

Webinar PreBid Video Conference William H Natcher Bridge Repairs-20240212_163729-Meeting Recording

February 12, 2024, 3:52PM

44m 37s

🕒 started transcription

👤 **Graves, Ashley R (KYTC)** joined the meeting

👤 **Goad, Tyler T (KYTC-D02)** joined the meeting

👤 **Scott Ribble** joined the meeting



Graves, Ashley R (KYTC) 2:52

Hey, Scott.



SR Scott Ribble 2:58

Good morning.



Graves, Ashley R (KYTC) 2:59

Yeah.

I just hold them all in the lobby and then I made them all at time, I guess.



SR Scott Ribble 3:10

I guess you could.

You just let them all into one.

As they come, whenever you prefer.



Graves, Ashley R (KYTC) 3:16

Did did you wanna test sharing real quick before I let him in?



SR Scott Ribble 3:22

Yeah.

So you do I.

Yeah, yeah, I guess I have have access to do it.



Graves, Ashley R (KYTC) 3:28

OK, then you should be good.



SR Scott Ribble 3:31

Yeah, you guys see that?



Graves, Ashley R (KYTC) 3:33

Yeah.

Yeah, you're good.



SR Scott Ribble 3:35

Alright, let me stop sharing.

Do you wanna do this one just like the last one, where you were?



Graves, Ashley R (KYTC) 3:38

Umm.



SR Scott Ribble 3:40

Tom will talk for a little bit and then kind of flip through this stuff real quick.



Graves, Ashley R (KYTC) 3:44

Yeah, yeah, probably.



SR Scott Ribble 3:51

Yeah.

So I learned to not have my laptop open so that it it uh, doesn't get the resolution issues like last time.



Miracle, Donnie R (KYTC) joined the meeting



Graves, Ashley R (KYTC) 3:58

Yeah.



Dallas Montgomery joined the meeting

SR **Scott Ribble** 4:23

So they're not.

 **Mathews, Tom T (KYTC)** joined the meeting

 **Crawford, Randy E (KYTC)** joined the meeting

 **Graves, Ashley R (KYTC)** 5:44

I'm going to go ahead and admit a bunch of these that are in the lobby.

 **Scott Greenhaus** joined the meeting

 **Robert Lail** joined the meeting

 **Caleb Hurst** joined the meeting

 **Becky Smith** joined the meeting

 **Chinmay Modi** joined the meeting

 **Byron Ogger** joined the meeting

RL **Robert Lail** 5:51

Ohh.

You have a.

That out.

 **MICKLUS Drew** joined the meeting

 **Baron, Michael** joined the meeting

 **SMITH Matthew** joined the meeting

 **Mills, Rachel A (KYTC)** joined the meeting

 **Morgan, Lonnie D (KYTC)** joined the meeting

 **Judy C Harp Co - Sara Jones** joined the meeting

 **Brandon Hinson** joined the meeting

 **Jeffrey McMahon** joined the meeting

 **Jordan Sessa** joined the meeting

 **Jordan Sessa** 8:03

Yeah, we were not successful on it.
We were like 10% high.

 **Bob Sward** joined the meeting

 **Robert Lail** 8:47

Hi.
Gentlemen, I'm just checking our our feed.
Can you hear me?

 **Graves, Ashley R (KYTC)** 9:00

Yes, I can hear you.

 **Mathews, Tom T (KYTC)** 9:01

Umm.

 **Robert Lail** 9:01

Perfect.
Thank you.
OK, set too loud.
Perfect.
OK, when you're done, just hit the X up in the corner.
OK, call me if you can get run into.

OK, later.

Are you going on?

Yeah.

Because if it's gonna be 2 hour meeting, I don't have anything I can do.

OK, so I don't think.

Weather permitting.



Graves, Ashley R (KYTC) 9:24

Yeah, your Mac is doing too.



RL Robert Lail 9:27

Ohh, thank you.

Sorry about that. OK.



Graves, Ashley R (KYTC) 9:41

Tom, you wanna give him a few more minutes or?



MT Mathews, Tom T (KYTC) 9:44

Yeah.

Let's see what we got.

A couple after 11.

And we can we can go ahead and start with the introductions.



Graves, Ashley R (KYTC) 10:00

OK.



MT Mathews, Tom T (KYTC) 10:01

Yeah.



