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P R E S E N T

GOVERNOR MARTIN O'MALLEY, Presiding;

HONORABLE PETER FRANCHOT, Comptroller;

HONORABLE NANCY KOPP, Treasurer;

SHEILA C. MCDONALD, Secretary, Board of
Public Works;

ALVIN C. COLLINS, Secretary, Department
of General Services;

T. ELOISE FOSTER, Secretary, Department
of Budget and Management;

BEVERLEY SWAIM-STALEY, Secretary,
Department of Transportation;

LISA WARD, Land Acquisition and Planning,
Department of Natural Resources;

JOHN PETTY, Assistant Secretary, MBE
Compliance, Governor's Office of Minority
Affairs;

MARY JO CHILDS, Procurement Advisor, Board
of Public Works; and,

MARION BOSCHERT, Recording Secretary, Board
of Public Works.

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P R O C E E D I N G S

GOVERNOR O'MALLEY: Good morning, everyone -

SECRETARY MCDONALD: Good morning, Governor.

GOVERNOR O'MALLEY: -- and welcome to the Board of Public Works. Today's November 16th all day and I want to thank you all for being here. We have some exciting things coming up on our hit parade here. We are going to be hearing from the University of Maryland's team that took first place worldwide in the 2011 Solar Decathlon.

(Applause)

GOVERNOR O'MALLEY: So this is very cool. We're going to hear from them right off the bat. But first, as soon as we ask our Comptroller and Treasurer if they have any opening comments today? Mr. Comptroller? Madam Treasurer?

TREASURER KOPP: I don't. I want to hear and see the Solar Decathlon folk.

COMPTROLLER FRANCHOT: Yes. Me, too. But I'd like to just note for the record a good friend of mine, Mike Dresser, is in the room from the Baltimore Sun. And I just want to remind everyone if you didn't see it in the Sunday Sun there was a tremendous article about the Port of Baltimore.

GOVERNOR O'MALLEY: Yeah, I noticed that article, too.

COMPTROLLER FRANCHOT: And --

GOVERNOR O'MALLEY: Did you notice how it mentioned not, there was never one mention of the O'Malley-Brown administration anywhere in there?

(Laughter)

GOVERNOR O'MALLEY: It was remarkable. Michael, how did you do that? The only public/private partnership, the consistency of leadership interrupted only once, and yet, the jobs happening ten years ahead of Norfolk, and you managed to keep the name O'Malley-Brown out of the entire article. That was phenomenal.

(Laughter)

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GOVERNOR O'MALLEY: I'm sorry.

COMPTROLLER FRANCHOT: Neither was the
Comptroller or the Treasurer mentioned, but --

(Laughter)

COMPTROLLER FRANCHOT: -- I loved it because
we were outcompeting Norfolk which has been a thorn in
my side for years, that somehow that port is able to
grow faster than Maryland. And now it's the reverse.
And I just wanted to thank the Transportation
Secretary, and Mr. White, and the Governor of course,
and everybody else involved. But this is an economic
engine for the State. I mean, we're talking about
billions of dollars of jobs and payroll and economic
activity. So God bless you. It was a great article.

GOVERNOR O'MALLEY: It was really good.

MS. SWAIM-STALEY: Well thank you very much.
And everybody here deserves, has done everything that
they can to support the Port. So thank you all very
much.

TREASURER KOPP: Well and I think the fact is that it is nationally known as one of the few really outstanding thus far successful and appropriate public/private partnerships.

MS. SWAIM-STALEY: Thank you.

COMPTROLLER FRANCHOT: I don't want to get too down in the weeds, but if you want to send the article to Governor McDonnell, feel free.

(Laughter)

MS. SWAIM-STALEY: Actually we have a little competition going on at least between port administrators and secretaries over that, so.

COMPTROLLER FRANCHOT: Excellent. I would -
- Governor?

GOVERNOR O'MALLEY: No, no, go ahead. No, I've already interrupted once --

COMPTROLLER FRANCHOT: I did just want to note for the record that this is National Education Week in the country, obviously here in Maryland.

Obviously it's very appropriate to honor the teachers

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and students of our State who work very hard and finished number one in many, many surveys and national publications for their accomplishments. But also in Education Week today happens to be Education Support Professionals Day. And I thought it was a perfect time to recognize that it takes an entire team to build a really great school system. We have the nation's best teachers but they could not do their job effectively without the support of our custodians and administrative assistants and school bus drivers and nurses and security staff, all of whom work incredibly hard and receive not as much attention for their contribution.

I'm going to be visiting Odenton Elementary tomorrow in Anne Arundel County and it's a perfect example of what I'm talking about as far as the importance of these janitors, custodians, just blue collar workers in these schools. Odenton was built in 1930, 80 years ago, more than 80 years ago. It's undergone five major renovations over the years. It's

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been filled to capacity and expanded. It's remained in the heart of its neighborhood. Despite being over 80 years old it still achieves a superior maintenance rating from the State School Construction Program. I don't know whether Dr. Lever is here, but this is not an easy accomplishment. We're talking 37 engineering criteria. So this is quite an accomplishment for an 80-year-old school. It not only helps the State's bottom line, because we defer the need for incredibly expensive new schools, it also helps the students. Because studies have shown that kids learning in safe, clean, and healthy facilities perform better academically and have more pride in their school. Think about that for a minute. It's an old school. It's well maintained. We save money. And they have a superior academic performance.

Obviously it doesn't happen without the commitment of teachers and administrators. But it also doesn't happen without the staff who are saving taxpayer dollars and providing children with a quality

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learning experience. It doesn't happen without the involvement of a whole network of parents and businesses and other advocates who step up and take care of these wonderful facilities. It's a perfect recipe for a successful school and one that we see duplicated across Maryland.

I'm proud to be part of the Board of Public Works, which makes a huge commitment to school construction investment. And I just want to reach out and say in addition to building new schools it's taking care of the ones we have that I think is so commendable.

So I'd just like to ask everyone to take a moment and thank everyone, I mean everyone, who works in our schools, the best in the nation.

And then finally I was sitting home watching TV on Sunday. Sadly the Ravens and the Redskins, very disappointing. But then all of a sudden, what comes on CBS but 60 Minutes. And all of a sudden for 15 minutes I'm looking at one of my dear friends, Freeman

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Hrabowski, the President of the University of Maryland Baltimore County as he and his school and his program is put in the national spotlight. And he looked terrific. It just reminds me what a great institution that is and what a great educator Freeman Hrabowski is. And it's very uplifting for me to see that.

GOVERNOR O'MALLEY: It was great.

COMPTROLLER FRANCHOT: Thank you, Governor.

GOVERNOR O'MALLEY: Thank you.

TREASURER KOPP: Right after he got the Carnegie Award, slightly after Rick got the Carnegie Award, and it's really --

GOVERNOR O'MALLEY: Yeah and --

COMPTROLLER FRANCHOT: It made Maryland look good, as does the Solar, is it Solar Decathlon group? Or what is it that's here?

GOVERNOR O'MALLEY: What do we call your official name?

COMPTROLLER FRANCHOT: The Solar Decathlon?

GOVERNOR O'MALLEY: The WaterShed Team?

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COMPTROLLER FRANCHOT: You do Maryland proud.

GOVERNOR O'MALLEY: But they, they competed in --

SECRETARY MCDONALD: Right.

GOVERNOR O'MALLEY: So let's do this --

SECRETARY MCDONALD: Governor, we have Dr. Wallace Loh here, speaking as the college President. Maybe he could come up to the stand?

GOVERNOR O'MALLEY: Sure.

SECRETARY MCDONALD: Along with, he has the new Vice President, Rob Specter. You can come up. And Dr. Amy Gardner, if you would come up, too? And we can --

GOVERNOR O'MALLEY: And Mrs., and rather Ms. Winfield, could you do me a favor and get the football helmet from the dias in there? I mean since, you know, I appreciate the Comptroller pointing out that it's National Education Week. But really in Maryland every week is Education Week. And we're so very, very

proud of the great work that we're about to hear from from the WaterShed Team. And also we're glad that Dr. Loh is with us. Doctor?

DR. LOH: Thank you. We are very, very proud of our University of Maryland students, staff, and faculty. And we are very, very grateful to the State and to the Governor for your support.

(Laughter)

DR. LOH: This is not just about pride in uniforms and helmets. It's also pride --

(Laughter)

DR. LOH: -- in our academic achievements. And here is Amy to tell us more about our WaterShed Team.

DR. GARDNER: Thanks. Wow, is that for us?

GOVERNOR O'MALLEY: No, this is for me.

(Laughter)

DR. GARDNER: Well deserved.

GOVERNOR O'MALLEY: Thank you.

DR. GARDNER: So we would like to thank the Governor, the Comptroller, the Board of Public Works for receiving us today and hearing from us a little bit. And we want to thank Dr. Loh, our President, for supporting our efforts in this project.

So if I might be so bold as to say, who does, who knows about the Solar Decathlon? Hands? Okay, so we're doing well. Which way do I point this?

SECRETARY MCDONALD: Where is she pointing to? Where --

DR. GARDNER: Okay --

SECRETARY MCDONALD: There you go.

DR. GARDNER: Okay, so the Solar Decathlon is a Department of Energy project where 20 university teams come and over the course of two years design, build, and operate houses that are totally powered by the sun. And the house that wins is the one that best balances energy efficiency, architecture, efficiency, and affordability.

