



90 SOUTH BRADSHAW ROAD
APOPKA, FL 32703

ALFREX 4mm FR COMPOSITE WALL PANEL WITH ZEUS RAINSCREEN AND WET-SEAL MOUNTING SYSTEM

REVISIONS:

SEAL:

PROJECT #: ELALF-HZ

DRAWN BY: PKA

CHECKED BY: YM/MR

DATE: 04.17.24

GENERAL NOTES

- THIS ELRO PANEL SYSTEM IS TO BE USED AS WALL, SOFFIT, CANOPY, OR FASCIA CLADDING SYSTEM. EACH ACTUAL PROJECT SHALL BE CONSTRUCTED USING AT MINIMUM THE DETAIL SHOWN IN THE ATTACHED DRAWINGS. PANELS CAN RUN VERTICAL OR HORIZONTAL. STIFFENERS AND HAT CHANNELS MUST BE RUN PERPENDICULAR TO THE BACKUP STRUCTURAL FRAMING.
- PANEL TO BE MADE FROM ELRO PROPRIETARY EXTRUSION SYSTEM IN 6063 ALLOY-T6 TEMPER MILL FINISH
 - STARTER TRACK
 - MALE
 - FEMALE
 - TERMINATION
 - STIFFENER
 - RETAINER
 - PANEL FACER MATERIAL TO BE ONE OF THE FOLLOWING AS NOTED IN THE ATTACHED DETAIL DRAWINGS.
 - ALFREX 4MM FR CORE ALUMINUM COMPOSITE MATERIAL
 - VAPOR BARRIER INSTALLED PER MANUFACTURER'S STANDARD DETAILS
 - 5/8" GYPSUM SHEATHING INSTALLED PER INDUSTRY STANDARDS.
 - 16 GA 50 KSI YIELD STEEL STUD FRAMING AT 16" O.C. MAX.
 - FASTENERS:
 - PANEL FACER MATERIAL TO EXTRUSION FASTENERS TO BE #12-16X7/8" STAINLESS STEEL SELF DRILLING COUNTERSUNK FASTENERS AT 16" O.C. AT ALL PANEL PERIMETER RETURNS
 - PANEL TO STUD FRAMING FASTENERS TO BE #12X2" HWH ITW TEK SCREW 16" O.C. MAX.
 - SHEATHING FASTENERS TO BE INDUSTRY STANDARD AND DESIGNED TO MEET APPLICABLE CODE
 - FRAMING FASTENERS TO BE INDUSTRY STANDARD AND DESIGNED TO MEET APPLICABLE CODE
 - SEALANTS:
 - DOWSIL 795 - ONE PART STRUCTURAL SILICONE ADHESIVE TO ADHERE STIFFENERS TO INSIDE FACE OF PANEL
 - DOWSIL 795 - ONE PART STRUCTURAL SILICONE SEALANT FOR WET SETTING PANELS AS DETAILED IN ATTACHED DRAWINGS
 - BACKER ROD - AS SHOWN IN ATTACHED DETAIL DRAWINGS
 - 7/8" OPEN CELL FOAM BACKER ROD
 - FRAMING AND SHEATHING NOT A PART OF THIS PRODUCT APPROVAL.
 - THIS PRODUCT MEETS ALL THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
 - THIS SYSTEM HAS BEEN TESTED PER TAS 201, 202, AND 203 FOR LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
 - DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE (ASD) DESIGN PRESSURE CANNOT EXCEED THE PRESSURES LISTED IN THE CHART BELOW EACH ELEVATION.
 - ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
 - CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
 - MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.
 - THE INSTALLATION DETAILS SHOWN IN THIS APPROVAL ARE GENERIC. SITE SPECIFIC DETAILS THAT VARY FROM THE CONDITIONS SHOWN MUST BE APPROVED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT AND THE LOCAL BUILDING OFFICIAL.

DRAWING INDEX
1.0 COVER SHEET
2.0 2" RAINSCREEN PANEL ELEVATION & SECTIONS
2.1 2" WET SEAL PANEL ELEVATION & SECTIONS
2.2 4" RAINSCREEN PANEL ELEVATION & SECTIONS
2.3 4" WET SEAL PANEL ELEVATION & SECTIONS
3.0 2" RAINSCREEN SYSTEM DETAILS
3.1 2" WET SEAL SYSTEM DETAILS
3.2 4" RAINSCREEN SYSTEM DETAILS
3.3 4" WET SEAL SYSTEM DETAILS
3.4 EXTRUSION PROFILES

ALFREX 4MM FR COMPOSITE WALL
PANEL WITH ZEUS RAINSCREEN
AND WET-SEAL MOUNTING SYSTEM

ELRO MANUFACTURING

90 SOUTH BRADSHAW RD,
APOPKA, FL 32703

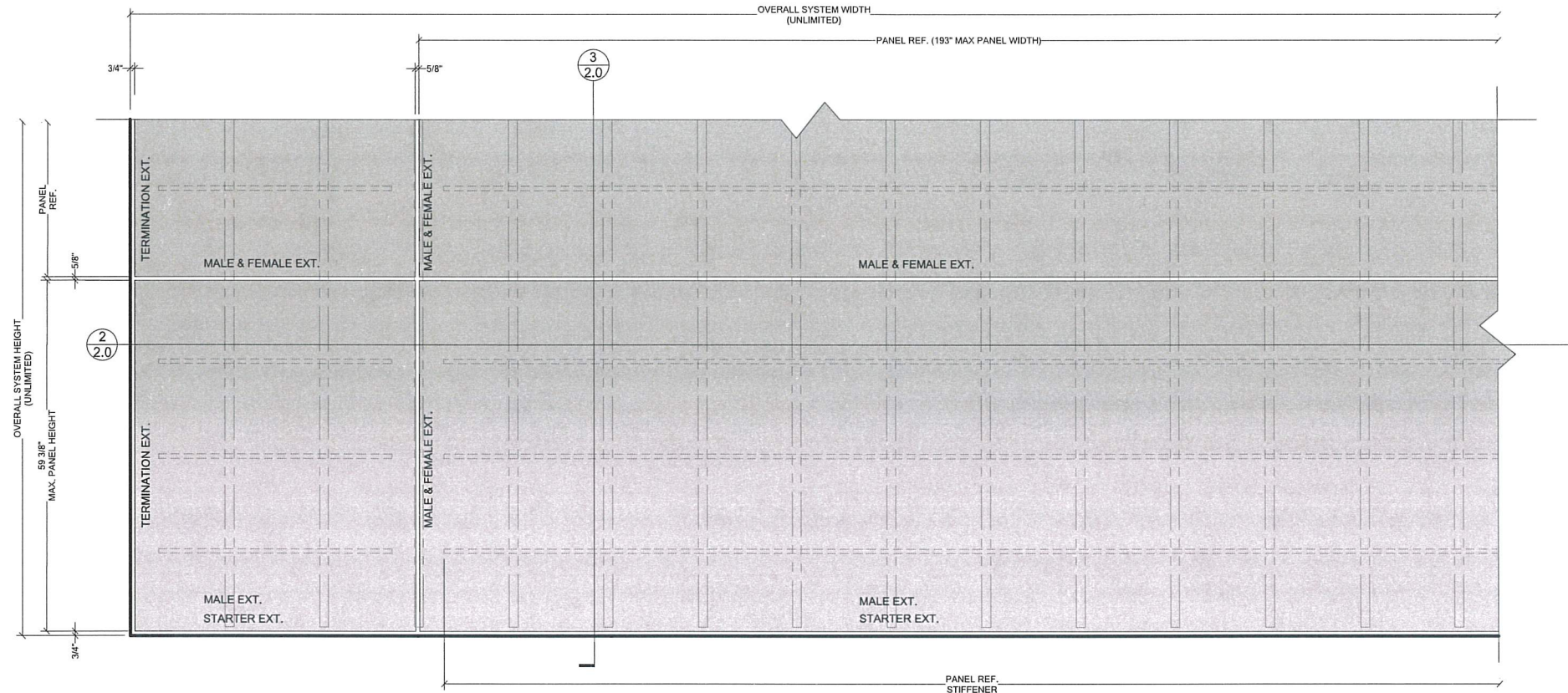
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N.
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

