

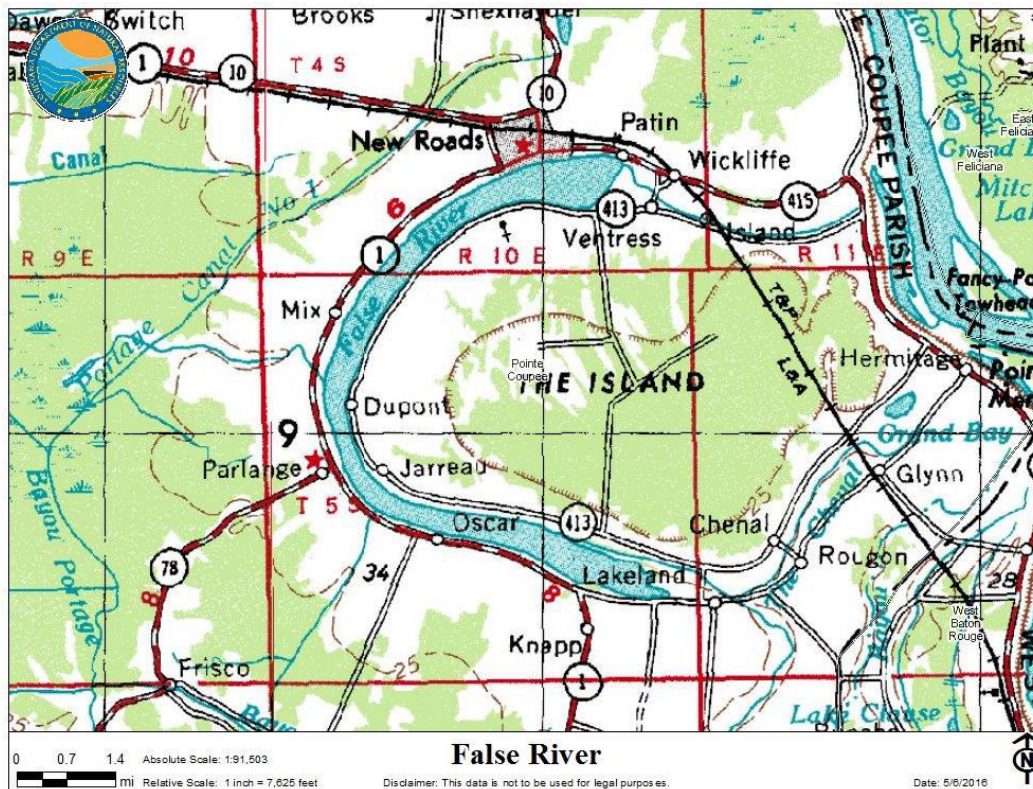


FALSE RIVER WATER LEVEL MANAGEMENT

FRWC Meeting | June 15, 2016

LDWF Inland Fisheries is recommending a water level reduction as a management effort to combat adverse effects of siltation and improve sportfish habitat.

False River water level is currently maintained at 14.8' NAVD.



Potential Benefits:

- ❑ Mimic natural water fluctuations & have several positive impacts on older/aging lakes:
 - 1) Increase sport fish production for reasons including the following:
 - a) Improved substrate for spawning habitat & aquatic vegetation growth
 - b) Improved pre-spawn body condition of predatory sport fish due to increased availability of forage



Potential Benefits:

- 2) Reduce accretion (filling in) of the lake by compacting sediments & decomposing organic matter, thus creating depth
 - Often requires multiple drawdowns to achieve significant sediment compaction
- 3) Reduce turbidity by consolidating exposed sediment



Procedures:

1. Fall/winter drawdown conducted from September 5, 2016 through January 15, 2017.
2. 30 day written notice will be sent to DOTD notifying them of the drawdown. LDWF will request their assistance with manipulating the control structure.
3. Lake level reduction will be achieved by lowering the lake level at a rate of 1.5” per day until level is reached.
4. Lake will be allowed to naturally refill.

