

Railroad Maritime
History,
Modeling and Operations

Gerry Glancy

An apology

Old wine in new bottles

Hallmark of adult education....

An apology

Old wine in new bottles

Hallmark of adult education

is repetition

Introduction

Contemporary Railroad Maritime



Step 1

Step 2



End of story

Here's the Real Story

Railroads and water
are inextricably connected



Golden 100 years 1880-1980

Labor intensive

Inefficient

Didn't change much

Got the job done

Excellent modeling and

Operational opportunities

What's the modeling attraction?

Industrial setting

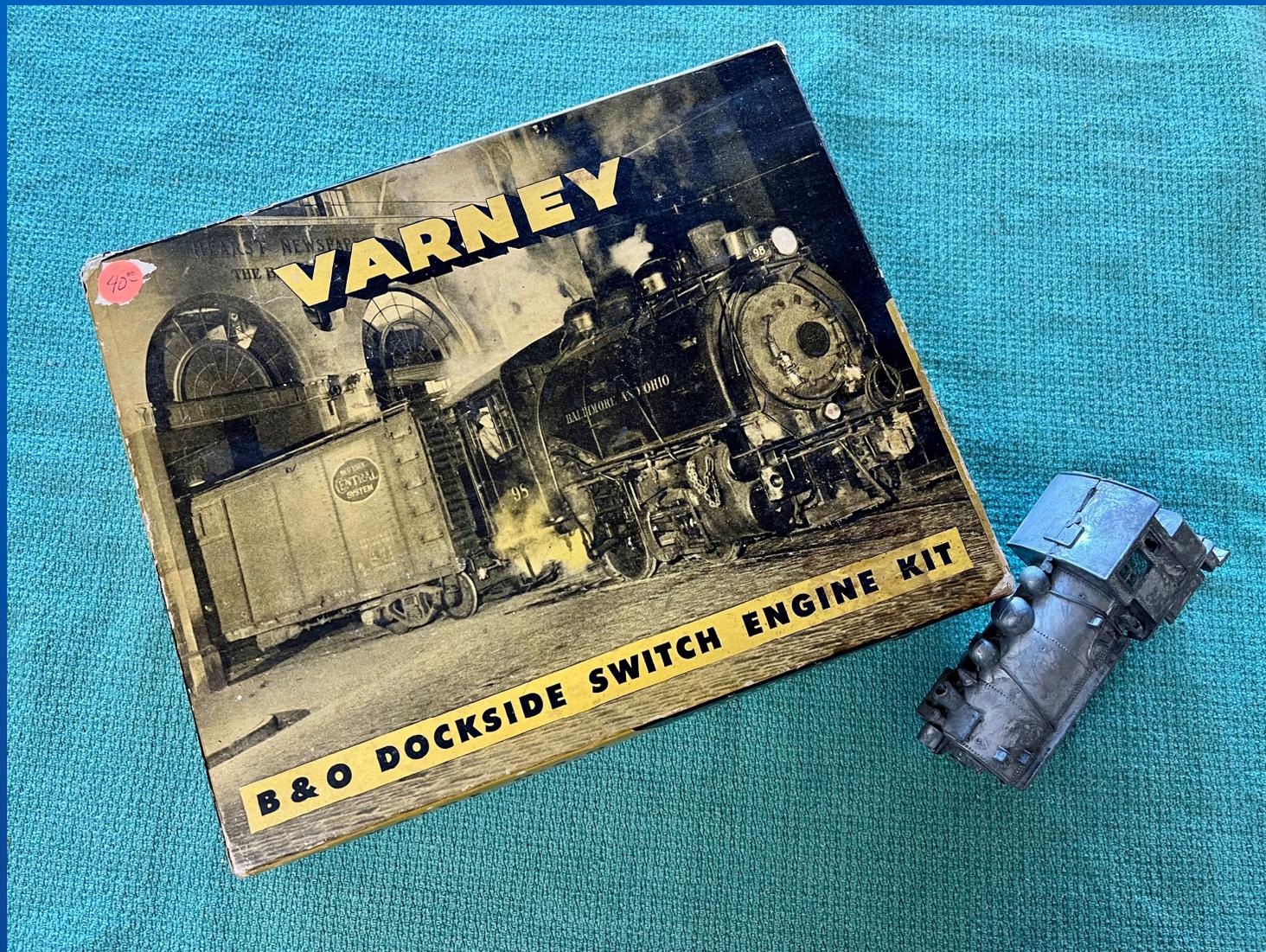
grit and grime

Intricate track work

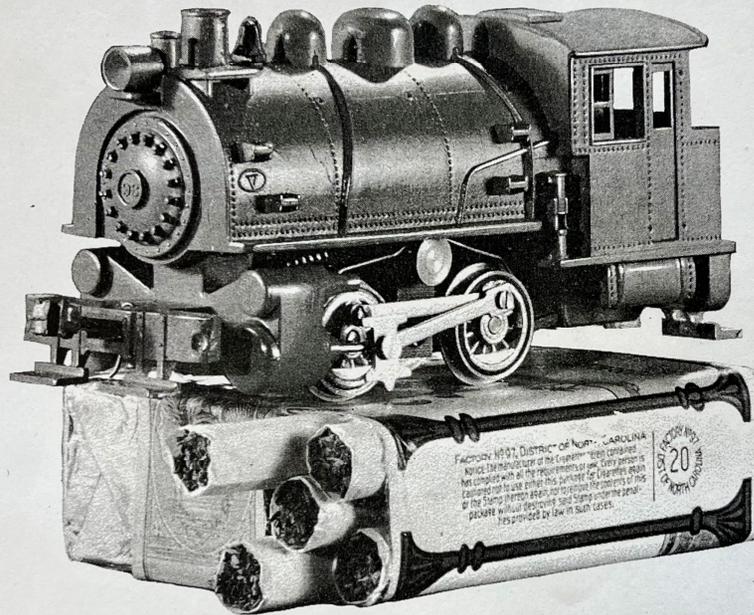
Tight curves

Small locos

Remember this?



and this??!!



B & O DOCKSIDE SWITCH ENGINE KIT

Let's get started

Anybody can do it

The poster child

A river runs through it

Gales of November

Go west, young man

Anybody can do it

Generic elements of railroad maritime

Ships

Lighters

Tugs

Rail piers

Car Floats

The Cargo Ships

They evolved over 100 years

Sail

Sail/steam

Steam

Diesel



Length increased 300 to 600+ feet

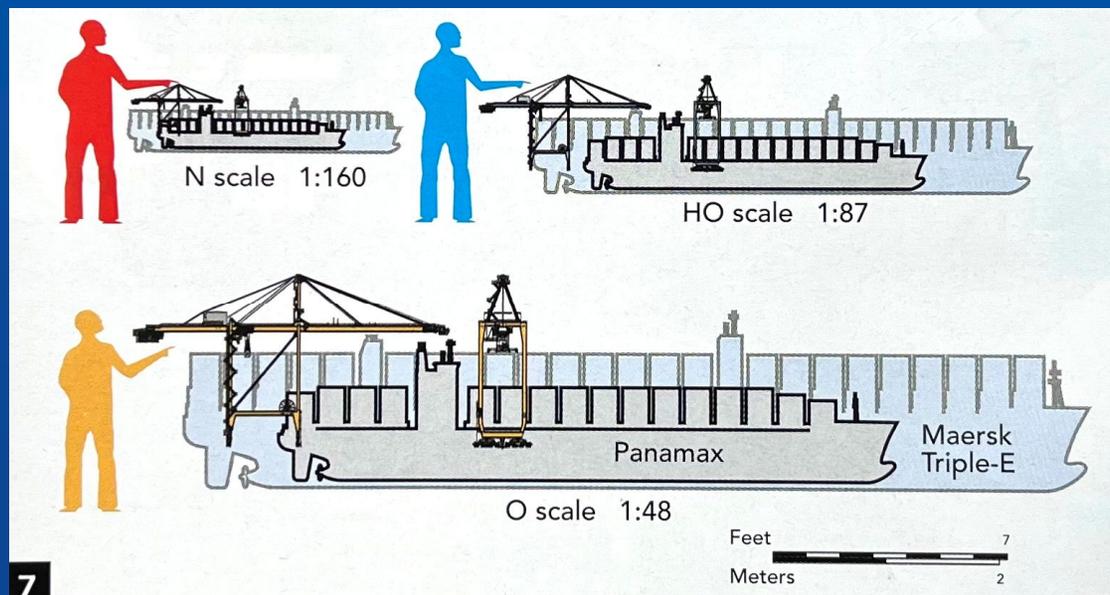
The Modeling Problem



CMRRM "Yakina Bay" 490 ft.
6 feet in H0 scale

This is the elephant in the room

It gets even worse



A solution is at hand!



It can look really good!



Glenn Runkewich

They are out there



Ho Scale Liberty Ship Unpainted



hoscaleships (1064)

99.5% positive · [Seller's other items](#) · [Contact](#)

US \$350.00

as low as \$31.42/mo with **Klarna**. [Learn more](#)

Condition: **New** ⓘ

Quantity: 1

Last one · 4 sold

Buy It Now

They are out there



Sylvan Scale Models HO1115 HO Scale 152'
Great Lakes Ship Langell Boys Resin Kit



But do you need a ship? Break bulk era



Transit shed



Lighter

You don't need a ship to do railroad maritime



Lighter

Stick lighter

What does a lighter do?

Models of Lighters



MULTI-SCALE WOODEN DECK SCOW HO
Model Railroad Waterline Boat Resin Kit...
Brand New

\$66.49



Sea Port Model Works H130 HO 73" Open
Barge w/Cabin Mast & Boom Kit
Brand New

\$93.46



COVERED WOODEN BARGE HO Model
Railroad Waterline Boat Unpainted Resin...
Brand New

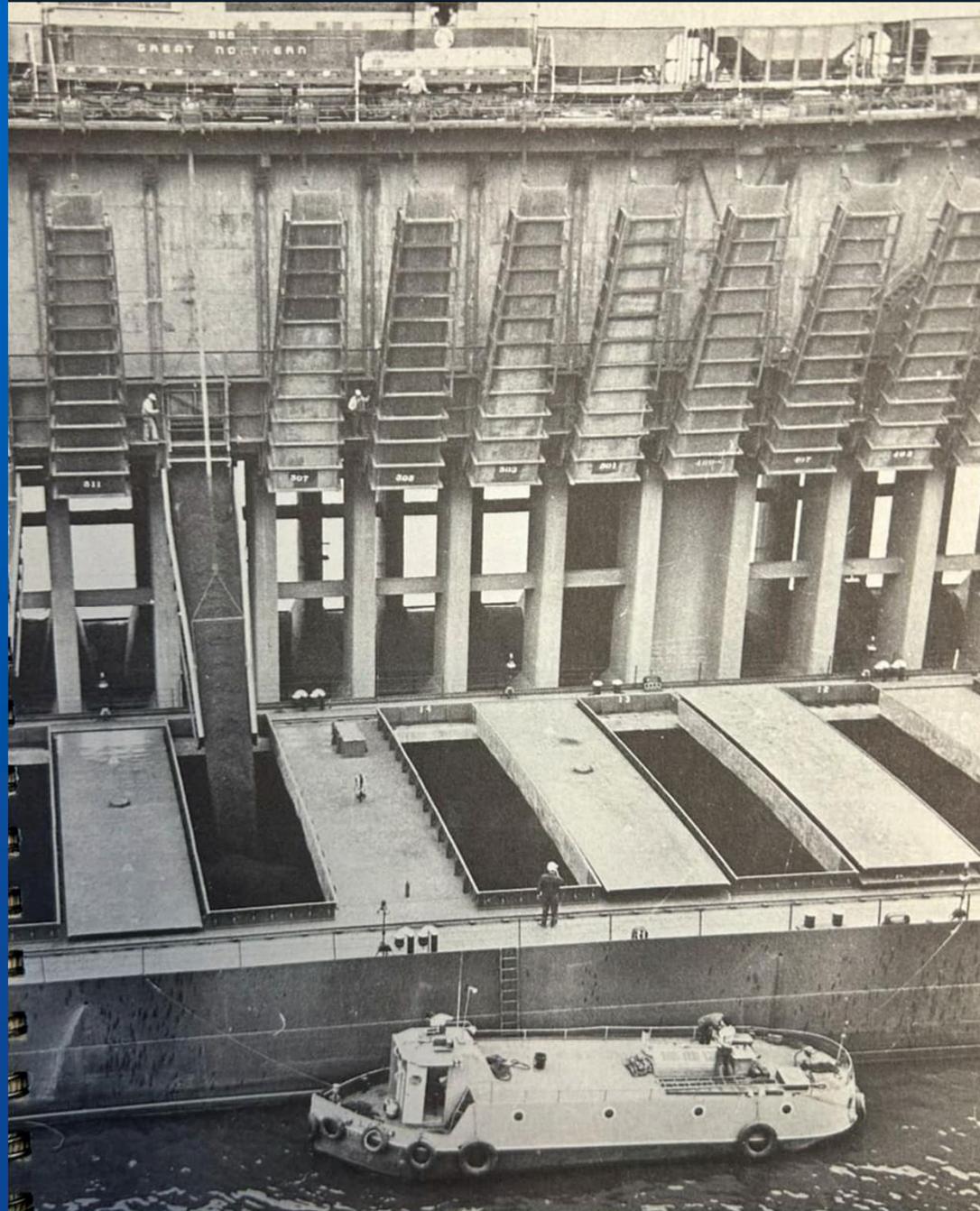
\$129.95

Don't forget a Bum boat



Crew supplies

The full view



Railroad Tug Boats



Railroad Tug Boats



Steam

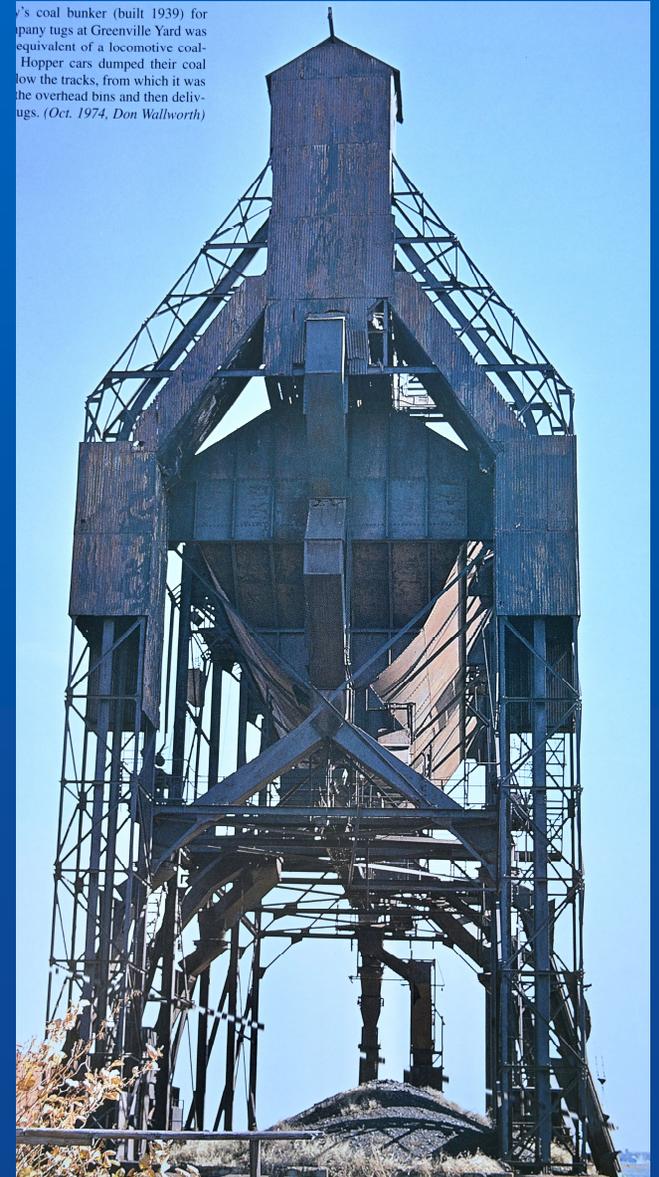


Diesel

Tugs need fuel/water



Company's coal bunker (built 1939) for company tugs at Greenville Yard was equivalent of a locomotive coal bunker. Hopper cars dumped their coal into the bunker, from which it was delivered to the overhead bins and then delivered to the tugs. (Oct. 1974, Don Wallworth)



Car Floats

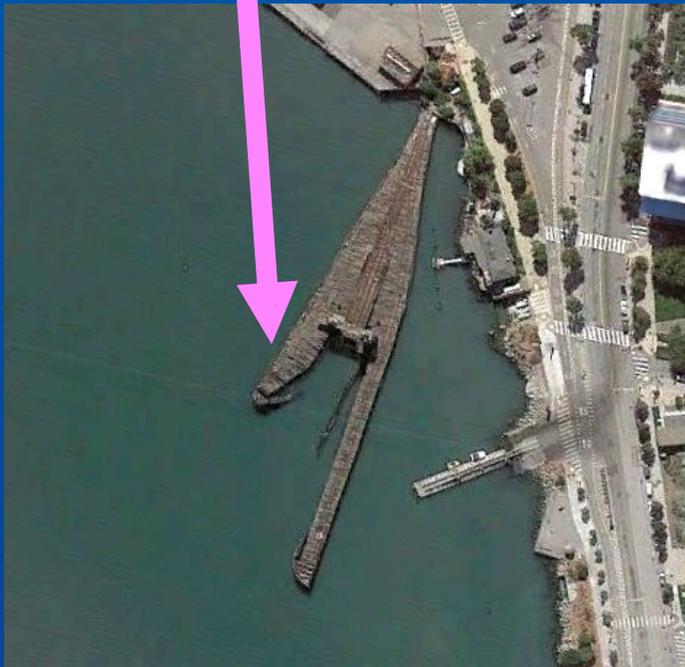


Civil War

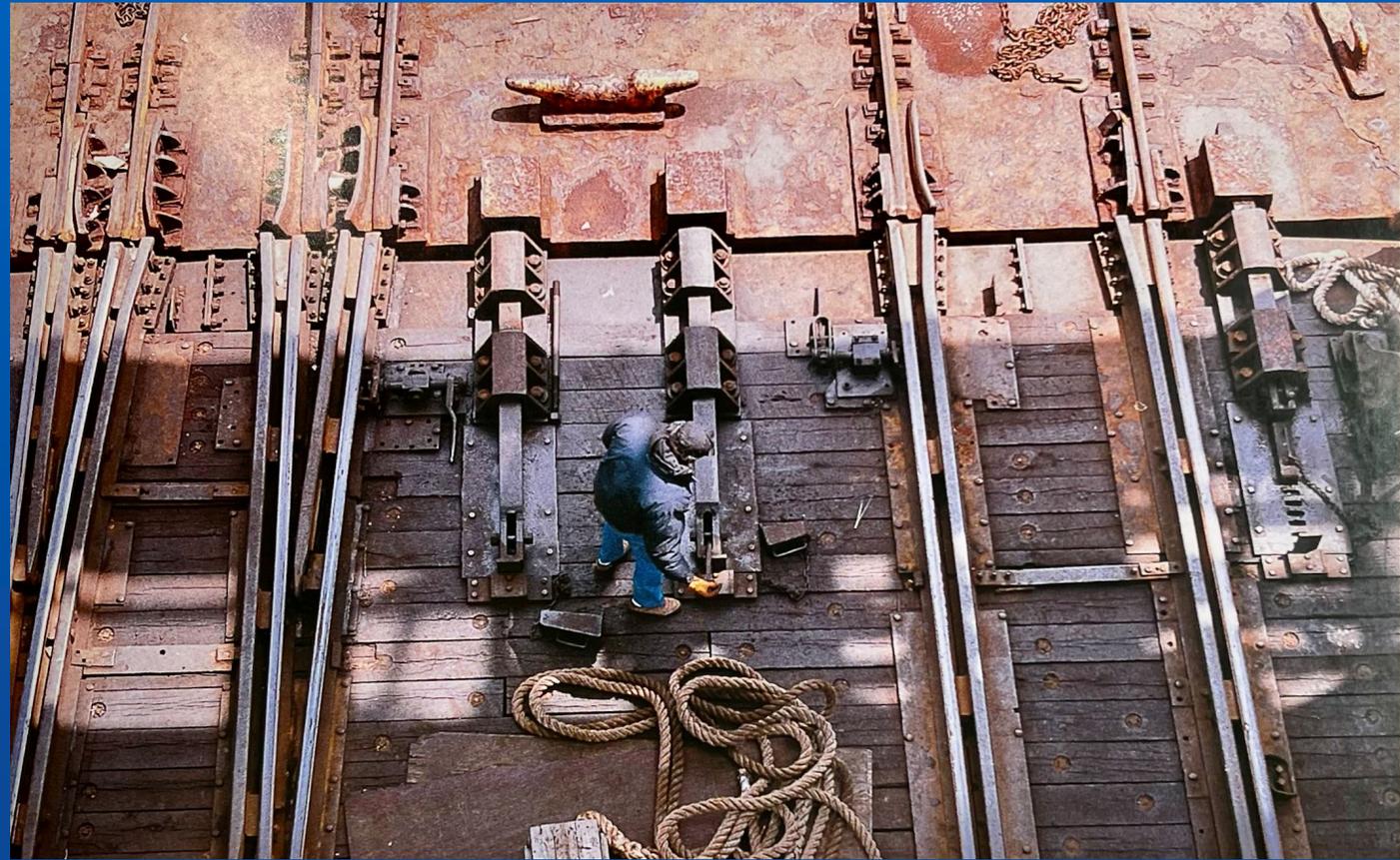
Standard Float



Railroad pier
Gantry
Apron
Dolphin



Docking a car float



Hole in the donut



Coming closer...



Right there!



