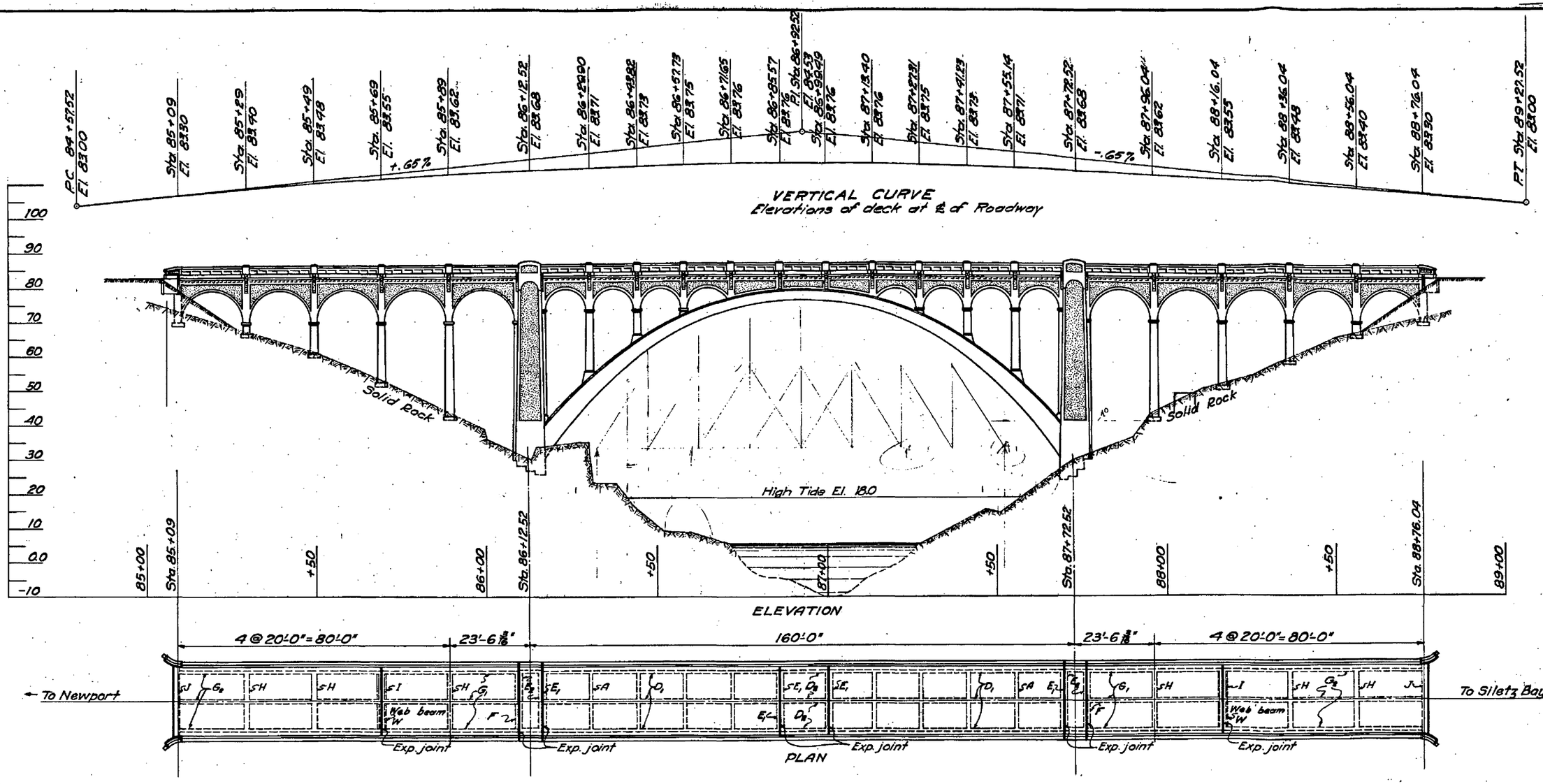
Revised 4-27-26



GENERAL NOTES:
All concrete shall be class "A" mix except precast rail members which shall be 1:2 mortar and the roadway slab which shall be class "D" mix.
