

S. I. Zoo Clove Road Restoration

Project ID: PV175CLOV

614 Broadway Staten Island Zoo
Staten Island, NY 10310

PUBLIC DESIGN COMMISSION

Preliminary Review

Presentation Date: 4.15.2024

AOR: nARCHITECTS, PLLC

Consultants: Silman, Collectif, Sam Schwartz, EKLA, Gecko Group, Crystal Mckenzie, Shen Milsom & Wilke, Socotec



Borough

2 miles



Neighborhood

1000 FT



Site

100 FT



1 Clove Road Entrance showing existing vehicular and pedestrian curb cuts and crosswalk

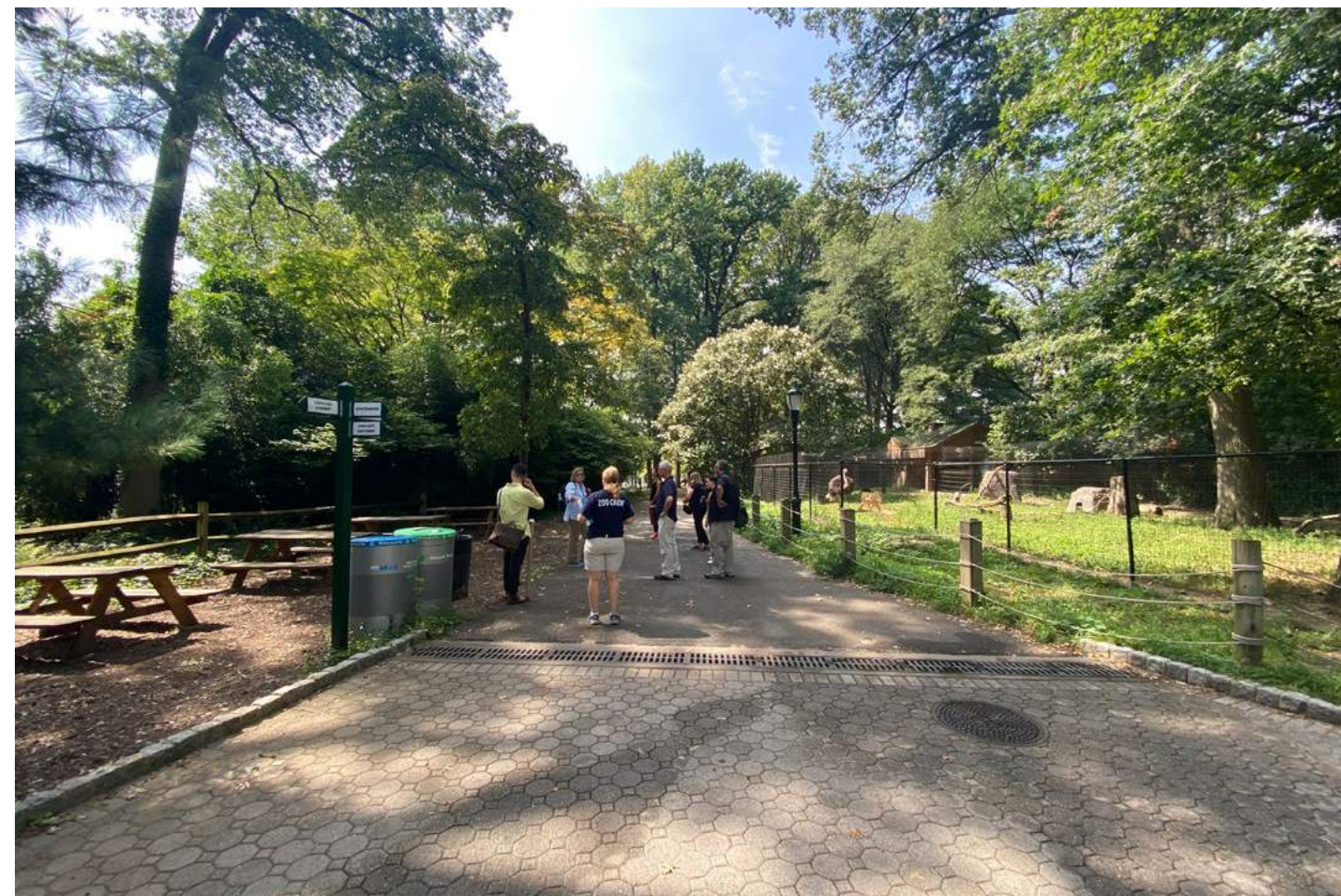


2 Pedestrian walkway out to Clove Road

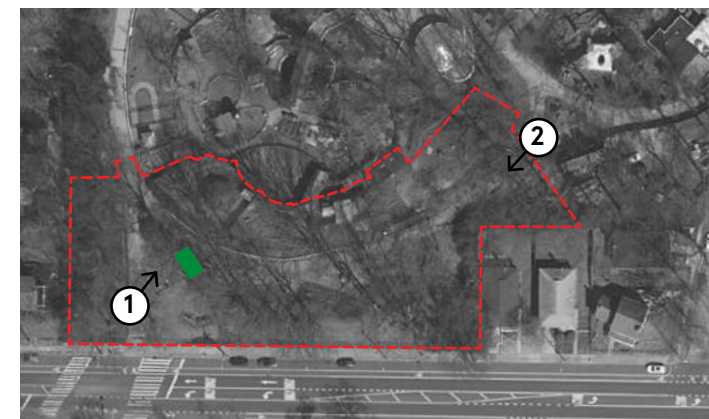




1 Service Access (left) and Ticketing Kiosk (right)
See corresponding proposed view on p.27



2 NE edge of Project boundary
See corresponding proposed view on p.28





1 Service Access



2 Pedestrian walkway back to Entrance/Exit
Dinosaur Sculptures in buffer along Clove Road (left)
Australian Exhibit (right)



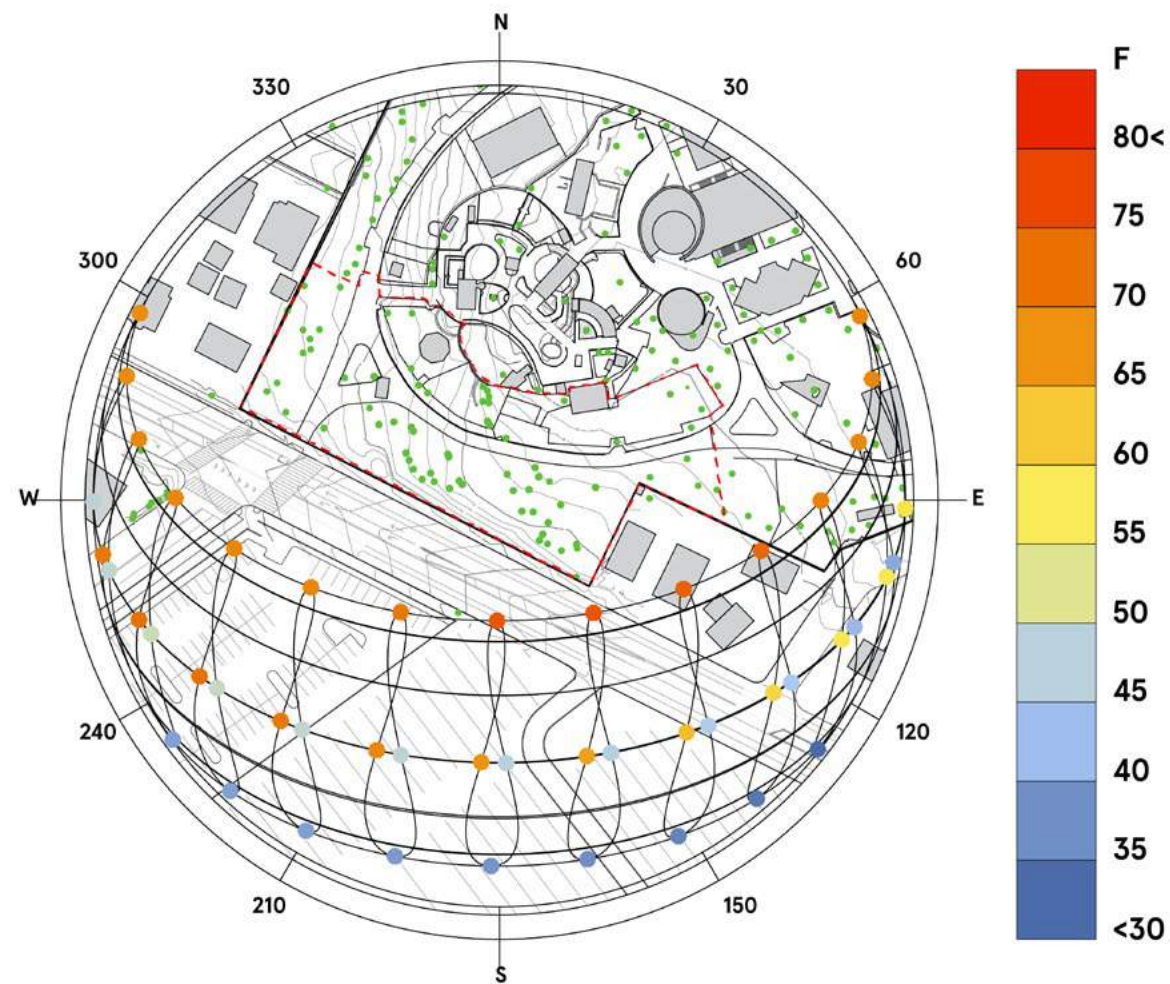


2 Dinosaurs Sculptures in buffer along Clove Road



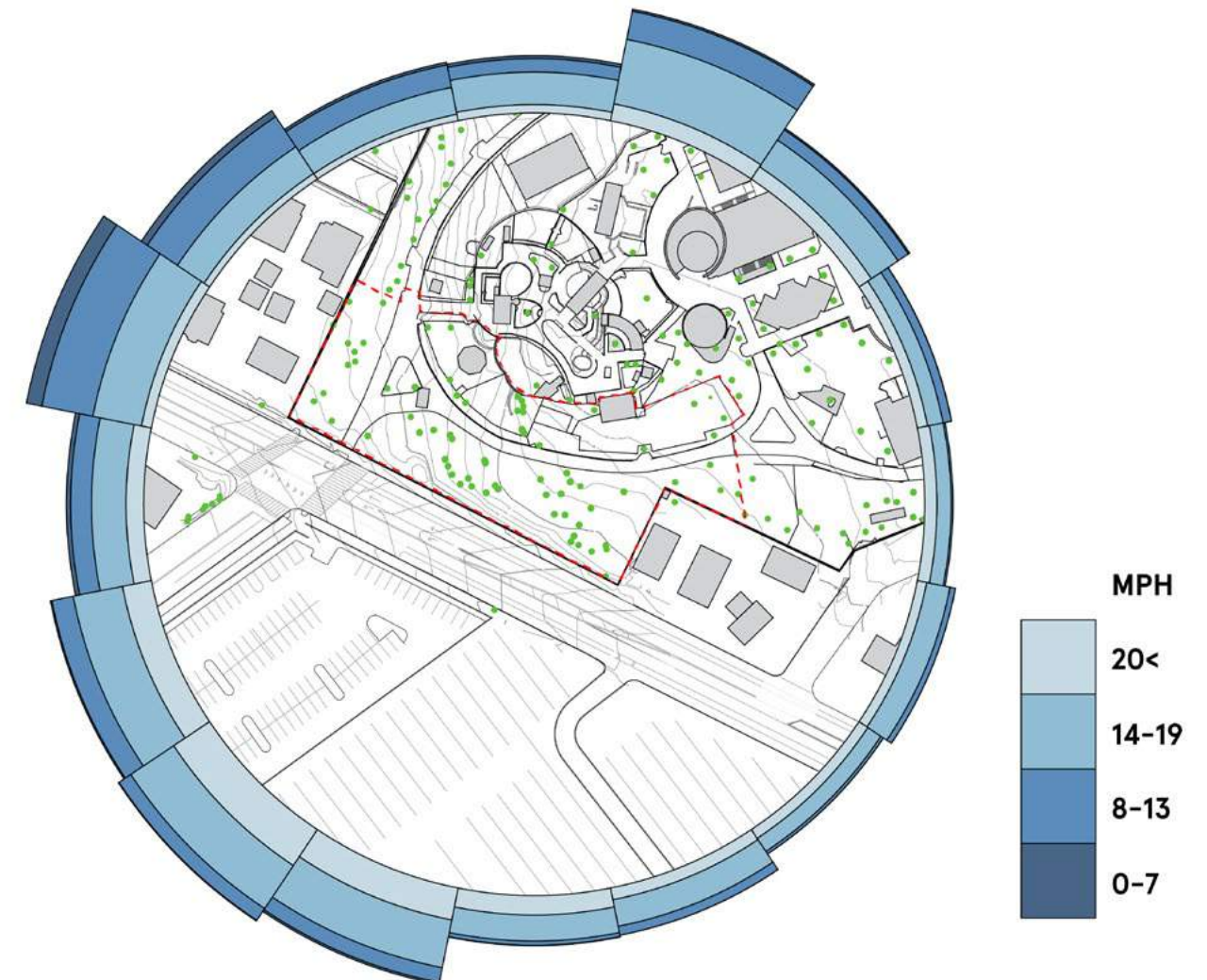
2 Wooded buffer along Clove Road





Sunpath Diagram

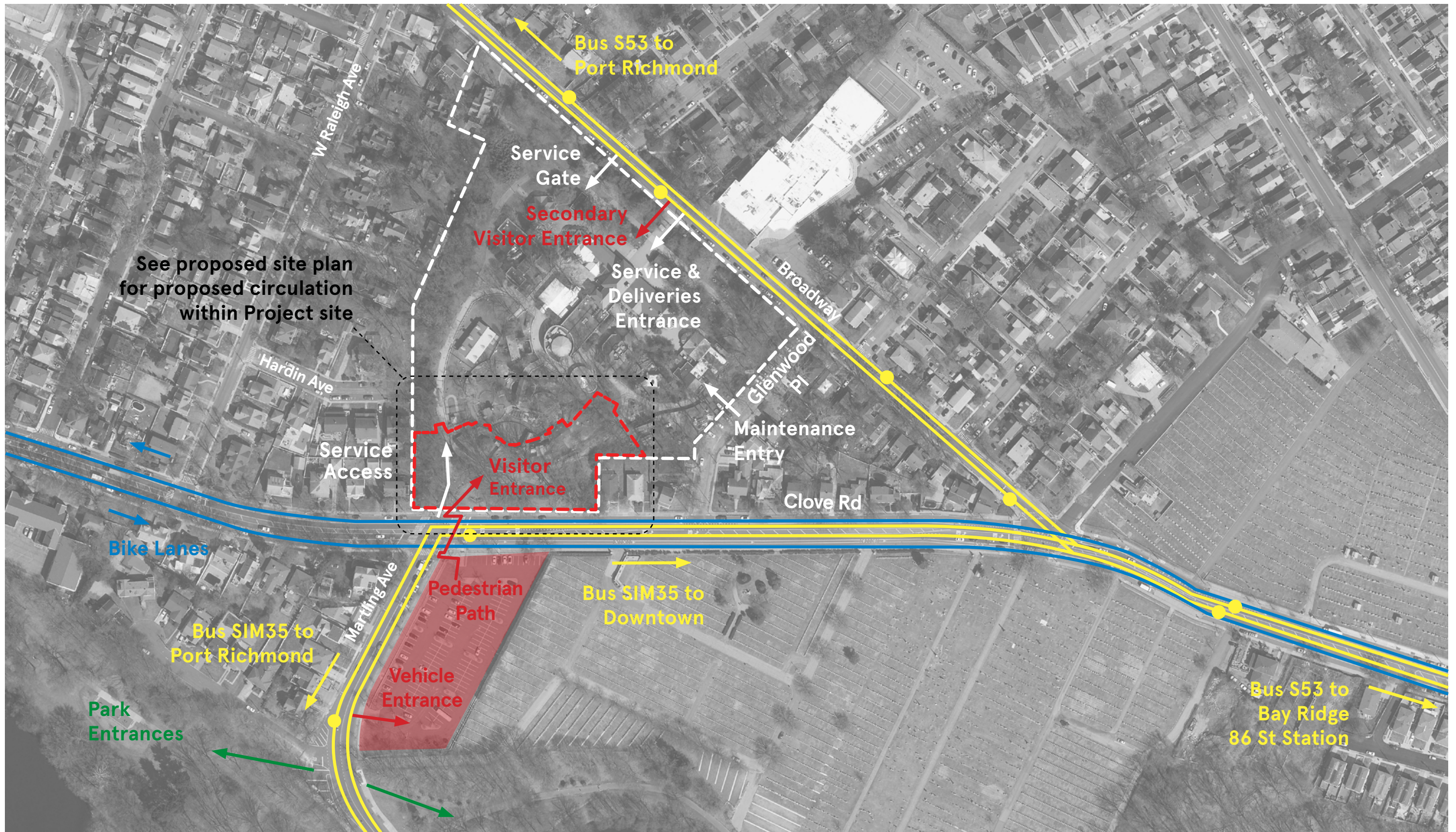
The sunpath diagram shows the solar orientation and average temperature on four days of the year: the Winter Solstice (December 21), the Fall/Spring Equinox (March 21/September 21), and the Summer Solstice (June 21).

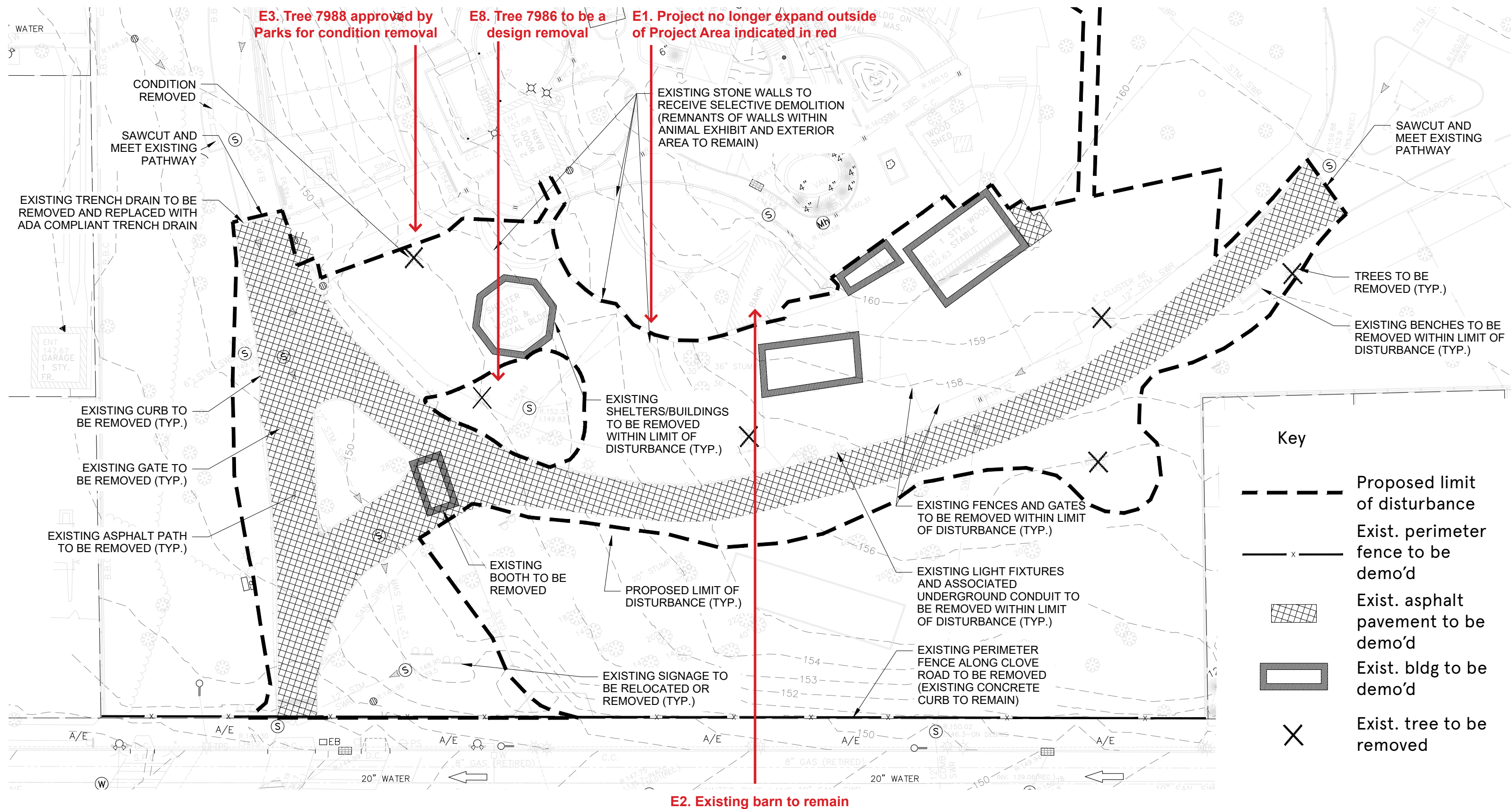


Windrose diagram

In this area:

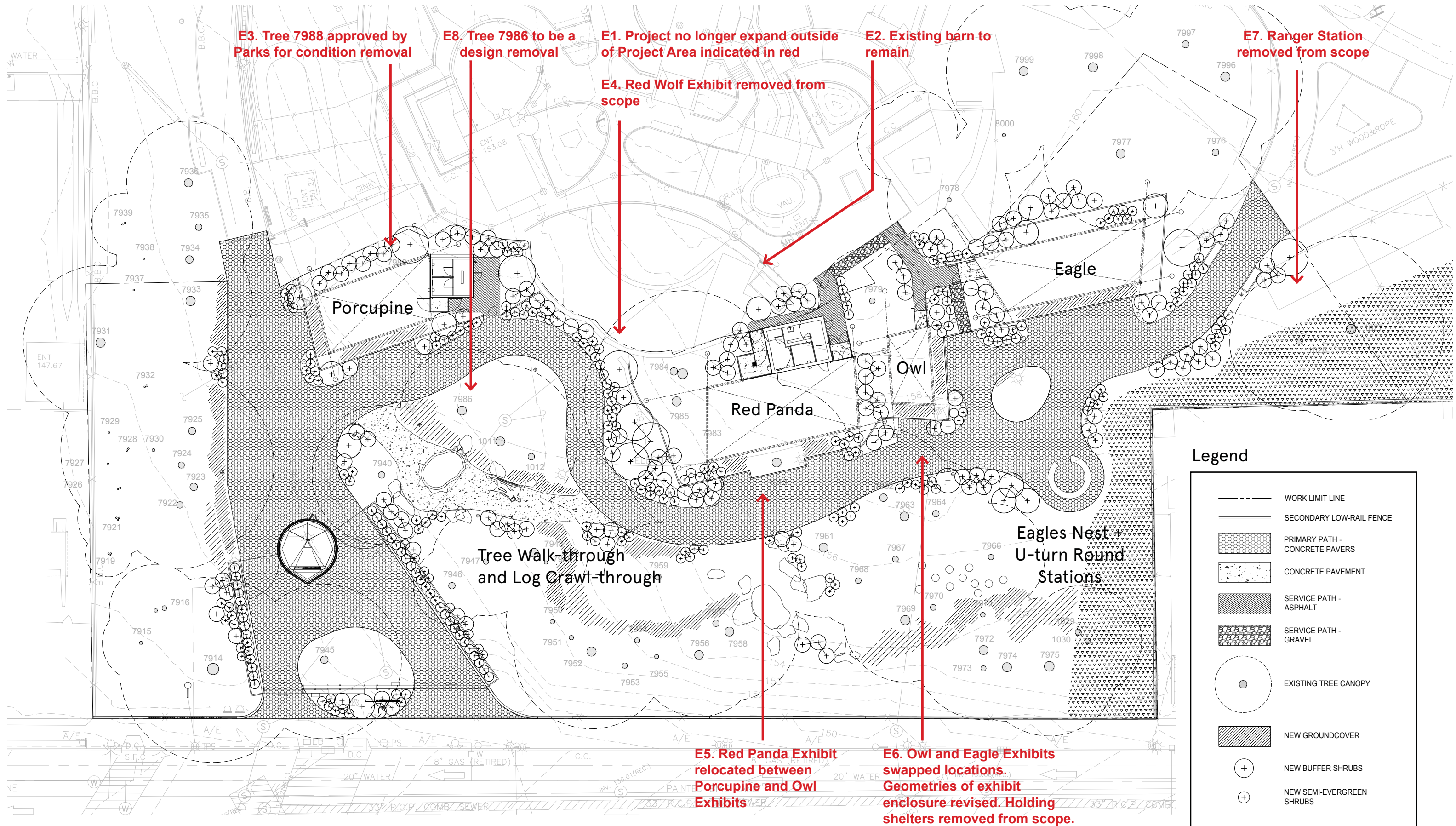
- Winds come predominantly from the Northwest from November to April.
- Winds come predominantly from the Southwest from May to August
- Winds come predominantly from the North-Northeast in September and October.





