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SOW - TOWER AND FOUNDATION DEMOLITION

LL5000.1 Brébeuf Rear Range Tower Removal

MARITIME AND CIVIL INFRASTRUCTURE

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Approved by: LL

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SECTION: 011000 GENERAL INSTRUCTIONS

PART 1 - GENERAL

1.1 Minimum Standards

- .1 Perform work in accordance with National Building Code of Canada (NBCC) and any other code of provincial or local application. In the case of any conflict or discrepancy, the more stringent requirements shall apply.
- .2 Meet or exceed requirements of:
 - .1 Contract documents;
 - .1 Specified standards, codes and referenced documents, most recent edition.

1.2 Description of Work

- .1 Work under this Contract includes but is not limited to the provision of all labour, materials, and equipment required to complete with all appurtenances identified herein, including:
 - .1 Mobilize to site with a work barge/vessel of appropriate size and certification;
 - .2 Remove, salvage and transport existing tower complete with all appurtenances;
 - .3 Demolition and disposal of existing concrete foundations;
 - .4 Topsoil and site remediation;
 - .5 Demobilize.

1.3 Submittals

- .1 Mandatory submittals and schedule for submission are detailed below and in Appendix A2. The following identifies general requirements only. The relevant sections must be consulted for a complete listing of mandatory content.
- .2 Detailed Schedule:
 - .1 Deadline: No later than ten [10] working days following award.
 - .2 Deliverables: Project construction schedule
 - .1 The Contractor must furnish a high-level schedule outlining the major construction milestones. Schedule shall clearly define the anticipated start and finish of the project.
- .3 Demolition Plan:
 - .1 Deadline:
 - .1 No less than 10 working days prior to mobilization.



.2 Deliverables:

.1 A Construction Plan of sufficient detail to demonstrate that the Contractor has considered all the challenges of the project and is prepared to undertake the works in a competent and professional manner in accordance with all legislation, including:

- .1 Core Project member contact information (site foreman and project manager);
- .2 Complete listing of all Subcontractors;
- .3 Project specific safety program (Section 013530);
- .4 Project environmental protection plan (Section 013543);
- .5 Demolition plan (Section 024117).

.4 Maintenance Package

.1 Deadline:

.1 21 calendar days following acceptance of the works

.2 Deliverables:

.1 Disposal receipts

1.4 Contractor Qualifications

- .1 The Work must be carried out under the supervision and responsibility of a sole specialized Contractor.
- .2 The Contractor must designate a project manager or main point of contact for the contract.
- .3 The Contractor must have experience in performing similar Work.

1.5 Site Location

- .1 The site location is at the on the Western shore of Beausoleil Island in Georgian Bay (see Appendix A1 for photographs and map screenshots of the site)
- .2 The site coordinates are 44°52'36.82"N, 79°52'29.11"W
- .3 The site is approximately 12km North of the town of Penetanguishene, ON.
- .4 The closest settlement is Penetanguishene, ON.
- .5 Before tendering, Contractors should familiarize themselves with the location, scope of work, site restrictions, and temporary measures if required for completing the work as specified.
- .6 Contractor should note that this work is to be performed on a smaller in-land lake.



1.6 Existing Conditions

- .1 Bidders must make their own estimate of the difficulties associated with all phases of the works.
- .2 The contractor must include in their costs all expenses related to the difficulties of working at the sites.
- .3 Pictures of the site have been included in Appendix A1.

1.7 Contractor's Access to Site

- .1 Contractor is responsible for transportation of all labour, materials, and equipment to and from the sites, including any and all material furnished or itemized for salvage by Canadian Coast Guard (CCG).
- .2 The site is accessible by water. Site is located approximately 12km from the town of Penetanguishene.
 - .1 This site is in Georgian Bay, but is located within the inlet from Midland/Penetanguishene into the Bay, access points into the Bay should be reviewed.
- .3 The Contractor is responsible for sourcing appropriate marine access to support all construction work.

1.8 Temporary Facilities

- .1 Contractor must:
 - .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
 - .2 Arrange, pay for, and maintain temporary electrical power supply as required for construction, and water supply as required, in accordance with governing regulations and ordinances.
 - .3 Maintain emergency spills kit on-site at all times.

