

Call to Order:

The meeting was called to order in the Cannery Village Rec Center at 6:30 PM on December 8, 2020 by Councilman Sam Garde

Role call:

Councilman James "Sam" Garde, present
Councilwoman Randi Meredith, present
Lee Revis-Plank, present
Walter Tydings, present
Miki Mathe, present
Steve Callahan, present
Chief Harvey, present
Greg Wingo, present
No visitors.

These minutes shall be the final minutes when approved by the Ad hoc committee. The discussion was recorded, then transcribed by Councilwoman Meredith. The recording is available in Town Hall. Additional documents were handed out or emailed to members of the committee.

Sam: Any additions or corrections to the agenda?

Randi: Minutes are not completed.

Sam: That is understandable.

Randi: Motion to approve the amended agenda.

Walt: Second
7-0

Old business and any new thoughts on the resolution that established our committee? Or are we all pretty comfortable.

b. New thought on accomplishing the responsibilities? We named 3 segments. Federal, Little Hill, Lavinia

Miki: I think it would be appropriate to include a vote on whether or not we want lighting on each segment.

Sam: Yes.

Miki: Can I add that to the agenda?

Sam: No, we can't vote on anything that's not on the agenda. That's a FOIA requirement. But I think under recommendations for lighting plans...

Miki: (unintelligible)

Sam: If we're ok with the approaches. Are there any reports from members? Any additional comments from our master electrician who was not here in person last time?

Randi: I have a couple of items. I read a lighting study, the WATERTOWN-CAMBRIDGE GREENWAY LIGHTING STUDY. WATERTOWN CAMBRIDGE GREENWAY

April 28, 2017." And it basically outlines why on this particular greenway they recommend lighting. I want to point out a few of them.

"The lighting should ideally serve these functions:

- Provide sufficient light levels so that the surface of the path can be seen clearly, and any obstacles detected.
- Provide sufficient illumination on people's faces, so that approaching persons do not appear as dark silhouettes."

That cannot be achieved with bollards because they are low.

"• If the surrounding area is dark, some light should be spread onto the ground on either side of the path, to push back the shadows for an improved sense of security."

I just want to make sure we are considering that.

"• Put the light only where it is needed, and not into areas where is not needed."

"• Light only to the minimum levels absolutely required for the task."

To limit ecological impacts.

"• Turn off the lights when they are not needed."

I don't know that we could establish something like that. When they are not needed?

Miki: After 10 o'clock

Randi: It also recommends the color temperature for fixtures is 3000k. Which is a warm white. And I don't know anything about that.

Sam: Well, I can potentially shed some light on that. Walt knows what this means. I'm going to pass out an email that I sent but you may not have had a chance to look at. I'm fairly sure that any LED supplier can come up with similar or light like this.

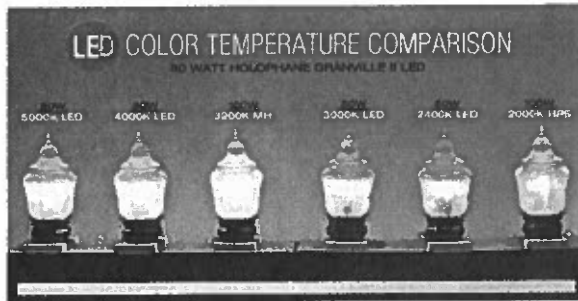
Randi: So, this study said 3000k, that's what they recommended. And to use LEDs because then there aren't any ultraviolet light emissions which affect animals and plants.

Sam: We only have 1 look at a 2000k, that on the far right of this picture.

Wal can you gives us any indication of what these terms mean? 100watt 2000. (unintelligible upon transcription)

Walt: Your based on the kelvin scale of color, that's the bar that goes across the bottom. From a blue white to a very yellow.

Walt describes the following chart:



LED, 100watts 3200K MH, that's metal halide. Metal halide is a technology that been around for 30-40 years, they replaced mercury vapor. That's the color you get period. Same holds true for the far right, that HPS is High Pressure Sodium. Everything you see outside the door here, the parking lot, all through Wagamons; that's High Pressure Sodium.

LED the tech available today, you can get any color that you see on here [on this chart]. From 2700k to 5000k actually they have a 6000k that is real blue-white. The lights you pointed out on Union Street, Chief, that is LED. So, it can be any color and any wattage. The wattage has no bearing on the color output or color type. There's also some reference for some of these on a color rendering index, a CRI. The Holophane fixtures showed a 70 CRI on that particular LED. For lack of a better word, that is a less expensive type of light. That means it has a direct effect on how your eye perceives color. So, an example on a 4000k lightbulb with a 70CRI you may see red. But with an 80 CRI you may say its brown. On outdoor lighting the CRI isn't that much of a factor. The biggest factor is the degrees in kelvin. And it saves you of wattage output. And that transference you lose on per sq foot for how much light you're putting on a specific item. Looking at whatever the limits are on these lights, you can see everything in this room. We're up to 50-100 lumens per square foot. The only requirement for lumens on a pathway and lots is 1/2-1 lumen per square foot. That's minimal lighting to be able to see. But not necessarily a way to identify people or things. It's strictly to maintain safety so you can actually see a walkway vs plants next to it. It's all that's required per law per code. So, we have those choices unless we end up with Delmarva provides and then you can forget everything I just said.

