

Town of Poland



Request for Proposals Pedestrian Bridge

The Town of Poland is requesting bid proposals for design and construction of a pedestrian bridge. The bridge will be built over the Waterhouse Brook Dam. Companies submitting bids must submit them in sealed envelopes with **“Pedestrian Bridge Bid”** clearly printed on the exterior. Proposals must include vendor’s name, address, phone(s), contact person, and total cost. The enclosed bid form must be used, and bidders must observe all required state and federal laws and policies.

All inquiries regarding bids should be directed to the Town Manager at (207) 998-4601; email mgarside@polandtownoffice.org. Proposals must be delivered and clearly marked **“Pedestrian Bridge Bid”** to Town Manager, Town of Poland, 1231 Maine Street, Poland, ME, 04274 or by email at mgarside@polandtownoffice.org no later than **11:00am, Thursday, May 2, 2019**, at which time they will be opened and read publicly in the Town Office conference room. The Board of Selectpersons will consider proposals on Tuesday, May 7, 2019 at 7:00pm in the Town Office conference room. The Town of Poland reserves the right to reject any or all bids.

The Poland Conservation Commission desires to put a pedestrian bridge over the top of the Waterhouse Brook Dam. The project is a design/build with the successful bidder producing a design stamped by an engineer, construction of the bridge offsite, and ultimate installation of the bridge, steps and associated railing. A concept drawing is included as part of this package.

The bridge would be approximately 30’ long, between 3’ and 4’-6” wide and incorporate steps on either end. Railings need to extend past the end of the bridge on the downstream side to the beginning of the steps and be anchored to granite blocks that are part of the dam structure.

The intent is to have the bridge prefabricated such that it can be transported to the site and lifted and placed onto concrete footings that the contractor will construct.

Steps would need to be fitted and installed after the bridge is in place.

Pedestrian bridge requirements and specifications are as follows:

- All welds must be performed by welders with AWS D1.2 welding code certification
- Manufacturers must warrant their proposed solution for a minimum of twenty years
- Decking material for the pedestrian bridge must be made from glass reinforced polypropylene or glass reinforced polyethylene and contain UV inhibitors. Decking material must have an open surface of no less than 45%. All decking fasteners must be stainless steel. No decking material used shall contain wood flour, rice hulls, or other organic product.
- Manufacturer must demonstrate live load capacity of 160psf uniform load over thirty foot free-span (100psf pedestrian plus 60psf snow load), with deflection less than $L/360$, and wind load capacity of 40psf. Load requirements for approved equal manufacturer must be certified by a Professional Engineer licensed in the State of Maine. Design must follow the concept drawing included in this RFP
- Surface finish of all aluminum framework must be sandblasted, primed, and powder coated with at least two finish coats of color specified by owner (Town of Poland). Wood or steel may be used for construction
- Design must be made modular to be hand carried to sight with minimal disturbance to the environment. Approved equal structure and access stairs or ramps must be designed to deliver and install within a 48-hour window, excluding footings, to minimize public disturbance.
- Approved bidder must be able to manufacture, powder coat, and install this structure complete within 100 calendar days of receipt of a signed contract
- Construct pedestrian bridge concrete footing
- Build steps/approach to the bridge – wood, steel, or aluminum.
- Conduct site visit(s) as required
- Construction to occur between July 14 and October 2, 2019

LIABILITY INSURANCE – Successful Bidder must agree to procure and maintain at its expense, Commercial General Liability insurance for protection from claims under workers’ compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any other such employees, and from claims for damages because of injury to or destruction of property including loss of use resulting therefrom, which may arise from the performance of services hereunder. The minimum amounts of coverage are:

Type of Insurance	Each Occurrence	Aggregate
General Liability – Combined Bodily Injury and Property Damage	\$1,000,000	\$2,000,000
Automobile Liability – Combined Bodily Injury and Property Damage	\$1,000,000	
Umbrella/Excess Liability	\$1,000,000	\$1,000,000
Worker’s Compensation & Employer’s Liability	\$500,000 (Each Accident) \$500,000 (Disease Policy Limit) \$500,000 (Disease Each Employee)	

