

**BERRYVILLE TOWN COUNCIL STREETS AND UTILITIES COMMITTEE
MEETING AGENDA
Berryville-Clarke County Government Center
101 Chalmers Court, Second Floor
A/B Meeting Room
Regular Meeting
April 24, 2018
Noon**

Item

Attachment

- | | |
|--|---|
| 1. Call To Order | |
| 2. Approval of Agenda | |
| 3. Discussion – Smart Scale Projects | 1 |
| 4. Discussion – Traffic Issues / Speed Limit Signage | 2 |
| 5. Discussion – Water service extensions outside of the Town’s corporate limits | 3 |
| 6. Discussion – Water Projects | 4 |
| 7. Closed Session - No Closed Session Scheduled | |
| 8. Other | |
| 9. Adjourn | |

↑ **Denotes** an item on where a motion for action is included in the packet

Attachment 1

Christy Dunkle

From: Ennis, John-Allen <johnallen.ennis@vdot.virginia.gov>
Sent: Monday, April 16, 2018 1:48 PM
To: Christy Dunkle
Cc: Keith Dalton; Terry Short; Campbell, Adam
Subject: Re: update
Attachments: Berryville_EastMain_Section2_SS_Sketch.pdf; Berryville_EastMain_Section1_SS_Sketch.pdf

Christy,

Attached are sketches for the first 2 sections of the proposed Route 7 East Main Street improvements. Also, following are the estimates for these 2 sections:

Section 1 - 1st Street to Jack Enders Blvd.:

- Preliminary Engineering: \$200,000
- Right of Way & Utilities: \$555,000
- Construction: \$830,000
- Total: \$1,585,000

Section 2 - Jack Enders Blvd. to Battletown Dr.:

- Preliminary Engineering: \$230,000
- Right of Way & Utilities: \$750,000
- Construction: \$955,000
- Total: \$1,935,000

Please review and let me know if you have any questions.

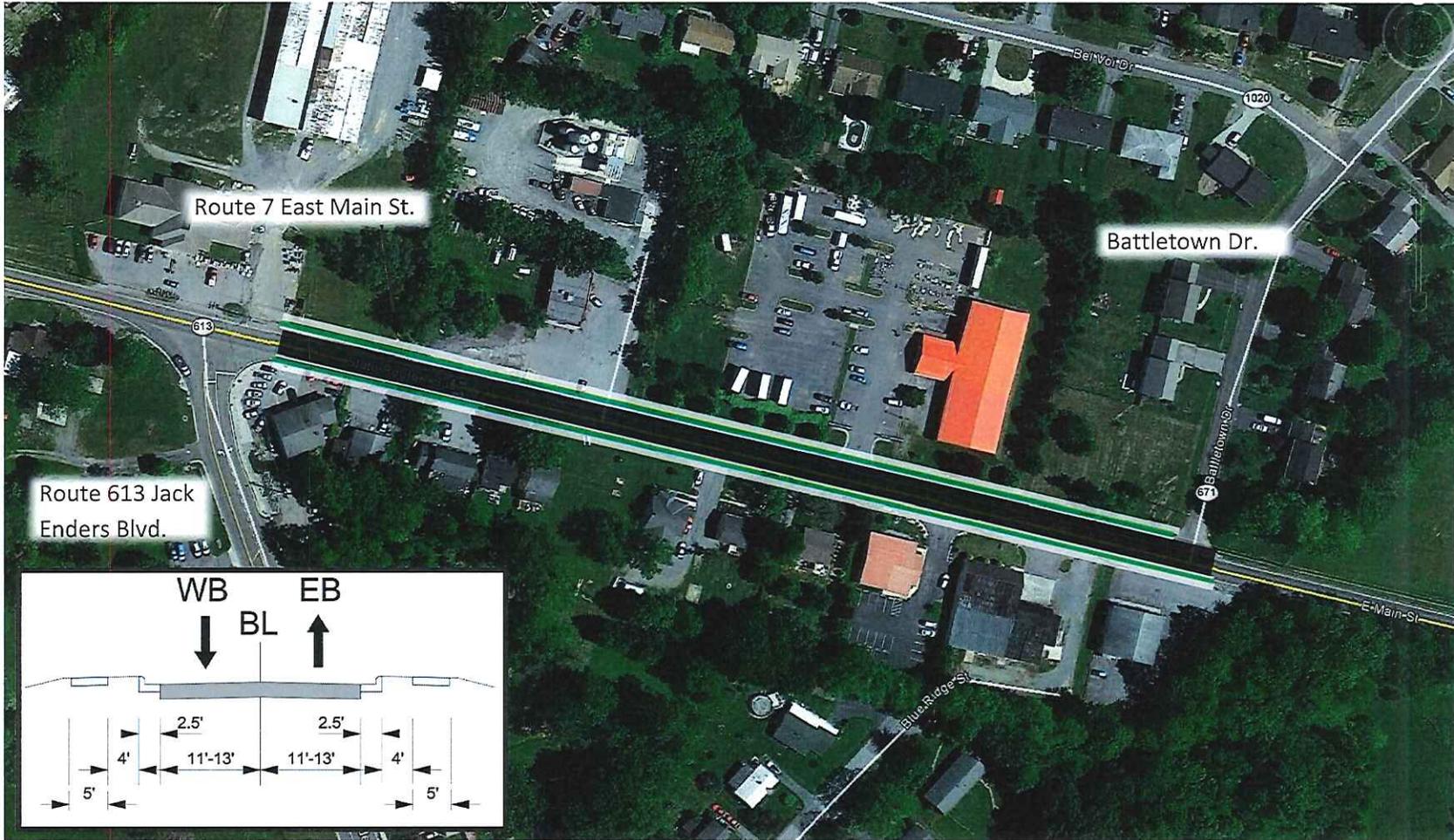
Thanks,
John-Allen

On Mon, Apr 9, 2018 at 12:31 PM, Christy Dunkle <planner@berryvilleva.gov> wrote:

