

PROJECT NAME	HILO WWTP REHABILITATION & REPLACEMENT PROJECT PHASE 1	
PROJECT NUMBER	WW-4705R	
SUBMITTAL #	001.1	
SPECIFICATION SECTION	01500	
<b>SHOP DRAWING REVIEW</b>		
<b>ENGINEER'S REVIEW</b>		<b>CONTRACTOR'S ACTION</b>
<input checked="" type="checkbox"/> No Exceptions		Confirm
Make Corrections Noted		Resubmit
Rejected		
Comments Attached		
<p>Engineer's review is for general conformance with the design concept and the contract requirements. Markings or comments shall not be construed as relieving the Contractor from compliance with the project plans, specifications nor departure therefrom. The Contractor remains responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing his work in a safe manner.</p>		
<b>R.M. TOWILL CORPORATION</b>	Date	5/13/25
	By	 Michael S. Hong – Construction Manager

- No Comments

**NOTE: THIS IS AN URGENT  
SUBMITTAL PLEASE SEND TO  
OWNER FOR REVIEW**

## CONTRACTOR SUBMITTAL TRANSMITTAL FORM

<b>Owner:</b>	County of Hawaii	<b>Date:</b>	5/7/2025
<b>Contractor:</b>	Nan, Inc.	<b>Project No.:</b>	WW-4705R
<b>Project Name:</b>	Hilo WWTP Phase 1	<b>Submittal Number:</b>	01500-001.1
<b>Submittal Title:</b>	Resubmittal -TEMPORARY FACILITIES & CONTROLS FIELD OFFICE		
<b>To:</b>	Engineer		
<b>From:</b>	Nan, Inc		

<b>Specification No. and Subject of Submittal / Equipment Supplier</b>			
<b>Spec #:</b>	01500	<b>Subject:</b>	Resubmittal -TEMPORARY FACILITIES & CONTROLS FIELD OFFICE
<b>Authored By:</b>	M. Chun	<b>Date Submitted:</b>	5/7/2025

<b>Submittal Certification</b>		
<b>Check Either (A) or (B):</b>		
<input checked="" type="checkbox"/>	(A)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings with no exceptions.
<input type="checkbox"/>	(B)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings except for the deviations listed.
<p><b>Certification Statement:</b> By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data, and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.</p>		
<b>General Contractor's Reviewer's Signature:</b> <i>Makoa Ng</i>		
<b>Printed Name and Title:</b> Makoa Ng, QC Representative <b>Matthew Chun, QC</b>		
In the event, Contractor believes the Submittal response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.		
<b>Firm:</b>	<b>Signature:</b>	<b>Date Returned:</b>

<b>PM/CM Office Use</b>		
Date Received GC to PM/CM: Date Received PM/CM to Reviewer: Date Received Reviewer to PM/CM: Date Sent PM/CM to GC:		

Nan, Inc

PROJECT: HILO WWTP REHABILITATION  
AND REPLACEMENT PROJECT - PHASE 1

JOB NO. WW-4705R

THIS SUBMITTAL HAS BEEN CHECKED BY  
THIS CONTRACTOR. IT IS CERTIFIED  
CORRECT, COMPLETE, AND IN  
COMPLIANCE WITH CONTRACT  
DRAWINGS AND SPECIFICATIONS. ALL  
AFFECTED CONTRACTORS AND  
SUPPLIERS ARE AWARE OF, AND WILL  
INTEGRATE THIS SUBMITTAL (UPON  
APPROVAL) INTO THEIR OWN WORK.

DATE RECEIVED 5/7/2025

SPECIFICATION SECTION # 01500

SPECIFICATION TEMPORARY FACILITIES & CONTROLS FIELD OFFICE

PARAGRAPH 1.12

DRAWING N/A

SUBCONTRACTOR N/A

SUPPLIER N/A

MANUFACTURER N/A

CERTIFIED BY: M. Chun, QC

## Correction and Response in Purple

- Provide additional information regarding if the Owner's and Engineer's/Construction Manager's Field Officers meets the following specifications:
    - Specification Section 01550 paragraph 1.12.4.b
      - "Exterior materials: Skirting for underpinning of field offices."
    - Specification Section 01550 paragraph 1.12.5
      - "Provide wood stairs and handrails at each entry."
        - a. Porch landing at each entry shall be 5 feet by 5 feet.
        - b. Provide an ADA-compliant handicapped ramp for at least 1 exterior stairway of each office. A single ramp, as long as ADA-compliant, may serve more than 1 field office."
    - Specification Section 01550 paragraph 1.12.7
      - b. Owner's Field Office:
        - 1) All windows shall have insect screens, locks, and blinds.
        - 2) Entrance doors shall have cylinder locks and 4 keys.
      - c. Engineer's Field Office 1:
        - 1) All windows shall have insect screens, locks, and blinds.
        - 2) Entrance doors shall have cylinder locks and 8 keys.
      - d. Engineer's Field Office 2:
        - 1) All windows shall have insect screens, locks, and blinds.
        - 2) Entrance doors shall have cylinder locks and at least 8 keys each.
    - Specification Section 01550 paragraph 1.12.8
      - "Exterior lights with motion sensors over each entrance door."
    - Specification Section 01550 paragraph 1.12.9
      - "Appropriate number and type of fire extinguishers for each field office."
  - Owners Trailer appears to have two HVAC Wall Mount Indoor Unit inside conference room as shown in sheet A3.01. Please check if this is a mistake.
  - Location of kitchen sink not provided in Owners Field Office and Engineer's Field Office 2
    - Incorporated: see dwgs A3.01, A2.01 respectively
  - Specification Section 01550 paragraph 1.12.B lists a number of items required for the field offices. Provide submittal information for the following items:
    - Office Desks
    - Office Chairs
    - Metal Filing Cabinets
    - Bookcases
    - Supply Cabinet
    - Refrigerator
    - Microwave Oven
    - K-Cup Coffee Maker
    - OLED Smart TV's
- Response: This submittal to be reviewed by owner. Does not need to be displayed on dwgs. Contractor to provide per project specifications
- Incorporated: See Dwgs
- Response: This submittal to be reviewed by owner. Does not need to be displayed on dwgs. Contractor to provide per project specifications
- Incorporated: See Dwgs A5.03
- Incorporated: See Dwgs A 1.07
- Incorporated: see dwgs A3.01
- Response: This submittal to be reviewed by owner. Does not to be displayed on dwgs. Contractor to provide per specifications

- 2. The "Investing in America" sign shall be in accordance with the Federal guidelines in Attachment B of this Section.
  - a. Layout of the sign shall be as shown on page 5 of the guidelines.
  - b. Local and State logos provided by the County shall be included on the sign as shown on pages 10, 11, and 12 of the guidelines.
  - c. Support the "Investing in America" sign with a system similar to that shown in Attachment A for the Project Sign.
- C. Erect Project identification sign and "Investing in America" sign where directed by Engineer within 30 days after the issuance of the Notice to Proceed.
- D. Provide and maintain a sign at the intersection of Kekuanaoa Street and Kekuanaoa Place directing traffic to the Plant site and a sign near the main entrance to the Plant site directing construction traffic to the Contractor's entrance gate.
- E. Replace or repair the signs within 10 working days of observation or notification of damage or graffiti.
- F. All signs and their supports shall be designed by a licensed structural engineer to withstand winds of not less than 100 mph.
- G. For all signs, submit Designs, scaled layouts, and mockups of the signs in color and with line, lettering styles, and scales for approval.

## **1.11 CONTRACTOR FIELD OFFICES AND SHEDS**

- A. Maintain on Project Site weather tight space in which to keep copies of Contract Documents, progress schedule, shop drawings, and other relevant documents.
- B. Provide field office with adequate space to examine documents and provide lighting and internet service in that space.
- C. Secure and pay for all permits associated with Contractor field offices and sheds.

## **1.12 OWNER'S AND ENGINEER'S/CONSTRUCTION MANAGER'S FIELD OFFICES**

- ✓ A. Provide separate field offices (weather-proof trailers) on the Project Site for exclusive use of the Owner and for the Engineer/Construction Manager (herein: Engineer's Field Offices), as follows. Weather-proof trailers, portable trailers, and all appurtenances and furnishings shall be new or like-new as approved by the Engineer.
  - ✓ 1. ✓ Sizes:
    - a. For Owner, 1 field office, approximately 10x30 feet with 8-foot minimum ceiling height.
    - b. For Engineer, 2 offices, approximately 10x30 feet with 8-foot minimum ceiling (Engineer's Field Offices 1 and 2).
  - ✓ 2. ✓ Construction:
    - a. Weather-proof trailers. Shipping containers or similar structures are not acceptable.
    - b. Interior and exterior walls sound-proofed.

- ✓ c. Owner's and Engineer's field offices shall be high-quality trailers of as-new construction and fully road rated, with tires, brakes, road lighting, and towing hitches.
- ✓ d. Offices shall be set with wheels off of the ground on jacks, blocks, and foundations and shall be anchored per codes against wind, seismic, and other forces, and against swaying.
- ✓ 3. Layout: Approved by Engineer and Owner. Layouts described below are tentative.
  - ✓ a. Owner's Field Office:
    - ✓ 1) 1 private office approximately 7-feet wide with interior door.
    - ✓ 2) 1 conference area/work/utility area.
  - ✓ b. Engineer's Field Office 1:
    - ✓ 1) 4 private offices approximately 7-feet wide with interior doors.
  - ✓ c. Engineer's Field Office 2:
    - ✓ 1) 1 private office approximately 7-feet wide with interior door.
    - ✓ 2) 1 large conference area.
    - ✓ 3) 1 partitioned storage/utility area approximately 6-feet wide.
- ✓ 4. Exterior materials:
  - ✓ a. Weather resistant and finished in 1 color acceptable to Engineer.
  - ✓ b. Skirting for underpinning of field offices.
  - ✓ c. Walls and roofs thermally insulated.
- ✓ 5. Provide wood stairs and handrails at each entry.
  - ✓ a. Porch landing at each entry shall be 5 feet by 5 feet.
  - ✓ b. Provide an ADA-compliant handicapped ramp for at least 1 exterior stairway of each office. A single ramp, as long as ADA-compliant, may serve more than 1 field office.
- ✓ 6. Interior materials in each office:
  - ✓ a. Sheet rock or similar for walls and acoustical panels for ceilings, pre-finished or painted.
- ✓ 7. Openings:
  - ✓ a. Number as required by codes.
  - ✓ b. Owner's Field Office:
    - ✓ 1) At least 6 windows, each with operable sash, insect screens, locks, and blinds.
    - ✓ 2) Entrance doors: At least 1, with cylinder locks and 4 keys.
  - ✓ c. Engineer's Field Office 1:
    - ✓ 1) At least 6 windows, each with operable sash, insect screens locks, and blinds.
    - ✓ 2) Entrance doors: At least 1, with cylinder locks and 8 keys.
  - ✓ d. Engineer's Field Office 2:
    - ✓ 1) At least 8 windows, each with operable sash, insect screens, locks, and blinds.
    - ✓ 2) Entrance doors: At least 2, with cylinder locks and at least 8 keys each.
- ✓ 8. Exterior lights with motion sensors over each entrance door.
- ✓ 9. Appropriate number and type of fire extinguishers for each field office.
- ✓ 10. Heating, ventilating, and air conditioning equipment, including maintenance and consumables, capable of maintaining all spaces by cooling to 68 degrees Fahrenheit and heating to 72 degrees Fahrenheit.

- ✓ 11. Washrooms:
- ✓ a. Provide a common, ADA-compliant, washroom, either a portable building or trailer, with separate men's and women's toilet and restroom facilities.
  - ✓ 1) Flush toilet in stall.
  - ✓ 2) Vented exhaust fan.
  - ✓ 3) Sink with hot and cold running water.
  - ✓ 4) Mirror.
  - ✓ 5) Electric water heater.
  - ✓ 6) Toilet paper holder.
  - ✓ 7) Paper towel dispenser.
  - ✓ 8) Toilet seat cover dispenser.
  - ✓ 9) Flush urinal (men's facility only).
- ✓ 12. Arrange and pay for, for each office trailer:
- ✓ a. Weekly janitorial service, including dusting, floor cleaning (sweeping, vacuuming, and/or mopping), and trash removal, and monthly comprehensive cleaning including inside and outside of windows.
  - ✓ b. A continuous supply of toilet paper, paper hand towels, toilet seat covers, and hand soap for each washroom.
  - ✓ c. Bottled drinking water service with a hot and cold water dispenser and paper cups.
  - ✓ d. Provide and maintain in each office, a first aid kit and cabinet in accordance with ANSI Z 308.1 and OSHA requirements.
  - ✓ e. A boot scraper and brush at each entrance.
  - ✓ f. Maintaining approach walks, decking, porches, and parking areas free of mud, water, and trash.
- ✓ 13. Secure and pay for all permits associated with Owner's and Engineer's/Construction Manager's field offices.
- ✓ B. Provide the following furnishings and equipment:
- ✓ 1. For each private office:
- ✓ a. Office desk: One 30x60-inch surface with 6 drawers (at least 2 lockable).
  - ✓ b. One ergonomic, swivel arm, multifunction office chair.
  - ✓ c. Two padded metal stackable chairs.
  - ✓ d. One 4-drawer, 18x30x52-inch metal filing cabinet with lockable drawers.
  - ✓ e. One bookcase with not less than 12 linear feet of shelves.
- ✓ 2. Additional furnishings for each field office:
- ✓ a. One conference table (not less than 36x84 inches for Owner's Field Office and not less than 48x144 inches for Engineer's Field Office 2).
  - ✓ b. Padded metal stackable chairs: 6 for Owner's Field Office and 10 for Engineer's Field Office 2.
  - ✓ c. Padded folding chairs: 4 for Owner's Field Office and 6 for Engineer's Field Office 2.
  - ✓ d. One supply cabinet with at least 15 square feet of shelves.
  - ✓ e. Waste baskets: 4 for Owner's Field Office and 8 for Engineer's Field Office 2.
  - ✓ f. One magnetic dry erase board, 96x48 inches for Engineer's Field Office 2 and 72x48 inches for Owner's Field Office.
  - ✓ g. Plan-hold, rolling stand for 12 binders, with binders: 2 for Owner's Field Office and 4 for Engineer's Field Office 2.
  - ✓ h. Refrigerator: 15 cubic feet capacity with ice maker for Owner's Field Office and Engineer's Field Office 2.

Added as per Bid Addendum 03

"If field offices are not ready for occupancy within 5-10 weeks after initial mobilization, Contractor shall provide temporary field offices or rent equivalently sized local office space until field offices are ready for occupancy, which shall occur no later than 6 months after Notice to Proceed."

- ✓. 1,200-watt microwave oven, at least 1 cubic foot for Owner's Field Office and Engineer's Field Office 2.
  - ✓. K-cup coffee maker with direct water hookup and coffee cups. Conference tables may be multiple metal folding tables with heat-, stain-, and damage-resistant tops.
  - ✓. Provide kitchen sink with hot and cold running water in Owner's Field Office and Engineer's Field Offices.
  - ✓. Provide and mount in field offices, a high-quality, wall-mounted OLED smart TV monitor with a minimum of 2 USB and at least 2 HDMI inputs. Size: minimum 70-inch for Engineer's Field Office 2 and 65-inch for Owner's Field Office.
  - ✓. 3. Locate field offices where directed.
  - ✓. 4. Have field offices ready for occupancy within 5 weeks after initial mobilization.
    - a. Provide hard surfaced handicapped parking spaces: number and striping as required by Federal, State, and local ADA criteria.
- Deleted and replaced as per Bid Addendum 06  
10 weeks Addendum 06
- ✓C. Maintenance of the field offices, furniture, washrooms, and appurtenances and furnishing of specified supplies and services shall be the Contractor's responsibility throughout the contract.
  - ✓D. Sewage service for field offices:
    - ✓1. Sewage service to the area designated for the Owner's and Engineer's field offices is not available.
    - ✓2. Contractor shall construct, operate, and maintain sewage service either by installing a holding tank with temporary pumps and piping to an Owner-designated location on the Project site or by installing a holding tank to be pumped and hauled daily by Contractor to an Owner-designated location on the Project site.

## 1.13 FIELD OFFICE DATA SERVICE AND EQUIPMENT

- A. Provide the following data services for the duration of the project.
- B. Contractor is responsible for maintenance of service and hardware.
- C. Data service will be dedicated separately to the Engineer, Construction Manager, and Owner and not shared with each other or any other party.
- D. Contractor provide a durable and weather-tight system for connecting the Engineer's field offices to the service provider's facilities at the jobsite boundary.
- E. Data service:
  - 1. Broadband Internet.
    - a. Minimum Internet bandwidth speed:
      - 1) Download: 100 Million bits per second (Mbps).
      - 2) Upload: 10 Million bits per second (Mbps).
    - b. Modem, if applicable: Disable the wireless radio.

# WWTP Field Office Trailer Specifications

## Trailer

- Custom Fabricated trailer by Lippert, featuring 3 ea 7,000 lb axles and brakes, with added turn signal and brake lights and wiring connectors.

## Structure

- Structure framed with full 2x framing including Simpson strong tie connectors from floor to roof structure.
- 100% HI-bor termite treated lumber.
- LP Smart siding and trim at exteriors.
- LP techsheild roof sheathing for additional roof structure integrity, reflective heat barrier, and sound dampening.

## Thermal and Moisture Protection

- Tyvek home wrap weather barrier for improved insulation performance and reduced water vapor intrusion.
- Palisades self-adhering roof waterproofing membrane.
- Rockwool Safe n' Sound insulation at interior and exterior walls for enhanced fire resistance and sound proofing.
- R19 insulation in ceilings for additional heat protection, additional sound attenuation and enhanced insulation of conditioned spaces.
- ZINCALUME custom 4 rib metal roofing and associated drip edge, rake, and peak flashing.

## Openings

- Double pane, High E, Vinyl sliding windows.
- Hollow metal door and frame at exterior doors for enhanced durability/weather resistance and security.
- Solid core interior doors for additional privacy, durability and sound attenuation.

## Finishes and Fixtures

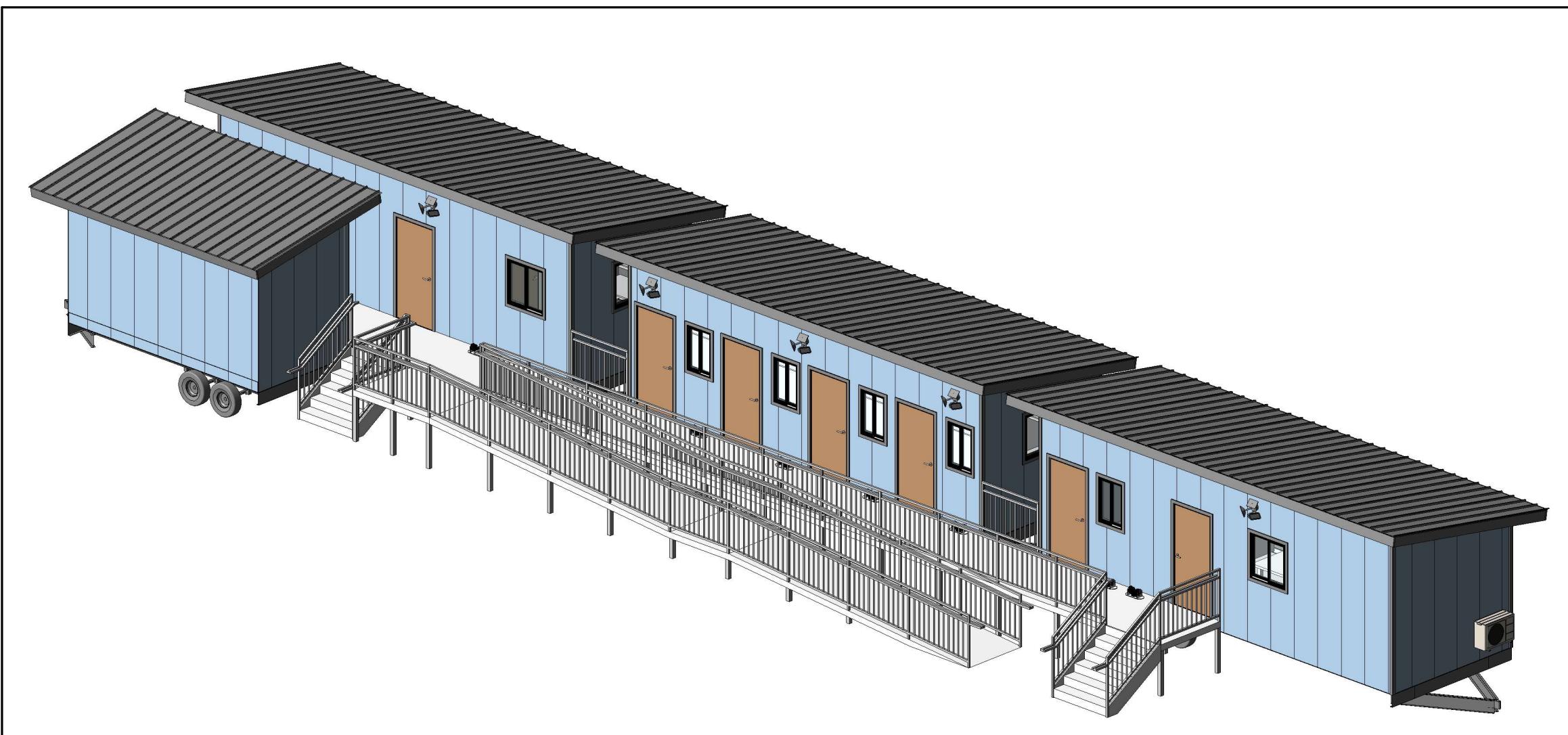
- Full grid ceilings for ease of maintenance to MEP installations.
- Gypsum Board wall coverings for a more pleasing aesthetic.
- Kwikset Smartkey door hardware for enhanced convenience and access control.
- Ductless Split HVAC systems for user selectable climate control.
- American Standard ADA compliant plumbing fixtures.
- Selectable Temperature LED lighting fixtures for more natural lighting and extended lamp life.
- High traffic sheet vinyl flooring, 4" vinyl cove base, and wood door trim and window sills in user selectable colors.
- High quality latex paint suitable to interior and exterior applications in user selectable colors.

**NOTE: THIS SPEC IS FOR REFERENCE ONLY, ALL REQUIREMENT WILL BE PROVIDED PER PROJECT SPECIFICATION**

# **HILO WASTE WATER TREATMENT PLANT**

## **FIELD OFFICE DESIGN PACKAGE**

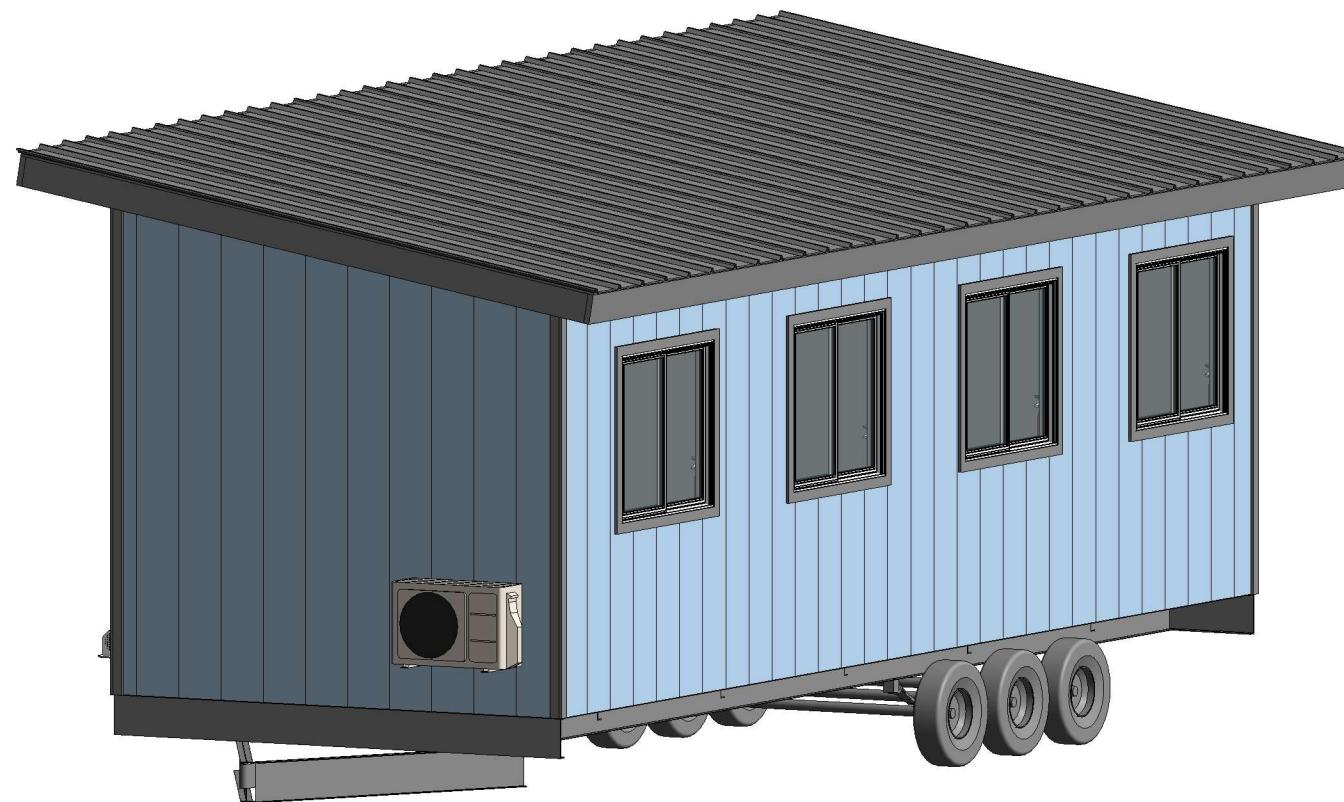
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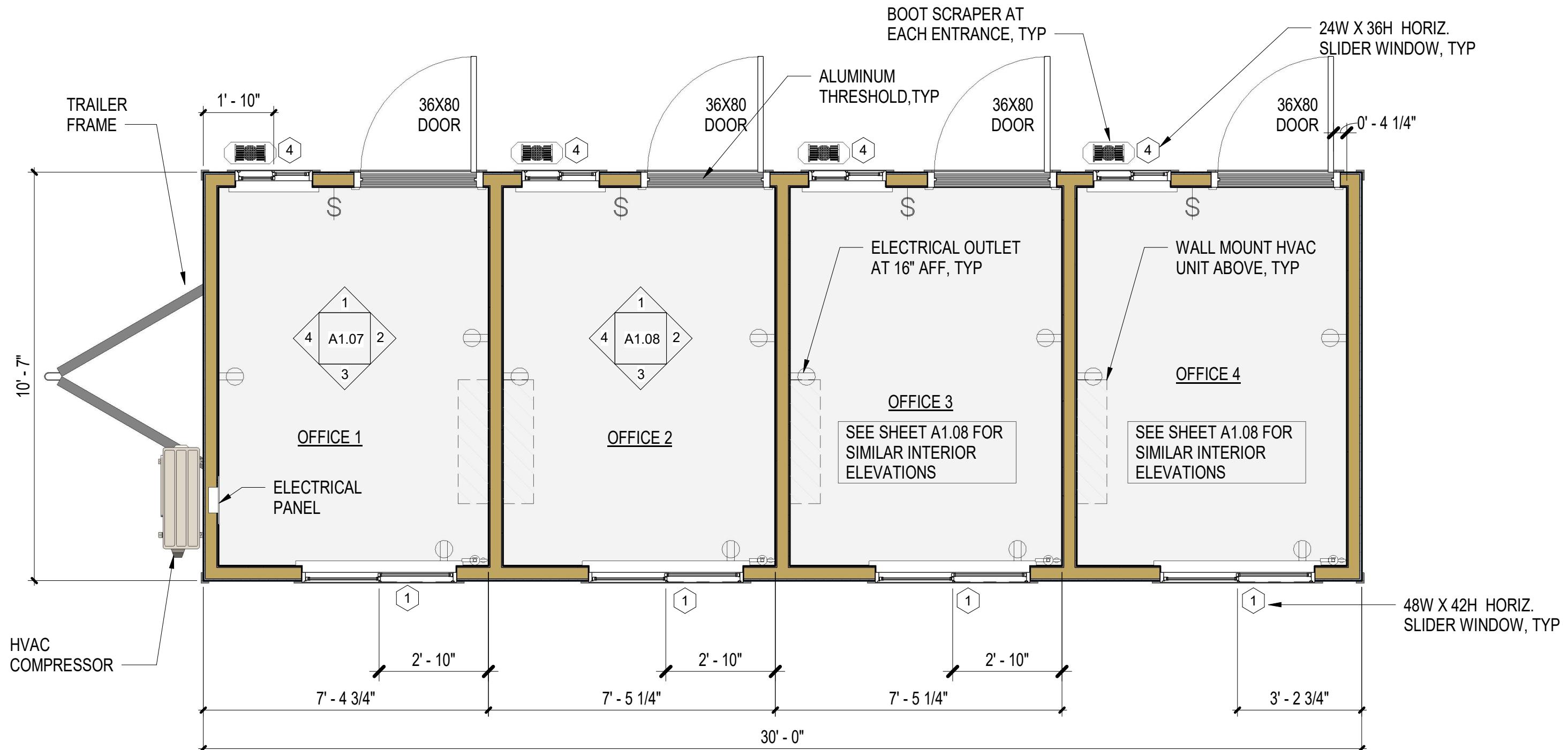
# **HILO WASTE WATER TREATMENT PLANT**

## **FIELD OFFICE DESIGN PACKAGE**

### **SUBMITTAL**



**ENGINEER'S OFFICE TRAILER 1**



1 ENGINEER'S OFFICE TRAILER 1 PLAN  
3/8" = 1'-0"



**NAN INC.**

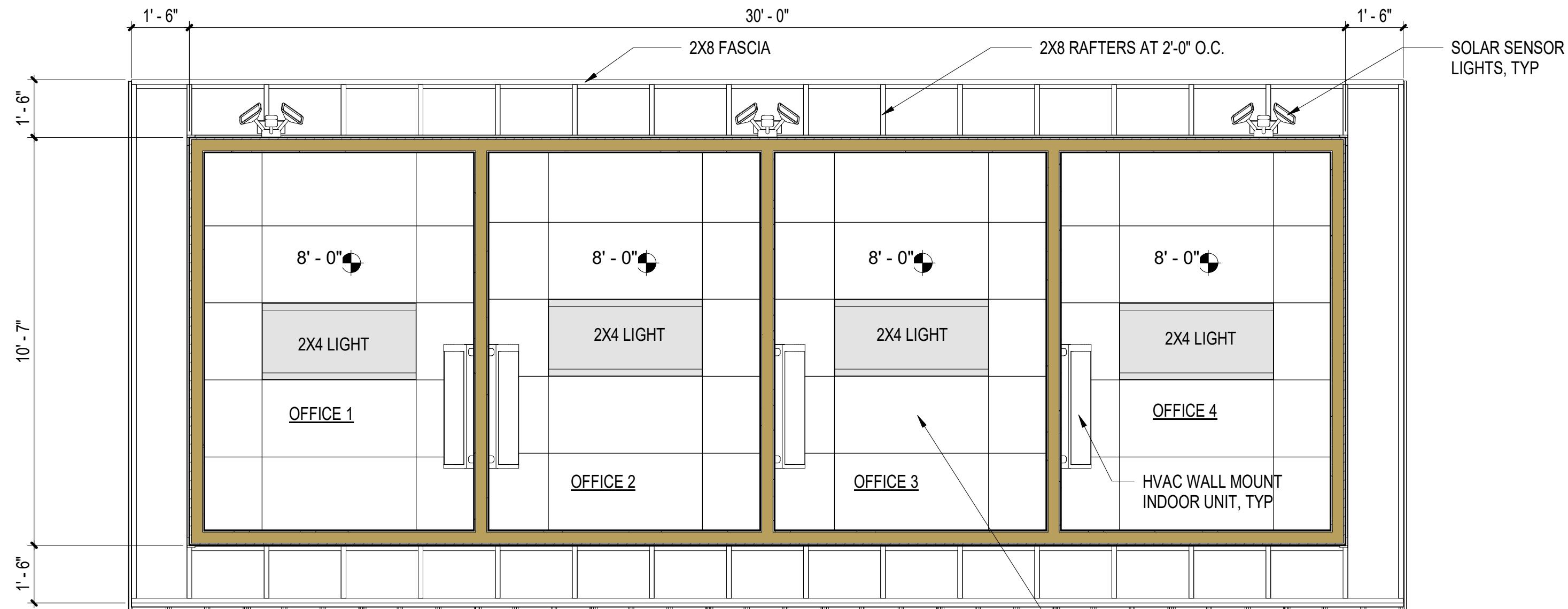
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	-

A1.01



① ENGINEER'S OFFICE TRAILER 1 RCP  
3/8" = 1'-0"



**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 RCP

Project number	004
Date	MAY 2, 2025
Drawn by	Author
Checked by	Checker

A1.02



1 ENGINEER'S OFFICE TRAILER 1 NORTH  
ELEVATION  
3/8" = 1'-0"

**NAN INC.**

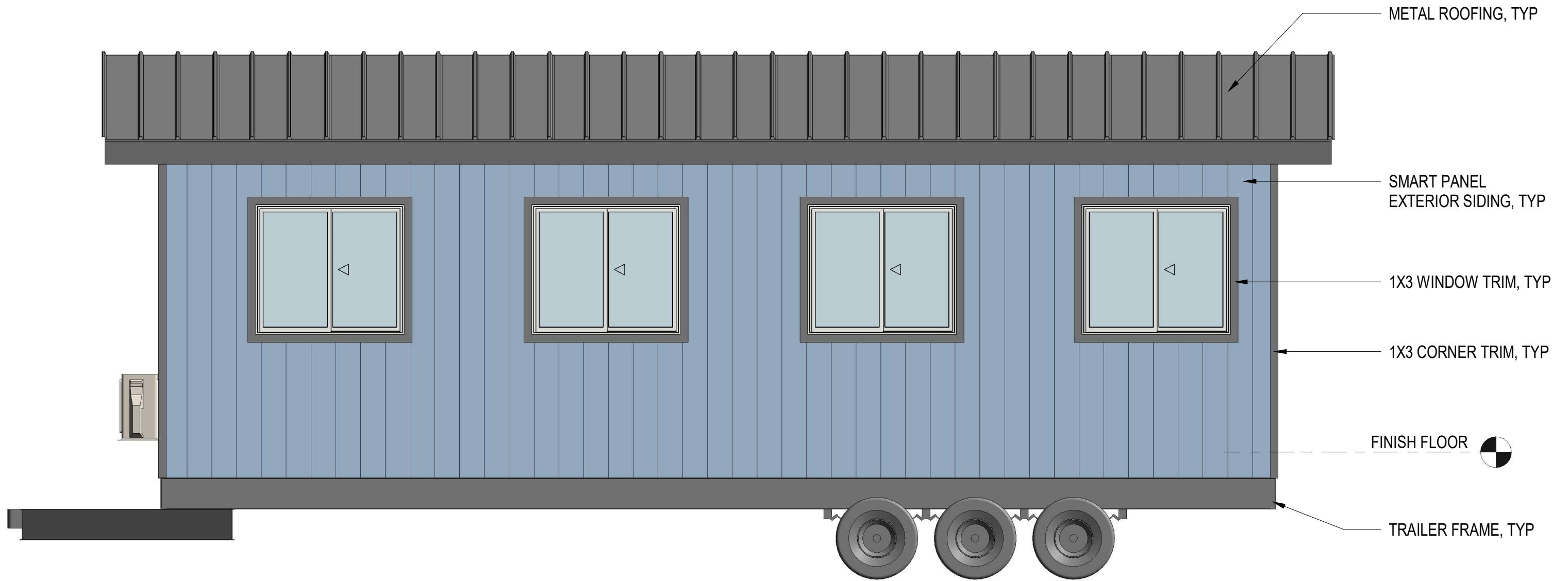
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 NORTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A1.03