Each such certificate shall list the Town as an additional insured and contain a statement of the insurer’s obligation to notify the Town at least fifteen (15) days prior to cancellation of any policy covered there under. The Town shall be furnished with a Certificate of Insurance. In the event the Town is required to defend itself, the Successful Bidder shall reimburse the Town’s costs, including reasonable attorneys’ fees for defense of such liabilities which arise out of the Successful Bidder’s negligence. In any claim which may arise as a result of intentional or negligent acts or omissions of the Successful Bidder, the Comprehensive General liability insurance policy provided by successful Bidder shall be deemed primary protection against such claims and the Town shall not be called upon to contribute to a loss otherwise payable by the Successful Bidder’s insurer due to its insured’s act or omission.

INDEMNIFICATION – To the fullest extent permitted by law, Successful Bidder does agree to defend, indemnify and hold harmless the Town, its officers, agents and employees, from and against all claims, damages, losses or expenses, just or unjust, including but not limited to costs of defense, arising out of or resulting from the performance of services hereunder, provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent act or omission of Successful Bidder, its officers, agents or employees, anyone directly employed by it, or anyone for whose act it may be liable, except to the extent that said claim, damage, loss or expense is caused by the Town, its officers, or employees.

Pedestrian Bridge Official Bid Form

COMPANY NAME: _____

ADDRESS: _____

PHONE NUMBER(S): _____

EMAIL: _____

CONTACT PERSON: _____

Include proof of standard liability insurance, which names the Town of Poland as an additional insured in an amount no less than \$1,000,000.

A. Description of how the project will be done.

B. TOTAL NET PRICE FOR ALL LISTED WORK: \$ _____

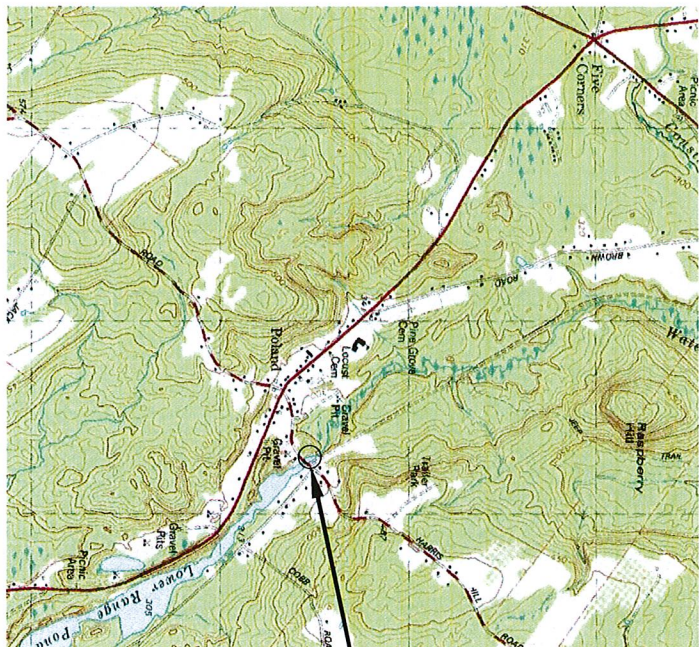
C. Estimated Date of Commencement: _____

D. Guaranteed Completion Date: **October 2, 2019**

The Town of Poland reserves the right to reject any or all bids in whole or in part as it is deemed in the best interest of the Town, renegotiate any contract and waive any informality which does not compromise the actual bid.