E2. Existing barn to remain







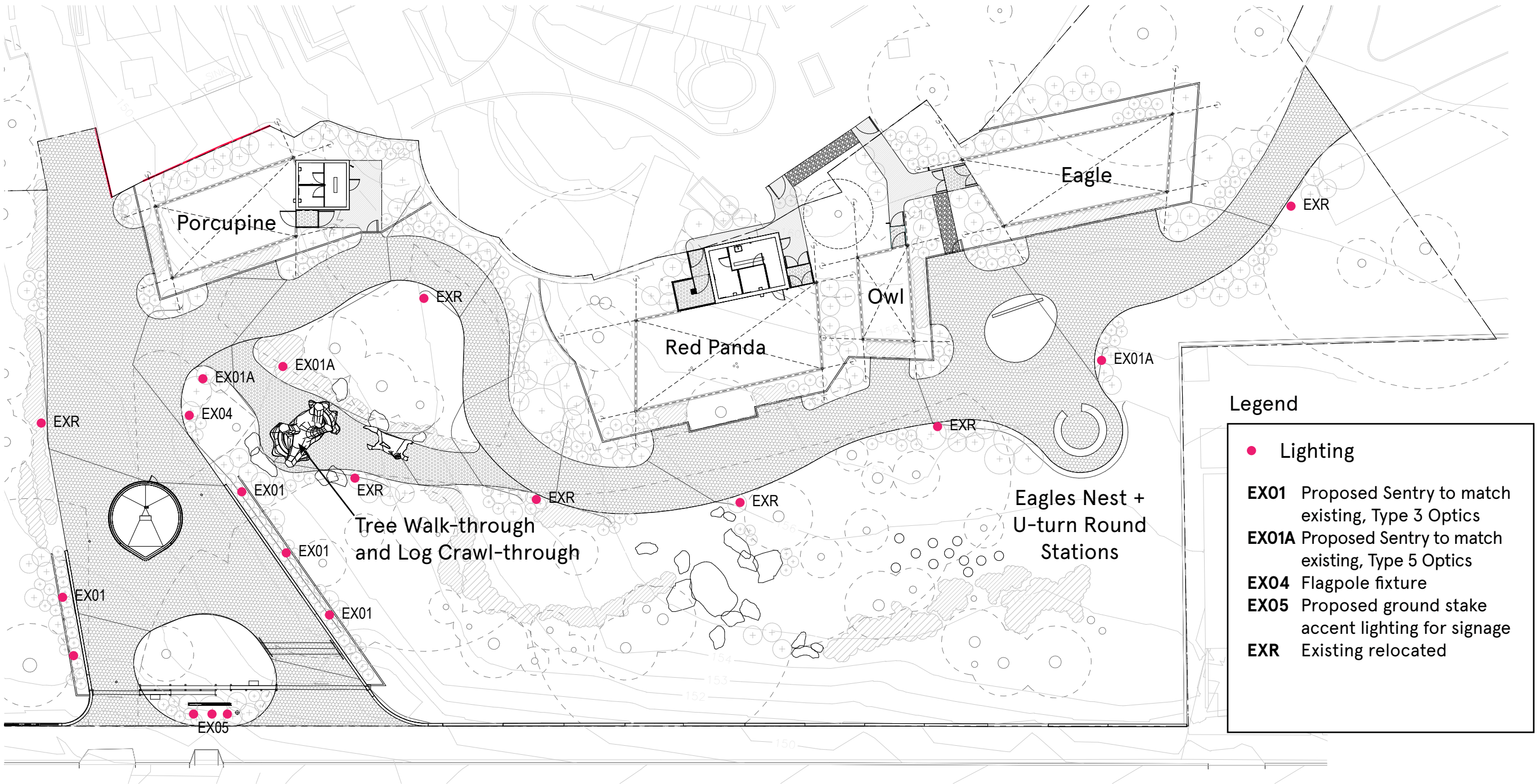
EXR, EX01, EX01A



EX04



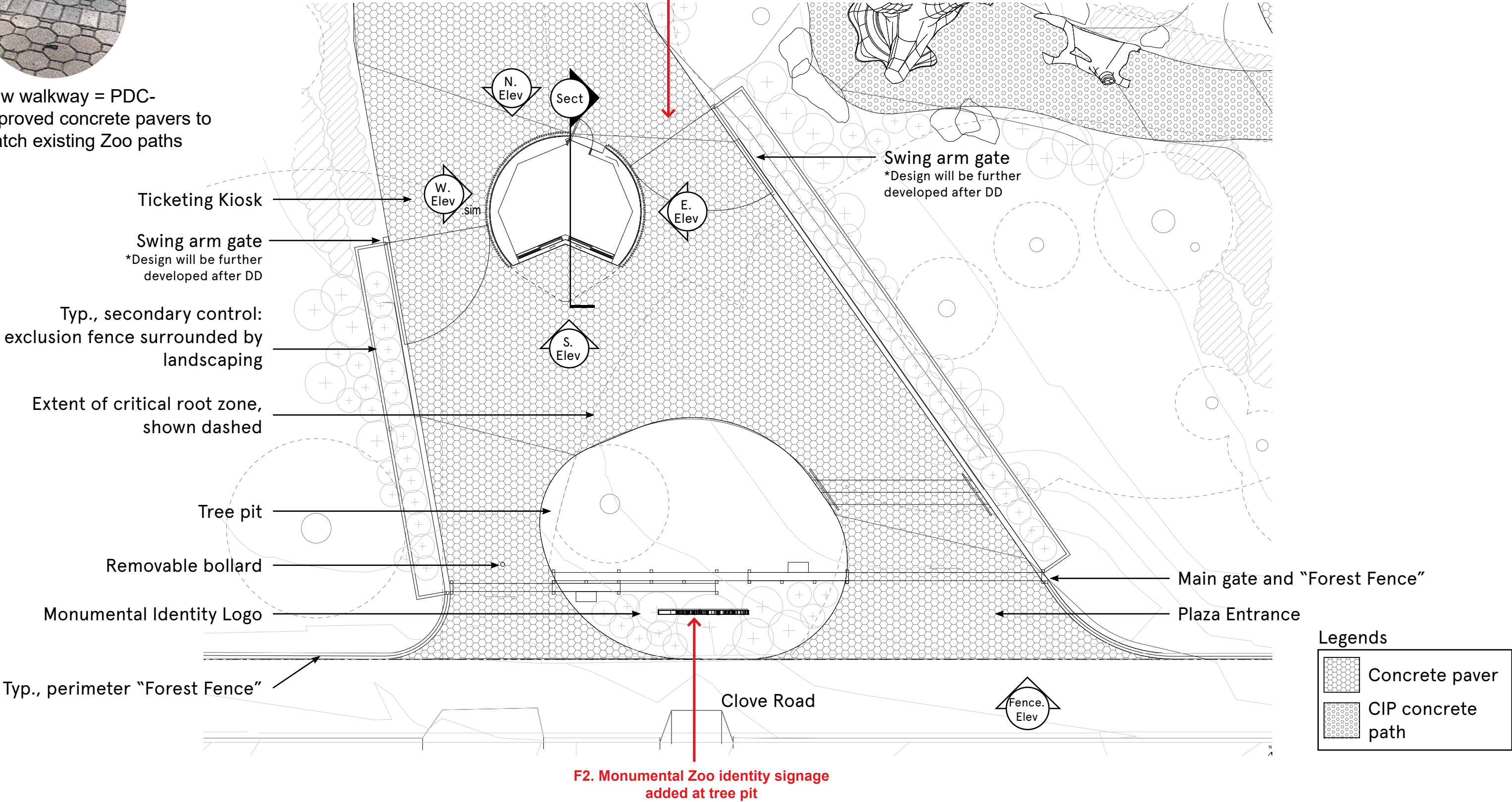
EX05





New walkway = PDC-
approved concrete pavers to
match existing Zoo paths

P1. Bollards on two sides of kiosk are
replaced with swing arm gates



F2. Monumental Zoo identity signage
added at tree pit

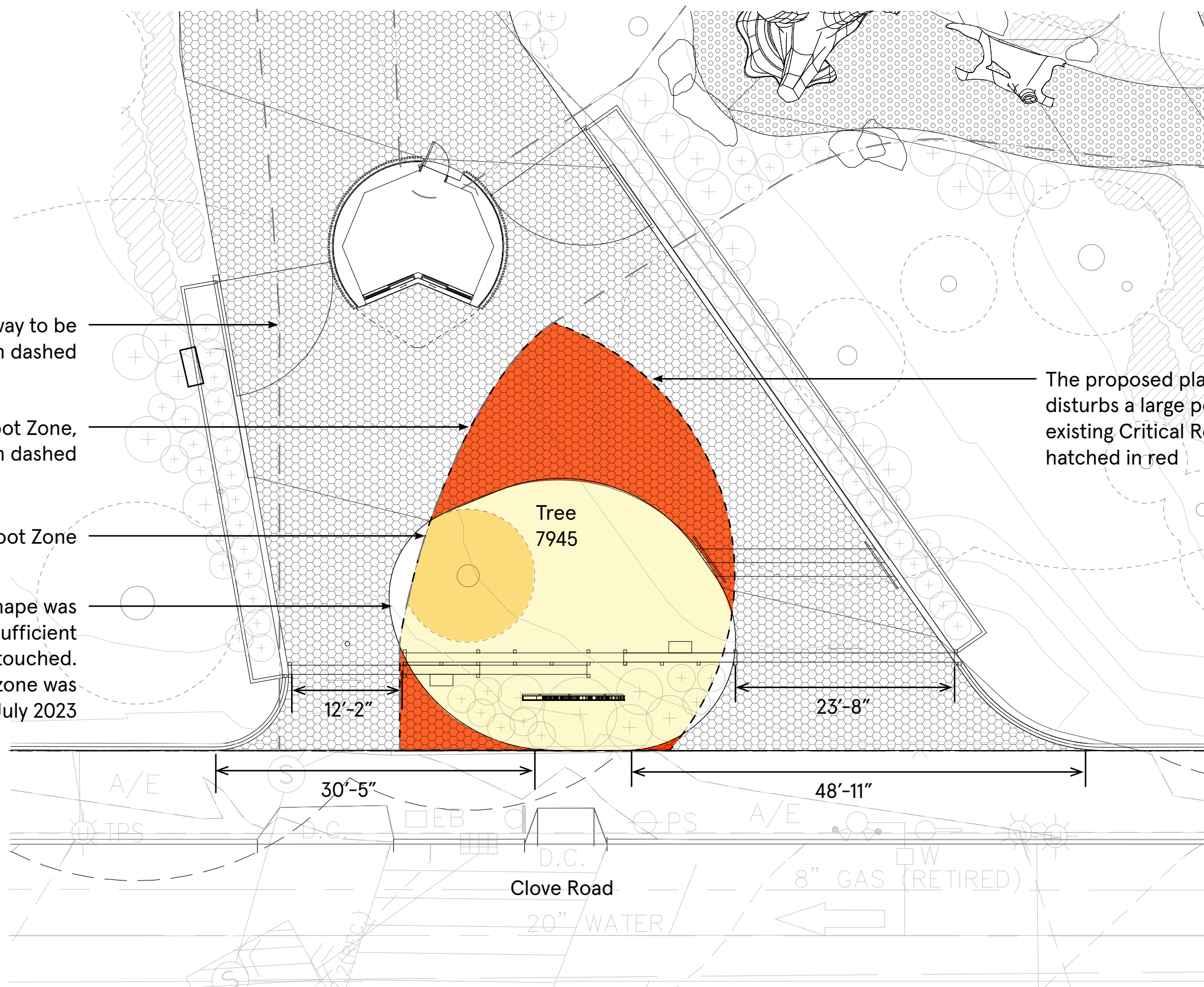
Existing asphalt pathway to be demolished, shown dashed

Extent of Critical Root Zone, shown dashed

Extent of Structural Root Zone

Tree pit size and shape was designed to leave sufficient critical root zone untouched. This amount of root zone was approved by Parks in July 2023

The proposed plaza plan already disturbs a large portion of the tree's existing Critical Root Zone, shown hatched in red



Legend

- Structural Root Zone
- Critical Root Zone remaining
- Critical Root Zone disturbed

See Site Disturbance Diagram for full site plan with all trees

Site limitations to the west of the plaza:

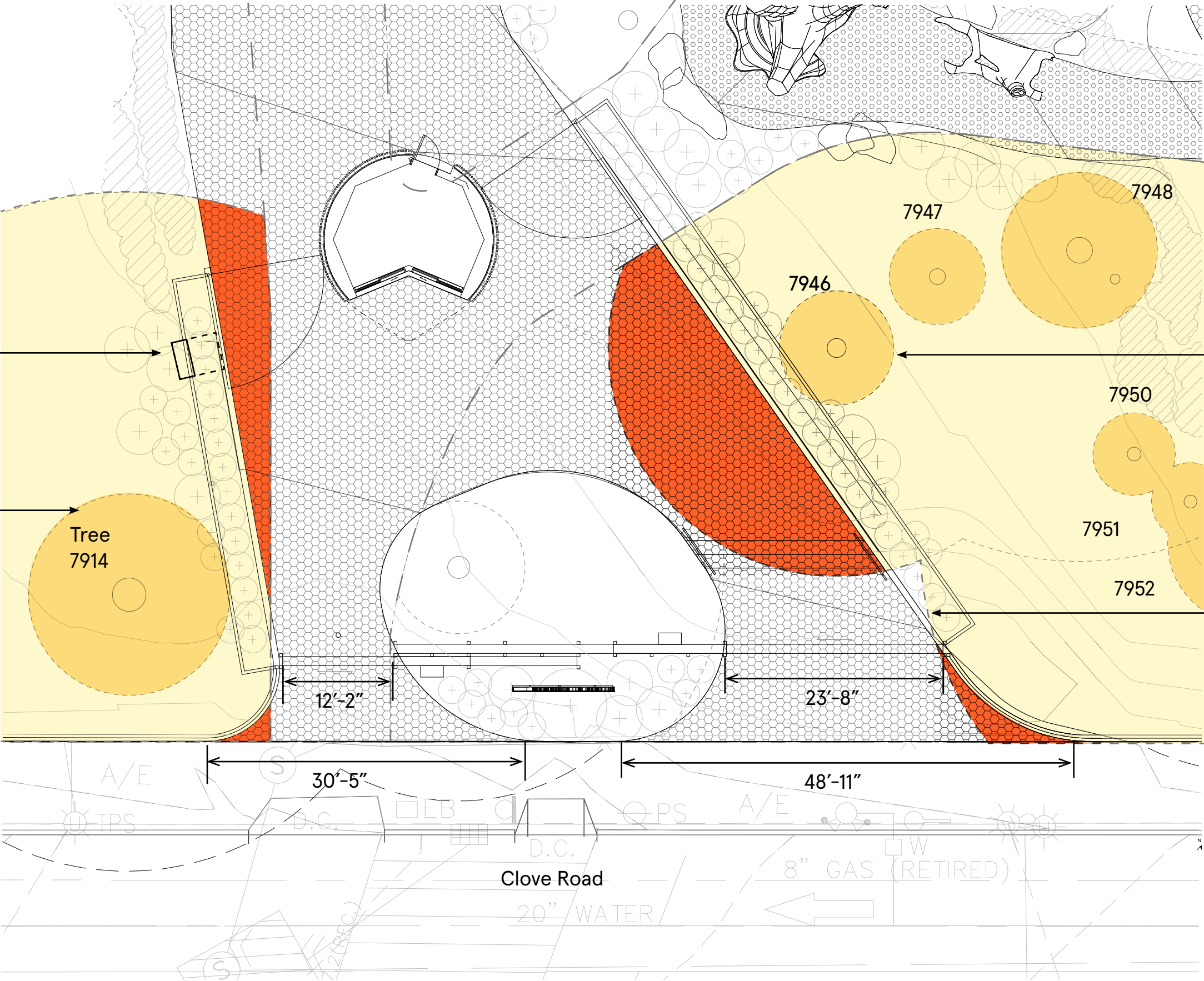
Existing electrical box to remain with 3' clearance in front, shown dashed

Structural Root Zone

Site limitations to the east of the plaza:

Structural Root Zone

Critical Root Zone of several mature trees



Legend

- Structural Root Zone
- Critical Root Zone remaining
- Critical Root Zone disturbed

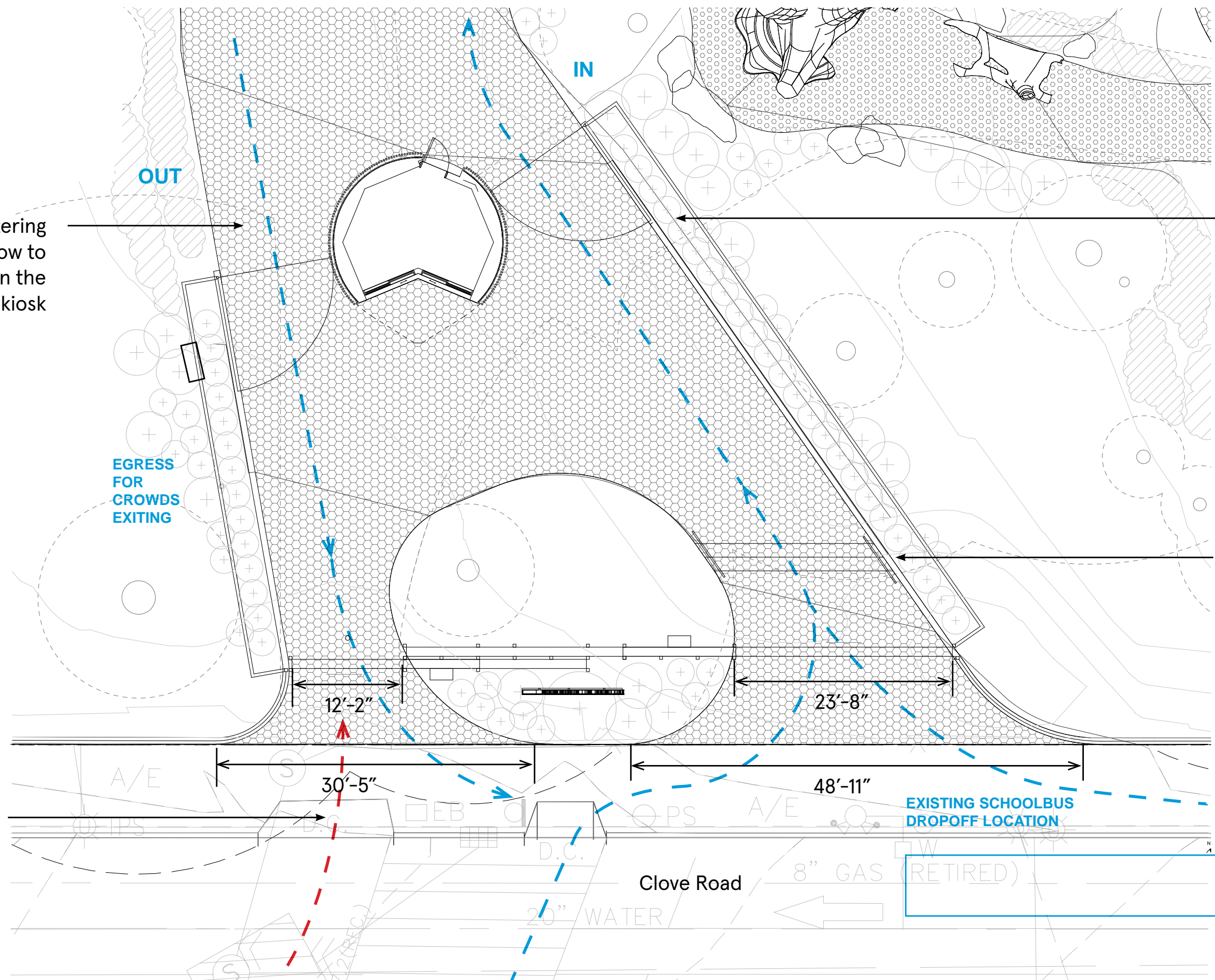
See Site Disturbance Diagram for full site plan with all trees

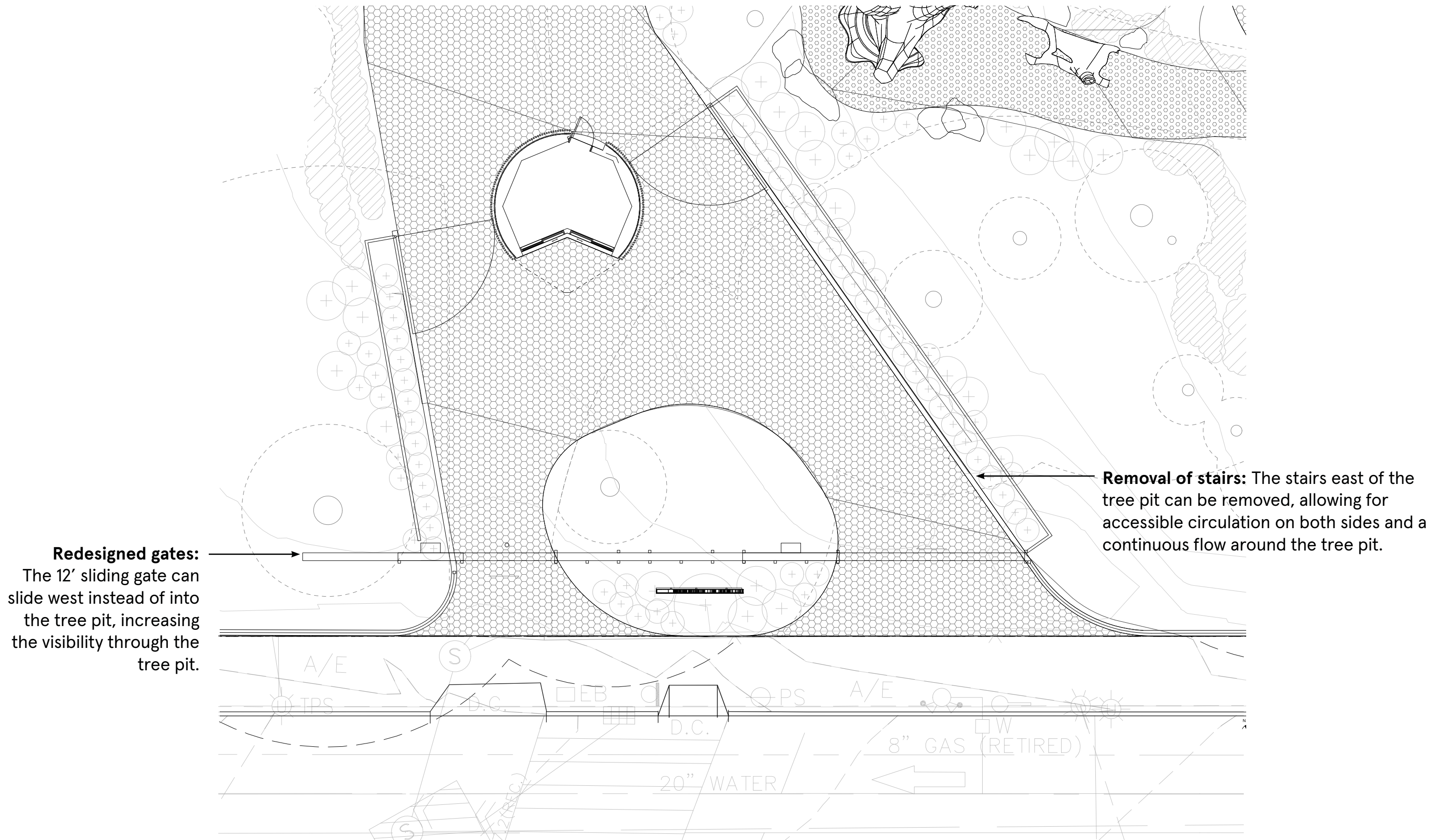
The Zoo wanted the entering and departing visitor flow to be clearly separate on the two sides of the kiosk

As this entry plaza is the new main entrance into the Zoo, the exhibit viewing sequence would now work counter-clockwise once you pass the kiosk, leading visitors directly to the new exhibits east of the plaza.

West entrance doubles as a separate auxiliary vehicular service entrance

Stairs can be removed, allowing for accessible circulation on both sides. See design "sketch"





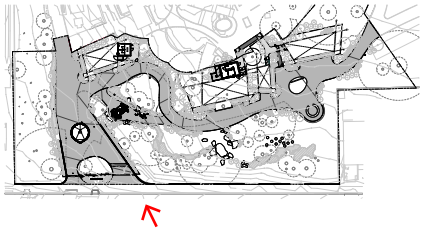
Redesigned gates: 12' sliding gate slides west
to increase visibility through tree pit fence

Removal of stairs



- ① Fence digital monitor with programming
- ② Monumental Zoo identity signage
- ③ Ticketing Kiosk
- ④ Bus Dropoff

Note: Animals to be represented on perimeter fence have not yet been finalized.



1 Entry Gate at Clove Road

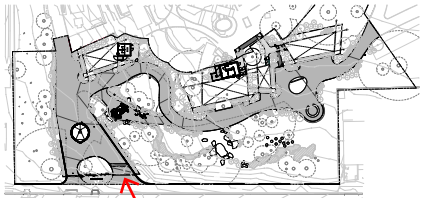
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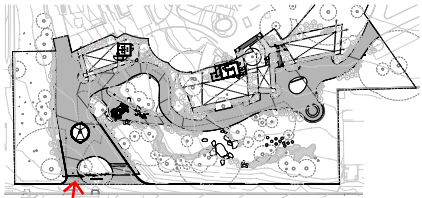
1 Entry Gate at Clove Road

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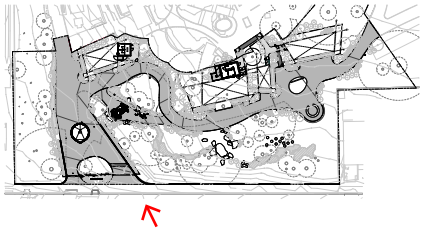
Redesigned gates: 12' sliding gate slides west
to increase visibility through tree pit fence

Removal of stairs

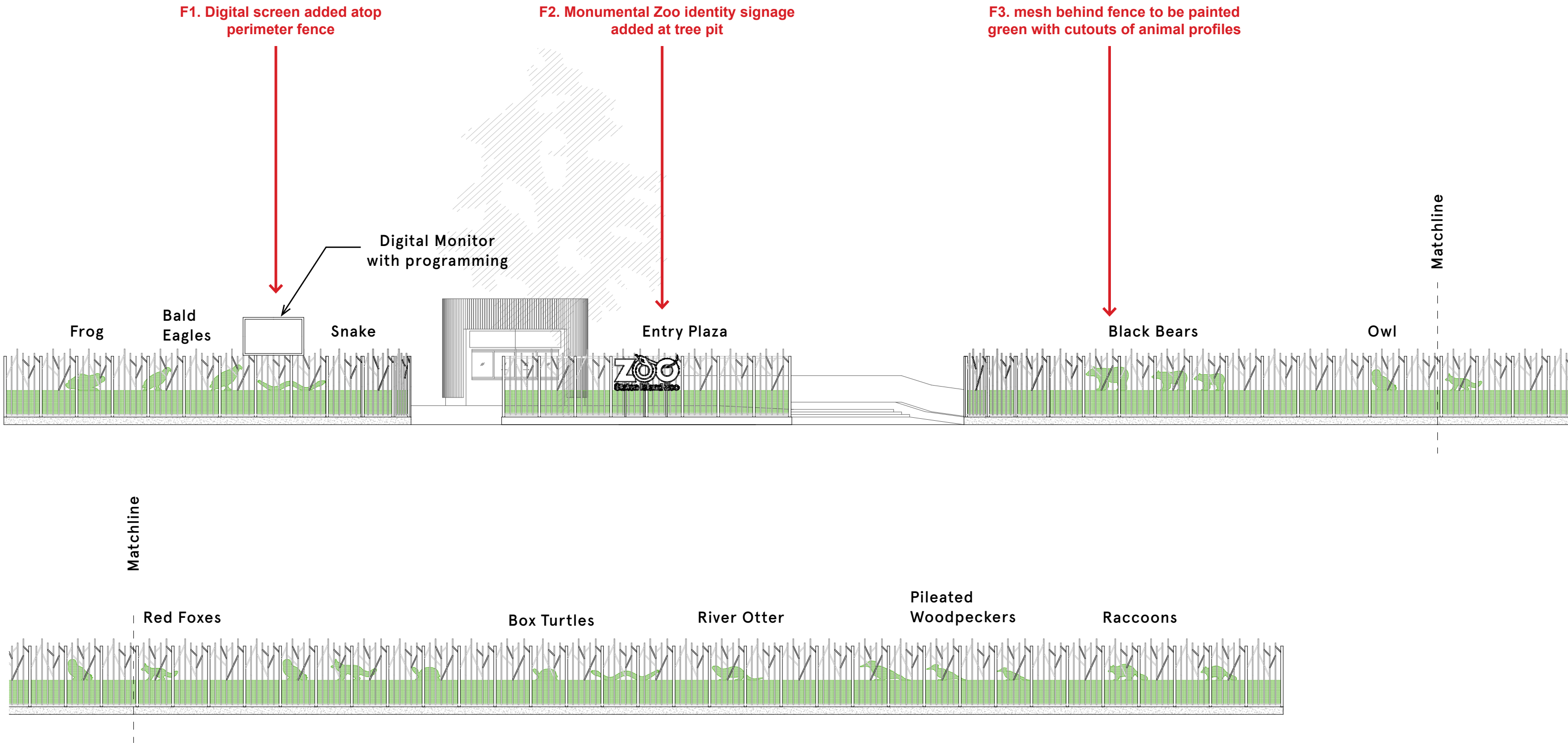


- ① Monumental Zoo identity signage
- ② Ticketing Kiosk
- ③ Bus Dropoff

Note: Animals to be represented on perimeter fence have not yet been finalized.

