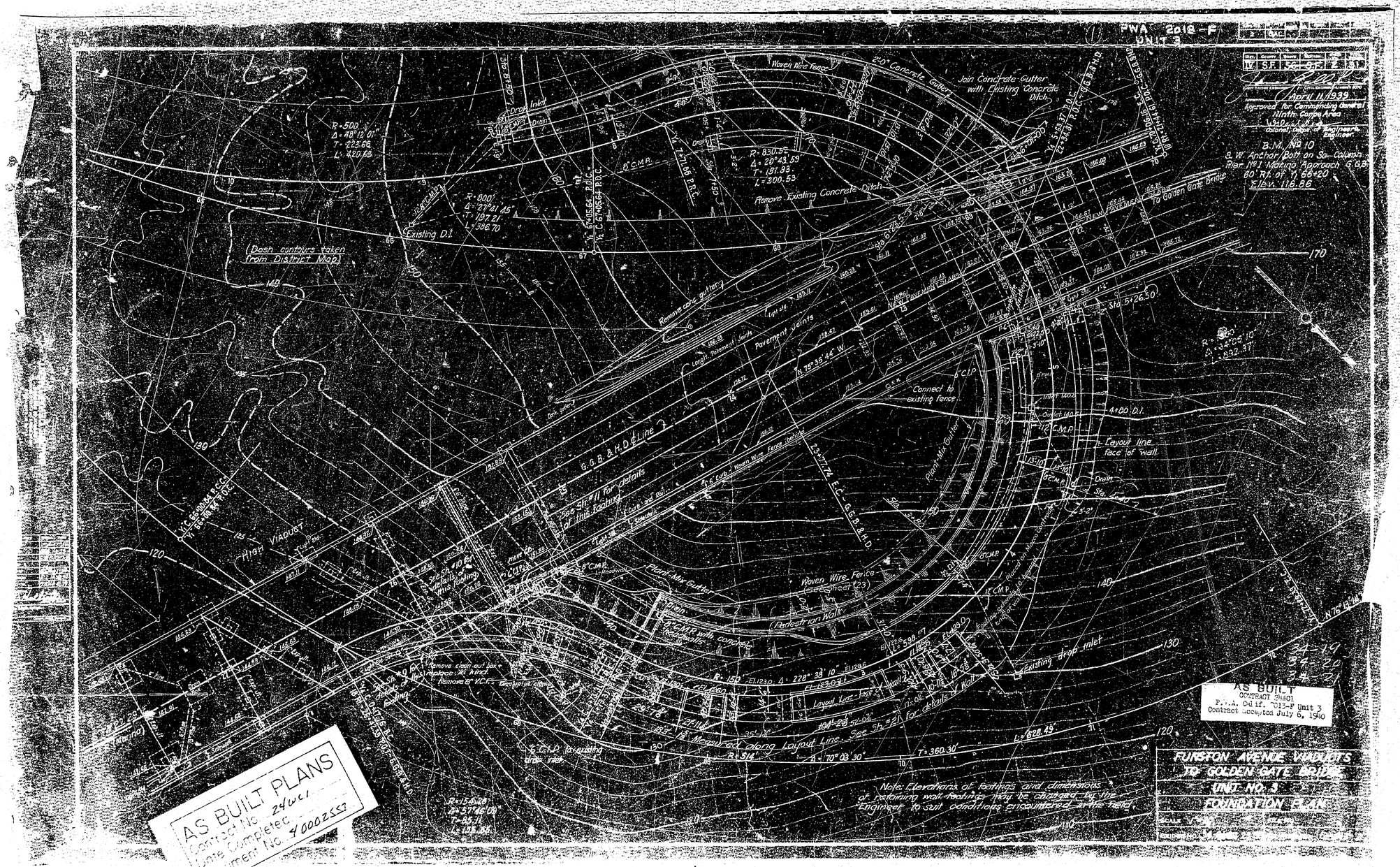
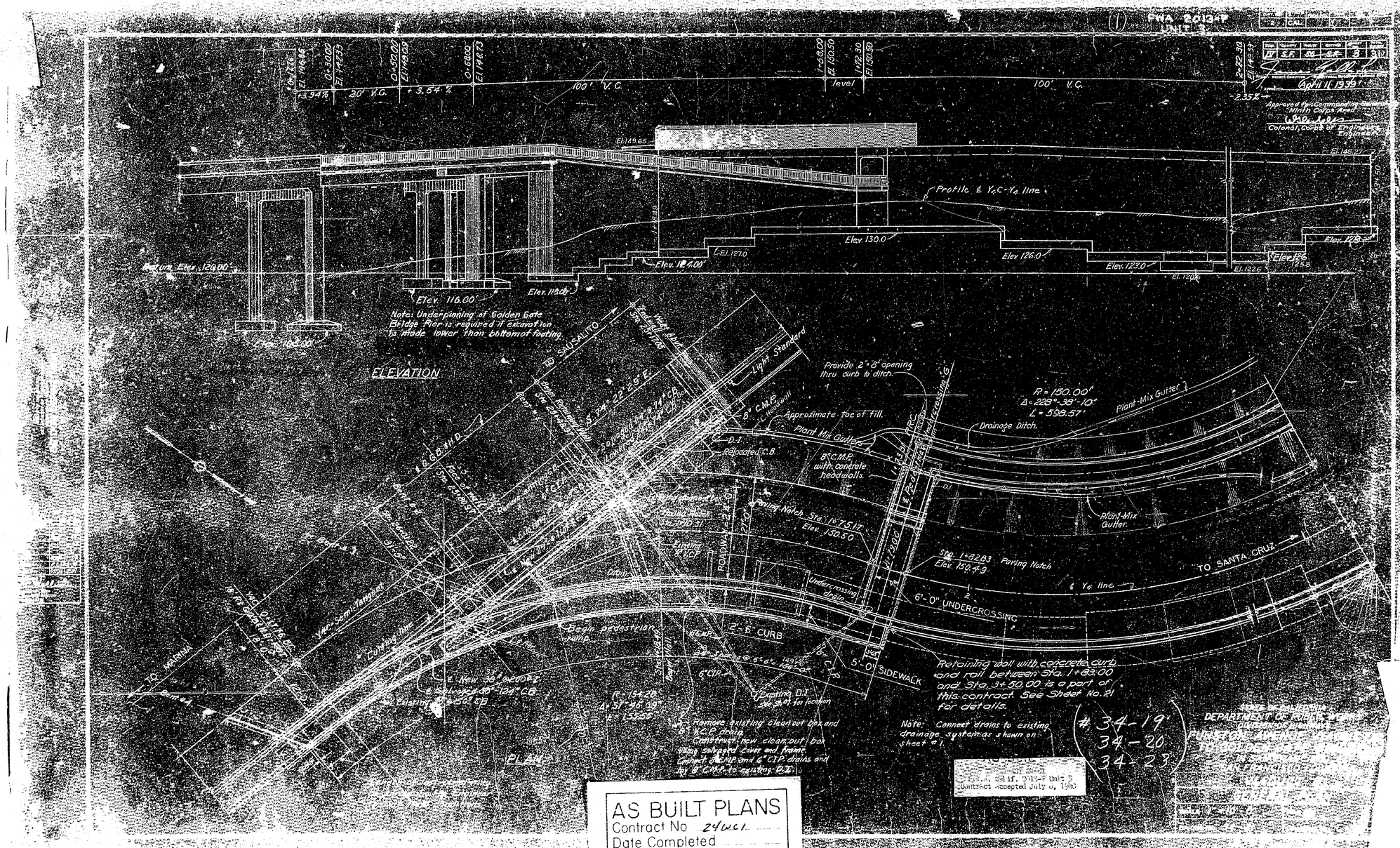
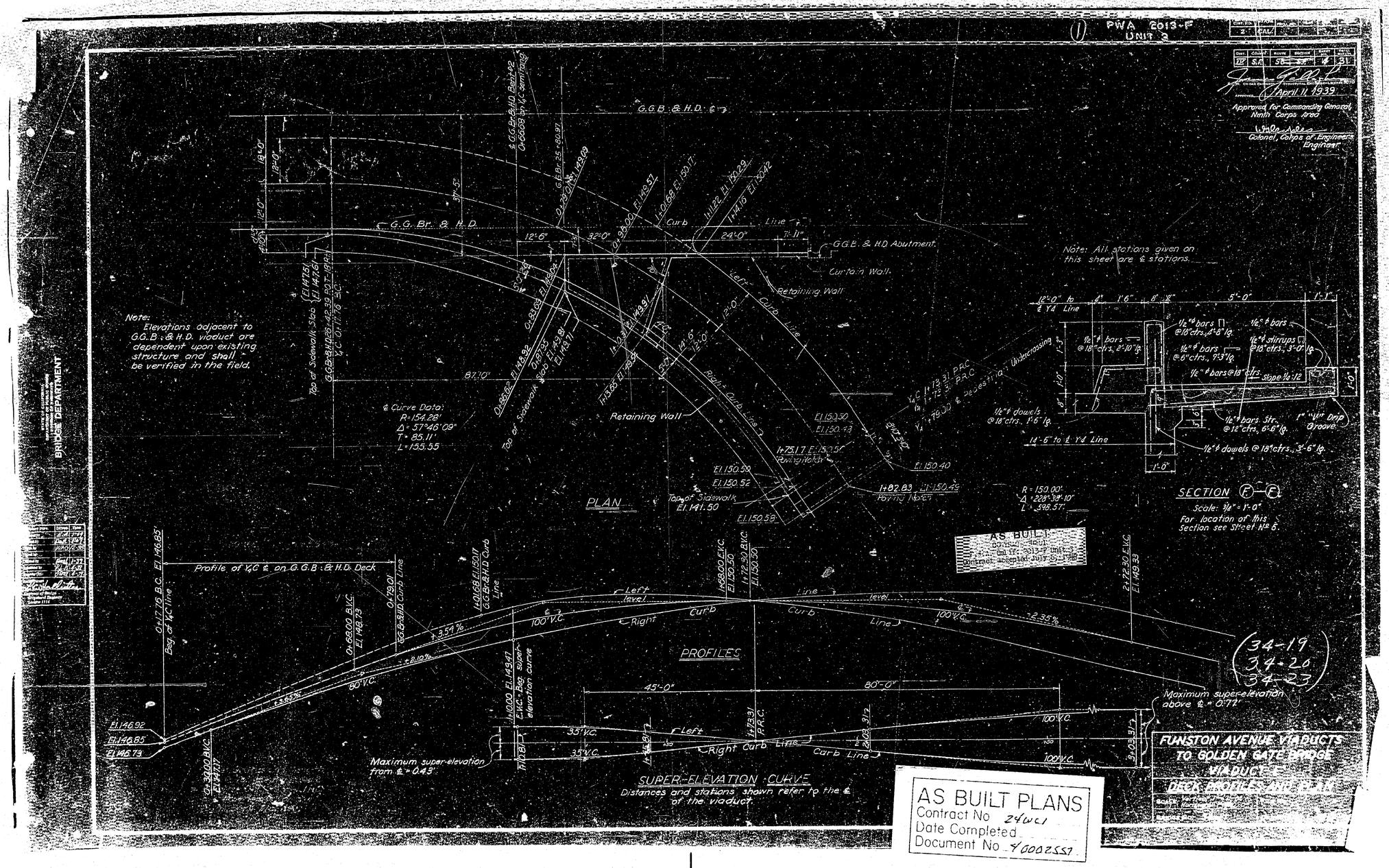
PWA 2013-F
UNIT 3
FED. ROAD DIST. NO. 2 STATE CAL.
DIST. IV COUNTY S.F. ROUTE 56 SECTION S.F. SHEET NO. 1 TOTAL SHEETS 31
ASST. BRIDGE ENGINEER STRUCTURAL ENGINEER - LICENSE 3070
APPROVED April 11, 1939
ASSISTANT STATE HIGHWAY ENGINEER
Civil Engineer - License 2084
Approved for Commanding General, 9th Corps Area
Colonel, Corps of Engineers, Engineer.
BRIDGE DEPARTMENT
11' Rt. = 60+69.30 B.C.
12.75' Rt. = 60+69.48 P.O.T.
R = 763.86'
Δ = 17°52'45"
T = 120.16'
L = 238.36'
L 60+69.30 P.O.T.
½ C 60+80.58 B.C.
Eucalyptus up to 36" dia.
To Santa Cruz
N. 0° 50' 16" E.
R = 800'
Δ = 27°41'45"
T = 197.21'
L = 386.70'
R = 500'
Δ = 48°12'-01"
T = 223.66'
L = 420.63'
Signal Corps Conduit
R = 810.52'
Δ = 20°43'-59"
T = 151.93'
L = 300.53'
STREET
2 Story Stucco Houses
UNDERPASS & RETAINING WALL "D"
Concrete Gutter
Top of Slope
Join Concrete Gutter with existing concrete gutter.
G.G.B.& H.D. LINE
Existing D.I. Inlet 163.3 Outlet 162.3
Pipe rail Barricade
S.V. Light Std.
Concrete Pavement
PEDESTRIAN SUBWAY "H"
To Toll Plaza
S. 40° 17' 19" E.
Pedestrian Walk
Connect to D.I. Inlet 165.2
8" C.M.P.
Drain
D.I. Outlet 166.0
D.I. Outlet 165.8
Retaining walls included in Funston Tunnel Contract Unit #1.
Brick Gutter
3'x5' Brick Arch
Sewer Abandoned
4" V.C.P. Signal Corps Conduit
Sta. 1+90
Sta. 2+20
R = 299.02
Δ = 104°47'15"
T = 388.20'
L = 546.87'
R = 748.44
Δ = 7°00'-00"
T = 45.78'
L = 91.44'
Sta. 4+57.50
S. 74° 22' 29" E.
To Marina
VIADUCT "F"
(Not a part of this contract)
Retaining walls included in Contract Unit #3
Remove Concrete Gutter
Relocate Catch Basin
6" C.I. Pipe down Cleanout Box
Y₄ 5+63.37 P.O.C.
22+34.81 P.O.C. G.G.B. & H.D.
Underpass "D"
R = 150'
Δ = 228°38'-10"
L = 598.57
R = 1500'
Δ = 34°05'10"
T = 459.84'
L = 892.37'
Lead Covered Cable 4' below ground
N. 76° 13' 14" W.
420.00'
R = 154.28
Δ = 57°46'-09"
T = 85.11'
L = 155.55
Toe of Slope
PEDESTRIAN SUBWAY "G"
Y₄ 1+79
R = 514'
Δ = 70°03'30"
T = 360.30'
L = 628.49'
Lincoln Blvd.
Macadam Pavement
3'x5' Brick Arch Culvert
HIGH VIADUCT CONNECTION "E"
6" Fuel Oil Line
R = 510.51'
Δ = 35°55'55"
T = 165.54'
L = 320.16'
Y.C. 79+69.49 E.C.
18' Lt. = 13+90.49 P.O.T. G.G.B.& H.D.
Note:- For "General Notes" on this set of plans, See Sheet No. 25.
Note:- Drainage system installed under other contracts except for portions indicated on plans.
INDEX TO PLANS
1. Unit No. 3 General Plan.
2. Unit No. 3 Foundation Plan
3. Viaduct E General Plan.
4. Deck Profile and Plan.
5. Plan of Deck Slab.
6. Typical Deck Section.
7. Structural Steel Details.
8. Bearing Details.
9. Pier and Girder Details.
10. Cellular Structure.
11. Curtain and Retaining Walls.
12. Elevation of Retaining Wall Ramp.
13. Railing Details.
14. Pedestrian Undercrossings G and H.
15. Underpass D General Plan.
16. Sequence of Operations.
17. Typical Section.
18. Reinforcement at ends of Slab.
19. Retaining Wall Layout.
20. Gutter Grades.
21. Retaining Wall Details.
22. Walkways and Guard Rails.
23. Walks, Curbs and Fences.
24. Recessed Curb Faces.
25. Miscellaneous.
26. Unit No. 3 Lighting Plan.
27. Electrical Details.
28. Electrical Details.
29. Electrical Details.
30. Fence Details.
31. Detour and Traffic Control.
#34-19 PM 7.1
#34-20 PM 7.2
#34-23 PM 7.3
Presidio Via Marina Appro. OC On Ramp PUC
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
FUNSTON AVENUE VIADUCTS TO GOLDEN GATE BRIDGE
IN SAN FRANCISCO
SAN FRANCISCO COUNTY
UNIT NO. 3 GENERAL PLAN
SCALE: 1" = 50'-0"
FILE NO.
BRIDGE NO. 34-19, 34-20, 34-21, 34-22, 34-23
DRAWING NO. C-917-1
AS BUILT PLANS
Contract No 24wc1
Date Completed
Document No 40002551


FWA 2018-F
UNIT 3
April 11, 1939
Approved for Commencing General Ninth Corps Area
Colonel, Corps of Engineers, Engineer
B.M. No 10
S.W. Anchor Bolt on So. Column
Pier No 1 Marina Approach G.G.B.
60' Rt. of ℄ 66+20
Elev. 116.86
Join Concrete Gutter with Existing Concrete Ditch
Remove Existing Concrete Ditch
Woven Wire Fence
Existing D.I.
(Dash contours taken from District Map)
Remove conc. gutter
Pavement Joints
Connect to existing fence
Layout line face of wall
Plant-Mix Gutter
Woven Wire Fence (See Sheet 23)
Pedestrian Walk
Existing drop inlet
Measured along Layout Line. See Sh. #21 for details of Wall
Note: Elevations of footings and dimensions of retaining wall footings may be changed by the Engineer to suit conditions encountered in the field.
AS BUILT
CONTRACT 24W01
P.W.A. Calif. 2013-F Unit 3
Contract Accepted July 6, 1940
FURSTON AVENUE VIADUCTS
TO GOLDEN GATE BRIDGE
UNIT NO. 3
FOUNDATION PLAN
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557



AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No. 40002557


PWA 2013-F
UNIT 3
April 11, 1939
Approved for Commanding General, Ninth Corps Area
Colonel, Corps of Engineers
Engineer
G.G.B. & H.D. ℄
G.G. Br. & H.D.
G.G.B. & H.D. Abutment
Curtain Wall
Retaining Wall
Left Curb Line
Right Curb Line
Note: All stations given on this sheet are ℄ stations.
Note: Elevations adjacent to G.G.B. & H.D. viaduct are dependent upon existing structure and shall be verified in the field.
℄ Curve Data:
R=154.28'
Δ=57°46'09"
T=85.11'
L=155.55
Top of Sidewalk Slab
Top of Sidewalk
PLAN
SECTION F-F
Scale: 3/4" = 1'-0"
For location of this Section see Sheet No 6.
AS BUILT
Profile of Y4C ℄ on G.G.B. & H.D. Deck
PROFILES
Maximum super-elevation above ℄ = 0.72'
Maximum super-elevation from ℄ = 0.43'
SUPER-ELEVATION CURVE
Distances and stations shown refer to the ℄ of the viaduct.
FUNSTON AVENUE VIADUCTS TO GOLDEN GATE BRIDGE
VIADUCT
DECK PROFILES AND PLAN
BRIDGE DEPARTMENT
34-19
34-20
34-23
AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 40002557

PWA Docket-F
UNIT 2

April 11 1939

Approved for Commanding General
Ninth Corps Area
Colonel, Corps of Engineers
Engineer

Face of Abutment 2
Backwall

Note: Remove existing Catch-basin and Drain and fill opening with Class "A" concrete slab, supported on existing channels. Reinforce with ½"ø bars @ 6" ctrs., both ways, top and bottom.

