## UNDERGROUND MATERIALS AND METHODS SUBCOMMITTEE <br> September 19, 2023 <br> 11:00 a.m. <br> Via Microsoft Teams

1. Call meeting to order
a.
2. Self-introduction
a. Brooks Ryan - Unibel
b. Colin McCarter - LACDPW
c. David Badgley - Performance Pipeline Tech
d. David Wangerin - EJ
e. Dickie Fernandez - OCSD
f. Mark Giljum - LACSD
g. Jacob Monroe - ADS
h. Jamie Lienberger - Lienberger \& Associates
i. Jeff Boschert - NCPI
j. Jensen Lee - City of SD
k. Anh Nguyen - City of SD Public Util. Dept.
3. Gean Na - ACPA
m. Jacquie J. - Sekisui
n. Raffie Yeremian - AGC/Bali Construction
4. Meeting minutes: http://www.greenbookspecs.org/minutes.asp
a. August meeting minutes to be modified, removing 30-day hold texts for 329, 330, 331. Minutes approved as modified by $\mathrm{DB} / \mathrm{JL}$
5. Announcements, Correspondence and Summary of GB meetings
a. Greenbook retention -
b. AWPA So Cal Golf Tournament.
6. Old Business
a. 284UM Part 5
i. Review Draft
ii. DF hopeful that at least (1) agency thoroughly review the draft. GN agrees.
iii. Ahn - SD, will need to take a close look at this, ops/contract team. Catherine Dungca - requesting time to review the draft.
iv. GN to share editorial committee correspondence to Catherine Dungca.
v. Colin McCarter/LACDPW recommends eliminating 500-14.d due to conflict with measurement of cubic yards, and payment in Contract Unit Price.
b. 329UM Table 306-7.8.3.2 SDR 35 (Kent Carlson)
i. On Hold
ii. Discussion with Jeff Boschert/NCPI. Presented a 1 page word document with ASTM references. Discussion to clarify that internal diameter should be referenced from 'base' ID, and not average ID.
c. 330UM Mandrel (Kent Carlson)
i. On Hold
d. 331UM 11month Warranty footnote to Table 306-7.8.3.1 (Kent Carlson)
i. On Hold
e. 332 UM 216-7 Causes for Rejection of PRCB (216-7 (Gean Na)
i. Editorial Committee Review
7. New Business

Next Meeting: October 17, 2023

1. Summary

Meeting tit Greenbook Underground Subcommittee - Materials \& Methods
Attended p 16
Start time 9/19/23, 10:48:49 AM
End time 9/19/23, 1:05:55 PM
Meeting dı 2 h 17 m 5 s
Average at 1 h 27 m 47 s

## 2. Participants

Name First Join Last Leave In-Meeting Email Participant Role Gean Na 9/19/23, 1(9/19/23, 1:1h 47m 28؛ gna@greer gna@greer Organizer Jamie Lient 9/19/23, 1 (9/19/23, 1:2h 15m 27؛ jamielienb f jamielienb Attendee Jeff Bosche 9/19/23, 1(9/19/23, 1:1h 35m 40s Presenter Jacob Moni 9/19/23, 1 (9/19/23, 1:1h 34m 43؛ Jacob.Mon Jacob.Mon Attendee Fernandez, 9/19/23, 1(9/19/23, 1:1h 34m 15؛ bfernandez bfernandez Attendee Nguyen, Ar 9/19/23, 1(9/19/23, 1:1h 6m 13s ANguyen@ ANguyen@ Attendee Lee, Jenser 9/19/23, 1:9/19/23, 1:1h 33m 33؛ JWLee@sal JWLee_san Attendee Jacob Moni 9/19/23, 1:9/19/23, 1:1h 30m 21: Jacob.Mon Jacob.Mon Attendee David Wan:9/19/23, 1:9/19/23, 1:1h 33m 20؛ David.Wan David.Wan Attendee Colin McCa 9/19/23, 1:9/19/23, 1:1h 3m 48s CMCCARTE CMCCARTE Attendee David Badg 9/19/23, 1:9/19/23, 1:1h 34m 40s

0:0:0.0 --> 0:0:1.760
Gean Na
OK, alright, good morning, everyone.
0:0:1.770 --> 0:0:7.120
Gean Na
This is the Green Book Underground Subcommittee meeting today is September 19th.
0:0:8.30 --> 0:0:8.920
Gean Na
It's 1103.
0:0:10.950 --> 0:0:14.990
Gean Na
I wanna welcome everybody I a few new people so.
0:0:16.980 --> 0:0:18.390
Gean Na
We'll do self introductions.
0:0:18.400 --> 0:0:19.690
Gean Na
I'll go top down.
0:0:19.820 --> 0:0:20.810
Gean Na
Call you guys out.
0:0:20.820 --> 0:0:22.190
Gean Na
Please just respond.
0:0:22.200 --> 0:0:22.990
Gean Na
Confirm you're there.
0:0:23.0 --> 0:0:29.340
Gean Na
Make sure your mic is working and just let us know which organization that you're with and we'll start with Brooke Ryan.

0:0:33.650 --> 0:0:34.200
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
Hi everyone.
0:0:34.210 --> 0:0:34.960
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
My name is Brooks.

0:0:34.970 --> 0:0:36.850
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
I'm with the PVC pipe association.
0:0:38.100 --> 0:0:39.90
Gean Na
Yeah, I brooks.
0:0:39.620 --> 0:0:40.320
Gean Na
Calling mecarter.
0:0:41.910 --> 0:0:44.40
Colin McCarter
Or Gene, Colin MCCARTER, Ellie County Public works.
0:0:45.420 --> 0:0:46.30
Gean Na
David Badgley.
0:0:47.570 --> 0:0:52.480
David Badgley
They badgley performance pipeline technologies and badgley and associates.
0:0:54.930 --> 0:0:55.860
Gean Na
Uh, David wangerin.
0:0:57.230 --> 0:0:58.680
David Wangerin
Uh David Wangerin egg J.
0:0:59.600 --> 0:1:0.260
Gean Na
Dickie Fernandez.
0:1:1.360 --> 0:1:3.450
Fernandez, Dickie
They keep another range county sanitation district.
0:1:4.200 --> 0:1:4.660
Gean Na
Mark giljum.
0:1:6.50 --> 0:1:9.310
Giljum, Mark
Mark Giljum, LA County Sanitation District sewer design.

0:1:11.20 --> 0:1:11.960
Gean Na
Uh, Jacob?
0:1:13.980 --> 0:1:16.510
Jacob Monroe
Hey, good morning, Jane, Jacob Monroe, advance drainage systems.
0:1:17.280 --> 0:1:18.440
Gean Na
Uh, Jamie lienberger.
0:1:19.930 --> 0:1:21.850
Jamie Lienberger
Jamie Lienberger Lienberger and associates.
0:1:22.670 --> 0:1:25.610
Gean Na
Lienberger Anderson, it's.
0:1:27.30 --> 0:1:27.700
Gean Na
Death.
0:1:27.790 --> 0:1:28.480
Gean Na
********.

0:1:28.650 --> 0:1:29.720
Gean Na
Hopefully I pronounce that right.
0:1:30.130 --> 0:1:30.940
Jeff Boschert
And your clothes?
0:1:32.530 --> 0:1:33.90
Gean Na
Box. Shirt.
$0: 1: 31.10-->0: 1: 33.640$
Jeff Boschert
Jeff Boshart and with national Clay Pipe Institute.
0:1:37.540 --> 0:1:37.880
Gean Na
Uh.

0:1:39.620 --> 0:1:40.130
Gean Na
Jensen, Lee.
$0: 1: 41.300$--> 0:1:43.0
Lee, Jensen
Jensen Lee, City of San Diego.
0:1:45.790 --> 0:1:46.410
Gean Na
And when?
0:1:47.100 --> 0:1:50.100
Nguyen, Anh
On when City of San Diego Public utility department.
0:1:55.600 --> 0:1:55.980
Gean Na
OK.
0:1:55.990 --> 0:1:56.900
Gean Na
Is there anyone that I missed?
0:2:3.130 --> 0:2:3.680
Gean Na
OK.

0:2:4.810 --> 0:2:10.270
Gean Na
Moving on to meeting minutes, I did check that the meeting minutes were posted for August.
0:2:10.280 --> 0:2:11.270
Gean Na
Thank you, Jamie, for that.
0:2:12.290 --> 0:2:12.650
Jamie Lienberger
Umm.

0:2:13.50 --> 0:2:15.80
Gean Na
Let me share that with you guys.
0:2:24.170 --> 0:2:24.790
Gean Na
Share that.

0:2:37.480 --> 0:2:39.210
Gean Na
OK, this is the August meeting minutes.
0:2:39.660 --> 0:2:42.780
Gean Na
Um, Jamie, I'm not sure when these are posted.
0:2:43.480 --> 0:2:44.350
Gean Na
Either way, thank you.
0:2:44.540 --> 0:2:52.930
Gean Na
Ohh, just wanted to see if there's any adjustments that you need to make this code for the entire group.
0:2:53.300 --> 0:2:54.170
Gean Na
This was kind of an.
0:2:55.560 --> 0:2:56.660
Gean Na
Dialogue format.
0:2:59.290 --> 0:3:3.890
Gean Na
I know we voted on moving the one of the changes forward.
0:3:6.880 --> 0:3:8.490
Gean Na
This was 332.
0:3:8.700 --> 0:3:10.520
Gean Na
This is moved, moved on to editorial.
0:3:11.610 --> 0:3:13.970
Gean Na
Uh, I believe everything else was discussion.
0:3:18.200 --> 0:3:21.940
Gean Na
And then we have 329 to be voted on to the 329 .
0:3:25.760 --> 0:3:26.730
Gean Na
That was on hold.

0:3:26.860 --> 0:3:29.590
Gean Na
So, Jamie, I'm gonna have to modify this.
0:3:29.680 --> 0:3:30.210
Gean Na
I don't.

0:3:33.110 --> 0:3:35.440
Gean Na
These items were put on hold, but not as 30 day.
0:3:35.450 --> 0:3:36.320
Gean Na
Hold to be voted on.
0:3:37.440 --> 0:3:38.110
Jamie Lienberger
Ohk OK.
0:3:40.210 --> 0:3:40.940
Gean Na
Yeah.
0:3:41.380 --> 0:3:42.170
Jamie Lienberger
That should OK.
0:3:40.990 --> 0:3:42.680
Gean Na
So I'm gonna leave a note here.
0:3:55.890 --> 0:3:58.520
Gean Na
Uh, but we could vote on to pass these minutes.
0:3:59.10 --> 0:4:7.50
Gean Na
What I'm gonna be doing modifying these guys is these three changes were asked to be on hold by Kent Carlson.

0:4:8.450 --> 0:4:12.630
Gean Na
I did review the transcript that Microsoft team automatically.
0:4:13.750 --> 0:4:14.980
Gean Na
Uh generates for us.

0:4:15.950 --> 0:4:29.710
Gean Na
So he did ask to put them on hold and there was discussion at the main committee meeting where he asked that did not be cancelled but put on hold to be discussed at a later time.

0:4:30.860 --> 0:4:34.850
Gean Na
And just for clarification, this is not on a 30 day hold per vote?
0:4:35.160 --> 0:4:41.440
Gean Na
He asked that it just be put on hold, so I'm gonna be modifying and getting rid of the 30 day text here.
0:4:43.520 --> 0:4:46.640
Gean Na
Aside from that, are there any other changes from last month's meetings?
0:4:54.720 --> 0:5:0.320
Gean Na
OK, hearing none, is there a motion to approve the meeting minutes for August as modified?
0:5:2.630 --> 0:5:3.420
David Badgley
This day. Bad.
0:5:3.430 --> 0:5:5.180
David Badgley
So you've moved move forward?
0:5:7.690 --> 0:5:7.980
Gean Na
OK.
0:5:7.990 --> 0:5:8.430
Gean Na
Thank you.
0:5:8.440 --> 0:5:9.930
Gean Na
Anyone support that in second?
0:5:13.670 --> 0:5:15.120
Jamie Lienberger
I'll second it as Jamie.
0:5:16.230 --> 0:5:16.580
Gean Na
OK.

0:5:16.590 --> 0:5:19.870
Gean Na
And Jamie, you only have the 30 day references to 329 .
0:5:21.640 --> 0:5:22.640
Jamie Lienberger
And yeah.
0:5:19.990 --> 0:5:26.70
Gean Na
Ohh and 3:31 I see what you did there 32933331.
0:5:30.800 --> 0:5:31.120
Gean Na
OK.
0:5:44.530 --> 0:5:45.390
Gean Na
OK, OK.
0:5:45.400 --> 0:5:45.870
Gean Na
Get out of here.
0:5:48.0 --> 0:5:50.300
Jeff Boschert
Hey, Gene, that's this is Jeff Bosher.
0:5:50.340 --> 0:5:50.520
Gean Na
Yep.
0:5:50.310 --> 0:5:52.880
Jeff Boschert
That's all three of Kent proposals, right?
0:5:52.890 --> 0:5:53.940
Jeff Boschert
All three are on hold.
0:5:53.950 --> 0:5:56.120
Jeff Boschert
They're not a 30 day vote hold, but they're just on hold.
0:5:56.130 --> 0:5:56.640
Jeff Boschert
Is that correct?

0:5:57.570 --> 0:5:58.370
Gean Na
That's right.
0:5:58.700 --> 0:5:58.940
Jeff Boschert
OK.

0:6:0.700 --> 0:6:1.20
Gean Na
Yeah.

0:6:1.30 --> 0:6:3.250
Gean Na
I mean, I like I mentioned I looked at the transcript.
0:6:3.260 --> 0:6:3.820
Gean Na
He asked that.

0:6:6.700 --> 0:6:22.380
Gean Na
He asked to cancel it at first, and then I think, um, when we had the main meeting last month on Thursday with, you know, the main committee meeting, he clarified that he wanted to just postponed the discussion.

0:6:22.840 --> 0:6:23.80
Jeff Boschert
OK.

0:6:23.820 --> 0:6:27.650
Gean Na
Umm, so yeah, it's just on hold, right.
0:6:27.660 --> 0:6:35.650
Gean Na
If he wants to continue to talk about it today, great, or if you do great, but it's we've been discussing it since the spring of this year.

0:6:36.80 --> 0:6:36.820
Jeff Boschert
Sure, sure.
0:6:38.490 --> 0:6:47.580
Gean Na
I'm happy to kind of go through a rundown with you here, but again, it's been it's been some time talking about these three things.

0:6:47.870 --> 0:6:48.290
Jeff Boschert
Understand.
0:6:49.380 --> 0:7:1.620
Gean Na
OK, moving on here for announcements, correspondence, summary of GREENBOOK meetings, I I do wanna start by sharing a bit what's going on at the main committee meeting.

0:7:3.320 --> 0:7:7.130
Gean Na
I I think one of the most interesting topics is the greenbook retention.
0:7:7.880 --> 0:7:15.270
Gean Na
I personally am not exactly sure what's happening and there there doesn't seem to be too much activity.
0:7:16.120 --> 0:7:22.850

## Gean Na

Does anyone want to weigh in on what they think's going to happen with that topic with FHWA?
0:7:22.860 --> 0:7:24.370
Gean Na
Cal Trans and greenbook.
0:7:24.960 --> 0:7:36.220
Gean Na
I believe it's going to happen where FHW Caltrans is going to lay down the rules and say all highway jobs must use altran standards.

0:7:37.220 --> 0:7:37.550
Gean Na
There's.
0:7:37.560 --> 0:7:41.310
Gean Na
Is there anyone else here that's involved that knows anything different?
0:7:43.710 --> 0:7:49.500
Jamie Lienberger
I attend the meetings when I'm able to, and that's pretty much a consensus that I have.
0:7:49.770 --> 0:7:52.790
Jamie Lienberger
I just that was somebody was reaching out.
0:7:53.330 --> 0:8:0.300
Jamie Lienberger

Uh, I sound like a gossip monger, or somebody was reaching out to somebody's brother, cousin, uncle to discuss something that was gonna happen.

0:8:0.310 --> 0:8:1.100
Jamie Lienberger
Possibly.
0:8:1.390 --> 0:8:3.220
Jamie Lienberger
Um, yeah.
0:8:3.230 --> 0:8:4.70
Jamie Lienberger
So we're just waiting.
0:8:5.90 --> 0:8:5.320
Gean Na
Umm.
0:8:5.340 --> 0:8:6.220
Jamie Lienberger
Who was that?
0:8:6.230 --> 0:8:8.380
Jamie Lienberger
Somebody was reaching out to.
0:8:11.210 --> 0:8:11.850
Gean Na
OK.
0:8:11.900 --> 0:8:12.130
Gean Na
Yeah.
0:8:12.140 --> 0:8:12.600
Gean Na
Thanks, Jimmy.
0:8:12.610 --> 0:8:12.850
Gean Na
Yeah.
0:8:12.860 --> 0:8:13.350
Gean Na
I just.

0:8:14.330 --> 0:8:14.740
Jamie Lienberger
But yeah.
0:8:23.0 --> 0:8:23.160
Jamie Lienberger
No.
0:8:14.40 --> 0:8:29.180
Gean Na
I get the feeling that we're not fighting it as hard as we were earlier this summer or spring, so I'm kind of just waiting to see if some big news and and I'll share when there is big news with you guys if you guys are hearing it yourself, they're very interesting topic.

0:8:31.250 --> 0:8:42.870
Gean Na
We are coming close to the end of the year, after this month, there is going to be October N2, more meetings for this year and typically December we go dark.

0:8:42.880 --> 0:8:48.660
Gean Na
That includes this group and the main committee, and the hope is everything that we have on our docket gets done.

0:8:49.720 --> 0:8:58.760
Gean Na
Umm, so we have a handful of things on our plate right now and the main item is 284 , which is the part 5 change.

0:8:58.770 --> 0:9:7.10
Gean Na
So I'll I'll give you guys a deeper update on what's going on there, but the hope is that we have everything complete that we can complete.

0:9:8.780 --> 0:9:9.60
Gean Na
OK.
0:9:9.70 --> 0:9:10.780
Gean Na
Is there anything else you guys wanna share?
0:9:10.790 --> 0:9:12.120
Gean Na
Uh, just opening the floor up.

0:9:12.130 --> 0:9:19.450
Gean Na
Any announcement, any conferences or any interesting technical presentations you guys wanna share before we get into old business?

