

2018 Port Everglades Master/Vision Plan Update

Combined Charrette

May 1, 2019



Issues and Opportunities – Overall

- Ability to add berths/acres very limited
 - Prioritization of berth/land use against different criteria required
 - More volume on same footprint required
 - Liquid bulk: steady as she goes; LNG a near-/mid-term priority
 - Cruise: more berths and percent utilization of berths will need to increase
 - Containers: moves per crane/berth and TEUs per acre need to increase; dwell times
 need to decrease; landside transportation issues must be dealt with ASAP
 - Bulk/breakbulk: tons/acre need to increase but overall acreage goes down slightly
 - Ro-Ro: high growth market; requires more land
- Regional demand vs. PEV demand
 - Three ports (PEV, PortMiami, Port of Palm Beach) serve the core South Florida market
 - Market conditions will drive future berth and land demand in the region
 - Value proposition, capacity, efficiency and relationships will drive port selection
 - PEV cannot be everything to everyone; tradeoffs are unavoidable
 - Infrastructure, efficient operations and flexibility are key to PEV's future success



Issues and Opportunities – Day 1 Feedback

Liquid Bulk

- LNG is important but complicated to accommodate; optimal location remains TBD
 - B&A needs to confirm maximum distance to berth for LNG pipeline in order to refine potential site options
 - Slip 1/3 berth utilization must be consulted/confirmed before LNG is considered for Berths 7-13
 - PEV should consider using the north side of the STNE for LNG bunkering
 - Hybrid options that allow a barge to "bunker" LNG vessels more directly should be considered
- Slip 1/3 expansion project needs to consider replacement of existing pipeline infrastructure for petroleum

Cruise

- Potential concerns with prevailing winds at proposed Berth 19/20 finger pier
 - Simulation needs to occur before this project is formally recommended
- APM could be a game-changer for PEV
 - Secure and efficient remote baggage handling will be an important factor
 - In lieu of on-port parking, PEV should consider off-port parking options that minimize on-port traffic and maximize utilization of proposed APM
- Traffic study needs to consider impact of security checkpoints on flow and congestion because there is congestion at both Eisenhower and Eller Drive gates



Issues and Opportunities – Day 1 Feedback

Cargo

- Midport (Berth 29) should include stern ramp in addition to quarter ramp options in order to accommodate complete range of Ro-Ro vessel operations
 - "Figure 7" design to be evaluated by B&A; turning notch stern ramp to be evaluated
 - High and heavy ro-ro cargo requires concrete yard area as opposed to traditional asphalt
- LNG is important to cargo industry as well as cruise industry but same complications in terms of operations and site selection
- Port Access Road and Northport break-bulk yard should account for yard handling equipment heights if possible
- Extension of Griffin Road into Southport as an additional/secondary access/egress route is important, needed and should be prioritized
 - The value/impact of the security checkpoint on McIntosh Road should be evaluated as part of the traffic study since it is redundant with ISPS gates at each terminal and may contribute to truck traffic
 - Truck queuing capacity is still important and must be factored into McIntosh Road realignment project
- Dynegy is a strong potential location for cold/frozen storage or other logistics uses and should be activated in the near term if possible



Issues and Opportunities – Day 1 Feedback

Cargo (continued)

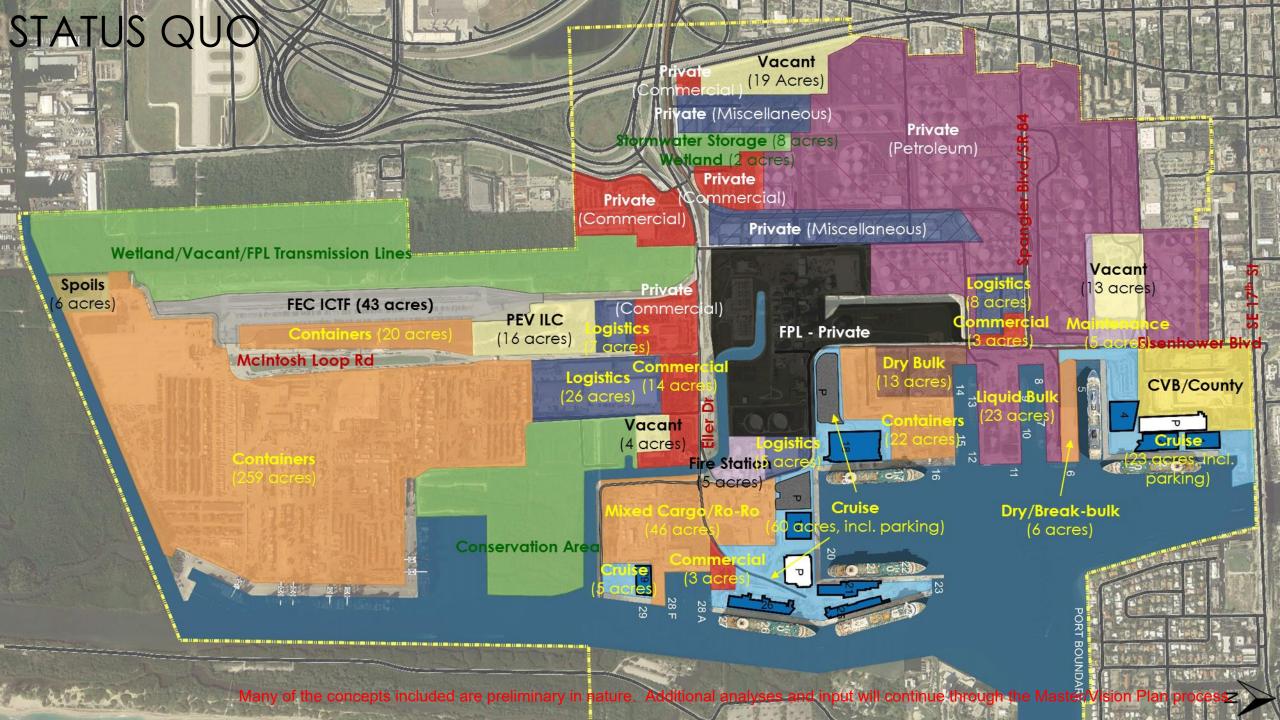
- Shaw property is a strong potential location for port industrial uses including distribution and/or chassis/empty storage, assuming Griffin Road extension moves forward
- Both technology and operational changes are required to meet future containerized cargo demand on available acres/berths
 - Appointment systems are needed sooner rather than later to help manage gate congestion issues
 - Container yard densification is a near, mid- and long-term requirement to meet future demand meaning all PEV terminals will likely need to move to RTG operations as soon as feasible
- More cranes (at least 2 per Southport berth) in addition to the 13 currently envisioned should be considered in order to support projected container activity
 - Berth capacity is more limited than acreage, even after the STNE
 - Berth/crane productivity must increase across the board in step with crane density

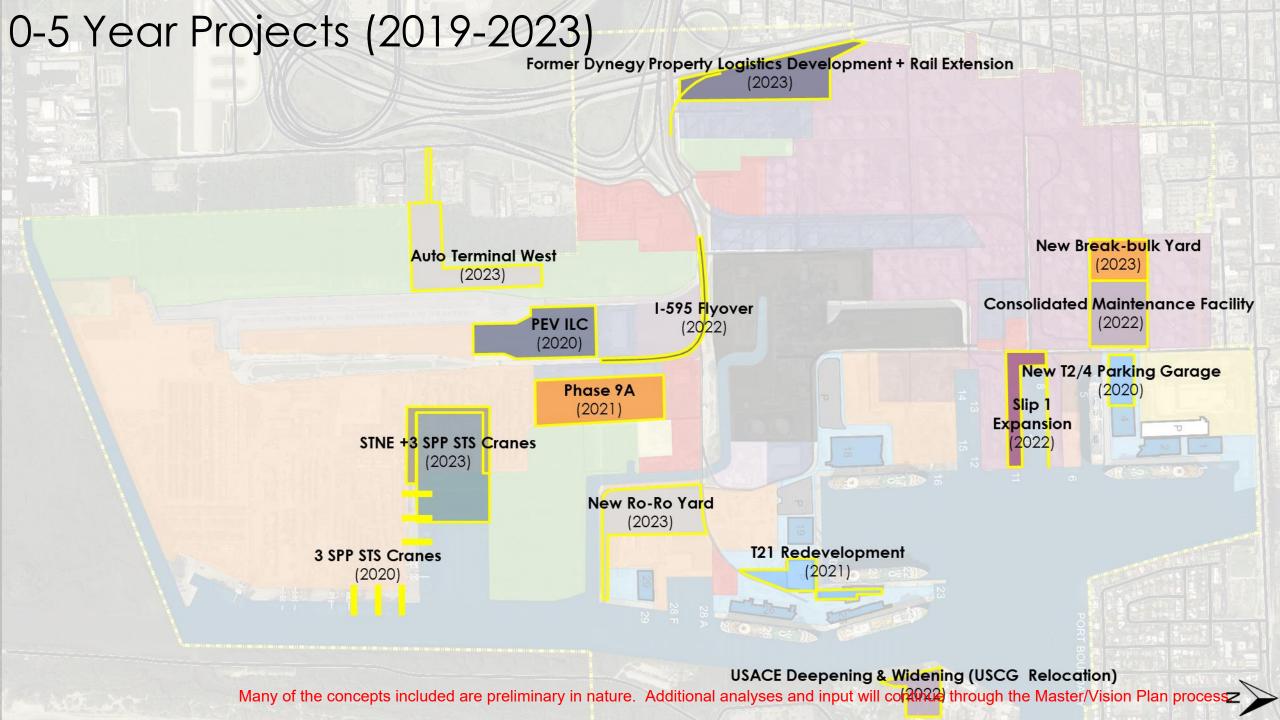


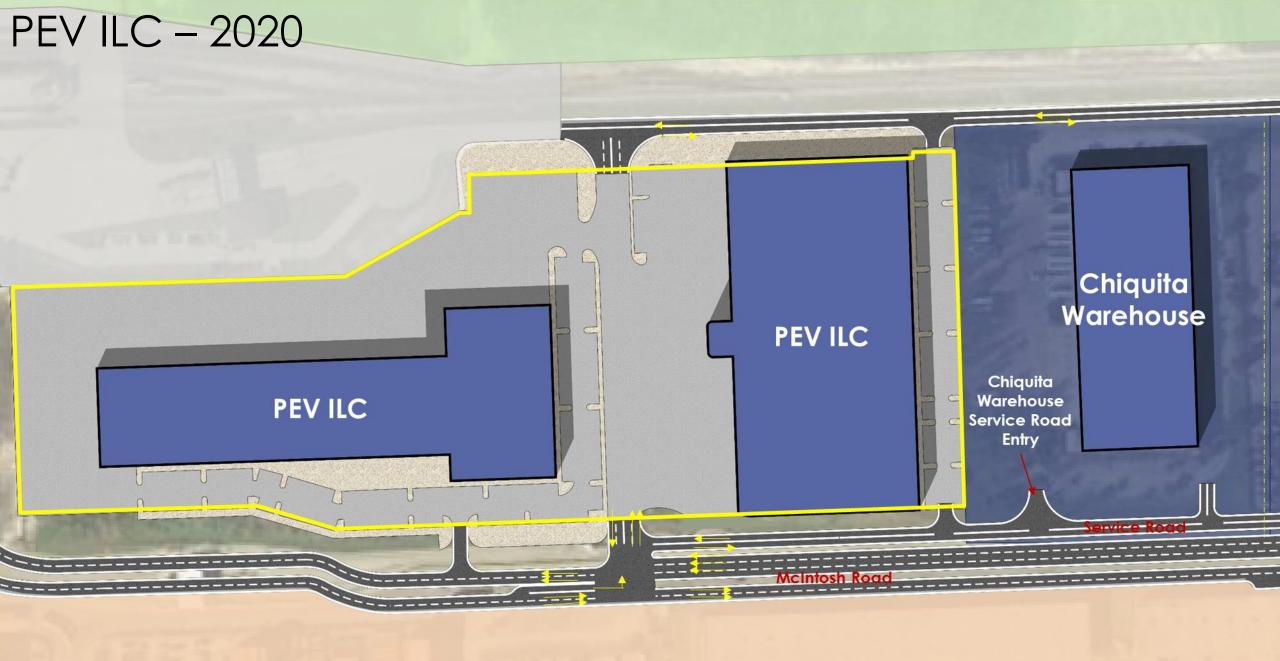
Port Projects by Area by Year

	0-5 Year Projects		5-10 Year Projects		10-20 Year Projects	
Northport	T2/T4 Parking Garage	2020	Port Access Road	2025		
	Slip 1 Expansion	2022	Slip 3 Expansion	2026		
	Maintenance Facility Consolidation	2022	LNG Bunkering + Storage Facility	2028		
	Break-bulk Yard	2023				
Midport	T21 Redevelopment	2021	Tracor Basin Fill	2024	Berth 19 Finger Pier	2029
	Ro-Ro Yard Relocation/Expansion	2023	T29	2027	T19/20	2030
			Ro-Ro Yard Expansion	2027	Berths 14/15 Realignment	2037
			T26	2028	Ro-Ro Yard Expansion	2033
					T14/15	2038
Southport	PEV ILC	2020	Phase 9C-1	2025	Phase 9C-2	2029
	3 SPP STS Cranes	2020	Phase 9A-2	2026		
	Phase 9A-1	2021	Griffin Road Extension	2026		
	STNE + 3 SPP STS Cranes	2023	McIntosh Road Realignment	2027		
			Berth 33 Alignment	2028		
			Container Terminal reconfiguration	2028		
Portwide/Other	USACE Deepening & Widening (USCG Relocation)	2022	Shaw Property Development	2024	APM	2035
	Shaw Property Acquisition	2022	USACE Deepening & Widening	2025		
	I-595 Flyover	2022	Commercial Consolidation	2025		
	Former Dynegy Logistics Development	2023				
	Auto Terminal West	2023				



