



STRATEGIC PLANNING SESSION Memorandum of Meeting

8:30 A.M. to 10:00 A.M. PST, Monday, June 20th, 2022
Fairmont Empress Hotel, Victoria BC

Present:

Jason Sherwood, Chair	Atlantic	Scott MacRae	Armtec
Terry Dunn	Atlantic	Bruce Matheson	Frontier
Paul Proctor	Atlantic	Mike Williamson	Hubb-Cap
Greg Wilkinson	Atlantic	David Newbigging	AMD
Phil Carrol	Atlantic	Derek Niezen	Ironside
Stuart Murphy	Atlantic	Dave Watson	Leland
Sam Mitra	Armtec	Mike Mounts	Valgroup
Liz Bouchard	Armtec	Kamran Derayah	AMD
Roger Leger	Armtec	Ray Wilcock	CSPI

1. AISI Antitrust Guidelines - Jason

Jason presented the AISI Antitrust Guidelines that are in effect for all CSPI meetings.

2. Welcome and Opening Remarks – Jason

Jason opened the meeting and welcomed all members. Attendance was taken and is recorded above.

3. Review Minutes from November 18th, 2021, and Approve

Minutes were reviewed and accepted. A motion for approval was made by **Bruce Matheson**, second by **Scott MacRae** and was carried unanimously.

4. Strategic Plan Overview

a) Market focus – DOT, key municipalities & consultants

No discussion.

b) Educate colleges and university students

No discussion

c) Review top 10 reasons – why steel?

Discussion:

- | | |
|-----------|--|
| Reason 1 | LEED – <u>“Leadership in Energy and Environmental Design”</u> – more for buildings / architectural, however may take on more focus in the future (storm sewers).
Add Carbon Footprint Calculator |
| Reason 5 | Design Thickness may lead to misrepresentation. Add “*” to Title after (DSL).” *Other thicknesses available for distinctive design considerations. |
| Reason 6 | Delete \$500,000. Add “Environmental Footprint” with arrows. |
| Reason 7 | Change to lower case available and use bullets
Add – lower carbon footprint
Add – Optimize with non-specialized labour |
| Reason 8 | Use bullet points. Add to talking notes about forest fires, seismic forces |
| Reason 9 | Use bullet points. Add “Adaptable to transition to other materials” |
| Reason 10 | Change dates. Change Photos for Bridges. Change “weeks” to “months” for Bridges. |

5. Key Performance Indicators (KPI)

a) **DOT update**

- | | |
|-------------------|--|
| <u>NL</u> | Interested in Technical Bulletins on Fasteners (NZF3000) and Geomembranes over buried structures for project specifications. Latest update in standards – March 2022. Review standards for changes. |
| <u>PEI</u> | Recommendations sent for section 1338 – Corrugated Metal Structures. Inclusion of polymer coated plate, NZF3000 bolts and edits on reference standards and installation. |
| <u>NB</u> | Ahmed Dassouki, Director – Design Branch – contacted CSPI following the SWM webinar to ensure all NB staff are included in future updates. Meeting to be scheduled in the fall to discuss standards and updates to G401. |
| <u>NS</u> | Improvements made towards accepting steel in contracts. Great progress made from education, presentations, and relationships. Cost of structures has been a crucial factor. |

- MTQ** Drafted recommendations for Tome III – polymer 75 years-service life. Translation of polymer technical bulletin in French completed for member and ministry use.
- MTO** Met with Walter Kenedi, new Chief Bridge Engineer. Agreed to start with review of Culvert & Structural Plate Planning guidelines and make recommendations in later this year.
- MIT** Recommendations submitted to Danielle Salem who took over for Ruth Eden. Future meeting to be set up later this year.
- SK** Nothing to report since last meeting in November 2021.
- AT** Accepted CSPI recommendation on section 18 “*Minimum Invert Length of Sloped End Section*”. Members will be able to use the email from AT for clarification until the standard gets updated in 2025.
- Contacted CSPI about the Hannaford baffle system following the webinar held on May 10th.
- BCMOT** Meeting scheduled in Victoria on June 21st to discuss proprietary structures and updates to CSA G401. Phil Carroll to lead.
- NWT, YK, NU** To be reviewed later this year.