The University of Maryland has a long and distinguished history in participating in this project. There have been five decathlons in the United States thus far, we've participating in four of them. In 2002 we came in fourth. In 2005 we came in eighth overall and won people's choice. In 2007 we came in second overall, placed first in over half the contests, and it was up until the very last day that we were in first place. And so we come back in 2011, and we did it.

GOVERNOR O'MALLEY: Yay.

DR. GARDNER: Yeah.

(Applause)

DR. GARDNER: So why do we do this? Why do we do the Solar Decathlon? The Solar Decathlon is an unparalleled opportunity to educate present and future leaders in sustainable design. It's an opportunity to reach across campus boundaries for an interdisciplinary effort. This kind of effort is the way forward to a more sustainable future. We cannot

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operate the way we've been operating up till the last, you know, the end of the last century. This is absolutely an unparalleled opportunity to teach people how to do things differently.

Over 200 students from 11 units in the University participated in this project, some of whom are here today. So we chose as our inspiration and our guide and our mentor the Chesapeake Bay Watershed. The stewardship of the Chesapeake Bay Watershed helped this team integrate architecture, engineering, and living systems in order to make the house we called WaterShed. But it's not enough to design. It's not enough to imagine and invent. We also had to build this thing. And in order to make this project real it takes a village. It takes a village to build this house. This team worked together not only within the University but reaching out to our professional and trade mentors to realize the project.

And it's not enough to build the house. It's not enough to get the house to the Decathlon. We

have to educate the public. We have to mount a vigorous and meaningful education campaign that helps people understand how they can change their lives. Over 20,000 people walked through our house. And we know that because we had a counter. Every team gets a counter and we can say with assurance that 20,000 people walked through our house over the course of ten days.

And so this is our house. This is WaterShed. And this is us.

(Applause)

DR. GARDNER: I'm happy to answer any questions, or --

GOVERNOR O'MALLEY: Can I ask you what, could you talk a little bit about the stormwater management aspects of the house?

DR. GARDNER: Can I invite some folks up to talk about that?

GOVERNOR O'MALLEY: Absolutely. And you all should --

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DR. GARDNER: You should hear from our team.

GOVERNOR O'MALLEY: And you should all
prepare to come up here before you --

COMPTROLLER FRANCHOT: You should bring your
team up.

GOVERNOR O'MALLEY: We'll make sure we do a
picture up here at the end, too.

TREASURER KOPP: Where is the house now?

GOVERNOR O'MALLEY: Where is the house now,
the Treasurer asks?

DR. GARDNER: The Treasurer asked where is
the house now. The house is at the University of
Maryland on its construction site. And we are making
preparations for it to go to a final owner. And when
that moment is ready we will let you know who that
final owner is.

TREASURER KOPP: But it will be used?

DR. GARDNER: It will be used.

GOVERNOR O'MALLEY: So what team worked on
the water aspects of this?

MR. TJADEN: So that would be me. My name is Scott Tjaden. I was the living systems team leader. I'm an environmental science technology student. So my purpose was kind of integrating the environment and the design. So we, stormwater management, we had a green roof to help retain that stormwater. We also had a constructed wetland to filter all the gray water coming out of the house. So this wetland treats any water coming from the shower, the bathroom sink, the dishwasher, and the washing machine. So that's eliminating the quantity of water going to the --

TREASURER KOPP: And what happens with the gray water?

MR. TJADEN: It's treated through a natural filtration process. So it's a contained system of a natural wetland that we're constructing on the site.

TREASURER KOPP: Okay. So it's not recycled

--

MR. TJADEN: Right. So then we can reuse that water for any irrigation around the site. So we're eliminating any need of potable water for that process.

GOVERNOR O'MALLEY: So it would go where, then? It would go to the, it would go into sort of the lawn around the --

MR. TJADEN: Well if, once this is in the actual location we can put in another storage tank. And once that water goes through the system it can then be stored in there until you need to use it. So we're pretty much trying to capture as much rainwater and also the gray water that falls on the house and flows through the house.

GOVERNOR O'MALLEY: Uh-huh.

MR. TJADEN: So we're, and also eliminating any pollutants that are going off into the surrounding --

GOVERNOR O'MALLEY: I mean, does it go into a receiving pond? Or does it just simply get sprayed on the grasses and the other stuff that --

MR. TJADEN: Right. Well the way we did it we had a hand pump. And as it came to the end of the system we put it in a watering can and then take it to the vegetables or the plants around the house that need it, so. Just direct use of that water.

GOVERNOR O'MALLEY: So it doesn't go into --

TREASURER KOPP: But it could?

GOVERNOR O'MALLEY: -- some sort of a pond?
No?

MR. TJADEN: It could.

TREASURER KOPP: When it's on its final site.

MR. TJADEN: Okay. So the water, the water goes into the system. And then we have a certain retention time within that system that's required for the concentrations that are in the water, like soaps and dirt. So as it flows through the system it

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becomes cleaner. And then it's kind of hard, because we had to kind of move the house, we couldn't really lead to the ground. So once the ground would come to the end you can either use it like we did or you can have it naturally flow into the environment, to like a stream or something like that.

GOVERNOR O'MALLEY: Mm-hmm.

TREASURER KOPP: Could you recycle it for --

MR. TJADEN: There's some regulations right now that are kind of in the way of taking stormwater back inside.

TREASURER KOPP: Okay. So this helps you find what arbitrary sort of constraints there are that can be addressed now?

(Laughter)

MR. TJADEN: Yes. And we're also educating the public on how much water actually falls onto your house and actually how much you can reuse, so.

GOVERNOR O'MALLEY: How much water does fall onto our house?

MR. TJADEN: We had a 300-gallon cistern, it collected all the rainwater off of one roof. And that filled up in like an hour and a half, during the first day. It rained a lot during that competition, so.

GOVERNOR O'MALLEY: Uh-huh.

MR. TJADEN: So a lot of water. And our roof, and the square feet of one roof is like 350 square feet.

DR. GARDNER: Right. So you may know that Americans, the average American might use a couple of hundred gallons of water a day. I mean, some places in the world people live on about three gallons of water a day. And our goal was to educate people not only on ways in which to deal with rainwater and gray water, but also to help people understand how much water we use.

GOVERNOR O'MALLEY: Right.

DR. GARDNER: And that, you know, on the East Coast, in this area, we might get 40 inches of rain per year and no sweat. But there are other parts

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of the country and the world obviously that don't have this kind of great richness of water. And so our education campaign was about helping people understand not only what do we do with water, but how much water we do use.

GOVERNOR O'MALLEY: Right.

TREASURER KOPP: Well, and also what water has to be potable and what doesn't really. I mean, a lot of people just, yeah.

GOVERNOR O'MALLEY: How about the green roof component? Who worked on the green roof aspect of this? Was that part of the water system? Or was that part --

MR. TJADEN: That was part of the water system and also the design. Do you want to talk about that a little bit?

MS. DAVIES: Yeah, so green roof was really important to us --

SECRETARY MCDONALD: Could you introduce yourself, please?

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MS. DAVIES: Sure. I'm Leah Davies. I'm a graduate architecture student. But I was sort of the living systems liaison between the architecture and these components that he's talking about. So we have the two split roof forms and one had our solar panels on it and one had a green roof. So there was sort of this juxtaposition between technology and nature because we wanted to harvest the sun's energy not just for powering the house but also through plant media. So like he said the green roof helped slow down the process of the rain coming off the roof, and sort of naturally filter it before it entered our cistern. It provided a natural habitat --

GOVERNOR O'MALLEY: And why is that important? Because there are contaminants, atmospheric, that fall with the rain to begin with anyway?

MS. DAVIES: Yeah, there can be.

MR. TJADEN: And it's also helping to control that flash effect. So it contingencies upon

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like all the water directly going into the system or into the surrounding waterways. So this helps to slow that flow --

GOVERNOR O'MALLEY: Right.

MR. TJADEN: -- and eliminates any erosion that may happen --

GOVERNOR O'MALLEY: And the sediment?

MR. TJADEN: Yes.

GOVERNOR O'MALLEY: And the carrying the sediment as well as the other deposits --

MR. TJADEN: Yeah.

GOVERNOR O'MALLEY: -- over time.

MS. DAVIES: And the green roof is pretty much completely self-sustaining. We used sedums, which once they mature don't require any additional irrigation. So they live completely year round on their own.

GOVERNOR O'MALLEY: Cool.

TREASURER KOPP: Do you have any idea, this was September, October, do you have any idea in the

summer what the thermal effect of having the green roof might be?

MR. TJADEN: So again it's using that sun's energy through a chemical process within the plant instead of being absorbed into the actual roof of the house --

TREASURER KOPP: Right.

MR. TJADEN: -- like a traditional house.

TREASURER KOPP: Right.

MR. TJADEN: So this is helping to add a thermal mass to the roof.

MS. DAVIES: It is an extra layer of insulation to some extent, but we didn't get a chance to test that. And we used a relatively thin, lightweight, modular green roof.

TREASURER KOPP: Oh.

MS. DAVIES: The reason for using modular was sort of once again that educational component, that this was a do it yourself system that people could implement in their own homes.

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TREASURER KOPP: So are there places where you could get modulars of green roof now?

MS. DAVIES: Yeah, it's very simple. We used a company called LiveRoof. And they are just delivered in one by two-foot trays. They weigh about 17 to 20 pounds.

