Special Meeting Notice
City of Spokane
Joint Arts Committee Meeting
2:30 p.m. Tuesday, Feb. 20, 2018
Meeting Room 1A, Downtown Public Library
906 W. Main Ave., Spokane, WA 99201

Joint Arts Committee Members:
Chris Wright, Park Board
Jennifer Ogden, Park Board
Ginger Ewing
Dean Davis

Guests:
Meejin Yoon (call-in)
Neil Legband (call-in)
Nancy Nichols call-in)
Dr. Suzan Marshall

Staff:
Leroy Eadie, Parks
Garrett Jones, Parks
Fianna Dickson, Parks
Berry Ellison, Parks
Jo-Lynn Brown, Parks
Pamela Clarke, Parks
Melissa Huggins, Spokane Arts
Karen Mobley, Spokane Arts

Notes

1. **Roll call –** See above

2. **Discussion items**
   A. Lead Artist concept design – *Melissa Huggins* introduced call-in guests *Meejin Yoon, Neil Legband* and *Nancy Nichols* of Höweler + Yoon Architecture. Riverfront Park lead artist Ms. Yoon presented a progress report on the park's signature art designs and the art master plan. As requested by the Joint Arts Committee (JAC) during the December meeting, Ms. Yoon provided more specific data regarding constructability on the Step Well and Earth Ring designs. This update included findings on engineering, fabrication and associated costs.
      1. Step Well – In an effort to bring the art piece within budget, Ms. Yoon researched different scale options from 52 feet by 36 feet dimensions down to 28 feet by 18 feet. The estimated cost of the 28-by-18 option is $450,000, including a 10% contingency. While cost estimates on the laminated wood material are fairly firm, she is awaiting more accurate figures for the structural steel. This smaller scale model can accommodate approximately 60-70 people and will be slightly larger than the Red Wagon. Ms. Yoon believes there is a possibly of pushing this size a little larger and remain within budget. She reminded the committee, the scale may not be increased significantly since there is a point when the steel may not be concealed by wood if the structure is too large. Ms. Yoon explained the art piece should not compete with other prominent features in the park, such as the Pavilion. She added the new art piece should "play well with the other park features and the natural landscape." Proposed building materials to be used in Step Well include: 1) laminated glulam wood as the primary material; 2)

concealed steel tubes embedded in the wood structure; 3) steel plate and concrete pad, and 4) potentially, glass guardrail and stainless steel handrail.

2. Earth Ring – The original 72-foot, outer-ring dimension has been scaled down to a 50-foot diameter in efforts to stay within budget. While there were no cost estimates presented for the Earth Ring, Ms. Yoon has concerns this design will not be within targeted $450,000 budget. She plans to provide cost estimates for Earth Ring at the March JAC meeting.

B. Master Art Plan – *Meejin Yoon*

1. Art signs – The monument-style signs are estimated between $2,785 to almost $4,000 per sign, depending on the size of the sign. This estimate does not including installation. Potential art signage locations include: 1) 16 signs within the park; 2) 11 around the convention center; 3) 10 west of the park; and 4) four east of the park. Art plan projects add eights locations within the park. Ms. Yoon plans to come back to the committee next month with cost estimates from local fabricators.

2. Project siting options – Ms. Yoon reviewed the proposed sites for Step Well and Earth Ring. These sites were discussed during the Dec. 20 JAC meeting.
   a. Step Well – The following sites are under consideration for Step Well: 1) Site 4 – Promenade; 2) Site 5 – eastern Havermale Island; and 3) Site 8 – upper Lilac Bowl. Ms. Yoon's preference is Site 5 for Step Well. Leroy Eadie suggested moving Site 4 to the southwest corner of the Clock Tower meadow. Committee members were open to this new Site 4 location. Committee members liked the idea, but Berry Ellison explained this area will be leveled in order to accommodate vendor setup and bike racks. This change in landscape will take away the slope appeal the site currently possesses. The majority preferred Sites 5 and 8 for this art piece. Ms. Yoon will research the two locations and bring the preferred site location to the committee in March.
   b. Earth Ring – The following sites are under consideration for Earth Ring: 1) Site 1 – Conservation area; and 2) Site 2 – along the Centennial Trail across from the Bosch Lot. Chris Wright pointed out Site 2 probably has too many other issues and competing factors to make this location a valid consideration.

C. Recap on next steps – Ms. Yoon will call-in to the March JAC meeting. At that time, she will provide: 1) more firm cost estimates for Step Well; 2) cost estimates for Earth Ring; 3) the preferred site for Step Well; and 4) cost estimates for the art signs from local fabricators. Ms. Yoon will attend the April 12 Park Board meeting when the board will take action on the final art rendition and site.

D. Expo Butterflies – *Garrett Jones* provided an update on the Expo Butterflies. There are two remaining butterflies from the '74 World Fair. One serves as a gateway on the North Bank and the other is disassembled and in storage. The north gate butterfly is the priority, at this time. Parks is working with Garco and Coffman Engineer on the project. In April, Garco is expected to have costs on reconstructing and reinstalling the north gate butterfly. This butterfly will be installed to a new site just north of its

current location. The Red Wagon meadow is the proposed site for the second butterfly.

E. Memorial sculpture along Centennial Trail on Parks property – *Dr. Suzan Marshall* presented her proposal to donate a memorial sculpture to the community which would be installed along the Centennial Trail on Park property. In addition to being a memorial to her late husband, the sculpture is designed to carrying a message that a family can move forward in spite of a great loss. Ms. Marshall provided the group a sketch of the proposed metal sculpture which depicts a close-knit, intertwined family. The suggested location is between Monroe Street Bridge and The Inlander building on the south side of the Centennial Trail. Ms. Marshall gave some background on what inspired her to pursue artist Richard Warrington to create the art piece. After being reported missing Jan. 25, 2016, Dr. John Marshall's body was found in the Spokane River. The location she selected for the memorial is not far from the site where his body was discovered.
    a. Next steps – Garrett Jones suggested Parks reach out to Jim Frank of Kendall Yards and the West Central Neighborhood Council. He believes it would be wise to brief them on the proposed sculpture, and to seek their support. The committee asked for the following additional information, in order to proceed: 1) details on the proposed plaque and its language; 2) structural engineering information; 3) a line item budget; 4) a specific location; 5) a narrative and more refined drawing of the sculpture; 6) information on any potential lighting; and 7) additional information regarding shoreline restrictions. Chris Wright suggested following the same course which was taken with the Bearing Project. The committee requested this additional information be presented at the March JAC meeting.

3. **Adjournment** – The meeting adjourned at 4:13 p.m.

Next meeting is tentatively scheduled for 1 p.m. Thursday, March 22.

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SPOKANE RIVERFRONT PARK

ARTWORK

AGENDA

PROJECT UPDATE

CONSTRUCTABILITY REFINEMENT
PROJECT BUDGET

ART SIGNS

PROJECT SITING

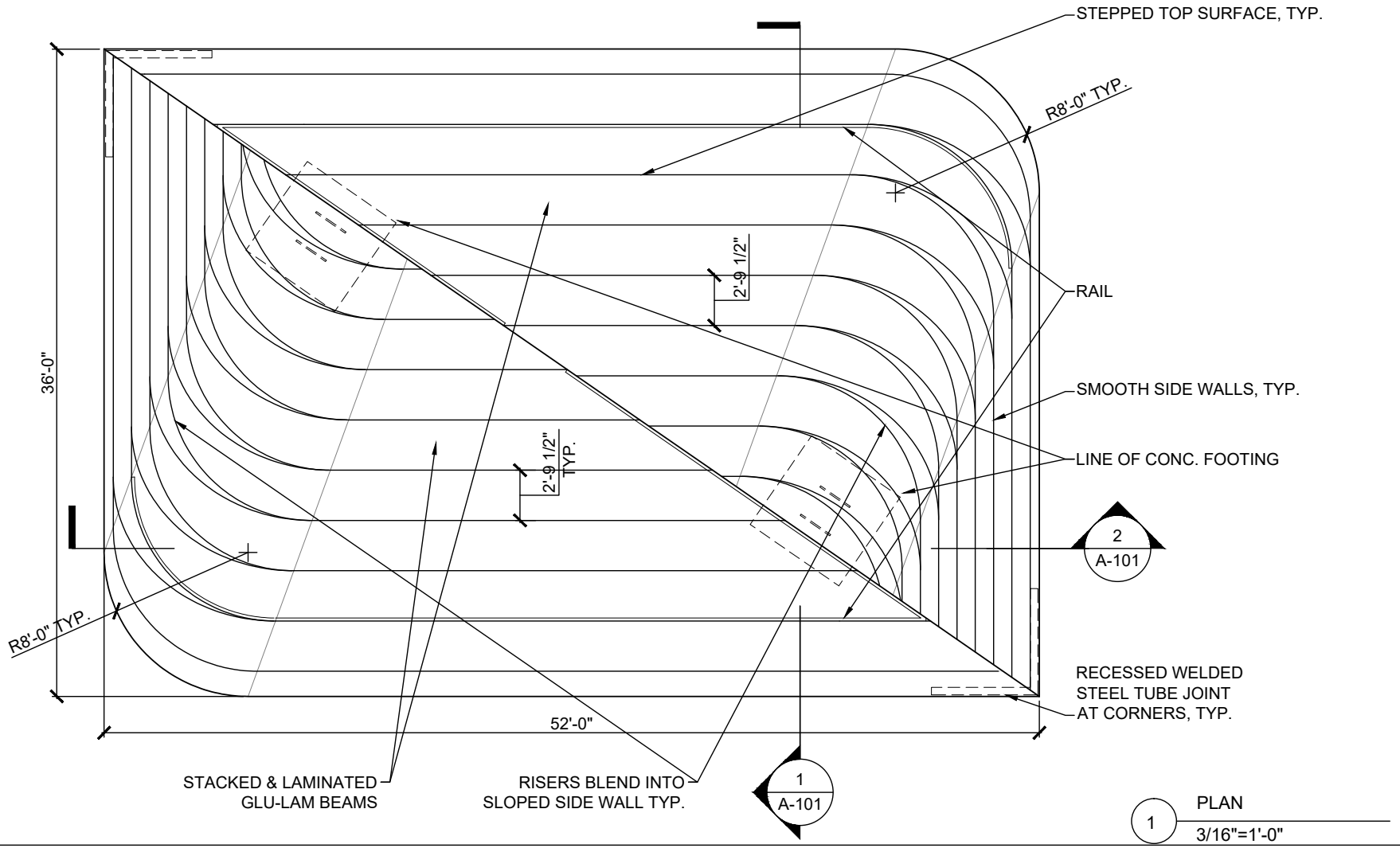
PROJECT UPDATE

STEP WELL

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111

STEPWELL
CONSTRUCTABILITY
REFINEMENT

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



1 PLAN
3/16"=1'-0"

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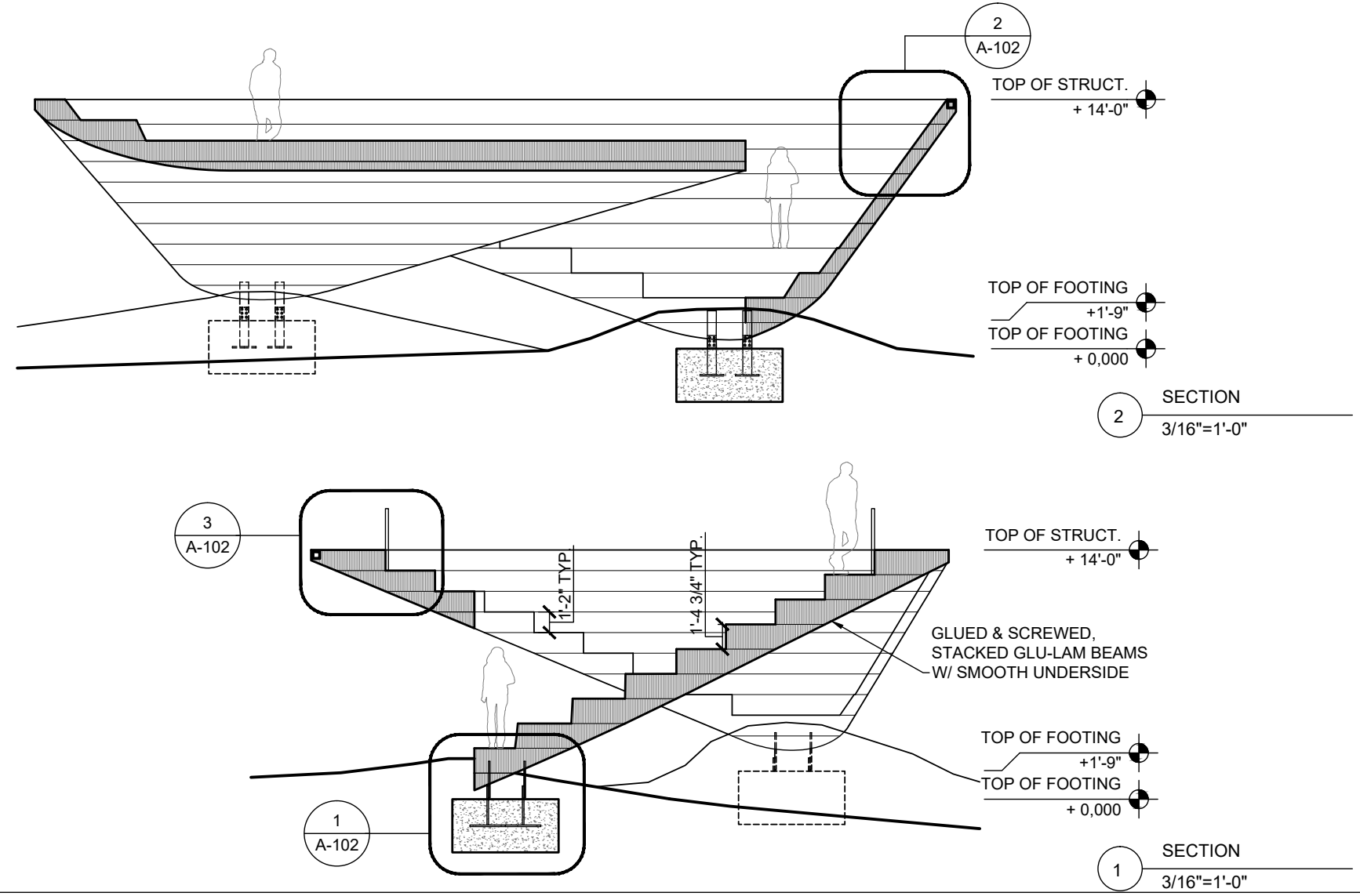
TITLE STEP WELL
PROJECT SPOKANE RIVERFRONT PARK JOB NO. 1610
DATE 12 DEC. 2017 SCALE VARIES DRAWN BY NL, NN

A-100

INITIAL PRICING DRAWINGS



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TITLE STEP WELL
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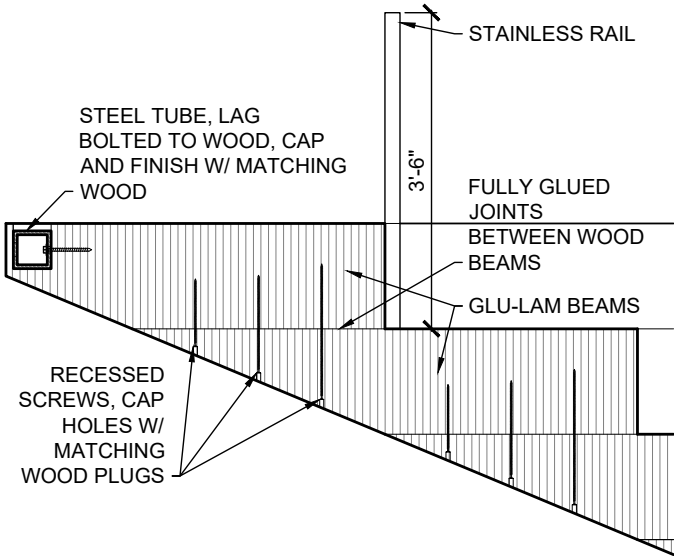
A-101

INITIAL PRICING DRAWINGS



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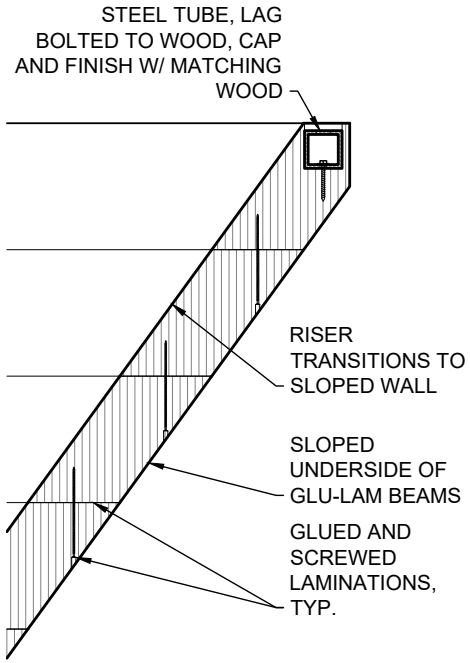

