

Site Specific
TRAFFIC CONTROL PLAN
For FAIRFIELD BRO 1448(41)

A. L. St. Onge Contractor, Inc.
P.O. Box 65
Montgomery, Vermont 05470
Tel.: {802} 326-4792 Fax: {802} 326- 4005

Plan needs to be designed and stamped by a VT PE.

No signing shown for lane closures before and after the BCP

Carl W. Gleason
#74051

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Fairfield BCP TCP Revise 12-24-2014.pdf

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December 16, 2014

RESUBMIT YES **Rejected**

BY RY DATE 12-24-2014

Construction Activities Before the BCP

- Construction Approach Signing Installed as detailed on sheet TCP4
- Flaggers will control traffic during daylight hours maintaining one way traffic. A 3 stage temporary Flagging sign package will be set upon Route 36 at each approach to Elm Brook Road, giving advance notice of Flaggers and Construction Activities.

Construction Activities During the BCP

- The Road will be Closed and signed as detailed on sheet TCP3.
- Flaggers as necessary.

Construction Activities After the BCP

- Flaggers will control traffic during daylight hours maintaining one way traffic. A 3 stage temporary Flagging sign package at each approach to the Project, giving advance notice of Flaggers and Construction Activities.

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RESUBMIT YES Rejected

BY RY DATE 12-24-2014

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

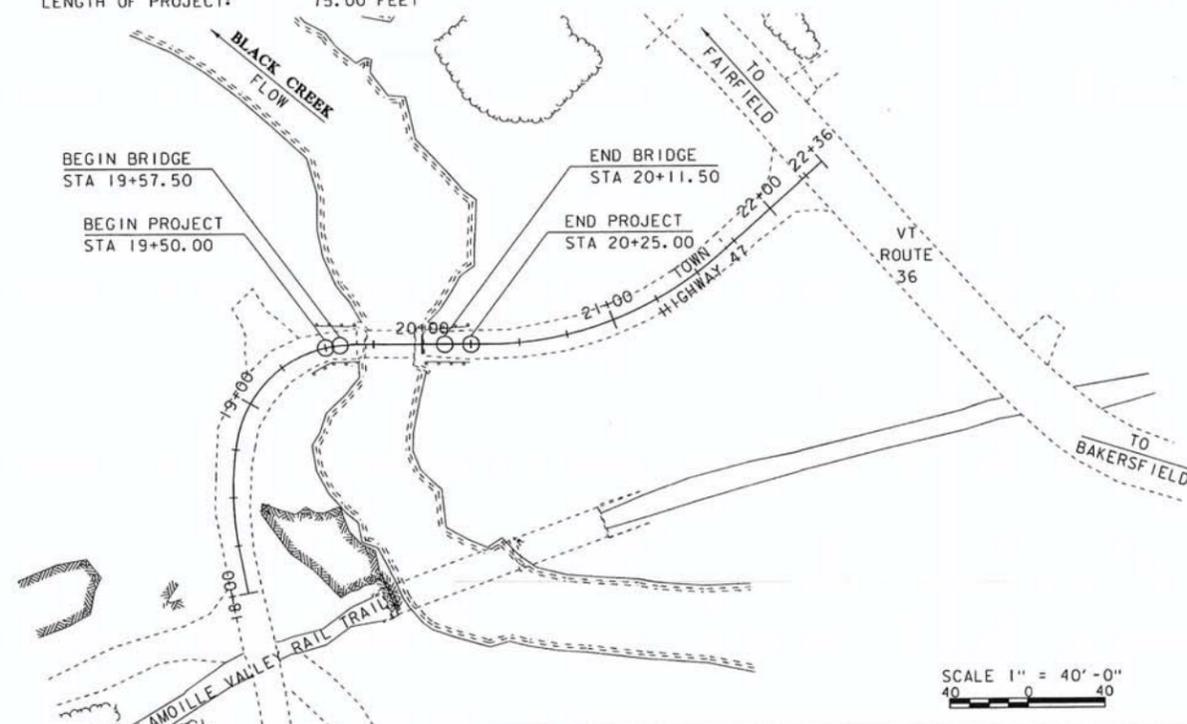
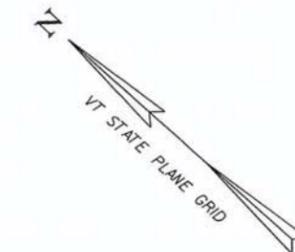
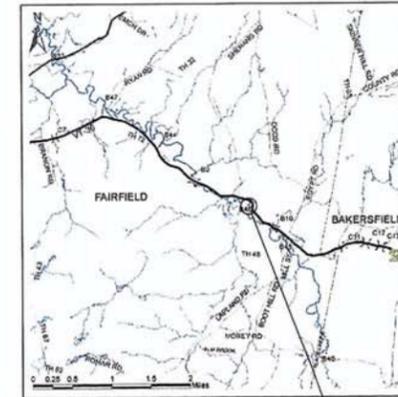
TOWN OF FAIRFIELD
COUNTY OF FRANKLIN

ROUTE NO : ELM BROOK ROAD, TOWN HIGHWAY 47 (CLASS 3) TOWN BRIDGE NO : 46

PROJECT LOCATION: LOCATED 0.05 MILES WESTERLY OF THE JUNCTION OF TOWN HIGHWAY 47 AND VT ROUTE 36.

