



# The *MegaWay*<sup>TM</sup> Cost Story

## Why cost is so much lower than other elevated systems

### ROAM<sup>TM</sup> Transport Systems, Fort Worth, Texas

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OTHER U.S. & INTERNATIONAL PATENTS PENDING

ROAM graphics & photos

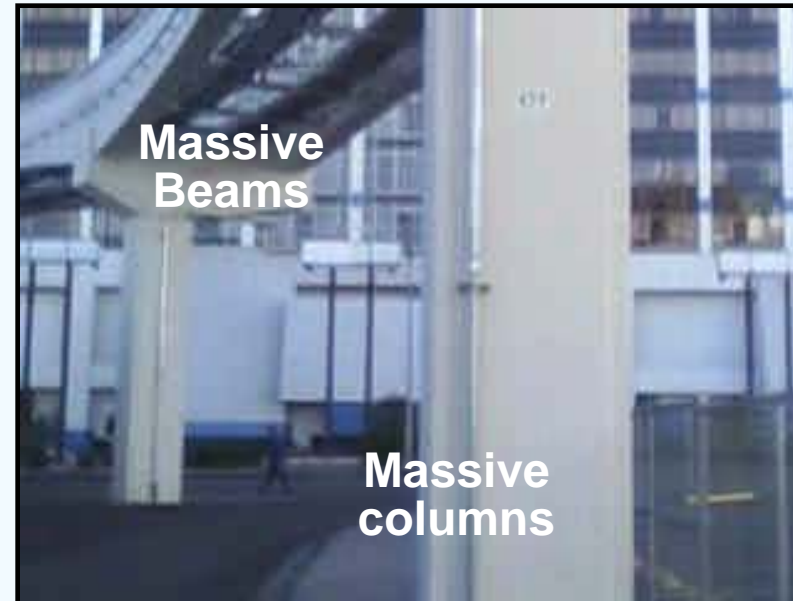
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# Roots of Other Systems Cost Problems

## Massive columns & guideway structures



**Elevated LRT – \$190M/mi +**



**Monorail – \$160M/mi +**

**Similar Size D/FW Airport Elevated Skylink APM – \$184M/mi**

**All are Very Expensive to Build**

# Why Massive Guideway Structure is Needed



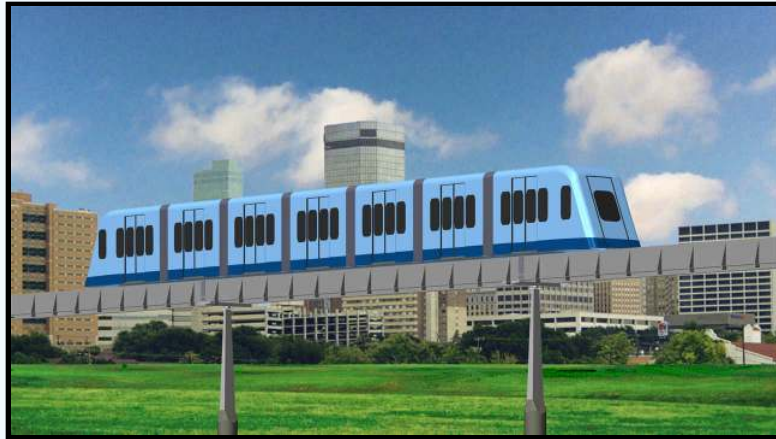
**Elevated Dallas DART Light Rail Train**

**Cars – Typical Empty Weight – 100,000-lbs**  
**Passengers - Max Load Weight – 28,000-lbs**  
**Total Load per Car – 128,000-lbs**