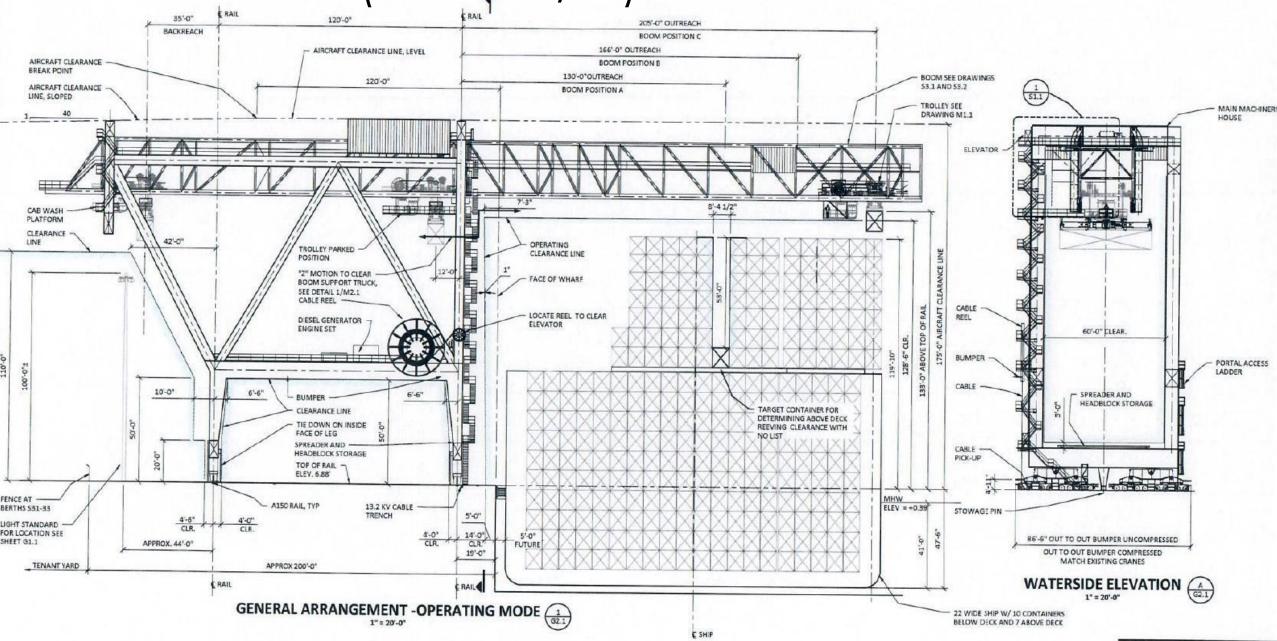






T2/T4 Parking Garage – 2020 Proposed T2/T4 Parking Garage 79,775 SF (footprint) 240 spaces per floor **T4** Many of the concepts included are preliminary in nature. Additional analyses and input will continue through the Master/Vision Plan processz