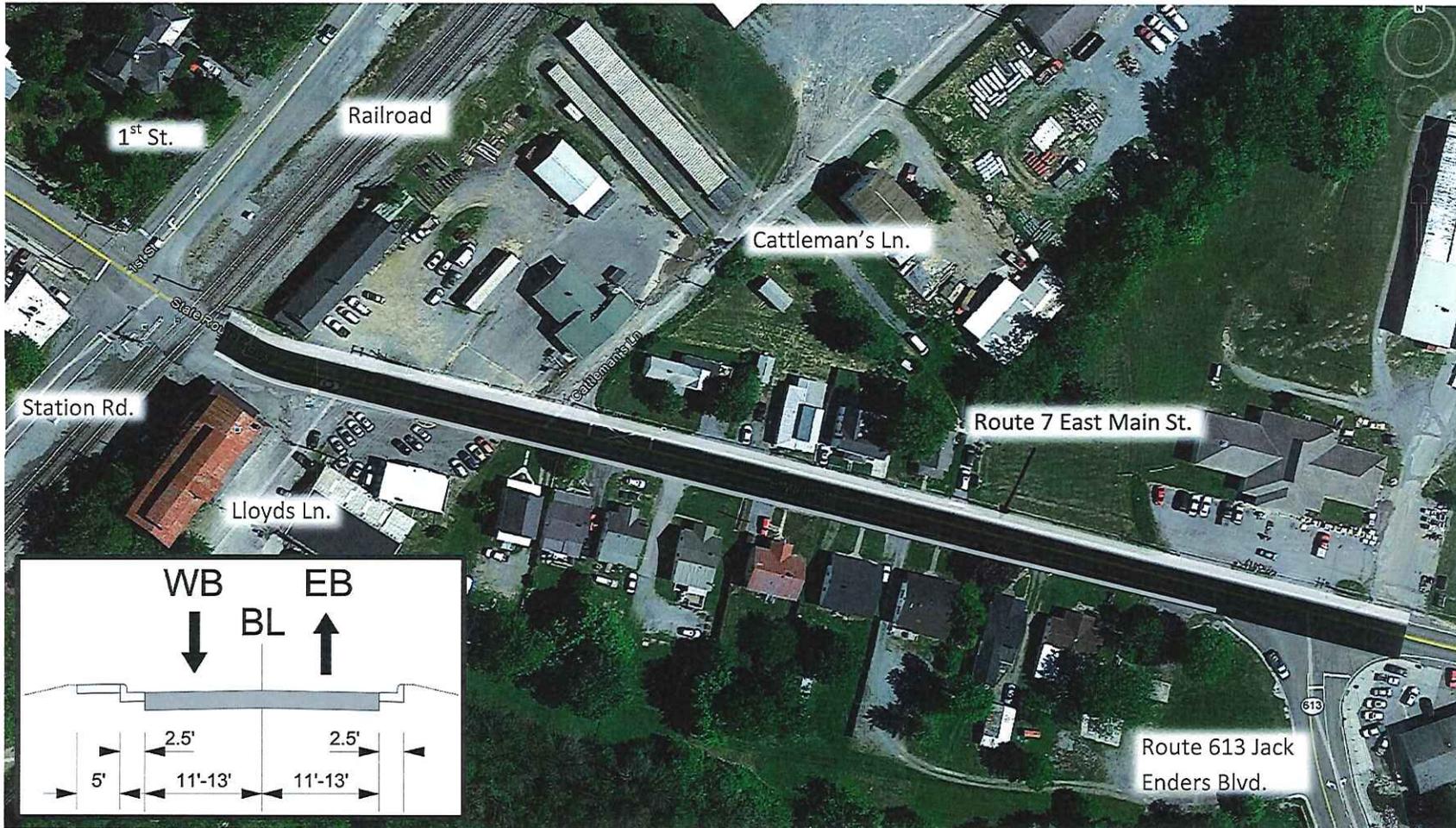
Hi John-Allen-

Do you have an update on the Smart Scale projects in Berryville?

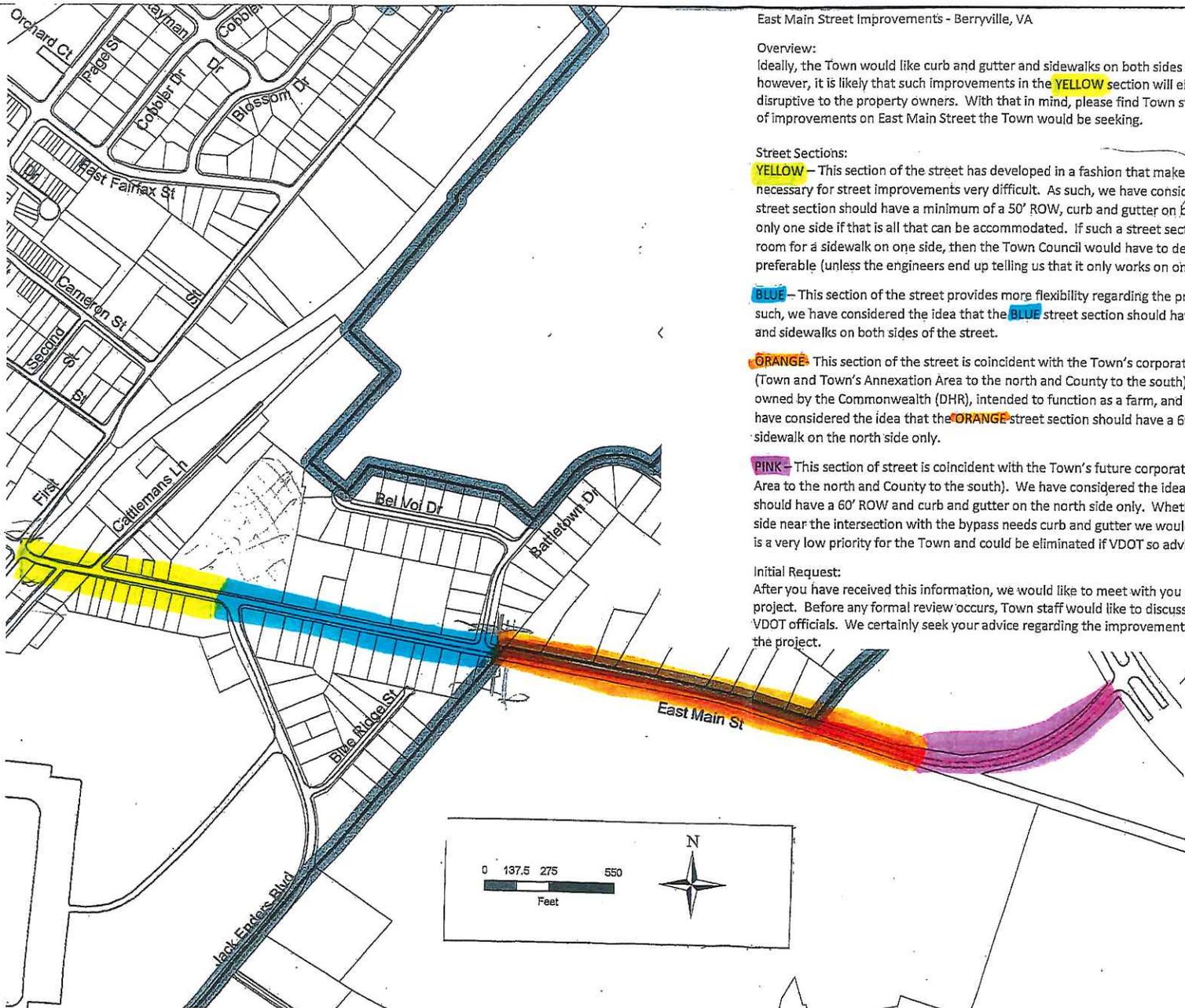
Thanks-Christy



Project Description		UPC:	N/A
Construct Curb & Gutter, storm sewer and minor lane widening along both sides of East Main St. Construct a 5' sidewalk with buffer strip along both sides of the road. Mill and overlay existing pavement. Right of Way will be approximately 60'.		Route No:	7
		From:	Int. Jack Enders Blvd.
		To:	Int. Battletown Dr.
		Length:	0.2 Miles



Project Description		UPC:	N/A
Construct Curb & Gutter, storm sewer and minor lane widening along both sides of East Main St. Construct a 5' sidewalk along the north side of East Main St. Mill and overlay existing pavement. Right of Way will be limited to 45' to 50' due to multiple residences close to the existing road. Attempt to improve access control by combining entrances where possible.		Route No:	7
		From:	Int. 1 st Street
		To:	Int. Jack Enders Blvd.
		Length:	0.2 Miles



East Main Street Improvements - Berryville, VA

Overview:

Ideally, the Town would like curb and gutter and sidewalks on both sides of the improved street section; however, it is likely that such improvements in the **YELLOW** section will either be impossible or very disruptive to the property owners. With that in mind, please find Town staff's thoughts about what sort of improvements on East Main Street the Town would be seeking.

Street Sections:

YELLOW - This section of the street has developed in a fashion that makes the widening of the ROW necessary for street improvements very difficult. As such, we have considered the idea that the **YELLOW** street section should have a minimum of a 50' ROW, curb and gutter on both sides, and a sidewalk on only one side if that is all that can be accommodated. If such a street section and ROW only provides room for a sidewalk on one side, then the Town Council would have to determine which side was preferable (unless the engineers end up telling us that it only works on one side).

BLUE - This section of the street provides more flexibility regarding the practicality of a wider ROW. As such, we have considered the idea that the **BLUE** street section should have a 60' ROW, curb and gutter, and sidewalks on both sides of the street.