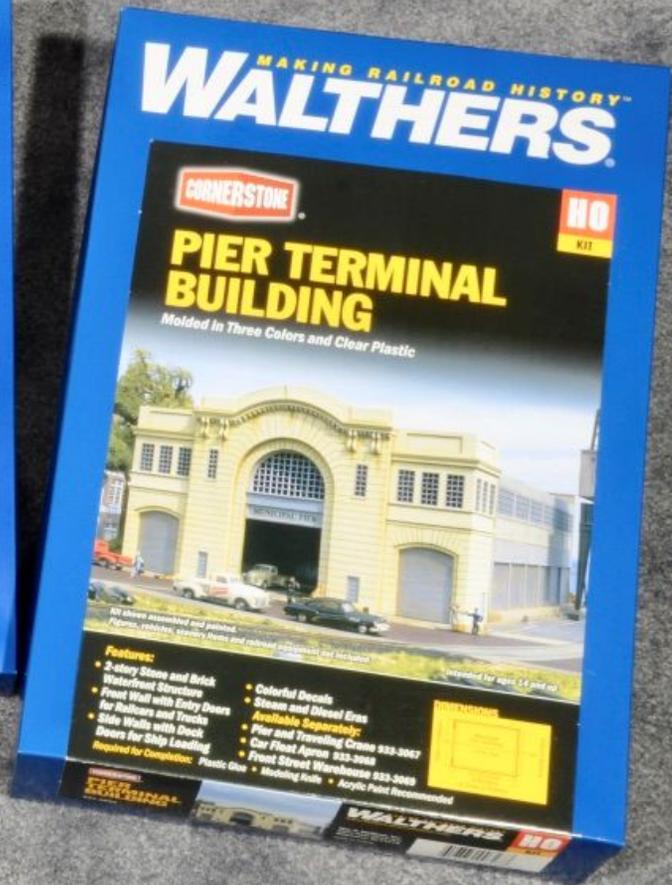
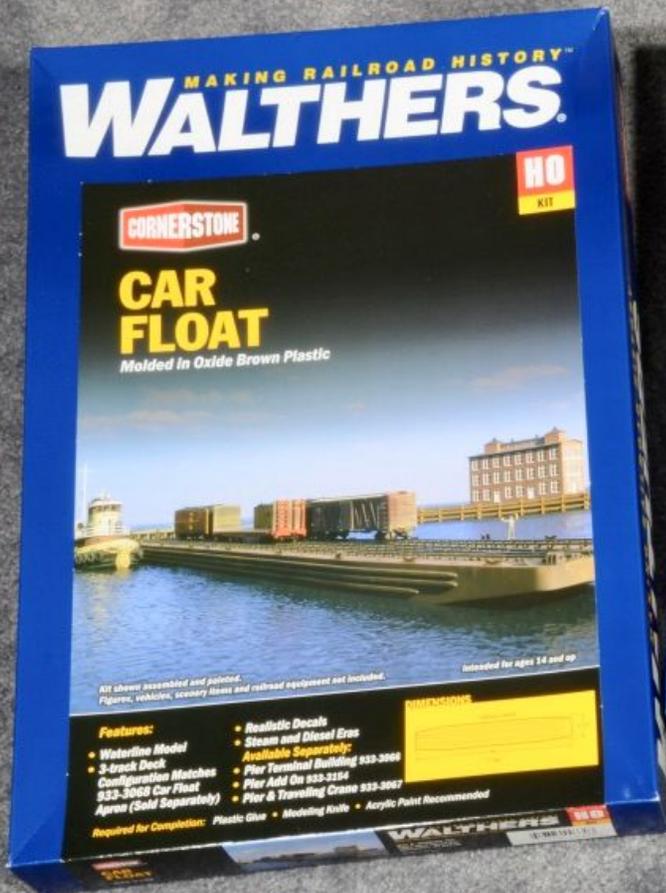
Done!!



It wasn't always easy!



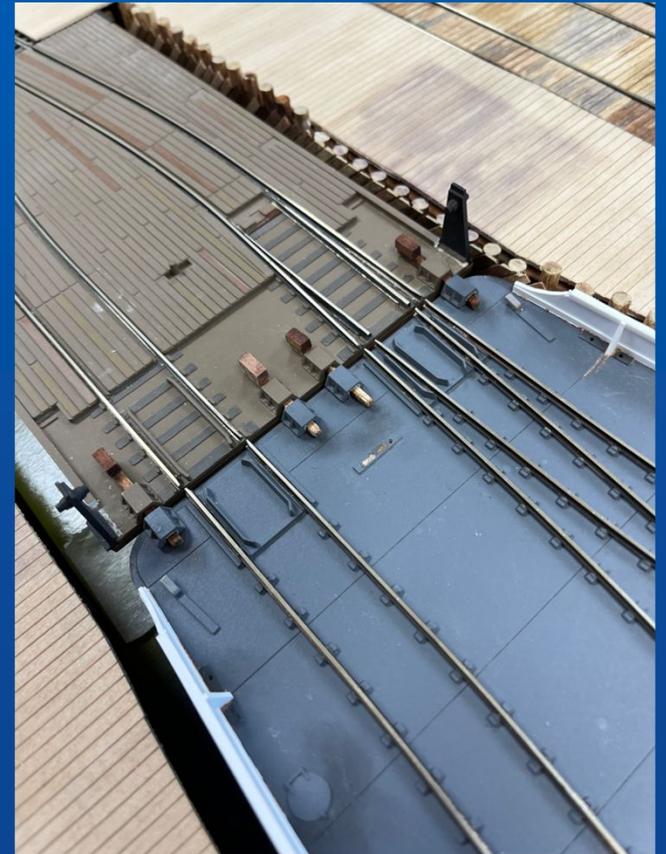
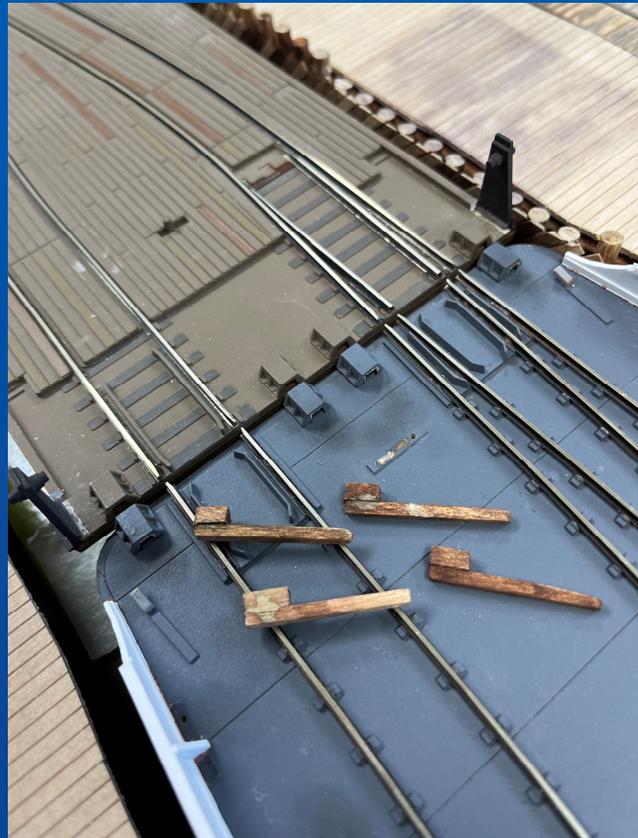
Walther's Maritime Models



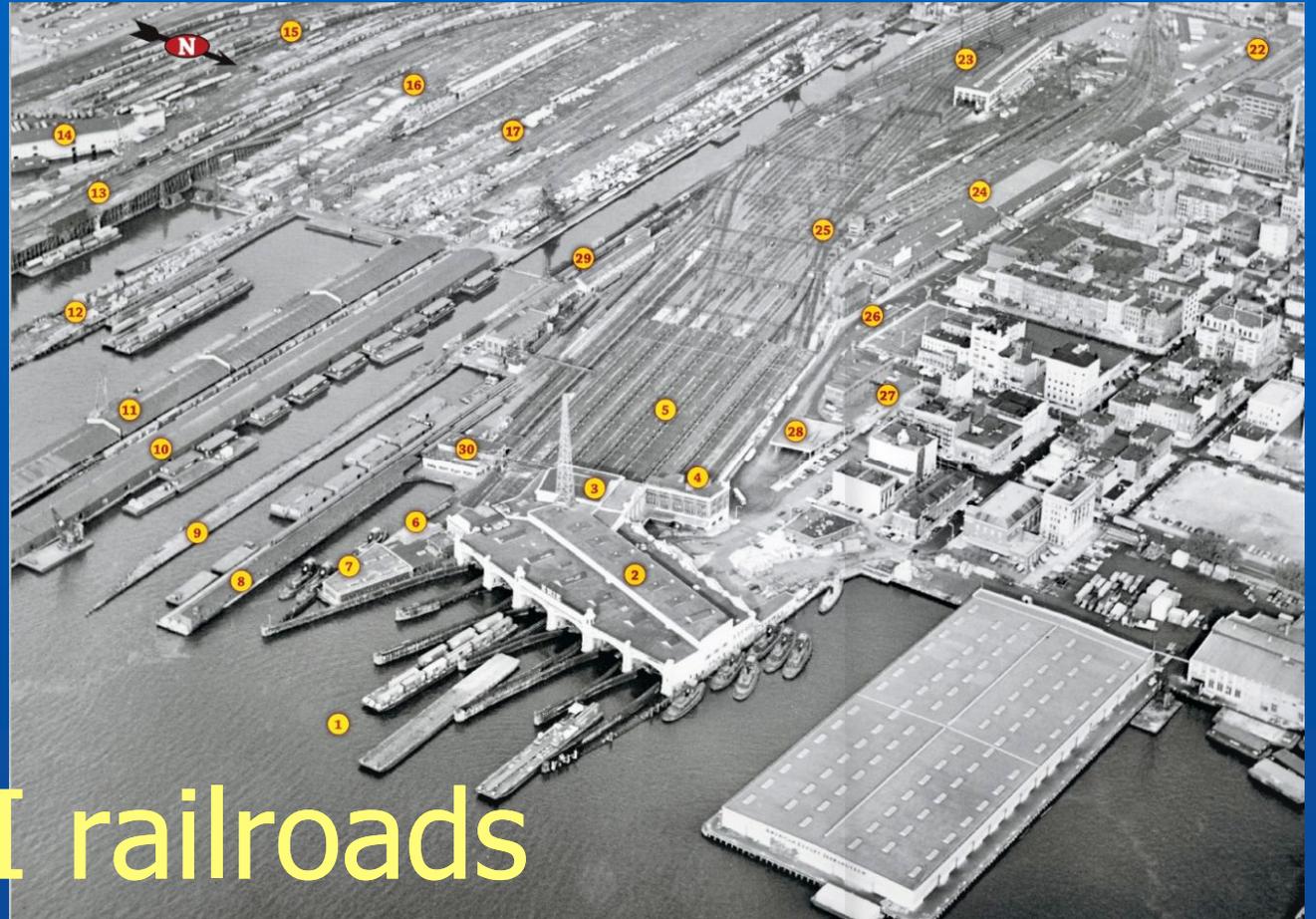
Modeling Tug and Car Float



Model docking



The Poster Child-New York



11 Class I railroads

5 belt lines

3,000 cars/day

New York Harbor



IN THE DAY!



IN THE DAY!



In addition

Passenger ferries owned by the railroads



Car Floats

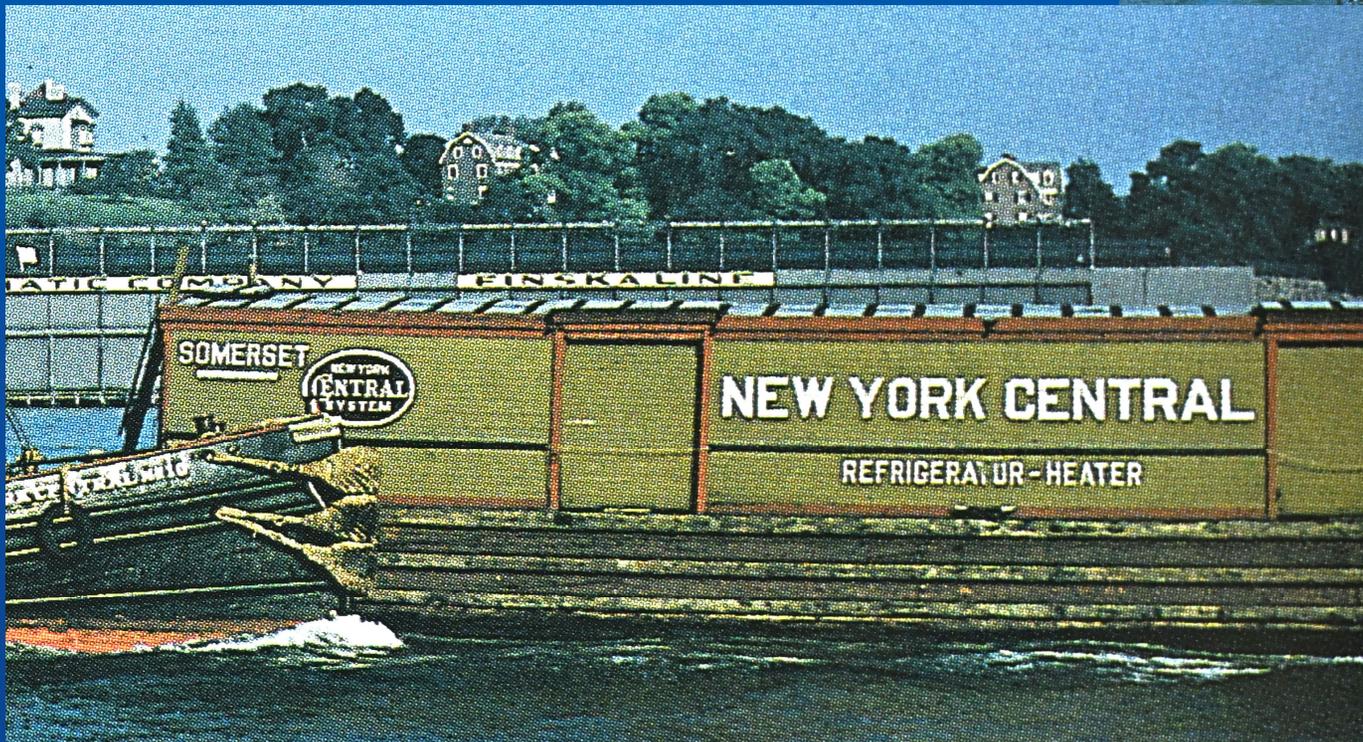


Standardized

Platform float



Covered Lighters



Bulk commodities

Coal



McMeyler Unloaders

Bulk commodities



Grain Elevator - note lighters

Bulk commodities



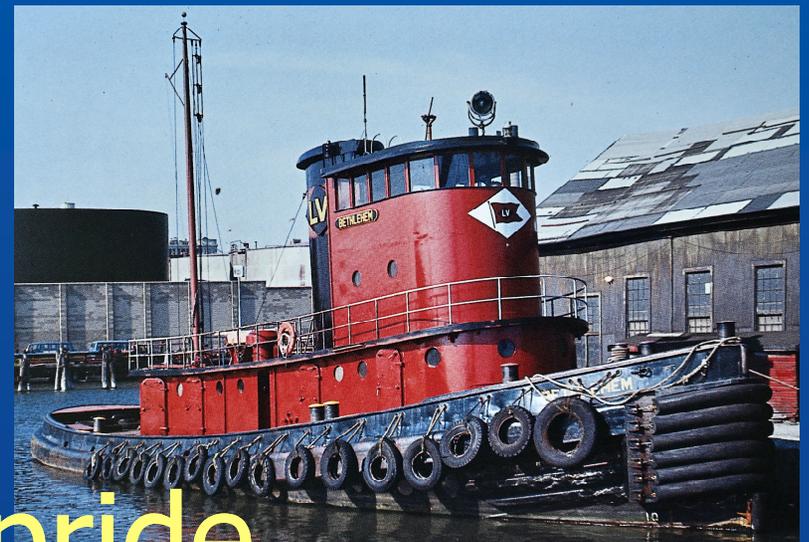
Grain - floating elevator

Bulk commodities

Grain



Those beautiful tugs



Railroad pride

The Mergers

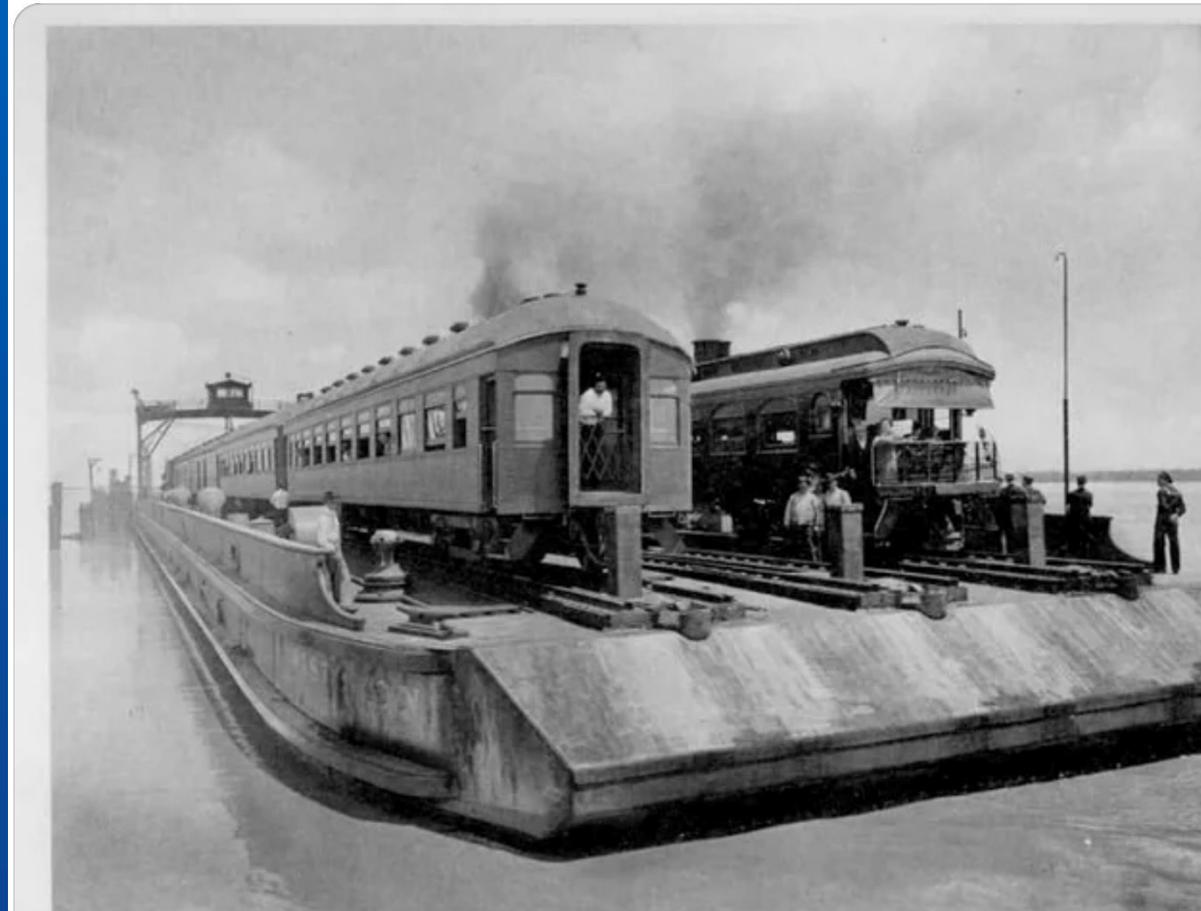


A river runs through it...

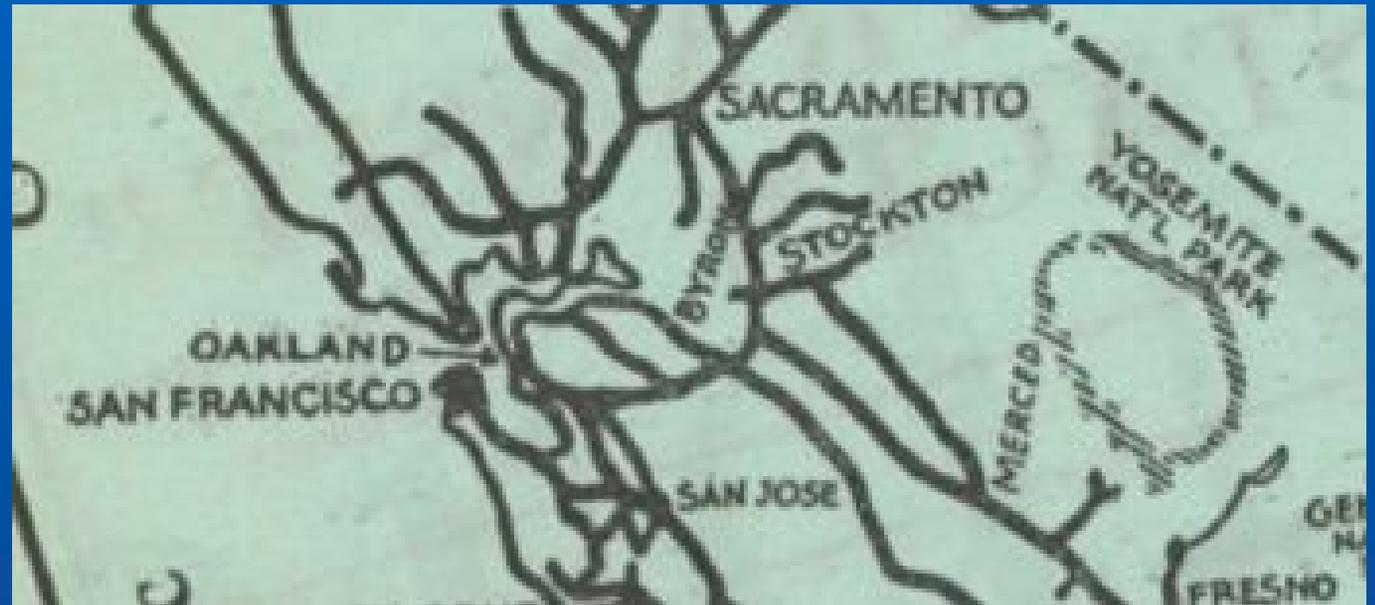
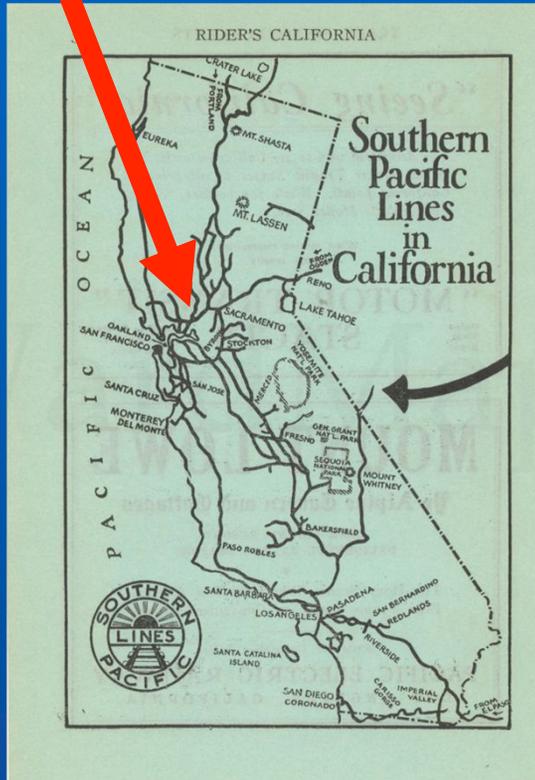
Missouri
Mississippi
Sacramento

Why??!!

