SITE LAYOUT

1 BOARDING DOCK
2 AMPHITHEATER
3 OPEN LAWN
4 BEACH
5 PLAYGROUND
6 SPLASH PLAY
7 FLEXIBLE PLAZA
8 FIRE TABLE AREA
9 RESTROOM / BATH HOUSE
10 ENTRANCE / PARKING
11 FUTURE BREAKWATER
12 SMALL WATERCRAFT ACCESS
13 TRAILER HOME RELOCATION
14 WELL HOUSE ACCESS

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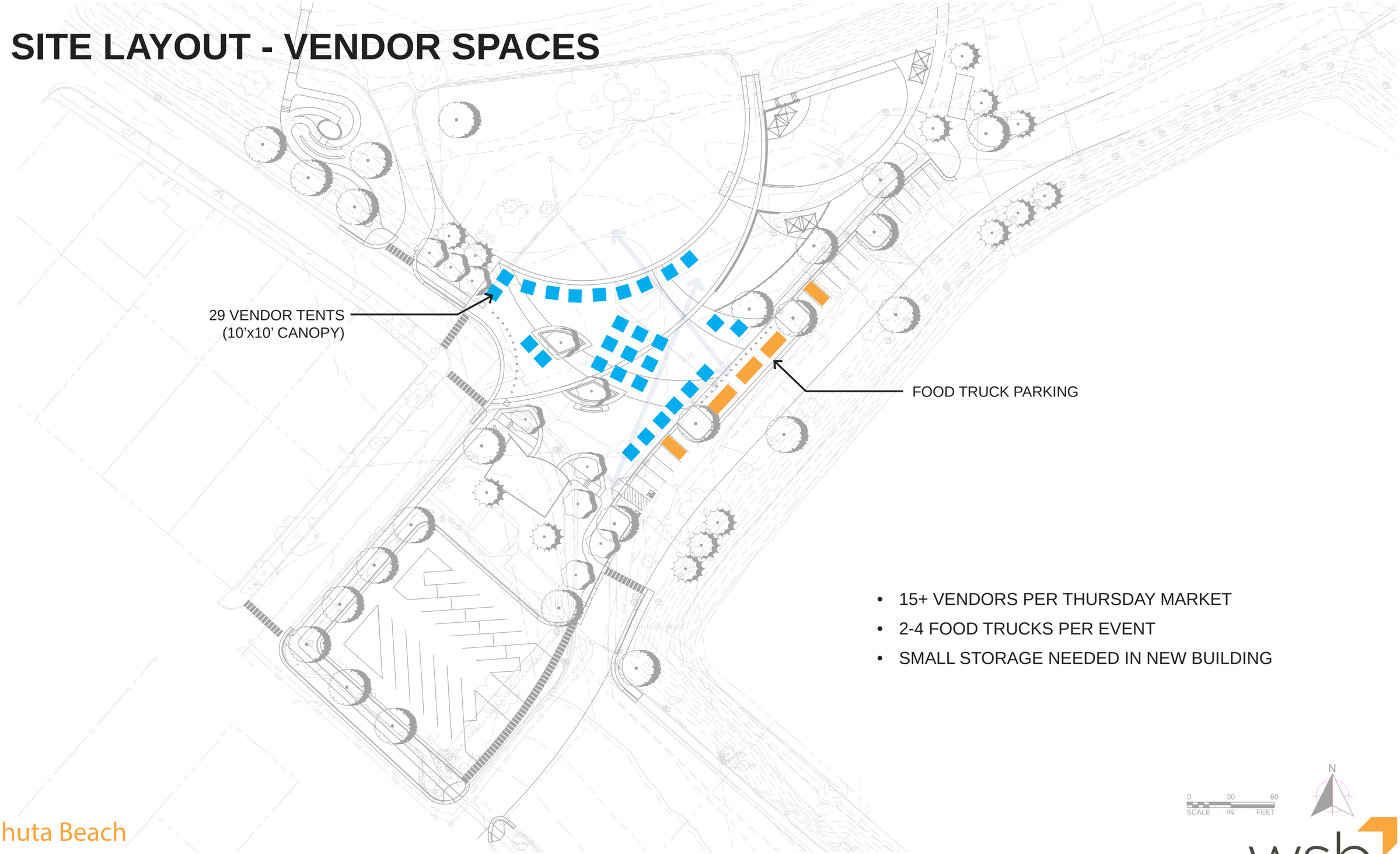
SITE LAYOUT - VENDOR SPACES



- 15+ VENDORS PER THURSDAY MARKET
- 2-4 FOOD TRUCKS PER EVENT
- SMALL STORAGE NEEDED IN NEW BUILDING

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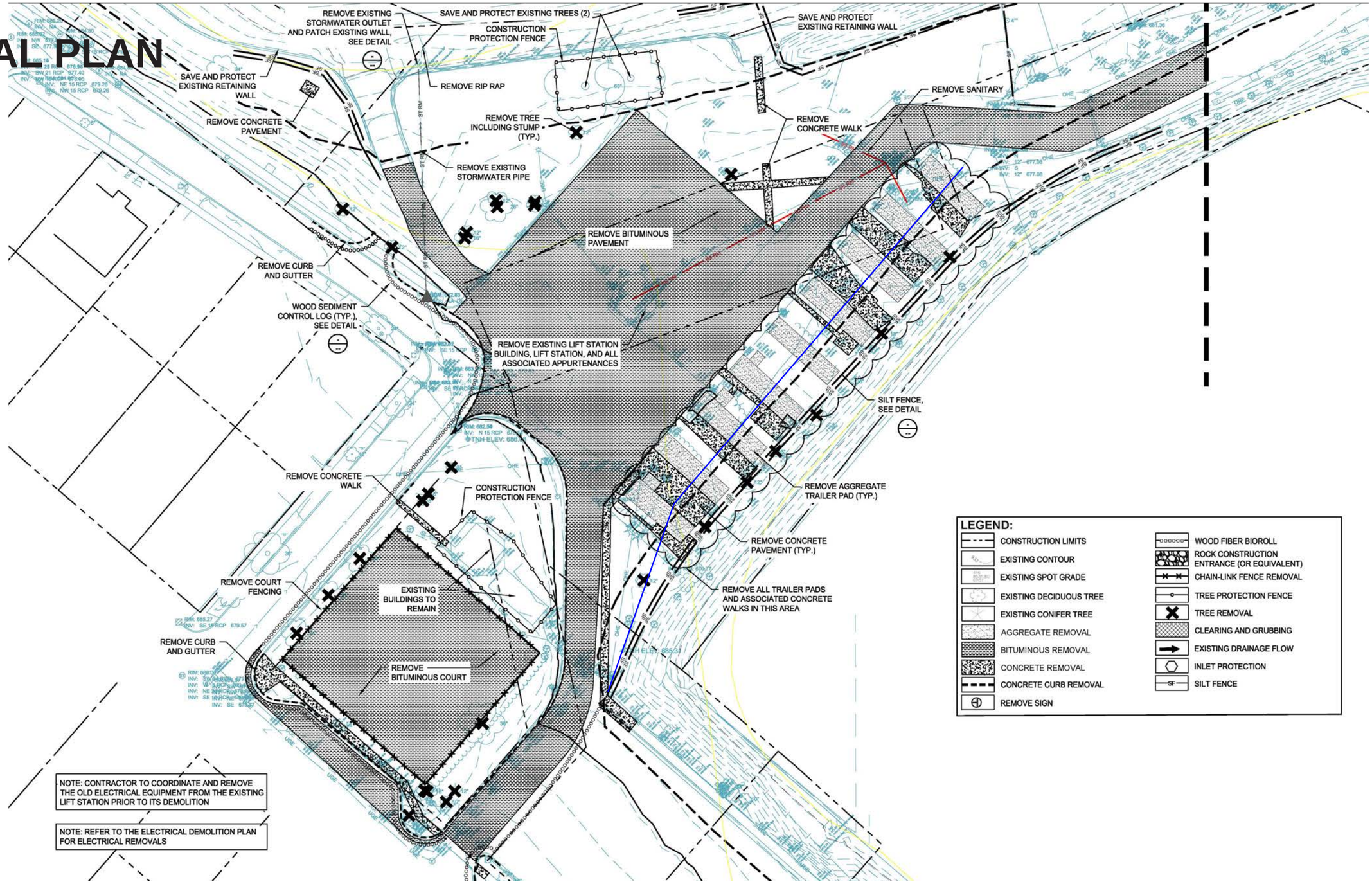
REMOVAL PLAN



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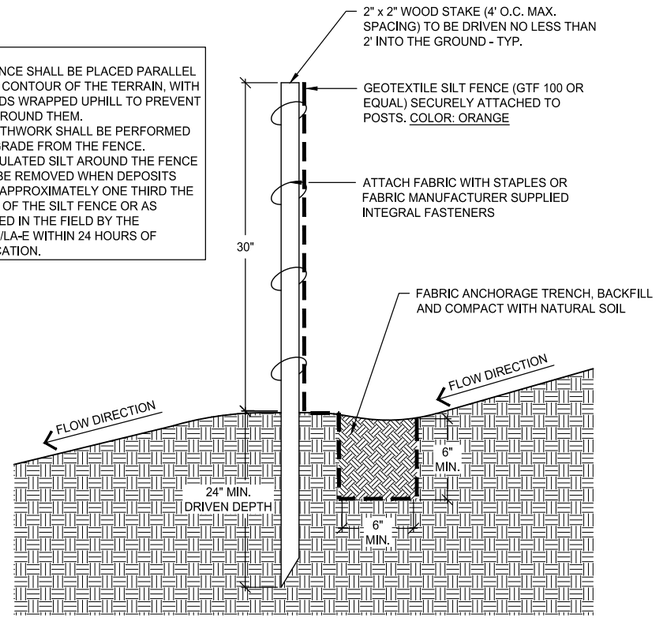
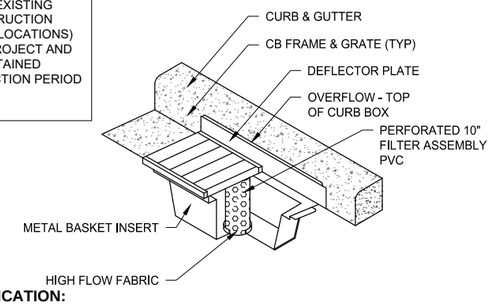
DETAILS

NOTES
1. SILT FENCE SHALL BE PLACED PARALLEL TO THE CONTOUR OF THE TERRAIN, WITH THE ENDS WRAPPED UPHILL TO PREVENT FLOW AROUND THEM.
2. NO EARTHWORK SHALL BE PERFORMED DOWNGRADE FROM THE FENCE.
3. ACCUMULATED SILT AROUND THE FENCE SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE SILT FENCE OR AS DIRECTED IN THE FIELD BY THE OWNER/LA-E WITHIN 24 HOURS OF NOTIFICATION.

