

Basis of Design:

A001

A002

A100

A111

A150

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A401

**Architectural** 

Cover Sheet

Schedules

Site Plan'

Sheet Index, Code Study, Scope of Work

Excavation, Clearing, Drainage

Plan View Roof Level - Floor 4

Enlarged Entry / Bath / M. Bedroom

Enlarged Kitchen / Living / Office

Enlarged Entry Plan, 1st Floor

Overall Building Plan

Plan View Floor 1

Plan View Floor 2

Plan View Floor 3

Garage Floor Plan

Typ Unit Plan

AASGUTÚ HÍT

CONSTRUCTION DOCUMENTS

SHEET TITLE: SHEET INDEX, CODE, SCOPE

DRAWN:

04.29.2024

MR۱

PV

Size and Configuration: The project includes a six-plex three story housing unit, and a detached associated parking garage. The two are linked by an open breezeway connecting the upper garage to an elevator lobby located at street elevation, five stories above the lower site level of the six-plex.

2021 IBC as adopted by the State of Alaska

The six-plex housing unit has a base floor elevation of 29', 4' above the FEMA flood mapping height iurisdiction of 25'. Floor 2 is at elevation 40'. Floor 3 at 51', a small mechanical room is at elevation 61', and elevator lobby at 70', matching the garage elevation. The housing building totals 9,000 sq.ft. of enclosed space, with six units at 1,500 sq.ft. each. The garage measures 23' x 64', or 1,150 sq.ft. of enclosed space, with 400 sf. of covered car port.

## **CBJ PLANNING REQUIREMENTS:**

2021 NEC

2021 IMC

2015 UPC

Zoning and Density: The property is zoned D-18. The lot measures 51,184 sq.ft., roughly 1.2 acres. That generates a maximum housing unit count of 22, well-above the intended six units.

Dimensional Standards, Setbacks: D-18 requires 20' front setback, 5' side setback, and 10' rear property setback. All requirements are met, with the garage set at 20'-2" off of the property line along Douglas Highway. All other side and rear actual setbacks are 65' to 100'.

Dimensional Standards, Height: D-18 stipulates a maximum of 35' for average roof height. The three-story housing portion of the building complies with this requirement, measured from an exterior grade plane of 28'-6". The roof averages 63' in height to the fascia top.

Elevator Height Exemption: Per 49.25.420 (c) 1, "height limitations stipulated in this section shall not apply to tanks, church spires, cupolas, hose towers ....and other similar structures or facilities." The elevator, lobby, and supporting structure do not create occupied space, and are a critical element to provide an accessible route to the occupied levels of the facility. Further, the elevator tower extends 14' above the upper site portion grade plane, with minimal impact on adjoining properties or view.

Parking: Per CBJ 49.40.210, parking requirements for two-bedroom units located out of the town center is 1.5 stalls, generating a requirement of 9 stalls for this building. Since our required parking is less than ten, no dedicated ADA or visitor stalls are required.

Six parking spots will be provided in the enclosed garage structure. Three additional spots will be provided at the exterior site development, one with a partial roof cover, and two open-air. In addition to the nine off-street spots provided, additional parking stalls are indicated on the site plan on DOT property. Those would be implemented with a negotiated lease after construction.

## **CODE ANALYSIS:**

Chapter 4:

Chapter 5:

Per 310, the six residential units will be classified as R-2 occupancy. The private Chapter 3: garage is classified as a U occupancy.

> Per 420.2: Walls separating housing unit spaces shall be fire partitions per 708. Per 420.4, Group R occupancies shall be constructed with fire sprinklers per 903.2.8. Per 420.5, Group R-2 occupancies shall include fire and smoke alarms per 907.2.9.

Per 502.1: Building address and identification shall be provided as noted.

Per Table 504.3: Both residential building portion and enclosed garage will be constructed per Type V-B. R-2 allows three stories above grade, or 60' above grade

Per Table 506.2, with full sprinklers, R-2 Type V-B has a base allowed size per floor of 21,000 sq.ft. The base allowable area is 63,000 for the R-2 structure, well-above the actual 9,000 sq.ft.

Chapter 7: 708.3: Fire partitions, exception 2: buildings of Type V-B with automatic sprinkler system per 903.3.1.1 shall have fire-resistance ratings of not less than ½ hour.

903.2.8: Sprinkler system will be provided per 903.2.8. Given that the height above grade plane and fire department vehicle access point exceeds 40' in height, a full

sprinkler system will be required for the housing units. Sprinkler standpipes will be provided in the exterior stairwell as determined by the Fire Department. The covered exterior stairway, garage, and open breezeway will not be sprinklered.

907.2.9.1: Fire and smoke alarms: Per Exception 3, 907.2.9.1, a building-wide manual fire system is not required.

3002.4: Elevators: Since the building elevator serves five levels (3 occupied housing levels, mechanical, and arrival lobby), It is required for the elevator to be sized to

handle an ambulance stretcher measuring 24" x 84". The elevator provided meets this criterion.

Description: Aasgutù Hìt ("House in forest") is a new facility with six residential units and a separated enclosed garage, connected by a breezeway and elevator. The project is located on undeveloped Douglas Island waterfront property near

The property will be developed with a three-story residential complex built on the existing pad at the base of the steep forested slope. The development will include six residential condominium units, and a separate heated garage, set at highway elevation. The six condominiums are nearly identical, each with two bedrooms and two bathrooms, mirrored on the building centerline.

Parking will be provided along the highway, matching the elevation of the roadway. Each housing unit is provided one covered parking space. The three exterior spaces will be designated for visitors, including one which adjoins the walkway for pick-up and drop-off, mail use, and emergencies.

To access the housing units, a covered breezeway adjoins the garage, extending horizontally through the trees until it meets an enclosed elevator tower with access to the units below. A covered stair also extends down from the elevator entrance, allowing safe egress up or down in a power outage. A limited number of trees will be cut for construction of the enclosed garage.

Housing Details: The high-quality living units will provide best-in-class energy efficiency, and full ADA accessibility. The elevator, extending five stories from the parking elevation, will be large, rated at 4,000 lbs, and sized for a gurney, per elevator code standards. The elevator will be programmed to provide access to each unit for that owner only. All residents will have additional elevator access to a shared lobby at the lowest floor of the building, providing an accessible route to the beach zone.

Each condominium unit totals 1,500 sq.ft. of enclosed living space, with shared exterior stairs and decks. The unit plans include two large bedrooms, a primary bathroom, a secondary bathroom with washer/dryer, entry fover, and an open central "great room." The great room combines kitchen, dining room, living room, and small den area

Energy efficiency and low maintenance construction is emphasized throughout. The building will be constructed with highly insulated exterior walls and roof details, and windows will utilize fiberglass triple glazing. Heating will be provided by in-floor hydronic heating with air-source heat pumps. Heating and domestic hot water systems will be centrally produced, then serve all six units. Mechanical systems are located in two small spaces on the fourth floor, underneath the elevator and lobby at the fifth floor. Ventilation will be provided by a dedicated HRV unit located within each unit.

The exterior will feature Kynar-finished corrugated metal wall panels, accented by vellow cedar trim bands and structural members. Roofing will utilize a fully adhered EPDM rubber membrane. The roof is designed in a low slope "butterfly" configuration, rising toward the water face, and the east/west sides. Runoff drains to the backside, with a "rain chain" drainage to a collection feature at the around line.

The interior of the units will include 3" stained concrete floors throughout. The concrete floors provide thermal mass, and excellent acoustic separation between units. All finish materials will be low-voc and sustainable. Ceilings within the units will step up toward the view, with windows featuring the waterfront from both the living room and the primary bedroom. The second and third floor units will include a balcony. Units on the first floor will include exit doors to the water-side exterior, with private terrace space protected by the balcony roofs above. Sleeping spaces include egress-scale casement windows.

Exterior site work will include a path to the beach from the shared elevator access. This route, looping around the up-channel or northwest end of the building, will provide a gentle and accessible path to the intertidal zone and beach, with a shared fire pit area. The design of the project includes a potential future storage space under the garage. This area will be accessed by the elevator from the fourth floor, with a future walkway underneath the fifth-floor

Utilities and Systems: Power, data, and water will be provided to the housing units from the upper site portions along Douglas Highway. Utilities will be buried, then extend to the housing unit underneath the breezeway, utilizing a chase with insulated pipe and heat trace, and conduit for power/data. A full sprinkler system will be provided for the housing. Sewer will tap to the sewer main already in place immediately in front of the facility.

### Enlarged Plan, North Wall M501 **Building Section Building Section** Garage Section **Building Elevations**

A402 **Building Elevations** A403 **Building Elevations** A404 **Building Elevations** A405 Garage Elevation A406 Elevation Enlargement A407 Walkway Garage Elevation A601 Kitchen Enlarged Plan A602 Kitchen Flevations

A603 Living Dining Elevation A701 Typ Exterior Details A702 Plan Details A703 Plan Details A704 Section Details A705 Section Details

A706 Typical Exterior Details A707 Typical Exterior Details Garage Details A708 A709 Garage Details A710 Roof Details A711 **Deck Details** A801 Interior Details

A802 Bathroom Elevations A803 Bathroom Elevations Reflected Ceiling Plan Floor 1&2 A901 A902 Reflected Ceiling Plan Floor 3

Structural General Notes

# Structural

S001

S101

S102 Typical Details S201 Foundation and 1st Floor Framing Plan S202 2nd Floor Framing Plan S203 S204 3rd Floor Framing Plan 4th Floor and Roof Framing Plan S205 5th Floor Framing Plan S206 Garage Framing Plan Storage Deck Plan Additive Alt. S207 S300 Foundation and 1st Floor Framing Plan S301 Foundation Details S302 2nd & 3rd Floor Details S303 Roof Framing Plan S304 Details S305 Section S306 Garage Details S307 Sections Garage Details

S308 S309 Details S310 Sections

S402 Foundation Bracing Add. Alt. S403 Garage Sections S404

Garage Section

M101

Symbols & Abbrevations, Scope of Work, General Notes M102 Schedules M201 Site Plan

M202 Foundation Plan M203 Floor Plan 1 M204 Floor Plan 2 M205 Floor Plan 3

Floor Plan 4, Mechanical Room

M206 Plans & Diagrams Plan View Walkway/Elevator Lobby- Floor 5 M207 Floor Plan 5, Details M301 Floor 1 Radiant Plan Floor 2 Radiant Plan M302 M303 Floor 3 Radiant Plan M304 Floor 5 Radiant Plan

> M401 Plumbing Diagram Specifications

# Electrical

Legend & Abbrev. Notes & Spec Single Line, Exterior Lighting, Fire Alarm Floor 1 Power Plan. Sheet Notes Floor 2 Power Plan, Sheet Notes Floor 3 Power Plan, Sheet Notes Level 4/roof Plan, Sheet Notes Level 5/Flevator, Sheet Notes

E302 Floor 3 Lighting Plan, Sheet Notes E303 Floor 1 Signal Plan, Sheet Notes Floor 2 Signal Plan. Sheet Notes Floor 3 Signal Plan, Sheet Notes F403

E500 Panel Schedules

E101 F201 E202 E203 E204 F205

E206 Garage/Walkway/Power/Lighting/Signal Plan Floor 1 Lighting Plan, Sheet Notes E301 Floor 2 Lighting Plan, Sheet Notes

E401 E402

**Typical Details** 

S401 Garage Sections

Foundation Bracing Base Bid

S405 Foundation Bracing Base Bid S406

NOTE: 11"x 17" PRINT IS HALF SIZE

Chapter 9:

Chapter 30:

DATE:

CHECKED:

		ΑΤΙ	

WD	Wood Door with Veneer Finish, premium grade, cherry, plain sawn, no match
FG	Fiberglass, Door or Frame, with urethane painted finish, 1 3/4" thickness, Edgewater or equal
IM	Insulated Metal with Factory Finish as noted
SC	Solid Core Wood Door Construction, 2" overall thickness
HC	Hollow Core Wood Door Construction, 1 1/2" overall thickness
IN	Insulated Door Core with Fiberglass Doors
PD	Pocket Door with steel frame, Johnson Hardware, 1500 SC or equal
	GENERAL PRODUCT REQUIREMENTS

Wood doors and frames are finished prior to installation with oil-based urethane satin varnish, UV stabilized. Min 2 coats. Fiberglass doors are finished with two coats oil-based urethane paint prior to installation. All doors, unless otherwise noted, are flush face style. By-pass slilder doors include overhead heavy-duty hardware concealed by head trim construction. Slider doors stop at gypsum side walls, with high/low minimal burnoers.