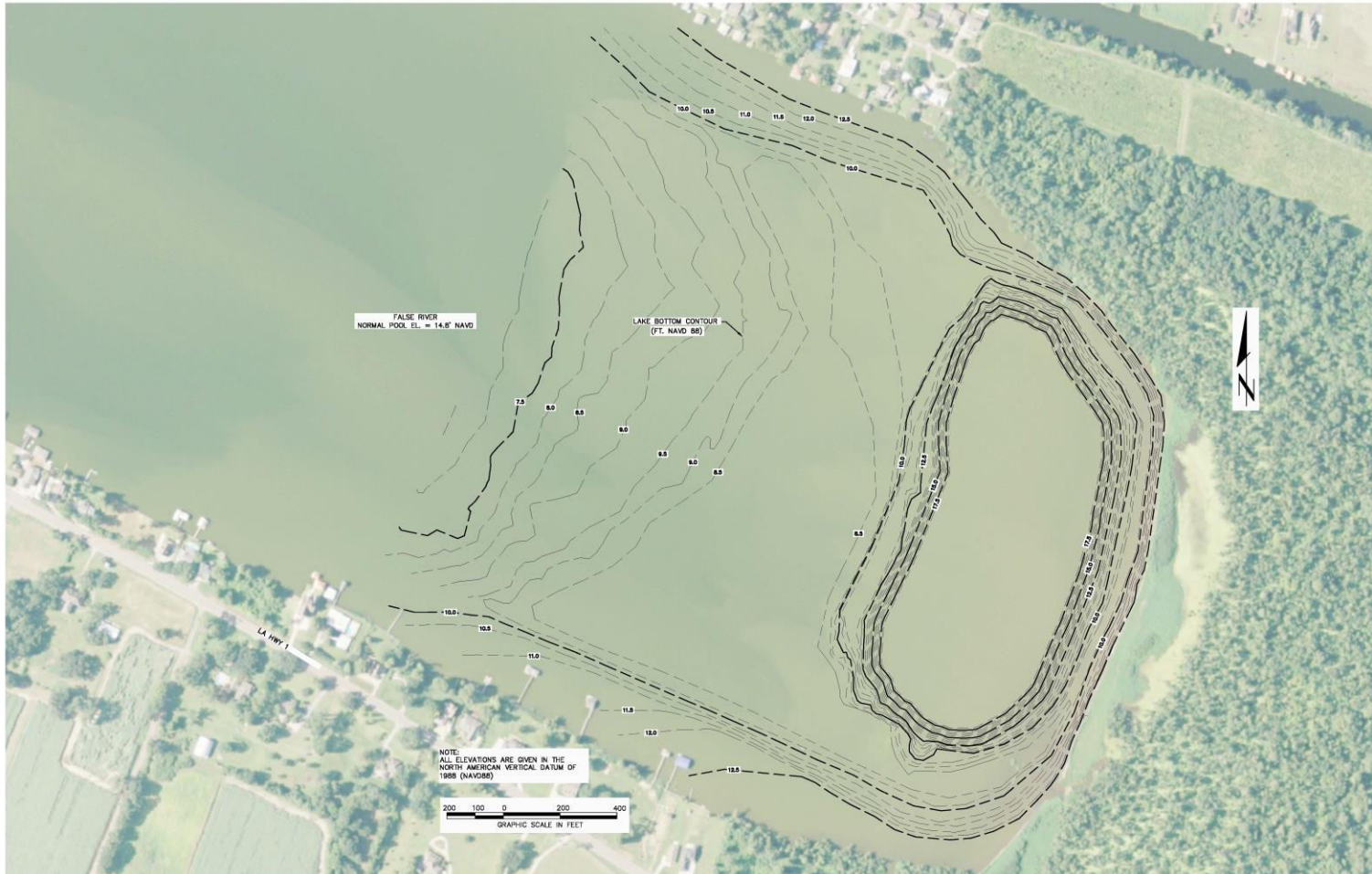


Lake bottom exposure will be particularly apparent in the north and south flats. Six feet below pool elevation (8.8' NAVD) will expose ~ 197 & 72 acres in the north and south flats, respectively, for a total of 269 acres combined.

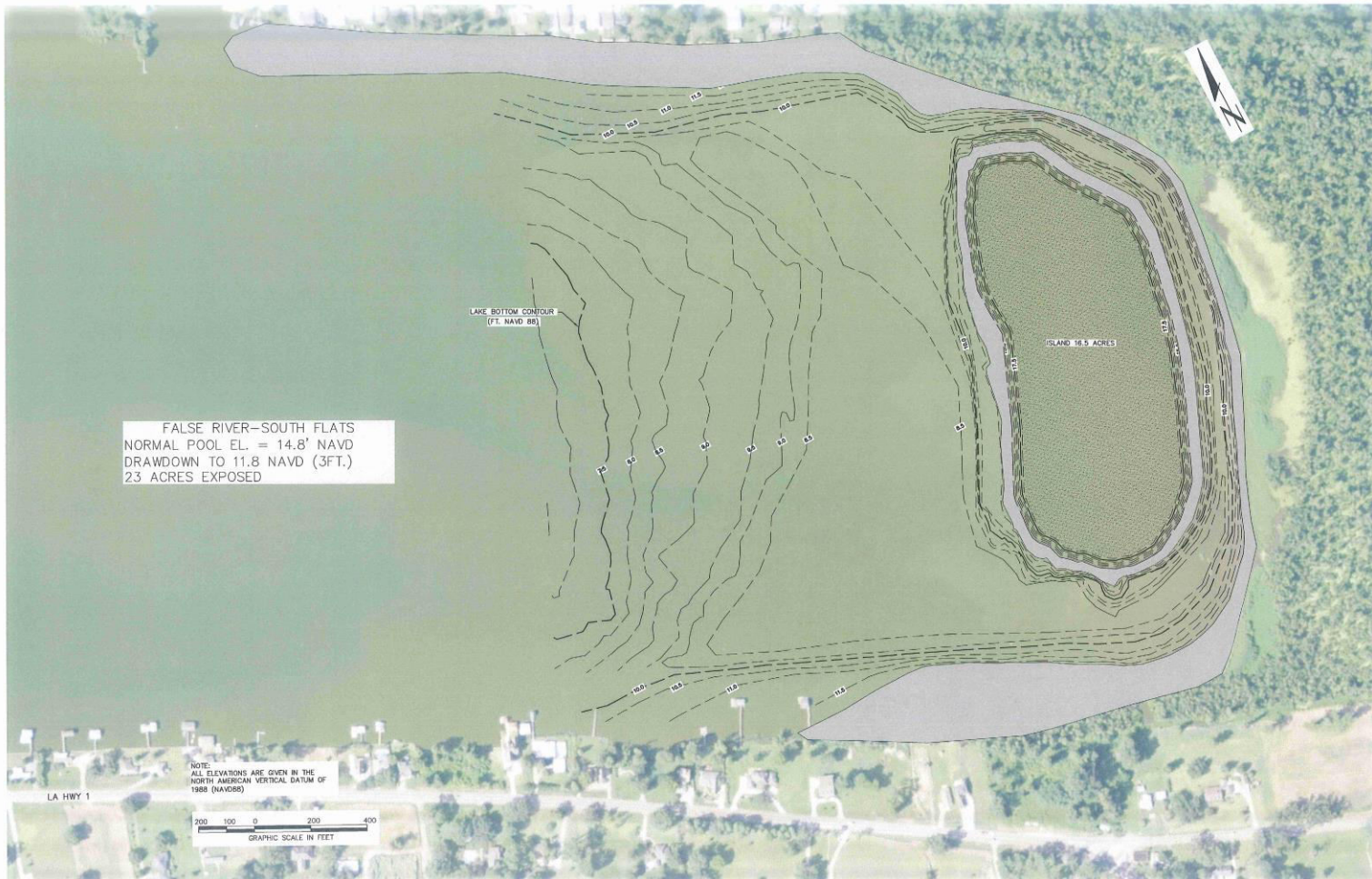
- Exposure at alternate levels:
 - 5 ft (9.8' NAVD) – 196 acres
 - 4 ft (10.8' NAVD) – 113 acres
 - 3 ft (11.8' NAVD) – 42 acres



