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STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF BRADFORD
COUNTY OF ORANGE

ROUTE NO: VT. 25 BRIDGE NO: 5

PROJECT LOCATION: ON VT. RTE. 25, 2.1 MILES NORTH OF THE
JUNCTION OF VT. RTE. 25 AND VT. RTE. 25 B.

PROJECT DESCRIPTION: REMOVAL OF EXISTING SUPERSTRUCTURE,
CONSTRUCTION OF A NEW PLATE GIRDER BRIDGE ON EXISTING
SUBSTRUCTURE, REPAIR OF CONCRETE IN ABUTMENTS AND
PIER, AND NECESSARY APPROACH WORK.

LENGTH OF STRUCTURE: 207.34 FEET
LENGTH OF PARTICIPATION ROADWAY: 372.66 FEET
LENGTH OF NON-PARTICIPATION ROADWAY: 0.00 FEET
LENGTH OF PROJECT: 600.00 FEET
LENGTH OF R.Q.W. PROJECT: 600.00 FEET

TRAFFIC DATA

1920 ADT = 2120
1930 DHV = 295 D = 56% (WB)
1940 ADT = 2570 T = 10% (DHV)
1940 DHV = 365

DESIGN SPEED = 40 MPH

HYDRAULIC DATA

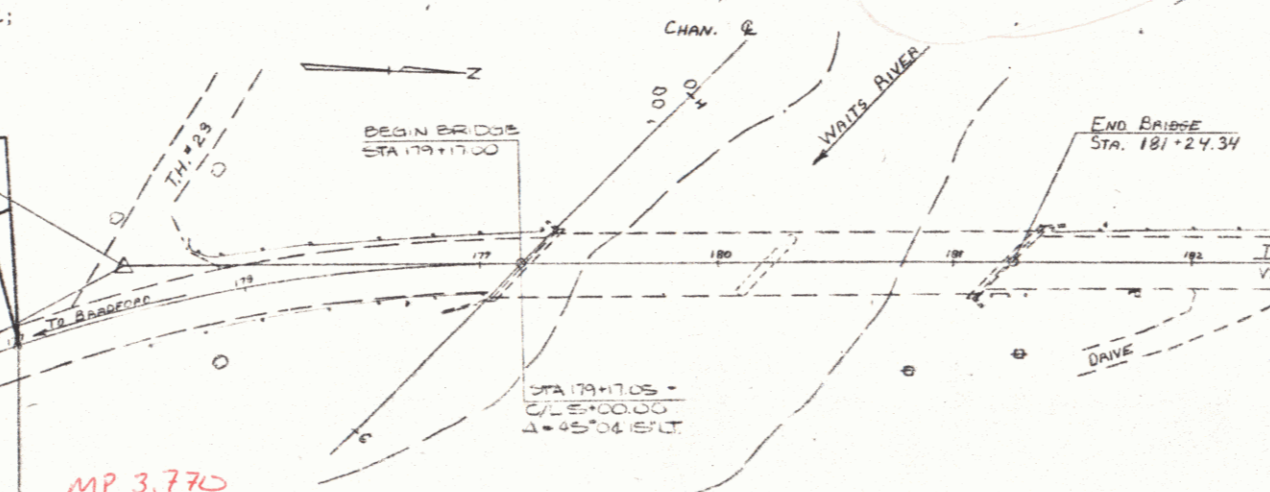
DRAINAGE AREA = 121.85 SQ. MI.
Q₁₀ = 6500 CFS; HW ELEV. = 517.6;
VELOCITY = 10.2 FPS
Q₁₅ = 9000 CFS; HW ELEV. = 518.7;
VELOCITY = 11.4 FPS
Q₂₀ = 11,000 CFS; HW ELEV. = 519.7;
VELOCITY = 12.3 FPS
Q₁₀₀ = 14,000 CFS; HW ELEV. = 521.2;
VELOCITY = 13.5 FPS
TAILWATER ELEV. @ Q₁₀₀ = 519.3

CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- CONTROL OF ACCESS
- PROPERTY LINE
- ROW TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