### NOTES

<ol> <li>Door with custom vertical lite, full height. Vancouver Door WL-7 or equal</li> </ol>		
2	Door incorporates 1/2 lite, 1" insulated glass, low-E, clear tempered	
3	Door incorporates full lite, 1" insulated glass, low-E, clear tempered	
4	Custom gate by Owner, installed by Contractor. Fiberglass jamb frame by Contractor	

## PRODUCTS LIST / FINISH SCHEDULE:

### FXTFRIC

<u>Walls</u>: The exterior walls of the building will be finished with metal siding, metal flashing, structural sawn members, structural glulams, and cedar trim of various sizes as detailed. The glulams will be a combination of Douglas-fir preservative-treated doug fir, and yellow cedar, as detailed. All untreated exterior wood will receive one coat of "Cedarshield" penetrating preservative.

Siding will use corrugated siding, placed vertically with stainless steel exposed fastners. Panels will be 26-gauge, with fluorpolymer finish, Kynar or Duranar. Two colors will be selected. Fascia and miscellaneous flashing will be 22 gauge, with Kynar finish. The typical fascia will include concealed wind clips.

Weather barrier behind the siding and trim will be vapor-permeable, while wind and water-proof. Basis of design is Vaproshield.

The base of the wall includes a flashed and insulated detail that avoids thermal loss at grade. Primary building foundations will include a continuous rigid board insulation substrate of 4" Foamular or equivalent with appropriate bearing capacity per structural.

<u>Windows</u>: Windows will utilize Cascadia triple-glaze fiberglass frames. Glazed units will include operable lites where illustrated for bedrooms and dining. Window installation will include bituthene wrap on all four sides, coordinated with Cascadia dam at sill.

Roofing: Roofing includes .060 adhered EPDM roofing with 15-year warranty, Carlisle or equivalent system. Elevator tower extension includes adhered EPDM on sides and top. Two 2x4 skylights by Velux or equal, provided at primary bath, top floor.

Railings: Railings wil utilize 4" x 4" yellow cedar posts at 4'0" oc, with 3/32" ss cable at 3" oc, with 2 1/2" x 5" top yellow cedar cap. Attachments to beam and concrete side walls will utilize 4" x 4" x 7" x 1/4" galvanized angle brackets each side with ss 3/8" through-bolts.

Doug Fir/Spruce: Other softwoods will utilize a similar "cedarshield" finish.

<u>Cedar</u>: Yellow cedar trim will use tight-knot select structural, finished with one coat of penetrating "Cedarshield" treatment. Fasteners will utilize stainless steel screws and lags, with plugged holes in visible locations.

<u>Door:</u> Exterior doors at garage and decks will use insulated fiberglass doors and frames. Doors will include a half-lite, with tempered insulated low-E glass. Basis of design is "Edgewater". Entrance doors at residential units utilitze veneer wood doors by Vancouver.

### INTERIOR

Concrete Floors: All interior floors will utilize polished concrete except for the primary bathroom. The first floor is a structural slab, 4" thickness. At floors 2 and 3, 3" of reinforced concrete is placed over structural ply. Polished concrete at all interior locations will be finished to a level 2, satin finish. The Level 2 honed finish utilizes a 400-grit final finish step. Concrete surface at the balcony or exterior deck at first floor is thermally isolated from interior, has a broomed finish, sloped to drain.

Walls and Ceilings: Interior walls and ceilings will utilize 5/8" type X gypsum wall board with a level 4 smooth finish. All walls and ceilings will be painted with a single flat finish in the typical rooms, with a satin finish in the bathrooms. Finish ceilings will be furred with 2x4 wood framing at 2'0" oc., installed below the structural ceiling or roof assembly above, with supports to structure above at no more than 6' spacing.

<u>Bathroom Wall Tile</u>: Shower enclosure in the primary bathroom will include wall tile full height, all sides. The exterior of the wall between the shower and the toilet will also be tiled full-height. In the secondary bathroom, wall tile will be used on three sides surrounding the tub, full height. Floor in primary bath will use tile at all portions, including walk-in shower. Floor within shower will slope to trench drain. Basis of design: Mosa 'Solids' 2'x2'.

Alternate Wood Slat Ceiling: In the Kitchen/Dining/Living ceiling portions, an upgrade improvement will be priced for deleting gypsum wall board, and substituting a wood slat ceiling. The wood slats will be 5/8" x 2 ½" spruce, running parallel to the side walls, with 3/8" gap between. They will be supported on 2x2 wood furring on 3'0" spacing, and tied to structure above. 4" acoustic batt insulation will be loose-laid over the slats. Underside of batt will be spraypainted black before placement. Slats will be sanded with 220 grit, with one coat of flat clear acrylic finish.

<u>Kitchen Tile</u>: Tile will be installed in the kitchen between the countertop and overhead cabinets. Tile will be provided by Owner, installed by Contractor.

<u>Countertops</u>: Countertops for kitchen and bathroom lavatories will be stone (granite, soapstone, basaltina) or synthetic quartz as selected by Owners from high-end product ranges.

Elevator: Elevator will be electric traction by Otis or Thyssen. 4,000 lb, and sized for gurney use. Basis of Design: Door: 3'-6" (5) front & (3) rear Cab: Applied Laminate panels w/powder coat. Doors inside: Finished with #4 brushed stainless steel

Doors outside: Finished with Powder Coat
Ceiling: Downlight finished with #4 brushed stainless steel
41'-0" of net travel, Pit at 5'-0" min., Clear overhead at 12'-8"
200 FPM

Card Reader provisions (at each hall entrance)





MRV ARCHITECTS 1420 GLACIER AVE. #101 JUNEAU, AK 99801 907-586-1371 FAX 907-463-5544 mrv@mrvarchitects.com

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SHEET TITLE: SCHEDULES

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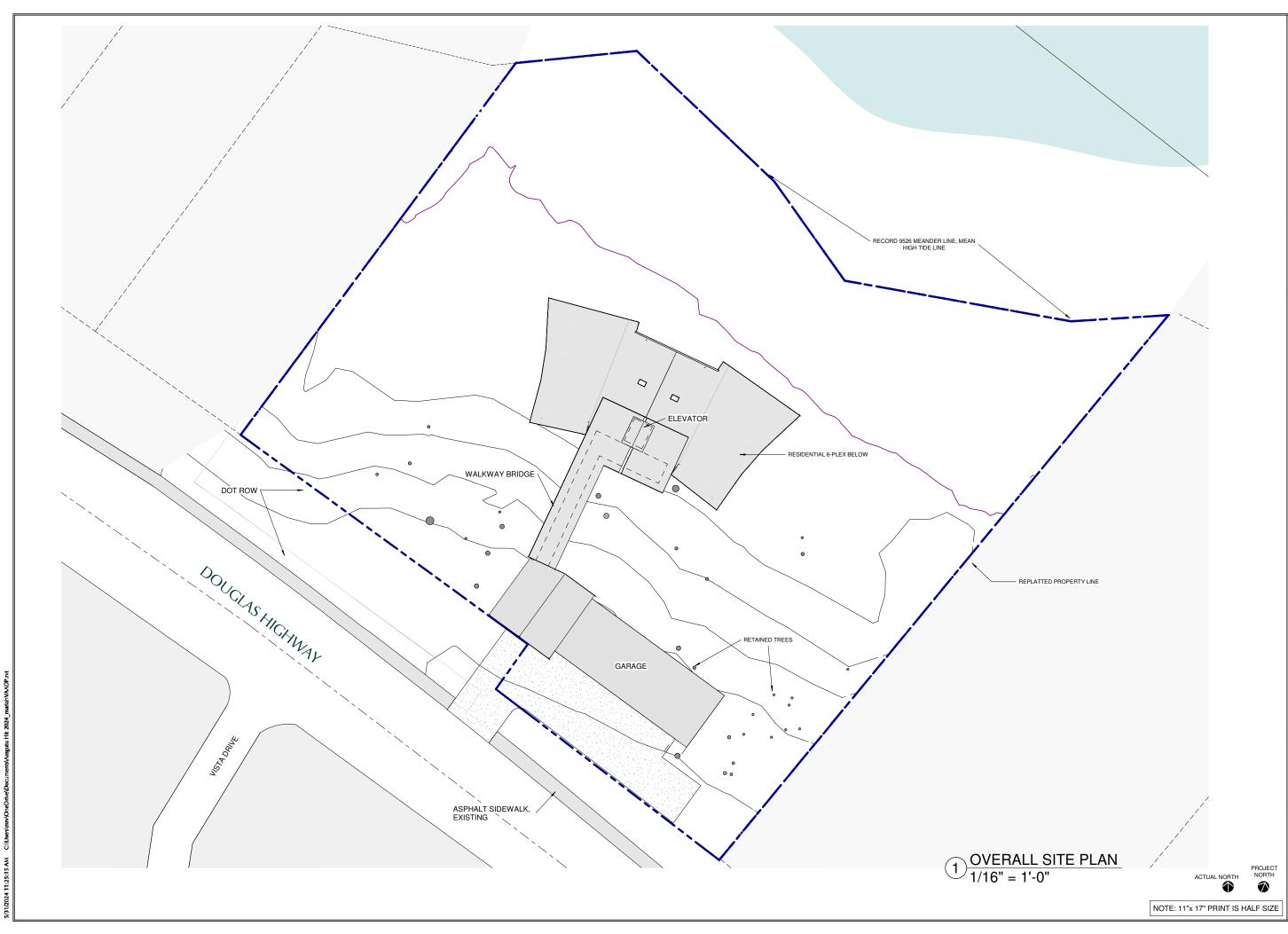
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A002

