FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Brattleboro Contact Person(s): Hannah O'Connell

Address: 211 Fairground Road, Brattleboro, VT 05301

Street Address *Town* *Zip*

Email: hoconnell@brattleboro.org Phone: (802) 254 - 4255

DUNS #: 73995169 Fiscal Year End Month (MM): 6

Accounting System: ☒ Automated ☐ Manual ☐ Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- ☑ Grant application cover sheet (Only submit one)
- ☑ Grant application form (One per category/project)
- ☑ Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- ☑ Project Location Map (please show location of affected water)
- ☑ Sketch of proposed erosion control measures or other management practices, including distances in feet
  - Also show approximate location of town/other right-of-way and/or property lines
- ☑ Photo(s) of the project area
- ☑ Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- ☑ If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation

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Clean Water You Can Afford

VTrans Working to Get You There
VERMONT
AGENCY OF NATURAL RESOURCES

Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- [ ] B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- [x] C. Correction of a Stream Bank or Slope Related Problem
- [ ] D. Structure/culvert upgrades

Town/Organization: Town of Brattleboro

Project Name: Bonnyvale Road Wall Replacement

Road Name: Bonnyvale Road **TH #:** 710 **Structure # (if applicable):** _____

Road Type: Paved Uncurbed

Class 3

Watershed: Whetstone Brook Watershed

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

At the intersection of Bonnyvale Road and Western Avenue, there is a failing, stone retaining wall along the Bonnyvale Brook. Failure of the retaining wall is causing the guardrail and road to fail as well.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Remove the existing stone wall and reconstruct a new Redi-rock wall. Please see attached plans and cost estimate.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

This will eliminate erosion along this section of the brook and also stabilize the roadway. This will elimate the possibility of a catastrophic failure that could create a large sediment and safety issue.

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Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:
The town currently has a design for this project.

Is there an emergency reason this project must be completed quickly? If yes, please explain:
As you can see from the pictures, this wall is failing rapidly. For the last three years, we have had to move the jersey barriers further due to the erosion encroaching on the roadway. This is a major route of travel from Guilford to Brattleboro and heavily residential. It is essential that we repair this wall this summer.

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

(●) Yes: Capital Budget Plan ( ) No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):
VTrans District Technical Staff is aware of this project
River Management Engineer, Todd Menees has been contacted

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).
Yes

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).
Town forces may supplement contracted crews as needed.

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Describe how the grant funds will be spent and/or attach a project budget:

The grant funds will supplement funds in the capital budget to complete construction of this project. We have also applied for a VTrans Structures Grant to supplement funding. A project budget is attached.

How do you plan to meet the required 20% match on this grant?:

The required 20% match for this grant can be met with Town Staff assisting contracted staff OR with capital funding.

Requested Grant Amount ($20,000 max Category B, $40,000 max Categories C & D): $ 40,000.00

Estimated Total Project Cost (including 20% local match): $ 261,950.00

Estimated Completion Date: _____

REQUIRED ATTACHMENTS:

- [x] Itemized Cost Estimate (labor, equipment, materials)
  (For assistance, call Better Backroads at 802-828-4585)
- [x] Project Location Map
  (Please show location of affected water; 1:12,000 USGS map, if possible)
- [x] Sketch of proposed erosion control measures, including:
  - [x] Distances (ft.)
  - [x] Estimate of waste & borrow quantities
  - [x] Approx. location of town/other right-of-way and/or property lines
- [x] Photo(s) of the project area.
- [ ] Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- [x] If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- [ ] Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: Betty B Shell Title: TOWN MANAGER

Town of Brattleboro
DEPARTMENT OF PUBLIC WORKS
211 Fairground Road, Brattleboro, Vermont 05301
Tel: 802-254-4255 • Fax: 802-257-2316 • E-mail: hoconnell@brattleboro.org

April 14th, 2016

To Whom it May Concern:

I have not included a cost estimate at this time for either project as we anticipate providing the match with our funding.

With regards to support from the ANR:

I spoke with Todd Menees earlier this week. He said to make sure that I put in the grant application that he has visited the site and looked at the plans with us. He is extremely busy and did not have an opportunity to provide a consultation at this time. He did say he would follow up with the BBR program on this project.

Sincerely,

Hannah O'Connell

Hannah O'Connell

WINDHAM
REGIONAL
COMMISSION

April 10, 2016

Hannah O'Connell
Town of Brattleboro, Public Works
Water and Highway Supervisor
211 Fairground Road
Brattleboro, Vt. 05301

Dear Hannah:
I am pleased to provide a letter of support for the Town of Brattleboro's application submission for a Category A and C Better Roads grant. Category A will provide an opportunity to assess the pavement condition on the town highways and develop a Capital Improvement Plan for long-term transportation infrastructure budgeting. For Category C, to lessen the impact on Bonnyvale Road, a key retaining wall needs to be rebuilt. This application conforms to the policies found in the Windham Regional Plan (September 2014):

> *1. Maintain and restore the chemical, biological, and physical quality of the region's surface water per the objective in State water regulations.*
>
> *2. Improve existing roads and design culverts and bridges to carry a 50-year flood event without damage.*