Sam: Thank you. When I reads things like watts, LED 4000k I'm good at reading but I don't own that. I know what a 75 watt bulb means. I know what a 200watt bulb means. I don't know 400k LED means. But having said that, this was provided to us by Holophane which was one of the cos that provides one of the bollards that we've all seen in Georgetown in the circle. There are several demerits about that one of which is that the whole place is lighted terrifically that its hard to tell what is does. That being said, this company is being responsive to our requests. I reached them on the phone. I contacted their man who is known to Greg

and Mrs. Rogers. He has been in town any number of times he's familiar with the lighting in town and he has been very helpful. The one thing he could not confirm or deny categorically and technically was the ability of the Charleston to be properly shielded. I requested it be shielded 160-180 degrees. And his verbal report was that he would take that to engineering dept and make sure that is was feasible or not for whatever reason. So, its listed as an option on the f1st and 2nd night.

Randi: So, I also found these different bollards. VeeLight Industrial and Commercial Lighting. The angle is such that it only points on the path. It would be pretty effective. If our goal is to just light the path, I don't think the type of light that just projects out is appropriate. Rather it should just be on the path.

Sam: Walt sent some photo of other light that is at the Lewes Museum. Same Garde drove over there twice when it was dark, but before 6 o'clock, the library was closed, and the lights were not on. But they were on both sides of the path and they illuminate down. They are shielded like the shoebox light. They are so low. They needed it on both sides of a narrower path than what we are talking about. But Walt pointed them out and I am certain there are other lights that we haven't done any diligence on. There a Charleston LED series and we don't know if it will work in our application as of tonight. Hopefully we will. That's one of the reasons that we scheduled a meeting for next Wednesday. Greg you had information related to item b on the agenda.

Sam: I spoke to BIKE DE. He forward my contact info to Paul Moser, who works with DelDOT, he was a project manager for the trail. Basically, he reiterated that our options are limited with Delmarva. He had input on bollard maintenance and upkeep. In his experience there is a very minimum concern, and he would not factor that in. With his experience with bollard lighting, he hasn't experienced destruction by anyone. Take that into account as part of our concerns.

Sam: Any other observations anyone wants to make?

Let's move on to info provided by town staff on lighting style. Greg's handed out with the agenda a lot of info that is relevant to lights in town and that should be considered for lighting this path. I had a chance to review this and have no questions. It's pretty clear but I would like you to describe the conduit installation, because in the old days you would go to Delmarva power and they would do the whole things, conduit, wiring, installation and the whole shebang. Today they don't. Greg would you mind giving us what Delmarva will do. What is the most they will do? What is the least they will do? And what would we have to do?

Greg: If we go with Delmarva Power, the installation of the lights, they no longer install the conduit. They

would install the electric to the panels. Up to a contractor of our choosing at that point to run down the trail with the conduit then they would come through and install the lights, base, wire, hook it up. If we choose other than Delmarva power. Will come in, install the electric panels, then from that point on will be up to the town and the contractors has do the project. So, we can change up the conduit, we don't have to use what Delmarva power says. And of course, the responsibility from the panel boxes all thought he conduit, the wire, light installation in on the town. Installation costs and upkeep.

Sam: May I ask a question? Since I am a dinosaur, maybe between walt and yourself how will conduit be installed?

Greg: We've had this convo with Delmarva Power, back and forth. And actually, Delmarva Power has a contractor that does the installation. The majority of that path would be bored to run the conduit.

Sam: They basically run it underground is one fell swoop.

Greg: You would need on federal segment, two pilot holes and they run the conduit underground.

Sam: with a borer. To me that's new tech, to me to install conduit you used a ditch-witch. And dig the ditch, lay the conduit and fill the ditch back up. You just use a boring machine now. What directions, what curves to take. Straight lines.

Greg: That's correct. Its less damage to the property that you see and boring costs run about the same or cheaper than a trench.

Sam: Does the conduit go right with the borer?

Greg: Yes.

Sam: The pvc pipe goes right with it.

Greg: Yes.

Miki: Sam, you were even more advanced than we were, we used a pick and shovel.

Sam: Is that actually computer controlled?

Greg: Yes.

Sam: That's what I thought. Great.

