Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BU[illegible]TION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 100116

This is to certify that PENDE ASSOCIATES INC /Po[illegible]nd Trai[illegible]rker

has permission to Build a 56' long x 4' wide pedes[illegible] footbr[illegible]

AT 470 RIVERSIDE ST CB[illegible]321 A004001

provided that the person or persons, fi[illegible] or co[illegible]on ac[illegible]ting this permit shall comply with all of the provisions of the Statutes of Ma[illegible]e and of the O[illegible]ces of the City of Portland regulating the construction, maintenance and use[illegible] buildings and stru[illegible]res, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Noti[illegible]tion o[illegible]spectio[illegible]nust be give[illegible]d writte[illegible]ermissio[illegible]rocured befo[illegible]his bui[illegible]g or pa[illegible]ereof is lath[illegible] or oth[illegible]ed-in. 24 HOU[illegible]NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

PERMIT ISSUED

FEB 2 3 2010

CITY OF PORTLAND

Department Name

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____

Jeanie Bonke 2/19/10

Director Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
10-0116		321 A004001

Location of Construction:	Owner Name:	Owner Address:	Phone:
470 RIVERSIDE ST	PENDE ASSOCIATES INC	42 SOUTH ST	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Portland Trails/Jaime Parker	305 Commercial Street Portland	2073296180
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Additions - Commercial	RP2

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Trail	Pedestrian Footbridge - build a 56' long x 4' wide pedestrian footbridge	$215.00	$12,000.00	5

FIRE DEPT: ☐ Approved ☐ Denied

Signature:

INSPECTION:
Use Group: N/A Type: Trail Bridge
IBC-2003
Signature: JMB 2/19/10

Proposed Project Description:
Build a 56' long x 4' wide pedestrian footbridge

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
ldobson	02/09/2010

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

PERMIT ISSUED
FEB 23 2010
CITY OF PORTLAND

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland Stream Protection	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☒ Site Plan exemption already signed 10/28/09	☐ Approved	☐ Approved w/Conditions
Maj ☐ Min ☐ MM ☐	☐ Denied	☐ Denied
Date: OK 2/10/10	Date:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
10-0116	02/09/2010	321 A004001

Location of Construction:	Owner Name:	Owner Address:	Phone:
470 RIVERSIDE ST	PENDE ASSOCIATES INC	42 SOUTH ST	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Portland Trails/Jaime Parker	305 Commercial Street Portland	(207) 329-6180
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Additions - Commercial	

Proposed Use:	Proposed Project Description:
Pedestrian Footbridge - build a 56' long x 4' wide pedestrian footbridge	Build a 56' long x 4' wide pedestrian footbridge

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 02/10/2010

Note: **Ok to Issue:** ☑

1) Best Management Practices shall be used when doing the footbridge installation to reduce erosion.

2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 02/19/2010

Note: **Ok to Issue:** ☑

1) Maintanence as required to keep walkway secure and stable

2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.

Comments:

2/10/2010-jmb: Left vcmsg for Jaime P for verification of chainlink fence on guardrail and fabricatior information.

2/12/2010-jmb: Returned Jaime P. Call, he will get the contact info for the fabricator and the fencing will be installed to minimize spaces less than 4".

2/12/2010-jmb: Left msg for Jim Griffith at Dock Works, Inc, the fabricator shop to see if it is registered.

2/18/2010-jmb: Spoke to Jim G., they are a certified welding shop with over 20 years experience, he gave me the number to contact Barney B. The engineer.

2/19/2010-jmb: Spoke with Barney about the fabrication process, he says the design exceeds industry standards and the SI would cover checking the license of the certified welder and the longevity of the shop. Also spoke with Dale Dyer of Custom Float Services who will be assisting PT in the location and anchoring of the walkway. He has checked the soils and is confident the silty clay is optimum for the helical anchors. He dosen't anticipate much movement over time and sees maintenance as minor over several years. Also there is no erosion at the location of the walkway bearing.

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

__X__ **Footing/PadLocation Inspection: Prior to setting the walkway bridge**

__X__ **Final inspection required at completion of work.**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee	Date
Signature of Inspections Official	Date 2/19/10

CBL: 321 A004001 **Building Permit #:** 10-0116

General Building Permit Application

Location/Address of Construction: 470 Riverside St.		
Total Square Footage of Proposed Structure/Area: 224	Square Footage of Lot: 13.07 Acres	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 321 A004 001	Applicant *must be owner, Lessee or Buyer* Name: Portland Trails Address: 305 Commercial City, State & Zip: 04101	Telephone: 775-2411
Lessee/DBA (If Applicable) Portland Trails Trail Easement (attached)	Owner (if different from Applicant) Name: Pende Assoc. Inc. Address: 42 South St. City, State & Zip: Yarmouth 04096	Cost Of Work: $ 12,000 C of O Fee: $ 75.00 Total Fee: $ 185.00

Current legal use (i.e. single family) _____

If vacant, what was the previous use? _____

Proposed Specific use: Pedestrian Footbridge

Is property part of a subdivision? yes If yes, please name 470 Riverside Condo units

Project description:

56' Long x 4' wide-

Contractor's name: Portland Trails

Address: 305 Commercial Street

City, State & Zip 04101 Telephone: 775-[illegible]

Who should we contact when the permit is ready: Jaime Parker Telephone: 329 6180

Mailing address: [illegible]

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

RECEIVED
FEB - 9 2010
Dept. of Building Inspections
City of Portland Maine

Signature: Jaime Parker Date: 1/22/10

This is not a permit; you may not commence any work until the permit is issued.

Application for Exemption from Site Plan Review

Portland, Maine

Department of Planning and Urban Development, Planning Division and Planning Board

PROJECT NAME: Presumpscot River Trail

PROJECT ADDRESS: 470 Riverside ~~Drive~~ Street, 636 Riverside ~~Drive~~ Street

PROJECT DESCRIPTION: **(Please Attach Sketch/Plan of Proposal/Development)**

Primitive trail

CHART/BLOCK/LOT: 321-A-13, 322-A-1

CONTACT INFORMATION:

OWNER/APPLICANT		CONSULTANT/AGENT	
Name:	Portland Trails	Name:	
Address:	305 Commercial St Portland, ME	Address:	
Zip Code:	04101	Zip Code:	
Work #:	207 775-2411	Work #:	
Home #:		Home #:	
Fax #:	207 871-1184	Fax #:	
E-mail:	nan@trails.org	E-mail:	

RECEIVED
OCT 27 2009
City of Portland
Planning Division

Criteria for Exemptions:
(See Section 14-523 (4) on page 2 of this application)

