

# Orange Memorial Park Aquatic Center

City Council Meeting

June 14, 2023

Updated Design Development Presentation



# UPDATE

- Pool Design Priorities
- Learn-to-Swim Program
- Swimming & Water Polo Requirements vs. Recommendations
- Pool Depth Options
  - Outdoor Pool
  - Indoor Pool
- Entry Signage

# POOL DESIGN PRIORITIES

- Learn-to-Swim
- Lap Swim
- Fitness Classes
- Recreational Swim
- 25 Yard Competitions
- Water Polo
- Safe, Sustainable and Efficient Operations
- Fun Water Features
- Long-term Flexibility

# LEARN-TO-SWIM PROGRAM WAITLISTS

## Summer 2022 Waitlist

- Infant, Toddler Preschool: 168
- Level 1, 2, & pre-basic (Shallow water): 596 (1583)
- Level 3-5 (deep water): 87 (139)
- Adult Lessons: 74
- Exercise Classes: 46

Number in parenthesis is the number of people waitlisted for multiple classes.

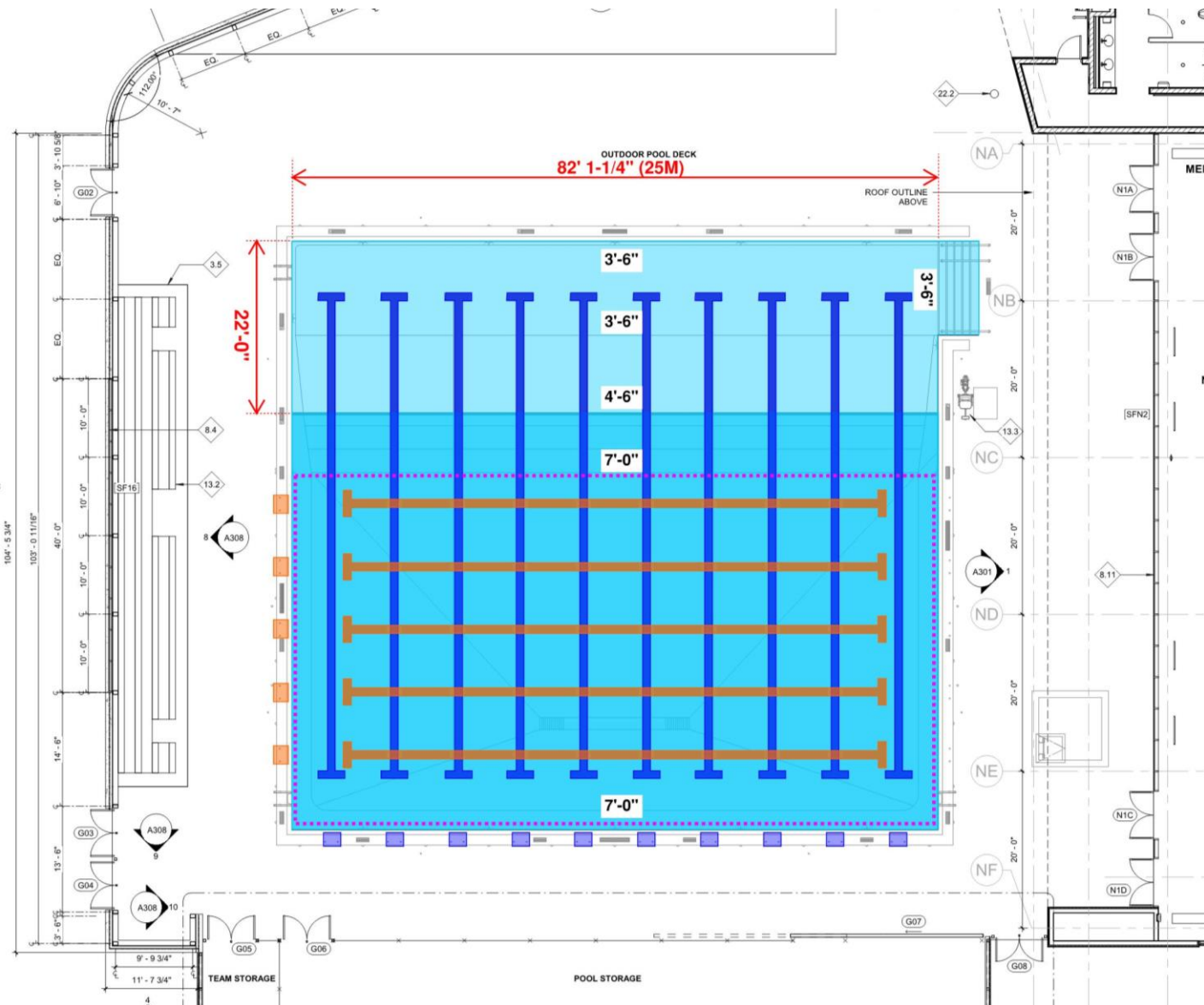
# REQUIREMENTS & RECOMENDATIONS

	Minimum by USA Swimming	Recommended by USA Swimming	Allowed
Starting Blocks Depth	4'	6'	California Building Code requires minimum 6' depth for diving, 6'-6" is recommended depth for safety
Flip-Turn Depth		4'	3'-6"
Lane Width	7'	8' - 9'	
Number of Lanes	6	8	
	Minimum by NFHS	Recommended by NFHS	Allowed
Water Polo Depth		6'-6"	6'-0" minimum is recommended
Water Polo Size	Width: 45'-66' Length: 25M or 25YD		
25YD Course	25YD course meets are the most common for all age groups and is the standard for high school, USA Swim and NCAA swim meet short course in the United States		
25M Course	ADG is unaware of any meets held in the 25M direction. The advantage to a 25-meter course is that the ultimate race length is the same as a long course olympic event - such as 1000 meters. The times vary greatly because of the extra turns. The most common user of a 25-meter swim would be masters swimming that was used to swimming 25-meters years ago.		