Rail ferry in New Orleans carries train cars across the Mississippi before there was any bridge [1910s/20s]



SP for example

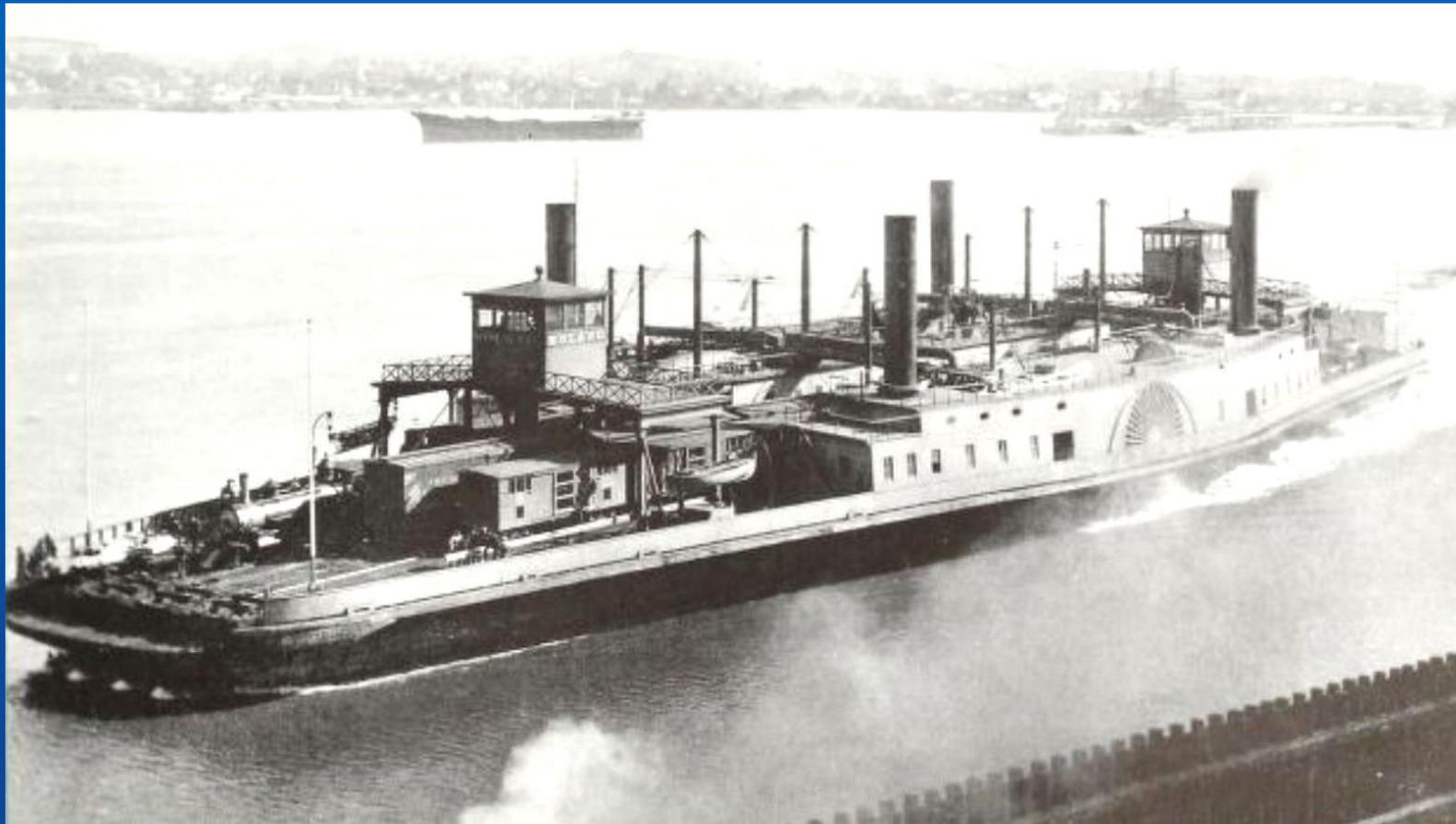


1925

Southern Pacific

The whole train crosses the river

Port Costa - "Solano"



Carquinez Strait bridge - 1930

Carquinez Strait bridge - 1930



SOUTHERN PACIFIC CO.
MARTINEZ - BENICIA BRIDGE
STARTED APRIL 1929
FINISHED OCTOBER 1930

viewer

Southern Pacific

The whole train crosses the river

New Orleans



Huey Long Bridge - 1935

Huey Long Bridge

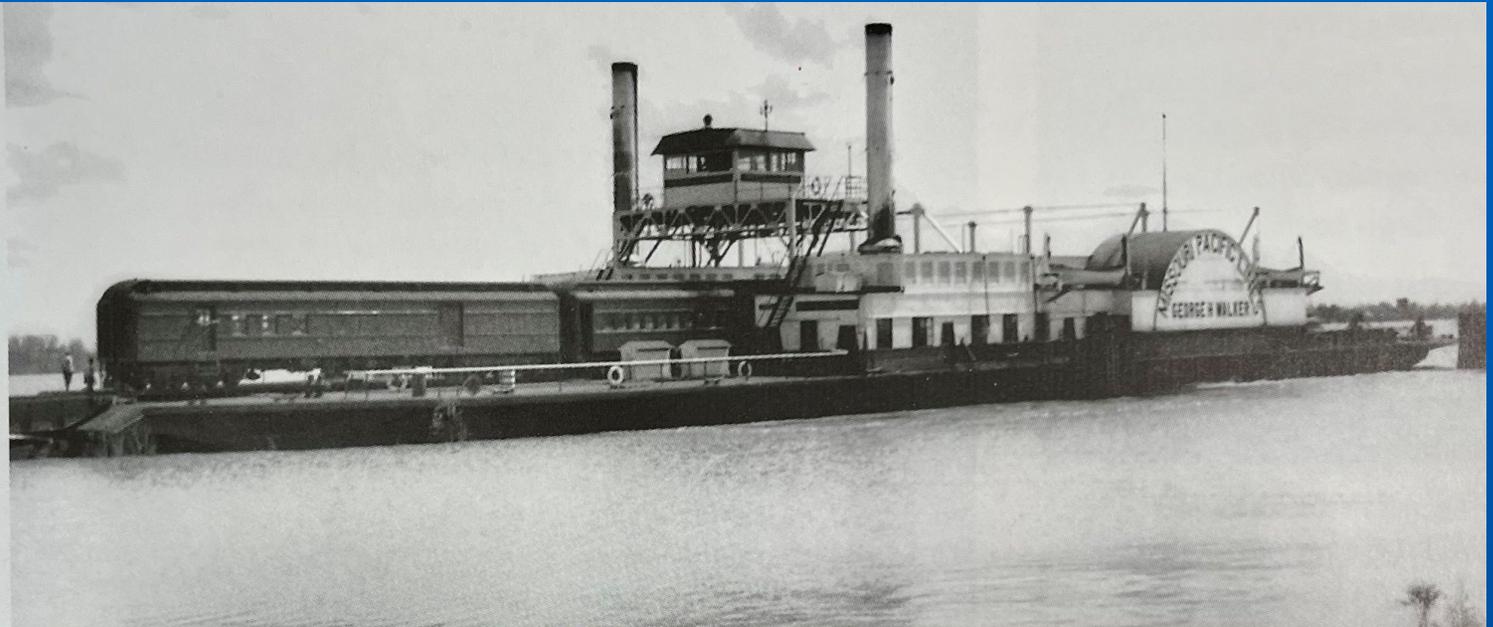


1935

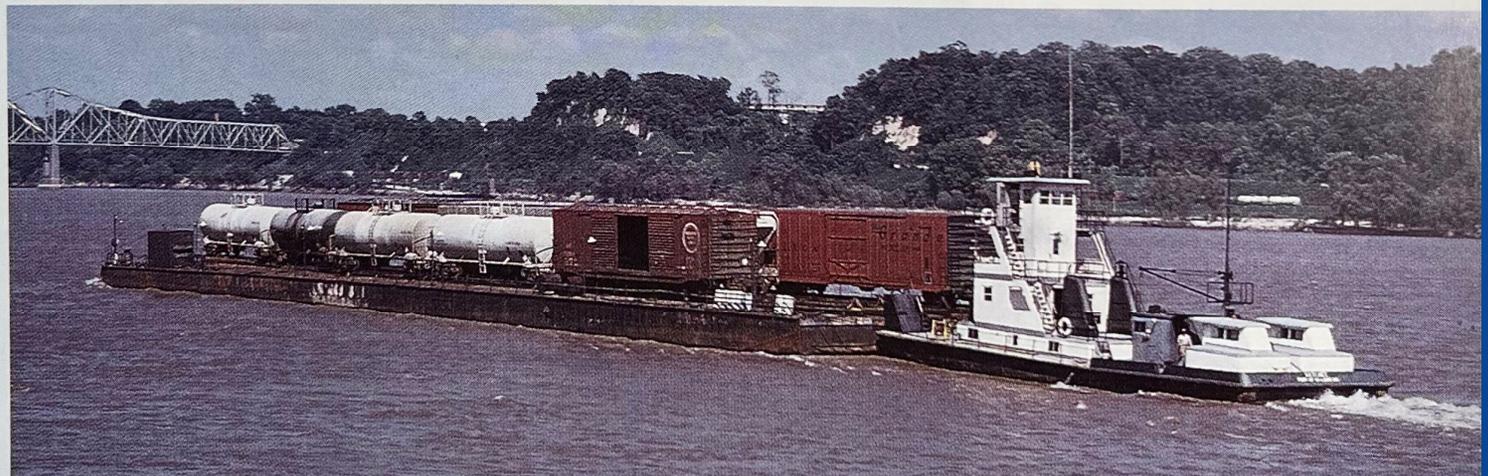
Other river examples

and carfloat at the sawmill at Slocan City, British Columbia. Photo from the Houser Collection.

Top Right: Missouri Pacific carferry, George H. Walker, approaching the Anchorage, Louisiana apron across from Baton Rouge in March, 1937. This carferry was one of the largest on the Mississippi River. The car ferry was a link in MP's Houston-New Orleans service. Photo by A.E. Brown from the collection of Louis Saillard.



Bottom Right: Tow boat Natchez shoves a loaded carfloat from Vidalia, Louisiana towards Natchez, Mississippi in the distance in May, 1974. Photo by Louis Saillard.



Gales of November



What's so special about The Great Lakes ?

Fresh water

vz

Salt



Wind and waves

Just ask this boat

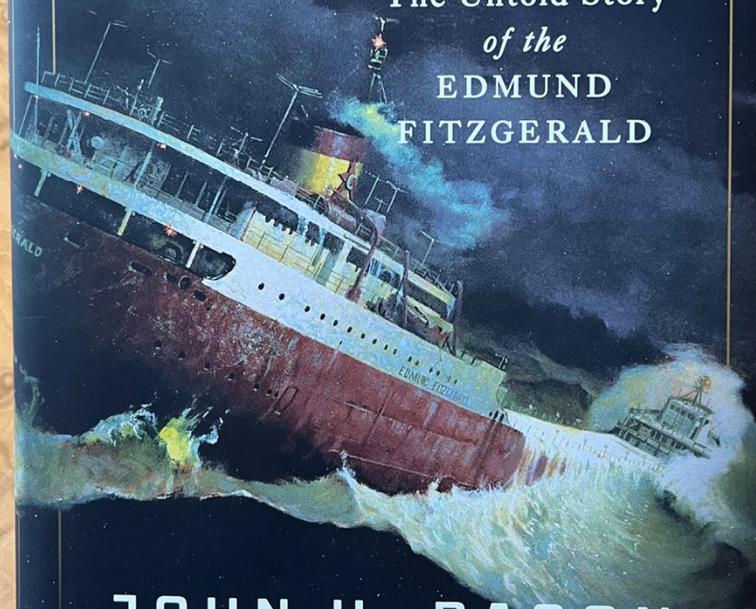


The 729-foot ore boat Edmund Fitzgerald, shown in 1972 file photo, in Marie, Mich.

10 November 1975

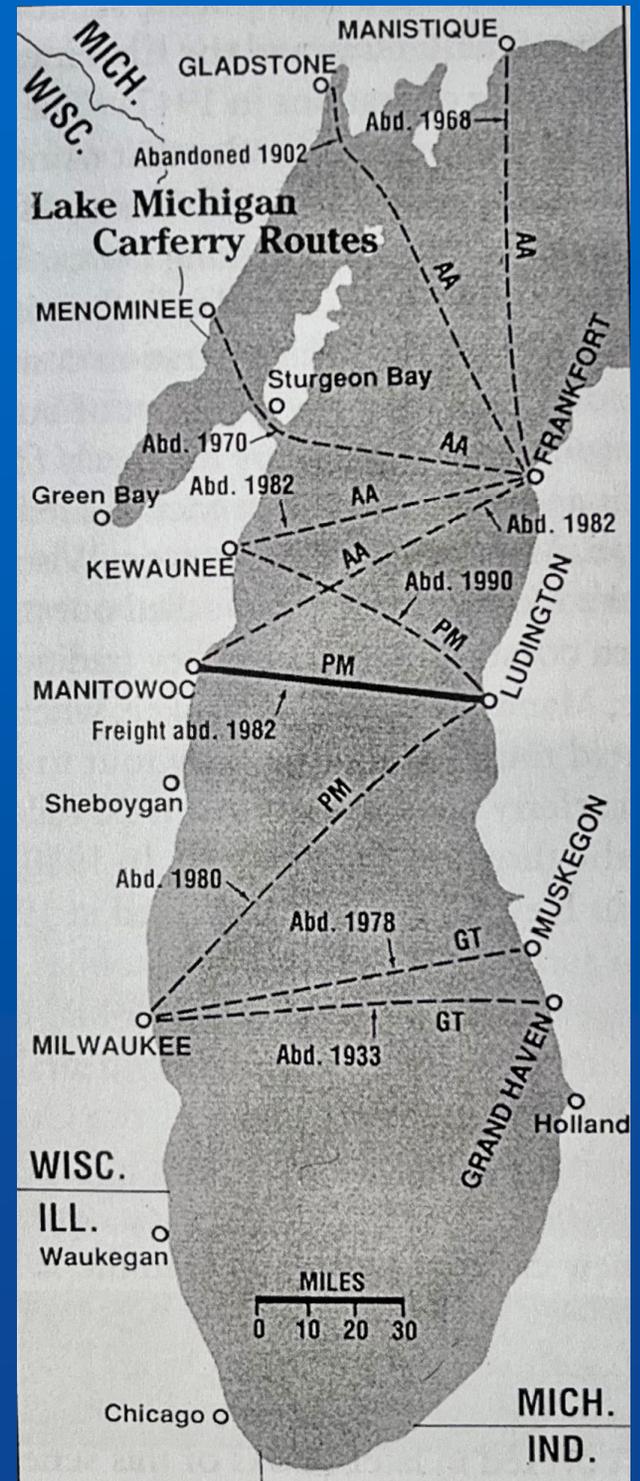
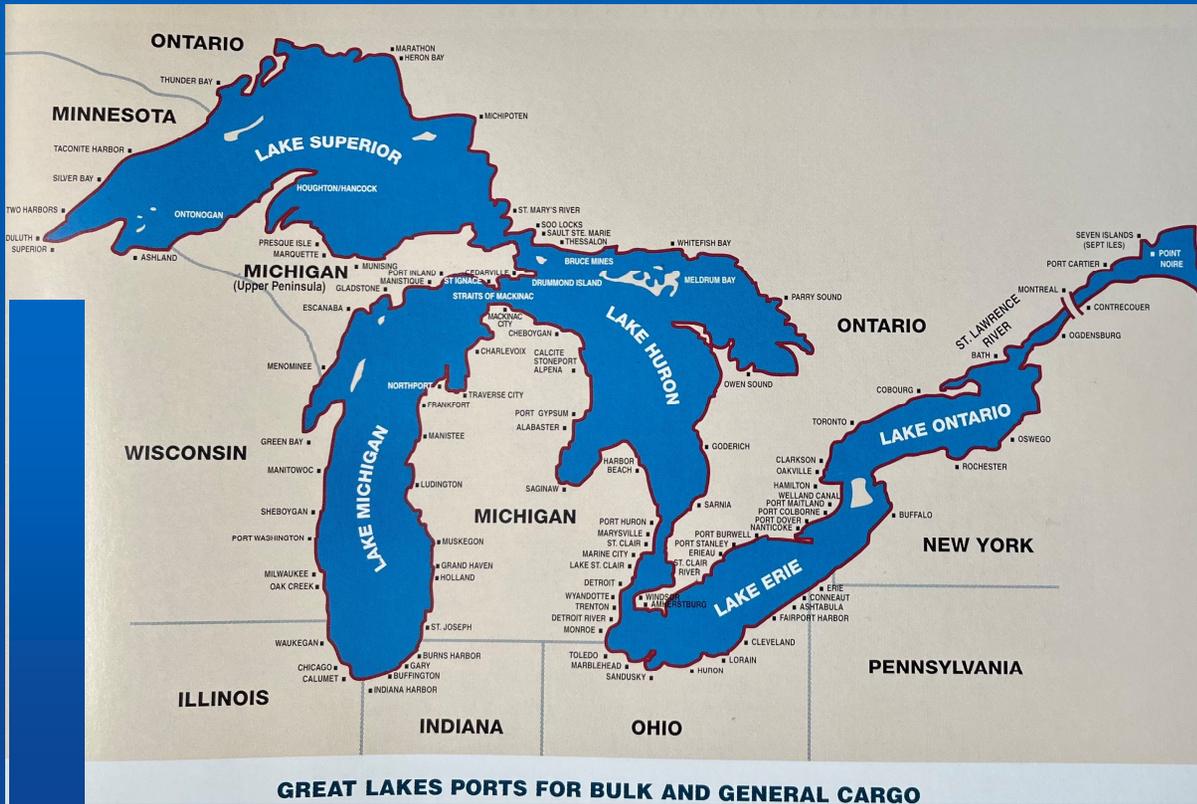
THE GALES OF NOVEMBER

The Untold Story
of the
EDMUND
FITZGERALD



JOHN U. BACON
NEW YORK TIMES BEST-SELLING AUTHOR

So what about railroads and the Great Lakes? Shortest Cheapest



Fastest (Chicago)

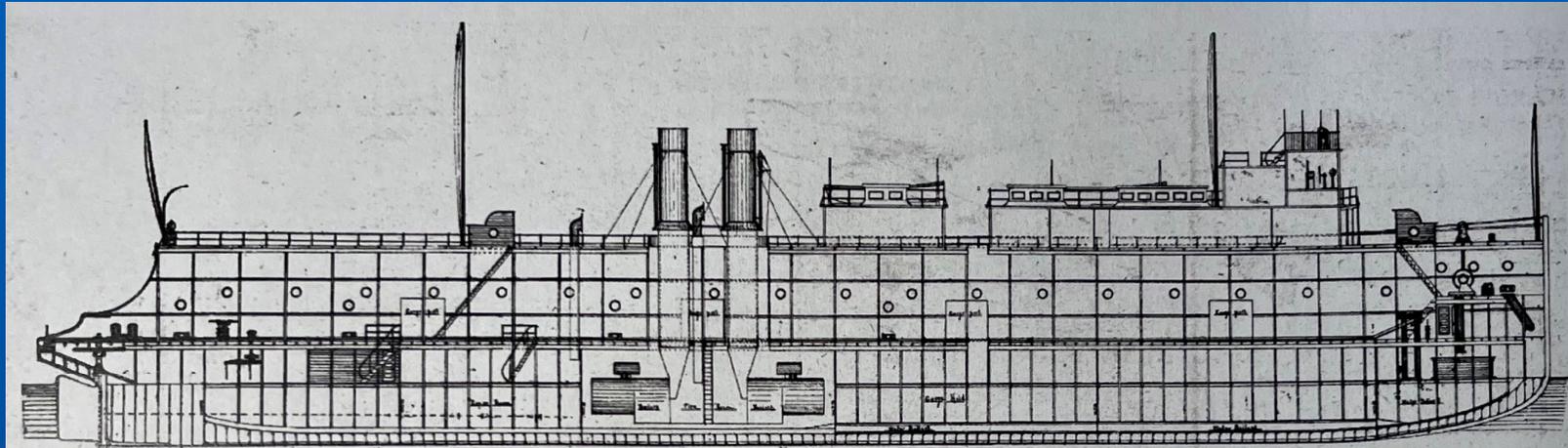
Great Lakes must super size Car Ferry - Detroit river



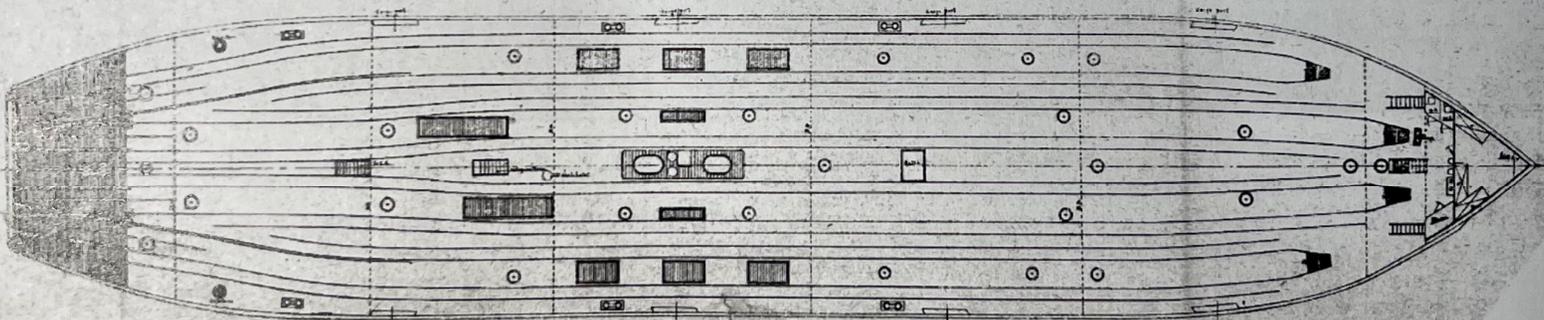
Detroit, Wabash, 130 years

Great Lakes - Car Ferries

Evolution: wood to steel
steam to diesel

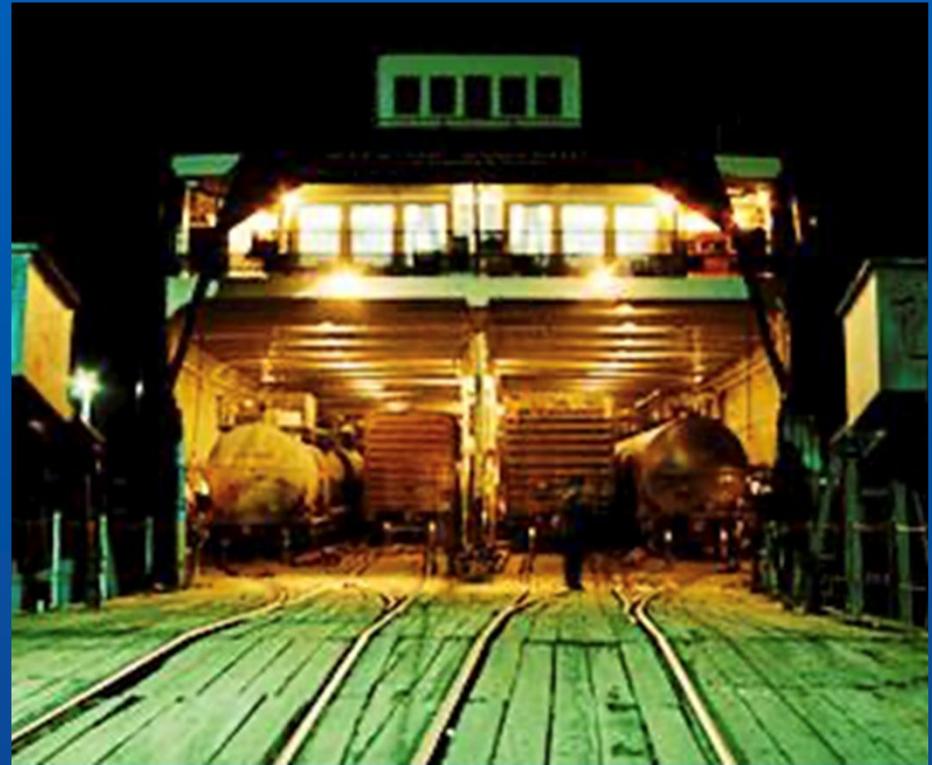


PLAN OF THE TWIN-SCREW RAILROAD CAR FERRY, OR TRANSPORT,
To be built by the Globe Iron Works Co., Cleveland, to the order of the Ann Arbor Railroad Co., for service on Lake Michigan.

