

The Next Generation

Of Automated Dry Stack Storage Systems



Ft. Lauderdale, FL

Presentation Outline

I. INTRODUCTION

II. TRADITIONAL FORKLIFT DRYSTACK SYSTEMS

III. AUTOMATED DRY STACK SYSTEMS OVERVIEW

IV. AUTOMATED LAUNCHING & HANDLING SYSTEMS

- Stacker Crane System – ASAR & DOCKIT
- Fixed Crane System / Coastal Elevators
- Cable Overhead Crane Systems
- AGV Robotic Systems

V. BUILDING LAYOUT OPTIONS

VI. DRY STACK MARINA BUDGETS

VII. BRINGING THE NEXT GENERATION TO YOU



Edgewater Group

Specialty Marina Planning/Design/Engineering Firm

- CIVIL / MARINA / ENVIRONMENTAL / COASTAL ENGINEERING / HYDROGRAPHIC SURVEYING
- GEOTECHNICAL / STRUCTURAL / COMPUTER & PHYSICAL MODELING / OCEAN ENGINEERING
- PLANNING / LANDSCAPE ARCHITECTURE / COMMUNITY OUTREACH / PERMITTING
- MARKET ANALYSIS / FINANCIAL / ECONOMIC SPECIALISTS



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II. Traditional Forklift Dry Stack Systems



HAMILTON HARBOR YACHT CLUB
Naples, FL USA



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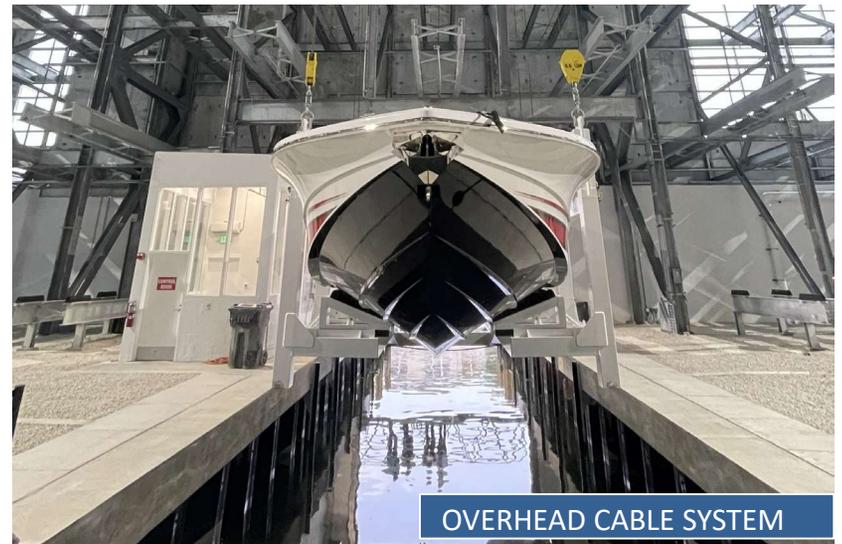
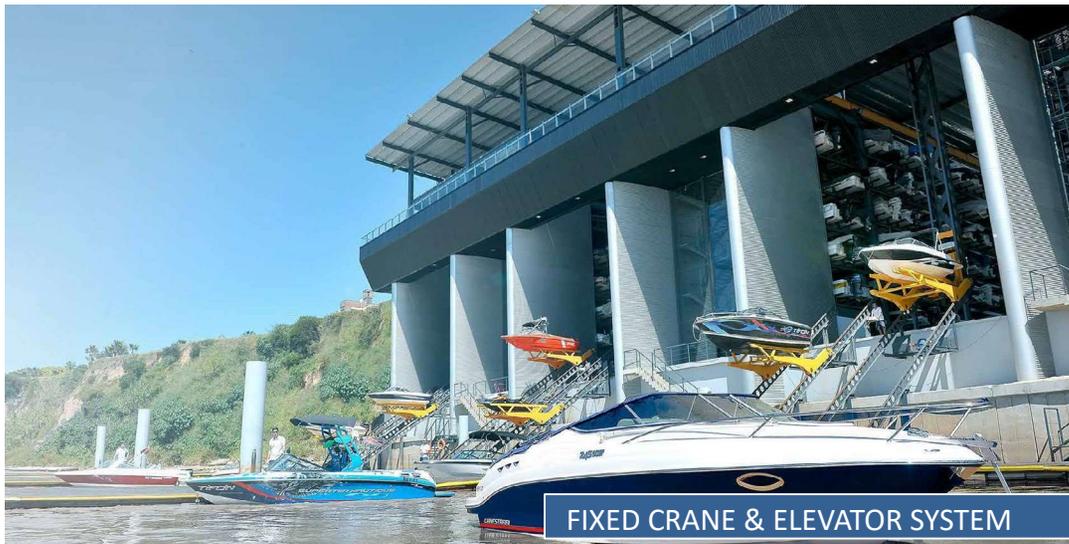
III. Automated Dry Stack Systems