**NAN INC.**

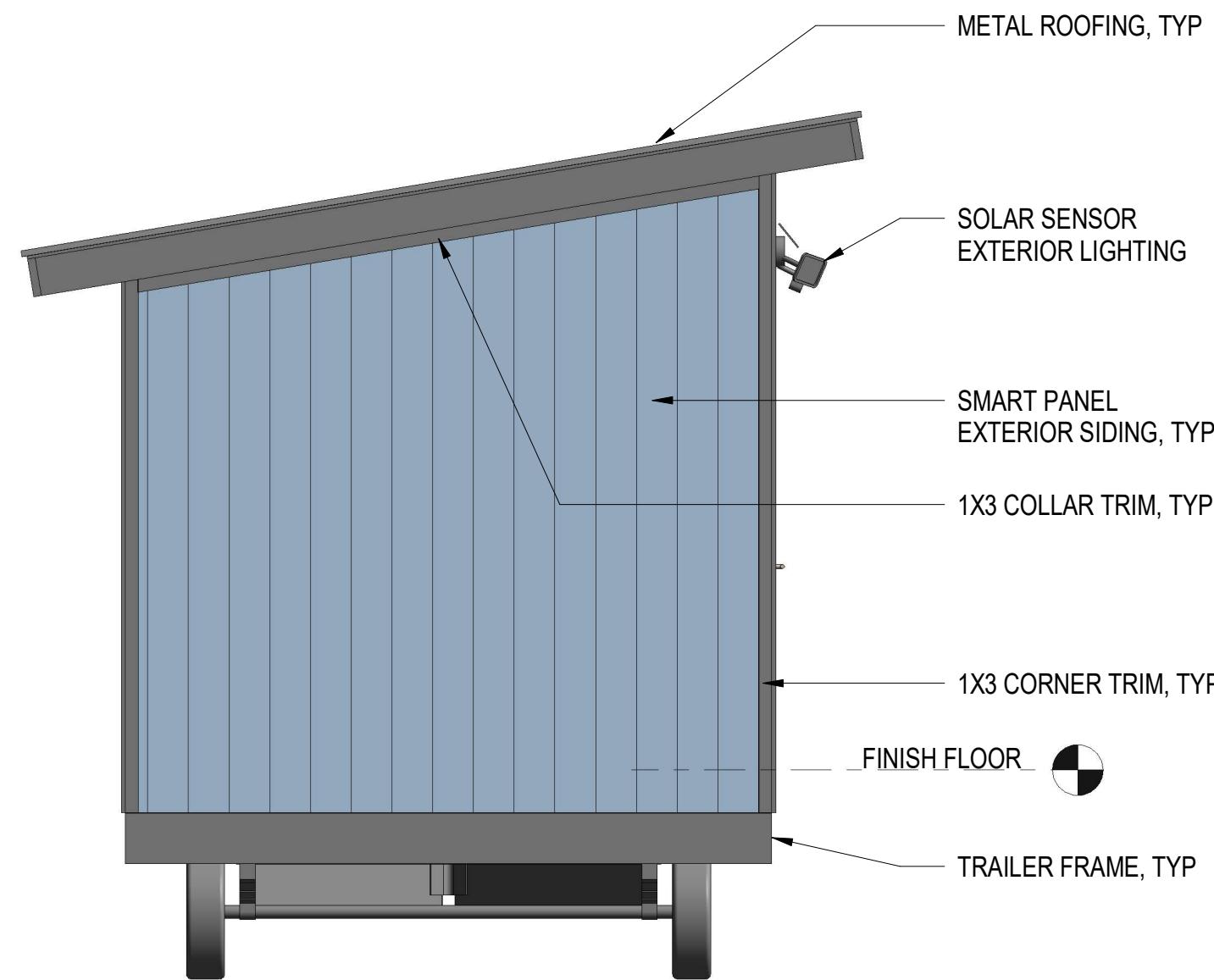
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

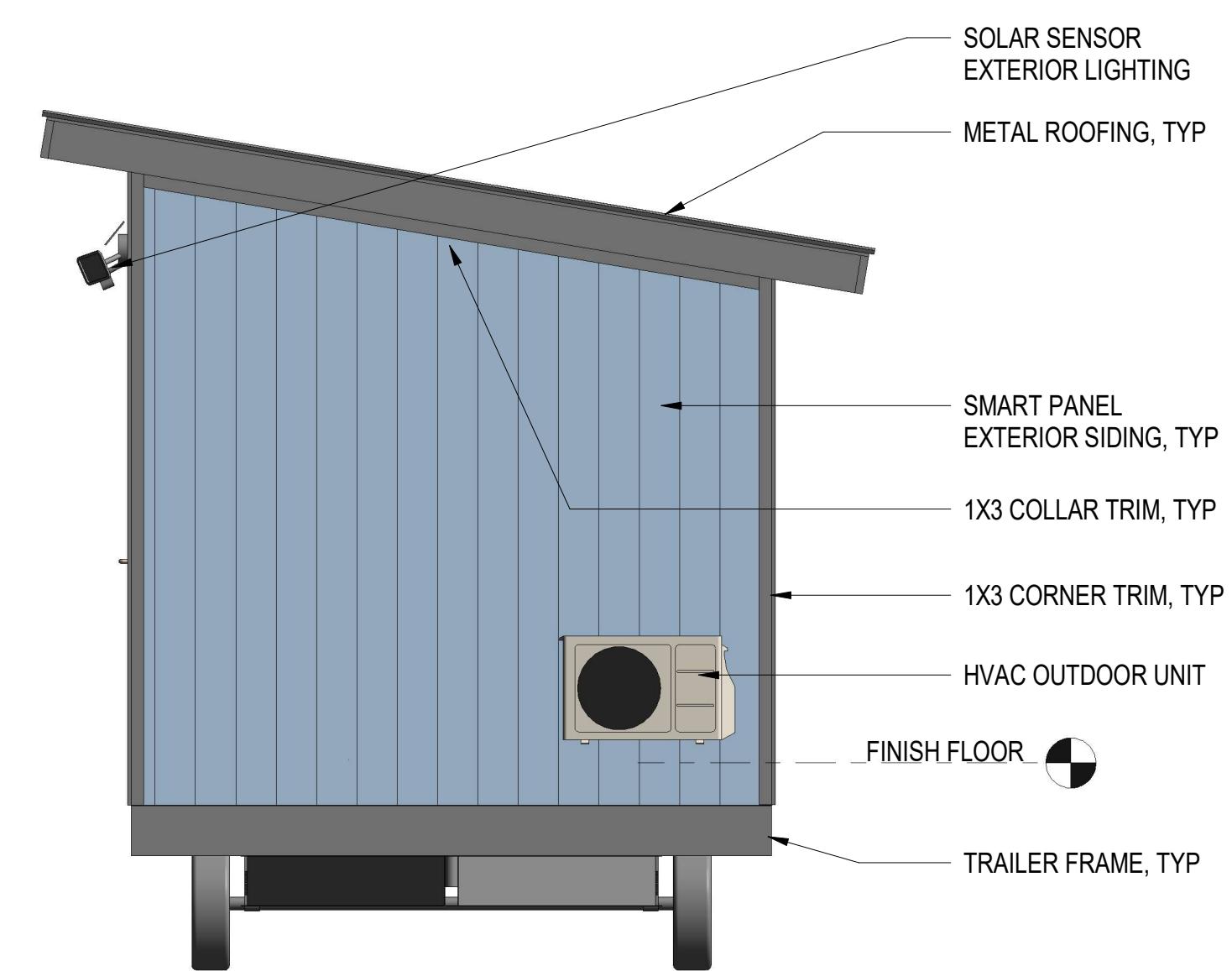
ENGINEER'S OFFICE TRAILER 1 SOUTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A1.04



ENGINEER'S OFFICE TRAILER 1 EAST  
ELEVATION  
 $3/8" = 1'-0"$



ENGINEER'S OFFICE TRAILER 1 WEST  
ELEVATION  
 $3/8" = 1'-0"$

**NAN INC.**

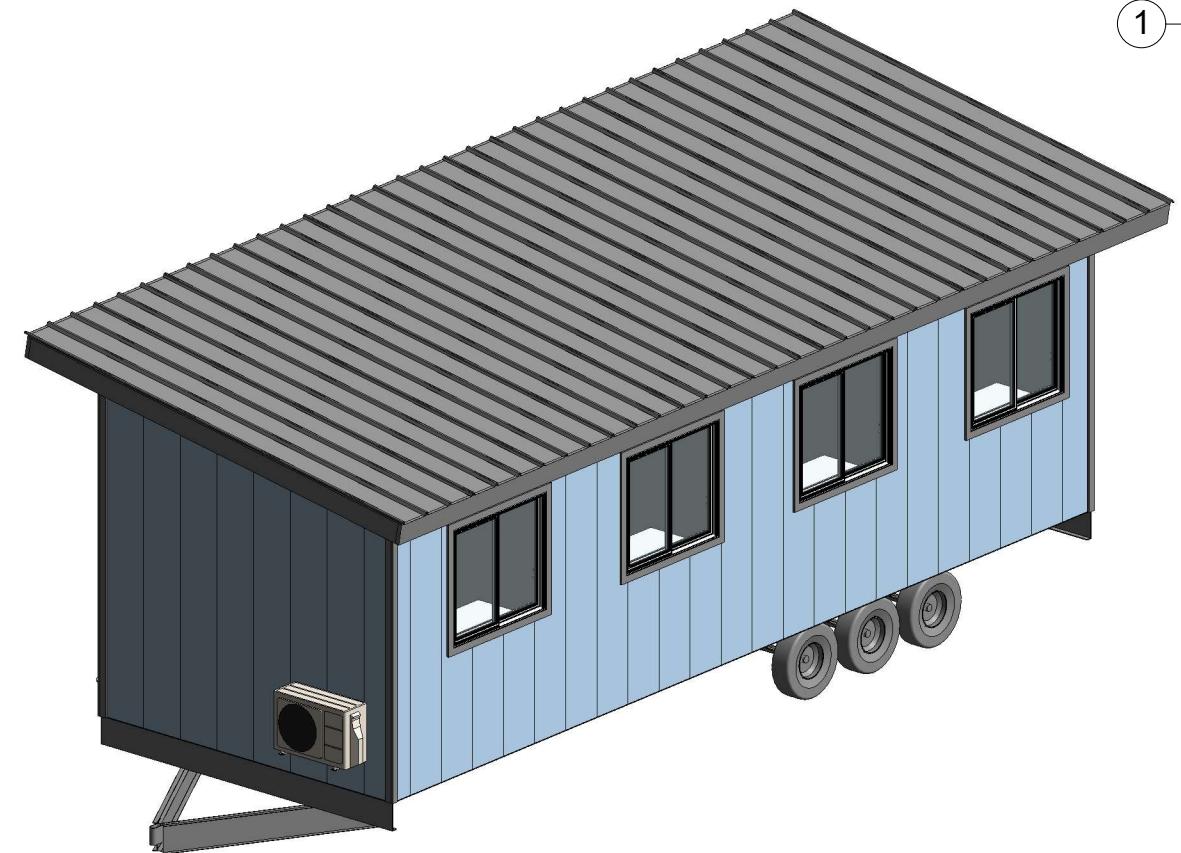
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

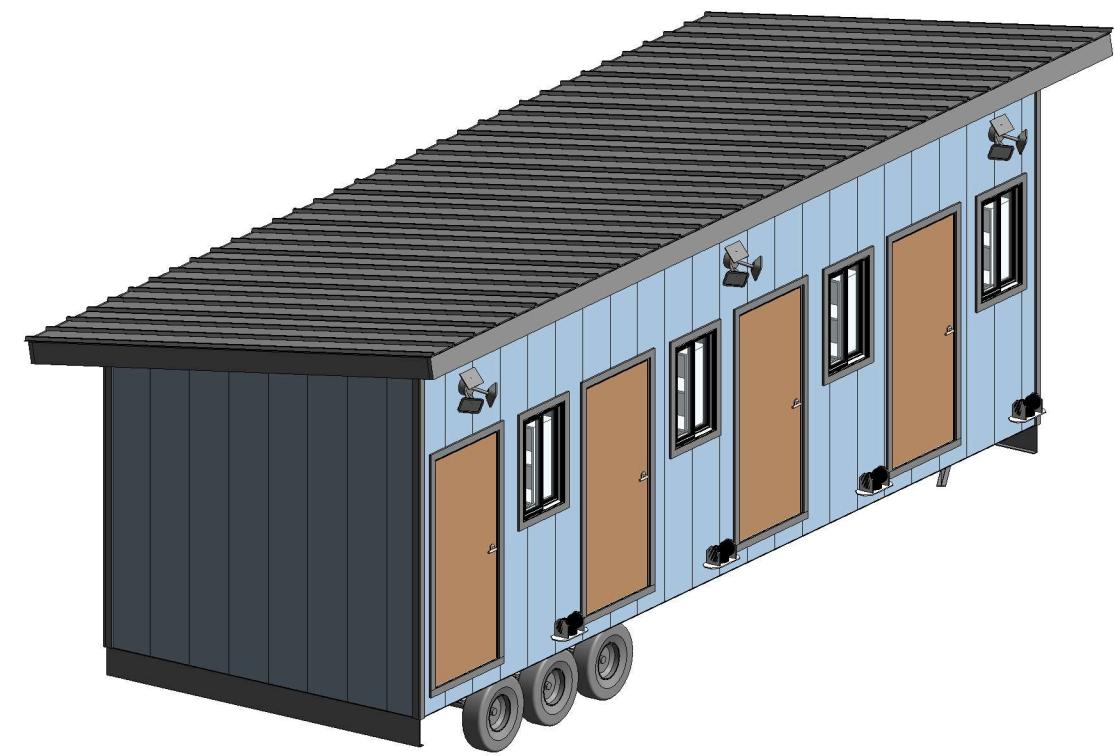
**A1.05**



③ VIEW OF THE SOUTHWEST CORNER -  
ENGINEER'S TRAILER 1



① VIEW OF ENGINEER'S TRAILER 1 ONLY



② VIEW OF THE NORTHEAST CORNER -  
ENGINEER'S TRAILER 1

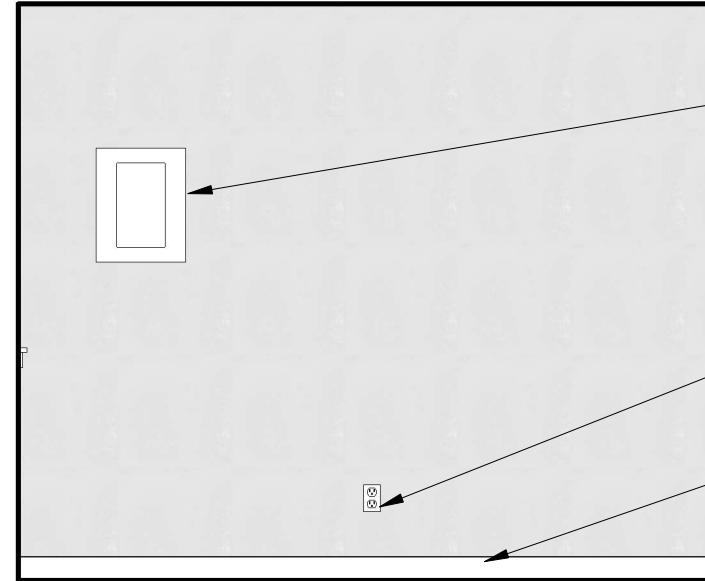
**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 - AXONOMETRIC DRAWINGS	
Project number	004
Date	MAY 2, 2025
Drawn by	Author
Checked by	Checker
Scale	AS NOTED

A1.06

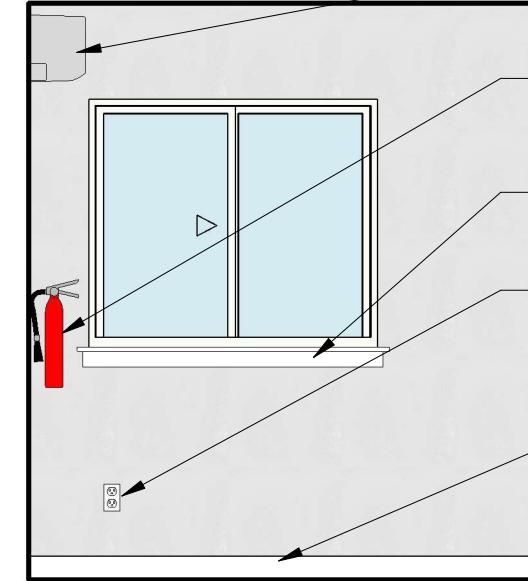


④ TRAILER 1- OFFICE 1 WEST ELEVATION  
3/8" = 1'-0"

ELECTRICAL PANEL

ELECTRICAL OUTLET, TYP

4" VINYL BASEBOARD



③ TRAILER 1- OFFICE 1 SOUTH ELEVATION  
3/8" = 1'-0"

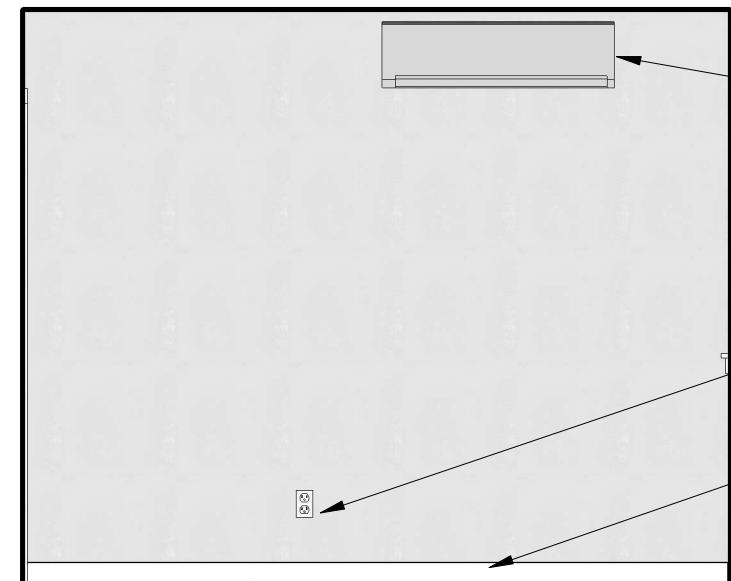
HVAC WALL MOUNT INDOOR UNIT

FIRE EXTINGUISHER

WINDOW SILL AND APRON

ELECTRICAL OUTLET

4" VINYL BASEBOARD

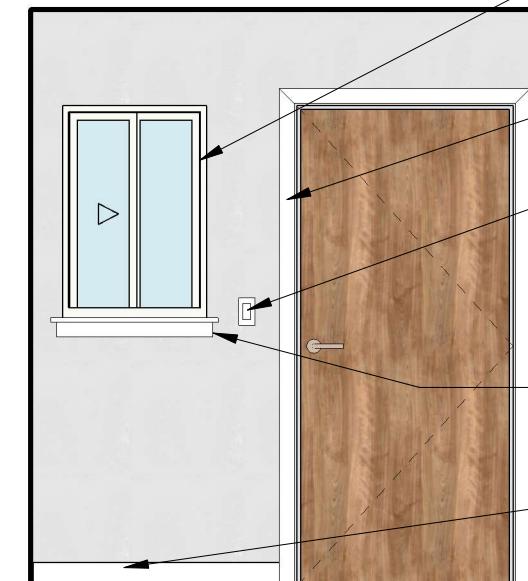


② TRAILER 1- OFFICE 1 EAST ELEVATION  
3/8" = 1'-0"

HVAC WALL MOUNT INDOOR UNIT

ELECTRICAL OUTLET, TYP

4" VINYL BASEBOARD



① TRAILER 1- OFFICE 1 NORTH ELEVATION  
3/8" = 1'-0"

24W X 36H HORIZ. SLIDER WINDOW, TYP

1X3 TRIM

LIGHT SWITCH

WINDOW SILL AND APRON

4" VINYL BASEBOARD

**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

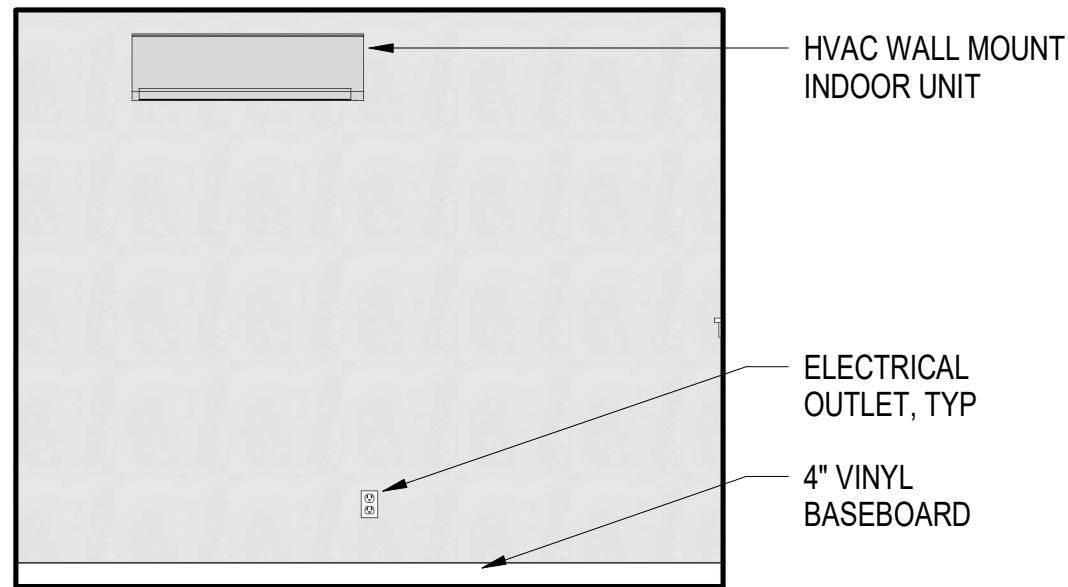
No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 - INTERIOR ELEVATIONS

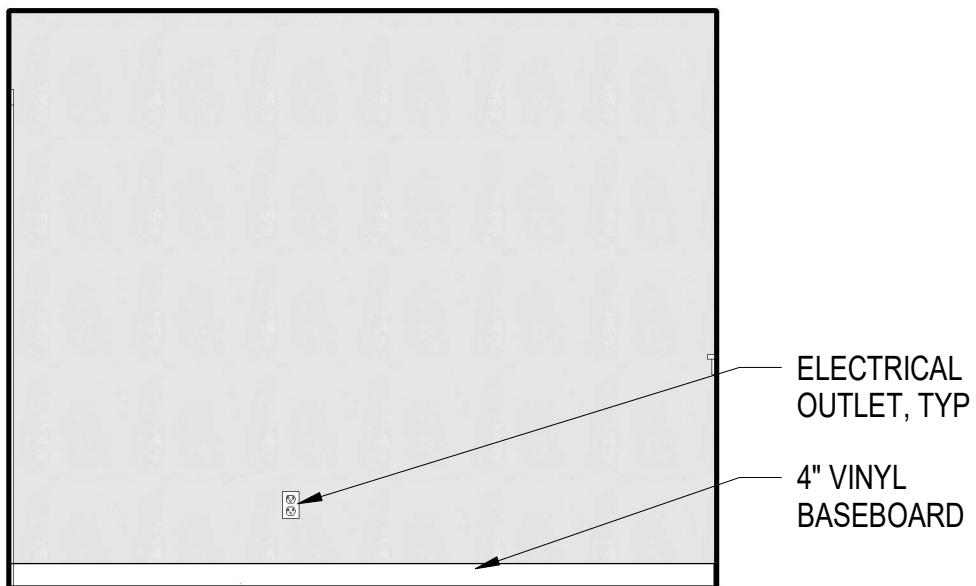
Project number	004	A1.07
Date	MAY 2, 2025	
Drawn by	GM	
Checked by	--	Scale AS NOTED

**NAN INC.**

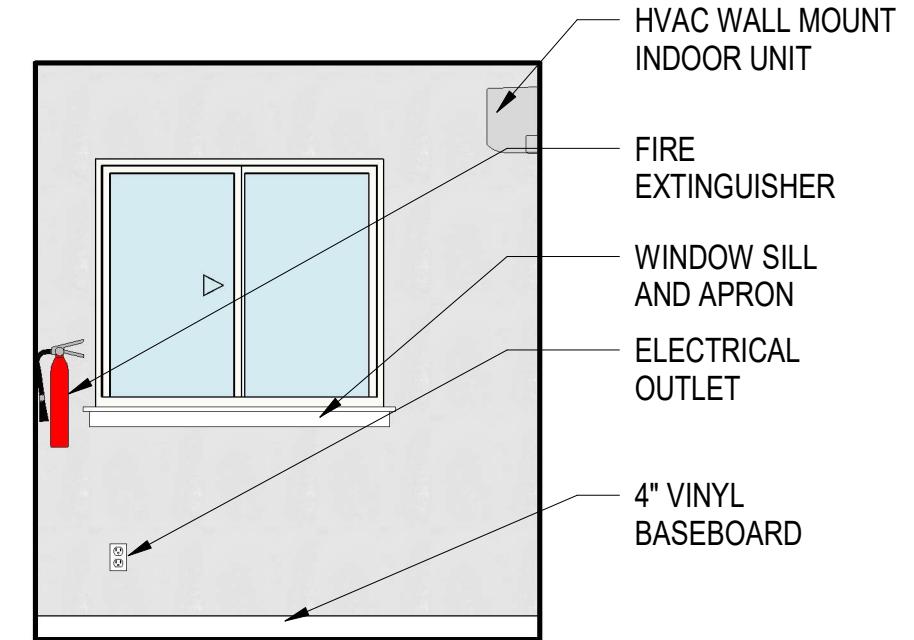
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS



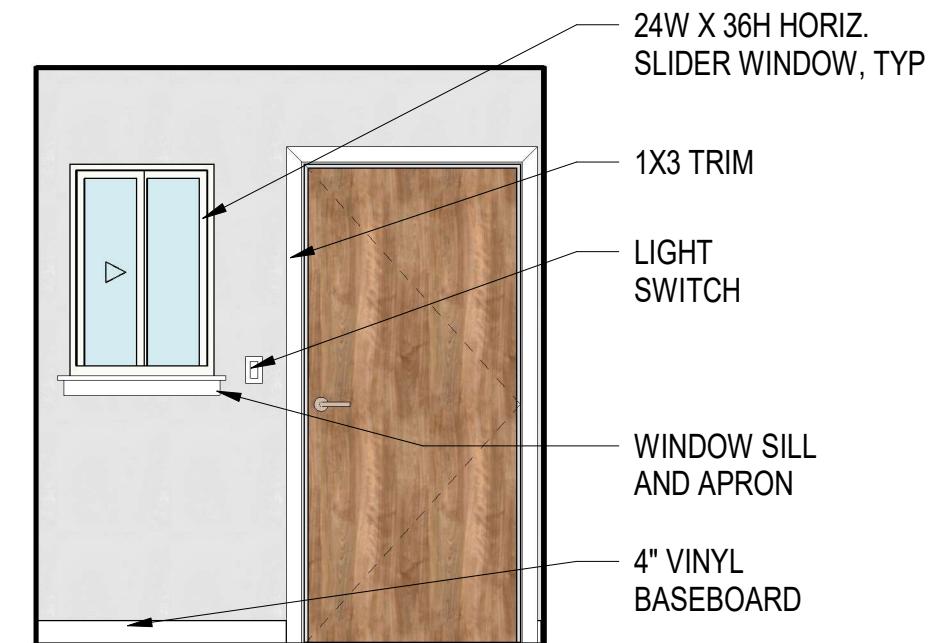
④ TRAILER 1- OFFICE 2 WEST  
ELEVATION  
 $3/8" = 1'-0"$



② TRAILER 1- OFFICE 2 EAST  
ELEVATION  
 $3/8" = 1'-0"$



③ TRAILER 1- OFFICE 2 SOUTH  
ELEVATION  
 $3/8" = 1'-0"$

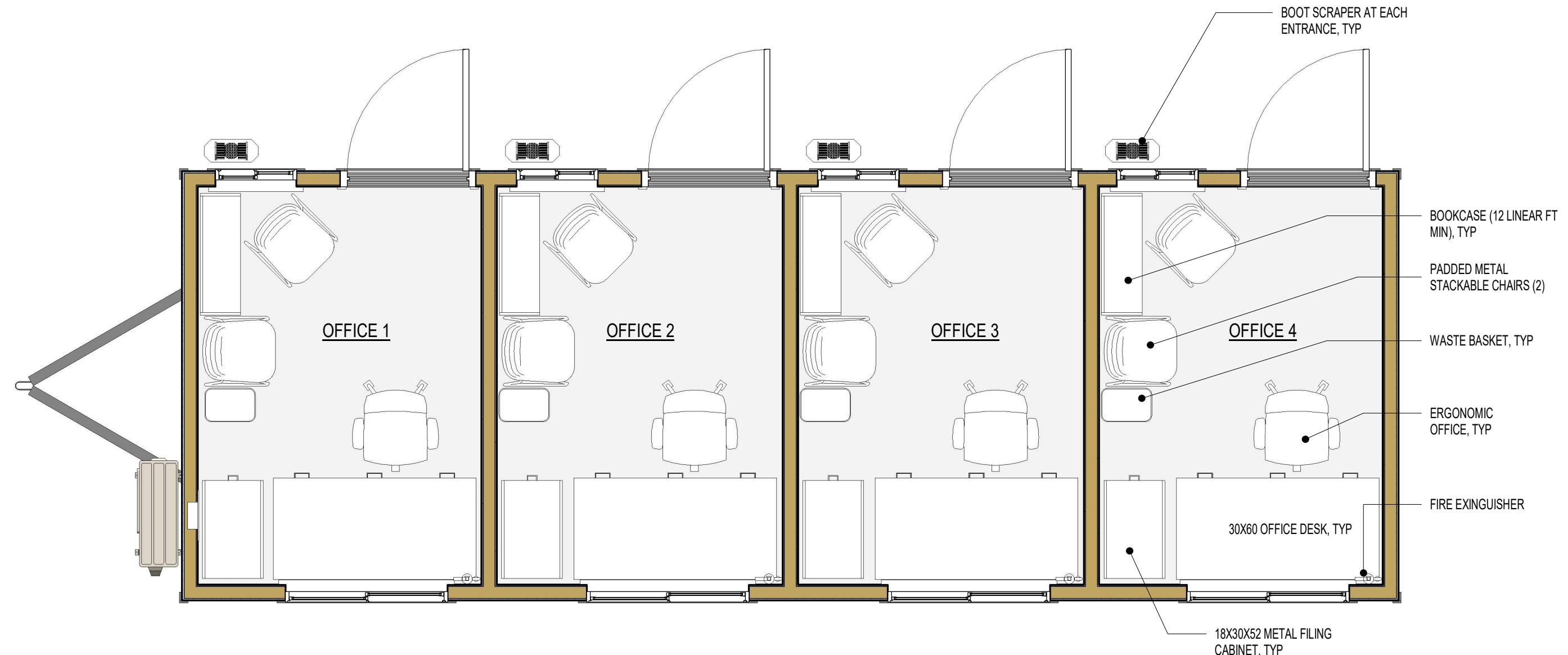


① TRAILER 1- OFFICE 2 NORTH  
ELEVATION  
 $3/8" = 1'-0"$

No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 - INTERIOR ELEVATIONS

Project number	004	A1.08
Date	MAY 2, 2025	
Drawn by	GM	
Checked by	--	Scale AS NOTED



ENGINEER'S OFFICE TRAILER 1  
FURNITURE & EQUIPMENT PLAN  
1  
3/8" = 1'-0"

**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

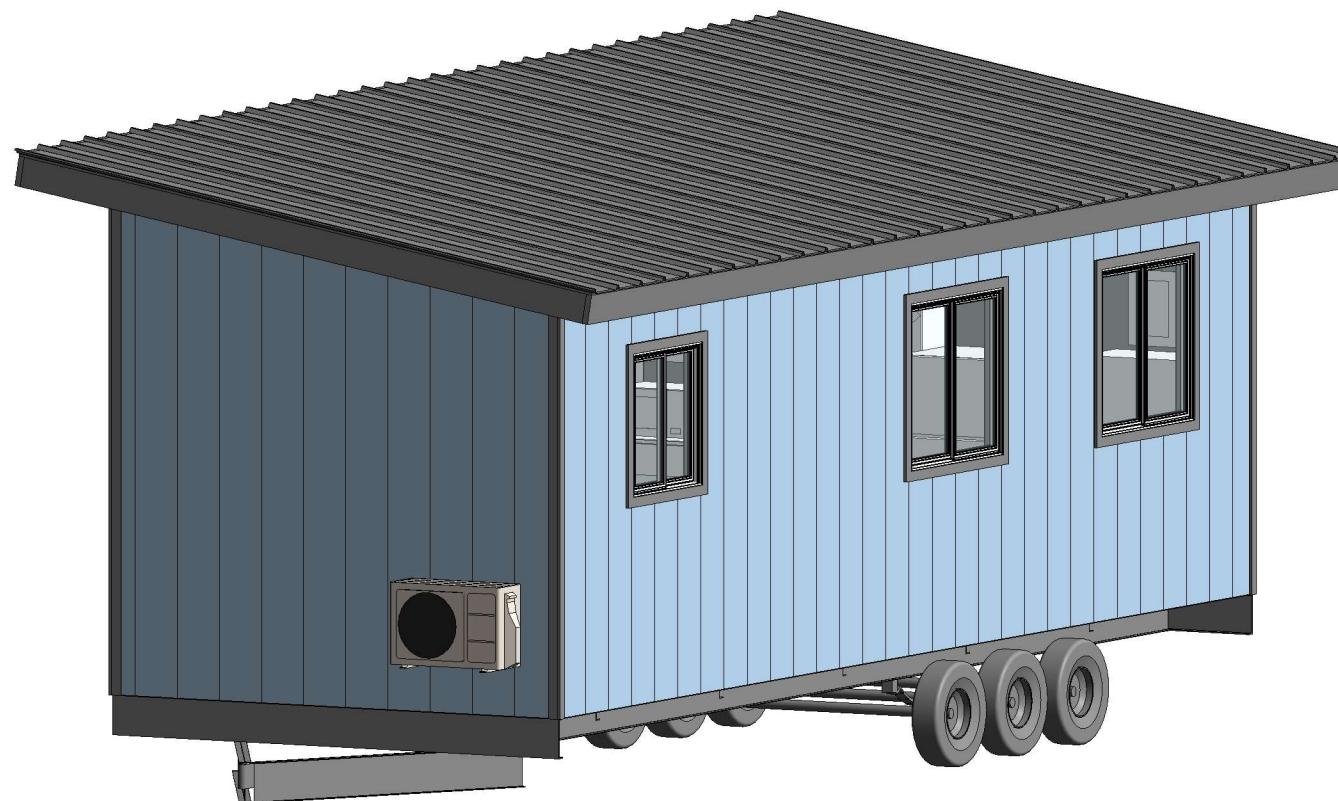
No.	Description	Date

ENGINEER'S OFFICE TRAILER 1 FURNITURE & EQUIPMENT PLAN		A1.09
Project number	004	
Date	MAY 2, 2025	
Drawn by	Author	
Checked by	Checker	Scale AS NOTED

