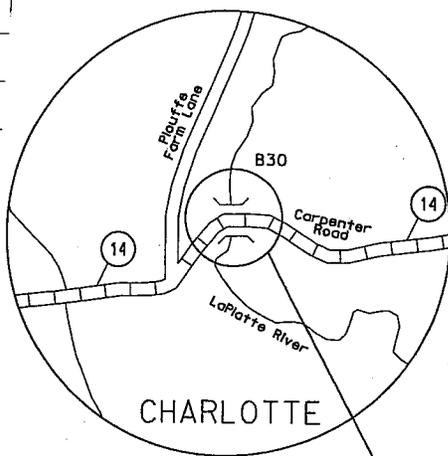


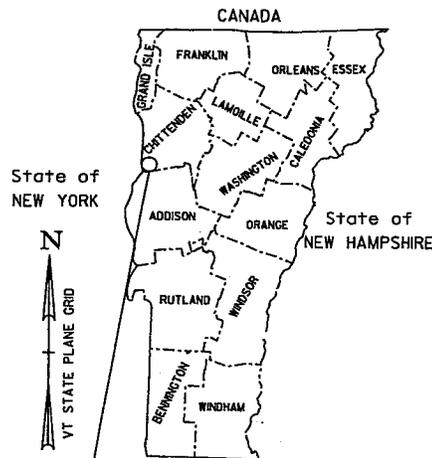
CHARLOTTE - BRIDGE 30 SHORING SKETCH

The following shoring sketch is intended to address undermining of the upstream fixed bearing on the east abutment of Bridge 30 in the Town of Charlotte.

Description of work: Install Structural Steel Shoring Column below the exterior girder on the upstream side of the bridge. The column is to be braced and anchored to the existing abutment utilizing 7/8" diameter threaded rods that are to be drilled and epoxied into the existing concrete abutment. Refer to sketches for additional details, and photos depicting the existing conditions.



VICINITY MAP
NOT TO SCALE



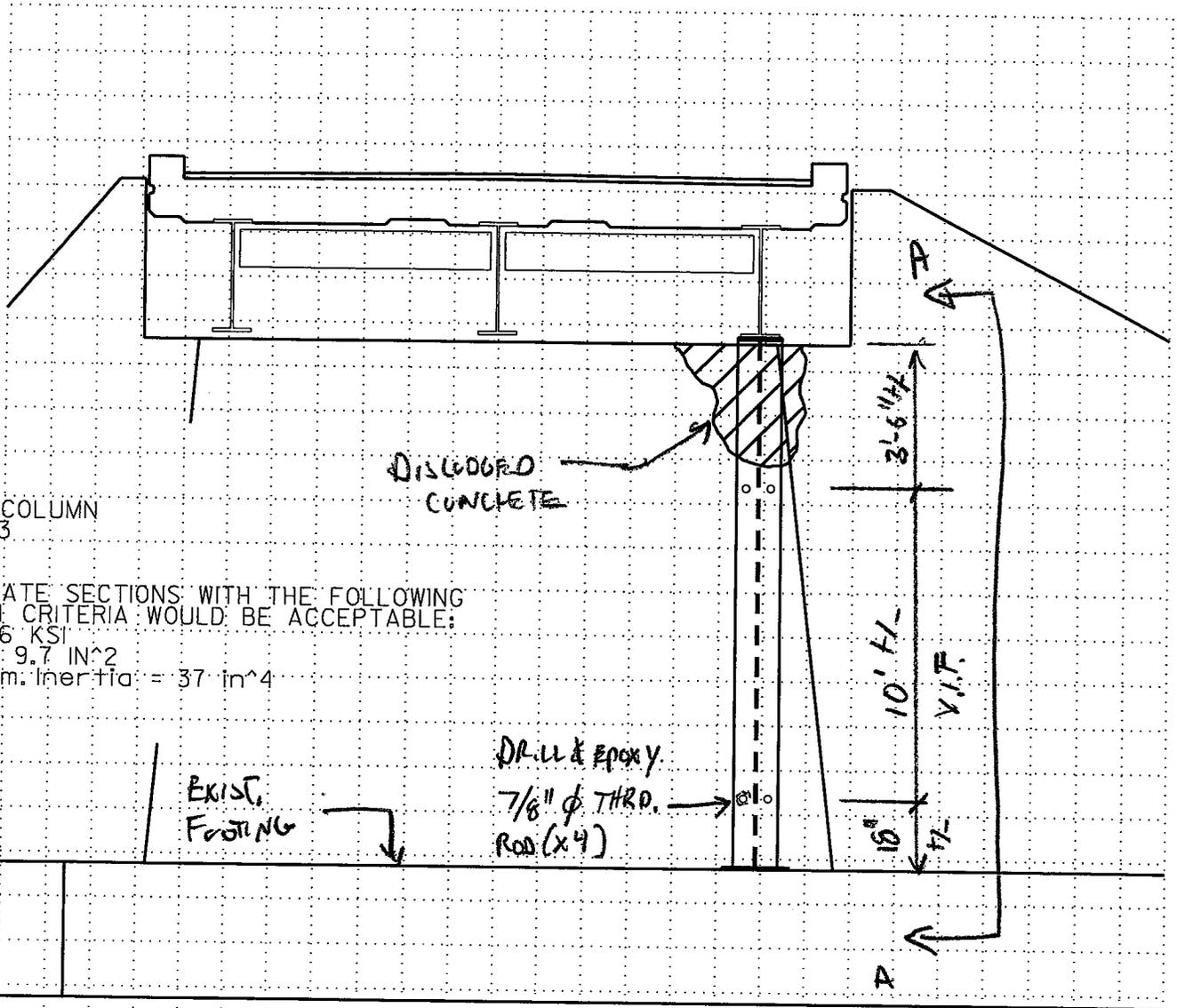
Commonwealth of MASSACHUSETTS
LOCATION MAP