MAINTAIN PUBLIC WALKWAY BENEATH LAUNCH AREA



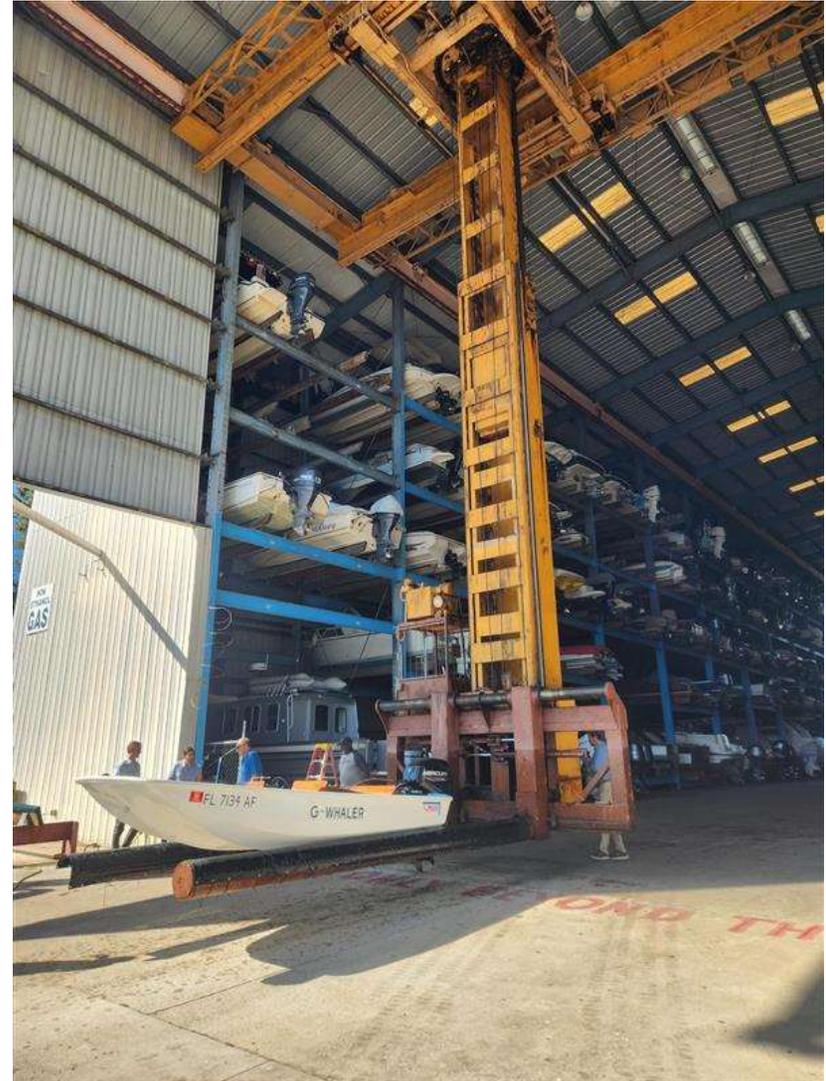
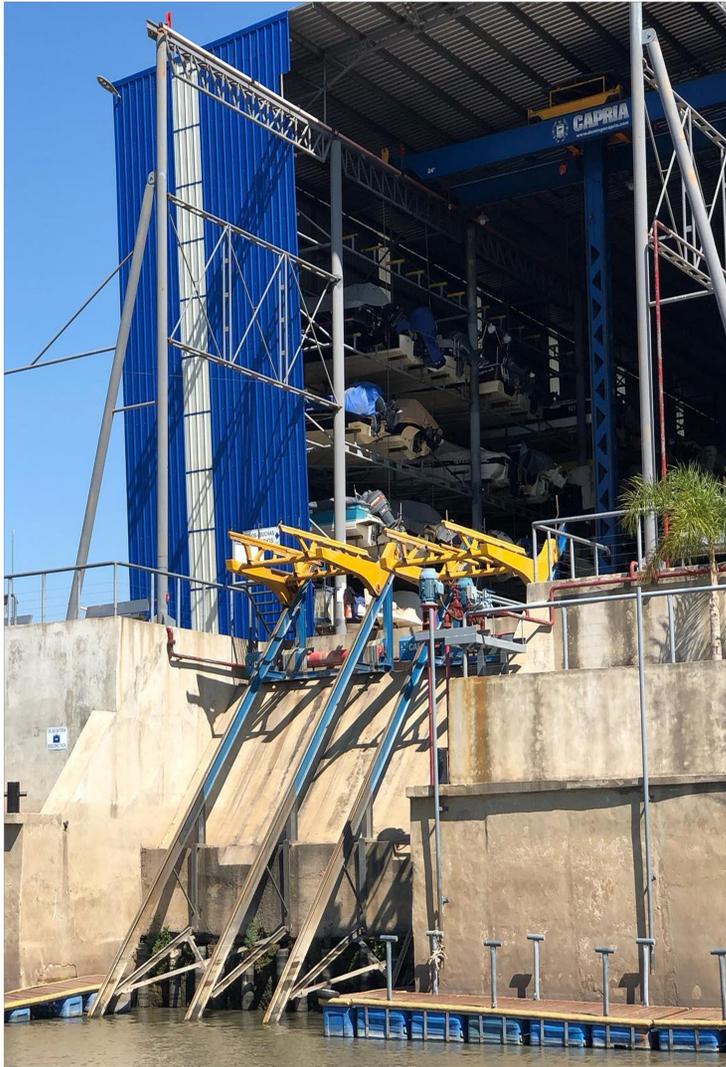
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IV. Automated Handling & Launching Systems



Fixed Crane System/Coastal Elevators

Floor Mounted Crane



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Fixed Crane System/Coastal Elevators