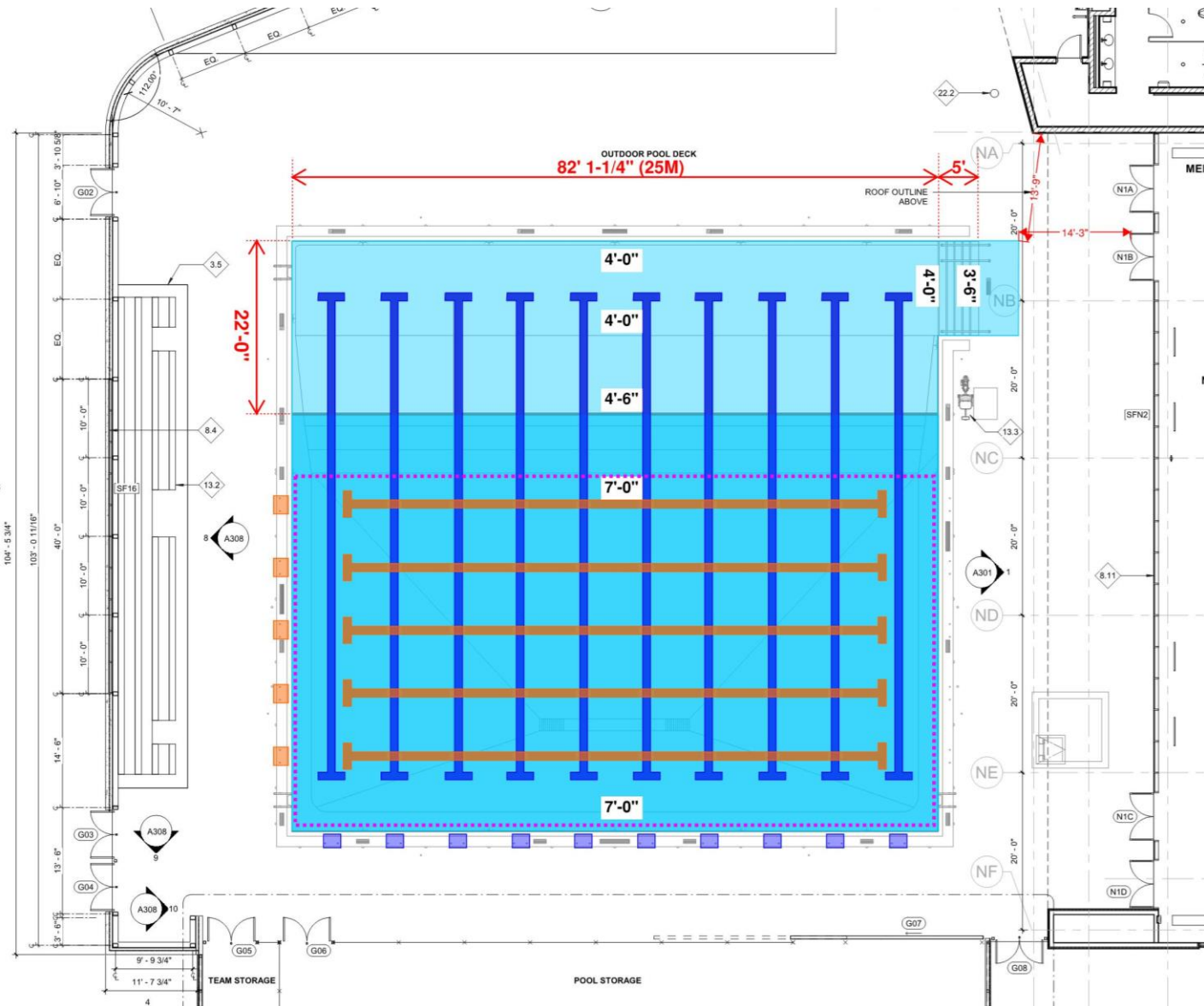
## CURRENT POOL DESIGN

- STARTING BLOCKS
  - (10) 8' WIDE LANES IN 25YD
  - (5) 8' WIDE LANES IN 25M
- WATER POLO COURSE WITH WALL MOUNTED GOALS (25M x 45')
- SHALLOW END (22' wide by 25M long, Area 1800 sf)
  - Recreation Swim: 90 by code, but...
  - Learn-to-Swim – 30 minutes
    - Up to five level 1 (30)
    - Up to two level 2 (12)
    - One level 3 (8)
    - One level 4 (10)
    - One level 5 (10)
    - About 70 students per half hour, could change depending on what classes are being offered.

