



# **Alaska Department of Transportation & Public Facilities**

**REVILLA & GRAVINA AIRPORT FERRY TERMINAL  
IMPROVEMENTS**

**Projects # SFHWY00085 / SFHWY00109**

**Ketchikan Gateway Borough Assembly Meeting  
May 14th, 2018**



# Project Update - Overview & Schedule

## Revilla Uplands Project

- Overall site review – changes after Oct 16<sup>th</sup>, 2017 Borough Assembly meeting
- Vehicle & pedestrian flow – ticketing, staging, waiting,
- New passenger waiting facilities and support buildings

## Revilla / Gravina Marine Projects

- Construct two new ferry berths at Revilla and Gravina shuttle ferry terminals.
- Refurbish existing Revilla & Gravina ferry berths

## Schedule

- Fall, 2018: Complete design/advertise construction contracts.
- Fall, 2020: Complete construction.
- Sequencing of 4 construction phases







# Gravina Access Funded Projects

## GRAVINA PROJECTS - DETAILED SCHEDULE

Date: 5/4/2018

Project No.	Need ID	Project Description	Staff	Construction Cost	Const Ob Yr	Project Development					Construction			
						Prelim Dsgn Env Document	Final Design Obligation	PIH Review	PSE Review	Construction Obligation	Bid Advertise	Contract Award	Construction Start	Construction Finish
1 (SFHWY00085)	30830	Revilla Airport Ferry Terminal Upland Improvements Revilla Airport New Ferry Berth	Consultant	\$9,100,000 \$11,000,000	18	6/15/2018	6/29/2018	8/28/2018	9/27/2018	10/27/2018	12/26/2018	3/26/2019	6/24/2019	9/26/2020
2 (SFHWY00150)	30831	Revilla Refurbish Existing Ferry Berth	Lowell	\$4,000,000	19	6/15/2017	8/15/2017	8/10/2018	12/8/2018	4/7/2019	8/5/2019	11/3/2019	6/30/2020	1/26/2021
3 (SFHWY00151)	30832	Revilla New Passenger Waiting Facility	Consultant	\$3,500,000	19	6/15/2017	8/15/2017	8/28/2018	9/27/2018	10/27/2018	12/26/2018	3/26/2019	6/24/2019	9/26/2020
4 (SFHWY00152)	30833	Gravina Ferry Layup Facility	Consultant	\$19,000,000	19	6/15/2017	8/15/2017	8/15/2018	12/13/2018	2/11/2019	5/12/2019	8/10/2019	3/7/2020	10/3/2020
5 (SFHWY00153)	30834	Gravina Refurbish Existing Ferry Berth Facility (not re-aligned)	Lowell	\$6,000,000	19	6/15/2017	8/15/2017	8/10/2018	12/8/2018	4/7/2019	8/5/2019	11/3/2019	6/30/2020	1/26/2021
6 (SFHWY00154)	30835	Gravina Freight Facility	Lowell	\$4,000,000	19	6/15/2017	8/15/2017	8/15/2018	12/13/2018	2/11/2019	5/12/2019	8/10/2019	3/7/2020	1/1/2021
7 (Z682260000)	30836	Replace Airport Creek Bridge (costs do not reflect \$650K in USFS funds)	Pyeatt	\$1,400,000	18	6/15/2017	6/16/2017	8/11/2017	8/11/2017	5/1/2018	6/30/2018	9/28/2018	2/1/2019	8/20/2019
8 (SFHWY00156)	30949	KTN - Reconstruct Road to Airport Boundary	Lockwood/Lester	\$3,400,000	18	6/15/2017	8/15/2017	6/15/2018	7/15/2018	8/14/2018	10/13/2018	1/11/2019	3/12/2019	11/7/2019
9	30887	New Passenger Buses	TBD	\$300,000	19	6/15/2017	7/1/2018	1/17/2019	3/18/2019	5/2/2019	7/1/2019	9/29/2019	11/28/2019	5/26/2020
10 (SFHWY00109)	30829	Gravina New Ferry Berth	Consultant	\$11,700,000	18	6/15/2018	6/29/2018	8/28/2018	9/27/2018	10/27/2018	12/26/2018	3/26/2019	7/4/2019	1/20/2020
11 (SFHWY00184)	31029	Ketchikan Airport Ferry Capacity Modifications	Consultant	\$1,000,000	19	4/27/2018	5/15/2018	1/10/2019	5/10/2019	6/24/2019	8/23/2019	11/21/2019	1/20/2020	7/18/2020
12	31030	Ketchikan Road & Bridge Projects	Staff/Consultant	\$9,500,000	19	1/15/2019	2/14/2019	6/14/2019	8/13/2019	9/12/2019	11/11/2019	2/9/2020	4/9/2020	7/3/2021
13	31031	Ketchikan Construct Black Sands Beach Trail	Staff/Consultant	\$500,000	19	1/15/2019	2/14/2019	6/14/2019	8/13/2019	9/12/2019	11/11/2019	2/9/2020	4/9/2020	7/3/2021

### Target Obligation Dates

FY17 Oct 15, 2016 - 8/15/2017  
FY18 Oct 15, 2017 - 8/15/2018  
FY19 Oct 15, 2018 - 8/15/2019

### General Project Goals

1. New ferry berths (10) functional before existing ferry berth refurbishment (2 and 5).
2. Advertise Bridge (7) and Road (8) projects early FY18.
3. New passenger waiting building (3) should be included with Project 1 for bid advertisement. Multiple construction projects (phases) could also result within Project 1.
4. New layup berth (4) and freight dock (6) should be advertised as one project and can be largely independent of other marine work.
5. Passenger buses (9) can be done most anytime.
6. Scope for projects 11-13 largely undefined. Need recon engineering effort.

Yellow highlight Projects are Non-SEIS

Green highlight is completed milestone

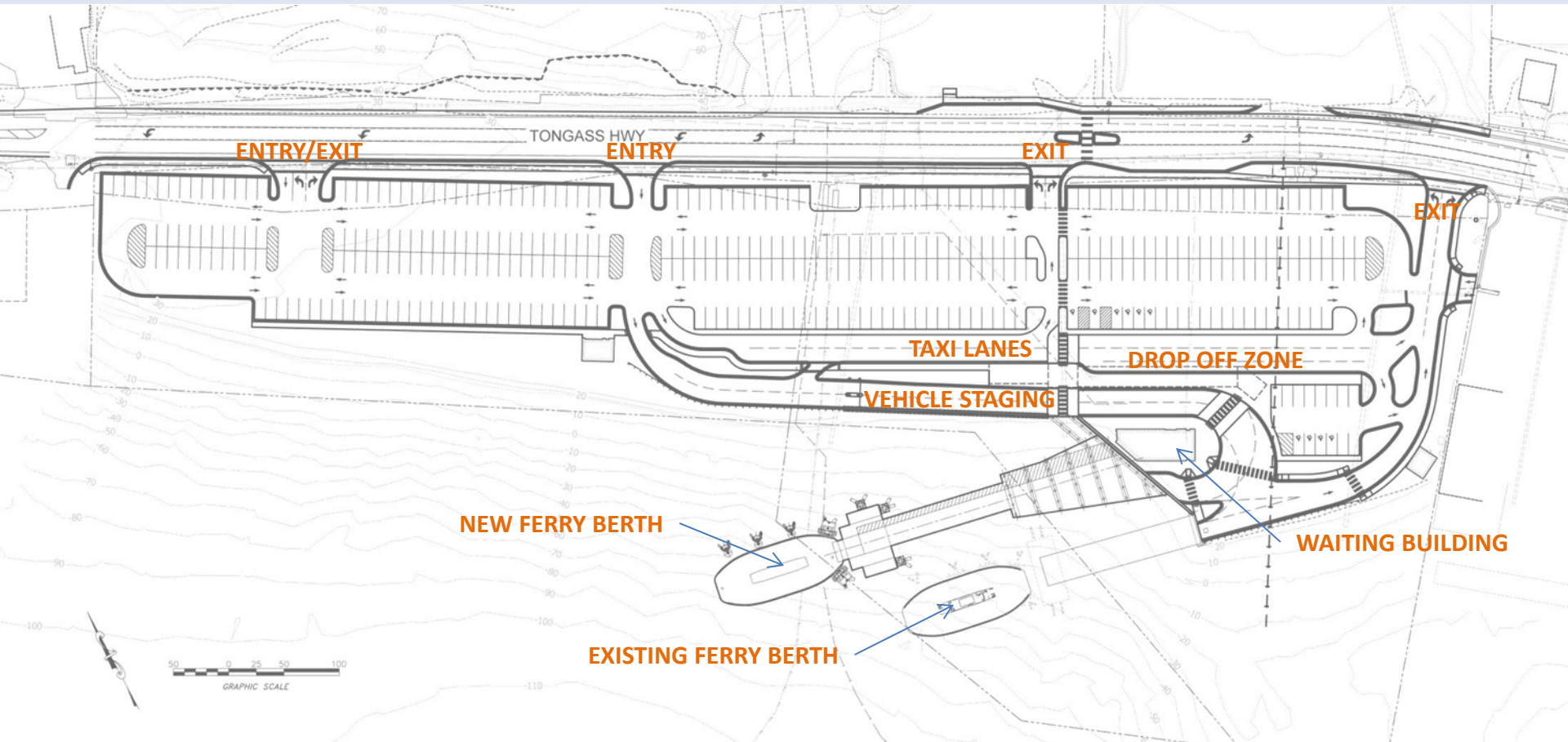
Red highlight - Adjusted from previous. Check against STIP

