

Pre-Design of Passenger Boarding Systems

PRESENTED BY: Larry Levis, AIA
Principal, BEA International, Inc.



Cruise Conference 2007 – Cayman Islands

American Association of Port Authorities

Pre-Design Process – Adding Value

- ✓ When do you need a Gangway (or two)?
- ✓ Does a Gangway affect the design of the facility?
- ✓ How much should you spend?
- ✓ What's the best procurement method?

Gangways are integral to overall cruise port design, not merely equipment for subsequent Owner purchase

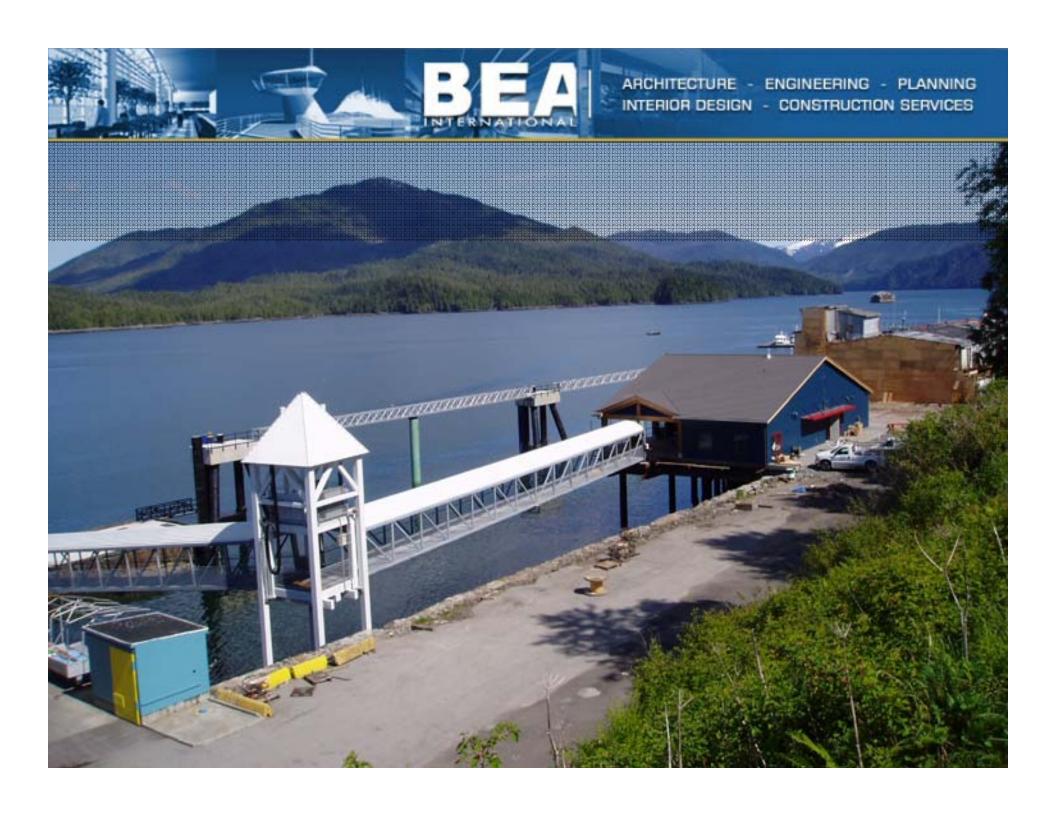


When to invest in gangways...

- ✓ Generally, turnaround ports with more than 50 ship days
- ✓ some Ports-of-Call with notoriously bad weather and a small terminal / first port of entry in country.
- ✓ Some Ports-of call with large tides

 Alaska/BC, Maine/Atlantic Canada, N. Europe
- ✓ Homeports, in general. 2 gangways when 3,000 pax+
- ✓ When the cruise lines ask for one (or 2)