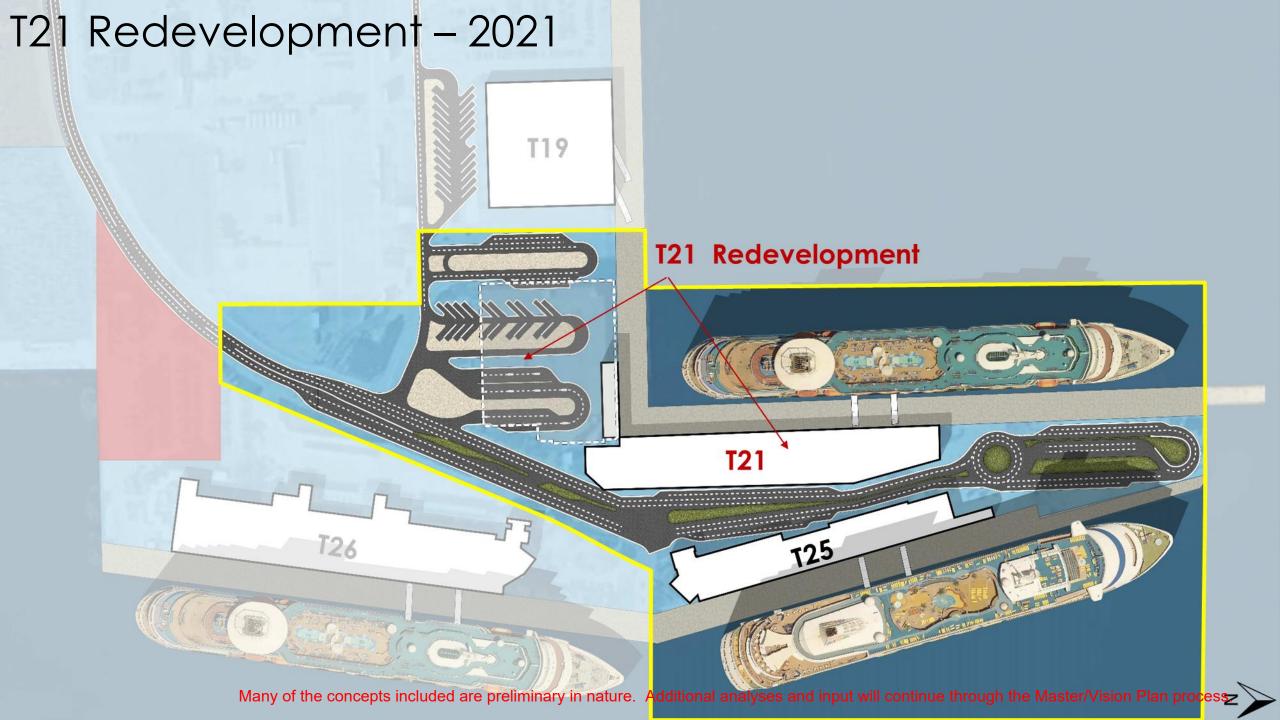
3 SPP STS Cranes (Berth 31/32) - 2020

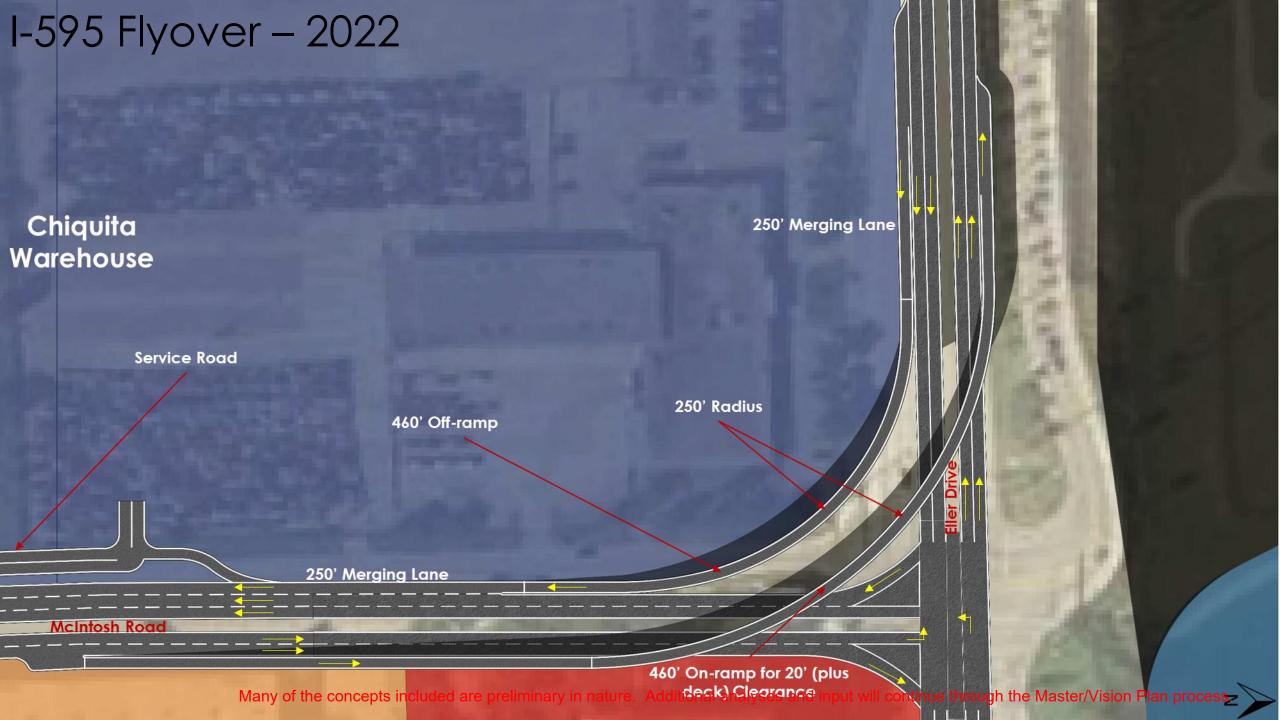


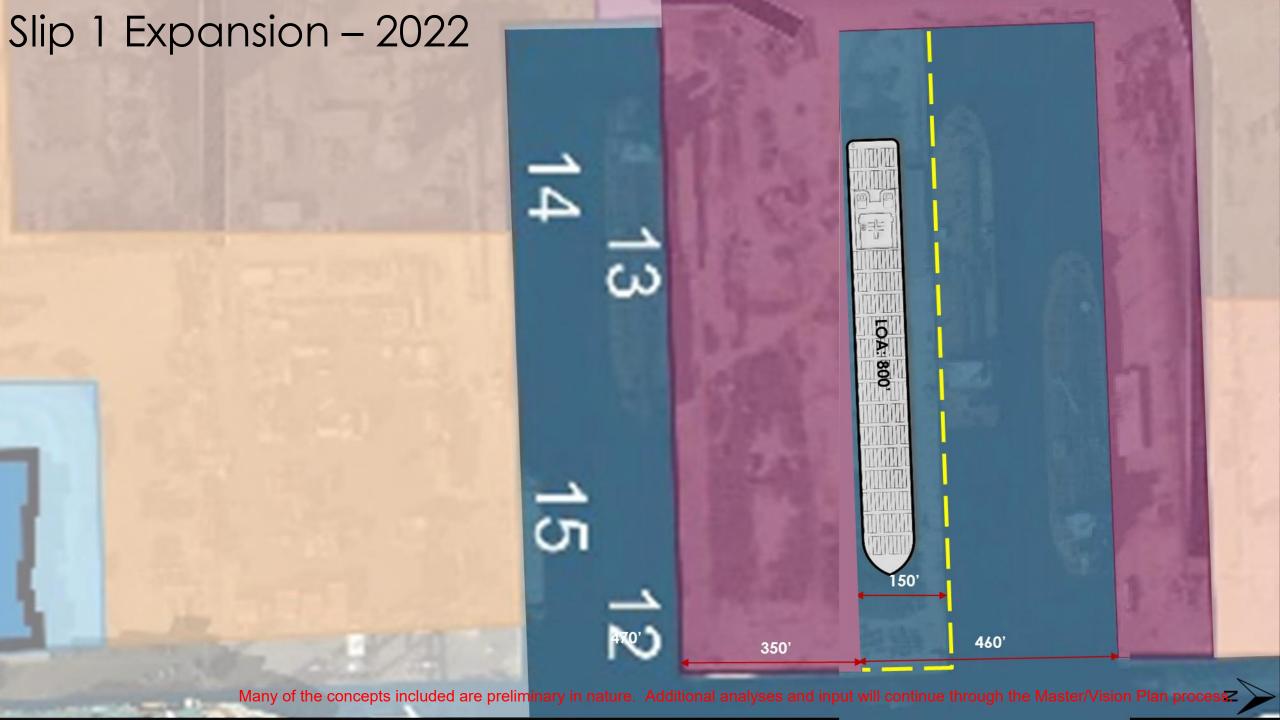
Phase 9A-1 - 2021

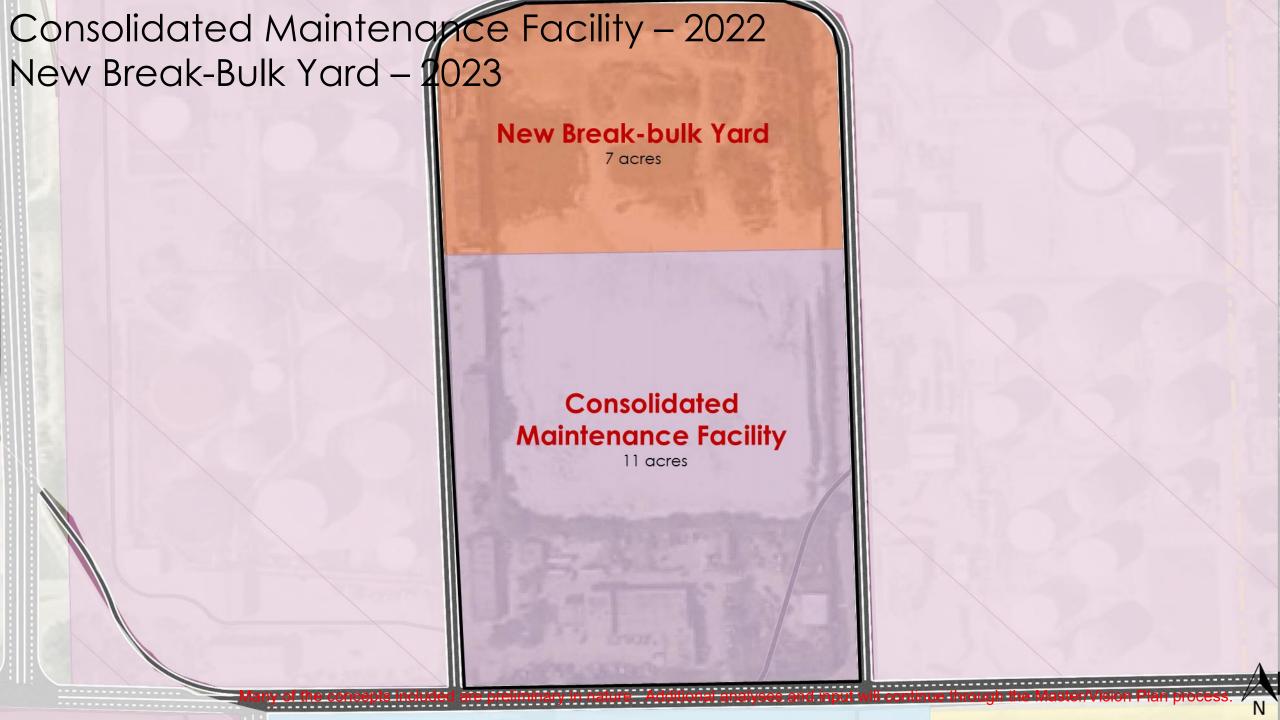


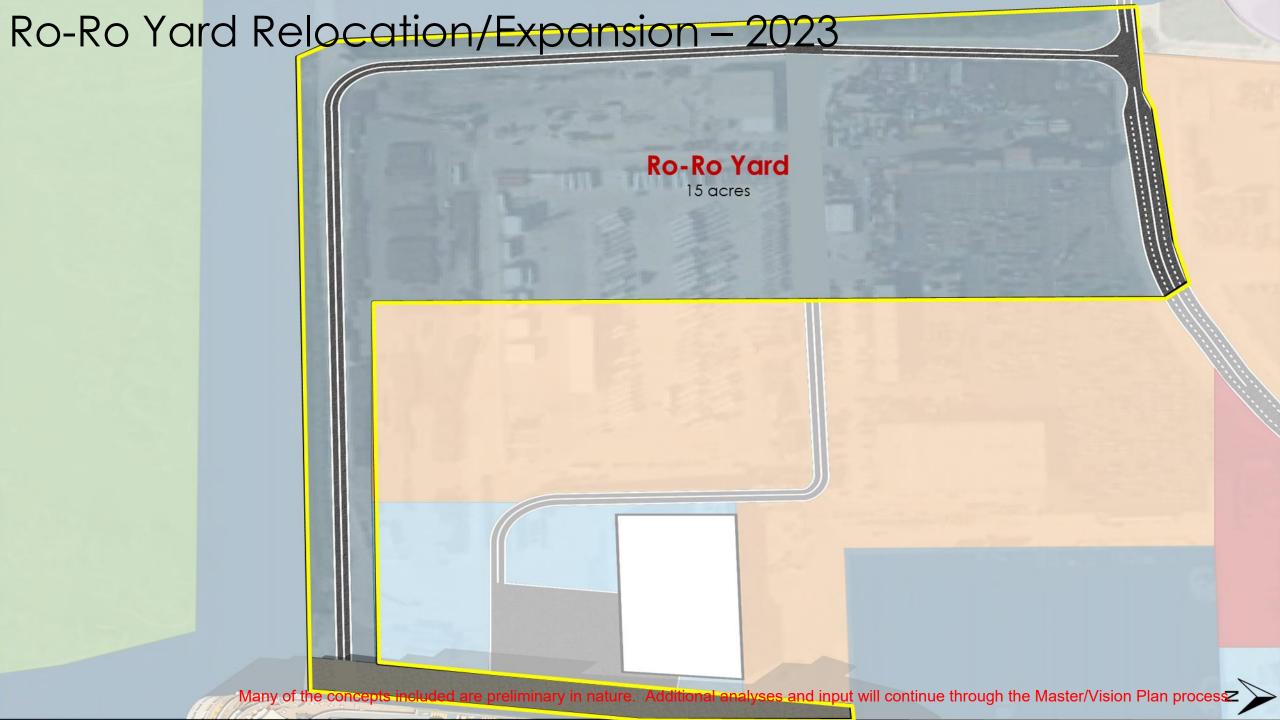
