

PROJECT SYNERGY

Bring Downtown Long Beach together

System named “The Wave”

Come to Long Beach and Ride the Wave

An Aerial Tram Connection

From the Convention Center

To

Aquarium, Queen Mary, Maya and Cruise Terminal

Added Phases:

Ocean and Pine and New City Hall Complex and More

Why an Aerial Transport System

- Aerial Tram systems utilize long spans between towers to accommodate crossing water and difficult terrain features
- Serves as both an Attraction and a Transportation System
- Environmentally Sound
 - Powered by Electricity
 - Low Impact Construction
- Visibility – Great meeting place, best view of downtown Long Beach, many promotional opportunities and will attract riders because of novelty

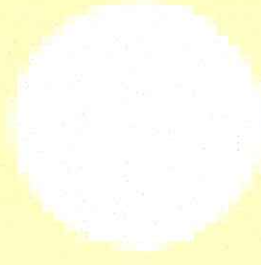
Aerial Tram

- The gondola is designed to transport tourists and locals from the Aquarium Site to the Queen Mary area with a stop at the hotel complex adjacent to the Queen Mary
- The system is designed to promote the tourist industry in downtown Long Beach
- This installation will support the 45 acre development by providing transportation to and from downtown Long Beach and will increase business for nearby businesses
- The Aquarium terminal serves as a connection to existing and future public transportation in downtown Long Beach
- The Aerial Tram will serve as a very visible icon for the City of Long Beach attracting many thousands of visitors to ride and experience this new venue

SURF RIDER

System information

- Up to 4800 People/Hr = 120 buses fully loaded per hour
- No Possibility of Bottle-necks caused by ground systems
- Fully Accessible - Bikes and Wheelchairs - ADA compliant
- Energy Efficient design
- No Pollution
- Safe and Reliable
- Grows with Demand
- Minimal disruption to City during construction or operation