TREASURER KOPP: Well that's very different from --

MS. DAVIES: We also, having to take this house apart and move it, the modular green roof allowed us to put it on when we were building it, take it off to transport, put it back on for the competition, and so on.

GOVERNOR O'MALLEY: That's great.

MS. DAVIES: So it was a fun process.

GOVERNOR O'MALLEY: And so who worked on the solar aspects of this, which I guess had to be incorporated into the green roof?

MR. DAILY: We actually separated the green --

GOVERNOR O'MALLEY: And what is your name?

MR. DAILY: I'm David Daily. I'm the engineering and project manager. And so the green roof was on the south module and the PV roof, or the solar panels, were on the north so they are facing south, collecting the sun. It's kind of a nice mirror image of, you know, nature versus technology. But they are both used together to, you know, you harness the sun's energy.

GOVERNOR O'MALLEY: Mm-hmm. Very cool. And what sort of solar panels did you use?

MR. DAILY: We used Sanyos. They are 220 watts each.

GOVERNOR O'MALLEY: Mm-hmm.

MR. DAILY: And we had a Enphase microinverter system underneath. So underneath each panel there's a microinverter which converts it, the electricity, into usable form for the grid. This saves a lot of insulation times. It's extremely easy and it saves on material costs as well. So, you know,

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finding the latest and greatest technologies and applying them to our house was something that we wanted to do. And again, it's modular, easy to install, a homeowner can go and do this. Although you should have an electrician help.

(Laughter)

MR. DAILY: I wouldn't recommend it by yourself.

GOVERNOR O'MALLEY: Did the Green Building Council, did those folks come down and take a look at this?

DR. GARDNER: Well they probably were at the

--

GOVERNOR O'MALLEY: Dr. Pike?

MS. DAVIES: I met with them, yeah.

GOVERNOR O'MALLEY: Chris Pike? Yes?
Remember that name at all?

MS. DAVIES: I remember that name.

GOVERNOR O'MALLEY: This would be right up their alley. And who, how about the materials that

you used in the wall of the house? What were they?
Was it recycled bamboo stuff? Or what did you use for
the wall board and the like?

MS. DAVIES: Well the exterior siding that
you see is a thermally treated poplar. So instead of
--

GOVERNOR O'MALLEY: Fast growing?

MS. DAVIES: Yeah, fast growing. And it's
thermally treated so it's essentially cooked instead
of using chemicals and toxins, like pressure treated.
But it bears the same qualities as pressure treated
lumber. So it's rot resistant, and bug repellent, and
things like that.

GOVERNOR O'MALLEY: And it's cooked?

MS. DAVIES: It's cooked, yes. And it gives
it that very beautiful color. But the wall envelope
itself was 13 inches thick, which is very thick. And
we used a unique structural framing system that
allowed for less thermal bridging in the insulation.

So we had an R value of about R44, which is, if anyone

doesn't know R value it basically measures that thermal sort of containment of your home. And a typical house has an R value of about R21. So there were days in the competition, we were required to have lighting and maintain core temperatures. And at times we could have our heating and cooling system completely turned off and we maintained that temperature in the house completely by the envelope itself.

GOVERNOR O'MALLEY: Hm.

MS. DAVIES: So we were using way less power.

GOVERNOR O'MALLEY: That's great. And the, and was part of the deal here that it had to be all self-sufficient? Like off the grid?

DR. GARDNER: For maximum points.

GOVERNOR O'MALLEY: For maximum points it had to be totally off the grid. So with WaterShed --

MS. DAVIES: We were one of seven or eight teams that finished within that positive result.

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GOVERNOR O'MALLEY: So you actually create more electricity than, this house creates more electricity as you smart people from the University of Maryland designed it, this house actually creates more electricity than it uses?

MS. DAVIES: Yes.

MR. TJADEN: Absolutely.

MS. DAVIES: And that was on a very cloudy, rainy week. We had very little sun.

MR. DAILY: We had about two days of actual good sunlight.

MS. DAVIES: And we still managed to produce more energy.

GOVERNOR O'MALLEY: That's awesome. That's great. And so how many of them in the competition did that you said?

MS. DAVIES: Seven.

GOVERNOR O'MALLEY: Seven? Out of how many?

MS. DAVIES: Nineteen.

GOVERNOR O'MALLEY: Seven out of nineteen produced more energy than they used. Wow. Al, hire them.

(Laughter)

GOVERNOR O'MALLEY: Secretary Collins runs all of our State buildings.

MR. COLLINS: I'll take you.

GOVERNOR O'MALLEY: So could you design something for DHMH, perhaps, that does the same thing?

MS. DAVIES: The majority of us are graduating in December.

(Laughter)

(Applause)

GOVERNOR O'MALLEY: And how about the appliances and all of that stuff? Was that all kind of state of the art stuff?

MS. DAVIES: A lot of it was, yeah.

MR. TJADEN: Yeah. I mean they were all, you know, with the fixtures, low flow appliances, or

low flow fixtures for the water. The appliances are all, you know, energy star, low energy.

MS. DAVIES: We had a few really interesting appliances. Like our induction cooktop didn't generate any, didn't release any heat into the space. You know how like gas stoves and things will make your kitchen really warm? Well you could actually touch the entire surface around the stove and it wouldn't get hot. It concentrated all of the heat into the pot.

GOVERNOR O'MALLEY: That's cool.

MS. DAVIES: And like he said, our showerhead, for instance, was low flow --

TREASURER KOPP: That's more than just cool. Because, no seriously, with an aging population, when a lot of other people, it's really important to not have that very, very hot surface just sitting there untended and unnoticed. I mean this is, this concept --

MS. DAVIES: The appliances were --
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TREASURER KOPP: -- is one that is really applicable --

MS. DAVIES: -- an area that we could really relate to the public that was coming through the house. Because it was our things that they can very easily implement in their own homes.

GOVERNOR O'MALLEY: And you had the, of course you would have had the smart grid sort of thing so people could see how much electricity they were selling back to BGE, right?

MR. TJADEN: Yep. Yep. Pepco had smart meters installed on all the houses.

GOVERNOR O'MALLEY: Pepco, excuse me.

MR. TJADEN: Yeah. We were in D.C.

(Laughter)

GOVERNOR O'MALLEY: Anybody, who else has something cool they want to share with us that hasn't come up in the course of the questioning from the State generalists?

MR. TJADEN: Okay. So the liquid desiccant waterfall, there's actually a picture of it, the previous one.

GOVERNOR O'MALLEY: Say that again? Liquid --

MR. TJADEN: It's a liquid desiccant waterfall.

GOVERNOR O'MALLEY: Say that again?

MR. TJADEN: Liquid.

GOVERNOR O'MALLEY: Liquid.

MR. TJADEN: Desiccant.

GOVERNOR O'MALLEY: Desiccant.

MR. TJADEN: Waterfall.

GOVERNOR O'MALLEY: Liquid desiccant waterfall.

MR. TJADEN: So this is something that in 2007 the University of Maryland Solar Decathlon team actually designed and developed. And what it does, it's a giant dehumidifier but it uses a liquid to dehumidify. And as you know, in Maryland, you know,

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it's extremely hot and muggy during the summers. So if you actually remove the humidity within the air it makes it a lot easier for your air conditioning system to cool the air, therefore using less electricity. But again, it's using a liquid which is a novel way of doing it. And this is patent pending. This is something --

GOVERNOR O'MALLEY: Great.

MR. TJADEN: -- you know, innovation that comes from the University of Maryland, it comes from the Solar Decathlon. This year we took it --

GOVERNOR O'MALLEY: Wallace, they are on script. Good job.

(Laughter)

MR. TJADEN: We took it and we're making it, or we made improvements to it for the 2011. Greatly improved its efficiency. And now we actually have, you know, a lot more data from the competition. You know you can get, every 15 minutes they took data points. And so we were sitting there watching them,

you turn it on, and you can see the humidity drop.
And so it's an excellent, and that's the packing
media. That's a close up shot of it. So.

GOVERNOR O'MALLEY: And so what's the,
that's the close up shot, but what does it look like?
Is, it's on the back here?

MS. DAVIES: It took a very different form
in the 2007 house. So it was really interesting --

GOVERNOR O'MALLEY: So it's just that little
thing there? It almost looks like a, I don't know, it
almost looks like a window sized type of --

MR. TJADEN: Yep. Yep.

GOVERNOR O'MALLEY: -- stand alone thing,
and it's a waterfall.

MR. TJADEN: The window is what we wanted to
show you. There's a whole lot more in there. It's
probably about eight feet tall by four feet wide, and
there's two of them in each module. And then there's
a separate component outside called the regenerator,
which it kind of dehumidifies the liquid after it

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soaks up all the water. So and when you do that, it's a self, it's a closed loop, self-contained system that regenerates.

GOVERNOR O'MALLEY: Mm-hmm.

MR. TJADEN: So you really don't need to replace any liquids. You don't really need to, you know, add something to it. You just let it go. And as long as there's sun then the system keeps operating.

GOVERNOR O'MALLEY: And here is the cynical, old fogey question. How much did it cost?

DR. GARDNER: Which part?

GOVERNOR O'MALLEY: The whole, I mean, like the whole building. I mean, I imagine these are new technologies so they are all a little more, they are either, they are probably a lot more expensive, is what I'm thinking, to build it. But I could be wrong.