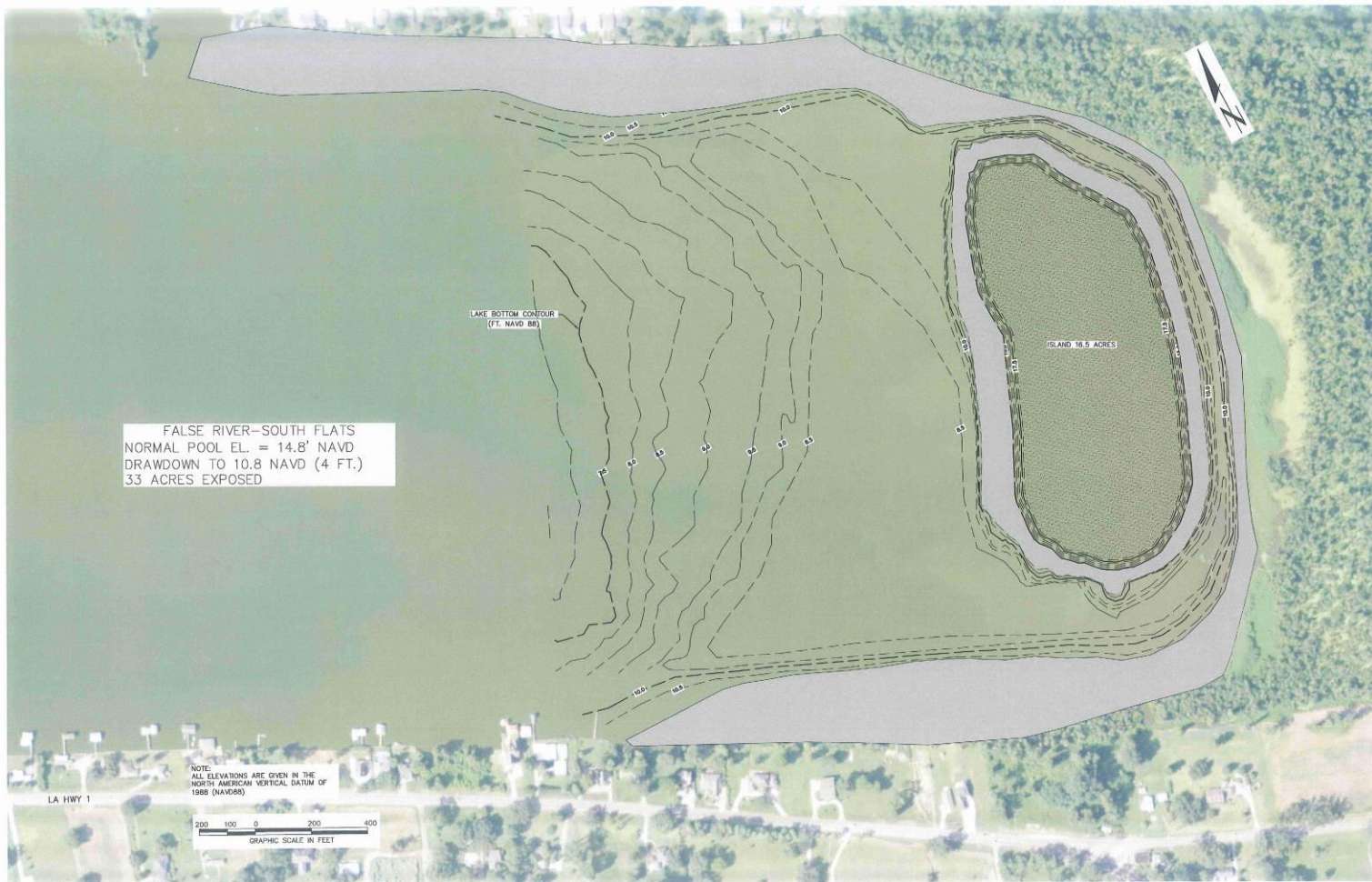
South flats @ 14.8' (normal pool)