Walt: Great questions on that. You talk with Delmarva Power more that I do. I received the same letter. Being a contractor, about Delmarva changing their responsibilities as far as what they provide. But it was my understanding that this only pertained to structures,

if you're building a house or a building then it was up to the contractor to install the conduit for them. I'm not sure about securing the wiring or not. I didn't pay that much attention to it. What they power on to the property. But I didn't think this applied to streetlights.

Greg: No this is the same for a structure or a path. They bring it to the prop line set electric panel at property line, then you take responsibility for getting the conduit it.

Walt: I know you core bore everything. That being said, I have two things to bring to the table. This is a revelation here. If Delmarva is no longer doing this, because I initially got a call two years ago with town council.

Years ago, you go to Delmarva and say put in a light for us, and its done.

Sam: Basically, it was going to be a turnkey. I voted on this, and my understanding at the time was incorrect because I thought it was going to be a turnkey.

Greg: No, it was never even put out that way. Because it was approx. two years maybe a little longer ago when Delmarva changed the guidelines on the conduit. So that price was added in there. It was an \$80,000 estimate, from Delmarva Power, that they got an estimate from their own contractor so we would have something to go by.

Walt: I came from a world where we had utilities as Delmarva ... by Excellon. That what was done. I understand why they would do this on residential, commercial and industrial structures. It's for the protection of their people and their liability. That being said, why would we go with them if we can go private to a contractor who is in the business of boring. Cause a boring machine, is set up today where you buy pvc covered wire, you order the size you want, its polystyrene. It looks like a black water pipe the wire is already in it. You run the drill, it pops up on the other side you bolt the cable to it, you pull it through and you're done, one done one shot deal. And then you just terminate that end at the pole bases. It's very simple for people who are in this business. I have experience with this, it's amazing how quickly it went and how efficient. The computerization of the coring boring machine and then the finders they use to sweep the ground and know exactly where it's going. It's like a snake going underground they can direct it. I saw them hit a 2'x2' area from 80' away. The tech is that good and quick. No damage to the environment. No wire to pull in, no conduits to maintain, it's tough enough you don't have to worry about the backfill, there's no backfill. Its pulled through. Hole it creates. I'm going on public here, why would we use Delmarva Power when they restrict us to two fixtures that don't suit our needs except from the bridge to federal street.

I still suggest we need to put it out for private bids. Select 3 contractors that have the capabilities and or a normal recognized boring company to work in conjunction with them as a subcontractor and do this installation

Greg: that good info that you shared with the committee. I myself have been in many projects with poly tracer wire, it's a good conduit in a whole for electric lines

That why I said from the get go, we have to choose Delmarva to the electric so they will run everything to the power boxes for this trail there.

Their guidelines if we go with them say you have to use this conduit and you have to have a contractor to bore this conduit and for them to do their work. The reason why I wish to have Delmarva take care of the responsibility because these are a maintenance nightmare, we have several lights in the town that are the town's, not Delmarva, going back many years, there are some on union, in the park, on r 2t 1 and everytime they go out or there is something wrong it doesn't get fixed just like that. Most of your electricians don't carry and keep on stock the stuff to fix these lights. So, you have to get on someone's schedule. I've waited a month and a half for a pole for one that was struck on union. So, the maintenance is an issue and the time it takes to get this and that done. That's why I want Delmarva to do the complete project, so they take the responsibility. I mentioned at the past meeting. If we take responsibility for Little Hill, and Lavinia putting in bollards they will be my responsibility to maintain so I shared my info and thoughts. I can compromise. But you have to keep in mind constantly putting more and more on PW is an issue. Especially with staffing. The cost, it doesn't cost me anything to punch in for Delmarva to come fix a pole. Every now and then I have to call for a status for a pole if something is going on and they didn't email back. There are two options with that. We know Delmarva is going to supply these lights no matter what. They supply the electric. At least 3 town boxes set and then if we choose Delmarva Power we have to get a contractor to lay in what they recommend for the conduit and they come in and set all the poles and then its their responsibility. If we spilt the lights up here and they with lights not from Delmarva Power then we are taking on the complete responsibility from the boxes and the conduit, getting the boring contract to do the work, selecting the lights and purchasing and that will be an extra cost and that will be an extra cost to their residents for forever.

Sam: I have a reply. Because we have segmented that if we have a segment that agrees we should recommend as grandville lights we are adding 5 or 6 whatever the number is, the maintenance responsibility to Delmarva power is almost nothing. It's a big deal for us for a number of reasons. My thought is on one vote. Everything else is up to the committee. No. There are 7 voting members could be 6 for one thing. Its only

relevant if the committee wants Grandville type lights to coincide aesthetically with the town and wants the path to look like the entrance to Wagamons West Shore.

Anybody else have anything on item d. old business?