Remove existing Sidewalk Curb and Railing

Existing 24"x17" Catchbasin and Drain. Move to new position.

Ruby Reflector

14" Conduit

Flasher

Curb Transition.

Existing 27"@91"I

Existing 36"@150"I

New 30"@200"I

New 24"@110"I

1" Expansion Joint

Remove existing 27"x ?" Standard Pull-box

Cutting line

Remove existing Curb, Sidewalk and Railing New 30"@124"I

1½" Expansion Joint in Railing.

"½C" line

Sta. 0+67.55

14"x4" bars top & bottom

4'-6"x2'-8" Pull-box

2½"

12.38

14.29

0+00

B.C. E. of Railing

B.C. Face of Wall

B.C. Top of Curb

Sta. 0+171.76 B.C. of Roadway and Bottom of Curb. C.G.Br. 26+42.39

P.O.C. of Roadway and Bottom of Curb.

C.G.Br. 26+10.97

C.G.Br. 25+93.47

C.G.Br. 25+54.19

C.G.Bow 25+80.19

℄ Bent #3

℄ Bent #2

℄ Bent #1

39'-3½"

39'-8"

½" ø bars @ 6" ctrs, top and bottom.

18'-0" to C.G.B. Line

12'-0"

Top Reinforcement ½"ø bars @ 6" ctrs. | ⅝"ø bars @ 16" ctrs. | ⅝"ø bars @ 10" ctrs. | ⅝"ø bars @ 7" ctrs. | ½"ø bars @ 5" ctrs.

Bottom Reinforcement ½"ø bars @ 15" ctrs.

4'-6" | 10'-0" | 7'-0" | 7'-0" | 3'-0"

Standard Pull-box

Remove existing 27"x ?"

2¼" Conduit
1½" ø Conduit
4" ø Conduit

℄ Railing

⅝" Expansion Material under overlapping portion

1" Exp. Jt.

End of Roadway Slab

Lap spacers 2'-0" into deck slab

Illuminated sign on a post 14'-0" from ℄ roadway

1"ø conduit from ℄ flasher & sign

Reset Curb Drain and connect to new

Connect flasher with existing

Water Main

Sidewalk and Curb Slab

½"ø spacers

Top Reinforcement ⅝"ø bars @ 12" ctrs | ⅝"ø bars @ 7" ctrs | ⅝"ø bars @ 5" ctrs.

Bottom " ½"ø bars @ 12" ctrs. | ½"ø bars @ 5" ctrs.

8'-9" | 8'-9" | 12'-6"

½"ø bars @ 6" ctrs, 9'-3" ℄ r = 70'

½"ø bars @ 12" ctrs, 6'-6" to 5½" Bullnose

½" Expansion Joint

Pedestrian Ramp

9" Curb

10½" Curb

10'-0"

1'-0" Curb

Sta. 0+81.35

R=134.28

R=142.28

R=142.00

R=140.45

Sidewalk Slab Reinforcement

6'-1"

Transition Curves Δ=10°-00'-00"

P.C.C. of all Transition Curves

Transition Curve Data
Δ = 10°-00'-00" for all curves

Bottom of Curb	R = 142.28	
	L = 24.93	
	T = 12.45	
Top of Curb	R = 134.28	
	L = 26.94	
	T = 13.50	
Face of Wall	R = 211.76	
	L = 38.98	
	T = 19.53	
℄ of Railing	R = 216.28	216.02
	L = 37.99	
	T = 19.04	

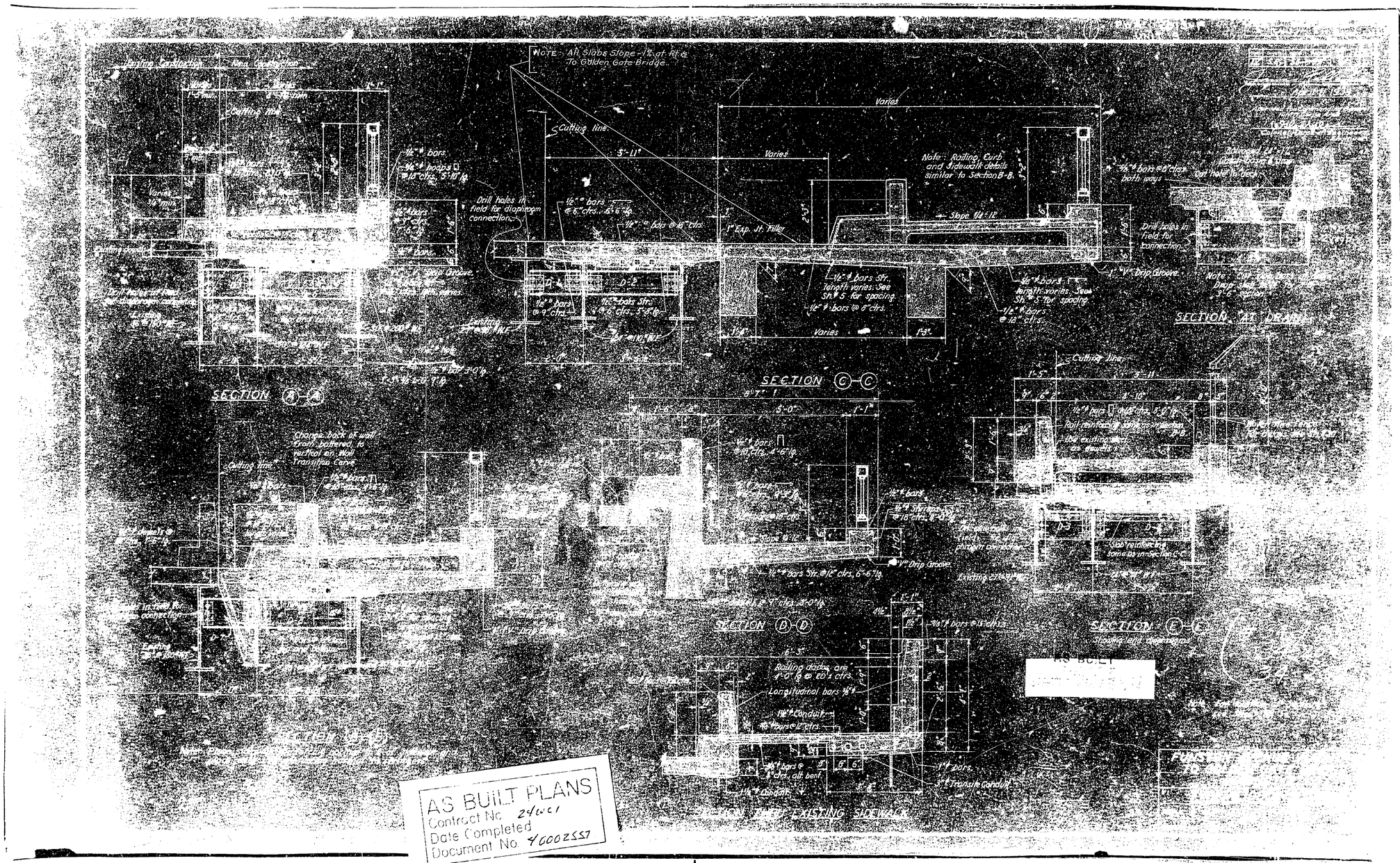
AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 4000255?

AS BUILT

FULTON AVENUE VIADUCT
TO ACCOMPANY PLANS

PLAN

34-11
34-25

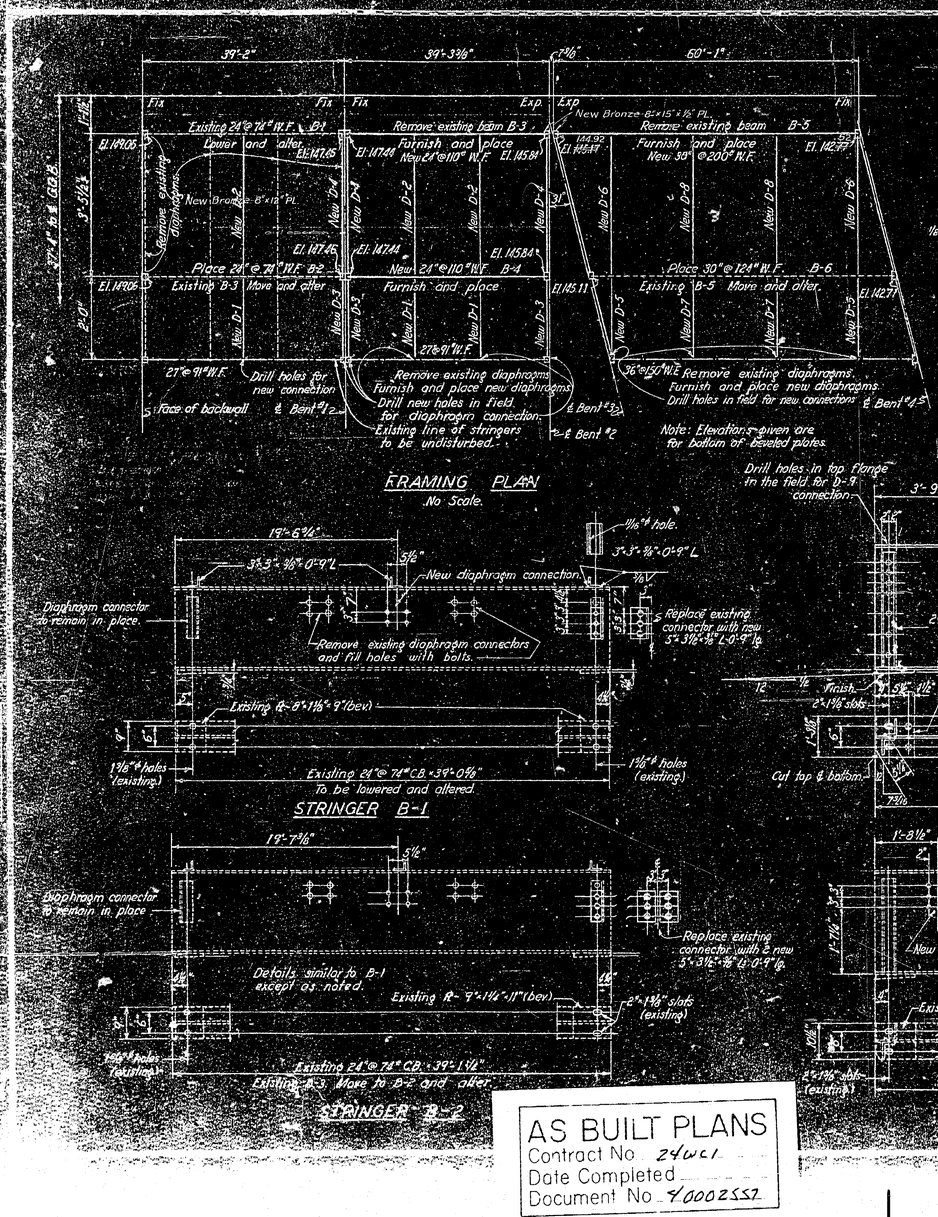

NOTE: All Slabs Slope 1% at Rt. ∠ To Golden Gate Bridge.
Cutting line
Varies
Note: Railing, Curb and Sidewalk details similar to Section B-B.
Drill holes in field for diaphragm connection
Drill holes in field for connection
1" Exp. Jt. Filler
Slope 1/4:12
1" Drip Groove
SECTION A-A
SECTION C-C
SECTION D-D
SECTION E-E
SECTION AT DRAIN
Change back of wall from battered to vertical on Wall Transition Curve
Railing dados are 4'-0" lg. @ 20'± ctrs.
Longitudinal bars 3/8"φ
1 1/2" Conduit
1" Transit Conduit
EXISTING SIDEWALK
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 46002557

PWA 2013-F
UNIT 3

Dist.	County	Route	Section	Sheet No.	Total Sheets
12	S.F.	SF	34.19	7	101

April 11, 1939

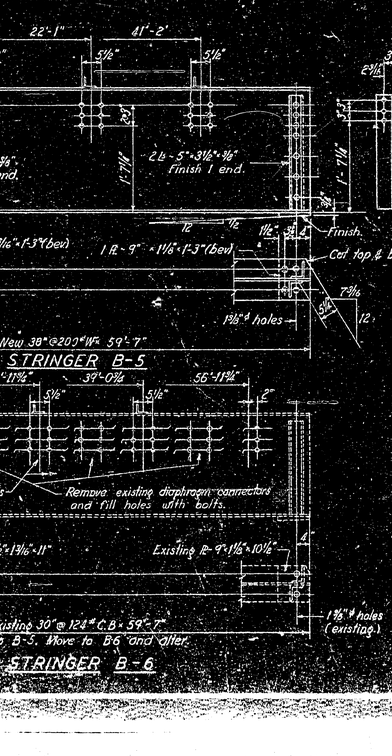
Approved for Commercially Used Concrete
Wm. Sadler
Colonel, Corps of Engineers
Engineer



FRAMING PLAN
No Scale.

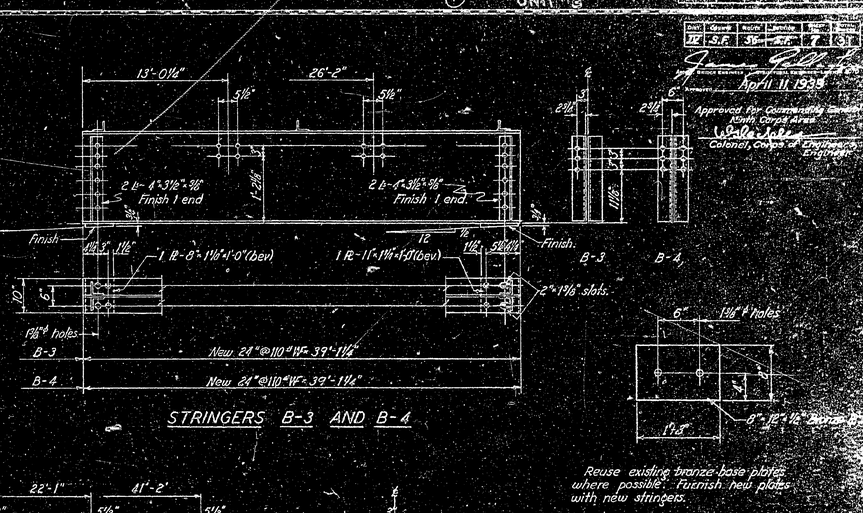
STRINGER B-1

STRINGER B-2



STRINGER B-5

STRINGER B-6



STRINGERS B-3 AND B-4

Reuse existing bronze base plates where possible. Furnish new plates with new stringers.

BRONZE BASE PLATES

Note: For details of diaphragms see Sheet No. 6.
D-1 and D-2 are 10°-1 @ 25.4"
D-3 and D-4 are 12°-6 @ 25" and 3½"×2½"×⅜" L
D-5 and D-6 are 12°-1 @ 25"
D-7 and D-8 are 12°-1 @ 31.0"

AS BUILT
CONTRACT 24WC1
P.W.A. Calif. 2013-F Unit 3
Contract accepted July 6, 1940

Note: Field connections to be bolted with ⅞" ø Dardelet rivet bolts.
All rivets to be ⅞" ø.
All rivet holes to be 15/16" ø.

Details shown are obtained from shop drawings of existing structure. Contractor shall verify dimensions by field measurement before proceeding with fabrication.

