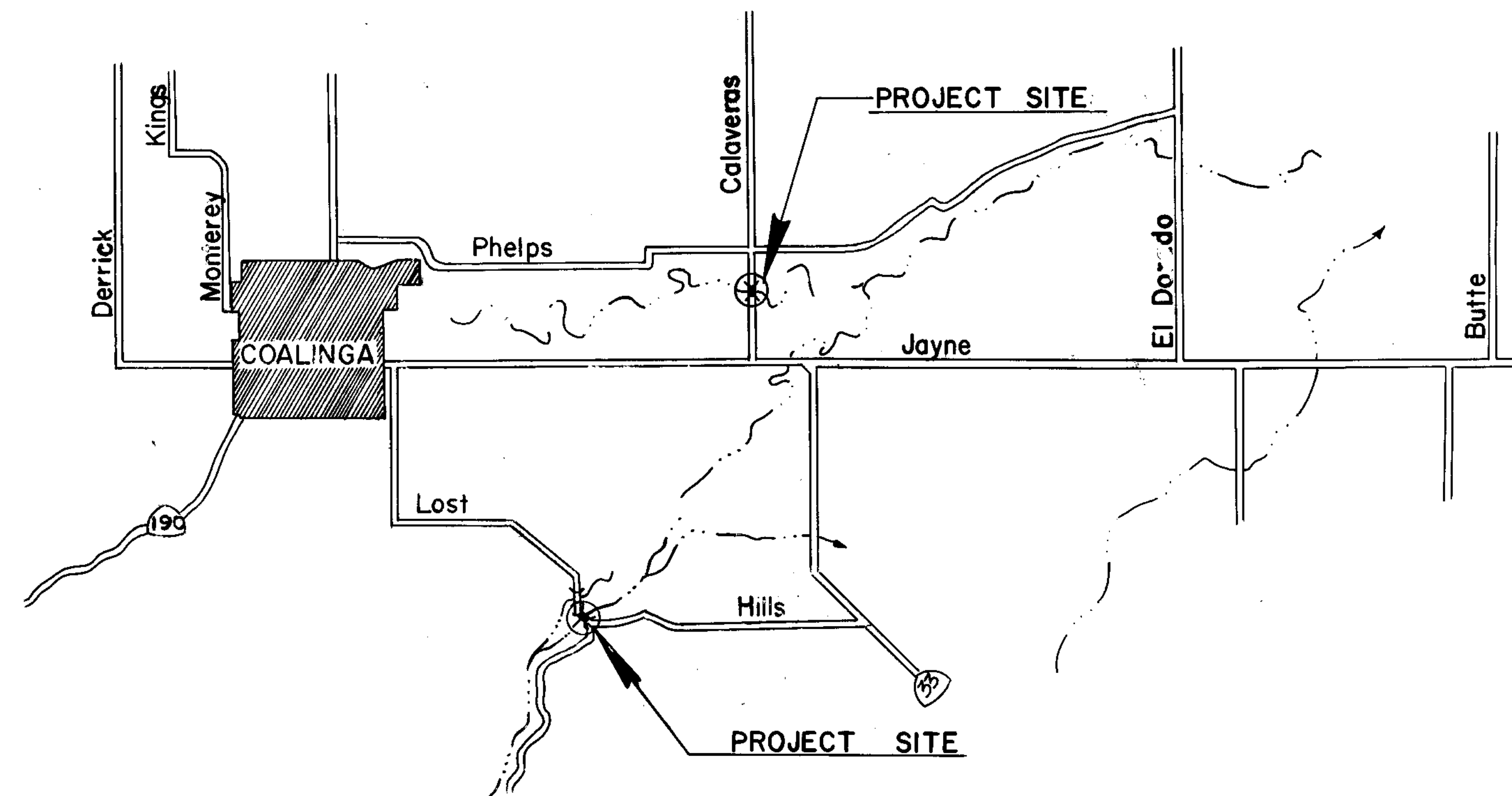
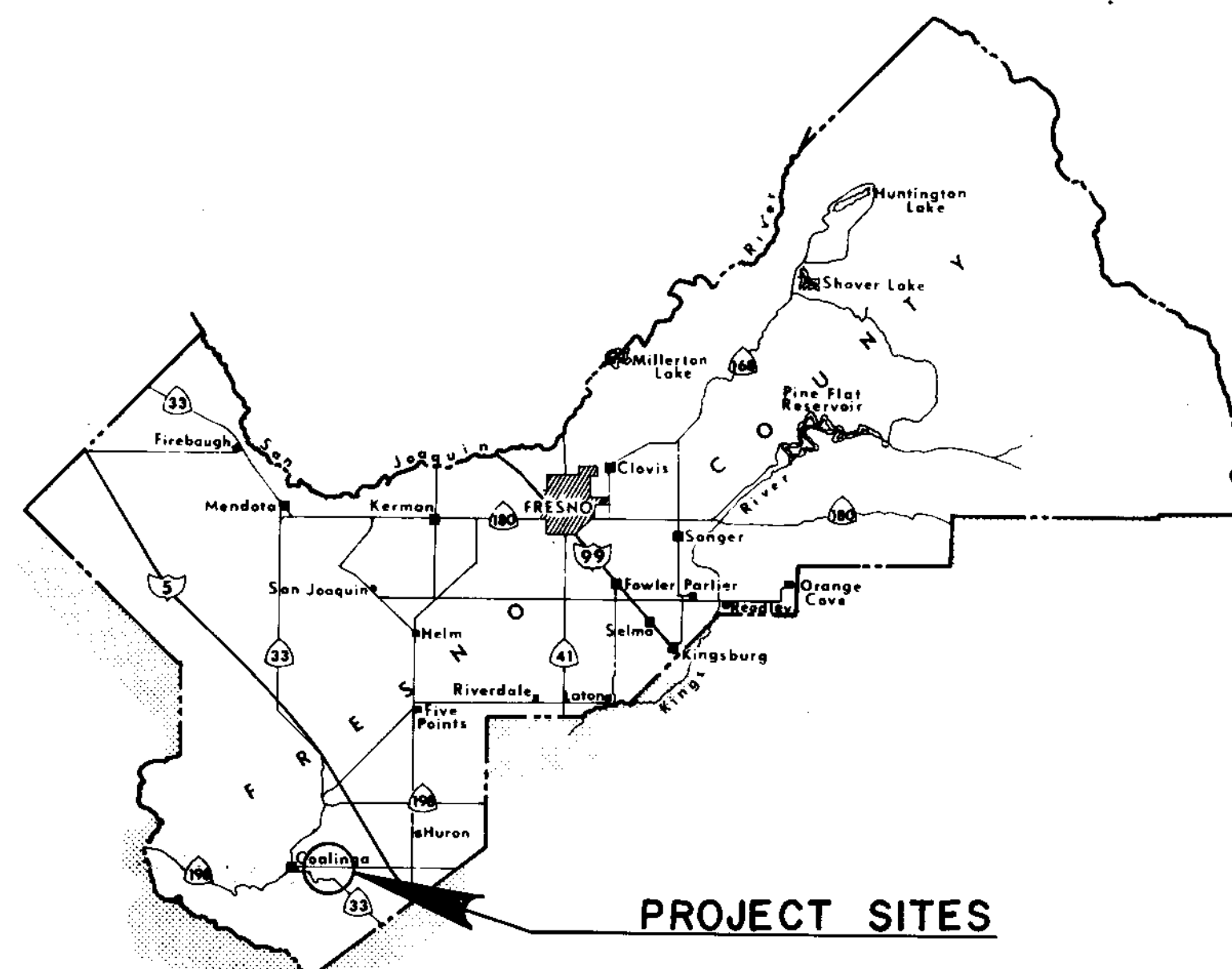


**DEPARTMENT OF PUBLIC WORKS  
COUNTY OF FRESNO  
PLANS FOR CONSTRUCTION**

**LOS GATOS CREEK BRIDGE**  
Calaveras Avenue 0.64 miles n/o Jayne Avenue  
**JACALITOS CREEK BRIDGE**  
Lost Hills Road 2.28 miles e/o Merced Avenue

INDEX OF SHEETS

- SHEET NO. 1 TITLE PAGE
- SHEET NO. 2 SITE PLAN LOS GATOS BRIDGE
- SHEET NO. 3 FOUNDATION PLAN & CONST. DETAILS
- SHEET NO. 4 BRIDGE PLAN & CONST. DETAILS
- SHEET NO. 5 DOUBLE-TEE DETAILS
- SHEET NO. 6 BRIDGE RAILING, PILE DETAIL & CONST. DETAIL
- SHEET NO. 7 LOG OF TEST BORINGS
- Applicable Standard Plans July 1969
- PAGE NO. A62-B.2
- SHEET NO. 8 SITE PLAN JACALITOS BRIDGE
- SHEET NO. 9 FOUNDATION PLAN
- SHEET NO. 10 SLAB DETAILS
- SHEET NO. 11 WINGWALL & RAILING DETAILS
- SHEET NO. 12 LOG OF TEST BORINGS



APPROVAL RECOMMENDED *Laura H. Horder*  
Civil Engineer License No. 14725  
APPROVED *Clinton D. Beery*  
Director of Public Works  
Civil Engineer License No. 9345

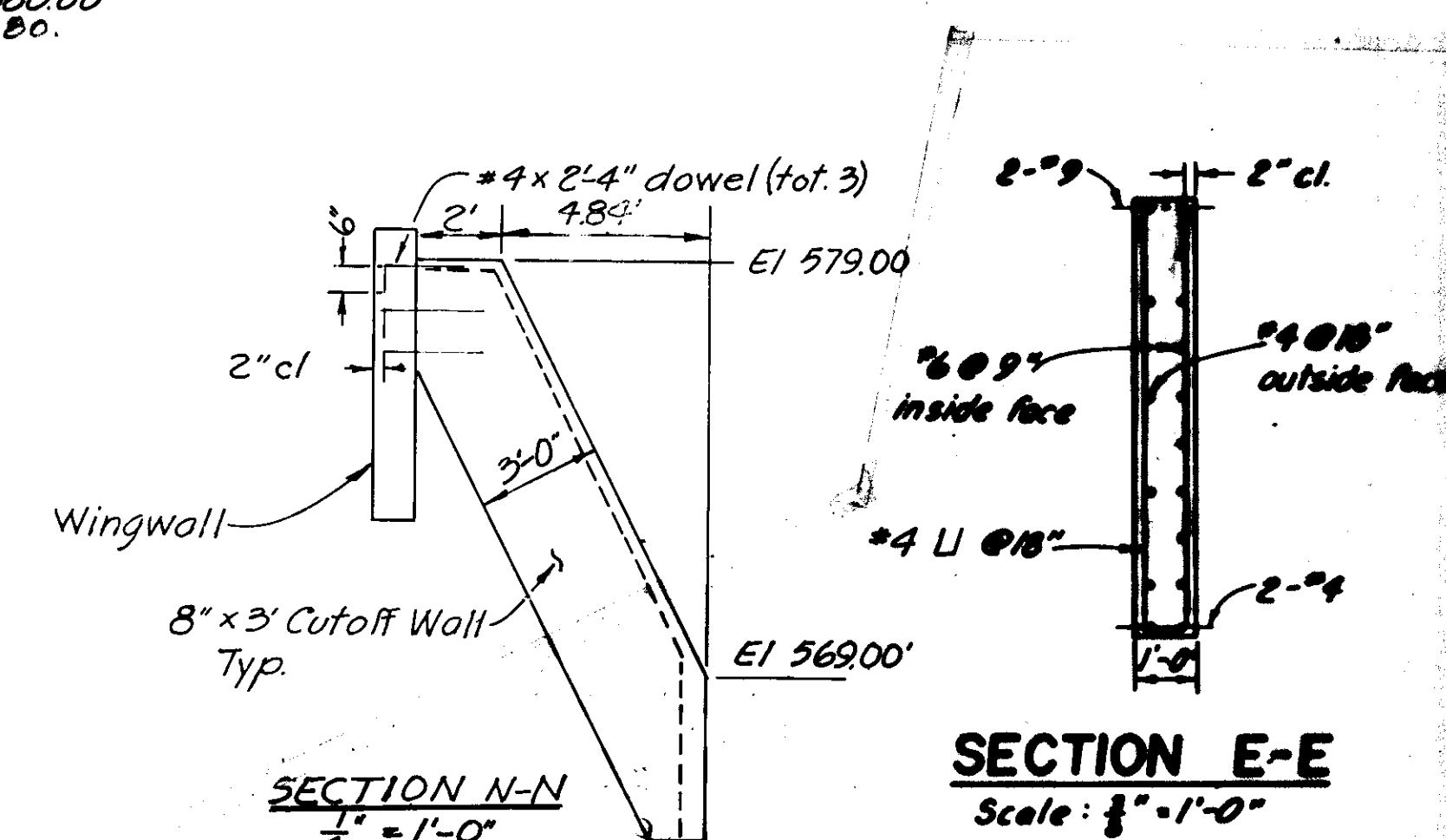
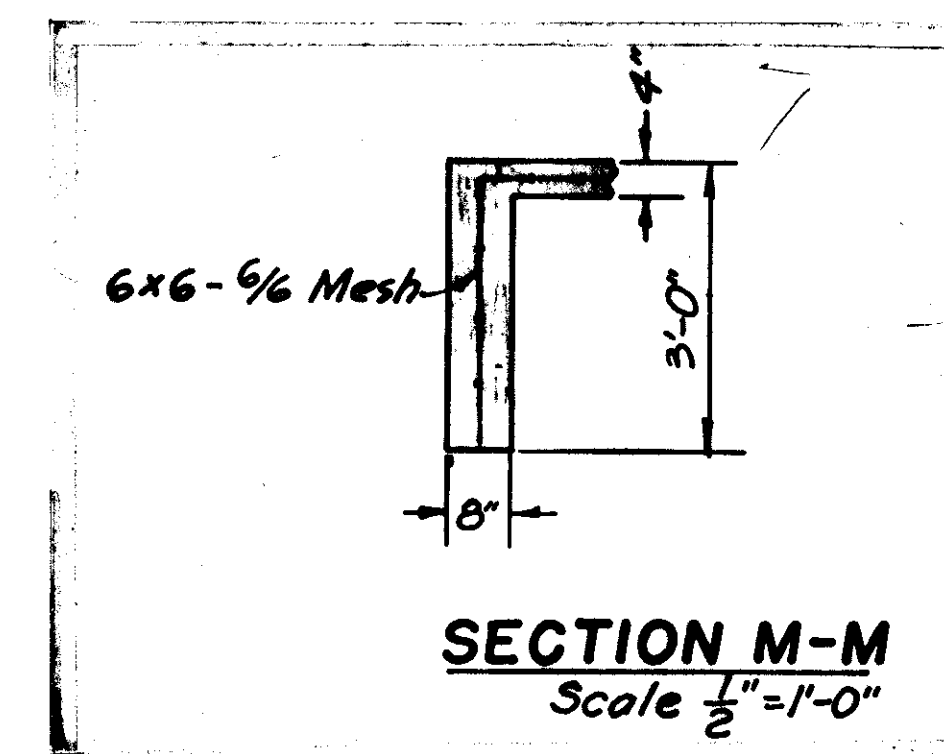
APPROVED *John J. Horder*  
Chairman Board of Supervisors  
APPROVAL DATE June 2, 1970