0:9:26.530 --> 0:9:30.120
Gean Na
Of I know APWA is having their golf tournament next Friday.
0:9:32.70 --> 0:9:33.980
Gean Na
That's the APWA Southern California.
0:9:34.20 --> 0:9:37.300
Gean Na
They've shared that invitation to Greenbook as well, so that's happening.
0:9:38.340 --> 0:9:38.700
Gean Na
Uh.
0:9:38.710 --> 0:9:39.820
Gean Na
Anything else he does wanna share?
0:9:46.500 --> 0:9:46.780
Gean Na
OK.
0:9:50.470 --> 0:9:52.200
Gean Na
All right, getting into old business.
0:9:52.240 --> 0:9:52.770
Gean Na
Uh light?
0:9:52.780 --> 0:9:56.160
Gean Na
I don't \#5 for change 284.
0:9:56.230 --> 0:10:0.440
Gean Na
I did circulate a draft of that was dated August.
0:10:0.500 --> 0:10:0.870
Gean Na
Just.

0:10:2.910 --> 0:10:4.470
Gean Na
Uh, what's your version is this?
0:10:7.120 --> 0:10:8.690
Gean Na
This was dated August.
0:10:8.860 --> 0:10:11.660
Gean Na
The can't find my documents here.
$0: 10: 12.930-->0: 10: 14.180$
Gean Na
Yeah, mid August let's say.
0:10:17.600 --> 0:10:18.770
Gean Na
August 18th.

0:10:19.140 --> 0:10:21.710
Gean Na
I'm hoping you guys got a chance to review it.
0:10:22.440 --> 0:10:23.860
Gean Na
I do wanna share that.
0:10:25.940 --> 0:10:32.830
Gean Na
I've already sent this to editorial to get them to concurrently review it as we are finalizing our review of it as well.

0:10:33.710 --> 0:10:43.90
Gean Na
Uh, be and I was very eager to get this thing done as well, and so they've been supporting this, getting there kind of editor to look at it as well.

0:10:43.100 --> 0:10:46.100
Gean Na
So kind of it's going in parallel.
0:10:46.470 --> 0:10:47.960
Gean Na
It's our groups wrapping up.

0:10:47.970 --> 0:10:52.870
Gean Na
We have editorial getting an early start and BNI is supporting it.
0:10:53.800 --> 0:10:57.890
Gean Na
And um, I I spoke to bill a couple times this week.

0:10:57.900 --> 0:11:1.100
Gean Na
He speaking to Lance as well to make sure he's aware of it.
0:11:1.840 --> 0:11:3.720
Gean Na
So everyone wants to get this thing done.
0:11:4.560 --> 0:11:11.240
Gean Na
We've been working on this for 10 years plus and it's it started, it died.
0:11:11.250 --> 0:11:16.160
Gean Na
It's come back and I I do believe that we can get this thing done.
0:11:16.330 --> 0:11:19.160
Gean Na
So I do wanna spend time today and look at it with you guys.
0:11:20.240 --> 0:11:31.90
Gean Na
Um and and still give this group an an opportunity to continue to review on your own, but really we're at a point right now to just get this thing done from an editorial perspective.

0:11:31.950 --> 0:11:45.790

## Gean Na

Of technically speaking, we've had our chance to look at these things and receive comments, and so I would say it's now is not the time to go and say we need to go introduce new technologies and new methods etcetera, etcetera.

0:11:46.300 --> 0:11:50.200
Gean Na
We need to wrap this thing up and put our editorial hats on and get this thing done.
0:11:52.790 --> 0:11:54.300
Gean Na
So that's kind of where we are at.

0:11:56.310 --> 0:11:59.370
Gean Na
I have not received any comments from one.
0:11:59.380 --> 0:12:0.910
Gean Na
This was circulated back in August.
0:12:2.70 --> 0:12:2.480
Gean Na
Uh.
0:12:2.490 --> 0:12:5.470
Gean Na
Does did anyone not get it that was hoping to receive it?
0:12:6.530 --> 0:12:6.990
David Badgley
The.
0:12:9.500 --> 0:12:11.790
Gean Na
OK , not hearing anything which is a good thing.
0:12:11.800 --> 0:12:21.60
Gean Na
So let me share the document with you guys and I do wanna lock walk everyone through it and and obviously it would take hours to go through it line by line.

0:12:21.70 --> 0:12:24.70
Gean Na
But I wanna at least look at it from a height and middle level perspective.
0:12:34.290 --> 0:12:35.710
Gean Na
Uh, not gonna trying to share.
0:12:39.680 --> 0:12:41.70
Fernandez, Dickie
Gean while you look for the document.
0:12:42.190 --> 0:12:42.360
Gean Na
Uh.
0:12:42.370 --> 0:12:43.560
Gean Na
Here we are, yeah.

0:12:43.650 --> 0:12:48.490
Fernandez, Dickie
The the one comment I wanted to make since this is a big change that we're making.
0:12:49.990 --> 0:12:50.210
Gean Na
Umm.
0:12:50.860 --> 0:12:58.790
Fernandez, Dickie
Umm, I just wanna make sure that the the document has been already reviewed by at least one agency.
0:12:59.690 --> 0:13:7.310
Fernandez, Dickie
Umm to make sure that you know that we're we're publishing something that's gonna be supported by the agencies.

0:13:11.860 --> 0:13:13.230
Gean Na
Yeah, I appreciate that comment.
0:13:13.240 --> 0:13:14.600
Gean Na
And I couldn't agree with you more.
0:13:14.610 --> 0:13:17.270
Gean Na
And I I would say it should be more than one agency.
0:13:17.340 --> 0:13:18.630
Gean Na
You know, this is a.
0:13:23.140 --> 0:13:23.340
Fernandez, Dickie
Yeah.
0:13:18.700 --> 0:13:26.900
Gean Na
This is a part that many people use, especially the more developed agencies. So I I couldn't agree with you more.

0:13:28.210 --> 0:13:29.580
Gean Na
Uh, I'll.

0:13:29.590 --> 0:13:34.870
Gean Na
I'm gonna echo your same comments this Thursday and asked that they get involved.
0:13:36.530 --> 0:13:39.880
Gean Na
Little bit concerning that I have not received anything in this past month.
0:13:40.990 --> 0:13:41.230
Gean Na
Uh.
0:13:41.240 --> 0:13:43.310
Gean Na
Nor today nor right now.

0:13:43.380 --> 0:13:43.620
Gean Na
Right.
0:13:45.460 --> 0:13:50.340
Gean Na
So I'll ask again if any other agencies got a chance to look at it. Umm.
0:13:50.380 --> 0:13:50.940
David Badgley
But this is.

0:13:50.400 --> 0:13:56.960
Fernandez, Dickie
So I I started looking at it and I have to do this on my on my free time, which I'm I'm willing to do.
0:13:59.820 --> 0:14:6.90
Fernandez, Dickie
I just think that there's a benefit to getting a few folks involved and having.
0:14:8.30 --> 0:14:13.510
Fernandez, Dickie
You know, maybe two meetings and and make sure that we don't see any fatal flaws.
0:14:14.200 --> 0:14:14.440
Gean Na
Umm.

0:14:17.360 --> 0:14:17.590
David Badgley
Yeah.

0:14:17.600 --> 0:14:18.390
David Badgley
This is Dave.
$0: 14: 18.400-->0: 14: 24.860$
David Badgley
On each of the separate sections that we had agency people as well as as technical people.
0:14:25.690 --> 0:14:26.180
David Badgley
Uh.

0:14:26.370 --> 0:14:32.50
David Badgley
Involved in those and then those went through the review at that time.
0:14:32.300 --> 0:14:39.590
David Badgley
And then we, you know, within the last year here, we've combined them all into to one separate thing.
0:14:39.600 --> 0:14:40.880
David Badgley
And so we've gone through that.
0:14:42.360 --> 0:14:42.640

## Fernandez, Dickie

It.
0:14:41.660 --> 0:14:50.840
David Badgley
Uh, you cursor going through some of this stuff so, but the agency people have been involved in this committee has to each section.

0:14:50.580 --> 0:14:52.260
Fernandez, Dickie
Are those people here in this meeting today?
0:14:54.240 --> 0:14:56.810
David Badgley
Uh, the I don't remember.
0:14:56.820 --> 0:15:0.770
David Badgley
I'd have to look back through to see we had LA County, San was, yeah.
0:15:0.780 --> 0:15:2.50
David Badgley
Was instrumental on it.

0:15:2.260 --> 0:15:3.610
David Badgley
Each of them was led by.
0:15:2.680 --> 0:15:3.640
Jamie Lienberger
Collins in the room.
0:15:11.30 --> 0:15:11.330
Fernandez, Dickie
OK.
0:15:3.900 --> 0:15:12.460
David Badgley
Each was led by a A by an agency person, except for a couple level.
0:15:13.840 --> 0:15:15.320
Fernandez, Dickie
So calling you were involved in.
0:15:16.900 --> 0:15:22.890

## Colin McCarter

I was involved mainly with the Spiral Lounge task force back in the when when this was all coming together in the first place.

0:15:23.700 --> 0:15:24.330
Fernandez, Dickie
OK.
0:15:24.570 --> 0:15:25.600
Fernandez, Dickie
Well, that makes me feel better.
0:16:2.640 --> 0:16:2.940
Fernandez, Dickie
OK.
0:15:24.720 --> 0:16:4.830
David Badgley
And then you stand up involved in the slip lining sections for large diameter pipe and uh and the LA City was involved in the cured in place section and and that the one person that we had that was was doing it was from for fold and form and and I think they did PVC or HDPE they dropped out they got a different job and so I ended up taking that over and putting it together with with with different people.

0:16:7.760 --> 0:16:8.450
Gean Na
Yeah.

0:16:6.760 --> 0:16:9.630
Fernandez, Dickie
Alright, so that that makes me feel a little better.
0:16:8.460 --> 0:16:10.870
Gean Na
Dickie, I. Yeah.
0:16:10.880 --> 0:16:11.70
Gean Na
Me.
0:16:11.110 --> 0:16:12.610
Gean Na
Me too, Dickie.
0:16:12.620 --> 0:16:14.270
Gean Na
I really do appreciate your comments on this.
0:16:14.280 --> 0:16:30.740
Gean Na
I I do wanna kind of share with everyone here a little bit about the history on change 284 and I asked a handful of questions to people including Eric Updyke who but kind of originated this with Dave years ago.

0:16:31.200 --> 0:16:31.320
David Badgley
Yeah.
0:16:30.890 --> 0:16:37.380
Gean Na
So this change request is, is, is, is really old and like I mentioned earlier, it started and then it kind of just died off.

0:16:37.950 --> 0:16:43.520
Gean Na
I spoke to Bill Mahoney about it and asked him, like, what happened 10 years ago, because it had appeared to be done at the time.

0:16:43.530 --> 0:16:48.690

## Gean Na

But what I heard from Bill was it was quote unquote done, but nothing was complete.
0:16:48.700 --> 0:17:0.910
Gean Na
And then Anthony Howard came to one of the underground subcommittee meetings and and and made the suggestion that this thing be pretty much overhauled and be reorganized.

0:17:0.920 --> 0:17:2.610
Gean Na
And so that is what we did here.
$0: 17: 3.520-->0: 17: 16.630$
Gean Na
We reorganize it so that there's common technologies kind of in the same sections, whereas in the past there were similar technologies all over the place in Part 5, so it was very difficult to find things.

0:17:16.640 --> 0:17:40.920
Gean Na
So we did mainly what Anthony Howard suggested, which is of course it was a good suggestion of a little bit more about the history like Colin was describing when Dave kicked this off, we broke this off into different task groups or smaller committees to work on things because it was, there were so many different technologies and methods and whatnot.

0:17:41.30 --> 0:17:56.90

## Gean Na

So there was a mixture of agencies and industry working on select task groups and I believe there was, you know, four or five different ones and then they worked on their own and they came back and submitted everything back to David.

0:17:56.620 --> 0:18:1.600
Gean Na
And then so here now, years later, we have a A, a newly compiled version of it.
0:18:2.810 --> 0:18:13.320
Gean Na
But I do agree with Dickie right now that it could use a few sets of eyes on it and towards the end, when we were compiling everything.
$0: 18: 14.700$--> 0:18:24.860

## Gean Na

I know Colin was involved here along with Jamie, Jackie, the two two ladies from industry calling from agency uh.

0:18:24.900 --> 0:18:26.890
Gean Na
So there could be, you know, it.
0:18:26.900 --> 0:18:32.560
Gean Na
It never hurts to have more agencies to look at it, to give a set a a clean set of eyes to look at it.
0:18:33.430 --> 0:18:34.890
Gean Na
I'm yes.

0:18:33.110 --> 0:18:35.700
Nguyen, Anh
Hey, Gene, Gene, I have a question.
0:18:35.710 --> 0:18:38.500
Nguyen, Anh
So this is on when I'm with the city of San Diego.
0:18:38.910 --> 0:18:39.120
Gean Na
Umm.
0:18:38.750 --> 0:18:45.320
Nguyen, Anh
We haven't really been involved with this process, so we're gonna probably have to relook at this.
0:18:45.490 --> 0:18:51.600
Nguyen, Anh
Really have a close look at this, so we'll probably gonna have to send it to uh.
0:18:51.610 --> 0:19:7.100
Nguyen, Anh
Some of our team, like uh, operation or even contract team to look at it before you know, we can really vote or or you know I guess get more involved with this before we can really decide on any anything here.

0:19:7.110 --> 0:19:10.20
Nguyen, Anh
So I think Kathy is also with the city.
0:19:10.30 --> 0:19:12.170
Nguyen, Anh
I think Kathy wanna speak on it.

0:19:13.40 --> 0:19:13.430
Dungca, Catherine
Yeah.
0:19:13.440 --> 0:19:15.230
Dungca, Catherine
So um gain.
0:19:15.940 --> 0:19:28.330
Dungca, Catherine
I've been with the Green Book for so many years now and I I can agree with you that somewhere in time they changes got lost with Eric, you know, originally being the chair.

0:19:28.340 --> 0:19:29.990
Dungca, Catherine
I think so.
0:19:30.440 --> 0:19:44.190
Dungca, Catherine
I I think if we have if we're giving a good enough time to review this in detail at the City of San Diego, would be willing to cooperate and send you are proposed.

0:19:45.180 --> 0:19:49.300
Dungca, Catherine
Uh, changes that will be affecting all other agencies.
0:19:49.310 --> 0:19:51.420
Dungca, Catherine
That's what I'm thinking, right?
0:19:51.110 --> 0:19:58.660
Jamie Lienberger
Uh, I I hate to be the one that states the obvious, but we've had 30 days to look at.
0:19:58.670 --> 0:20:0.140
Jamie Lienberger
This are you telling me?
0:20:0.150 --> 0:20:5.60
Jamie Lienberger
Nobody spent 30 days and taking 3 minutes to look over this and read this.
0:20:5.260 --> 0:20:10.470
Jamie Lienberger
And now here we are at another meeting and people are like ohh Gee, I need more time to look at it.
0:20:10.520 --> 0:20:13.330
Jamie Lienberger
I mean, come on, people, it's getting ridiculous.
0:20:13.340 --> 0:20:21.260
Jamie Lienberger
We've been at this for a decade and every time we come to a meeting, everybody's got their pants pulled down and they're like, oh, Gee, I'm not prepared.

0:20:21.270 --> 0:20:22.600
Jamie Lienberger
Gee, let me read through it.

0:20:22.610 --> 0:20:23.410
Jamie Lienberger
Let me look at it.

0:20:23.420 --> 0:20:25.250
Jamie Lienberger
Let me give it to 19 people.
0:20:25.380 --> 0:20:26.910
Jamie Lienberger
So we can talk about it.
0:20:27.340 --> 0:20:29.320
Jamie Lienberger
It is getting ridiculous.
0:20:29.950 --> 0:20:31.140
Dungca, Catherine
So I.

0:20:29.880 --> 0:20:31.990
Jamie Lienberger
I mean, Jesus criminy.
0:20:32.0 --> 0:20:33.230
Jamie Lienberger
You gotta be kidding me.
0:20:33.240 --> 0:20:34.300
Jamie Lienberger
We haven't looked at it.
0:20:34.930 --> 0:20:35.720
Dungca, Catherine
No, no, no.
0:20:35.730 --> 0:20:35.980
Dungca, Catherine
I'm.
0:20:36.50 --> 0:20:36.830
Dungca, Catherine
I'm not saying.
0:20:34.760 --> 0:20:38.710
Jamie Lienberger
Ohhh my level of frustration is staggering.

0:20:39.430 --> 0:20:39.710
Dungca, Catherine
I'm.
0:20:41.350 --> 0:20:41.770
Jamie Lienberger
Ohh.
0:20:39.720 --> 0:20:45.450
Dungca, Catherine
I'm sorry to say that, but we are in city of San Diego.
0:20:45.460 --> 0:20:53.10
Dungca, Catherine
We're experiencing a lot of failures right now and I I totally agree with you, OK.
0:20:50.640 --> 0:20:53.830
Jamie Lienberger
It's staff or pipeline and manholes.
0:20:53.840 --> 0:20:57.40
Jamie Lienberger
I mean, come on, like ah.
0:20:57.770 --> 0:20:58.140
Dungca, Catherine
Yeah.
0:20:58.110 --> 0:20:58.480
Gean Na
Book.
0:20:58.150 --> 0:21:15.420
Dungca, Catherine
So I I'm saying we're not gonna provide any changes to the specs, but our our team in our operations and maintenance need to address what they need to address as part of our supplemental special provision, which is our.

0:21:15.90 --> 0:21:15.740
Jamie Lienberger
That's why.
0:21:15.750 --> 0:21:17.920
Jamie Lienberger
That's why San Diego has a white book.

0:21:18.330 --> 0:21:18.610
Dungca, Catherine
Correct.

0:21:18.70 --> 0:21:26.380
Jamie Lienberger
That's what you can do with your white book is adjust what's in the green book, just like the city of Los Angeles uses the Brown book to adjust what's in the the Green Book.

0:21:26.590 --> 0:21:29.930
Jamie Lienberger
That's why engineers and people like me sit around and write specifications.
0:21:29.940 --> 0:21:36.990
Jamie Lienberger
We can use the Green Book or we can choose not to, but Jeepers Creepers we've had eons to review this.
0:21:38.740 --> 0:21:39.720
Dungca, Catherine
Tell me with you.
0:21:40.130 --> 0:21:49.900
Dungca, Catherine
So I I think we we we just need to spend some time on our side and and move forward with this version if we need to, that's what.

