casella CONSTRUCTION INC.
SITE DEVELOPMENT, EXCAVATION, DEMOLITION
WATER AND SEWER SYSTEMS
AGGREGATE OPERATIONS

Solid Waste Management
Landfill Sitework and Closures
8 U.S. ROUTE 4 EAST, MENDON, VERMONT 05701 802/773-0052
FAX 802/747-7992

Submittal

To: State of Vermont Agency of Transportation
Southwest Regional Construction Office
61 Valley View
Mendon, VT 05701

Date: April 10, 2015
Project: Shrewsbury STP 1443 (44)

Contract: Shrewsbury STP 1443 (44)

Attention: Tim Pockette (RE), Bill Farley (Asst CEE)

From: Jacob Robinson

Copies	CCI Submittal Number	Specification Section	Description
Electronic	5R1	900.645	Special Provision Traffic Control Plan

Contractors Review and Comments

Reviewed By: Jacob Robinson/Jeff Chase

Comments: The attached Traffic Control Plan was prepared by Nathan Sicard of Ruggles Engineering Services, Inc. The intention of this plan is to adhere to MUTCD and VAOT standards.

Engineers Review Stamp and Comments

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April 13, 2015

RESUBMIT NO Approved

BY C. CARLSON DATE 04/14/15

SITE SPECIFIC

TRAFFIC CONTROL PLAN

FOR

Shrewsbury STP 1443 (44)

(State of Vermont, Agency of Transportation

Town Highway 4, Lincoln Hill Road, Shrewsbury, VT)

FOR

casella CONSTRUCTION, INC.

25 Industrial Lane
Mendon, VT 05701

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April, 2015

Prepared by:

STATE OF VERMONT
CHRISTIAN P. SICARD
No. 53831
Civil
LICENSED
PROFESSIONAL ENGINEER

RUGGLES ENGINEERING SERVICES INC.

Ruggles Engineering Services, 4580 Memorial Drive, St. Johnsbury, VT 05819
www.rugglesengineeringservices.com

SECTION 1 – GENERAL INFORMATION

1.1 Purpose:

The purpose of this Traffic Control Plan is to present site specific construction methods for work zone traffic control. This work consists of furnishing, installing, maintaining and removing traffic control devices necessary to provide reasonable protection & advanced warning for motorists, pedestrians and construction workers.

A copy of this Traffic Control Plan will be available at the construction site through the Key Personnel listed in section 1.5.

1.2 Description of Project:

The project includes the removal and replacement of an existing culvert on Town Highway 4 in Shrewsbury. The culvert will be replaced with a precast concrete arch bridge. The project will require the road to be shut down to replace the structure. This project will include the need for traffic control devices phased throughout the project.

Work within this traffic control plan will include the installation of permanent traffic control signs, barriers, closures, removal and replacement of the permanent structure and miscellaneous approach and shoulder work.

Work which requires temporary traffic control with flaggers will occur during daylight hours, Monday through Friday.

1.3 Work Zone Limitations

a. <u>Speed Limit</u>
The speed limit is 35 MPH, speeds from the west are anticipated to be slower to the adjacent intersection.

b. <u>Pedestrian Traffic</u>
The project is on a rural local road, however there are adjacent homes. Construction fencing will be used near drop offs and work zone signs will be available to notify pedestrians of the danger.

c. <u>Closure</u>
A closure will be used to replace the culvert. Lane closures will use daily lane closure signs (One Lane Road Ahead, Be Prepared to Stop, Flagger). These signs will be placed at 500 foot increments or less

d. <u>Roadway Surface Conditions</u>

Signs for "Pavement Ends" and "Bump" will be u
be open and the pavement has been removed.

e. <u>Temporary Pavement Markings</u>

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Temporary Pavement markings will not be used on the project.

f. <u>Detours</u>

The Town is responsible for detour routes during the closure period.

g. <u>Signage</u>

- Portable signs will be placed on the edge of the roadway and a minimum of 1 foot above the travel way.
- Vegetation that interferes with the visibility of the signs will be removed
- When signs are placed behind Guardrails, the sign face will be above the top of the rail.

