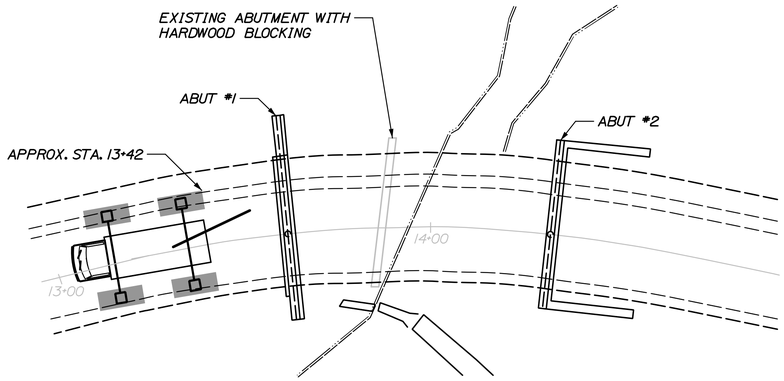


STAGE 1 - INSTALL TEMPORARY BEARING PLATFORMS

1. ONCE SITE PREPARATION IS COMPLETE, BEGIN INSTALLATION OF CRANE MATS FOR THE PLACEMENT OF BOTH ABUTMENTS.
2. IT IS IMPERATIVE THAT THE CRANE OPERATORS FAMILIARIZE THEMSELVES WITH THE LOCATION OF THE OVERHEAD UTILITIES. THESE UTILITIES ARE NOT TO BE MOVED OR ALTERED IN ANY WAY.
3. ENSURE ELEVATION AND POSITION OF CRANE MATS ARE APPROPRIATE FOR THE PLACEMENT OF ALL STEEL GIRDERS. HL150 MAXIMUM RADIUS = 80 FEET 1
5. IF UNDESIRABLE SOIL PRESENT IN THE LOCATIONS OF THE CRANE MATS, EXCAVATE 5 FEET, FILL AND COMPACT GRANULAR MATERIAL FOR APPLICABLE AREA.
6. THE CONTRACTOR SHALL VERIFY THE STABILITY AND LOCATION OF CRANE MATS.
7. INSTALL AND SECURE HARDWOOD BLOCKING ON EXISTING ABUTMENT IN ORDER TO TEMPORARILY SUPPORT NEW GIRDERS.

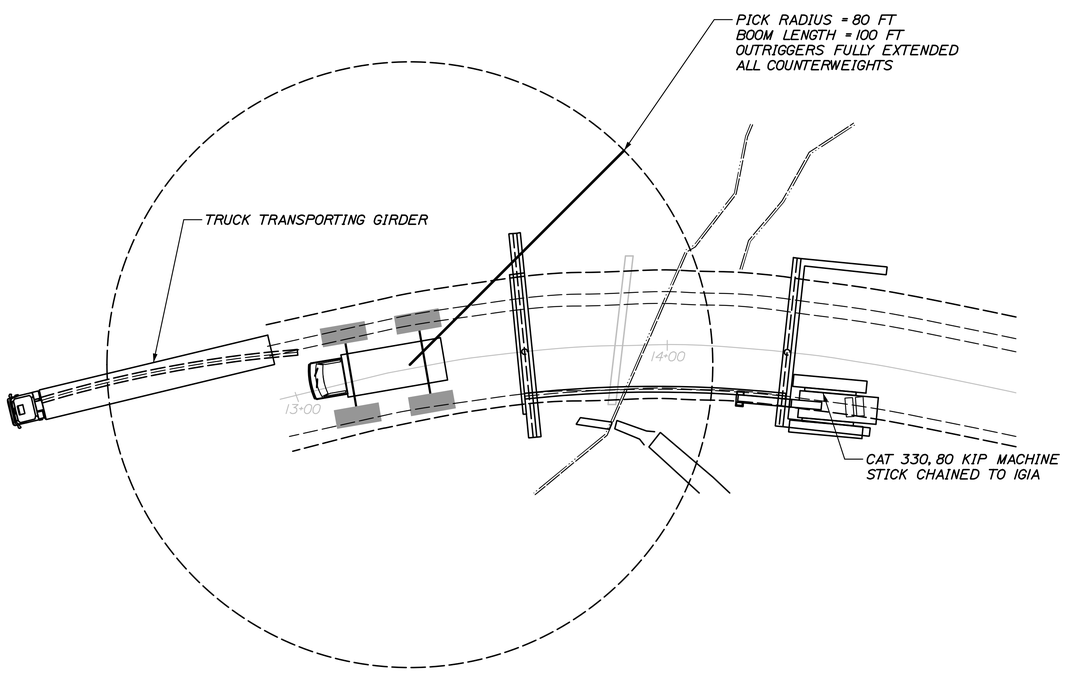
NOTES:
CRANE MATS: 5'-0" x 12'-0" x 8" REINFORCED CONCRETE

