F7

Hiawatha Parks and Recreation

To:	Mayor and City Council
From:	Kelly Willadsen, Park and Recreation Director and Rod Jasa, Public Works Supervisor and John Bender City Engineer
Date:	January 22, 2019
Re:	Hiawatha Dog Park Bridge
CC:	Kim Downs, City Administrator

The Hiawatha Dog Park has been a continuous process. The Certified Linn County Chainsaw Response Team has been removing trees to get some practice in, which reduces our tree removal budget. Once trees and stumps are removed, we will be cleaning the creek line and installing a bridge that will allow access to both sides of the dog park. County did not want dog park users walking down the trail to access the south entrance requiring a bridge over the creek.

Rod, John and I collected measurements to determined the length and width of the bridge, along with the loading weight and design that would meet our needs. We contacted three bridge companies as you will see in the chart below. Barnes Manufacturing is located in Marion, and was the most reasonable price based on our needs. They were able to meet us at the dog park location and discuss the overall project. We are able to tweak designs and make the bridge how we want rather than ordering from an out of state company where the design will be standard with no flexibility. The other two company quotes include bridge construction and delivery, but it would be up to City staff for installation and unload. The positive side of working with a local company is that delivery and installation is a much lower cost. Installation costs could fluctuate if we can find in-kind services.

We are recommending Barnes Manufacturing for the construction and installation of a 28' x 8' bridge since we can work with them one on one, their construction price is lower and they have done other local projects where we can see the quality of their work.

This bridge will be constructed out of Corten Steel with rough sawn unfinished native oak for the railing and decking. Maintenance costs will be considerably low with these types of materials used.

Barnes Manufacturing Services- Marion, Iowa	**28' Bridge/8ft Wide**	**$25,995.00 + $4,400 installation**
Bridge Brothers- Illinois	26' Bridge/8ft Wide	$40,085.00 (unload and installation not included)
GatorBridge	28' Bridge/8ft Wide	$28,500.00 (unload and installation not included)

**All quotes represent a contracted pedestrian bridge with an 8' width, 90 psf live load, 42" railing, 2,550-5,000 vehicle load and meet building guidelines though the Hiawatha Community Development department.

We are requesting your approval to move forward using Barnes Manufacturing from Marion, Iowa for the dog park bridge construction and installation at a cost not to exceed $31,000. The funds for this purchase are available through Dave Wrights $100,260.00 donation.

BARNES
MANUFACTURING SERVICES
Designers, Engineers, and Manufacturers
of Metal Fabricated Products
560 31ST STREET - MARION, IA 52302
Phone: 319-377-3442 Fax: 319-377-7953
Website: www.barnesmfg.com
Email: SCOTT@BARNESMFG.COM

Quote: 33558
Date: 01/14/2019
Cust Id: HC-017

Quotation

To JOHN BENDER
RFQ # 1-4-19 ON SITE MEETING
Quoted By Scott

HIAWATHA CITY
101 EMMONS STREET
HIWATHA IA 52233

Quote No:	Quote Date:	Terms:	FOB:	Required Date:	Ship Via:
33558	01/11/2019	Net 30	DELIVERED	02/10/2019	OUR TRUCK

Part Number: PEDESTRIAN BRIDGE **Rev:** -
Description: COR-TEN/OAK DOGPARK BRIDGE

Qty.	Comments:	Unit Price:	Extended Price:
1.00		25,995.00	25,995.00

Comments: THE BRIDGE WILL BE OF COR-TEN STEEL CONSTRUCTION
THE DECKING WILL OF ROUGHSAWN UNFINISHED NATIVE OAK
THE VERTICAL BALLISTERS WILL OF ROUGHSAWN UNFINISHED NATIVE OAK ATTACHED TO CORTEN STEEL TUBING
QUOTE INCLUDES A PROFESSIONAL ENGINEERS STAMP

Common Comments:

Lead Time: TO BE INSTALLED LATE MARCH 2019

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Designers, Engineers, and Manufacturers
of Metal Fabricated Products
560 31ST STREET - MARION, IA 52302
Phone: 319-377-3442 Fax: 319-377-7953
Website: www.barnesmfg.com
Email: SCOTT@BARNESMFG.COM

Quote: 33561
Date: 01/14/2019
Cust Id: HC-017

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RFQ # 1-4-19 ON SITE MEETING
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HIWATHA IA 52233

Quote No:	Quote Date:	Terms:	FOB:	Required Date:	Ship Via:
33561	01/11/2019	Net 30	DELIVERED	02/10/2019	OUR TRUCK

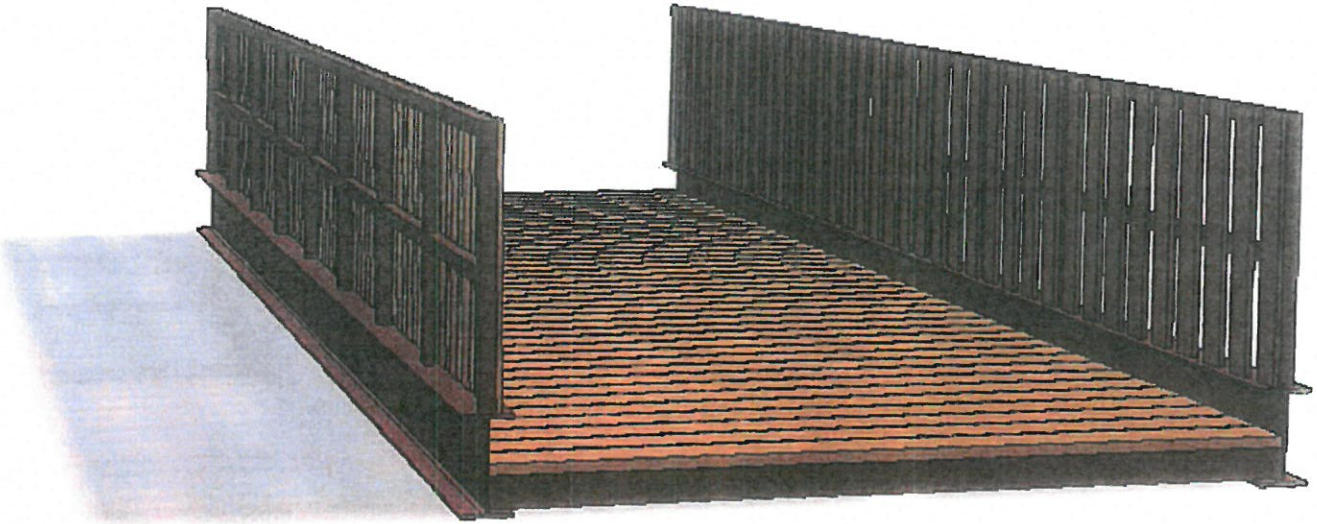
Part Number: PED BRIDGE INSTALL **Rev:** -
Description: INSTALLATION OF DOGPARK PED BRIDGE

