



Streets and Utilities Committee

MEETING AGENDA

Berryville-Clarke County Government Center

101 Chalmers Court, Second Floor

Main Meeting Room

Regular Session

January 28, 2020

1:30 PM

Item

Page

1. Call to Order

2. Approval of Agenda

3. Unfinished Business

Street Light Pilot 3

Stormwater Preliminary Engineering Reports 5

4. New Business

Development Update 20

Intersection of East Main Street and Jack Enders Blvd. 22

5. Other

6. Closed Session

7. Adjourn

Streets and Utilities Committee Agenda Item Report Summary

January 28, 2020

Item Title

Street Light Pilot Program

Prepared By

Christy Dunkle

Rappahannock Electric Cooperative installed new lights as a pilot program on East Main Street. In order to engage its efficacy, staff will be creating a short survey that will be posted on the Town's web site.

Three street lights have been installed as part of the Street Light Pilot Program:

- East Main Street, north side of the street, by the Bank of Clarke County, changed from a 200 HPS with regular (six foot) arm to 140-watt LED on a 10-foot arm
- East Main Street, north side of the street, across from the Berryville Grille, changed from a 200 HPS with regular (six foot) arm to 140-watt LED on a 10-foot arm
- Off of East Main Street in Hogan's Alley (installed the week of January 13, 2020), changed to a 70-watt LED using the existing arm.

A map of these locations is attached to this report.

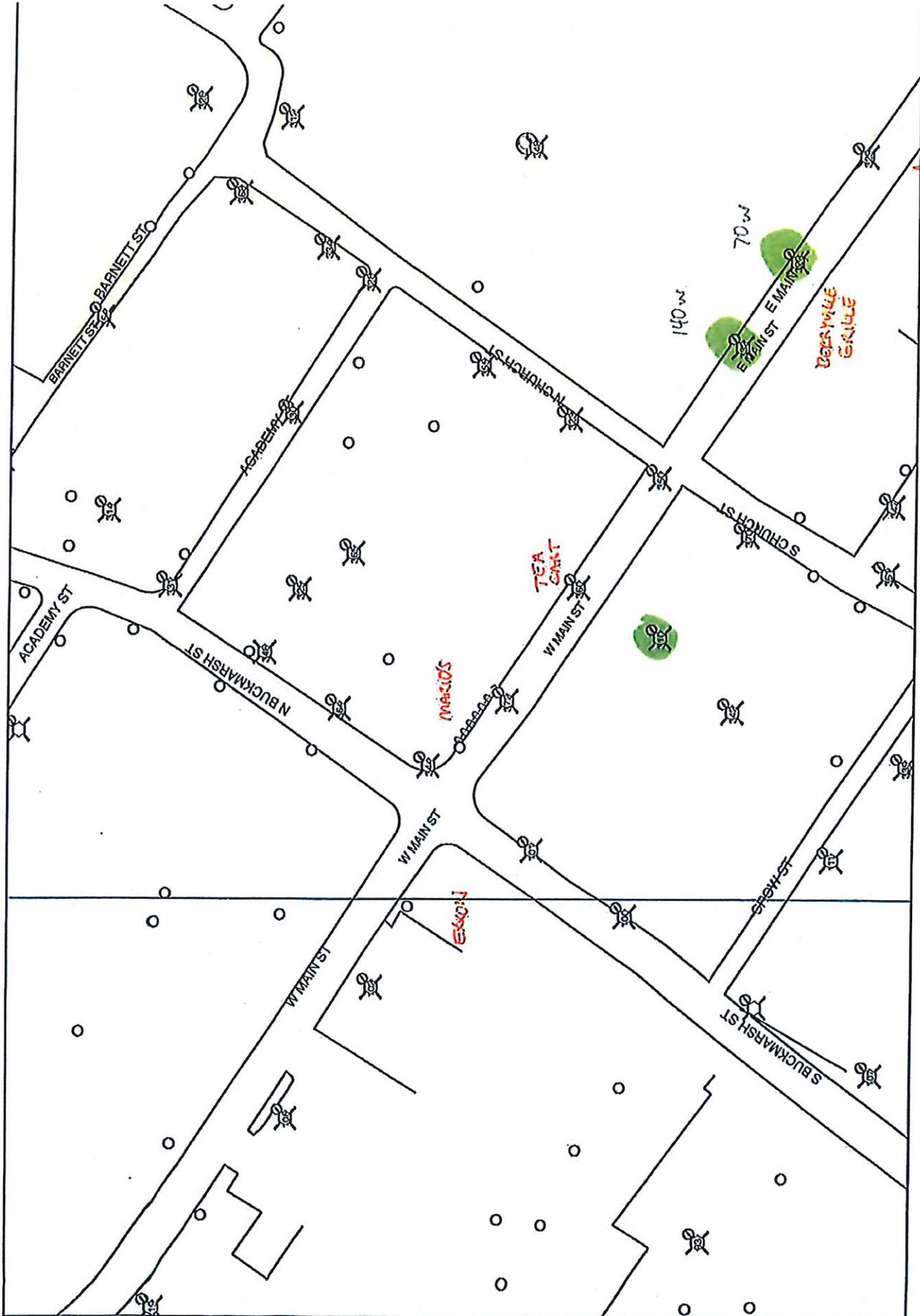
Lights in front of the Tea Cart and at the intersection of Church and Main streets were changed within the last year due to maintenance needs. These were replaced with 70-watt LED bulbs which are both on regular arms.

