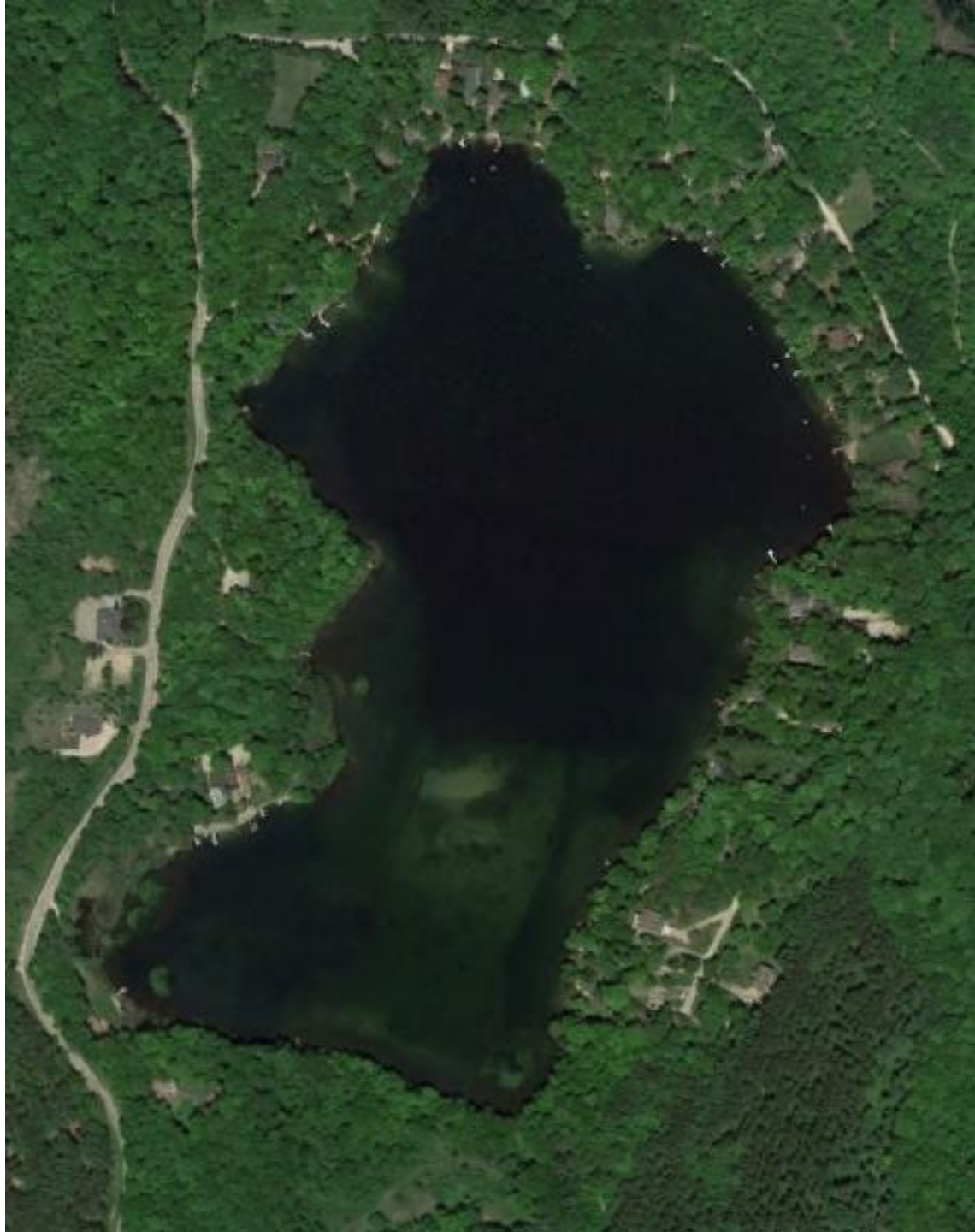
JLB ENGINEERING

FOREST LAKE BOAT RAMP MIDTERM MEETING



Scope

- Boat Ramp Design w/ Cost Estimate(s)
- Permit Guidance
- Potential Grant Opportunities
- Summarizing Report

- Questions/Concerns?