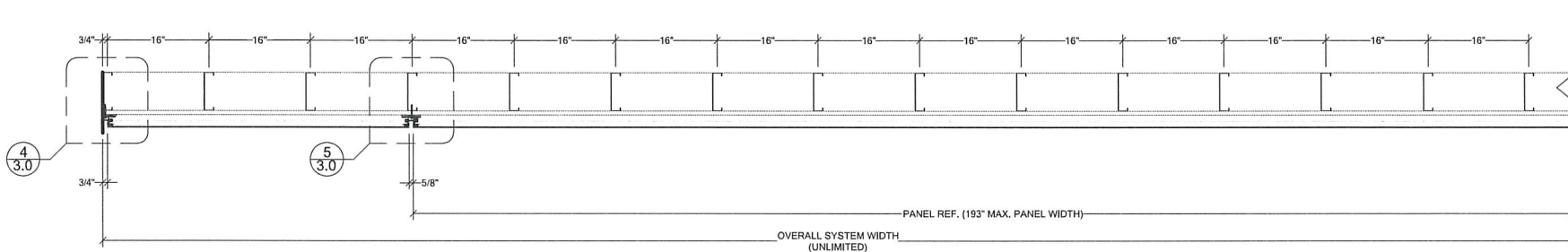
SEAL:
No 62354
STATE OF
MAY 08 2024
PROFESSIONAL ENGINEER

COVER SHEET

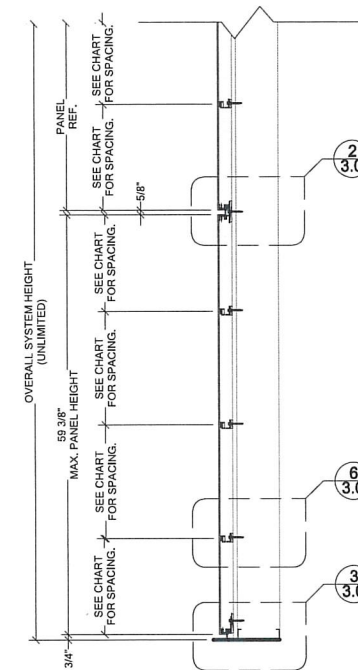
1.0



1
2.0
PANELS ELEVATION - RAINSCREEN
REF: NONE
SCALE: 1"=1'-0"



2
2.0
PANELS SECTION - A - RAINSCREEN
REF: NONE
SCALE: 1"=1'-0"



3
2.0
PANELS SECTION - B - RAINSCREEN
REF: NONE
SCALE: 1"=1'-0"

MAXIMUM DESIGN PRESSURE	
HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 75
NON-HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 125

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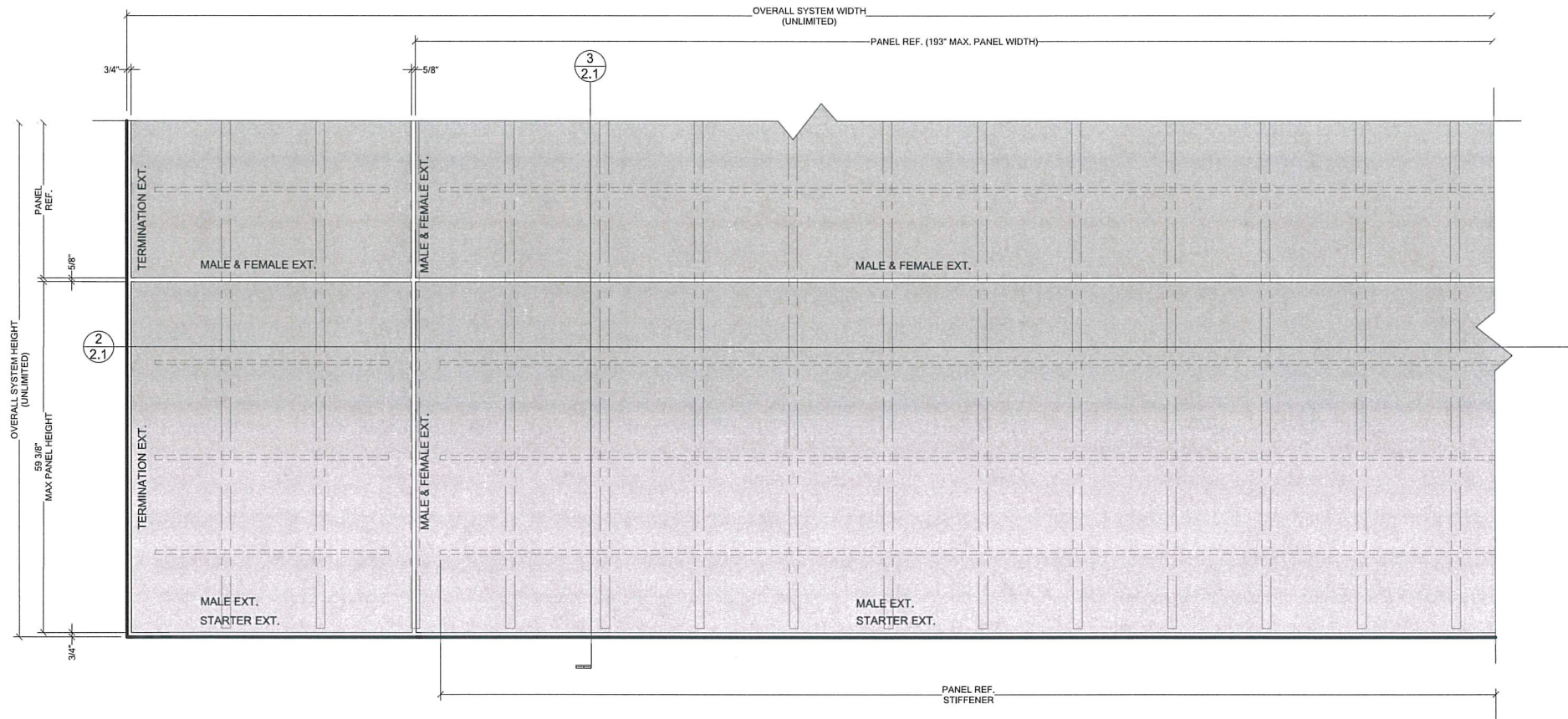
ALFREX 4MM FR COMPOSITE WALL
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ELRO MANUFACTURING