Cable Overhead Crane System



F3 MARINA, FORT LAUDERDALE – 240 BOATS – 2021

Cable Overhead Crane System

THE PORT MARINA
FORT LAUDERDALE



THE PORT MARINA, FORT LAUDERDALE – 150 BOATS – 2005

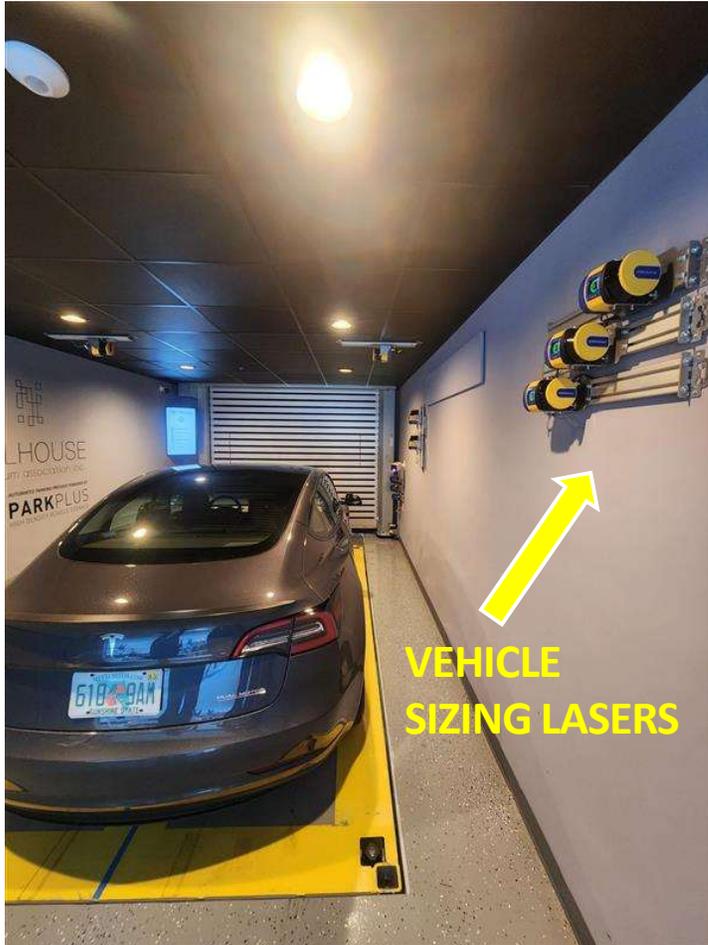
Cable Overhead Crane System

Port Marina, Ft. Lauderdale



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Future Marina AGV Robotic Systems



Park Plus

Future Marina AGV Robotic Systems



AUTO Park It



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VI. Dry Stack Marina Budget

	COST PER BOAT	COMMENTS	
I. TRADITIONAL FORKLIFT BUILDING	\$25k - \$50K	N.I.C - FORKLIFT / SEAWALLS / QUEUE DOCKS/ APRON (CONC. APRON \$1-3M)	
II. ASAR STACKER BUILDING	\$50K - \$100K+	N.I.C SEAWALLS / QUEUE DOCKS	★
III. BRIDGE CRANE SYSTEM	\$35K - \$60K	INCLUDES CRANE N.I.C. - SEAWALLS / QUEUE DOCKS	
IV. OVERHEAD CABLE SYSTEM	\$75K - \$125K +	INCLUDES CRANE, INTERNAL LIFT WELL AND QUEUE DOCKS	
V. AUTOMATED GUIDED VEHICLE TRANSPORT	\$80K - \$110K+	CAN HANDLE COMPLEX BUILDING DESIGNS/DENSITY	★