Miki: Regardless of whatever it is, there is going to be costs for maintenance, costs of time. And so be it, it might cost more but if we provide the kind of things that are going to meet the need and still satisfy a segment of the population their dues, their cost. I don't think we should make a decision on what kind of light because the town doesn't want to pay maintenance.

Sam: We appreciate your opinion.

Greg: I don't understand what you said. From what I gather you don't want to select the light because of the responsibility of the town.

Miki: No I'm saying that we shouldn't be restricted only because that type of lighting is not available from someone. If we want a specific type of lighting that should be part of the budget. It doesn't matter if the town has to pay for it or not.

To say we are restricted to these lights and tough patooties that's what you're going to get because of the maintenance costs then we are back to square one and that's exactly what the council decided.

Greg: No one has restricted anyone. I am giving you my side of the story for a reco on what I have to deal with every day. Easiest for PW is to go with Delmarva power. Do I agree that we need something different form the little hill to Lavinia? Yes.
Do we need to install a huge bulb in that area? No.
We need to open our bubble up and discuss the lights that suit that are. But keep in mind the opportunity out there is still Delmarva Power for federal segment and then we take on Little Hill and Lavinia. Just my opinion and recommendation s for all to think about. WE are not limited to three lights. We just need to discuss and talk about them.

Sam: Thank you both. My thought is that nothing is off the table. Everything is on the table. But we are pressed for time and we have to vote on some specific things, and we have voted with good reasons with diligence.

We need to narrow it down for a meaningful recommendation with the backing of the committee. We to narrow the field.

Steve: Our charge is to recommendation to TC?

Sam: Yes

Steve: So, are the chances of it being affected by our selection of Delmarva?

Sam: To me that question is irrelevant because. We are to make a recommendation and we consider whatever we consider. If we recommend something, we think they will reject than that's what we recommend. I don't want to be limited by what we think M&TC will approve.

Greg will say the same things to M&TC that he says to us.

He's a professional her out liason, he's in charge of our PW dept. He has years of experience in Milton, this business and he knows his relationships with contractors, suppliers and Delmarva power. That's a powerful voice and he's part of our committee so we listed to him. At the end of the day, we vote on what we want. And What we will recommend.

Chief: Just want to say something from the outside, not in the being a council person not working for the town. All the council meetings I've been at, the TC takes strong consideration from the committees because they can't sit in all meetings to make decisions. This isn't purposeless. They will place a lot of weight on what we've done here.

Sam: I've been on council for 5-7 years. I probably voted against a committee recommendation at some point, but I don't remember. We look to the committees to do the heavy lifting. When they make a rec, we consider it extremely seriously.

I'm sure there are some that have been rejected. But I don't recall any.

Any other comments or info? The big deal on tonight's agenda. I'm going to make a request for a tabling of item 7c. Reasoning is that we still have insufficient knowledge and potentially no real info only anecdotal. If the Charleston bollards by holophane can't be shielded. So, if I could have a motion to table item?

Greg: Table b & c? Aren't we going to discuss different types?

Sam: I see no reason to table b & c. Just a. Masks must be kept on at all times for use of this facility.

Moving on to 7a.

Miki: Motion to table 7c
Randi: 2nd

Role call vote: 7-0

Sam: We have tabled 7c.
We have this room reserved for next week.
Any motion for the Federal St Segment?
From federal to the east side of the bridge.
610 feet from federal to the trestle bridge.
Did that end at the fence pole?

Greg, right at the trestle.

So, you would take 20' off that.

Sam: So, let's say about 600' of lighting
Can we have a motion for lighting that segment.

Walt: Based on Greg's opinion. I've walked the whole thing. Based on Greg's thoughts tonight and Delmarva Power. On the Federal segment that is Phase 1, that's town lights?

Greg: Yes.

Sam: Phase 1. We are Phase 2 because Phase 1 was Chestnut to Federal. Until tonight I thought those were Delmarva lights.

Greg: Those are ours on phase 1 11' Granville lights.

Walt: are they metered somewhere?

Greg: Yes.

Sam: They are metered at...?

Walt: We have Delmarva provide lighting for Federal Segment. They bill us monthly on these fixtures They would tap into existing wiring that is there to power those fixtures. I'm going to use a round number because there are 300' in Wagamons, there's going to be 3 lights there. That's more than adequate because of what chief said about the residents being receptive to it. That' makes it very simple. WE have Delmarva install and maintain those lights.

Sam: Open the floor for a motion.

Greg: If I may add, it would probably be more than 3 lights.

Walt: ok.

Sam: My thought would be 4 lights. 1 at 0, 1 at 600, 1 at 300 1 at 150, 1 at 450

4 would be 0, 600, 200, 400

Chief: Will Delmarva do part of it?

Greg: Yes.