Graves, Ashley R (KYTC) 10:02

We'll go ahead and get started on and this is the.

The three bed video conference for the Davis County CID 242971.

This is the pre bid meeting that's required by the proposal and we'll go ahead and get started with a introductions.

My name is Ashley Grays with KYC and I will pay.

I'm a project manager and waterbridge engineer and I'll pass it over to Tom.

MT Mathews, Tom T (KYTC) 10:33

Hey I guess is if we got a Scott on here, the OK, yeah, I guess we're gonna let Scott go through the proposal as we did the last time on this or on the one for the harsher that we're gonna relet or put back in leading at a later date.

JM Jeffrey McMahon 10:34

Would be.

 **Graves, Ashley R (KYTC)** 10:37

Yeah.

Yeah.

MT Mathews, Tom T (KYTC) 10:47

And but anyway, we'll just have Scott go through the plans and when you need to ask a question, please state your name and the name of the company you're representative.

So we can keep track there, keep that in line and what we this will be recorded.

We got the recording on Ashley.

 **Graves, Ashley R (KYTC)** 11:06

Yeah.

MT Mathews, Tom T (KYTC) 11:06

OK.

All right.

And I'll just hand it over to Scott and let him go over to the proposal and just ask questions if you need to.

After we get to the introductions, after we go through dinner reductions here.

 **Graves, Ashley R (KYTC)** 11:17

Uh. Yep.

After we go through the introduction, yeah.

Umm, I guess we'll start with presenters.

Umm.

Mount Scott, you wanna introduce you and who's with you?

 **SR Scott Ribble** 11:36

And Scott Ribble with birds and knippel.

I have blue bird.

Well, here in the room with me and Dallas, Montgomery is dialed in separately.

But but on the design side as well.

 **Graves, Ashley R (KYTC)** 11:47

OK.

Uh, Rachel, do you wanna introduce yourself and anyone from your department?

You're muted.

 **MA Mills, Rachel A (KYTC)** 12:05

Rachel Mills, division of construction, procurement and on here we have Donnie Miracle conversion of construction procurement.

Uh.

Lonnie Morgan, division of construction procurement and Randy Crawford, division of construction procurement.

Thank you.

 **Graves, Ashley R (KYTC)** 12:23

OK, yeah.

And I'll go down the list.

We'll start with Judy Harp.

 **J Judy C Harp Co - Sara Jones** 12:34

Sarah Jones, JC Hart company.

 **Johnson, Eathan D (KYTC-D02)** joined the meeting

 **Graves, Ashley R (KYTC)** 12:39

Mike Baron.

 **Baron, Michael** 12:49

Sorry.

Uh, Mike Baron with Michael Baker.

 **Graves, Ashley R (KYTC)** 12:52

OK.

Uh, Becky Smith.

 **Becky Smith** 12:56

Rebecca Smith and I'm with Eminem services company.

 **Graves, Ashley R (KYTC)** 13:00

Yeah.

 **Jeffrey McMahon** 13:01

Jeff Jeff McMahon with Eminem Services company.

 **Graves, Ashley R (KYTC)** 13:04

OK.

Uh Bob's sword?

 **Bob Sward** 13:09

From Bob Sward was structural technologies via cell.

 **Graves, Ashley R (KYTC)** 13:14

Brandon Hinson.

 **Brandon Hinson** 13:17

Yeah, Brandon with PCL.

 **Graves, Ashley R (KYTC)** 13:22

Byron.



Byron Ogger 13:25

Byron Ogre in that contracting.



Graves, Ashley R (KYTC) 13:30

Caleb.



Caleb Hurst 13:32

Caleb, first regular corporated.



Graves, Ashley R (KYTC) 13:38

Gonna meeting guest chinmay.



Chinmay Modi 13:41

Yes, this is still my Modi from Southern Rd and Bridge.



Graves, Ashley R (KYTC) 13:48

Had taller.

God.



Goad, Tyler T (KYTC-D02) 13:53

Yeah.

Tyler go District two, bridges and air.



Graves, Ashley R (KYTC) 13:57

Umm.

I think, Jeff, I think you already introduced yourself, didn't you?




Jeffrey McMahon 14:03


Yeah, Mcmann, yes.



Graves, Ashley R (KYTC) 14:05


Umm Ethan Johnson.