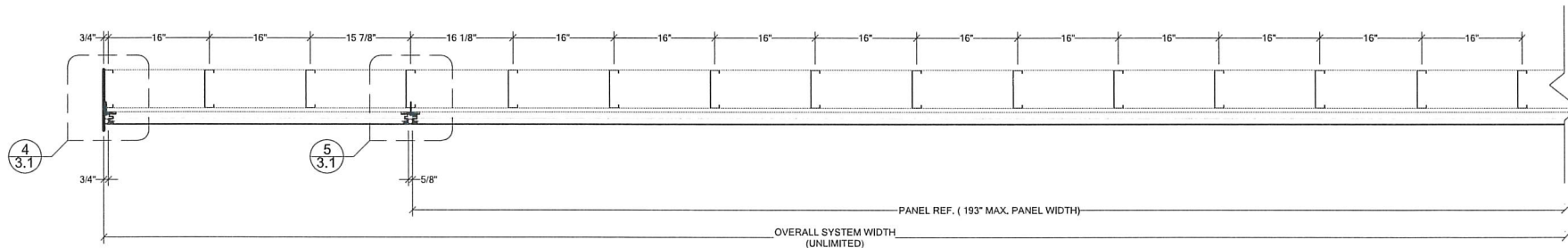
90 SOUTH BRADSHAW RD,
APOKA, FL 32703

ELEVATION &
SECTIONS

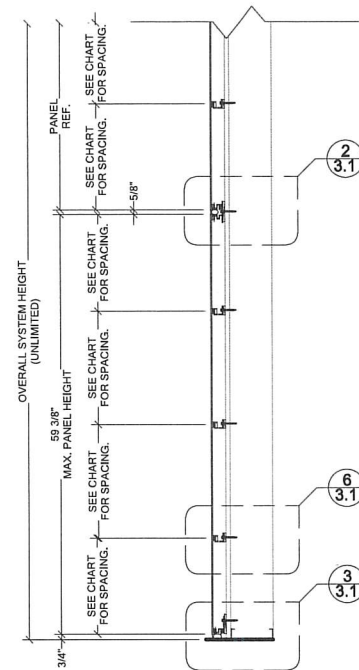
2.0



1
2.1
PANELS ELEVATION - WET SEAL
REF: NONE
SCALE: 1"=1'-0"



2
2.1
PANELS SECTION - A - WET SEAL
REF: NONE
SCALE: 1"=1'-0"



3
2.1
PANELS SECTION - B - WET SEAL
REF: NONE
SCALE: 1"=1'-0"

MAXIMUM DESIGN PRESSURE	
HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 75
NON-HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 125

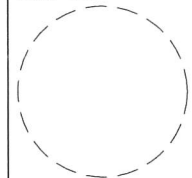
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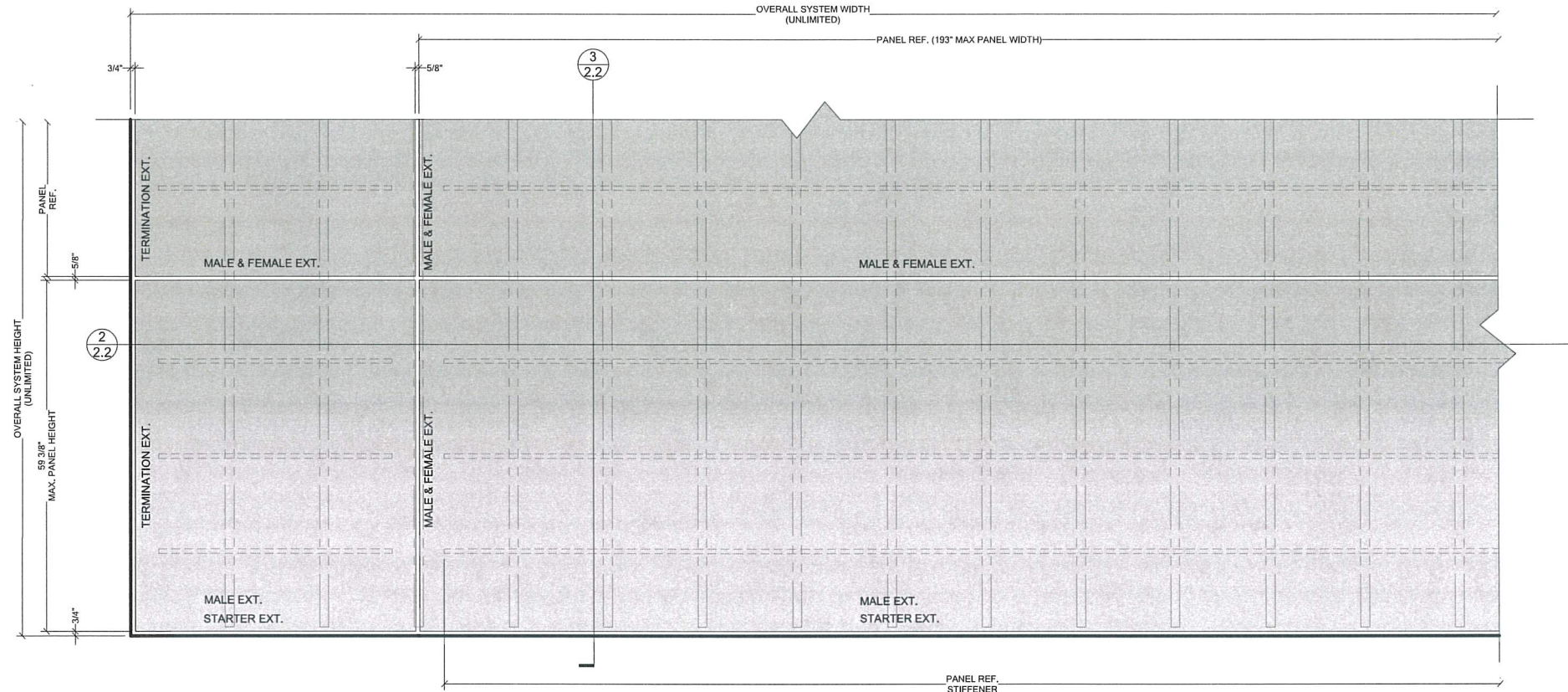
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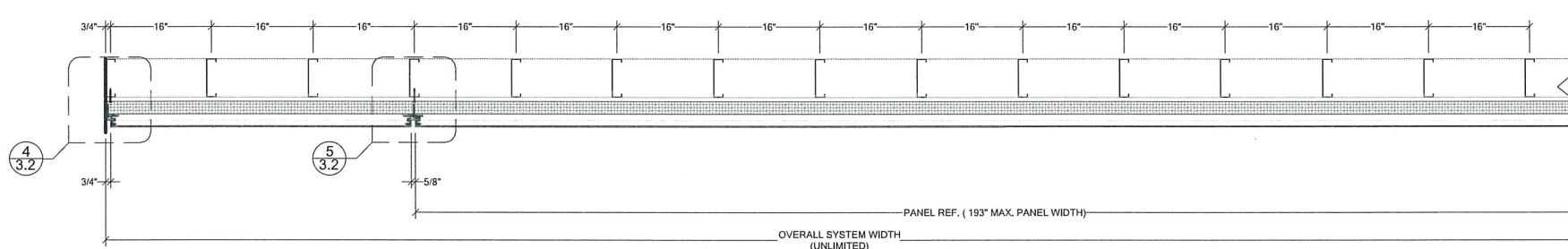
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ELEVATION &
SECTIONS