All exposed corners shall have ¾" bevel unless noted or shown otherwise.
All exposed surfaces shall be finished with carborundum, except as noted.
All steel shall be deformed bars.
Bars to be placed 2" clear from nearest face of concrete unless noted or shown otherwise.
Footings shall be carried deeper than shown if necessary to secure firm foundation
Provide water stops at all construction joints.
Contractor shall check bending lists.
Material and workmanship shall conform to the specifications for bridges of the Oregon State Highway Commission edition of 1926.
Loading H 15 as per specifications

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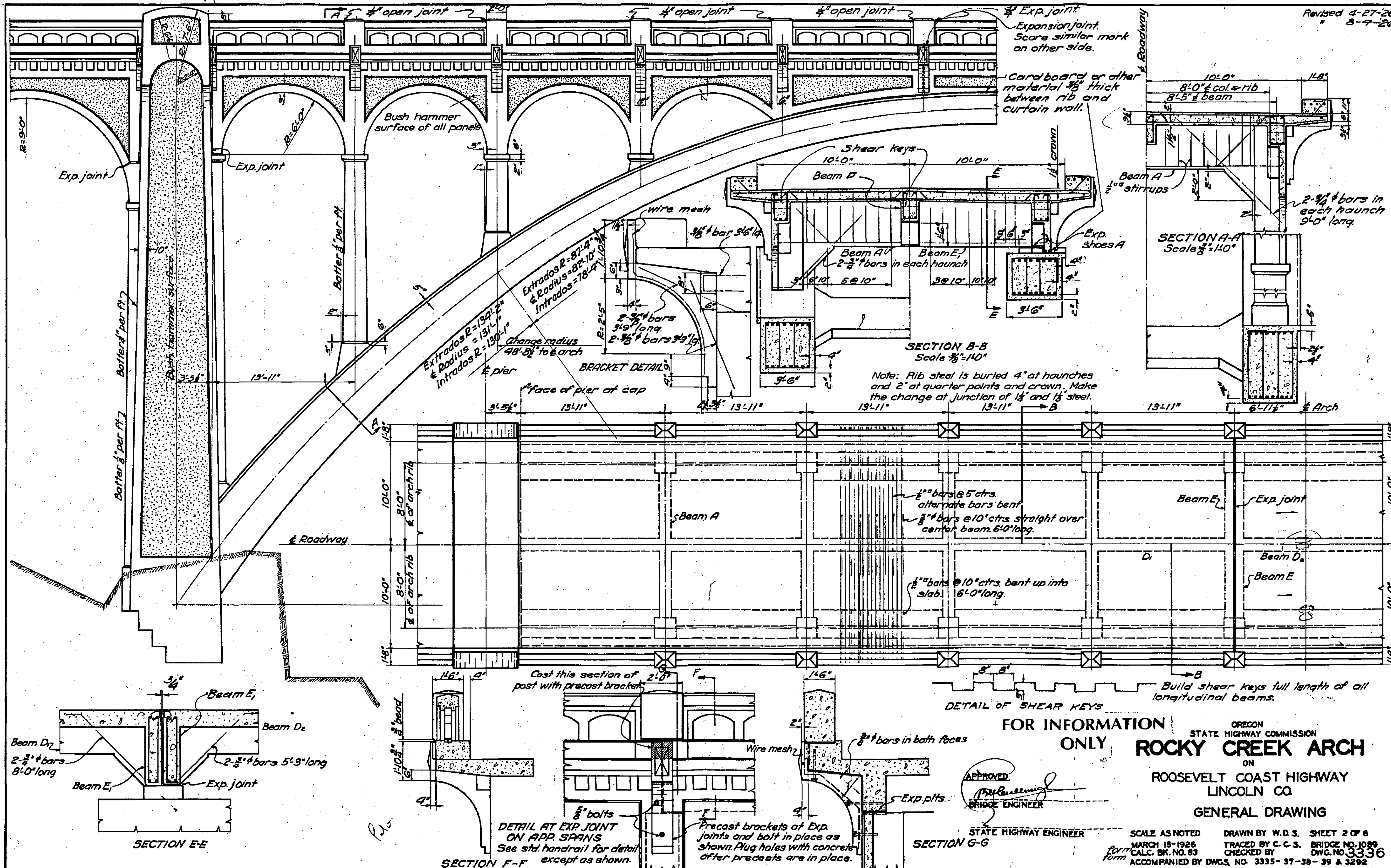
STATE HIGHWAY ENGINEER

OREGON
STATE HIGHWAY COMMISSION

ROCKY CREEK ARCH
ON
ROOSEVELT COAST HIGHWAY
LINCOLN CO.