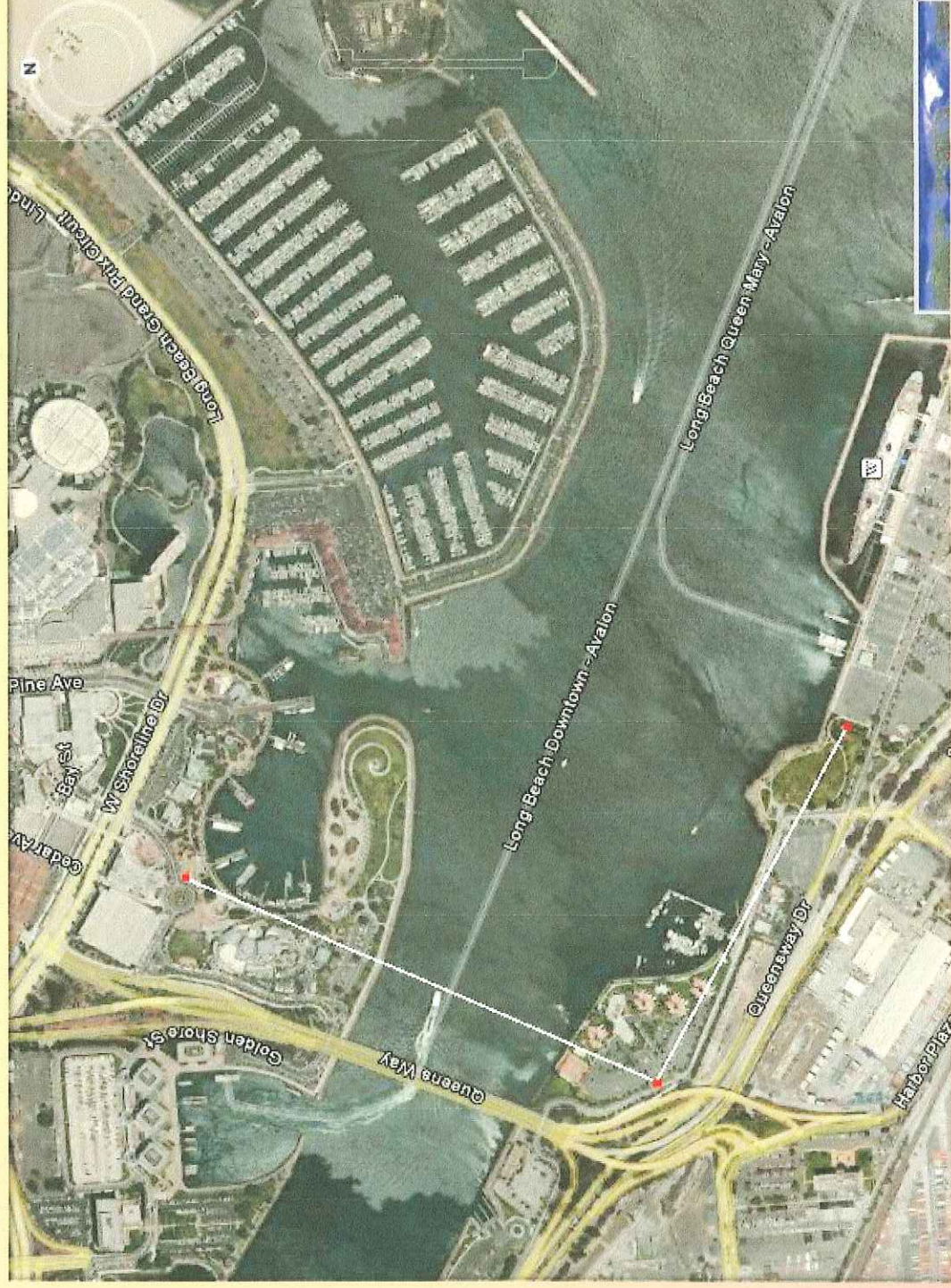


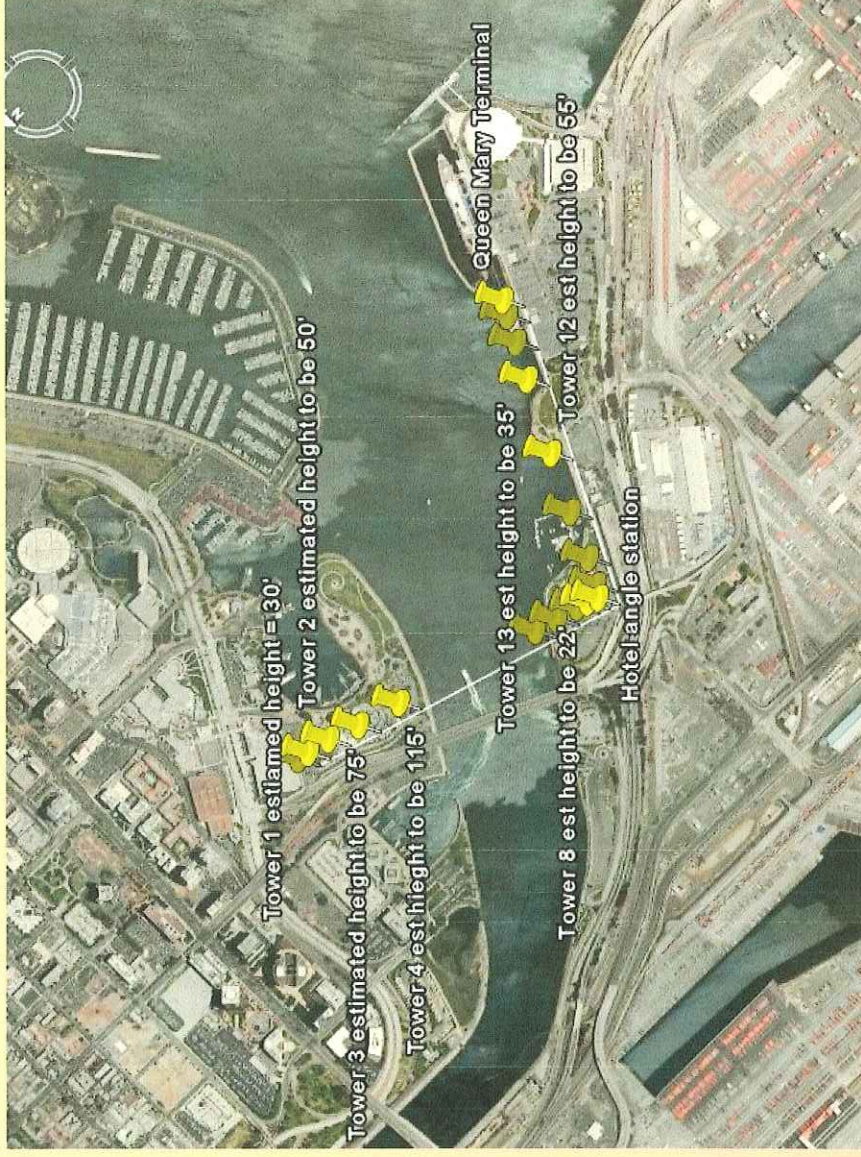
Doppelmayr

World Leader In Aerial Ropeway Systems

- Number One Producer of Ropeway Systems in the North America and the World
- Operations in 39 Countries, Including the United States and Canada
- Over 9,500 installations installed in our 100 year history