DR. GARDNER: There's a, one of the new contests for the Decathlon is called the affordability contest --

GOVERNOR O'MALLEY: If you could go near the mike? Because there's people watching on this --

DR. GARDNER: I'm sorry. Sorry. There's a, this year there was a new contest for the Decathlon called the affordability contest. And each team's cost was determined by an independent cost estimating team. And our team's, our project, it's not just the house, it's more than, you know, it's the whole project, our project was evaluated at \$336,000. And it's about 1,000 gross square feet with probably another 1,000 square feet of deck and associated exterior elements.

GOVERNOR O'MALLEY: Mm-hmm. And what's the, what's the ROGE? What's the return on green investment?

DR. GARDNER: Gosh. This house, we would need, well we would need the further years of testing to understand that.

GOVERNOR O'MALLEY: And --

TREASURER KOPP: The lifetime, the life cycle.

GOVERNOR O'MALLEY: Yeah, that's sort of the life cycle thing.

DR. GARDNER: Yeah. Yeah.

GOVERNOR O'MALLEY: In other words, you pay three hundred, and how large of a home was it?

DR. GARDNER: Nine hundred and twenty-five gross square feet.

GOVERNOR O'MALLEY: Which means, what? A two bedroom? One bedroom?

DR. GARDNER: It's a one bedroom with office.

GOVERNOR O'MALLEY: One bedroom with office?

DR. GARDNER: Yeah.

GOVERNOR O'MALLEY: Okay. So, in the house that I grew up, that would be enough for mom and dad and six kids.

(Laughter)

TREASURER KOPP: Can you then --

GOVERNOR O'MALLEY: Thank you.

TREASURER KOPP: -- going back to the University apply, and your departments, apply the learning from this to other situations? Like State buildings, public buildings, I mean, not just a small house?

DR. GARDNER: Absolutely. In short, yes.

(Laughter)

DR. GARDNER: And that's what we aim to do.

TREASURER KOPP: So, yeah. Do you have some sort of system in place to do that, to capture the information, leverage it, and --

DR. GARDNER: Yeah. The way we do the project is it's, it's implemented through coursework. And the coursework continues, can continue and does continue to share the lessons learned. We, each team builds on the previous team's effort. So it's institutional in that way.

TREASURER KOPP: Yeah. This timeline is --

DR. GARDNER: Pretty cool.

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TREASURER KOPP: -- very nice, yeah, it's very good. They look so good, too.

GOVERNOR O'MALLEY: What does the timeline say?

TREASURER KOPP: Well just the, over the years the different, I was just looking.

GOVERNOR O'MALLEY: Oh, and their ascent? Their ascent to preeminence?

TREASURER KOPP: Yes. No, but also the pictures of the different houses. Starting from this one that you would recognize from --

GOVERNOR O'MALLEY: That's very cool.

TREASURER KOPP: Yeah. So this one, to this one, and then 2012 we're still waiting, right?

GOVERNOR O'MALLEY: Is there another Decathlon in 2012?

DR. GARDNER: There is going to one in 2013. It would be virtually impossible, it would have been virtually impossible for us to participate. The next one after that is 2015. The 2013 submission process

has come and gone. They do it during the Decathlon so other universities and other states get a chance to participate.

GOVERNOR O'MALLEY: I see. Well, you've got to let them in every now and again --

(Laughter)

DR. GARDNER: Yeah, let someone else have a chance.

TREASURER KOPP: Are there other venues than the decathlon to use to build for, and then demonstrate?

DR. GARDNER: Well there are, there is now a Solar Decathlon Europe, a Solar Decathlon China. But other venues besides the Department of Energy competitions? There are. They are generally private. Not many of them are public like this. But our aim is to find those opportunities and continue to do projects like this.

TREASURER KOPP: It's like the Intel, a grown up applicable version of the Intel --

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GOVERNOR O'MALLEY: Are you talking to any, are there any home builders or people that put together modular homes that have contacted you about how you put together component parts for something like this? I mean, I would think there is a lot of people that would --

DR. GARDNER: Yes.

GOVERNOR O'MALLEY: Yeah, good. Well I'm not going to ask you to talk about it. Good. So another spin off. Well that's terrific.

COMPTROLLER FRANCHOT: I'd love --

TREASURER KOPP: Is this the Secretary?

DR. GARDNER: Of Energy? Yes. Yes. He walked through the houses. He got a great tour from our team.

GOVERNOR O'MALLEY: By golly, it is him. That's great. Well let's do this. The, maybe you all, I want to get them, how many people working on it altogether? I mean, how many kids? Excuse me. How

many students of the University of Maryland? How many young men and women?

DR. GARDNER: We began with about 200. The core team in the end, towards, you know, for the real effort was about 30 or so kids, I mean students. Graduate and undergraduate across many units.

GOVERNOR O'MALLEY: That's great. Did you have something you wanted to say, Peter?

COMPTROLLER FRANCHOT: I just wanted to ask your name and title, because the kids are obviously very impressive. But I think you've led a very interesting, successful effort. And I want to give it to Secretary Collins and --

DR. GARDNER: Well --

COMPTROLLER FRANCHOT: -- stay in touch with you. Because obviously the Governor and the Treasurer have indicated a lot of interest.

DR. GARDNER: My name is Amy Gardner. I was what's called the Principal Investigator for the project. I'm an architecture faculty member. But I

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was only one of eight faculty advisors who joined together as a team to steward this effort. Others who are here include Brian Grieb, Mike Binder, and I think that might be it of the eight.

TREASURER KOPP: And what departments were involved?

DR. GARDNER: I'm architecture. Brian is architecture. Mike Binder is architecture. But that doesn't mean that it was all architecture. There was agriculture and natural resources, engineering, and that might be it.

GOVERNOR O'MALLEY: Can you send me after sort of a break, each, you must have had a break down of the costs and what pieces of this were the most expensive and what was the most expensive component part of this? Was it the solar energy system?

DR. GARDNER: Our sanity.

(Laughter)

DR. GARDNER: The therapy. I would say the PV system. Yeah. Taken as a system, yeah, it depends

on what you, if you mean, it depends on what we're talking about. If we're talking about equipment the PV system was the, you know, the most expensive thing you could just take off.

GOVERNOR O'MALLEY: Mm-hmm.

DR. GARDNER: As a system the building envelope might add up, surely adds up to more than that.

GOVERNOR O'MALLEY: Got you. Okay. Well this was great. Treasurer Kopp, it makes me wish that we could be around for the next 50 to 70 years when you all figure how to make humanity a renewing force on this planet. This is really very, very cool. I am so proud of you guys. And we had a meeting of the National Governors Association during the same time that you were constructing WaterShed down there on the Mall and the Governor of Colorado came back to one of our meetings, I don't know how he got to slip away but my staff wouldn't let me slip away. But he came back and he said, "University of Maryland won the

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Decathlon! They won the Solar Decathlon!" So Governor Hickenlooper had been down there. I'm very, very proud of you guys. Our proximity to the water and to the Bay, and what that, what that awareness brings to us, and what you've been able to do with the combination of your smarts and circumstance and God's grace to create something like this and show that it can be done is really a phenomenal accomplishment. And we're all very, very proud of you guys. You want to come up here for a picture?

TREASURER KOPP: Can I say, you hadn't mentioned exactly, but this is also a very handsome building. I mean, it really looks good.

DR. GARDNER: We won first in architecture.

GOVERNOR O'MALLEY: Yeah, it doesn't, being a renewing force on the planet can also be beautiful, right? Come on up around here, follow Ms. McDonald so you don't impale yourself on the wires and things. And then Rick maybe you want to take them in the -- why don't we move our chairs here? Come on up. We

can all squeeze in. There's only 30 of us, right?
Come on. Good job. Well done. Well done. Way to
go, man. Good. Okay, just kind of squeeze together,
everybody. If you stand kind of shoulder over
shoulder, and then squeeze together, it will feel
unnatural but it will look good.

(Laughter)

GOVERNOR O'MALLEY: Everybody squeeze
together. Come on, squeeze. Where's Jay Baker? Jay
is not here?

MS. PAGONIS: Nope.

GOVERNOR O'MALLEY: We usually have a fish
eye lens here.

MS. PAGONIS: Hey, we've got everybody in
it, though.

GOVERNOR O'MALLEY: Everybody is in it?

MS. PAGONIS: Yep. Ready?

GOVERNOR O'MALLEY: This is Zoe.

MS. PAGONIS: One, two, three. Okay, just a
couple more.

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GOVERNOR O'MALLEY: I wonder if I should be holding up -- no, that's okay. We've got the helmet.

(Laughter)

MS. PAGONIS: Just a couple more.

GOVERNOR O'MALLEY: Everybody's real quiet. It's like being on an elevator.

(Laughter)

GOVERNOR O'MALLEY: All right.

MS. PAGONIS: That's great.

GOVERNOR O'MALLEY: Okay. Why don't we do this? Why don't you all go with Rick? Since you're here you might as well see the Governor's Office. And Wallace, if you want to go in there, and you all get a picture in front of the Wye Oak desk you're welcome to do that while you're here. Please take all of the green tea and coffee that you like.

(Laughter)

GOVERNOR O'MALLEY: And Ms. Winfield, do you want to take the helmet and mascot in there?

(Applause)

GOVERNOR O'MALLEY: How are you doing, Dean?
Thanks for being here. Thanks for what you've done.
And you guys are welcome to all the free coffee and
tea you can drink, too. How are you doing? You're
the builder? Well, you've done good.