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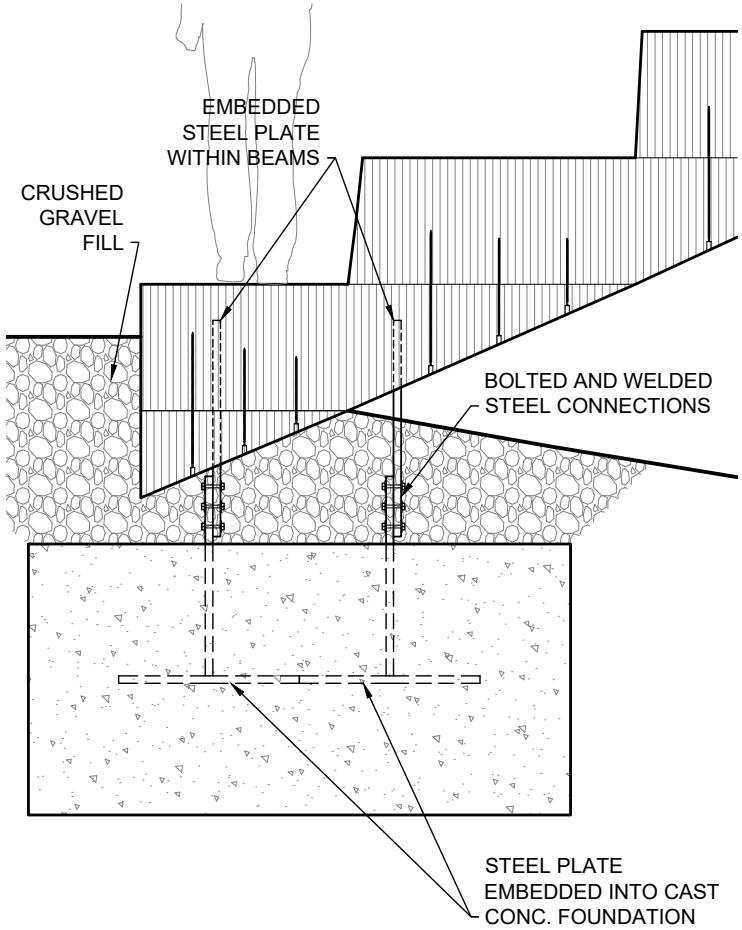

1 SECTION DETAIL
3/4"=1'-0"

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A-102

INITIAL PRICING DRAWINGS

Ian C. Schmellick, PE, LEED AP
Silman Associates
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Powell Draper, PE
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Sacramento, CA

Erica Spiritos
Structurlam
Portland, OR

Chris Carbone, PE
Bensonwood
Walpole, NH

Gordon D. Plume
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Chris Olson
Katerra Construction,
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Josh Robinson
Smartlam
Columbia Falls, MT

Levi Huffman
D R Johnson Lumber
Riddle, OR

John Mandere
Mandere Construction, Inc.
Rathdrum, ID

Mike Clark
Spokane Painting Pros
Spokane, WA

Gerrod Majeski
Garco Construction
Spokane, WA

Ed Brimer
Engraphix
St. Louis, MO

Tim Mahlich
Couturier Iron Craft
Comstock Park, MI

Gerald McGinness
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Joe Clark
Architectural Elements
Bellingham, WA

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Intelligence In Wood

Penticton, BC

KATERRA

Spokane, WA

DR Johnson
Wood Innovations
Riddle OR

THE G.R. PLUMME COMPANY

Ferndale, WA

REGIONAL FABRICATORS IDENTIFIED

STRUCTURLAM
Intelligence In Wood
Penticton, BC

DR Johnson
Wood Innovations
Riddle OR

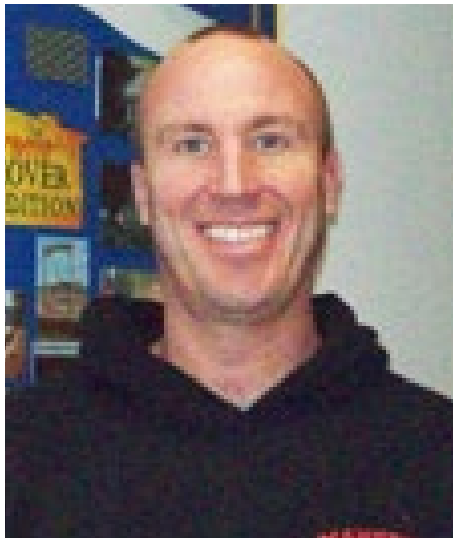
These facilities have capacity for fabricating Step Well parts

KATERRA
Spokane, WA

THE G.R. PLUMME COMPANY
Ferndale, WA

KRIS SPICKLER
Mass Timber Specialist
Structurlam/Heavy Timber Group
Sacramento, CA

ERICA SPIRITOS
Mass Timber Specialist
Structurlam
Portland, OR

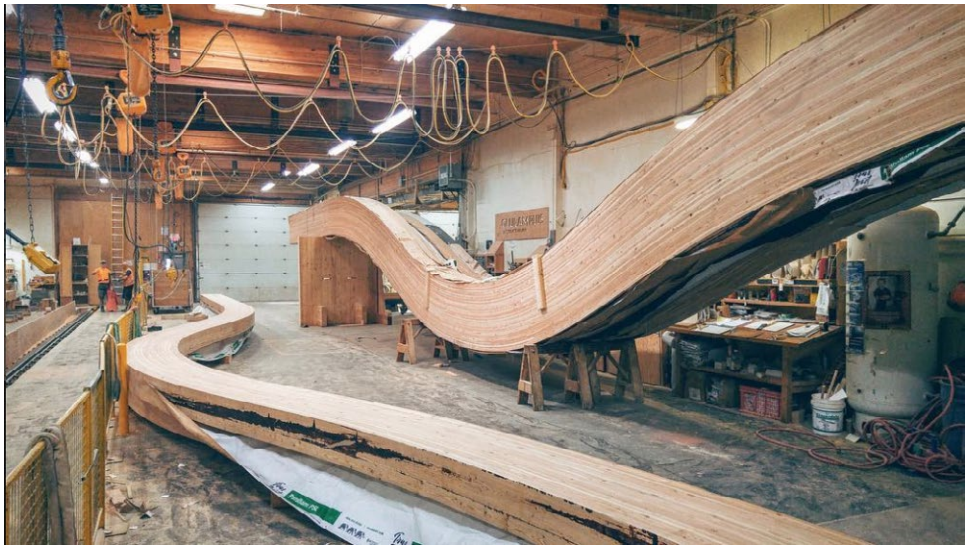


JOHN MANDERE
Mandere Construction, Inc.
Rathdrum, ID

STRUCTURLAM
Intelligence In Wood

MANDERE
M
CONSTRUCTION
Quality Framing

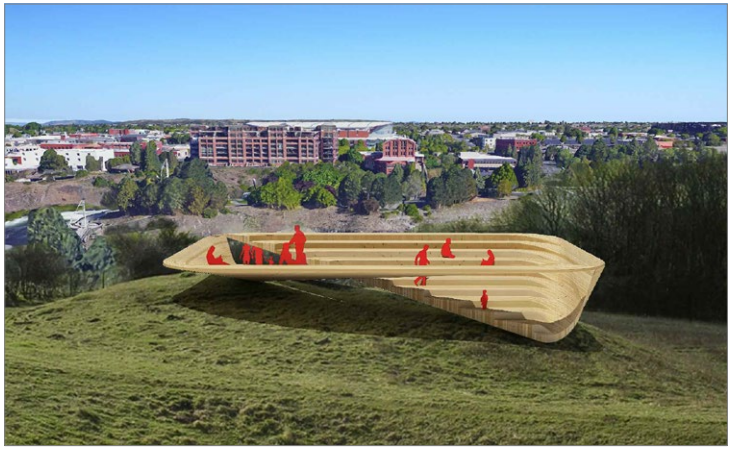
TIMBER COST ESTIMATION
BY STRUCTURLAM + MANDERE TEAM



STRUCTURLAM FABRICATION FACILITY

PENTICTON, BC

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



3 PERSPECTIVE FOR REFERENCE
N.T.S.

2 PERSPECTIVE FOR REFERENCE
N.T.S.

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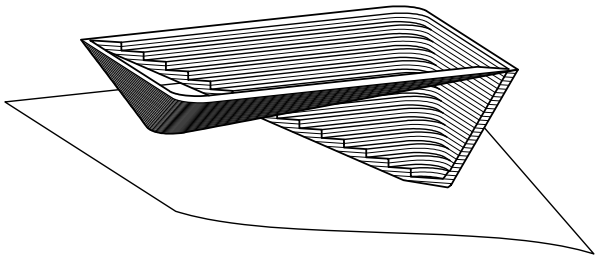

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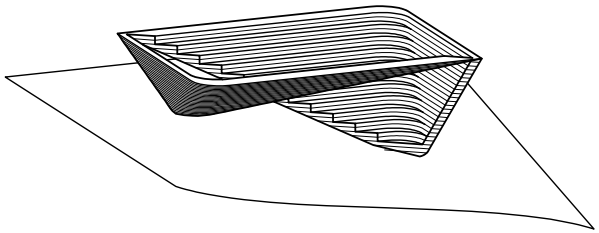

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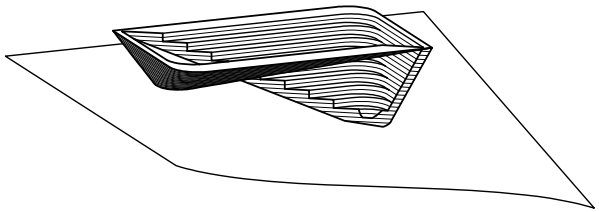

1 AXONOMETRIC FOR REFERENCE
N.T.S.

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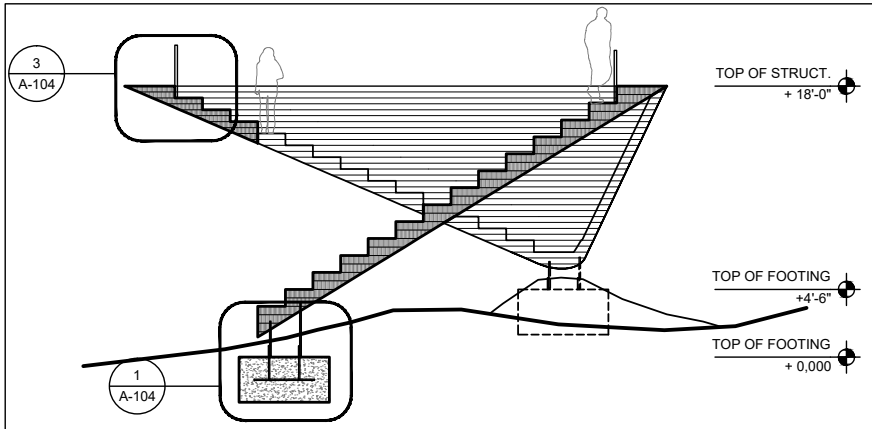
TITLE STEP WELL
PROJECT SPOKANE RIVERFRONT PARK JOB NO. 1610
DATE 14 JAN. 2018 SCALE 1/8" = 1'-0" DRAWN BY - NN, NL

A-100

REVISED PRICING DRAWINGS



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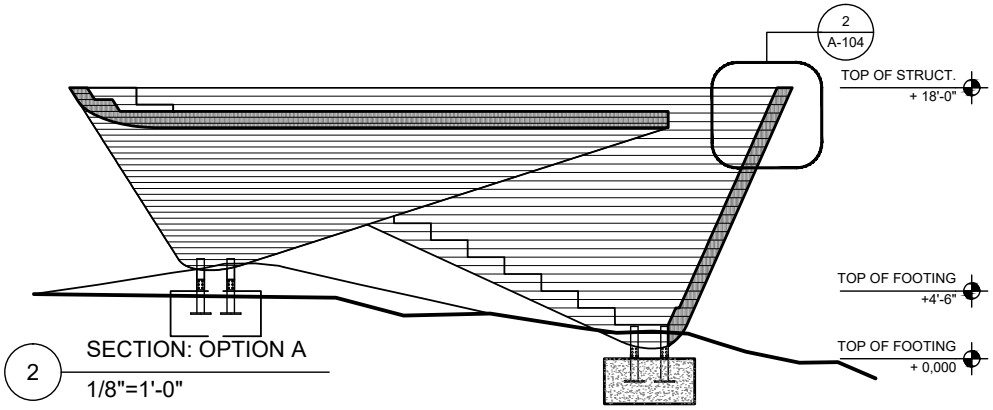

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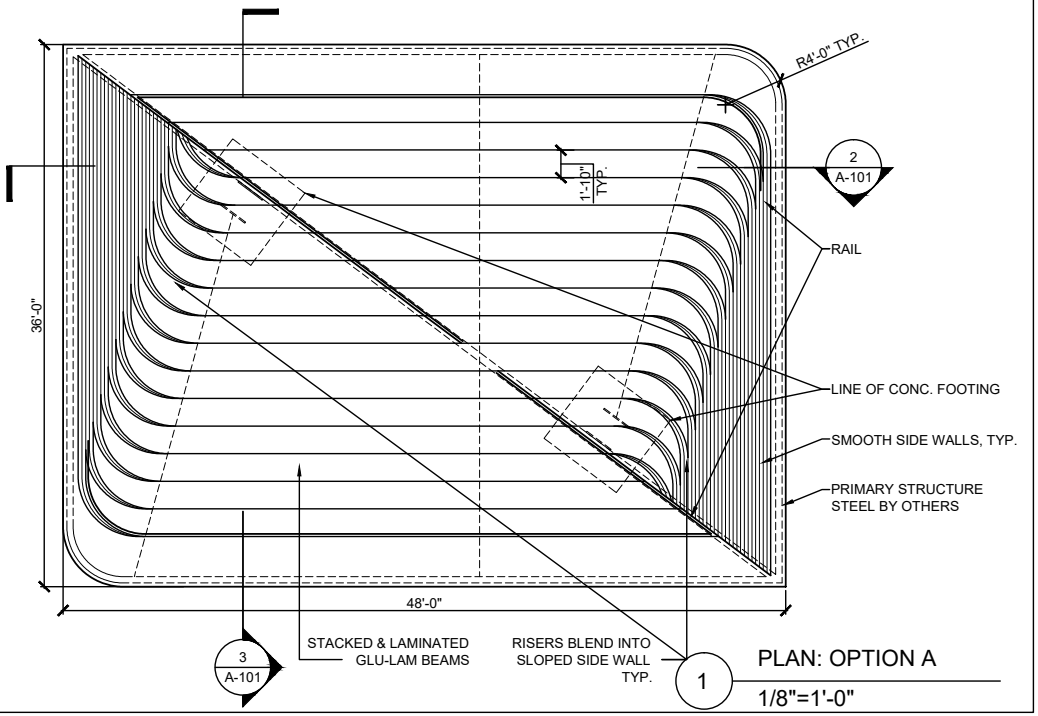

1 PLAN: OPTION A
1/8"=1'-0"

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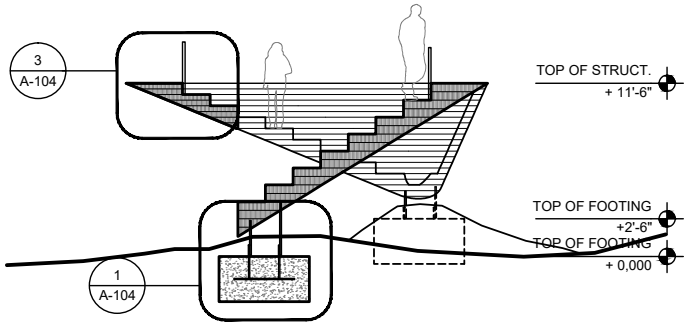

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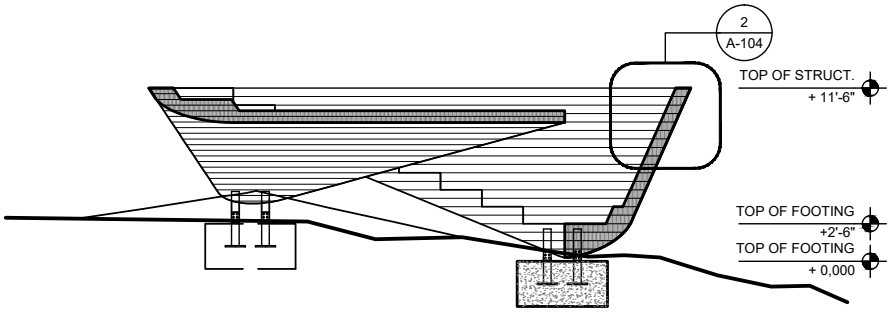

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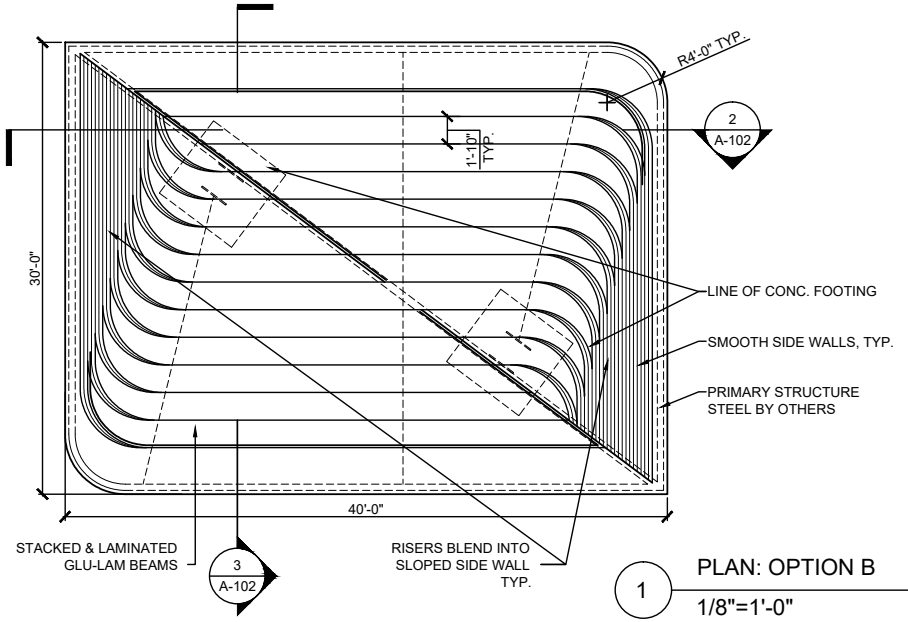