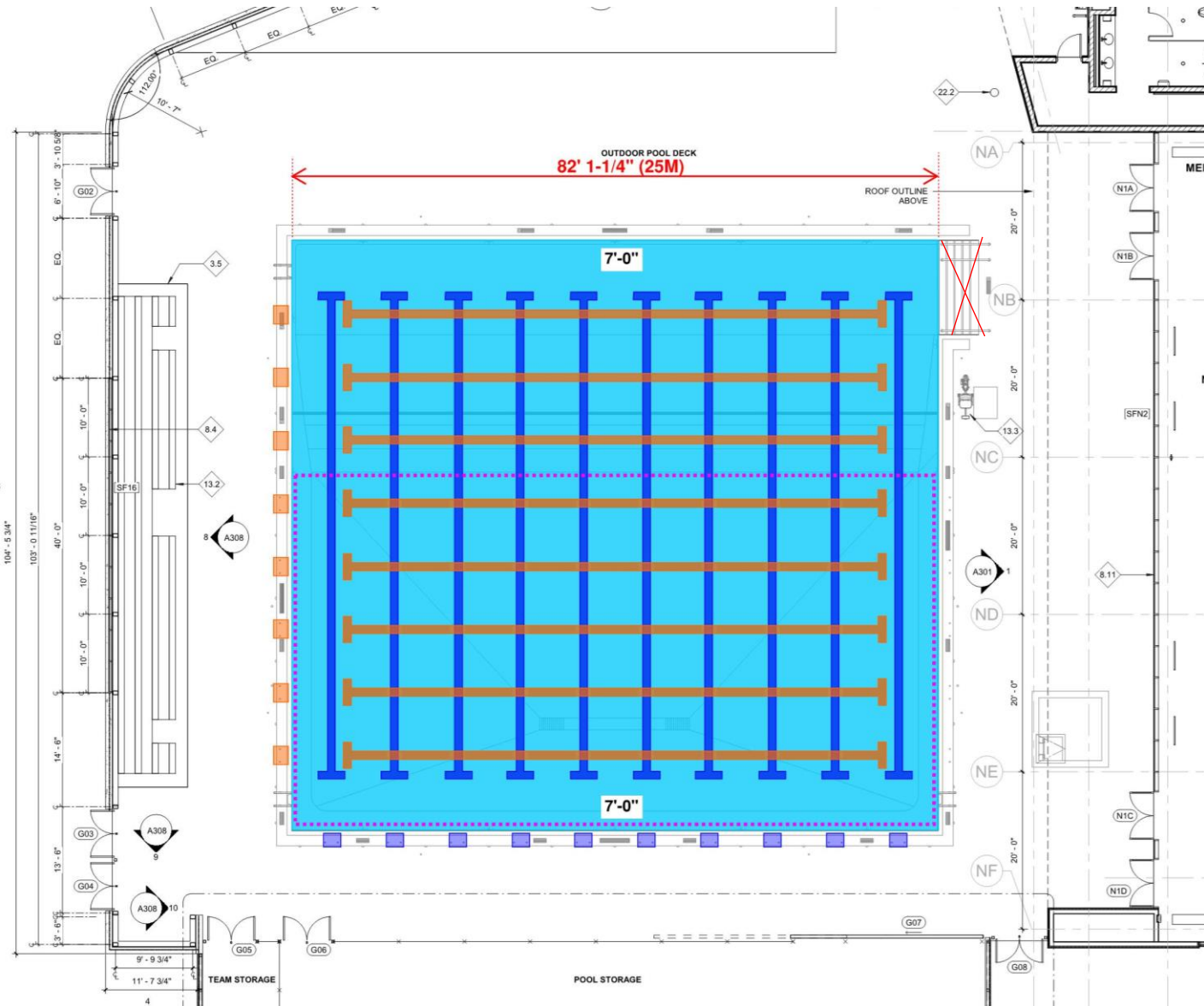


## 4'-0" SHALLOW END OPTION

- STARTING BLOCKS
  - (10) 8' WIDE LANES IN 25YD
  - (5) 8' WIDE LANES IN 25M
- WATER POLO COURSE WITH WALL MOUNTED GOALS (82'x45' / 25M x 14M)
- ENTRY STAIR IS LENGTHENED BY 5'
  - Recreation Swim: Same as previous slide
  - Learn-to-Swim – Similar to previous slide
  - Exercise classes could take place at the same time