69-29-C  
W. J. Horder  
1970

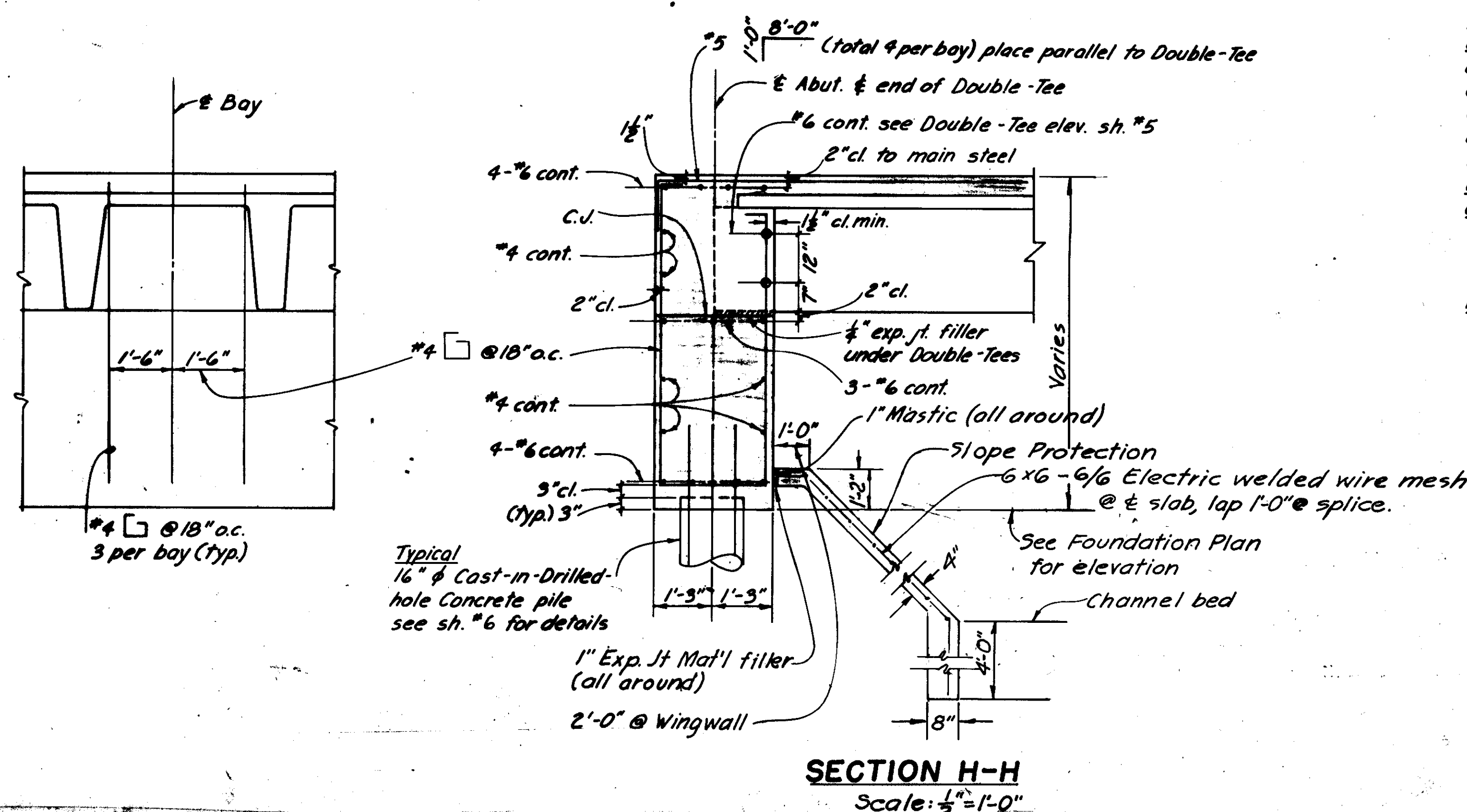






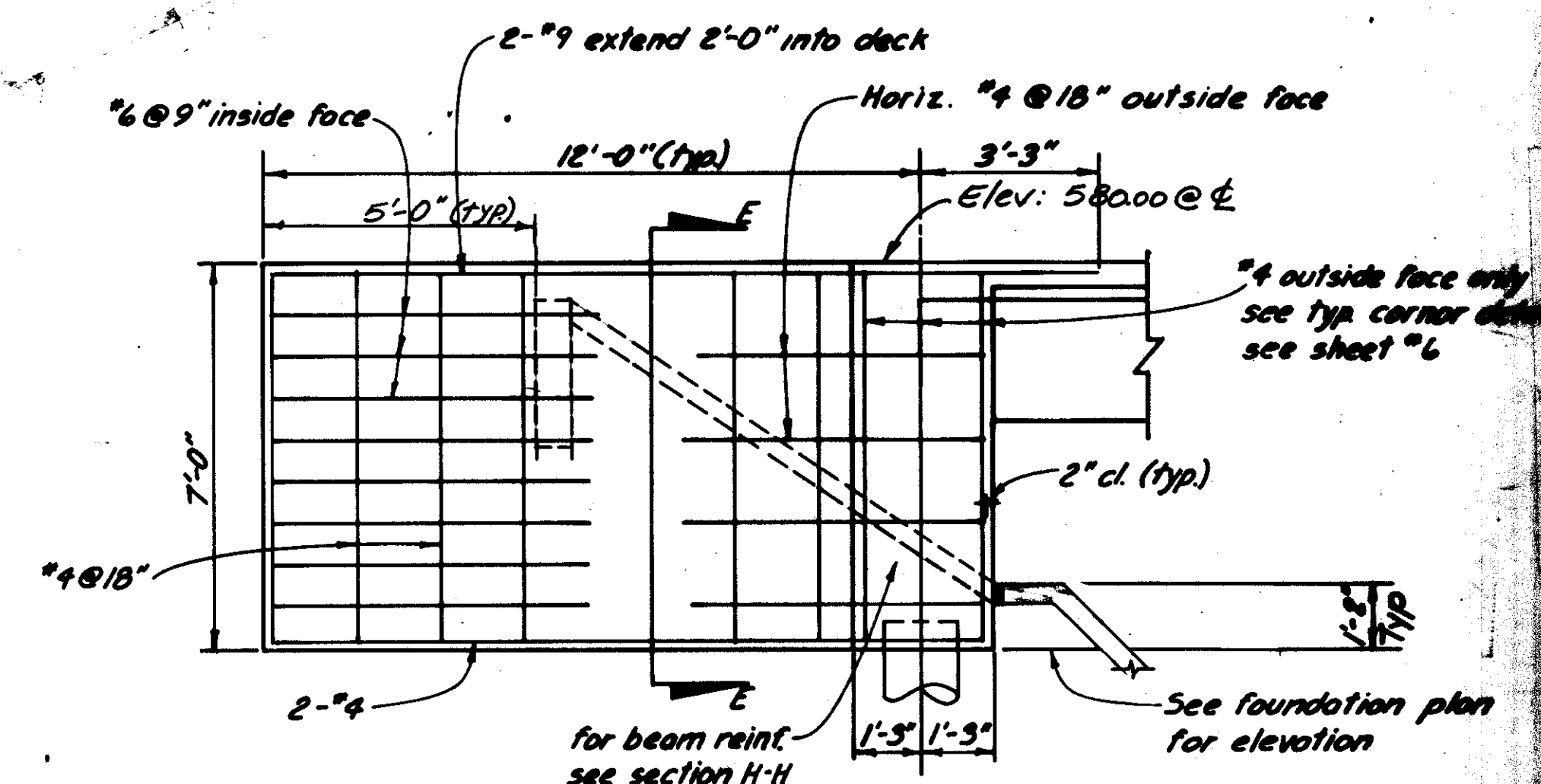


| Pile # | Gr: Elev. | Tip Elev |
|--------|-----------|----------|
| 21     | 572.43    | 532.97   |
| 22     | "         | 532.97   |
| 23     | "         | 531.42   |
| 24     | "         | 522.43   |



**General Notes**

**Specifications:**  
**Design:** A.A.S.H.O., dated 1965 with revisions and as supplemented by Bridge Planning and Design Manual, State of California.  
**Construction:** Standard specification, Division of Highways, State of California, dated January 1969 and the special Provisions.  
**LIVE LOADING:** HS-20-44 & Alternative  
**UNIT STRESSES:**  
**Reinforced Concrete:**  $F_s = 24,000 \text{ p.s.i.}$ ,  $N = 10$   
 $F_c = 1200 \text{ p.s.i.}$   
 $\text{Concrete slope protection: } F_c 800 \text{ p.s.i. } N = 15$   
**PILE LOADING:** Tons = 45.0  
 $\text{Type: } 16" \phi \text{ Cast-in-Drilled-Hole}$   
 $\text{Concrete pile}$



**TYPICAL WINGWALL DETAIL**  
Scale:  $\frac{3}{4}" = 1'-0"$

AS BUILT PLANS  
Corrected by *J. Bohiger*  
Date *11-9-90*

**COUNTY OF FRESNO - CALIFORNIA**  
DEPARTMENT OF PUBLIC WORKS  
HIGHWAYS AND BRIDGES

FOUNDATION PLAN CONST. DETAILS  
**LOS GATOS CREEK BRIDGE**  
**ON CALAVERAS AVENUE**

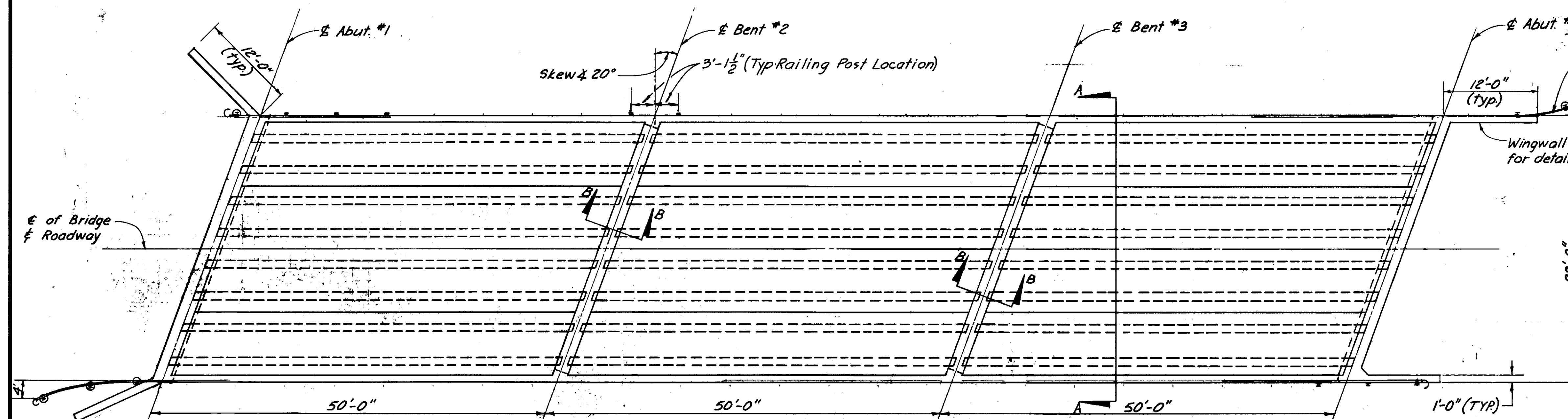
|                       |                   |                 |              |
|-----------------------|-------------------|-----------------|--------------|
| Designed: <u>S.H.</u> | Date: <u>6-70</u> | SCALE           | DRAWING NO.  |
| Drawn: <u>T.A.</u>    | <u>6-70</u>       | <u>as noted</u> | <u>5251-</u> |
| Checked: <u>S.H.</u>  | <u>6-70</u>       | BY <u>EC</u>    |              |

APPROVAL RECOMMENDED  14725  
DESIGN ENGINEER C. E. LICHAIRE

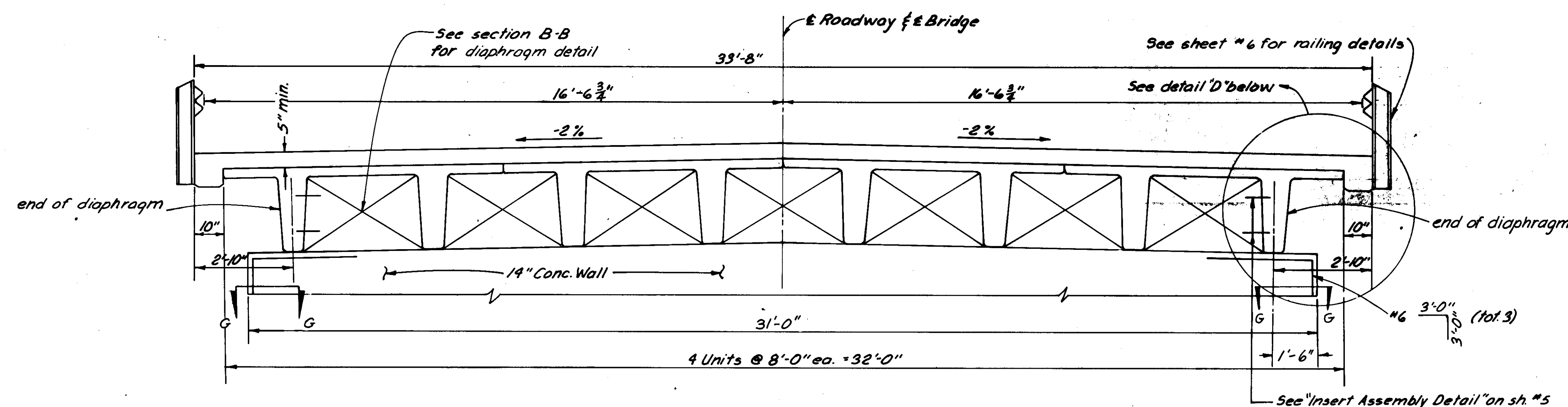
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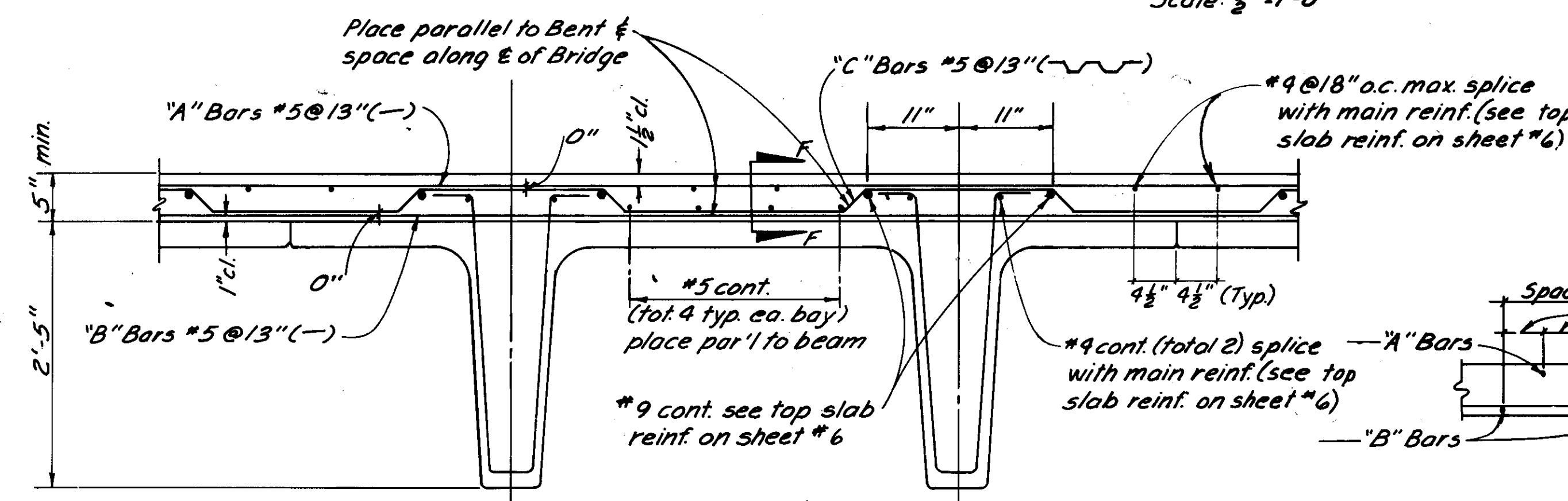
APPROVED: *Stacy Chis*  
 FRESNO COUNTY ASS'T. DIRECTOR OF PUBLIC WORKS  
 CIVIL ENGINEER LICENSE NO. 9076