PROJECT DESCRIPTION: REPLACEMENT OF EXISTING BRIDGE WITH RELATED ROADWAY APPROACH AND CHANNEL WORK.

LENGTH OF STRUCTURE: 54.00 FEET
LENGTH OF ROADWAY: 21.00 FEET
LENGTH OF PROJECT: 75.00 FEET



SCALE 1" = 40' - 0"

PROJECT MANAGER : R. YOUNG, P. E.
PROJECT NAME : FAIRFIELD
PROJECT NUMBER : BRO 1448 (41)
SHEET 38 OF 69 SHEETS

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THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : L. ORVIS
SURVEYED DATE : 3-11-2012

DATUM
VERTICAL NAVD88
HORIZONTAL NAD 83 (07)

TCP1

GENERAL

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE VERMONT AGENCY OF TRANSPORTATION 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, AND THEIR LATEST REVISIONS.
- 2. ALL PRECAST/PRESTRESSED CONCRETE ELEMENTS SHALL BE FABRICATED TO THE SPECIFIED DIMENSIONS AND ERECTED IN THE SPECIFIED LOCATIONS, ALL WITHIN TOLERANCES DEFINED ON THE PLANS AND IN THE PRECAST/PRESTRESSED CONCRETE INSTITUTE TOLERANCE MANUAL FOR PRECAST AND PRESTRESSED CONCRETE CONSTRUCTION, MNL 135-00, AND ITS LATEST REVISIONS.
- 3. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.

TRAFFIC CONTROL

- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A SITE SPECIFIC TRAFFIC CONTROL PACKAGE IDENTIFYING CONSTRUCTION ACTIVITIES BEFORE, DURING, AND AFTER THE BRIDGE CLOSURE PERIOD. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE PROJECT MANAGER FOR ALL STAGES OF CONSTRUCTION, FOR APPROVAL PER SUBSECTION 105.03. ALL COSTS SHALL BE INCLUDED IN ITEM 900.645, "SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)(BRO 1448(41))". SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- 5. ALL ITEMS REQUIRED TO IMPLEMENT THE CONTRACTOR'S TRAFFIC CONTROL PLAN WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCLUDED IN THE BID PRICE FOR ITEM 900.645, "SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)(BRO 1448(41))".
- 6. THE TOWN OF FAIRFIELD IS RESPONSIBLE FOR PROVIDING MEANS OF ACCESS FOR THE RESIDENTS OF ELM BROOK ROAD DURING THE BRIDGE CLOSURE PERIODS.
- 7. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. FOR ADDITIONAL SIGNING INSTRUCTIONS SEE THE T SERIES OF THE STANDARDS. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN.

EARTHWORK

- 8. REMOVAL OF THE EXISTING STRUCTURE SHALL BE PAID FOR UNDER ITEM 529.15, "REMOVAL OF STRUCTURE". THIS WORK SHALL INCLUDE REMOVAL OF ANY PORTIONS OF THE EXISTING ABUTMENTS THAT FALL OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION OR UNCLASSIFIED CHANNEL EXCAVATION.
- 9. THE "STONE FILL, TYPE III" UNDER THE BRIDGE AS SHOWN IN THE PLANS SHALL BE PLACED BEFORE THE PRESTRESSED SLABS ARE SET.
- 10. GEOTEXTILE MEETING THE REQUIREMENTS OF ITEM 649.11, "GEOTEXTILE FOR ROADBED SEPARATOR" SHALL BE USED TO WRAP THE GRANULAR BACKFILL FOR STRUCTURES MATERIAL BEHIND ABUTMENT #1 AS SHOWN ON THE PLANS. ALL COSTS ASSOCIATED WITH PLACING THE GEOTEXTILE AND WRAPPING THE BACKFILL MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 649.11, "GEOTEXTILE FOR ROADBED SEPARATOR".
- 11. IF SHALLOW BEDROCK IS ENCOUNTERED IN FRONT OF ABUTMENT #1 PREVENTING INSTALLATION OF THE STONE FILL KEYWAY AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT A STABLE BASE FOR THE STONE FILL SLOPE TO THE SATISFACTION OF THE ENGINEER. RESTACKING STONES FROM THE EXISTING ABUTMENT OR OTHER MEANS MAY BE USED TO PROVIDE A STABLE BASE. ALL COSTS ASSOCIATED WITH CONSTRUCTING A STABLE BASE FOR THE STONE FILL SLOPE, IF NECESSARY, SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 613.12, STONE FILL, TYPE III.

