



- NOTES:**
1. STRESSING AND DEAD ENDS CAN BE REVERSED.
 2. GROUT VENTS SHALL BE INSTALLED AT THE CENTER OF THE PANELS SHOWN ABOVE.
 3. GROUT FROM LOW END.

POST-TENSIONING LAYOUT

STRESSING AND ELONGATION SCHEDULE

Area of strand = 0.217 in²
 Modulus of elasticity = 28,500 ksi
 Angular friction coefficient = 0.1500 /radian
 Wobble friction coefficient = 0.0008 rad/ft
 Length inside jack = 24.00 in

LOCATION	TENDON	STRESSING LENGTH (feet)	No. OF STRESSING ENDS	No. OF STRANDS PER TENDON (0.6" DIAM.)	20% OF REQUIRED JACKING FORCE PER STRAND (kips)	100% OF REQUIRED JACKING FORCE PER STRAND (kips)	ELONGATION BETWEEN WEDGES (inch)	TARGET ELONGATION	
								BEFORE LOCK-OFF (inch)	AFTER LOCK-OFF (inch)
Deck	T1-T19	175.50	1	4	8.78	43.9	13.96	11.40	11.02
Deck	T20	151.50	1	4	8.78	43.9	12.17	9.97	9.59

- NOTES:**
1. **TARGET ELONGATION:**
 Target elongation is that elongation as determined by theoretical calculation that should occur when stressing from 20% to 100% of the total required jacking force.
 a. First End Pull:
 BEFORE LOCK-OFF: (Elongation between wedges + Elongation inside jack + Anchor set, DE) x 0.80
 AFTER LOCK-OFF: (Elongation between wedges + Anchor Set, DE) x 0.80 - Anchor Set, LE
 2. **Elongation between wedges is the elongation before anchor set and comes from stressing calcs.**
 3. **Anchor sets: LE = 0.250 in, DE = 0.125 IN**
 4. **STRESSING PROCEDURE:**
 - Stress tendon from one end to 20% and make a reference mark.
 - Stress tendon from same end to 100%, and measure and record elongation.

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 2/14/18

NOTATION

T1 - BTRI [Signature]

TENI [Signature]

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.



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CONTRACTOR: CONSTRUCTIVE SERVICES, INC.	REV. 0	DATE 12/19/17	ISSUE DESCRIPTION FOR APPROVAL	NAME SD	CHKD. EZ	JOB NUMBER J118030
PROJECT: BRIDGE 68 ON VT ROUTE 14, TOWN OF EAST MONTPELIER	REV. 1	DATE 01/29/18	ISSUE DESCRIPTION FOR APPROVAL	NAME IT	CHKD. EZ	JOB NUMBER J118030
DECK POST - TENSIONING LAYOUT, STRESSING SCHEDULE AND SEQUENCE			SCALE NTS		DRAWING NUMBER: PT - 2	
DATE: 12/18/17	DWG: SD	CHK: EZ	APP: EZ	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405		
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