Blue highlight - Project may be deleted



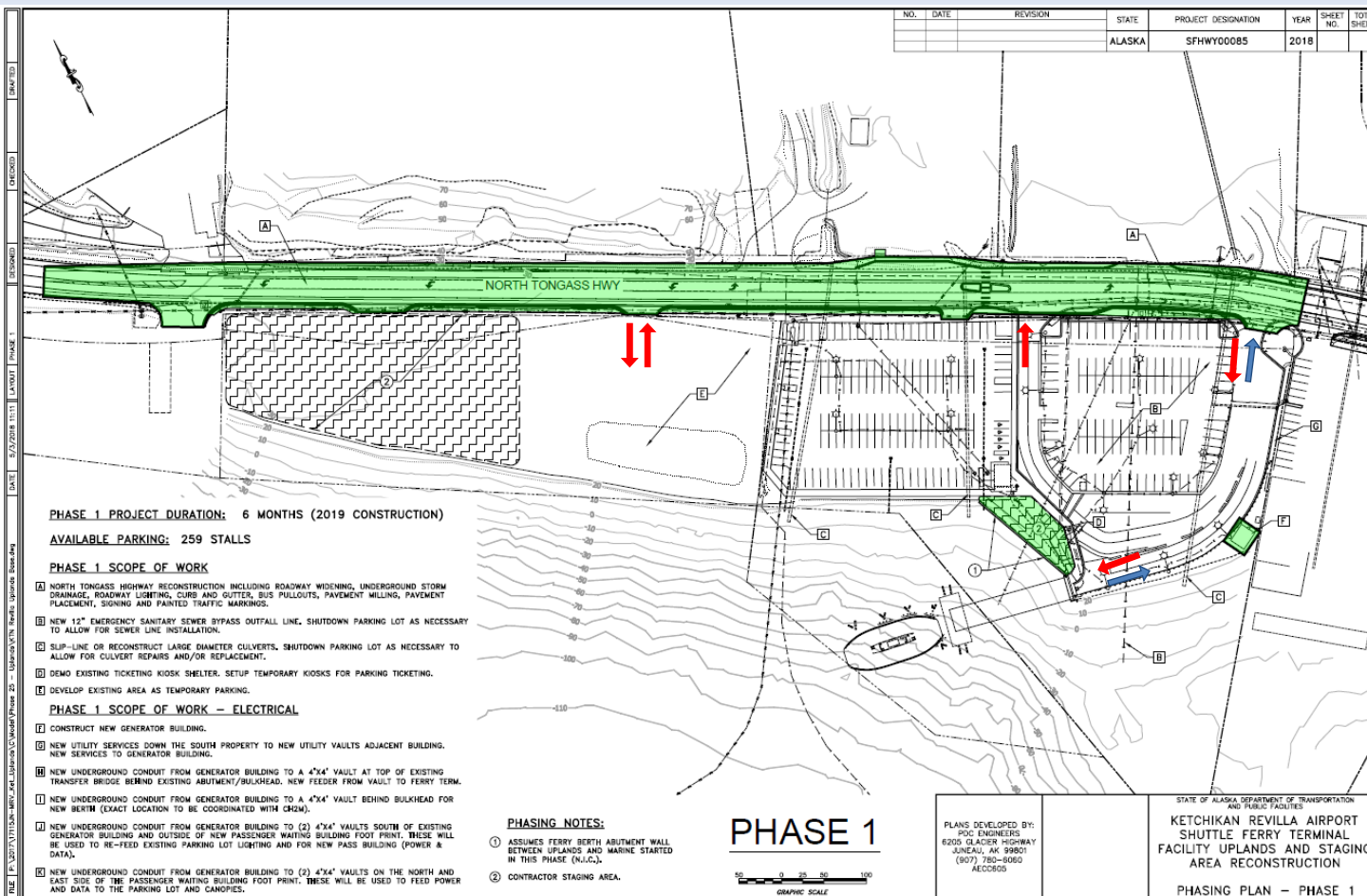


# Project Overview – Revilla Uplands





# Phase 1 Construction



**Duration - 6 Months**

**Key Elements:**

North Tongass Highway  
Improvements

Relocate Emergency Sanitary  
Sewer Bypass Outfall

Repair or Reconstruct Large  
Drainage Culverts

Back-up Generator Building

New Ferry Berth Bulkhead

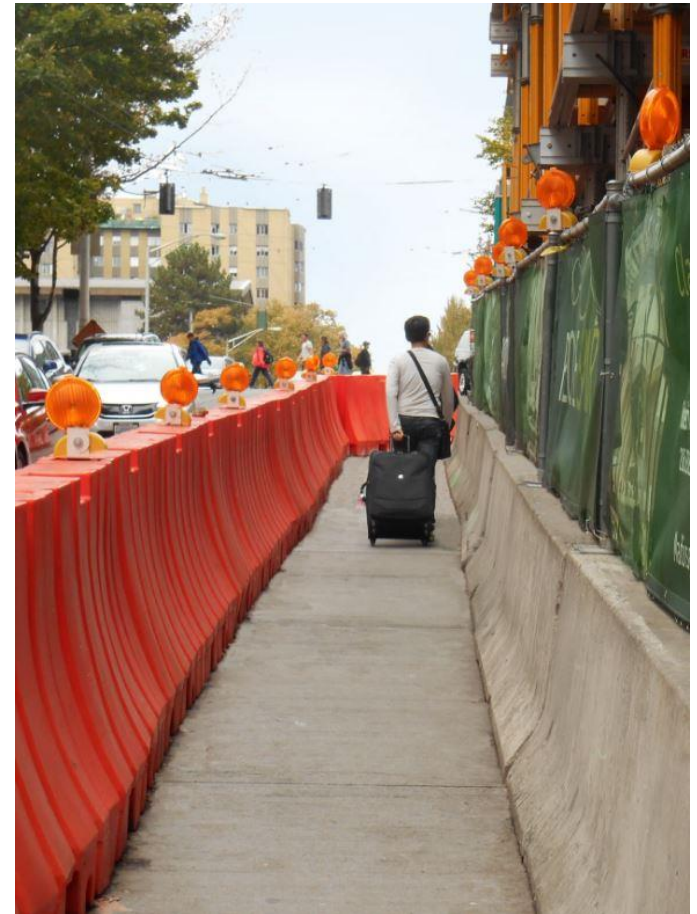
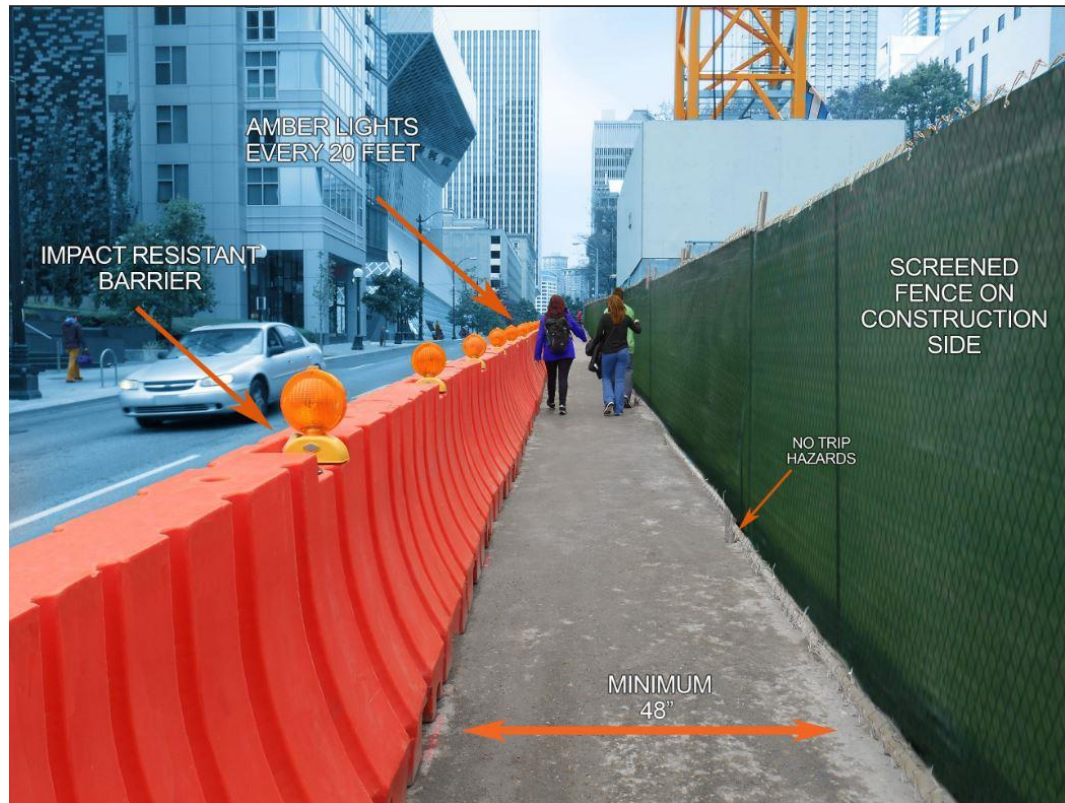
Temporary Parking