(2) CRANE MATS STACKED PER OUTRIGGER REQUIRED

DIFFERENTLY SIZED CRANE MATS ORGANIZED TO ACHIEVE THE SAME BEARING AREA AND DEPTH MAY BE SUBSTITUTED AT THE DISCRETION OF THE CONTRACTOR'S ENGINEER. THE PROPOSED SUBSTITUTION SHALL MEET OR EXCEED THE ASSUMED REINFORCEMENT (SEE CALCULATION PACKAGE).

THE GIVEN STATIONING FOR THE CRANE MATS IS APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR'S ENGINEER.

DURING ALL PICKS, ENSURE WEATHER FOR THE FORSEEABLE DURATION DOES NOT PREDICT WIND IN EXCESS OF 20 MPH.



STAGE 2 - INSTALLATION OF IGIA

1. ENSURE WEATHER FOR THE FORSEEABLE DURATION DOES NOT PREDICT WIND IN EXCESS OF 20 MPH. BEGIN INSTALLATION OF GIRDER IGIA, 13.1 KIP, WITH HL150.
2. WHEN IGIA IS IN PLACE, CHAIN GIRDER TO THE CAT 330 EXCAVATOR TO STABILIZE. THE CAT 330 SHALL BE AT ABUTMENT #2. USE HARDWOOD BLOCKS BETWEEN THE STICK AND GIRDER TO AVOID METAL-TO-METAL CONTACT.
3. CHAIN IGIA TO ABUTMENT #1 AS REQUIRED. THE CONTRACTOR SHALL VERIFY THE STABILITY OF IGIA PRIOR TO UNHOOKING THE HL150.
4. DISCONNECT THE HL150 FROM IGIA.

1 NOTE:
SEE SHEET 4 FOR IGIA TIE DOWN DETAILS.
IGIA SHALL BE TIED DOWN AS SHOWN PRIOR TO UNHOOKING THE HL150. IGIA SHALL REMAIN CHAINED, AT A MINIMUM, UNTIL ALL INTERMEDIATE DIAPHRAGMS ARE CONNECTED TO 2G2A.

1 REV 1 NOTES:
-SHEET 4 ADDED
-MISC REVISIONS MARKED

NOTE:
TEMPORARY BEARINGS USED. JACKING PLAN DETAILS AND CALCULATIONS REQUIRED FOR INSTALLATION OF PERMANENT BEARING PADS BY OTHERS.

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VTAOT PROJ. NUMBER STP 5600 (12)
CEE 38-MI-15