 **Johnson, Eathan D (KYTC-D02)** 14:11
Evan Johnson's real section engineer.


 **Graves, Ashley R (KYTC)** 14:16
A Jordan sessa.

 **Jordan Sessa** 14:20
I had Jordan Sessa structural technologies via SSL.


 **Graves, Ashley R (KYTC)** 14:26
Macklis drew.


 **MICKLUS Drew** 14:30
Drew Nicholas with fresnay.

 **Graves, Ashley R (KYTC)** 14:32
To yeah.
Robert Lyle.

 **Robert Lail** 14:37
Bob layer with your long concrete.

 **Graves, Ashley R (KYTC)** 14:41
Scott.
And I'm hold on Scott Greeness.

 **Scott Greenhaus** 14:50
Yeah.
Scott Greenhouse, structural technologies.

 **Graves, Ashley R (KYTC)** 14:55
Smith, Matthew or Matthew Smith?

SM **SMITH Matthew** 14:59

Matthew Smith with Fresno.

 **Graves, Ashley R (KYTC)** 15:02

Are there any more that I missed going down that list?

If not a.

Quick overview, this is the way you makes natural project.

It's mainly the work on the cable protection system and like a again this is CID 242971, Davis County.

It's off of US.

231 umm I would crossed the Ohio River and I will pass this over to Scott so that he can start going through some of the proposal and notes.

SR **Scott Ribble** 15:50

And hopefully you'll be seeing especially note up on your screens.

 **Graves, Ashley R (KYTC)** 15:57

Yeah.

SR **Scott Ribble** 15:58

Holler Holler if it's not shown.

Otherwise the start going through these.

Ashley said this is for the William H Natcher Bridge and Davis County.

We have a 220 working days set up for this project with a completion date of June 30th, 2025.

Standard liquidated damages for the project.

I've interspersed the plans and specialists try to keep things straight forward.

They actually said this is off of this 231 Davis County, northeast of city of Owensboro.

They have special notes.

Bridge is a 2 tower cable stayed bridge.

12 cables come off of each side of each tower for a total of 96 cables for the bridge is actually said we're working on primarily the protective systems that have various deficiencies that we hope to get addressed for the to last, the lifetime of this bridge.

Umm, the typical section of the bridge, there's.

Northbound and southbound traffic or separated by a permanent median.

We're only.

There's 212 foot lanes on each side in 4 foot shoulders in each of the four directions.

We'll look at maintenance traffics later, but the project is set up to during.

The the meat of the project and contract will have access to 1/2 of the bridge in its entirety, with bidirectional traffic on the other side.

You also have the option.

To set up single lane closures, each direction to keep one lane on each side of of the media barrier.

Is also schematic there the state campus a from top to bottom.

RL **Robert Lail** 18:06

It's.

SR **Scott Ribble** 18:12

First repair.

That we're we're looking at is repairs and along the free length of the cable between the connections.

There is not A at the time of the inspection of this bridge, there were not a large number of free length issues.

There was one significant one that was previously repaired.

This goes through the process of identifying and addressing the any deficiencies that currently exist among the the free link.

So we're talking about this out in the middle of the cable between connections.

If there's an issue with the repair procedures are.

Uh next?

The repair issues are and the connection sleeves at the top and bottoms of the cables.

This is beyond the free length.

The prior to the anchorages, uh, there's quite a few issues in these the in the connection sleeves themselves, both in the outer HDP layers as well as within the group that's within those a couple of special notes here to deal with the, the HDPE issues as well as the grounding issues.

In a few photos there the existing sleeves, you can see some of the the cracks in the offsets and bulges and in various issues in the system as well as what the cross

section of the cables look like with the.

Grab around them with inside the the HDPE pipes.

Moving on.

Over the length of the cables, once the connection sleeves are repaired, any free length efficiencies we're gonna provide a a installed protective tape repair over the length of the cables.

And procedures.

Yeah, you can see the limits of.

It is from connection sleeve to connection sleeve.

It's gonna go.

They're from the end of the connection.

Say the connection.

So I was going to go pretty much the full length of the HTTP cables, cable sheets.

At the upper end, in the back to the drawing at the upper end, there's a boot.

There's also a book at the lower end that will handle separately, but there's neoprene boot that's gonna have to be removed and then replaced with the new boot that's covered here we're drawing.