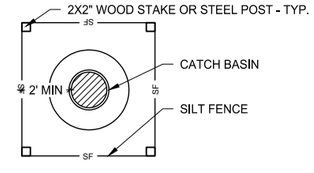


1 L6.0 **SILT FENCE DETAIL**
SCALE: NTS

WIMCO CURB & GUTTER INLET PROTECTION SHALL BE USED ON NEW AND EXISTING CATCH BASINS WITHIN CONSTRUCTION LIMITS (REFER TO PLANS FOR LOCATIONS) FOR THE DURATION OF THE PROJECT AND SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD WITH REMOVAL UPON TURF ESTABLISHMENT (TYP)

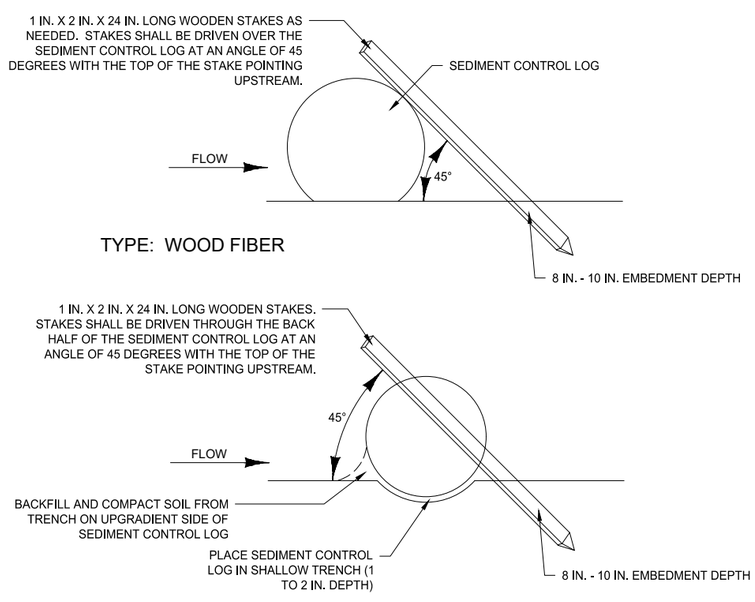


TYPE I - CURB INLET APPLICATION:

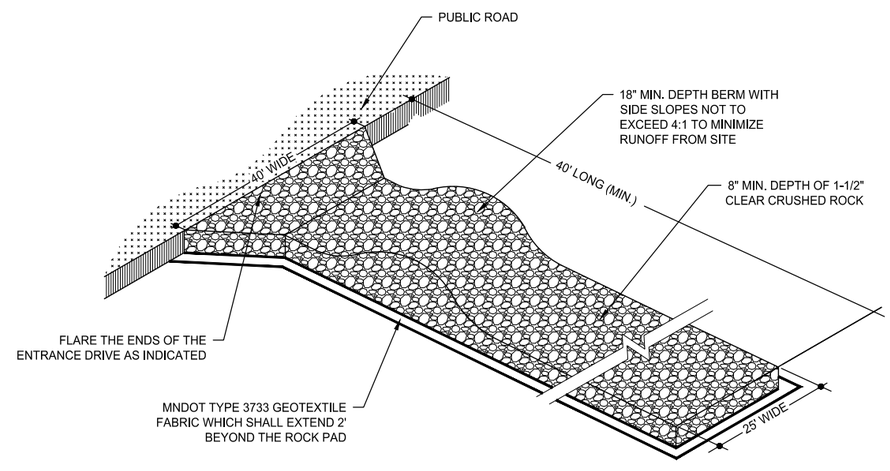


TYPE II - TRENCHED / SLOPE APPLICATION:

2 L6.0 **INLET PROTECTION DETAIL**
SCALE: NTS



3 L6.0 **SEDIMENT CONTROL LOG DETAIL**
SCALE: NTS



4 L6.0 **ROCK CONSTRUCTION ENTRY/EXIT DETAIL**
SCALE: NTS

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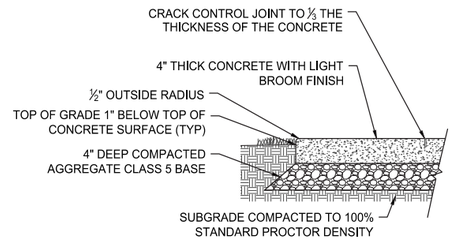
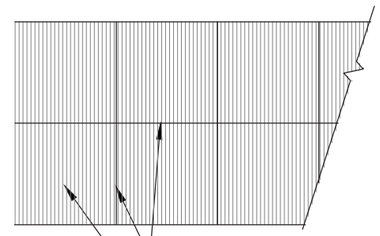
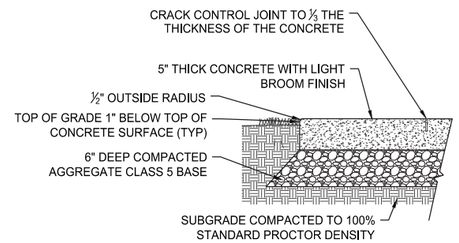


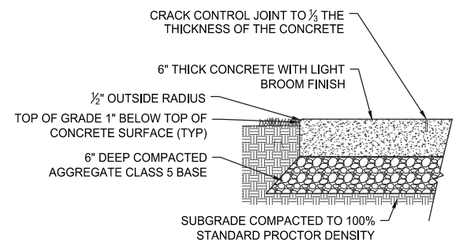
4" CONCRETE WALK SECTION
4" THICK CONCRETE (4000 PSI) OVER 4" THICK COMPACTED DEPTH OF MnDOT 3138 CLASS 5 CRUSHED AGGREGATE BASE COMPACTED TO 100% STANDARD PROCTOR DENSITY



CONCRETE FINISH - PLAN VIEW

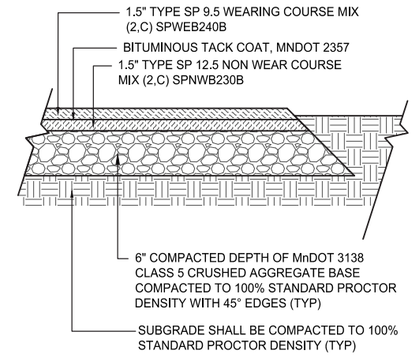


5" CONCRETE WALK SECTION
5" THICK CONCRETE (4000 PSI) OVER 6" THICK COMPACTED DEPTH OF MnDOT 3138 CLASS 5 CRUSHED AGGREGATE BASE COMPACTED TO 100% STANDARD PROCTOR DENSITY



6" CONCRETE WALK SECTION
6" THICK CONCRETE (4000 PSI) OVER 6" THICK COMPACTED DEPTH OF MnDOT 3138 CLASS 5 CRUSHED AGGREGATE BASE COMPACTED TO 100% STANDARD PROCTOR DENSITY

1 L6.1 CONCRETE WALK DETAIL
SCALE: NTS



2 L6.1 BITUMINOUS DRIVE PAVEMENT DETAIL
SCALE: NTS

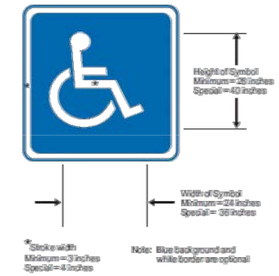
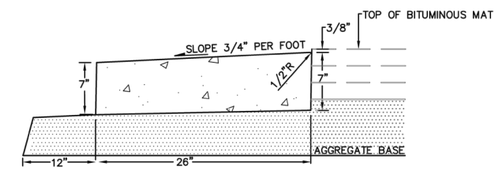


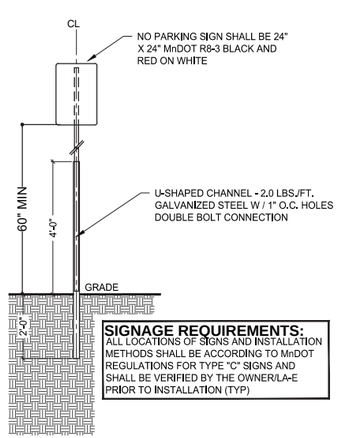
Figure 3B-22 International Symbol of Accessibility Parking Space Marking

3 L6.2 ACCESSIBLE PARKING SYMBOL
SCALE: NTS

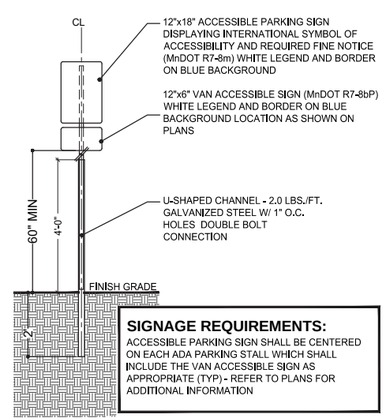


RIBBON CURB

4 L6.1 RIBBON CURB DETAIL
SCALE: NTS



ADA PARKING SIGN (NO PARKING SIGN)

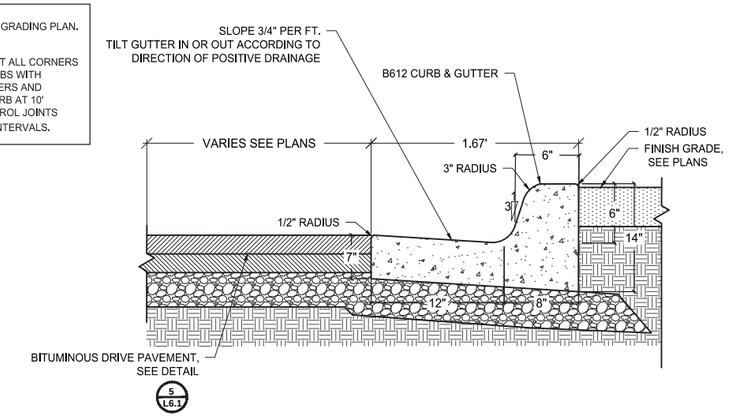


ADA PARKING SIGN

5 L6.2 ACCESSIBLE PARKING SIGN
SCALE: NTS

GUTTER GRADE:
GUTTER SLOPE SHALL DRAIN ACCORDING TO GRADING PLAN.

CURB CONTROL JOINT NOTE:
CRACK CONTROL JOINTS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS OF THE CONCRETE CURBS WITH JOINTS EQUALLY SPACED IN BETWEEN CORNERS AND INTERSECTIONS ALONG ALL SECTIONS OF CURB AT 10' MAXIMUM INTERVALS. REPLACE CRACK CONTROL JOINTS WITH ⅜" EXPANSION JOINTS AT 30' MAXIMUM INTERVALS.



