



**REQUEST FOR PROPOSAL  
MV 2025-16  
ENGINEERED DESIGN OF CROOKED SLIDE PARK CHUTE AND WALKWAY**

Please submit complete proposal using the attached forms, quoting the above proposal number and closing date, and forward before 3:00pm EST Wednesday October 29 2025 to:

The Corporation of the Township of Madawaska Valley  
PO Box 1000 85 Bay Street Barry's Bay ON K0J1B0  
Attn: Hannah Gutoskie, Manager of Recreation and Community Services

Submissions must be received in accordance with the attached RFP forms, Specifications, Instructions to Vendors, and Standard Terms and Conditions.

Opening of Proposals (open to the public):  
Wednesday October 29 @ 3:15 pm

Contact:  
Hannah Gutoskie  
Manager of Recreation and Community Services  
Box 1000 85 Bay St Barry's Bay ON K0J1B0  
613-756-2747 ext 220  
[recreation@madawaskavalley.ca](mailto:recreation@madawaskavalley.ca)

## 1. INSTRUCTIONS TO BIDDERS

### 1.1. GENERAL

The Township of Madawaska Valley, herein known as the Township, is inviting proposals from qualified firms to complete an engineered design of the walkway and chute of Crooked Slide Park in Combermere.

Key dates:

|                                 |                           |
|---------------------------------|---------------------------|
| Release of Request for Proposal | Tuesday October 7 2025    |
| Deadline for Inquiries          | Monday October 20 2025    |
| Request for Proposal Closes     | Wednesday October 29 2025 |
| Opening of Proposals            | Wednesday October 29 2025 |

### 1.2. SUBMISSION OF PROPOSALS

- 1.2.1. Bidders shall submit the following items duly completed as part of this proposal request: Form of Proposal (page 12)
- 1.2.2. Proposals are to be in a sealed envelope clearly marked RFT 2025-16 Engineered Design of Crooked Slide Park Chute and Walkway) and addressed to:  
Hannah Gutoskie  
Township of Madawaska Valley  
85 Bay Street, Barry's Bay ON K0J1B0
- 1.2.3. Proposals shall be received at the above address until 3:00pm local time on Wednesday October 29 2025.
- 1.2.4. Proposals received at 3:01pm or later will be deemed late and rejected.
- 1.2.5. The Township is not responsible for any Proposals received after the stated closing time and will not consider any such Proposals.
- 1.2.6. The Township will not be responsible for any lost Proposals or for those Proposals that are delivered to any location other than the submission address indicated above.
- 1.2.7. The onus remains solely on the Bidder to instruct couriers/delivery personnel to deliver Proposal submissions to the exact location specified. Bidders assume sole responsibility for late deliveries if these instructions are not strictly adhered to.
- 1.2.8. Faxed or emailed Proposals will not be accepted.

### 1.3. FORM OF PROPOSALS

- 1.3.1. All bids must be upon the blank Form of Proposal attached hereto and the bidder is required to fill all blanks.
- 1.3.2. If it becomes necessary to correct an error made on a Form of Proposal, such correction must be initialed by the person or persons signing the form.

- 1.3.3. The Form of Proposal shall be signed in ink by a designated signing officer of the bidding firm, with the ability to bind the company.

#### **1.4. TAXES, PERMITS, AND FEES**

All prices must be stated in Canadian funds. Prices quoted shall be the net prices inclusive of all associated costs i.e. equipment, material, applicable licenses/permits/plates, including transportation and delivery charges fully prepaid by the Bidder to any specified destination within Township of Madawaska Valley. HST shall be extra to bid prices.

#### **1.5. BID SECURITY**

Not required.

#### **1.6. ADDITIONAL ENCLOSURES WITH PROPOSAL**

Not required.

#### **1.7. IRREVOCABILITY OF OFFER**

The Bidder shall not revoke its offer until after the expiration of sixty (60) calendar days after the opening of the Proposal by the Township.

#### **1.8. COMPETITION INTENDED**

It is the Township's intent that this request for proposals permit competition. It shall be the Bidder's responsibility to advise the Manager of Recreation and Community Services in writing if any language, requirement, specification, etc. or any combination thereof, inadvertently restricts or limits the requirements stated in this request for proposals to a single source.

#### **1.9. INQUIRIES**

- 1.9.1. All inquiries during the proposal period shall be in writing only, and directed by email to Hannah Gutoskie, Manager of Recreation and Community Services: [recreation@madawaskavalley.ca](mailto:recreation@madawaskavalley.ca).
- 1.9.2. No other staff is to be contacted for clarification of any aspect of this request for proposals.
- 1.9.3. No verbal instructions or verbal information to Bidders will be binding on the Township.
- 1.9.4. Bidders are encouraged to submit their questions as soon as possible. The deadline for submitting inquiries is Monday October 20 2025. No questions will be accepted after this date.

#### **1.10. DISCREPANCIES AND OMISSIONS**

- 1.10.1. Any Bidder finding discrepancies or omissions in this document, or in doubt as to its intent, shall at once notify the Manager of Recreation and Community Services. If necessary, a written addendum will be issued.
- 1.10.2. Misinterpretations of any requirement of the contract documents will not be considered a release of responsibility to complete the work as indicated. If in doubt about intent of documents, contact the Manager of Recreation and Community Services before closing; if necessary, an addendum will be issued to clarify ambiguities.

#### **1.11. CLARIFICATION AND ADDENDA**

- 1.11.1. All clarifications, or other instructions (ie. additions, alterations or deletions to the specifications and other parts of this request for proposals) issued by the Manager of Recreation and Community Services during the proposal period will be in writing in the form of an Addendum and posted on the Township of Madawaska Valley website.
- 1.11.2. All such changes shall become part of the proposal request and shall be allowed for in arriving at bid pricing.
- 1.11.3. It is the responsibility of interested bidders to regularly check the Township of Madawaska Valley website for posted queries or addenda.

#### **1.12. WITHDRAWAL OF PROPOSAL**

Bidders will be permitted, without prejudice, to withdraw their bid unopened after it has been received by the office of the Manager of Recreation and Community Services, provided such request for withdrawal is received in writing by the Manager of Recreation and Community Services prior to the closing date and time. The withdrawal of a proposal does not disqualify a Bidder from submitting another proposal prior to the closing.

#### **1.13. PROPOSAL OPENING**

Proposals will be opened at 3:15pm EST on Wednesday October 29 2025 at the Township of Madawaska Valley offices, 85 Bay Street, Barry's Bay ON. The opening of proposals is open to the public. Opening of proposals does not signify acceptance of any proposal.

#### **1.14. INFORMAL PROPOSALS**

Proposals that are incomplete, illegible, unbalanced, conditional or obscure, or which contain additions not called for, reservations, erasures/overwriting/strikeouts not initialed, alterations or irregularities of any kind, or are not properly signed may be rejected as informal.