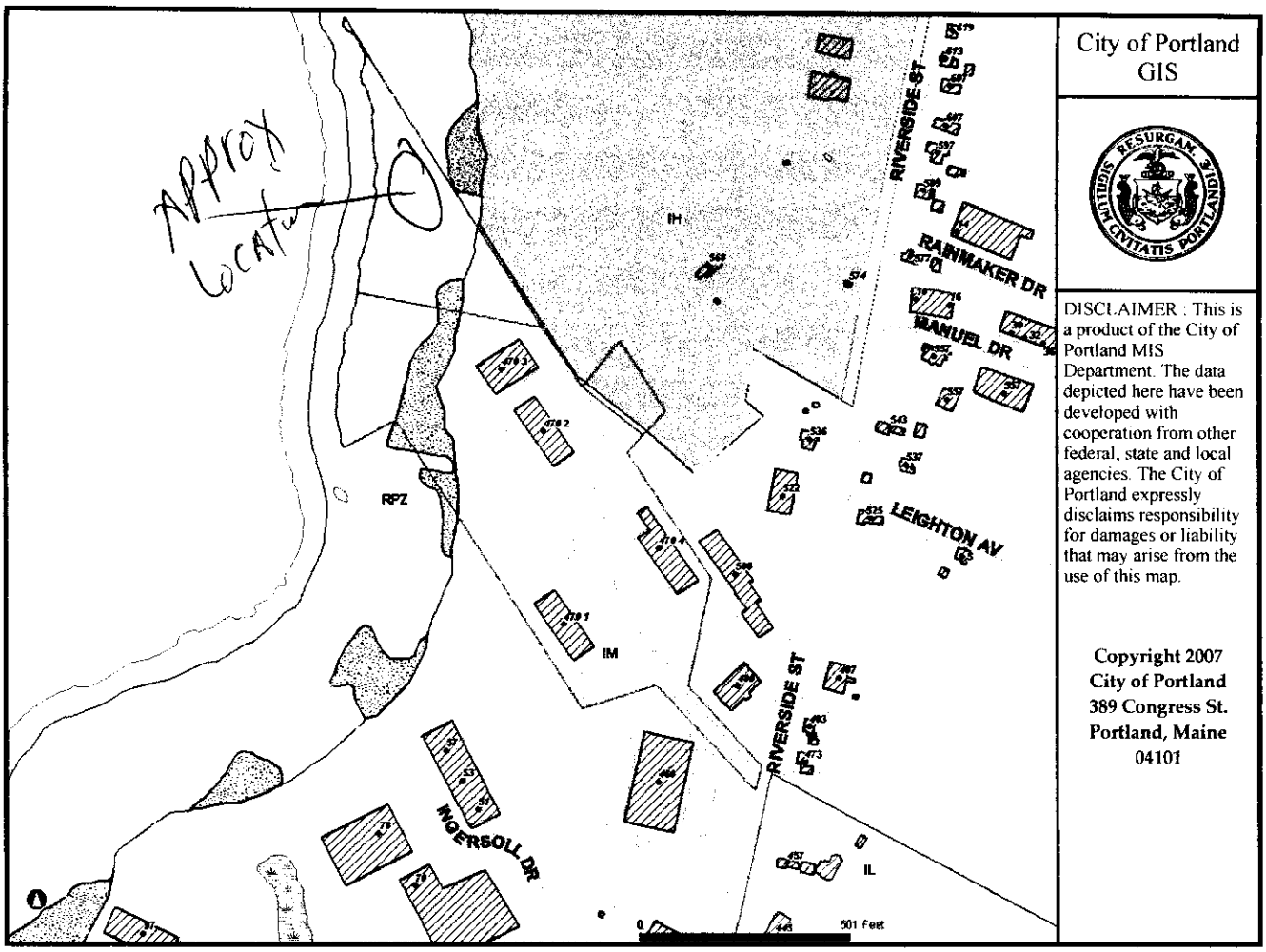
		Applicant's Assessment Y(yes), N(no), N/A	Planning Division Use Only
a)	Is the proposal within existing structures?	N/A	
b)	Are there any new buildings, additions, or demolitions?	N/A	
c)	Is the footprint increase less than 500 sq. ft.?	N/A	
d)	Are there any new curb cuts, driveways or parking areas?	N/A	
e)	Are the curbs and sidewalks in sound condition?	N/A	
f)	Do the curbs and sidewalks comply with ADA?	N/A	
g)	Is there any additional parking?	N/A	
h)	Is there an increase in traffic?	Y	
i)	Are there any known stormwater problems?	NO	
j)	Does sufficient property screening exist?	Y	
k)	Are there adequate utilities?	N/A	

Planning Division Use Only Exemption Granted X Partial Exemption ___ Exemption Denied ___

The applicant is required to obtain a building permit from Code Enforcement & Inspections for the construction of the bridge structure. Erosion Control measures must be maintained around all disturbed areas.

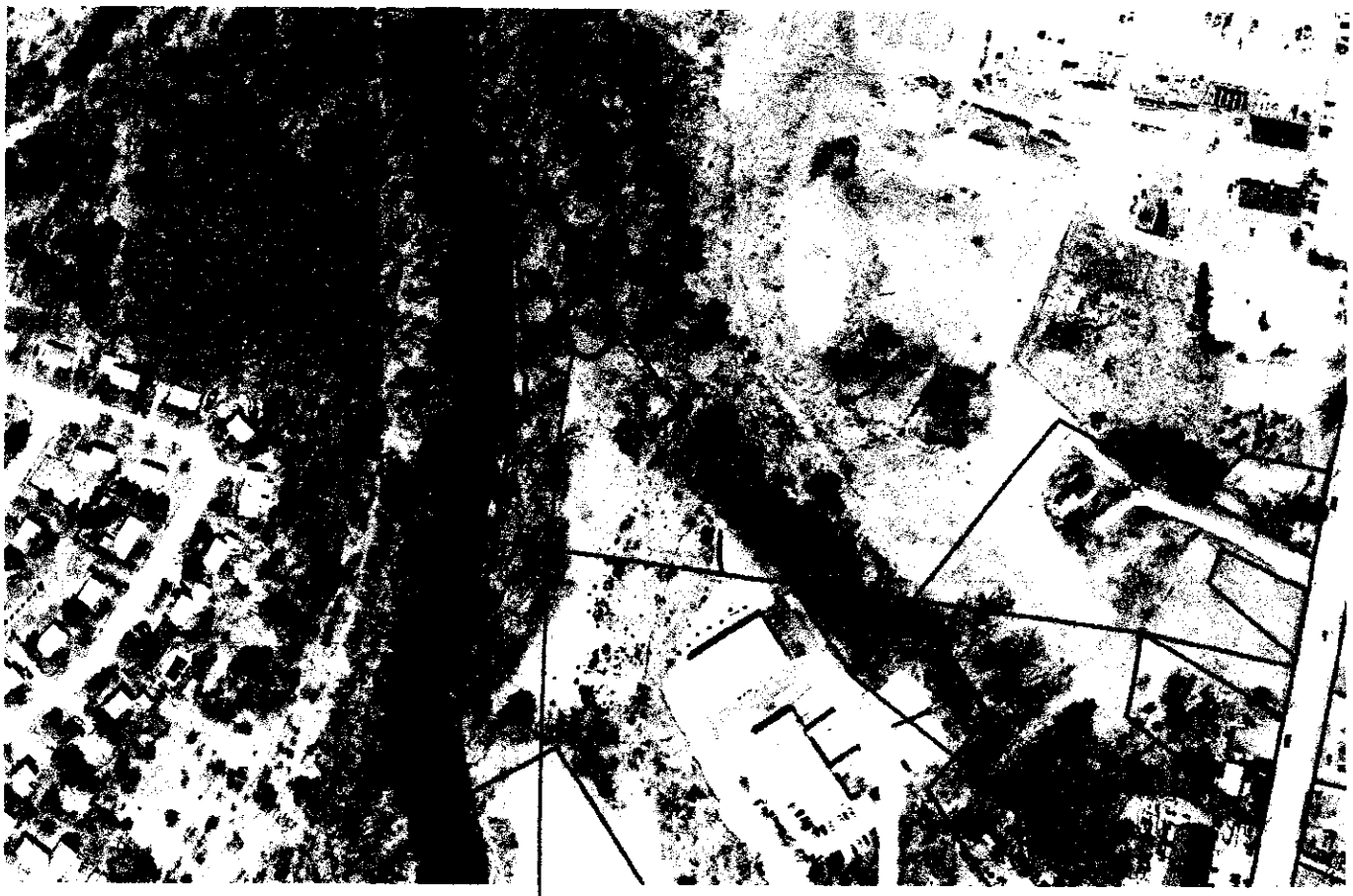
Planner's Signature: [signature] Date 10/28/09