BEGIN R.O.W. PROJECT
BRF 031-1(5)S STA. 177+00

PI 177+54.45
177+48.10
Δ = 28° AT



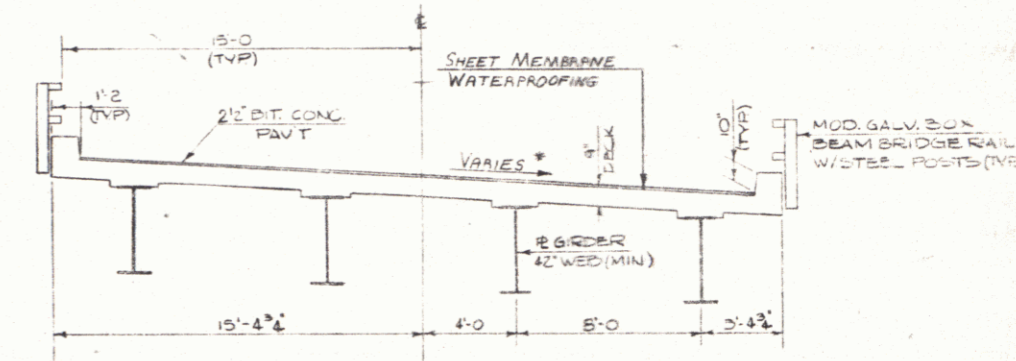
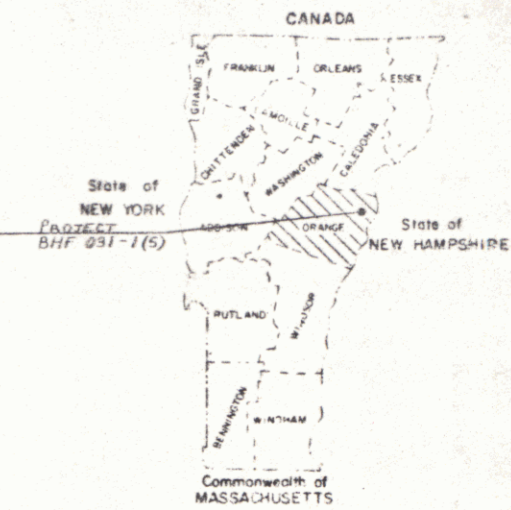
PLAN

SCALE IN FEET



LOCATION MAP

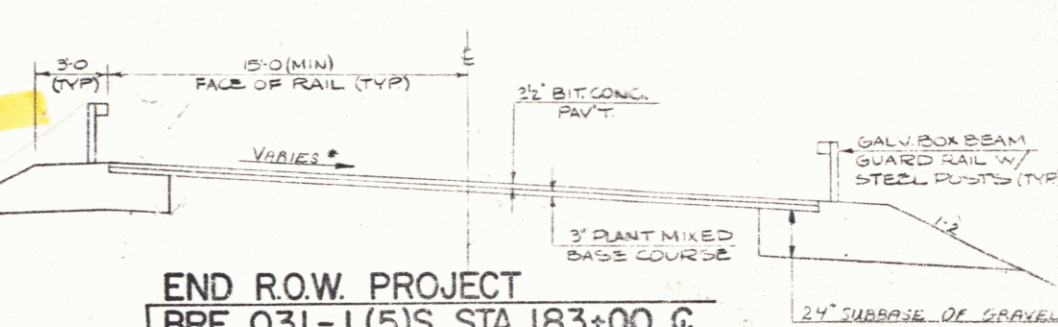
(TRACED FROM COUNTY MAP)



TYPICAL BRIDGE SECTION

SCALE: 1/4" = 1'-0"