Relocate Existing Ticketing  
Kiosks



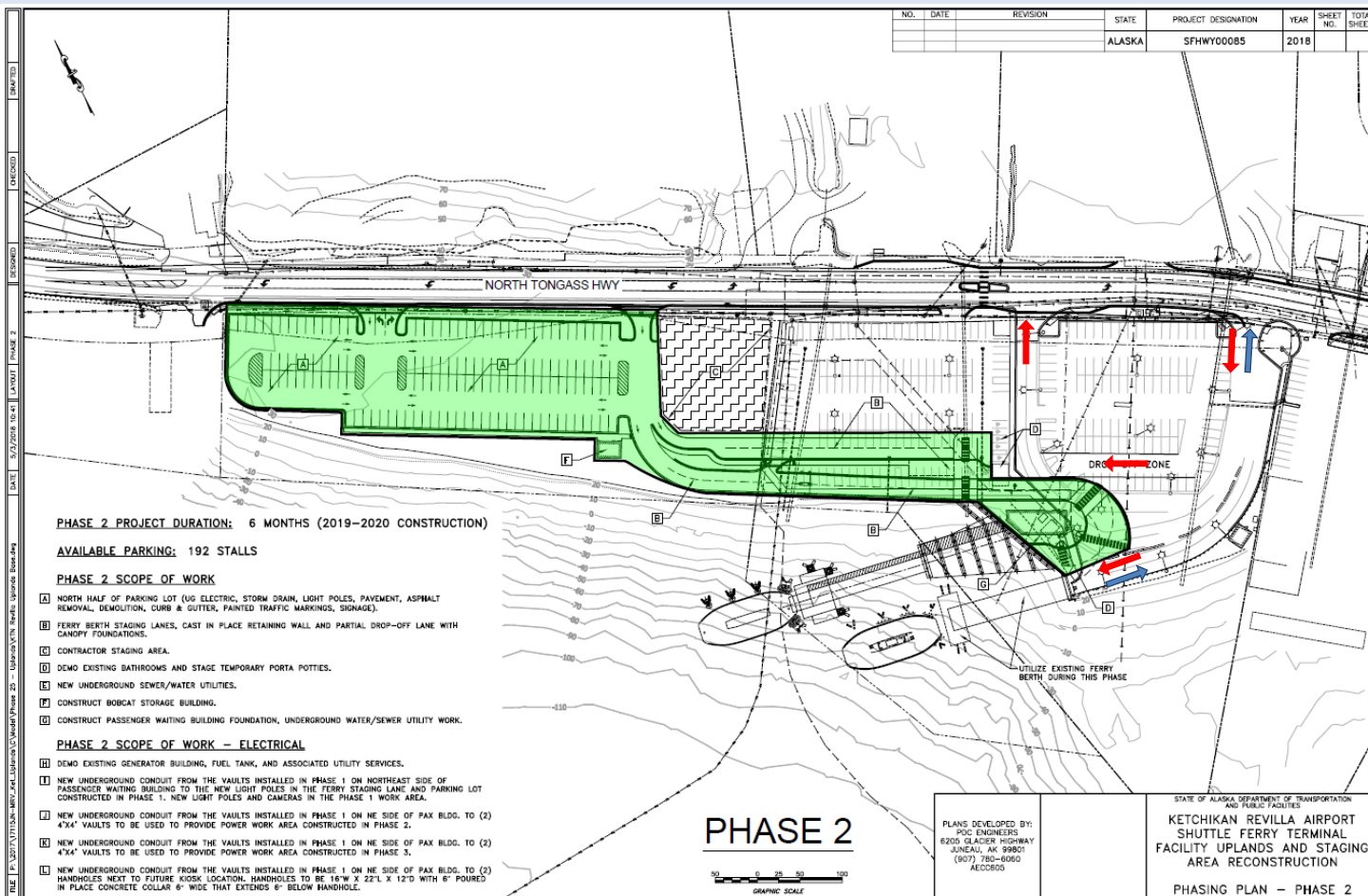


# Pedestrian Detours During Construction





# Phase 2 Construction



**Duration – 6 Months**

**Key Elements:**

North Parking Lot

Staging Lanes, North Half of Loading Zone Canopy & Retaining Wall

Passenger Waiting Building Foundation & Underground Utilities

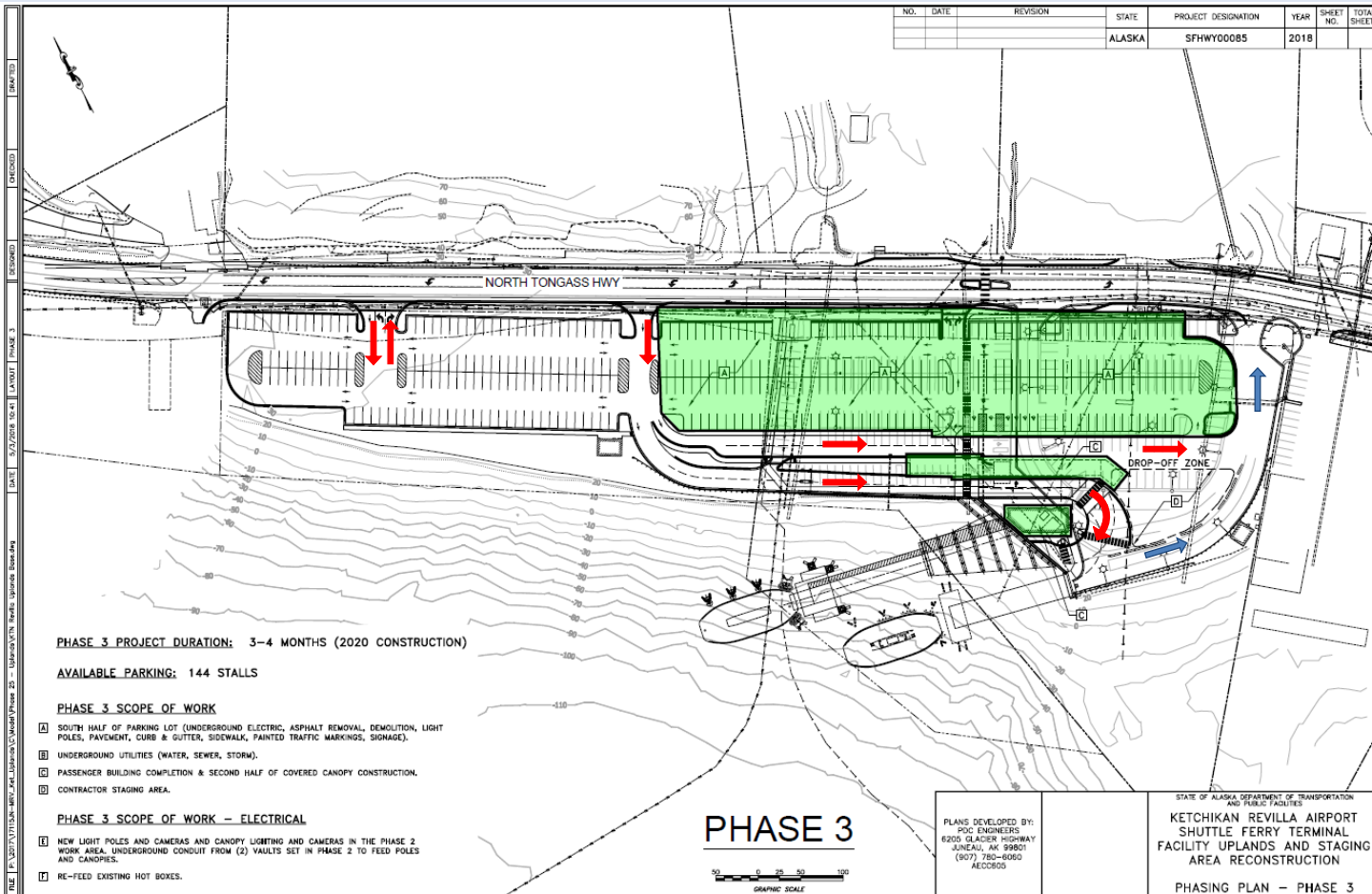
Equipment Storage Building

Demo Existing Restrooms & Setup Temp Porta Potties





# Phase 3 Construction



**Duration – 3-4 Months**

**Key Elements:**

South Parking Lot

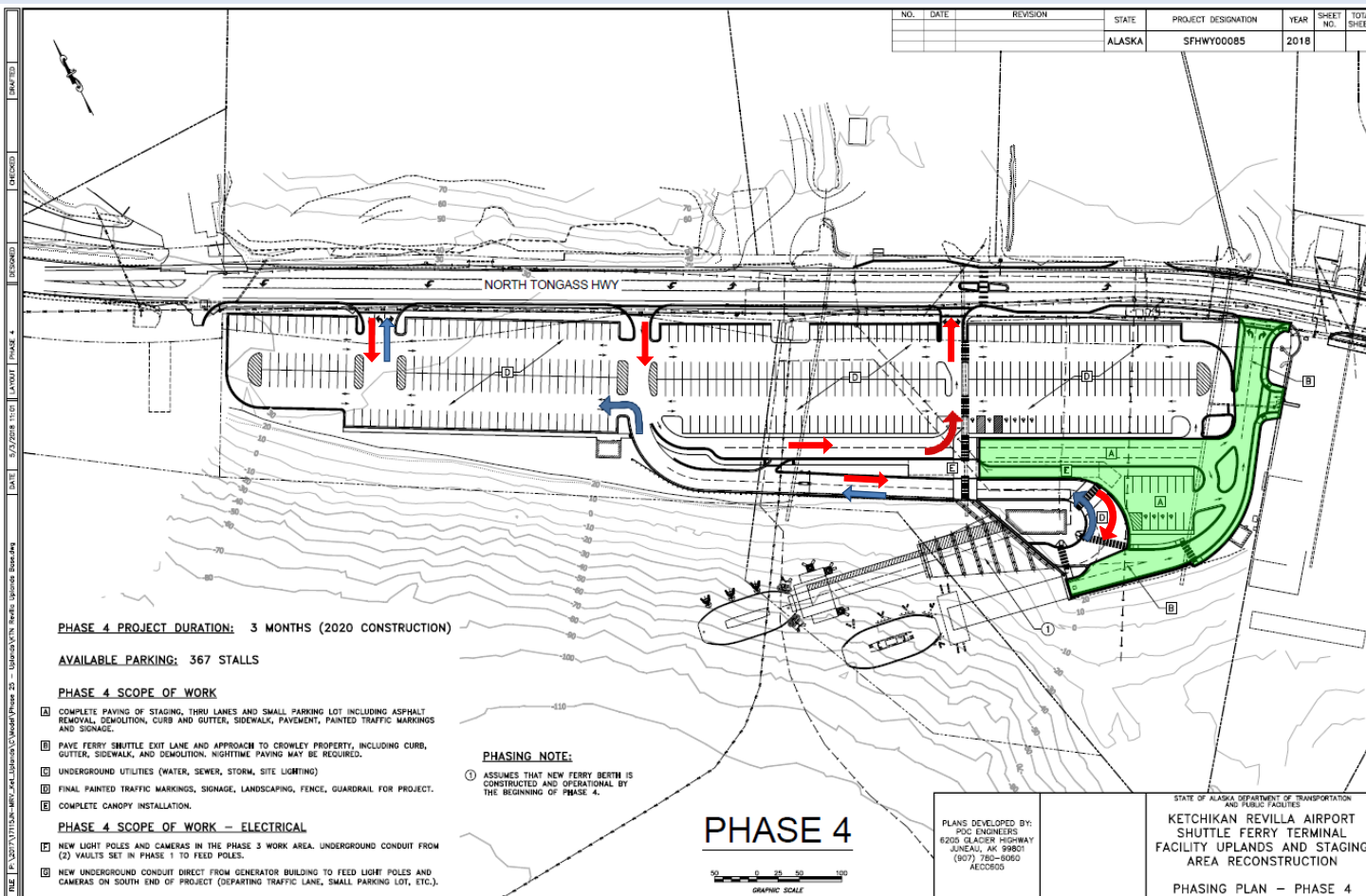
Loading Zone Canopies

Complete Passenger Waiting Building

Site Lighting



# Phase 4 Construction



**Duration – 3 Months**

**Key Elements:**

Complete Loading Zone & Ferry Exit Lanes

Complete Loading Zone Canopies

Site Lighting & Cameras





# Wayfinding & Signage



PEDESTRIAN SIGNAGE PLACED NEXT TO KIOSK AND UNDER CANOPIES AS WINDBREAK FEATURES



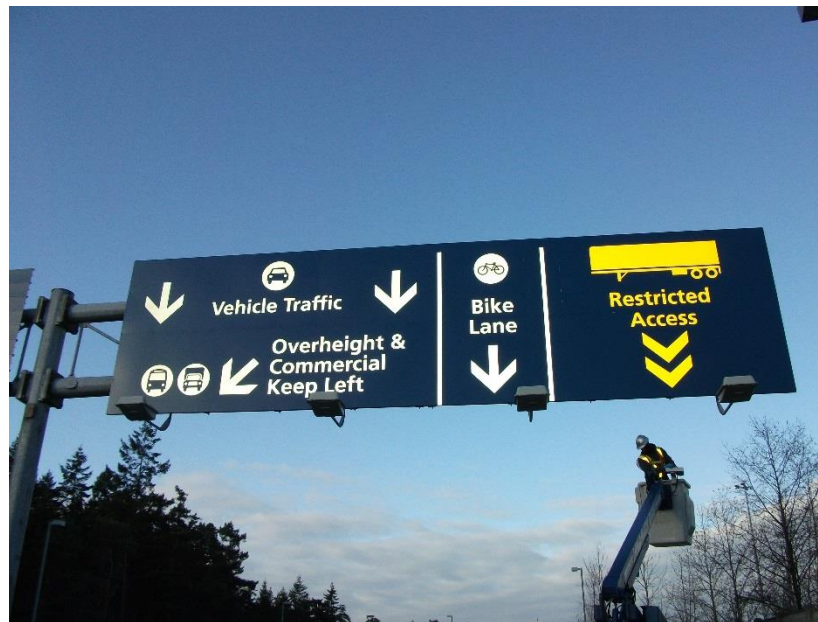
HIGHLY VISABLE VEHICULAR SIGNAGE



MONUMENT STYLE WELCOME SIGN "WELCOME TO KETCHIKAN"