6 L6.1 B612 CONCRETE CURB AND GUTTER DETAIL
SCALE: NTS

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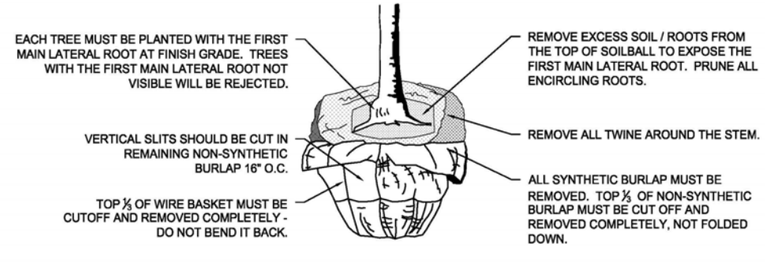
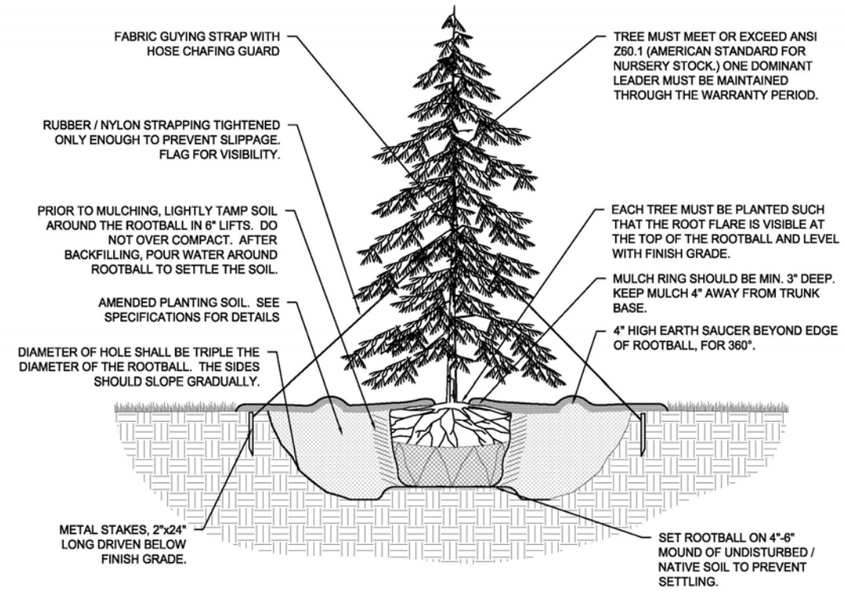
DETAILS

BALLED AND BURLAPPED STOCK - PLANTING NOTES:

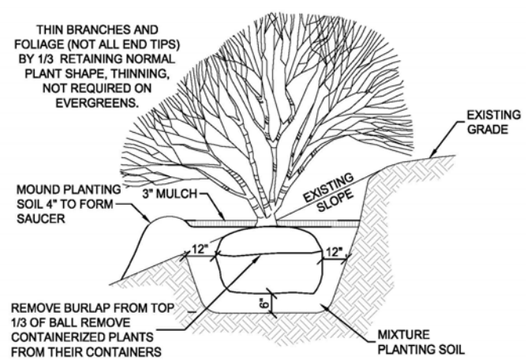
1. ROOTS OF ALL BALLED AND BURLAPPED STOCK SHALL FILL THE SOIL BALL, BE FREE OF KINKS, CIRCLING AND GIRDLING, AND THE UPPERMOST ROOTS SHALL NOT BE MORE THAN FOUR INCHES BELOW THE TOP OF THE SOIL BALL. TRANSPORT ROOTS SHALL BE SYMMETRICAL AROUND THE TRUNK / STEM OF THE PLANTS. SOIL BALLS MUST BE CENTERED OR NO MORE THAN 10% OFF CENTER.
2. WHEN MOVING PLANTS, LIFT FROM BENEATH THE ROOT BALL, DO NOT LIFT BY THE TRUNK AND DO NOT BREAK OR LOOSEN THE ROOTBALL.
3. BACKFILL PLANTING PIT WITH ORIGINAL SOIL HALFWAY TO THE TOP OF THE ROOTBALL. BREAK UP CLODS OF SOIL. IF SOILS ARE POOR (I.E. HEAVY CLAYS, SAND, OR COMPACTED), BACKFILL CAN BE A MIXTURE OF 1/3 SOIL AMENDMENT MIXED WITH 2/3 ORIGINAL SOIL. DO NO USE PEAT AS PART OF BACKFILL IN CLAY SOILS. REMOVE ALL ROCKS AND DEBRIS FROM BACKFILL AND THEN WATER PLANT AND BACKFILLED AREA TO SETTLE PLANTS AND FILL VOIDS.
4. REMOVE ALL WIRE BASKETS FROM THE TOP 1/2 OF THE ROOTBALL AND CONTINUE BACKFILLING REMAINING PLANTING PIT WITH ORIGINAL SOIL.
5. WATER THOROUGHLY A SECOND TIME TO SETTLE PLANTS AND FILL VOIDS WITHIN TWO HOURS OF PLANTING. PLACE SPECIFIED MULCH WITHIN 48 HOURS OF THE SECOND WATERING. PROVIDE SUPPORT IF NECESSARY.
6. STAKING OF TREES SHALL BE THE CONTRACTORS OPTION. THE CONTRACT IS RESPONSIBLE FOR INSURING THAT ALL PLANTINGS ARE INSTALLED PLUMB AND REMAIN PLUMB THROUGHOUT THE WARRANTY PERIOD OR 1 YEAR AFTER SUBSTANTIAL COMPLETION, WHICHEVER IS GREATER.
7. IF STAKING IS INSTALLED ALL COMPONENTS SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF THE WARRANTY PERIOD.