### **1.15. PRICING DISCREPENCIES**

Whenever there is a discrepancy between the unit price and the extended price on the bid form, the unit price shall govern, and the total price bid shall be adjusted accordingly.

### **1.16. REFERENCES**

If requested, Bidders shall provide references that are relevant to the current project in scope and value. The Township will review these references and the Bidder's prior performance on other contracts with the Township and consider the same during evaluation of bids. References may be requested during the proposal call or post-bid opening.

### **1.17. AWARD OF CONTRACT**

- 1.17.1. Award of this contract is subject to budget approval.
- 1.17.2. The Contract is only awarded on acceptance by the appropriate level of governance of the Township based on the Contract value, and following evaluation of the proposals submitted.
- 1.17.3. The Township reserves the right to request clarification on any bid or to ask Bidders to supply any additional material deemed necessary to assist in the evaluation of the bid.
- 1.17.4. The Township reserves the right to negotiate price or terms with the lowest compliant Bidder should the bid price be over the budget allotted for the project, or to cancel and recall the bid.
- 1.17.5. The lowest or any submission will not necessarily be accepted, and the Township reserves the right not to award any contract if it is deemed not to be in its best interest.

### **1.18. NON-RESIDENT BIDDER**

If the Bidder is non-resident in Ontario, the Bidder shall not commence work or order any materials or equipment for the proposal until they have furnished a certificate from the Retail Sales Tax Branch showing that they have registered with the Retail Sales Tax Branch. The Bidder shall ensure that all sub-contractors whom they propose to use for carrying out any of the work and who are non-resident in Ontario have registered with and have complied with the requirements of the Retail Sales Tax Branch before they commence any such work.

### **1.19. RIGHT TO REJECT**

The Township reserves the right to reject proposals from any Bidder who in the Township's reasonable opinion are deemed incapable of providing the necessary labor, materials,

equipment, financing, and management resources to provide the requirement in a satisfactory manner.

## **2. TERMS AND CONDITIONS**

### **2.1. GENERAL**

The Instructions to Bidders, Terms and Conditions, Specifications, and Form of Proposal, form the entire contract between the parties, and no variations thereof irrespective of the wording of the Bidder's acceptance will be effective unless specifically agreed to in writing by Township staff.

### **2.2. DEFINITION**

Where context is required, the word "goods" is to be read as "service".

### **2.3. TERMS OF PAYMENT**

Unless otherwise specified, should the Corporation of the Township of Madawaska Valley enter into a contract relating to the Project, it will make payment of accounts within thirty (30) days of the date on which the invoice is received.

### **2.4. PAYMENT WITHHELD FOR UNSATISFACTORY PERFORMANCE**

The Township shall not pay the final invoice to the successful bidder for the work, services, products, or materials stated in these documents until the Township is fully satisfied that all terms and conditions stated in these documents and all work, service performed, products or materials delivered shall be deemed to have been completed, installed, or delivered to the complete satisfaction of the Township.

### **2.5. QUALITY**

Goods are subject to the Township's inspection and approval at a reasonable time after delivery. If specifications are not met, goods may be returned at seller's expense.

### **2.6. CODES AND STANDARDS**

All work under this contract must be completed in accordance with all appropriate requirements in Federal, Provincial and Municipal laws, statutes, regulations, and bylaws, relevant to this proposal request including but not limited to:

- The Construction Lien Act, R.S.O. 1990, c. C.30
- The Occupational Health and Safety Act, R.S.O. 1990, c. 0.1, as amended
- Workplace Safety and Insurance Act, effective January 1, 1998, as amended
- The Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c.M.56, as amended
- Technical Standards & Safety Authority

- Accessibility for Ontarians with Disabilities Act (AODA)

## **2.7. SIGNED BID TO BE CONSIDERED AN OFFER**

The submission of a signed proposal to the Township shall be deemed to constitute an "Offer" which may be accepted, at the option of the Township by a written acknowledgement of acceptance, and (a) a duly executed contract, and/or (b) the issuance of a "purchase order". Upon such acceptance, the terms, conditions, and specifications herein set forth shall be confirmed and binding upon the Township and the Bidder. Upon acceptance of the proposal, both parties hereto agree to do everything necessary to ensure that the terms of this agreement take effect.

## **2.8. SATISFACTION OF BIDDER**

The submission of a signed proposal to the Township shall be deemed to constitute an "Offer" which may be accepted, at the option of the Township by a written acknowledgement of acceptance, and (a) a duly executed contract, and/or (b) the issuance of a "purchase order". Upon such acceptance, the terms, conditions, and specifications herein set forth shall be confirmed and binding upon the Township and the Bidder. Upon acceptance of the proposal, both parties hereto agree to do everything necessary to ensure that the terms of this agreement take effect.

## **2.9. RESERVATIONS FOR REJECTION AND AWARD**

The Township reserves the right to accept or reject any/or all bids, to waive irregularities and technicalities and to request rebids on the required services. The Township also reserves the right to waive minor variations to specifications.

## **2.10. BIDDER'S EXPENSE**

Bidders are solely responsible for their own expenses in preparing a proposal and for subsequent negotiations with the Township, if any. If the Township elects to reject all proposals received, the Township will not be liable to any Bidder for any claims, whether for costs or damages incurred by the Bidder in preparing the proposal, loss of anticipated profit in connection with any final Contract, or any other matter whatsoever.

## **2.11. LITIGATION WITH THE TOWNSHIP**

No proposal submission will be accepted from any bidder, inclusive of its subcontractors(s), which has a claim or has instituted a legal proceeding or has threatened to claim or institute a legal proceeding against the Township or against whom the Township has a claim or has instituted a legal proceeding with respect to any previous contract, without the approval of Council in its sole and unfettered discretion. This applies whether the legal proceeding is related or unrelated to the subject matter of this proposal.

## **2.12. DEFAULT OF BIDDER**

In case of a default of performance of the Project, the Township of Madawaska Valley reserves the right to transfer the Project to another source. All additional expenses arising from such transfer will be charged to the original submitter of a proposal or contractor and are due forthwith.

## **2.13. INDEMNIFICATION**

The Bidder agrees to indemnify, defend, and save harmless the Township and all Municipal Officers, employees, volunteers, servants and agents of its Boards and Commissions from and against all losses, costs, damages, expenses, and claims made against the Township, resulting from or arising out of any act or omission or negligence of the Bidder, his employees or agents, during or connected with the performance of the work under the contract.

## **2.14. WARRANTY**

The Bidder warrants that all goods to be supplied are free from defects in material, workmanship, and design, suitable for the purposes intended implied, in compliance with all applicable specifications and free from liens or encumbrance on title. All services are performed in accordance with current, sound and generally accepted industry practices by qualified personnel trained and experienced in the appropriate fields.