Questions that are being considered include:

1. What is your opinion on downtown lighting?
 - a. Sufficient
 - b. Not enough light
 - c. Too much light
2. Are there areas of the downtown that are in need of lighting or modifications to the existing lighting? If so, where?
3. What styles of lighting standards would you like to see in downtown Berryville?

Recommendation

Discuss questions to be included in the survey.



Streets and Utilities Committee Agenda Item Report Summary
January 28, 2020

Item Title

Storm water preliminary engineering reports

Prepared By

Keith Dalton, Town Manager

Background/History/General Information

Last year the region experienced a period of record rainfall. As a result of this record event, many storm water challenges that have existed in the Town for a very long time became problematic to local residents.

The Town Council budgeted funds in FY19 to review issues in the northwest of Town. The Town's engineer has completed a preliminary engineering for the northwest part of Town and the Streets and Utilities Committee is reviewing the matter.

The Town Council budgeted funds in FY20 to complete engineering review of issues on Town Run and in the Virginia Avenue area.

Town Run

This review was originally planned to examine Town Run east of the N&S Railroad tracks but the attached draft scope would include study from a point west of Clarke County School Board Office to the Clermont Farm east of the Town limits. This scope extension is proposed because of the work that was recommended to address water ponding concerns in the northwest portion of Town.

This review is proposed to provide to address two issues or concerns. It must be confirmed that the work proposed within the Town Run the drainage area will not cause problems for property owners below. The review should also identify areas where the channel can be improved to reduce flooding risk.

Virginia Avenue

This review was proposed to provide a plan for abatement of two issues. Water from the southwest travels across Virginia Avenue (at first dogleg) but is not able to make it to the Town Run. As a result, the water ponds in the street. Further, water crossing the street further east (at second dogleg) often flows into a garage.

Staff has recommended that work be done on the Virginia Avenue surface but is of the opinion that these storm water management challenges should be addressed before work on the street surface is completed.

The Committee last reviewed these drafts in September and directed staff to finalize scopes of work for their consideration.

Findings / Current Activity

Staff has prepared two scopes of work for the Committee's review.

Financial Considerations

When the scopes of work are finalized by the Town Council, they will be submitted to the Town's engineer. The Town's engineer will develop work orders for the projects. The work orders will contain cost estimates.

Schedule/Deadlines

Staff recommends that this review move as quickly as possible so these projects can be completed this fiscal year.

Other Considerations

The Town Run study should be completed before commencement of any project upstream.

Attachments

- Draft Scope of Work for Town Run PER
- Draft Scope of Work for Virginia Avenue drainage area PER
-

Recommendation

Forward draft PER's to the full Council for consideration.

Sample Motion

I move that the Streets and Utilities Committee forward the attached scopes of work to the Town Council for review.

Scope of Work for the Town Run PER

Information provided:

Attached Map

- Map from Berryville Planning Area Stormwater Master Plan. Important details:
 - o Map provided in three sheets
 - o Scale: 1" = 200' / 2" contours
 - o Blue – Town Run study area

Issues:

In general, the Town Run (intermittent and perennial sections) functions relatively well in its role of conveying water through Berryville. Further, development within the watershed over the past three decades was completed in a manner that would mitigate the effects of increased stormwater runoff.