(34-19
34-20
34-23)

FUNSTON AVENUE VIADUCTS TO GOLDEN GATE PARK
VIADUCT
STRUCTURAL STEEL DETAILS
PLATE NO. 5

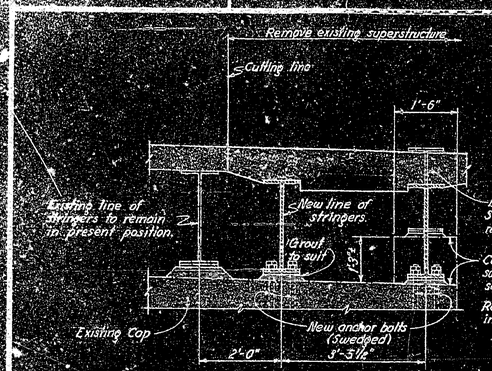
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 400025S7

FWA 2013-F
UNIT 3

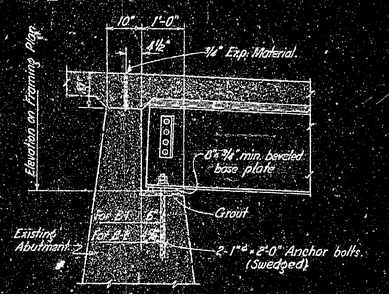
Date	County	Route	Section	Sheet	No.
7/40	S.F.	56	6-A	2	33

April 11, 1939

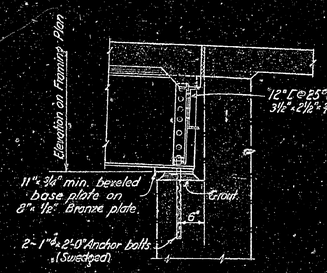
Approved for Commanding General
Ninth Corps Area
L. B. Gerhardt
Colonel, Corps of Engineers,
Engineer.



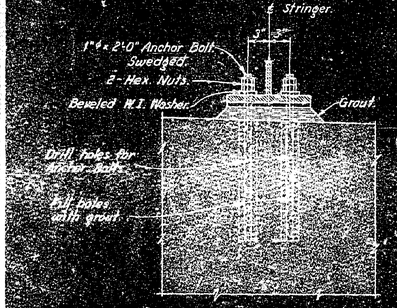
TYPICAL ELEVATION AT BENT CAP
Scale: ¾"=1'-0"



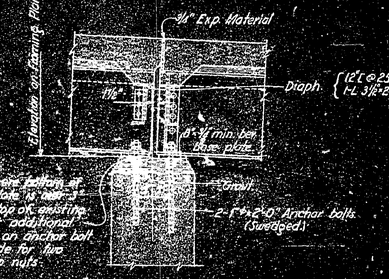
AT ABUTMENT



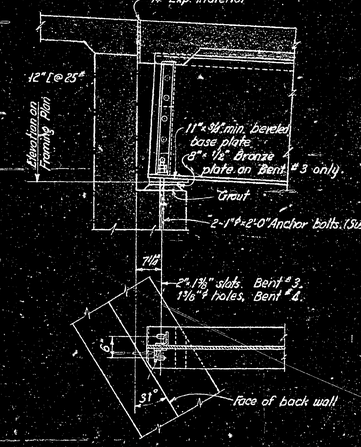
AT BENT No 2



ANCHOR BOLT DETAIL
Scale: 1½"=1'-0"



AT BENT No 1



AT SKEWED BENTS No 3 & No 4

BEARING DETAILS
Scale: ¾"=1'-0"

AS BUILT
Contract No. 24WC1
Fwa. Calif. 213-F Unit 3
Contract accepted July 6, 1940

AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 4000255?

#34-19
34-20
34-23

FUNSTON AVENUE VIADUCT TO GOLDEN GATE BRIDGE
VIADUCT
BEARING DETAILS

EWA 2513-F
UNIT 3

DIST.	COUNTY	ROUTE	SUBMISSION	SHEET NO.	TOTAL SHEETS
7	S.F.			9	31

April 11, 1939

Approved For Commanding General
Ninth Corps Area

Colonel, Corps of Engineers,
Engineer.

30'-0"
8'-9" 2'-4" 19'-4" 1'-0"
1" ⌀ bars 7'-10" lg.
1" Expansion
2-7/8" ⌀ bars 33'-6" lg.
2-7/8" ⌀ bars Str 12'-0" lg.
6'-0"
Extend 5'-0" into slab on cellular structure wall.
2'-6"
1/2" ⌀ bars 7'-5" lg. Total-4
1'-0" 1'-8" 2'-0"
2-1" ⌀ bars 30'-6" lg.
6@12" 5@12" 2@15" 3@16" 2@15" 2@12" 4@10"
1" ⌀ bar 12'-0" lg.
1/2" ⌀ Stirrups
1/2" ⌀ Stirrups

SECTION (A)-(A) INTERIOR GIRDER
Scale-1/2"=1'-0"

7/8" ⌀ bars 33'-6" lg.
1/2" ⌀ Stirrups
1" ⌀ bars Str., 30'-6" lg.
6" 6" 6"
2@5 1/2" 2 1/2"
1'-4"

SECTION (A)-(A)
Scale-1"=1'-0"

1/2" ⌀ bars @12" ctrs., 8'-9" lg.
8-7/8" ⌀ bars 33'-6" lg.
2-1" ⌀ bars 33'-6" lg.
2-1" ⌀ bars Str., 30'-0" lg.
1" ⌀ bars 33'-6" lg., Total-4
1" ⌀ bar Str., 30'-0" lg., Total-2
7/8" ⌀ bars 33'-6" lg., Total-6
1/2" ⌀ bars @12" ctrs., 8'-9" lg.
7/8" ⌀ bars @ 1st ctrs. 3'-0" lg.
1" ⌀ dowels, 6'-8" lg., Total-12
1/2" ⌀ bars @12" ctrs., Str., Total-4
1/2" ⌀ bars @18" ctrs.
4@6 1/2" 5'-6"
2'-0" 4" 3'-6"
Elev. 116
Note: For bottom Steel see Footing Plan.
2@10" 2" 2"
2'-0"

SECTION (Z)-(Z)
Scale-1/2"=1'-0"

SECTION (C)-(C)
Scale-1"=1'-0"

7/8" ⌀ bars Str. 10'-0" lg.
7/8" ⌀ bars 34'-0" lg.
1" ⌀ bars 12'-0" lg.
7/8" ⌀ bars 34'-0" lg.
1/2" ⌀ Stirrups
1" ⌀ bars Str. 31'-0" lg.
2'-6" 8" 6" 6" 6"
El. 14.573
2 1/2" 10 1/2" 2 1/4"
1'-3"
1" ⌀ bar Str. 12'-0" lg.
2 1/2" 10 1/2" 2 1/4"
1'-3"

SECTION (D)-(D)
Scale-1"=1'-0"

SECTION (E)-(E)
Scale-1"=1'-0"

30'-5 1/2"
9'-11 1/2" 7'-9" 19'-2"
2-7/8" ⌀ bars Str. 10'-0" lg. centered over Pier
2-1" ⌀ bars 31'-0" lg.
2-7/8" ⌀ bars 34'-0" lg.
6'-0"
2-1" ⌀ bars Str 12'-0" lg.
Extend 5'-0" into slab on cellular structure wall.
2'-6"
1" ⌀ bar 12'-0" lg.
7@12" 2'-0" 4@12" 2@15" 3@17" 2@15" 2@12" 4@10"
3'-4"
1/2" ⌀ Stirrups
1/2" ⌀ Stirrups

SECTION (Y)-(Y)
Scale-1/2"=1'-0"

Center of Pier = Sta. 26+01.22 G.G.B. & H.D.
9'-9"
37°-5'-6" E G.G.B. & H.D.
20'-3"
3'-3"
5'-3"
Face of Wall
38°-54'-07" G.G.B. & H.D.
Elev. 14.23 at top of deck slab.
1/2" ⌀ bars @ 18" ctrs.
For details of slab and typical cross section see Section C-C Sheet No. 6.

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

11'-0"
2'-9" 5'-6" 2'-9"
3'-6"
2'-0"
1/2" ⌀ bars @ 5" ctrs
Total: 8-12'-3" lg.
40°-7' from G.G.B. & H.D. Sta 26+01.22

PLAN OF FOOTING
Scale-1/2"=1'-0"

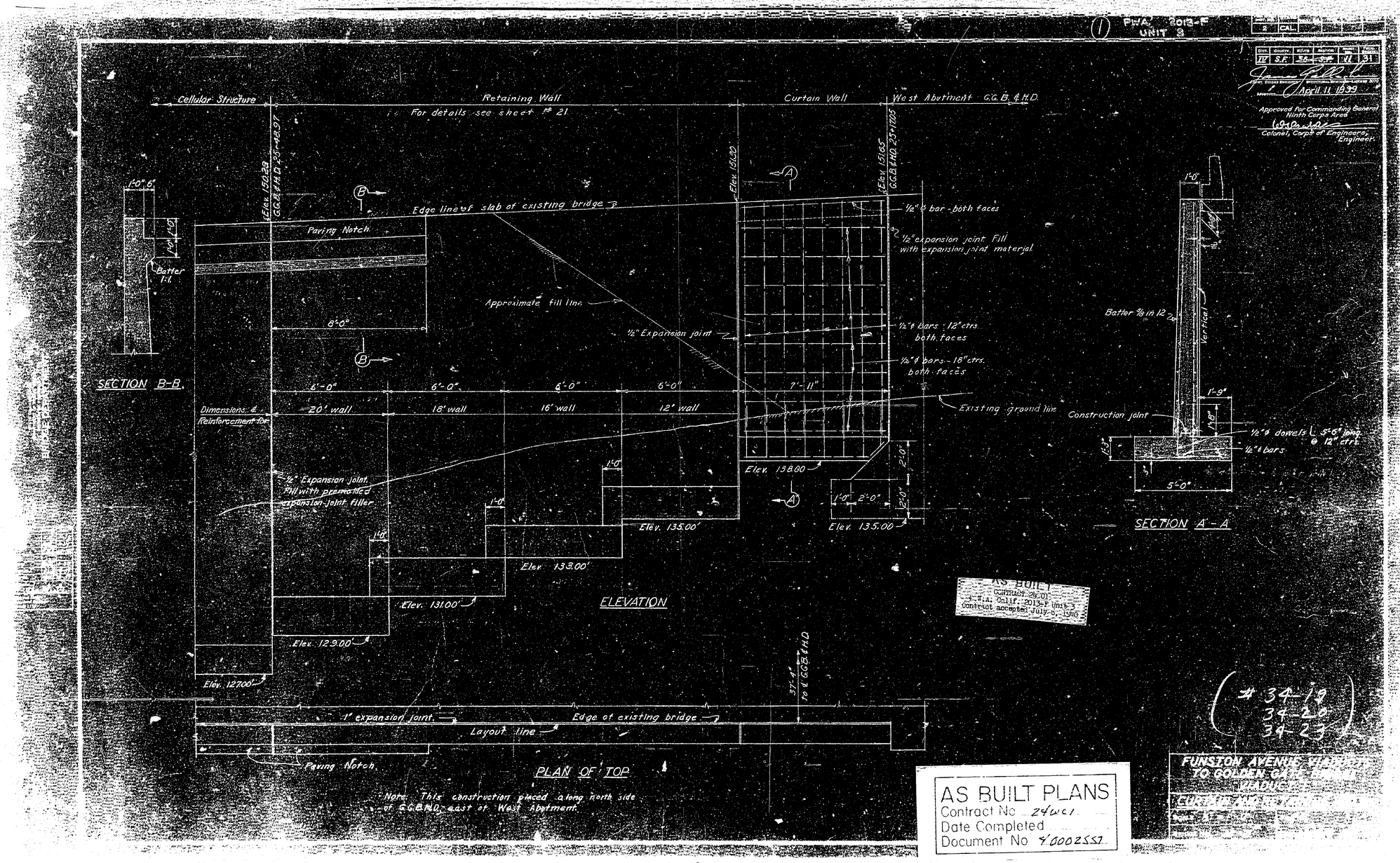
AS BUILT
Contract accepted July 8, 1940

(#34-19
34-20
34-21)

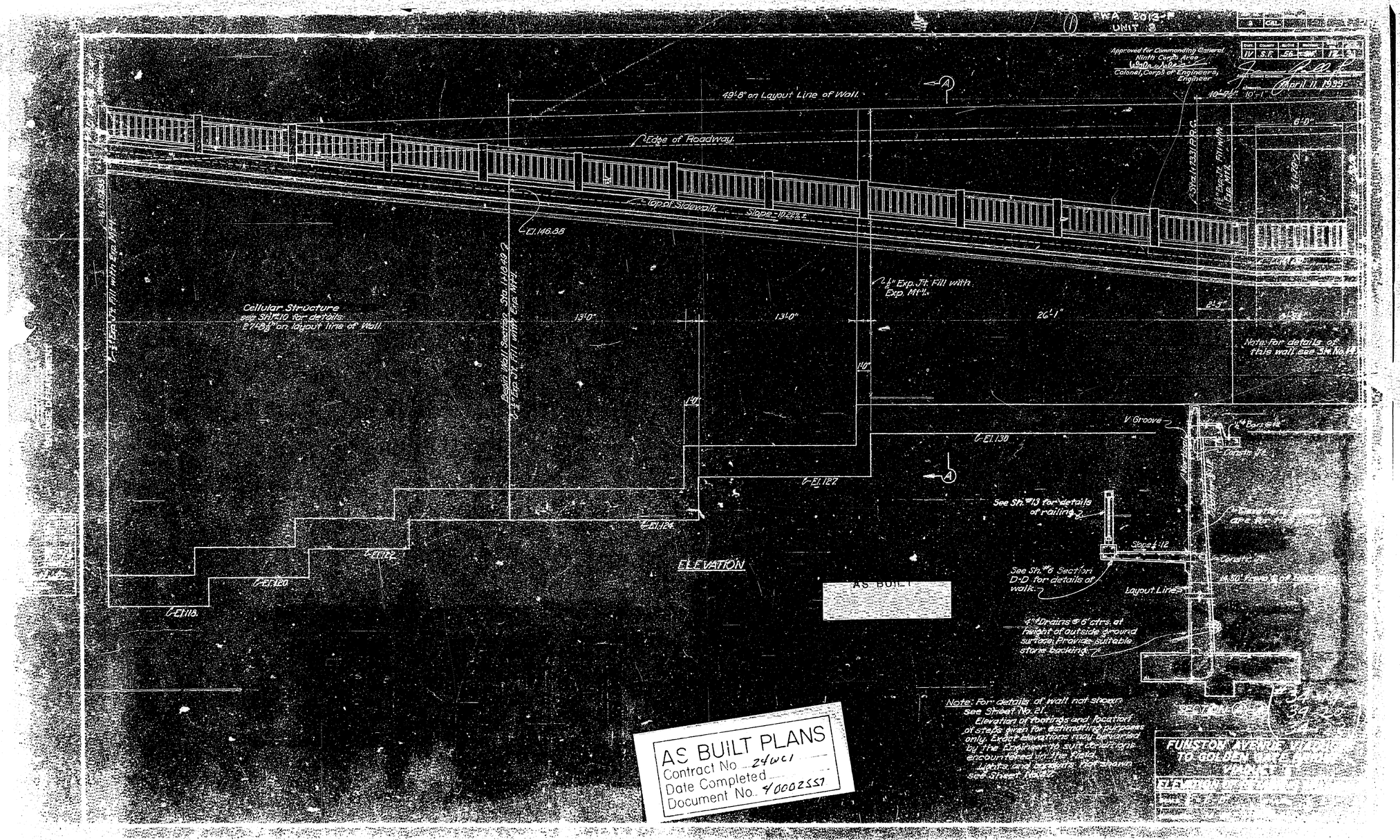
FONSTON AVENUE, HARBOR
TO GOLDEN GATE PARK
PIER AND [illegible]

AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 4000255?