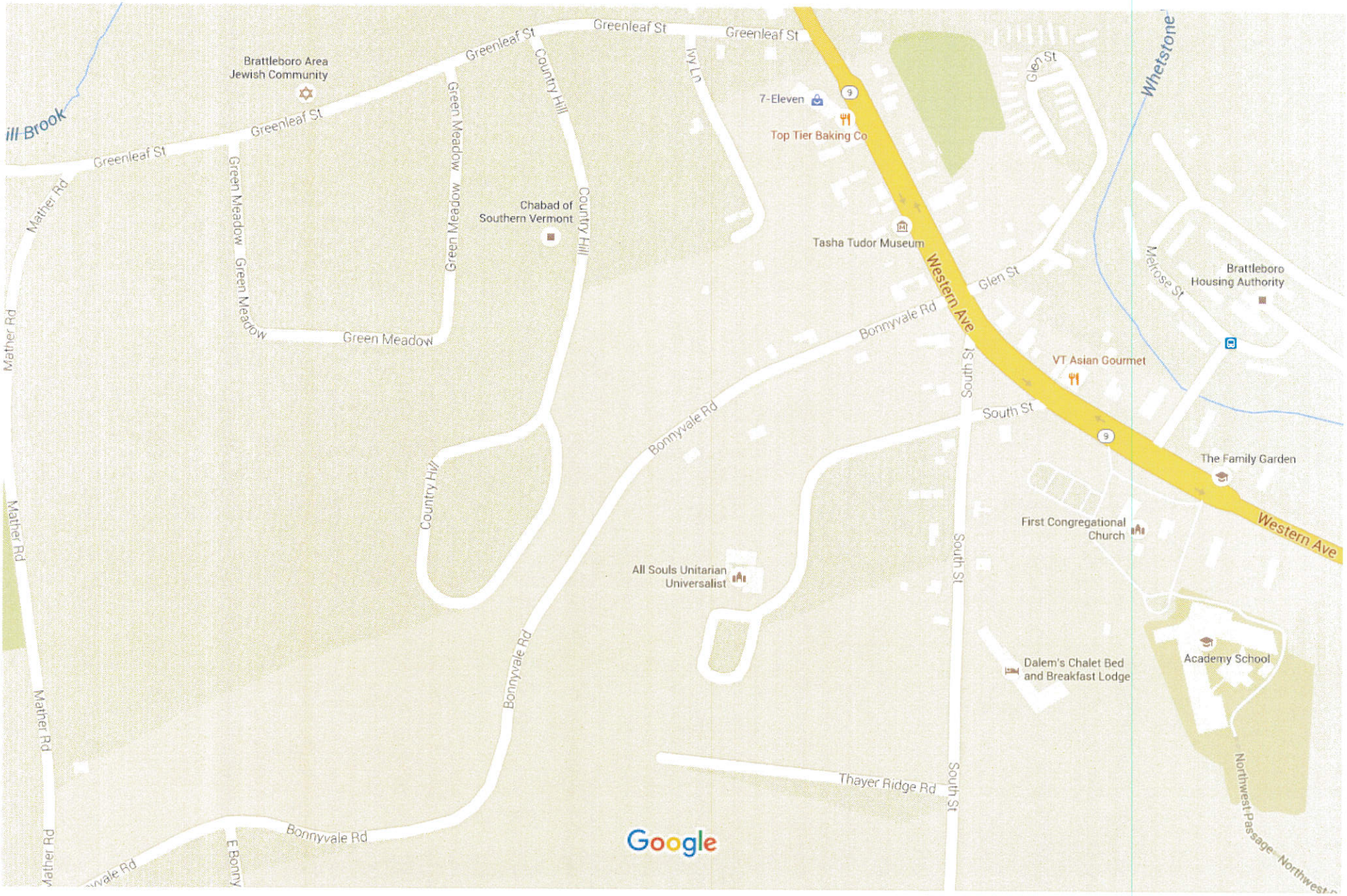
Please contact me if you have any questions.

Sincerely,

Matt Mann

Matt Mann
Senior Transportation Planner

Bonnyvale Rd



BELL ENGINEERING
CIVIL & ENVIRONMENTAL
17 ECHO COVE WAY-SPOFFORD, NH 03462
(603) 363-9966

BONNYVALE ROAD RETAINING WALL
COST ESTIMATE
8-27-2015

ITEM DESCRIPTION	UNIT QTY	UNIT EST.	UNIT	EXTENDED AMOUNT
MOBILIZATION, LAYOUT & GEN CONDITIONS	1	$ 2,000	LS	$ 20,000
COFFERDAM / BYPASS PIPE INSTALL	150	$ 200	LF	$ 30,000
EXCAVATION AND SOIL REMOVAL	400	$ 20	YD	$ 8,000
GURAD RAIL REMOVAL AND DISPOSAL	150	$ 15	LF	$ 2,250
EXCAVATE AND REMOVE ROADWAY	100	$ 30	YD	$ 3,000
UTILITY LINE REMOVAL	1	$ 10,000	LS	$ 10,000
STONE BASE FOR RETAINING WALL	35	$ 40	YD	$ 1,400
STRUCTUAL GRANULAR BACKFILL	150	$ 30	YD	$ 4,500
ROAD BASE	100	$ 25	YD	$ 2,500
RETANING WALL BLOCKS	1		LS	$ 30,000
INSTALLATION AND BACKFILL WALL	1300	$ 40	SQ FT	$ 52,000
COFFERDAM / BYPASS PIPE REMOVAL	1	$ 2,000	LS	$ 2,000
PREPARE ROAD BASE	100	$ 30	YD	$ 3,000
RIP RAP TYPE III	120	$ 20	YD	$ 2,400

INSTALL RIP RAP	120	$	30	YD	$ 3,600
NEW PAVEMENT	60	$	180	TON	$ 10,800
GUARD RAIL & INSTALL	150	$	70	LF	$ 10,500
CONCRETE GUARD RAIL SUPPORT	20	$	200	YD	$ 4,000
RE-INSTALL UTILTY	1	$	15,000	LS	$ 15,000
INSTALL ROAD CLOSE SIGNAGE & TRAF.	1	$	2,000	LS	$ 2,000
CONTRACTRO BOND	1	$	5,000	LS	$ 5,000
MISCELLANEOUS AND CONTINGENCY	1	$	40,000	LS	$ 40,000
TOTAL ESTIMATED COST					$ 261,950

~NOTES~

1. GENERAL

1.1 ALL MATERIALS, WORKMANSHIP, AND DETAILS SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE, 2012 AASHTO LRFD DESIGN SPECIFICATIONS FOR RETAINING WALLS AND THE TOWN OF BRATTLEBORO ROAD CONSTRUCTION SPECIFICATIONS.