1 PLAN: OPTION B
1/8"=1'-0"

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A-102

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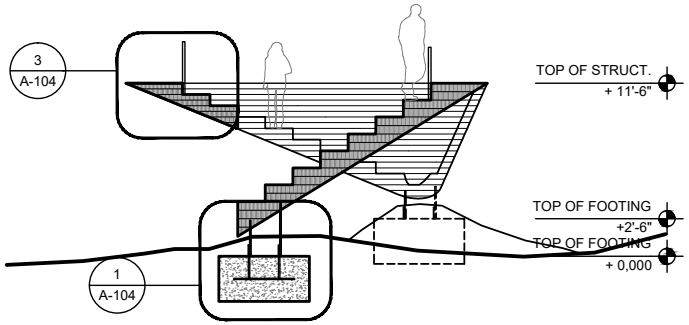

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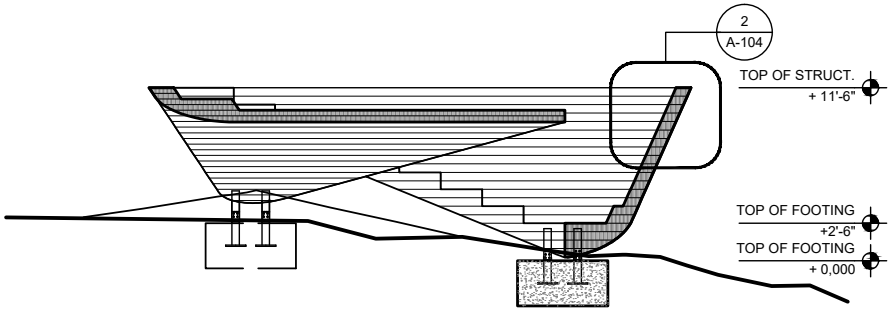

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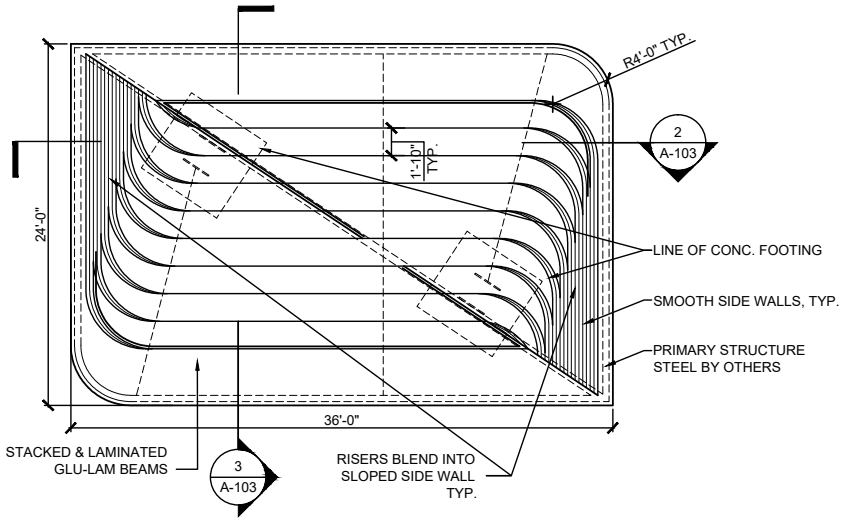

1 PLAN: OPTION C
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A-103

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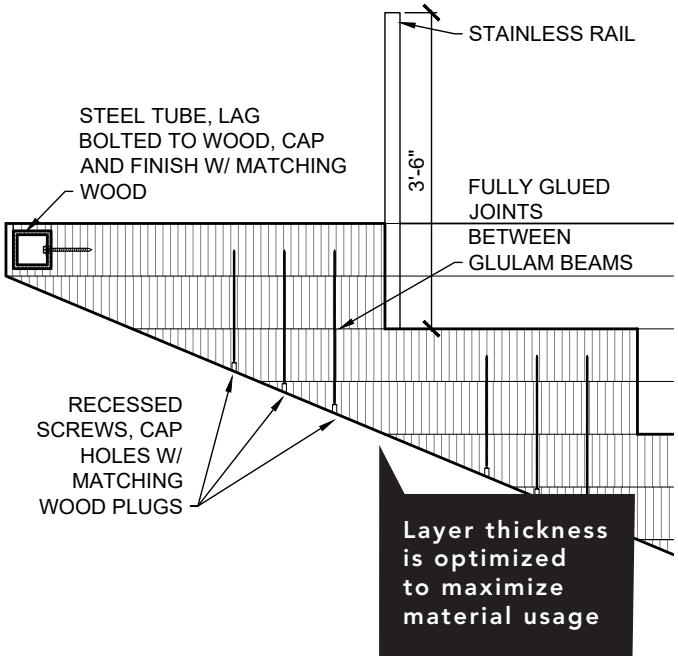

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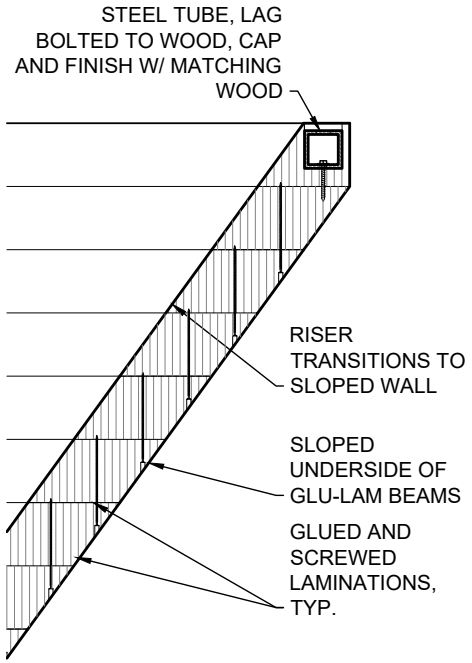

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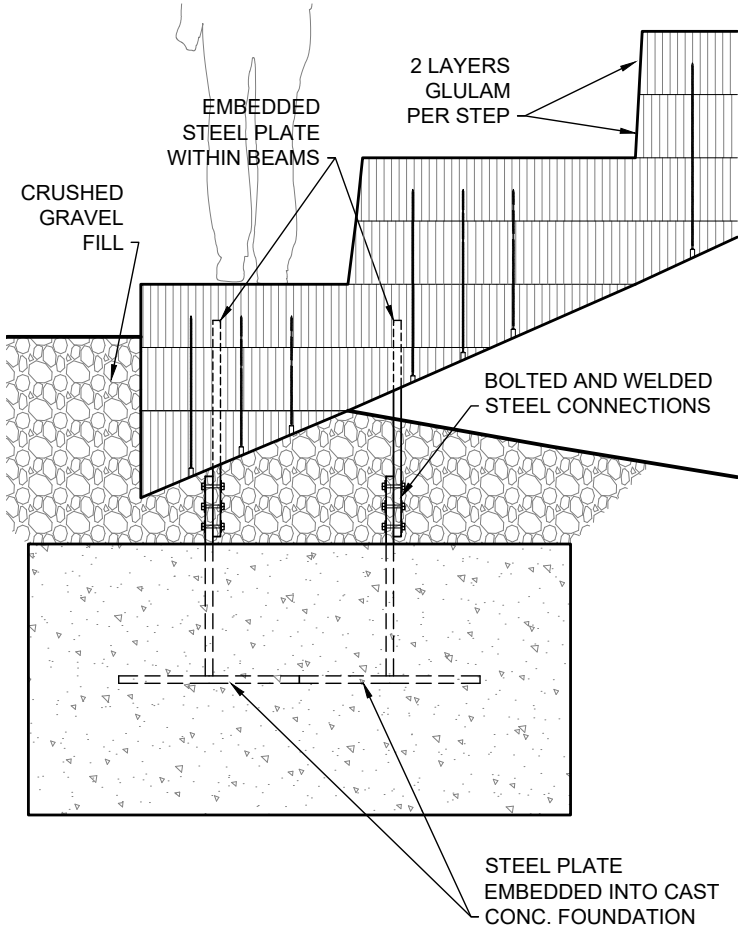

1 SECTION DETAIL
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A-104

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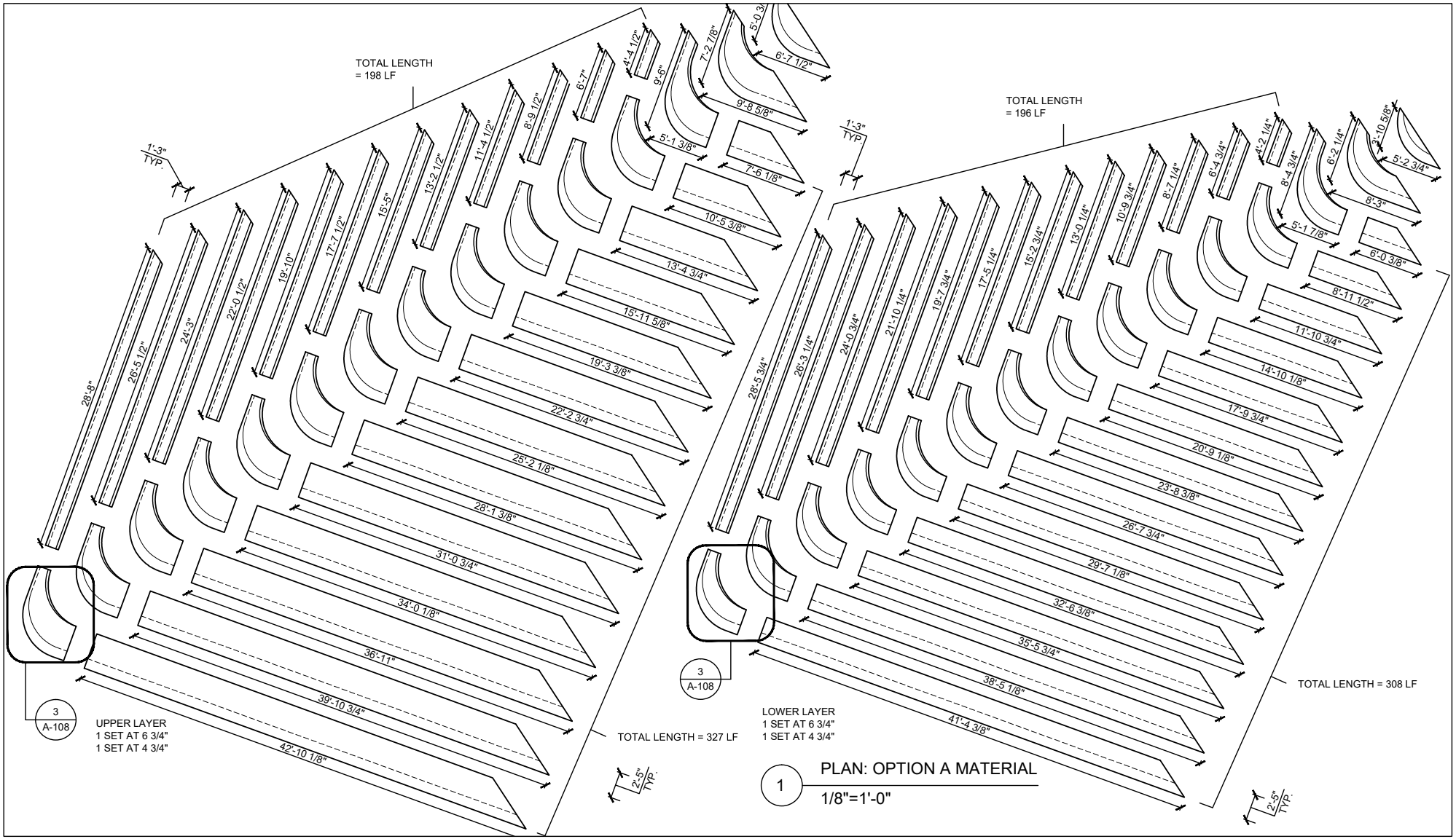

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TITLE	STEP WELL		A-105
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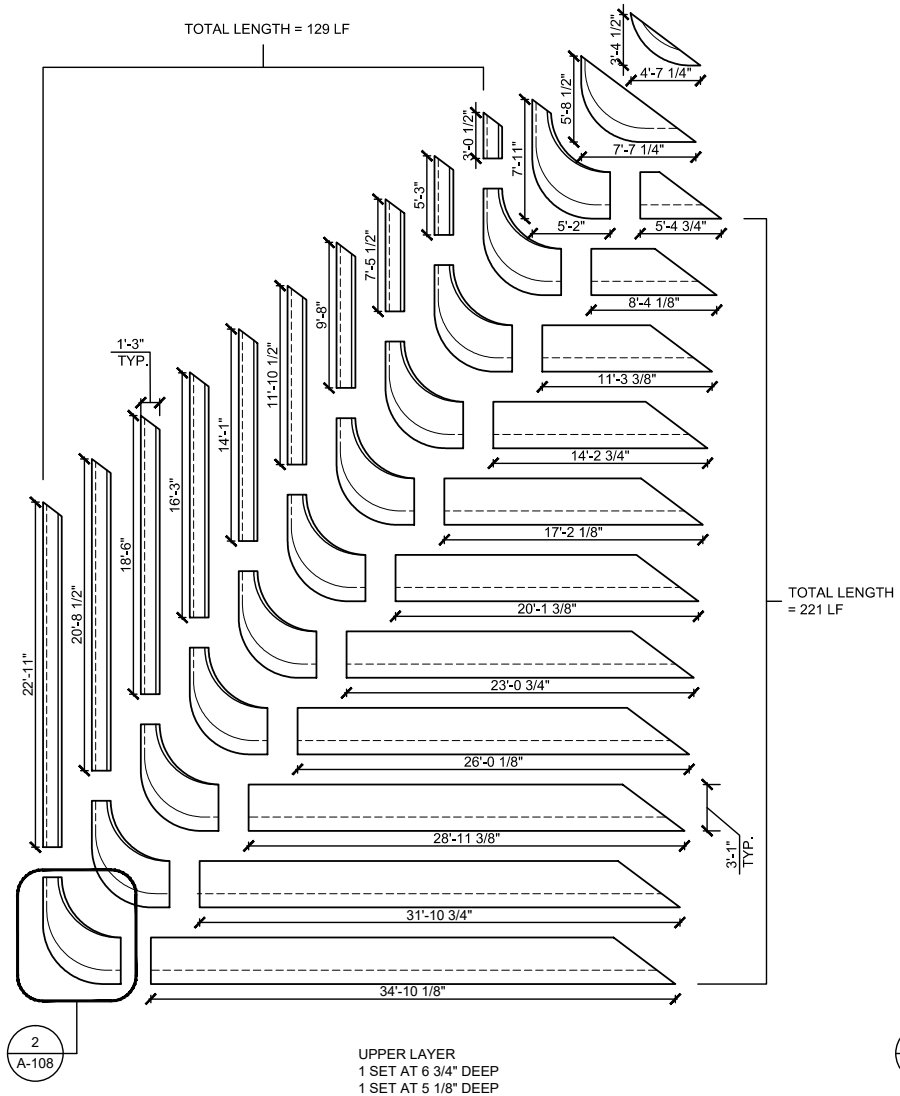

