

OAK PARK AND RIVER FOREST HIGH SCHOOL

POOL

PROGRAM VERIFICATION

Design Update

September 24, 2015



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40 POOL EQUIPMENT LIST





ERIE STREET

TENNIS COURTS

BALL FIELDS

STADIUM

OPRFHS

SITE

LAKE STREET

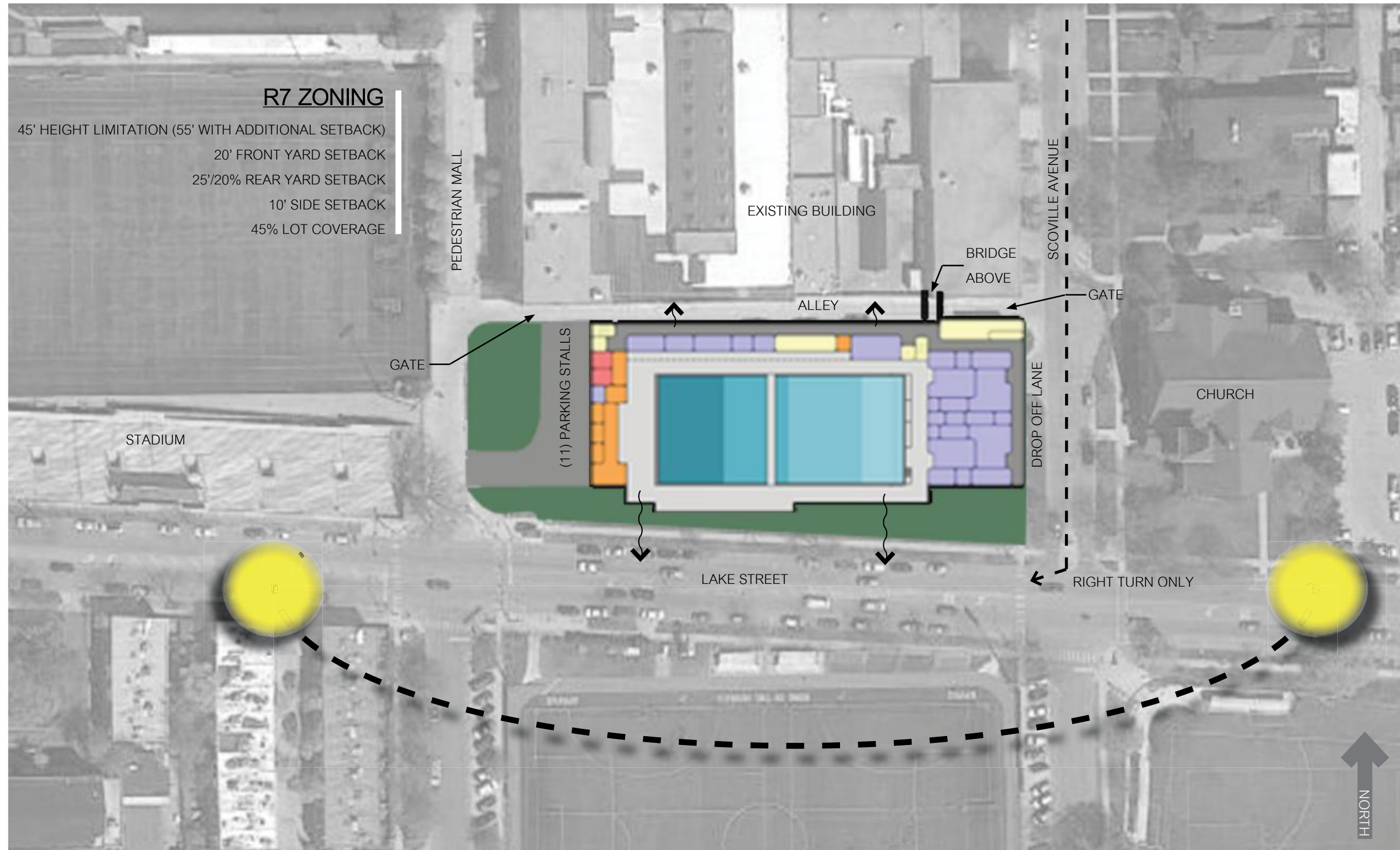
LAKE STREET FIELDS

LINDEN AVENUE

THE MALL

SCOVILLE AVENUE

EAST AVENUE

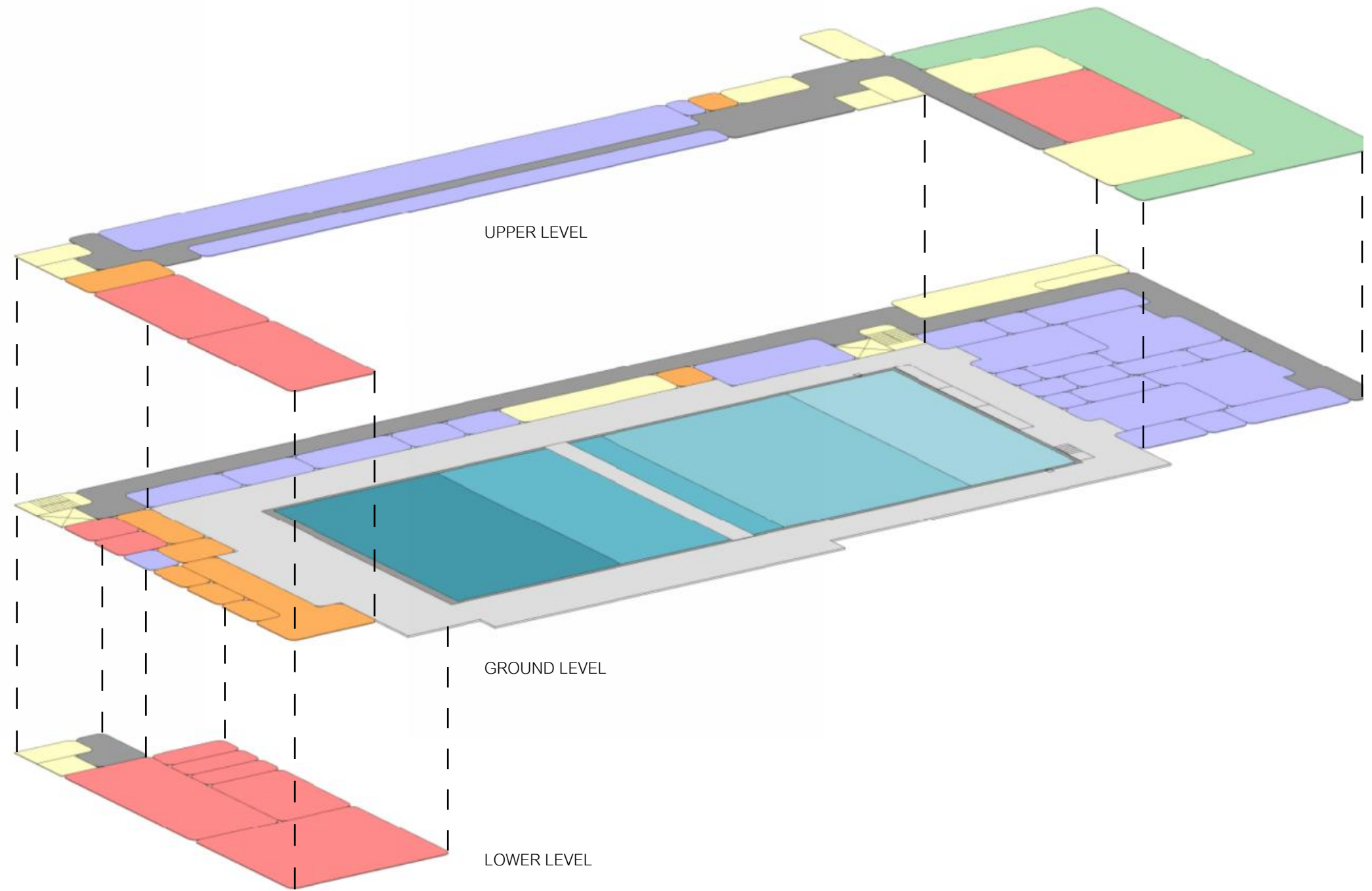


SITE ANALYSIS

The proposed aquatics center runs parallel with Lake Street with an east-west building orientation to optimize energy efficiency. The alley between the existing building and parking garage could remain to preserve the existing underground utilities and allow vehicular access between the existing building and the pool addition for buses, ambulances and other school support vehicles. A second floor pedestrian bridge could span over the service drive which would provide Student access to the new facility. This bridge would align with a new interior corridor to be constructed in the existing building between the East Pool/Weight Room and the South Gym. Security gates would be installed at the east and west ends of the alley to control access. At the east end of the site, a drop off lane could be created along the addition entrance. Scoville Avenue would provide one-way access travelling south and terminate with a right turn only on Lake Street. At the west end of the site, (10) parking stalls and (1) ADA parking stall could be created to support the school's passenger buses, vans and security vehicles. Parking stalls could be screened from Lake Avenue with the building or landscaping elements. The building could step from the south to the north to open up views of the east Church and west Stadium from Lake Street. Opportunities for views into the facility from Lake Street can be explored to allow the community to see the activity taking place inside the facility.



