



- ABUTMENT & WING WALL GENERAL NOTES**
- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
  - MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 3,500 PSI (UNLESS NOTED OTHERWISE).
  - REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL 1 (EPOXY COATED) OR LEVEL 1 (BLACK STEEL) (AS NOTED ON SHOP DRAWINGS).
  - SEE INDIVIDUAL ABUTMENT DRAWINGS FOR CONCRETE FINISHES AND EXTENT OF WATERPROOF SEALER APPLICATION.
  - SEE INDIVIDUAL WING WALL DRAWINGS FOR CONCRETE FINISHES AND EXTENT OF WATERPROOF SEALER APPLICATION.
  - PRECAST CONCRETE UNITS SHALL BE HANDLED AND ERECTED USING THE LIFTING INSERTS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. NON-PRESTRESSED UNITS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 6th POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
  - MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.  
 DESIGN MIX:  
 WING WALLS: J.P.C. BRIDGE MIX #445M8CC  
 ABUTMENTS: J.P.C. BRIDGE MIX #445M8CC
  - QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
  - CURING METHOD: AS SOON AS THE TOP OF PRECAST CONCRETE UNITS ARE FINISHED, A COVER OF POLY WILL BE PLACED OVER THE UNIT. NATURAL CURE WITH NO EXTERNAL HEAT APPLIED.
  - ABUTMENT POST-TENSIONING SEQUENCE:  
 A. ERECT PRECAST CONCRETE ABUTMENTS, AND POST-TENSION CENTER TENDON TO APPROXIMATELY 5,000 LBS.  
 B. EPOXY SHEAR KEY (AS REQUIRED) (BY OTHERS).  
 C. ONCE SHEAR KEY GROUT HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI; POST-TENSION TENDONS TO 32,000 LBS.

**1** PRECAST ABUTMENT & WING WALL LAYOUT  
 F1  
 1/8" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 12, 2015**  
 and Checked for  
**CONFORMANCE**  
 BY: **Todd A. Sumner** DATE: **05/13/2015**

**SUBMITTAL REVIEW**

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED  
 RESUBMITTAL NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

BY: *Todd A. Sumner*  
 DATE: *5/12/2015*

4-27-15 GENERAL REVISIONS

APPROVAL STAMP:

<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 OISE ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-8010		<b>J.A. McDONALD, INC.</b> CONTRACTOR LYNDON CENTER, VERMONT	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON		DATE: FEB. 6, 2015	SCALE: NOTED
TOWN OF LINCOLN TH 1 (RURAL MAJOR COLLECTOR) OVER NEW HAVEN RIVER BRIDGE NO.: 19 PROJECT NO.: BRP 0188 (8)		CHKD: M.W. DFTM: B.L.	JOB NO: 23459-015
PRECAST ABUTMENT & WING WALL LAYOUT		DWG. NO:	<b>F1</b>