# UNDERGROUND MATERIALS AND METHODS SUBCOMMITTEE <br> November 14, 2023 <br> 11:00 a.m. <br> Via Microsoft Teams 

1. Call meeting to order
a. 11:03am
2. Self-introduction
a. Chiu (Alan) Tam - City of LA
b. Colin McCarter - LACDPW
c. Dave Badgley - Badgley \& Associates
d. Hersy Enriquez - City of San Diego
e. Mark Giljum - LACSD
f. Jacob Monroe - ADS
g. Jeff Boschert - NCPI
h. Rob Huning - City of LA
i. David Wangerin - EJ
3. Meeting minutes: http://www.greenbookspecs.org/minutes.asp
a. Motion CM/DB
4. Announcements, Correspondence and Summary of GB meetings
a. APWA Socal Greenbook Seminar complete
b. Wet Show 1/24-1/27
c. CWA P3S Conference - Industrial Waste (Anaheim, CA) - February
5. Old Business
a. 284UM Part 5
i. Review Draft. Prepare response to Editorial Committee
ii. Request for Agency input on measurement \& payment; Dave Badgley proposed LA County Sanitation language.
iii. Task Group Meeting 1/10/2023
b. 329UM Table 306-7.8.3.2 SDR 35 (Kent Carlson)
i. Discussion.
ii. Task Group: Jeff, David/EJ, Jensen (SD), Dickie (OCSD), Michael Lu Jason Pilgrim (IRWD). $12 / 5$ is proposed, time TBD.
c. 330UM Mandrel (Kent Carlson)
i. On Hold
d. 331UM 11 month 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)
i. Editorial Committee Review
6. New Business
a. Section 208-3 Gasket Compression Set for Concrete Pipe
b. Discuss discussion set max deflection for all materials.

Next Meeting: January 16, 2023
2024 Greenbook Underground Materials \& Methods Subcommittee Meetings:

| Jan | Feb | Mar | April | May | Jun | Jul | Aug | Sep | Oct | Nov |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 16 | 14 | 19 | 16 | 14 | 18 | 16 | 13 | 17 | 15 | 19 |

0:0:0.0 --> 0:0:7.590
Gean Na
Alright everyone, this is the Green Book Underground subcommittee meeting, November 14th, 2023.
$0: 0: 8.520-->0: 0: 12.520$
Gean Na
Welcome calling meeting to order 1103.
0:0:17.130 --> 0:0:19.470
Gean Na
Uh, self introductions, I will call.
0:0:20.510 --> 0:0:22.580
Gean Na
Guess the rather small little bit smaller group.
0:0:22.590 --> 0:0:25.800
Gean Na
Today we'll go top down well, Allen tab.
0:0:35.320 --> 0:0:36.390
Gean Na
Al and I can't hear you.
0:0:36.400 --> 0:0:37.200
Gean Na
Hopefully it's not me.
0:0:40.670 --> 0:0:42.200
Gean Na
We'll we'll skip on to call in.
0:0:42.210 --> 0:0:43.820
Gean Na
For now calling are you there?
0:0:44.310 --> 0:0:44.910
Colin McCarter
Good morning, gene.
0:0:45.870 --> 0:0:46.10
Gean Na
Yeah.
0:0:46.10 --> 0:0:47.420
Gean Na
Good morning, Alex.

0:0:47.430 --> 0:0:47.650
Gean Na
Happy.
0:0:48.270 --> 0:0:48.700
Gean Na
OK.

0:0:48.750 --> 0:0:50.880
Gean Na
And Alan, just FYI, we cannot hear you.
0:0:51.130 --> 0:0:53.610
Gean Na
So just go ahead and try to get your audio through.
0:0:53.620 --> 0:0:56.320
Gean Na
When you get that work and Dave Badgley.
0:0:57.750 --> 0:0:59.310
dbadge@aol.com
Yep, OK bad so bad.
0:0:59.320 --> 0:1:1.930
dbadge@aol.com
Too associates and performance pipeline technologies.
0:1:3.130 --> 0:1:4.180
Gean Na
Uh, hersey.
0:1:6.330 --> 0:1:7.80
Enriquez, Hersy
Hi everyone.
0:1:4.190 --> 0:1:7.170
Gean Na
Enrique enriquez.
0:1:7.150 --> 0:1:9.750
Enriquez, Hersy
I'm so I'm with the city of San Diego.
0:1:11.340 --> 0:1:13.90
Enriquez, Hersy
And the news associate engineers.

0:1:13.100 --> 0:1:16.890
Enriquez, Hersy
I'll be helping on yen with them, but the task force.
0:1:17.910 --> 0:1:18.340
Gean Na
Great.

0:1:18.410 --> 0:1:18.620
Gean Na
Yeah.

0:1:18.630 --> 0:1:18.970
Gean Na
Welcome.

0:1:19.460 --> 0:1:19.590
Enriquez, Hersy
And.
0:1:20.830 --> 0:1:21.250
Gean Na
Mark giljum.
0:1:22.420 --> 0:1:24.890
Giljum, Mark
You are giljum LA county sanitation districts.
0:1:26.160 --> 0:1:27.410
Gean Na
Uh, Jacob Monroe.
0:1:29.220 --> 0:1:31.170
Jacob Monroe
Hey, Jacob Monroe advance drainage systems.
0:1:32.670 --> 0:1:32.970
Gean Na
Jeff.
$0: 1: 35.790$--> 0:1:38.70
Jeff Boschert
He Jeff Boschert National Clay Pipe Institute.
0:1:40.710 --> 0:1:42.440
Gean Na
Gosh shirt.

0:1:42.690 --> 0:1:44.370
Gean Na
Is that right? Bosh.
0:1:46.120 --> 0:1:48.860
Jeff Boschert
You on the other side of the sea BIOS CHRT.
0:1:51.240 --> 0:1:53.270
Gean Na
Thank you, rob.
0:1:55.720 --> 0:1:57.500
Rob Huning
Rob Hunting, City of Valley design standards.
0:1:58.630 --> 0:2:0.240
Gean Na
OK, I see.
0:2:0.250 --> 0:2:1.520
Gean Na
David, you just joined us.
0:2:2.940 --> 0:2:4.270
David Wangerin
Yep, David Wangerin with J.
0:2:5.440 --> 0:2:6.270
Gean Na
Let's see if anyone else.
0:2:7.840 --> 0:2:11.200
Gean Na
So Alan, you're the only one that we can't hear today that just FYI.
0:2:11.20 --> 0:2:16.950
Chiu Tam (BOE DSIG)
Ohh yeah sorry Gene, I just fixed my mic so this is 2 Tam Alan from City of Los Angeles.
0:2:18.660 --> 0:2:19.470
Gean Na
OK, great.
0:2:19.720 --> 0:2:20.720
Gean Na
Is there anyone that I missed?

0:2:23.300 --> 0:2:23.660
Gean Na
OK.

0:2:25.290 --> 0:2:26.250
Gean Na
Uh, meeting minutes.
0:2:36.710 --> 0:2:36.920
dbadge@aol.com
Yeah.
0:2:26.930 --> 0:2:38.580
Gean Na
I did share the meeting minutes from last October and just another reminder and for those of you that are new to the group, umm, the the Microsoft Teams GREENBOOK meeting is being recorded.

0:2:38.590 --> 0:2:49.0
Gean Na
I have it automatically transcribed and I attached the transcription to the meeting minutes and I will just highlight, you know, key movements at our meeting.

0:2:49.10 --> 0:2:54.0
Gean Na
You know things that are voted on or decisions or and whatnot, just high level meeting minutes here.
0:2:54.310 --> 0:2:56.380
Gean Na
So that was shared last month.
0:2:57.690 --> 0:3:2.60
Gean Na
Umm any any comments to October's meeting minutes?
0:3:2.210 --> 0:3:7.670
Gean Na
I I don't believe we moved anything formally at any comments to it.
0:3:13.720 --> 0:3:15.900
Gean Na
OK, there are motion to approve minutes in October.
0:3:17.220 --> 0:3:17.910
Colin McCarter
This is Colin.

0:3:17.920 --> 0:3:18.670

## Colin McCarter

All motion to approve.
0:3:20.580 --> 0:3:20.940
Gean Na
2nd.

0:3:21.850 --> 0:3:23.90
dbadge@aol.com
This is Dave, all seconded.
0:3:23.770 --> 0:3:24.720
Gean Na
Conquer.
0:3:25.50 --> 0:3:25.340
Gean Na
OK.
0:3:25.350 --> 0:3:25.770
Gean Na
Thank you.
0:3:39.120 --> 0:3:39.650
Gean Na
OK.
0:3:39.720 --> 0:3:43.250
Gean Na
And as far as announcements, correspondence and summary.
0:3:44.700 --> 0:3:46.870
Gean Na
Uh, I guess I'll start off here.
0:3:47.60 --> 0:3:51.230
Gean Na
This is November, so this is the last meeting of the year of 2023.
0:3:51.750 --> 0:3:55.710
Gean Na
December, we will go dark, meaning no meeting.
0:3:56.120 --> 0:4:3.500
Gean Na
So we can all enjoy the holidays at that point and we will pick back up in January after the new year.

## 0:4:4.680 --> 0:4:10.680

Gean Na
That's January 16th, as will be our first meeting of 2024 uh.
$0: 4: 10.690$--> 0:4:18.20
Gean Na
Just, you know, last basically the last month was our last chance to get anything into the last.
0:4:18.170 --> 0:4:22.240
Gean Na
I'm sorry to get into the 2024 edition, so things are moving forward.
0:4:22.250 --> 0:4:34.150
Gean Na
We got a few things approved from the underground subcommittee and then what I also heard from Bill Mahoney is every year there will be an opportunity to get things into the supplemental.

0:4:35.310 --> 0:4:39.20
Gean Na
Um, I thought it was one supplemental between every book.
0:4:39.30 --> 0:4:41.220
Gean Na
But I'm hearing that it's once a year.
0:4:41.290 --> 0:4:50.890
Gean Na
Every year there will be a supplemental update so you know the the the big elephant in the room is change 284 , which is part five.

0:4:51.750 --> 0:5:3.340
Gean Na
We obviously didn't get all of our edits in in time for the 2024 printed edition, but we will work diligently to get it into the 2024 Slash 25 supplemental.

0:5:4.570 --> 0:5:16.610
Gean Na
So Dave, just putting that big pin slash star slash highlight for you that let's let's get let's get it done and that means we have six months 6 meetings.

0:5:17.680 --> 0:5:17.870
Gean Na
Umm.
0:5:17.880 --> 0:5:23.210
Gean Na
So we're gonna discuss some things today related to Part 5 after the announcements.

0:5:23.220 --> 0:5:36.230
Gean Na
But Dave, we we just got to stay on it and I think it'll make sense if we have a standing task group on it where we meet a week or two before this meeting.

0:5:36.240 --> 0:5:37.800
Gean Na
So maybe the beginning of every month.
0:5:40.990 --> 0:5:41.170
dbadge@aol.com
Yeah.
0:5:38.880 --> 0:5:42.850
Gean Na
Otherwise, we'll we will never be done and we'll be talking about this in 2034.
0:5:43.70 --> 0:5:43.210
dbadge@aol.com
Yeah.

0:5:44.320 --> 0:5:47.470
Gean Na
Um, so that that's what I proposed for that.
0:5:47.800 --> 0:5:53.0
Gean Na
Aside from that, I I I guess I don't have any other announcements for the group.
0:5:54.380 --> 0:5:57.200
Gean Na
Is there anything that you guys wanted to share before we get into?
0:5:59.120 --> 0:6:0.470
Gean Na
And at the old business and changes.
0:6:2.60 --> 0:6:3.100
dbadge@aol.com
Yeah, this is Dave.
0:6:3.110 --> 0:6:11.210
dbadge@aol.com
The we had the the APWA meeting on the Green Book for the whole week.
0:6:11.780 --> 0:6:16.270
dbadge@aol.com
Last week, I think it was maybe the week before, but it went really well.

0:6:16.280 --> 0:6:17.810
dbadge@aol.com
We had really great attendance.
0:6:17.820 --> 0:6:23.870
dbadge@aol.com
I think it was the biggest attendance that we've had and all the talks are have been submitted.
0:6:23.880 --> 0:6:37.850
dbadge@aol.com
I think now and they will post them online so people can go back and and look at those and then coming up in January is the the wet show in Indianapolis.

0:6:38.240 --> 0:6:43.370
dbadge@aol.com
And I'll be talking on pipe rehab and promoting the Green Book at that.
0:6:43.580 --> 0:6:46.10
dbadge@aol.com
That's the 24th to the 27th.

0:6:46.880 --> 0:6:52.450
dbadge@aol.com
And then CWA has their P3S conference, which is.
0:6:54.530 --> 0:7:0.170
dbadge@aol.com
The industrial waste people and that'll be an Anaheim this year in February.
0:7:2.290 --> 0:7:3.190
dbadge@aol.com
And that's about it.
0:7:4.600 --> 0:7:4.880
Gean Na
OK.
0:7:4.890 --> 0:7:5.720
Gean Na
Thanks for sharing, Dave.
0:7:7.330 --> 0:7:7.790
Gean Na
Uh, yeah.
0:7:8.190 --> 0:7:8.910
dbadge@aol.com
The.

0:7:7.800 --> 0:7:9.860
Gean Na
I just want to touch a little bit more on the Greenbook seminar.
0:7:9.870 --> 0:7:13.910
Gean Na
So there's, um, a lady named Jennifer that's taking over Trish for the seminar.
0:7:15.940 --> 0:7:23.520
Gean Na
She's also in the process of updating the seminar presentation format, so just pinging new on that Dev.
0:7:24.740 --> 0:7:29.740
Gean Na
Along with CORINA Wong and Nathan Forrest and others that's involved.
0:7:30.170 --> 0:7:32.880
Gean Na
But we're just gonna go and try to update the seminar.
0:7:33.150 --> 0:7:47.860
Gean Na
The the other thing that I think is worth noting here is, you know, I was talking to to Jennifer about this seminar, and we're hoping to get some feedback from the attendees and to see if what the attendees felt.

0:7:48.350 --> 0:7:52.960
Gean Na
You know, we could emphasize a little bit more on so happy to take any of your guys's input.
0:7:52.970 --> 0:8:2.190
Gean Na
Just give me a call or call Jennifer or send us a note to email and just let us know if you feel like there's things at the seminar should cover more for Green Book.

0:8:4.410 --> 0:8:5.100
Gean Na
Umm OK.
0:8:5.110 --> 0:8:6.930
Gean Na
Any questions there before we get into old business?
0:8:7.850 --> 0:8:8.820
dbadge@aol.com
Yeah, this is Dave.

0:8:8.830 --> 0:8:12.460
dbadge@aol.com
Just one comment, our speakers were amazing this year.
0:8:12.690 --> 0:8:19.800
dbadge@aol.com
I mean from when the time that Eric and I have been doing this for the last 15 years, I guess maybe so.
0:8:19.810 --> 0:8:25.530
dbadge@aol.com
But what the range of new speakers and stuff everybody did a great job on all the stuff that they were doing.

0:8:29.970 --> 0:8:30.760
Gean Na
Thanks, Dave.
0:8:30.770 --> 0:8:31.100
Gean Na
OK.

0:8:31.110 --> 0:8:33.390
Gean Na
Move it on to old business.
0:8:35.680 --> 0:8:45.410
Gean Na
So I we have the kind of the same agenda as last month, every one we have part five, we have the table for the mandrel.

0:8:45.490 --> 0:9:0.600
Gean Na
We have two items that we are quote unquote put on hold and we have this last item that was um with editorial committee and then we have a new item here that I wanted to initially present to the group here today, but we won't be getting into the weeds for this.

0:9:1.570 --> 0:9:3.690
Gean Na
Um, So what?
0:9:3.700 --> 0:9:12.360
Gean Na
Part five, as I mentioned earlier, uh, we will do our best to get this into the supplemental between 24 and 25.

0:9:13.290 --> 0:9:22.520
Gean Na

Um, Dave, I I'm requesting that we pick a date at the beginning of the month like the first week of the month.

0:9:28.270 --> 0:9:29.130
dbadge@aol.com
Yeah, that would work.
0:9:22.710 --> 0:9:39.530
Gean Na
That way it's a about a week or two before this meeting and we just stay on top of that and and and I guess in my mind, we basically have a quarter or $1 / 4$ and $1 / 2$ call it four to six months to wrap everything up.

0:9:39.620 --> 0:9:43.270
Gean Na
And as we're near complete, get it back to editorial.
0:9:43.820 --> 0:9:47.740
Gean Na
We did receive a round of comments from editorial, which we reviewed last month.
0:9:49.10 --> 0:9:55.190
Gean Na
Um, so I don't know if we need to address the comments here as a group, but maybe it's what the task group.

0:9:56.220 --> 0:10:3.820
Gean Na
Uh respond to the comments, but everything needs to come back to this subcommittee, too, and eventually go back to editorial.