## **2.15. CONFLICT OF INTEREST**

All Bidders are required to disclose to the Township any potential Conflict of Interest, may it be pecuniary or otherwise. If a conflict of interest does exist with the potential successful Bidder, the Township may, at its discretion, refrain from awarding the project to the Bidder. The Bidder covenants that it presently has no interests, and it shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its service hereunder. The Bidder further covenants that in the performance of this contract no person having such known interest shall be employed.

### **3. BACKGROUND AND OBJECTIVES**

#### **3.1. BACKGROUND**

Crooked Slide Park, located at 343 Old Barry's Bay Road in Combermere, is of significant historical, recreational, and tourism value for the Township of Madawaska Valley. In the summer of 2025, The Township of Madawaska Valley completed a structural review of the park (see Appendix B, page 14). Portions of the log chute were found to be in a state of disrepair due to natural deterioration and exposure to elements.

The Township is therefore seeking an engineered design of the walkway and chute portions only (see Appendix A, page 13) of Crooked Slide Park to be able to rehabilitate these features in the future. As this is a heritage structure, it is of utmost importance that the drawings of the new structure match the existing as close as possible.

#### **3.2. SCOPE OF SERVICES**

The selected firm will be responsible for completing an engineered design of the chute and walkway of Crooked Slide Park. Scope of services includes:

- Visiting the site to obtain necessary measurements and perform a visual review of existing structure
- Draft and final engineered drawings for of the walkway and chute portions of Crooked Slide Park, with the new structure being as identical to the existing as permissible by today's building and safety standards or codes
- Details on anchoring of new beams and posts to rock base, including recommended materials given the near-constant exposure to water
- Recommended wood species for replaced elements

It is assumed the entirety of the existing chute and walkway will be removed and discarded. The bridge, adjacent boardwalk, and spillway are not included in the scope of this project (see Appendix A, page 12).

If additional repairs/replacement not within the scope of work within this Proposal are discovered, they will be discussed and negotiated accordingly.

#### **3.3. DEADLINES**

This project must be completed by December 19 2025. If the Manager of Recreation & Community Services grants the contractor an extension of time, the contractor shall complete the work by the revised deadline.

#### 4. EVALUATION CRITERIA

Proposals will be evaluated based on the following criteria and scoring:

| <b>ELEMENTS</b>                                                                                                                                                                                                                                                          | <b>POINTS</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Qualifications/Experience</b><br>Evaluation of qualifications and experience, including history of successfully providing similar valued projects and amount of time in business. References may be contacted to verify satisfactory performance on similar projects. | <b>25</b>     |
| <b>Schedule</b><br>Evaluation of ability to work within requested timeline.                                                                                                                                                                                              | <b>25</b>     |
| <b>Budget</b><br>Evaluation of total cost of project.                                                                                                                                                                                                                    | <b>50</b>     |
| <b>TOTAL</b>                                                                                                                                                                                                                                                             | <b>100</b>    |

## 5. FORM OF PROPOSAL

### TOWNSHIP OF MADAWASKA VALLEY FORM OF PROPOSAL ENGINEERED DESIGN OF CROOKED SLIDE PARK CHUTE AND WALKWAY

Hannah Gutoskie  
Manager of Recreation and Community Services  
Township of Madawaska Valley 85 Bay Street, Barry's Bay ON K0J1B0

CLOSING DATE: Wednesday October 29 2025  
CLOSING TIME: 3:00 PM local time

#### BIDDER INFORMATION

|                           |  |
|---------------------------|--|
| Company                   |  |
| Contact Name and Position |  |
| Street Address            |  |
| Telephone                 |  |
| Email                     |  |
| Signature                 |  |
| Date                      |  |

The bidder agrees to supply all services necessary for the completion of the work set forth in the Proposal Documents in the sum noted below:

|                                                           |  |
|-----------------------------------------------------------|--|
| Engineered Design of Crooked Slide Park Chute and Walkway |  |
| HST (13%)                                                 |  |
| <b>TOTAL PROPOSAL AMOUNT</b>                              |  |