ORANGE - This section of the street is coincident with the Town's corporate limits/future corporate limits (Town and Town's Annexation Area to the north and County to the south). The property to the south is owned by the Commonwealth (DHR), intended to function as a farm, and will not develop. As such, we have considered the idea that the **ORANGE** street section should have a 60' ROW, curb and gutter and sidewalk on the north side only.

PINK - This section of street is coincident with the Town's future corporate limits (Town's Annexation Area to the north and County to the south). We have considered the idea that the **PINK** street section should have a 60' ROW and curb and gutter on the north side only. Whether some portion of the south side near the intersection with the bypass needs curb and gutter we would leave to VDOT. This section is a very low priority for the Town and could be eliminated if VDOT so advised.

Initial Request:

After you have received this information, we would like to meet with you and walk the proposed project. Before any formal review occurs, Town staff would like to discuss the matter in detail with VDOT officials. We certainly seek your advice regarding the improvements that should be included in the project.

Attachment 2

Town of Berryville
Berryville-Clarke County
Government Center
101 Chalmers Court Suite A
Berryville, VA 22611



[T] 540/955-1099
[F] 540/955-4524
[E] info@berryvilleva.gov

www.berryvilleva.gov

20 March, 2018

Elizabeth & Dennis Couture (via email)
101 Taylor Street
Berryville, VA 22611

Dear Mrs. & Mr. Couture:

We are in receipt of your letter to Keith Dalton dated 13 March 2018. Your letter includes a request for town approval for the installation of radar speed sign on the South Buckmarsh (US 340) right-of-way.

The Berryville Zoning Ordinance does not address the regulation of signs on VDOT rights-of-way. As such, the sign request in question would be reviewed by the Virginia Department of Transportation. I recommend that you speak with Cliff Balderson, Edinburg Residency Engineer (540 984-5600), and he will be able guide you through their process.

Thank you for contacting us and please let me know if you need anything else in this regard.

Sincerely,

Christy N. Dunkle
Assistant Town Manager

Cc: Town Council, via email
Cliff Balderson, via email
Ed Carter, via email
Keith Dalton, via email
Neal White, via email

Patricia Dickinson
Mayor

Harry Lee Arnold, Jr.
Recorder

Council Members

Donna Marie McDonald
Ward 1

Allen Kitselman, III
Ward 2

Erecka L. Gibson
Ward 3

David L. Tollett
Ward 4

Keith R. Dalton
Town Manager

March 13, 2018

To: Mr. Keith Dalton, Manager

Town of Berryville
101 Chalmers
Berryville, Va 22611

RECEIVED

MAR 13 2018
Town of Berryville, VA

Attached is our application for a sign to be located on the existing sign at our driveway entrance, 101 Taylor St. The sign is 'speed' notice to let drivers know how fast or slow they are traveling. This sign will replace the VDOT temporary sign which has been present for almost four months.

The sign has shown that 85% of vehicles traveling south on Buckmarsh now travel at 30 mph which is 15% less than last August, 2017, when a similar travel study done by the Police Department found 85% traveled at 34 mph and faster.

Other attachments locate the sign and provide specifications for the sign. The vender selling the sign is Traffic Logix which came to us by recommendation from the Staunton District, VDOT. They have offered to sell this sign at a very reasonable cost. We remain extremely appreciative of all the professional and kind assistance provided by the Berryville Police Department, Mrs Patricia Dickinson, Mayor, and Mr. Cliff Balderson with Mr. Eric DeHaven, both with VDOT. We look forward to hearing from you and will gladly meet should you want to discuss this application. Thank you for your time and consideration of this permit application.

Sincerely,



Elizabeth and Dennis Couture

101 Taylor St.

Berryville, Va 22611

540-277-2987

TOWN OF BERRYVILLE
101 Chalmers Court, Suite A * Berryville, Virginia 22611
PHONE: (540) 955-4081 * FAX: (540) 955-4524 * E-MAIL: PLANNER@BERRYVILLEVA.GOV

HISTORIC DISTRICT SIGN PERMIT APPLICATION

Please Note: This is an application only. The permit will be issued only if approved by the Zoning Administrator and after review and recommendation by the Architectural Review Board.

To be completed by the Applicant: Date: March 9, 2018, 2018

Applicant's Name: Elizabeth + Dennis Couture

Applicant's Phone Number: 540-277-2987 E-mail: COZUR@gmail.com

Name of Business (for which signage is being requested): N/A

Business physical address: N/A

Business mailing address: N/A

Property Owner's Name: Elizabeth + Dennis Couture

Property Owner's Address: 101 Taylor St
Berryville VA 22611

Application is hereby made for a permit to erect or remodel a sign as described below: (see attachments)

Total number of signs requested: 1 Fee: \$

Please include nine (9) copies of the following information for each sign requested: (see sign specifications and site photos)

_____ Scale color illustration of the sign, indicating the materials, dimensions (including square footage), the location of the sign (including minimum 8' 6" above all sidewalks or right-of-way for projecting signs), type of sign (freestanding, hanging, wall, etc.), and method of mounting.

_____ Color chips if applicable.

_____ Illustration and details of the proposed illumination, if any.

Sign Company: Traffic Logic Phone Number: Company 800 915 6449
Contact = John Painter
814 404 5976

Signature of Applicant: Elizabeth Couture

TO BE COMPLETED BY ZONING ADMINISTRATOR

Street Address: _____

Tax Map Number: _____ Zoning Designation: _____

Applicable Regulations: _____

Other Conditions: _____

The Sign Permit is approved denied for the sign described on the property indicated above.

Reason, if denied: _____

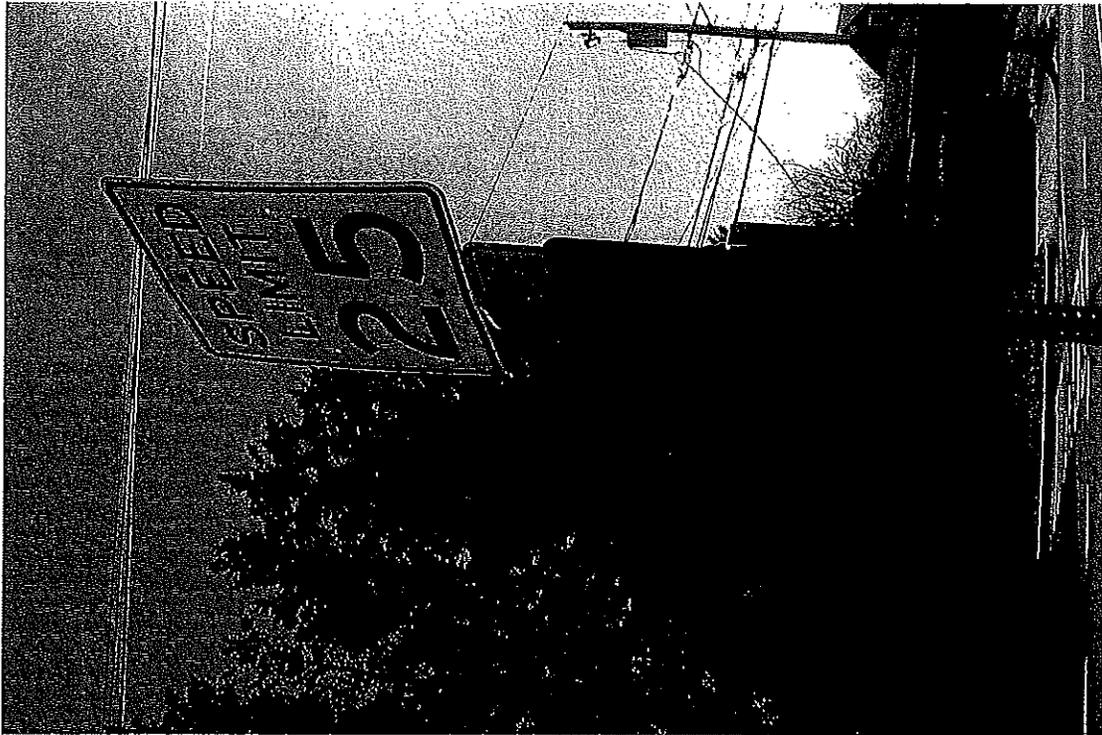
Signature of Zoning Administrator: _____ Date: _____

