

GENERAL DATA

Occupancy Group: Unoccupied fire training simulator/nonbuilding structure
Occupancy Load: Less than 50
Construction Type: Type II-B
Area: 2611 sq. ft.
Height: 40 ft
Stories: 4
Allowable Area: N/A
Fire Sprinkler: N/A

COLORS SELECTED:

BUILDING COLOR: SLATE GRAY
WINDOW AND DOOR TRIM COLOR: GARNET
EXTERIOR DOOR OTHER THAN BURN DOORS: BRONZE
NOTE: Burn room doors and all shutters are Galvanized Steel

DRAWING INDEX

PAGE 01 – FLOOR PLANS
PAGE 02 – FLOOR PLANS CONT.
PAGE 03 – ELEVATIONS
PAGE 04 – ELEVATIONS CONT.
PAGE 05 – ANCHOR BOLT PLAN
PAGE 06 – STRUCTURAL FRAMING PLAN
PAGE 07 – STRUCTURAL ELEVATIONS
PAGE 08 – STRUCTURAL ELEVATIONS CONT.
PAGE 09 – STRUCTURAL SECTIONS
PAGE 10 – STRUCTURAL SECTIONS CONT.
PAGE 11 – JOIST PLAN
PAGE 12 – JOIST PLAN CONT.
PAGE 13 – STUD WALL ELEVATIONS AND DETAILS
PAGE 14 – STUD WALL ELEVATIONS AND DETAILS CONT.
PAGE 15 – ANNEX BURN ROOM #1 PLAN AND DETAILS
PAGE 16 – BURN ROOM #2 PLAN AND DETAILS
PAGE 17 – WESTEC SYSTEM DETAILS
PAGE 18 – WESTEC SYSTEM DETAILS CONT
PAGE 19 – PARAPET DETAILS
PAGE 20 – RECESSED BALCONY DETAILS
PAGE 21 – MISC. DETAILS
PAGE 22 – MISC. DETAILS CONT.
PAGE 23 – MISC. DETAILS CONT.
PAGE 24 – SHUTTER/BURN DOOR LEVER LATCH DETAILS
PAGE 25 – STAIR DETAILS

DESIGN LOADS:

FLOOR LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 100 PSF
WIND LOAD: 128 MPH; RISK CAT I; EXP C
SEISMIC DESIGN CAT: A
SITE CLASS: D
DESIGN CODE: FBC 2020 AND NFPA 1402

NFPA 1402 is the Standard on Facilities for Fire Training and Associated Props. Chapters 1.2.2 and A.1.2.2 state the following "Fire training structures are not occupied buildings. Building code requirements for many occupied building items, such as fire protection, HVAC, finishes, and accessibility per the ADA, do not apply to fire training structures."

MATERIAL SPECIFICATIONS:

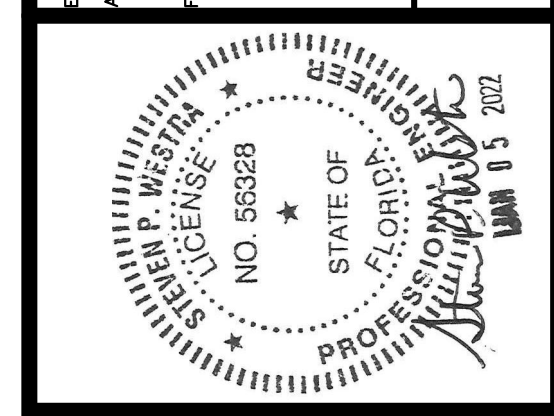
W SHAPES: ASTM A992 (Fy = 50 ksi).
HSS: ASTM A500 (GRADE B).
PLATES: ASTM A36 OR ASTM A572 (GRADE 50).
ANGLES: ASTM A36.
C SHAPES: ASTM A36.
BOLTS: ASTM A325N.
LIGHT GAUGE STEEL: ASTM A653 OR ASTM A924.
WELDS Field Welding Not Required; Shop Electrodes E71T-1

SPECIAL INSPECTIONS
(cont. reports required for submittal to city inspector):

- 1. HIGH STRENGTH BOLTS
- 2. REINF. CONC W/ F'c > 2.5ksi
- 3. WELDING – NO FIELD WELDING REQUIRED

INSPECTIONS FOR REINF. CONCRETE SHALL TAKE PLACE PRIOR/DURING FOUNDATION CONSTRUCTION AND INSPECTIONS FOR HIGH STRENGTH BOLTS DURING SUPERSTRUCTURE PLACEMENT.