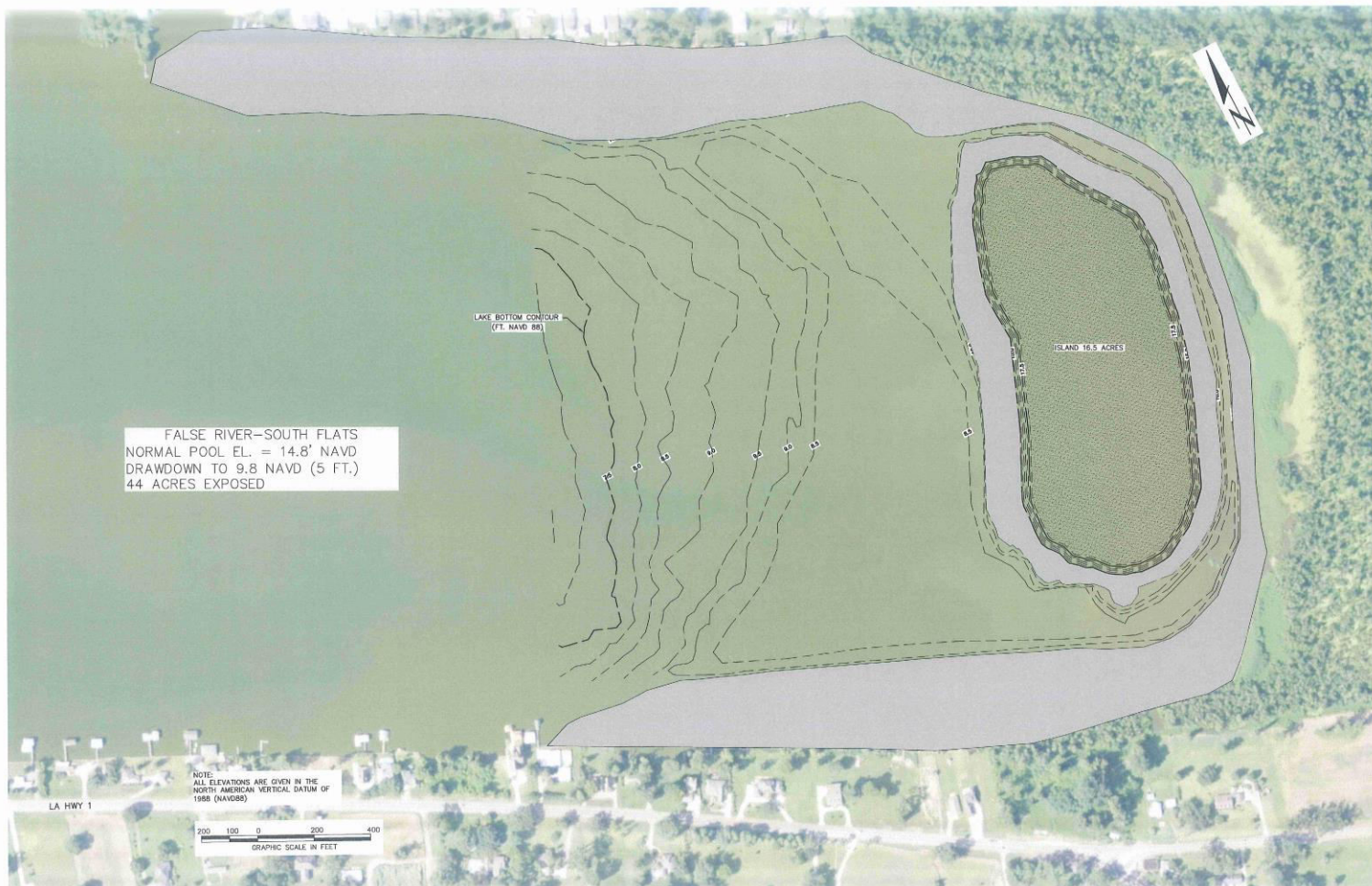
South flats @ 11.8' (3' reduction)