0:21:49.400 --> 0:21:50.560
Jacquie Jaques
Yeah, and.
0:21:49.390 --> 0:21:51.260
Gean Na
Yeah, Kathy, I I thank you.
0:21:51.310 --> 0:21:52.620
Gean Na
I know you're involved.
0:21:53.210 --> 0:21:55.580
Gean Na
At least you used to be involved with editorial group.
0:21:55.90 --> 0:21:57.890
Dungca, Catherine
For yeah. Uh.

0:22:0.540 --> 0:22:0.720
Dungca, Catherine
Yeah.
0:22:4.340 --> 0:22:4.480
Dungca, Catherine
Yeah.

0:22:4.800 --> 0:22:5.340
Jacquie Jaques
Hey, gene.
0:21:55.620 --> 0:22:6.80
Gean Na
I'm assuming you still are, so I think this will be good if your team looks at this and and and and it'll again, it'll make Dickie feel better and it'll feel make me feel better as well.

0:22:4.800 --> 0:22:6.490
Fernandez, Dickie
So I I I just wanna.

0:22:6.540 --> 0:22:9.270
Fernandez, Dickie
I just wanna read, restate my my comment.
0:22:9.670 --> 0:22:13.700
Fernandez, Dickie
I'm not looking to revise anything, I I fully support what Jamie stating.
0:22:14.630 --> 0:22:14.780
Dungca, Catherine
Yes.
0:22:14.850 --> 0:22:15.50
Gean Na
Mm-hmm.
0:22:14.700 --> 0:22:18.140
Fernandez, Dickie
I just wanna make sure that we don't have any fatal flaws in it.
0:22:17.780 --> 0:22:18.980
Jacquie Jaques
Hmm, right.
0:22:18.980 --> 0:22:19.210
Gean Na
Yeah.

0:22:18.890 --> 0:22:19.350
Dungca, Catherine
Exactly.
0:22:19.390 --> 0:22:20.230
Jamie Lienberger
I concur with that.
0:22:19.570 --> 0:22:21.410
Fernandez, Dickie
I I don't. Yeah.
0:22:20.950 --> 0:22:22.180
Jamie Lienberger
But the what?
0:22:22.190 --> 0:22:24.590
Jamie Lienberger
The city of San Diego just said, yeah.
0:22:24.420 --> 0:22:25.480
Fernandez, Dickie
Yeah, no.
0:22:25.630 --> 0:22:27.490
Dungca, Catherine
Yeah, I I totally agree.
0:22:27.520 --> 0:22:31.790
Dungca, Catherine
And and someone mentioned that I was part of the editorial committee.
0:22:33.820 --> 0:22:42.980
Dungca, Catherine
And and unfortunately for the past five years, I was not involved at all with the editorial because I think there was a period where there's not.

0:22:45.410 --> 0:22:45.770
Gean Na
Right.
0:22:46.560 --> 0:22:46.960
Jacquie Jaques
Umm.
0:22:43.30 --> 0:22:48.290
Dungca, Catherine
There was no meeting at all, so I I really apologize for everyone.

0:22:48.300 --> 0:23:5.730
Dungca, Catherine
I know I caused a lot of steer because in the past few months there's there was supposed to be people from our department and from PD who were supposed to be joining this meetings and reviewing every single proposed changes.

0:23:5.740 --> 0:23:23.890
Dungca, Catherine
Unfortunately, we've been bombarded with a lot of projects and high priority projects, so I I really apologize for everyone, but please move forward with whatever is being shared and I can probably be my experience with editorial.

0:23:23.900 --> 0:23:28.270
Dungca, Catherine
I can probably go over some items that could be in conflict with other sections.
0:23:28.540 --> 0:23:29.380
Dungca, Catherine
That's all I can.
0:23:30.420 --> 0:23:30.760
Jacquie Jaques
Umm.

0:23:31.30 --> 0:23:31.680
Gean Na
Yeah.
0:23:30.380 --> 0:23:32.210
Dungca, Catherine
He was talking point.
0:23:31.740 --> 0:23:38.160
Gean Na
Yeah, Kathy, I really think your time is valuable right now because I spoke to Charles Chen.
0:23:38.170 --> 0:23:40.670
Gean Na
Who's the new chair of Editorial replacing Keegan?
0:23:41.600 --> 0:23:47.130
Gean Na
And he did have a meeting last week on on his on his editorial committee.
0:23:47.580 --> 0:23:56.430
Gean Na

They unfortunately did not have time to review the change 284 and I told them it's gonna take them the whole meeting, but they don't have time.

0:23:56.560 --> 0:24:4.750
Gean Na
They have a lot on their plate, so he's actually gonna propose a special meeting either next week or the following week.

0:24:4.760 --> 0:24:12.160
Gean Na
The first week of October, just to dedicate to 284 , my ask is that you try to.
0:24:13.550 --> 0:24:14.860
Gean Na
Participate in that with him?
0:24:15.930 --> 0:24:21.680
Gean Na
Umm so I like I mentioned earlier this change 284 it's it's it's kind of happening in parallel lines.
0:24:22.210 --> 0:24:23.340
Gean Na
We're gonna wrap up here.
0:24:24.530 --> 0:24:24.840
Dungca, Catherine
OK.
0:24:24.210 --> 0:24:30.120
Gean Na
Editorial is given the green light to start their part, and B and I already started, you know, assisting.
0:24:31.520 --> 0:24:37.590
Gean Na
So yeah, Kathy, again, thank you for getting involved and getting some people from your option contracts team to get to look at this.

0:24:37.600 --> 0:24:38.210
Gean Na
It'll be good.
0:24:38.940 --> 0:24:40.500
Gean Na
The more people that look at this, the better.
0:24:38.760 --> 0:24:46.730
Dungca, Catherine

But suddenly, yeah, so they if you don't mind, can you send me the invitations to the editorial committee meetings?

0:24:47.200 --> 0:24:47.750
Dungca, Catherine
I I will.
0:24:47.760 --> 0:24:56.750
Dungca, Catherine
I will try and attend and there's someone who replace my role as a umm, you know, a voting member.
0:24:57.80 --> 0:25:3.770
Dungca, Catherine
I need to that I need to get that person involved because obviously they're the one who's gonna be updating our white food.

0:25:4.330 --> 0:25:4.530
Gean Na
Umm.
0:25:4.200 --> 0:25:6.980
Dungca, Catherine
So she's aware of the changes that need to be done in our white.
0:25:6.740 --> 0:25:7.20
Jacquie Jaques
Umm.
0:25:12.510 --> 0:25:12.930
Dungca, Catherine
Ally.
0:25:8.560 --> 0:25:18.450
Gean Na
I I believe that person was a a participant last month at the main committee meeting, so I think that's in process.

0:25:18.460 --> 0:25:21.830
Gean Na
But and I could ping lads for you, Kathy.
0:25:30.290 --> 0:25:30.510
Gean Na
OK.
0:25:22.650 --> 0:25:32.100
Dungca, Catherine

OK, so so please do I will gladly help out with whatever I can do to, you know, to review as part of the editorial committee.

0:25:33.70 --> 0:25:33.600
Dungca, Catherine
Uh.
0:25:33.870 --> 0:25:40.430
Dungca, Catherine
Membership and I'll discuss this with our, you know, counterpart in the Public Utilities Department.
0:25:42.270 --> 0:25:42.800
Dungca, Catherine
OK.
0:25:42.590 --> 0:25:42.840
Gean Na
Yeah.
0:25:42.850 --> 0:25:43.140
Gean Na
Thank you.
0:25:42.890 --> 0:25:48.690
Dungca, Catherine
Thank you everyone for giving me a chance to talk about, you know, our role in this effort.
0:25:49.630 --> 0:25:51.220
Gean Na
Yeah, they likewise.
0:25:51.330 --> 0:25:52.430
Gean Na
OK, so I'm going to.
0:25:55.690 --> 0:26:0.450
Gean Na
Shared a document right now, if you guys I guess force you guys to look at it.
0:26:2.900 --> 0:26:3.210
Gean Na
OK.
0:26:3.220 --> 0:26:4.700
Gean Na
Could you guys see this Word document?

0:26:5.730 --> 0:26:5.850
Jacquie Jaques
Yes.
0:26:6.690 --> 0:26:7.260
Gean Na
OK, great.
0:26:7.270 --> 0:26:7.740
Gean Na
Thank you.
0:26:7.750 --> 0:26:24.250
Gean Na
So I do have a red line slash struck out version um, but at BNI request I sent it to them and because there are so many changes it was quite cumbersome to see the struck out version.

0:26:24.260 --> 0:26:26.350
Gean Na
So I do have a version.
0:26:26.360 --> 0:26:39.170
Gean Na
If you guys wanted to see that struck out but more or less what you're looking at right now is the updated version and anything that has a highlight means it's either been changed or needs to be looked at.

0:26:40.300 --> 0:26:40.680
David Badgley
The.
0:26:39.360 --> 0:26:42.40
Gean Na
So I wanna tell you guys what the color scheme means.
0:26:43.120 --> 0:26:45.380
Gean Na
Umm so yellow mean it's been changed.
0:26:46.370 --> 0:26:52.770
Gean Na
Green is a reminder for us to make sure that the reference is correct, right?
0:26:52.780 --> 0:26:54.660
Gean Na
So just kind of leaving a cookie trail.

0:26:55.150 --> 0:27:3.340
Gean Na
The blue highlight means it just needs to be finalized and and there are some sections that are blue.
0:27:3.350 --> 0:27:4.710
Gean Na
I believe in the payment section.
0:27:6.10 --> 0:27:10.260
Gean Na
Uh, so again, anything that's highlighted mean it's either been changed or needs to be looked at.
0:27:10.270 --> 0:27:17.960
Gean Na
So in essence, double check anything that's highlighted, but more or less yellow means it's either moved or it's been changed.

0:27:19.160 --> 0:27:29.260
Gean Na
Um, I I I understand that if an entire, let's say paragraph is highlighted you as a reviewer might say, well, what actually changed?

0:27:29.270 --> 0:27:42.180
Gean Na
Maybe it's a word, maybe it's multiple words, so I understand it could be a little cumbersome and review, but I would say this right now from a technical perspective, we're not asking to overhaul this thing.

0:27:42.530 --> 0:27:46.340
Gean Na
We're hoping to put your editorial hat on today and make sure it works.
0:27:48.190 --> 0:27:55.80
Gean Na
The comment earlier about getting someone from the contracts world to look at it is almost perfect to make sure this would work.

0:27:55.710 --> 0:28:5.710
Gean Na
The last thing any one of us wants is a user, whether it be a project manager or a contractor, to say it doesn't work right.

0:28:5.720 --> 0:28:7.250
Gean Na
And that's the last thing that we want.

0:28:7.300 --> 0:28:13.700

## Gean Na

So, um, I think the more eyes that looks at it right now, that better as a group as a team.
0:28:14.200 --> 0:28:22.670
Gean Na
So I appreciate that, but like Jamie mentioned earlier, we're not trying to start all over and be done in 2034, right?

0:28:22.860 --> 0:28:23.210
Jamie Lienberger
Amen.
0:28:22.680 --> 0:28:25.10
Gean Na
We're trying to be done by the end of it, trying to be done.
0:28:25.20 --> 0:28:30.460
Gean Na
Now this thing is 10 years old and and 10 years from now, it probably won't get done.
0:28:30.970 --> 0:28:32.180
Gean Na
So let's get this thing done.
0:28:32.710 --> 0:28:34.290
Gean Na
So I wanna go back to the top here.
0:28:36.750 --> 0:28:40.980
Gean Na
I wanna at least show you guys the structure of part five.
0:28:41.290 --> 0:28:44.970
Gean Na
It walked through the kind of the main headings and we all.
0:28:44.980 --> 0:28:51.800
Gean Na
We won't have time to review everything in detail today, but obviously part subsection one is general.
0:28:52.210 --> 0:28:53.960
Gean Na
You can see some stuff changed here.
0:28:54.790 --> 0:28:57.900
Gean Na
Part 2, submittals and more or less.

0:28:57.910 --> 0:29:5.440
Gean Na
It's a similar to how it was in the past, but you can see the two sub headings 2.1 and two point 1 B .
0:29:6.170 --> 0:29:10.550
Gean Na
Um, that's submittals and then three is cleaning.
0:29:18.150 --> 0:29:30.920
David Badgley
One of the first things that we started with a long time ago when this first started was Nelson Nelson, who worked for Eric before he got to be Public, works director at Corona.

0:29:31.370 --> 0:29:36.380

## David Badgley

The IT was to get the update the TV specs because it's still said.
0:29:36.650 --> 0:29:37.240

## David Badgley

Yeah.

0:29:37.450 --> 0:29:38.960
David Badgley
Reel to reel tapes.
0:29:39.30 --> 0:29:39.440
David Badgley
Yahoo.
0:29:39.450 --> 0:29:40.280
David Badgley
It was, yeah.
0:29:40.320 --> 0:29:45.990

## David Badgley

So it was it was way beyond, you know, it was, you know, it was just antiquated so.
0:29:49.10 --> 0:29:49.450
Gean Na
OK.
0:29:49.460 --> 0:29:53.70
Gean Na
And then, uh, Section 4 is about pipeline.
0:29:53.80 --> 0:29:59.360
Gean Na
Trenchless point repair or replacement and I believe that's the original one and then five.

0:30:1.440 --> 0:30:4.550
Gean Na
Service connection locations, sewage bypass and pumping.
0:30:5.940 --> 0:30:11.130
Gean Na
And then we get to part 7 or subsection 7 pipeline rehabilitation systems.
0:30:11.400 --> 0:30:16.150
Gean Na
So this is the the meat and potatoes of section 500 .
0:30:16.360 --> 0:30:23.560
Gean Na
This is where the technologies that previously were scattered all over 500 are now into similar categories.
0:30:24.560 --> 0:30:38.280
Gean Na
So you have 7.1 and then you have the general submittals materials installation, inspection, acceptance, repair, measurement, payment, etcetera.

0:30:38.290 --> 0:30:49.410
Gean Na
So this uh format or structure or however you guys wanna see it is gonna be consistent for each technology, right?

0:30:49.420 --> 0:31:3.730
Gean Na
So we have that so that if there's anything unique about it, it'll have its own particular language that more or less for like submittals for example, it'll say comply with section 502.1 no additional language.

0:31:4.810 --> 0:31:13.610
Gean Na
So we try to keep it consistent and group similar technologies together so that, for example, all the CIPP technologies are adjacent.

0:31:15.330 --> 0:31:17.30
Gean Na
So if you go to 7.2.
0:31:19.640 --> 0:31:23.730
Gean Na
You will see the next um and and and also these greens.
0:31:23.740 --> 0:31:25.20
Gean Na
These are things that are missing.

0:31:25.80 --> 0:31:27.210
Gean Na
Obviously these are reminders for us.
0:31:35.190 --> 0:31:37.910
Gean Na
And here's the next section folded and reformed liners right.
0:31:37.920 --> 0:31:40.410
Gean Na
So this is, uh, another category of things.
0:31:42.860 --> 0:31:43.200
Gean Na
OK.
0:31:43.250 --> 0:31:49.430
Gean Na
Just gonna move along here, and if you're hoping I was gonna read everything today, that would take us all day.

0:31:50.250 --> 0:31:58.320
Gean Na
Don't have time for that so 7.3 you can see feasible solid wall, slipliners, annulus, grouting and then you have the different materials underneath.

0:32:4.980 --> 0:32:8.830
Gean Na
OK, this is under the same subcategory.
0:32:8.840 --> 0:32:11.620
Gean Na
That's why you see the third child 7.44.
0:32:12.500 --> 0:32:14.220
Gean Na
So it does get a little deep.
0:32:14.280 --> 0:32:22.170
Gean Na
In essence, I don't want to call it the matrix, but it gets deep into the child's and smaller child, but we try to keep everything in the same category.

0:32:25.960 --> 0:32:27.630
Gean Na
Here this was Colin section.

0:32:28.10 --> 0:32:30.60
Gean Na
This one was a lot of fun in 2020.
0:32:33.590 --> 0:32:36.340
Gean Na
Calling you and I are gonna have to have a beer or two over that one day.
0:32:37.550 --> 0:32:38.880
Gean Na
Uh, so here you could talk.
0:32:38.890 --> 0:32:39.610
Gean Na
You could see this.

0:32:42.970 --> 0:32:44.660
Gean Na
There was some things changed.
0:32:44.670 --> 0:32:46.820
Gean Na
Again, you will see some tables here that.
0:32:49.150 --> 0:32:51.830
Gean Na
David, this is kind of where I'm relying on you to wrap this up.
0:32:52.280 --> 0:32:52.480
David Badgley
Yeah.
0:32:57.450 --> 0:33:3.470
Gean Na
And I believe what I when you when I spoke to you last, you mentioned that the tables don't work and that's why you removed them.

0:33:5.600 --> 0:33:5.950
David Badgley
Right.
0:33:3.480 --> 0:33:9.350
Gean Na
But you still have this reference, so just looking for you to wrap this up and put this to bed please.
0:33:10.420 --> 0:33:11.350
David Badgley
Yep, no problem.

0:33:13.940 --> 0:33:18.100
Gean Na
OK, I'm just moving down here to the next category.
0:33:19.200 --> 0:33:24.190
Gean Na
Bill 5.6 external pipe wraps capped again.
0:33:24.200 --> 0:33:25.950
Gean Na
The different materials are listed underneath.
0:33:30.650 --> 0:33:33.160
Gean Na
And then we have.
0:33:33.170 --> 0:33:33.850
Gean Na
Wait, hold on.
0:33:33.900 --> 0:33:40.630
Gean Na
Going back up, we have section 50500-8 and seals and then nine we have annular space grouting.
0:33:40.870 --> 0:33:44.630
Gean Na
This is similar ohm categories as in the past.
0:33:47.230 --> 0:33:58.510
Gean Na
Then we have service, connection we reestablishment on 1011 post installation and inspection 12 restoration measurement and then payment.

0:34:1.280 --> 0:34:6.800
Gean Na
Uh, David, you sent me language this morning related to payment.
0:34:7.580 --> 0:34:7.780
David Badgley
Yeah.
0:34:8.820 --> 0:34:13.20
Gean Na
If you could just wrap up some of the other stuff about the tables that I just showed you.
0:34:13.570 --> 0:34:13.750
David Badgley
Yeah.