REVISIONS	by



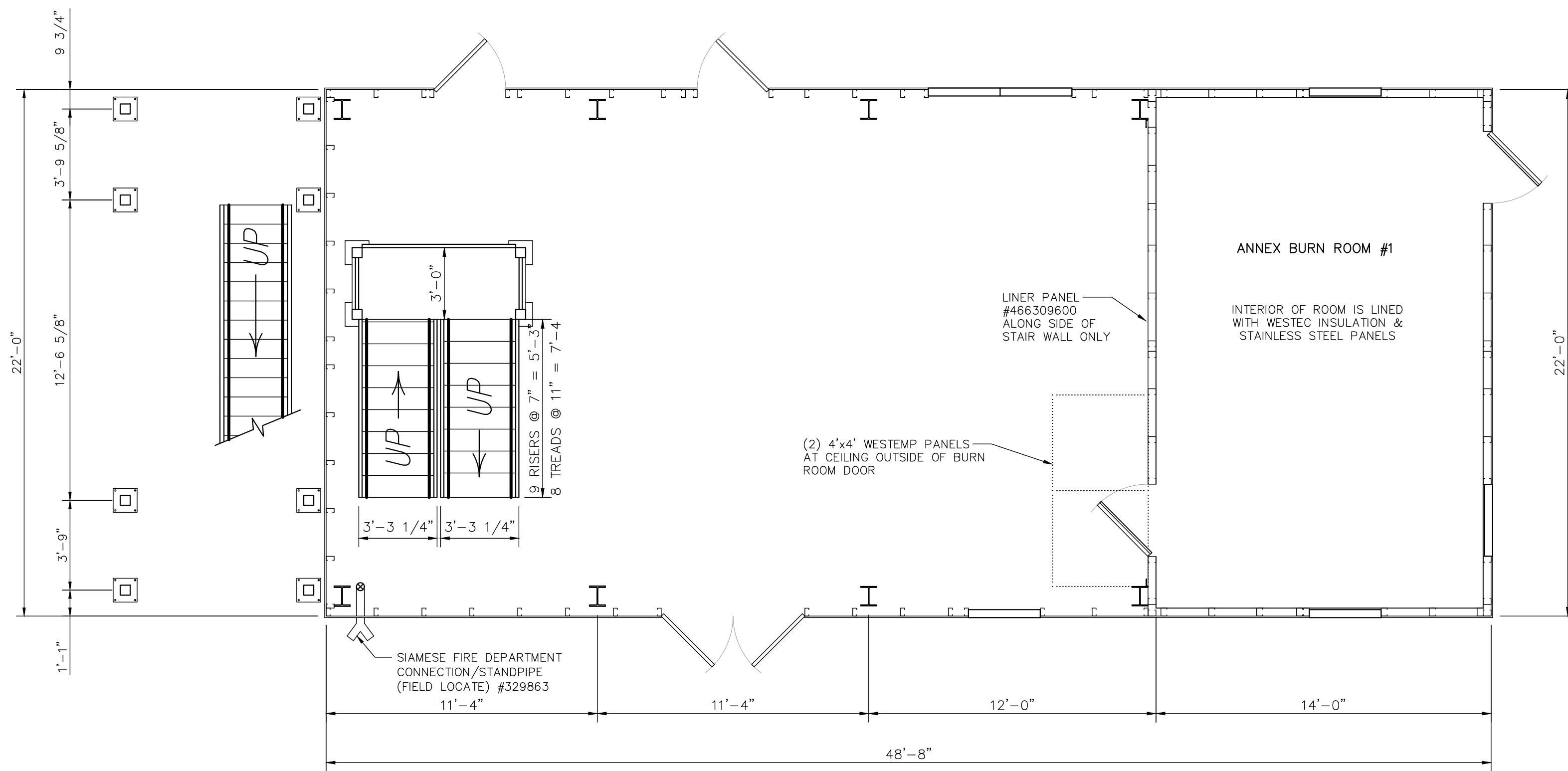
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Job Description: **WESCO MODEL FF-4**
CUSTOM
CRESTVIEW, FL