Well, that was fun. That was inspiring,
huh?

TREASURER KOPP: That was wonderful. That
was --

GOVERNOR O'MALLEY: That gives you hope. I
can't wait to see that new building design DGS is
going to be rolling out.

MR. COLLINS: You got it, Governor.

(Laughter)

GOVERNOR O'MALLEY: Okay. Secretary's
Agenda. We have one matter that's being deferred?

SECRETARY MCDONALD: Yes. Thank you,
Governor. We are, we have 14 items on the Agenda this
morning, three reports of emergency procurements. The
Stadium Authority is withdrawing Item 13 and intends

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to return to the next meeting, December 7th. The Treasurer has a hand carried item, Item 14, which is to extend the closing date for financing that was on the Agenda last time. And we are ready to answer any questions on the 13 items or three emergency reports.

GOVERNOR O'MALLEY: Mr. Comptroller?

COMPTROLLER FRANCHOT: Item 11?

SECRETARY MCDONALD: Item 11, I believe Dr. Lever is here. This is the Northeast Region allocation of the alcohol beverages supplementary appropriation. The Northeast Region comprises Cecil County and Harford County. We did contact those offices to, but we don't have anybody from those offices here. But Dr. Lever is here and he can probably answer your questions about the projects they have in front of them.

DR. LEVER: Good morning.

COMPTROLLER FRANCHOT: Yes.

DR. LEVER: I'm glad to answer any questions if you have any.

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COMPTROLLER FRANCHOT: Thank you, Dr. Lever. And you obviously heard my comments about maintenance, which I attribute greatly to your leadership.

DR. LEVER: Thank you.

COMPTROLLER FRANCHOT: And today this \$1.25 million in one-time supplemental school construction dollars, I take it \$833,000 is going to Harford County and \$416,000 to Cecil? Which is a two-thirds, one-third split. I'd like to commend Harford and Cecil. I understand they are not here. But maybe they are listening in on our internet production. But I think that's a sensible and collaborative approach that they were able to work out. And the dollars, apparently, went to a region. And sometimes when that happens you have a lot of debate as to how the dollars actually get allocated. And I wanted to say publicly that obviously cooler heads prevailed up there and they came up with what seems to be an understandable split. How exactly is that? Did they memorialize that in an MOU? Or how did that work?

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DR. LEVER: They did have an MOU, and I've read that. Apparently they simply sat together, worked it out based on the two-thirds, one-third split. And that has to do roughly with the size of the jurisdiction but they didn't use a formula as far as I know. They simply took a very simple and very straightforward approach to it.

COMPTROLLER FRANCHOT: Well I'd like --

TREASURER KOPP: How remarkable and, no, I just agree with the Comptroller.

COMPTROLLER FRANCHOT: Yeah.

DR. LEVER: Refreshing.

TREASURER KOPP: People actually sat down, and reasoned things out, and --

COMPTROLLER FRANCHOT: And as you know, what happens when budgets are tight and people grab for whatever dollars they can get. So kudos to those two jurisdictions for that process. I'd also like to compliment both jurisdictions for having reasonable project lists that are compatible, it seems to me,

with the intent of the allocations. Harford apparently intends to use its share to upgrade the HVAC systems of two existing schools, one of which was built in 1949. Cecil is going to use its share to take care of some badly deteriorated items in their older school facilities. And I guess these systems are not here, but my review of their projects is that they made the kinds of choices that at least would fall within your parameters, I take it, Dr. Lever?

DR. LEVER: We did find all of these projects would have been eligible in our usual funding programs, the CIP, the Aging School Program, or the Qualified Zone Academy Bond Program.

TREASURER KOPP: Had the money been available.

DR. LEVER: Yes. And in fact the Harford County projects, these two cooling plant systems, were going to be capital requests. But they had the opportunity to take care of them using this funding

and so they took them off the capital list. That allows them to move other projects up in priority.

COMPTROLLER FRANCHOT: And I take it their Boards of Education were consulted for these?

DR. LEVER: Yes.

COMPTROLLER FRANCHOT: And then I'd like to just take a moment to compliment both systems on their commitment to saving taxpayer dollars through better school maintenance. And I am going to quote from your survey, Dr. Lever, where you awarded an overall superior rating to the Cecil County Public Schools, this is the entire county. And I quote from your report, "The maintenance, care, and upkeep of schools in Cecil County is exceptional. The survey results are a testament to this school system's commitment to maintaining their investment and providing pleasant, well kept environments for student learning." And for everyone who knows you, Dr. Lever, you are known as a tough grader.

DR. LEVER: Well, thank you.

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COMPTROLLER FRANCHOT: So this is praise from the master. And the fact that you are willing to put words like that on paper is something Cecil County should really take pride in.

DR. LEVER: They have a consistent record of very, very high maintenance. And it really starts with the leadership, going back several superintendents. They simply established that as a goal, and they set up internal processes to reward good maintenance. They actually set up a very healthy competition between schools on the maintenance issue. And people get acknowledged and rewarded internally, aside from our process. And I think all of that contributes very significantly to the level of maintenance that you see. In older schools, too, as you were mentioning before. They have some of the older schools and yet they maintain them at a very, very high quality.

COMPTROLLER FRANCHOT: Thank you.

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TREASURER KOPP: They have inculcated a culture --

DR. LEVER: Yes.

TREASURER KOPP: -- a culture of keeping and protecting, safeguarding that I know the Comptroller's predecessor, who was very, very keen on maintenance, would be very, very pleased with them. It seemed as though every year Cecil County was up here --

DR. LEVER: Very consistently.

TREASURER KOPP: -- for a very good reason.

DR. LEVER: Mm-hmm.

COMPTROLLER FRANCHOT: Is that Governor Schaefer? Or Comptroller Goldstein?

TREASURER KOPP: No, I'm thinking of Governor Schaefer, actually.

COMPTROLLER FRANCHOT: Good.

TREASURER KOPP: I'm sure that his predecessor would have said the same thing, too --

COMPTROLLER FRANCHOT: Well thank you for that. And please, if you have an ability to send my

comments back to the jurisdictions, I'm sure they would have been here if they knew I was going to say something nice about them.

(Laughter)

DR. LEVER: I will be reporting to them, sir.

COMPTROLLER FRANCHOT: But congratulations.

GOVERNOR O'MALLEY: Okay. Are there any other questions on any of the other Agenda items?

TREASURER KOPP: I would just like to point something out, just because we've had such great representation of what could beneficially happen to the environment with the Solar Decathlon. The Appendix 3 and the PARS report. It's the Highway Administration, slope repairs, because of Tropical Storm Lee undermining our infrastructure. On the other hand, whether you believe in global climate change or not these things are happening and I think it's a very good example of what potentially can happen if we don't plan well and even if we do plan

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well we've still got the aging infrastructure. But with sea level rise, with increasing volatility in the climate, I think we're going to be seeing a lot more of these sorts of items. Don't you agree?

MS. SWAIM-STALEY: We are. And it's a national issue. And we're actually trying to start some special effort here in Maryland because it's very clear that it's not the future things that are going to happen but what's happening right now --

TREASURER KOPP: Mm-hmm.

MS. SWAIM-STALEY: -- is having unanticipated impacts on our infrastructure.

GOVERNOR O'MALLEY: What, and this was Hurricane, what was it, flooding that --

MS. SWAIM-STALEY: Well this was, we had the storms --

GOVERNOR O'MALLEY: Right.

MS. SWAIM-STALEY: -- first Irene, and then Lee within three weeks. And so we had some significant issues in, particularly in Southern

Maryland. First the flooding issue and then the significant rain. So we had some pipe failures, and slope failures take place. Because that's, I think it was 20 inches in a very short amount of time.

TREASURER KOPP: Yeah. I mean this is just one example, and then you add onto it the impact of the salinity, the saline water, refusing into what was --

MS. SWAIM-STALEY: We're going to need drainage issues, and pipe issues that we've never experienced before because we've never had these, frankly, we've never had these volumes of rain so concentrated.

TREASURER KOPP: It may not be as dramatic as the big Hurricane Katrina and that sort of thing. But it's clearly eating away at our infrastructure.

MS. SWAIM-STALEY: And Lee was actually harder on parts of the State than Irene was with regard to that.

GOVERNOR O'MALLEY: Hm.

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TREASURER KOPP: Well and it also aggravated the build up of mold at St. Mary's. I mean --

GOVERNOR O'MALLEY: And it's what 99 percent of scientists say is going to happen as the climate changes.

MS. SWAIM-STALEY: Much of it is here, with the hundred degree temperatures in July, and then followed by the significant rain in August. Both unprecedented.

GOVERNOR O'MALLEY: Mr. Comptroller?

COMPTROLLER FRANCHOT: Yes, if the Treasurer is through? Speaking of St. Mary's, Item 12? Could we, someone explain what's going on there?

SECRETARY MCDONALD: Okay, Chip Jackson is here and Tom Botzman, maybe you can? This is the sale.

MR. BOTZMAN: Good morning. I'm Tom Botzman, Vice President for Business and Finance at St. Mary's College of Maryland. With me is Chip Jackson, our Associate Vice President for Planning and

Facilities; and Mr. Joe Slater, who is the CEO of SMECO, the Southern Maryland Electrical Cooperative. And we also have other representatives of SMECO with us today. Ken Capps and Tom Dennison also are, Dan Branigan from our staff, and also Marta who helped us work through this, and Sarah Slaff from the Attorney General's Office.