To: Town of Berryville

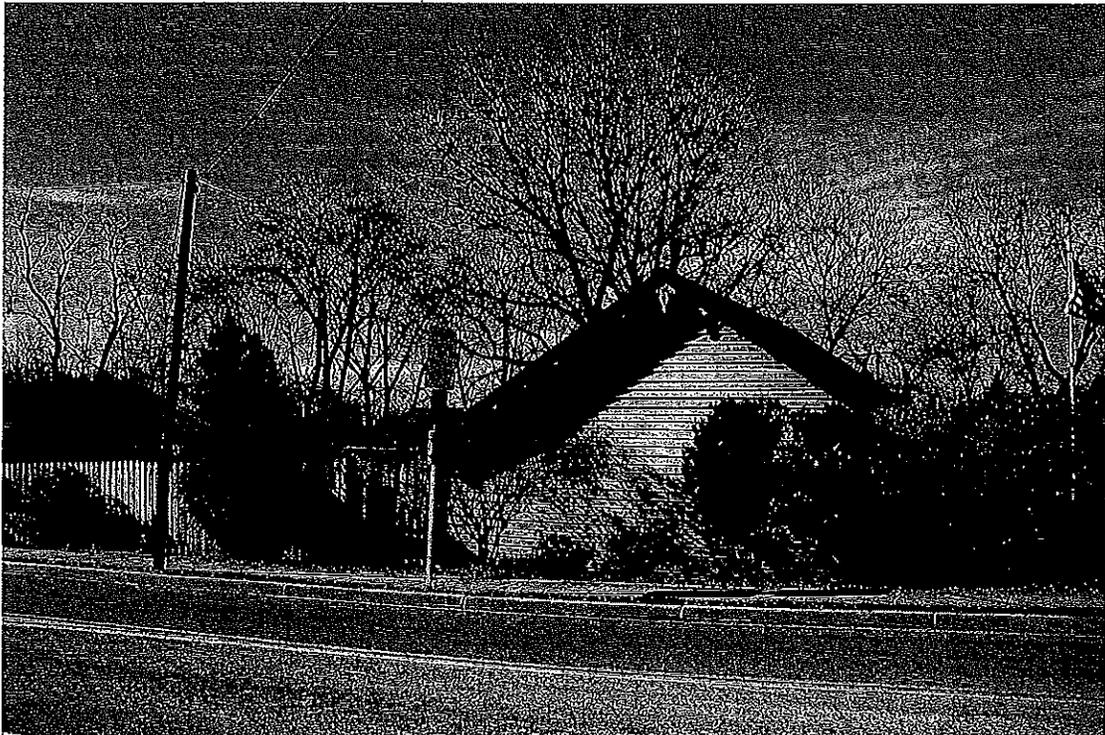
Attachments for Historic District Sign Permit application

Application submitted by: Elizabeth and Dennis Couture, 101 Taylor St., Berryville, VA 22611

- 1) Safe Pace 100 sign specifications provided by Traffic Logix, Inc.
- 2) Virginia Department of Transportation (VDOT) recommendation to purchase sign from Traffic Logix, Inc.
- 3) VDOT grants Couture property permission to purchase sign and install within road right-of-way.
- 4) Photographs of VDOT speed sign which matches Safe Pace 100 sign. Note: VDOT sign posted and working for over 6 weeks at site: 101 Taylor St. driveway entrance on So. Buckmarsh St.
- 5) Proposed location on property survey of new Safe Pace 100 sign.
- 6) Area residents in support of traffic calming measures which includes Safe Pace 100 sign



Size and Scale of Existing VDOT sign

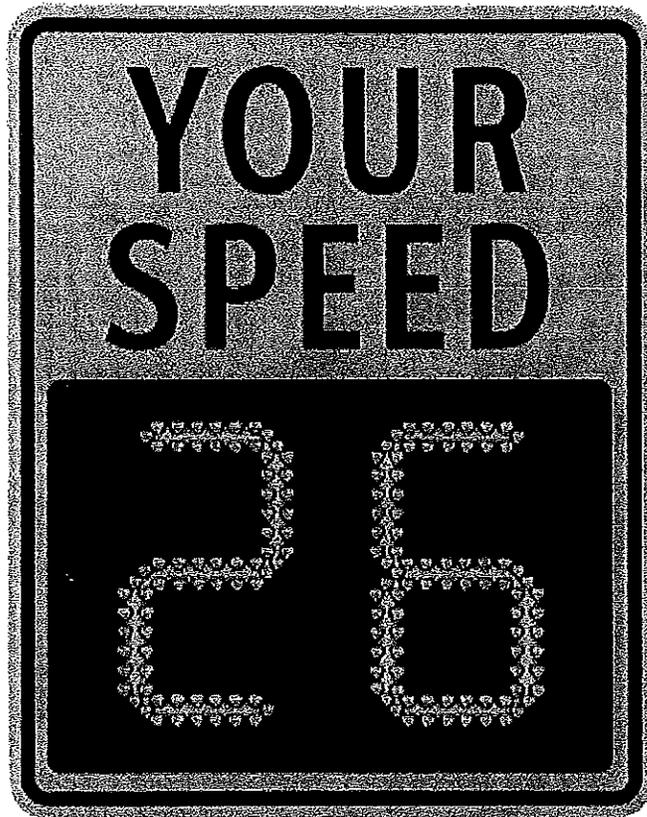


Existing and Proposed location of sign at BuckMarch St / 101 Taylor St
January 2018 Note sign installed Dec, 2017 - Site still present March 2018

Traffic Logix®

SafePace® 100 Radar Speed Sign

Product Specifications Version 2.9



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Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
T (866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
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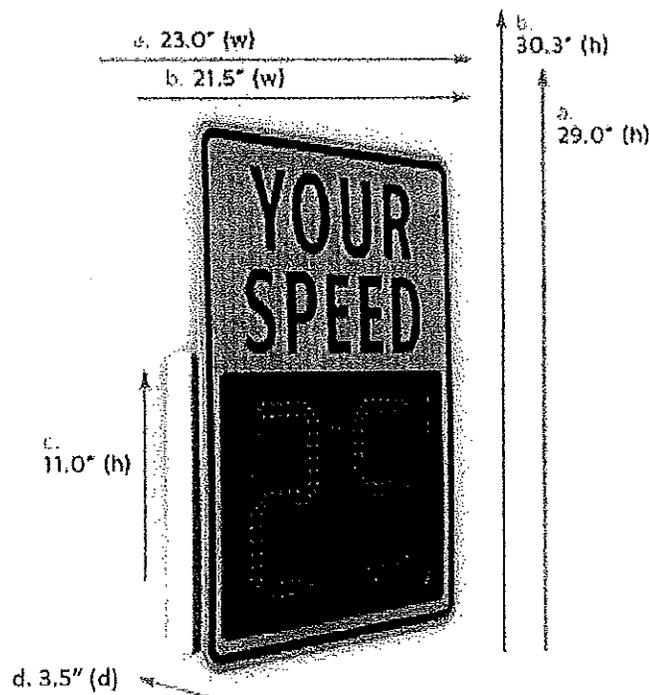
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Dimensions

- Digit: 11"(h) x 5.6"(w), 98 LEDs per digit
- Unit alone: 15.8"(h) x 21.4"(w) x 3.5"(d)
- Unit with "YOUR SPEED" sign mounted:
 - Full size sign: 29.0"(h) x 23.0"(w) x 3.5"(d)
- Sign Weight (includes "YOUR SPEED" sign (2 lbs) mounted)
 - AC Powered Model: 21 lbs
 - 3 Cell Battery Powered Model: 23 lbs
 - 4 Cell Battery Powered Model: 25 lbs
 - Solar Powered Model: 23 lbs (does not include solar panel or bracket)
- Accessories
 - 3 Cell Lithium Ion Battery: 2 lbs
 - 4 Cell Lithium Ion Battery: 4 lbs
 - Universal Mounting Bracket System
 - Sign Bracket: 2 lbs
 - Pole Bracket: 5 lbs