0:10:3.870 --> 0:10:6.440
Gean Na
So you know, you know how long it takes to go back and forth?
0:10:7.350 --> 0:10:14.790
Gean Na
Umm so I I at your request you wanted to address the payment language today, right?
0:10:19.340 --> 0:10:19.960
Gean Na
OK, let's.
0:10:14.480 --> 0:10:24.530
dbadge@aol.com
Yeah, I want to do everything from 8 to 14 , but the but the payment to you like I sent you a note on on that, I think, yeah.

0:10:28.640 --> 0:10:28.900
Gean Na
OK.

0:10:24.540 --> 0:10:31.980
dbadge@aol.com
We stumbled around on the wording for that thing a little bit, but LA county public, LA County Sand has some good boarding in there.

0:10:32.130 --> 0:10:35.570
dbadge@aol.com
Thing that I I've you know, sent you separate so.
0:10:37.280 --> 0:10:37.560
Gean Na
OK.
0:10:39.670 --> 0:10:40.520
Gean Na
Let me get this up.
0:11:5.60 --> 0:11:8.70
Gean Na
OK, so this is the version that I received from editorial.
0:11:8.440 --> 0:11:10.120
Gean Na
I'm gonna just keep this for record.
0:11:11.510 --> 0:11:12.810
Gean Na
I'm just going to create a new item.
0:11:14.800 --> 0:11:15.400
Gean Na
For new file.
0:11:46.740 --> 0:11:49.700
Gean Na
So the Debbie wanted to look at end seals together, right?
0:11:51.240 --> 0:11:51.710
dbadge@aol.com
Right.
0:11:51.720 --> 0:11:53.810
dbadge@aol.com
No, that's payment. But everything.

0:11:53.820 --> 0:11:57.710
dbadge@aol.com
Yeah, everything from item 8 to 14 .
0:11:58.160 --> 0:12:11.100
dbadge@aol.com
So last time we did one through 6 and then seven is all the individual is the rehab methods but then 8 to 14 are the are all the things that were referring to.
$0: 12: 14.540-->0: 12: 16.560$
Gean Na
OK, you guys can see this right or you can do.
0:12:17.350 --> 0:12:17.530
dbadge@aol.com
Yeah.
$0: 12: 19.110$--> 0:12:22.430
Gean Na
OK, so uh here's here's Section 8 for you.
0:12:37.290 --> 0:12:39.150
Gean Na
Is there anything in particular that you wanted to discuss?
0:12:39.640 --> 0:12:40.970
dbadge@aol.com
No, not yeah.
0:12:40.980 --> 0:12:47.590
dbadge@aol.com
Not particularly that the, you know the the numbering system will have to figure out, you know.
0:12:47.600 --> 0:12:52.230
dbadge@aol.com
But as we get it all together, then we'll get the the numbering figured out.
0:12:52.240 --> 0:12:55.440
dbadge@aol.com
I was getting way too far on numbers.
0:12:56.210 --> 0:12:57.360
Gean Na
What do you mean by that, Dave?
0:12:57.370 --> 0:12:59.810
Gean Na
I thought the numbers systems all established.

0:12:57.970 --> 0:13:0.120
dbadge@aol.com
O no.
0:13:0.130 --> 0:13:13.410
dbadge@aol.com
But when I do like the the at the bottom there we got 504.4 point 2.3 and so it got yeah it got walking in those areas.

0:13:13.650 --> 0:13:20.990
dbadge@aol.com
So it's the the the title is OK, but then the individual sections I got one.
0:13:20.630 --> 0:13:21.0
Gean Na
OK.
0:13:21.10 --> 0:13:22.720
Gean Na
Well, let's address that right now, Dave.
0:13:22.910 --> 0:13:23.170
dbadge@aol.com
OK.
0:13:22.730 --> 0:13:23.650
Gean Na
I know.
0:13:23.960 --> 0:13:29.910
Gean Na
So before we get to this, are are you comfortable with what I'm highlighting here?
0:13:31.470 --> 0:13:31.610
dbadge@aol.com
Yes.

0:13:32.400 --> 0:13:34.420
Gean Na
Uh, call and have a question for you.
0:13:36.350 --> 0:13:41.940
Gean Na
Did when you and um Charles review this, did you guys get to this section yet?
0:13:43.330 --> 0:13:44.740
Colin McCarter
I don't think so.

0:13:44.890 --> 0:13:47.560

## Colin McCarter

I didn't make it to the editorial meeting last Thursday.
0:13:49.100 --> 0:13:50.640
Gean Na
Yeah, yeah, yeah.

0:13:47.570 --> 0:13:51.110
Colin McCarter
I'm not sure what they got to at that point.
0:13:50.650 --> 0:13:54.750
Gean Na
I don't think this was addressed at this month's meeting, but it was the last round.

0:13:52.860 --> 0:13:56.80
dbadge@aol.com
She maybe you have to wait then until they they look through it.
0:13:56.510 --> 0:13:57.160
Gean Na
Well, hold.
0:13:57.170 --> 0:13:57.720
Gean Na
Hold on, Dave.
0:13:57.730 --> 0:14:0.600
Gean Na
I I want to make sure you're comfortable with it first, right.
0:13:59.490 --> 0:14:1.190
dbadge@aol.com
OK. Yeah.

0:14:0.610 --> 0:14:2.730
Gean Na
So it's, you know, carpet.
0:14:5.680 --> 0:14:5.880
dbadge@aol.com
Yeah.

0:14:2.880 --> 0:14:7.790
Gean Na
You know our before the horse situation are are you happy with this?

0:14:7.800 --> 0:14:9.150
Gean Na
I know this went through you.
0:14:9.710 --> 0:14:9.850
dbadge@aol.com
Yeah.

0:14:14.170 --> 0:14:14.480
dbadge@aol.com
Right.
0:14:9.160 --> 0:14:15.640
Gean Na
It went through the task group of of a small group looking at this, but there's there are.
0:14:15.650 --> 0:14:15.940
Gean Na
Are you?
0:14:15.950 --> 0:14:18.890
Gean Na
Would you say that you're done here? But here?
0:14:18.250 --> 0:14:19.290
dbadge@aol.com
Yes, yes.
0:14:19.460 --> 0:14:23.10
Gean Na
OK, now we have this item highlighted.
0:14:23.20 --> 0:14:26.900
Gean Na
For some reason I don't know why someone highlighted this, but let's talk about it.
0:14:32.450 --> 0:14:32.920
dbadge@aol.com
Yeah.
$0: 14: 32.970-->0: 14: 33.530$
dbadge@aol.com
So that's.

0:14:33.240 --> 0:14:39.70
Gean Na
So for materials that says a copy of the completed testing results shall be submitted with the bid.

0:14:42.170 --> 0:14:42.540
dbadge@aol.com
Yeah.
$0: 14: 42.550-->0: 14: 48.150$
dbadge@aol.com
So that would be the submittal part of the of the whole thing.
$0: 14: 49.350-->0: 14: 49.720$
dbadge@aol.com
Let's see.
$0: 14: 49.730$--> 0:14:51.30
dbadge@aol.com
Let me read back to your phone.
0:14:51.690 --> 0:14:52.20
Gean Na
What?
0:14:52.30 --> 0:14:52.320
Gean Na
What?
$0: 14: 52.330-->0: 14: 53.310$
Gean Na
What test results?
0:14:55.600 --> 0:14:56.900
dbadge@aol.com
Green the green book.
0:14:54.150 --> 0:14:58.580
Gean Na
There's being submitted of the of the of the end seals.
0:14:59.140 --> 0:15:0.240
dbadge@aol.com
In the end, seals, yeah.
0:15:5.80 --> 0:15:6.270
Gean Na
Um, so can I.
0:15:6.340 --> 0:15:8.970
Gean Na
Can I just kind of kicked this to you, Dave?

0:15:9.340 --> 0:15:9.540
dbadge@aol.com
Yeah.
0:15:18.900 --> 0:15:19.180
dbadge@aol.com
OK.

0:15:10.590 --> 0:15:20.250
Gean Na
I think I know what this is implying, but I think we can be a little bit clearer when on what this is trying to tell us to do or tell the user to do what?

0:15:20.310 --> 0:15:21.490
Gean Na
What test results?
0:15:22.620 --> 0:15:22.950
dbadge@aol.com
Ohk.
0:15:22.960 --> 0:15:23.530
dbadge@aol.com
OK.
0:15:23.760 --> 0:15:24.70
Gean Na
Right.
0:15:23.580 --> 0:15:28.20
dbadge@aol.com
So let me make sure I've got figure out what it is.
0:15:33.560 --> 0:15:33.790
Gean Na
Uh.
0:15:35.810 --> 0:15:36.100
dbadge@aol.com
Yeah.

0:15:36.110 --> 0:15:51.780
dbadge@aol.com
So this one's different than the uh, then the testing for the the pickle jar test cause it's outside the the pipeliner and I'll have to look back at my notes and see what I was thinking about on that.

0:15:53.890 --> 0:15:54.280
dbadge@aol.com
Uh.
$0: 16: 2.680-->0: 16: 10.350$
dbadge@aol.com
Oh, so that's that's saying that the seal material shall pass the 10,000 hour hydration dehydration test.
$0: 16: 10.920$--> 0:16:19.20
dbadge@aol.com
And so I'm saying that when we have that, then the copy of that should be submitted in the in the submittal section.

0:16:24.950 --> 0:16:26.940
Gean Na
Why isn't this in this middle section?
0:16:27.550 --> 0:16:28.450
Gean Na
Why do we have and?
0:16:29.160 --> 0:16:29.280
dbadge@aol.com
You.
0:16:28.460 --> 0:16:29.780
Gean Na
I'm just challenging it, Dave.
0:16:29.850 --> 0:16:30.560
Gean Na
Why do we have?
0:16:29.440 --> 0:16:38.450
dbadge@aol.com
Yeah, because it's it only applies to this one one type of material here for doing that because of the expanse and contracts with water.

0:16:40.620 --> 0:16:46.530
dbadge@aol.com
And so it would be a unique testing that's only for the materials for this kind of in seal.
0:16:49.980 --> 0:16:50.240
dbadge@aol.com
Yeah.

0:16:48.370 --> 0:16:50.940
Gean Na
OK, now I I hear you, but I'm.
$0: 16: 50.950-->0: 17: 3.740$
Gean Na
I'm just trying to think of this as from a user perspective where bearing submittals you know, throughout this section of 500 , is this the best place to cut a submittal?

0:17:4.450 --> 0:17:7.780
Gean Na
Is there a way that we can put this in the the middle section?
0:17:8.240 --> 0:17:10.0
Gean Na
That's a little bit cleaner.
0:17:10.350 --> 0:17:11.870
Gean Na
That's my challenge, I guess.
0:17:12.950 --> 0:17:13.470
dbadge@aol.com
Uh.
0:17:16.340 --> 0:17:16.970
dbadge@aol.com
Yeah.
0:17:13.910 --> 0:17:18.690
Gean Na
And I don't know this technology, while while well enough to say where it should best be, but I I I just.
0:17:17.240 --> 0:17:28.390
dbadge@aol.com
So it in the in the middle section we've got all the generic things that would apply to all of the yeah, to everything that we're referring back to that.

0:17:28.780 --> 0:17:42.620
dbadge@aol.com
And then in the separate sections, if there's something special, then we put it into the into this section because it doesn't apply to anything else other than this one material.

0:17:45.570 --> 0:17:49.420
Gean Na
OK, I'm gonna look at the original language of this one second.

0:17:49.420 --> 0:17:51.980
David Wangerin
I that's my question would be is why can't you just clarify that?
0:17:51.990 --> 0:18:4.350
David Wangerin
And the submittal it, wouldn't it be easier just to clarify this test and this retest result and then clarify it is for end sales instead of bearing it in the end seals section?

0:18:6.250 --> 0:18:7.100
dbadge@aol.com
We could do that.
0:18:7.410 --> 0:18:8.310
dbadge@aol.com
We moved the top.
0:18:11.160 --> 0:18:12.830
Gean Na
Yeah, that's that was kind of my point too.
0:18:12.840 --> 0:18:13.270
Gean Na
Thank you.
0:18:13.310 --> 0:18:13.730
Gean Na
What was that?
0:18:15.400 --> 0:18:15.600
David Wangerin
Yeah.
0:18:13.740 --> 0:18:16.770
Gean Na
You, David wangerin. OK.
$0: 18: 16.840-->0: 18: 19.500$
Gean Na
Yeah, I that's kind of my thought too.
0:18:24.510 --> 0:18:28.360
dbadge@aol.com
Yeah, because we've got, we've got it separated up above in the middle section.
0:18:28.370 --> 0:18:32.460
dbadge@aol.com
If you're, if you're, if you're grouting.

0:18:32.470 --> 0:18:43.900
dbadge@aol.com
If you're method requires grouting then we then we we put that in there as as a separate group so we can put this in as a separate group too in the submittal section.

0:18:46.40 --> 0:18:47.210
Gean Na
I I think we should, Dave.
0:18:47.220 --> 0:18:49.130
Gean Na
Otherwise, no ones gonna submit it.
0:18:49.860 --> 0:18:50.80
dbadge@aol.com
Yeah.
0:18:49.280 --> 0:18:58.590
Gean Na
You know it's it's one of those things that it's buried in greenbook that no one knows about, though, ought to put it where everyone could see it if it's warranted.
$0: 18: 58.760-->0: 19: 2.620$
Gean Na
Now, is there any agencies here that want to weigh in on on this subject?
0:19:7.840 --> 0:19:8.100
Gean Na
OK.
0:19:7.750 --> 0:19:9.340
Fernandez, Dickie
Just taking from Orange County sanitation.
0:19:7.960 --> 0:19:11.350
Colin McCarter
I can't weigh in as far as the content go ahead.
$0: 19: 13.920$--> 0:19:19.430
Fernandez, Dickie
So I I agree that I feel they've all the submittals are contained within a submittal section.
0:19:19.910 --> 0:19:20.160
Gean Na
Umm.

0:19:19.520 --> 0:19:21.720
Fernandez, Dickie
I think it gives the reader.
0:19:24.310 --> 0:19:25.830
Fernandez, Dickie
Otherwise this is going to get lost.
0:19:26.480 --> 0:19:26.790
Gean Na
Right.
0:19:27.370 --> 0:19:27.740
dbadge@aol.com
Yeah.
0:19:27.750 --> 0:19:31.770
dbadge@aol.com
And we want somebody's bid thrown out because they didn't breathe all the way through the whole thing.
0:19:33.280 --> 0:19:34.570
dbadge@aol.com
So I think that's a good suggestion.
0:19:35.860 --> 0:19:37.570
Gean Na
OK, um.
0:19:36.920 --> 0:19:38.480
Colin McCarter
Yeah, wholeheartedly agree.
0:19:40.870 --> 0:19:41.240
Gean Na
Yeah.
0:19:41.250 --> 0:19:47.330

## Gean Na

I I'm just looking for where and steals and steals used to be and I wanted to share with you guys.
0:19:48.920 --> 0:19:56.810
Gean Na
So Dave Icnd seals were one of the sections, but was that I'm guessing there was an seals for every section and we moved it out, right?

0:19:56.820 --> 0:19:57.480
Gean Na
That's what happened.

0:19:57.960 --> 0:19:58.370
dbadge@aol.com
Yeah.
0:19:59.380 --> 0:19:59.660
Gean Na
OK.

0:19:58.380 --> 0:20:5.340
dbadge@aol.com
So I I defined what that was and so it it only fits for cured in place and fold.
0:20:5.350 --> 0:20:11.860
dbadge@aol.com
Inform liners that the solid wall type fitting blinders had.
0:20:14.390 --> 0:20:14.650
Gean Na
Hmm.
0:20:14.570 --> 0:20:16.470
dbadge@aol.com
It it wouldn't be used for grouting.
0:20:17.510 --> 0:20:17.760
dbadge@aol.com
Yeah.

0:20:17.770 --> 0:20:19.790
dbadge@aol.com
If we grouted a a section, probably.
0:20:21.60 --> 0:20:25.640
Gean Na
But now that you've pulled it out right, you've pulled and sealed out.
0:20:30.130 --> 0:20:30.480
Gean Na
OK.

0:20:31.800 --> 0:20:31.940
dbadge@aol.com
Yeah.

0:20:30.490 --> 0:20:32.160
Gean Na
Let me step back a little bit before end.

0:20:32.170 --> 0:20:35.60
Gean Na
Seals used to apply it to each individual.
0:20:35.140 --> 0:20:37.20
Gean Na
Let's call it technology when applicable.
0:20:37.470 --> 0:20:40.940
Gean Na
Now it's pulled out in almost like a standalone section.
0:20:41.630 --> 0:20:42.840
Gean Na
How does a user know?
0:20:45.790 --> 0:20:46.610
Gean Na
OK, I see it.
0:20:46.620 --> 0:20:48.150
Gean Na
I'm kind of mad through my own questionnaire.
0:20:48.160 --> 0:20:50.780
Gean Na
You you mentioned it in 7.1 and 7.2.
0:20:51.240 --> 0:20:51.440
dbadge@aol.com
Yeah.
0:21:0.130 --> 0:21:0.520
Gean Na
OK.
0:21:1.890 --> 0:21:7.530
Gean Na
Yeah, I I my my thoughts here is that kind of like the group are saying let's prove this into the middles where it's appropriate or.