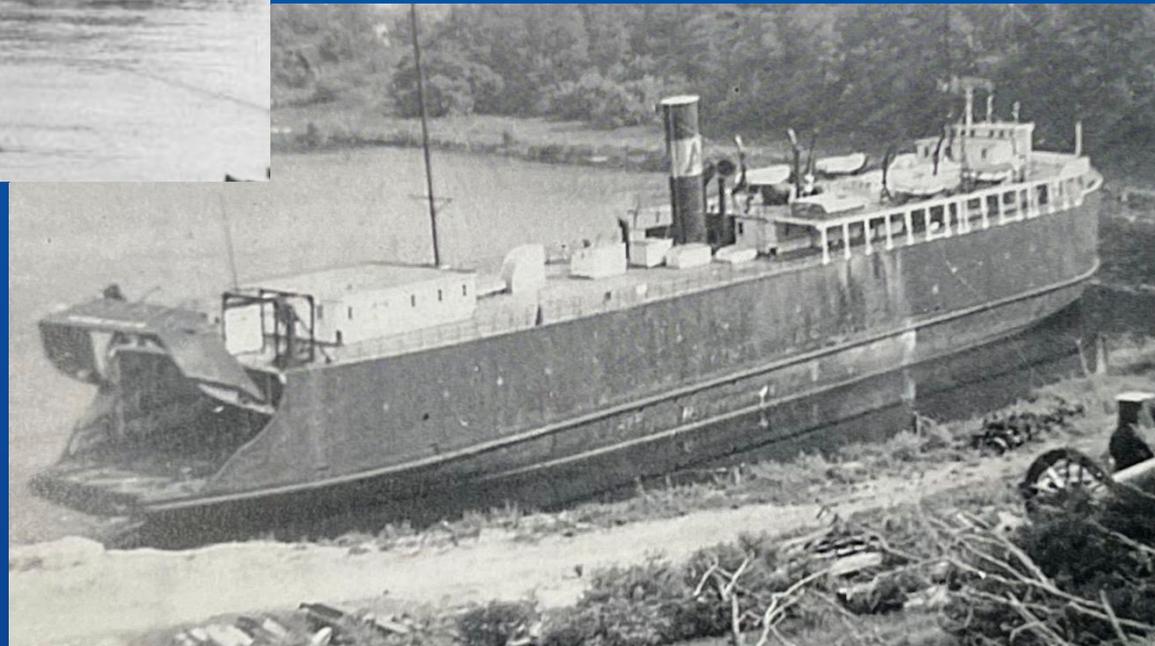
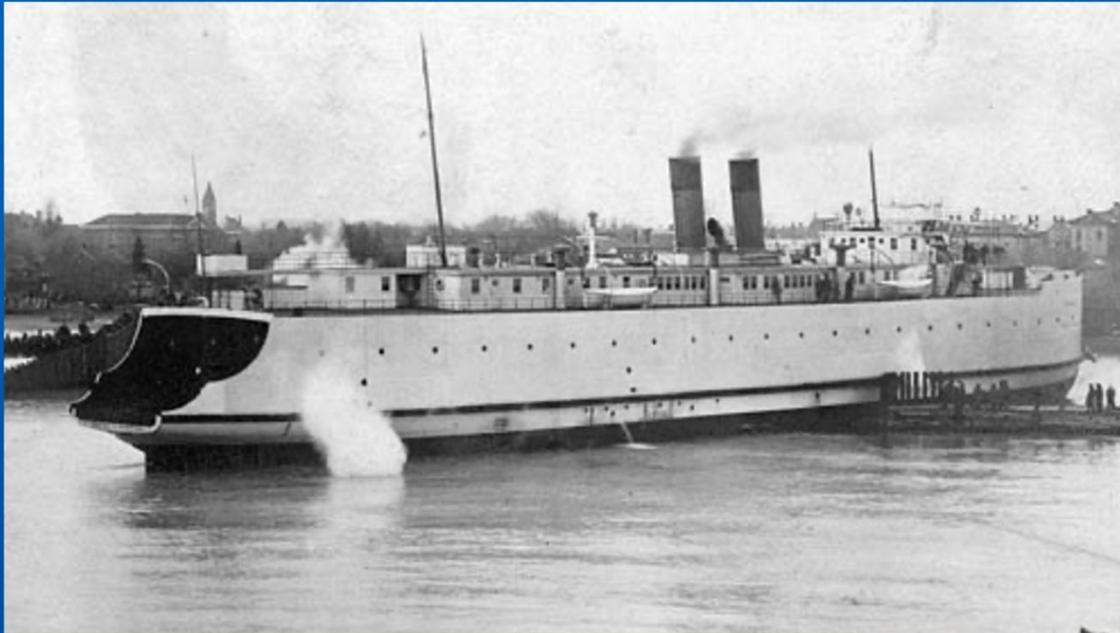


View of the main deck, showing the rails laid, etc.

Bigger is better



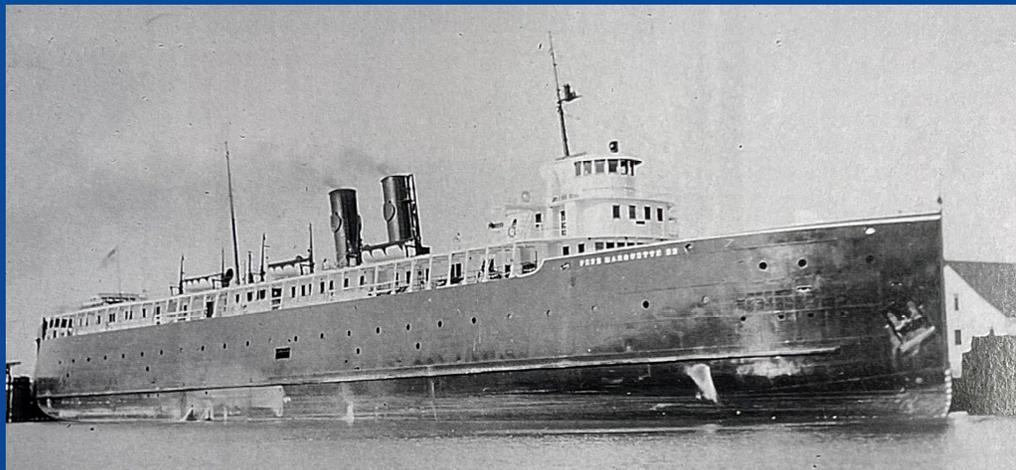
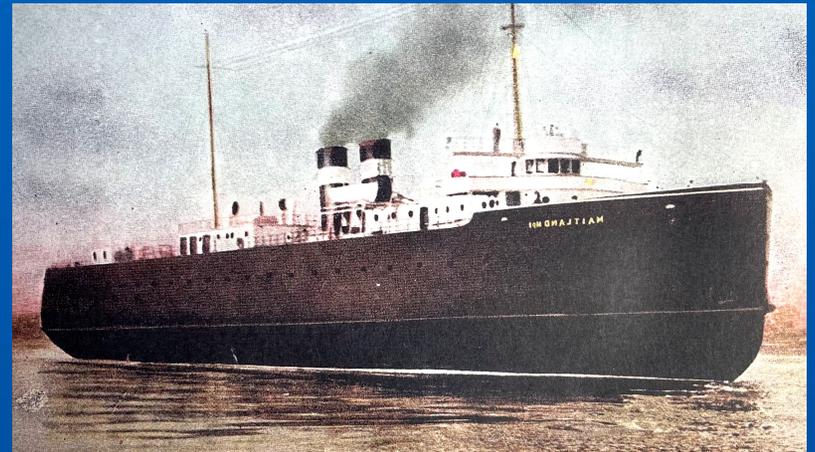
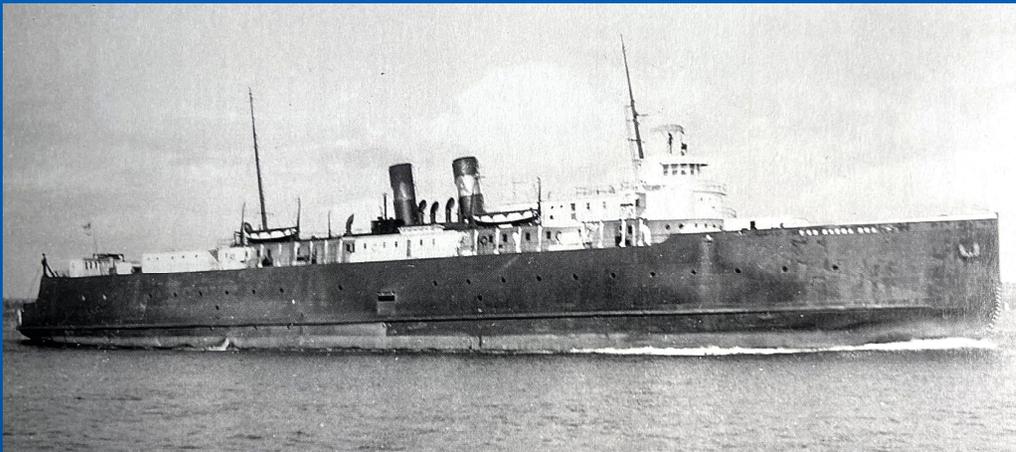
Great Lakes - Car Ferries



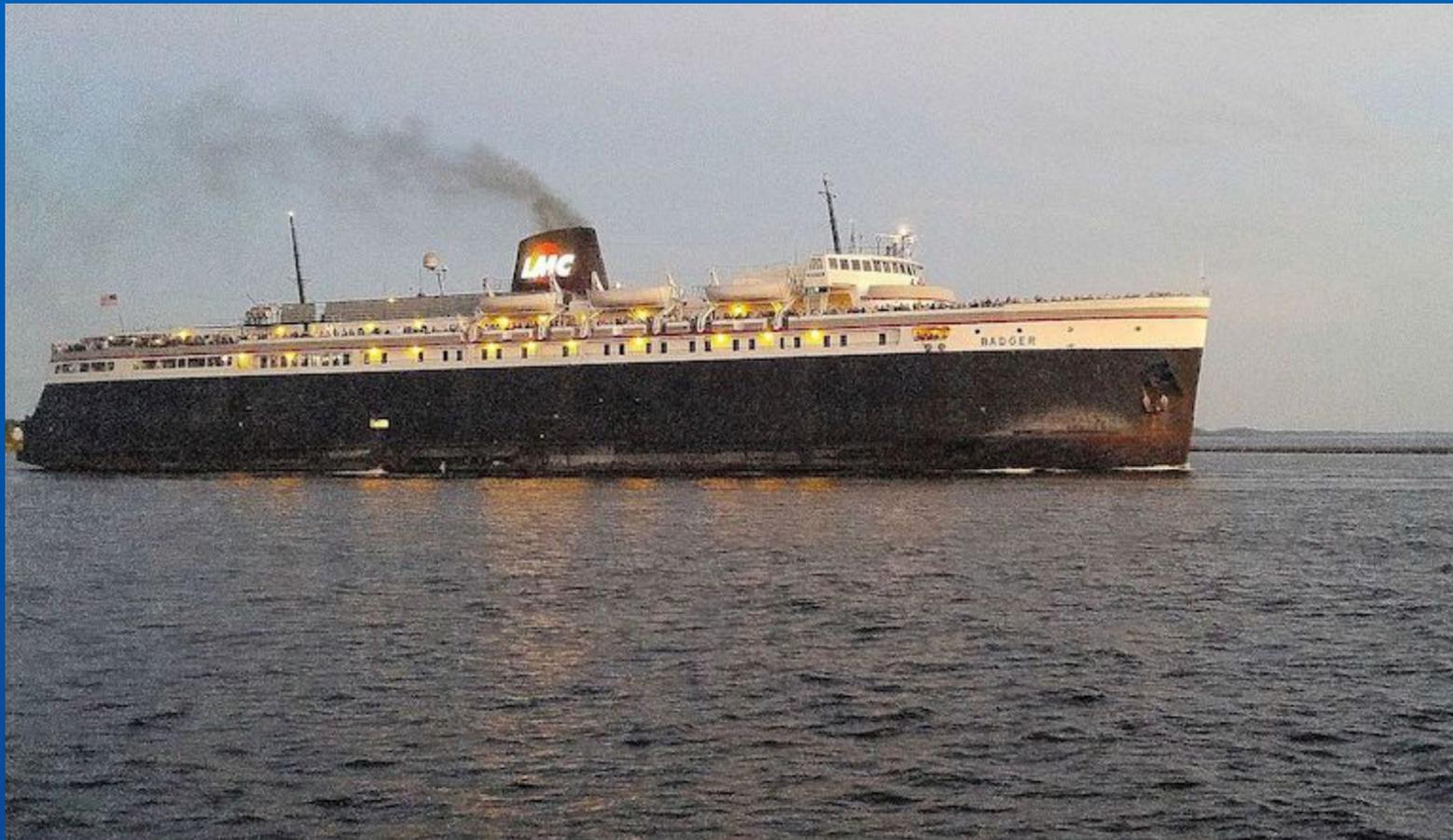
Stern apron

Great Lakes - Car Ferries

Visible differences ?



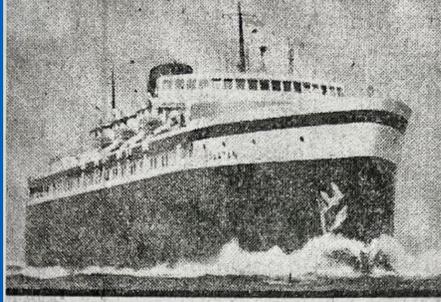
Great Lakes - Car Ferries



The 'SS Badger' entered service in 1953 for the Chesapeake & Ohio Railway; today it runs between Michigan and Wisconsin.

Deluxe accommodations

**Chessie, the Good Ferry,
rides again...**



between Michigan and Wisconsin.

May 24 thru Sept. 9, 1974

A gas-saving, restful short-cut
between Michigan and the Northwest.

DAILY SAILINGS

Ludington to Manitowoc	8:00 AM and 8:00 PM
Ludington to Milwaukee	10:00 AM and 4:00 PM
Manitowoc to Ludington	1:00 AM and 1:00 PM
Milwaukee to Ludington	5:00 PM and 11:00 PM

PASSENGER FARES

		round trip
	one way	(5-day limit)
Adults	\$8.00	\$11.00
Children 5 to 15	4.00	5.50

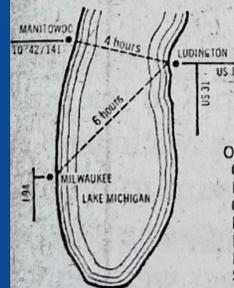
VEHICLE FARES

Automobiles	\$14.00
Pick-up Truck	17.50
Motorcycles	14.00
Bicycles	2.50

CHESSIE CRUISE PACKAGE

A continuous round trip for foot passengers, almost an ocean voyage. One meal included. Free parking at the dock. No reservation required.

Adults \$13.00 • Children 5-15 \$6.50



RESERVATIONS REQUIRED
FOR AUTOMOBILE SPACE

Write to: Chessie System
Ludington,
Michigan 49431

Or call:

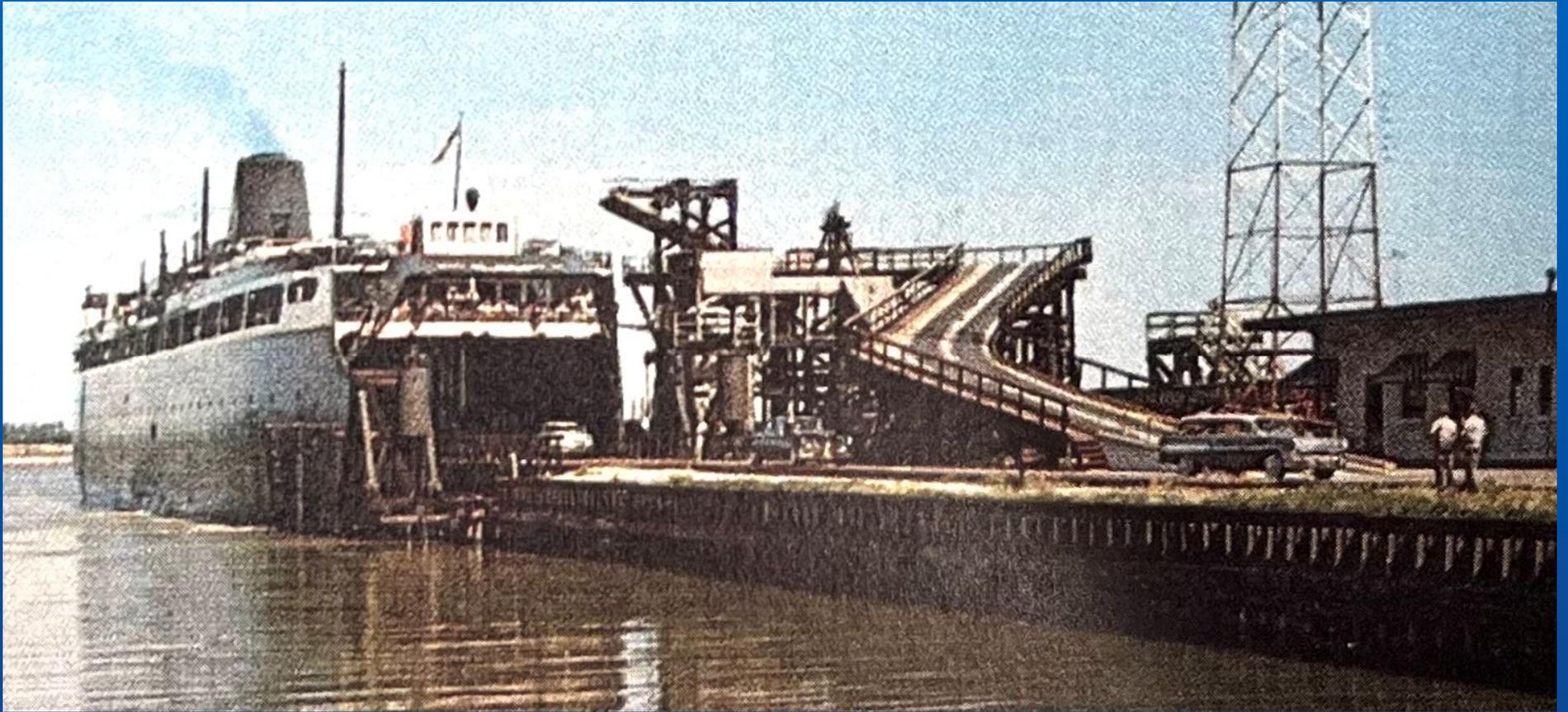
Chicago	(312) 236-0904
Detroit	(313) 444-5250
Grand Rapids	(616) 456-8601
Ludington	(616) 843-2521
Manitowoc	(414) 684-3325
Milwaukee	(414) 481-7950
Saginaw	(517) 753-1471