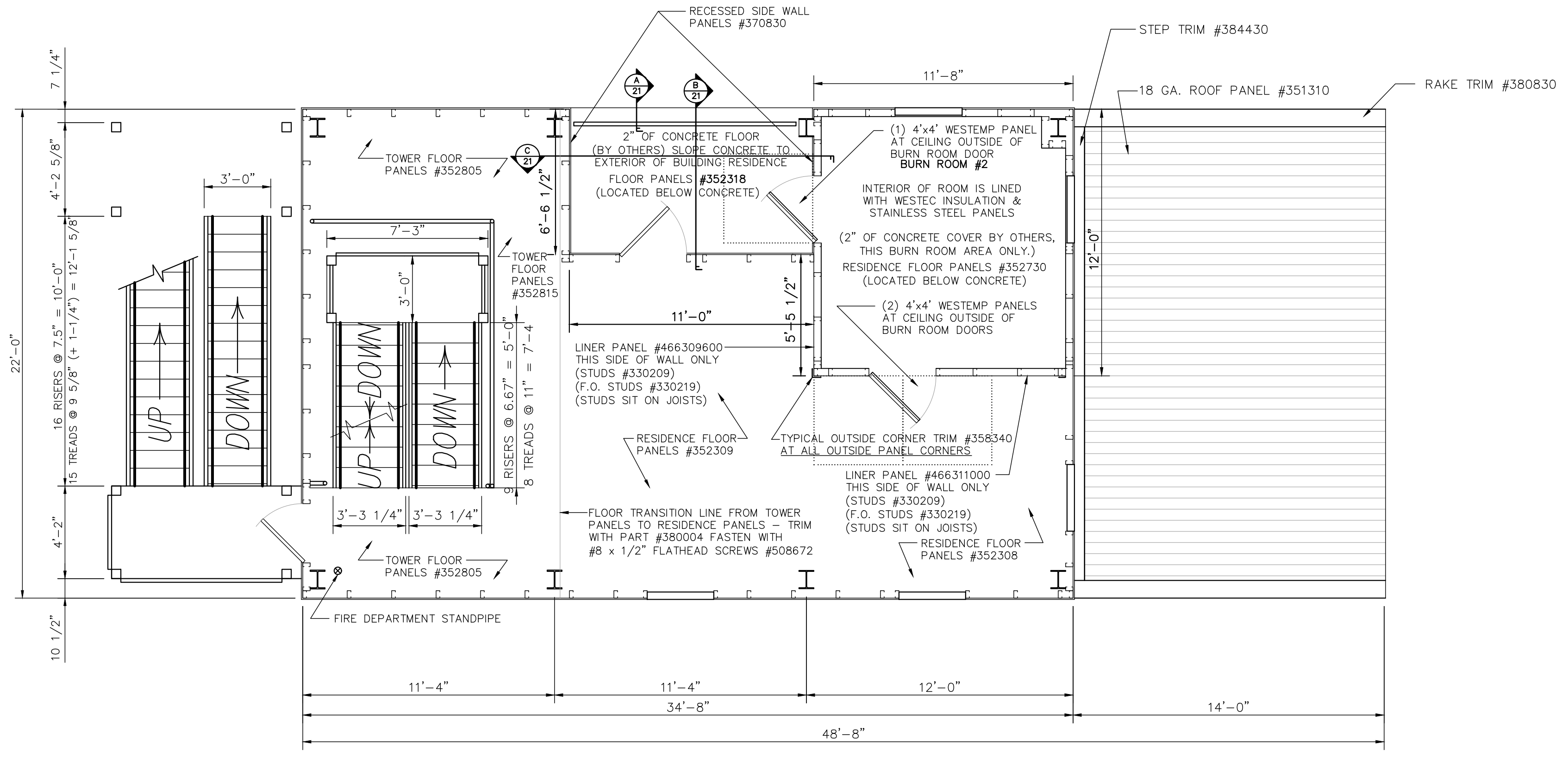
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Order No: FTE-796 / #244368
Sheet No. TITLE PAGE