# Wayfinding & Signage



FERRY LANES & LOADING ZONES



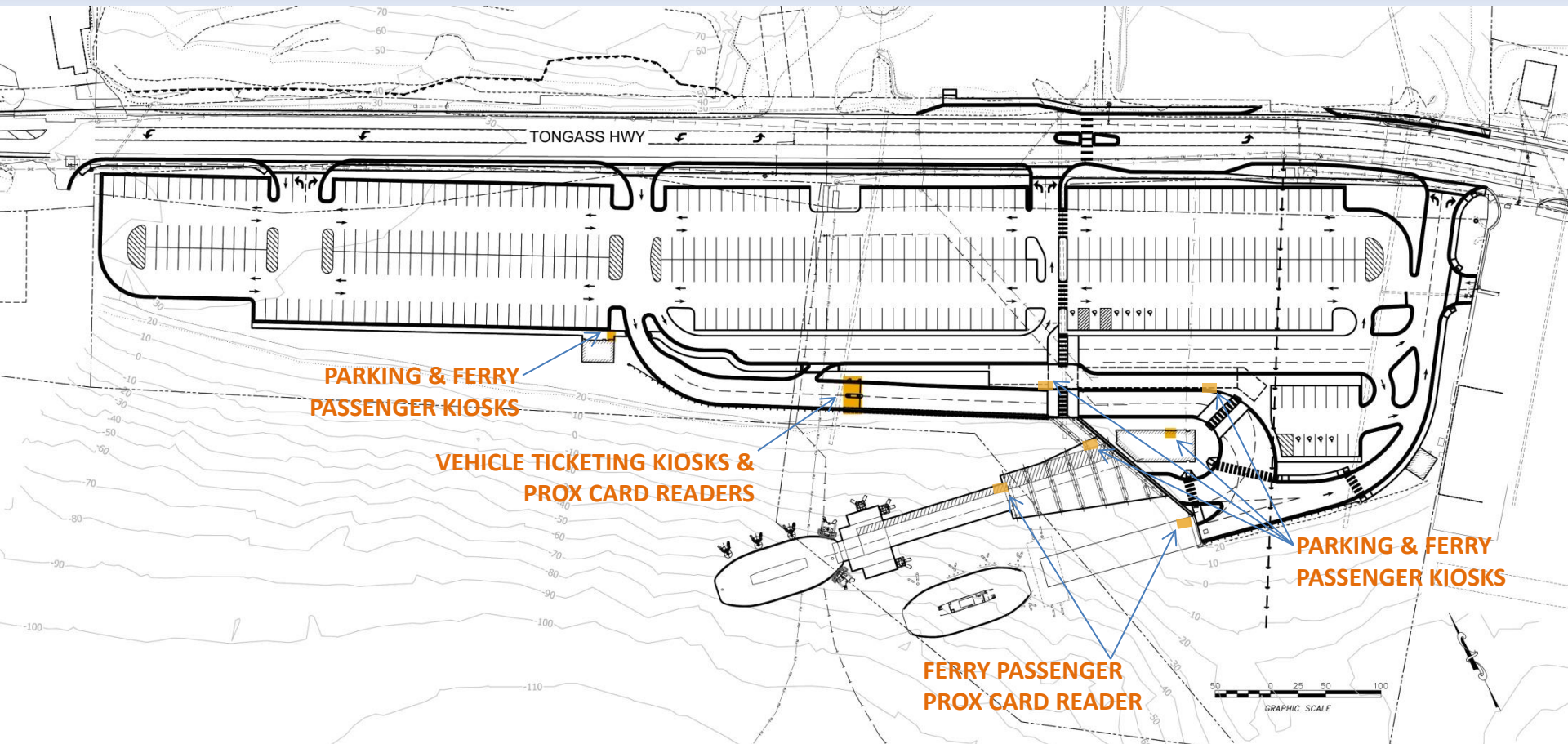


# Automated Ticketing

1. No ticket needed to travel from Gravina to Revilla.
2. Ticket fee from Revilla to Gravina will cover cost of round trip.
3. Passenger Ferry Tickets may be purchased at credit card kiosks in parking lot.
4. Also at credit card/cash kiosks inside Passenger Waiting Building.
5. Passenger & Vehicle Ferry Tickets may be purchased at credit card kiosks in the ferry vehicle cueing line.
6. Monthly passes for frequent passengers will still be available.
7. Proximity Cards will be issued for companies/individuals who wish to establish pre-paid accounts.
8. The proximity cards will allow quick access into the vehicle cueing lanes via a reader co-located with the ticketing kiosks at the entrance into the lanes. Self reporting will be used to track the number of passengers in the vehicles.
9. Passengers with proximity cards will swipe them on a reader at the top of the bridge.
10. Passengers/vehicles will be randomly checked on the ferry.