Dining Room • Lounge Snack Bar
Free Deck Chairs • Cocktail Lounge • Radio and TV

Chessie System

Chessie System 49431 Ludington, Michigan 49431

Great Lakes - Car Ferries



The automobile arrives

Great Lakes - Car Ferries

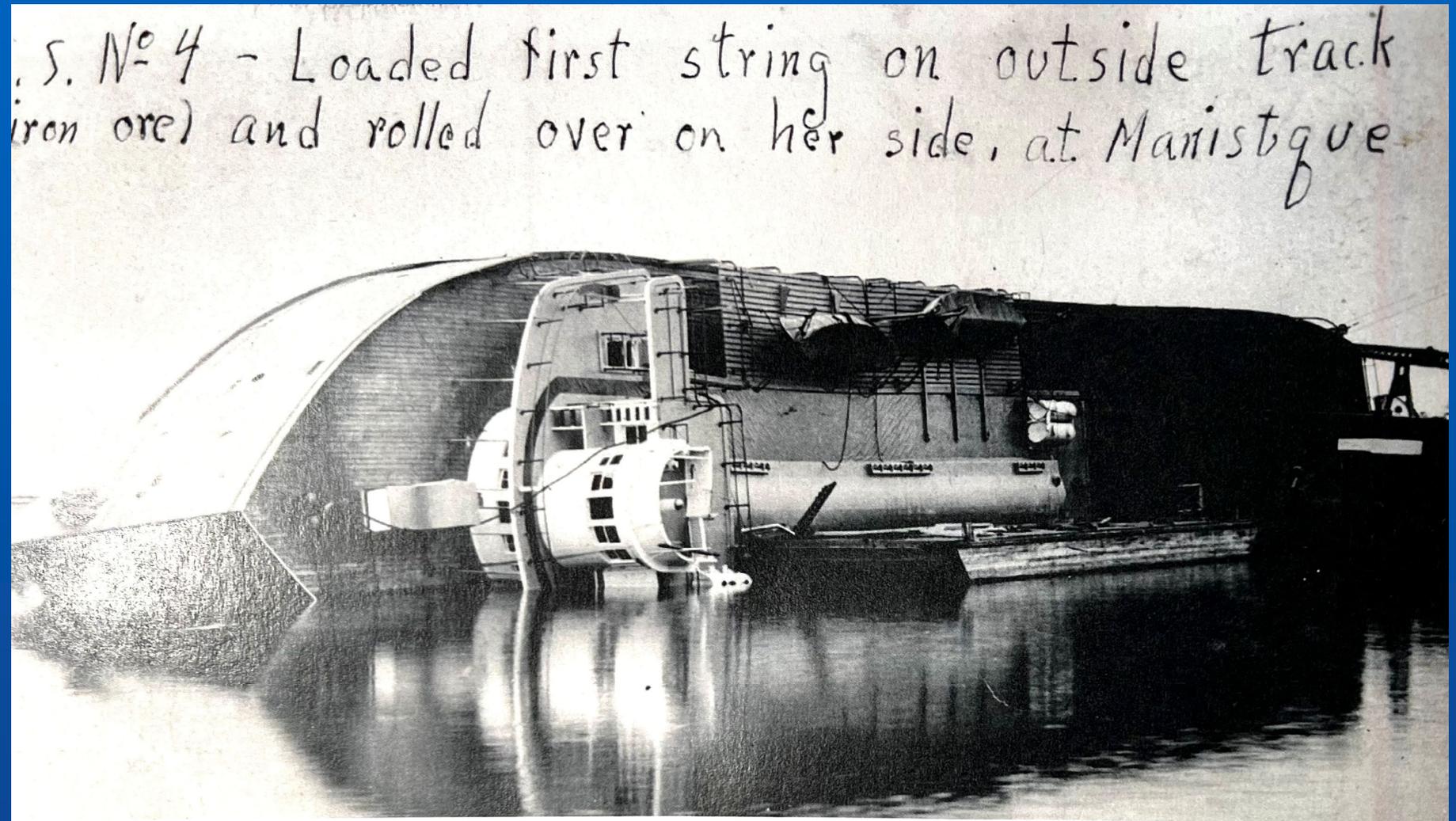


Travel perks

Smoke was trouble



Great Lakes - Car Ferries



On May 29, 1909, *Ann Arbor No. 4* had its first disaster. It was at Manistique, MI

Great Lakes - Car Ferries



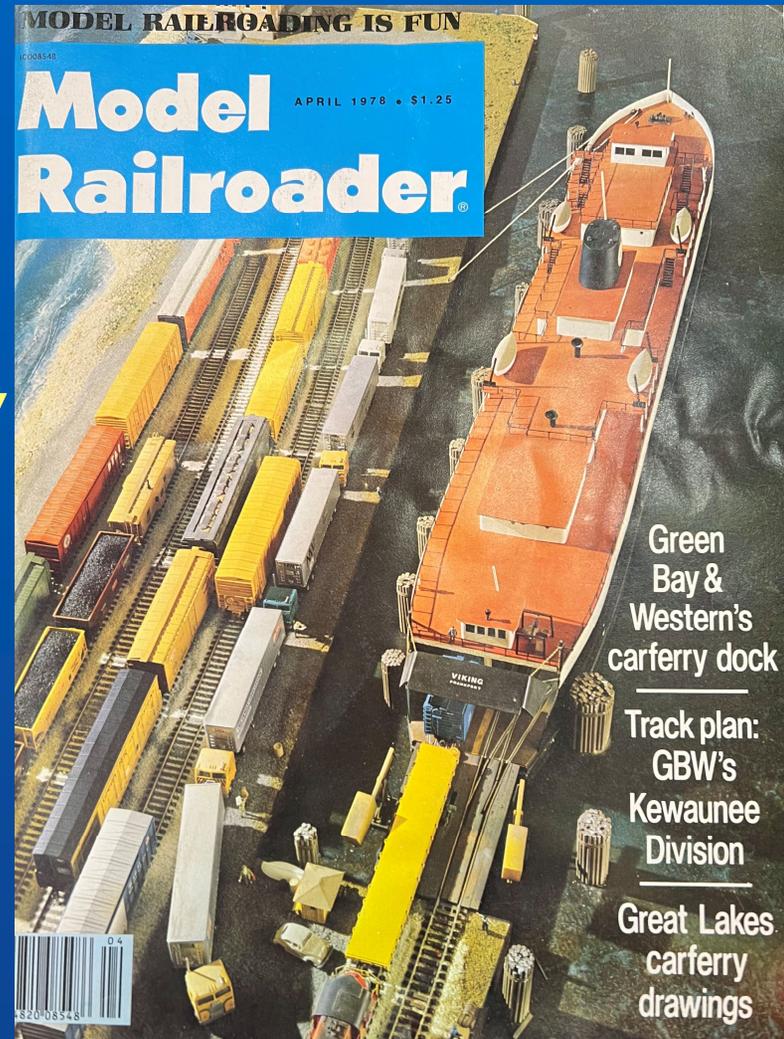
the rebuilding/upgrading of *Pere Marquette 22* that took place in 1954.

Upgrade

Great Lakes - Car Ferries

Modeling

Pat Lana - "Julie M"



SS Milwaukee



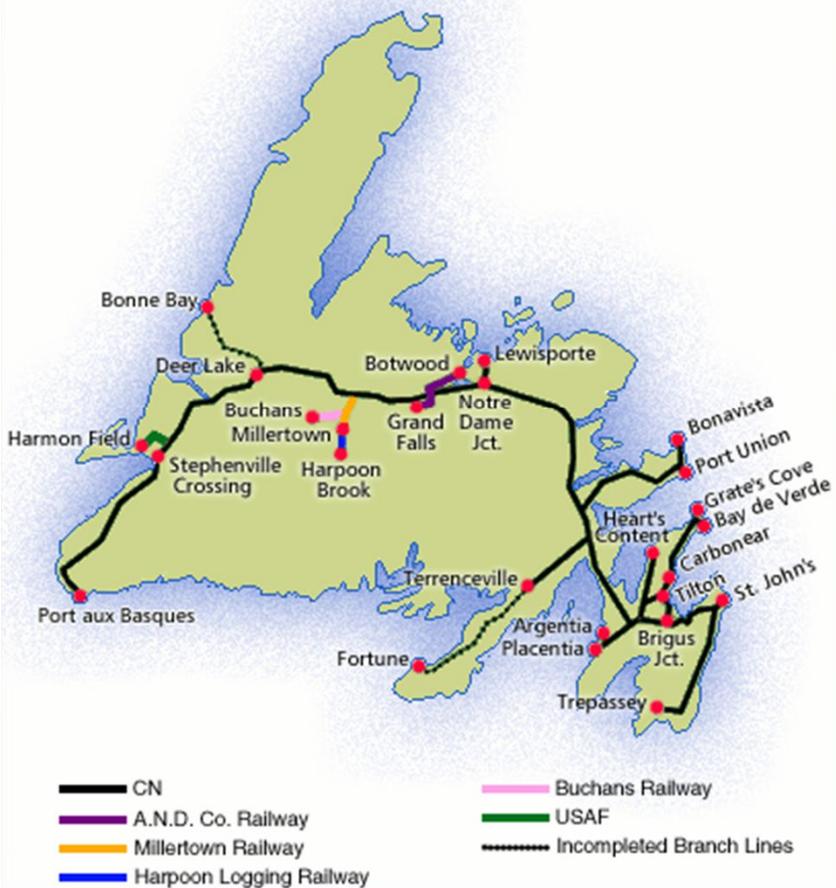


SS Milwaukee

This in N Scale!!

Canadian Maritime Nova Scotia For the narrow gaugers

Newfoundland Railway Mainline and Branch Lines



Canadian Maritime Nova Scotia

Truck switching



Iron Ore Loading/unloading



Hulett Unloader

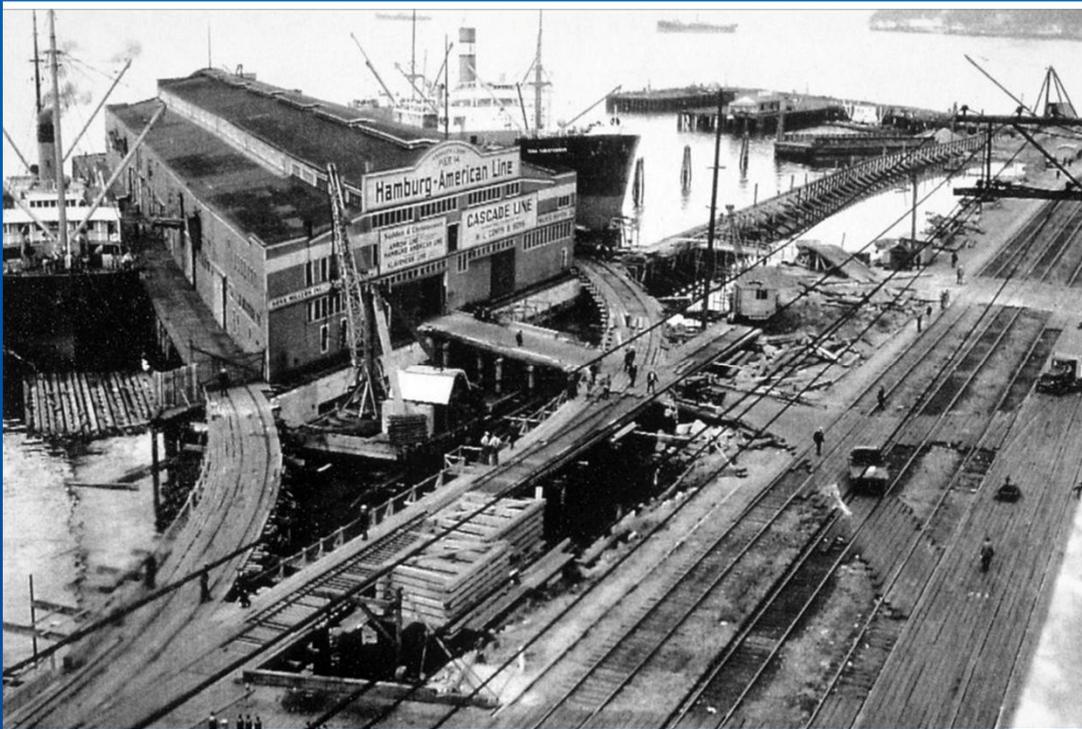
Model of Hulett Unloader



Marshall Hancock

"Go west, young man!"

Seattle



Pete Doty

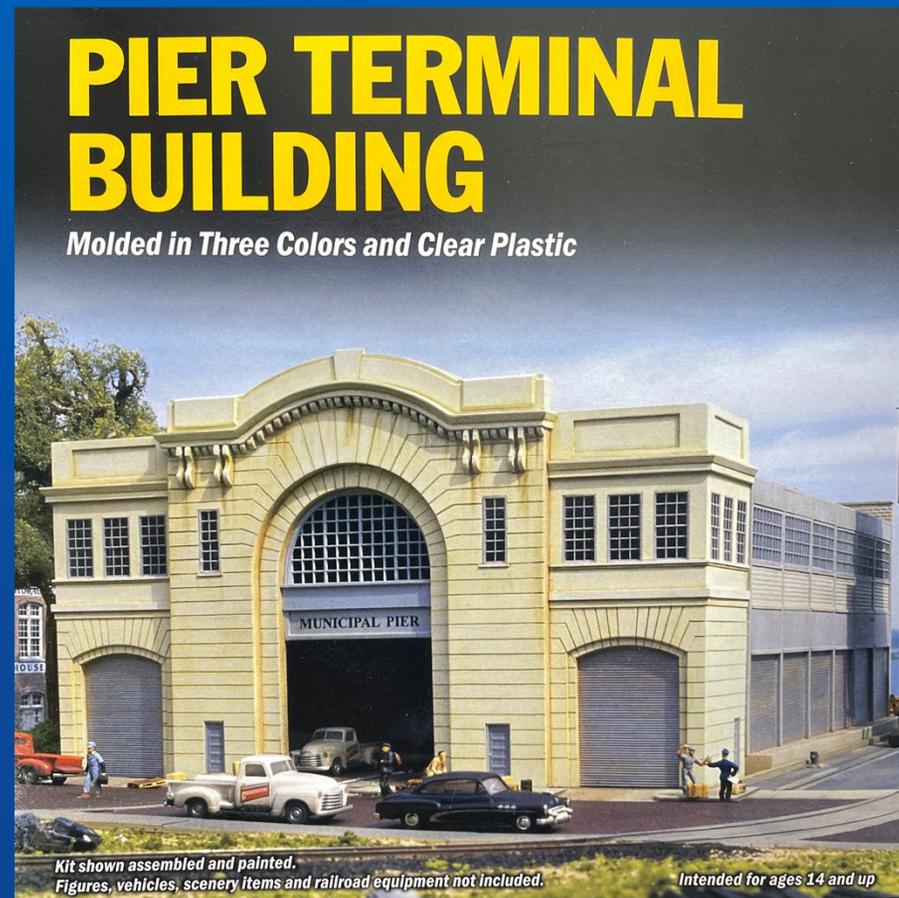
San Francisco - Embarcadero



Modeling Pier #35

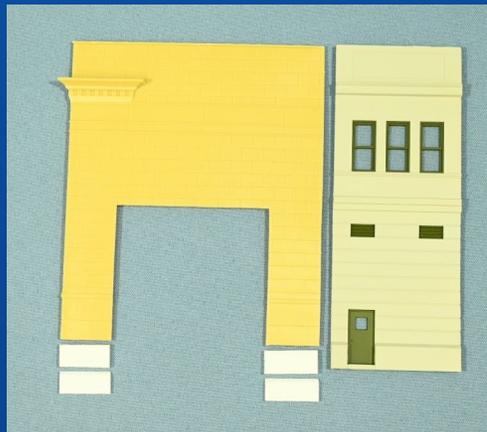
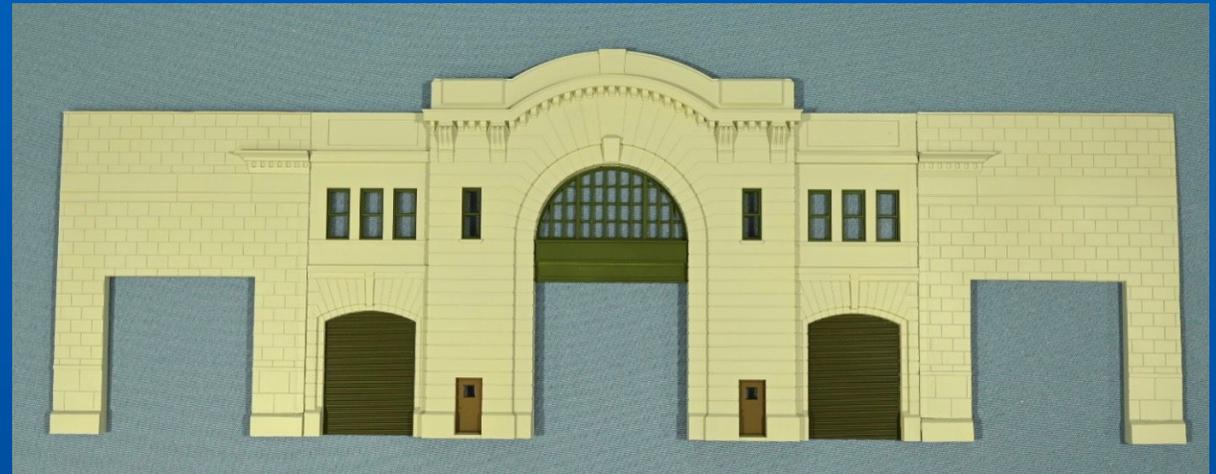
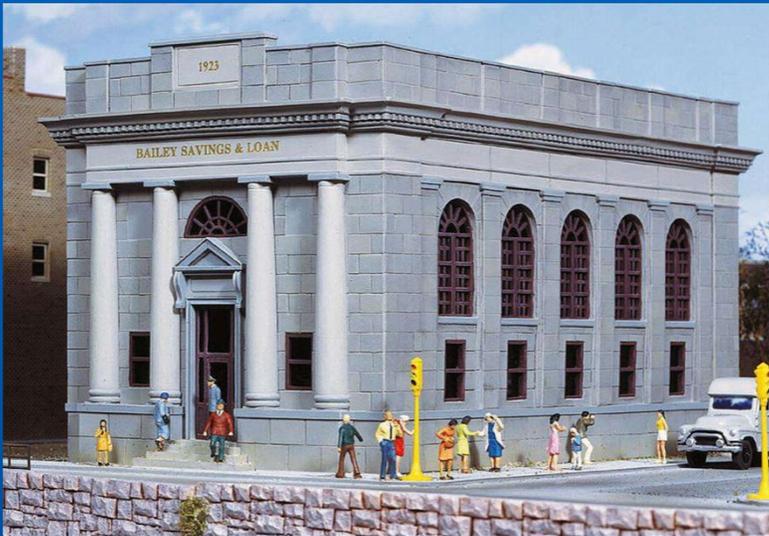