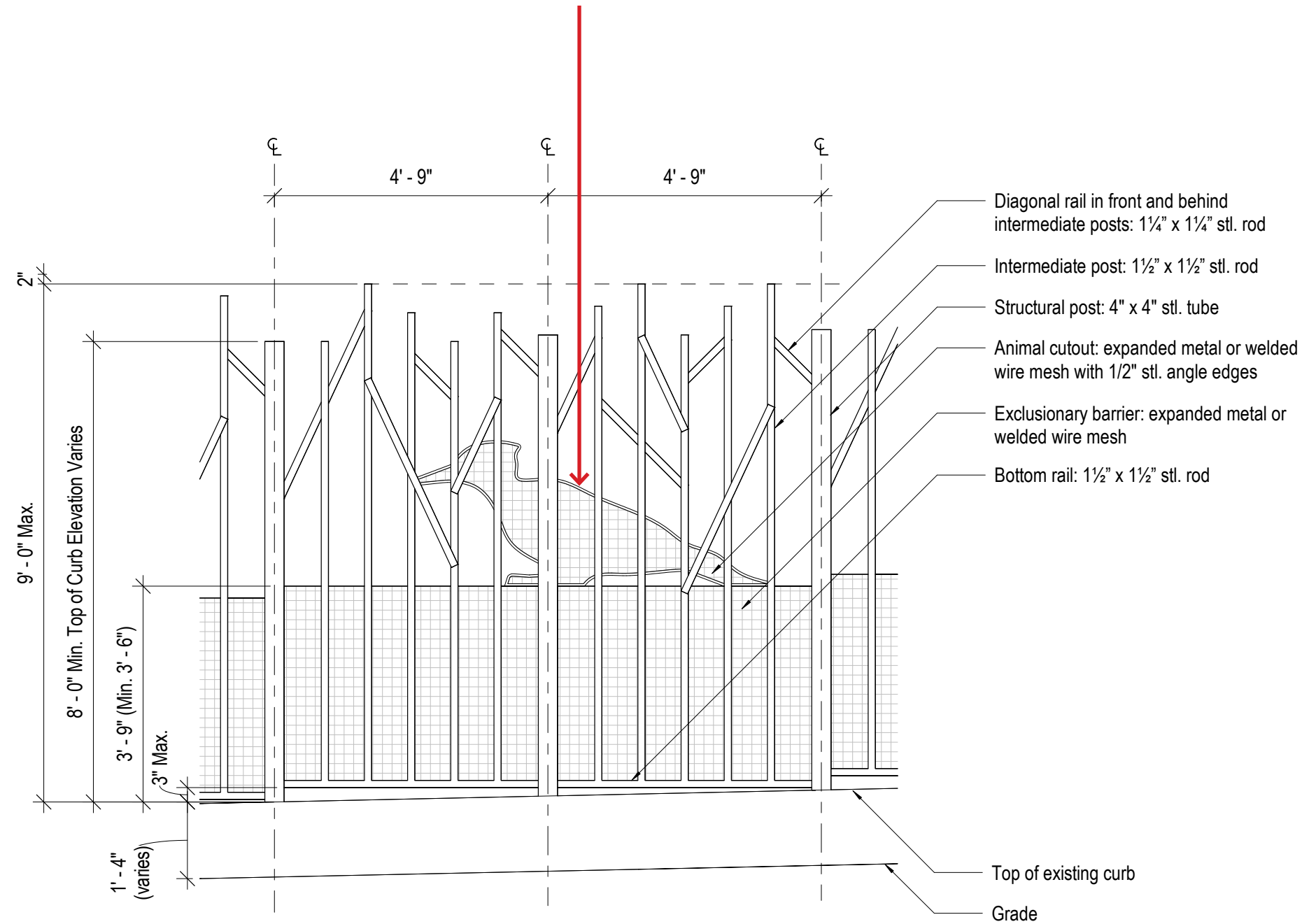


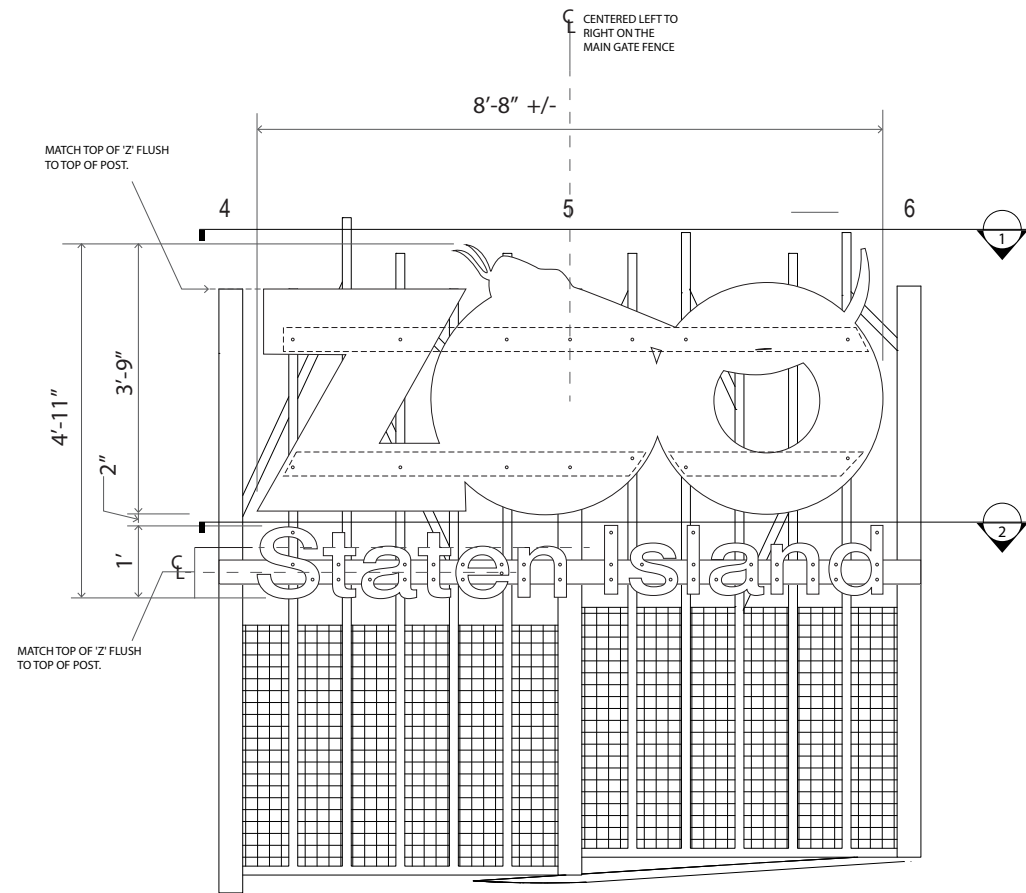
1 Entry Gate at Clove Road



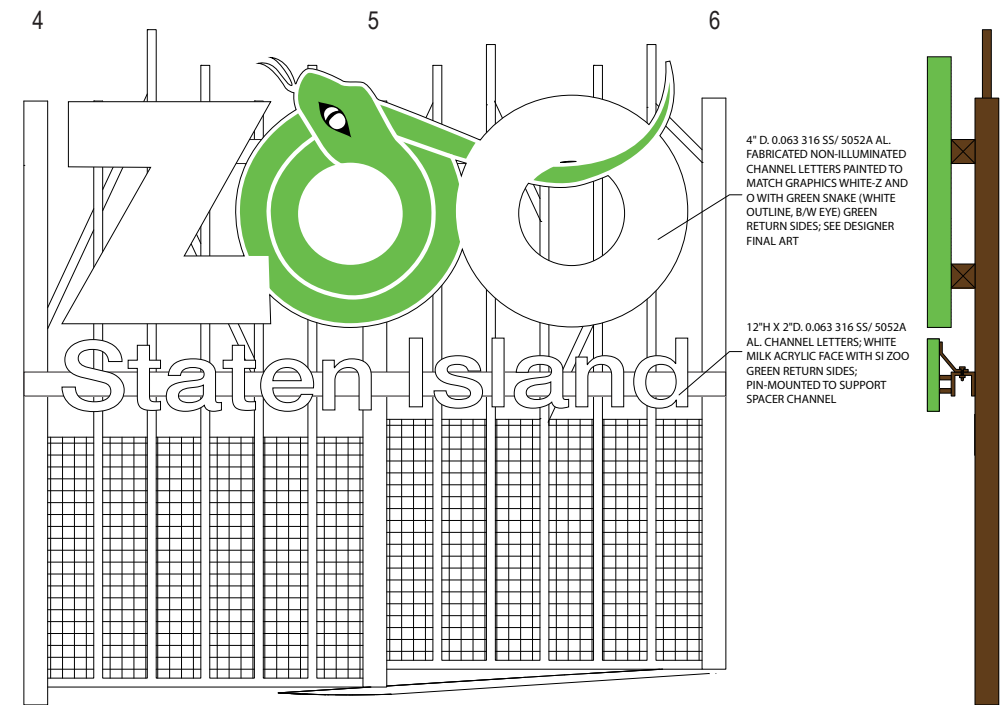
Note: Animals to be represented have not yet been finalized.