SEE SUPERELEVATION DIAGRAM ON SHEET



END R.O.W. PROJECT

BRF 031-1(5)S STA. 183+00

TYPICAL ROADWAY SECTION

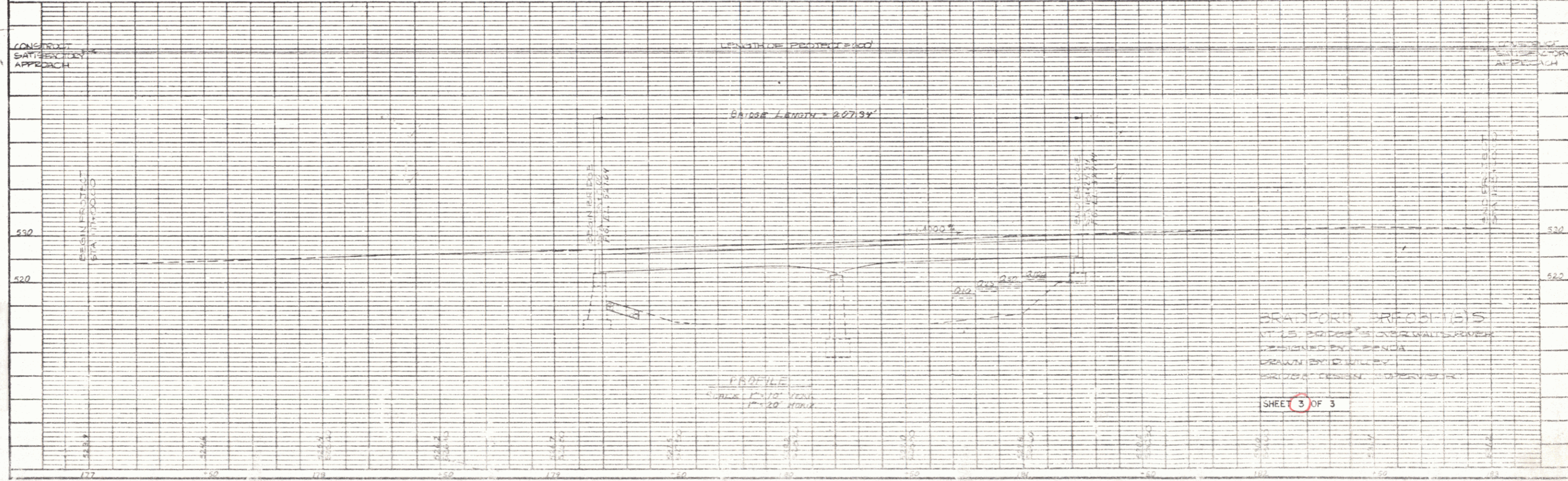
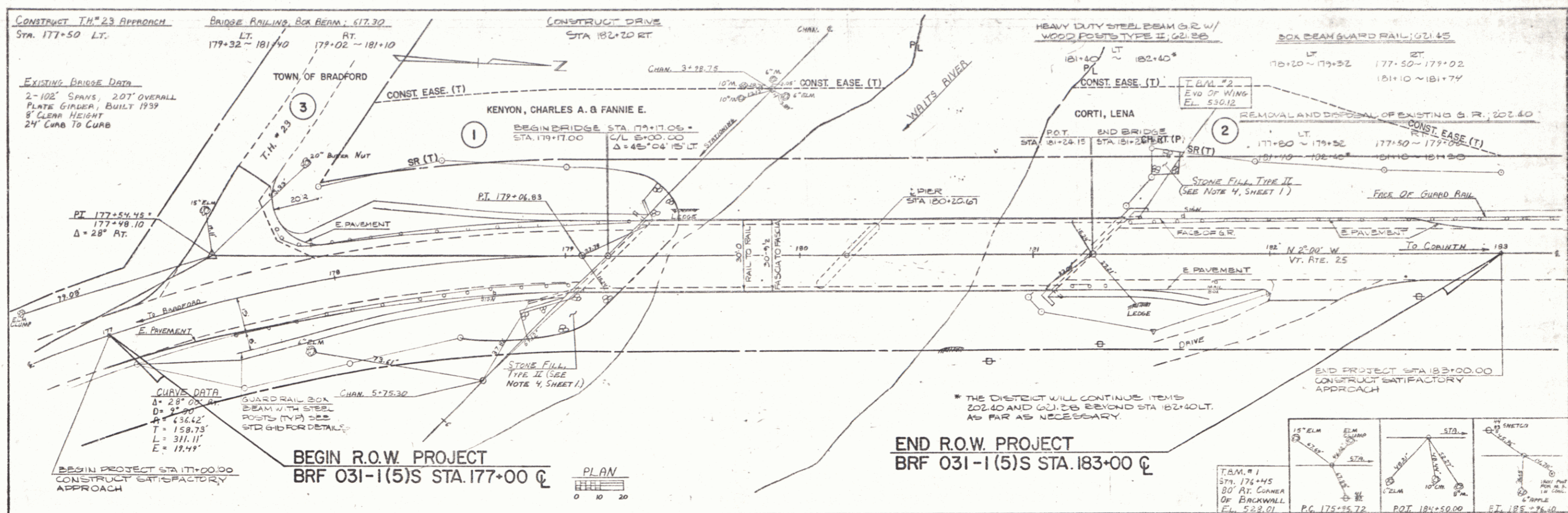
SCALE: 1/4" = 1'-0"

PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN

APPROVED BY USER OF THE STATE TRANSPORTATION BOARD
DATE OCT 7 1981
DIR. OF ENGINEERING AND CONSTRUCTION

APPROVED DATE 10-7-81
CHIEF, PROPERTY ADMINISTRATION

PROJECT BRADFORD # BRF 031-1(5)S
SHEET 1 OF 3



| | |
|------------|-----------------|
| DATE | 11/22 |
| BY | J. J. JENSEN |
| CHECKED BY | D. WILLEY |
| SCALE | AS SHOWN |
| PROJECT | BRADFORD BRIDGE |
| SHEET | 3 OF 3 |

| | |
|------------|-----------------|
| DATE | 11/22 |
| BY | J. J. JENSEN |
| CHECKED BY | D. WILLEY |
| SCALE | AS SHOWN |
| PROJECT | BRADFORD BRIDGE |
| SHEET | 3 OF 3 |

PLATE 1, PLAN/PROFILE