FIRST FLOOR PLAN

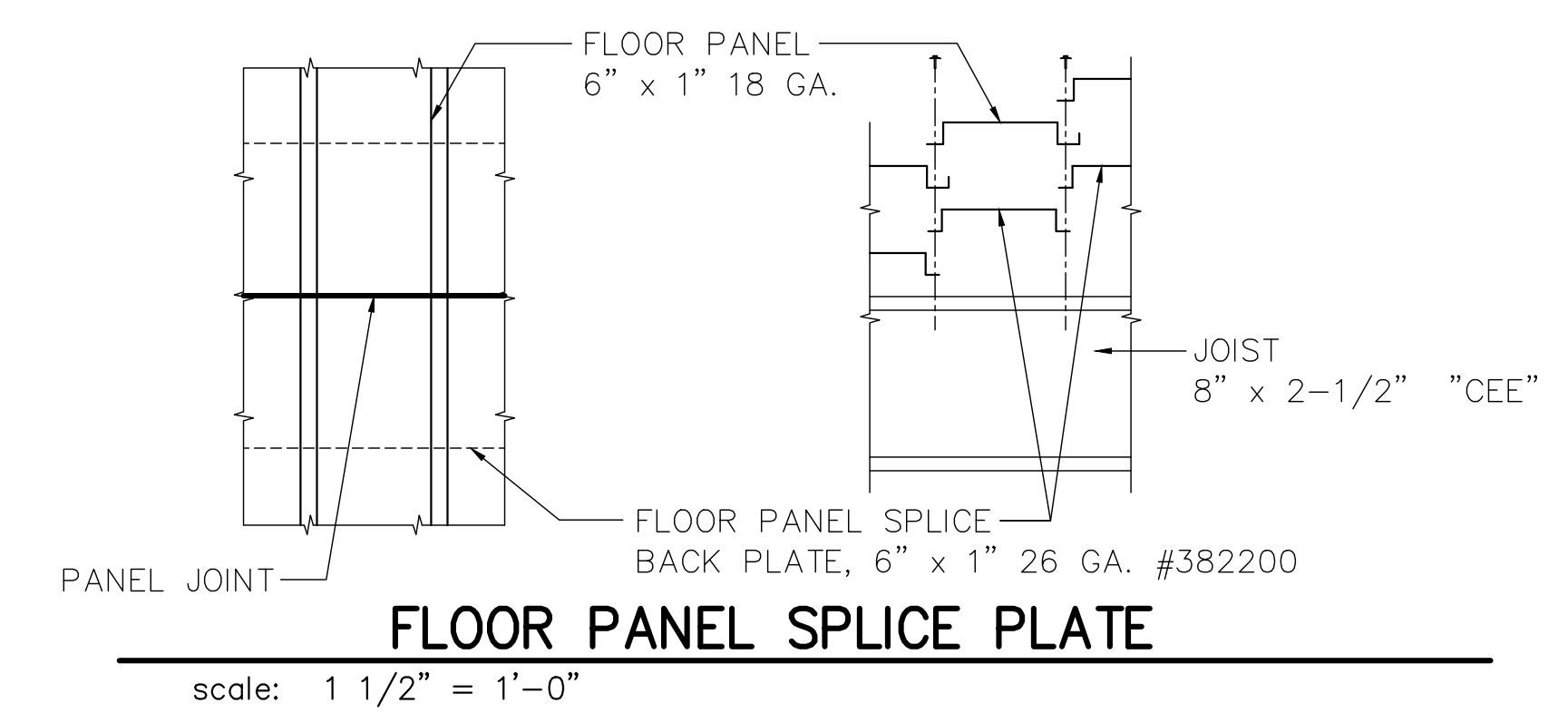
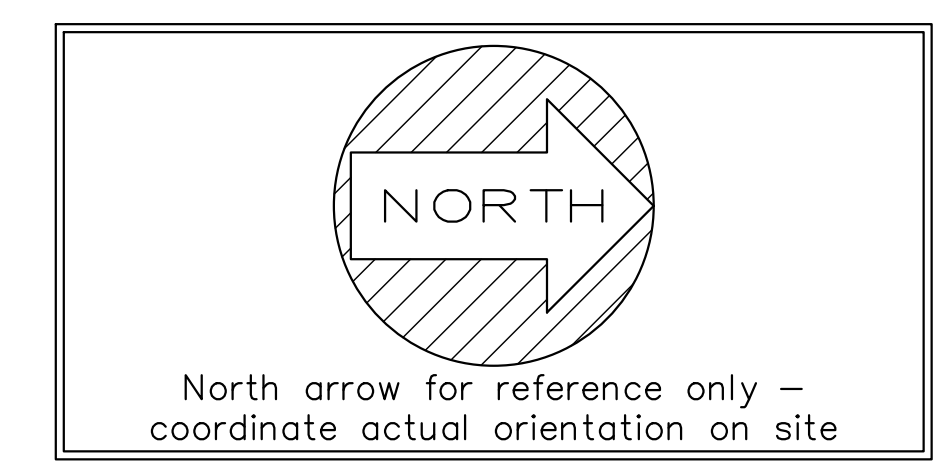
SCALE: 1/4" = 1'-0"