20 acres





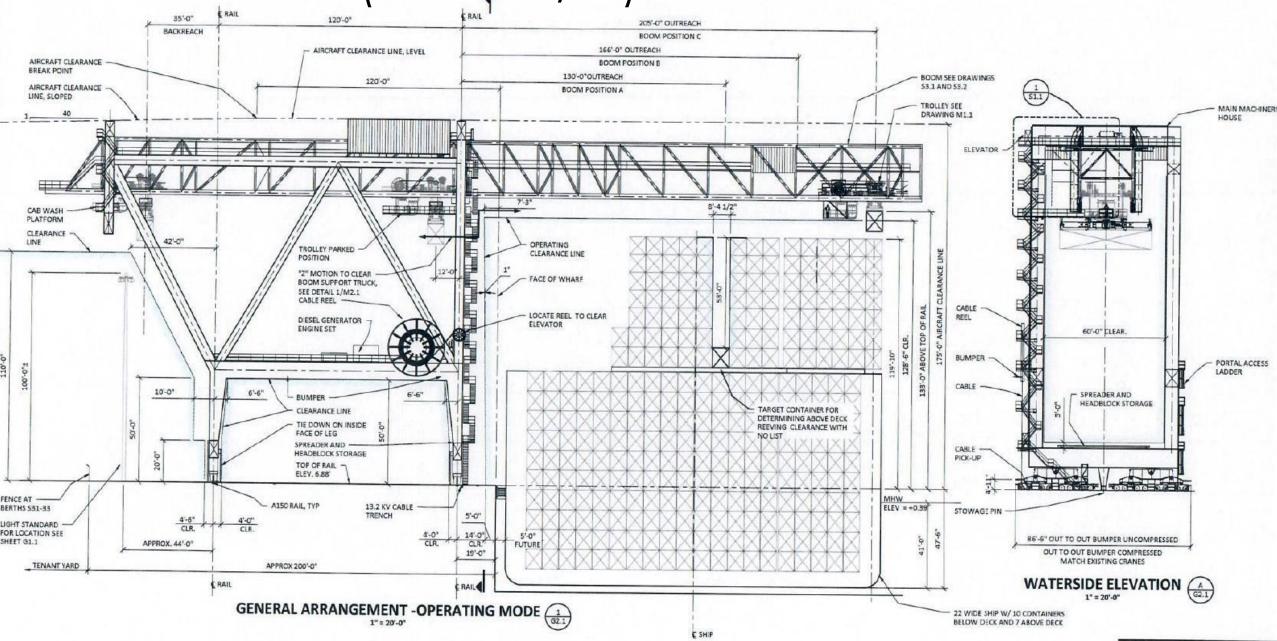


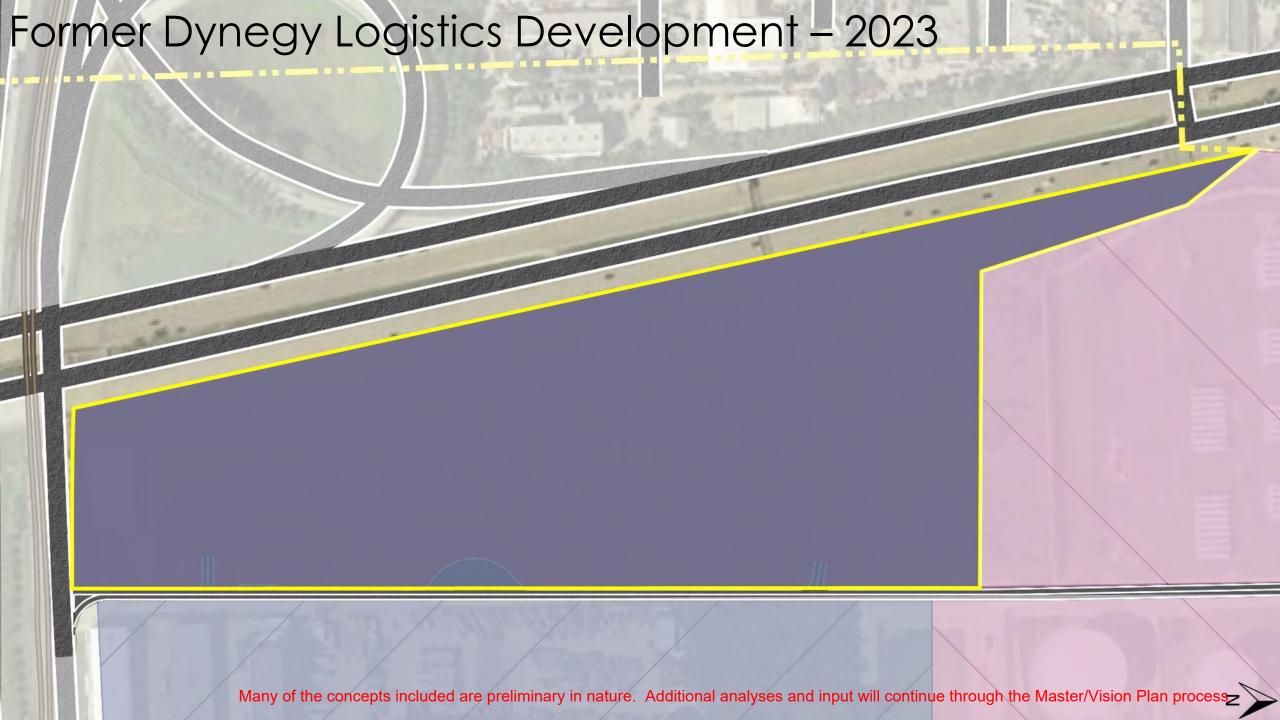


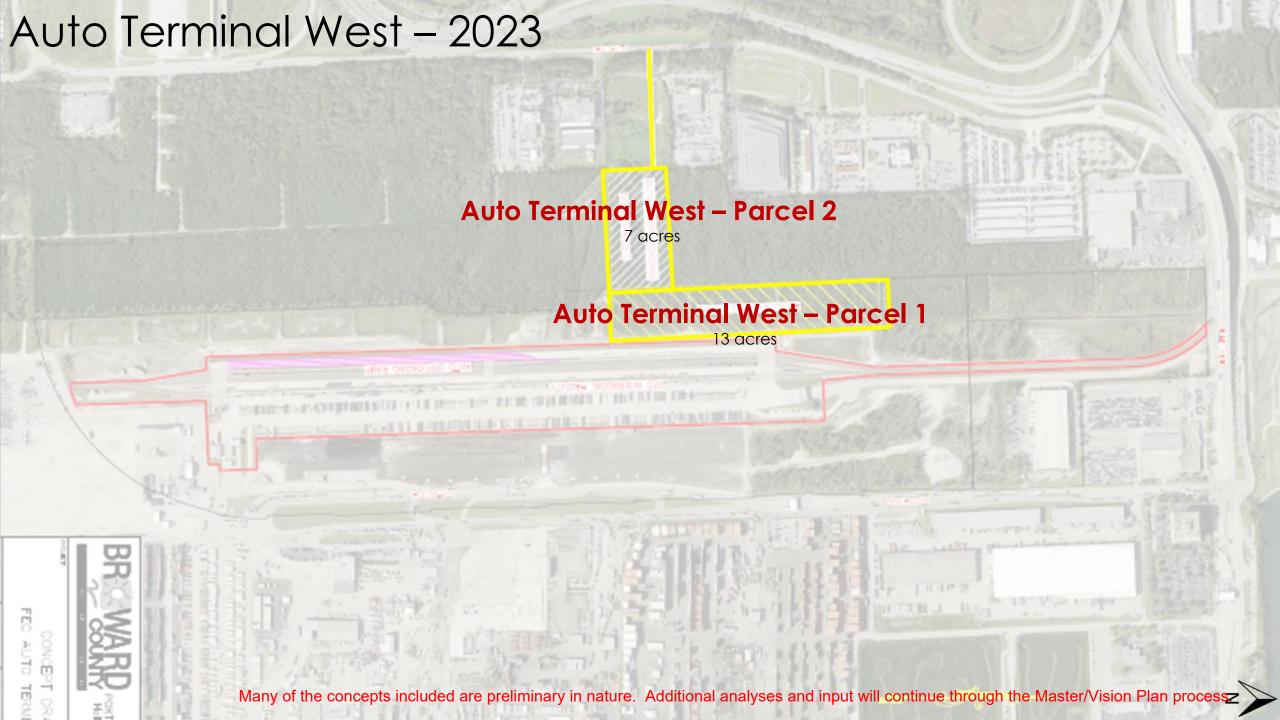


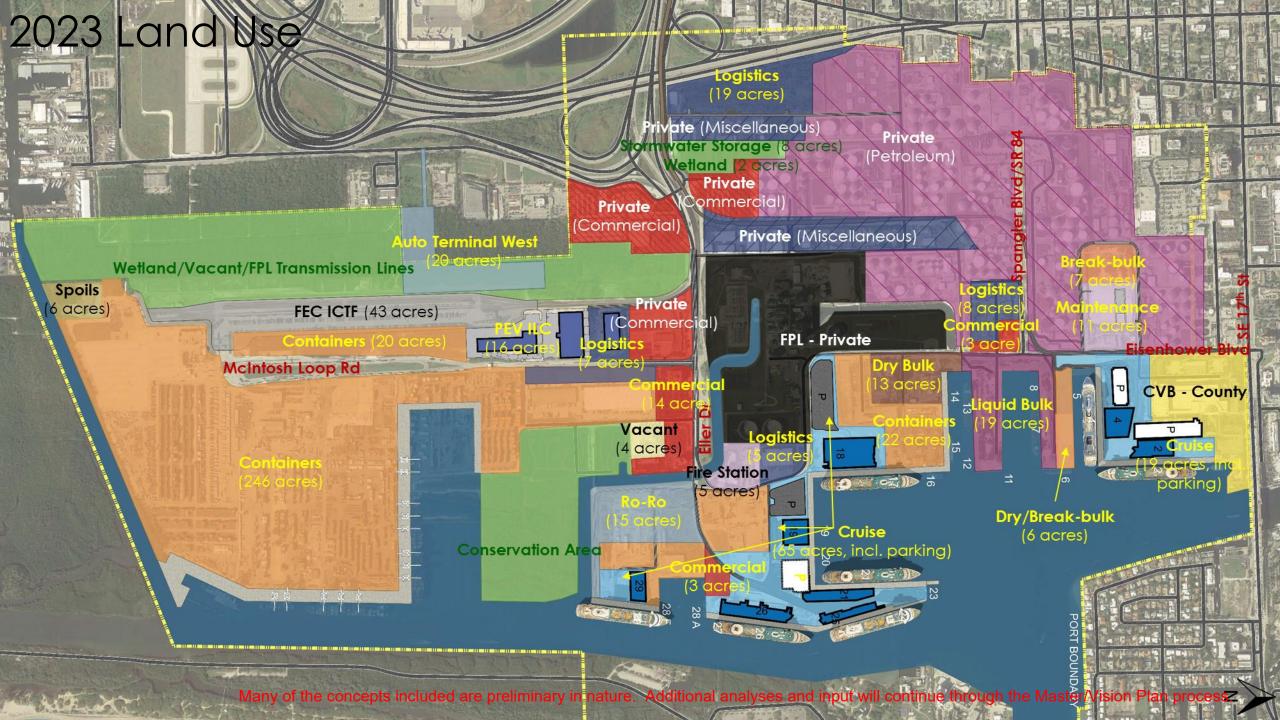


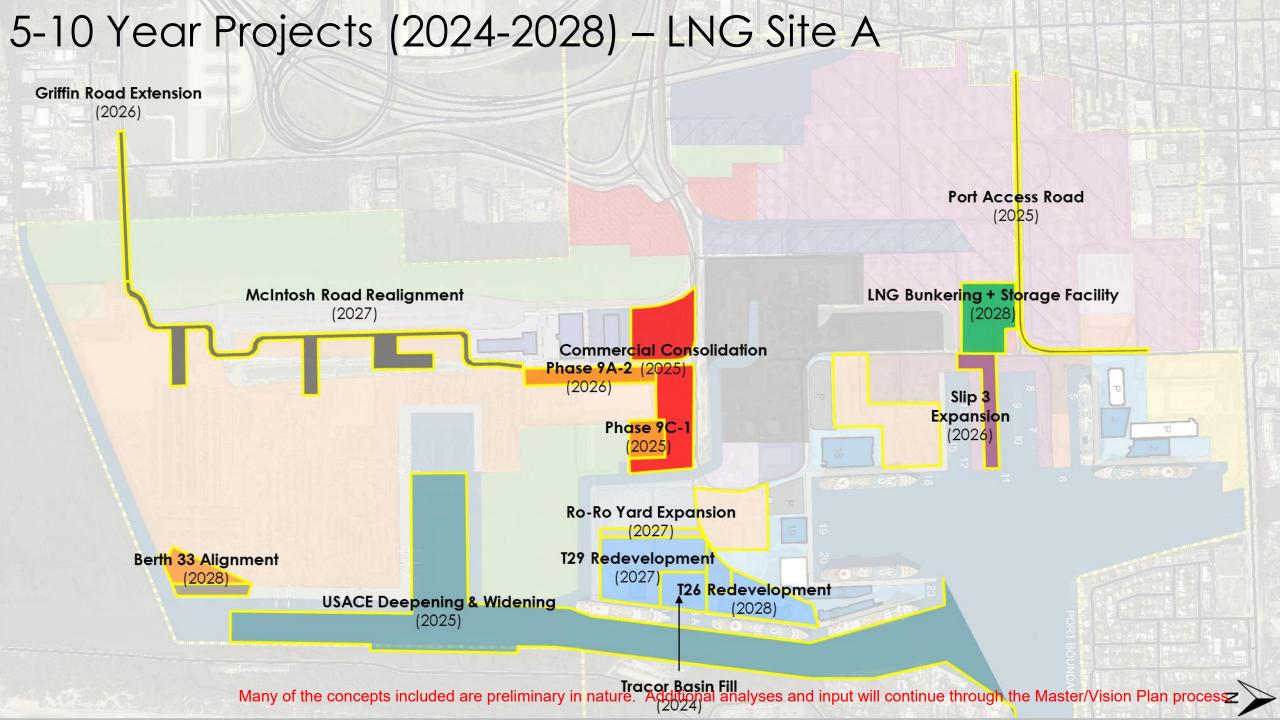
3 SPP STS Cranes (Berth \$31/32) - 2023