CONCRETE AND REINFORCING STEEL

- 12. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE. A MINIMUM OF TWO TEST SECTIONS ARE REQUIRED FOR EACH SIZE, BRAND, AND GRADE OR TYPE OF REINFORCING. SEE THE MANUAL FOR ACCEPTABLE DIMENSIONS OF TEST SECTIONS. ALL COSTS ASSOCIATED WITH PROVIDING BARS FOR TESTING SHALL BE INCLUDED IN THE BID PRICE FOR EACH 540.10, 900.640, "SPECIAL PROVISION, (PRESTRESSED CONCRETE SOLID SLABS)(21" x 48")", AND 900.645, "SPECIAL PROVISION, (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE)" CONTRACT ITEM AS APPROPRIATE.
- 13. WATER REPELLENT, SILANE SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 514 AND SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON THE BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE, WITH THE EXCEPTION OF THE BOTTOM OF THE SLABS BETWEEN THE DRIP NOTCHES. ALL COSTS ASSOCIATED WITH APPLYING SILANE SHALL BE INCLUDED IN THE BID PRICE FOR EACH 540.10, 900.640, "SPECIAL PROVISION, (PRESTRESSED CONCRETE SOLID SLABS)(21" x 48")", AND 900.645, "SPECIAL PROVISION, (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE)" CONTRACT ITEM AS APPROPRIATE.
- 14. CONCRETE FOR ABUTMENT PILE CAVITIES SHALL MEET THE REQUIREMENTS OF ITEM 900.608, "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, RAPID SET)(FPQ)".
- 15. GROUT FOR SHEAR KEYS BETWEEN THE PRESTRESSED SLABS SHALL BE MORTAR, TYPE IV IN ACCORDANCE WITH SECTION 510 - PRESTRESSED CONCRETE. GROUT FOR ANCHOR BOLTS SHALL BE MORTAR, TYPE IV IN ACCORDANCE WITH SECTION 531 - BRIDGE BEARING DEVICES. THE CONTRACTOR SHALL SUBMIT A GROUTING PROCEDURE PROPOSAL TO THE ENGINEER, INCLUDING A PREMIX NAME BRAND FOR APPROVAL.

- 16. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING STEEL INSTITUTE".
- 17. ALL REINFORCING STEEL IN THE PRESTRESSED SLABS AND ABUTMENTS & WINGWALLS ABOVE THE BRIDGE SEAT SHALL MEET THE REQUIREMENTS FOR LEVEL I (EPOXY COATED) CORROSION RESISTANCE IN ACCORDANCE WITH SECTION 507.
- 18. REINFORCING STEEL IN THE ABUTMENTS & WINGWALLS BELOW THE BRIDGE SEAT SHALL MEET THE REQUIREMENTS FOR LEVEL I CORROSION RESISTANCE IN ACCORDANCE WITH SECTION 507.
- 19. CORRUGATED STEEL PIPES IN THE PRECAST ABUTMENTS FOR PILE CAVITIES AND ANCHOR BOLT CAVITIES SHALL MEET THE REQUIREMENTS OF SUBSECTION 711.01, BE COATED IN ACCORDANCE WITH AASHTO M 218, AND BE TYPE 1. ALL COSTS ASSOCIATED WITH PLACING THE CORRUGATED STEEL PIPES SHALL BE INCLUDED IN THE BID PRICE FOR EACH 540.10 AND 900.645, "SPECIAL PROVISION, (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE)" CONTRACT ITEM AS APPROPRIATE.

- 20. CORRUGATED POST-TENSIONING DUCTS IN THE PRESTRESSED SLABS FOR ANCHOR BOLT CONNECTIONS SHALL BE CONSTRUCTED FROM EITHER POLYETHYLENE OR POLYPROPYLENE. THE DUCT SHALL HAVE A MINIMUM MATERIAL THICKNESS OF 0.080 IN. +/- 0.010 IN. AND SHALL HAVE A WHITE COATING ON THE OUTSIDE OR SHALL BE OF WHITE MATERIAL WITH ULTRAVIOLET STABILIZERS ADDED. POLYETHYLENE DUCT SHALL BE FABRICATED FROM RESINS MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D 3350 WITH A CELL CLASSIFICATION OF 345464A. POLY PROPYLENE DUCT SHALL BE FABRICATED FROM RESINS MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D 4101 WITH A CELL CLASSIFICATION RANGE OF PP0340B44544 TO PP0340B65884. ALL COSTS ASSOCIATED WITH PLACING THE DUCTS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 900.640, "SPECIAL PROVISION, (PRESTRESSED CONCRETE SOLID SLABS)(21" x 48") AS APPROPRIATE.

PRECAST ABUTMENTS

- 21. CONCRETE COMPRESSIVE STRENGTH: f_c = 5 KSI.
- 22. THE CONTRACTOR IS ADVISED THAT ABUTMENT #1 MAY BE UNSTABLE UNTIL THE CONNECTIONS BETWEEN THE ABUTMENT AND PRESTRESSED SLABS ARE COMPLETE. IF ANY BACKFILL WILL BE PLACED ABOVE THE BOTTOM OF ABUTMENT BEFORE THE CONNECTIONS ARE COMPLETE, THE CONTRACTOR SHALL SUBMIT A SHORING PLAN FOR ABUTMENT #1 TO THE PROJECT MANAGER FOR APPROVAL. THE SHORING PLAN SHALL INCLUDE ASSOCIATED DETAILS, PROCEDURES, AND CALCULATIONS PREPARED, STAMPED, AND SIGNED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER. ALL COSTS ASSOCIATED WITH SHORING ABUTMENT #1, IF APPLICABLE, SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 540.10, "PRECAST CONCRETE STRUCTURE (ABUTMENT#1)(BRO 1448(41))" AND 900.645, "SPECIAL PROVISION, (CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURE)(ABUTMENT#1)(BRO 1448(41))".
- 23. PROPOSED SEQUENCE OF SUBSTRUCTURE CONSTRUCTION:
 - a. DAILY BRIDGE CLOSURES:
 - i. PRE-EXCAVATE HOLES FOR PILES.
 - ii. BACKFILL HOLES WITH SAND.
 - b. BRIDGE CLOSURE PERIOD:
 - i. PREPARE AND GRADE FOUNDATION TO REQUIRED ELEVATION.
 - ii. DRIVE PILES.
 - iii. PLACE PRECAST ABUTMENTS.
 - iv. INSTALL ANCHOR BOLTS AND SECURE IN FINAL POSITION.
 - v. FILL ABUTMENT PILE CAVITIES WITH ITEM 900.608, "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, RAPID SET)(FPQ)".
 - vi. GROUT ANCHOR BOLTS IN ABUTMENT ANCHOR BOLT CAVITIES.
 - vii. INSTALL TEMPORARY SHORING FOR ABUTMENT #1 BEFORE BACKFILLING (IF APPLICABLE).
 - viii. THE PILE CAVITY CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3.5 KSI BEFORE ABUTMENT #2 BACKFILL IS PLACED AND PRESTRESSED SLABS ARE ERECTED. SHORED ABUTMENTS MAY BE BACKFILLED IMMEDIATELY FOLLOWING PILE CAVITY CONCRETE PLACEMENT IF SHORING DESIGN ALLOWS.