With that said, there are sections that are not well defined, have been partially filled or silted in, or have constrictions that may restrict the flow of water. Further, the Town Council is examining whether it should complete projects to mitigate stormwater ponding in portions of the Town Run drainage area.

Accordingly, it is important to know whether the Town Run can accommodate flows from the projects in question and whether work should be done to better define the Run's channel in order to improve conditions and reduce potential constrictions.

Scope:

- Visually inspect area. Report any obvious issues and enumerate any further study that may be recommended.
- Examine structures along the Town Run main channel and those highlighted on the attached map (two areas highlighted : 1) structures connecting area northwest of Smith Street to the street drainage system to the main channel at Lincoln Avenue and 2: structures connection Sub-system E to the street drainage system to the main channel across Main Street from Washington Square Apartments)
- Provide recommendations for improvements to the Town Run and structures and channels draining to the Town Run in order to provide for unobstructed flow of water in the control storm for the natural channel and associated structures. Recommendations concerning larger storm events may be included as the engineer sees proper. Recommendations regarding the natural channel should take into account ease of maintenance.
- Provide a recommendation regarding whether eliminating the doglegs in the Town Run near the Town's eastern corporate boundary would reduce flooding risk.
- Provide schematic plan of recommended projects
- Provide prioritization of recommended projects
- Provide cost estimates for projects shown in schematic plans (to include design, legal, easement acquisition, permitting, and construction)

- Provide a determination as to whether completion of proposed drainage projects (Dorsey Street Area/Jackson Drive SWMA drainage area, Ashby/Archer Court -Walnut Street drainage area, and Virginia Avenue) will be deleterious to downstream properties.

Information available:

- Berryville Planning Area Stormwater Master Plan.
- Stormwater Management Options Final Technical Memorandum (dated June 202)- U.S. Army Corps of Engineers
- Development Plans within watershed

Outstanding Issues:

- Will need to address access issues along the run

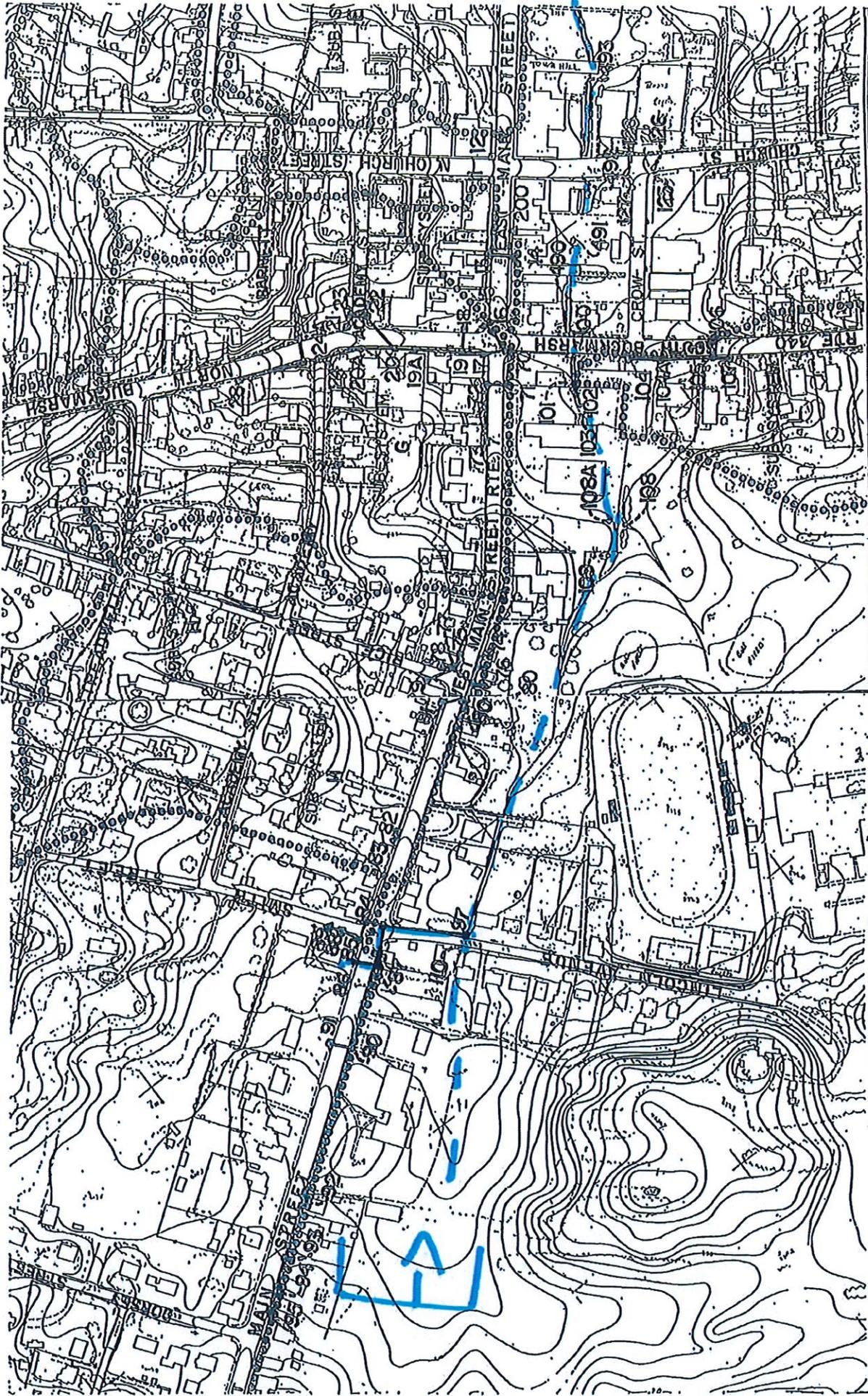
Deliverables:

Provide a detailed report addressing all elements of the project scope.

Schedule:

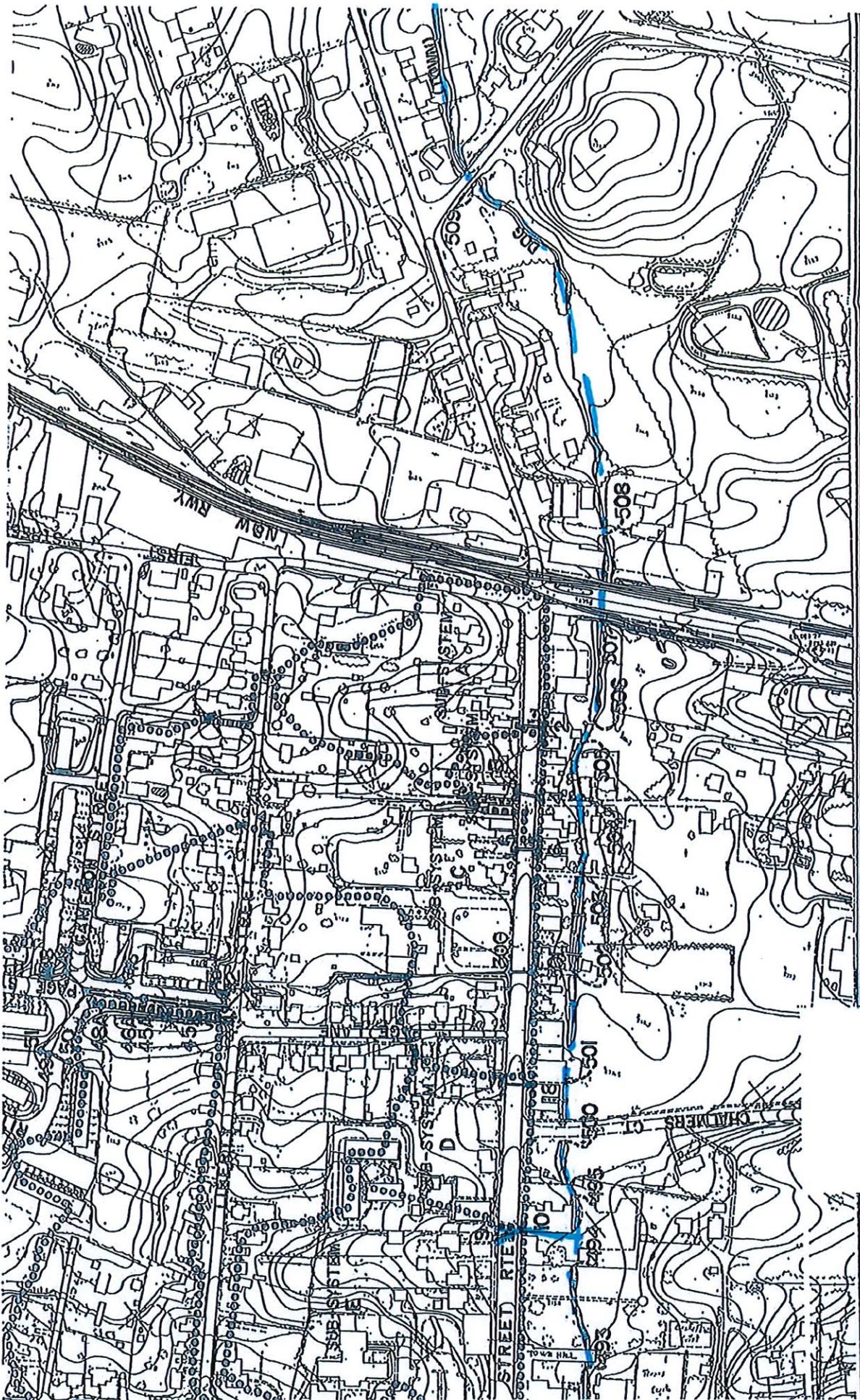
Submit draft report no later than June 1, 2020.

