



STRATEGIC PLANNING SESSION Memorandum of Meeting

8:30 A.M. to 10:00 A.M. EST, Wednesday, November 6th, 2024
Delta Hotel by Marriott, Waterloo, ON

Present:

Sam Mitra, Chair	Armtec	Mike Williamson	Hubb-Cap
Liz Bouchard	Armtec	Marcia Stinson	AMD
Scott MacRae	Armtec	Lucas Cooper	AMD
Roger Leger	Armtec	Kamran Derayeh	AMD
Darren Bauman	Armtec	Dave Watson	Leland
Rodrigo Silva	Armtec	Jonathon Paton	Warner
Terry Dunn	Atlantic	Colin Rojahn	Cliffs
Paul Proctor	Atlantic	Mitchell Swisher	Cliffs
Matt Field	Atlantic	Todd Gray	ACI
Pat Mayne	Atlantic	Mike Mounts	Valgroup
Bruce Matheson	Frontier	Richard Northcutt	MarMac
Ian Kalverda	Hubb-Cap	Ray Wilcock	CSPI

1. Canadian Competition Act - Ray

Ray presented the Canadian Competition Act Guidelines for associations (Competition Act RSC, 1985, c. C-34) that are in effect for all CSPI meetings.

Action: Logos on the website for Hubb-Cap and Roundel require updating. This will be completed before the year end.

2. Welcome and Opening Remarks – Sam

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

3. Review Minutes from June 17th, 2024, and Approve

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

4. Strategic Plan Vision / Mission 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?

Top 10 reviewed.

Reason 1 Durability

Action: Add hardness

Reason 2 Light Weight

Action: Add “Storm Sewer” to title

Add “Storm Sewer” after Mannings n

Cut the bulkhead from the steel Photo or replace with Canadian one

Reason 4 Sustainability

Action: Send to all members the Leeds 7 points slide

Reason 7 Convenient

Action: Replace “Convenient” with “Efficiency” or “Economics in Transportation”

Reason 8 Resilience

Action: Remove “Flooring & sheet piling”

Crane: 50 – 75 tons

Rail Car: 150 tons

Reason 9 Extendable

Action: Look at alternative photos

Reason 10 Accelerated Schedule

Action: Last photo, replace with “weeks versus months”

Touch base with MTO to see if they have recently inspected the 401/403/410 reline

5. Key Performance Indicators (KPI)

a) DOT update

Presentation covered: Buried bridges, CSA G401-24, G90 & 5 mil polymer, watertight coupler demonstration, NZF3000 bolts, coatings and durability – 100 years? sustainability (carbon footprint) present and future, water testing demonstration, discuss DOT challenges, issues, needs.

NL **November 23rd in St. John's** – 8 DOT & 4 members.

1. Requested information on polymer laminated coatings and life expectancy in differing hard / soft water conditions. Supplied technical bulletin #1.

2. Inquired about polymer coating galvanized structural plate as site conditions warranted polymer. Information given after consultation with Warner.

- PEI** **December 8th in Charlottetown** - 3 DOT & 2 members.
1. Darrel Evans reached out for comment on their standards concerning matching bolt life to structural plate coating life.
 2. DOT accepted zinc flake coated bolts required when polymer coated plate is specified.
- NB** **December 4th in Fredericton** - 6 DOT & 3 members.
1. A few polymer sites from 1970 were brought up by DOT to be visited in 2025.
- NS** **Winter of 2025**
- QC** **August 15th virtual meeting** - 6 MTQ & 3 members.
1. Recommendations were made for (Standard) Tome III and discussed. Next step, both Armtec and Atlantic provided standard drawings for profiles 68 x 13 and 125 x 25.
 2. The minimum height of covers became an issue and will be addressed. In Quebec it is 600mm versus 300mm in our handbook.
- ON** **Mar 26th in Thunder Bay** – 6 MTO & 3 members.
1. Requested information on microbial corrosion. After consulting with AMD & Cliffs, sent information.
- Apr 10th in Toronto** – 14 MTO & 4 members.
1. Connecting CSP to concrete manholes. Sent information.
- Apr 12th in London** – 11 MTO & 4 members.
1. Interested in a follow up presentation on rehabilitation.
- Apr 17th in St. Catharines** – 12 MTO & 3 members.
1. Develop an OPSS on structural plate bridge package covering design, material, fabrication, and construction. The team will consist of MTO, CSPI, Armtec & Atlantic. Meetings to start this summer once the draft is complete.
- August**
1. Discussed with MTO the requirements for OPSS standard Structural Plate package. [Atlantic & Armtec to exchange standard drawings for delivery to MTO.](#)
- Apr 22nd in North Bay** – 13 MTO & 2 members.
1. Different methods used to reline inverts only.
 2. Methods used on structural plate to counter act Abrasion level 4.
 3. Would like CSPI to investigate the use of placing two plates on top of each other for invert protection.
- Apr 23rd in Kingston** - 12 MTO & 3 members.
1. Very interested in the Structural Plate package.
 2. Future webinars.
 3. Certification for the PEAK program.

