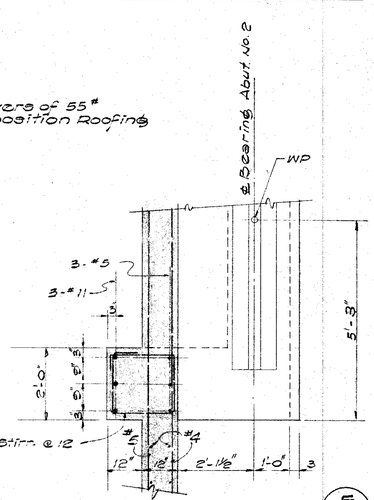


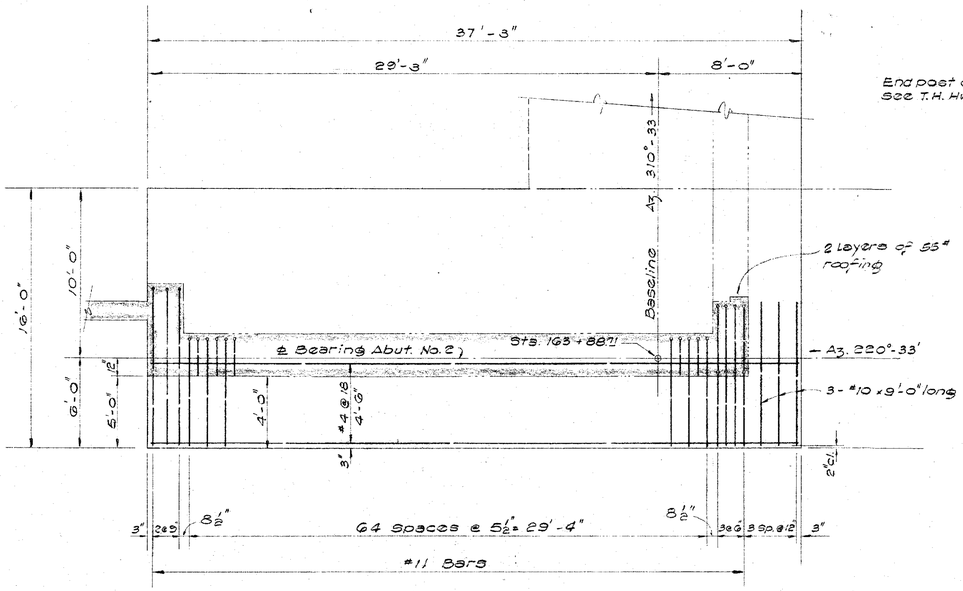
TOP STEEL - ABUT. No. 2 FOOTING

Scale: ¼" = 1'-0"



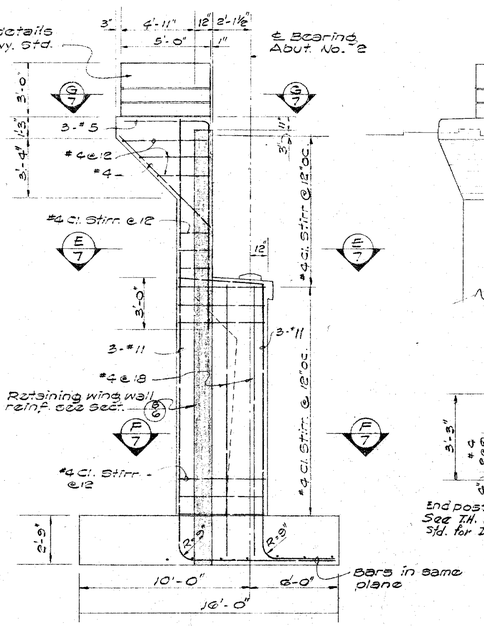


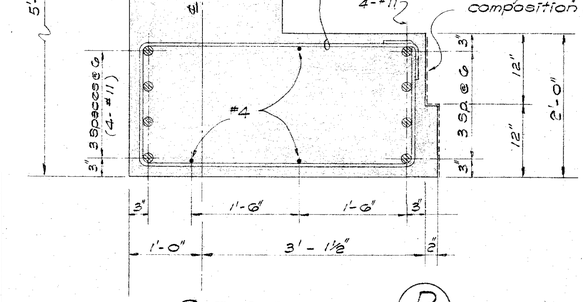


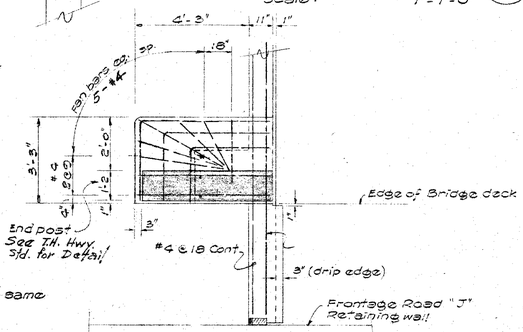


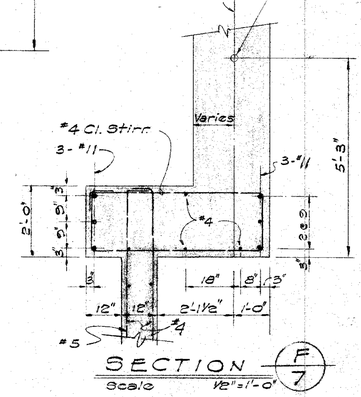
BOT. STEEL - ABUT. No. 2 FOOTING

Scale: ½" = 1'-0"









ORIGINAL PLAN	SURVEY PLOTTED BY:	DATE:
	DESIGNED BY:	
	DRAWN BY:	
NOTE BOOK No.	TRACED BY:	
	QUANTITIES CHECKED BY:	
	CHECKED BY:	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.88

VINEYARD BOULEVARD
PROJECT NO. F-038-1-(8)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

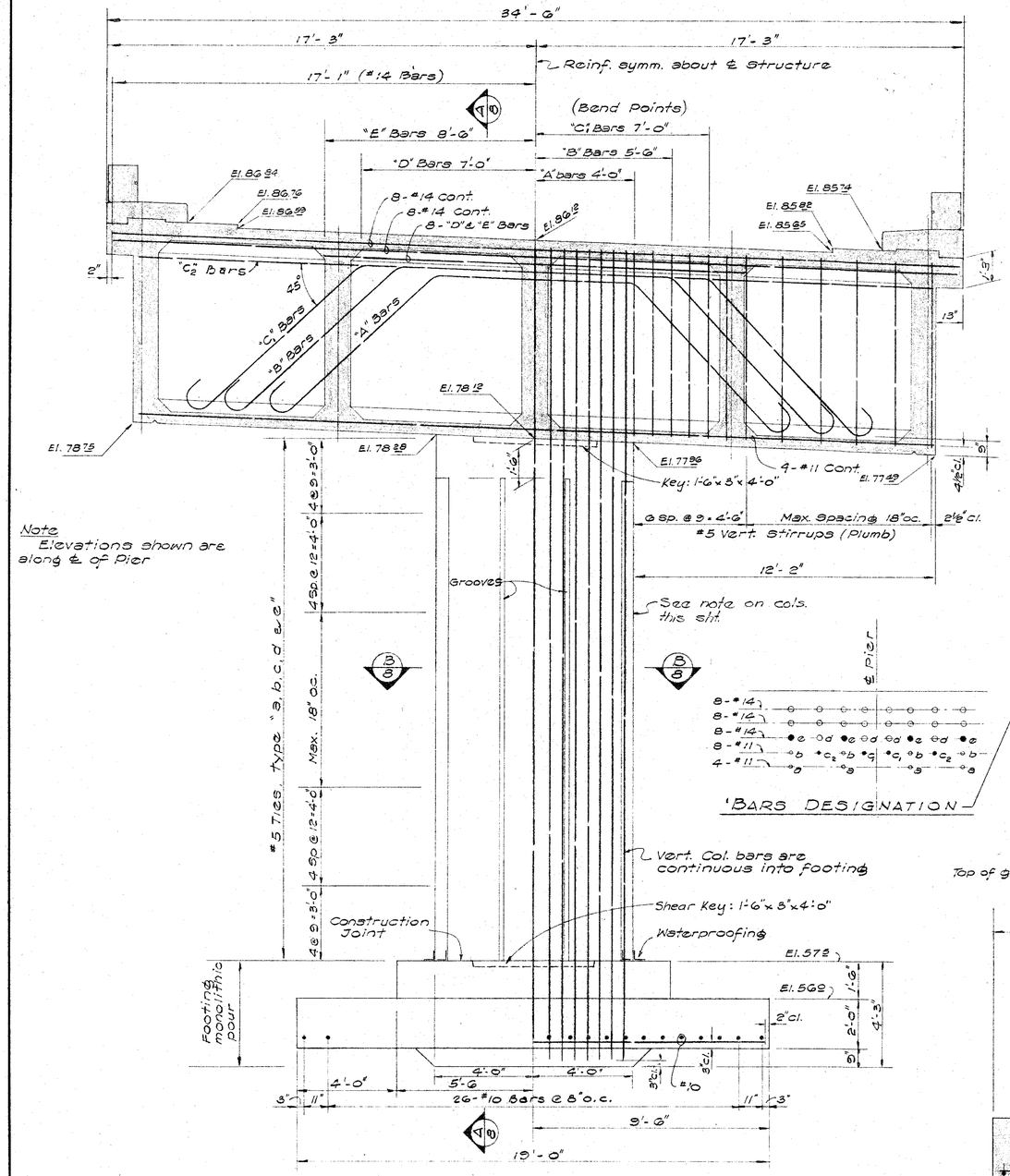
SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

SHEET No. 7 OF 22 SHEETS

CONSULTANT SUBMISSION

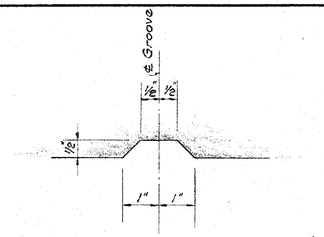
5928.64

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

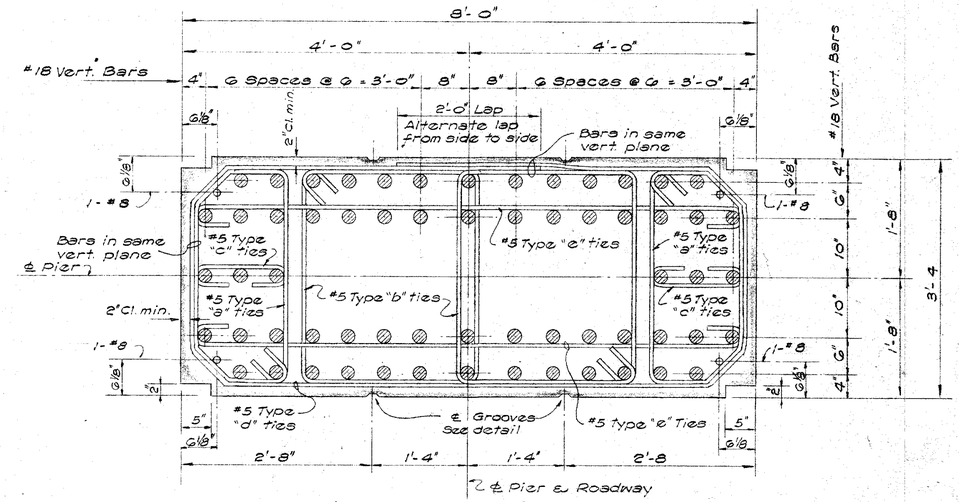


Note
Elevations shown are along ℄ of Pier

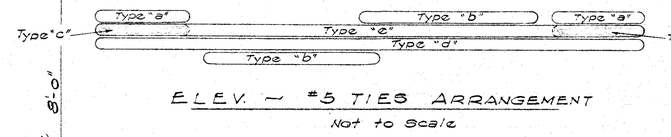
ELEVATION — PIER No 1
Scale: 3/8"=1'-0"



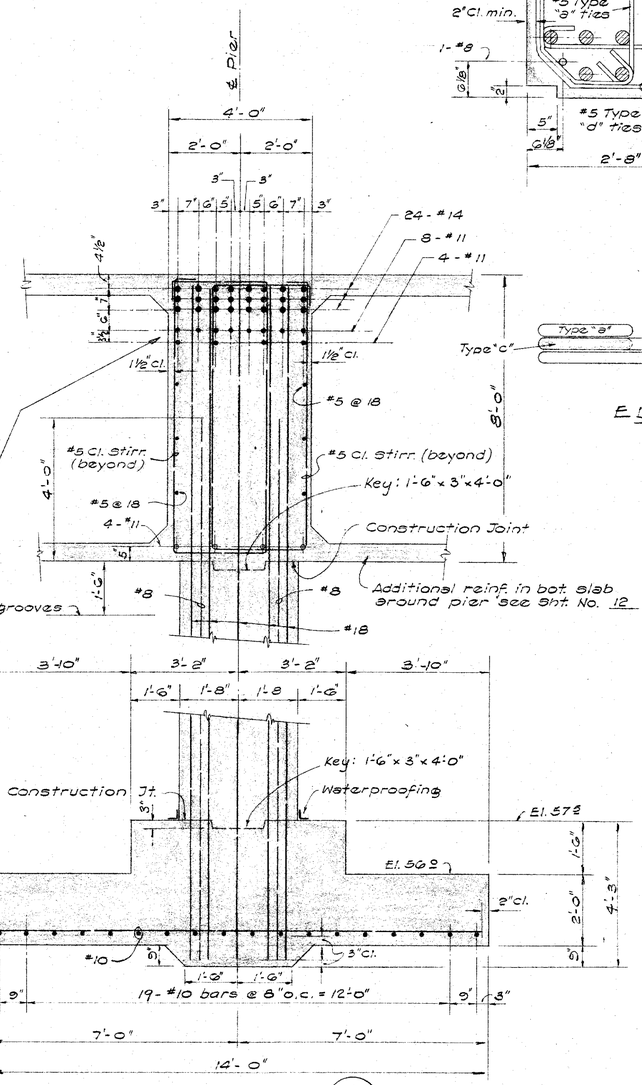
COL. GROOVE DETAIL
Half Size



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



ELEV. — #5 TIES ARRANGEMENT
Not to Scale



SECTION A/B
Scale: 1/8"=1'-0"

BARS DESIGNATION

NOTES:
CONCRETE FOR COLUMNS
Quality — 4,000 Psi. (T.H. Class F-1)
Slump — 3½" Maximum

ORIGINAL PLAN	
	SURVEY PLOTTED BY:
	DESIGNED BY:
	DRAWN BY:
	TRACED BY:
	QUANTITIES BY:
NOTE BOOK No.	QUANTITIES CHECKED BY:
	CHECKED BY:
	DATE:

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

SATOSHI DON SHIMABUKURO
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No 1

Base Line Sta. 159+38.58 to Sta. 163+21.83

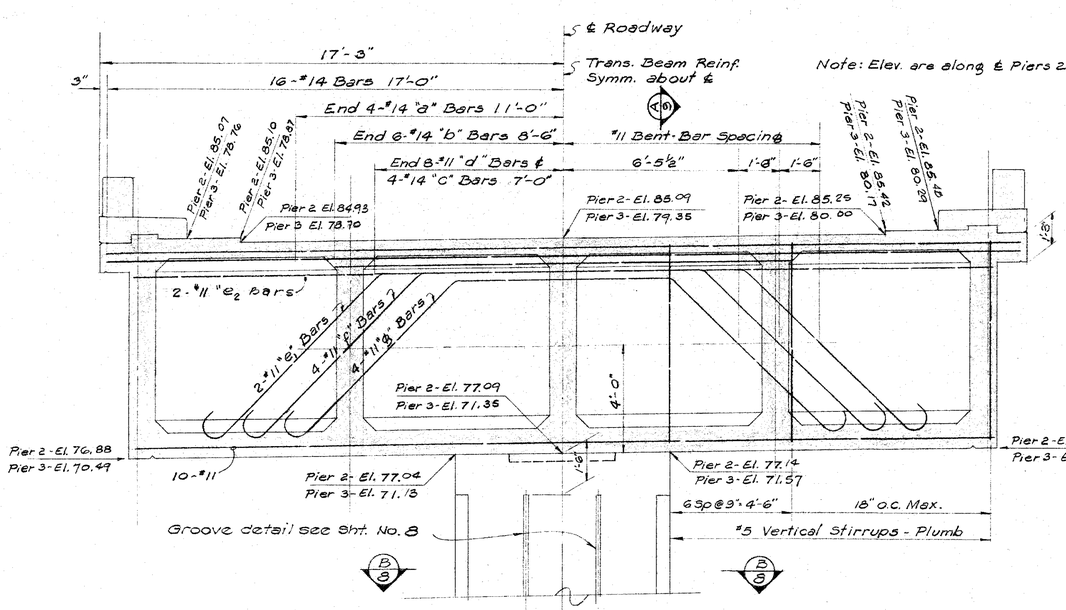
VINEYARD BOULEVARD
PROJECT No F-098-1-(3)

SHEET No. 8 OF 22 SHEETS

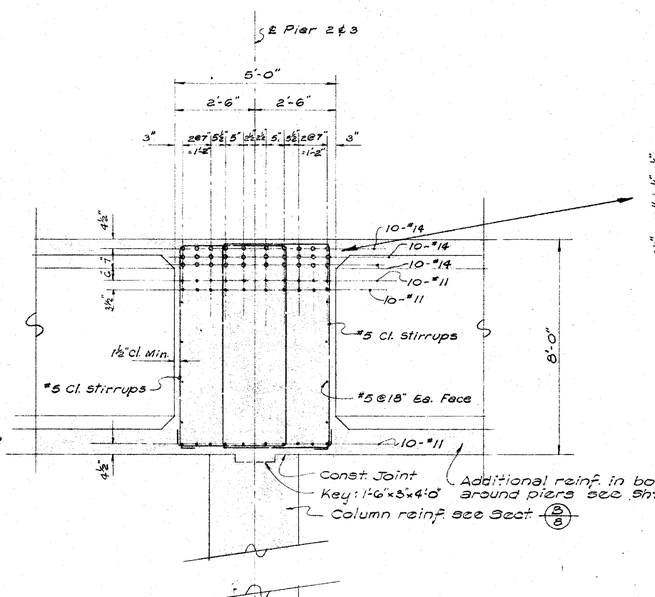
CONSULTANT SUBMISSION

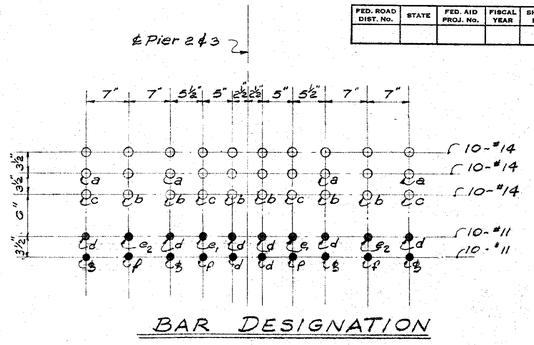
5928.65

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

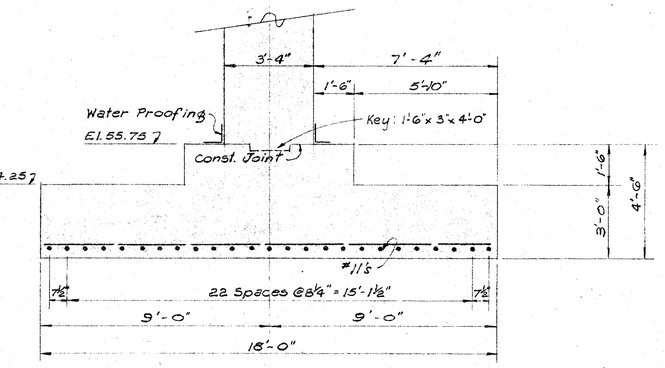


FOOTING - PIER 2

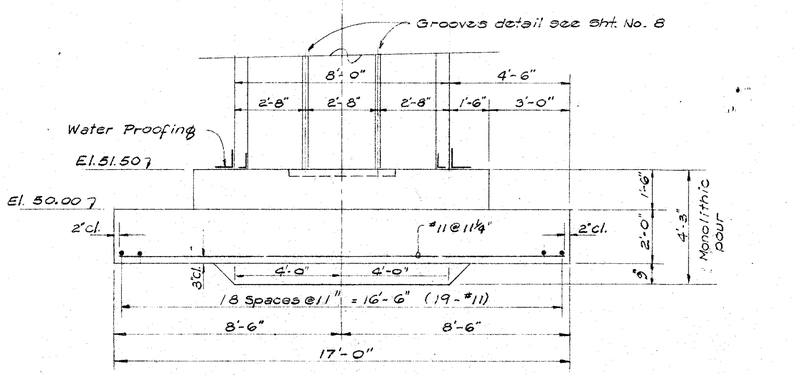




BAR DESIGNATION



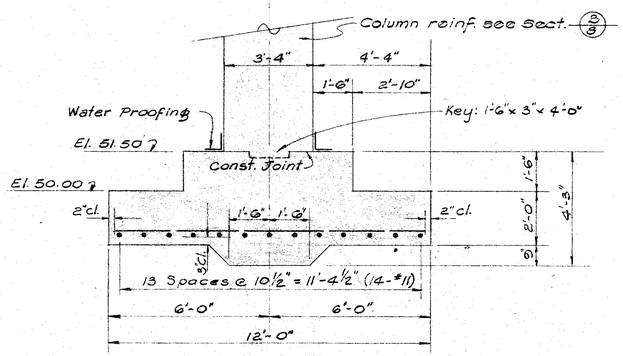
FOOTING - PIER 2



FOOTING - PIER 3

ELEVATION PIER 2 & 3

Scale: 3/8" = 1'-0"



FOOTING - PIER 3

SECTION A/9

Scale: 3/8" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
	TRACED BY	
NOTE BOOK	QUANTITIES BY	
No.	QUANTITIES CHECKED BY	
	CHECKED BY	

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 7.0 — HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.59 to Sta. 163+91.83

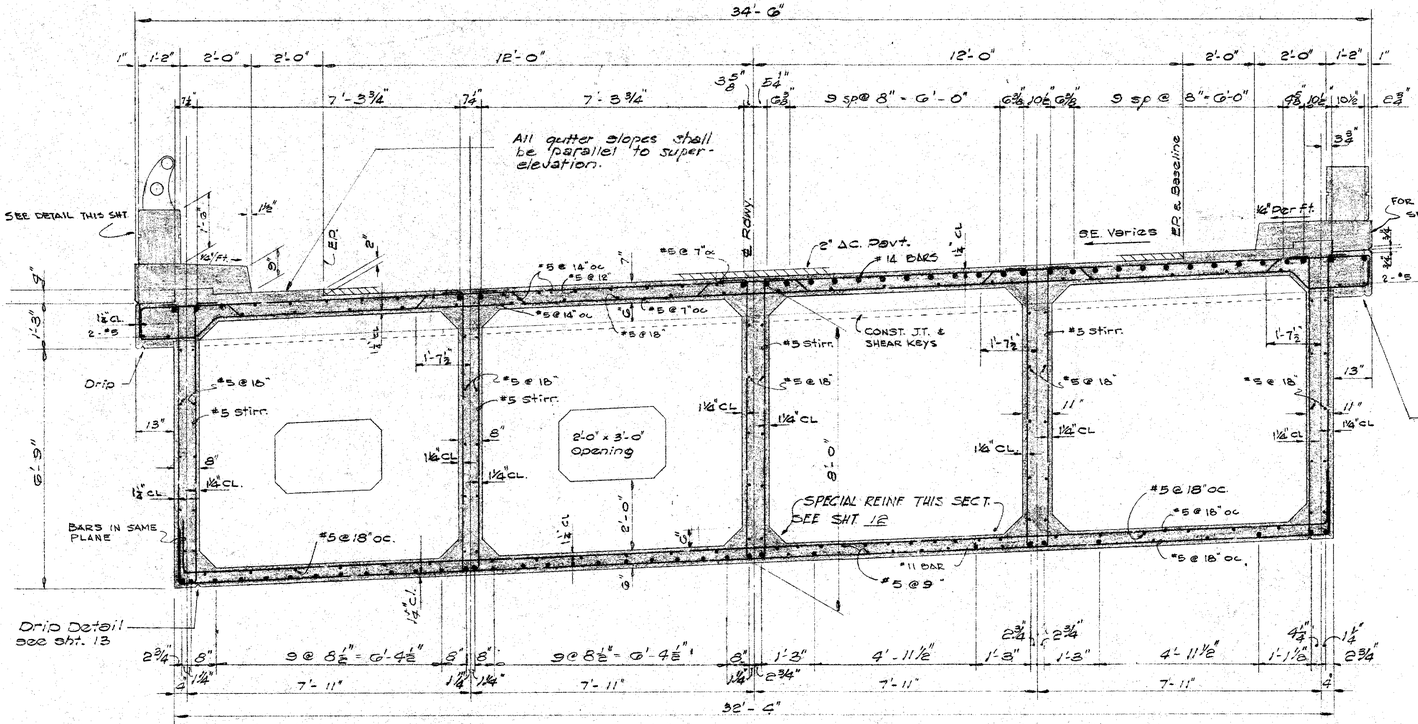
VINEYARD BOULEVARD
PROJECT No F-098-1-(3)