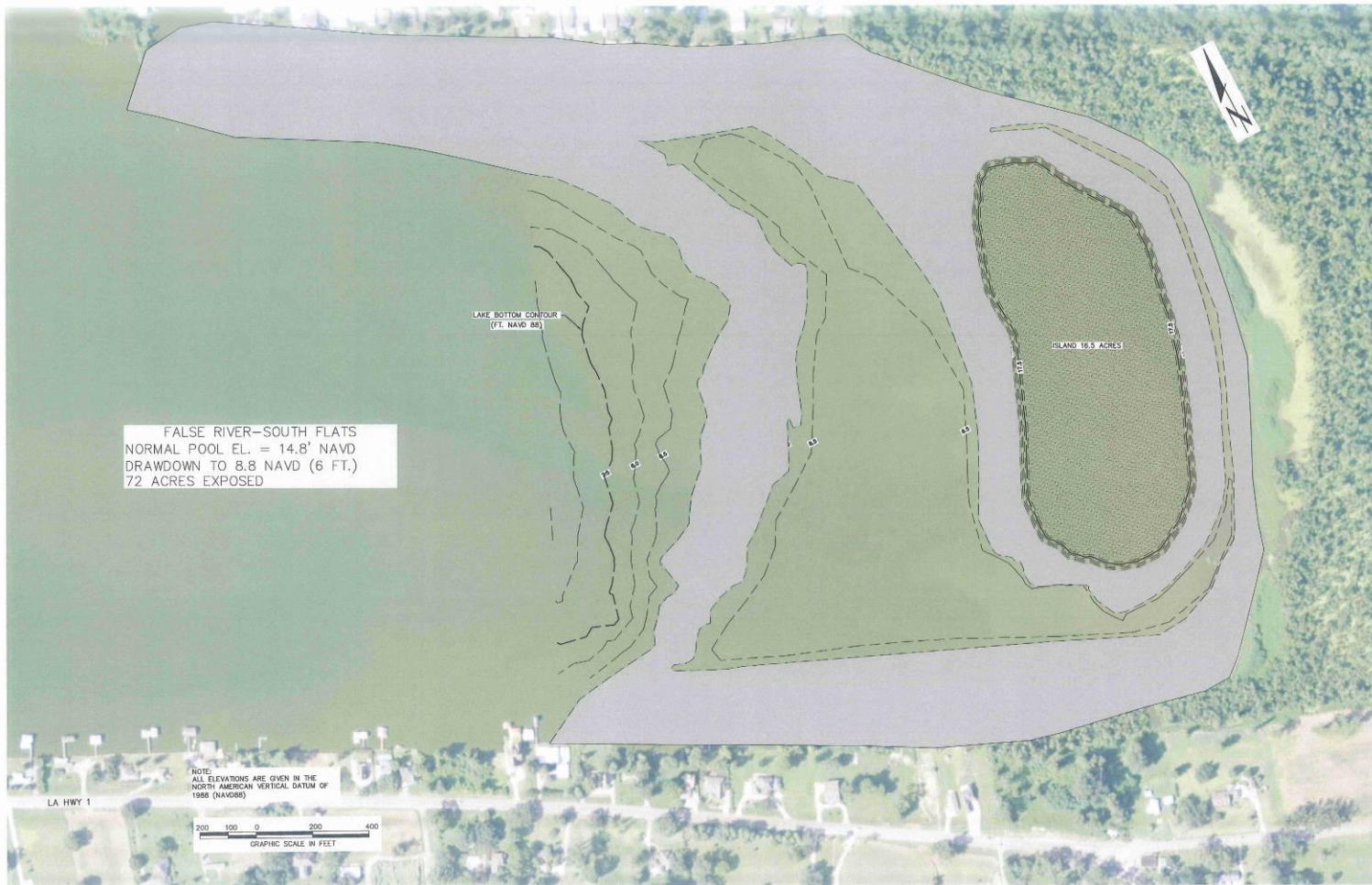
South flats @ 10.8' (4' reduction)



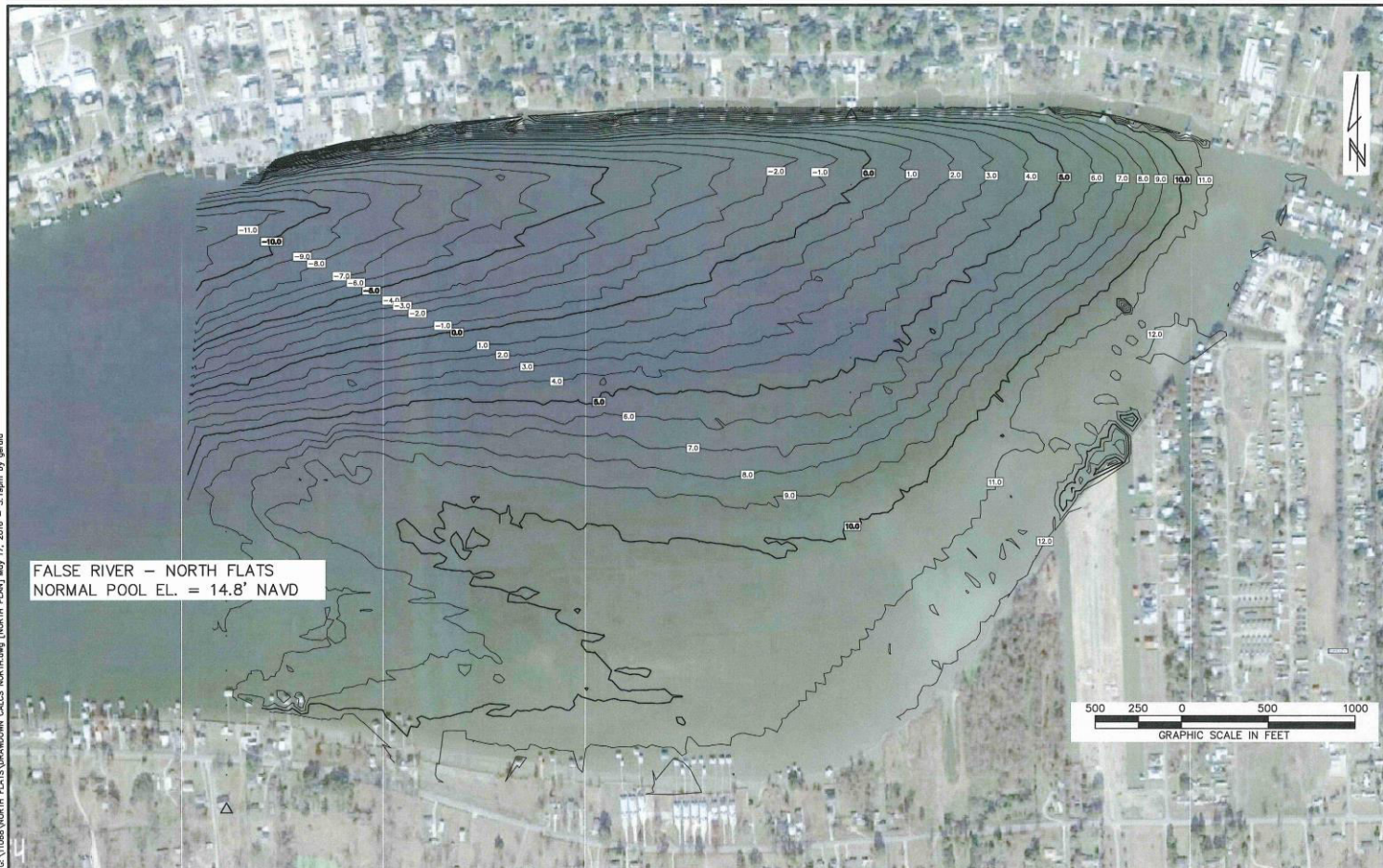
South flats @ 9.8' (5' reduction)