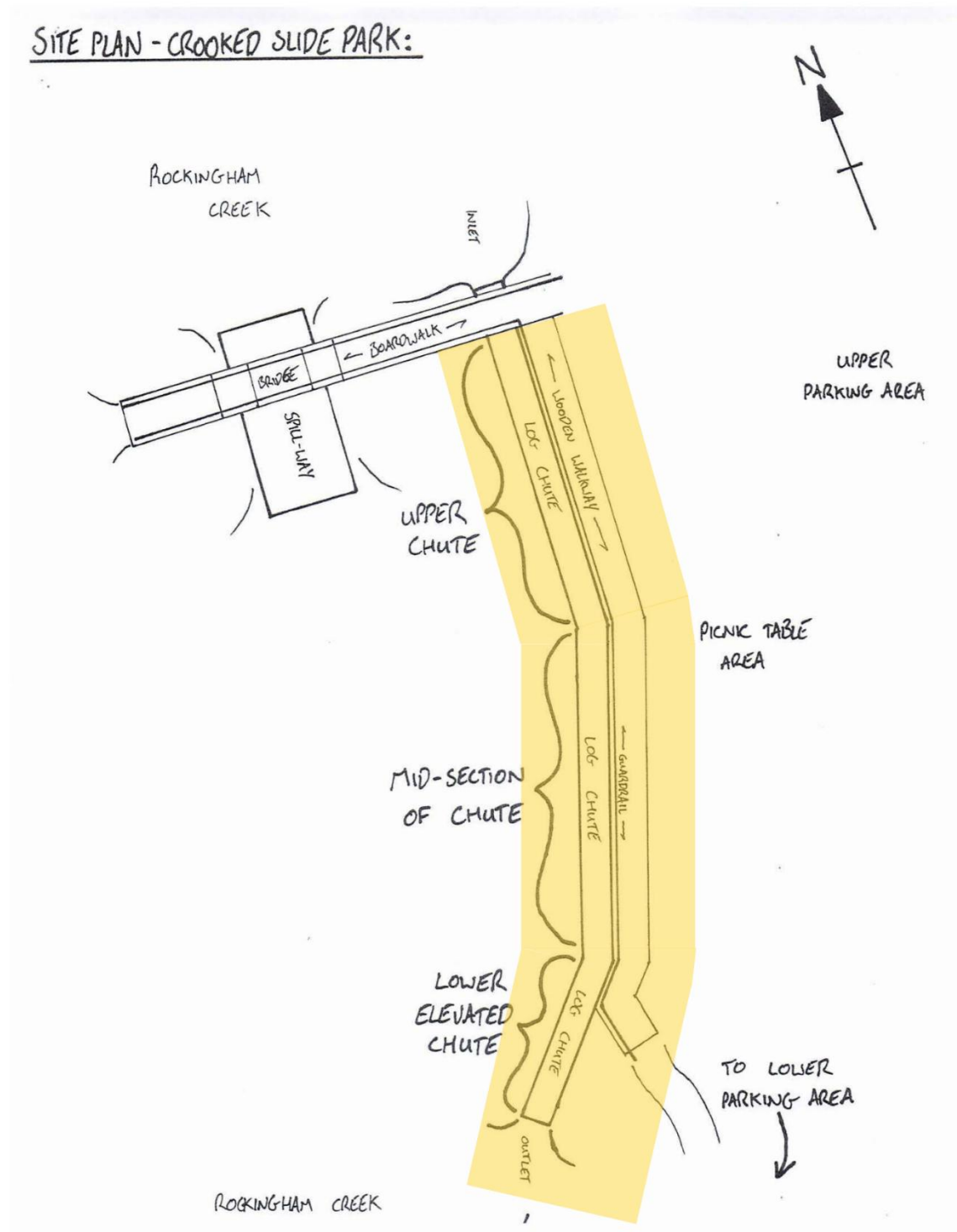
#### REFERENCES

The following is a list of three project references of a similar scope and budget as the project outlined above.

| PROJECT NAME | YEAR COMPLETED | CONTACT NAME AND PHONE/EMAIL |
|--------------|----------------|------------------------------|
|              |                |                              |
|              |                |                              |
|              |                |                              |

## APPENDIX A – MAP OF CROOKED SLIDE PARK ELEMENTS

Highlighted region denotes sections included in the scope of this project.



**APPENDIX B – Structural Review: Crooked Slide Park, Combermere**

See following page.



Township of Madawaska Valley  
C/O Andrew Peplinski,  
Planning Services and Facilities Supervisor

85 Bay Street, PO Box 1000  
Barry's Bay, ON  
K0J 1B0

1st July 2025

**Structural Review: Crooked Slide Park, Combermere.**

Dear Sir,

We provide the following as an assessment of the structural integrity of elements of the log chute located at Crooked Slide Park, 343 Old Barry's Bay Road, within the Township of Madawaska Valley. We have made every effort to be as accurate as possible in our assessment and base our observations and recommendations solely on our experience as a building construction company. The information contained herein is based upon a number site visits carried out in mid-June, 2025.

Included is a rough-sketch site plan of the park which can be referred back to when going through the report as different sections of the structure are discussed. We have also included photographs to highlight key areas in need of attention, and provide our professional recommendations of remedial works required to preserve this important recreational feature of the Township and wider area.

**General Overview of Structure:**

The log chute runs approximately 180 feet, from the inlet of Rockingham Creek into the chute to the north to its outflow near the lower parking area to the south. Running perpendicular to the log chute, and at the north end of the run is a boardwalk and bridge over a wide spill way. One fifth of the total chute length is an elevated section, with exterior braces and post supports underneath, while the remaining four fifths of length is set atop the ground and is accompanied by a wooden walkway, 4 feet wide with a guardrail. The average cross-sectional dimension of the chute is 53" wide by 42" high.

Construction of the log chute is comprised of true 6" x 6" rough faced timbers, each 16 to 20 feet in length, and stacked 7 courses high (6 courses above the water deck and 1 course below). The water deck consists of true 2" x 6" rough faced boards, supported intermittently with crossers (the exact make-up of the water deck is hard to accurately classify due to varying spot repairs carried out over the years and the volume of water running at the times of inspection). The accompanying wooden walkway consists of a 4 foot wide boardwalk with joists at 4 foot centres and 2" x 6" decking. The guardrail between the walkway and chute consists of 4" x 4" posts, spaced 4 feet apart, with a 2" x 4" mid rail and 2" x 4" and 2" x 6" top rail. The lower, elevated section of chute is supported by an assembly of 8" x 8" posts, 6" x 8" horizontal beams, and 2" x 8" diagonal braces. There are four of these supporting assemblies spaced approximately 8 feet apart. The third assembly inwards from the outlet of the chute has been more recently replaced, but is undersized comparative to the other three.

**Tel: (613) 756-8077**

**Cell: (613) 401-6114**

**Structural Report:**

(Please refer to the site plan sketch as we have broken the report down by section; See also accompanying photographs highlighting areas of concern)

*Lower Elevated Chute:*

This section of the log chute, running for 34 feet, shows the greatest signs of deterioration in the entire structure and should be considered a priority for remedial action. All supporting elements are showing signs of excessive rot and decay and connections between posts, beams, and braces have deteriorated significantly. In each supporting component, there is a great amount of cracking, rotting, and voiding caused by decay. Aside from the diagonal braces, these wooden elements are quickly losing their ability to provide the required support to the chute assembly. On the one section of supporting assembly that has been more recently repaired/replaced, the beam used is heavily deflected, suggesting it is undersized for the loads present (see photo #1).

On the main chute part of this lower elevated section, it is hard to tell the condition of the water deck. Probing this area suggested there was still some strength to the wood here, and while there are excessive signs of water escaping through the bottom and lower sides of the chute, beyond the main opening, this has long been a feature of the Crooked Slide (see photo #2). It can be assumed that there is a strong need for repair work here, but a true evaluation can only be made in the absence of the normal heavy water flow. The sides of the chute in this section are heavily decaying, with only the top 2 or 3 courses of 6" x 6" side timbers remaining stable and rot free.

*Mid-Section of Chute:*

While not as significant as the lower elevated section of the log chute, the middle section of chute does show signs of deterioration that will need addressing in the shorter term. The mid-section runs for approximately 76 feet and is accompanied by a wooden walkway and guardrail described in the overview above. Once again, with the water flow present during inspections, it is hard to make an accurate assessment of the condition of the water deck. However, there is evidence of considerable water leakage at a number of points along this length of chute, suggesting sections of the water deck have failed. Additionally, this section shows signs of inward deflection of both sides of the chute (see photo #3). This is most likely caused by horizontal frost action over the years, forcing the sides inwards, coupled with the lack of any means of bracing or blocking that would counteract these forces. This inward sloping is more prevalent on the walkway side of the log chute. While it is not clear how long the sides have been in this condition or by what amount they worsen each year, the conditions at the time of inspection show a difference of on average 11" between the internal measurement taken at the bottom of the chute cross-section and the internal measurement taken at the top of the chute cross-section.

The mid-section is also showing significant signs of decay to the lower courses of 6" x 6" timbers. Using a screwdriver to test for approximate density of the material, we were able to penetrate the wood with ease on a number of timbers, particularly around the water line in the chute. Notably, the lowest course of timbers - just below the water line - was found to remain quite solid. However, all but the top 3 courses on either side of the chute exhibited serious deterioration and would require all courses to be removed for effective replacement (see

photos #4 and #5). There were a couple of instances here as well where a top timber had decayed on the surface with voids present (see photo #6).

