

**ALPINE CONSTRUCTION, LLC**

**PROPOSED SEQUENCE OF WORK FOR THE MIDDLEBURY-WEYBRIDGE BHO 1445 (33)**

**ORIGINAL: FEBRUARY 2, 2012**

**REVISED: FEBRUARY 14, 2012**

Once the primary shoring system is installed and ready to be loaded:

Re-Camber Bridge Sections

1. Block bottom chords to needle beams over entire length of bridge in five foot increments in the upstream downstream plane making sure to block all three bottom chords as shown on Drawing ALP-MW-02 sheet 3 of 4.
2. Remove siding in the Middlebury Span and locally across the bridge to facilitate installation of the upper shoring needle beams.
3. Remove localized floor beams and bottom timber x-braces to facilitate installation of secondary shoring towers. Then install secondary shoring.
4. When shoring towers are installed block to the arches as shown on Drawing ALP-MW-02 sheet 2 of 4 and Alpine sketches 2.
5. Install temporary vertical x-bracing as shown on Drawing ALP-MW-02 sheet 3 of 4 in a loose position to allow for bridge realignment (The vertical x-bracing is in a loose position while we are jacking the bridge to the desired camber when we get the desired camber we will tighten the vertical x-bracing).
6. Remove horizontal bolts and vertical rods securing the arch to the floor beams and king posts in the Middlebury Span and half of the center span.
7. Re-camber Middlebury Span starting at abutment 2 and proceeding incremental towards pier 2. Re-block chords at needle beams to desired camber position and tighten vertical x-bracing sequentially.

Rehabilitate Bridge - Starting from the Middlebury side of the bridge re-build from Abutment 2 to west side of Pier 2 (Middlebury Span 1).

1. Once the Middlebury span is in the desired camber; block king post to lower shoring system and block upper chord to secondary shoring and install clip angles.
2. Remove the rest of the floor beams and bottom chord x-bracing in Middlebury Span to a point just beyond pier 2 to allow for the installation of bottom chord members and lower lateral bracing at pier (Save designated floor beams and bottom X-bracing for later re-use). During the rehabilitation, temporary lateral bracing between bottom chords will be installed as shown in sketch 4.
3. Remove bottom chord (maximum 2 lengths removal before replacement with new chord) and king posts designated for removal (maximum 2 king posts removed at any time in a truss). For example on drawing 32 of 66 bottom chord plan we will remove 33.5' of the existing outside chord and 24.5' of the inside chord when they are attached we will then remove the next section and so on.
4. Install replacement king posts and new bottom chords, locally notch upper chords that are being replaced to facilitate the installation of the new king posts.
5. Install king post diagonal bracing designated for replacement and reinstall diagonal bracing removed to facilitate new king post installation.