1.2 THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY VARIATIONS OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE DRAWINGS MAY ONLY BE MADE WITH THE PRIOR APPROVAL OF THE TOWN OF BRATTLEBORO PUBLIC WORKS DEPARTMENT.

1.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SHORING REQUIRED TO COMPLETE THE WORK OF THIS PROJECT.

1.4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL, TRAFFIC BARRIERS, AND DETOUR SIGNAGE.

1.5 THE CONTRACTOR SHALL KEEP THE PUBLIC WORKS DEPARTMENT AND THE ENGINEER INFORMED OF THE WORK SCHEDULE.

1.6 PRIOR TO CONSTRUCTING THE SEGMENTAL RETAINING WALL THE CONTRACTOR SHALL STAKE OUT THE WORK AND HAVE THE VERTICAL AND HORIZONTAL POSITION OF THE WALL APPROVED BY THE ENGINEER. THE WALL SHALL BE LOCATED IN ACCORDANCE WITH THE WORKING POINTS INDICATED ON THIS SHEET.

2.0 CONTROL OF WATER

2.1 THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF WATER IN THE EXCAVATION AND MAY INVOLVE THE USE OF CONDUITS TO CONTAIN THE STREAM, COFFERDAMS AND OR SHEET PILING. WATER SHALL BE CONTROLLED SO THAT PROPER INSTALLATION AND PREPARATION OF THE STONE BASE LAYER CAN BE ACHIEVED. IF PUMPING OF WATER OUT OF THE EXCAVATION IS REQUIRED THE PUMPED WATER SHALL BE FILTERED BEFORE DISCHARGING BACK TO THE STREAM. THE CONTRACTOR SHALL PROVIDE THE PUBLIC WORKS DEPARTMENT WITH A GENERAL DESCRIPTION OF HOW WATER IS TO BE CONTROLLED AND HOW PUMPED WATER WILL BE FILTERED.