- 24. ALTERNATE SEQUENCE OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL BY THE PROJECT MANAGER.

PRESTRESSED SOLID SLABS

- 25. DESIGN VALUES:
 - a. CONCRETE COMPRESSIVE STRENGTH: f_c = 8 KSI
 - b. CONCRETE COMPRESSIVE STRENGTH AT RELEASE: f_{ci} = 6 KSI
 - c. PRESTRESSING STRANDS: 0.6 INCH DIAMETER, 270 KSI, LOW-RELAXATION 7-WIRE STRANDS
 - d. JACKING FORCE PER PRESTRESSING STRAND = 44 KIPS
 - e. POST-TENSIONING STRANDS: 0.6 INCH DIAMETER, 270 KSI, LOW RELAXATION 7-WIRE STRANDS
 - f. JACKING FORCE PER POST-TENSIONING STRAND = 47 KIPS
 - g. THERE SHALL BE 2 STRANDS PER POST-TENSIONING DUCT.
 - h. ASSUMED MODULUS OF ELASTICITY FOR THE STRAND IS 28,500 KSI.

- 26. DUE TO STABILITY CONCERNS AT THE ABUTMENTS DURING THE ERECTION OF THE SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT THE ERECTION PLAN A MINIMUM OF 30 WORKING DAYS PRIOR TO THE BRIDGE CLOSURE PERIOD. UNDER NO CIRCUMSTANCES SHALL A BRIDGE CLOSURE PERIOD BEGIN PRIOR TO HAVING AN ACCEPTED ERECTION PLAN.

- 27. THE METHOD OF FORMING FOR SUBSEQUENT POURS AFTER PLACING PRECAST/PRESTRESSED SUPERSTRUCTURE UNITS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR IS ENCOURAGED TO WORK WITH THE FABRICATOR IF ADDITIONAL SUPPORTS MAY BE REQUIRED. IN NO CASE SHALL THE CONTRACTOR ATTACH ADDITIONAL FORM OR SCREED SUPPORTS BY DRILLING OR SIMILAR MEANS INTO ANY PRECAST/PRESTRESSED SUPERSTRUCTURE UNIT.

- 28. ALL POST-TENSIONING STRAND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 510 - PRESTRESSED CONCRETE. PAYMENT FOR GALVANIZED ANCHOR ASSEMBLIES, DUCTS, AND POST-TENSIONING STRANDS SHALL BE INCLUDED UNDER ITEM 900.640, "SPECIAL PROVISION, (PRESTRESSED CONCRETE SOLID SLABS)(21" x 48")".

- 29. PROPOSED SEQUENCE OF SUPERSTRUCTURE CONSTRUCTION:
 - a. LAY OUT WORKING LINES THE ENTIRE WIDTH OF THE BRIDGE ALONG CENTERLINE OF BEARING, MEASURED FROM A SINGLE WORKING POINT. THE WORKING LINES SHALL BE BASED ON THE NOMINAL PRESTRESSED SLAB WIDTHS.
 - b. VERIFY THE BRIDGE SEAT ELEVATIONS AND TAKE CORRECTIVE ACTION IF NECESSARY.
 - c. POWER WASH ALL SURFACES THAT WILL BE IN CONTACT WITH GROUT.
 - d. INSTALL BEARINGS.
 - e. ERECT THE PRESTRESSED SLABS TO FIT WITHIN THE WORKING LINES.
 - f. ADJUST THE EXTERIOR SLAB SO THAT THE FASCIA FITS SNUG AGAINST THE CORK ON INTERIOR OF CHEEK WALL.
 - g. INSTALL HARDWOOD WEDGES BETWEEN ADJACENT SLABS TO MAINTAIN PROPER JOINT OPENING (A MINIMUM OF ONE WEDGE AT EACH TRANSVERSE POST-TENSIONING LOCATION).
 - h. INSTALL BACKER ROD BELOW THE BOTTOM OF THE KEYWAY.
 - i. INSTALL POST-TENSIONING STRANDS AND TENSION TO 3 KIPS TO REMOVE SAG AND SEAT CHUCK.
 - j. PUMP GROUT FROM LOW END OF BRIDGE SEAT THROUGH ANCHOR BOLT DUCTS CLOSEST TO THE FASCIA TO FILL VOID BETWEEN BRIDGE SEAT AND BOTTOM OF PRESTRESSED SLABS. PUMP GROUT UNTIL ALL ANCHOR BOLT DUCTS ARE FULL.
 - k. INSTALL ANCHOR PLATES, WASHERS AND NUTS FOR ANCHOR BOLTS.
 - l. GROUT SHEAR KEYS.
 - m. FULLY TENSION TRANSVERSE TENDONS. POST-TENSIONING OF TRANSVERSE TENDONS WILL BE PERMITTED ONCE SHEAR KEY GROUT HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 600 PSI. THE GROUT NEED NOT BE CURED FOR THREE DAYS PRIOR TO COMMENCING OF POST-TENSIONING. THE CONTRACTOR SHALL MOLD AND CURE A SUFFICIENT NUMBER OF CUBES DURING THE GROUT PLACEMENT FOR TESTING.