Submit final report no later than June 30, 2020 (assumes Town's comments received by June 15).



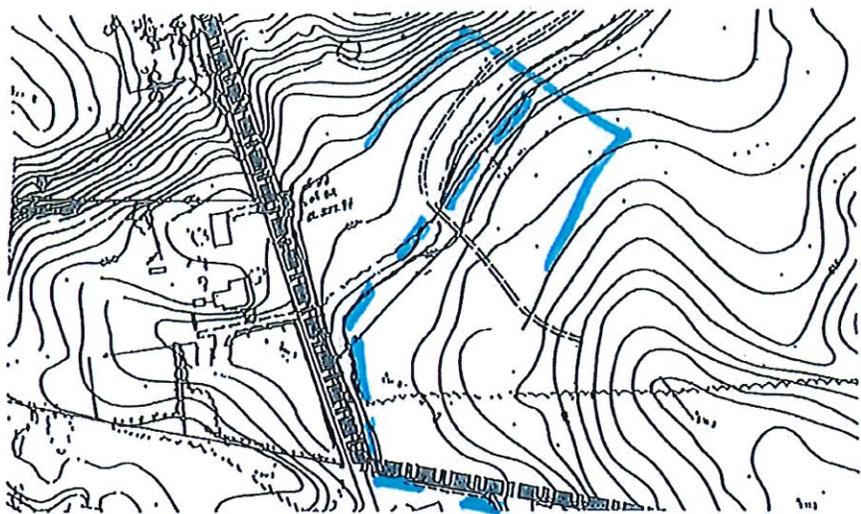
MAP 2 →

MAP 1



MATCH
MAP 2 ->

MAP 2



MAR 3

Scope of Work for the Virginia Avenue drainage area PER

Attached Photos

- Photos of Area # 1
- Photos of Area # 2

Attached Map

- Map from Berryville Planning Area Stormwater Master Plan. Important details:
 - o Scale: 1" = 200' / 2" contours
 - o Orange – Virginia Avenue
 - o Blue – Town Run
 - o Pink – Areas of Concern (Area # 1 and Area # 2)
 - o Green – Properties on which most of work would have to occur. It should be noted that work on the opposite side of the street may also be required.

Issues:

AREA # 1

Water ponds in the area identified as AREA # 1 on the attached photos and map. Water flowing from the southwest flows over VA Avenue and ponds in the street. The water can't get to the Town Run because the property to the northeast has either silted in or been built up.

AREA #2

Water from the south travels along and in Virginia Avenue and then flows into the property in the area identified as AREA #2. Water often flows into the small garage north of AREA 2.

Scope:

- Visually inspect the area. Report any obvious issues and enumerate any further study that may be recommended.
- Complete field work to determine if grade can be obtained to establish positive drainage from the areas of concern to the Town Run.
- If positive drainage can be established, then provide schematic plans for improvements to area that will convey water from areas of concern to the Town Run.
- Provide cost estimates for project shown in schematic design (to include design, legal, easement acquisition, permitting, and construction).