Proposed Aerial Link to QM Area

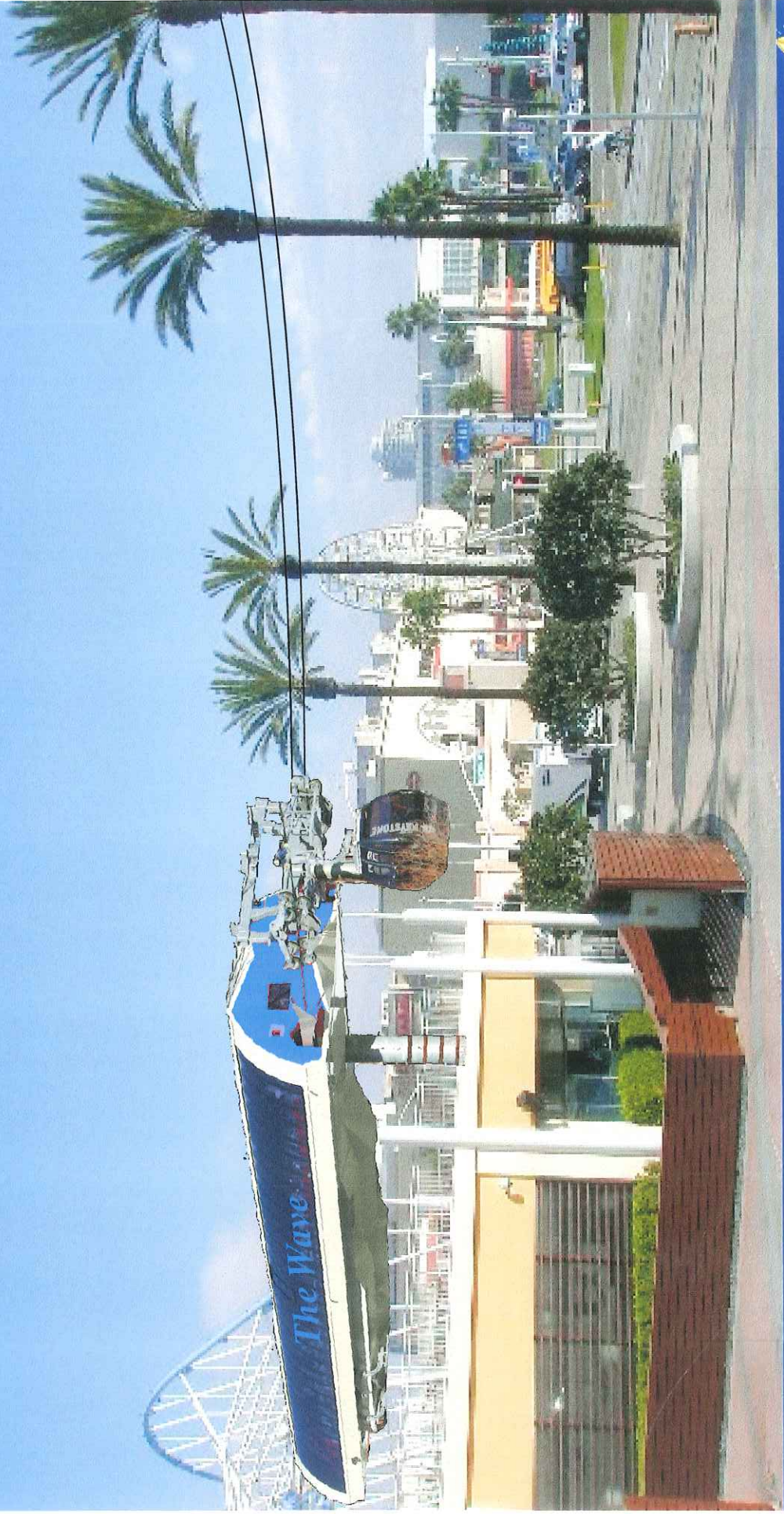


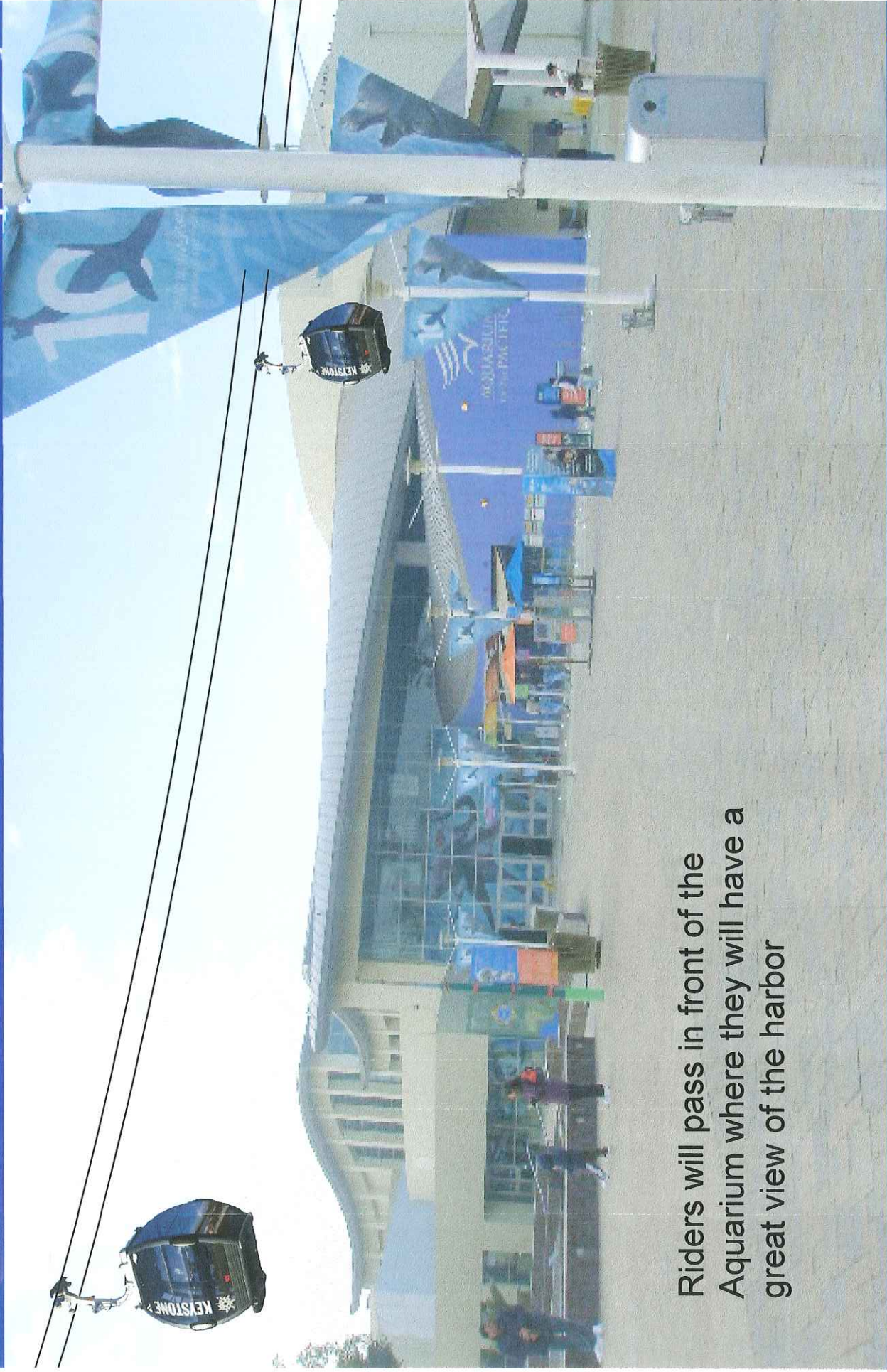


Gondola height markings

NOTE: There are no stanchions within the channel.