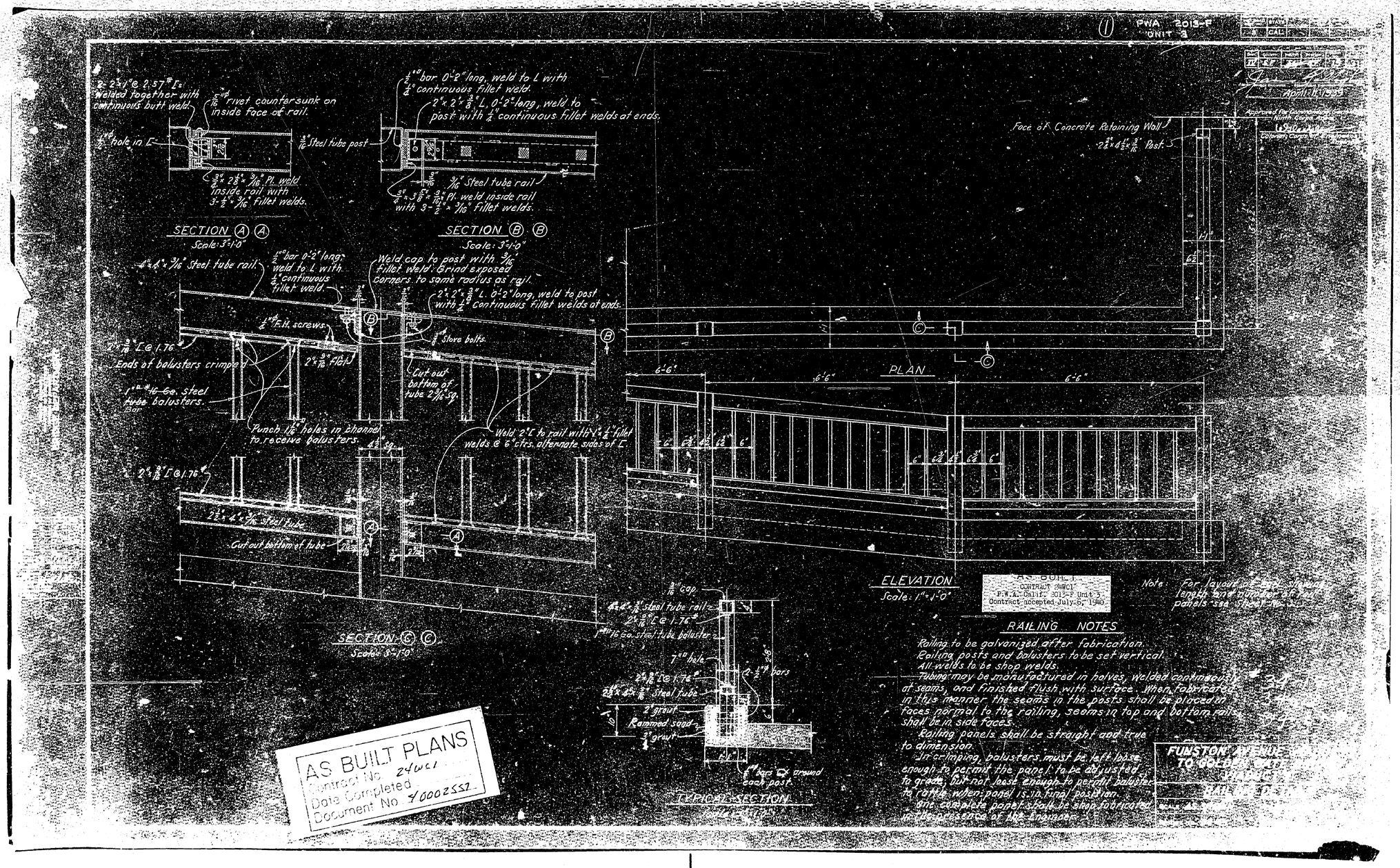
AS BUILT PLANS
Contract No. 24WC1
Date Completed.
Document No. 40002557

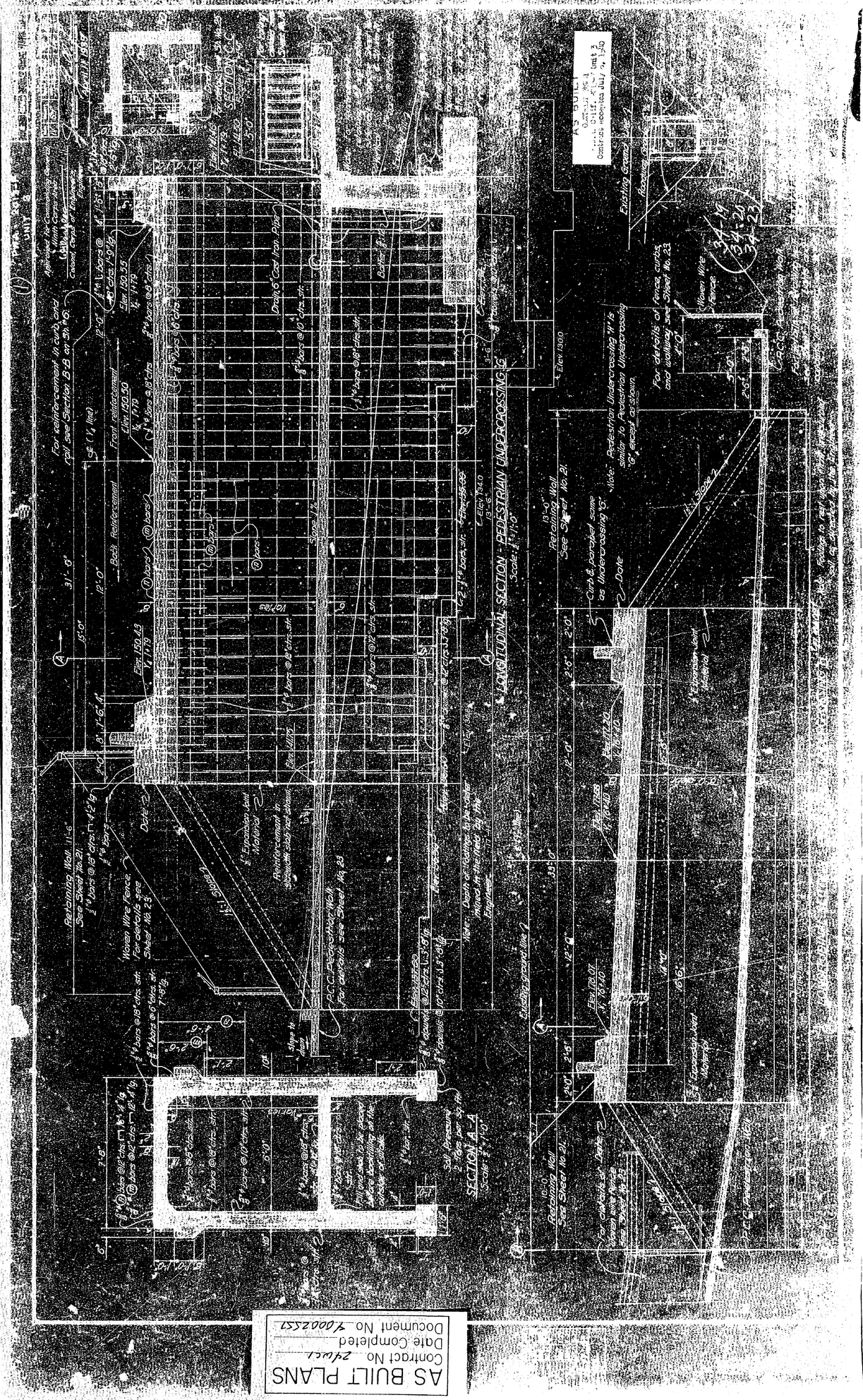


PWA 2013-F
UNIT 3
April 11 1939
Approved for Commanding General Ninth Corps Area
Colonel, Corps of Engineers, Engineer.
Cellular Structure
Retaining Wall
For details see sheet # 21
Curtain Wall
West Abutment G.G.B. & H.D.
Elev. 150.29 G.G.B. & H.D. 25+48.97
Elev. 151.30
Elev. 151.65 G.G.B. & H.D. 25+17.05
Edge line of slab of existing bridge
Paving Notch
Approximate fill line
½" Expansion joint
½" ϕ bar - both faces
½" expansion joint. Fill with expansion joint material
½" ϕ bars - 12" ctrs. both faces
½" ϕ bars - 18" ctrs. both faces
Existing ground line
Batter 1:1
SECTION B-B
Dimensions & Reinforcement for
20' wall
18' wall
16' wall
12' wall
6'-0"
7'-11"
½" Expansion joint. Fill with premolded expansion joint filler
Elev. 138.00
Elev. 135.00
Elev. 133.00
Elev. 131.00
Elev. 129.00
Elev. 127.00
ELEVATION
Batter ⅝ in 12
Vertical
Construction joint
½" ϕ dowels 5'-6" long @ 12" ctrs.
½" ϕ bars
5'-0"
SECTION A-A
AS BUILT
CONTRACT 24W01
P.W.A. Calif. 2013-F Unit 3
Contract accepted July 6, 1940
37'-4" to ℄ G.G.B. & H.D.
1" expansion joint
Edge of existing bridge
Layout line
Paving Notch
PLAN OF TOP
Note: This construction placed along north side of G.G.B. & H.D. east of West Abutment.
#34-19
34-20
34-23
FUNSTON AVENUE
TO GOLDEN GATE
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 4000255

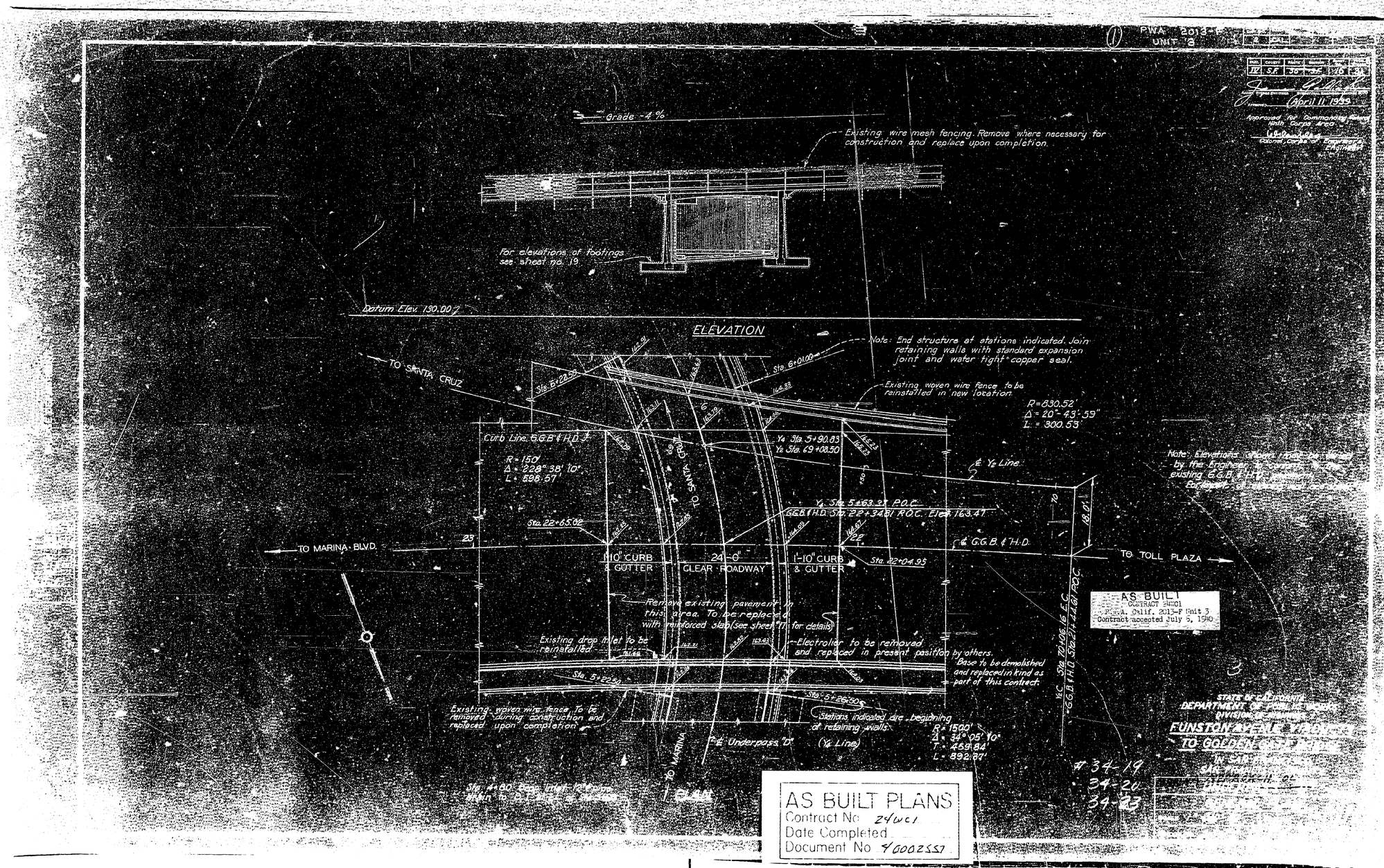


FWA 2013-F
UNIT 3
Approved for Commanding General
Ninth Corps Area
Colonel, Corps of Engineers,
Engineer
April 11, 1939
49'-8" on Layout Line of Wall
Edge of Roadway
Top of Sidewalk
Slope -10.22%±
El. 146.88
Cellular Structure
see Sh. #10 for details
27'-8 1/8" on layout line of Wall
13'-0"
13'-0"
26'-1"
1/2" Exp. Jt. Fill with Exp. Mt'l.
Note: For details of this wall see Sh. No. 14
V Groove
El. 130
El. 127
El. 124
El. 122
El. 120
El. 118
ELEVATION
AS BUILT
See Sh. #13 for details of railing
See Sh. #6 Section D-D for details of walk
Layout Line
4" Drains @ 6' ctrs. at height of outside ground surface. Provide suitable stone backing
Note: For details of wall not shown see Sheet No. 21.
Elevation of footings and location of steps given for estimating purposes only. Exact elevations may be varied by the Engineer to suit conditions encountered in the field.
Lights and conduits not shown see Sheet No. 23
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557

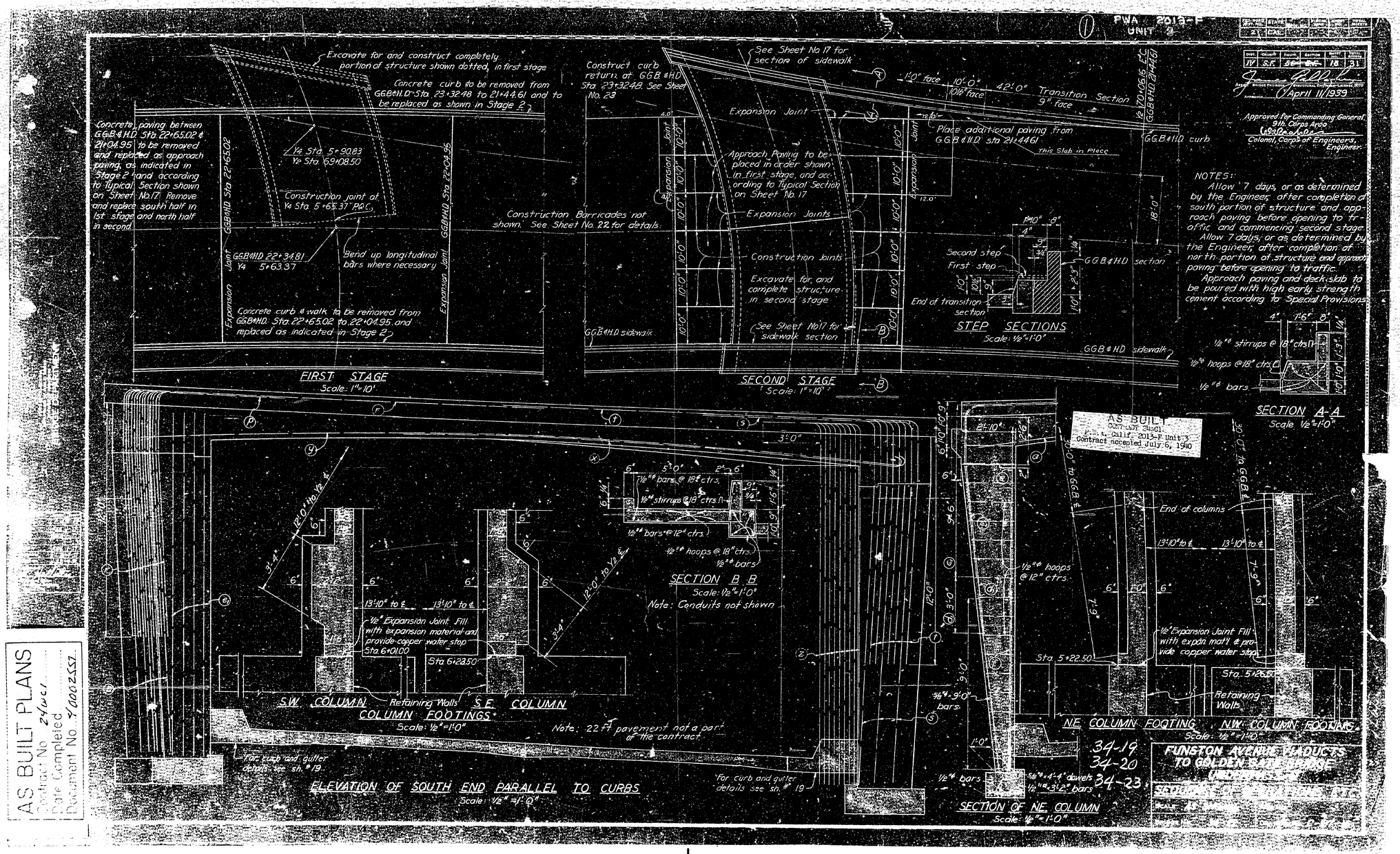

PWA 2013-F
UNIT 3
SECTION (A) (A)
Scale: 3"=1'-0"
SECTION (B) (B)
Scale: 3"=1'-0"
SECTION (C) (C)
Scale: 3"=1'-0"
PLAN
ELEVATION
Scale: 1"=1'-0"
TYPICAL SECTION
Face of Concrete Retaining Wall
Steel tube post
Steel tube rail
Ends of balusters crimped
Punch 1 1/16" holes in channel to receive balusters.
Cut out bottom of tube
Weld cap to post with 3/16" fillet weld. Grind exposed corners to same radius as rail.
Rammed sand
AS BUILT
CONTRACT 24WC1
P.W.A. Calif. 2013-F Unit 3
Contract accepted July 6, 1940
RAILING NOTES
Railing to be galvanized after fabrication.
Railing posts and balusters to be set vertical.
All welds to be shop welds.
Tubing may be manufactured in halves, welded continuously at seams, and finished flush with surface. When fabricated in this manner the seams in the posts shall be placed in faces normal to the railing, seams in top and bottom rails shall be in side faces.
Railing panels shall be straight and true to dimension.
In crimping, balusters must be left loose enough to permit the panel to be adjusted to grade, but not loose enough to permit balusters to rattle when panel is in final position.
One complete panel shall be shop fabricated in the presence of the Engineer.
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002552