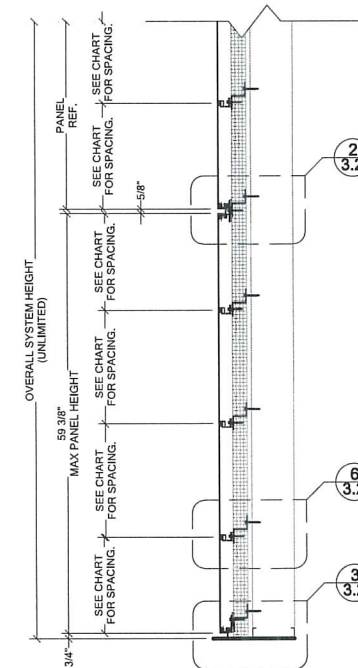
2.1



PANELS ELEVATION - RAINSCREEN W. INSULATION AND SUB-FRAMING
1
2.2 REF: NONE
SCALE: 1"=1'-0"



PANELS SECTION -A- RAINSCREEN W. INSULATION AND SUB-FRAMING
2
2.2 REF: NONE
SCALE: 1"=1'-0"

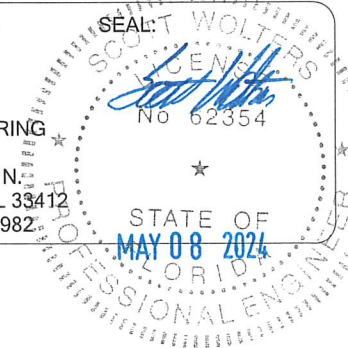


PANELS SECTION -B- RAINSCREEN W. INSULATION AND SUB-FRAMING
3
2.2 REF: NONE
SCALE: 1"=1'-0"

MAXIMUM DESIGN PRESSURE	
HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 75
NON-HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 125

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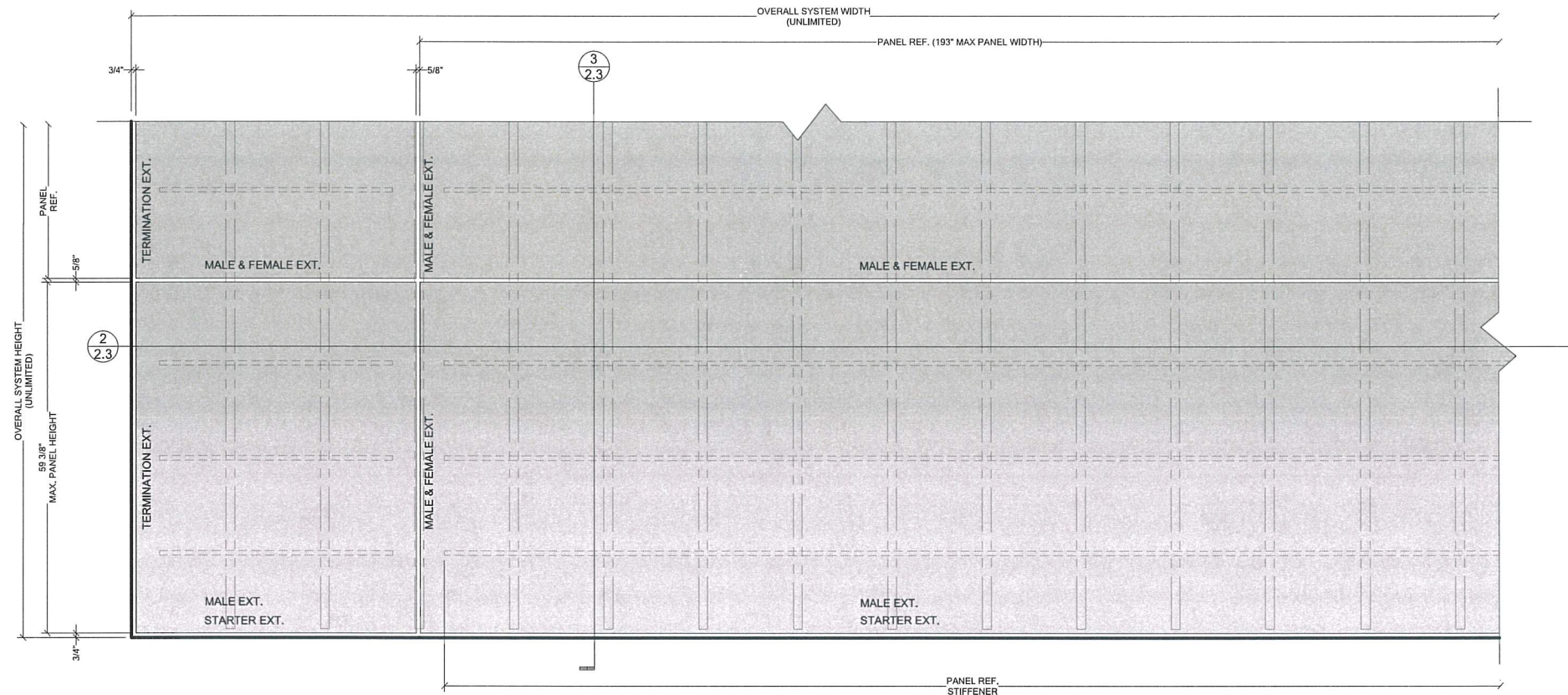
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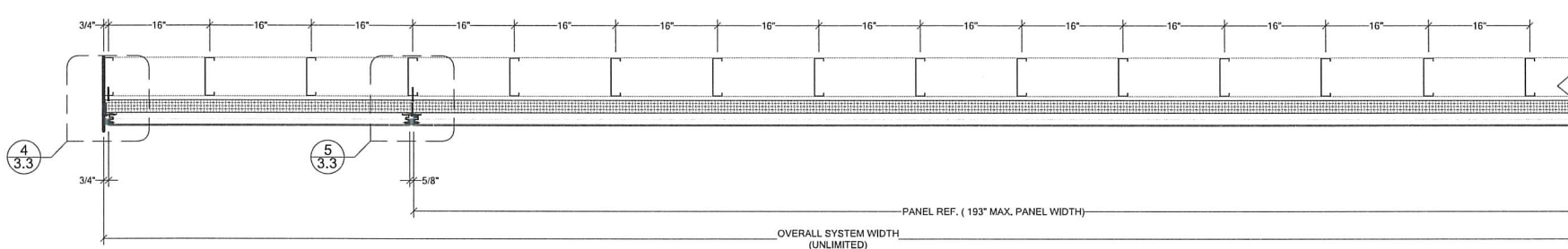
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ELEVATION

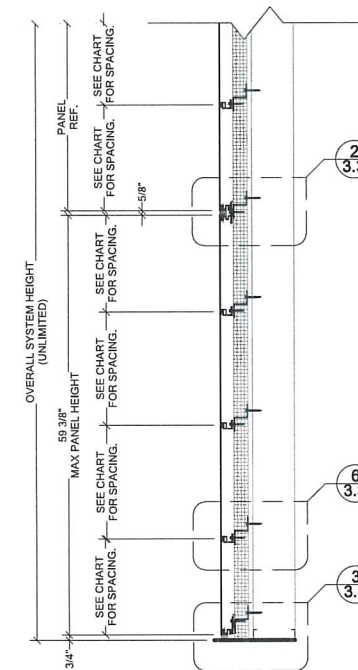
2.2



PANELS ELEVATION - WET SEAL W. INSULATION AND SUB-FRAMING
REF: NONE
SCALE: 1"=1'-0"



PANELS SECTION -A- WET SEAL W. INSULATION AND SUB-FRAMING
REF: NONE
SCALE: 1"=1'-0"