**BRIDGE PLAN**  
 Scale:  $\frac{1}{2}$ " = 1'-0"

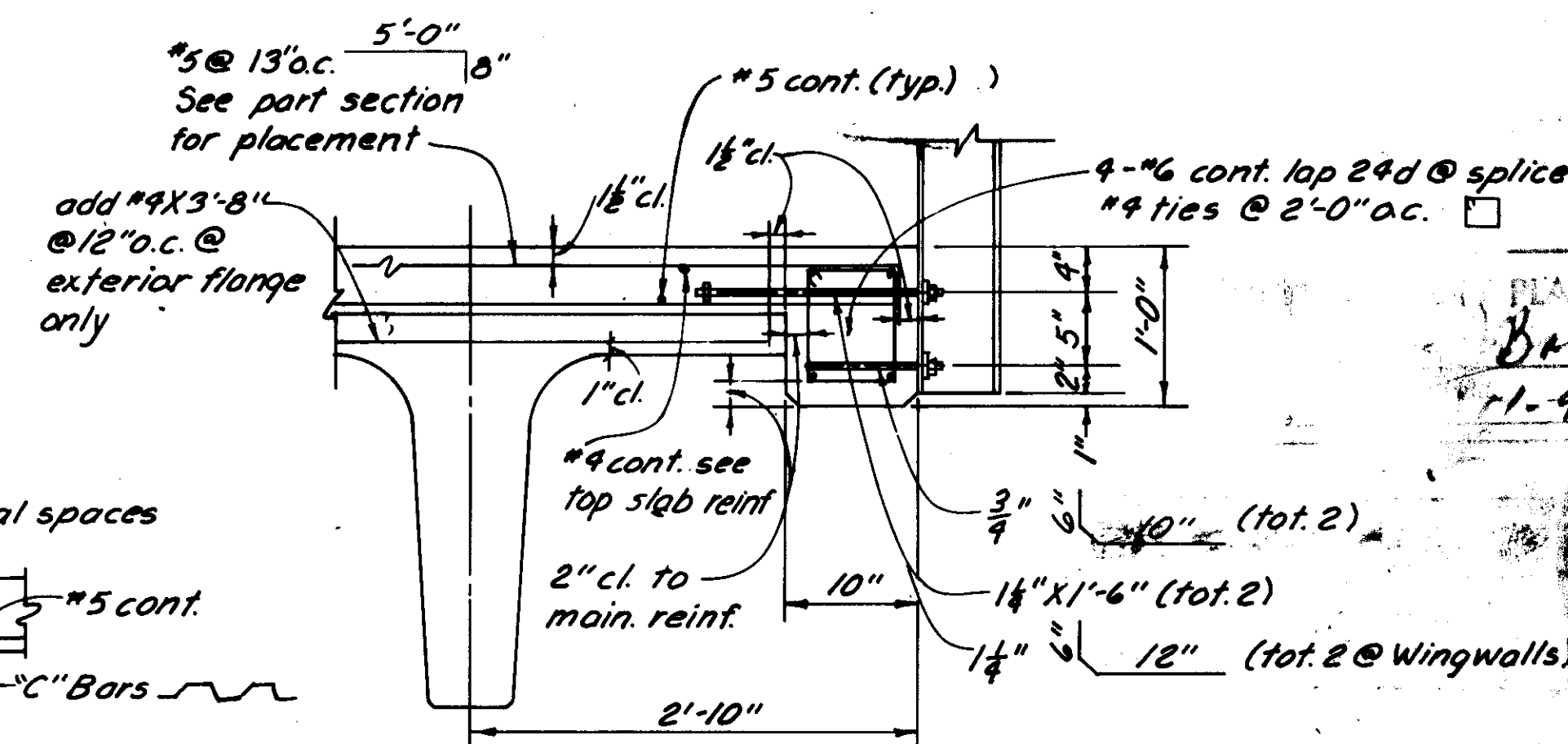


**TYPICAL SECTION A-A**  
 Scale:  $\frac{1}{2}$ " = 1'-0"

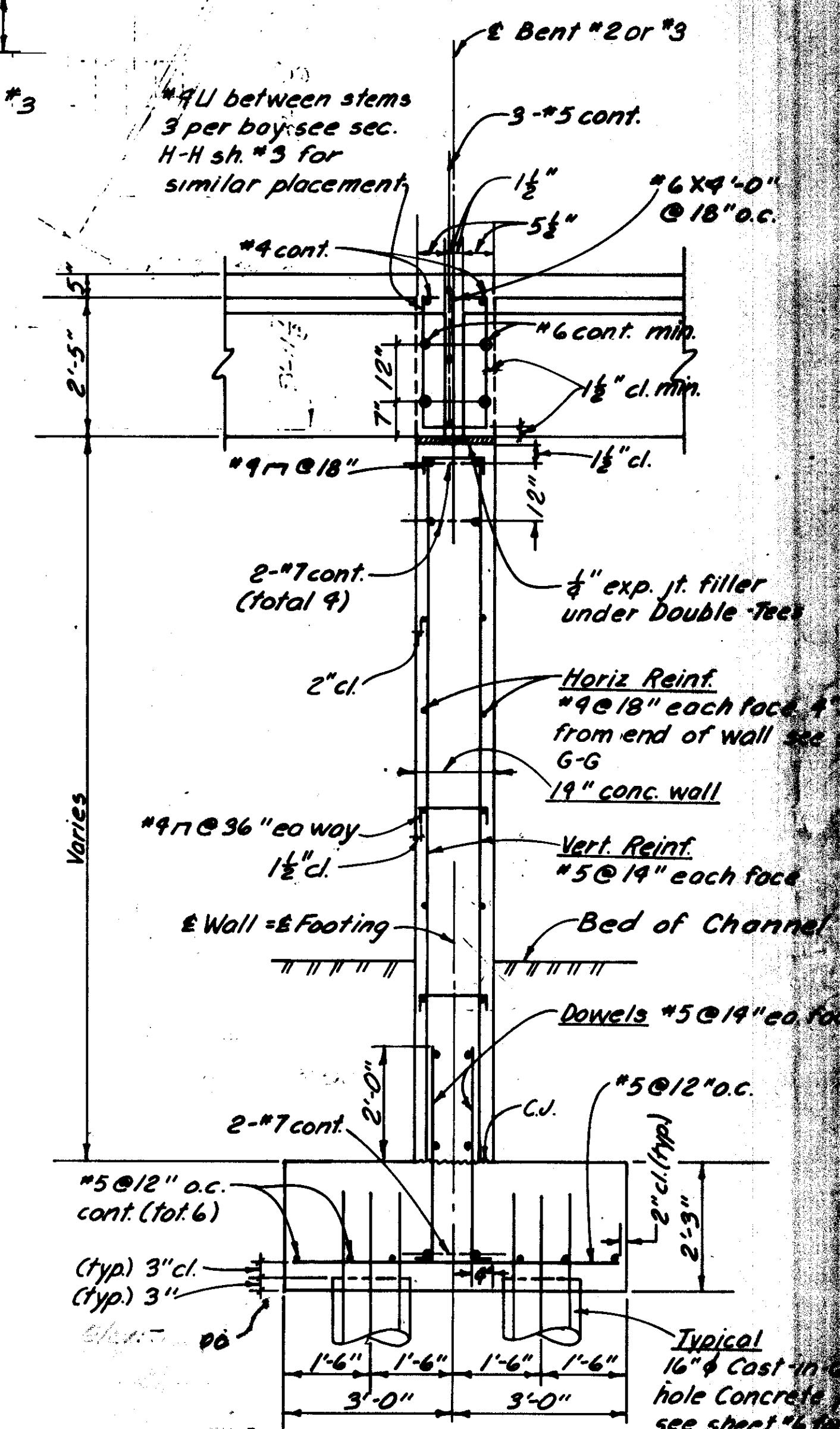


**PART SECTION**  
 Scale: 1" = 1'-0"

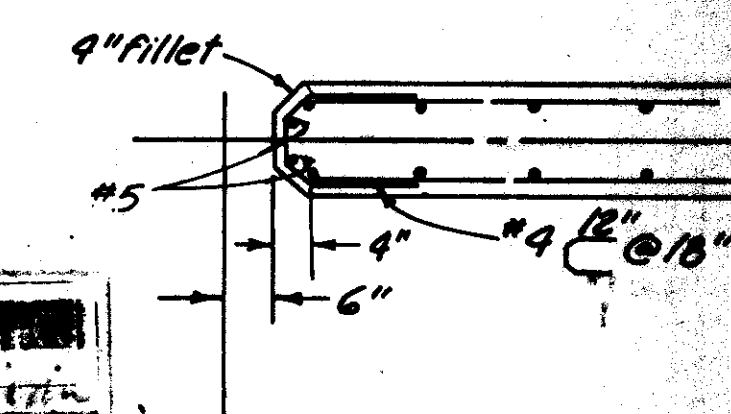
**SECTION F-F**  
 Scale:  $\frac{3}{4}$ " = 1'-0"



**DETAIL "D"**  
 Scale: 1" = 1'-0"



**SECTION B-B**  
 Scale:  $\frac{1}{2}$ " = 1'-0"



**SECTION G-G**  
 Scale:  $\frac{1}{2}$ " = 1'-0"

COUNTY OF FRESNO - CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAYS AND BRIDGES

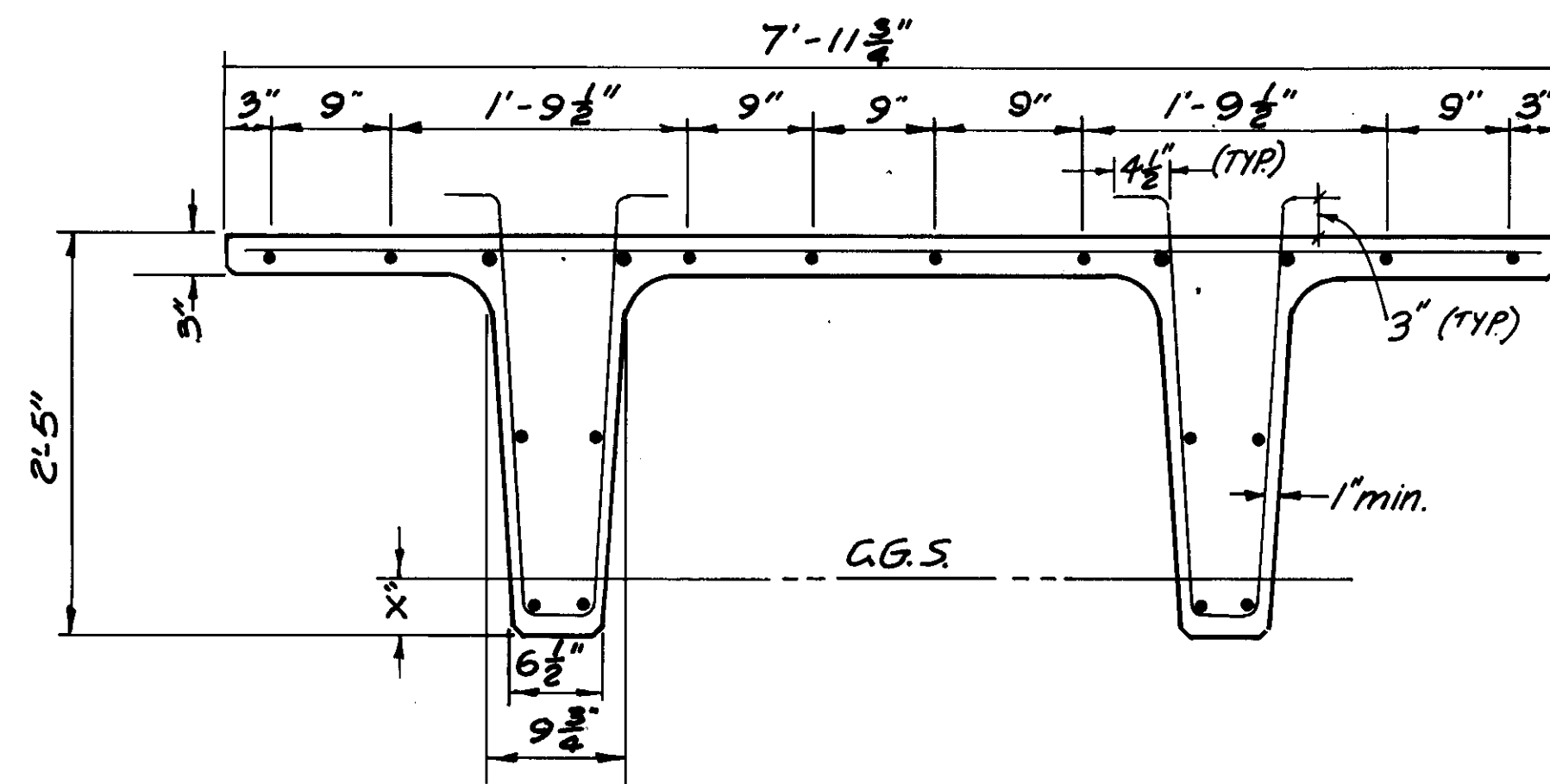
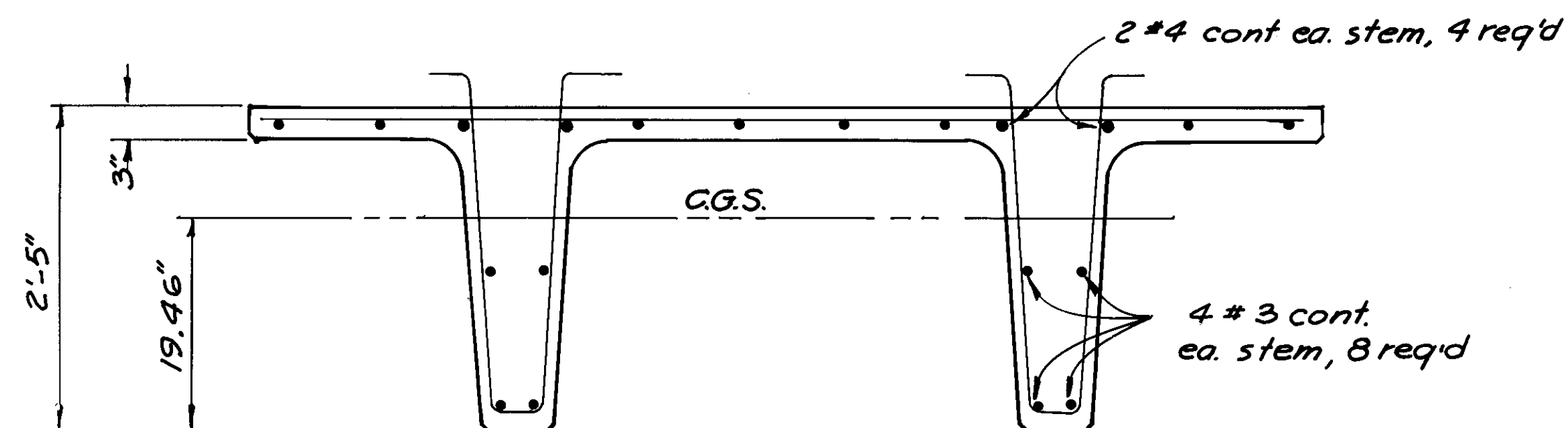
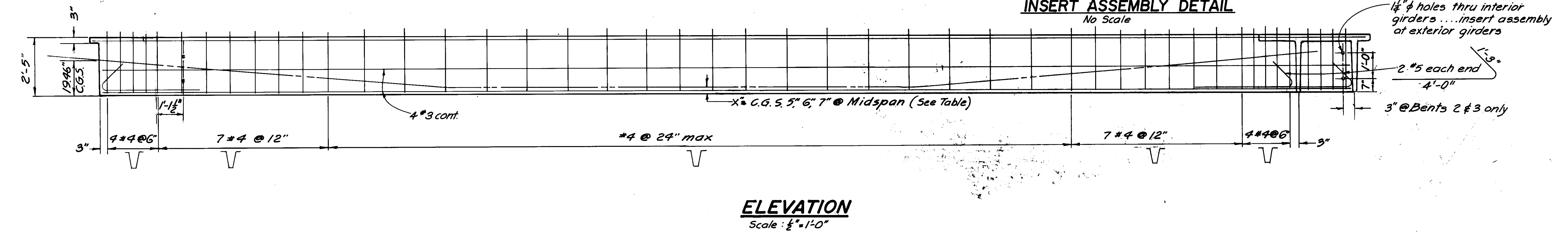
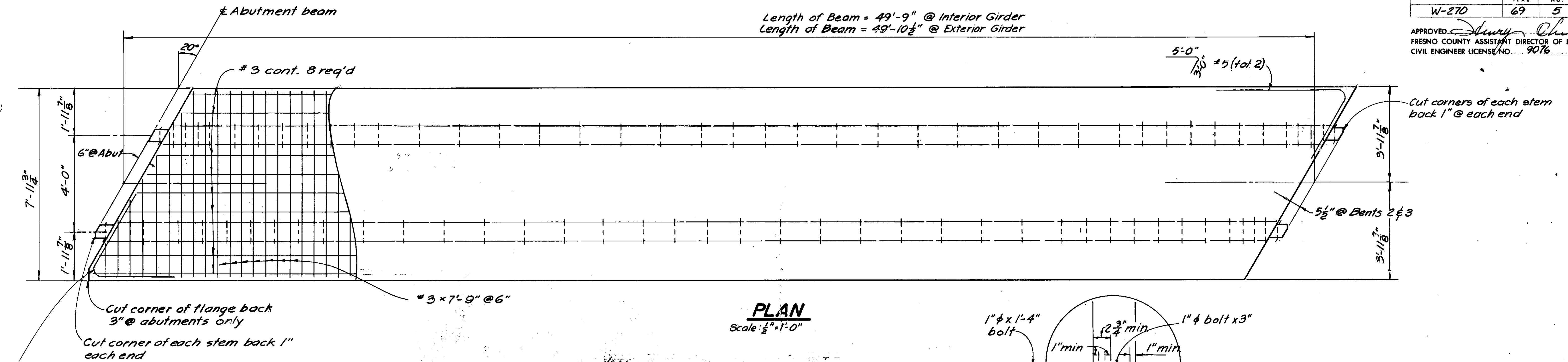
**CONSTRUCTION DETAIL  
 LOS GATOS CREEK  
 ON CALAVERAS AVENUE**

