

PUBLIC WORKS STANDARDS, INC. – GREENBOOK COMMITTEE

MEETING MINUTES

September 20, 2018

Presiding: Erik Updyke, APWA Co-Chair

1. Called to Order: 9:32 a.m.
2. Self-Introduction:

Voting Members & Alternates		
1	Arrington, Edward ^T	City of Los Angeles BOE
2	Avazian, Armen ^T	City of Glendale
3	Datuin, Elmer ^T	Riverside County
4	Fahey, Keegan	LA County DPW
5	Fernandez, Birger (Dickie) ^T	Orange County Sanitation District
6	Gasaway, Dave (Edgar) ^T	San Diego County Public Works
7	Gilley, Curt ^T	Terrain Engineering Inc.
8	Grindle, Lance	LA County DPW
9	Kim, Jeewoong (Jun) ^T	Ventura County
10	Kubasek, Chris	Orange County Public Works
11	Macfarlane, Randall	City of Los Angeles BCA
12	Massabki, Raffi (Alt.)	City of Los Angeles BOE
13	Moheize, Omar ^T	City of Burbank
14	Peterson, Dan	DJP Co.
15	Phelps, Daniel J. ^T	Gill & Baldwin, P.C.
16	Ramirez, Onofre	City of Long Beach
17	Tsau, Allison	LADWP
18	Updyke, Erik	Member at Large
19	Vivant, Don ^T	Sully-Miller Contracting Corp.
20	Yeremian, Raffie ^T	Murray Company

Other Participants		
1	Bandziulis, Ruta ^T	Tencate Geosynthetics
2	Chen, Patti Murray ^T	Tencate Geosynthetics
3	Galvez, Temo ^T	City of Fountain Valley
4	LaRue, Thomas (Tom)	ADS
5	McLaughlin, Doug	CPCPA
6	Moore, John	BNi Publications, Inc.
7	Richardson, Charles	LADWP
8	Wilhelm, Vincent ^T	BNi Building News
9	Woolsey, Rory ^T	BNi Building News

(** denotes Member with proxy, ^T denotes attendance via Teleconference,

3. Establish a Quorum:

Self-introductions were made, and a quorum was established at the beginning of the meeting with 19 voting members present.

4. Approval of Minutes from previous Meetings:

A vote to approve the minutes of August 16, 2018 Greenbook Committee meetings was unanimously approved; Motion to approve by Dan Peterson; Seconded by Omar Moheize.

5. Correspondence: None

6. Old Business:

a. Supplement Changes: None

b. Other Old Business: None

7. New Business:

a. Co-Chairman's Report:

- The November 14th, 2018 APWA Southern California Chapter [Greenbook Seminar](#) in Anaheim sold out.
- The ASCE will also host a [Greenbook Seminar](#) November 29th, 2018 in San Diego.

b. Secretary's Report: No report.

c. Vice Chair Communication Report: *Lance Grindle.*

Attached is Change Submittal Log dated 9/20/2018. *Change numbers added to date after 298SP (Standard Plans Part 2) are:*

299SP Section 3 (Standard Plans revisions)

300SP Section 4 (Standard Plans revisions)

301SP Section 5 (Standard Plans revisions)

302SP Section 6 (Standard Plans revisions)

303SP Section 1 (Standard Plans revisions- Remainder).

Next change number >>> **304**

d. Vice Chair Editorial Report: *Keegan Fahey.*

Met on 09/19/18, Part I edits for definition changes and upgrades ongoing.

e. Surface Materials and Methods Subcommittee Report: *Chris Kubasek,*

A meeting was held September 18 (*next meeting Oct. 18, 2018*)