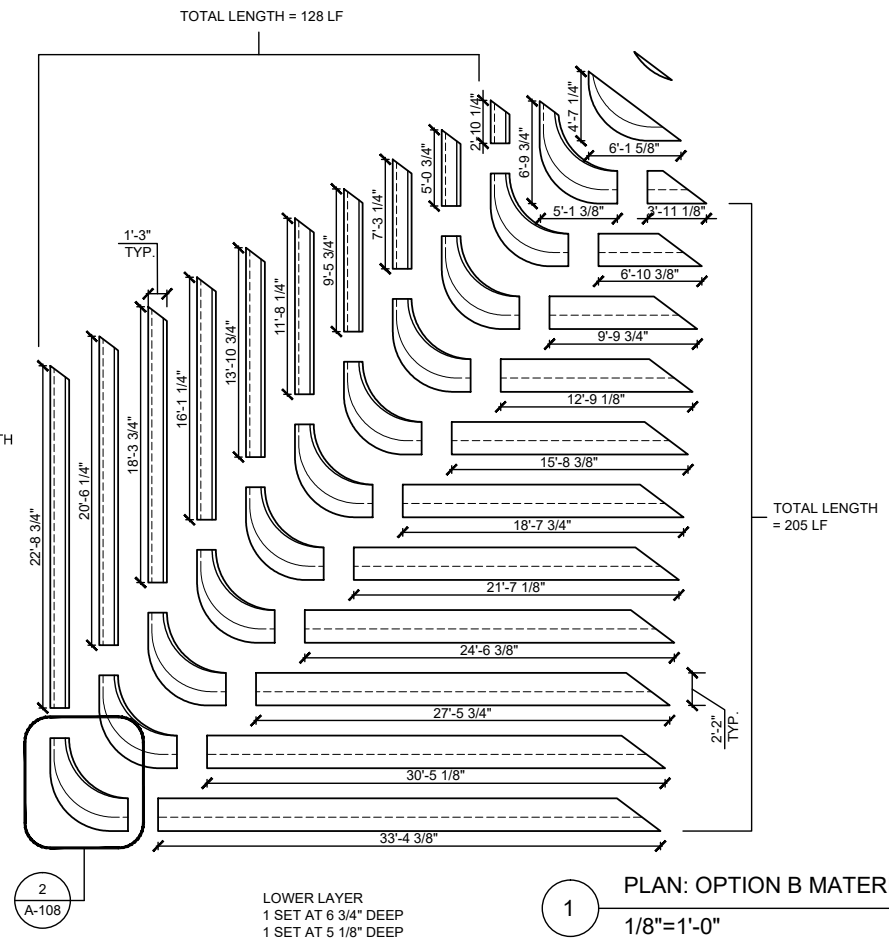

1 PLAN: OPTION B MATERIAL
1/8"=1'-0"

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TITLE	STEP WELL	A-106
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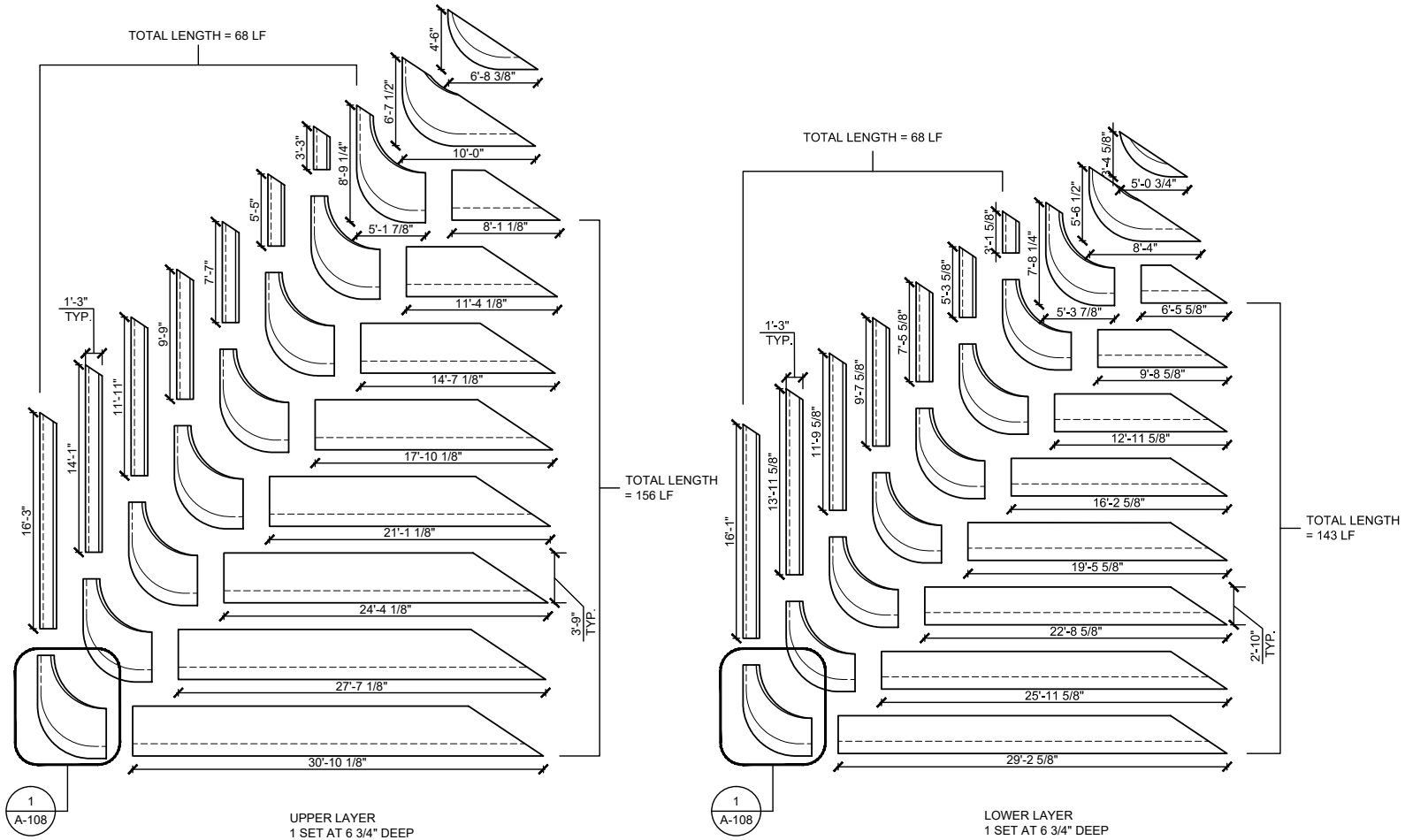

1 PLAN: OPTION C MATERIAL

1/8"=1'-0"

Discretization of geometry reduces material waste

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TITLE	STEP WELL		A-107
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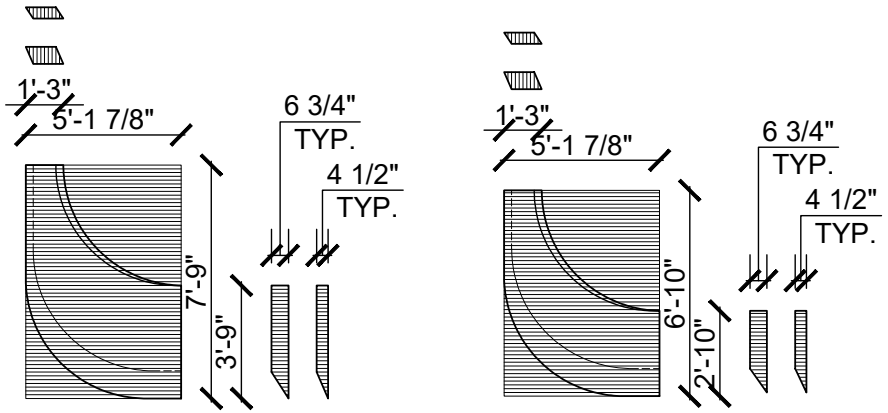
DATE	14 JAN. 2018	SCALE 1/8" = 1'-0"	DRAWN BY - NN, NL

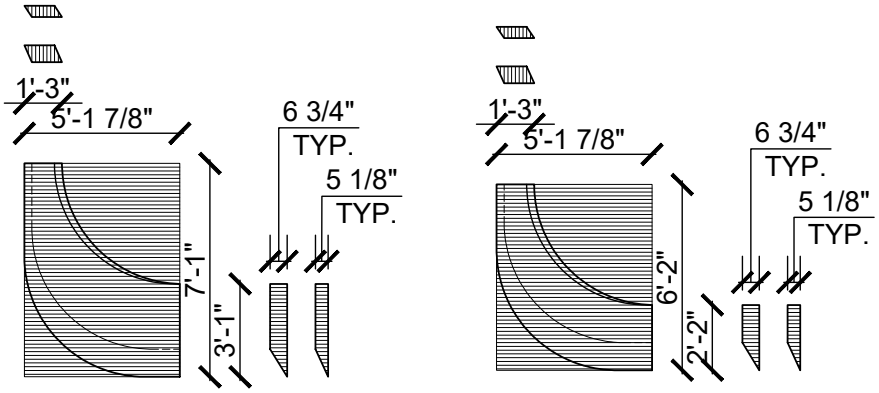
REVISED PRICING DRAWINGS



UPPER LOWER

3 PLAN DETAIL: OPTION C CORNER PIECES

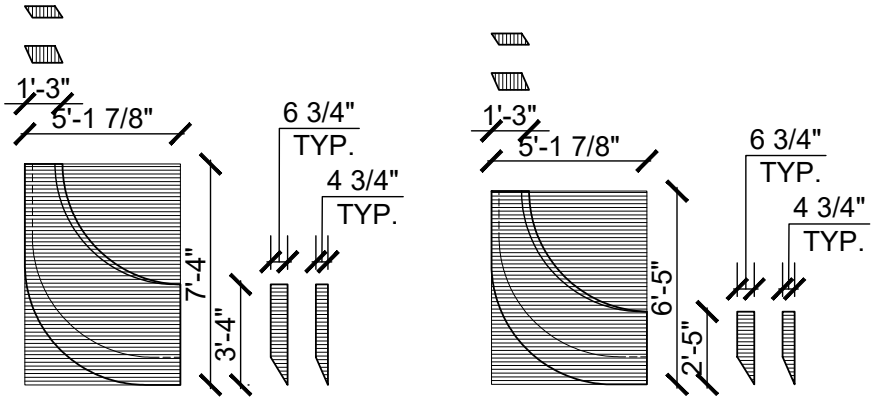
1/4"=1'-0"



UPPER LOWER

2 PLAN DETAIL: OPTION B CORNER PIECES

1/4"=1'-0"



UPPER LOWER

1 PLAN DETAIL: OPTION A CORNER PIECES

1/4"=1'-0"

HOWELER + YOON ARCHITECTURE LLP
150 LINCOLN STREET 3A
BOSTON, MA 02111
p/f: 617.517.4101
e: info@hyarchitecture.com

TITLE	STEP WELL	A-108
PROJECT	SPOKANE RIVERFRONT PARK JOB NO. 1610	
DATE 14 JAN. 2018	SCALE 1/8" = 1'-0" DRAWN BY - NN, NL	

REVISED PRICING DRAWINGS

STRUCTURLAM MASS TIMBER CORPORATION
2176 Government Street, Penticton, BC, V2A 8B5
Phone: (250) 492-8912, Fax: (250) 492-8906
email: sales@structurlam.com
www.structurlam.com

Version: {Beta(71)_171117}US

BUDGET

CUSTOMER: Höweler + Yoon Architecture
ATTENTION: Nancy Nichols
STREET ADDRESS: 150 Lincoln St. #3A
CITY/PROV/STATE: Boston MA
POST/ZIP CODE: 2111

REFERENCE: Step Well - Option C

DATE: February 8, 2018
PHONE: 617-517-4101
FAX:
MOBILE:
EMAIL: nnichols@hyarchitecture.com

QUOTE #: 180207ES-Opt C
VALID UNTIL: February 23, 2018

*As requested, we are pleased to provide our proposal for the supply of the Mass Timber **GLULAM** members based on the plan provided.*

SCOPE OF WORK

~ Supply only of AYC Glulam components - CNC framed for profiles only as per drawings/3D provided. NOTE: fiber orientation has been adjusted to meet manufacturing limitations.

~ 3D model provided must contain all information for framing as per Structurlam's requirements, and must be provided in a format acceptable to Structurlam. It is assumed that this model is to be final issued for construction version, and can be used for Production - approval drawings will not be sent out by Structurlam. Structurlam reserves the right to modify details or limit the framing provided on specific beams/panels should the framing details be outside of the capabilities of the CNC equipment.

SCOPE OF WORK	QTY	WEIGHT	$US
GLULAM MEMBERS:	**100**	**67,975**	$ 229,500.00
FACTORY APPLIED STAIN:			Not Applicable
TREATING:			Not Applicable
STEEL CONNECTIONS and HARDWARE:			Not Applicable
SHOP DRAWINGS:			Included
ENGINEERING:			By Others
ASSEMBLY:			Not Applicable
FREIGHT: 2 loads		**TOTAL LBS:** **67,975**	Included

PAYMENT & SHIPPING TERMS:

Purchaser is responsible for remittance of all applicable taxes

Terms: to be determined at time of order.

FOB: truckbed jobsite

		Sub-Total	**$ 229,500.00**
Tax %	Local Tax		Extra
Tax %	State Taxes		Extra
Total $US		**$**	**229,500.00**

See page 2 for Product Specifications

Purchaser is responsible for unloading of product. Two hours unloading time is included - additional unloading time is subject to additional charge. Weekend deliveries subject to additional charge. Quote is for one delivery unless noted otherwise. All costs associated with access to the delivery site are the responsibility of the Purchaser. Any costs due to lack of suitable access via paved roadway, capable of supporting and easily maneuvering a fully loaded tractor trailer will be the Purchasers responsibility. Drayage fees are excluded unless specifically noted otherwise.

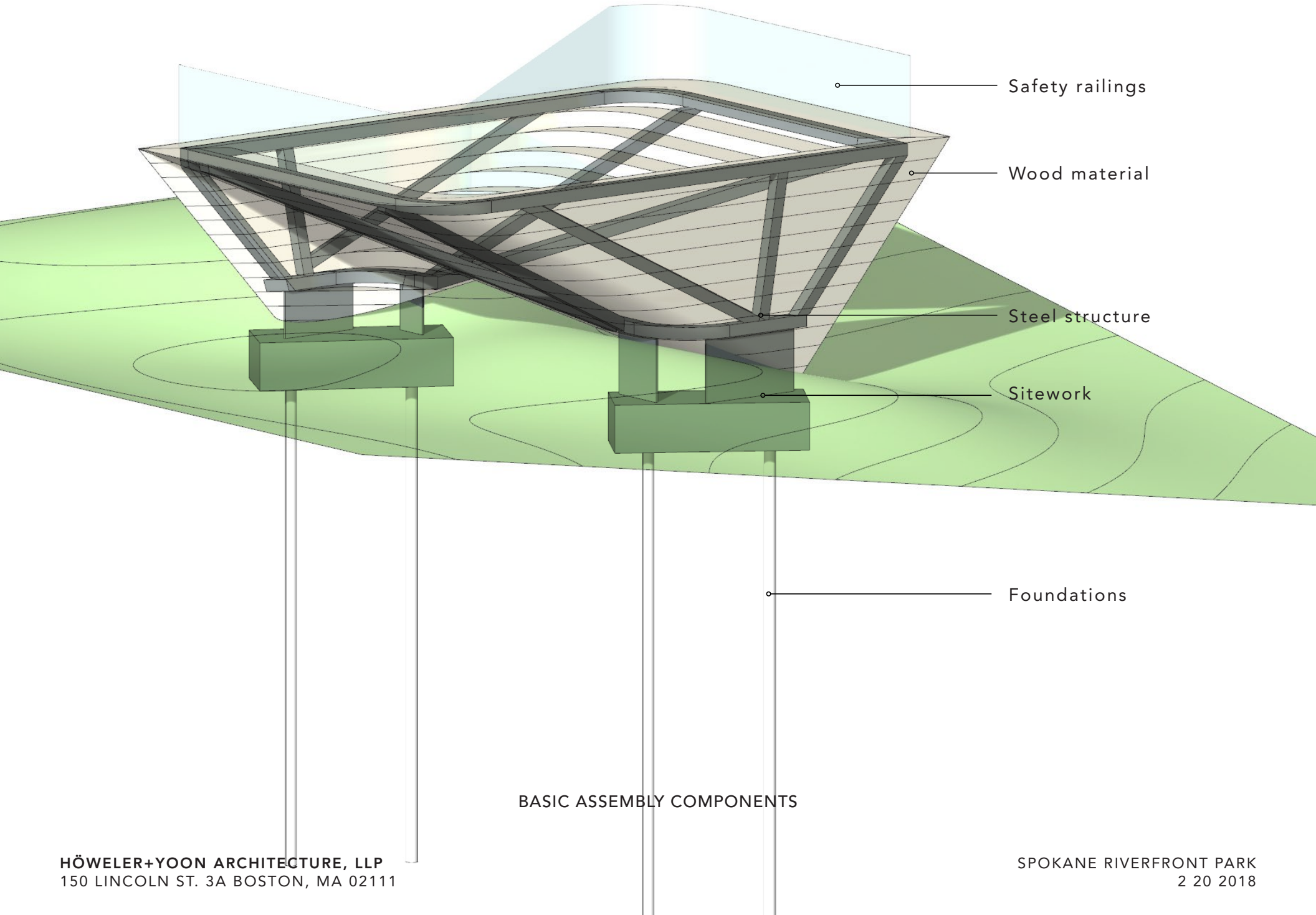
Project commencement is subject to scheduling, and receipt of either this returned signed PA, or a Letter of Intent referencing this PA # and date.

