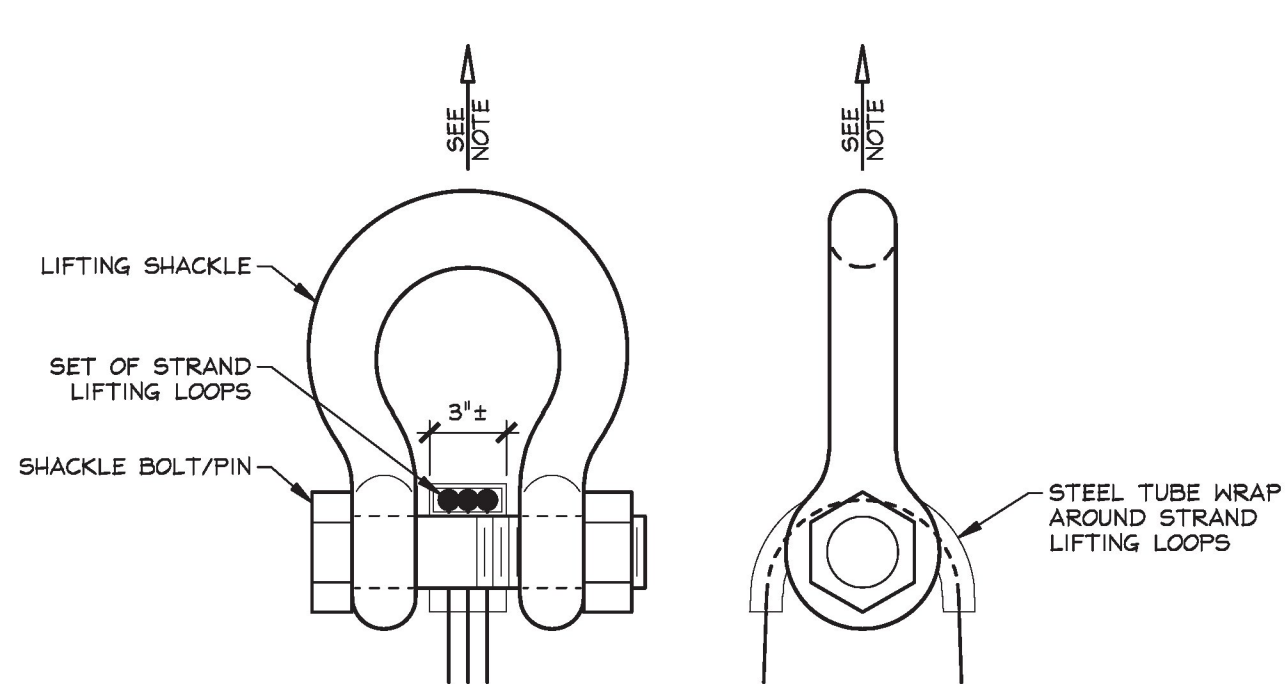


A ABUTMENT BEARING DETAILS  
F3  
1/4" = 1'-0"

GRANULAR BACKFILL FOR SUPERSTRUCTURES:  
TO MINIMIZE THE POTENTIAL FOR CRACKING AND  
OVERTURNING OF THE PRECAST ABUTMENT CAP  
DURING CONSTRUCTION, GRANULAR BACKFILL FOR  
STRUCTURES SHALL BE PLACED AND COMPACTED  
PER VTAOT SPECIFICATIONS TO THE BOTTOM OF  
ABUTMENT CAP ELEVATION PRIOR TO SETTING  
THE PRECAST ABUTMENT CAP.

ERECTOR NOTE:  
PRECAST DETAILING REQUIRES  
INSTALLATION OF CH-AB2 PRIOR  
TO CH-AB1



ABUTMENT NOTE: ABUTMENTS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL AND VERTICAL FORCES ARE APPLIED TO EACH SET OF LIFTING LOOPS AT EACH END OF THE ABUTMENT. SHACKLE BOLT/PIN SHALL BE PLACED UNDER LIFT LOOPS AS SHOWN. DESIGN AND CONFIGURATION OF RIGGING BY PURCHASER.