The accompanying wood walkway and guardrail in this section are showing normal signs of wear. The guardrail is largely solid with little to no sign of deterioration. However, it is being equally deflected by frost on account of its connection to the side of the log chute. The 4" x 4" posts run below the surface of the wooden decking and down the sides of the log chute. As a result, the guardrail assembly leans inward towards the chute (see photo #7). The walkway also has need of repair to a number of boards, and there are sections that feel quite spongy underfoot, suggesting a need to replace joists. While the walkway and guardrail in this mid section don't necessarily show major signs of deterioration, their removal and replacement may be necessitated by the greater need to repair significant parts of the log chute itself.

#### *Upper Chute:*

The upper section of log chute shows the least sign of deterioration of all. While there are signs of water leakage at a few points along this section, they appear minimal and not in need of immediate attention. There is minor decay in a couple of the 6" x 6" timbers, but nothing that requires remediation at this point. This section also has minimal signs of deflection of the sides of the chute caused by frost action, and it is still possible to introduce blocking/bracing at a few points, and without great effort, to help mitigate this for the future.

The wooden walkway and guardrail remain stable and strong and may only require minor replacement of a couple of deck boards here and there.

#### *Bridge/Boardwalk:*

This section of the Crooked Slide Park is in good order, having likely received minor repair works in the past couple of years. All boards and guardrails are in good order and can be easily maintained by maintenance staff throughout the open seasons.

Of note, the previous 4" x 4" posts supporting the boardwalk have largely been replaced by the use of adjustable steel dock posts and pads. This approach appears quite effective and it is recommended that this method be completed further along the boardwalk where a few wooden posts into the water still remain.

### **Structural Recommendations:**

#### *Lower Elevated Chute:*

This section presents the most significant deterioration and it is strongly recommended that repairs/replacement be undertaken within the next 2 years. While some material remains viable for re-use (namely 6" x 6" timbers), most structural members will need complete replacement. It is estimated that no more than 25% of the 6" x 6" timbers will be fit for re-use. Should their re-use be considered, it is advised to re-install them as the top courses of timbers only, so as to facilitate easier future replacement. All posts and beams will need full replacement, including re-anchoring the posts to their bedrock base. Use of a species suitable for continual water exposure, or pressure treated wood strongly recommended. All replacement materials should be sized the same as the elements they replace.

The undertaking of this work would require the closure of an area around the lower chute section and under the elevated structure and would also require damming of the chute inlet to divert all water flow over the spillway.

#### *Mid-Section Chute:*

Although the level of deterioration isn't as great in this section as the lower section of chute, the particular location of the deterioration still requires a complete disassembly of both the chute and the accompanying walkway and guardrails for proper repair. While the top three or four courses of 6" x 6" timbers in this section appear mostly intact and re-usable, they must be removed in order to get to the lower courses that do have significant decay. Moreover, the only means of correcting the inward deflection of the sides of the chute would be to completely disassemble the accompanying walkway and guardrail and excavating down to the base of the log chute. From here, the structurally deficient elements can be replaced, while also allowing the introduction of blocking/bracing at set intervals along the interior of the log chute (recommendation would be to install a 6" x 6" timber perpendicular to the sides and at the second or third course down from the top, every 8 feet). Removal and excavation of the walkway would also allow a form of retaining wall tie-backs to be introduced to the exterior of the walkway side of the log chute, and replacement of excavated material with better draining materials (crushed stone) to prevent horizontal frost heave in the future. It is estimated that 30% to 40% of the 6" x 6" timbers in this section are re-usable and it is once again advised that the re-usable members be used in the top most courses to allow for easier future replacement.

The above listed repair would again require the diversion of water at the chute's inlet and site fencing to close off the area of work. The recommended repairs also require the replacement of the removed wooden walkway and guardrail. These should be replaced to the same dimensions as existing. It is again advised that remedial works be carried out within the next two years to this section of the log chute.

#### *Upper Chute:*

The upper section of the log chute shows minimal signs of deterioration and deflection and can be preserved with occasional maintenance from Township staff. While there are signs of slight deflection to the sides of the chute, they are not as concerning as the section below and there is still an opportunity to introduce blocking to the interior of the chute walls, perpendicular to the sides, to help offset this action. While a few of the 6" x 6" timbers show early signs of decay, we believe they will remain structurally viable for the next five-plus years. There are a few deck boards that may soon need replacing on the wooden walkway, however, this can easily be completed by maintenance staff. The guardrail in this section remains equally stable and only requires periodic inspection to ensure it stays fit for purpose.

#### *Bridge/Boardwalk:*

As mentioned previously, the conditions present at this section of the Crooked Slide Park suggest more recent repairs have been carried out. As a result, we believe there is no further repair needed here. Nevertheless, we do recommend replacing the remaining 4" x 4" posts at

the far side of the boardwalk, past the spillway, be replaced with adjustable steel dock posts and bases. This would ensure no further deterioration of foundational elements of the boardwalk. The decking and guardrails here are in good shape and can be easily maintained with periodic inspection and minor repair by maintenance staff.

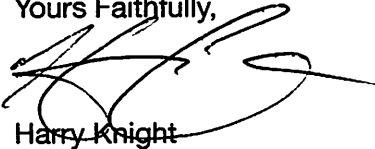
### **Conclusion:**

Over the course of our site inspections of the log chute at Crooked Slide Park, we identified varying degrees of deterioration; while the lower elevated section of the chute shows significant decay in need of replacement, conditions moderately improved "upstream". We believe that the conditions present at the lower and mid sections of the chute require serious attention within the next couple of years. Furthermore, the structural elements in these two sections are at a location and level of deterioration that requires complete disassembly and significant replacement to preserve this important feature. We can see no way of repair, other than the methods described above, that would properly enable the log chute to be preserved for years to come.

Both the upper chute and bridge/boardwalk sections of Crooked Slide Park remain in good condition and easily serviceable over the next five-plus years, and with periodic inspection and minor repair, will remain useable for greater than 10 years.

We have made every effort to include important detail in this report. However, we will happily provide clarification or additional information on any aspect of the report upon request.