F3. mesh behind fence to be painted green with cutouts of animal profiles

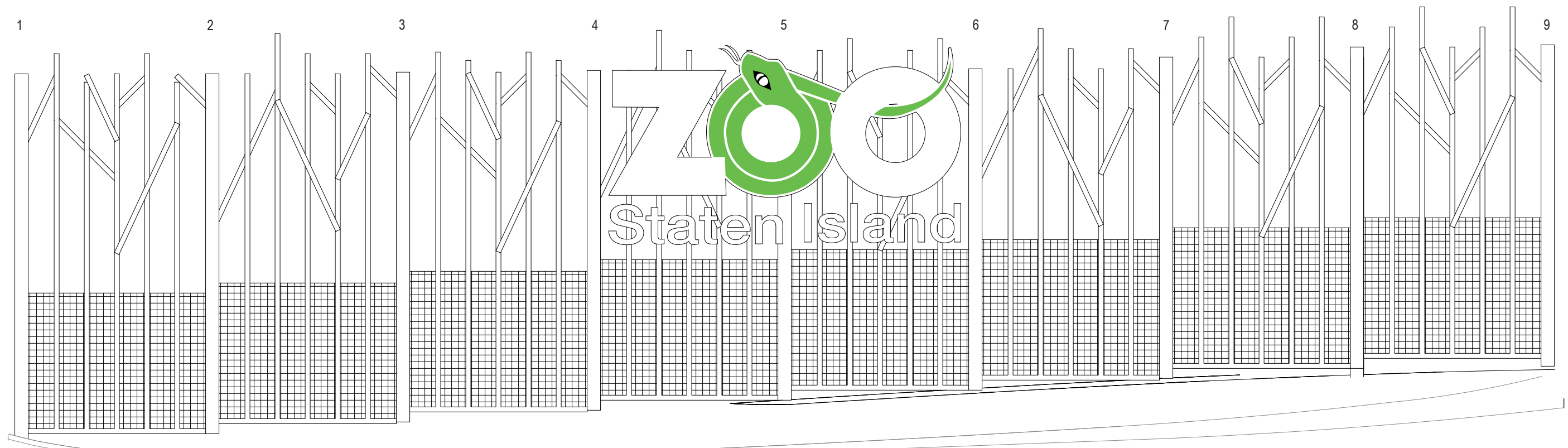


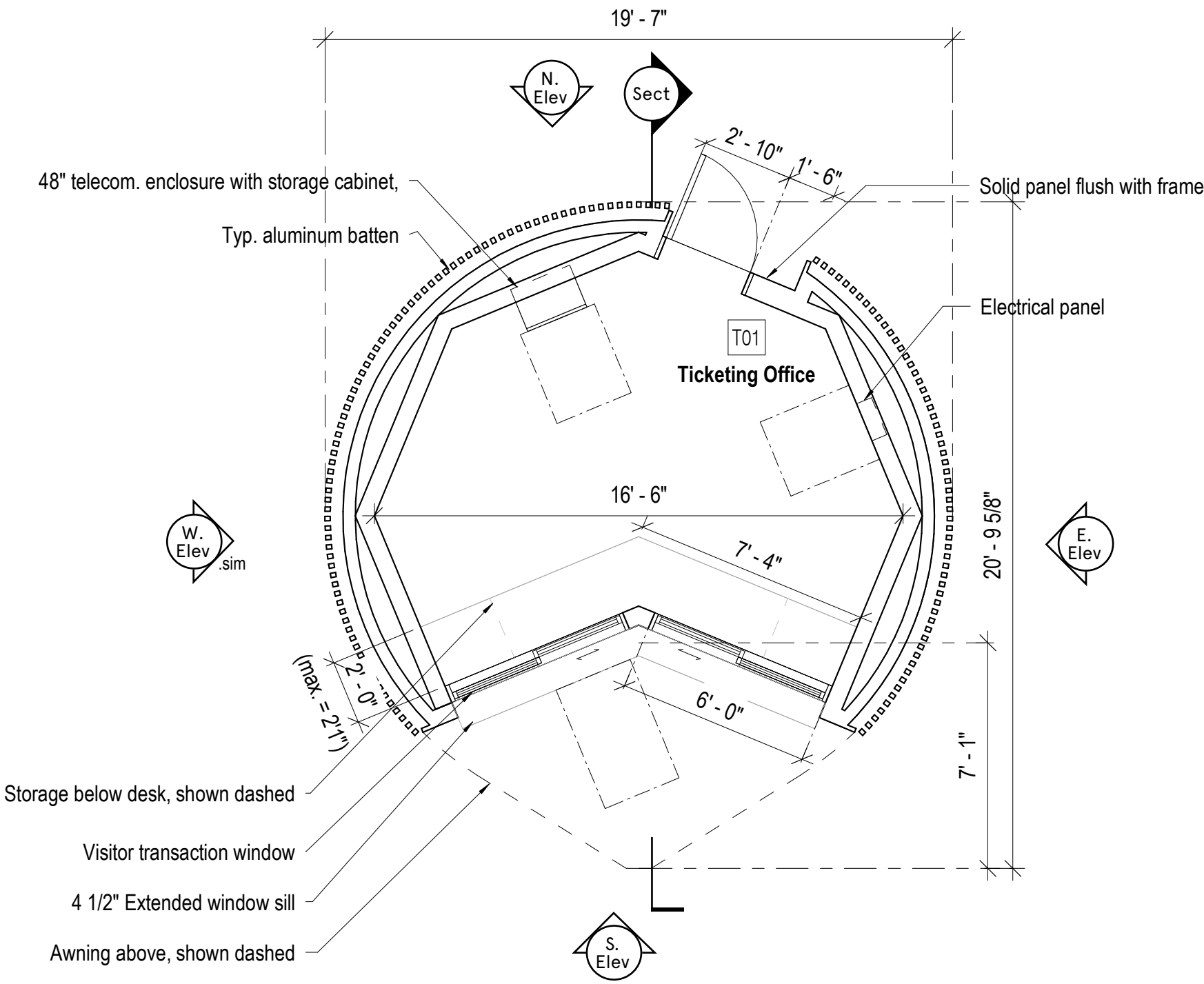


MOUNTING - ELEVATION AND SIDE VIEW

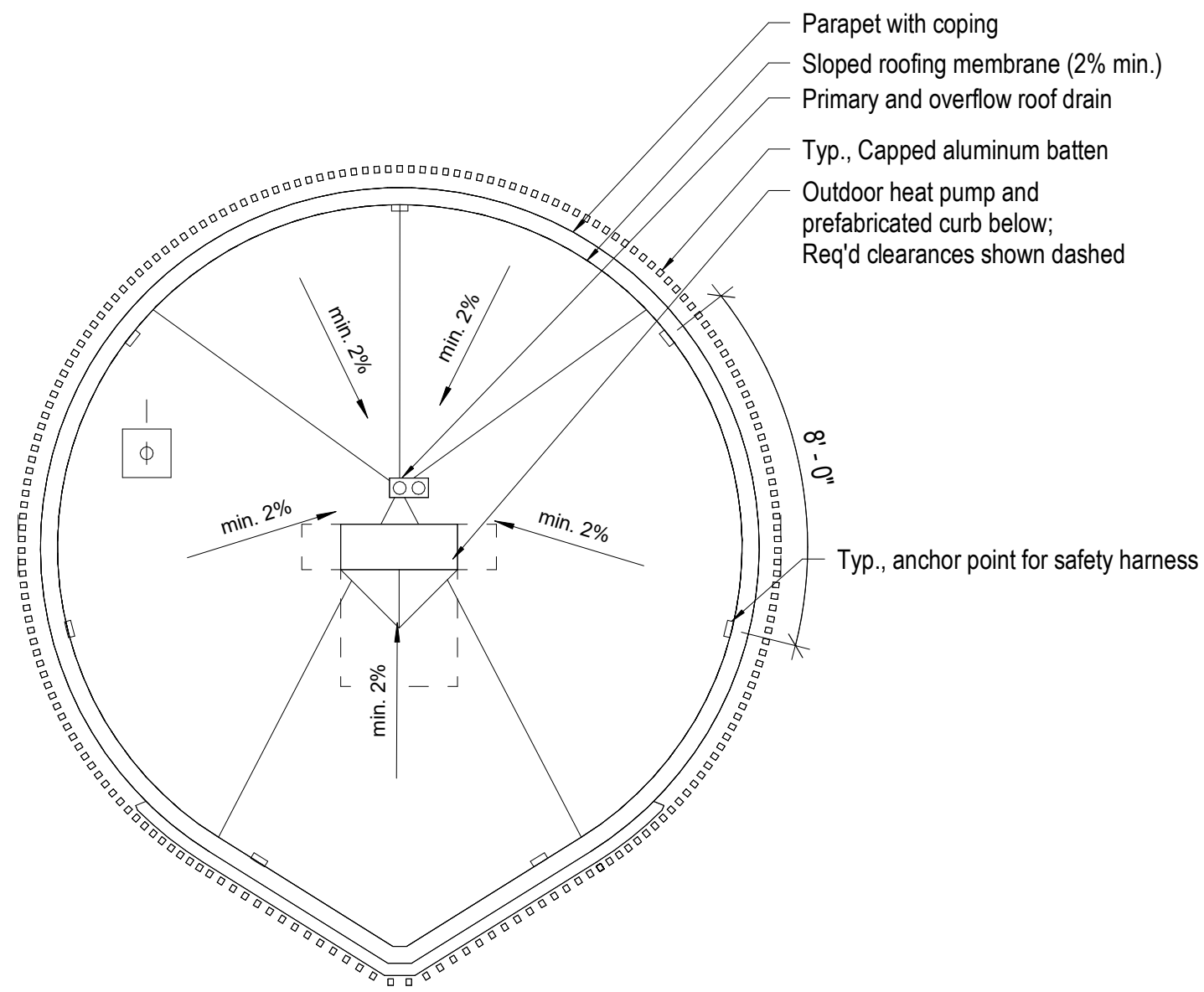


PROPOSED FINISH - ELEVATION AND SIDE VIEW

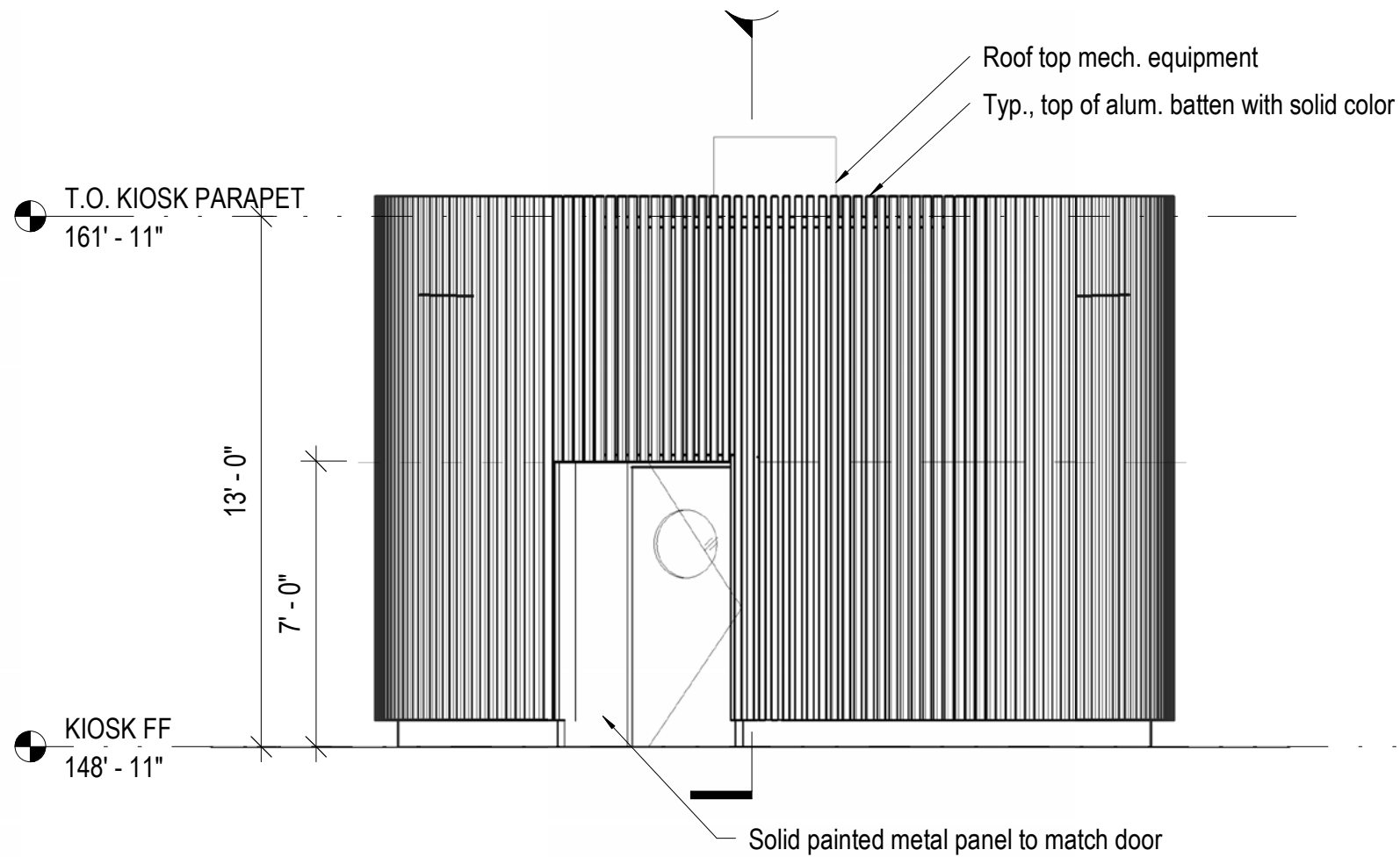




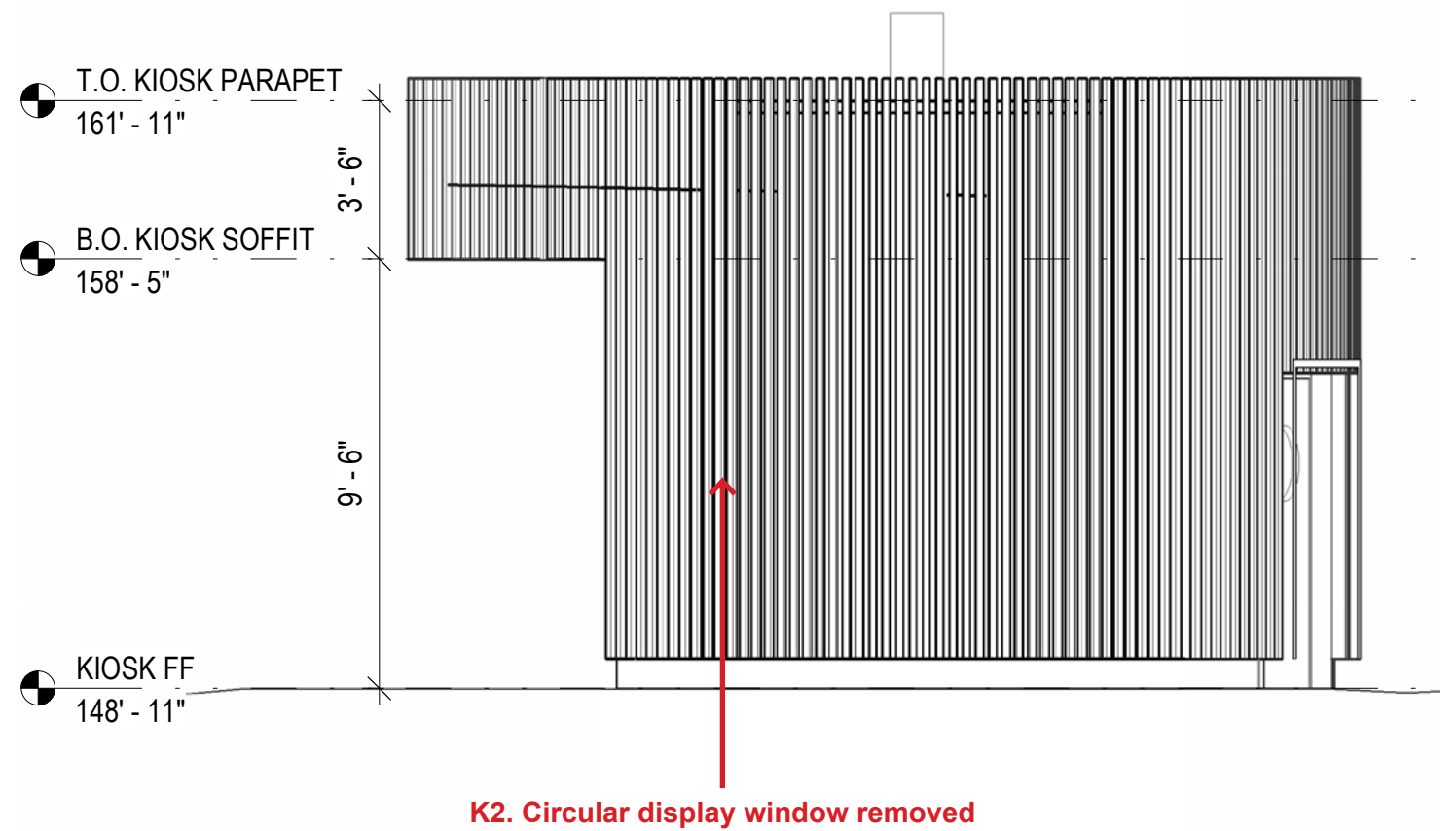
KIOSK PLAN



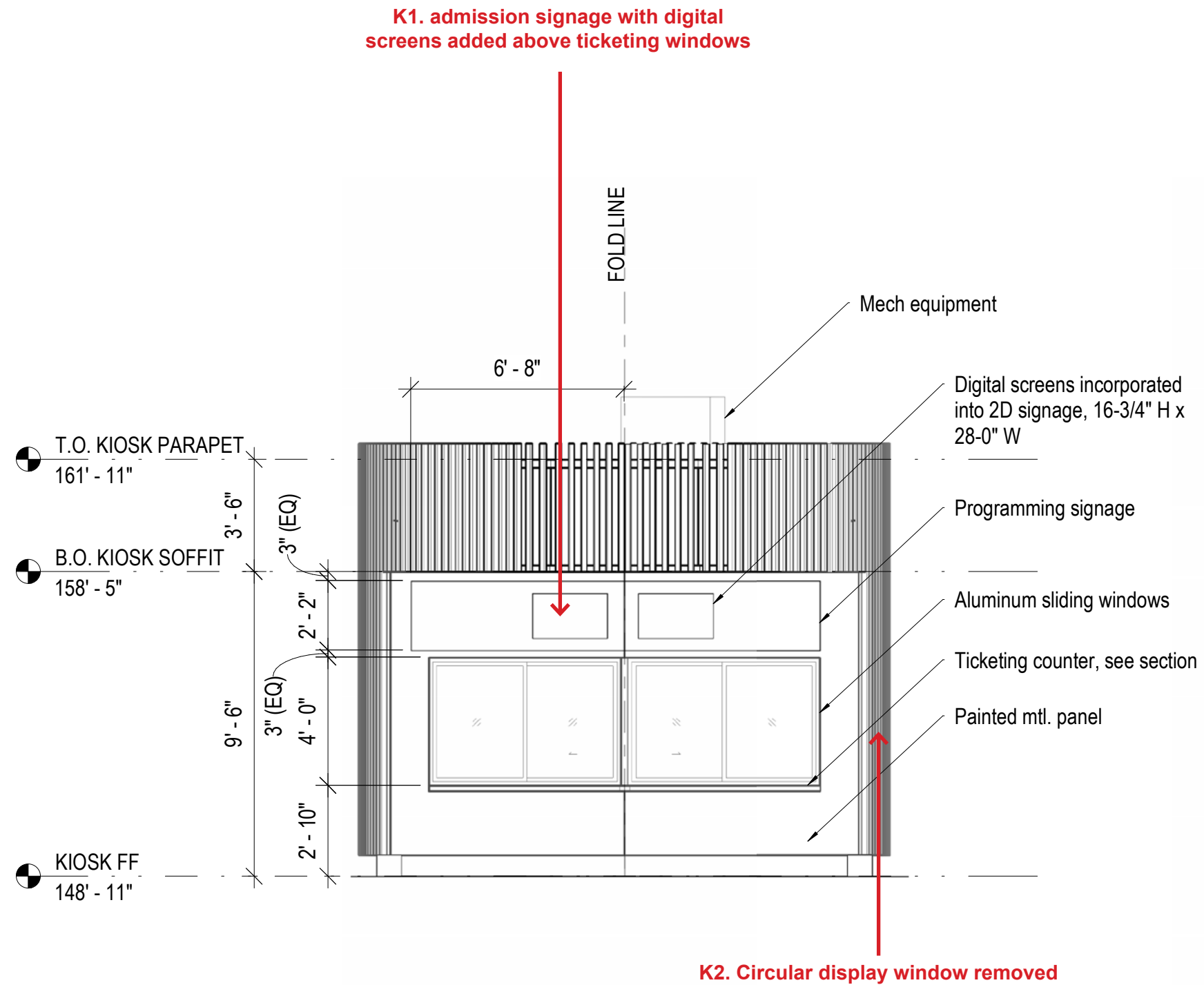
KIOSK ROOF PLAN



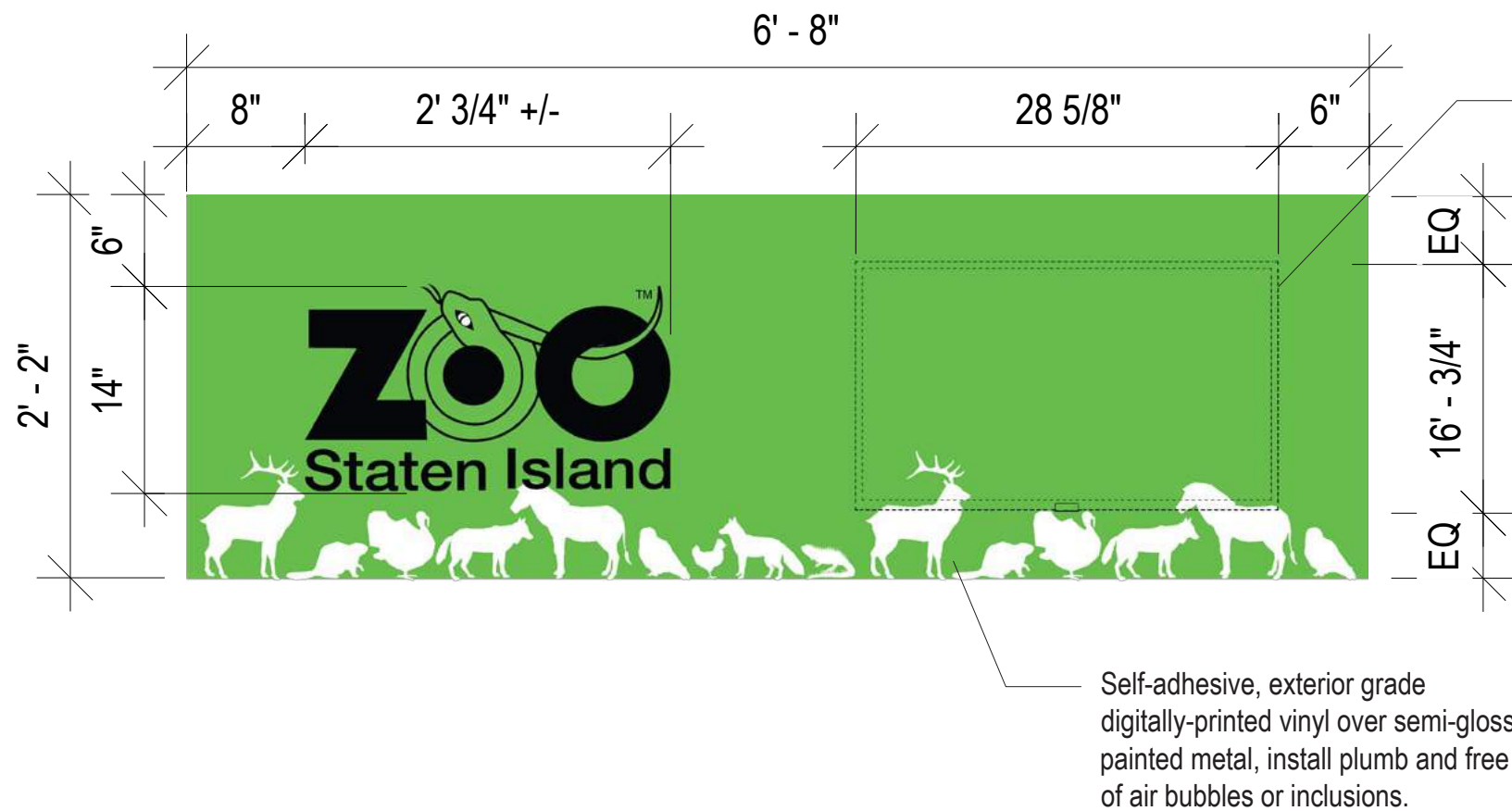
PROPOSED KIOSK NORTH ELEVATION



PROPOSED KIOSK EAST ELEVATION



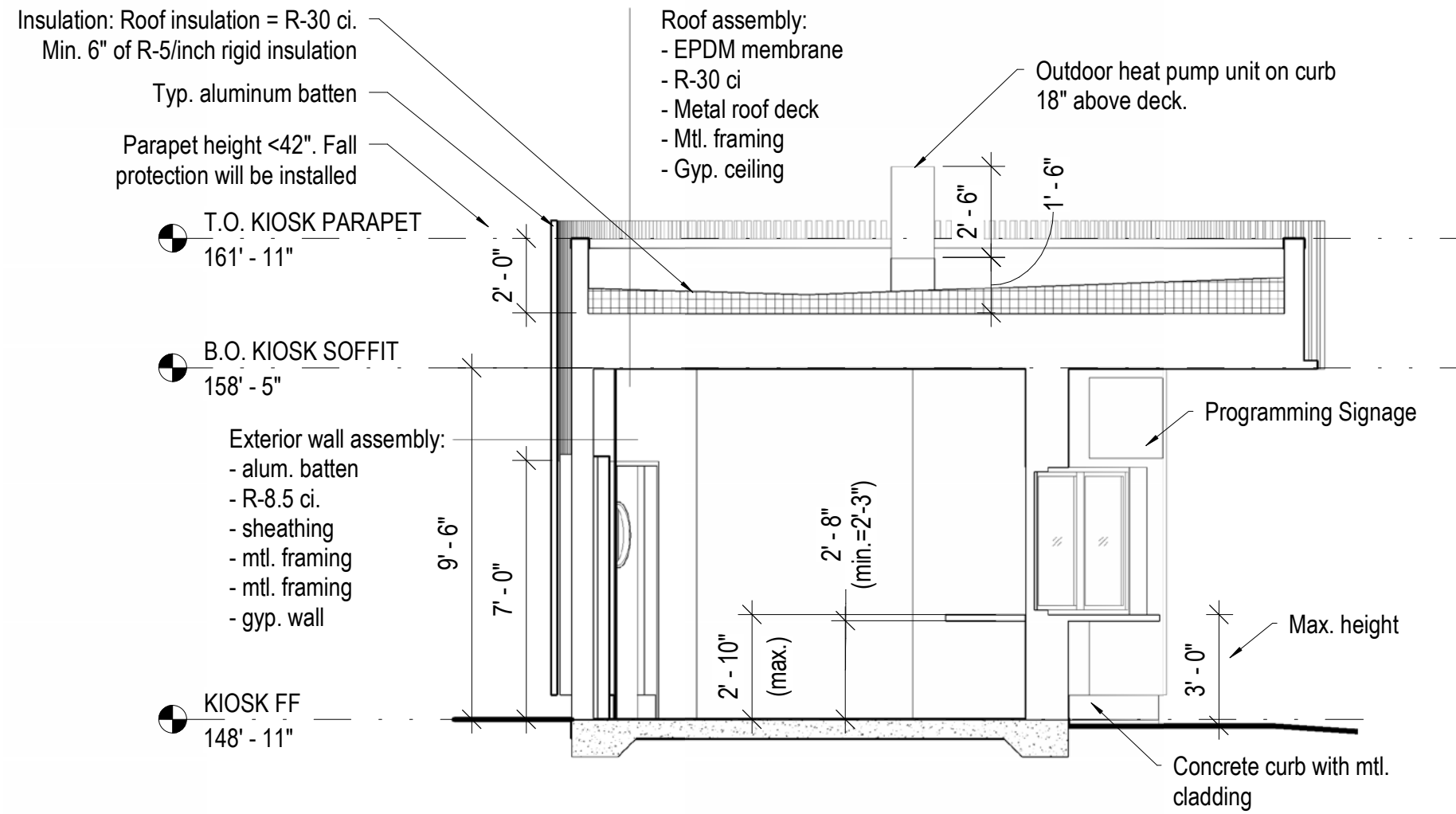
PROPOSED KIOSK SOUTH ELEVATION



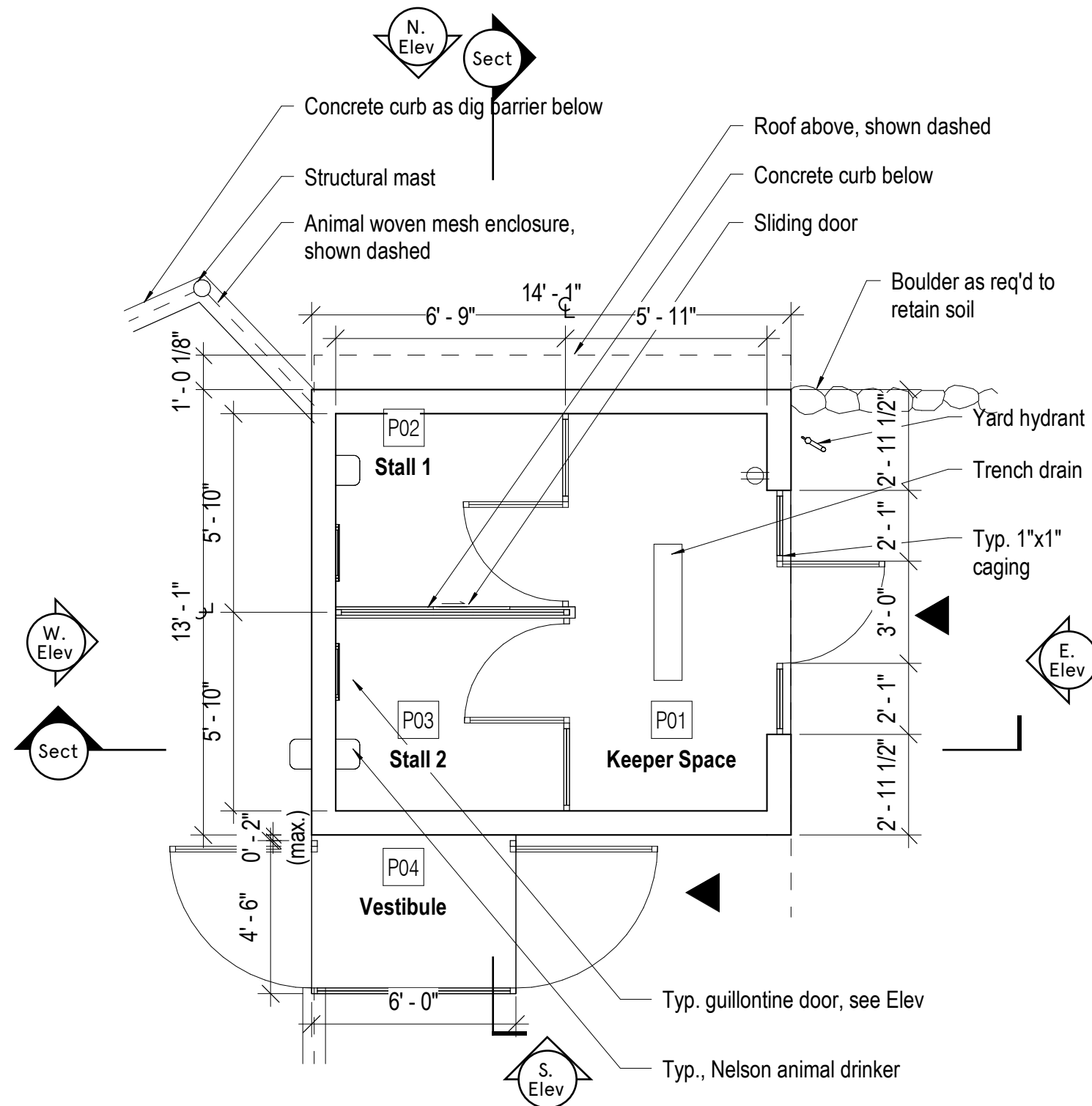
Kiosk Video Monitor
NEC™ Model: M321
16-3/4"H x 28-5/8"W x 2-5/8"D O.D.
Qty: 1

Kiosk Monitor VESA Mount
Mount to kiosk wall using Global Industrial™
Universal Tilting VESA Mounting bracket;
Model #: WB239195 or equal.
Source: Global Industrial™ Universal LCD Monitor
VESA Mount For 10"-30" Flat Screens

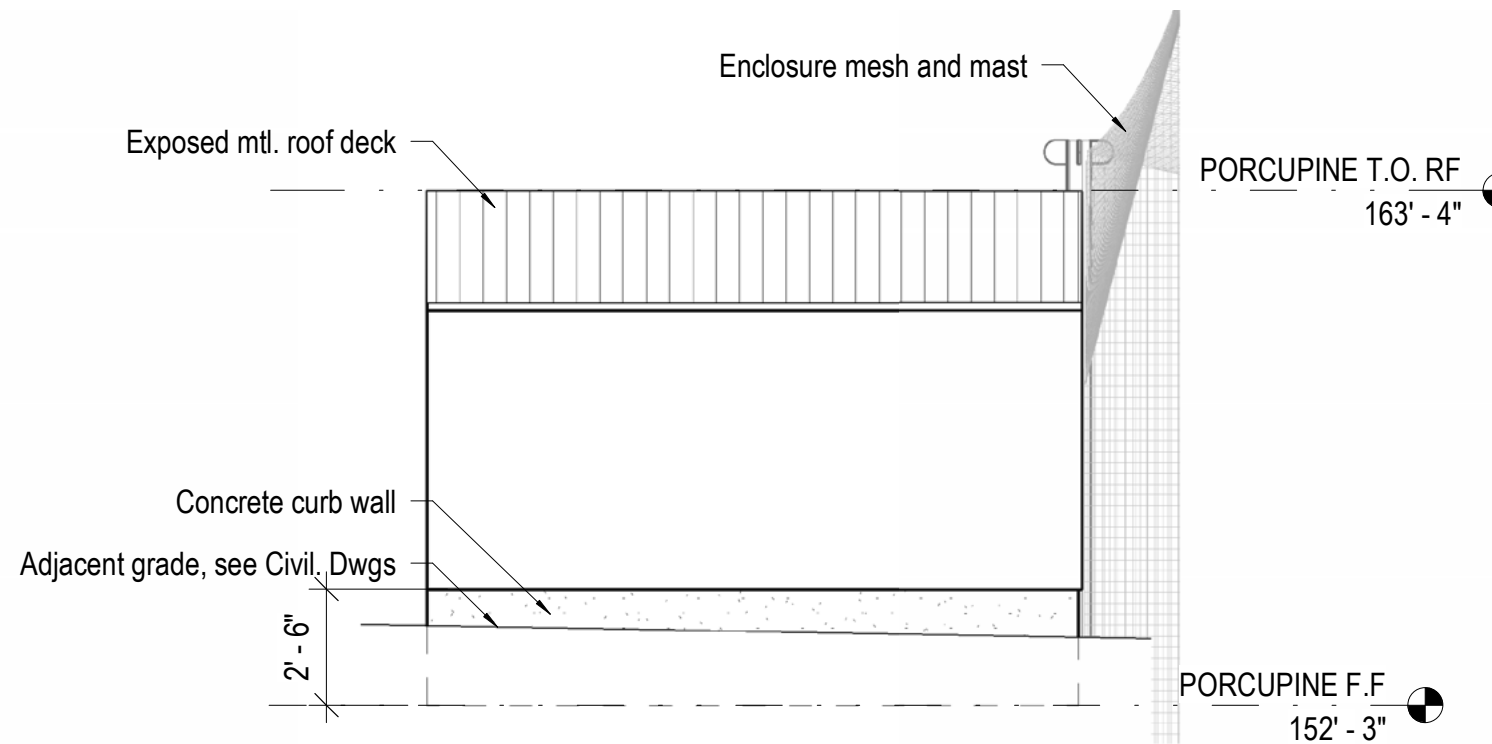
Provide min. 2" dia hole for
electrical access through kiosk wall
to rear (cabling by others); provide
additional blocking as neccessary to
support monitor and bracket. Hole
position not to be visible to public.