04.29.2024

PV







0010

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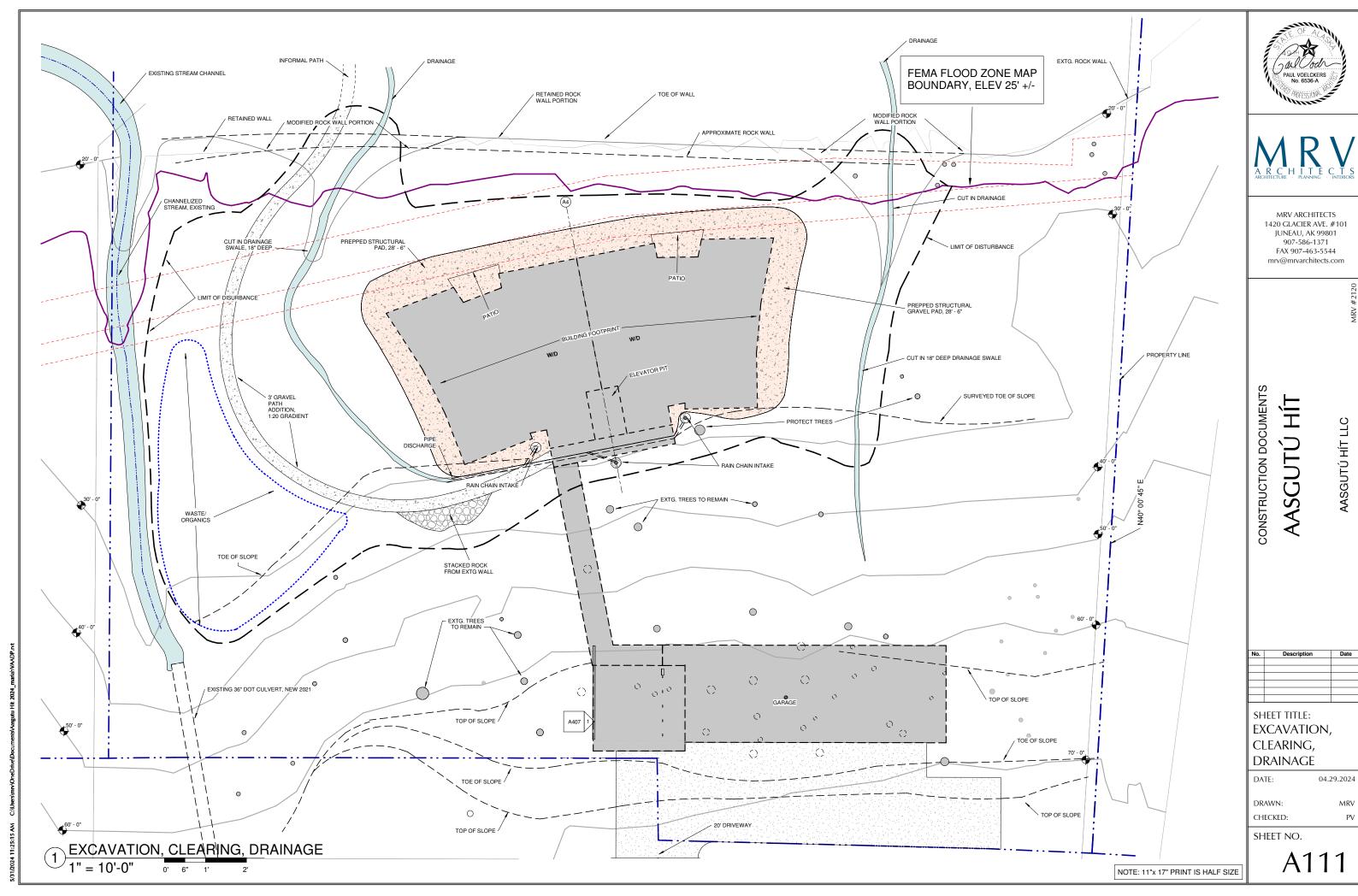
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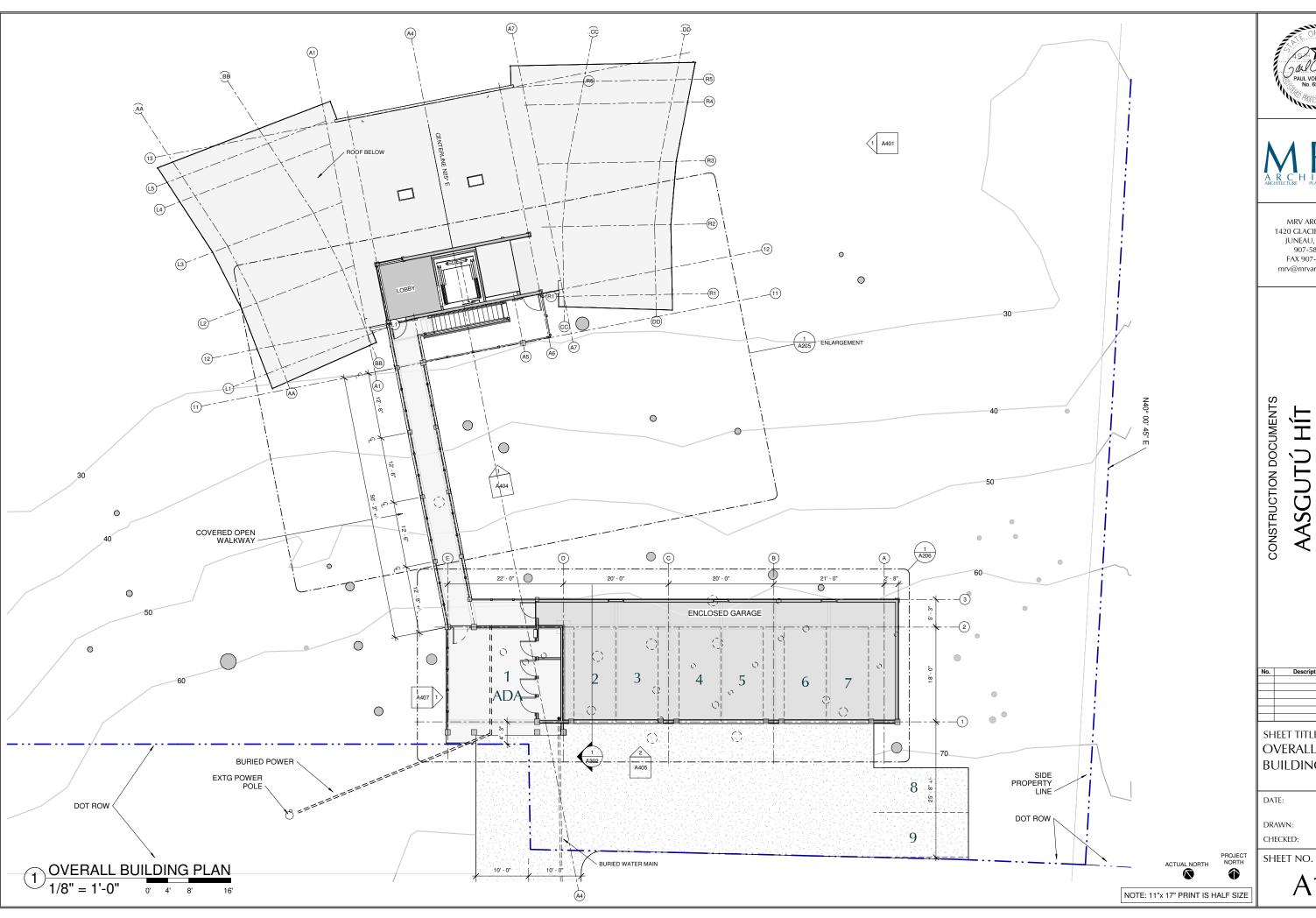
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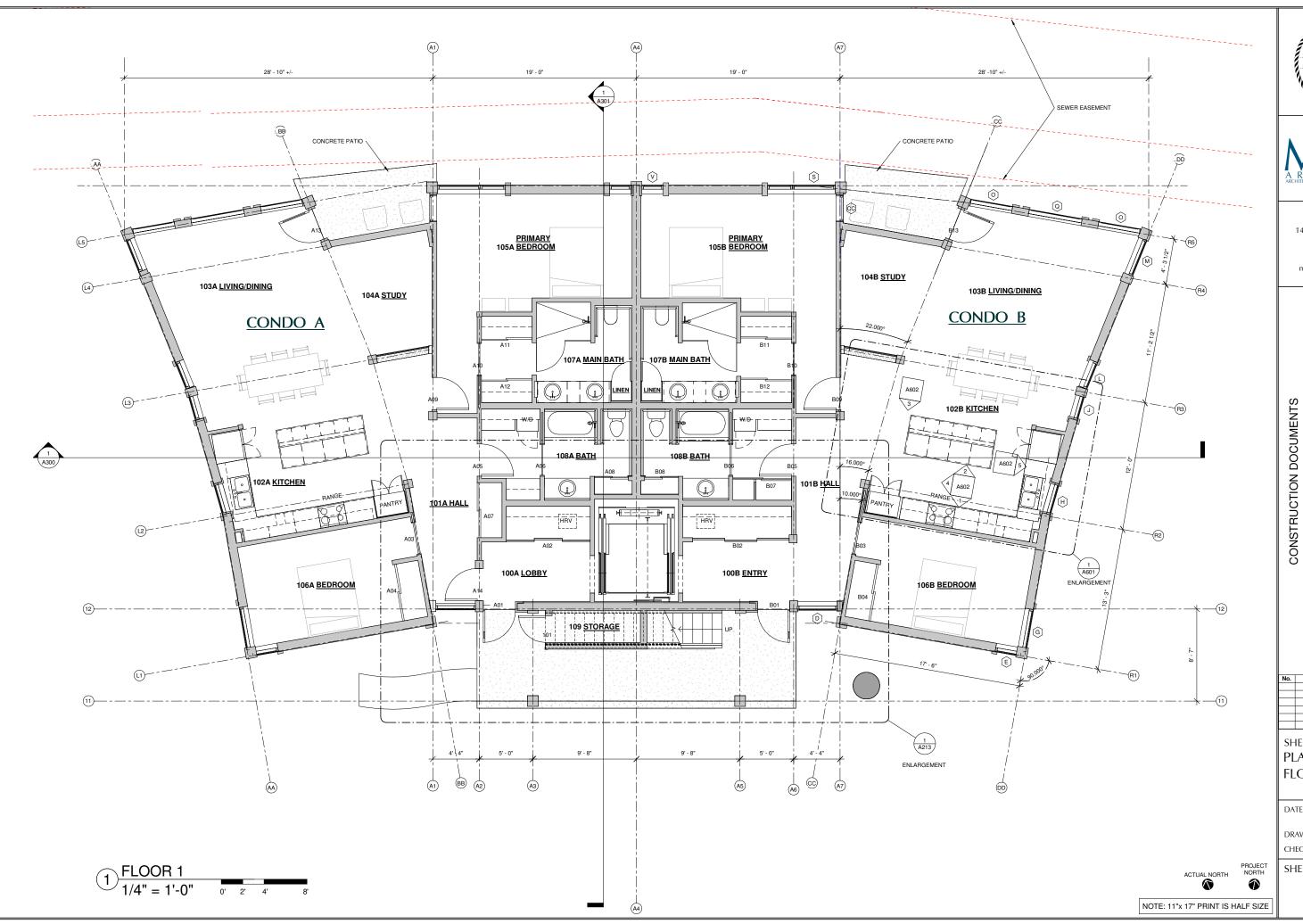




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SHEET TITLE: OVERALL **BUILDING PLAN** 







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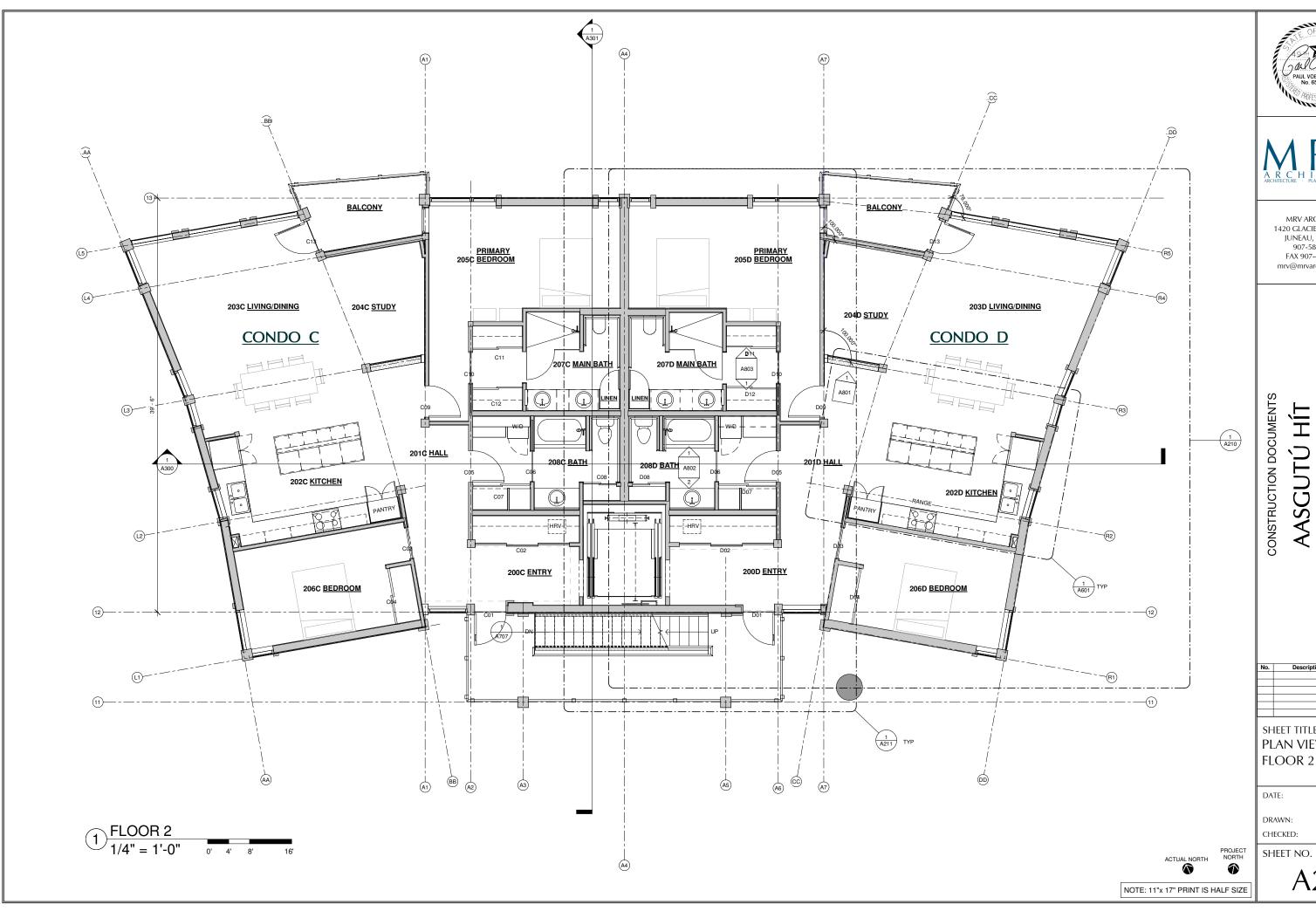
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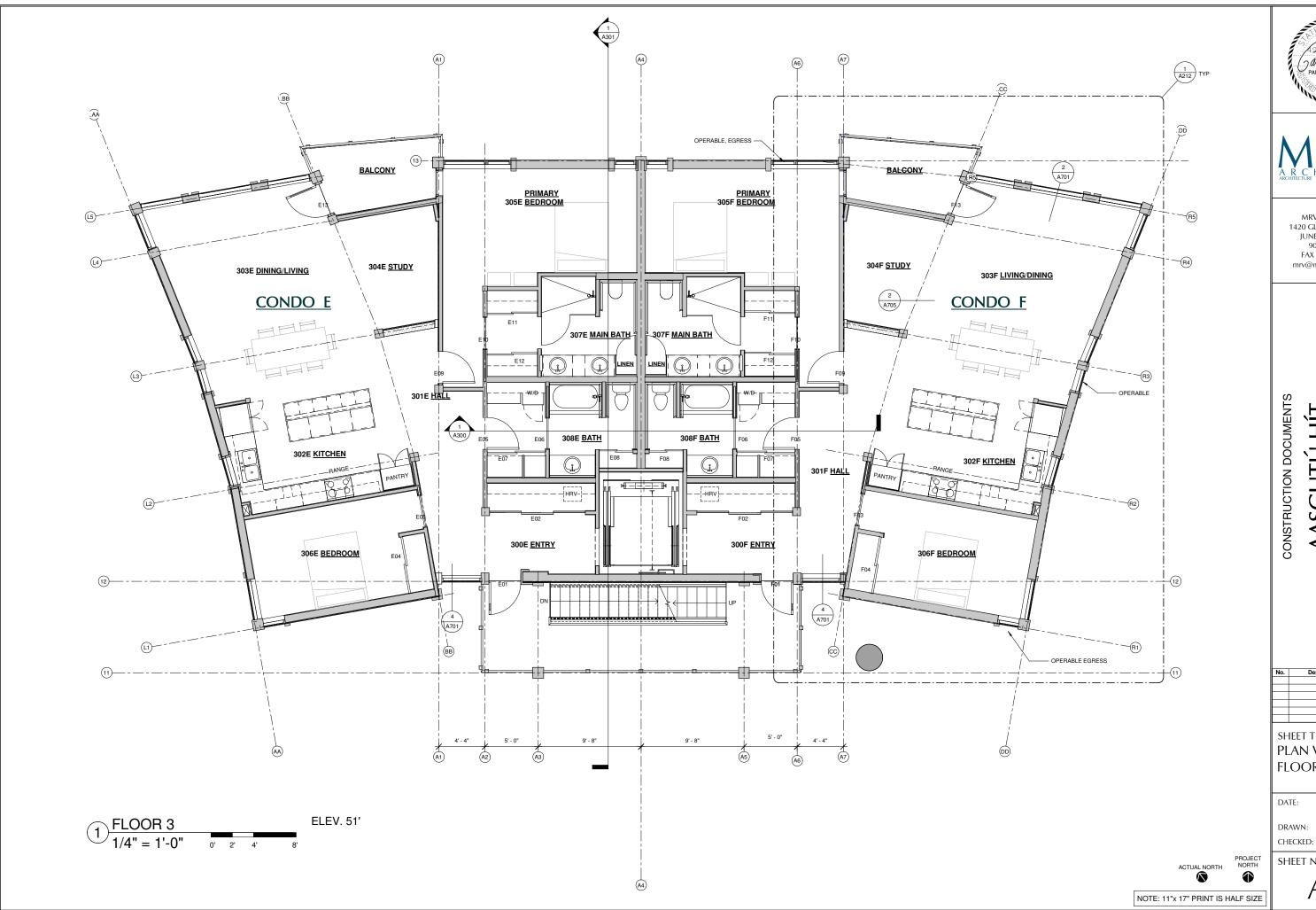