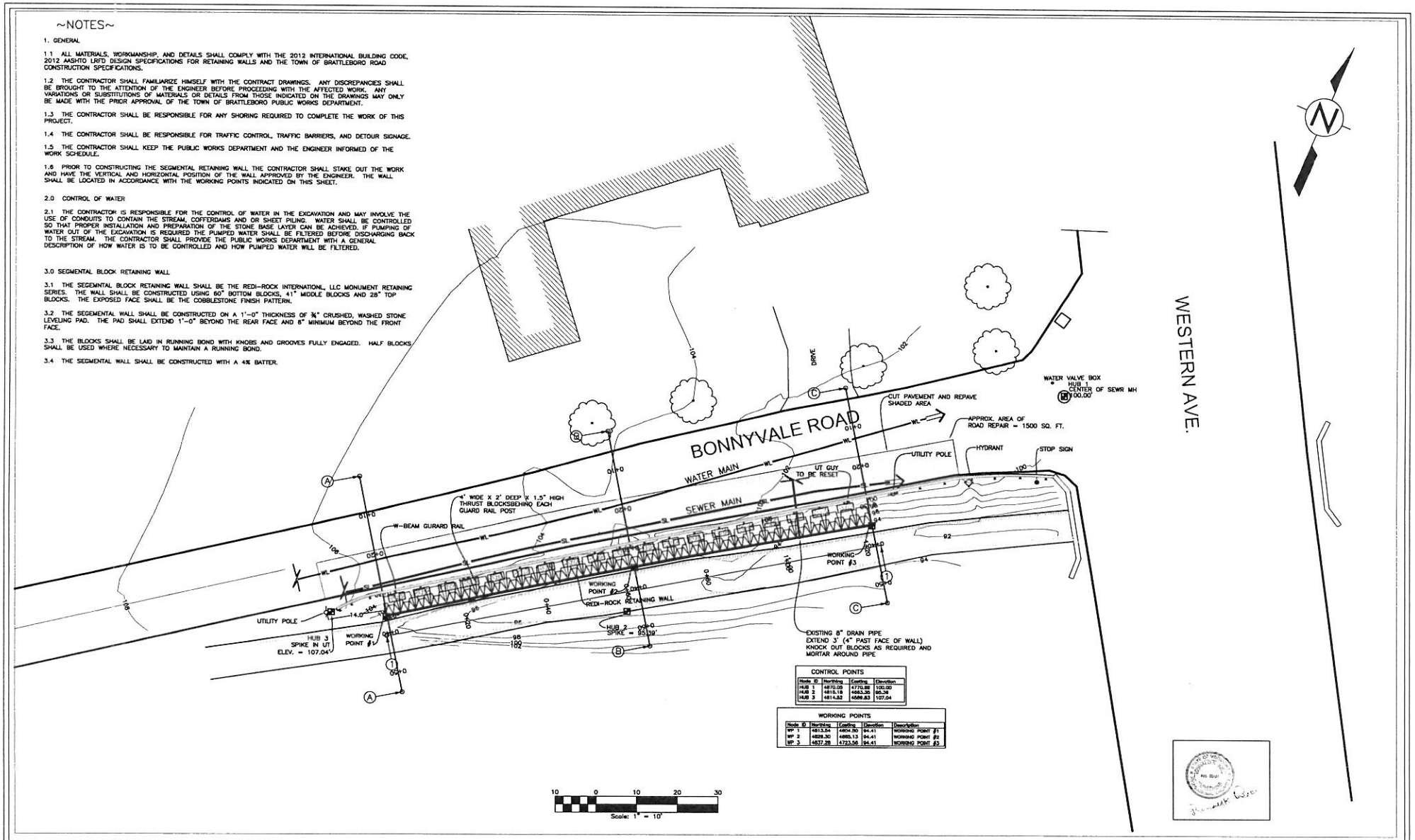
3.0 SEGMENTAL BLOCK RETAINING WALL

3.1 THE SEGEMNTAL BLOCK RETAINING WALL SHALL BE THE REDI-ROCK INTERNATIONL, LLC MONUMENT RETAINING SERIES. THE WALL SHALL BE CONSTRUCTED USING 60" BOTTOM BLOCKS, 41" MIDDLE BLOCKS AND 28" TOP BLOCKS. THE EXPOSED FACE SHALL BE THE COBBLESTONE FINISH PATTERN.

3.2 THE SEGEMENTAL WALL SHALL BE CONSTRUCTED ON A 1'-0" THICKNESS OF ¾" CRUSHED, WASHED STONE LEVELING PAD. THE PAD SHALL EXTEND 1'-0" BEYOND THE REAR FACE AND 8" MINIMUM BEYOND THE FRONT FACE.

3.3 THE BLOCKS SHALL BE LAID IN RUNNING BOND WITH KNOBS AND GROOVES FULLY ENGAGED. HALF BLOCKS SHALL BE USED WHERE NECESSARY TO MAINTAIN A RUNNING BOND.

3.4 THE SEGMENTAL WALL SHALL BE CONSTRUCTED WITH A 4% BATTER.



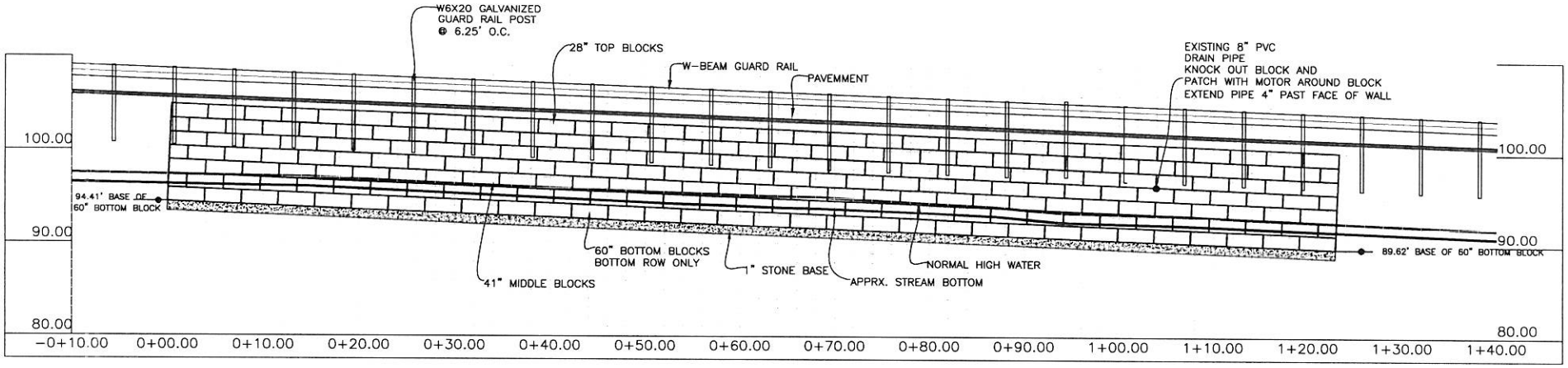
CONTROL POINTS

Node ID	Northing	Easting	Elevation
HUB 1	4870.08	4771.82	100.00
HUB 2	4815.19	4663.36	95.39
HUB 3	4814.82	4689.83	107.04