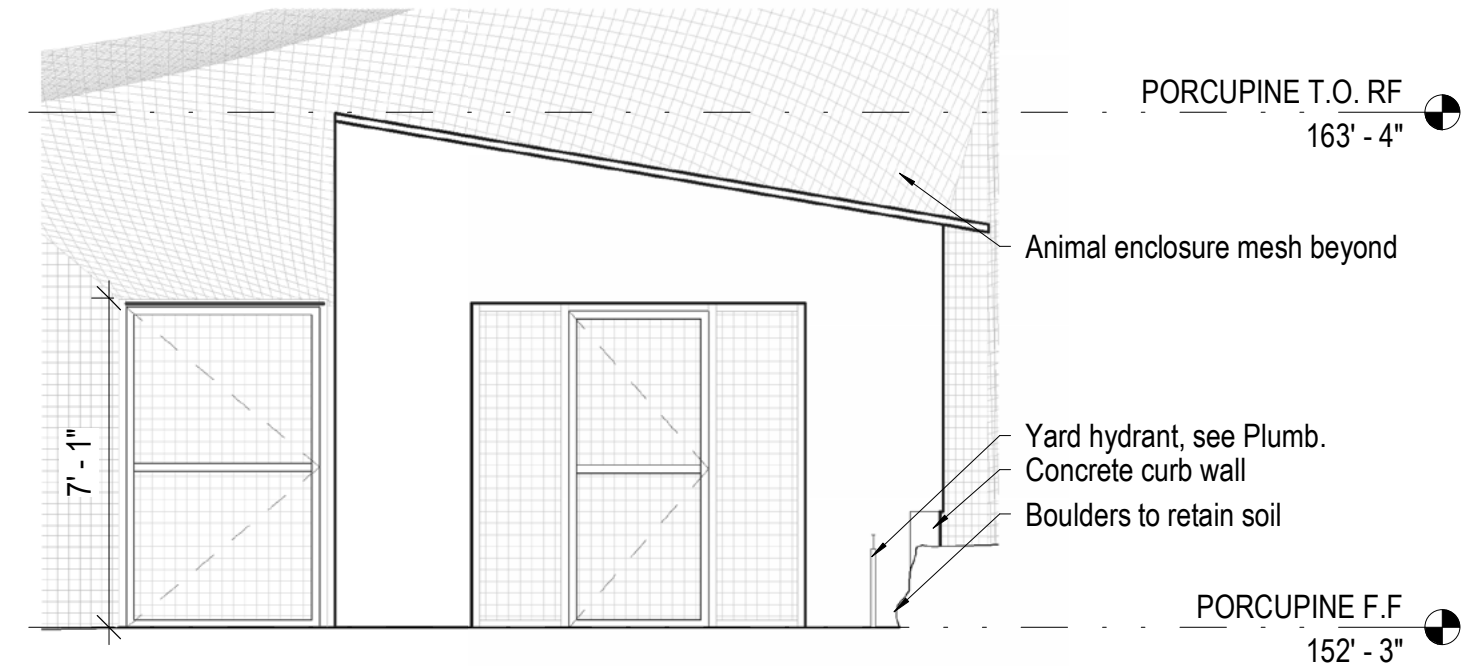
PROPOSED KIOSK SECTION



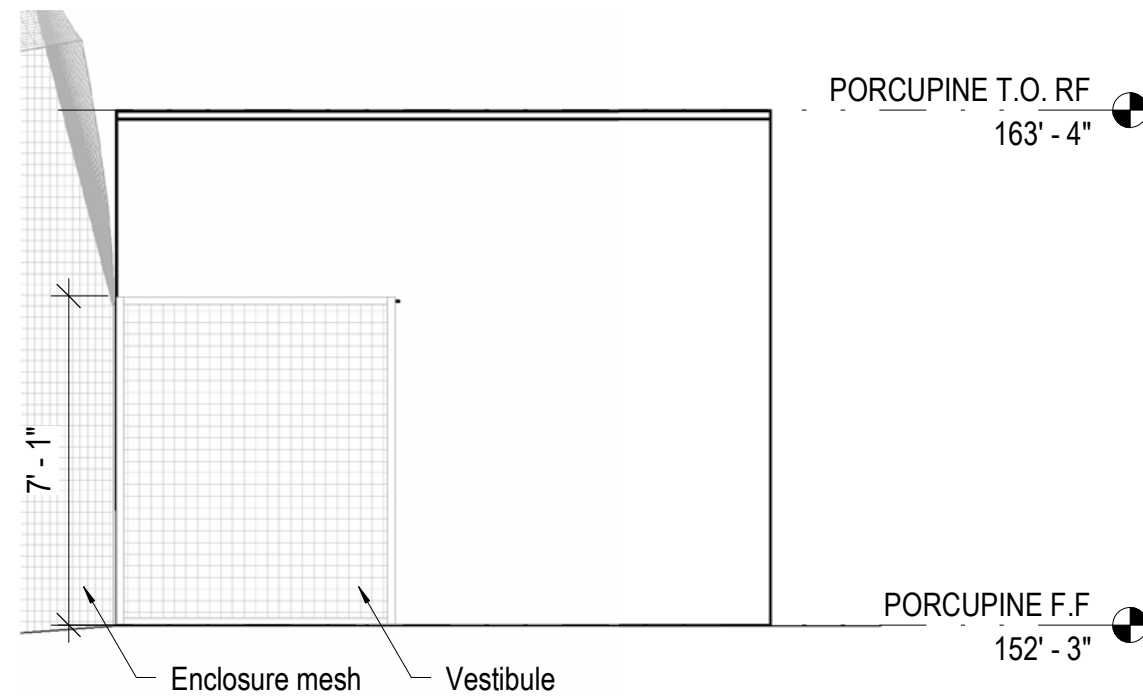
PORCUPINE SHELTER: PLAN



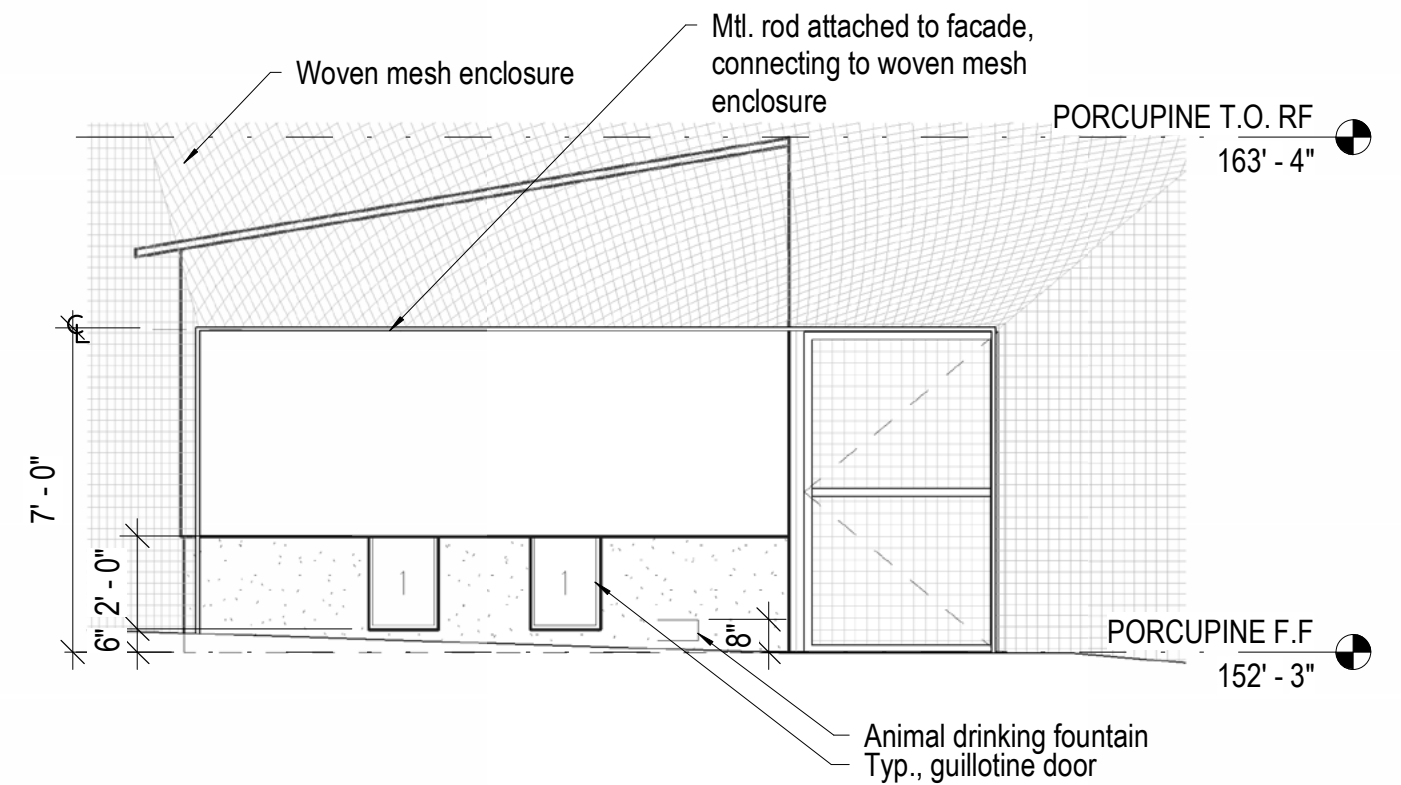
PORCUPINE SHELTER: N ELEVATION



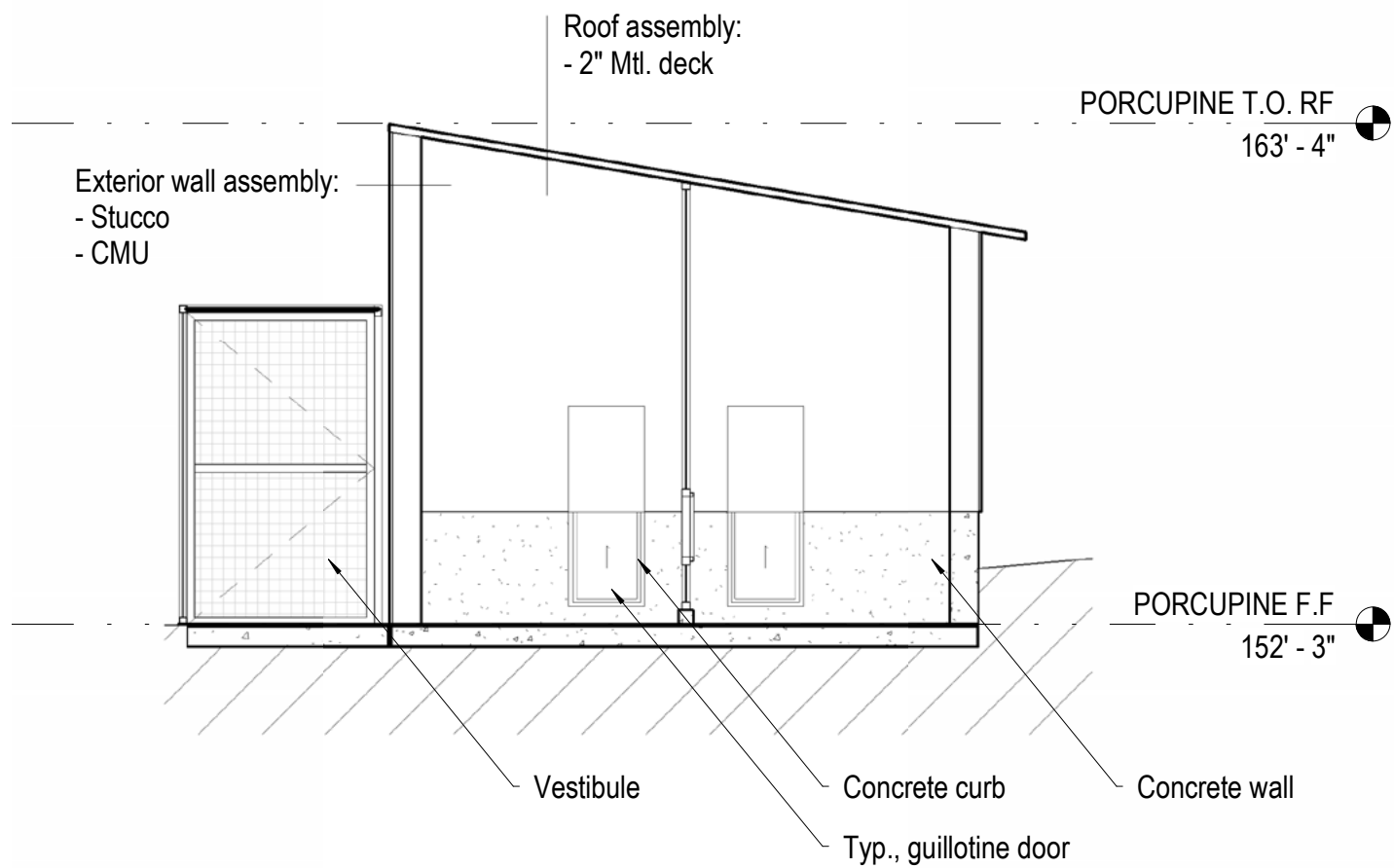
PORCUPINE SHELTER: E ELEVATION



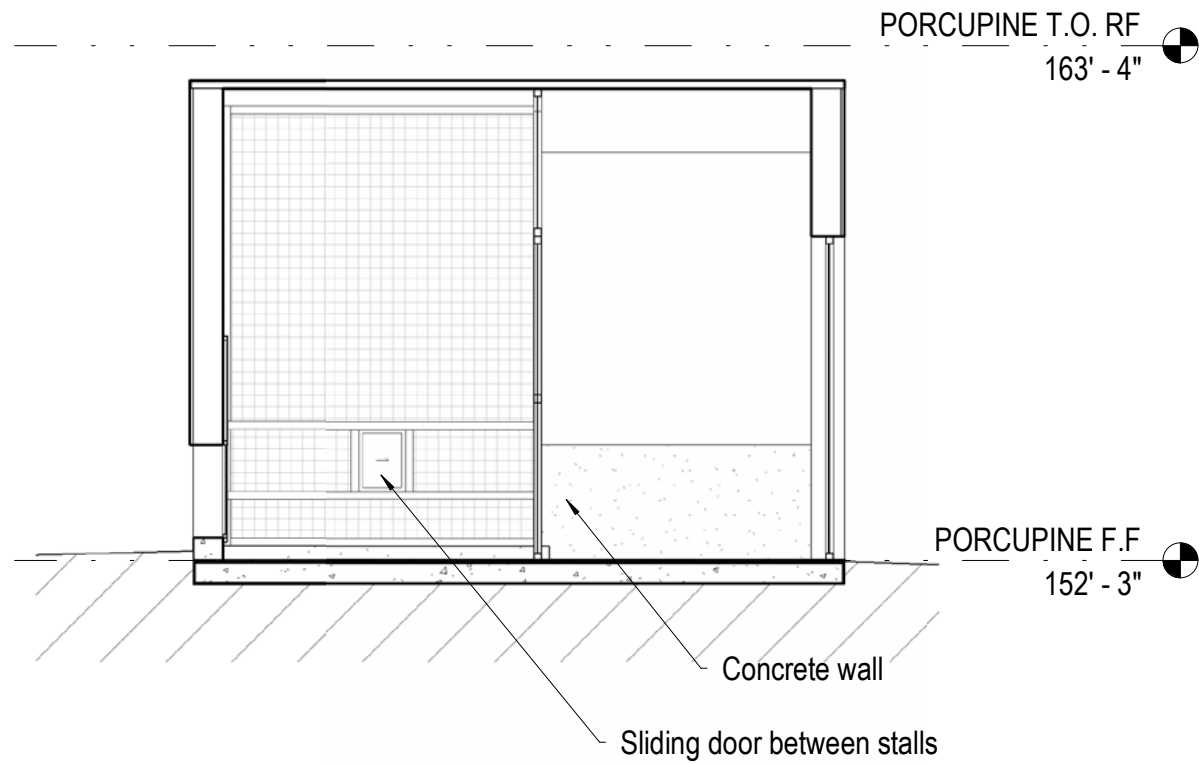
PORCUPINE SHELTER: S ELEVATION



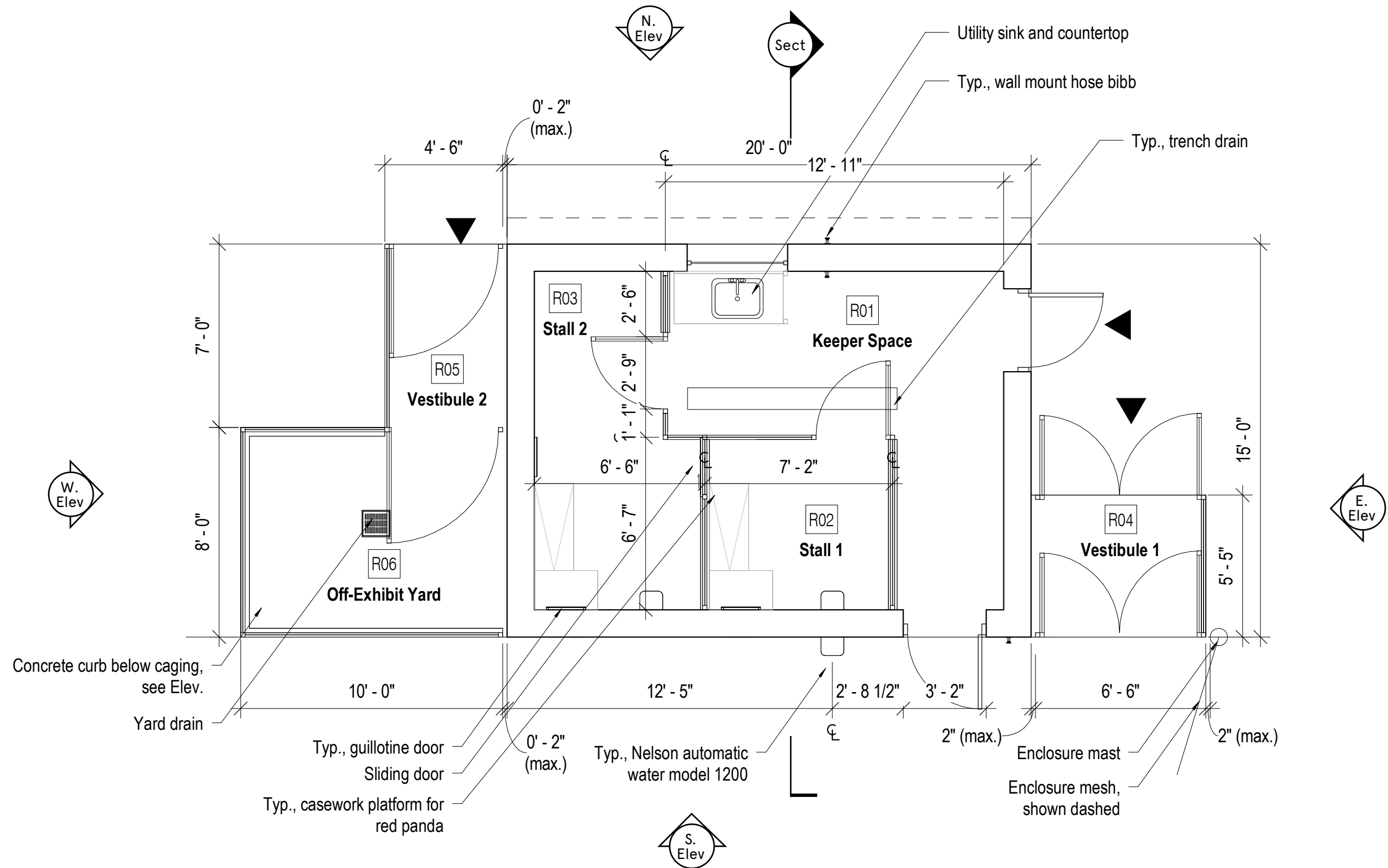
PORCUPINE SHELTER: W ELEVATION

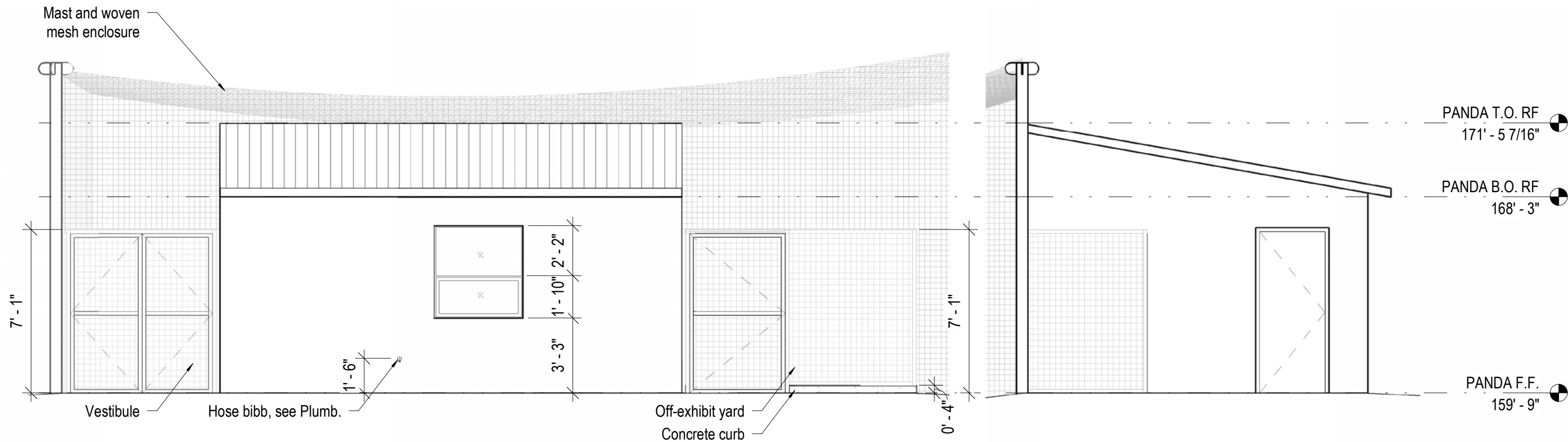


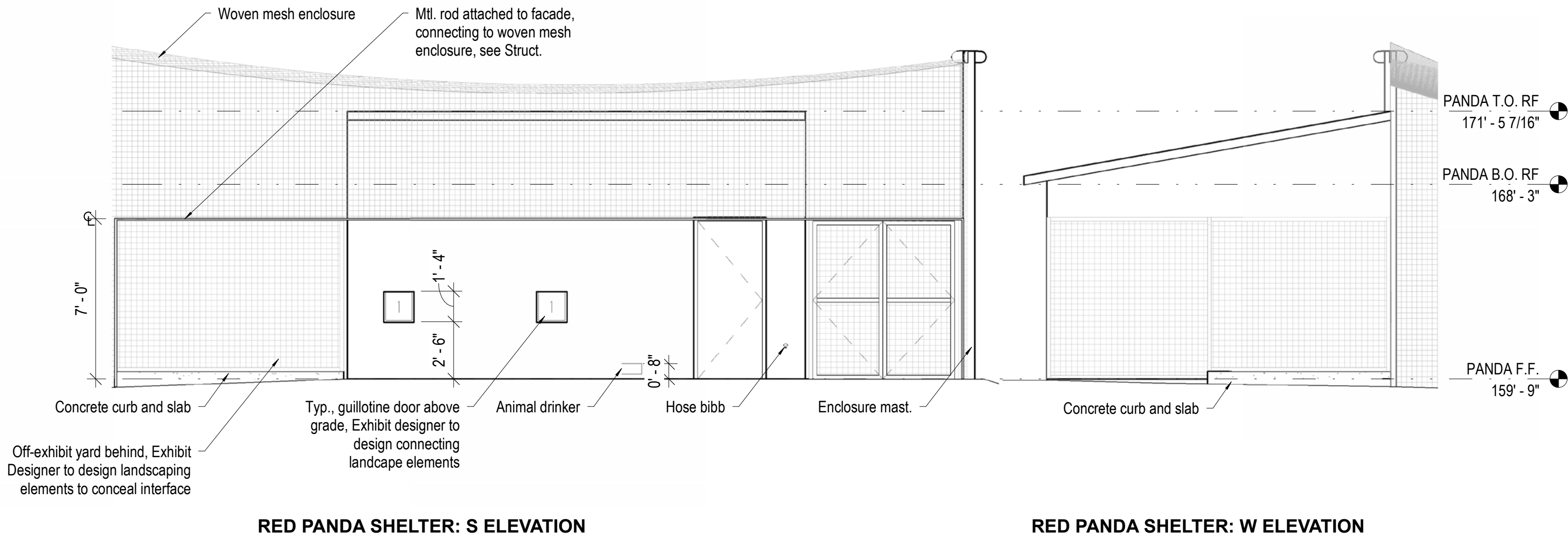
PORCUPINE SHELTER: N-S SECTION

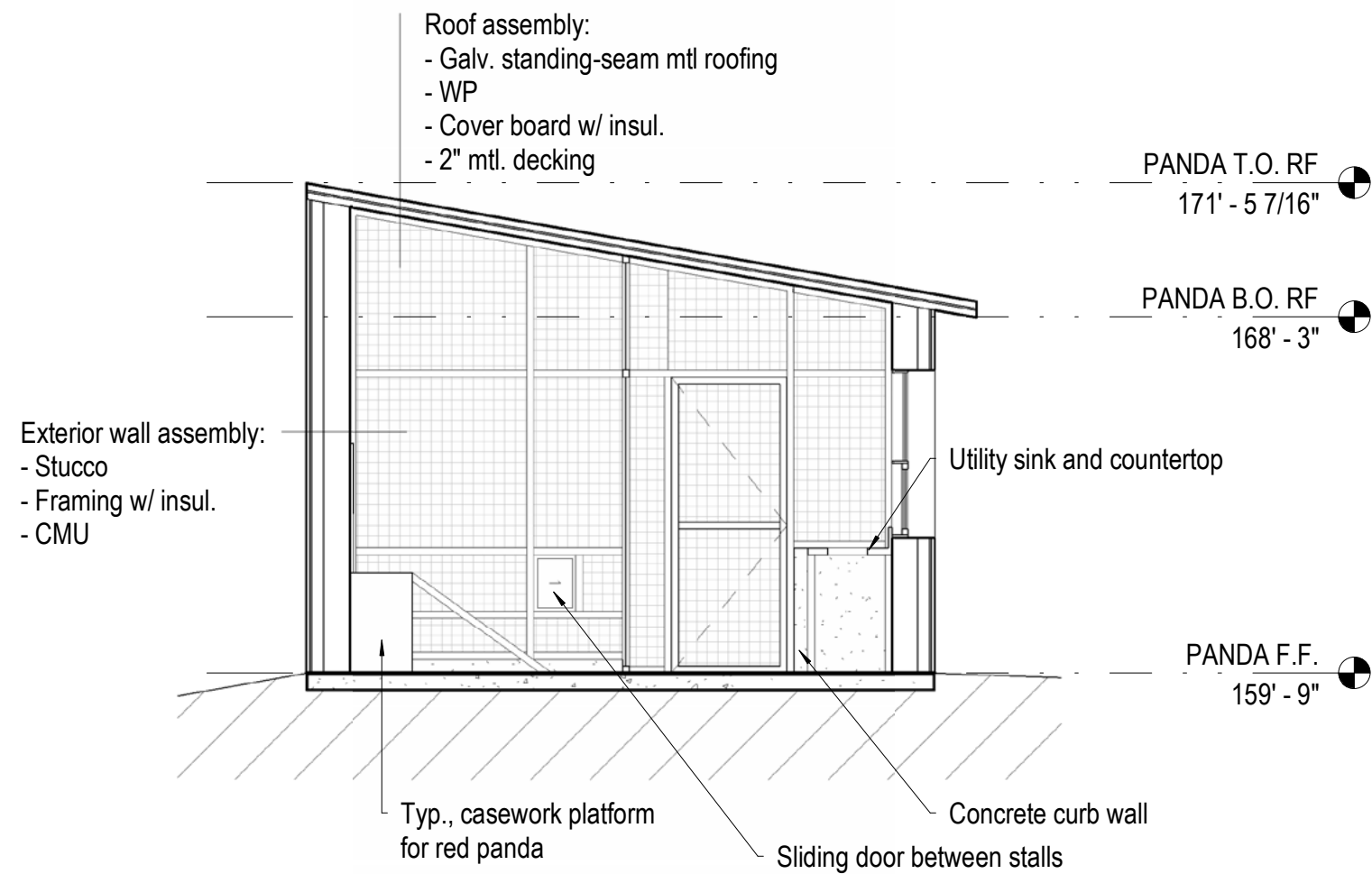


PORCUPINE SHELTER: S-W SECTION









RED PANDA SHELTER: N-S SECTION

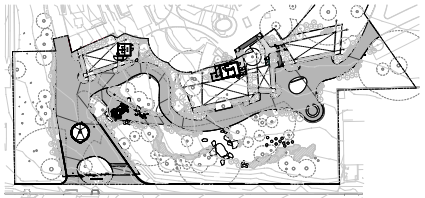
F1. Digital screen added atop
perimeter fence

F2. Monumental Zoo identity signage
added at tree pit

F3. mesh behind fence to be painted
green with cutouts of animal profiles

- ① Fence digital monitor with programming
- ② Monumental Zoo identity signage
- ③ Ticketing Kiosk

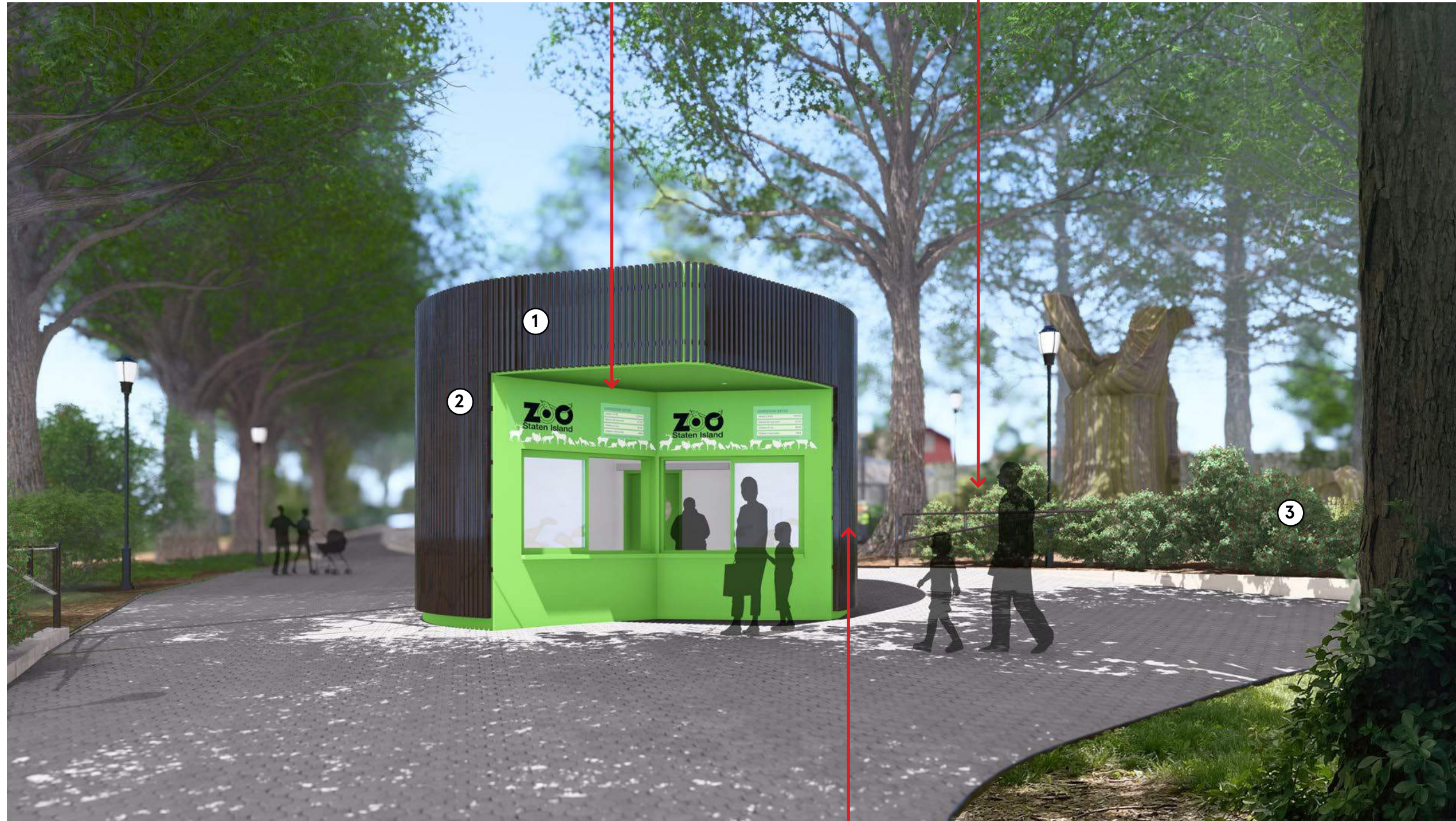
Note: Animals to be represented on perimeter fence have not yet been finalized.



1 Entry Gate at Clove Road

K1. admission signage with digital screens added above ticketing windows

P1. Bollards on two sides of kiosk are replaced with swing arm gates



- ① Ticketing Kiosk
- ② Kiosk admissions signage w/ digital screens
- ③ Secondary control: 36" high fence set back from landscaping

1 At ticketing kiosk, looking north

K2. Circular display window removed

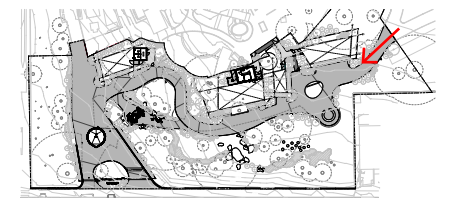


- ① Porcupine Exhibit
- ② Porcupine Holding Shelter

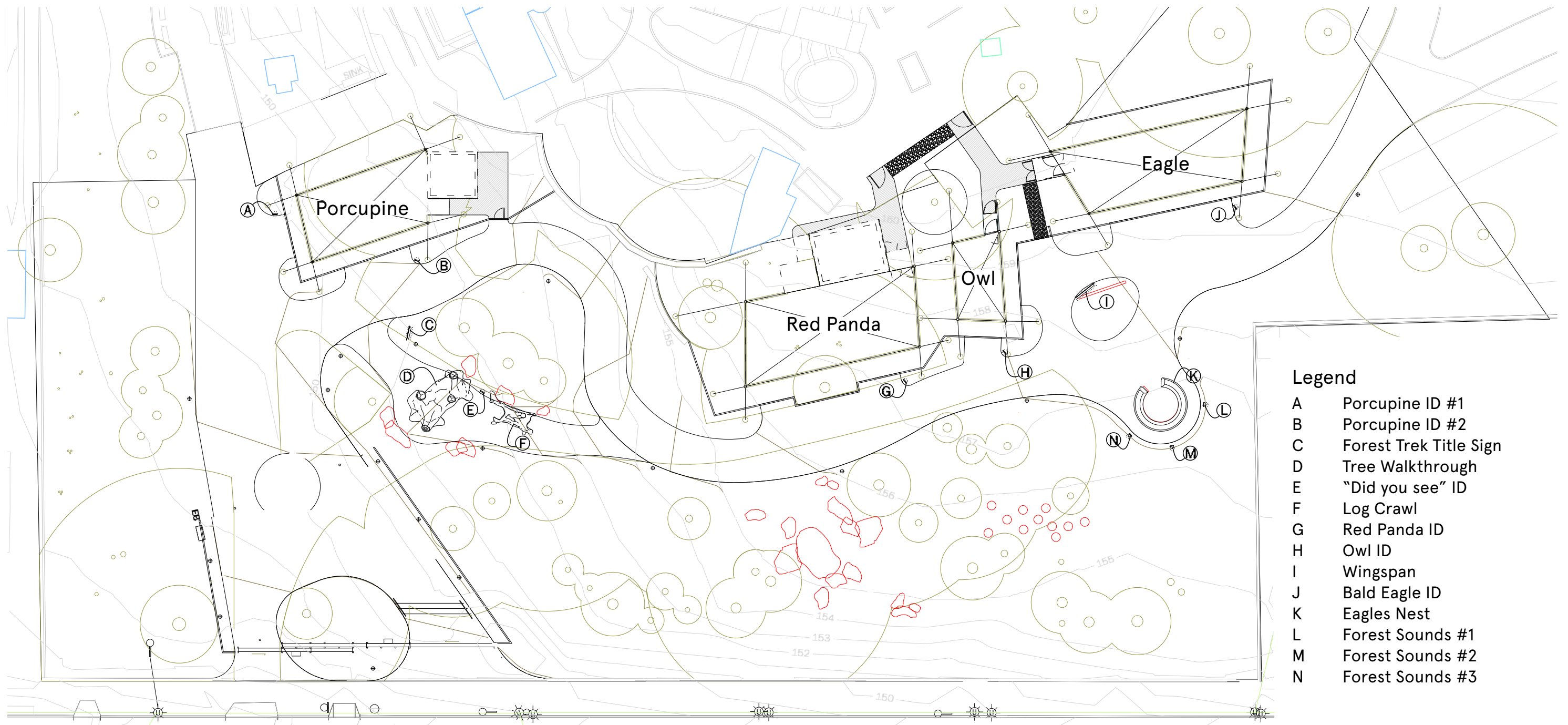
1 At Porcupine Exhibit, looking north



- ① Eagle Exhibit
 - ② Eagles Nest
 - ③ U-Turn Round
 - ④ Wingspan Interactive
- Note: The Wingspan Interactive has been relocated for clarity. See site plan for proposed orientation.
- ⑤ Owl Exhibit

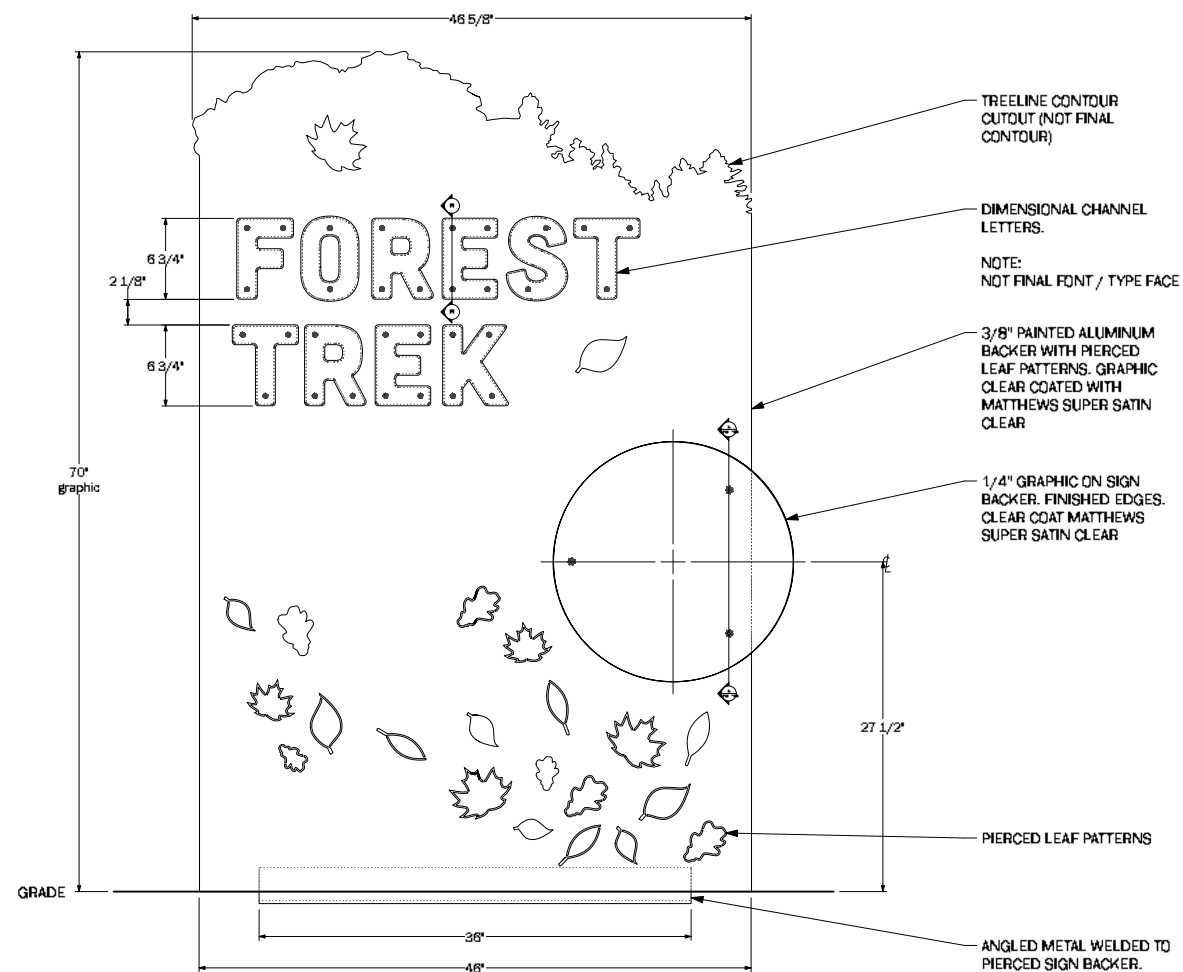


1 At Eagle Exhibit, looking west

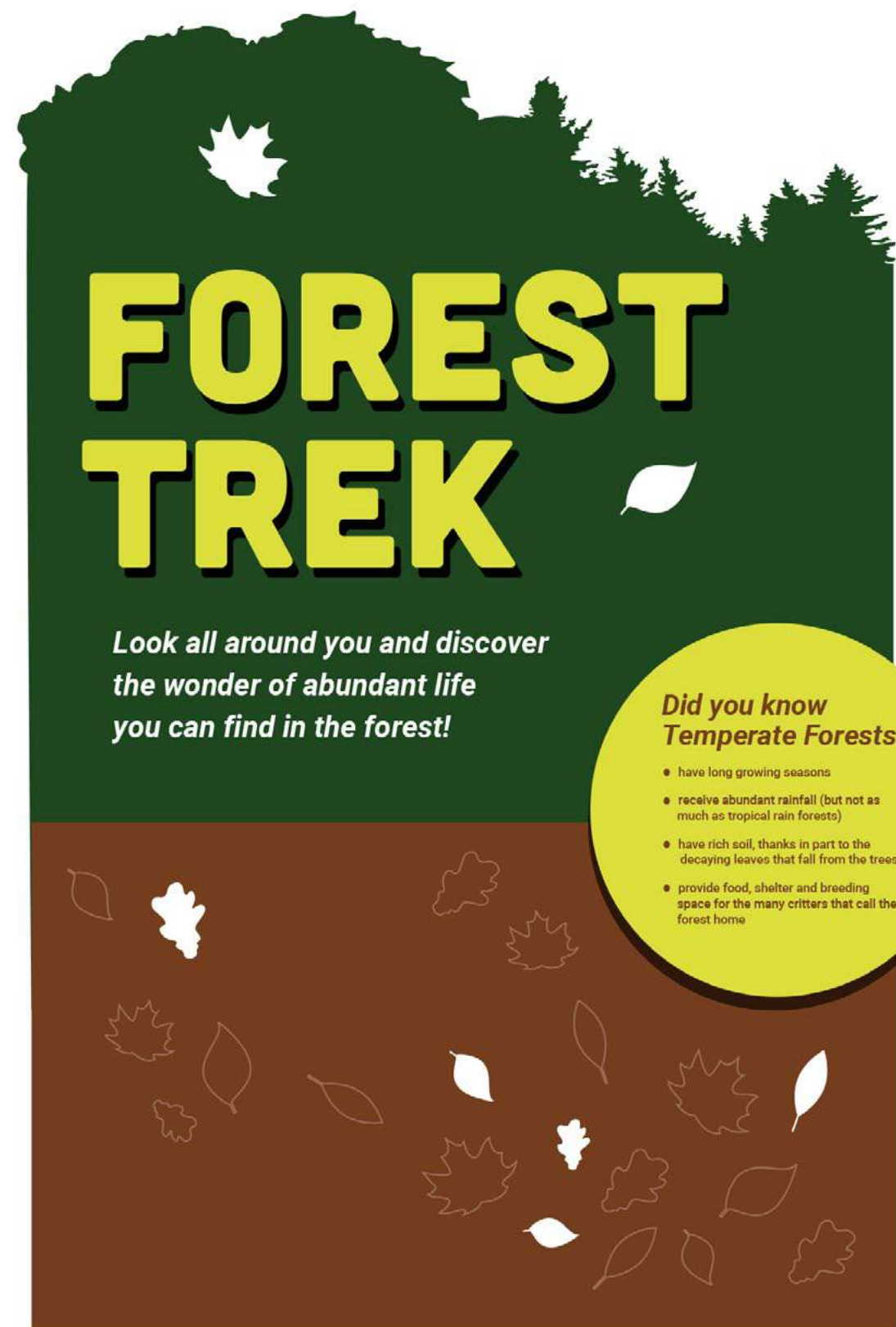




1 TITLE SIGN
Scale: 3/4" = 1'-0"



2 FRONT
Scale: 3/4" = 1'-0"

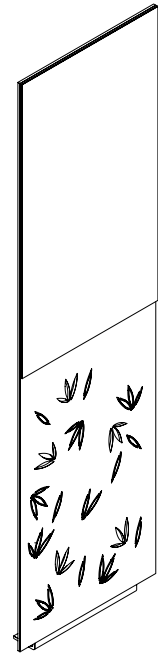


FOREST TREK

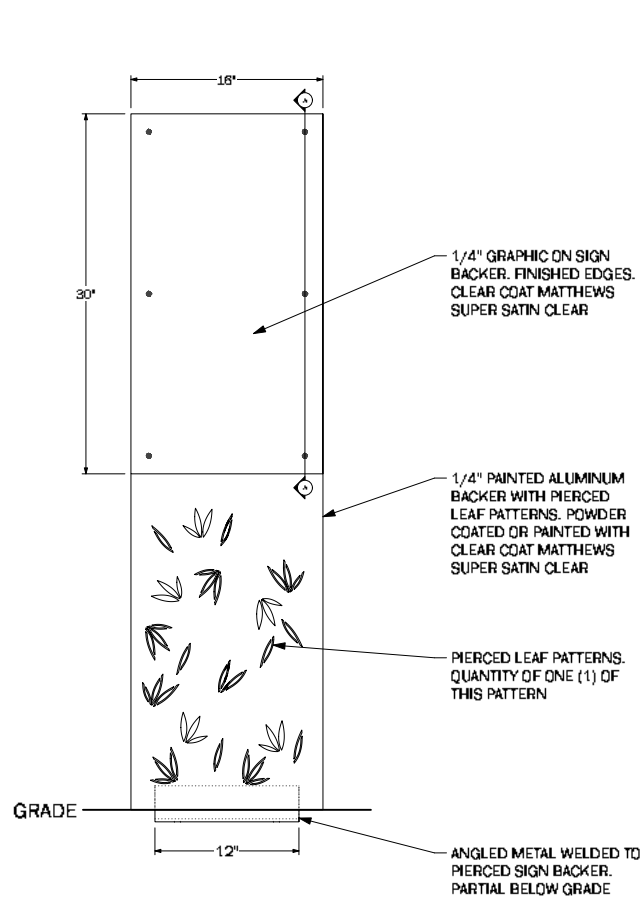
*Look all around you and discover
the wonder of abundant life
you can find in the forest!*