PLAN & ELEVATION

SCALE 1"=15'-0" DRAWN BY W.D.S. SHEET 1 OF 6
MARCH 15-1926 TRACED BY C.C.S. BRIDGE NO. 1089
CALC. BK. NO. 83 CHECKED BY DWG. NO. 3335
ACCOMPANIED BY DWGS. NO. 3336-37-38-39 & 3292


Revised 4-27-'26
" 8-4-26
A
¼" open joint
¼" open joint
¼" open joint
¾" Exp. joint
Expansion joint. Score similar mark on other side.
Cardboard or other material ⅜" thick between rib and curtain wall.
¢ Roadway
R=9'-0"
Exp. joint
Exp. joint
R=6'-0"
Bush hammer surface of all panels
Batter ¼" per ft.
Batter ⅛" per ft.
Bush hammer surface
13'-11"
3'-5½"
Extrados R=134'-2"
¢ Radius = 131'-1"
Intrados R=130'-1"
Extrados R=87'-4"
¢ Radius=82'-10"
Intrados=78'-4"
Change radius 48'-8½" to ¢ arch
¢ pier
face of pier at cap
wire mesh
BRACKET DETAIL
Shear keys
Beam D
Beam A
Beam E1
2-¾"ϕ bars in each haunch
Exp. shoes A
SECTION B-B
Scale ⅜"=1'-0"
SECTION A-A
Scale ⅜"=1'-0"
10'-0"
8'-0" ¢ col. & rib
8'-5" ¢ beam
Beam A
½"ϕ stirrups
2-¾"ϕ bars in each haunch 9'-0" long.
Note: Rib steel is buried 4" at haunches and 2" at quarter points and crown. Make the change at junction of 1¼" and 1½" steel.
¢ Arch
¢ Roadway
Beam A
½"ϕ bars @ 5" ctrs. alternate bars bent
⅜"ϕ bars @ 10" ctrs. straight over center beam. 6'-0" long.
½"ϕ bars @ 10" ctrs. bent up into slab. 6'-0" long.
Beam E1
Exp. joint
Beam D2
Beam E
DETAIL OF SHEAR KEYS
Build shear keys full length of all longitudinal beams.
SECTION E-E
Beam E1
Beam D2
Beam D1
2-¾"ϕ bars 8'-0" long
2-¾"ϕ bars 5'-3" long
Exp. joint
SECTION F-F
Cast this section of post with precast bracket
DETAIL AT EXP. JOINT ON APP. SPANS
See std. handrail for detail except as shown.
⅝" bolts
Precast brackets at Exp. joints and bolt in place as shown. Plug holes with concrete after precasts are in place.
Wire mesh
⅜"ϕ bars in both faces
Exp. plts.