RECEIVED TIMBER PRICING FOR A RANGE OF SCALES

ALASKAN YELLOW CEDAR WOOD SPECIES FOR DURABILITY

SIMCOE WAVEDECK, TORONTO ONTARIO

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



BASIC ASSEMBLY COMPONENTS

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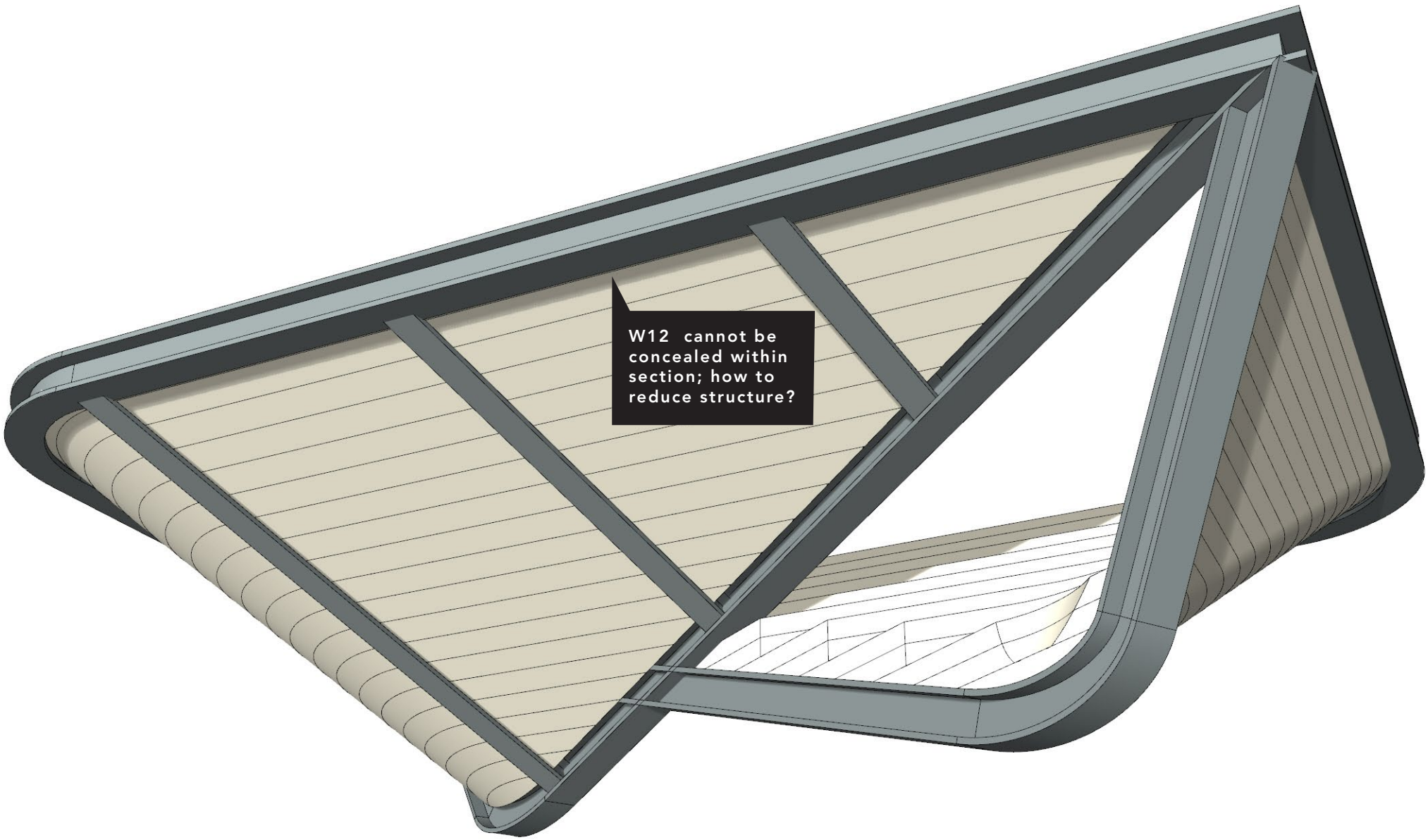
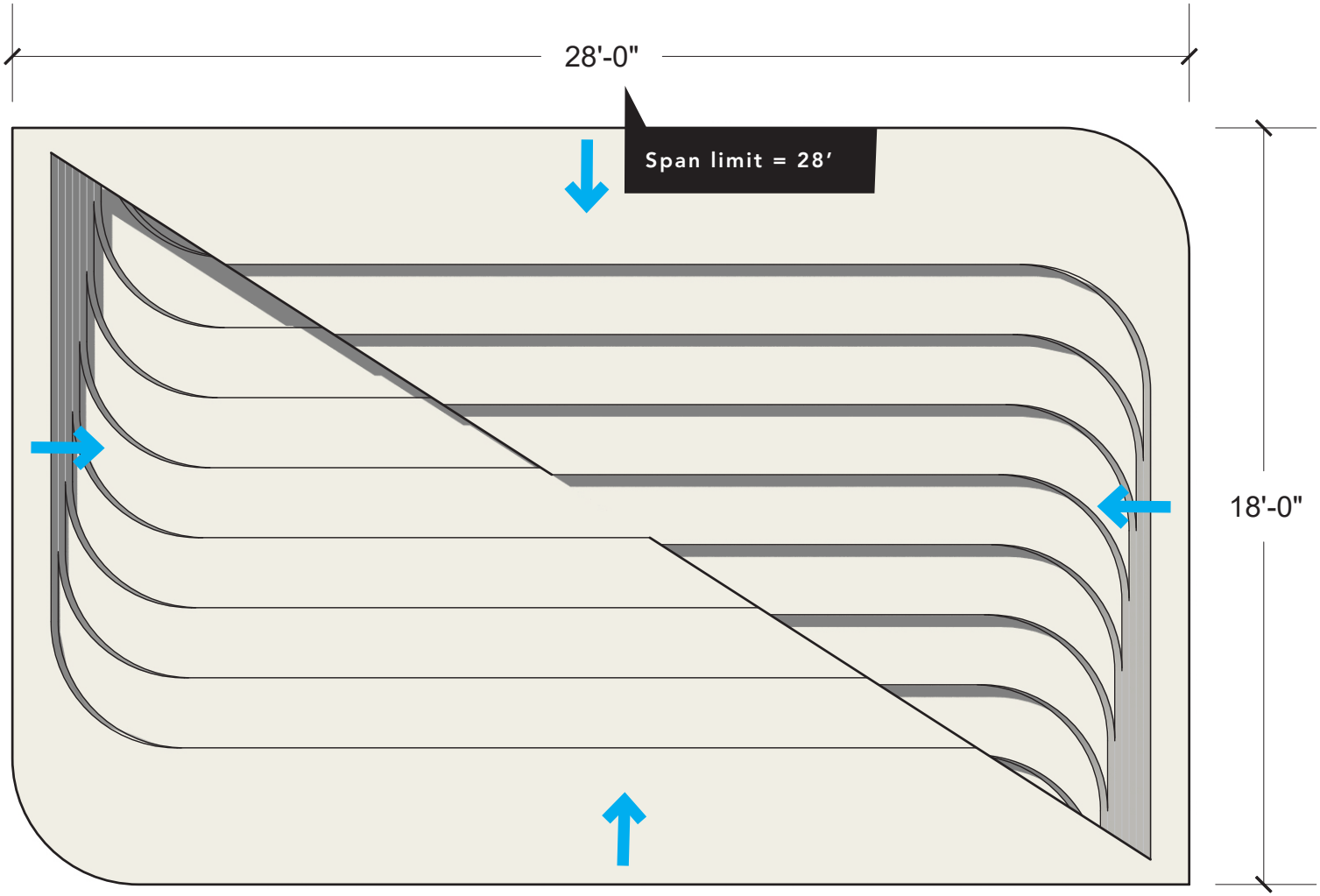
150 LINCOLN ST. 3A BOSTON, MA 02111

INITIAL STRUCTURAL MODEL REQUIRED 19 TON OF STEEL



INITIAL STRUCTURAL MODEL W/ WOOD FRAME



STRUCTURAL SPAN DIMENSION

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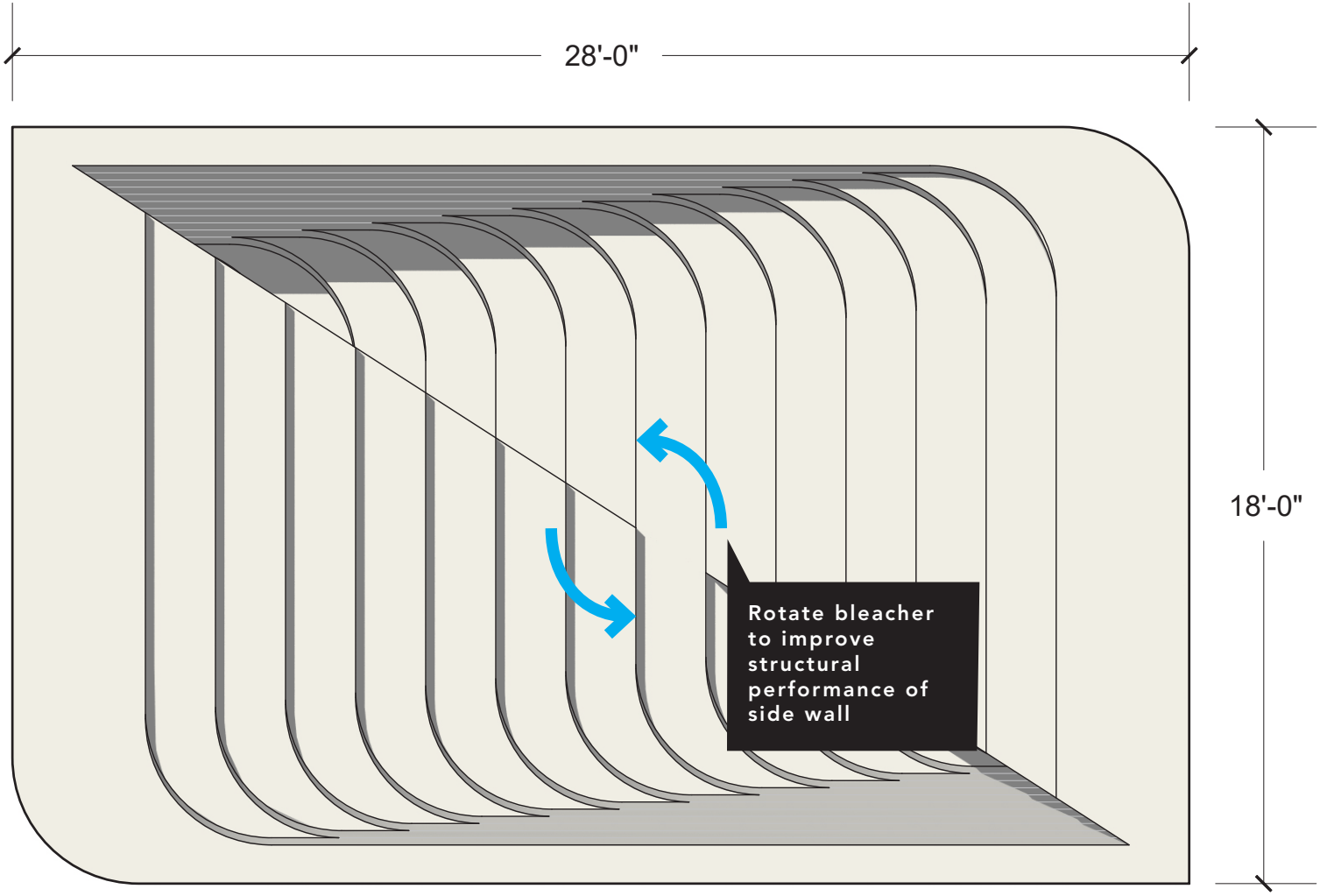
150 LINCOLN ST. 3A BOSTON, MA 02111



ROTATE BLEACHER

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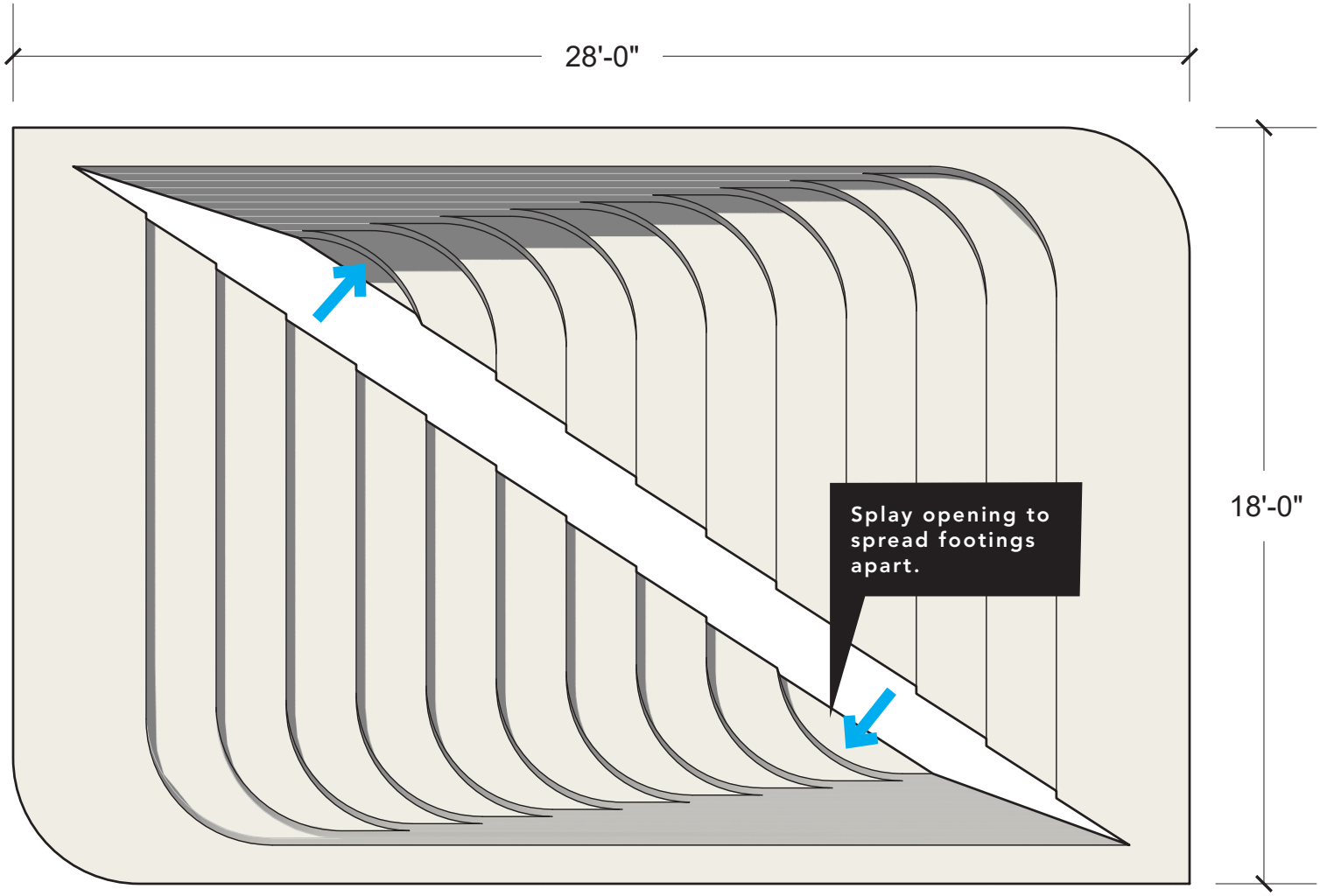
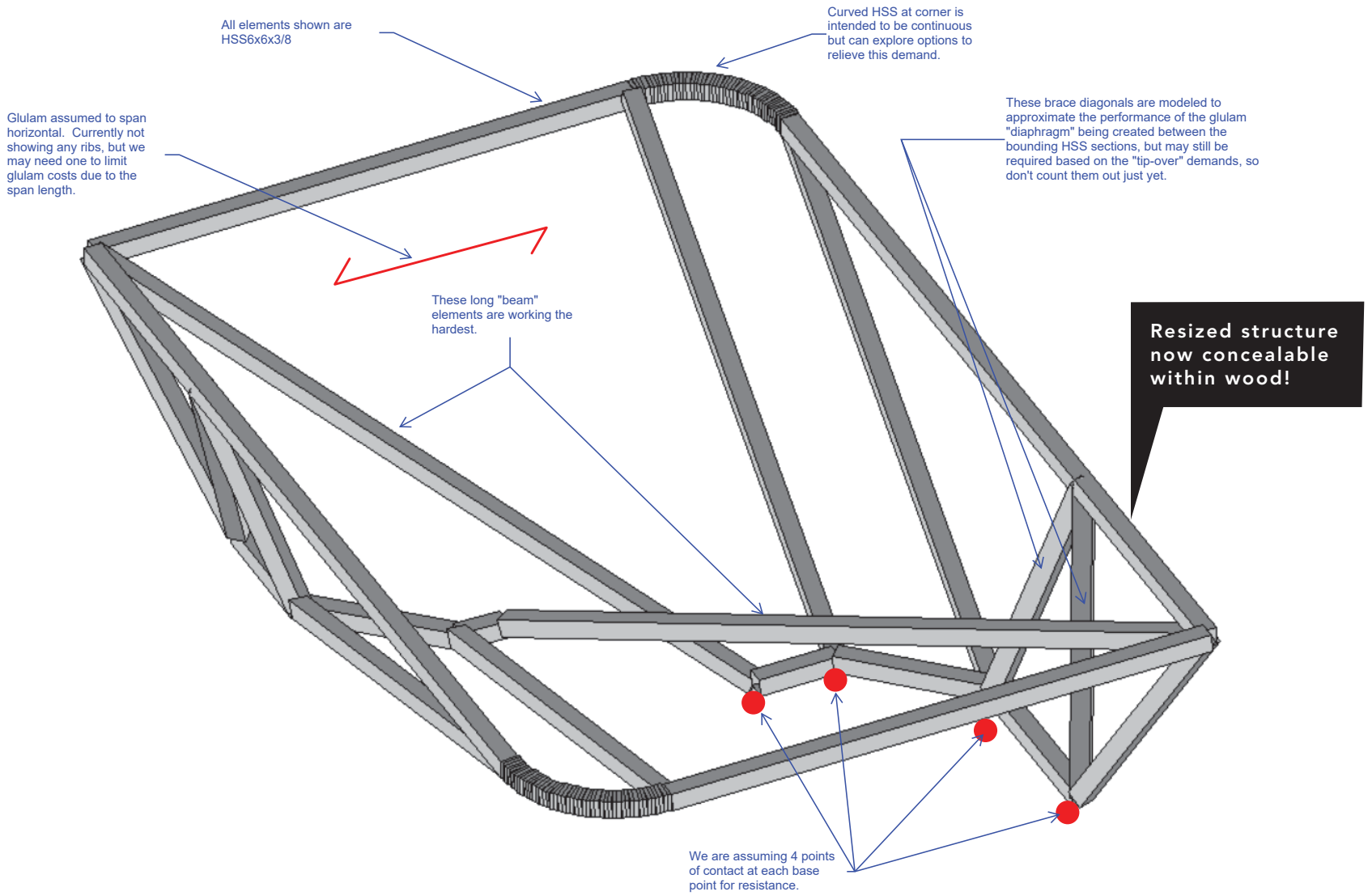
150 LINCOLN ST. 3A BOSTON, MA 02111