~ Original - Planning Division ~ ~ Copy - Inspections Division and Applicant ~



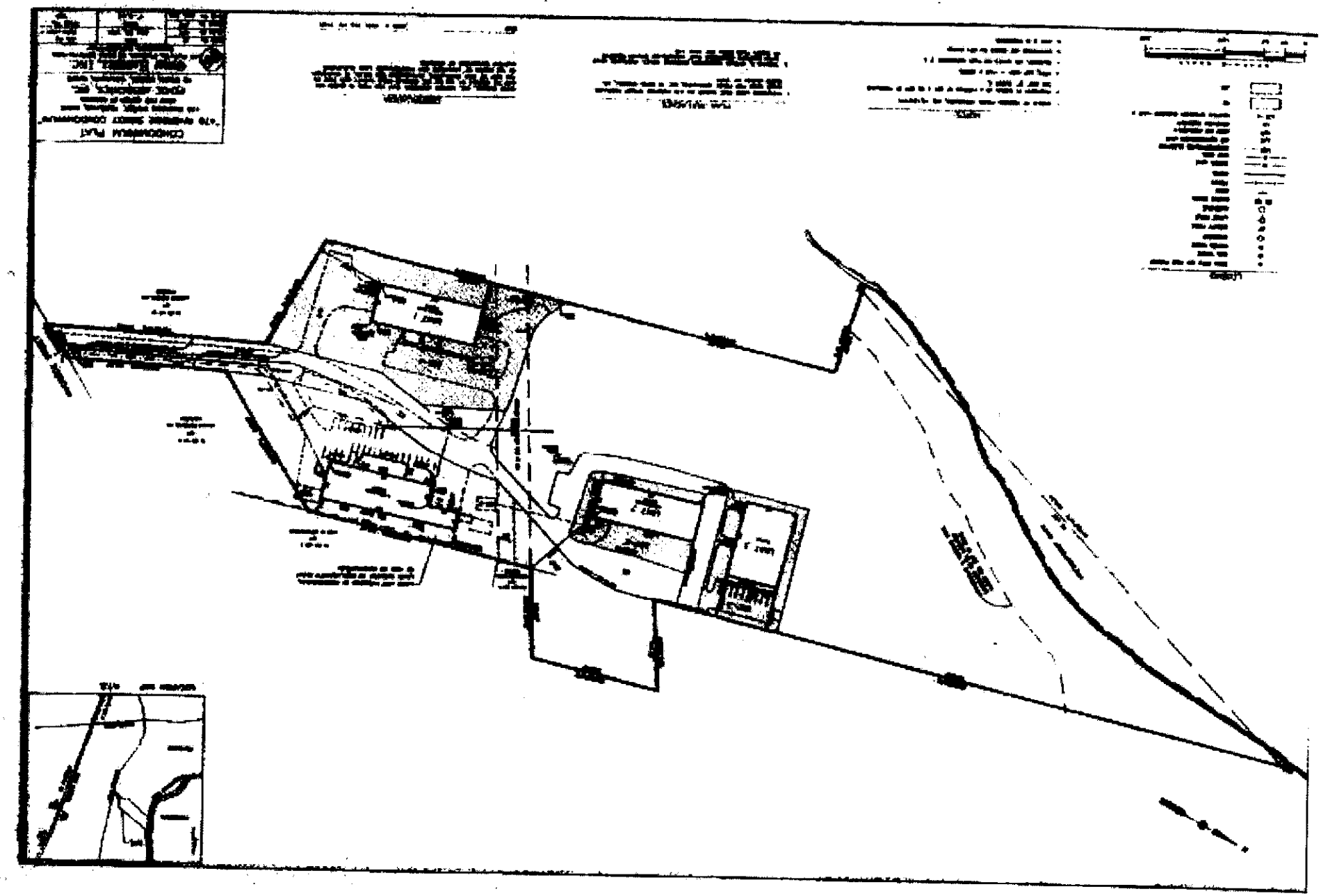
City of Portland GIS

DISCLAIMER : This is a product of the City of Portland MIS Department. The data depicted here have been developed with cooperation from other federal, state and local agencies. The City of Portland expressly disclaims responsibility for damages or liability that may arise from the use of this map.



Bridge Location

CBL 321 A004 001



BAKER DESIGN CONSULTANTS
Civil, Marine and Structural Engineering

January 21, 2010

Jim Griffiths
Dock Works, Inc.
49 Water St.
PO Box 130
Winterport,ME 04496

Subject: 4' x 56-ft Structural Aluminum Span with Timber Deck and Timber Rail

Dear Jim,

As requested I have completed a structural capacity check of the 4-foot wide x 56-foot long Structural Aluminum Span designed by Henri Gignoux for Dock Works, Inc. This section is intended for use as a marine ramp or pedestrian superstructure span supported at each end with a maximum uniformly distributed vertical live load of 75 psf applied at the walkway surface.

The outline below provides a summary of the project specifications, the fabrication documents reviewed and a description of the structural analysis completed by this office to provide an independent check on the structure capacity.

Project Specifications:

- Welded 6061-T6 Aluminum subframe
- Welded 6061-T6 Aluminum railing
- Welded 6061-T6 Aluminum compression arch
- All Hardware to be Aluminum or Stainless Steel
- 34-inch clear walkway
- Timber:
  - Decking and Handrail: 5/4-inch x 6-inch Port Orford Cedar
  - Handrail Cap: 5/4-inch x 3-inch Port Orford Cedar

11 Stony Brook Lane, Yarmouth, Maine 04096 T: (207) 846-9724 F: (207) 846-3620 Email: bbaker@maine.rr.com

Fabrication Documents (Provided by Henri Gignoux):

- Drawings Entitled (4'x 56' Heavy Duty Commercial Ramp, Arch Style with Port Orford Decking and Rails
    - 12/16/09 PML-4x56-HDCOM-RMP-1 "Typical Views of Ramp"
    - 12/16/09 PML-4x56-HDCOM-RMP-2 "Section View Detail at Mid-Ramp".
    - 12/16/09 PML-4x56-HDCOM-RMP-5 "Bill of Materials".

Structural Analysis to check design (Completed by Baker Design Consultants):

The following design reference and software was used to analyze the structure and review conformance with industry standards.

- Aluminum Design Manual-"Specifications and Guidelines for Aluminum Structures"; The Aluminum Association
- STAAD.Pro 3-D finite element Software; Research Engineers International

The structure was evaluated for Dead and Live Load cases, separately and in combination to investigate maximum stresses in the structural members under service conditions. Load cases included consideration of torsion due to loss of support at one corner of the structure. The midspan deflection of the structure under maximum design load (Dead + 75 PSF Live) is 1.8-inches or Span/373.

Based on this structural analysis, the aluminum structure as designed meets or exceeds the specification intent in conformance with the allowable material stresses published by the Aluminum Association.

Note that the Owner of an installed 4' x 56-ft Structural Aluminum Span should consider the following to ensure intended performance.

- Installation and handling- The span is designed to be supported at each end. Lifting and installing methodology should be reviewed to avoid overstressing individual members.
- Severe weather exposure- Procedures to restrict access and/or remove the structure in advance of severe weather or rising water should be in place and activated to avoid structural damage and to ensure user safety.
- Support Connections –The structure is intended to be simply supported at each end. One support should be pinned to prevent longitudinal and transverse movement. The other end should allow for movement in the longitudinal direction to avoid unintended stresses on the structure.
- Timber Decking and Handrail Substitution- These components are not part of the main structural frame (that includes aluminum arch and bottom chord members). Substitutions can be made for

the handrail and decking provided these components are adequately sized for the applied loading as determined for respective spans between rail posts and transverse deck support frames. The overall capacity of the 4' x 56-ft Structural Aluminum Span will not be impacted provided the material is equal to or lesser than the cumulative weight of the Port Orford cedar components (~770 lbs).

Please contact me with any questions or review requirements that develop during fabrication or installation.

Sincerely,

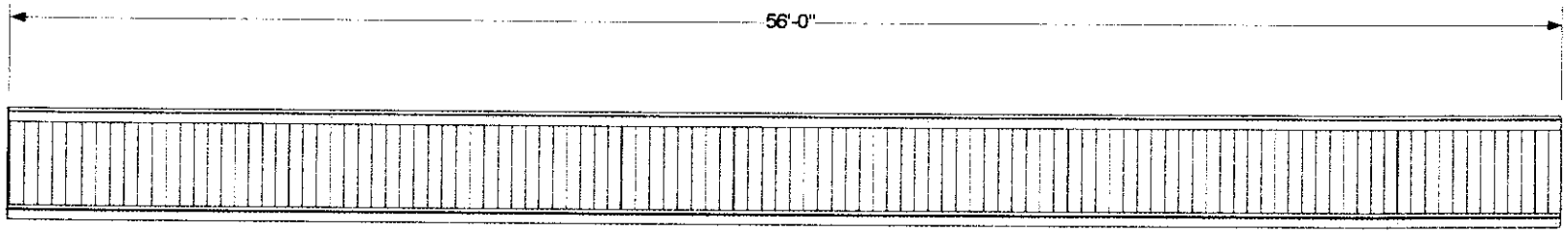
BAKER DESIGN CONSULTANTS, Inc.