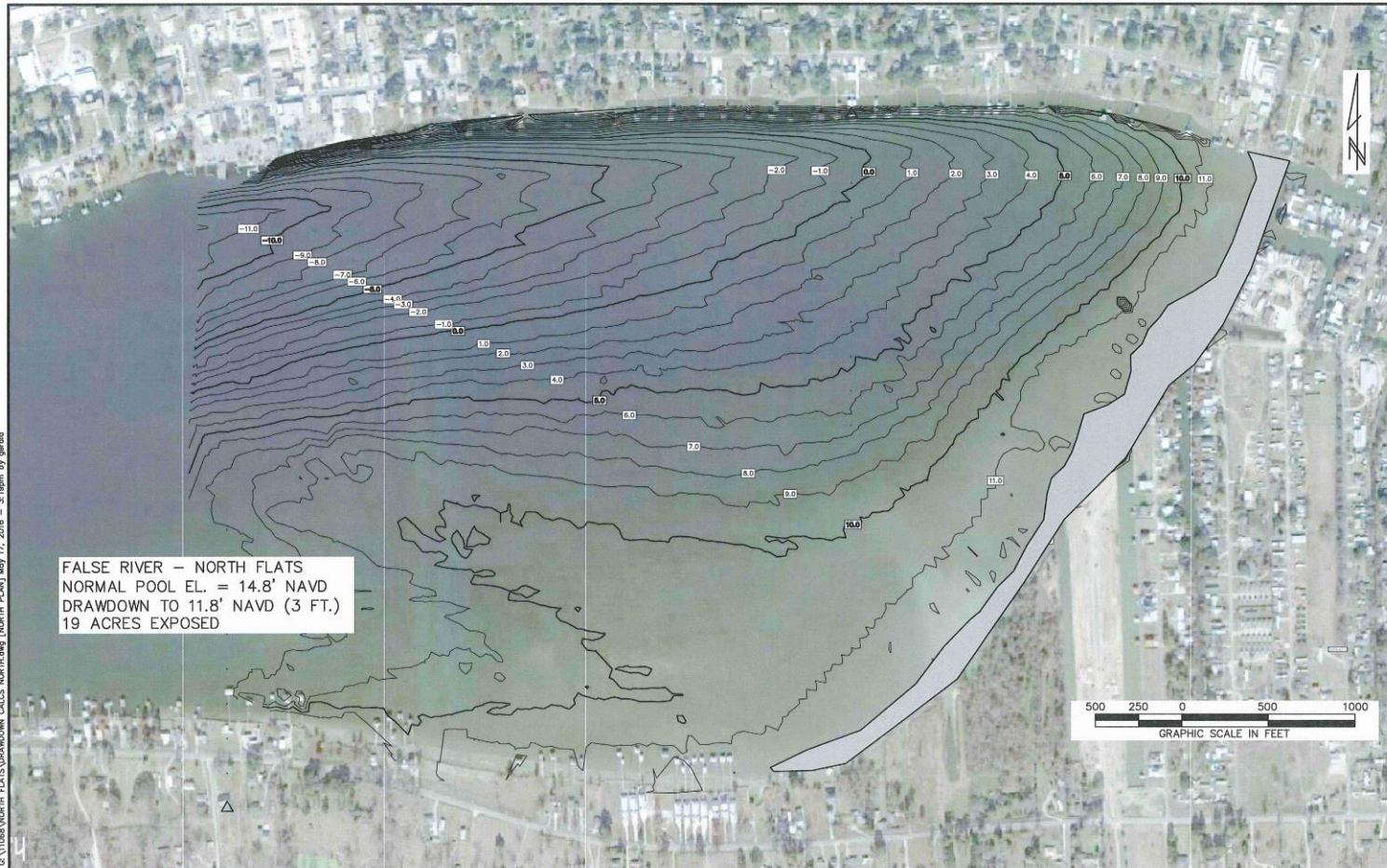
South flats @ 8.8' (6' reduction)