WORKING POINTS

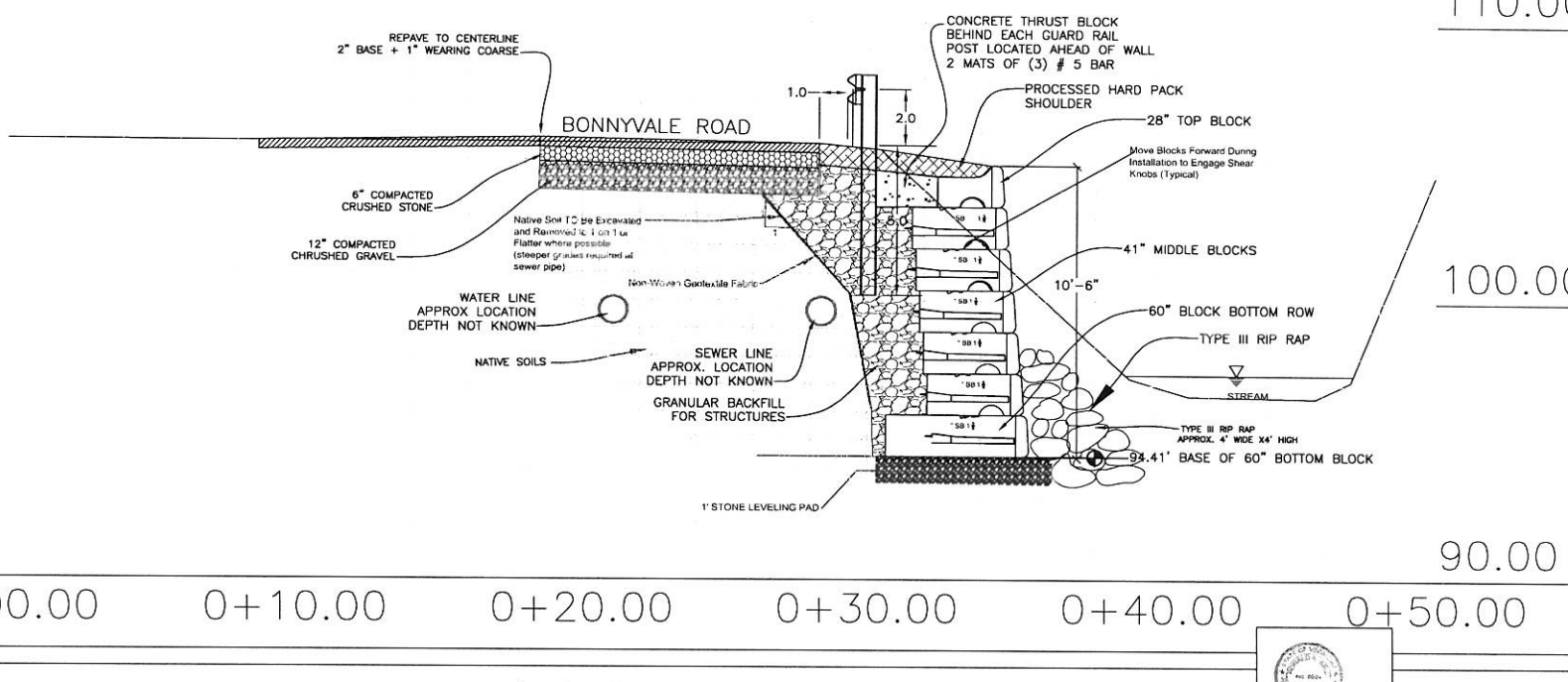
Node ID	Northing	Easting	Elevation	Description
WP 1	4813.54	4804.50	94.41	WORKING POINT #1
WP 2	4839.30	4685.13	94.41	WORKING POINT #2
WP 3	4837.28	4723.56	94.41	WORKING POINT #3

DATE: 1-28-2015		PLAN VIEW RETAINGING WALL	BONNYVALE ROAD RETAINING WALL	TOWN OF BRATTLEBORO PUBIC WORKS DEPARTMENT	BELL ENGINEERING CIVIL & ENVIRONMENTAL	SHEET 1 OF 5



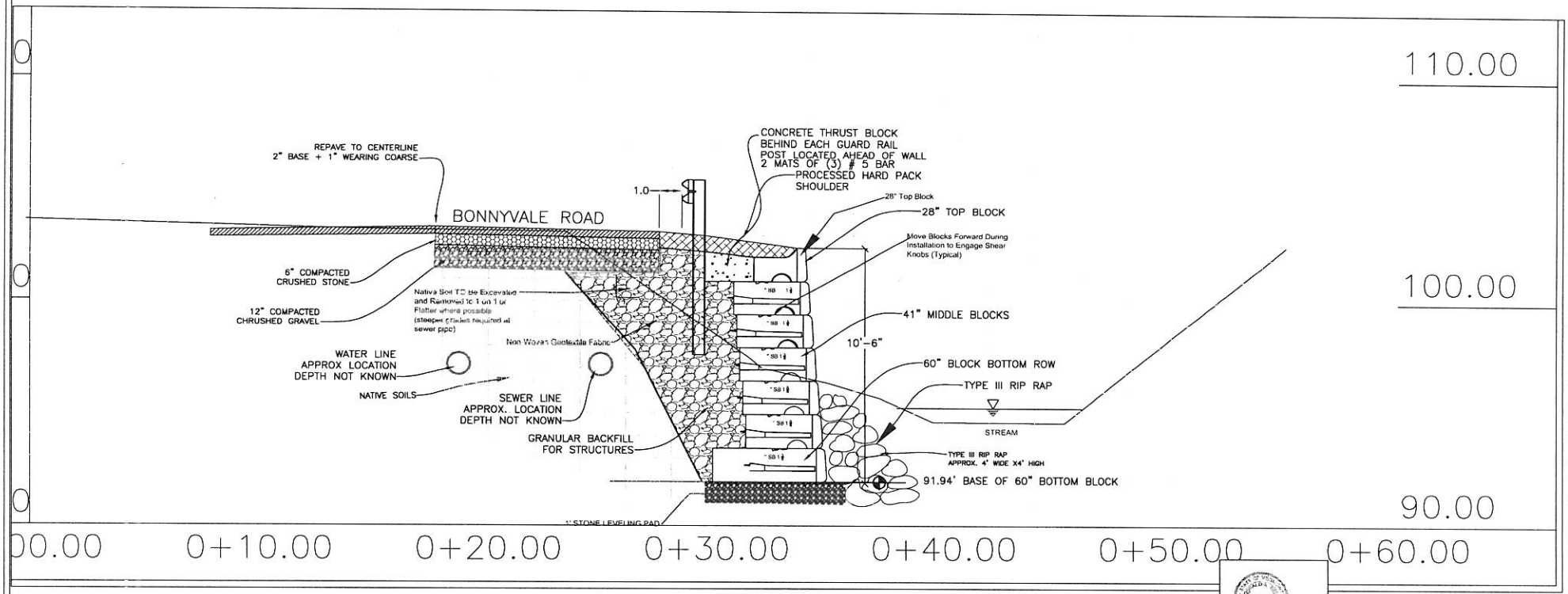
PROFILE 1-1
1" = 5'