# ALL DEEP OPTION WITHOUT STEPS

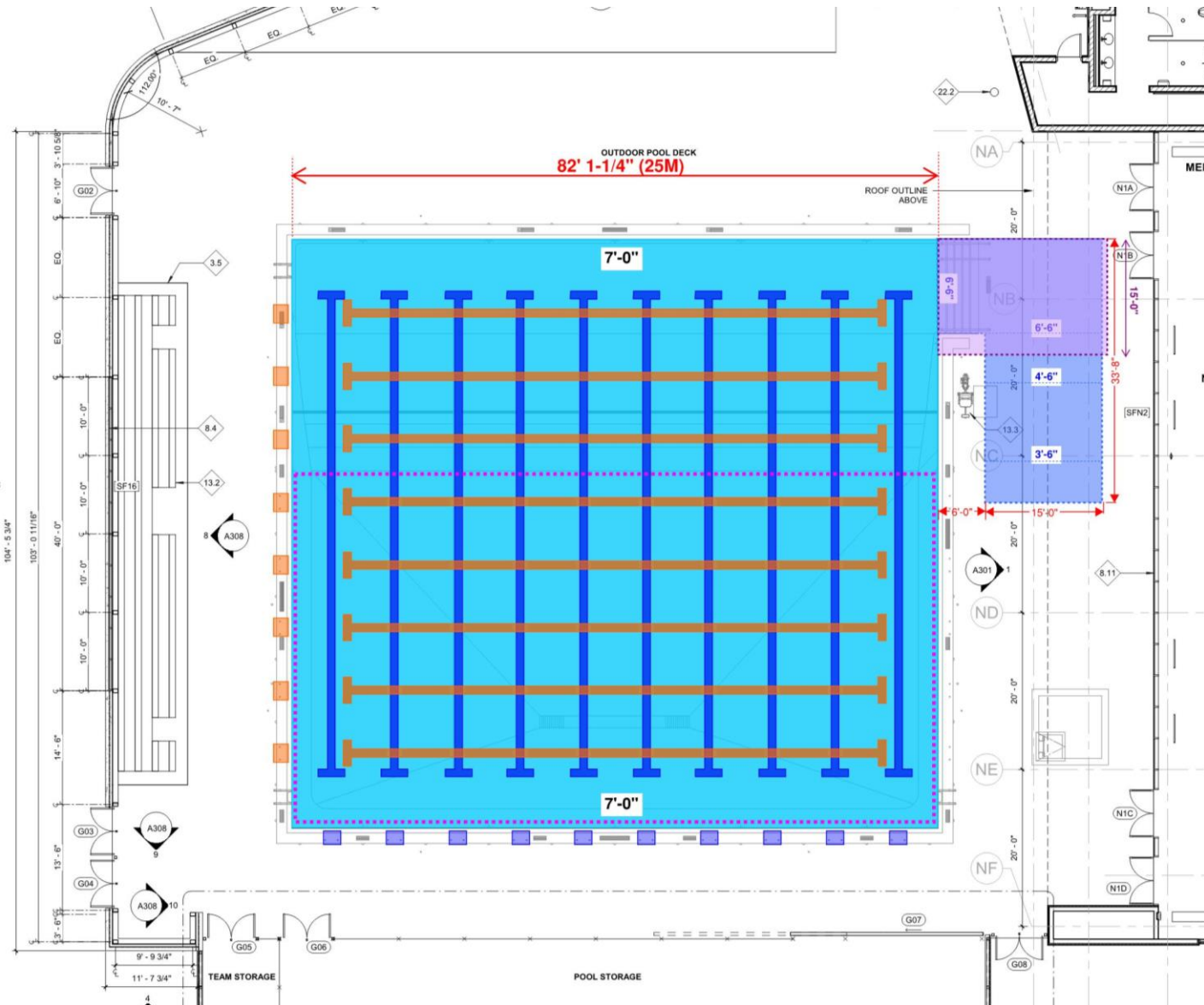


- STARTING BLOCKS
  - (10) 8' WIDE LANES IN 25YD
  - (8) 8' WIDE LANES IN 25M
- WATER POLO COURSE WITH WALL MOUNTED GOALS (25M x 45')
- SPECIAL PURPOSE POOL
  - DEFINITION PER CBC:
    - "IS A POOL CONSTRUCTED EXCLUSIVELY FOR A SPECIFIC PURPOSE, SUCH AS INSTRUCTION, DIVING, COMPETITION, OR MEDICAL TREATMENT"
  - COUNTY HEALTH MAY REQUIRE LETTER FROM THE CITY STATING THAT THE POOL IS SPECIAL PURPOSE AND IS COMMITTED TO ONLY ALLOW CERTAIN USES IN THE POOL
  - PORTABLE STEPS DO NOT MEET CODE AND PORTABLE STEPS THAT GO DOWN TO 7' DEPTH DO NOT EXIST
- REQUIRES SLIGHTLY LARGER FILTER TANKS FOR ADDITIONAL WATER VOLUME
- INCREASED SOIL MITIGATION COSTS