COMPTROLLER FRANCHOT: And how did St. Mary's get into the utility business?

MR. BOTZMAN: I believe we've always been in the utility business.

COMPTROLLER FRANCHOT: Apparently you are exiting that?

MR. BOTZMAN: And we're exiting the utility business and we're very, very happy to do so. This has been about a five-year negotiation to work through all the details. We have many, many years of electricity running around the campus and it's a very aging electrical system. There are no local companies that can respond on a 24/7 basis to fix our primary

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electrical system. So for example, after the hurricane when we lost some power it took us a while to get it back on. And that contributed again to our issues with water that came into some of our buildings and contributed to some of the problems that we're still facing today.

SMECO will be investing over \$700,000 in upgrades to our cables and infrastructure as part of this transaction. And the College share of that upgrade will be \$51,000. I'd like to thank SMECO for being so responsive to the five years of negotiations. They have gone way above and beyond what we would have requested them in helping us with our electrical needs. We simply can't manage that type of system ourselves. It's growing in complexity and obviously we're adding more and more devices onto those grids all the time.

In the end it will reduce our exposure and our risk, improve the reliability, and we'll move forward from there.

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COMPTROLLER FRANCHOT: Well it certainly makes a lot of sense to get you out of that business and let you focus on higher ed. And Mr. Slater obviously knows the utility business. That's what they're good at. Welcome, Mr. Slater. How is your organization doing? And how are you going to pay for the investment that you need for these systemic upgrades?

MR. SLATER: Thank you, Mr. Comptroller. And thanks to the Governor and the Treasurer very much for coming before you today. We worked very hard with the College. The College is a very important asset in Southern Maryland, and of course to Maryland in general. And we're pleased to be a business partner with them and support their mission.

We will collect these revenues through rates, Mr. Comptroller. We have three objectives with our upgrades. First is safety. There is transformers on campus that are called live front transformers. If you open the front of the transformer you are exposed

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to electrical shock. So we're going to replace those, eliminate that hazard. The second is reliability. We're going to be replacing underground cable that's old, that's subject to failure, and make it much more reliable so that the College will not have interruptions to service. And the third, the third? That was a joke.

(Laughter)

MR. SLATER: The third is the College does not have, the College does not have metering on all of their facilities right now. We're going to completely meter out every building, dormitory, classroom. And they will be smart meters. The facilities folks will be able to go online, look at 15-minute interval data, and start to measure energy conservation very graphically. And that will give us the tools to work with in order to reduce their electric consumption. So we're very excited about it. We look forward to it and hope we get your approval today.

COMPTROLLER FRANCHOT: And I just wanted to thank your team because SMECO was involved in our revenue estimating meeting that the Treasurer and the Budget Secretary and I had recently, and I think Mr. Dennison from your staff participated on your behalf. And that's extraordinarily helpful. And you, I take it, reinvest the profits that you accrue into your system?

MR. SLATER: That's correct. We're a customer-owned utility. St. Mary's College is one of our owner members. Our margins we call them, we don't call them profit, we call them margins, become our retained equity, become part of our balance sheet. And periodically we refund those as new margins come in. This year we refunded about \$4 million to our owner-members, including St. Mary's College, the State of Maryland.

COMPTROLLER FRANCHOT: Excellent. Thank you.

GOVERNOR O'MALLEY: Anything else? Okay --

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TREASURER KOPP: Just one question for St. Mary's, I know the program and the College are very conservation and green oriented, it's a part of the curriculum. Is there a way that this is being worked in to the student consciousness?

MR. BOTZMAN: Oh, absolutely. We already have programs that the students have really championed to buy renewable energy credits and also by putting geothermal in. But with the ability to monitor each building --

TREASURER KOPP: Right.

MR. BOTZMAN: -- and each unit separately our programmatic staffs, so the faculty and so the staff are already working with the students to design competitions to see which residence hall, for example, uses the least electricity and take more off the grid.

TREASURER KOPP: Thank you.

MR. BOTZMAN: Thank you.

GOVERNOR O'MALLEY: Thank you. Okay. The Treasurer moves approval of the Secretary's Agenda,

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seconded by the Comptroller. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it. We move on to Department of Natural Resources. The Real Property, Open Space. Ms. Lisa Ward, joining us for the first time flying solo.

MS. WARD: Good morning.

GOVERNOR O'MALLEY: Good morning.

MS. WARD: Good morning.

GOVERNOR O'MALLEY: Ms. Ward, what do you have? Anything interesting? Pull that mike over to you. Don't be shy.

MS. WARD: Good morning, Governor, Madam Treasurer, Comptroller. I'm Lisa Ward for Department of Natural Resources. We have ten items today.

GOVERNOR O'MALLEY: Okay. Anybody have any questions on Open Space? Okay, hearing none the

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Comptroller moves approval, seconded by the Treasurer.

All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it. That was a good CREP easement in Wicomico County, too. And that's on the banks of what river there, do you know?

MS. WARD: Is it Item 8A?

GOVERNOR O'MALLEY: Yeah.

SECRETARY MCDONALD: And 7A.

TREASURER KOPP: Unnamed tributaries, was that --

MS. WARD: The Nanticoke.

GOVERNOR O'MALLEY: It's what? The Nanticoke?

MS. WARD: The Nanticoke.

GOVERNOR O'MALLEY: Okay, cool.

TREASURER KOPP: Unnamed tributaries feeding the Wetipquin Creek, a tributary for the Nanticoke.

GOVERNOR O'MALLEY: I think we must have the best maps in the State. K. Large, is that you in there? Where are you going on there? You're on the Nanticoke one?

MR. LARGE: This is Item 8?

MS. WARD: Tom McCarthy can answer that question.

GOVERNOR O'MALLEY: Mr. McCarthy, you look like you're landlocked.

SECRETARY MCDONALD: Okay, Item 7 and Item 8 are CREP easements in Wicomico county. Item 8 is the one that talks about the Nanticoke. So if we're asking about CREP easements in Wicomico you'll probably want to know about Item 7 or Item 8.

MR. MCCARTHY: Good morning, members of the Board. Tom McCarthy from Department of Natural Resources. And this is Kate Patton with the Lower Shore Land Trust. Lower Shore Land Trust, like with the Rural Legacy Program, administers these CREP easements on the local level for the department. So

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between the two of us we can answer any questions that you have.

GOVERNOR O'MALLEY: How are we doing on our CREP easements? Are we getting more people to sign up? My last look at that indicated that we kind of flat lined on the amount of easements we're signing up.

MR. MCCARTHY: The initial allocation of funding for the permanent easement program the Board, almost all of them got funded.

GOVERNOR O'MALLEY: Good.

MR. MCCARTHY: And there was --

GOVERNOR O'MALLEY: And is part of that --

MR. MCCARTHY: And there was an incredible amount of interest in that initial allocation.

GOVERNOR O'MALLEY: There was?

MR. MCCARTHY: Yes. We had hundreds of landowners interested.

GOVERNOR O'MALLEY: Huh. And those dollars derive federally?

MR. MCCARTHY: The initial program was funded by federal funds through the USDA. This was the contract rental program.

GOVERNOR O'MALLEY: Mm-hmm.

MR. MCCARTHY: The funding to create the permanent easements is the State's match for those federal funds. So this is Program Open Space funding that's being used to match the USDA funding that's going into the contracts. And the easements make the terms of those contracts permanent.

GOVERNOR O'MALLEY: And so this will allow us to, in essence, buffer the streams that run through farm properties. And how long will they remain buffered?

MR. MCCARTHY: They'll be buffered in perpetuity.

GOVERNOR O'MALLEY: Good deal.

MR. MCCARTHY: It's an excellent deal for the State.

GOVERNOR O'MALLEY: So instead of plowing right up to the water's edge we'll now have a forested buffer?

MR. MCCARTHY: That's correct. And for example, one of the easements is for a farm called the Tracey Farm. And they are going to be buffering over 52,000 linear feet --

GOVERNOR O'MALLEY: That's awesome.

MR. MCCARTHY: -- of streams.

GOVERNOR O'MALLEY: Yeah, that was the one that caught my eye. That's the one on the Nanticoke?

MR. MCCARTHY: That's correct, sir.

GOVERNOR O'MALLEY: That's a great thing. Good. And you can check out any of these by going onto Maryland.gov, GreenPrint.

MR. MCCARTHY: Absolutely.

GOVERNOR O'MALLEY: And see where these important environment designs are happening in terms of land use. Okay. Thank you all, appreciate it. We now move on to the Department of Budget and

Management. I'm sorry? Yeah, we already approved the Agenda.

SECRETARY MCDONALD: Okay, right.

GOVERNOR O'MALLEY: I wanted to get it approved before we asked questions.

(Laughter)

GOVERNOR O'MALLEY: That's our new method here. In fact, there will be no questions until it's approved. I'm just kidding, come on.

MS. FOSTER: Can we do that with the Budget Department?

GOVERNOR O'MALLEY: No.

(Laughter)

GOVERNOR O'MALLEY: Department of Budget and Management.

MS. FOSTER: Governor, Madam Treasurer, Mr. Comptroller, good morning. There are ten items on the Department of Budget and Management's Agenda for today and we'll be happy to answer any questions you may have.

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TREASURER KOPP: I would just like the opportunity at some point, Madam Secretary, 1-S, which is MTA, procurement of consultant to help with capital project prioritization process?