DESIGNED: *SH* DATE: 6-70  
 DRAWN: *SH* DATE: 6-70  
 CHECKED: *SH* DATE: 6-70  
 APPROVAL: *Stacy Chis* DATE: 6-70



| ROAD NUMBER | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|-------------|-------------|-----------|--------------|
| W-270       | 69          | 5         | 12           |

APPROVED: *Henry Chiu*  
FRESNO COUNTY ASSISTANT DIRECTOR OF PUBLIC WORKS  
CIVIL ENGINEER LICENSE NO. 9076



| Girder Length | P <sub>f</sub> = Working Force (Lb) |          | Concrete Strength |                                                 | Deflection at 1/2 Span due to CIP Slab          | Camber at 1/2 Span |
|---------------|-------------------------------------|----------|-------------------|-------------------------------------------------|-------------------------------------------------|--------------------|
|               | X                                   | Post-Ten | Pre-Ten           | Post-Ten                                        |                                                 |                    |
| 49'-10 1/2"   | 5"                                  | 437,000  | 438,000           | f <sub>ci</sub> = 4200<br>f <sub>c</sub> = 4200 | f <sub>ci</sub> = 4000<br>f <sub>c</sub> = 4000 | 1/2"               |
| 49'-10 1/2"   | 6"                                  | 464,000  | 463,000           | f <sub>ci</sub> = 4200<br>f <sub>c</sub> = 4200 | f <sub>ci</sub> = 4000<br>f <sub>c</sub> = 4000 | 1/2"               |
| 49'-10 1/2"   | 7"                                  | 493,000  | 492,000           | f <sub>ci</sub> = 4200<br>f <sub>c</sub> = 4200 | f <sub>ci</sub> = 4000<br>f <sub>c</sub> = 4000 | 1/2"               |

**Prestressing Notes:**  
Working Force: The Force remaining per girder after all losses  
Concrete Strength: f<sub>ci</sub> is at time of initial stressing  
f<sub>c</sub> is at 28 days, PSI  
Camber: Soffit is to be cast parabolic with value shown as ordinate at 1/2 span

COUNTY OF FRESNO - CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
HIGHWAYS AND BRIDGES

**DOUBLE TEE DETAILS**  
**LOS GATOS CREEK BRIDGE**  
**ON CALAVERAS AVENUE**

|                |            |          |             |
|----------------|------------|----------|-------------|
| Designed: S.H. | Date: 6-70 | SCALE    | DRAWING NO. |
| Drawn: W.C.L.  | 6-70       | OS noted | 5251-5      |
| Checked: S.H.  | 6-70       | BY       |             |

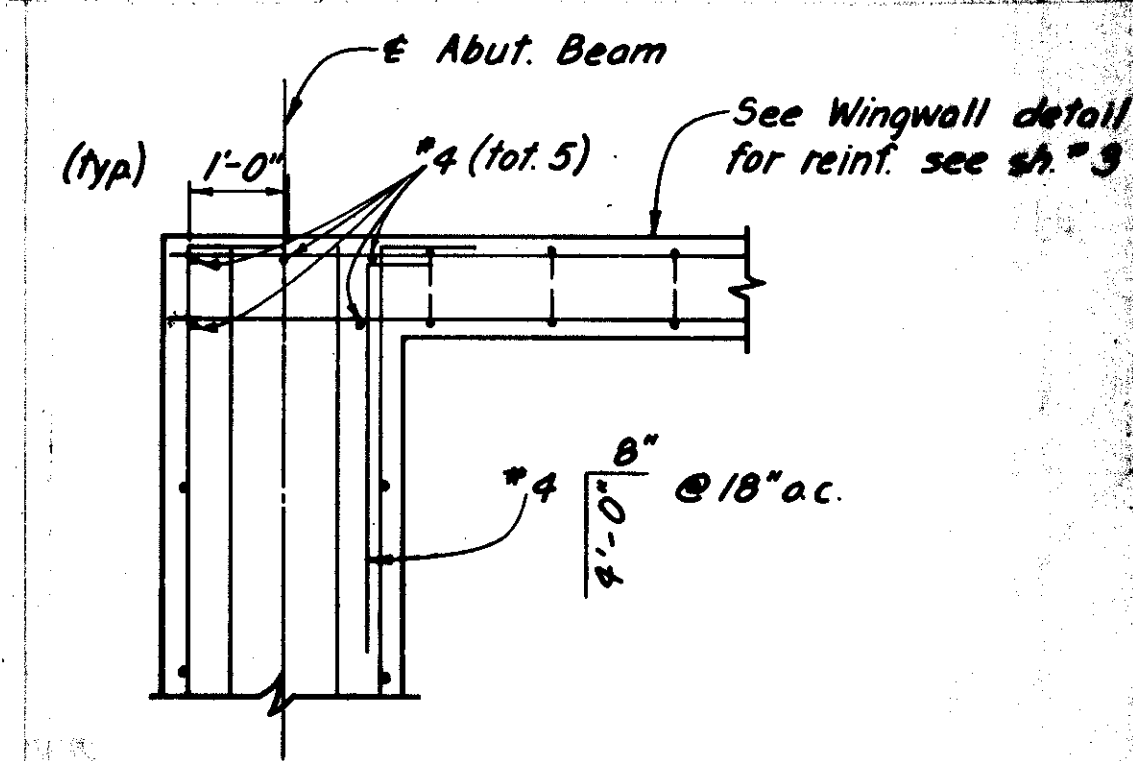
APPROVAL RECOMMENDED: *Laurel H. Hahn* 14725  
DESIGN ENGINEER C.E. LICENSE NO.

REVISION

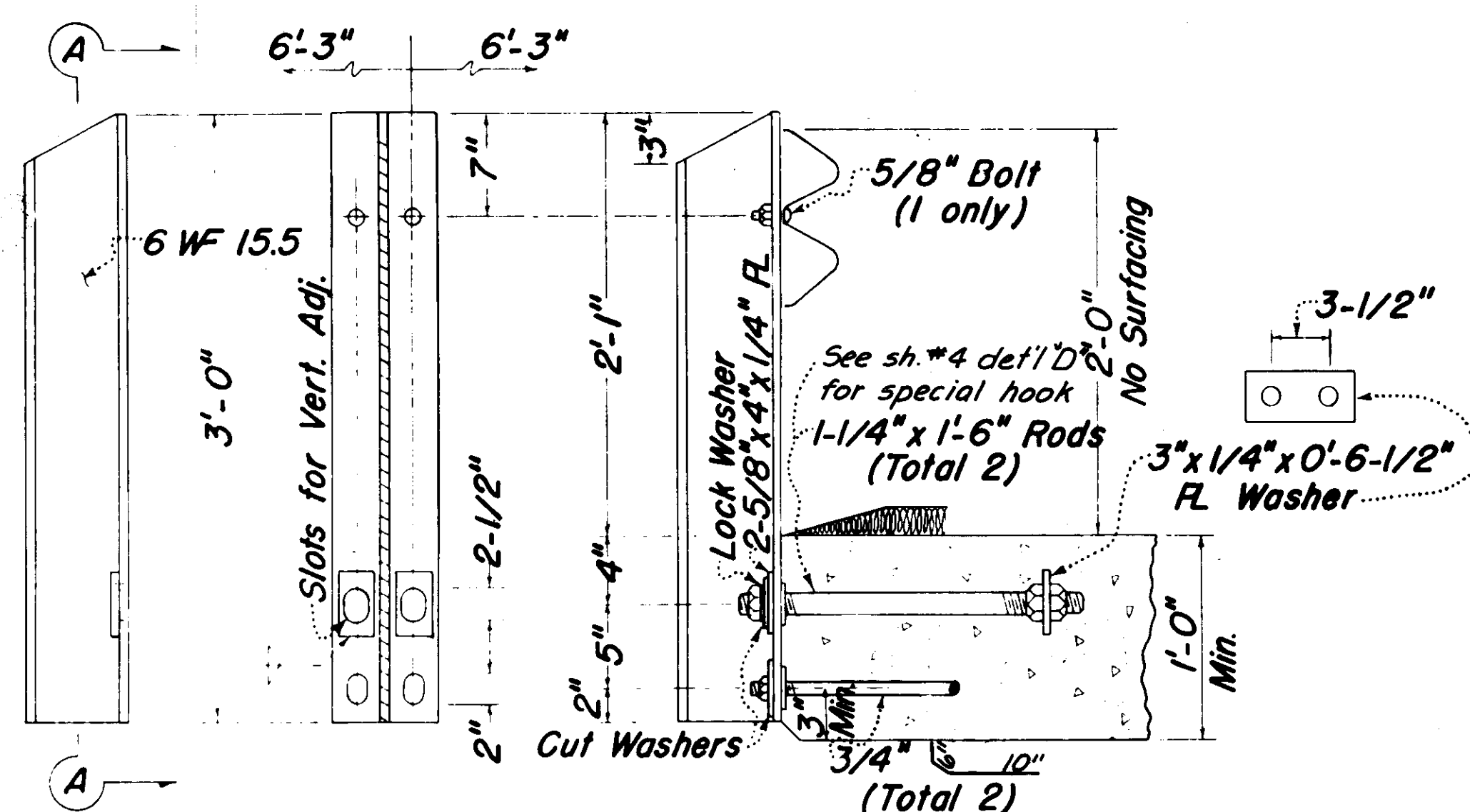


| PROJECT              | COUNTY ROAD No. | SHEET No. | TOTAL SHEETS |
|----------------------|-----------------|-----------|--------------|
| Los Gatos Creek Bri. | W-270           | 6         | 12           |

APPROVED *Henry Olson*  
FRESNO COUNTY ASST. DIRECTOR OF PUBLIC WORKS  
CIVIL ENGINEER LICENSE NO. 9076

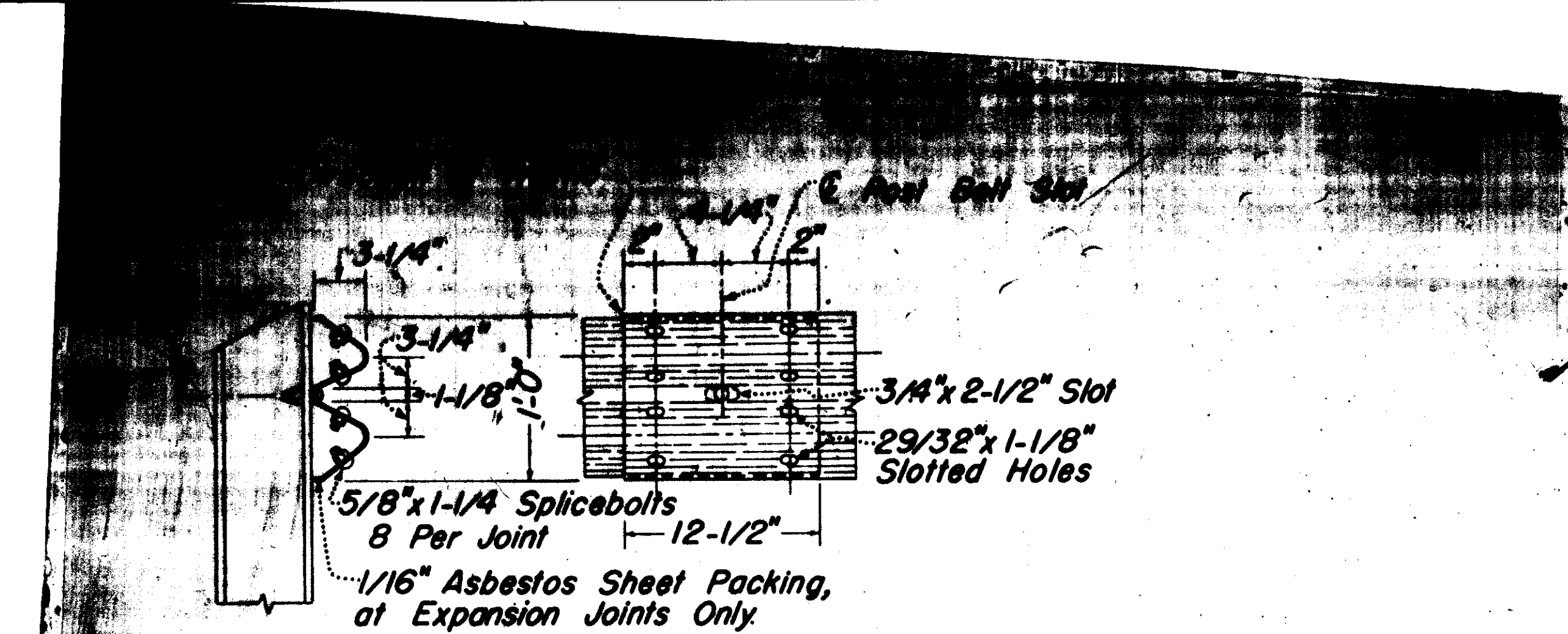


**CORNER DETAIL**  
Scale:  $\frac{1}{2}$ " = 1'-0"



Section A-A

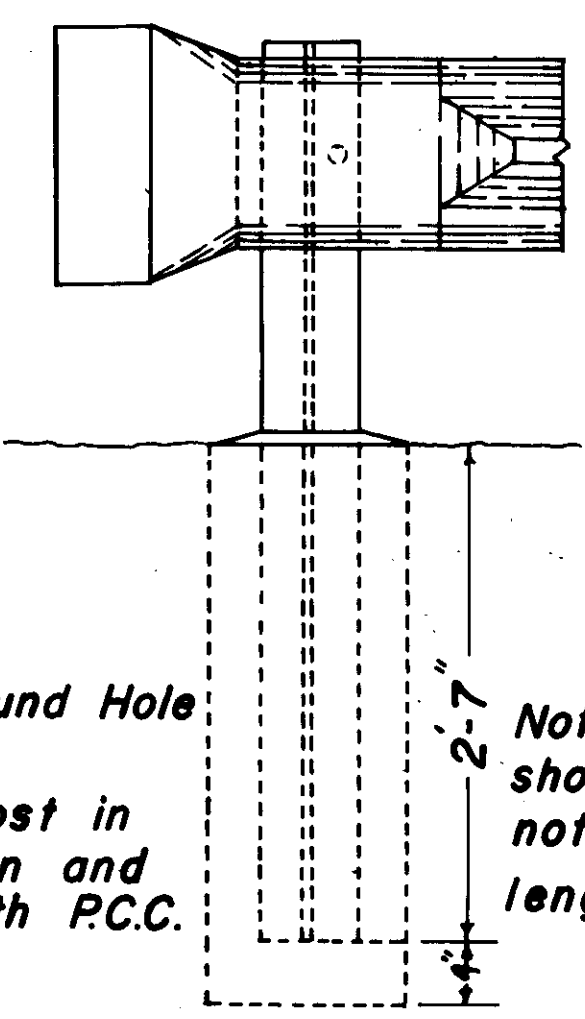
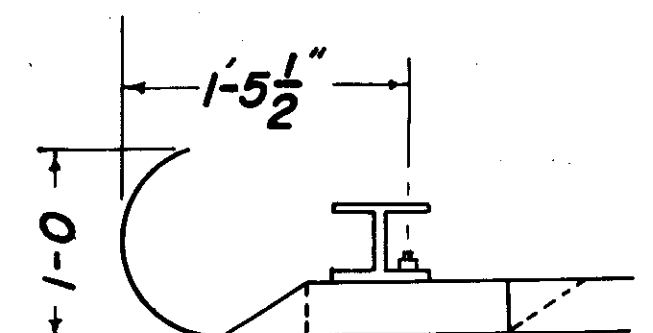
**RAIL POST FOR THIN SLABS**