SECTION G-G
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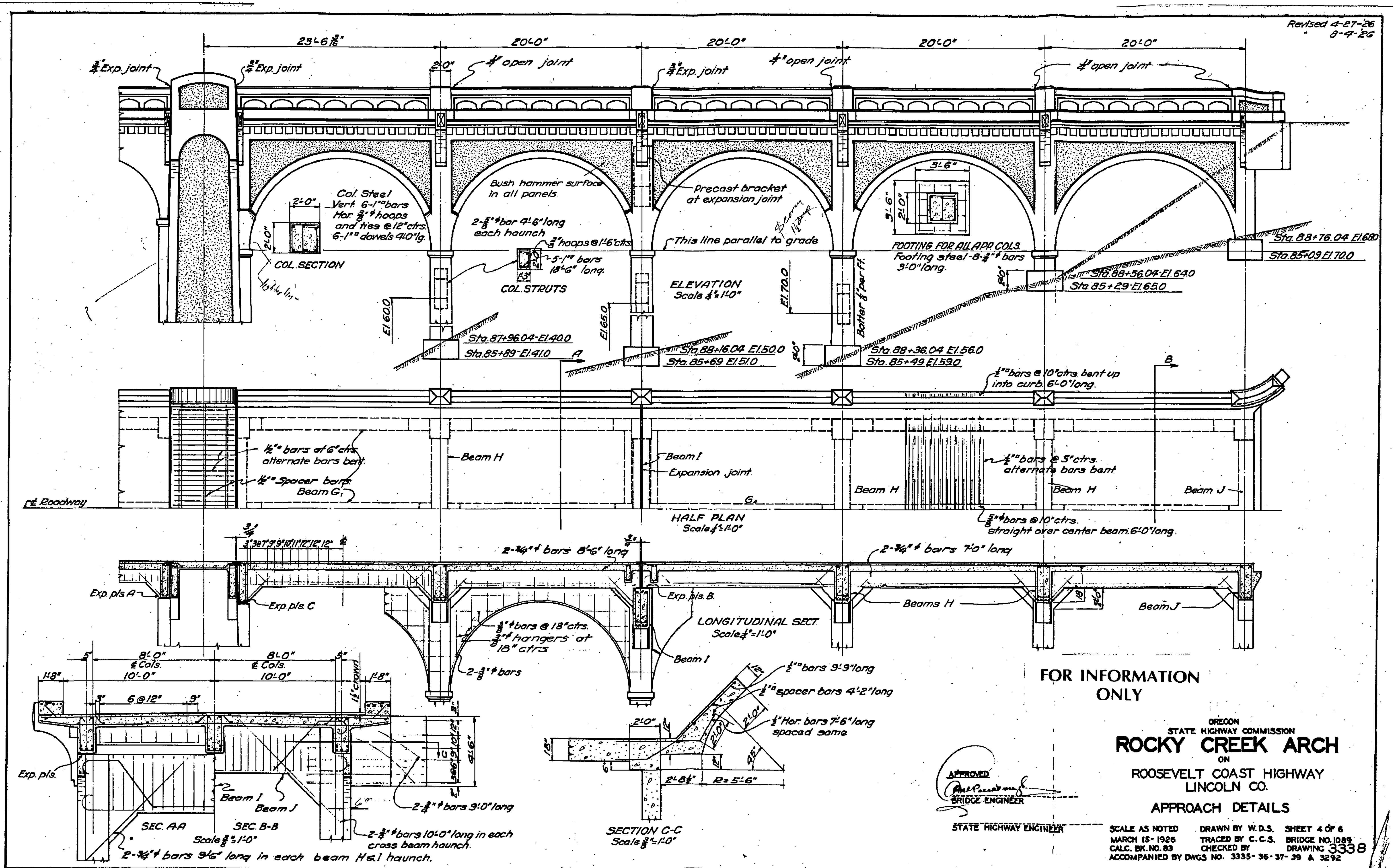
ON
ROOSEVELT COAST HIGHWAY
LINCOLN CO.