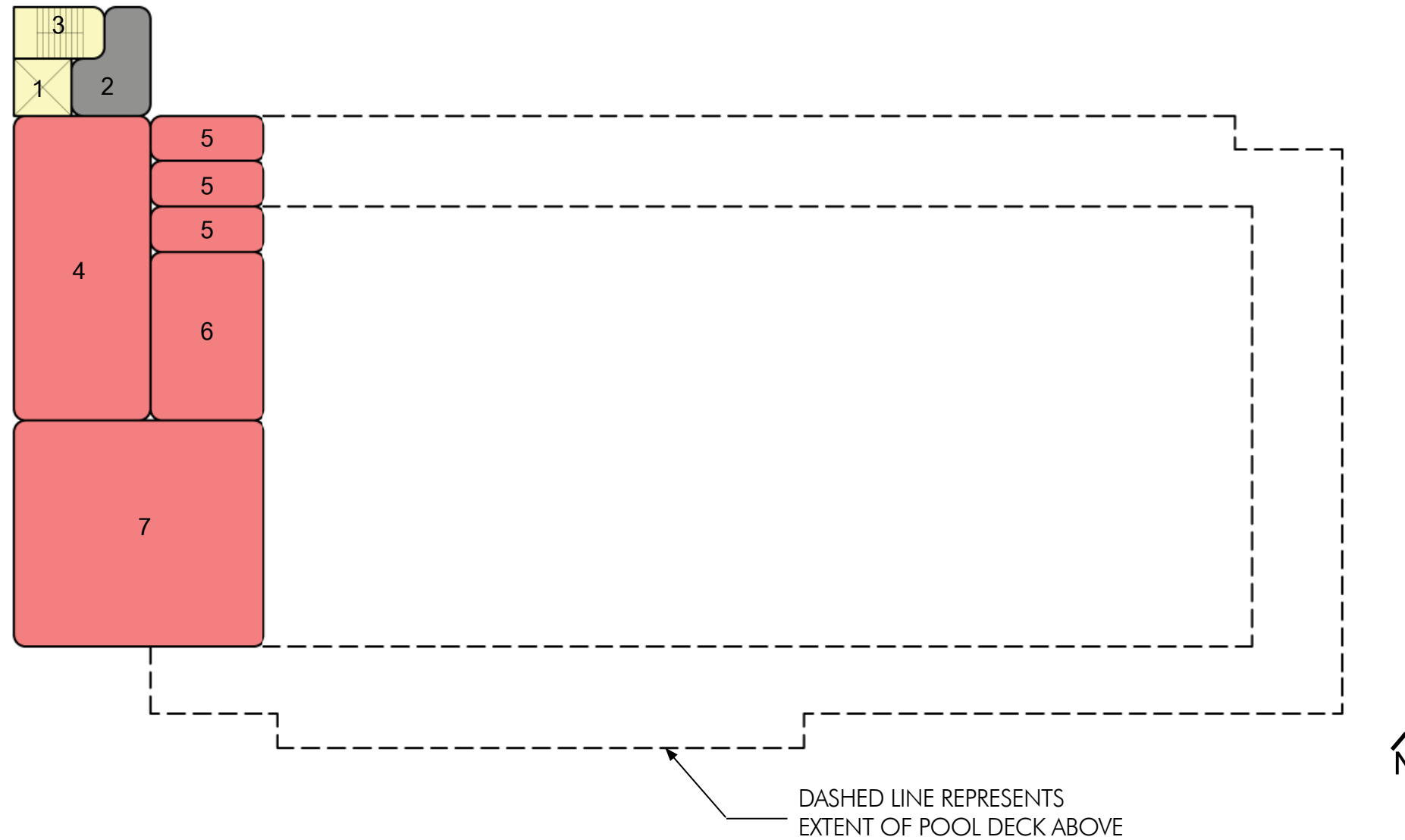
PROPOSED LOCATION OF BRIDGE
CONNECTION TO EXISTING BUILDING



LOWER LEVEL

LAYOUT OF SPACES :

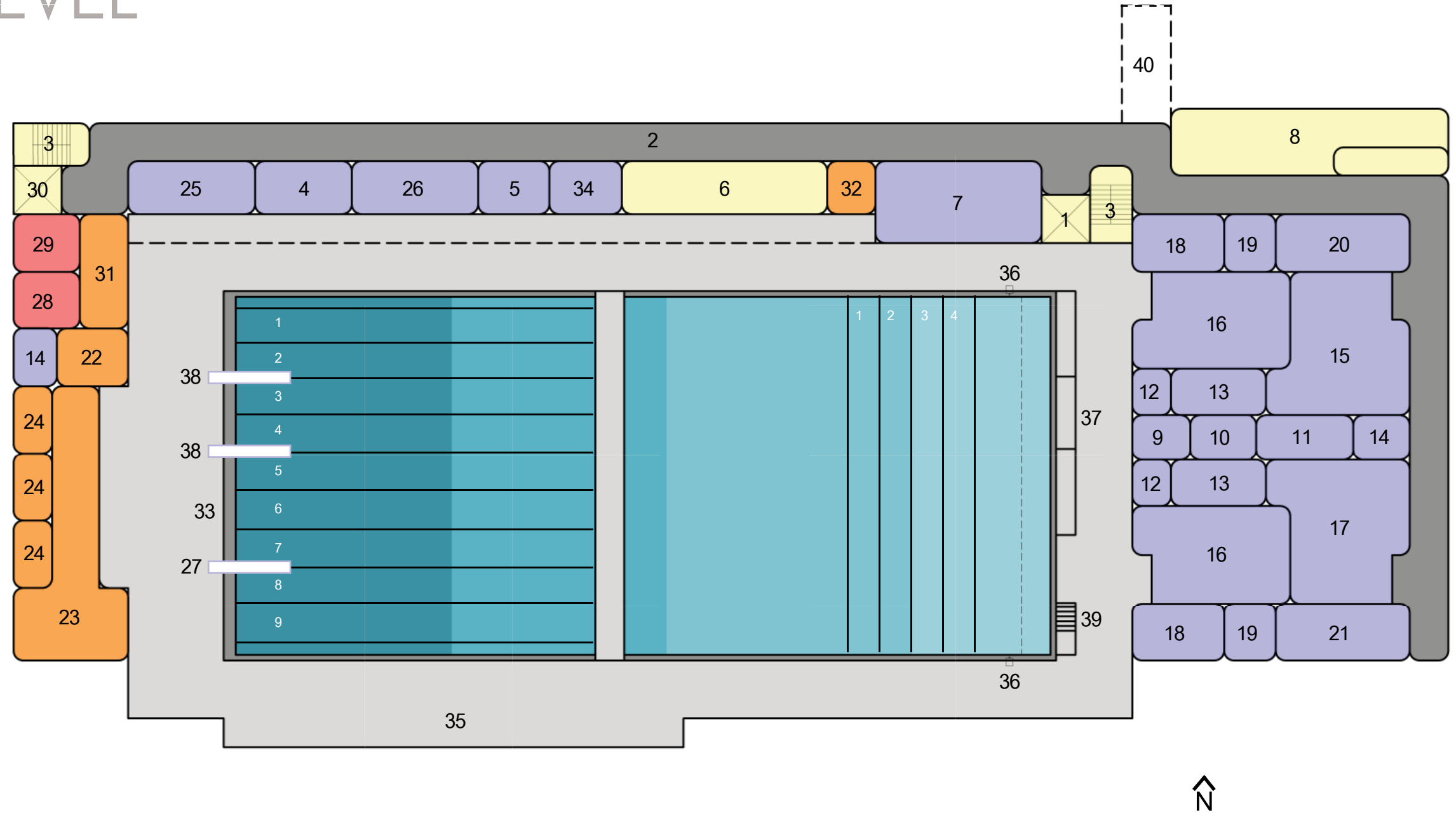
- 1 ELEVATOR, FREIGHT
- 2 ACCESS CORRIDOR
- 3 STAIRS
- 4 POOL FILTRATION ROOM
- 5 CHEMICAL STORAGE
- 6 SURGE TANK
- 7 MECHANICAL ROOM : BOILER/CHILLER



GROUND LEVEL

LAYOUT OF SPACES :

- 1 ELEVATOR, PASSENGER
- 2 ACCESS CORRIDOR
- 3 STAIRS
- 4 SCOREKEEPER
- 5 COACHES OFFICE
- 6 DRYLAND
- 7 FAMILY CHANGING/ALL GENDER
- 8 MAIN ENTRANCE LOBBY / SECURITY
- 9 TOWEL DISTRIBUTION ROOM
- 10 TOWEL STORAGE ROOM
- 11 LAUNDRY ROOM
- 12 ATHLETE TOILETS
- 13 PE. TOILETS
- 14 CUSTODIAL ROOM
- 15 PE. MENS LOCKER ROOM
- 16 PE. SHOWERS
- 17 PE. WOMENS LOCKER ROOM
- 18 ATHLETIC SHOWERS
- 19 ATHLETIC TOILETS
- 20 ATHLETICS MENS LOCKER ROOM
- 21 ATHLETICS WOMENS LOCKER ROOM
- 22 B & G STORAGE
- 23 ATHLETIC STORAGE
- 24 COMMUNITY STORAGE
- 25 COACHES MENS LOCKER ROOM
- 26 COACHES WOMENS LOCKER ROOM
- 27 FUTURE 3M DIVING BOARD
- 28 ELECTRICAL SERVICE ROOM
- 29 IDF | AV ROOM
- 30 ELEVATOR, FREIGHT
- 31 SCOREKEEPER STORAGE
- 32 DRYLAND STORAGE
- 33 COMPETITION STARTING BLOCKS
- 34 AQUATICS DIRECTOR
- 35 ATHLETE SEATING
- 36 ADA LIFT
- 37 TRANSFER WALL AND RAMPS
- 38 1M DIVING BOARD
- 39 THERAPY STAIR
- 40 CONNECTING BRIDGE ABOVE