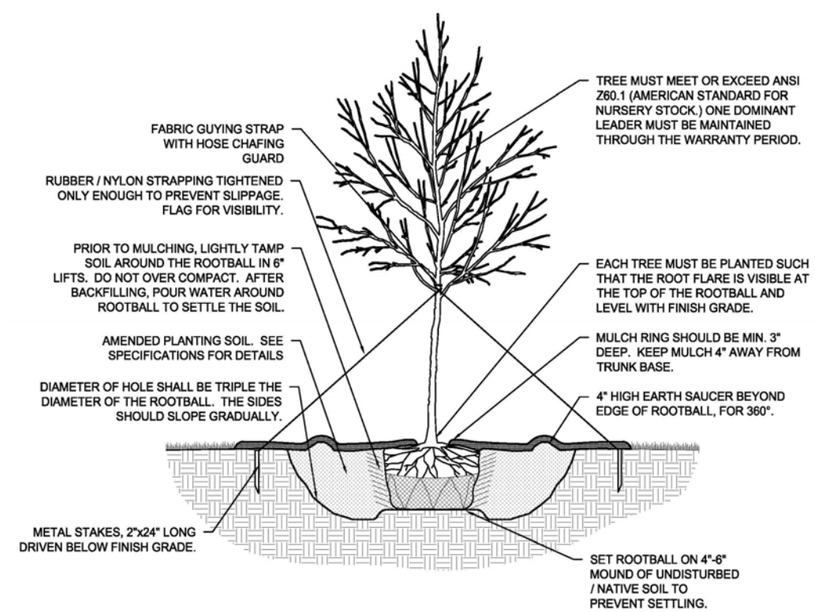


1 L6.3 **B&B PLANTING DETAIL**
SCALE: NTS

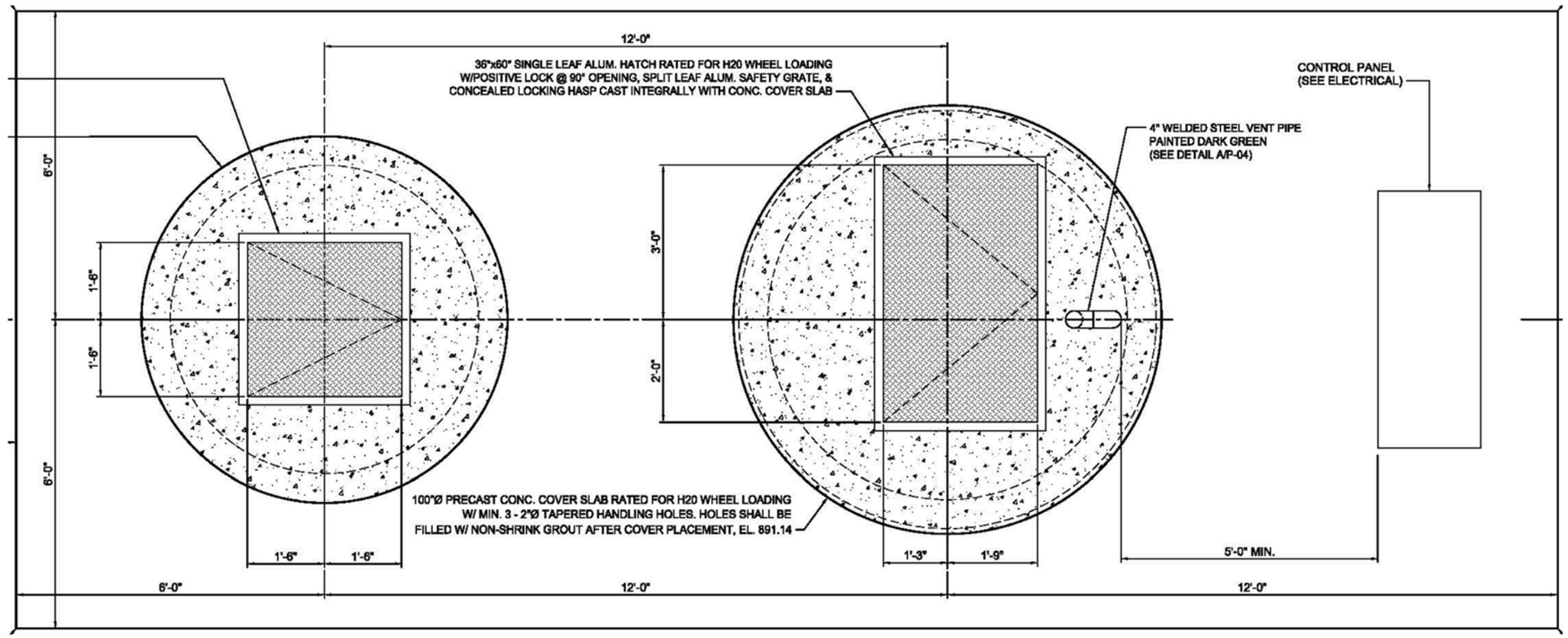


2 L6.3 **CONIFEROUS TREE PLANTING DETAIL**
NTS





LIFT STATION PLAN



1 P-01 COVER SLAB PLAN
SCALE: NTS

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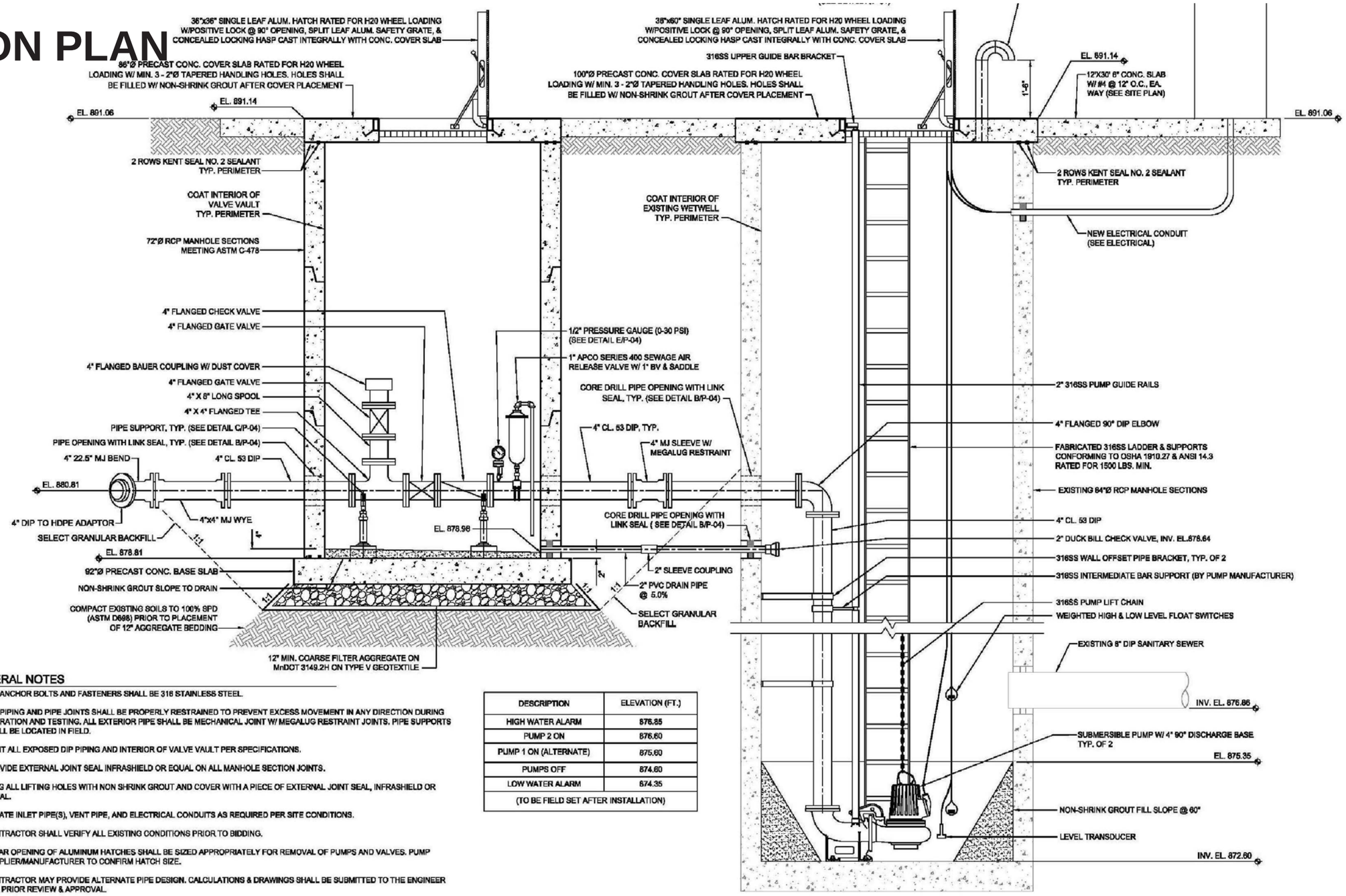
LIFT STATION PLAN



GENERAL NOTES

1. ALL ANCHOR BOLTS AND FASTENERS SHALL BE 316 STAINLESS STEEL.
2. ALL PIPING AND PIPE JOINTS SHALL BE PROPERLY RESTRAINED TO PREVENT EXCESS MOVEMENT IN ANY DIRECTION DURING OPERATION AND TESTING. ALL EXTERIOR PIPE SHALL BE MECHANICAL JOINT W/ MEGALUG RESTRAINT JOINTS. PIPE SUPPORTS SHALL BE LOCATED IN FIELD.
3. PAINT ALL EXPOSED DIP PIPING AND INTERIOR OF VALVE VAULT PER SPECIFICATIONS.
4. PROVIDE EXTERNAL JOINT SEAL INFRASHIELD OR EQUAL ON ALL MANHOLE SECTION JOINTS.
5. PLUG ALL LIFTING HOLES WITH NON SHRINK GROUT AND COVER WITH A PIECE OF EXTERNAL JOINT SEAL, INFRASHIELD OR EQUAL.
6. LOCATE INLET PIPE(S), VENT PIPE, AND ELECTRICAL CONDUITS AS REQUIRED PER SITE CONDITIONS.
7. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING.
8. CLEAR OPENING OF ALUMINUM HATCHES SHALL BE SIZED APPROPRIATELY FOR REMOVAL OF PUMPS AND VALVES. PUMP SUPPLIER/MANUFACTURER TO CONFIRM HATCH SIZE.
9. CONTRACTOR MAY PROVIDE ALTERNATE PIPE DESIGN. CALCULATIONS & DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR PRIOR REVIEW & APPROVAL.
10. ALL INTERIOR PIPING SHALL BE WELDED FLANGED CLASS 53 DIP.
11. ALL BURIED DIP SHALL BE ENCASED IN POLYETHYLENE PER ANSI/AWWA C105.

DESCRIPTION	ELEVATION (FT.)
HIGH WATER ALARM	876.85
PUMP 2 ON	876.60
PUMP 1 ON (ALTERNATE)	875.60
PUMPS OFF	874.60
LOW WATER ALARM	874.35
(TO BE FIELD SET AFTER INSTALLATION)	

SECTION

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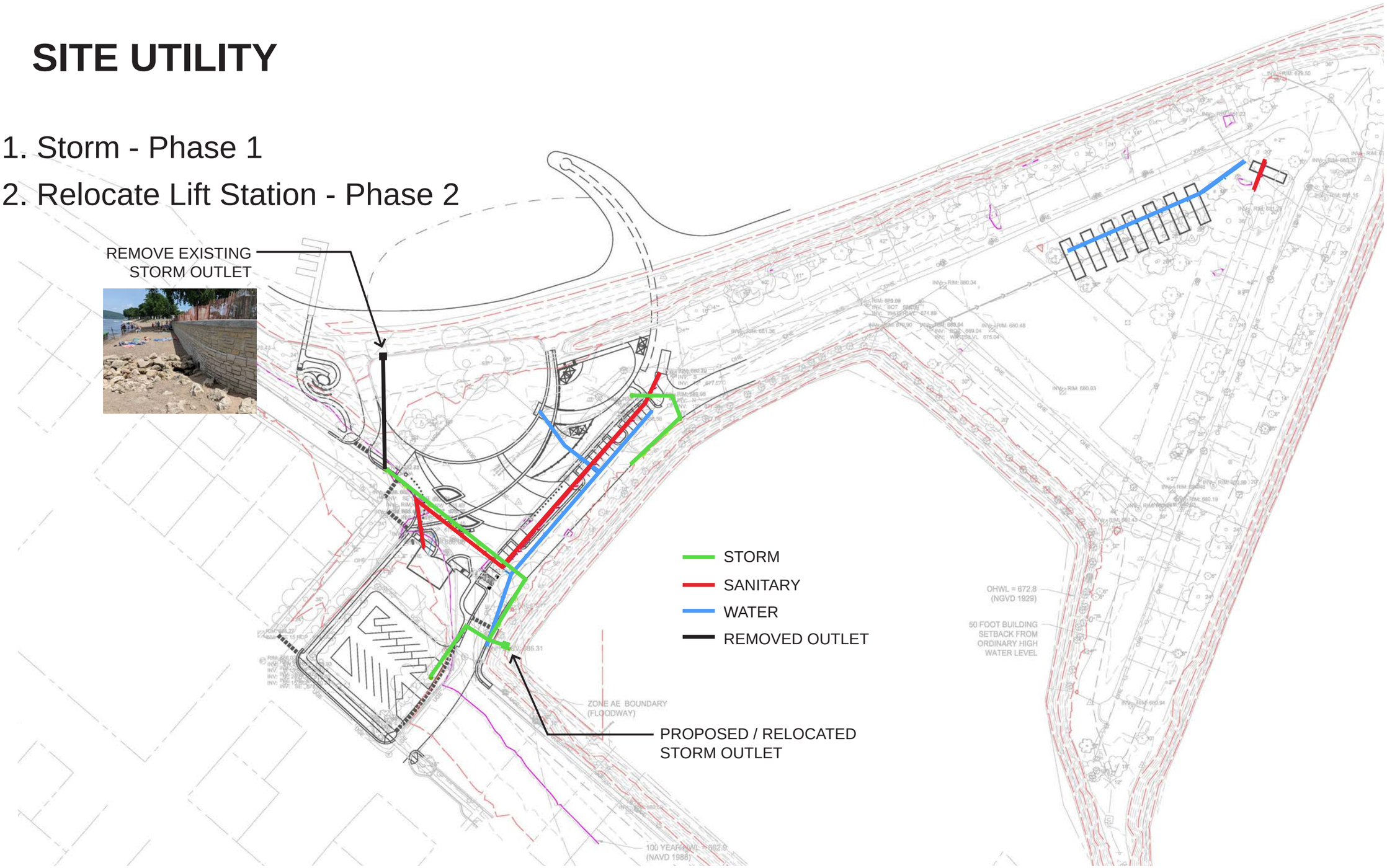
SITE UTILITY