PANELS SECTION -B- WET SEAL W. INSULATION AND SUB-FRAMING
REF: NONE
SCALE: 1"=1'-0"

MAXIMUM DESIGN PRESSURE	
HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 75
NON-HVHZ	
RETAINER CLIP SPACING (in.)	MAXIMUM DESIGN PRESSURE (psf.)
16	+/- 125

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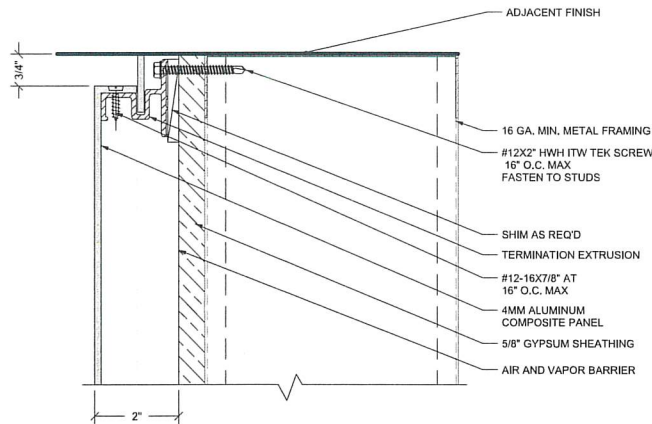
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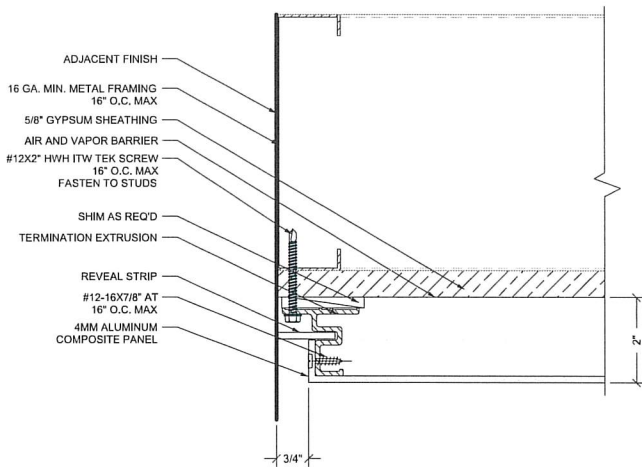
ELEVATION

2.3

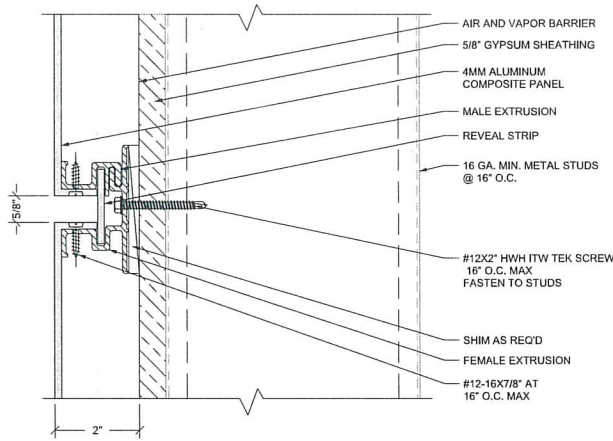
RAINSCREEN DETAILS



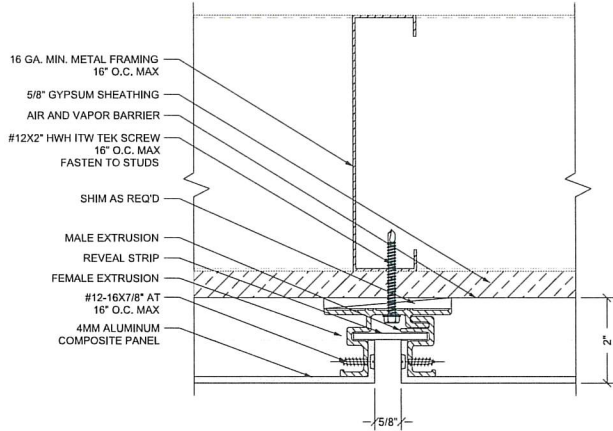
1 HEAD TERMINATION
REF: NONE
SCALE: 6"=1'-0"



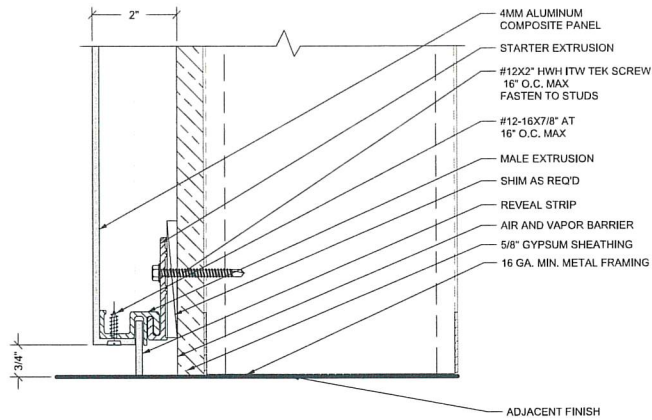
4 JAMB TERMINATION
REF: NONE
SCALE: 6"=1'-0"



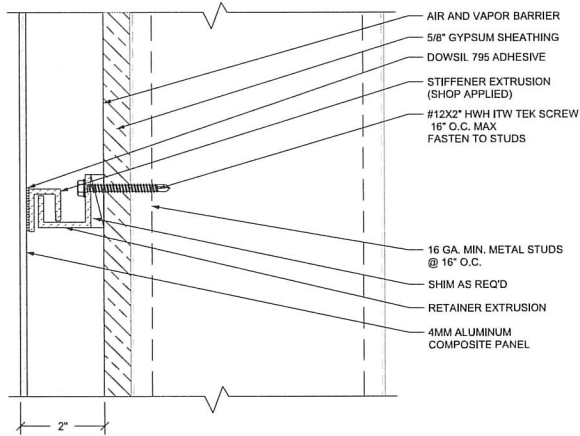
2 TYP. HORIZONTAL JOINT
REF: NONE
SCALE: 6"=1'-0"