The plans for this one of the bigger items here is installing new friction dampers down at the deck level.

This will replace the existing wind tie system on the bridge.

And the procedures.

This is schematic of of what this may look like and then all the design data that's necessary to do based on when testing that was performed a couple of years ago.

Once the protective systems are all restored, the grease in the upper and lower Anchorage caps will be replaced to provide.

Uh was once the waters out of the system.

This will get not a good long term protection on the strand ends.

Let's look something like this for the upper and lower ends.

As I mentioned, with the traffic control in general, they'll be the option of both doing single lane closures as well as taking the entire one side or the other.

On various bid items and notes there was an overlay project performed on this bridge in the last couple of years for which we're installed permanent crossovers at both ends of the bridge.

RL Robert Lail 21:50

Yeah.

SR Scott Ribble 21:59

That contract will be utilizing to shift traffic from one side to the other and then back again.

Complicating this, there's an interchange just north of the bridge and the Indiana side that will require a little bit of attention because we won't be able to cross traffic back over till north of that interchange.

That's handled here and bottom will be routing traffic north and then doing a U turn up near the entrance of the power plant.

Lots of details in there schematic view of both of the the detours.

That's the bird's eye view of this.

This is what it looks like when you're you have traffic shifted over having that full full width to to work on the one side at the time leave.

That is the end of the plans.

There's any questions on these or in the project in general?

 **Graves, Ashley R (KYTC)** 23:00

I will make a note about the MOT we do have the.

Well, I won't blank.

SR Scott Ribble 23:09

Walker carry.

 **Graves, Ashley R (KYTC)** 23:10

Yeah, it that project will be let with this, letting also and it's got a detour set up between May 1st to November 15th.

So it will be detouring traffic up to this interchange here in Indiana.

So the contractors who get both of these projects when will need to coordinate on that traffic, if there's conflicts, shouldn't be that much volume, but just a a word of note to coordinate.

Any other questions to that that he went over on the notes or our plans?

JS **Jordan Sessa** 23:58

Hey, this is Jordan cessa.

Structural technologies.

Is there a list of free length cable repairs we didn't notice those in the plans?

The locations of those.

SR **Scott Ribble** 24:08

No, there.

There are, as of the time that the last inspection was performed on.

On this bridge, there were no significant for length efficiencies at the time.

RL **Robert Lail** 24:20

OK.

SR **Scott Ribble** 24:22

Uh, that would require significant repairs.

This is set up in case something has happened in the intervening time, and the special note covers the procedure for identifying those and then.

Have you figured out whether which type of repair it would be?

JS **Jordan Sessa** 24:36

OK.

SR **Scott Ribble** 24:38

But it's not anticipated to be a significant portion of the work on this bridge.

JS **Jordan Sessa** 24:43

So if if we find that there's been, you know, if if the current inspection ends up being identical to the inspection a few years ago, then there would be no free length.

Cable repairs would be the anticipation, OK.

SR **Scott Ribble** 24:56

That would be correct, right?

If there if something significant has not happened, then yes, that that would not be.

I believe we we have a small number included in the bid items to establish a cost and then this would just be removed from the project if they're not needed.

JS **Jordan Sessa** 25:15

OK.

Thank you.

 **Graves, Ashley R (KYTC)** 25:25

Any more questions?

MD **MICKLUS Drew** 25:37

Is there a deadline for the submitting questions?

 **Graves, Ashley R (KYTC)** 25:44

Just on procurement website or?

MD **MICKLUS Drew** 25:47

Other than the document showed when they'll be answered within like one day of the leading, but it doesn't say when the deadline for submitting questions is.

MA **Mills, Rachel A (KYTC)** 26:00

You can actually submit questions up until that exact same deadline, but of course you're not going to get an answer.

I mean, so the quicker you get the questions and I guess the sooner the better chance you'll have an answer posted that would be my recommendation.

SR **Scott Ribble** 26:26

They also mentioned that we have an optional site visit set up on the bridge this Friday.

Umm at 11:00 AM central time, the right lane?

The northbound right lane will be closed at anyone who who chooses to visit is more than welcome to yeah.

Have your personal protective equipment.

If you're just gonna walk the deck safety vest, if you're gonna go up in the towers, the appropriate fall protection then. But.