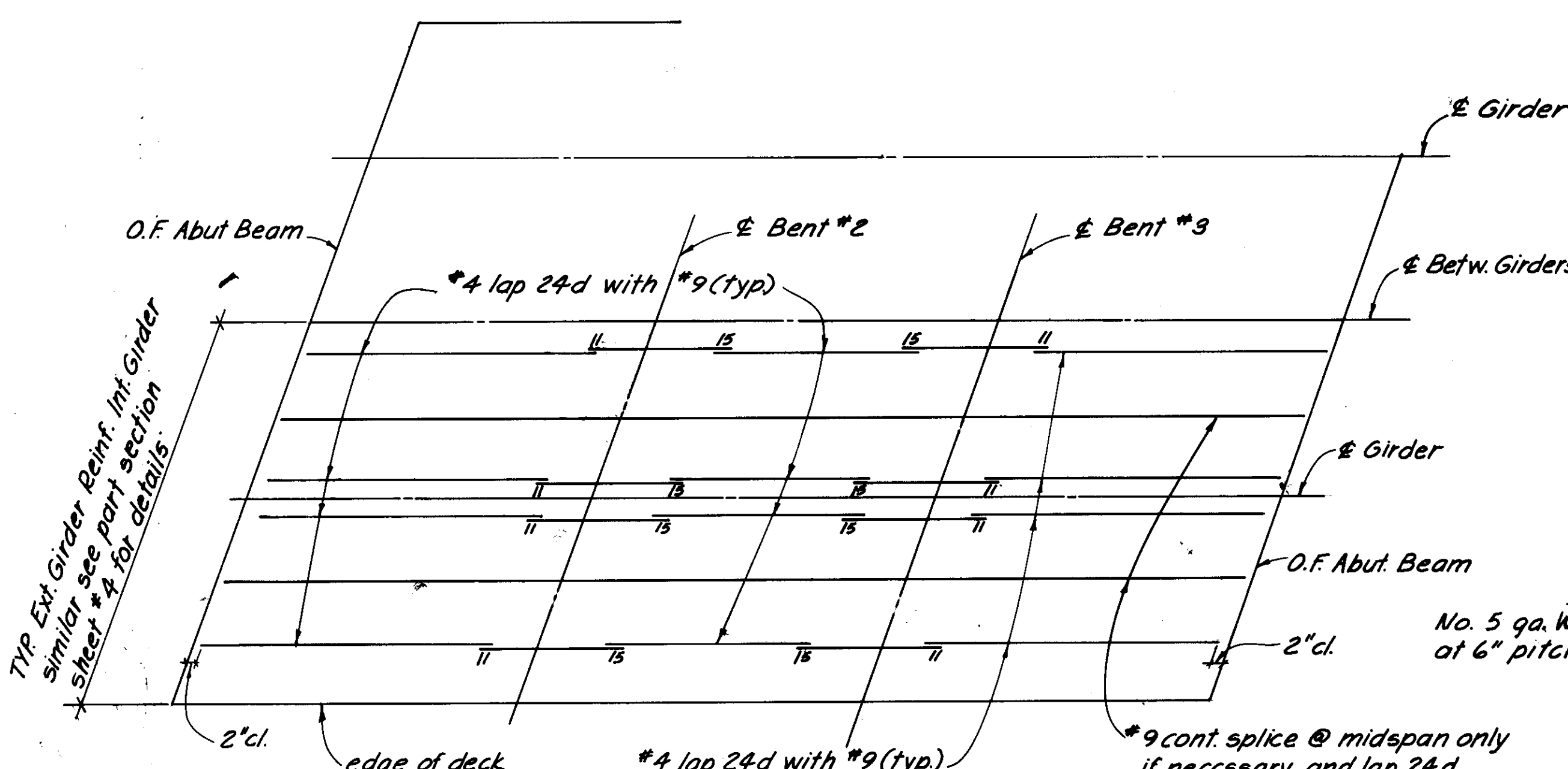
**RAIL SPLICE**

Note: At Rail Splice Nearest Expansion Joint in Bridge Deck, Slot Holes in Movable Section of Rail to Allow Same Amount of Movement as is Provided in Bridge Deck. Place 1/16" Asbestos Sheet Packing Between Rail Elements. Adjust Bolts to Provide Sliding Fit and Set Threads.

Notes: Use 3'-6" Posts Whenever Possible. All Anchor Rods to have Hex. Nuts. Provide Lock Washers for Top Anchor Rods. Weld 2-5/8" x 4" x 1/4" Plates on WF Posts When Using 1-1/4" Anchor Rods. Contractor to Provide Metal Shims to Align Posts. Space Posts to Clear Expansion Joints by 1'-0" Min. to & Post. Posts and Anchors to be Galvanized After Fabrication. Railings on Retaining Walls to be Placed After Walls are Backfilled. Bend Rods if Necessary to Maintain Clearance on Superelevated Slabs.

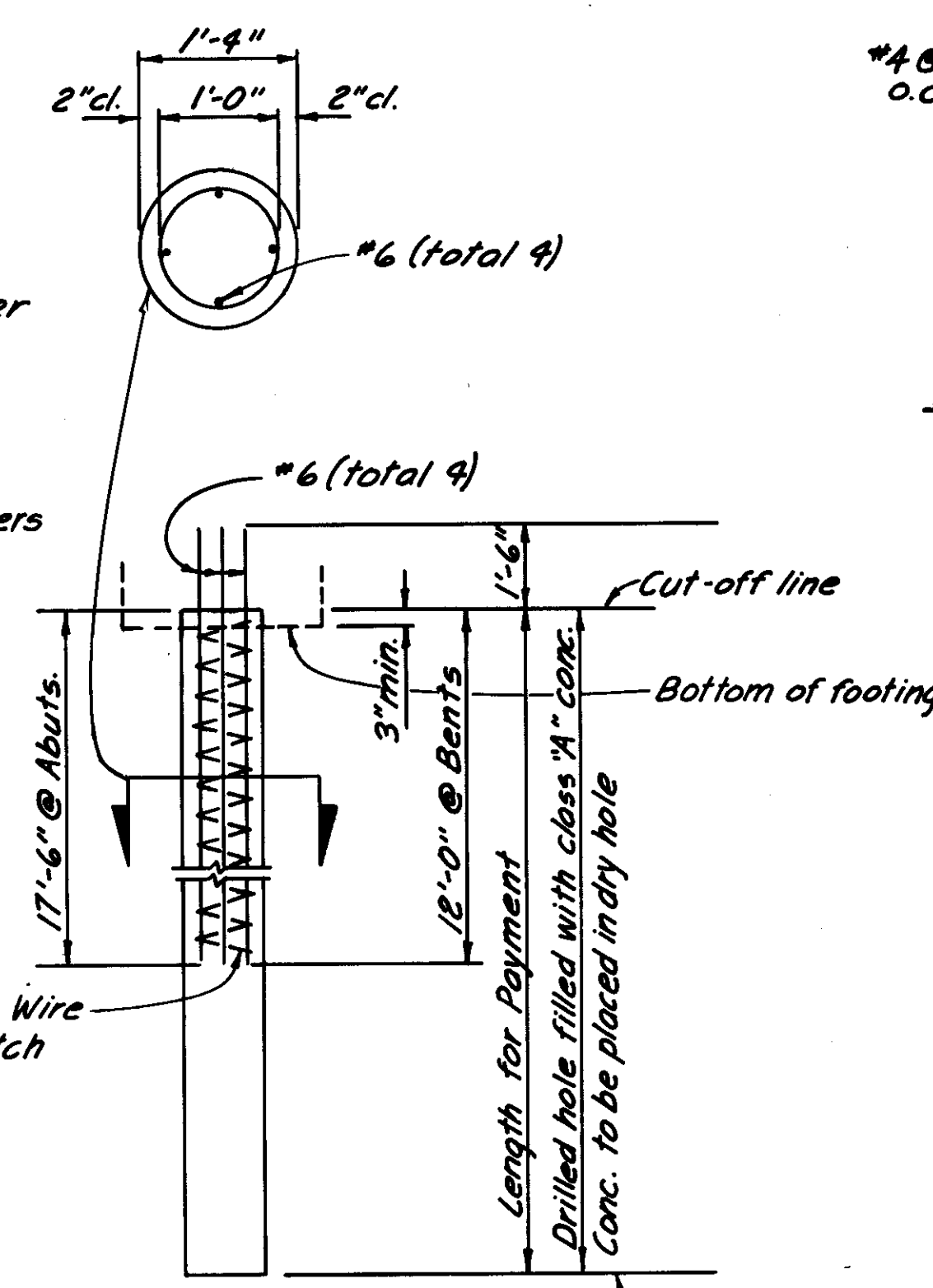


**END POST ON SHOULDER**

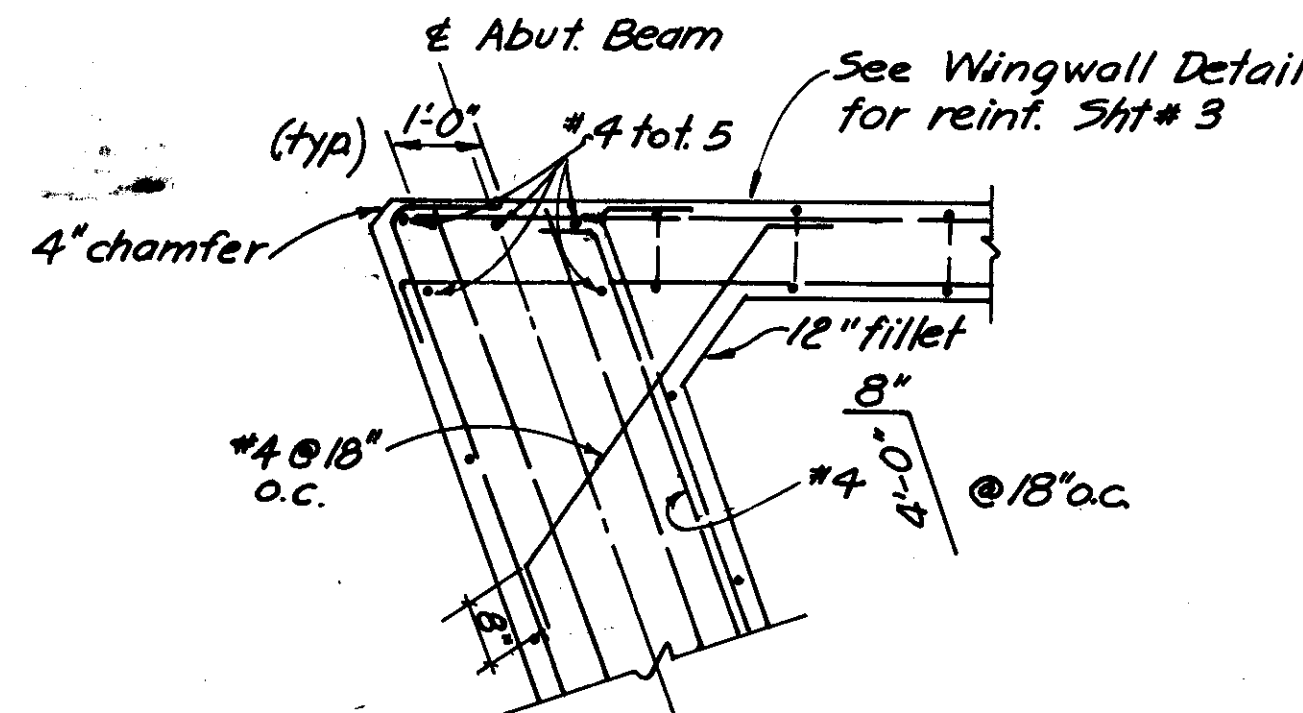


**TOP SLAB REINFORCING**  
No Scale

Note: All bars reinf. steel #9 except as noted. Numbers @ ends of bars indicate distance in feet from & Bent.



**CAST-IN-DRILLED HOLE CONCRETE PILE**



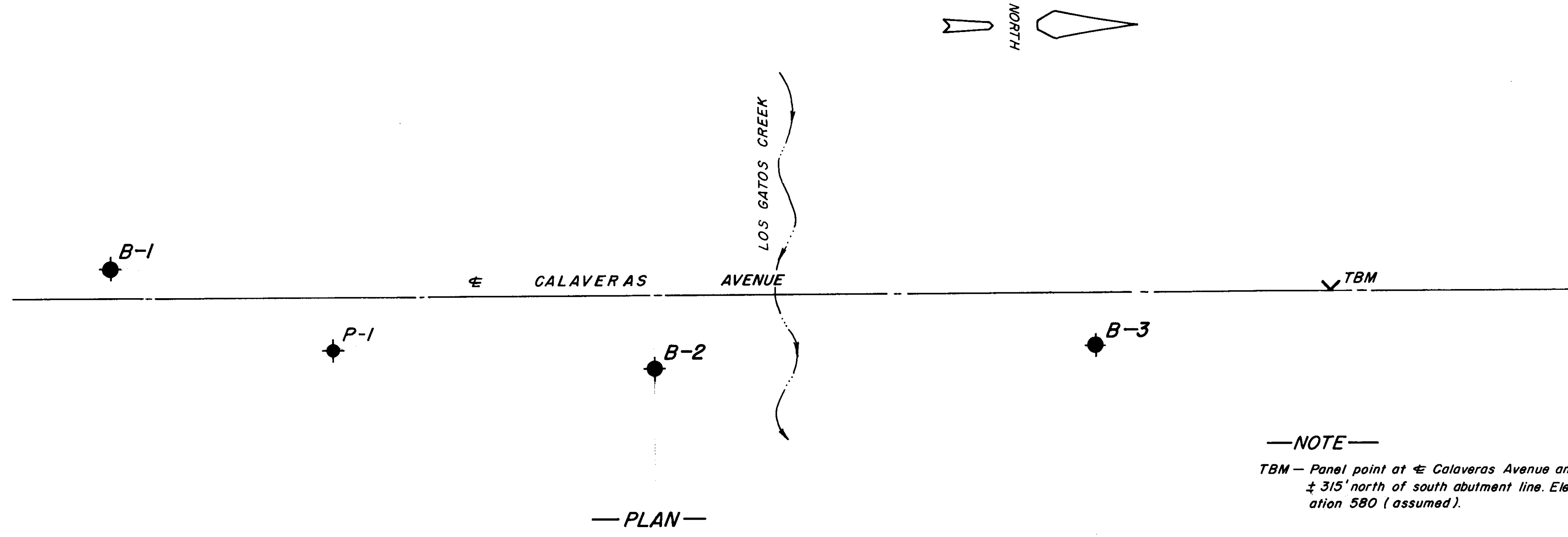
**ACUTE CORNER DETAIL**  
Scale:  $\frac{1}{2}$ " = 1'-0"