Did you know Temperate Forests

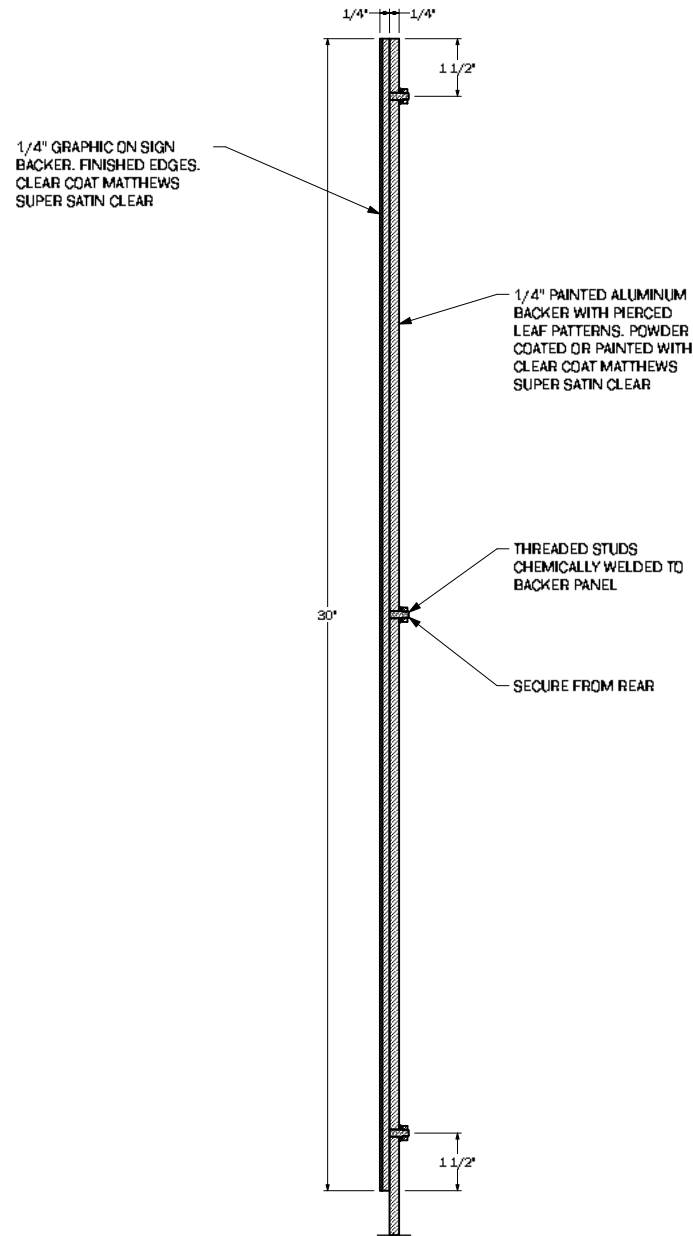
- have long growing seasons
- receive abundant rainfall (but not as much as tropical rain forests)
- have rich soil, thanks in part to the decaying leaves that fall from the trees
- provide food, shelter and breeding space for the many critters that call the forest home



1 ANIMAL ID
XX 013.00
Scale: 3/4" = 1'-0"

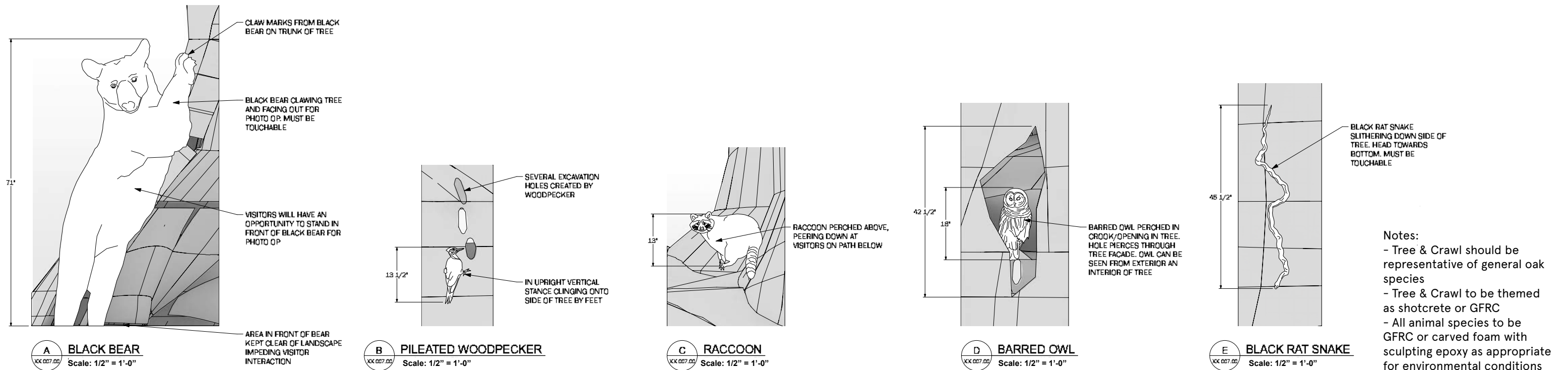
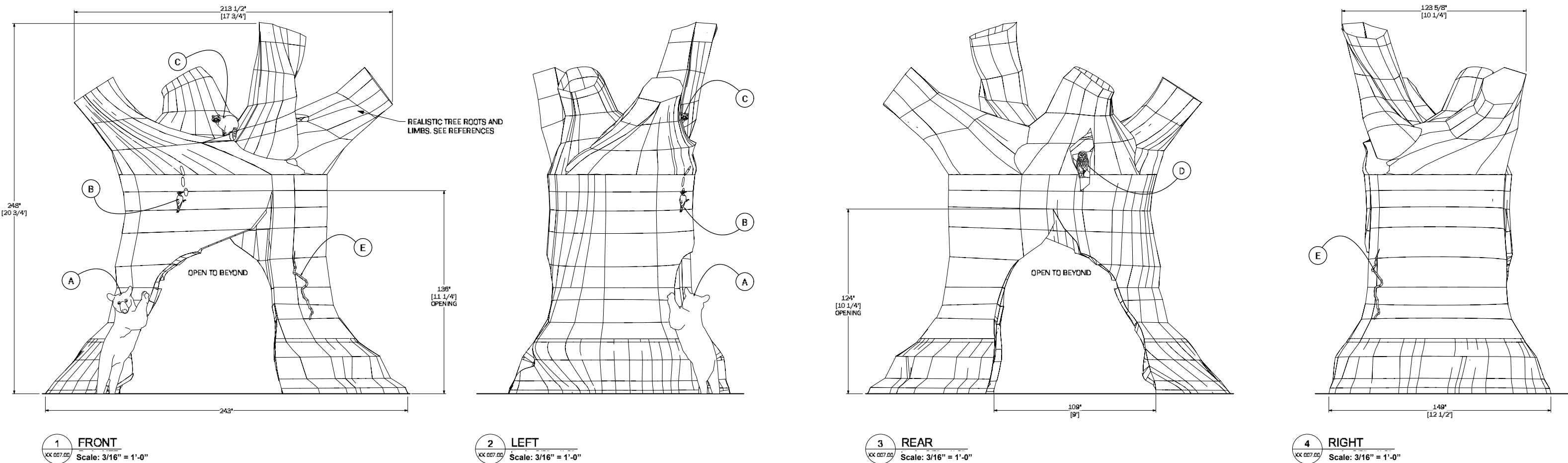


2 FRONT
XX 013.00
Scale: 3/4" = 1'-0"



A SECTION
Scale: 1/2.5





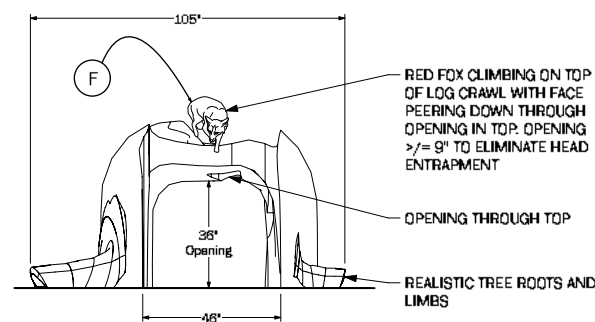
Notes:

- Tree & Crawl should be representative of general oak species
- Tree & Crawl to be themed as shotcrete or GFRC
- All animal species to be GFRC or carved foam with sculpting epoxy as appropriate for environmental conditions

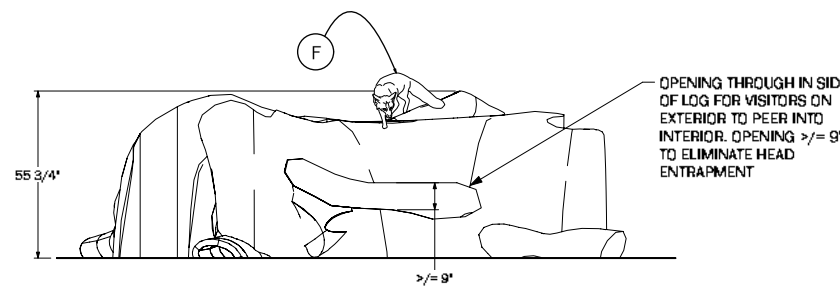


1 NORTH ELEVATION
Scale: 1/8" = 1'-0"

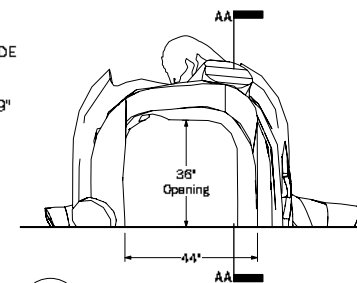
TEXTURE LOOK & FEEL



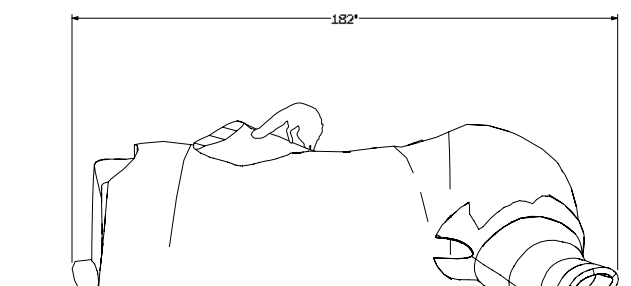
5 FRONT
Scale: 3/16" = 1'-0"



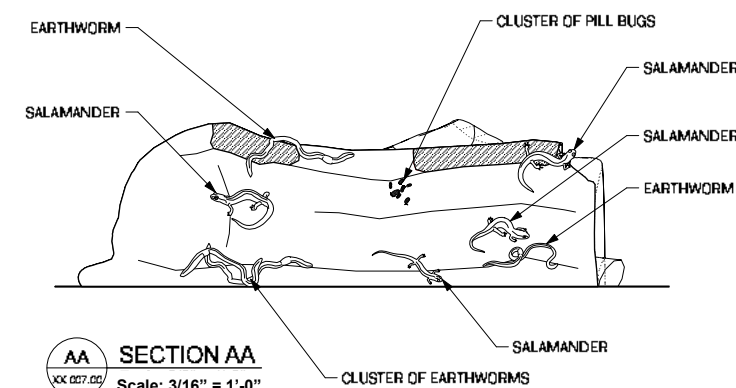
6 RIGHT
Scale: 3/16" = 1'-0"



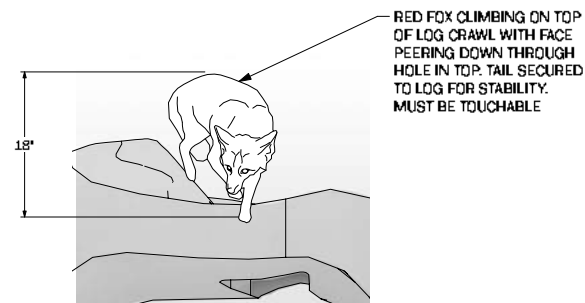
7 REAR
Scale: 3/16" = 1'-0"



8 LEFT
Scale: 3/16" = 1'-0"

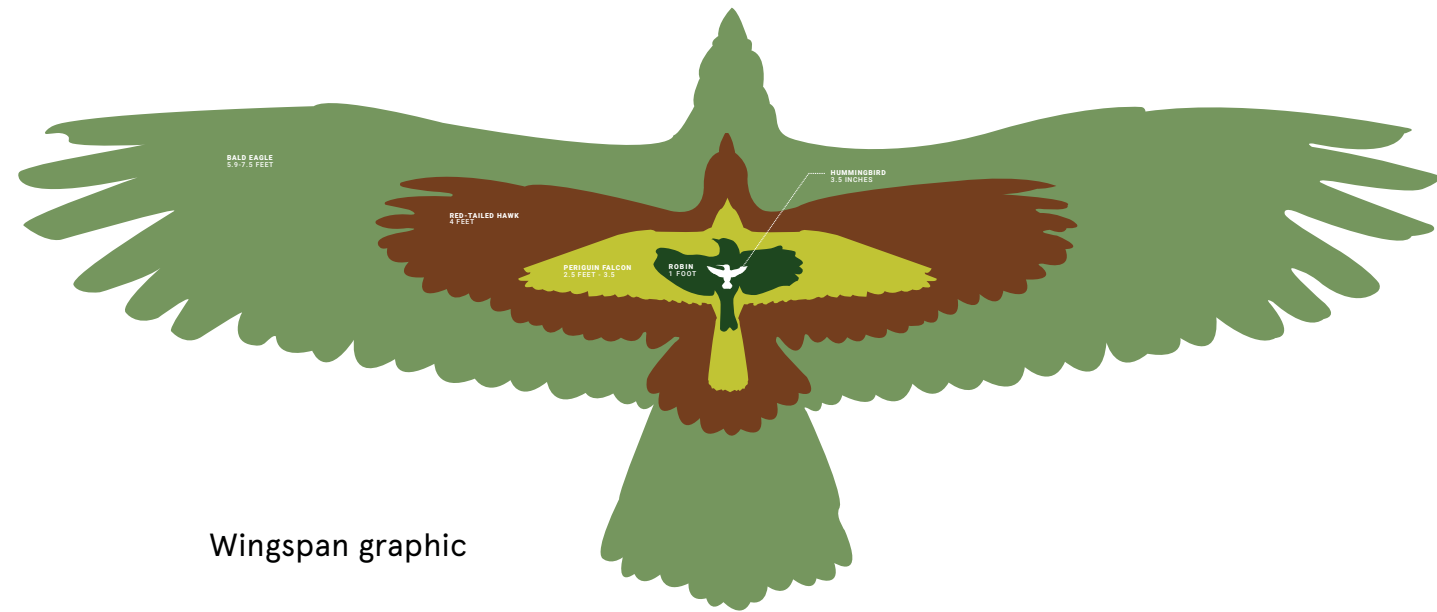


AA SECTION AA
Scale: 3/16" = 1'-0"

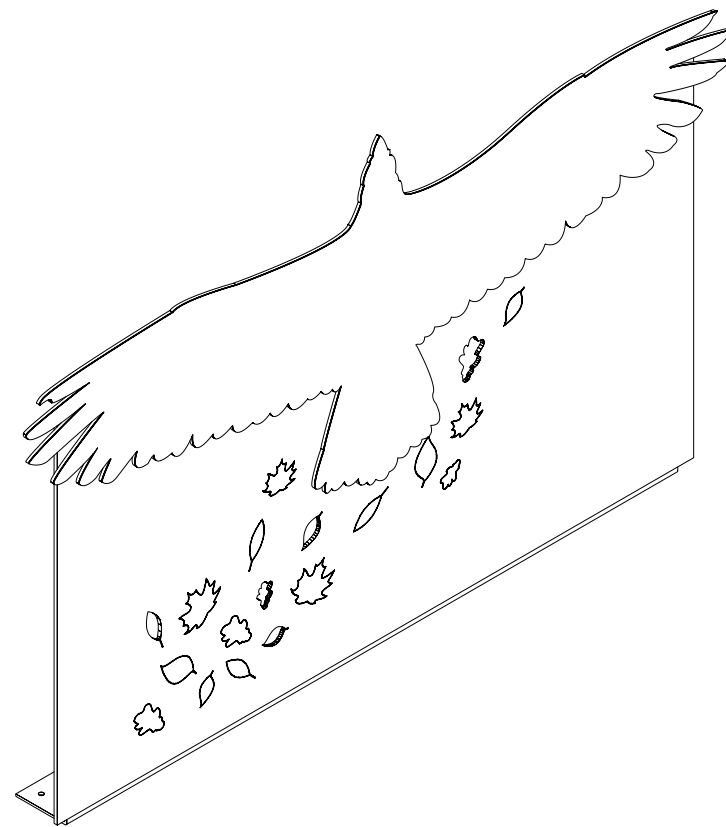


F RED FOX
Scale: 1/2" = 1'-0"

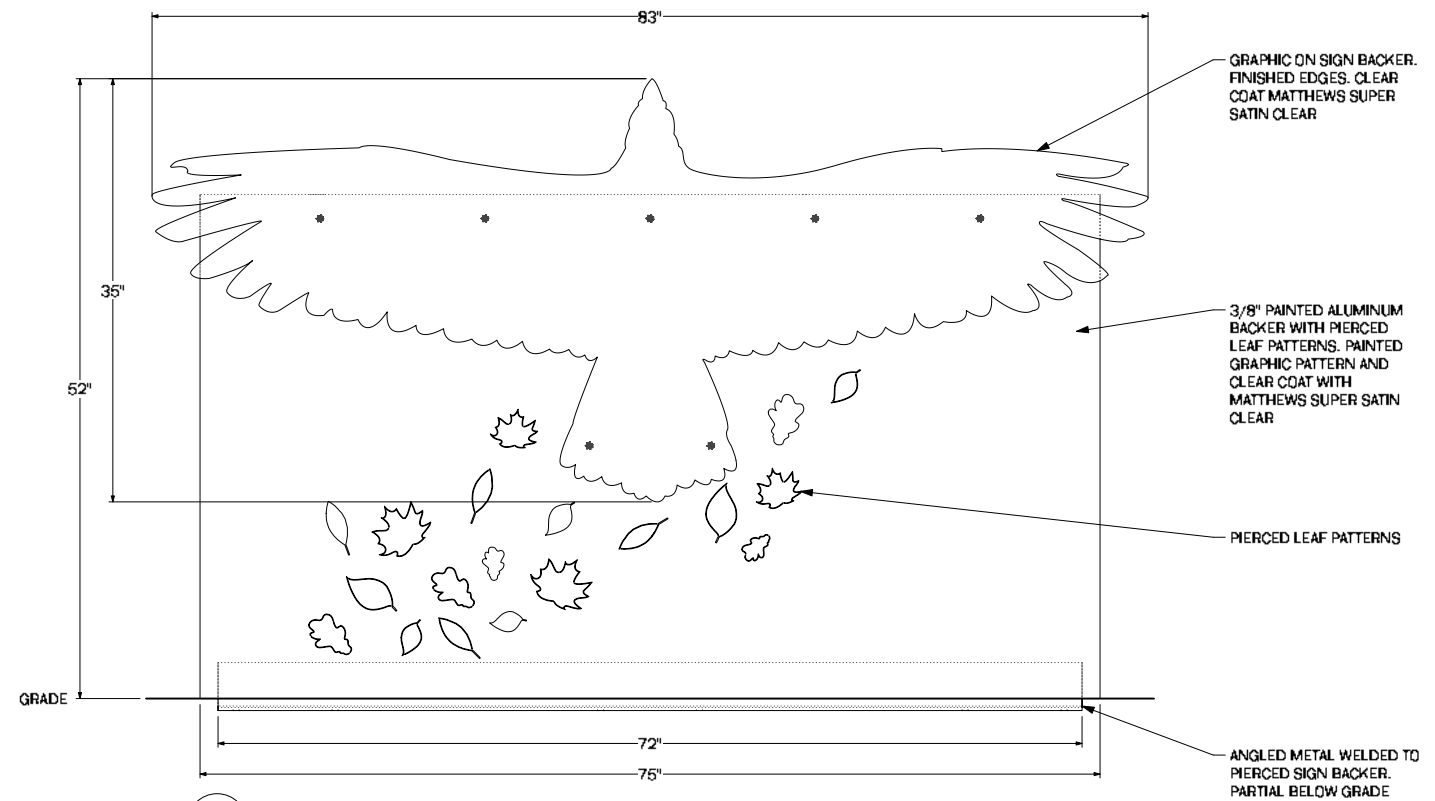
- Notes:
- Tree & Crawl should be representative of general oak species
 - Tree & Crawl to be themed as shotcrete or GFRC
 - All animal species to be GFRC or carved foam with sculpting epoxy as appropriate for environmental conditions



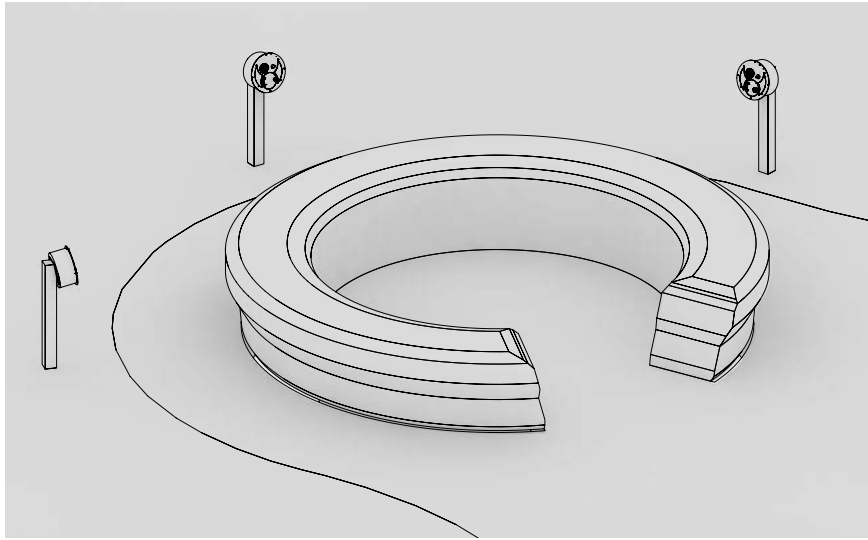
Wingspan graphic



1 WINGSPAN
Scale: 3/4" = 1'-0"



2 FRONT
Scale: 3/4" = 1'-0"



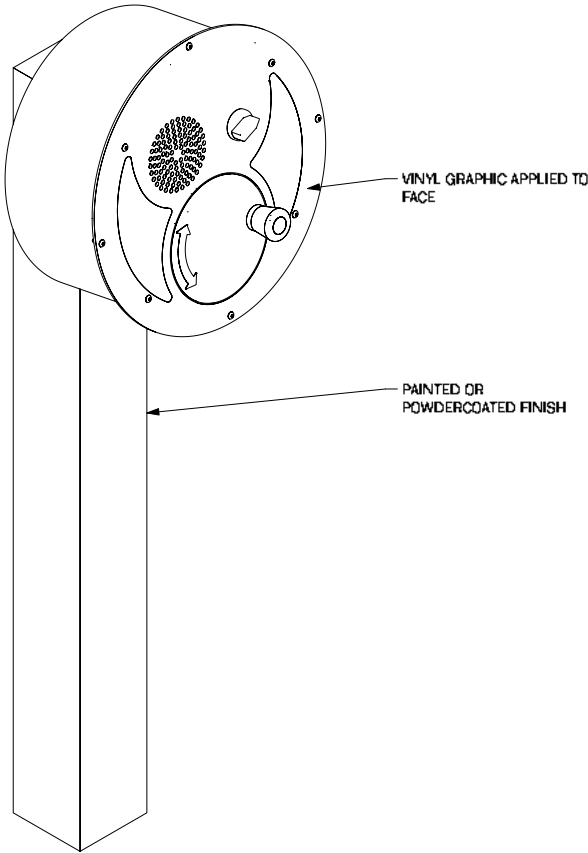
1 EAGLES NEST
XX 011.00



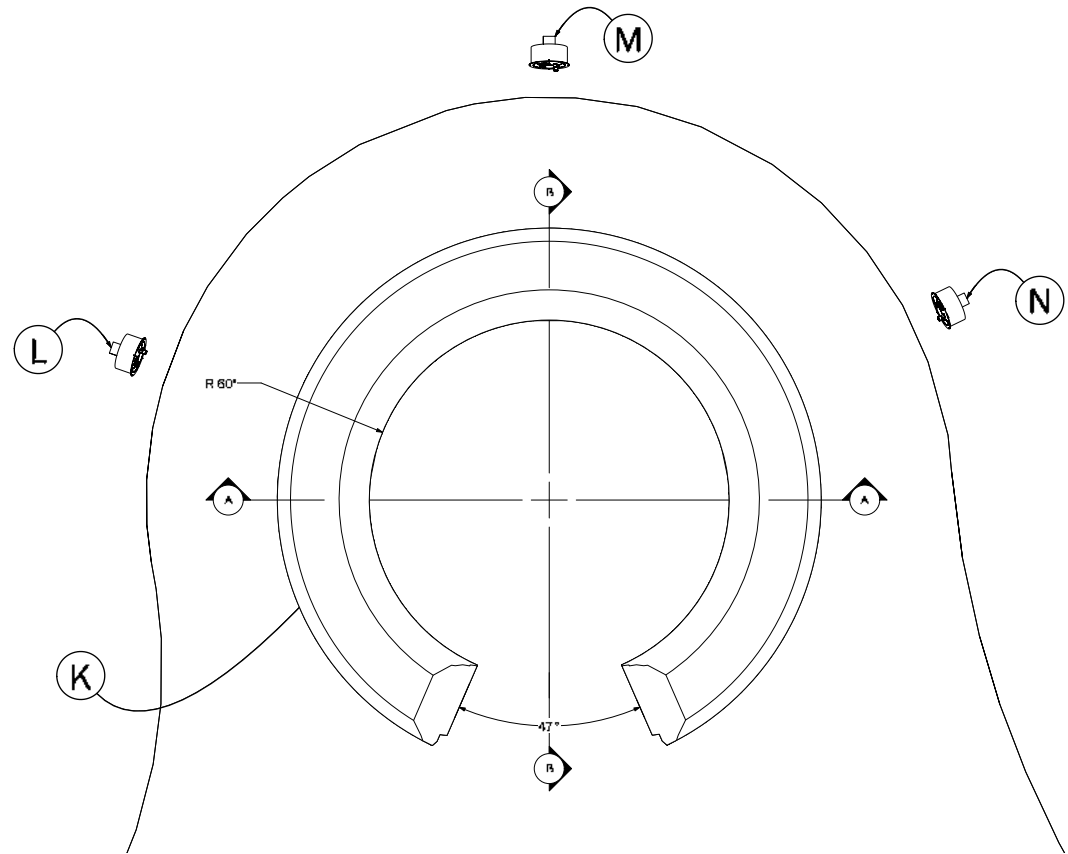
Precedent of Eagles Nest



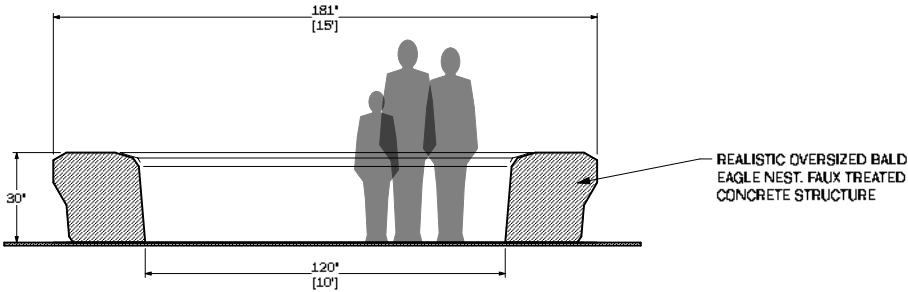
Precedent of U-Turn Round



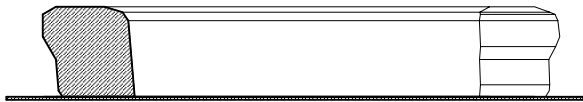
3 U-TURNAROUND DEVICE
XX 011.00
Scale: 1-1/2" = 1'-0"