ADJUST BEARING LOCATIONS

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



REVISED STEEL STRUCTURE REQUIRES 5 TON OF STEEL

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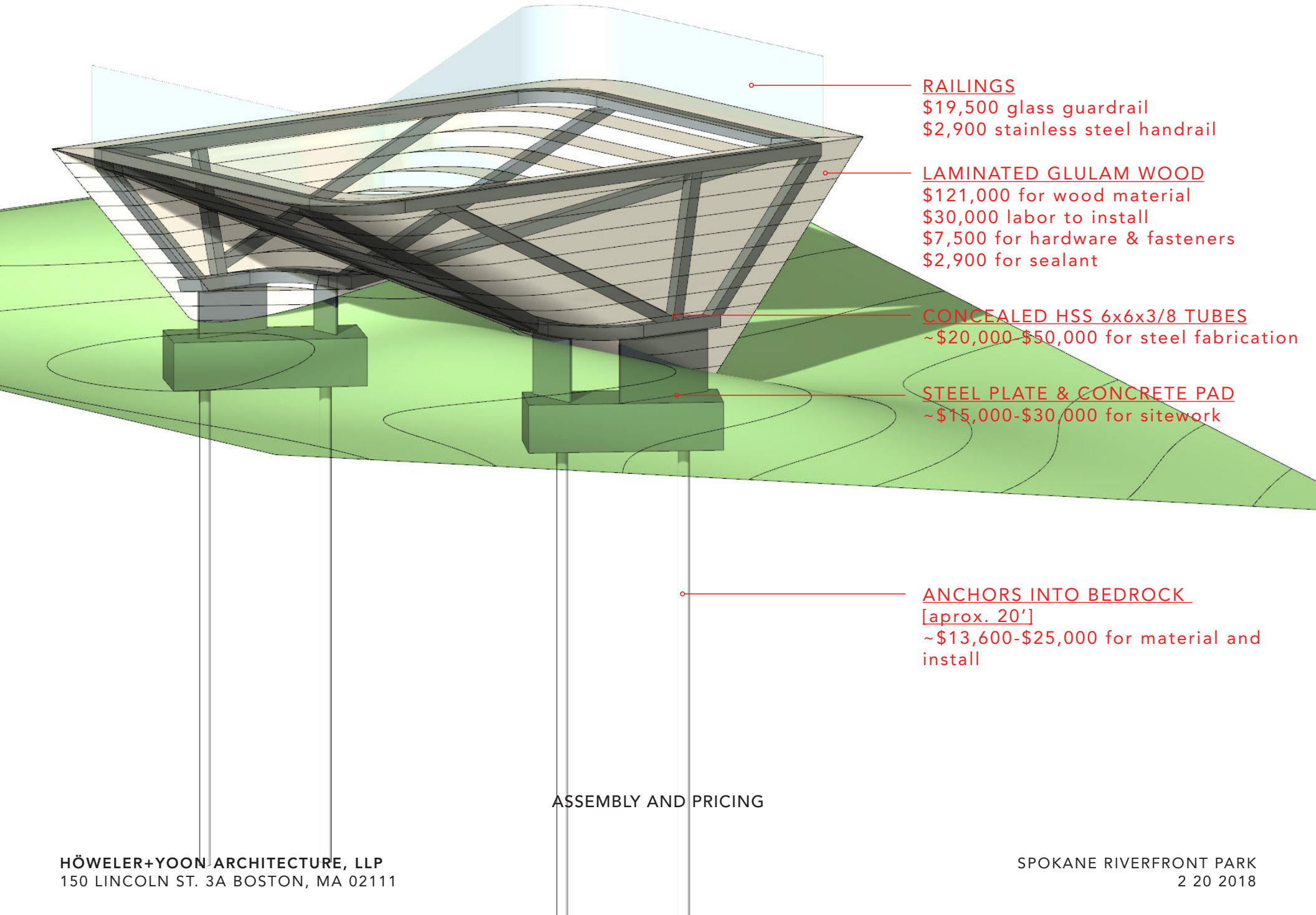
150 LINCOLN ST. 3A BOSTON, MA 02111



RAILINGS
$19,500 glass guardrail
$2,900 stainless steel handrail

LAMINATED GLULAM WOOD
$121,000 for wood material
$30,000 labor to install
$7,500 for hardware & fasteners
$2,900 for sealant

CONCEALED HSS 6x6x3/8 TUBES
~$20,000-$50,000 for steel fabrication

STEEL PLATE & CONCRETE PAD
~$15,000-$30,000 for sitework

ANCHORS INTO BEDROCK
[aprox. 20']
~$13,600-$25,000 for material and install

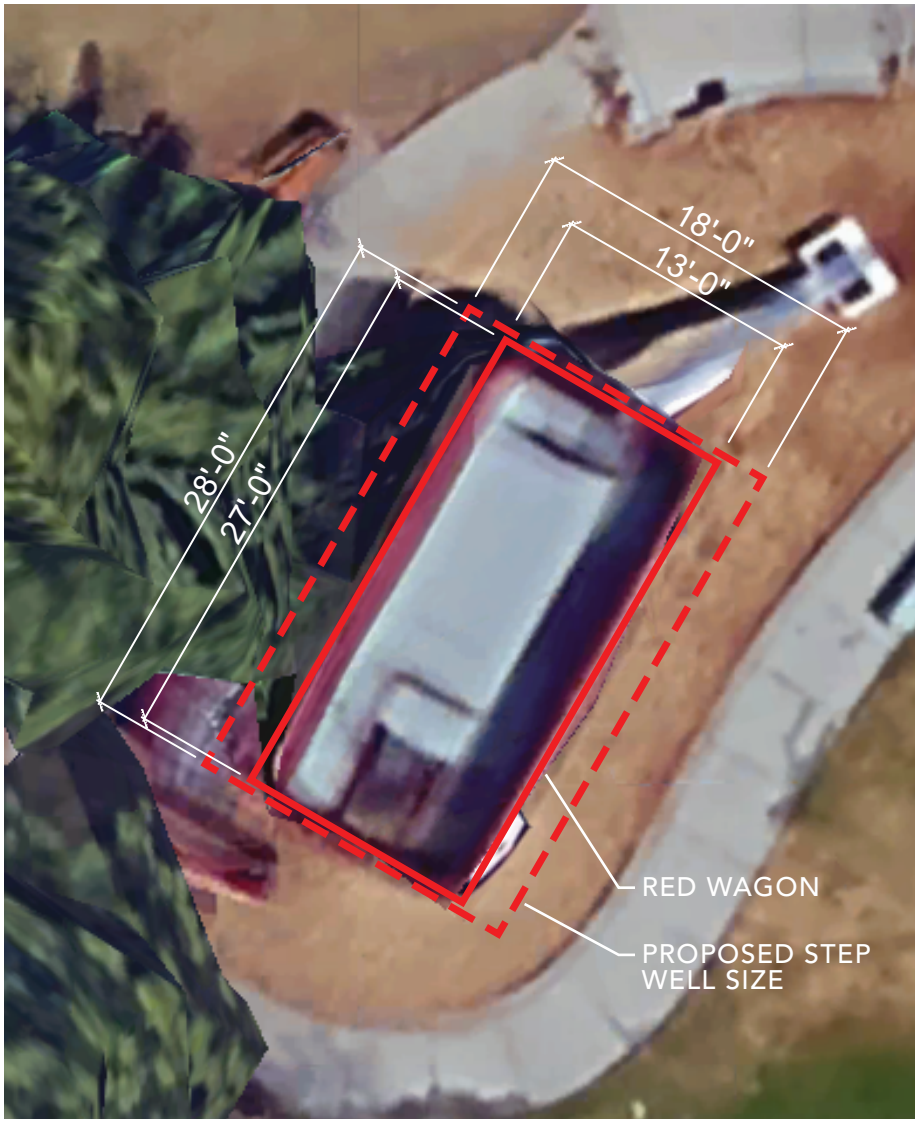
ASSEMBLY AND PRICING

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111

	STEPWELL	
	28'x18'x10'	
	60-70 seats	
	relevant information	pricing
FOUNDATIONS	4 anchors into bedrock 20’	**~$13,600-$25,000**
SITEWORK		**~$15,000-$30,000**
WOOD MATERIAL	~33,321 lbs / 550 cubic feet	**$121,000**
STEEL PRIMARY STRUCTURE	6x6x3/8 steel tube frame	**~$20,000-$50,000**
INSTALLATION		**$30,000**
HARDWARE / FASTENERS		**$7,500**
SEALANT reapply every 2-4 years	1,461 square feet	**$2,900**
RAILINGS		
$300 / linear foot for glass	65 lf glass	**$19,500**
$100 / linear foot of SS handrail	30 lf metal	**$3,000**
ENGINEERING		**$50,000**
SUB TOTAL		**$282,500-$338,900**

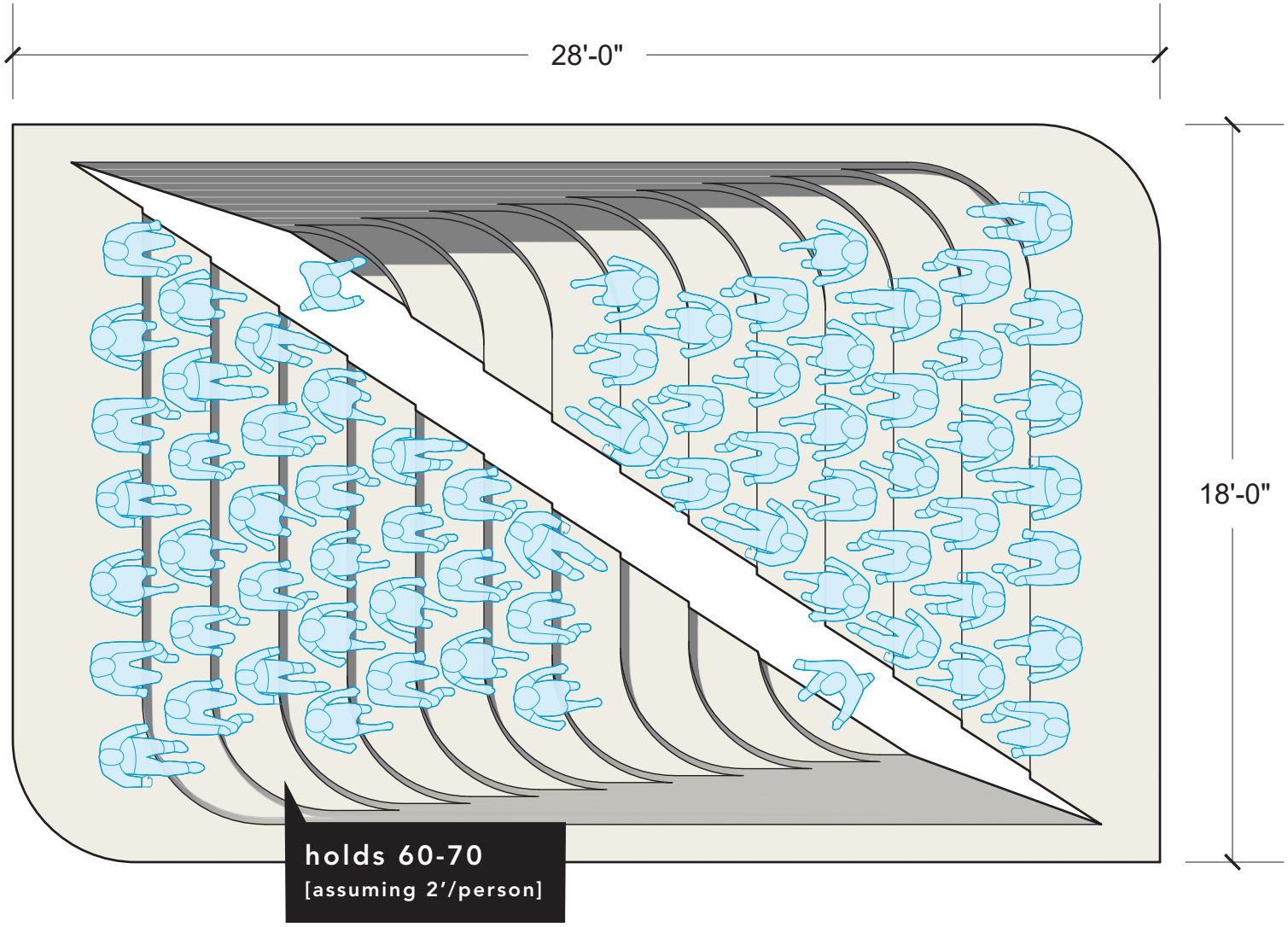
PLANNED PROJECT BUDGET		$365,000
10% CONTINGENCY		$45,000
TAXES		$40,000
TOTAL		$450,000

