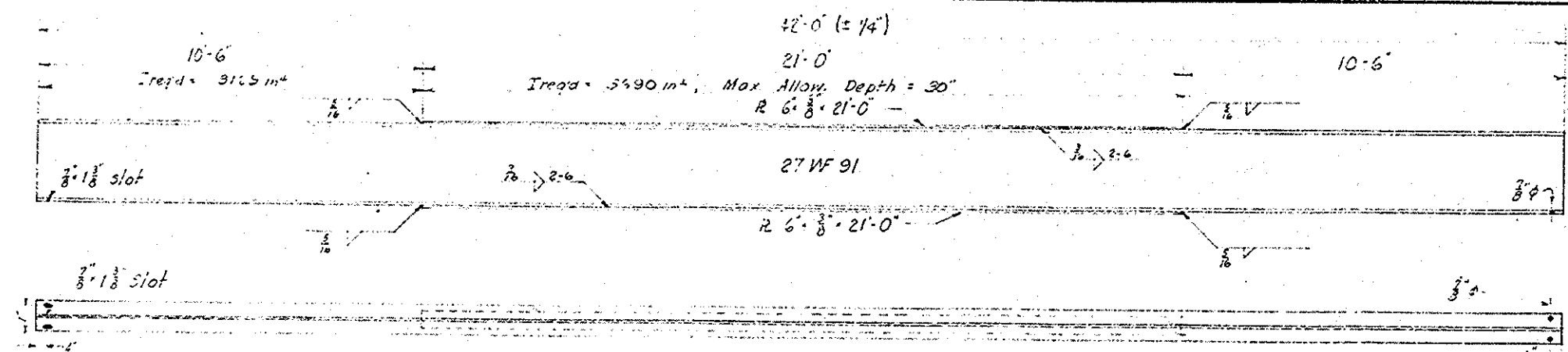
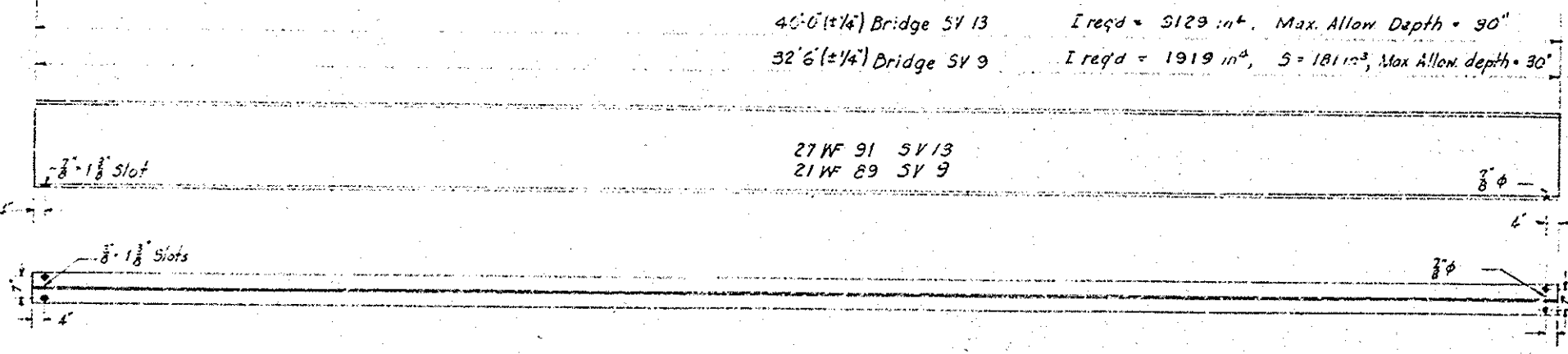
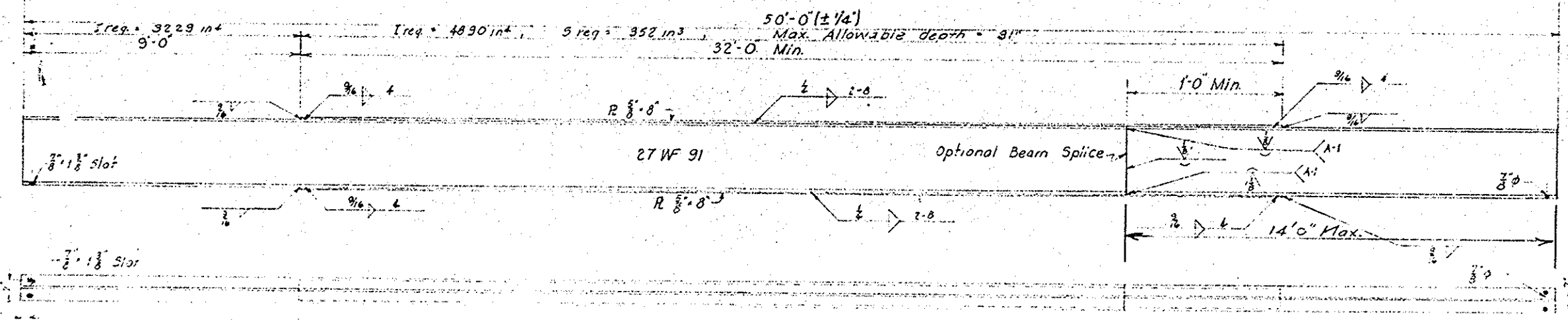