- 1) Section 213-5 “Geotextiles and Geogrids” discussions are closed; will submit a request for change and will send the final recommendations to Editorial by next meeting (October 2018).
 - 2) Stabilized Base & Asphalt Task Force completed its charter.
 - 3) A new “Geosynthetics” Task Force is recommended by Chris Kubasek to help bring different Parts of the Greenbook addressing geosynthetics on par with each other.
- f. Underground Materials and Methods Subcommittee Report: Keegan Fahey.
The September meeting was cancelled (*next meeting Oct. 18th, 2018*).
- 1) *Keegan Fahey*; an informative tour was hosted Tuesday 9/18/18 by the California Precast Concrete Pipe Association at the Thompson Pipe Group, Rialto Facility to get an understanding of their RC pipe manufacturing process.
 - 2) *Curt Gilley*; suggested planning similar field trips in the future (possibly once a year).
 - 3) *Curt Gilley*; work on Part V Pipeline System Rehabilitation restructuring and updating will start after the MH installation specification review is complete and changes moved to Editorial (projected Oct-Nov).
- g. Standard Plans Subcommittee Report: Temo Galvez.
A meeting was held September 6th (*next meeting October 4th, 2018*)
- 1) Progress on STD Plans editorial changes on target (85% complete) work will proceed on structural changes after Oct. 2018.
- h. General Provisions Subcommittee Report: Daniel Phelps, No Report.
Subcommittee did not meet in September (*next meeting October 10th, 2018*)
- i. Special Provisions Guide Subcommittee Report: No report.
- j. Editorial Standards Subcommittee Report:
A meeting was held September 19th, 2018 (*next meeting Oct. 17th, 2018*)
- 1) Subcommittee recommended some of the Terms and Definitions to be removed (*dictated, not used in the Greenbook or industry*).
 - 2) Erik compiled and sent an Errata to the 2018 Greenbook to all subcommittees and task forces. The Errata (Attached) will be properly formatted and posted online (there will not be a 2019 supplement published). If more errors & omissions are found, please forward them to Editorial.
- k. Other New Business: (None)

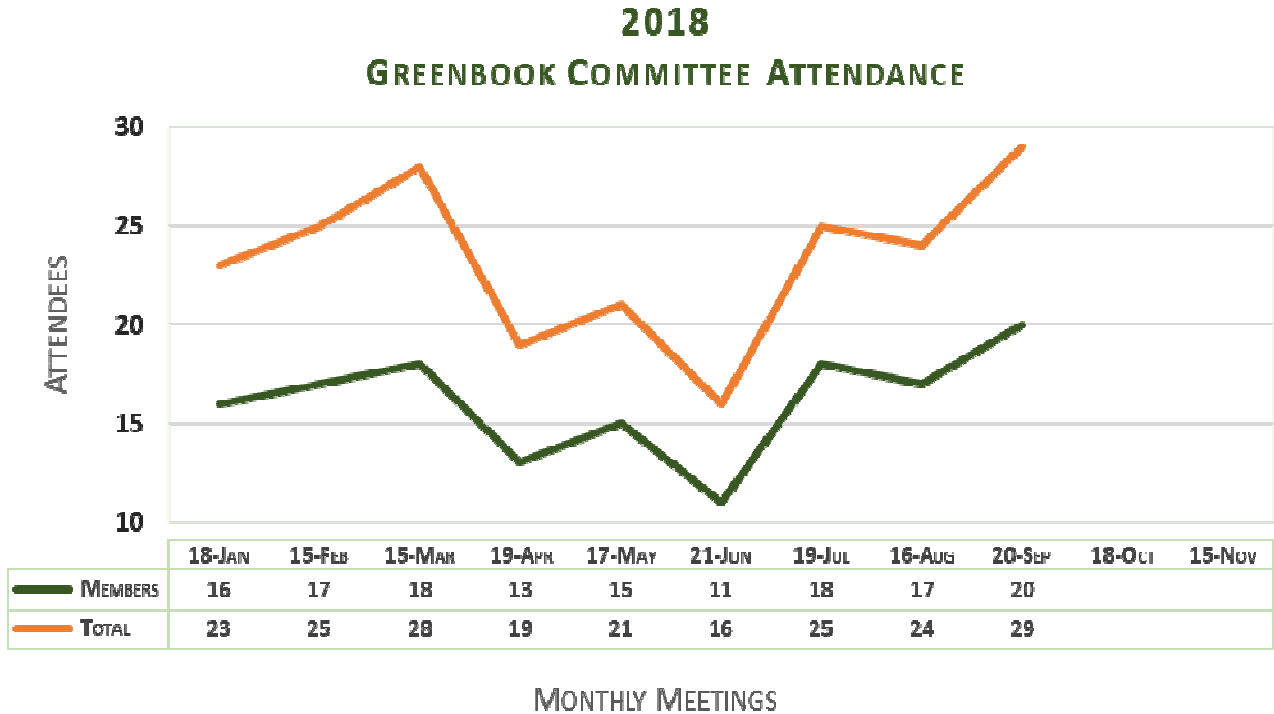
8. General Discussion:

- 1) Omar Moheize of the City of Burbank, had a general inquiry on using recycled plastic water bottles in AC Pavement mixes (tried in India) in lieu of binders. For more information contact: omoheize@ci.burbank.ca.us (818) 238-3943.
- 2) Charles Richardson of LADWP Power shared that LADWP started a study with Auburn University (National Center for Asphalt Testing) regarding Cold Mix AC. For more information contact: charles.richardson@ladwp.com (213) 367-0181.

9. Next Meeting: November 18, 2018

10. Adjourned: 9:54 a.m.

Submitted by: Raffi Massabki, Secretary
 City of Los Angeles, Dept. of Public Works
 Bureau of Engineering, Design Standards & Investigations
 1149 S. Broadway, Suite 635 Los Angeles, CA 90015
Raffi.Massabki@Lacity.org (213) 485-5310



Standard Specifications for Public Works Construction

The “Greenbook”

2018 Edition

Errata No. 1

Page 88, Table 203-3.4.5 (A):

Replace note 4 with the following, “PME shall contain a minimum of 2.5 percent polymer by weight of residual asphalt.”

Page 89, Table 203-3.4.5 (B):

Replace “PMCOS-1h)” with “PMCQS-1h” in the table title.

Replace note 4 with the following, “PME shall contain a minimum of 2.5 percent polymer by weight of residual asphalt.”

Page 97, 203-6.3.2:

Insert “and grade” after “class” in the first sentence of the second paragraph.

Page 98, 203-6.3.2:

Replace “alternate” with “Type III” in the third paragraph.

Page 98, 203-6.4.2:

Replace “WMA additive” with “warm mix additive (WMA)” in the second and fourth sentences of the first paragraph.

Page 100, 203-6.5.4:

Replace “alternate” with “Type III” in the first sentence of the first paragraph.

Page 116, 203-13.10:

Replace “203-6.4.1” with “203-6.4.2” in the last sentence.

Page 316, 302-5.1:

Replace “type of mixture” with “mixture class and grade” in the last sentence.

Page 391, 306-5:

Replace “7-8.6.4” with “3-12.6.4” in the last sentence of the first paragraph.

Page 396, 306-7.3.2.1:

Replace “201-1.5” with “201-5” in the last sentence of the first paragraph.

Page 401, Table 306-7.7.3:

Replace “306-7.8.2” with “306-7.8.2” with “306-7.8.3” as the test standard reference for barrel deflection.

Delete “Joint Offset Tolerance” and “306-1.2.2.”

Replace “306-8.2” with “306-7.8.2.”

Page 402, 306-7.8.2.1:

Delete “f)” and “g).”

Page 408, 306-7.8.3.3:

Replace “2-5.3” with “3-8” in the first sentence.

Page 426, 306-8.9.6:

Replace “described” with “specified” in the second sentence of the fourth paragraph.

Page 481, 402-1.2:

Replace “306-12” with “306-12.” in the second sentence of the last paragraph.