PROGRAM

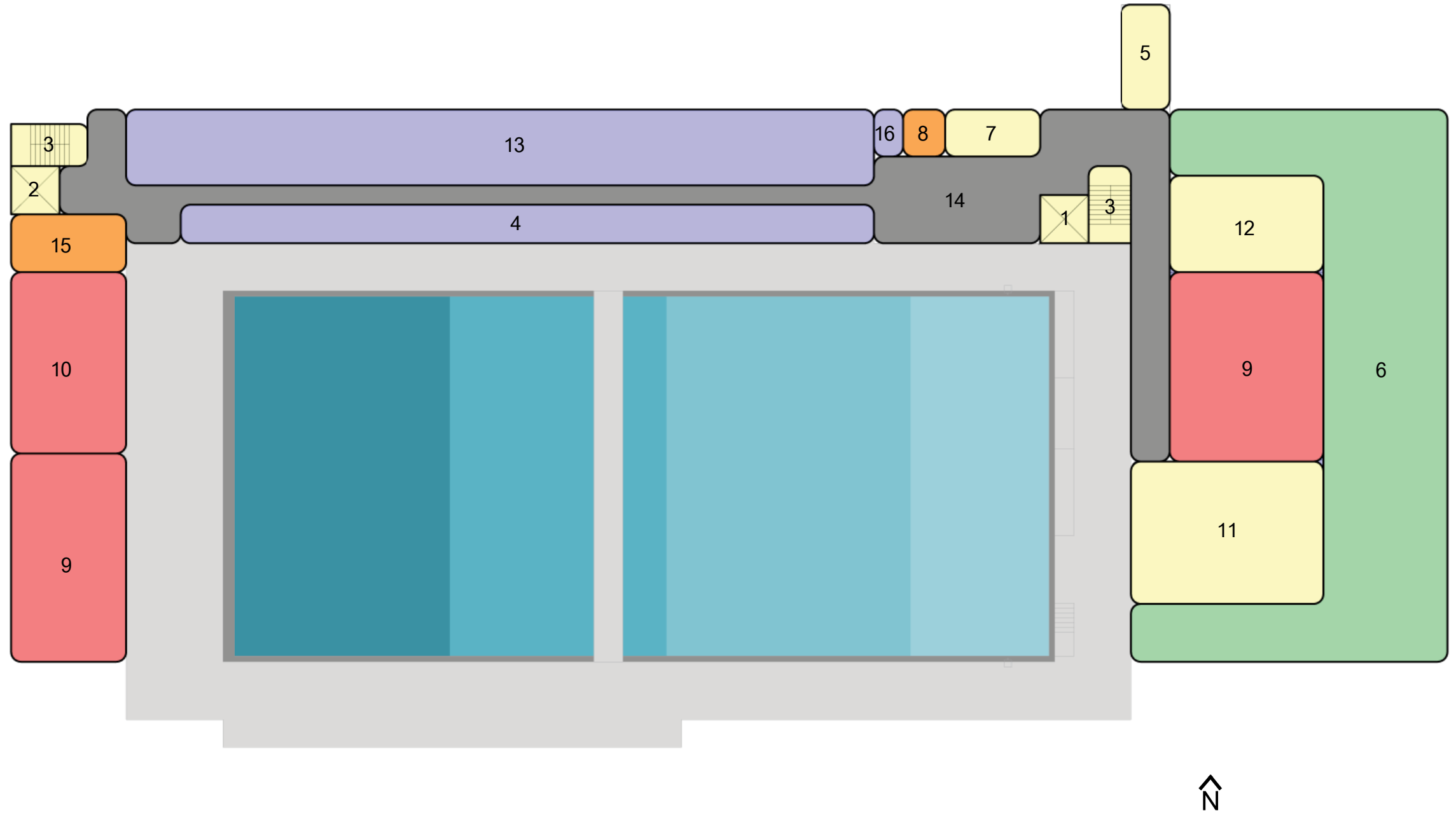
LEGATARCHITECTS

SUSTAINABILITY | PERFORMANCE | DESIGN

UPPER LEVEL

LAYOUT OF SPACES :

- 1 ELEVATOR
- 2 ELEVATOR, FREIGHT
- 3 STAIR
- 4 SPECTATOR SEATING - PERMANENT TIERED
- 5 CONNECTING BRIDGE TO BUILDING
- 6 EDUCATIONAL ROOF GARDEN
- 7 CONCESSIONS
- 8 CONCESSIONS STORAGE
- 9 MECHANICAL ROOM : AHU
- 10 COOLING TOWER
- 11 ALUMNI ROOM
- 12 PUBLIC TOILETS
- 13 SPECTATOR SEATING - RETRACTABLE
- 14 ACCESS CORRIDOR
- 15 P.E. STORAGE
- 16 CUSTODIAL ROOM



POOL

CAPACITY:

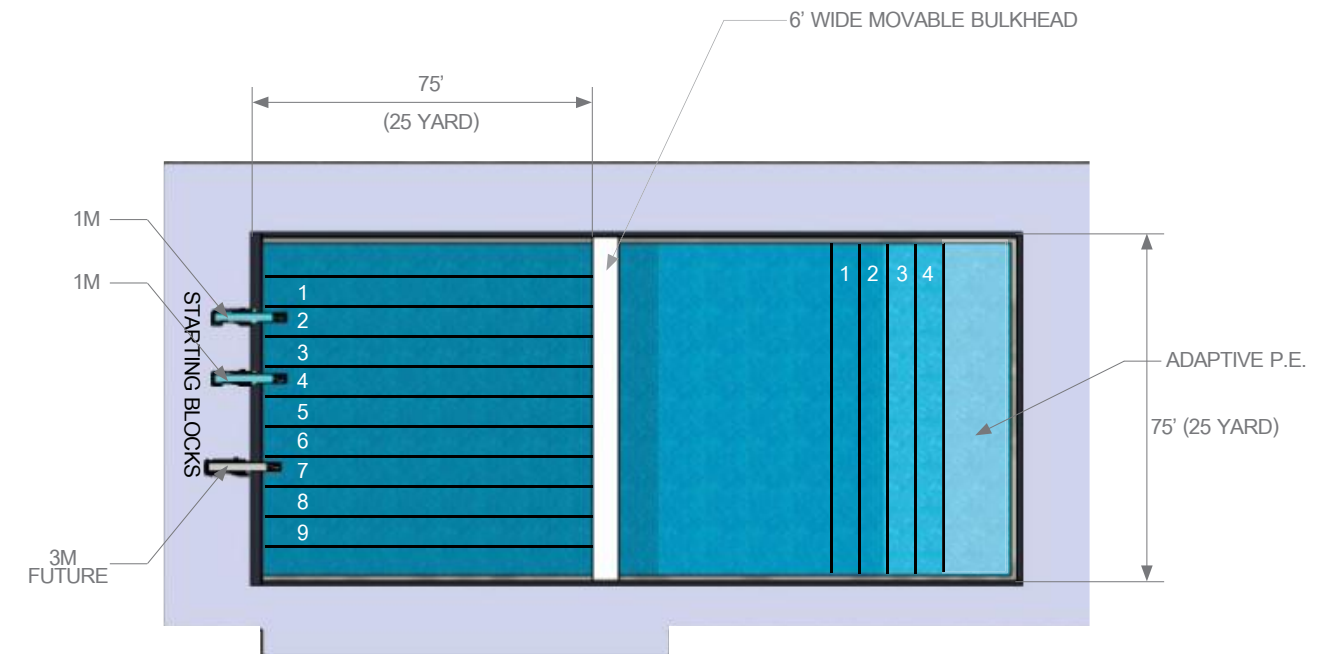
- AREA OF WATER IS 12,755 SF
- MAX OCCUPANTS = 255
- POOL PERIMETER > 300 LF, REQUIRES (2) ACCESSIBLE MEANS OF ENTRY

MATERIALS:

- HORIZONTAL SURFACES - 1X1 CERAMIC TILE
- VERTICAL SURFACES - 1X1 CERAMIC TILE
- HAND HOLD - CERAMIC TILE
- WATERLINE - 1X1 CERAMIC TILE
- LANE MARKERS - BLACK 1X1 CERAMIC TILE
- WALL TARGETS - BLACK 2X2 CERAMIC TILE
- DIVE TARGETS - BLACK 2X2 CERAMIC TILE
- SAFETY LANE LINE - BLACK 2X2 CERAMIC TILE
- BULKHEAD - STAINLESS STEEL OR FIBERGLASS
- DIVING STANDS - ALUMINUM

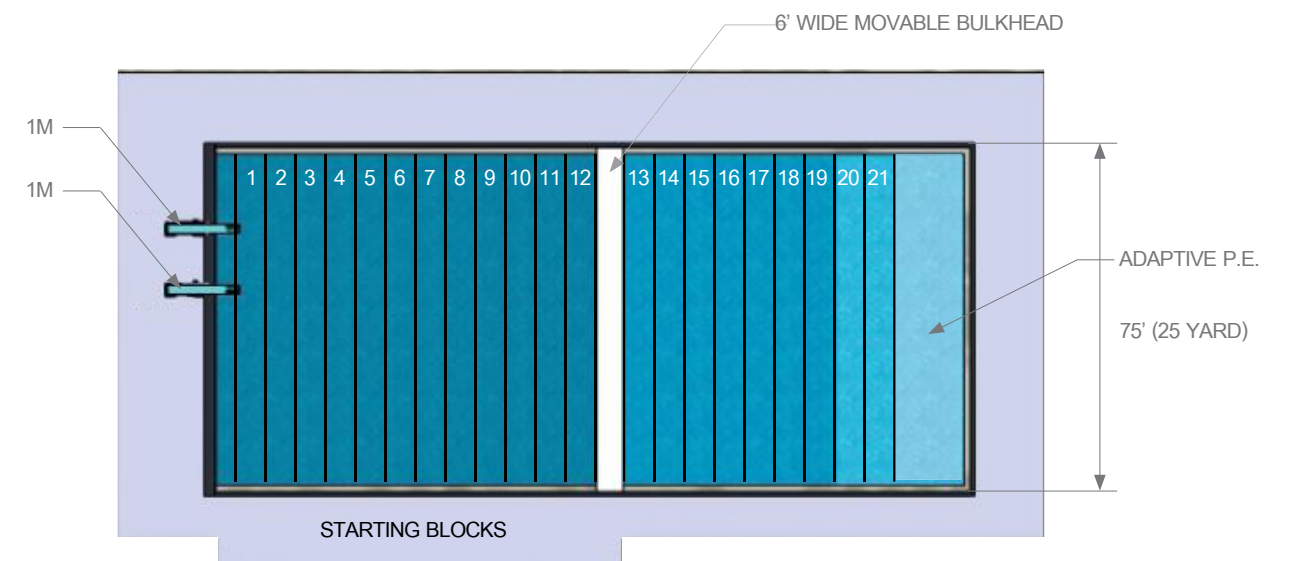
CONSIDERATIONS:

- MYRTHA POOL SYSTEM
- LIGHTING - LED OR FLUORESCENT
- LIGHTING - DIRECT OR INDIRECT
- (9) LANES FOR COMPETITION
- MOVABLE OR MOTORIZED BULKHEAD
- (2) 1M DIVING BOARDS + STANDS
- (1) 3M DIVING BOARD + STAND - FUTURE
- STARTING BLOCK/TIMING SYSTEM CAPABILITIES AT BULKHEAD
- ADA ACCESS - POOL LIFTS AND TRANSFER WALL
- DIVING RIGGING SYSTEM
- DIVING SPARGING SYSTEM
- DIVING WATER AGITATION
- AUDIO-VIDEO SYSTEM W/ POOL DECK AND SPECTATOR MONITORS
- CAMERA AND DVR SYSTEM FOR DIVING AND SWIMMING
- LED SCOREBOARD AT SOUTHWEST CORNER FACING SPECTATORS
- OBSERVATION WINDOW AT FILTRATION ROOM
- TIMER DISPLAYS INTEGRATED WITH BUILDING
- UNDERWATER CAMERAS OR SPEAKERS



COMPETITION | DIVING | WARMUP

(9) 25 YARD COMPETITION LANES, WARM UP LANES, SHALLOW ADAPTIVE P.E.