Startec

JOB CHARLOTTE BRIDGE 30

SKETCH



STEEL COLUMN
W 10X33

DISLODGED
CONCRETE

ALTERNATE SECTIONS WITH THE FOLLOWING
MINIMUM CRITERIA WOULD BE ACCEPTABLE:
F_y = 36 KSI
AREA = 9.7 IN²
Min. Mom. Inertia = 37 IN⁴

EXIST.
FOOTING

DRILL & EPOXY
7/8" φ THRD.
ROD (x4)

3'-6"
10' Ht.
18"
V.I.F.

EAST ABUTMENT

1. CONTRACTOR RESPONSIBLE FOR MEASURE AND FIT UP.

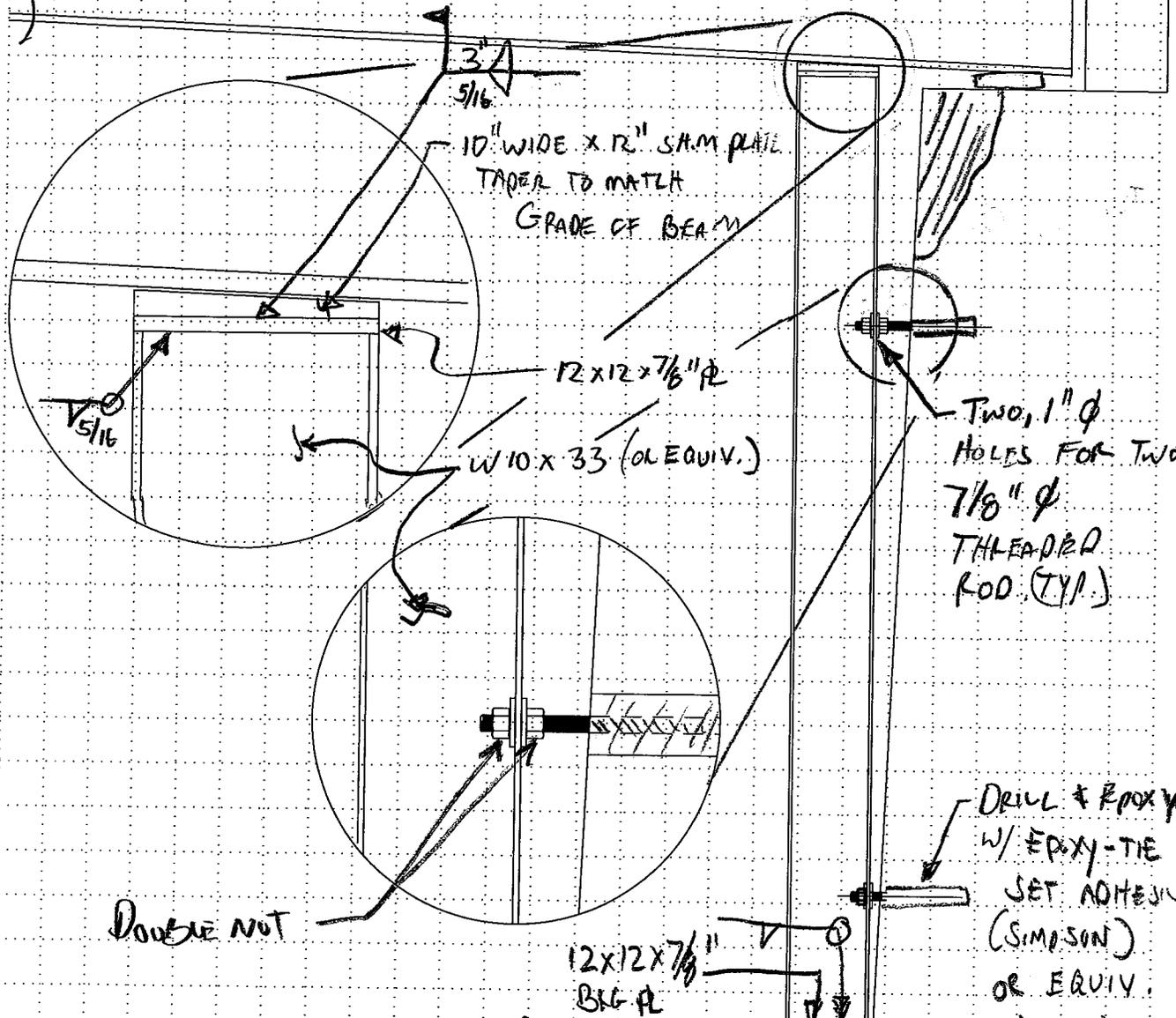
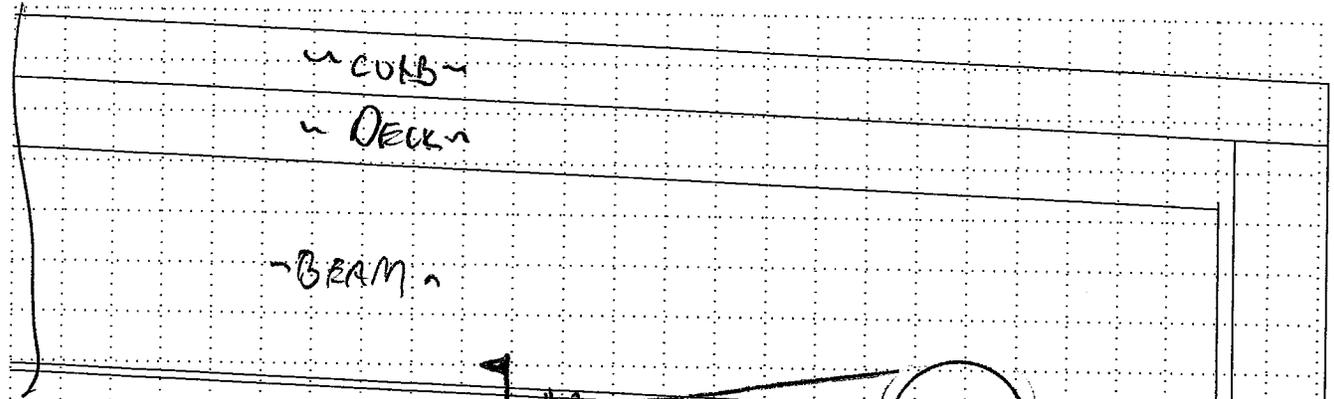
CALCULATED BY	<u>TEL</u>	DATE	<u>7/14</u>
CHECKED BY	<u>GAB</u>	DATE	<u>7/25/14</u>



Stantec

JOB CHARLOTTE BRIDGE 30

SKIPPING SKETCH



VIEW A-A

CALCULATED BY TEL DATE 7/14
 CHECKED BY _____ DATE _____