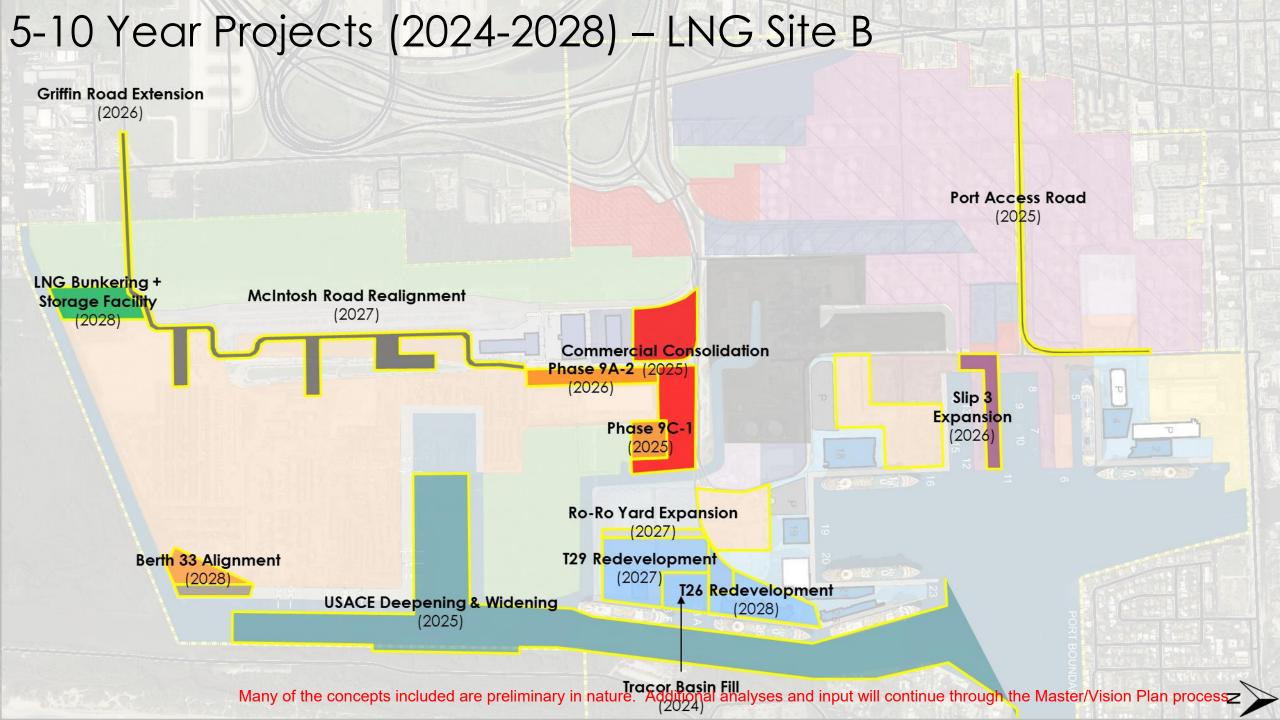


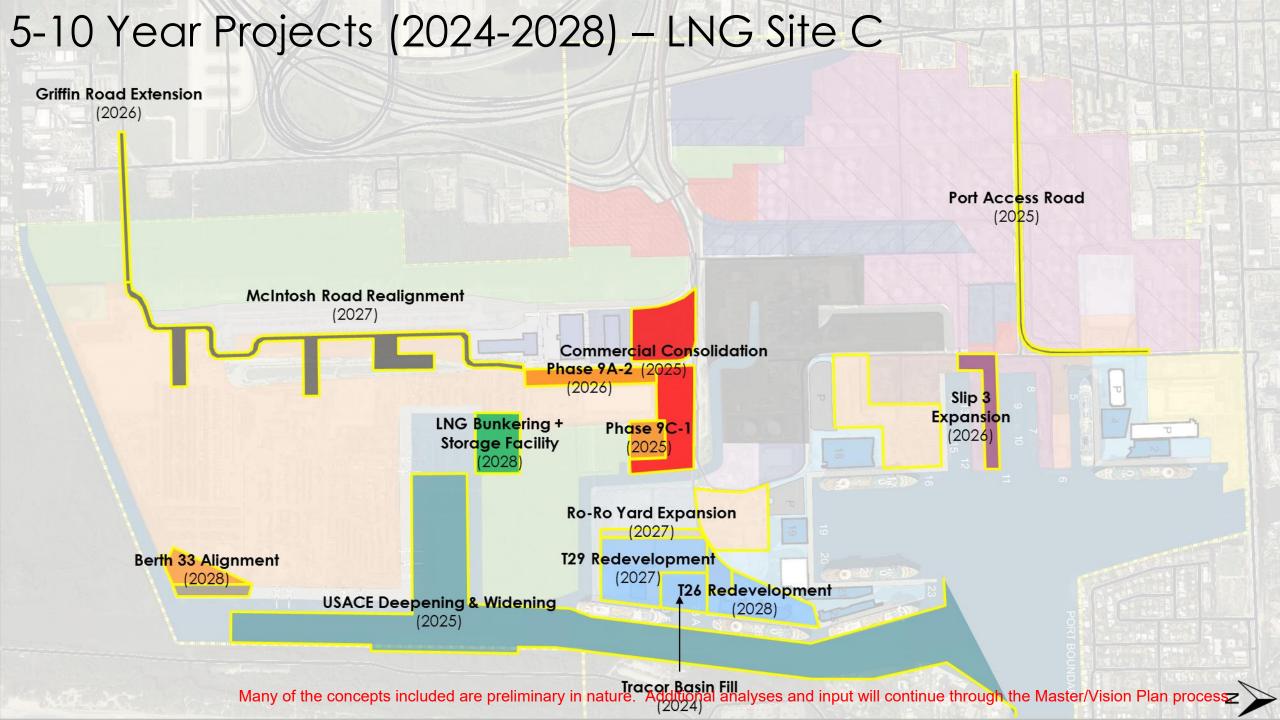


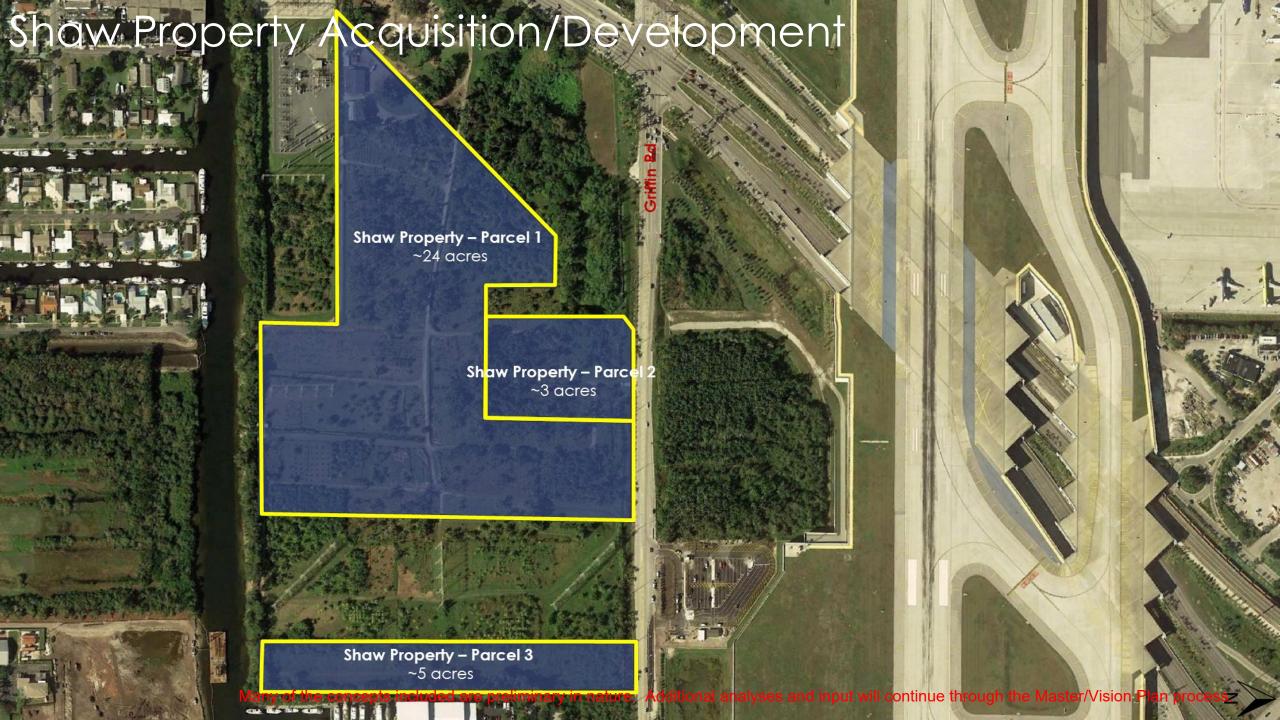


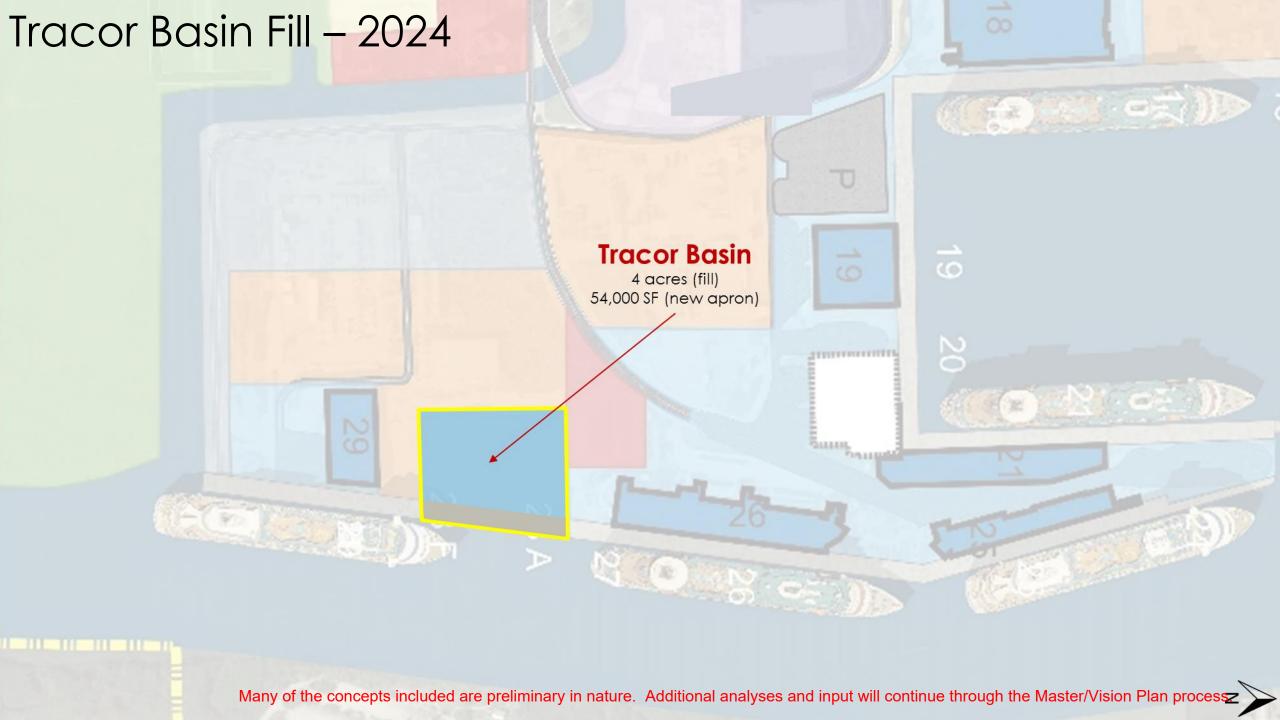


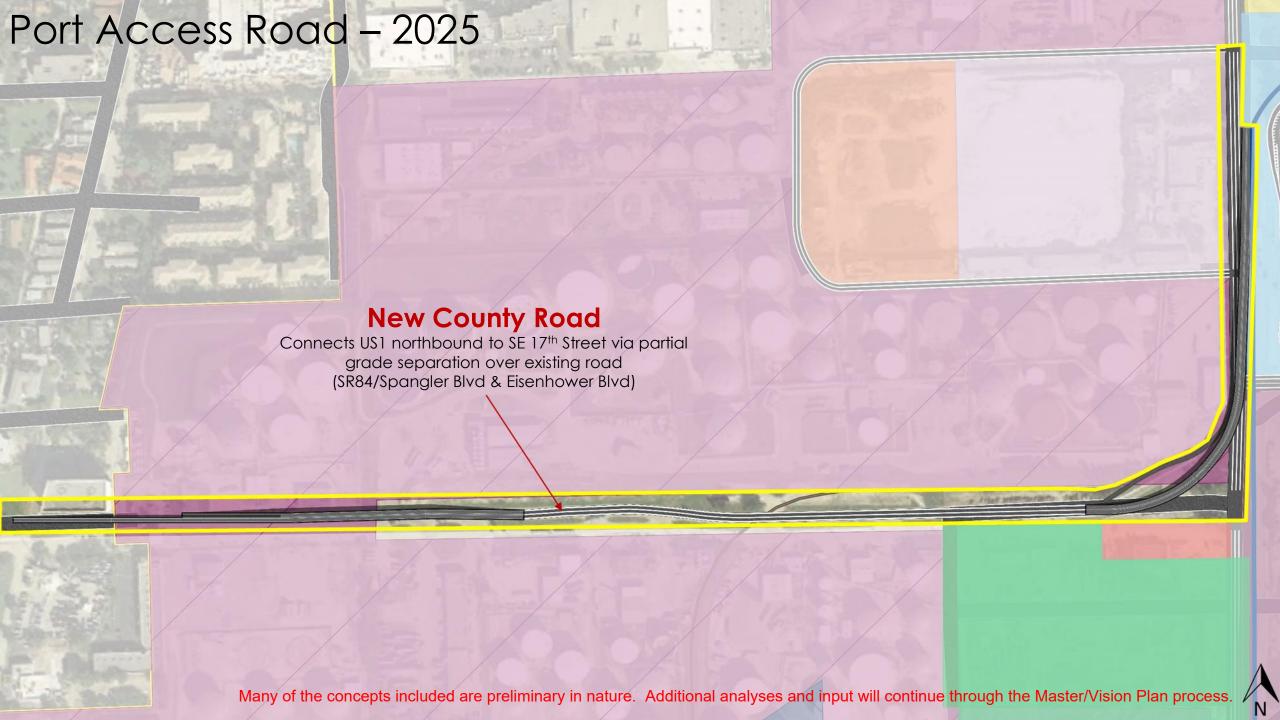


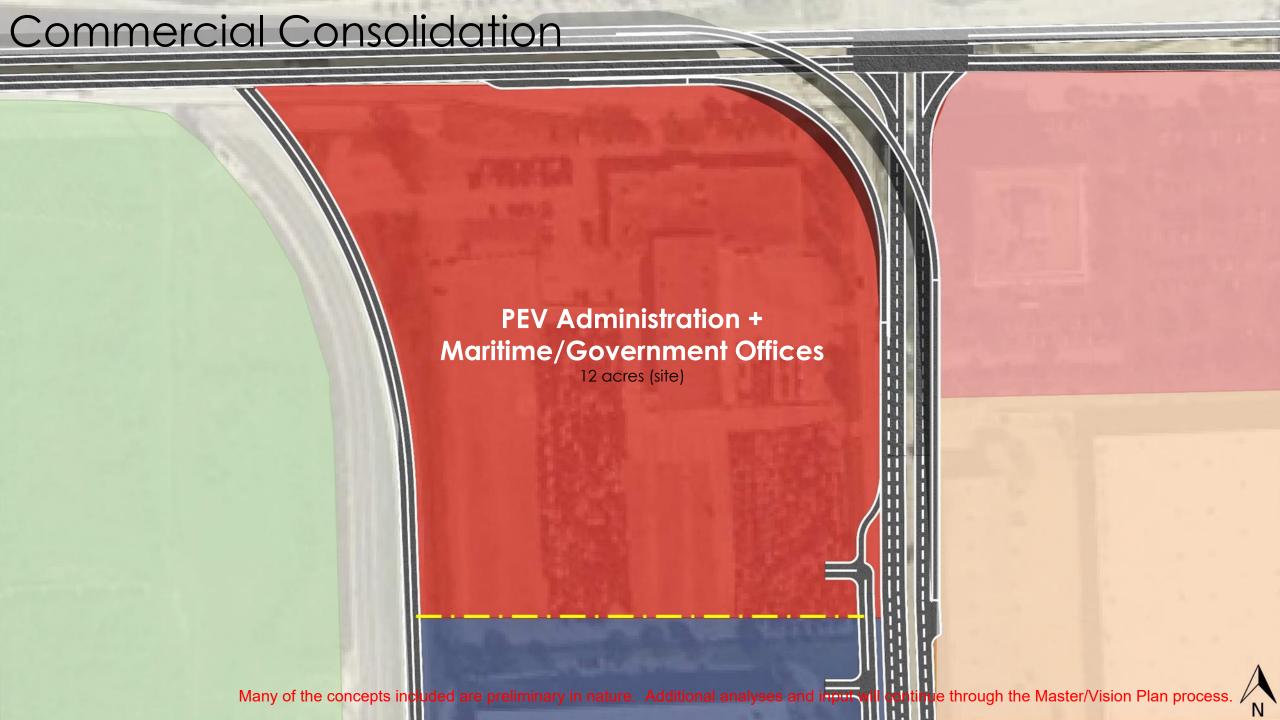