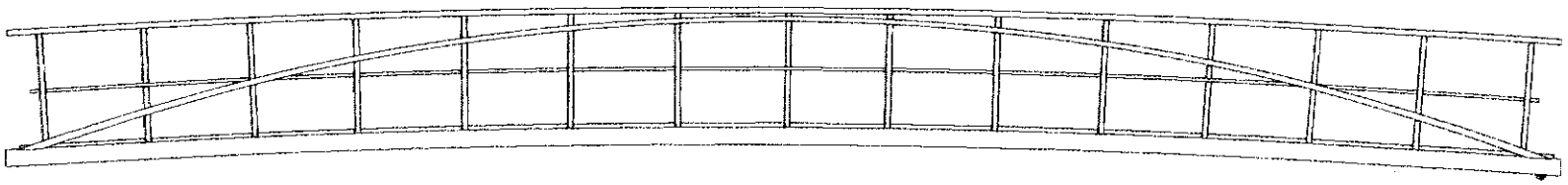
Barney Baker PE
Principal

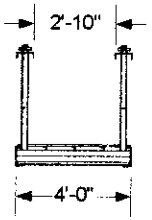
846-9724

BJB

Matt Davis- Custom Floats
Henry Gignoux
JN: 10001







NOTES:
Welded aluminum 6061-T6 sub-frame
Decking and Handrails: 5/4" x 6" Port Orford Cedar
Hand Rail Cap: 5/4" x 3" Port Orford Cedar
All Hardware to be aluminum or stainless steel

Dock Works, Inc.
PO Box 130
Winterport, ME 04496

4' x 56' Heavy Duty Commercial Ramp, Arch Style with Port Orford Decking and Rails

Typical Views of Ramp

DRAWN BY		SIZE	FSCM NO	DWG NO	REV
HENRI GIGNOUX				PML-4x56-HDCOM-RMP-1	2
DATE	FILENAME	SCALE	1 : 75	**Load Rating 75 lb/ft²**	SHEET 2
12/16/2009	4 X 56 HDCOM POC RAMP.VSD				

4' x 60' HD Commercial Ramp

Member	Description	Quantity	Finished Length (in)	Depth (in)	Width (in)	Area (in^2)	Weight (lbf/ft)	Total Length (Ft)	Weight (lbf)	Cutting Notes
Main Stringer	8 x 0.190 Aluninum Assoc. Channel	2	672.0	8	3.00	3.49	4.10	112.0	459.7	Each Stringer made up of two 25' sections and a 10' section. Splices staggered for each side.
Stringer Splice Plate	7" x 12" x 0.5" Plate	4	12.0	0.5	7.00	3.50	4.12	4.0	16.5	
Arch	C7 x 0.170 American Aluminum Channel	2	676.0	7	2.75	2.69	3.16	112.7	356.4	Each Stringer made up of two 25' sections and a 10'-4" section. Splices staggered for each side.
Arch Splice Plates	8" x 2" x 3/8"	6	8.0	0.375	2.50	0.94	1.10	4.0	4.4	
Upright	Sch 40 - 2.0 Aluminum Pipe	32	39.75	2.375	2.00	1.07	1.26	106.0	133.4	Standard 39.75" Upright predrilled for midrail and top crimped.
Crossmembers	4 x1.90 Aluminum Assoc. Channel	16	47.62	4	2.00	1.97	2.33	63.5	147.9	Straight Cut
End Members	8 x 0.190 Aluninum Assoc. Channel	2	47.62	8	3.00	3.49	4.10	7.9	32.6	Ends coped for fitting into main stringer.
Arch End Mount	C7 x 0.170 American Aluminum Channel	4	24.00	7	2.75	2.69	3.16	8.0	25.3	Ends coped for fitting into main stringer.
Deck Sleepers	1.5 x 1.5 x 0.25 Angle	2	668.0	1.5	1.5	0.75	0.88	111.3	98.2	
Upper Rail	5/4" x 6" Port Orford Cedar	2	672.0	1	5.50	5.50	1.25	112.0	140.0	
Hand Rail Cap	5/4" x 3" Port Orford Cedar	2	672.0	1	3.00	3.00	0.63	112.0	70.0	
Mid Rail	Sch 40 - 0.5 Aluminium Pipe	2	652.0	0.84 OD	0.622 ID	0.25	0.29	108.7	31.9	
Diagonals	1.5 x 1.5 x 0.25 Angle	15	66.0	1.5	1.5	0.75	0.69	82.5	56.8	
Decking	5/4" x 6" Port Orford Cedar	112	48	1.000	5.5	5.50	1.25	448	560.0	
Pier Mounting Plates	12" x 6" Angle	2	12	0.500	6	6.00	7.06	2.0	14.1	
	Total Pieces	**205**						**TOTAL WEIGHT (lbf)**	**2147**	

Dock Works, Inc.
PO Box 130
Winterport, ME 04496

with Port Orford Decking and Rails

Bill of Materials

DRAWN BY		SIZE	FSCM NO	DWG NO	REV
HENRI GIGNOUX				PML-4x56-HDCOM-RMP-5	2
DATE	FILENAME	SCALE		SHEET	
12/16/2009	4 X 56 HDCOM POC RAMP.VSD	1/4" = 1'-0"	**Load Rating 75 lb/ft²**	3 OF 3	

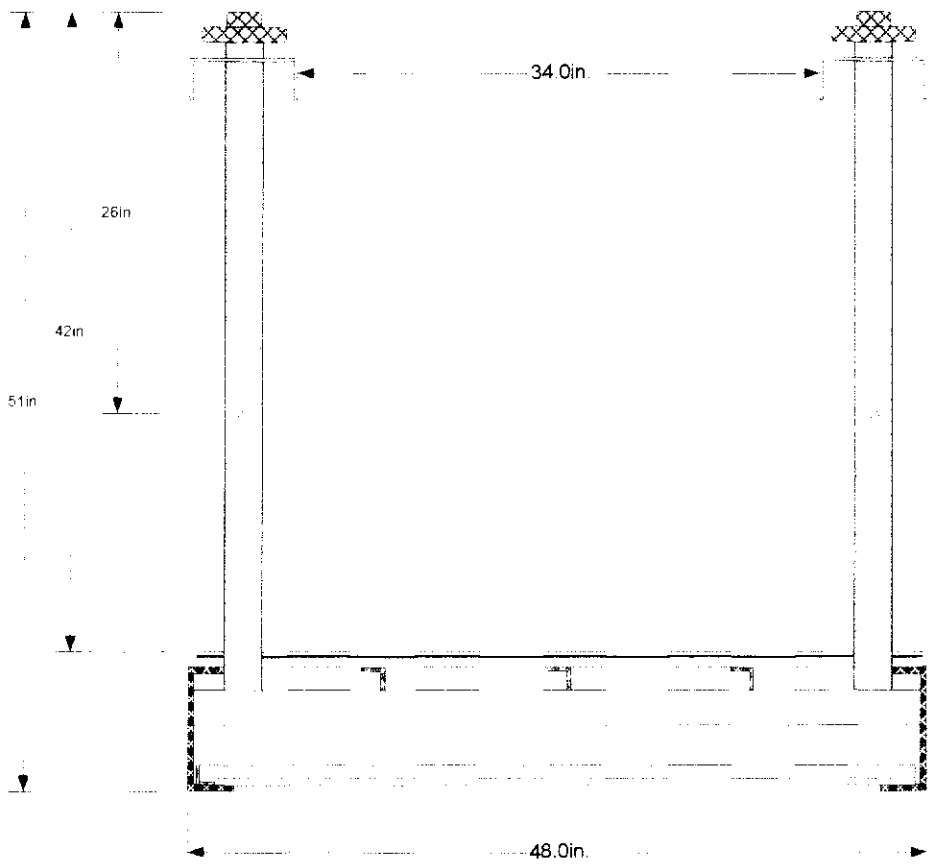
NOTES:

Welded aluminum 6061-T6 sub-frame

Decking and Handrails: 5/4" x 6" Port Orford Cedar

Hand Rail Cap: 5/4" x 3" Port Orford Cedar

All Hardware to be aluminum or stainless steel



Dock Works, Inc.
PO Box 130
Winterport, ME 04496

4' x 56' Heavy Duty Commercial Ramp, Arch Style with Port Orford Decking and Rails

Section View Detail at Mid-Ramp

DRAWN BY	SIZE	FSCM NO	DWG NO	REV
HENRI GIGNOUX			PML-4x56-HDCOM-RMP-2	2
DATE: 12/16/2009	FILENAME: 4 X 56 HDCOM POC RAMP.VSD	SCALE: 1" = 1'-0"	**Load Rating 75 lb/ft²**	SHEET: 2 OF 3

DEED OF TRAIL EASEMENT

In consideration of the payment of one dollar ($1.00), Pendo Associates, Inc., a Maine corporation with a mailing address of 42 South Street, Yarmouth, Maine, 04096 (hereafter "the Grantor"), hereby grants to Portland Trails, a Maine not-for-profit corporation with a place of business at One India Street, Portland, Maine 04101 ("Grantee") a non-exclusive perpetual easement over a strip of land (the "Easement Area") running along the Eastern shore of the Presumpscot River at or near and along the northerly portion of Grantor's property located at 470 Riverside Street, Portland, Maine (the "Property"), which Easement Area and property are more particularly described in Exhibit A attached hereto. This easement is for the purpose of constructing pedestrian access, including the construction of a trail along the Eastern shore of the Presumpscot River and for conserving the Easement Area as provided herein.

Together with and hereby granting to Grantee the right to construct, maintain, replace, relocate and repair within the Easement Area a trail (paved or unpaved) up to fifteen (15) feet in width (the "Trail") together with bridges, guard rails, bollards, retaining walls, signage and other similar appurtenances, for purposes of pedestrian, bicycle and similar non-motorized (other than wheelchair and emergency vehicles which shall be permitted) recreational uses by the public, which uses may include, without limit, picnicking, nature observation, use by rollerbladers, skateboarders, cross country skiers and such other recreational uses as may now or in the future arise, subject, however, to such rules which Grantee may adopt from time to time in the interests of public safety and/or protection of the Easement Area.

Grantor further covenants and agrees on behalf of itself, its successors and assigns, that the land which lies within the Easement Area shall, except for the construction, maintenance, repair, relocation and/or replacement of the Trail and any appurtenances by Grantee, its successors or assigns shall, as provided and permitted herein, be maintained in its natural and wooded state and Grantor shall not use or permit any uses which would be contrary to such condition.

Together with and hereby granting to Grantee an easement across the Grantor's property in such locations as may be, reasonably acceptable to Grantor for purposes of bringing in workers, vehicles and equipment for the aforesaid construction, maintenance, replacement, relocation and repair of the Trail and appurtenances. Provided, however, that any resulting damage to the Property shall be repaired by Grantee and Grantee shall restore the Property to its original condition. Additionally, Grantee shall indemnify Grantor against any actions, claims or damages incurred or suffered by Grantor which arise from the negligence or unlawful conduct of Grantee in connection with the use or aforementioned construction, maintenance, and repair of the Easement Area.

Together with and hereby granting to Grantee the right within the Easement Area to periodically trim trees and to remove dead, diseased or fallen trees (including "leaners") and to selectively clear undergrowth and make plantings to (1) prevent erosion, (2) provide views of the Presumpscot River and (3) provide for public safety, all in accordance with good forestry and landscaping management practices, it being the intent hereof that this easement shall also be a conservation easement pursuant to 33 M.R.S.A. §476 *et seq.*

Together with and hereby granting to Grantee the right to enter upon the Grantor's property on foot and at reasonable times in order to ensure compliance with the terms hereof.

To have and to hold the said Easement and all rights granted hereunder to the said Grantee and its successors and assigns forever,

IN WITNESS WHEREOF, Grantor and Grantee have caused this easement to be executed this 11th day of March, 2005.

WITNESS:

Esther M. Pappas

Pende Associates, Inc.

By: _____
Name: Paul T. Pappas
Its: President

STATE OF MAINE
COUNTY OF CUMBERLAND, ss.

March 11, 2005

Personally appeared the above-named Paul T. Pappas, President of Pende Associates, Inc., as aforesaid, who acknowledged the foregoing instrument to be his free act and deed in his said capacity and the free act and deed of said corporation.

Before me,

_____
Attorney-at-Law/Notary Public
[redacted]
Name
[redacted]

My Commission Expires: _____

EXHIBIT A

LEGAL DESCRIPTION

The Easement Area identified as "Approximate [location of] Walking Trail Easement to be Located Along the Top of Bank," as shown on a certain plan dated July 20, 2004, identified as follows: "Condominium Plat, 470 Riverside Street Condominium, 470 Riverside Street, Portland, Maine," prepared by Owen Haskell, Inc., to be recorded in the Cumberland County Registry of Deeds.

Received
Recorded Register of Deeds
Mar 14,2005 [illegible]
Cumberland County
John B O'Brien

[illegible]

3.14 SIDEWALK, CURB, AND RAILING LOADING

3.14.1 Sidewalk Loading

3.14.1.1 Sidewalk floors, stringers, and their immediate supports shall be designed for a live load of 85 pounds per square foot of sidewalk area. Girders, trusses, arches, and other members shall be designed for the following sidewalk live loads:

Spans 0 to 25 feet in length .....85 lb./ft.^{2}
Spans 26 to 100 feet in length .....60 lb./ft.^{2}
Spans over 100 feet in length according to the formula

$$P = \left(30 + \frac{3{,}000}{L} \right) \left(\frac{55 - W}{50} \right) \qquad (3\text{-}3)$$

in which

P = live load per square foot, max. 60-lb. per sq. ft.
L = loaded length of sidewalk in feet.
W = width of sidewalk in feet.

3.14.1.2 In calculating stresses in structures that support cantilevered sidewalks, the sidewalk shall be fully loaded on only one side of the structure if this condition produces maximum stress.

3.14.1.3 Bridges for pedestrian and/or bicycle traffic shall be designed for a live load of 85 PSF.

3.14.1.4 Where bicycle or pedestrian bridges are expected to be used by maintenance vehicles, special design consideration should be made for these loads.

3.14.2 Curb Loading

3.14.2.1 Curbs shall be designed to resist a lateral force of not less than 500 pounds per linear foot of curb, applied at the top of the curb, or at an elevation 10 inches above the floor if the curb is higher than 10 inches.

3.14.2.2 Where sidewalk, curb, and traffic rail form an integral system, the traffic railing loading shall be applied and stresses in curbs computed accordingly.

3.14.3 Railing Loading

For Railing Loads, see Article 2.7.

3.15 WIND LOADS

The wind load shall consist of moving uniformly distributed loads applied to the exposed area of the structure. The exposed area shall be the sum of the areas of all members, including floor system and railing, as seen in elevation at 90 degrees to the longitudinal axis of the structure. The forces and loads given herein are for a base wind velocity of 100 miles per hour. For Group II and Group V loadings, but not for Group III and Group VI loadings, they may be reduced or increased in the ratio of the square of the design wind velocity to the square of the base wind velocity provided that the maximum probable wind velocity can be ascertained with reasonable accuracy, or provided that there are permanent features of the terrain which make such changes safe and advisable. If a change in the design wind velocity is made, the design wind velocity shall be shown on the plans.

3.15.1 Superstructure Design

3.15.1.1 Group II and Group V Loadings

3.15.1.1.1 A wind load of the following intensity shall be applied horizontally at right angles to the longitudinal axis of the structure:

For trusses and arches .....75 pounds per square foot
For girders and beams .....50 pounds per square foot

3.15.1.1.2 The total force shall not be less than 300 pounds per linear foot in the plane of the windward chord and 150 pounds per linear foot in the plane of the leeward chord on truss spans, and not less than 300 pounds per linear foot on girder spans.