1.4 Flaggers and UTO's utilized in the Work Zones

Flaggers will be used during daily closures.

Flaggers:

- Whenever flaggers are used the FLAGGER AHEAD sign or symbol will be incorporated in the work zone sign package for proper advance notice of the presents of the flagger.
- Sufficient certified flaggers will be available onsite to provide for continuous flagging operations during break periods as needed.
- Flaggers will be informed in advance of the traffic plan and their responsibilities during the daily construction on the project. Any changes throughout the day during construction will be relayed to the flaggers to provide a safe working environment for the construction personnel and the traveling public.
- Flaggers will have two way radio communications.
- See the hand signal figure in the Appendix in case of radio failure or for emergencies.

Uniform Traffic Officers (UTO) will not be used on the project.

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1.5 Key Personnel and Contact Info:

Casella Construction
Jeff Chase, Senior Engineer

Office	(802) 773-0052
Cell	(802) 282-1607

Ruggles Engineering Services, Inc.
Nathan P. Sicard, P.E.

Office	(802) 748-5898

1.6 Emergency Contact Information

The following is a list of contact numbers for notifying the Resident & local emergency officials, and local government officials whenever significant traffic impacts are anticipated or an emergency occurs.

EMERGENCY PHONE NUMBERS:

FIRE – POLICE – AMBULANCE …… ….911

Judy Gilmore, Project Resident (VAOT Resident)	(802) 793-1606

Casella Senior Engineer

Jeff Chase, Senior Engineer	(802) 282-1607
Brad Matteson, Field Superintendent	(802) 779-1523

Town of Shrewsbury

Jamie Carrara, Highway	(802) 492-3656
Town Clerk	(802) 492-3511

VTrans District Garage

Clarendon	(802) 773-3055

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SECTION 2 – CONSTRUCTION PHASING AND SEQUENCING

2.1 GENERAL:

The phasing of the traffic control plan will be coordinated with the Project Schedule. Although no issues or conflicts are expected, weekly meetings will be held as required to discuss any issues that may arise, to resolve any conflicts on this portion of the project and to ensure the least possible disruption to the traveling public as possible.

2.2 PHASE 1 – Installation of Permanent Signage:

Phase 1 will include the installation of Permanent Project Approach Signing for the work. Signs will be installed as described in the following Plan. Signs will be covered when not in use.

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Note: Drawing is required per special provisions 900.645 (Traffic Control, All Inclusive)