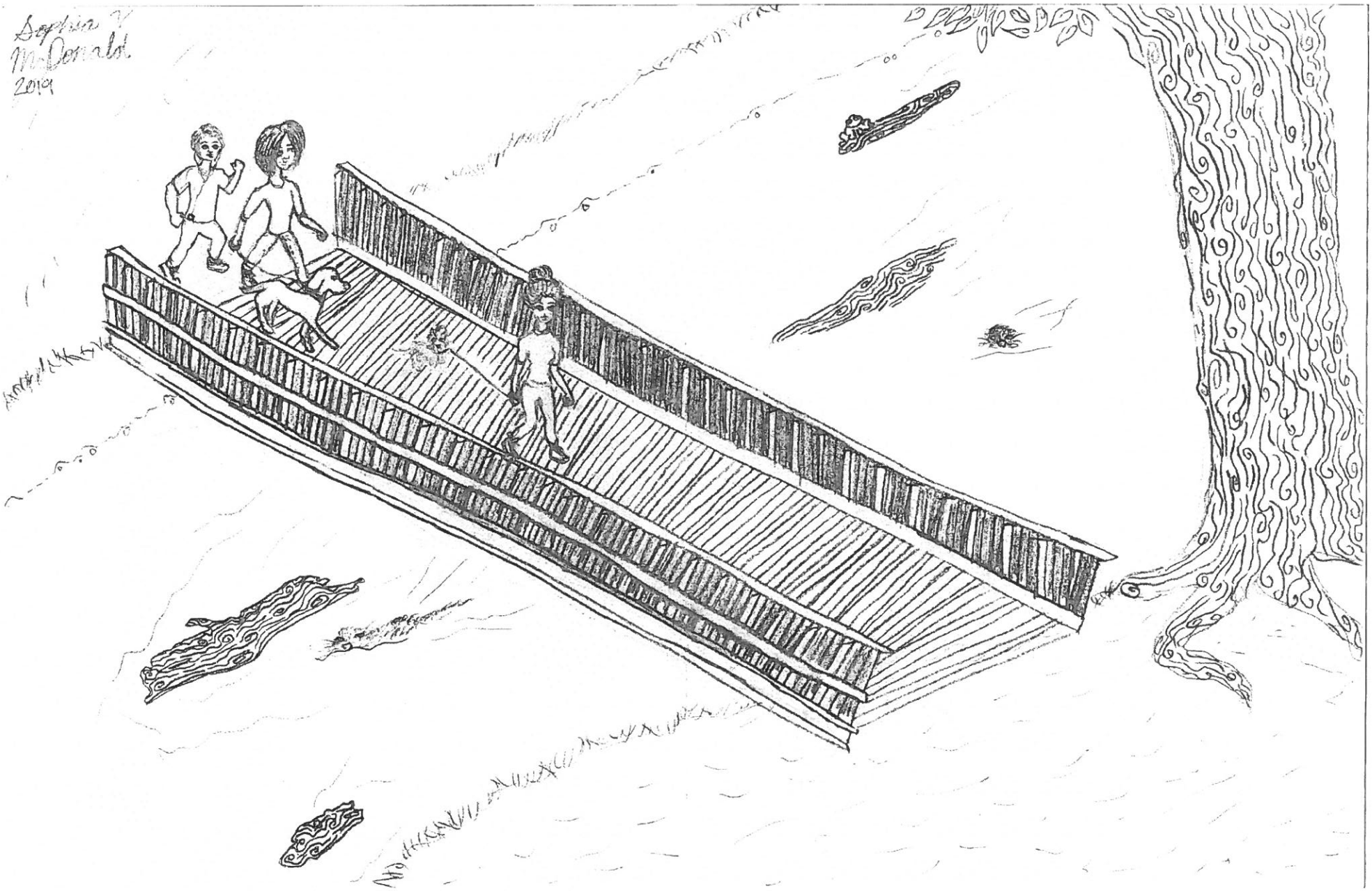
Qty.	Comments:	Unit Price:	Extended Price:
1.00		4,400.00	4,400.00

Comments: QUOTE IS FOR INSTALLATION ONLY FOR THE HIAWATHA DOGPARK PED BRIDGE
BRIDGE WILL BE COMPLETE WHEN DELIVERED TO THE INSTALL SITE
BRIDGE WILL BE SET ON (4) CONCRETE PIERS (PROVIDED AND SET BY OTHERS)
BRIDGE WILL BE SET ON STEEL PLATES PROVIDED BY BARNES MFG - LEVELED AND WELDED ON SITE

Common Comments:

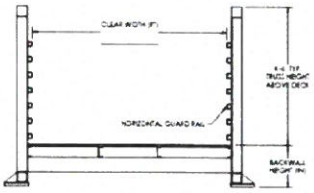
Lead Time: TO BE INSTALLED LATE MARCH



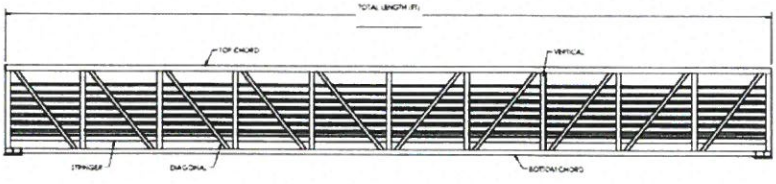

Sophia V
McDonald
2019

BRIDGE BROTHERS

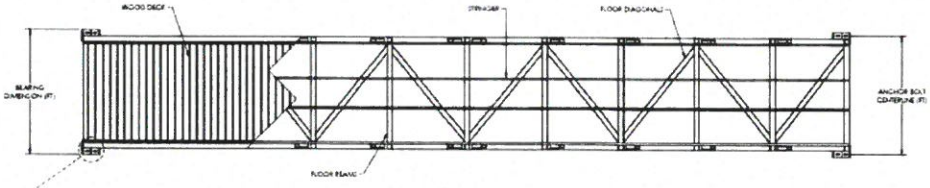
"THE VIEWS AND DETAILS DEPICTED ON THIS PAGE ARE TYPICAL AND DO NOT REPRESENT ANY SPECIFIC PROJECT DESIGN.



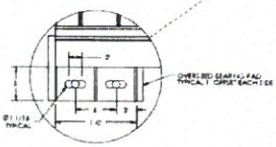
SECTION VIEW



BRIDGE ELEVATION



BRIDGE PLAN



DETAIL 1

GENERAL NOTES:

1. DEBUR ALL EXPOSED WELDS WHICH MAY COME IN CONTACT WITH PEDESTRIANS
2. BRIDGE BEARINGS SHALL BE CONSTRUCTED AT SAME LEVEL
3. BRIDGE BEARING PADS SHALL BE NEOPRENE OR TEFLON COATED STEEL AND SHALL BE SHIPPED LOOSE FROM BRIDGE
4. ANCHOR DESIGN AND INSTALLATION SHALL BE BY OTHERS - NO RESPONSIBILITY ACCEPTED FOR WORK BY OTHERS
5. BRIDGE INSTALLATION SHALL BE BY OTHERS - NO RESPONSIBILITY ACCEPTED FOR WORK BY OTHERS
6. BRIDGE MAY BE CAMBERED DURING FABRICATION TO OFFSET DEAD LOAD DISPLACEMENT
7. STEEL COMPONENTS SHALL BE MILL FINISH
8. HSS SQUARE & RECTANGULAR TUBING SHALL BE ASTM A847 (YIELD 50KSI MINIMUM)
9. PLATE, ANGLE, & CHANNEL SHALL BE ASTM A588 (YIELD 50KSI MINIMUM)
10. MECHANICAL SPLICE FASTENERS SHALL BE ASTM A325
11. STEEL WELDING SHALL CONFORM TO AWS D1.1
12. ALL EXPOSED SURFACES OF TRUSS & DECK FRAME SHALL BE BLAST CLEANED PRIOR TO SHIPPING

REVISION RECORD		
REV.	DATE	DESCRIPTION
A		

BRIDGE BROTHERS
21 SIMMONS AVE. GREENVILLE, SC 29607
(866) 258-3401, WWW.BRIDGEBROTHERSINC.COM

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DRAWN BY:
CHECKED BY:
TOLERANCES UNLESS SPECIFIED OTHERWISE
XXX = ±1/4"; FRACTIONS = ±1/8"; ANGULAR = ±1°
SHEET 1 of 1
SCALE: N/A
PRELIMINARY DRAWING

PEDESTRIAN BRIDGE

CUSTOMER:
PROJECT #
PO #

BRIDGE REACTIONS	Z (LBS)	Y (LBS)	X (LBS)
DEAD LOAD	—		—
VEHICLE LOAD (10,000 LBS)	—		—
LIVE LOAD (@ 90PSF)	—		—
HORIZONTAL WIND (@ 44.2PSF) OVERTURNING WIND (@ 20PSF)			—
THERMAL (COEFF OF FRICTION 0.2)	—	—	