0:34:14.450 --> 0:34:16.920
Gean Na
Umm yeah, I do wanna share with the group.
0:34:16.930 --> 0:34:26.90
Gean Na
What Dave suggests this morning was uh David was suggesting in lieu of a lump sum pay item to have everything itemized.

0:34:27.480 --> 0:34:34.760
Gean Na
I wanted to ask the agencies here today what your guys thoughts are on this when you guys are executing contract.

0:34:36.770 --> 0:34:40.590
Gean Na
I from what I'm hearing from David, used to call for a lump sum.

0:34:41.520 --> 0:34:42.540
Gean Na
Bid or pay item?
0:34:43.900 --> 0:34:48.940
Gean Na
Uh, would you recommend that greenbook suggest an itemized payment?
0:34:50.880 --> 0:34:53.120
Gean Na
Or by linear foot as it used to be here.
0:34:55.270 --> 0:34:57.710
Gean Na
Just looking for some commentary on that subject.
0:35:2.120 --> 0:35:3.50
Colin McCarter
Just my own opinion.
0:35:3.60 --> 0:35:6.150

## Colin McCarter

I'm always, um, partial to a contract unit price.
0:35:6.640 --> 0:35:10.360
Colin McCarter
I mean to make that fine adjustment, if anything varies from the the bid quantity.

0:35:11.580 --> 0:35:11.940

## David Badgley

The.
0:35:13.700 --> 0:35:13.840
Gean Na
OK.

0:35:14.710 --> 0:35:15.180
Gean Na
Thanks Colin.
0:35:19.910 --> 0:35:20.520
Gean Na
Anyone else?
0:35:21.460 --> 0:35:23.660
Jamie Lienberger
When when we did contracting work.
0:35:25.110 --> 0:35:30.800
Jamie Lienberger
Uh, my dad and I, we I'm not really fans of lump sum it.
0:35:32.280 --> 0:35:32.990
Jamie Lienberger
No, I'm.
0:35:33.0 --> 0:35:33.990
Jamie Lienberger
I'm not a fan of it.
0:35:34.200 --> 0:35:41.350
Jamie Lienberger
We've bid jobs like that, but it's hard if something goes wrong or you have to add something or take away from it.

0:35:41.360 --> 0:35:43.860
Jamie Lienberger
You're like, OK, well, how much do we take away or this that?
0:35:43.870 --> 0:35:49.980
Jamie Lienberger
And the other thing, because, you know, they're like, well, this is the price and but I'm not a fan of lump sum no.

0:35:51.460 --> 0:35:51.910
David Badgley
Yeah.
0:35:51.960 --> 0:35:54.110
David Badgley
And and this day?
0:35:54.180 --> 0:35:54.450
David Badgley
Yeah.
0:35:54.460 --> 0:35:56.140
David Badgley
As far as the contractor, I'm not.
0:35:56.560 --> 0:35:58.160
David Badgley
I'm not in love with lump sums.
0:35:58.170 --> 0:35:59.730
David Badgley
Everything's different, you know?
0:35:59.740 --> 0:36:3.770
David Badgley
From what the bid thing is, somebody's are longer, some are shorter.
0:36:4.180 --> 0:36:5.650
David Badgley
Depends how many you know.
0:36:7.50 --> 0:36:10.170
David Badgley
Sewer laterals or active laterals, you have to cut out.
0:36:10.930 --> 0:36:11.360
Jamie Lienberger
Yeah.
0:36:10.890 --> 0:36:12.50
David Badgley
Uh and.
0:36:11.370 --> 0:36:28.240
Jamie Lienberger
And and usually when it and I've seen lump sum bids, usually when you have a lump sum bid, the
municipality is already come through and giving you like, hey, you're mobilization is ex you're this is you know, bypasses Y blah they've already laid out what certain lump sum fees are.

0:36:28.480 --> 0:36:30.720
Jamie Lienberger
Sometimes those are enough, and sometimes they're not.
0:36:33.20 --> 0:36:46.530
David Badgley
Yeah, the wording that I came up with to replace this was I put down the payment shall be made for items provided or installed for the line items on the bid sheet and any change orders.

0:36:46.920 --> 0:36:58.910
David Badgley
So that allows the engineer to, if he wants to do it as a lump sum, he can do it if he wants to do it, as you know, line items, then you can do that because this list got way long.

0:36:58.920 --> 0:37:0.940
David Badgley
The more that we thought about it and it's.
0:37:0.610 --> 0:37:3.40
Jamie Lienberger
Ohh yeah that that list got stupid long. Dave.
0:37:3.160 --> 0:37:3.420
David Badgley
Yeah.
0:37:3.110 --> 0:37:7.900
Jamie Lienberger
I you're sentence, your sentence works if you give them a either or type thing.
0:37:8.120 --> 0:37:8.360
David Badgley
Yeah.
0:37:8.30 --> 0:37:11.910
Jamie Lienberger
Eliminating the word per we'll all be happy and we'll drink to that.
0:37:12.560 --> 0:37:12.820
David Badgley
Yeah.
0:37:12.650 --> 0:37:13.750
Jamie Lienberger
Umm but yeah.

0:37:14.830 --> 0:37:15.940
David Badgley
So the the.
0:37:16.110 --> 0:37:21.900
David Badgley
Yeah, this part is the part I couldn't quite get in my mind how to do it, and the list was too long.
0:37:22.230 --> 0:37:29.50
David Badgley
Yeah, this thing's covering people that are doing 6/8 inch lines and that's also covering lines.
0:37:29.60 --> 0:37:35.150
David Badgley
LA County sand stuff, where you're 6080 yell slip like, no.
0:37:31.960 --> 0:37:36.480
Jamie Lienberger
Yeah, this this is all the stuff that you and Jackie and I worked on, yeah.
0:37:36.130 --> 0:37:36.760
David Badgley
Yeah.

0:37:36.830 --> 0:37:37.200
David Badgley
Yeah.
0:37:37.250 --> 0:37:52.200
David Badgley
And so if you're, you know, bypass is a huge deal, so just this just this simple wording makes it to where replaces the the part where we say payment now which is in in black and white up there.

0:37:53.10 --> 0:37:58.200
David Badgley
Uh, you know, if you know, it could be if I'm doing bypassing and I'm doing large lines.
0:37:58.700 --> 0:38:1.310
David Badgley
Yeah, bypassing could be more expensive than the lining.
0:38:2.160 --> 0:38:2.480
David Badgley
Yeah.
0:38:2.670 --> 0:38:2.950
Gean Na
Uh.

0:38:2.490 --> 0:38:5.510
David Badgley
And if there's something that you need with that, no odor control.
0:38:6.80 --> 0:38:9.390
David Badgley
Yeah, there's lots of different things, but most things are.
0:38:10.420 --> 0:38:27.720
David Badgley
Yeah, you can kind of fake it on the small ones maybe, but this is kind of got to be generic for sewer
storm drain water lines and you know and anywhere from 6 inch on up to you know to 120 at you so.
0:38:28.480 --> 0:38:28.640
Jamie Lienberger
Yeah.

0:38:29.670 --> 0:38:30.40
Jacquie Jaques
Umm.

0:38:34.920 --> 0:38:35.120
David Badgley
Yeah.

0:38:31.280 --> 0:38:37.670
Gean Na
OK, so I I wanted to kind of take a step back for everyone here that may not be, you know, too involved in this.

0:38:37.730 --> 0:38:38.370
Gean Na
So what?

0:38:38.380 --> 0:38:39.260
Gean Na
I'm highlighting right now.
0:38:41.70 --> 0:38:42.750
Gean Na
I guess some purple or black.
0:38:42.760 --> 0:38:50.740
Gean Na
This is the original language that's currently in GREENBOOK for payment I I in to what Dave is saying.

0:38:50.750 --> 0:38:59.640
Gean Na
I think there is kind of the all other stuff to be itemized and what's in 14.1 and 14.2.
0:39:4.780 --> 0:39:4.920
David Badgley
Yeah.

0:38:59.910 --> 0:39:7.50
Gean Na
This is proposed new language and it looks like Dave isn't too sure about some of the stuff.
0:39:7.960 --> 0:39:10.70
Gean Na
Not exactly sure what you're saying, Dave.
0:39:9.960 --> 0:39:10.860
David Badgley
The I'm not.
0:39:10.420 --> 0:39:13.650
Gean Na
I don't know if you want this or you want the new stuff that you sent me today.
0:39:14.680 --> 0:39:15.70
David Badgley
Yeah.
0:39:15.80 --> 0:39:42.810
David Badgley
I'd like to just take that first line of underpayment and replace it with my line, or just modify it to where it's it's, you know that it allows whatever the engineer wants to do, whether he wants to do lump sum or whether he wants to do line items to make sure that somebody's providing yell odor control if that's required and the cost for doing bypassing if that's required.

0:39:43.440 --> 0:39:44.350

## David Badgley

Uh, we.
0:39:44.360 --> 0:39:52.410

## David Badgley

But instead of being specific on what all it is, just make it to where it all goes back to the bid sheet however they want to do it.

0:39:54.870 --> 0:39:57.760

## David Badgley

I'm always going to recommend line items, so it's uh.

0:40:2.540 --> 0:40:2.970
Gean Na
OK.

0:40:2.980 --> 0:40:7.510
Gean Na
So Dave here is what you sent this morning and I don't know.
0:40:6.710 --> 0:40:10.650
Jamie Lienberger
The payment shall be made for interpreters daughter, yes.
0:40:11.830 --> 0:40:12.360
Gean Na
And I don't.

0:40:13.230 --> 0:40:16.280
Jamie Lienberger
Items provided or installed in accordance.
0:40:18.340 --> 0:40:18.690
Jamie Lienberger
Payment.
0:40:18.700 --> 0:40:21.250
Jamie Lienberger
Shall we make items provided or installed?
0:40:23.120 --> 0:40:23.580
Jamie Lienberger
On the.
0:40:27.290 --> 0:40:31.850
Jamie Lienberger
Payment shall be made or buttons provided or installed condom.
0:40:33.590 --> 0:40:34.510
Jamie Lienberger
Stalled.
0:40:37.550 --> 0:40:48.230
David Badgley
So my thought was like if you're doing, yeah, manhole covers or something that that would be a thing rather than just lining.

0:40:49.270 --> 0:40:58.900
David Badgley

Yeah, if there's a unique part, you know the traffic control people have, the Erik always talks about, you know, the the equipment and then you have the installation.

0:40:58.910 --> 0:41:3.730
David Badgley
So it's it's two different two different parts, but you wouldn't do that on lining as much.
0:41:5.580 --> 0:41:12.380
David Badgley
So if we just change that first one, first sentence and the the standard that's there.
0:41:14.600 --> 0:41:21.840
David Badgley
If we just change that to what I put down, or modify that one to where it was, you know had that.
0:41:22.950 --> 0:41:23.290
Jamie Lienberger
Word.
0:41:27.820 --> 0:41:36.180
Jamie Lienberger
The payment payment payment initially made for by items, maybe she'll be made programs listed or installed.

0:41:37.590 --> 0:41:41.180
Jamie Lienberger
Payment shall be made for items listed or installed.
0:41:42.460 --> 0:41:43.390
Jamie Lienberger
Period.
0:41:43.470 --> 0:41:46.180
Jamie Lienberger
The line items on the bid sheet or any change orders.
0:41:59.800 --> 0:42:0.150
Jamie Lienberger
I don't.
0:41:57.860 --> 0:42:0.940
Colin McCarter
I don't really like that, to be honest. Yeah.
0:42:0.160 --> 0:42:1.800
Jamie Lienberger
The more I read it, the less I like it.

0:42:1.470 --> 0:42:2.880
David Badgley
Yeah, yeah.
0:42:2.950 --> 0:42:5.40
David Badgley
Do you wanna take the other one?
0:42:2.470 --> 0:42:5.520
Gean Na
I I think I feel the same way and I appreciate you.
0:42:6.330 --> 0:42:7.430
David Badgley
Yeah, yeah.
0:42:5.530 --> 0:42:9.300
Gean Na
You're stepping up on your comments there, calling Dave.
0:42:10.970 --> 0:42:11.270
David Badgley
OK.
0:42:9.310 --> 0:42:16.700
Gean Na
I I'd rather not throw their suspension right now, especially now being the 11th point, 9th hour.
0:42:16.450 --> 0:42:16.730
Jacquie Jaques
Umm.
0:42:15.390 --> 0:42:17.240
David Badgley
Right, yeah.
0:42:17.270 --> 0:42:20.700
Gean Na
So I I'd like to leave it, but I I I am asking.
0:42:22.720 --> 0:42:30.280

## Gean Na

This subcommittee, and particularly the agencies, to weigh in on this and to play close, pay close attention to this section.

0:42:30.560 --> 0:42:30.740
David Badgley
Yeah.

0:42:30.940 --> 0:42:31.230
Jacquie Jaques
Umm.
0:42:30.530 --> 0:42:39.460
Gean Na
It's important, and if you feel that we don't need this additional 14.1 and 14.2, please let us know.
0:42:40.310 --> 0:42:49.10
Gean Na
I more or less believe this came from industry and industry only, so I think it's important that agencies weigh in on this.
$0: 42: 50.110-->0: 42: 50.920$
Gean Na
Uh, but Dave?
0:42:51.580 --> 0:42:51.700
David Badgley
Yeah.

0:42:54.440 --> 0:42:54.740
David Badgley
OK.
0:42:50.930 --> 0:42:55.130
Gean Na
I'm just not going to resubmit or redistribute it.
0:42:56.20 --> 0:42:56.170
Jacquie Jaques
And.
0:42:56.580 --> 0:42:56.900
David Badgley
OK.
0:42:59.690 --> 0:43:0.230
David Badgley
No problem.
0:42:55.140 --> 0:43:1.560
Gean Na
What that new language again don't wanna throw in the French and and I don't think it reads very well.

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0:43:3.890 --> 0:43:4.70
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David Badgley
Yeah.

0:43:7.940 --> 0:43:8.190
Jamie Lienberger
Mm-hmm.
0:43:1.570 --> 0:43:9.620
Gean Na
I don't have that warm fuzzy feeling as I read it, and it sounds like Jamie and Colin feel the same way, so I hope you don't take any offense to that.

0:43:9.750 --> 0:43:10.460
David Badgley
Data that's.
0:43:9.630 --> 0:43:12.240
Gean Na
I just. Yeah.
0:43:11.980 --> 0:43:12.560
Jacquie Jaques
Hey, gene.
0:43:12.310 --> 0:43:14.750
Gean Na
So I ohh that sounds like Jackie.
0:43:14.760 --> 0:43:15.210
Gean Na
How's it going?
0:43:15.490 --> 0:43:15.960
Jacquie Jaques
Uh, you know.

0:43:16.110 --> 0:43:18.740
Jacquie Jaques
I sorry, I was like, I ran late on my other meeting.
0:43:19.130 --> 0:43:21.30
Jacquie Jaques
Just a couple of questions.
0:43:21.170 --> 0:43:31.280
Jacquie Jaques
First of all, obviously, we've had some comments from the city of San Diego as well as Orange County, San about having maybe a little bit more time to look at this document.

0:43:31.470 --> 0:43:41.540
Jacquie Jaques

Jamie and I, as well as Dave, we've looked at this thing at in detail and almost to the point, you almost have a hard time being objective because we've read it and reviewed it and edit it so many times.

0:43:41.930 --> 0:43:42.160
Gean Na
Umm.
0:43:41.910 --> 0:43:45.340
Jacquie Jaques
What about having maybe just an agency only group get together?
0:43:45.760 --> 0:43:48.270
Jacquie Jaques
Having a few days to go through this thing?
0:43:48.480 --> 0:43:57.270
Jacquie Jaques
Cite anything they think that might be problematic, and then bring it back to the committee and the form of some kind of comments on this draft.

0:43:57.600 --> 0:44:5.80
Jacquie Jaques
First of all, wanted to see if that might be something that would appease some of the people who were making comments earlier.

0:44:7.640 --> 0:44:8.680
David Badgley
Isn't the edit real?
0:44:7.860 --> 0:44:16.20
Fernandez, Dickie
Jackie is sticky from Orange Sentence citation with the comments that the gene has made and knowing that Colin was involved and other agencies.

0:44:16.630 --> 0:44:17.60
Jacquie Jaques
Ah.
0:44:17.400 --> 0:44:18.920
Fernandez, Dickie
Um, I'm fine.
0:44:19.460 --> 0:44:19.760
Jacquie Jaques
OK.
0:44:18.980 --> 0:44:25.990
Fernandez, Dickie

I'm my intent was only to make sure that we have no fatal flaws, but with a brief history that has been given to me now.

0:44:27.510 --> 0:44:30.700
Fernandez, Dickie
I'm OK moving forward and and I think that Jamie makes a good point.
0:44:30.960 --> 0:44:32.310
Jacquie Jaques
OK, I agree.
0:44:32.320 --> 0:44:32.770
Jacquie Jaques
I agree.
0:44:31.10 --> 0:44:33.930
Fernandez, Dickie
You know, people who had 30 days, but yeah.
0:44:34.610 --> 0:44:38.140
Jacquie Jaques
I agree, but I just wanted to just to bring that point out, just in case.
0:44:38.250 --> 0:44:46.840
Jacquie Jaques
Uh, \#2 Dave, you made a comment that you were going to be putting in some um ditional comments in the spare one section.

0:44:46.850 --> 0:44:52.210
Jacquie Jaques
I just wanted to make sure that was for the section that you were involved in because we don't have any changes to make to our section.

0:44:59.490 --> 0:44:59.590
David Badgley
Yeah.
0:44:53.520 --> 0:45:5.730
Gean Na
No, I just wanna clarify their Jackie, it wasn't particular to the spiral bound section, but there were some tables that were eliminated because they didn't do anything.

0:45:6.130 --> 0:45:6.480
Jacquie Jaques
Right.

0:45:10.610 --> 0:45:10.890
Jacquie Jaques
OK.
0:45:6.100 --> 0:45:17.490
Gean Na
However, the the text calling the table is still there, so just wanted to make sure that the text of the table is removed in any references of that table is removed appropriately.

0:45:18.800 --> 0:45:19.400
Gean Na
That's it.