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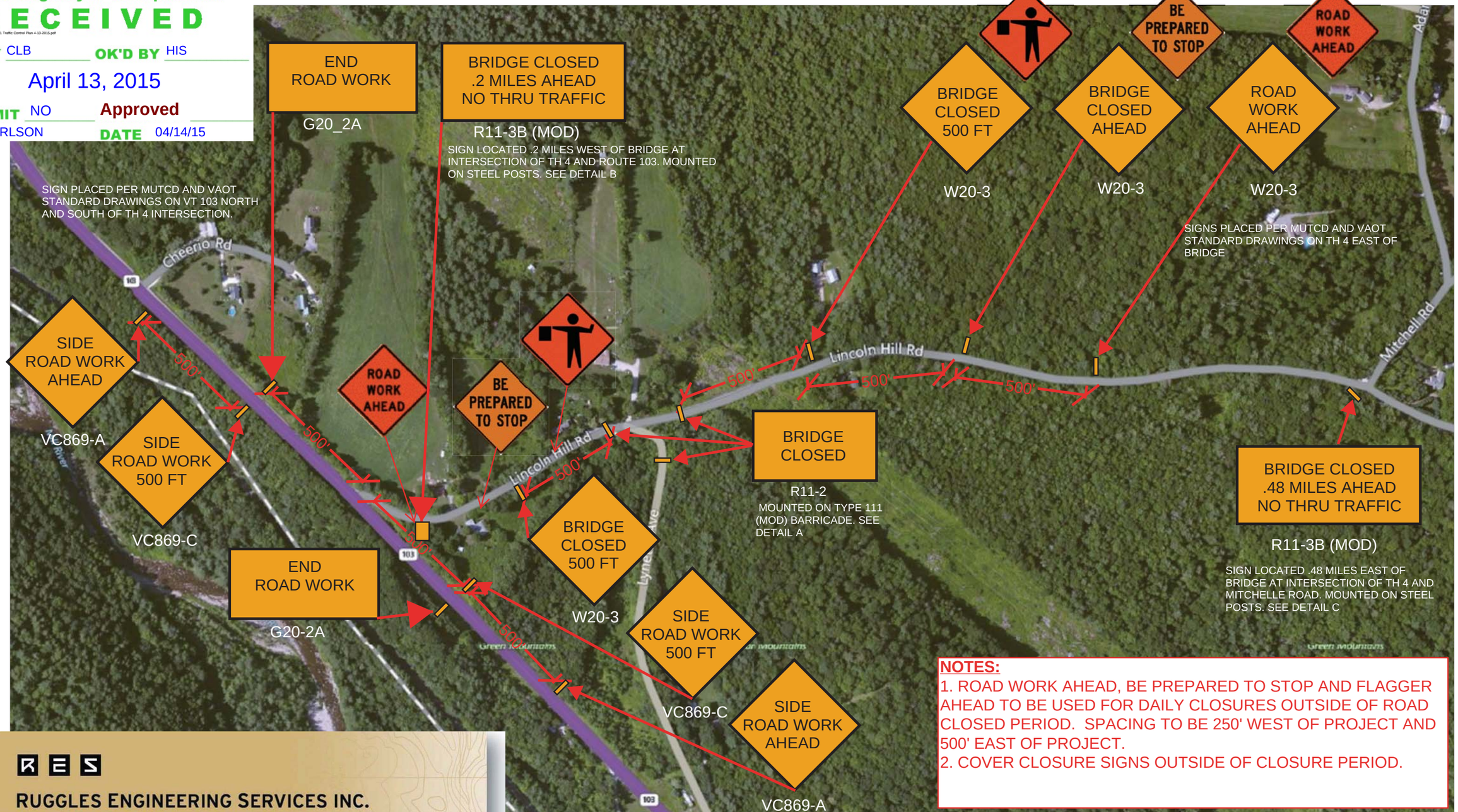

NOTES:
1. ROAD WORK AHEAD, BE PREPARED TO STOP AND FLAGGER AHEAD TO BE USED FOR DAILY CLOSURES OUTSIDE OF ROAD CLOSED PERIOD. SPACING TO BE 250' WEST OF PROJECT AND 500' EAST OF PROJECT.
2. COVER CLOSURE SIGNS OUTSIDE OF CLOSURE PERIOD.

RES
RUGGLES ENGINEERING SERVICES INC.
4580 Memorial Drive, St. Johnsbury, VT 05819 (802) 748-5898 www.rugglesengineeringservices.com

casella CONSTRUCTION, INC.

CASELLA CONSTRUCTION, INC.
25 INDUSTRIAL LANE
MENDON, VERMONT 05701
PHONE: 802.773.0052
FAX: 802.747.7992

PROJECT: SHREWSBURY STP 1443 (44)
SHREWSBURY, VERMONT

DRAWING: Traffic Control Plan

VERMONT AGENCY OF TRANSPORTATION
ONE NATIONAL LIFE DRIVE
MONTPELIER, VT 05633

DRAWN BY:	JDR
PREPARED BY:	JC, EIT
DATE:	02/11/15
DRAWING NUMBER:	1 of 2
DRAWING SCALE:	

2.3 PHASE 1I – ROAD CLOSED DETOUR:

Phase 2 will include the installation of Permanent Project Approach Signing for the work during the 2015 construction season while the road is detoured. Additional signs will be used to create the closure and all permanent closure signs will be uncovered.

All detour signs will be dealt with by the Town.