Graves, Ashley R (KYTC) 26:57

Yeah.

And I would need.

Just quickly in the chat, type in that you're interested in visiting and that way we know if there's are gonna people should showing up and then also send me an email with the list of people you're gonna be coming with.

I needed your name company in in the list of people.

I mean, do we have interest in people coming?



Bob Sward 27:42

Uh, yeah, yeah.

We're planning to come.



Jeffrey McMahon 27:44

Yes.



Graves, Ashley R (KYTC) 27:45

OK.



Jeffrey McMahon 27:45

Yeah, Jeff and Magnum service, did you say you wanted to on this video chat?



Graves, Ashley R (KYTC) 27:49

Just now, just go ahead and email it to me.



Jeffrey McMahon 27:52

Email.




Graves, Ashley R (KYTC) 27:52


It sent since I.

I'm just curious if if we're gonna have any people show up, but if we are, then just go ahead and email me a list of of who's coming.

JM Jeffrey McMahon 28:04
OK.

 **Graves, Ashley R (KYTC)** 28:04
And and I will say that if you have questions out there on the side, we, we can't answer them because it it's so busy that any questions that that are come up out while you're on the site visit need to be submitted through procurement.

SM SMITH Matthew 28:22
Is asleep visit Friday or Thursday?

 **Graves, Ashley R (KYTC)** 28:25
In the site visit is Thursday.

SR Scott Ribble 28:28
Sorry about that.

SM SMITH Matthew 28:29
Thursday.
OK.
Yep, just making sure you said Friday.

SR Scott Ribble 28:34
Yeah, my bad.

JM Jeffrey McMahon 28:34
Yeah.

SR Scott Ribble 28:35
Sorry about that.

SM SMITH Matthew 28:37
No problem.

SR **Scott Ribble** 28:37

That Thursday, 11:00 AM central time northbound, right lane.

SM **SMITH Matthew** 28:41

Great.

 **Graves, Ashley R (KYTC)** 28:42

It's it's 10:00 AM central time, 11 Eastern, isn't it?

SR **Scott Ribble** 28:46

Of yeah, that is the one special that I don't have in front of me.

 **Graves, Ashley R (KYTC)** 28:52

Yeah.

SR **Scott Ribble** 28:53

Of course.

Do you have that actually to verify?

So that's the last thing we say on this one.

 **Graves, Ashley R (KYTC)** 29:05

Yeah, it should be sharing now.

SR **Scott Ribble** 29:09

OK, so 11:00 AM Eastern, not central on Thursday, not Friday.

 **Graves, Ashley R (KYTC)** 29:13

Yeah.

Are there any other questions?

But the plans are special notes that we can address.

JM **Jeffrey McMahon** 29:56

Kind of.

The grout repair is that something that you sound?

You sound the plastic pipe to see if there's an error voice underneath it, and you drill holes and inject new grout in.

SR **Scott Ribble** 30:08

The contractor will be responsible for submitting a a repair procedure, but that that does sound like one that that would work pretty well.

JM **Jeffrey McMahon** 30:18

OK.

DM **Dallas Montgomery** 30:21

This Dallas just to know uh, that will be interiors of those voids.

Most of them have debris in them and that will need to be cleaned out before in part of the growing plan so that it can be grouted properly.

JM **Jeffrey McMahon** 30:42

So you want to like either use the vacuum system, all that debris.

Is there any cleaning procedures that you would that you want to do?

Prior to the graph.

DM **Dallas Montgomery** 30:57

Umm, that's going to be up to the contractor, but I would suspect some kind of error.

Our water cleaning, maybe even vacuuming to get it to to break out the debris is in all kinds of different forms.

JM **Jeffrey McMahon** 31:08

I'm good.

Right.

DM **Dallas Montgomery** 31:14

It's in dust.

It's wet, wet, small particles.

RL **Robert Lail** 31:16

Yeah, that's.

DM **Dallas Montgomery** 31:18

Big chunky clumps and so forth, so it's a pretty varied amount of type of debris.

JM **Jeffrey McMahon** 31:27

OK.

RL **Robert Lail** 31:27

I'm done.

 **Graves, Ashley R (KYTC)** 31:44

Anymore questions?

JS **Jordan Sessa** 31:48

I I.