Sam: The only thing we have to do is, conduit and cable.

Greg: They will pull the cable. We would be hiring the contract to do the conduit.

Walt: Will Delmarva provide the wire?

Greg: yes.

Lee: In phase 1 we have 8 lights. What's the distance?

Greg: The total distance?

Lee: I'd like to make it the same distance on the other side so its equal.

Greg: it was over 600.

Sam: Those are on 100' centers

Lee: So, we need 6.
We have a precedent.

Sam: I will opine on that. Whatever detail we leave out will be selected by others.

So, if we want specific number of lights we should agree on that number and include it in our rec. Keeping it at 100' in my opinion, lighting at 100' is overkill.

Having walked it, it is more than enough. One of the reasons no one complained is that its commercial. It provides security for the blockyard and medical facility. Every segment we're talking about has closer ties to residents. On the south side there are 2 homes. 1 west of the waterway, one on Federal St.

Greg: Recommendation. I would install 3 Grandville lights, a 1 20' shoebox light on the bridge. To help cover the bridge area. And help direct the light on the bridge.

Randi: That would shield more of the forest and water?

Greg: This will be all Delmarva Power for Federal Segment

Randi: Are you rec'd that because it's what is available?

Greg: In that area, because I don't believe 11' or 14' will be enough light to help light up the bridge. The shoebox light is a good directional light, getting it up 20' will light just that are of the bridge up.

On the other side I would recommend another 20' shoebox on the other end of the bridge. Because that is a potential trip hazard area, fall hazard. Better light that up the better. I would say just 3 lights to stretch over the 100', I believe, and chief can correct me if I'm wrong. That area is lit up a bit already. So, reducing the lights would be fine. Just 3 Grandvilles, 1 shoebox on Federal.

Sam: From a lighting standpoint, it will provide more light in the darkest area. The darkest area is in the canopy of loblolly pines. Especially on the Lavinia side. But I don't like shoebox lights.

Greg: It is better light and will light it up better.

I don't like the cobrahead style of light. On rt 1, major roadways.

Sam: Will the shoebox light be available with a shield in the rear?

The Lewes Library lot and the adjacent lot has shoebox lights, like the picture in here, are not well shielded. Can you get them shielded more deeply on 1 side?

Greg: On the back side of the light? I can check tomorrow.

Miki: We don't need lights in the woods.

Sam: Councilwoman Meredith has specifically asked to shield the wildlife and the water.

Walt: This type of shoebox is available from all mnfrs. To install a cutoff based on your needs. You can restrict the output from all 4 corners.

Sam: Would you amend your motion?

Walt: I amend my motion to 3 Grandvilles and 1 Shoebox between Federal and the trestle [Federal segment] provided by Delmarva Power.

Randi: Second

Miki: How far will the bridge be lighted up from 1 side.

Greg: The only way to get the full length is to attach in the middle of the bridge. Other than that, there is no possibility.

Steve: You vision is a shoebox on each side of the bridge.

Sam: Motion is 3 Grandvilles evenly space and a shoebox as close to the trestle as we can get it. Supplied by Delmarva Power.

Role Call: passes 7-0

Sam: Fantastic. 1/3 of our job is done. Now to the Little Hill. From West Shore Drive down to the closest point of the trestle on the west side. I will entertain a motion.

Miki: Before we make a motion, can we discuss the types of light.

Sam: Good idea.

Miki: The shoebox at the other end of the bridge. I'm not sure of the distance from this side of the bridge up the hill.

Lee: 176.1 ft.

Miki: Would 1 shoebox be enough for the entrance of the hill and the bridge. Or do we need something else?

Sam: We want the shoebox as close to the bridge as we can get it. There's quite a bit of space from the bridge to the hill. It's among the darkest spots. Especially since there is not light from the corner, no ambient light. Way downhill from the nearest house.

My thought is 1 more Granville at 150' from the shoebox which is as close to the bridge as possible. And not interfere with the structure of the bridge.

There are 4 big concrete abutments at the bridge, and I don't think we can be on the rip rap.

It needs to be back from there.

If everyone has the picture from Councilwoman Meredith. What we're talking about is the shoebox light on either side of the bridge.

Walt: Thank you Randi. There we go.

Greg: A shoebox on the opposite side of the trestle. I would like to go up just where it splits off and install a Grandville light, then do some more looking and investigating on a proper bollard from that point on. There is a property on each side so I'm trying to take in consideration them, the same consideration as we are in other parts.

We need to know a little more info on bollards.

Randi: I have a picture 2 shoebox lights, in between little hill and Lavinia a Grandville.

Sam: The problem is the culvert there and we can't interfere with the drainage. There is a function there.

Randi: We can't?

Sam: We can, but it would require reengineering that drainage.

Greg: That is 10-15' up the hill on the opposite side [north side]

Sam: It could be further down.

