Signature Public Art for Point Park
Hamilton Canal District in Lowell, MA
Proposal by Nancy Selvage

Hydro

Hydro embodies and celebrates the energy of water flowing through turbines to generate power. Within the sculpture’s “waterfall”, a spiral staircase ascends to the top of a slide. Children can experience the thrill of flowing through a “turbine” as they slide down the 13-foot elevation difference that powered the mills at this historic site.

Like water, this translucent and reflective sculpture dramatically changes in different lighting conditions. It looks bright and solid in direct light and appears to be ephemeral and weightless when backlit. The primary material, perforated stainless steel, is 40% transparent. Layers of perforated metal create animated patterns that vibrate with the viewer’s shifting perspective.

Primary Sculptural Elements / Materials
- “turbine” frame / stainless steel or painted galvanized steel
- “waterfall” and “canal” flow / perforated stainless steel with 40% transparency and stainless steel rod along all perforated edges

Additional Interactive Elements / Materials
- “turbine” slide / stainless steel for solid side base and for perforated top
- “turbine” stairs / stainless steel or painted galvanized steel

Size
- 20’ tall / 45’ long / 35’ wide
criteria

• Historic site relevance
• Gateway
• Visibility from Highway
• Architectural integration
• Creative Play
• Sustainability & Maintenance
• Budget
perforated stainless steel as water,
spiraling cylindrical inserts as spinning turbines
Point Park

TURBO POWER

13-foot drop between canals and within sculpture
spiral staircase

spiralizing cylindrical sculptural inserts suggest the interaction of water with turbines
TURBO MAN
GATEWAY
creative play option
climbing wall
Visibility from highway could be enhanced by related form on signature building.
eye level on the canal path near the courthouse

looking down from courthouse
Sustainability/Maintenance

• The hydro power theme of this sculpture celebrates renewable energy.
• The sustainable values of 316L stainless steel are its durability, longevity, 100% recyclability, high % of recycled content, and minimal maintenance requirements (occasional power washing with water).
• All of the design work for this sculpture will be done in my studio which is 70% heated and powered by a combination of renewable resources: sun, wood, and wind (from NSTAR’s green electricity surcharge).
• I will pay fabricators to buy NSTAR’s green electricity during the fabrication of this project.
• I will consider sustainable energy options for powering the sculpture’s LED lights.
Hydro preliminary budget

Primary Sculptural Elements / Materials /Size

- **gateway frame**  stainless steel  20’ x 20’ x 20’
- **water fall and flow** perforated stainless steel, stainless steel rod on all edges  19’h x 35’l x 15’w

all stainless steel is 316L alloy (best for durability)

Additional Interactive Elements / Materials /Size

- **slide** stainless steel solid base and perforated top  13’h x 25’l x 3–3.5’ diameter
- **stairs** stainless steel or painted galvanized steel  13’h x 12’ diameter

<table>
<thead>
<tr>
<th>Primary Sculptural Elements</th>
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<tbody>
<tr>
<td>materials</td>
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<tr>
<td>fabrication</td>
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<table>
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<th>Additional Interactive Elements</th>
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<tr>
<td>Slide: materials /engineering/ fabrication / shipping</td>
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<tr>
<td>Spiral Stair: materials /engineering/ fabrication / shipping</td>
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### McNICHOLS® Quality Round Perforated, 11 Gauge Stainless Steel, 1/4" Round on 3/8" Staggered, 48.0000" x 120.0000"

#### Item Specifications

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#### Characteristics for this product are listed below:

- **Item Number**: 151438141
- **Product Line**: Perforated
- **Product Type**: Round Hole
- **Gauge**: 0.042"/11G
- **Major Material**: Stainless Steel
- **Minor Material**: Type 316L
- **Gauge (Thickness)**: 0.042"
- **Hole Size**: 0.2500"
- **Hole Centers**: 0.7175"
- **Surface Finish**: Mili
- **Percent Open Area**: 44%
- **Length (Span for Grating)**: 120.0000"
- **SKU Type**: Sheet
- **Packaging**: Unfinished
- **Width**: 48.0000"
- **Length**: 120.0000"
- **Quantity**: 1

**In Stock**

**ADD TO CART**

Click here to add this item to a cart.
examples of perforated metal projects
Signature Public Art for Point Park
Hamilton Canal District in Lowell, MA

Proposal by Nancy Selvage

*Hydro*

Hydro embodies and celebrates the energy of water flowing through turbines to generate power.

**Proposal**  May 9, 2012

work with the community to develop this concept
adjust the design so that it fits the budget and criteria priorities
create a high quality sculpture based on this concept

I am committed to:
collaborative working relationships with architects, contractors, site designers, clients, and community users
creating 1/4 scale models and 3D computer models
hiring the best possible fabricator
creating a sculpture that animates, delights, and educates