TOWN OF POLAND WATERHOUSE BROOK DAM BRIDGE

POLAND, MAINE
PROJECT NO. 18-59

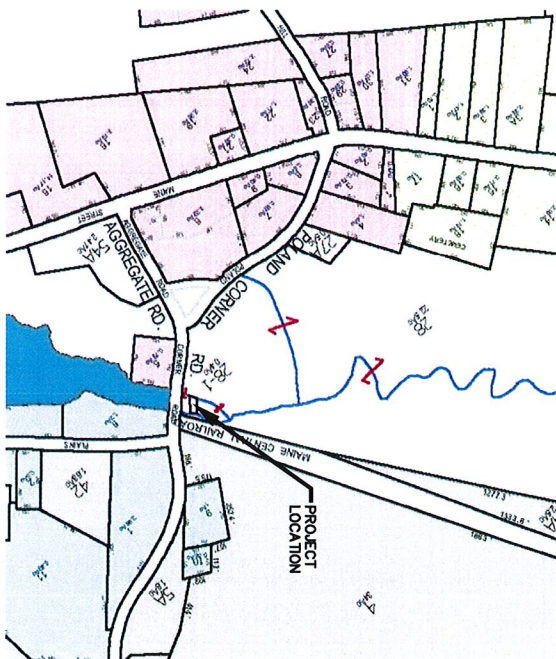


USGS LOCATION MAP



PROJECT LOCATION

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
0-1	TITLE SHEET
0-2	NOTES AND SCHEDULES
S-1	BRIDGE PLAN & ELEVATION
S-2	BRIDGE SECTION & DETAILS



TAX MAP #11



PROJECT LOCATION

PROPERTY INFORMATION
 OWNER: TOWN OF POLAND
 ADDRESS: 1231 LAKE STREET
 POLAND, ME 04278
 MAP/LOT: 11/26, 26-1
 ZONING: LIMITED COMMERCIAL
 SETBACKS: NO CHANGE

PRELIMINARY
FOR REVIEW ONLY

NOT FOR CONSTRUCTION

SHEET TITLE: TITLE SHEET		DESIGNED BY: BJB		<table border="1"> <tr> <td>PROGRESS SET</td> <td>3.3.19</td> <td>BJB</td> </tr> <tr> <td>CONCEPT DESIGN</td> <td>01.02.19</td> <td>BJB</td> </tr> <tr> <td>SUBMISSION</td> <td></td> <td></td> </tr> </table>		PROGRESS SET	3.3.19	BJB	CONCEPT DESIGN	01.02.19	BJB	SUBMISSION		
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BAKER DESIGN CONSULTANTS
Civil, Marine, and Structural Engineering

7 Spruce Road • Freeport • Maine • 04032 • 207-866-9724 • info@bakerdesignconsultants.com

GENERAL NOTES

1. THE CONTRACTOR SHALL BE COVERED BY THE CONSTRUCTION SAFETY RULES AS ADOPTED BY THE STATE BOARD OF CONSTRUCTION SAFETY ADOPTED AND SUBJECT TO THE SAFETY AND HEALTH REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AS PROMULGATED BY THE US DEPARTMENT OF LABOR CO
2. ALL PAVED AREAS DISTURBED SHALL BE PATCHED WITH BITUMINOUS UNLESS OTHERWISE NOTED
3. ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE PATCHED BY THE OWNER OR THEIR REPRESENTATIVE
4. LOADED SERVED, FERTILIZED AND MULCHED UNLESS OTHERWISE DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE
5. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES
6. TOPSOIL STRIPPED AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNDESIRABLE SOILS SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION OFF SITE

UTILITY NOTES

1. NO DISRUPTION TO THE EXISTING UTILITIES ADJACENT THE PROJECT SITE SHALL BE ALLOWED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES
2. ANY TEMPORARY ELECTRIC SERVICE IF REQUIRED DURING THE DURATION OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR
3. THE PROJECT AREA/UNIT CONTACT WAS BEING MADE WITH OIG SAFE AND ALL UTILITIES TO LOCATE ANY EXISTING POWER TELEPHONE, CABLE TV, WATER OR OTHER UNDERGROUND SERVICES ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UTILITIES WILL BE IDENTIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DISTURBED DURING CONSTRUCTION