Easy access from Aquarium and Pike Parking structures





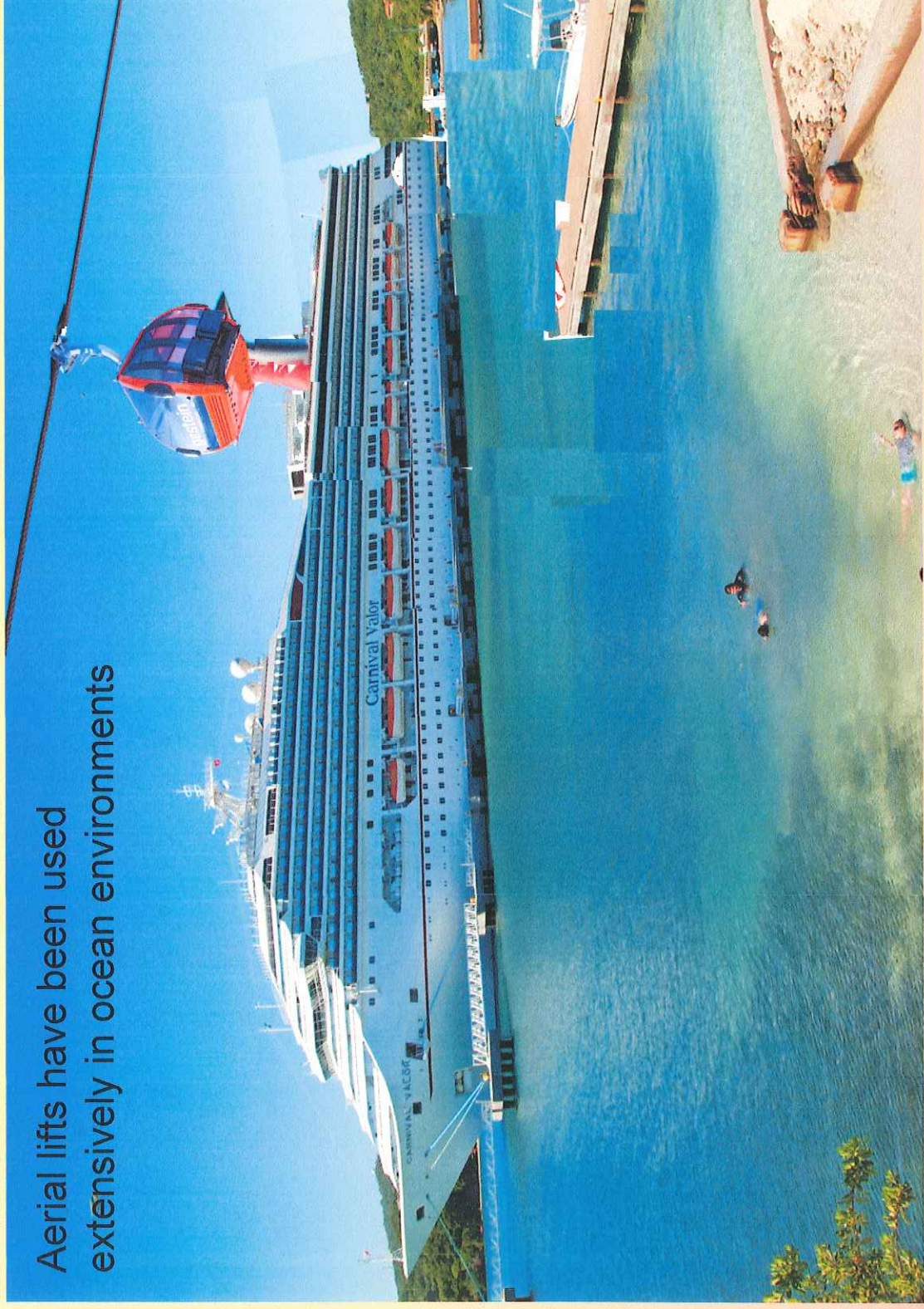
Riders will pass in front of the Aquarium where they will have a great view of the harbor