Randi: At the top of the hill where the elbow is. Right in that corner, it would light the little hill and Lavinia.

Sam: the guy who lives on the corner of west shore and the path, we would shield that.

Miki: That would have to be shielded.

Sam: Greg said the Granville can be shielded. We can put that in writing. With a box light at the bridge that will provide quite a bit of light. So if you went up with bollards on the north side and then spotted a Granville halfway and then another at the top.

I think there is at least a bid on the buildable lot that is at the end on the west side. The lot is being shortened for a price to provide a space for potable water.

I would like to get to some conclusion on this. If we can't, I would like to consider bollard lighting on little hill, then I think we need to table.

Miki: from the bend to west shore drive. It seems there is probably adequate light from the existing lights.

Lee: No.

Sam: No, I thought there would be adequate light but there is not.

The location of lighting on west shore drive is such that the entrance to this r-to-t is not well lit by the currently installed lights on w shore drive.

The ambient light is fine for a few feet.

Miki: How much light would the Grandville on the corner provide? Where the bend is. Would that provide enough light for the path to the street.

Sam: It's not a proven statement, but I believe that it would. It's only about 100' The problem is the location. We have to be in the easement. Not on their property. And we must shield their property. Greg?

Greg: To answer your question. The Grandville would light the area properly.

Miki: If we put in a box and two Grandvilles. Are we saying the 2 Grandvilles are enough or do we need something in between?

Greg: I was thinking at the hard turn, we could place some bollards. Because that area is pretty dark right there.

Miki: Right there we have a Granville, top of the hill. That should be enough for that stretch. That Granville will provide enough for the little hill.

Greg: If walk up the hill path, you would shield the back property. At the curve there, we should discuss the bollards from that area on.

Yes, to West Shore Drive.

A little bit of light comes from west shore drive.

We need to consider the adjacent properties.

Miki: The reason I'm asking, is if 2 lights are adequate... then we could get Delmarva to install those. And be in conjunction with the Federal Segment. So, no bollards. Will the the Grandvilles be sufficient?

Greg: No.

Sam: In my view, it would be adequate. In the easement, but essentially in the backyard of the

property facing west shore drive. By eyeball, it will light sufficiently to WS drive. You need a minimum of 1 more Granville. And I think on the other side of the path down the hill. I asked Greg if he's comfortable to go under the path with the conduit. He said it wouldn't be a problem. On the diagram on the "ll" of "Hill"

Miki: So, 3 Grandvilles there, that would be enough for the little hill and the box light. Do we really need something if we have a Grandville at the elbow? It may be sufficient to cover up to w. shore drive. I'm trying to avoid the bollard lighting here so we can use Delmarva. I just want to know, do we really need it in addition to the Grandville.

Greg: I appreciate what you said. But I believe the Grandville at the corner of the little hill, it will be insufficient. So that's why I suggested the bollard.

Miki: I don't want any more than we need.

Lee: If you are coming out of w shore drive to the elbow, if you're on a bike at any speed, it's a very quick turn and I'm afraid someone will hit the fence and go over. I agree with what you said, can we also put reflectors on the fence. To make it more visible. I don't want to add any more lights, but there is a danger that we need to address. I agree with you.

Sam: I see no reason not to put reflectors. As long as they are for safety, specifically bicycles. It is a hazard indicator.

Lee: Whatever we can put onto the wood would be fine. 100% I support it.

Sam: The possibility of tabling this is an option or a vote. Either 2 Grandvilles, 1 shoebox, or 3 Grandvilles and 1 shoebox.

Miki: On the first section we are putting up 3 Grandvilles.

Sam: Less light is needed there because it is very open. On the hill there is forested area.

Steve: Grandville at the bottom, at the bend and halfway in between?

Sam: Yes, I think that's the proposal. In my mind, there are 2 on the north side, 1 on the west side. People who buy the currently vacant property.

Miki: There will be woods between them and the path.

Sam: If we know we can shield them?

Miki: We shield them all. Shield the Grandvilles from all the adjacent properties. How much light does a Granville put out? How far out? How far from the light to west shore?

Sam: Walt or Greg would know. It would probably be enough.

Miki: I think the distance, should be enough from the Granville to halfway to the street. Anyone entering will see.

Sam: In other areas of town the Grandvilles are 300' apart. Where they are 100' apart on phase 1 they overlap so much the whole path is equally lighted.

Miki: that 1 Grandvilles will be sufficient.

Sam: That the one on the west side, 70 back from west shore, in the easement, shielded.

Miki: The other Grandvilles, shielded from the back.

Randi: Is the Granville halfway down the hill, will that make too much light going south into the forest? I just can't picture how much "creep" the light has.

Sam: Some will go into the forest.