Does it Affect Design of Terminal

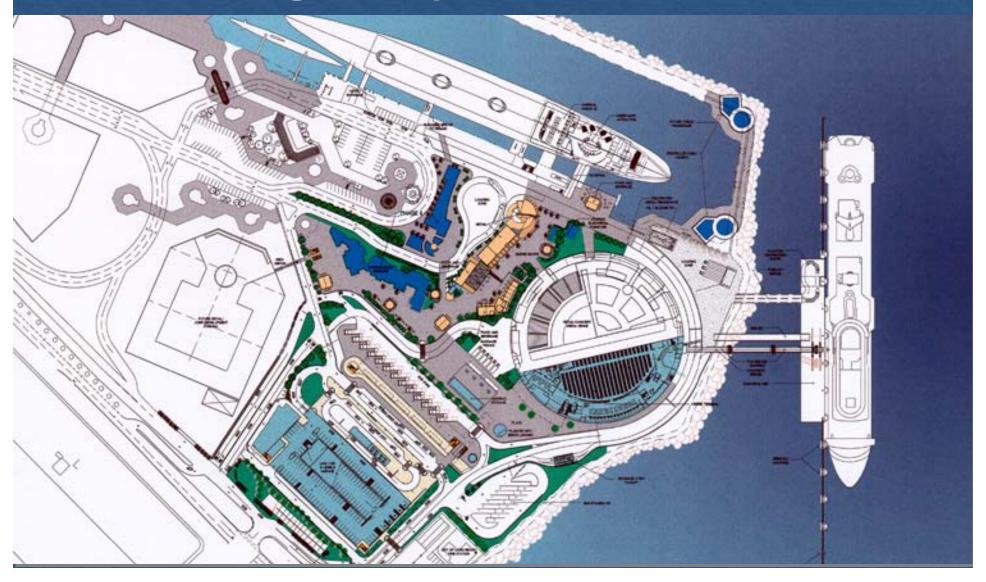
- ✓ One, two, or three level terminal?
 - ✓ A good gangway can save Terminal area and \$
- ✓ Types of vessels anticipated (possible to limit?)
- ✓ To Fantasy, or not to Fantasy?
- ✓ Purpose-built for Single Vessel? (Hint: NO)
- ✓ Relationship to Boarding Platform
- ✓ Multiple or Single access points?
 Fixed, Semi-fixed, or Fully Mobile
- ✓ If mobile: Tracks or Wheels?
- ✓ Prominent site seen from City?

