## Appendix A

GORDON R. WHITTUM, PORTFOLIO OF BRIDGE DESIGNS FOR THE NEW HAMPSHIRE STATE HIGHWAY DEPARTMENT, 1934-1937

#### APPENDIX A

# Gordon R. Whittum, Portfolio of Bridge Designs for the New Hampshire State Highway Department, 1934-1937

### A Note on How This List Was Compiled

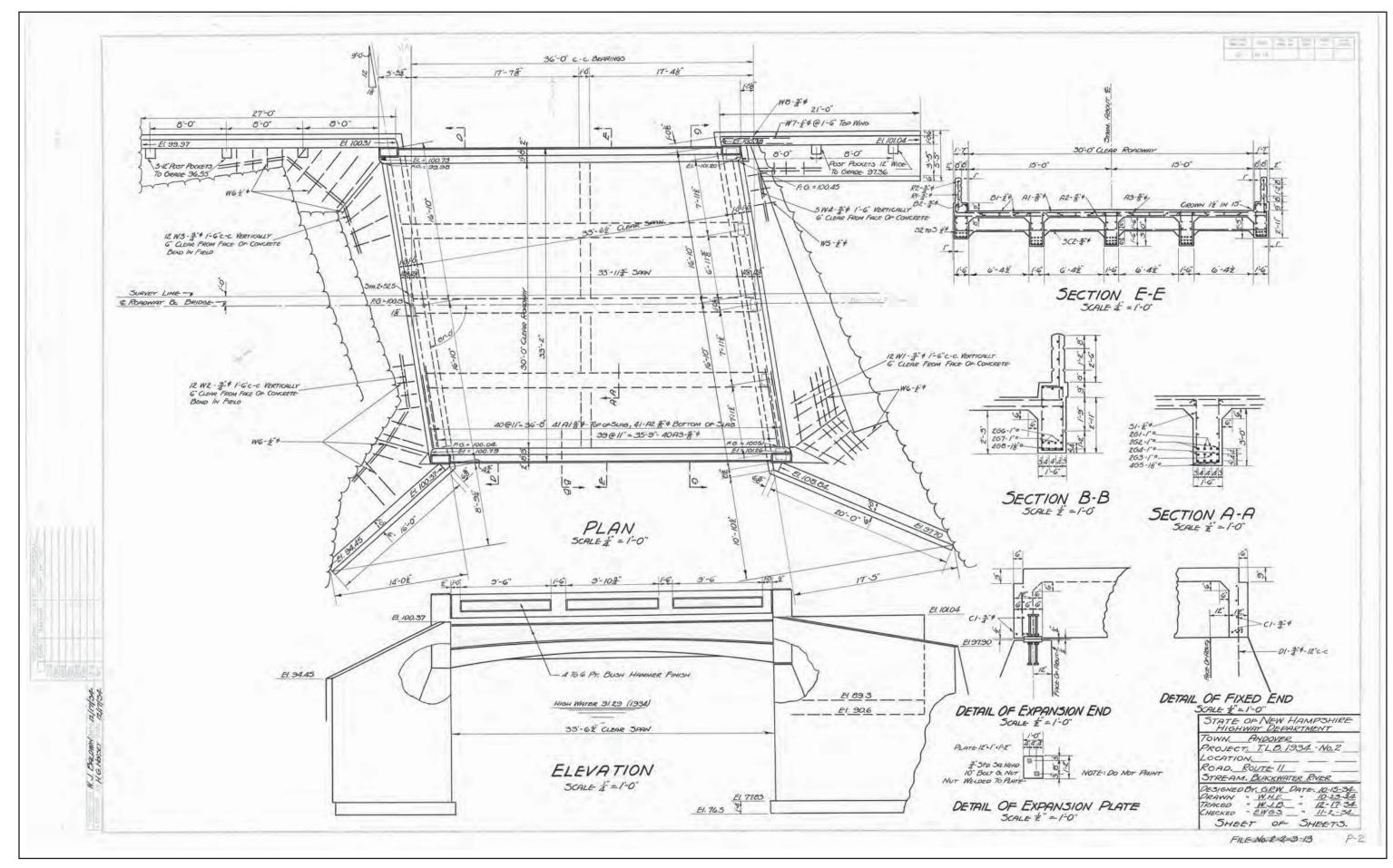
The following table was compiled by review of New Hampshire Department of Transportation (NHDOT) bridge plan files at the main office in Concord. Unless otherwise noted, Gordon R. Whittum is attributed as the principal designer based on his initials entered in the "designed by" block of the plans. This list is believed to represent a majority of the projects designed by Whittum while working for the New Hampshire State Highway Department from 1934 to 1937, but it is not believed to be a comprehensive list. NHDOT retains plans for bridges that continue in service but does not always retain plans for bridges that are replaced. Plans for replaced bridges are typically sent to the state archives for storage. Stored plans were not readily accessible and may have been disposed of due to retention schedules.

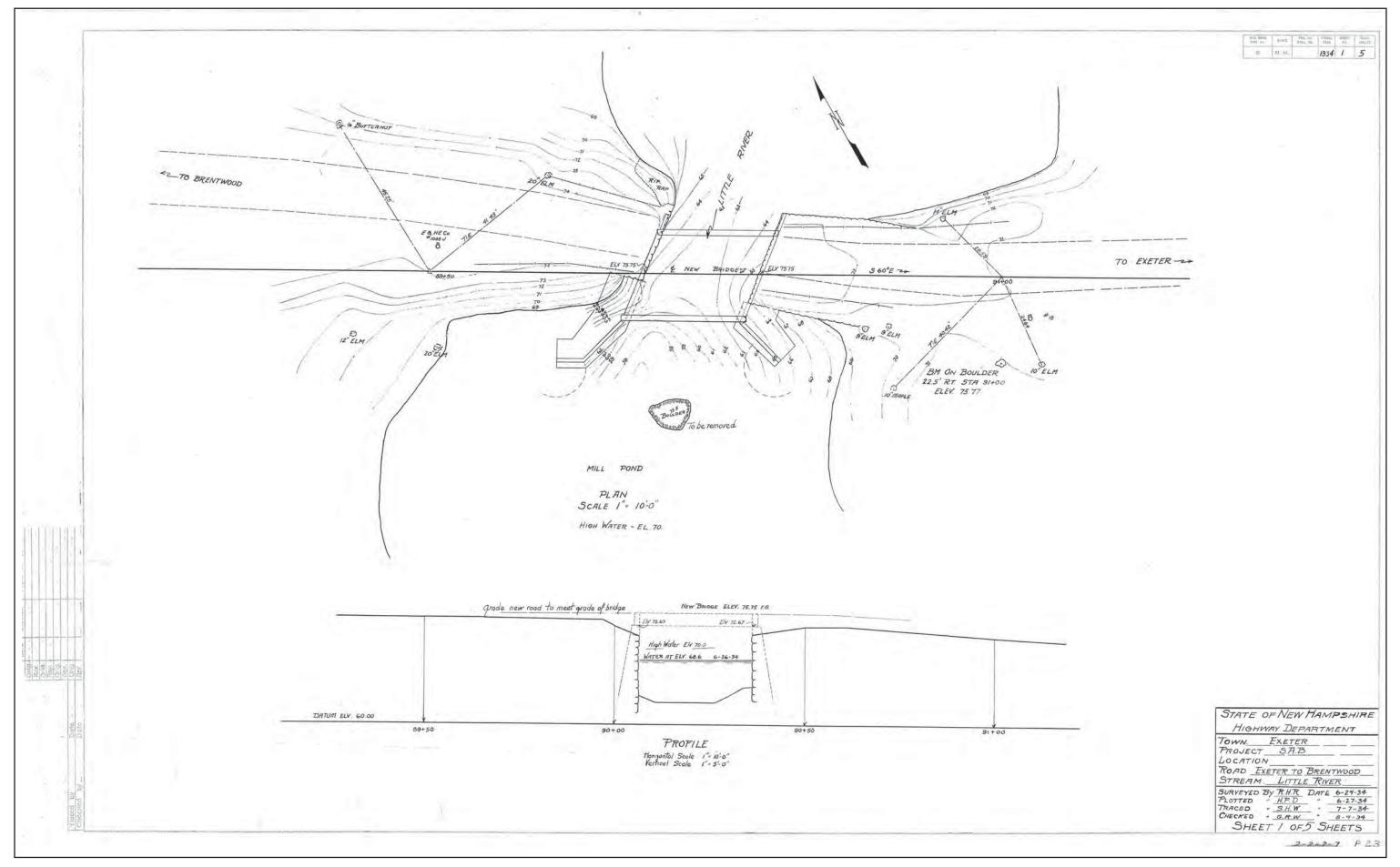
\* A representative selection of Whittum's plan sheets have been selected for reproduction in this portfolio appendix. The plan sheets are presented in chronological order and follow the table. Special thanks go to the NHDOT bridge department for scanning the plans. An asterisk next to the town name in the table indicates that a plan sheet has been included in the portfolio.

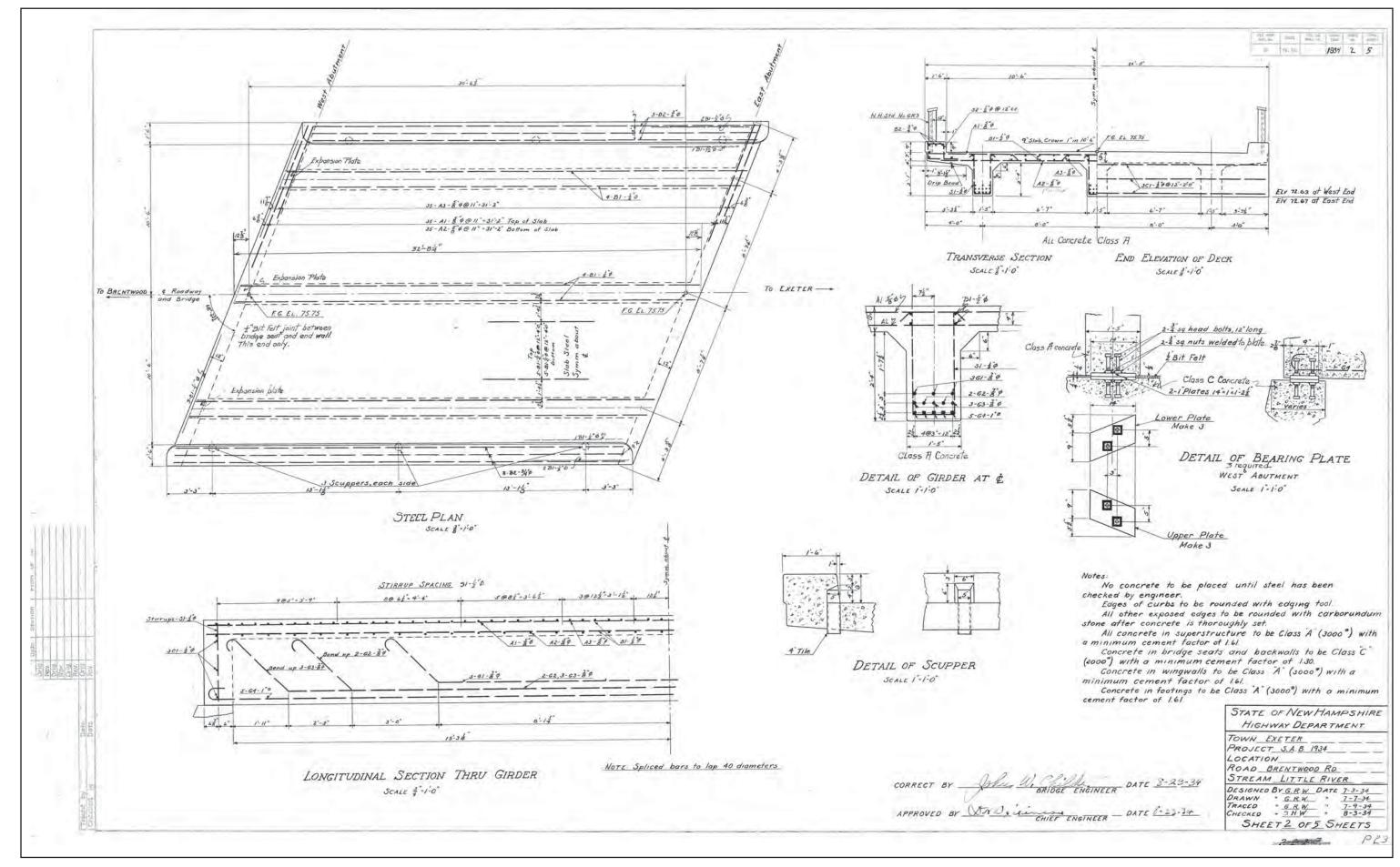
Date	Town	Bridge/Structure	NHDOT Plan Number	Notes
1934	Andover*	Bridge No. 053/092, NH Route 11 over Blackwater River	P2	One-span, 36-foot-long, reinforced-concrete T beam.
1934	Exeter*	Bridge No. 075/078, Brentwood Road over Little River	P23	One-span, 30-foot-long, reinforced-concrete slab.
1934	Exeter	Bridge No. 103/073, Water and High Streets/NH Route 101 over Exeter River	P24	One-span, 65-foot-long, haunched reinforced-concrete T beam. Traced by Gordon Whittum, not designed.
1934	Littleton	Bridge over Dodge Brook, later replaced by culvert, no bridge number.	P36	Timber-stringer bridge on timber crib abutments.
1934	Londonderry*	Bridge No. 166/021, Mammoth Road over Beaver Brook	Q27	One-span, 28-foot-long, reinforced-concrete rigid frame.

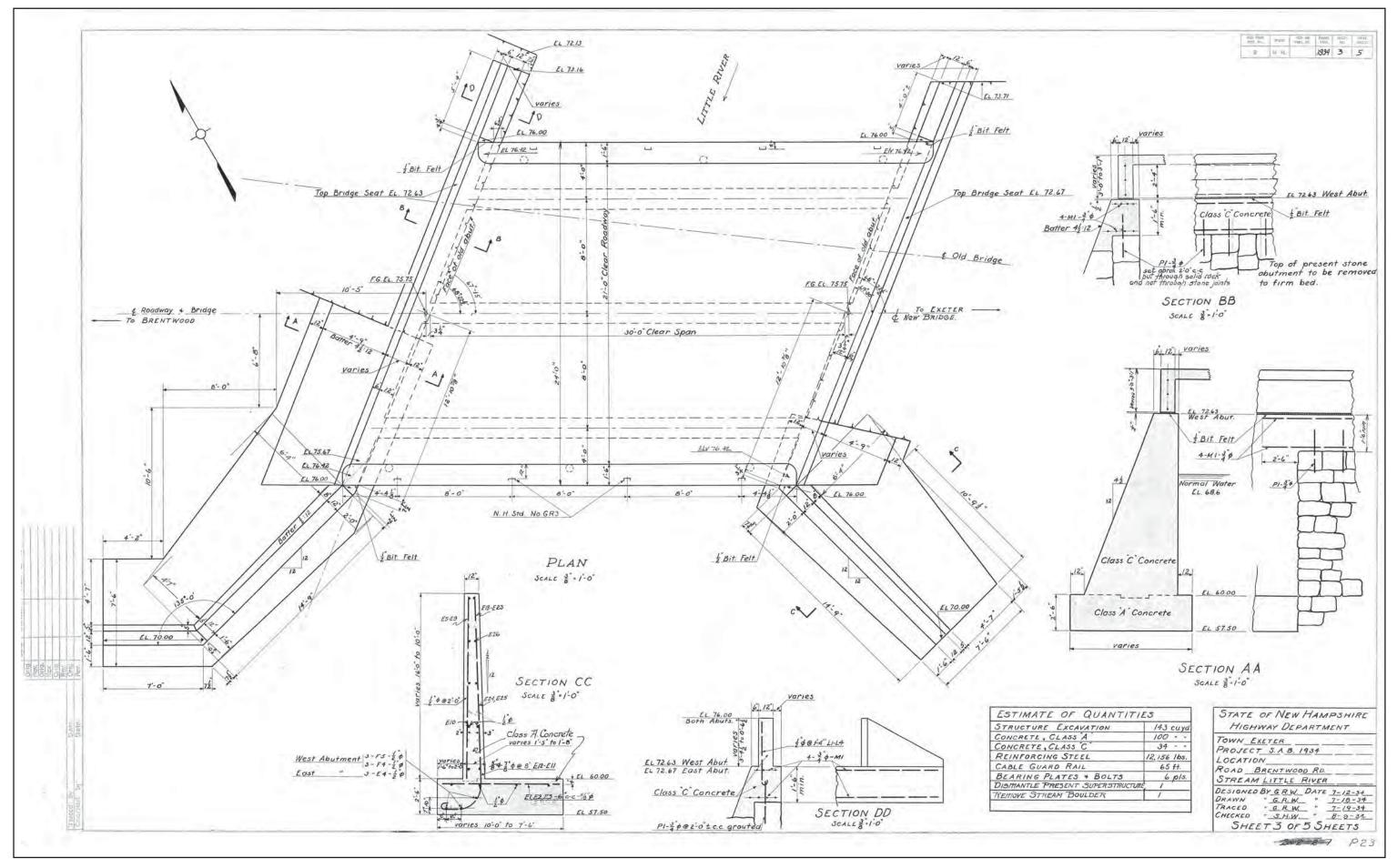
### APPENDIX A

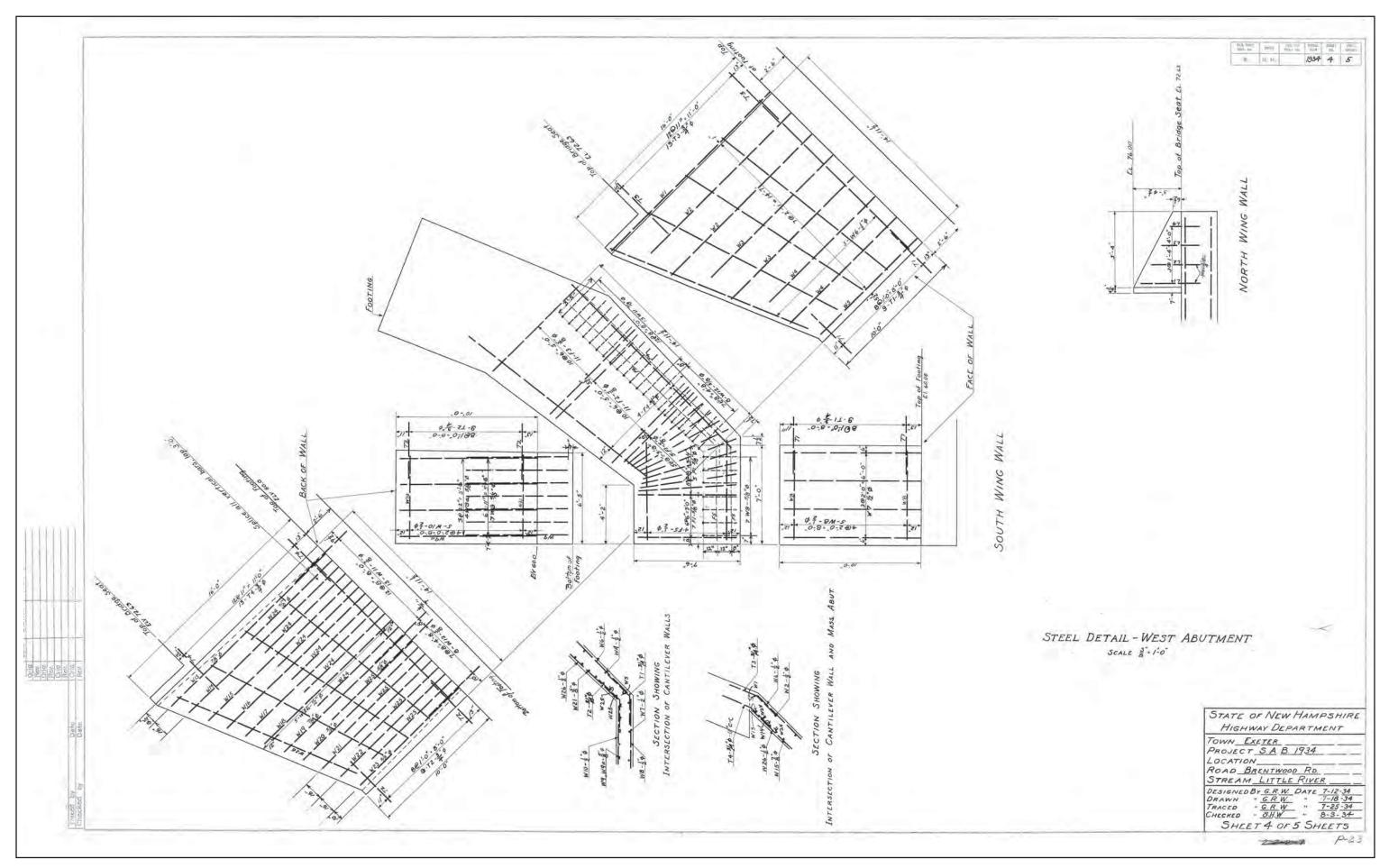
Date	Town	Bridge/Structure	NHDOT Plan Number	Notes
1934	Marlborough*	Bridge No. 089/127, NH Route 44 over Robbins Brook	Q1	One-span, 27-foot-long, reinforced-concrete slab.
1934	Marlborough*	Bridge No. 113/132, NH Route 101 over Robbins Brook	Q5	Reinforced-concrete box culvert, 10-foot span.
1935	Alstead*	Bridge No. 073/163, NH Route 101 over Warren Pond Brook	T1	One-span, 37-foot-long, reinforced-concrete T beam. Whittum designed forms for balustrades; bridge designed by others.
1935	Croydon*	Bridge No. 112/069, Dartmouth College Road/NH Route 10 over Croydon Branch River	T10	One-span 58-foot-long, haunched reinforced-concrete T beam; horizontal curvature.
1935	Gilsum*	Bridge No. 097/129, Dartmouth College Road/NH Route 10 over Unnamed Stream	T18	Reinforced-concrete box culvert, 9-foot span.
1935	Winchester*	Bridge No. 152/181, Dartmouth College Road/NH Route 10 over Ashuelot River	U33	Three-span, 180-foot-long, continuous haunched steel multi-girder.
1936	Barrington*	Bridge No. 170/093, Barrington-Lee Road over Bellamy River	1-12-2-6	Rehabilitation of existing steel deck girder bridge.
1936	Gilford*	Bridge No. 138/137, Back of Mountain Road (N.H. Route 11-A) over Poor Farm Brook	1-11-2-6	One-span reinforced-concrete T beam, clear span of 30 ft.
1936	Greenville*	Bridge No. 071/101, Main Street over Souhegan River, Columbian Mills	1-15-2-1	One-span, 47-foot-long, reinforced-concrete rigid frame.
1936	Lebanon, N.H Hartford, Vt.*	Bridge No. 058/127, U.S. Route 4 over Connecticut River	1-10-2-1	Two-span through-truss and one-span pony truss, total length of 382 ft. Whittum designed rehabilitation of existing substructure units only.
1936	Lyme, N.HThetford, Vt.*	Bridge No. 053/112, Lyme Road over Connecticut River	1-14-2-6	Two-span through-truss , total length of 463 ft. Whittum designed substructure units, only.
1936	Peterborough*	Bridge No. 087/087, Grove Street over Nubanusit River	1-9-1-1	One-span reinforced-concrete rigid frame with stone veneer.
1936	Peterborough*	Bridge No. 057/108, South Side Road/Union Street over Nubanusit River	1-13-3-2	One-span reinforced-concrete rigid frame with stone veneer.
1937	Newbury*	Bridge No. 116/085, NH Route 103 (Newbury Cut-off) over Andrews Brook	1-14-1-3	One-span 80-foot-long steel-plate deck girder