P.E.

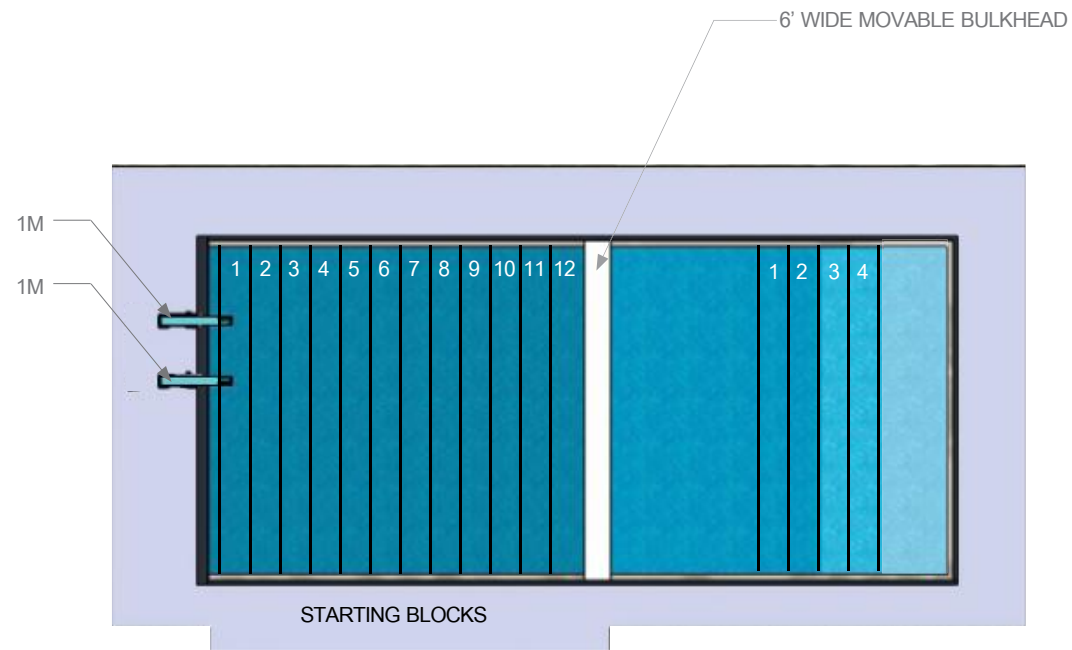
(21) 25 YARD PRACTICE CROSS LANES, SHALLOW ADAPTIVE P.E.

DIAGRAMS

LEGATARCHITECTS

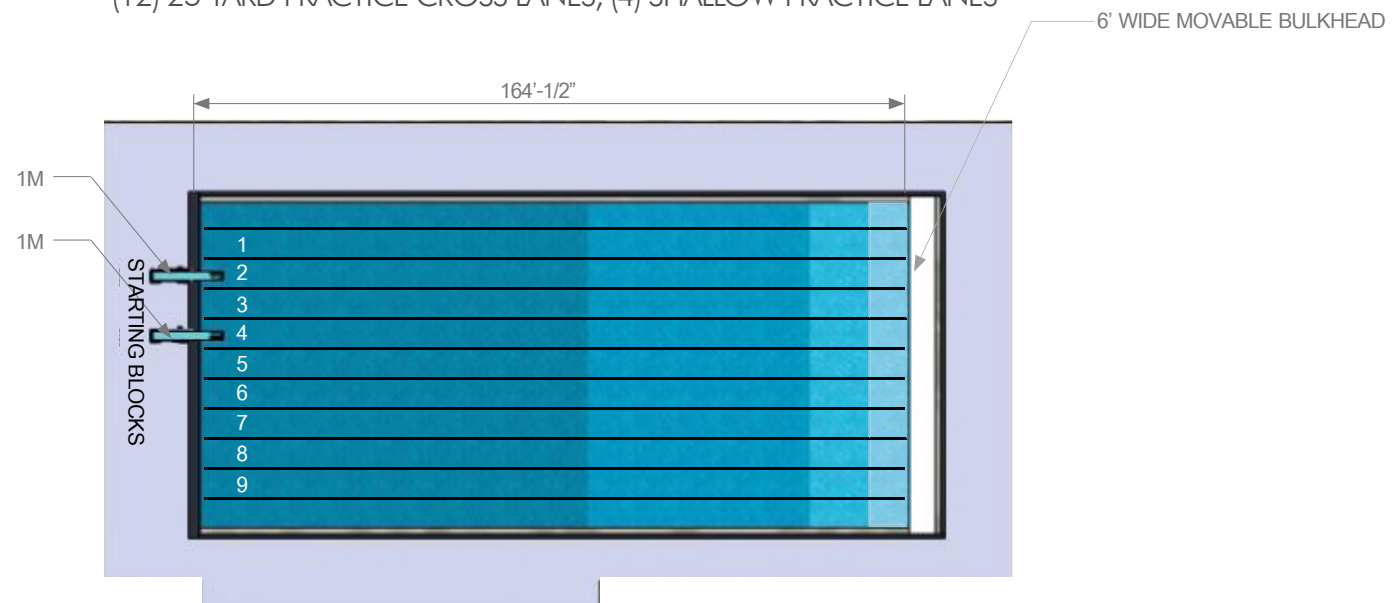
SUSTAINABILITY | PERFORMANCE | DESIGN

32



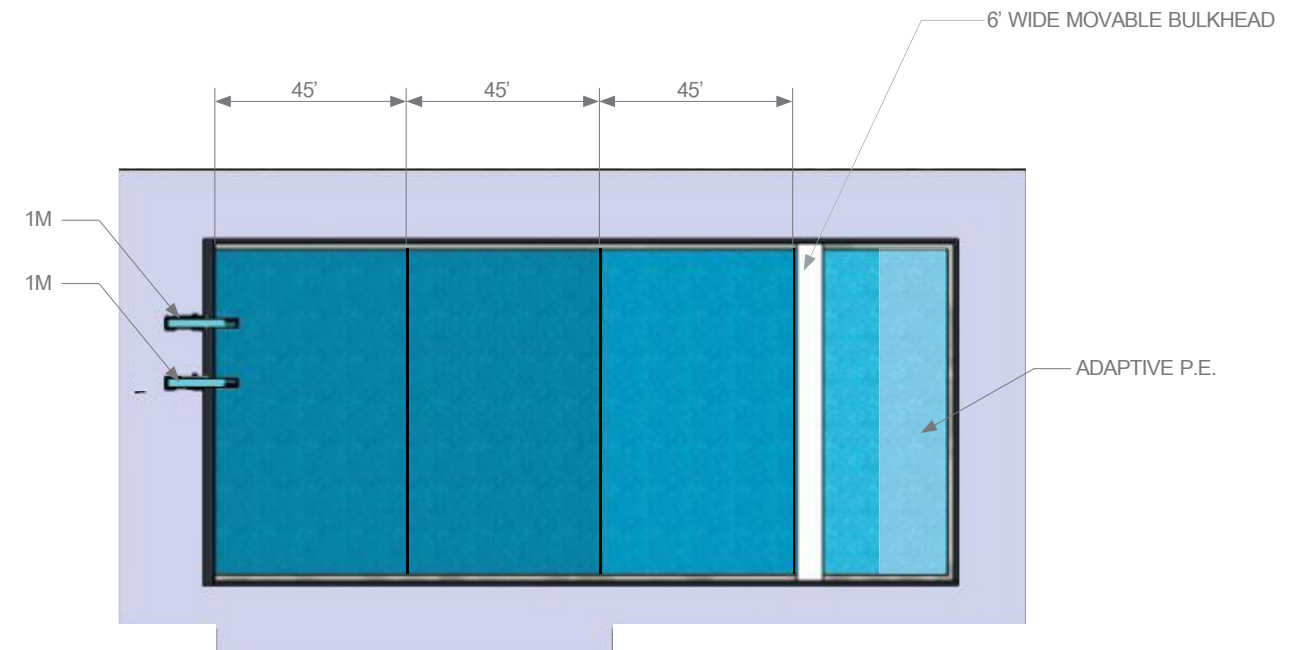
COMMUNITY USE

(12) 25 YARD PRACTICE CROSS LANES, (4) SHALLOW PRACTICE LANES



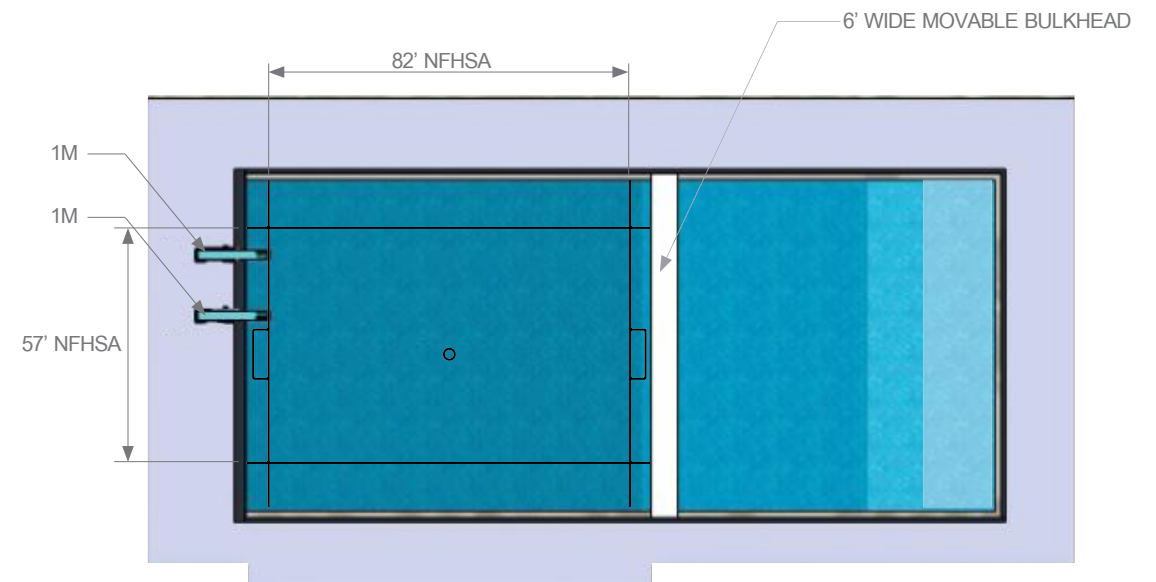
50M

(9) 50 METER LANES



WATER POLO PRACTICE | ADAPTIVE P.E.