1.9 Completion, Scheduling and Planning of the Works

- .1 Work may commence as early as practical following CCG's acceptance and approval of mandatory submissions.
- .2 Work at site must not commence without written authorization from the CCG Project Authority.
 - .1 Advise the Project Authority at least two [2] weeks in advance of proposed installation date.
 - .2 Field work must not commence until all mandatory submittals have been received and approved by CCG
- .3 Work shall be complete by **October 25th 2024**.



1.10 Fees, Permits, Certificates and Information

- .1 Contractor must provide authorities having jurisdiction with all information requested.
- .1 Contractor must provide copies to CCG of any documentation submitted to other authorities related to the work described in this document.
- .2 Contractor must pay fees and obtain certificates and permits required.
- .3 Contractor must furnish certificates and permits when requested.

1.11 Protection of Existing Work

- .1 Care must be taken to safeguard any existing structures and/or equipment. Upon completion of the Work, all rejected materials, materials declared surplus by CCG, and debris must be removed from the site.

1.12 Reference Documents

- .1 The most recent publication or edition of any document referenced in this specification should be used unless the referencing clause states that this clause does not apply.

1.13 Required Submissions

- .1 A summary of the minimum mandatory submissions required can be found in Appendix A2. This summary is not an exhaustive list of all submissions required for the duration of the project. Additional submissions may be required after award.



SECTION: 013300 SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 General

- .1 This section specifies general requirements and procedures for the Contractor's submissions of documents to CCG for review.
- .2 Do not proceed with the Work until CCG has reviewed submitted documents or samples.
- .3 Where items or information is not produced in SI Metric units, converted values are acceptable.
- .4 Contractor's responsibility for errors and omissions in submission is not relieved by CCG's review of the submitted documents.
- .5 Notify CCG, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .6 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by CCG's review of submission, unless CCG gives written acceptance of specific deviations.
- .7 Make any changes to submissions that CCG may require consistent with Contract Documents and resubmit as directed by CCG.
- .8 Provide CCG with a written notice, when resubmitting, of any revisions other than those requested by CCG.

1.2 Submission Requirements

- .1 Coordinate each submission with requirements of work and Contract Documents. Individual submissions will not be reviewed until all related information is available.
- .2 Allow five [5] working days, or as stipulated in the specifications, for CCG to review the submission.
- .3 The Contractor's Engineer must stamp and sign any submissions requiring a Professional Engineer's seal certifying his approval of samples, verification of field measurements, and compliance with Contract Documents.



SECTION: 013530 HEALTH AND SAFETY REQUIREMENTS

PART 1 - GENERAL

1.1 General

- .1 The Contractor is responsible to develop, implement, and enforce a safety program which addresses all elements of the work performed at the project location.

1.2 References

- .1 Work under this section must be undertaken in strict conformance with all listed references. In the case of any conflict or discrepancy the more stringent and most recent requirements will apply.
 - .1 Canada Labour Code Part II
 - .2 NRC-CNRC National Building Code of Canada
 - .3 Ontario Occupational Health and Safety Act and Regulations
 - .4 Any and all other Provincial/Territorial Regulations and Policies; Worker's Compensation Board Policies; Local municipal regulations; pertaining to safety of the Contractors Workers
- .2 The Contractor must implement a safety program which must address all elements of the Work.

1.3 Submittals

- .1 Project Specific Safety Program
 - .1 Deadline: With Construction Plan
 - .2 Deliverables:
 - .1 Safety Program Document including:
 - .1 A listing of all activities specific to this project and their Health and Safety risks or Hazards.
 - .2 Detailed descriptions of how the activities are to be carried out as well as methods for mitigating hazards and risks
 - .3 A listing of personnel responsible for health and safety measures, and emergency procedures.
 - .4 Material Safety Data Sheets for hazardous products to be utilized in the execution of the works.
 - .5 Proof that a Notice of Project has been filed with the Ontario Ministry of Labour.
<https://www.enop.labour.gov.on.ca/ENOPWeb/ImportantNotice>



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- .6 Contractor must submit completed Field Level Hazard Assessment (FLHA) forms to CCG.