VII. Bringing the Next Generation to You

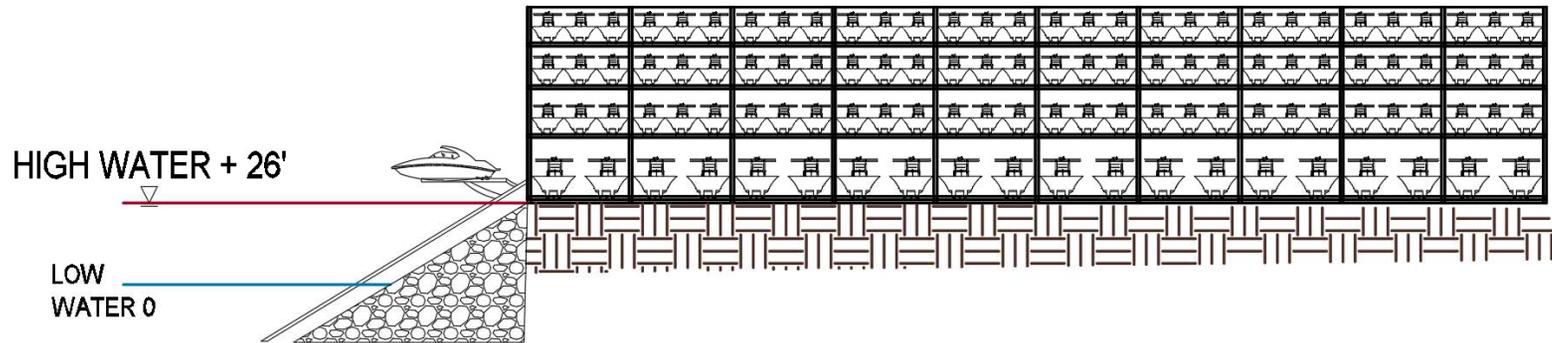
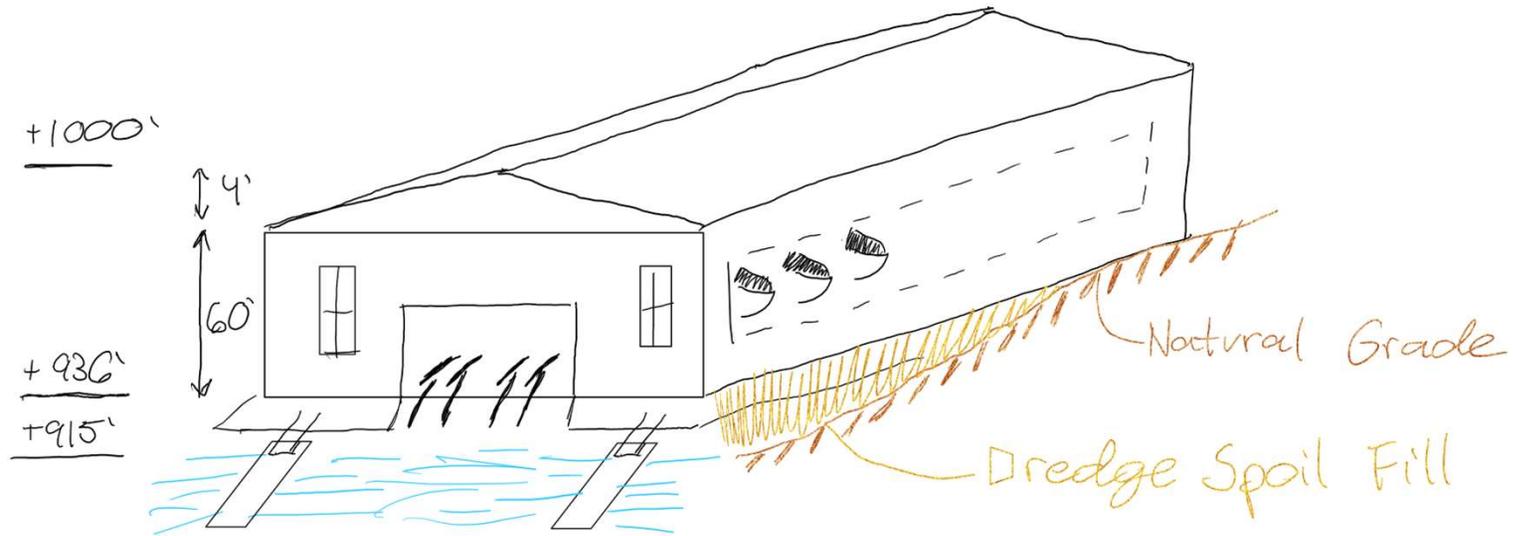


Table Rock Lake
Shell Knob, Missouri



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VII. Bringing the Next Generation to You



VII. Bringing the Next Generation to You



St. George Island
Franklin Co. FL



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VII. Bringing the Next Generation to You



St. George Island
Franklin Co. FL



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QUESTIONS?



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