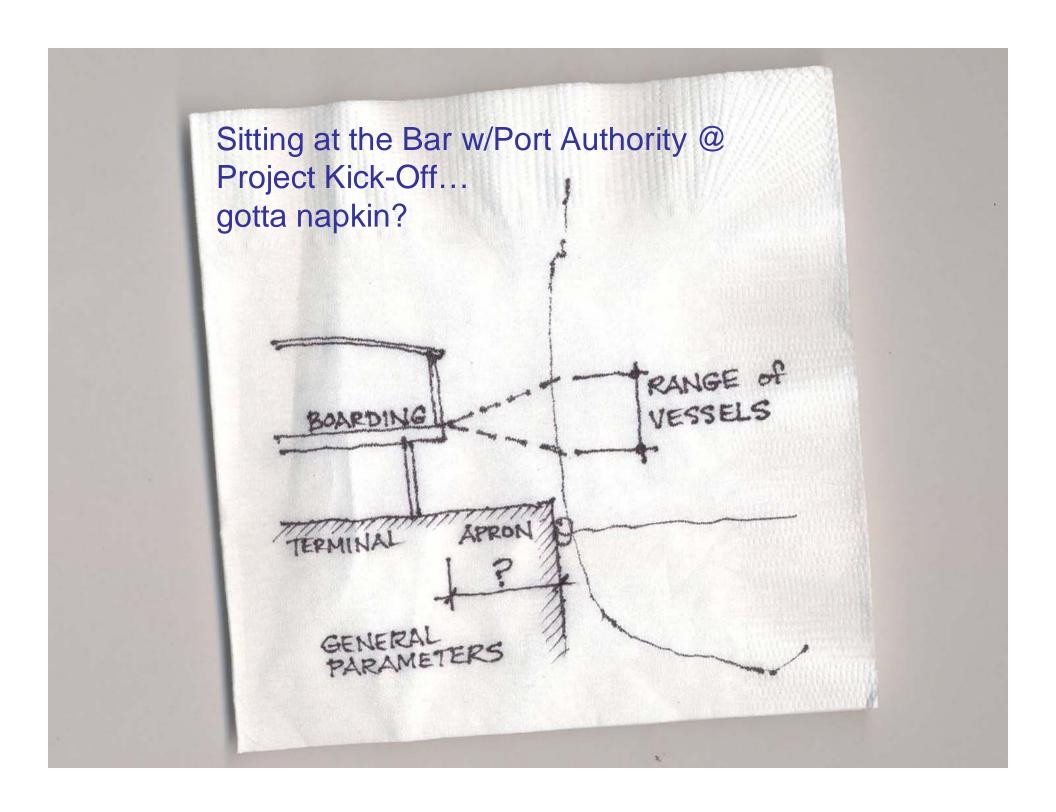


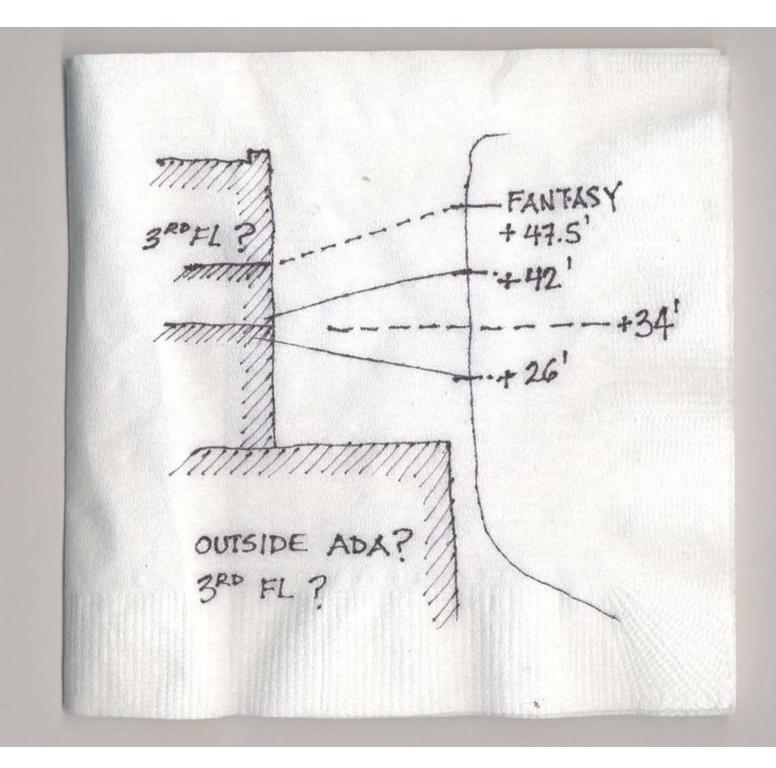