COUNTY OF FRESNO - CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
HIGHWAYS AND BRIDGES

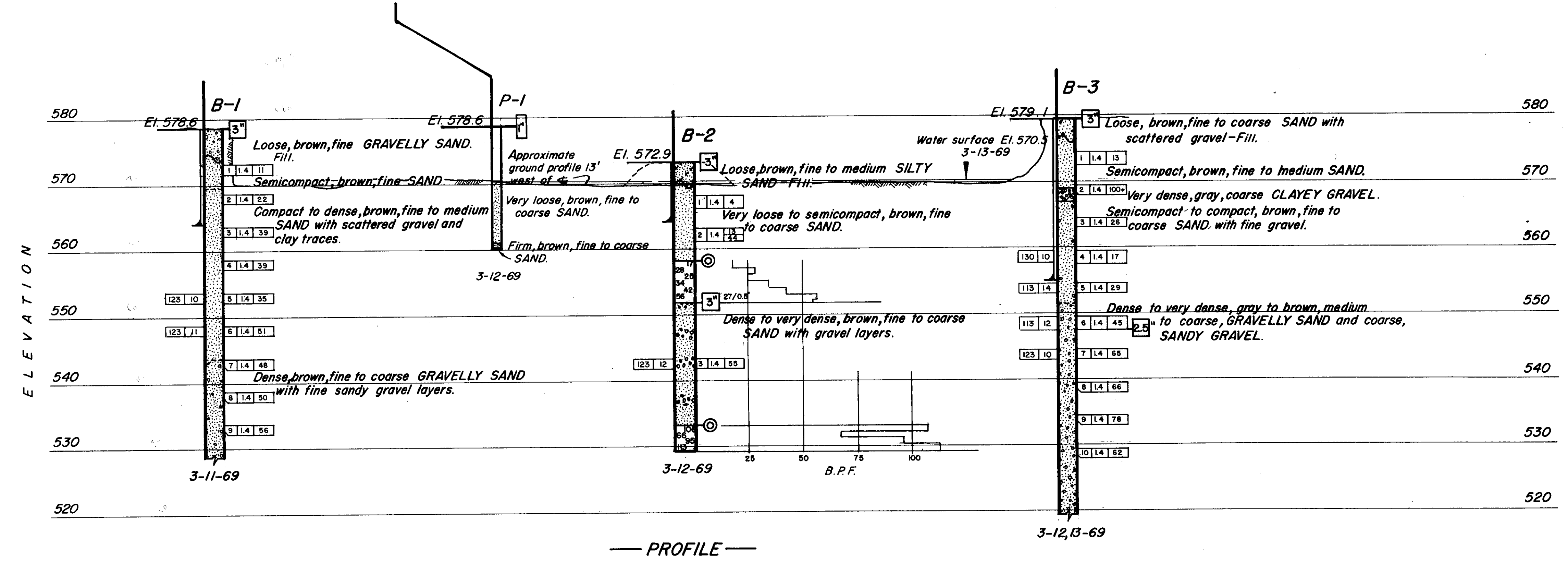
**BRIDGE RAILING & CONCRETE PILE DETAILS**  
**LOS GATOS CREEK BRIDGE ON CALAVERAS AVENUE**

DESIGNED: S.H. DATE: 6-70 SCALE: 1/4" = 1'-0" DRAWING NO. 5251-6  
DRAWN: S.H. DATE: 9-70  
CHECKED: S.H. DATE: 11-9-70  
DESIGN ENGINEER: *Henry Olson* C.E. LICENSE NO. 9076





—NOTE—  
TBM — Panel point at Calaveras Avenue and  
± 315' north of south abutment line. Elev-  
ation 580 (assumed).



AS BUILT PLANS  
3-12-69

### LEGEND OF EARTH MATERIALS

| UNIFIED SOIL CLASSIFICATION                                         |                                                 |    |    |                                              |    |    |                                                                      |    |    |                          |    |    |                                  |    |                            |
|---------------------------------------------------------------------|-------------------------------------------------|----|----|----------------------------------------------|----|----|----------------------------------------------------------------------|----|----|--------------------------|----|----|----------------------------------|----|----------------------------|
| PT                                                                  | OH                                              | CH | MH | OL                                           | CL | ML | SC                                                                   | SM | SP | SW                       | GC | GM | GP                               | GW |                            |
| Highly organic soils                                                | Sills and clays<br>Liquid limit greater than 50 |    |    | Sills and clays<br>Liquid limit less than 50 |    |    | Sands with fines<br>>12% fines                                       |    |    | Clean sands<br><5% fines |    |    | Gravels with fines<br>>12% fines |    | Clean gravels<br><5% fines |
| Fine grained soils<br>(More than 50% is smaller than No. 200 sieve) |                                                 |    |    |                                              |    |    | Coarse grained soils<br>(More than 50% is larger than No. 200 sieve) |    |    |                          |    |    |                                  |    |                            |

LABORATORY CLASSIFICATION CRITERIA

GW and SW -  $C_u$  greater than 4 for GW & 6 for SW;  $C_c = \frac{D_{30}}{D_{60} \times D_{10}}$  between 1 & 3.

GP and SM - Clean gravel or sand not meeting requirements for GW and SW.

GM and SM - Atterberg limits below "A" line or P.L. less than 4.

SC and CL - Atterberg limits above "A" line with P.L. greater than 7.

Fines (silt or clay)

Sieve sizes

### LEGEND OF BORING OPERATIONS

Plan of any boring

Rotary boring

Diamond core boring

Auger boring

Sample boring

Jet boring

Test pit

2 1/2" Cone penetrometer

2 1/2" Cone penetrometer

Moisture (% dry wt.)

Dry density (lbs./cu.ft.)

Unconfined compressive strength (tons/sq.ft.)

Designates other soils tests

C - Consolidation

S - Direct shear

E - Expansion

T - Triaxial compression

Location B-No.

Top hole elev.

Casing Set

Sample number

Size of sample (inches)

Blows per foot

(Using a 140 lb. hammer with a 30" drop)

Conformable material change

Approximate material change

Unconformable material change

Date of boring

Location B-No.

Top hole elev.

Pushed

Blows per foot

(Using 140 lb. hammer with 30" drop)

Graphic representation of driving rate

Date

Blows per foot

MOORE & TABER - Engineers-Geologists

APPROVED *[Signature]* 4-11-69  
REGISTERED CIVIL ENGINEER No. 9155

JOB No. 36917

COUNTY OF FRESNO

CALAVERAS AVENUE AT  
LOS GATOS CREEK

LOG OF TEST BORINGS

Scale  $H-1"=20'$   
 $V-1"=10'$

Date Mar. 20, 1969

By DDB

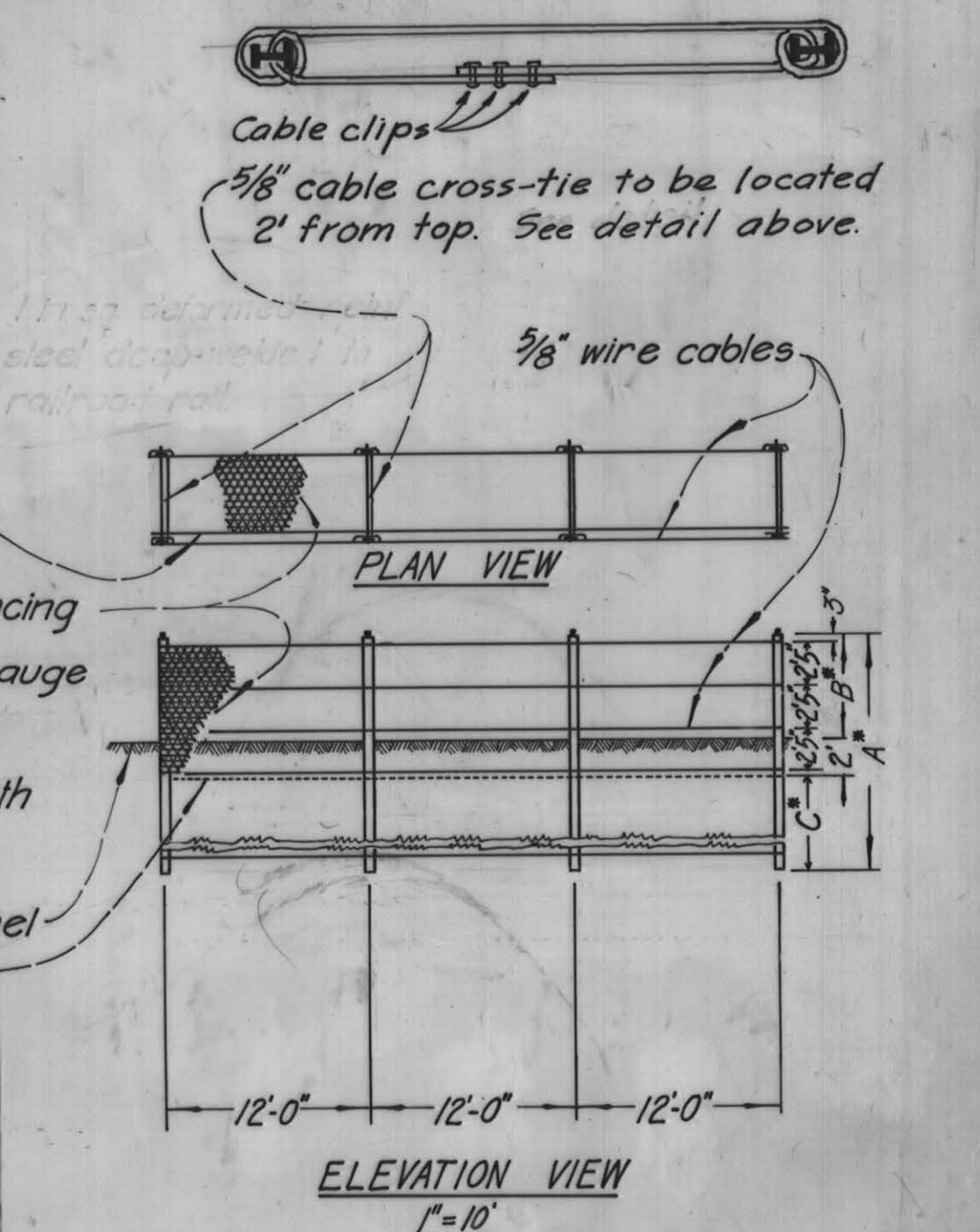
Check by

Drawing 5251-7



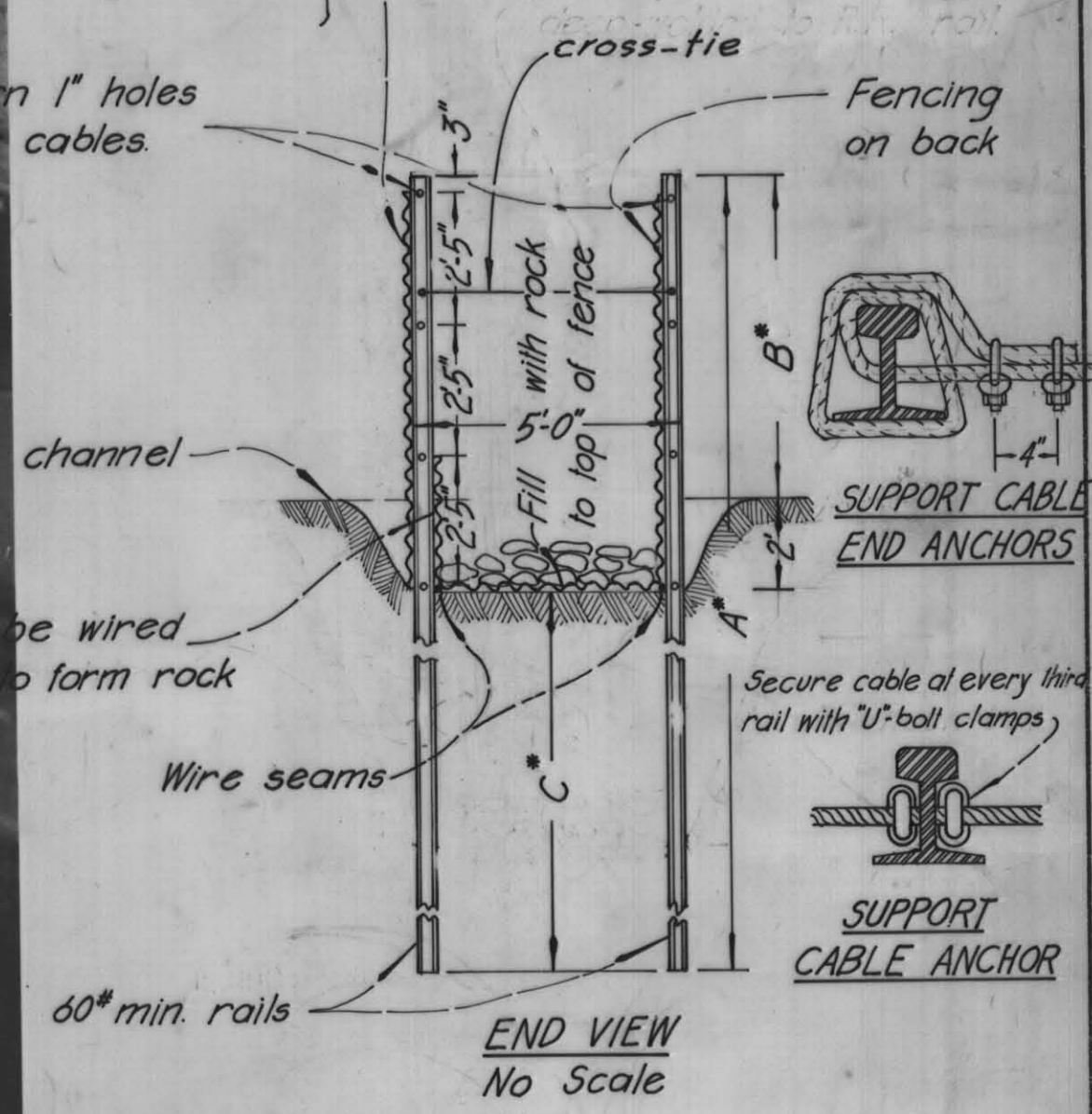
FRESNO COUNTY  
APPROVED *[Signature]*  
ASSISTANT DIRECTOR OF PUBLIC WORKS  
CIVIL ENGINEER LICENSE NO. 9076

**DOUBLE RAIL WIRE FENCE DETAILS**  
State of California Maintenance Manual, Plate 14-5



**DETAILS FOR RAIL POSTS**

AS BUILT PLANS  
Corrections by *[Signature]*  
Date 11-9-70



\*Key to Dimensions (Rail Posts)

|                                     | A       | B  | C   |
|-------------------------------------|---------|----|-----|
| LOS GATOS CREEK BR on Calaveras     | 30'     | 9' | 19' |
| JACALITOS CREEK BR on Lost Hills Rd | 15 1/2' | 6' | 7'  |