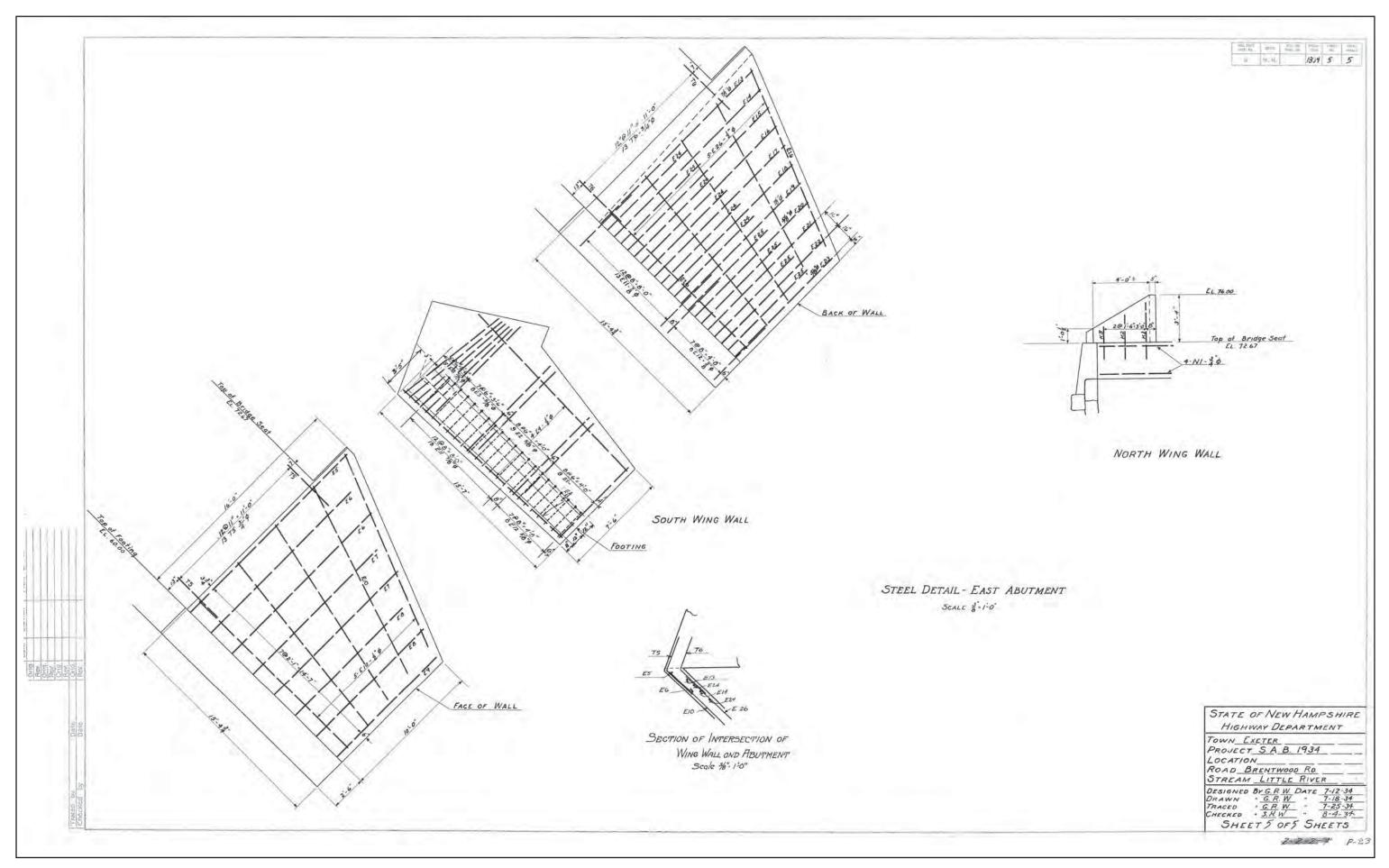


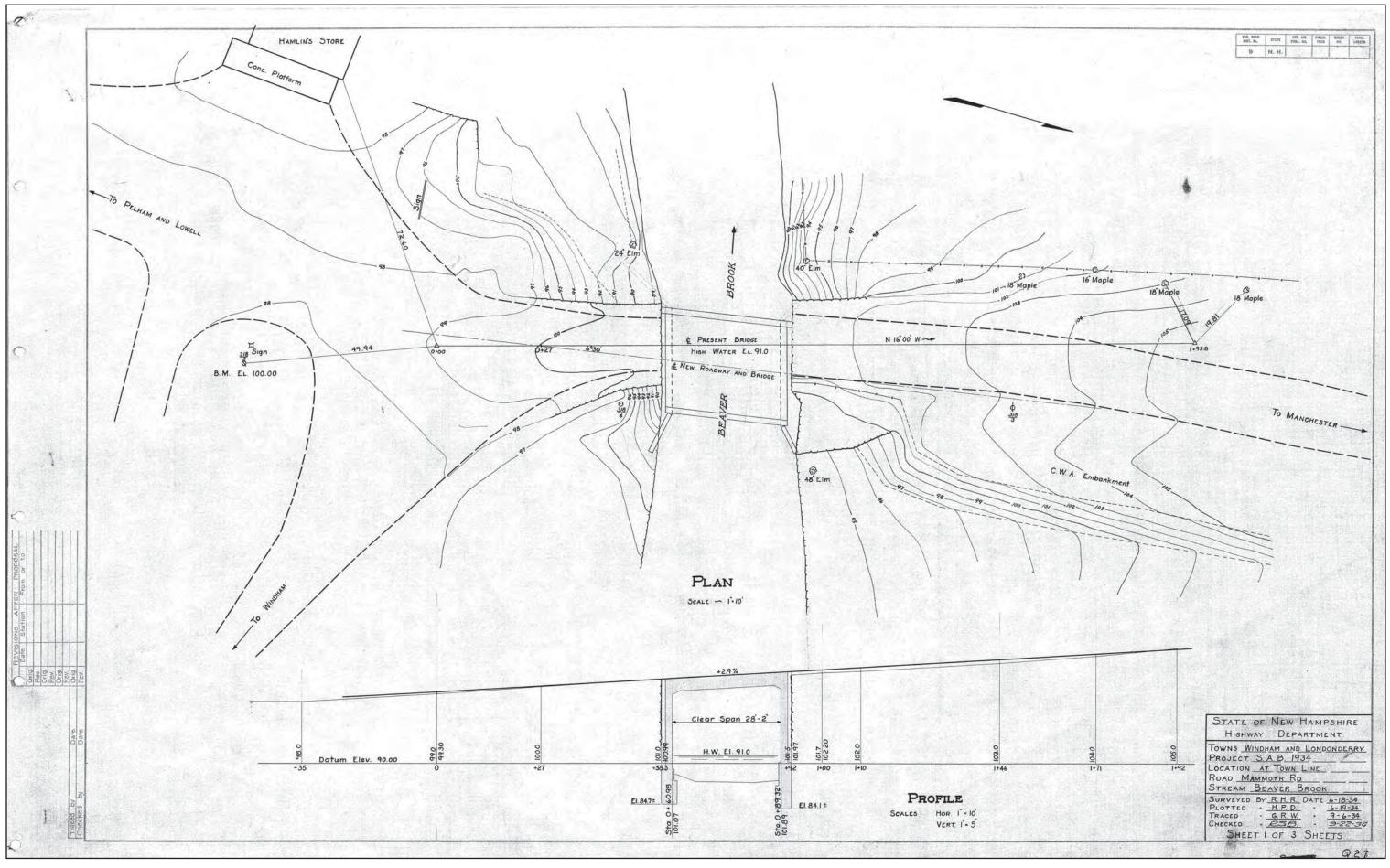


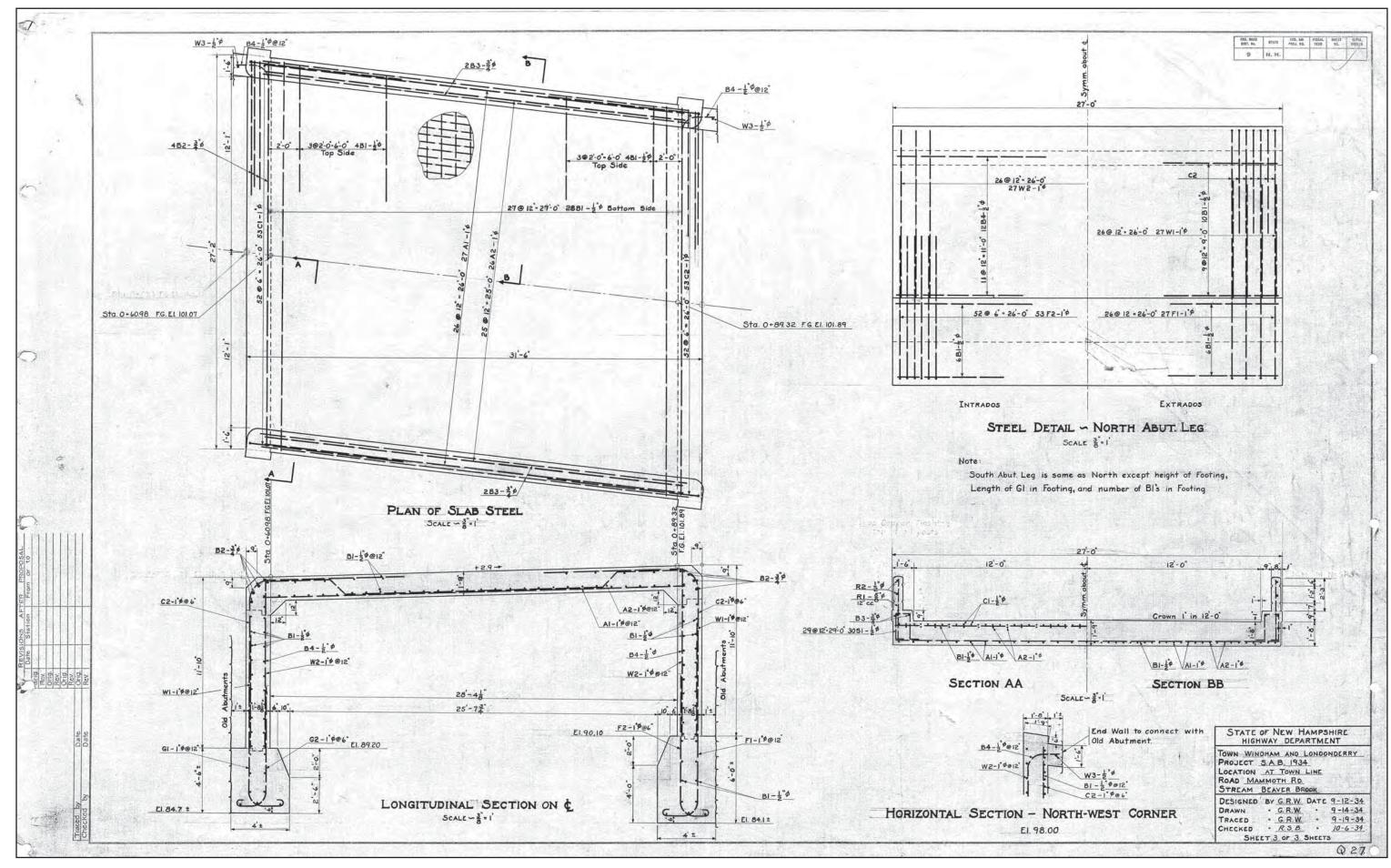


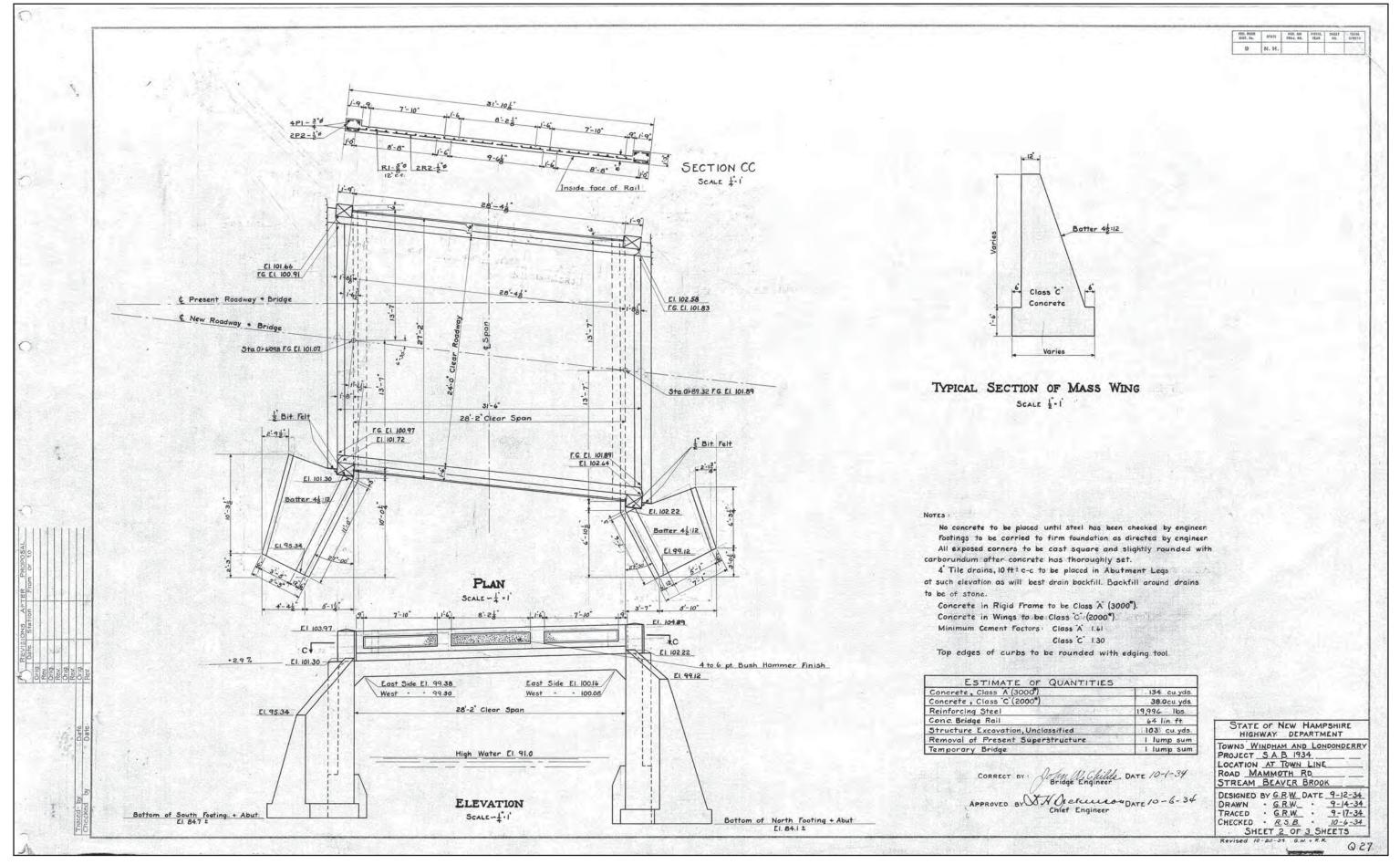


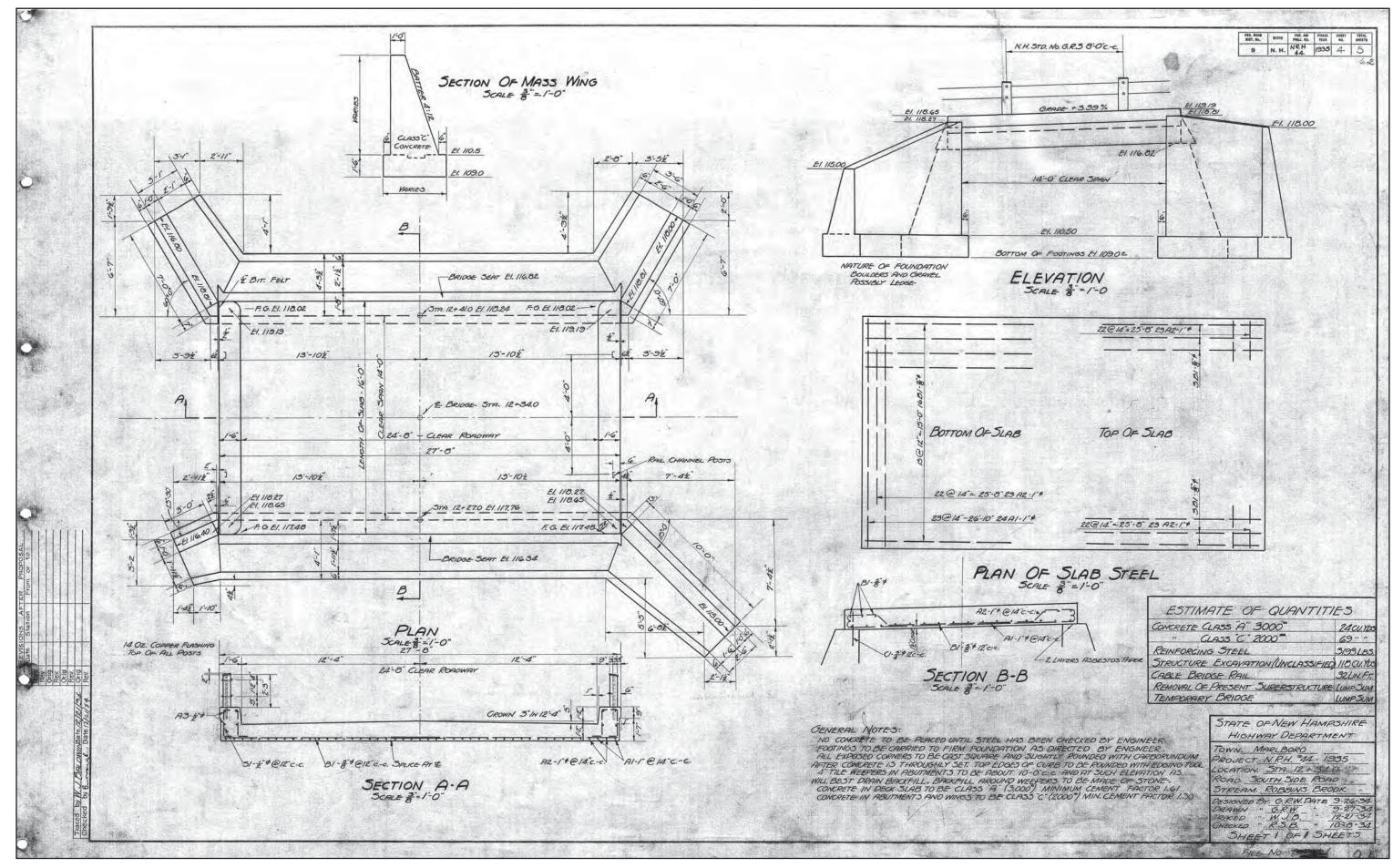


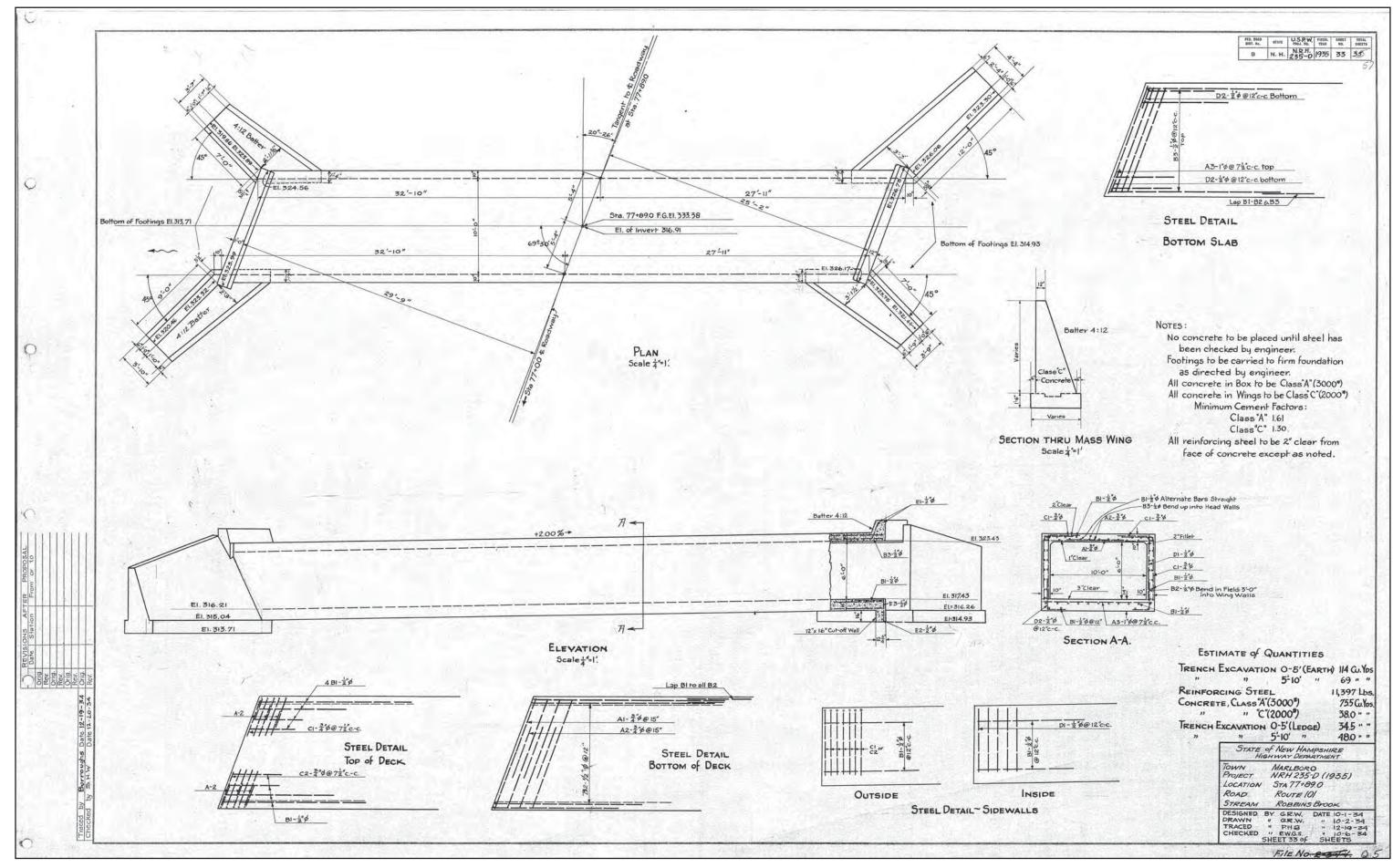


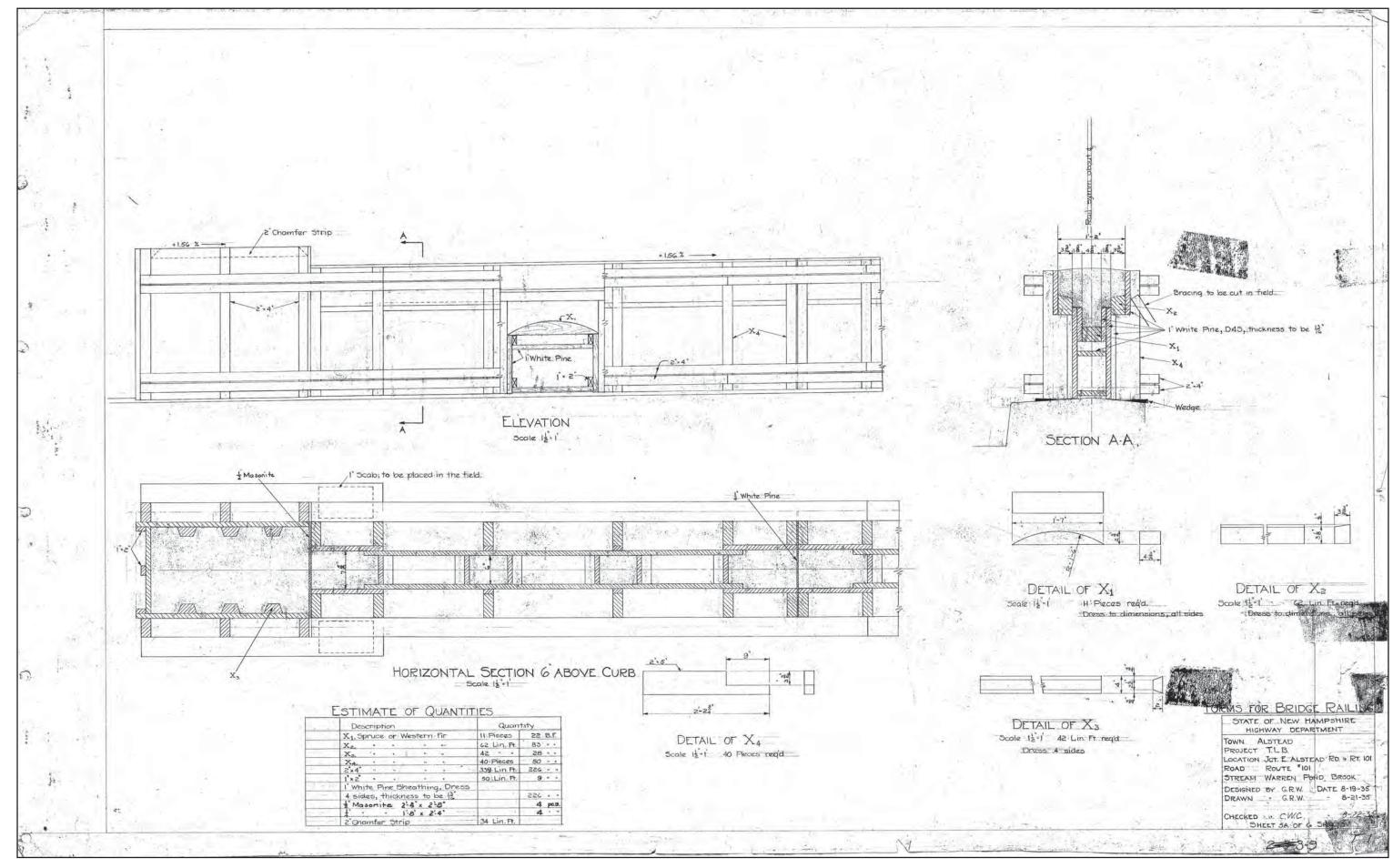


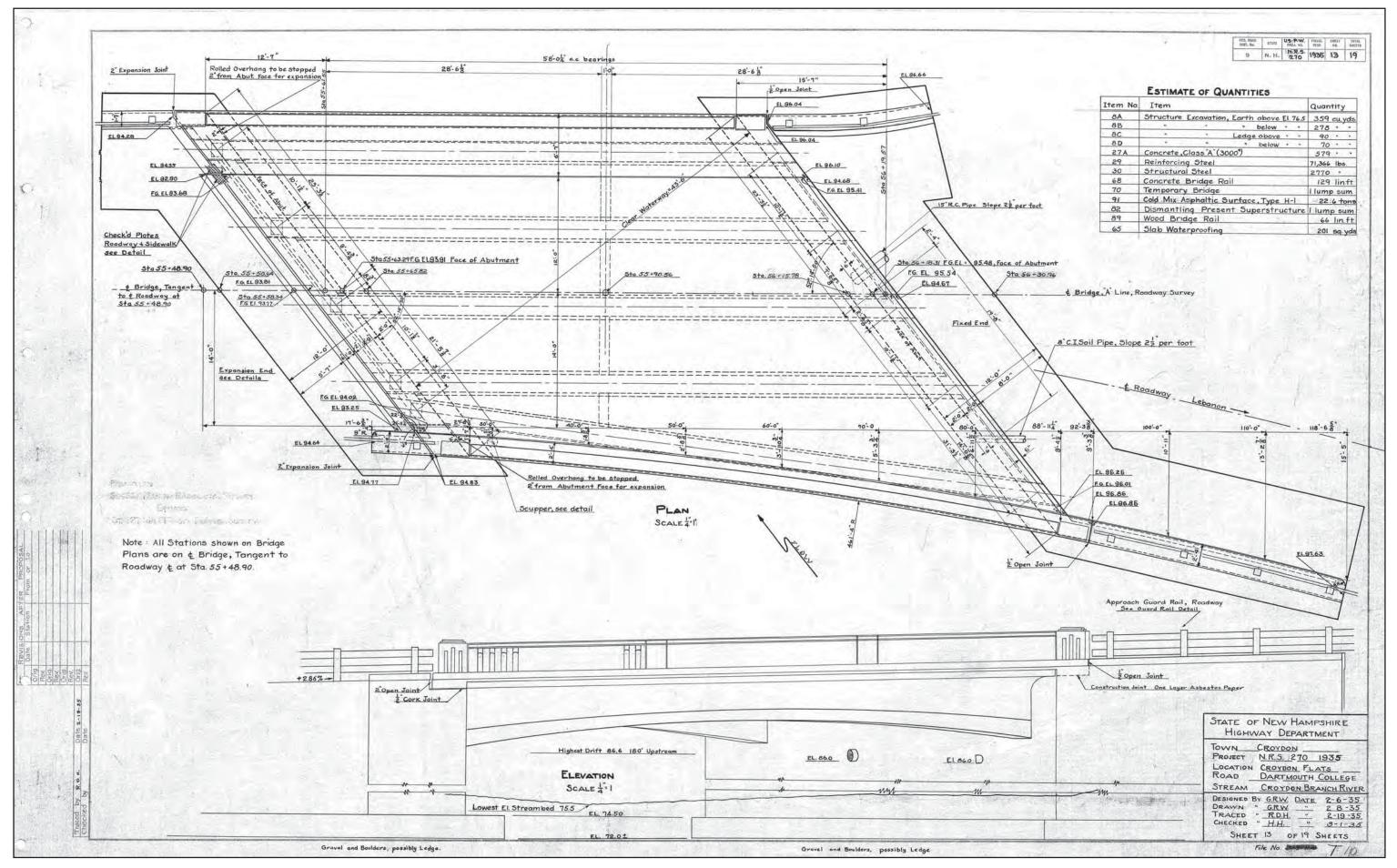


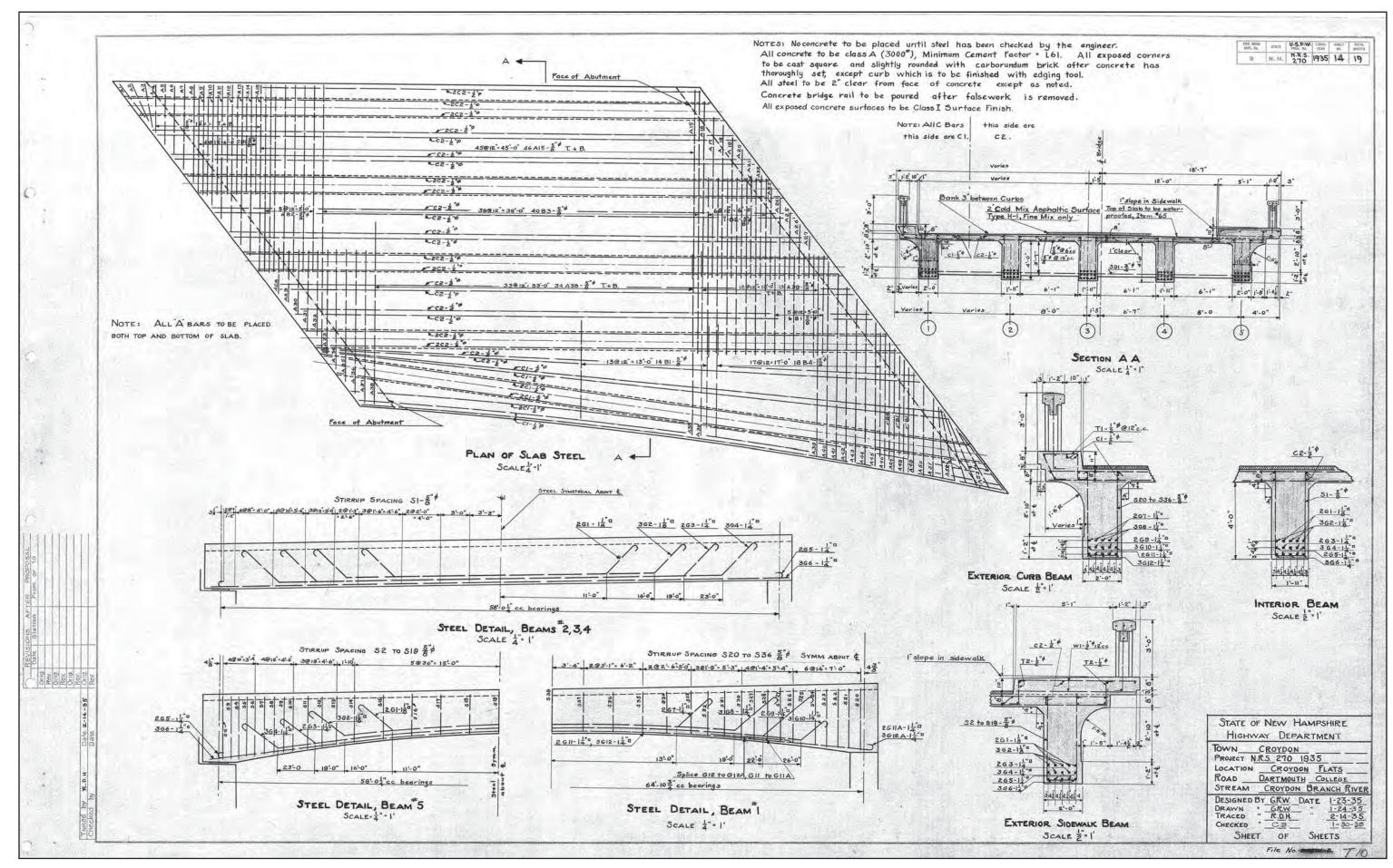