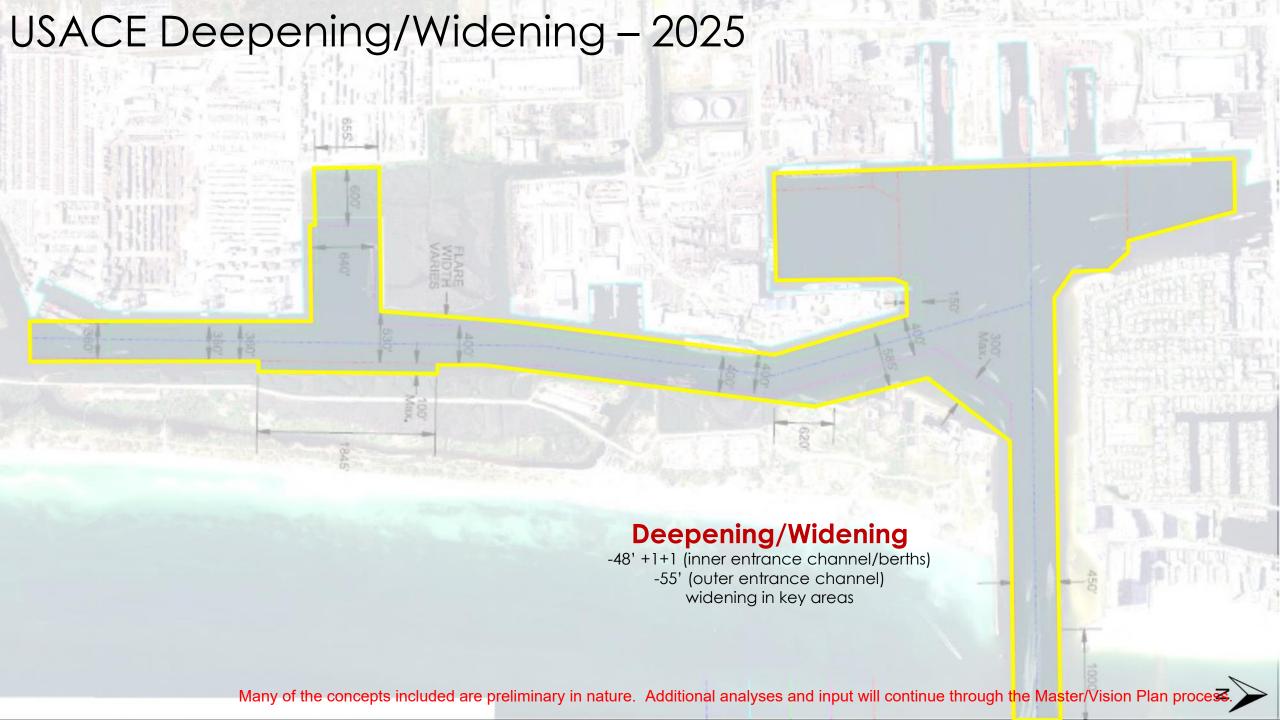










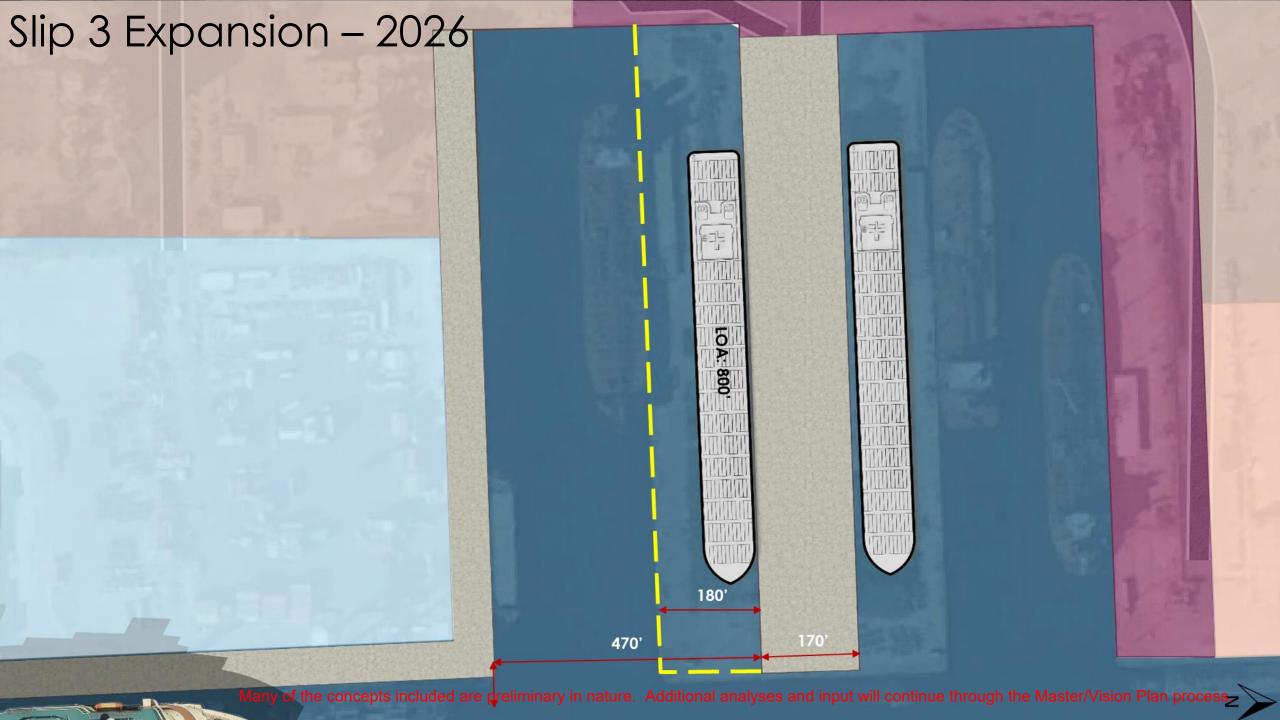


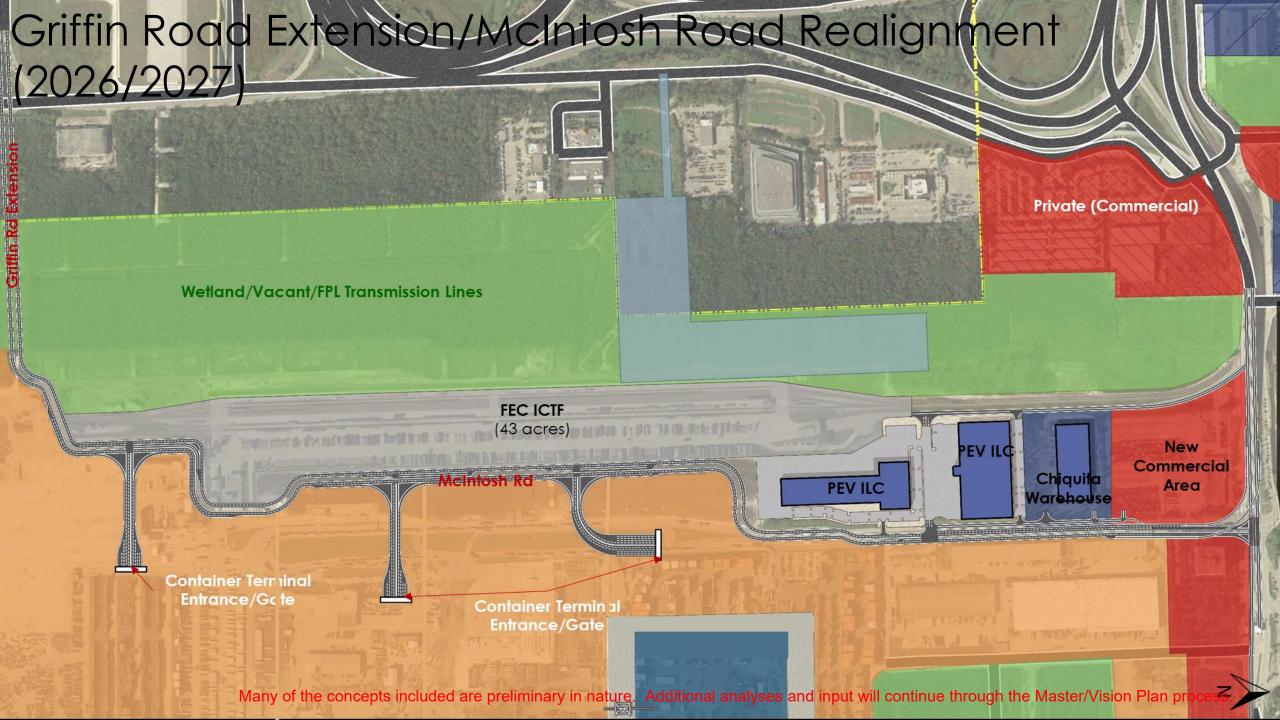
Phase 9A-2 - 2026

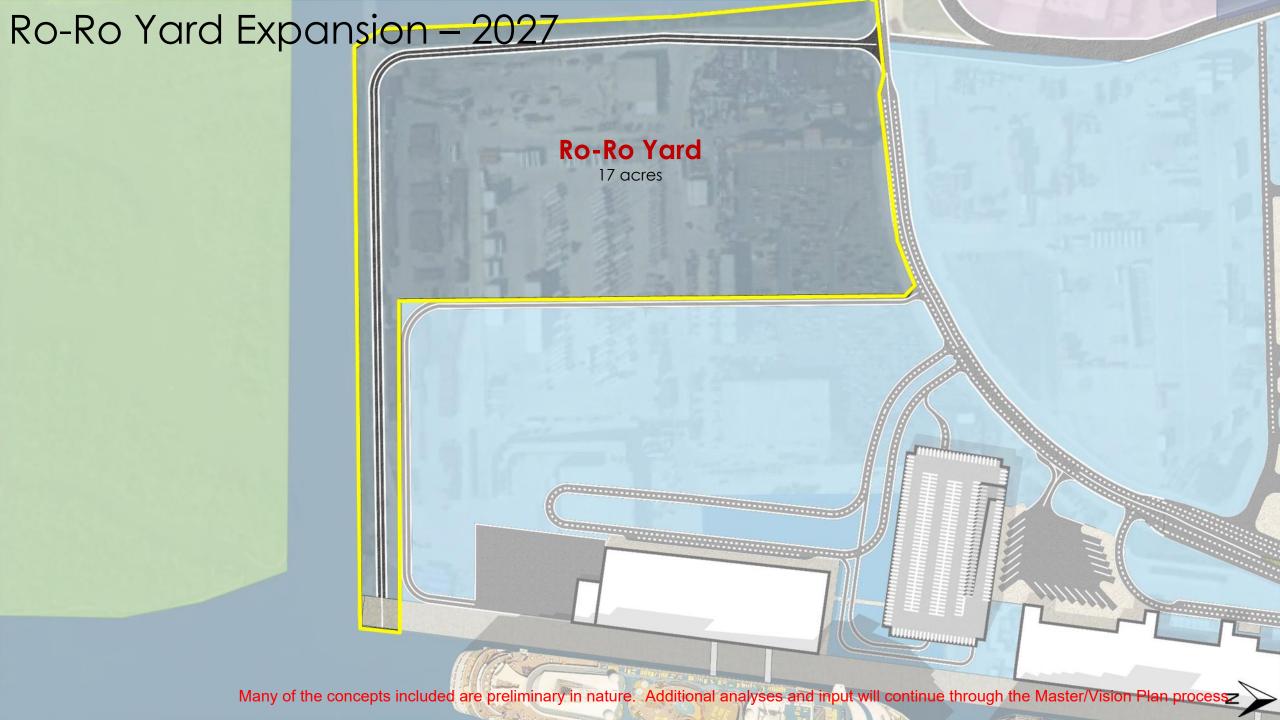
New Container Yard

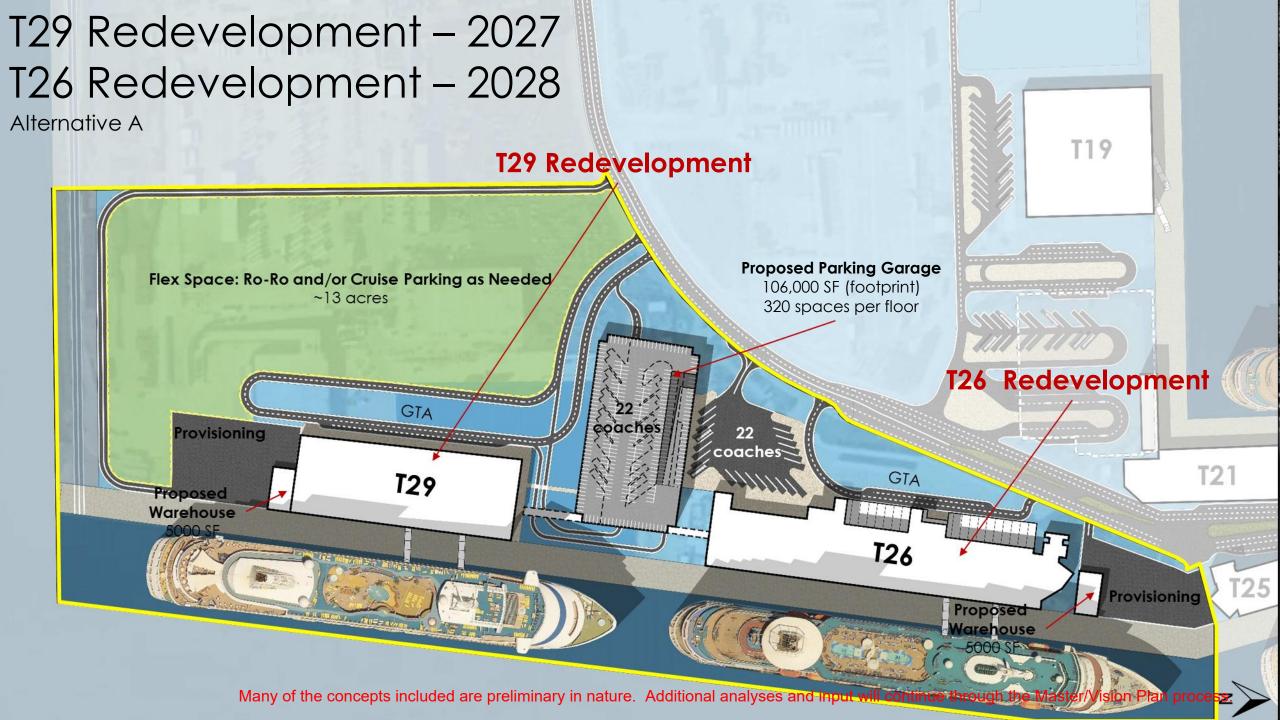
6 acres