Modeling the Embarcadero The Bulkhead Building



Modeling the Embarcadero

The Bulkhead Building



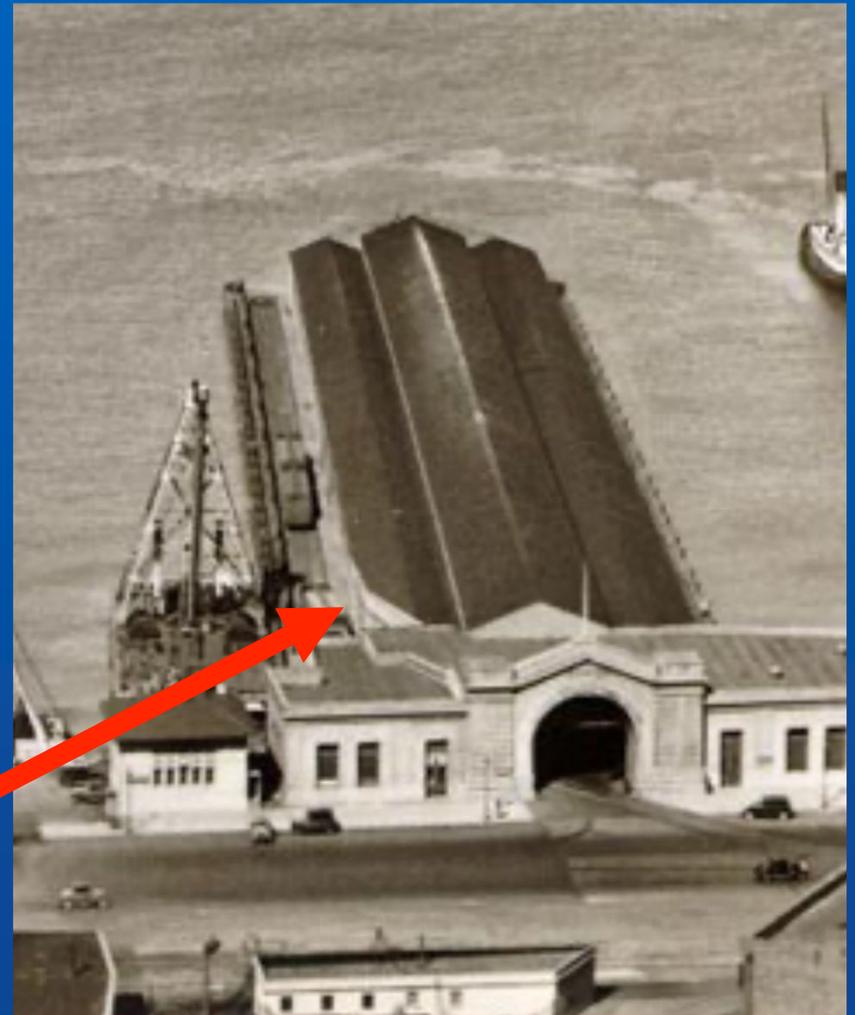
Modeling the Embarcadero

The Transit Shed



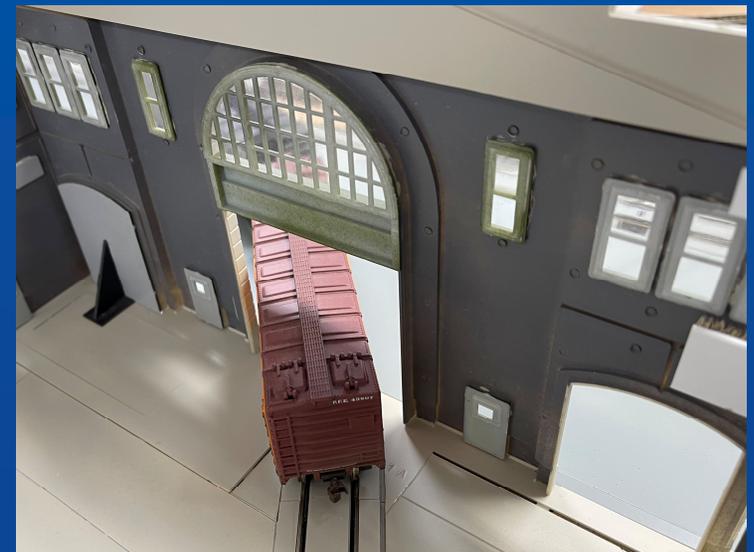
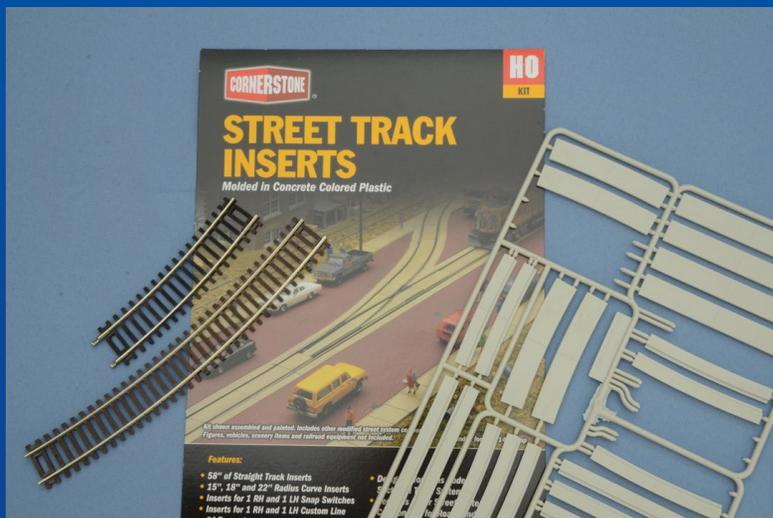
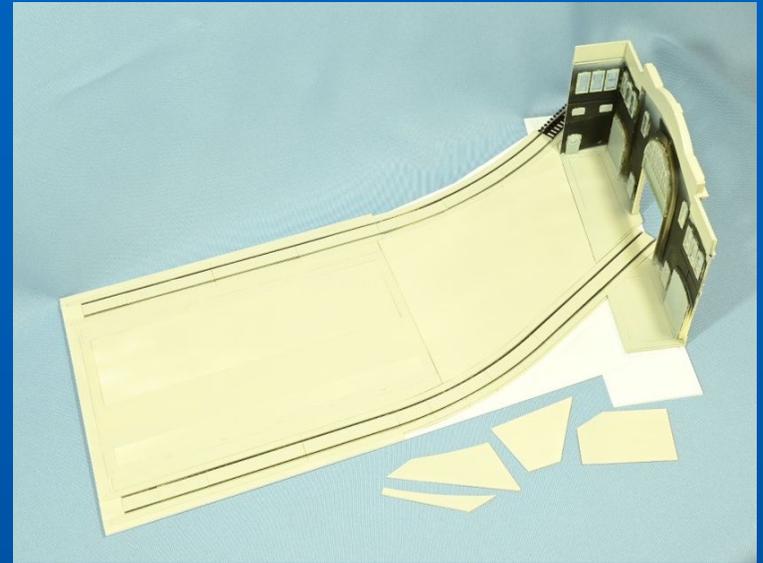
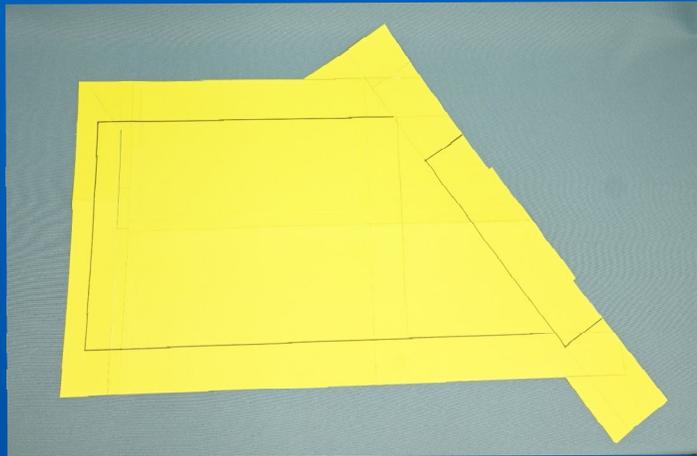
Modeling the Embarcadero

Rail: In to Out



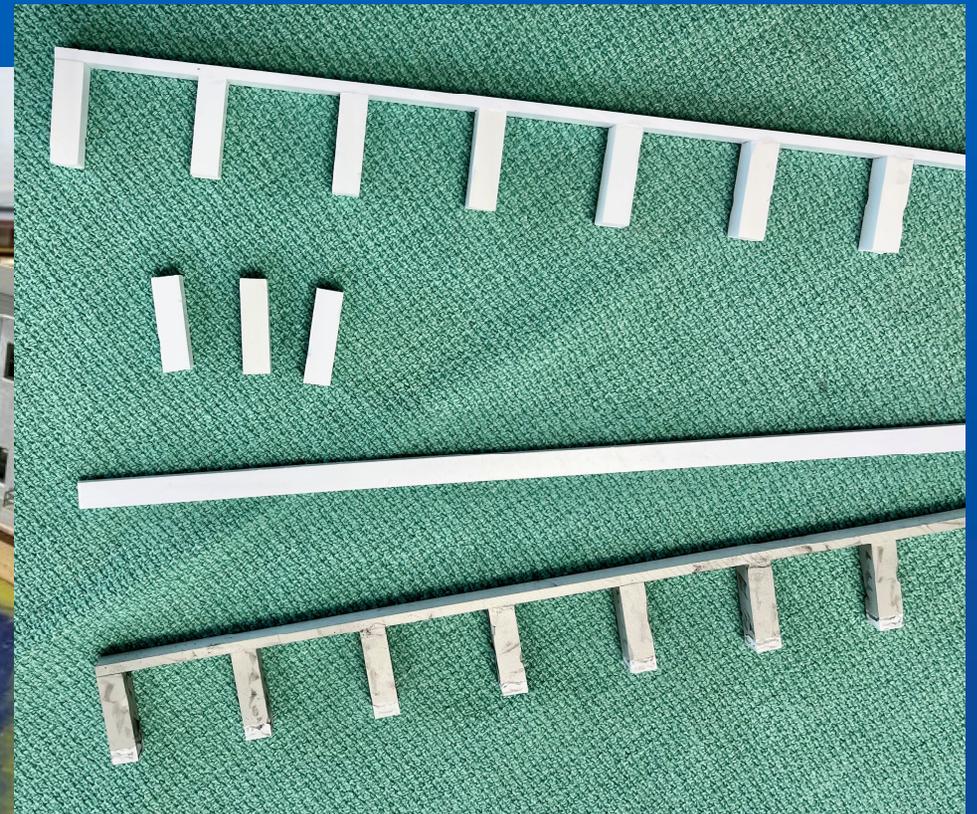
Modeling the Embarcadero

Foot print



Modeling the Embarcadero

The Pilings

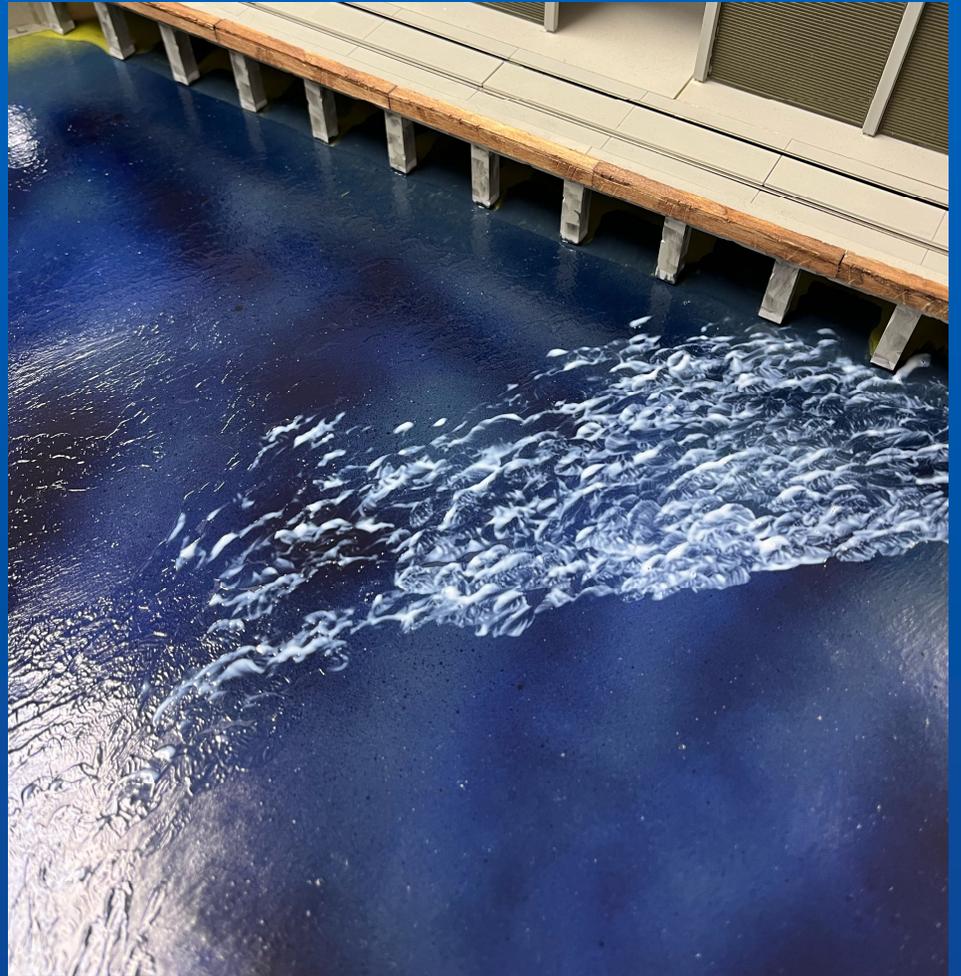


Modeling the Embarcadero

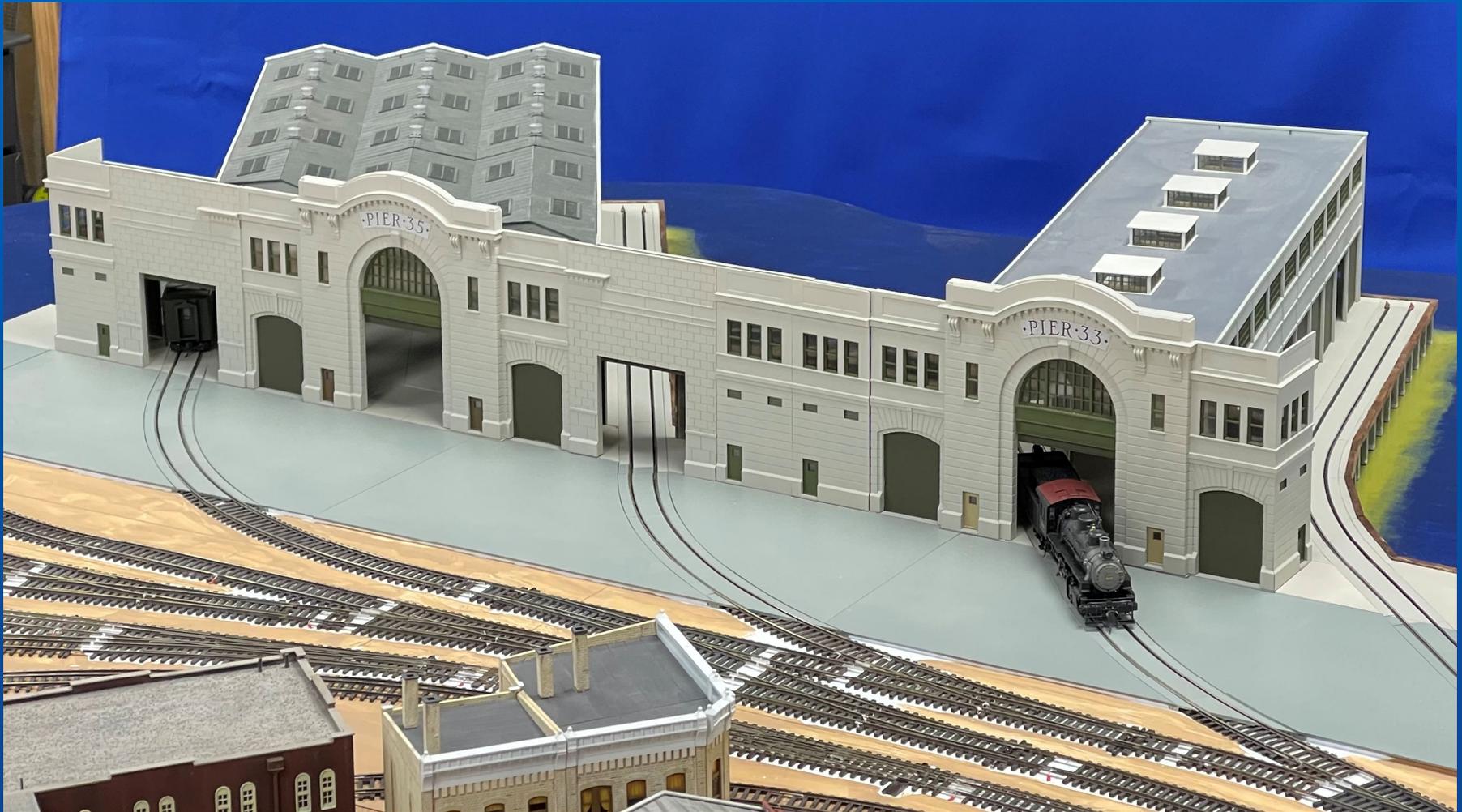
From the ocean side



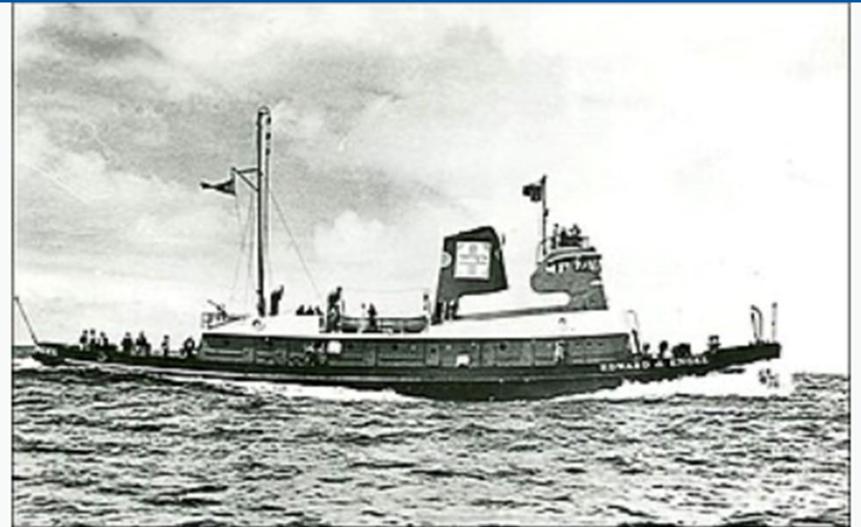
Modeling Water



Done at last!



Santa Fe Tugs



The *Edward J. Engel* just after she was built in 1945 undergoing her sea trials. Note the fire monitor astern.

ATSF China Basin



Model of China Basin



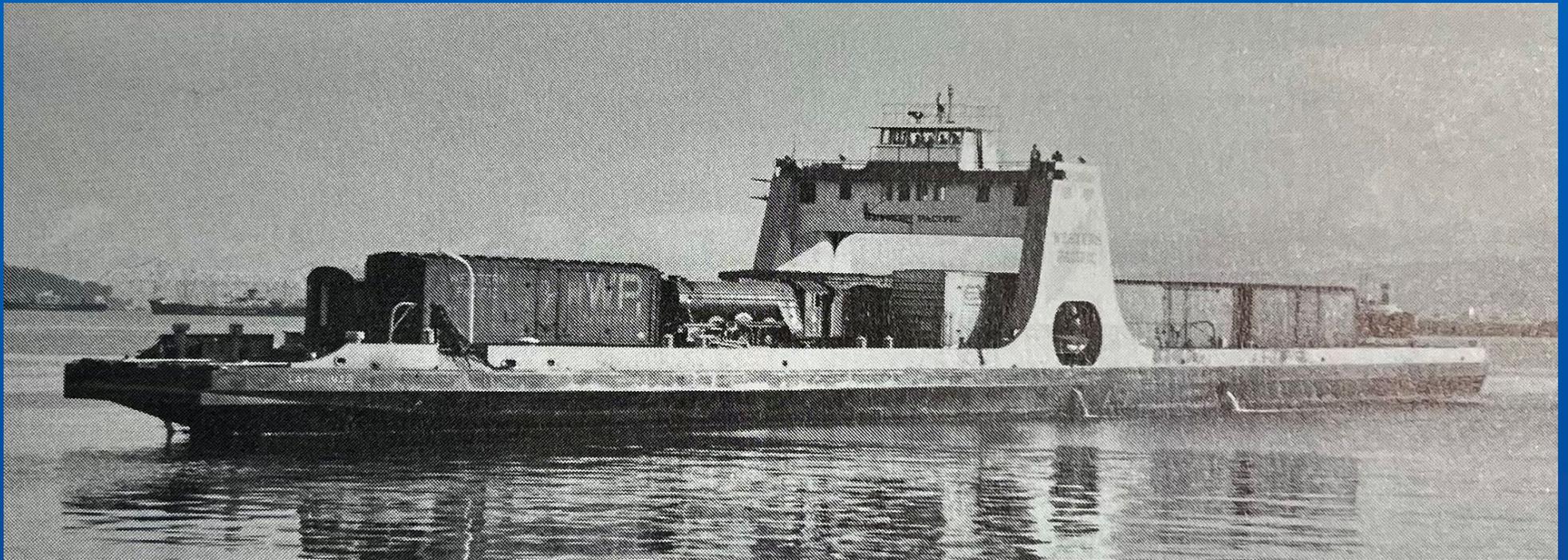
Western Pacific Pier 43



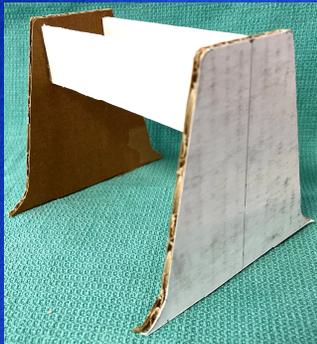
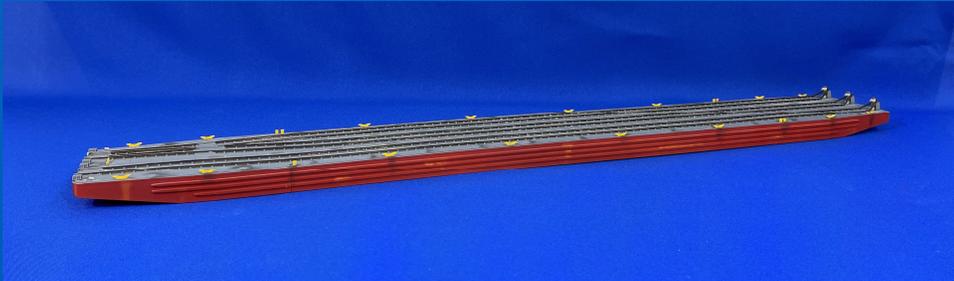
Model Pier 43



Western Pacific "Las Plumas"



Modeling the "Las Plumas"



Model docking operations



We ain't done yet!