0:21:6.340 --> 0:21:7.840
dbadge@aol.com
No, I like.
0:21:8.0 --> 0:21:8.600
dbadge@aol.com
I like that, yeah.

0:21:21.690 --> 0:21:21.900
dbadge@aol.com
Yeah.

0:21:12.270 --> 0:21:25.400
Gean Na
OK, let's address this number reference here and we highlighted this because we saw the question mark and you made the comment here that you needed to go and check the numbers.

0:21:29.820 --> 0:21:29.980
dbadge@aol.com
Yeah.

0:21:25.410 --> 0:21:31.100
Gean Na
Well, I let I I wanted to take that a step further.
0:21:31.110 --> 0:21:33.180
Gean Na
Like what is this supposed to specify?
0:21:33.190 --> 0:21:35.10
Gean Na
Like what section is this supposed to be right now?
0:21:35.610 --> 0:21:36.750
dbadge@aol.com
Yeah, she'll be installed.
0:21:38.0 --> 0:21:38.310
Gean Na
You could.

0:21:40.500 --> 0:21:40.680
Gean Na
Yeah.
0:21:47.940 --> 0:21:48.230
Gean Na
Umm.

0:21:37.780 --> 0:21:53.210

## David Wangerin

And then Jane, I also have another question is, is that this is section $500-8$ end seals and then we have a section 500 dash, 8.3 end seals, I guess is that is that how we really wanna title this or is there something else that's going on in this section that would be better explained?

0:22:9.500 --> 0:22:9.640
David Wangerin
To.
0:21:54.500 --> 0:22:12.900
dbadge@aol.com
So this is it's in sealed, so some of them we have to protect, keep water from tracking behind the liner and then we have pressure end seals if we're using the pipes and the pressure application like a force main and so on that then they would go there.

0:22:12.970 --> 0:22:16.150
dbadge@aol.com
They basically fit on the inside. Uh.
0:22:17.30 --> 0:22:20.580
David Wangerin
So shouldn't we define the type of end seals like this should be pressure application?
0:22:22.550 --> 0:22:22.980
dbadge@aol.com
Yeah.
0:22:22.990 --> 0:22:27.420
dbadge@aol.com
So it says says for pressure pipeline or applications are.
0:22:32.20 --> 0:22:32.160
dbadge@aol.com
Yeah.
0:22:24.930 --> 0:22:38.100
David Wangerin
But I I think what you're missing, Dave, is that if if I went in let, let's just say I didn't know Green Book and I went in and I I went into the into the index and and and looked up and seals and it said section 500 dash 8.3.

0:22:38.410 --> 0:22:39.950
David Wangerin
So I went to that and I missed you.
0:22:48.570 --> 0:22:48.850
Gean Na
Right.
0:22:39.960 --> 0:22:55.540
David Wangerin
Maybe I didn't read everything else, but I missed a bunch of other things, but having two things labeled
exactly the same 500-8 and sales, which is supposed to be all encompassing and then having a 508.3 and seals, I don't really understand what that section is supposed to mean.

0:22:55.550 --> 0:23:6.980
David Wangerin
Now, if it's 500 , eight, 500 dash 8.3 pressure application because it's underneath the NCO's section, then I'm then I understand it's gonna be a pressure application and so on.

0:23:6.990 --> 0:23:8.650
David Wangerin
That's gonna really requirement for it, correct?
0:23:9.640 --> 0:23:9.900
dbadge@aol.com
Yeah.

0:23:10.680 --> 0:23:16.260
dbadge@aol.com
So the one above where it says installation should be 8.1.
0:23:18.80 --> 0:23:18.810
dbadge@aol.com
. 1.

0:23:21.320 --> 0:23:26.110
Gean Na
We'll hold on, Dave, and I think you I think you're getting lost a bit.
0:23:26.440 --> 0:23:32.210
dbadge@aol.com
Yeah, go down a little bit more, gene and see if there's something on the yeah.
0:23:32.220 --> 0:23:33.0
dbadge@aol.com
So we can see the whole.

0:23:32.550 --> 0:23:37.600
Gean Na
Well, the, but there's two David just makes it harder, guys.
0:23:37.350 --> 0:23:37.710
dbadge@aol.com
Oh, sorry.
0:23:39.340 --> 0:23:39.700
Gean Na
OK.

0:23:39.710 --> 0:23:42.200
Gean Na
So let me let me kind of bring us back home a little bit.
0:23:44.930 --> 0:23:45.110
dbadge@aol.com
Yeah.

0:23:43.410 --> 0:23:48.880
Gean Na
So Dave Badgley, there's this is the title of the section 500-8 called Unseals.
0:23:49.120 --> 0:23:49.300
dbadge@aol.com
Yeah.

0:23:49.190 --> 0:23:52.880
Gean Na
And we have the exact same thing on a child section.
0:23:56.270 --> 0:23:56.790
dbadge@aol.com
The.
0:23:53.530 --> 0:23:58.960
Gean Na
That's titled the same we need to change this title or change this title.
0:23:58.970 --> 0:23:59.900
Gean Na
It cannot be the same.
0:24:0.780 --> 0:24:1.190
dbadge@aol.com
Right.
0:24:1.200 --> 0:24:5.850
dbadge@aol.com
So on 8.1 we can make it, uh.
0:24:11.240 --> 0:24:11.440
Gean Na
Umm.
0:24:6.640 --> 0:24:19.120
dbadge@aol.com
So the general category is 8 for it's in Seals, 8.1 is it's obey that I'll be up above where it says when specified.

0:24:26.170 --> 0:24:27.160
Gean Na
Or Dave.
0:24:20.230 --> 0:24:27.270
dbadge@aol.com
Uh, that should be like 8.1 group gravity.
0:24:27.170 --> 0:24:27.840
Gean Na
Sorry, sorry.
0:24:27.850 --> 0:24:28.620
Gean Na
Sorry to interrupt you.
0:24:28.630 --> 0:24:29.740
Gean Na
I think I have a solution for you.
0:24:30.20 --> 0:24:30.260
dbadge@aol.com
OK.

0:24:31.420 --> 0:24:38.450
Gean Na
I think we can just move this language, which is a little bit unique, right?
0:24:38.460 --> 0:24:40.830
Gean Na
This is when you have pressure applications.
0:24:40.890 --> 0:24:41.200
dbadge@aol.com
Right.
0:24:47.140 --> 0:24:48.40
dbadge@aol.com
The.
0:24:41.810 --> 0:24:50.0
Gean Na
We can put that into materials and if you have a specific installation, let's call it method for pressure end seals.

0:24:50.270 --> 0:24:57.530
Gean Na

You could also add it here, but I don't think this needs to be its own subsection as a materials and installation is.

0:24:58.90 --> 0:24:59.440
dbadge@aol.com
Well, I think it's a separate.
0:24:59.830 --> 0:25:0.930
dbadge@aol.com
It's a separate item.
0:25:0.940 --> 0:25:1.550
dbadge@aol.com
They're different.
0:25:2.220 --> 0:25:2.480
Gean Na
OK.
0:25:2.970 --> 0:25:11.240
dbadge@aol.com
So one of them ought to be gravity, and then this one ought to be 8.3 ought to be pressure in seals.
0:25:14.460 --> 0:25:14.740
Gean Na
OK.
0:25:14.240 --> 0:25:15.740
David Wangerin
David is the material the same for both.
0:25:16.440 --> 0:25:17.560
dbadge@aol.com
No, it's different.
0:25:18.20 --> 0:25:18.440
David Wangerin
So.
0:25:26.820 --> 0:25:27.180
Gean Na
Right.
0:25:18.500 --> 0:25:29.50
David Wangerin
So really what we need is we need a instead of having a 500 dash 8.1 or having a 508 dash, we really need two different sections that define the two different types of end seals you're explaining.

0:25:29.60 --> 0:25:29.560
David Wangerin
Is that correct?
0:25:30.80 --> 0:25:30.220
dbadge@aol.com
Yes.
0:25:32.780 --> 0:25:33.510
Gean Na
OK, so I'm just.
0:25:32.910 --> 0:25:34.20
David Wangerin
So this so so this.
0:25:33.20 --> 0:25:36.390
dbadge@aol.com
So what for gravity pipes and one of them for pressure pipes?
0:25:39.890 --> 0:25:47.201
Gean Na
So I'm just going to try to just humor me for a second, guys, and we can clean this up later, but I think I E.
0:26:14.300 --> 0:26:15.130
Gean Na
In that format.
0:26:18.300 --> 0:26:18.740
dbadge@aol.com
Yes.
0:26:14.350 --> 0:26:18.740
David Wangerin
And then, David, you're saying you're saying there's different installation methods for these two as well, correct, David.

0:26:18.870 --> 0:26:19.510
dbadge@aol.com
Yeah.
0:26:19.560 --> 0:26:19.890
dbadge@aol.com
And so.
0:26:19.790 --> 0:26:24.60
David Wangerin
So there should be a 50812 and a 50822 for installation.

0:26:23.830 --> 0:26:24.730
dbadge@aol.com
Yeah, yeah.
0:26:29.170 --> 0:26:31.830
David Wangerin
And then and then the language will need to be flushed out in both of those.
0:26:31.840 --> 0:26:32.750
David Wangerin
Thanks Gene for fixing that.
0:26:35.970 --> 0:26:36.340
dbadge@aol.com
Yeah.
0:26:35.200 --> 0:26:36.480
Gean Na
Yeah, that, that, that's.
0:26:36.350 --> 0:26:37.100
dbadge@aol.com
No, that's good.
0:26:37.110 --> 0:26:37.480
dbadge@aol.com
That's good.
0:26:36.710 --> 0:26:38.590
Gean Na
I'm glad you with that.
0:26:42.890 --> 0:26:44.710
dbadge@aol.com
Yeah, yeah.
0:26:41.100 --> 0:26:47.380
Gean Na
So Dave Badgley does this work and can you work with this format and then just clean it up in that fashion?

0:26:48.160 --> 0:26:48.290
dbadge@aol.com
Yes.
0:26:49.40 --> 0:26:51.60
Gean Na
OK, so let me go and.

0:26:51.160 --> 0:26:53.230
dbadge@aol.com
I think we're we're like one extra letter.
0:26:53.240 --> 0:26:57.990
dbadge@aol.com
Shouldn't we just be on in seals?
0:26:58.0 --> 0:27:2.970
dbadge@aol.com
His 500.8 so 508.1.
0:27:5.110 --> 0:27:5.550
dbadge@aol.com
Oh, yeah.
0:27:5.560 --> 0:27:5.930
dbadge@aol.com
OK.
0:27:5.940 --> 0:27:7.20
dbadge@aol.com
Yeah, we're right on numbers.
0:27:8.30 --> 0:27:8.270
Gean Na
Yeah.
0:27:8.820 --> 0:27:8.940
dbadge@aol.com
Yeah.
0:27:8.280 --> 0:27:10.780
Gean Na
I mean, there's various ways to skin this cat, right?
0:27:10.480 --> 0:27:10.810
dbadge@aol.com
Yeah.
0:27:10.820 --> 0:27:12.560
dbadge@aol.com
No, no, you got it right, yeah.
0:27:10.790 --> 0:27:13.610
Gean Na
You could either have right?

0:27:13.620 --> 0:27:15.110
Gean Na
It's how and I'm.
0:27:15.120 --> 0:27:20.420
Gean Na
I'm not saying what's is better than the other, as long as it's clean and the user knows where to go.
0:27:21.140 --> 0:27:21.340
dbadge@aol.com
Yeah.
0:27:22.110 --> 0:27:23.950
Gean Na
Um, I I can't.
0:27:23.380 --> 0:27:28.640
dbadge@aol.com
So you're probably better to actually get gravity in seals and then pressure in seals.
0:27:30.630 --> 0:27:30.810
Gean Na
Sure.

0:27:33.660 --> 0:27:34.630
Gean Na
So you like this, Dave?
0:27:35.240 --> 0:27:35.670
dbadge@aol.com
Yeah.
0:27:35.740 --> 0:27:36.10
dbadge@aol.com
Yeah.
0:27:34.680 --> 0:27:37.100
Gean Na
Just to be clear, there's this format.
0:27:36.20 --> 0:27:37.540
dbadge@aol.com
No, that's perfect. Yeah.
0:27:37.550 --> 0:27:37.710
Gean Na
OK.

0:27:38.770 --> 0:27:41.370

## Gean Na

Uh, and go ahead and, you know, modify this, you know.
0:27:43.450 --> 0:27:43.770
Gean Na
OK.

0:27:40.250 --> 0:27:43.960
dbadge@aol.com
Yeah, and I'll, I'll put it back into that into that format.
0:27:46.160 --> 0:27:51.840
dbadge@aol.com
And then we'll move the the, the blue part to the up to submittals.
0:28:17.190 --> 0:28:17.720
Gean Na
OK.
0:28:18.30 --> 0:28:21.530
Gean Na
We'll just leave that open for now and instead of doing all this right now.
0:28:19.900 --> 0:28:22.260
dbadge@aol.com
OK. Yeah.

0:28:23.600 --> 0:28:24.40
Gean Na
OK.

0:28:24.260 --> 0:28:25.940
Gean Na
Shall we talk about annular space grouting?
0:28:26.650 --> 0:28:26.850
dbadge@aol.com
Yep.
0:28:28.880 --> 0:28:29.160
Gean Na
OK.

0:28:29.170 --> 0:28:30.130
Gean Na
So, Dave, are you?

0:28:30.200 --> 0:28:33.800
Gean Na
It doesn't seem like much changed here from the original language, right?
0:28:33.940 --> 0:28:34.170
dbadge@aol.com
Ohh.

0:28:39.870 --> 0:28:46.490
Gean Na
Uh, OK, I guess if nothing changed, it's really not anything to talk about.
0:28:46.540 --> 0:28:47.170
Gean Na
I do see this.
0:28:49.900 --> 0:28:50.100
dbadge@aol.com
Yeah.
0:28:48.590 --> 0:28:50.790
Gean Na
Modified or appropriate language?
0:29:1.110 --> 0:29:4.390
Gean Na
This this is probably another per and and and accordance with change.
0:29:5.850 --> 0:29:6.110
dbadge@aol.com
Yeah.
0:29:16.740 --> 0:29:19.10
Gean Na
OK, so let's talk about section 10 .
0:29:20.870 --> 0:29:21.20
dbadge@aol.com
OK.
0:29:24.810 --> 0:29:26.740
Gean Na
What you're showing in yellow is new, right?
0:29:27.350 --> 0:29:27.570
dbadge@aol.com
Yes.

0:29:40.30 --> 0:29:52.280
dbadge@aol.com
So in this kind of reflects the the wording that we have with city of LA with the two step process of a rough cut out mean and then finishing with the wire brush finish to trim it.

0:30:3.570 --> 0:30:5.780
dbadge@aol.com
So I'd like to change this.
0:30:6.350 --> 0:30:15.330
dbadge@aol.com
We talked about this before, so I got it $95 \%$ so I could be $5 \%$ less, but I'd like to have it to be $5 \%$ over.
0:30:16.200 --> 0:30:23.150
dbadge@aol.com
Yeah, we have just in case they brush just a little bit more instead of $100 \%$ make it $105 \%$.
0:30:23.240 --> 0:30:26.370
dbadge@aol.com
You know this, the guys are doing this with the A joystick.
0:30:27.50 --> 0:30:29.680
dbadge@aol.com
Uh, and you know, we don't want.
0:30:29.690 --> 0:30:30.430
dbadge@aol.com
I'm not getting paid.
0:30:31.810 --> 0:30:34.780
dbadge@aol.com
Yeah, if it's if it's just a little bit over.
0:30:34.790 --> 0:30:37.390
dbadge@aol.com
So just change the 100 to 105 .
0:30:45.80 --> 0:30:46.90
Gean Na
Yeah, I hear you, Dave.
0:30:46.100 --> 0:30:49.210
Gean Na
I'm just trying to comprehend what this is.
0:30:49.780 --> 0:30:50.50
Gean Na
What?

0:30:50.60 --> 0:30:50.250
Gean Na
What?

0:30:50.260 --> 0:30:50.500
Gean Na
What?

0:30:49.850 --> 0:30:52.0
dbadge@aol.com
Yeah, but this is what we do.
0:30:50.560 --> 0:30:52.30
Gean Na
What is this a percentage of?

0:30:54.430 --> 0:30:54.650
Gean Na
Uh-huh.
0:30:52.210 --> 0:30:59.610
dbadge@aol.com
Cured in place and fold and form that it makes a dimple at the laterals and then we have a robotic cutter that goes in.

0:30:59.700 --> 0:31:14.430
dbadge@aol.com
You watch it with the TV and you drill through it and then cut the the liner out that's covering the lateral connection and then you put a wire brush in there and then you smooth all that out all the way around.

0:31:15.110 --> 0:31:15.660
dbadge@aol.com
Uh.

0:31:16.130 --> 0:31:26.140
dbadge@aol.com
And so if you're over just a little bit on cutting the two guys, the guys working it with the joystick, if he overcuts a little bit, it isn't gonna hurt anything.

0:31:27.310 --> 0:31:37.840
dbadge@aol.com
Uh, but you know, we don't want them not getting paid for a whole lateral reconnection or having that be in the A, you know, the problem.