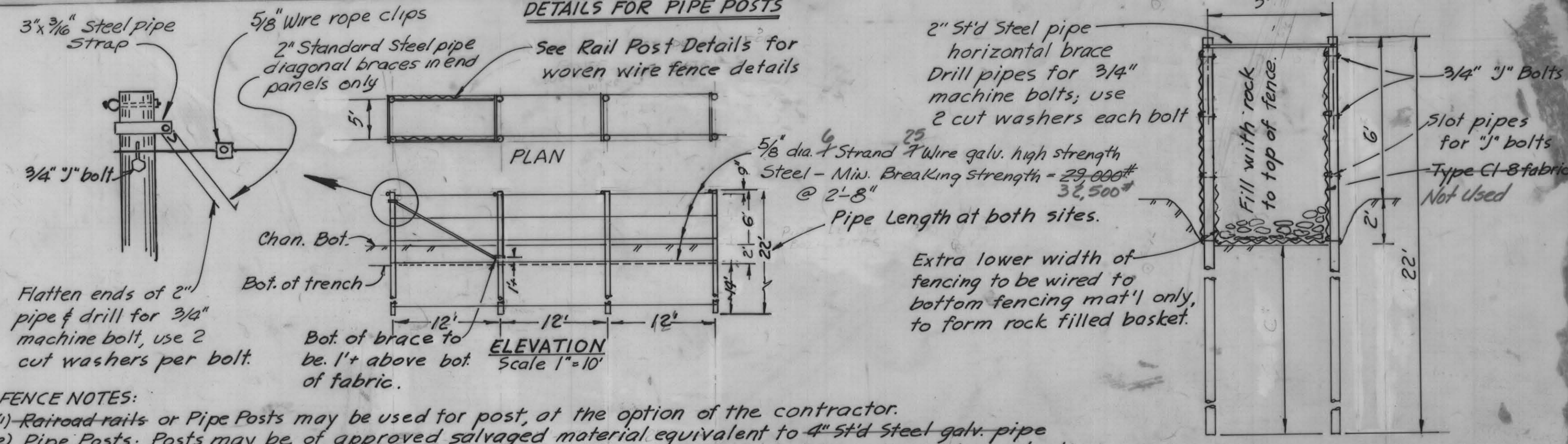
COUNTY OF FRESNO - CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
HIGHWAYS AND BRIDGES

**JACALITOS CREEK BRIDGE**  
on Lost Hills Rd, 2.28 Mi. e/o Merced Ave.  
Site Plan

|                                          |                   |                 |                    |
|------------------------------------------|-------------------|-----------------|--------------------|
| DESIGNED: C.M.B.                         | DATE: 8-69        | SCALE: As Noted | DRAWING NO. 5251-8 |
| DRAWN: J.H.                              | 8-70              | PG.             |                    |
| CHECKED: J.H.                            |                   |                 |                    |
| APPROVAL RECOMMENDED: <i>[Signature]</i> | 14725             |                 |                    |
| DESIGN ENGINEER                          | C. E. LICENSE NO. |                 |                    |
| REVISION                                 |                   |                 |                    |



**DETAILS FOR PIPE POSTS**



**FENCE NOTES:**  
(1) Railroad rails or Pipe Posts may be used for post, at the option of the contractor.  
(2) Pipe Posts; Posts may be of approved salvaged material equivalent to 4" 5/8" steel galv. pipe or 6" 5/8" steel black pipe. Pre-boring or Jetting may be used to aid driving to req'd penetration.  
(3) Bracing & Hardware; Bracing pipe (2") may be black or galvanized. Hardware may be black or galvanized. Tie wires shall be galvanized.



Contours as of April 10, 1969

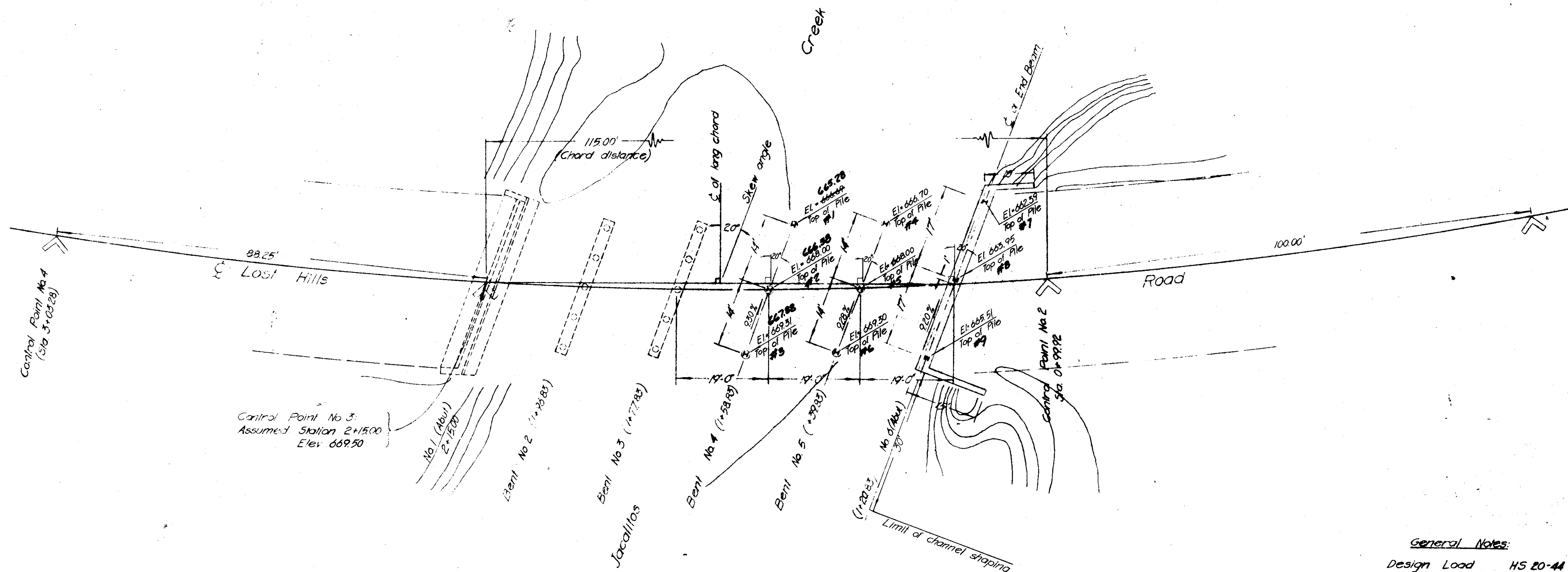
# PILE ELEVATIONS

|          |   |        |        |
|----------|---|--------|--------|
| Abutment | 1 | 634.00 | 634.00 |
| "        | 2 | 634.00 | 634.00 |
| "        | 3 | 634.00 | 634.00 |
| Abutment | 4 | 634.70 | 634.70 |
| "        | 5 | 634.75 | 634.75 |
| "        | 6 | 632.85 | 632.85 |
| Abutment | 7 | 632.59 | 632.59 |
| "        | 8 | 636.50 | 636.50 |
| "        | 9 | 637.91 | 637.91 |

| ROAD NUMBER | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|-------------|-------------|-----------|--------------|
| 5494        | 1969        | 9         | 12           |

APPROVED: *Sherry Ch...*  
 FRESNO COUNTY ASSISTANT DIRECTOR OF PUBLIC WORKS  
 CIVIL ENGINEER LICENSE NO. 10070

10 BP42 Piles, total of 9  
 Pile tip elevation at minimum penetration  
 Bents Above 634.00  
 Abutment 640.00



## General Notes:

Design Load HS 20-44  
 ADT (1989) 50  
 ADT (1999) 195

## AS BUILT PLANS

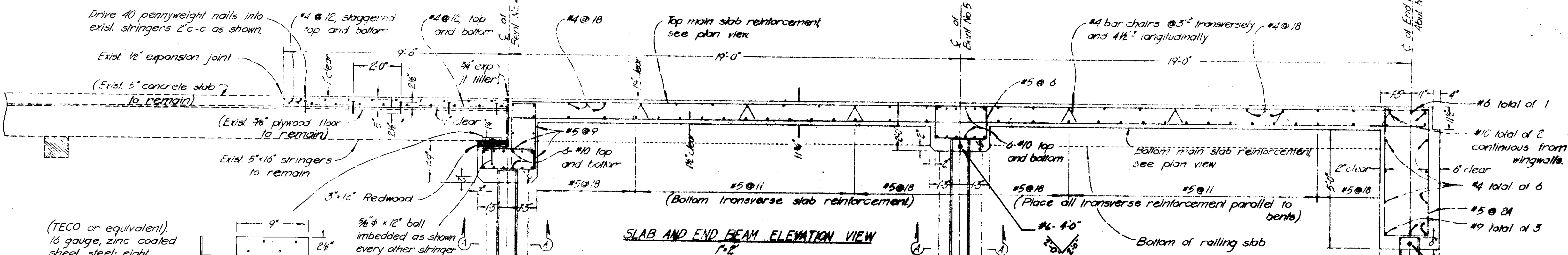
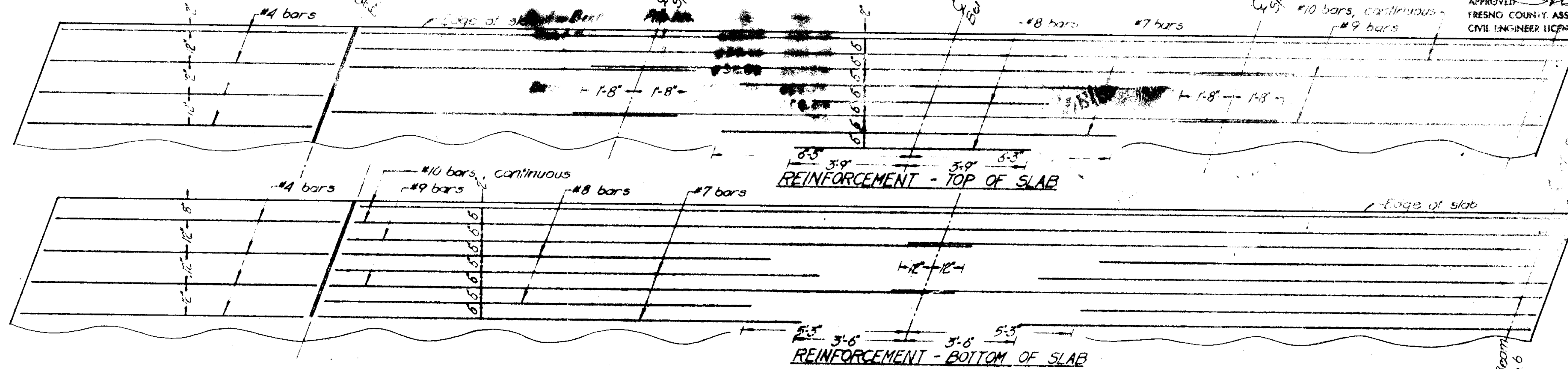
Corrections by *A. Katerian*  
 Date 11-9-70

|                                                                                       |                     |                      |                           |
|---------------------------------------------------------------------------------------|---------------------|----------------------|---------------------------|
| COUNTY OF FRESNO - CALIFORNIA<br>DEPARTMENT OF PUBLIC WORKS<br>HIGHWAYS AND BRIDGES   |                     |                      |                           |
| JACALITOS CREEK BRIDGE<br>on Lost Hills Rd, 2.28 Mi. to Merced Ave<br>Foundation Plan |                     |                      |                           |
| Designed: <i>CHB</i>                                                                  | Date: <i>8-28</i>   | Scale: <i>1"=10'</i> | Drawing No. <i>5251-9</i> |
| Drawn: <i>CHB</i>                                                                     | Checked: <i>CHB</i> | Reviewed: <i>CHB</i> | Approved: <i>CHB</i>      |
| REVISION                                                                              |                     |                      |                           |



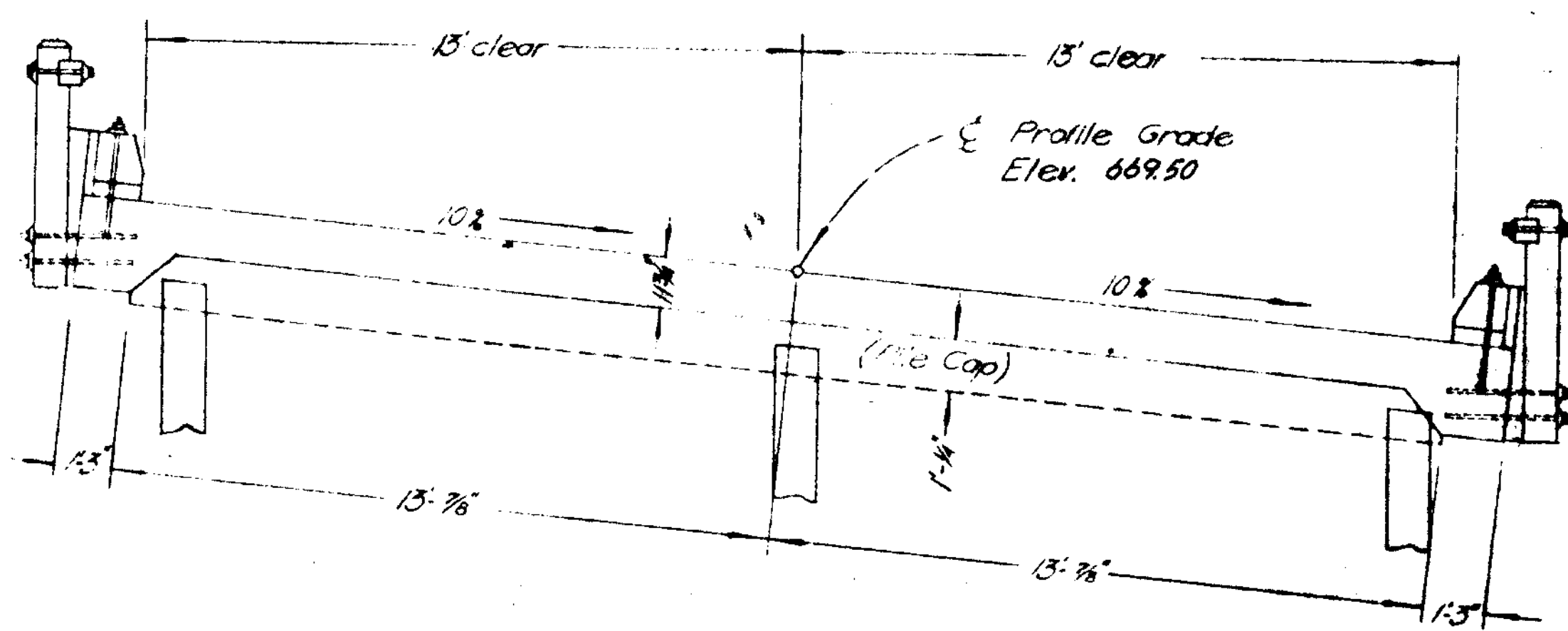
APPROVED: *Shirley Olson*  
 FRESNO COUNTY ASSISTANT DIRECTOR OF PUBLIC WORKS  
 CIVIL ENGINEER LICENSE NO. 2776

# PILE ELEVATION



(TECO or equivalent), 16 gauge, zinc coated steel steel; eight 8-pennyweight nails per connector; one connector per stringer; downslope side.

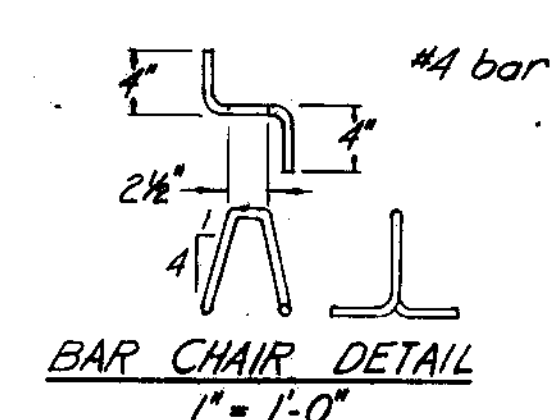
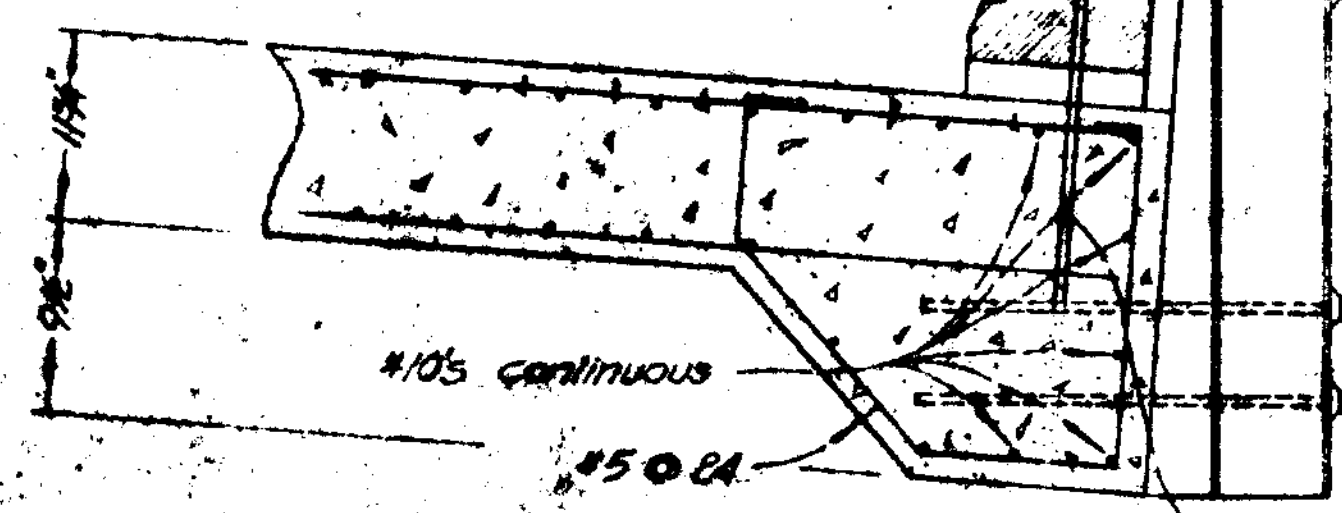
ANGLE CONNECTOR DETAIL  
 1" = 1/2"



Extend pile casing to elev. 669.50 on all six bent piles. 663.50

SECTION A-A

Salvage and reinstall existing guard rail, posts, wheel guard and spacer blocks.