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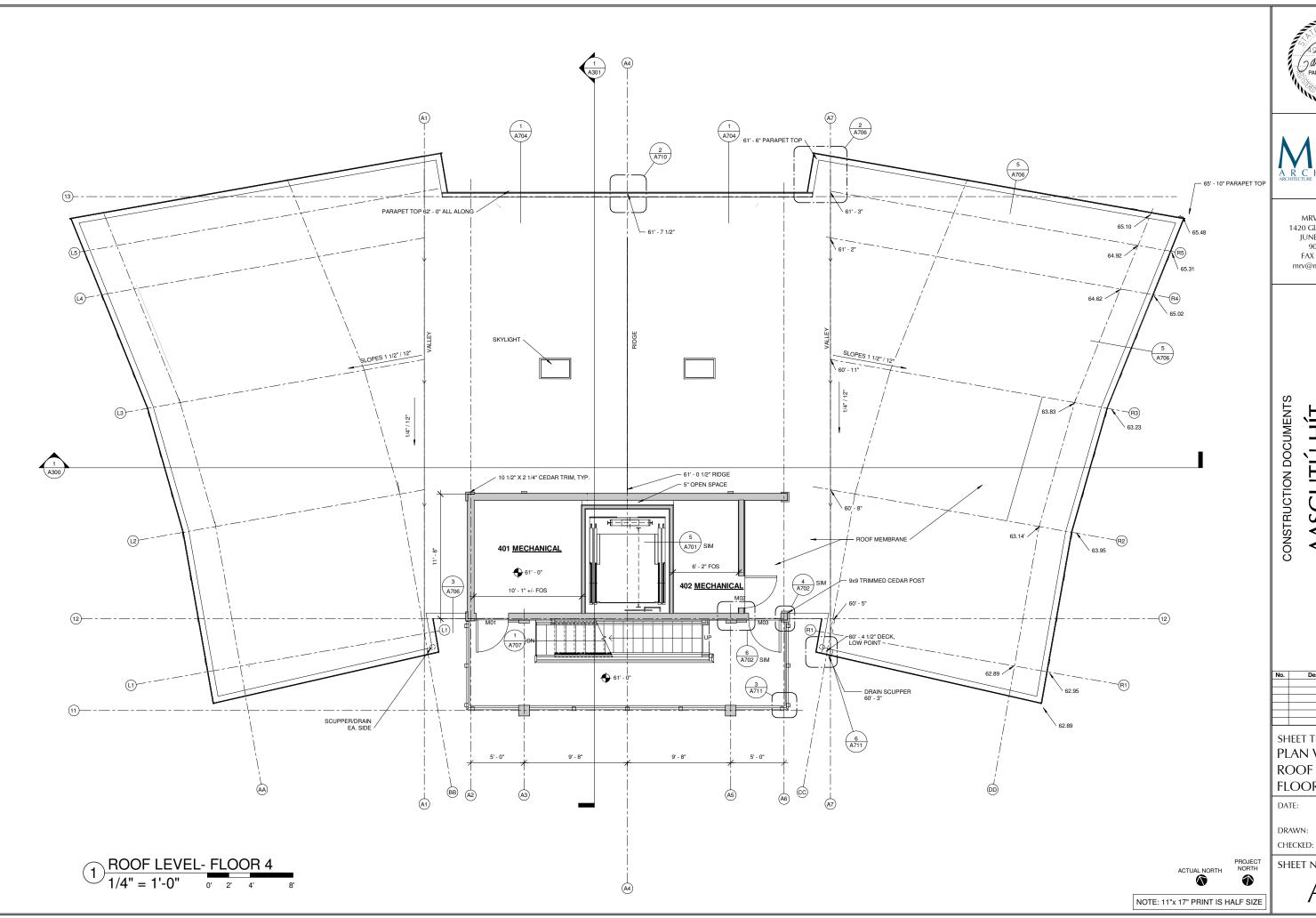
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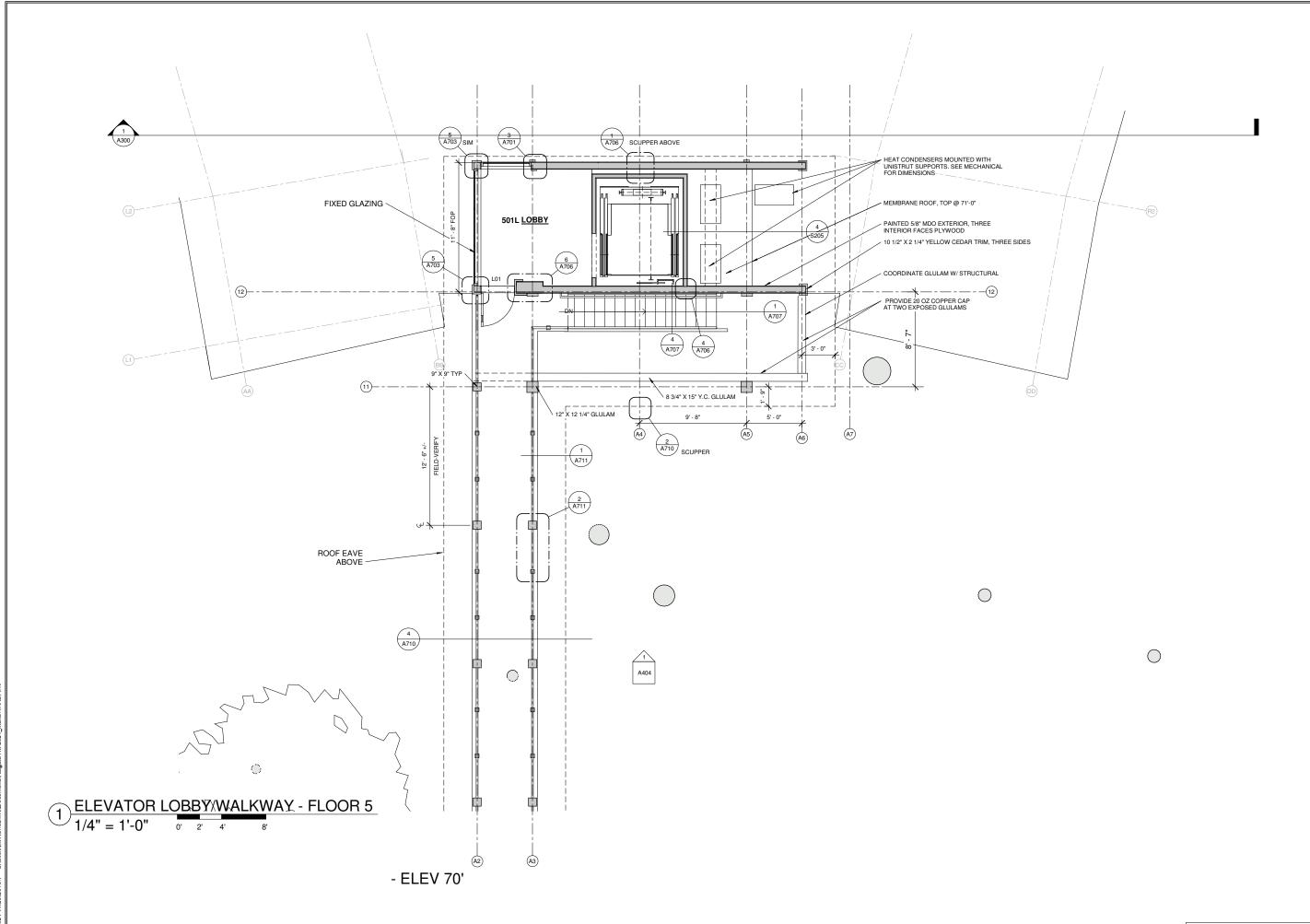