3.15.1.2 Group III and Group VI Loadings

Group III and Group VI loadings shall comprise the loads used for Group II and Group V loadings reduced by 70 percent and a load of 100 pounds per linear foot applied at right angles to the longitudinal axis of the structure and 6 feet above the deck as a wind load on a moving live load. When a reinforced concrete floor slab or a steel grid deck is keyed to or attached to its supporting members, it may be assumed that the deck resists, within its plane, the shear resulting from the wind load on the moving live load.

3.15.2 Substructure Design

Forces transmitted to the substructure by the superstructure and forces applied directly to the substructure by wind loads shall be as follows:

Helix Mooring Systems Inc
P.O. Box 723
Belfast, ME 04915

PH 800 866-4775
FAX 207 338-0415

RETAIL PRICE SHEET

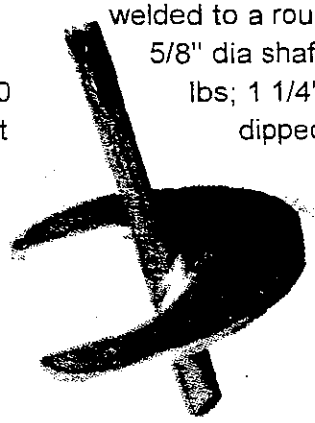
Round Shaft Series

Effective January, 2001

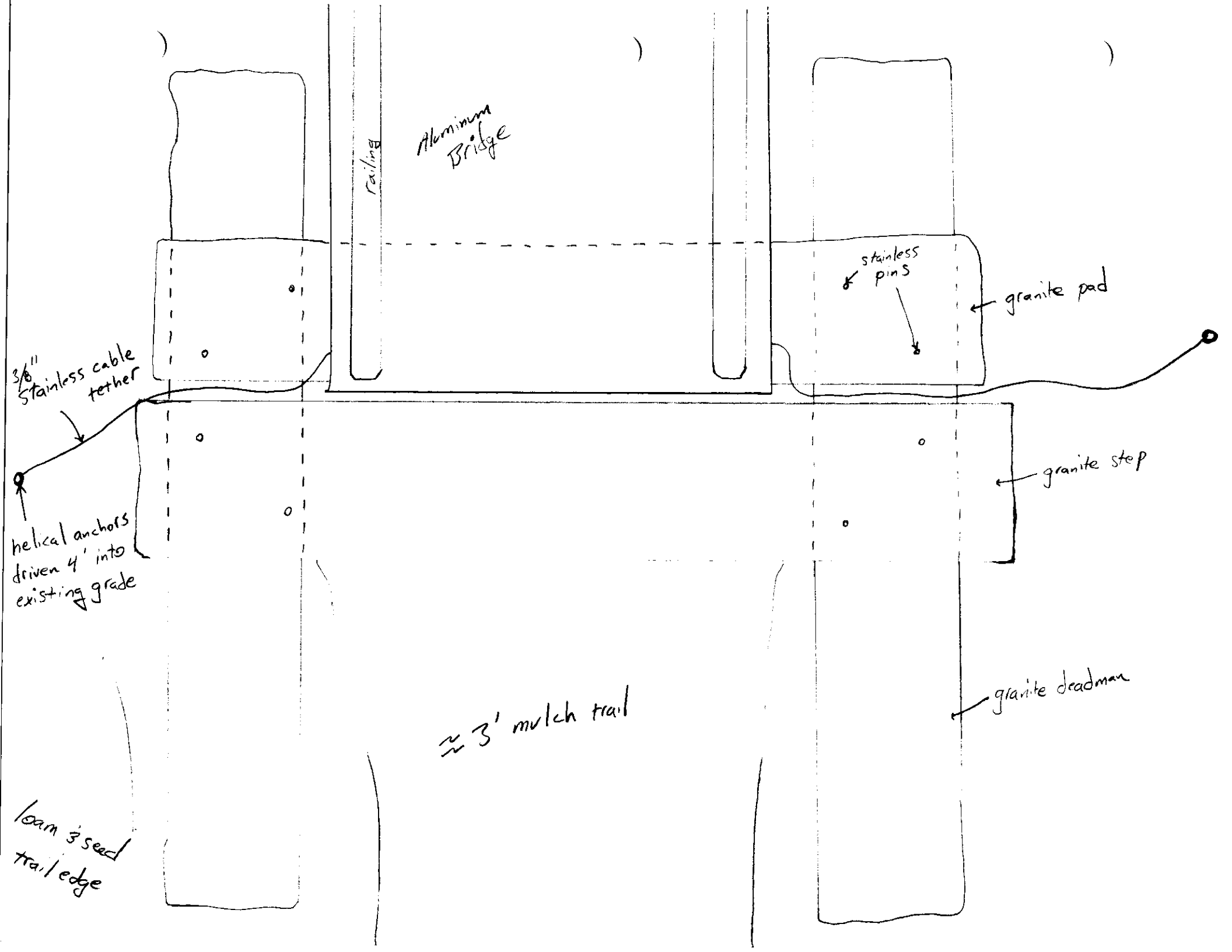
The Round Shaft Series is our light-weight marine embedment anchor. It is based on the same embedment principles as our Square Shaft anchors, but intended for lower load situations. These Round Shaft anchors have forged eyes so they can be turned into most shallow water harbor bottoms by hand using a turning bar for leverage. They can also be installed in deeper water and harder bottoms by a diver using an underwater torque motor.

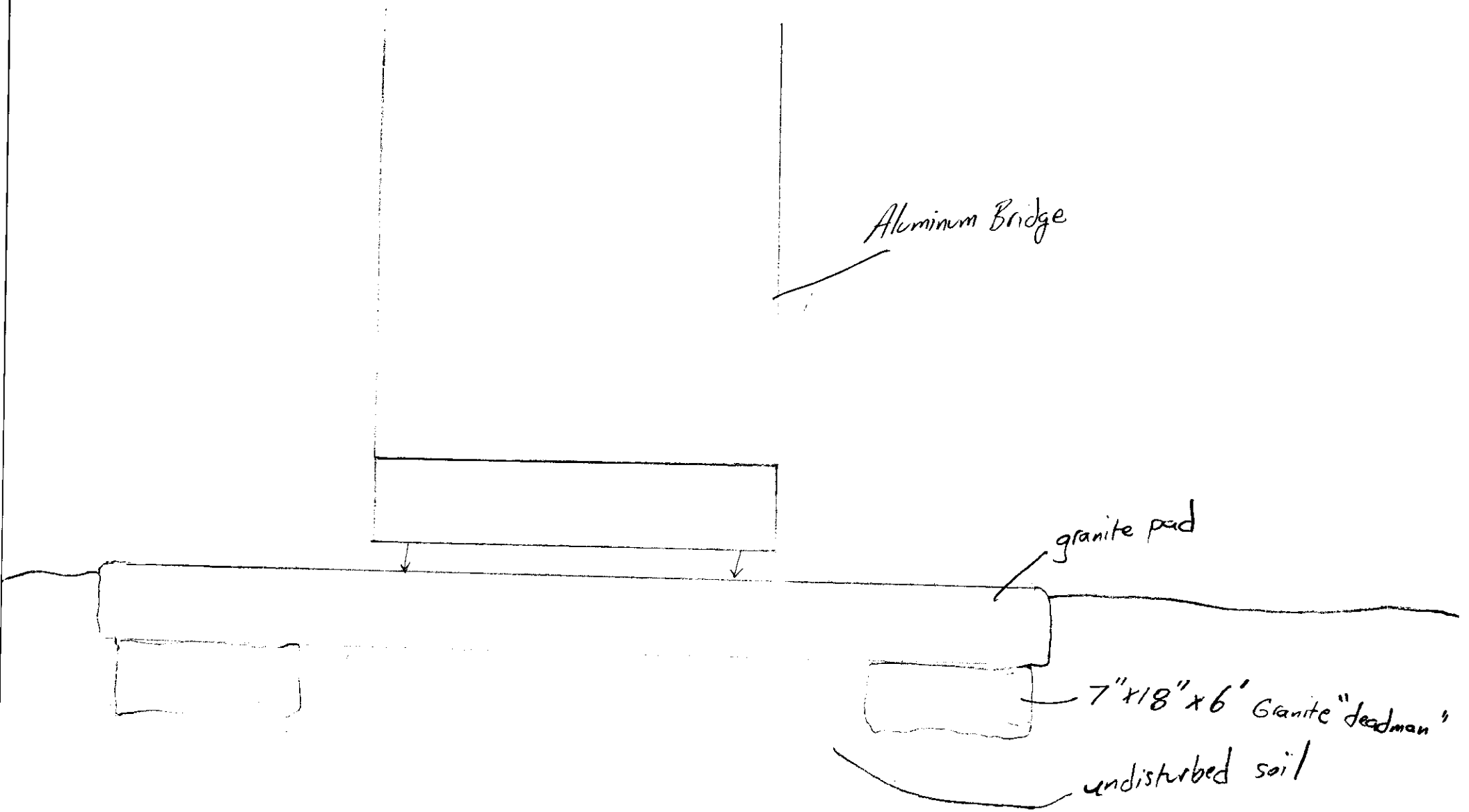
Model#	Description	Shaft Dimensions	Weight In Pounds	Retail Price
H0454	Single 4"	4.5' x3/4" D	10	$45
H 0648	Single 6"	4' x 5/8" D	9	$38
H 0666	Single 6"	5.5' x 3/4" D	22	$55
H 0866	Single 8"	5.5' x 1" D	26	$75
H1066	Single 10"	5.5' x 1 1/4"D	31	$105
H 1096	Single 10"	8' x 1 1/4"D	40	$125
H 1496	Single 14"	8' x 1 1/4"D	48	$160
H 0072	Shaft Extension	6' x 1 1/4"D	28	$100

