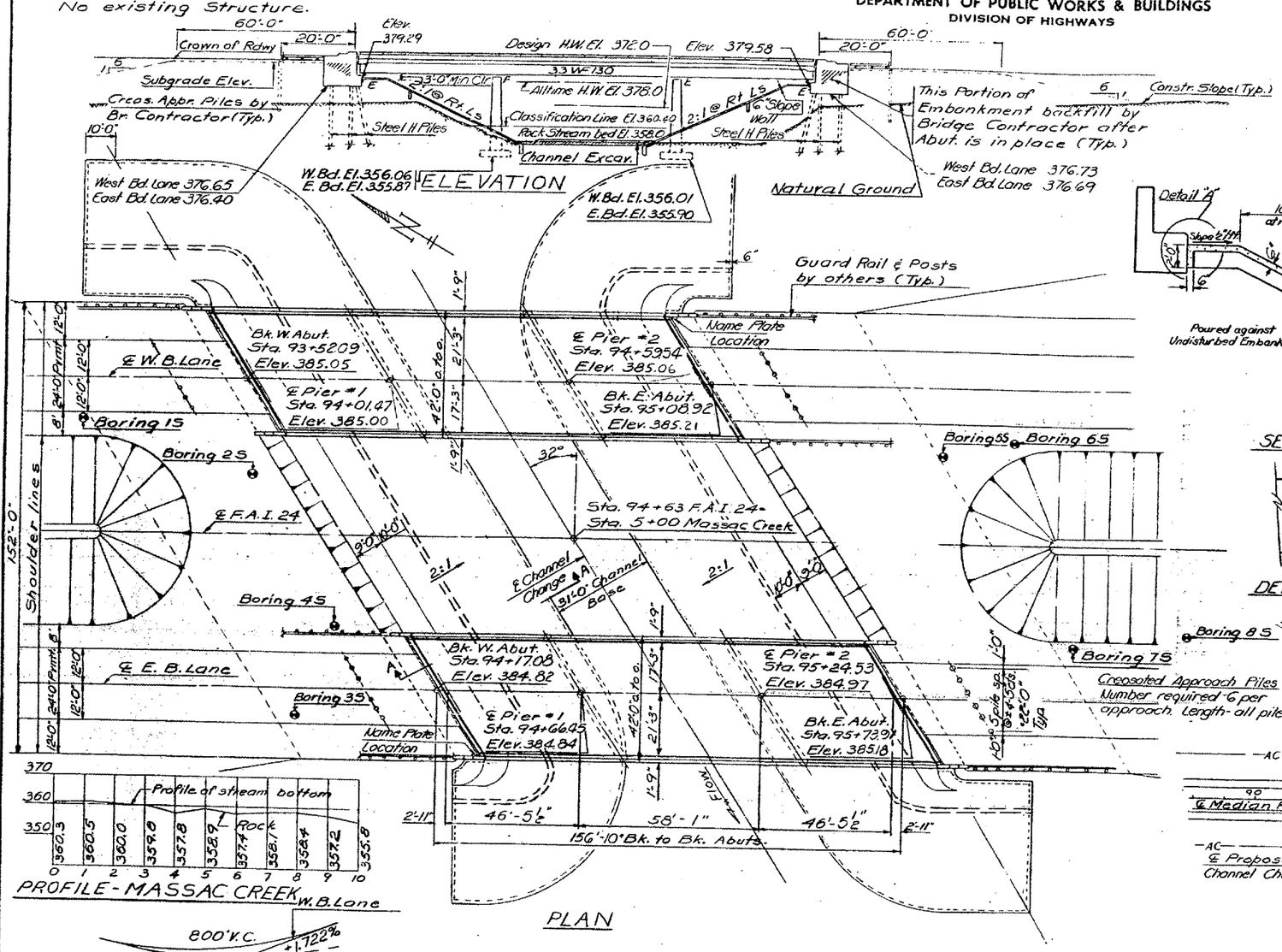
CONTRACT NO.: 98882
ROUTE: VARIOUS
COUNTY: VARIOUS
SECTION: D-9 CONTRACT MAINTENANCE 05-7
SHEET NO.: 30 OF 58

ROUTE NO.	SECTION	
F.A.I. F.A.I. 24	64-2B-1	M25320
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.