Sea Train



Sea Train

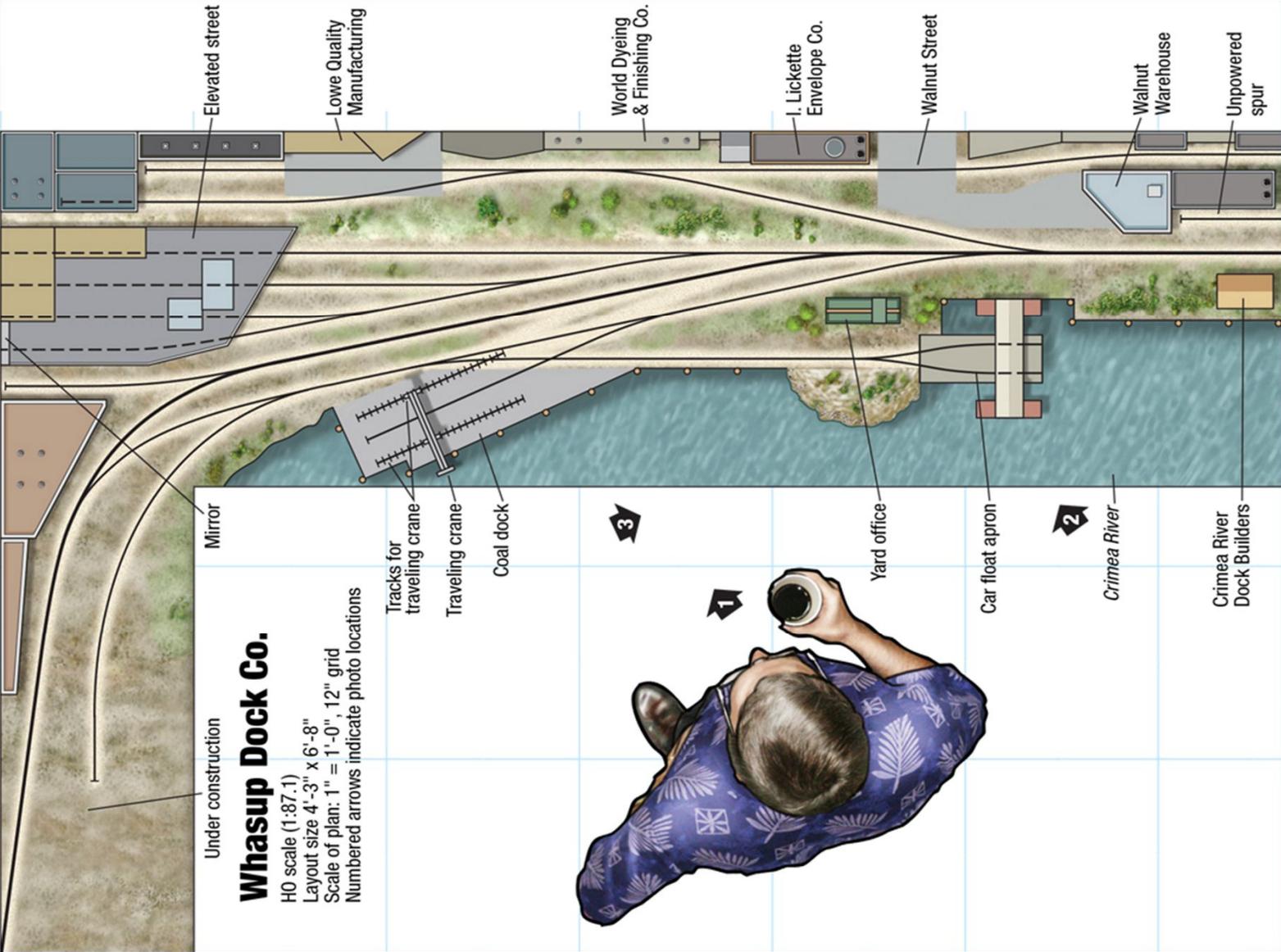


One final idea

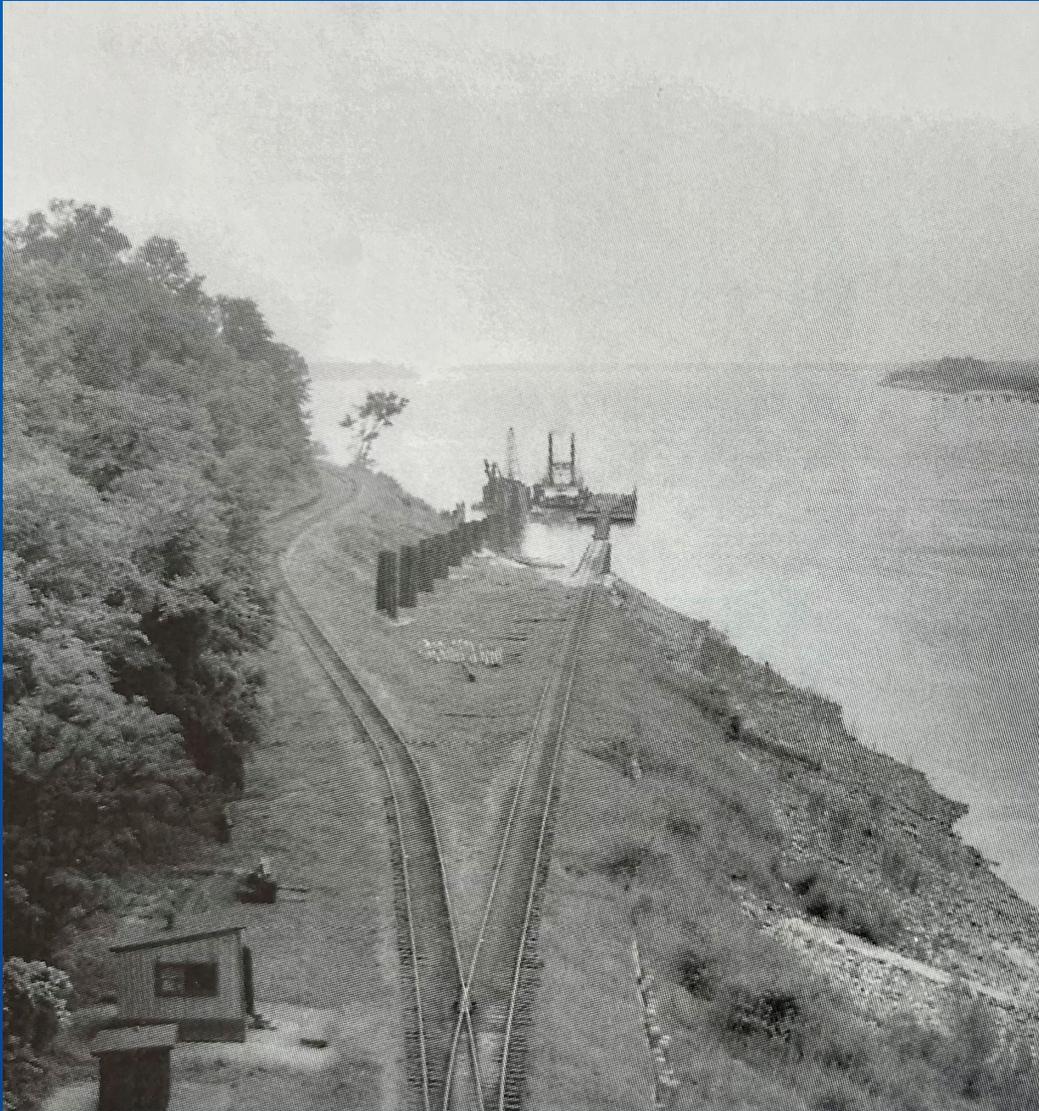
North to Alaska!



No room for maritime ?

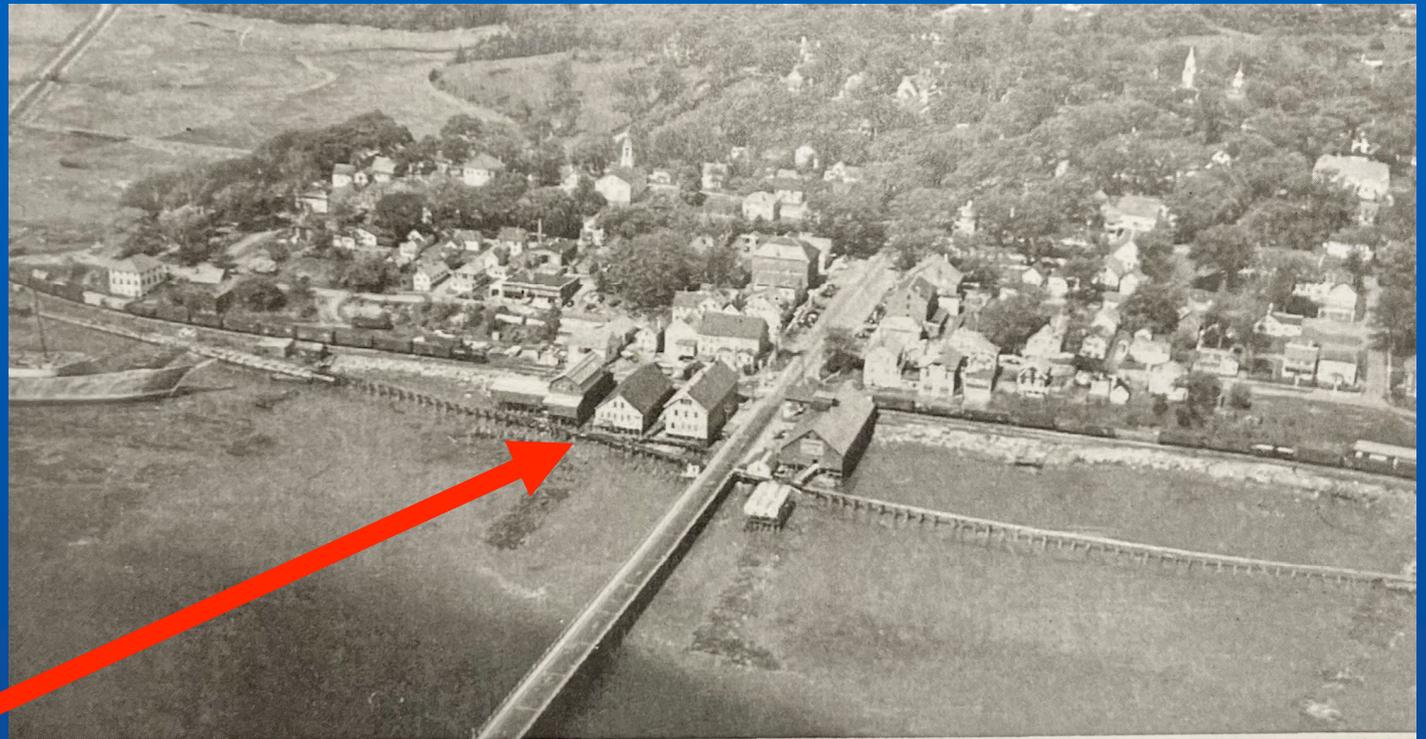
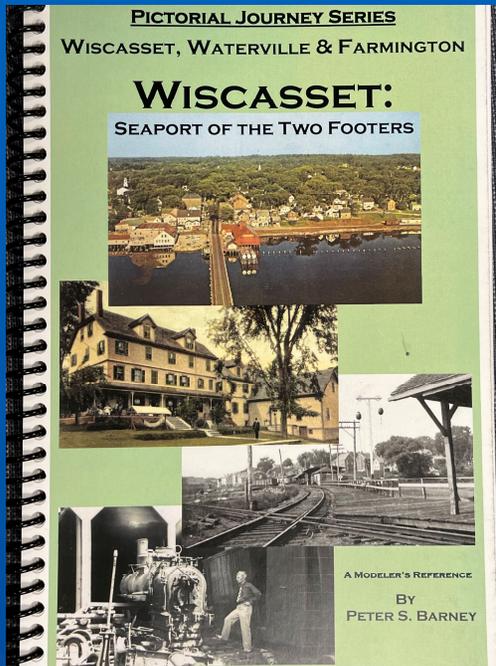


And how about this?



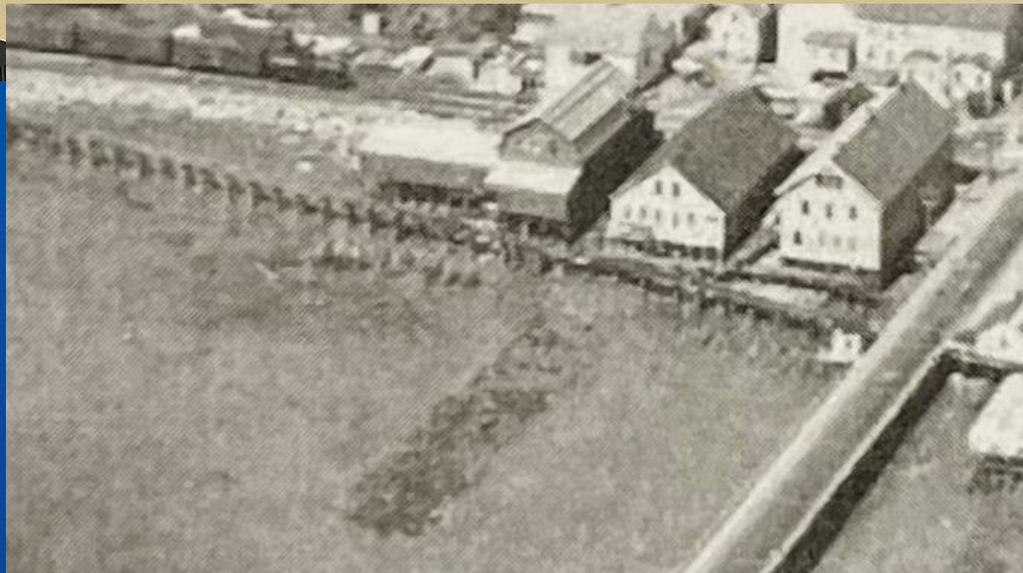
Carfloats, known as “transfers,” operated on many western rivers where bridges couldn’t be built. This small operation at Natchez, Mississippi, required steep grades and a switchback for trains to reach the dock, making it suitable for the edge of a layout or module. Steamboats were still used and a dredge is also moored here in June, 1948. Photo by C.W. Witbeck, collection of James Fair, courtesy of Louis Saillard.

Local premier layout begs for railroad maritime



Aerial View of Wiscasset taken about 1937 at low tide reveals the locations of nineteenth century piers where the mud had gathered around the old pilings and left fingers jutting into the harbor. The WW&F trestle still has the track on top of the stringers. The addition between the two buildings of the Wiscasset Lumber company has yet to be built, and the Turner Centre Dairy Building is still standing. Standard gauge freight cars line the Maine Central track on both sides of the bridge. The two schooners are marooned on the mud flat near the WW&F pier, both have begun to lose their masts and rigging.

Where's my HOn2 track gang ?

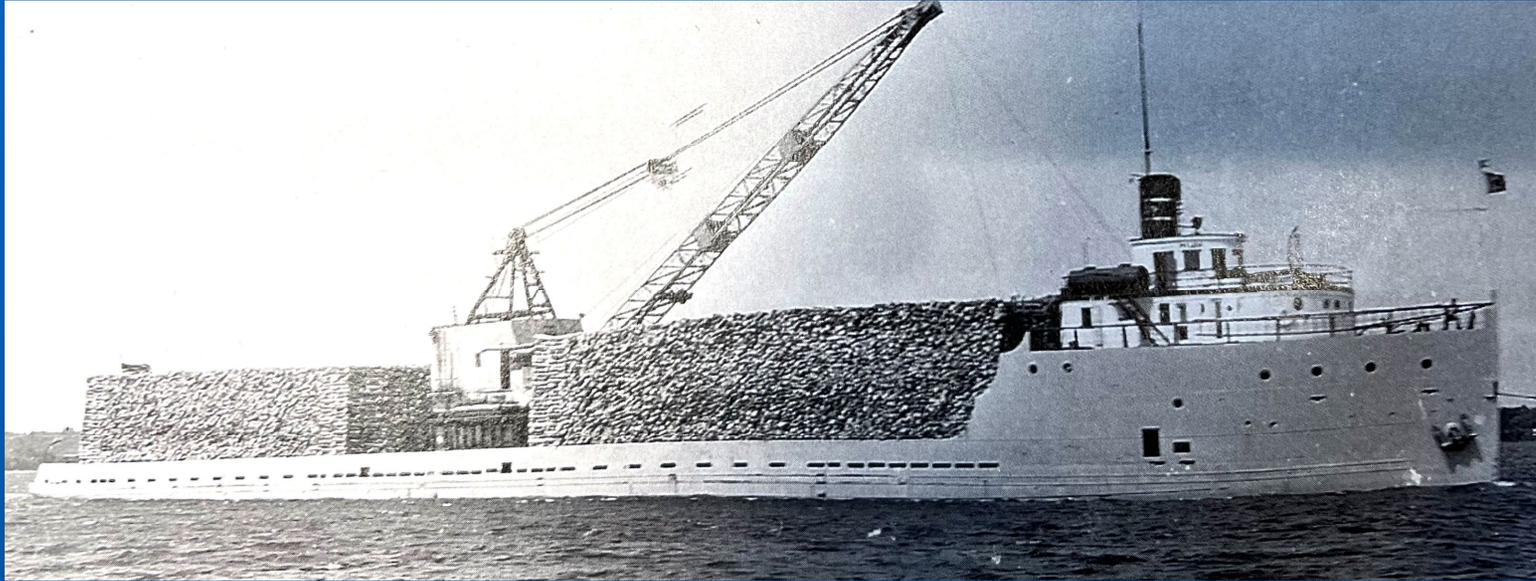


No rail necessary



Vashon Island, WA

All good things end



It can't last forever

Sea train - early container



Sylvan model



It wasn't just containers

Deindustrialization

Blue collar to white collar

Rust belt

Increase labor costs

Trucks

The rest is history

In summary

Expanded railroad knowledge
Offered some modeling ideas
Suggested an extension
of your operations

Thank You!

For your kind attention

and the privilege of your time





San Francisco - Embarcadero

Early history



San Francisco harbor in 1850 or 1851. During this time, the harbor would become so crowded that ships often had to wait days before unloading their passengers and goods.^[17]

[More c](#)



Those beautiful tugs

NYC



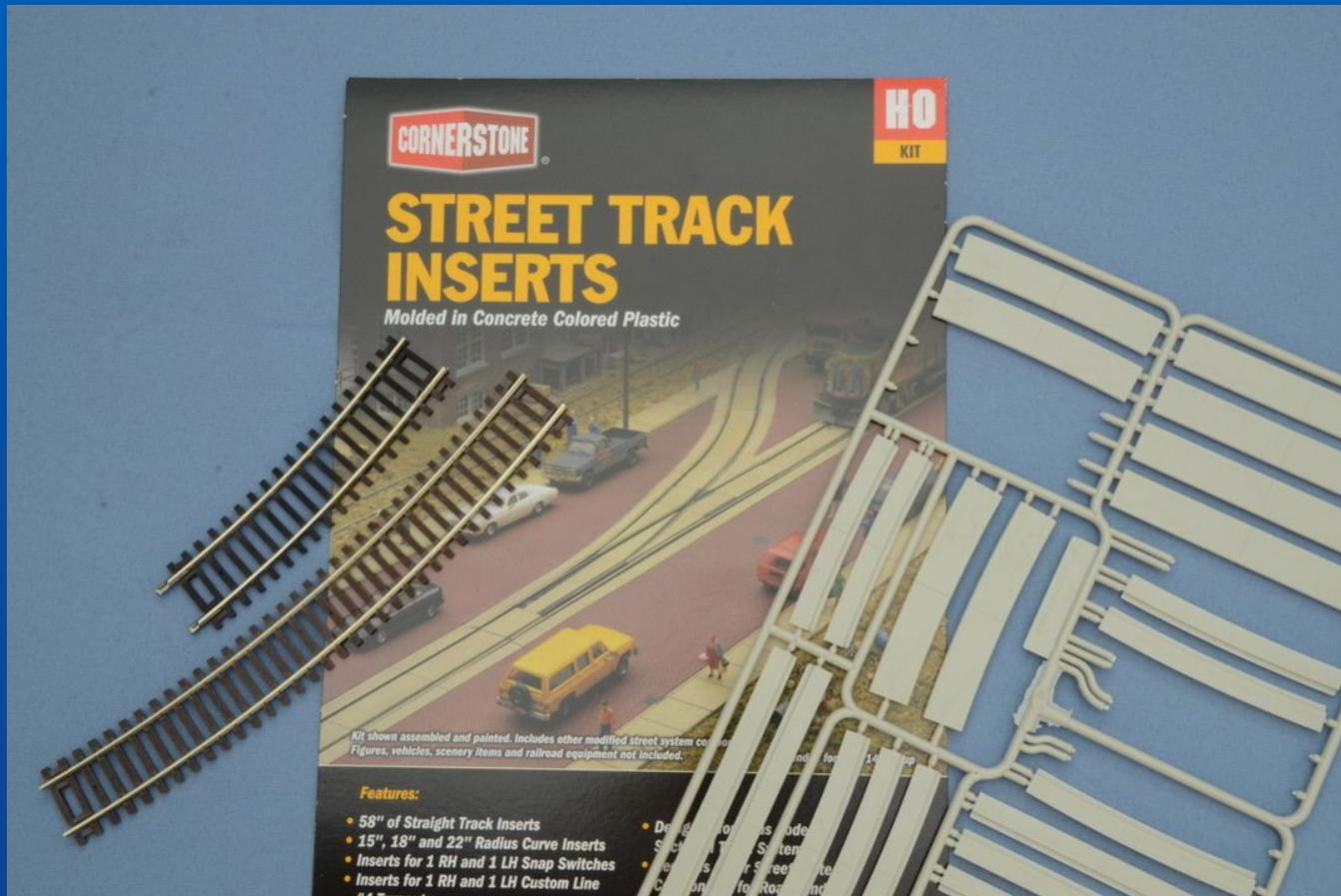
Loading/Unloading Ships

Open barge
(Scow)