GENERAL DRAWING
APPROVED
BRIDGE ENGINEER
STATE HIGHWAY ENGINEER
SCALE AS NOTED
MARCH 15-1926
CALC. BK. NO. 83
DRAWN BY W. D. S.
TRACED BY C. C. S.
CHECKED BY
SHEET 2 OF 6
BRIDGE NO. 1089
DWG. NO. 3336
ACCOMPANIED BY DWGS. NO. 3335-37-38-39 & 3292


Revised 4-27-26
8-4-26
23'-6 3/16"
20'-0"
20'-0"
20'-0"
20'-0"
3/4" Exp. joint
3/4" Exp. joint
2'-0"
1/4" open joint
3/4" Exp. joint
1/4" open joint
1/4" open joint
Col. Steel
Vert. 6-1" bars
Hor. 3/8" hoops and ties @ 12" ctrs.
6-1" dowels 4'0" lg.
2'-0"
COL. SECTION
Bush hammer surface in all panels.
2-5/8" bar 4'-6" long each haunch
3/8" hoops @ 1'-6" ctrs.
5-1" bars 18'-6" long.
COL. STRUTS
Precast bracket at expansion joint
This line parallel to grade
ELEVATION
Scale 1/4" = 1'-0"
3'-6"
FOOTING FOR ALL APP. COLS.
Footing steel - 8-3/4" bars 3'-0" long.
Sta. 88+76.04 El. 68.0
Sta. 85+09 El. 70.0
Sta. 88+56.04 El. 64.0
Sta. 85+29 El. 65.0
El. 60.0
El. 65.0
El. 70.0
Batter 1/8" per ft.
Sta. 87+96.04 El. 40.0
Sta. 85+89 El. 41.0
Sta. 88+16.04 El. 50.0
Sta. 85+69 El. 51.0
Sta. 88+36.04 El. 56.0
Sta. 85+49 El. 59.0
A
B
1/2" bars @ 10" ctrs bent up into curb. 6'-0" long.
1/2" bars at 6" ctrs. alternate bars bent.
1/2" Spacer bars
Beam G1
Beam H
Beam I
Expansion joint
1/2" bars @ 3" ctrs. alternate bars bent.
Beam H
Beam H
Beam J
℄ Roadway
G2
HALF PLAN
Scale 1/4" = 1'-0"
5/8" bars @ 10" ctrs. straight over center beam 6'-0" long.
2-3/4" bars 8'-6" long
2-3/4" bars 7'-0" long
Exp. pls. A
Exp. pls. C
Exp. pls. B
LONGITUDINAL SECT.
Scale 1/4" = 1'-0"
Beams H
Beam J
3/8" bars @ 18" ctrs.
3/8" hangers at 18" ctrs.
2-3/8" bars
Beam I
8'-0" ℄ Cols.
10'-0"
8'-0" ℄ Cols.
10'-0"
1'-8"
1'-8"
6 @ 12"
1 1/2" crown
9'-6"
Exp. pls.
Beam I
Beam J
2-3/4" bars 9'-0" long
SEC. A-A
SEC. B-B
Scale 3/8" = 1'-0"
2-3/4" bars 10'-0" long in each cross beam haunch.
2-3/4" bars 9'-6" long in each beam H & I haunch.
1/2" bars 9'-9" long
1/2" spacer bars 4'-2" long
1/2" Hor. bars 7'-6" long spaced same
2'-0"
2'-8 1/2"
R = 5'-6"
SECTION C-C
Scale 3/8" = 1'-0"
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ROCKY CREEK ARCH
ON
ROOSEVELT COAST HIGHWAY
LINCOLN CO.
APPROACH DETAILS
SCALE AS NOTED
MARCH 15 - 1926
CALC. BK. NO. 83
DRAWN BY W.D.S.
TRACED BY C.C.S.
CHECKED BY
SHEET 4 OF 6
BRIDGE NO. 1089
DRAWING 3338
ACCOMPANIED BY DWGS NO. 3335-36-37-39 & 3292