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Description

SHEET TITLE: **PLAN VIEW** ROOF LEVEL-FLOOR 4







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CONSTRUCTION DOCUMENTS

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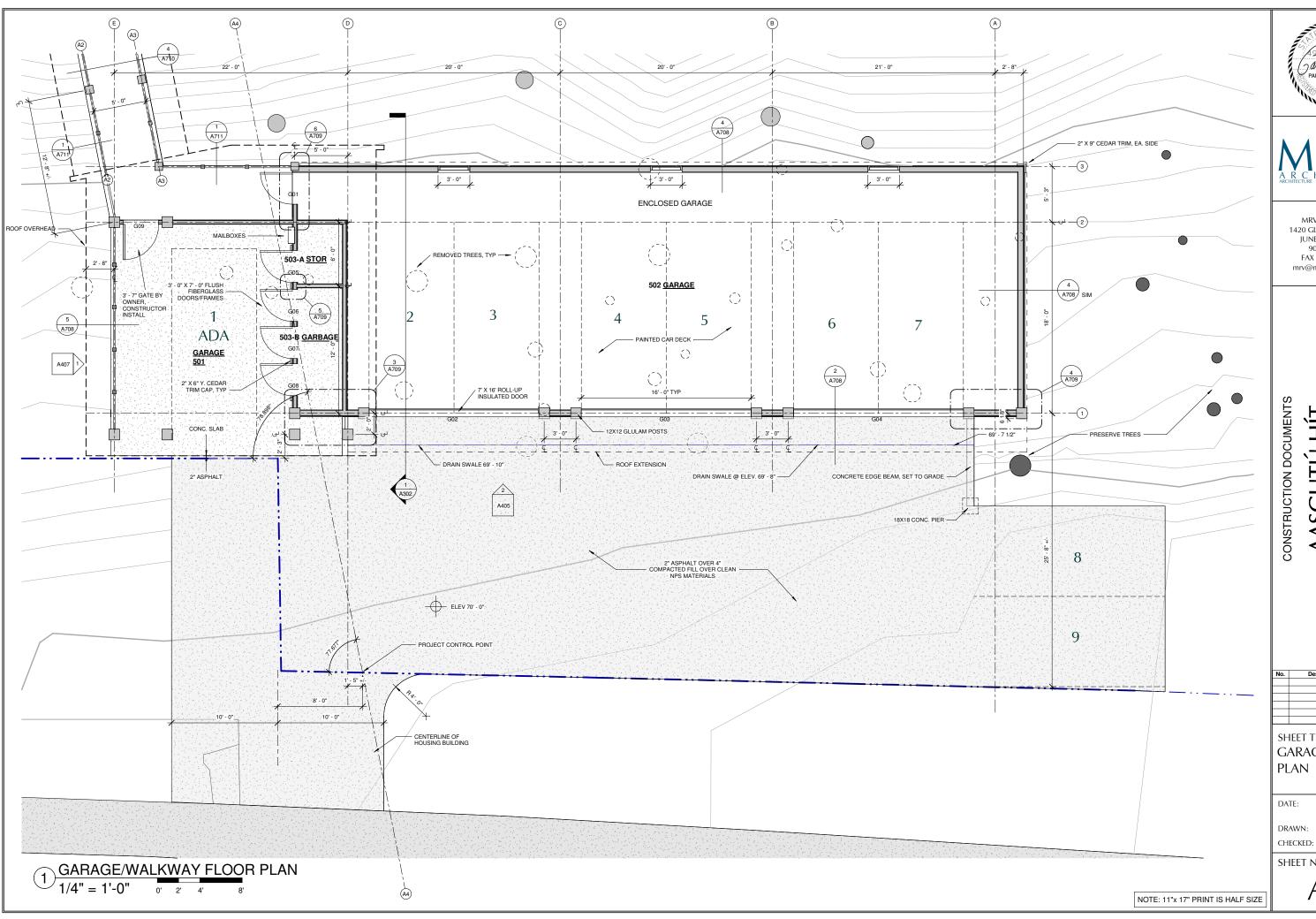
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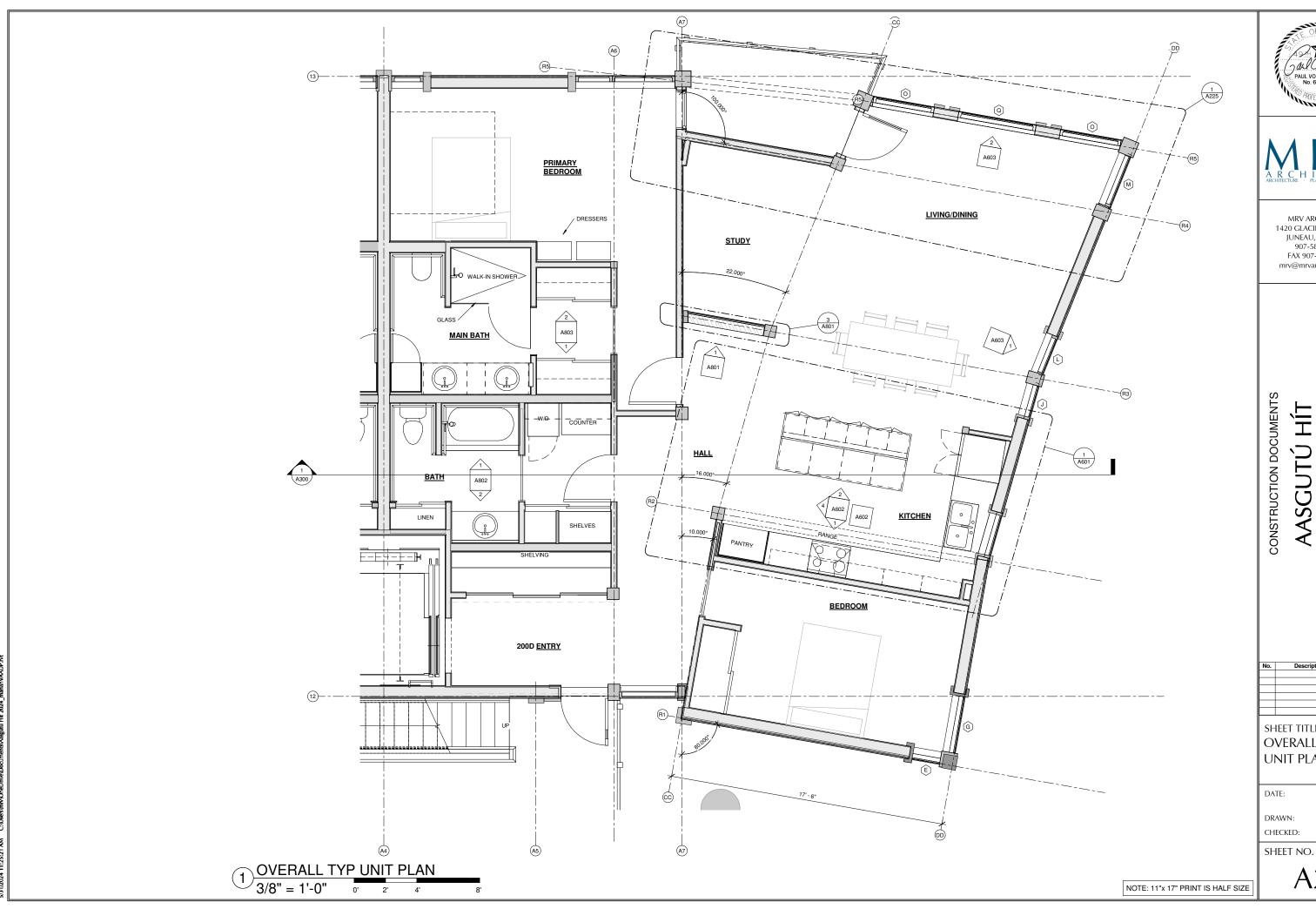
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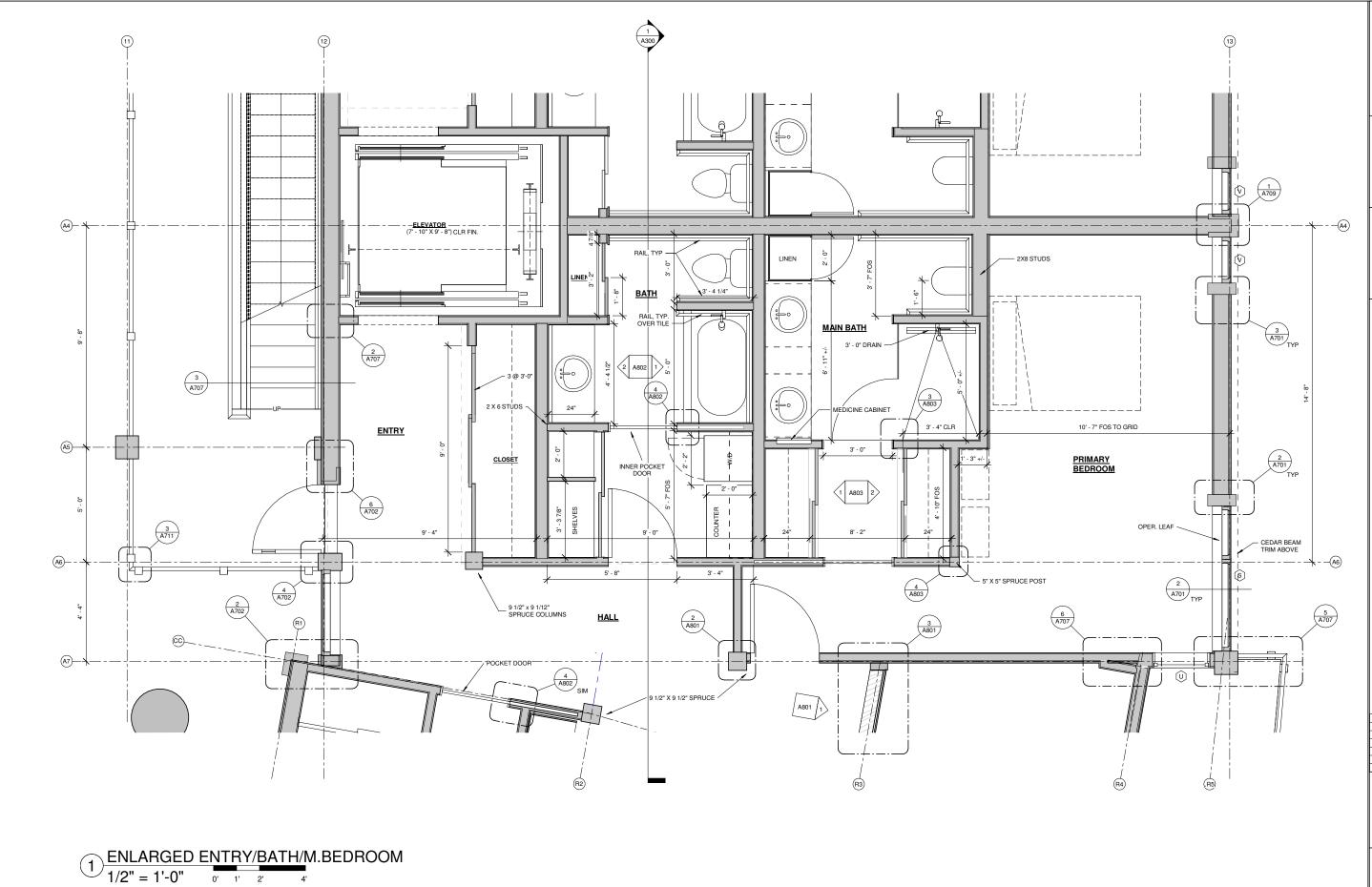




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SHEET TITLE: OVERALL TYP UNIT PLAN