1. Storm - Phase 1
2. Relocate Lift Station - Phase 2



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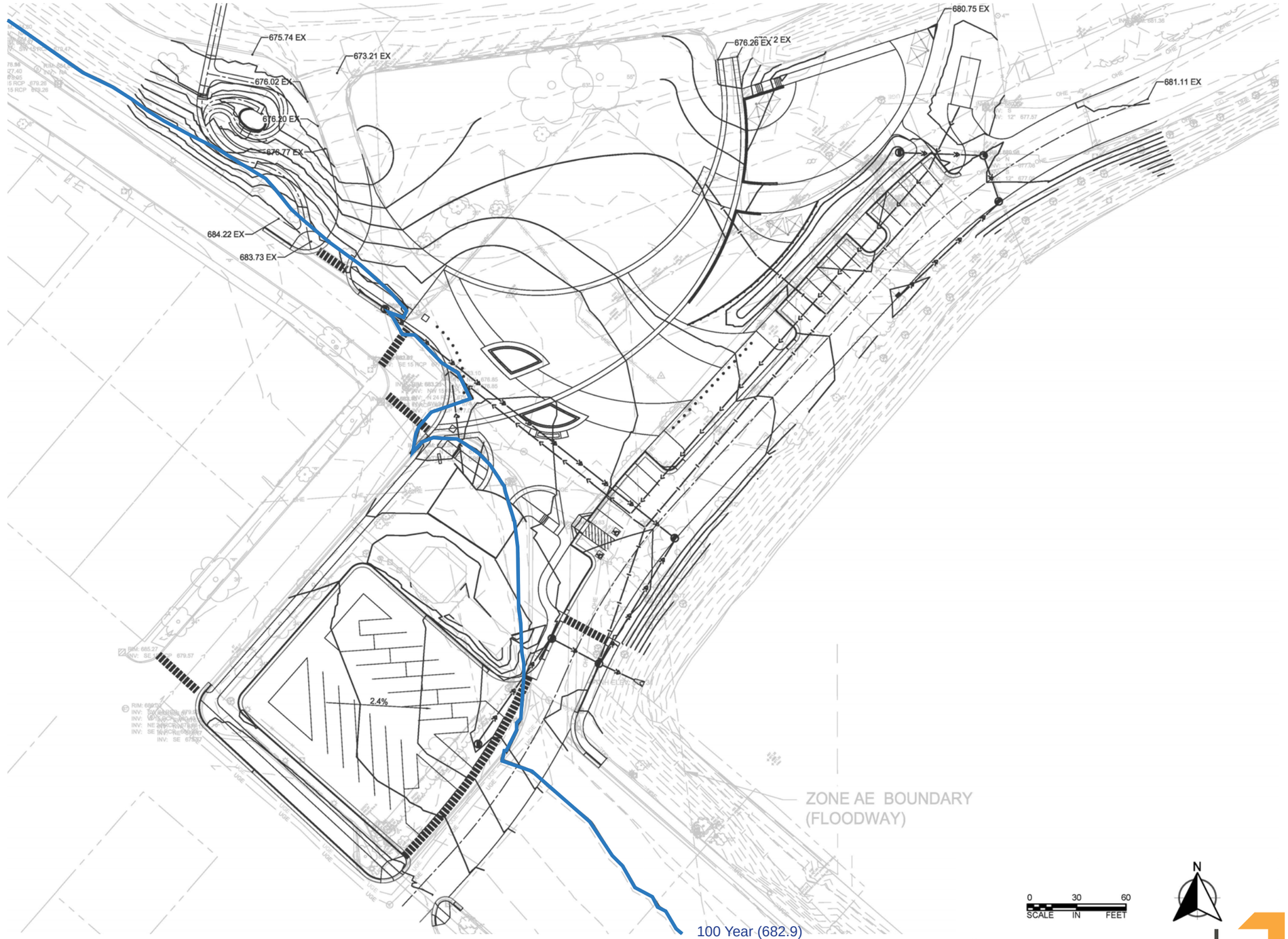
SITE GRADING



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RESTORATION PLAN

TREE PALETTE

DECIDUOUS TREE SPECIES

Red Maple

Swamp White Oak

Littleleaf Linden

Discovery Elm

ORNAMENTAL TREE SPECIES

Crabapple

Serviceberry

Japanese Lilac

CONIFEROUS TREE SPECIES

White Pine

White Spruce

BEACH INSPIRED AESTHETIC

SHRUB / PERENNIAL PALETTE

FEATURED SPECIES

Switch Grass

Blue Oat Grass

Daylily sp.

Catmint

Mugo White Bud

SCREENING SPECIES

Maiden Grass

Sedum

Black-Eyed-Susan

Dogwood sp.

Hetz Juniper

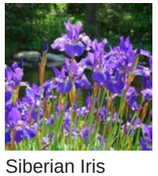
RAIN GARDEN SPECIES

Karl Foerster

Little Bluestem

Joe Pye Weed

Coneflower


Siberian Iris

TURF

0 30 60
SCALE IN FEET

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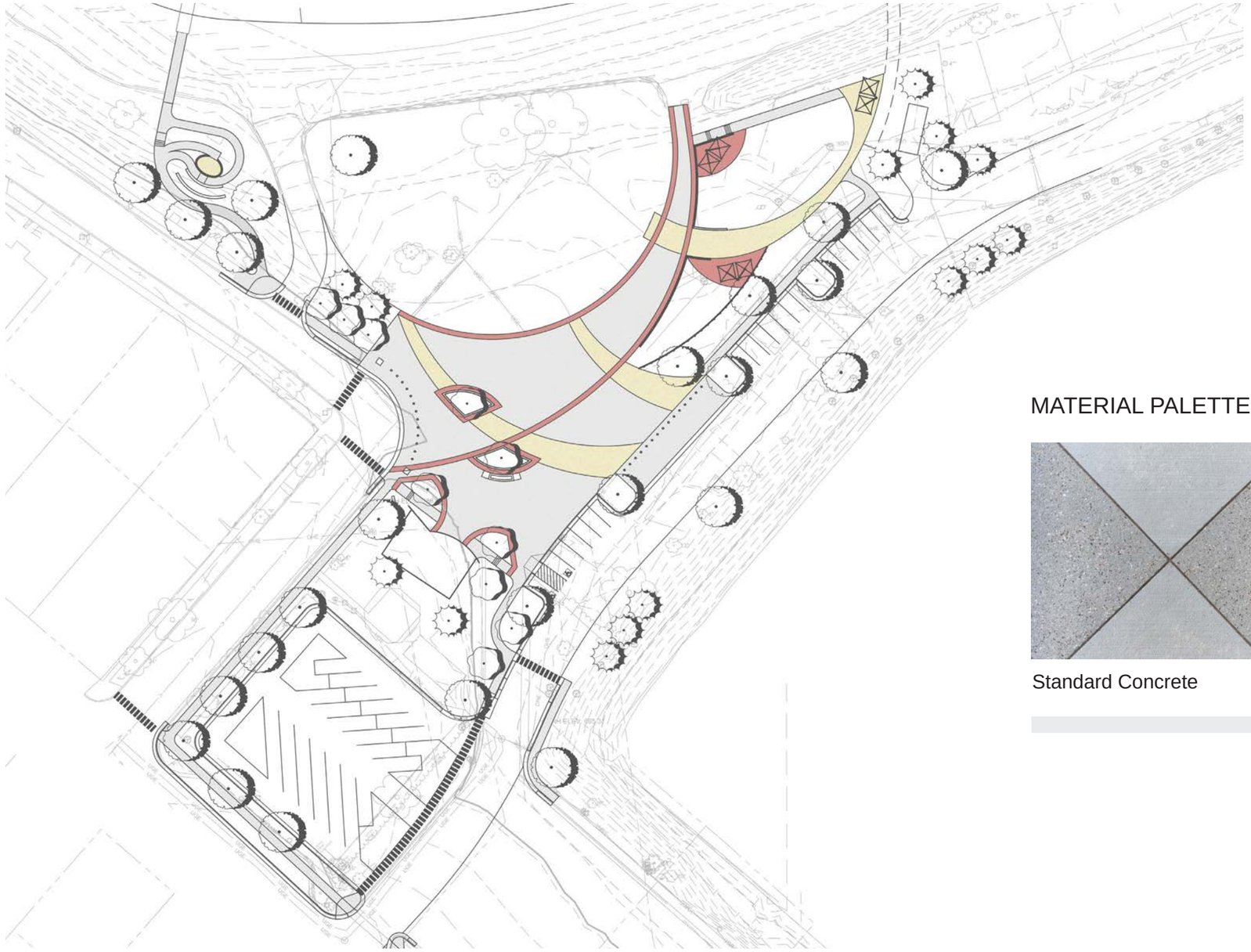
PAVEMENT PLAN



MATERIAL PALETTE GUIDE:

Standard Concrete

Decorative Pavement

Accent Banding

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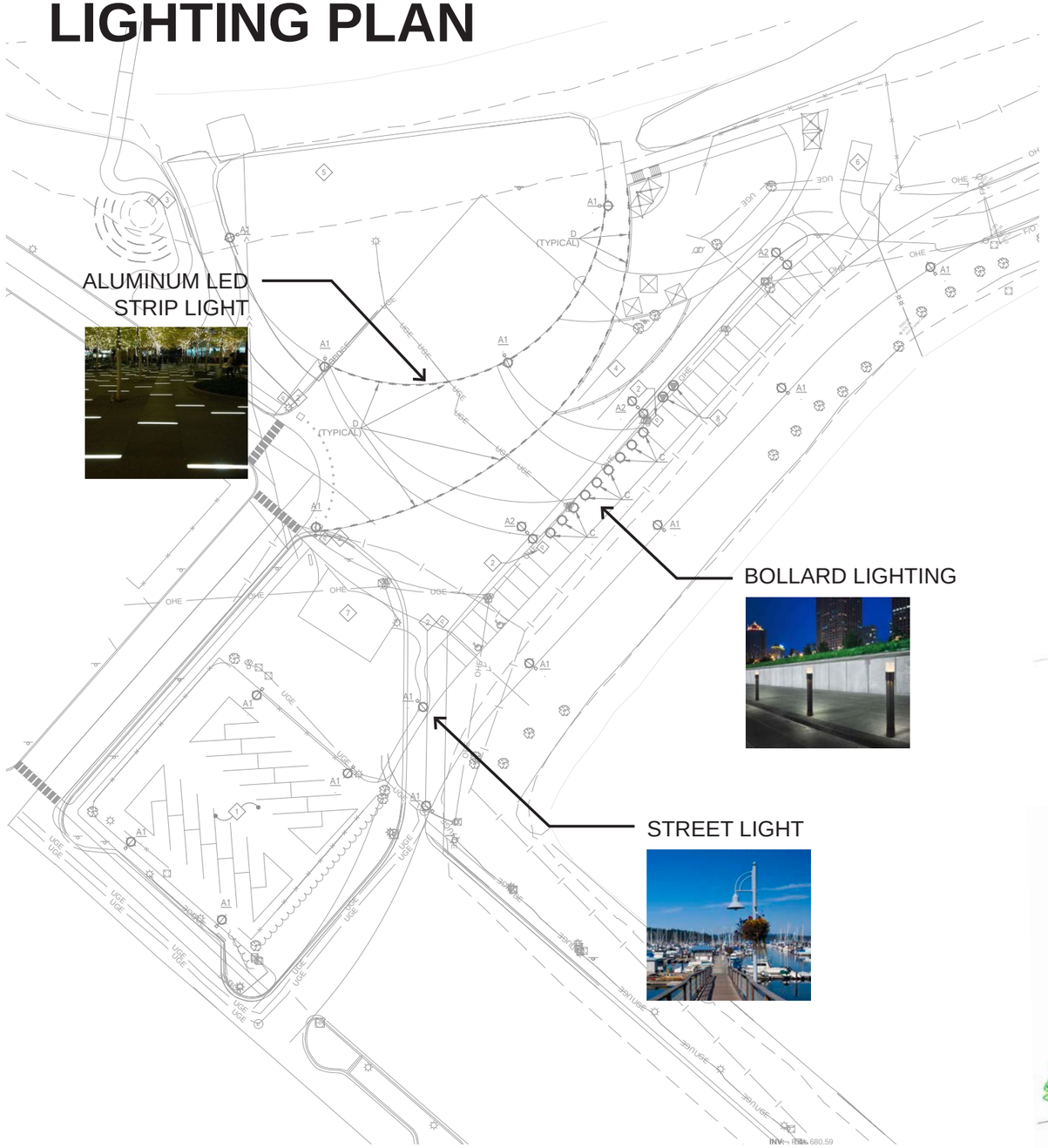
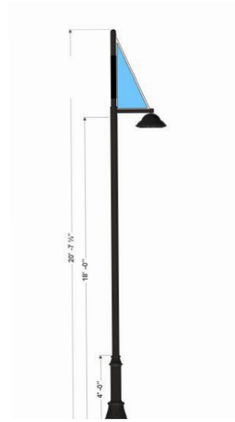
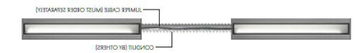
LIGHTING PLAN