SHEET No. 9 OF 22 SHEETS

CONSULTANT SUBMISSION

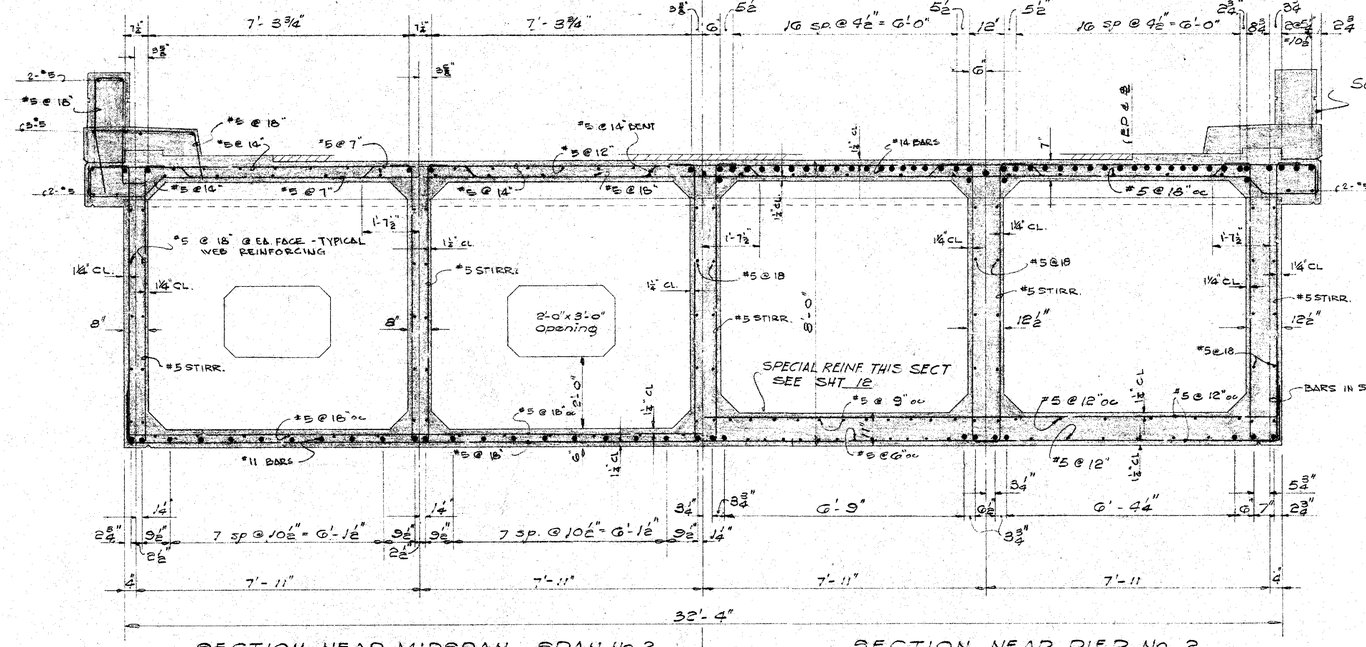
5928.66

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



SECTION NEAR MIDSPAN - SPAN No. 1

SECTION NEAR PIER No. 1

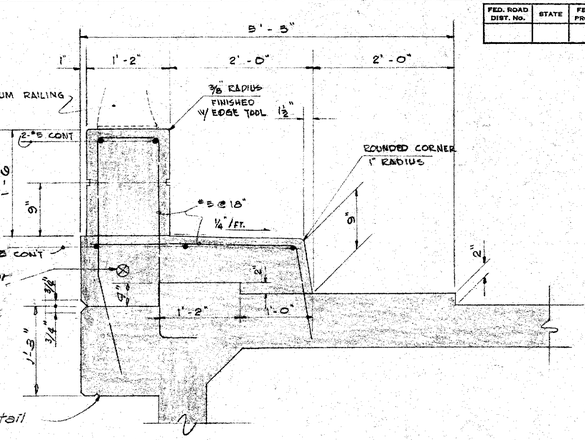


SECTION NEAR MIDSPAN - SPAN No. 2

SECTION NEAR PIER No. 2

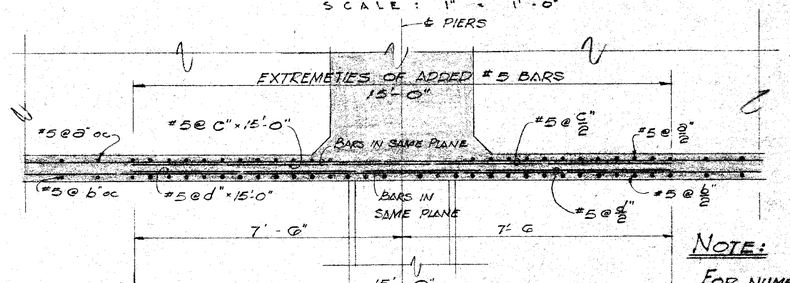
NORMAL SECTIONS

Scale: ½" = 1'-0"



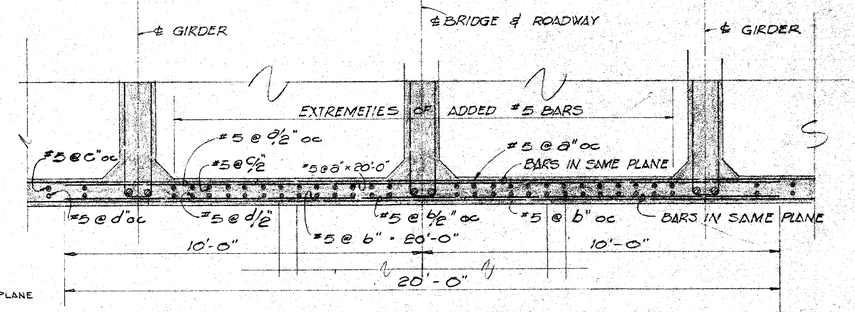
POST & CURB DETAIL — TYPICAL

SCALE: 1" = 1'-0"



NOTE:

FOR NUMERICAL SPACING SEE "SPACING SCHEDULE" BELOW



SPECIAL REINF. OF BOTTOM SLAB AROUND COLUMNS

NOT TO SCALE

SPACING SCHEDULE:

PIER 1

a = b = 18" a/2 = b/2 = 9"

c = d = 18" c/2 = d/2 = 9"

PIER 2 & 3

a = b = 12" a/2 = b/2 = 6"

c = 18" c/2 = 9" d = 12" d/2 = 6"

THE EXTREMETIES OF #5 @ a" & b" oc (12" oc) SHALL BE CARRIED OUT FOR A DISTANCE OF 10'-0" FROM ℄ PIER (BOTH WAYS) - THEN USE #5 @ 18" oc TOP & BOT. FACE.

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 713 — HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE NO. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT NO. F-098-1-(3)

SHEET NO. 12 OF 22 SHEETS

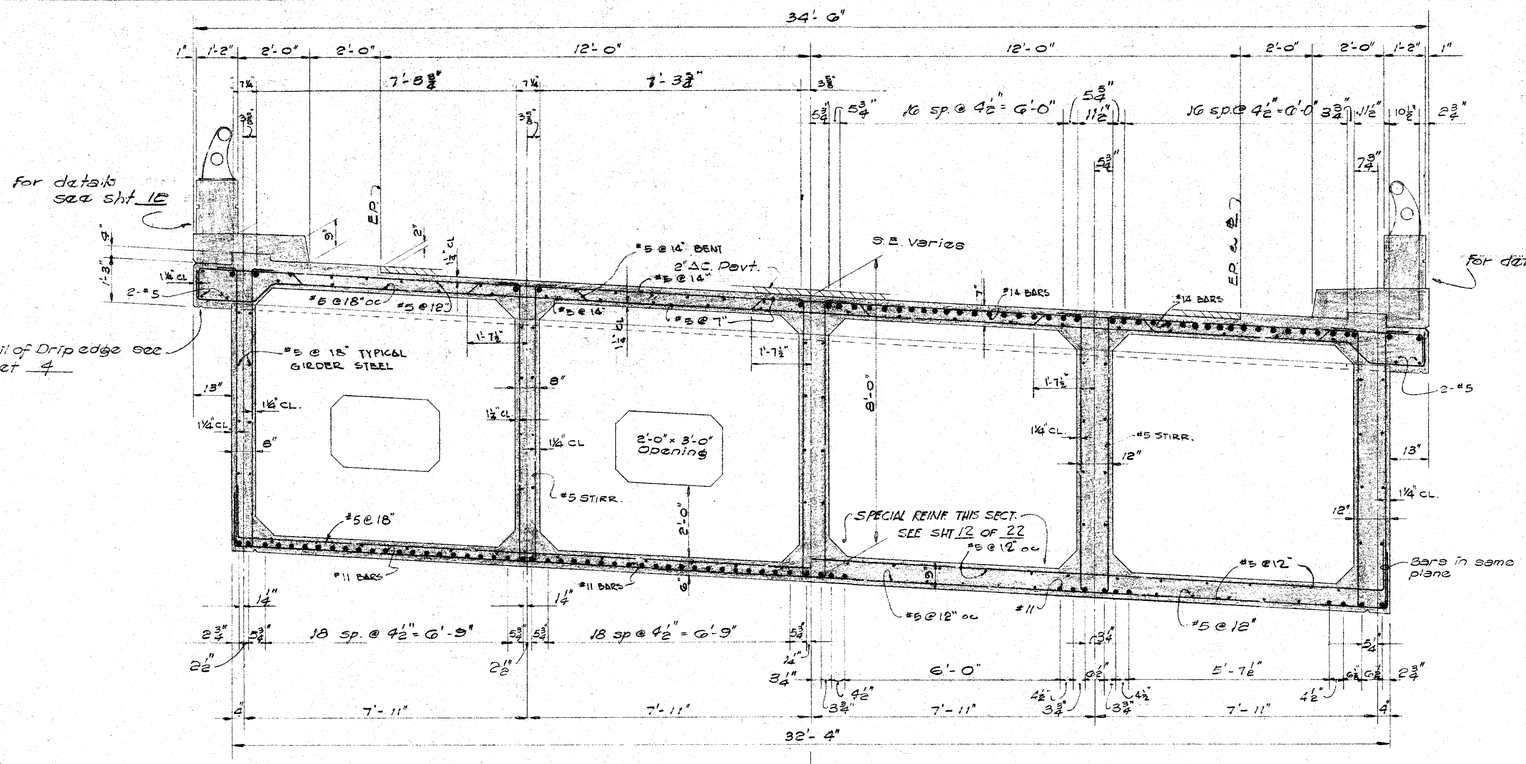
CONSULTANT SUBMISSION

5928.69

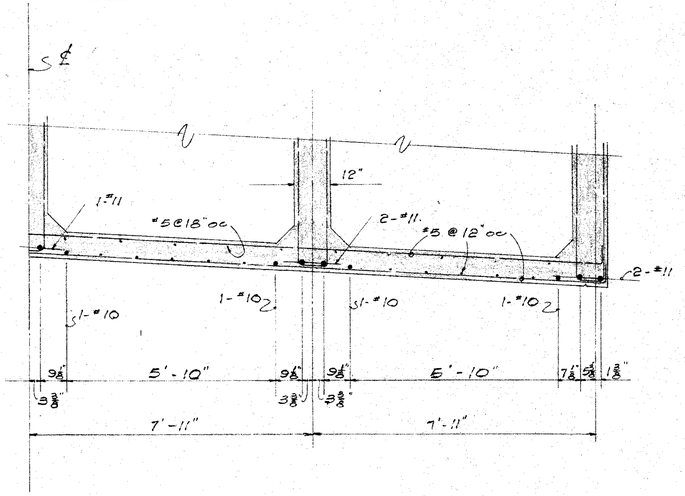
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK No.	TRACED BY	
	QUANTITIES BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

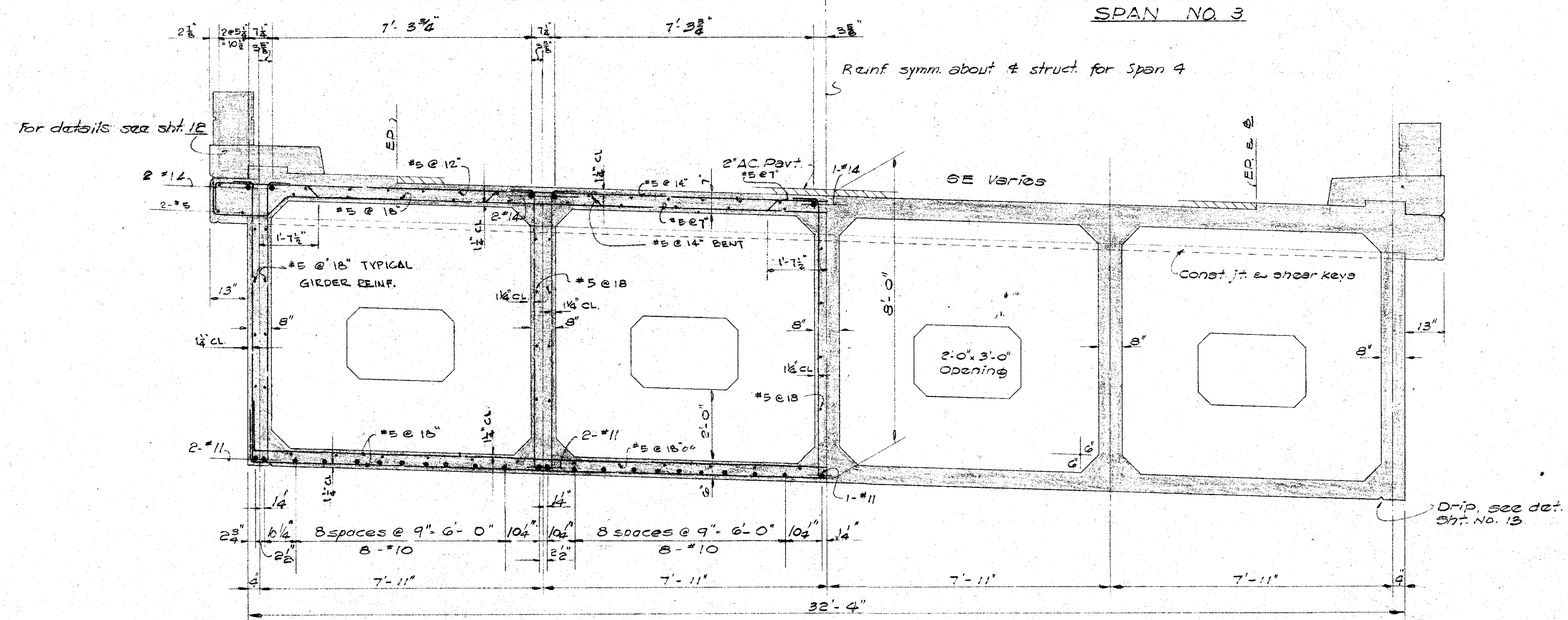
NOTE!
Gutters on each side of bridge shall be sloped parallel to Superelevation of deck.



SECTION NEAR MIDSPAN - SPAN No. 3



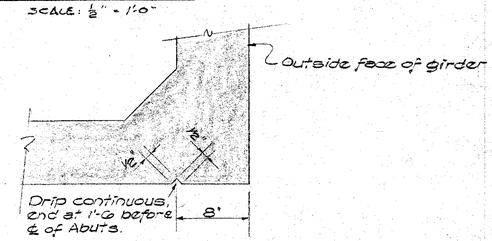
QUARTER SECTION NEAR PIER NO. 3
SPAN NO. 4
SCALE: 1/2" = 1'-0"



SECTION NEAR MIDSPAN - SPAN No. 4

SECTION NEAR PIER No. 3
SPAN NO. 3

NORMAL SECTIONS
Scale: 1/2" = 1'-0"



TYPICAL BOTTOM FLANG DRIP DETAIL
Scale 1 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK	TRACED BY	
	QUANTITIES CHECKED BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT NO. F-098-1-(3)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

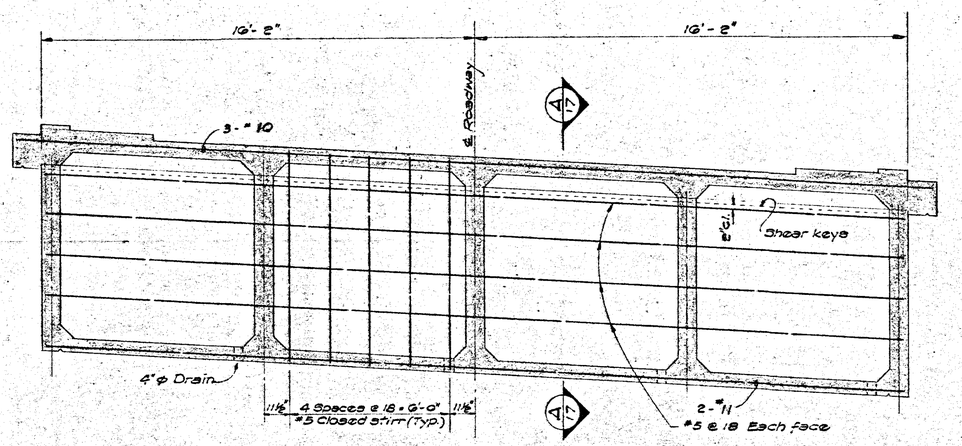
SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

SHEET No. 13 OF 22 SHEETS

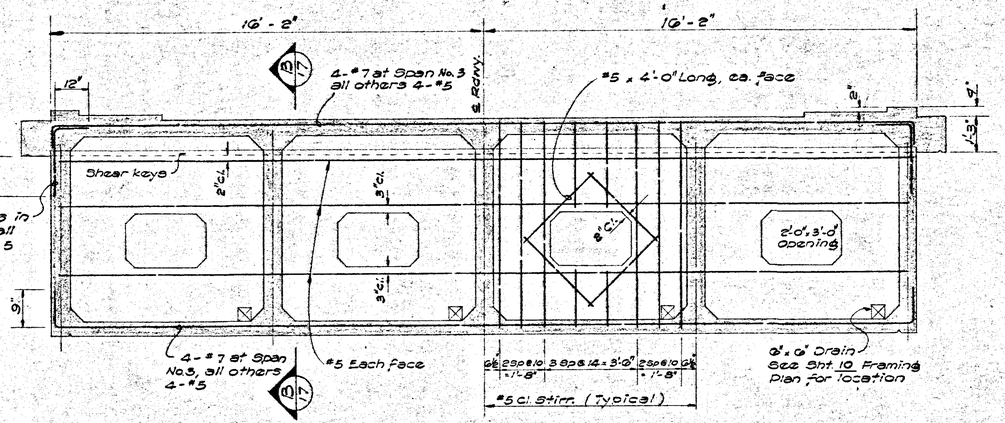
CONSULTANT SUBMISSION

5928.70

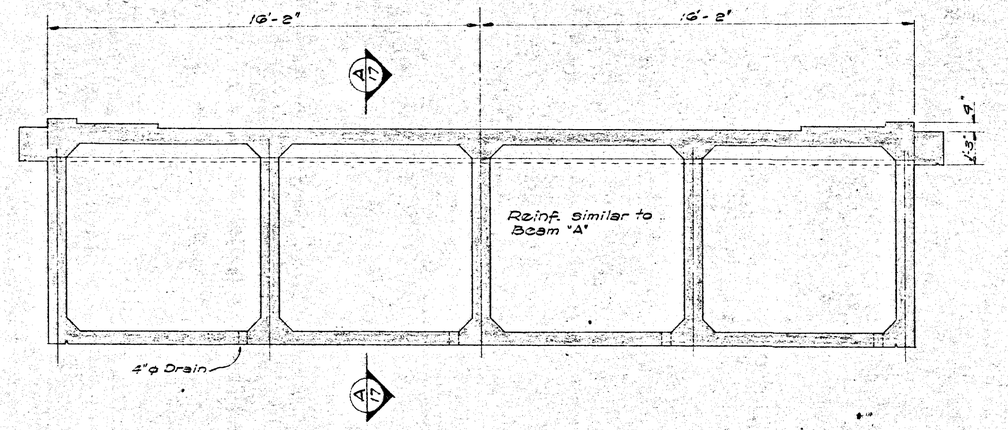
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



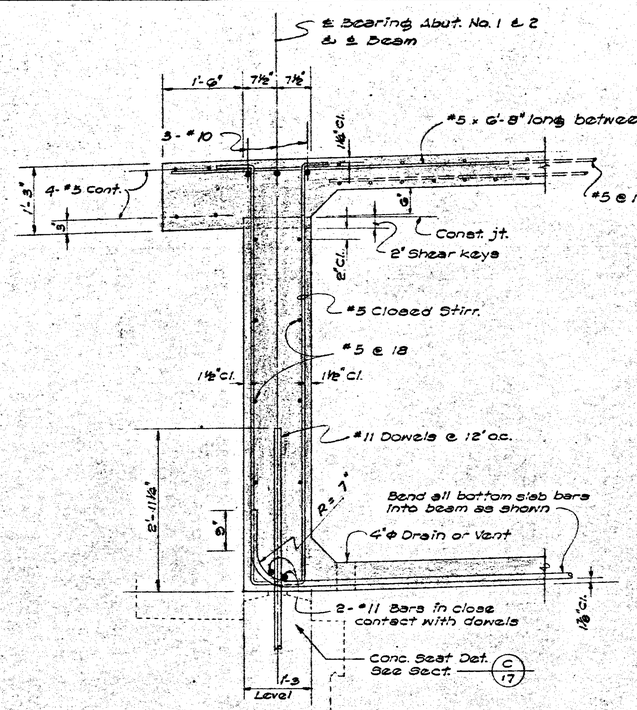
BEAM "A"
Scale: 3/8" = 1'-0"



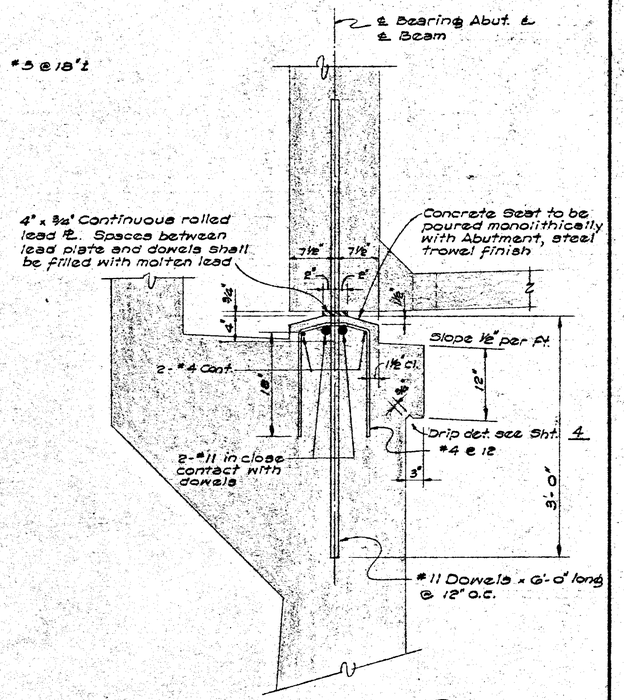
BEAM "B"
Scale: 3/8" = 1'-0"



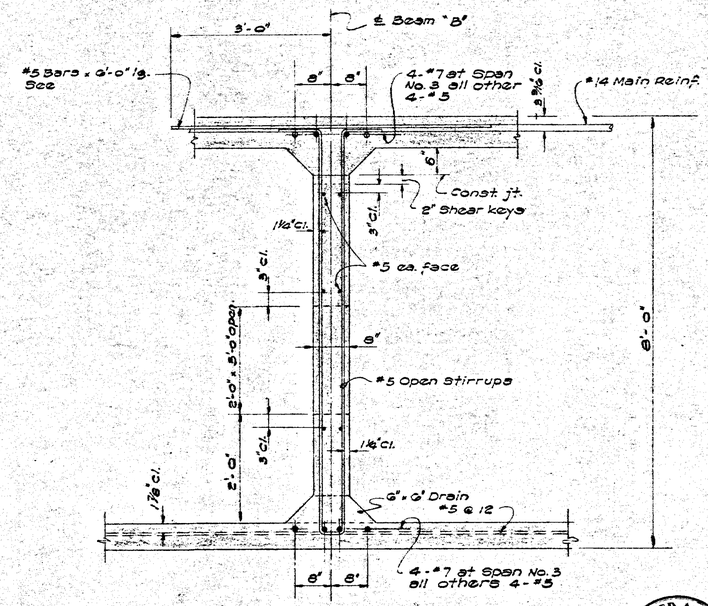
BEAM "H"
Scale: 3/8" = 1'-0"



SECTION A 17
Scale: 3/4" = 1'-0"



SECTION C 17
Scale 1" = 1'-0"



SECTION B 17
Scale: 3/4" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
	TRACED BY	
NOTE BOOK No.	QUANTITIES BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE NO. 1

Base Line Sta 159+38.58 to Sta. 160+19.83

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

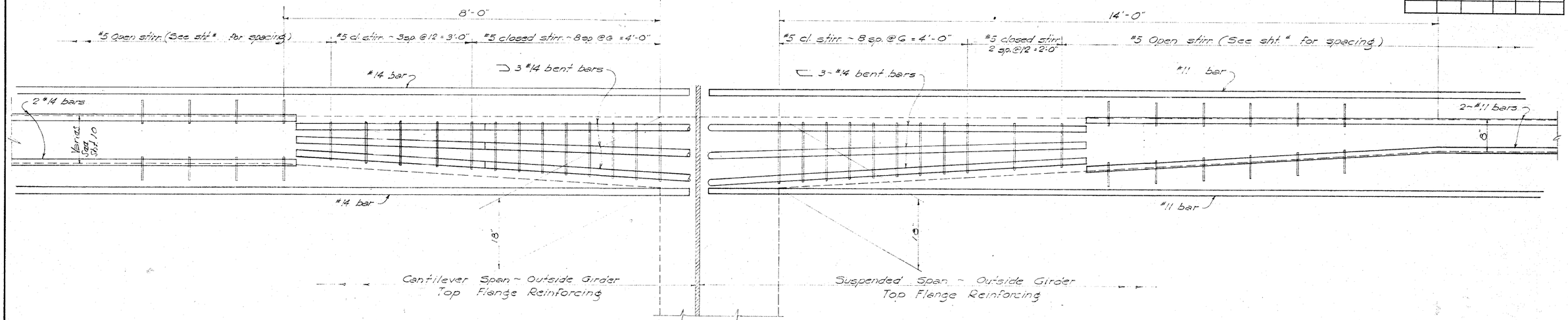
SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 716
HAWAII U.S.A.

