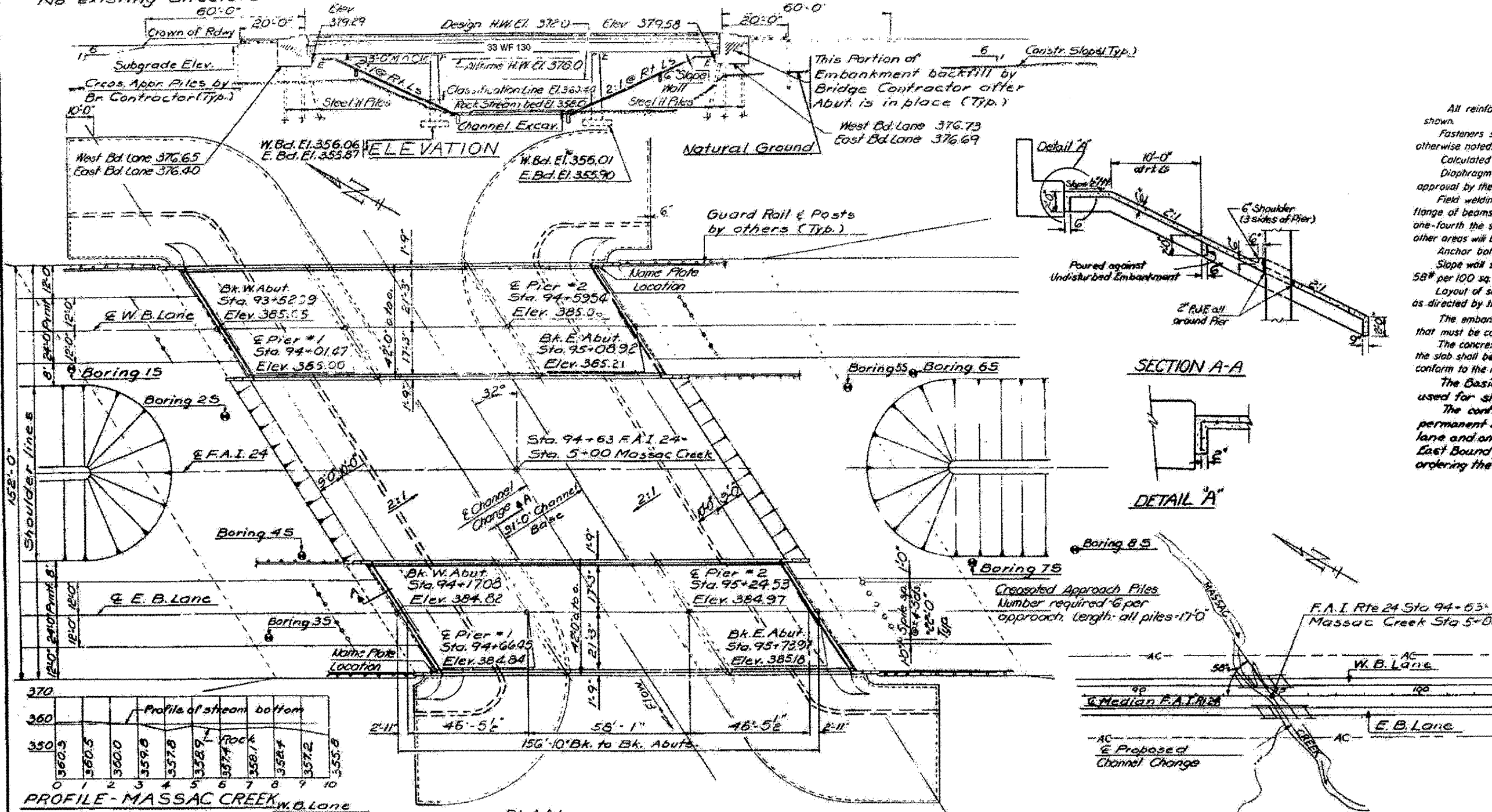


B.M. #7 - Elev. 385.55 Boat Spike in 15" Catalpa
222' Lt. of Sta. 96+08.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

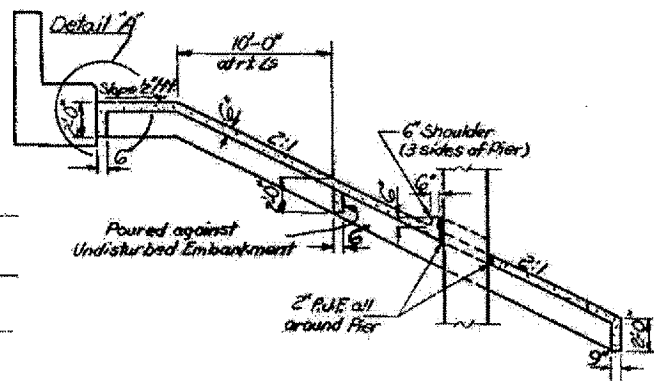
VARIOUS ROUTES
VARIOUS COUNTIES
D-9 BRIDGE PAINTING FY 06-1
SHEET 21 OF 48
CONTRACT 98941

No existing Structure.