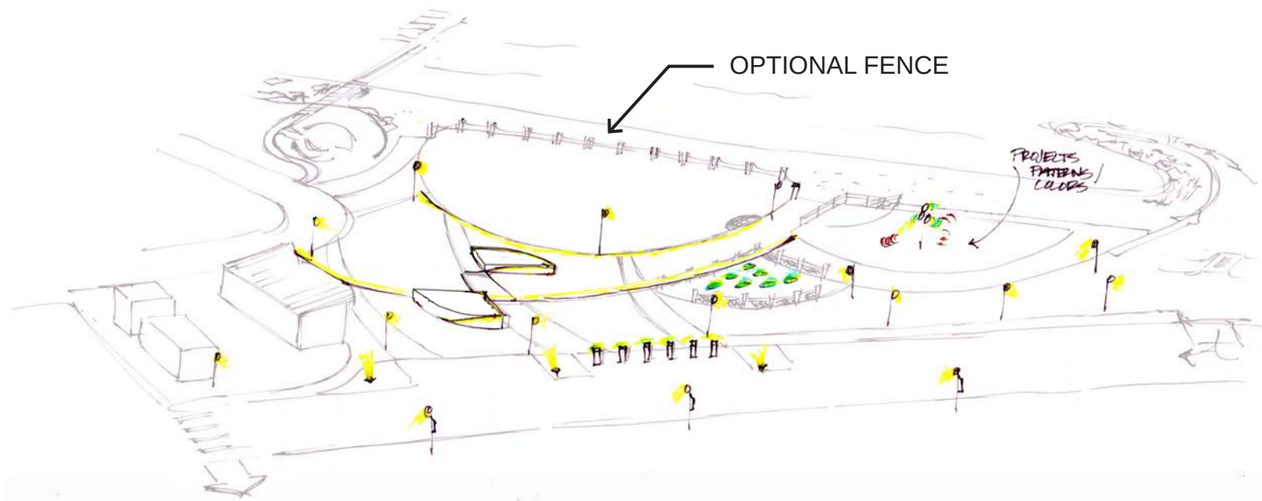


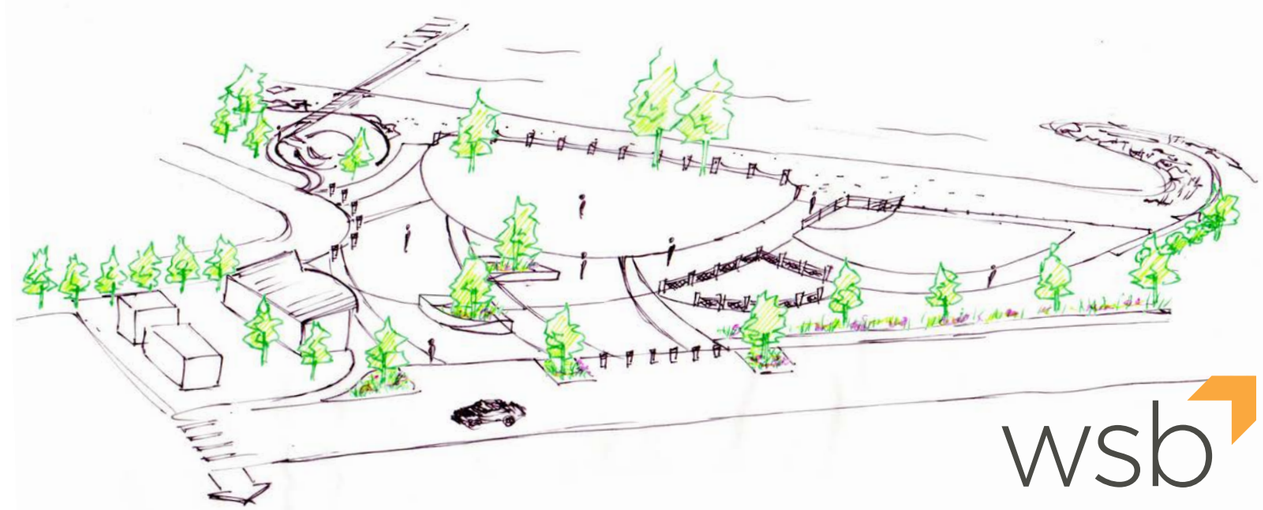
STREET LIGHT

BOLLARD LIGHTING



PAVEMENT STRIP LIGHT





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PLAZA SPACE - SITE AMENITIES

MATCH EXISTING WALL

METAL/CABLE FENCE OPTION

CONCRETE SEAT WALL FORM

FIRE TABLE (GAS)

BENCH SEATING

TABLES

BIKE RACK

TRASH RECEPTACLES

COLORED SEATING CANOPY

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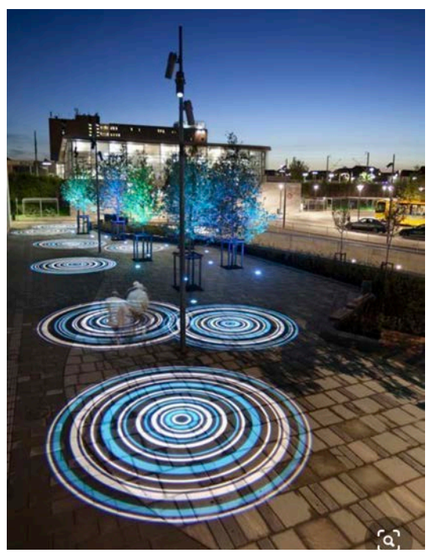
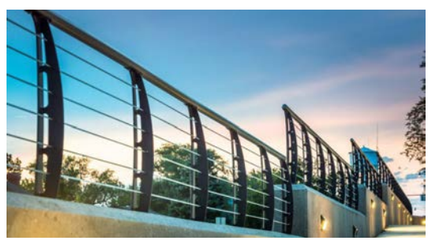
PLAYGROUND AREA

1. Vendor to Fit Design Shape
2. Nautical Themed Boat Play
3. Retaining Wall and Railing

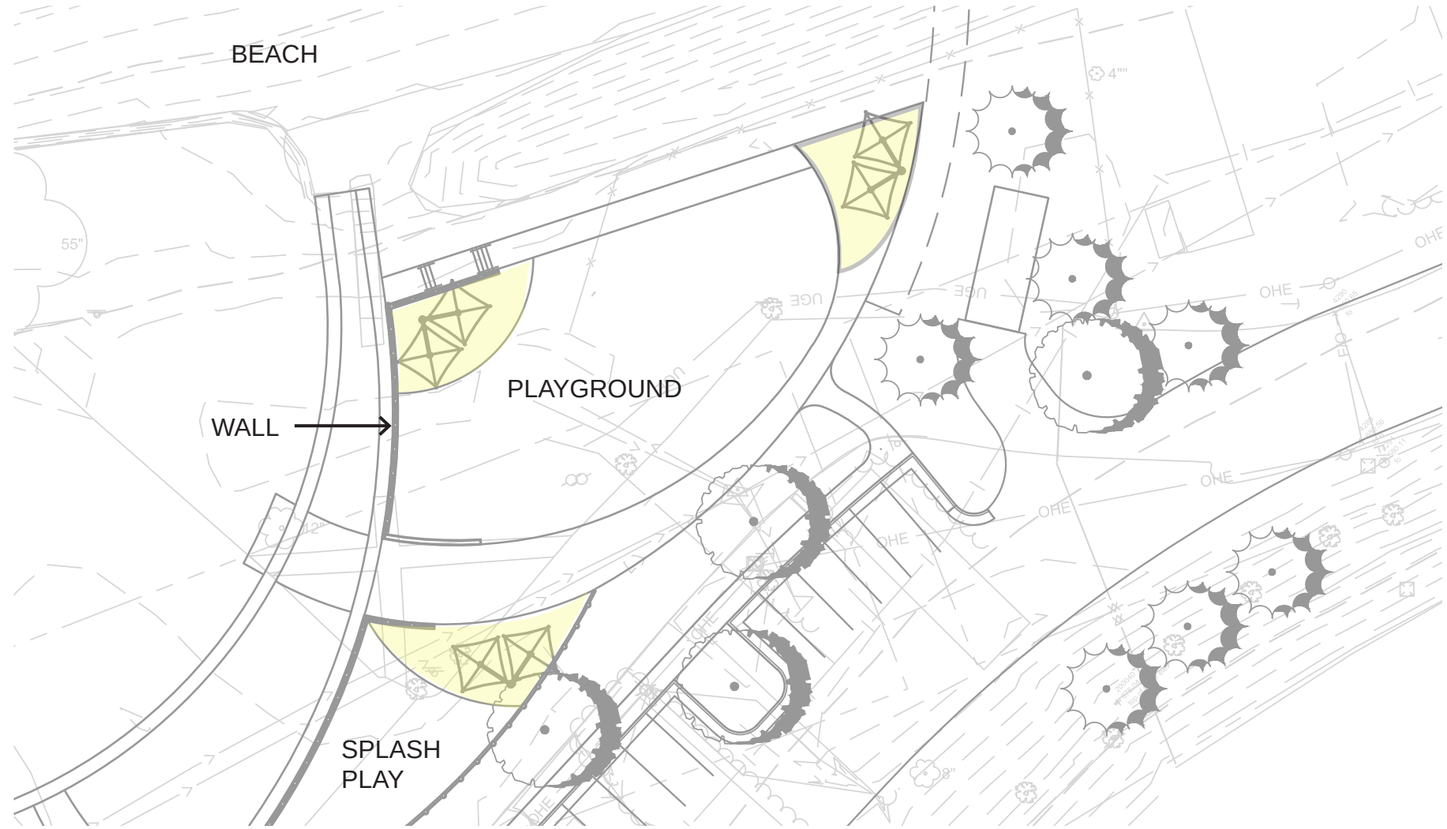


LIGHTED PLAY AREA (IN CENTER)

