

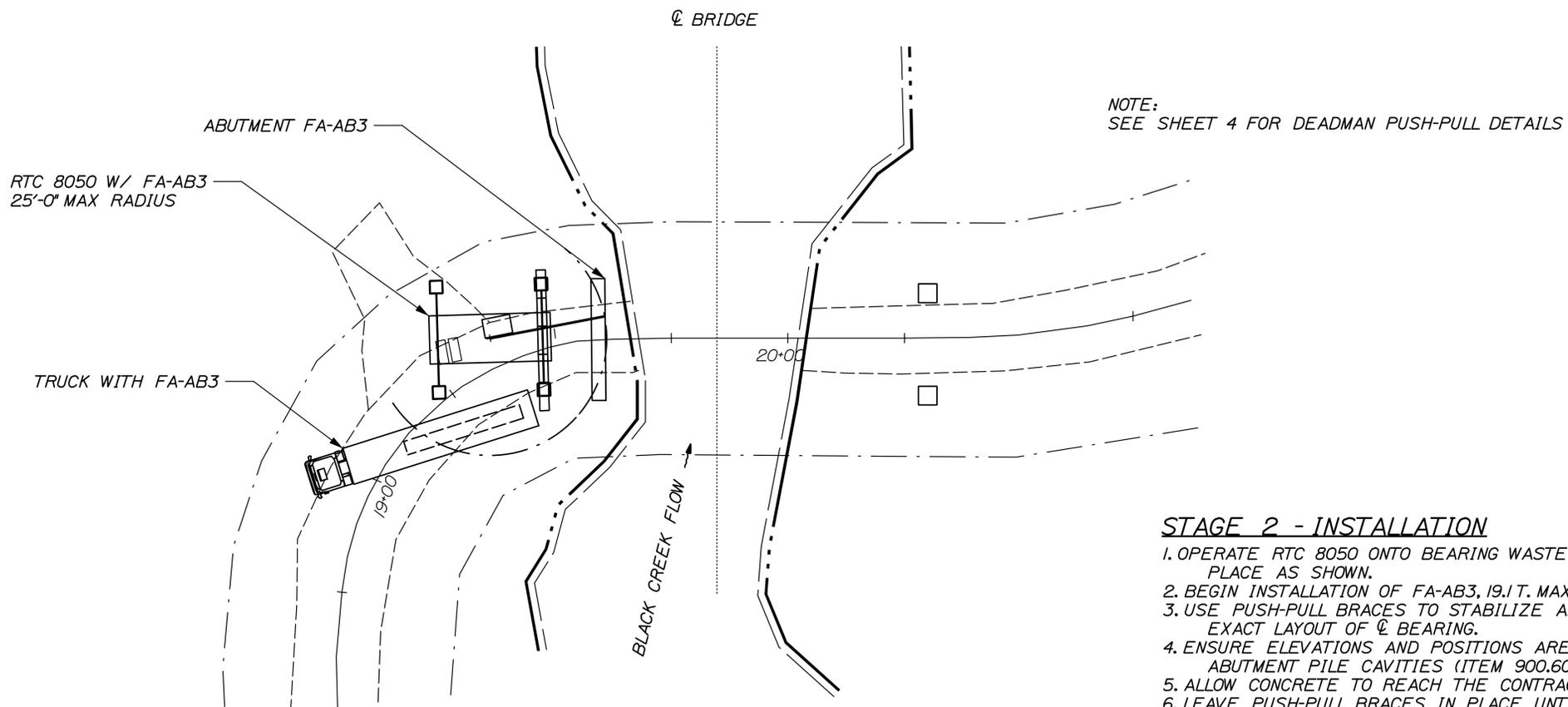
NOTE:  
CRANE MATS NOT SHOWN FOR CLARITY

BEARING PLATES AND PILES POSITIONED AS REQ'D IN FIELD  
TO ALLOW A 50'-0" DISTANCE FROM  $\phi$  OF PROPOSED BRIDGE  
TO  $\phi$  HLI50 CRANE ROTATION