MS. FOSTER: Correct.

TREASURER KOPP: Just to learn more.

MS. FOSTER: This is a Department of Transportation Agenda item. And this contract allows them to develop a capital improvement plan optimization process so that they can prioritize their projects.

TREASURER KOPP: I don't want to bog down things but I'm just --

MS. SWAIM-STALEY: We'd be happy to give you a briefing. It's a fairly new concept, I think. But we thought we really needed to help prioritize given the diminishing resources and yet the aggressive agenda that we want to have with regard to transit. Sort of a better way to maybe prioritize, and cost benefit as well as, you know, other projects. So we'd

be happy to come, we had a briefing on it and we're interested in it, so we'd be happy to come share it with you.

TREASURER KOPP: Thank you. We don't have anything like this for other aspects of the capital program?

MS. FOSTER: No.

TREASURER KOPP: I'm just curious. Thank you.

GOVERNOR O'MALLEY: And so this would in essence, this was a way to prioritize the capital investments according to system needs as they intersect with the greatest number of lives that are affected by their transport across that infrastructure?

MS. SWAIM-STALEY: Well I think this is a, this new software, so to speak, that was demonstrated to us that would I think allow us to bring in a lot more factors than we currently have --

GOVERNOR O'MALLEY: Mm-hmm.

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MS. SWAIM-STALEY: -- in terms of evaluating, you know, which projects are the ones that we should move forward with.

GOVERNOR O'MALLEY: Is Beth Lauer aware of this one? Do you know? Could you make Beth aware of it at StateStat?

MS. SWAIM-STALEY: I'm not sure. I'll ask the MTA folks if they've talked about it at StateStat. I suspect they have but I'll double check.

GOVERNOR O'MALLEY: Because we've been working on the same sort of thing with regard to our bridge program and having the layers of information, and know not only where, what the range of structural integrity of the bridge is, the range, what the range of structural integrity is of all of our bridges, but also the number of people that travel over those bridges so that we can prioritize the dollars accordingly.

MS. SWAIM-STALEY: I'll check. It may have actually been your office, Governor, that was the first one to sort of, pointed us in this direction --

GOVERNOR O'MALLEY: Okay.

MS. SWAIM-STALEY: -- with regard to some of the technology that's out there.

GOVERNOR O'MALLEY: Yeah, because it sounds like a similar thing.

MS. SWAIM-STALEY: So I think it is.

MR. COLLINS: I'd be very interested also, Governor, for the capital projects that we have. Lots of them are deferred and we need to figure out, Madam Treasurer, how to move forward with all those items.

TREASURER KOPP: I mean, I would just be very interested in hearing how it works and how you know you've captured, how the group knows they've captured the appropriate --

MS. SWAIM-STALEY: Well we haven't used, we've looked at it from a demonstration perspective.

Obviously this is the first time we've used it. So we

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can't say too much in regard to the benefit. But it certainly was a very intriguing concept, of being able to use something with the software. Take some of the personal --

TREASURER KOPP: The computation.

MS. SWAIM-STALEY: -- personalities out and personal agenda and interest out, to really do it much more in a statistical and technical evaluation.

GOVERNOR O'MALLEY: Yeah if you map where the, sometimes on the federal dollars if you map where they land compared to where the need is, you'll see a much greater correlation between seniority within the congressional district delegation than you will to the number of persons that travel over deficient infrastructure.

MS. SWAIM-STALEY: Right. So I think, you know, we've had a process we've used for many years but it's probably, it's time to reevaluate and there's a better way to do it.

TREASURER KOPP: Well and to take advantage of new technology.

MS. SWAIM-STALEY: Absolutely.

TREASURER KOPP: It allows you to --

MS. SWAIM-STALEY: Absolutely.

TREASURER KOPP: Yeah, thank you.

GOVERNOR O'MALLEY: And then we'll still go back to counting up votes, right? All right.

TREASURER KOPP: It would be interesting.

GOVERNOR O'MALLEY: The Treasurer moves approval of the Department of Budget and Management Agenda items, seconded by the Comptroller. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it. And we now move on to the University System of Maryland.

MR. STIRLING: Good morning, Governor, Mr. Comptroller, Madam Treasurer. Jim Stirling for the

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University System. We have seven items on today's Agenda. I'd be happy to address any questions you have.

GOVERNOR O'MALLEY: Mr. Comptroller?

COMPTROLLER FRANCHOT: Yes. Item 3-G, please.

MR. STIRLING: Okay.

COMPTROLLER FRANCHOT: Governor, I don't know whether this jumped off the page at you but as much as we love Bowie State University it's a request to purchase with taxpayers' dollars 32 Steinway pianos at Bowie State University.

MR. STIRLING: Yes, sir. It's part of the outfitting of the new performing arts center that is about to open there. They want to become what's known as an All Steinway School. These are the kinds of instruments that would attract the best and the brightest to that institution.

COMPTROLLER FRANCHOT: Well I guess I understand the emphasis on performance and the

performing arts, and fine arts. I salute the University for that. But could you explain to me with all the challenges that are over there on that campus why we would pick the most expensive? I mean, we're talking almost \$20,000 a piano. Why we would choose to buy 32 of these? I guess there is some prestige with being an All Steinway School. But couldn't we have bought a couple of Steinways and then the rest could have been the Chevrolets rather than the Rolls Royces?

MR. STIRLING: Well it's all a part of an integrated program. I do have Dr. Holmes from Bowie State University here --

COMPTROLLER FRANCHOT: Great.

MR. STIRLING: -- who can talk to the why All Steinway.

DR. HOLMES: Good morning.

GOVERNOR O'MALLEY: Good morning.

COMPTROLLER FRANCHOT: Good morning.

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DR. HOLMES: My name is Marymal Holmes. Please excuse my voice. I'm having some allergy problems this morning. I appreciate the opportunity to speak with you all this morning on behalf of Bowie State University in regards to the All Steinway Program at Bowie.

The purchase of the Steinway pianos will make Bowie State only the second historically black institution in the United States to be on the roster of an All Steinway institution. This would align Bowie State with a select group of quality universities and conservatories, such as Yale, the Cleveland Institute of Music, Oberlin Conservatory, and the University of Maryland at College Park which is also a Steinway institution, in addition to over 125 other institutions worldwide. The association with these institutions, coupled with the Steinway quality and its iconic name, will help us at Bowie State to elevate our profile there. And in conjunction with our new state of the art fine and

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performing arts building, which I'm happy to say is due to open in January of 2012, it will, the All Steinway program will definitely benefit and bolster our recruitment efforts in attracting and retaining the brightest and the best music students from the State of Maryland and from other jurisdictions.

This would be a win-win situation for the students at Bowie State and higher education in general. And I've been on faculty at Bowie for 28 years now. And the facilities that we have and equipment that we've used over those past 28 years have been substandard. This would be a tremendous uplift for our institution as well as our students. And I think that, as a matter of fact just to step aside for a moment, I've been a musician and played piano for over 52 years of my life. And I know pianos. Most musicians and people who have studied seriously piano would recommend the Steinway. It's, there's no question of its touch, tone, the construction of the instruments is the best. And I

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believe Bowie State University deserves the best that we have to offer here in the State of Maryland.

Thank you.

COMPTROLLER FRANCHOT: Well thank you for that. And I appreciate that and I salute you for your service. I guess my question is, if you took 100 people in a concert hall and blindfolded them would they know the difference between a Steinway and, say, what's another brand, Kawai, or something like that?

DR. HOLMES: If they have any upper music I believe that they would know the difference between a Steinway and the Chevrolet, as you say. I think they would know the difference between them. The tone is unmistakable. The clarity, the overtones of the touch when you play the instrument, there's nothing to compare to it. Nothing.

COMPTROLLER FRANCHOT: Let me ask your colleague behind you, is there, these other institutions, I take it Yale and others that have the All Steinway, they I assume would buy those with

private dollars that they raised from their alumni or something?

MR. STIRLING: Perhaps. I actually don't have that information.

COMPTROLLER FRANCHOT: And Bowie State is in the midst of a \$15 million capital program. Why don't we use that, those dollars for the Steinway purchase? If you insist, I have no reason to, I salute your presence here and your commentary. But I find it pretty amazing that we couldn't buy a couple of Steinways for the professionals when they appear at Bowie, and the students when they have a public performance, but the other 30 could be, you know, much less expensive and frankly just as good for people like myself. And I'm sure most of the students in their, in their studios. But in any event, why wouldn't we use private dollars to buy the Steinways rather than taxpayers'?

MR. STIRLING: I think that's a fair question. I don't know whether Bowie had engaged in

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any kind of private fundraising for this particular purchase. But I'll certainly go back and address that with them.

TREASURER KOPP: Is it normal for them to, when they build a new building and they have long lived equipment in it, to get it from the private sector? I mean, isn't that a normal part of equipping a building?

MR. STIRLING: Well this is, these are items that are on the approved equipment list --

TREASURER KOPP: Yes.

MR. STIRLING: -- that are developed. So it is a normal part of that process.

TREASURER KOPP: Yes. But this process is the normal process?

MR. STIRLING: Correct.

TREASURER KOPP: Yes.

COMPTROLLER FRANCHOT: Okay. I'm just commenting for the record, and I'm reluctantly going to vote against this because I like Bowie State University. But I think buying 32 Steinway pianos in

this kind of climate is just, given the challenges that that, that all of these universities face, and you see that, I take it, in your --

MR. STIRLING: Absolutely.