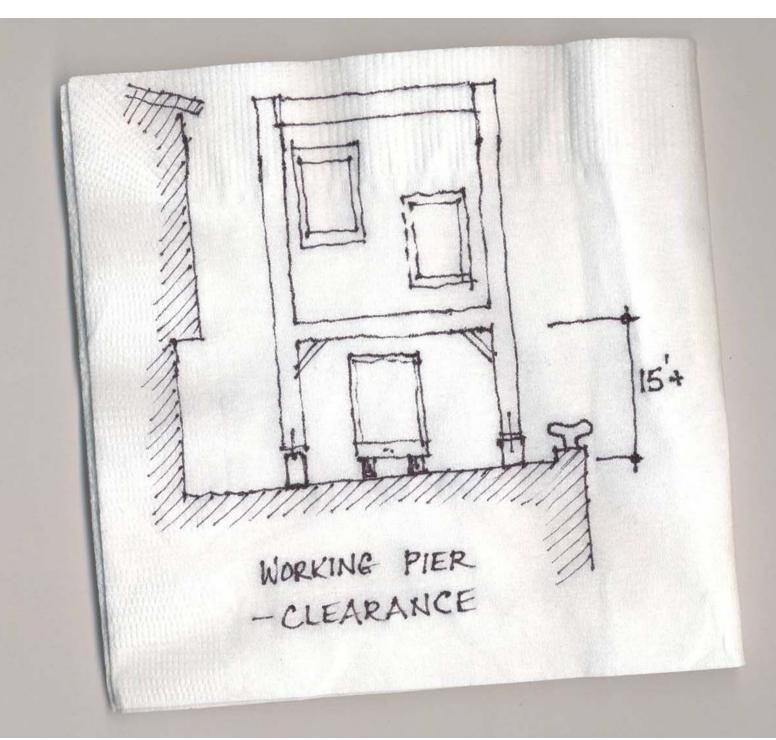


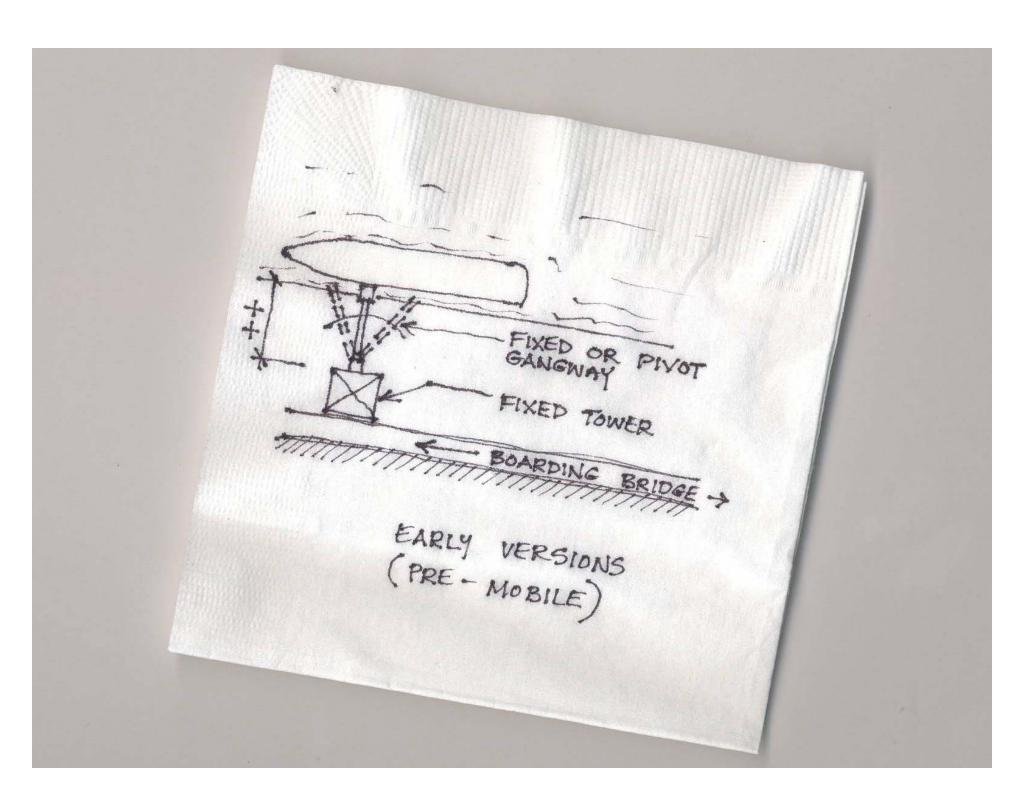
300-ft ADA Hinged ramp