0:45:19.800 --> 0:45:23.630
Jacquie Jaques
That's also and then \#3 can I join you in Colin for a cocktail?
0:45:25.150 --> 0:45:26.190
Jacquie Jaques
Since you're going out for beers.
0:45:26.450 --> 0:45:27.370
Colin McCarter
Anytime, yeah.
0:45:25.920 --> 0:45:28.750
Gean Na
Ohh I'll I'll never say I'll never say no to that.
0:45:28.980 --> 0:45:29.940
Jacquie Jaques
I wanna join up too.

0:45:30.950 --> 0:45:31.840
Gean Na
More the marrier.
0:45:31.850 --> 0:45:38.690
Gean Na
I'll say this, guys, once this thing is done and I'm really hopeful, I'm praying that this gets done and we never talk about this in 2024.

0:45:39.670 --> 0:45:43.550
Gean Na
Uh, yeah, we'll have to debrief. Decompress.

0:45:43.580 --> 0:45:44.750
Jacquie Jaques
Up. Awesome.
$0: 45: 45.90-->0: 45: 45.450$
Gean Na
Uh.

0:45:44.760 --> 0:45:49.550
Jacquie Jaques
But again, you know, I'm here to help with any of the final editorial.
0:45:49.560 --> 0:45:53.270
Jacquie Jaques
I would love to be part of the editorial committee after, and I'm sure Jamie would, too.
0:45:53.500 --> 0:45:59.100
Jacquie Jaques
After all the work we have done on this, so if you could throw our names into the list as well, that would be perfect.

0:46:0.110 --> 0:46:1.160
Gean Na
Uh, yeah, that'll be great.
0:46:1.170 --> 0:46:3.460
Gean Na
I've actually already thrown Jamie name there.
0:46:4.450 --> 0:46:8.260
Gean Na
I think it's speaking to Charles Chen about this.
0:46:8.430 --> 0:46:11.280
Gean Na
You know, it's always difficult to gather many different people.
0:46:12.160 --> 0:46:12.340
Gean Na
Uh.

0:46:12.340 --> 0:46:17.940

## Gean Na

And I've committed to tell him that I'll be there to help get the group up to speed as fast as possible.
0:46:18.320 --> 0:46:18.540
Jacquie Jaques
OK.

0:46:18.770 --> 0:46:30.130
Gean Na
Kind of explain a little bit of the history of this, just like I did with you guys all today and kind of explain what the changes were, which is really a reorganization and kind of group the technologies together.

0:46:30.570 --> 0:46:30.900
Gean Na
But yeah.
0:46:30.910 --> 0:46:32.0
Gean Na
Appreciate it, Jackie.
0:46:38.60 --> 0:46:38.340
Jacquie Jaques
OK.
0:46:32.390 --> 0:46:40.300
Gean Na
But I will say this I I feel like this is the time for agencies to get involved here and editorial, right?
0:46:40.310 --> 0:46:42.910
Gean Na
It's been a it's been mostly.
0:46:54.50 --> 0:46:54.590
Jacquie Jaques
Hmm.
0:46:44.970 --> 0:46:54.970
Gean Na
Industry stepping up to compile this and assisting Dave and I think you and Jamie for that, but this is the time for agencies to make sure that they put their eyes on it.

0:46:55.960 --> 0:46:58.890
Gean Na
That's that's how I honestly feel about it at this point.
0:46:59.180 --> 0:47:7.570

## Gean Na

So in and and not to sound like a broken record if if the same underground committee shows up to the editorial and we're the only ones talking, I don't.

0:47:10.520 --> 0:47:10.650
David Badgley
Yeah.

0:47:7.580 --> 0:47:13.220
Gean Na
I think the airspace is gonna be used up too much and I again, I think it's time for agencies to take a good look.

0:47:14.310 --> 0:47:17.280
Gean Na
Umm, that that's that's my two cents.
0:47:17.410 --> 0:47:21.140
Gean Na
And but you know, it doesn't hurt to have you guys there.
0:47:22.270 --> 0:47:23.100
Jacquie Jaques
That's perfect.
0:47:23.110 --> 0:47:23.980
Jacquie Jaques
I I agree with you.
0:47:23.990 --> 0:47:28.100
Jacquie Jaques
We want the agencies that are going to be using this to make sure it's accurate.
0:47:28.630 --> 0:47:28.860
Gean Na
Right.
0:47:28.170 --> 0:47:29.280
Jacquie Jaques
So no problem.
0:47:30.200 --> 0:47:30.700
Gean Na
Yeah.
0:47:30.710 --> 0:47:35.330
Gean Na
And and then I guess to clarify, it's not just agencies, but it really the voting Members.
0:47:35.340 --> 0:47:37.970
Gean Na
You know there's other utility in voting members there.
0:47:46.290 --> 0:47:46.630
Jacquie Jaques
Right.

0:47:37.980 --> 0:47:49.660
Gean Na
There's a DC who has a voting right at the main committee, but you know kind of the same agencies and voting members and not just industry who does not have a vote, right? So.

0:47:50.300 --> 0:47:50.960
Jacquie Jaques
No vote here.
0:47:54.780 --> 0:47:55.80
Jacquie Jaques
Alright.
0:47:52.90 --> 0:47:59.120
Gean Na
Alright, OK, so I, I, I, I'll obviously we don't have time to review all of this in thorough detail.
0:47:59.780 --> 0:48:5.820
Gean Na
I I will distribute this draft again along with the many meeting minutes at the end of this week.
0:48:5.930 --> 0:48:9.640
Gean Na
You guys should have it already if you would like a direct copy from me sent to you.
0:48:9.650 --> 0:48:13.510
Gean Na
Just email me, I will send you the same version from August 18th.
0:48:14.790 --> 0:48:20.970
Gean Na
Um Charles Chen will have a special meeting either next week or the first week of October.
0:48:21.900 --> 0:48:25.480
Gean Na
So if you agencies can participate in that, please do.
0:48:25.780 --> 0:48:27.110
Gean Na
I would really appreciate it.
0:48:28.450 --> 0:48:32.610
Gean Na
Are there any other questions to this change at this time?
0:48:34.630 --> 0:48:36.790

## Colin McCarter

I have one quick one that I'd love to address.

0:48:38.500 --> 0:48:39.160
Gean Na
OK, go ahead.
0:48:36.800 --> 0:48:41.770
Colin McCarter
While Jackies on the line, if you could scroll back down to measurement and payment where we were just looking.

0:48:46.780 --> 0:48:47.320
Gean Na
Uh.

0:48:48.880 --> 0:48:50.50
Colin McCarter
For 500, yeah.
0:48:47.520 --> 0:48:50.210
Gean Na
Uh for 500, not 501 .
0:48:50.220 --> 0:48:50.450
Gean Na
Yeah.
0:48:50.460 --> 0:48:52.190
Gean Na
Let me just scroll like you said.
0:48:52.420 --> 0:48:54.190
Gean Na
I'll try to get cute.
0:48:54.710 --> 0:48:55.90
Colin McCarter
Here we go.
0:48:54.980 --> 0:48:55.550
Gean Na
OK.
0:48:55.620 --> 0:48:56.80
Gean Na
Yep, go ahead.
0:48:55.860 --> 0:48:56.330
Jacquie Jaques
As your man.

0:48:56.580 --> 0:49:9.230

## Colin McCarter

Umm for our one of our favorite topics, annular space grouting in 500 dash 13, we talk about measuring annular space grouting by the cubic yard installed, implying that $\mathrm{it}^{\prime}$ ll be paid separately.

0:49:9.790 --> 0:49:10.260
Jacquie Jaques
Hmm.
0:49:9.660 --> 0:49:16.930
Colin McCarter
But then we include it in the contract unit price per linear foot of each diameter of pipeliner in 14 payment.
0:49:18.0 --> 0:49:19.960
Colin McCarter
It's called out as bullet point D .
0:49:23.700 --> 0:49:35.600
Jacquie Jaques
Every project that we get that we have, obviously two of our products are non grouted and are are SPR, TM product is large diameter and grouted and typically the agencies will have a separate.

0:49:37.810 --> 0:49:42.730
Jacquie Jaques
A line item on the bid documents on for annular space grouting.
0:49:43.940 --> 0:49:44.240
Colin McCarter
Right.
0:49:44.280 --> 0:49:45.480
Colin McCarter
I don't have a problem with that.
0:49:47.440 --> 0:49:47.660
Gean Na
Well.
0:49:45.490 --> 0:49:51.960

## Colin McCarter

We went through it back in the day, but we should take the bullet out for including it in the unit price of the liner itself.

0:49:52.160 --> 0:49:52.380
Jacquie Jaques
Yeah.

0:49:52.30 --> 0:49:53.530

## Colin McCarter

If we're gonna be measuring it separately.
0:49:54.190 --> 0:49:54.480
Jacquie Jaques
Mm-hmm.

0:49:56.40 --> 0:49:58.210
David Badgley
That's what I was trying to to do.
0:49:58.300 --> 0:49:58.950
David Badgley
You know that's.
0:49:59.240 --> 0:50:0.470
David Badgley
Yeah, because it was set up.
0:50:0.620 --> 0:50:2.730
David Badgley
Small diameter may not be a big deal.
0:50:2.800 --> 0:50:4.600
David Badgley
You know, if you got 3 1/2 inch pumps.
0:50:5.350 --> 0:50:7.720
David Badgley
Yeah, for bypassing.
0:50:8.110 --> 0:50:10.640
David Badgley
When you get into big stuff, you have multiple pumps.
0:50:10.930 --> 0:50:12.40
David Badgley
You have annular space.
0:50:12.50 --> 0:50:13.480
David Badgley
Grouting do you have no idea?
0:50:14.570 --> 0:50:14.840
Jamie Lienberger
I know.

0:50:15.160 --> 0:50:15.530
Jamie Lienberger
I.

0:50:14.890 --> 0:50:20.170
David Badgley
The boys that are outside the pipe and so that one is based off you know, how much did you use?
0:50:20.840 --> 0:50:33.90
David Badgley
That's what I was trying to do with that other wording for to replace the under the payment for even if we just modify that to where it's not love, some or items in the in the bid sheet.

0:50:35.410 --> 0:50:39.500
Jacquie Jaques
And deed would still be applicable annular space grouting if required.
0:50:39.570 --> 0:50:47.940
Jacquie Jaques
I mean, obviously that's not a requirement for all of our products or other manufacturers that would fall under our category, so.

0:50:47.900 --> 0:50:50.260
David Badgley
I liners don't don't need that.
0:50:49.940 --> 0:50:50.970
Gean Na
Uh, yeah, I see.
0:50:51.20 --> 0:50:52.130
Gean Na
I see what you're saying.
0:50:52.180 --> 0:50:54.470
Gean Na
So in essence, I don't know calling.
0:50:54.480 --> 0:51:0.130
Gean Na
I hear what you're saying is well, it almost sounded redundant, but the the keyword there is if.
0:51:3.120 --> 0:51:3.530
Jacquie Jaques
Mm-hmm.

0:51:0.230 --> 0:51:4.380
Gean Na
If it's required, then it'll become a bid item right here, right?
0:51:4.390 --> 0:51:8.650
Gean Na
So I feel like not doing anything is OK.
0:51:11.630 --> 0:51:12.150
Gean Na

## But Colin?

0:51:11.680 --> 0:51:25.730

## Colin McCarter

It is in conflict though, the way it's written now is we're we're including any annual annular space
grouting that happens to be required is being included in the unit price per linear foot of the liner itself.
0:51:27.360 --> 0:51:33.230
Colin McCarter
And that's what we're saying in 500 dash 14, but in 513 we're measuring that annular space.
0:51:33.240 --> 0:51:35.760
Colin McCarter
Grouting grout by the cubic yard separately.
0:51:36.370 --> 0:51:36.730
Gean Na
Hmm.
0:51:37.0 --> 0:51:37.290
Jacquie Jaques
Yeah.

0:51:37.300 --> 0:51:45.110
Jacquie Jaques
And that's typically how, um, at least you know our contractors are bidding their contracts.
0:51:45.120 --> 0:51:46.570
Jacquie Jaques
SAK Fowler.
0:51:46.640 --> 0:51:48.230
Jacquie Jaques
Ruby Collins, you name it.
0:51:48.320 --> 0:51:49.630
Jacquie Jaques
That's how they would be bidding this.

0:51:54.270 --> 0:51:55.400
Gean Na
Colin, what do you suggest?
0:51:56.160 --> 0:51:59.560
Colin McCarter
I think we need to take bullet point Dee out the way you had it highlighted before.
0:52:0.580 --> 0:52:9.80
Gean Na
So if it if it gets struck out, you're saying that that cost that work is gonna be buried in the contract unit price.

0:52:8.470 --> 0:52:9.460
Colin McCarter
It's already gonna.
0:52:9.470 --> 0:52:10.570
Colin McCarter
It's gonna have its own bid item.
0:52:12.760 --> 0:52:12.940
Gean Na
But.

0:52:12.330 --> 0:52:17.740

## Colin McCarter

Measured by the cubic yard for annular space grouting as it's written in 513.
0:52:16.370 --> 0:52:20.930
Jacquie Jaques
But I I and I understand, yeah.

0:52:18.320 --> 0:52:21.390
Gean Na
But this is just how you measure it though, but it's not.
0:52:27.960 --> 0:52:28.240
Jacquie Jaques
Mm-hmm.

0:52:21.460 --> 0:52:30.180
Gean Na
I feel like it's not going to be covered though because this is how it's going to be covered so that that as a contractor that cost the due to add another space.

0:52:30.190 --> 0:52:34.150
Gean Na
Grouting is a cost and it's gonna have to be buried somewhere.
0:52:35.60 --> 0:52:38.840
Gean Na
And if it's not gonna be its own separate item, it's probably gonna have to go into E .
0:52:40.20 --> 0:52:40.980
Jacquie Jaques
What about gentlemen?
0:52:41.40 --> 0:52:55.670
Jacquie Jaques
What about maybe doing this and maybe for you know, clarification for consistency in 513 for the last sentence and your space grouting, if required, shall be measured by the cubic yards installed and that would be consistent.

0:52:55.680 --> 0:53:3.480
Jacquie Jaques
Then with the bullet points that you've added down and we'd be consistent with item D , would that be OK?

0:53:5.640 --> 0:53:10.80
Colin McCarter
I don't mind adding if required, but we're not gonna be measuring by the cubic yard.
0:53:11.410 --> 0:53:11.960
Gean Na
Hmm.

0:53:12.320 --> 0:53:12.600
Jacquie Jaques
That's.

0:53:10.90 --> 0:53:17.310

## Colin McCarter

We're not gonna be quantifying your volume of annular grout if we're including it in the per linear foot unit price of the liner.

0:53:17.930 --> 0:53:18.380
Jamie Lienberger
Influence.

0:53:17.70 --> 0:53:18.650
Gean Na
Uh, I.

0:53:17.890 --> 0:53:19.540
Jacquie Jaques
Oh no, I agree with that.
0:53:19.550 --> 0:53:35.120
Jacquie Jaques
But like for example when we run our design calculations for our contractors, we will be giving them recommendations on the the amount of cubic yards and how many lifts would be required based on the type of grout.

0:53:35.230 --> 0:53:48.950
Jacquie Jaques
If it's non structural or structural, so the contractors would be bidding those projects based on the how many cubic yards would be required based on the annular space based on the design of the liner being proposed.

0:53:49.240 --> 0:53:55.110
Jacquie Jaques
So just to give you a little background on that, so obviously some of our products don't need it.
0:53:55.120 --> 0:54:1.790
Jacquie Jaques
And I just wanna keep the distinction that annular space grouting is not always required with every lining system.

0:54:1.920 --> 0:54:12.580
Jacquie Jaques
But when it is, this is the method by which it's measured, and so the contractor can get paid correctly for how many yards cubic yards that were actually installed.

0:54:14.780 --> 0:54:19.590

## Gean Na

At Colin I, I definitely I I see your I see your conflict.
0:54:19.640 --> 0:54:28.90

## Gean Na

You know you're in linear foot in one time, and then you're in cubic yards and another and then Jackie are staying.

0:54:29.930 --> 0:54:33.840
Gean Na
You may want to go and cubic yards if necessary, but it's not always necessary.
0:54:34.920 --> 0:54:35.80
Jacquie Jaques
Umm.

0:54:33.850 --> 0:54:48.760

## Gean Na

And then Dave's perspective is, sometimes you're diameters change, so you may have linear foot for small diameter at one point and then you make a bigger and now you have kind of a apples and oranges in that perspective.

0:54:56.340 --> 0:54:57.580
Jacquie Jaques
Let's see what we do here.
0:54:48.870 --> 0:54:59.170
Gean Na
I don't know what the right the question is at this point, but I see I see your point call in um I I I I I don't know.

0:54:59.180 --> 0:55:1.950
Gean Na
I don't know if we need to come up with the solution right now, but we are out of time.
0:55:1.960 --> 0:55:5.450
Gean Na
I don't wanna say come back next month, but the better solution.
0:55:5.760 --> 0:55:9.490
Gean Na
The call in I'm going back to your original suggestion here.
0:55:10.510 --> 0:55:12.660
Gean Na
If this is just struck out entirely.
0:55:14.700 --> 0:55:28.290
Gean Na
Jackie, you would that cost for annular space grouting, although it's measured in cubic yards, you're gonna have to bury that cost somewhere if it's not called for in the bid items.

0:55:27.920 --> 0:55:29.950
Jacquie Jaques
Yeah, but yeah, but we're the manufacturer.
0:55:32.700 --> 0:55:32.950
Gean Na
Hmm.

0:55:29.960 --> 0:55:40.890
Jacquie Jaques

Obviously, when I'm not the contractor bidding up, you know our our licensees have you know our price list, you know for buying our material per spool which is you know per meter.

0:55:41.540 --> 0:55:46.370
Jacquie Jaques
So the contractors will, we will prove, help them with the design of the projects.
0:55:46.900 --> 0:56:2.840
Jacquie Jaques
But you could say for example, let's say we have a 72 inch project and depending on if we're, you know designing for partially or fully deteriorated based on the water table, depth of cover, other loading we could have various annular spaces for two different projects based on different design criteria.

0:56:3.90 --> 0:56:8.840
Jacquie Jaques
One might only have a one inch annular space, another one might have three and might be a composite design.

0:56:8.850 --> 0:56:17.920
Jacquie Jaques
So again, that's why being specific on how many cubic yards and what type of grout that is required is really essential here.