0:31:38.560 --> 0:31:44.40
dbadge@aol.com

Yeah, that if he's over just a little bit, we don't want drilling a hole somewhere where it's not supposed to be.

0:31:44.50 --> 0:31:46.170
dbadge@aol.com
But this is just as you're cutting.
0:31:57.0 --> 0:31:57.230
Gean Na
Umm.
0:31:46.700 --> 0:31:59.360
dbadge@aol.com
It's, you know, the depends what it looks like every you know, it's nice if they were all like, you know, manufactured wise, coming in lots of them are are hammer tapped in.

0:31:59.370 --> 0:32:3.110
dbadge@aol.com
They're not smooth to start out with and just to give it that extra.
0:32:4.230 --> 0:32:7.650
dbadge@aol.com
Yeah, a little bit of cushion in there for the guys.
0:32:8.130 --> 0:32:10.0
dbadge@aol.com
So we need a a big number.
0:32:10.350 --> 0:32:28.990
dbadge@aol.com
When we started, we only had it to where it was like had to be $95 \%$ or larger and on the job with city of LA the the product that we took out of the Green Book this time that's not made anymore the fold and form HDPE, it was shrinking.

0:32:29.900 --> 0:32:36.710
dbadge@aol.com
And so the way that the contractor did, because it said $95 \%$ or more.
0:32:38.140 --> 0:32:45.890
dbadge@aol.com
And so he cut, probably like a 17 inch long deal and cut a big rectangle out of the pipe.
0:32:45.960 --> 0:32:50.70
dbadge@aol.com
So if his pipe moved, it wasn't wasn't covering the lateral connection.

0:32:50.800 --> 0:32:52.890
dbadge@aol.com
So we need a A, you know?
0:32:52.900 --> 0:32:59.750
dbadge@aol.com
So this that's when we made it 95 to 100 and you know, but it probably ought to be 105 .
0:33:3.220 --> 0:33:3.570
Gean Na
Yeah.
0:33:3.580 --> 0:33:3.870
Gean Na
OK.
0:33:4.440 --> 0:33:5.310
Gean Na
Thanks for the explanation.
0:33:3.260 --> 0:33:6.810
dbadge@aol.com
So we got, we have a little bit of, yeah.
0:33:42.230 --> 0:33:47.360
Gean Na
Any questions on service, lateral connection, reestablishment before we move on?
0:34:8.70 --> 0:34:12.520
Gean Na
OK, Dave, let's talk about post installation inspection.
0:34:12.690 --> 0:34:14.370

## Gean Na

This is new language here, right?
0:34:14.960 --> 0:34:15.290
dbadge@aol.com
Right.
0:34:17.920 --> 0:34:33.820
dbadge@aol.com
So we want them to do it when they're the trick that's done in the industry is if you don't have this wording in there that they let the flow go and don't do it while they're bypassing because then it hides the bottom part of the pipe and you can't see what it, what the liner looks like.

0:34:34.890 --> 0:34:35.120
Gean Na
Umm.

0:34:34.890 --> 0:34:36.930
dbadge@aol.com
So this is his.
0:34:39.20 --> 0:34:48.420
dbadge@aol.com
The and so if I'm doing large diameter pipe, pelvis or or Byron and slip like that then I'm not bypassing.
0:34:48.430 --> 0:34:51.710
dbadge@aol.com
Then we want to do it at the lowest float time of the day to.
0:34:51.720 --> 0:34:54.730
dbadge@aol.com
We're going to see more of the pipe and than normal.
0:35:8.350 --> 0:35:9.820
Gean Na
Let's check these references.
0:35:10.640 --> 0:35:10.900
dbadge@aol.com
OK.

0:35:9.830 --> 0:35:14.420
Gean Na
Dave 3.4 CCTV DOT looks right to me.
0:35:14.950 --> 0:35:20.830
Gean Na
This is page 27 , so let's check 3.4 is CCTV.
0:35:26.390 --> 0:35:26.690
Gean Na
OK.
0:35:26.700 --> 0:35:27.270
Gean Na
So we're good there.
0:35:27.720 --> 0:35:27.840
dbadge@aol.com
Yeah.

0:35:32.910 --> 0:35:34.800
dbadge@aol.com
Don't know what 3.9 was.
0:35:36.500 --> 0:35:37.650
Gean Na
3.9 what's CCTV?

0:35:38.430 --> 0:35:38.850
dbadge@aol.com
Oh, OK.
0:35:55.870 --> 0:35:56.340
dbadge@aol.com
Oh.
0:35:50.940 --> 0:35:57.90
Gean Na
And segmented slip liners 9.4 I I feel like that's not right.
0:35:56.640 --> 0:35:57.250
dbadge@aol.com
Oh, OK.
0:35:57.260 --> 0:35:58.560
dbadge@aol.com
Yeah, that's yeah.
0:35:58.570 --> 0:36:5.980
dbadge@aol.com
So things that were that were installed, that's what I was talking about, where we can't, we're not bypassing, but we're doing it within the flow.

0:36:8.50 --> 0:36:8.190
Gean Na
Yeah.
0:36:6.20 --> 0:36:9.270
dbadge@aol.com
We would just want to do it at the lowest flow time of the day.
0:36:11.20 --> 0:36:11.710
Gean Na
No, I hear you.
0:36:12.320 --> 0:36:12.870
dbadge@aol.com
Oh, but that.

0:36:11.720 --> 0:36:15.710
Gean Na
I what I'm trying to do here is I'm I wanna verify this reference number to.
0:36:15.630 --> 0:36:17.530
dbadge@aol.com
Yeah, it's not right cause that ought to be.

0:36:19.350 --> 0:36:20.410
Gean Na
Could you tell me what that is?
0:36:19.210 --> 0:36:25.180
dbadge@aol.com
Five, so it is the new number.
0:36:25.190 --> 0:36:27.170
dbadge@aol.com
It's going to be 500-7.
0:36:29.100 --> 0:36:31.860
dbadge@aol.com
Uh, they will have to go back up and see what.
0:36:34.180 --> 0:36:36.940
dbadge@aol.com
Uh segmented slip liners is.
0:36:37.810 --> 0:36:39.500
Gean Na
You don't have this open on your end.
0:36:39.540 --> 0:36:40.600
Gean Na
OK, we could find it.
0:36:40.890 --> 0:36:41.390
Gean Na
Could find it.

0:36:46.530 --> 0:36:48.700
dbadge@aol.com
OK, go back up.
0:36:48.850 --> 0:36:50.320
dbadge@aol.com
See where seven point.

0:36:51.160 --> 0:36:53.270
dbadge@aol.com
Nicole. See. Ohh.
0:36:53.280 --> 0:36:53.450
dbadge@aol.com
Yeah.
0:36:53.460 --> 0:36:54.360
dbadge@aol.com
Let me look at the titles.

0:37:9.60 --> 0:37:9.390
dbadge@aol.com
Yeah.

0:37:9.400 --> 0:37:12.380
dbadge@aol.com
So it's no, that's 502.
0:37:21.150 --> 0:37:21.660
dbadge@aol.com
Yeah.

0:37:21.670 --> 0:37:30.840
dbadge@aol.com
So that's oh, this is in submittals though, gene, go down does to Sevens 500 dash sevens.
0:37:36.180 --> 0:37:36.560
dbadge@aol.com
OK.

0:37:46.580 --> 0:37:47.60
Gean Na
All the way up.
0:38:8.210 --> 0:38:9.780
Gean Na
OK, here's the beginning of seven.
0:38:9.890 --> 0:38:11.170
Gean Na
This is it's on page 7 .
0:38:11.960 --> 0:38:12.280
dbadge@aol.com
OK.

0:38:13.130 --> 0:38:14.470
Gean Na
Uh, CIPP.
0:38:17.240 --> 0:38:17.680
Gean Na
You know what?
0:38:19.230 --> 0:38:20.340
Gean Na
Let me do something else here.
0:38:20.350 --> 0:38:24.20
Gean Na
One second I I I created a table so I could jump around easy.
0:38:24.910 --> 0:38:25.80
dbadge@aol.com
Yeah.
0:38:50.940 --> 0:38:51.770
Gean Na
I can't find it.
0:38:53.100 --> 0:38:53.910
dbadge@aol.com
I'll tell you in a minute.
0:38:53.920 --> 0:38:57.840
dbadge@aol.com
I got my cable that I had in my my Green Book presentation.
0:38:59.50 --> 0:39:1.750
dbadge@aol.com
OK, so here's right. So.
0:39:8.500 --> 0:39:10.10
dbadge@aol.com
Same 7.4.
0:39:13.130 --> 0:39:13.630
Gean Na
Uh, OK.
0:39:13.180 --> 0:39:14.410
dbadge@aol.com
Second, flip lighters.

0:39:14.420 --> 0:39:15.330
dbadge@aol.com
Annular space grouting.
0:39:19.320 --> 0:39:21.170
dbadge@aol.com
Yeah, yeah, yeah.
0:39:16.130 --> 0:39:22.10
Gean Na
So do we just need a reference 7.4 or is there something more specific 7.4 OK.
0:39:21.220 --> 0:39:22.80
dbadge@aol.com
7.4.

0:39:25.510 --> 0:39:26.970
dbadge@aol.com
Is that covers all of them.
0:39:38.10 --> 0:39:38.390
dbadge@aol.com
Perfect.
0:39:50.370 --> 0:39:54.410
Gean Na
That they've that is why we highlighted things in green to this verify references.
0:39:54.470 --> 0:39:55.710
Gean Na
This. Umm.
0:39:55.50 --> 0:39:56.70
dbadge@aol.com
Right, yeah.
0:39:56.970 --> 0:39:57.720
Gean Na
So let's do.
0:40:1.10 --> 0:40:1.340
dbadge@aol.com
Right.
0:39:57.910 --> 0:40:1.440
Gean Na
Well, let's not kill everyone's time with this, Dave.

0:40:1.450 --> 0:40:6.220
Gean Na
So and when we move this into another task group, again, let's just verify all the reference numbers.
0:40:5.950 --> 0:40:6.770
dbadge@aol.com
Yeah, yeah.
0:40:6.630 --> 0:40:7.610
Gean Na
So there's no errata.
0:40:9.640 --> 0:40:11.830
Gean Na
Um, but yeah, that is why it's green.
0:40:12.560 --> 0:40:12.740
dbadge@aol.com
Yeah.
0:40:13.520 --> 0:40:14.10
Gean Na
OK.
0:40:14.20 --> 0:40:20.110
Gean Na
Before we move on anything else in post installation inspection CCTV inspection.
0:40:22.180 --> 0:40:22.360
dbadge@aol.com
No.
0:40:23.320 --> 0:40:30.300
Gean Na
OK, this was the just editorial cleanup in red measurement.
0:40:30.310 --> 0:40:31.210
Gean Na
This is new.
0:40:41.180 --> 0:40:44.160
Gean Na
That they this is I know there was a measurement language before.
0:40:46.130 --> 0:40:48.510
Gean Na
And I have it open here on the separate file.

0:40:49.180 --> 0:40:49.370
dbadge@aol.com
Yeah.
0:40:51.780 --> 0:40:53.400
dbadge@aol.com
The yeah, so.
0:40:50.610 --> 0:40:54.600
Gean Na
But could you share with their group what kind of ohh you used to have measurement in each section?
0:40:55.490 --> 0:40:56.140
dbadge@aol.com
Right.
0:40:56.280 --> 0:40:56.510
Gean Na
Right.
0:40:56.250 --> 0:40:56.620
dbadge@aol.com
And so.
0:40:56.520 --> 0:40:58.400
Gean Na
And we've took it out because it was repetitive.
0:40:59.20 --> 0:40:59.220
dbadge@aol.com
Yeah.
0:41:0.530 --> 0:41:2.870
dbadge@aol.com
And that's true of all these sections.
0:41:2.880 --> 0:41:4.740
dbadge@aol.com
That, that's and so each one of the.
0:41:5.510 --> 0:41:14.40
dbadge@aol.com
So those sections under 500-7 will refer back to this standard wording, so it'll be the same for for everybody.
$0: 41: 13.710-->0: 41: 16.500$

## Gean Na

Right, the original language was very short.

0:41:16.510 --> 0:41:18.920
Gean Na
It said lining will be measured by the linear foot.
$0: 41: 19.510-->0: 41: 19.750$
dbadge@aol.com
Yeah.

0:41:19.270 --> 0:41:19.870
Gean Na
That's it.
0:41:24.360 --> 0:41:26.520
dbadge@aol.com
It is, yeah.
0:41:20.730 --> 0:41:29.610
Gean Na
Your proposed language is a lot more lengthier, but you have you have it here and then so you you've added some color to it.

0:41:29.620 --> 0:41:34.810
Gean Na
So post lining, cleaning and inspection shall be measured by the linear foot service.
0:41:34.820 --> 0:41:40.320
Gean Na
That'll reconnection or replacement and spot repairs shall be measured by each chemical.
0:41:40.330 --> 0:41:45.740
Gean Na
Grouting shall be measured by each test and seal and gallons of grout injected.
0:41:45.780 --> 0:41:49.780
Gean Na
Or we can clean this up from a writing style.
$0: 41: 50.30$--> 0:41:50.250
dbadge@aol.com
Help.
0:41:49.850 --> 0:41:53.10
Gean Na
Annular space grouting shall be measured by the cubic yards installed.
0:41:54.370 --> 0:41:54.530
dbadge@aol.com
Yeah.

0:42:0.230 --> 0:42:0.840
dbadge@aol.com
Yeah.
0:41:54.500 --> 0:42:2.820
Gean Na
So I guessing what you're trying to say is you didn't like how it was measured by linear foot and you're trying to add additional pay items.

0:42:0.900 --> 0:42:3.250
dbadge@aol.com
Yeah, because there's lots of other things in there.
0:42:6.340 --> 0:42:14.620
Gean Na
OK, so before we I I think the best way to finish up that section is to consider the proposed payment language.

0:42:15.270 --> 0:42:15.450
dbadge@aol.com
Yeah.
$0: 42: 16.820-->0: 42: 17.570$
Gean Na
Which I'm open.
$0: 42: 17.580-->0: 42: 18.610$
Gean Na
I have your email.
0:42:18.620 --> 0:42:20.10
Gean Na
This is from LA County, San.
0:42:22.280 --> 0:42:22.850
Gean Na
Um.
0:42:25.160 --> 0:42:26.540
Gean Na
Just humor me guys.
0:42:26.940 --> 0:42:27.70
dbadge@aol.com
Yeah.

0:42:27.920 --> 0:42:29.390
Gean Na
I'm gonna just taste this here.
0:42:37.530 --> 0:42:42.160

## Gean Na

Uh, for for the rest of you guys, this is language from LA County sand that I guess.
0:42:44.90 --> 0:42:49.150
Gean Na
Dave, what you're suggesting is to have this language in this payment section.
0:42:49.80 --> 0:42:50.390
dbadge@aol.com
Right, right.
$0: 42: 50.680-->0: 42: 51.120$
dbadge@aol.com
So this.

0:42:50.710 --> 0:42:54.450

## Gean Na

And what about all this additional line items that that was here before?
0:42:54.790 --> 0:42:54.970
dbadge@aol.com
Yeah.

0:42:54.490 --> 0:42:55.730
Gean Na
You're saying we don't need any of this?
0:42:56.310 --> 0:42:57.480
dbadge@aol.com
Yeah, we don't need any of that.
0:43:1.370 --> 0:43:23.580
dbadge@aol.com
So that the before we said listed out everything that was included, but you know included, yeah May work if you're doing a line yelled at small diameter, but when you get up to you know we can, you know with segmented slip liners we can get up to like 100 and some odd inches if we have to.

0:43:24.60 --> 0:43:37.300
dbadge@aol.com
So on those and and it leaves this leaves it up to the engineer that allows them to either do a lump sum item or he can do a bid for.

0:43:37.310 --> 0:43:45.80
dbadge@aol.com
If you wanted to pull out uh traffic control, if that's really unique, you could pull out bypassing.
0:43:45.90 --> 0:43:48.290
dbadge@aol.com
If that's really unique, he can pull out.

0:43:48.930 --> 0:43:50.680
dbadge@aol.com
Uh odor control.
$0: 43: 50.730-->0: 43: 57.560$
dbadge@aol.com
If that's really unique for larger diameter lines, so this allows them that he can do whatever he wants to do.
0:43:58.90 --> 0:44:2.320
dbadge@aol.com
It's all covered, and he's gonna have a separate, you know, bid item page.
0:44:6.580 --> 0:44:6.930
Gean Na
OK.

0:44:6.940 --> 0:44:9.440
Gean Na
Are we muddying the water with your measurement language?
0:44:10.950 --> 0:44:11.300
dbadge@aol.com
We are.
0:44:12.240 --> 0:44:15.440
Gean Na
Alright, so I almost feel like you can.
0:44:15.20 --> 0:44:16.250
dbadge@aol.com
Oh, no, no, no.
0:44:16.260 --> 0:44:18.360
dbadge@aol.com
That's that actually works into this.
0:44:47.970 --> 0:44:48.940
Gean Na
Colin, can I pick on you?