4'x4'x1" STEEL PLATE  
BEARING ON HP 14x73  
PILE DRIVEN TO BEDROCK

**STAGE 1 - INSTALL TEMPORARY BEARING PLATFORMS**

1. ONCE SITE PREPARATION IS COMPLETE AND PILES ARE DRIVEN, BEGIN INSTALLATION OF BEARING WASTE BLOCKS ON ABUTMENT #1 SIDE. PLACE CRANE MATS THE ENTIRE LENGTH OF THE WASTE BLOCK BEARING PLATFORM.
2. ENSURE ELEVATION AND POSITION OF WASTE BLOCKS ARE APPROPRIATE FOR PLACEMENT OF ABUTMENT FA-AB3. MAXIMUM RADIUS OF RTC 8050 WITH ABUTMENT FA-AB3 PIECES IS 25 FEET.
3. ONCE PILES ARE INSTALLED, BACKFILL EXCAVATION TO ENABLE RTC 8050 TO DRIVE ONTO BEARING WASTE BLOCKS.
4. DRIVE HP 14x73 PILES ON ABUTMENT FA-AB4 SIDE AND INSTALL 4'x4'x1" BEARING STEEL PLATES.
5. ENSURE LOCATIONS OF STEEL BEARING PLATES APPROPRIATE FOR PLACEMENT OF ABUTMENT FA-AB4 AND PRECAST CONCRETE SLABS.  $\phi$  ROTATION OF HLI50 TO BE 50'-0" FROM  $\phi$  PROPOSED BRIDGE.
6. BACKFILL TO THE STEEL BEARING PLATES TO ALLOW HLI50 TO PLACE REAR OUTRIGGERS.
7. THE RESIDENT ENGINEER SHALL VERIFY THE STABILITY OF TEMPORARY BEARING PLATFORMS.

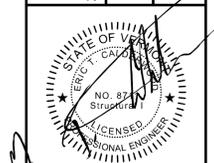


NOTE:  
SEE SHEET 4 FOR DEADMAN PUSH-PULL DETAILS

**STAGE 2 - INSTALLATION**

1. OPERATE RTC 8050 ONTO BEARING WASTE BLOCKS AND DRIVE TRUCK WITH ABUTMENT FA-AB3 INTO PLACE AS SHOWN.
2. BEGIN INSTALLATION OF FA-AB3, 19.1T. MAX RADIUS = 25 FEET
3. USE PUSH-PULL BRACES TO STABILIZE ABUTMENT AND TO ENSURE ABUTMENT IS PLUMB. VERIFY EXACT LAYOUT OF  $\phi$  BEARING.
4. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
5. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
6. LEAVE PUSH-PULL BRACES IN PLACE UNTIL PRESTRESSED SLABS CONNECTED.

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STRUCTURAL ENGINEERING • DESIGNING SERVICES  
222 RIVER RD. RICHMOND, ME 04357 PH: (207) 737-2007 FAX: (207) 737-2008  
PREPARED FOR:  
**A.L. ST. ONGE CONTRACTOR, INC**  
VTAOT PROJ. NUMBER BRO-1448(41)  
CEE 38-MI-15