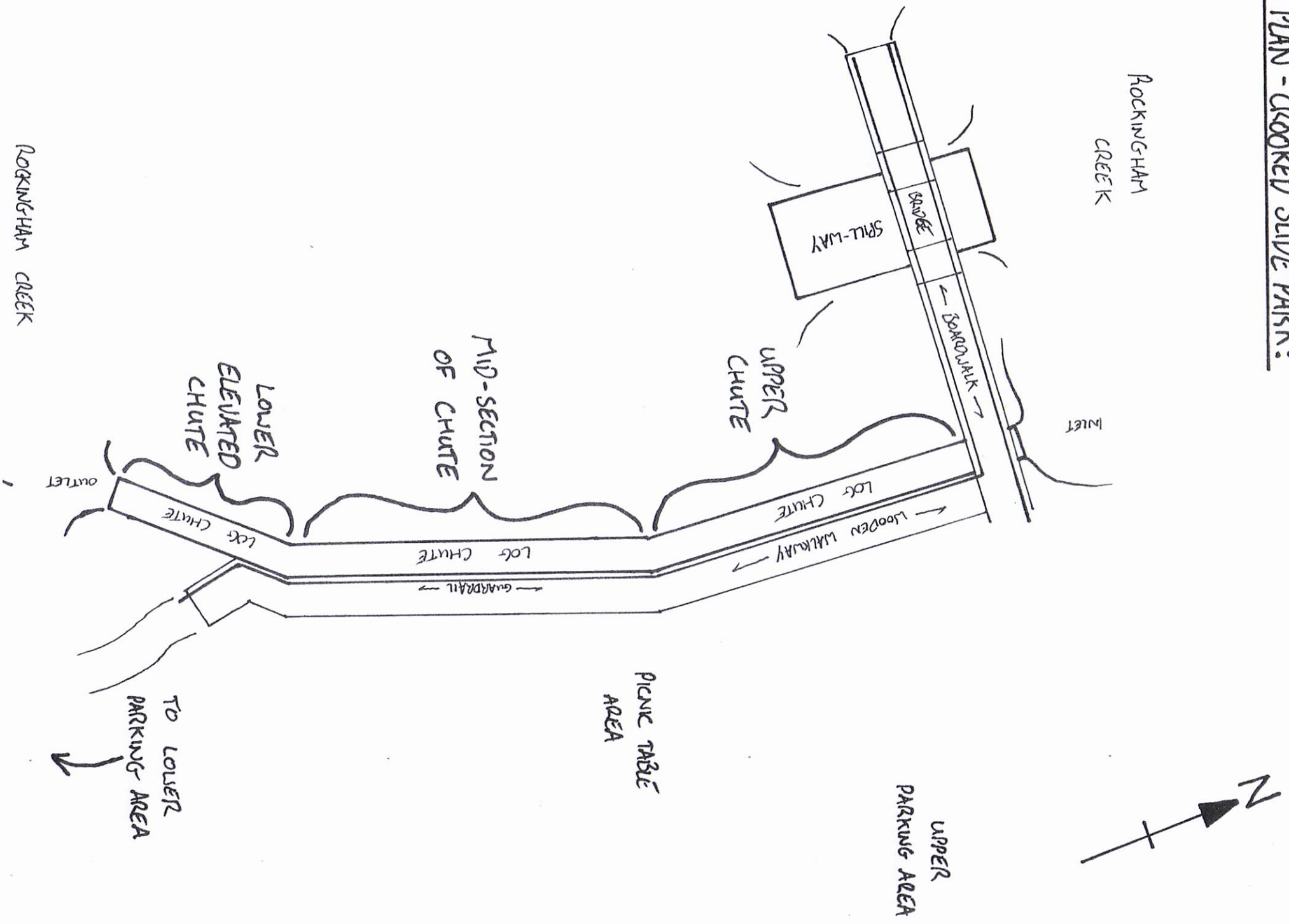
Yours Faithfully,

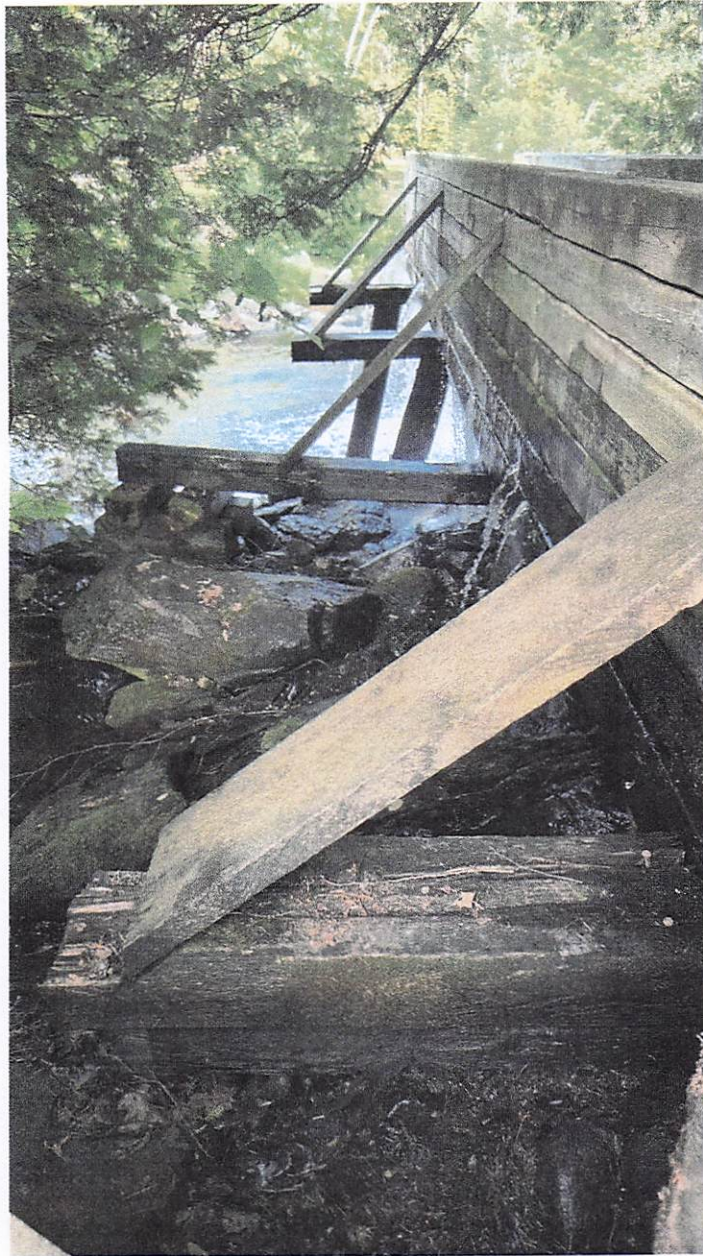


Harry Knight

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# SITE PLAN - CROOKED SLIDE PARK:





**Photo #1: Lower Elevated Chute Post and Beam Supports**

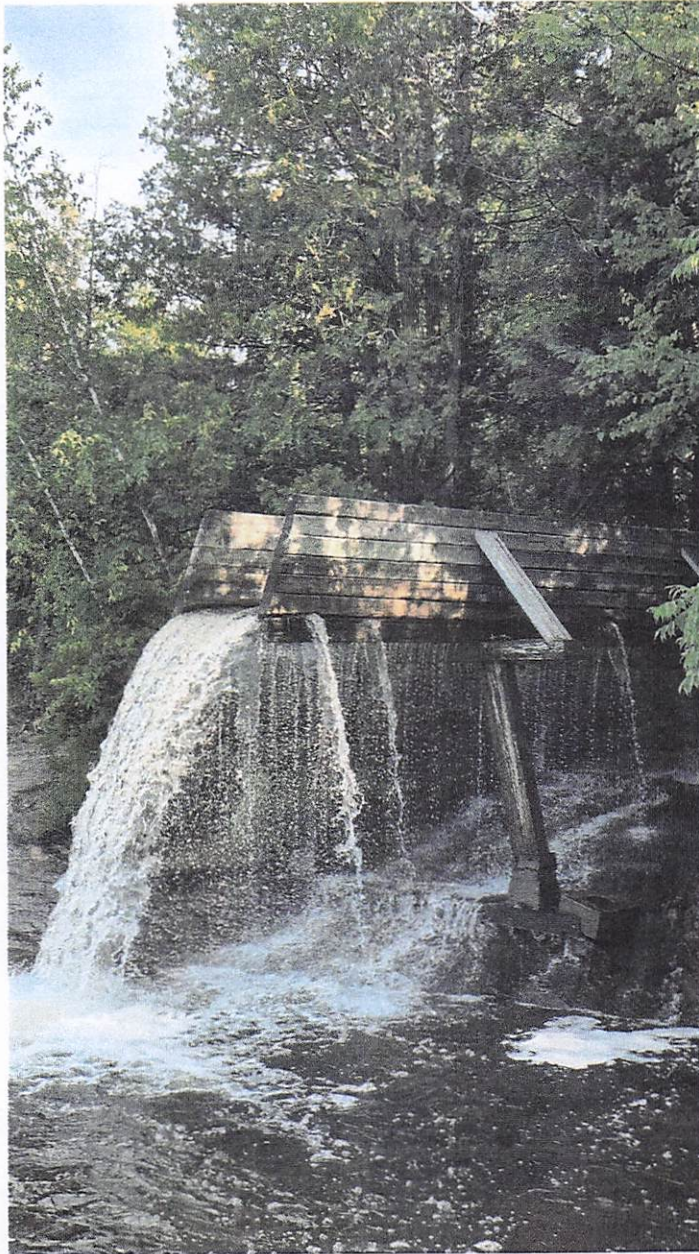
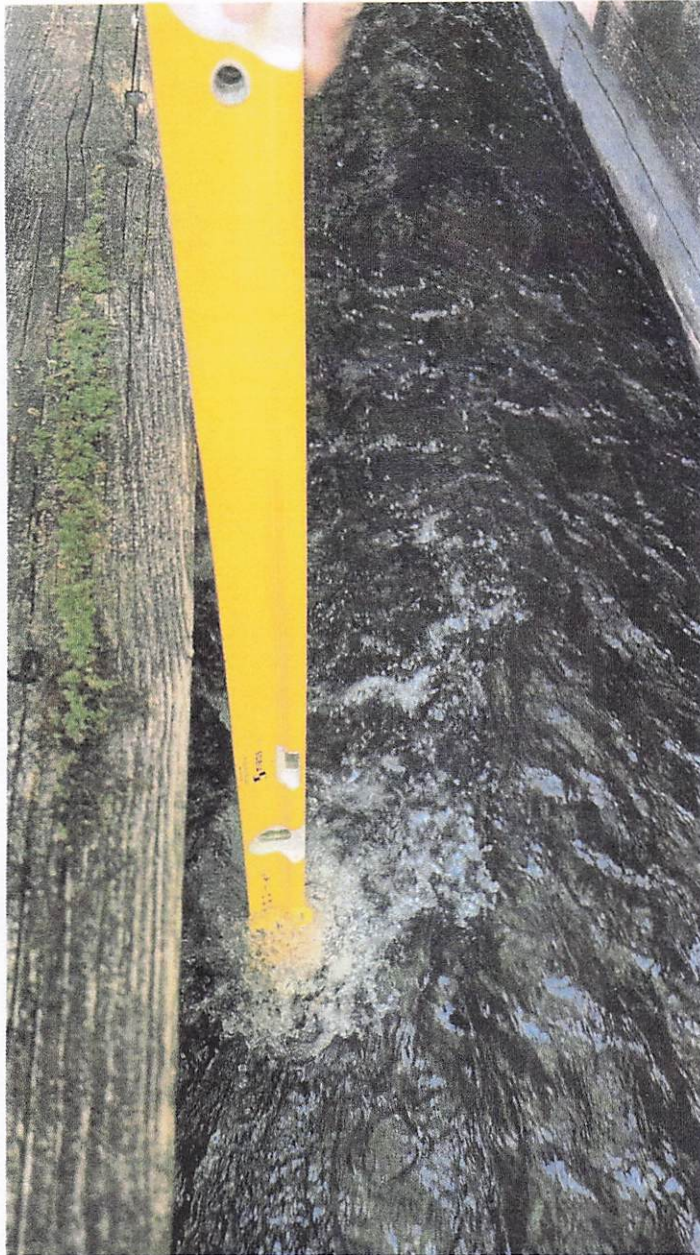