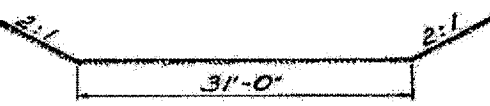
GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
- Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ "⁺; open holes $\frac{13}{16}$ "⁺, unless otherwise noted.
- Calculated weight of Structural Steel = 297,040
- Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.
- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- Anchor bolts shall be set before bolting diaphragms over supports.
- Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.
- Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
- The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
- The contractor shall drive one B5P36 test pile in a permanent location at the West Abutment-West Bound lane and one in a permanent location at the East Abutment-East Bound lane as directed by the engineer, before ordering the remainder of the piles.

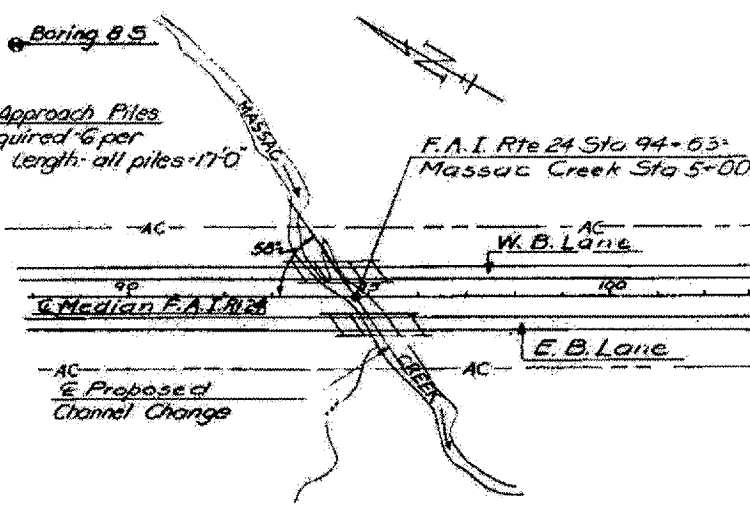


SECTION A-A

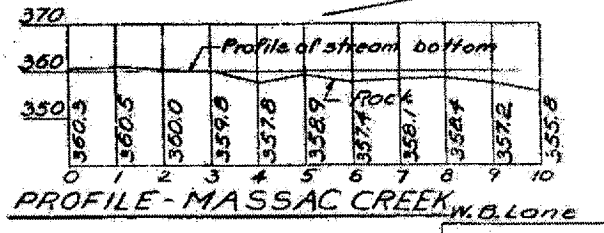
DETAIL A



CHANNEL SECTION



CHANNEL CHANGE SKETCH



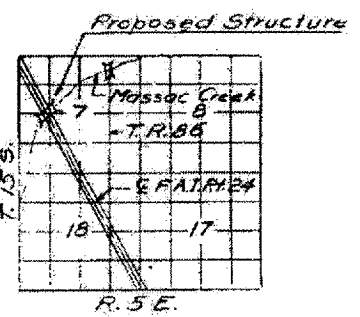
PLAN

WATERWAY INFORMATION

Drainage Area 13,330 acres.
Character: hilly, wooded, cultivated
Required Opening (50 years freq) 780 Sq. Ft.
Proposed Opening 785 Sq. Ft.
Q = 4550 cfs
Ordinary Water Elev. 360.10
Low Water Elev. 359.40

DESIGN STRESSES

f_c = 1200 p.s.i. Deck
 f_c = 1400 p.s.i. Sub. Curv. Par.
 f_c = 75 p.s.i. Ftgs.
 f_s = 20,000 p.s.i. Reinf.
 f_s = 20,000 p.s.i. Struct. (A-30)
 n = 10
& Deflection = $\frac{1}{800}$



LOCATION SKET

PROPOSED PROFILE F.A.I. RT. 24

DESIGNED	<i>[Signature]</i>	EXAMINED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>	PASSED	<i>[Signature]</i>
DRAWN	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>		

BRIDGES NO. 4 AND NO. 5
STRUCTURES 064-0023 064-0024
FOR INFORMATION ONLY
GENERAL PLAN & ELEVATION
PROJECT: I-24-1(00)31
F.A.I. RT. 24 OVER MASSAC CREEK
F.A.I. RT. 24 SECTION 64-2B-1
MASSAC COUNTY
STA. 94 + 6.300