NOTE: ALL SHUTTERS IN TOWER (#392100) SWING IN, UNLESS OTHERWISE SHOWN
ALL SHUTTERS IN BURN ROOM (#392300) & ATTIC (#392600) SWING OUT, UNLESS OTHERWISE SHOWN

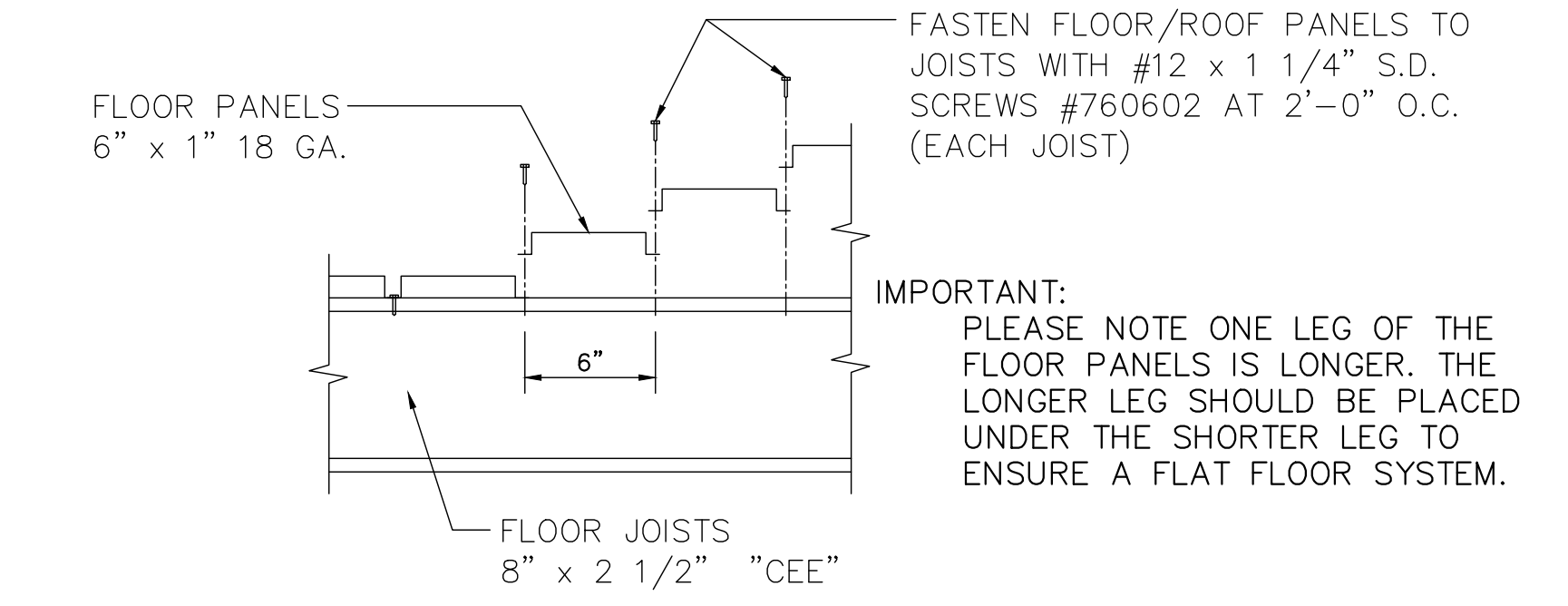


SECOND FLOOR PLAN

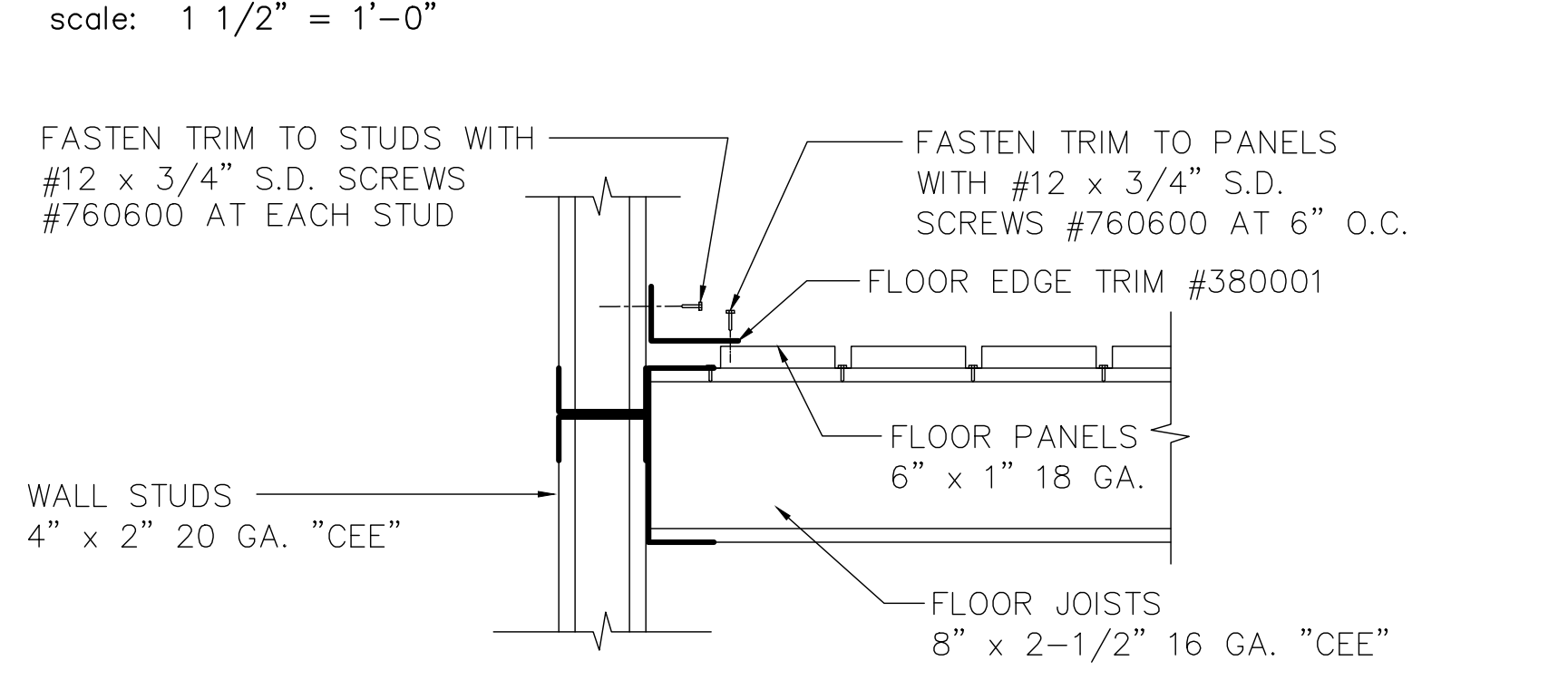
SCALE: 1/4" = 1'-0"