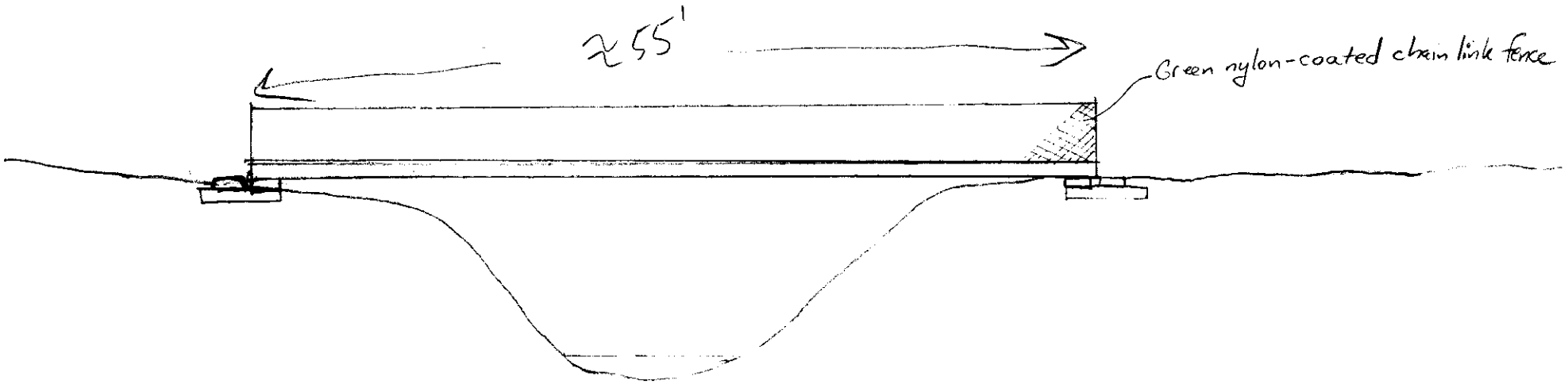
The steel anchors are made with a single helix welded to a round, drop-forged shaft. The approximate breaking strengths are: 5/8" dia shaft at 5,000 lbs; 3/4" dia shaft at 10,000 lbs; 1" dia shaft at 20,000 lbs; 1 1/4" dia shaft at 30,000 lbs. These anchors are protected with hot dipped galvanizing.



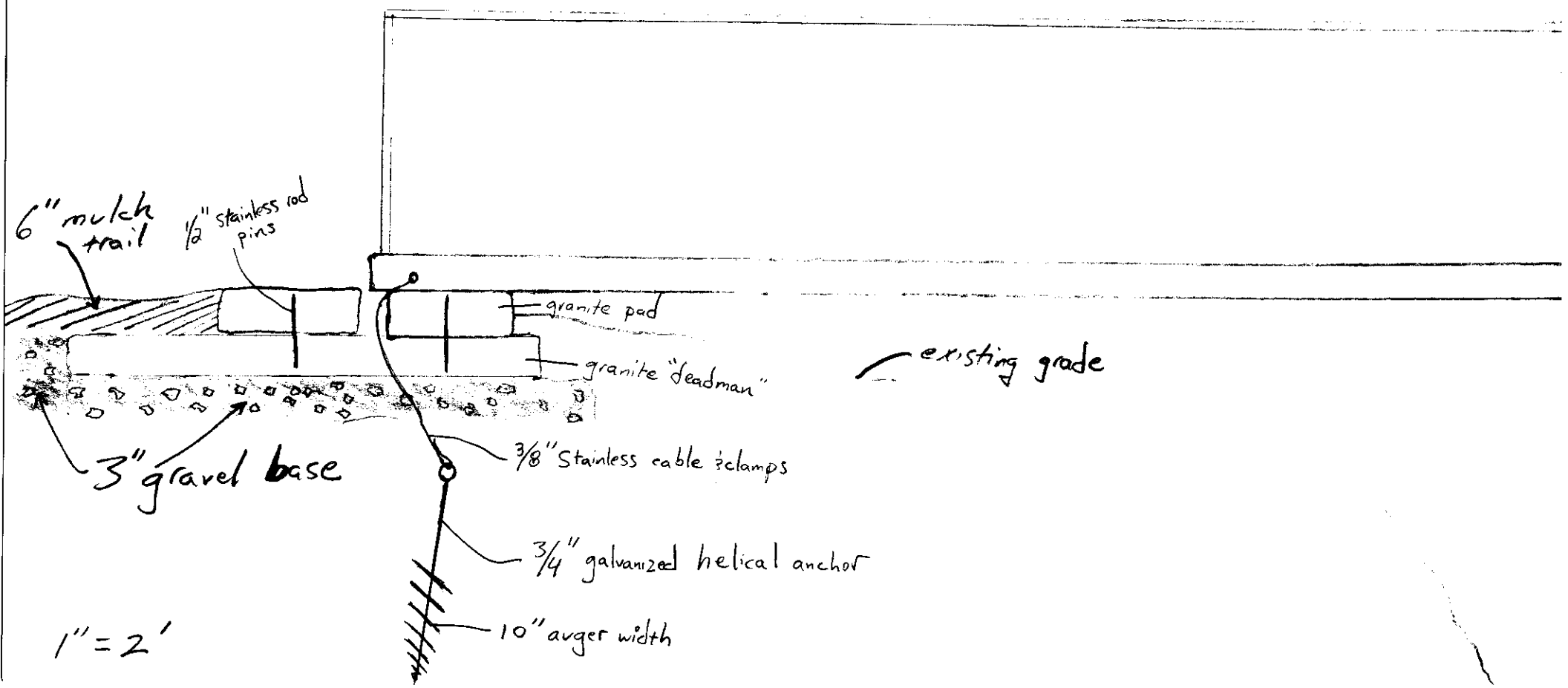
Shipping: FOB Helix Mooring Systems' shipping point via common carrier. Please allow minimum of 2-3 weeks for delivery.