RETAINING WALL NOTE: RETAINING WALLS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH SET OF LIFTING LOOPS AT EACH END OF THE RETAINING WALL. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. SHACKLE BOLT/PIN SHALL BE PLACED UNDER LIFT LOOPS AS SHOWN. DESIGN AND CONFIGURATION OF RIGGING BY PURCHASER.

N.T.S.

**RETAINING WALL GENERAL NOTES**

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH FOR HANDLING SHALL BE 3,500 PSI (UNLESS NOTED OTHERWISE).
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31), AND SHALL BE EPOXY COATED, (AS NOTED ON SHOP DRAWINGS).
- THE TOP OF RETAINING WALLS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- RETAINING WALLS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH OF THE LIFTING LOOPS AT EACH END OF THE WALL. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS. SEE DETAIL, THIS SHEET. ABUTMENTS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS AS NOTED ON INDIVIDUAL ABUTMENT DETAIL DRAWINGS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC. LIFTING LOOP POCKETS TO BE GROUDED AFTER INSTALLATION (BY OTHERS).
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P540.02 AND P540.05 RESPECTIVELY.  
DESIGN MIX: J.P.C. BRIDGE MIX #445M5CC  
AIR 5% - 9%  
SPREAD 20' - 28'  
(APPROVAL DATE FEB. 22, 2017)
- QUALITY CONTROL AND REPAIR 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 THE RETAINING WALLS ARE FINISHED A COVER OF POLY WILL BE PLACED OVER THE UNITS IN A MANNER THAT WILL NOT DISTURB THE FINISH. THE TEMPERATURE SHALL BE RECORDED BY AUTOMATIC SENSOR INSTRUMENT ON GRAPH CHART AND WILL CONTINUE UNTIL RELEASE STRENGTH IS ACHIEVED. THE CHART SHALL BE MARKED AND PROVIDED TO THE QA INSPECTOR. THE UNITS SHALL NOT BE EXPOSED TO A TEMPERATURE DIFFERENTIAL BETWEEN THE SURFACE OF THE HARDENED CONCRETE AND THE AMBIENT STORAGE ENVIRONMENT OF GREATER THAN 40°F AT ANY TIME. UNITS SHALL NOT BE EXPOSED TO AMBIENT TEMPERATURES LESS THAN 36°F UNTIL THE DESIGN STRENGTH IS ACHIEVED.

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- CONSTRUCTION JOINT SURFACES SHALL BE ROUGHENED TO PROVIDE AN 1/8" AMPLITUDE EXPOSED AGGREGATE PROFILE. FABRICATOR MAY UTILIZE A SURFACE RETARDER WITH WATER BLAST, SAND BLAST, OR A COMBINATION OF BOTH TO ACHIEVE THE DESIRED SHEAR KEY SURFACE FINISH.

- 3-27-17 REVISED AS NOTED
- 2-28-17 ADD RETAINING WALLS
- 2-22-17 REVISED AS NOTED

APPROVAL STAMP:  
Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY TYlin OK'D BY TYlin  
March 28, 2017  
RESUBMIT No Approved AsNoted  
By Kristin Higgins DATE 3/31/2017

J.P. CARRARA & SONS INC.  
Precast & Prestress Manufacturer  
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF ORANGE

TOWN OF CHELSEA  
VT ROUTE 110, RURAL MAJOR COLLECTOR  
BRIDGE NO.: 9 PROJECT NO.: BHF 0169(9)

PRECAST ABUTMENT NO. 1  
PLAN, ELEVATION & BEARING DETAILS

**T.Y. LIN INTERNATIONAL**  
THE STAMPED DOCUMENTS ARE HEREBY:  
APPROVED  
X APPROVED AS NOTED  
REVISE AND RESUBMIT  
SEE TRANSMITTAL FOR ADDITIONAL INFORMATION AS APPLICABLE.  
THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.  
JOSH OLUND March 29, 2017  
REVIEWER DATE

CPM CONSTRUCTORS  
CONTRACTOR  
FREEPORT, MAINE

DATE: NOV. 29, 2016  
SCALE: NOTED  
CHKD: M.W. DFTM: B.L.  
JOB NO: 23505-016  
DWG. NO: F3  
BRIDGE 9