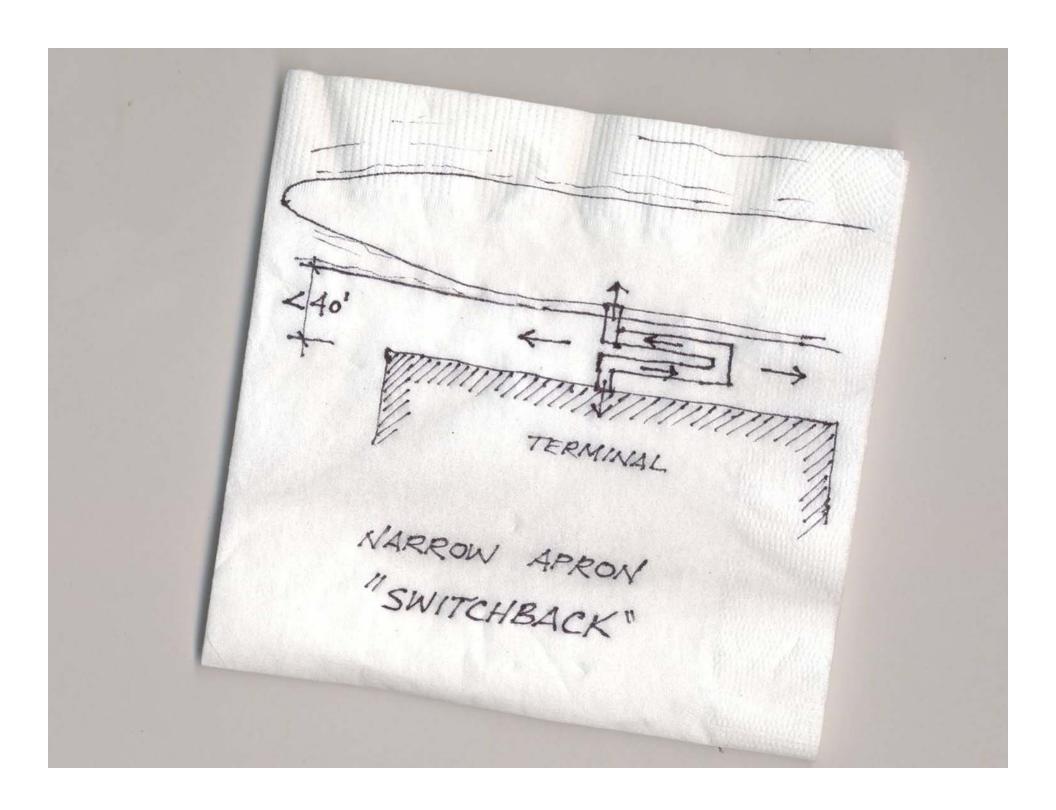


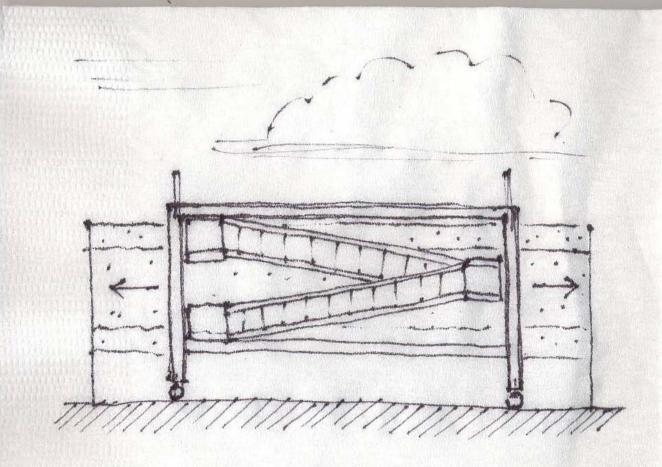




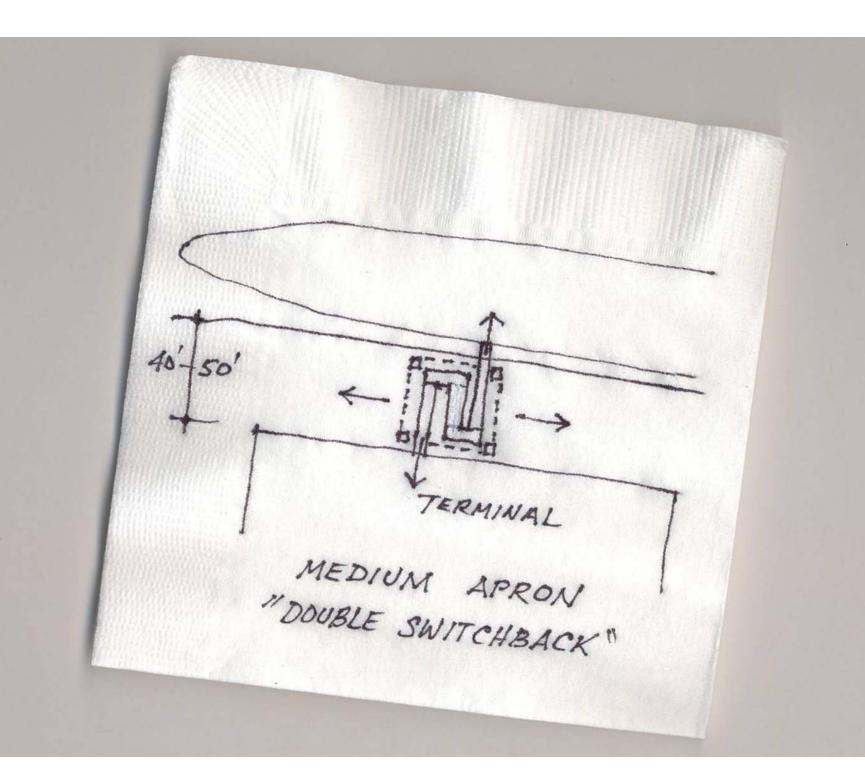