(3) WATER POLO COURTS, SHALLOW ADAPTIVE PE



WATER POLO COMPETITION

POOL DECK

CAPACITY:

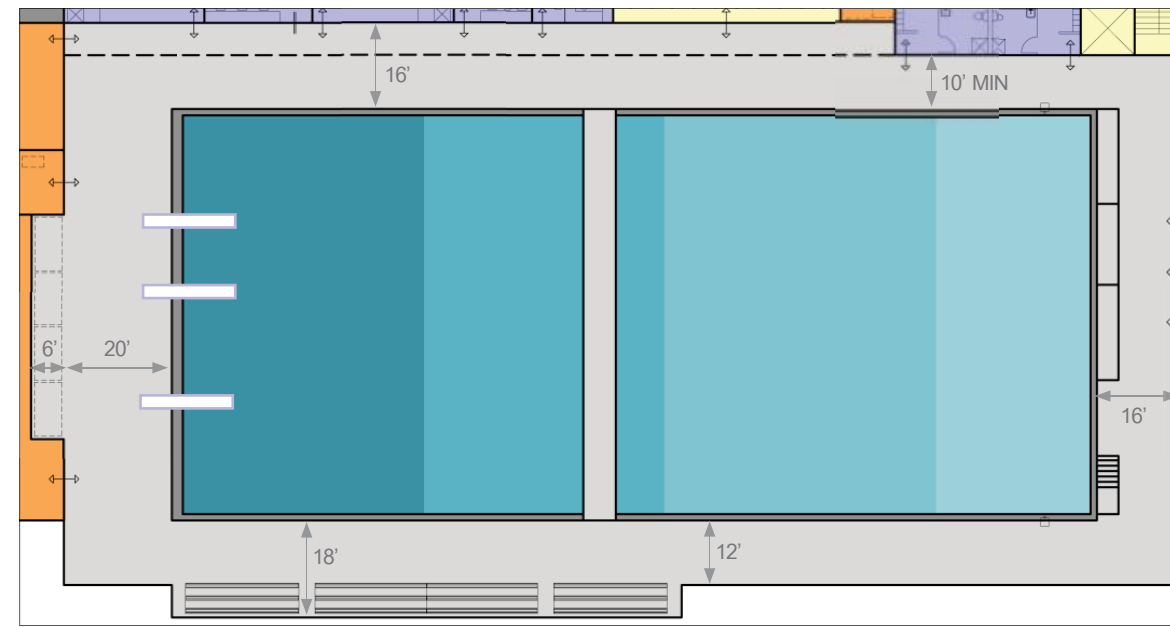
- AREA OF POOL DECK IS 8,867 SF
- MAX 295 OCCUPANTS

MATERIALS:

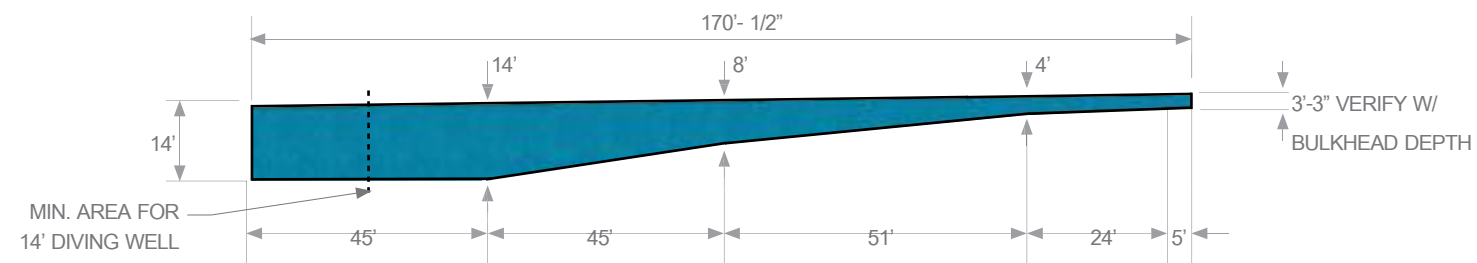
- FLOORS: 1X1 OR 2X2 CERAMIC TILE
- EPOXY GROUT
- TRENCH DRAINS: PLASTIC COVER OR STAINLESS STEEL
- GUTTER: PLASTIC OR STAINLESS STEEL

CONSIDERATIONS:

- 28"-30" WIDE PARAPET FOR STARTING BLOCKS
- 14" WIDE PERIMETER GUTTER
- LANE REEL STORAGE ON DECK BEHIND DIVING BOARDS
- ADA ACCESS: POOL LIFTS AND TRANSFER WALL
- THERAPY STAIR



POOL PROFILE



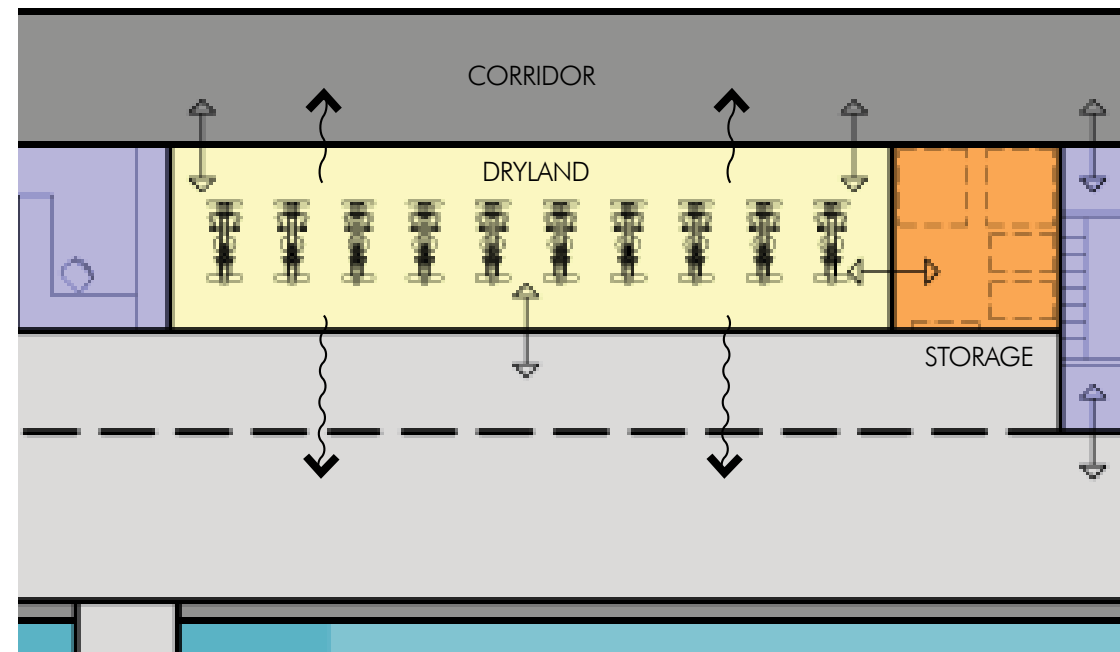
DRYLAND

MATERIALS:

- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU
- ACCENT WALLS: SOLID SURFACE
- FLOORS: POURED EPOXY OR RUBBER SPORTS
- CEILING: EXPOSED
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV. HM OR ALUMINUM

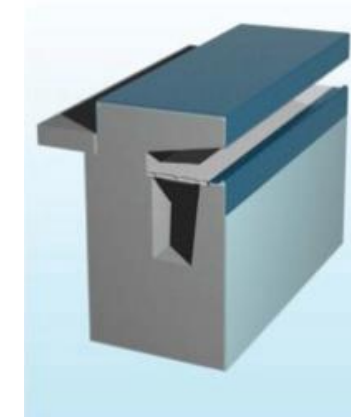
CONSIDERATIONS:

- HORIZONTAL SLIDING GLASS WALL OR GLASS GARAGE DOOR
- DIRECT ACCESS TO CORRIDOR, POOL DECK, STORAGE



DIAGRAMS

GUTTER PROFILES



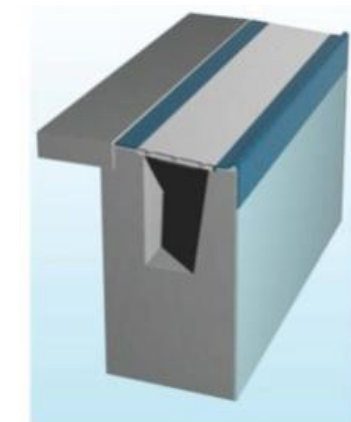
STARTING BLOCK GUTTER:

STEP PARAPET

PROVIDES A VISUAL REFERENCE POINT ABOVE THE WATER LEVEL.

USED ON TURNING ENDS OF RACE COURSE.

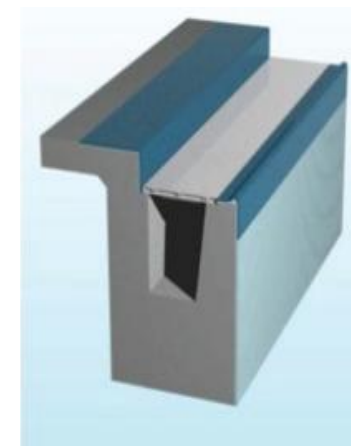
IDEAL FOR POOLS WITH BULKHEADS



OPTION A GUTTER: DECK LEVEL

"FAST" BECAUSE OF OVERFLOW DESIGN. ACCOMMODATES ANY POOL SHAPE.

DECK LEVEL DESIGN ALLOWS EASIER ACCESS.



OPTION B GUTTER: ROLLOUT WITH HANDHOLD

PROVIDES A VISUAL REFERENCE POINT ABOVE THE WATER LEVEL.