0:44:50.700 --> 0:44:51.580
Gean Na
What are your thoughts here?
0:44:53.890 --> 0:44:54.140
Colin McCarter
Yeah.

0:44:56.960 --> 0:44:57.680
Colin McCarter
I mean.
0:44:59.980 --> 0:45:3.510
Colin McCarter
It's not bad to include that kind of a CYA.
0:45:3.520 --> 0:45:9.740
Colin McCarter
Everything is that's required is included kind of clause like what we're pasting in.
0:45:10.740 --> 0:45:10.960
Gean Na
Umm.
0:45:10.960 --> 0:45:18.580
Colin McCarter
The thing that jumps out at me still is that annular space grouting we're talking about measuring it separately in 500 dash 13 .

0:45:18.590 --> 0:45:25.440
Colin McCarter
And then we're trying to say that it's included in either the unit price or lump sum and 500-14.
0:45:26.300 --> 0:45:26.540
Gean Na
Umm.
0:45:27.500 --> 0:45:33.570
dbadge@aol.com
Yeah, I think anybody that's doing and or space grouting is gonna pull that out as a separate line item.
0:45:50.670 --> 0:45:51.830
Colin McCarter
Right, yeah.
0:45:51.940 --> 0:45:52.250
Gean Na
It.

0:45:38.0 --> 0:45:53.930
dbadge@aol.com
Because we don't use annular space, grouting for all the liners we're gonna use it for segmented slip liners and we're gonna use it for uh, continuous high density polyethylene slip lane and it it is it isn't for the other one.

0:45:53.940 --> 0:45:56.440
dbadge@aol.com
So if it's not up there.
0:45:56.130 --> 0:46:3.320
Gean Na
The Dave, that's kind of why I made that comment that you know your your language and measurement and I'm not saying it's bad.

0:46:3.410 --> 0:46:3.640
Gean Na
I'm.
0:46:3.770 --> 0:46:3.960
dbadge@aol.com
Yeah.
0:46:3.650 --> 0:46:4.480
Gean Na
I'm just saying it.
0:46:4.490 --> 0:46:11.0
Gean Na
It's inconsistent with what the payment language is currently saying, so the users confused as I am right now.

0:46:11.410 --> 0:46:16.940
Gean Na
What is it that you want me to do if I'm trying to specify a project or develop those bid items?
0:46:17.810 --> 0:46:25.920
Gean Na
I think it's confusing and I just think, umm, these two, section 13 and 14 need to marry consistently.
0:46:27.160 --> 0:46:33.170
dbadge@aol.com
I I think that it does because it lets you either do unit price or lump sum price.
0:46:38.170 --> 0:46:39.760
David Wangerin
So, Dave, what would you do in this instance?

0:46:39.770 --> 0:46:40.480
David Wangerin
How would you do it?
0:46:40.490 --> 0:46:42.310
David Wangerin
If, how would you do annular space grouting?
0:46:45.0 --> 0:46:48.80
David Wangerin
If you had, if you had to, if you had to bet, where would you put it?
0:46:49.980 --> 0:46:57.820
dbadge@aol.com
Uh, so I it's probably going to be a a separate line item because it's a separate subcontractor that's going to do that, so.

0:46:57.760 --> 0:46:59.810
David Wangerin
And and you can guarantee everybody's gonna do it that way.
0:47:1.490 --> 0:47:2.460
David Wangerin
You can guarantee that.
0:47:0.350 --> 0:47:3.940
dbadge@aol.com
Yes, yes, yes, yeah.
0:47:3.950 --> 0:47:4.270
David Wangerin
OK.
0:47:4.280 --> 0:47:4.960
David Wangerin
So then why?
0:47:5.290 --> 0:47:6.820
David Wangerin
Why give you an option to do it the other way?
0:47:8.80 --> 0:47:8.770
dbadge@aol.com
It doesn't.
0:47:8.840 --> 0:47:10.770
dbadge@aol.com
It's only how you're pricing it.

0:47:10.900 --> 0:47:11.250
dbadge@aol.com
It just.
0:47:12.70 --> 0:47:12.480
dbadge@aol.com
Yeah.

0:47:12.490 --> 0:47:18.570
dbadge@aol.com
So you're making sure that everybody's putting that in there is that they don't say.
$0: 47: 18.580-->0: 47: 19.860$
dbadge@aol.com
Ohh, why didn't you know?
0:47:19.870 --> 0:47:25.380
dbadge@aol.com
Our product doesn't need that or we don't need that or we didn't bid that in the deal.
0:47:25.390 --> 0:47:29.290
dbadge@aol.com
It just, you know, it's probably going to be a line item in a in a bid.
0:47:29.20 --> 0:47:35.500
David Wangerin
But probably going to be versus is you keep you, keep you keep trying and this is I I'm.
0:47:36.740 --> 0:47:37.190
dbadge@aol.com
Yeah.
0:47:37.240 --> 0:47:37.920
dbadge@aol.com
Yeah, no problem.
0:47:35.510 --> 0:47:40.310
David Wangerin
I'm kind of playing devil's advocate, so I apologize, Dave, but but you you you keep leaving and out.
0:47:42.540 --> 0:47:50.510
David Wangerin
And and I guess the the what and I can say what genes trying to do is he wants it to be consistent in the same for everybody.

0:47:50.800 --> 0:48:2.290
David Wangerin
So that there's understanding, especially when it comes to the agencies and payment and everything else,
so that that they're not getting double charged or they're not getting additional, you know, revised work orders.

0:48:3.70 --> 0:48:3.370
dbadge@aol.com
Right.
0:48:2.560 --> 0:48:4.610
David Wangerin
I I can kind of see where he's going.
0:48:5.220 --> 0:48:5.460
dbadge@aol.com
Yeah.
0:48:4.620 --> 0:48:8.240
David Wangerin
So so pick one or the other and then remove the other one.
0:48:8.800 --> 0:48:9.410
dbadge@aol.com
But don't.
0:48:9.580 --> 0:48:13.10
dbadge@aol.com
But all uh, but.
0:48:15.910 --> 0:48:25.300
dbadge@aol.com
But the first line post lining clean inspection shall be measured by the linear foot, so that's all could be all included in that thing.

0:48:25.590 --> 0:48:29.800
dbadge@aol.com
But service lateral connections yell on any particular line.
0:48:30.170 --> 0:48:31.790
dbadge@aol.com
It's not it.
0:48:32.150 --> 0:48:45.20
dbadge@aol.com
The amount is going to vary by by lines and that we're not opening up all the the lateral connections if for all the opening up the active lateral connections, it saves the city money.

0:48:45.890 --> 0:48:50.410
dbadge@aol.com
Uh, that they're they're only paying a per each price on that.

0:48:53.240 --> 0:48:53.450
David Wangerin
So.

0:48:55.760 --> 0:48:55.930
David Wangerin
So.

0:48:52.770 --> 0:48:56.930
dbadge@aol.com
And then chemical grouting is only applicable if we have.
0:48:58.790 --> 0:49:1.0
dbadge@aol.com
Flowing groundwater in there, that would.
0:49:0.590 --> 0:49:5.570
David Wangerin
So you're saying you're saying payment should be separated depending on type of installation?
0:49:7.60 --> 0:49:7.220
dbadge@aol.com
Yes.
0:49:8.800 --> 0:49:10.460
David Wangerin
So so can we clarify that?
0:49:9.760 --> 0:49:13.20
dbadge@aol.com
So some of they wouldn't, they wouldn't all use that.
0:49:13.80 --> 0:49:17.290
dbadge@aol.com
But if you're using it then that should be a separate line down.
0:49:17.340 --> 0:49:24.30
dbadge@aol.com
Or you can make it the the payment clause makes it to where you can just lump it all together and you can.
0:49:24.280 --> 0:49:33.440
dbadge@aol.com
Yeah, but when you get into big pipe, yeah, that all said and we're into, you know, where it's really big numbers for. Yeah.

0:49:34.590 --> 0:49:39.860
dbadge@aol.com
Or bypassing could be more than the the cost of pipeline.

0:49:41.750 --> 0:49:44.390
Gean Na
So, Dave, yeah, I'm.
0:49:44.400 --> 0:49:47.0
Gean Na
I'm not exactly sure where to go with this, but I'm I'm trying to.
0:49:48.320 --> 0:49:57.50
Gean Na
You know, when I look at the old Green Book, I think about Eric Updyke a lot and I feel like it is like intent and I know you were a big part of it too.

0:49:57.110 --> 0:49:57.290
dbadge@aol.com
Yeah.

0:49:57.170 --> 0:50:2.270
Gean Na
When Eric wrote this, I I again I'm just trying to think of this as the way Eric did.
0:50:3.840 --> 0:50:12.200
Gean Na
So Eric had, or let's call it generic light items that he felt this as applicable for all things 500.
0:50:12.210 --> 0:50:16.660
Gean Na
And then there was like the E to catch everything else, which we know this is problematic.
0:50:17.840 --> 0:50:19.830
Gean Na
Uh, but we have this.

0:50:19.840 --> 0:50:33.380
Gean Na
This was a good baseline, so to speak, and I'm trying to think of it as a way that we're like the first year engineer that has to put a project on together like really doesn't know this technology or methods and needs something, right.

0:50:33.860 --> 0:50:34.60
dbadge@aol.com
Yeah.

0:50:34.500 --> 0:50:36.30
Gean Na
That's why I like this.

0:50:52.540 --> 0:50:52.880
dbadge@aol.com
Right.
0:50:36.420 --> 0:50:59.180
Gean Na
It's it's, it's it's, it's clear on what you what your checklist is you've kind of done that with identifying those things in the measuring right by at by giving additional language on the other things to look out for uh in your reference payment language that you borrowed from LA County.

0:51:7.590 --> 0:51:7.770
dbadge@aol.com
Yeah.

0:51:0.420 --> 0:51:9.600
Gean Na
You're right, I agree that it's either unit price or lump sum, and that's up to the engineer, to the side and and there's also this.

0:51:9.610 --> 0:51:10.570
Gean Na
This is the catch all.
0:51:10.580 --> 0:51:13.510
Gean Na
Be all that, uh, Colin, call that which I agree.
$0: 51: 13.520-->0: 51: 15.520$
Gean Na
It kind of like this language.
0:51:21.540 --> 0:51:21.760
dbadge@aol.com
Yeah.
0:51:15.530 --> 0:51:23.150

## Gean Na

Here is the same as E that that let's say Eric used to have it the Green Book and and and everyone.
0:51:23.160 --> 0:51:24.690
Gean Na
I'm just thinking out loud here, guys.
0:51:24.700 --> 0:51:27.790
Gean Na
Um, I don't know what the best solution is.

0:51:34.460 --> 0:51:35.400
dbadge@aol.com
Yeah, yeah.
0:51:42.700 --> 0:51:42.860
dbadge@aol.com
Yeah.

0:51:27.850 --> 0:51:43.30
Gean Na
I think I think it's a combination of old and new, Dave and I, I, I I wanna just put a pin on this and let's
table this to that working group or task group.
0:51:44.20 --> 0:51:55.480
Gean Na
But my my thoughts, Dave and in near the expert, I just feel like I think the solution is somewhere in the middle and that would be my thought.

0:51:53.980 --> 0:51:55.510
dbadge@aol.com
Yeah, that's what I thought.
0:51:55.800 --> 0:51:59.460
dbadge@aol.com
Kelly County Sand forwarding was in the middle on that.
0:51:59.810 --> 0:52:0.50
Gean Na
Umm.
0:52:11.720 --> 0:52:11.880
dbadge@aol.com
Yeah.
0:52:3.0 --> 0:52:14.910
Gean Na
Yeah, but my my again just going back to if we were to strike a the, you know, I've line items ABCD are are we helping the greenbook?

0:52:16.130 --> 0:52:18.620
Gean Na
Are we making it more difficult for the specifier?
0:52:21.290 --> 0:52:21.500
dbadge@aol.com
Yeah.

0:52:18.980 --> 0:52:23.210
Gean Na
That's my challenge, I guess, like I don't know what your word to use there, but.
0:52:25.570 --> 0:52:25.830
Gean Na
You know.
0:52:25.310 --> 0:52:27.160
dbadge@aol.com
Hey I struggled on this part too.
0:52:28.90 --> 0:52:28.440
Gean Na
Umm.

0:52:27.170 --> 0:52:39.230
dbadge@aol.com
That's that was the part that that I did not get, you know, I put in the original words and I put in the the way I tried breaking it up for line items.

0:52:39.240 --> 0:52:41.510
dbadge@aol.com
And that was line long and cumbersome.
0:52:42.560 --> 0:52:42.810
Gean Na
Umm.

0:52:43.750 --> 0:52:47.230
dbadge@aol.com
So the more eyes that are on this the better.
0:52:44.510 --> 0:52:48.490
Gean Na
Well, it's I, yeah.
0:52:48.500 --> 0:52:50.950
Gean Na
And let's let's build on that guy's other team.
0:52:51.700 --> 0:52:56.550
Gean Na
Dave, I know you've been spending a lot of time here and we have involvement from agency.
0:52:56.560 --> 0:52:58.410
Gean Na
Our most sorry, let me step back.

0:53:1.520 --> 0:53:1.820
dbadge@aol.com
Right.
0:52:58.500 --> 0:53:8.460
Gean Na
You have help on this part five work mostly from other material industry manufacturers, right.
0:53:14.620 --> 0:53:14.800
dbadge@aol.com
Yeah.
0:53:8.530 --> 0:53:16.260
Gean Na
And I I this is an area that agencies, if anything, should be really involved in that that do this work.
0:53:18.70 --> 0:53:22.610
Gean Na
Let let's try to gather them and I don't know who they are and they may be here, but I don't know of.
0:53:22.690 --> 0:53:33.470
Gean Na
But for the agencies that are here, do you guys think you guys can get people at your respective agencies to get involved in this section and provide some recommendations?

0:53:35.150 --> 0:53:40.930
Gean Na
I'm kind of calling on the agencies here call in Dickie Allen, Mark, Rob.
0:53:40.580 --> 0:53:42.610
Giljum, Mark
Sure. Yeah.

0:53:42.680 --> 0:53:44.950
Gean Na
Um, yeah.
0:53:45.160 --> 0:53:45.780
Giljum, Mark
You know, I think.

0:53:44.960 --> 0:53:53.290
Gean Na
And my my ask is if you guys can talk to your folks on hey, how how would you like this two sections to be written?

0:53:54.590 --> 0:53:55.0
dbadge@aol.com
Yeah.
0:53:55.10 --> 0:54:5.490
dbadge@aol.com
And and we ought to get LA County sand involved in it too, because they they do more large diameter pipe and like Ellie County Public works would do more small diameter pipe.

0:54:5.500 --> 0:54:6.690
dbadge@aol.com
So it's it's.

0:54:6.740 --> 0:54:12.320
dbadge@aol.com
Yeah, we need both of them to to kind of get their input into it for agency.
0:54:12.330 --> 0:54:16.920
dbadge@aol.com
So that Orange County sand has has both but more large I think.
0:54:21.150 --> 0:54:21.760
Gean Na
OK.
0:54:21.870 --> 0:54:22.180
Gean Na
Yeah.

0:54:22.190 --> 0:54:23.70
Gean Na
So I'm I'm just asking.
0:54:24.680 --> 0:54:30.250
Gean Na
The group here, if you guys can get some but some eyes on that those two sections please.
0:54:32.650 --> 0:54:32.870
Giljum, Mark
Sure.
0:54:40.170 --> 0:54:41.270
Giljum, Mark
1314.

0:54:48.730 --> 0:54:51.550
Gean Na
OK, I'm just putting some notes in the meeting minutes on that.

0:54:52.450 --> 0:54:52.740
dbadge@aol.com
Yeah.

0:54:52.750 --> 0:54:55.470
dbadge@aol.com
And I can put the original wording back in here too, that we had.
0:54:56.750 --> 0:54:59.210
Gean Na
Yeah, Ana, back here.
0:55:5.390 --> 0:55:10.160
Gean Na
But Dave, what I'll do, I'll, I'll take that text that you shared.
0:55:11.930 --> 0:55:12.210
dbadge@aol.com
OK.
0:55:10.170 --> 0:55:17.180
Gean Na
I'll put it into the comments under payment so that it's kind of it's here and document for reference.
0:55:31.460 --> 0:55:31.740
Gean Na
OK.

0:55:41.380 --> 0:55:41.880
Giljum, Mark
Sheet.

0:55:42.640 --> 0:55:42.910
Gean Na
Yeah.

0:55:42.920 --> 0:55:45.940
Gean Na
And then so Dave, this is where things could get a little bit muddier, right?
0:55:46.350 --> 0:55:46.530
dbadge@aol.com
Yeah.

0:55:46.40 --> 0:55:51.270
Gean Na
You we have additional language for lining and and then separate.

0:55:51.280 --> 0:55:55.270
Gean Na
So I would just say all this just needs to be cleaned up and.
0:55:55.270 --> 0:55:55.470
dbadge@aol.com
Yeah.