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

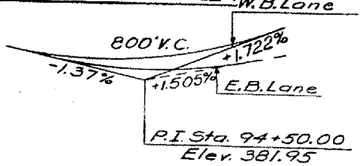
No existing Structure.

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



PLAN

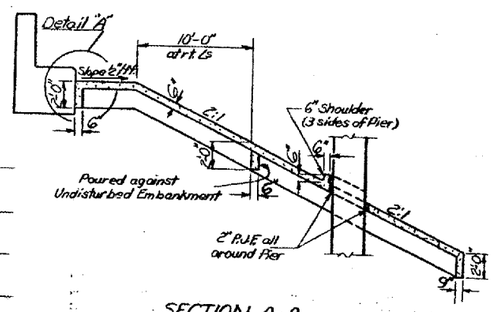
PROFILE - MASSAC CREEK



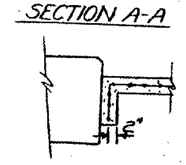
PROPOSED PROFILE F.A.I. RT. 24

DESIGNED	Dan Castleton
CHECKED	James M. Barker
DRAWN	DBB
CHECKED	B
EXAMINED	Dec 8 1966 Williams
PASSED	
APPROVED	

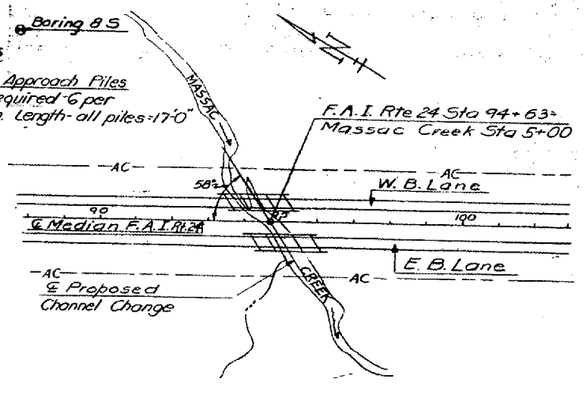
5-17-68 Rev. Ditch and Bar laps



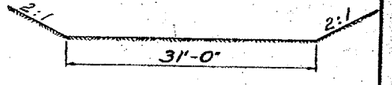
SECTION A-A



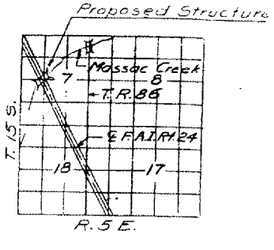
DETAIL "A"



CHANNEL CHANGE SKETCH



CHANNEL SECTION



LOCATION SKETCH

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Fasteners shall be high strength bolts. Bolts 3/4"ø; open holes 13/16"ø, unless otherwise noted.

Calculated weight of Structural Steel. = 297,040

Diaphragm connections may be adopted 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 BBP36 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.

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

fc = 1200 p.s.i. Deck
fc = 1400 p.s.i. Sub, Curb & Par.
Vc = 75 p.s.i. Ftgs.
fs = 20,000 p.s.i. Reinf.
fs = 20,000 p.s.i. Struct. (A-36)
n = 10
Deflection = ~~1/800~~

Loading: HS 20-44 & Alt.

CHANNEL CHANGE SKETCH

STATION 94+63.00
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. RT. 24 SEC. 64-2B-1
F.A. PROJ. I-24-1(84)
LOADING HS 20 & ALT.

NAME PLATE
(See Std. 2113)

GENERAL PLAN & ELEVATION

PROJECT: I-24-1(84) 31

FOR INFORMATION ONLY:

BRIDGE NO. 5 STRUCTURE 064-0023

BRIDGE NO. 6 STRUCTURE 064-0024