STATE OF VERMONT
ERIC T. CALDERWOOD
NO. 8711
Structural
LICENSED
PROFESSIONAL ENGINEER

P.E. NUMBER 8711
DATE

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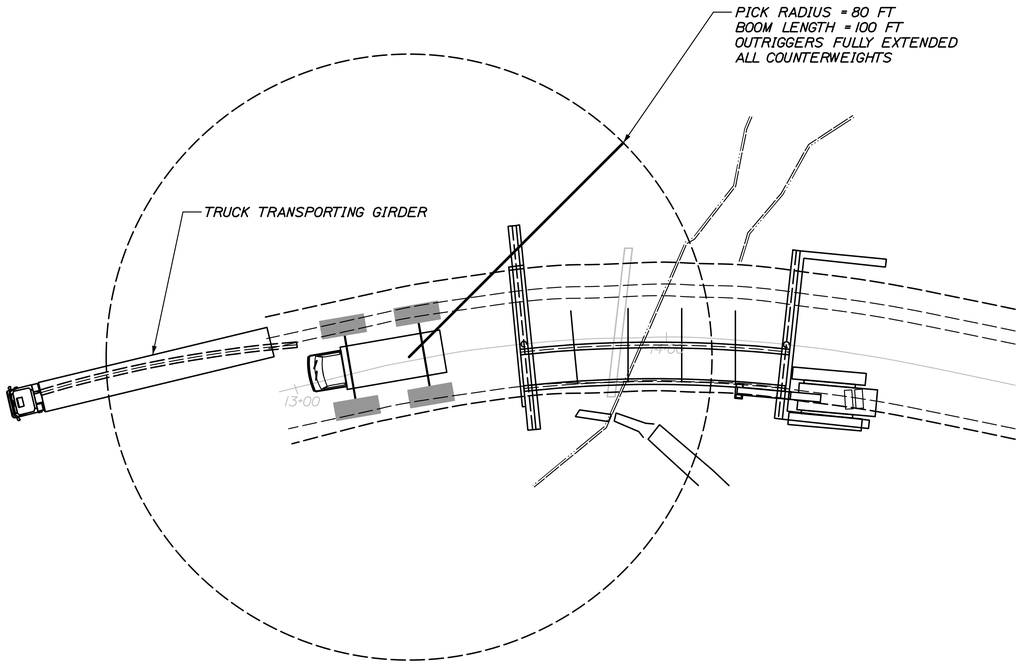
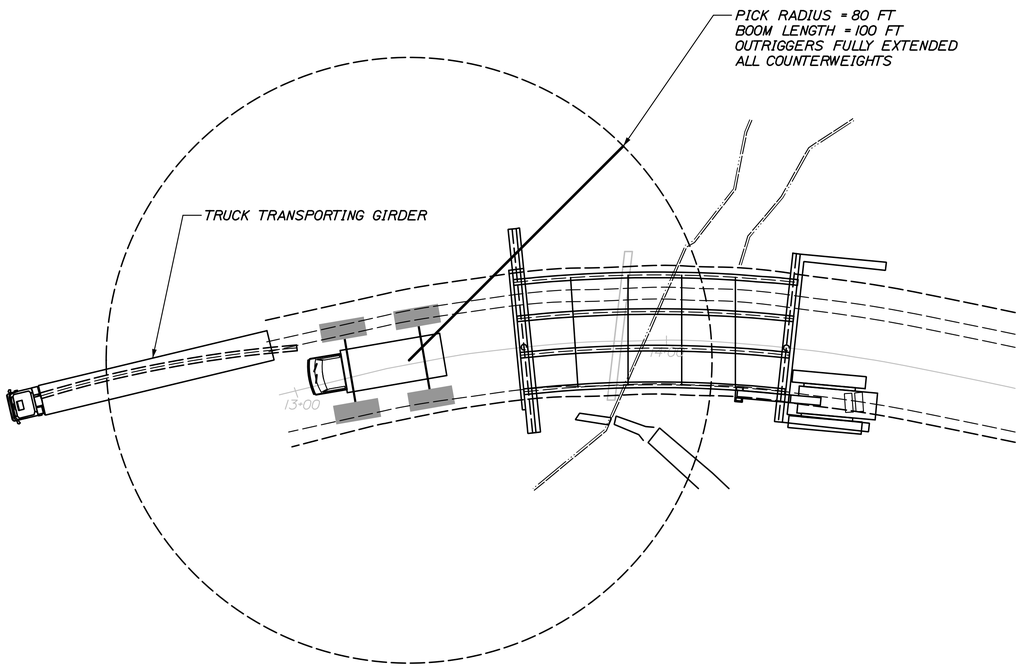