0:56:21.140 --> 0:56:21.500

## Colin McCarter

Right.
0:56:26.0 --> 0:56:26.750
Jacquie Jaques
Yeah.
0:56:27.0 --> 0:56:29.90
Jacquie Jaques
OK. OK.
0:56:21.550 --> 0:56:38.370

## Colin McCarter

And and that all supports taking it out of the unit price for the liner itself and measuring that and separate and paying it separately the way it's written in 513 that way it has its own payment item and it can you know no float with the design and what's actually you know and constructed.

0:56:39.640 --> 0:56:44.70
Jacquie Jaques
I I I understand that and I at that's the best clarification I have no problem with that.

0:56:45.300 --> 0:56:48.570
Gean Na
Or call in this ABCD.
0:56:48.580 --> 0:56:51.870
Gean Na
This is all in addition to the liner line item.

0:56:51.880 --> 0:56:53.660
Gean Na
Is that how you interpret it as well?
0:56:53.30 --> 0:56:54.570

## Colin McCarter

No, no.

0:56:56.80 --> 0:56:56.860
Gean Na
This is everything.
0:56:54.580 --> 0:56:57.760
Colin McCarter
That's what you're you're you have like an 8 inch liner.
0:56:57.770 --> 0:57:0.960
Colin McCarter
You know, slip liner and you're paying that for the per the linear foot.
0:57:1.390 --> 0:57:1.730
Jacquie Jaques
Right.
0:57:1.540 --> 0:57:1.750
Gean Na
You.
0:57:1.430 --> 0:57:12.350

## Colin McCarter

So you're you're contract unit price per linear foot is going to include any bypass and pumping that's required service connections that are need to be located and reestablished, et cetera, et cetera, et cetera.

0:57:12.610 --> 0:57:13.530
Gean Na
Yeah. OK.
0:57:18.230 --> 0:57:18.440
Jacquie Jaques
Yeah.

0:57:22.730 --> 0:57:22.930
Gean Na
Umm.
0:57:23.500 --> 0:57:23.680
Jacquie Jaques
Yeah.

0:57:13.280 --> 0:57:24.280
Colin McCarter
So if we're including that in the price of the liner for annular space grouting, we can't simultaneously say that it's gonna be measured by the cubic yard and 513 that that that's the conflict.

0:57:26.270 --> 0:57:26.570
Gean Na
OK.

0:57:25.940 --> 0:57:27.780
David Badgley
Needs to have unit.

0:57:28.20 --> 0:57:30.430

## David Badgley

Yeah, but it needs to be.
0:57:30.500 --> 0:57:40.740
David Badgley
You know, if somebody wanted it lump sum or if they wanted it as a unit cost that the under the payment, it ought to give them the option of doing that.

0:57:49.100 --> 0:57:51.0
Gean Na
Well, here's what I suggest, guys.
0:57:51.130 --> 0:57:56.120
Gean Na
Yeah, I definitely hear Collins for suggestion, especially coming from any agency.
0:57:56.990 --> 0:57:57.800
Gean Na
Umm, I'm.
0:57:57.810 --> 0:58:22.320

## Gean Na

I'm hoping that as the rest of the game review this spend time in it on this subject and and ask yourselves if you agree what striking out D I'll put that in the meeting minutes that Colin is suggesting that for 284 of to remove that conflict there and and we'll wrap it up when we come back along with editorial too.

0:58:22.370 --> 0:58:28.890
Gean Na
But I I kind of wanna put a pin on it, but I will note that Colin that is recommending to remove the at this time.

0:58:35.530 --> 0:58:35.860
Gean Na
Umm.
0:58:35.870 --> 0:58:37.220
Gean Na
Anything else, guys?
0:58:37.710 --> 0:58:38.560
Gean Na
Any other questions?
0:58:40.120 --> 0:58:41.130
David Badgley
Gene, this is Dave.
0:58:41.140 --> 0:58:49.300
David Badgley
I I just sent you an email with the copy of the when we first started this thing of who?
0:58:49.830 --> 0:58:50.80
David Badgley
Who?
0:58:50.90 --> 0:58:54.580
David Badgley
The agency people were that were in charge of each of the different sections.
0:58:54.970 --> 0:58:56.850
David Badgley
And then what the the?
0:58:58.770 --> 0:59:3.410
David Badgley
Who is responsible for each of the different sections in here?
0:59:3.420 --> 0:59:4.120
David Badgley
So that ought to help.
0:59:6.940 --> 0:59:8.130
David Badgley
Orange County, you know.

0:59:9.40 --> 0:59:10.30
David Badgley
No, kind of it.
0:59:10.140 --> 0:59:11.210
David Badgley
This was all done.
0:59:11.380 --> 0:59:23.480
David Badgley
Yeah, we tried to keep it as much with with we had all agency members except for the usable solid wall slip liners and then the folded forms which Bryce had.

0:59:23.490 --> 0:59:26.130
David Badgley
And then I ended up taking over when he couldn't do it so.
0:59:29.410 --> 0:59:29.740
Gean Na
OK.
0:59:29.750 --> 0:59:30.420
Gean Na
Thank you.
0:59:32.30 --> 0:59:32.210
David Badgley
Yeah.
0:59:30.490 --> 0:59:34.450
Gean Na
I will share that along with redistributing this document at the end of the week.
0:59:34.40 --> 0:59:34.630
David Badgley
Yeah.
0:59:34.700 --> 0:59:36.410

## David Badgley

Once you redistribute this too.
0:59:36.420 --> 0:59:51.60
David Badgley
So they yeah, so that people know who you know because we had that Arrington, Kent Welling, Anthony Howard and Philip Kang and Colin and Anthony and and Philip again so.

0:59:51.340 --> 0:59:51.620
Gean Na
OK.

0:59:54.610 --> 0:59:55.20
David Badgley
OK.

0:59:57.140 --> 0:59:57.660
David Badgley
Ohh OK.

0:59:52.430 --> 0:59:58.760
Gean Na
Uh, Dave, I'll connect with you after cause the snapshot that you take is not legible, but I appreciate that.
0:59:59.410 --> 0:59:59.750
David Badgley
OK.
1:0:0.880 --> 1:0:1.160
Gean Na
OK.

1:0:2.910 --> 1:0:3.460
Gean Na
All right.

1:0:3.530 --> 1:0:4.930
Gean Na
Anything else for 284 ?
1:0:8.20 --> 1:0:10.750
Gean Na
OK, I'm just gonna hit save on the mini minutes.
1:0:10.760 --> 1:0:12.980
Gean Na
We have 27 more minutes here, guys.
1:0:14.780 --> 1:0:16.860
Gean Na
I can appreciate the time that we spent on it.
1:0:17.280 --> 1:0:22.460
Gean Na
There are three other changes that was put on hold by Ken Carlson.

## 1:0:23.370 --> 1:0:38.170

Gean Na
Three 29330 and 3:31 and then the other last change item was 332 causes for rejection of precast reinforced concrete box referencing ASHTO arsema 3 we voted and improved on it last month.

1:0:38.220 --> 1:0:40.110
Gean Na
It's moved to editorial.
1:0:40.640 --> 1:0:48.990
Gean Na
I I have it still on my meeting minutes, just to remind us at what stage that changes again, it's at editorial, it may come back.

1:0:49.0 --> 1:0:54.130
Gean Na
So I'll leave it in our old business for now, but we don't have any discussion or time needed on it today.
1:0:55.320 --> 1:1:4.910
Gean Na
So going back to change 329 um , this is about the table for SDR 35 PVC pipe proposed by Kent Carlson.
1:1:5.260 --> 1:1:7.920
Gean Na
He asked to put this on hold, along with the mandrel.
1:1:8.970 --> 1:1:10.670
Gean Na
Um change.
1:1:10.680 --> 1:1:15.910
Gean Na
I guess going from 9 to 12 believe and then the 11th about the warranty footnote.
1:1:17.790 --> 1:1:23.460
Gean Na
Jeff is also here today from the Clay Pipe Institute, so I wanted to give you a chance.
1:1:25.420 --> 1:1:29.40
Gean Na
Or the floor to talk about any of those three changes if you'd like.
1:1:34.840 --> 1:1:36.10
Jeff Boschert
He will thank you.

1:1:36.60 --> 1:1:38.360
Jeff Boschert
Uh, the I put together.
1:1:38.490 --> 1:1:43.60
Jeff Boschert
Uh, and I only shared it with one guy, but put together and I again.
1:1:43.70 --> 1:1:45.740
Jeff Boschert
I haven't been involved up until this point.
1:1:45.750 --> 1:1:47.900
Jeff Boschert
Kent kind of taking the lead on all three of those.
1:1:48.720 --> 1:2:6.590
Jeff Boschert
I put together a just a quick one pager, I guess to show a what is the base ID and how's it compared to the average ID and share that with Dickie Fernandez and and he thought that would had some merit to continue discussion rather than remove it.

1:2:6.640 --> 1:2:9.300
Jeff Boschert
Ohh Dickie, are you still with us?
1:2:9.980 --> 1:2:11.30
Fernandez, Dickie
Yeah, I'm still here.
1:2:11.120 --> 1:2:11.520
Fernandez, Dickie
I'm still here.
1:2:12.100 --> 1:2:12.870
Jeff Boschert
OK.
1:2:13.200 --> 1:2:15.200
Jeff Boschert
And I haven't shared it with anybody else.
1:2:15.210 --> 1:2:17.250
Jeff Boschert
Uh, I know Dickie woke.

1:2:17.520 --> 1:2:23.50
Jeff Boschert
I just felt like and again, I hadn't been on, but I felt like there was maybe there was some confusion.
1:2:23.140 --> 1:2:39.310
Jeff Boschert
You know, there's these changes were made back in 2015 and you know to change it to numbers that you know had bearing for 20 some odd years and they have bearing and many other places as the actual number to use.

1:2:39.640 --> 1:2:49.0
Jeff Boschert
And I know the all the all the, the information, the and voting and all the the notes are somehow.
1:2:50.720 --> 1:2:56.200
Jeff Boschert
Disappeared back from 2015, but I guess the proposal was to go back to average idea and.
1:2:56.880 --> 1:2:57.390
Jeff Boschert
Uh.
1:2:57.910 --> 1:3:1.250
Jeff Boschert
And scrap the base ID that was the.
1:3:1.360 --> 1:3:4.270
Jeff Boschert
This is I guess this is the table.
1:3:5.350 --> 1:3:5.570
Jeff Boschert
What?
1:3:5.580 --> 1:3:9.730
Jeff Boschert
She was the first of three topics that Kent presented.
1:3:10.870 --> 1:3:17.470
Fernandez, Dickie
Jeff, can you share your screen so that we can if you wanna share your document, I think that might help the the rest of the group.

1:3:17.60 --> 1:3:17.810
Gean Na
Yeah.

1:3:16.640 --> 1:3:18.450
Jeff Boschert
Here, alright.
1:3:17.870 --> 1:3:19.170
Gean Na
Yeah, Jeff, I made you a presenter.
1:3:19.180 --> 1:3:19.990
Gean Na
So you should be able to.
1:3:23.810 --> 1:3:25.480
Jeff Boschert
Can you see my screen guys?
1:3:26.30 --> 1:3:26.320
Fernandez, Dickie
Yep.
1:3:25.860 --> 1:3:26.680
Gean Na
Yes, we can.
1:3:27.160 --> 1:3:31.630
Jeff Boschert
OK, so this is a word file to try to spell it out in plain terms.
1:3:31.700 --> 1:3:35.550
Jeff Boschert
OK average ID compared to base ID.
1:3:35.980 --> 1:3:44.410
Jeff Boschert
You know, there's there's many numbers in the standards, but if you actually measure it pipe, you know you measure the the X axis.

1:3:44.420 --> 1:3:45.950
Jeff Boschert
This is the DR-35.
1:3:45.960 --> 1:3:49.330
Jeff Boschert
You measure the axe, measure the Y , you take the average.
1:3:49.640 --> 1:3:54.350
Jeff Boschert
You know, that's pretty damn close to what they call the average ID.

1:3:55.80 --> 1:4:6.190
Jeff Boschert
If you go to the standard itself, if you go to 3034 and they left a table table one in the actual standard shows average OD, it shows wall thicknesses.

1:4:6.280 --> 1:4:13.460
Jeff Boschert
If you take that average OD, subtract 2 wall thicknesses, kind of like the green book used to say, that is the actual size of the pipe.

1:4:26.900 --> 1:4:27.40
David Badgley
Yeah.
1:4:14.630 --> 1:4:27.750
Jeff Boschert
Umm but I'm not sure when it started, but uh, you know, there's an appendix in both 3034 as well as F679 for the larger size pipe.

1:4:27.840 --> 1:4:36.190
Jeff Boschert
You know, they came up with something called the base ID, and they're they also have $71 / 2 \%$ mandrel numbers based off that base ID.

1:4:36.480 --> 1:4:48.810
Jeff Boschert
But in all actuality, the inside diameter the pipe is the average ID or average OD minus two wall thicknesses, and you know it has anybody that's an owner measured of PVC pipe.

1:4:49.130 --> 1:4:51.60
Jeff Boschert
You know, do you know what the idea of the pipe is?
1:4:51.70 --> 1:5:7.440
Jeff Boschert
You know the mandrels need to be based off the actual pipe size and not another number, so this document just is has an example of 8 inch and you know if your size the mandrel for example an 8 inch SDR 35 pipe.

1:5:7.450 --> 1:5:24.440
Jeff Boschert
If you want $5 \%$ and you you have the mandrel size for a $5 \%$ based off a base ID number, you know you're really getting, you're really testing and allowing for 7.7 , whether it's day 30 or day 11 months.

1:5:25.90 --> 1:5:28.180
Jeff Boschert
Um for for example, a 15 inch pipe.

1:5:28.250 --> 1:5:38.400
Jeff Boschert
You know, the greenbook spec is $4 \%$ and if you base that off the base ID number, you know you're getting $7.2 \%$ when you're looking for four, almost double.

1:5:38.830 --> 1:5:55.140
Jeff Boschert
So you know, prior to 2015, the Green Book and like many other agencies across the country, you know they spell out mandrel diameters based on the average ID or the average OD minus two wall thicknesses.

1:5:55.350 --> 1:5:56.820
Jeff Boschert
You know, this isn't something new.
1:5:56.830 --> 1:6:2.430
Jeff Boschert
You know, the Green Book was like this for 20 some odd years before the change was made in 2015.
1:6:3.130 --> 1:6:3.780
Jeff Boschert
Um.
1:6:4.590 --> 1:6:20.720
Jeff Boschert
So, um, you know, this document kind of shows that kind of spells that out and I'm not sure where this is gonna go with the group, but you know, for those that her owners that use PVC pipe, go measure the pipe.

1:6:20.830 --> 1:6:29.130
Jeff Boschert
You know, if you got the job going on, go measure the actual pipe size, measure the axe, measure the Y , do an average and see what the actual pipe size is.

1:6:29.450 --> 1:6:31.880
Jeff Boschert
You know, is it the average ID or is it the base ID?
1:6:32.230 --> 1:6:42.660
Jeff Boschert
I challenge you to do that, but I think if I was, I guess I'm presenting this for Kent because if I was an owner and I was specifying PVC pipe, I guess I'd wanna know this.

1:6:48.80 --> 1:6:48.340
Gean Na
Yeah.

1:6:48.350 --> 1:6:48.940
Gean Na
Thanks Jeff.
1:6:48.950 --> 1:6:53.130
Gean Na
I'm happy to take this from you and distribute it to the group.
1:6:53.670 --> 1:6:53.890
Jeff Boschert
Sure.
1:6:54.420 --> 1:6:55.270
Gean Na
Umm, I'm.
1:6:56.340 --> 1:7:11.960
Gean Na
Also kind of filing, you know, my meeting minutes and correspondence and you know, documents like this that gets shared into a digital or virtual folder that way in 10 years from now, the next generation of folks can refer to stuff like this.

1:7:12.230 --> 1:7:12.510
Jeff Boschert
Sure.
1:7:12.830 --> 1:7:25.990
Gean Na
I know that's something that Greenbook hasn't done the best of and and the past few decades or whatnot, so I know there's a lot of physical paper, but you know, and no one's gonna dig to a bunch of physical paper or, you know, old files and whatnot.

1:7:26.0 --> 1:7:28.120
Gean Na
So anyhow, I appreciate you sharing that.
1:7:29.500 --> 1:7:31.550
Gean Na
I do wanna share that umm.
1:7:31.910 --> 1:7:35.100
Gean Na
And did have a table that we've talked about a lot.
1:7:36.110 --> 1:7:41.600
Gean Na
Uh, but I I looks like your Word document kind of spelled it out a little bit slower, a little bit more clearly.

1:7:42.150 --> 1:7:43.130
Gean Na
So there's been a lot of.
1:7:41.930 --> 1:7:43.460
Jeff Boschert
Yeah, I tried to put something together.
1:7:43.470 --> 1:7:50.900
Jeff Boschert
Just A1 pager we could share with somebody and read it in 3 minutes and understand, hey, what are we talking about here?

1:7:50.950 --> 1:7:53.400
Jeff Boschert
And you know, there's many agencies.
1:7:53.410 --> 1:7:59.620
Jeff Boschert
I I just did a quick search this morning before the meeting and you know I found four or five online that spell out.

1:7:59.630 --> 1:8:1.920
Jeff Boschert
Hey, you shall not use the base ID.
1:8:1.930 --> 1:8:4.510
Jeff Boschert
You shall use the average OD minus two wall things.
1:8:4.520 --> 1:8:13.530
Jeff Boschert
Is like, you know, in the 679 standards the dated one, but they're the same today, but average OD tolerant and then take out the wall thickness.

1:8:13.600 --> 1:8:18.950
Jeff Boschert
But then if you Scroll down to the appendix, you know they give this base ID number.
1:8:18.960 --> 1:8:23.210
Jeff Boschert
Then they give us $71 / 2 \%$ number and this number is not the idea of the pipe.
1:8:23.280 --> 1:8:28.750
Jeff Boschert
There is a tolerance package based on some 1970s statistical thing.