AS BUILT PLANS
Contract No 24wcl
Date Completed
Document No 7000251



PWA 2013-F
UNIT 3
April 11, 1939
Grade -4%
Existing wire mesh fencing. Remove where necessary for construction and replace upon completion.
For elevations of footings see sheet no. 19
Datum Elev. 130.00
ELEVATION
Note: End structure at stations indicated. Join retaining walls with standard expansion joint and water tight copper seal.
Existing woven wire fence to be reinstalled in new location.
R=830.52'
Δ=20°-43'-59"
L=300.53'
TO SANTA CRUZ
Sta. 6+22.59
Sta. 6+01.00
Curb Line G.G.B. & H.D.
R=150'
Δ=228°38'10"
L=598.57'
Y4 Sta. 5+90.83
Y2 Sta. 69+08.50
℄ Y2 Line
Y4 Sta. 5+63.37 P.O.C.
G.G.B. & H.D. Sta. 22+34.81 P.O.C. Elev. 163.47
Sta. 22+65.02
TO MARINA BLVD.
℄ G.G.B. & H.D.
TO TOLL PLAZA
1'-10" CURB & GUTTER
24'-0" CLEAR ROADWAY
1'-10" CURB & GUTTER
Sta. 22+04.95
Remove existing pavement in this area. To be replaced with reinforced slab (see sheet 17 for details)
Existing drop inlet to be reinstalled
Electrolier to be removed and replaced in present position by others.
Base to be demolished and replaced in kind as part of this contract.
Sta. 5+22.50
Sta. 5+26.50
Existing woven wire fence to be removed during construction and replaced upon completion
Stations indicated are beginning of retaining walls.
℄ Underpass "D" (Y4 Line)
R=1500'
Δ=34°05'10"
T=459.84'
L=892.87'
TO MARINA
PLAN
AS BUILT
CONTRACT 24WC1
P.W.A. Calif. 2013-F Unit 3
Contract accepted July 5, 1940
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
FUNSTON AVENUE
TO GOLDEN GATE
#34-19
34-20
34-23
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557


PWA 2013-F
UNIT 3
Approved for Commanding General, 9th Corps Area
Colonel, Corps of Engineers, Engineer.
April 11/1939
NOTES:
Allow 7 days, or as determined by the Engineer, after completion of south portion of structure and approach paving before opening to traffic and commencing second stage.
Allow 7 days, or as determined by the Engineer, after completion of north portion of structure and approach paving before opening to traffic.
Approach paving and deck slab to be poured with high early strength cement according to Special Provisions.
Excavate for and construct completely portion of structure shown dotted, in first stage
Concrete curb to be removed from GGB&HD Sta. 23+32.48 to 21+44.61 and to be replaced as shown in Stage 2
Construct curb return at GGB&HD Sta. 23+32.48. See Sheet No. 23
See Sheet No. 17 for section of sidewalk
Transition Section
Place additional paving from GGB&HD sta 21+44.61
This Slab in Place
Concrete paving between GGB&HD Sta. 22+65.02 & 21+04.95 to be removed and replaced as approach paving, as indicated in Stage 2 and according to Typical Section shown on Sheet No. 17. Remove and replace south half in 1st stage and north half in second.
Construction joint at Y4 Sta. 5+65.37 P.O.C.
Bend up longitudinal bars where necessary
Construction Barricades not shown. See Sheet No. 22 for details.
Approach Paving to be placed in order shown in first stage, and according to Typical Section on Sheet No. 17
Expansion Joints
Construction Joints
Excavate for and complete structure in second stage
See Sheet No. 17 for sidewalk section
Concrete curb & walk to be removed from GGB&HD Sta. 22+65.02 to 22+04.95 and replaced as indicated in Stage 2
FIRST STAGE
Scale: 1"=10'
SECOND STAGE
Scale: 1"=10'
STEP SECTIONS
Scale: 1/2"=1'-0"
SECTION A-A
Scale 1/2"=1'-0"
SECTION B-B
Scale: 1/2"=1'-0"
Note: Conduits not shown
S.W. COLUMN
S.E. COLUMN
COLUMN FOOTINGS
Scale: 1/2"=1'-0"
Retaining Walls
Note: 22 ft pavement not a part of the contract
ELEVATION OF SOUTH END PARALLEL TO CURBS
Scale: 1/2"=1'-0"
For curb and gutter details see sh. # 19
SECTION OF NE COLUMN
Scale: 1/2"=1'-0"
NE COLUMN FOOTING
NW COLUMN FOOTING
Scale: 1/2"=1'-0"
34-19
34-20
34-23
FUNSTON AVENUE HADUCTS TO GOLDEN GATE BRIDGE
AS BUILT
Contract accepted July 6, 1940
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 4000255

Approved for Commanding General
Ninth Corps Area
Colonel, Corps of Engineers
Engineer

April 11, 1939

31'-0"

Reinforcement is symmetrical about ℄

9'-0"

⅞"ϕ shear bars @ 18" ctrs. radially and 20"± longitudinally

⅞"ϕ 20'-9" Ⓓ bars @ 10" ctrs.

¾"ϕ 25'-4" Ⓒ bars @ 10" ctrs.

1'-3"

1'-3"

1'-8"

1'-8"

For deck elevations see Sheet No. 15

1¼"ϕ bars @ 18" ctrs.

Parabola

½"ϕ distribution bars @ 9" ctrs.

¾"ϕ 31'-6" Ⓔ bars @ 10" ctrs.

¾"ϕ 22'-0" Ⓑ bars @ 10" ctrs.

12 @ 9" = 9'-0"

½"ϕ @ 15"ϕ

2'-10"

22'-0"

2'-10"

2'-6"

1'-10"

For details of electric outlet (on ℄ G.G.B. and in easterly face of Underpass D) see Sheet No. 27

⅞"ϕ Ⓒ bars @ 12" ctrs. Length varies

27'-8"

⅞"ϕ Ⓔ bars @ 12" ctrs.

⅞"ϕ, 14'-0" Ⓕ bars @ 12" ctrs.

Vertical

1 lap ϕ 14

6"±

Top slab steel

⅜"ϕ deformed bar

4 laps ϕ 14

1 lap ϕ 14

14" soft wire ties

Bottom slab steel

6"±

90°

⅜"ϕ deformed bar. Bend in shop or field

90°

6"±

℄ main steel to ℄ spacer

SHEAR BARS FOR SLAB STEEL

No scale.

⅝"ϕ shear bars @ 18" ctrs. vertically and 20" ctrs. longitudinally

5/8"ϕ bars @ 18" ctrs.

5/8"ϕ 9'-0" bars @ 20" ctrs.

½"ϕ bars @ 18" ctrs.

See sh.# 19 for curb and gutter reinforcement

See sh.# 19 for curb and gutter reinforcement

24'-0" Roadway

12'-0"

12'-0"

4" ϕ Weep holes @ 6'-4" centers. Provide suitable rock backing for weep holes

1'-6"

4"

Superelevation .064 ft/ft

2'-0"

2'-0"

2'-0"

2'-0"

11'-0" standard lane

Ground Line as excavated

11'-0" standard lane

8" P.M.P. Underdrain

8" P.M.P. Underdrain

℄ structure

NOTE: 22 ft. pavement not a part of this contract

1'-6"

2'-0"

1'-6"

TYPICAL SECTION NORMAL TO Y4 LINE

Construction Joint Expansion Joint G.G.B. Sta. 22+65.02

Remove all existing dowels along joint

½"ϕ bars @ 30" ctrs. top

½" bars @ 30" ctrs. bottom

¾"ϕ bars top & bottom

2'-6"

6"

SECTION D-D

℄ Highway G.G.B.

½"ϕ bars @ 6" ctrs. top and bottom

Face of Paving Notch

NOTE: Transverse steel does not go through joints.

Place ¼" Deflection Joint in wall, stem at center of span

1'-4"

5'-0"

2"

6'-9"

¾"

½"ϕ stirrups @ 18" ctrs. placed parallel to ℄ of fence post

Slope = ¼"/1ft. Down

½"ϕ bars

½"ϕ stirrups @ 18" ctrs.

2"x6" opening

Varies

½"ϕ stirrups @ 18" ctrs. placed parallel to Y4 ℄

NOTE: See Sheet No. 18 for location of Sections A-A and B-B

SECTION A-A

2"

1'-5"

8"

10"

½"ϕ bars

½"ϕ stirrups @ 12" ctrs. placed parallel to Y4 ℄

SECTION B-B

SIDEWALK CROSS SECTION

Scale: ¾"=1'0"

Cover Finish to follow with ℄ of Y4

Varies

Varies

Cold joint perfectly clean

Construction Joint

SECTION C-C

CONSTRUCTION JOINT IN DECK SLAB AT STATION 5+65.37 POS. Y4

Y4 Sta. 6+28.50

¾"ϕ dowels @ 12" ctrs. 60°-0"

½"ϕ bars @ 9" ctrs.

½"ϕ bars @ 12" ctrs.

⅞"ϕ Ⓕ bars

12'-0" to Y4 ℄

½"ϕ hoops @ 12" ctrs.

⅞"ϕ, 19'-0" Ⓖ bars @ 12" ctrs.

¼"ϕ, 23'-0" Ⓩ bars @ 5" ctrs.

S.E.

1'-2" at

CROSS SECTION OF SOUTH END COLUMN

Scale: ¾"=1'-0"

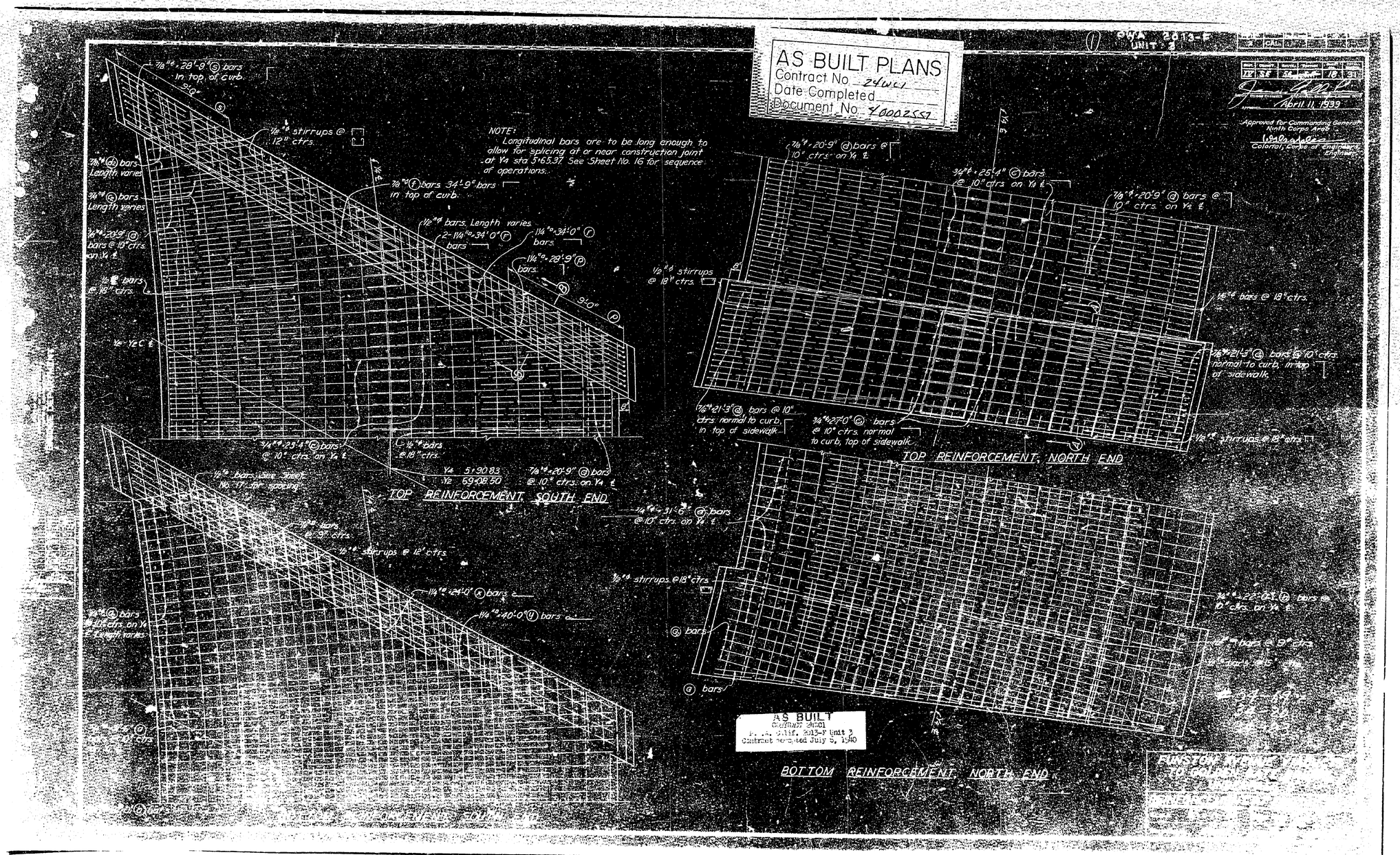
See Sheet No. 17

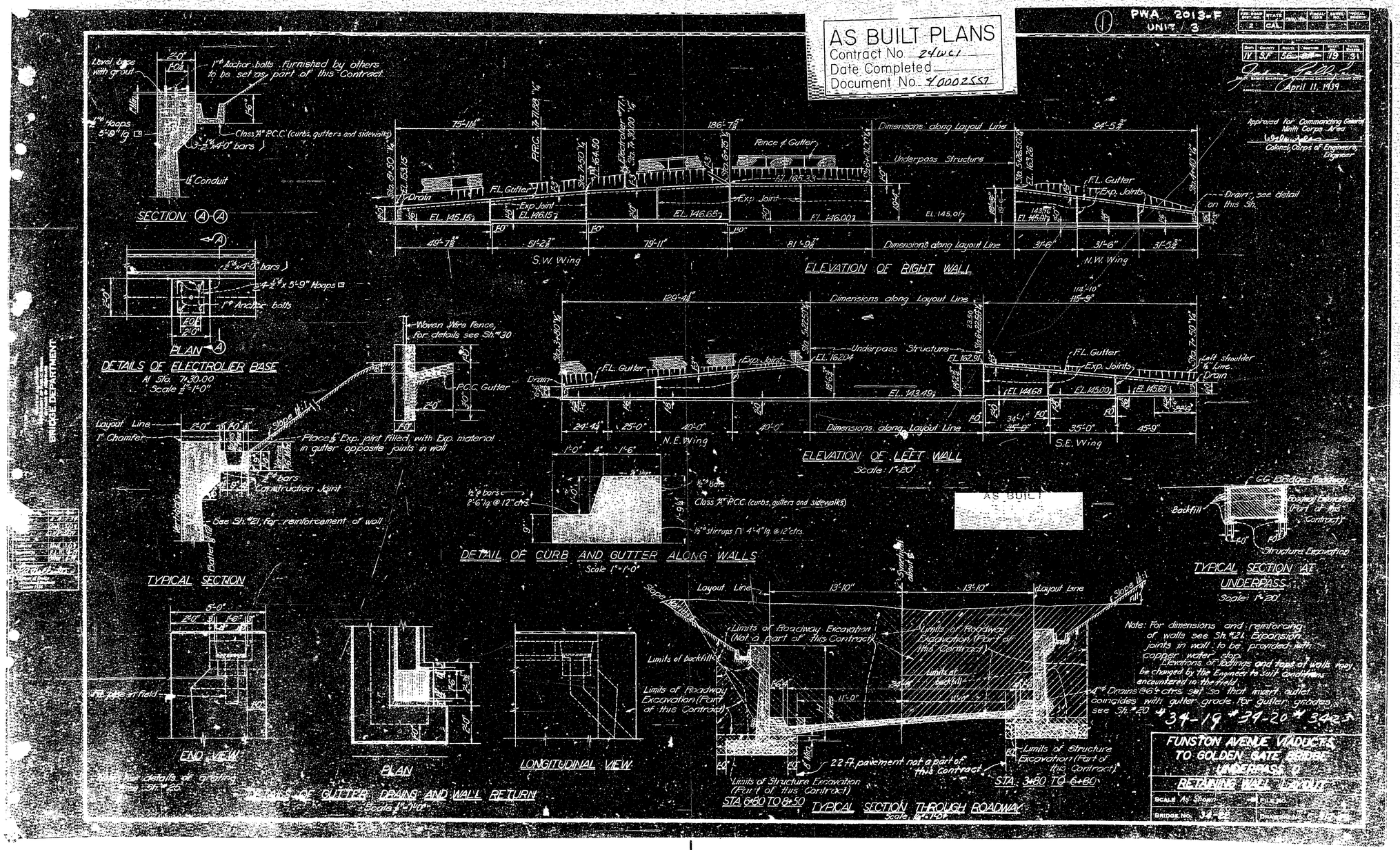
AS BUILT
Work not done
As per C.E. Letter dated
Contract modified July 6, 1940