SHEET No. 17 OF 22 SHEETS

CONSULTANT SUBMISSION

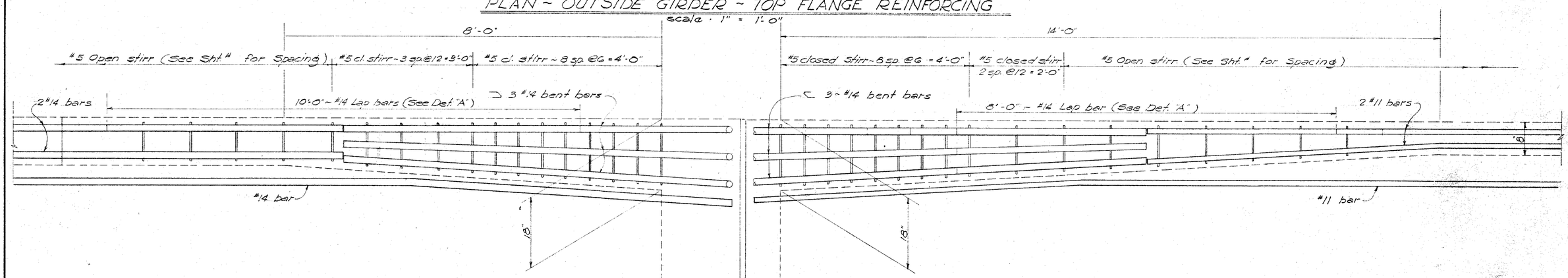
5928.74

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



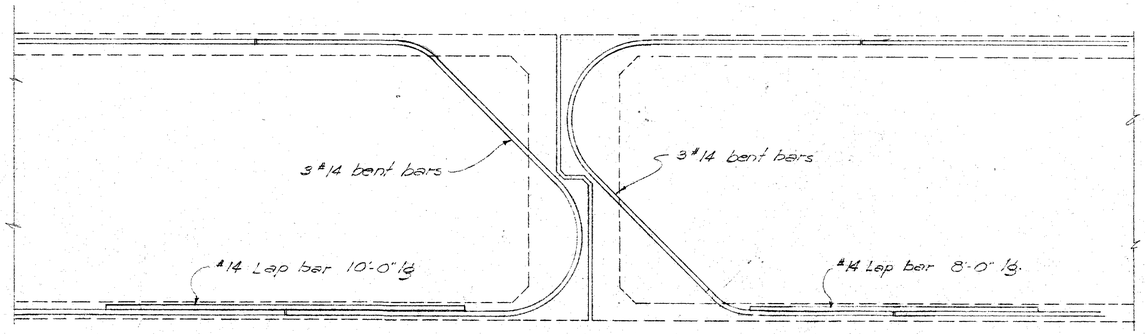
PLAN ~ OUTSIDE GIRDER ~ TOP FLANGE REINFORCING

scale : 1" = 1'-0"



PLAN ~ OUTSIDE GIRDER ~ BOTTOM FLANGE REINFORCING

scale : 1" = 1'-0"



DETAIL "A"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK	TRACED BY	
	QUANTITIES CHECKED BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE #1
Base Line Sta. 159+38.38 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT No. F-058-1-(3)

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

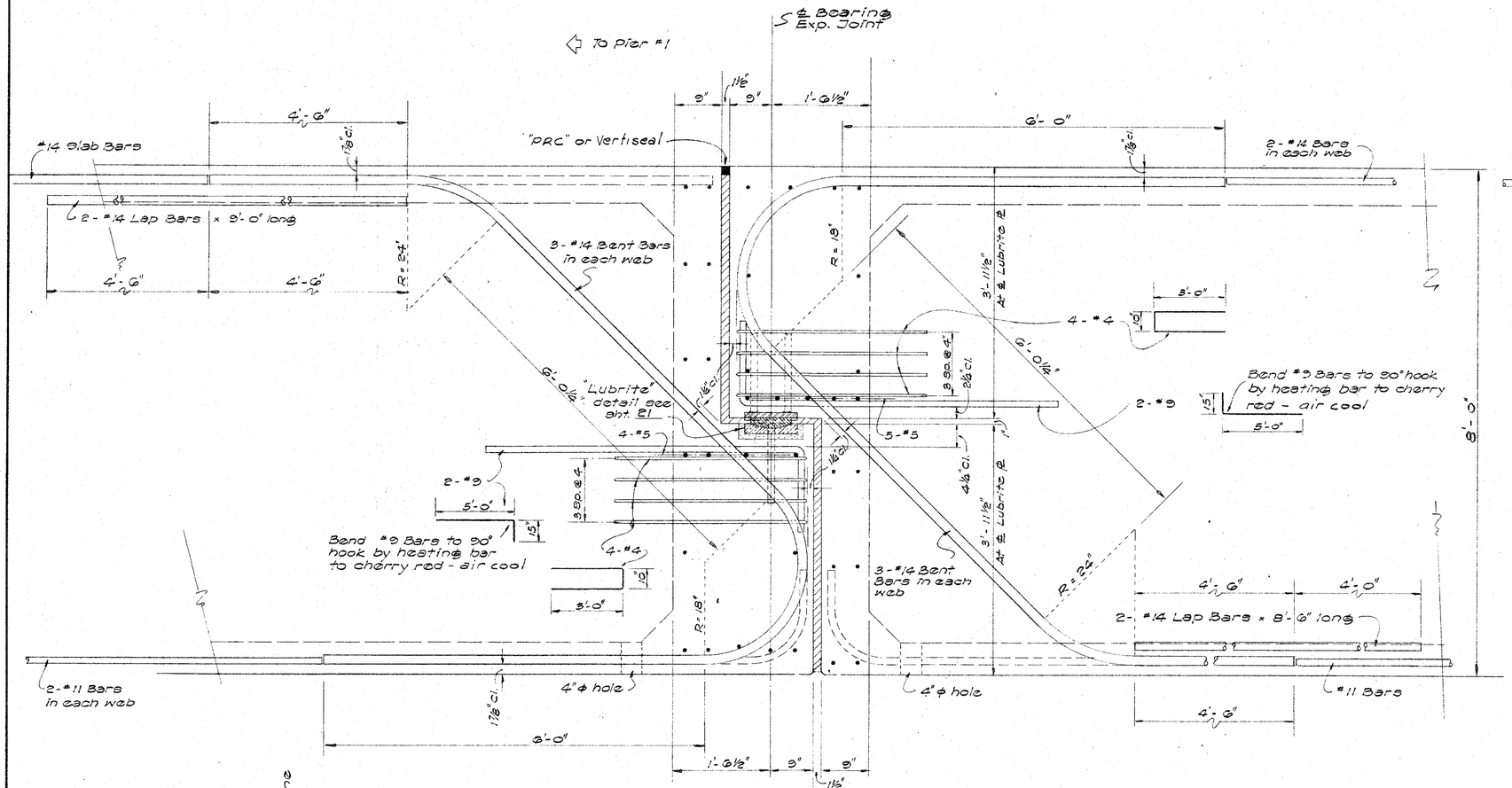
SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

SHEET No. 19 OF 22 SHEETS

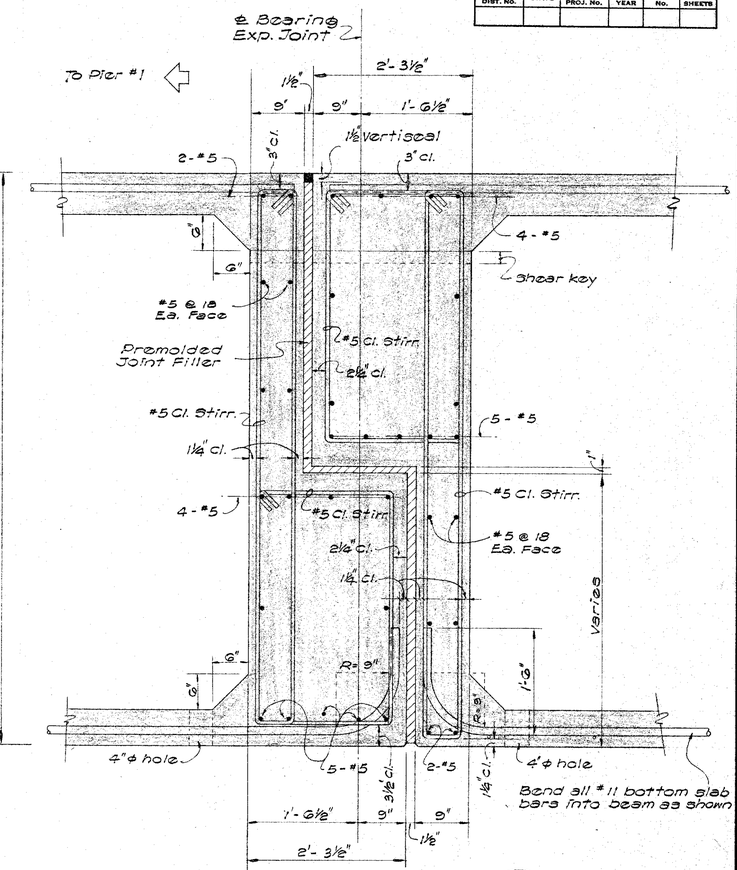
CONSULTANT SUBMISSION

5928.76

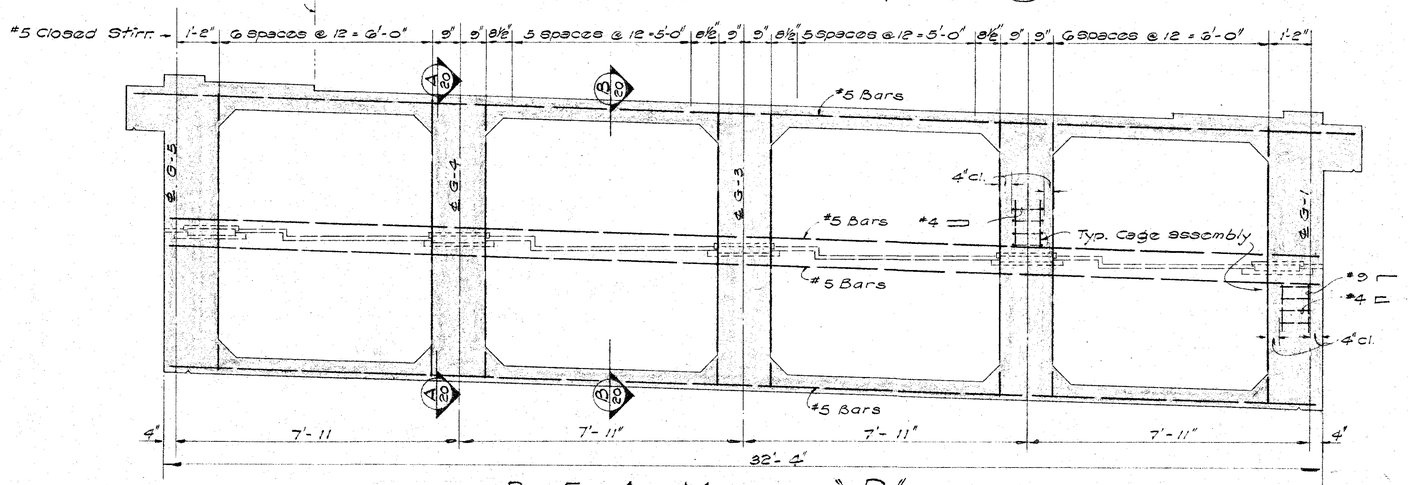
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



SECTION A/20
scale 1" = 1'-0"



SECTION B/20
scale: 1" = 1'-0"



BEAM "D"
scale: ½" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY: DATE
	DESIGNED BY:
	DRAWN BY:
NOTE BOOK	TRACED BY:
No.	QUANTITIES BY:
	QUANTITIES CHECKED BY:
	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

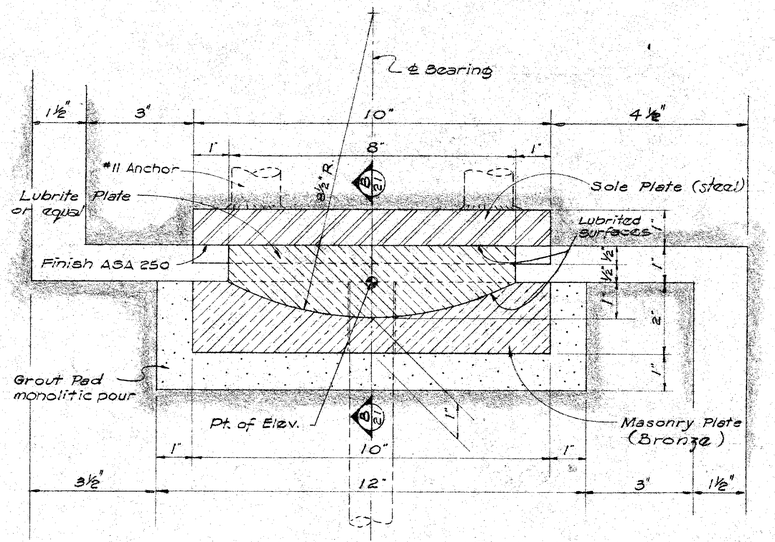
SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

SHEET No. 20 OF 22 SHEETS

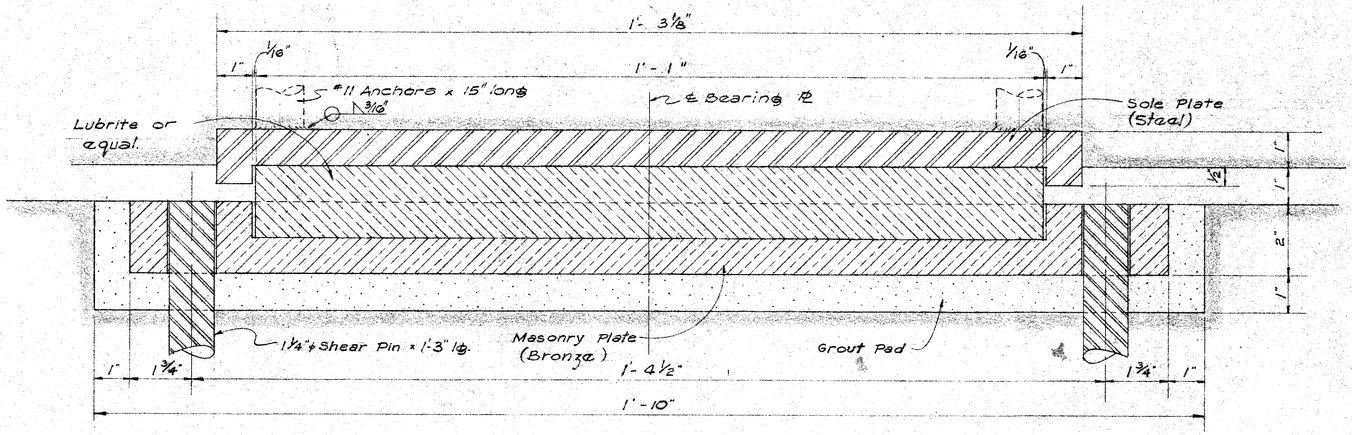
CONSULTANT SUBMISSION

5928.77

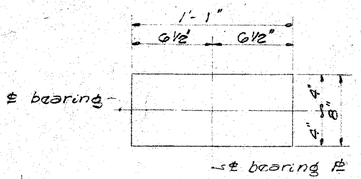
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



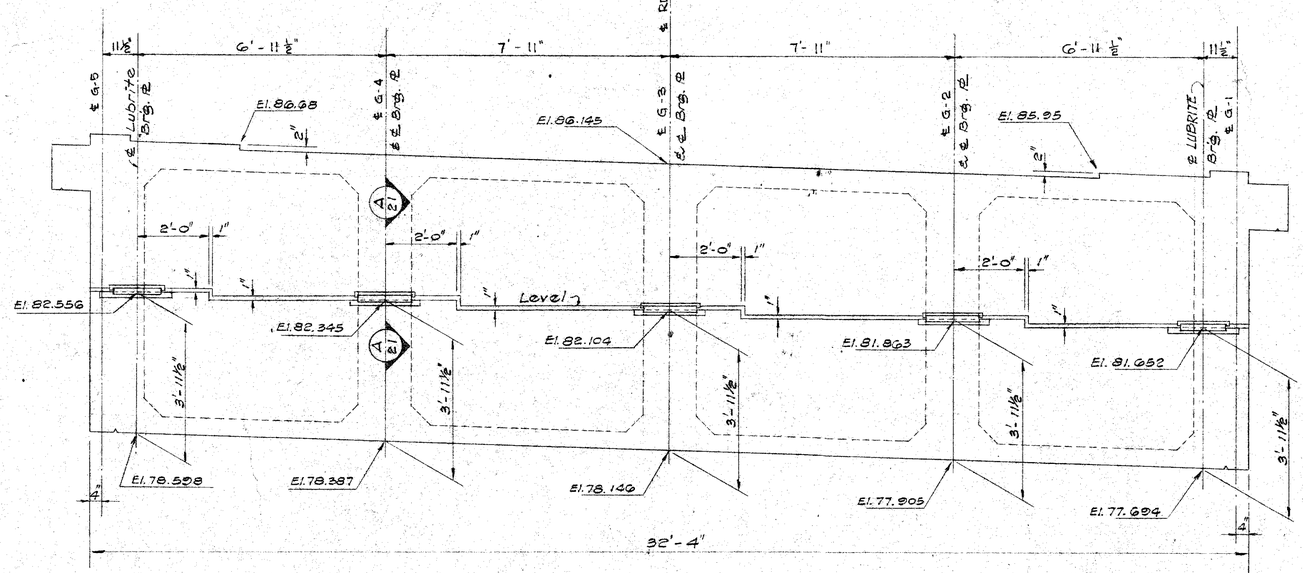
SECTION A/21
Scale: Half Size



SECTION B/21
Scale: Half Size

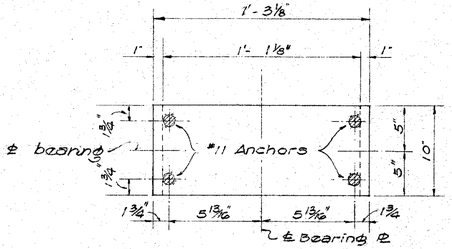


PLAN - LUBRITE ℄ OR EQUAL
Scale: ½" = 1'-0"

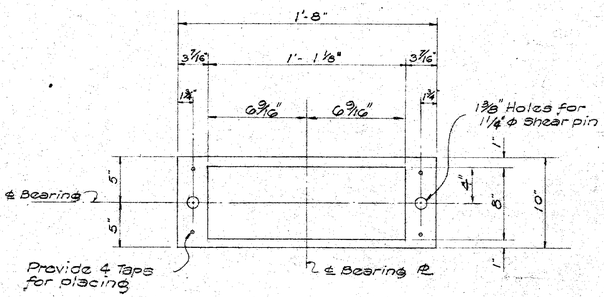


Note:
Elevations are along ℄ Bearing

BEARING PLATES LOCATION - BEAM "D" (EXP. JOINT)
Scale: ½" = 1'-0"



PLAN - SOLE PLATE
Scale: 1½" = 1'-0"



PLAN - MASONRY PLATE
Scale: 1½" = 1'-0"

NOTES:

DOWEL PINS:

Dowel pins shall be of structural carbon steel conforming to ASTM A 235 (Class C-1). They shall be finished accurate, straight, smooth and free of flaws.

SOLE PLATES

Sole plates shall be of structural carbon steel conforming to ASTM A-7 and finished to the dimensions shown on plans.

LUBRITE ℄ OR EQUAL

Permanently lubricated bearing and expansion plate out of bronze conforming to ASTM B 22-60T, Class B. Piece must be equal to or better than "LUBRITE." (See special provisions)

MASONRY PLATES

Masonry plates shall be of bronze conforming to ASTM B-22 Class B, and finished to the dimensions shown on plans.

GENERAL

All components mentioned above shall be finished accurate, straight and smooth and free from flaws.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE NO. 1

Base Line Sta. 159+38.58 to Sta. 163+91.83

VINEYARD BOULEVARD
PROJECT NO. F-098-1-(3)

SHEET No. 21 OF 22 SHEETS

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

CONSULTANT SUBMISSION

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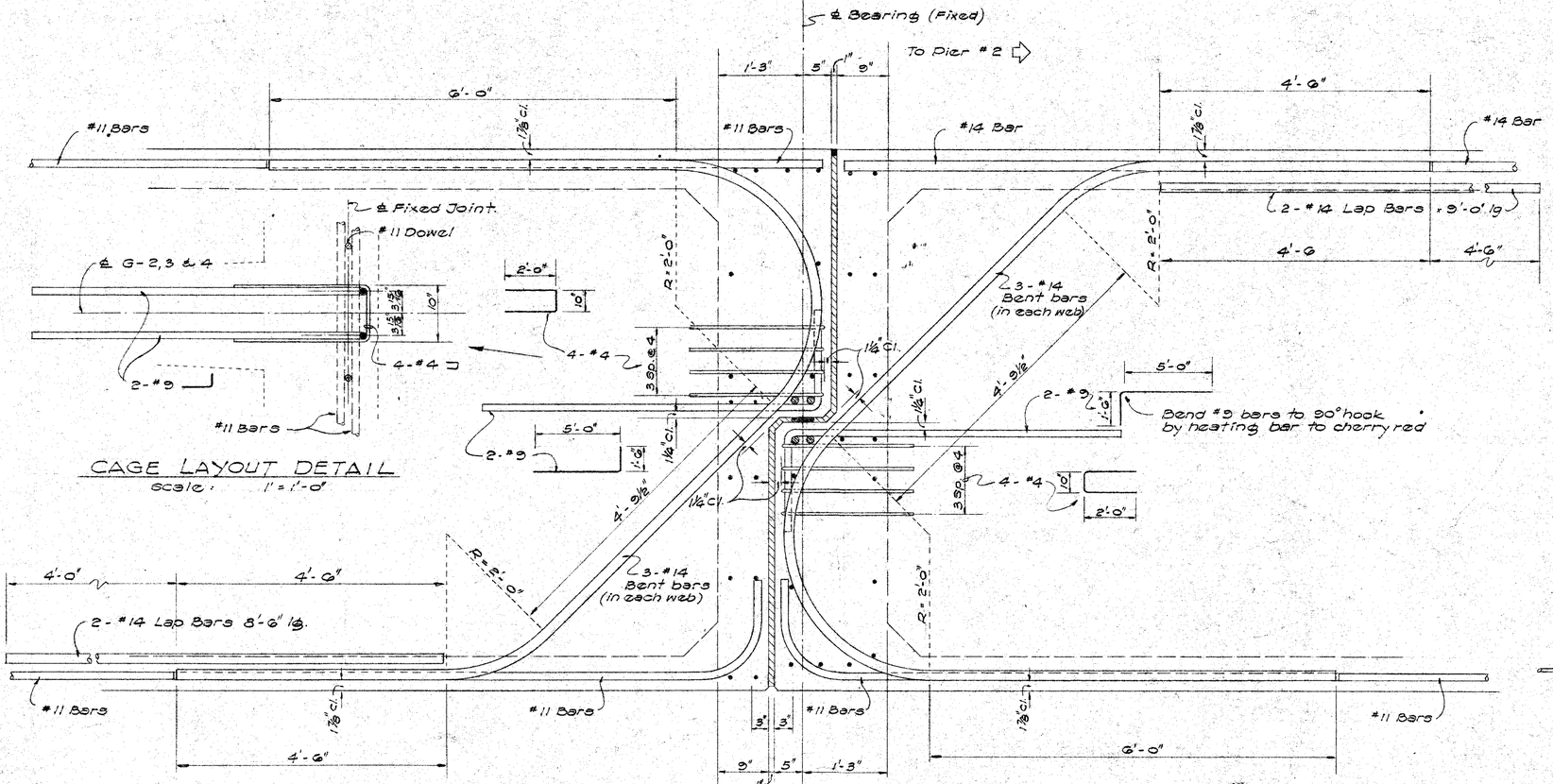

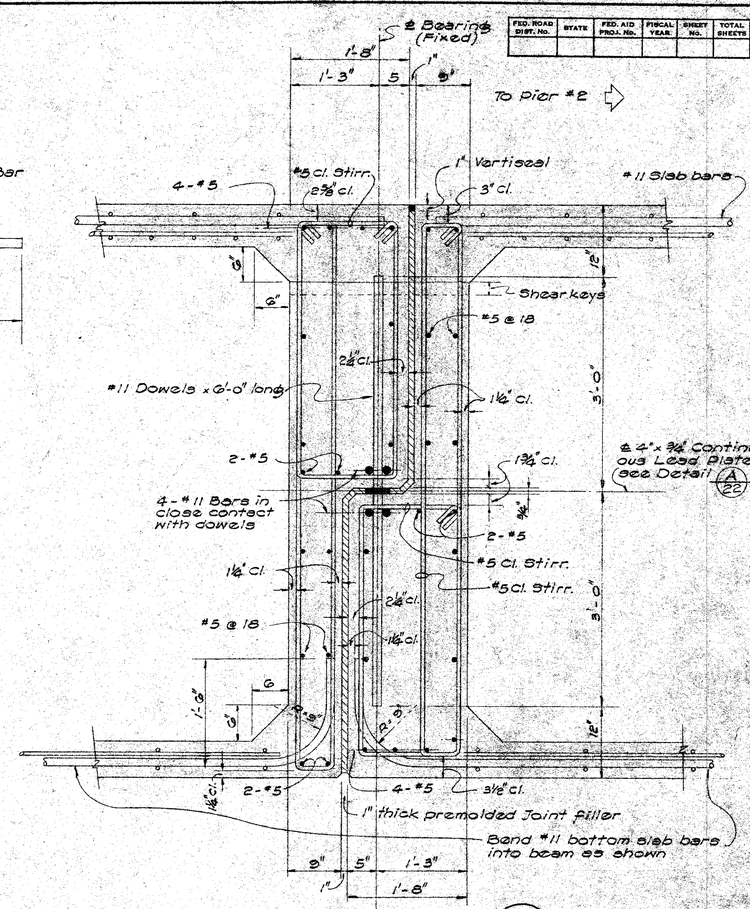

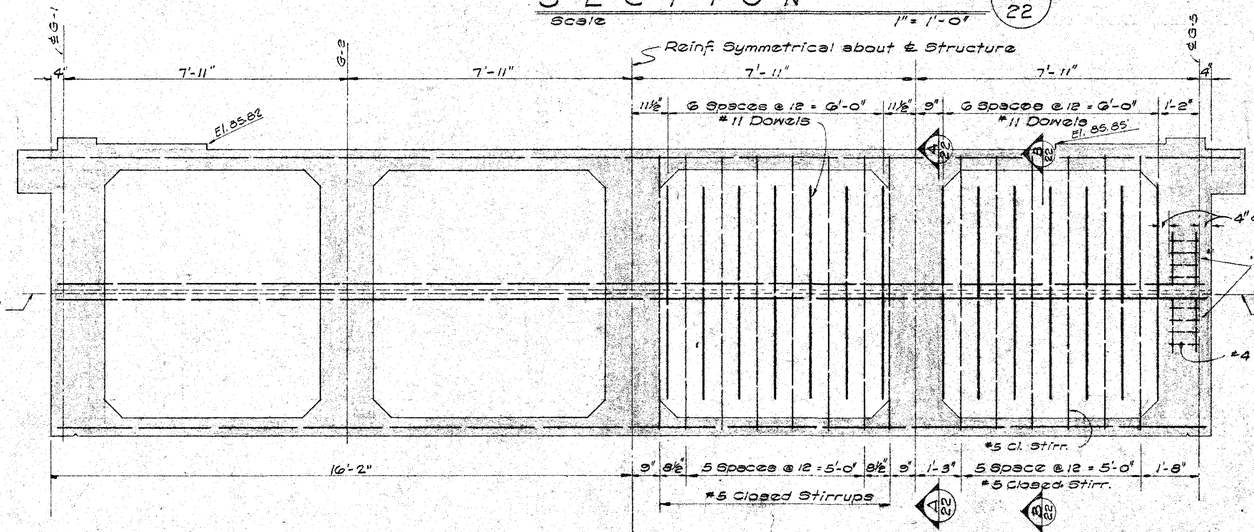

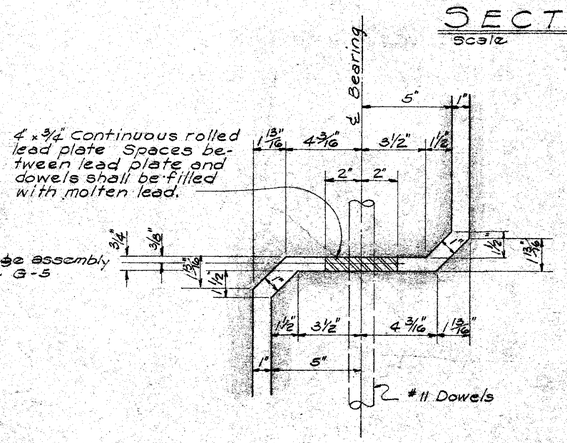

DETAIL A 22
Scale: 3"=1'-0"

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 1

Base Line Sta. 159+38.58 to Sta. 163+91.22

VINEYARD BOULEVARD
PROJECT NO. F-098-1-(3)

SHEET No. 22 OF 22 SHEETS

CONSULTANT SUBMISSION

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FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

MAGELLAN AVE.