BRIDGE LIFTING WEIGHT =
THERMAL EXPANSION (BASED ON A SEASONAL TEMPERATURE VARIATION OF 120°F)
Y = VERTICAL LOAD @ EACH BEARING PLATE (4 TOTAL)
Z= HORIZONTAL LOAD @ EACH FOOTING (2 PER BRIDGE, 1 @ EACH END)
X = LONGITUDINAL LOAD @ EACH FIXED BEARING PLATE (2 PER BRIDGE)

SHIPPING WEIGHT =

sales@bridgebrothersinc.com | (866) 258.3401 | www.bridgebrothersinc.com

CONTACT |	Rod Jasa
COMPANY |	City of Hiawatha Iowa
EMAIL |	streets@hiawatha-iowa.c
PHONE |	(319) 393-6601

BRIDGE DETAILS

Bridge Length	26'	Bridge Width	6'
Vehicle Loading	5,000lbs	Live Load	90psf
Truss Style	Pratt	Splice(s)	☐
Decking Type	PT Pine	Elevation Change	☐

ATTRIBUTES

Railing Style	Horizontal	Railing Height	42"
Weight	~ 4,100 lbs	Rubrail	N/A
Bridge Finish	Painted	AASHTO Design	☑
Abutment Design	☑	Anchor Design	☑

Freight Cost	$ 5,225.00
Material Cost	$ 30,071.00

BRIDGE ESTIMATE

$ 35,296.00

Additional Info:

IA PE stamped bridge design, manufacturing and delivery. Painted steel bridge with PT pine decking, ADA grabrail, and horizontal railing. Price does not include tax, construction or installation. 8' wide bridge please add $4,789. Abutment and anchor design is included we will need survey and geotechnical report.

This proposal does not include sales tax, unloading cost, bridge erection or construction cost. This proposal is based on the information provided

Design & Engineering - 3 Weeks
Manufacturing & Delivery - 10 Weeks

K Willadsen

From: Rick Dyc
Sent: Tuesday, January 22, 2019 3:34 PM
To: kwilladsen@hiawatha-iowa.com
Subject: GatorBridge reply / Hiawatha, IA 8' x 28' pedestrian bridge
Attachments: GatorBridge Cascade STD drawing.pdf; Lake Erie Bluffs completed bridge 2.JPG; Lake Erie Bluffs completed bridge 4.JPG

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Kelly:

Thanks for connecting with us on our web site. I live in Michigan and manage our bridge and dock sales for the northern US states. We are custom manufacturers of prefabricated aluminum structures. Your details below allow me to offer the following estimates:

- One prefabricated 8' inside clear width x 28' long Cascade aluminum pedestrian bridge
- 90 psf live load plus 5,000 lb vehicle load
- Pressure-treated pine decking
- 42" horizontal railing
- Aluminum mill finish
- Approximate outside bridge width of 10'
- Estimated bridge weight of 4,300 lbs
- Delivery on over-width truck to Hiawatha, IA (unloading and installation by others)
- Cost estimate of $28,500 plus any applicable taxes

Attached for reference is a standard drawing of our Cascade bridge as well as project photos of a Cascade bridge with similar features. For comparison, I wanted to offer a few other options with differences <u>underlined:</u>

Option 1:

- One prefabricated 8' inside clear width x 28' long Cascade aluminum pedestrian bridge
- 90 psf live load <u>for pedestrians and light rubber tire loads up to 2,500 lbs</u>
- Pressure-treated pine decking
- <u>42" combination hand / vertical picket / toe railing</u>
- Aluminum mill finish
- Approximate outside bridge width of 10'
- Estimated bridge weight of <u>2,800 lbs</u>
- Delivery on over-width truck to Hiawatha, IA (unloading and installation by others)
- Cost estimate of <u>$23,500</u> plus any applicable taxes