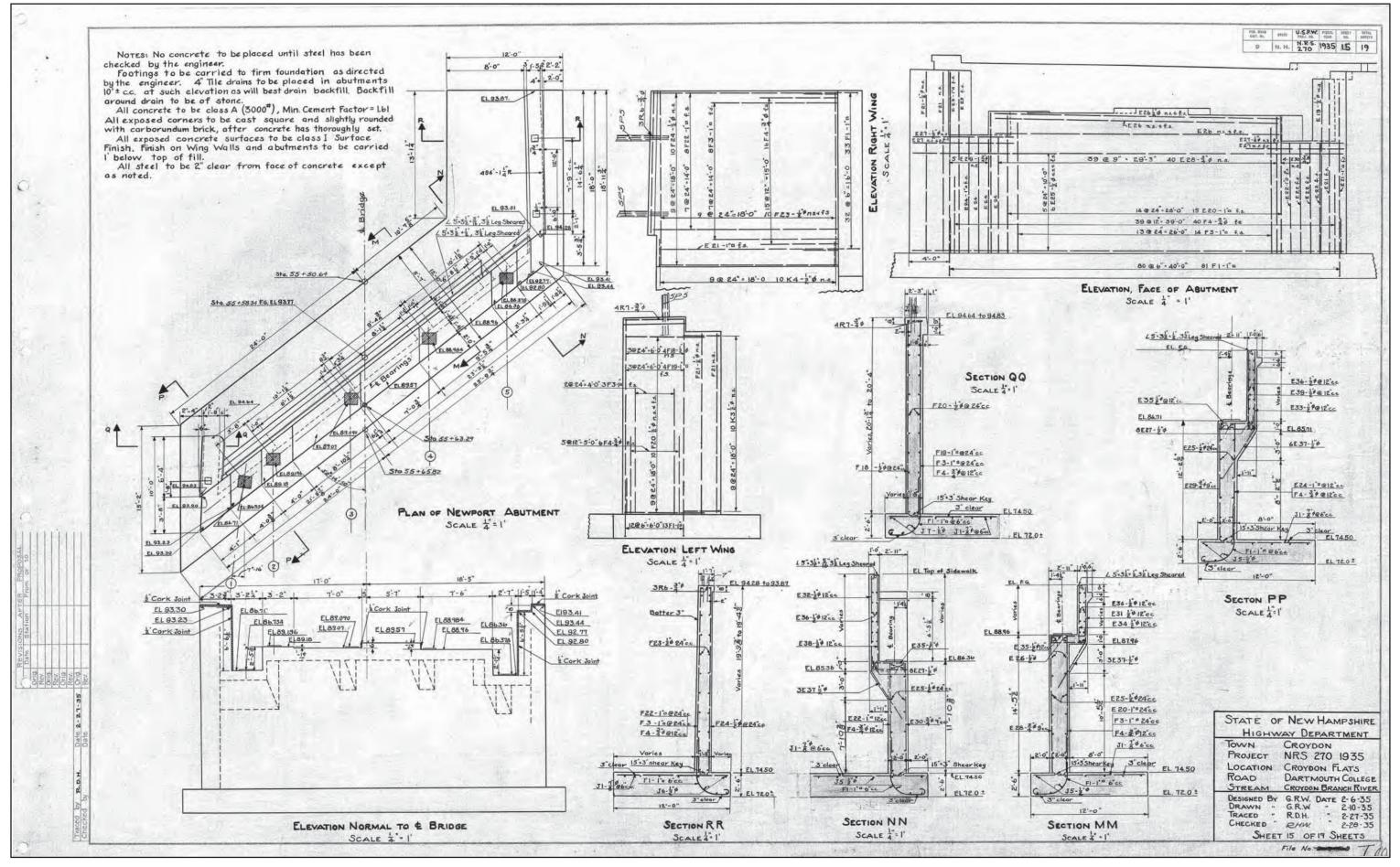


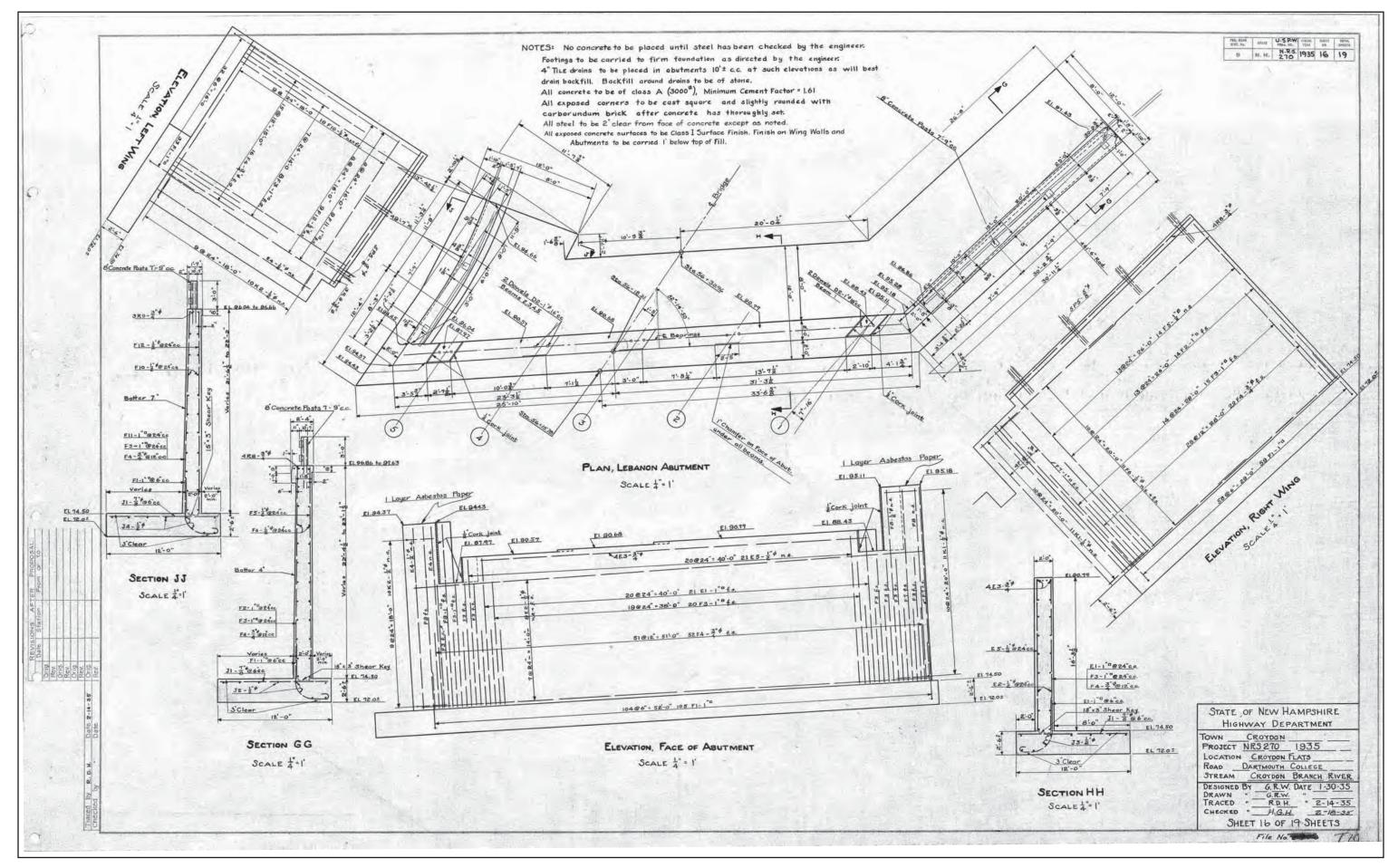


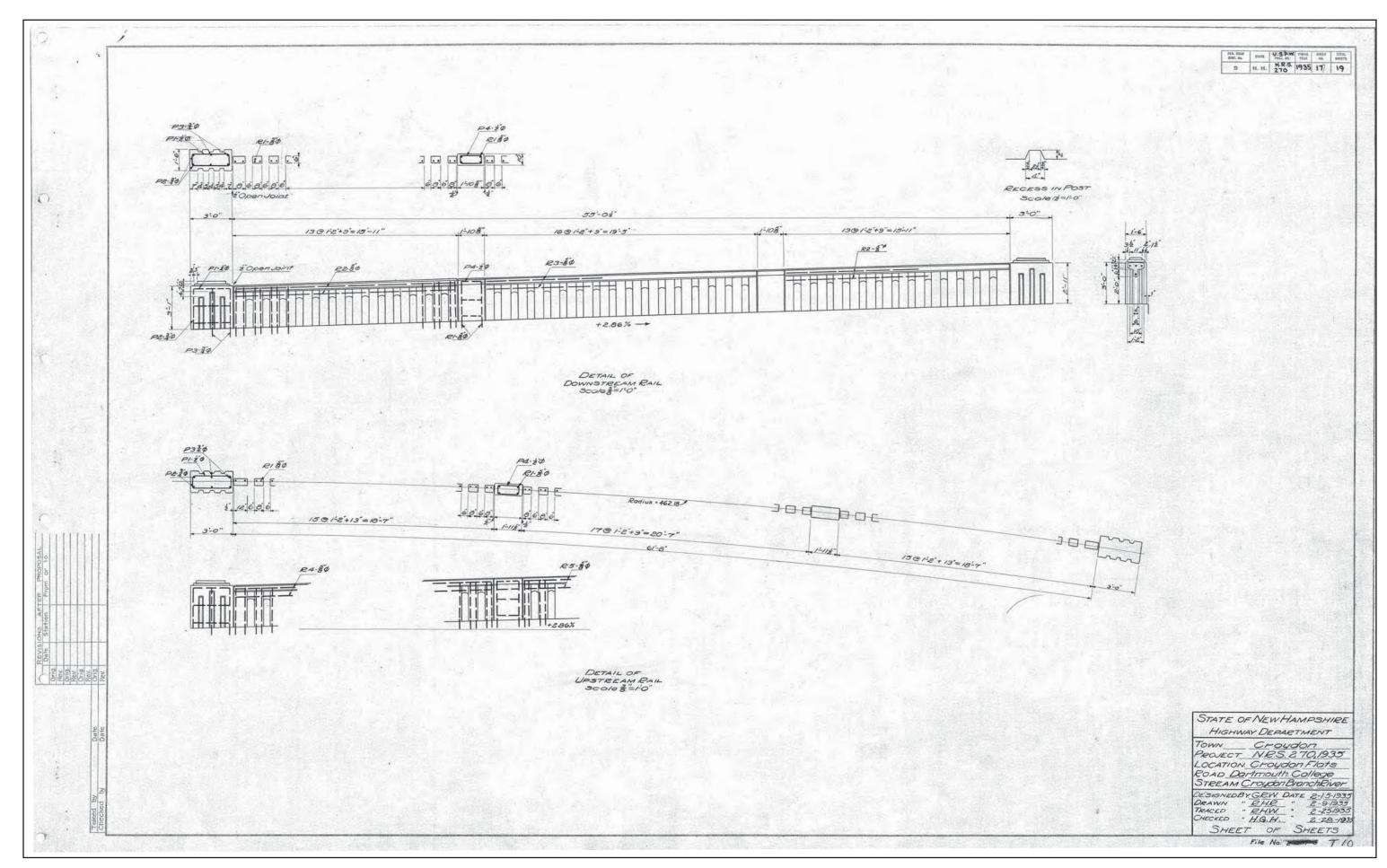


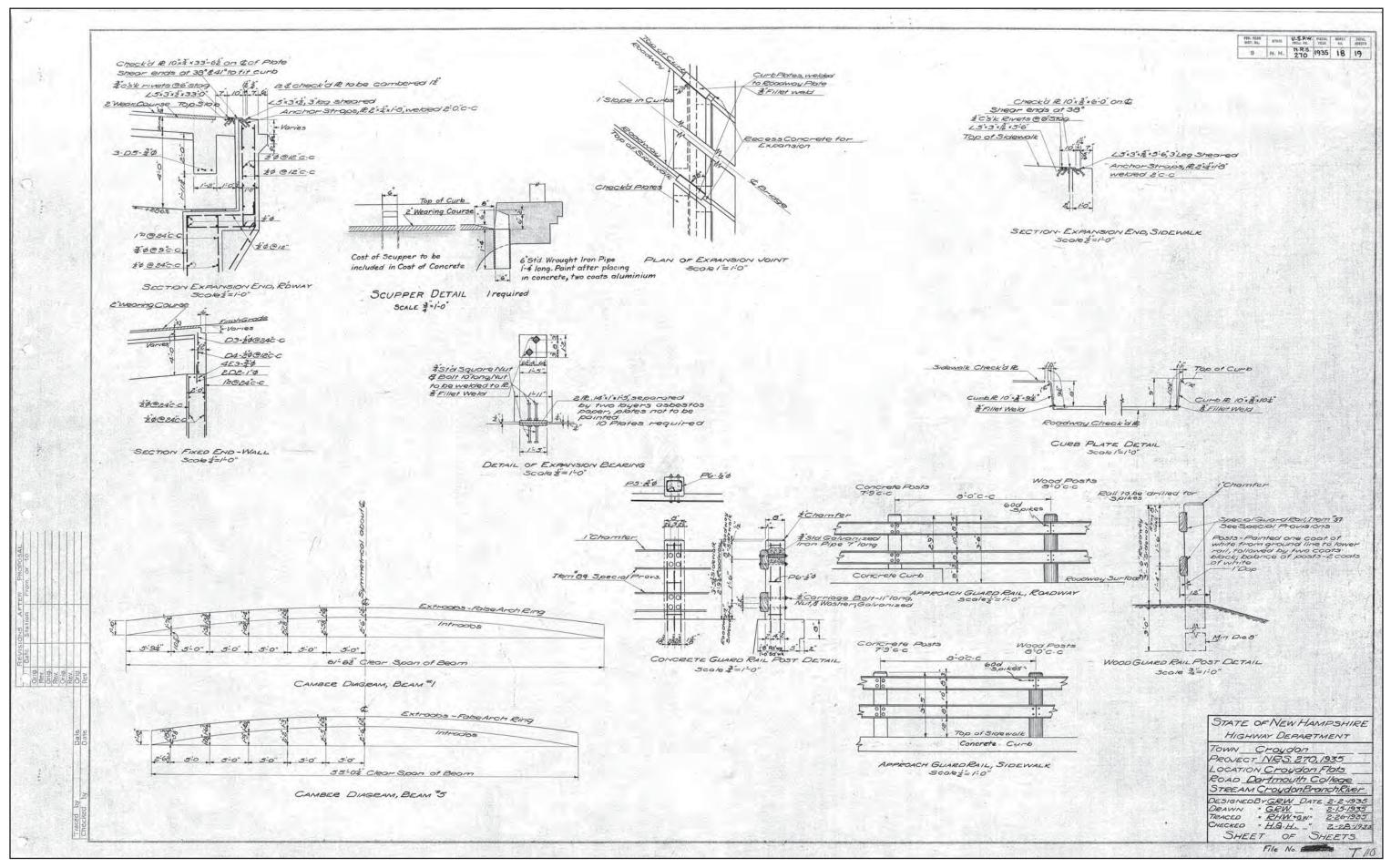


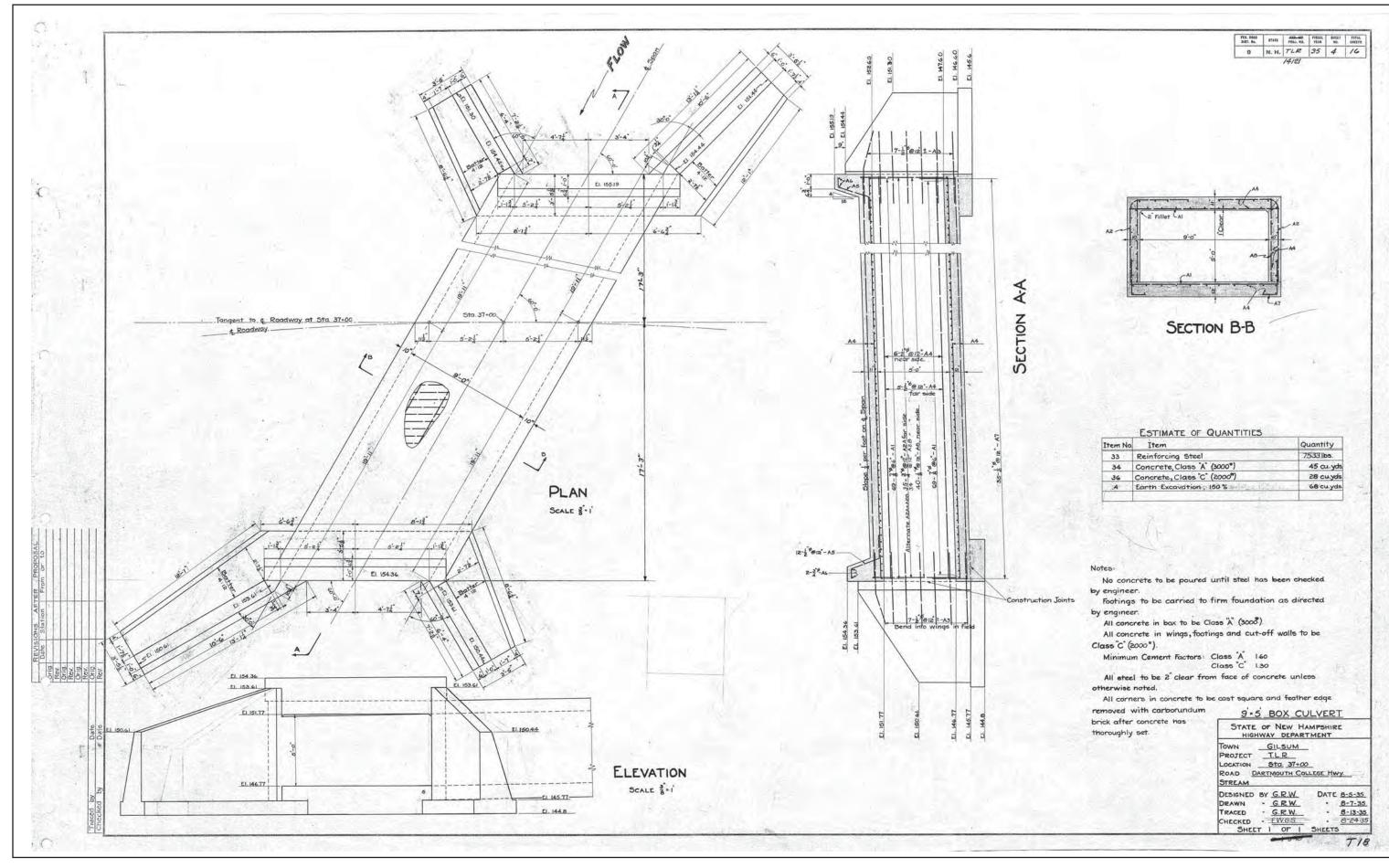


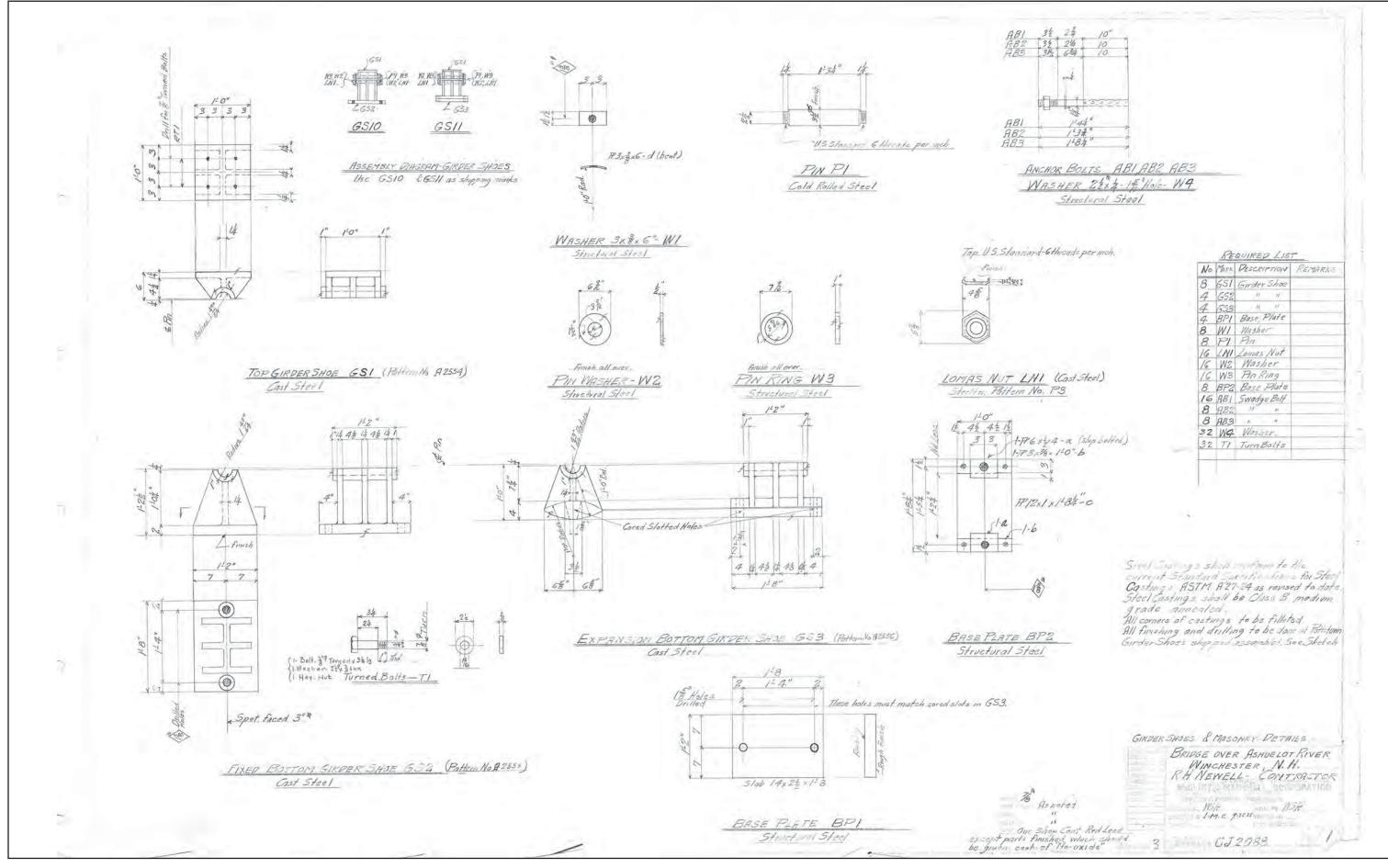


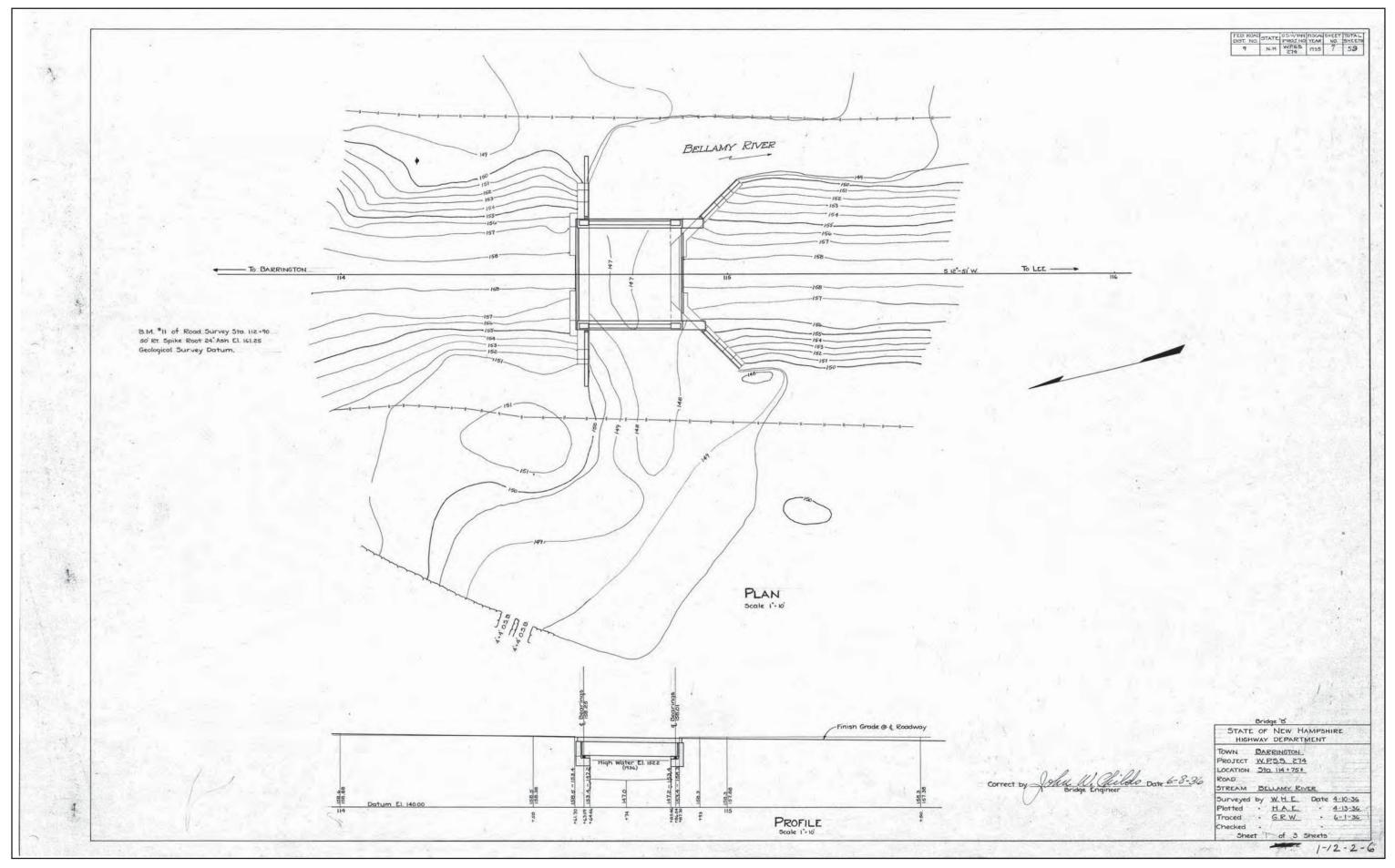


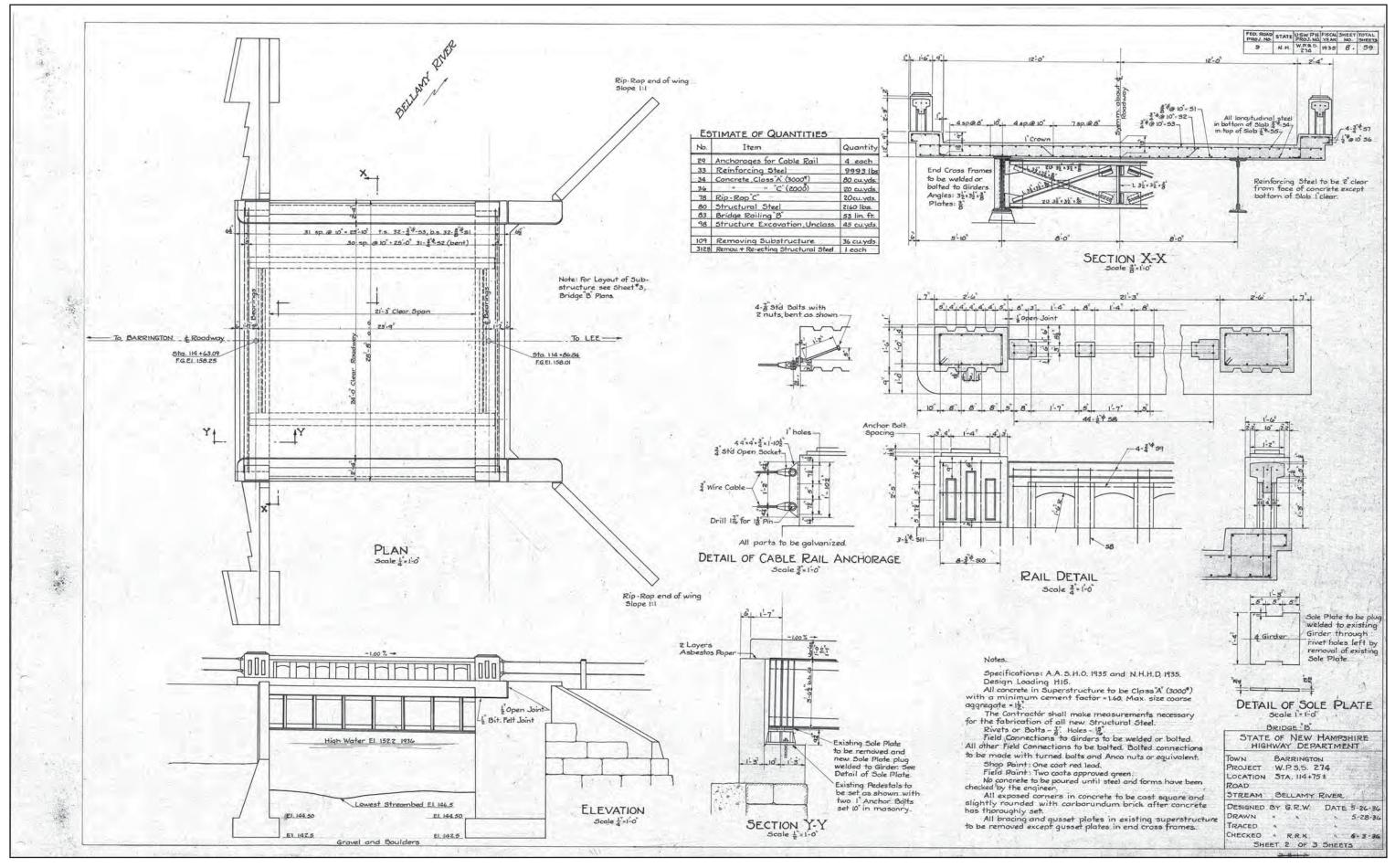


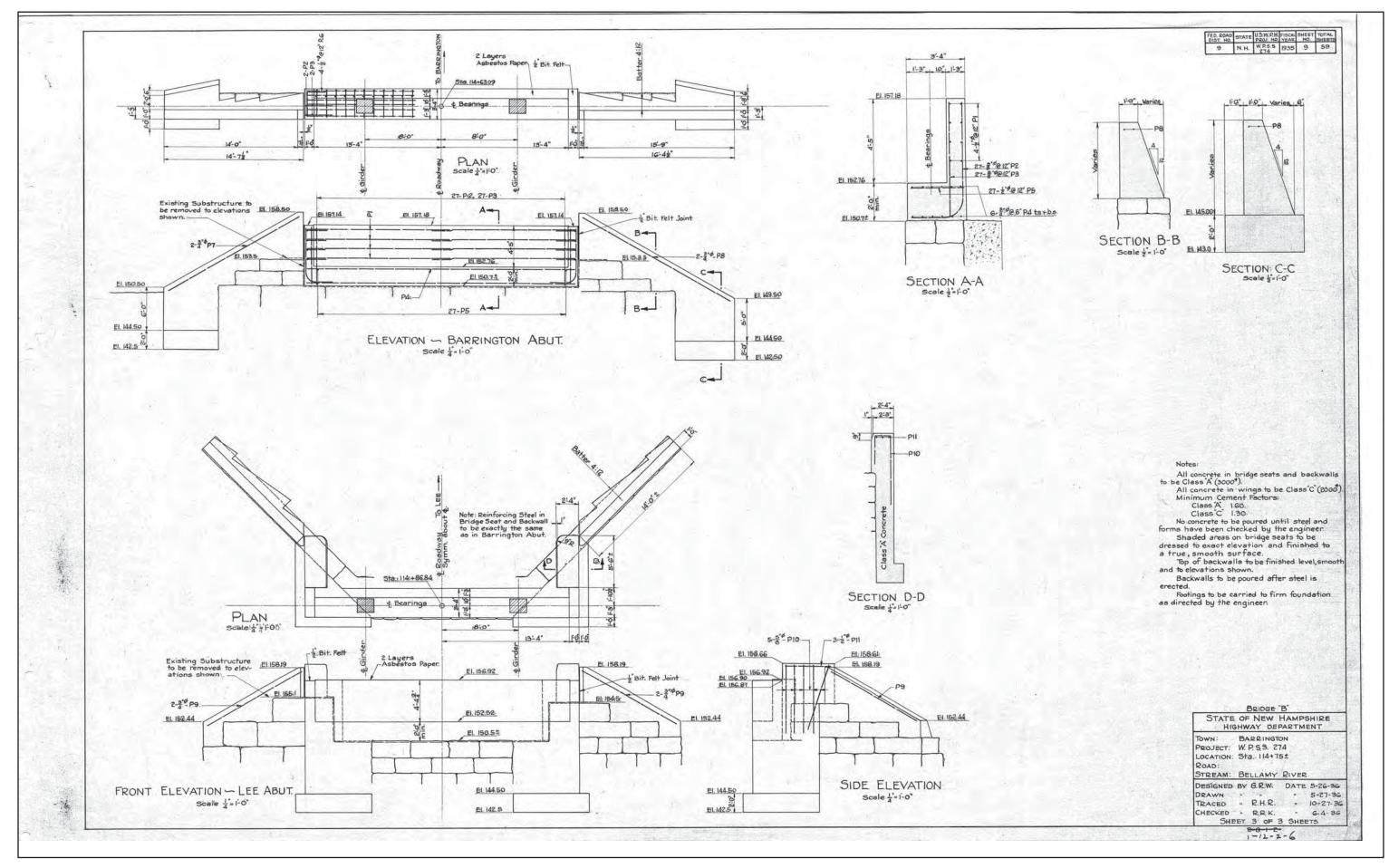