STAGE 3 - INSTALLATION OF 2G2A

1. INSTALL ALL INTERMEDIATE DIAPHRAGMS ON 2G2A FOR CONNECTION TO IG1A AND 3G3A.
2. ENSURE WEATHER FOR THE FORSEEABLE DURATION DOES NOT PREDICT WIND IN EXCESS OF 20 MPH. BEGIN INSTALLATION OF GIRDER 2G2A, 23.21 KIP. WITH HL150.
3. WHEN 2G2A IS IN PLACE, ATTACH ALL INTERMEDIATE DIAPHRAGMS TO IG1A PRIOR TO DISCONNECTING HL150.
4. INTSTALL ABUTMENT DIAPHRAGMS BETWEEN IG1A AND 2G2A.

1 NOTE:
ALL DIAPHRAMS BOLTS SHALL BE HAND TIGHTENED UNTIL BEAM SET. ONCE SET, ALL DIAPHRAGMS SHALL BE INSTALLED TORQUED AS REQUIRED.



STAGE 4 - INSTALLATION OF 3G3A & 4G4A

1. ENSURE WEATHER FOR THE FORSEEABLE DURATION DOES NOT PREDICT WIND IN EXCESS OF 20 MPH. BEGIN INSTALLATION OF GIRDER 3G3A, 15.7 KIP, WITH HL150.
2. WHEN 3G3A IS IN PLACE, ATTACH ALL INTERMEDIATE DIAPHRAGMS TO 2G2A PRIOR TO DISCONNECTING HL150.
3. INTSTALL ABUTMENT DIAPHRAGMS BETWEEN 3G3A AND 2G2A.
4. INSTALL INTERMEDIATE DIAPHRAGMS BETWEEN 3G3A AND 4G4A TO 3G3A.
5. ENSURE WEATHER FOR THE FORSEEABLE DURATION DOES NOT PREDICT WIND IN EXCESS OF 20 MPH. BEGIN INSTALLTION OF GIRDER 4G4A, 16.0 KIP, WITH HL150.
6. WHEN 4G4A IS IN PLACE, ATTACH ALL INTERMEDIATE DIAPHRAGMS TO 3G3A PRIOR TO DISCONNECTING HL150.
7. INSTALL ABUTMENT DIAPHRAGMS BETWEEN 3G3A AND 4G4A.

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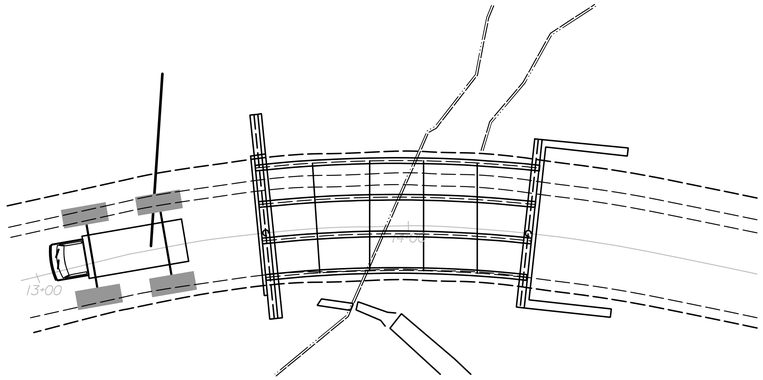
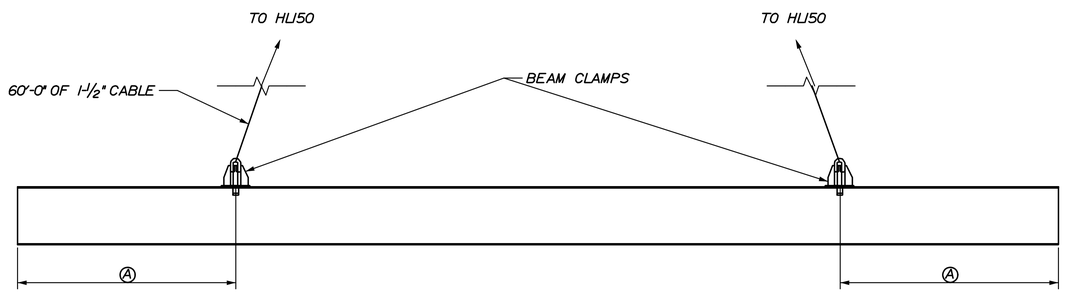