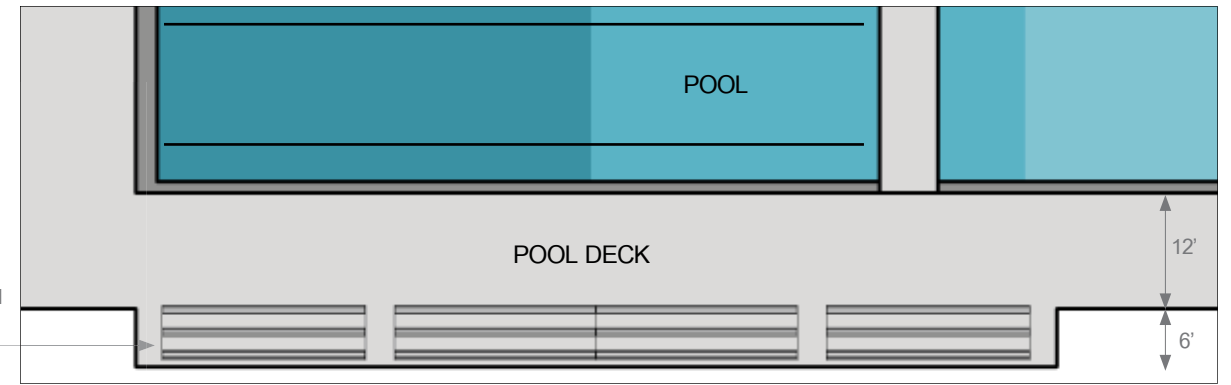
IDEAL ALONGSIDE A PARAPET GUTTER

ATHLETE SEATING

- CAPACITY: 168 OCCUPANTS
- MATERIALS: ALUMINUM
- CONSIDERATIONS: DUAL USE AT DRYLAND
COLORS OR GRAPHICS
ADDITIONAL BENCH STORAGE

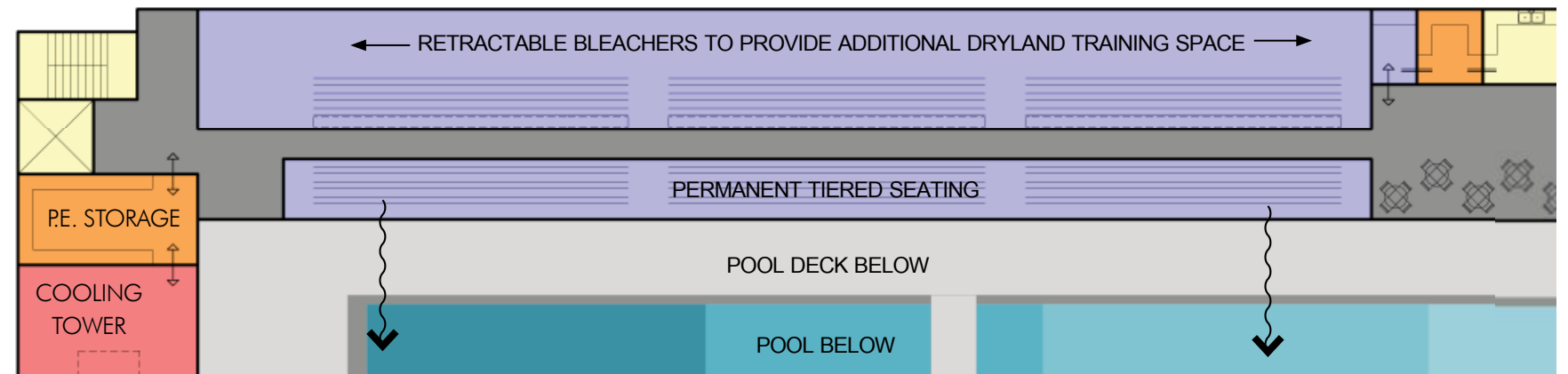


(4) 3-TIER ALUMINUM, DOUBLE FOOTBOARD BLEACHERS, EACH 21' LONG W/ TILT 'N ROLL KIT



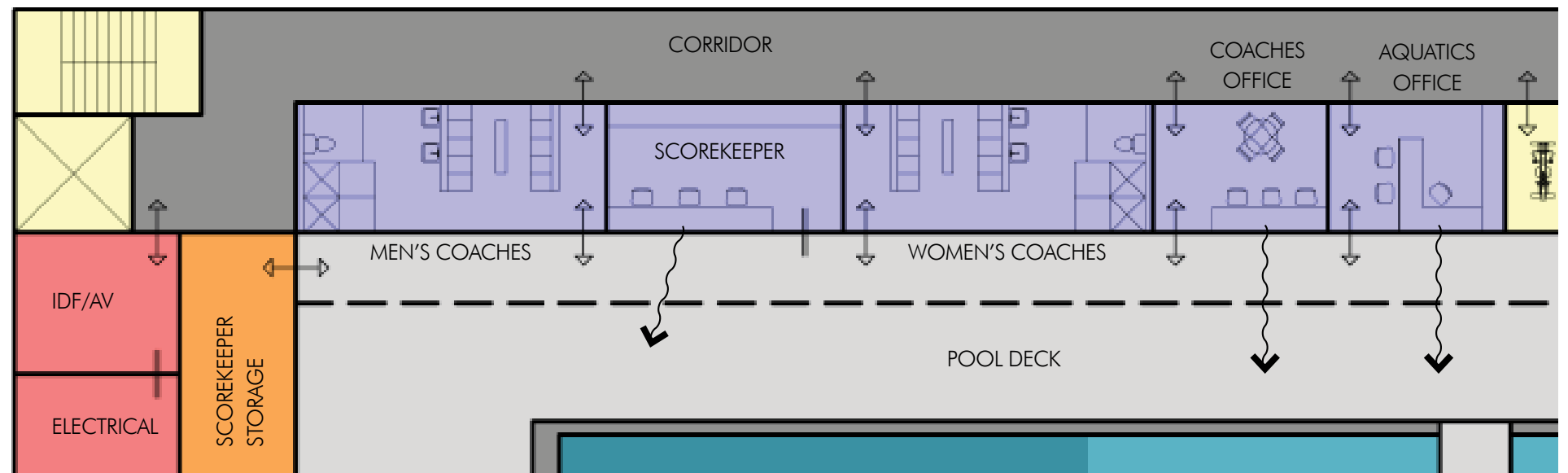
SPECTATOR SEATING

- CAPACITY: 450 OCCUPANTS
- MATERIALS: ALUMINUM OR PLASTIC
- CONSIDERATIONS: TIERED PERMANENT SEATING
USE CLOSED RETRACTABLE SEATING AS DIVIDER
OPERABLE GLASS PARTITION OR STRUCTURAL GLASS GUARD
CANTILEVER NORTH DRYLAND OVER ALLEY
SEPARATE FAN UNIT TO SERVE SPACE



COACHES | SCOREKEEPER

- MATERIALS:
- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU
 - ACCENT WALLS: SOLID SURFACE OR PORCELAIN TILE
 - FLOORS: Poured epoxy
 - CEILING: 2X2 VINYL FACED SAT, EXPOSED AT SCOREKEEPER
 - TOILET PARTITIONS: SOLID COLOR REINFORCED COMPOSITE
 - BENCHES: SOLID SURFACE
 - ADA BENCH: SOLID SURFACE
 - LOCKERS: SOLID PHENOLIC OR HDPE
 - DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
 - DOORS: FRP, GALV HM OR ALUMINUM
 - CASEWORK: PLASTIC LAMINATE
 - COUNTERTOPS: SOLID SURFACE
 - OPERABLE WINDOW FOR SCOREKEEPER



P.E. LOCKER ROOMS

CAPACITY:

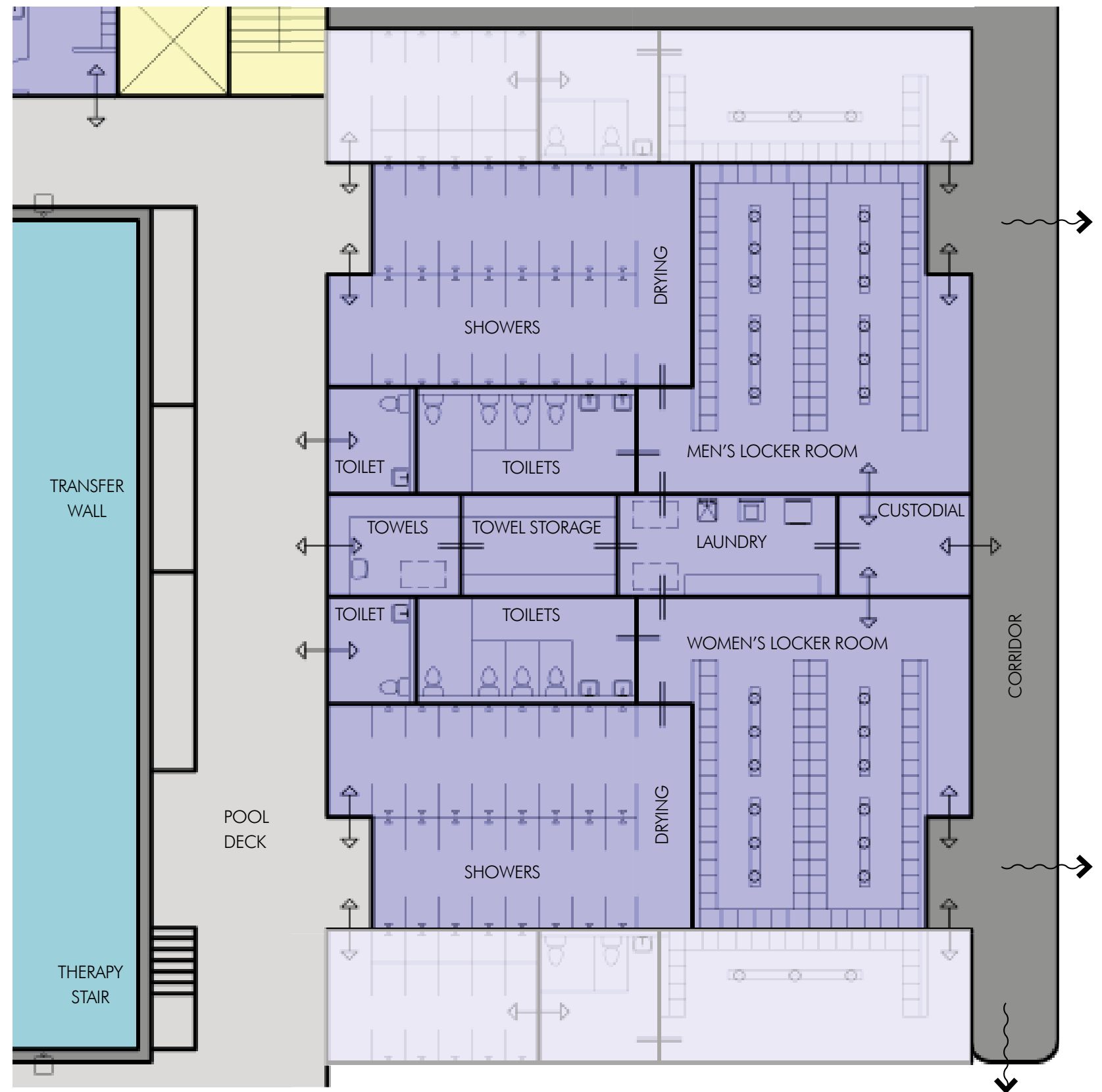
- MENS LOCKER ROOM = 48 OCCUPANTS PER PE CLASS
- WOMENS LOCKER ROOM = 48 OCCUPANTS PER PE CLASS