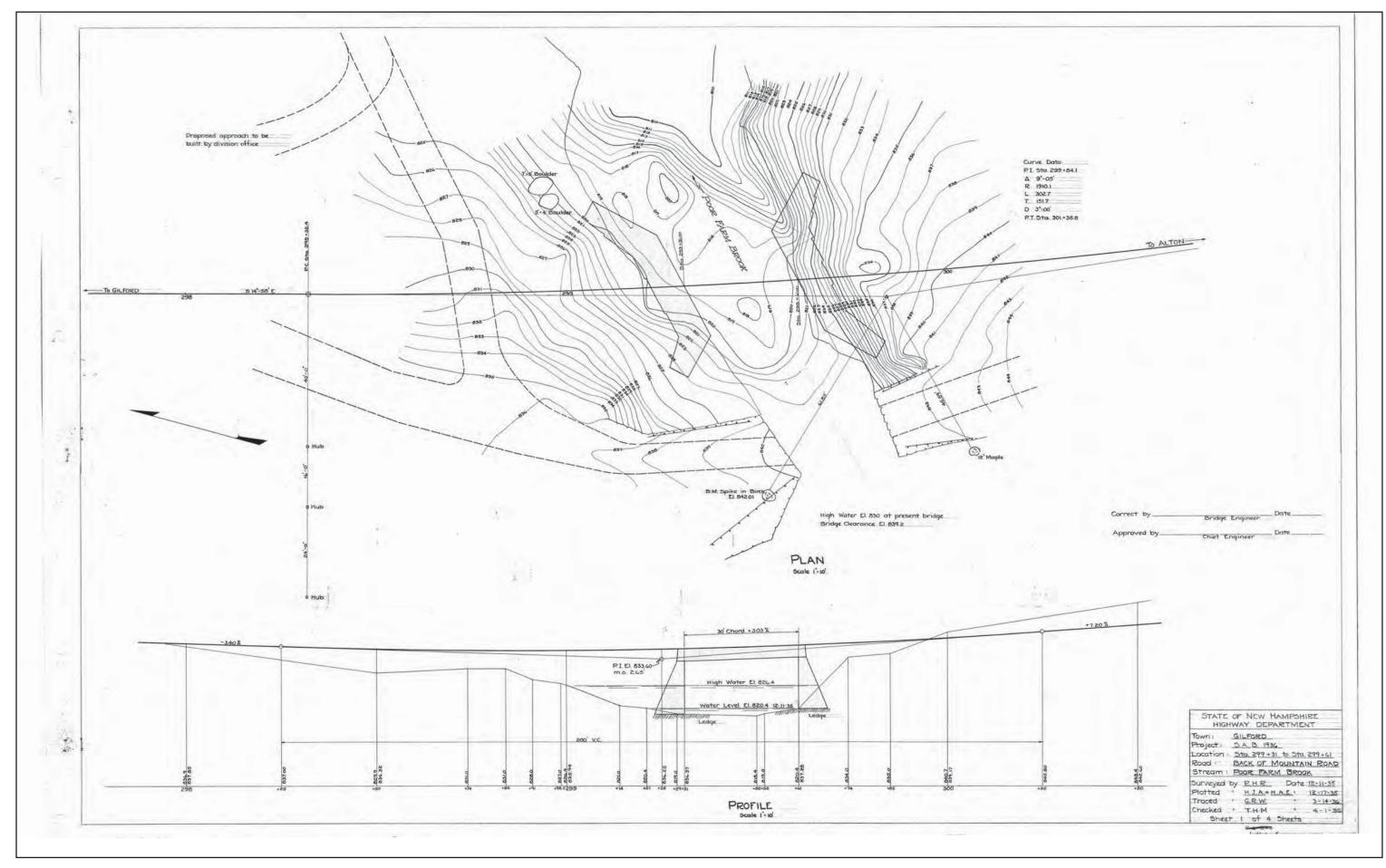


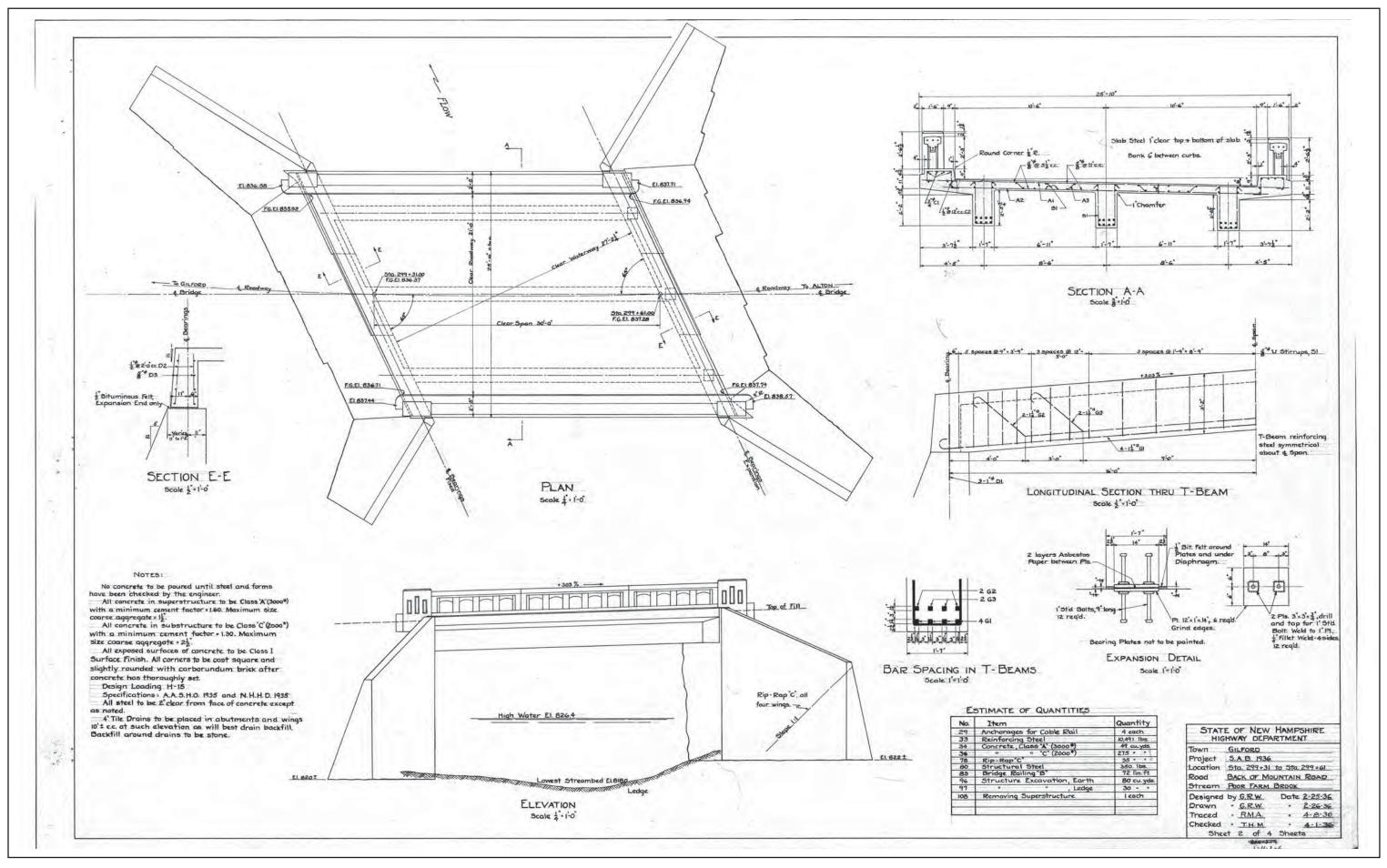


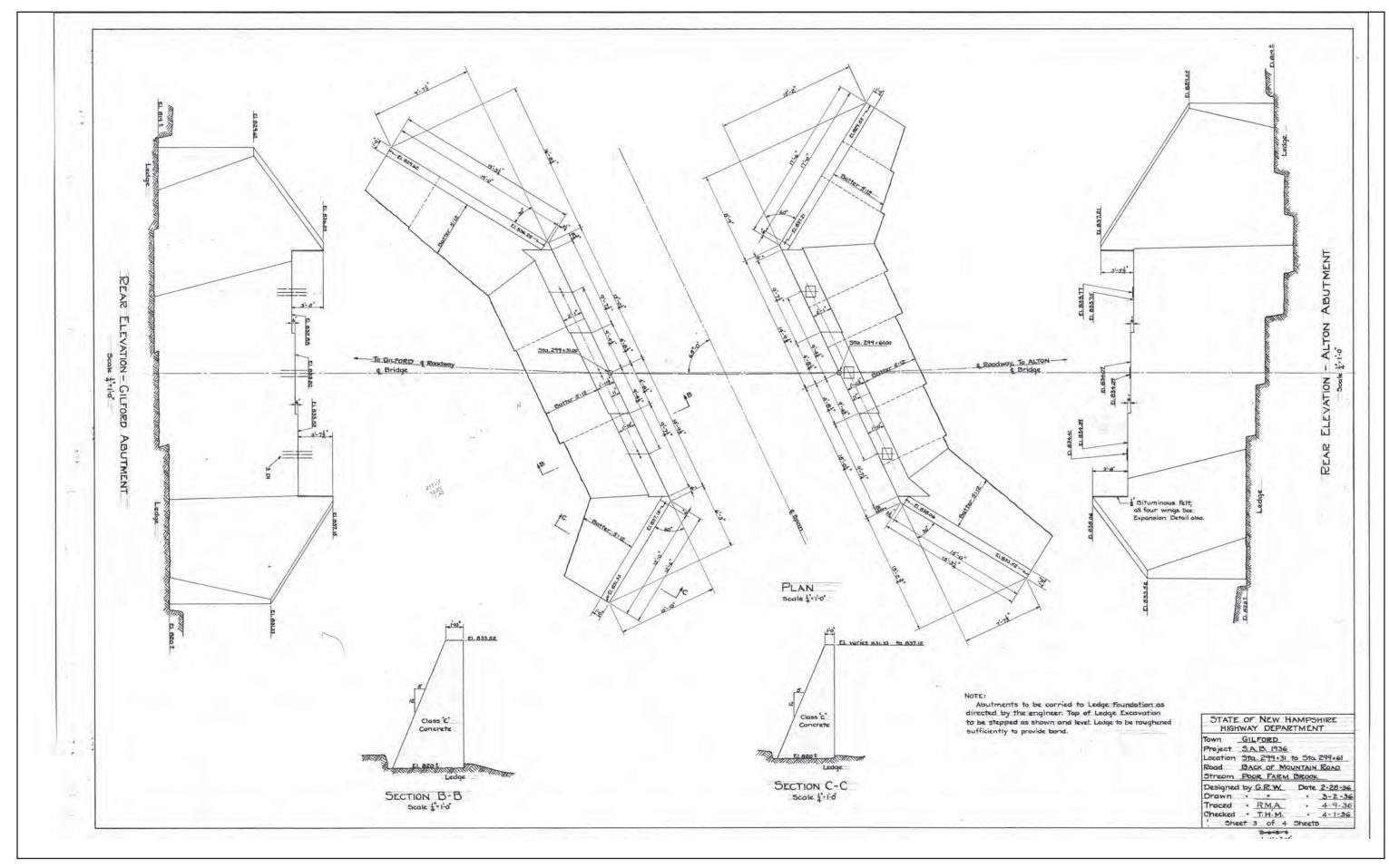


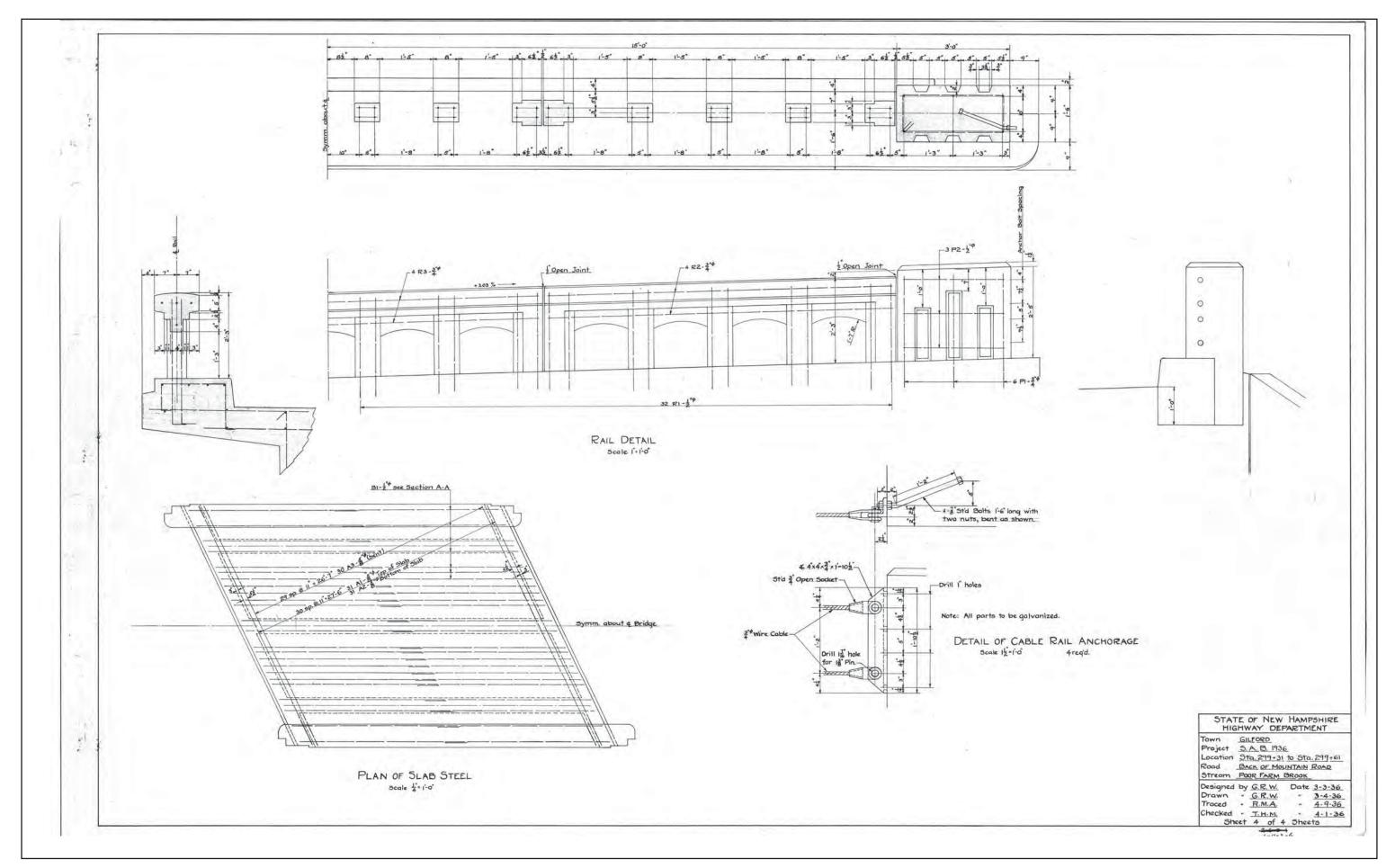


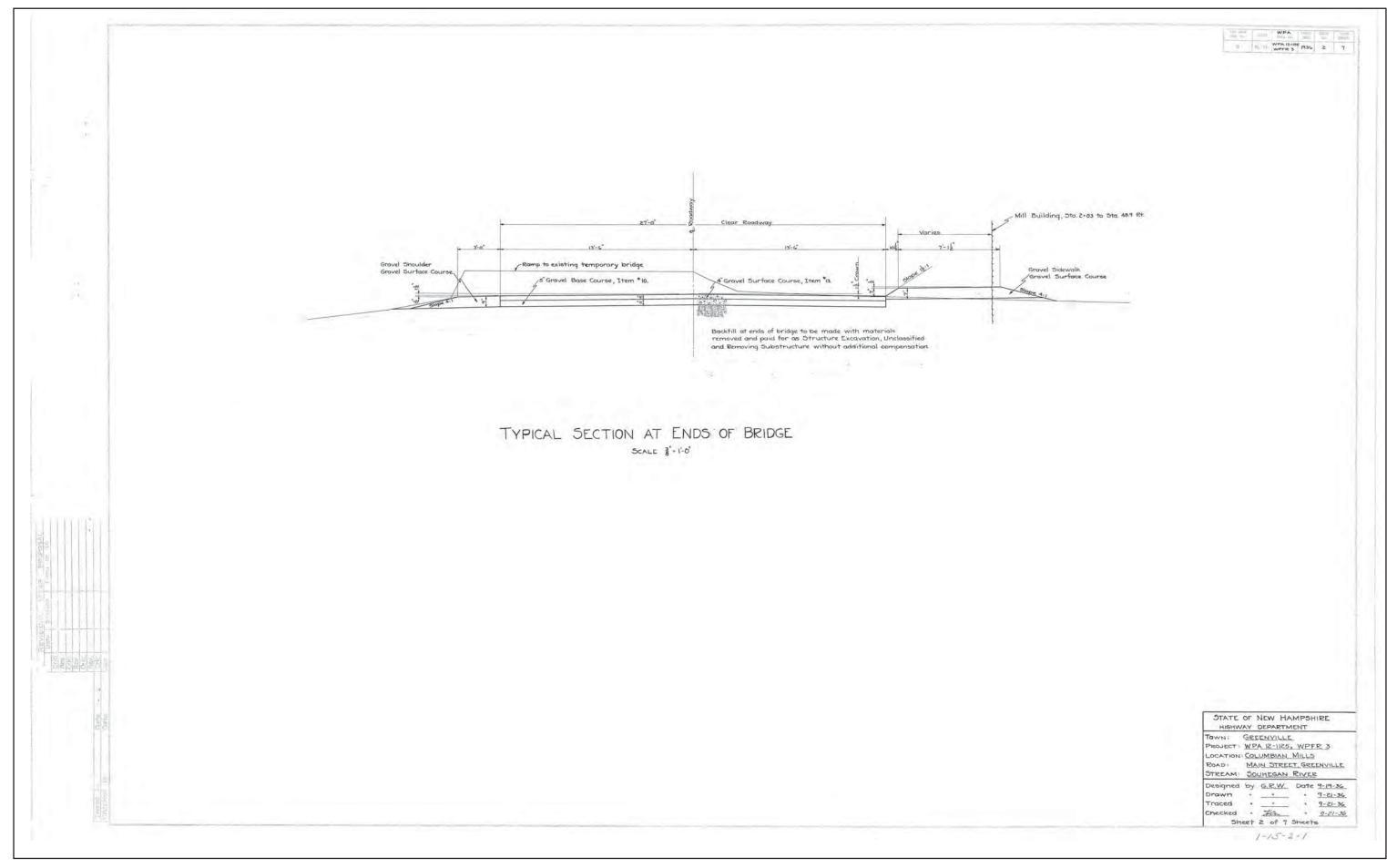


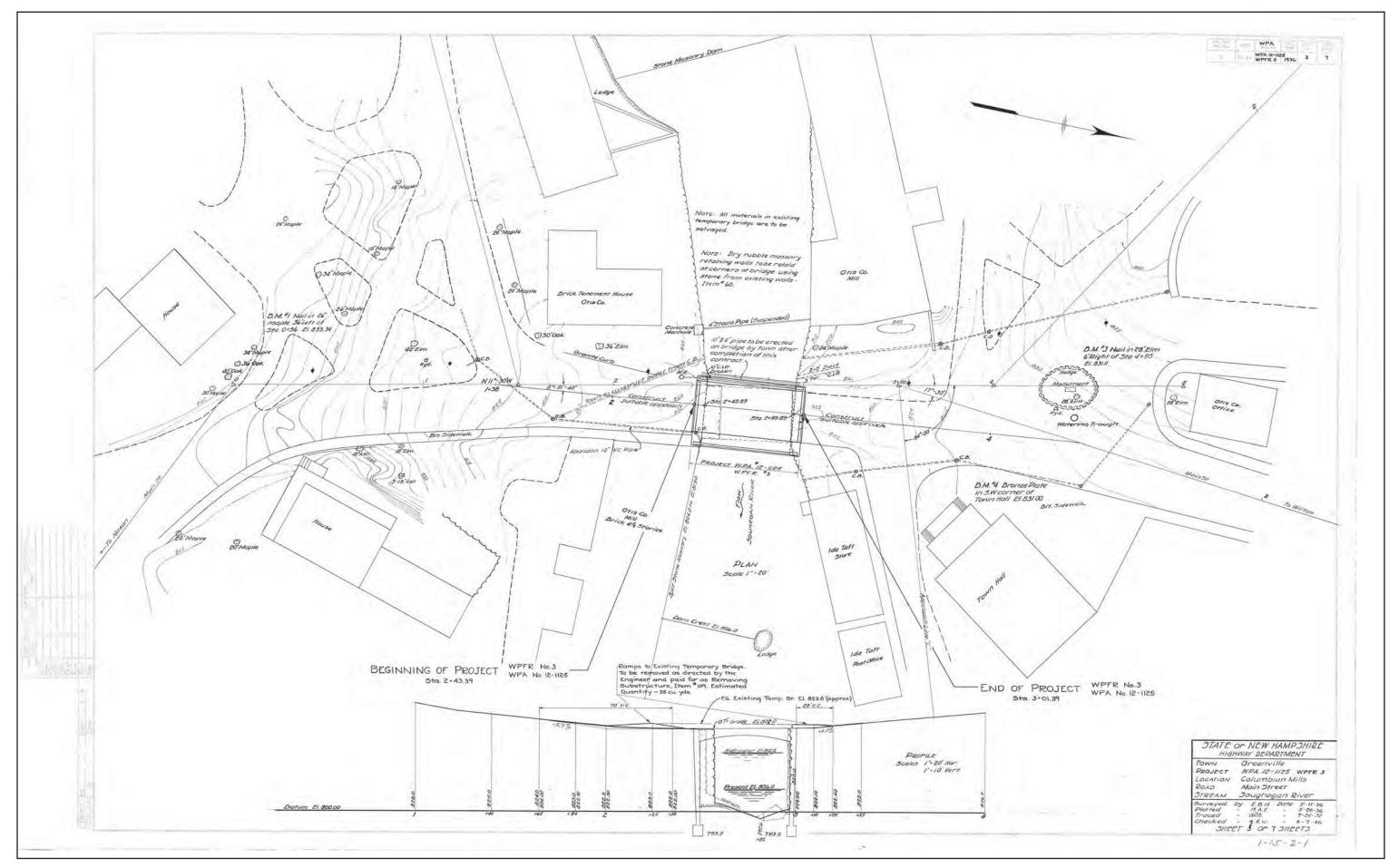


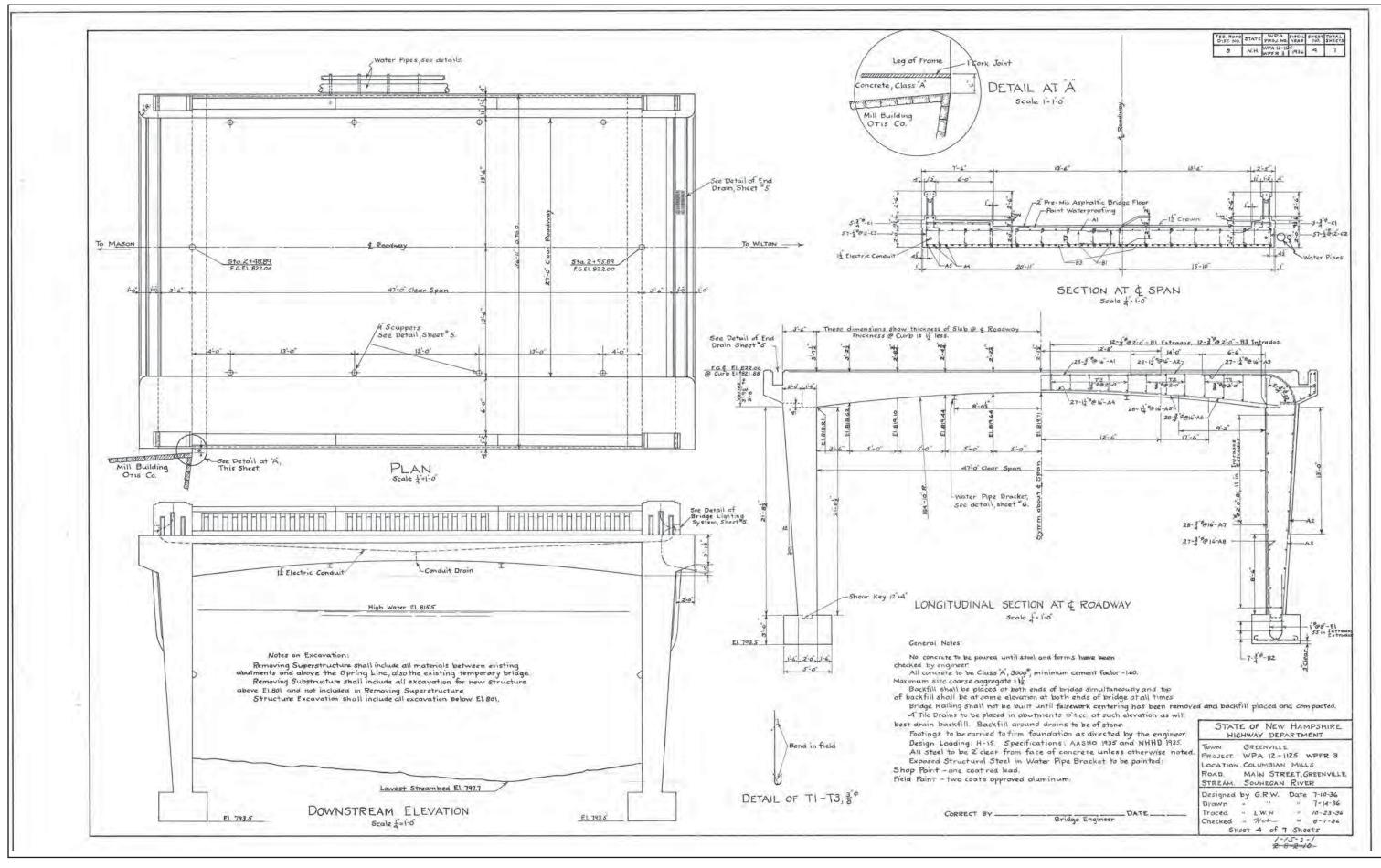


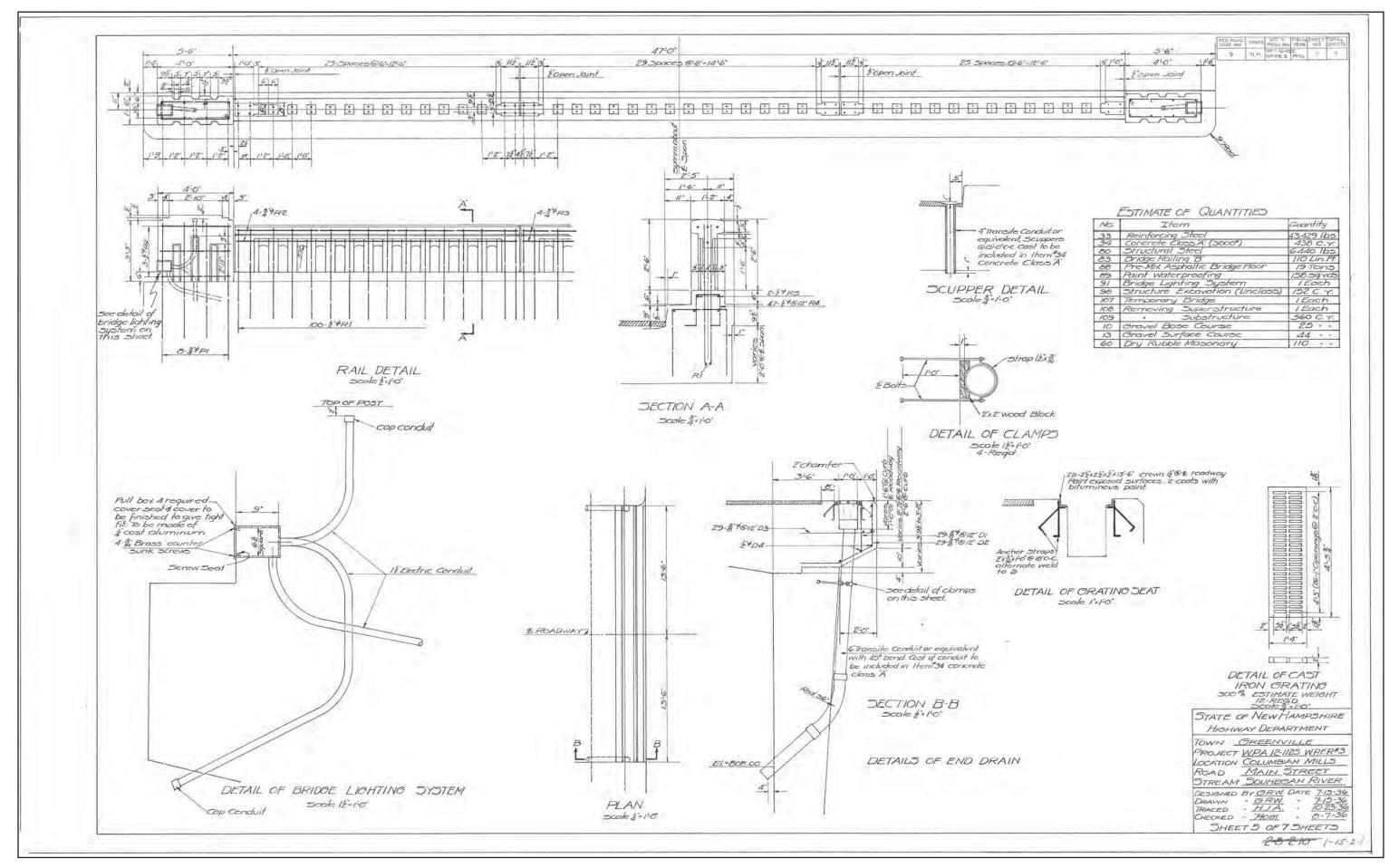


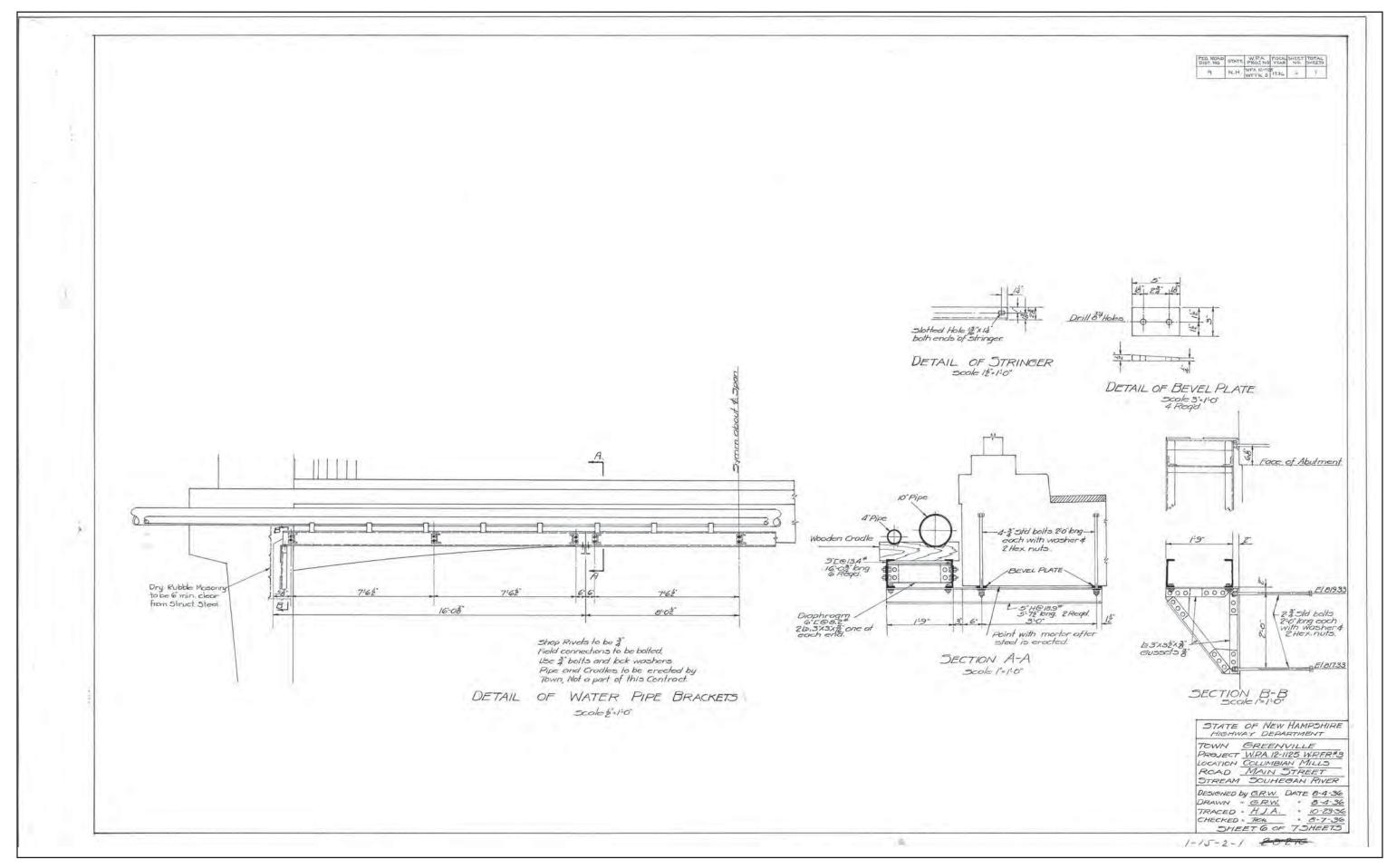