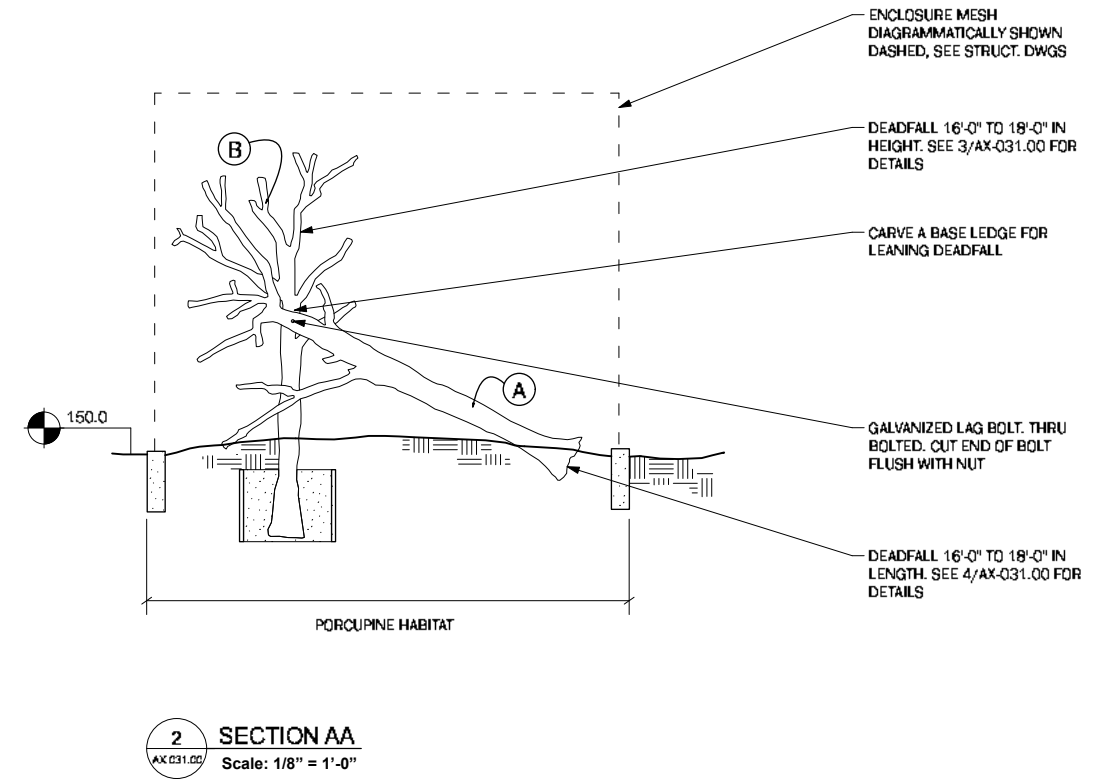
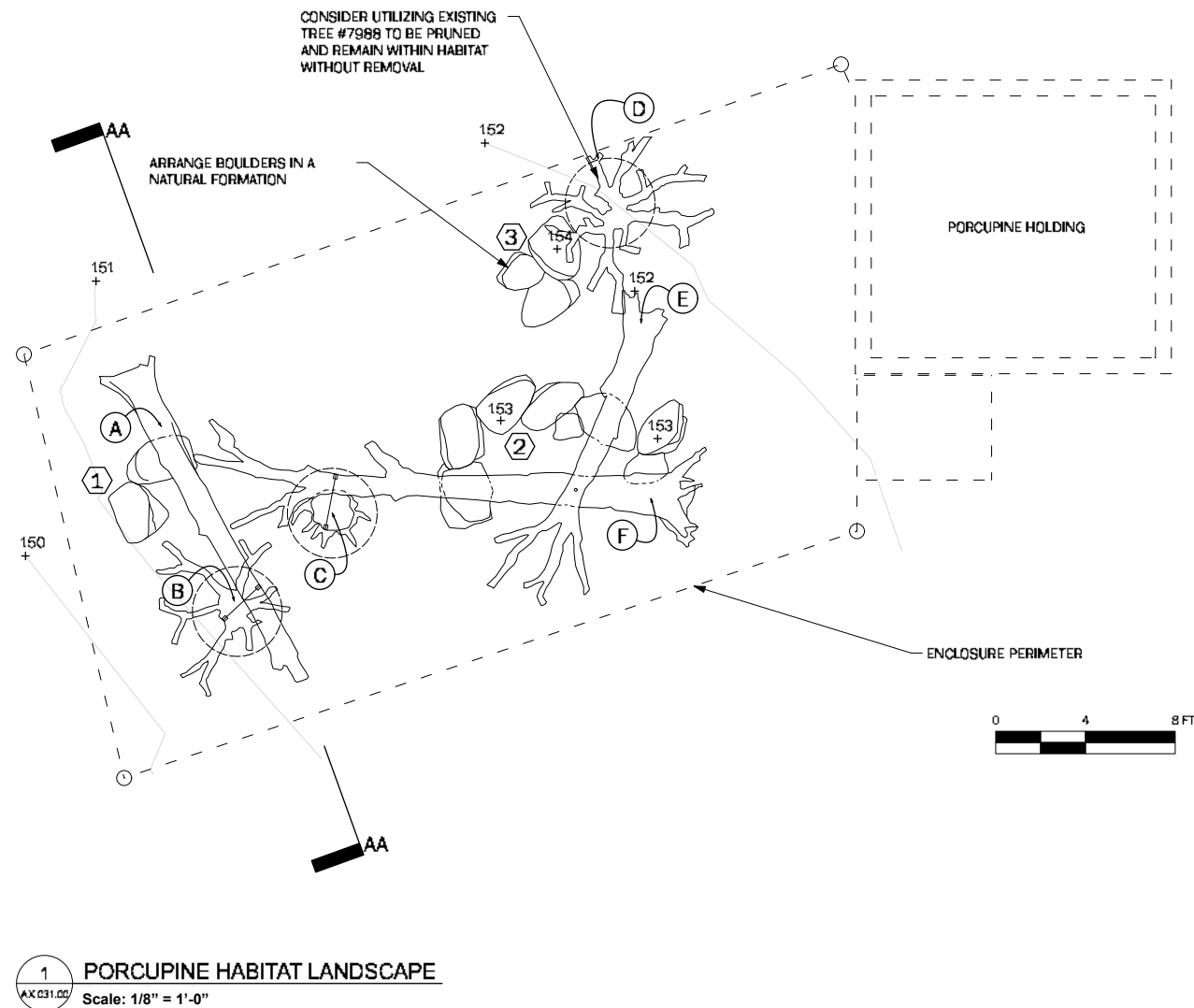
2 PLAN
XX 011.00
Scale: 3/16" = 1'-0"



A SECTION A
XX 011.00
Scale: 3/16" = 1'-0"

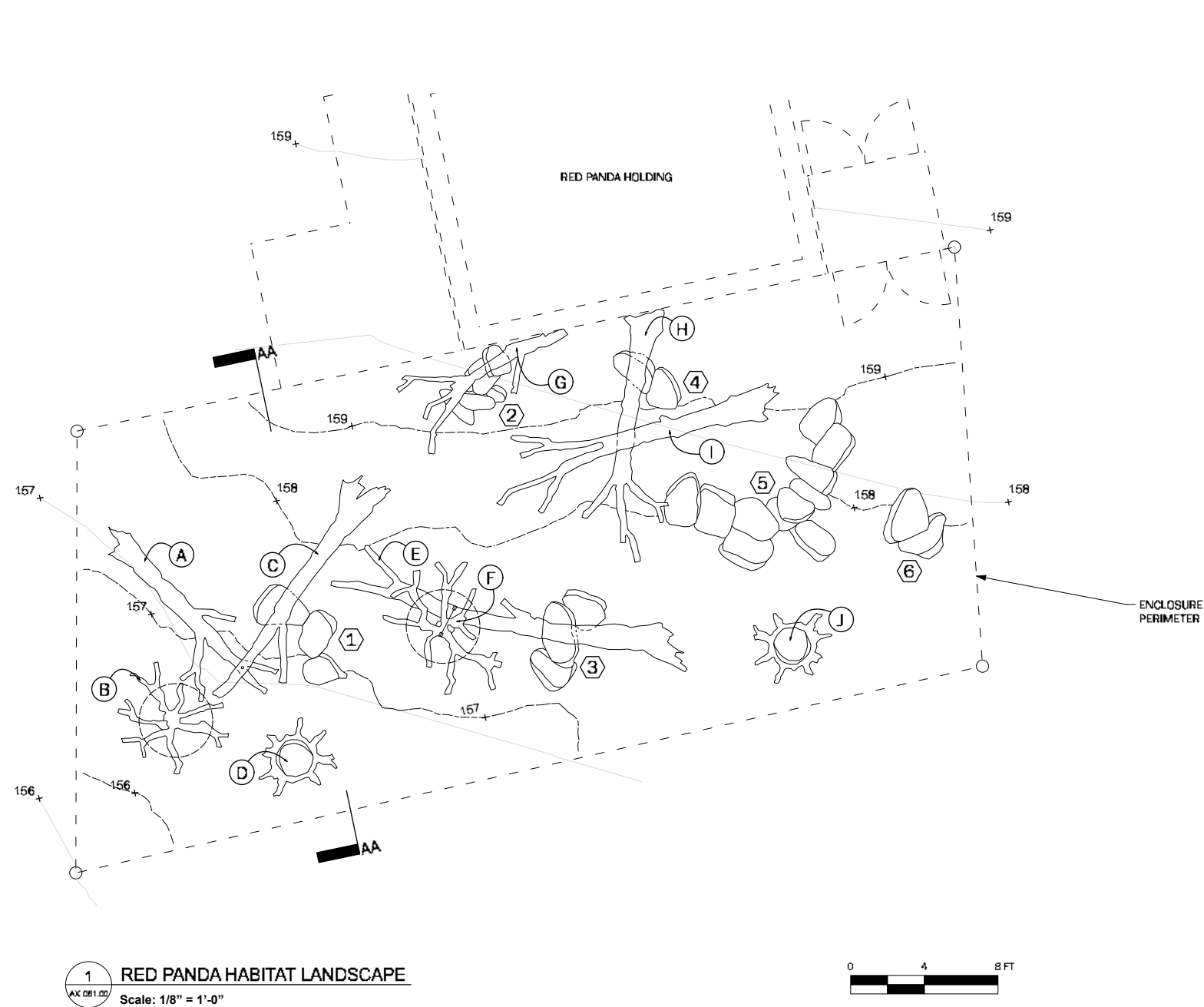


B SECTION B
XX 011.00
Scale: 3/16" = 1'-0"



Precedent: Porcupine exhibit at National Zoo, Washington DC

Key:
A-F Natural Deadfall
1-3 Natural Boulder Groups

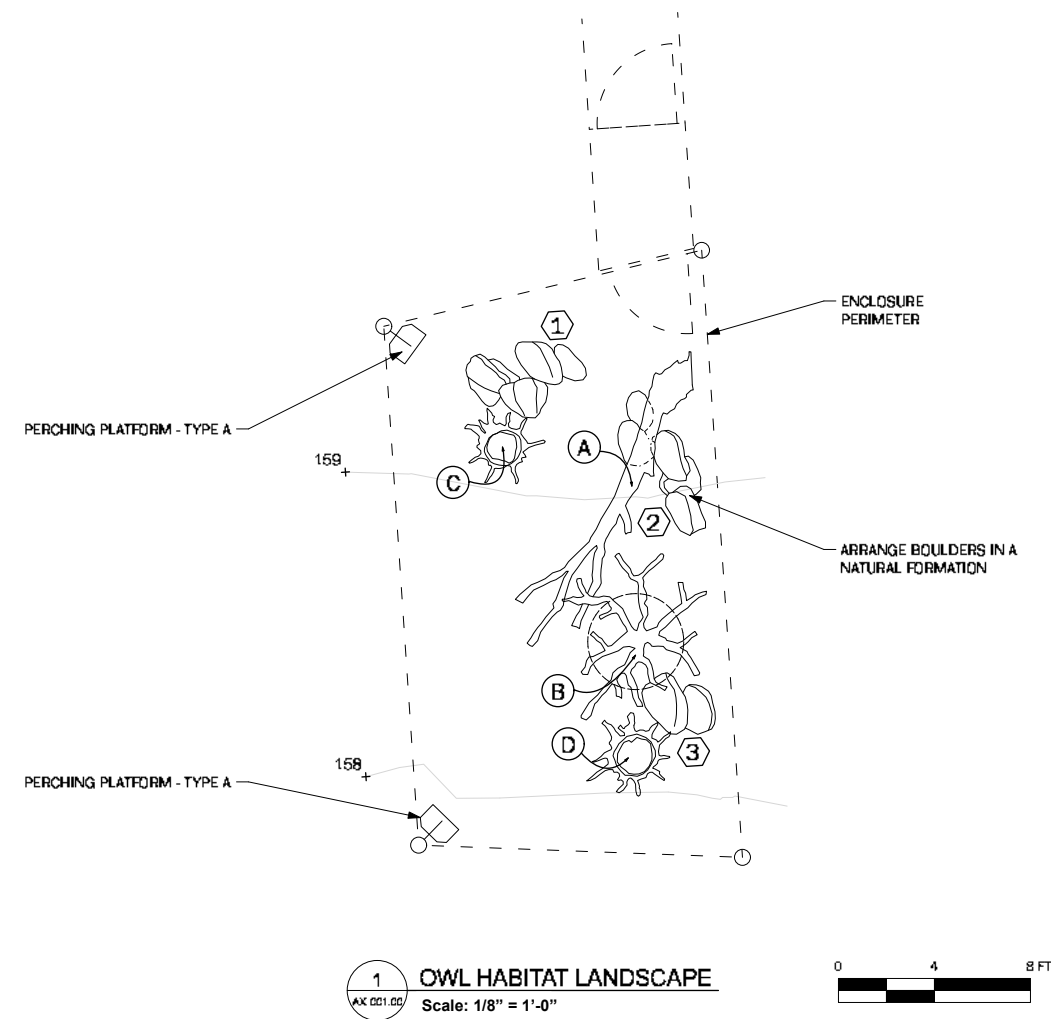


2 SECTION AA
Scale: 1/8" = 1'-0"



Precedent: Red Panda exhibit at Seneca Park Zoo, NY

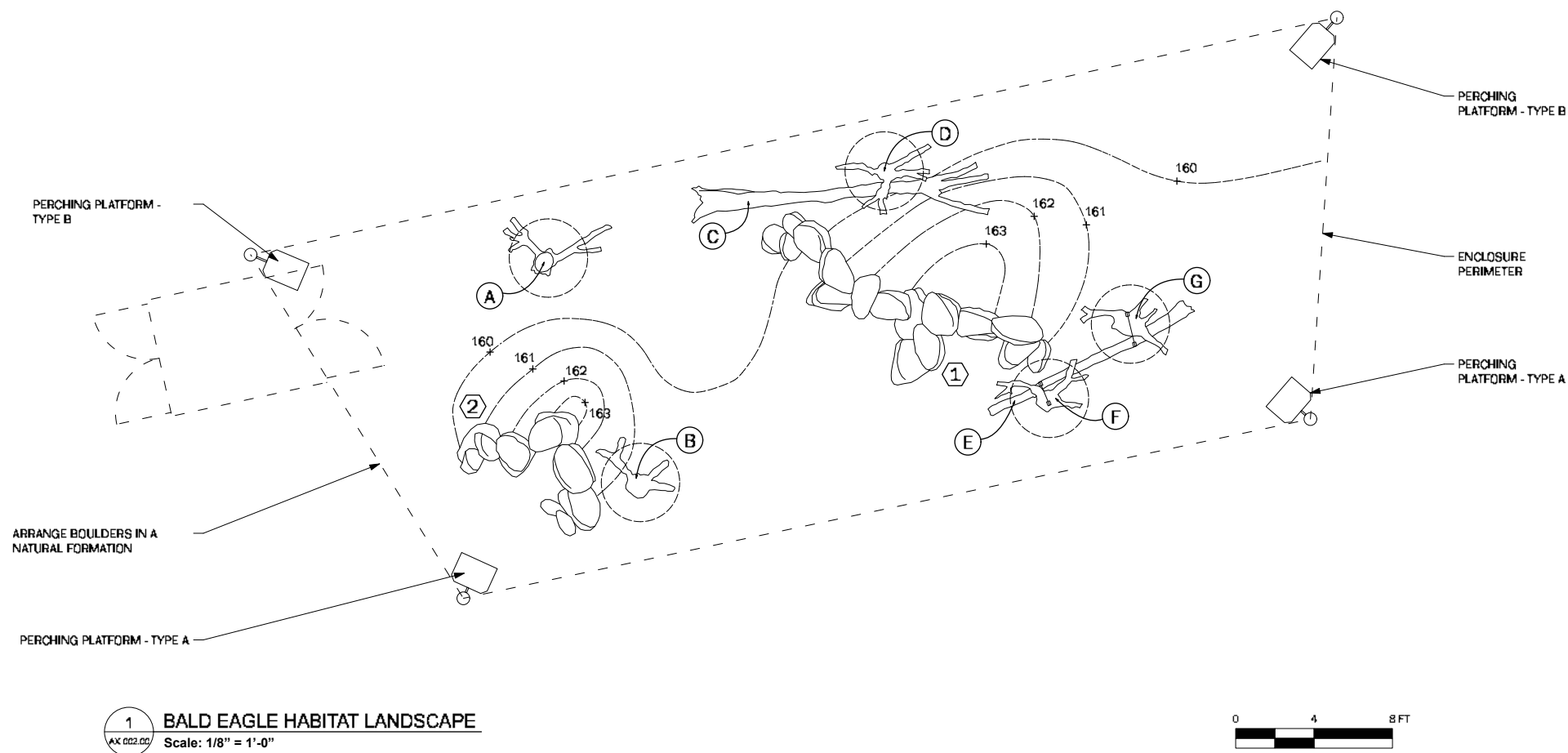
Key:
A-J Natural Deadfall
1-6 Natural Boulder Groups



Key:
 A-D Natural Deadfall
 1-3 Natural Boulder Groups



Precedent: Great Horned Owl exhibit at ZooMontana, MT



Precedent: Bald eagles exhibit at Cincinnati Zoo, OH

Key:
A-G Natural Deadfall
1-2 Natural Boulder Groups

TREE



FAGUS GRANDIFOLIA
AMERICAN BEECH



QUERCUS RUBRA
EASTERN RED OAK

SEMI-EVERGREEN
PLANTING



RHODODENDRON VISCOSUM
SWAMP AZALEA



ILEX GLABRA
INKBERRY

BUFFER PLANTING



ILEX GALBRA
INKBERRY



RHODODENDRON MAXIMUM
ROSEBAY RHODODENDRON



CEANOTHUS AMERICANUS
NEW JERSEY TEA



CORNUS ALTERNIFOLIA
PAGODA DOGWOOD

GROUNDCOVER

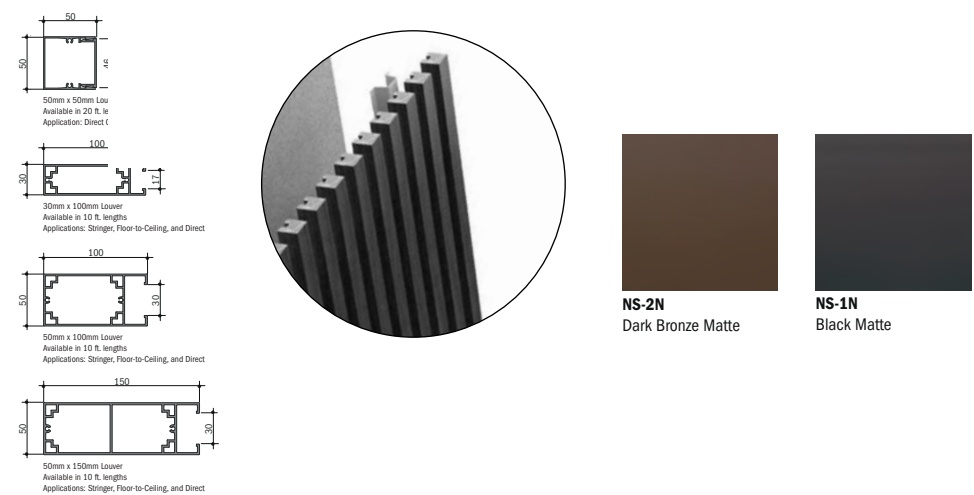


PACHYSANDRA PROCUMBENS
ALLEGHENY SPURGE



ANEMONE CANADENSIS
CANADA ANEMONE

Kiosk Cladding: Aluminum battens
(with a solid color)



Reference images from product catalogs

Metal Coating Colors: Perimeter Fence, Exclusion Fences, Animal Enclosure Masts, Landscape Edging

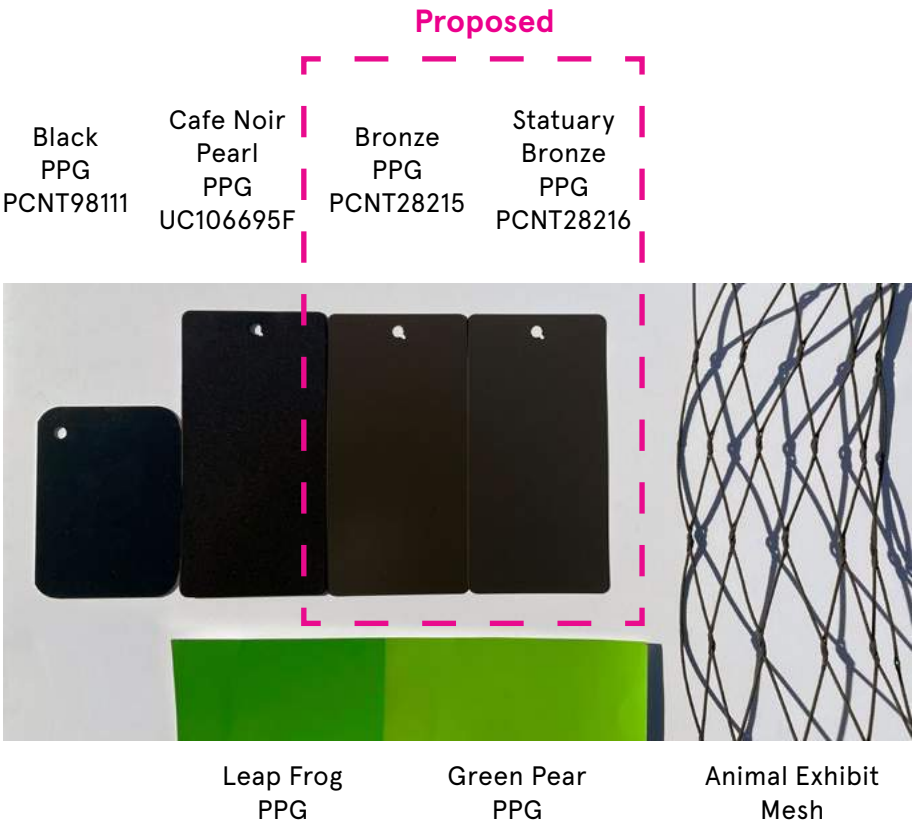


Image of samples next to animal enclosure material (black oxide stainless steel woven mesh) and green paint samples for perimeter fence mesh

Primary Path: PDC-approved concrete pavers to match existing



Image of existing pavers

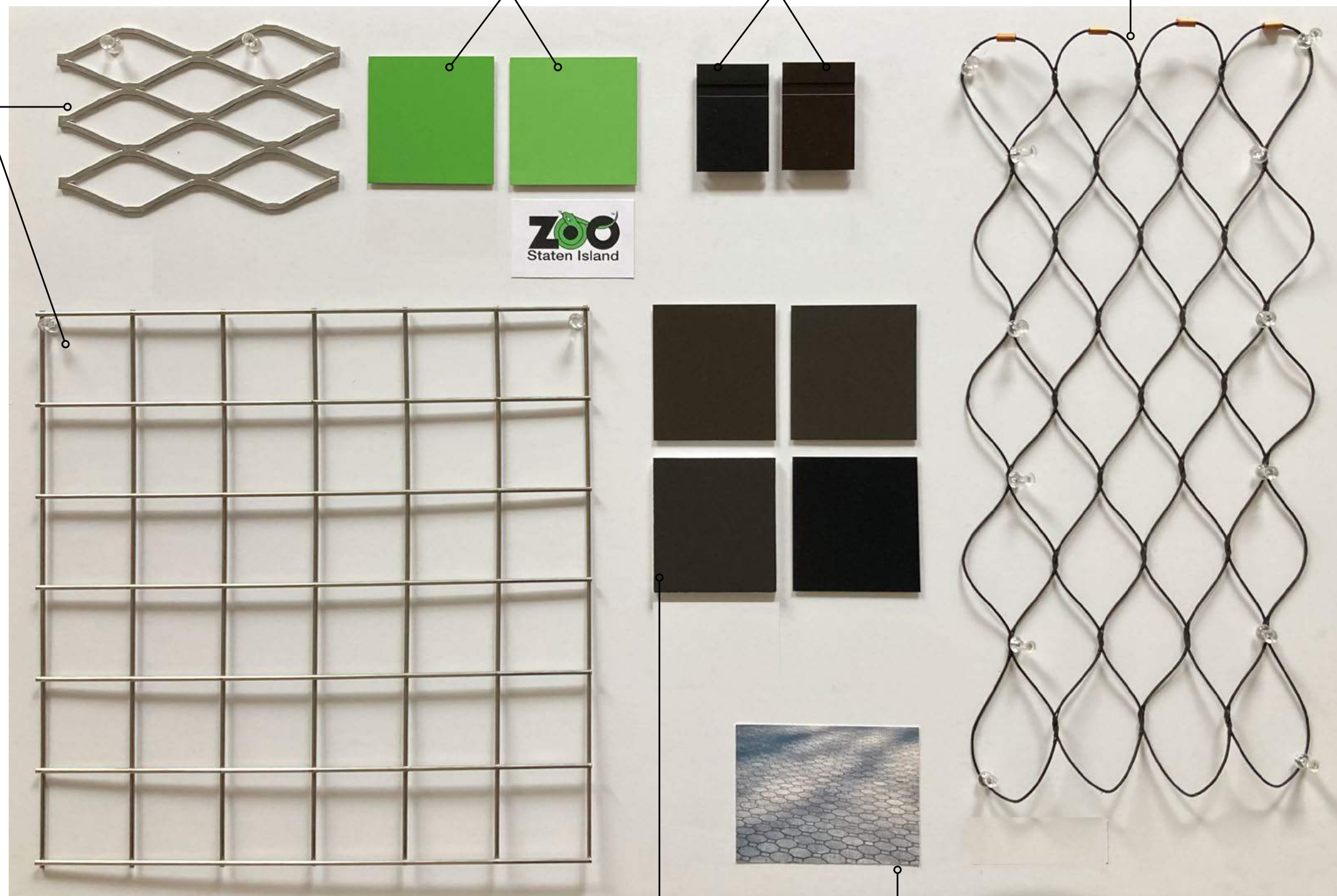
Forest Fence mesh (painted green) and Exclusion fence:

- BOD 1: expanded metal
- BOD 2: wire cloth

Kiosk exterior wall and Forest Fence mesh: High-performance coating colors to match Zoo Logo