5 TYP. VERTICAL JOINT
REF: NONE
SCALE: 6"=1'-0"



3 TYP. BASE TERMINATION
REF: NONE
SCALE: 6"=1'-0"



6 STIFFENER/RETAINER DETAIL
REF: NONE
SCALE: 6"=1'-0"

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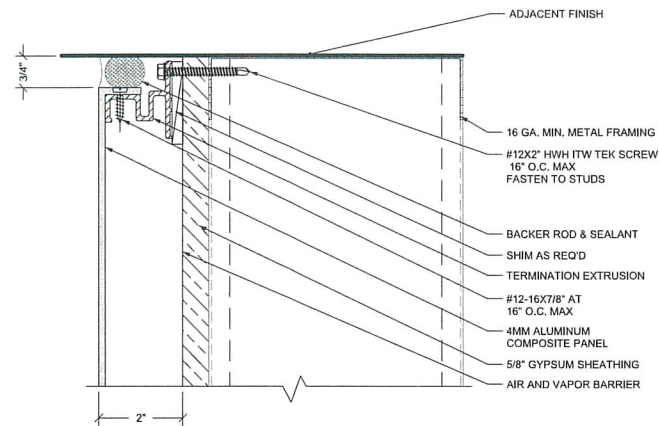
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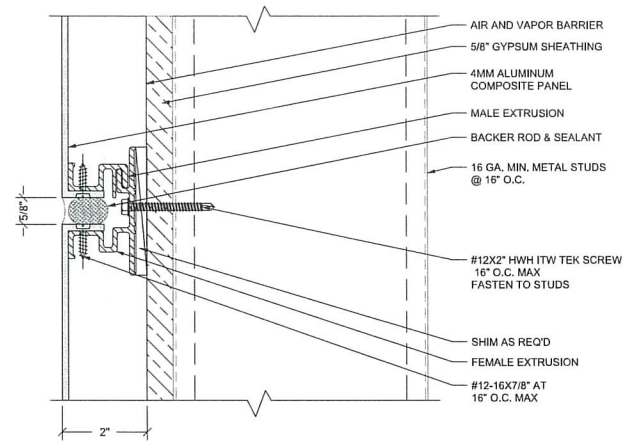
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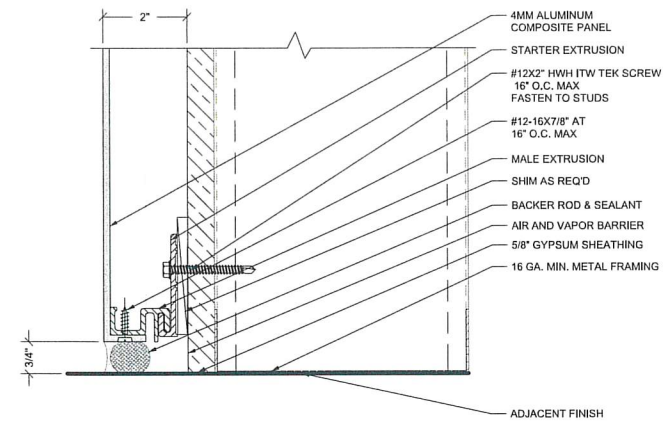
WET SEAL DETAILS



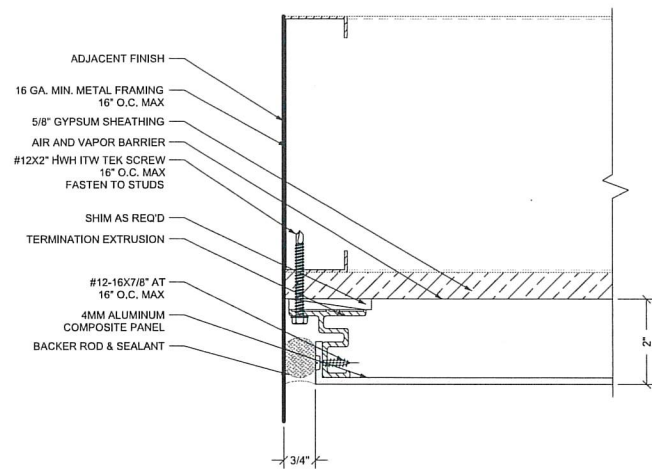
1 HEAD TERMINATION
3.1 REF: NONE
SCALE: 6"=1'-0"



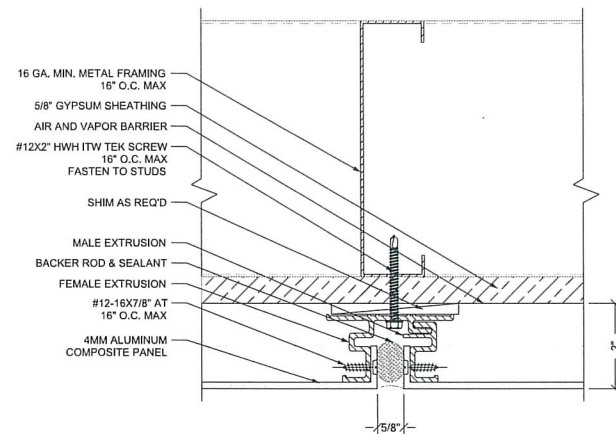
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3.1 REF: NONE
SCALE: 6"=1'-0"



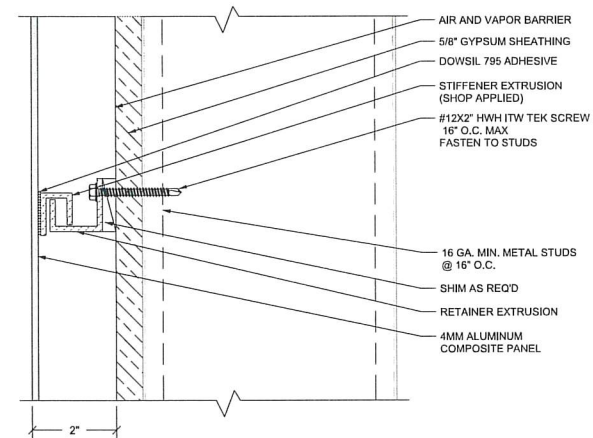
3 TYP. BASE TERMINATION
3.1 REF: NONE
SCALE: 6"=1'-0"



4 JAMB TERMINATION
3.1 REF: NONE
SCALE: 6"=1'-0"



5 TYP. VERTICAL JOINT
3.1 REF: NONE
SCALE: 6"=1'-0"



6 STIFFENER/RETAINER DETAIL
3.1 REF: NONE
SCALE: 6"=1'-0"

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ALFLEX 4MM FR COMPOSITE WALL
PANEL WITH ZEUS RAINSCREEN
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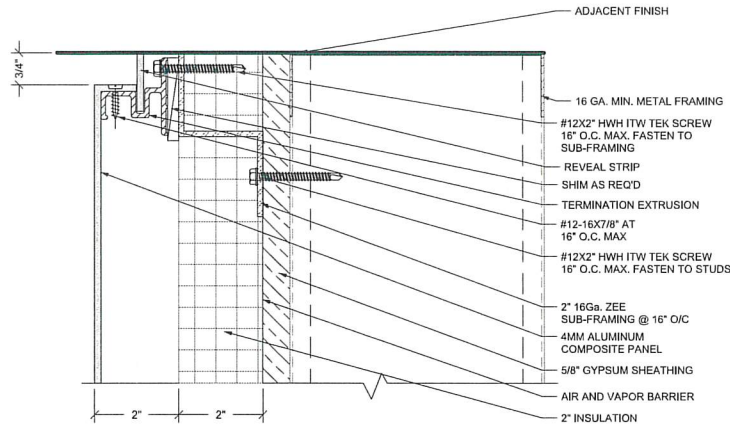
ELRO MANUFACTURING
90 SOUTH BRADSHAW RD.,
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DETAILS