ON RAMP "A"

WESTBOUND LANES

Edge of Pavement

Az. 343° 09' 30" — 178

179 ℄ LUNALILO FREEWAY

180

BRIDGE No. 1

181

182

183

184

Edge of Pavement

EASTBOUND LANES

VINEYARD BOULEVARD WESTBOUND RAMP

185

CAPT. COOK ST.

ALAPAI ST.

True North

Scale: 1" = 20'

℄ VINEYARD BOULEVARD 159

Az. 315° 03' 00"

Retaining Wall S-II See Sht.

Beg. Bridge Sta. 160+23.12

℄ Roadway 7

VINEYARD BOULEVARD

Expansion fittings for highway lighting duct. See electrical dwgs. for detail. See Sheet 5928.80

Edge of Pavement

End road See Sht. 4.

Metal guard rail see Highway plan Dwg. No. 5928.10

BRIDGE No. 2

El. 85.47

El. 84.29

El. 84.24

El. 85.13

El. 84.80

El. 83.54

El. 83.30

El. 83.18

End Bridge Sta 162+50.98

℄ end Edge of Pavement

Retaining Wall

EASTBOUND RAMP

Expansion fitting for highway lighting duct See electrical drawings for details Sht. 5928.80

Retaining Wall

Retaining Wall "A"

OFF. RAMP "B"

Edge of Pavement

℄ Bearing Abut. No. 1 Sta. 160+28.89 Az. 225° 52' 30"

℄ Bearing Abut. No. 2 Sta. 162+47.25 Az. 225° 08' 30"

℄ Dot Sta. 160+11.54 Az. 225° 08' 30"

Pr. Sta. 161+20.56 Az. 225° 08' 30"

℄ Dial Sta. 161+62.25 Az. 225° 08' 30"

EP & CURVE DATA

Δ = 3° - 05' - 00"

Δ/2 = 3° - 02' - 30"

R = 1024'

T = 54.41

Ch = 108.67

Lc = 108.72

LAUHALA ST.

LAYOUT PLAN

Scale: 1" = 20'

NOTE:
All elevations are finish pav't. elevations at 25 ft. intervals.

ESTIMATED QUANTITIES		
CONCRETE INCLUDING PARAPETS	LUMP SUM	
REINFORCING STEEL	LUMP SUM	
STRUCTURAL EXCAVATION	875	CUYDS
A.C. MIX No IV	39.2	TONS
FILTER MATERIAL	820	CUYDS
TACK COAT	152	GALS
ALUMINUM RAILING	449	L.F.

ORIGINAL PLAN	NOTE BOOK No.	SURVEY PLOTTED BY	DESIGNED BY	DRAWN BY	TRACED BY	QUANTITIES BY	QUANTITIES CHECKED BY	CHECKED BY	DATE

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.98

VINEYARD BOULEVARD
PROJECT No F-098-1-(3)

SHEET No. 1 OF 16 SHEETS

CONSULTANT SUBMISSION

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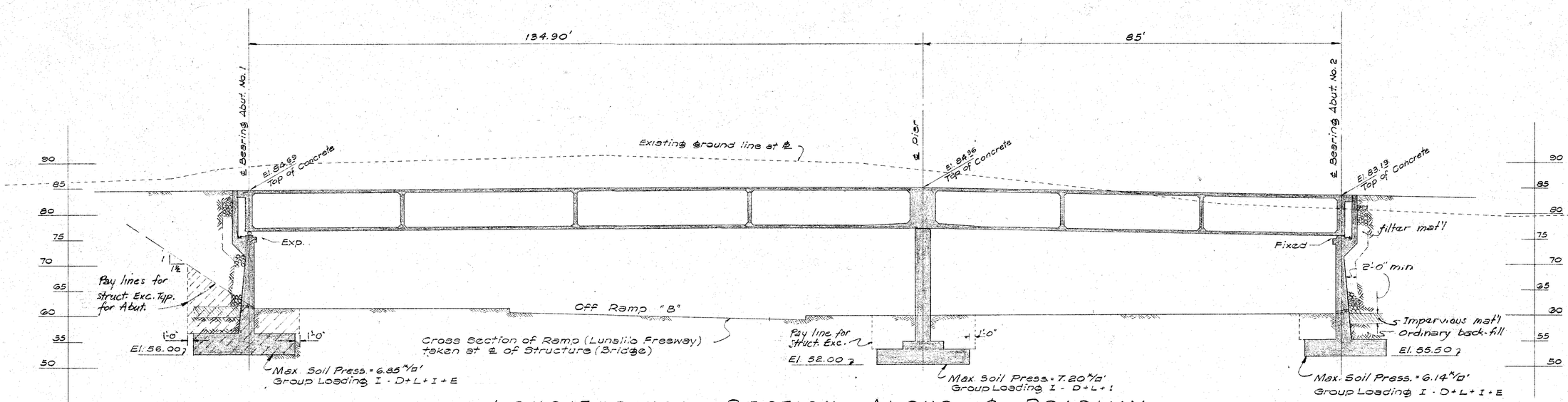
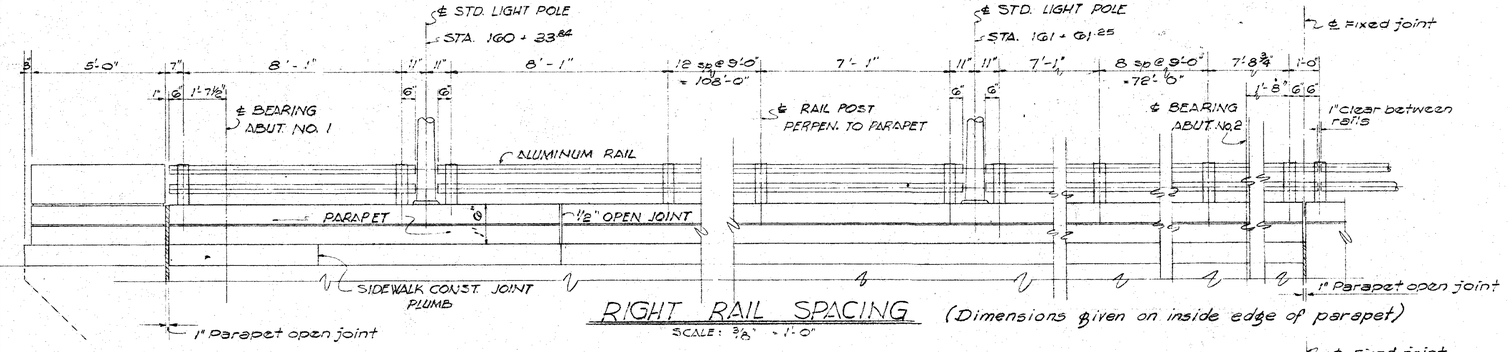


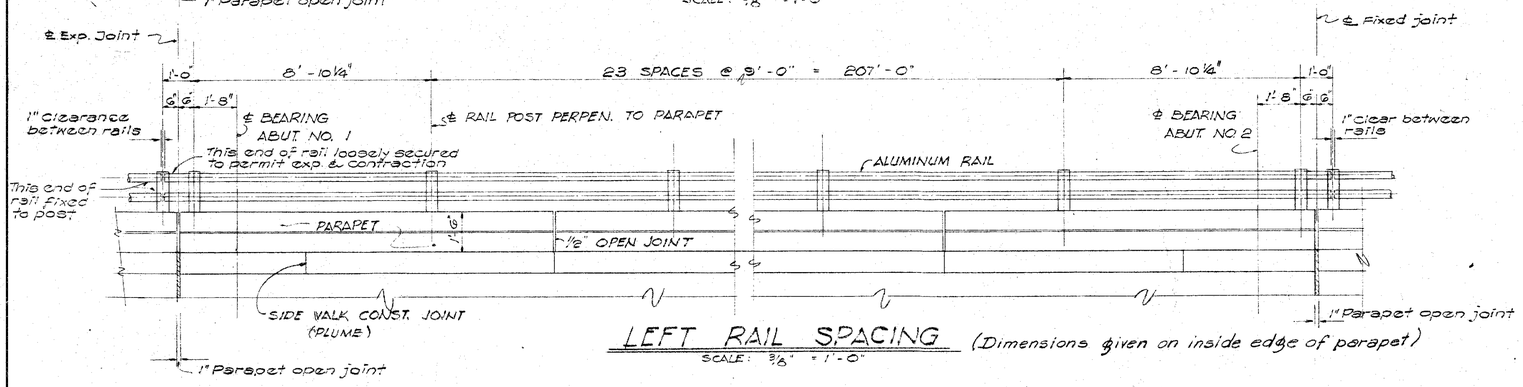
LONGITUDINAL SECTION ALONG ℄ ROADWAY

Scale: 1" = 10'



RIGHT RAIL SPACING (Dimensions given on inside edge of parapet)

SCALE: ⅜" = 1'-0"



LEFT RAIL SPACING (Dimensions given on inside edge of parapet)

SCALE: ⅜" = 1'-0"

ORIGINAL PLAN

NOTE BOOK No.	SURVEY PLOTTED BY	DATE
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	TRACED BY	
	QUANTITIES BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

GENERAL NOTES:

I. Design Data

(1) H 20-S-16-44 Loading
(2) f_s = 20,000 #/□".
(3) f_c = 1200 #/□"
(4) n = 10

II. Construction Methods

(1) Backfill behind abutments & wingwalls shall be complete in place before pouring concrete for the superstructure
(2) Curbs and parapets shall not be poured until after release of falsework.
(3) Finish – See Standard Specifications.
(4) Forms – Forms for bottom slab of box girders shall be 5 ply panelboard.
(5) Foundations to be poured neat against soil.

III. Materials

(1) Concrete – Class A-1
Except Pier Column – Class F-1

STATE OF HAWAII
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HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT NO. F-098-1(3)

ALFRED A. YEE
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SHEET No. 2 OF 16 SHEETS

CONSULTANT SUBMISSION

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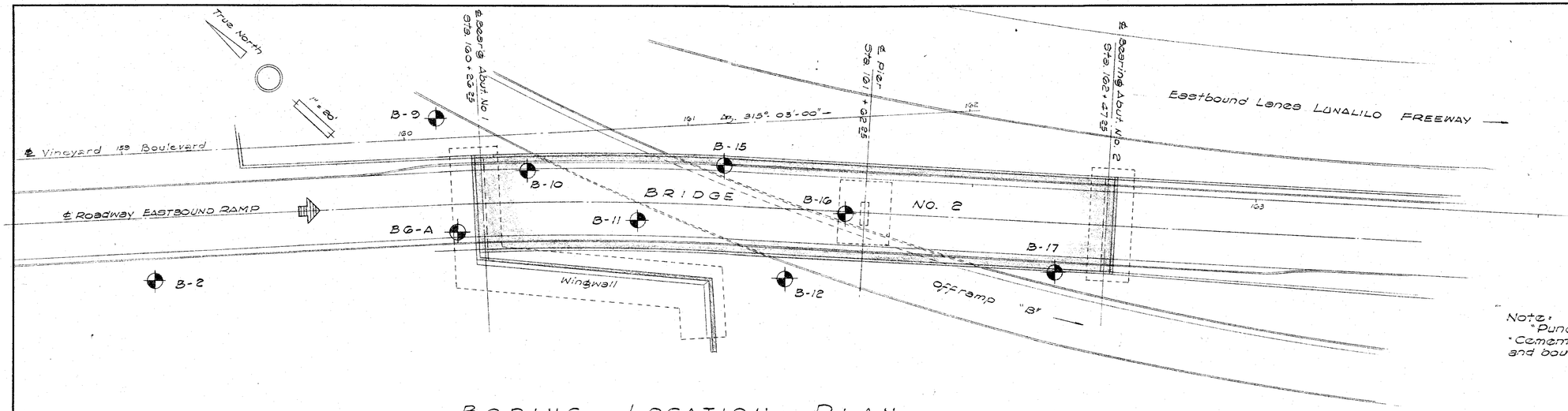
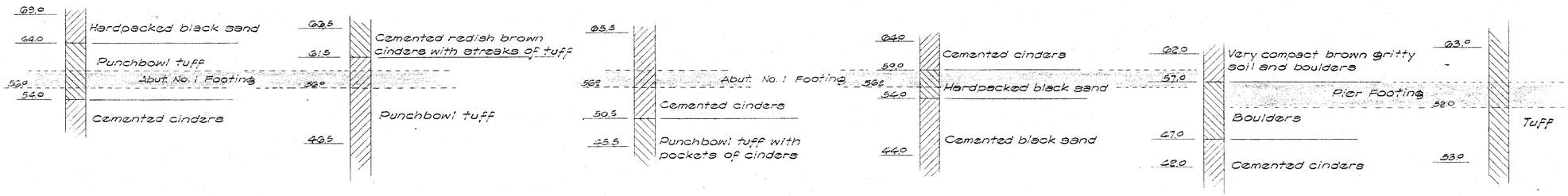


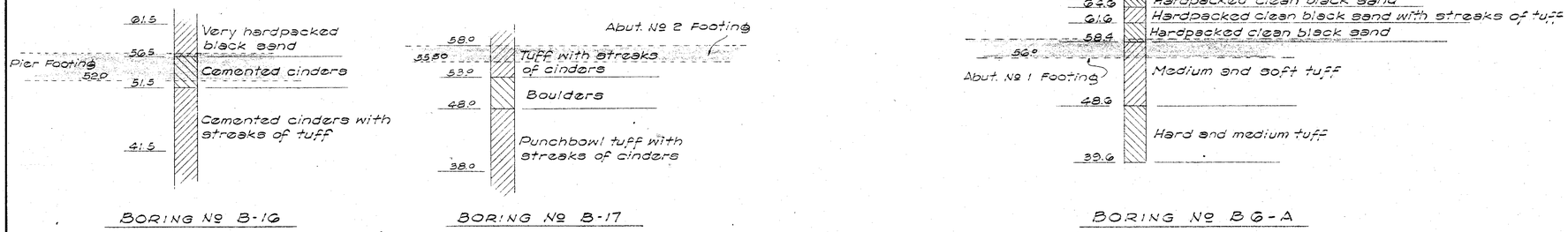
Note:
"Punchbowl tuff" as used here stands for "Cemented volcanic ejecta" containing fines and boulders

BORING LOCATION PLAN

Scale: 1" = 20'



BORING Nº B-2 | BORING Nº B-9 | BORING Nº B-10 | BORING Nº B-11 | BORING Nº B-12 | BORING Nº B-15



BORING Nº B-16 | BORING Nº B-17 | BORING Nº BG-A

BORING DATA

Scale: 1" = 10'

ORIGINAL PLAN
NOTE BOOK No.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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BRIDGE Nº 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT Nº F-099-1-(3)

ALFRED A. YEE REGISTERED STRUCTURAL ENGINEER No. 718 HAWAII U.S.A.

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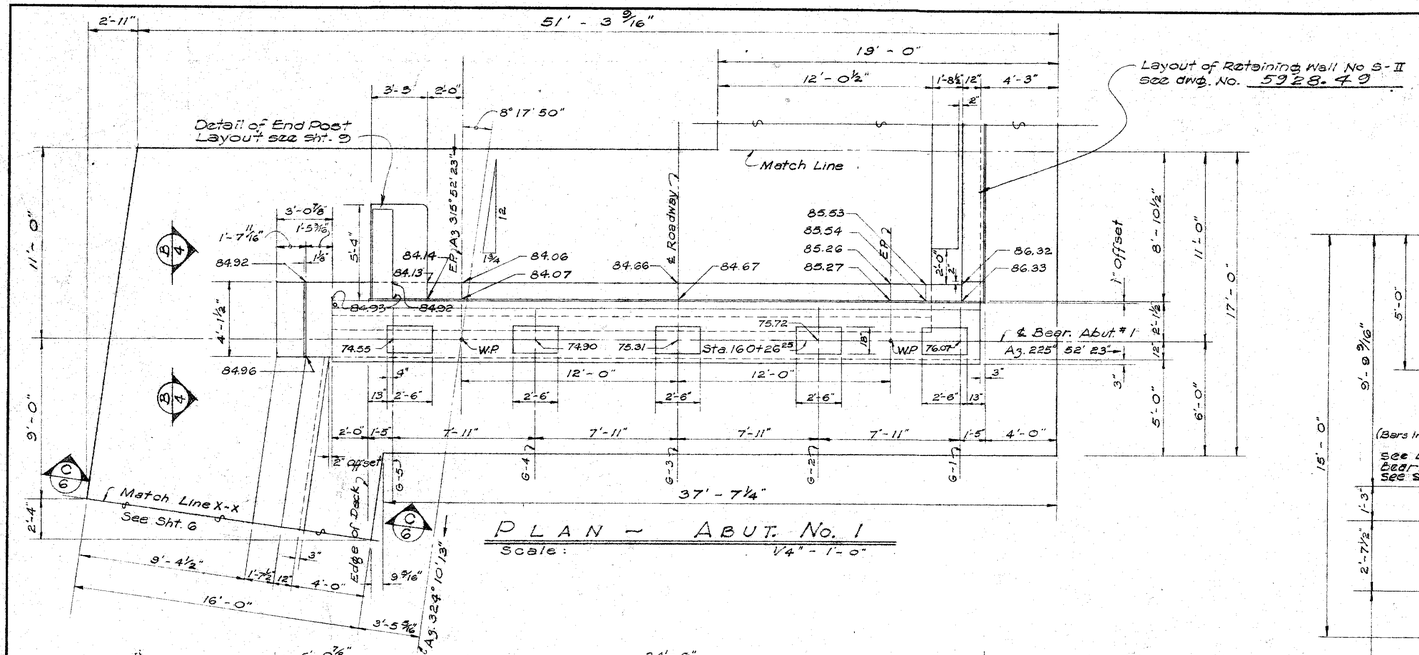

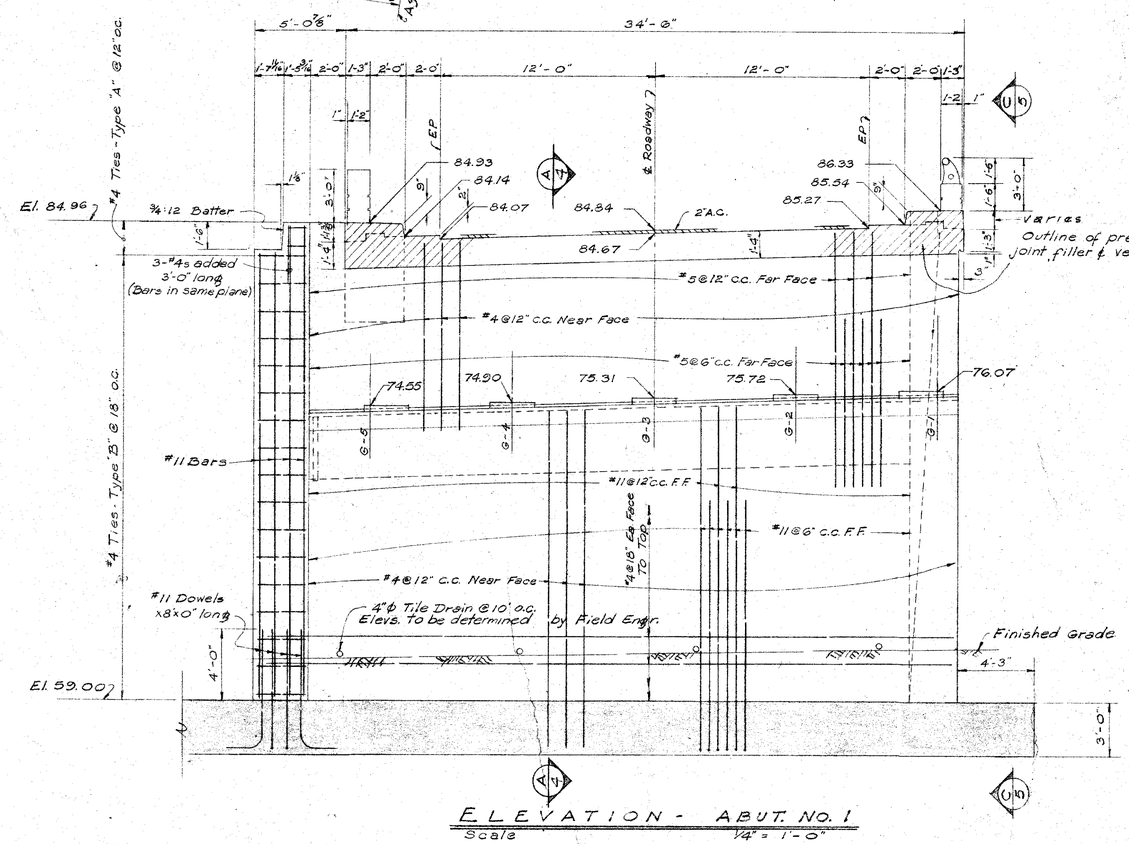

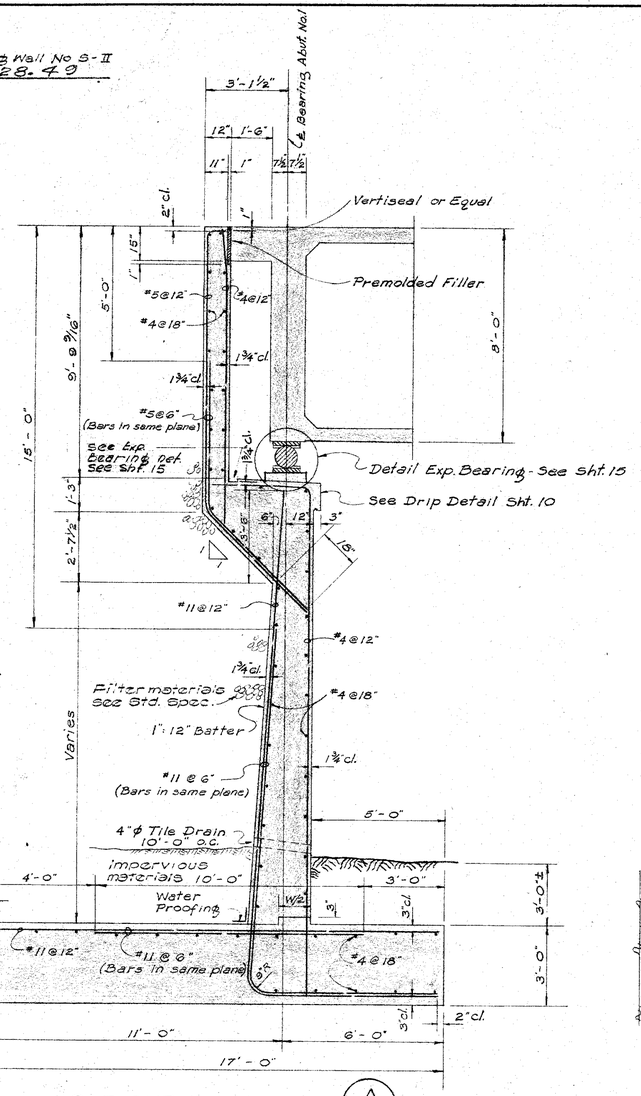

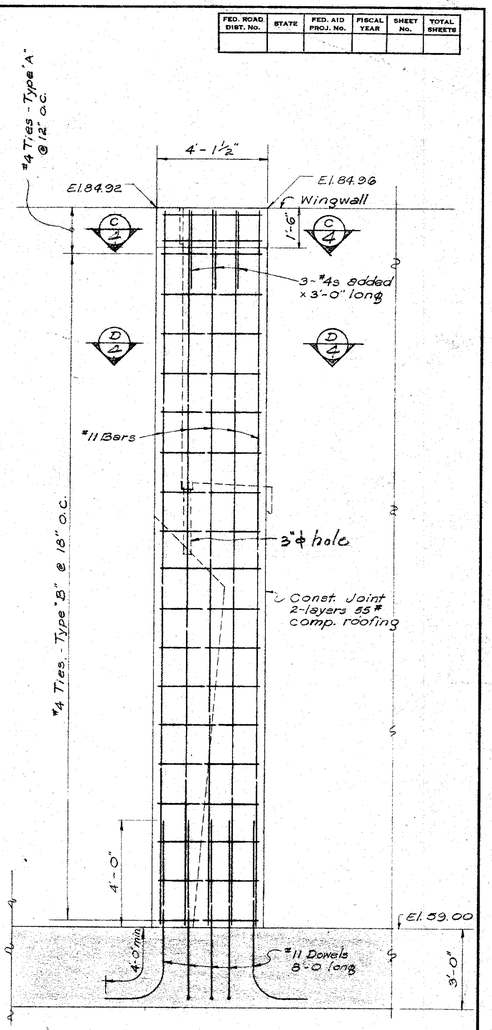

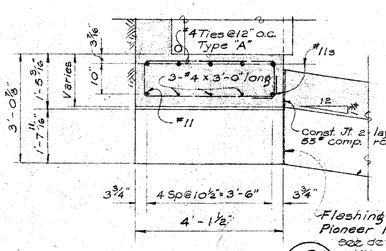

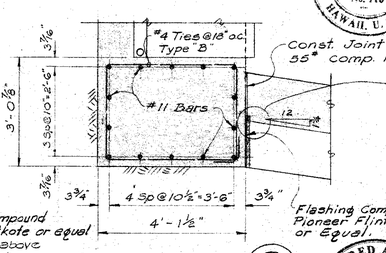

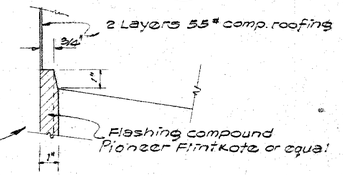

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STATE OF HAWAII
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HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 TO Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