COMPTROLLER FRANCHOT: -- in the System.

And I just think it's a luxury, a luxury at this point that we, that the taxpayers should not be paying for. Other than one or two that would be used for the concerts that people come in for. But the rest of it, I think we could very nicely do with much less expensive, almost just as good, pianos. And --

DR. HOLMES: Mr. Comptroller, may I make a comment?

COMPTROLLER FRANCHOT: Sure.

DR. HOLMES: There, the pianos that we are, that we would like to purchase would be four actual Steinways and the other pianos would be Steinway designed products, such as Boston pianos and Essex pianos, which are designed by Steinway. And I believe that the cost that was given us was equivalent to that

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if we had purchased, say, Kawais. I mean they came, gave us a very fair price, I believe, for these better pianos. And, but they are not all Steinway as it is at the University of Maryland College Park, which I believe have Steinways in their practice rooms as well. We will not have Steinways in our practice rooms. We will have Essex pianos, which are designed by Steinway. And in my office I will have a Boston piano, which is designed by Steinway. But in our concert facilities, our main theater, and the piano tutorial studios, and the recital hall we will have actual Steinways. So it's not, you're not buying all --

COMPTROLLER FRANCHOT: No, I appreciate it. And don't take this personally, because you, obviously you play beautifully on whatever piano it is that's in front of you and the kids do, too. But it's the, maybe the symbolism of this more than anything that I just think is out of touch with where we are right now given the economy.

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MR. STIRLING: I did want to point out that by going with the All Steinway package deal we get a 35.7 percent discount off of list on the pianos. So we're not paying them full freight.

GOVERNOR O'MALLEY: That's good.

MR. STIRLING: You did have a question earlier about why we can't buy other types of pianos. There are some uses there, we bought some electronic pianos from another dealer that the Board approved at a previous meeting, a couple of meetings back.

TREASURER KOPP: I'd just like to put in a different perspective. It is my understanding that in this new building and in our school, which we want to be one of the finest in the country, you're going to have with this purchase four concert Steinway grand pianos for the concert halls, public performance; five Steinway/Boston grand pianos for the professors' studios; and 23 Steinway/Essex studio pianos for the students' practice rooms. And there was a 20 percent discount on the Steinway grand pianos, 20 percent on

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the Boston, I don't want to confuse Boston and Essex, and 38 percent on the Essex, amounting to 24, 25 percent savings on the entire package.

MR. STIRLING: In aggregate.

TREASURER KOPP: And that still meets, this is my question, however, that still meets the criteria of All Steinway because the Boston and Essex are Steinway designed and designated?

MR. STIRLING: Exactly.

TREASURER KOPP: So there's no question of false advertising?

DR. HOLMES: No.

TREASURER KOPP: Or, everyone understands? And are there, are there studies, or is it just a gut feeling, that being an All Steinway school in fact does establish a prominence and make it more attractive and renowned?

DR. HOLMES: We have not done a particular study ourselves. But we have talked to students, the students on campus know the difference between

Steinways and other, it's a name that's just associated with greatness.

TREASURER KOPP: Well, it is.

DR. HOLMES: And they know the difference and they are very excited at the prospect of us having this. So hopefully we are able to do this. But I would as a student, if I knew of a school that had All Steinways, that would mean something to me. That the school is about excellence and about seriousness of study of the music. And I would be attracted to an institution such as that.

TREASURER KOPP: But let me say, I shared the Comptroller's concern. It obviously stands out. But I appreciate the, your, Bowie's, I don't know actually who responded to the questions of the Deputy Treasurer. I certainly understand the thing about symbolism but we're looking at two different things. It's symbolic of a great school, and on the other hand have to address the cost. I do appreciate the fact that you got a 25 percent, 24 percent savings from the

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package. And that, in fact, is, answered my fiscal concern.

DR. HOLMES: Yes.

TREASURER KOPP: I now look forward to going and hearing.

GOVERNOR O'MALLEY: So do I.

DR. HOLMES: Thank you.

TREASURER KOPP: He's the actual musician in the room.

GOVERNOR O'MALLEY: Well my people I play with are, anyway. Okay. This is now University of Maryland. Let's, what item was this, Mr. Comptroller?

COMPTROLLER FRANCHOT: Is it --

MR. STIRLING: 3-G.

TREASURER KOPP: Three.

COMPTROLLER FRANCHOT: Three? Item 3.

GOVERNOR O'MALLEY: Item 3. Let's handle it separately. The Governor moves approval of Item 3, seconded by the musically appreciative Treasurer. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

COMPTROLLER FRANCHOT: No.

GOVERNOR O'MALLEY: The Comptroller votes no and the matter passes. We now move to the balance of the University System Agenda items. The Treasurer moves approval, seconded by the Comptroller. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: And the ayes have it. We now move on to the Department of Information Technology.

MR. SCHLANGER: Good morning, Governor, Madam Treasurer, Mr. Comptroller. For the record, Elliot Schlanger, Department of Information Technology. This morning we have five items on the Agenda and I would be happy to answer any questions at this time.

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GOVERNOR O'MALLEY: Okay, if there's no questions?

COMPTROLLER FRANCHOT: Move approval.

GOVERNOR O'MALLEY: The Comptroller moves approval. Seconded by the Treasurer. All in favor signal by saying, "Aye." All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it. And now we move on to --

MR. SCHLANGER: Thank you.

GOVERNOR O'MALLEY: Thank you, Mr. Secretary. The Department of Transportation.

MS. SWAIM-STALEY: Good morning, Governor, Madam Treasurer, Mr. Comptroller. For the record, Beverley Swaim-Staley presenting MDOT. We have nine items today. Items 2 and 9 have been revised. And we're available for questions.

GOVERNOR O'MALLEY: The Treasurer moves --

COMPTROLLER FRANCHOT: Oh, I --

GOVERNOR O'MALLEY: I'm sorry. Comptroller?

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COMPTROLLER FRANCHOT: Just, not an item, but I would like to recognize Angelo Perseghin, who is sitting in the back. I understand that Mr. Perseghin is completing 37 years of State service today. He works for the Port Administration. So it was appropriate when I mentioned earlier about the Port, and what the Governor said. And I just want to thank you. I take it this is your last BPW meeting. And God bless you, 37 years of this place, here, you've got my respect.

(Applause)

GOVERNOR O'MALLEY: Mr. Perseghin, Mr. Perseghin, you want to come up and say anything? Come on. Come on. This is your opportunity. They can't hurt you now.

MR. PERSEGHIN: My name is Angelo, Andy Perseghin. I work for the Port Administration, the Maryland Port Administration. Over the years I've worked for many governors. Each of them have had their agendas. As a State employee, and many State

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employees, we've had to adapt to those agendas. And I can honestly say that I have seen a lot of integrity in Maryland State employment. I've seen a lot of morals in Maryland State employment. And it's been my pleasure to work with many of those people and to call myself a Maryland State employee. Thank you.

GOVERNOR O'MALLEY: Thank you, Mr. Perseghin.

(Applause)

GOVERNOR O'MALLEY: Well said.

COMPTROLLER FRANCHOT: Yes.

GOVERNOR O'MALLEY: The Comptroller moves approval, seconded by the Treasurer. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it. We now move to the Department of General Services. And Mr. Perseghin, thank you for your service.

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MR. COLLINS: Good morning, Governor, Madam Treasurer, Mr. Comptroller. The Department of General Services has 27 items on our Agenda. Item 2 has been withdrawn. Items 6 to 9 have been revised. I'd be glad to answer any questions you have on any of the remaining items.

GOVERNOR O'MALLEY: I don't think we have any. Oh, the Comptroller has one.

COMPTROLLER FRANCHOT: No, I understand you're withdrawing Item 2 for further review, Secretary Collins. I really would encourage you to take a close look at this because before it was withdrawn the facts that we were given showed that a decision was made to grant an MBE waiver to one company and reject the request of another company, despite the fact that their MBE goals were virtually identical, less than a percentage point, I think. And the one that got the waiver was a Virginia company and the one that didn't get the waiver was a Maryland company. And it's a well known, excellent company.

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And as a result we would have paid \$200,000 more for the Virginia based company if we had voted on it today. And I really appreciate the fact that you're going to take another look at it because in its current iteration it certainly caught my eye. And I'm not sure whether everybody else took a look at it, but hopefully it can come back in a different form.

MR. COLLINS: Mr. Comptroller, as you indicated there are many, many factors involved in this particular transaction. We withdrew it to take a look at it and make sure that all of our steps were 100 percent sound and appropriate.

GOVERNOR O'MALLEY: Okay.

COMPTROLLER FRANCHOT: Did you see that also, Madam Treasurer? Or not? I don't know whether --

TREASURER KOPP: I, well I saw the comments --

COMPTROLLER FRANCHOT: But I appreciate another view because --

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MR. COLLINS: As you know these items are usually very complicated and we will review it again before we bring it back.

COMPTROLLER FRANCHOT: Thank you.

GOVERNOR O'MALLEY: Thank you. The Comptroller moves approval of the DGS Agenda items, seconded by the Treasurer. All in favor signal by saying, "Aye."

THE BOARD: Aye.

GOVERNOR O'MALLEY: All opposed?

(No response.)

GOVERNOR O'MALLEY: The ayes have it and that concludes our meeting. Thank you all very, very much.

(Whereupon, at 11:50 a.m., the meeting was concluded.)