1:8:29.40 --> 1:8:29.400
Jeff Boschert
I don't know.
1:8:29.410 --> 1:8:32.870
Jeff Boschert
I just I I feel like if I was an owner, I wanna know.
1:8:32.960 --> 1:8:33.470
Jeff Boschert
I wanna know.
1:8:35.660 --> 1:8:36.830
Jeff Boschert
Here's from Kansas City.
1:8:36.840 --> 1:8:38.640
Jeff Boschert
I'm not sure if you can still see my screen.
1:8:39.740 --> 1:8:40.220
Gean Na
Yeah, we can.
1:8:38.650 --> 1:8:41.730
Jeff Boschert
This is a, you know, this is what they spell out.
1:8:41.780 --> 1:8:43.80
Jeff Boschert
You know the inside diameter.
1:8:43.90 --> 1:8:53.70
Jeff Boschert
The pipe shall be the outside diameter minus two wall thicknesses, and this is how the green book was for 20 semi years before all these changes got made.

1:8:59.400 --> 1:8:59.870
Gean Na
Yeah.
1:8:59.880 --> 1:9:0.310
Gean Na
Can I?
1:9:0.320 --> 1:9:1.590
Gean Na
Can I just pause right there?

## 1:8:53.80 --> 1:9:3.510

Jeff Boschert
As I think Kent talked about back in 15, so anyway I think you guys have kicked this around a whole bunch of times over the last six months.

1:9:3.520 --> 1:9:4.290
Jeff Boschert
And so I don't wanna.
1:9:4.460 --> 1:9:10.920
Jeff Boschert
I don't wanna beat it to death, but I thought, hey, let me jump in here and maybe I can create something. Anybody.

1:9:9.670 --> 1:9:12.580
Gean Na
Wow, Jeff, you, you didn't beat it to death.
1:9:13.960 --> 1:9:14.420
Jeff Boschert
OK.
1:9:12.590 --> 1:9:16.860
Gean Na
It's already dead cause we've beat it up, but you've revived it and that's OK.
1:9:17.90 --> 1:9:23.510
Gean Na
I do wanna ask David and maybe Jamie, I know you guys have been very participant including you, Jackie.

1:9:24.850 --> 1:9:35.990
Gean Na
I know Curt Gilley had a Part 2 or Part 3 underground update around that timeline and those kind of the 2012 or 13 or whatnot.

1:9:36.0 --> 1:9:42.590
Gean Na
Do you guys recall having discussion of referencing the base ID or average ID for internal diameters?
1:9:44.960 --> 1:9:45.930

David Badgley
Uh, this is Dave.
1:9:45.680 --> 1:9:45.990
Jacquie Jaques
Now.

1:9:45.940 --> 1:9:48.330
David Badgley
I I don't, but I can look back at my stuff.
1:9:57.650 --> 1:9:57.960
Gean Na
Ohh.
1:10:0.140 --> 1:10:1.40
Jacquie Jaques
Yeah, exactly.
1:9:48.340 --> 1:10:1.300
David Badgley
It wouldn't have been the it's before we were part, we were complete subcommittee under underground before and so we wouldn't have heard stuff about new construction materials.

1:10:1.900 --> 1:10:2.130
Gean Na
Hmm.
1:10:2.550 --> 1:10:10.170
David Badgley
Uh, so yeah, within the last five years or so that it's all been combined together.
1:10:11.560 --> 1:10:14.350
David Badgley
So but but I can look back at my notes.
1:10:14.410 --> 1:10:15.10
David Badgley
Yeah, I've got.
1:10:15.740 --> 1:10:19.200
David Badgley
I've got meeting notes from like 20.
1:10:19.440 --> 1:10:21.110
David Badgley
So whatever we started this thing.
1:10:22.180 --> 1:10:25.670
Jacquie Jaques
1996 it's it's.
1:10:21.120 --> 1:10:25.940
David Badgley
So, so night the well, no, no.

1:10:25.950 --> 1:10:28.500
David Badgley
8088 or something like that.
1:10:34.90 --> 1:10:34.300
Jacquie Jaques
No.
1:10:28.510 --> 1:10:38.890
David Badgley
This when we started with insituform that I started on the 500 section, so I know what it didn't get done until till the nineties 1990 .

1:10:40.890 --> 1:10:44.570
Gean Na
Jeff, yet if you want me to distribute it, just go ahead and send it.
1:10:44.780 --> 1:10:46.610
Gean Na
Umm, Raffi, go ahead.
1:10:48.540 --> 1:10:49.840
Raffie Yeremian
Hey Gene, I apologize for being late.
1:10:51.880 --> 1:10:57.510
Raffie Yeremian
Yeah, I I hear what what Jeff providing here and and I'm interested to read it as well.
1:10:57.880 --> 1:11:6.170
Raffie Yeremian
My I just from a personal standpoint my I started on the Green Book back in 2015.
1:11:6.180 --> 1:11:6.530
Raffie Yeremian
Ish.
1:11:6.540 --> 1:11:20.500
Raffie Yeremian
Or so when Kurt and Eric, we're working on the underground subcommittee and we were working on precast vaults at the time we were introducing precast vaults into the, the and Keegan Fahey was a big part of that too.

1:11:21.580 --> 1:11:37.170
Raffie Yeremian
And the one thing I I remember as we went through the discussions with Eric is he kept referring back to
the ASTM and we had the reps from all the different precasters there and there was someone who would prefer to do a webcast, someone who did a dry cast system.

1:11:37.660 --> 1:11:59.860
Raffie Yeremian
But the one thing that I remember was Eric kept driving the conversation back to the ASTM because, umm, at the end of the day, those manufacturers were were bound to those ASTM's and there were manufacturing a product that was being used by multiple agencies and multiple conditions and they needed to have some sort of industry standard.

1:12:0.180 --> 1:12:6.50
Raffie Yeremian
And that's why I think as we look at you know, we reintroduced this topic about the mandrels and the deflections.

1:12:6.500 --> 1:12:12.600
Raffie Yeremian
I think any time we get away from the ASTM, we're signing ourselves up for potentially.
1:12:13.300 --> 1:12:25.560

## Raffie Yeremian

A A nonconforming condition that we're gonna create down the line because our manufacturers will not create a a special product line for for Green Book, right.

1:12:25.570 --> 1:12:30.970

## Raffie Yeremian

They're gonna create a nationally, you know, most of our product comes from all sorts of different states.
1:12:31.80 --> 1:12:35.130
Raffie Yeremian
South Dakota, Nebraska, where this manufacturing is located.
1:12:35.140 --> 1:12:36.830
Raffie Yeremian
And they ship across nationwide.
1:12:37.200 --> 1:12:43.490

## Raffie Yeremian

And I think if we start introducing specifications inside the greenbook, all we're going to do is create confusion.

1:12:43.640 --> 1:12:59.840

## Raffie Yeremian

And as the agency Rep, that confusion always falls on the contractor because the specification will be there and the manufacturer will provide you a letter that says that this is what we're providing and the contractor is stuck in the middle trying to appease both sides.

1:13:0.120 --> 1:13:15.280

## Raffie Yeremian

And so I asked that the Members and the major agencies take a look at this from an agency standpoint, and if you, if you feel that the product does not meet what you need for your agency, I say look at it from that perspective and find another product.

1:13:15.290 --> 1:13:24.800
Raffie Yeremian
But if we start asking for a product to do something that the ASTM is not built around, then we're going to create just a lot of confusion downstream.

1:13:25.720 --> 1:13:35.140
Raffie Yeremian
And you know, again, if we're going to have those conversations, we need them present and we need them advocating for their product as well in here, right.

1:13:35.280 --> 1:13:45.540
Raffie Yeremian
So I I just want to make sure that as we look at these things, we're looking at them in the sense of you know, is this going to add clarity or create more obscurity down the line?

1:13:45.670 --> 1:13:59.720
Raffie Yeremian
And is this gonna limit the use of off the shelf products or are we gonna create some sort of, you know, manufacturing issues that that that'll cause the manufacturers to not want to get engaged with greenbook customers, right? So.

1:14:3.500 --> 1:14:3.760
Gean Na
Yeah.
1:14:3.830 --> 1:14:4.70
Jeff Boschert
Yeah.
1:14:3.770 --> 1:14:7.330
Gean Na
Thanks RAFFIE, but Jeff, I see you went to an interesting table.
1:14:7.340 --> 1:14:8.370

## Gean Na

I've never seen it myself.
1:14:5.160 --> 1:14:8.880
Jeff Boschert
And yeah, yeah, I shared the, you know, the.

1:14:8.380 --> 1:14:9.290
Gean Na
Can you walk us through it?
1:14:9.820 --> 1:14:10.290
Jeff Boschert
Yeah.
1:14:10.300 --> 1:14:11.150
Jeff Boschert
Can you see my screen?
1:14:11.160 --> 1:14:12.530
Jeff Boschert
This is D 3034.
1:14:12.540 --> 1:14:20.950
Jeff Boschert
It's it's again 08 version, but you know this is the ASTM for the manufacturer PVC pipe for 3526.
1:14:21.810 --> 1:14:25.300
Jeff Boschert
Umm, you know this is this is the dimension of the pipe.
1:14:25.310 --> 1:14:27.950
Jeff Boschert
The average OD you got minimum wall thickness.
1:14:28.640 --> 1:14:29.80
David Badgley
The.
1:14:27.960 --> 1:14:29.580
Jeff Boschert
This is in the actual standard.
1:14:34.90 --> 1:14:35.610
David Badgley
The.
1:14:30.780 --> 1:14:36.740
Jeff Boschert
You know you scroll all the way down here within the appendix, which is not part of the standard.
1:14:37.10 --> 1:14:37.960
Jeff Boschert
The appendices.

1:14:42.990 --> 1:14:43.670
David Badgley
The.
1:14:38.390 --> 1:14:50.160
Jeff Boschert
That's where they count for the base ID and this mandrel size and it's, you know, this statistical tolerance package, you know, this is what many jurisdictions that use this pipe.

1:14:50.250 --> 1:15:1.40
Jeff Boschert
They specify against this and because it's not the actual pipe size, what's in the physical standard is the actual dimensions of the pipe table.

1:15:1.50 --> 1:15:1.900
Jeff Boschert
One right here.
1:15:10.110 --> 1:15:10.710
David Badgley
The.
1:15:2.330 --> 1:15:15.300
Jeff Boschert
So again, this is the way the Green Book was based off this table for 20 some odd years and the way many other jurisdictions spell it out for mandrel sizing and all the mandrel manufacturers they make mandrels.

1:15:15.310 --> 1:15:19.160
Jeff Boschert
They're stock sizes based off this numbers in table one.
1:15:24.780 --> 1:15:25.930
Gean Na
Jeff, do they?
1:15:25.940 --> 1:15:33.700
Gean Na
Um have different um diameters on mandrel recommendations.
1:15:33.760 --> 1:15:46.130
Gean Na
I know churning, for example they have 5 and $7.5 \%$ but in that ASTM that you're looking at they they're they're just telling us what the average inside diameter should be, right?

1:15:46.190 --> 1:15:47.960
Jeff Boschert
Yeah, they show the average ID.

## 1:15:47.970 --> 1:15:53.100

Jeff Boschert
They show the this base ID number, which is the average ID minus that it's a.
1:15:53.150 --> 1:16:5.180
Jeff Boschert
It's a ohh a square root statistical tolerance package and then they give us $71 / 2 \%$ mandrel size within that appendices based off the base ID.

1:16:9.640 --> 1:16:14.540
Jeff Boschert
And within that, within the appendix of of each one of those PVC pipe standards.
1:16:15.210 --> 1:16:35.750
Raffie Yeremian
And and Gene per per per the last time I brought this up, journey said that they build their mandrels to the base ID per D3034 and I shared that drawing with the committee that showed that they stamp it you know per ASTM D3034 on the drawing of the mandrel itself.

1:16:35.860 --> 1:16:44.630
Raffie Yeremian
And so everything that they're building, this is the mandrel manufacturer is to the ASTM 3034, which is cured.

1:16:44.640 --> 1:16:49.430
Raffie Yeremian
The appendices at the bottom, which is part of the base ID again.
1:16:49.590 --> 1:16:54.70
Gean Na
But that, Jeff, I recall you saying it's based on the average ID.
1:16:54.80 --> 1:16:55.200
Gean Na
Now that I mishear you.
1:17:3.510 --> 1:17:3.940
Gean Na
OK.
1:17:4.10 --> 1:17:5.260
Gean Na
So they're on the same page.

## 1:16:54.850 --> 1:17:5.590

Jeff Boschert
No, the the the in that dependency, the $71 / 2 \%$ numbers are based on the base ID, not not the actual pipe size.

1:17:5.600 --> 1:17:10.40
Jeff Boschert
They're based off that base ID, which you know, I mean to pass with it.
1:17:10.50 --> 1:17:18.800
Jeff Boschert
Just it just gives the installer more leniency on put the pipe in the ground if the owner doesn't realize that, hey, he's he, he can get away with.

1:17:18.810 --> 1:17:23.40
Jeff Boschert
Uh, you know, putting the little quicker and faster and and walking away so.
1:17:23.990 --> 1:17:31.830

## Gean Na

And I believe Greenbook is the one that conflicts right now with Turney and along with ASTM D3034, right?

1:17:32.970 --> 1:17:44.480
Jeff Boschert
Well, greenbook Scott, depending on the size they spell out either a $4 \%$ or $5 \%$ based on the pipe size and you know they've got some charts and some of their product guides.

1:17:44.490 --> 1:17:51.850
Jeff Boschert
But you know, they make mandrels based on they have part numbers based on all kinds of dimensions.
1:17:52.60 --> 1:17:53.630
Jeff Boschert
They have some based on base ID.
1:17:53.640 --> 1:17:56.390
Jeff Boschert
They have some based on average ID.
1:17:57.120 --> 1:18:3.890
Jeff Boschert
I'm not sure if they got one big product guide, but I think I I have a couple here that are based off of average ID.

1:18:3.900 --> 1:18:5.60
Jeff Boschert
The actual pipe size.
1:18:7.340 --> 1:18:12.250
Raffie Yeremian
Really, I shared last week again or last meeting the the one from Cherney, right?
1:18:12.260 --> 1:18:19.560
Raffie Yeremian
And it they had the I think I even showed you that chart with the average ID based on D3034.
1:18:20.600 --> 1:18:44.360
Raffie Yeremian
Um, yeah, they can make custom and and it and D 3034 does say they use $71 / 2 \%$ as the example, but they definitely say that you can choose what percentage you want, but they say any percentage that you choose should be off that base ID and they for example, they stock off the shelf for $5 \%$ deflection, which is pretty common.

1:18:44.400 --> 1:19:1.80
Raffie Yeremian
I I know for a fact that Irvine Ranch Water District, where where probably who probably has the most PVC installed um in in the in the three counties around us, they use a $5 \%$ on D3034 and F679.

1:19:1.320 --> 1:19:12.880

## Raffie Yeremian

So they, you know, I mean maybe we could get some of those agencies involved in, in the conversation, even though they don't necessarily use Green book, but they have their own internal standards where they're putting a lot of this material in the ground.

1:19:14.660 --> 1:19:15.420
Jeff Boschert
Yeah, sounds great.
1:19:19.720 --> 1:19:20.550
Gean Na
Uh, brooks?
1:19:20.560 --> 1:19:21.650
Gean Na
I know you're here.
1:19:21.700 --> 1:19:23.470
Gean Na
Hopefully you're still here with us.

1:19:23.790 --> 1:19:24.500
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
Yep, I'm still here.
1:19:24.0 --> 1:19:25.210
Gean Na
Have you heard?
1:19:25.280 --> 1:19:32.760
Gean Na
You know, you being with unibell, is there anything that was said today that you felt was incorrect or agree with?

1:19:45.890 --> 1:19:46.270
David Badgley
The.
1:20:3.250 --> 1:20:3.480

## David Badgley

The.
1:19:31.730 --> 1:20:5.330
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
Ah, I would like to to have a look at that, that document that Jeff provided, I haven't seen that uh prior to now I know we have a older older document from that that talked about mandrel and and that basis that accuracy with base IDs and the not the tolerances but the actual accuracy of the mandrel themselves with regard to umm the base IDs of from a while back I'd have to I'd have to go find that.

1:20:5.340 --> 1:20:11.430
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
I don't know if I've if I don't know if that's the one I sent in a couple uh meetings ago.
1:20:11.440 --> 1:20:12.240
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
Worth that was a different.
1:20:17.190 --> 1:20:24.860
Gean Na
So, uh, Jeff, I mean, I could share this one pager that you have and we can table the discussion to next month.

1:20:26.300 --> 1:20:29.810
Gean Na
I did reach out to Cherney RAFFIE.

1:20:29.820 --> 1:20:33.650
Gean Na
Thanks for sharing that contact with him on PE just responded back to me.
1:20:33.700 --> 1:20:42.510
Gean Na
I'm gonna ask him to be at our meeting next month, but the other thing that I wanna be cognizant of is the the the time of the year that we're at right now.

1:20:43.160 --> 1:20:44.970
Gean Na
It is October soon.
1:20:45.20 --> 1:20:46.430
Gean Na
September, now October's next month.
1:20:47.520 --> 1:20:50.250
Gean Na
And it worked to correct this table.
1:20:51.20 --> 1:20:58.740
Gean Na
I'm afraid we may not have that time to get it into the 2024 edition, but I would love to if it needs to be corrected.

1:20:59.850 --> 1:21:1.840
Gean Na
Umm, I what?
1:21:1.850 --> 1:21:8.120
Gean Na
Regardless of the 2024 book I I I, I'd like to just get this agreed upon by the subcommittee.
1:21:9.390 --> 1:21:18.630
Gean Na
Uh, the JF if you wanna gather in a smaller group to have a more detailed discussion, I'm up for it.
1:21:19.40 --> 1:21:20.550
Gean Na
It doesn't have to be next month.
1:21:21.90 --> 1:21:21.370
Jeff Boschert
OK.

1:21:21.300 --> 1:21:22.580
Gean Na
It could be sometime in between.
1:21:23.870 --> 1:21:36.660
Gean Na
I think what would really help and gathering these references and putting into one package all Kent give us before was a lot of discussion.

1:21:38.390 --> 1:21:52.350
Gean Na
Obviously, a lot of debate and then he had a couple tables, but from my perspective it's a little difficult to go from one place or another and jump around and and it's difficult to just sit down and see the connection.

1:21:52.890 --> 1:21:53.90
Jeff Boschert
Yeah.

1:21:53.260 --> 1:22:0.510

## Gean Na

So I again, I think what would really help is maybe have a separate Word document and take snapshots of the ASTM's.