SHEET No. 4 OF 16 SHEETS

CONSULTANT SUBMISSION

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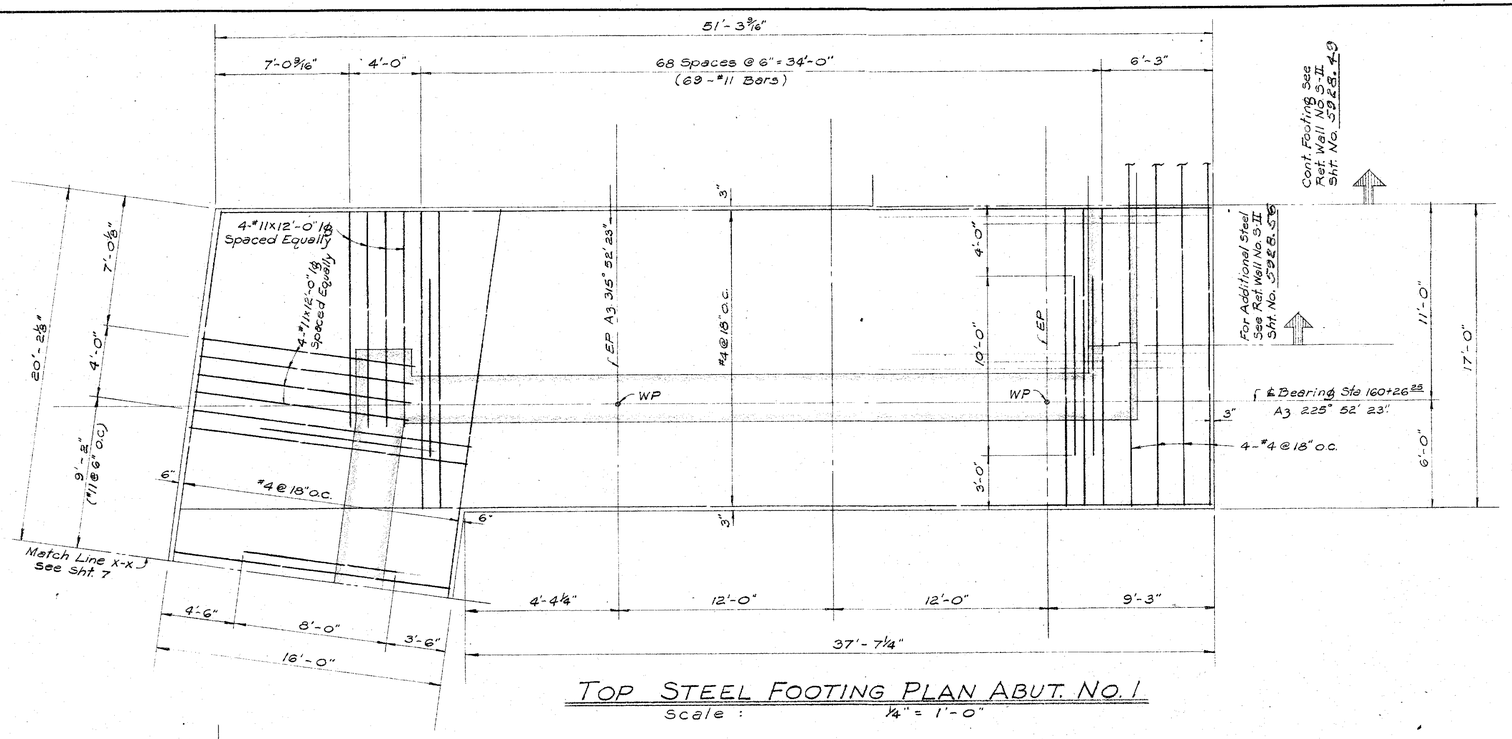
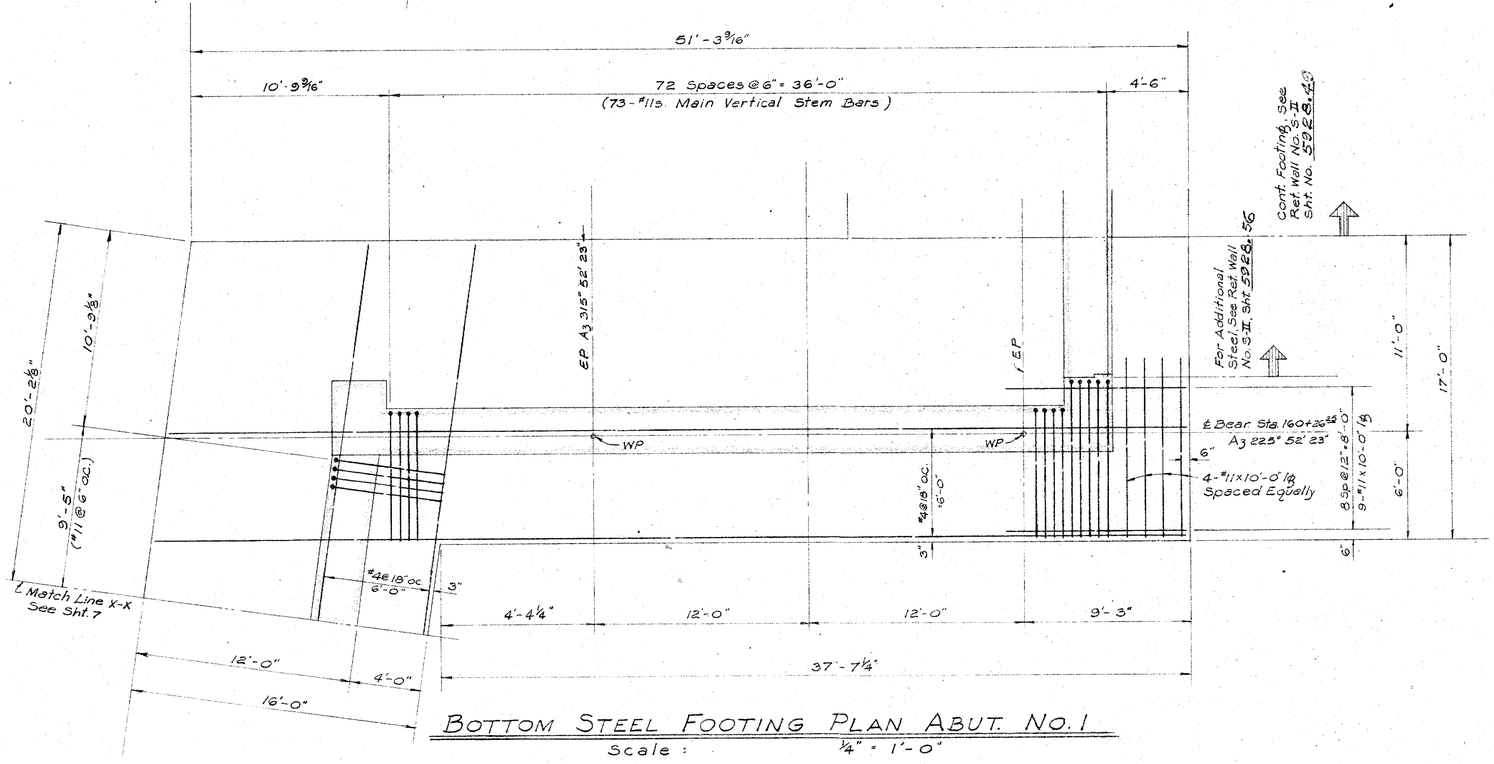


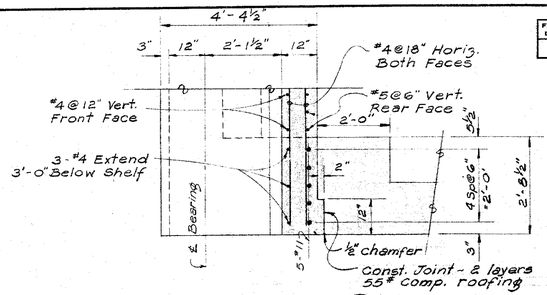
TOP STEEL FOOTING PLAN ABUT. NO. 1

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



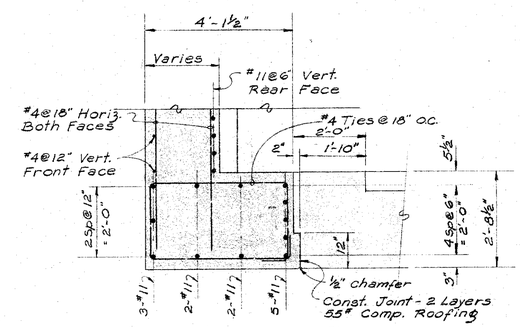
BOTTOM STEEL FOOTING PLAN ABUT. NO. 1

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



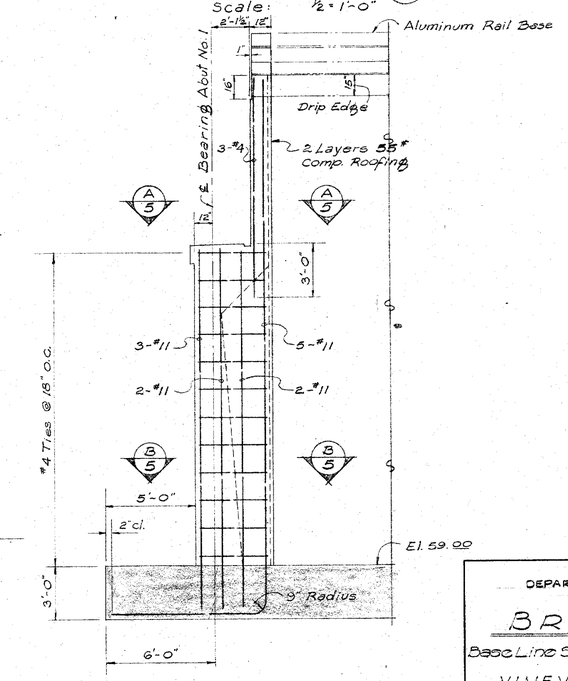
SECTION A/5

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



SECTION B/5

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



ELEVATION C/5

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

See Sht. No. 4

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.19 To Sta. 162+50.39

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

SHEET No. 5 OF 16 SHEETS

CONSULTANT SUBMISSION

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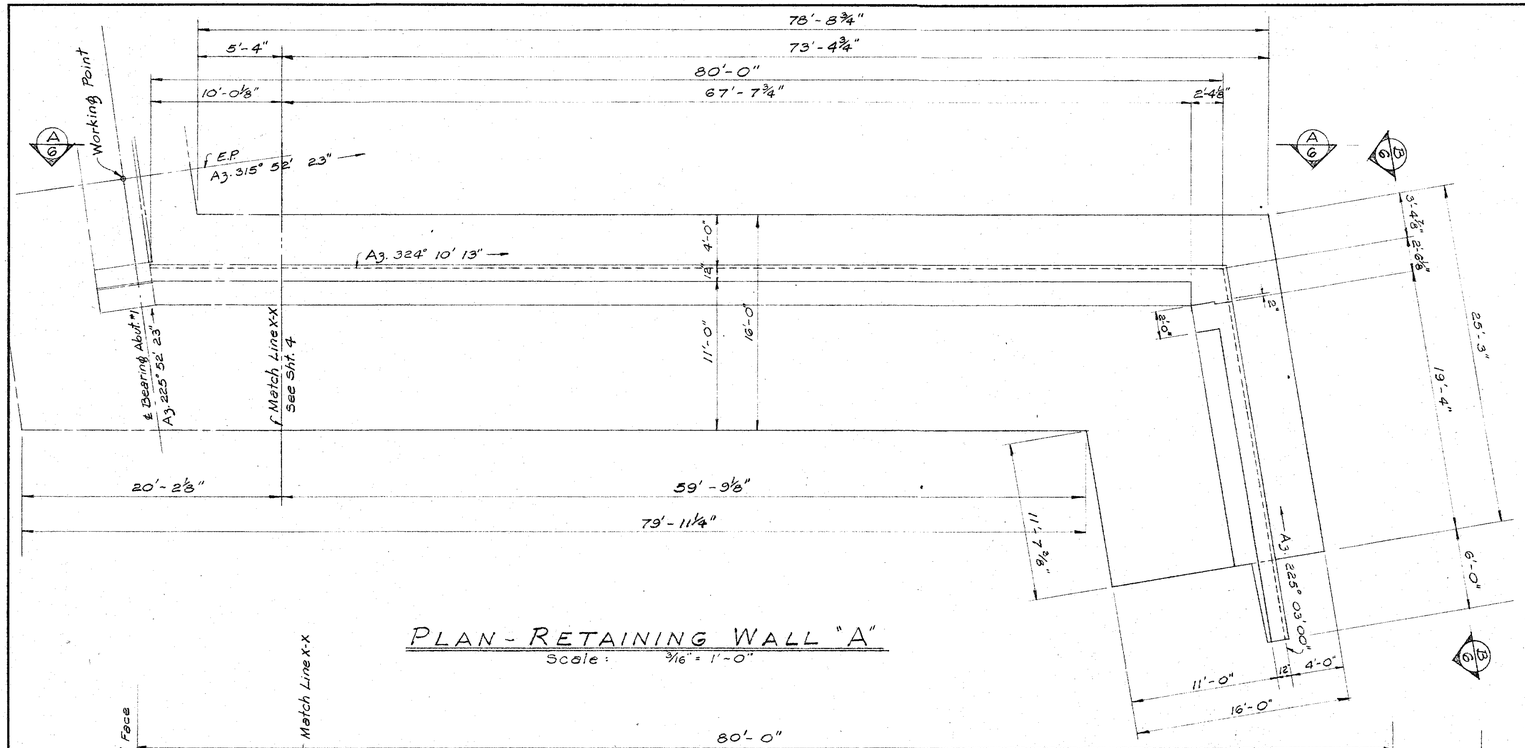
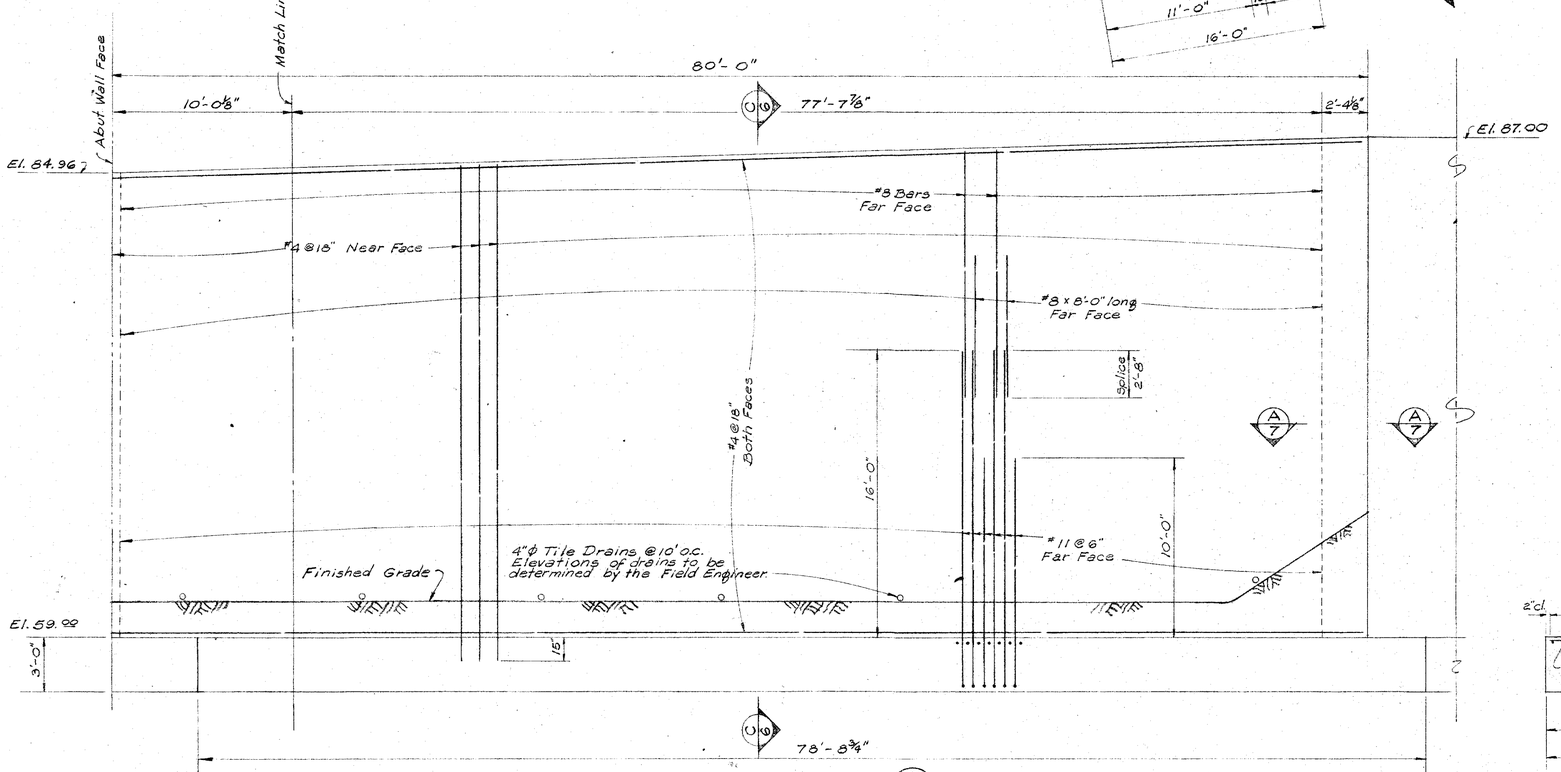
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



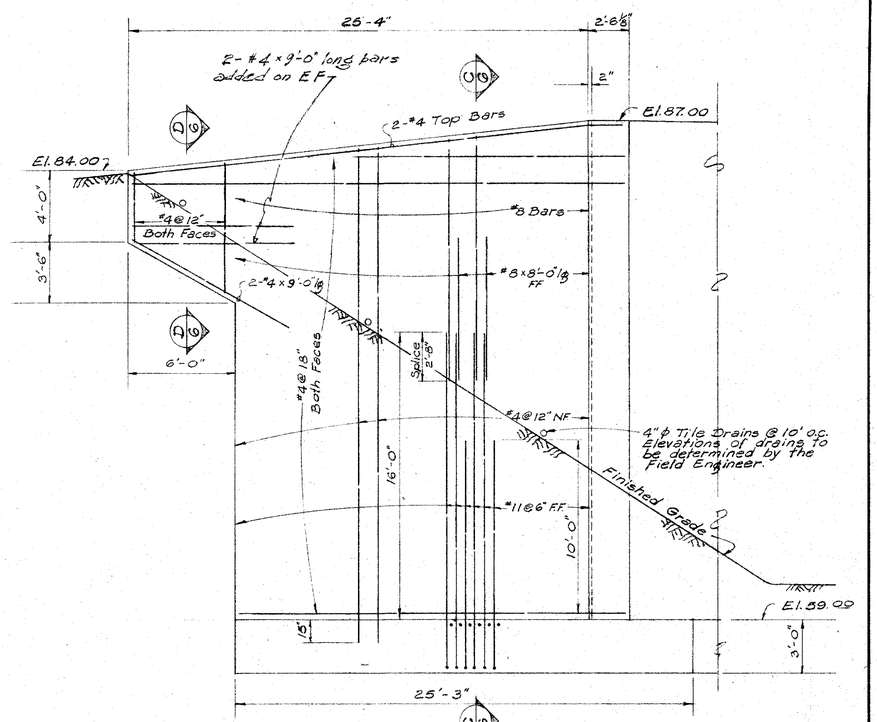
PLAN - RETAINING WALL "A"

Scale: 3/16" = 1'-0"



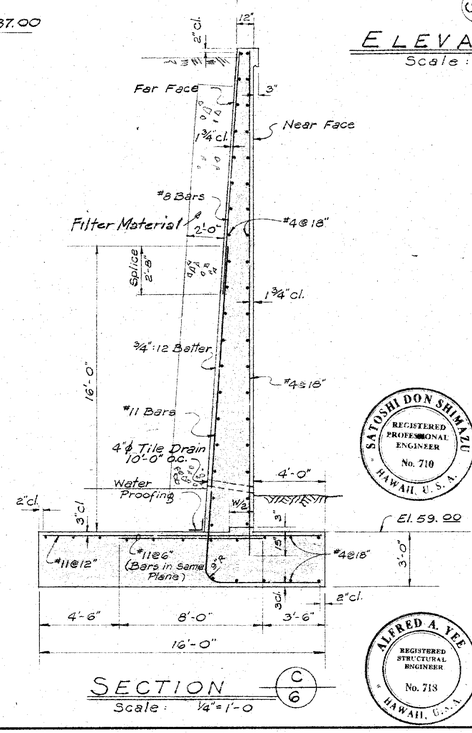
(OPPOSITE HAND) ELEVATION (A/6)

Scale: ¼" = 1'-0"



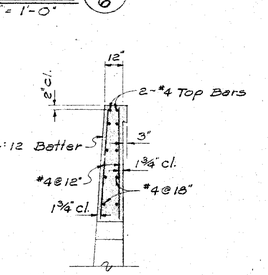
ELEVATION (B/6)

Scale: ¼" = 1'-0"



SECTION (C/6)

Scale: ¼"=1'-0"



SECTION (D/6)

Scale: ¼"=1'-0"

SATOSHI DON SHIMAZU
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

SHEET No. 6 OF 16 SHEETS

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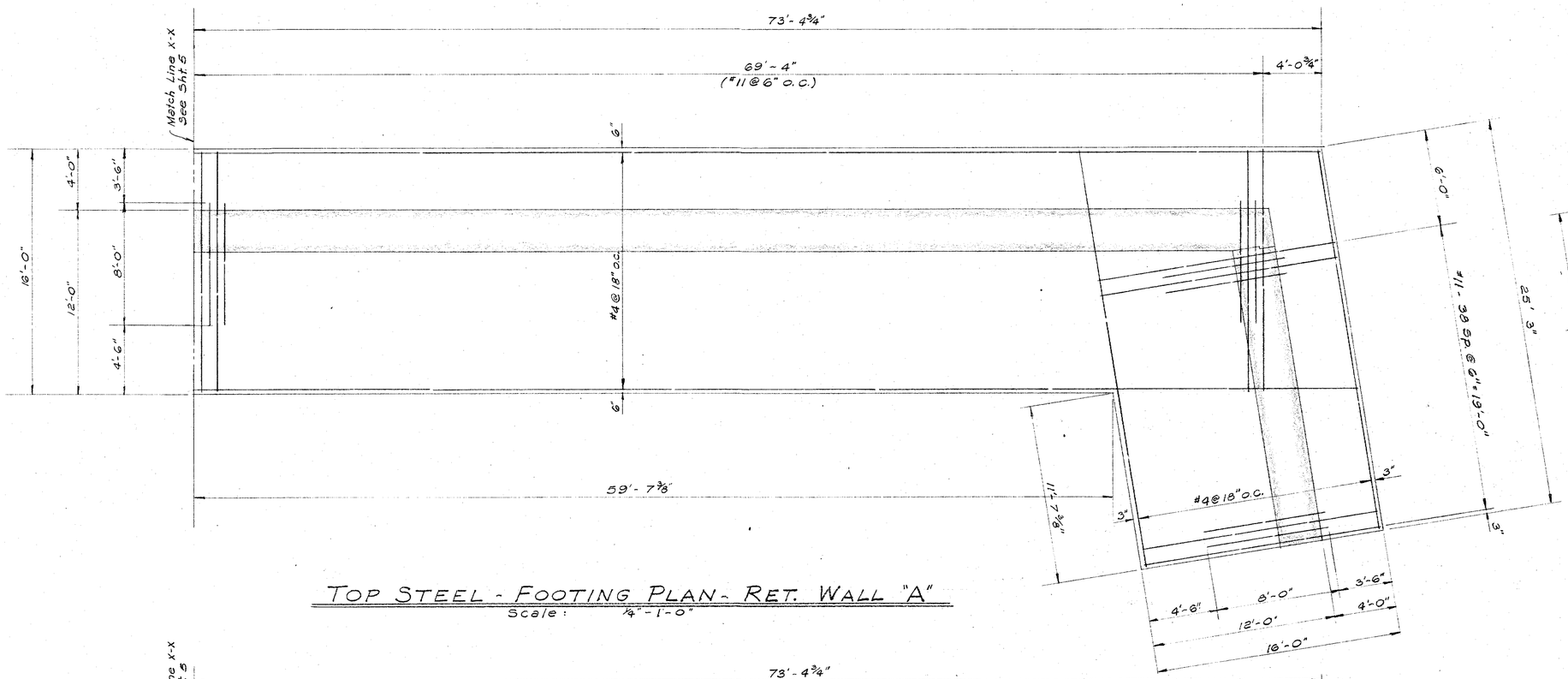
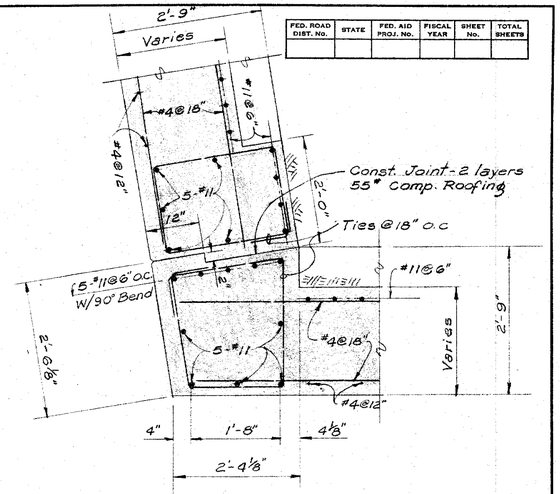