Kiosk alum. battens: dark bronze aluminum battens

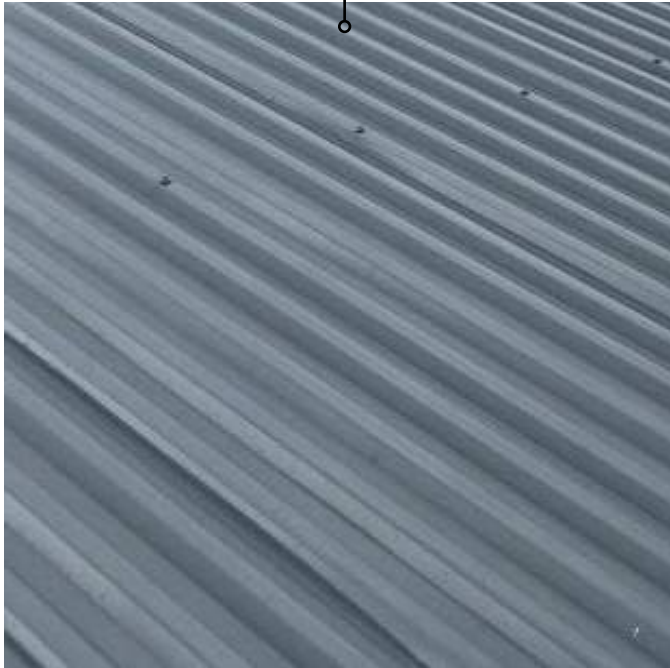
Animal enclosure: hand woven wire mesh



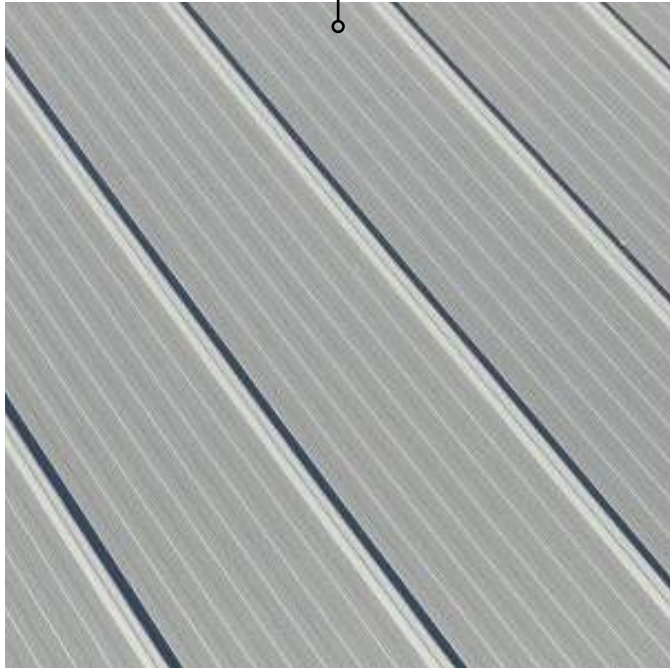
Forest Fence posts, enclosure mast, exclusion fence, path edging: dark bronze high-performance coating

New primary path: concrete paver to match existing

Porcupine Shelter Roof:
Painted structural roof deck



Red Panda Shelter Roof:
Standing seam metal insulated
roof panels



Proposed colors for Animal
Shelter Exterior Finishes:



LIGHT FRENCH GRAY

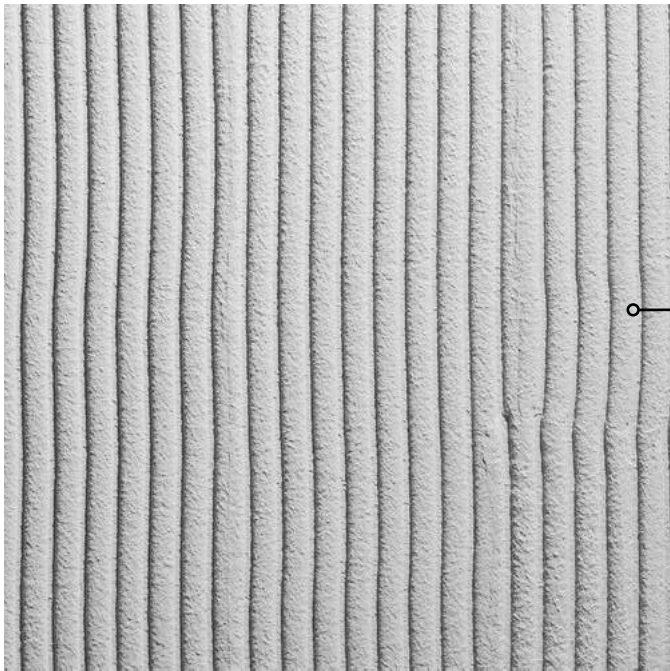


PEARL GRAY

Porcupine Shelter
Exterior Wall Caging:
Galvanized mesh and tube
frame



Both Animal Shelters
Exterior Walls:
Rendered surface with vertical
raked finish



EXCERPT FROM CONCEPT SUBMISSION PRESENTATION

Exist. trench drains at connections to adjacent paths to be replaced

Exist. animal enclosures (fencing, curbs, walls, etc) & holding structures (Shelter, Shed, Pony Stable) w/in Project Area to be demo'd

Exist. retaining wall

Exist. trees

Exist. Ticketing Kiosk to be demo'd

Exist. fence to stay along west and east edges of project area

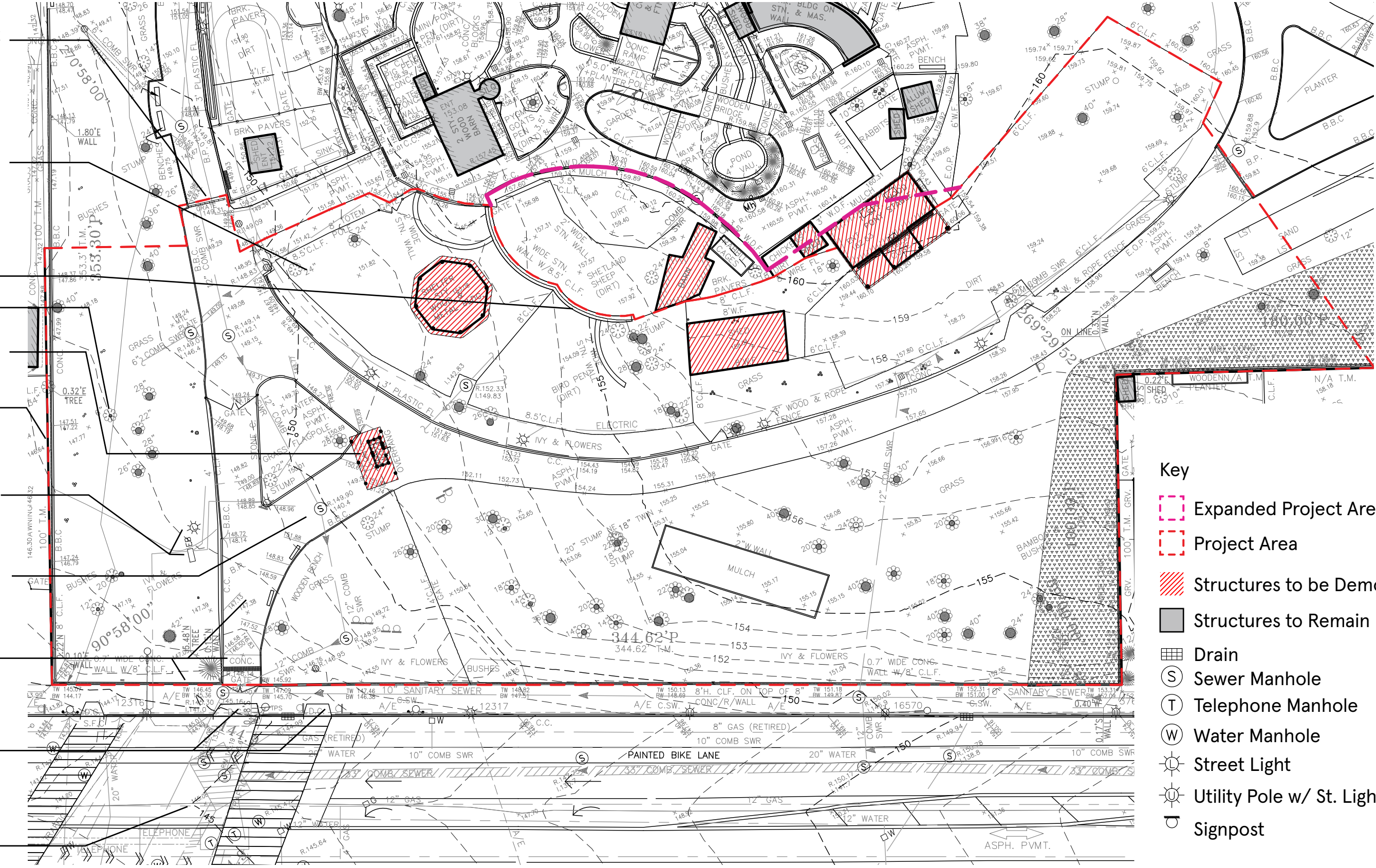
Exist. Service Entrance Box and Photocell Sensor

Exist. Site Infrastructure to reuse, cap, or demo

Area for new fence, entry plaza, ticketing kiosk, service access along Clove Road

Exist. pedestrian and vehicular curb cut locations

Exist. Public Infrastructure



- Key
- Expanded Project Area
 - Project Area
 - Structures to be Demo'd
 - Structures to Remain
 - Drain
 - Sewer Manhole
 - Telephone Manhole
 - Water Manhole
 - Street Light
 - Utility Pole w/ St. Light
 - Signpost

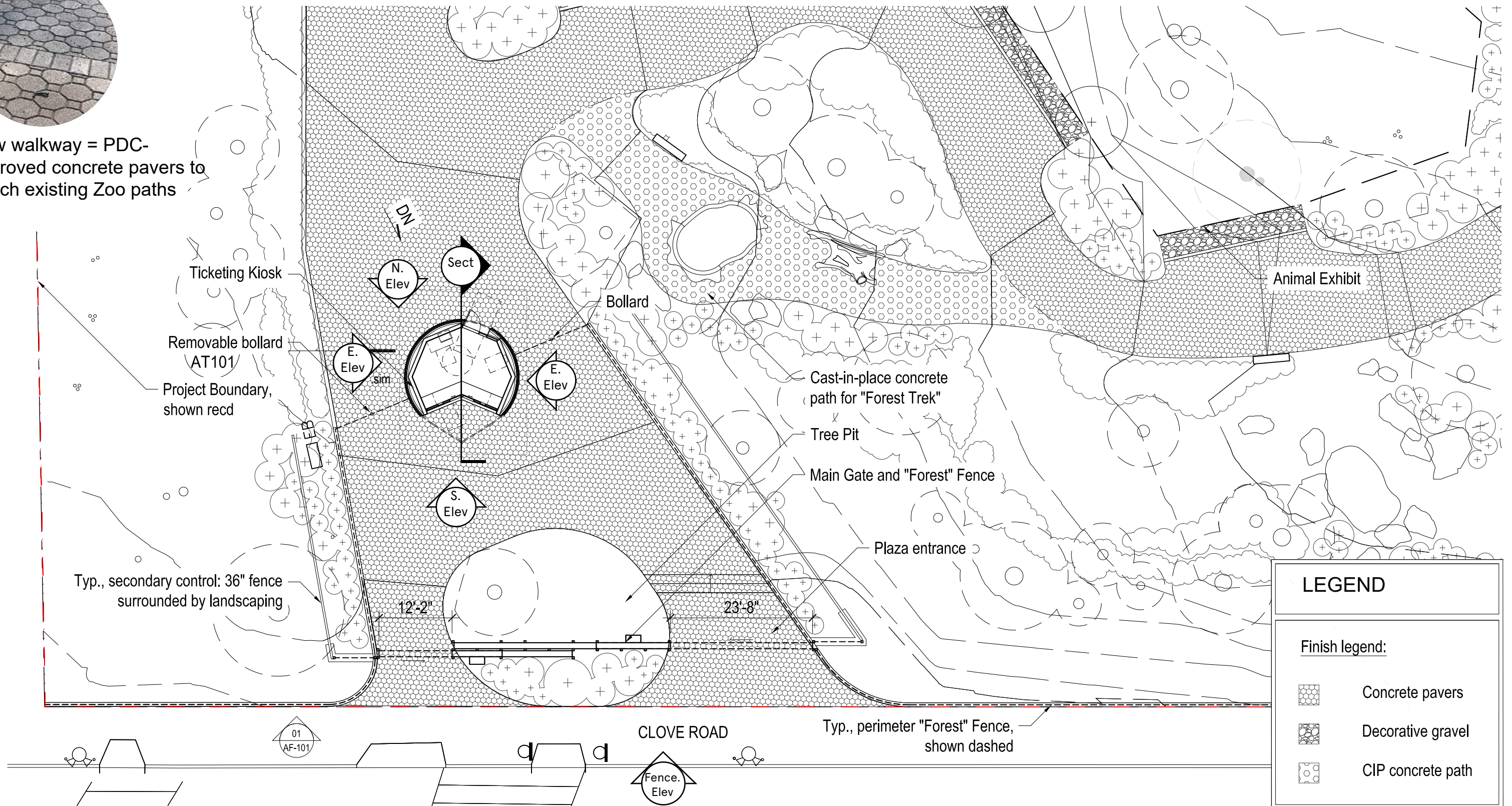
S. I. ZOO CLOVE ROAD RESTORATION
PDC CONCEPT PRESENTATION
November 13, 2023

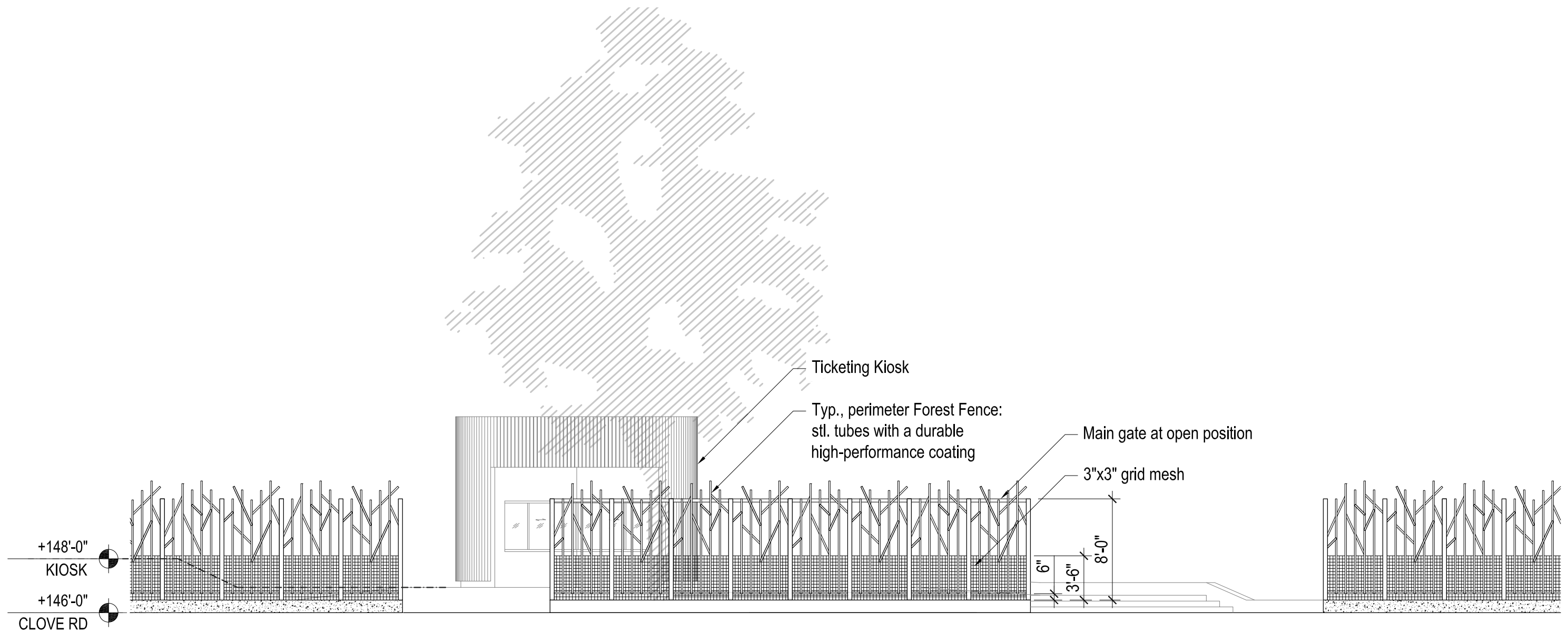
EXISTING SITE PLAN
32 FT

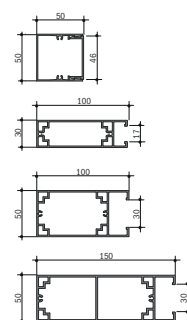
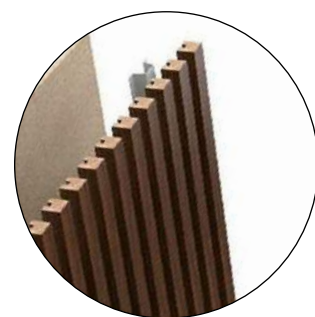




New walkway = PDC-approved concrete pavers to match existing Zoo paths



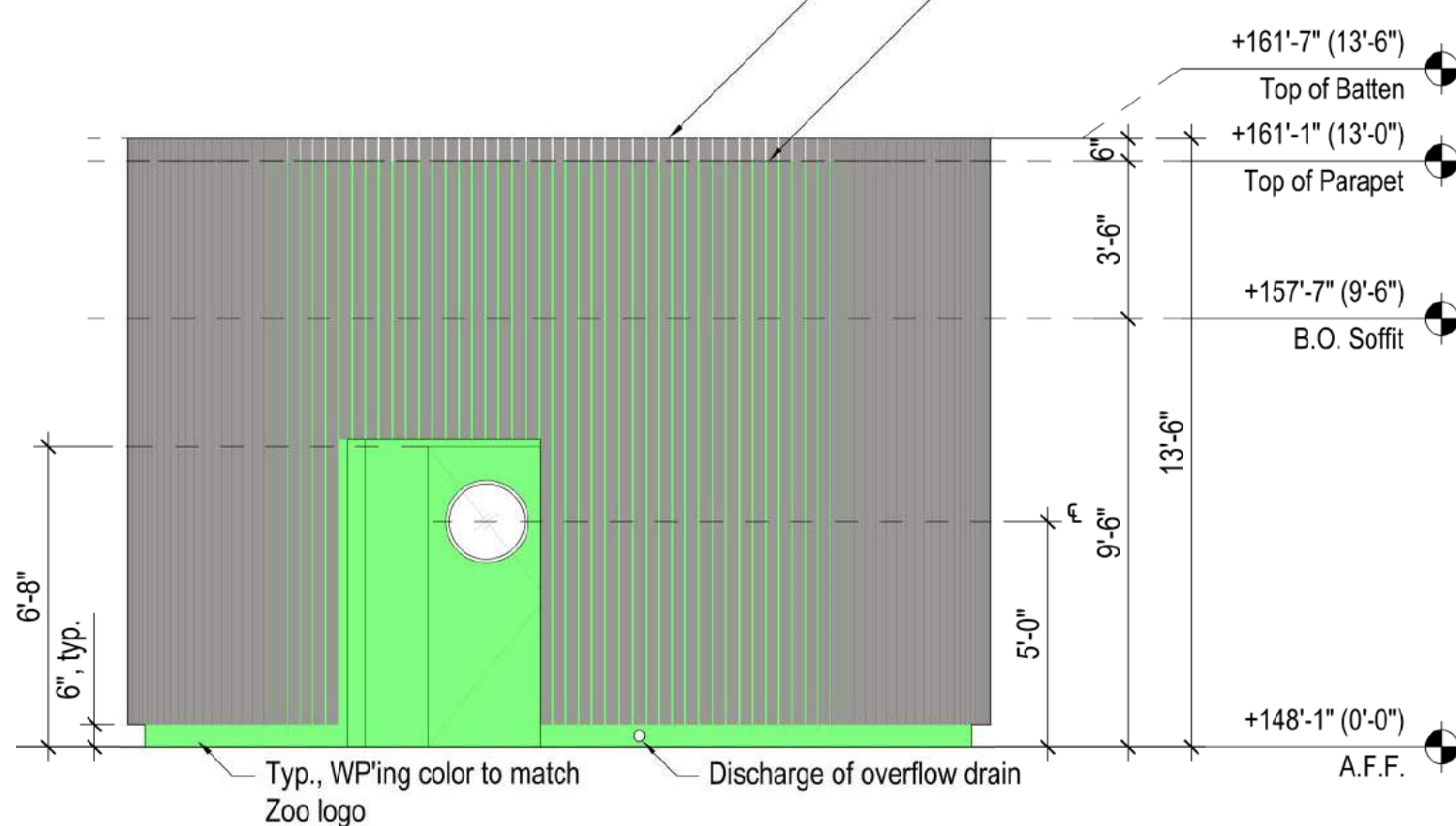




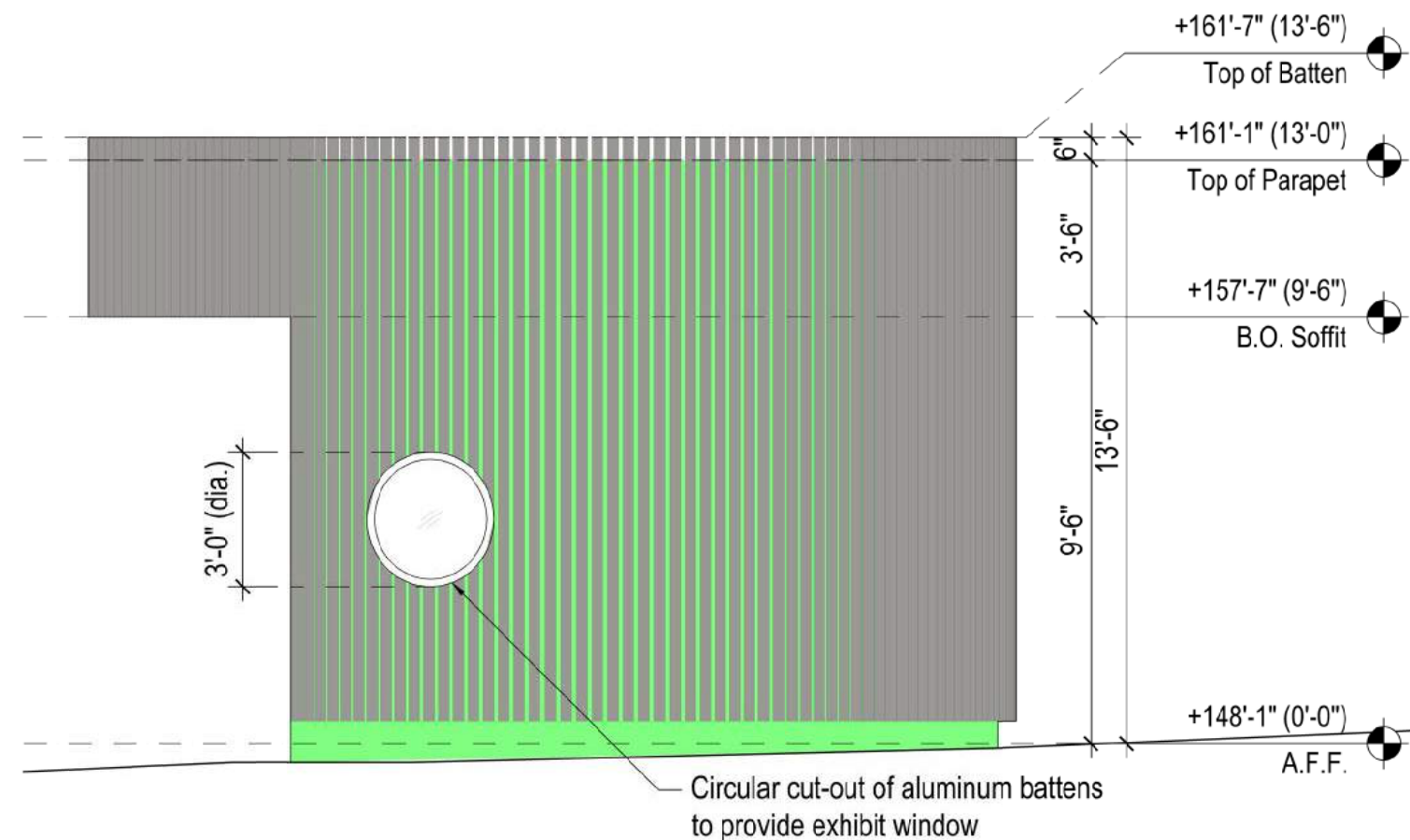
Facade cladding = aluminum batten with solid color

Typ., top of aluminum batten with solid color

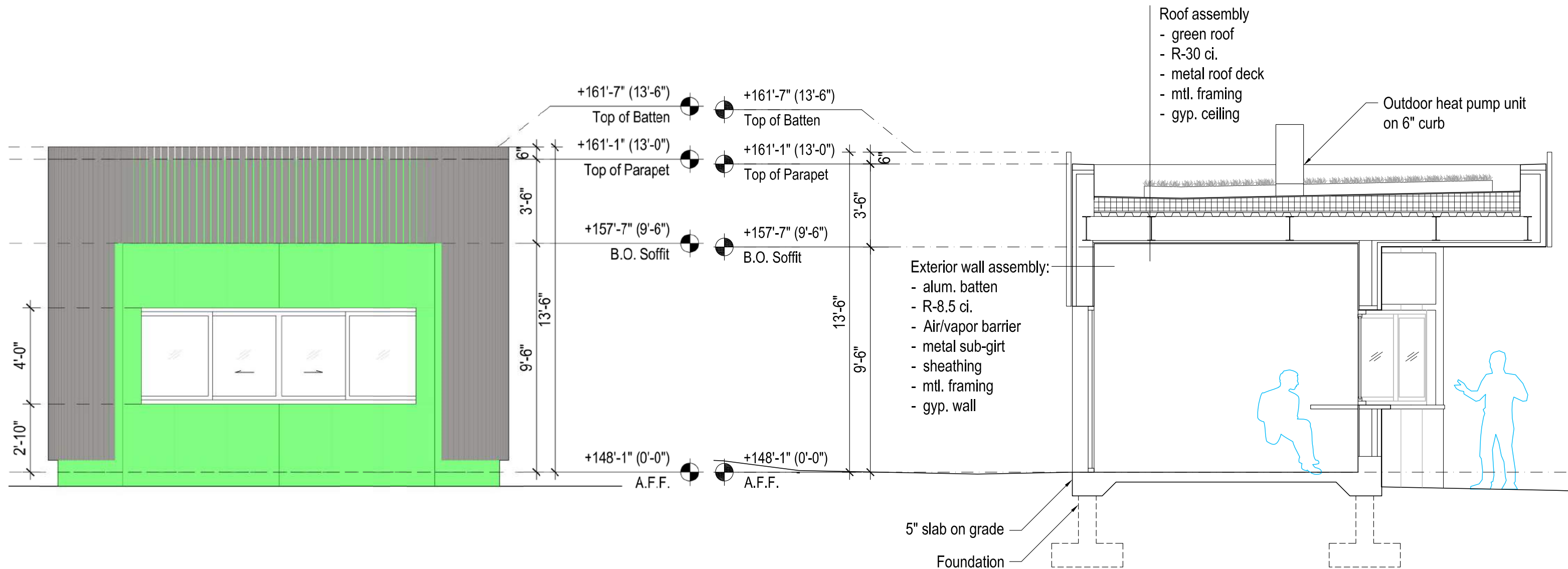
Typ., top of parapet behind battens, shown dashed



PROPOSED KIOSK NORTH ELEVATION



PROPOSED KIOSK EAST ELEVATION

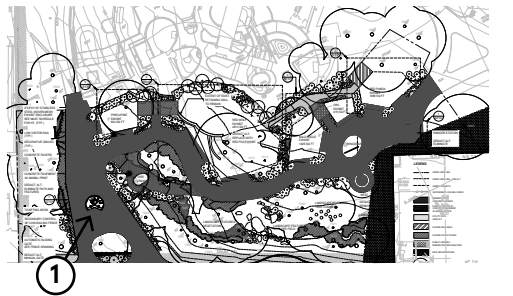


PROPOSED KIOSK SOUTH ELEVATION

PROPOSED KIOSK SECTION



- ① Ticketing Kiosk
- ② “Forest” Fence and Main Gate at open position
- ③ Secondary control: 36” high fence set back from landscaping



1 Entry Gate at Clove Road



- ① Ticketing Kiosk
- ② Porcupine Exhibit
- ③ Holding shelter of animals: shown here to demonstrate massing and location only. Please do not review facade/materials. To be further developed for PDC Preliminary Review



1 At ticketing kiosk, looking north



- ① Ranger Station
- ② Forest Trek exhibit: Eagles Nest
- ③ Forest Trek exhibit: Wing Span
- ④ Red Panda exhibit
- ⑤ Holding building of animals: shown here to demonstrate massing and location only. Please do not review facade/materials. To be further developed for PDC Preliminary Review

1 At Ranger station, looking west