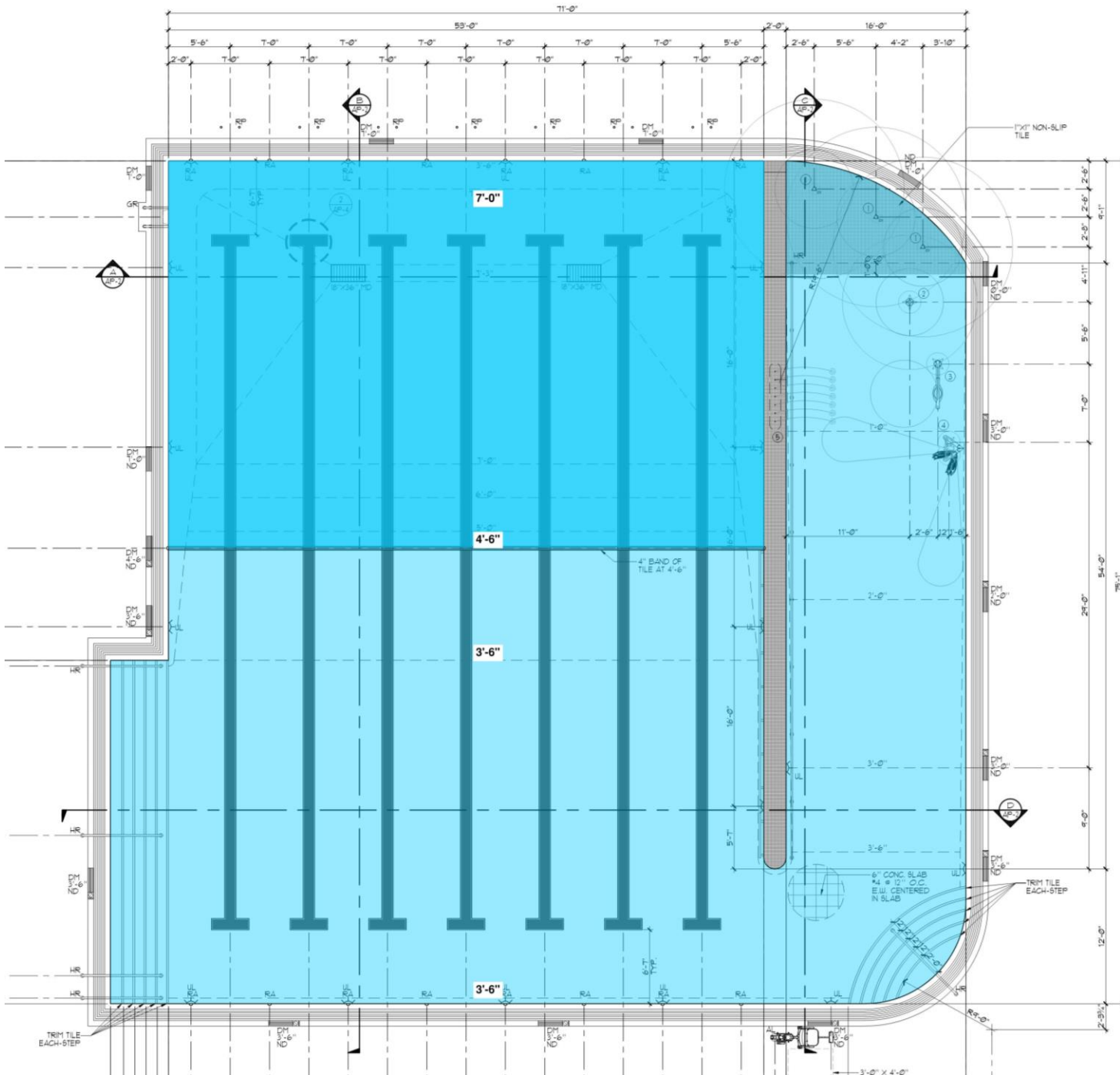
## ALL DEEP OPTION WITH STEPS

- STARTING BLOCKS
  - (10) 8' WIDE LANES IN 25YD
  - (8) 8' WIDE LANES IN 25M
- WATER POLO COURSE WITH WALL MOUNTED GOALS (25M x 45')
- REQUIRES SLIGHTLY LARGER FILTER TANKS FOR ADDITIONAL WATER VOLUME
- ~\$500K COST IMPACT