TOP STEEL - FOOTING PLAN - RET. WALL "A"

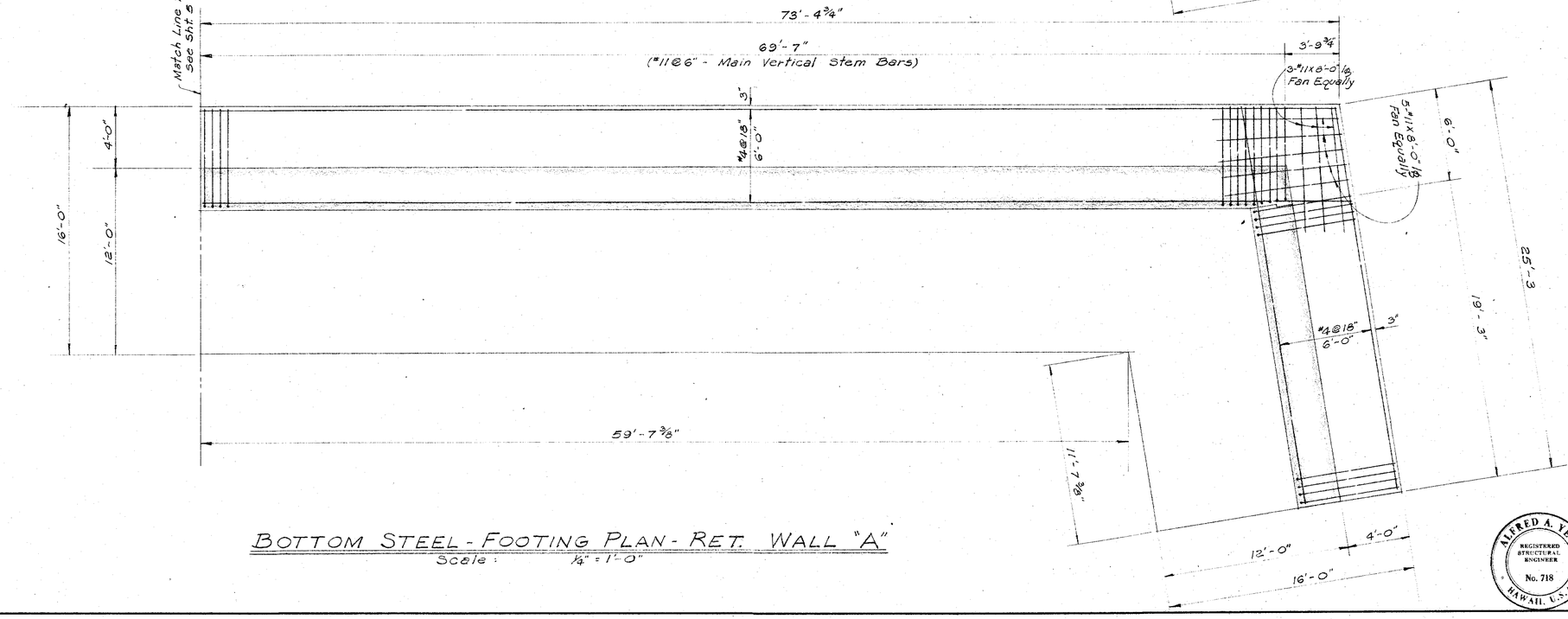
Scale: ¼"-1'-0"



SECTION A/7

Scale: ¾"=1'-0"

See Sht. No 6



BOTTOM STEEL - FOOTING PLAN - RET. WALL "A"

Scale: ¼" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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ALFRED A. YEE
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 100+23.12 TO Sta. 102+50.38

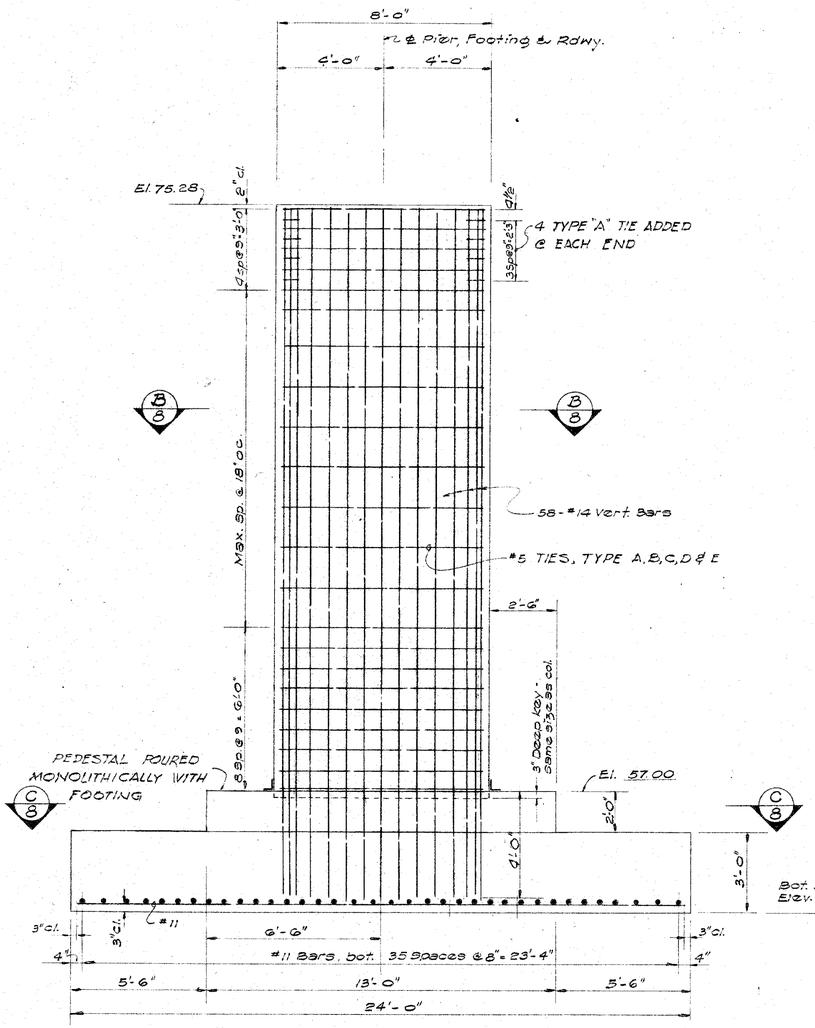
VINEYARD BOULEVARD
PROJECT No. F-038-1-(3)

SHEET No. 7 OF 16 SHEETS

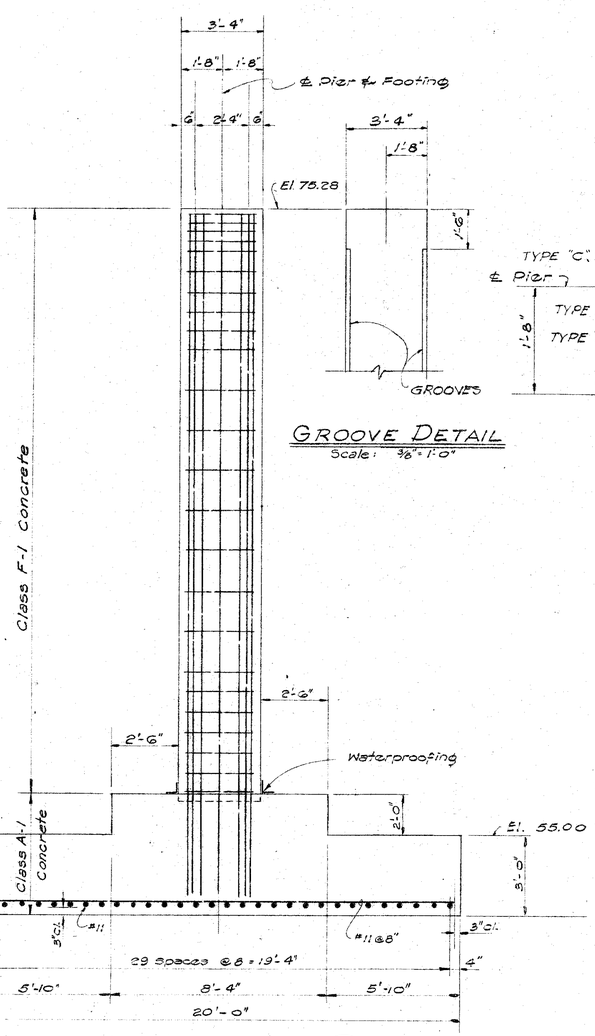
CONSULTANT SUBMISSION

5928.86

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

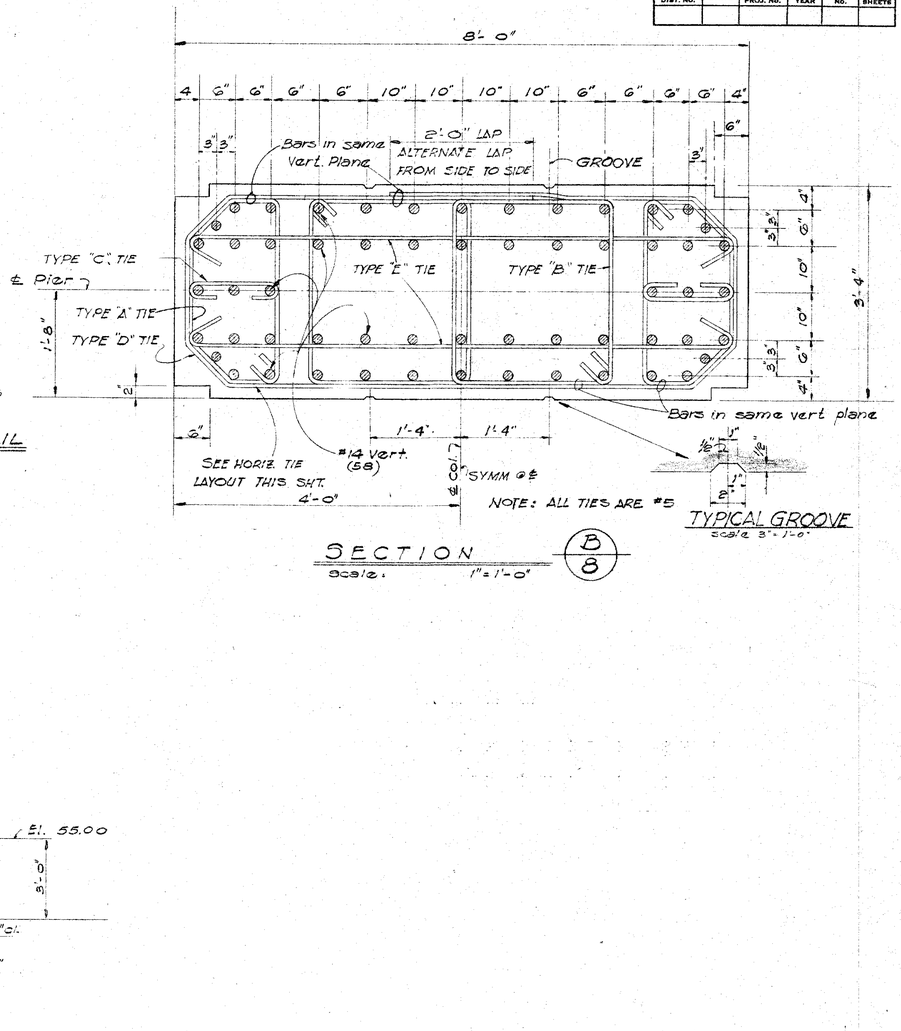


ELEVATION



SECTION (A/8)

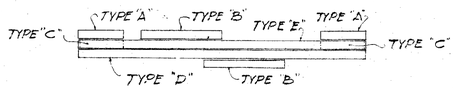
GROOVE DETAIL
Scale: 3/8" = 1'-0"



TYPICAL GROOVE
Scale 3" = 1'-0"

SECTION (B/8)
Scale: 1" = 1'-0"

DETAILS OF PIER
Scale: 3/8" = 1'-0"



#5 TIES ~ HORIZ. PLANE
NO SCALE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK	TRACED BY	
	QUANTITIES BY	
No.	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 713
HAWAII, U.S.A.

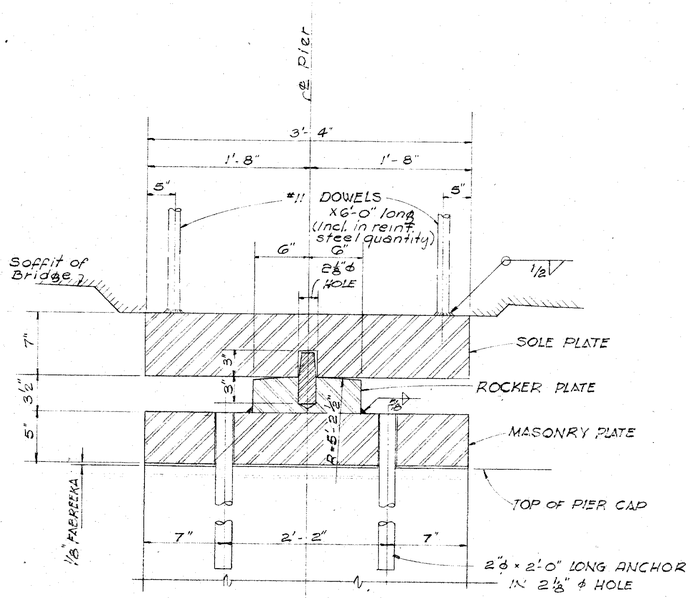
SAYOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

SHEET No. 8 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.87

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

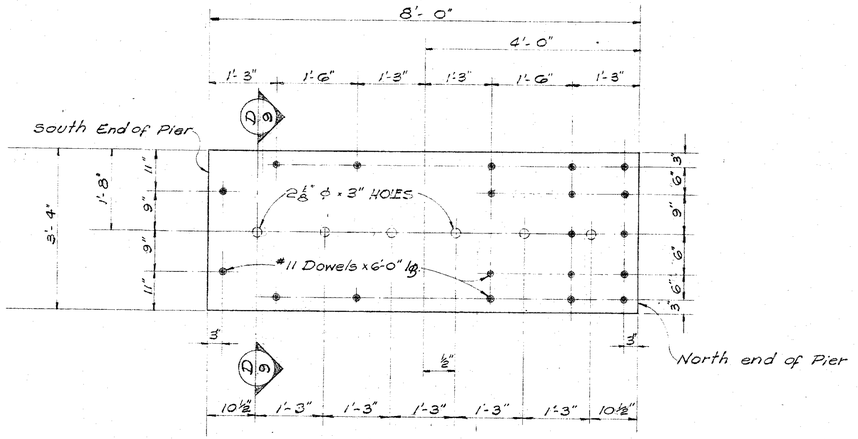


SECTION D/9

SCALE: 1½" = 1'-0"

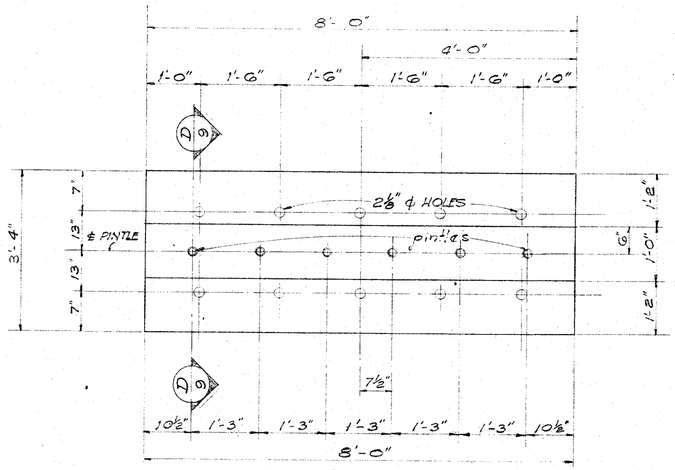
NOTES:

Sole, Rocker & Masonry Plates shall be of structural carbon steel conforming to ASTM A-7 and finished to the dimensions shown on plans. (Also, see Special Provisions.) Sole plate, masonry ℄, and 2"ϕ anchor shall be hot-dip galvanized.



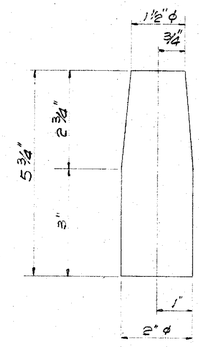
PLAN — SOLE PLATE

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



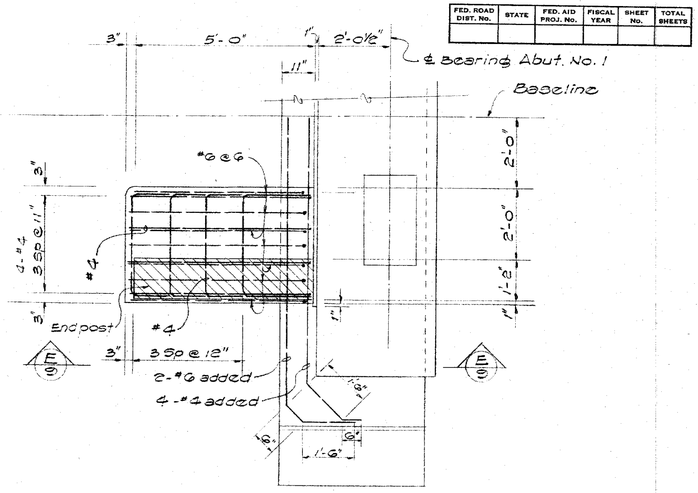
PLAN - ROCKER & MASONRY PLATE

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



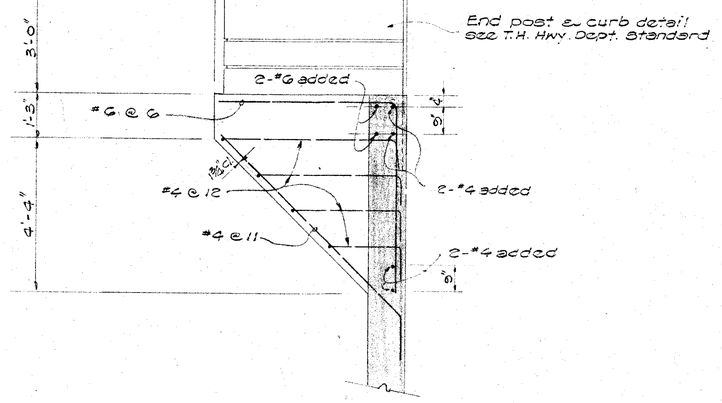
PINTLE DETAIL

HALF SCALE



PLAN - END POST LAYOUT

Scale 1/2" = 1'-0"



SECTION E/9

Scale 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK No.	TRACED BY	
	QUANTITIES BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE NO. 2

Base Line Sta. 100+23.12 To Sta. 102+50.38

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

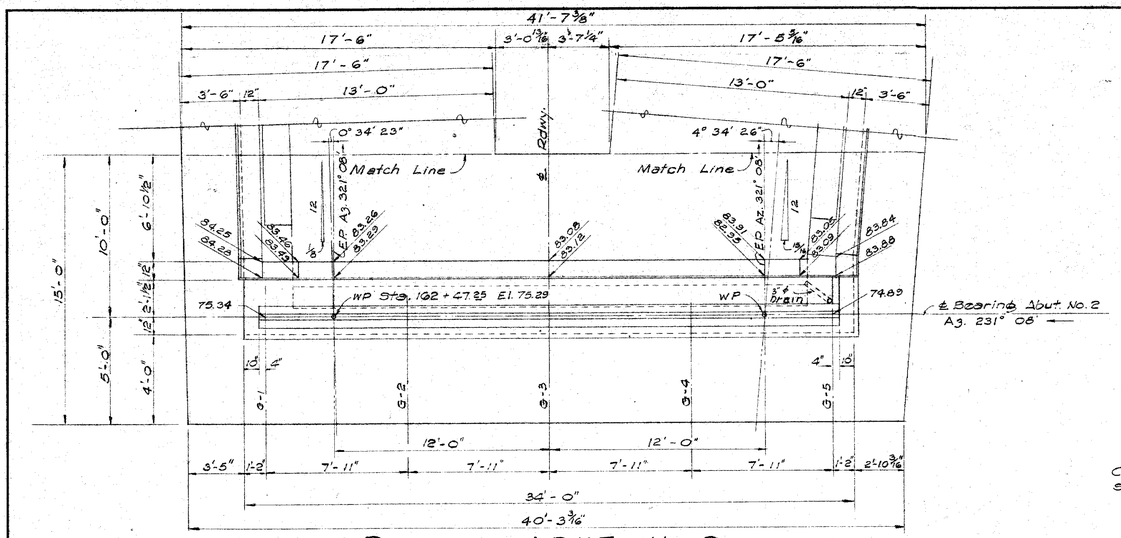
SATOSHI DON SHIMABU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

SHEET No. 9 OF 16 SHEETS

CONSULTANT SUBMISSION

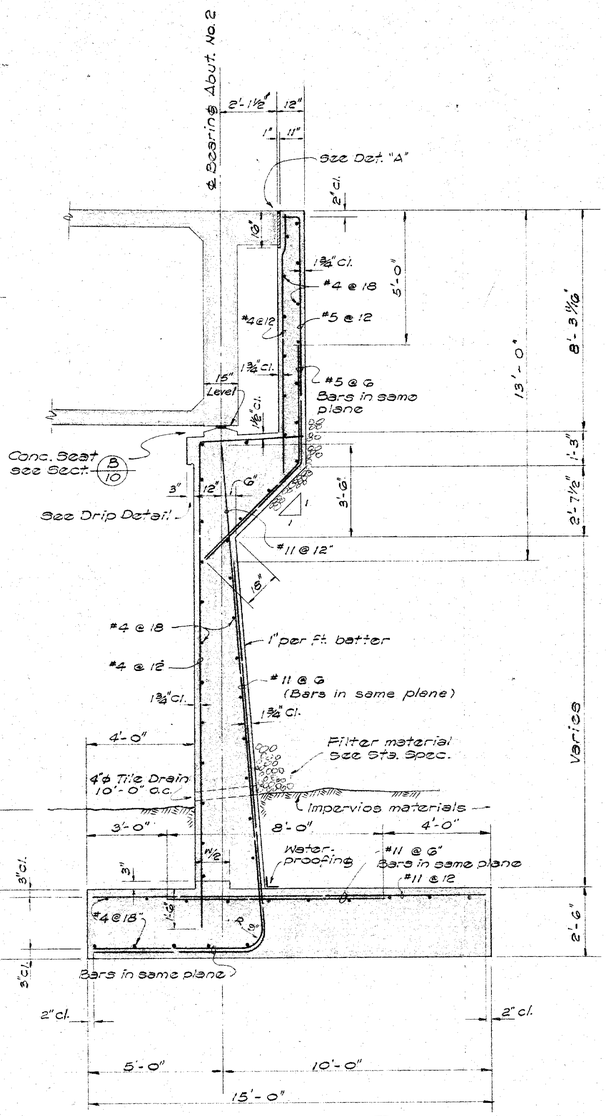
5928.88

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



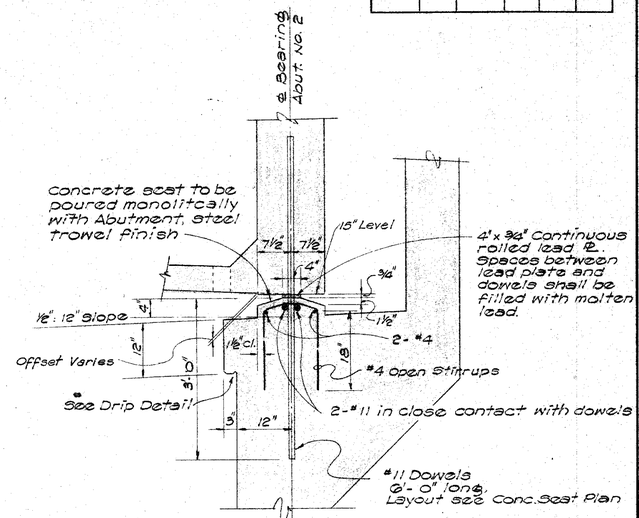
PLAN — ABUT. NO. 2

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



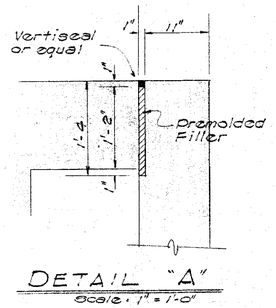
SECTION A/10

Scale: 3/8" = 1'-0"



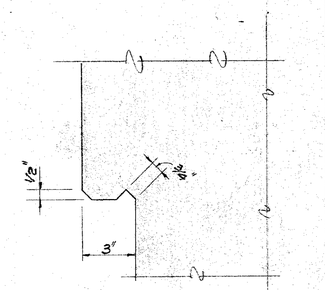
SECTION B/10

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



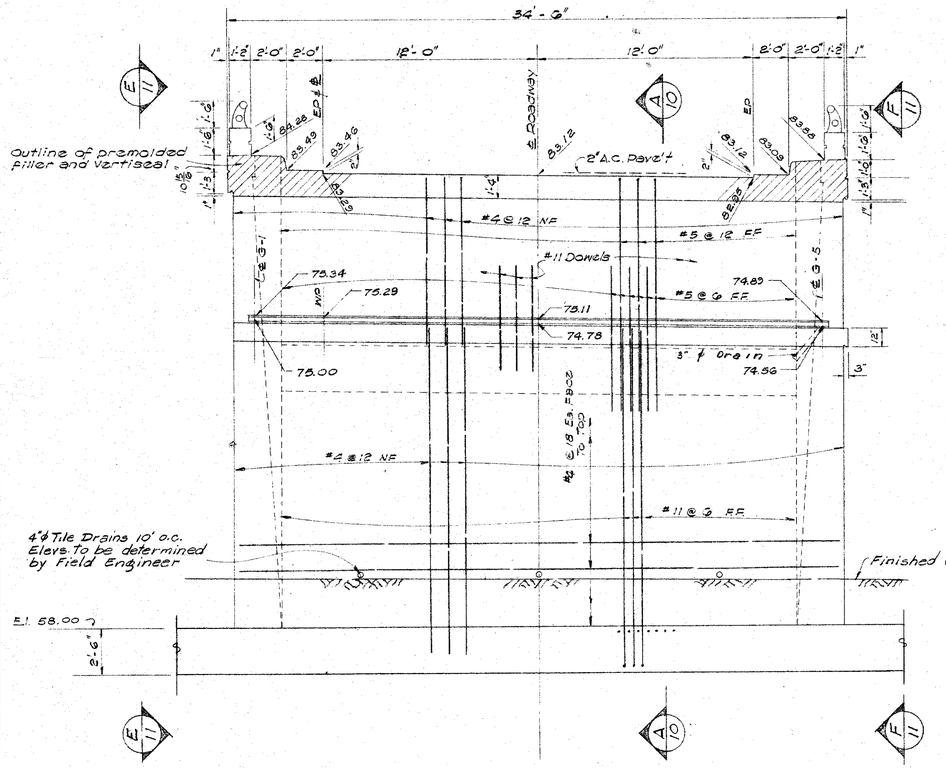
DETAIL "A"

Scale: 1" = 1'-0"



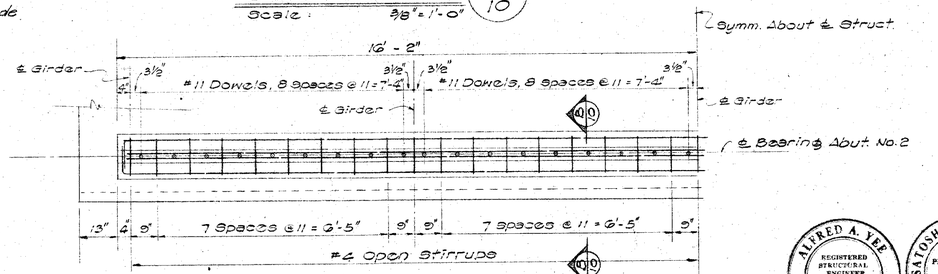
DRIP DETAIL

Scale: 3" = 1'-0"



ELEVATION — ABUT. NO. 2

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



HALF PLAN — CONCRETE SEAT

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

ORIGINAL PLAN	NOTE BOOK No.	SURVEY PLOTTED BY	DESIGNED BY	DRAWN BY	TRACED BY	QUANTITIES BY	CHECKED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD

PROJECT No. F-098-1-(5)

ALFRED A. YEE — REGISTERED STRUCTURAL ENGINEER — No. 718 — HAWAII, U.S.A.