0:55:58.120 --> 0:55:58.380
Gean Na
OK.
0:55:58.300 --> 0:56:14.510
dbadge@aol.com
Yeah, this is the part that I had not figured out that I yeah that I had like two different ideas on there and and it was just yeah, I struggled on that one more than than any of the rest of the rest of the technical stuff is different than this one.

0:56:16.330 --> 0:56:16.640
Gean Na
Right.
0:56:17.470 --> 0:56:17.880
Gean Na
OK.

0:56:18.650 --> 0:56:19.290
Gean Na
Well, yeah.
0:56:19.300 --> 0:56:26.440
Gean Na
Again, if for those of you that have people that are experts in this, if you can get their input, let's let's get this one right.

0:56:26.740 --> 0:56:28.860
Gean Na
But yeah, it it's somewhere in the middle, Dave, right?
0:56:28.910 --> 0:56:29.430
Gean Na
It's.
0:56:29.520 --> 0:56:29.700
dbadge@aol.com
Yeah.

0:56:29.930 --> 0:56:31.600
Gean Na
I feel like we're going in the right direction.
0:56:47.840 --> 0:56:48.60
dbadge@aol.com
Yeah.

0:56:32.70 --> 0:56:50.240
Gean Na
I I I I agree with you this E kind of you know that that was the catch all be all and then at the same time I think there's a lot of value in in in separating some of these things instead of just saying one lump sum, right there's there's you know metrics are good.

0:56:50.710 --> 0:56:51.540
Gean Na
That's my two cents.
0:56:50.740 --> 0:56:52.620
dbadge@aol.com
The the cities will get screwed on it.
0:56:52.630 --> 0:56:55.30
dbadge@aol.com
Yeah, that's that's. Yeah.

0:56:55.860 --> 0:56:56.210
dbadge@aol.com
Yeah.
0:56:56.220 --> 0:56:59.650
dbadge@aol.com
And you can't get rid of a contractor who's price is real low.
0:56:59.660 --> 0:57:23.600
dbadge@aol.com
We had had a deal with city of LA where they had the bypassing you had to bypass the whole yeah, 10 or 15 story apartment building and the, the and so the cost for doing that was like $\$ 35,000$ and the contractor that was the low bidder was $\$ 35,000$ low.

0:57:24.320 --> 0:57:26.480
dbadge@aol.com
And so he did not do that.

0:57:27.290 --> 0:57:33.190
dbadge@aol.com

And it ended up collapsing his liner and it cost him a lot more money to get that whole thing taken out of there.

0:57:33.980 --> 0:57:37.300
dbadge@aol.com
So it's, you know, I kind of like it.
0:57:37.310 --> 0:57:39.380
dbadge@aol.com
It just makes everybody head up. Y'all.
0:57:39.390 --> 0:57:42.390
dbadge@aol.com
Here's a here's something you gotta put into the bed. So.
0:57:43.990 --> 0:57:45.930
Gean Na
Right. OK.
0:57:47.860 --> 0:57:58.0
Gean Na
So that before we leave part five, is there anyone here at this subcommittee that can participate with Dave and and help get this to the finish line?

0:57:59.860 --> 0:58:0.130
Gean Na
And.
0:58:0.140 --> 0:58:6.960
Gean Na
And I'm gonna ask that, you know, a small team before him, then meet at the beginning of the month.
0:58:9.430 --> 0:58:14.440
Gean Na
And it doesn't have to be people here you know, per se, but maybe it's an expert in this technology or not.
0:58:14.450 --> 0:58:14.940
Gean Na
Technology.
0:58:14.950 --> 0:58:23.340
Gean Na
But in this type of work, but I I do think this is an area that kind of time for the agencies to weigh in a little bit more.

0:58:27.620 --> 0:58:30.620
Gean Na
And you've volunteers or anyone from this group.

0:58:34.420 --> 0:58:36.220
dbadge@aol.com
We can send some emails out to everybody.
0:58:37.880 --> 0:58:39.930
dbadge@aol.com
About, you know, trying to volunteer for this.
0:58:41.770 --> 0:58:42.30
Gean Na
OK.

0:58:46.940 --> 0:58:56.690
Gean Na
Umm OK, any any Dave I I guess let's for you just pick a date at the beginning of the month and then we'll invite the subcommittee to come join.

0:59:2.530 --> 0:59:2.700
dbadge@aol.com
Yeah.

0:59:17.610 --> 0:59:17.830
dbadge@aol.com
Yeah.

0:58:59.40 --> 0:59:22.840
Gean Na
You know, focused on part 5 and get through this language and I'm just thinking about 2024, I'm thinking ring is probably a good time to say, OK , this is it, this is this is the near you know $99 \%$ complete done timeline and then we're going through the back and forth with you know the editorial committee at that point.

0:59:24.400 --> 0:59:26.990
Gean Na
But very quickly it it's gonna turn into.
0:59:30.10 --> 0:59:30.190
dbadge@aol.com
Yeah.
0:59:27.60 --> 0:59:32.650

## Gean Na

It's like candy that only three meetings that you could look at it that way, which is not a lot.
0:59:31.210 --> 0:59:33.160
dbadge@aol.com
Yeah, I yeah.

0:59:32.660 --> 0:59:38.720
Gean Na
So the meetings need to be working, meetings kind of like what we did today, but just get it there.
0:59:37.530 --> 0:59:40.790
dbadge@aol.com
Yeah, I'll try and clean this up over over Christmas here.

0:59:45.500 --> 0:59:46.150
Gean Na
OK.

0:59:42.430 --> 0:59:47.390
dbadge@aol.com
So we got something, but for the January meeting and then see if we can put together.
0:59:46.260 --> 0:59:56.240
Gean Na
So Dave, this file is dated November 14th and I will send this out to the group and but this will be the working version moving forward.

0:59:55.270 --> 0:59:57.350
dbadge@aol.com
What we want more agency people.
0:59:58.450 --> 0:59:59.390
Gean Na
Yeah, of course.
0:59:59.650 --> 1:0:1.500
Gean Na
OK, let's, let's move on guys.

1:0:1.510 --> 1:0:3.520
Gean Na
I I we're at the top of the hour right now.
1:0:6.230 --> 1:0:8.460
Gean Na
I wanted to move on to change 329.
1:0:8.470 --> 1:0:20.270
Gean Na
This is um about the minimal mandrel size I I wanted to share with everyone here today that there was a small group that met and discussed uh this item.

1:0:21.540 --> 1:0:48.850
Gean Na

It included Jeff from National Clay Pipe, Dickie Fernandez, Alan from city of LA Dickey's from Orange County, and myself, uh, we we kind of talked about this a little bit and wanted to formulate a plan on how we can move forward on this and kind of where we were at was we were looking at Irvine Water District who almost exclusively uses PVC.

1:0:49.830 --> 1:0:56.820
Gean Na
Uh, so I reached out to them and I also looked at our greenbook roster at they they are not in member of Green Book.

1:0:57.310 --> 1:1:10.880
Gean Na
I'm sure they use greenbook I'm guessing and I'm pretty sure of it, but nevertheless they they're not an active member of Green Book and I haven't seen them at our meetings recently, so I invited them to join today.

1:1:10.890 --> 1:1:11.590
Gean Na
They're unavailable.
1:1:12.490 --> 1:1:14.730
Gean Na
Umm. But we wanted to pick their brain.
1:1:15.730 --> 1:1:16.110
Gean Na
Umm.
1:1:16.280 --> 1:1:38.0
Gean Na
So we've engaged them and what we also talked about what that small group was creating kind of a separate task group to to really get through the bottom of this and talk to people like Irvine Water District to see if they have any input on this subject matter on the minimal mandrel size.

1:1:38.810 --> 1:1:40.260
Gean Na
Quick recap for everyone here.

## 1:1:41.200 --> 1:1:42.380

Gean Na
We talked about this.

## 1:1:42.490 --> 1:1:51.440

Gean Na
Since March of 2023, we've heard presentations from Ken Carlson from Jeff, both from National Clay Pipe Institute.

1:1:57.390 --> 1:1:57.540
dbadge@aol.com
Yeah.
1:1:52.530 --> 1:2:1.860
Gean Na
Uh, the nuance is in that ASTM there's a reference of table one and then there's also an appendix that gives you an example of how to size a mandrel.

1:2:2.870 --> 1:2:5.970
Gean Na
Uh, we've also had input from AGC.
1:2:6.880 --> 1:2:11.710
Gean Na
Who will say this is what the industry is doing or has been doing?
1:2:12.780 --> 1:2:30.230
Gean Na
And then we also have folks here today that are saying set aside from what the industry has traditionally done, what's the right thing to do and and that's what the where the conversation is and which is why we're asking Irvine Water District 2 to give us their input. Um.

1:2:30.370 --> 1:2:45.620

## Gean Na

So right now that task group of proposed proposed meeting December 5th and I have not heard back if Irvine can attend at that time, but we wanna make sure that they can be independence.

1:2:46.830 --> 1:2:52.660
Gean Na
Uh, so does anyone wanna be part of this kind of task group, so to speak?
1:2:54.600 --> 1:2:55.600
David Wangerin
Sure, Dan, you can include me.
1:2:56.460 --> 1:2:57.230
Gean Na
Was that you, David?
1:2:58.860 --> 1:2:58.990
David Wangerin
Yes.
1:2:59.570 --> 1:2:59.900
Gean Na
OK.

1:2:59.910 --> 1:3:0.360
Gean Na
Thank you.
1:3:0.370 --> 1:3:0.960
Gean Na
Just I'm.
1:3:1.350 --> 1:3:2.110
Gean Na
I'm typing blind.
1:3:3.820 --> 1:3:4.460
Gean Na
Anyone else?
1:3:8.260 --> 1:3:9.530
Jeff Boschert
Did Gene, this is Jeff.
1:3:14.350 --> 1:3:14.620
Gean Na
Right.
1:3:9.620 --> 1:3:14.990
Jeff Boschert
We also reached out to Jensen Lee from city of San Diego to be involved.
1:3:15.320 --> 1:3:18.520
Jeff Boschert
I guess we this was sort of before we decided on the task group.
1:3:20.280 --> 1:3:20.670
Gean Na
Umm.
1:3:25.110 --> 1:3:27.60
Gean Na
Anyone else that wanna be included in this?
1:3:30.900 --> 1:3:31.280
Gean Na
OK.
1:3:30.730 --> 1:3:39.80
dbadge@aol.com
Gene, this day we got to reach out to the plastic pipe people, so it it just it looks it has a bad feel to it.

1:3:39.210 --> 1:3:43.180
dbadge@aol.com
Just you know that it's their competitors are trying to push this.
1:3:43.890 --> 1:3:44.480
dbadge@aol.com
Yeah, it.
1:3:44.530 --> 1:3:46.440
dbadge@aol.com
Yeah, it may be the right thing to do.
1:3:46.450 --> 1:3:53.40
dbadge@aol.com
May not be the right thing to do, but it it really ought to involve the people that manufactured that pipe.
1:3:53.90 --> 1:4:3.260
dbadge@aol.com
Could the manufacturers are like you guys, you know that you you wanted your pipe installed correctly and they want their pipe installed correctly, but they ought to be part of the mix.

1:4:4.550 --> 1:4:5.840
Gean Na
I absolutely agree.
1:4:10.220 --> 1:4:10.420
dbadge@aol.com
Yeah.
1:4:6.140 --> 1:4:15.110
Gean Na
Um and I know they've been in in part of this here too, so I'll invite them to that meeting since it's kind of a more targeted uh discussion.

1:4:17.620 --> 1:4:19.180
Gean Na
Yeah, I'll be sure that they're aware of it too.
1:4:19.570 --> 1:4:23.380
dbadge@aol.com
Yeah, that, that and the contractors both, you know that you know.
1:4:23.390 --> 1:4:30.20
dbadge@aol.com
So the contractors aren't getting screwed, that all of a sudden there's a new test that something that passed before then been working.

1:4:30.30 --> 1:4:30.500
dbadge@aol.com
OK.
1:4:30.970 --> 1:4:33.640
dbadge@aol.com
You know, maybe those are the right figures or maybe they're not.
1:4:33.650 --> 1:4:34.370
dbadge@aol.com
So I don't know.
1:4:35.460 --> 1:4:35.820
Gean Na
Yeah.

1:4:35.880 --> 1:4:38.820
Gean Na
No, I mean and that's why we have representative from agency, right.
1:4:39.80 --> 1:4:39.230
dbadge@aol.com
Yeah.
1:4:40.200 --> 1:4:44.30
Gean Na
So you know this task group is not gonna be the final decider group.
1:4:44.80 --> 1:4:51.880
Gean Na
It's gonna just be a kind of focus group to talk about things in the detail so that we're not spending too much time at this meeting.

1:4:52.130 --> 1:4:57.340
Gean Na
But once they're done, it will come back here and it will have to go through the rest of the group.
1:4:58.390 --> 1:5:0.660
Gean Na
Umm, so that that's kind of the idea.
1:5:2.200 --> 1:5:2.600
Gean Na
Umm.
1:5:3.340 --> 1:5:7.420
Gean Na
And if that task group can't meet, then we'll just have to meet here.

1:5:7.430 --> 1:5:15.680
Gean Na
But uh, I I I do wanna give this topic a couple more meetings and after that we'll have to make a decision on what to do with it.

1:5:16.150 --> 1:5:20.440
Gean Na
But you know the change request occurred spring of last year.
1:5:21.330 --> 1:5:21.640
Gean Na
Uh.
1:5:21.650 --> 1:5:22.780
Gean Na
Which will be a what you know.
1:5:22.790 --> 1:5:23.860
Gean Na
It'll come right around the corner.
1:5:23.870 --> 1:5:30.980
Gean Na
So we'll have to make a decision whether to, uh, someone will have the motion to deny it or we can continue talking about it forever.

1:5:31.310 --> 1:5:32.780
Gean Na
But there's other fish to fry.
1:5:33.640 --> 1:5:33.840
dbadge@aol.com
Yeah.
1:5:34.410 --> 1:5:34.780
Gean Na
OK.
1:5:34.590 --> 1:5:34.790
David Wangerin
They.
1:5:34.830 --> 1:5:35.290
David Wangerin
Hey, gene.

1:5:34.790 --> 1:5:36.300
Gean Na
So yes, go ahead.
1:5:43.190 --> 1:5:43.420
Gean Na
Umm.
1:5:36.750 --> 1:5:54.20
David Wangerin
The one thing I will say too is regardless of what happens regarding the table in section 306783 , the one thing I did notice when I when I went through that section is that we do not define deflection testing for an actual 36 inch pipe.

1:5:56.860 --> 1:5:57.500
Gean Na
Right, David.
1:5:57.510 --> 1:6:0.610
Gean Na
So that's the kind of the crux of the conversation right now.
1:6:0.620 --> 1:6:6.180
Gean Na
Like if you look at the previous language in Green Book it it used to do that.
1:6:6.310 --> 1:6:9.150
Gean Na
It used to define um.
1:6:11.100 --> 1:6:13.520
Gean Na
Whether it was base ID or average ID and then.
1:6:13.620 --> 1:6:15.110
David Wangerin
Or no, I I apologize.
1:6:15.120 --> 1:6:16.370
David Wangerin
I think you missed so.
1:6:16.920 --> 1:6:17.100
Gean Na
Uh.

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1:6:16.420 --> 1:6:21.810
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David Wangerin
So in the section we talk about how we pull the mandrel for 24 inch or smaller so.
1:6:22.760 --> 1:6:23.160
Gean Na
Umm.

1:6:23.920 --> 1:6:35.440
David Wangerin
Less than or equal to 24 inch and 3067833 we say greater than 24 , less than 36 and in section 3067834 we say greater than 36 .

1:6:36.230 --> 1:6:36.590
Gean Na
Right.
1:6:41.280 --> 1:6:41.880
dbadge@aol.com
The.
1:6:37.450 --> 1:6:44.750

## David Wangerin

So we never actually define how the testing for the deflection needs to be done, because it falls in between 3 , three and $3 / 4$.

1:6:47.350 --> 1:6:49.150
Gean Na
OK, I.
1:6:48.490 --> 1:6:50.510
David Wangerin
That, that's that's the only thing I'm saying that that.
1:6:50.520 --> 1:6:52.500
David Wangerin
Yeah, the table, it's the table define.
1:6:52.740 --> 1:7:0.540
David Wangerin
Obviously what the what allowable deflection is, but the actual deflection testing for an actual equal to 36 inch pipe is not defined.

1:7:1.530 --> 1:7:4.590
Gean Na
Oh, just the specific number of 36 is what you're saying.

1:7:4.900 --> 1:7:6.10
David Wangerin
Yeah, because it goes.
1:7:5.780 --> 1:7:7.620
Gean Na
Ohh OK.
1:7:7.890 --> 1:7:8.320
dbadge@aol.com
The.
1:7:6.20 --> 1:7:12.570
David Wangerin
It goes less than or equal to 24 , greater than 24 , less than 36 , and then greater than 36 .
1:7:12.310 --> 1:7:15.290
Gean Na
Uh, I hear you, OK?
1:7:12.580 --> 1:7:19.60
David Wangerin
So we got we gotta fit 36 into Section 3 three or into section 3/4.
1:7:17.830 --> 1:7:21.910
Gean Na
One or the other and for OK, yeah. Definitely noted.
1:7:22.800 --> 1:7:23.740
Gean Na
Yeah, you have a good eye.
1:7:23.750 --> 1:7:24.260
Gean Na
I'll tell you that.
1:7:25.580 --> 1:7:29.980
Gean Na
Uh, OK, we'll make sure that we clarify, clean that up once this is done.
1:7:30.790 --> 1:7:31.90
dbadge@aol.com
Yeah.
1:7:31.100 --> 1:7:39.610
dbadge@aol.com
And on some of that, when you get into, you know, it may cut off at 36 because then it's man entry that you could do and and measure inside of it.