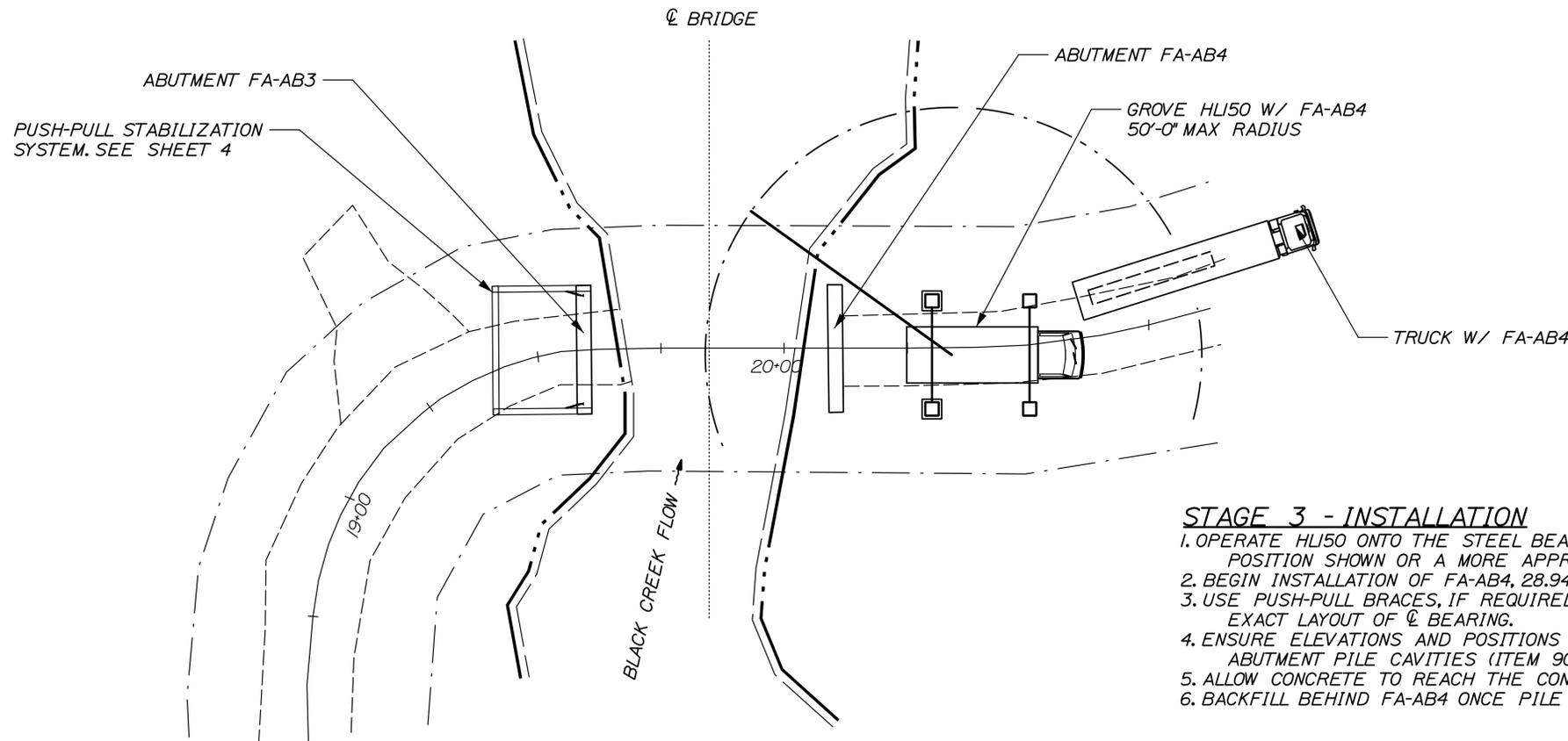
P.E. NUMBER  
APR 2015  
DATE

DATE	4/15	4/15
BY	TEPA	ETC
DESIGN-DETAILED		
CHECKED-REVIEWED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

**FAIRFIELD-VT ELM BROOK RD  
OVER BLACK CREEK  
ASSEMBLY PLAN**

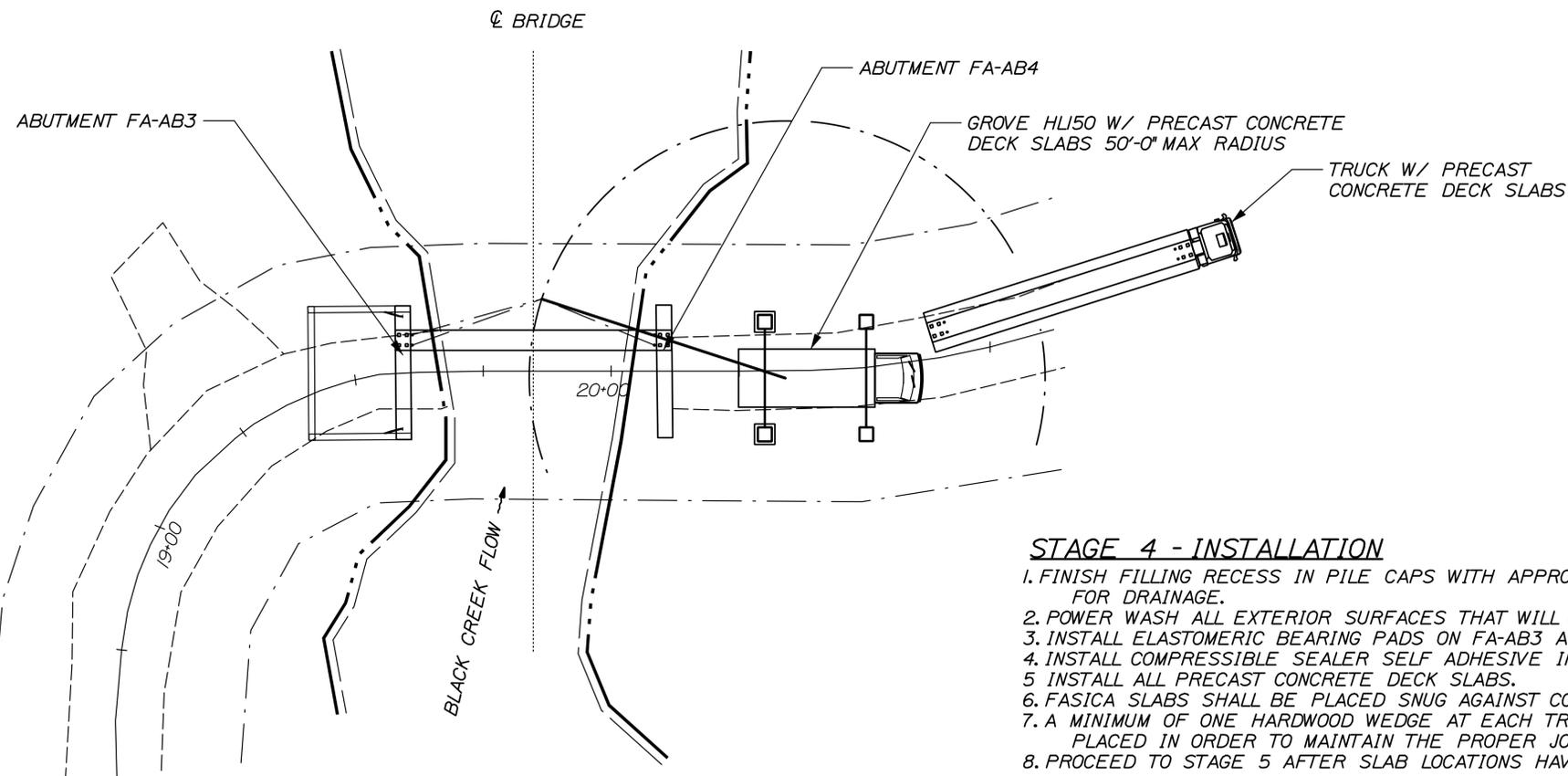
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**STAGE 3 - INSTALLATION**