SATOSHI DON SHIMAZU — REGISTERED PROFESSIONAL ENGINEER — No. 710 — HAWAII, U.S.A.

SHEET No. 10 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.89

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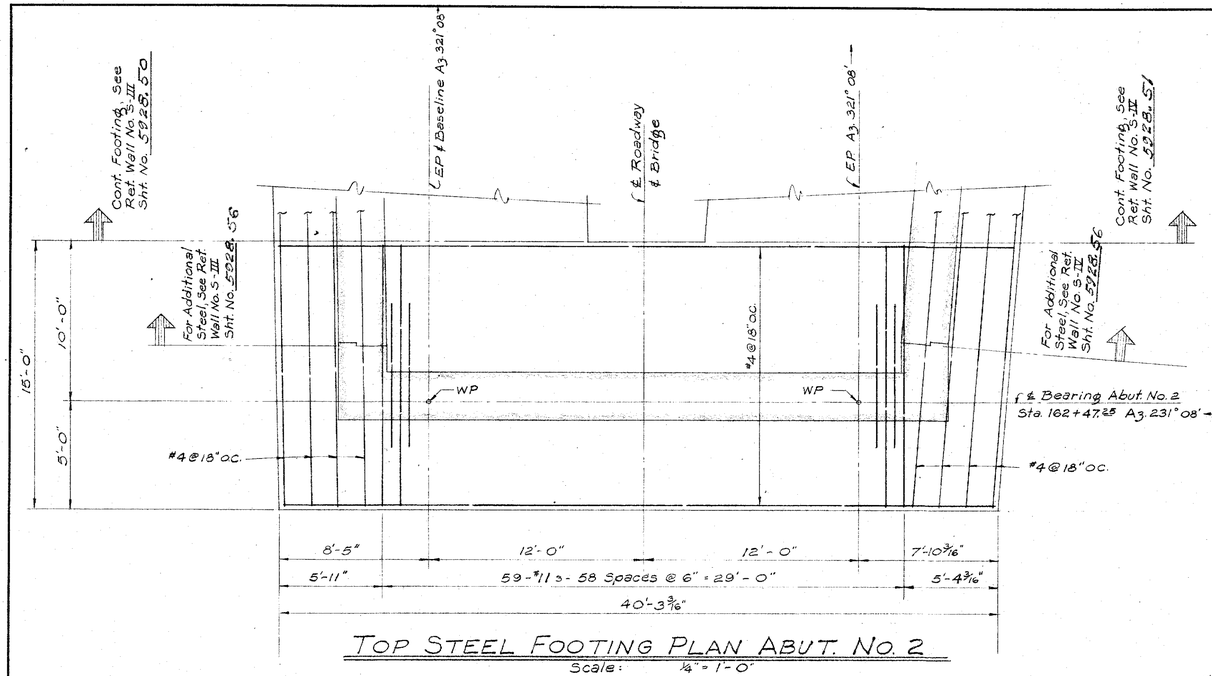
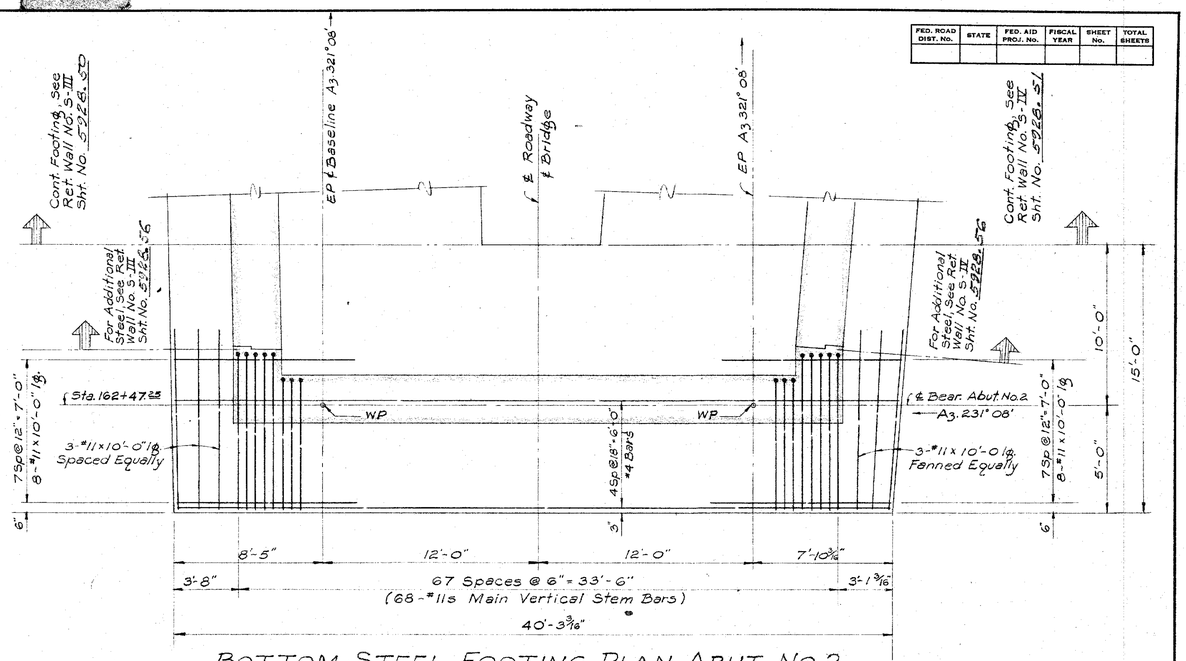
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



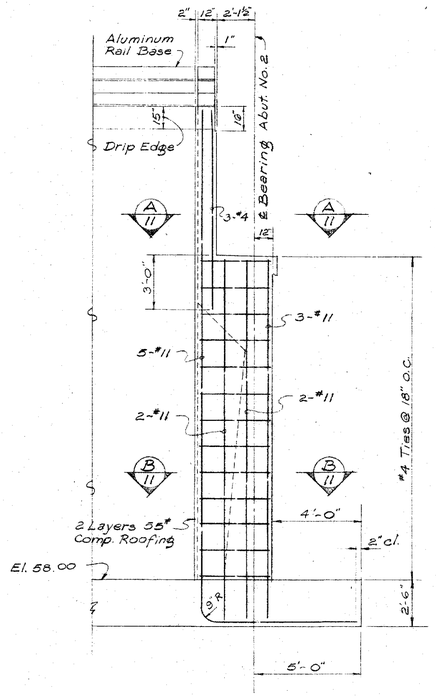
TOP STEEL FOOTING PLAN ABUT. NO. 2

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



BOTTOM STEEL FOOTING PLAN ABUT. NO. 2

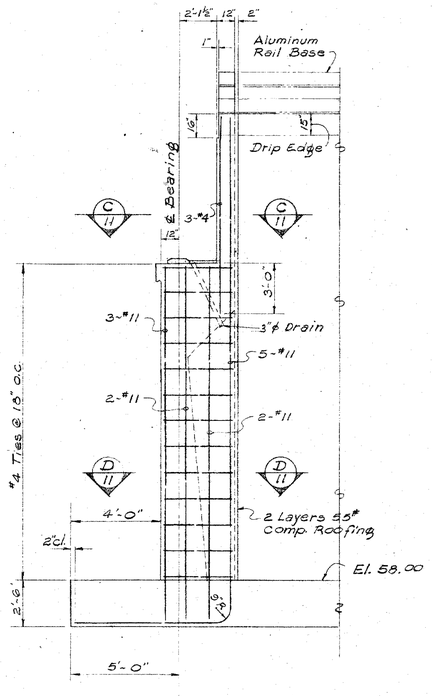
Scale: 1/4" = 1'-0"



ELEVATION E 11

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

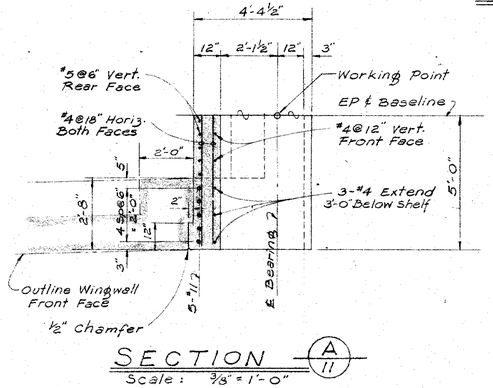
See Sht. No 10



ELEVATION F 11

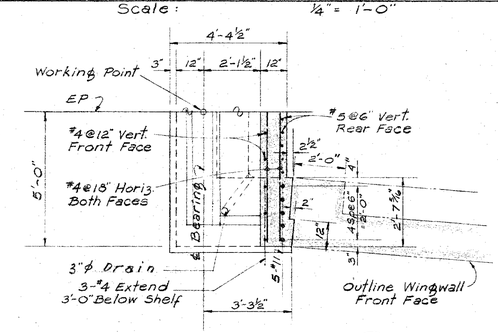
Scale: 1/4" = 1'-0"

See Sht. No 10



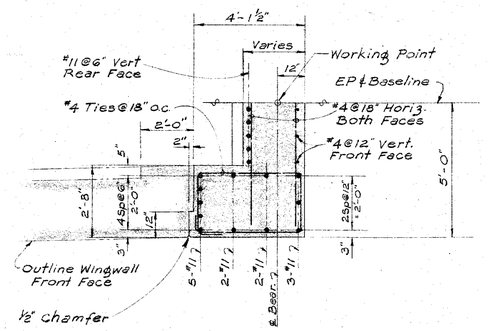
SECTION A 11

Scale: 3/8" = 1'-0"



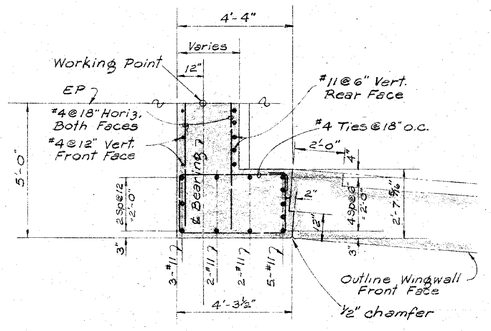
SECTION C 11

Scale: 3/8" = 1'-0"



SECTION B 11

Scale: 3/8" = 1'-0"



SECTION D 11

Scale: 3/8" = 1'-0"

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE NO. 2

Base Line Sta. 160+23.2 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

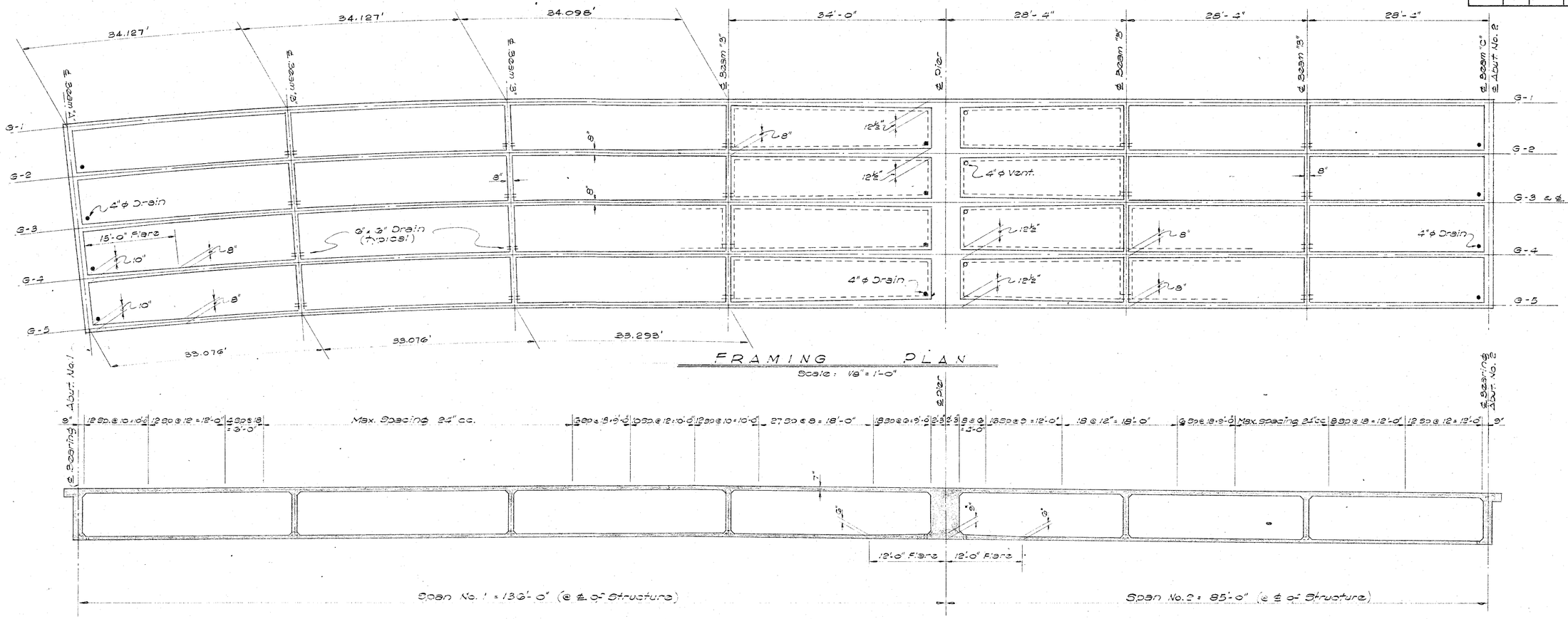
ORIGINAL PLAN	SURVEY PLOTTED BY:	DATE:
	DESIGNED BY:	
	DRAWN BY:	
	TRACED BY:	
NOTE BOOK	QUANTITIES BY:	
No.	CHECKED BY:	

SHEET No. 11 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.90

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

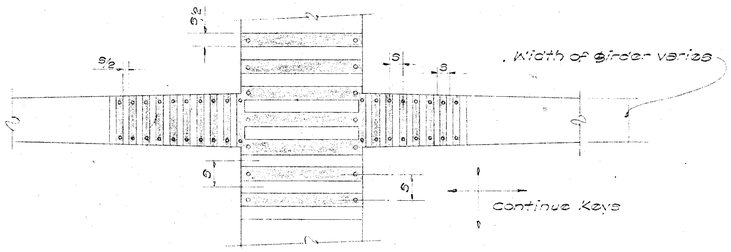


FRAMING PLAN

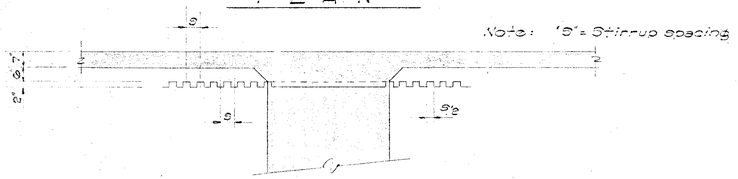
Scale: 1/8" = 1'-0"

GIRDER STIRRUP SPACING

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



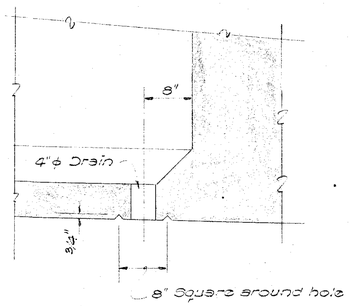
PLAN



ELEVATION

SHEAR KEYS DETAIL

Scale: 3/8" = 1'-0"



TYPICAL 4 IN. DRAIN DET.

Scale: 1" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
	TRACED BY	
NOTE BOOK	QUANTITIES BY	
No.	CHECKED BY	
	CHECKED BY	

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta 100+23.12 To Sta 102+50.38

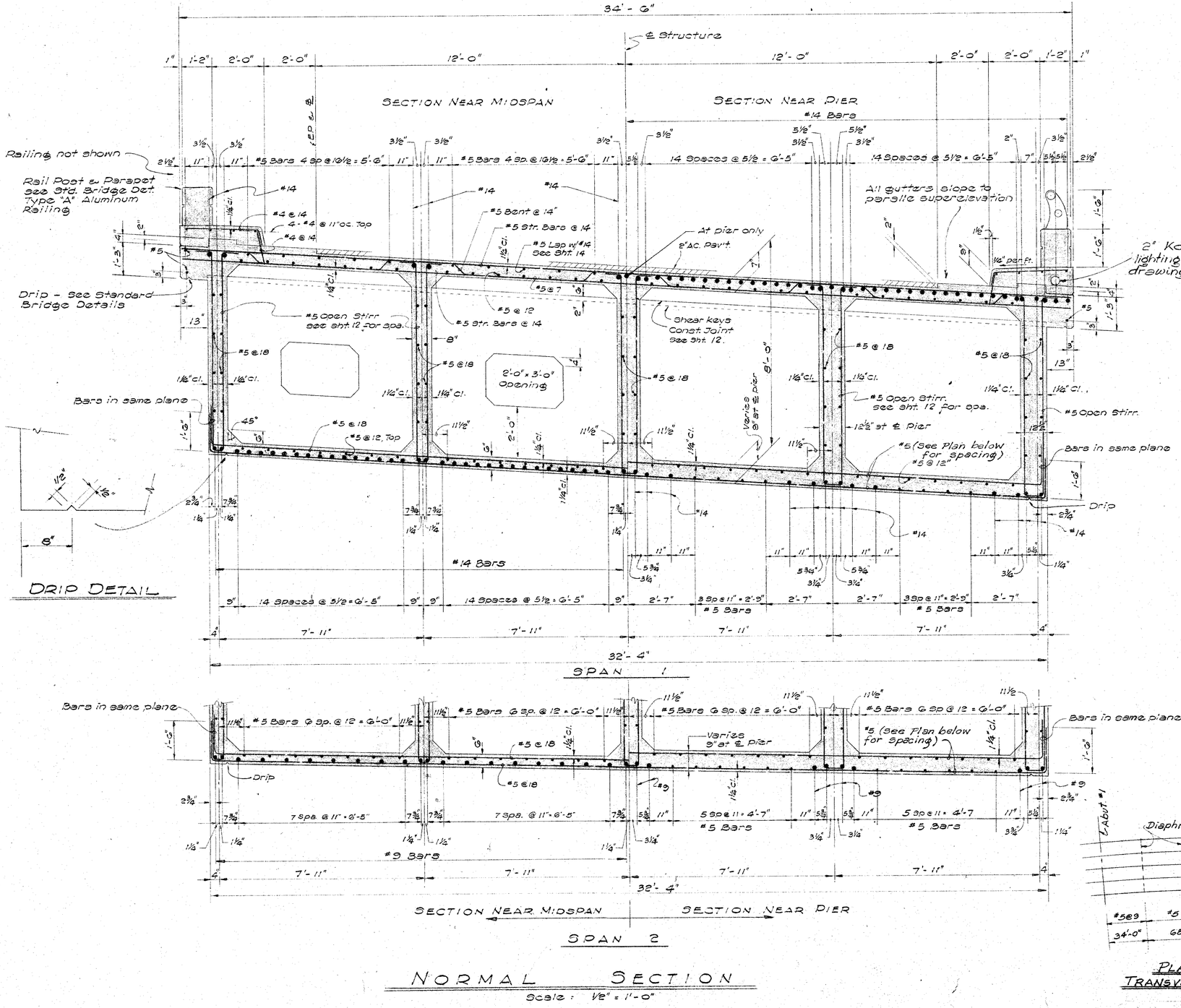
VINEYARD BOULEVARD
PROJECT NO F-098-1-(3)

SHEET No. 12 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.91

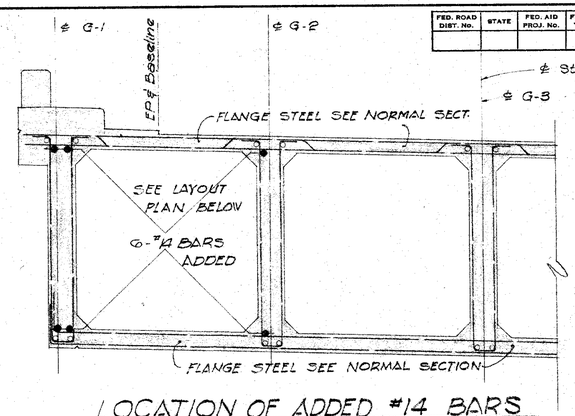
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



DRIP DETAIL

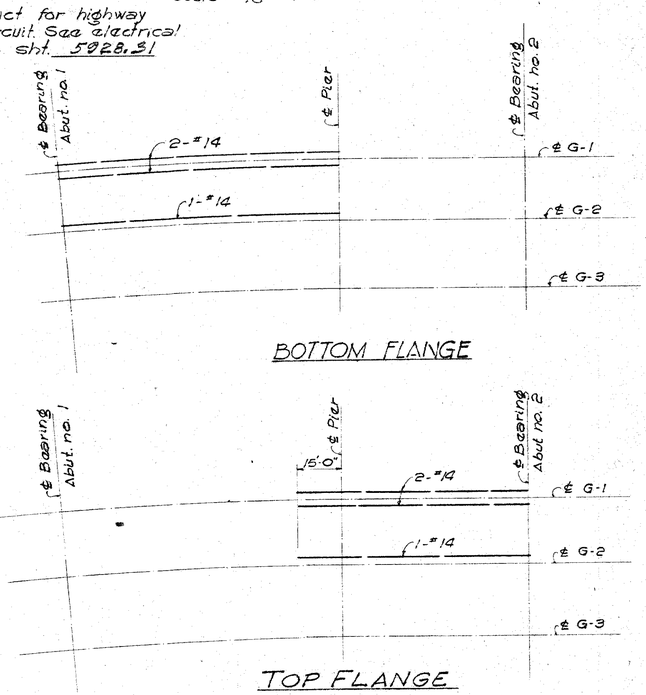
NORMAL SECTION

Scale : ½" = 1'-0"



LOCATION OF ADDED #14 BARS

Scale : 3/8" = 1'-0"

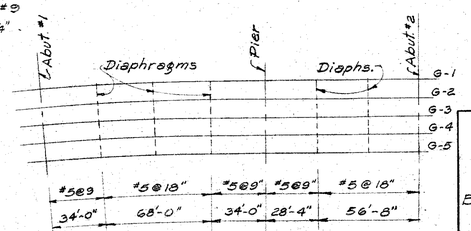


BOTTOM FLANGE

TOP FLANGE

LAYOUT OF ADDED #14 BARS

No Scale



PLAN - BOTTOM SLAB TRANSVERSE REINF. LAYOUT

No Scale

ALFRED A. YEE REGISTERED STRUCTURAL ENGINEER No. 718 HAWAII, U.S.A.