- 30. ALTERNATE SEQUENCE OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL BY THE PROJECT MANAGER.

H-PILES

- 31. THE PILES SHALL BE HP 12x84.
- 32. TO PREVENT DAMAGE TO THE PILES, PILE SHOES ARE REQUIRED AND SHALL CONFORM TO SUBSECTION 505.04 (f).
- 33. ALL PILE LOCATIONS SHALL BE PRE-EXCAVATED WITH A MINIMUM PENETRATION OF 3 FEET INTO COMPETENT BEDROCK. THIS WORK SHALL BE DONE DURING DAILY BRIDGE CLOSURES IN A 14 DAY PERIOD PRIOR TO THE BRIDGE CLOSURE PERIOD.
- 34. IN ORDER TO BE CONSIDERED PART OF THE 3 FOOT PENETRATION INTO COMPETENT BEDROCK, THE HOLES SHALL BE BETWEEN 24 AND 30 INCHES IN DIAMETER. THE ENTIRE PRE-EXCAVATED HOLE SHALL BE BACKFILLED WITH SAND CONFORMING TO THE REQUIREMENTS OF SUBSECTION 703.03.
- 35. THE PILES SHALL BE DRIVEN TO A NOMINAL AXIAL RESISTANCE OF 253 KIPS. DYNAMIC PILE LOADING TESTS ARE NOT REQUIRED.
- 36. THE TOPS OF THE PILES AFTER DRIVING SHALL NOT VARY FROM THE POSITION SHOWN ON THE PLANS BY MORE THAN 3 INCHES. THE PILE ORIENTATION SHALL NOT VARY BY MORE THAN 5 DEGREES. THE CONTRACTOR SHALL DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER HOW THE TOLERANCES WILL BE MET. THESE MEASURES SHALL BE DEMONSTRATED IN A SUBMITTAL TO BE ACCEPTED BEFORE PILE DRIVING COMMENCES.
- 37. FOR ESTIMATING PURPOSES, THE PILE TIP ELEVATIONS WERE ASSUMED AS SHOWN ON THE BORING LOGS. THE ACTUAL IN PLACE LENGTHS MAY VARY.

MISCELLANEOUS

- 38. EXISTING CONDITIONS SHEET HAS BEEN INCLUDED FOR THE CONTRACTOR TO USE FOR SUBMITTALS.

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: BRO 1448 (41)	
FILE NAME: sl2j170gen.dgn	PLOT DATE: 11-SEP-2014
PROJECT LEADER: R. YOUNG	DRAWN BY: R. KLINEFELTER
Y: R. KLINEFELTER	CHECKED BY: J. SALVATORI
JTES	SHEET 40 OF 69

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December 16, 2014

RESUBMIT YES Rejected
BY RY DATE 12-24-2014

TCP2

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIGNS AND BARRICADES SHOWN ON THIS SHEET AND SIDE ROAD APPROACH SIGNING ON VT ROUTE 36. THEY SHALL BE PAID FOR UNDER ITEM 900.645, "SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)".
2. TEMPORARY TRAFFIC BARRIER AT EACH END OF THE PROJECT SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621 AND PAYMENT SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 900.645, "SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)".
3. SIDE ROAD APPROACH SIGNING SHALL BE INSTALLED ON VT 36 IN ACCORDANCE WITH STANDARD T-10.

* = OMIT SIGNS BETWEEN BRIDGE AND VT 36.

Due to the limited sight distance at the VT36/TH47 intersection, please show the type and location of all traffic control devices planned for use when pre-cast elements are delivered as well as other material and equipment deliveries are made.

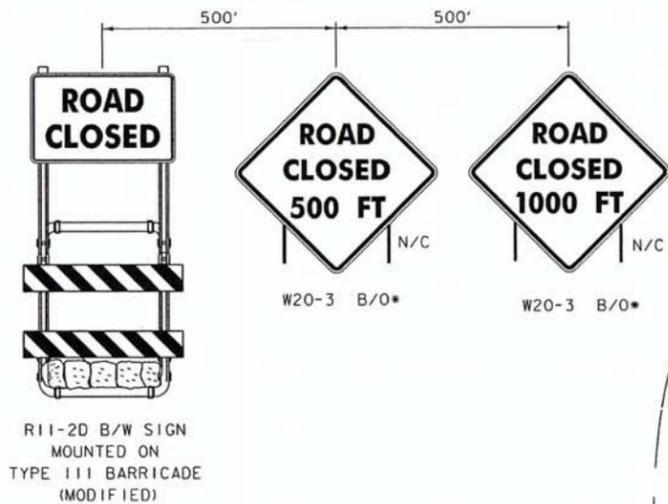
Poor sight distance on approaches. Should show position of flaggers.