1:7:40.280 --> 1:7:41.770
dbadge@aol.com
Uh, don't know.
1:7:41.840 --> 1:7:48.510
dbadge@aol.com
So what we got up to, you know, I sold some 10 foot diameter pipe yelling we would never run a mandrel through that.

1:7:48.580 --> 1:7:52.500
dbadge@aol.com
I mean, we could go through the insight and and measure if it wasn't right.
1:7:53.460 --> 1:7:53.850
Gean Na
Right.
1:7:53.860 --> 1:7:54.830
Gean Na
No, I I hear you.
1:7:54.960 --> 1:8:1.600
Gean Na
This the the size 36 is that it's in limbo is what David Wangerin is saying. OK.
1:8:3.670 --> 1:8:7.210
Gean Na
Jeff, December 5th is kind of what we're targeting, right?
1:8:8.80 --> 1:8:8.770
Jeff Boschert
That's correct.

1:8:9.230 --> 1:8:9.520
Gean Na
OK.

1:8:8.780 --> 1:8:17.450
Jeff Boschert
I don't think we picked a time gene, but I guess when we met last week, we talked about trying to meet again on on December 5.

1:8:17.900 --> 1:8:24.360
Jeff Boschert
But I think if if if we can get San Diego and Irvine Ranch to come, then we could maybe make that happen.

1:8:25.580 --> 1:8:25.970
Gean Na
OK.
1:8:25.980 --> 1:8:33.230
Gean Na
So I'll I'll get an email chain started with this group, including the plastic pipe manufacturers and Plastic Pipe Institute.

1:8:33.240 --> 1:8:35.310
Gean Na
So univel.
1:8:35.560 --> 1:8:37.410
Gean Na
Jacob, do you wanna be part of this too?
1:8:41.690 --> 1:8:43.60
Gean Na
I don't know if you're still here with us.
1:8:43.630 --> 1:8:43.960
Gean Na
I'm.
1:8:44.10 --> 1:8:47.340
Gean Na
I'm and it blind, but I'll invite them.
1:8:47.430 --> 1:8:54.450
Gean Na
I definitely think it should be part of the discussion, so I'll start that email folks and hopefully we could find a convenient time for the group.

1:8:56.600 --> 1:8:58.370
Gean Na
So the next couple of items here.
1:9:1.520 --> 1:9:8.310

## Gean Na

This is, uh, two more changes that was proposed from Kent, from the Clay Pipe Institute and we put this on hold for the past couple of months.

1:9:8.980 --> 1:9:23.790
Gean Na
Jeff and I had a conversation about what are we going to do with these two things and and very similar to
change 329 is we've been talking about this almost in this entire year and we as a subcommittee need to make a decision.

1:9:24.460 --> 1:9:27.590
Gean Na
I personally don't like the idea that it just be put on hold.
1:9:27.670 --> 1:9:35.180
Gean Na
I would prefer that we motion and remove it and when they're appropriate time is we can reintroduce it if if necessary.

1:9:36.110 --> 1:9:40.720
Gean Na
Um, but Jeff and I also spoke about leaving it here for now.
1:9:40.730 --> 1:9:43.820
Gean Na
And let's reconvene back in January after we meet.
1:9:43.830 --> 1:9:53.510
Gean Na
But I recommend that we make a decision, but for it to just sit on this list and be put on hold isn't, in my opinion, the best thing to do.

1:9:53.520 --> 1:9:56.150
Gean Na
So we just need to move forward and kind of.
1:9:55.580 --> 1:9:59.320
David Wangerin
Again, could you change screens back to the back to the list in the Minutes?
1:10:0.620 --> 1:10:0.990
Gean Na
Yeah.
1:10:1.0 --> 1:10:2.670
Gean Na
Thank you even know I was off the other one.
1:10:2.740 --> 1:10:3.460
Gean Na
Let me go back there.
1:10:11.940 --> 1:10:14.570
Gean Na
The can you guys see the minutes now or the meeting agenda?

1:10:15.330 --> 1:10:15.870
David Wangerin
Yes, thank you.
1:10:15.740 --> 1:10:15.910
Jeff Boschert
Yes.
1:10:16.710 --> 1:10:16.990
Gean Na
Yeah.
1:10:17.30 --> 1:10:18.760
Gean Na
OK, so this is what we're talking about, guys.
1:10:18.770 --> 1:10:27.740
Gean Na
These two items have just been put on hold and um at one point it was asked to be removed and then it was asked to be put on hold.

1:10:28.100 --> 1:10:32.550
Gean Na
So it's been on hold for the past few months, so we just need to do something about this guys.
1:10:33.240 --> 1:10:34.890
Gean Na
Uh it it's it.
1:10:34.900 --> 1:10:36.560
Gean Na
Just can't be on hold for the next year.
1:10:36.990 --> 1:10:38.340
Gean Na
You know, hypothetically speaking.
1:10:39.940 --> 1:10:40.290
Gean Na
OK.
1:10:40.300 --> 1:10:44.80
Gean Na
So we'll we'll talk about this after the new year, guys.
1:10:46.200 --> 1:10:47.0
Gean Na
This item here.

$$
1: 10: 48.40-->1: 10: 50.350
$$

Gean Na
Uh, this was approved by our committee.
1:10:50.500 --> 1:11:4.370
Gean Na
I believe in August submitted to editorial, it fell through the cracks and it was not discussed by the editorial committee, and I believe this was on their agenda last week.

1:11:5.320 --> 1:11:24.860
Gean Na
I don't know what the status of it is, but I it sounds like it's not gonna be printed into 2024 edition Unfortunately, so I'm guessing this will just have to make its way through editorial back to main committee at the beginning of next year and then get printed in the supplemental.

1:11:25.780 --> 1:11:27.360
Gean Na
So just sharing the update with that.
1:11:29.420 --> 1:11:30.320
Gean Na
Uh, any question?
1:11:29.710 --> 1:11:36.770
dbadge@aol.com
See what was out caused projection was that on the the your concrete pipe. Ohh.
1:11:35.740 --> 1:11:36.890
Gean Na
Yeah, a concrete box.
1:11:37.460 --> 1:11:37.750
dbadge@aol.com
Yeah.
1:11:37.760 --> 1:11:38.290
dbadge@aol.com
OK.
1:11:38.500 --> 1:11:39.50
dbadge@aol.com
Ohh bummer.
1:11:39.60 --> 1:11:40.450
dbadge@aol.com
Too bad that didn't make it through.

1:11:40.940 --> 1:11:41.530
dbadge@aol.com
That was simple.
1:11:41.130 --> 1:11:43.540
Gean Na
Yeah, yeah, this is it.
1:11:45.700 --> 1:11:45.840
dbadge@aol.com
Yeah.
1:11:50.330 --> 1:11:50.550
dbadge@aol.com
Yeah.
1:11:43.550 --> 1:12:2.60
Gean Na
Was, you know, frustrating for me, but I I know some agencies are already using ASH to R73 four box, but it's not in the Green Book and uh, I know LA County for example, I is kind of going through that and um, yeah, that's what it was.

1:12:2.70 --> 1:12:2.840
Gean Na
It was.
1:12:4.220 --> 1:12:4.460
dbadge@aol.com
Yeah.
1:12:7.710 --> 1:12:8.60
dbadge@aol.com
Yeah.

1:12:2.850 --> 1:12:8.260
Gean Na
It's a guidance for inspection of, you know, manufacturing or shipping defects.
1:12:8.100 --> 1:12:10.520
dbadge@aol.com
So that would that would be really good to have in there.
1:12:10.530 --> 1:12:13.180
dbadge@aol.com
That is there any way that they can get that?

1:12:13.190 --> 1:12:17.40
dbadge@aol.com
In past our committee, right and it.
1:12:15.710 --> 1:12:17.820
Gean Na
It did late fall.
1:12:17.910 --> 1:12:24.180
Gean Na
It just fell through the cracks and it just didn't get on to the editorial agenda, let's say.
1:12:25.500 --> 1:12:27.50
Gean Na
And now we're late, you know.
1:12:27.550 --> 1:12:27.870
dbadge@aol.com
OK.
1:12:27.520 --> 1:12:34.270
Gean Na
So unless I mean, I could try to present it to the main committee and say, hey, can can you make some accommodations? But.

1:12:33.90 --> 1:12:35.90
dbadge@aol.com
Why don't you try the main committee?
1:12:35.100 --> 1:12:43.440
dbadge@aol.com
Because that's something that's good because we're dealing with that, that one other deal we're you know that people are looking at the cracks and not knowing how wide the cracks are and stuff.

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1:12:43.770 --> 1:12:44.10
dbadge@aol.com
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So.

1:12:44.480 --> 1:12:44.630
Gean Na
And.
1:12:45.610 --> 1:12:47.150
dbadge@aol.com
So the contractor is not getting paid.

1:12:50.80 --> 1:12:50.300
Gean Na
Yeah.
1:12:54.600 --> 1:12:54.980
Gean Na
Yeah.

1:12:55.30 --> 1:12:56.840
Gean Na
No, I couldn't agree with you more, you know.
1:12:47.990 --> 1:12:58.600
dbadge@aol.com
So that's, you know that would that would be a good thing to to have I submitted to make Betty change and see if they can still squeeze it in there.

1:12:59.930 --> 1:13:0.810
Gean Na
Yeah, we'll see you.
1:13:0.820 --> 1:13:1.0
Gean Na
I'll.
1:13:1.10 --> 1:13:1.910
Gean Na
I'll bring it up Thursday.
1:13:4.100 --> 1:13:4.370
Gean Na
OK.

1:13:4.380 --> 1:13:7.780
Gean Na
Any questions on old business before we talk about this new business item here?
1:13:10.870 --> 1:13:11.340
Gean Na
OK.

1:13:11.390 --> 1:13:20.180
Gean Na
So moving on to this item here, this is section 208-3, uh, gasket compression set.
1:13:21.550 --> 1:13:26.740
Gean Na
Let me let me open this up for you guys and this will only take 5 minutes.

1:13:40.590 --> 1:13:43.530
Gean Na
Just scrolling on this book one second guys.
1:14:16.670 --> 1:14:20.80
Gean Na
OK, let me share my change my screen again.
1:14:24.100 --> 1:14:24.430
Gean Na
OK.
1:14:24.440 --> 1:14:26.270
Gean Na
Could you guys see this PDF?
1:14:28.550 --> 1:14:28.690
Jeff Boschert
Yes.
1:14:29.860 --> 1:14:30.430
Gean Na
Thank you.
1:14:30.500 --> 1:14:38.410
Gean Na
OK, so this is section 208 pipe joint types and materials and down in section 2083.
1:14:41.150 --> 1:14:42.830
Gean Na
Whereby we get there.
1:14:49.750 --> 1:14:51.340
Gean Na
OK, so this is 208 .
1:14:51.350 --> 1:14:53.330
Gean Na
3 gaskets for concrete pipe.
1:14:54.970 --> 1:14:55.540
Gean Na
And.
1:14:59.230 --> 1:14:59.500
dbadge@aol.com
Yeah.

## 1:14:58.680 --> 1:15:8.690

## Gean Na

This item right here, this let me zoom in for you guys, this compression SET Max percent of the flexion of 16 .

1:15:10.670 --> 1:15:16.10
Gean Na
It refers to ASTM ND 395, method B, uh.
1:15:16.10 --> 1:15:27.150
Gean Na
What the gasket manufacturing industry had told me was this number is more conservative than anything in the country.

1:15:28.150 --> 1:15:31.400
Gean Na
And what they have to do for greenbook gasket.
1:15:33.500 --> 1:15:42.890

## Gean Na

Is take their set of gaskets that are manufactured and pull the ones that are the most conservative and then sell them to.

1:15:45.150 --> 1:15:46.230
Gean Na
Greenbook project.
1:15:47.540 --> 1:15:53.560
Gean Na
It's a number that is more conservative than the entire table of ASTM 395.
1:16:4.360 --> 1:16:5.360
dbadge@aol.com
The.
1:15:55.140 --> 1:16:23.240
Gean Na
That's and it's also completely overkill and and this is coming from the two primary gasket manufacturers, which is press seal and Hamilton, Kent and both are in agreeance that they they believe that this should just follow the ASTM national standard again what both of them have to do is set aside a separate or a special set of green book gaskets for concrete pipe.

1:16:24.220 --> 1:16:28.90
Gean Na
So again, they're trying to make this align with the national standard.

1:16:30.250 --> 1:16:34.600
Gean Na
So I'll have representatives from Hamilton, Kent and press.
1:16:34.610 --> 1:16:46.450
Gean Na
You'll here here to to present in a little bit deeper in detail, but I wanted to give you guys a first look at this and and you know this isn't something that obviously is trying to get into the 2024 edition.

1:16:46.460 --> 1:16:50.880
Gean Na
But I just wanted to share that with you guys, mainly the agencies here today.
1:16:50.990 --> 1:16:53.700
Gean Na
And I also have a question for the agencies that are still here.
1:16:55.580 --> 1:16:59.30
Gean Na
Is there any one that really understands this?
1:17:0.70 --> 1:17:2.660
Gean Na
Like maybe it's folks at your material labs.
1:17:3.230 --> 1:17:12.860
Gean Na
If you guys have have them, but I I have the question too of why did greenbook choose this number decades ago?

1:17:15.510 --> 1:17:27.420
Gean Na
So if you guys know of anyone that is aware or can get a little bit more engaged in this conversation, please invite them to the GREENBOOK meetings after the new year.

1:17:28.180 --> 1:17:28.770
David Wangerin
Hey gene.
1:17:28.780 --> 1:17:29.730
David Wangerin
How how did this?
1:17:29.800 --> 1:17:31.310
David Wangerin
How did this question come about too?

1:17:32.730 --> 1:17:33.120
Gean Na
Yeah.
1:17:33.130 --> 1:17:44.630
Gean Na
So it was presented to me from a gentleman named Luis Santana, who comes from uh for Terra, which is a former um manufacturer.

1:17:44.640 --> 1:17:51.410
Gean Na
They were bought out by Rinker, but now Louis works for for Hamilton Kent, a gasket manufacturer.
1:17:52.820 --> 1:18:4.130
Gean Na
He this this topic was presented to me and in Full disclosure to you guys, you know, obviously I chair this subcommittee, but I'm also the the Concrete Pipe Association director.

1:18:4.540 --> 1:18:9.990
Gean Na
Though I I asked that he have this conversation with me with his competitor Precio.
1:18:11.150 --> 1:18:17.20
Gean Na
Umm, so we had, let's call it, you know, concrete pipe association discussions on it.
1:18:17.670 --> 1:18:23.280

## Gean Na

And I wanted to make sure that the industry was on the same page, not just Hamilton, Kent.
1:18:24.520 --> 1:18:34.690
Gean Na
And so again, those two groups are in agreeance that they would like this to just follow the ASTM's as opposed to what Greenbook has.

1:18:34.870 --> 1:18:45.300
Gean Na
What the number 16 and I believe the numbers 20 um, I have to qualify that for sure, but it's either 20 or 25 as the master Max deflection.

1:18:45.310 --> 1:18:47.580
Gean Na
But 16 is just off the chart.
1:18:47.790 --> 1:18:48.710
Gean Na
Very conservative.

1:18:50.830 --> 1:18:52.250
Gean Na
But yeah, that's how it was presented to me.
1:18:53.600 --> 1:18:54.130
Jeff Boschert
He had Gina.
1:18:54.140 --> 1:18:57.260
Jeff Boschert
I'm looking at no the rest of the tables for the different pipes.
1:18:57.270 --> 1:19:3.310
Jeff Boschert
And yeah, the clay pipe, one for the synthetic rubber is 20 for compression set.
1:19:3.800 --> 1:19:4.10
Gean Na
Umm.
1:19:3.380 --> 1:19:5.920
Jeff Boschert
Same method 395, method B.
1:19:7.700 --> 1:19:8.210
Gean Na
Funny, right?
1:19:8.790 --> 1:19:9.900
Jeff Boschert
20 yeah, 20.
1:19:9.610 --> 1:19:9.950
Gean Na
Yeah.
1:19:9.960 --> 1:19:11.0
Gean Na
Yeah, that's what I thought it was.
1:19:11.670 --> 1:19:12.280
Jeff Boschert
Yeah.
1:19:12.490 --> 1:19:17.590
Jeff Boschert
And then but for the urethane ones, it's like 3, you know, 3\% Max.