SATOSHI DON SHIMAZU REGISTERED PROFESSIONAL ENGINEER No. 710 HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.88

VINEYARD BOULEVARD
PROJECT No. F-028-1-(3)

SHEET No. 13 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.92

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	SURVEY CHK'D BY	
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	CHECKED BY	
NOTE BOOK	QUANTITIES BY	
No.	QUANTITIES CHECKED BY	
	CHECKED BY	

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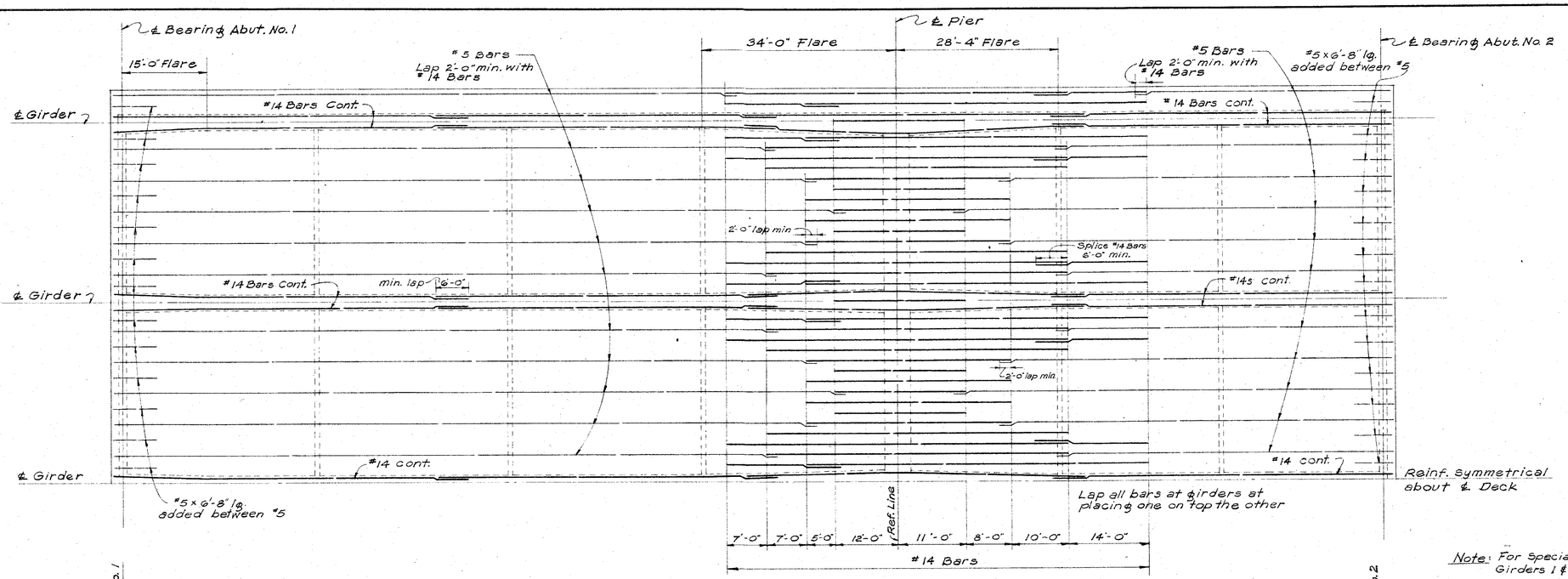
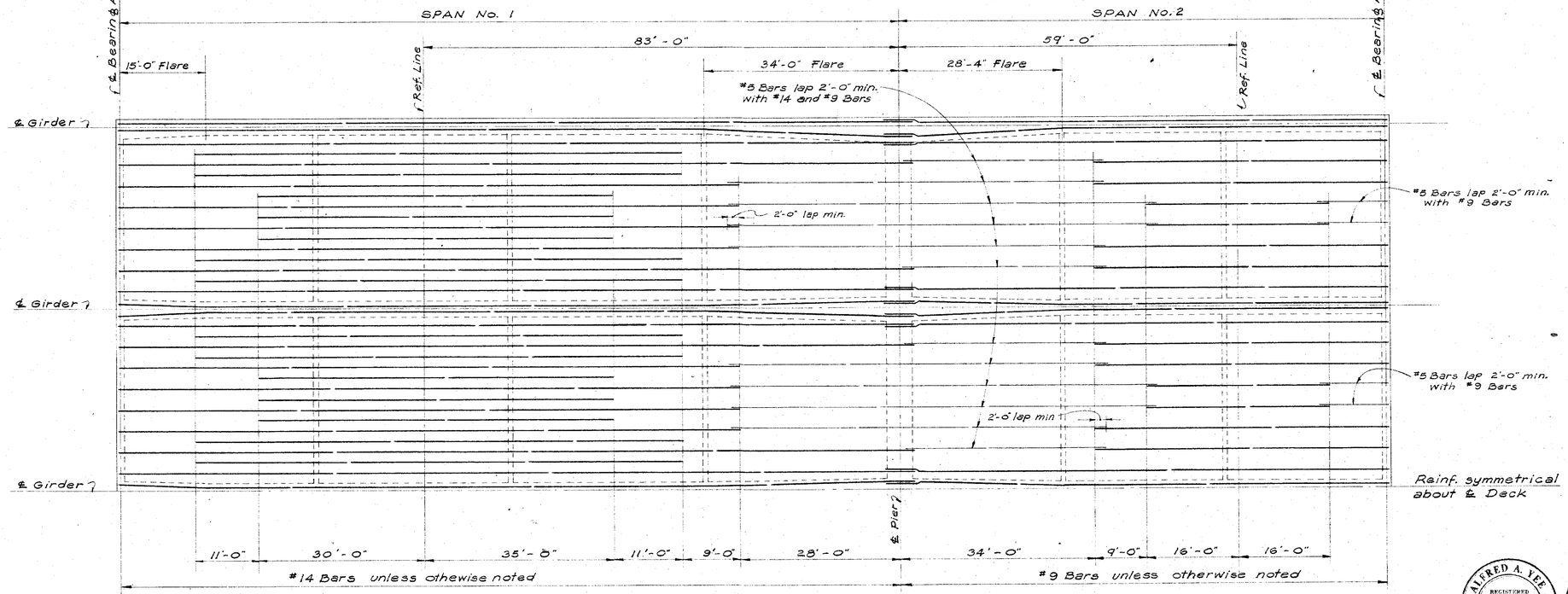
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



MAIN TOP FLANGE REINF. PLAN

Schematic Layout - scale: Length 3/32" = 1'-0" Width 3/8" = 1'-0"

Note: For Special Added Reinf. in Girders 1 & 2, See Sht. 13



MAIN BOT. FLANGE REINF. PLAN

Schematic Layout Scale: Length 3/32" = 1'-0" Width 3/8" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
	TRACED BY	
NOTE BOOK No.	QUANTITIES BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 160+23.12 To Sta. 162+50.39

VINEYARD BOULEVARD
PROJECT No. F-058-1-(3)

ALFRED A. YEE
REGISTERED STRUCTURAL ENGINEER
No. 718
HAWAII, U.S.A.

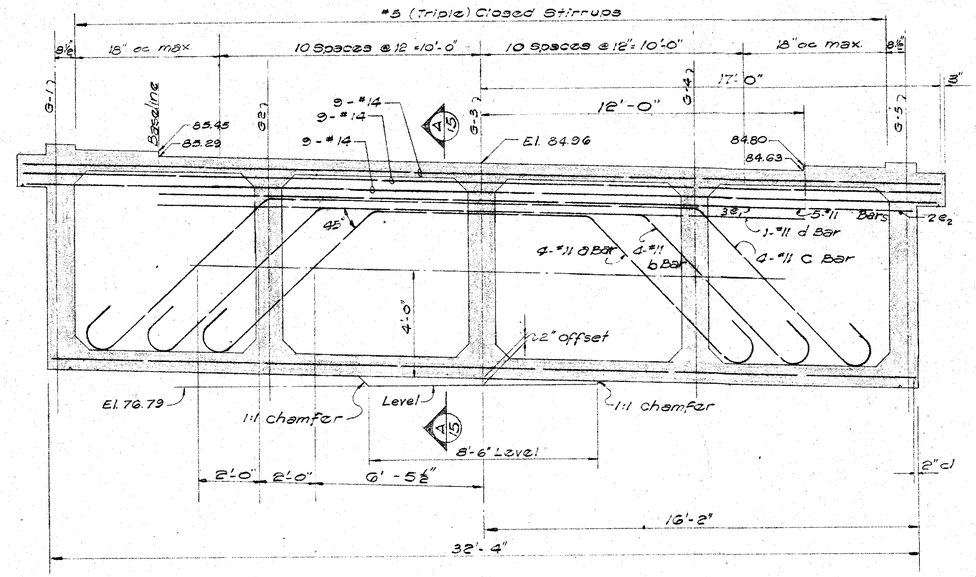
SATOSHI DON SHIMAZU
REGISTERED PROFESSIONAL ENGINEER
No. 710
HAWAII, U.S.A.

SHEET No. 14 OF 16 SHEETS

CONSULTANT SUBMISSION 5928.93

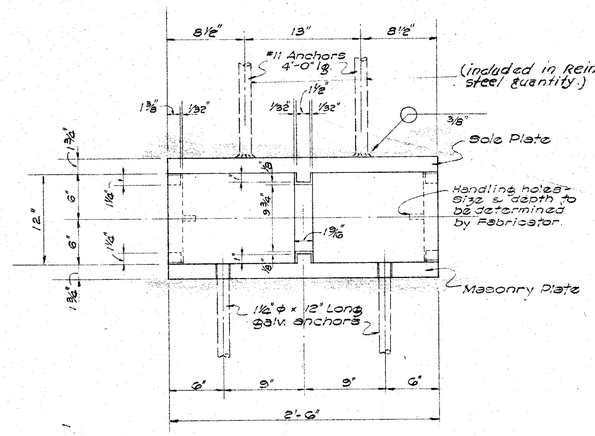
PRINTED ON DIEPO 1000H CLEARPRINT

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS



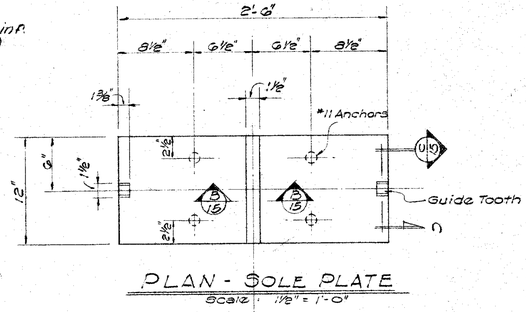
BEAM "D" (OVER PIER)

scale: ⅝" = 1'-0"



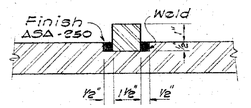
END ELEVATION

scale: 1½" = 1'-0"



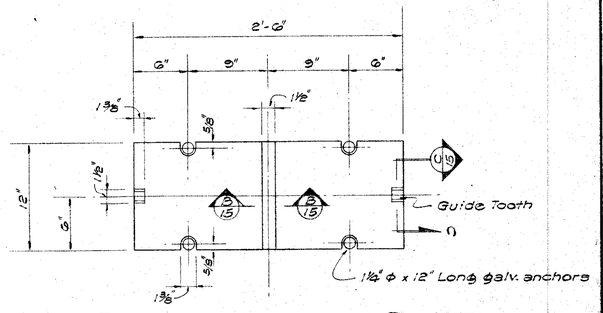
PLAN - SOLE PLATE

scale: 1½" = 1'-0"



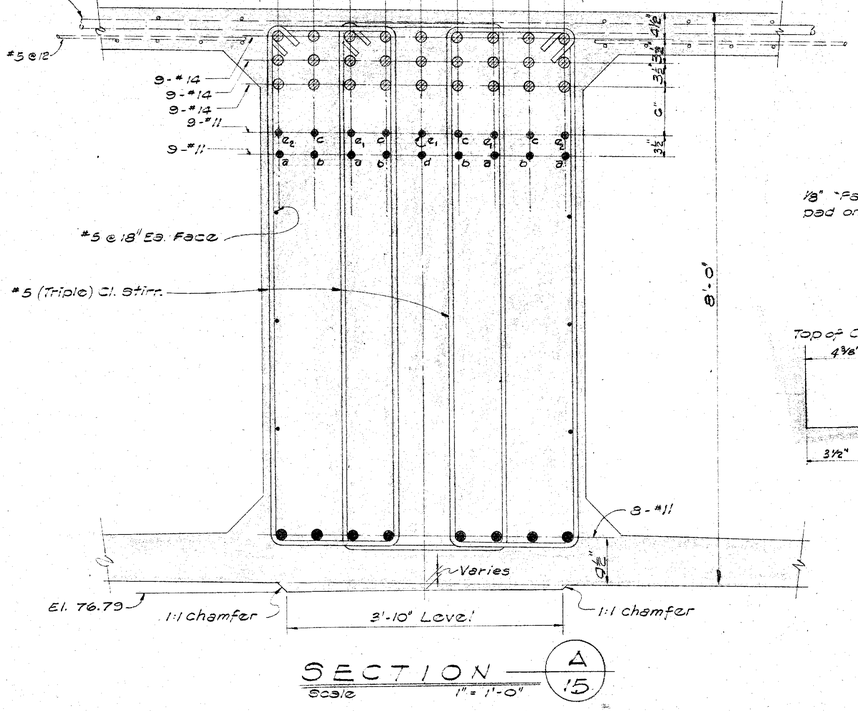
SECTION — B/15

scale: 3" = 1'-0"



PLAN - MASONRY PLATE

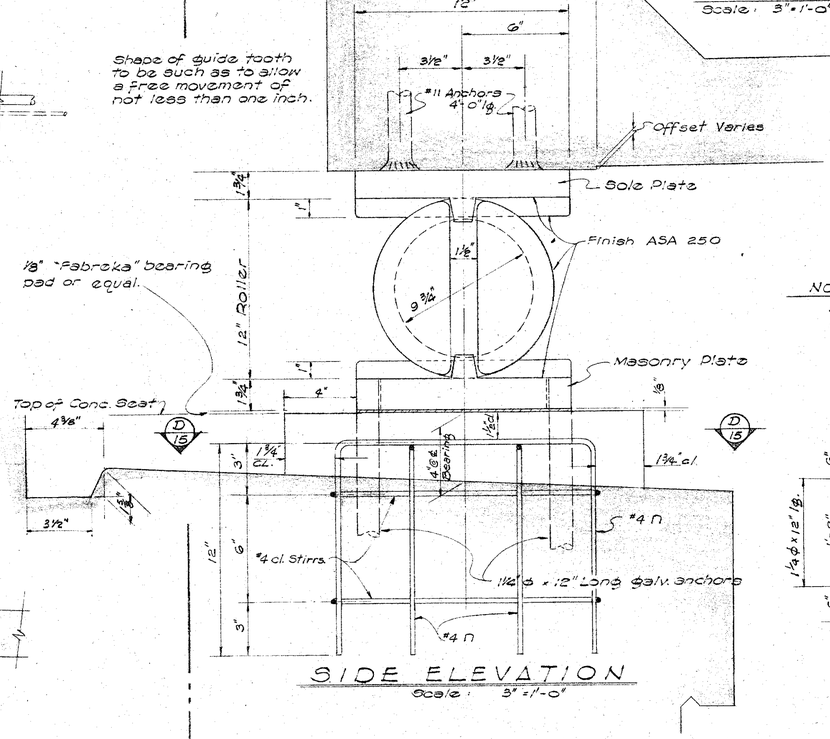
scale: 1½" = 1'-0"



SECTION — A/15

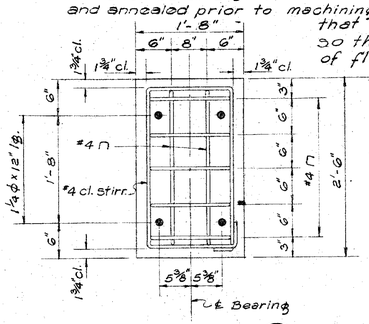
scale: 1" = 1'-0"

Shape of guide tooth to be such as to allow a free movement of not less than one inch.



SIDE ELEVATION

scale: 3" = 1'-0"

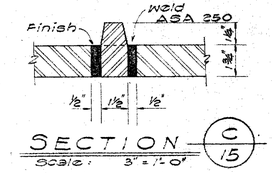


SECTION — D/15

scale: 1" = 1'-0"

NOTES:

All plates for bearing shall be Structural Carbon Steel ASTM Designation A-7. Rollers shall be Structural Carbon Steel ASTM Designation A235 (Class C-1) They shall be accurately turned to the dimension shown on the drawings and shall be straight, smooth and free from flaws. They shall be forged and annealed prior to machining. The Contractor shall order forgings that are straight and of sufficient size so that the finished roller will be free of flaws and forge marks. Any rollers showing forge marks or flaws shall be rejected. (See Special Provisions) Sole Pl., roller, masonry Pl. and 1½" ϕ x 12" anchor shall be hot-dip galvanized.



SECTION — C/15

scale: 3" = 1'-0"

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE No. 2

Base Line Sta. 100+23.2 To Sta. 102+50.38

VINEYARD BOULEVARD
PROJECT No. F-098-1-(3)

DETAILS OF EXPANSION BEARING

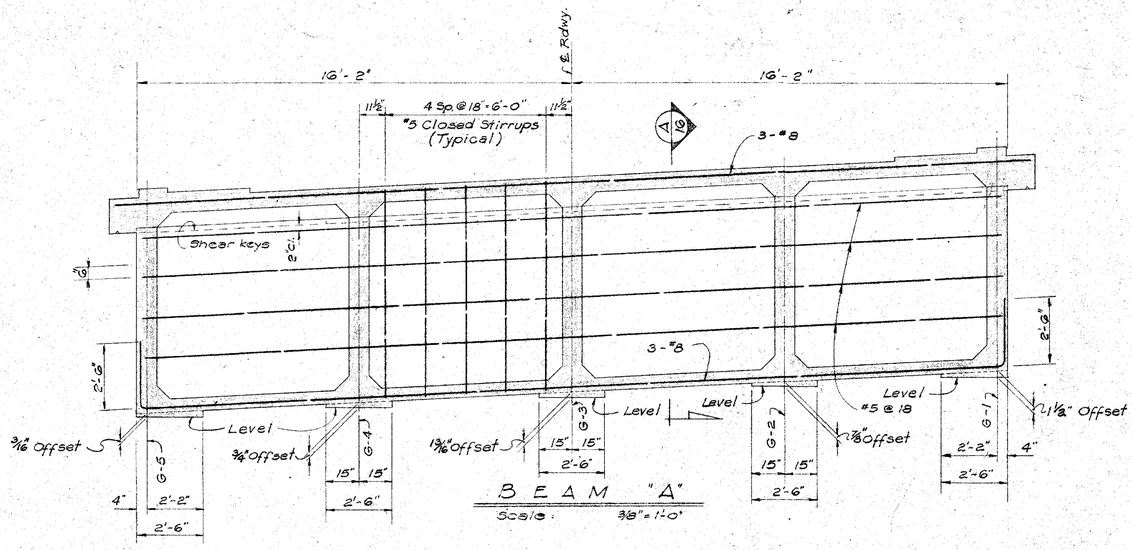
SHEET No. 15 OF 16 SHEETS

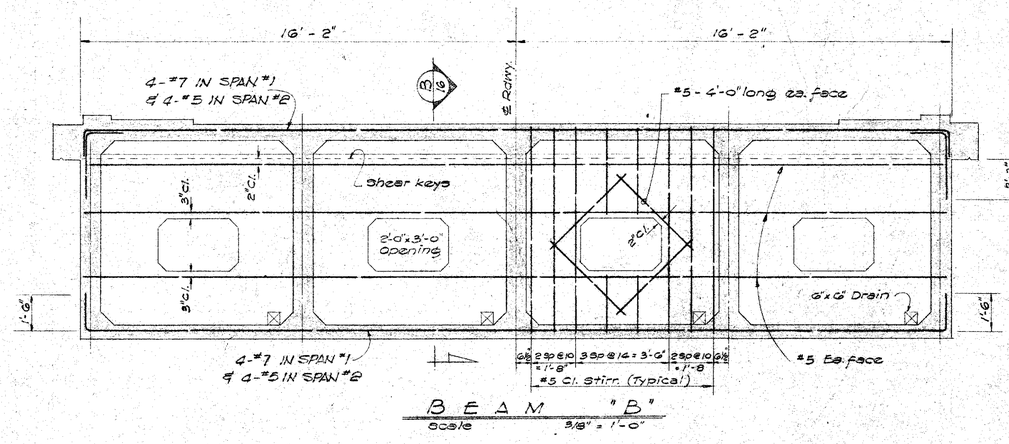
CONSULTANT SUBMISSION

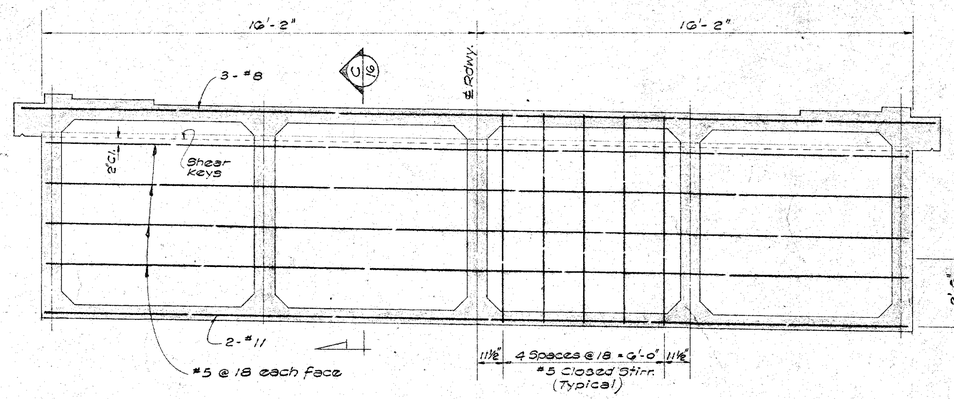
5928.94

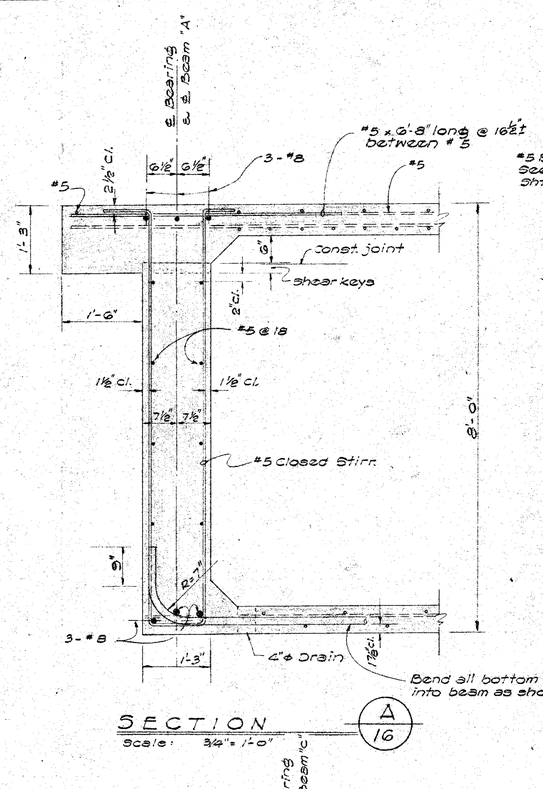
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
	DRAWN BY	
NOTE BOOK No.	TRACED BY	
	QUANTITIES CHECKED BY	
	CHECKED BY	

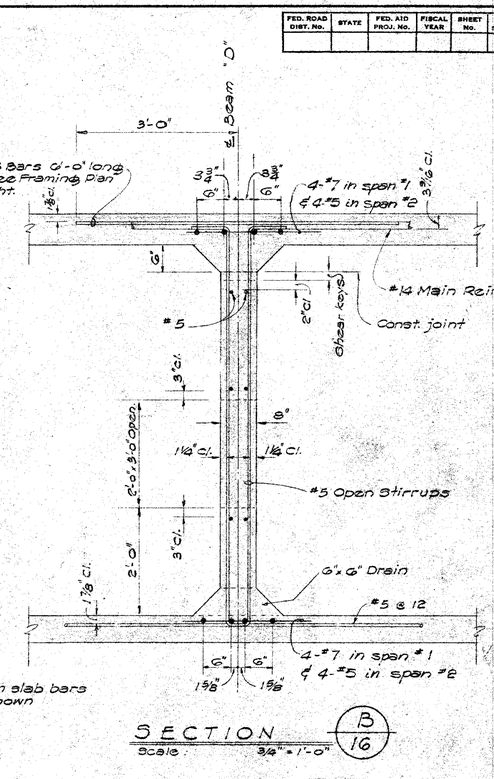
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

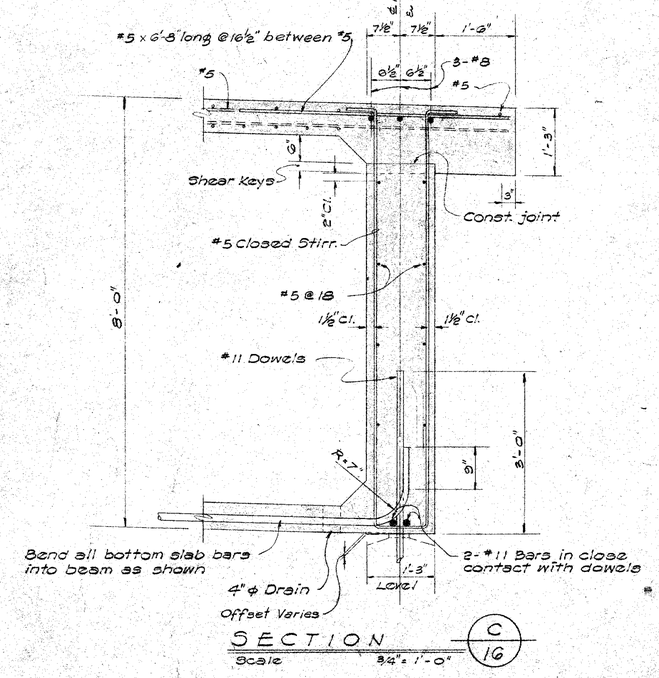












ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	
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NOTE BOOK No.	CHECKED BY	

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BRIDGE No 2

Base Line Sta. 160+23.12 To Sta. 162+50.38

VINEYARD BOULEVARD
PROJECT No. F-058-1-(3)

SHEET No. 16 OF 16 SHEETS

CONSULTANT SUBMISSION

5928.95