**Heavy Loads Require Massive & Expensive Guideway**



# Why *SuperWays* are Light Weight



Ultralight *MicroWay* & *MegaWay SkyCoach* urban transport trains

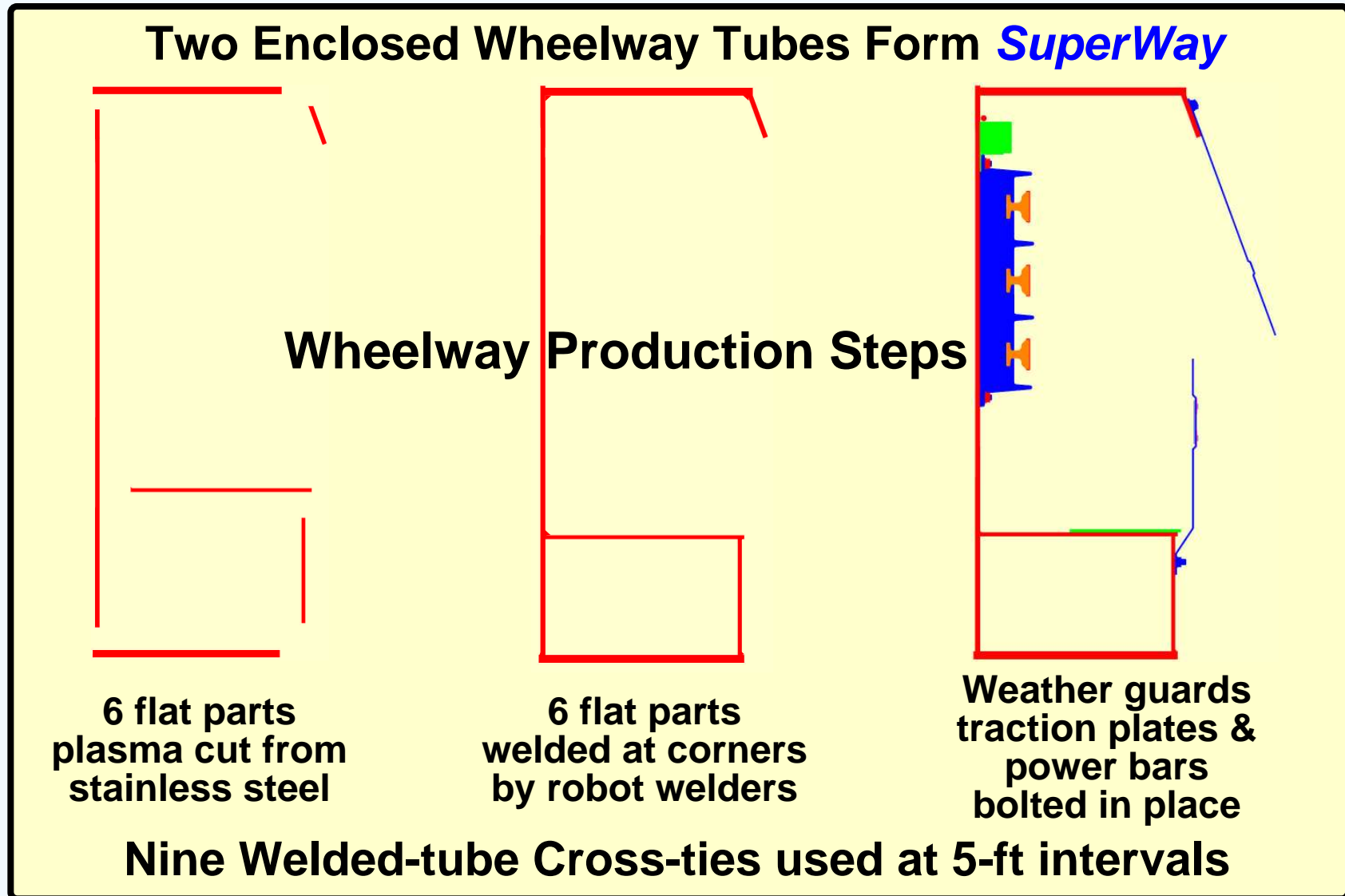
- *MicroWay* car weight – 4,200-lbs
- *MegaWay* car weight – 6,000-lbs
- *MicroWay* car Length – 10-feet
- *MegaWay* car length – 20-feet

*MicroWay* & *MegaWay* use 50-foot long guideway sections

- *MicroWay* max guideway load  
5 cars x 4,200-lbs = 21,100-lbs
- *MegaWay* max guideway load  
2.5 cars x 6,000-lbs = 20,000-lbs