1:19:18.670 --> 1:19:22.680
Jeff Boschert
But if it's not a, you know the urethane is different than a synthetic rubber.
1:19:23.440 --> 1:19:23.770
Gean Na
Right.
1:19:24.370 --> 1:19:24.670
Jeff Boschert
Now.
1:19:28.990 --> 1:19:29.480
Jeff Boschert
Right.
1:19:29.490 --> 1:19:29.880
Jeff Boschert
Right.
1:19:29.890 --> 1:19:30.740
Jeff Boschert
Synthetic rubber.
1:19:30.550 --> 1:19:31.200
dbadge@aol.com
The.
1:19:25.140 --> 1:19:31.660
Gean Na
Yeah, and this this is specific to gaskets for concrete pipe 2083, right?
1:19:31.150 --> 1:19:32.250
Jeff Boschert
Yeah, yeah.
1:19:33.790 --> 1:19:34.320
Gean Na
Right there.
1:19:35.490 --> 1:19:36.380
Gean Na
Could better rubber.
1:19:36.440 --> 1:19:36.870
Gean Na
There it is.

1:19:37.430 --> 1:19:37.580
Jeff Boschert
Yeah.

1:19:38.10 --> 1:19:43.940
Gean Na
So that's that's how it was presented, David and and now I'll let the manufacturer speak a little bit more about it.

1:19:43.950 --> 1:19:45.720
Gean Na
They they know this better than I do.
1:19:46.170 --> 1:19:46.560
dbadge@aol.com
The.

1:19:46.530 --> 1:19:49.350
Gean Na
Umm but yeah, just giving you guys a sneak peek, I guess.
1:19:50.610 --> 1:19:51.510
dbadge@aol.com
Gene, this is Dave.
1:19:51.520 --> 1:19:55.200
dbadge@aol.com
I just looked back in the 1994 edition.
1:19:57.230 --> 1:19:57.430
Gean Na
Umm.

1:19:55.210 --> 1:19:58.870
dbadge@aol.com
That's the earliest I could find, and so it's that same.
1:19:59.170 --> 1:20:0.880
dbadge@aol.com
That same number is in that.
1:20:1.490 --> 1:20:1.720
Gean Na
Umm.
1:20:2.200 --> 1:20:2.460
dbadge@aol.com
Fine.

1:20:4.430 --> 1:20:4.900
Gean Na
Yeah.

1:20:4.960 --> 1:20:5.320
Gean Na
Yeah.

1:20:5.330 --> 1:20:7.140
Gean Na
And I that's what I'm wondering too.
1:20:6.460 --> 1:20:9.250
dbadge@aol.com
It's always probably wrong for a long time, so it's yeah.

1:20:9.930 --> 1:20:11.300
Gean Na
Yeah, probably.
1:20:10.640 --> 1:20:21.660
Jeff Boschert
Gene, what is it in the in the concrete and I don't even know the standard number of the concrete pipe standard has a has a massimini table similar with with the properties for the elastomer.

1:20:21.970 --> 1:20:26.520
Jeff Boschert
Is there a number in the in the concrete pipe standard for compression set?
1:20:26.530 --> 1:20:27.310
Jeff Boschert
I'm assuming there is.

1:20:27.710 --> 1:20:33.470
Gean Na
They refer to that ASTM through 95 which is which is 20 I believe.
1:20:33.940 --> 1:20:39.710
Jeff Boschert
Well, the 395, that's the method on how to on how to on, how to perform the compression set test.
1:20:40.100 --> 1:20:40.340
Gean Na
Uh-huh.
1:20:40.140 --> 1:20:41.10
Jeff Boschert
That's what that is.

1:20:43.10 --> 1:20:43.250
Gean Na
Umm.

1:20:41.20 --> 1:20:47.270
Jeff Boschert
That's a test method, but the values the tolerances should be in the concrete pipe standard.
1:20:58.950 --> 1:20:59.250
Jeff Boschert
OK.

1:20:48.330 --> 1:20:59.380
Gean Na
Umm yeah, I I don't know if it's if it clearly defined I it this is this is an area that I I can't speak on you know intelligently.

1:20:59.390 --> 1:21:1.440
Gean Na
So I'll let Hamilton can impress you.
1:21:2.210 --> 1:21:4.990
Gean Na
Kind of defend that question, so to speak.
1:21:5.610 --> 1:21:5.830
Jeff Boschert
Here.

1:21:5.960 --> 1:21:7.490
Gean Na
But you know what's funny?
1:21:7.500 --> 1:21:9.630
Gean Na
When I did talk to them about it, I asked him.
1:21:9.640 --> 1:21:18.410
Gean Na
I'm like how many people actually know the difference between $16 \%$ and $20 \%$ and you know, probably nobody, right.

1:21:18.480 --> 1:21:22.630
Gean Na
It's so and you know, even if you got it.

1:21:22.640 --> 1:21:24.110
Gean Na
I asked him, like, OK, and the field.
1:21:24.120 --> 1:21:25.890
Gean Na
Would anyone even noted offence?
1:21:26.220 --> 1:21:29.860
Gean Na
Is anyone even asking to see the difference and and they are.
1:21:29.870 --> 1:21:38.60
Gean Na
They are making sure that they they supply the ones that have the $16 \%$, but I challenging math like is anyone even checking?

1:21:38.570 --> 1:21:41.520
Gean Na
It's just an area that's so deep into the weeds.
1:21:41.950 --> 1:21:42.940
Gean Na
No one really knows.
1:21:42.950 --> 1:21:49.640
Gean Na
And I doubt there's any experts in on that subject, unless you're a a gasket manufacturer.
1:21:51.20 --> 1:21:58.480
Gean Na
So yeah, that's my two cents there, so I'll invite them to our meeting in January, folks, just to just to uh, a sneak peek again.

1:22:7.70 --> 1:22:7.380
Gean Na
Umm.
1:22:0.120 --> 1:22:14.330
dbadge@aol.com
Gene, we probably had to look at all the rest of the the gasket materials because gasket materials, gasket material, you know that's if it's different, you know that it ought to be the same standard for clay that it is for plastic that it is for concrete.

1:22:14.740 --> 1:22:16.770
dbadge@aol.com
I would think, yeah.

1:22:17.910 --> 1:22:19.40
Gean Na
Yeah, it's probably a good idea.
1:22:18.120 --> 1:22:19.960
Jeff Boschert
While they're all different types of rubber so.
1:22:19.250 --> 1:22:21.330
dbadge@aol.com
We have different numbers and different areas.
1:22:22.210 --> 1:22:22.950
Gean Na
Yeah.

1:22:23.130 --> 1:22:23.740
Gean Na
You're you're.
1:22:23.790 --> 1:22:25.120
Gean Na
You're you're probably right.
1:22:25.130 --> 1:22:28.380
Gean Na
And obviously 208, three are specific to concrete pipe.
1:22:28.970 --> 1:22:42.830
Gean Na
I can ask the gasket folks to look at greenbook for other materials and kind of just do the same thing and and try to align greenbook to the national standard, which is the direction that greenbook is going or has been going.

1:22:43.730 --> 1:22:48.180
Gean Na
But umm, I was just, you know, presented on this topic because it was concrete pipe.
1:22:49.190 --> 1:22:52.80
Gean Na
Umm but yeah, 2O-4.
1:22:53.260 --> 1:22:53.430
Gean Na
Yeah.

1:22:53.440 --> 1:22:54.660
Gean Na
Let me just show it with you guys.
1:22:56.190 --> 1:23:0.940
Gean Na
This is this could explain why it's so conservative.
1:23:1.30 --> 1:23:5.850
Gean Na
Maybe, and I don't know, but I'm a I'm showing this PDF.
1:23:5.860 --> 1:23:7.40
Gean Na
Hopefully you guys could see it.
1:23:7.550 --> 1:23:12.310
Gean Na
There is a section tool 84 for thermal plastic pipe and it just refers back to 2083.
1:23:15.870 --> 1:23:16.130
Gean Na
So.
1:23:18.500 --> 1:23:19.390
Gean Na
Yeah, worth noting.
1:23:19.400 --> 1:23:21.460
Gean Na
Like you said, Dave, but it the thing.
1:23:22.260 --> 1:23:22.470
dbadge@aol.com
Yeah.
1:23:24.670 --> 1:23:37.840
dbadge@aol.com
Because I know the PVC joints that was used early on for for concrete pipe had a set to it and then they went to the polyurethane joints which have been perfect for, you know since probably the 80 s .

1:23:37.850 --> 1:23:40.20
dbadge@aol.com
Jeff will tell me what the what the right?
1:23:40.130 --> 1:23:40.560
dbadge@aol.com
Yeah.

1:23:40.610 --> 1:23:42.420
dbadge@aol.com
When the starting date was for that but.
1:23:42.610 --> 1:23:43.400
Jeff Boschert
Yeah, it was the.
1:23:43.450 --> 1:23:44.900
Jeff Boschert
I think it was a late 60s.
1:23:44.910 --> 1:23:47.400
Jeff Boschert
Well, maybe early 70s.
1:23:47.410 --> 1:23:50.920
Jeff Boschert
The Type G was the the clay pipe joint.
1:23:50.930 --> 1:23:54.220
Jeff Boschert
There's still around today, which is a a urethane.
1:23:54.900 --> 1:23:55.100
dbadge@aol.com
Yeah.

1:23:58.670 --> 1:24:11.400
dbadge@aol.com
The the PVC was the transition between when we had concrete and and and tar joints, and that was the the time of the graduate when they said plastics.

1:24:11.410 --> 1:24:16.550
dbadge@aol.com
Young man, get into plastics and so nobody knew a lot about the plastic stuff at that time.
1:24:17.200 --> 1:24:27.230
dbadge@aol.com
So, but those did take a set and then, but the ones after that were the polyurethane is what they're still using now and it works great so.

1:24:27.200 --> 1:24:27.840
Jeff Boschert
Right.

1:24:32.930 --> 1:24:33.170
dbadge@aol.com
Yeah.

1:24:27.980 --> 1:24:33.950
Jeff Boschert
Yeah, that all that PVC clay pipe joint stuff was before my day, so yeah.
1:24:36.370 --> 1:24:36.780
Gean Na
OK.
1:24:35.910 --> 1:24:37.640
dbadge@aol.com
Well, we see all the old stuff, so it's.

1:24:37.760 --> 1:24:38.270
Jeff Boschert
Yeah.

1:24:39.320 --> 1:24:40.70
dbadge@aol.com
That's how I know.
1:24:38.280 --> 1:24:41.840
Jeff Boschert
Well, they I guess from what I've heard, Dave, they've got a lot of com.
1:24:45.170 --> 1:24:45.370
dbadge@aol.com
Yeah.
1:24:48.310 --> 1:24:48.510
dbadge@aol.com
Yeah.

1:24:49.470 --> 1:24:49.740
Gean Na
Umm.
1:24:51.570 --> 1:24:51.790
dbadge@aol.com
Yeah.

1:24:41.940 --> 1:24:52.970
Jeff Boschert
They had a lot of compressions that issues with those old joints and they weren't in the ground very long and they were leaking for for the for the compression set problems, yeah.

1:24:54.410 --> 1:24:55.190
dbadge@aol.com
Everything evolves.
1:24:56.60 --> 1:24:56.690
Jeff Boschert
That's correct.
1:24:58.20 --> 1:24:58.250
Gean Na
Yeah.
1:24:58.260 --> 1:24:58.470
Gean Na
So.
1:24:58.480 --> 1:25:4.470
Gean Na
So Dave, I just kind of put note on to look at other materials, obviously plastic and concrete is using the same table.

1:25:5.410 --> 1:25:5.510
dbadge@aol.com
Yeah.
1:25:4.480 --> 1:25:6.110
Gean Na
So duly noted.
1:25:6.120 --> 1:25:11.830
Gean Na
There, that's all I have, everyone I know we're just about at the end of our meeting time.
1:25:11.840 --> 1:25:17.380
Gean Na
I know we've lost some people already, but anything else that you guys wanna talk about?
1:25:17.930 --> 1:25:18.850
dbadge@aol.com
Gene, this is Dave.
1:25:18.860 --> 1:25:30.870
dbadge@aol.com
If we want to set a meeting up for January 10th, that's the week before the GREENBOOK meeting for the review and the the stuff from the 500 section that would work good.

1:25:32.170 --> 1:25:34.240
Gean Na
OK, that's the Wednesday, January 10th.
1:25:34.780 --> 1:25:35.20
dbadge@aol.com
Yeah.
1:25:46.50 --> 1:25:46.270
Gean Na
Sure.
1:25:37.240 --> 1:25:47.980
dbadge@aol.com
Because the week before that's going to be just would be the third people are just getting back from, you know, vacations or taking longer vacations, whatever, that should force.

1:25:47.150 --> 1:25:49.120
Gean Na
OK. OK.
1:25:49.130 --> 1:25:55.30
Gean Na
I just put that into the Minutes view and I'll I'll open that up and invite.
1:25:57.950 --> 1:25:58.410
Gean Na
You know what?
1:26:0.970 --> 1:26:1.140
dbadge@aol.com
Yeah.
1:25:58.420 --> 1:26:2.380
Gean Na
I don't want to, Dave is invite everyone and they're gonna think this is that is the underground meeting.
1:26:2.530 --> 1:26:5.520
Gean Na
So I'll I'm just gonna invite people that wanna go.
1:26:6.160 --> 1:26:6.340
dbadge@aol.com
Yeah.
1:26:5.530 --> 1:26:8.20
Gean Na
So if you wanna go folks, just ping me.

1:26:9.220 --> 1:26:19.660
Gean Na
But I am going to include the the usual suspect, which is the Jamie and and Jackie, who's who's been helping Dave any.

1:26:21.70 --> 1:26:25.520
Gean Na
Yeah, I didn't know anyone else, but I'll try to get some more people involved from agencies.
1:26:26.970 --> 1:26:28.60
Gean Na
To get them included.
1:26:28.490 --> 1:26:32.531
Gean Na
So OK, on the bottom of the meeting minutes, folks i.e.
1:26:33.710 --> 1:26:36.980
Gean Na
I put to I I listed all the future meetings of 2024.
1:26:38.260 --> 1:26:38.540
Gean Na
I'm.
1:26:38.550 --> 1:26:43.640
Gean Na
I'm just gonna try to do a better job of get the meeting calendar events in your guys's calendars.
1:26:43.650 --> 1:26:45.520
Gean Na
I I know it's awkward.
1:26:45.820 --> 1:26:48.400
Gean Na
The Tuesday before the 3rd Tuesday of the month.
1:26:48.410 --> 1:26:59.90
Gean Na
But I'm gonna try to at least get it into you guys calendars as early as possible, but at latest one week before the meetings, so I'm trying to work overtime for greenbook.

1:26:59.740 --> 1:27:0.710
dbadge@aol.com
Yeah, it.

1:27:3.10 --> 1:27:3.210
dbadge@aol.com
Yeah.
1:27:1.310 --> 1:27:5.10
Gean Na
And get paid overtime guys and get that yearly bonus.
1:27:5.980 --> 1:27:6.140
David Wangerin
Yeah.
1:27:6.150 --> 1:27:7.230
David Wangerin
Let me know how that works gene.

1:27:7.710 --> 1:27:7.850
Gean Na
This.

1:27:7.600 --> 1:27:8.140
dbadge@aol.com
Yeah, right.
1:27:8.150 --> 1:27:9.430
dbadge@aol.com
Yeah, you too.
1:27:9.440 --> 1:27:9.720
dbadge@aol.com
Me too.
1:27:15.850 --> 1:27:15.990
dbadge@aol.com
Yeah.

1:27:10.820 --> 1:27:16.850
Gean Na
Ohh gosh, when Keegan told me about how well Greenbook pays I I signed up right away.
1:27:20.430 --> 1:27:20.710
dbadge@aol.com
Yeah.
1:27:17.180 --> 1:27:20.740
Gean Na
It's it's somewhere between zero and zero, so.

1:27:20.850 --> 1:27:21.50
Giljum, Mark
Come on.

1:27:23.630 --> 1:27:34.140
Gean Na
OK, I wanna wish everyone a early happy Thanksgiving and and happy holidays and I will see you guys all in January if I don't see you on so many's task group meetings.

1:27:34.150 --> 1:27:34.680
Gean Na
But thanks.

1:27:34.760 --> 1:27:36.110
Gean Na
Thanks for sticking around guys.
1:27:36.120 --> 1:27:36.720
Gean Na
You guys take care.
1:27:35.380 --> 1:27:37.40
Giljum, Mark
You you 2, gene.
1:27:36.420 --> 1:27:37.230
David Wangerin
Happy holidays everybody.
1:27:37.760 --> 1:27:38.110
Giljum, Mark
Yeah.

1:27:38.200 --> 1:27:38.910
Giljum, Mark
Thanks a lot gean.
1:27:39.300 --> 1:27:39.460
Gean Na
I.

1:27:39.40 --> 1:27:39.640
Giljum, Mark
Take care yourself.
1:27:39.470 --> 1:27:40.50
Jeff Boschert
Thanks Jean.

1:27:38.990 --> 1:27:40.130
dbadge@aol.com
Happy holidays there, right?
1:27:40.590 --> 1:27:40.810
Gean Na
Bye bye.
1:27:40.670 --> 1:27:41.190
Chiu Tam (BOE DSIG)
Thank you.