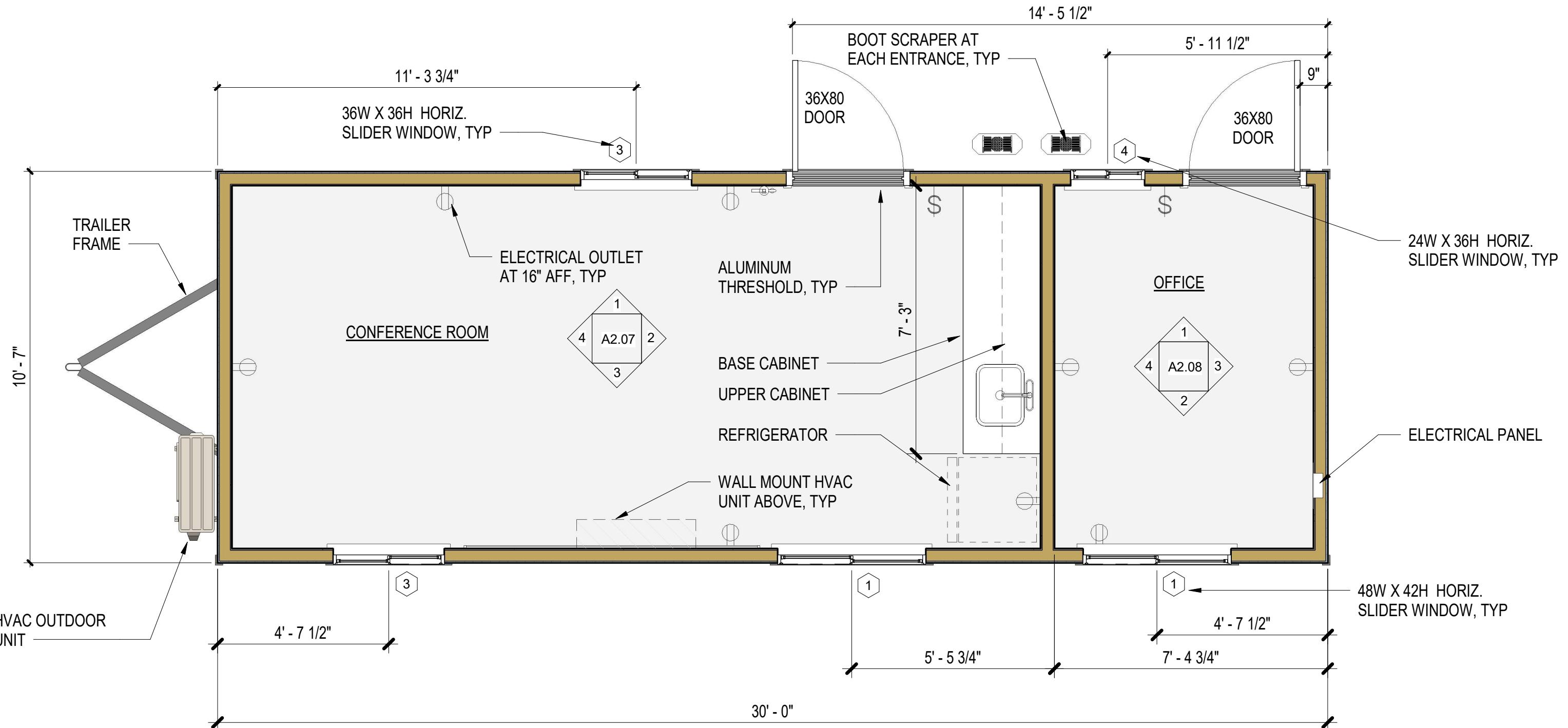
# **HILO WASTE WATER TREATMENT PLANT**

## **FIELD OFFICE DESIGN PACKAGE**

### **SUBMITTAL**



**ENGINEER'S OFFICE TRAILER 2**



**NAN INC.**

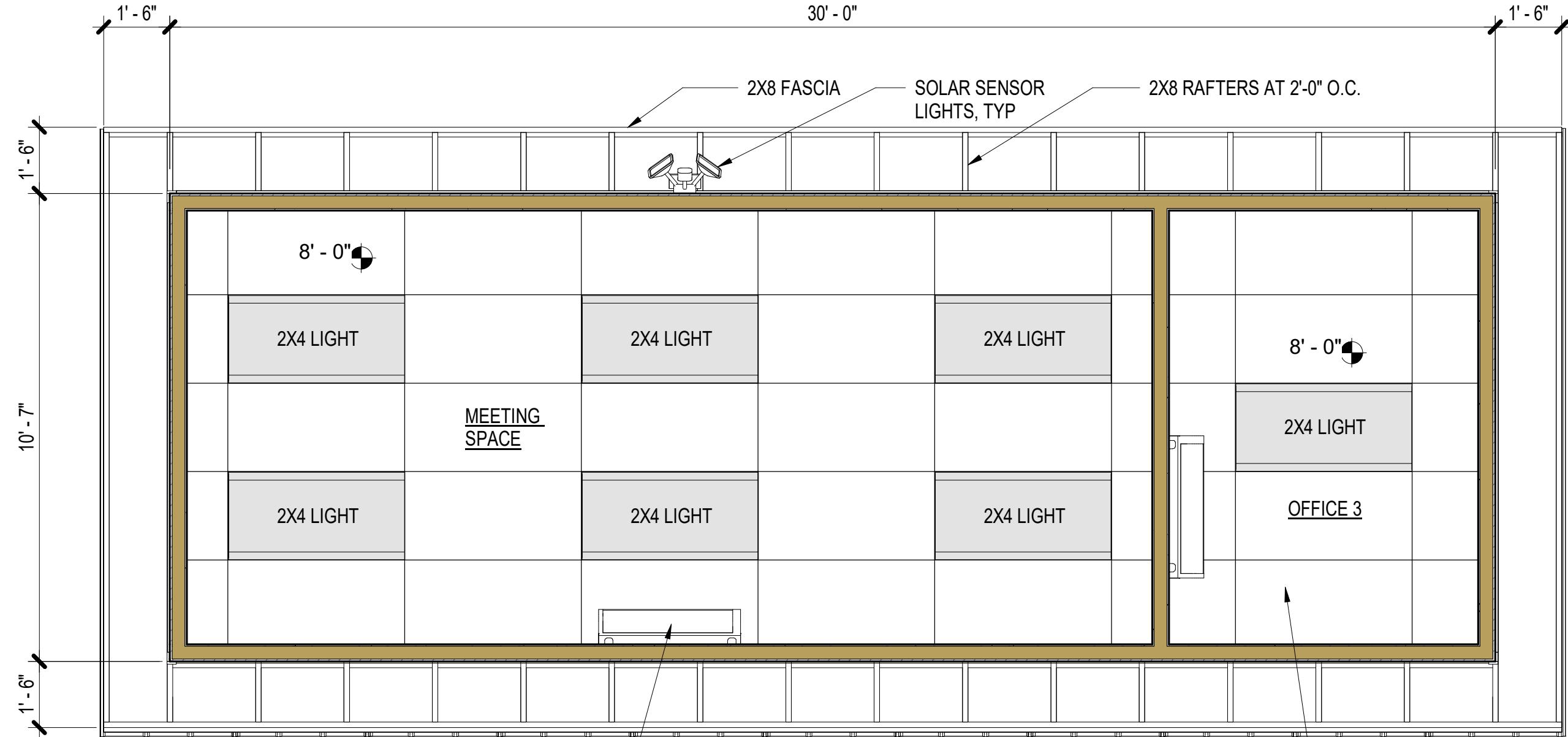
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A2.01



① ENGINEER'S OFFICE TRAILER 2 RCP  
3/8" = 1'-0"



**NAN INC.**

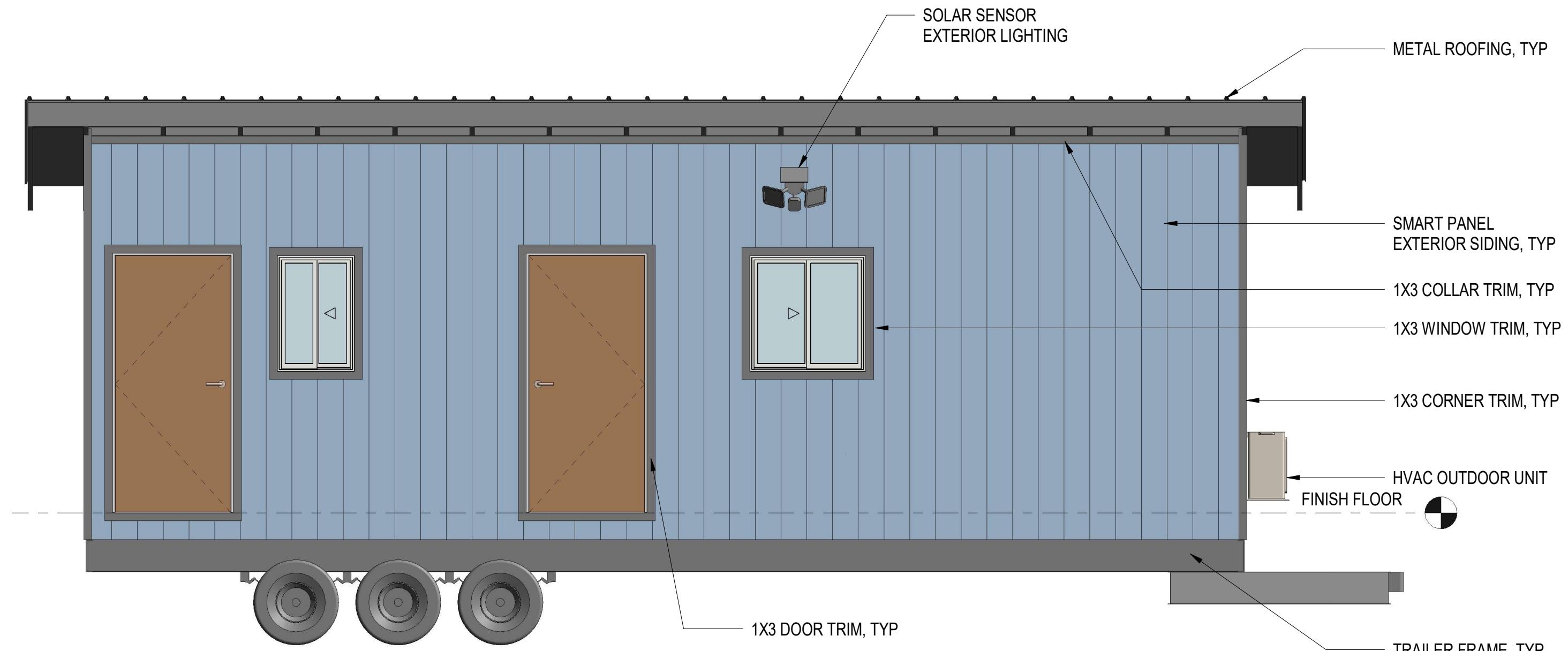
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 RCP

Project number	004
Date	MAY 2, 2025
Drawn by	Author
Checked by	Checker

A2.02



ENGINEER'S OFFICE TRAILER 2 NORTH  
 ELEVATION  
 ① 3/8" = 1'-0"

**NAN INC.**

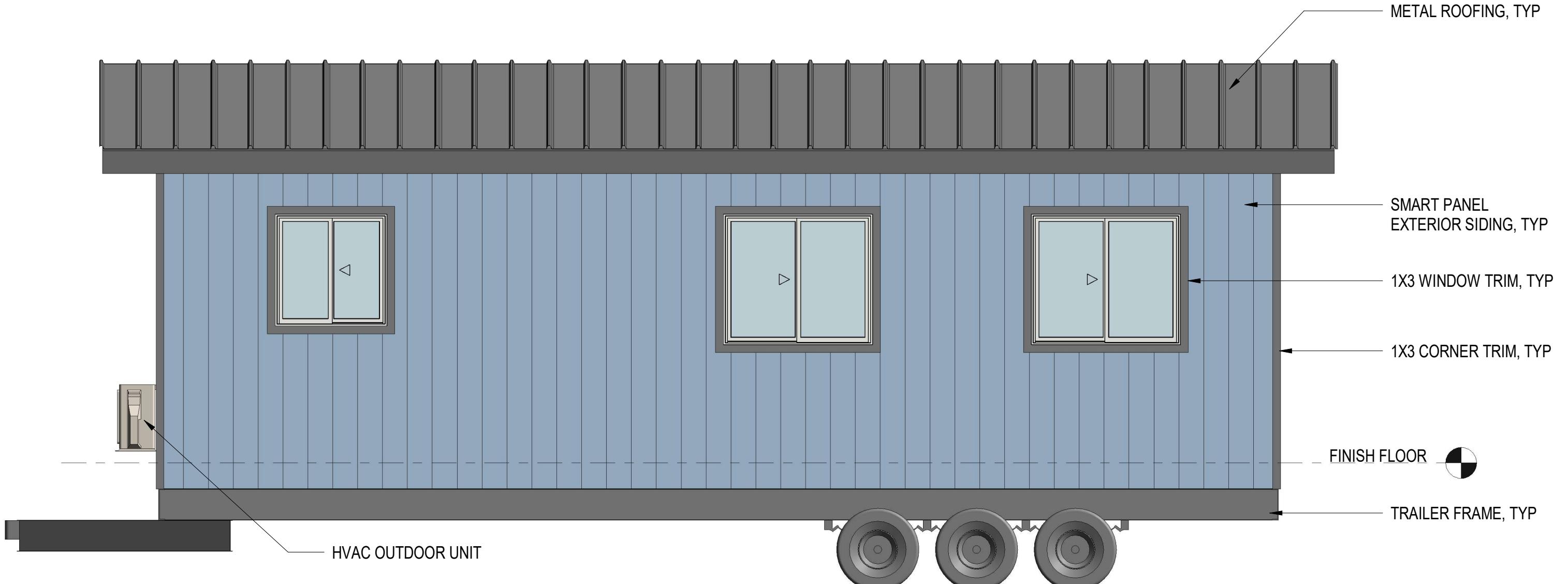
HILO WASTE WATER TREATMENT PLANT  
 FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 NORTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A2.03**



ENGINEER'S OFFICE TRAILER 2 SOUTH  
ELEVATION  
① 3/8" = 1'-0"

**NAN INC.**

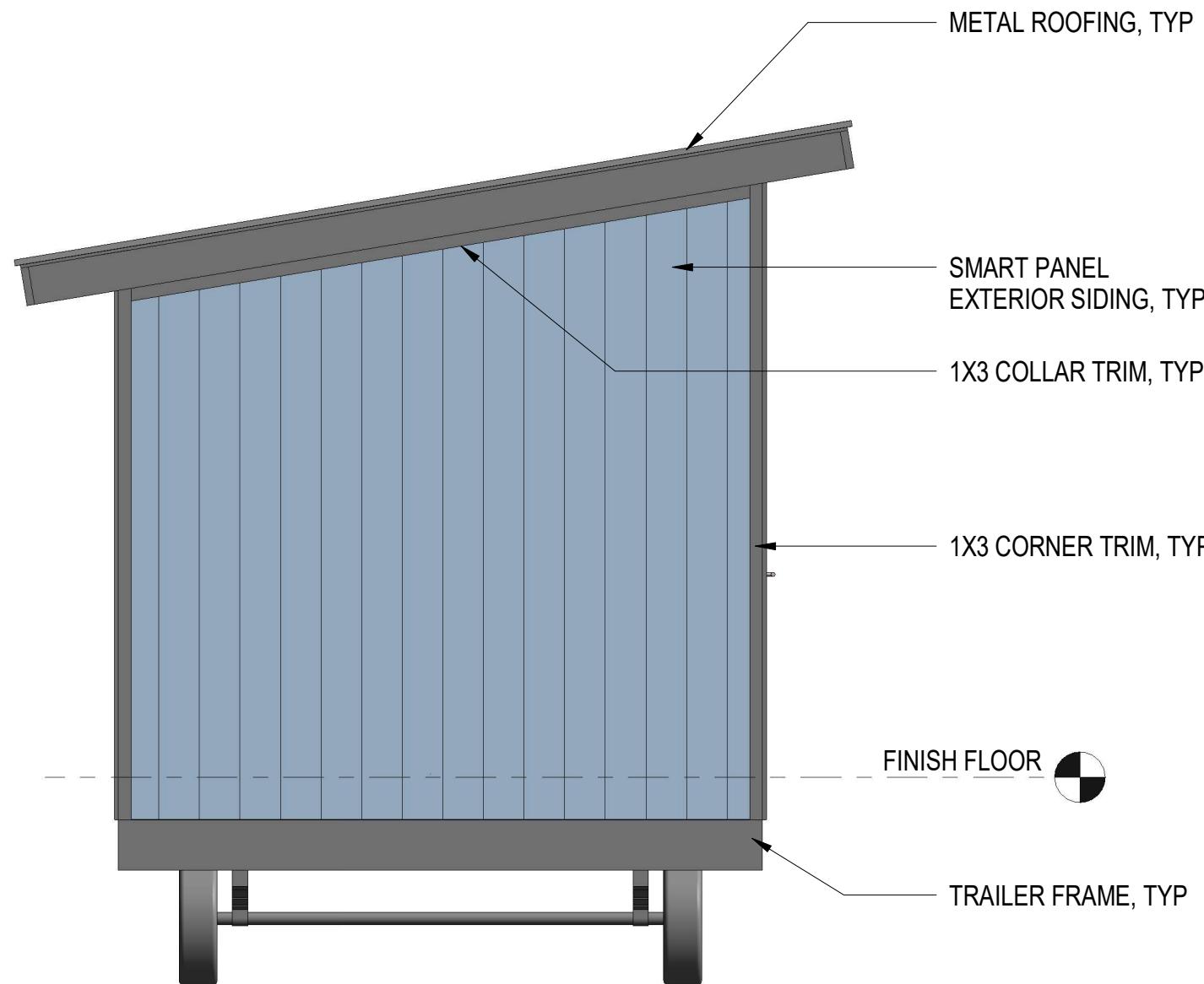
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

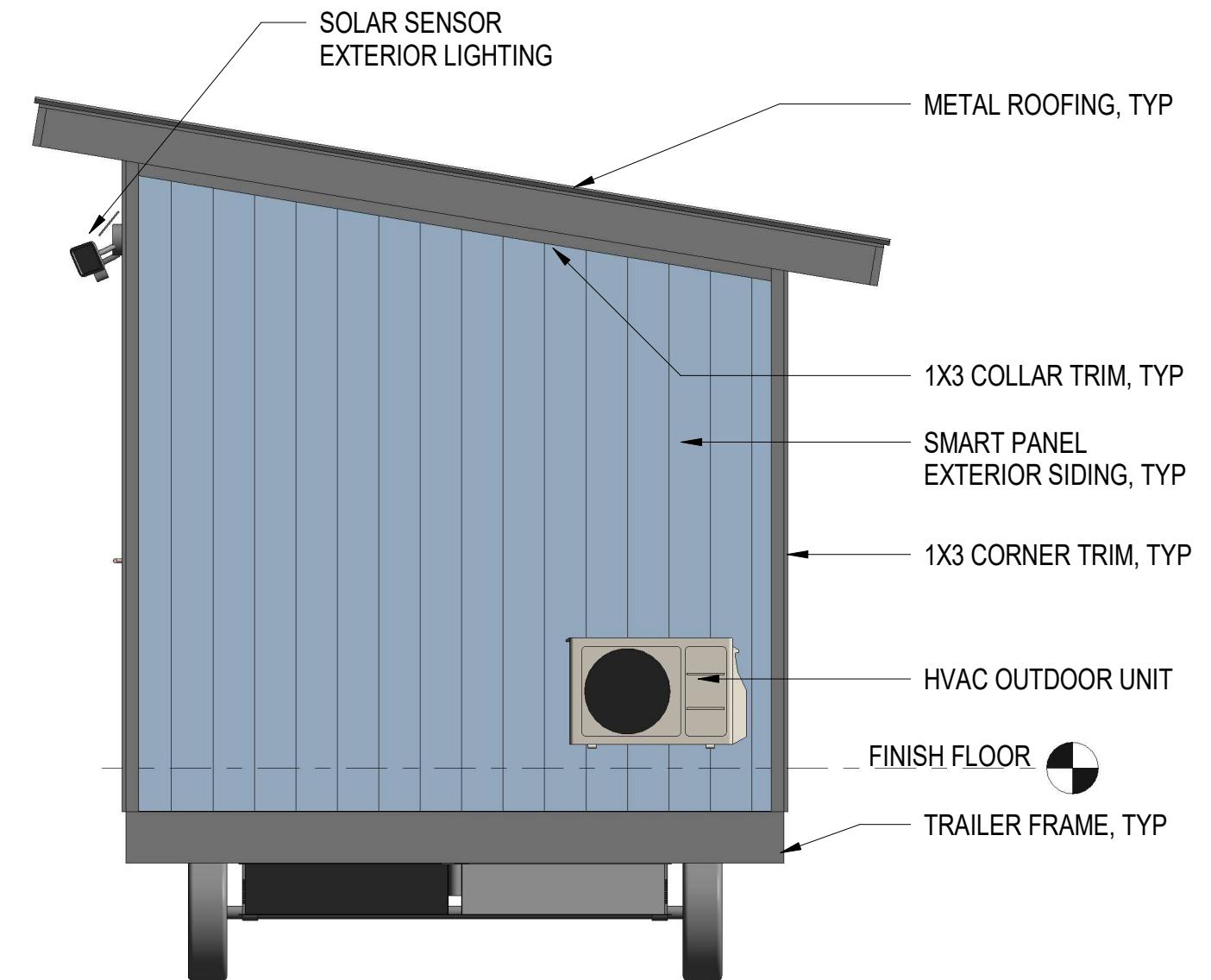
ENGINEER'S OFFICE TRAILER 2 SOUTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A2.04



② ENGINEER'S OFFICE TRAILER 2 EAST  
ELEVATION  
 $3/8" = 1'-0"$



① ENGINEER'S OFFICE TRAILER 2 WEST  
ELEVATION  
 $3/8" = 1'-0"$

**NAN INC.**

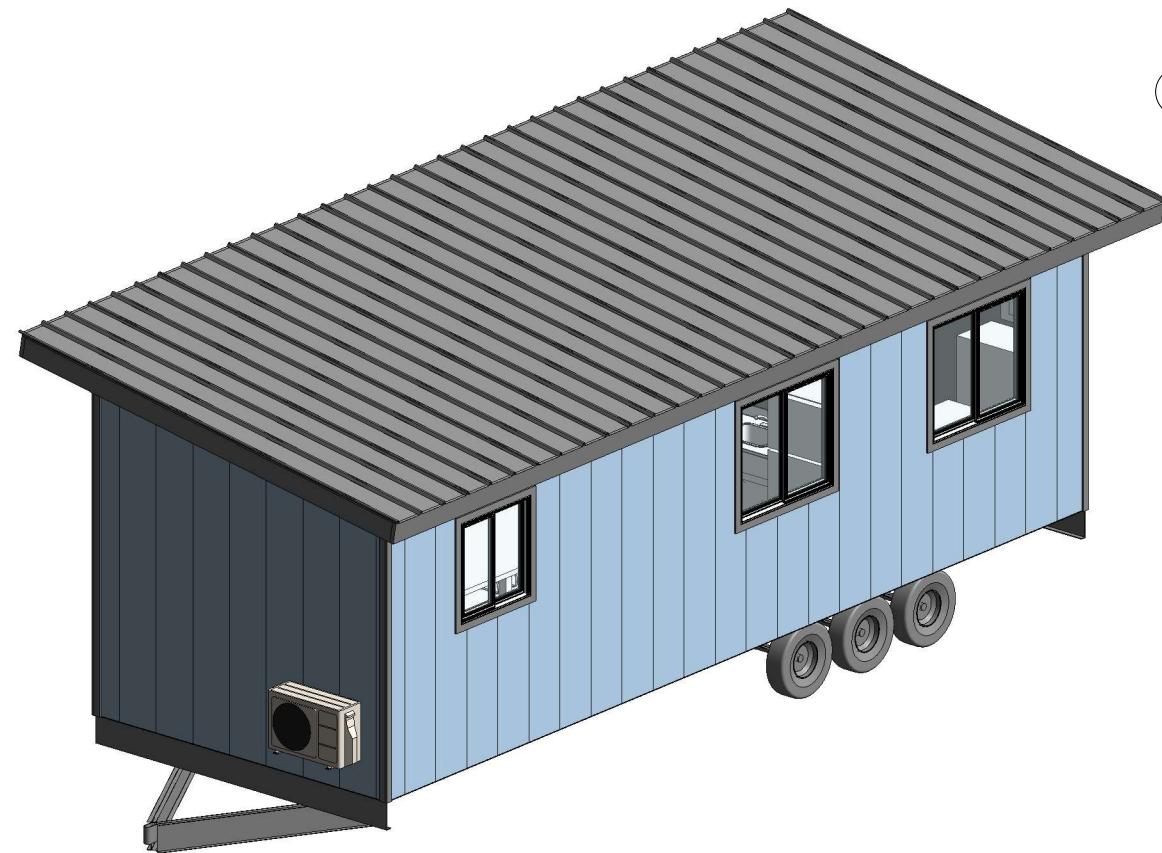
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

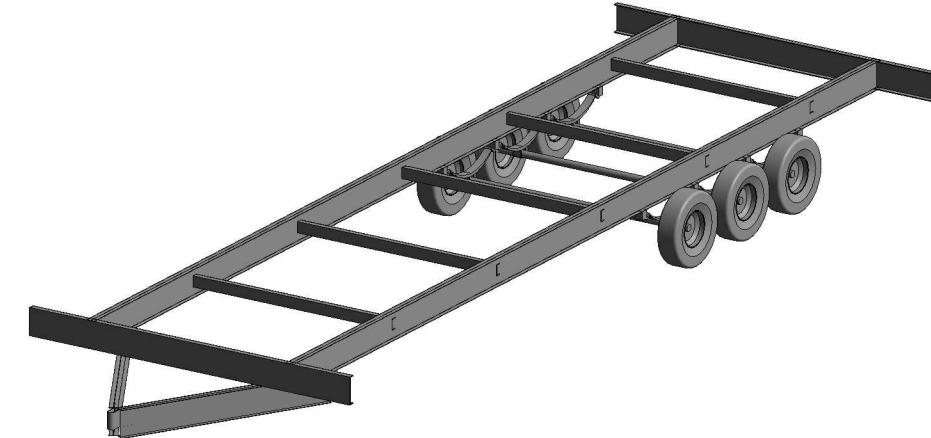
ENGINEER'S OFFICE TRAILER 2 ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A2.05



VIEW OF THE SOUTHWEST CORNER -  
ENGINEER'S TRAILER 2  
NOT TO SCALE



① VIEW OF ENGINEER'S TRAILER 2 ONLY  
NOT TO SCALE



VIEW OF THE NORTHEAST CORNER -  
ENGINEER'S TRAILER 2  
NOT TO SCALE

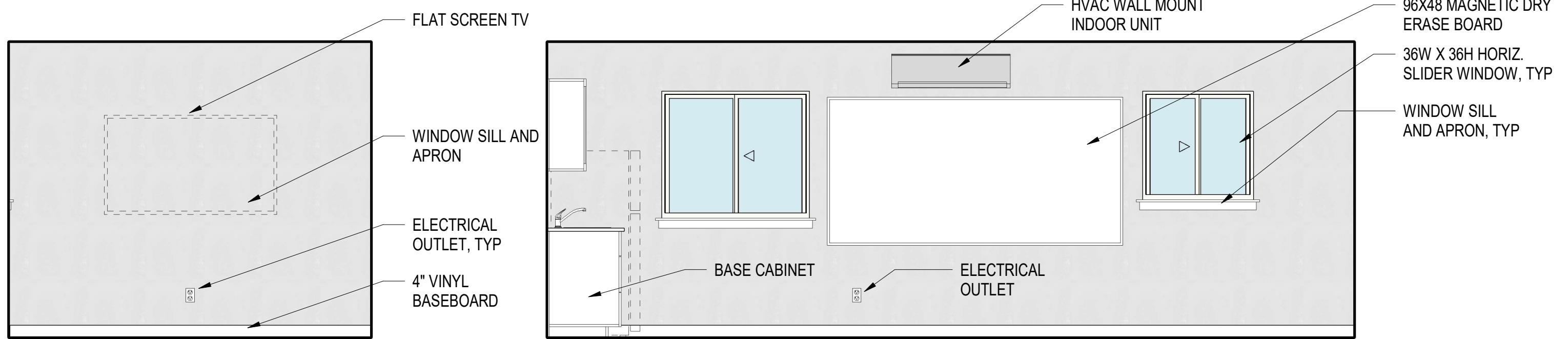
**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

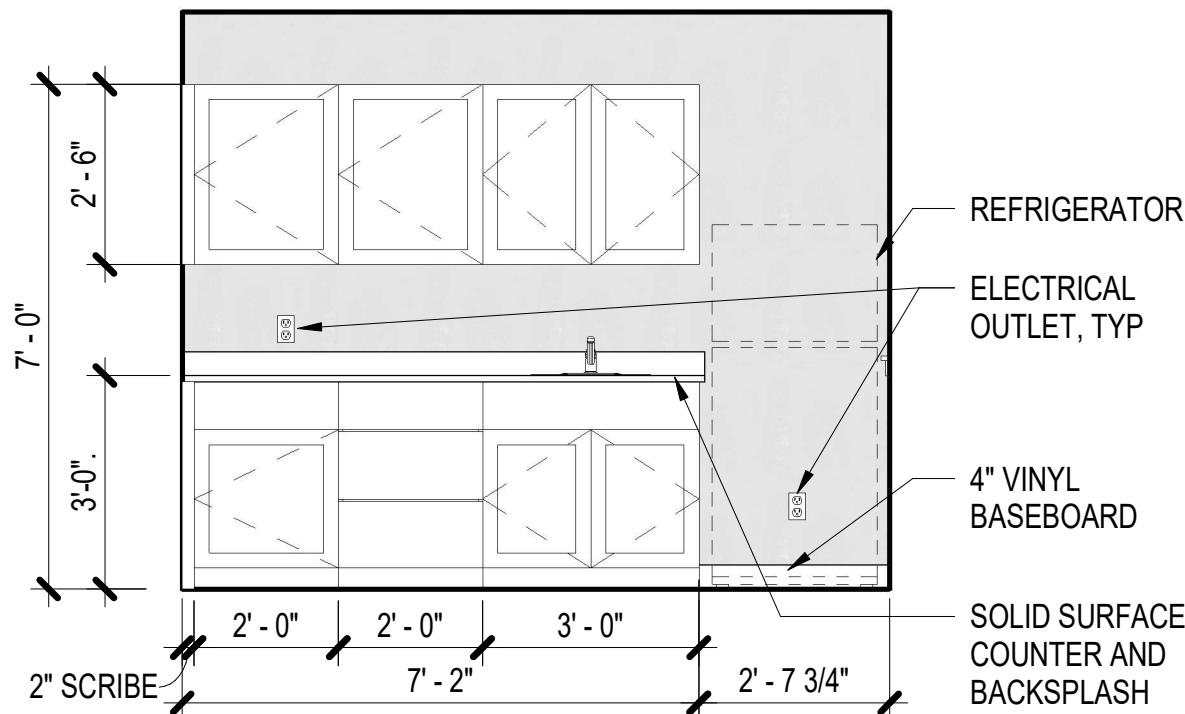
No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 - AXONOMETRIC DRAWINGS	
Project number	004
Date	MAY 2, 2025
Drawn by	Author
Checked by	Checker
Scale	AS NOTED

A2.06

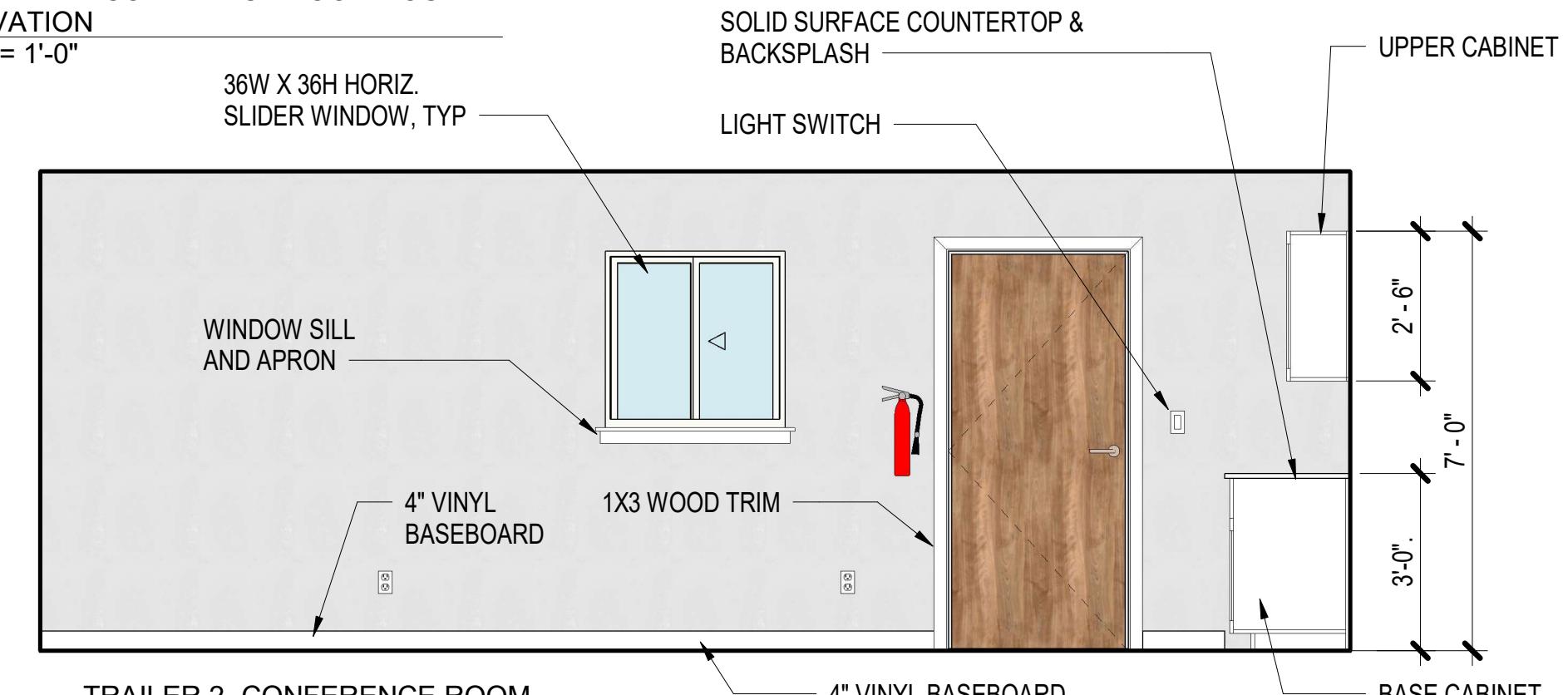


④ TRAILER 2 - CONFERENCE ROOM WEST  
ELEVATION  
 $3/8" = 1'-0"$



② TRAILER 2 - CONFERENCE ROOM EAST  
ELEVATION  
 $3/8" = 1'-0"$

③ TRAILER 2 - CONFERENCE ROOM SOUTH  
ELEVATION  
 $3/8" = 1'-0"$



① TRAILER 2 - CONFERENCE ROOM  
NORTH ELEVATION  
 $3/8" = 1'-0"$

**NAN INC.**

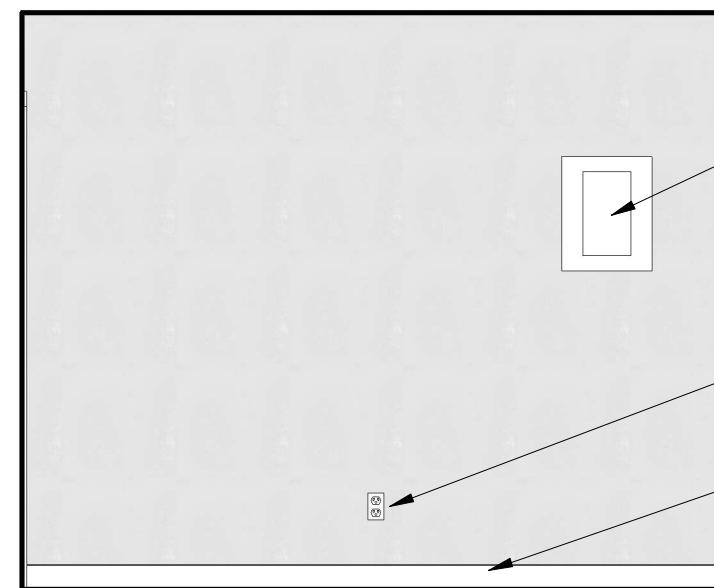
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 - INTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--
Scale	AS NOTED

A2.07

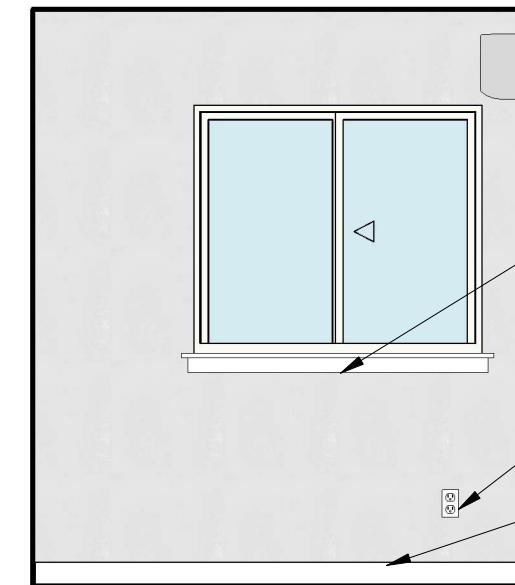


③ TRAILER 2 - OFFICE EAST ELEVATION  
3/8" = 1'-0"

ELECTRICAL PANEL

ELECTRICAL OUTLET, TYP

4" VINYL BASEBOARD



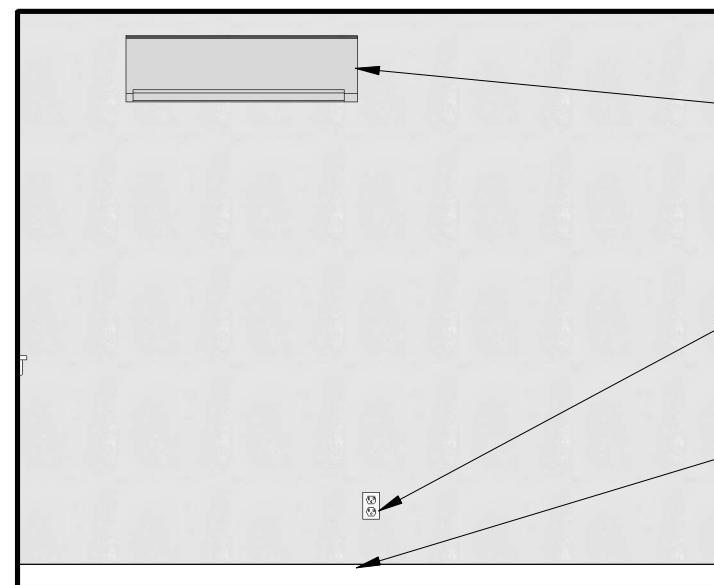
② TRAILER 2 - OFFICE SOUTH ELEVATION  
3/8" = 1'-0"