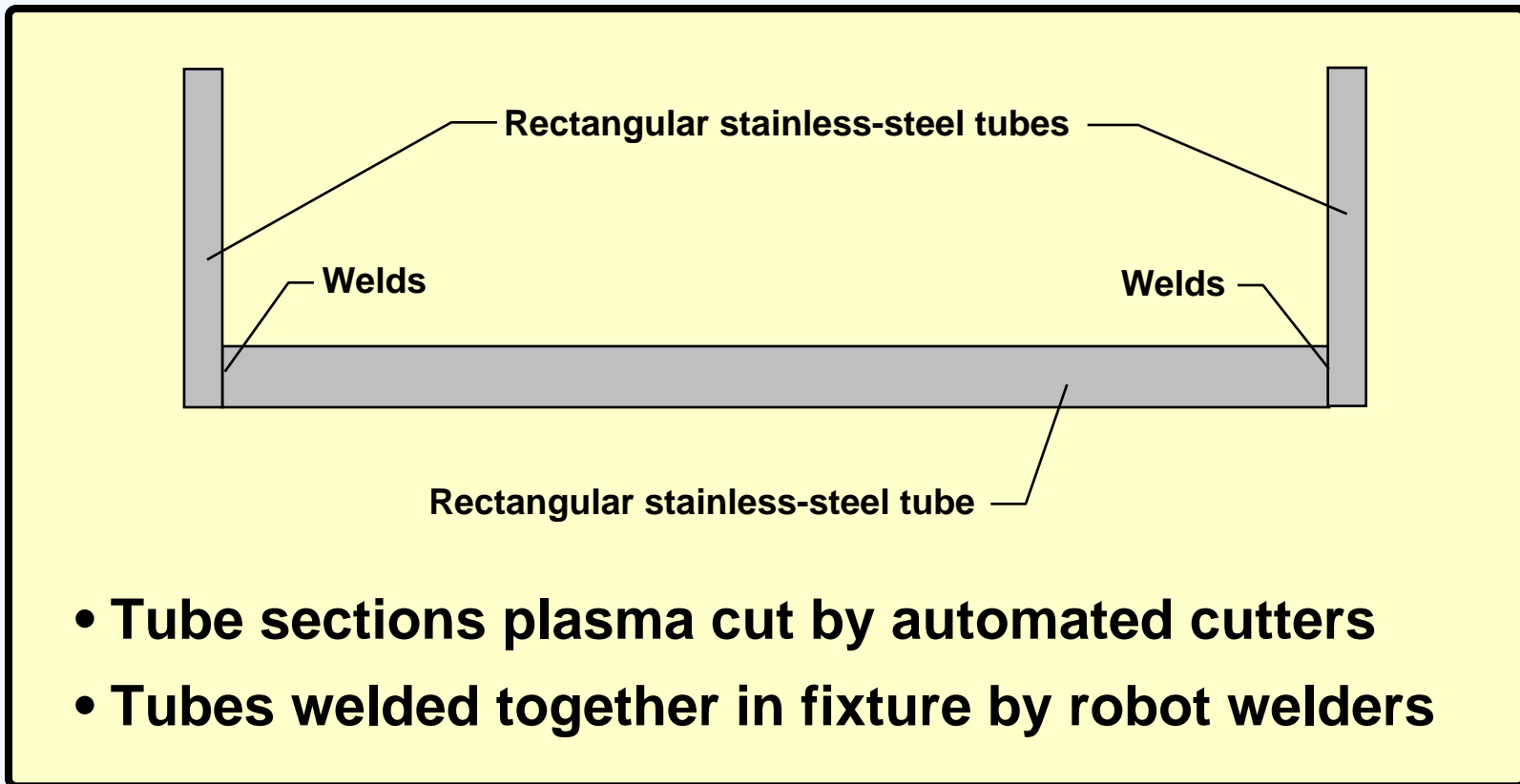
***MegaWay* & *MicroWay* Guideway Loads  $\approx$  15% of other Elevated Systems**