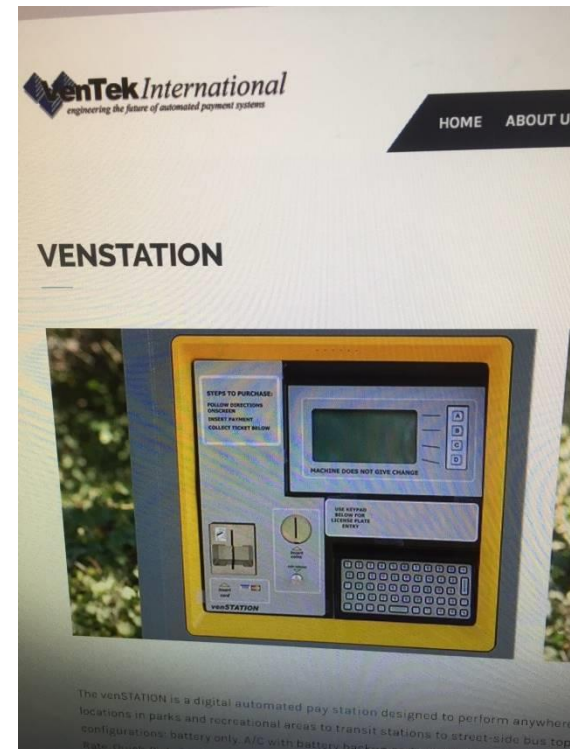
# Automated Ticketing Concept







# Kiosk Systems



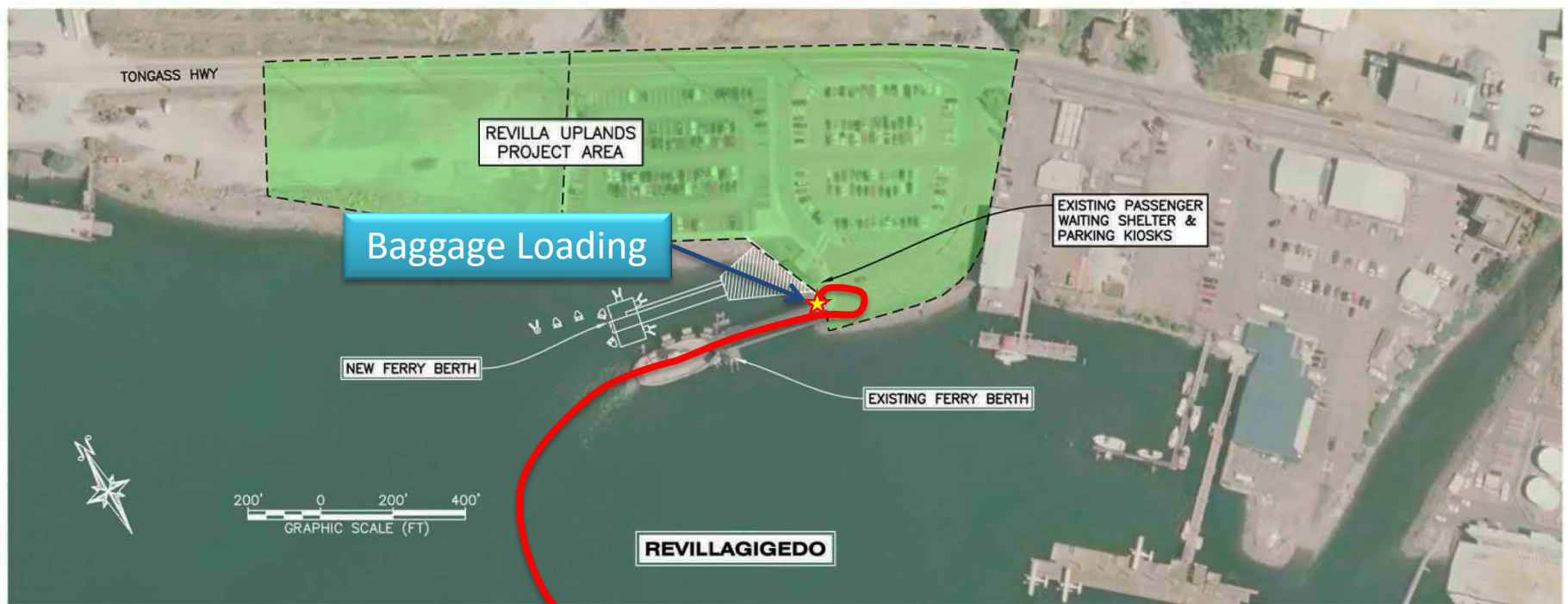
Ventek kiosk system (Do not duplicate images)



# Baggage Cart System







# Baggage Cart Circulation



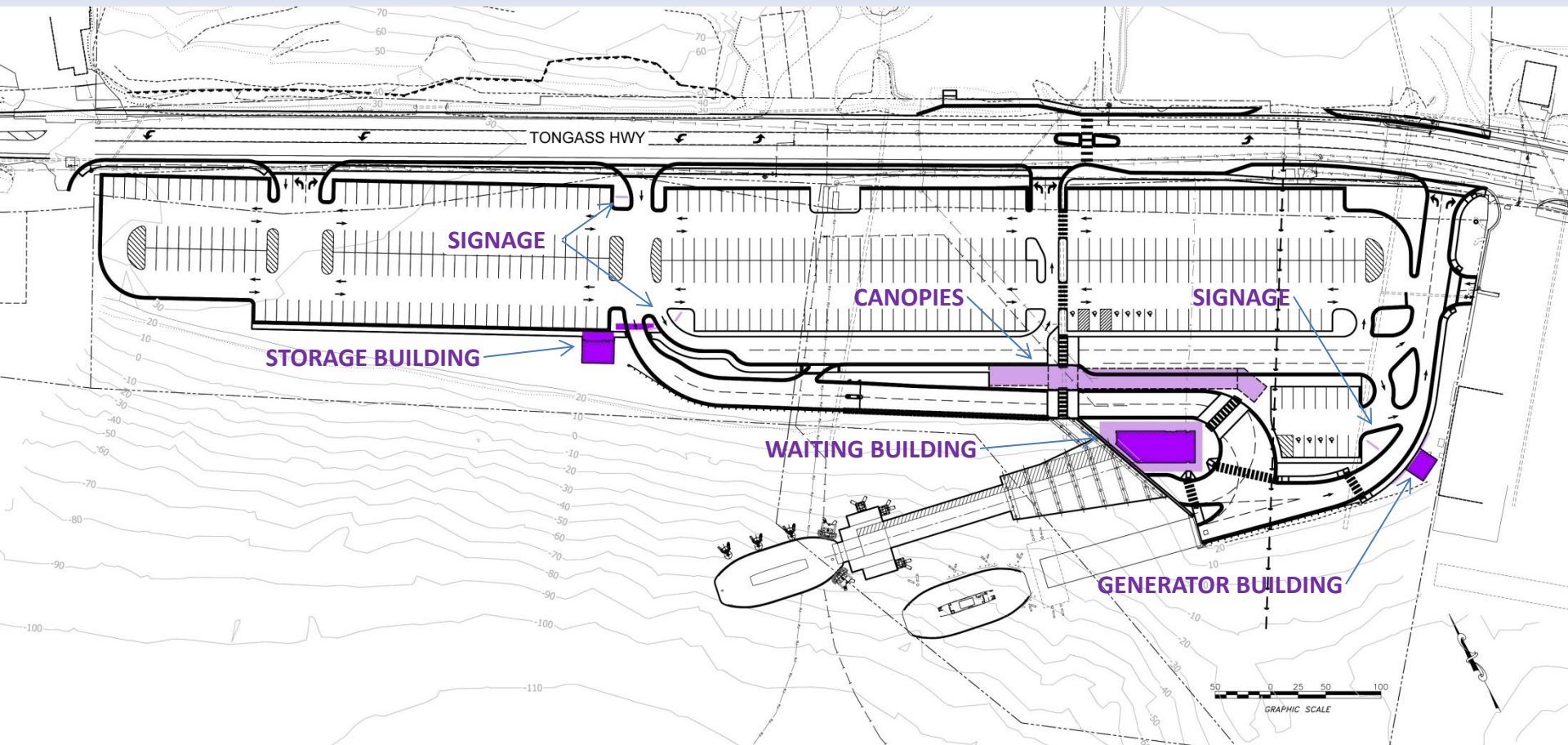
# Support Structures

1. **Waiting Building** – Provides interior conditioned waiting space and restrooms. Ticket kiosk located in entry vestibule. Provides luggage staging and support vehicle lane
2. **Storage Building** – Houses Bobcat snowplow and one tug vehicle. Other site maintenance items located in building. One ticket kiosk with wayfinding sign located on exterior of building.
3. **Generator Building** – Houses emergency back up generator



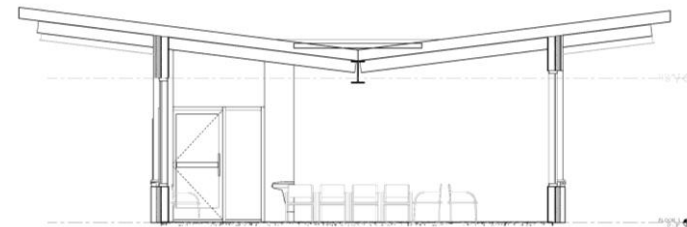
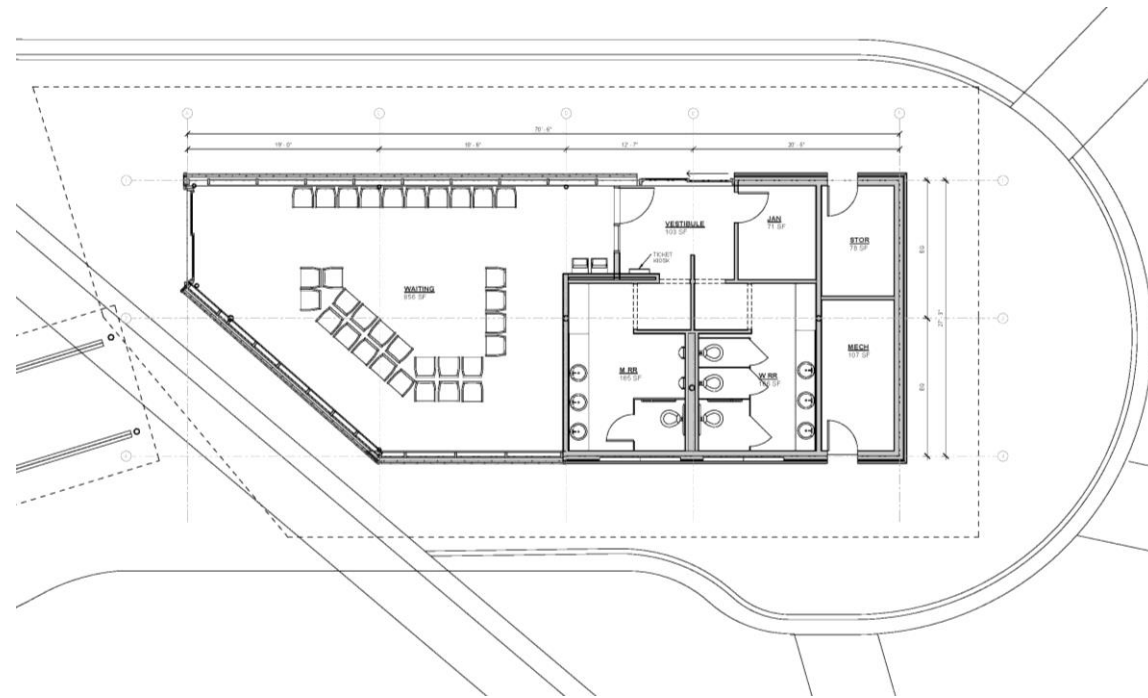