SECTION: 013543 ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.1 Scope of Work

- .1 The Contractor must implement and enforce the following procedures throughout the duration of the work to mitigate potential negative impacts on the surrounding environment.

1.2 References

- .1 Work under this section must be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent and most recent requirements will apply.
 - .1 Canadian General Standards Board (CGSB)
 - .2 Transportation of Dangerous Goods
 - .3 Canadian Council of Ministers of the Environment (CCME) Documentation
 - .4 Canadian Environmental Protection Act

1.3 Submittals

- .1 Project Environmental Protection Program
 - .1 Deadline: With Construction Plan
 - .2 Deliverables: Submit a plan addressing procedures to be implemented to mitigate any negative impact on the environment. Details including the following:
 - .1 Equipment features (age, spill containment).
 - .2 Staging, refueling, and cleaning areas.
 - .3 Clean-up and/or containment procedures.
 - .4 Waste disposal methods and sites.
 - .5 Ant and all appropriate species at risk mitigation.
 - .6 Sedimentation control measures.

PART 2 - PRODUCTS

2.1 General

- .1 Avoid use of hazardous products. Use environmentally friendly products where practical.



PART 3 - EXECUTION

3.1 Construction Area

- .1 Confine construction activities to as small an area as practical.
- .2 Establish material storage, cleaning, and refueling areas where impacts to the surrounding environment will be negligible or readily mitigated.

3.2 Stockpiling of materials

- .1 Materials must be stockpiled as far from the shoreline as practical. Tarps must be used to control dust and run-off.

3.3 Disposal of Wastes

- .1 Clean-up the site at the end of each working day.
- .2 All waste material to be disposed of in a legal manner at a site approved by local authorities. Transporter/hauler must be appropriately licensed.
 - .1 Recycle or reuse materials where possible
- .3 Fires and burning of rubbish on site not permitted.
- .4 Do not bury rubbish and waste materials on site.

3.4 Clearing and Grubbing

- .1 Only clear vegetation that interferes with construction.

3.5 Drainage

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
 - .1 Suspend works during periods of heavy rainfall and add temporary covers to encourage run-off
- .2 Control disposal or runoff of water containing suspended materials or other harmful substances by constructing appropriate control measures (sand bags/silt fence)
 - .1 Sediment control measures shall be inspected and improved/cleaned/replaced as necessary.

3.6 Pollution Control

- .1 Provide methods, means, and facilities to prevent the contamination of soil, water, and atmosphere from the discharge of pollutants produced by construction operations.



- .2 Vehicles, machinery, and equipment shall be in good repair, equipped with emission controls as applicable and operated within regulatory requirements.
 - .3 Abide by local noise by-laws.
 - .4 Avoid unnecessary idling of vehicles or heavy machinery.
 - .5 Limit use of equipment around the shoreline where possible.
 - .6 Implement and maintain dust and particulate control measures in accordance with provincial requirements.
 - .7 Designate a cleaning area for tools to limit water use and runoff. Do not allow deleterious materials to enter waterways. Ensure emptied containers are sealed and stored safely for disposal.
 - .8 The Contractor must take all necessary precautions to guard against the release of any noxious substance or pollutant to the environment. In the event of any spill the Contractor must take immediate action to contain the release and mitigate any impact.
-
- .1 Materials and equipment to intercept, contain, and clean-up any spill or other release must be maintained on site throughout the construction period and must be readily accessible at all times.
 - .2 Any uncontrolled release of a known contaminant (spills, fire/smoke) must be reported to appropriate Provincial Authority and Coast Guard. Spills of deleterious substances to be immediately contained and cleaned up in accordance with provincial regulatory requirements.
-
- .1 Provincial Authority: Ontario Spills Action Centre 1-800-268-6060



SECTION: 014500 QUALITY CONTROL

PART 1 - GENERAL

1.1 Inspection

- .1 CCG or its representative must have access to the Work at all times. If parts of the Work are prepared off-site or in a shop, access must be given to such Work throughout the duration of the project.
- .2 In the event constructions must be submitted to special testing, inspection or approvals prescribed by CCG in these specifications or provided for in work-site regulations, the request for inspection must be made without unreasonable delay.