1. OPERATE HLI50 ONTO THE STEEL BEARING PLATES AND POSITION THE TRUCK WITH FA-AB4 INTO THE POSITION SHOWN OR A MORE APPROPRIATE POSITION AS DETERMINED BY THE RESIDENT ENGINEER.
2. BEGIN INSTALLATION OF FA-AB4, 28.94 T. MAX RADIUS = 50 FEET
3. USE PUSH-PULL BRACES, IF REQUIRED, TO ENSURE ABUTMENT IS PLUMB, AND TO VERIFY EXACT LAYOUT OF  $\phi$  BEARING.
4. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
5. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
6. BACKFILL BEHIND FA-AB4 ONCE PILE CAVITY CONCRETE HAS ATTAINED 3500 PSI COMPRESSIVE STRENGTH.



**STAGE 4 - INSTALLATION**

1. FINISH FILLING RECESS IN PILE CAPS WITH APPROVED GROUT - FINISH TOP WITH PROPER GRADE FOR DRAINAGE.
2. POWER WASH ALL EXTERIOR SURFACES THAT WILL COME INTO CONTACT WITH GROUT.
3. INSTALL ELASTOMERIC BEARING PADS ON FA-AB3 AND FA-AB4.
4. INSTALL COMPRESSIBLE SEALER SELF ADHESIVE IN POST TENSIONING SLEEVES IN DECK SLABS.
5. INSTALL ALL PRECAST CONCRETE DECK SLABS.
6. FASICA SLABS SHALL BE PLACED SNUG AGAINST CORK ON INTERIOR OF CHEEKWALL.
7. A MINIMUM OF ONE HARDWOOD WEDGE AT EACH TRANSVERSE POST-TENSIONING LOCATION SHALL BE PLACED IN ORDER TO MAINTAIN THE PROPER JOINT OPENING.
8. PROCEED TO STAGE 5 AFTER SLAB LOCATIONS HAVE BEEN VERIFIED BY THE RESIDENT ENGINEER.

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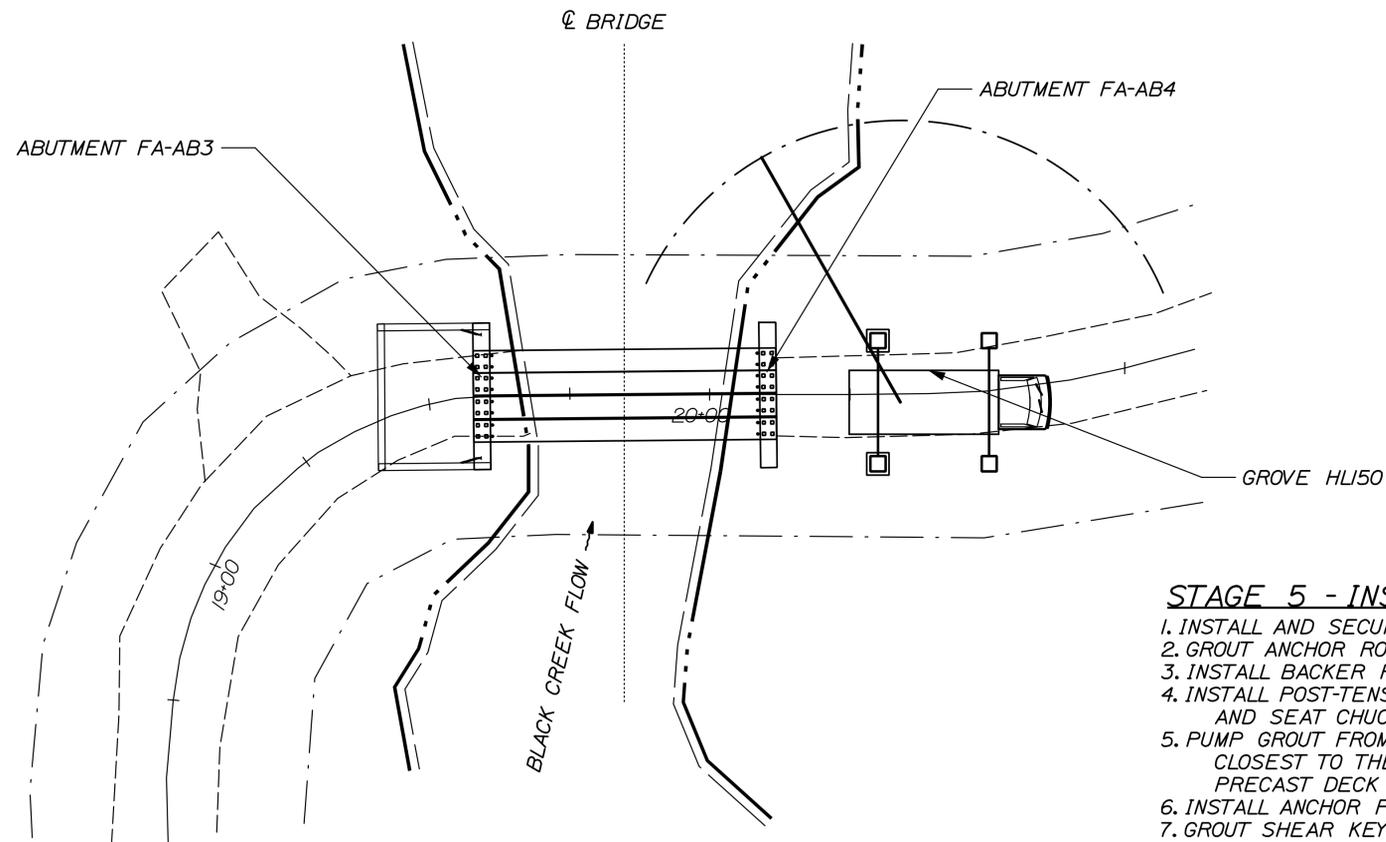
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**FAIRFIELD-VT ELM BROOK RD  
 OVER BLACK CREEK  
 ASSEMBLY PLAN**