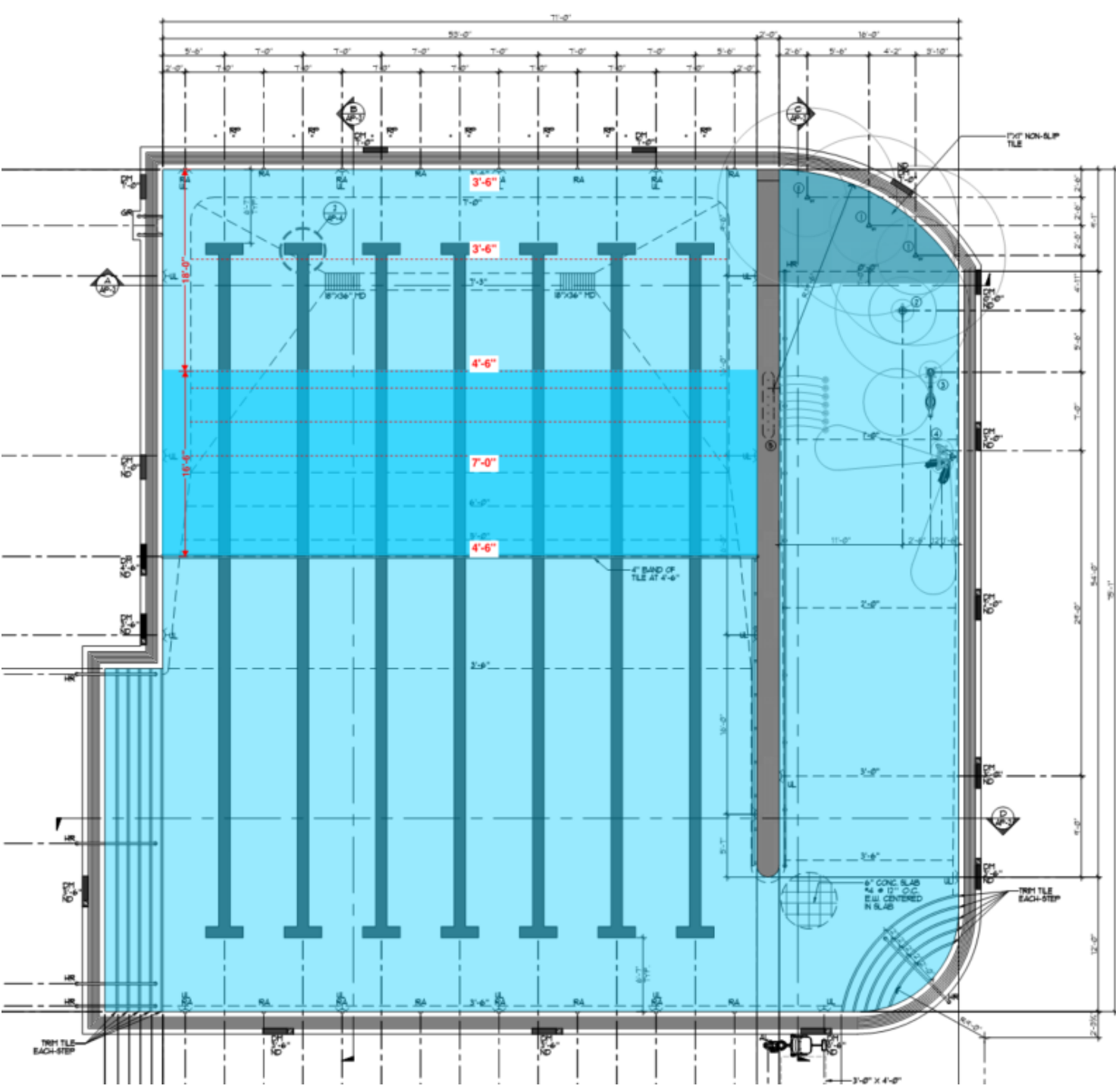
## STAFF RECOMMENDATIONS: OUTDOOR POOL

Staff recommends either Option 1 or Option 2 for the outdoor pool as these designs provide a shallow area no deeper than 4' which allows the pool to be programmed for learn-to-swim and recreational swim while meeting the requirements for swim competition in the 25-yard direction and maintains the required depth and area for water polo at the high school, club and collegiate level.



## CURRENT DESIGN

- Recreation Swim
  - Easily defined area for individuals who pass swim test
  - Ideal for monitoring and safety
  - Offers wide range of inflatable options
- Learn-to-Swim
  - Multiple location opportunities for diving instruction
  - Clearly defined area for advanced levels
- Lap Lanes
  - Opportunity for diving blocks
- Fitness Programs
  - Large area for aqua zumba and water aerobics
  - Large area for water exercise and deep-water treading



## DIVIDED SHALLOW ENDS

- Recreation Swim
  - Presents crowded deep water when pool is split for lap swimming and recreation swim
  - Requires additional staff and creates safety challenges
  - Removes options for inflatables
- Learn-to-Swim
  - Adds more shallow water for lower levels
  - Creates only one location for teaching diving
- Lap Lanes
  - No diving blocks

## STAFF RECOMMENDATIONS: INDOOR POOL

It is the recommendation of staff that the indoor pool depth remain as presented in the design development package with a single 3'-6" shallow end and a 7' depth deep end to allow for a wide range of programs, opportunities for starting blocks and safety.



ORANGE MEMORIAL PARK AQUATIC CENTER

# SCHEDULE

Design Review Board Update	June
Planning Commission	TBD
<b>Design Documents Complete</b>	<b>Summer 2023</b>
<b>Bid/Award</b>	<b>December 2023</b>
<b>Start Construction</b>	<b>January 2024</b>
<b>Pool Opening</b>	<b>Spring 2025</b>
<b>Full Project Completion (Demo/Sitework Complete)</b>	<b>Summer 2025</b>



OUTDOOR POOL DECK

NATATORIUM

LOBBY

POOL STORAGE