Page 486:

Replace “404.9” with “404-9.”

Replace “404-11 PAYMENT” with “404-12 PAYMENT.”

Page 505, 500-5.10.3, a) General:

Replace “may” with “shall” in the second sentence.

Page 513, 500-7.1:

Delete the last sentence.

Page 515, 501-1:

Replace “(HC)” with “house connection at the end of the first sentence of the second paragraph.

Delete the second sentence of the second paragraph.

Page 525, 601-1:

Insert “maintenance” before “work” in the first sentence of the first paragraph.

Page 525, 601-2:

Insert “prepare and” before “submit” in the first paragraph.

Page 528, 601-3.6.5:

Add “and End Treatments” to the subsection heading.

PUBLIC WORKS STANDARDS, INC. - GREENBOOK COMMITTEE
CHANGE SUBMITTAL LOG
LATEST REVISION:9-20-2018

NO.	SECTION	DATE REC'D	SUBJECT	SUBMITTED BY	SUBCOMMITTEE ACTION			EDITORIAL STANDARDS REVIEW		JOINT COMMITTEE ACTION			
					ASSIGNED TO	ACTION		DATE	DATE SUBMITTED	DATE RETURNED	ACTION		DATE EDITION
						A	R				A	R	
164NS	301-3	11/17/05	Portland Cement Treated Mixtures	Jeffrey Wykoff Cemex	NM&M-S	X		3/4/14	3/12/14	6/19/14	X		7/17/14 2015
175NS	215 & 313	10/19/06	Work Area Traffic Control Installation	Jerry Ellison	NM&M-S Specs	X		3/13/07 4/14/10	4/15/10	7/15/15	X		8/20/15 2016
200GP	ALL	2/19/09	Proprietary Products Footnote	Dan Peterson	MAIN	X					X		3/19/09 2012
217NS	300-4.4	2/18/10	Benching	City of San Diego	NM&M-S	X		2/18/14	2/19/14	4/30/14	X		6/19/14 2015
223NU	306	6/29/10	306 Update	Curt Gilley	NM&M-U			7/15/14	7/16/14	9/17/14	X		10/16/14 2015
225NS	301-4	9/16/10	Lime Stabilized Base	Jim O'Kane	NM&M-S			10/13/15	10/13/15	10/14/15			
235NS	201-2	8/18/11	Fiber Reinforced Concrete	Malcolm Smith Bekaert	NM&M-S	X		3/18/14	3/20/14	4/30/14			6/19/14 2015
236GP	500-1.1.5	8/18/11	Revise CCTV	Tim Regello City of Vista	Specs								
239GP	5-1	10/20/11	Gov Code Update	Nelson Nelson	Specs	X		5/16/12	6/20/12	1/15/14	X		3/20/14 2015
241NU	308-5.6.2	11/17/11	Pressure Testing	Dan Peterson	NM&M-U				9/18/13		X		10/17/13 2014

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						A	R				A	R	
242NU	Various-207, 208 &306	1/19/12	Water Pipeline Construction	Dennis Phinney Psomas	NM&M-U	X		5/13/14	7/15/14	7/16/14	X		8/21/14 2015
244NS	201-1.6, 303-8	10/18/12	Pervious Concrete	Concrete Ad Hoc Group	NM&M-S	X		5/13/14	5/13/14	5/14/14	X		6/19/14 2015
245GP	2-5.3	10/18/12	Installation Instructions	Dennis Phinney Psomas	Specs	X		11/14/12	11/15/12	4/17/13			7/18/13 2014
246NS			Alkali-Silica reactions testing	Concrete Ad Hoc Group									
247GP	4-1.9	3/21/13	Const. Materials Dispute Resolution	Specs Subcomm.	Specs	X		3/20/13	4/17/13	5/15/13	X		8/15/13 2014
248GP	9-1	3/21/13	Measurement & Payment	Specs Subcomm.	Specs	X		9/17/14	9/18/14				
249NS	203-6		Asphalt Concrete	Asphalt Task Force	NM&M-S	X		5/13/14	5/13/14	6/18/14	X		7/17/14 2015
250NS	212	3/13/13	Landscape and irrigation materials	Nabil Batta City of San Diego	NM&M-S		X	7/17/13					
251NS	308	3/13/13	Landscape and irrigation installation	Nabil Batta City of San Diego	NM&M-S		X	7/17/13					
252NS	200-1	5/13/13	Rock Products add ASTM test method	Ken Sears	NM&M-U Conc AD HOC	X		6/18/13	6/18/13	6/19/13		X	7/18/13 2014