Well, one more question similar to the the free length repairs the connection sleeves. All the fusion couplers are being replaced, but then there's a few handful of connection sleeves that are also being replaced, but the locations aren't specified. Is that also just a contingency in case there's been significant issues since last inspection?

SR **Scott Ribble** 32:12

Yeah, that's correct.

We know that all of the the fusion couplers are are very nearly all to to just call them all.

The fusion couplers have to go, but yes, the we're not anticipating significant replacements of connection sleeves.

JS **Jordan Sessa** 32:30

Thank you.

BS **Bob Sward** 32:53

And actually in the in the previous pre bid meeting, we talked about the potential for some of the materials not being domestic and there's a requirement for. Uh by American materials is how do we deal with that if they're not available, how do we go about dealing with that?



Graves, Ashley R (KYTC) 33:13

We we would have to get it approved through through our materials division and make sure that they're on board, that there's no way to buy America so.



BS **Bob Sward** 33:24

OK.



MA **Mills, Rachel A (KYTC)** 33:29

You may want to hold up on that.

This is a federal project and I think you're gonna have to get FHWA to sign off on that. Actually.



RL **Robert Lail** 33:31

Is that?



Graves, Ashley R (KYTC) 33:38

Like before.



MA **Mills, Rachel A (KYTC)** 33:39

Uh, yes.

You may verify you you need to verify that.



Graves, Ashley R (KYTC) 33:47

OK.



MA **Mills, Rachel A (KYTC)** 33:47

Before you get it possible mass.



Graves, Ashley R (KYTC) 33:51

I I mean what I guess how how can we?

MA **Mills, Rachel A (KYTC)** 33:54

We can talk about it, but we can talk about it later.
I don't know what materials that they are referring to, but.
I'm somewhat familiar with the Bommer.
That's stuff so and that that could be an issue.

RL **Robert Lail** 34:05

Here.

 **Graves, Ashley R (KYTC)** 34:06

Yeah.

BS **Bob Sward** 34:11

OK, OK.

 **Graves, Ashley R (KYTC)** 34:14

And he knows specifically.
Like, do you have an item that you know specifically?
Would be hard to get.

BS **Bob Sward** 34:20

I think some of the tapes that they they use for wrapping the stays with, you know,
haven't been purchased domestically, been formed materials.
So that's the one that comes to mind.
There may be others.

MD **MICKLUS Drew** 34:40

Are there a shop drawings available so we know the dimensions of the bearing
plates?
And we have to develop a mechanical connection.
The guy pipes that's going to be a very significant.
Connection because the loads imposed by the day.
And in that same consideration, has has the engineer analyze the ability that Shark

fan to be able to take the transversal then from the damper and fatigue and looks it looks questionable at the least.

SR **Scott Ribble** 34:59

Now.

In terms of shop drawings, there's unfortunately not a lot in the way of shop drawings.

Believe whatever we have available be available to to the bidders.

We could be made available, but unfortunately we do not have comprehensive shop drawings.

Dallas, do you want to discuss the damper question?

MT **Mathews, Tom T (KYTC)** 35:35

All this.

This is Tom Matthews.

RL **Robert Lail** 35:35

Look.

MT **Mathews, Tom T (KYTC)** 35:36

The the existing plans are all posted on project related information for this.

DM **Dallas Montgomery** 35:46

OK.

What was the other question?

MD **MICKLUS Drew** 35:55

Or shall drive the variable for the for the the details and around the state cables.

So the sizes of electrofusion couplers, for example, and.

Or is that information only only available to the the the provider the system originally?

DM **Dallas Montgomery** 36:08

It.

There are.

There are some shop drawings. Umm.

RL **Robert Lail** 36:16

No.

DM **Dallas Montgomery** 36:17

Available, but it's it's pretty slim pickings.

They're not very extensive.

RL **Robert Lail** 36:22

OK.

MD **MICKLUS Drew** 36:43

But does anyone know has it?

Has that shark pin been analyzed for resistance or damper loads, especially out of plane downloads that there's?

It's gonna be very, very high fatigue bending stresses in that in that shark fan without any kickstand or any external support.

DM **Dallas Montgomery** 37:06

That's why in the plant the schematic, you'll see that the existing guide pipe is to have a new guide pipe.

RL **Robert Lail** 37:09

Yeah.