1.2 Procedures

- .1 Provide CCG with advance notice whenever testing is required in accordance with these specifications, so that all parties involved can be present.
- .2 Submit samples and material required for testing as per specifications without unreasonable delay and in a predetermined order so as not to delay work in progress.
- .3 Provide necessary manpower and installations for obtaining and handling samples and material on site.

1.3 Rejected Work

- .1 Remove defective Work, whether incorporated into the Work or not, which has been rejected by CCG as failing to comply with the contract documents. Replace or re-execute in accordance with the Contract Documents.

1.4 Tests and Mixture Formulas

- .1 Supply test reports and required mixture formulas.

1.5 Factory Tests

- .1 Submit test certificates as prescribed in the relevant section of the specifications.

1.6 Acceptance of Work

- .1 CCG will make acceptance visits of work executed by the Contractor at critical milestones identified in the following sections.
- .2 The Contractor shall inform CCG at least three [3] working days before these inspection visits.
- .3 All Work must be completed in compliance with the specifications before requesting the visit for inspection. If the Work is not completed or deemed non-compliant, the Contractor must be responsible for all costs incurred for subsequent inspections.



SECTION: 016100 COMMON PRODUCT REQUIREMENTS

PART 1 - General

1.1 General

- .1 Secure CCG approval of all products to be incorporated into the Works. Work must not commence until product data and/or samples have received CCG approval.
- .2 Supply and/or fabricate material and equipment of prescribed quality, with performance conforming to established standards.
- .3 Use new material and equipment unless otherwise specified.
- .4 Ensure replacements parts may be readily procured.
- .5 Use products from one manufacturer for material and equipment of same type or classification, unless otherwise specified.

1.2 Manufacturer's Instructions

- .1 Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation methods.
- .2 Notify CCG in writing of any conflict between these specifications and manufacturer's instructions; CCG will designate which document is to be followed.

1.3 Compliance

- .1 When material or equipment is specified by standard or performance specifications, upon request of CCG, obtain an independent testing laboratory report from the manufacturer, stating that material or equipment meets or exceeds specified requirements.

1.4 Substitution

- .1 Where specific products have been specified, proposals for substitution may only be submitted after award of contract. Such requests must include statements of respective costs of items originally specified and the proposed substitution.
- .2 No substitutions will be permitted without prior written approval of CCG. Substitutions will be considered by CCG only when:
 - .1 Materials specified in Contract Documents, are not available; or,
 - .2 Delivery date of materials selected from those materials specified would unduly delay completion of contract; or,
 - .3 Alternative materials to those specified which are brought to the attention of and considered by CCG as equivalent to the material specified will result in a credit to the Contract amount.



SECTION: 024117 DEMOLITION

PART 1 - GENERAL

1.1 Scope of Work

- .1 Work of this section includes the supply of all labour, material, and equipment, necessary to complete the following:
 - .1 Demolition and disposal of the following;
 - .1 Demolish and dispose of existing skeleton tower;
 - .2 Demolition of the existing concrete foundation;
 - .3 Disposal of all waste at a licensed waste disposal facility;
 - .4 Topsoil and site remediation where concrete foundations are removed;
 - .2 All disposal must be done at a licensed waste disposal facility.

1.2 References

- .1 Work under this section must be undertaken in strict conformance with the most recent version of all listed references, In the case of any conflict or discrepancy the more stringent and most recent requirements will apply.
 - .1 CAN/CSA-S350 (Latest Edition) Code of Practice for Safety in Demolition of Structures.
 - .2 Canada Labour Code Part II
 - .3 NRC-CNRC National Building Code of Canada
 - .4 Ontario Occupational Health and Safety Act and Regulations

1.3 Submittals

- .1 Submittals shall be forwarded to Coast Guard in accordance with the provisions of section 013300.
 - .1 Demolition Plan:
 - .1 Deadline:
 - .1 No less than 10 working days prior to mobilization
 - .2 Deliverables:
 - .1 Method of demolition including all associated tasks and schedule;
 - .2 Methods for protecting the site from demolition debris.



- .3 The ultimate disposal location of all waste materials and debris.
 - .1 Include documentation detailing regulatory approval for waste disposal facility and transporter.
- .3 Work under this section shall not proceed until written approval of the demolition plan has been received from the Coast Guard.
- .4 Submit copies of certified receipts from the disposal sites for all material removed from the work site upon request.