# Low-cost *SuperWay* Production Design



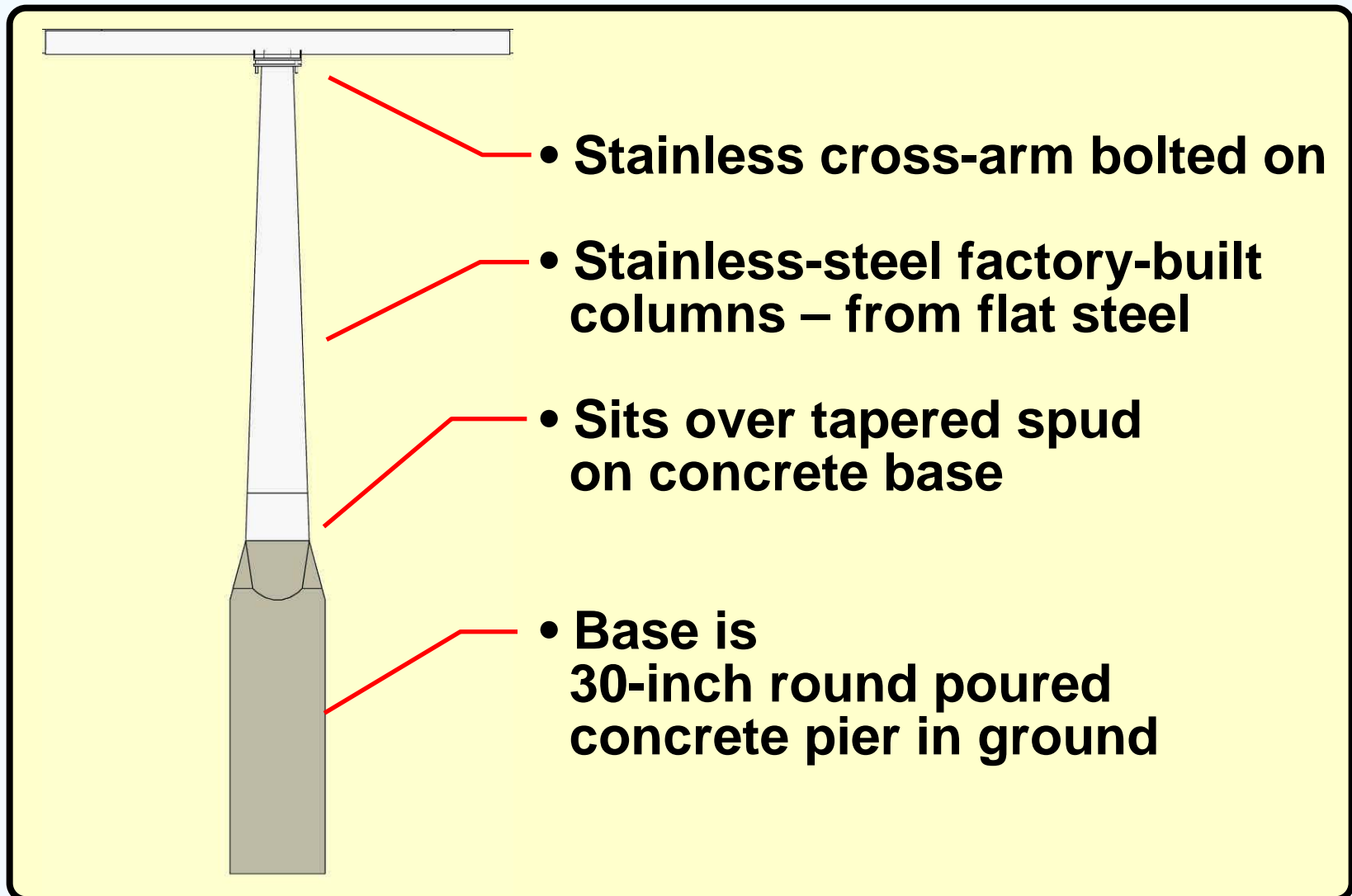
# Cross-tie Assemblies Production

## Made from welded, stainless-steel tubing



**Cross-Tie assemblies welded in place at factory**

# Ultralight, **Low-cost** Factory-built Columns



## **ROAM** has Solid *SuperWay* Cost Data

- **201 Stainless-steel material cost is known**
- **Firm, fixed price bids from 3 manufacturers for guideway elements production**
- **Installation costs based on current structural steel erection costs**
- **Concrete pier cost from current pier costs**



# **Vehicles Designed for Low Cost**

## **Ultralight Design & Ease of Maintenance**

- **Systems in lower chassis unit for access ease**
- **All metal parts cut by robot plasma & laser cutters**
- **Most raw material is tubular and flat stainless-steel**
- **Entire structure of welded stainless sheet & tube**
- **Formed aircraft-type composite material interiors**
- **Bus-type fold-out electrically operated doors**
- **Simple, fold-up cabin passenger seats**
- **Empty car weights – 2,000 to 2,700 pounds**

**Cars are ultralight weight & low cost**

# ROAM Cost & Availability Summary

- ROAM does design, integration & support
- Subcontractor team able to provide capacity
- Installation subcontractor (Austin Bridge) capable of all field engineering & installation
- Major subsystems from established sources
- **Guideway is 90% of cost – Firm bids secured**  
**We know that system costs are correct!**

**ROAM has the lowest cost approach**



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