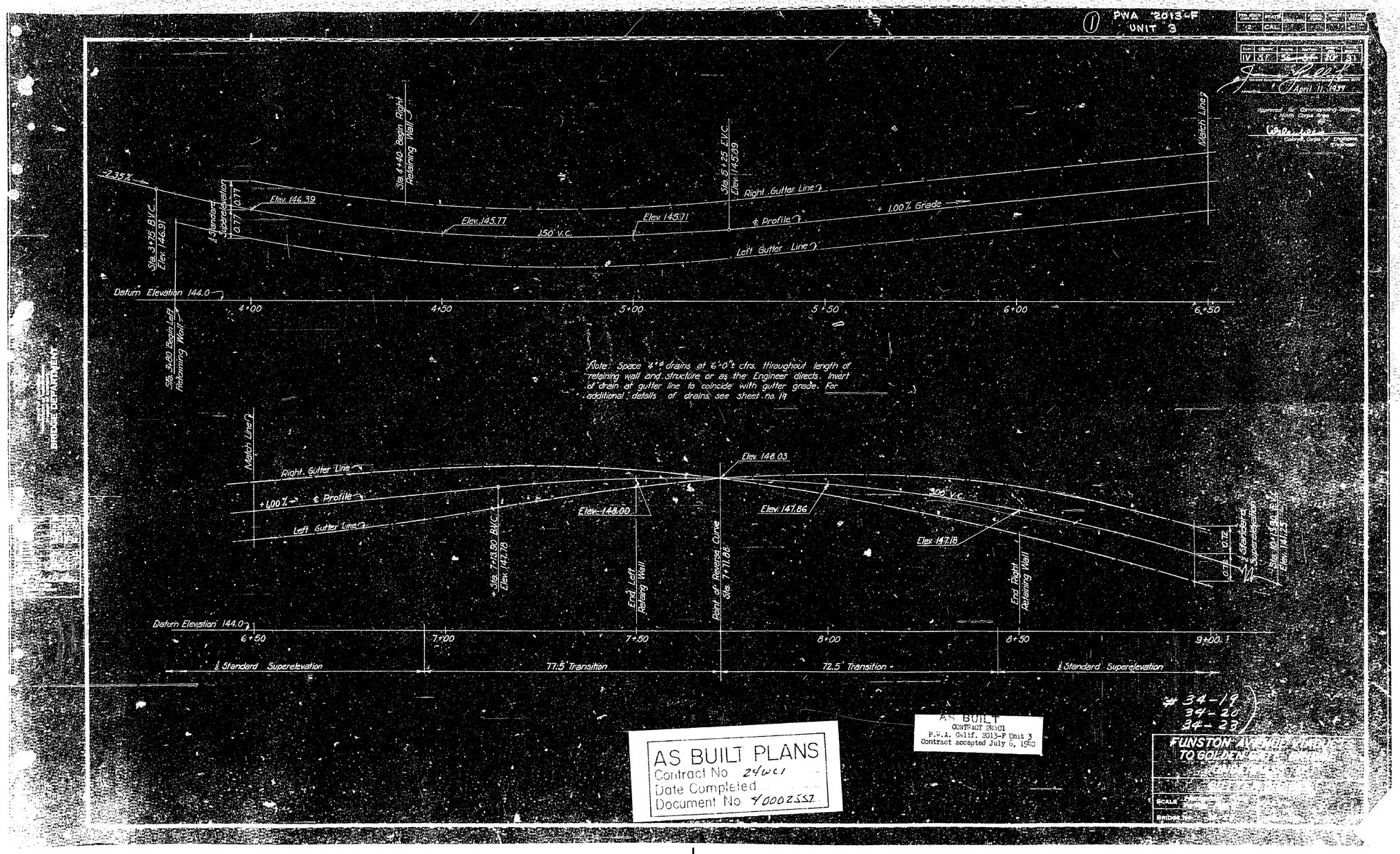
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557

#34-19
34-20
34-23

FURSTON
FOR GUIDE


AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557
April 11, 1939
Approved for Commanding General Ninth Corps Area
Colonel, Corps of Engineers
NOTE:
Longitudinal bars are to be long enough to allow for splicing at or near construction joint at Y4 sta 5+65.37. See Sheet No. 16 for sequence of operations.
TOP REINFORCEMENT, SOUTH END
TOP REINFORCEMENT, NORTH END
BOTTOM REINFORCEMENT, NORTH END
AS BUILT
Contract 24WC1
P. A. Calif. 2013-F Unit 3
Contract accepted July 5, 1940


AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557
PWA 2013-F
UNIT 3
April 11, 1939
Approved for Commanding General Ninth Corps Area
Colonel, Corps of Engineers, Engineer
SECTION A-A
PLAN
DETAILS OF ELECTROLIER BASE
At Sta. 71+30.00
Scale 1/2"=1'-0"
ELEVATION OF RIGHT WALL
ELEVATION OF LEFT WALL
Scale: 1"=20'
DETAIL OF CURB AND GUTTER ALONG WALLS
Scale 1"=1'-0"
TYPICAL SECTION
TYPICAL SECTION AT UNDERPASS
Scale: 1"=20'
END VIEW
PLAN
LONGITUDINAL VIEW
DETAILS OF GUTTER DRAINS AND WALL RETURN
TYPICAL SECTION THROUGH ROADWAY
Scale 1/4"=1'-0"
Note: For dimensions and reinforcing of walls see Sh. #21. Expansion joints in wall to be provided with copper water stop.
Elevations of footings and tops of walls may be changed by the Engineer to suit conditions encountered in the field.
4" Drains @ 6'± ctrs. set so that invert outlet coincides with gutter grade. For gutter grades see Sh. #20
#34-19 #34-20 #34-23
FUNSTON AVENUE VIADUCTS TO GOLDEN GATE BRIDGE UNDERPASS
RETAINING WALL LAYOUT
SCALE As Shown
BRIDGE NO. 34-22
BRIDGE DEPARTMENT



PWA 2013-F
UNIT 3
April 11, 1939
Approved for Commanding General, Ninth Corps Area
Colonel, Corps of Engineers
Sta. 3+75 B.V.C.
Elev. 146.91
½ Standard Superelevation
0.77
Elev. 146.39
Sta. 4+40 Begin Right Retaining Wall
Elev. 145.77
150' V.C.
Elev. 145.71
Sta. 5+25 E.V.C.
Elev. 145.39
Right Gutter Line
℄ Profile
+ 1.00% Grade
Left Gutter Line
Match Line
Datum Elevation 144.0
4+00
4+50
5+00
5+50
6+00
6+50
Sta. 3+80 Begin Left Retaining Wall
Note: Space 4"ø drains at 6'-0"± ctrs. throughout length of retaining wall and structure or as the Engineer directs. Invert of drain at gutter line to coincide with gutter grade. For additional details of drains see sheet no. 19
Elev. 148.03
Elev. 148.00
Elev. 147.86
Elev. 147.18
300' V.C.
Sta. 7+13.90 B.V.C.
Elev. 147.78
End Left Retaining Wall
Point of Reverse Curve
Sta. 7+71.88
End Right Retaining Wall
0.72
½ Standard Superelevation
Sta. 10+15.90 E.V.C.
Elev. 141.25
6+50
7+00
7+50
8+00
8+50
9+00
½ Standard Superelevation
77.5' Transition
72.5' Transition
½ Standard Superelevation
AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 40002557
AS BUILT
CONTRACT 24WC1
P.W.A. Calif. 2013-F Unit 3
Contract accepted July 6, 1940
#34-19
34-20
34-23
FUNSTON AVENUE
TO GOLDEN GATE

PWA 2012-F
UNIT 3

FED. ROAD DIST. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.				

24	1	1	5	1	31

April 11, 1939

Approved for Commanding General, Ninth Corps Area

Colonel, Corps of Engineers, Engineer

U.S. ROUTE
CONTRACT 24W1
Calif. 2012-F Unit 3
Contract Accepted July 29, 1939

BRIDGE DEPARTMENT

4"ϕ Drains @ 6'± ctrs. Outlet invert grade to be at Roadway gutter grade. For gutter grades see Sheet No. 20. Place drains below level of walk for wall section shown on Sheet No. 14. Place drains at ground line for other locations.

1'-0" Layout Line 1'-0" ½"ϕ bars along top of wall. 2 Dia., 1½" Min. 18" ½"ϕ bars @ 18" ctrs. Vertical 2 Batter ⅛:12 H ⓒ bars ⓔ bars Provide suitable stone backing. W C B Construction Joint 2" ½"ϕ dowels @ 18" ctrs. ½"ϕ bars ½"ϕ bars 1'0" 2 Dia., 2" Min. Stop ⓔ bars. S ½ W Omit key when founded on rock or when so directed by the Engineer.

TYPICAL SECTION "H" = 20' OR LESS

H=26'-0" H=24'-0" H=22'-0" H=20'-0" H=18'-0" H=16'-0" H=14'-0" H=12'-0" H=10'-0" H=8'-0" H=6'-0" ½"ϕ spacer bars @ 18" ctrs. ⓒ bars str. with dowels bent into footing. ⓔ bars bent into footing. ⓒ bar dowels ⓔ bars ⓒ bars 40 Dia. 23'-6" lg. 21'-0" lg. 18'-6" lg. 16'-6" lg. 12'-6" lg. 11'-0" lg. 9'-7" lg. 8'-0" lg. 6'-0" lg. 5' 5' 5' 7'0 7'0 7'0 7'0 6'0 6'0 8'0 10'0

Note: ⓒ bars not shown. ELEVATION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	26'	24'	22'	20'	18'	16'	14'	12'	10'	8'	6'
W	16'-0"	14'-0"	13'-5"	12'-3"	11'-0"	9'-11"	8'-10"	7'-9"	6'-8"	5'-7"	4'-6"
C	5'-0"	5'-1"	4'-8"	4'-3"	3'-10"	3'-5"	3'-0"	2'-7"	2'-2"	1'-9"	1'-4"
B	10'-5"	9'-8"	8'-10"	8'-0"	7'-2"	6'-5"	5'-10"	5'-2"	4'-6"	3'-10"	3'-2"
F	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	1'-8"	1'-6"	1'-5"	1'-3"	1'-2"	1'-2"
S	3'-0½"	3'-0½"	2'-6½"	2'-0½"	1'-7½"	1'-3½"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
ⓐ bars	1"ϕ @ 15"	1"ϕ @ 15"	1"ϕ @ 15"	1"ϕ @ 14"	1"ϕ @ 14"	1"ϕ @ 14"	1"ϕ @ 14"	⅞"ϕ @ 13"	⅞"ϕ @ 16"	⅞"ϕ @ 16"	⅞"ϕ @ 16"
ⓑ bars	1"ϕ @ 15"	1"ϕ @ 15"	1"ϕ @ 15"	1"ϕ @ 14"	1"ϕ @ 14"	1"ϕ @ 14"	1"ϕ @ 14"	⅞"ϕ @ 13"	⅞"ϕ @ 16"	⅞"ϕ @ 16"	⅞"ϕ @ 16"
ⓒ bars	1"ϕ @ 15"	1"ϕ @ 15"	1"ϕ @ 13"								
ⓓ bars	⅛"ϕ @ 7½"	⅛"ϕ @ 7½"	⅛"ϕ @ 7½"	1"ϕ @ 7"	1"ϕ @ 7"	1"ϕ @ 7"	1"ϕ @ 7"	1"ϕ @ 9"	1"ϕ @ 8"	1"ϕ @ 8"	1"ϕ @ 10"
ⓔ bars	1¼"ϕ @ 7½"	1¼"ϕ @ 7½"	1⅛"ϕ @ 7½"								

Typical retaining wall to be used for all walls included in this contract.

1'-0" Layout Lines 8" 1'-6" 4" 1'-0" 1'-6" H 1'3" 10" ½"ϕ bars ½"ϕ Bars @ 12" ctrs. "V" Groove 2 Vertical 2 3" ½"ϕ hoops @ 12" ctrs. 6'-6" lg. Batter ⅛:12 ½"ϕ dowels @ 9" ctrs 1'-0" lg. ½"ϕ dowels @ 18" ctrs. str. 2'-5" lg. Retaining wall reinforcing not shown.

CURB SECTION
Scale: ½"=1'-0"
Use this section between Sta ¼+18.49 & Sta 3+50.00.

2'-0" 1'0" 1'0" Chamfer ½" 2'-0" Batter 1:1 Batter ⅛:12

COPING
Scale: ½"=1'-0"
Use this section between Sta 3+80.00 & Sta 8+50.00.

1'-0" 5" Layout Lines 1'-0" Vertical 2 Batter 1:1 Batter ⅛:12 ⓐ dowels 2 Dia.

PAVING NOTCH SECTION
Scale: ½"=1'-0"
Use this section where required on Sheet No. 11.

1'-0" Layout Line 1'-0" ½"ϕ bars along top of wall. 2 Dia. 18" ½"ϕ bars @ 18" ctrs. Vertical 2 Batter ⅛:12 20'-0" Stop ⓔ bars ⓐ bars ⓐ & ⓔ bars 2'-0½" 4"ϕ Drains @ 6'± ctrs. for elevation see note on section for H less than 20'. Provide suitable stone backing. Batter 1:4 (22'-6" lg. for H=26' 19'-6" lg. for H=24' 16'-6" lg. for H=22') ⓒ bars S W ½"ϕ Swivels @ 18" ctrs. C B Construction Joint ⓔ bars ½"ϕ bars ⓔ bars 1'0" 1'0" Stop ⓒ & ⓔ bars Omit key when founded on rock or when so directed by the Engineer. 1'-0" 1'-0" ½ W

TYPICAL SECTION "H" GREATER THAN 20'

(34-19 34-20)

W B S ½"ϕ Spacer bars Copper Seal ½" Expansion joint, fill with premolded expansion joint filler. Joint to extend throughout height of wall only. Locate joints @ 30'± ctrs. or as directed by the Engineer.

PLAN OF EXPANSION JOINT.

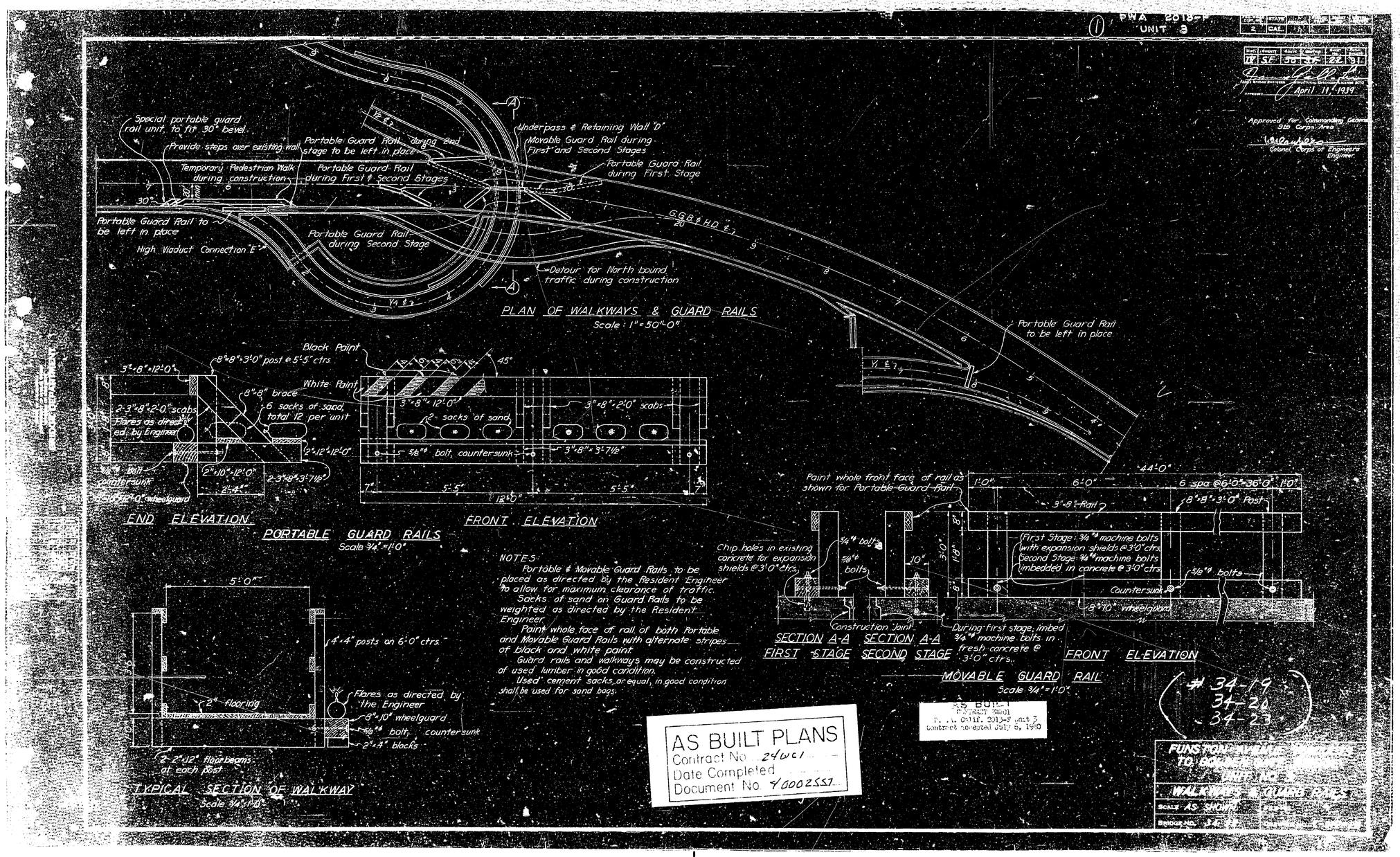
Sheet Copper #22 Stubs Gauge 1"×4" Holes @ 8" ctrs. ½" Sheet of Exp. Jt. Filler