EROSION CONTROL NOTES

1. APPLICATION OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE EROSION CONTROL AND SPECIFICATIONS OF THE CURRENT MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION BEST MANAGEMENT PRACTICES
2. SLOTTED FENCE SHALL BE INSTALLED BEFORE ANY EXCAVATION TAKES PLACE UNLESS SHOWN OR NOTED OTHERWISE
3. METAL EROSION CONTROL MESH ON ALL PROPOSED SLOPES 2:1 OR STEEPER UNLESS SHOWN OR NOTED OTHERWISE
4. ALL EROSION CONTROL MEASURES, SEEDING AND MULCHING SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DAMAGE
5. SEEDED AND MULCHED AREAS SHALL BE MAINTAINED UNTIL FINAL GRASS COVER IS ESTABLISHED
6. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF GRADING OPERATIONS AND ESTABLISHMENT OF ACCEPTABLE GROUND COVER
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGH CONSTRUCTION

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF ALL MATERIALS FROM THE EXISTING BRIDGE INCLUDING BUT NOT LIMITED TO TIMBER SUPERSTRUCTURE, TIMBER PIERS, STEEL HARDWARE, DESKTOPS, AND OTHER MATERIALS. ALL DEMOLITION AND DISPOSAL SHALL BE IN ACCORDANCE WITH MAINE DEP REQUIREMENTS

SPECIFICATIONS

1. ASH TO LIFT GUIDE SPECIFICATIONS FOR DESIGN OF PIERSTREAM BRIDGES
2. ASH TO LIFT GUIDE DESIGN SPECIFICATIONS
3. MAINE DOT BRIDGE DESIGN GUIDE

DESIGN LOADING

1. PERESTRAIN LOAD 80PP UNIFORM

STRUCTURAL NOTES

1. CAST-IN-PLACE CONCRETE
 - a. MIX DESIGN
 - a. LIGHT CLASS A, $f_c = 4,250$ PSI
2. MAINBENCH TO REINFORCEMENT = 3"
3. REINFORCING STEEL
 - a. ASTM A705 GRADE 60, $f_y = 60,000$ PSI

STRUCTURAL STEEL

1. ALL METAL ITEMS TO BE A36 STEEL, HOT-DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED
2. MISCELLANEOUS METALS AND FASTENERS
3. ALL FASTENERS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED
4. ALL BOLTS TO BE A325 UNLESS OTHERWISE NOTED
5. ALL BOLTS TO BE HEAVY HEX UNLESS OTHERWISE NOTED
6. ANCHOR BOLTS SHALL CONFORM TO ASTM F-1554 AND SHALL BE GRADE 36