DATE 1-28-2015		~DETAILS~ PROFILE VIEW	BONNYVALE ROAD RETAINING WALL	TOWN OF BRATTLEBORO PUBIC WORKS DEPARTMENT	BELL ENGINEERING CIVIL & ENVIRONMENTAL	SHEET 2 OF 5



SECTION A-A
1" = 2'

DATE: 1-28-2015		~DETAILS~ CROSS SECTION	BONNYVALE ROAD RETAINING WALL	TOWN OF BRATTLEBORO PUBIC WORKS DEPARTMENT	BELL ENGINEERING CIVIL & ENVIRONMENTAL	SHEET 3 OF 5



SECTION B-B
1" = 2'

DATE: 1-28-2015	~DETAILS~ CROSS SECTION	BONNYVALE ROAD RETAINING WALL	TOWN OF BRATTLEBORO PUBIC WORKS DEPARTMENT	BELL ENGINEERING CIVIL & ENVIRONMENTAL	SHEET 4 OF 5

Analysis of Redi Rock wall

Input data

Project

Task : BONNYVALE ROAD
Descript. : EMBANKMENT REPAIR
Author : RON BELL
Customer : TOWN OF BRATTLEBORO
Date : 1/26/2015

Settings

ASD - Skewed Back - NCMA 3rd Edition Table 5-2 Factors

Wall analysis

Active earth pressure calculation :	Coulomb
Passive earth pressure calculation :	Caqout-Kerisel
Earthquake analysis :	Mononobe-Okabe
Shape of earth wedge :	Calculate as skew
Reduction coeff. of contact first block - base :	0.70
Verification methodology :	Safety factors (ASD)
Reduce parameters of contact base - soil	

Safety factors		
Permanent design situation		
Safety factor for overturning :	SF_o =	1.50 [–]
Safety factor for sliding resistance :	SF_s =	1.50 [–]
Safety factor for bearing capacity :	SF_b =	2.00 [–]

Reduction coefficients		
Permanent design situation		
Reduction coeff. of contact base - soil :	μ =	1.00 [–]

Blocks

No.	Description	Height h [in]	Width w [in]	Unit weight γ [pcf]
1	Block 28	18.00	27.75	130.00
2	Block 41	18.00	40.50	130.00
3	Block 60	18.00	60.00	130.00
4	Top block 24	18.00	24.00	130.00
5	Planter 41	18.00	40.50	112.00

No.	Description	Shear cap. F [lbf/ft]	Max. shear cap. F_{max} [lbf/ft]	Friction f [°]	Cohesion c [psf]
1	Block 28	1700.00	9000.00	75.00	0.0
2	Block 41	1700.00	9000.00	75.00	0.0
3	Block 60	1700.00	9000.00	75.00	0.0
4	Top block 24	1700.00	9000.00	75.00	0.0
5	Planter 41	1700.00	9000.00	75.00	0.0

Setbacks

No.	Setback s [in]
1	0.375

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No.	Setback s [in]
2	1.625
3	9.375
4	16.625

Geometry

No. group	Description	Count	Setback s [in]
1	Block 60	1	1.62
2	Block 41	5	1.62
3	Block 28	1	1.62

Base

Geometry

Upper setback a_1 = 0.00 ft
Lower setback a_2 = 1.00 ft
Height h = 1.00 ft
Width b = 6.50 ft

Material

Soil creating foundation - Well graded gravel (GW), dense
Soil bearing capacity R_d = 8000.0 psf

Basic soil parameters

Number	Name	Pattern	φ_{ef} [°]	c_{ef} [psf]	γ [pcf]	γ_{su} [pcf]	δ [°]
1	Well graded gravel (GW), dense		41.50	0.0	133.00	70.50	32.00

All soils are considered as cohesionless for at rest pressure analysis.

Soil parameters

Well graded gravel (GW), dense

Unit weight : γ = 133.0 pcf
Stress-state : effective
Angle of internal friction : φ_{ef} = 41.50 °
Cohesion of soil : c_{ef} = 0.0 psf
Angle of friction struc.-soil : δ = 32.00 °
Saturated unit weight : γ_{sat} = 133.0 pcf

Geological profile and assigned soils

Number	Layer [ft]	Assigned soil	Pattern
1	10.50	Well graded gravel (GW), dense	
2	-	Well graded gravel (GW), dense	

Terrain profile

Terrain behind the structure is flat.

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Water influence

GWT behind the structure lies at a depth of 5.00 ft
Uplift in foot. bottom due to different pressures is not considered.

Input surface surcharges

Number	Surcharge new	Surcharge change	Action	Mag.1 [lbf/ft²]	Mag.2 [lbf/ft²]	Ord.x x [ft]	Length l [ft]	Depth z [ft]
1	YES		permanent	500.0				on terrain

Number	Name
1	VEHICLE

Resistance on front face of the structure

Resistance on front face of the structure is not considered.

Settings of the stage of construction

Design situation : permanent

Verification No. 1

Forces acting on construction

Name	F_{hor} [lbf/ft]	App.Pt. Z [ft]	F_{vert} [lbf/ft]	App.Pt. X [ft]	Design coefficient
Weight - wall	0.0	-4.83	5482.4	3.18	1.000
Weight - earth wedge	0.0	-1.37	19.6	6.17	1.000
Weight - earth wedge	0.0	-3.45	149.6	5.08	1.000
Weight - earth wedge	0.0	-10.93	222.6	3.85	1.000
Active pressure	1318.1	-3.95	1984.9	5.61	1.000
Water pressure	1319.0	-2.17	-36.0	5.42	1.000
Uplift pressure	0.0	-11.50	0.0	2.23	1.000
VEHICLE	1000.3	-5.62	1476.4	5.35	1.000