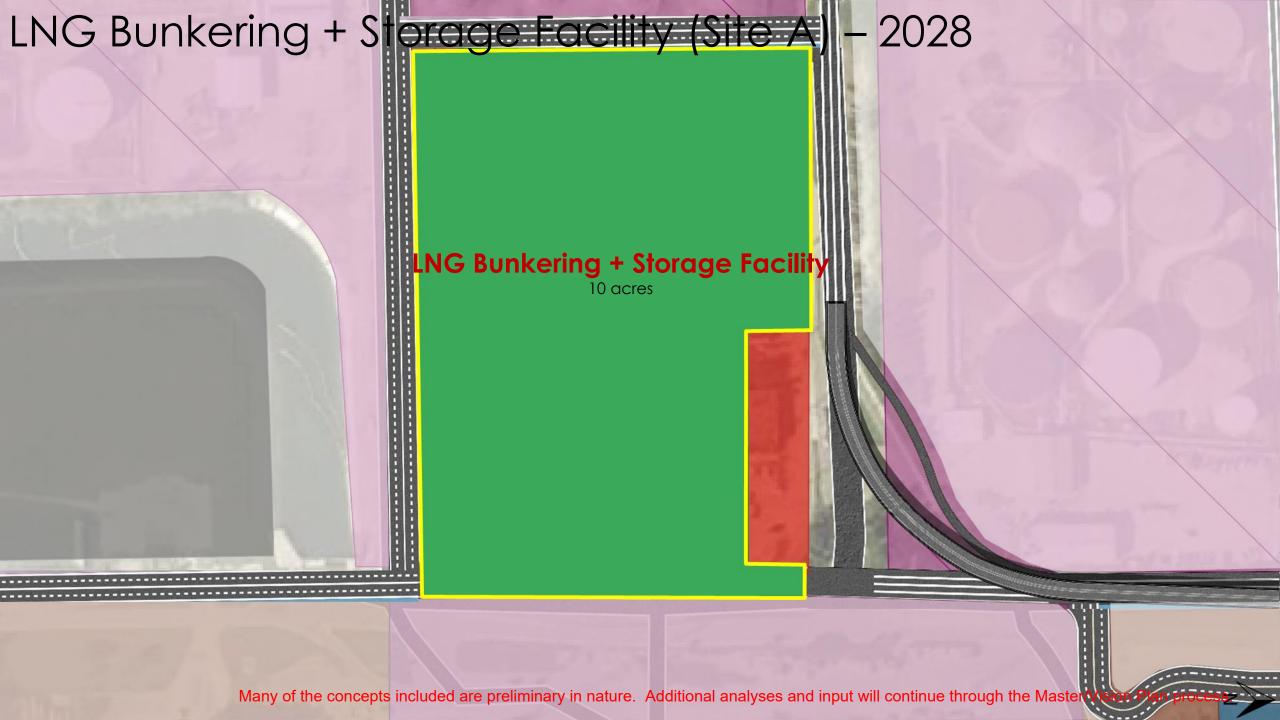










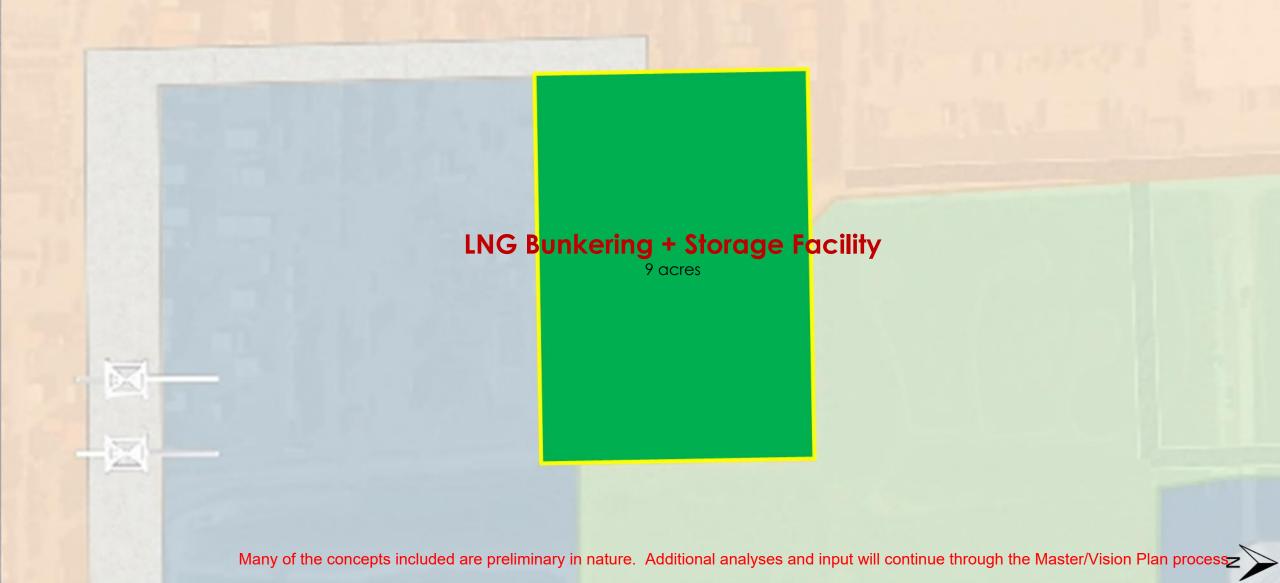


LNG Bunkering + Storage Facility (Site B) – 2028

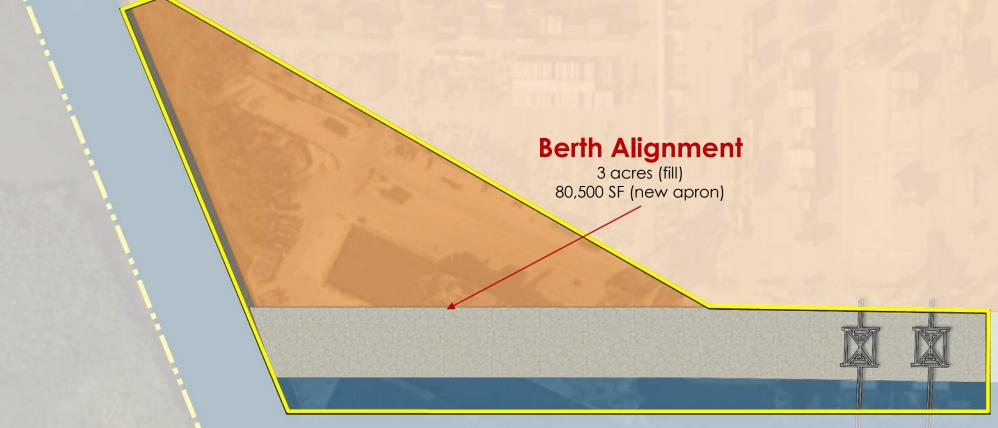


FEC Rail Spur

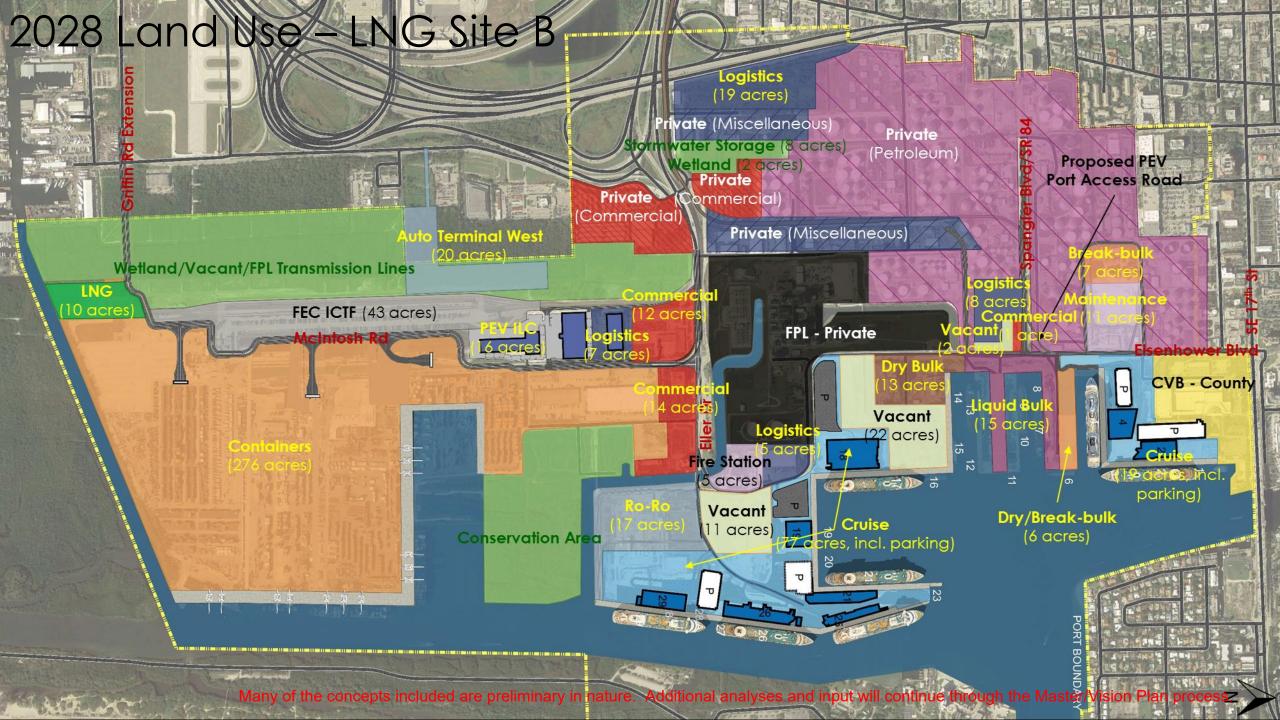
LNG Bunkering + Storage Facility (Site C) - 2028