TIMBER STRUCTURAL MEMBERS

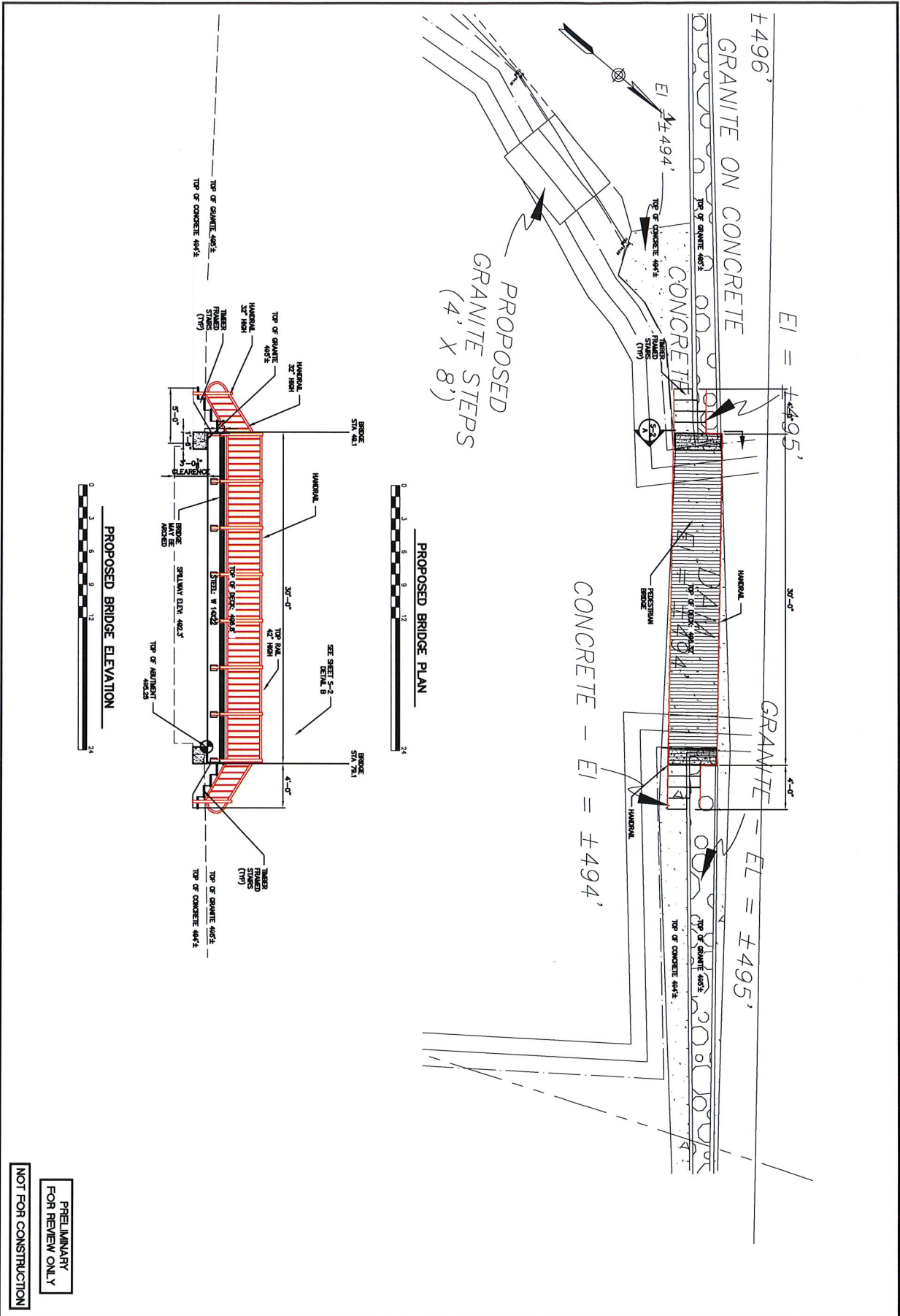
1. REFER TO TIMBER SCHEDULE ON THIS SHEET
2. ALL EXPOSED EDGES SHALL BE PLANED OR SANCED TO PROVIDE SMOOTH SURFACE FREE OF ROUGH EDGES OR DEFECTS
3. ALL EXPOSED FASTENERS SHALL BE COUNTERSUNK ON WALKING SURFACE AND PEDESTRIAN HANDRAIL

TIMBER SCHEDULE

Timber Size	Location	% Moisture at Treatment	Treatment Type	Grading	Surface Finishing	Minimum Length
2 x 10	Blocking	19%	ACO 0.0	No. 1	S4S	As required for placement without any nail joints
2 x 6, 2 x 8	Stringers	19%	ACO 0.0	No. 1	S4S	
2 x 6, 2 x 8	Stringers	19%	ACO 0.0	No. 1	S4S	
2 x 8	Bridge Decking	19%	ACO 0.0	No. 1	S4S	