SINGLE SWITCH · wide · industrial





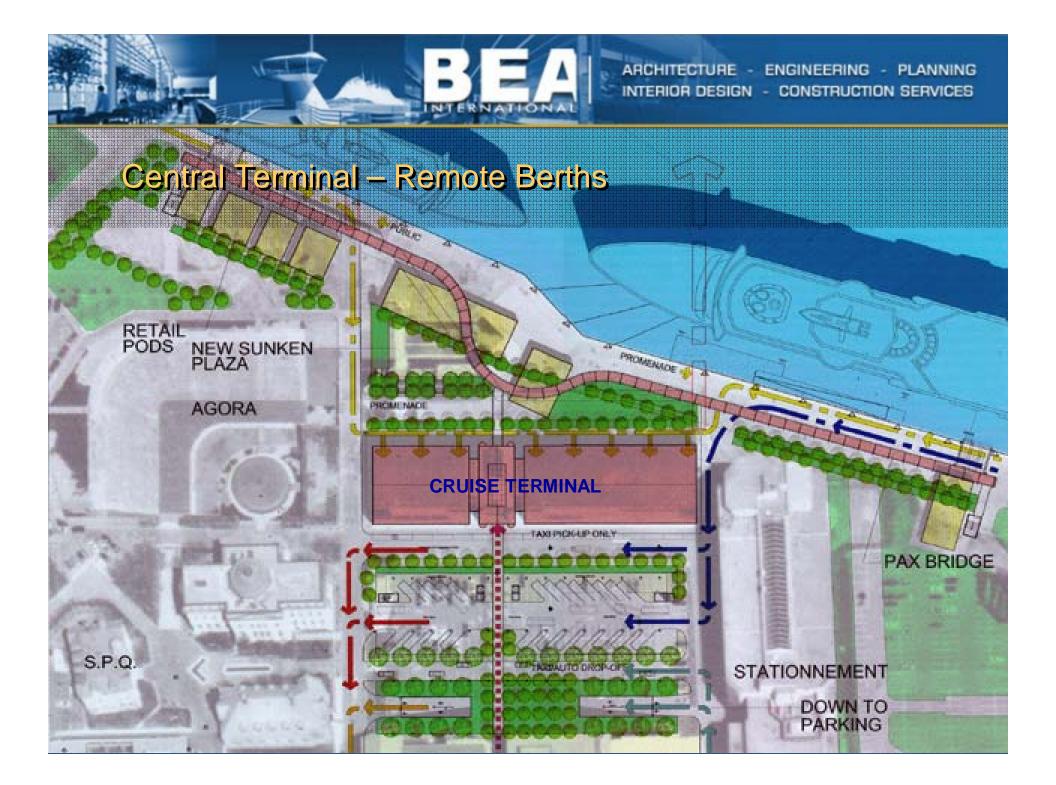
GANGWAY

