Duluth Multimodal Transit Hub
Duluth Multimodal Transit Hub
• Research
• Duluth’s Transit story
• Process
• Design
Gridlock
Ground Interaction
How do the advances of technology in the transportation infrastructure predestine how one designs and shapes the built environment at the junctions where they meet?
Research

Findings

- Diverse options
- Extension of the street
- Integrate systems
- Encompass all aspects of
  - Social, economical, environmental
- Orientation
- Proper pedestrian links
- Park/Ride systems
- Catchment of people
- Central space
- Layer systems
- Scale
Urban Forms: Airport
Urban Forms: Train
<table>
<thead>
<tr>
<th>Support Spaces</th>
<th>6,750</th>
<th>Transit Spaces</th>
<th>13,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gift Shop</td>
<td>2,500</td>
<td>Changing Rooms</td>
<td>500</td>
</tr>
<tr>
<td>Information</td>
<td>250</td>
<td>Multi Storage</td>
<td>3,500</td>
</tr>
<tr>
<td>Main Office</td>
<td>1,000</td>
<td>Train Platform</td>
<td>5,000</td>
</tr>
<tr>
<td>Restrooms</td>
<td>3,000</td>
<td>Skywalk</td>
<td>4,000</td>
</tr>
<tr>
<td>Mech1</td>
<td>1,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mech2</td>
<td>3,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>10,300</td>
<td>Main ATRIUM</td>
<td>36,000</td>
</tr>
<tr>
<td>Freezer</td>
<td>700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooler</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry Storage</td>
<td>1,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td>2,500</td>
<td>Parking Ramp</td>
<td>108,000</td>
</tr>
<tr>
<td>Deli</td>
<td>1,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restaurant/Bar</td>
<td>4,000</td>
<td>Paring Spaces</td>
<td>360</td>
</tr>
<tr>
<td>Office</td>
<td>400</td>
<td>Park</td>
<td>4.5 Acres</td>
</tr>
</tbody>
</table>

TOTAL 70,550
Duluth
Duluth Exports

- Fur
- Lumber
- Copper
- Grain
- Flour
- Coal
- Iron Ore
- Shipbuilding
Duluth
Duluth

One of Duluth's Beautiful Homes, Duluth, Minn.
Duluth

THF AERIAL BRIDGE, SPAN 393 FEET 9 INCHES, 135 FEET HIGH FROM WATER LINE. COST $100,000
Duluth
Duluth
Duluth
Process
Process
Process
Process
Process
Process
Process
Process
Process
Process
USE one Singular system
one sweep
Process
Final Design
Final Design
Final Design
Final Design
Final Design
Final Design
Final Design
Car Entry
Final Design
Comments and Questions

Duluth Multimodal Transit Hub