Galvalume discussion It was agreed to introduce the material (1.6 and 2.0 mm) to DOTs for future consideration in standards. Start in the Eastern provinces.

Include the following and discuss at a future PPC meeting.

Add a National List of Federal departments for future contacts / discussion. Department of National Defense, DFO, Public Works

Add Railways (CP, CN)

DOT Table

Owner	Gal. CSP	AL2 CSP	PL CSP	Gal. SP	TP SP	HDPE	RCP	Certification	Value Eng.
NL	No	Yes	YES	Yes	YES	<600mm	Yes	YES	Yes
PEI	Yes	YES	No	YES	No	Yes	Yes	Submitted	No
NS	Yes	Yes	No	Yes	YES	Yes	Yes	Submitted	Yes
NB	No	Yes	No	Yes	No	Yes	Yes	Submitted	Yes
QC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes – CSP	Yes
ON	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

MB	Yes	No	No	Yes	No	?	Yes	No	Yes
SK	Yes	YES	YES	Yes	YES	Yes	Yes	Yes	Yes
AB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NT									
YT									
NU									

b) Municipality & Consultant Update

Following Municipalities / DOT's attended one or more of the four webinars held this year. Links to YouTube recordings sent and contacts sent to members for follow up.

NL DOT

NB DOT

New Maryland

NS DOT

Halifax

ON

Bayham
Blandford-Blenheim
Burkfalls
Dawn Euphemia Township
DOT
Durham
East Hawkesbury Township
Guelph
Haldimand County
Hamilton
Hearst
Huntsville
Huron East
Huron Shores Municipality
Innisfil
Kawartha Lakes
Kingston
Kirkland Lake
Lambton

London
New Tecumseth
Nipigon
North Dundas
Northern Bruce
Ottawa
Parry Sound
Pembroke
Petawawa
Peterborough
Port Hope
Richmond Hill
St. Catharines
Sudbury
Township Adjala-Tosorontio
Township of Wainfleet
Whitby
Windsor
York Region

MB DOT

AB

AT
Calgary
Red Deer County

Municipality of Wood Buffalo
Town of Sylvan Lake

BC	BCMOT Capital Regional District Colwood Coquitlam	District of Sparwood Ladysmith Nanaimo Smithers
YK	Whitehorse	

Following Consultants attended one or more of the four webinars held this year. Links to YouTube recordings sent and contacts sent to members for follow up.

NL	Harris & Associates	Nova Consultants
NB	Stantec Consultants	Roy Consultants
ON	ARUP Consultants Becker Engineering Group BM Ross & Associates CIMA Engineering GM Blue Plan Engineering Golder Consultants GPEC International	HRYCAY Consultants JL Richards IBI Group Quartek Group RJ Burnside Engineering RV Anderson WSP Consultants
MB	Aecom Consultants	Pier Solutions
SK	AE Consultants Golder Consultants	WSP Consultants
AB	Jacobs Engineering MPA Engineering Paradox Solutions	RJC Engineers Stantec Consultants WSP Consultants
BC	Aplin & Martin Engineers Core Group Consultants Fraser Valley Engineering Herold Engineering Koers & Associates	Mainland Engineering Onsite Engineering Vast Resource Solutions WSP Consultants

January

ISL AB Discussed invert repair methods / full relines for Hwy 19 deep ravine culvert repair. Interested in polymer coated structural plate invert method.

February

MEA ON Updated related standards to CSP (CSA, ASTM, etc.)

WSP AB Contacted CSPI concerning Plant Certification Technical Bulletins. Contractor attempted to bring in CSP USA made from a non-certified manufacturer. Resolved in favour.

March

ISL AB Contacted CSPI concerning repair methods for damage to newly installed galvanized CSP.

R.V. Anderson ON Contacted CSPI with regards to identifying corrugation profile for a galvanized structural plate installed in 1965 in Thorold ON. Pipe is in exceptionally good condition.