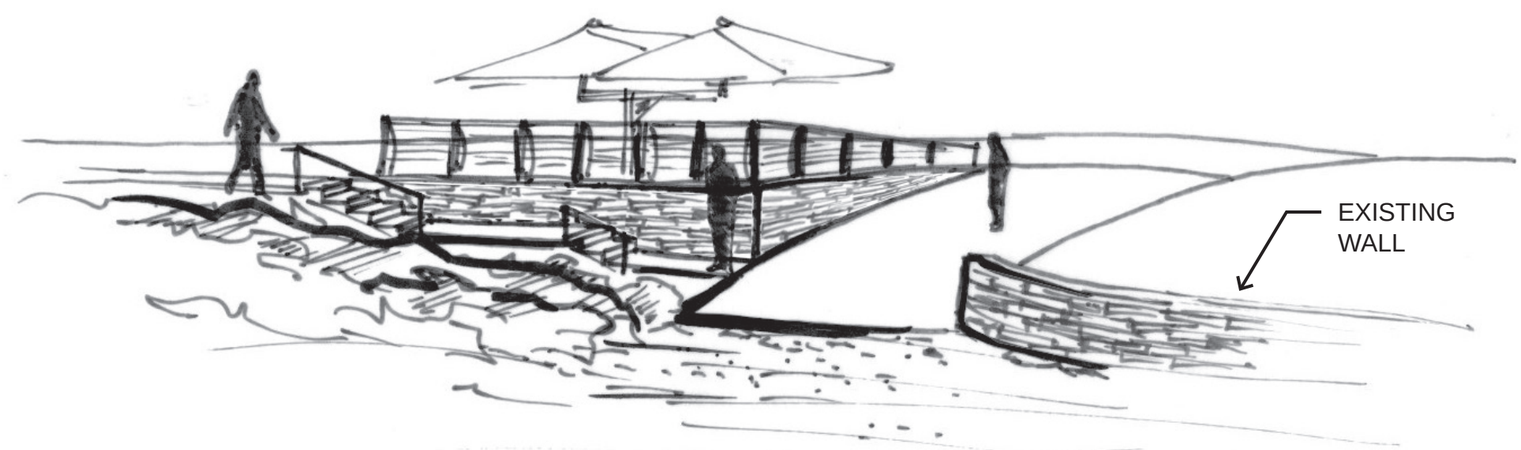
MATCH EXISTING WALL



RAILING



SEATING AREAS



VIEW LOOKING FROM BEACH TOWARDS PLAYGROUND

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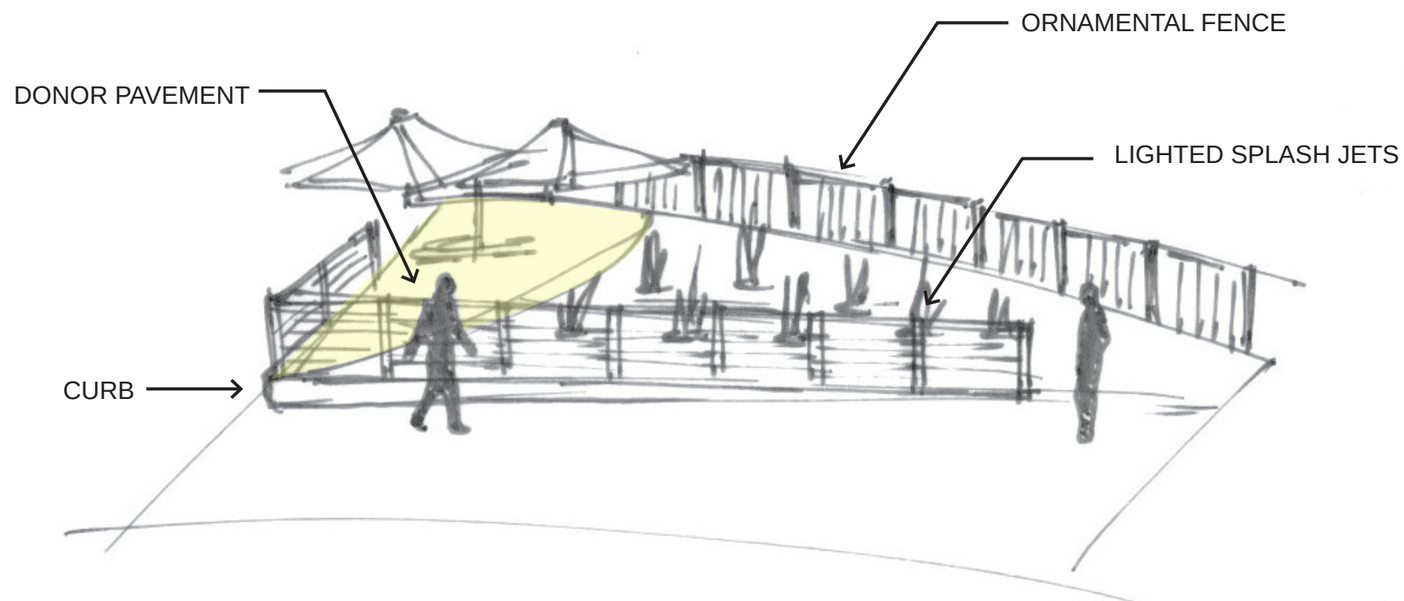
SPLASH PLAY AREA