and sign locations for flagger sign package

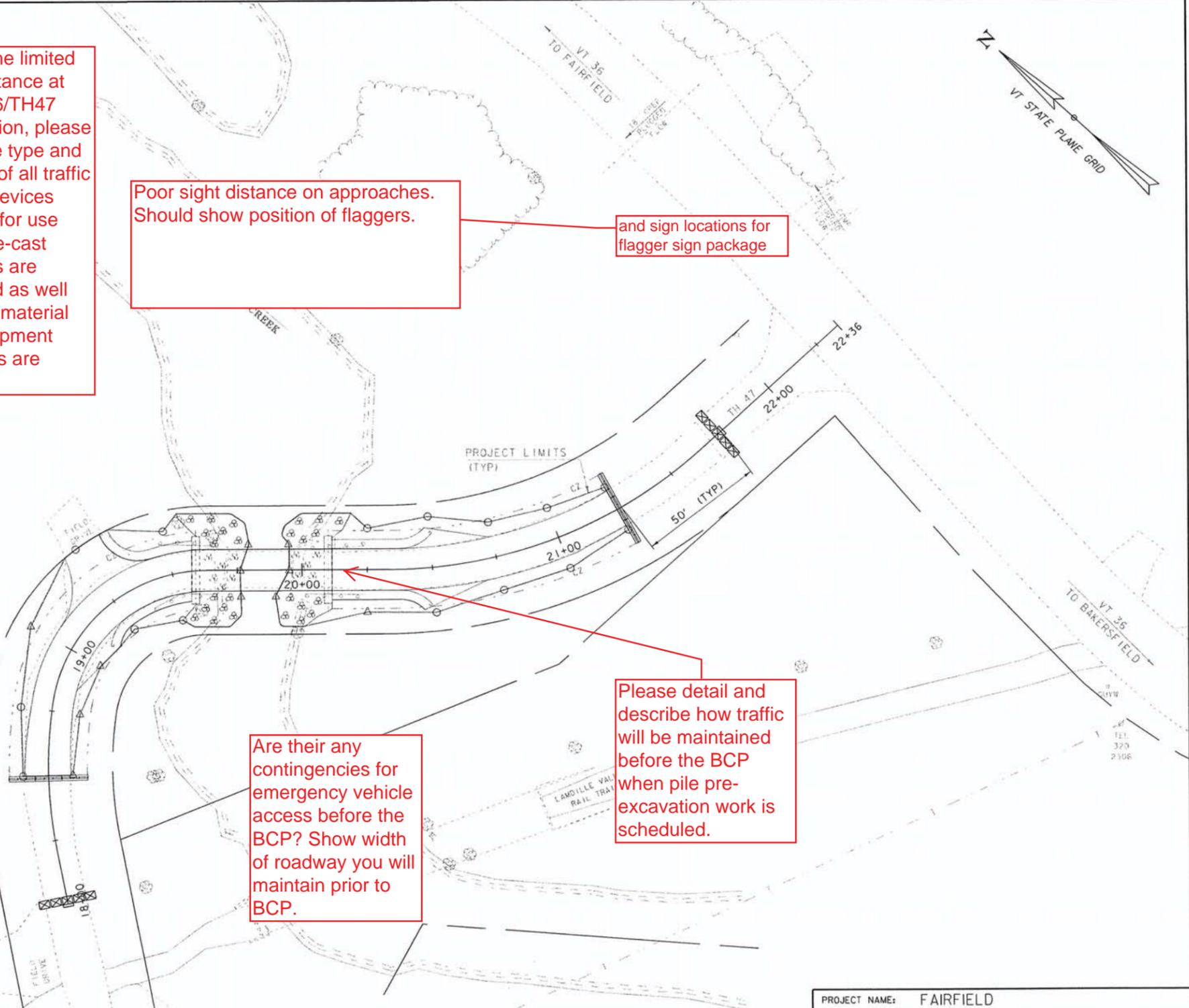
Please detail and describe how traffic will be maintained before the BCP when pile pre-excitation work is scheduled.

Are there any contingencies for emergency vehicle access before the BCP? Show width of roadway you will maintain prior to BCP.

Where is the lighting for access through the workzone at night and during the BCP?



LEGEND	
N/C	- NEW/CONSTRUCTION ONLY
B/O	- BLACK/ORANGE
B/W	- BLACK/WHITE
☒	- TYPE III BARRICADE
☒	- TYPE III BARRICADE (MOD.)
▬	TEMPORARY TRAFFIC BARRIER



TRAFFIC LAYOUT SHEET

SCALE 1" = 20'-0"
20 0 20

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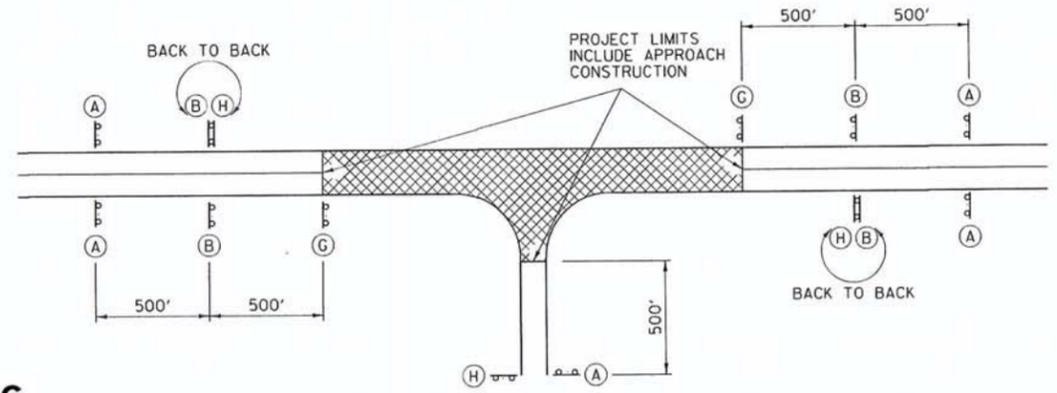
RESUBMIT YES Rejected
BY RY DATE 12-24-2014