STAGE 5 - FINISH BRIDGE

1. UNCHAIN GIRDER 1G1A FROM ABUTMENT AND CAT 330.
2. REMOVE TIMBER BLOCKING AND OLD ABUTMENT AS REQUIRED BY CONTRACT. TIMBER BLOCKING SHALL BE SAWN OUT WITH A CHAINSAW.
3. FINISH BRIDGE AS REQUIRED BY CONTRACT.



GIRDER LIFTING SCHEME

NOT TO SCALE

A = 1G1A) 14'-5"±
2G2A) 14'-10"±
3G3A) 15'-2"±
4G4A) 15'-9"±

CAPACITY NOTES:
BEAM CLAMP = 25 TON MIN.
SHACKLES = 25 TON MIN.

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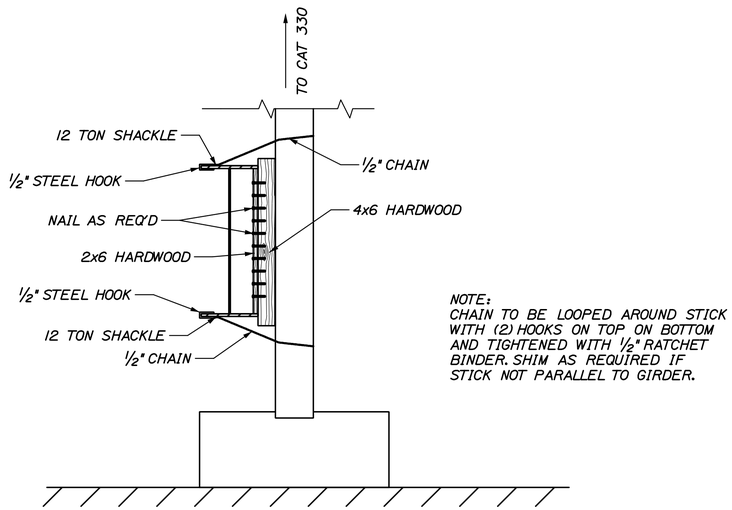
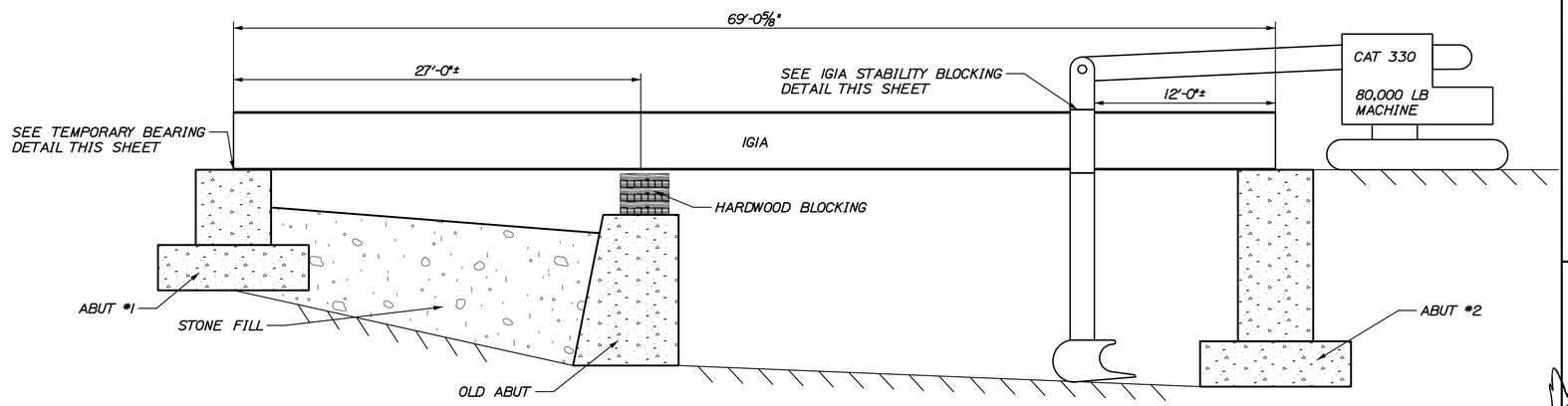


