

# I-93 WIDENING NORTHERN SEGMENT BRIDGE PORTION Manchester, NH

## CLIENT

State of New Hampshire  
Department of Transportation  
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## LOCATION

Route I-93  
Manchester, New Hampshire

## COST

Estimated Bridge Cost: \$4  
Million

## DESCRIPTION

CLD was responsible for the widening of three bridges and three culverts, and the construction of soundwalls, detention basins, and wildlife corridors for I-93 NB over Cohas Brook, Br. No. 187/134; I-93 NB over Bodwell Road, Br. No. 185/132; I-93 SB over Bodwell Road, Br. No. 185/131; I-93 NB over Cohas Brook Culvert, Br. No. 200/143; I-93 NB/I-293 WB over Cohas Brook Culvert, Br. No. 179/128; and I-293 EB/I-93 SB over Cohas Brook Culvert, Br. No. 179/125.



- ◆ Bodwell Road/Cohas Brook Bridges: The Southbound Bridge is to be widened by 16 feet on the low side (to west), while maintaining existing profile grade. The Northbound Bridge is to be widened by 12 feet on the low side (to east) while maintaining existing profile grade. The widening shall consist of constructing new stub abutments on piles attached to the existing abutments. Single column bents separate from the existing piers shall be built. New steel girders with cast-in-place concrete decks shall be erected to accommodate the widening.
- ◆ Southbound Soundwalls: An approximate 3,700 feet of soundwall was constructed under the previous 12159 project. This is a barrier-mounted system that was designed to accommodate the future widening of I-93, assuming that a new 12-foot travel lane and 10-foot curbed shoulder (no guardrail) would be constructed. When the widening under this contract is completed, the result will be an approximate 18-foot panel from the new curblines to the face of the existing soundwall.
- ◆ Cohas Brook Culverts: The 200/143 cast-in-place concrete culvert shall be lengthened approximately 75 feet to accommodate the highway widening. Based on the preferred alignment, the 179/128 and 179/125 culverts under the northbound and southbound barrels will have modifications to the headwalls to accommodate new slope work for the widening and no culvert widening is anticipated.

- Bridge/Culvert Widening
- Construction of Soundwalls
- Repaving of the New Widening
- Preliminary and Final Design
- Culvert Modifications to Headwalls