HVAC WALL MOUNT INDOOR UNIT

WINDOW SILL AND APRON

ELECTRICAL OUTLET, TYP

4" VINYL BASEBOARD

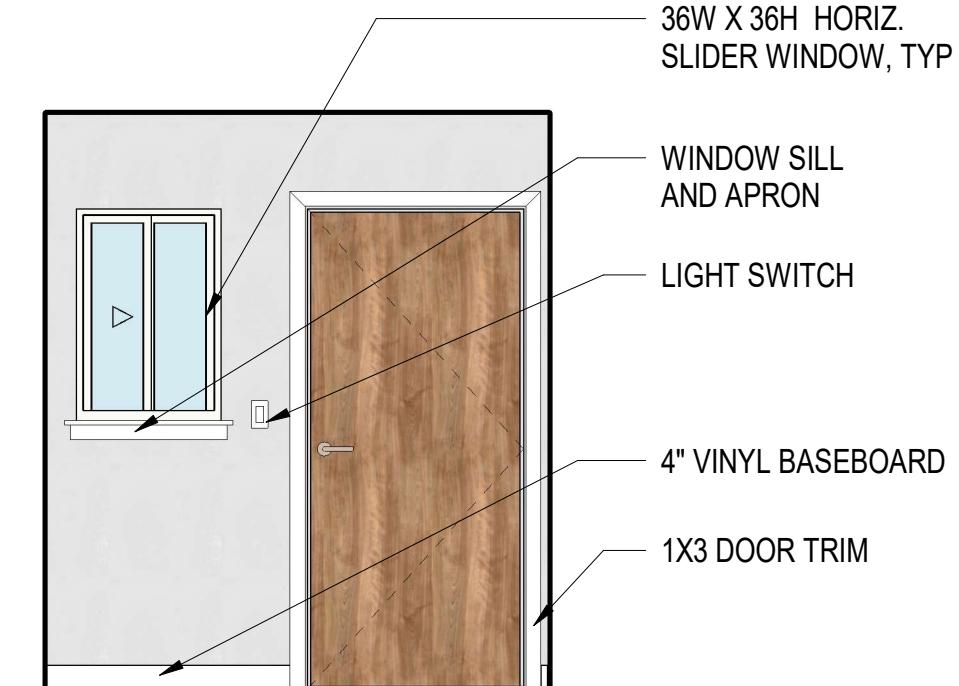


④ TRAILER 2 - OFFICE WEST ELEVATION  
3/8" = 1'-0"

HVAC WALL MOUNT INDOOR UNIT

ELECTRICAL OUTLET, TYP

4" VINYL BASEBOARD



① TRAILER 2 - OFFICE NORTH ELEVATION  
3/8" = 1'-0"

36W X 36H HORIZ. SLIDER WINDOW, TYP

WINDOW SILL AND APRON

LIGHT SWITCH

4" VINYL BASEBOARD

1X3 DOOR TRIM

**NAN INC.**

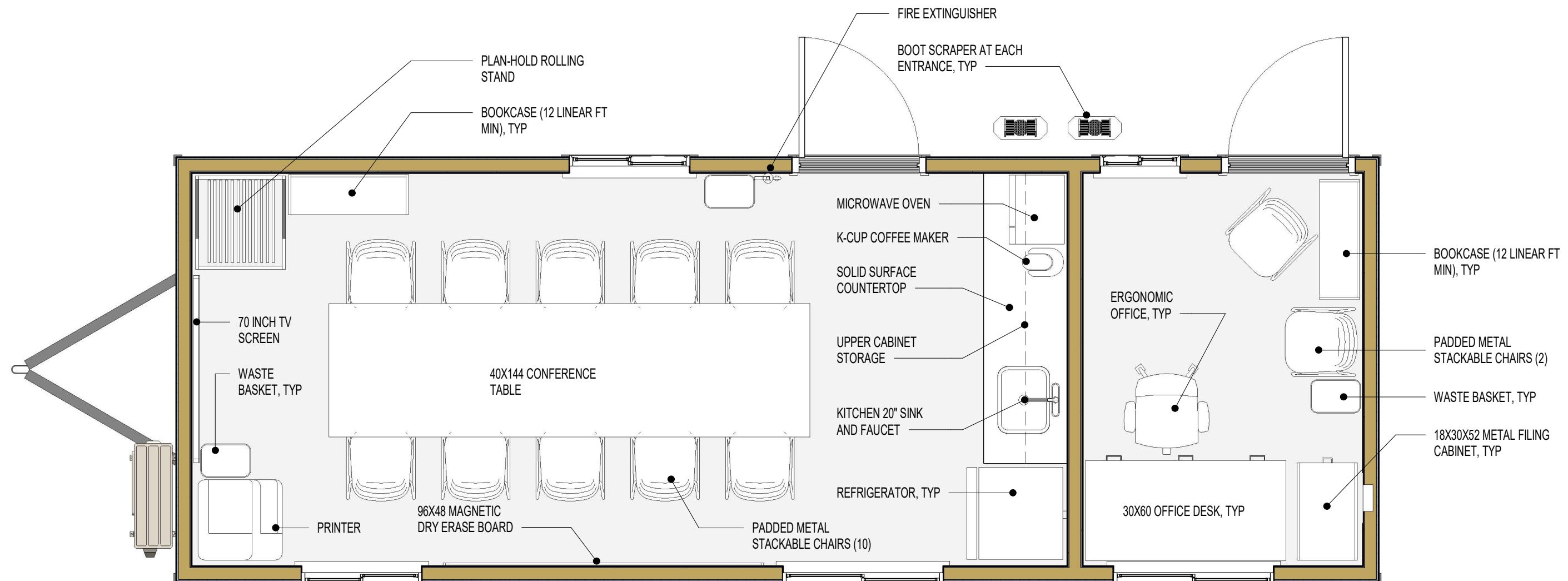
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

ENGINEER'S OFFICE TRAILER 2 - INTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A2.08



① ENGINEER'S OFFICE TRAILER 2  
FURNITURE & EQUIPMENT PLAN  
3/8" = 1'-0"

**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

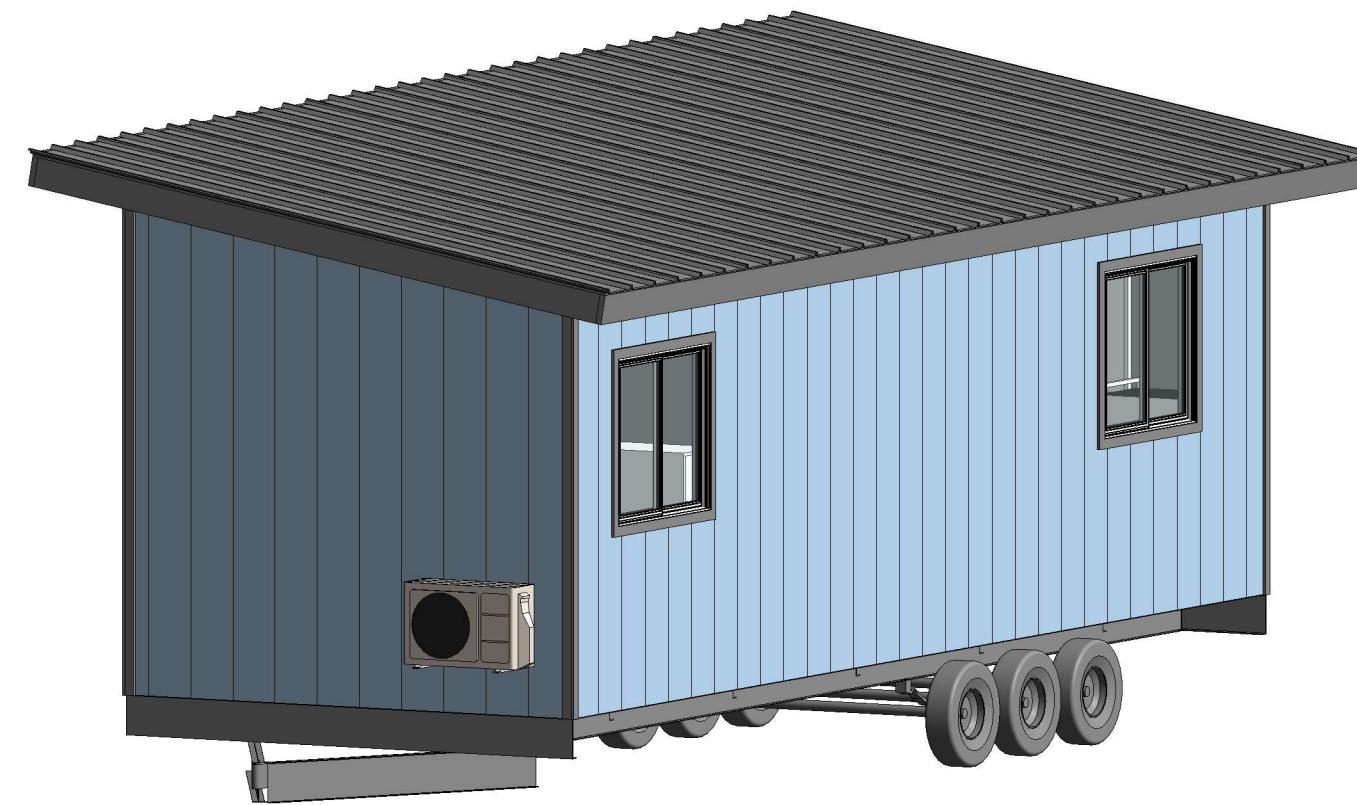
ENGINEER'S OFFICE TRAILER 2 - FURNITURE & EQUIPMENT PLAN	
Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--
Scale	AS NOTED

**A2.09**

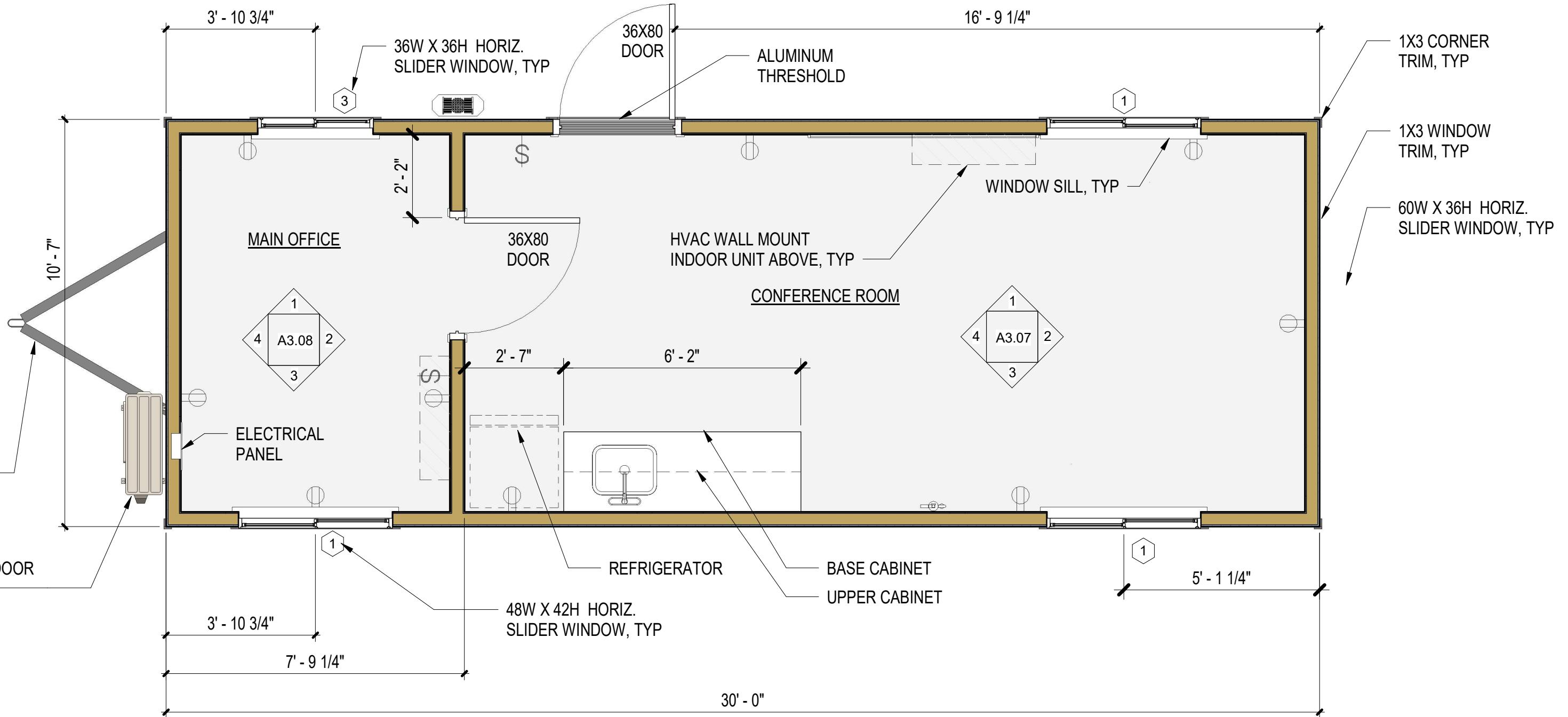
# **HILO WASTE WATER TREATMENT PLANT**

## **FIELD OFFICE DESIGN PACKAGE**

### **SUBMITTAL**



**OWNER'S TRAILER**



**NAN INC.**

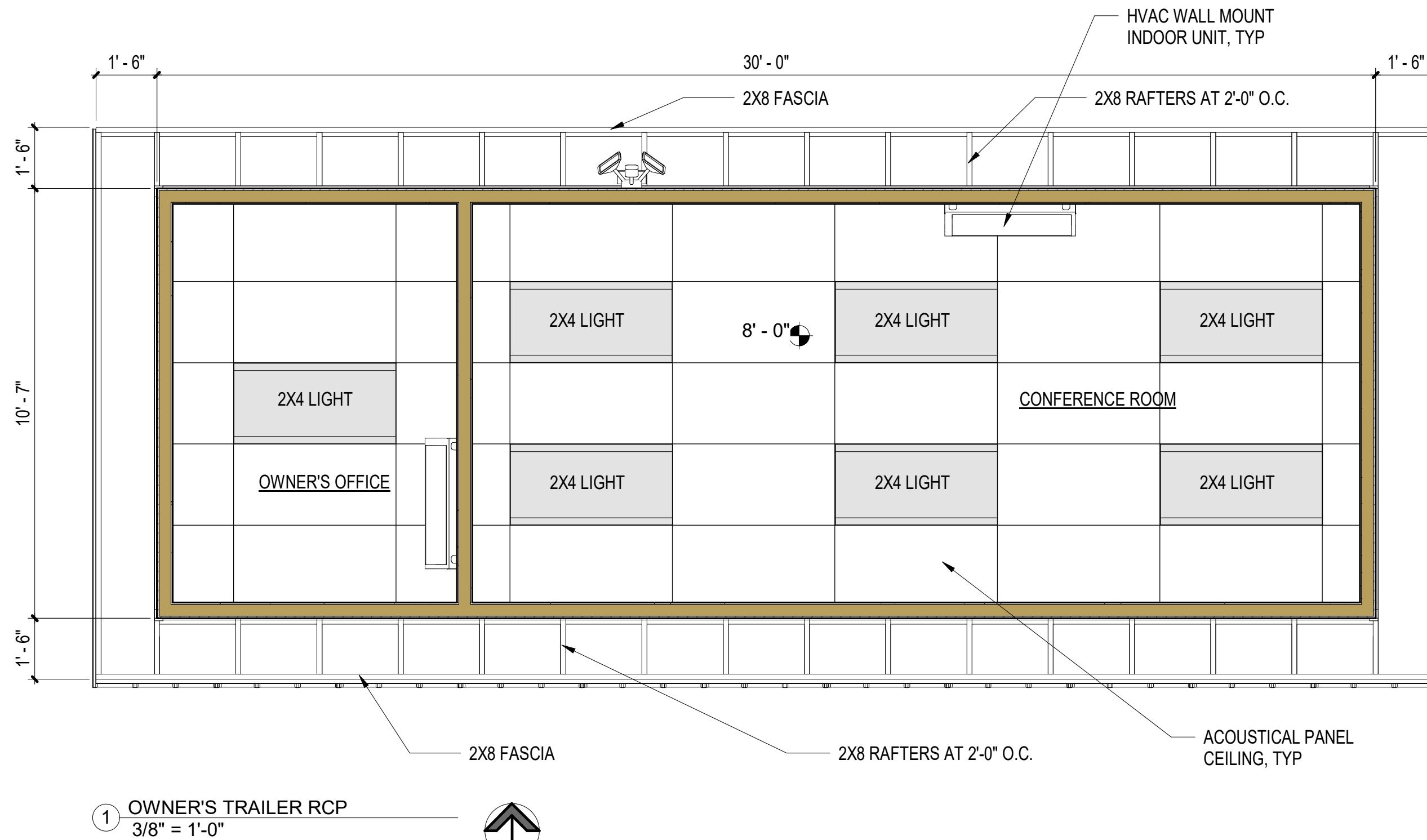
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A3.01**



① OWNER'S TRAILER RCP  
3/8" = 1'-0"



**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER RCP

Project number	004
Date	MAY 2, 2025
Drawn by	Author
Checked by	Checker

**A3.02**



① OWNER'S TRAILER NORTH ELEVATION  
3/8" = 1'-0"

**NAN INC.**

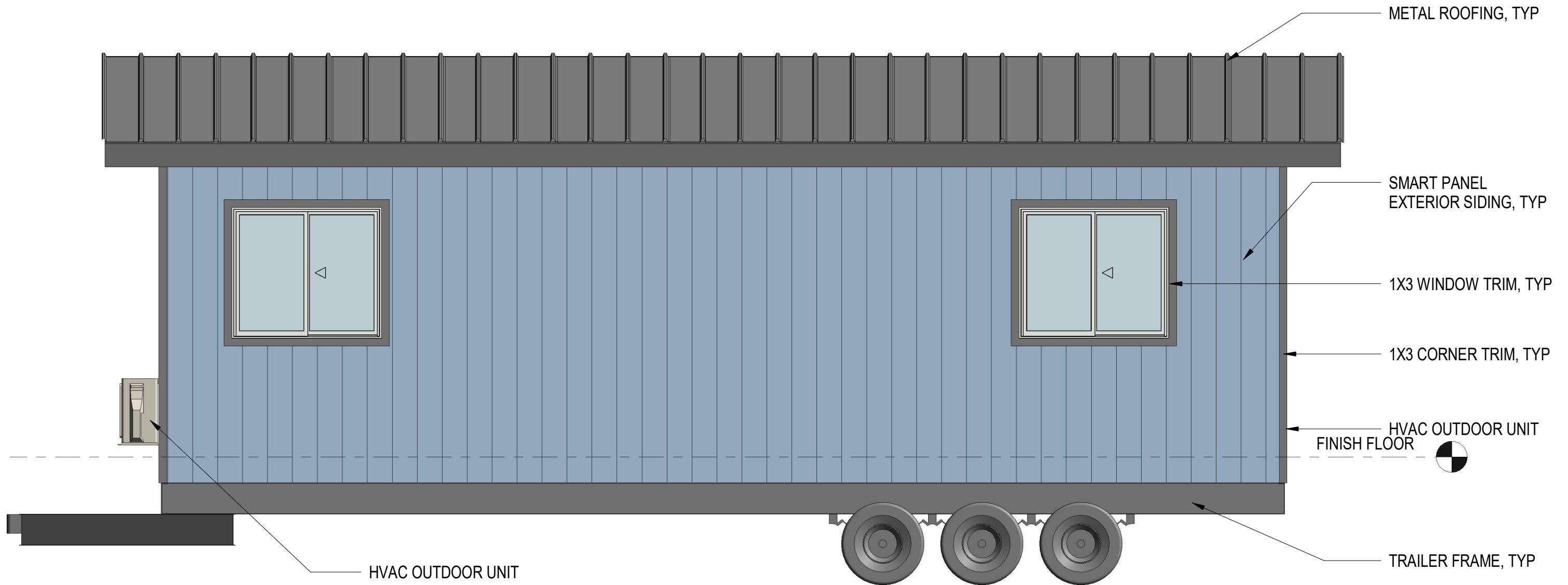
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER NORTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A3.03**



① OWNER'S TRAILER SOUTH ELEVATION  
3/8" = 1'-0"

**NAN INC.**

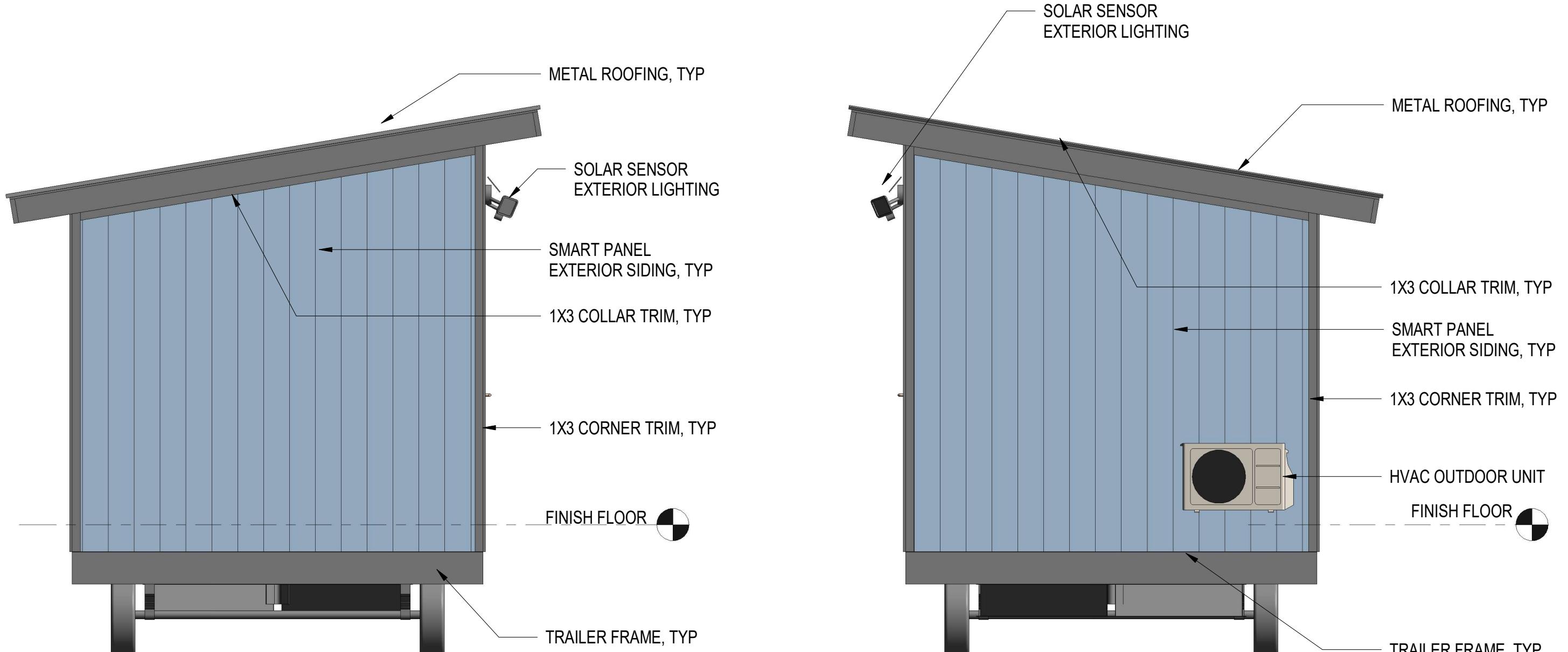
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER SOUTH ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A3.04**



**NAN INC.**

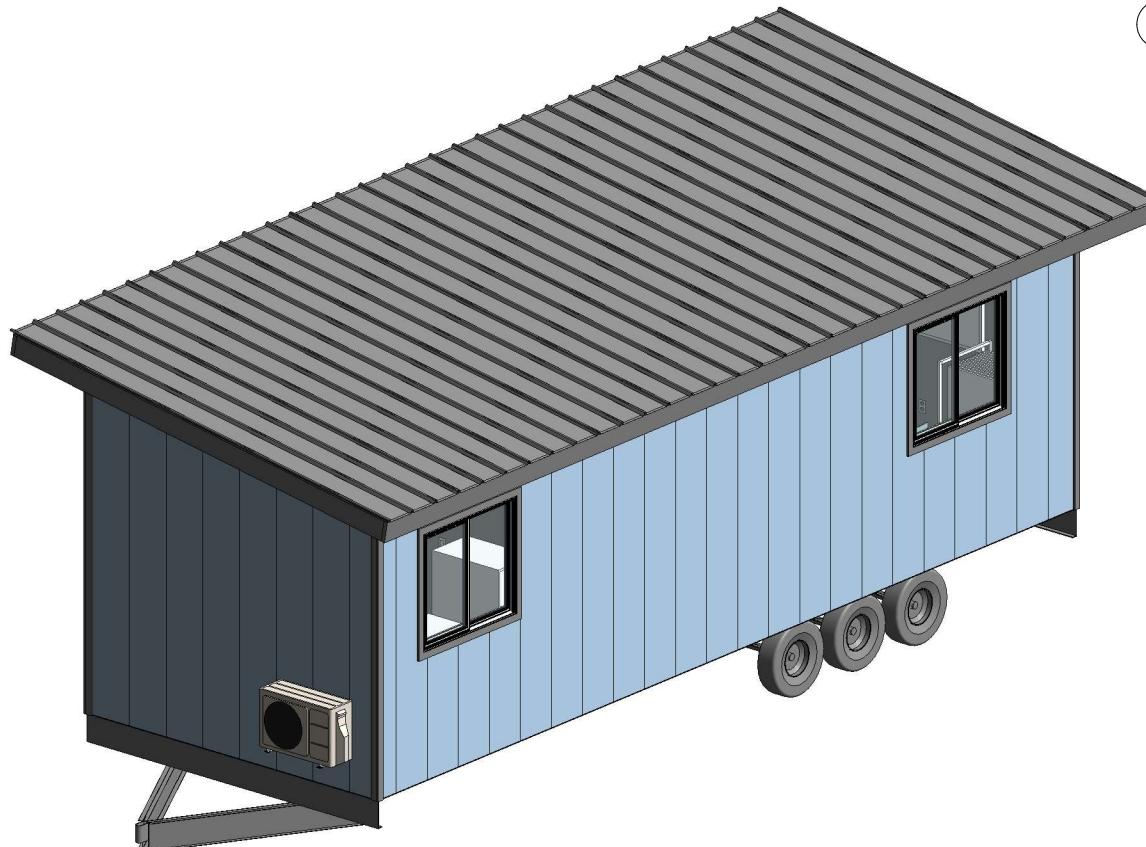
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A3.05**



VIEW OF THE SOUTHWEST CORNER -  
② OWNER TRAILER  
NOT TO SCALE



③ VIEW OF OWNER TRAILER ONLY  
NOT TO SCALE



VIEW OF THE NORTHEAST CORNER -  
① OWNER TRAILER  
NOT TO SCALE

**NAN INC.**

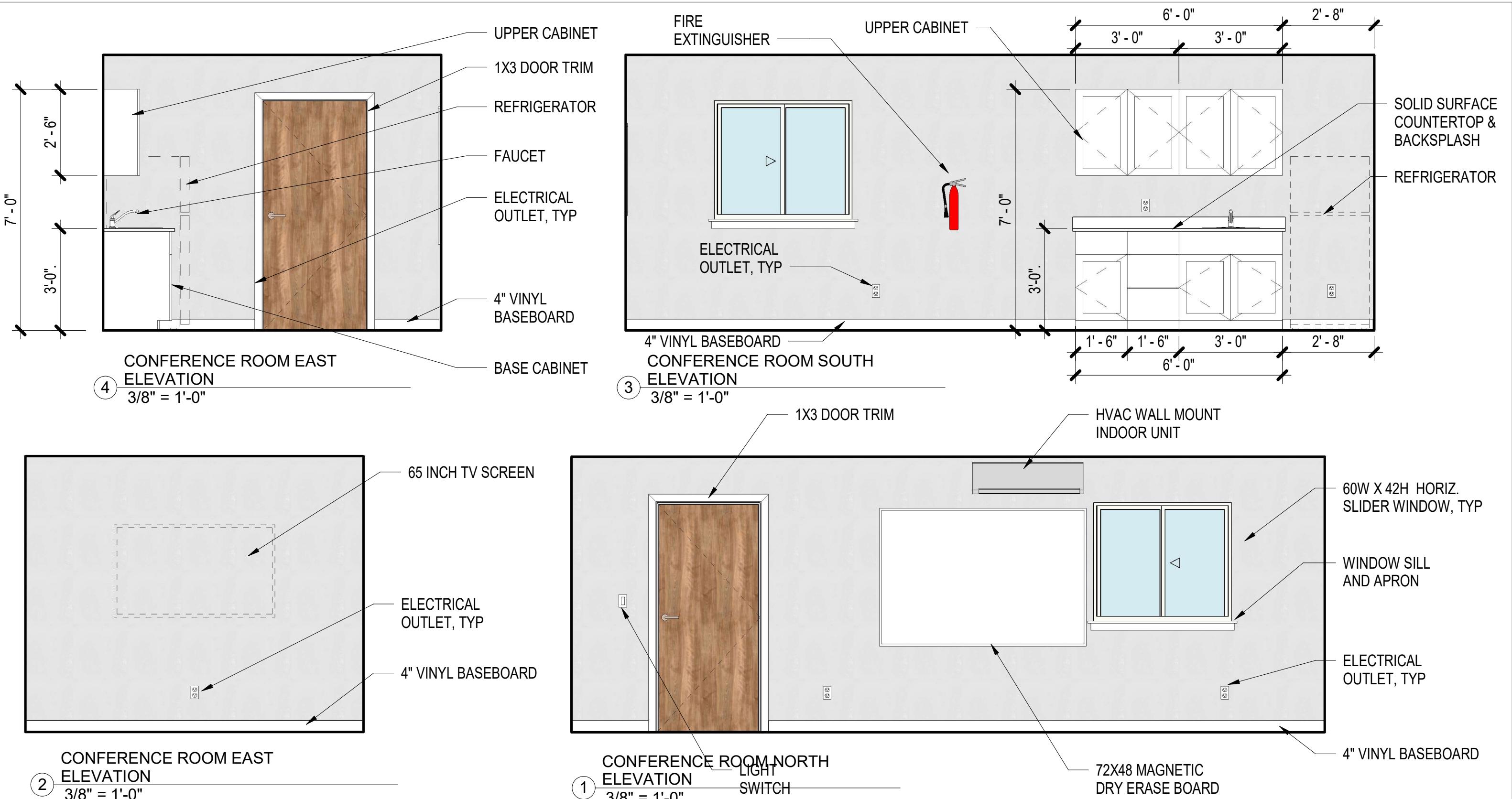
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER - AXONOMETRIC DRAWINGS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A3.06



**NAN INC.**

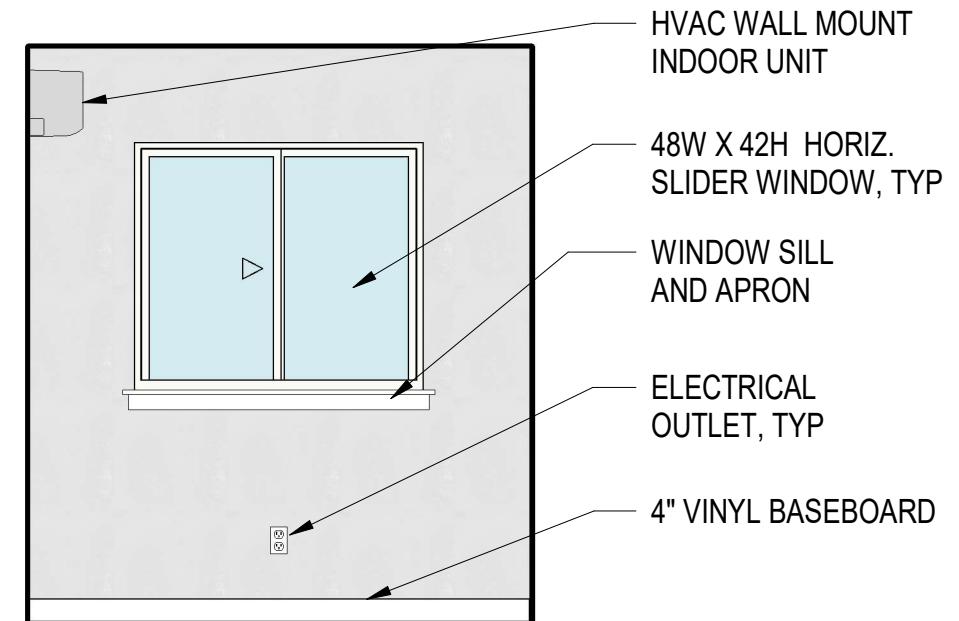
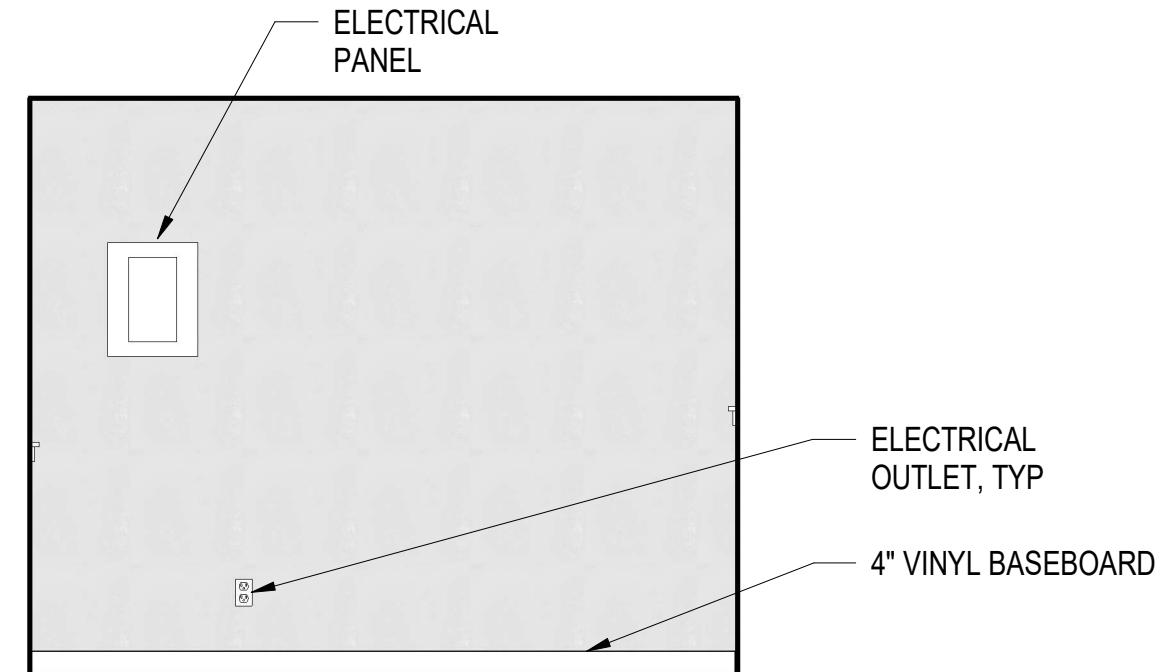
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

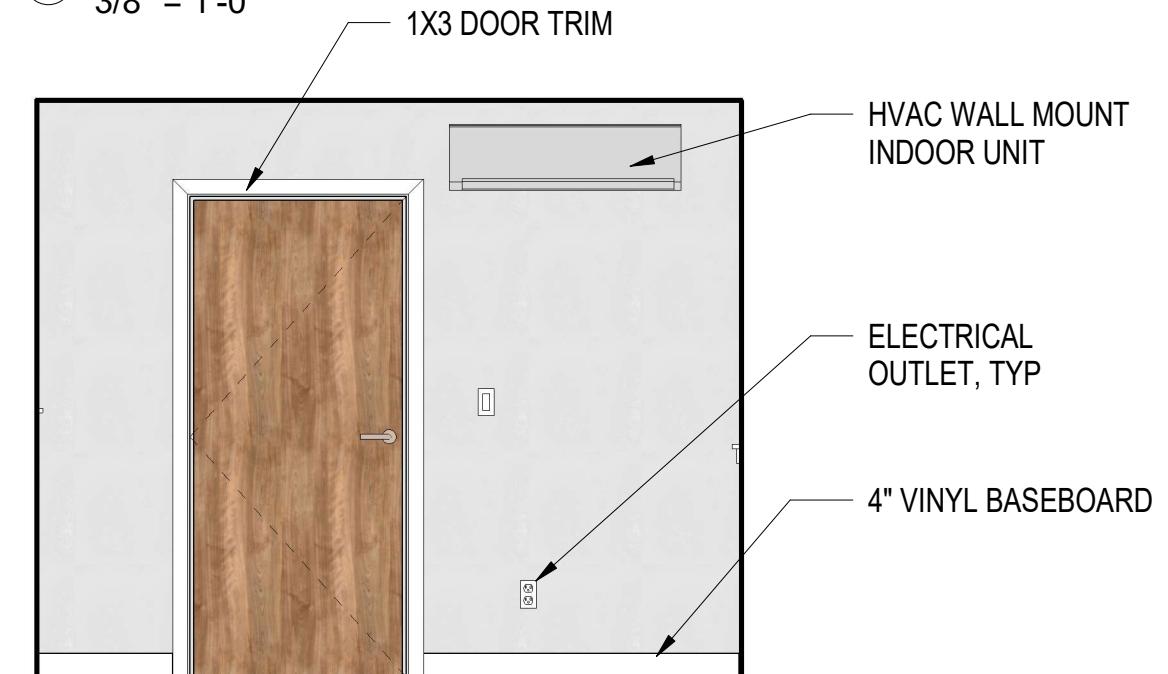
OWNER'S TRAILER INTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