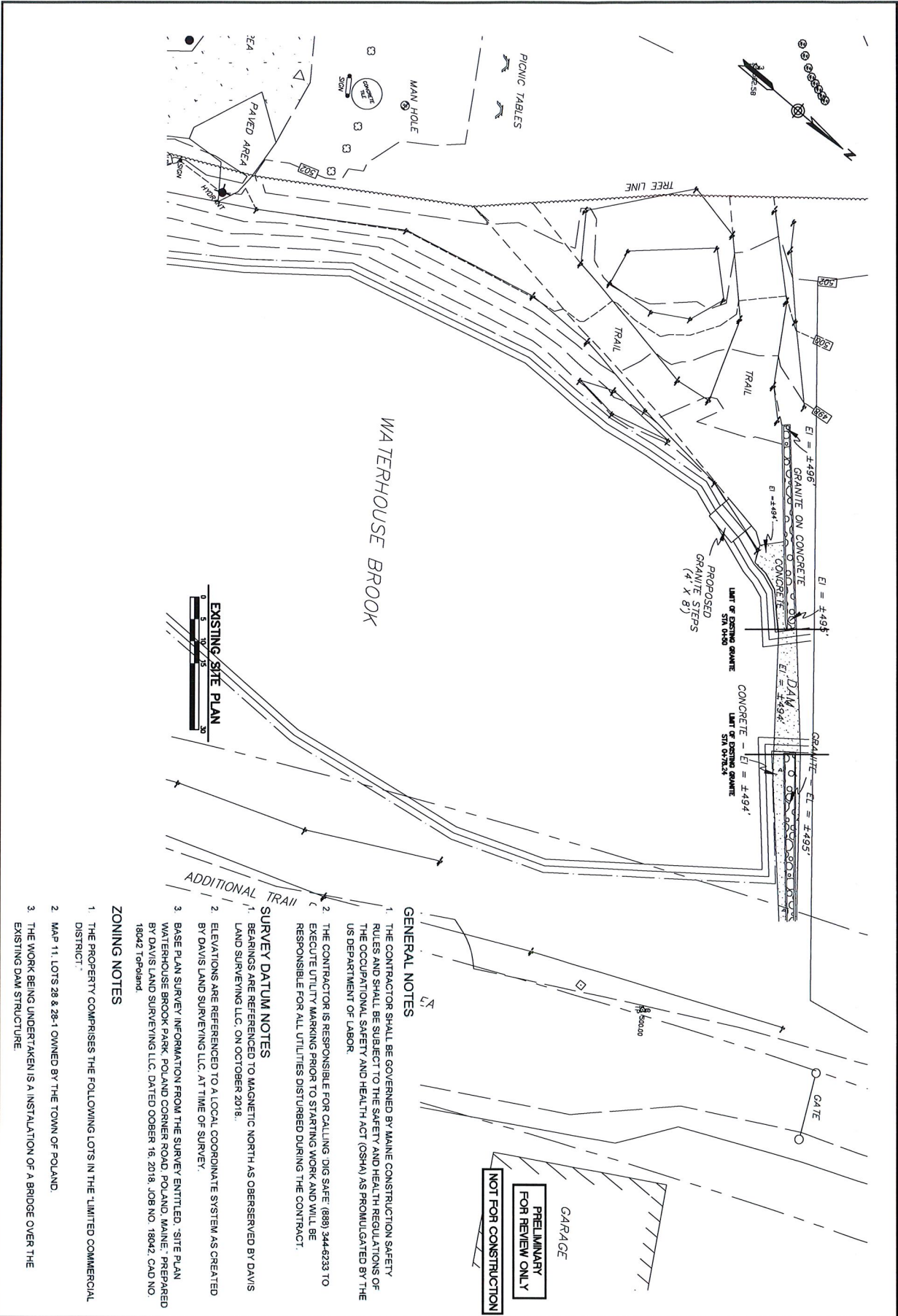
Chromated Copper Arsenate (CCA)
 Quantities shall include sufficient material to include blocking and splices (where authorized).
 R = Rough Sawn, S4S = Finished Two Side S4S = Finished all Sides