SHEET NUMBER

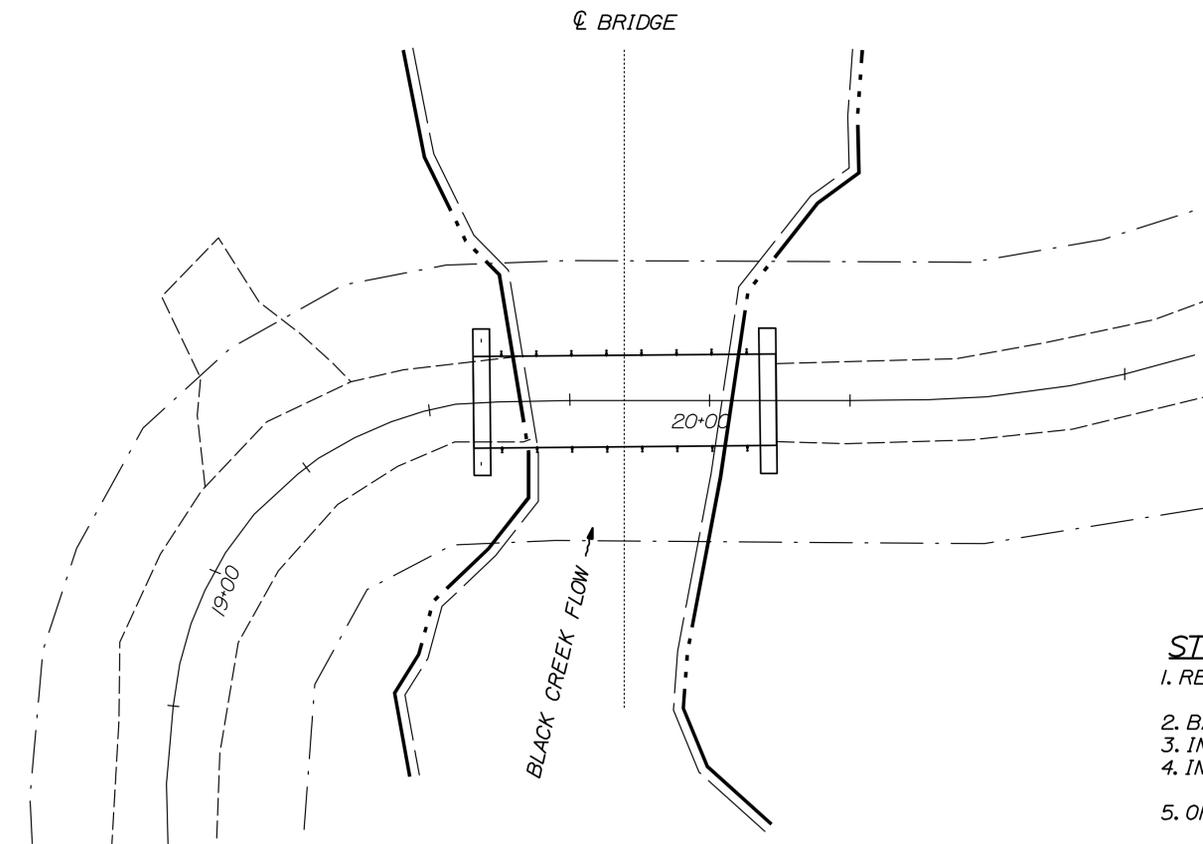
**2**





**STAGE 5 - INSTALLATION**

1. INSTALL AND SECURE ANCHOR RODS ACCORDING TO CONTRACT DETAILS.
2. GROUT ANCHOR RODS IN ABUTMENT ANCHOR ROD CAVITIES.
3. INSTALL BACKER RODS BELOW THE BOTTOM OF ALL SHEAR KEYS.
4. INSTALL POST-TENSIONING STRANDS AND TENSION TO 3 KIPS TO REMOVE SAG AND SEAT CHUCK.
5. PUMP GROUT FROM THE LOW END OF THE BRIDGE SEAT THROUGH THE ANCHOR BOLT DUCTS CLOSEST TO THE FASCIA TO FILL THE VOID BETWEEN THE SEAT AND THE BOTTOM OF THE PRECAST DECK SLABS. CONTINUE TO PUMP GROUT UNTIL ALL ANCHOR DUCTS ARE FULL.
6. INSTALL ANCHOR PLATES, WASHERS, AND NUTS FOR ALL ANCHOR BOLTS.