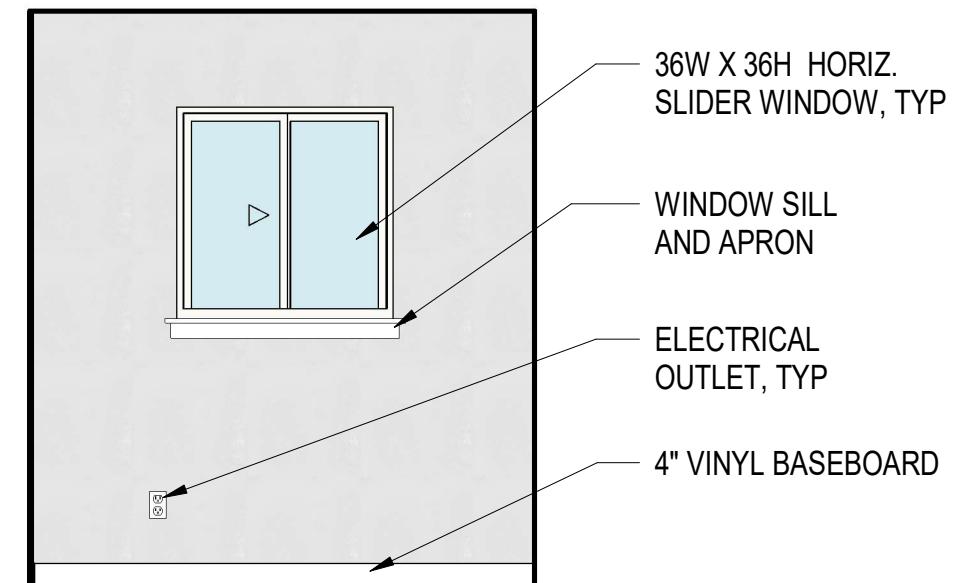
**A3.07**



④ MAIN OFFICE WEST ELEVATION  
3/8" = 1'-0"



③ MAIN OFFICE SOUTH ELEVATION  
3/8" = 1'-0"



② MAIN OFFICE EAST ELEVATION  
3/8" = 1'-0"

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

① MAIN OFFICE NORTH ELEVATION  
3/8" = 1'-0"

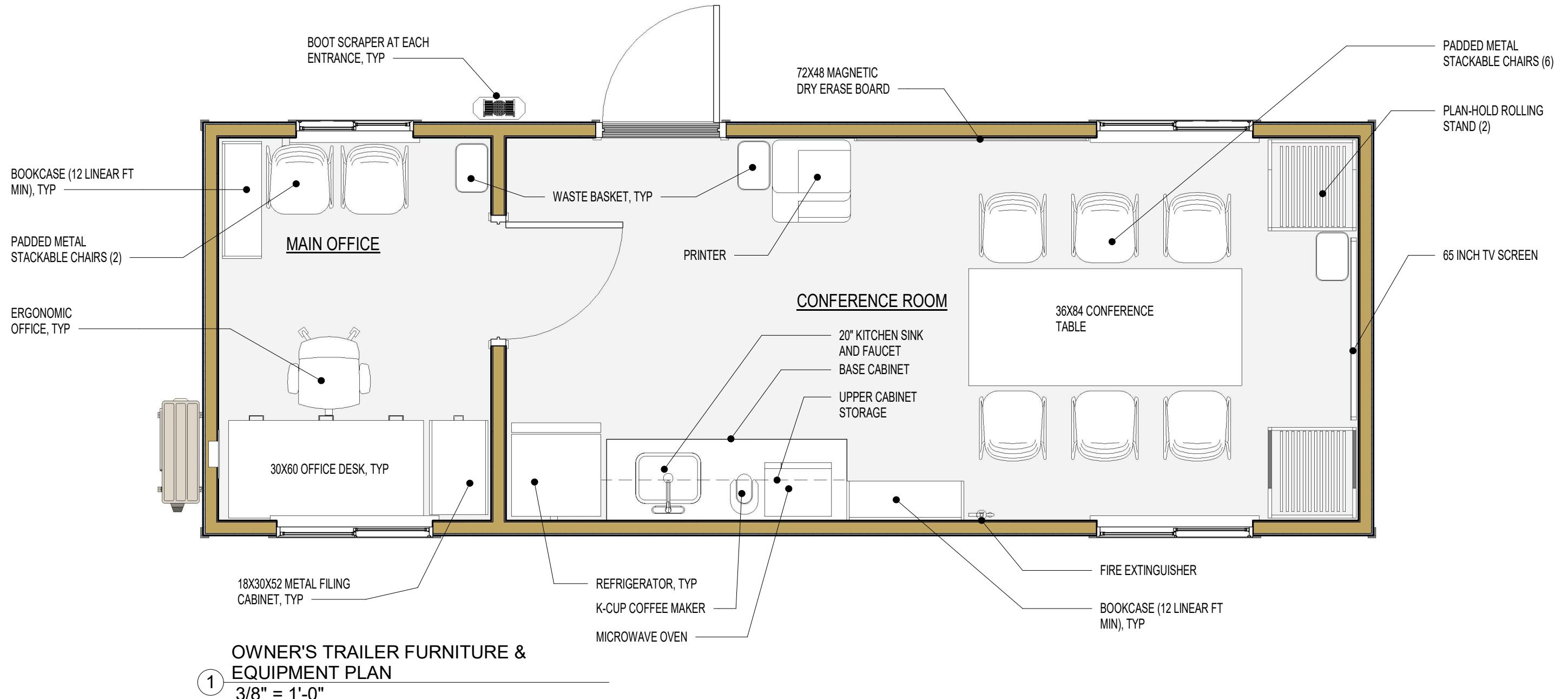
No.	Description	Date

OWNER'S TRAILER INTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A3.08

**NAN INC.**



**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OWNER'S TRAILER FURNITURE & EQUIPMENT PLAN

Project number	004	A3.09
Date	MAY 2, 2025	
Drawn by	Author	
Checked by	Checker	Scale AS NOTED

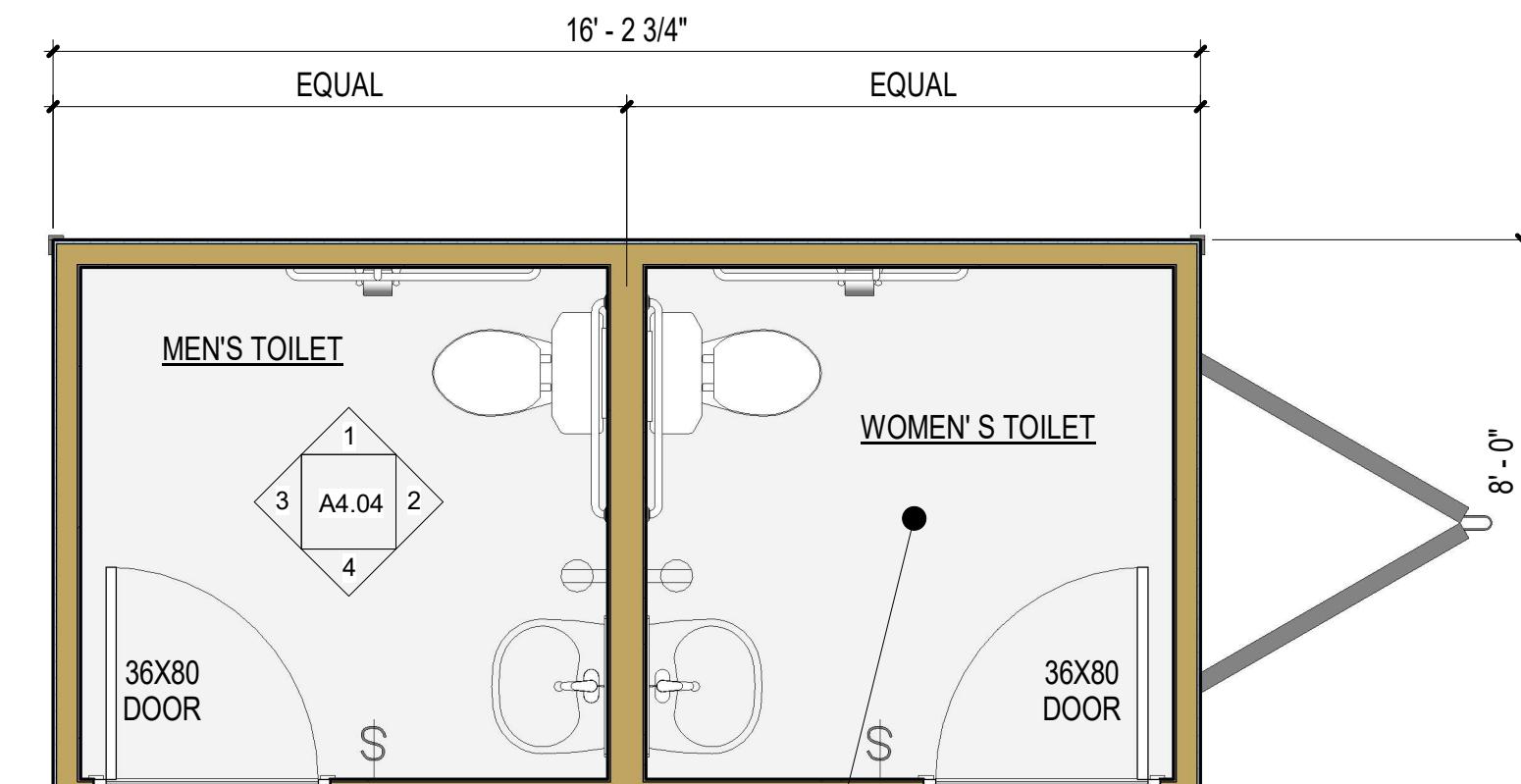
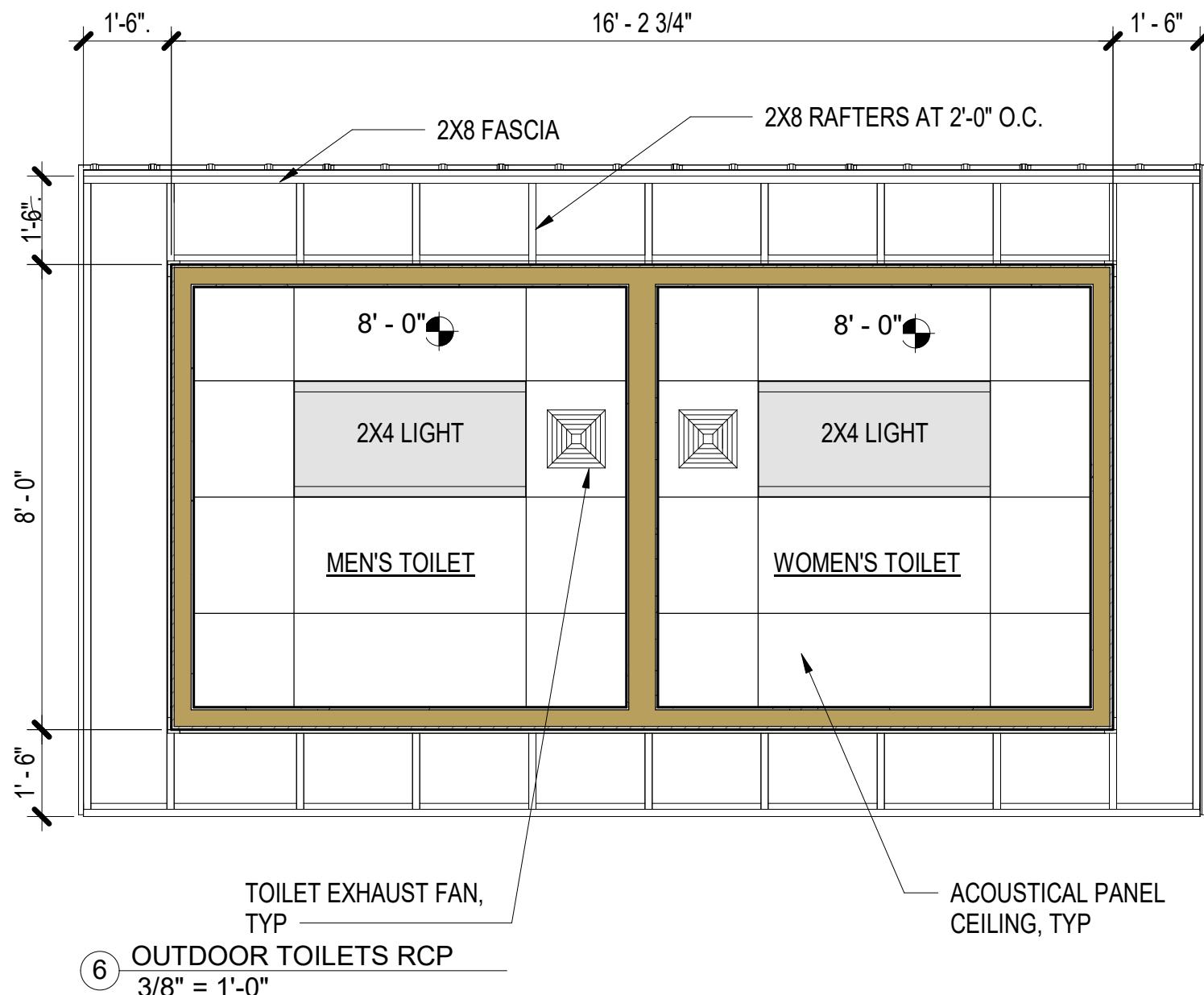
# **HILO WASTE WATER TREATMENT PLANT**

## **FIELD OFFICE DESIGN PACKAGE**

### **SUBMITTAL**



**OUTDOOR TOILETS**



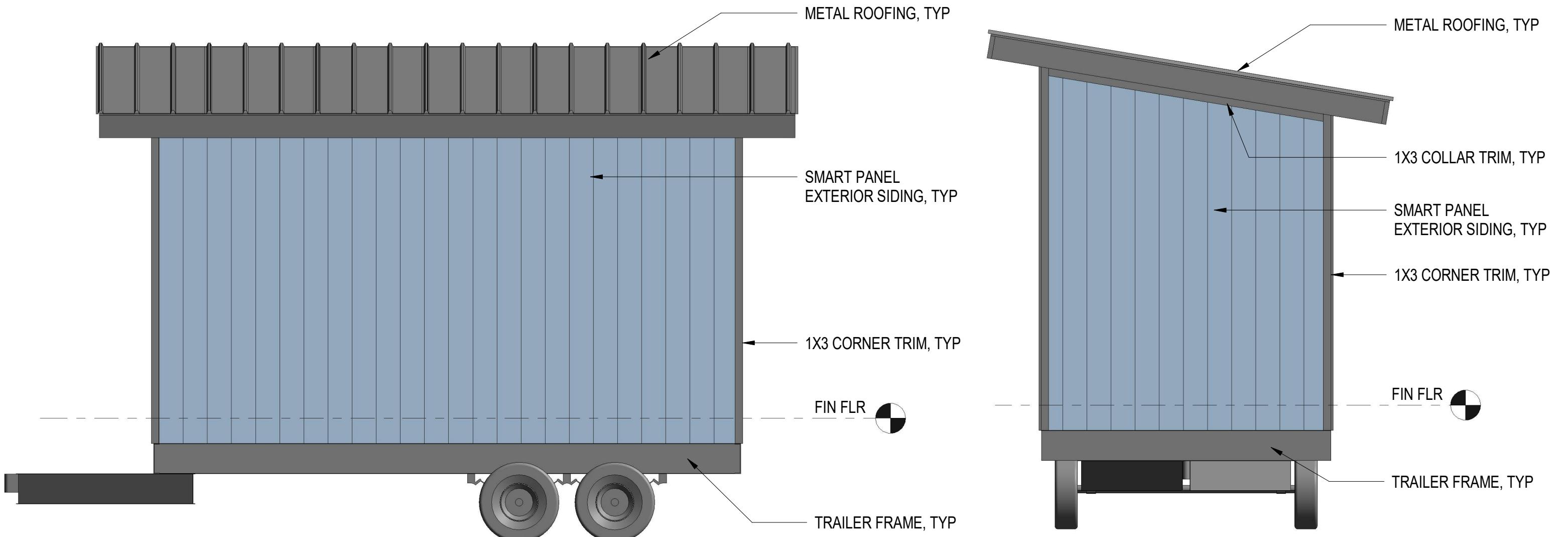
**NAN INC.**

No.	Description	Date

OUTDOOR TOILETS FLOOR PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A4.01**



② OUTDOOR TOILETS NORTH ELEVATION  
3/8" = 1'-0"

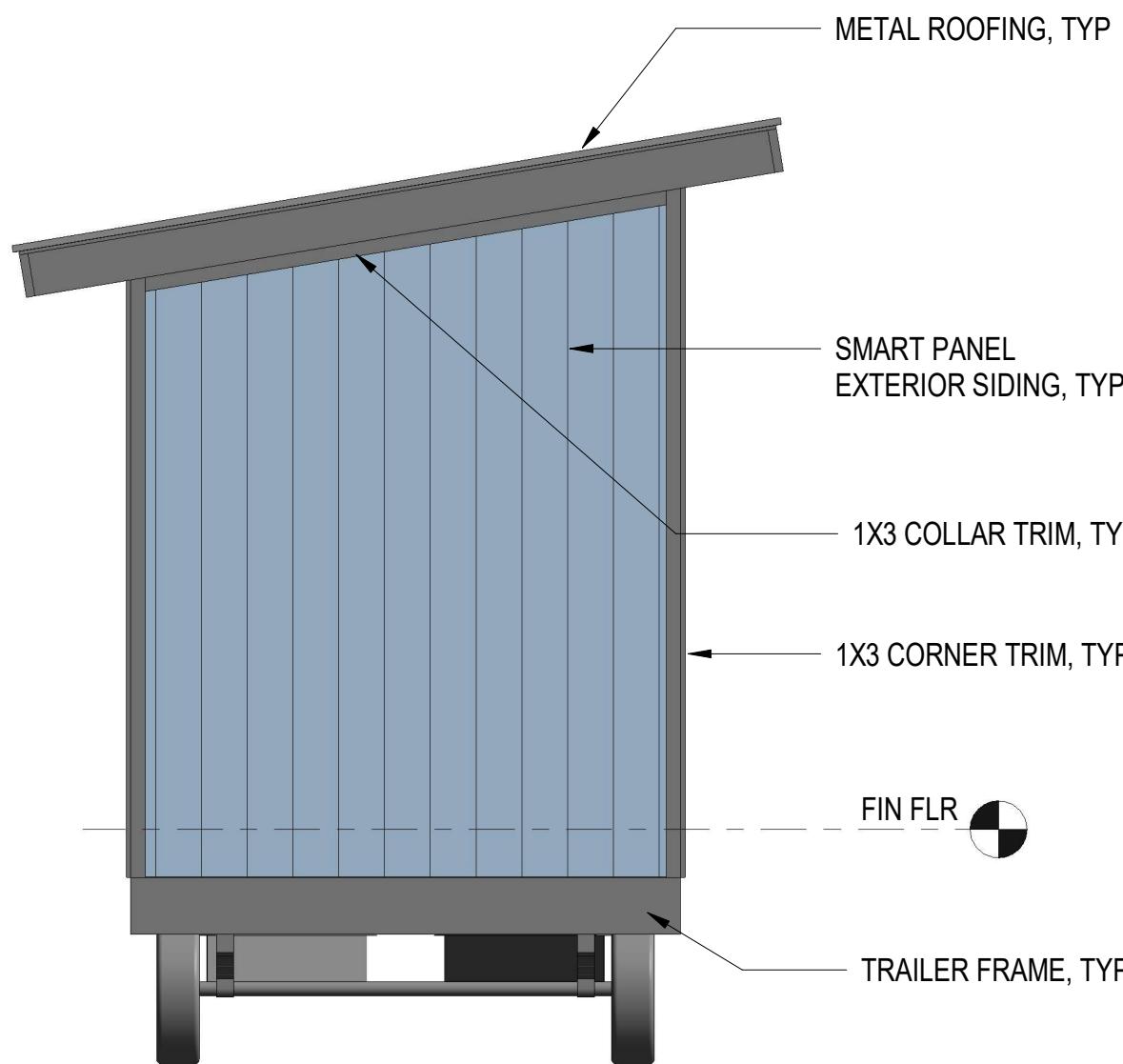
① OUTDOOR TOILETS EAST ELEVATION  
3/8" = 1'-0"

**NAN INC.**

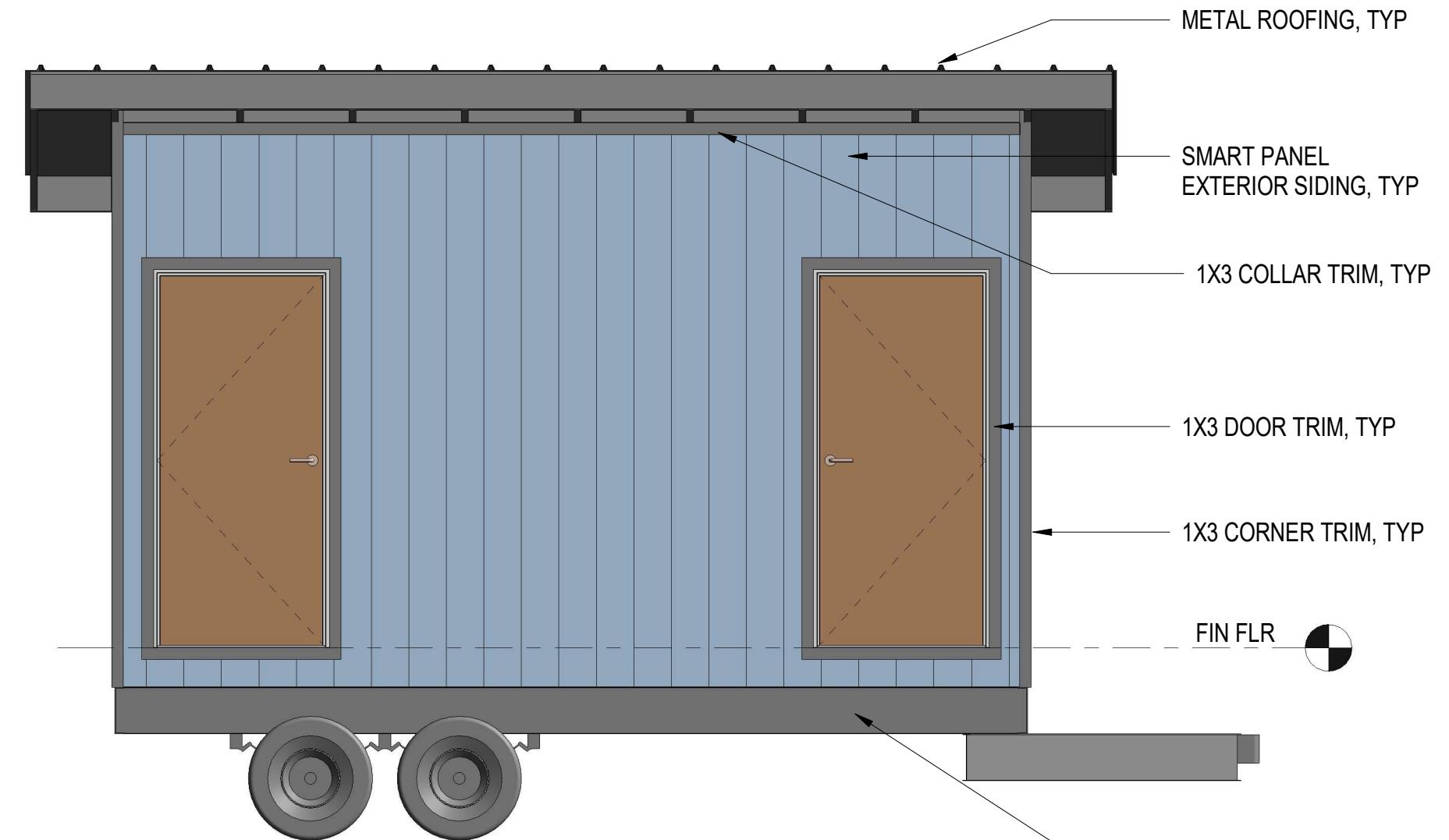


No.	Description	Date

OUTDOOR TOILETS EXTERIOR ELEVATIONS	
Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--
Scale	AS NOTED



② OUTDOOR TOILETS WEST ELEVATION  
3/8" = 1'-0"



① OUTDOOR TOILETS SOUTH ELEVATION  
3/8" = 1'-0"

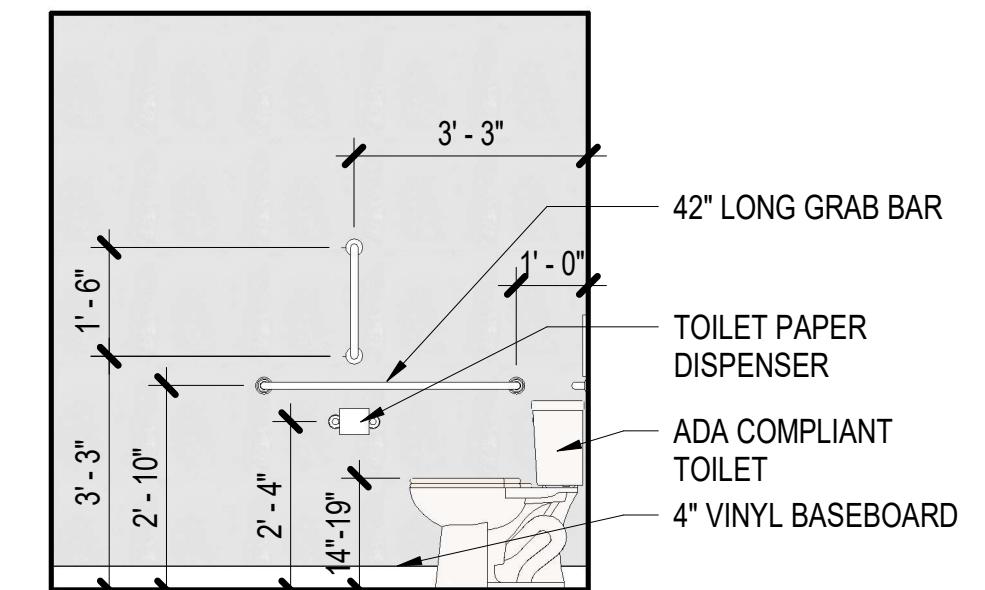
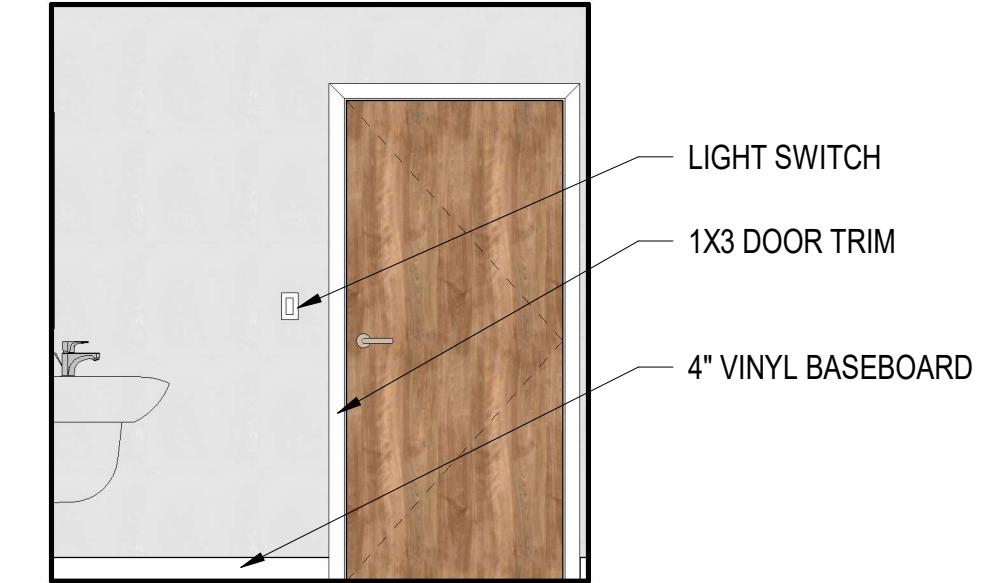
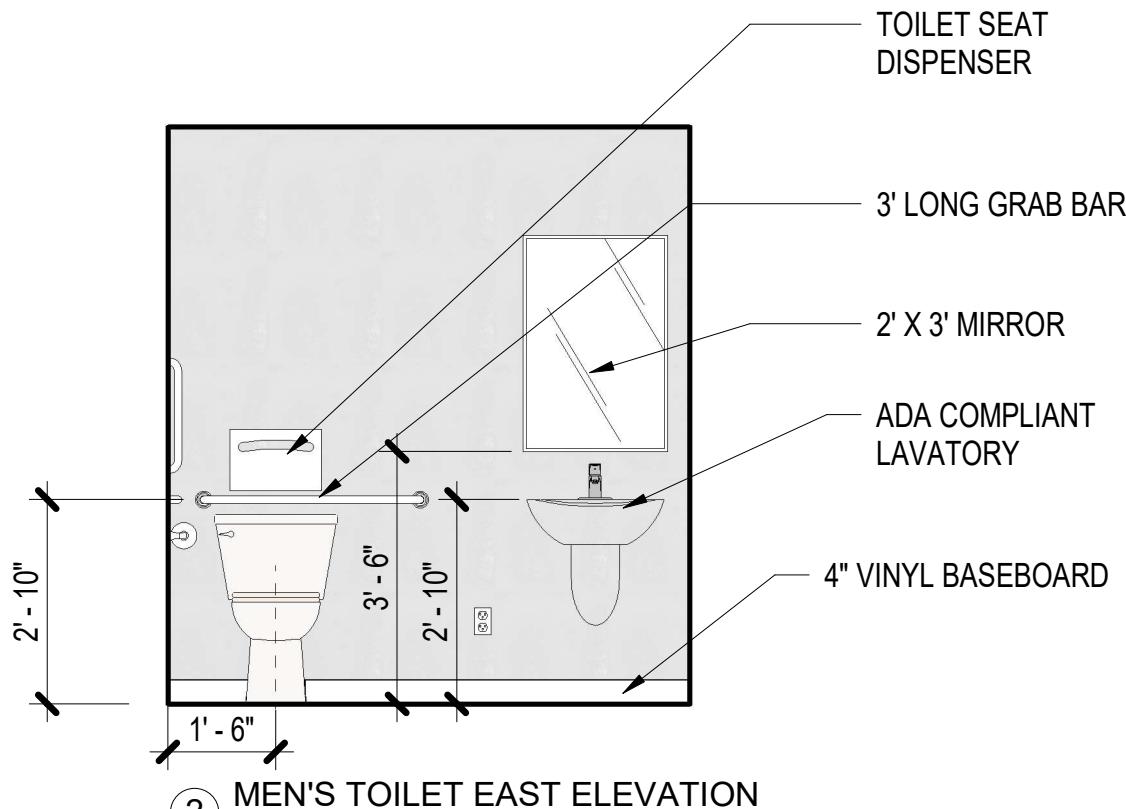
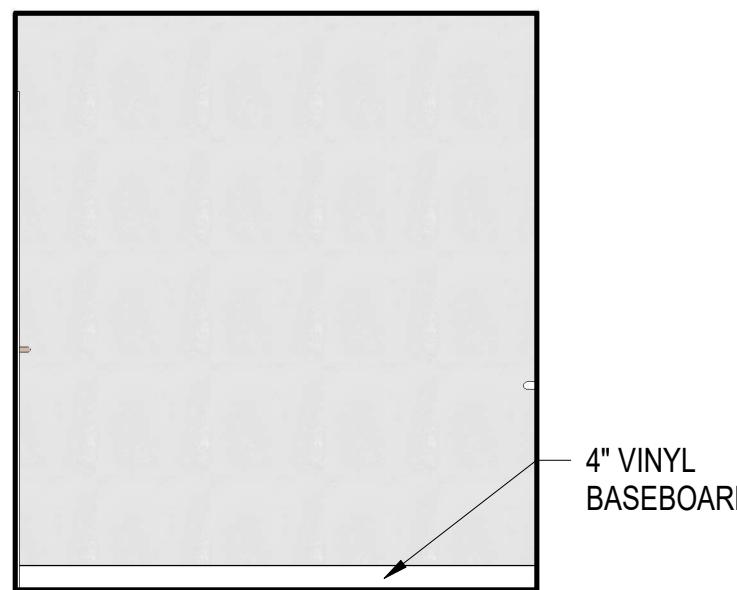
**NAN INC.**

No.	Description	Date

OUTDOOR TOILETS EXTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A4.03**



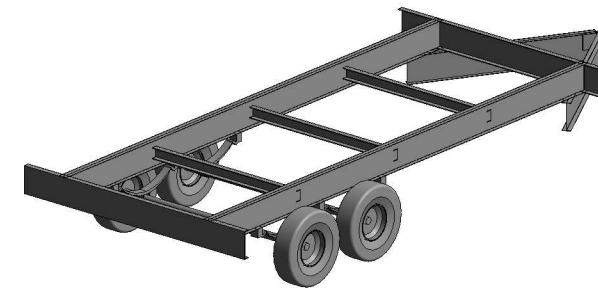
**NAN INC.**

No.	Description	Date

#### OUTDOOR TOILETS - INTERIOR ELEVATIONS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--
Scale	AS NOTED

**A4.04**



VIEW OF THE BATHROOMS TRAILER  
ONLY  
③  
NOT TO SCALE



VIEW OF THE NORTHEAST CORNER -  
BATHROOMS TRAILER  
①  
NOT TO SCALE



VIEW OF THE SOUTHWEST CORNER -  
BATHROOMS TRAILER  
②  
NOT TO SCALE

**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

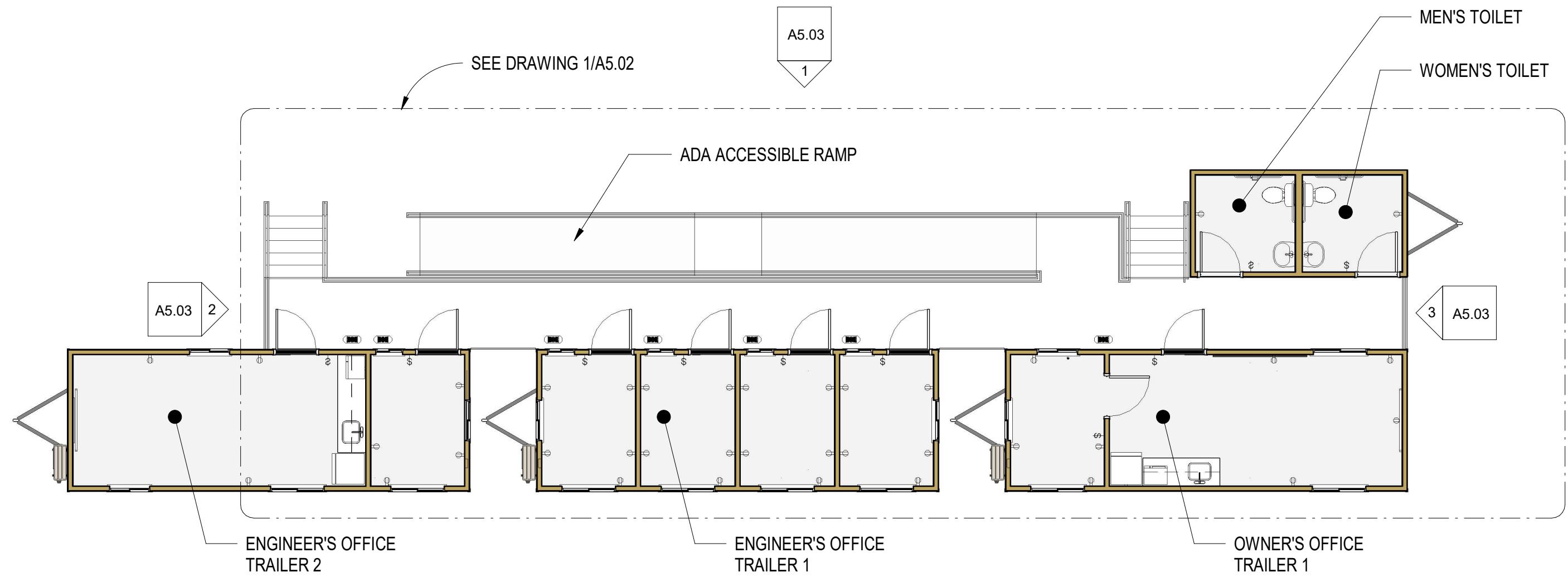
No.	Description	Date

BATHROOMS TRAILER - AXONOMETRIC DRAWINGS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A4.05

Scale AS NOTED



1 OVERALL SITE AND RAMP PLAN  
1/8" = 1'-0"

**NAN INC.**

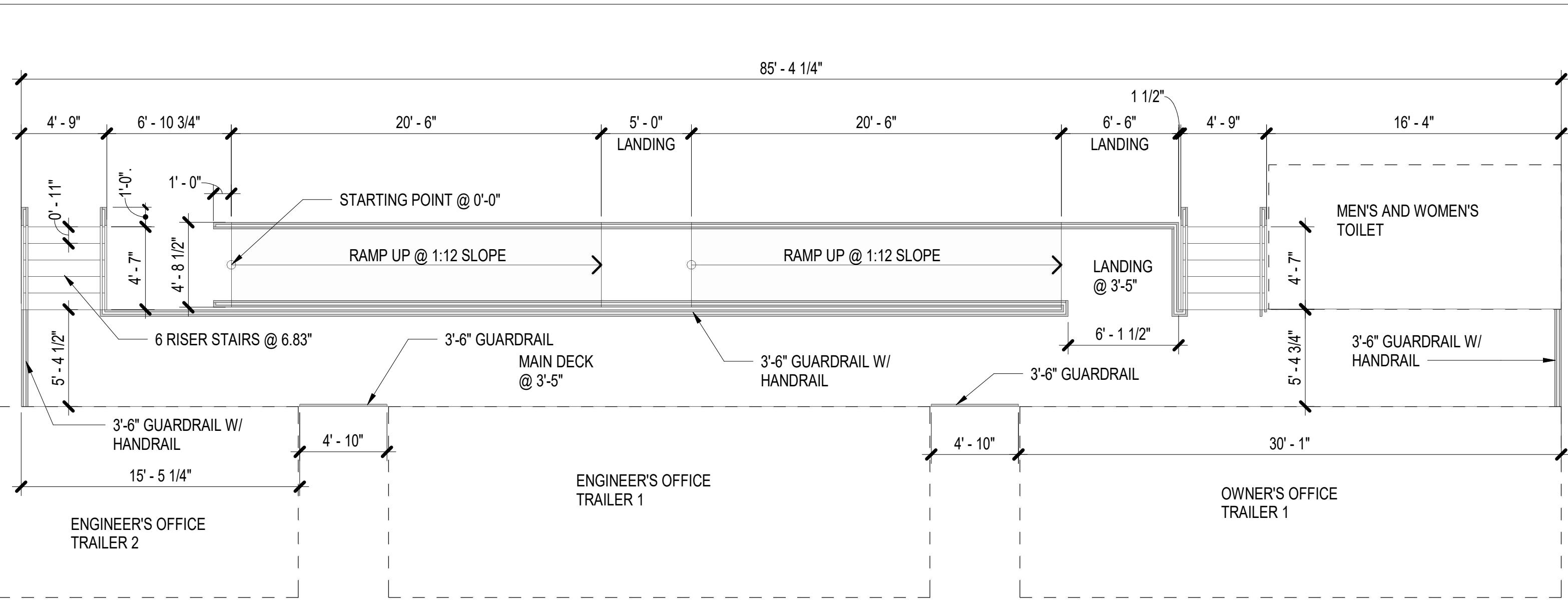
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