Verification of complete wall

Check for overturning stability
Resisting moment M_{res} = 38033.8 lbfft/ft
Overturning moment M_{ovr} = 13688.5 lbfft/ft

Safety factor = 2.78 > 1.50
Wall for overturning is SATISFACTORY

Check for slip
Resisting horizontal force H_{res} = 8227.53 lbf/ft
Active horizontal force H_{act} = 3637.43 lbf/ft

Safety factor = 2.26 > 1.50
Wall for slip is SATISFACTORY

Forces acting at the centre of footing bottom
Overall moment M = 5878.2 lbfft/ft
Normal force N = 9299.53 lbf/ft

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Shear force Q = 3637.43 lbf/ft

Overall check - WALL is SATISFACTORY

Bearing capacity of foundation soil

Forces acting at the centre of the footing bottom

Number	Moment [lbfft/ft]	Norm. force [lbf/ft]	Shear Force [lbf/ft]	Eccentricity [ft]	Stress [psf]
1	5878.2	9299.53	3637.43	0.63	1776.1

Bearing capacity of foundation soil check

Eccentricity verification

Max. eccentricity of normal force e = 7.59 in

Maximum allowable eccentricity e_{alw} = 25.74 in

Eccentricity of the normal force is SATISFACTORY

Footing bottom bearing capacity verification

Max. stress at footing bottom σ = 1776.1 psf

Bearing capacity of foundation soil R_d = 5000.0 psf

Safety factor = 2.82 > 2.00

Bearing capacity of foundation soil is SATISFACTORY

Overall verification - bearing capacity of found. soil is SATISFACTORY

Dimensioning No. 1

Forces acting on construction

Name	F_{hor} [lbf/ft]	App.Pt. Z [ft]	F_{vert} [lbf/ft]	App.Pt. X [ft]	Design coefficient
Weight - wall	0.0	-4.64	4617.9	2.17	1.000
Weight - earth wedge	0.0	-2.45	149.6	4.08	1.000
Weight - earth wedge	0.0	-9.93	222.6	2.85	1.000
Active pressure	1095.8	-3.61	1481.8	4.36	1.000
Water pressure	944.0	-1.83	-36.0	4.42	1.000
Uplift pressure	0.0	-10.50	0.0	1.23	1.000
VEHICLE	896.5	-5.19	1232.0	4.15	1.000

Verification of block No.1

Check for overturning stability

Resisting moment M_{res} = 22679.8 lbfft/ft

Overturning moment M_{ovr} = 10334.1 lbfft/ft

Safety factor = 2.19 > 1.50

Joint for overturning stability is SATISFACTORY

Check for slip

Resisting horizontal force H_{res} = 4748.84 lbf/ft

Active horizontal force H_{act} = 2936.38 lbf/ft

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Safety factor = 1.62 > 1.50
Joint for verification is SATISFACTORY

Verification of bearing capacity of soil:
Maximum stress σ = 2381.3 psf
Bearing capacity of footing material R_d = 8000.0 psf

Safety factor = 3.36 > 2.00
Footing bearing capacity is SATISFACTORY

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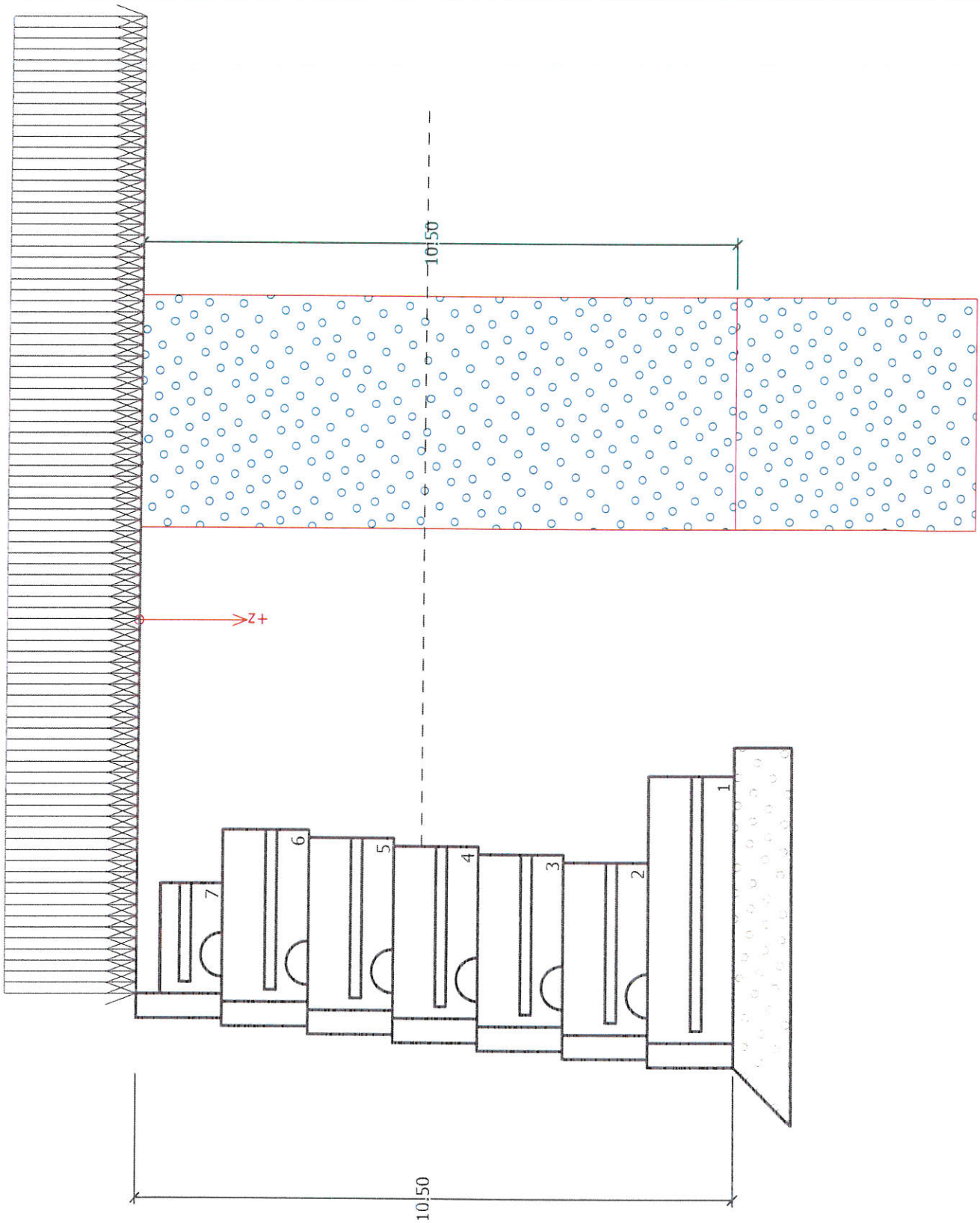
RON BELL