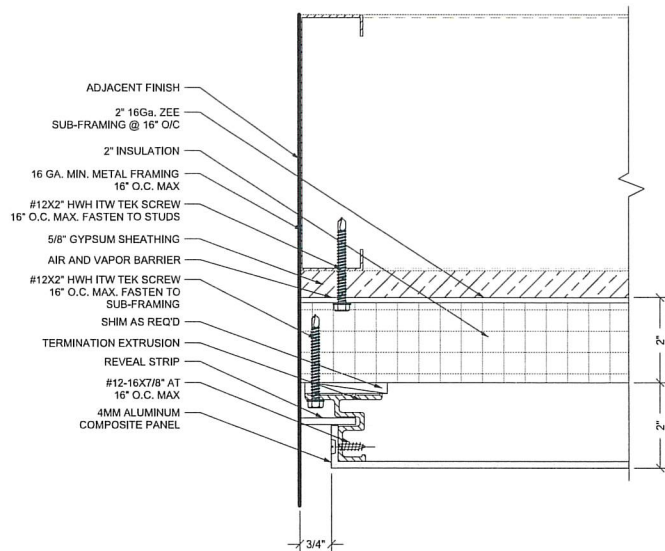
3.1

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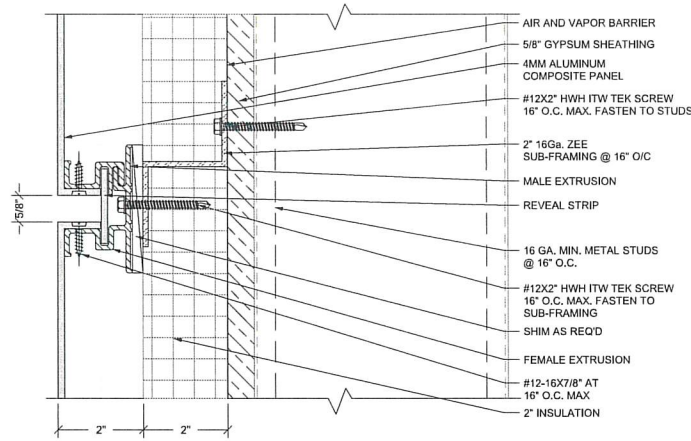
RAINSCREEN DETAILS WITH
INSULATION AND SUB-FRAMING



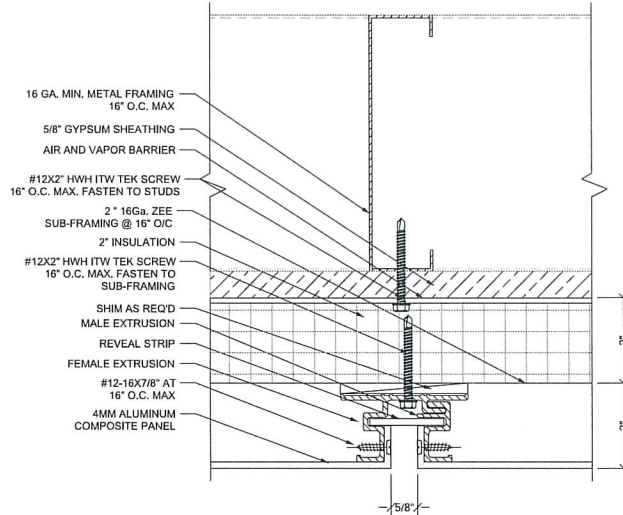
1
3.2 HEAD TERMINATION
REF: NONE
SCALE: 6"=1'-0"



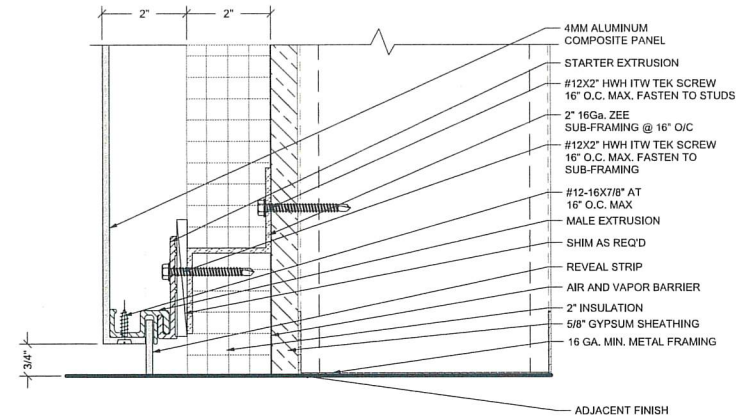
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3.2 JAMB TERMINATION
REF: NONE
SCALE: 6"=1'-0"



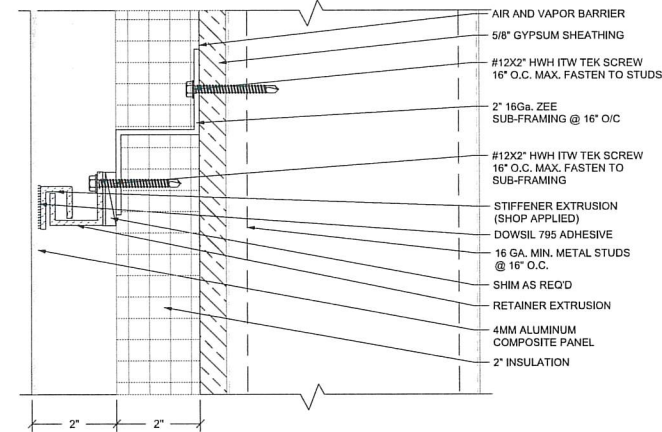
2
3.2 TYP. HORIZONTAL JOINT
REF: NONE
SCALE: 6"=1'-0"



5
3.2 TYP. VERTICAL JOINT
REF: NONE
SCALE: 6"=1'-0"



3
3.2 TYP. BASE TERMINATION
REF: NONE
SCALE: 6"=1'-0"



6
3.2 STIFFENER/RETAINER DETAIL
REF: NONE
SCALE: 6"=1'-0"

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3.2

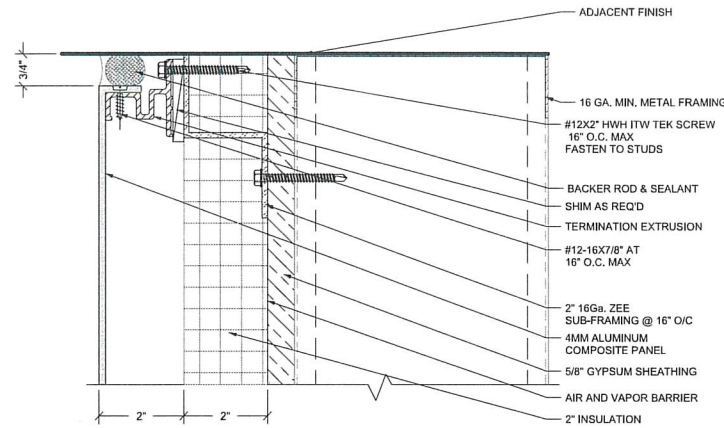
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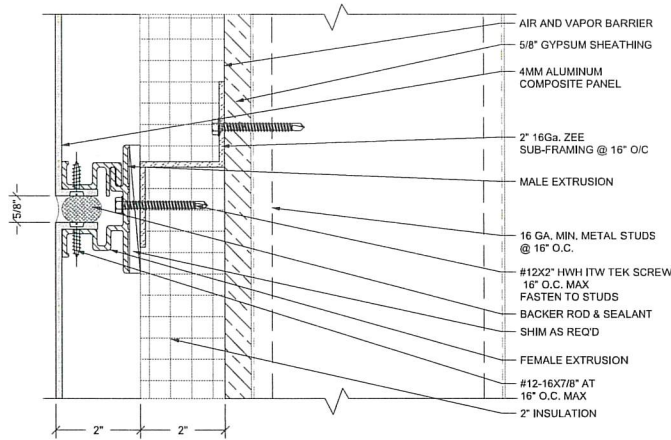
SEAL
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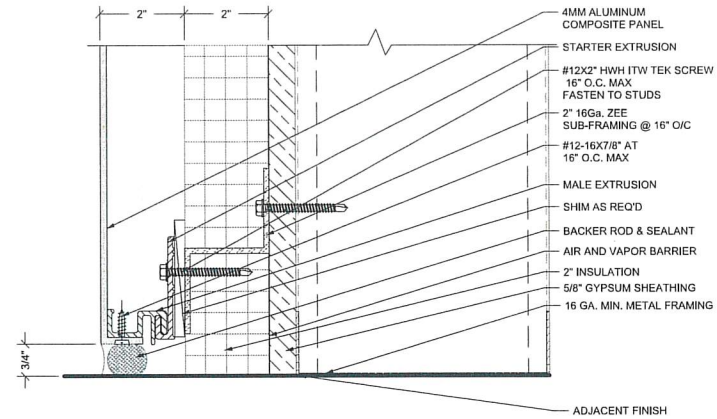
WET SEAL DETAILS WITH
INSULATION AND SUB-FRAMING