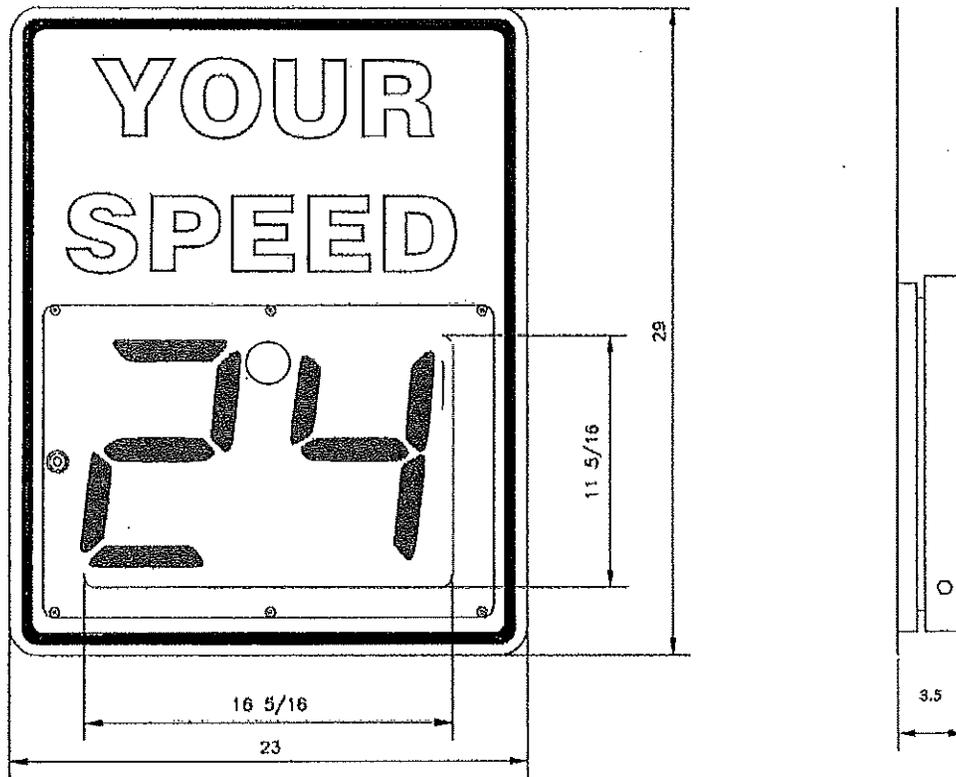
SafePace® 100 Full-size sign dimensions

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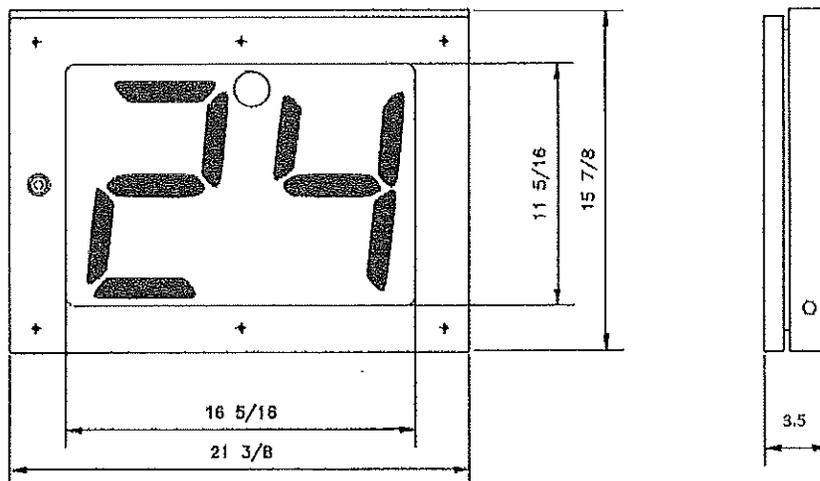


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Dimensions of SafePace® 100 Radar Sign with Full "YOUR SPEED" Sign Face



Dimensions of SafePace® 100 Radar Sign unit alone



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Technical Specifications

- Miles Per Hour (mph) or Kilometers Per Hour (km/h)
- Aluminum protective cover: 0.25" (d)
- High-Intensity prismatic reflective sheeting on "YOUR SPEED" signs with black colored text
- MUTCD approved colors and format
- Operating Temperatures F (C): -40° (-40°) to 185° (85°)
- Conformal coating on all circuit boards
- Power
 - Power input:
 - AC 90~264 VAC
 - 12 VDC
 - Vcc: 5.5 VDC to 16 VDC (18V max)
 - Icc@12 VDC (radar always on): Display blank- 9.5 mA
 - Display at night: 21 mA
 - Display max bright: 415 mA
 - Radar RF out: 5 mW maximum
 - Power Efficiency:
 - Best in class power efficiency
 - Low power SS300 radar drives display eliminate extra CPU
 - Built in ambient light sensing and automatic brightness control
 - Ambient temperature compensation of LED drive voltage
 - High efficiency boost regulator for LED drive voltage
 - With no traffic present, radar automatically powers down display, reducing power consumption to 0.1W
 - Power Options
 - AC power input: 90~264 VAC
 - DC power input: 12 VDC
 - Battery power option offers extended life:
 - 3 Cell, 9.6V, 10Ah Lithium-Ion Phosphate battery with up to 2 weeks operation between charges (under normal operating conditions)
 - 4 Cell, 12.8V, 15Ah Lithium-Ion Phosphate battery with up to 4 weeks operation between charges (under normal operating conditions)
 - Solar power
 - Compact, 20W solar panel (15.4" x 9.8" x 0.71")
- Radar
 - Internal Radar: SS300 Doppler (FCC approved)
 - Radar RF out: 5 mW maximum

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- Radar f-center: 24.125 GHz or 24.200 GHz
- Pickup distance: Up to 300 feet
- Beam angle: 38 x 45
- Beam polarization: Linear
- CE Mark (Radar): Yes
- Display
 - LEDs 208:
 - Digits: 196 Amber, 15°, 5 mm, luminous Intensity (4180 - 8200)
 - Speed Violator Strobe: 12 White, 15°, 5 mm , luminous intensity (4180 - 8200)
 - Optical lenses: 208 lenses
 - Display Brightness:
 - 11,000 nits (cdm) maximum
 - 550 nits (cdm) at night
 - Ambient light sensor and automatic brightness adjustment
- Enclosure
 - 12 gauge aluminum, flat black powder coated front for reduced glare and maximum contrast; light gray powder coated body to minimize heat absorption
 - Weatherproof, NEMA 4X-12, IP65 level compliant
 - Non-sealed and ventilated

Communication

- **Bluetooth 4.0** → standard recommended configuration (“BlueFin” Bluetooth card installed on “BackFin” sign controller card by default)
- **Wi-Fi** → optional configuration upon request (“Wi-Fin” Wi-Fi card optionally installed on “BackFin” sign controller card – connect to radar sign configured as network access point)
- **GPRS** → optional configuration upon request (“SimFin” card optionally installed on “BackFin” sign controller card to insert SIM (Subscriber Identity Module) card)

Programming

- SafeSpace® Pro Management Software application
- Display Settings:
 - Display On/Stealth Modes (In Stealth Mode, speed is not displayed but data is collected)
 - Display Minimum Speed, Display Maximum Speed
 - Digit Flashing Speed Threshold (digits flash above selected speed)
 - Speed Violator Strobe (pulsing strobe flashes with digits or alone above Display Maximum Speed)