Miki: How far will the box light project? We may be able to move that first Grandvilles up a bit and then 2 would be sufficient. Then use just 2 lights.

Chief: Could be substitute the shoebox light to angle straight down and cover the path so it won't bleed into the woods. All the light going down instead of out.

Miki: So, your suggesting the shoebox instead of the Granville.

Chief: Shoebox then Granville, then shoebox then Granville.

Miki: I was saying fewer lights.

Randi: Grandville at the L shoebox on the ll in hill.

Miki: a 20' shoebox is going to be covering a lot.

Chief: Projecting down Lavinia. If you want to continue on ... muffled.

Sam: The residents were so dead set against the shoebox light during the surveys from Mr. Turci. I am in favor of two shoeboxes and no more. The rest can be done with Grandvilles or some type of bollard.

I think we can do this with 3 Grandvilles. By my own eyes, I think that we should limit the shoeboxes. Its to be sensitive. If we come back with a bunch of shoeboxes, they'll say what did we need you for. That's an opinion.

Randi: Is the opposition to the shoebox the height, directionality or just the name?

Miki: All of the above.

Randi: Because of the height?

Miki: You're lighting up everyone's yard.

Randi: But isn't that what the Granville does?

Miki: Lower light, not as intense, doesn't cover as much ground. The Grandville lights are not going to interfere as much. The neighbors there are going to see the light.

Sam: There are lots of Grandvilles around town here these lights shine on property, in windows. On my block there are, in an easement in my neighbor's lawn

Miki: Most of the bedrooms are on the back of the house. Lighted streets are ok.
Fair dues to light the front of the house for the traffic. But now you're lighting my backyard and that's a different story. Minimizing the lights back there is the least we can do.

Sam: My thought is 3 Grandvilles on the little hill is sufficient. With the box light at the bridge. I'm not going to make a motion. We can table this to see about bollards as Greg suggested for the little hill.
We've done a great job at segmenting and saving the harder segment until we get more diligence on low lighting. We've been calling them bollards, but it may not end up a bollard.

Miki: Should we refer to them as low-lighting?

Sam: I don't want to leave the diligence up to anyone other than this committee.
If we can't meet the deadline, we ask for more time. We're doing an excellent job.
We're not quite there on the little hill. We have some thoughts about bollards, shoeboxes, and thoughts about Grandvilles. My other thought on Grandvilles is more aesthetic. Aesthetically it will look more like the rest of town. This is the entry. The box lights only for the bridge. It looks like the rest of town to get you in and out of Wagamon's West Shore.

Lee: In summary, what I'm hearing is, as close as possible to the bridge a shoebox. Toward the little hill there will be 3 Grandvilles on the north side, almost

equidistant. The first will be at the crook of the Y. One centered on the hill, and 1 at the elbow at the top. Is that fair?

Sam: Only if we agree.
That could be one proposal.
The middle one would be on the north side.

Muffled.

Sam: the problem with further down the hill is... Sam describes the drawing. With 3 Grandvilles.

Steve: The entrance to the trail, should this have a Granville?
We wouldn't need any bollards.
It would be a nice indicator of the trail entrance.

Randi: I would like to look at the trail again with this idea in my head.

Miki: I would like a measurement from the elbow to the y. and see the distance.

Miki: Motion to table the Little Hill for more information.
Steve: Second

Sam: Any questions or discussion?

Greg: You have the info on the Grandville, is there any other info you need.

Randi: What is the circumference of the light?

Greg: 80-100 feet

Randi: What is the circumference on the box light?

Greg: 120'
I will get the measurement Miki asked for from West shore drive to the elbow, and the elbow to the y.

Miki: Thank you.

Sam: As far as you know there will be no trouble boring under the path?

Greg: WE have an extra easement there as you know. At least 20'. Our easement from West Shore to the top of little hill is 15-20'

Sam: Some other things to consider is a light at the entrance of light.
Possibility of a Granville on the west side 75-100' from w shore.
Two potential location along the hill. On the t' and on the ll.
And the possibility of low-level lighting.

Motion and second, and further discussion?

Randi: Would the reflectors on the fence be part of the lighting plan?

Sam: Yes. If we decide to put it out.

Lee: I'll just do it.

Sam: I don't want to play games with terminology.

Greg: Reflectors are not light.

Muffled.

Sam: Role call vote

7-0

Sam: Entertain what I will do for the next agenda. Put on something in old business. Discussion of points left open during this meeting. Then we'll get to it in old business, recommendations for little hill and Lavinia segments.

It will be a shorter agenda but packed with decisions. We're making excellent progress. And the tenor is still there. We're hanging in there even with deep convictions. We're making compromises.

Miki: More info on low-level lighting

Sam: This guy from holophane comes through. Walt are you familiar with holophane?

Walt: Yes.