BONNYVALE ROAD

Name :	Profile and assignment	Stage : 1



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VERMONT LEAGUE OF CITIES & TOWNS

Issue Date: 01/01/2016

Policy Number: P0702016

CERTIFICATE OF COVERAGE

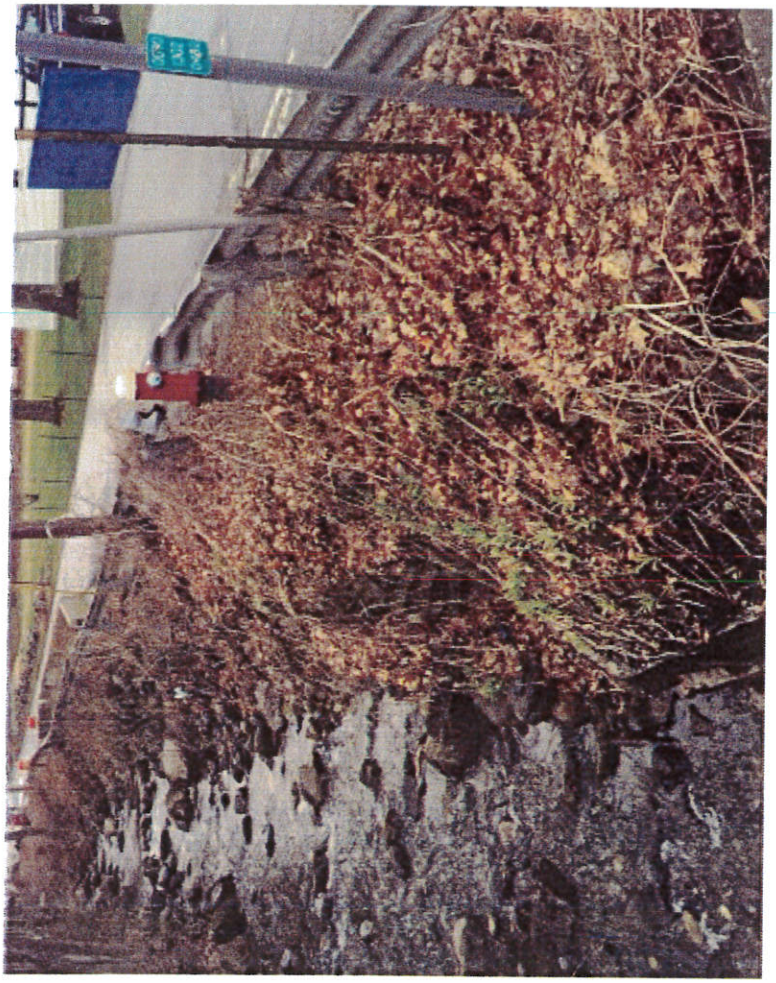
Named Member
Town of Brattleboro
Attn: Peter Elwell
230 Main Street, Ste. 208
Brattleboro, VT 05301

Company Affording Coverage
VLCT Property & Casualty Intermunicipal Fund, Inc.
89 Main Street Suite 4
Montpelier, VT 05602

Type of Coverage	Term	Limits of Liability
Commercial General Liability	01/01/2016 - 01/01/2017	$10,000,000 Per Occurrence
Coverage Includes:		
Premises/Operations		
Products/Completed Operations		
Personal Injury		
Contractual		
Independent Contractors		
Broad Form Property Damage		
Automobile Liability	01/01/2016 - 01/01/2017	$10,000,000 Per Occurrence
Any Auto		
Hired Autos		
Non-Owned Autos		
Comprehensive/Collision		ACV
Workers Compensation	01/01/2016 - 01/01/2017	Statutory
And		
Employers Liability		$5,000,000 Per Occurrence and in the Aggregate
Property	01/01/2016 - 01/01/2017	$50,000,000 Per Occurrence

Other: The State of Vermont and its officers and employees are included as an additional covered party (additional insured), but only in respect to operations by or on behalf of the Named Member, as respects the grant.

Certificate Holder:
Vermont Agency of Transportation
National Life Building
Drawer 33
Montpelier, VT 05633-5001

This Certificate is issued as a matter of information only and confers no rights upon the Certificate Holder. This Certificate does not amend, extend or alter the coverage afforded by the policies above.
Should any of the above described policies be cancelled before the expiration date thereof, the issuing insurer will endeavor to mail 30 days written notice to the Certificate Holder named to the left, but failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents, or representatives.

Authorized Representative: _____