## 1:22:1.400 --> 1:22:3.230

## Gean Na

And have everything in one spot.
1:22:3.680 --> 1:22:4.960
Gean Na
It would help someone like me.
1:22:4.970 --> 1:22:10.600
Gean Na
That's not deep into the world of, you know, TVC pipe and and those ASTM's.
1:22:12.900 --> 1:22:16.210

## Gean Na

So if you wanna wait till the next month meeting we we can.
1:22:16.260 --> 1:22:29.50
Gean Na
Or if you wanted to gather in a smaller group, we could now the reason why I bring that up is that was something that I suggested last month and after we had some people interested in this task group.

1:22:29.240 --> 1:22:32.250
Gean Na
That is when Kent said forget it that this on hold.
1:22:34.510 --> 1:22:34.770
Jeff Boschert
OK.
1:22:32.910 --> 1:22:38.430
Gean Na
So it's obviously important and then you can tell people care about this discussion.
1:22:38.820 --> 1:22:45.830
Gean Na
Obviously it's heated, but it's important, so I'll I'll leave it up to you and Kent on on how you guys wanna move forward with this.

1:22:45.840 --> 1:22:46.100
Jeff Boschert
OK.
1:22:45.980 --> 1:22:49.240
Gean Na
But there are people that are interested to have a more detailed discussion.
1:22:50.420 --> 1:22:50.880

## Raffie Yeremian

A gene.
1:22:51.740 --> 1:22:52.670
Gean Na
Yeah, go ahead, RAFFIE.
1:22:53.580 --> 1:22:53.820
Raffie Yeremian
A.

1:23:6.950 --> 1:23:7.200
Gean Na
Umm.
1:22:54.860 --> 1:23:18.210

## Raffie Yeremian

You know what this is really monopolized latter half of the year of this, of this committee's time on on this thing and and I kept bringing it up on the last couple meetings about, you know, the Green Book Charter, you know, of of, you know, constantly moving towards general acceptance, constantly moving towards, you know that the latest practices in the field and and the latest means and methods.

1:23:19.10 --> 1:23:49.600

## Raffie Yeremian

And I can't help but think when I think about this, when I think about these, the three that Kent has started with and and Jeff's advocating for here, I can't help but look at it on from a broader perspective that that there are not in the spirit of that intent, I don't necessarily think that these are going to make for example, the use of plastic pipe more readily available for for member agencies or they're gonna clarify the use of these things.

1:23:49.700 --> 1:23:53.560
Raffie Yeremian
On the contrary, I think it's gonna create just more muddied waters than down the line.
1:23:53.720 --> 1:23:55.460

## Raffie Yeremian

And I'm not a plastic pipe advocate.
1:23:55.470 --> 1:24:5.800

## Raffie Yeremian

I'm a contractor advocate and I'm here because I realized at the end of the day, if people are ambivalent about these changes, they're gonna end up getting passed.

## 1:24:5.810 --> 1:24:44.240

## Raffie Yeremian

And when they do get passed, it's going to create a lot of downstream pressure around contractors because again, we will have to procure stuff that is built to a national standard and then somehow regionally have to explain to our customers why we can't meet this greenbook standard and and for those of you don't know, outside of public agencies, a lot of private land development engineers who whose all use thermoplastic pipe, for example any university job, any commercial job that we're on is going to use plastic pipe for both the drainage and the sewer on side $95 \%$ of the time.

1:24:45.190 --> 1:24:52.760
Raffie Yeremian
And when they do, they will always 9 times out of 10 they use the green book as a reference and as a contractor member of the GREENBOOK committee.

1:24:53.70 --> 1:24:56.760
Raffie Yeremian
I've been pushing that on design builds that I've been part of.
1:24:56.770 --> 1:24:57.450

Raffie Yeremian
I've been pushing.
1:24:57.460 --> 1:24:58.570
Raffie Yeremian
Hey, we should use the green book.

1:24:58.580 --> 1:24:59.650

## Raffie Yeremian

You know it's a good standard.
1:24:59.660 --> 1:25:5.300
Raffie Yeremian
We should use the Green Book but but I I certainly won't be looking to do that if we start introducing.
1:25:7.290 --> 1:25:11.640
Raffie Yeremian
You know, standards that are outside of national, ASTM and national standards.
1:25:12.0 --> 1:25:20.420
Raffie Yeremian
And unless I mean, I I I have yet to hear a single agency stand up and say we want this change, we need this change.

1:25:20.510 --> 1:25:24.100
Raffie Yeremian
We have a serious problem with deflection and thermoplastic pipe.
1:25:24.270 --> 1:25:29.580
Raffie Yeremian
I have not heard one agency step up to the plate and say we have this issue right now.
1:25:29.590 --> 1:25:31.540
Raffie Yeremian
All I've heard is is clay pipe.
1:25:31.710 --> 1:25:46.440

## Raffie Yeremian

Make this an issue and the and no one else, so I definitely would love to hear from agencies that are having problems with with plastic pipe install and mandrels and will not because I've yet to hear it's been completely silenced at this point.

1:25:46.550 --> 1:26:2.80
Raffie Yeremian
So if there is, I'd love to hear it and I'd love to be part of a working group to help resolve those issues, but until then, I I just feel that at the end of the day, these these changes are going to create a lot of downstream pressure on contractors.

1:26:2.90 --> 1:26:5.860
Raffie Yeremian
We're gonna have to try to balance all these different standards against one another.

1:26:9.40 --> 1:26:11.980
Fernandez, Dickie
I'll I'll speak up for Orange County Sanitation district.
1:26:14.420 --> 1:26:56.510
Fernandez, Dickie
We currently use for the most part $95 \%$ of the time we use clay pipe, but we're opening to the idea of uh, selectively using plastic pipe while we happy before us, it looks like the Green Book made some errors back in 2015 when some changes were made which were allegedly not documented as as good as they should have, and we have some discrepancies and I I I will say that what Jeff and Kent are bring up our value points and you know I say it's our duty to look at them and see if they do make sense and then we make a decision as a group.

1:26:56.700 --> 1:27:3.50
Fernandez, Dickie
I think we should involve also the mandrel manufacturers I mentioned this to Jeff separately.
1:27:3.60 --> 1:27:6.20
Fernandez, Dickie
I said, hey you, you need to get those manufacturers involved too.
1:27:7.370 --> 1:27:12.370
Fernandez, Dickie
Have but I I I don't see that there's any harm in looking at it and analyzing it.
1:27:13.940 --> 1:27:18.20
Fernandez, Dickie
So as an agency I I support, at least evaluating it.
1:27:25.890 --> 1:27:26.190
Gean Na
Thanks.
1:27:26.200 --> 1:27:26.740
Gean Na
Sticky.
1:27:26.830 --> 1:27:33.540
Gean Na
Um, any other discussion on on on this topic of and inside diner interior diameter?
1:27:34.760 --> 1:27:35.560
Gean Na
Inside diameter.

1:27:39.0 --> 1:27:39.970
Jeff Boschert
Gene off this.
1:27:39.980 --> 1:27:50.970
Jeff Boschert
Yeah, I'll send you the at that one pager that I that I showed on the screen today and you can distribute it to the group and and and and see where it goes.

1:27:51.720 --> 1:27:52.20
Gean Na
OK.
1:27:54.210 --> 1:27:55.870
Gean Na
Yeah, I'll definitely do that.
1:27:55.990 --> 1:28:2.360
Gean Na
And you know, if you want to have another discussion in between now and October meeting, just let me know.

1:28:2.370 --> 1:28:2.740
Gean Na
I can.
1:28:2.930 --> 1:28:7.680
Gean Na
There are people that want to discuss and and more finer detail.
1:28:9.750 --> 1:28:10.50
Jeff Boschert
OK.
1:28:7.690 --> 1:28:10.670
Gean Na
I know we got to pretty deep here today, but just let me know.
1:28:10.680 --> 1:28:16.940
Gean Na
I'll be in contact with you and Kent and I appreciate everyone weighing in on this subject matter as well.
1:28:18.380 --> 1:28:27.790
Gean Na
I I do really like what Raffi said in referencing what Eric said in the past about we needing to rely on the national standards, which is ASTM.

1:28:28.400 --> 1:28:36.380
Gean Na
But Dickie is right that we did fine errors and we don't know why or how that happened.
1:28:36.770 --> 1:28:41.590
Gean Na
And and of course, vandalizing it doesn't hurt us, and if we found errors, that's correct. It.
1:28:42.670 --> 1:28:49.120
Gean Na
Uh, I think some of the changes that Kent is proposing right now could make a a dramatic impact to the industry.

1:28:49.130 --> 1:28:53.450
Gean Na
Like RAFFIE is afraid of, but I think the dynamic dimensions.
1:28:54.390 --> 1:28:56.980
Gean Na
Uh, you know, can be corrected if they are wrong.
1:28:57.50 --> 1:28:58.450
Gean Na
And and that's how I feel about it.
1:28:59.720 --> 1:29:1.940
Gean Na
Uh, OK.
1:29:1.950 --> 1:29:7.30
Gean Na
Umm is there anything else on those 3 proposed changes from the Clay Pipe Institute?
1:29:8.110 --> 1:29:8.540
David Badgley
The.
1:29:9.150 --> 1:29:9.580
Jeff Boschert
You know, I've.
1:29:9.590 --> 1:29:11.780
Jeff Boschert
I've forgotten nothing else on the on the other two.
1:29:11.600 --> 1:29:11.850
Gean Na
OK.

1:29:13.0 --> 1:29:18.530
Gean Na
Alrighty, I know we're two past two minutes past they're meeting time, so I appreciate you guys all being here today.

1:29:19.440 --> 1:29:26.250
Gean Na
I will keep everyone afloat on what's going on with change 284 and and they'll be.
1:29:26.410 --> 1:29:29.160
Gean Na
I'll I'm gonna redistribute that at the end of the week.
1:29:29.790 --> 1:29:34.480
Gean Na
The main committee is meeting this Thursday and I'm sure we'll talk about that a lot.
1:29:36.30 --> 1:29:40.760
Gean Na
Our next meeting is October 17th and I am just double checking the dates.
1:29:41.30 --> 1:29:42.360
Gean Na
Yep, that's 17th.
1:29:43.10 --> 1:29:46.930
Gean Na
And then we have another follow up meeting in November that should conclude the year.

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1:29:48.380 --> 1:29:49.930
Gean Na
Umm, I guess what else is there?
```

1:29:51.510 --> 1:29:52.20
Gean Na
Yeah, I'll.
1:29:52.30 --> 1:29:57.40
Gean Na
I'll definitely keep in contact, especially with the agencies involved here.
1:29:57.100 --> 1:30:11.80

## Gean Na

Again, going back to 284, we we need you guys to look at this stuff, this 284 proposed change and without you guys looking at it, it's gonna be a lot of bit harder to vote it and approve it when it gets to the main committee.

1:30:11.130 --> 1:30:14.230
Gean Na
So I appreciate everyone's time today.
1:30:14.550 --> 1:30:17.60
Gean Na
Hope you guys have a good rest of your week and you guys take care.
1:30:17.620 --> 1:30:18.20
Jacquie Jaques
Great.
1:30:18.10 --> 1:30:18.660
Fernandez, Dickie
Thanks gene.
1:30:18.30 --> 1:30:18.750
Jacquie Jaques
Thanks gean.
1:30:19.10 --> 1:30:19.260
Jacquie Jaques
Bye bye.
1:30:18.730 --> 1:30:19.310
Fernandez, Dickie
Thank you, Ron.
1:30:19.10 --> 1:30:19.670
Gean Na
Yeah, but everyone.
1:30:19.670 --> 1:30:20.170
Raffie Yeremian
Thanks gene.
1:30:20.660 --> 1:30:21.100
Brooks Ryan (Uni-Bell PVC Pipe Assn.)
Thanks, Jane.
1:30:20.550 --> 1:30:21.160
Jeff Boschert
Thank you, Jane.
1:30:20.630 --> 1:30:21.180
Giljum, Mark
Maybe June?

1:30:22.740 --> 1:30:23.820
David Badgley
Hey, Gene, this is Dave.
1:30:27.620 --> 1:30:28.150
Gean Na
OK.

1:30:23.830 --> 1:30:29.420
David Badgley
I sent you a link to the file again, but I'd rather show.
1:30:28.520 --> 1:30:31.520
Gean Na
Ohh, you're talking about the references to other agencies, right?
1:30:31.890 --> 1:30:32.340
David Badgley
Yeah.
1:30:32.410 --> 1:30:32.820
David Badgley
Yeah.

1:30:33.240 --> 1:30:33.500
Gean Na
OK.

1:30:32.830 --> 1:30:39.230
David Badgley
So it kind of shows how we got to where we are now and it was agency yo involvement on all that.
1:30:40.970 --> 1:30:42.80
Gean Na
OK, sure.
1:30:42.890 --> 1:30:46.470
Gean Na
I think some people would like like to know if they weren't there in the past, like Dickie.
1:30:46.410 --> 1:30:46.860
David Badgley
Yeah.

1:30:47.170 --> 1:30:47.700
David Badgley
Yeah.

1:30:47.970 --> 1:30:49.570
David Badgley
So I think it's a good thing to have in there.
1:30:51.100 --> 1:30:53.930
Gean Na
Yeah, I I think so too, I I.

1:30:53.30 --> 1:30:55.800
David Badgley
Even when we go to the joint committee, go.
1:30:58.460 --> 1:30:58.720
Gean Na
Yeah.

1:31:0.70 --> 1:31:0.400
Gean Na
OK.
1:31:0.410 --> 1:31:1.670
Gean Na
But hey, Dave, Dave.
1:31:1.720 --> 1:31:8.620
Gean Na
So, David, Jamie, you guys are the last ones here at this meeting, David, this stuff that's outstanding in that document.

1:31:9.120 --> 1:31:9.460
David Badgley
Uh-huh.

1:31:9.170 --> 1:31:12.780
Gean Na
Please please please please please like address them.
1:31:13.640 --> 1:31:14.150
David Badgley
Yeah, I.
1:31:13.600 --> 1:31:18.190
Gean Na
So the things that are highlighted not in yellow needs to be finalized.
1:31:20.280 --> 1:31:20.460
David Badgley
Yeah.

1:31:18.200 --> 1:31:24.190
Gean Na
Everything that's yellow is more or less done, but if there's a purple highlight or a blue highlight, it needs another pass.

1:31:24.880 --> 1:31:25.60
David Badgley
Yeah.
1:31:25.320 --> 1:31:28.500
Gean Na
Uh, and I've mentioned this to you and Jamie and other people.
1:31:29.410 --> 1:31:35.970
Gean Na
There's like 6 people looking at this from editorial and BNI they're already going.
1:31:36.520 --> 1:31:36.740
David Badgley
Yep.
1:31:36.270 --> 1:31:48.40
Gean Na
So as we make our final changes, it just makes it harder to catch up with them and say, OK, we have a last minute change guys, but I know there's gonna be last minutes, but I can't wait for you to be done, Dave.

1:31:48.380 --> 1:31:48.580
David Badgley
Yeah.
1:31:48.530 --> 1:31:50.290
Gean Na
So please be done by like.
1:31:52.20 --> 1:31:52.820
Gean Na
This week.
1:31:53.130 --> 1:31:53.460
David Badgley
I'll.
1:31:58.350 --> 1:31:59.60
Gean Na
OK.

1:31:53.530 --> 1:31:59.450
David Badgley
I'll be I'll be back in town again on on this weekend, so I'll work on.
1:31:59.110 --> 1:32:3.270
Gean Na
Dave, I I don't mean to be rude, but you've said that because zillion times so.

1:32:2.860 --> 1:32:7.690
David Badgley
I don't, I know, but I bought off to another adventure.
1:32:8.380 --> 1:32:9.90
Gean Na
Yeah.

1:32:9.260 --> 1:32:14.810
Gean Na
OK, I know you don't get paid handsomely for your efforts towards green books, but so I thank you for that.

1:32:14.820 --> 1:32:18.410
Gean Na
But at the same time, let's get this thing behind us.
1:32:16.370 --> 1:32:18.960

## David Badgley

Oh yeah, we got it, yeah.
1:32:20.520 --> 1:32:22.290
Gean Na
I don't get paid anymore than you do for Green Book.
1:32:22.690 --> 1:32:23.290
David Badgley
I know, I know.
1:32:25.160 --> 1:32:25.710
Gean Na
OK.

1:32:27.440 --> 1:32:27.800
David Badgley
OK.
1:32:26.20 --> 1:32:28.450
Gean Na
I appreciate it guys, I really do.

1:32:29.380 --> 1:32:30.60
Gean Na
There there should.
1:32:30.70 --> 1:32:33.970
Gean Na
There should be like a green book Lifetime Achievement award and you guys both get it.
1:32:34.150 --> 1:32:34.320
David Badgley
Yeah.
1:32:34.180 --> 1:32:36.820
Gean Na
It doesn't exist, but it exists in my in my mind.
1:32:37.550 --> 1:32:37.750
David Badgley
It.
1:32:39.270 --> 1:32:40.0
Gean Na
OK guys.
1:32:40.10 --> 1:32:41.770
Gean Na
I'll let you guys go have a have a good day.
1:32:42.400 --> 1:32:42.680
David Badgley
OK.
1:32:43.420 --> 1:32:43.930
David Badgley
Thanks guys.
1:32:43.470 --> 1:32:44.490
Gean Na
I, Jamie, I, David.
1:32:44.290 --> 1:32:45.990
David Badgley
At the car up and heading to Crestline.
1:32:47.130 --> 1:32:48.40
Gean Na
I don't even know where that is.

1:32:48.50 --> 1:32:48.700
Gean Na
Where's crestline?
1:32:49.120 --> 1:32:49.840
David Badgley
Up by Big Bear.
1:32:50.820 --> 1:32:52.80
Gean Na
Oh yeah, that's a nice area.
1:32:52.80 --> 1:32:53.430
David Badgley
Girl up there.
1:32:54.510 --> 1:32:55.900
Gean Na
Uh, OK.
1:32:56.790 --> 1:32:57.40
Gean Na
Yeah.
1:32:57.50 --> 1:32:57.540
Gean Na
Good luck.
1:32:57.610 --> 1:32:58.90
Gean Na
I'll see ya.
1:32:58.40 --> 1:32:58.330
David Badgley
OK.
1:32:58.730 --> 1:32:59.170
David Badgley
OK.
1:32:59.440 --> 1:33:0.750
David Badgley
Talk to you guys later. Bye.
1:32:59.820 --> 1:33:1.210
Gean Na
Alright, alright, goodbye.