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	<p>DESIGNED BY: BJB DRAWN BY: TJC CHECKED BY: BJB SCALE: AS SHOWN</p>
<p>G-2</p>	<p style="text-align: center;">NOTES & SCHEDULE</p> <p>SHEET TITLE: PROJECT: TOWN OF POLAND WATERHOUSE BROOK DAM BRIDGE POLAND, MAINE</p> <p>SHEET NO.: 18/7 REV: B</p>
<p>DATE: JAN 2018 CONTRACT NO.: SHEET NO.: 18/7</p>	<p>NO. DATE INT.</p> <p>A PROGRESS SET 3.3.19 BJB</p> <p>B CONCEPT DESIGN 01.02.19 BJB</p> <p>NO. SUBMISSION</p>



<p>NOT FOR CONSTRUCTION</p> <p>PRELIMINARY FOR REVIEW ONLY</p>		<p>BRIDGE PLAN & ELEVATION</p>		<p>DESIGNED BY: BJB</p>	
<p>DATE: JAN 2019</p>		<p>PROJECT: TOWN OF POLAND WATERHOUSE BROOK DAM BRIDGE</p>		<p>DRAWN BY: TJC</p>	
<p>CONTRACT NO. 18-59</p>		<p>POLAND, MAINE</p>		<p>CHECKED BY: BJB</p>	
<p>SHEET NO. S-1</p>		<p>SCALE: AS SHOWN</p>		<p>SCALE: AS SHOWN</p>	
<p>REV. 1</p>		<p>REV. 2</p>		<p>REV. 3</p>	
<p>NO.</p>		<p>NO.</p>		<p>NO.</p>	
<p>DATE</p>		<p>DATE</p>		<p>DATE</p>	
<p>INT.</p>		<p>INT.</p>		<p>INT.</p>	
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<p>INT.</p>		<p>INT.</p>		<p>INT.</p>	

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WATERHOUSE BROOK

EXISTING SITE PLAN

ADDITIONAL TRAIL

NOT FOR CONSTRUCTION
PRELIMINARY FOR REVIEW ONLY
GARAGE

GENERAL NOTES

1. THE CONTRACTOR SHALL BE GOVERNED BY MAINE CONSTRUCTION SAFETY RULES AND SHALL BE SUBJECT TO THE SAFETY AND HEALTH REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AS PROMULGATED BY THE US DEPARTMENT OF LABOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR CALLING DIG SAFE (888) 344-6233 TO EXECUTE UTILITY MARKING PRIOR TO STARTING WORK AND WILL BE RESPONSIBLE FOR ALL UTILITIES DISTURBED DURING THE CONTRACT.

SURVEY DATUM NOTES

1. BEARINGS ARE REFERENCED TO MAGNETIC NORTH AS OBSERVED BY DAVIS LAND SURVEYING LLC, ON OCTOBER 2018.
2. ELEVATIONS ARE REFERENCED TO A LOCAL COORDINATE SYSTEM AS CREATED BY DAVIS LAND SURVEYING LLC, AT TIME OF SURVEY.
3. BASE PLAN SURVEY INFORMATION FROM THE SURVEY ENTITLED, "SITE PLAN WATERHOUSE BROOK PARK, POLAND CORNER ROAD, POLAND, MAINE," PREPARED BY DAVIS LAND SURVEYING LLC, DATED OOBBER 16, 2018, JOB NO. 18042, CAD NO. 18042 Topoland.

ZONING NOTES

1. THE PROPERTY COMPRISES THE FOLLOWING LOTS IN THE LIMITED COMMERCIAL DISTRICT:
2. MAP 11, LOTS 28 & 28-1 OWNED BY THE TOWN OF POLAND.
3. THE WORK BEING UNDERTAKEN IS A INSTALLATION OF A BRIDGE OVER THE EXISTING DAM STRUCTURE.