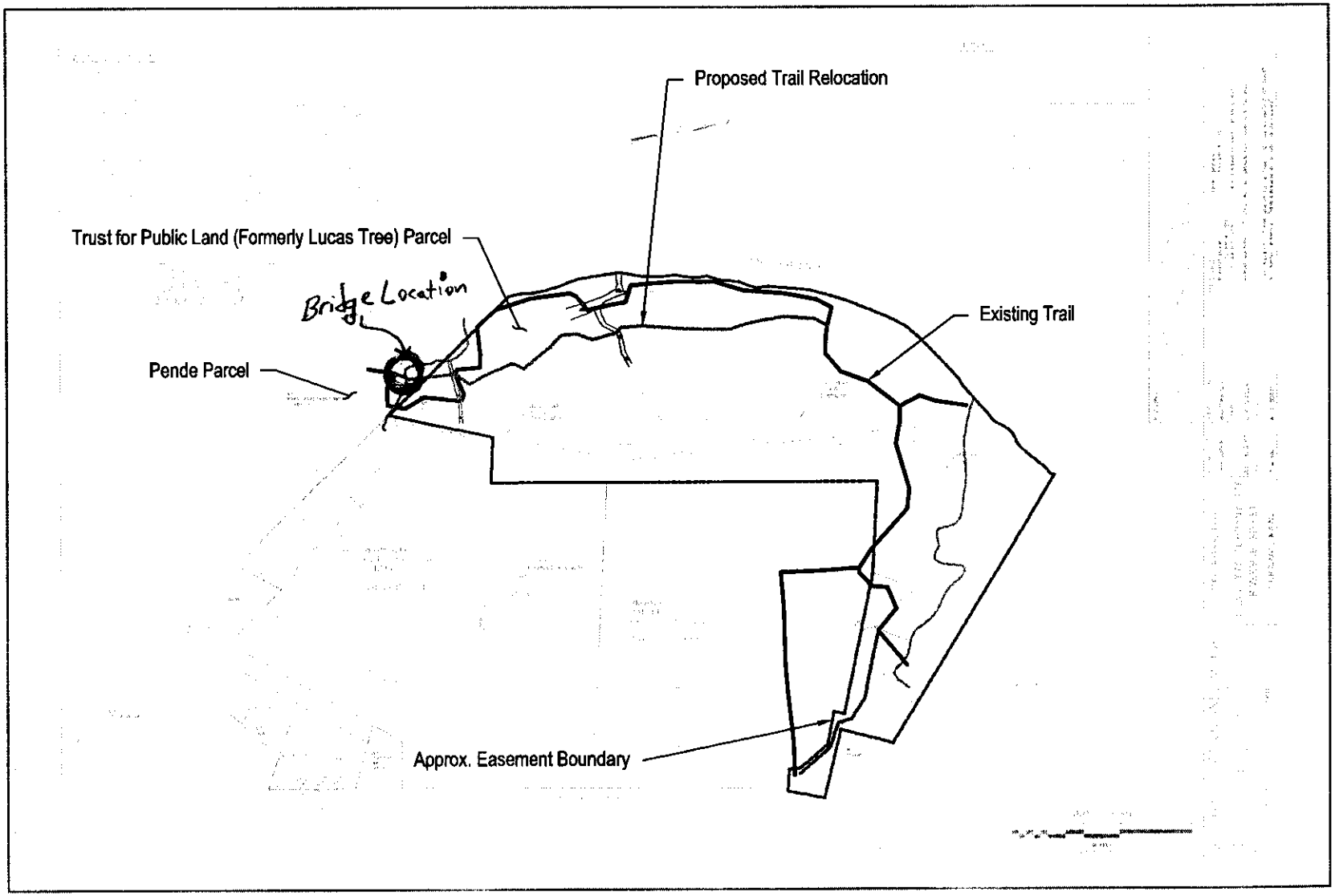

railing
Aluminum Bridge
stainless pins
granite pad
3/8" Stainless cable tether
granite step
helical anchors driven 4' into existing grade
granite deadman
≈3' mulch trail
loam & seed trail edge


Aluminum Bridge
granite pad
7"x18"x6' Granite "deadman"
undisturbed soil



1"=10'


6" mulch trail
1/2" stainless rod pins
granite pad
granite "deadman"
existing grade
3" gravel base
3/8" Stainless cable & clamps
3/4" galvanized helical anchor
10" auger width
1" = 2'



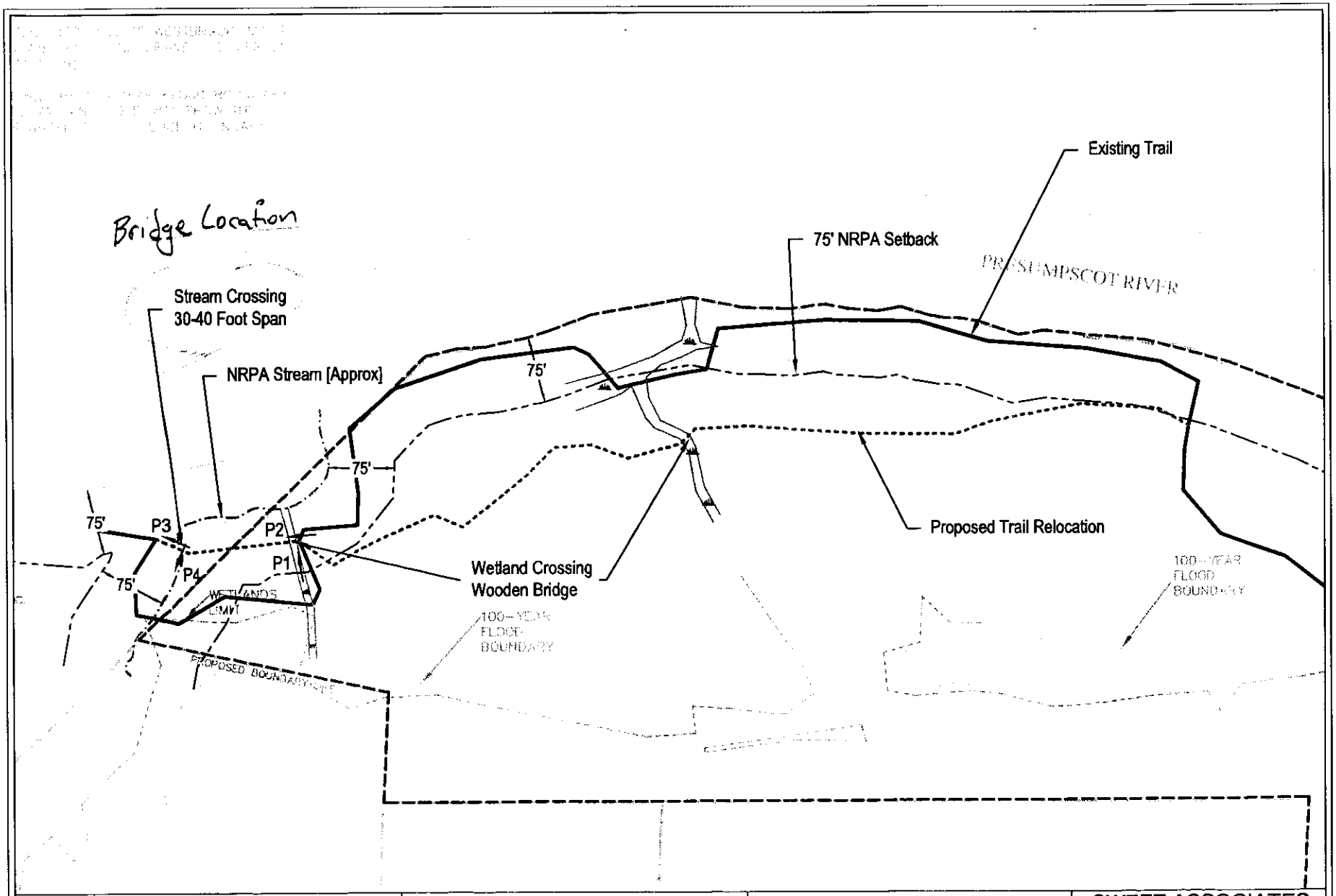
200' 0' 400' 800'

1" = 400'

Trail Location Map
Figure 1

Portland Trails
Riverside Street
Portland, Maine

SWEET ASSOCIATES
155 Gray Road
Falmouth, Maine
Phone: (207) 797-2110



Trail Location Map
Figure 2

Portland Trails
Riverside Street
Portland, Maine

SWEET ASSOCIATES
155 Gray Road
Falmouth, Maine
Phone: (207) 797-2110