OVERALL/RAMP PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A5.01**



① RAMP AND STAIR PLAN

3/16" = 1'-0"

**NAN INC.**

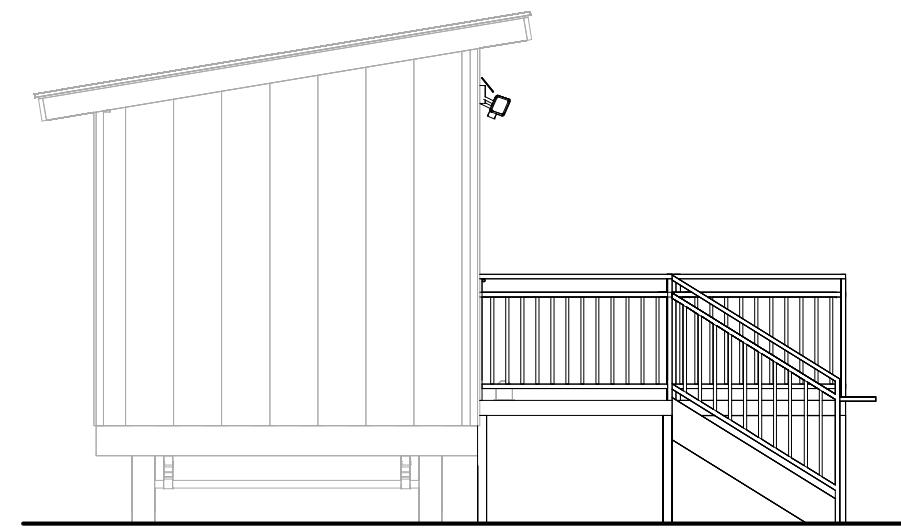
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

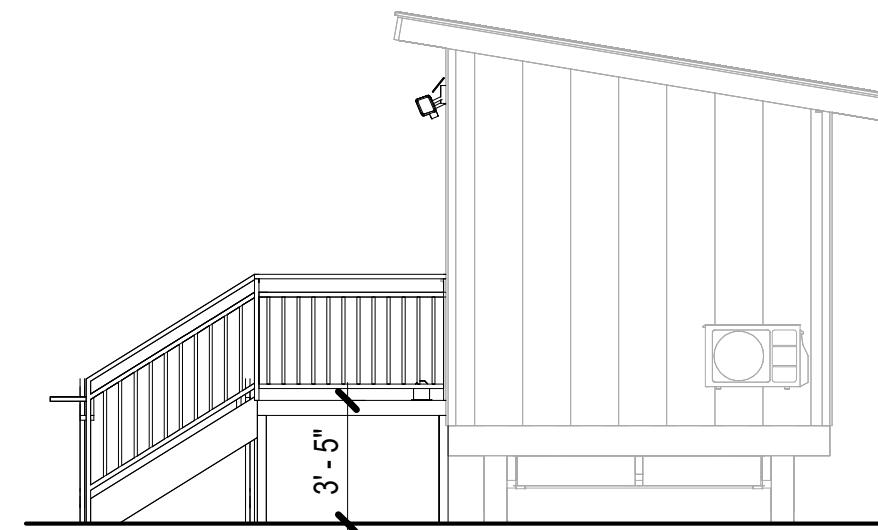
RAMP AND STAIR PLAN

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

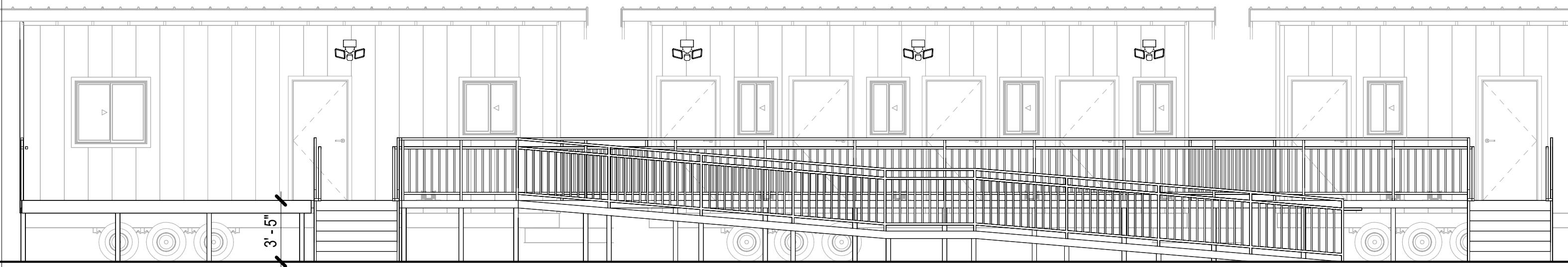
A5.02



③ RAMP AND STAIR EAST ELEVATION  
3/16" = 1'-0"



② RAMP AND STAIR WEST ELEVATION  
3/16" = 1'-0"



① RAMP AND STAIR NORTH ELEVATION  
3/16" = 1'-0"

**NAN INC.**

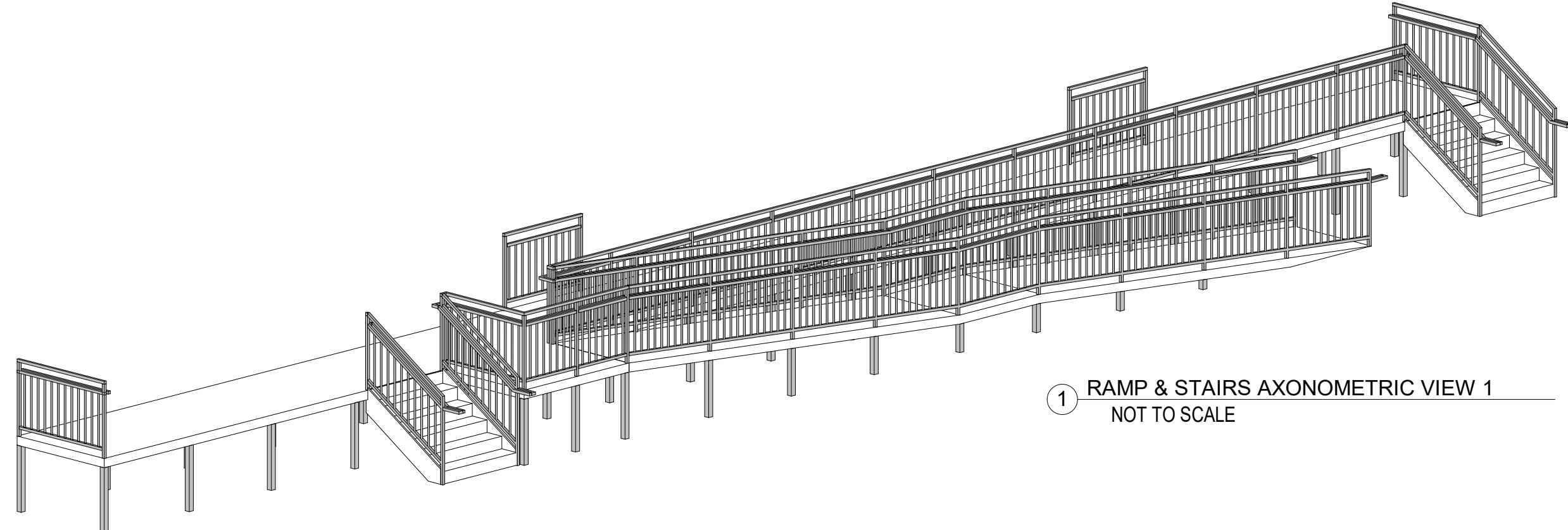
HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

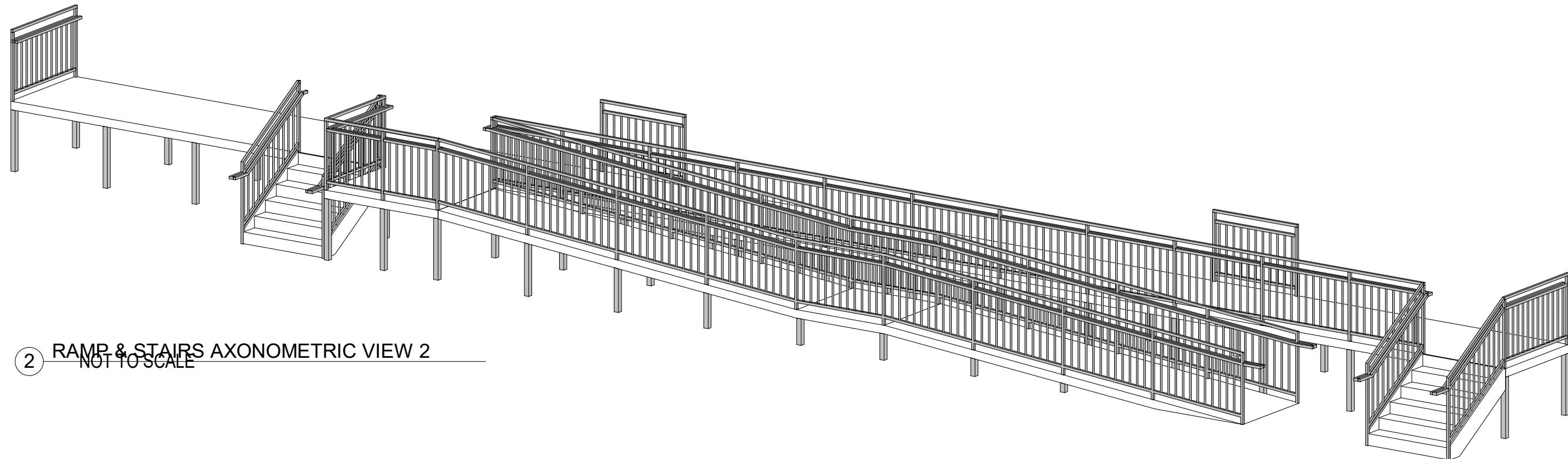
RAMP AND STAIR ELEVATION

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

**A5.03**



① RAMP & STAIRS AXONOMETRIC VIEW 1  
NOT TO SCALE



② RAMP & STAIRS AXONOMETRIC VIEW 2  
NOT TO SCALE

**NAN INC.**

HILO WASTE WATER TREATMENT PLANT  
FIELD OFFICE TRAILERS

No.	Description	Date

RAMP AND STAIR AXONOMETRIC VIEWS

Project number	004
Date	MAY 2, 2025
Drawn by	GM
Checked by	--

A5.04

## Hi-bor® Borate Pressure Treated Wood Products:

- For use in above ground weather protected structural framing in residential and commercial projects, such as residential dwellings, industrial buildings, or any application requiring wood protected against termites, carpenter ants, and fungal decay, including dry rot.
- Hi-bor Borate Pressure Treated Wood Products are backed by a 20-year limited warranty (See warranty for details.).
- Pressure treated with an EPA registered borate wood preservative for protection against termites, carpenter ants, and fungal decay.
- Hi-bor Borate Pressure Treated Lumber is recommended for sill plate, joists, studs, roof trusses, blocking, rafters, beams, and other framing applications.
- Hi-bor Borate Pressure Treated Plywood is recommended for wall sheathing, roof sheathing, and subfloors, where not exposed to wetting conditions.

## Materials

- Hi-bor Borate Pressure Treated Wood is treated with Disodium Octaborate Tetrahydrate (DOT).
- Hi-bor Borate Pressure Treated Wood is accepted by Hawaii building codes, major model building codes, and it is supported by the ICC Legacy Report #NER-648.

## Workability

- As with untreated wood, Hi-bor Borate Pressure Treated Wood may be sawn, drilled, or routed with standard woodworking equipment.
- Hi-bor Borate Pressure Treated Lumber is also recommended for fascia, trim, and miscellaneous wood applications, when properly protected from the weather (refer to limitations).
- Products may be fastened with standard (common) nails and screws. Check local building codes which may vary in requirements.

## Limitations

- Hi-bor Borate Pressure Treated Wood is intended to be used for framing and applications where the wood is not in direct contact with the ground and is continuously protected from liquid water. Normal exposure to weather during ordinary installation will not adversely affect the performance of the product.
- Hi-bor Borate Pressure Treated Wood Products should not be used for outdoor structures exposed to weathering and rain.
- Facia and other exposed applications must be protected with primer and at least two coats of paint. Material must be allowed to dry before painting.

## Technical Information

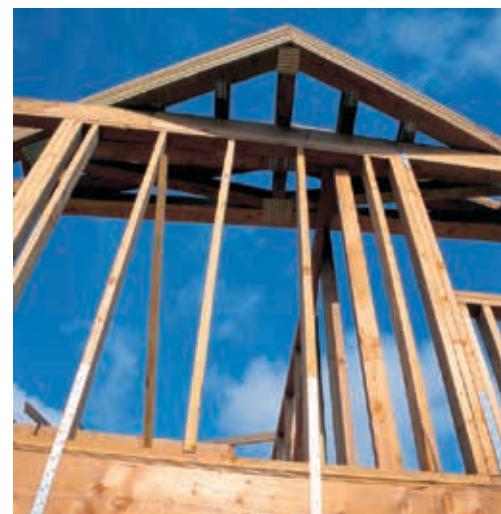
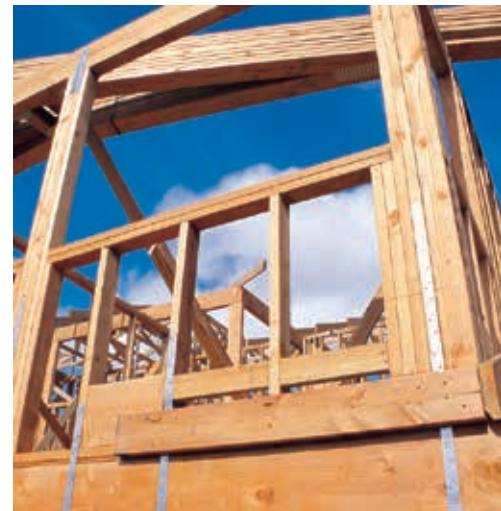
- All products bear a permanent ink stamp or end tag carrying the Hi-bor trademark, a quality mark of an approved third party inspection agency, and the name of the treating company that produced the treated products.
- For further technical information and Material Safety Data Sheets, contact Koppers Performance Chemicals Inc. as listed under Warranty and Technical Support.

## Job Site Storage and Handling

- As with untreated wood, it is necessary to keep Hi-bor Borate Pressure Treated Wood products dry by covering the material with plastic or storing the materials under shelter and elevating the material above the ground to allow for air circulation.
- Sheathing should be covered as soon as practical after installation. If wetted during initial construction, allow materials to properly dry before permanently enclosing with felt, wallboard, etc.
- After working with the wood, and before eating, drinking, and use of tobacco products, wash exposed areas thoroughly.

## Installation

- Field treatment of all end cuts and borings, including plumbing and electrical holes is required on all lumber and timbers over 2" in thickness. Field treatment shall be either a 2% solution (copper metal basis) of Copper Naphthenate or a 10% solution of DOT, or another end coat preservative.



## **Warranty Information**

Subject to certain requirements, exclusions and limitations, Koppers Performance Chemicals Inc. offers a 20-year limited warranty (subject to a maximum of \$5,000). The limited warranty applies only to Hi-bor Borate Pressure Treated Wood products installed by licensed contractors in Hawaii that meet all the conditions specified on the front and back of the warranty.

Hi-bor treated wood is recommended as part of an overall treated structural system. Hi-bor treated wood is only warranted for "TREATED STRUCTURAL SYSTEM" in which all interior house framing, the part of the house that provides structural stability, is constructed with Hi-bor treated wood and installed by a licensed contractor for maximum protection. Additional requirements for "TREATED STRUCTURAL SYSTEM" include:

- Soil treatment with an approved pesticide at the time of construction.
- Proper construction practices where no part of any exterior wall including stucco, hardboard, etc. is within four inches of final grade, and pesticide treatment and grouting of hollow tile or cement blocks within eight inches of the soil. Hi-bor treated wood used for exterior portions of the structure (siding, fascia, etc.) must be protected at all times by an exterior waterproof coating of paint, water proofing sealant, etc.

*Failure to observe these requirements may lead to failure of Hi-bor Brand Borate Pressure Treated Wood and shall void any and all warranties.*

### **SEE WARRANTY FOR DETAILS.**

## **Important Information**

- Do not burn preserved wood.
- Job site storage - intended for interior use only- store off the ground & cover to protect from water and allow for ventilation.
- Wear a NIOSH N95 dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Wear gloves when working with wood.
- Some preservative may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin. Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before reuse.
- Preserved wood should not be used where it may come into direct or indirect contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges.
- Do not use preserved wood under circumstances where the preservative may become a component of food, animal feed, or beehives.
- Do not use preserved wood as mulch.
- Only preserved wood that is visibly clean and free of surface residue should be used.
- If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed.
- Disposal Recommendations: Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state, and local regulations.
- If you desire to apply a paint, stain, clear water repellent, or other finish to your preservative treated wood, we recommend following the manufacturer's instructions and label of the finishing product. Before you start, we recommend you apply the finishing product to a small exposed test area before finishing the entire project to insure it provides the intended result before proceeding.
- Projects should be designed and installed in accordance with federal, state, and local building codes and ordinances governing construction in your area and in accordance with the National Design Specifications (NDS) and the Wood Handbook.
- Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold. For more information visit [www.epa.gov](http://www.epa.gov)
- Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use.
- Use wood preservatives safely. Always read the label and product information before use.



*For more information call 800-585-5161 or visit [www.kopperspc.com](http://www.kopperspc.com)*

Hi-bor is produced by independently owned and operated wood preserving facilities. Hi-bor® is a registered trademark of Koppers Performance Chemicals Inc. © 1/2018

## Specifications: LP® SmartSide® Panel Siding

### PANEL SIDING

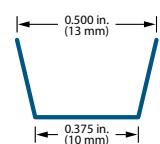
#### RATED FOR STRUCTURAL USE BY APA®

- Shiplap edges with alignment bead for easier installation
- Primed for exceptional paint adhesion
- Significantly lighter per square foot than comparable fiber cement panel
- Strong enough to be nailed directly to stud, making additional sheathing unnecessary in many applications
- Helps to eliminate need for additional bracing on load-bearing walls
- Ideal exterior for homes in areas of high winds or seismic activity
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay

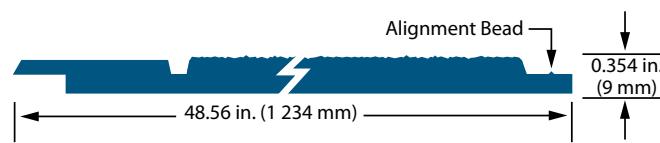


Cedar Texture

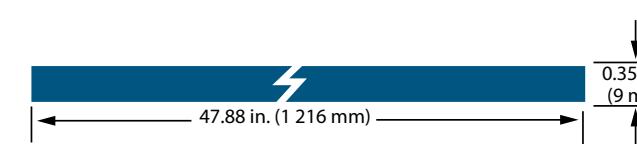
#### GROOVE DETAIL



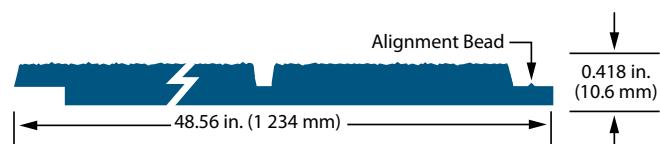
#### 38 SERIES CEDAR TEXTURE PANEL 8" O.C.



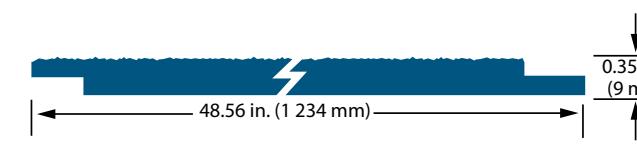
#### 38 SERIES CEDAR TEXTURE – NO GROOVE DUAL USE SIDING AND SOFFIT PANEL



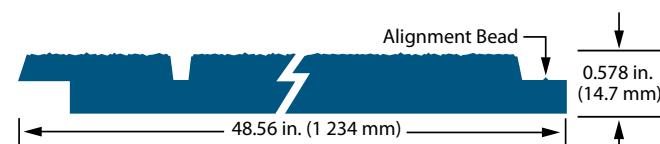
#### 76 SERIES CEDAR TEXTURE PANEL 4" & 8" O.C.



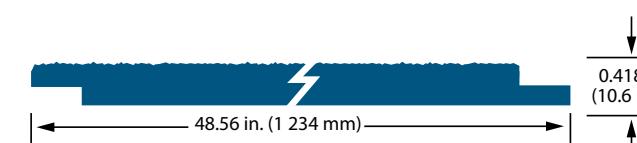
#### 38 SERIES CEDAR TEXTURE PANEL – NO GROOVE



#### 190 SERIES CEDAR TEXTURE PANEL 8" O.C.



#### 76 SERIES CEDAR TEXTURE PANEL – NO GROOVE



## Specifications: LP® SmartSide® Panel Siding

DESCRIPTION	LENGTH	GROOVE	GROOVE WIDTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
38 Series Cedar Texture Panel 8" o.c.	6 ft. (72 in.)(1.8 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	27805	1.5 PSF
	7 ft. (84 in.)(2.1 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	27806	1.5 PSF
	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	25840	1.5 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	25843	1.5 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	25844	1.5 PSF
	12 ft. (144 in.)(3.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.354 in. (9 mm)	25845	1.5 PSF
38 Series Cedar Texture Panel No Groove Shiplap Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	48.56 in. (1234 mm)	0.354 in. (9 mm)	25855 *	1.5 PSF
	9 ft. (108 in.)(2.7 m)	No Groove	N/A	48.56 in. (1234 mm)	0.354 in. (9 mm)	29189 *	1.5 PSF
	10 ft. (120 in.)(3.0 m)	No Groove	N/A	48.56 in. (1234 mm)	0.354 in. (9 mm)	25825 *	1.5 PSF
38 Series Cedar Texture Siding and Soffit Panel No Groove Square Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	47.88 in. (1216 mm)	0.354 in. (9 mm)	41044	1.5 PSF
76 Series Cedar Texture Panel 4" and 8" o.c.	8 ft. (96 in.)(2.4 m)	4 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25831	1.5 PSF
	9 ft. (108 in.)(2.7 m)	4 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25832 *	1.5 PSF
	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25848	1.5 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25850	1.5 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25851	1.5 PSF
76 Series Cedar Texture Panel No Groove Shiplap Edge**	8 ft. (96 in.)(2.4 m)	No Groove	N/A	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25856	1.5 PSF
	9 ft. (108 in.)(2.7 m)	No Groove	N/A	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25857	1.5 PSF
	10 ft. (120 in.)(3.0 m)	No Groove	N/A	48.56 in. (1234 mm)	0.418 in. (10.6 mm)	25858	1.5 PSF
190 Series Cedar Texture 8" o.c.	8 ft. (96 in.)(2.4 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.578 in. (14.7 mm)	25852	2 PSF
	9 ft. (108 in.)(2.7 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.578 in. (14.7 mm)	25853 *	2 PSF
	10 ft. (120 in.)(3.0 m)	8 in. o.c.	3/8 in. (10 mm)	48.56 in. (1234 mm)	0.578 in. (14.7 mm)	25854 *	2 PSF

\*Special order item. Requires minimum quantity and extended lead times.

\*\*Coordinates with LP SmartSide Trim for board and batten applications.

## Specifications: LP® SmartSide® Panel Siding Coverage

Panel Siding	Reveal (size)			
Area (sq. ft.)	4'x 8'	4'x 9'	4'x 10'	4'x 12'
100	4 pcs.	3 pcs.	3 pcs.	3 pcs.
200	7 pcs.	6 pcs.	5 pcs.	5 pcs.
300	10 pcs.	9 pcs.	8 pcs.	7 pcs.
400	13 pcs.	12 pcs.	10 pcs.	9 pcs.
500	16 pcs.	14 pcs.	13 pcs.	11 pcs.
600	19 pcs.	17 pcs.	15 pcs.	13 pcs.
700	22 pcs.	20 pcs.	18 pcs.	15 pcs.
800	25 pcs.	23 pcs.	20 pcs.	17 pcs.
900	29 pcs.	25 pcs.	23 pcs.	19 pcs.
1000	32 pcs.	28 pcs.	25 pcs.	21 pcs.
1500	47 pcs.	42 pcs.	38 pcs.	32 pcs.
2000	63 pcs.	56 pcs.	50 pcs.	42 pcs.
2500	79 pcs.	70 pcs.	63 pcs.	53 pcs.
3000	94 pcs.	84 pcs.	75 pcs.	63 pcs.
3500	110 pcs.	98 pcs.	88 pcs.	73 pcs.
4000	125 pcs.	112 pcs.	100 pcs.	84 pcs.
4500	141 pcs.	125 pcs.	113 pcs.	94 pcs.
5000	157 pcs.	139 pcs.	125 pcs.	105 pcs.

## Specifications: LP® SmartSide® Trim

### CEDAR TEXTURE TRIM



#### THE CLASSIC APPEARANCE OF CEDAR

- Exterior use, including corner boards, windows and doors
- Narrow widths for more design flexibility
- Primed for exceptional paint adhesion
- 16' length can result in faster installation and fewer seams
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay



Cedar Texture

#### 190 SERIES CEDAR TEXTURE TRIM



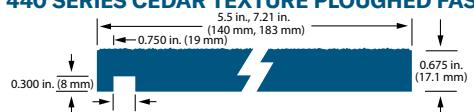
#### 440 SERIES CEDAR TEXTURE TRIM



#### 540 SERIES CEDAR TEXTURE TRIM



#### 440 SERIES CEDAR TEXTURE PLOUGHED FASCIA



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
190 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.578 in. (14.7 mm)	28448	2 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.578 in. (14.7 mm)	28450	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.578 in. (14.7 mm)	28452	2 PSF
440 Series Trim	16 ft. (192 in.)(4.9 m)	1.50 in. (38 mm)	0.675 in. (17.1 mm)	25877	2 PSF
	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.675 in. (17.1 mm)	25878	2 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	25880	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	25882	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	25883	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	25884	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	25885	2 PSF
	16 ft. (192 in.)(4.9 m)	1.50 in. (38 mm)	0.970 in. (24.6 mm)	25886 *	3 PSF
440 Series Ploughed Fascia	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.970 in. (24.6 mm)	25887 *	3 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	25888	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	25890	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	25891	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	25892	3 PSF
440 Series Ploughed Fascia	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	25893	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	27240 *	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	27819 *	2 PSF

\*Special order item. Requires minimum quantity and extended lead times.

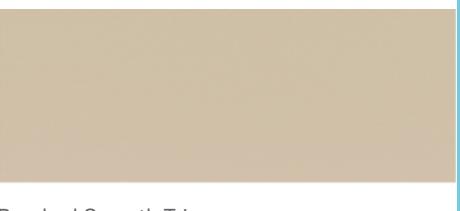
## Specifications: LP® SmartSide® Trim

### BRUSHED SMOOTH TRIM



#### SMOOTH APPEARANCE, ADVANCED DURABILITY OF ENGINEERED WOOD

- Helps protect against moisture intrusion, impacts from hail, and damage from freeze/thaw cycles
- Treated with the SmartGuard® process for superior protection against many weather conditions and resistance to termites and fungal decay
- 16' length can result in faster installation and fewer seams
- Primed for exceptional paint adhesion
- Backed by an industry-leading 5/50-year limited warranty



Brushed Smooth Trim

#### 440 SERIES BRUSHED SMOOTH TRIM



#### 540 SERIES BRUSHED SMOOTH TRIM



DESCRIPTION	LENGTH	ACTUAL WIDTH	THICKNESS	PID NUMBER	WEIGHT
440 Series Trim	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.675 in. (17.1 mm)	46000	2 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.675 in. (17.1 mm)	46001	2 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.675 in. (17.1 mm)	46002	2 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.675 in. (17.1 mm)	46003	2 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.675 in. (17.1 mm)	46004	2 PSF
540 Series Trim	16 ft. (192 in.)(4.9 m)	2.50 in. (64 mm)	0.970 in. (24.6 mm)	46010	3 PSF
	16 ft. (192 in.)(4.9 m)	3.50 in. (89 mm)	0.970 in. (24.6 mm)	45992	3 PSF
	16 ft. (192 in.)(4.9 m)	5.50 in. (140 mm)	0.970 in. (24.6 mm)	45993	3 PSF
	16 ft. (192 in.)(4.9 m)	7.21 in. (183 mm)	0.970 in. (24.6 mm)	45995	3 PSF
	16 ft. (192 in.)(4.9 m)	9.21 in. (234 mm)	0.970 in. (24.6 mm)	45997	3 PSF
	16 ft. (192 in.)(4.9 m)	11.21 in. (285 mm)	0.970 in. (24.6 mm)	45998	3 PSF

# DuPont™ Tyvek® HomeWrap®

Sturdy House Wrap Engineered for Energy Efficiency



## FEATURES/BENEFITS

### Description

DuPont™ Tyvek® HomeWrap® is the original house wrap, incorporating unique material science that helps keep air and water out, while letting water vapor escape. As a result, it can contribute to improved building durability by helping to protect homes against damaging wind and rain that can penetrate the exterior cladding.

Tyvek® HomeWrap® can also reduce home energy bills by controlling air flow and water intrusion, which helps insulation work better, allowing the HVAC system to work more efficiently. It's a house wrap engineered to keep homes cool in the summer, warm in the winter, and dry all year round.

### Available Sizes

Tyvek® HomeWrap® is available in the following roll sizes:

- 3' x 100' (0.9 m x 31 m)
- 3' x 165' (0.9 m x 50 m)
- 5' x 200' (1.5 m x 61 m)
- 9' x 100' (2.7 m x 31 m)
- 9' x 150' (2.7 m x 46 m)
- 10' x 100' (3 m x 31 m)
- 10' x 150' (3 m x 46 m)

### Air and Water Barrier Performance

- Unique nonwoven structure of Tyvek® HomeWrap® makes it breathable, allowing moisture vapor to pass through. This helps promote drying in wall systems, to help prevent mold and water damage.
- Tyvek® HomeWrap® stops air movement through the walls, helping insulation perform closer to its full R-value, to provide a more energy-efficient home
- Withstands up to four months (120 days) of UV exposure.
- ASTM E2556, Type II Compliant – Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment.

### Ease of Installation

Tyvek® HomeWrap® is easy to install. It is pliable, so it wraps around corners with ease. It is also light weight, easier to handle, and faster to install than the average house wrap. In addition, because it's flexible, Tyvek® HomeWrap® easily interfaces at joints, and over architectural elements.

## High Performance Durability

DuPont™ Tyvek® HomeWrap® is a uniquely engineered product made by spinning extremely fine high-density polyethylene (HDPE) fibers that are fused together to form a strong, uniform web. The tough structure of Tyvek® is engineered to create millions of extremely small pores that resist bulk water and air penetration, while allowing moisture vapor to pass through. Tyvek® HomeWrap® can also withstand up to four months (120 days) of UV exposure.

## Complete System

Tyvek® HomeWrap® can be integrated with DuPont Self-Adhered Flashing Products and Tyvek® Fluid Applied Products to offer seamless protection for wall systems that require mechanically fastened and fluid applied air and water barriers.

## Sustainable Solutions

Tyvek® HomeWrap® may contribute toward LEED® points in the areas of Energy and Atmosphere (EA): Optimizing the Building Envelope and Indoor Environmental Air Quality (EQ): Construction IAQ Management Plan and Low Emitting Materials. In addition, the use of a continuous air barrier is a prerequisite for LEED® applications requiring compliance with ASHRAE 90.1-2010.

By helping to effectively seal the building envelope, Tyvek® HomeWrap® helps to reduce the amount of energy required for heating and cooling.

## PROPERTIES

Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact your local DuPont™ Tyvek® Specialist before writing specifications around this product. Product properties are as follows:

Test Method	Property	Typical Value	Units
ASTM E2178 Gurley Hill (TAPPI T-460) ASTM E1677	Air Penetration Resistance	<.004 1200 Type 1	cfm/ft <sup>2</sup> @1.57 psf sec/100cc -
ICC-ES AC 24 Section 6.11 ASTM E2273 ICC-ES AC 235 Section 4.5	Drainage Efficiency	Pass >90 Pass	- % -
ASTM E96-05	Water Vapor Transmission	Method A 400 56	g/m <sup>2</sup> -24 hrs perms
ASTM E96-05	Water Vapor Transmission	Method B 370 54	g/m <sup>2</sup> -24 hrs perms
AATCC 127	Water Penetration Resistance	250	cm
TAPPI T-410	Basis Weight	1.8	oz/yd <sup>2</sup>
ASTM D882	Breaking Strength	30/30	lbs/in
ASTM D1117	Tear Resistance (Trapezoid)	8/6	lbs
ASTM E84 Flame Spread Index Smoke Developed Index	Surface Burning Characteristics	15 15	Class A Class A

Test results shown represent roll averages. Individual results may vary either above or below averages due to normal manufacturing variations, while continuing to meet product specifications.

**WARNING:** DuPont™ Tyvek® is combustible and should be protected from an open flame and other high heat sources. If the temperature of DuPont™ Tyvek® reaches 750°F (400°C), it will burn and the fire may spread and fall away from the point of ignition.



For more information visit us at  
[building.dupont.com](http://building.dupont.com)  
or call 1-833-338-7668

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**PALISADE®**



## PALISADE® SA-HT

### SYNTHETIC ROOF UNDERLAYMENT

PALISADE® SA-HT is a high temperature (250°F), self-adhered roofing underlayment designed for steep slope roof applications. PALISADE® SA-HT includes a top surface with STRONGHOLD™ skid resistant technology. STRONGHOLD™ is designed to provide roofers with superior walkability in the most demanding steep slope conditions of wet & dusty surface environments. PALISADE® SA-HT is designed for use under metal, asphalt shingles, synthetic shingles, primed cedar shakes, slate and tiles.