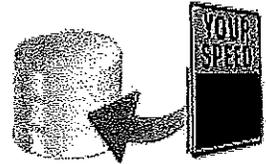
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Data Collection and Statistical Analysis & Reporting (optional feature)

- Traffic data collected and stored by location
- Stealth Mode (capture baseline traffic data with speed display off)
- Download through Serial Port connection
- Statistical Reporting & Charts
 - Summary Reports
 - Weekly Reports
 - Period Comparison Reports
 - Reporting Parameters:
 - Average Vehicle Count
 - Total Vehicle Count
 - Average Speed
 - Average Number of Speed Violations
 - Total Number of Speed Violations
 - Other Features:
 - Minimum and Maximum Speed
 - 85% Speed
 - Counters by Speed Bins
 - 5 MPH Bin Resolution
 - Reports print directly or can be exported into CSV format, MS Excel, Adobe Acrobat PDF and HTML
 - Charts may be printed directly or converted into Adobe Acrobat PDF and picture formats



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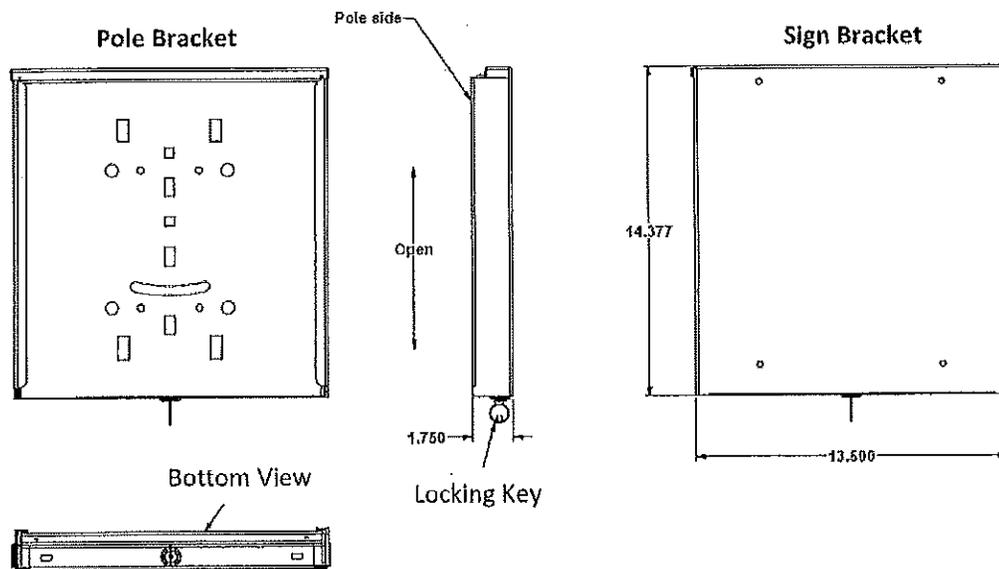


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Mounting Options

- Standard mounting bracket system (use banding brackets to fasten sign to steel or wooden pole)
- Universal Mounting Bracket System
 - Universal mounting options: circular, square and telspar poles
 - Theft resistant
 - Promotes sign portability: sign locks into mounting bracket with a turn of a key
- Sign dolly mounting system
 - Battery-powered sign recommended
 - Speed limit face plate not included
- Sign mounted to/compatible with SafePace Cruiser LT Lightweight Trailer
 - Battery box storage not included with trailer
 - See web-site trailer specifications for more details

Universal Mounting Bracket System



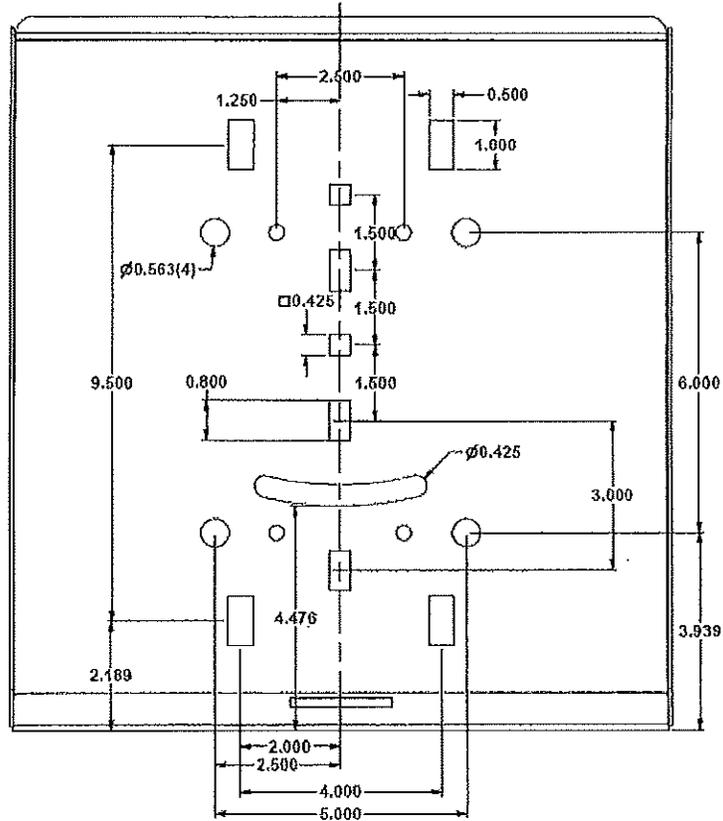
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Inside View of Pole Bracket

Inside view



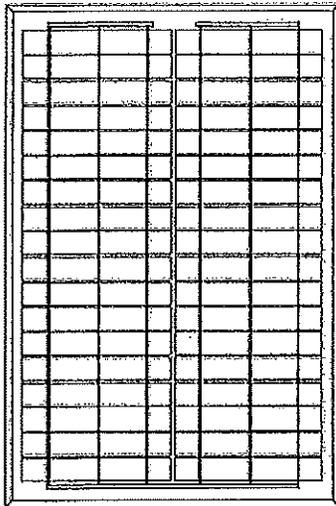
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SafePace® 100 Solar Panel Specifications (p/n: SPS1500)

20 WATT Panel Specifications



Solar cells: Crystalline solar cells

Laminate: Glass /EVA / TPT (tedlar/pet/tedlar) or TPE

Front Side: High-transmission 3.2mm tempered glass

Back Side: TPT /TPE

Frame: Clear anodized aluminum frame

Output: Junction box

Module Type	P _m (Wp)+5%	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)	Module size(mm)	NET(kg)
20 WATT PANEL	20	17.1	1.17	21.4	1.3	520*350*18mm 20.5"*13.8"*0.7"	2.0

Operation Temperature Range: - 40°C~85°C

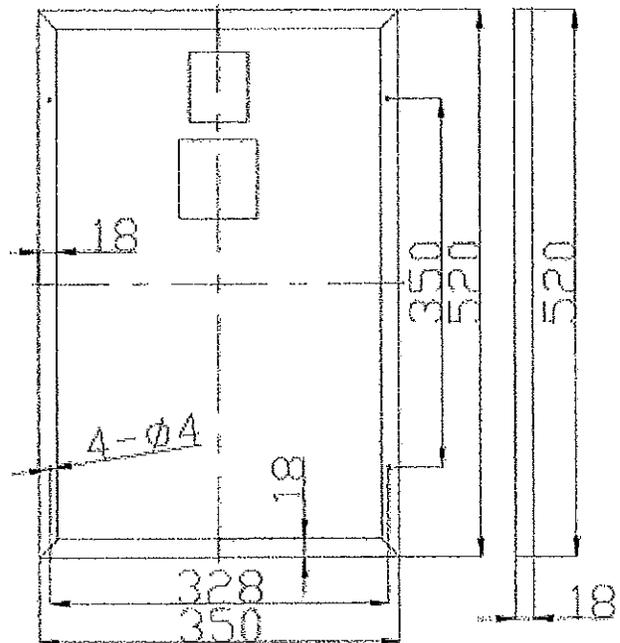
NOCT: 48±3°C

Temperature coefficients of I_m: + 0.1 %/°C

Temperature coefficients of V_m: - 0.38 %/°C

Maximum System Voltage: DC600V

STC: 1000W/m², 25°C AM1.5



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Warranty

Subject to the following conditions, Traffic Logix Corporation ("Traffic Logix") warrants that the SafePlace® 100 Speed sign (the "Product") is free from defects in materials and workmanship. This limited warranty begins on the invoice date of your purchase of the Product and extends:

- For TWO (2) calendar years on the radar sign, and
- For ONE (1) calendar year on the batteries.