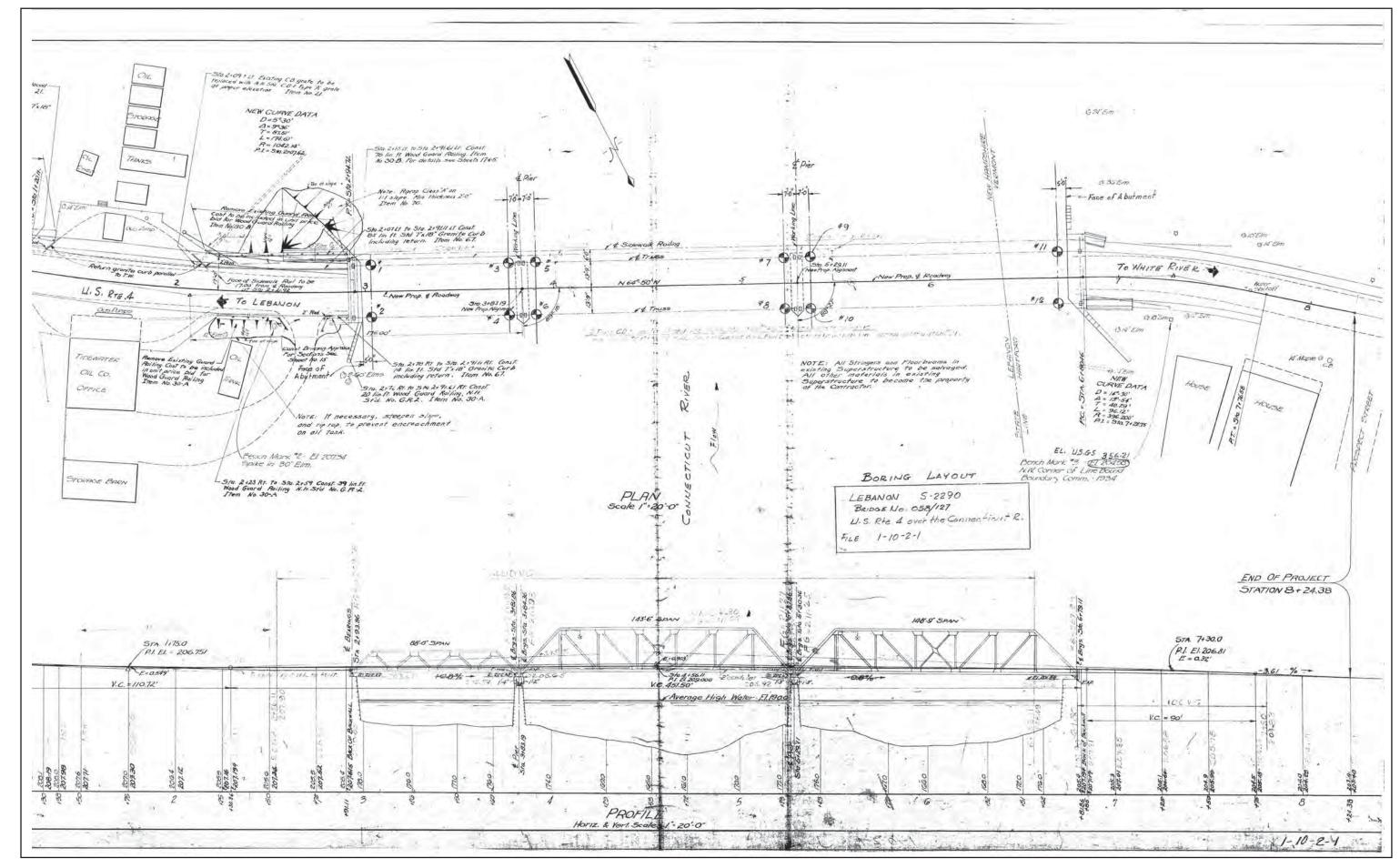


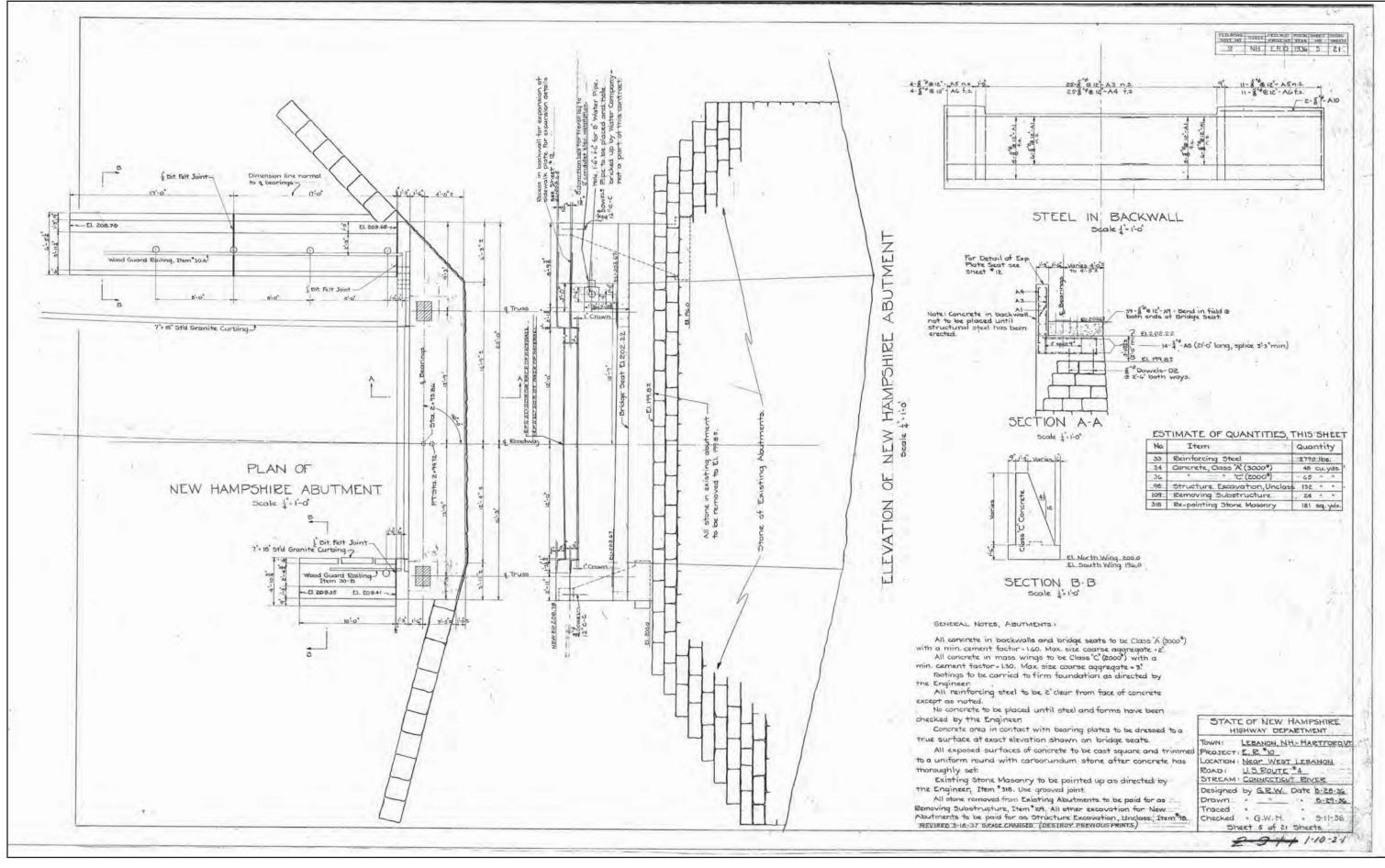


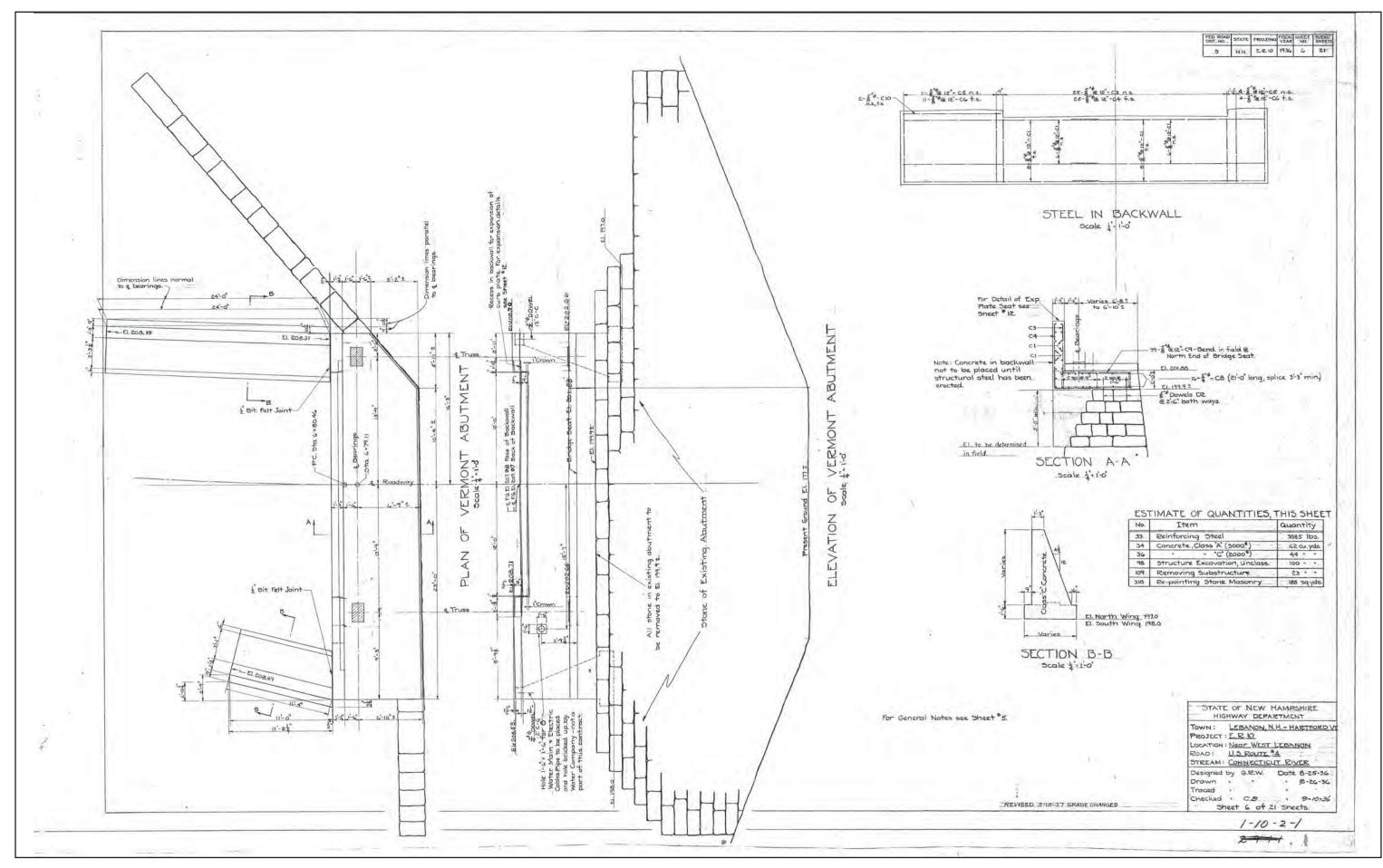


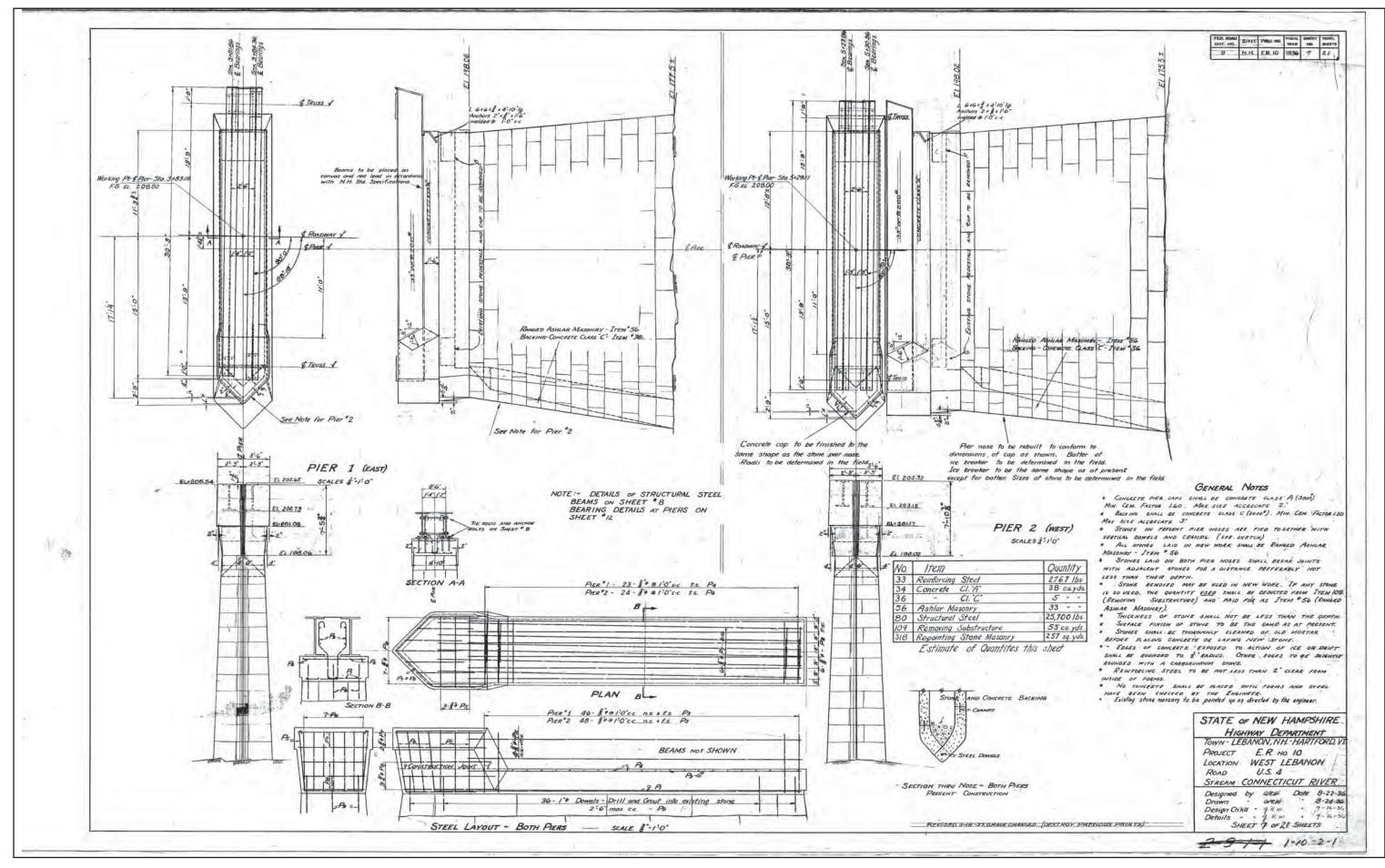


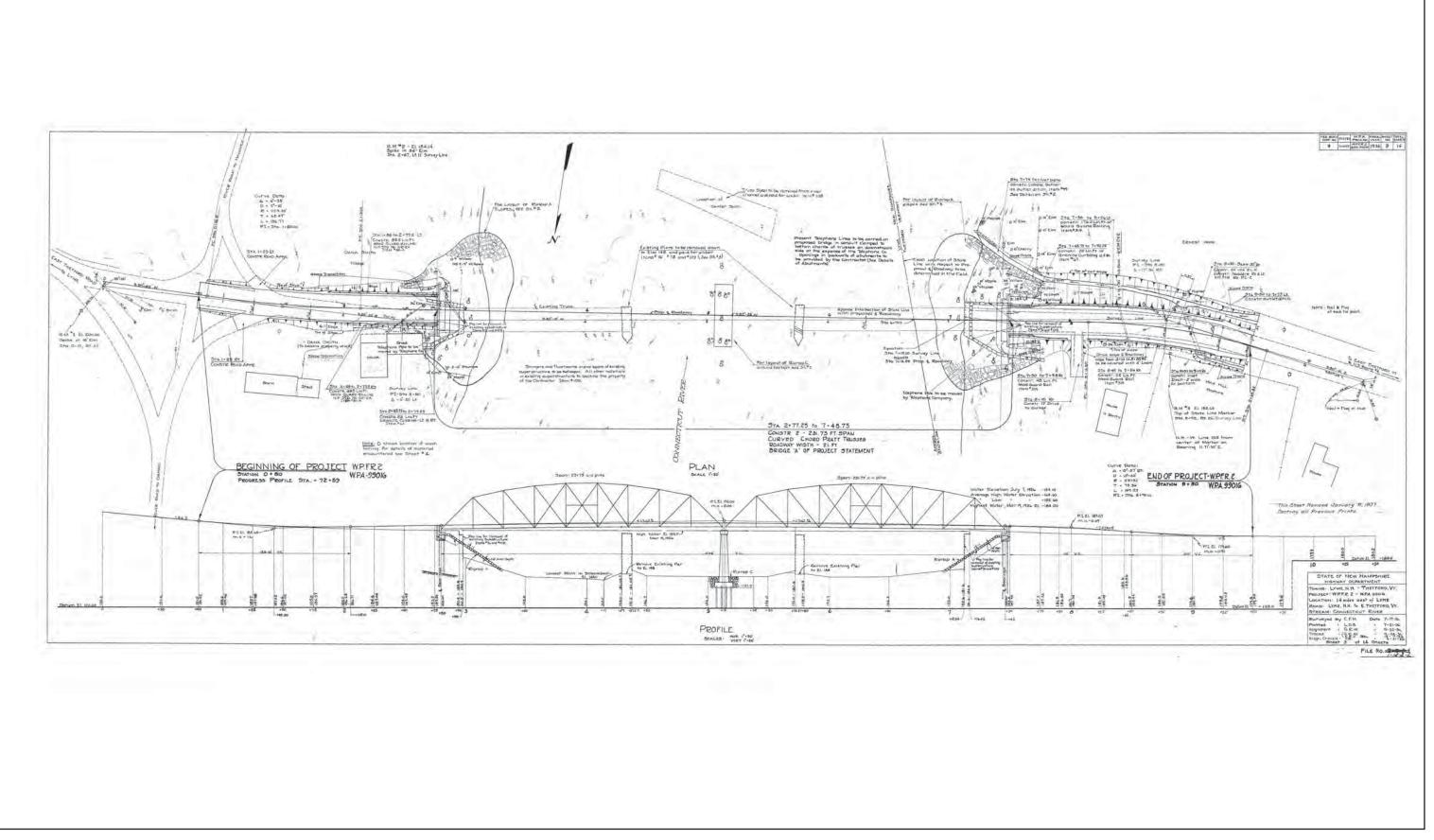


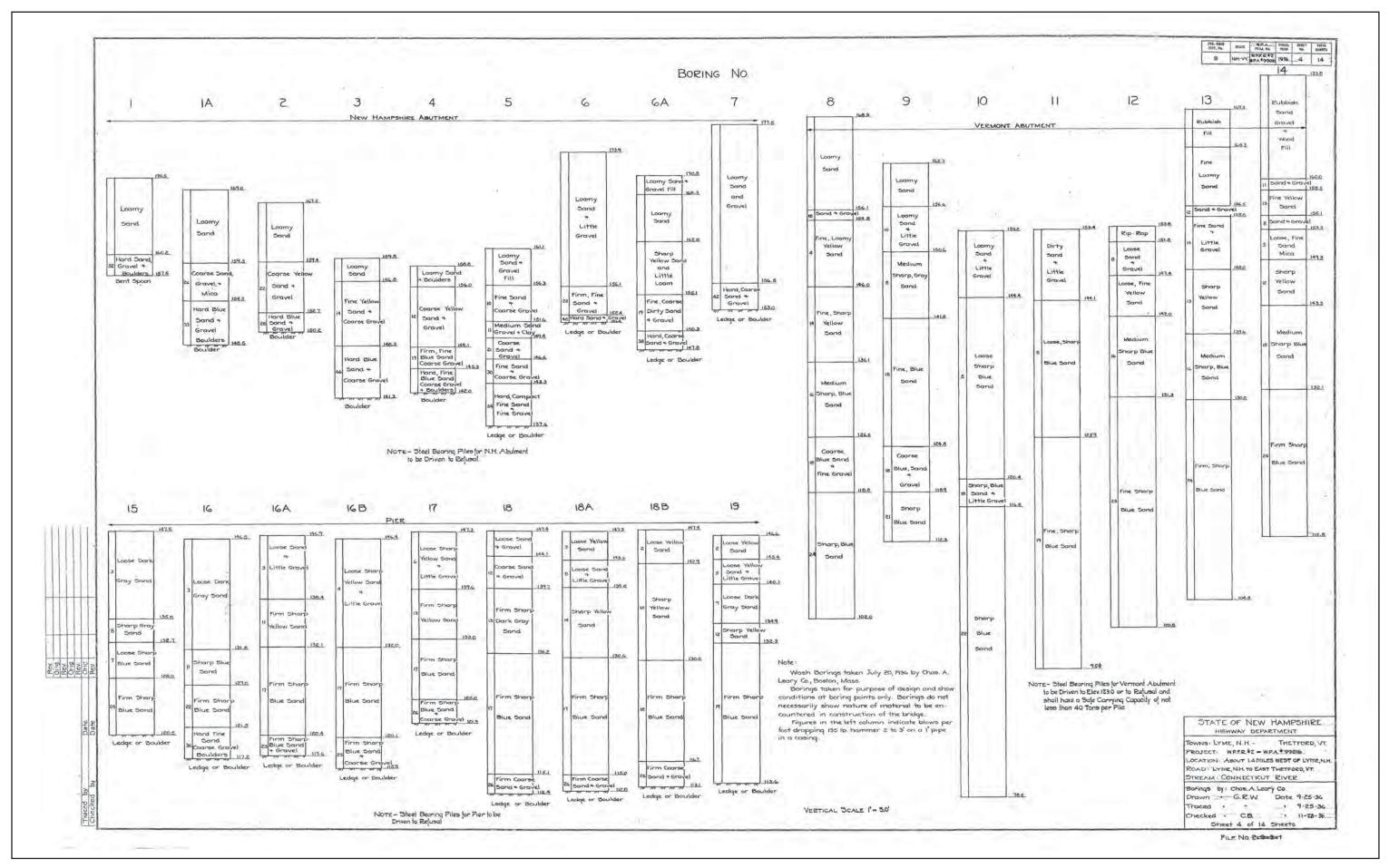


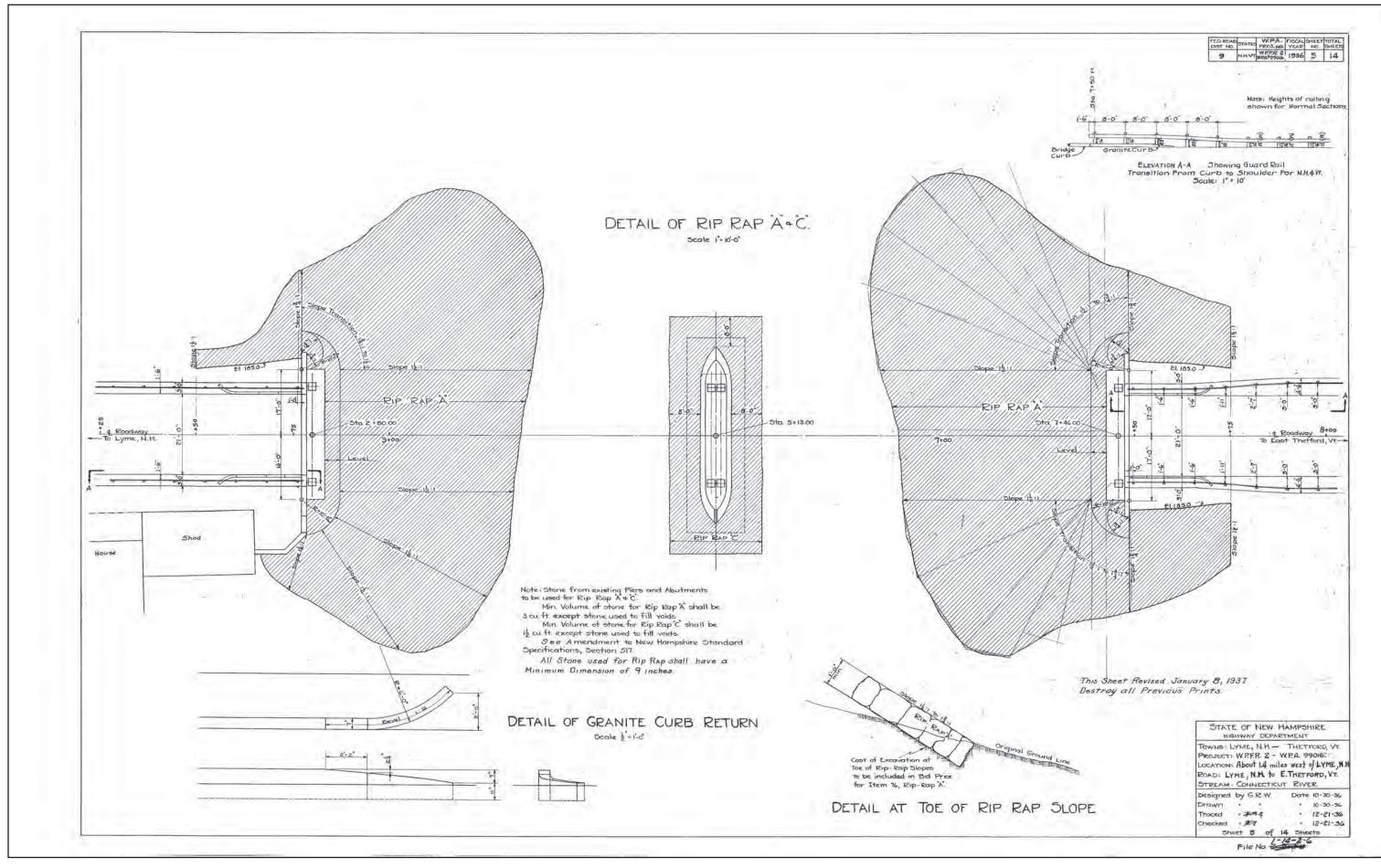


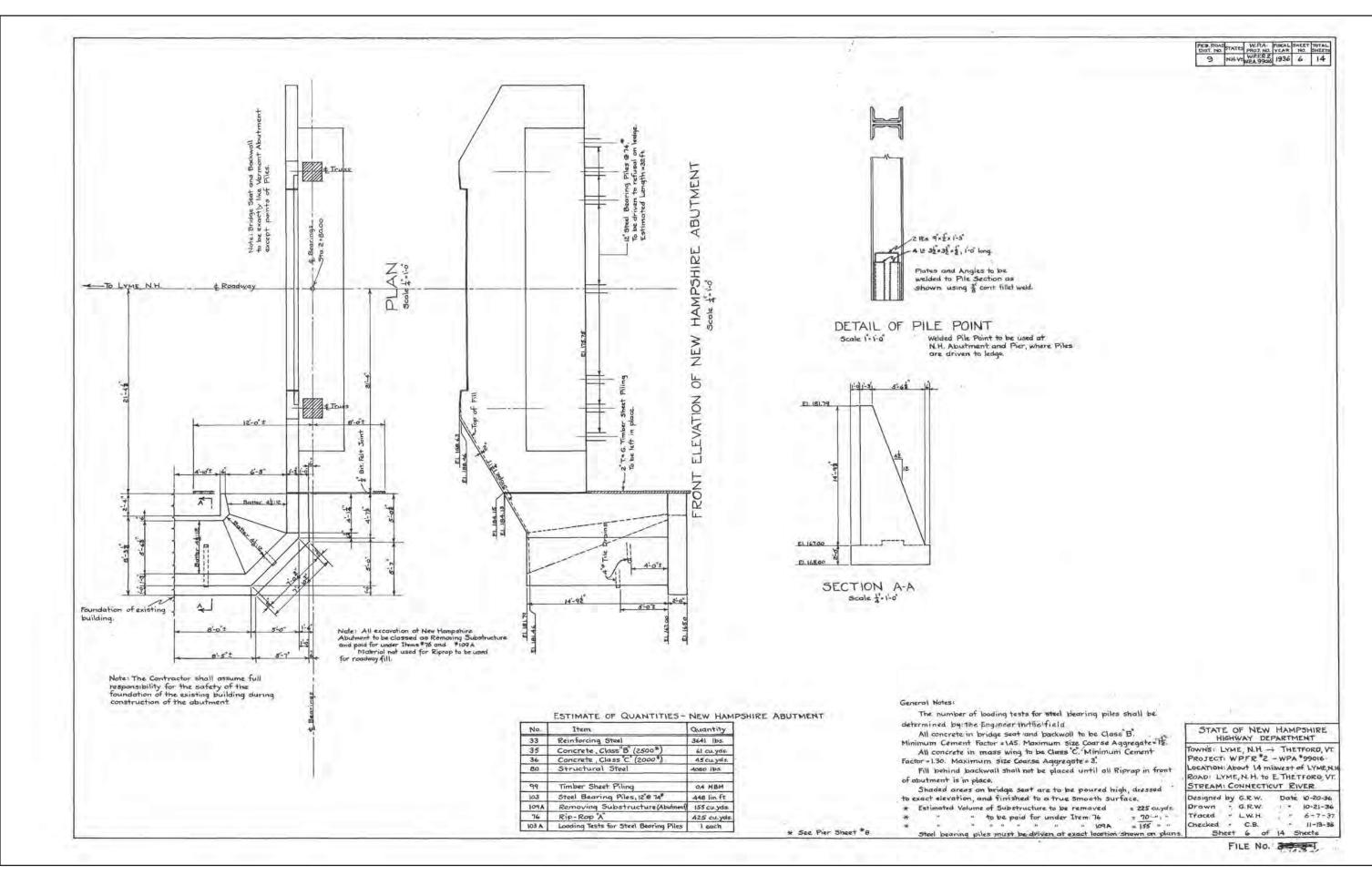




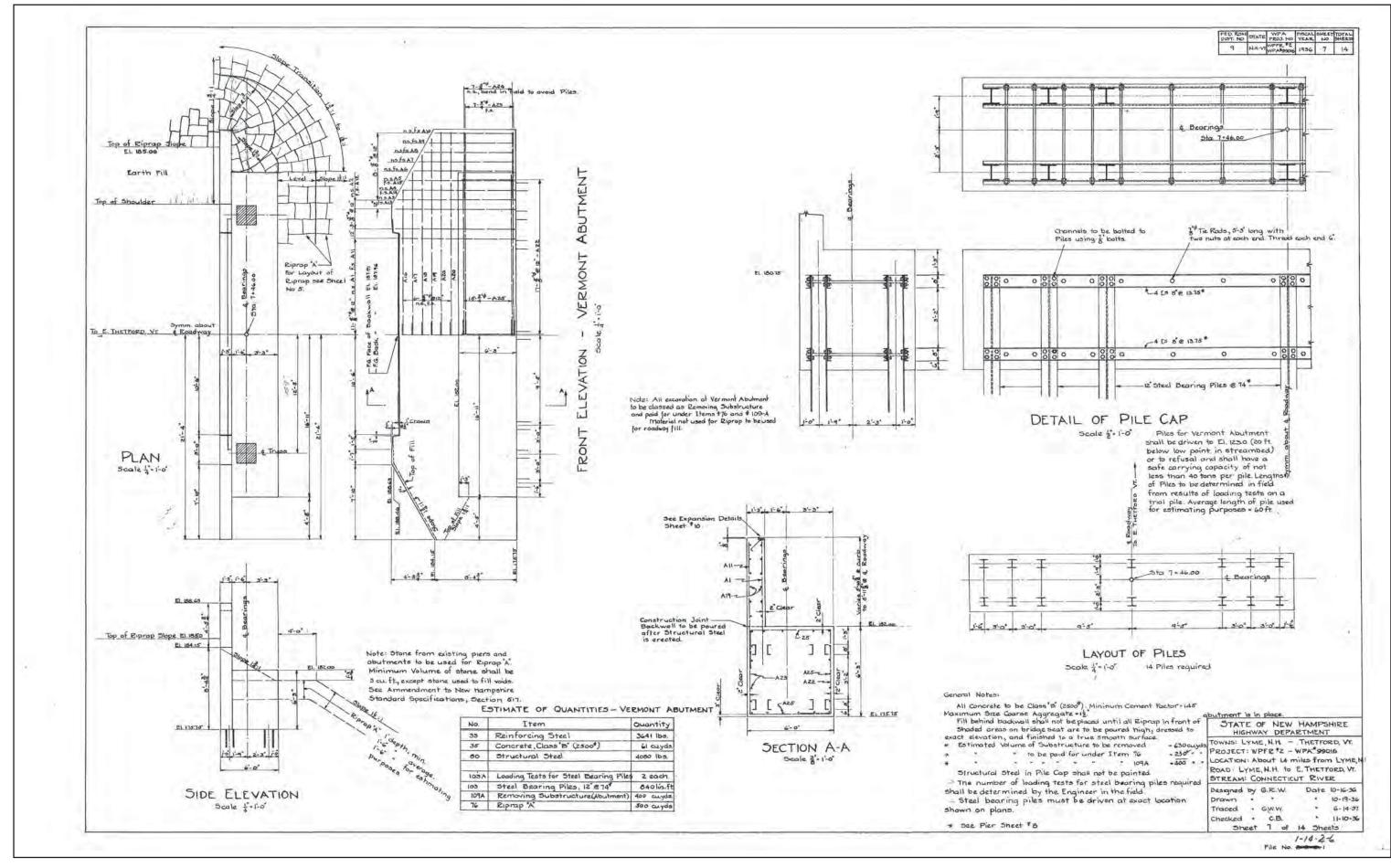