MB **Winter of 2025.**

SK **Feb 28th in Saskatoon** - 12 DOT & 1 member.

Dealt with SK issues:

1. Pipe staining on the obverts
2. Using flange nestable pipe as end stiffeners (SK agreed with CSPI not to use).
3. Durability charts in Technical Bulletin 1.
- 4) SK asked CSPI to canvas other provinces that may have published deformation %'s of pipe that constitutes a failure. Will follow up with other provinces as meetings take place. [Complete](#)

Aug 8th

[Provided information on structure deformation ratings using the AT Bridge Inspection Manual.](#)

AB **Mar 13th in Edmonton** – 4 DOT & 3 members.

AT issues / questions include:

1. Markings on Leland bolts.
2. MarMac coupler tests in cold climates.
3. Structural Plate package for standard buried bridge crossings.

August

[An issue surfaced with regards to the new CSA G401-24 Table 2 Mechanical Properties requirements for CSP. CSPI reached out to AT for clarification and to ask for a grace period and received a refusal.](#)

[Although not to our satisfaction, discussion took place and solutions for post mill certs are available. In addition, G401 was updated to clarify when mill testing will take place.](#)

BC **Mar 19th in Coquitlam** – 6 DOT & 3 members.

BC issues / questions include:

1. Interested in CSP EPD's.
2. Policy on deformation % for rehabilitation.
3. Would like a ½ day seminar on design for Ministry, consultants, and inspection.

[Members are interested and will participate. Reach out to Ministry for planning in the 1st Q of 2025.](#)

September

[CSPI reached out to ministry contacts pertaining to a tender that was awarded to a company by the name of Westcor who were not on the approved products list nor are CSA certified. This tender was subsequently cancelled and will be awarded to CSPI members.](#)

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	No	Yes	YES	Yes	Yes	Yes	Yes	Submitted	No
NS	No	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

Municipality Update

2023 presentation covered CSPI, why steel, spiral rib storm sewers, CSA G401-24, G90 & 5 mil polymer, watertight coupler demonstration, coatings, and durability – 100 years, sustainability (carbon footprint) present and future, water testing demonstration, discuss City challenges, issues, needs.

Nov 23rd

St. John's NL

6 City & 3 members

1. Good discussion on spiral rib storm sewers, coatings and 75-year service life.

Dec 6th

Moncton NB

18 City & 4 members

1. Positive discussion on spiral rib storm sewers, coatings and 75-year service life. Members to follow up.

Feb 28th

Saskatoon SK

SPWA - 65 in attendance

Presented "Storm Sewers – Spiral Rib Pipe" at their annual conference.

Mar 11th

Edmonton AB

CEA – 100 in attendance

Presented “Rehabilitation of Buried Bridges, Culverts & Storm Sewers” at their annual conference.

Mar 14th

Edmonton AB 4 City & 2 members
1. The city stated they prefer steel over concrete.
City issues:
1) Technical Bulletin 1 and selection of coating
2) polymer repair technical bulletin.

Mar 25th

Thunder Bay ON 6 City & 2 members
No issues brought up.

Apr 1st

Region of Waterloo ON
Supplied information on relining and use of grout.

Jun 18th

City of Calgary AB 8 City & 1 member
[Calgary provided their standards and CSPI responded with comments on July 24th.](#)

Consultant Update

January

WSP ON Material coating requirements.
FNX-INNOV Rehabilitation.

February

Dillon Consulting Durability.
AECOM ON Durability.

March

ISL Engineering Met with Martin Maier on March 11th in Edmonton to discuss a structural plate package for AT transportation. They are keen to participate with CSPI and AT.