Information available:

- Berryville Planning Area Stormwater Master Plan.
- Stormwater Management Options Final Technical Memorandum (dated June 202)– U.S. Army Corps of Engineers

Outstanding Issues:

- Will need to secure permission from at least 2 property owners to shoot grades

Deliverables:

Provide detailed report addressing all elements of project scope.

Schedule:

Submission of draft report by March 2, 2020.

Submission of final report by March 31, 2020 (assumes Town's comments received by March 16)

DRAFT





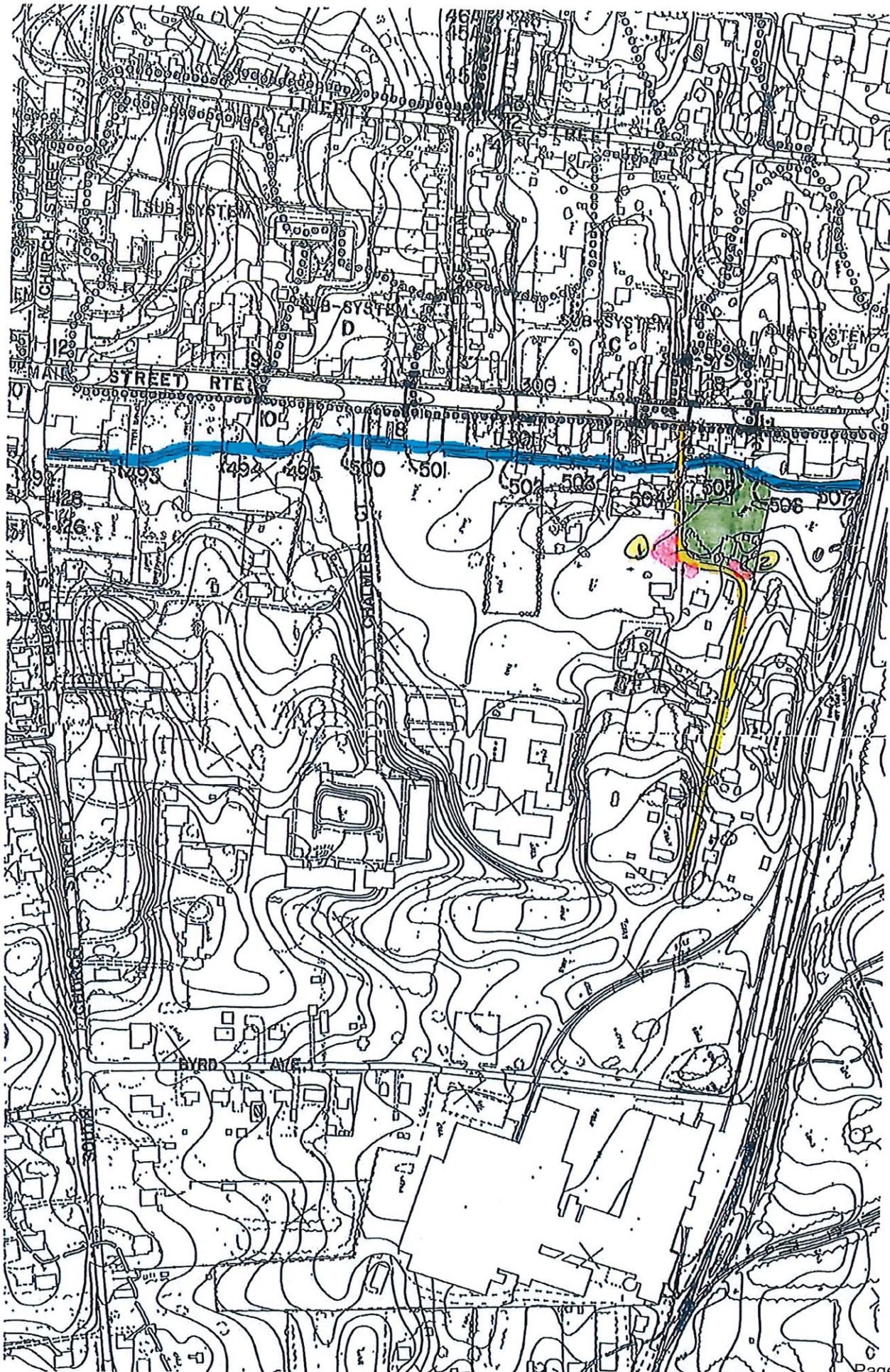


Area # 2





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Streets and Utilities Committee Agenda Item Report Summary