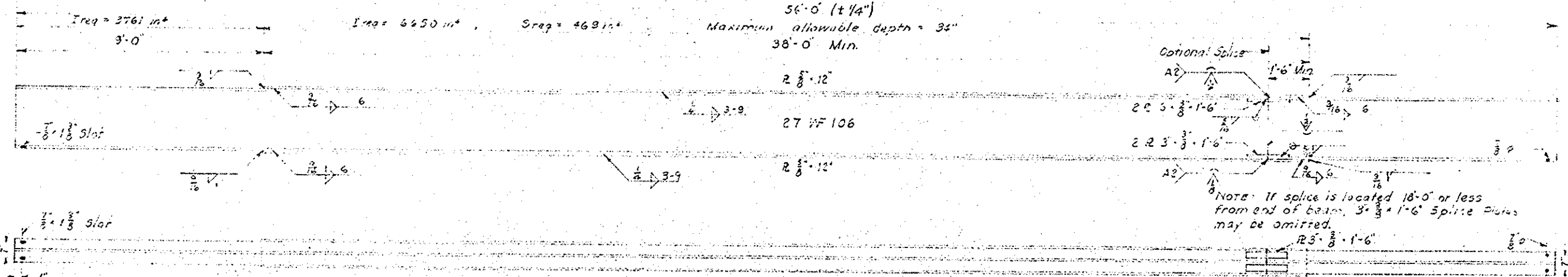
BRIDGE SV 11 (4 Req'd)  
BRIDGE SV 12 (4 Req'd)



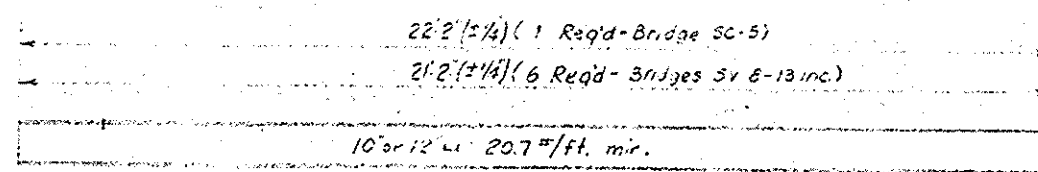
BRIDGE SV 9 (4 Req'd)  
BRIDGE SV 13 (4 Req'd)



BRIDGE SV 8 (4 Req'd)  
BRIDGE SV 10 (4 Req'd)



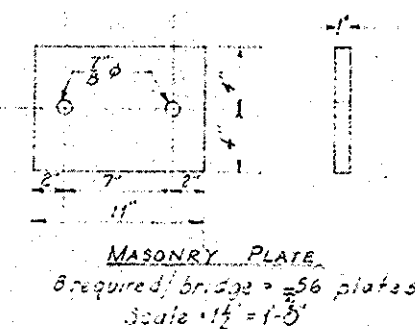
BRIDGE SC 5  
4 Req'd



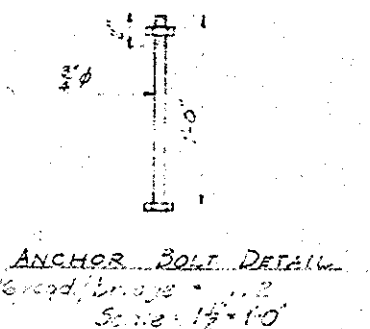
CHANNEL DIAPHRAM

Bridge #SC5, SV8,9,10,11,  
12, & 13  
Structural Steel Details  
Across Silverado, Ladd &  
Santiago Creeks  
Sheet 1 of 13  
All steel to be as shown  
unless noted.

BRIDGES SC 5 & SV 8, 9, 10, 11, 12, 13



MASONRY PLATE  
Required: 6" x 3" x 1/2" plates  
Scale: 1/2" = 1'-0"



ANCHOR BOLT DETAIL  
Required: 1" x 1'-0" bolts  
Scale: 1/2" = 1'-0"

GENERAL NOTES

Substitutions may be made for the beam and plate sizes indicated on this drawing, provided that the moments of inertia and section moduli of the sections furnished are equal to or greater than those specified on the details and the overall depths of sections are not greater than those noted.

Three sets of shop drawings shall be furnished for checking before beams are fabricated.

Steel shall conform to the requirements of A.S.T.M. Specification A7-42.

WELDING

All welding shall conform to the American Welding Society Specifications for Welded Highway and Railway Bridges, dated 1941.

All welds shall be made with a shielded arc process. Electrodes shall conform to the requirements of the joint AWS-ASTM Tentative Specifications for Iron & Steel Arc Welding Electrodes, ASTM Serial Designation A233-43T.

Lengths of fillet welds indicated on this drawing are effective lengths. The effective length of a fillet weld is the overall length less twice the size of the weld.

Beam splices shall be completed before any cover plate welding is done.

Cover plates shall be tack welded in place and the specified welds laid with a backstep in welding sequence in such a way that locked up stresses will be minimized. The welding sequence shall be indicated in the shop drawings.

PAINT

All steel except anchor bolts shall have one shop coat of red lead and oil. All loose scale and rust shall be removed by sand blasting before painting.

APPROVED  
A.A. BEARD  
SUPERINTENDENT OF HIGHWAYS

DATE

| REV. | DATE | REVISION | BY | APP'D |
|------|------|----------|----|-------|
|------|------|----------|----|-------|

ORANGE COUNTY, CALIFORNIA  
BRIDGES ACROSS SILVERADO, LADD,  
& SANTIAGO CREEKS  
STRUCTURAL STEEL DETAILS

DONALD R. WARREN CO.  
ENGINEERS  
LOS ANGELES SAN FRANCISCO  
LA 46-17  
JOS 100  
IS (13)