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						A	R				A	R	
253NS	203-1.2(A) 203-1.4(A) 203-1.6(A)	7/11/13	Add PG-M spec to tables	Jon Schauble City of Carlsbad	NM&M S	X		10/13/15	10/13/15	10/14/15	X		1/20/16 2016
254S	2-7	7/18/13	Modify verbiage re: groundwater elevation	Nelson Nelson City of Corona	Specs	X		7/17/13	9/16/14	7/15/15	X		8/20/15 2016
255S	4-1.6	7/18/13	Restate "adequate time" in section	Nelson Nelson City of Corona	Specs	X		7/17/13	9/16/14	2/18/15	X		8/20/15 2016
256S	5-5, 6-6	8/15/13	Editorial Changes to Sections	Nelson Nelson City of Corona	Specs			8/14/13	9/16/14	9/16/15	X		10/15/15 2016
257NS	200-1, 203-12	11/19/13	Revise screenings gradations, other editorial	Erik Updyke Los Angeles County	NMS	X		5/13/14	5/13/14	5/14/14	X		6/19/14 2015
258ES	209, 307		Move to Part 7, "Street Lighting and Traffic Signal Systems"	Editorial Standards	ESS	X		1/15/13	1/15/13	2/19/14	X		4/16/14 2015
259ES	212, 308		Move to Part 8, "Landscaping and Irrigation"	Editorial Standards	ESS	X		11/20/13	9/18/13	11/20/13	X		1/16/14 2015
260ES	306-2, 306-3		Move to 307, "Jacking and Tunneling"	Editorial Standards, NMU	ESS	X		11/20/13	11/20/13	11/20/13	X		3/20/14 2015
261ES	306-8		Move to 308, "Microtunneling"	Editorial Standards, NMU	ESS	X		11/20/13	9/18/13	11/20/13	X		1/16/14 2015

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						A	R				A	R	
262NS	300-1		Removal of Existing Improvements	NMS, 300-1 Task Force	NM&MS					9/16/15	X		10/15/15 2016
263NS	302-2	11/19/13	Chip Seal Revisions	Erik Updyke Los Angeles County	NM&MS	X		5/13/14	5/13/14	6/18/14		X	7/17/14 2015
264ES	7-10.2		Move to Part 6, "Temporary Traffic Control"	Editorial Standards	ESS	X		4/30/14	11/20/13	4/30/14	X		6/19/14 2015
265S	7-2	9/19/13	Labor	Nelson Nelson	Specs	X		9/18/13	9/16/14	7/15/15	X		9/17/15 2016
266NU	203-3		Polypropylene Pipe	San Diego County	NM&MU	X		2/17/14		8/15/15	X		9/17/15 2016
267S	203-3	11/19/13	Add polymer modified emulsion	Erik Updyke Los Angeles County	NM&MS	X		3/14/17	3/14/17	3/15/17	X		5/18/17 2018
268NS	204-2	4/17/14	Treatment with preservatives	Erik Updyke Los Angeles County	NM&MS	X		5/13/14	5/13/14	5/14/14	X		6/19/14 2015
269NS	Various	9/9/13	Changes to terms 'Cement' and 'Portland Cement'	Ken Sears Portland Cement Assoc.	NM&MS	X		4/18/14	6/21/14	10/15/14	X		11/20/14 2015
270NS	201-1	6/13/14	Shrinkage compensating cement	Concrete Ad Hoc Group	NM&MS								
271NS	304-2.2	6/23/14	Flexible Metal Guard Rail	New Materials and Methods	NM&MS	X		6/17/14	6/23/14	8/20/14	X		9/18/14 2015