MRV #2120

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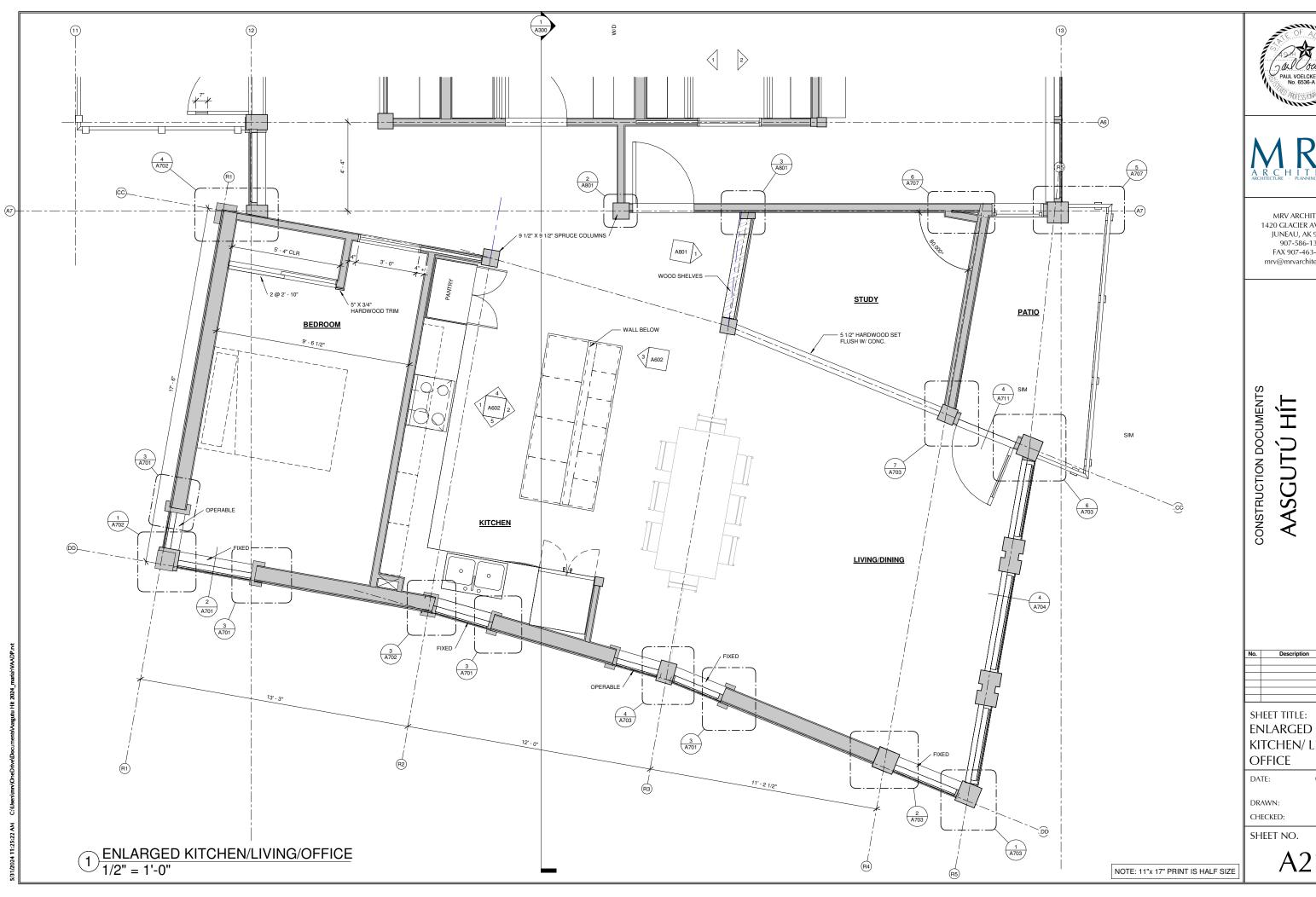
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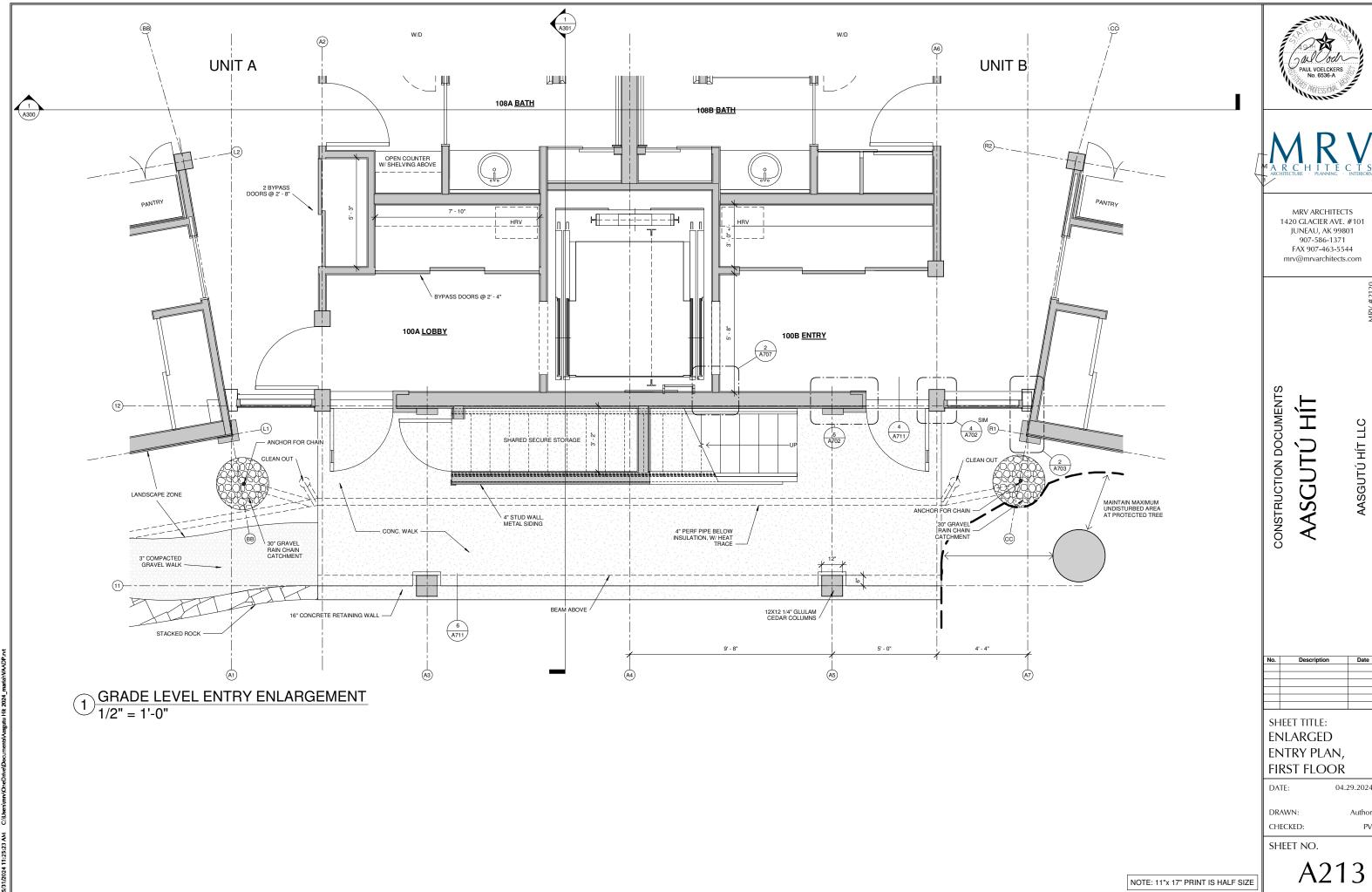