7. GROUT SHEAR KEYS FULLY. ALLOW GROUT TO CURE TO A MINIMUM COMPRESSIVE STRENGTH OF 600 PSI. THE CONTRACTOR SHALL MOLD AND CURE A SUFFICIENT AMOUNT OF CUBES DURING THE GROUT PLACEMENT FOR TESTING.
8. FULLY TENSION TRANSVERSE TENDONS PER CONTRACT DRAWINGS.



**STAGE 6 - INSTALLATION**

1. REMOVE PUSH-PULL SHORING ON ABUTMENT FA-AB3. REMOVE STEEL PLATES AND EXTRACT HP 14x73 PILES FROM FA-AB4 SIDE.
2. BACKFILL EXCAVATION ON BOTH APPROACHES.
3. INSTALL CIP CONCRETE CURBS AND BRIDGE RAILING PER CONTRACT DETAILS.
4. INSTALL BRIDGE RAILING, APPLY MEMBRANE WATERPROOFING, PAVE AND INSTALL ASPHALTIC PLUG TYPE EXPANSION JOINT.
5. OPEN BRIDGE TO TRAFFIC.

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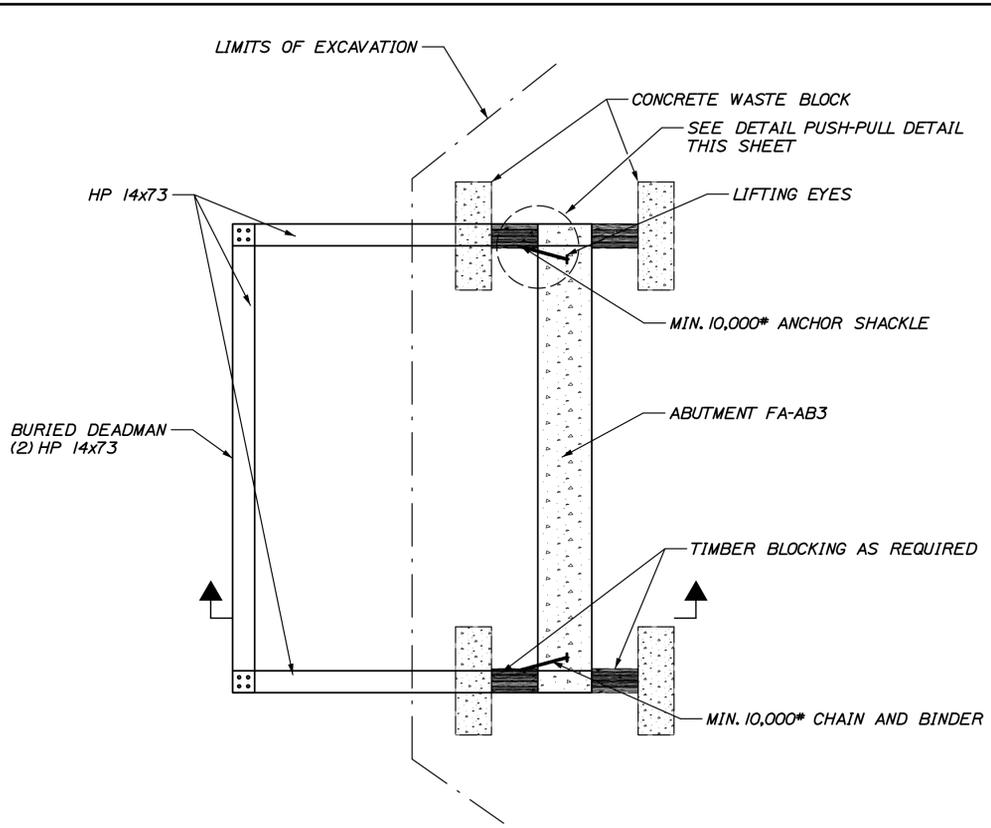
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4/15	ETC							