PROJECT NAME: FAIRFIELD	PLOT DATE: 10-SEP-2014
PROJECT NUMBER: BRO 1448(41)	DRAWN BY: K. FRIEDLAND
FILE NAME: si2j70traff.dgn	CHECKED BY: J. SALVATORI
PROJECT LEADER: R. YOUNG	SHEET 49 OF 69
DRAWN BY: R. KLINEFELTER	
TRAFFIC LAYOUT SHEET	

TCP3

LEGEND

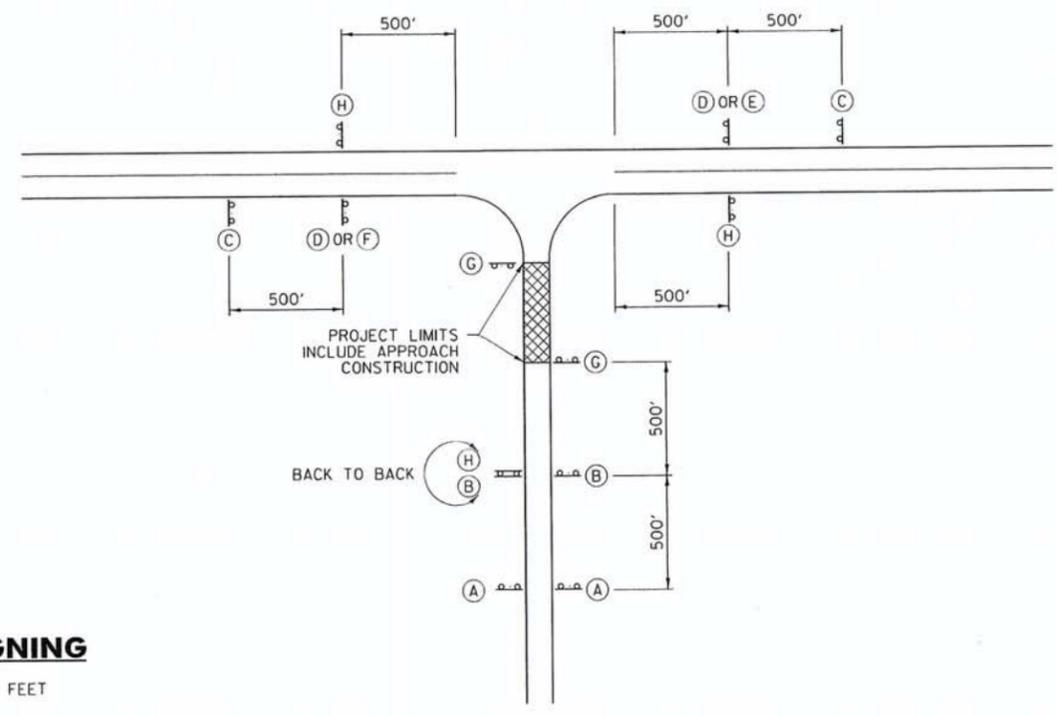
- (A)  ROAD WORK AHEAD
W20-1
- (B)  ROAD WORK 500 FT
W20-1
- (C)  SIDE ROAD WORK AHEAD
VC-869
- (D)  SIDE ROAD WORK 500 FT
VC-869
- (E)  SIDE ROAD WORK LEFT
VC-869
- (F)  SIDE ROAD WORK RIGHT
VC-869
- (G)  ROAD WORK NEXT XX MILES
G20-1
- (H)  END ROAD WORK
G20-2



TYPICAL APPROACH SIGNING

FIELD CONDITIONS MAY DICTATE THE ACTUAL PLACEMENT.

Identify what is being used on this sheet, add road names for clarity.



SIDE ROAD APPROACH SIGNING

TO BE USED WHEN CONSTRUCTION IS UP TO 1000 FEET FROM THE INTERSECTION. FIELD CONDITIONS MAY DICTATE THE ACTUAL PLACEMENT.