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272NS	300-11	7/17/14	RIP RAP	New Materials and Methods	NM&MS								
273P	SP 100-2, 600-4	8/13/15	Provide additional details to subject plans	Temo Galvez	Standard Plans	X		8/7/15					
274NS	500-3	5/15/15	Annular space grouting		NM&M								
275U	300-1, 300-11	6/25/15	Reinforced Concrete Box	NMU	NM&M	X		5/18/17	5/18/17	6/14/17	X	7/20/17 2018	
276NS	400	7/13/15	Delete Part 4	Conc Ad Hoc	NM&M	X		8/18/15	8/19/15	8/19/15	X	9/17/15 2016	
277G	Part 1	10/14/15	Update Part 1	Gp/ess	GP	X		6/17/17	6/17/17	8/16/17	X	9/21/17 2018	
278U	207-20	6/16/16	FRPM Pipe Tolerance	LACSD	UMM	X		11/15/17	11/16/17	11/16/17	X	1/19/17 2018	
279S	302-3	4/16/15	Microsurfacing	Asphalt task force	SMM	X		3/14/17	3/14/17	3/15/17	X	5/18/17 2018	
280S	202	8/8/16	Mortar Cement	Conc Ad HOC	MMS					7/19/17	X	8/17/17 2018	
281E	Part 4	3/17/16	Create new Part 4, "Existing Improvements"	Editorial Standards	ESS/SM M	X		3/14/17	3/14/17	6/14/17	X	7/20/17 2018	
282S	302-5	12/1/16	Update cold milling, add micromilling	Erik Updyke, Los Angeles County	SMM					7/19/17	X	8/17/17 2018	
283U	217	8/3/15	Edit and revise 217	Underground M & M	UMM	X		6/13/17	6/14/17	6/14/17	X	7/20/17 2018	
284U	Part 5		Revise, update, and edit Part 5	Underground M & M	UMM					7/19/17	X	8/17/17 2018	

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285SM	200	11/10/16	Add permeable aggregate gradations	Concrete Ad Hoc	SMM								
286SM	201-1.2.5.4	11/10/16	Update requirements for Special Exposure	Concrete Ad Hoc	SMM								
287SM	203-16, 301-7		Add Engineered Emulsion – Stabilized Pulverized Base	Stabilized Base Task Force	SMM			On hold pending Agency trials/usage					
288SP	100-2	11/29/16	Abbreviations, lines, and symbols	Alex Salazar Fountain Valley	Standard Plans								
289UM	215	02/23/17	manholes	Curt Gilley	UMM						X	7/20/17 2018	
290UM	306-2,3	3/14/17	Jacking/tunneling	Curt Gilley	UMM	X		6/13/17	6/14/17	6/14/17			
291SP	101-2	12/5/17	Above Ground Utilities	Alex Salazar	Standard Plans								
292SP	120-2	12/5/17	Curb and Gutter Barrier	Alex Salazar	Standard Plans								
293SP	121-2	12/5/17	Curb and Gutter mountable	Alex Salazar	Standard Plans								
294SP	130-2	12/5/17	Alley Intersection	Alex Salazar	Standard Plans								
295SP	131-2	12/5/17	Concrete Bus Pad	Alex Salazar	Standard Plans								
296SP	133-3	12/5/17	Asphalt Concrete Pavement Replacement	Alex Salazar	Standard Plans								

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297SP	134-2	12/5/17	Concrete Pavement Joint Details	Alex Salazar									
298SP	Std plans part 2	9/20/18	All Changes for part 2 std plans		Standard Plans								
299													