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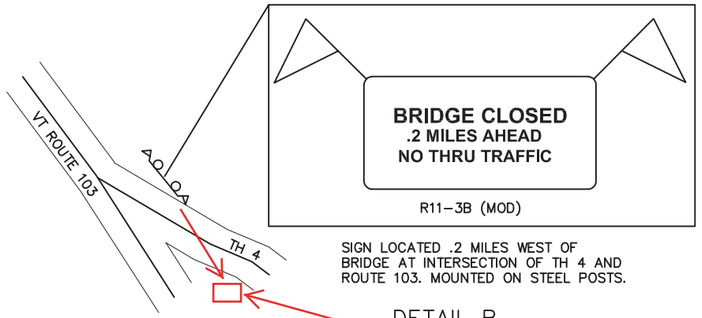
TYPE 3 BARRICADE **



BRIDGE CLOSED LOCATION MAP

BRIDGE CLOSED
.2 MILES AHEAD
NO THRU TRAFFIC

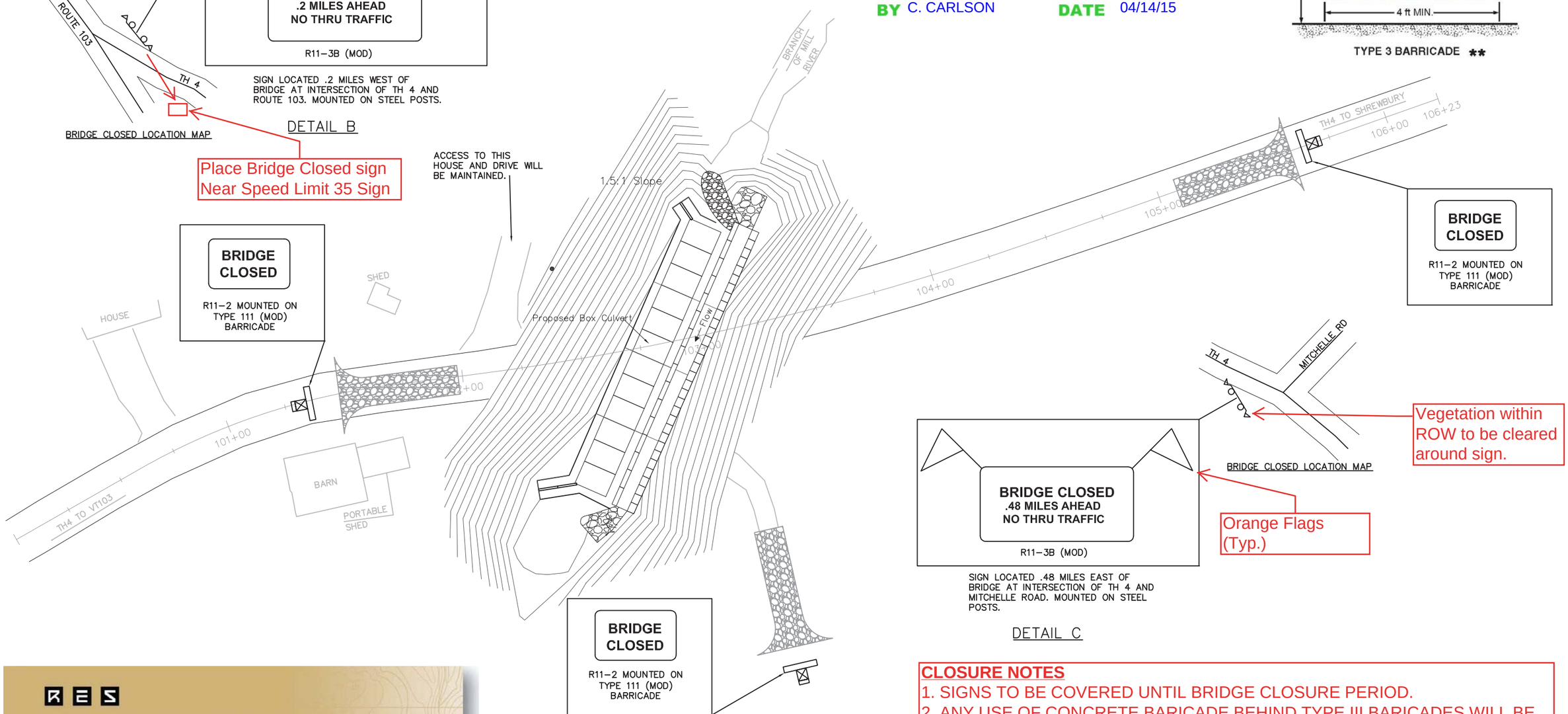
R11–3B (MOD)