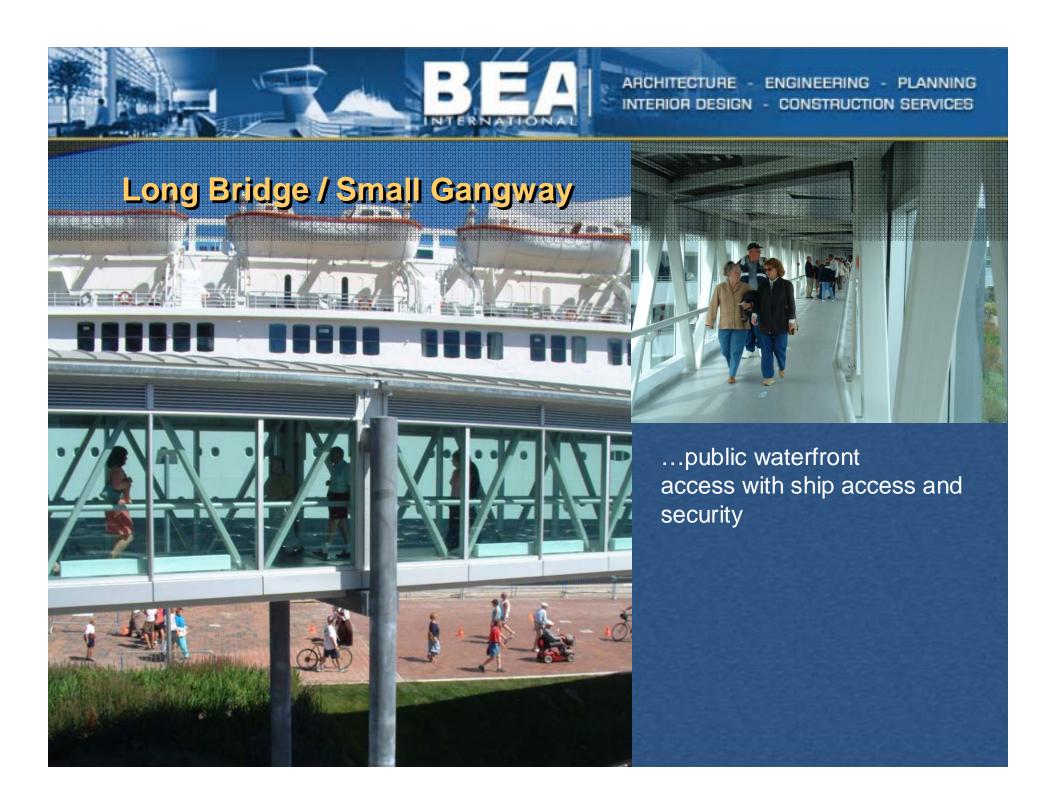
PROMENADE

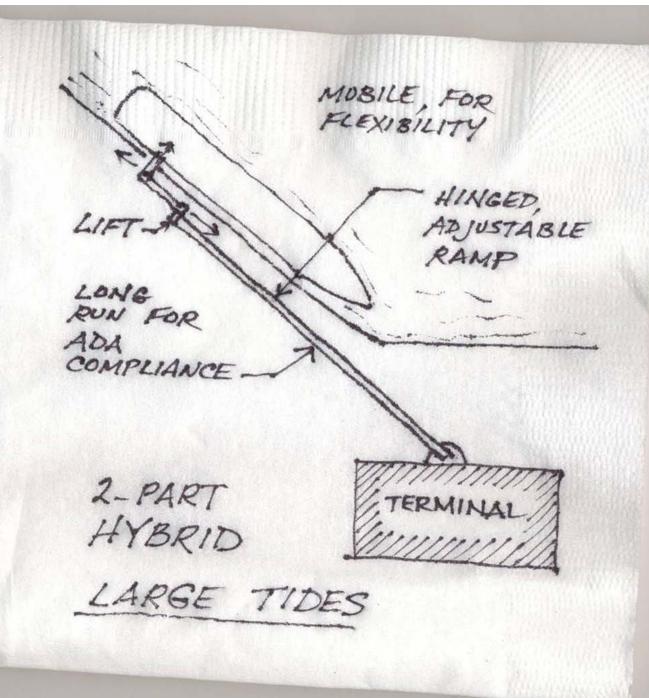
PAX BRIDGE.