1.4 Existing Conditions

- .1 Approximate water depths are shown in Appendix A3;
- .2 Photos of tower and pier are shown in Appendix A1.

PART 2 - PRODUCTS

2.1 General

- .1 Not used

PART 3 - EXECUTION

3.1 General

- .1 Work under this section must be continuous and proceed without interruption unless otherwise approved by CCG.

3.2 Protection

- .1 Implement effective controls to catch/collect all tower and pier debris during demolition.
- .2 Implement effective controls to prevent injury to workers, property, and local traffic.

3.3 Preparation

- .1 Erect warning signs and barricades.
- .2 Ensure all environmental protection/mitigation measures are in place.
- .3 Ensure all items identified for salvage have been removed and stored.

3.4 Demolition

- .1 Demolish all identified items in their entirety
- .2 Ensure that demolition does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution



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- .3 Ensure demolition is undertaken safely. If at any period during demolition the safety of the Contractor's staff cannot be maintained take preventative measures, stop work and immediately notify CCG.

3.5 Disposal

- .1 All material for disposal is to be disposed of off-site at a licensed disposal/recycling facility.



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APPENDIX A1: SITE LOCATION AND PHOTOGRAPHS

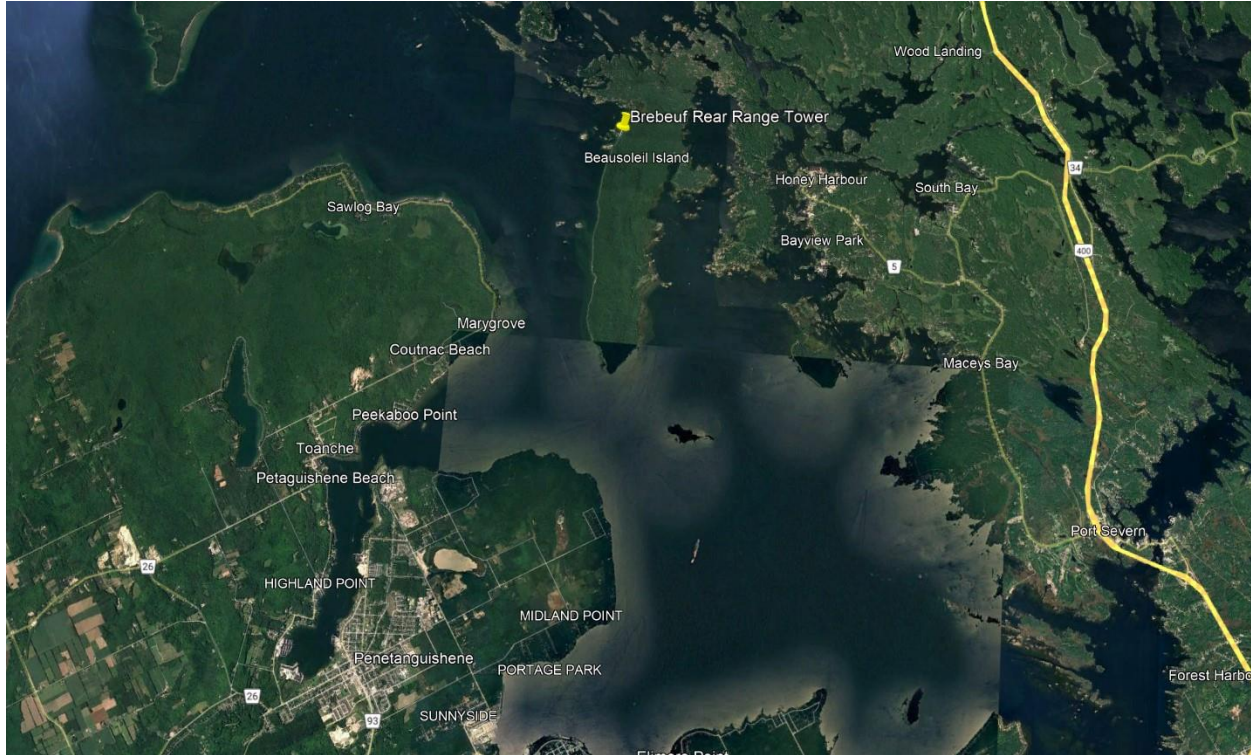


Figure 1: Site Location 44°52'36.82"N, 79°52'29.11"W



Figure 2: Site Location



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Figure 3: Tower site looking from straight on.