# Buildings & Site Elements

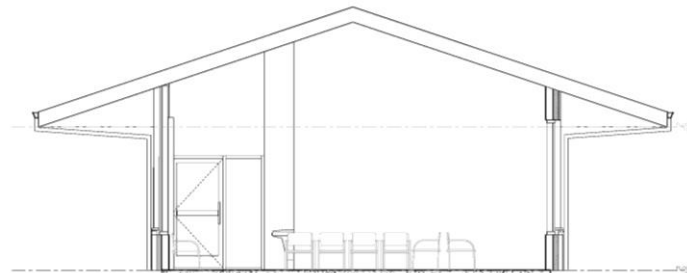




# Waiting Building Roof Options



**OPTION A**  
INVERTED ROOF – 14'-0" ROOFLINE  
NO EXPOSED DOWNSPOUTS

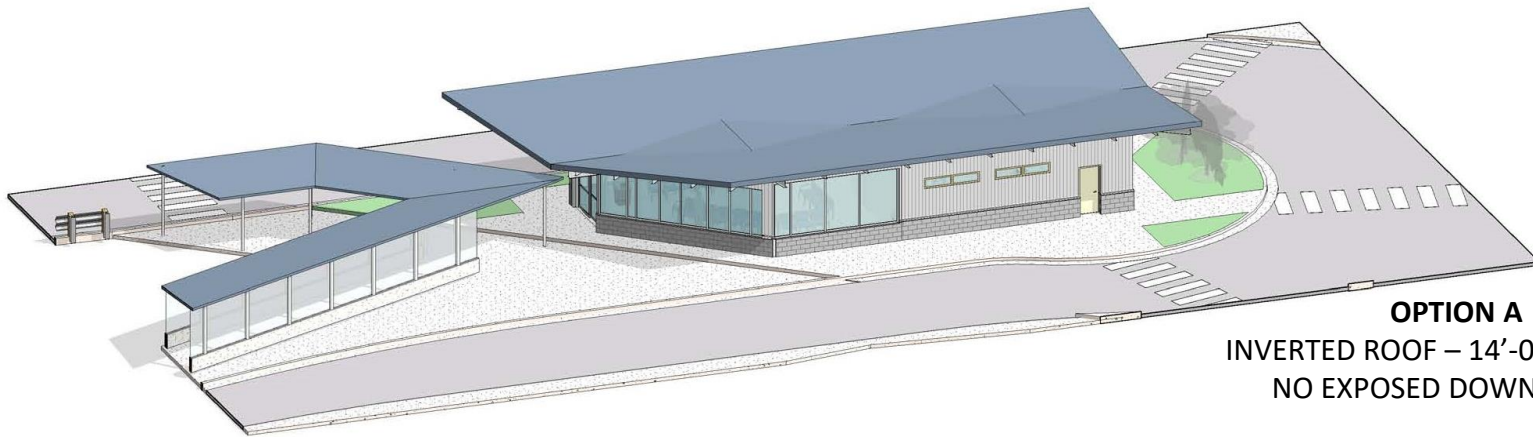


**OPTION B**  
GABLE ROOF – 11'-0" ROOFLINE

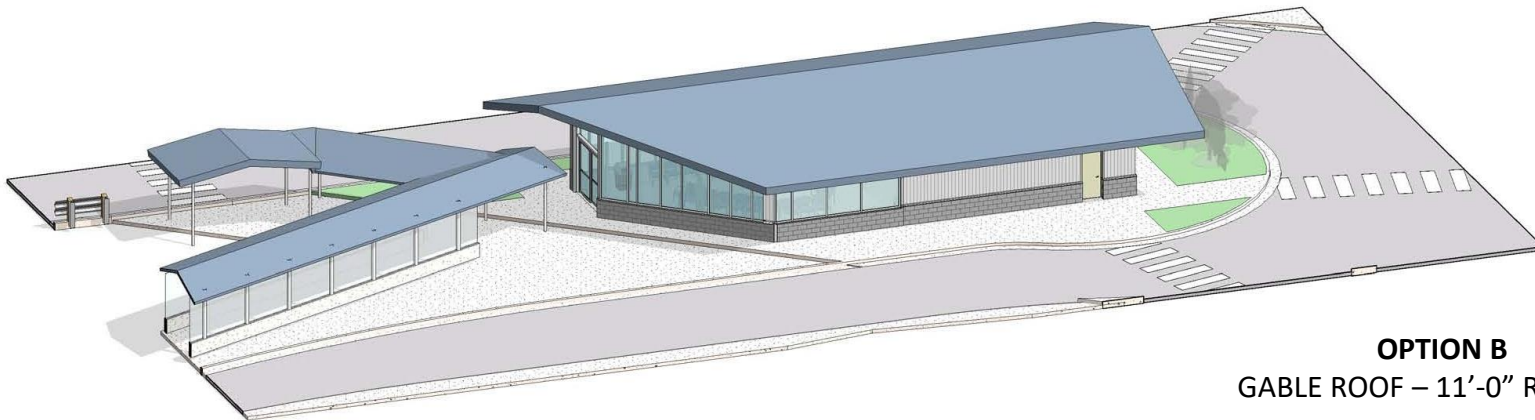




# Waiting Building Roof Options



**OPTION A**  
INVERTED ROOF – 14'-0" ROOFLINE  
NO EXPOSED DOWNSPOUTS



**OPTION B**  
GABLE ROOF – 11'-0" ROOFLINE



Inverted roof at 14' to prevent truck vehicle-structure collisions.







# Option A Renderings

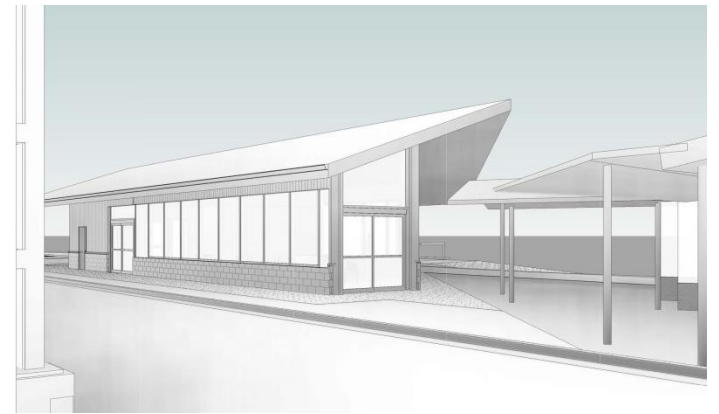
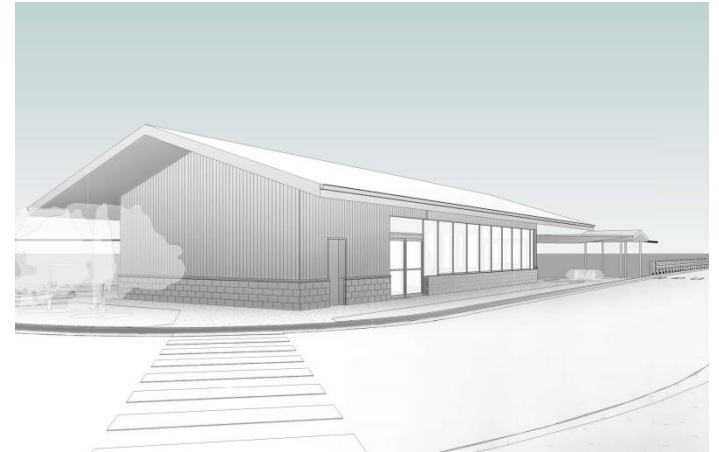
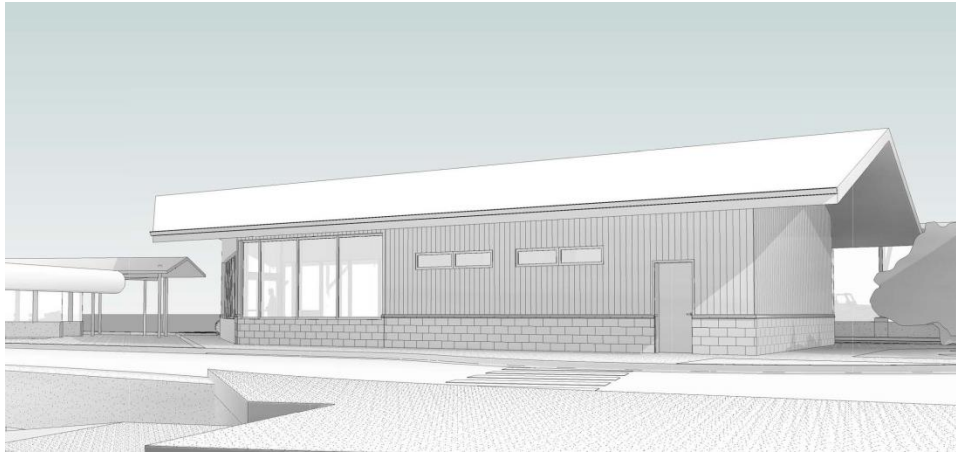