TERMINAL

REMOTE CONDITION







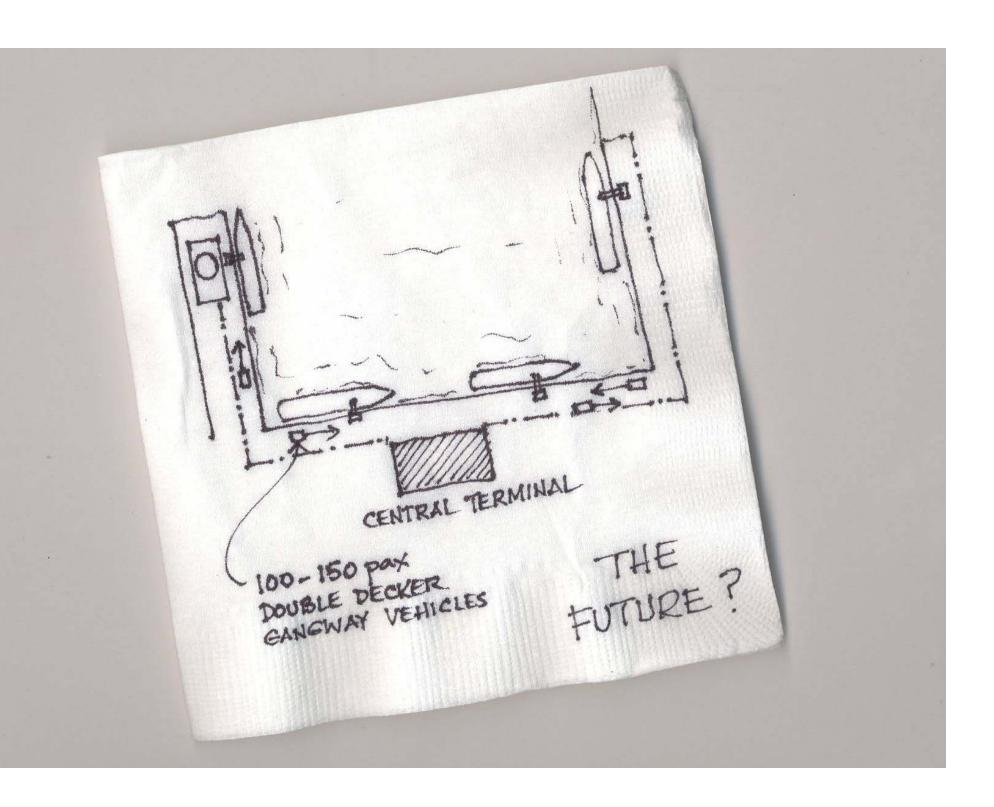


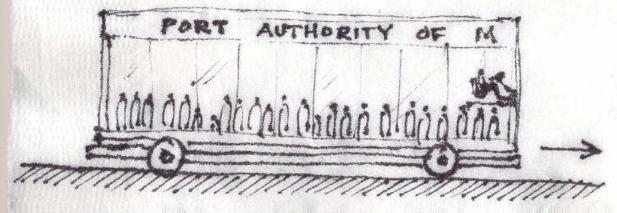


Gangway at "T"

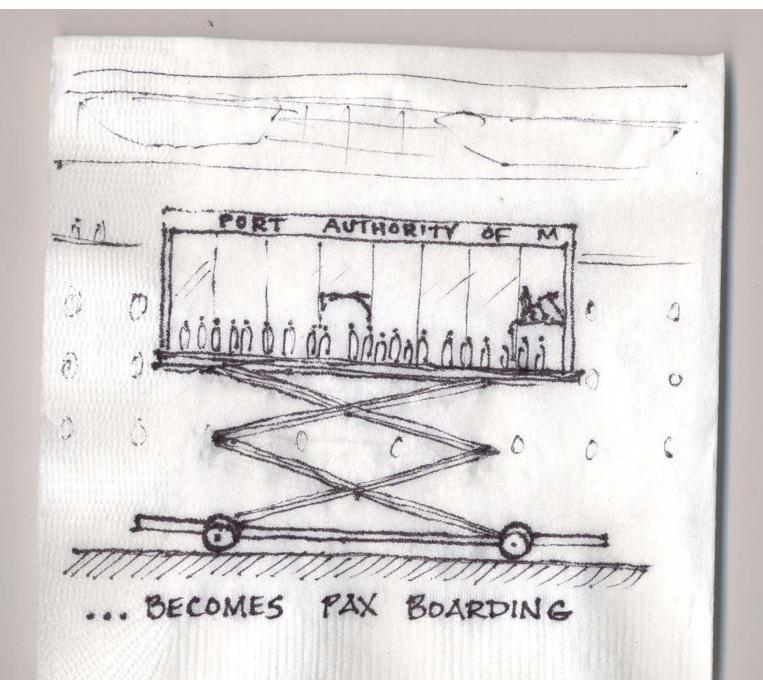


Fully adjustable and ADA-compliant bridge / part of gangway





VERY HIGH CAPACITY BUS ...



\$65,000

BASE MODEL:

OPTIONS

FIXED, OPEN

· A/c, Glazing

· Automatic Adjust · Mobile

· Remote Control

. Remote Diagnostic

LOADED

\$ 203,000 MSRP



Procurement Method

- Separate Tender from Terminal GC
- May be bundled w/ Pax Bridge (same finishes)
- Same Project Budget / Funding (FF&E)
- Issue Tender Docs 14-16 mos. in advance
- Minimum 3 invited Bidders (2 mo bid period)
- Tender Docs must set Parameters not limit creativity of Tenderer!



Summary of A/E's Role to Add Value

- Gangway is part of Cruise Port Pre-Design
- Discuss options w/Port Developer & cruise lines
- Discuss operation with Building/Fire Officials
- Budget Appropriately
- Prepare Design-Build Bid Package
 Parameters, Warranties, Training, Spare Parts...
- Help evaluate Proposals
- Help Coordinate installation



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