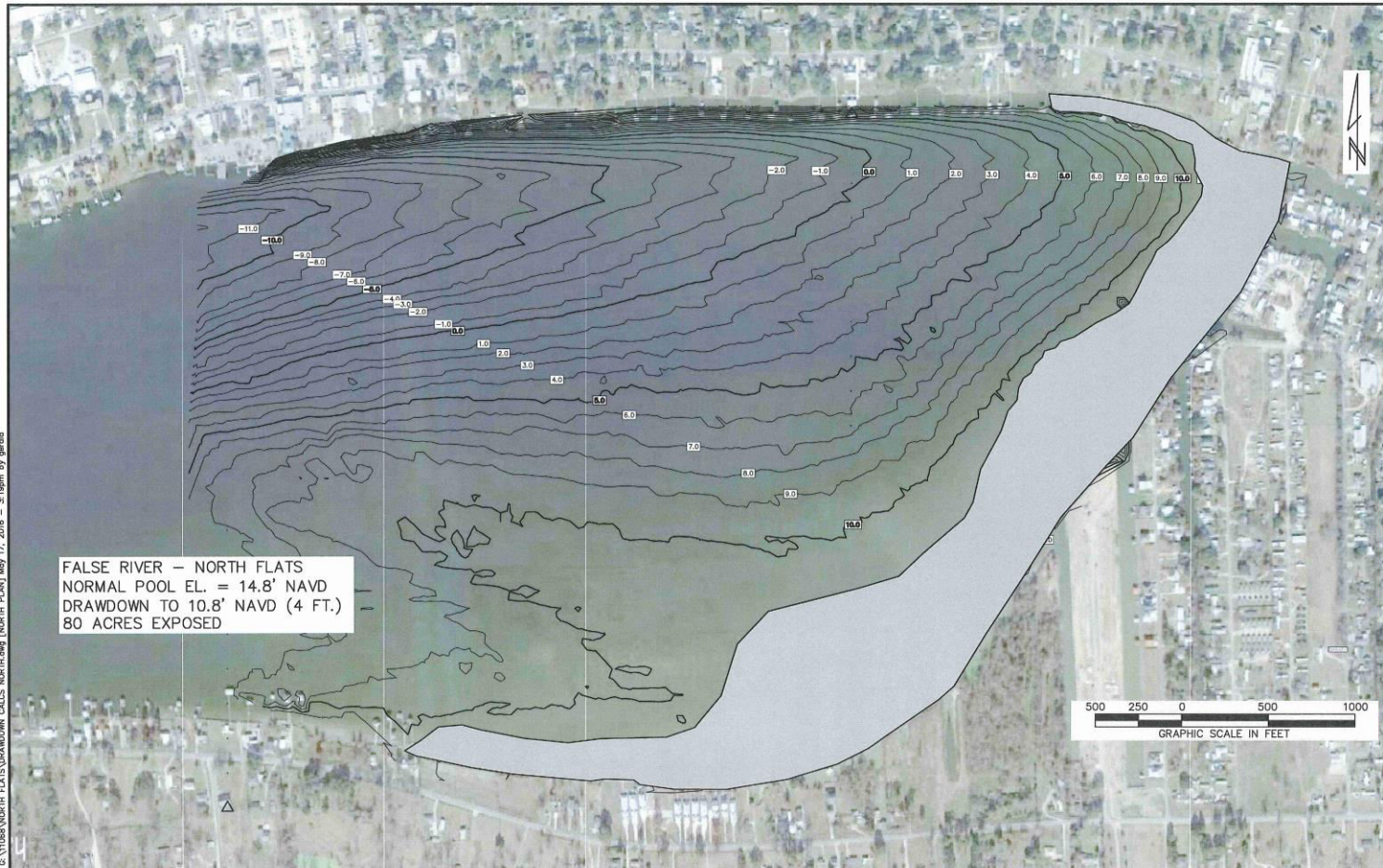
North flats @ 14.8' (normal pool)



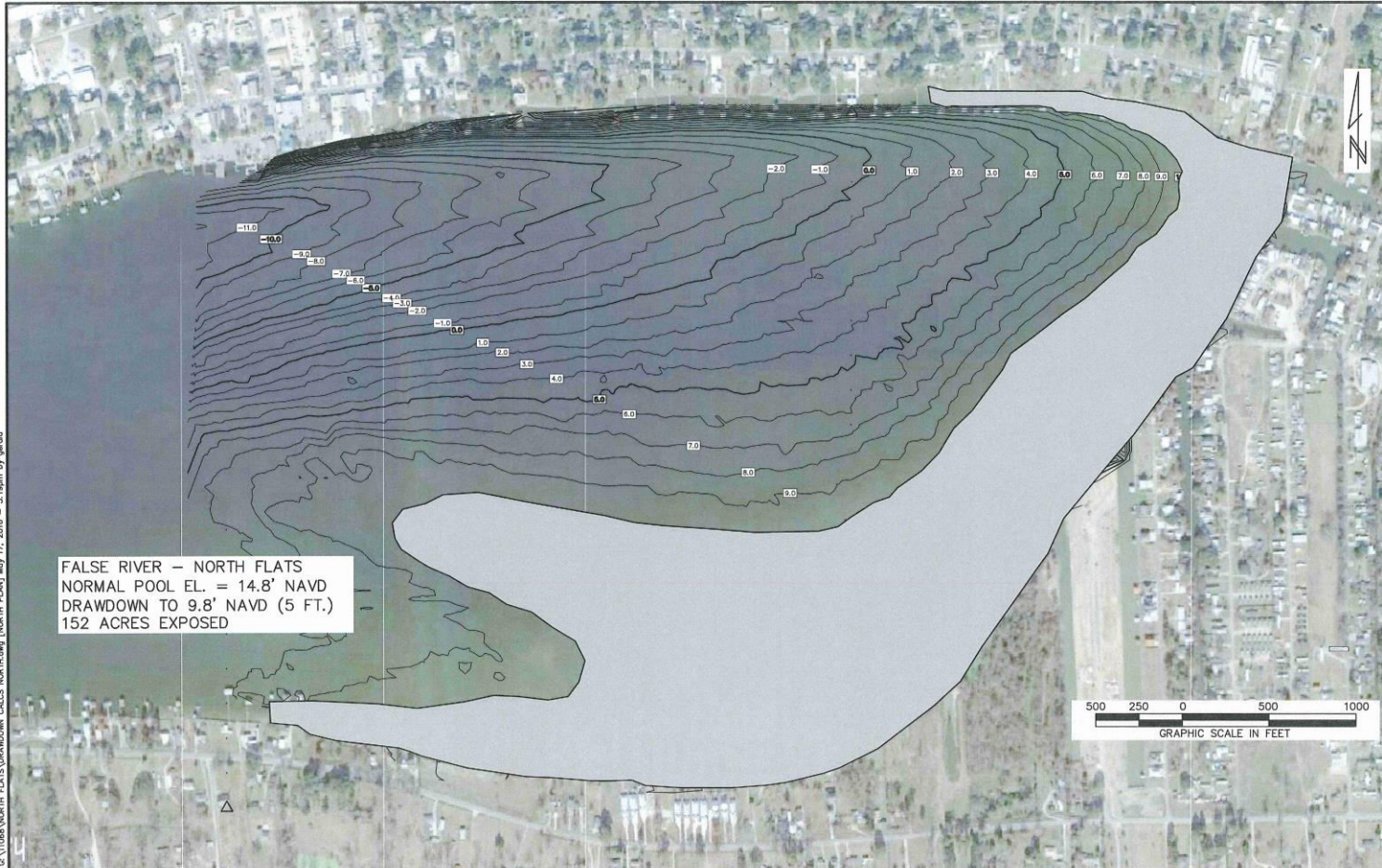
North flats @ 11.8' (3' reduction)