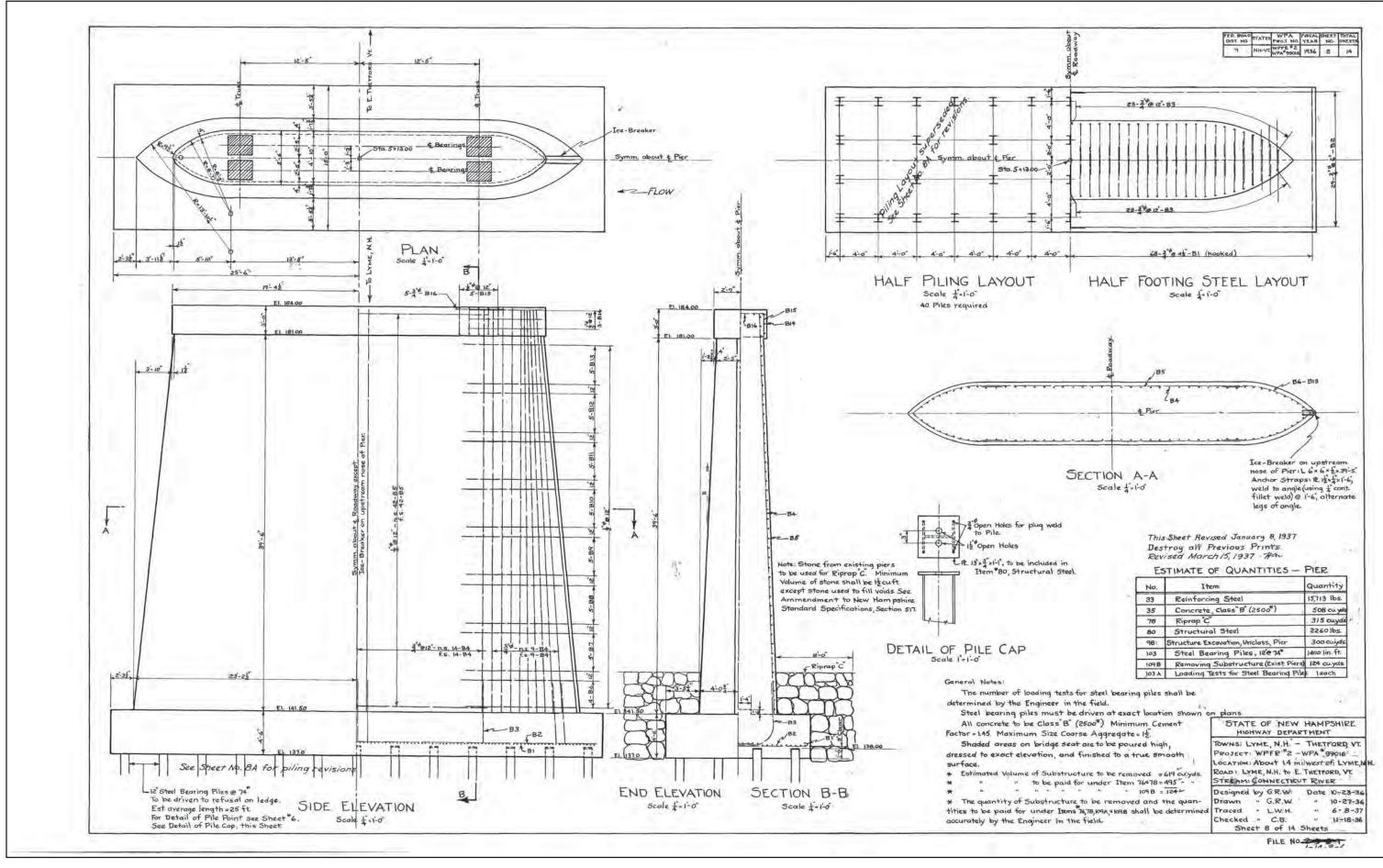


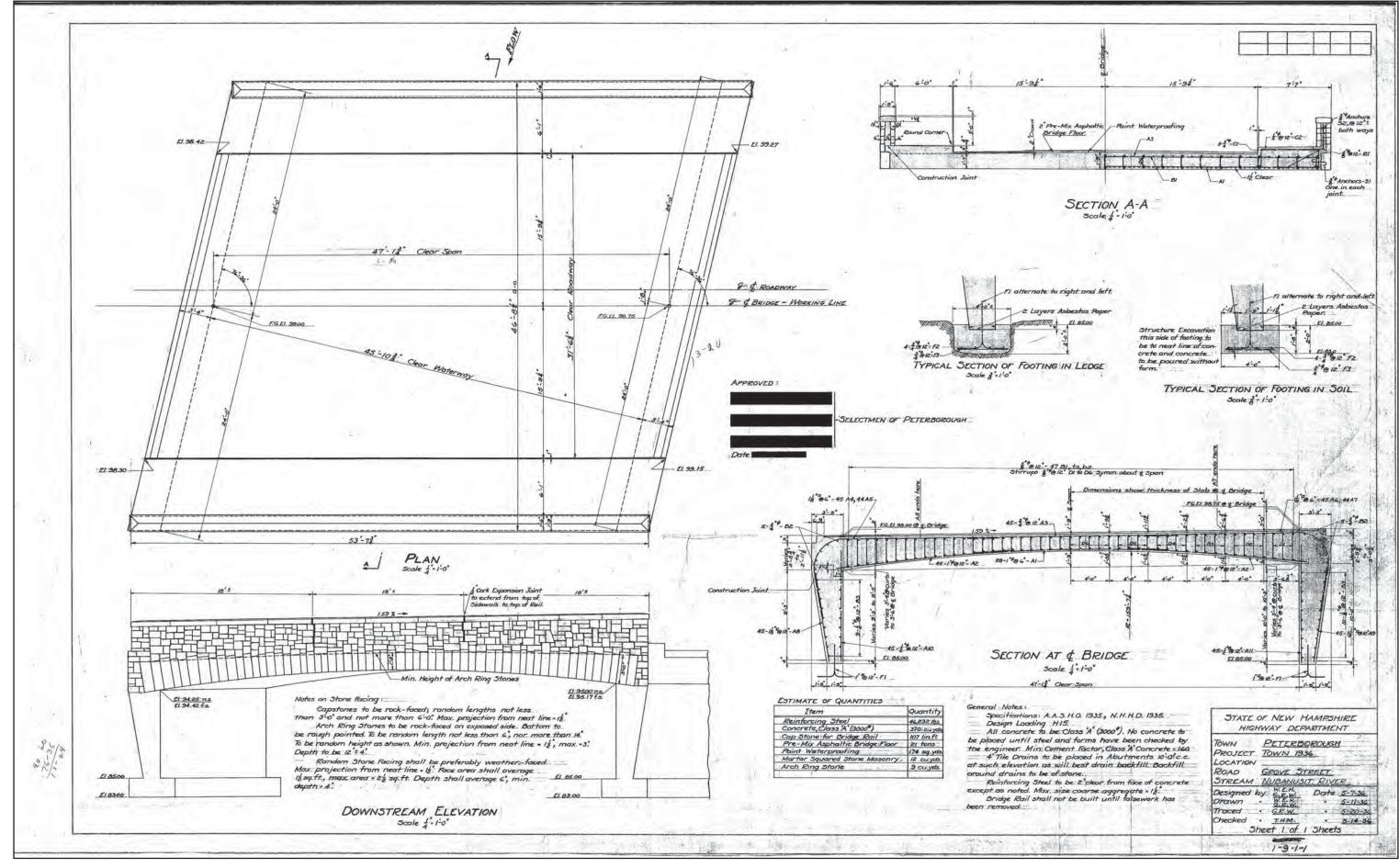


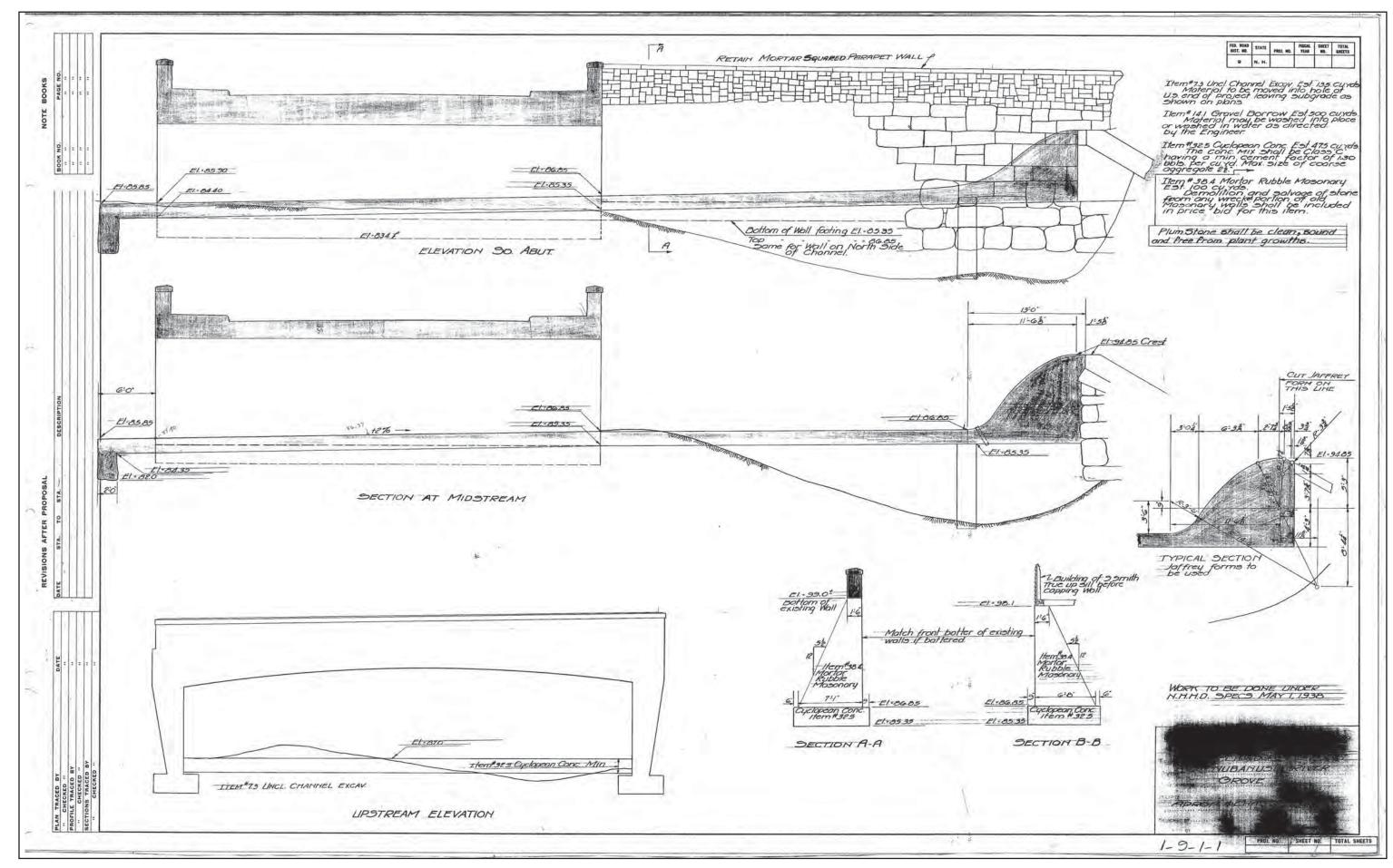


A-42









## INDEX OF SHEETS

SHEET NO 1 TITLE PAGE

- " 2 TYPICAL SECTION OF IMPROVEMENT
- " 3 PLAN AND PROFILE
- " 4 CROSS SECTIONS, .. 5-9 BRIDGE PLANS
- " 10 STANDARDS

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

## EMERGENCY RELIEF PROJECT NO - ERÓ SOUTH SIDE

SCALES | PROFILE, VERT: 1"=20'-0" HOR: 1"=20'-0" CROSS SECTION, VERT: 1"=5'-0" HOR: 1"=5'-0"

NOTE. This project to be constructed in accordance with standard specifications on file with the Bureau of Public Roads.

PROJECT ER6 KEY MAP Scale 42,500

### CONVENTIONAL SIGNS

STONE WALL . - TELEPHONE POLE UNFENCED PROPERTY.... TRAVELED WAY ..... GROUND ELEVATION .. RAILROADS .... RETAINING WALL ....

Plans drawn by G.R.W. Plans traced by .....

# TOWN OF PETERBOROUGH HILLSBORO COUNTY

LAYOUT SCALE 1"-20'-0"

APPROVED: WNO jeking CHIEF ENGINEER 7.6. Court DISTRICT ENGINEER, BUREAU OF PUBLIC RECOMMENDED FOR APPROVAL: CHIEF ENGINEER, BUREAU OF PUBLIC ROADS

1-13-3-2

STATE OF NEW HAMPSHIRE

PER BAAD STATE MGA BB. TEAM BB. SHEET TOTAL BB. 9 N. H. ERG 1 10