Option 2:

- One prefabricated <u>6' inside clear width</u> x 28' long Cascade aluminum pedestrian bridge
- 90 psf live load <u>for pedestrians and light rubber tire loads up to 2,500 lbs</u>
- Pressure-treated pine decking
- <u>42" combination hand / vertical picket / toe railing</u>
- Aluminum mill finish
- Approximate <u>outside bridge width of 8'</u>

- Estimated bridge weight of 2,300 lbs
- Delivery on standard truck to Hiawatha, IA (unloading and installation by others)
- Cost estimate of $19,900 plus any applicable taxes

If you have project bid plans and specifications, please let me know. I can then dig into all those requirements and offer a detailed quote. After review of this information, please let me know what questions you have at this time. I'm glad to help!

Thanks,
Rick

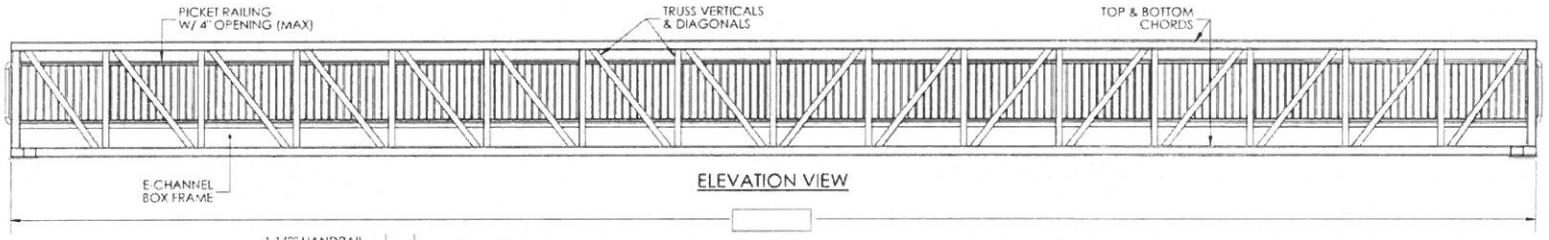
Rick Dyc
Regional Sales Manager
GatorDock & GatorBridge
Direct: 770-850-4921 | Cell: 678-206-5401
gatordock.com | gatorbridge.com | cmilc.com

GatorDock Marine Access Solutions GatorBridge Prefabricated Aluminum Bridges

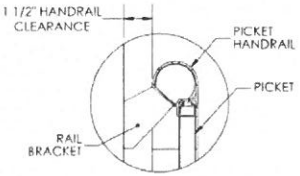
Kelly wrote: Looking for a quote on a pedestrian bridge.
28' long
Vehicle Load: 5,000lbs
Bridge Width 8ft
Railing Horizontal
Railing Height 42"
Live Load 90psf
Decking: Oak or pine

CASCADE PEDESTRIAN BRIDGE

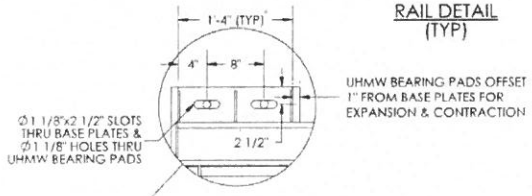
* ALL DIMENSIONS, CONFIGURATIONS, AND MEMBERS SHOWN ARE STANDARD AND MAY VARY. CUSTOM OPTIONS ARE AVAILABLE.