SIGN LOCATED .2 MILES WEST OF BRIDGE AT INTERSECTION OF TH 4 AND ROUTE 103. MOUNTED ON STEEL POSTS.

DETAIL B

Place Bridge Closed sign Near Speed Limit 35 Sign

ACCESS TO THIS HOUSE AND DRIVE WILL BE MAINTAINED.



BRIDGE CLOSED

R11–2 MOUNTED ON TYPE 111 (MOD) BARRICADE

BRIDGE CLOSED

R11–2 MOUNTED ON TYPE 111 (MOD) BARRICADE

BRIDGE CLOSED

R11–2 MOUNTED ON TYPE 111 (MOD) BARRICADE

DETAIL A

Vegetation within ROW to be cleared around sign.

BRIDGE CLOSED LOCATION MAP

BRIDGE CLOSED
.48 MILES AHEAD
NO THRU TRAFFIC

R11–3B (MOD)

Orange Flags (Typ.)

SIGN LOCATED .48 MILES EAST OF BRIDGE AT INTERSECTION OF TH 4 AND MITCHELLE ROAD. MOUNTED ON STEEL POSTS.

DETAIL C

CLOSURE NOTES

1. SIGNS TO BE COVERED UNTIL BRIDGE CLOSURE PERIOD.
2. ANY USE OF CONCRETE BARICADE BEHIND TYPE III BARICADES WILL BE NO LESS THAN 40 FEET BEYOND TYPE III BARICADE STAGERED TO ALLOW TRUCK ACCESS OR EMERGENCY MANOUVERS.

RES
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CASELLA CONSTRUCTION, INC.

25 INDUSTRIAL LANE
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PHONE: 802.773.0052
FAX: 802.747.7992

PROJECT: SHREWSBURY STP 1443 (44)
SHREWSBURY, VERMONT

DRAWING: Traffic Control Plan

VERMONT AGENCY OF TRANSPORTATION

ONE NATIONAL LIFE DRIVE
MONTPELIER, VT 05633

DRAWN BY:	JDR
PREPARED BY:	JC, EIT
DATE:	02/11/15
DRAWING NUMBER:	2 of 2
DRAWING SCALE:	

2.4 Final Road Work and Clean Up.

Once the arch bridge is backfilled and road materials are suitable for traffic, the road will be opened as required and daily work may use one way traffic packages for final paving, guardrail and demobilization.

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State of Vermont
Southwest Regional Construction Office
61 Valley View
Mendon, VT 05701
www.aot.state.vt.us

Agency of Transportation

[phone] 802-773-1384
[fax] 802-786-5894

March 26, 2015

Jeff Chase
Casella Construction Inc.
Rte 4 East
Mendon, VT 05701

Subject: Subject: **Shrewsbury STP 1443(44)** –Temporary Traffic Control Plan

Jeff:

We have reviewed the Temporary Traffic Control Plan, dated March 25, 2015, for the above mentioned projects and it is here by accepted.

This acceptance is for the temporary lane closures for the clearing of trees between March 30th and April 3rd. This temporary traffic control plan shall need to be submitted with your Professional Engineer designed traffic control plan as per Standard Specifications 641 and 105.03.

Please let me know if you have any questions.