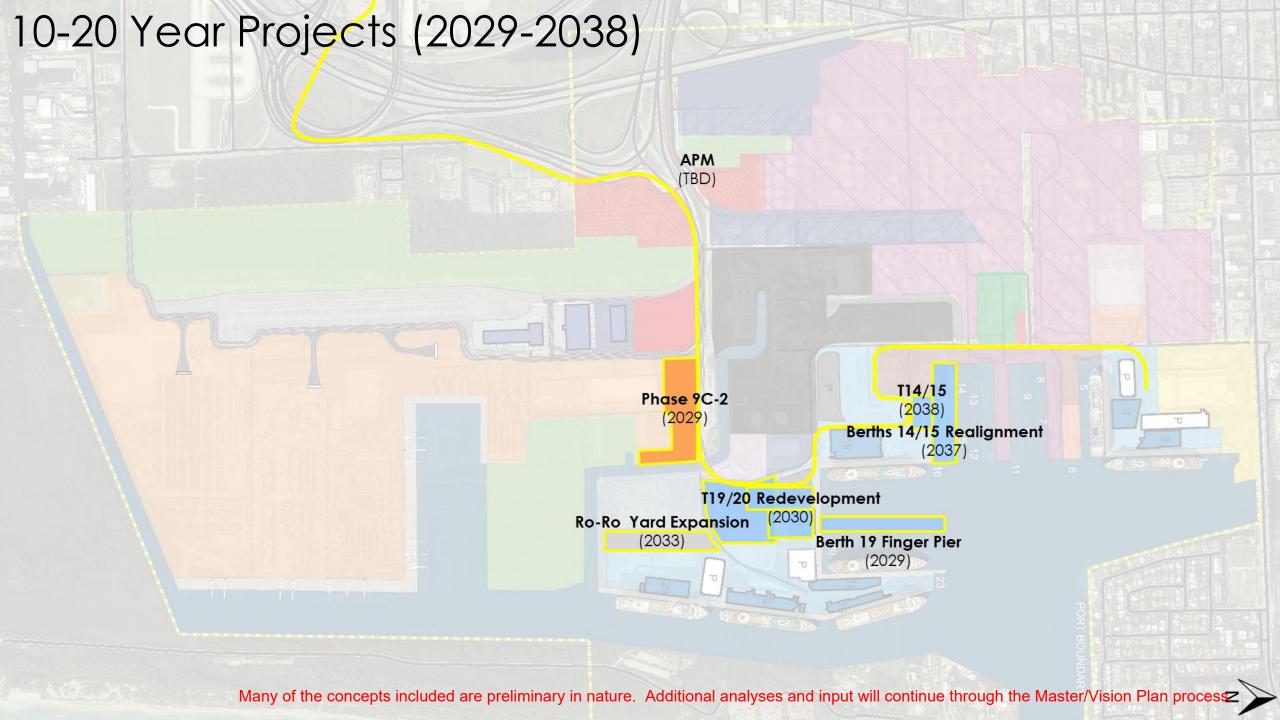


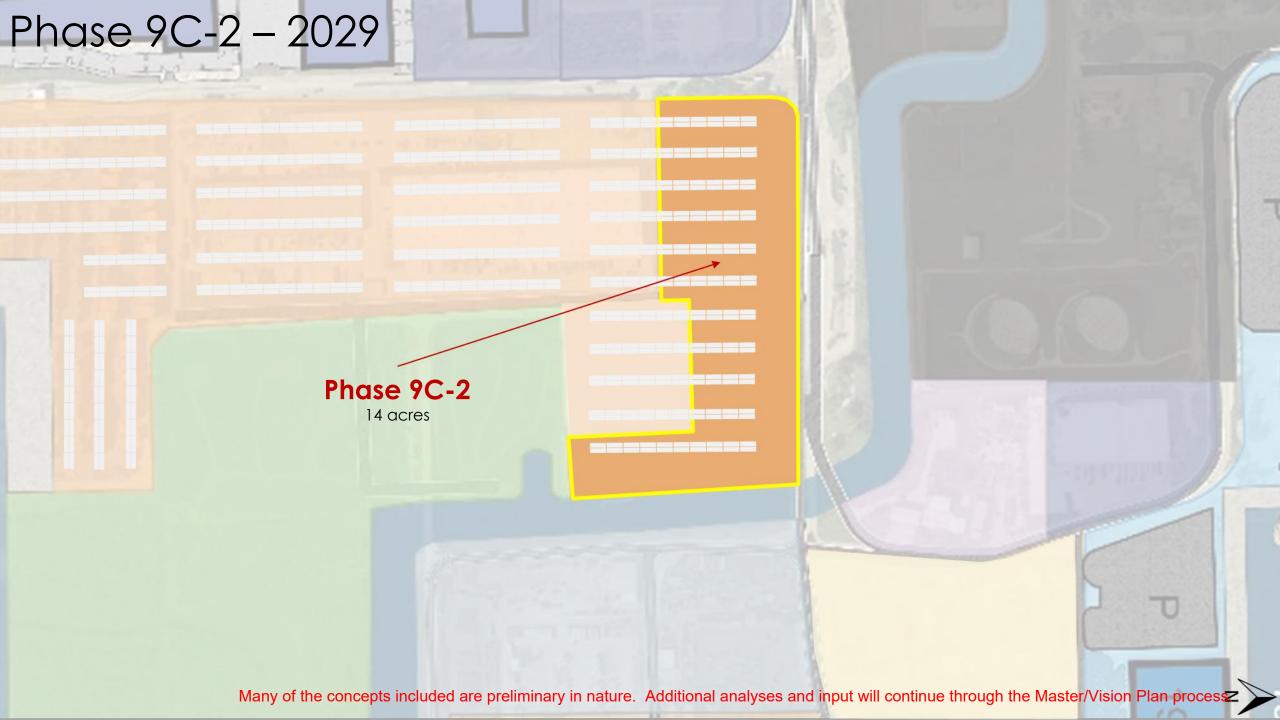
Berth 33 Alignment – 2028

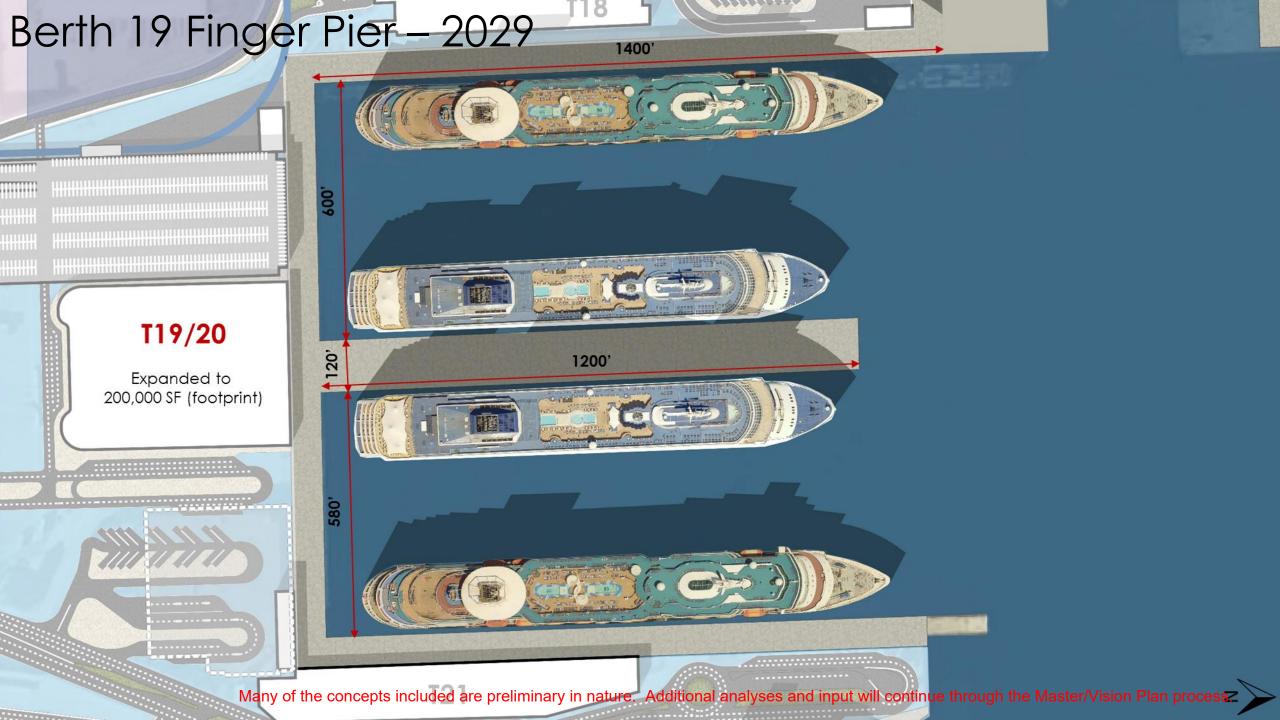










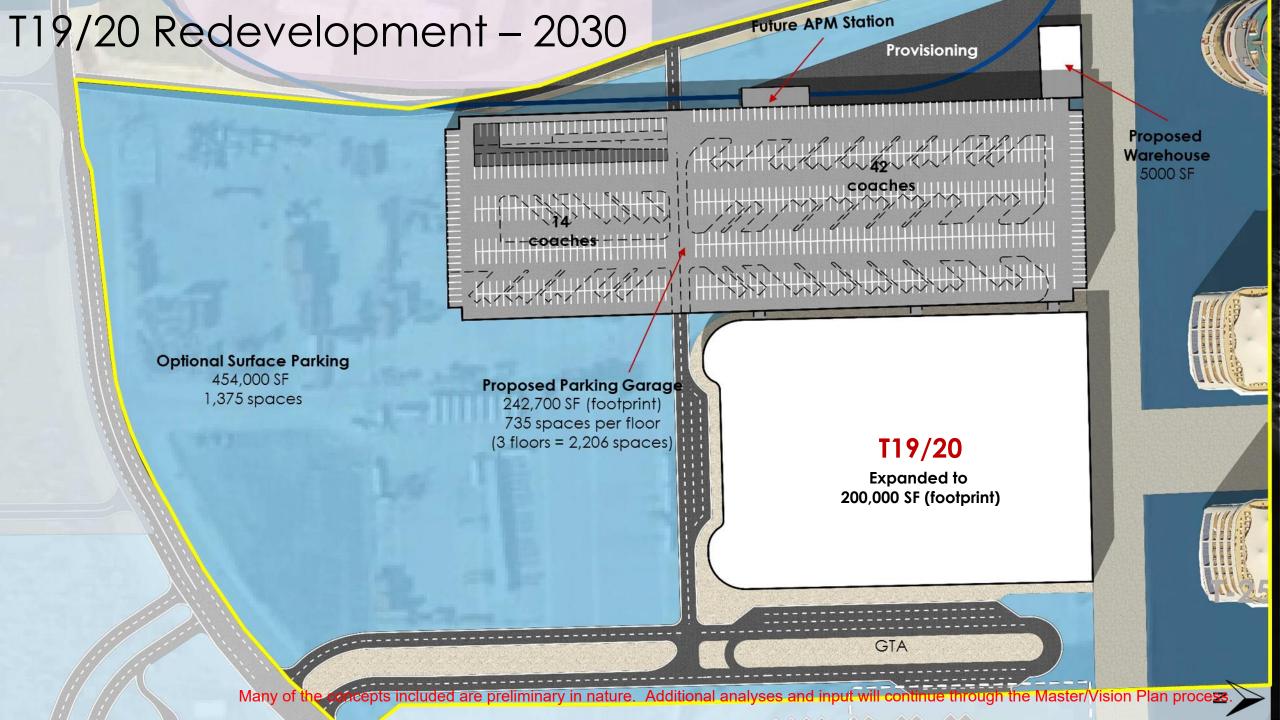


Berth 19 Finger Pier (Comparisons) – 2029

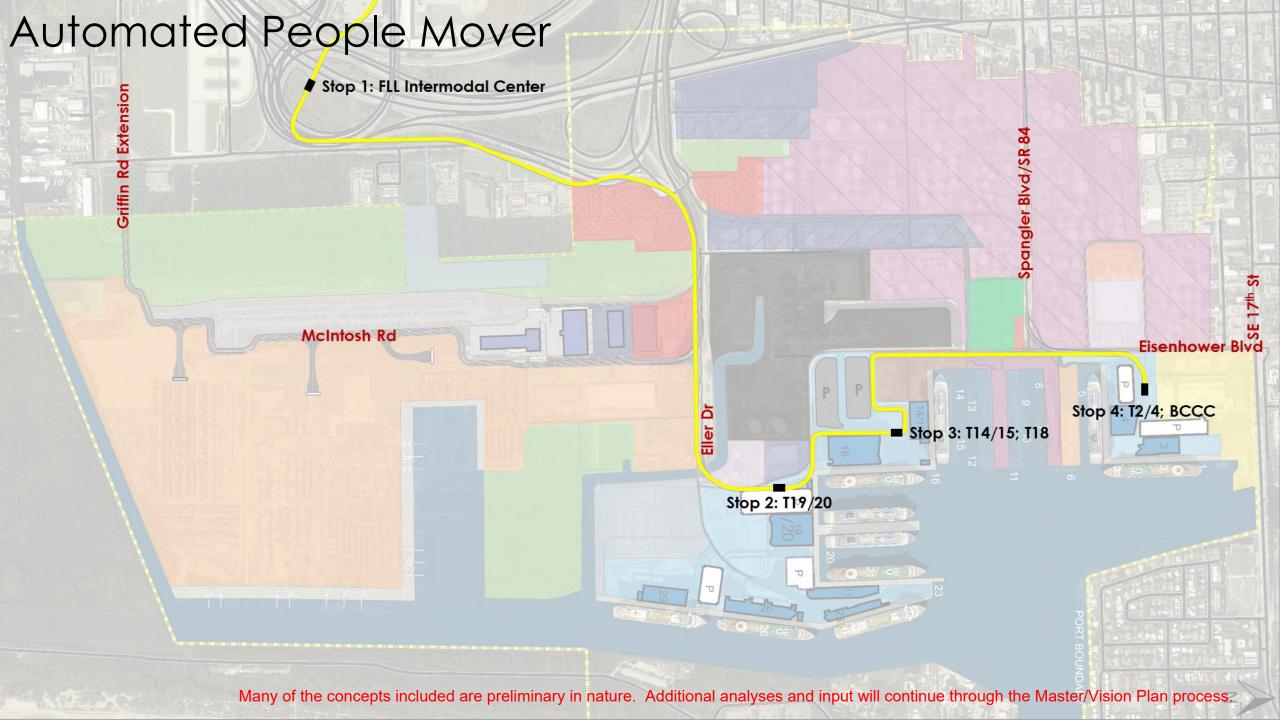


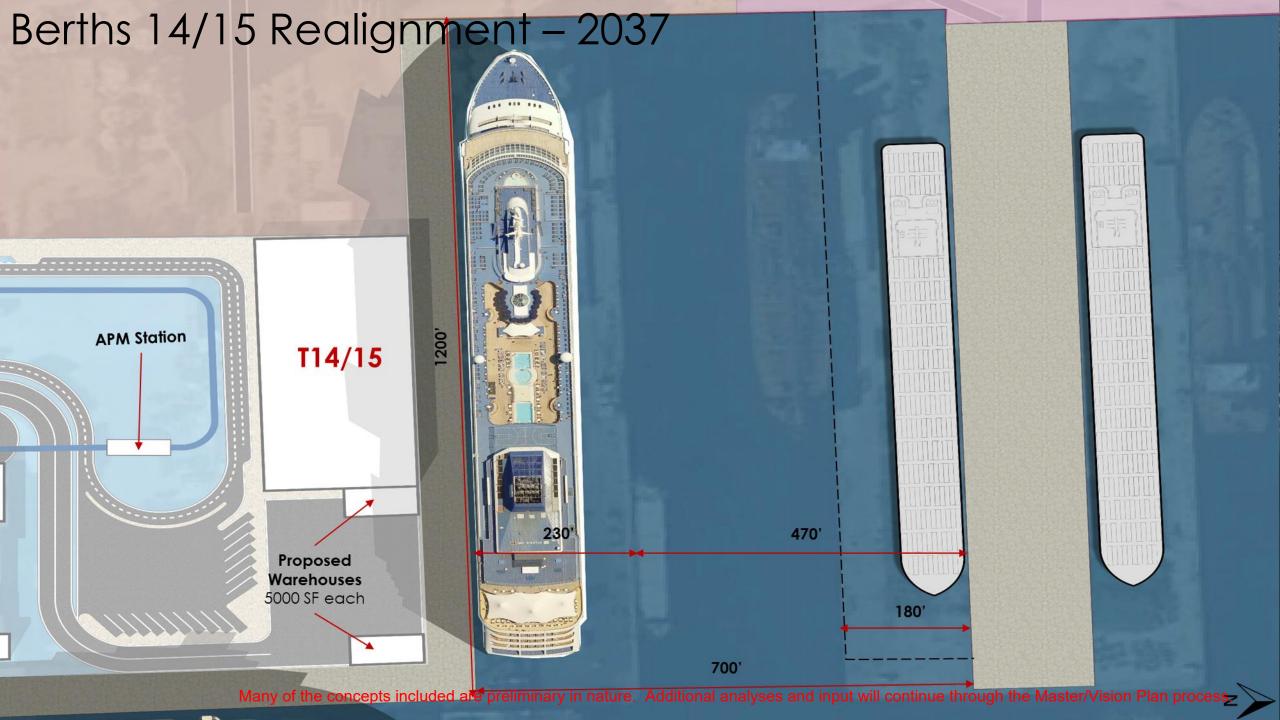
Berth Slip Comparison St. Maarten (450') Nassau (430') Antigua (450') Pier 90 Manhattan

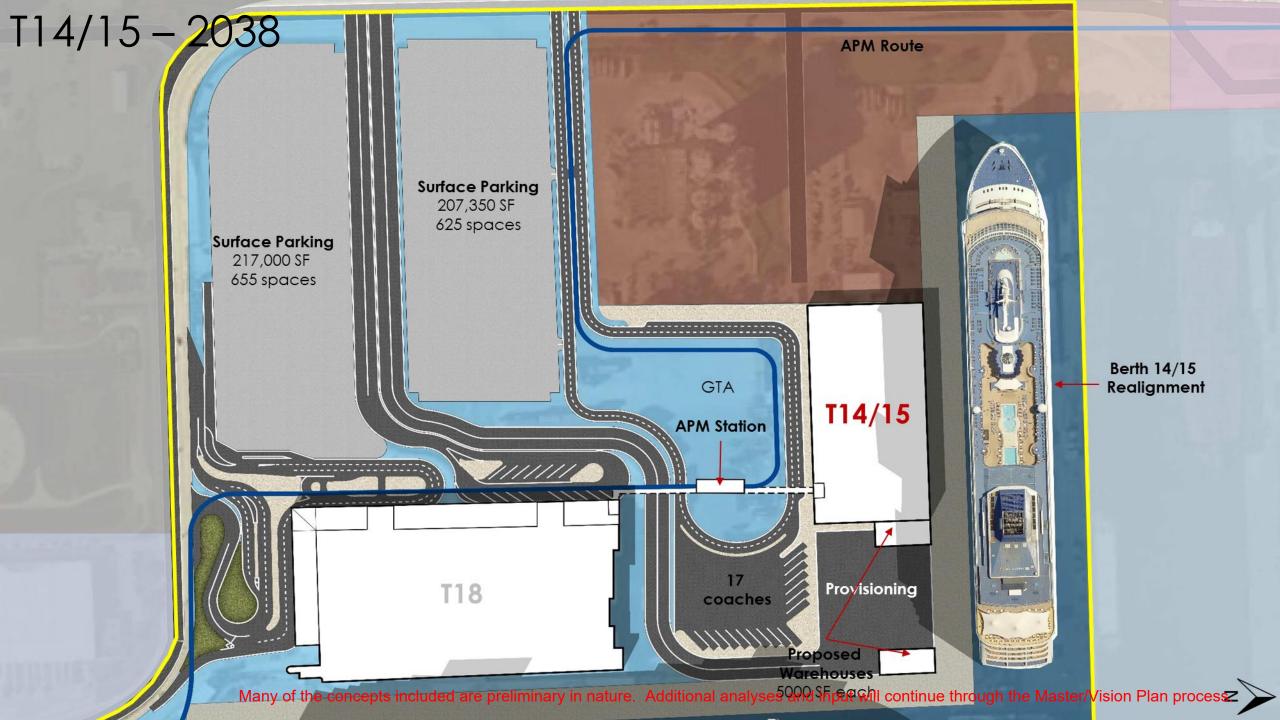
23



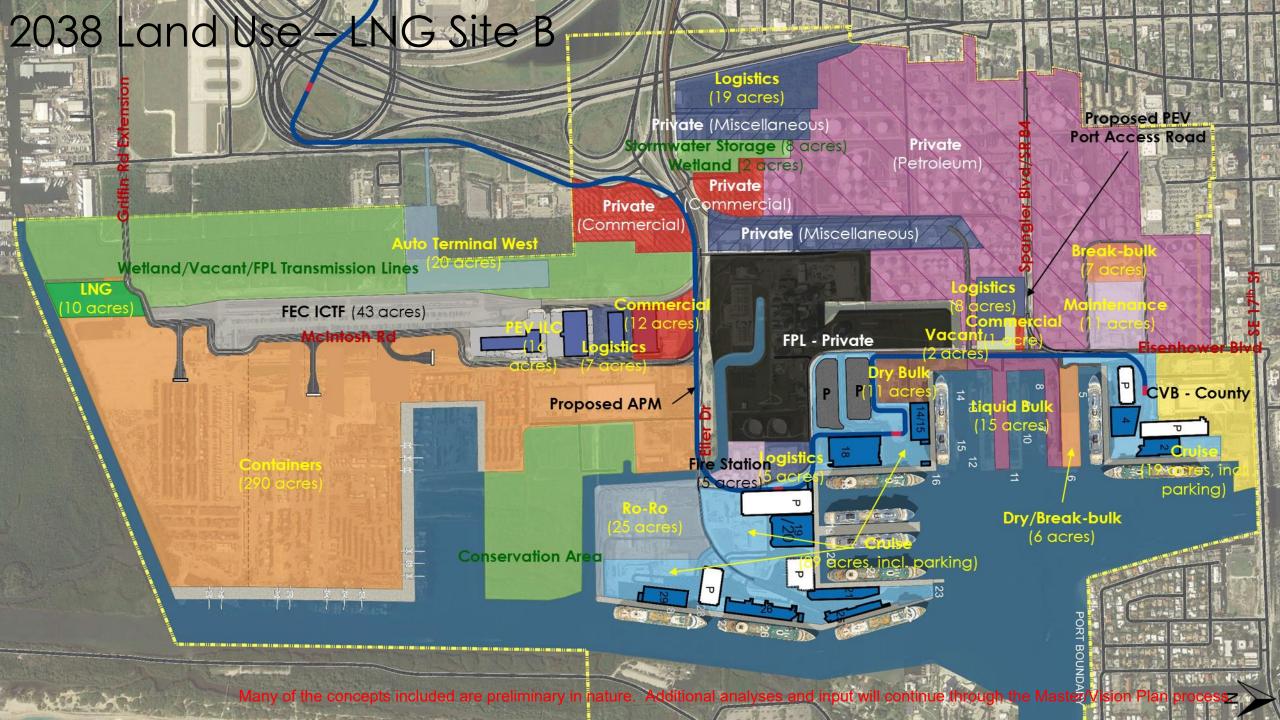












Immediate Next steps

- Phase 1
 - Phase 1 (Elements 1 and 2) final report delivered in October, 2018
- Phase 2
 - Future development concepts and projects
 - Berth and land demand for each line of business
 - Operational and infrastructure enhancements
 - Commercial and logistics opportunities
 - Traffic and parking
 - Financial evaluation
 - Final recommended plan
 - Strategies for implementation





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