Vern Lange BC Contacted CSPI for BC member information.

May

Klohn Crippen Berger BC Supplied information on an old CSPI standard 501, previously used before CSA G401. Rehab Opportunity.

Municipalities Table

Municipality	Gal. CSP	AL2 CSP	PL CSP	HDPE/ PVC	RCP	Value Eng.
Vancouver Storm Sewer Culverts	No No	No No	No No	? ?	Yes Yes	
Langley	Follow Van					
Victoria						
Edmonton Storm Sewer Culverts	No Yes	No No	No No	PVC PVC	Yes Yes	
Calgary Storm Sewer* Culverts	Yes Yes	Yes No	Yes No	PVC & PE App. Req.	Yes No	
Saskatoon						
Regina Storm Sewer Culverts	No Yes	No Yes	No Yes	PVC<450mm HDPE	? Yes	
Winnipeg	Pending	No	No	PVC<900mm	Yes	
Thunder Bay Storm Sewer Culverts	No No	No Yes	No No	PVC<375mm HDP<900mm	Yes No	
Sudbury						
Toronto Storm Sewer Culvert	No	No	No	PVC	Yes	
Hamilton Storm Sewer Culvert	No Yes	No Yes	No Yes	PVC HDPE	Yes Yes	
London	No	No	No	Yes	Yes	
Windsor Storm Sewer Culverts	Yes No	Yes No	Yes No	Yes PVC & PE	Yes Yes	
Reg. Waterloo						

Storm Sewer Culverts	No No	No No	No No	PVC Yes<600mm	Yes Yes	
St. Catharines Storm Sewer Culverts	No Yes	No Yes	No Yes	Yes Yes	Yes Yes	
Kingston	No	No	No	PVC	Yes	
Ottawa						
Oshawa						
Montreal						
Sherbrooke						
Quebec City						
Trois- Rivieres						
Saguenay						
Fredericton Storm Sewer Culverts	No No	No No	No No	Yes No	Yes Yes	
Moncton						
Halifax Storm Sewer Culverts	No No	No No	No No	Yes HDPE/PE	Yes Yes	
St. Johns	No	No	No	Yes	Yes	

* Mains only, requires approval from Water Resources on a case-by-case basis

c) Number of Students/Institutions presented in last 12 months

<u>Date</u>	<u>University / College</u>	<u># of Students</u>
Jul 26 th	SAIT College, Calgary AB	13
Oct 7 th	Ryerson University Toronto ON	150
Oct 14 th	Western University London ON	65
Oct 29 th	Queen's University Kingston ON	10
Nov 24 th	OGRA Storm Sewer Mississauga ON	42
Jan 19 th	Lakehead University, Thunder Bay	14
Jan 26 th	York University, Toronto	63
Feb 8 th	Niagara College, Niagara Falls	25
Mar 10 th	RMC, Kingston ON	20
Mar 21 st	Sask Polytech SK	25
Mar 23 rd	U of Sask SK	50
Apr 4 th	U of Victoria BC	40
Apr 5 th	U of Guelph ON	25

Special thanks to Lisa Ryland (Armtec) and Phil Carrol (Atlantic) for lecturing at U of Sask & U of Victoria, respectfully.

13 Guest Lectures

542 Students

6. Assessment

a. Feedback from DOT's & Municipalities

Note – red reflects changes since last meeting.

<u>DOT</u>	<u>Date</u>	<u>Comments</u>
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PEI	Feb 2022	Recommendations sent for section 1338 – Corrugated Metal Structures. Inclusion of polymer coated plate, NZF3000 bolts and a few edits on reference standards and installation.
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BC	Apr 2022	Meeting scheduled in Victoria on June 21 st to discuss proprietary structures and updates to CSA G401. Phil Carroll to lead.