Sincerely,

Timothy Pockette, PE
Resident Engineer

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cc: Montpelier Project Files
Regional Project File

VTrans Working to Get You There
Vermont Agency of Transportation

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

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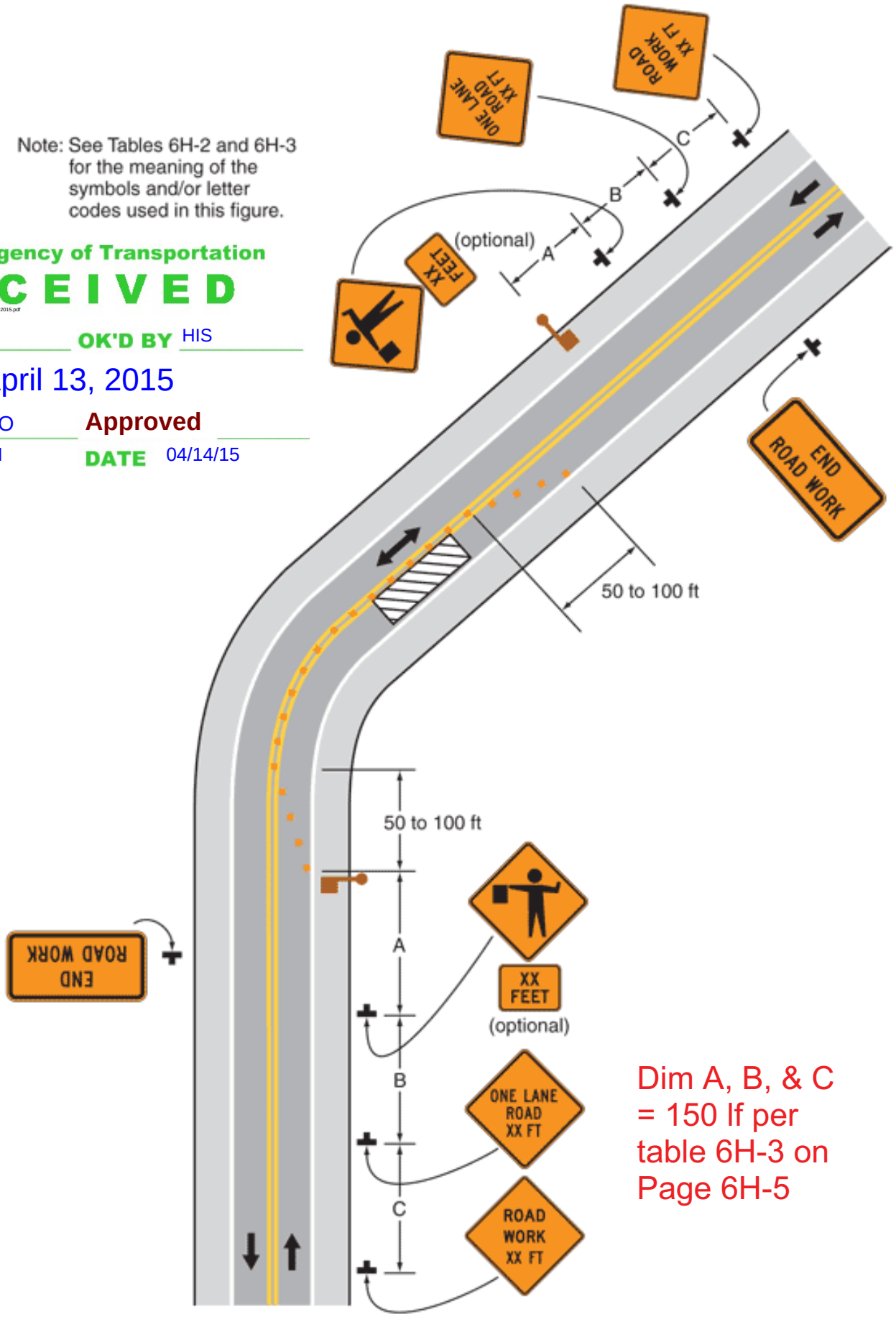

Dim A, B, & C = 150 lf per table 6H-3 on Page 6H-5

Typical Application 10