McElhanney Brief visit on March 12th to their Edmonton office to discuss rehabilitation and our Handbook.

May

Trilith Contracting Reached out for information on culvert design and pricing.

July

ISL Engineering [Reached out to set up a meeting with Alberta Transportation to discuss a structural plate buried bridge package. Date TBD.](#)

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>
Nov 21 st	University of Western, London ON	65
Feb 9 th	McGill University, Montreal QC	25
Feb 26 th	University Regina, Regina SK	20
Feb 28 th	University of Saskatchewan, Saskatoon SK	80
Feb 29 th	Toronto Metropolitan University, ON	20
Mar 12 th	Toronto Metropolitan (rehab presentation)	25
Mar 15 th	University of British Columbia	120
Mar 18 th	Okanagan College Kelowna BC	20
Mar 26 th	Lakehead University, T Bay ON	30
Mar 28 th	Niagara College, ON	25
Apr 8 th	University of Windsor ON	45

11 Guest Lectures 475 Students

Action: Simon Fraser University (En^v) – Jason Sherwood to supply contact details.

6. SWAT Team Initiative – Storm Sewer Market

- Objective: Develop a strategy to penetrate municipal storm sewer market.
- 17 Members on the Team
- 4 Meetings held in 2024

Las meeting – July 11th

5 Key results in 2024:

1. Presentation to the City of Moncton NB

2. Speaking at the Saskatchewan Public Works Association
3. Speaking at the Consulting Engineers Association of Alberta
4. Member participation at municipal presentations
5. MarMac coupler webinar – water-tight joints.

Future:

1. Communicate to members on CSPI schedule for presentations, city visits, etc.
2. Webinar on Storm Sewers & SWM for members only - sales staff. "How to break through the municipal market".
3. One page on new thinner polymer / thinner galvanized coating (Mike Mounts will advise). Available in CSA G401-24.
4. Future Webinars will be in house and will start in the fall.
5. Please send any provincial associations calling for speakers / papers.
6. Next meeting, discuss feedback from two cities (Edmonton & Moncton).
7. Feedback was provided by members attending today on whether to continue these meetings going forward. Is there value? It was agreed that regardless of whether we meet or not, the objectives of targeting the municipal market are driven by the strategic plan.

Discussion:

- Kamran suggested we look at AMD's "*Stellingence of Steel*" program. This will look at:
 - Case studies
 - Comparing RCP to CSP (cost, sustainability installation)
 - Where to target the market
 - Need a calculator
 - Survey our readers in the data base – 4 questions (to be discussed)
 - All agreed to move forward – Kamran to take the lead and report back

7. Discussion / New Business / Old Business

Old Business:

Membership Recruitment

- Reach out – potential candidates
- Manufacturers
- Producers
- Suppliers

- 2 potential members reached out:
 - Soleno
 - Worthington Industries
 - No commitment – like the benefits without \$

Discussion:

- Clarity of membership to ensure there is a fit

New Business:

NCSPA distributed a polymer report from Ohio and Montana and was discussed. Both Mike M and Todd stated that the report is somewhat biased and the assumptions that were made are not supported. A good example is the perceived holes caused by steel sparks when sawing the ends. Also, what appeared to be stains were not brushed with a pad nor the thickness of polymer was not measured. This report will be discussed on November 13th at the NCSPA fall meeting.

8. Strategic Plan Adjustments

- a) DOT visits & timing – should CSPI visit each DOT every year or every 2nd year with virtual in between.

It was suggested that Ontario, Quebec, BC and Alberta should be annually. The others maybe every other year. More discussions are required, and each case will be decided with member participation. There was also a suggestion to invite the DOT in for an hour to the annual meeting for a presentation and discussion (1 hour in length).

- b) Municipalities: refocus as per discussion in June

- Target smaller centers and municipalities
- Focus on associations; MEGA, SPWA, AORS, Good Roads, CEA
- Reset membership

- c) 5-year planning session to be discussed

It was agreed to remove this idea at this time.

9. Adjourn & Next Meeting – June 2025, St. John's NL TBD

The meeting was adjourned at **10:20 am** with a motion from **Roger Leger**, second by **Paul Proctor** and was carried unanimously. The next meeting will be held in June 2025, in St. John's NL TBD by end of the year.

Sam Mitra
Chair

Ray Wilcock
Executive Director