This limited warranty extends only to the original purchaser of the Product when purchased either directly through Traffic Logix® or through an authorized Traffic Logix® distributor and is not assignable or transferable to any subsequent purchaser or end-user. Traffic Logix's® obligation and liability under this warranty are expressly limited to repairing or replacing, at Traffic Logix's® option, defective products. In no circumstances shall Traffic Logix's® liability, whether in contract or tort, under any warranty, in negligence, or otherwise, exceed the amount of the purchase price of the product. Traffic Logix® shall not be liable for special, indirect, or consequential damages of any kind. This warranty does not cover damages resulting from normal wear and tear, incorrect installation or operation, use other than for the product's intended purposes, vandalism, and extraordinary environmental circumstances. Traffic Logix® reserves the right to charge for these damages to the product at rates normally charged for repairing such products not covered under this warranty. Damages resulting from any physical changes or alterations made to the product other than Traffic Logix® will render this warranty VOID. Using any parts or accessories not supplied or approved by Traffic Logix®, such as battery chargers, will further render the warranty VOID.

Traffic Logix® neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale of the Product, and there are no agreements or warranties collateral to or affecting this limited warranty.

THE LIMITED WARRANTY SET FORTH IN THIS AGREEMENT IS THE EXCLUSIVE AND SOLE WARRANTY APPLICABLE TO THIS PURCHASE. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.

Traffic Logix® does not warrant that any of its products will meet or comply with the requirements of any applicable federal, state or local safety code, law, regulation or ordinance ("Applicable Safety Laws"). Buyer acknowledges that Traffic Logix's® products are to be used only in accordance with the attached Conditional Terms of Use and any Applicable Safety Laws. Buyer agrees that there shall be no coverage or benefits of any kind under this limited warranty if it is determined by Traffic Logix® that the Product was not installed or used in accordance with the Conditional Terms of Use or Applicable Safety Laws, or if the Product has been altered in any way by anyone other than Traffic Logix®, or if the Product has been subject to any misuse or accident. In addition, Buyer assumes and agrees to indemnify Traffic Logix® for all risk, liability or expense that results from any installation or use of the Product that is not in accordance with the Conditional Terms of Use or any Applicable Safety Laws.

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Warranty Replacement Procedure

In order to submit a claim for the repair or replacement of the Product under this limited warranty, you must do the following:

- 1) Obtain a Return Materials Authorization number by contacting Customer Support. Do not ship your defective product to Traffic Logix® prior to contacting Customer Support.
- 2) A Customer Support agent will evaluate the Product to determine if it is defective. If the product is defective, then you will need to submit your contact information, and proof of purchase (including the date of purchase), in order to obtain repair or replacement parts.
- 3) The Customer Service Agent will provide you with instructions on how to have defective parts repaired or replaced.

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January 26, 2018 to March, 2018

Traffic Calming: South Buckmarsh St.

Residents who recommend measures to reduce vehicular speed and noise on So. Buckmarsh St.

Liz & Dennis Cartore	101 Taylor St
LIZETIA JULIUS	105 Taylor St
Sara Steen	107 Taylor St.
Mike Koppa	205 Taylor St.
Sue White	108 Taylor St.
Quynh Huu	314 S. Buckmarsh St.
KENT SHULL	314 S. BUCKMARSH ST.
Shay Thompson	852 Hermitage Blvd
Charlotte Frie	301 Henderson Ct.
Elizabeth Cox	300 Henderson Ct.
Charles Browning.	317 Hermitage Blvd
Susan Browning	317 Hermitage C. Blvd
Marci Steinbery	313 Taylor St
Cathy Ruszorn	2291 Locks Mill Rd
Mary Peacock	301 S. CHURCH ST
Mary Speer	304 Dunlap Dr
Sue Flenber	108 Taylor Street
Susan Hembach	100 Taylor St.

Attachment 3

Keith Dalton

From: Patricia Dickinson (Mayor)
Sent: Thursday, April 19, 2018 10:21 AM
To: Keith Dalton
Subject: FW: Possum Hollow Lane
Attachments: 20180409093508393.pdf

Please add this to the S&U agenda

Patricia Dickinson
Mayor, Berryville Virginia
101 Chalmers Court, Suite A
Berryville, VA 22611
540 955 1099
www.berryvilleva.gov

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From: Keith Dalton
Sent: Monday, April 09, 2018 9:41 AM
To: Clark, Gregory
Cc: Ash, David; Rick Boor; Dave Tyrrell; Christy Dunkle; Mia L. Jackson
Subject: RE: Possum Hollow Lane

Greg:

Thank you for contacting me.

I will quickly list a few thoughts on this matter – we can discuss all of this in more detail when you are ready:

- Possum Hollow Lane is neither in the Town of Berryville nor a designated growth area
- A Town of Berryville water main (10") is located within the right-of-way of Springsbury Road
- 38 and 61 Possum Hollow Road are served by public water
- The Berryville Code (§ 17-17) requires out of town connections to be approved by the Town Council
- The Berryville Town Council will not consider out of town connections unless first approved by the Clarke County Board of Supervisors
- All costs for any such utility extension, including availability fees, will be paid by the property owner (s) / DEQ

I have attached a letter that was written regarding the connection of 93 Possum Hollow Road (7 August 2005). The letter should give you a feel for some of the issues with which the Town and DEQ will be dealing. Please note that 5th bullet of 3rd paragraph the letter addresses a comprehensive approach to serving the homes in the area. While Town staff takes no position on whether additional residences should be served with public water; if the Board of Supervisors and the Town Council agree to the connections in question, then Town staff will certainly advocate extension of a main down the road and connection of the residences.

I hope this helps. If you want to talk about this, then please give me a few dates/times that work for you and we will find a time to meet.

Take care,

Keith

Keith R. Dalton, Town Manager
Town of Berryville, Virginia
101 Chalmers Court, Suite A
Berryville, VA 22611

V 540.955.1099
F 540.955.4524

From: Clark, Gregory [mailto:gregory.clark@deq.virginia.gov]
Sent: Monday, April 09, 2018 8:07 AM
To: Keith Dalton <townmanager@berryvilleva.gov>
Subject: Possum Hollow Lane

Mr Dalton:

I called you Friday to discuss a new petroleum remediation case that I am managing on Possum Hollow Lane. A home heating oil underground storage tank leaked at the 243 Possum Hollow Lane property and has apparently impacted the drinking water wells located at 243, 225 and 203 Possum Hollow Lane. The tank apparently leaked years ago. The tank has been removed along with some petroleum impacted soil from the tank basin. Further investigations are underway and include the installation of several groundwater monitoring wells. Other drinking water wells in the neighborhood have been tested and determined free of petroleum contamination. Carbon filtration units (cfu's) have been installed on the impacted wells, so the residences are drinking "clean" safe water. The carbon filtration units will be maintained by Culligan, under a contract with the DEQ.