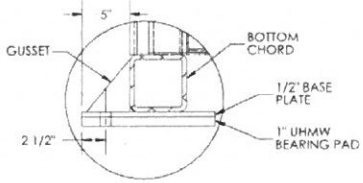
ELEVATION VIEW



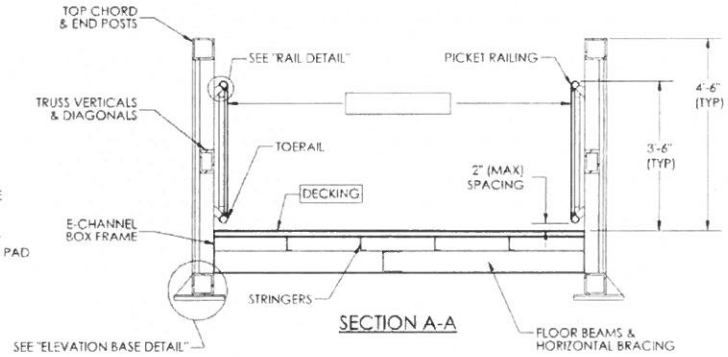
RAIL DETAIL (TYP)



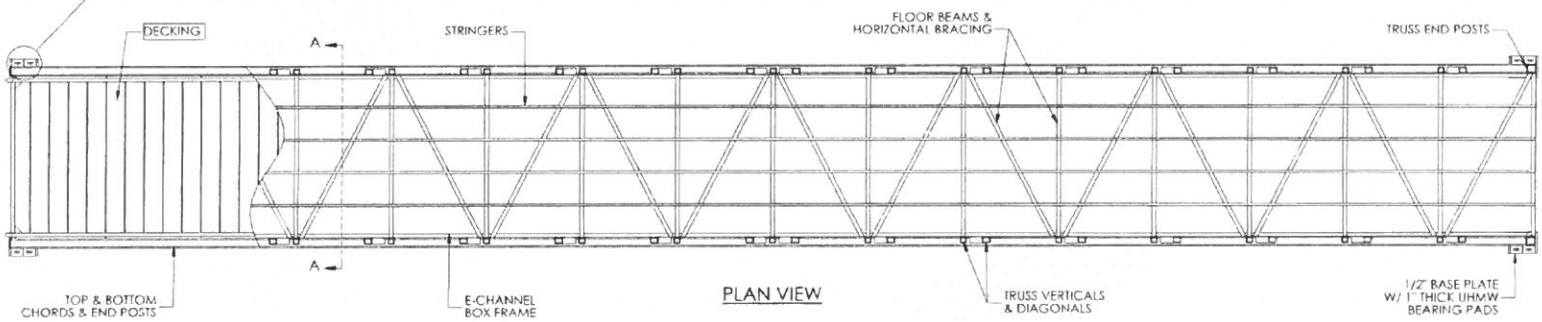
PLAN BASE DETAIL (TYP)



ELEVATION BASE DETAIL (TYP)



SECTION A-A



PLAN VIEW

GatorBridge
Prefabricated Aluminum Bridges
2880 MELLONVILLE AVE, SANFORD, FL 32773
800/254 8857 407/323-0190

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RECORD OF REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NAME:

CUSTOMER NAME:

CUSTOMER ADDRESS:

PROJECT LOCATION:

GBI ORDER NO.:

CUSTOMER PO NO.:

	NAME	DATE
DRAWN BY:		
CHECKED BY:		
FABRICATION:		

DRAWING NO.:

Authorized By:

Hiawatha!

1 inch = 40 feet

DRAFT

RESOLUTION NO. 19-
City Council

RESOLUTION AUTHORIZING THE PARKS AND RECREATION DEPARTMENT PURCHASE OF WATER WAY BRIDGE IN RELATION TO THE FUTURE DOG PARK

WHEREAS, the Parks and Recreation Department has determined the need to purchase one (1) Water Way Bridge in relation to the Future Dog Park, and

WHEREAS, funding for the purchase of one (1) Water Way Bridge and installation in the amount of $31,000.00, is available in the donation from Dave Wright, and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, to authorize the purchase of one (1) Water Way Bridge and installation in a total amount not to exceed $31,000.00, from Barnes Manufacturing Services, of Marion, Iowa, utilizing available funding in the donation from Dave Wright.

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 6th day of February, 2019

_____
Bill Bennett, Mayor

ATTEST:

_____
Kari Graber, Deputy City Clerk