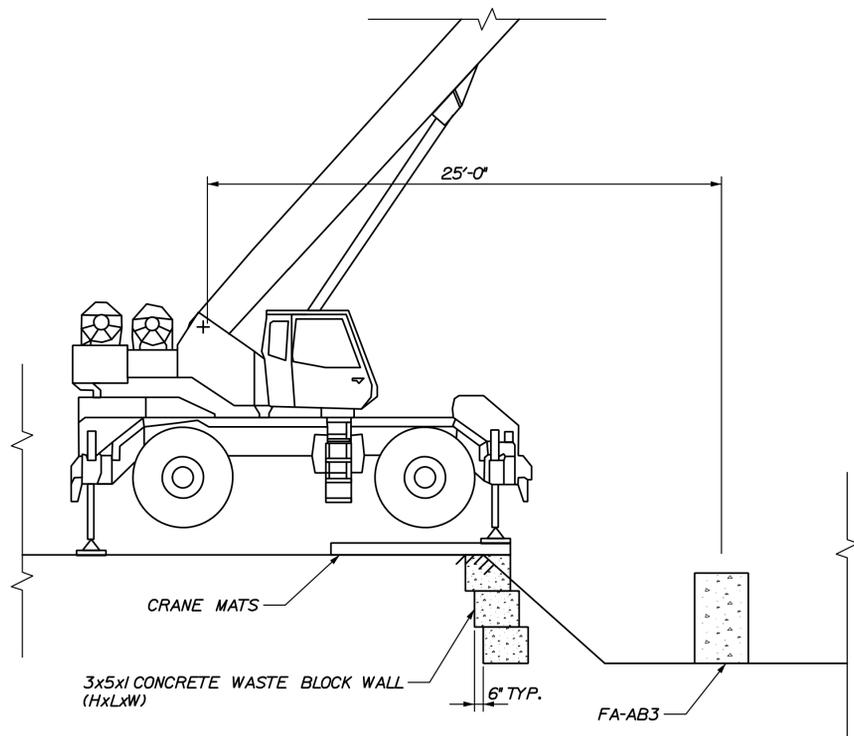
**FAIRFIELD-VT ELM BROOK RD  
 OVER BLACK CREEK**  
**ASSEMBLY PLAN**

SHEET NUMBER  
**3**



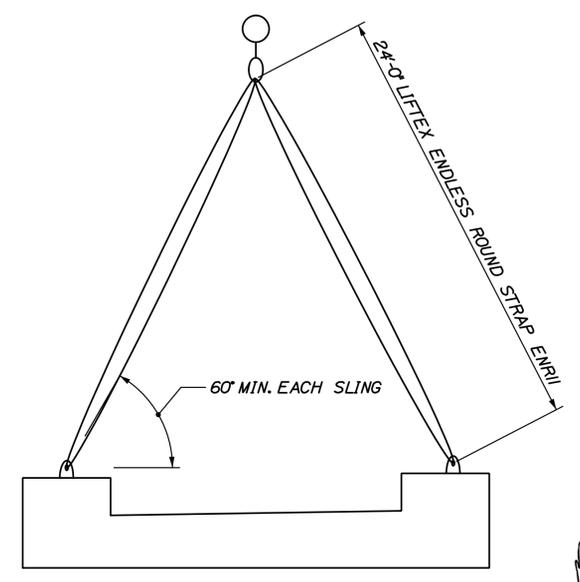


**FA-AB3 DEADMAN SET UP PLAN**  
NOT TO SCALE

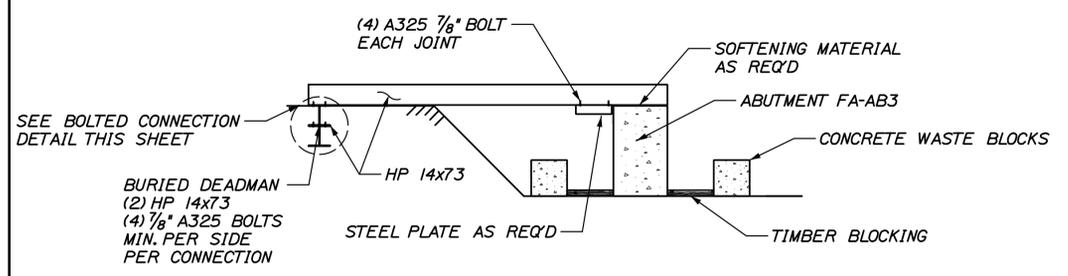


**RTC 8050 SET UP**  
NOT TO SCALE

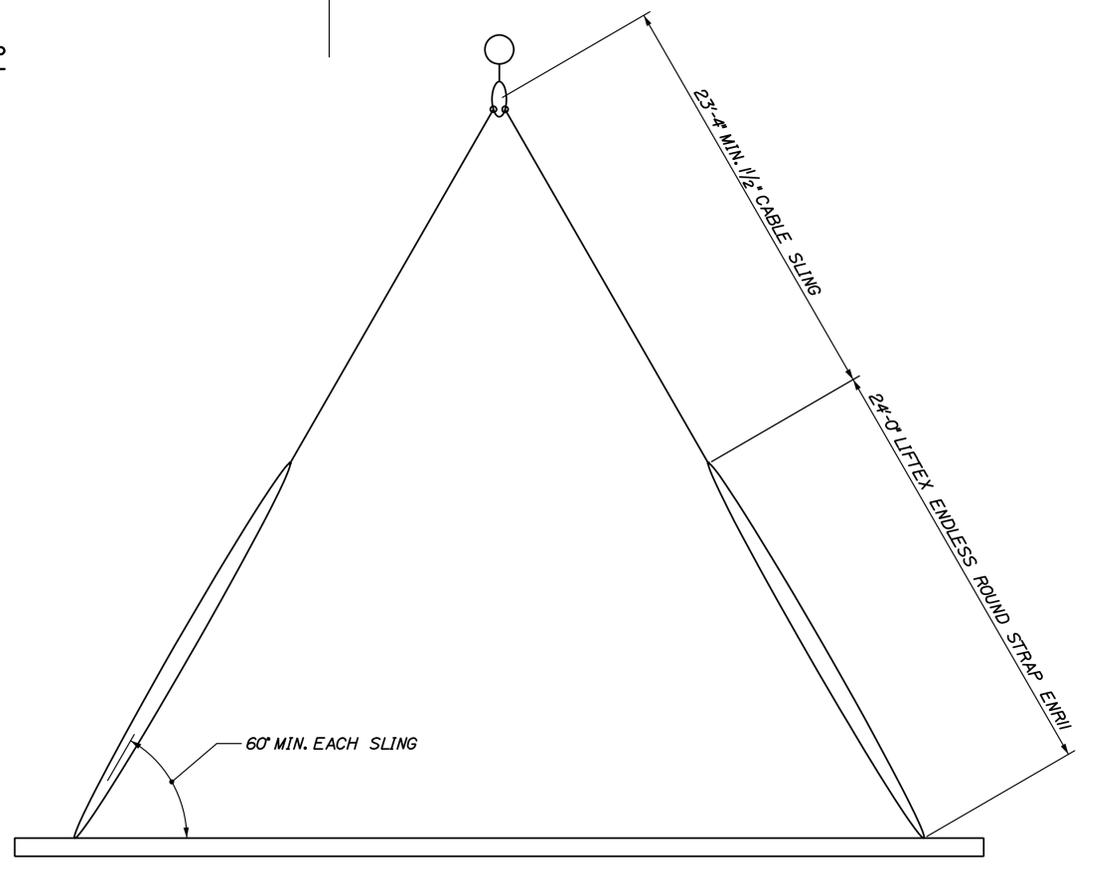
NOTE:  
CONCRETE WASTE BLOCKS ARE PLACED SUCH THAT  
∅ ROTATION IS 25'-0" FROM ∅ BEARING ABUTMENT FA-AB3



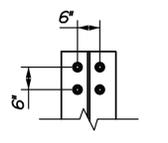
