

LEIGH

**T. BUCK CONSTRUCTION
ER BHF 010-1(44)
WOODFORD, VT
DELAUNCH AND DISASSEMBLY PROCEDURES
NOVEMBER 2012**

PROJECT:

The bridge to be delawnched and disassembled is a 700XS Acrow Panel Bridge in Woodford, VT with one clear span of 200 ft. The truss construction is Triple Double Reinforced Three Heavy (TDR3H). The roadway width curb to curb is 24 ft. The deck is an orthotropic steel deck with an epoxy aggregate anti-skid surface.

OVERVIEW OF REMOVAL:

The bridge will be pulled back onto rollers behind the West Abutment. Based on input from the customer, the area behind the centerline of rocking rollers is to be a minimum of 240ft for the bridge disassembly. The bridge will be delawnched using a crane assisted delawnch utilizing a 40 ft Triple Single (TS) Nose and a 10 ft DS Tail. This method requires attaching a crane to the East End of the nose to provide support during the initial pull back until the bridge is safely pulled back onto the rollers behind the West Abutment. Roadway decks will be added to the tail as counterweight (See Launch Sequence Diagram). The deck and guardrail are to be removed prior the delawnching of the bridge.

BRIDGE WEIGHTS:

200 ft TDR3H span without deck	300 kips
200 ft TDR3H span with deck	425 kips
40 ft TS Nose	32 kips
10 ft DS Tail	7 kips

BASIC EQUIPMENT:

A small rough terrain crane (25 to 35 ton) will be needed for general disassembly. The heaviest component pick will be 7,000 lbs. **NOTE: A crane of adequate capacity will be required for the delawnching of the bridge.** Basic steel worker hand tools, including pinch bars, 3 LB sledge hammers, pry bars, 1 5/8", 2" and 1 1/16" thin-walled, deep wellled sockets with a 3/4" drive, 6" drive extension, 3/4" universal (swivel), two 4-ton come-alongs or two chain falls, 4-way chain with 3/8" chain slip hooks for picking deck panels (1,500 lbs each), three to four 25-ton jacks, high quality 6 * 6 and 12 * 12 timber dunage, nylon straps or cable for lifting the parts during disassembly, drift pins etc. A compressor and impact wrenches capable of relieving the 650 ft-lbs of bolt torque will be required.