### FEATURES & BENEFITS

#### STRONGHOLD SKID RESISTANT TECHNOLOGY

- Patented\* Skid Resistant Technology delivers superior walking and roof loading traction

\*US PATENT: 7,887,900, CDN PATENT: 2,597,138

#### STRENGTH

- High nail tear strength woven PP facer vs. film facer

#### PERFORMANCE

- HT250 Hi-Temp Adhesive formulated for superior high temperature performance

#### PROTECTION

- Advanced UV Technology allows for up to 6 months UV exposure before the final roof covering is applied
- Unique KOOL BLUE™ color technology produces lower heat absorption and lower glare



PALISADE® SA-HT meets or exceeds the following building codes:



## PROPERTIES / TEST METHOD

<b>Color</b>	KOOL BLUE™
<b>Top Surface</b>	Polymer-based STRONGHOLD™ Anti-Skid Technology
<b>Bottom Release Liner</b>	Silicone Split Release Liner
<b>Permeability / ASTM E96-00</b>	0.01 perms
<b>Nominal Thickness / ASTM D1777</b>	40 mil (1 mm)
<b>Nail Sealability / ASTM D1970</b>	Pass
<b>Lap Sealability / ASTM D1970</b>	Pass
<b>Tensile Strength / ASTM D226</b>	121 lbf/in. (21 kN/m)
<b>Tear Strength / ASTM D4523</b>	160 lbf/in. (28 kN/m)
<b>Elongation / ASTM D2523</b>	16%
<b>Low Temperature Flex. / ASTM D1970</b>	-22° F (-30°C) - Pass
<b>Adhesion to Plywood / ASTM D1970</b>	55 lbf/ft.: 75°F (25 kgf/30.5 cm: 24°C)
<b>Adhesion to Plywood / ASTM D1970</b>	12 lbf/ft.: 40°F (5.5 kgf/30.5 cm: 24°C)
<b>UV Exposure / ASTM G90</b>	6 months
<b>Temperature Range / ASTM D1970</b>	LT: 15°F (-9°C) to HT: 250°F (121°C)

## ROLL / PALLET SPECS

<b>Length per Roll</b>	66.7' / 20.3 m
<b>Width per Roll</b>	36" / 91.4 cm
<b>Weight per Roll</b>	45 lbs / 21 kg
<b>Square/Roll</b>	2
<b>Rolls per Pallet</b>	30



Scan for more info or visit [palisadebuild.com](http://palisadebuild.com)



# Safe'n'Sound®

## Fire and Soundproofing Insulation



ROCKWOOL Safe'n'Sound® is a stone wool insulation for use in interior partitions of residential wood and steel stud construction where superior fire resistance and acoustical performance are required.

Safe'n'Sound® is noncombustible and will not produce toxic smoke or promote flames spreading, even when directly exposed to fire. This adds valuable extra time for people to reach safety and for fire services personnel to arrive.

Available in 3" and 6" thicknesses, Safe'n'Sound has excellent acoustical dampening properties and provides an easy friction fit into wall, ceiling and floor applications. It is GREENGUARD Gold Certified and contributes to a healthier indoor environment.

Learn more at [rockwool.com/safensound](http://rockwool.com/safensound)

### A Quiet Space

A high density and unique fiber structure absorbs sound and reduces noise traveling from one room to another, improving occupant comfort.



# Safe'n'Sound®

## Residential Fire and Soundproofing Insulation

### Technical Data Sheet

Batt Insulation 07210 & 09820\*

Acoustic Blanket Insulation 09 81 16\*\*

**ROCKWOOL Safe'n'Sound® is a stone wool batt insulation for interior partitions of wood and steel frame construction where superior fire resistance and acoustical performance is required.**

	Performance	Test Standard
Compliance	Mineral Fiber Blanket Thermal Insulation, Type 1 Compliant Mineral Fiber Thermal Insulation for Buildings, Type 1 Compliant	ASTM C665 CAN/ULC S702
Reaction to Fire	Flame Spread Index = 0; Smoke Developed Index = 0 Flame Spread Rating = 0; Smoke Developed Classification = 0 Combustibility of Materials at 750 °C - Noncombustible Determination of Non-combustibility of Building Materials - Non-combustible	ASTM E84 (UL 723) <sup>1</sup> CAN/ULC S102 ASTM E136 CAN/ULC S114
Nominal Density	> 2.5 lbs/ft <sup>3</sup> (>40 kg/m <sup>3</sup> ) <sup>†</sup>	ASTM C167
Thickness	Product is available in 3" (76 mm) and 6" (152 mm) thicknesses	
Dimensions	Wood Stud 16" (406 mm) on center: 15.25" x 47" (387 mm x 1194 mm) Wood Stud 24" (610 mm) on center: 23" x 47" (584 mm x 1194 mm) I-Joist 16" (402 mm) on center: 16.25" x 48" (413 mm x 1219 mm) I-Joist 19.2" (488mm) on center: 19.2" x 47" (488 mm x 1194 mm) Steel Stud 16" (406 mm) on center: 16.25" x 48" (413 mm x 1219 mm) Steel Stud 24" (610 mm) on center: 24.25" x 48" (616 mm x 1219 mm)	
Acoustical Performance	Thickness      125 Hz      250 Hz      500 Hz      1000 Hz      2000Hz      4000 Hz      NRC 6"            1.11           1.28           1.15           1.06           1.03           1.01           1.15	ASTM C423



Issued: 02-2025  
Supersedes 08-2024

NOTE: \*Master Format 1995 Edition \*\*Master Format 2004 Edition. As ROCKWOOL has no control over installation design and workmanship, accessory materials or application conditions, ROCKWOOL does not warranty the performance or results of any installation containing ROCKWOOL's products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. NOTE 1: Meets Class A requirements for flame spread and smoke-developed indices as per IBC.

<sup>†</sup>Density will change with thickness. Density is not a performance criteria but is commonly referred to when specifying insulation. Actual density is the true density of the insulation and Nominal density is the effective density of the insulation relative to a historic benchmark where the insulation contained 40% non-fibrous content also known as Shot (ASTM C612-99). Please contact ROCKWOOL for more information.



# Sustainable Insulation™

## FIBERGLASS BUILDING INSULATION

CertainTeed Sustainable Insulation™ is an easy to install, cost effective solution to help save energy in residential and commercial new construction, as well as for renovating or retrofitting existing buildings. In addition to its thermal properties, this fiberglass building insulation also provides excellent acoustical performance. It is designed for use in standard wood stud and steel frame assemblies.

Sustainable Insulation brings you long-lasting comfort through increased thermal performance and reduced noise levels and meets the growing demand for sustainable construction, offering exceptional performance while contributing to a greener future. It is compression packaged for ease of handling, and it's broad availability of R-values, sizes and facings ensures the right product for the job. The product resists mold and mildew and will not rot or deteriorate.

### Features & Benefits

Installing Fiberglass Building Insulation is an easy, cost-effective method to help conserve energy in residential and commercial new construction, remodeling and reinsulation projects.

### Composition & Materials

The product is composed of tan, uniformly textured, inorganic fibrous glass and formed with a formaldehyde-free, thermosetting binder.

### Application

The National Electrical Code prohibits installation of any insulation over or within 3" (76 mm) of recessed light fixtures, unless approved insulated ceiling (IC) lighting fixtures are used. Standard kraft facing is flammable and should not be left exposed. Kraft faced insulation must be installed behind and in substantial contact with the unexposed surface of the ceiling, floor or wall finish.

Special care should be taken when working with an open flame. Where a flame spread rating of 25 is required, insulation must be unfaced or have a foil scrim kraft (FSK) facing.

Because of potential skin irritation, unfaced building insulation should not be installed in an exposed area where it will be subject to human contact.

All building insulation should be kept dry. Wet fiberglass insulation will lose its effectiveness until it dries. Fiberglass will often dry naturally and regain its original R-Value. However, under conditions where the insulation will not dry thoroughly it should be removed and allowed to dry or be replaced.

### Quality Assurance

Our products meet the most stringent certificates:



USGBC® and the related logo are trademarks owned by the U.S. Green Building Council and are used with permission.

### APPLICABLE STANDARDS, CODE COMPLIANCE

Model Building Codes:

- (ICC)
- California quality standards

Material Standards:

- ASTM C553  
Type I, II
- ASTM C665  
Type I, unfaced  
Type II, Class C, Category 1, kraft faced
- GREENGUARD® Gold Certified
- Environmental Product Declaration (EPD)
- Health Product Declaration (HPD)

### PHYSICAL/CHEMICAL PROPERTIES

PROPERTY (UNIT)	TEST	VALUE
Thermal Performance:	ASTM C518	R-Values for insulation only, as stated in table on other side
Surface Burning Characteristics (flame spread / smoke developed): Unfaced	ASTM E84 Fire Rated Class A	25 / 50
Critical Radiant Flux (W/cm²):	ASTM E790	≥0.12
Noncombustability (Unfaced):	ASTM E136	Pass
Water Vapor Permeance (of Kraft Facing) Type II Vapor Retarder:	ASTM E96, Desiccant Method	<1.0 perm (57 ng/Pa·s·m²)
Water Vapor Sorption:	ASTM C1104	≤5%
Odor Emission:	ASTM E790	Pass
Corrosion Resistance:	ASTM C1104	Pass
Fungi Resistance:	ASTM C1338	Pass



SAINT-GOBAIN

# Sustainable Insulation™

## FIBERGLASS BUILDING INSULATION

### Installation

For most areas, vapor retarders should be installed on the warm-in-winter side of the insulation (toward the interior). Check with local practice and building codes. CertainTeed insulation is not intended to be installed with the facing placed toward the exterior of the building.

#### INSTALLATION IN WOOD FRAMING:

**Studs** - Faced insulation fits between wood studs with flanges stapled either to the faces or sides of the studs. Pull flanges taut while stapling every 8"-12" (203-305 mm) to prevent gaps. Unfaced rigid fit insulation is pressure fitted between studs.

**Ceiling Joists** - Faced insulation is placed between joists with vapor retarder facing down. Flanges can be stapled to bottom faces or sides of joists if insulation is installed before ceiling finish. Only unfaced insulation is installed over existing insulation.

**Floor Joists** - Faced insulation is installed with the vapor retarder facing up and in contact with the floor. All insulation must be supported between joists on an approved support such as wire.

**Cathedral Ceilings** - Faced insulation with vapor retarder facing down is stapled between the rafters. A 1" air space is recommended between insulation and roof sheathing. If unfaced insulation is used, a separate vapor retarder, like MemBrain® the Smart Vapor Retarder, should be installed where required.

#### INSTALLATION IN STEEL FRAMING:

- Standard practice for installing fiberglass batts in steel studs is to friction fit batts into stud cavities. When batts completely fill stud cavities they are constrained by studs at their edges and by wall facings front and rear. For faced product, use tabless batts or leave stapling flanges folded.
- When fiberglass batts are installed in steel ceiling or floor joists or rafters from below, they must be supported with wire or a ceiling finish material.
- Ventilation and vapor retarder requirements are the same as with wood framing.

### Available Sizes

Available standard sizes are listed in the table. Contact CertainTeed for non-standard sizes.

R-VALUE		THICKNESS		WIDTH	
R	RSI	IN	MM	IN	MM
<b>UNFACED</b>					
8	1.4	2-1/2	64	16 & 24	406 & 610
11	1.9	3-1/2	89	15, 15-1/4, 19, 23, 23-1/4, 44, 48 & 84	381, 387, 483, 584, 591, 1118, 1219 & 2134
13	2.3	3-1/2	89	15-1/4, 16, 23-1/4 & 24	387, 406, 591 & 610
15	2.6	3-1/2	89	15-1/4, 16, 23-1/4 & 24	387, 406, 591 & 610
19	3.3	6-1/4	159	15, 15-1/4, 16, 19, 23, 23-1/4, 24 & 48	279, 286, 381, 387, 406, 483, 584, 591, 610 & 1219
21	3.7	5-1/2	140	15-1/4 & 23-1/4	387 & 591
23	4.1	5-1/2	140	15-1/4	387
25	4.4	8	203	15, 16 & 24	381, 406 & 610
30	5.3	10	254	16, 19 & 24	406, 483 & 610
30C*	5.3	8-1/4	210	15-1/4 & 23-1/4	387 & 591
38	6.7	12	305	16 & 24	406 & 610
38C*	6.7	10-1/4	260	15-1/4 & 23-1/4	387 & 591
49		15	381	16 & 24	406 & 610
<b>KRAFT FACED</b>					
11	1.9	3-1/2	89	15, 16, 23 & 24	381, 406, 584 & 610
13	2.3	3-1/2	89	15, 15-1/4, 16, 19, 23 & 24	381, 387, 406, 483, 584 & 610
15	2.6	3-1/2	89	15, 16 & 23	381, 406 & 584
19	3.3	6-1/4	159	15, 16, 23 & 24	381, 406, 584 & 610
21	3.7	5-1/2	140	15 & 23	381 & 584
23	4.1	5-1/2	140	15-1/4	387
25	4.4	8	203	16 & 24	406 & 610
30	5.3	10	254	16, 19-1/4 & 24	406, 483 & 610
30C*	5.3	8-1/4	210	15 & 23	381 & 584
38	6.7	12	305	16 & 24	406 & 610
38C*	6.7	10-1/4	260	15 & 23	381 & 584
49		15	381	16, 19-1/4 & 24	406, 483 & 610

\* Cathedral Ceiling Batts

### TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling Sales Support Group at 800-233-8990.

### MAINTENANCE

An inspection and preventative maintenance program for the insulation and vapor retarder system is recommended to ensure optimum performance.

### AVAILABILITY & COST

For availability and cost, contact your local contractor or distributor, or call CertainTeed Sales Support Group at 800-233-8990.

### WARRANTY

Refer to CertainTeed's Lifetime Limited Warranty for Fiberglass Building Insulation. Full warranty information can be found at [certainteed.com/warranty](http://certainteed.com/warranty).



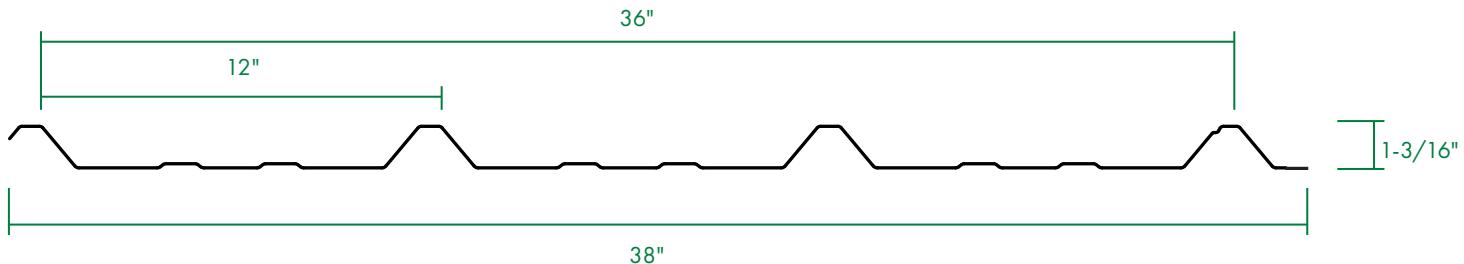
**CertainTeed**

CEILINGS • GYPSUM • INSULATION • ROOFING • SIDING • TRIM  
20 Moores Road, Malvern, PA 19355 800-233-8990 certainteed.com

# CUSTOM 4-RIB

## EXPOSED FASTENED ROOFING PANEL

**Custom 4-Rib (Pattern 9)**, commonly called an "R" panel, is the most popular and efficient panel for roofing, siding, fascia and soffit applications. The normal 1-3/16" high trapezoidal ribs are spaced 12" on center with a 36" net coverage. An anti-siphon groove is provided, however, sidelap sealant is recommended.



## FEATURES

- Efficient 36" coverage
- Bearing leg and anti-siphon groove
- Minimum recommended slope 3:12
- Structural design (can be installed on open purlins)
- Custom panel lengths to 42'
- Similar skylight panels available
- Zincalume AZ50/55 aluminum-zinc coated steel available in 26, 24 or 22 gauge (special order)
- Aluminum alloys available in .032" standard or .040" (special order)
- Standard or custom Durapon 70 factory color finishes
- Tested to ASTM E1592 for wind uplift resistance
- Tested for air and water resistance to ASTM E1680 and E1646 (with field applied seam sealant)
- UL 580 class 90 Wind Uplift rating (specific assembly required)

NOTE: PANEL WIDTH IS NOMINAL - VARIANCE +\/- 1/8"

### HAWAII ISLAND SALES OFFICE & MANUFACTURING

Shipman Industrial Park  
16-166 Melekaehi Street  
Keaua, HI 96749

Phone: (808) 966-5660  
Fax: (808) 966-5672  
Toll-free Statewide: 1-800-317-4161

### HPM CUSTOM METAL ROOFING

WWW.HPMHAWAII.COM

### O'AHU & NEIGHBOR ISLANDS SALES OFFICE

Campbell Industrial Park  
91-302 Hanua Street  
Kapolei, HI 96707

Phone: (808) 682-8560  
Fax: (808) 682-8565  
Toll-free Statewide: 1-877-841-7633



# ZINCALUME®

## The Perfect Building Solution

ZINCALUME® Steel, manufactured by Steelscape, is a metallic coated sheet steel offering two to four times the corrosion resistance of galvanized steel. Its revolutionary aluminum-zinc coating formula consists of 55% aluminum, 43.4% zinc, and 1.6% silicon by weight. By volume, the coating is about 80% aluminum.

ZINCALUME, also known by the trade name Galvalume®, has a uniform spangled surface and can be readily bent, roll-formed or drawn. Durability, edge protection and resistance to crevice corrosion have made this product the building material of choice for construction projects throughout the globe.



A clear, odorless resin can be applied in-line to ZINCALUME producing ZINCALUME® Plus steel. The thin acrylic applied to both sides provides a beautiful satin-smooth finish that can eliminate the need for lubricants, allows for easy field painting, and protects the steel during storage and installation.

Steelscape produces ZINCALUME and ZINCALUME Plus at its Rancho Cucamonga, California, facility. The Rancho Cucamonga plant is strategically positioned for transporting product by both truck and rail, ensuring that all destinations can be served promptly and efficiently.



## Superior Quality Products

ZINCALUME is designed for a wide variety of uses. Specifically, ZINCALUME is perfect for architectural applications such as roofing panels, wall panels and metal tiles, as well as metal building applications\*.

ZINCALUME comes with a 25-year, 6-month warranty for most applications.

ZINCALUME and ZINCALUME Plus products meet the EPA Energy Star Cool Roof requirements and are listed on the Energy Star website. Both products are also approved by the Cool Roof Rating Council as rated roofing products.

\*ZINCALUME is not recommended for application in animal confinement buildings or in buildings where the steel comes in contact with soil, cement and/or concrete. ZINCALUME should not be used with lead, copper, graphite, moist or undried lumber, or chemically treated wood.



## Performance Advantages

Steelscape's ZINCALUME Steel offers:

- Corrosion Resistance - Trials performed in rural, industrial and marine environments show ZINCALUME's coating remains rust free after 25 years in all but the most severe environments. Other coated steel products displayed oxidation as quickly as 9 years into the study.
- Cut Edge Protection - ZINCALUME provides more effective protection for bare steel edges than aluminum or zinc-only coatings. The alloy coating on ZINCALUME provides the optimum combination of the barrier protection and long-term durability of aluminum along with the "sacrificial" or galvanic protection of zinc.
- Joining - ZINCALUME is easily Pittsburgh lock seamed. In exterior applications, fasteners should have a corrosion-resistance equivalent to the life of the sheet. Be sure to use fasteners compatible with ZINCALUME. ZINCALUME can be used to join pieces without the need for additional fasteners, in operations such as bending, folding, stamping, punching or crimping.
- Appearance - A uniform minimum spangle covers both sides of the ZINCALUME steel sheet. The sheet is readily paintable, yet remains more resistant to normal handling marks than zero-spangle coated steel.
- Shape - In-line tension leveling units correct any shape imperfections by stretching the steel, resulting in a flatter product with excellent shape.
- Smoothness - ZINCALUME can be skin passed, a process that results in an extraordinarily smooth sheet. Skin passing's extra-smooth surface is excellent for painting.



Project by VP Buildings



Project by Drexel Metals

- Weldability - ZINCALUME is readily resistance spot-welded.
- Thickness, Width & Coating Weights - ZINCALUME is available in a wide range of widths and thickness, with exceptional thickness tolerances. Air knives with coating mass controls ensure the application of a consistent, even coating, available in AZ50 and AZ55.
- Resistance to High-Operating Temperatures - ZINCALUME can withstand continuous and intermittent exposure to temperatures of up to 600°F without discoloration and up to 1250°F without heavy oxidation.
- Painting - ZINCALUME can be coated with primers, including solvent and water-based, as well as a wide variety of topcoats including polyester, acrylic, silicon-modified polyester, fluorocarbon and plastisols. Pre-painted ZINCALUME allows customers to save time, energy and money by avoiding post-painting expenses; avoiding costly EPA, fire and insurance expenses; reducing space requirements for holding inventory; reducing energy costs; and reducing in-plant lead times.
- Slitting - Steelscape's slitters, with their dual slitting heads, can slit coils to specified widths within a tolerance of +/- .005 inches. Slit coils are individually banded and packaged.
- Embossing - A stucco embossed pattern is available on both metallic-coated and painted products.

**Steelscape**

1-888-285-7717

[www.steelscape.com](http://www.steelscape.com)

ZINCALUME® is a registered trademark of BlueScope Ltd.  
Galvalume® is a registered trademark of BIEC International, Inc.

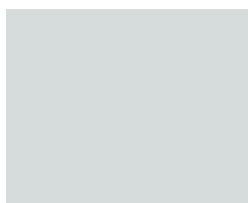




# COLOR SELECTION GUIDE

## Standard Colors

All colors shown available in 26 gauge. 24 gauge and aluminum substrate options available in limited quantities. Colors shown are approximate, please make final selection from metal paint sample. Offering subject to change without notice.



Regal White



Mauna Kea White



Almond



Beach Beige



Platinum



Slate Gray



Tahitian Bronze



Midnight Bronze



Black



Country Red



Hawaii Red



Sand Green



Kelly Green



Forest Green



Light Blue



Midnight Blue



Hawaiian Blue



Bare - ZINCALUME® Plus  
(No Warranty)

*Durapon*  
70

## Specialty & Custom Colors

Additional specialty colors and custom color matching services are available upon request.  
These orders are subject to minimum quantities and extended lead times. Please call for more information.

### HAWAII ISLAND

**KEAAU** 16-166 MELEKAHIWA STREET • KEAAU, HI 96749 • (808) 966-5660

**HILO** 380 KANOELIHUA AVENUE • HILO, HI 96720 • (808) 935-0875

**KONA** 74-5511 LUHIA STREET • KAILUA-KONA, HI 96740 • (808) 334-4200

**WAIMEA** 64-1027 MAMALAHOA HIGHWAY • KAMUELA, HI 96743 • (808) 885-6036

### KAUAI

**LAWAI** 3419 IWIPOO ROAD • LAWAI, HI 96765 • (808) 332-7376

**KAPAA** 5688 KAWAIHAU ROAD • KAPAA, HI 96746 • (808) 977-7310

### MAUI

**WAILUKU** 620 ELUENE PLACE • WAILUKU, HI 96793 • (808) 244-7988

**KIHEI** 369 HUKU LII PLACE • KIHEI, HI 96753 • (808) 879-7900

**MAKAWAO** 1035 MAKAWAO AVENUE • MAKAWAO, HI 96768 • (808) 572-7988

**LAHAINA** 24 ULUPONO STREET • LAHAINA, HI 96761 • (808) 661-9020

**OAHU** 91-302 HANUA STREET • KAPOLEI, HI 96707 • (808) 682-8560

**STATEWIDE & MAINLAND TOLL-FREE** (877) 841-7633

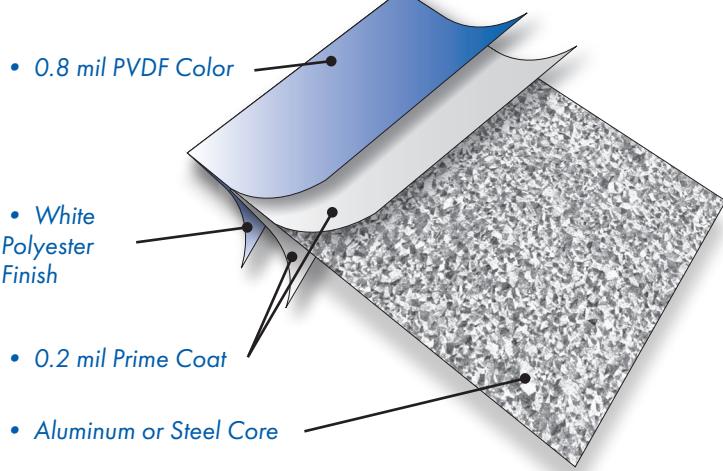
**HPMHAWAII.COM/CUSTOM-METAL-ROOFING**

**Durapon 70®** a unique Proprietary Resin System that incorporates 70% Polyvinylidene Fluoride (PVDF). Designed as a premium finish to provide outstanding protection from acid rain and corrosive environments. **Durapon 70®** coatings provide excellent color retention and resistance to chalking and fading for a long lasting finish. **Durapon 70®** has the best hardness (H min.) to flexibility (1-2T) ratio available in the industry.

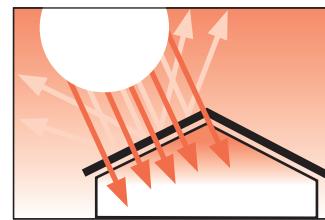
Available in a wide variety of colors, including metallic and exotic finishes, **Durapon 70®** incorporates high-quality exterior grade and durable, color fast ceramic pigments. The use of mica pigments in the metallic colors eliminates the need for a clear overcoat. Our special base resin resists dirt pick up and provides a durable tough finish that is extra scratch, stain and mar resistant.

**Durapon 70®** is designed for application to Hot Dipped Galvanized, Zinc-Aluminum Alloy Steel (i.e. Zincalume®, Galvalume®) and Aluminum substrates.

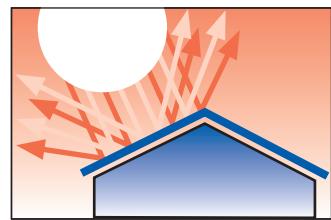
### Multi-Layered Factory Finish



Roof with Conventional Coating



Heat Reflective Color Finish



**Durapon 70®** with Cool Roof pigments are Energy Star compliant. Solar reflectance and emissivity values for each of HPM Custom Metal Roofing's colors are available at [www.hpmhawaii.com/custom-metal-roofing](http://www.hpmhawaii.com/custom-metal-roofing).

Performance values for **Durapon 70®** are available at HPM's website or at [www.duracoatproducts.com](http://www.duracoatproducts.com).

All colors shown on this Color Selection Guide are approximate representations and final selection should be made from metal samples available at HPM Custom Metal Roofing. Standard coating thickness on the exterior is 1 mil including 0.2 mil primer. Custom colors and thicker coatings are available subject to minimum quantity "special order" requirements. Interior (reverse side) finish is supplied in polyester enamel in the color "off-white."

Colors are offered in various materials, thicknesses and panel profiles which are subject to current inventory available at time of order. Please contact HPM Custom Metal Roofing to confirm availability prior to placing order.



CORTEGA®

Square Lay-in & Tegular  
medium texture



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



▲ Cortega® Angled Tegular panels with Prelude® XL® 15/16" suspension system

Medium-texture panels; Economical solution with standard acoustical absorption.

#### KEY SELECTION ATTRIBUTES

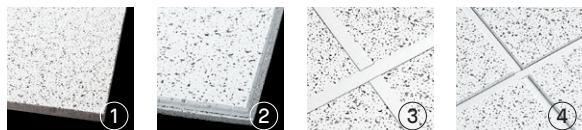
- Cortega® panels are part of the Sustain® portfolio, and meet the most stringent industry sustainability compliance standards today
- Economical
- Non-directional visual reduces scrap and installation time

**COLOR** Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.



White (WH) Tech Black (BL)  
Item 769

#### DETAILS



1. Cortega® Square Lay-in
2. Cortega® Beveled Tegular
3. Cortega® Lay-in with Prelude 15/16" suspension system
4. Cortega® Beveled Tegular with Suprafine® 9/16" suspension system

# CORTEGA®

Square Lay-in & Tegular  
medium texture

USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 91%

Declare.

SUSTAIN®  
High Performance  
Sustainable Ceiling Systems  
(white only)

GREENGUARD  
Gold Certified  
(details below)

LEED®  
WELL™  
LBC

UP TO  
43%  
RECYCLED  
CONTENT

energy management	
construction waste mgmt	
regional materials	
design or flexibility	
EPD	
recyclable/ extended producer resp.	
bio-based materials	
recycled content	
sourcing of raw materials	
material ingredient reporting	
low emitting/ low emissions	
lighting quality	
acoustics	

Calculate sustainability with Green Genie™  
[armstrongceilings.com/green genie](http://armstrongceilings.com/green genie)

## VISUAL SELECTION

armstrongceilings.com/suspdwgs	Susp. Dwg.	Item No.♦	Dimensions (Inches)	
CORTEGA®	1	770	24 x 24 x 5/8"	<input type="checkbox"/>
15/16" Square Lay-in		824	24 x 24 x 5/8"	<input type="checkbox"/>
		769	24 x 48 x 5/8"	<input checked="" type="checkbox"/>
		823	24 x 48 x 5/8"	<input type="checkbox"/>
		747	24 x 48 x 5/8"	<input type="checkbox"/>
		773	20 x 60 x 5/8"	<input type="checkbox"/>
		772	24 x 60 x 5/8"	<input type="checkbox"/>
15/16" Angled Tegular	12	704	24 x 24 x 5/8"	<input type="checkbox"/>
		816	24 x 24 x 5/8"	<input type="checkbox"/>
		703	24 x 48 x 5/8"	<input type="checkbox"/>
9/16" Beveled Tegular	29, 44, 48, 52, 56	2195	24 x 24 x 5/8"	<input type="checkbox"/>

5/8" Thick – 15/16" & 9/16" Square Lay-in or Tegular

Made-to-Order Sizes

**3-4**  
WEEKS  
order to ship

Width	Length
12" - 30"	18" - 72"

Red Numbers are Fire Guard items.

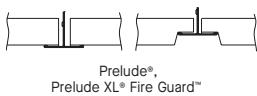
♦ Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 769 B L)

\* Item 2195, CAC 31 when installed on 9/16" Silhouette®.

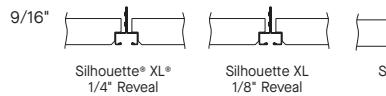
## SUSPENSION SYSTEMS

15/16"



Prelude®,  
Prelude XL® Fire Guard™

9/16"



Silhouette® XL 1/4" Reveal

Silhouette XL 1/8" Reveal

Suprafine®

Interlude® XL® HRC

## PHYSICAL DATA

Material  
Wet-formed mineral fiber

Surface Finish  
Factory-applied latex paint

### Fire Performance

Class A: ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less. Smoke Developed Index of 50 or less (UL labeled).

ASTM E1264 Classification  
Type III, Form 2, Pattern C D

### Humidity/Sag Resistance

Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

VOC Emissions  
GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. This standard is the guideline for low emissions in LEED®, WELL Building Standard™, Living Building Challenge® (LBC), CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/Green Building Assessment Protocol.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

2195, 704, 816, 703 - R Factor - 1.6 (BTU units);

R Factor - 0.28 (Watts units)

770, 772, 769, 773, 823, 824 - R Factor - 1.5 (BTU units);

R Factor - 0.26 (Watts units)

747 - R Factor - 1.5 (BTU units);

R Factor - 0.28 (Watts units)

PRODUCT CERTIFIED  
FOR LOW CHEMICAL  
EMISSIONS  
UL.COM/GG  
UL 2818



### Weight; Square Feet/Carton

769 - 0.61 lbs/SF; 96 SF/ctn

704, 2195 - 0.63 lbs/SF; 64 SF/ctn

772, 773 - 0.63 lbs/SF; 100 SF/ctn

703 - 0.65 lbs/SF; 80 SF/ctn

770 - 0.69 lbs/SF; 64 SF/ctn

816 - 1.08 lbs/SF; 48 SF/ctn

823 - 1.09 lbs/SF; 48 SF/ctn

747, 824 - 1.09 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes made-to-order: Cortega Square Lay-in or Tegular sizes

### Metric Items Available

770M, 824M, 769M, 773M, 772M, 2195M, 704M, 703M, 823M

- Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

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TechLine / 1 877 276-7876  
[armstrongceilings.com/cortega](http://armstrongceilings.com/cortega)

BPCS-3017-123

**Armstrong®**  
World Industries

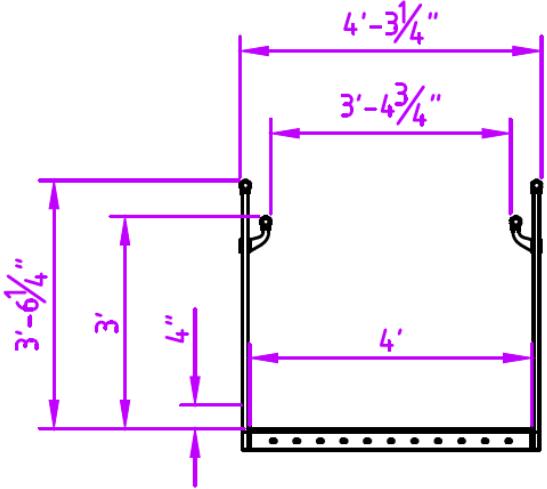
MINERAL FIBER – Standard

# **FLEXDECKS**

**Prepared for Michael Mitchener, Nan Inc  
Hilo Waste, Hawaii**

# RightWay Pro

## Public Access System

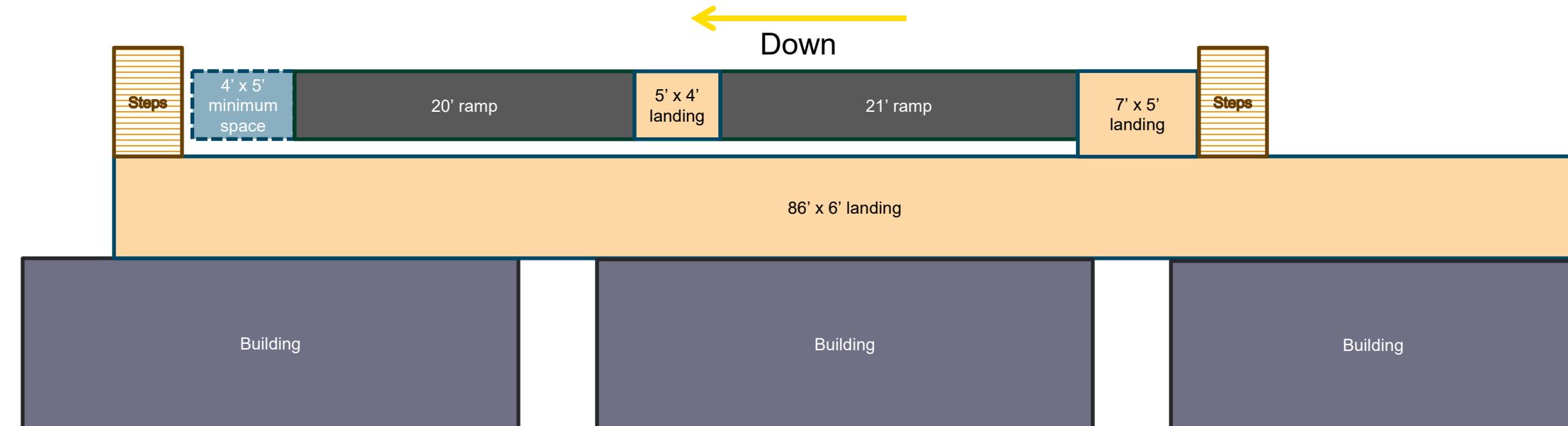


### SITE CHECKS

1. PLEASE CHECK THIS LAYOUT ON SITE TO ENSURE THAT THE RAMP AND PLATFORMS ARE CLEAR OF ANY FENCES OR OTHER OBSTRUCTIONS.
2. ARE ANY DOWNPipes, GAS OR ELECTRIC METERS INVOLVED?
3. DO ANY RAMP OR PLATFORM FLOOR PANELS NEED TO BE REMOVABLE FOR ACCESS TO DRAINS, MANHOLE COVERS, WATER METERS, ETC? IF SO PLEASE POSITION THEM AND RETURN THE DRAWING TO FLEXDECKS.