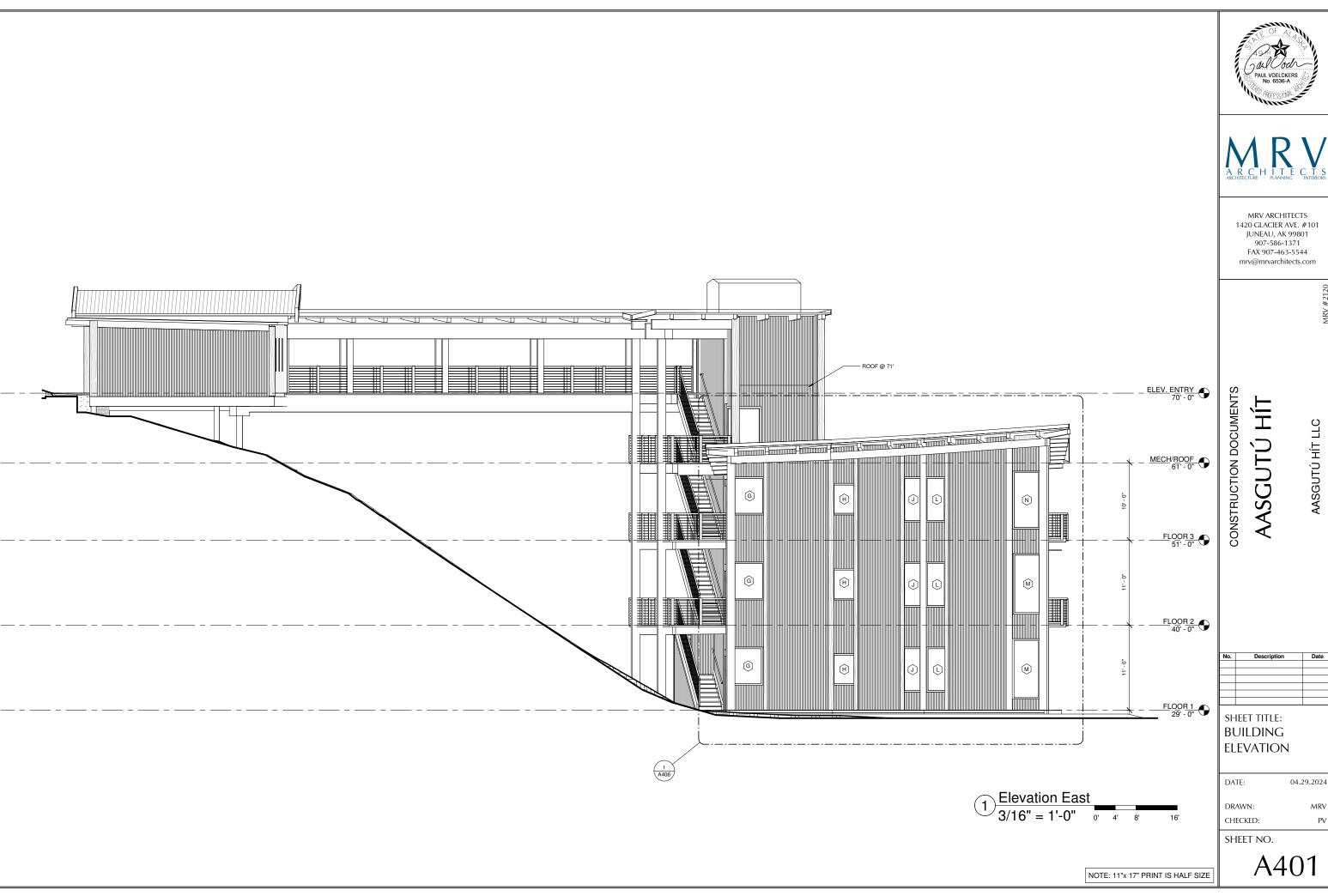




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KITCHEN/ LIVING/

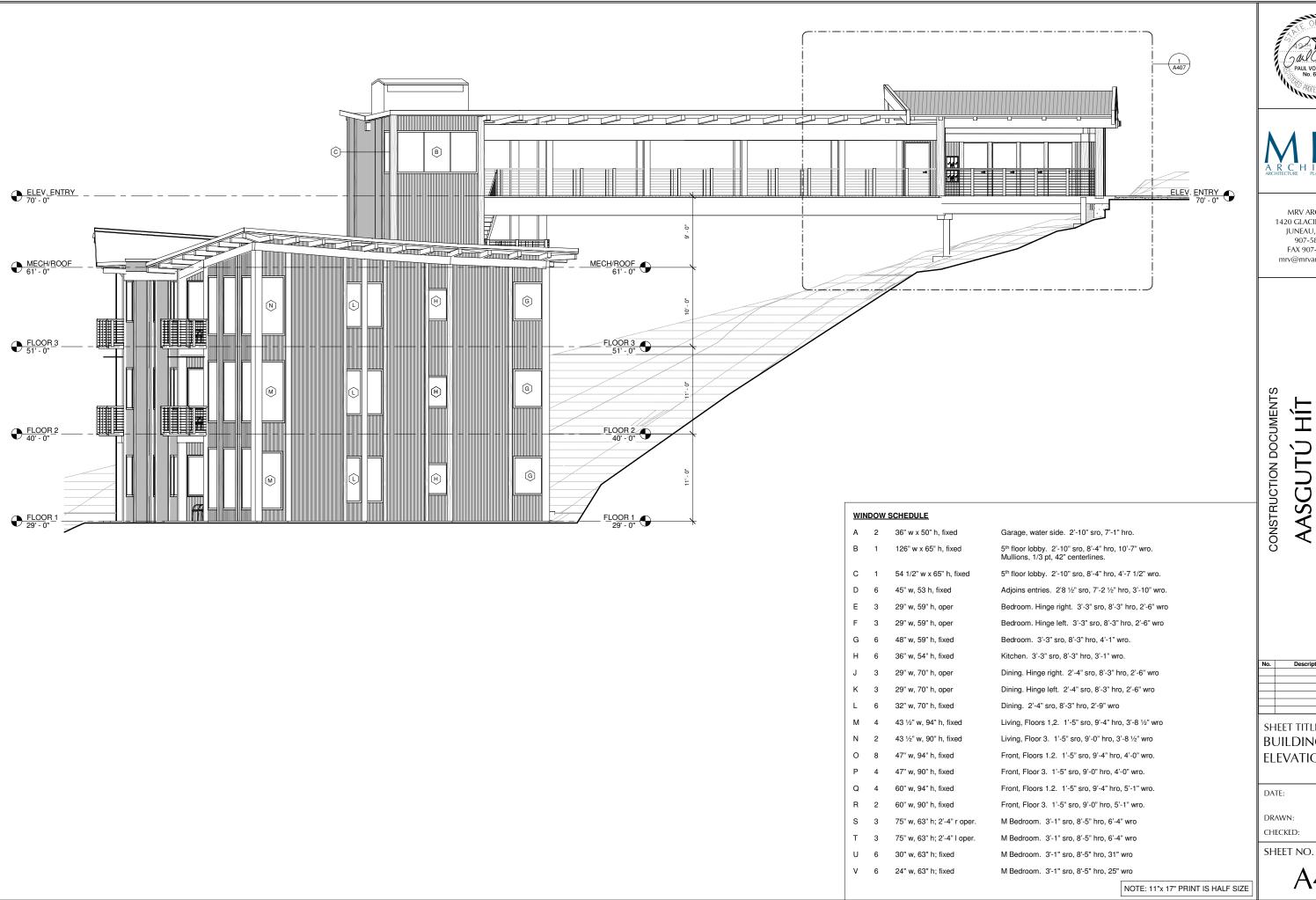








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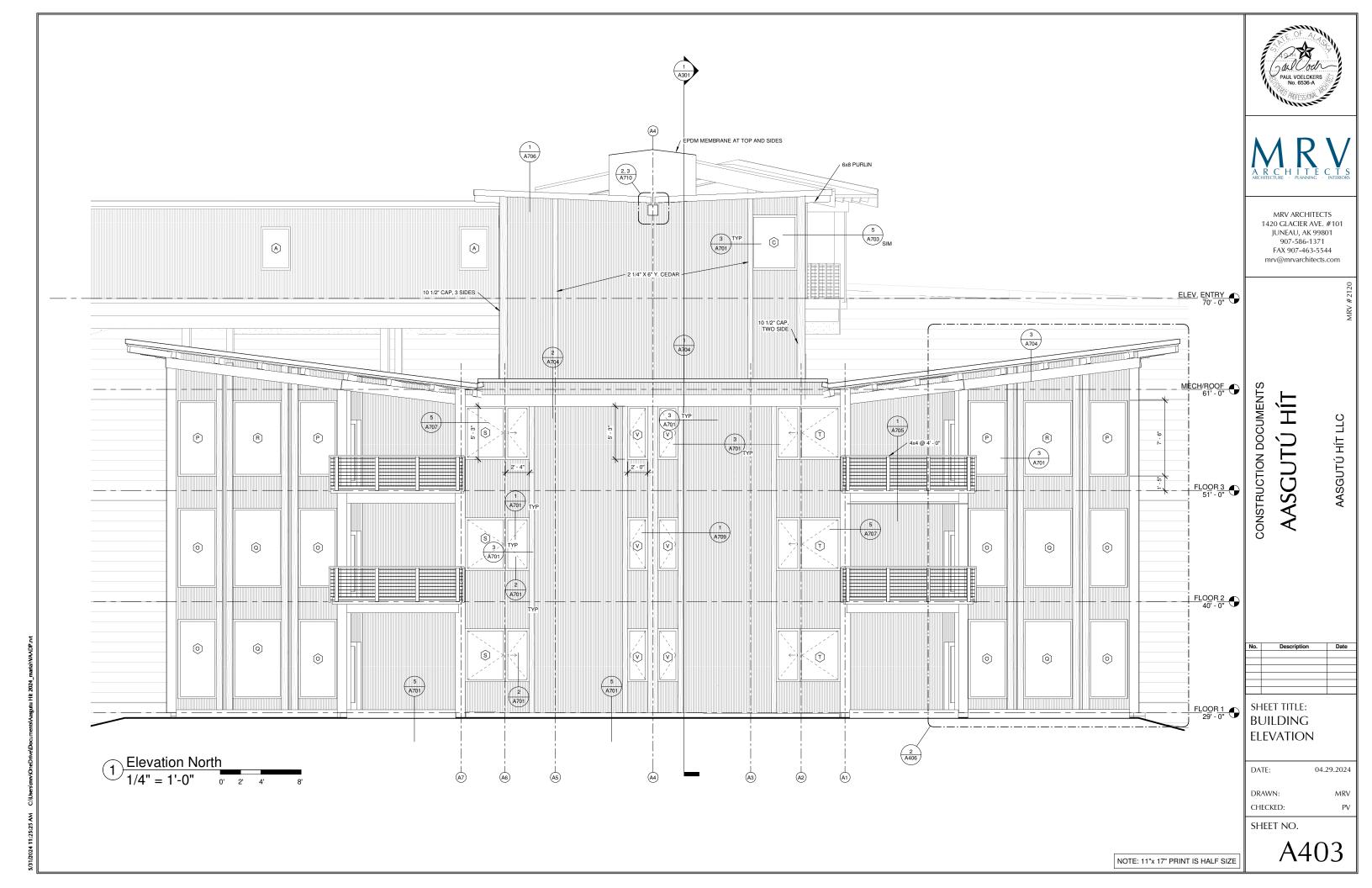
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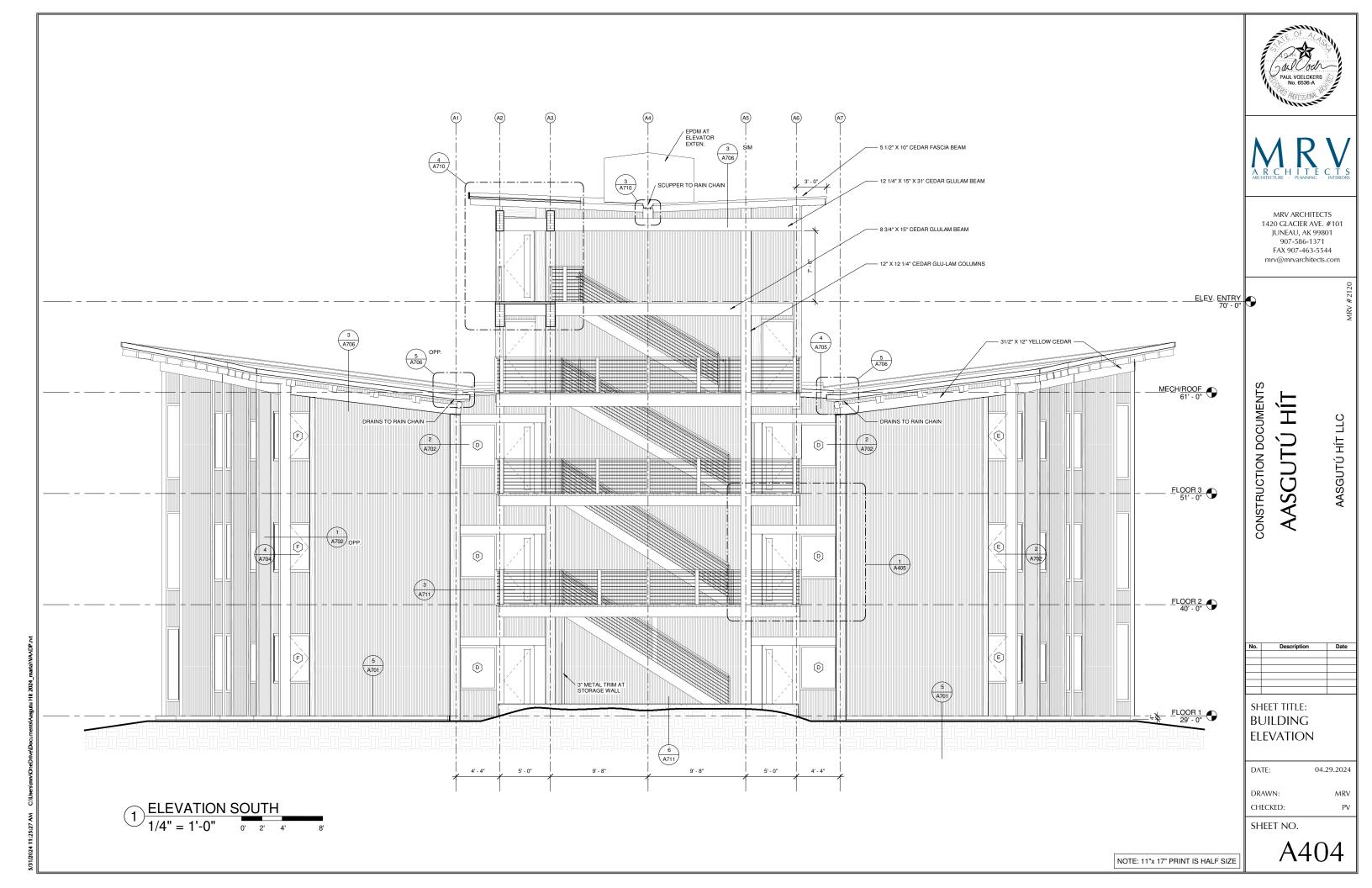
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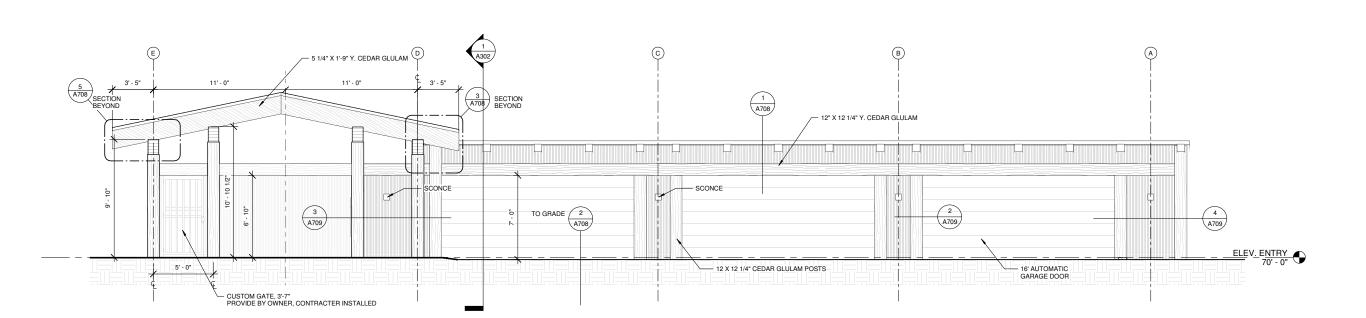
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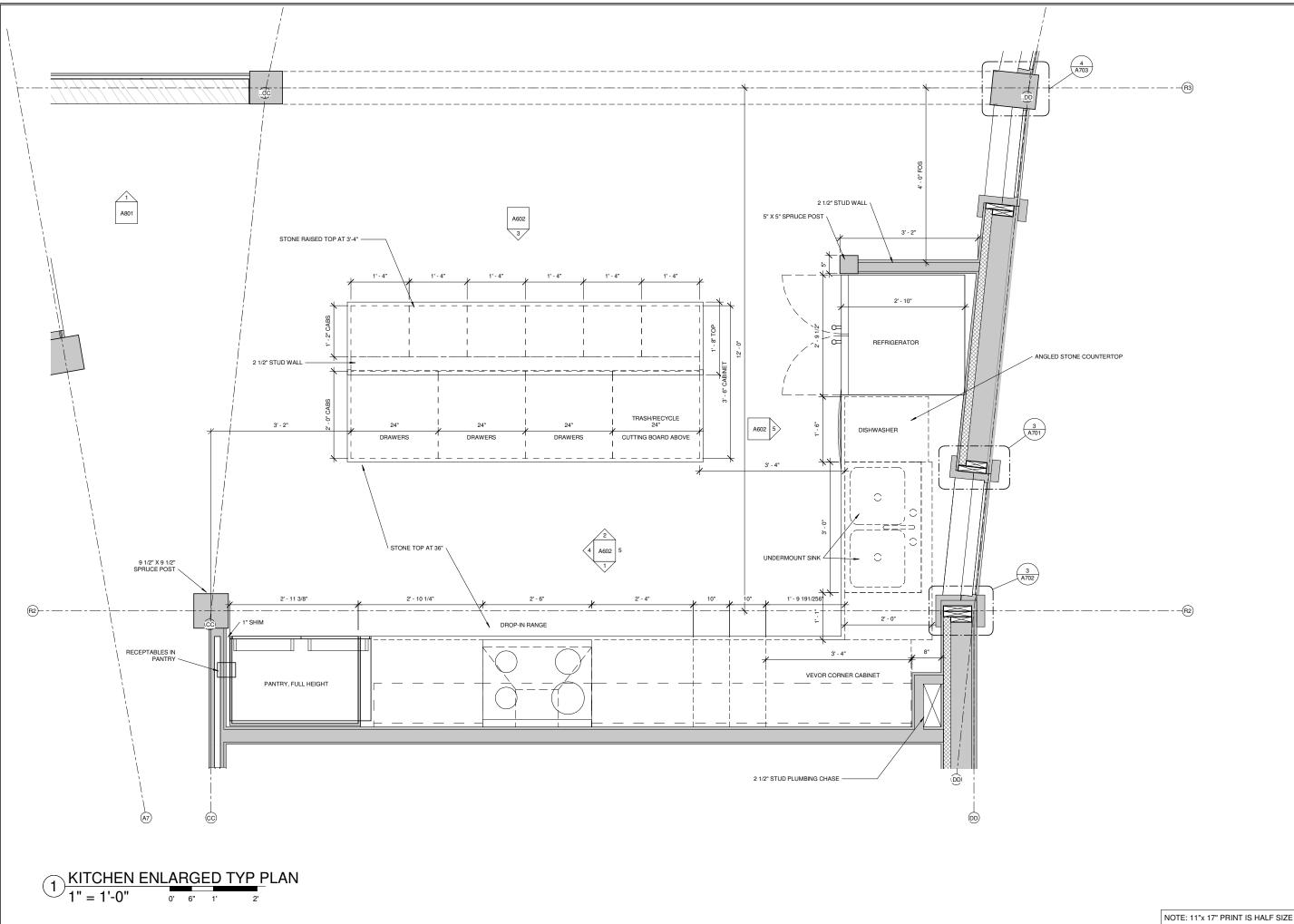
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Description SHEET TITLE:

GARAGE ELEVATION

DATE: 04.29.2024

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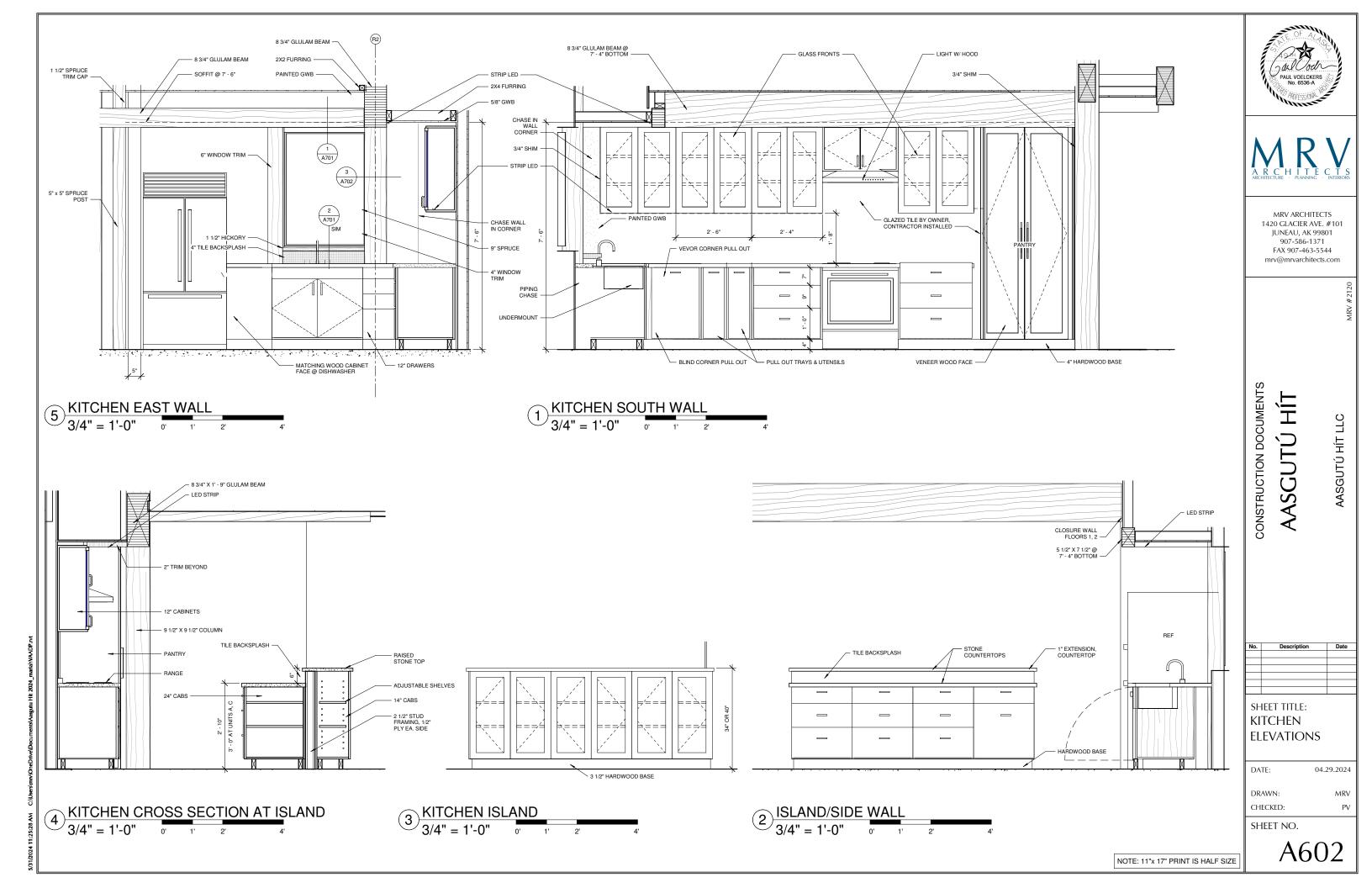
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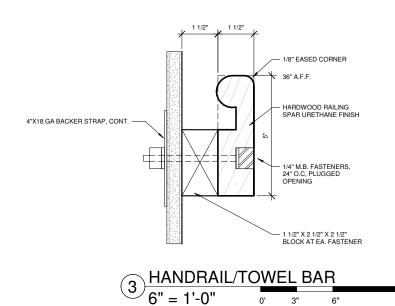
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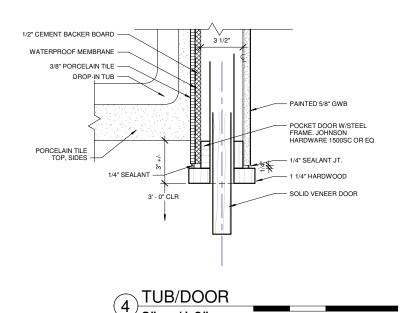
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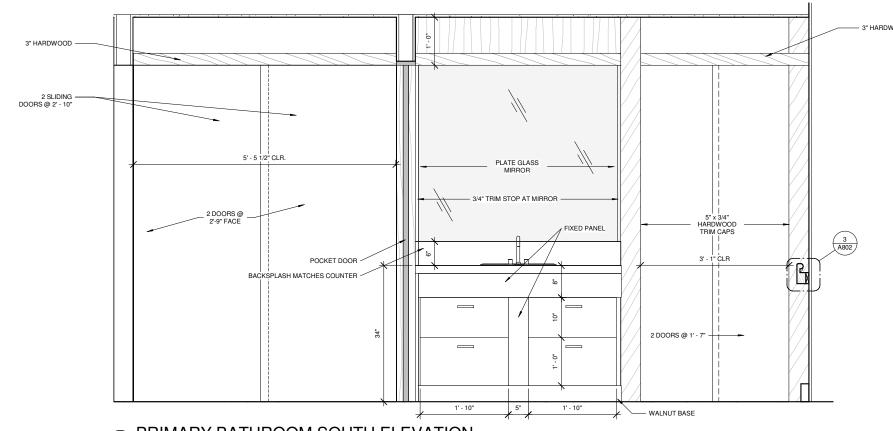
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PRIMARY BATHROOM SOUTH ELEVATION

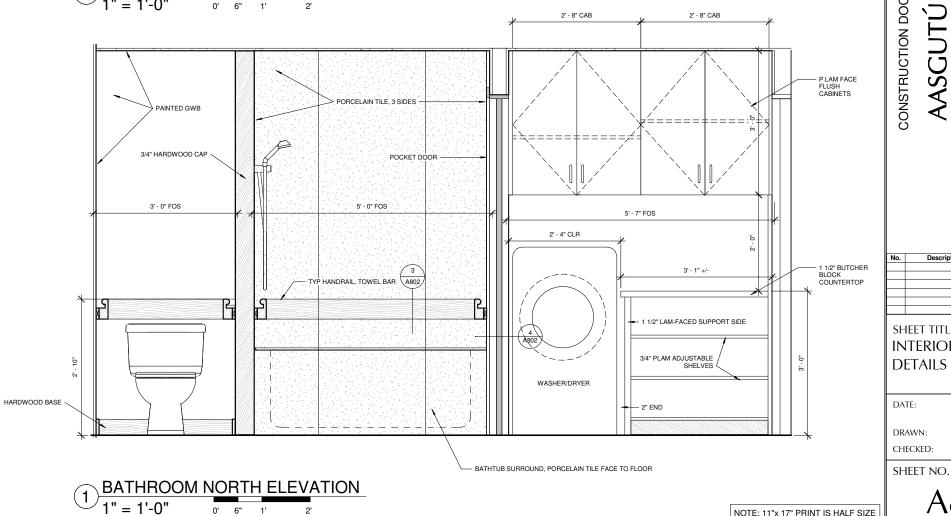
1" = 1'-0"

0'

6"

1'

2







MRV ARCHITECTS 1420 GLACIER AVE. #101 JUNEAU, AK 99801 907-586-1371 FAX 907-463-5544 mrv@mrvarchitects.com

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CONSTRUCTION DOCUMENTS AASGUTÚ HÍT

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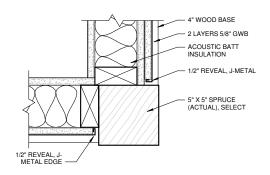
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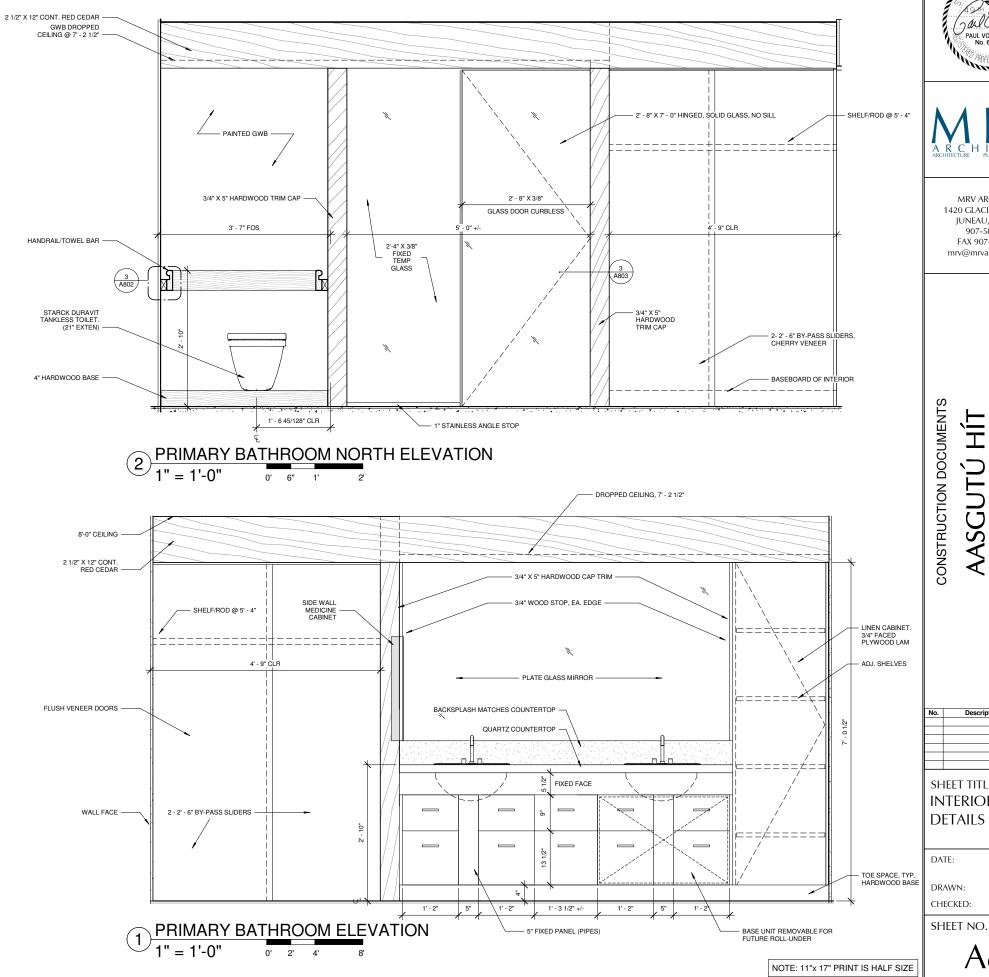
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AASGUTÚ HÍT

Description SHEET TITLE: **INTERIOR** 

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A803