DM **Dallas Montgomery** 37:17

This is envision that you have the that will have to be fabricated and put in place to handle those additional loads in all directions.

RL **Robert Lail** 37:19

That.

MD **MICKLUS Drew** 37:30

The guy by my bill to take it, but it's transferring a load to just a single plane of steel extension of the web.

It has no level fitness.

And less than a message, clear that you only want to dampen plane in plane vibrations, but the cables you can't ask it to to only only vibrate in One Direction and moving all directions.

The wind blows sideways.

DM Dallas Montgomery 37:58

Uh, there are internal dampeners on cinema bridges that can handle leave movement in all directions.

RL Robert Lail 38:10

OK.

DM Dallas Montgomery 38:12

This is a V SL200 design. Uh.

Uh hardware.

So we've checked out you can you, it is quite possible to to fabricate a internal damage that will handle it in all directions.

RL Robert Lail 38:23

Speak.

MD MICKLUS Drew 38:36

No problem with the damper, it's just just the structure.

And then we did the the, the RV project and the similar arrangement and they were very significant kickstands to to take that load in the uh, in the shotgun, the shotgun loan is not gonna handle it.

BS Bob Sward 38:57

I mean, right, right.

Now the way the damper works on the end of the guide pipe, it takes that it takes that lateral load.

That's for PTI.

You need direction.

So that's already got to be transmitted to the shark fin.

MD MICKLUS Drew 39:24

And what type of damper is there now?

Because it looks like it's just a a new.

BS Bob Sward 39:28

Yeah.

It's just to me, a pretty ring.

It's just it's it's.

It's forcing the bending to happen at the end of the guide pipe so that there's only tension back at the anchor itself.

MD MICKLUS Drew 39:40

Now you're going to pose a much larger load.

BS Bob Sward 39:43

It depends on the damper you use.

MD MICKLUS Drew 39:45

A very significant distance away from that anchor that's going to put a switching the transversal direction.

BS Bob Sward 39:51

And it depends on the damper you use.

MD MICKLUS Drew 39:55

Umm.

Nap in the state you needed from.

Apply a force.

Yeah, well, some of the questions in writing let's.

 **Graves, Ashley R (KYTC)** 40:09

Yeah, that will be a probably good.

MD MICKLUS Drew 40:11

Sir.

Thanks.

 **Graves, Ashley R (KYTC)** 40:37

Any more questions?

MT Mathews, Tom T (KYTC) 40:42

Actually, this is Tom Matthews back again.

I located the shot three sets of shop drawings on this, and we'll have those posted on project related information later today.

RL Robert Lail 40:47

User.

 **Graves, Ashley R (KYTC)** 40:52

OK.

More questions?

If there's no more questions I could think we will.

Look at bringing this to a close.

Alright.

Appreciate you all at attention and and the manner in which you asked the questions.

And we for those showing up at the site visit, be sure and bring your PPE and I'll I'll see you then.

Thank you everyone.

RL Robert Lail 42:13

OK.

BS Bob Sward 42:14

Thank you.

SM **SMITH Matthew** 42:16
Thank you.

MD **MICKLUS Drew** 42:16
Right.

 **Johnson, Eathan D (KYTC-D02)** left the meeting

JS **Jordan Sessa** 42:17
Thank you.

RL **Robert Lail** 42:17
Thanks.

 **Jeffrey McMahon** left the meeting

 **Bob Sward** left the meeting

 **Morgan, Lonnie D (KYTC)** left the meeting

 **Becky Smith** left the meeting

 **Judy C Harp Co - Sara Jones** left the meeting

 **SMITH Matthew** left the meeting

 **Scott Greenhaus** left the meeting

 **Brandon Hinson** left the meeting

 **Miracle, Donnie R (KYTC)** left the meeting

 **MICKLUS Drew** left the meeting

 **Jordan Sessa** left the meeting

 **Baron, Michael** left the meeting

 **Caleb Hurst** left the meeting

 **Goad, Tyler T (KYTC-D02)** left the meeting

 **Byron Ogger** left the meeting

 **Chinmay Modi** left the meeting

 **Mathews, Tom T (KYTC)** left the meeting

 **Robert Lail** left the meeting

 **Dallas Montgomery** left the meeting

 **Crawford, Randy E (KYTC)** left the meeting

 **Mills, Rachel A (KYTC)** left the meeting