WAITING BUILDING RENDERINGS – INVERTED ROOF OPTION





## Option B Renderings



WAITING BUILDING RENDERINGS – GABLE ROOF OPTION



## View From Exit Lanes (Opt A)





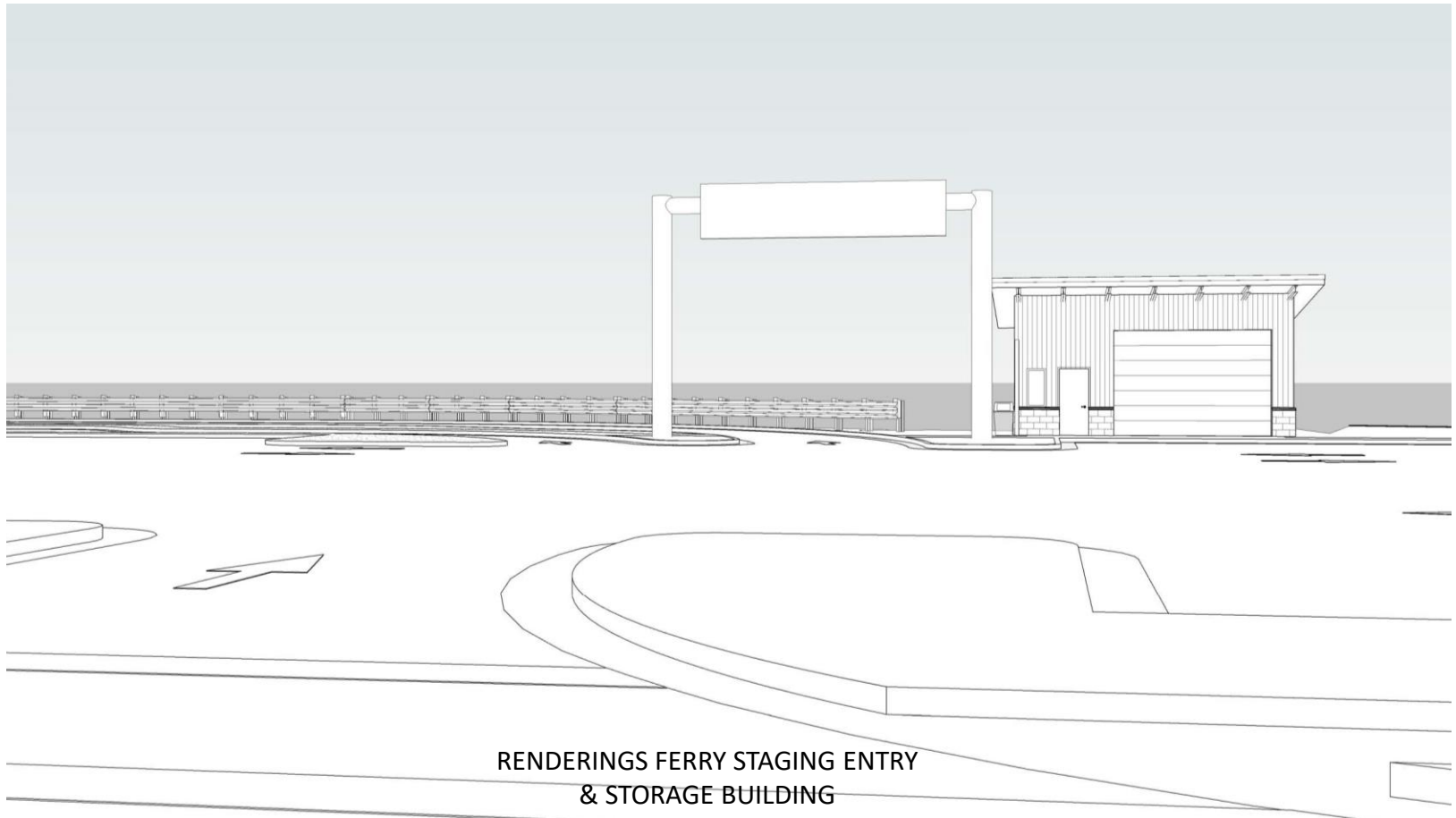


# Canopy Renderings (Opt A)



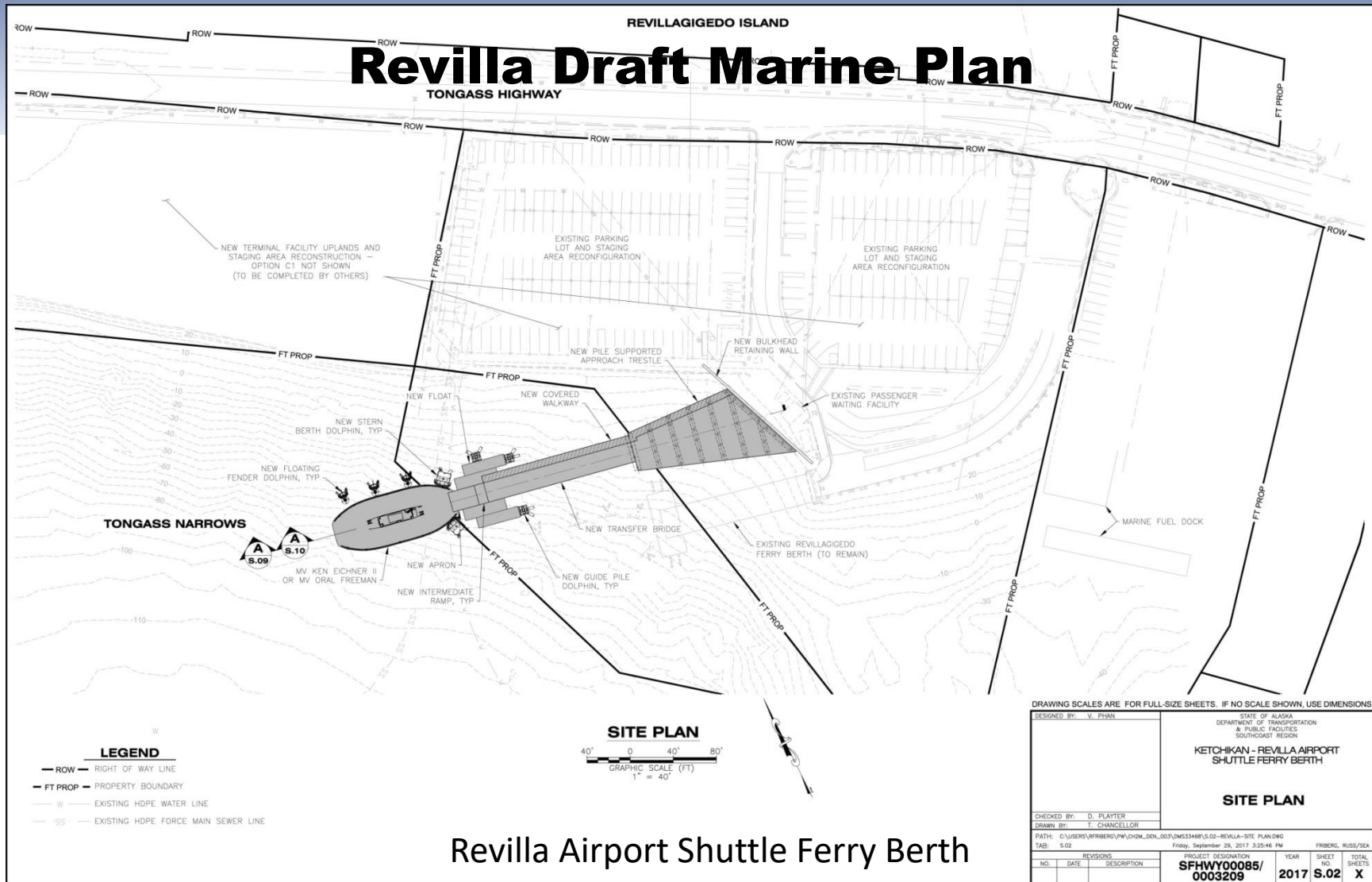


# Staging Lanes & Storage Building

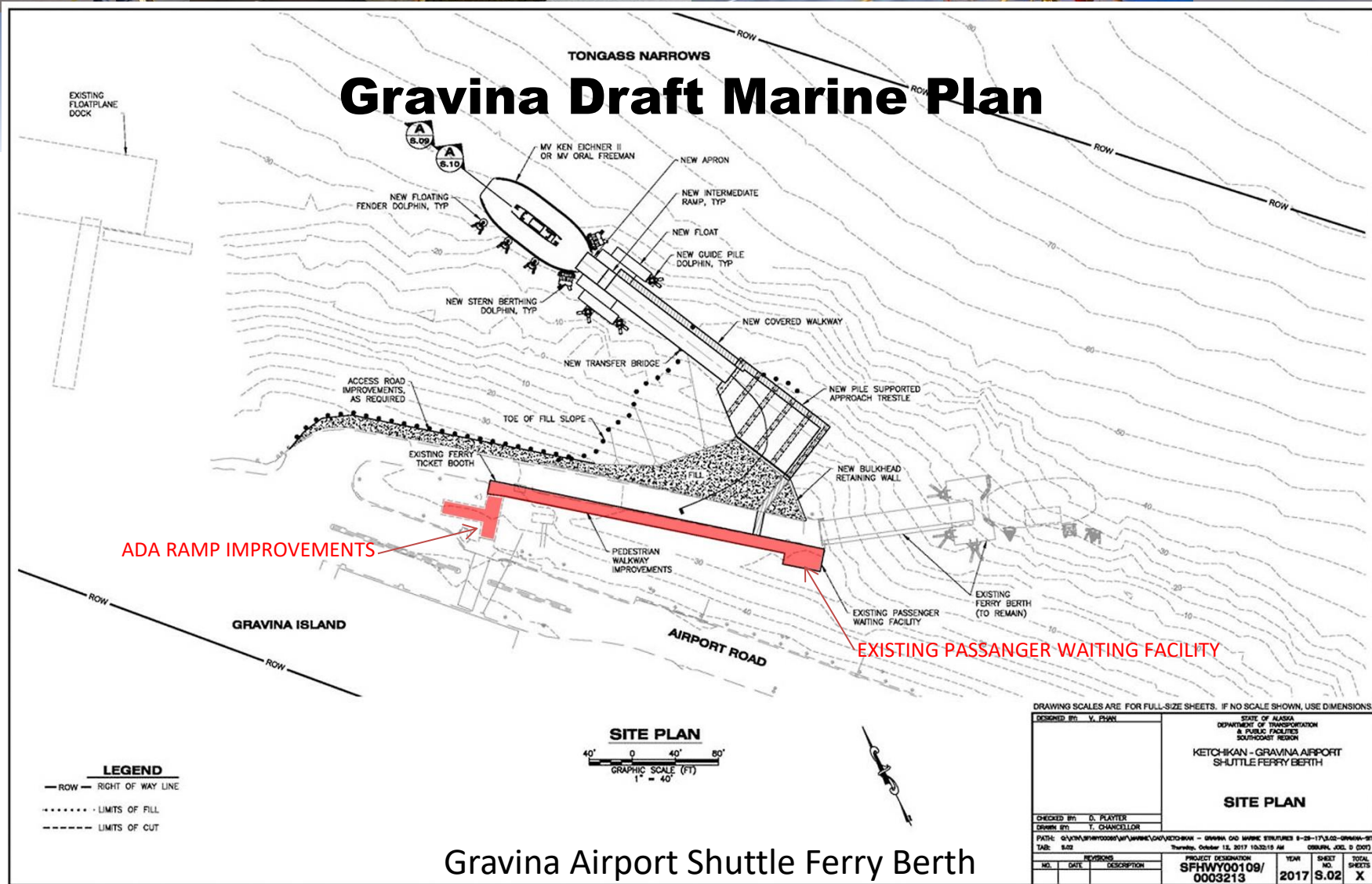


RENDERINGS FERRY STAGING ENTRY  
& STORAGE BUILDING





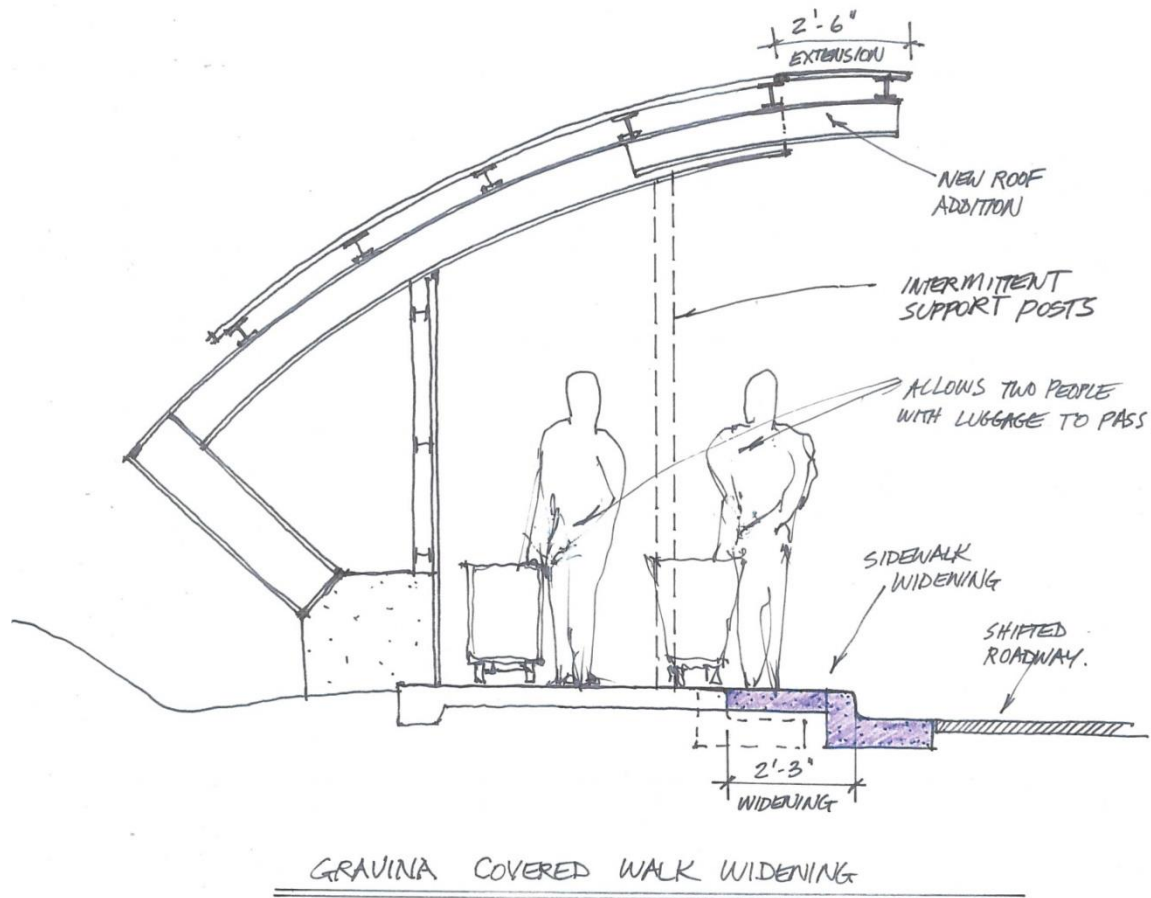
Revilla Airport Shuttle Ferry Berth