<p>SHEET TITLE: EXISTING SITE PLAN</p>		<p>DESIGNED BY: BJB DRAWN BY: TJC CHECKED BY: BJB SCALE: AS SHOWN</p>		<table border="1"> <tr> <td>B</td> <td>PROGRESS SET</td> <td>3.3.19</td> <td>BJB</td> </tr> <tr> <td>A</td> <td>CONCEPT DESIGN SUBMISSION</td> <td>01.02.19</td> <td>BJB</td> </tr> <tr> <td>NO.</td> <td></td> <td>DATE</td> <td>INT.</td> </tr> </table>	B	PROGRESS SET	3.3.19	BJB	A	CONCEPT DESIGN SUBMISSION	01.02.19	BJB	NO.		DATE	INT.
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<p>DATE: JAN 2019 CONTRACT NO.: 18042 SHEET NO.: REV 1</p>		<p>PROJECT: TOWN OF POLAND WATERHOUSE BROOK DAM BRIDGE POLAND, MAINE</p>														
<p>C-1</p>		<p>BAKER DESIGN CONSULTANTS Civil, Marine, and Structural Engineering 7 Spruce Road • Freeport • Maine • 04032 • 207-868-9724 • info@bakerdcs.com</p>														

DESIGN BASIS MEMO

Category	Parameter	Project Information / Criteria
General	Client	Town of Poland; Project Manager: Matt Garside, Town Manager; Conservation Commission Members
	Street Address	Town office- 1231 Main Street; Poland, ME
	Coordinates	44° 3'44.45"N, 70°23'21.28"W
	Tax Map/Lot	Map 11/28
	Zoning District	Limited Commercial
	Water Body	Waterhouse Brook
Elevations	Datum	Taken from Davis Land Survey provided by Town
Existing Structure	Dam	Refer to condition Report by MBP Consulting, Portland, Maine; dated December 2018.
Design Goals	Pedestrian Bridge Addition	<p>The Town desires a pedestrian bridge across the existing dam spillway to connect existing trails each side of the brook.</p> <p>Joe Neville PE designed a steel bridge but did not complete a design for approaches. The Town retained Baker Design Consultants to integrate survey, recommendations from the MBP Dam Condition Assessment and Neville bridge design into a drawing package that can be used by the Town to obtain permits and construction bids for the project.</p>
Regulatory Permitting	Maine Dept of Environmental Protection	NRPA PBR by Town.
	Town of Poland	Planning Board/ Shoreland approval by Town.
Material Selection (as directed by the Town)	Bridge	Steel framing with a timber deck. Aluminum sections may be substituted with design approval.
	Handrail	Steel with vertical balusters. Aluminum or wood sections may be substituted with design approval.
	Approach Stair	Timber stairs. BDC proposed concrete, but DEP said design did not meet NRPA PBR criteria. Aluminum sections may be substituted with design approval.

DESIGN BASIS MEMO

Category	Parameter	Project Information / Criteria
<p>Design Criteria (Subject to review and approval by Poland Code Enforcement Officer)</p>	<p>Bridge Design</p>	<p>Joe Neville PE- ASHTO Live Load = 90 PSF Guardrail Height- 42-inches OSHA compatible Handrail- 32-34 inches. Clear Width- Bridge (3 to 4.5-feet) Clearance above Spillway- 3-feet directed by the Town (Less than recommended by MBP Consulting for protection from debris. Vertical Alignment-Neville and BDC plans show flat alignment; Town has indicated an arch profile will be considered.</p>
	<p>Approaches</p>	<p>Based on DEP input, Town directed Baker Design Consultants to utilize available width which is constrained by existing downstream side granite crest blocks. This is less than BDC recommends but maintains integrity of dam structure.</p>
	<p>Compliance with American with Disabilities Act (ADA)</p>	<p>ADA bridge approach gradient and width are not practical at this location because of constraints by existing dam geometry and spillway clearance.</p>
	<p>Railing</p>	<p>Bridge approach railing on the dam crest is not provided as directed by the Town. The Town made this decision to preserve the character of the site and so as not to inhibit supervised use of the dam crest by school kids for waterside access</p>
	<p>Spillway Boom</p>	<p>The Town will design, install and maintain a floating boom upstream of the dam sluiceway to prevent swimmers and small watercraft approaching the spillway.</p>
	<p>Signage</p>	<p>The Town will post signs on the bridge and approaches to promote safe use of the crossing.</p>