Covered barge

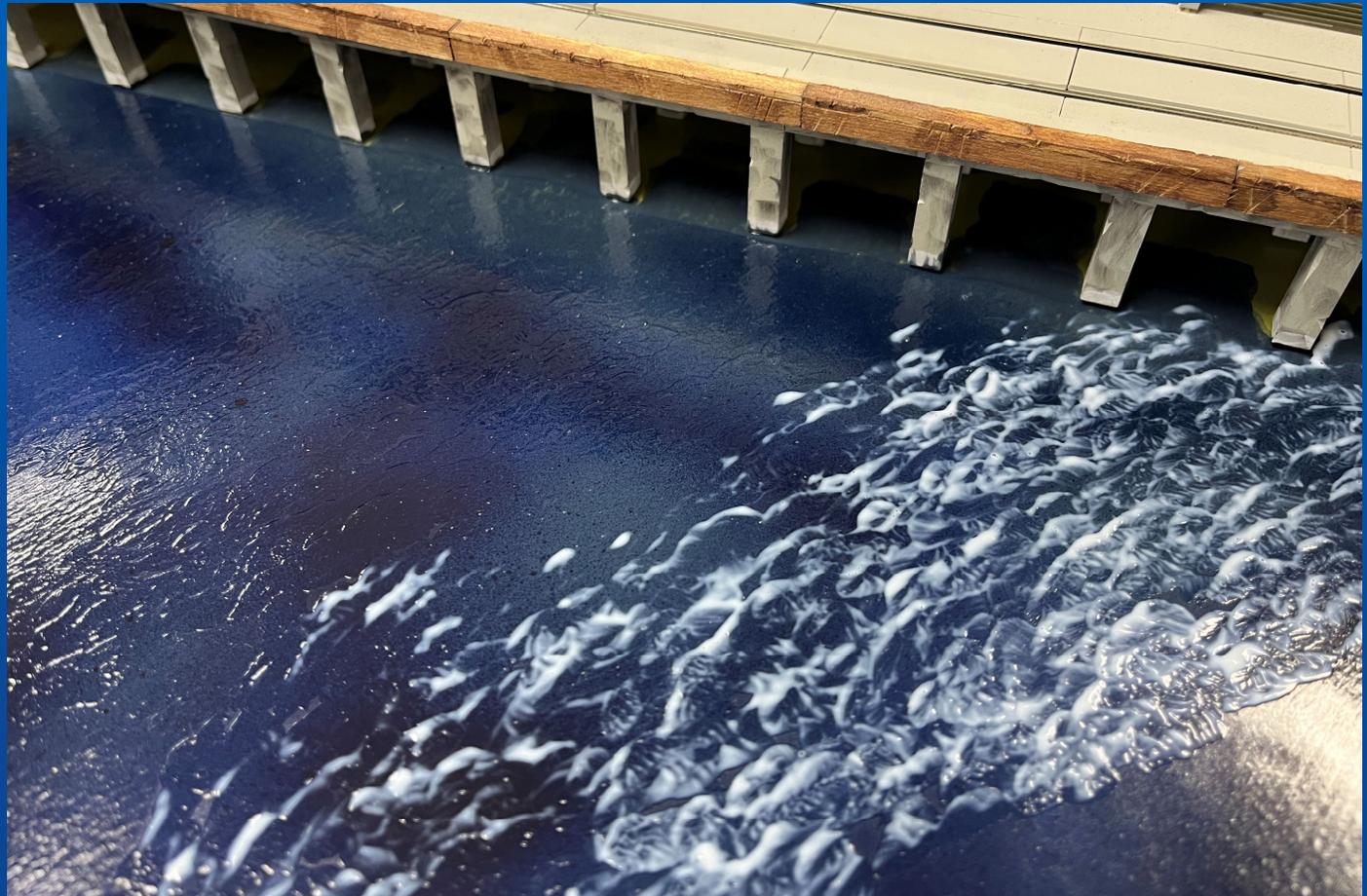
Modeling the Embarcadero

Walthers' track inserts



Modeling the Embarcadero

The Water



The Great Lakes

Let's Super Size It



Iced in three months of the year

San Francisco - Embarcadero California takes control



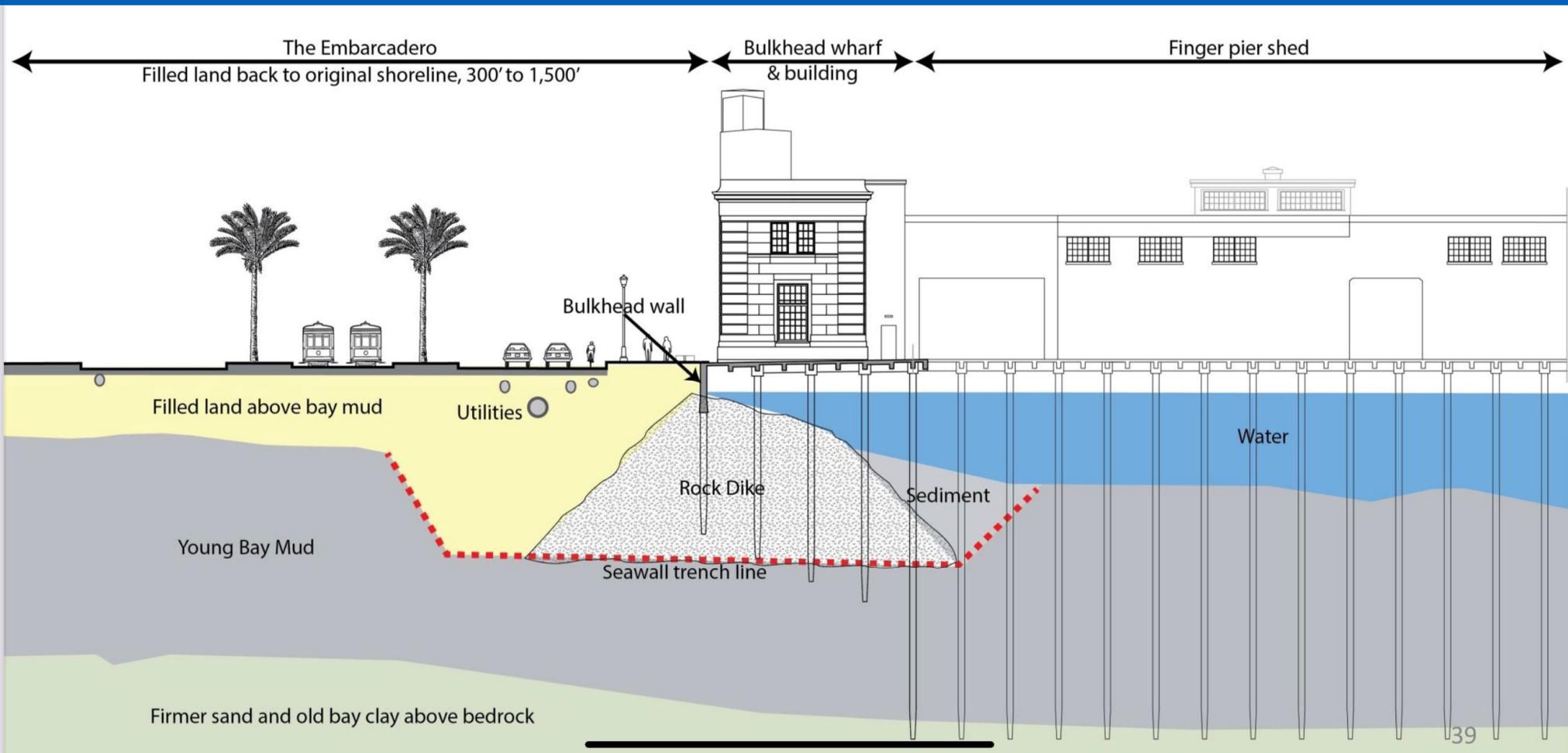
Narrow Gauge on the Embarcadero



NO. 10.

EAST STREET, SHOWING BELT LINE R.R. AND SHIPPING. MAY 11, 1906.

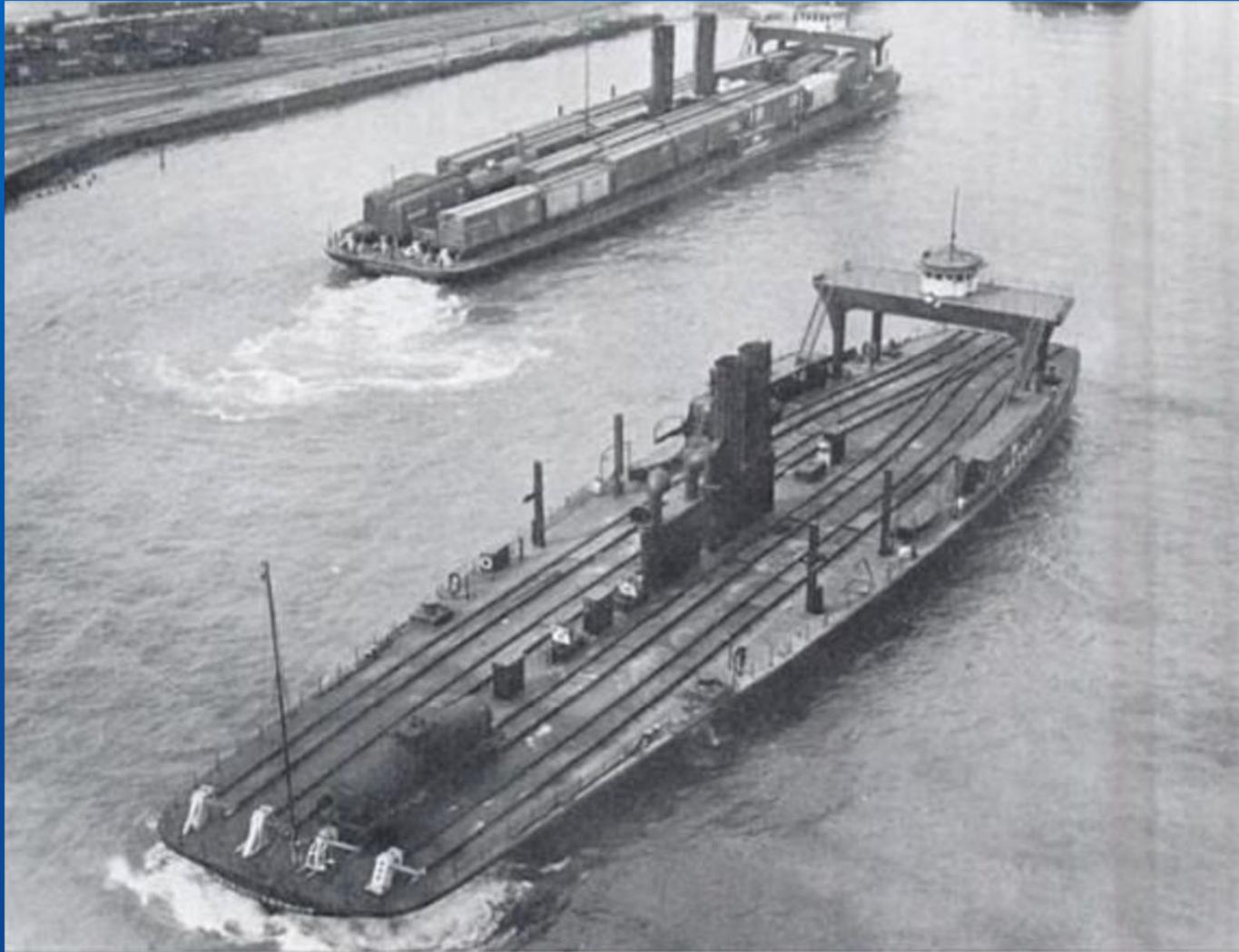
Modeling the Embarcadero



Narrow gauge On The Embarcadero



Detroit



The ferry Detroit prior to being converted to barge.

Northwestern Pacific Barge (Narrow gauge)



San Francisco - Embarcadero

Early history



San Francisco harbor in 1850 or 1851. During this time, the harbor would become so crowded that ships often had to wait days before unloading their passengers and goods.^[17]

 More content

Meanwhile, back to history

Railroad politics (1900-1920)



Southern Pacific Railroad depicted as a greedy octopus, in an 1882 political cartoon.



Car Ferries (not generic)





Model docking operations



Float mobility on layout



San Francisco - Embarcadero

The Railroad Navies

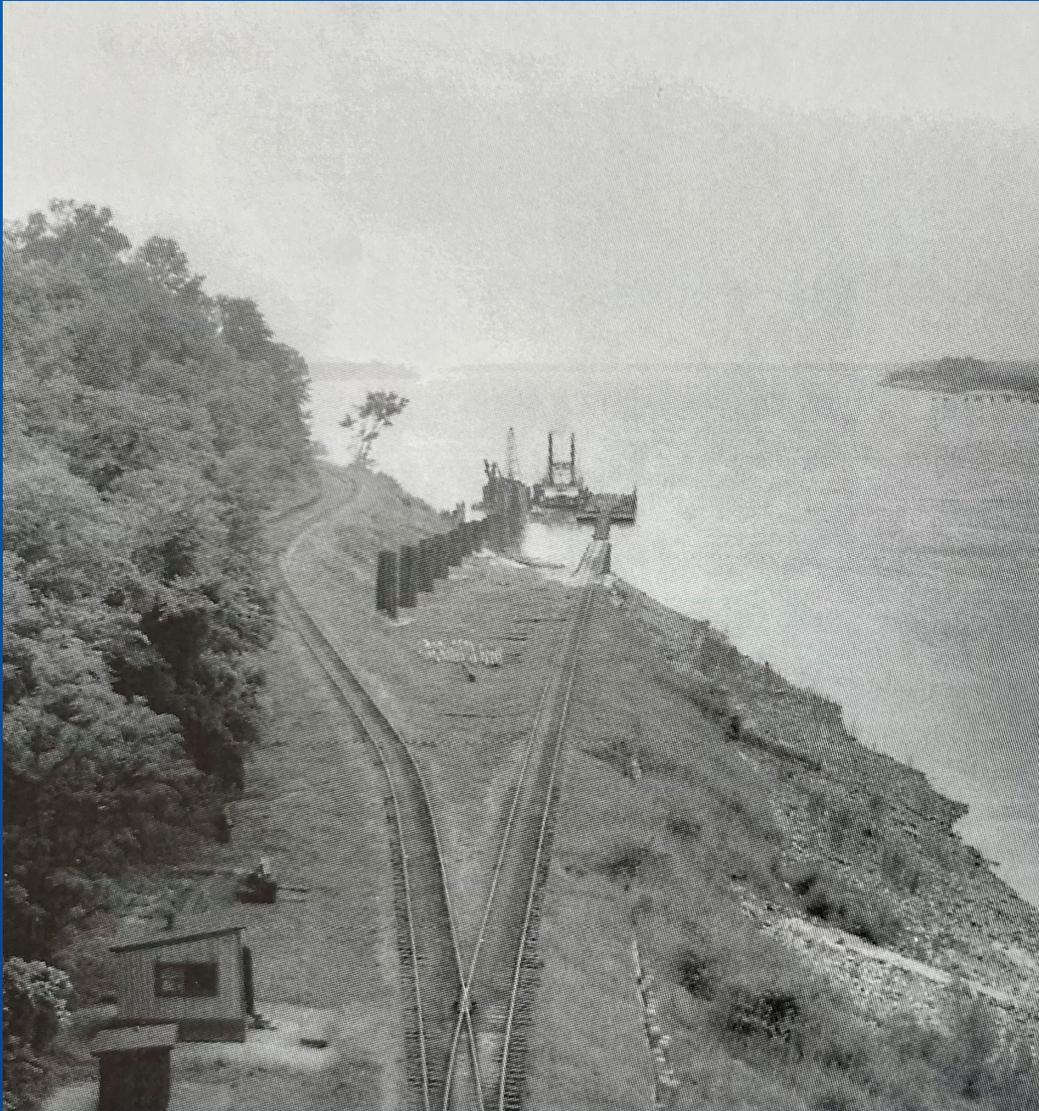
Southern Pacific

Northwestern Pacific

ATSF

Western Pacific

It wasn't just river size



Carfloats, known as "transfers," operated on many western rivers where bridges couldn't be built. This small operation at Natchez, Mississippi, required steep grades and a switchback for trains to reach the dock, making it suitable for the edge of a layout or module. Steamboats were still used and a dredge is also moored here in June, 1948. Photo by C.W. Witbeck, collection of James Fair, courtesy of Louis Saillard.



Vashon Island, WA

Let's get started

Generic elements (can't ID location)

New York Harbor

River crossings

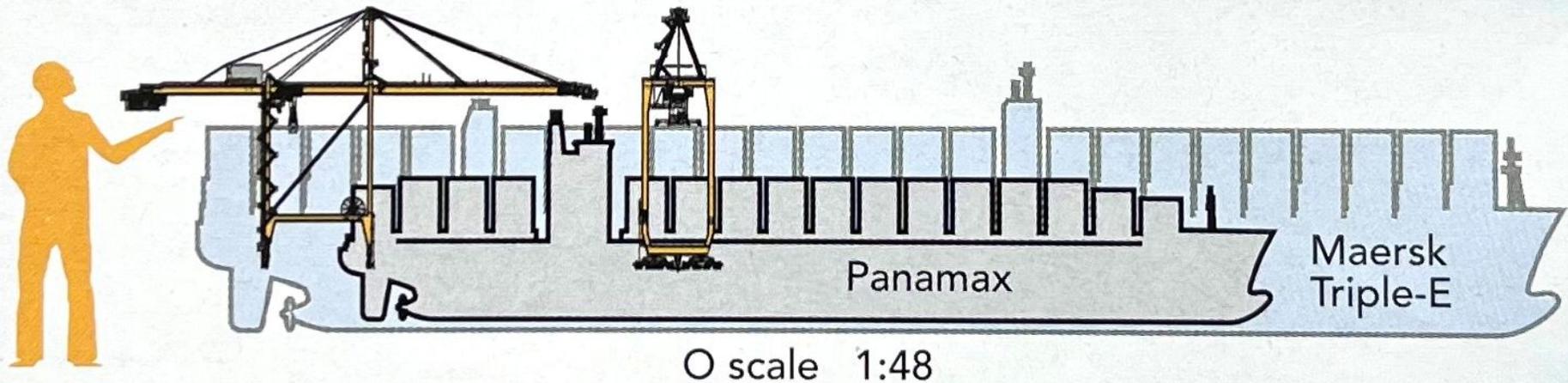
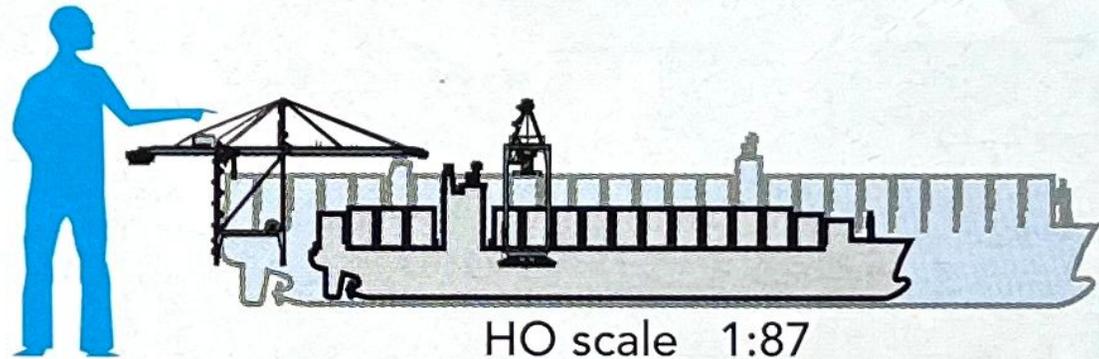
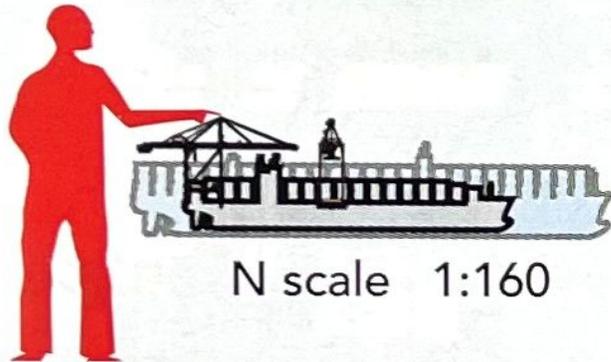
Great Lakes

Seattle

San Francisco

Modeling concurrently

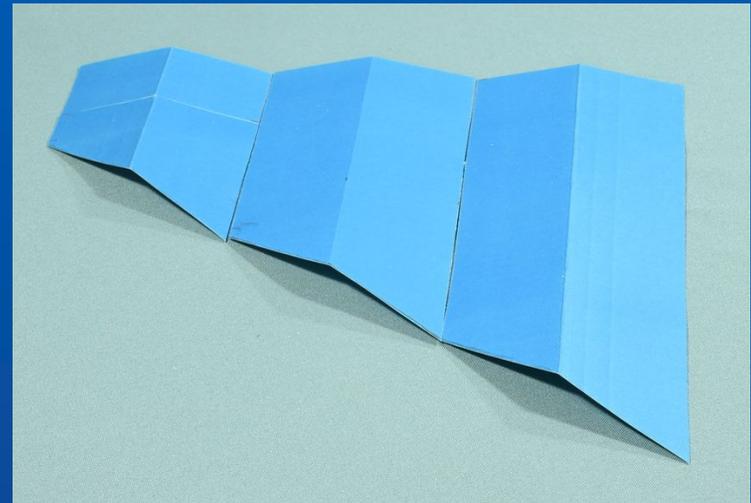
Modeling Problem



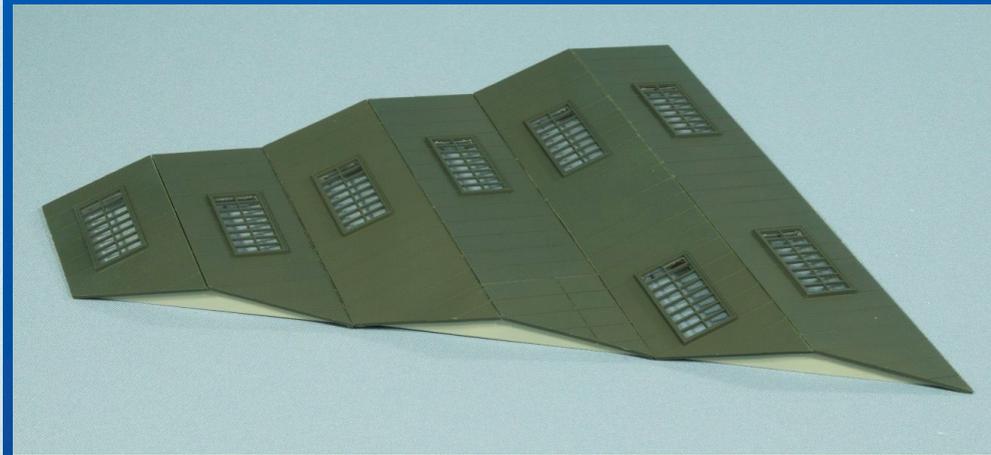
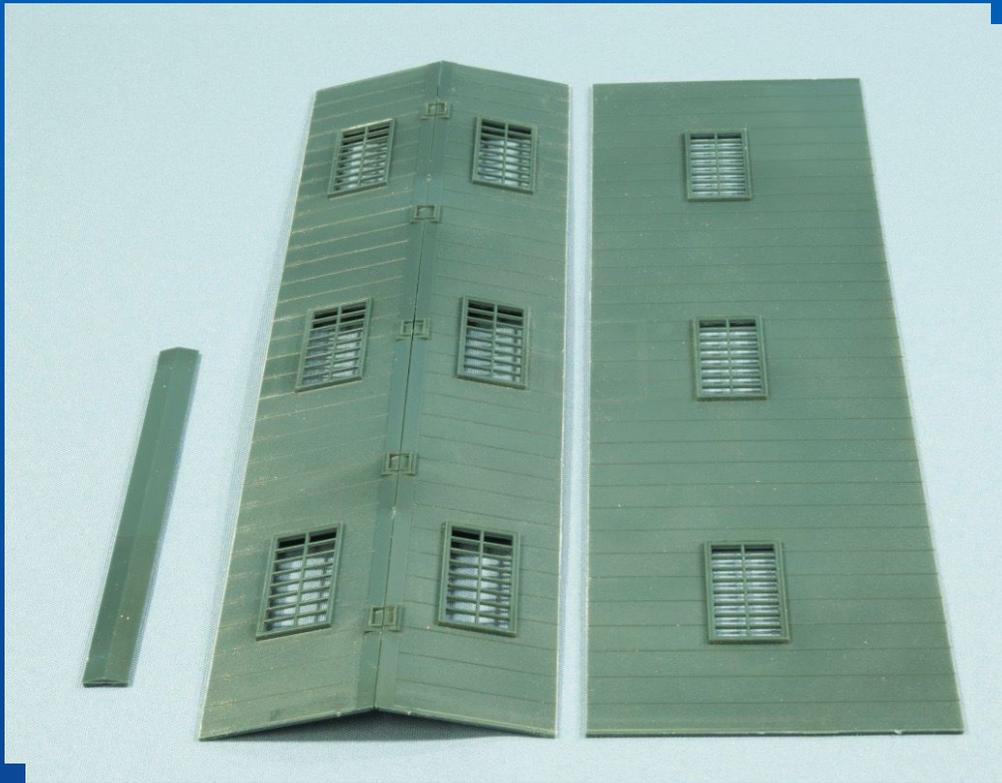
Feet 7
Meters 2

Modeling the Embarcadero

The Roof



Modeling the Embarcadero Roof



Modeling the Embarcadero

Rear Wall