Line from Aquarium to Queens Way Bridge

Ocean View

Aerial lifts have been used extensively in ocean environments



Advantages for Long Beach

- The system will employ several trades and multiple local people in the construction of the system
- Traffic congestion will be greatly reduced and the demand for parking at the Queen Mary will go down as well.
- Multiple attractions can be visited from one parking spot – which should add revenue to all the venues while reducing the stress on existing parking
- The system will add 12 – 20 fulltime jobs
- The system is very energy efficient with a very small carbon footprint
- Avoids added congestion on The Queens Way Bridge – now in disrepair

ADA Compliant

- ADA compliance is a must for all new transportation systems
- With an 8 passenger LWI Cabin from CWA wheelchairs can proceed directly into the gondola
- Bicycles can be taken on board with the rider in the same cabin
- Level Walk-in cabin design assures everyone, including children, the elderly, disabled, strollers, etc can be easily loaded

Energy Efficient

- Powered by electric motor - no pollution
- 500 HP is the maximum power to ever be used and only then with a full load in each direction
- Energy consumption varies with load. When empty the energy consumption is estimated at only 75 HP.
- AC drive package proposed is the most efficient electric drive package available for use in tramway systems
- Advanced design in terminal accelerators and decelerators assure minimal wasted energy in accelerating the cabins up to travel speed from the slow loading speed

Crossing Waterways

- We have many installations crossing bodies of water. We only have a few precautions that must be adhered to
 - We need to have a rescue plan to evacuate the system should that ever become necessary
 - We must have appropriate backup systems
 - The staff must be trained as well as local police and fire departments



Unique Features

- Cabins can be designed to meet local desires and concerns
- Solar panels can add lights, fans or other small energy conveniences
- Logos on the cabins and color choice will distinguish your cabins and make them stand out
- Floor to ceiling windows give maximum visibility
- Tropical roof helps to cool the cabin and the occupants



Safety

Safe and Reliable

- Aerial tramways boast one of the best safety records in modern transportation. Based on the number of boardings aerial tramways are safer than commercial airlines
- Redundant mechanical and electrical systems ensure highest reliability and passenger safety
- Fail-safe control systems - passenger and system safety

Minimal Disruption to City and Surrounding Attractions

- Construction is confined to small specific locations and will not disrupt normal city life or the businesses at local and nearby establishments
- Because the system is suspended in the air, there is little disruption to activities occurring at street level during construction and no disruption after the system is in operation

Installation Components

- Terminals can be customized at an optional price
- Multiple color cabins can be used and cabins can be sponsored, lowering initial capital cost or ongoing operational cost
- All major components are aluminum or galvanized to minimize corrosion and to reduce ongoing maintenance
- Very tall towers are sometimes lattice structures depending on height and structural requirements



- **“The Wave”** will be an Icon for the City of Long Beach attracting many thousands of new visitors to Long Beach – just to ride the system – and while here, visit the venues.

**Will increase income to all venues and business’s
And to the General fund.**

**Save much money otherwise used for new parking
structures**

-- AND --
PROJECT FEASIBILITY
DOES NOT DEPEND ON
NEW DEVELOPMENT AT
THE QUEEN MARY SITE

About Alex Bellehumeur

Since 1964, Mr. Bellehumeur founded and operated successful companies and has remained actively involved in both civic and business activities that are of particular interest to him.

PERSONAL:

- ☐ Married to Linda
- ☐ Graduate of CSULB (1956) Bachelor of Arts degree
- ☐ Certificate from Management Action Program – top of class - 1973
- ☐ Born Nov. 4, 1934 – Arrived in California from Conn. 1948
- ☐ Two sons and two daughters
- ☐ 10 grand-children and three great grandchildren

BUSINESS ACTIVITIES:

- ☐ 1964 to 1993 (Retired): Owner and President of *State-Wide Developers, Inc.*, a California Corporation. Developed and constructed nearly one billion dollars of projects (then rated in top 3% nationally) - received three "Gold Nugget Awards" for the best commercial and residential projects in the western U.S... Innovated nationally recognized housing concepts
- ☐ Founder of "*Medical Control Services Inc.*", in 1976. Sold interest in 1992 – went public
- ☐ Founder of *San Pasqual Stables* in 1977. San Pasqual is located on the arroyo in Pasadena and is recognized as one of the leading equestrian centers in California. Ownership retained.
- ☐ Co-Founder of *Roller Hockey International* in 1991 (the World's first professional non-ice hockey league). The league teams competed throughout North America, Japan and parts of Europe. RHI was recognized in the sports world as the most successful "start-up" league of its time. Sold complete ownership interest in league in 1996 - first professional sport to play at the then newly opened Anaheim Pond, and averaged over 10,000 spectators per game – Nationally televised on ESPN
- ☐ Holder of thirteen patents. Three of these products are being distributed internationally. The products are marketed through "*Rough Rider, Inc.*", a firm that was founded and is owned by Mr. Bellehumeur. Three additional product inventions are now in the patent pending stage.
- ☐ Presently working with the City of LB to construct an automated people mover (APM) transportation system from downtowns 3rd and Promenade to the Queen Mary

NON-BUSINESS ACTIVITIES:

- ☐ Governor Appointee to the World Trade Commission – resigned as Chairman in 2001
- ☐ Present Board of Trustees/Director, Chaired Philanthropic Committee, on Executive and Grant Committee's, LB Memorial Medical Center.
- ☐ Past President of nationally acclaimed International City Theater – restructured and formed new board
- ☐ Long Beach Playhouse – 2009, restructured and formed new board of directors
- ☐ Past Chairman, Long Beach Airport Commission
- ☐ Past President, Cypress Chamber of Commerce
- ☐ Past President, Long Beach Harbor Commission, Port of Long Beach (then number one Port in N.A). Now President Emeritus.
- ☐ While President of the POLB, I prevented the sale of the Queen Mary, resulting in City taking it back over.
- ☐ Past President, Long Beach Area Republican Assembly
- ☐ Received the "Outstanding Citizen of Long Beach" award from the L.A. County Board of Supervisors
- ☐ Selected by Long Beach Magazine (March 2007) as one of the 13 most innovative minds in Long Beach.
- ☐ Past member of the Dean's (business dept.) Advisory Board, CSULB
- ☐ Formed and led the "Citizens for a full time Mayor elected at large" in 1988. Mayor Kell first to be elected
- ☐ Keynote speaker at 29th Annual "Meet the Industry Expo", on behalf of CSULB
- ☐ Founding member of SAE chapter at CSULB

HOBBIES: Traveling and playing golf with Linda

PRIMARY INTEREST: Solving business, civic and product related challenges.

020912



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April 7, 2016

Mr. Alex Bellehumeur
6242 Napoli Court
Long Beach, CA 90803

Re: System Capacity for 8 Passenger Aerial Transport Gondola

Alex,

The capacity of 4800 PPH is the capacity when the people traveling on the system in both directions added together. Or, we are providing a one way capacity of 2400 people per hour. When we quote capacity to a ski area we normally tell them our gondolas have a capacity of 2400 people per hour because they are taking people from the bottom of a mountain to the top and then they ski down. As a result the capacity on the downhill side is of no real use to them. However, in a city or urban environment you have to consider the capacity in each direction because people are as likely to travel in one direction as the other. So the capacity in each direction is added together.

Example - Consider a gondola a cabin leaves each terminal each 12 seconds:
With a 12 second headway you have 5 cabins leaving each terminal every minute or 8 people per cabin x 5 gondolas per minute = 40 people per minute leave each terminal.
(or put another way, every 12 seconds one cabin leaves the Queen Mary and is headed back to the Aquarium, at the same time 8 people can be loading at the Aquarium and be traveling to the Queen Mary)

If 40 people leave each terminal and head toward the opposite terminal in one minute, then in 60 minutes you get 40 people/min x 60 min = 2400 people have traveled from the Aquarium to the Queen Mary and during the same hour 2400 people can travel back to the Aquarium from the Queen Mary. This gives you a system capacity of 4800 people per hour.

Let me know if you need further information.

Best regards,

DOPPELMAYR USA, INC.

Randy Woolwine
VP Sales Doppelmayr USA, Inc