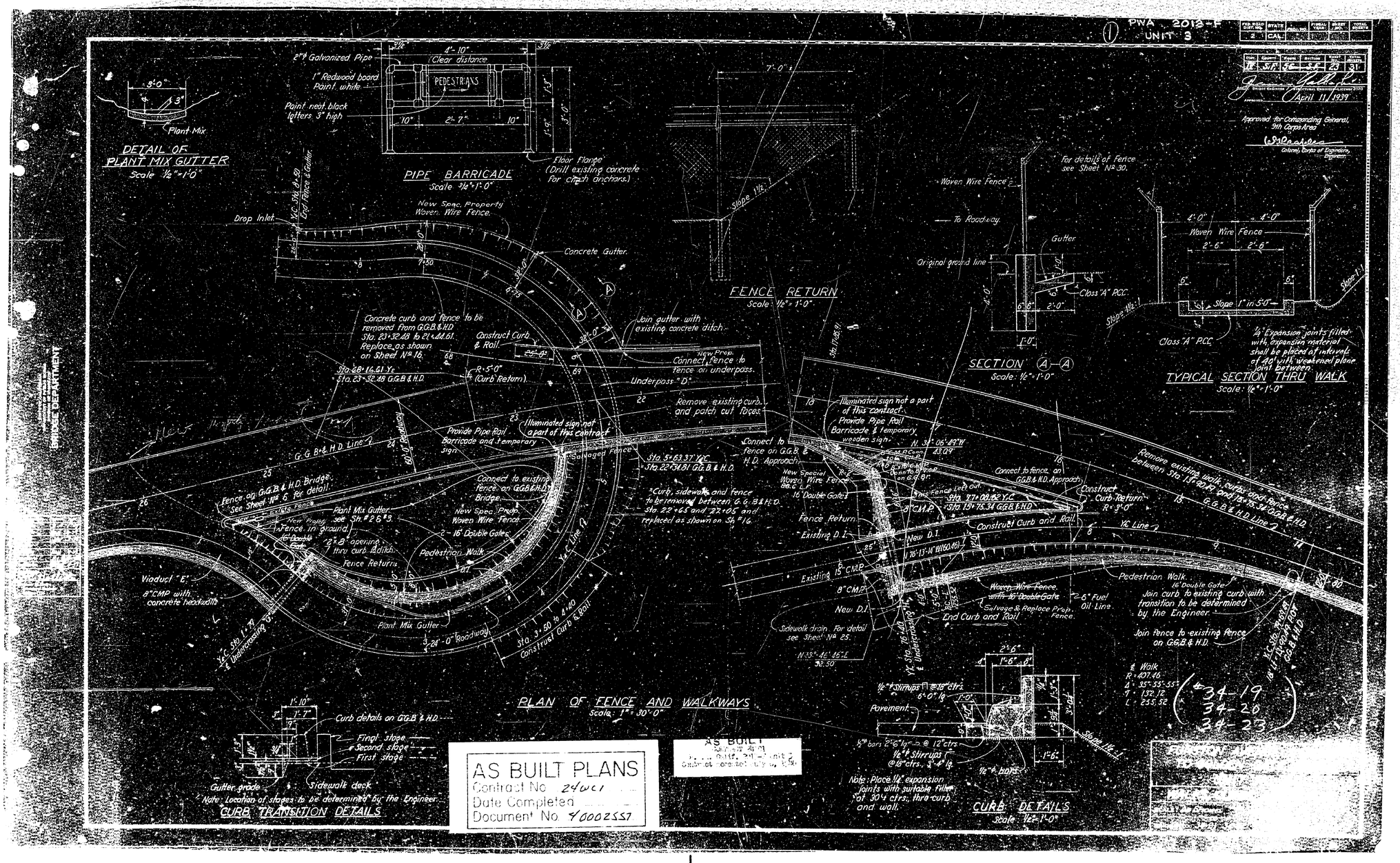
COPPER SEAL
Use Seal Only When Watertight Joint is Required.
Scale: 1½"=1'-0"

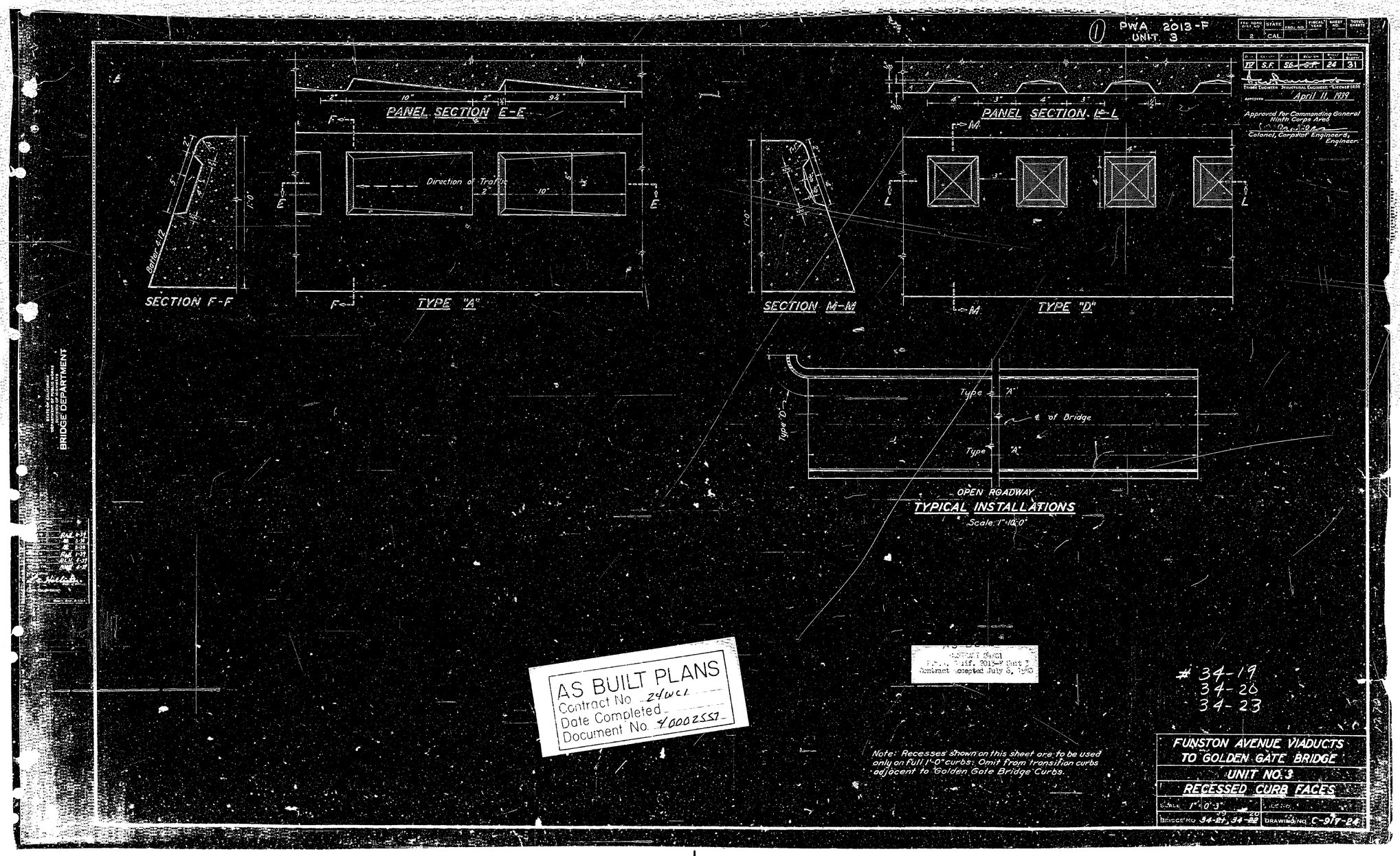
Sheet Copper #22 Stubs Gauge 4" Dia. 1½" 1½"

Scale: Full Size

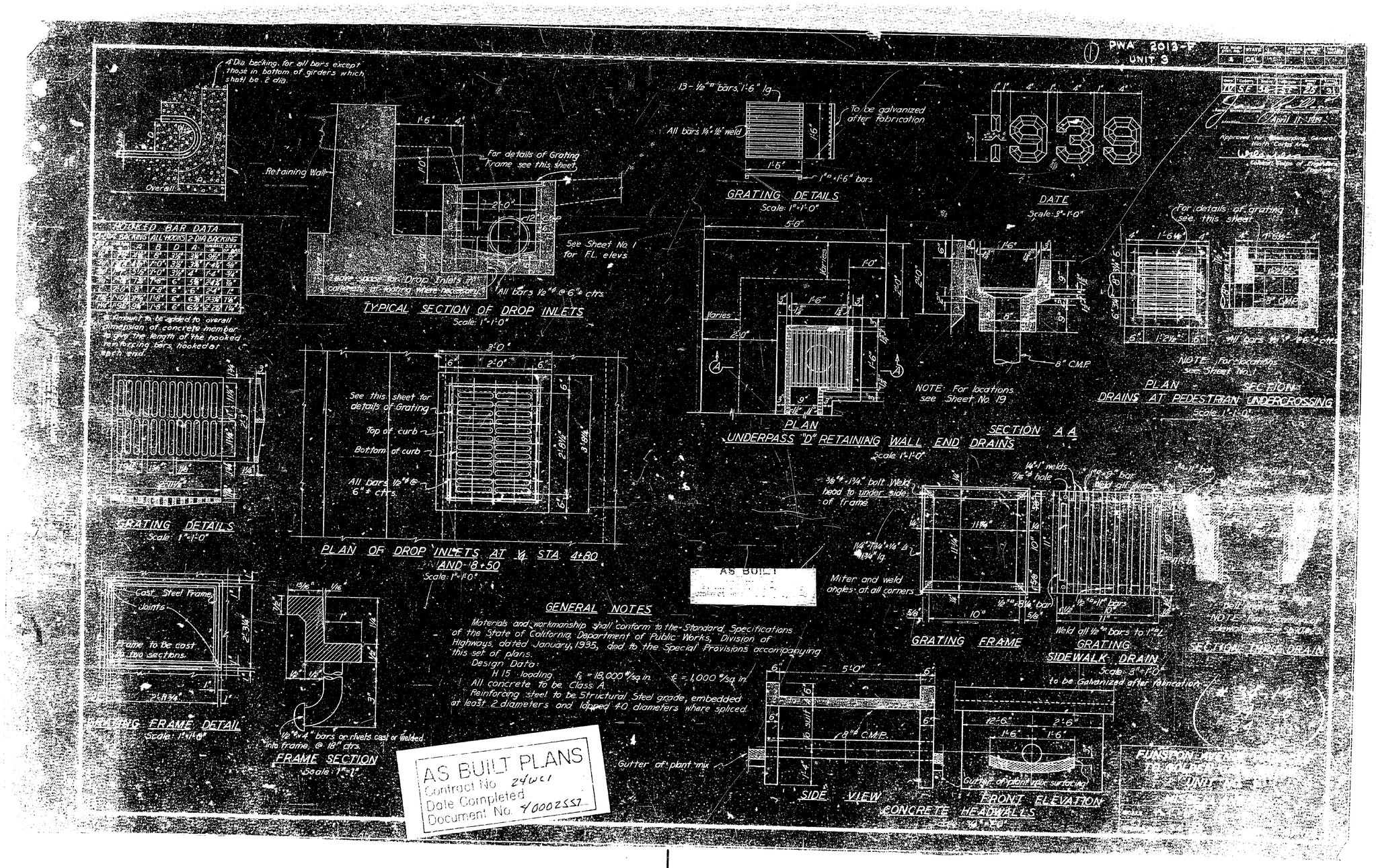
AS BUILT PLANS
Contract No. 24W1
Date Completed
Document No. 4/0002557

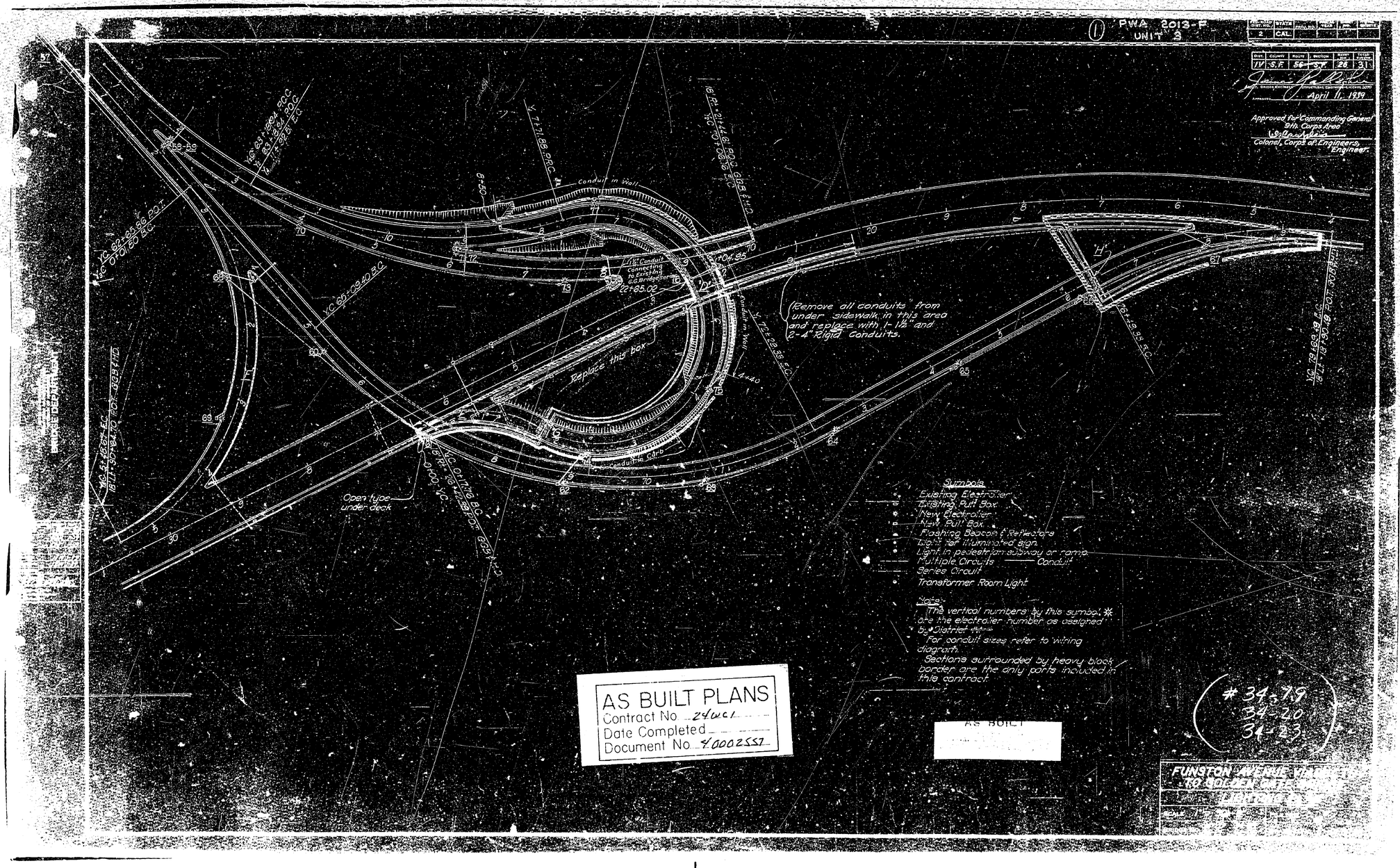

PWA 2018-F
UNIT 3
April 11, 1939
Approved for Commanding General 9th Corps Area
Colonel, Corps of Engineers Engineer
Special portable guard rail unit, to fit 30° bevel
Provide steps over existing wall
Temporary Pedestrian Walk during construction
Portable Guard Rail during 2nd stage to be left in place
Portable Guard Rail during First & Second Stages
Underpass & Retaining Wall "D"
Movable Guard Rail during First and Second Stages
Portable Guard Rail during First Stage
Portable Guard Rail to be left in place
High Viaduct Connection "E"
Portable Guard Rail during Second Stage
Detour for North bound traffic during construction
PLAN OF WALKWAYS & GUARD RAILS
Scale: 1" = 50'-0"
Portable Guard Rail to be left in place
Black Paint
White Paint
8"×8"×3'-0" post @ 5'-5" ctrs.
8"×8" brace
6 sacks of sand, total 12 per unit
2-3"×8"×2'-0" scabs
Flares as directed by Engineer
2-3"×8"×3'-7½"
2"×10"×12'-0"
2-4"
3"×8"×12'-0"
2- sacks of sand
3"×8"×2'-0" scabs
5/8"ø bolt, countersunk
3"×8"×3'-7½"
5'-5"
12'-0"
END ELEVATION
FRONT ELEVATION
PORTABLE GUARD RAILS
Scale 3/4" = 1'-0"
NOTES:
Portable & Movable Guard Rails to be placed as directed by the Resident Engineer to allow for maximum clearance of traffic.
Sacks of sand on Guard Rails to be weighted as directed by the Resident Engineer.
Paint whole face of rail of both Portable and Movable Guard Rails with alternate stripes of black and white paint.
Guard rails and walkways may be constructed of used lumber in good condition.
Used cement sacks, or equal, in good condition shall be used for sand bags.
Paint whole front face of rail as shown for Portable Guard Rail
44'-0"
6 spa @ 6'-0" = 36'-0"
3"×8" Rail
8"×8"×3'-0" Post
Chip holes in existing concrete for expansion shields @ 3'-0" ctrs.
3/4"ø bolts
5/8"ø bolts
First Stage: 3/4"ø machine bolts with expansion shields @ 3'-0" ctrs.
Second Stage: 3/4"ø machine bolts imbedded in concrete @ 3'-0" ctrs.
5/8"ø bolts
Countersunk
8"×10" wheelguard
Construction Joint
During first stage, imbed 3/4"ø machine bolts in fresh concrete @ 3'-0" ctrs.
SECTION A-A FIRST STAGE
SECTION A-A SECOND STAGE
FRONT ELEVATION
MOVABLE GUARD RAIL
Scale 3/4" = 1'-0"
5'-0"
4"×4" posts on 6'-0" ctrs.
2" flooring
Flares as directed by the Engineer
8"×10" wheelguard
5/8"ø bolt, countersunk
2"×4" blocks
2-2"×12" floorbeams at each post
TYPICAL SECTION OF WALKWAY
Scale 3/4" = 1'-0"
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557
AS BUILT
CONTRACT 24WC1
P. W. A. Calif. 2018-F Unit 3
Contract accepted July 6, 1940
#34-19
34-20
34-23
WALKWAYS & GUARD RAILS
SCALE AS SHOWN