NOTE:
CHAIN TO BE LOOPED AROUND STICK WITH (2) HOOKS ON TOP ON BOTTOM AND TIGHTENED WITH 1/2" RATCHET BINDER. SHIM AS REQUIRED IF STICK NOT PARALLEL TO GIRDER.

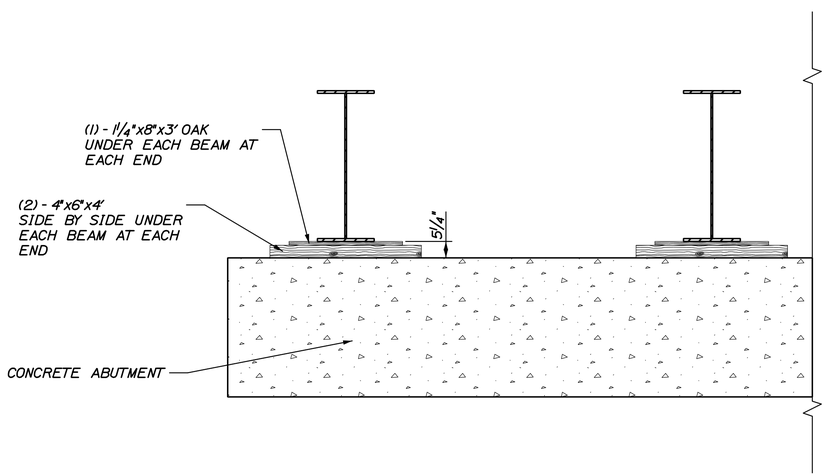
IGIA STABILITY BLOCKING DETAIL

NOT TO SCALE



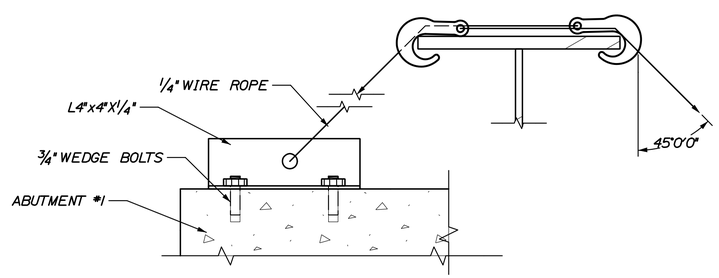
IGIA TEMPORARY BRACING

NOT TO SCALE



TEMPORARY BEARING DETAIL

NOT TO SCALE



1/4" ϕ MIN ANCHOR CABLE WIRE ROPE I.P.S. TO ABUTMENT, TIGHTEN SNUG TIGHT ONLY USING CUMALONG OR 3/8" TURNBUCKLE (TYPICAL EACH SIDE) ANCHOR TO ABUTMENT WITH AN L4x4x1/4" OR LARGER ANGLE 1'-0" LONG OR LONGER ANCHOR USING (2) 3/4" WEDGE BOLTS OR EQUIV.

TEMPORARY ERECTION BRACING AT ABUTMENT

NOT TO SCALE

1 REV 1: ENTIRE SHEET ADDED

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