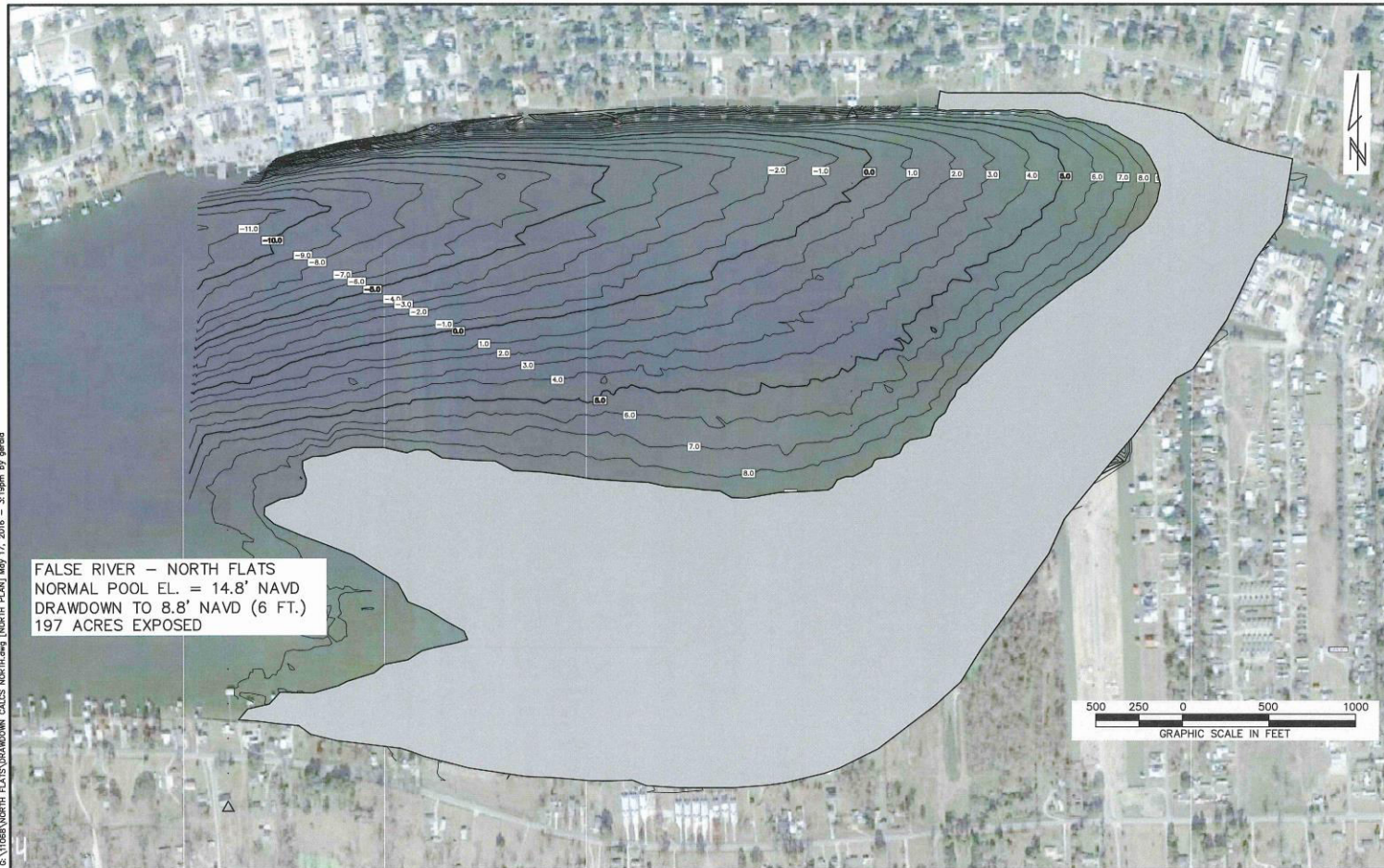
North flats @ 10.8' (4' reduction)



North flats @ 9.8' (5' reduction)



North flats @ 8.8' (6' reduction)



- ❑ LDWF's recommendation is a lake level reduction to a target of six (6) feet below pool elevation / 8.8' NAVD.
- ❑ Fish population monitoring, especially nesting fishes, will be ongoing to track long-term effects
- ❑ Vegetative type-mapping will be performed to monitor density & abundance
- ❑ Public meetings/involvement important component