CURRENT BUDGET NUMBERS



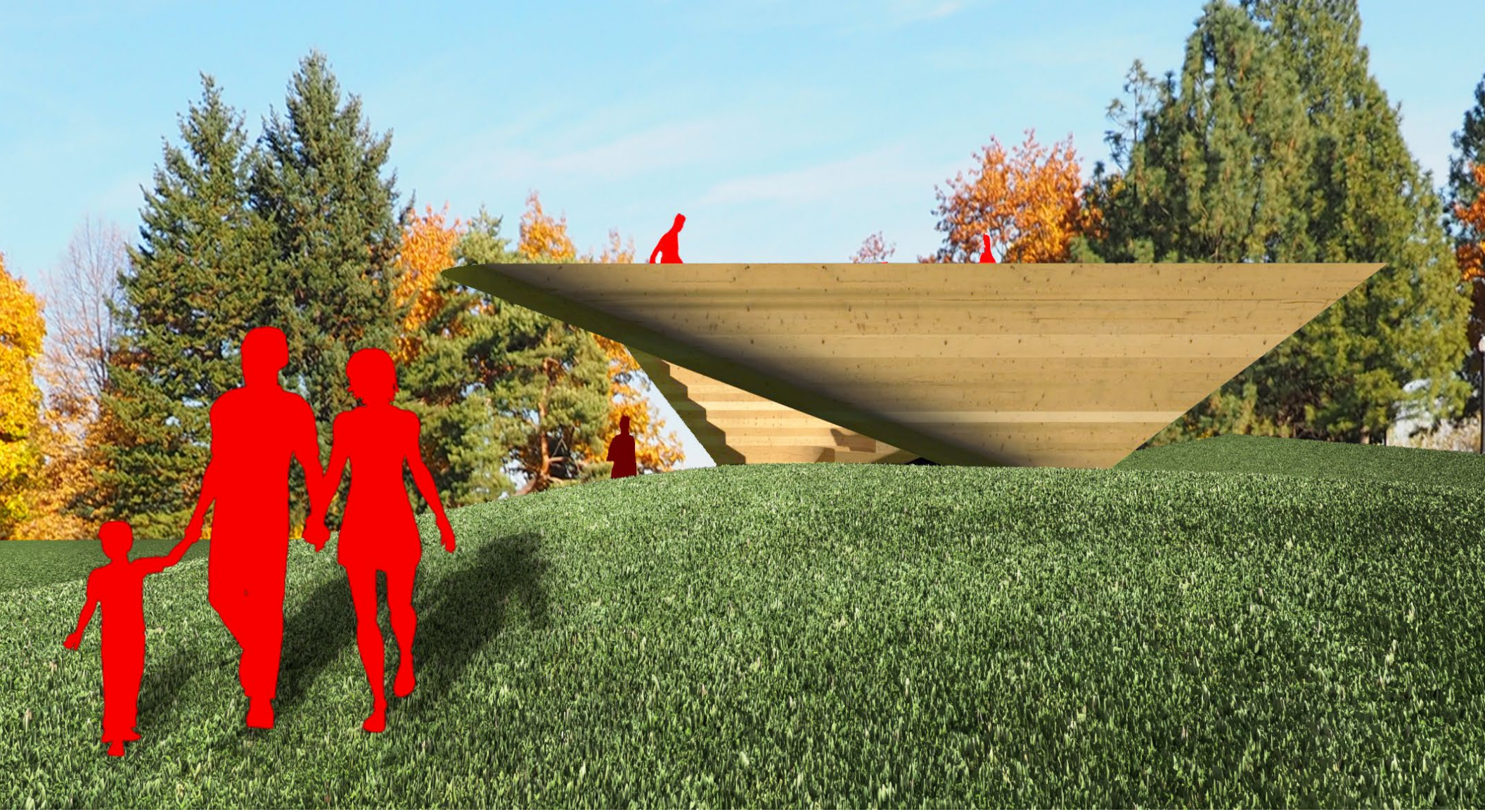
RED WAGON SIZE COMPARISON

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



OCCUPANCY

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111



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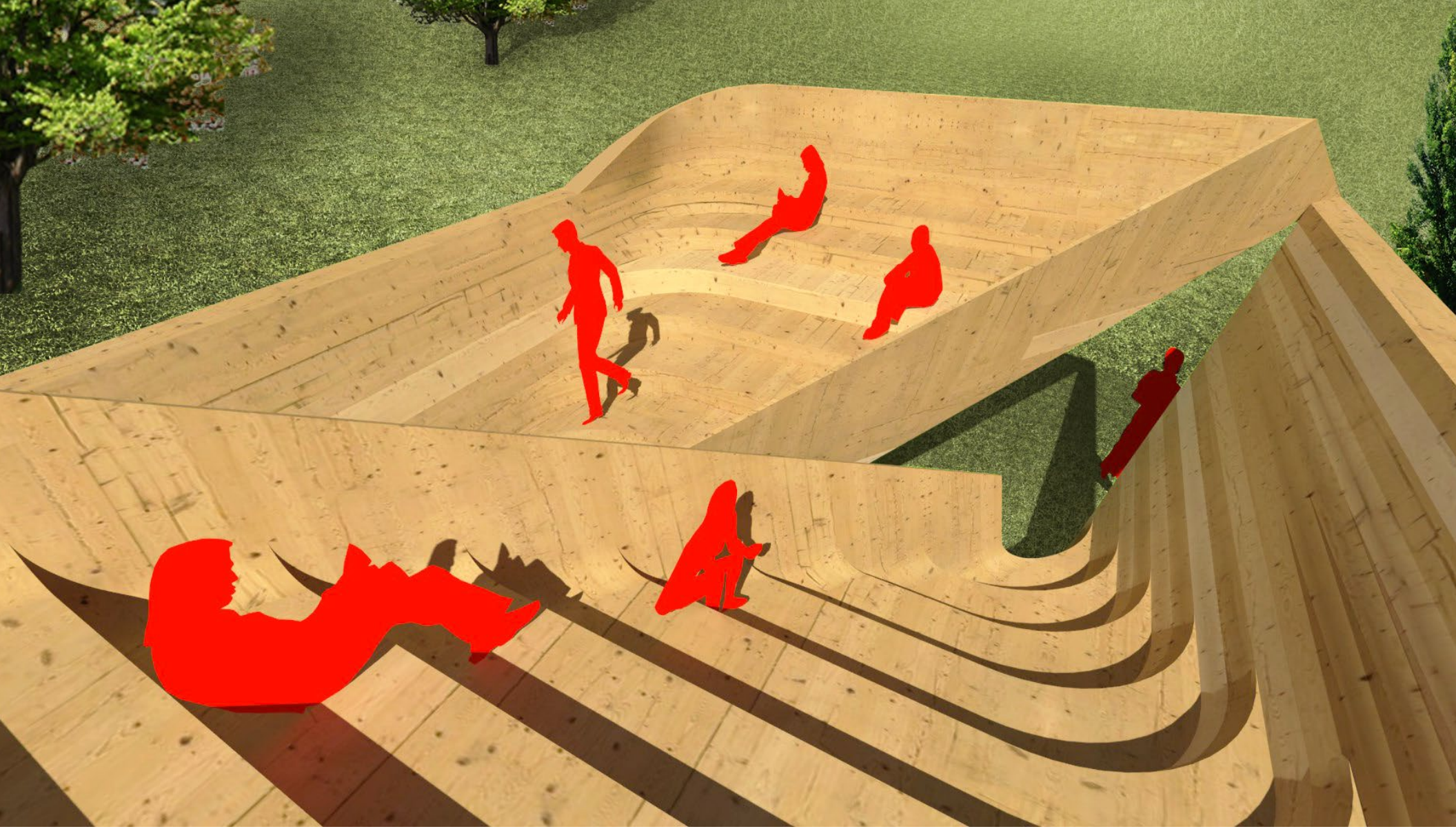

EARTH RING

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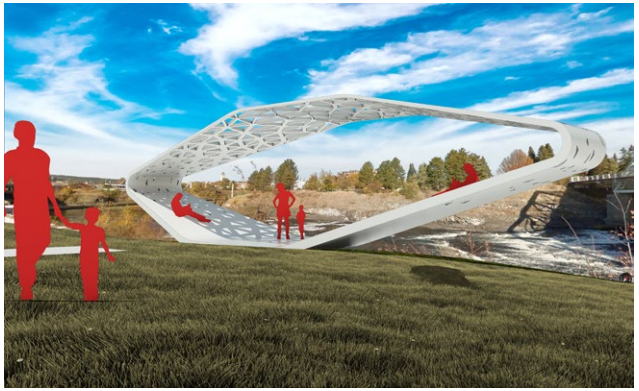
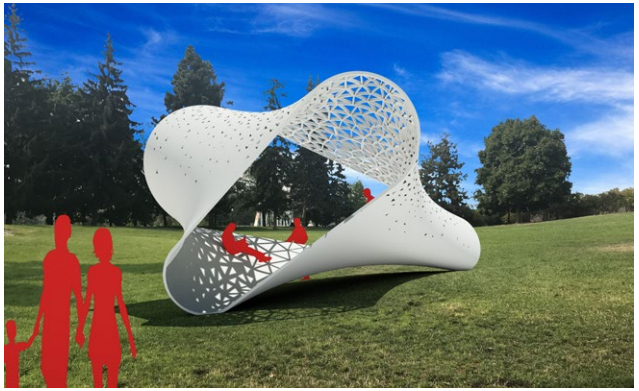
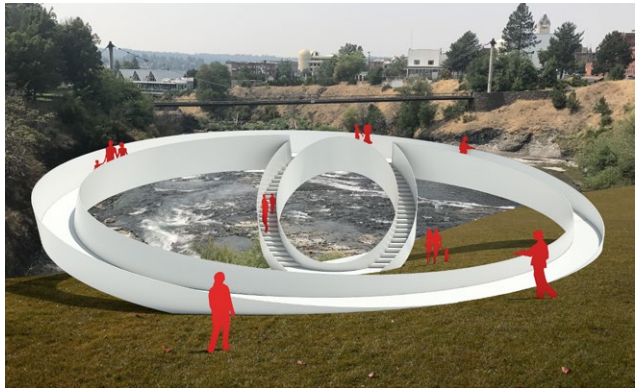


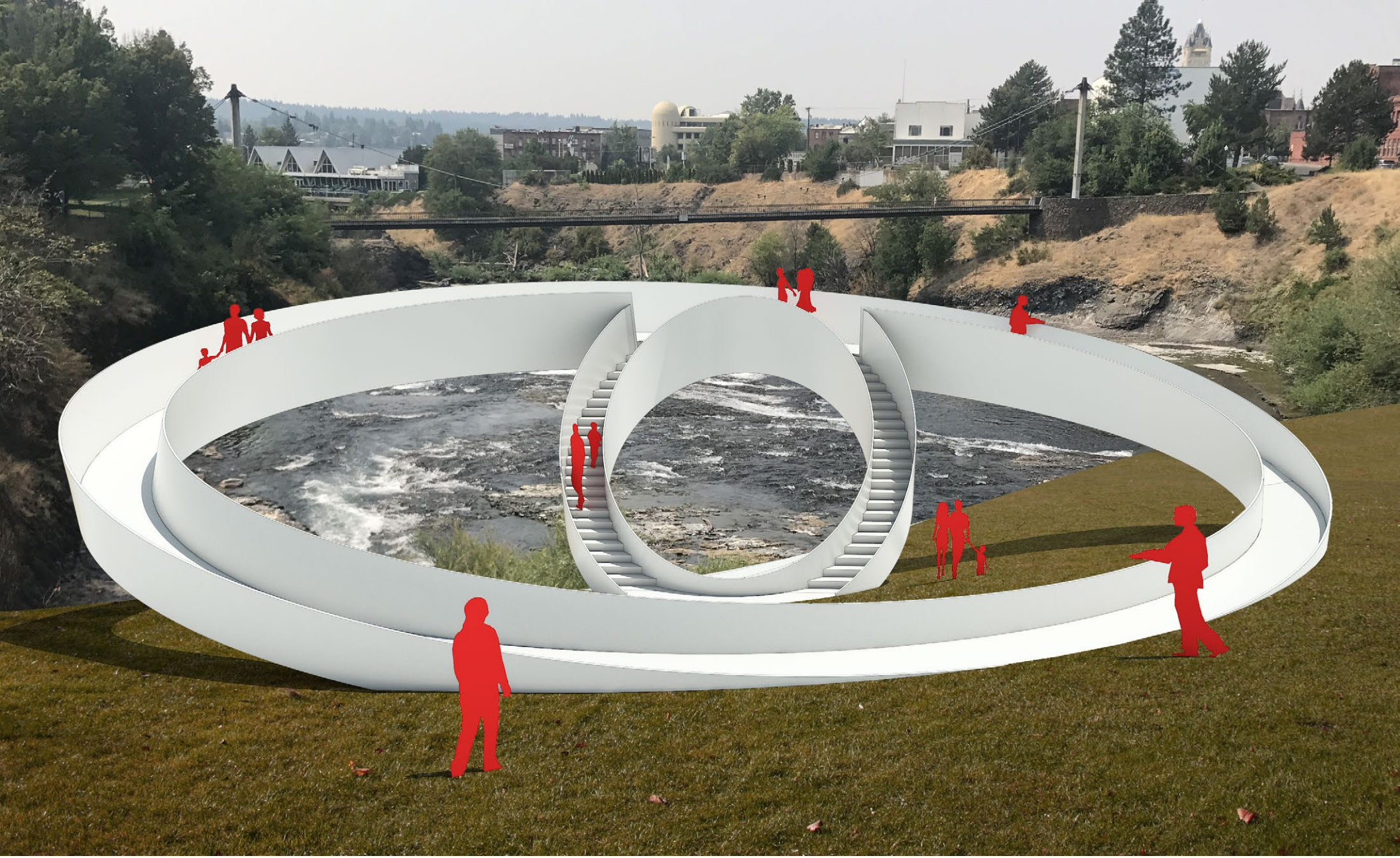
STAR-GAZER
$746,000-$1,550,000



WIND FUNNEL
$790,000 - $1,800,000



EARTH RING
$1,800,000-$5,200,000



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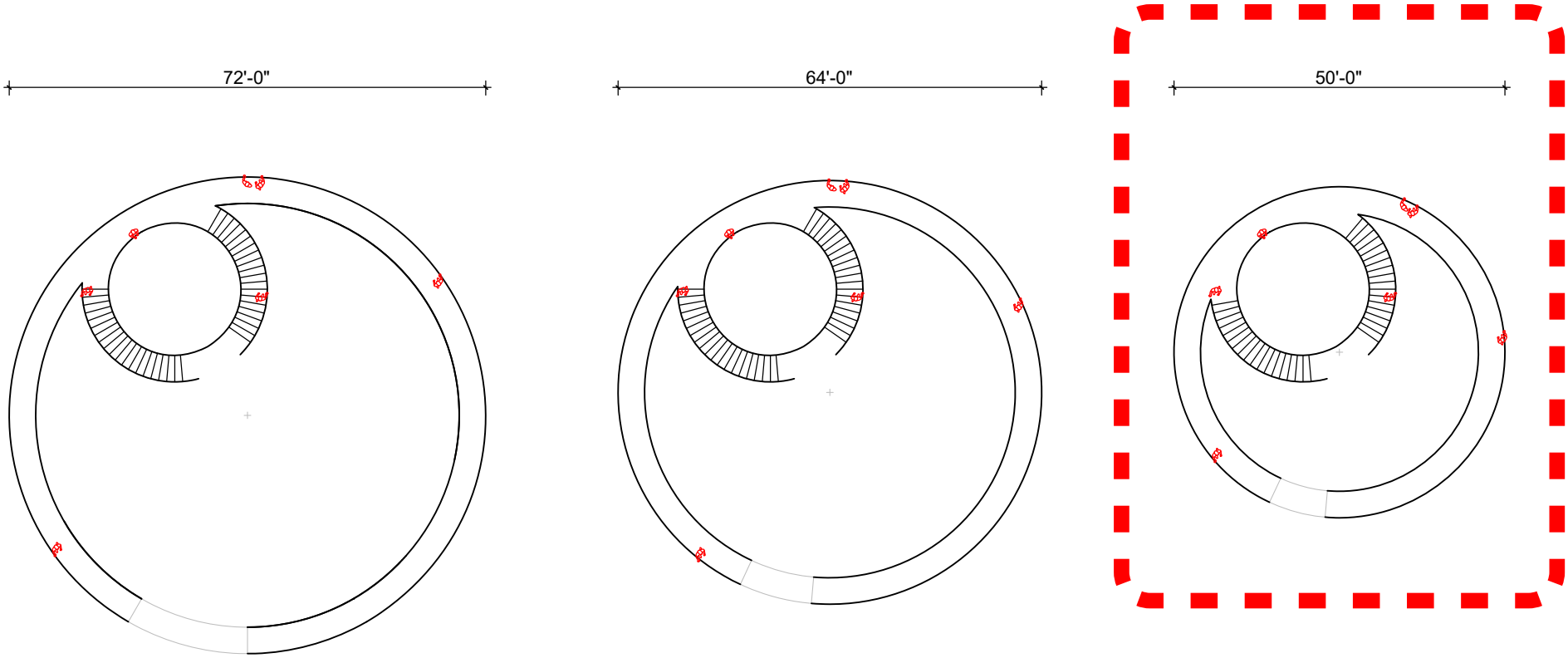
SPOKANE RIVERFRONT PARK
2 20 2018



ORIGINAL SCHEME → REDUCE OUTER RING

REDUCTION IN SIZE FOR ENGINEERING AND PRICING

HÖWELER+YOON ARCHITECTURE, LLP
150 LINCOLN ST. 3A BOSTON, MA 02111

PROJECT BUDGET

PLANNED PROJECT SUBTOTAL		$365,000.00
10% CONTINGENCY		$45,000.00
TAXES		$40,000.00
TOTAL		$450,000.00

TARGET BUDGET NUMBERS

	STEPWELL	
	28'x18'x10'	
	60-70 seats	
	relevant information	pricing
FOUNDATIONS	4 anchors into bedrock 20’	**~$13,600-$25,000**
SITEWORK		**~$15,000-$30,000**
WOOD MATERIAL	~33,321 lbs / 550 cubic feet	**$121,000**
STEEL PRIMARY STRUCTURE	6x6x3/8 steel tube frame	**~$20,000-$50,000**
INSTALLATION		**$30,000**
HARDWARE / FASTENERS		**$7,500**
SEALANT reapply every 2-4 years	1,461 square feet	**$2,900**
RAILINGS		
$300 / linear foot for glass	65 lf glass	**$19,500**
$100 / linear foot of SS handrail	30 lf metal	**$3,000**
ENGINEERING		**$50,000**
SUB TOTAL		**$282,500-$338,900**

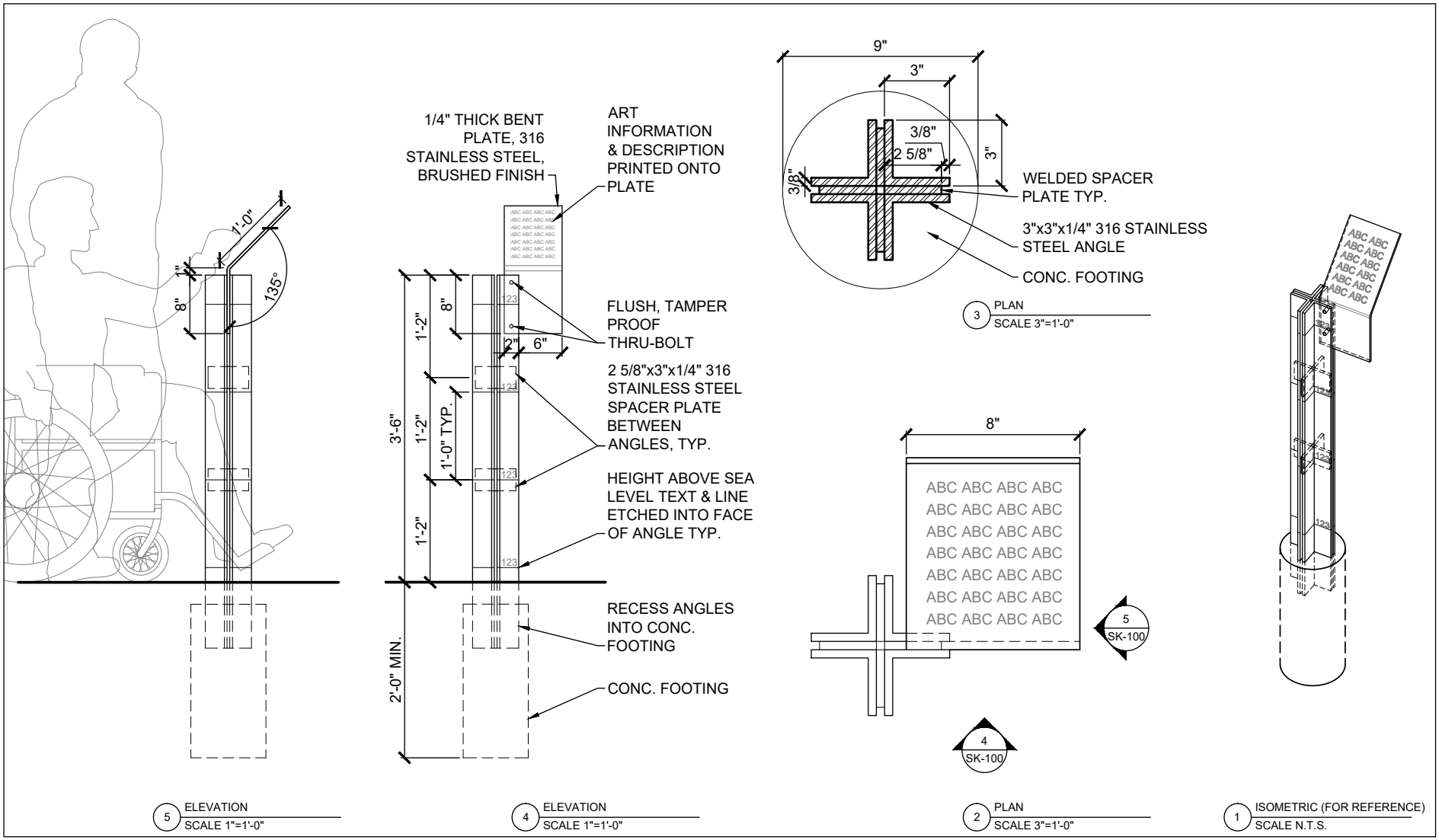
PLANNED PROJECT BUDGET		$365,000
10% CONTINGENCY		$45,000
TAXES		$40,000
TOTAL		$450,000