MATERIALS:

- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU
- ACCENT WALLS: SOLID SURFACE OR PORCELAIN TILE
- WET WALLS: STRUCTURAL GLAZED FACING TILE
- FLOORS: POURED EPOXY
- CEILING: 2X2 VINYL FACED SAT
- TOILET PARTITIONS: SOLID COLOR REINFORCED COMPOSITE
- TRENCH DRAINS: STAINLESS STEEL
- BENCHES: SOLID SURFACE
- ADA BENCH: SOLID SURFACE
- LOCKERS: SOLID PHENOLIC OR HDPE
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV HM OR ALUMINUM

CONSIDERATIONS:

- (68) 2-TIER 18X18X72 LOCKERS
- PADLOCK HASP FOR LOCKS
- (32) SHOWER HEADS
- (4) WATER CLOSETS/URINALS AND (2) LAVS
- (1) DRINKING FOUNTAIN W/ BOTTLE FILL STATION
- MARKERBOARD OR TACKBOARD
- SUIT SPINNERS, PROVIDE DRAIN
- CASEWORK/SHELVING FOR TOWELS
- WASHER/DRYER PROVIDED BY OWNER
- (1) STAFF MEMBER TO DISTRIBUTE TOWELS/SUITS TO MEN AND WOMEN
- TOILET ACCESSORIES BY OWNER
- HAND/HAIR DRYERS
- SHOWER CURTAINS OR PARTITIONS
- CHANGING MIRROR
- COMBINATION LAVS OR INDIVIDUAL LAVS
- FLOOR DRAINS AT LOCKER ROOM
- INDIVIDUAL SHOWER CONTROLS AND MASTER MIXING VALVE
- ELECTRIC STRIKE/CARD READER ON DOORS



DIAGRAMS

ATHLETIC LOCKER ROOMS

CAPACITY:

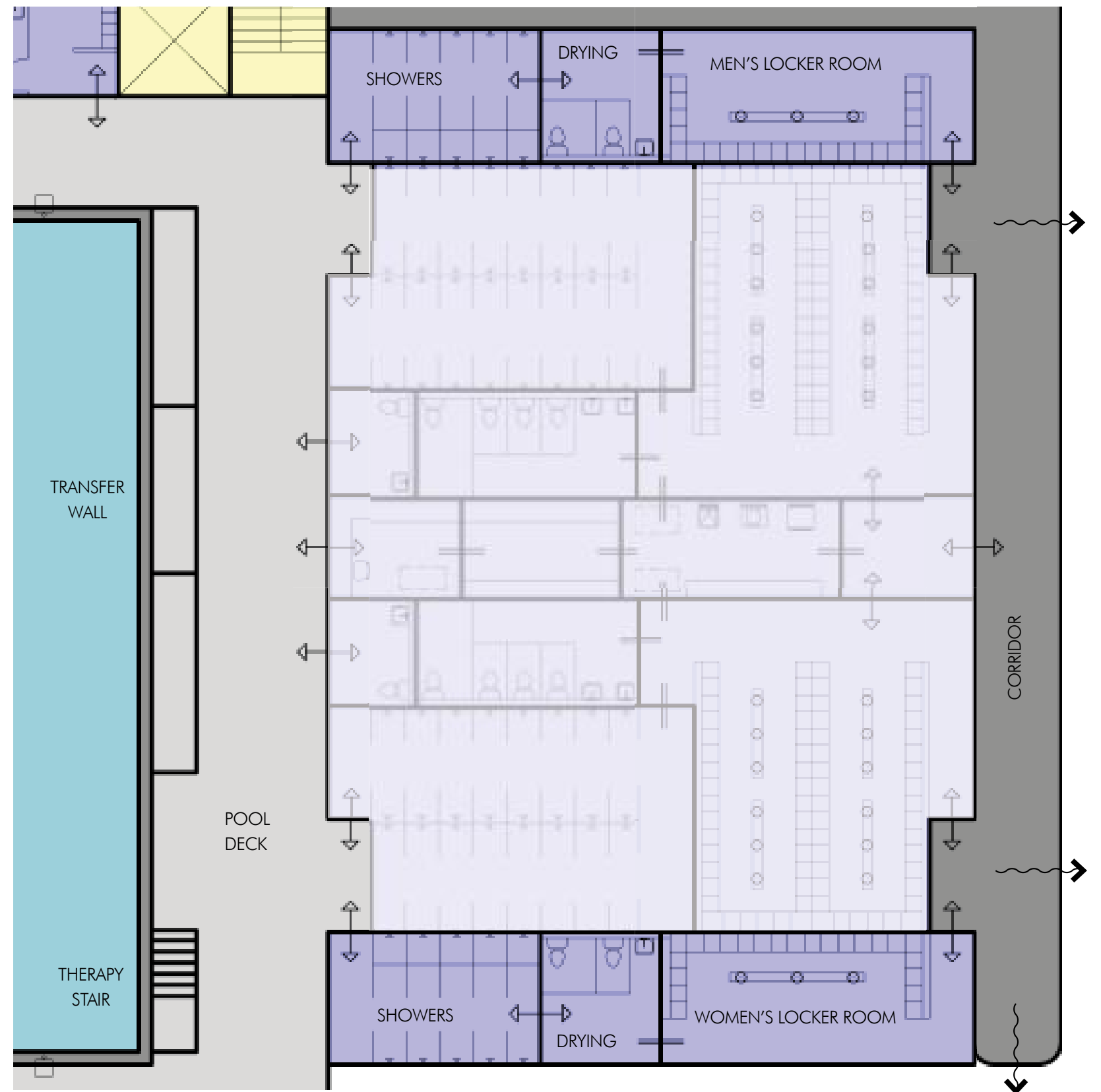
- MENS LOCKER ROOM = 40 OCCUPANTS
- WOMENS LOCKER ROOM = 40 OCCUPANTS

MATERIALS:

- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU
- ACCENT WALLS: SOLID SURFACE OR PORCELAIN TILE
- WET WALLS: STRUCTURAL GLAZED FACING TILE
- FLOORS: POURED EPOXY
- CEILING: 2X2 VINYL FACED SAT
- TOILET PARTITIONS: SOLID COLOR REINFORCED COMPOSITE
- TRENCH DRAINS: STAINLESS STEEL
- BENCHES: SOLID SURFACE
- ADA BENCH: SOLID SURFACE
- LOCKERS: SOLID PHENOLIC OR HDPE
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV HM OR ALUMINUM

CONSIDERATIONS:

- (21) 2-TIER 18X18X72 LOCKER
- PADLOCK HASPS FOR LOCKS
- (10) SHOWER HEADS
- (2) WATER CLOSETS/URINALS AND (1) LAV
- (1) DRINKING FOUNTAIN W/ BOTTLE FILL STATION
- MARKERBOARD OR TACKBOARD
- SUIT SPINNERS, PROVIDE DRAIN
- TOILET ACCESSORIES BY OWNER
- HAND/HAIR DRYERS
- SHOWER CURTAINS OR PARTITIONS
- CHANGING MIRROR
- COMBINATION LAVS OR INDIVIDUAL LAVS
- FLOOR DRAINS AT LOCKER ROOM
- INDIVIDUAL SHOWER CONTROLS AND MASTER MIXING VALVE
- ELECTRIC STRIKE/CARD READER ON DOORS



FAMILY CHANGING

CAPACITY:

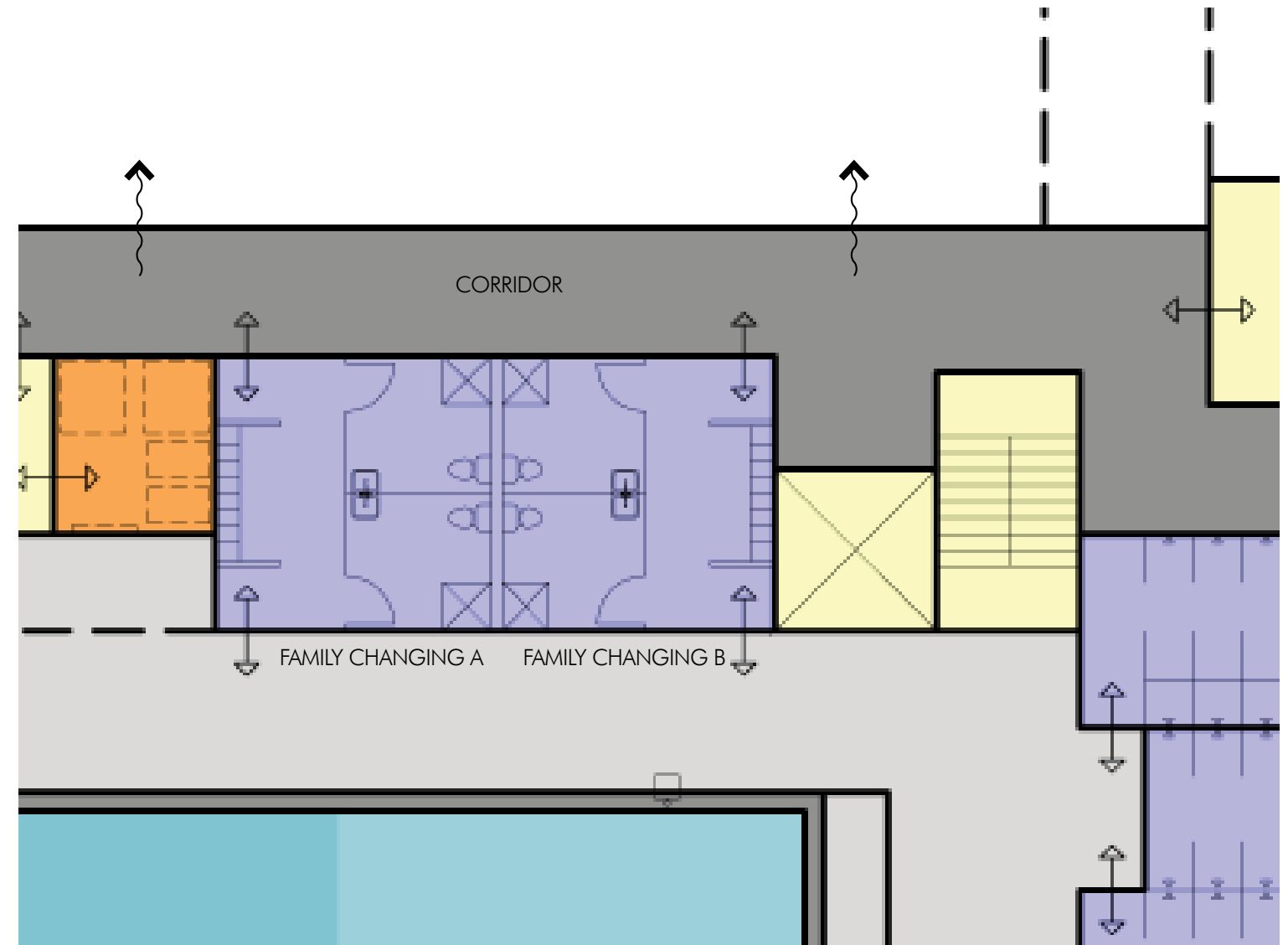
- FAMILY CHANGING A = 8 OCCUPANTS
- FAMILY CHANGING B = 8 OCCUPANTS

MATERIALS:

- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU
- ACCENT WALLS: SOLID SURFACE OR PORCELAIN TILE
- WET WALLS: STRUCTURAL GLAZED FACING TILE
- FLOORS: POURED EPOXY
- CEILING: 2X2 VINYL FACED SAT
- BENCHES: SOLID SURFACE
- ADA BENCH: SOLID SURFACE
- LOCKERS: SOLID PHENOLIC OR HDPE
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV HM OR ALUMINUM

CONSIDERATIONS:

- (8) 5-TIER 12X12X12 LOCKERS
- PADLOCK HASPS FOR LOCKS OR BUILT-IN LOCKS
- SUIT SPINNERS - PROVIDE DRAIN
- CASEWORK/SHELVING FOR TOWELS
- TOILET ACCESSORIES BY OWNER
- HAND/HAIR DRYERS
- FLOOR DRAINS IN LOCKER AREA
- CHANGING MIRROR
- SHOWER CURTAIN OR SHOWER DOOR
- CHANGING TABLES IN EACH STATION



DIAGRAMS

LEGATARCHITECTS

SUSTAINABILITY | PERFORMANCE | DESIGN

38

ALUMNI ROOM | CONCESSIONS

CAPACITY:

- ALUMNI ROOM = 49 OCCUPANTS
- CONCESSIONS = 3 OCCUPANTS
- MEN'S TOILET = ASSUME 270 OCCUPANTS
- WOMENS TOILET = ASSUME 270 OCCUPANTS

ALUMNI ROOM MATERIALS:

- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU, STOREFRONT
- ACCENT WALLS: SOLID SURFACE OR PORCELAIN TILE
- FLOORS: TERRAZZO TILE
- CEILING: 2X4 SAT W/ CENTER SCORE
- CASEWORK: PLASTIC LAMINATE
- COUNTERTOPS: SOLID SURFACE
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV HM OR ALUMINUM

CONCESSIONS MATERIALS:

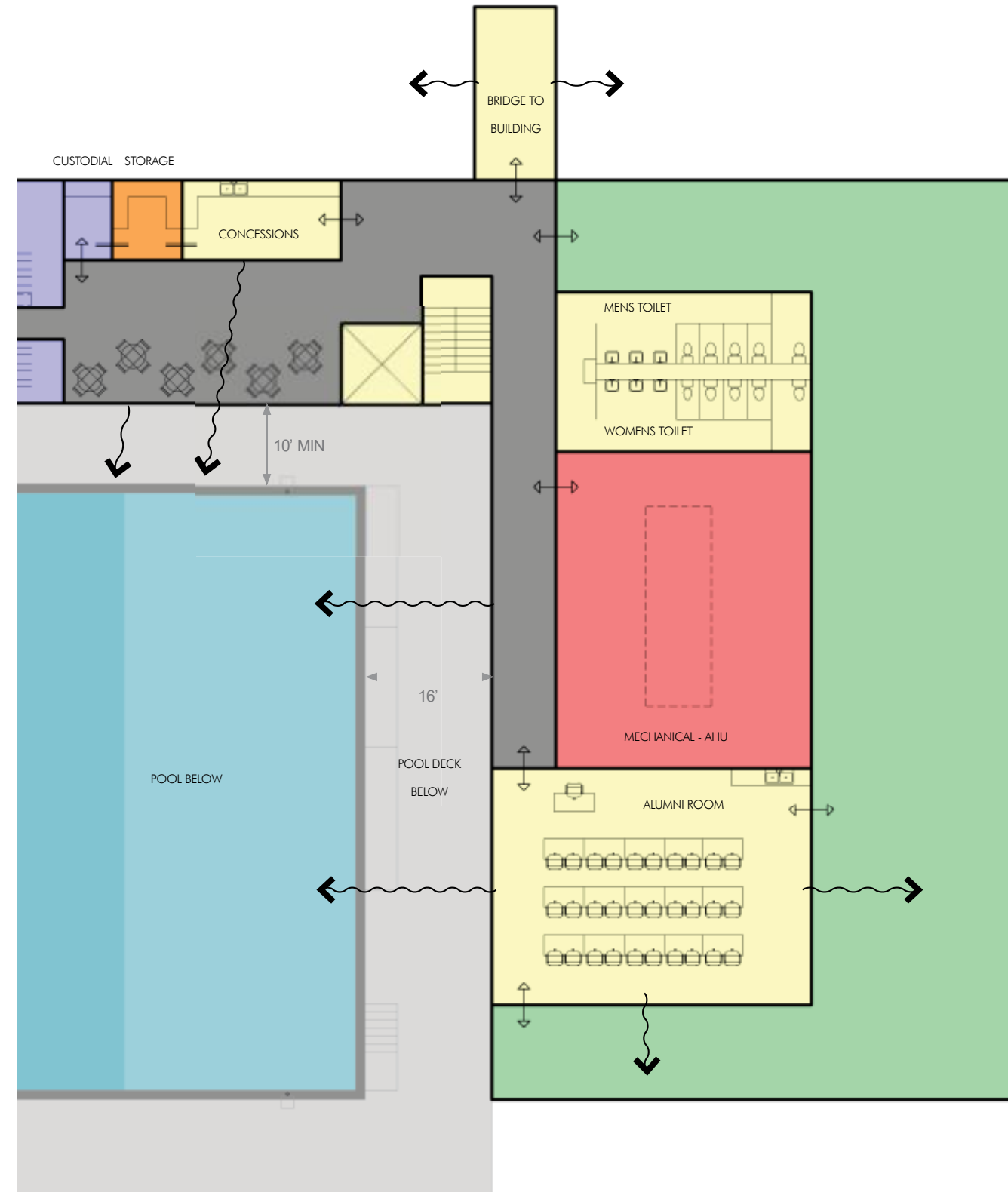
- WALLS: STRUCTURAL GLAZED FACING TILE OR GROUND FACE CMU,
- FLOORS: TERRAZZO TILE
- CEILING: 2X2 VINYL FACED
- CASEWORK: PLASTIC LAMINATE, WIRE SHELVING
- COUNTERTOPS: SOLID SURFACE
- DOOR FRAMES: FRP, GALV. HM OR ALUMINUM
- DOORS: FRP, GALV HM OR ALUMINUM
- OVHD COILING DOOR: STAINLESS STEEL

TOILET ROOM MATERIALS:

- WALLS: PORCELAIN TILE
- WET WALLS: PORCELAIN TILE
- FLOORS: TERRAZZO TILE OR Poured EPOXY
- CEILING: 2X2 VINYL FACED SAT
- TOILET PARTITIONS: SOLID COLOR REINFORCED COMPOSITE

CONSIDERATIONS:

- ALUMNI ROOM: MARKERBOARD/TACKBOARD/SMART BOARD
- ALUMNI ROOM: TV, AV SYSTEM - TIE INTO POOL SYSTEM
- ALUMNI ROOM: MOVABLE TABLES AND CHAIRS
- CONCESSIONS: DETERMINE WHAT WILL BE SOLD
- CONCESSIONS: APPLIANCES BY OWNER
- TOILET ROOM: (5) WATER CLOSETS/URINALS AND (3) LAVS
- TOILET ROOM: ACCESSORIES BY OWNER
- (2) DRINKING FOUNTAINS W/ BOTTLE FILL STATION
- PROVIDE ACCESS TO EDUCATIONAL GARDEN
- GLASS PARTITION AT CORRIDORS



OAK PARK AND RIVER FOREST HIGH SCHOOL

Critical Project Milestones

- 10.2015 Legat Architects to Proceed with Design
- 02.2016 Complete Schematic Design
- 05.2016 Complete Design Development
- 07.2016 Start Demolition of Parking Structure
- 09.2016 Complete Construction Documents
- 09.2016 Obtain Village Permits and Approvals
- 09.2016 Begin Foundations and Site Work
- 11.2016 Begin Vertical Construction
- 08.2018 Grand Opening of New Aquatic Center

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