Municipality Feedback

<u>Municipality</u>	<u>Date</u>	<u>Comments</u>
St. John's NL	Mar 2020	<i>"Our position at this time on CSP is that we will use structural plate for structures but have not moved towards using it for storm sewers or culverts."</i>
Halifax NS	Sep 2019	Refused our application (not interested). Subsequent follow ups have received zero attention. Sent letter to Mayor – heard from G.M. Evasive and dismissive and quite rude.
Fredericton NB	Mar 2020	Met with Jody Boone on Mar 11 th . Documents sent on March 22 nd . Follow up cancelled due to COVID.
Hamilton ON	Oct 2021	Received an approval for spiral rib pipe (aluminized and polymer laminated) for culvert installations. Response to disallowing spiral rib into storm sewer standards is unacceptable. SWAT team to review submission and respond.
Barrie ON	Oct 2021	Target Engineering dept with virtual presentation later this year as they are considering starting a new stormwater climate action fund.
Kingston ON	Jul 2020	Product application sent. No response to date.
Windsor ON	Dec 2019	Application sent along with backup documents. Follow ups have received no feedback. Elevate.
London ON	Dec 2019	Application sent along with backup documents. Informed that committee has not met yet. Followed up with Jane Fullick who passed it on to Marcus Schaum. Waiting to hear back. F/U.
St. Catharines ON	Dec 2019	Application sent along with backup documents. No response from Dan Dillon who retired. Contacted replacement, Anthony Martuccio. Waiting for response. F/U.
Thunder Bay ON	Jul 2020	Storm sewer presentation to Rick Harms and staff. AIL & Armtec attended. Will f/u.
Waterloo Region ON	Aug 2019	Storm sewer presentation to the committee on May 14 th . Received email on Aug 30 th that our application had been denied. Sent email to William Kinnaird requesting a reason for their decision. Will be discussed in PPC/TAC meetings.

<u>Municipality</u>	<u>Date</u>	<u>Comments</u>
Welland ON	Aug2020	Storm sewer presentation to Marvin Ingebrigsten and staff. AIL & AMD attended. Well, received. Suggested trial runs. Members to f/u.
Winnipeg MB	Jul 2020	Application and documents mailed on Dec 21 st , 2018. Spoke with Tyler Phillips in Dec 2019, the committee has yet to review our application. Will follow up in 2021.
Calgary AB	Feb 2021	City confirmed that CETA has had no impact on product approvals at this time. (Canadian / European Trade Agreement).
Vancouver BC	Mar 2020	Met with Dane Doleman on Mar 29 th . Standards are in disarray and are being consolidated. He asked if we would wait until published. Will follow up in 2021.

b) Storm sewer market issues – SWAT Team Feedback

- Objective: Develop a strategy to penetrate municipal storm sewer market.
- 17 Members on the Team
- 6 Meetings held in the last 12 months

Ideas / Future action items

1. Target municipal associations and educate via webinars, E-Blasts and in person presentations.
2. Significant campaign which may include elected officials. Political campaign targeted to cost savings and carbon footprint. Seek AMD's help.
3. Achieve a 10.8 psi watertight joint – MarMac currently testing SRP non-rerolled ends
4. Case studies – Highlight one-page snapshots of polymer projects. (CSP & SRP)
5. Urban – polymer laminated only.
6. Promote the Handbook and downloading capabilities
7. Set up webinars for Quebec in French for later this year (SRP, Carbon Footprint). Work with Tony Tekly (Armtec) and Stephan Martineau (AIL).

No new discussion.

c) Academic Education feedback

Future idea to be discussed – “Scholarship for taking steel course within curriculum”.

7. Discussion / New Business / Old Business

Kamran – “Steligen department.” Considered a repeat to what we have already accomplished. Remove for next meeting.

8. Strategic Plan Adjustments

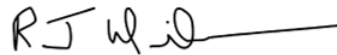
None. All agreed to stay the course.

9. Adjourn & Next Meeting

The meeting was adjourned at **10:27 am** with a motion from **Paul Proctor**, second by **Mike Williamson** and was carried unanimously. The next meeting will be held in November 2022 Kitchener ON, dates, and place to be determined.



Jason Sherwood
Chair



Ray Wilcock
Executive Director