Layout Sketch by Matthew Brown  
5/5/2025

### RAMP CROSS SECTION



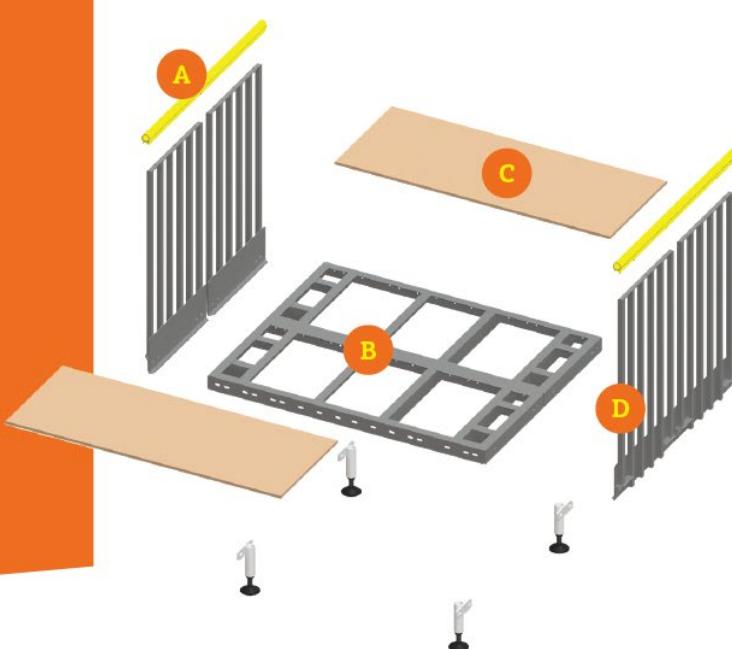
**FLEXDECKS**

# RightWay Pro

Public Access System

- A 'Warm to touch' PVC handrail tube
- B Lightweight aluminum alloy floor frames
- C Fiberglass mesh with exceptional level of slip resistance
- D 4in (100mm) max gap mill finish aluminum balustrade 42in (1070mm) high

Additional colors available



# RightWay Pro

Public Access System

**Modular** / Factory built for simple on-site installation to improve safety, reduce complexity, and ensure a consistent result.

**Fast** / Complete systems can be built in as little as a couple of hours.

**Cost effective** / Designed for rapid installation using common labor.

**Free standing** / Self-supporting and non-penetrating to future proof your application.

**Adjustable** / Components are configurable both in design and in the field, fit for purpose and adaptable to last minute changes.

**Premium** / Delivers a premium look and feel with durable color, sturdy bolted connections, and the best anti-slip grating in the market.

## Building regulations:

- + Americans with Disabilities Act 2010 Standards for Accessible Design
- + International Building Code 2024
- + National Building Code of Canada 2020
- + Ontario Regulation 191/11 Integrated Accessibility Standards

**FLEXDECKS**

# **Thank you for this opportunity to earn your business**

**Matthew Brown  
Senior Business Development Manager**

**[matthewb@flexdecks.com](mailto:matthewb@flexdecks.com)  
346-998-0205**



**FLEXDECKS**

**FlexDecks**

14325 West Hardy Rd, Houston,  
Texas, United States, 77060

**Quote****4805080000066183095**

Bill To	Ship To	Valid Until	Jun 4, 2025
<b>Nan Inc</b> 636 Laumaka St Honolulu Hawaii 96819		Terms	Net 30
		Sales Person	Matthew Brown

Item & Description	List Price	Qty	Discount	Amount
<b>Rightway Pro Ramp</b> 41" height for doors. Premium entrance includes a complete ADA deck, ramp, and stair system, ready to install without added groundwork. Superior slip resistance, durable color, military grade quality for years of maintenance free performance that installs in days. ADA and IBC compliant design out of the box.	\$ 62,997.66	1	\$ 0.00	\$ 62,997.66
<b>Freight Shipping</b> No charge for pickup in Houston TX, commercial freight through ESTES available	\$ 0.00	1	\$ 0.00	\$ 0.00
<b>Optional FLD Site Visit to oversee assembly/installation (1 mobilization)</b> Includes install supervision and sign off certification of manufacturer spec. Included at no charge for this project.	\$ 0.00	1	\$ 0.00	\$ 0.00

**Sub Total** **\$ 62,997.66****Discount** **\$ 0.00**Tax **\$ 0.00****Grand Total** **\$ 62,997.66****Terms & Conditions**

FlexDecks brings decades of platform excellence to deliver professional results. RightWay Pro is a world class, premium access system that delivers extreme slip resistance, premium components and aesthetic, with durable color for permanent, non-penetrating installation.

By accepting this quote, you agree to all of our standard terms and conditions outlined in the linked document below.

[\*\*FlexDecks Standard Terms & Conditions\*\*](#)

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

NOTE: MOUNT ALL XM &amp; OR TABS UNDER TOP I-BEAM FLANGE

LIPPERT

BY

DJS

REV.

A

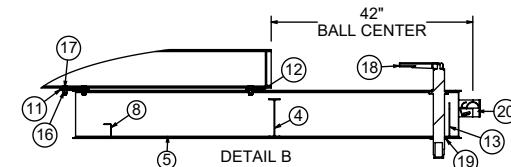
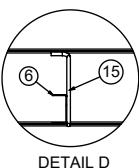
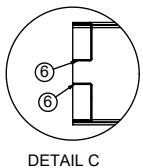
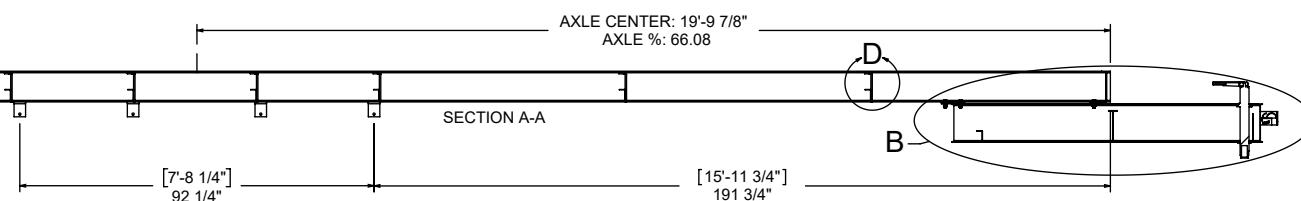
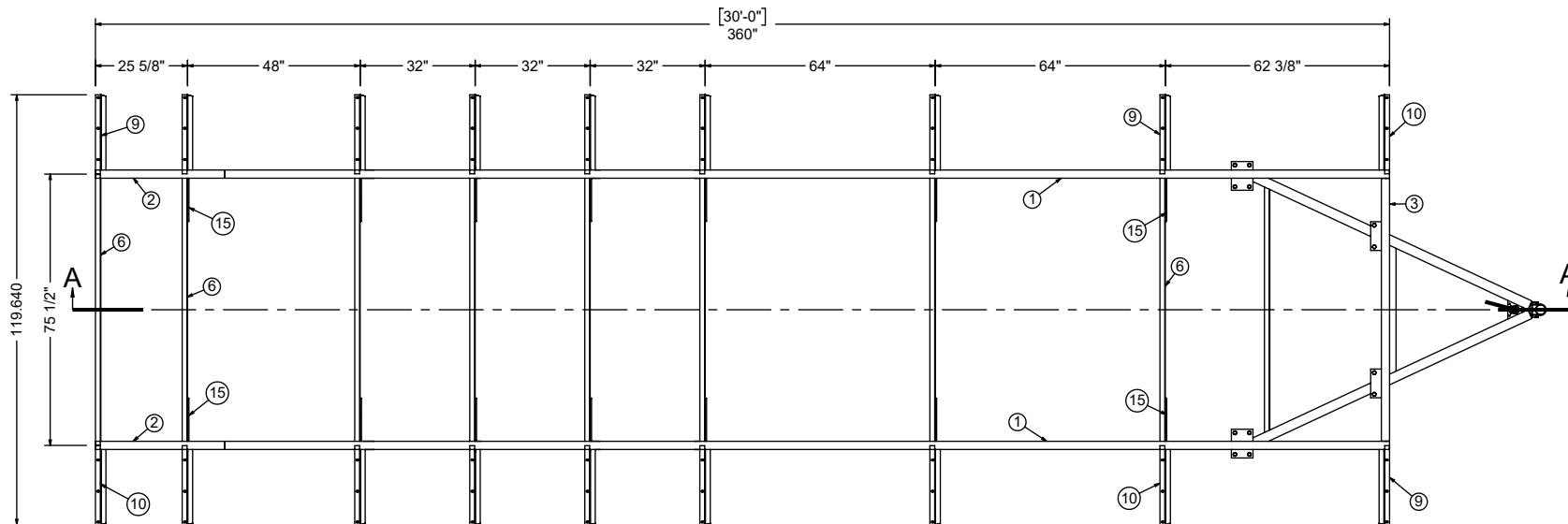
REVISION DESCRIPTION

DATE

3/4/2025

NEW CHASSIS

10'X30' TRAILER



PMND-120 X 360-120 X 402-M8X6.5-E3-75.5-UDH-M10X8

## NOTES:

1. BLOW (3) HOLES IN THE TOP FLANGE OF FXM
2. ORTRIGGERS SHIPLOOSE

OVERHANG 1/2" REAR	FLOOR JOIST 16" O.C.
-----------------------	-------------------------

ITEM #	PART #	DESCRIPTION	Name	GA	QTY.	ITEM #	PART #	DESCRIPTION	Name	GA	QTY.
1	1168945090	IBEAM M8 X 6.5 L324 IN	IBEAM		2	11	104400	PLT L8" X 6" X 0.250	PLT	3	4
2	116894482	IBEAM M8 X 6.5 L36 IN	IBEAM		2	12	104399	PLATE L8" X 4" X 1/4" W/ HOLES		1/4	4
3	1168941076	IBEAM M8 X 6.5 L73.125 IN	IBEAM		1	13	727142	PLT L7 1/8" X 4" X .120	PLATE	11	5
4	116894514	IBEAM M8 X 6.5 L38 IN	IBEAM		1	14	102538	PLATE L3" X 2" X 0.250	PLT	2	4
5	1168881314	IBEAM M10X8 L88 IN	IBEAM		2	15	100651	ROD 15.00 X 2.00 X .38 BENT	ROD	3/8	14
6	117149	75.250x3.000x1.500x1.500	XMC	13	9	16	119092	NUT - 5/8 - 11; NYLON LOCK NUT	FASTEN	-	12
7	106183	XMC 2.354 X 3.870 X 3.870 X .224 L3"	XMC	4	8	17	118416	BOLT - 5/8 - 11 X 1.5; BLACK PHOS	FASTENER		12
8	129573	69 3/4"X3"X1 1/2"X1 1/2"	XMC	13	1	18	129794	VENTURE 12,500# 60° MH JACK	JACK	.	1
9	137766	22" X 7 1/4" X 1 1/2" X 1 1/2"	RHORZ	13	9	19	191605	PLATE 7" X 3 1/2" X .188	PLT	3/16	1
10	137765	LHORZ 22" X 7 1/4" X 1 1/2" X 1 1/2"	LHORZ	13	9	20	129795	VENTURE 2 5/16 60° COUPLER 50K#	PURCH	.	1

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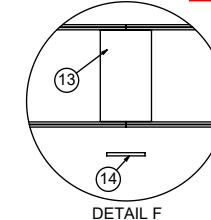
DRAWN BY **D. STAUFFER** REV. **A** DATE: **7/19/2007**  
PAGE: **1 OF 3**

NOTE: MOUNT ALL XM & OR TABS UNDER TOP I-BEAM FLANGE

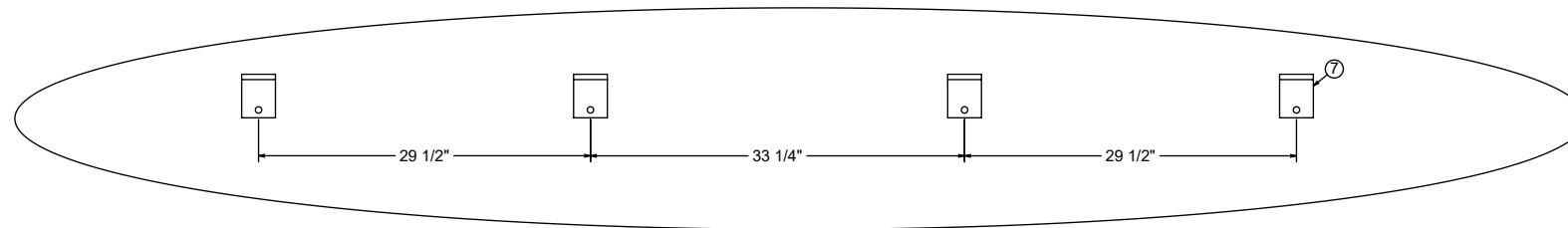
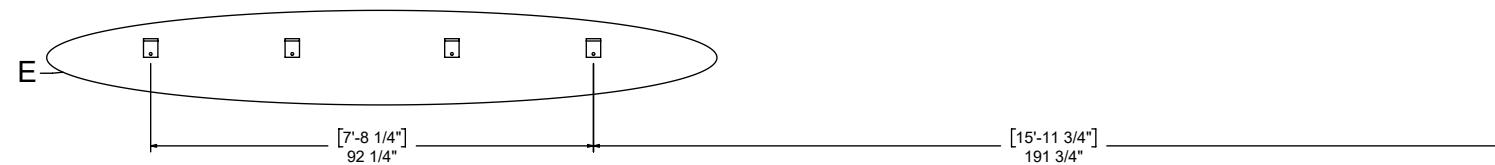
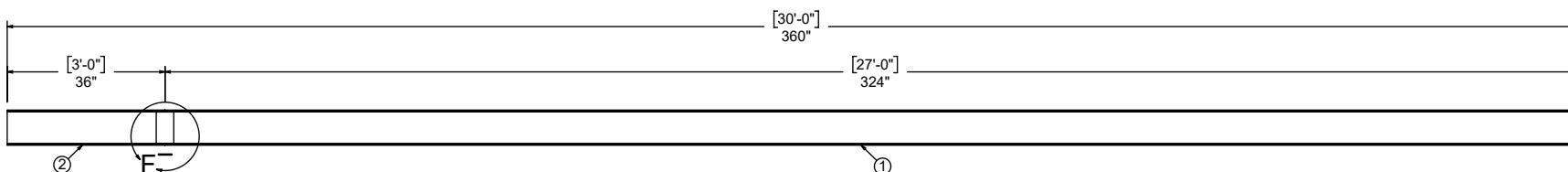
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- 120 X 360 120 X 402 E3

10'x30' TRAILER



DETAIL F



DETAIL E

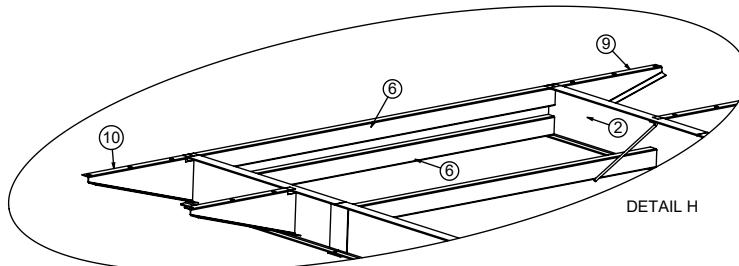
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DRAWN BY <b>D. STAUFFER</b>	PAGE: 2 OF 3		

NOTE: MOUNT ALL XM & OR TABS UNDER TOP I-BEAM FLANGE

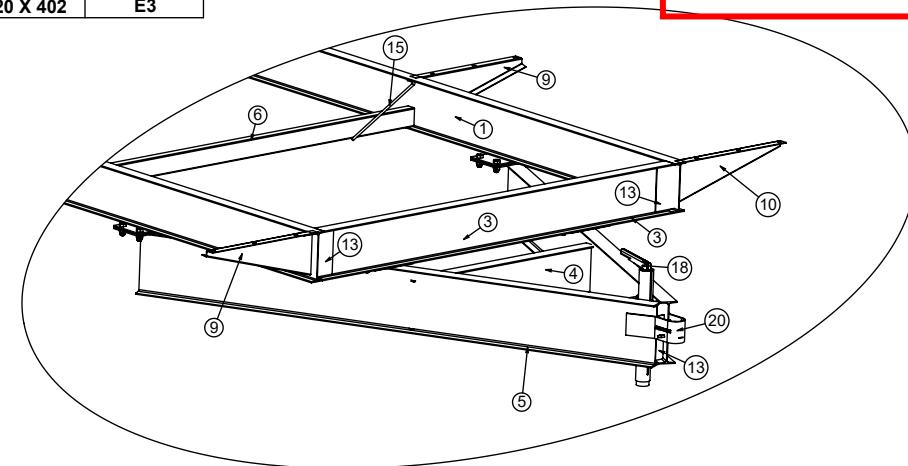
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120 X 360 120 X 402 E3

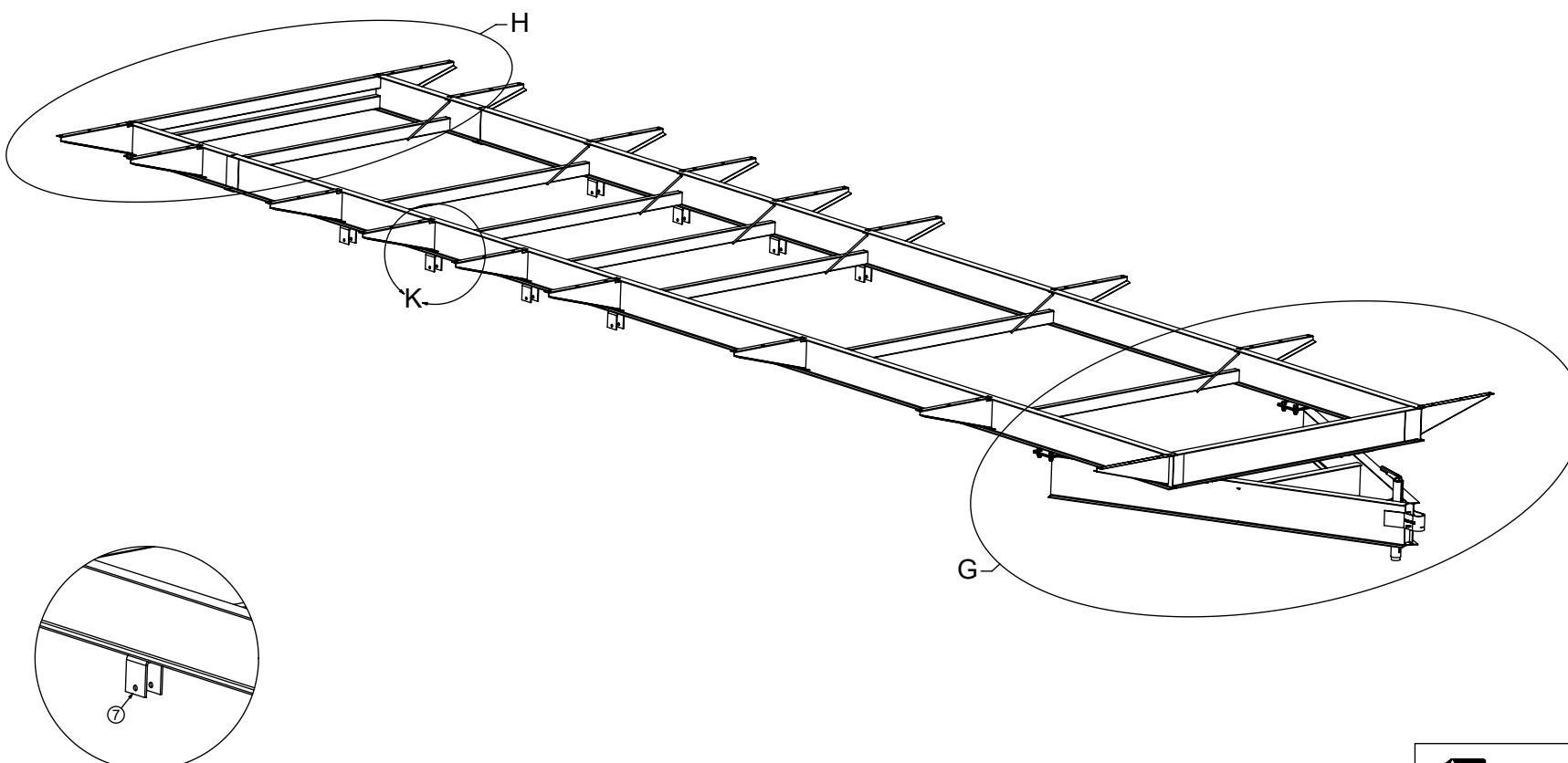
10'x30' TRAILER



DETAIL H



DETAIL G



DETAIL K

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DATE: 7/19/2007	PAGE: 3 OF 3

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BY

DJS

REV.

A

REVISION DESCRIPTION

DATE

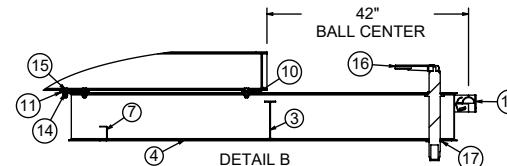
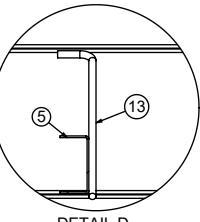
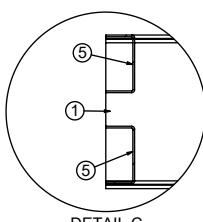
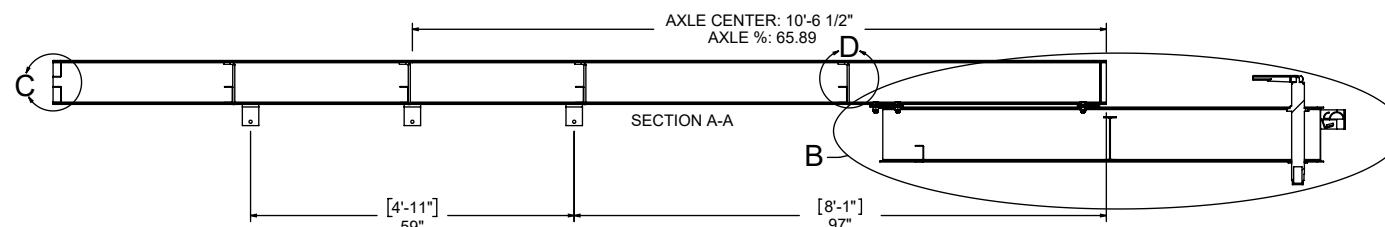
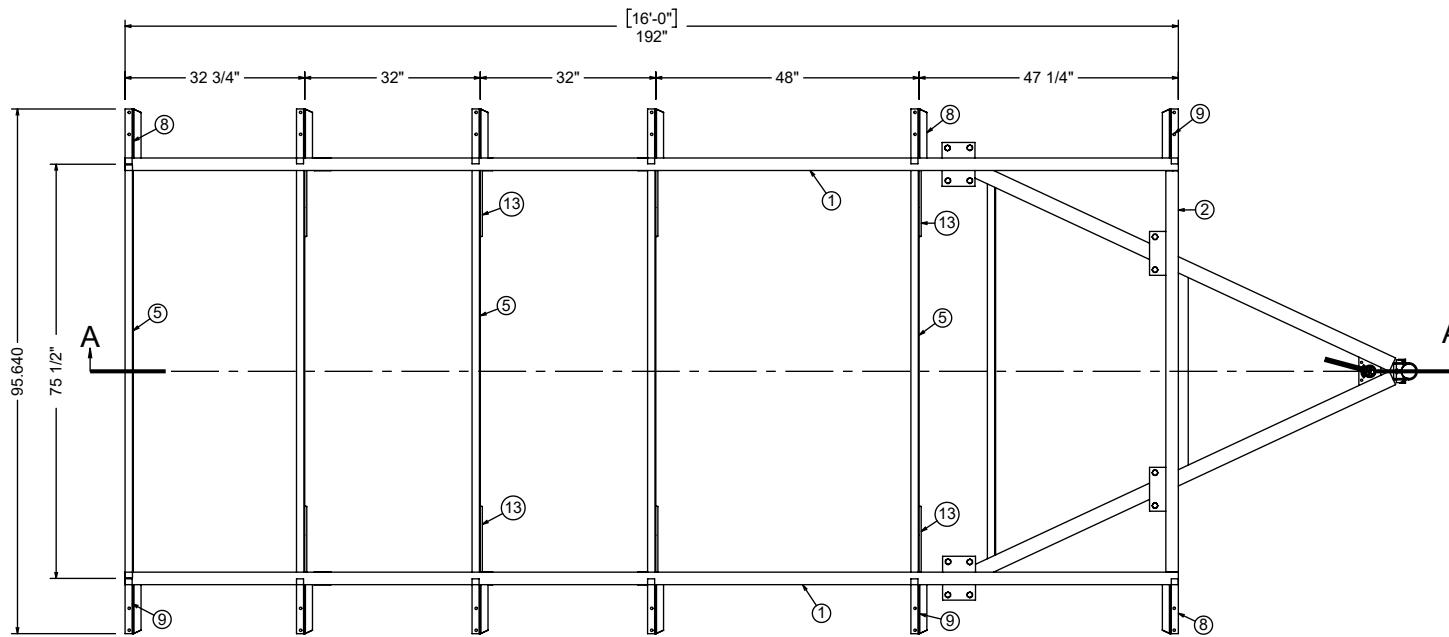
3/4/2025

APPRV

96 X 192

96 X 234

E3

8'x16' TRAILER  
(BATHROOMS)

PMND-96 X 192-96 X 234-M8X6.5-E3-75.5-UDH-M10X8

OVERHANG	FLOOR JOIST
1/2" REAR	16" O.C.

NOTES:  
1. BLOW (3) HOLES IN THE TOP FLANGE OF FXM

ITEM #	PART #	DESCRIPTION	Name	GA	QTY.	ITEM #	PART #	DESCRIPTION	Name	GA	QTY.
1	1168942978	IBEAM M8 X 6.5 L192 IN	IBEAM	2	10	104399	PLATE L8" X 4" X 1/4" W/ HOLES			1/4	4
2	1168941076	IBEAM M8 X 6.5 L73.125 IN	IBEAM	1	11	104400	PLT L8" X 6" X 0.250	PLT	3	4	
3	116894514	IBEAM M8 X 6.5 L38 IN	IBEAM	1	12	727142	PLT L7 1/8" X 4" X .120	PLATE	11	2	
4	1168881314	IBEAM M10X8 L88 IN	IBEAM	2	13	100651	ROD 15.00 X 2.00 X .38 BENT	ROD	3/8	8	
5	117149	75.250x3.000x1.500x1.500	XMC	13	6	14	119092	NUT - 5/8 - 11; NYLON LOCK NUT	FASTEN	-	12
6	106183	XMC 2.354 X 3.870 X 3.870 X .224 L3"	XMC	4	6	15	118416	BOLT - 5/8 - 11 X 1.5; BLACK PHOS	FASTENER		12
7	129573	69 3/4"X3"X1 1/2"X1 1/2"	XMC	13	1	16	129794	VENTURE 12,500# 60° MH JACK	JACK	.	1
8	124184	10"X7"X1 1/2"X1 1/2"	RHORZ	13	6	17	191605	PLATE 7" X 3 1/2" X .188	PLT	3/16	1
9	124183	10"X7"X1 1/2"X1 1/2"	LHORZ	13	6	18	129795	VENTURE 2 5/16 60° COUPLER 50K#	PURCH	.	1

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DRAWN BY **D. STAUFFER** REV. **A** DATE: 05/27/2014  
PAGE: 1 OF 3

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LIPPERT

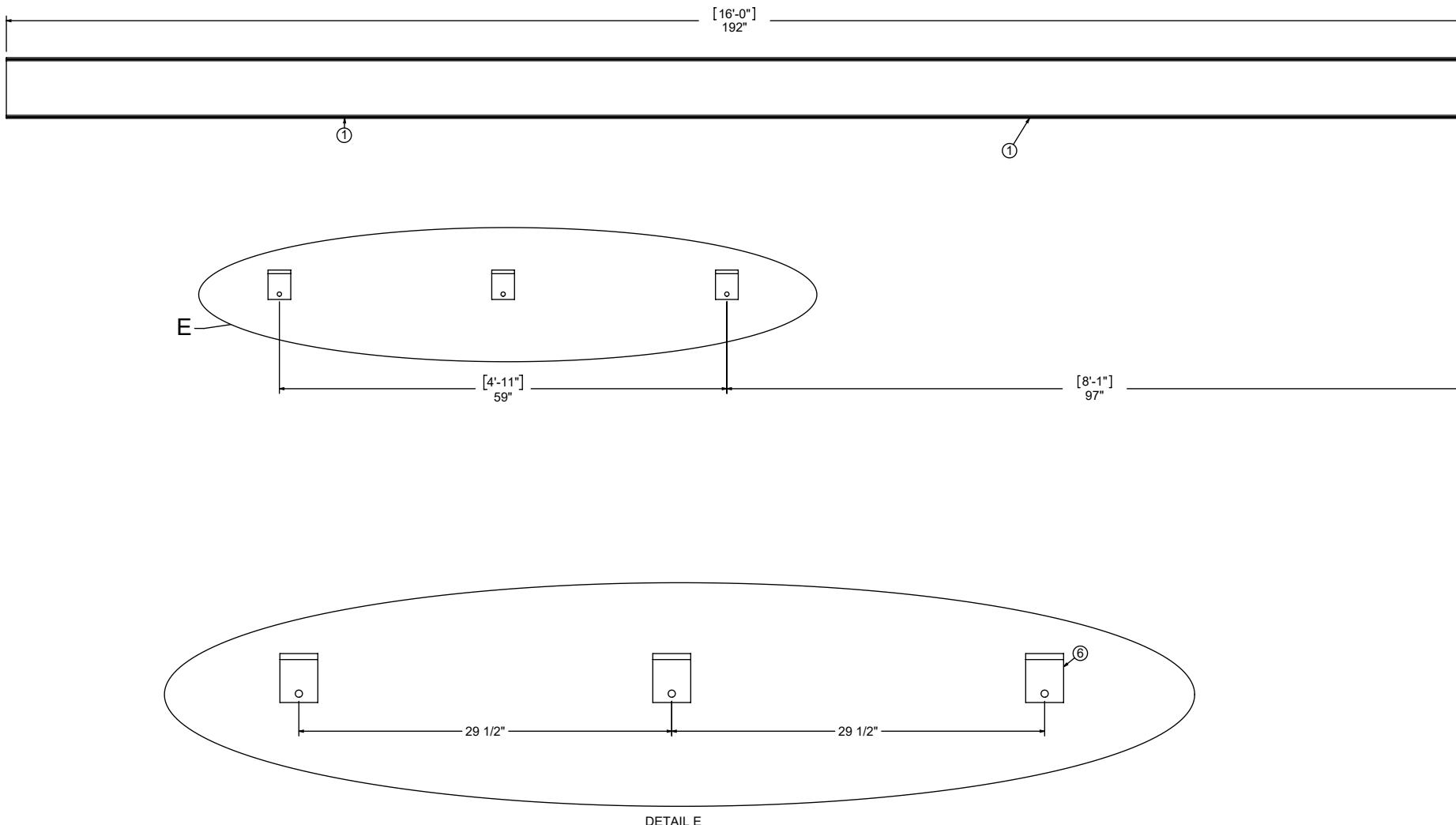
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96 X 192

96 X 234

E3

8'x16' TRAILER  
(BATHROOMS)



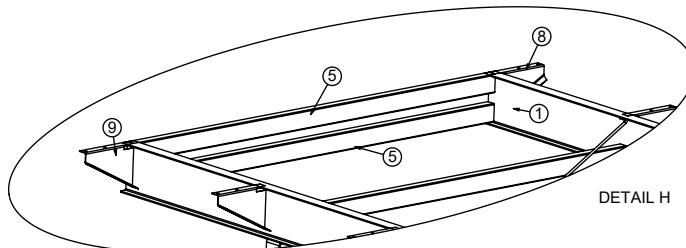
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DRAWN BY	REV.
<b>D. STAUFFER</b>	<b>A</b>
DATE: 05/27/2014	PAGE: 2 OF 3

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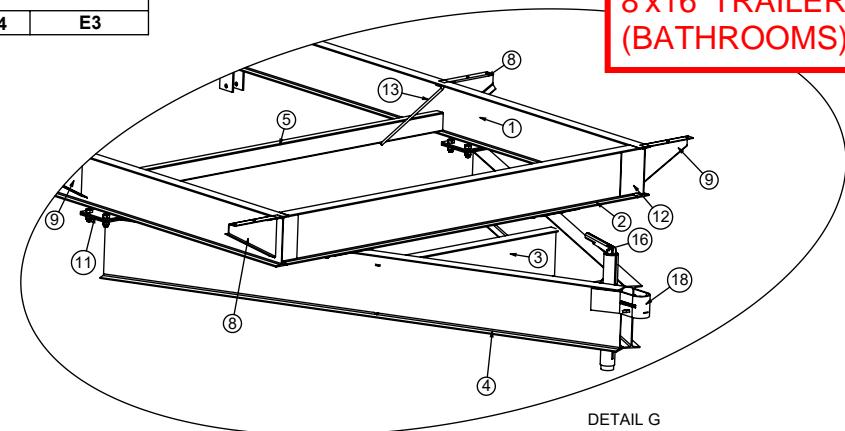
LIPPERT

96 X 192 96 X 234 E3

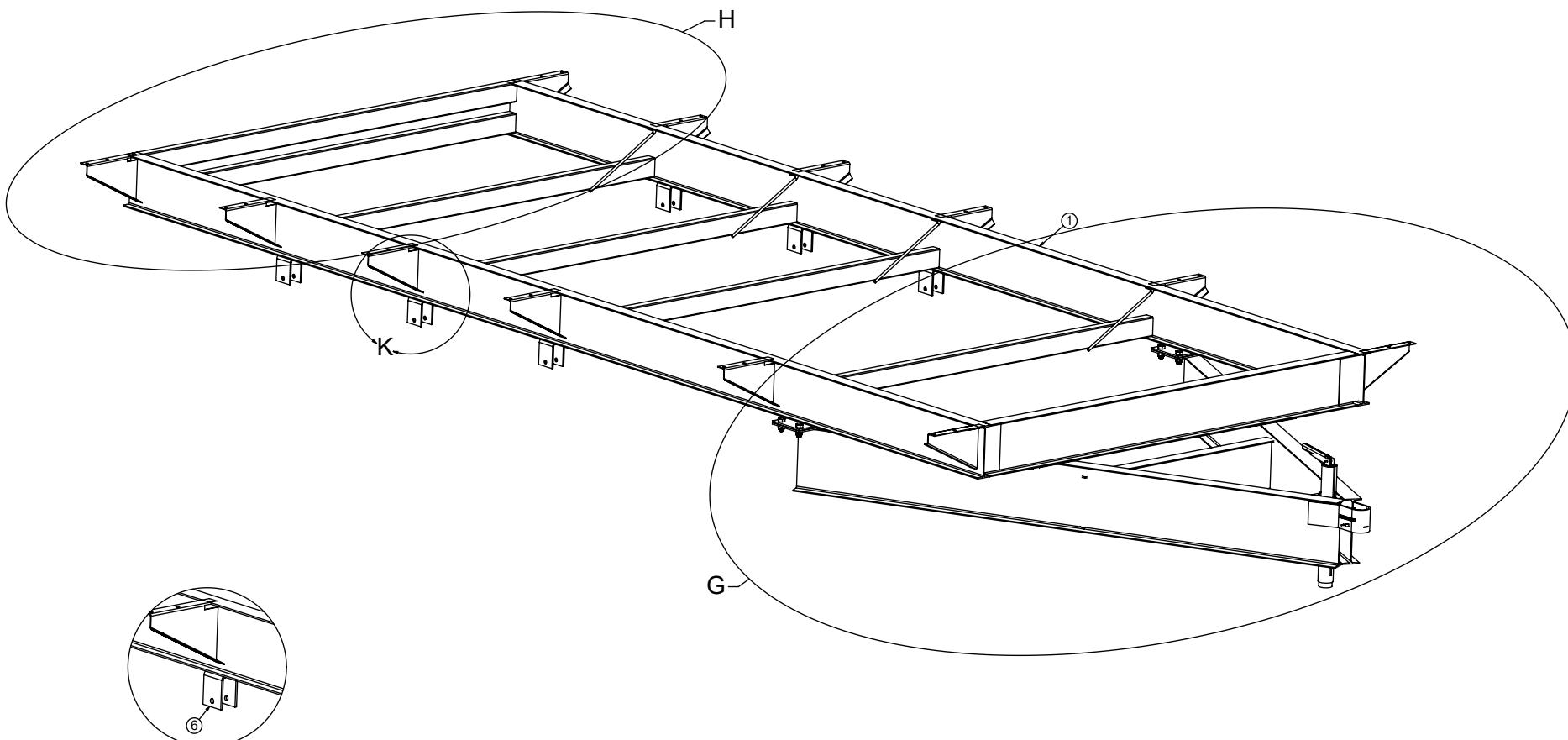
8'x16' TRAILER  
(BATHROOMS)



DETAIL H



DETAIL G



DETAIL K

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DRAWING NUMBER	CUSTOMER #
<b>2025015774</b>	<b>000107</b>
DRAWN BY	REV.
<b>D. STAUFFER</b>	<b>A</b>
DATE: 05/27/2014	PAGE: 3 OF 3