1. Colored Jet Lights
2. Ornamental Safety Fence
3. Donor Recognition Options

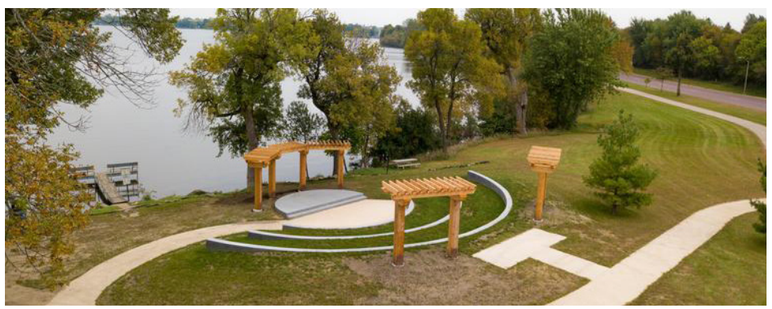
DONOR PAVEMENT EXAMPLE



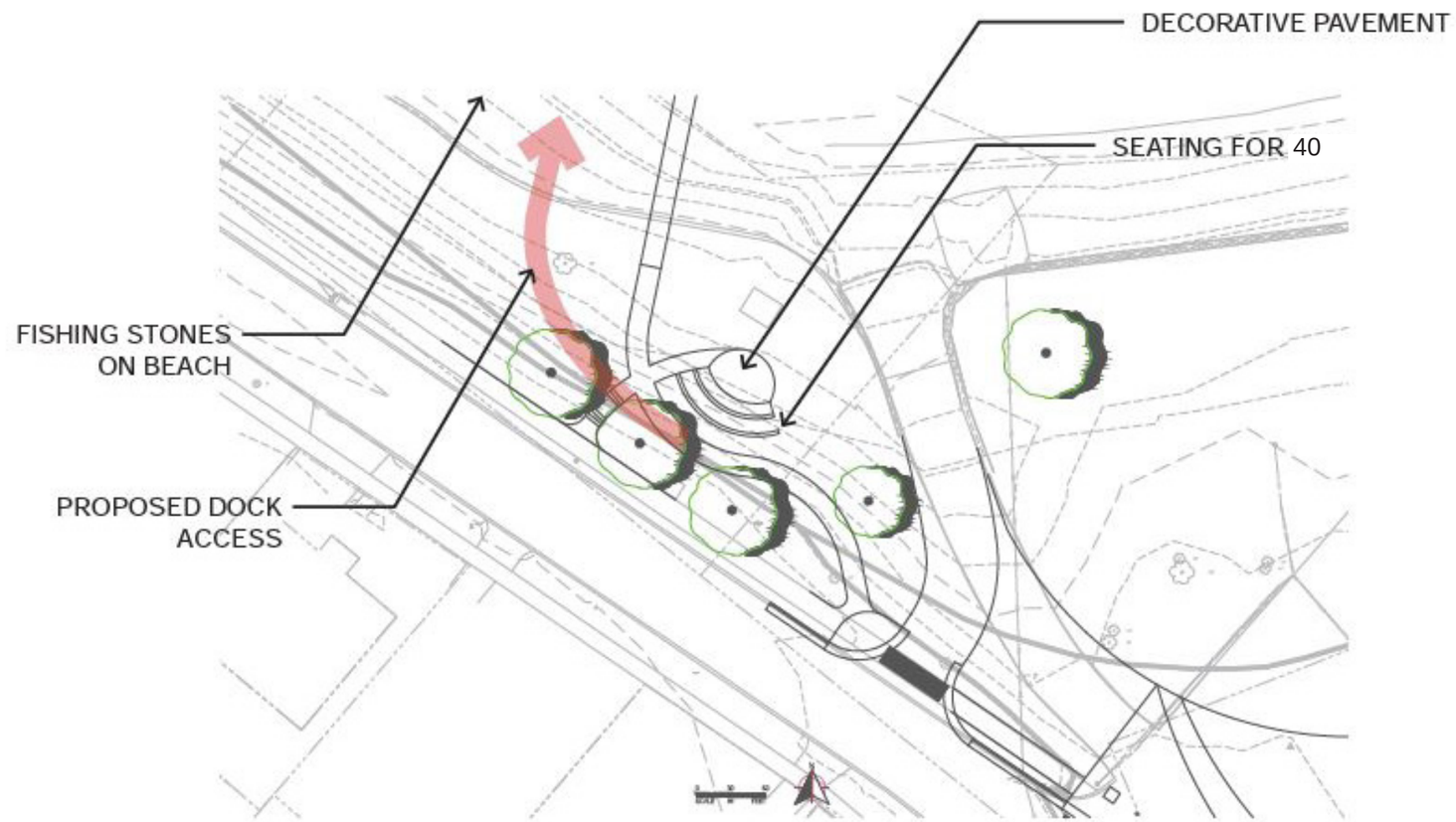
VIEW LOOKING FROM LAWN AND PLAZA TOWARDS SPLASH PLAY

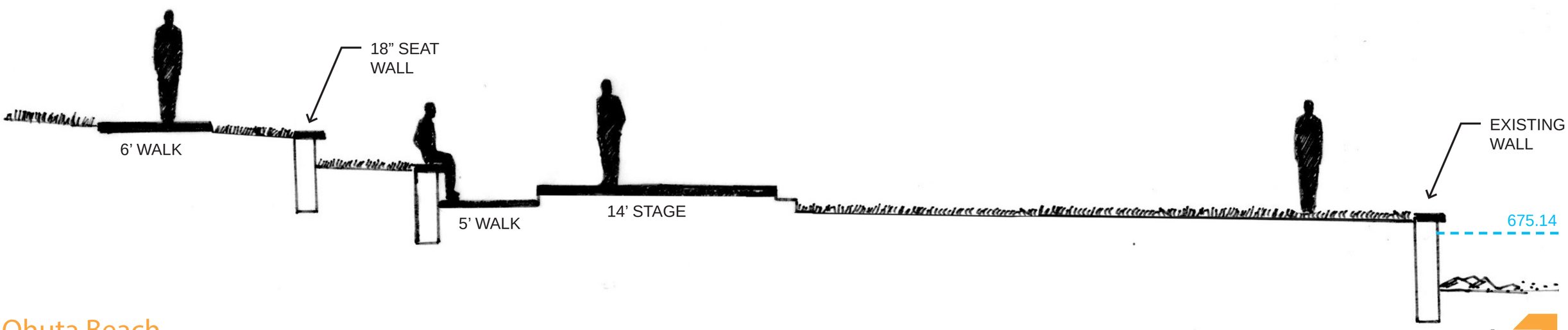
AMPHITHEATER

1. Elevated Stage
2. Seat Wall Seating: 40 People
3. Lawn Seating: 80 People
3. ADA Accessible



AMPHITHEATER EXAMPLE





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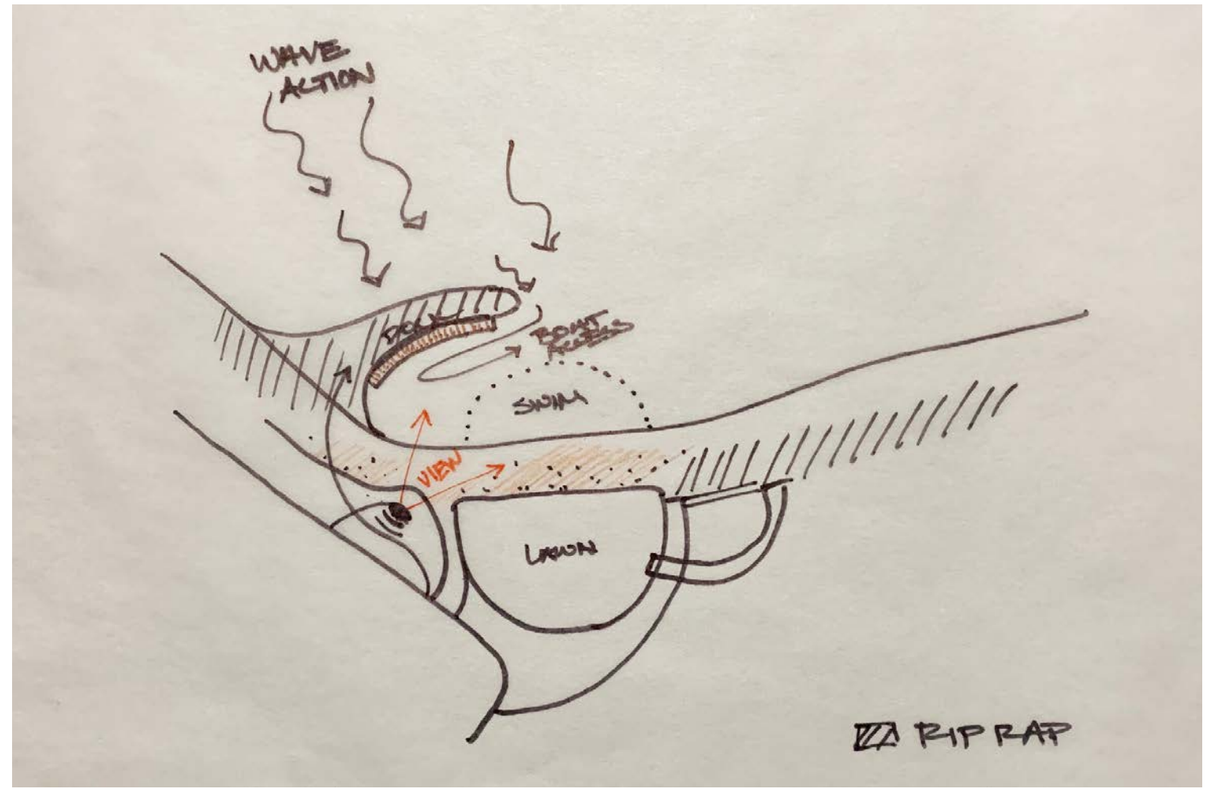
BREAKWATER

BREAKWATER EXAMPLE - TRAVERSE CITY, MI



OHUTA BEACH BREAKWATER OPTION

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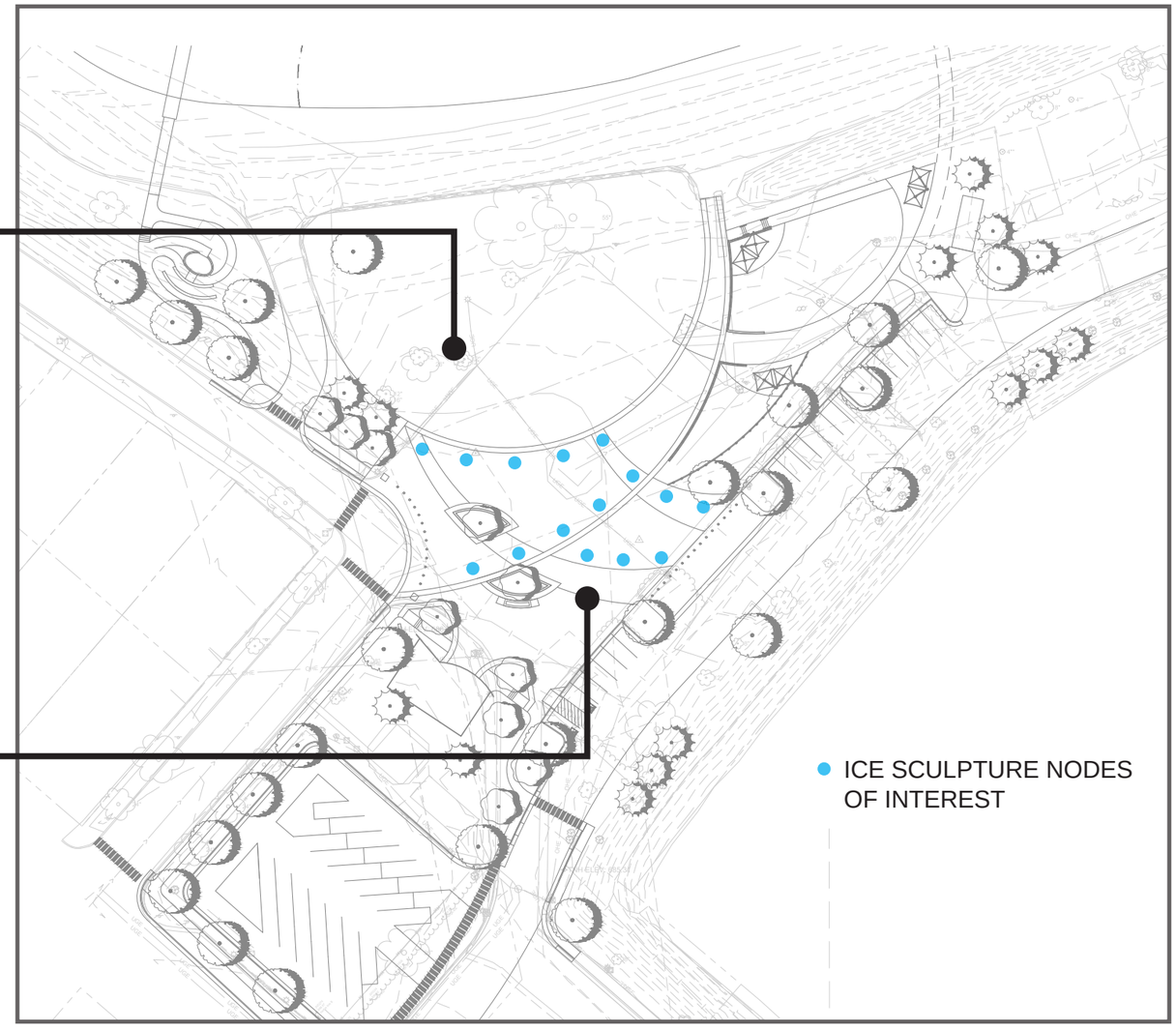
WINTER PROGRAMMING

ICE SKATING (TURF MAINTENANCE REQUIRED)

WINTER FESTIVALS



SURROUNDING PROGRAMS

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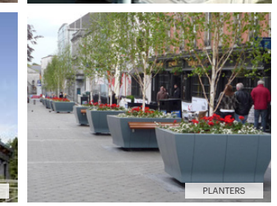
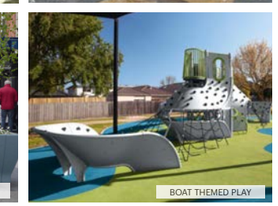
MASTER PLAN SUMMARY FOR REFERENCE





- Flexible Plaza Space for Events
- Jet Splash Play
- Nautical Themed Playground
- Flexible-open Lawn Space
- Expanded Parking
- Restroom / Bath House Building
- Small Watercraft Access
- Amphitheater Area
- Boarding Dock
- Downtown Connection
- Beach Access
- Water Break

ADDED FEATURES

- Fire Pit Area
- Donor Recognition

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EXISTING CONDITIONS FOR REFERENCE

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