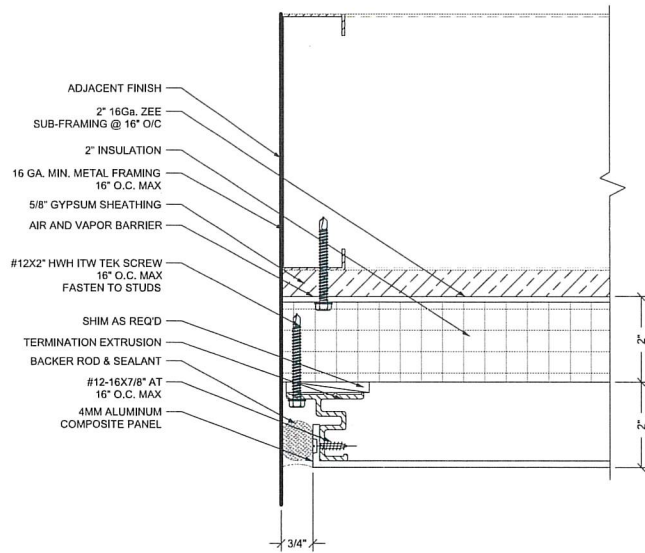
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3.3 HEAD TERMINATION
REF: NONE
SCALE: 6"=1'-0"



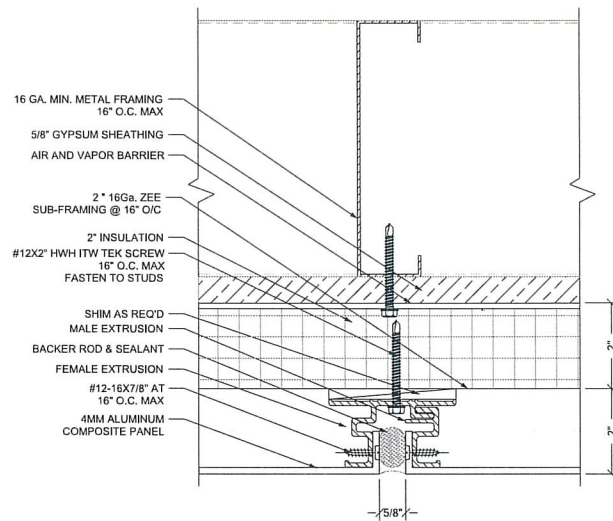
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3.3 TYP. HORIZONTAL JOINT
REF: NONE
SCALE: 6"=1'-0"



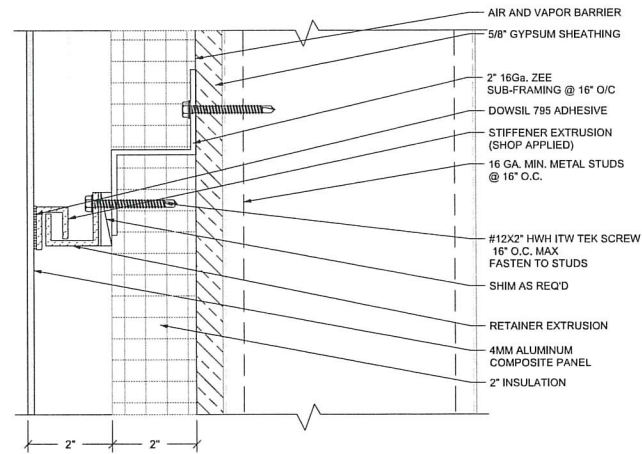
3
3.3 TYP. BASE TERMINATION
REF: NONE
SCALE: 6"=1'-0"



4
3.2 JAMB TERMINATION
REF: NONE
SCALE: 6"=1'-0"



5
3.3 TYP. VERTICAL JOINT
REF: NONE
SCALE: 6"=1'-0"



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3.3 STIFFENER/RETAINER DETAIL
REF: NONE
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3.3

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FL PE# 62354

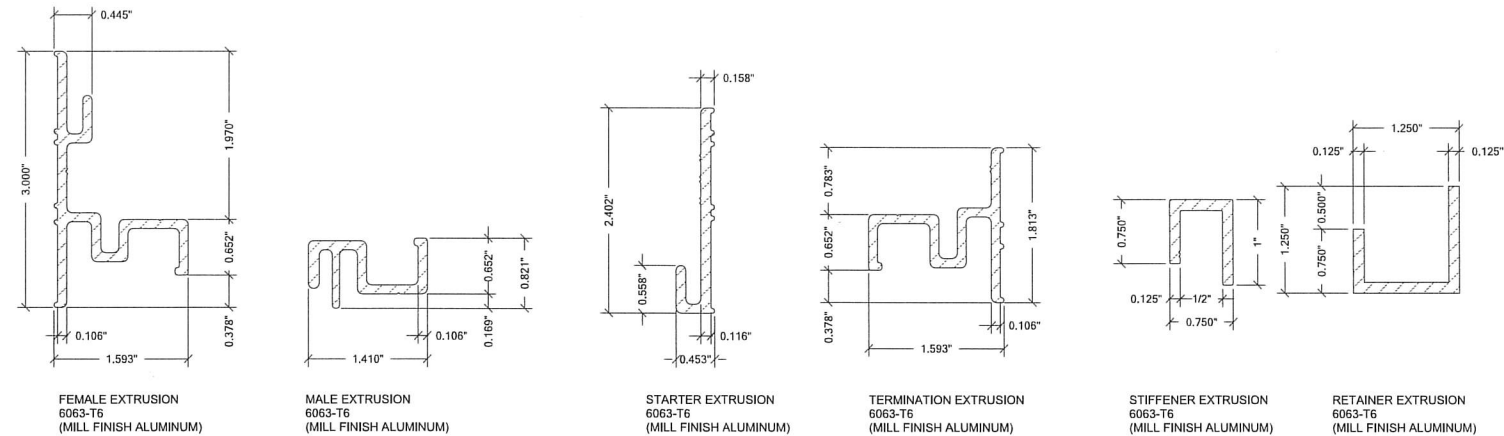
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N.
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL

No 62354

STATE OF
MAY 08 2024

EXTRUSION PROFILES



REVISIONS:

SEAL:

PROJECT #: ELALF-HZ
DRAWN BY: PKA
CHECKED BY: YM/MR
DATE: 04.17.24

ALFREX 4MM FR COMPOSITE WALL
PANEL WITH ZEUS RAINSCREEN
AND WET-SEAL MOUNTING SYSTEM

ELRO MANUFACTURING

90 SOUTH BRADSHAW RD.
APOPKA, FL 32703

EXTRUSION
PROFILES

3.4

SCOTT WOLTERS
FL PE# 62354

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