CURRENT BUDGET NUMBERS

ART SIGNS

Return to Page 2

PRICING / SIGN	
DESIGN	$800.00
FABRICATION	$1,620.00
CRATING	$145.00
FREIGHT	$220.00
SUB-TOTAL	**$2,785.00**
INSTALLATION	**+$XXX**



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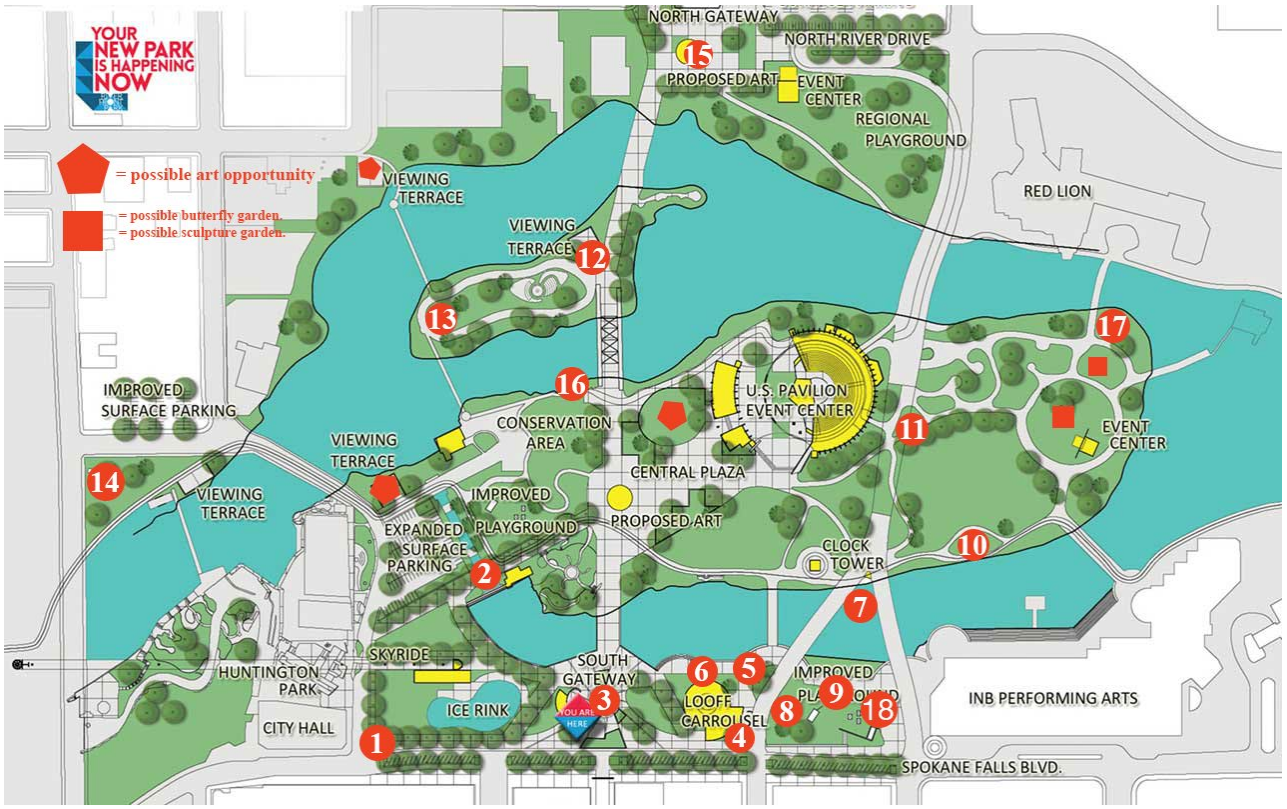
150 LINCOLN STREET 3A
BOSTON, MA 02111
p/f: 617.517.4101
e: info@hyarchitecture.com

TITLE TYP. ART SIGN
PROJECT SPOKANE RIVERFRONT PARK JOB NO. 1610
DATE SCALE VARIES DRAWN BY -

SK-100

$3,275 PER SIGN + $400 CRATING AND FREIGHT

(DOES NOT INCLUDE DELINIATION ON VERTICAL ANGLES OR INSTALLATION AT SITE)



16 PIECES WITHIN PARK, 11 AROUND CONVENTION CENTER, 10 WEST OF PARK, 4 EAST OF PARK

ART PLAN PROJECTS ADDING 8 LOCATIONS WITHIN PARK

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150 LINCOLN ST. 3A BOSTON, MA 02111

PROJECT SITING

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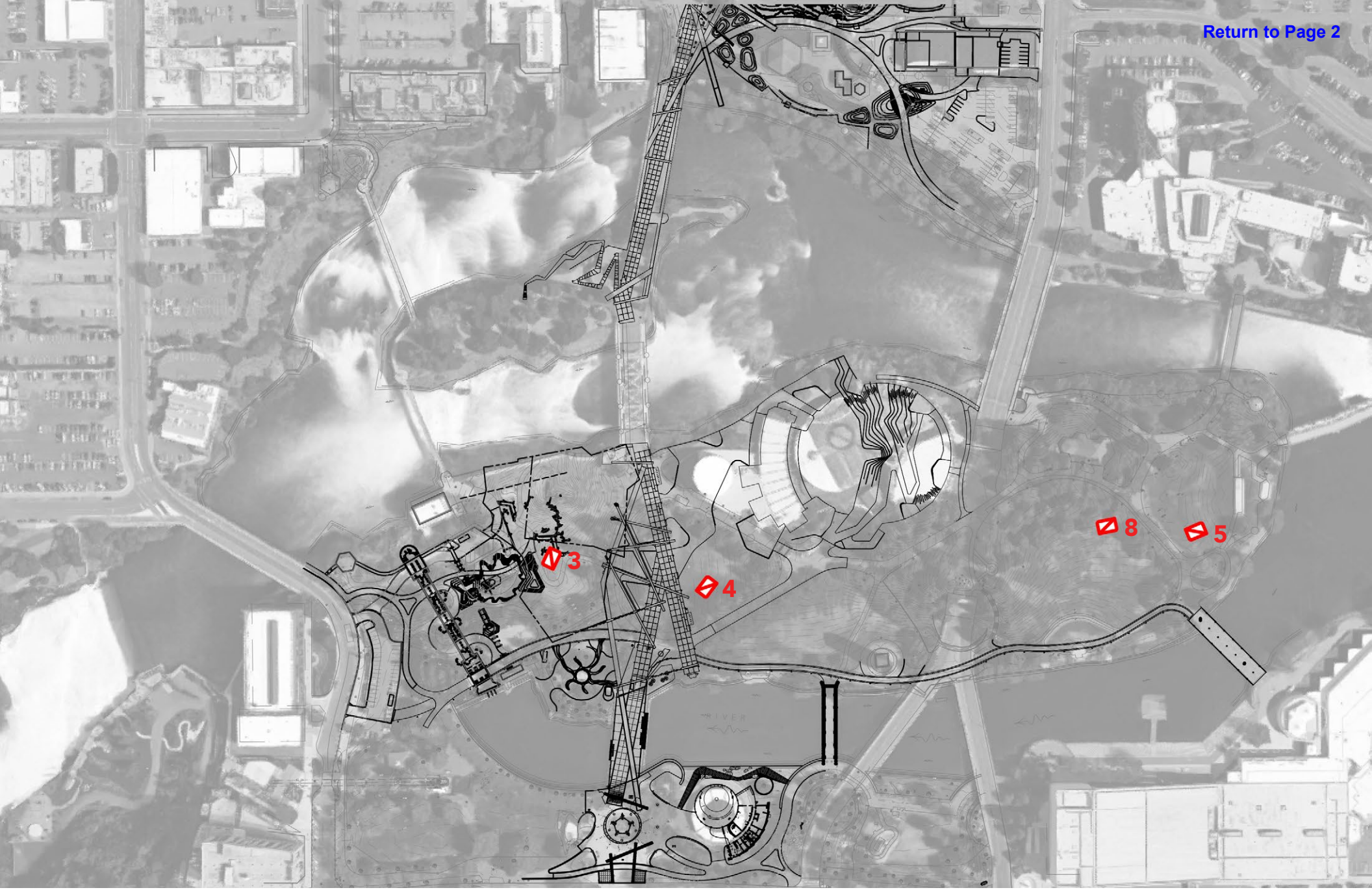

POTENTIAL STEPWELL SITES

3. CONSERVATION AREA - 4. PROMENADE - 8. UPPER LILAC BOWL - 5. EASTERN HAVERMALE

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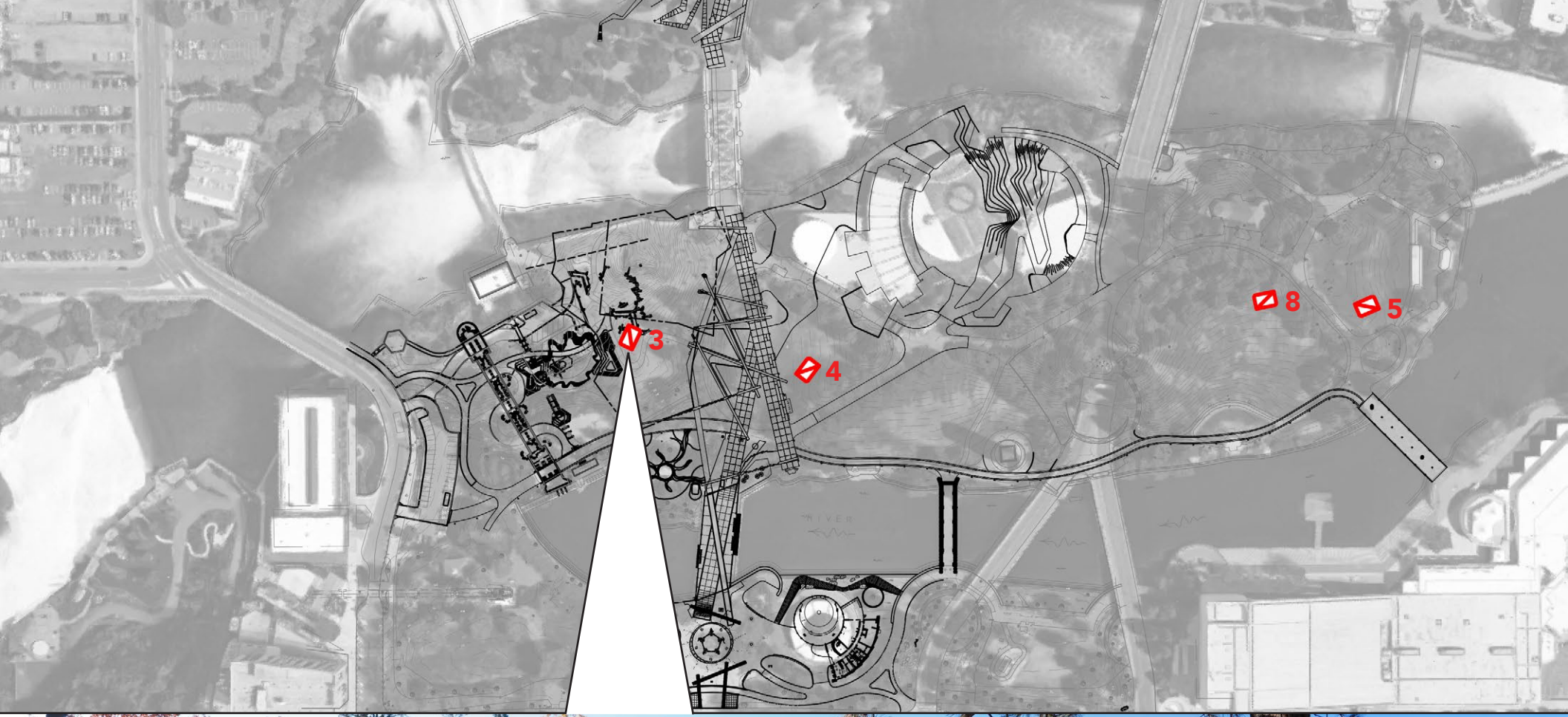
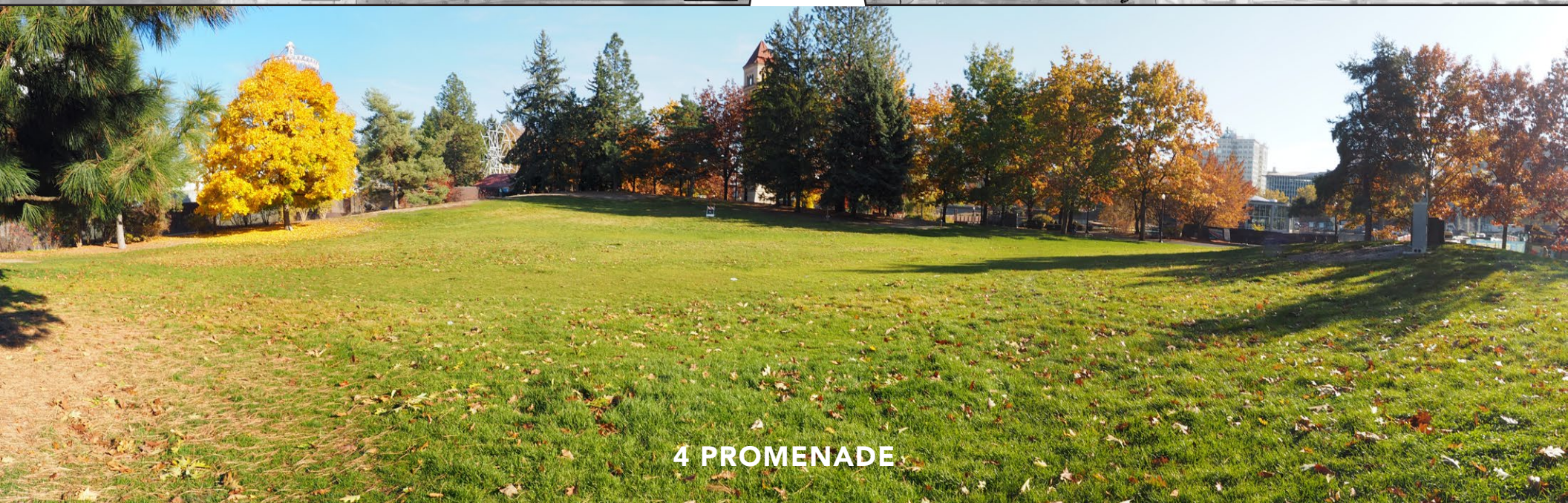
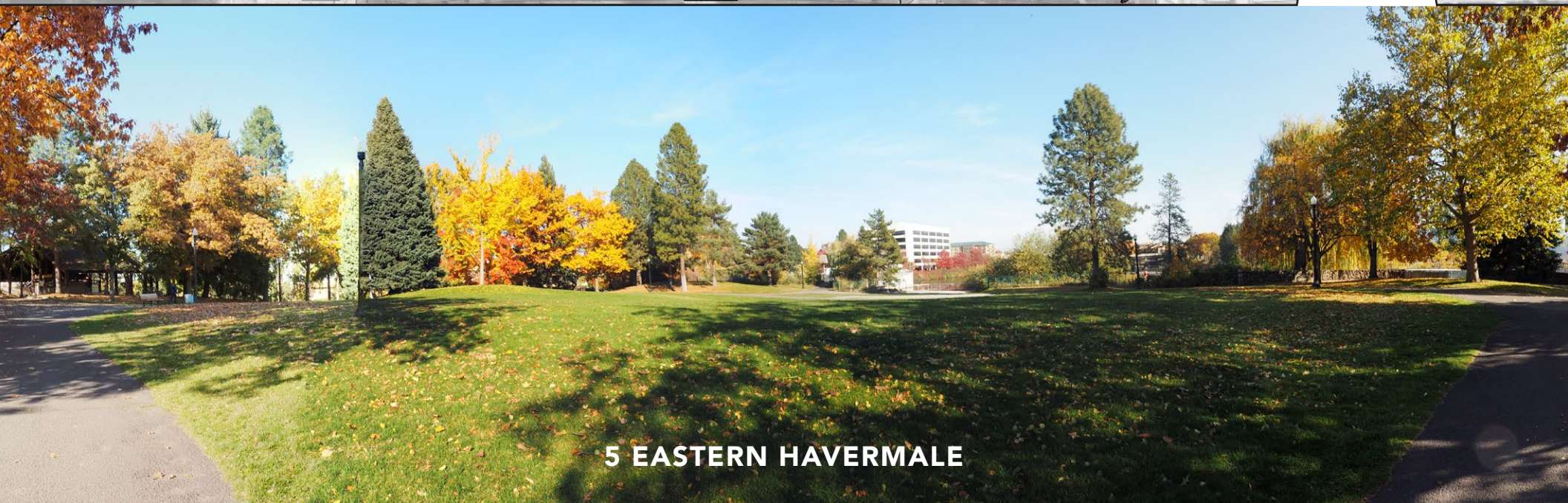


3 CONSERVATION AREA



4 PROMENADE

8 UPPER LILAC BOWL



5 EASTERN HAVERMALE

POTENTIAL EARTH RING SITES

1. CONSERVATION AREA - 2. CENTENNIAL TRAIL

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150 LINCOLN ST. 3A BOSTON, MA 02111

1 CONSERVATION AREA

2 CENTENNIAL TRAIL

3 CONSERVATION AREA

4 PROMENADE

8 UPPER LILAC BOWL

5 EASTERN HAVERMALE

1 CONSERVATION AREA

2 CENTENNIAL TRAIL

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