The wells at 243 and 203 Possum Hollow Lane are considered only mildly impacted..and may "flush out" to below the DEQ's Risk Management Levels with time. The petroleum concentrations in the well at 225 (currently unoccupied, but under contract to be sold) are higher. Like I said, the cfu's are in place and are currently providing a safe drinking water supply. The cfu's are only considered temporary until a permanent solution can be provided. Later options could include (1) monitoring for two years to determine if the concentrations in each well are statistically below DEQ's Risk Management Levels, at which point we could remove the cfu or turn it over to be maintained by the homeowner (2) installing replacement drinking water wells (3) hooking up to a public water supply and/or (4) continuing to maintain the cfu systems.

We are very early into this investigation... I am just trying to get preliminary information for determining future options. I understand that public water is not available along this area of Possum Hollow Lane, but that there is a 10-inch line 1/4 mile to the north along Springsbury Road. Are there (or could there be) any plans to extend the water line down Possum Hollow Lane in the near future?

Thank you-
- Greg

--
Gregory L. Clark, PE
Senior Hydrogeologist - Valley Regional Office
Virginia Department of Environmental Quality
4411 Early Road, Harrisonburg, VA 22801 (mail: PO Box 3000)
PH: (540) 574-7911

7 August 2005

David Duncan
Triad Engineering
200 Aviation Drive
Winchester, VA 22604

Dear Mr. Duncan:

This letter is written regarding the provision of public water to the residence at 93 Possum Hollow Road.

As you know, the Clarke County Board of Supervisors determined that they had no objection to such a connection. After I received the county's determination this matter was placed before the Berryville Town Council.

At its July meeting, the Berryville Town Council granted permission for the residence at 93 Possum Hollow Road to connect to the town's water distribution system. In granting permission to connect to the system and purchase water, the Berryville Town Council applied the following conditions/requirements:

- Owner must apply for connection and pay availability/meter/inspection fees
- Owner is responsible for all connection, permitting, and pavement restoration costs
- The connection must be made in accordance with Berryville's Construction Standards and Specifications
- Contractor making connection must be approved by the town and the connection work must be coordinated with the town
- Owner must prepare an agreement requiring the owner and his/her successors in title to contribute a pro-rata share to any future town approved water main extension serving Possum Hollow Road properties. After being approved by the town's attorney, the signed agreement shall be recorded in the land records of the Clerk of the Circuit Court of Clarke County.

Duncan
7 August 2005
Page 2

I have enclosed an application for water service. You will note that the fees have been provided. These fees are subject to change without notice. Please forward a draft of the agreement as soon as one is available.

Thank you for your patience and I wish you the best of luck on this matter.

Sincerely,

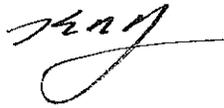
Keith R. Dalton

Cc: Town Council
Public Works
Public Utilities

Attachment 4

Memorandum

Date: 15 February 2018
To: Town Council
From: Keith R. Dalton, Town Manager
Cc: Department Heads
Mia Jackson, Town Clerk



Subject: Water Fund Projects Fiscal Year 2022 / Borrowing

During the course of the last year, I have been giving thought to how the Town should approach water projects that need to be done. Last year's iteration of the CIP blocked several water treatment plant projects in FY22. As that was being developed, I began to consider funding for this work. My thinking at this point is that the Council should consider borrowing the funds to complete several water related projects (we have some reserves that can be brought bear but not enough). The annual debt service would have to be addressed in water rates.

This somewhat informal document (and the project list below) is a working document and does not represent any sort of final recommendation. This memo is intended to inform Council and continue an important conversation about utility improvements and utility rates.

PROJECTS

Water Distribution System Upgrades \$615,000

Public Works Department

These funds would be utilized to complete water distribution system upgrades during the subject fiscal year.

Projects under consideration are:

- 1) Water main and lateral replacement on Josephine Street \$330,000
Josephine Street is making its way up the list for streets that need to be paved. The Council will have to decide whether they want this project (proposed in engineering analysis in 1989) completed prior to paving. The planned project would replace the 4" main with a 12" main (this is already been extended some 400' into Josephine Street from Church Street). The project would eliminate two dead ends (by extending the main under the RR tracks) and would serve to connect the loop line to the main on South Church.

There are alternatives to the full project that staff would be like to discuss with Council.

It is important to note that the updated hydraulic model of the water system will aid staff and the council in evaluating this project. In fact, I am considering seeking authorization to complete that project in the near future (we are in the process of updating our system map (I am meeting with Rick today) and with that in hand, our engineer should be able to do this pretty quickly). I will write to you on that matter soon.

- 2) Water main and lateral replacement on Bel Voi Drive \$135,000
Bel Voi Drive is making its way up the list for streets that need to be paved. Staff is of the opinion that this main should be replaced because it is undersized and is approaching the end of its useful/dependable life. The 4' main would be replaced with an 8" main. It is important to note that the biggest challenge of this project will be found where the main extends between two houses near the end of the cul de sac.

- 3) Yet to be determined water distribution projects \$150,000

Meter Replacement **\$400,000**

Public Works Department

The Public Works Department reports that majority of the Town's water meters are approaching 20 years in age. While industry standards regarding meter replacement intervals vary, Mr. Boor recommends that the replacement should occur near the 20 year mark. As the meters age, they tend to miss usage or fail completely and provide no reading.

The meters that would be replaced are "touch read meters". The new meters would be "radio read meters". With radio read meters in place, the Town will have reading options available currently not available. These meter reading options will allow the Town to greatly reduce the cost of meter reading and may open the door to a great deal more real time monitoring options.

Filter Maintenance and pump replacement **\$530,000**

Public Utilities Department

The Water Treatment Plant utilizes two mixed media filters to treat the Town's potable water. The filters were installed when the Water Treatment Plant was constructed in 1984. The media was replaced approximately 15 years ago. The flocculators were upgraded approximately 8 years ago. The air scour equipment, underdrains, and settling tubes are original.

This project would include the following work on the Water Treatment Plant Filters: media replacement, air scour and underdrain repair/replacement, settling tubes replacement, and coating of the interior of the filter tankage.

Then each of the two filters are taken out of service, the media will be removed and necessary part replacement and filter repair will be completed. After that work has been completed the media will be replaced and upgraded filter will be placed in service allowing the second filter to be upgraded in the same fashion.

Various pumps (original from 1984) would be replaced at this time.

Pre-sedimentation Basin Repair \$200,000

Public Utilities

The Water Treatment Plant utilizes two Pre-sedimentation basins to treat the Town's potable water. Water is pumped from the river into these basins where silt and the like settle from the water prior to being pumped into the next phase of the treatment process. These tanks were constructed with the WTP in 1984.

Both tanks have developed leaks are require repair and maintenance

The repair will be accomplished by that application of a coating on the interior of the tanks.

Water Treatment Plant Building Upgrades \$80,000

Public Utilities

This item would provide for roof replacement and replacement of insulation as needed.

Total cost of enumerated projects is \$1,825,000.

We also need to be discussing whether the Council wants to complete wholesale replacement of utilities in either Main Street or Buckmarsh Street or both. Any work there should be done in conjunction with VDOT paving to save on pavement restoration. Buckmarsh Street was last paved in October 2015 and will likely be on an 8-10 year paving cycle (next paving should be in 2023-2025). Main Street was last paved in June 2014 and will likely on a 10-12 year paving cycle (next paving should in 2024-2026). Staff does not have estimates for this work but will develop them if needed.

With all of this said, we need to determine what is to be done (and what will not be done), when it will be done, and how it will be funded.

As for borrowing, I think we would be looking at two options USDA/RDA or VML/VACO Financing. USDA/RDA generally provides a good rate and loans can be amortized out 40 years but there are a good many hoops to jump through. VML/VACO Financing would likely provide a better rate and less red tape. The downside of this option is that the loan would be amortized out 20 years. With all of that said, the life of the water lines will exceed 40 years but the life of the plant work will likely be less than 40 years. Further new water regulations will be heading down the pike and we will have to do additional work on the system. Accordingly, my sense of the matter is that 20 years would be where we would want to be.

I would like to discuss these issues in detail with Council. Let me know when you would like to do so.