Sam: Are they well-regarded?

Walt: Yes. Lot so gov lighting.

Sam: and they've done lighting here in Milton. The sales rep I contacted on a cold-call, knows Greg, her knows Kristy rogers. It's not an unknown entity in Milton.

I will do some more due diligence. Anyone else should feel free to do the same. Take the initiative. Walt sent in the Lewes library lighting. Everyone has seen it. I'm headed there after this meeting to see if they are on.

Walt: They may be shut off because the library is closed.

Lee: Can we call them and ask to turn the lights on? It would take 5 minutes.

Sam: I cannot conduct a meeting in Lewes. So, the ad hoc cannot meet in Lewes to see the lights.

Lee: I'm just saying ask and we all drive by.

Miki: Doesn't have to be a separate topic. Discuss the possibility of shutting the lights off for certain hours.

Sam: I am open to that. Some members are not

Miki: I think we should discuss it.

Sam: It is not off the table.

There are strong feelings about timers.

There is the pressure of starting this committee so late. Our time is restricted.

I know timers exist, so no diligence is needed on timers. We didn't vote on timers and I don't want on those segments that we voted on.

Greg: If we're going to put timers on a path that is open 24/7, there is not point to any lights. I'd be more interested in having them on by sensor and off by sensor.

Miki: We should discuss all those possibilities.

Sam: It's our committee, so I'm the chair, and I say its wide open. The days are not wide open. I'm going to schedule another meeting for the following Wednesday. 12/23. Getting very close to xmas. Christmas eve eve.

Muffled

Miki: When do we have to report to the committee?

Walt: Jan 4.

Miki: If we need another meeting, can we ask for an extension?

Sam: I would say yes. The resolution says by Jan 4th.

Miki: All they can say is no.

Sam: It would probably require an extra meeting of M&TC.

Greg: The committee expires until Jan 31. So, if we didn't reach a decision or if the M&TC come back.

Sam: We've already agreed on a draft. I'll write it up for the next meeting. We can tweak the language at the next meeting. We need to work hard on the two pieces that we have open.

Sam: I'll entertain a motion to adjourn.

Miki: Is the week of the 30th out of the question?

Sam: From the 29th on... My family tradition is to go to Vermont for new year's. If my wife says we are going, I won't have a choice, we are going. Councilwoman Meredith can run the meeting in my absence. I nominate Councilwoman Meredith Vice Chair.

Randi: I accept.

Miki: I don't think 1 week will impact critically, the council.

Sam: If we're not ready...

Chief: We have to schedule ahead; we can just cancel it if we don't need it.

Sam: Let's say I'll try to schedule this place for 11/23. Is that alright with everybody?

Lee: After the 14th meetings are limited by new COVID restrictions.

Sam: I think it is a recommendation. I think the limit is 10.

Greg: We have to check.

Sam: The only way we can do it is video conference.

Randi: I like those.

Sam: I don't like those.

Muffled.

Miki: I got some info from a neighbor; do I need to make those part of the record.

We don't need to read them aloud, but I can make them part of the record.

Miki: I move to make the letters from residents as part of the record of these meetings.

Randi: Second

Sam: Motion and second
7-0

Greg: Just to clarify, these are the questions?

Sam: It was an email I forwarded.

Miki: Do we have any public comments from our listeners?

Greg reading virtual comments:

Bob Byorick: Isn't the maintenance of Delmarva = to \$500/ month or \$6000.

Sam: But that's all the lights in town?
So they won't raise by a large increment.

Roy: Lavinia needs no lights, stop at the bridge, the people of Wagamons voted overwhelmingly for no lights. Why are n't you listening? It's a daytime path not a 24hr path. Dusk to dawn prohibited.

Greg responded the committee is to recommend a lighting plan on the completed trails.

Roy: Consider for 7c. No dusk to dawn use.

Greg: the path is open 24/7.

Roy: Please consider same.

Greg: We are only to discuss the lights and style of lights.

Roy: Same but for a future agenda item. This will avoid invasion of privacy. Values of property will go down.

Bob Byorick: For Lavinia Likes the recommendation of box with bollards. Can there be rails lights across the trestle?

Greg: Per DelDOT, even though the town takes responsibility for the trail, the town takes no responsibility for the trestle bridge, that remains with DelDOT. They say nothing can be attached to the trestle.

Bob: Shoebox and Granville are not wanted on Lavinia Segment.

Greg: That's it.

Sam: I'll bring an answer to each question for ratification, or even just justification. We discussed openly the lights should be on the north side.

Miki: A lot of these questions will be answered when we discuss Lavinia.

Randi: Motion to Adjourn
7-0

Respectfully submitted on 12/22/2020,
CouncilWoman Randi Meredith
Secretary of the Rails-To-Trails Ad hoc Committee