GENERAL NOTES:

1. SIGNS SHOWN ON THIS SHEET ARE INTENDED FOR USE IN PROVIDING ADVANCE WARNING AND INFORMATION ON CONSTRUCTION PROJECTS OVER WHICH TRAFFIC WILL BE MAINTAINED. WHEN ADDITIONAL APPROACH SIGNS OR OTHER TYPES OF ADVANCE SIGNING OR CONTROL ARE NECESSARY, THE PLANS AND/OR THE SPECIFICATIONS FOR THAT PROJECT WILL GIVE THE DETAILS OF THE SIGNS AND DEVICES REQUIRED. FOR ON-PROJECT CONSTRUCTION SIGNS, REFER TO APPROPRIATE STANDARD SHEETS.
2. THE "ROAD WORK NEXT XX MILES" SIGN (G20-1) SHALL BE INSTALLED IN ADVANCE OF TEMPORARY TRAFFIC CONTROL ZONES THAT ARE MORE THAN TWO MILES IN LENGTH OR AS DIRECTED BY THE ENGINEER. DISTANCES SHALL BE STATED TO THE NEAREST WHOLE MILE.
3. SIGNS SHALL BE LOCATED AS DETAILED ON THIS SHEET OR AS OTHERWISE SHOWN ON THE PLANS. THEY SHALL APPEAR AT EACH END OF THE HIGHWAY UNDER CONSTRUCTION AND ON ALL INTERSECTING PUBLIC HIGHWAYS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS.

OTHER STDS. REQUIRED: T-1, T-28

REVISIONS AND CORRECTIONS
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED
[Signature]
HIGHWAY SAFETY & DESIGN ENGINEER
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT
[Signature]
MARK D. RICHTER
FEDERAL HIGHWAY ADMINISTRATION

**CONVENTIONAL ROADS
CONSTRUCTION APPROACH
SIGNING**



STANDARD
T-10

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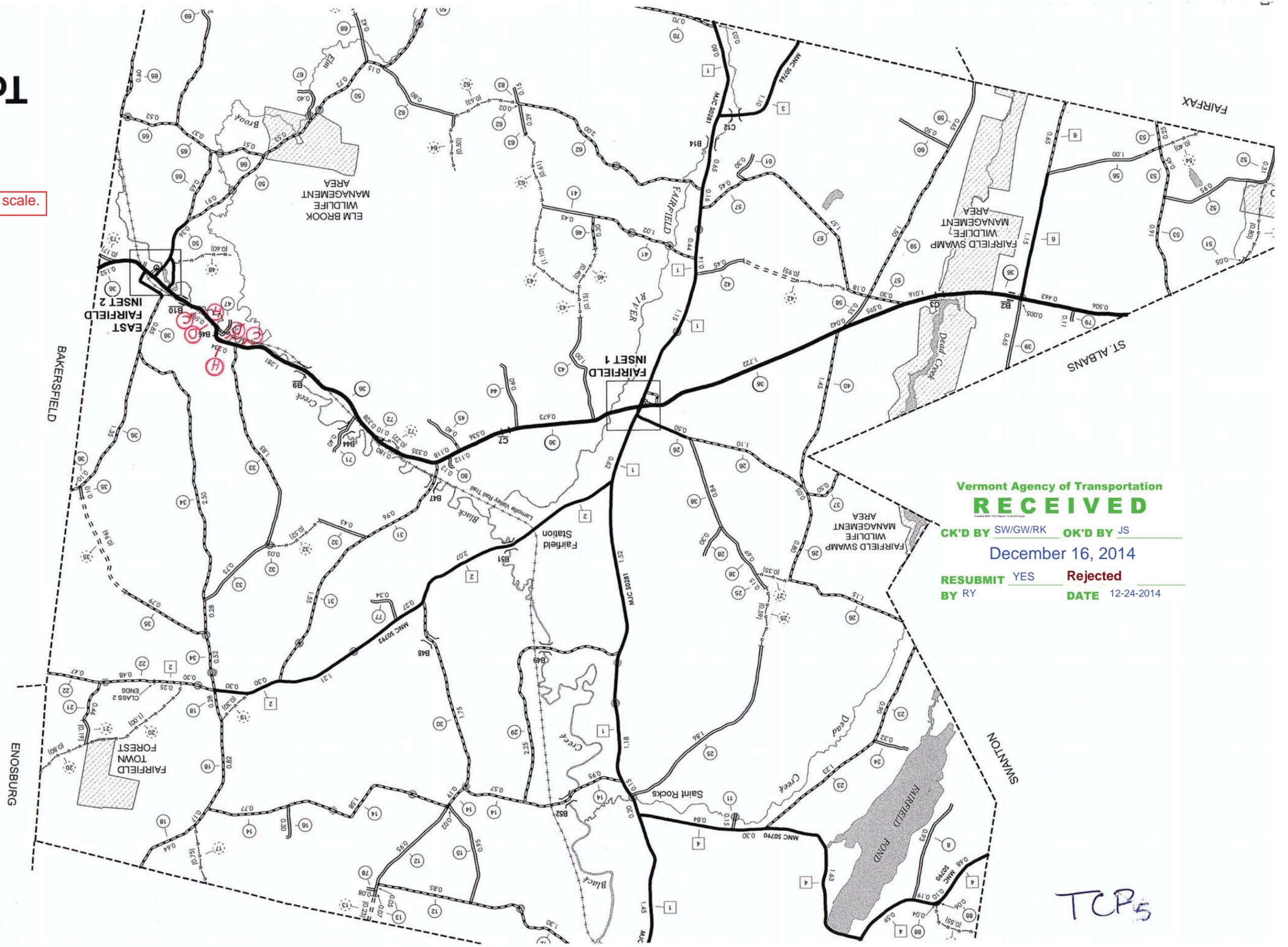
December 16, 2014

RESUBMIT YES **Rejected**
BY RY DATE 12-24-2014

TCP4

Top
G

Not legible at this scale.



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RESUBMIT YES Rejected
BY RY DATE 12-24-2014

TCP5