Alternative 1 – Status Quo

- Details
  - Leave situation as is
  - Not ideal, mainly for reference

Alternative 2 – Mobi-Mat

- Details
  - 20” stakes included
  - Available widths: 10’, 13.8’
  - Available lengths: 16.5’, 33’, 50’
  - Rated for 40,000 lbs/in2

- Cost Breakdown
  - 10’x16.5’: $2,953
  - 10’x33’: $5,125
  - 13.8”x33’: $8,146

- https://news3lv.com/news/local/adaptive-boat-ramp-launches-at-lake-mead

Alternative 3 – FAUN C-40 Trackway

- Details
  - Available widths: 11’, 13.75’
  - Length: customizable
  - Supports axle loads up to 28,655 lbs
- Cost Breakdown

		Length		
		20’	**30’**	**50’**
Width	**11’**	$16,000	$20,000	$21,000
	13.75’	$18,000	$23,000	$34,000

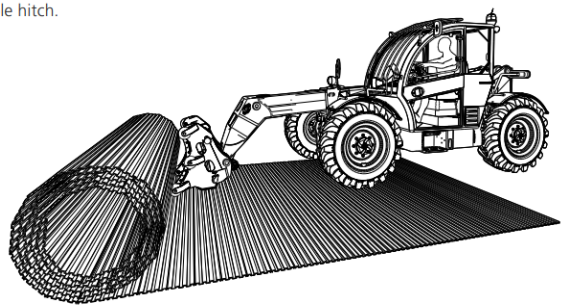
- https://vimeo.com/246431765?embedded=true&source=video_title&owner=20627751

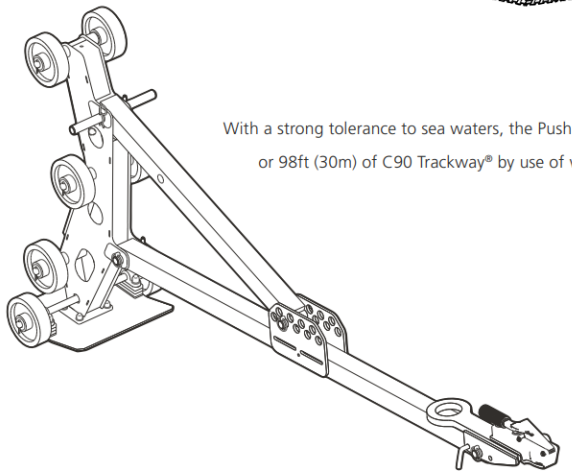
FAUN C40 Accessories

Parbuckling Strap

Pushframe

Designed to roll out and recover up to 164ft (50m) of C40 or C90 Trackway® rapidly, by use of a compatible host machine with a quick hitch or suitable hitch.





Pushbar

With a strong tolerance to sea waters, the Pushbar can deploy up to 131ft (40m) of C40 Trackway® or 98ft (30m) of C90 Trackway® by use of vehicle with a towing capacity of 7,716lb (3,500kg).

Potential Locations for Temporary Mat

- #1 – Gradual yard where previous launch was
- #2 – Launch on East side of wet area
    - Dredging potential
- #3 – David & Andrea Meurer's existing private grass ramp
- Others?

Alternative 4 – Wetland Excavation / Mitigation

- Details
  - Dredge to deepen existing channel
  - Flexamat Surface

- Cost Breakdown
  - Dredging: $17,000
  - Flexamat: $22,000
  - Gravel base: $800
  - Permitting:
    - application fee: $800
    - mitigation cost: $7,100
  - TOTAL: $47,500

Alternative 5 - Boardwalk

- Details
  - Supports 10,000 pounds
  - Treated Wooden Posts would be used for posts w/ 10’ wide alternative.
  - Most likely material would be concrete/wood composite
  - Through Permatrek
  - Would need gravel turnaround

- Cost Breakdown
  - Estimate would be $85/SF w/Treated Timber Foundation
  - General estimate would be around $200,000 for this magnitude

Potential Surveyor Analysis

- If permanent alternative is selected there would have to be a surveyor's analysis
- Assure work is being done on FLIA property
- Potential portion of site outside of wetland

Alternative Analysis

Any Questions?