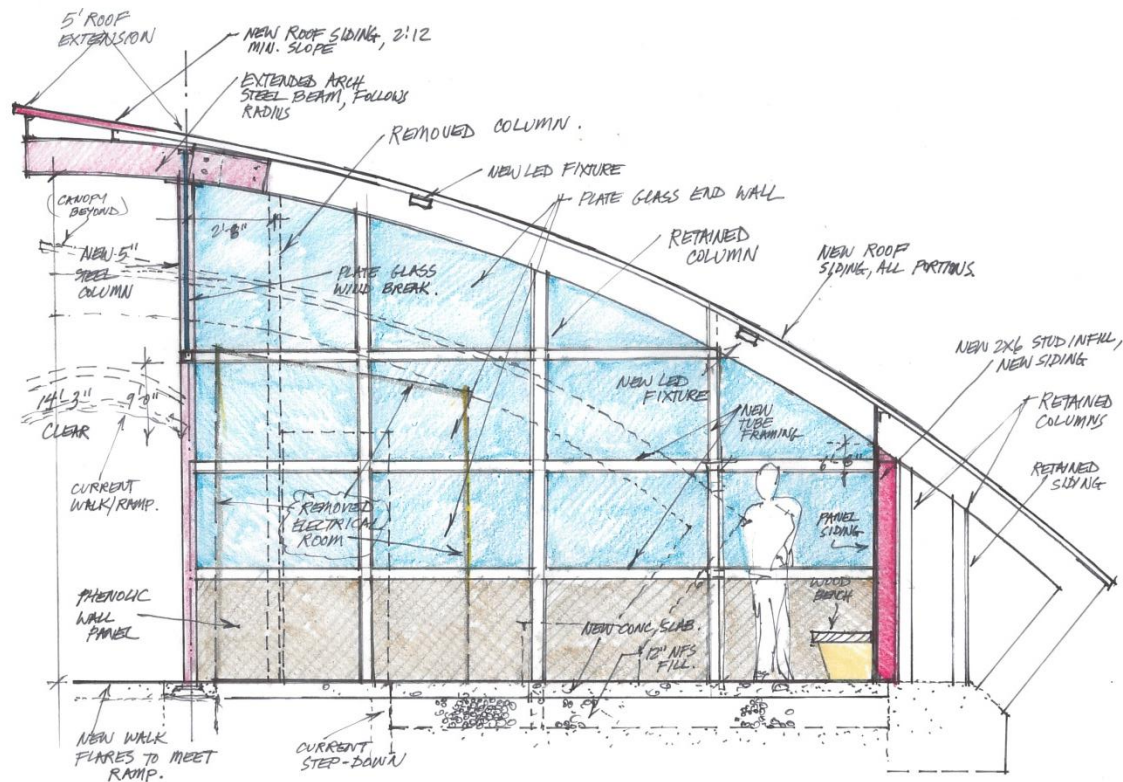


# Gravina Walkway Improvements





# Gravina Walkway Improvements



CROSS SECTION - GRAVINA WAITING AREA

$\frac{3}{8}'' = 1'-0''$

PV 2-16-18







# Project Website

## All Southcoast Projects:

<http://dot.alaska.gov/sereg/projects/index.shtml>

## Revilla Uplands Project:

[http://dot.alaska.gov/sereg/projects/ktn\\_revilla\\_upland\\_berth/index.shtml](http://dot.alaska.gov/sereg/projects/ktn_revilla_upland_berth/index.shtml)