

ROUTE 1 CURVE DATA
 Δ = 41° 22' Rt.
 D = 3'
 R = 1909.66
 T = 721.1
 L = 1378.9
 E = 131.6

PLAN
 Scale = 1" = 20'

ESTIMATE OF QUANTITIES FOR TWO BRIDGES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
102	Borrow	C.Y.	47700
204	Sub-base of Crushed Rock Mod.	C.Y.	850
361-B	Bituminous Concrete Pavement (Mod)	Ton	390
318	Fir Linulion for Bridge Floors (Supp. Agree.)	sq. ft.	0
401-B	Concrete - Class 'B' (Mod)	C.Y.	2714
402	Reinforcing Steel	Lb.	442,910
403	Spiral Reinforcement 13B10 lbs.	Lb.	1
404-A	Structural Steel	Lb.	1,185,236
501	Furnishing Equipment for Dr. Piles	L.S.	1/6
222	Gravel Backfill	L.S.	0
504	Steel Piling	L.F.	22.00
556-C	Granite Bridge Curb	L.F.	1715
512	Bridge Railing	L.F.	1642
107	Structure Excavation	C.Y.	2268
407	Asphaltic-Asbestos Coating	S.Y.	144
526	Riprap for Bank Protection	C.Y.	2090
442	Removal of Present Superstructure	L.S.	1

For detail of guardrail treatment at approaches see standard sheet RS-57-7.
 * Rt. of Sta 464 + 25

GENERAL NOTES

- Materials and Construction shall conform to State of Vermont Department of Highways Standard Specifications for Highway and Bridge Construction, dated 1956.
- All design in accordance with AASHTO Standard Specifications for Highway Bridges, dated 1953. Loading is H20-S16-44 truck as modified for National System of Interstate Highways.
- Concrete shall attain a minimum strength of 2000 psi prior to the addition of any superimposed load.
- All concrete to be Class 'B' throughout.
- All welding to conform with the American Welding Society Standard Specifications for Welded Highway and Railway Bridges.
- All piles to be 10BP42 and driven to a minimum bearing capacity of 37 tons. Abutment piles are to be driven to the following minimum elev. unless otherwise directed by the engineer:
 Abut #1 SB elev. 371
 #1 NB elev. 389
 Abut #2 SB elev. 322
 #2 NB elev. 317
- Use self-lubricating plates for expansion devices on piers (standard SB-20-56)
- The beam seat elevations have been lowered 1/2 inches to allow for camber.
- Computations for layout information given are based on the arc definition for computing a horizontal curve.

REFERENCE DRAWINGS

- BORING LOGS, PROFILES, & SECTIONS
 ABUTMENT DETAILS
 PIER DETAILS
 REINFORCING BAR SCHEDULE
 STANDARD DRAWINGS
- BRIDGE SHEET 2
 " " 3
 " " 4
 " " 5
 SB-5A-56
 SB-A5-SQUEEZ-57 (MOD)
 SB-20-56
 SCB-30-56
 SH-2 of 2

1958 RECORD PLANS
 INCLUDED FOR REFERENCE PURPOSES ONLY

BRIDGE 6N#5

VERMONT
 STATE HIGHWAY DEPARTMENT
 TOWN OF BRATTLEBORO
 INTERSTATE ROUTE 1

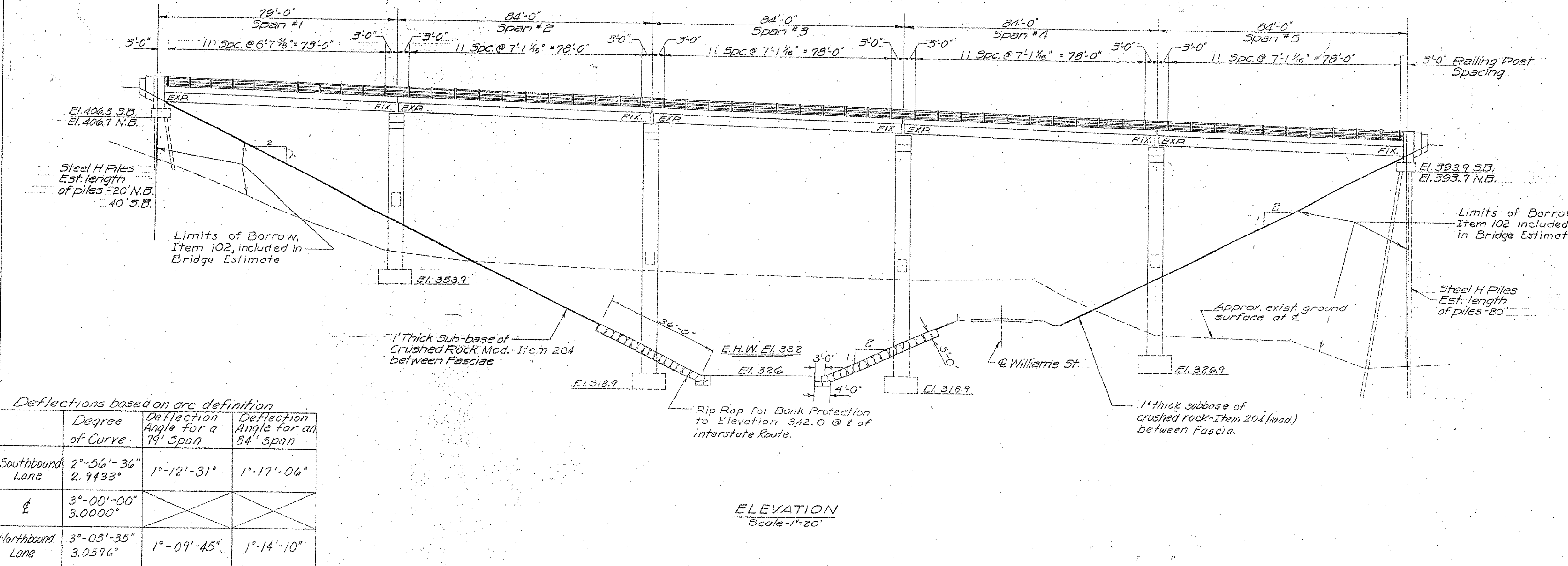
WHETSTONE BROOK BRIDGE

GENERAL PLAN
 AND ELEVATION

WM H. MCFARLAND
 ENGINEER
 BINGHAMTON, N.Y.

DESIGNED BY W.C. CHECKED L.H.S. DATE 8-15-57
 DRAWN BY L.M. 227 IN CHARGE H.G. COLE SCALE AS SHOWN

PROJECT NO 1- 91-1(2) SHEET 11 OF 15
 BRIDGE SHEET



Deflections based on arc definition

	Degree of Curve	Deflection Angle for a 79' span	Deflection Angle for an 84' span
Southbound Lane	2°-56'-36" 2.9433°	1°-12'-31"	1°-17'-06"
Centerline	3°-00'-00" 3.0000°		
Northbound Lane	3°-03'-35" 3.0596°	1°-09'-45"	1°-14'-10"

ELEVATION
 Scale = 1" = 20'