Photo #2: Lower Chute Outlet



**Photo #3: Mid-Section Chute Inward Deflection**

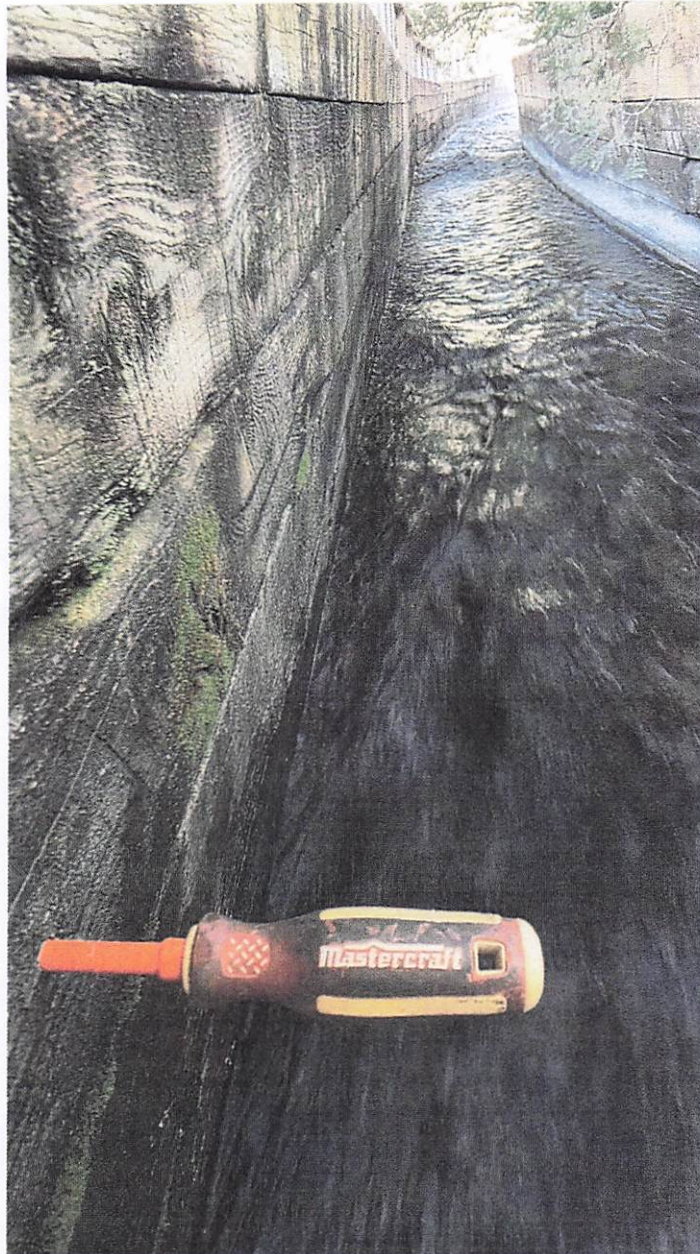


Photo #4: Mid-Section Chute 6" x 6" Timber Decay



**Photo #5: Mid-Section Chute Decay**

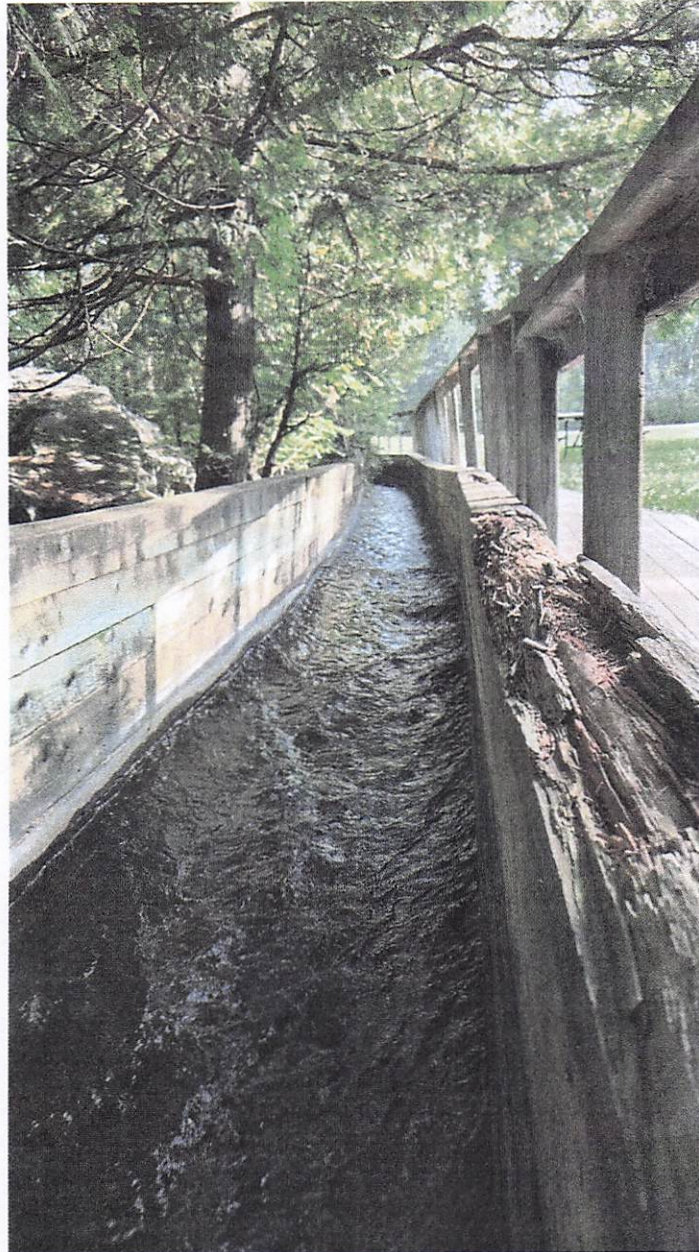
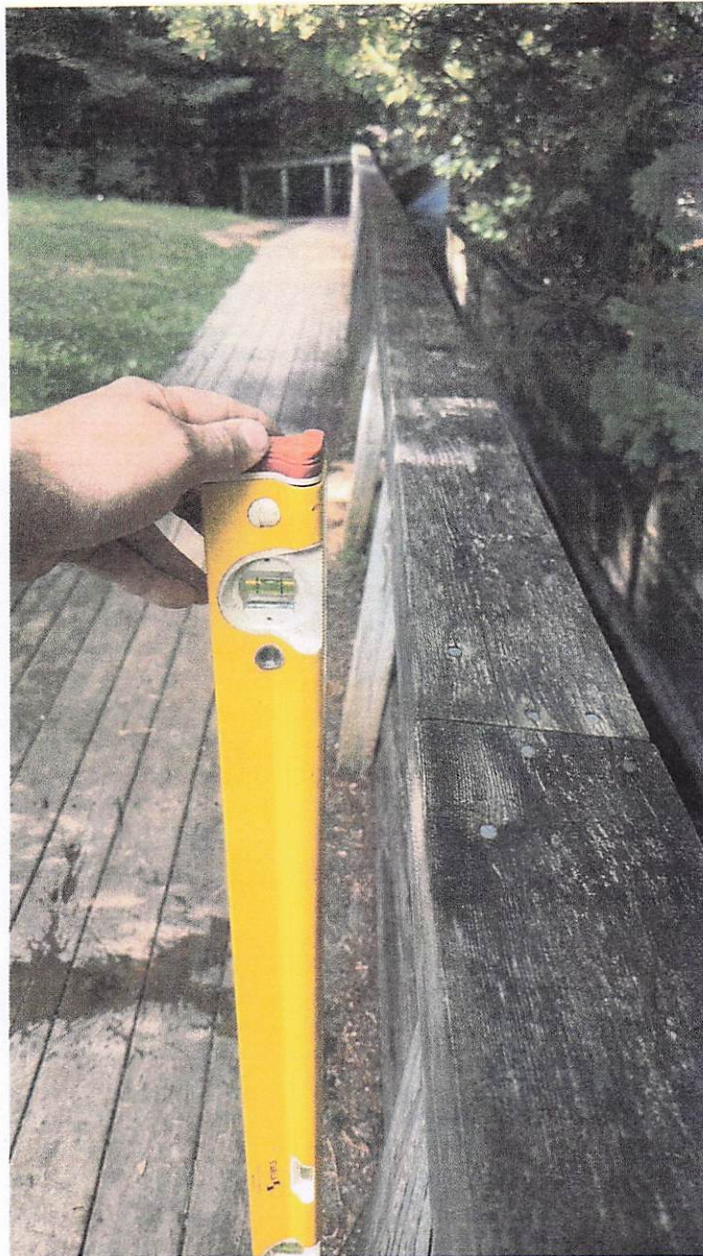


Photo #6: Top Course Decay



**Photo #7: Guardrail Deflection**