PWA 2012-F
UNIT 3
April 11, 1939
Approved for Commanding General, 9th Corps Area
Colonel, Corps of Engineers, Engineer
DETAIL OF PLANT MIX GUTTER
Scale 1/2" = 1'-0"
Plant Mix
PIPE BARRICADE
Scale 3/4" = 1'-0"
PEDESTRIANS
Clear distance
Floor flange (Drill existing concrete for cinch anchors.)
FENCE RETURN
Scale 1/2" = 1'-0"
SECTION A-A
Scale 1/2" = 1'-0"
TYPICAL SECTION THRU WALK
Scale 1/2" = 1'-0"
PLAN OF FENCE AND WALKWAYS
Scale 1" = 30'-0"
CURB TRANSITION DETAILS
CURB DETAILS
Scale 1/2" = 1'-0"
Note: Location of stages to be determined by the Engineer.
Note: Place 1/4" expansion joints with suitable filler at 30'-4 ctrs. thru curb and wall.
Pedestrian Walk
Construct Curb and Rail
Concrete Gutter
Drop Inlet
Viaduct "E"
Plant Mix Gutter
Fence Return
Pavement
Gutter grade
Sidewalk deck
Final stage
Second stage
First stage
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 4000255T
AS BUILT
34-19
34-20
34-23



PWA 2013-F
UNIT 3
PANEL SECTION E-E
PANEL SECTION L-L
SECTION F-F
TYPE "A"
SECTION M-M
TYPE "D"
Direction of Traffic
Batter 4:12
Type "A"
℄ of Bridge
Type "A"
Type "D"
OPEN ROADWAY
TYPICAL INSTALLATIONS
Scale: 1"=10'-0"
BRIDGE DEPARTMENT
April 11, 1939
Approved for Commanding General Ninth Corps Area
Colonel, Corps of Engineers, Engineer.
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557
Contract Accepted July 6, 1940
34-19
34-20
34-23
Note: Recesses shown on this sheet are to be used only on full 1'-0" curbs. Omit from transition curbs adjacent to Golden Gate Bridge Curbs.
FUNSTON AVENUE VIADUCTS TO GOLDEN GATE BRIDGE
UNIT NO. 3
RECESSED CURB FACES
SCALE 1"=0'-3"
BRIDGE NO. 34-21, 34-22
DRAWING NO. C-917-24


PWA 2013-F
UNIT 3
4" Dia. backing for all bars except those in bottom of girders which shall be 2 dia.
Overall
Retaining Wall
For details of Grating Frame see this sheet
See Sheet No. 1 for F.L. elevs.
All bars 1/2"ø @ 6"± ctrs.
TYPICAL SECTION OF DROP INLETS
Scale: 1"=1'-0"
13-1/2"ø bars 1'-6" lg.
All bars 1/4"x1/2" weld
To be galvanized after fabrication
1"ø x 1'-6" bars
GRATING DETAILS
Scale: 1"=1'-0"
DATE
Scale: 3"=1'-0"
For details of grating see this sheet
8" C.M.P.
NOTE: For locations see Sheet No. 19
PLAN
UNDERPASS "D" RETAINING WALL END DRAINS
Scale 1"=1'-0"
SECTION A A
PLAN
DRAINS AT PEDESTRIAN UNDERCROSSING
Scale 1"=1'-0"
See this sheet for details of Grating
Top of curb
Bottom of curb
All bars 1/2"ø @ 6"± ctrs.
PLAN OF DROP INLETS AT 1/4 STA. 4+80 AND 8+50
Scale: 1"=1'-0"
GRATING DETAILS
Scale: 1"=1'-0"
Cast Steel Frame
Joints
Frame to be cast in two sections
GRATING FRAME DETAIL
Scale: 1"=1'-0"
1/2"ø x 4" bars or rivets cast or welded into frame, @ 18" ctrs.
FRAME SECTION
Scale: 1"=1'-0"
GENERAL NOTES
Materials and workmanship shall conform to the Standard Specifications of the State of California, Department of Public Works, Division of Highways, dated January, 1935, and to the Special Provisions accompanying this set of plans.
Design Data:
H 15 loading f_s = 18,000 #/sq. in. f_c = 1,000 #/sq. in.
All concrete to be Class A.
Reinforcing steel to be Structural Steel grade, embedded at least 2 diameters and lapped 40 diameters where spliced.
AS BUILT
Miter and weld angles at all corners
GRATING FRAME
GRATING
SIDEWALK DRAIN
Scale 3"=1'-0"
to be Galvanized after fabrication
Weld all 1/2"ø bars to 1"ø L
SECTION THRU DRAIN
Gutter of plant mix
8"ø C.M.P.
SIDE VIEW
FRONT ELEVATION
CONCRETE HEADWALLS
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557



PWA 2013-F
UNIT 3
April 11, 1939
Approved for Commanding General
9th Corps Area
Colonel, Corps of Engineers,
Engineer.
Conduit in Wall
Replace this box
Remove all conduits from under sidewalk in this area and replace with 1-1½" and 2-4" Rigid Conduits.
Open type under deck
Symbols
Existing Electrolier
Existing Pull Box
New Electrolier
New Pull Box
Flashing Beacon & Reflectors
Light for illuminated sign
Light in pedestrian subway or ramp
Multiple Circuits
Conduit
Series Circuit
Transformer Room Light
Note:
The vertical numbers by this symbol are the electrolier number as assigned by District
For conduit sizes refer to wiring diagram.
Sections surrounded by heavy black border are the only parts included in this contract.
AS BUILT PLANS
Contract No. 24WC1
Date Completed
Document No. 40002557
AS BUILT
#34-79
34-20
34-23
FUNSTON AVENUE

P.W.A. 2613-F
UNIT 3

PULL BOX 'A' DETAIL
Scale 3/8"=1'-0"

SECTION (A)

Note:
Pull Box 'A' is similar to Pull Box 'B' except as noted. For details of barriers, ect. see Sheet 26

V or VC Conduit, or equal

TRANSFORMER ROOM LIGHT
Scale: 1/2"=1'-0"

Expansion Joint, Crouse Hinds, Type XJ, or equal

RIGID CONDUIT EXPANSION JOINT
Scale 1/2"=1'-0"

Approved for Commanding General
9th Corps Area
(Signed)
Colonel, Corps of Engineers
Engr.

Connect to every conduit

Pull Box Locate as directed by the Engineer

Greenfield Duct

Rigid A.C.

New 4" C (Rigid)

3" Drain

1-3" Conduit to Substation at South end of Viaduct 'B'
2-2" Conduits to Substation - spares
1-2" Conduit from Substation, 2300 volt Feeder

These conduits to be underground along the 'A' Line

4" Conduit for Multiple Circuit No. 6
2-Sign Light Circuits
1-Flasher Circuit

4" C. Semi-tangent

4" Rigid Conduit, Greenfield Duct or equal

2-4" Rigid

Sign Light

4" Conduit for Multiple Circuit No. 3

4 Conduits Encased in Concrete to Back of Roadway Curb

3" Amber Flashing Beacon & 2 Ruby Reflectors

4" Metal Conduit

Pull Box 'A'
4'x6'x24" Pull Box, Locate in wall as directed by Engineer

Oscillating Electrolier

Sign Light

Pull Box 'B'
Final location to be determined in the field. See Sheet 28 for detail.

3 Trans. Pole Conduits
1 Pigtail Conduit
} Existing

Transformer

4" Conduit for Multiple Circuit No. 5

4" Conduit for Multiple Circuit No. 1
2-Sign Light Circuits
1-Flasher Circuit
1-Undercrossing 11 Light Circuit
This conduit to leave transformer room at approximate level of existing ground

Circuit No. 1 Transformer Room Light

4 of Electrolier

Note:
To be level in both directions

Bring conduit out front of wall 3'-0" above top of footing

Pedestrian Undercrossing 6'-0" Min. 12.00

4 of Electrolier
Sta 4+18.4 (125), Sta. 11+24 (67)
11" Anchor Bolts (Furnished by others)

Expansion joint

2-1" Conduits

Transformer Vault

Conduit Routing TRANSFORMER ROOM

Contractor
P.W.A. Calif. 2613-F Unit 3
Contract accepted July 6, 1940

6"x12"x8" Surface mounted Pull Box @ ceiling Elev.

1" Conduit circuit #5 from Transformer Room above

1" Conduit - circuit #6 from under Dock along Pier

1" Conduit-Circuit #5 to Street Light on Dock

1" Conduit Stubbed out 1'-0" above Floor

4 INCH EXPANSION JOINT
Scale 3"=1'-0"

3" Conduits - Stubbed into Room 1'-0" below Ceiling

24"x24"x8" Pull Box - 4'-0" from Floor

3" Conduit to Substation from Pull Box

3" Conduit to Service from Pull Box 'A' (Spare Conduit)

1" Conduit fastened to wall above ground

1" Expansion Fitting through ceiling

Location of future Transformers

Note: Transformers and Switching equipment owned and maintained by P.G.& E.

Transformer Room Plan
Scale 1/4"=1'-0"

AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 400025527

UNIT 3

11	S.P.	36		6	36
17	S.P.	36		6	36

April 17, 1941

Approved for Commanding General
9th Corps Area
Colonel, Corps of Engineers
District Engineer

This location does not apply between Sta. 193+93 & 171+93

8"℄

3" Conduit (Transite)

1½" Conduit (Greenfield Duct)

1" Conduit (Greenfield Duct)

SECTION SHOWING PRESENT LOCATION OF CONDUITS
Scale 1"=1'-0"

This is location of conduits on north side of bridge, between pull boxes at Sta. 193+93 and 171+93 G.G.B.&H.D.

Note — 3" Transite to be replaced with 4" Rigid Conduit where 3" Transite is removed.

5-⅝" ϕ bars, str. 2'-3" long

⅝" ϕ bars, 2'-10" lg.

3'-6" 6" 9"

4" Steel Barrier
4-⅝" ϕ bars, ⌐⌐ 3'-0" lg.
⅝" ϕ bars, — 3'-9" lg.
⅝" ϕ bars, ⌐⌐ 3'-0" lg.
⅝" ϕ bars, — 2'-9" lg.
(Total 6)

3-½"x1¼" Straps welded to Anchor Plate

1" Anchor Plate

1" Barrier Plate

Copper Bearing Steel

2'-3"

2'-6"

3'-0"

Semi-Steel Frame, 1" thick

⅝" Bolts Diecur or equal

3" Drain Hole

PULL BOX DETAIL-B
Scale ½"=1'-0"

BARRIER DETAIL
Scale ½"=1'-0"

Concrete to be 6½" cut around lifting eye as shown

¾" ϕ steel lifting ⅝" eye, galvanized

¾" Rod

LIFTING EYE DETAILS FOR PULL BOX COVER
Scale 6"=1'-0"

CONTRACT 4001
P.W.A. Grade Separation
Contract completed Jan. 31, 1942

Y-BRIDGE CONNECTION
Scale 1"=20'

Conduit in 3" cover of Class "B" Concrete

Conduit

L.X.G. Line

Series Circuit

Sign Illumination circuit. Run along back of curb except at underpass. Run under curb at underpass.

Cut back existing ½" conduit to clear roof. When replaced in final position the conduit shall be under the curb.

Existing Electrolier

6'x10'x8'6" C.I. Pull Box (Type M)

Conduit

Conduit

Conduit

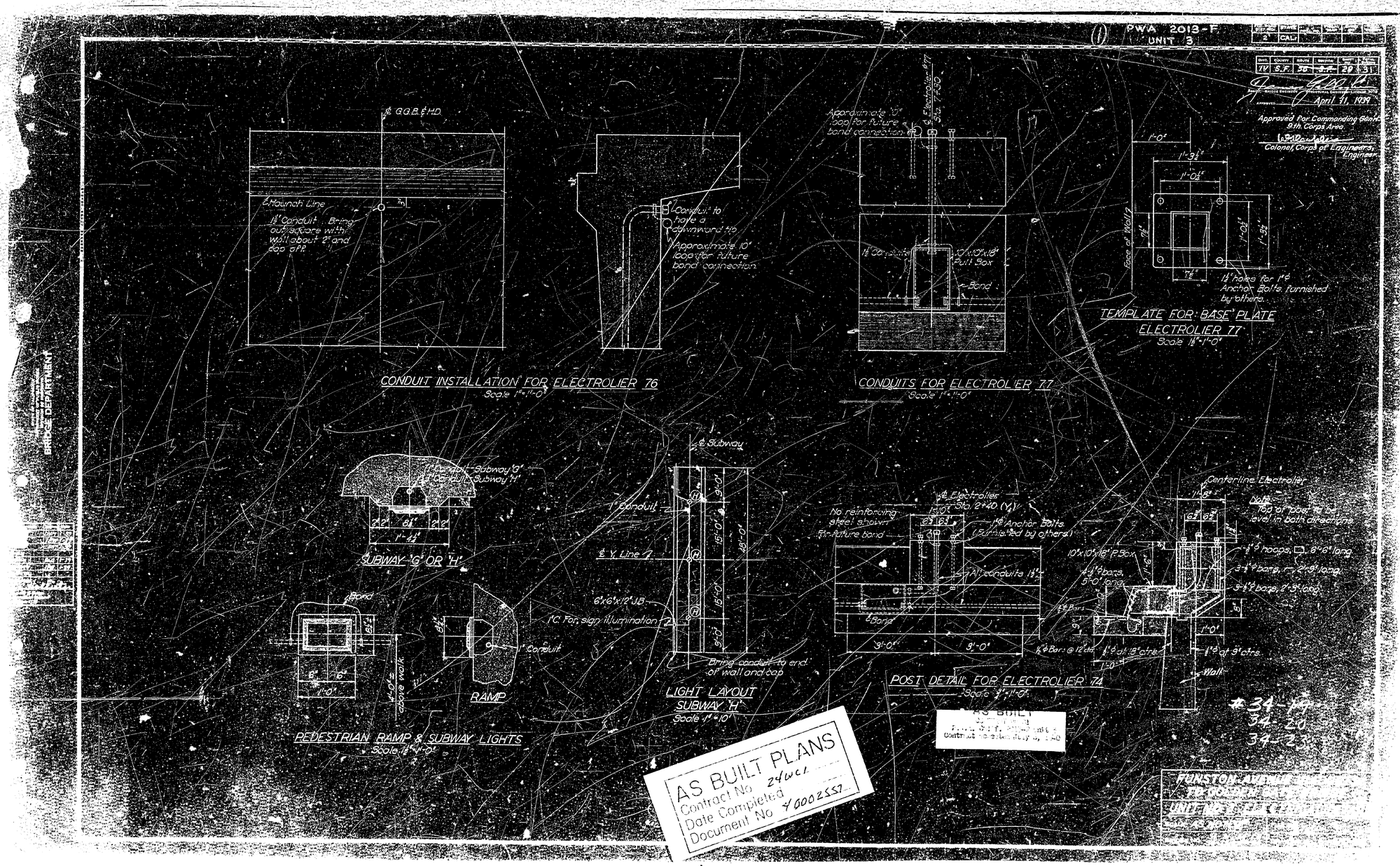
Existing Electrolier

Existing Electrolier

Reconstruct clear space for relocation of wind. Electrolier will be removed and reset by others.

CONDUIT CROSSING AT UNDERPASS

AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 400027557


PWA 2013-F
UNIT 3
April 11, 1939
Approved for Commanding Genl. 9th Corps Area
Colonel, Corps of Engineers, Engineer
CONDUIT INSTALLATION FOR ELECTROLIER 76
Scale 1"=1'-0"
CONDUITS FOR ELECTROLIER 77
Scale 1"=1'-0"
TEMPLATE FOR BASE PLATE ELECTROLIER 77
Scale 1½"=1'-0"
SUBWAY 'G' OR 'H'
PEDESTRIAN RAMP & SUBWAY LIGHTS
Scale 1½"=1'-0"
RAMP
LIGHT LAYOUT SUBWAY 'H'
Scale 1"=10'
POST DETAIL FOR ELECTROLIER 74
Scale ¾"=1'-0"
AS BUILT PLANS
Contract No 24WC1
Date Completed
Document No 40002557
#34-19
34-20
34-23