AS BUILT PLANS  
 Corrections by: *A. Kaler*  
 Date: 11-8-70

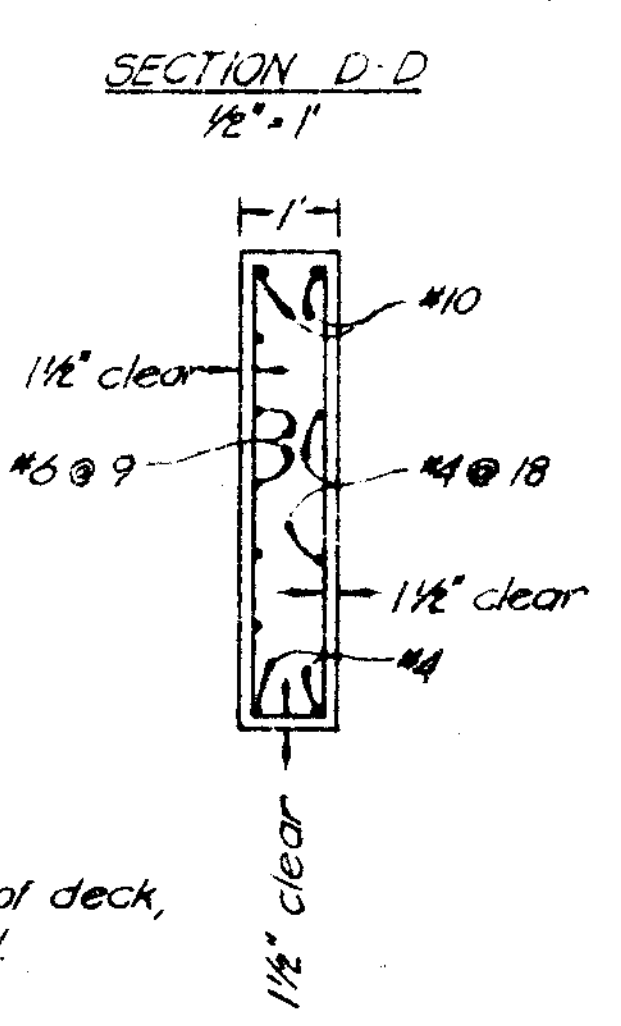
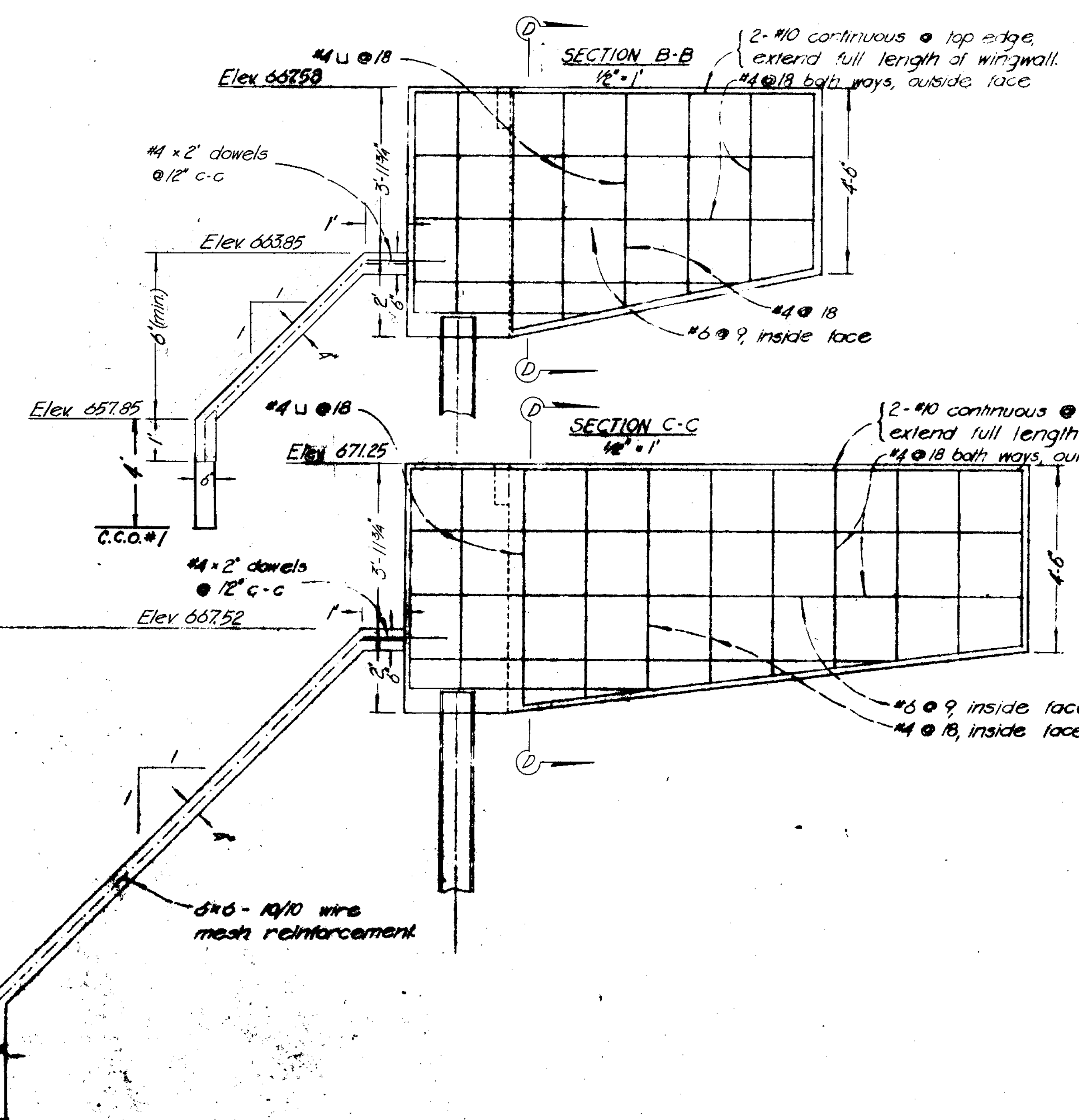
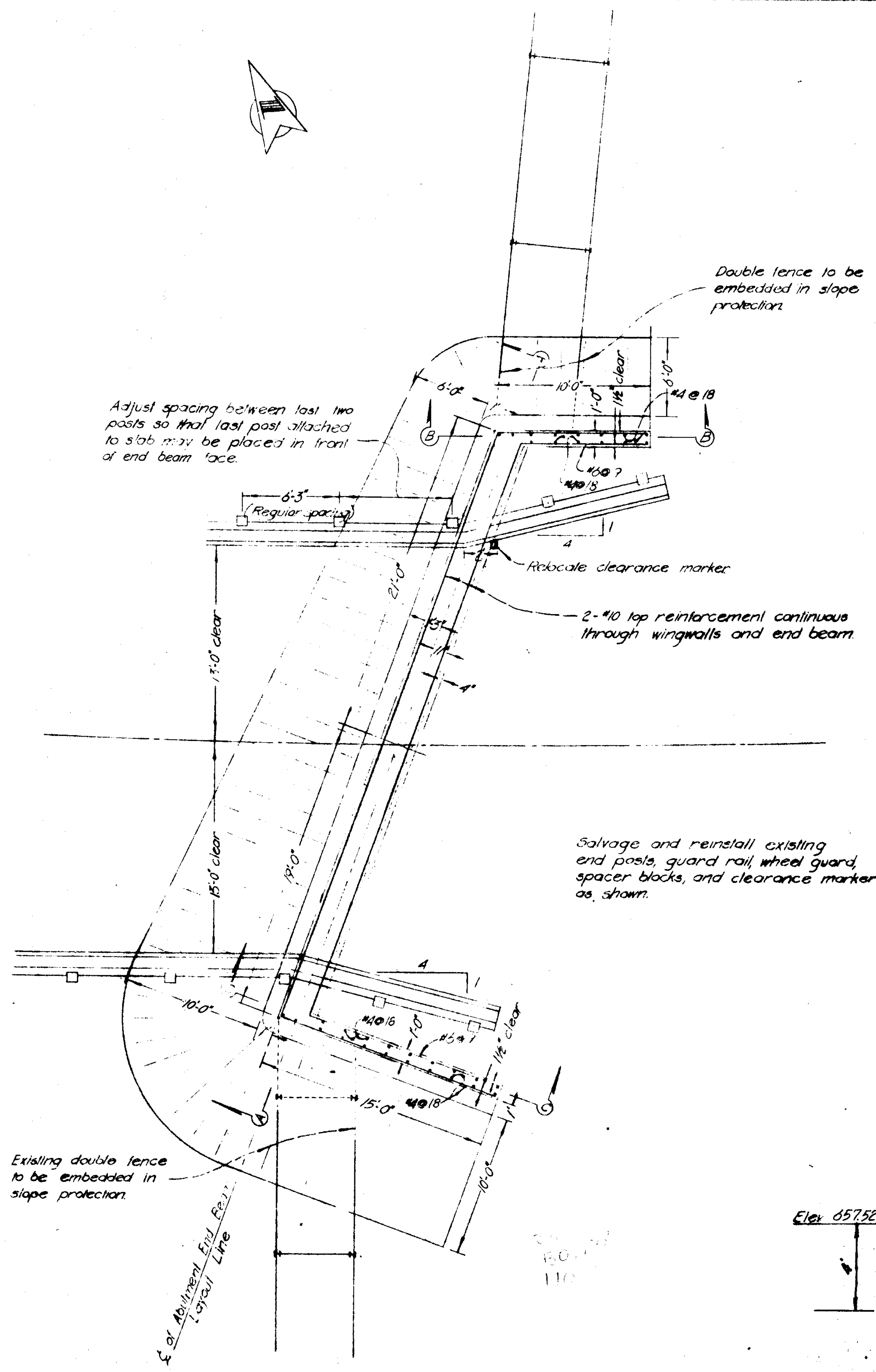
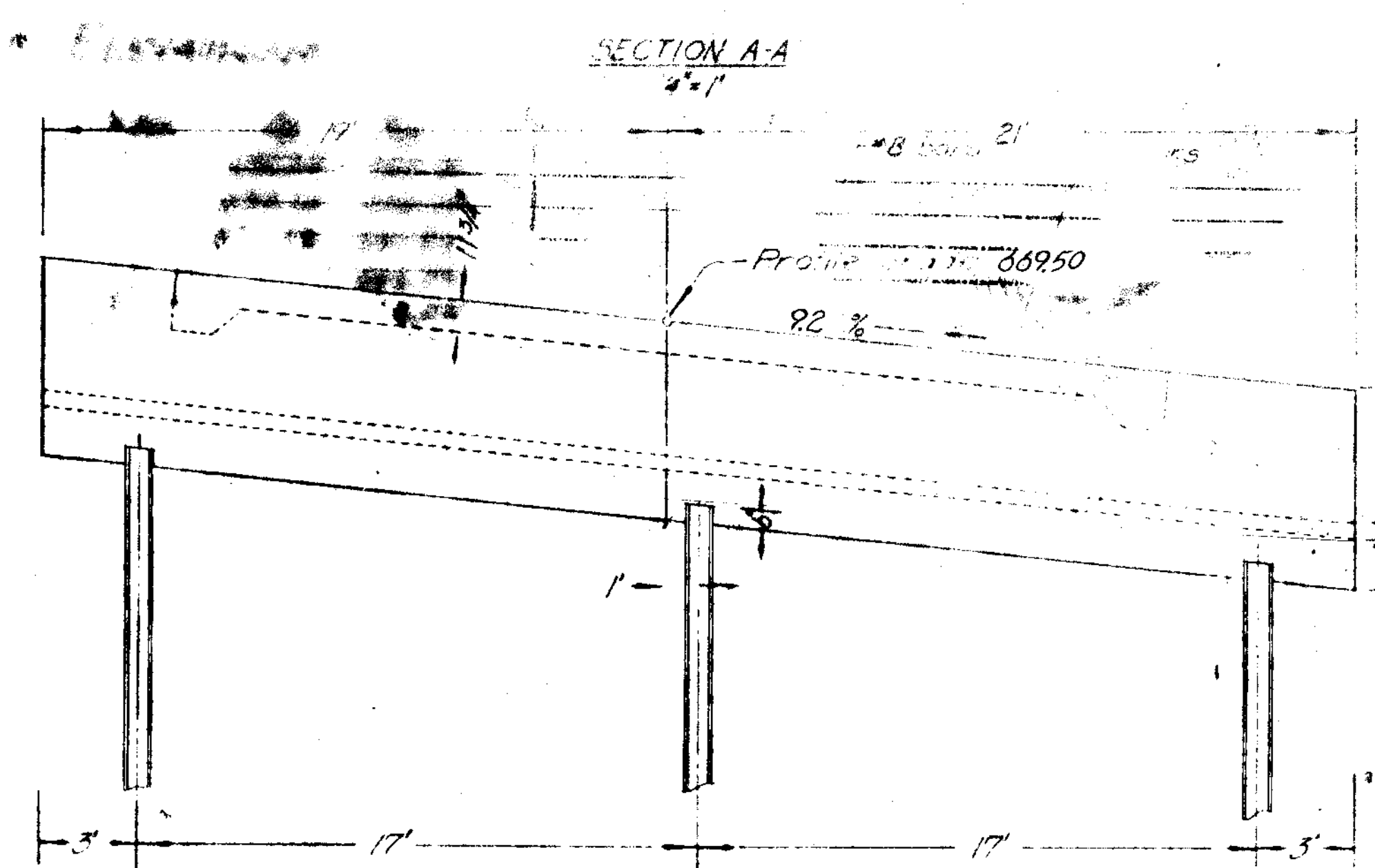
COUNTY OF FRESNO - CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAYS AND BRIDGES

JACALITOS CREEK BRIDGE  
 on Lost Hills Rd. E28 Mi. e/o Maricopa Ave.  
 Slab Details

|                  |            |                 |                      |
|------------------|------------|-----------------|----------------------|
| Designed: C.M.B. | Date: 7-68 | SCALE: As Noted | DRAWING NO.: 5251-10 |
| Drawn: J.H.      | Date: 5-70 |                 |                      |
| Checked: J.H.    |            |                 |                      |

APPROVAL: *Shirley Olson*





AS BUILT PLANS  
 Corrections by *A. Kafeian*  
 Date 11-9-70

COUNTY OF FRESNO - CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 HIGHWAYS AND BRIDGES

JACALITOS CREEK BRIDGE  
 on Losi Hills Rd, 2.28 Mi. to Merced Ave  
 Wingwall and Railing Details

Designed: *SA* Drawn: *SA* Scale: *As noted* Checked: *SA*

APPROVED *Harry Oliver*  
 FRESNO COUNTY DIRECTOR OF PUBLIC WORKS