**ABUTMENT LIFTING SCHEME**  
NOT TO SCALE



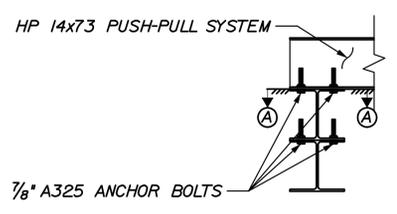
**FA-AB3 DEADMAN SET UP SECTION**  
NOT TO SCALE



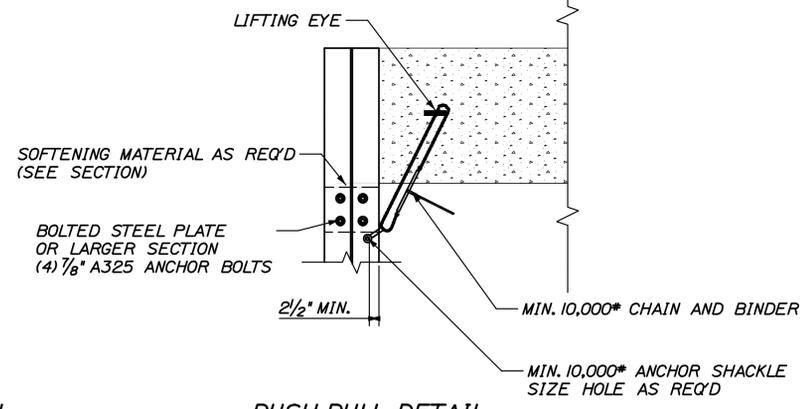
**PRECAST DECK PANEL LIFTING SCHEME**  
NOT TO SCALE



**SECTION A**  
NOT TO SCALE



**BOLTED CONNECTION DETAIL**  
NOT TO SCALE



**PUSH-PULL DETAIL**  
NOT TO SCALE

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**FAIRFIELD-VT ELM BROOK RD  
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