January 28, 2020

Item Title

Construction Project Update

Prepared By

Christy Dunkle

Robert Regan Village

- 120 age- and income-restricted apartments
- Construction underway
- Staff attends monthly progress meetings
- Anticipating substantial completion by August, 2020

Shenandoah Crossing Subdivision

- 82 single-family homes
- Owned by D.R. Horton, Inc.
- To be developed by D.R. Horton, Inc.
- Zoned DR-2 Detached Residential
- Cluster layout
- HOA maintained
- Review of construction plans has been completed
- Public hearing for final plat held September 25, 2019, BADA approved as presented
- Pre-construction meeting held on Thursday, December 19
- VSMP approval from DEQ received
- Construction plans and final plats have been executed
- Land disturbance permit issued
- Clearing activity has been moving forward
- Anticipated utility work on Petal and Page streets to begin the week of January 28, 2020

Fellowship Square Subdivision

- 50 single-family homes
- Owned by Fellowship Square Foundation
- To be owned (currently under contract) and developed by D.R. Horton, Inc.
- Zoned DR-4 Detached Residential
- Cluster layout
- HOA maintained
- Review of construction plans has been completed
- Planning Commission approved the final plat on December 18, 2019
- Pre-construction meeting held on Thursday, December 19
- VSMP approval from DEQ received
- Construction plans have been executed

- Ownership signatures are being modified for the final plat documents with the sale of the property to D.R. Horton, Inc.

Hermitage Phase V

- 71 single-family homes
- Owned by Silver Lake Development
- Final phase of Hermitage subdivision (started 2000)
- Zoned R-1 and DR-1
- Rezoning approved by Town Council at the September 10, 2019 meeting to align new layout with proposed parcel lines
- Phase V will have HOA oversight, other phases will not be affected
- Review of construction plans currently underway
- No anticipated start

**Streets and Utilities Agenda Item Report Summary
January 28, 2020**

Item Title

Intersection of East Main Street and Jack Enders Boulevard

Prepared By

Keith Dalton, Town Manager

Background/History/General Information

Town staff has received three complaints/concerns about the intersection in question. Those concerns are:

- A citizen expressed concern about sight distance to the east when entering Main Street from Jack Enders Boulevard.
- A citizen expressed concern about trucks crossing in to the westbound turn lane on Jack Enders Boulevard when they are turning onto the street from Main Street. This person was involved in an accident at the intersection.
- A council member expressed concern that there is no sign (other than pavement markings and the stop sign) at the intersection that would tell drivers that that will have to stop and either turn right or left. It was suggested that a sign be placed on the north side of the intersection that would alert drivers that they must turn left or right. This concern is expressed in light of the recent incident where a driver did not stop at the stop sign and crashed into the hardware store.

Findings / Current Activity

The sight distance to the east is limited by vehicles parked on the adjacent lot. A review of the limits of the right-of-way in the area will reveal whether the vehicles are encroaching on public property or any established sight distance easements.

Many drivers turning from East Main Street (left turn) onto Jack Enders Boulevard are crossing into the west bound turn lane of Jack Enders Boulevard.

Town staff (Town Manager and Police Chief) met with VDOT officials regarding the first two concerns (the last had not been received at the time of the meeting). During the meeting traffic was observed for approximately 30 minutes. VDOT is reviewing the matter and will attempt to make recommendations regarding possibly marking of the intersection differently in order to encourage those making turning movements onto Jack Enders Boulevard to do so without entering the westbound turn lane. The position of the stop bars is also being evaluated.

VDOT officials were asked to provide a copy of the plans used for the last upgrade of the intersection in question. These plans will provide information regarding existing right-of-way (and any sight distance easements) and will shed light on whether measures can be taken to improve sight distance.

Financial Considerations

Unknown at this point

Schedule/Deadlines

Schedule for VDOT review is unknown. Staff's goal is to work with VDOT to agree upon any marking or signage changes (if any) and have the new markings applied in the spring as weather permits.

Other Considerations

None

Attachments

None

Recommendation

Await VDOT review

Sample Motion

None