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APPENDIX B2: DELIVERABLES



Submission Description	Section(s)
Deadline: Ten [10] calendar days following award letter	
Proof of qualifications: a) Proof of CWB Certification	<i>011100</i>
Detailed schedule: a) Project construction schedule	<i>011100</i>
Deadline: Ten [10] working days following award	
Construction Plan a) Project specific safety plan b) Project environmental protection program c) Demolition plan	<i>011100</i> <i>013543</i> <i>024117</i>
Deadline: Twenty-one [21] calendar days following acceptance of the works	
a) Waste disposal receipts	



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APPENDIX B3: APPROXIMATE WATER DEPTH

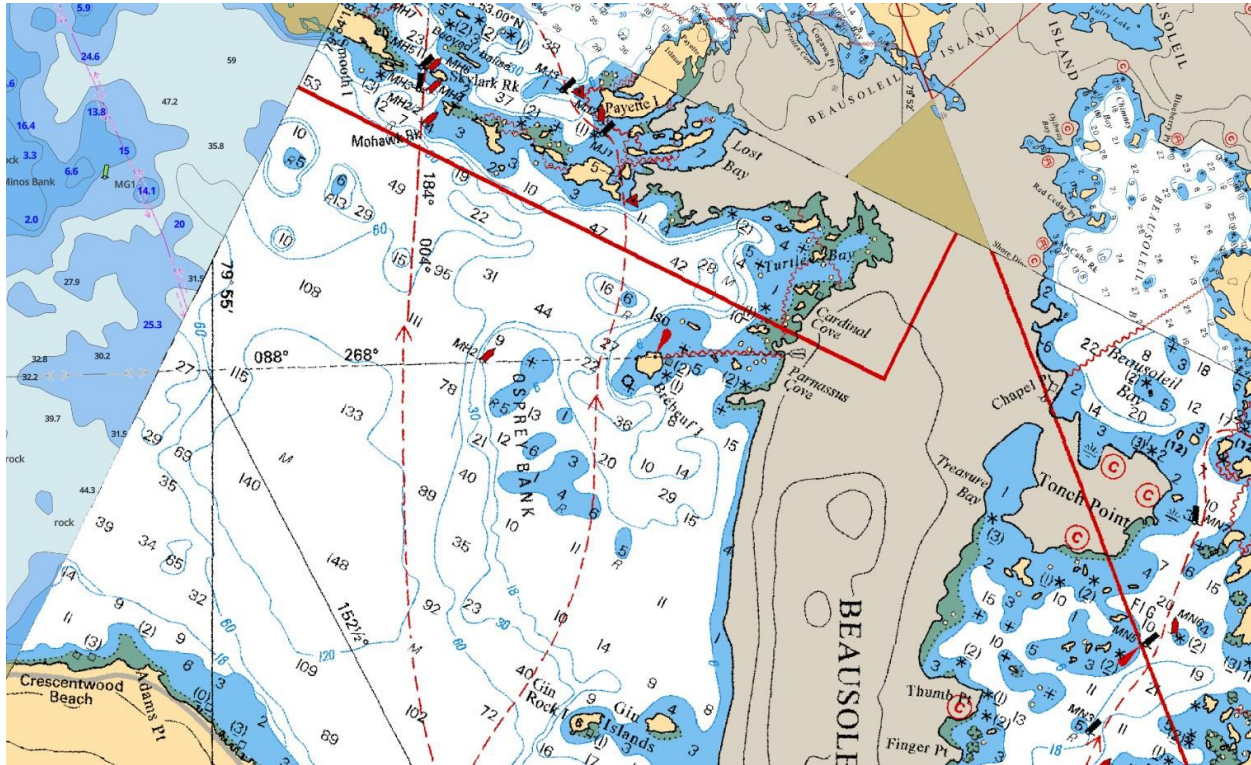


Figure 4: Approximate water depths in Restoule Lake. All depths are shown in meters