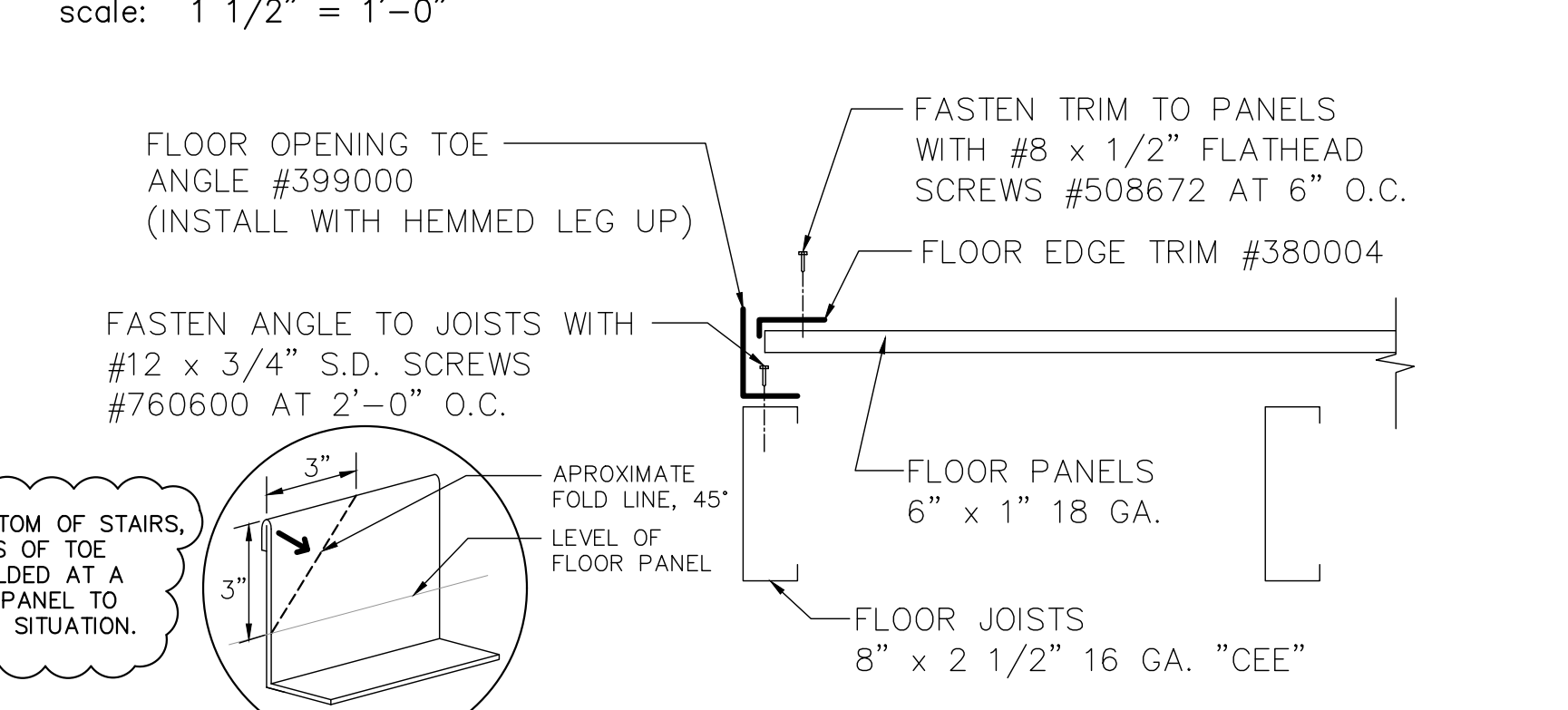
FLOOR PANEL SPLICE PLATE



TYPICAL FLOOR PANEL FASTENING DETAIL

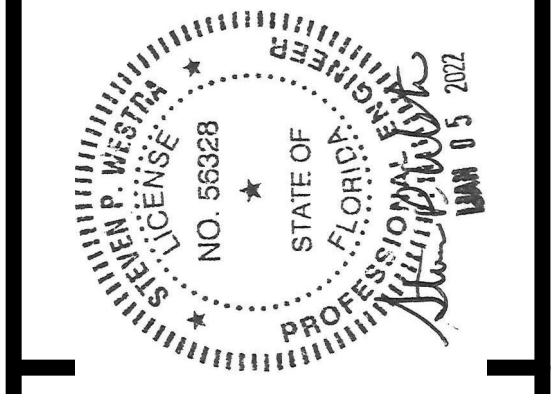


TYPICAL FLOOR EDGE TRIM DETAIL



TYPICAL FLOOR OPENING TRIM DETAIL

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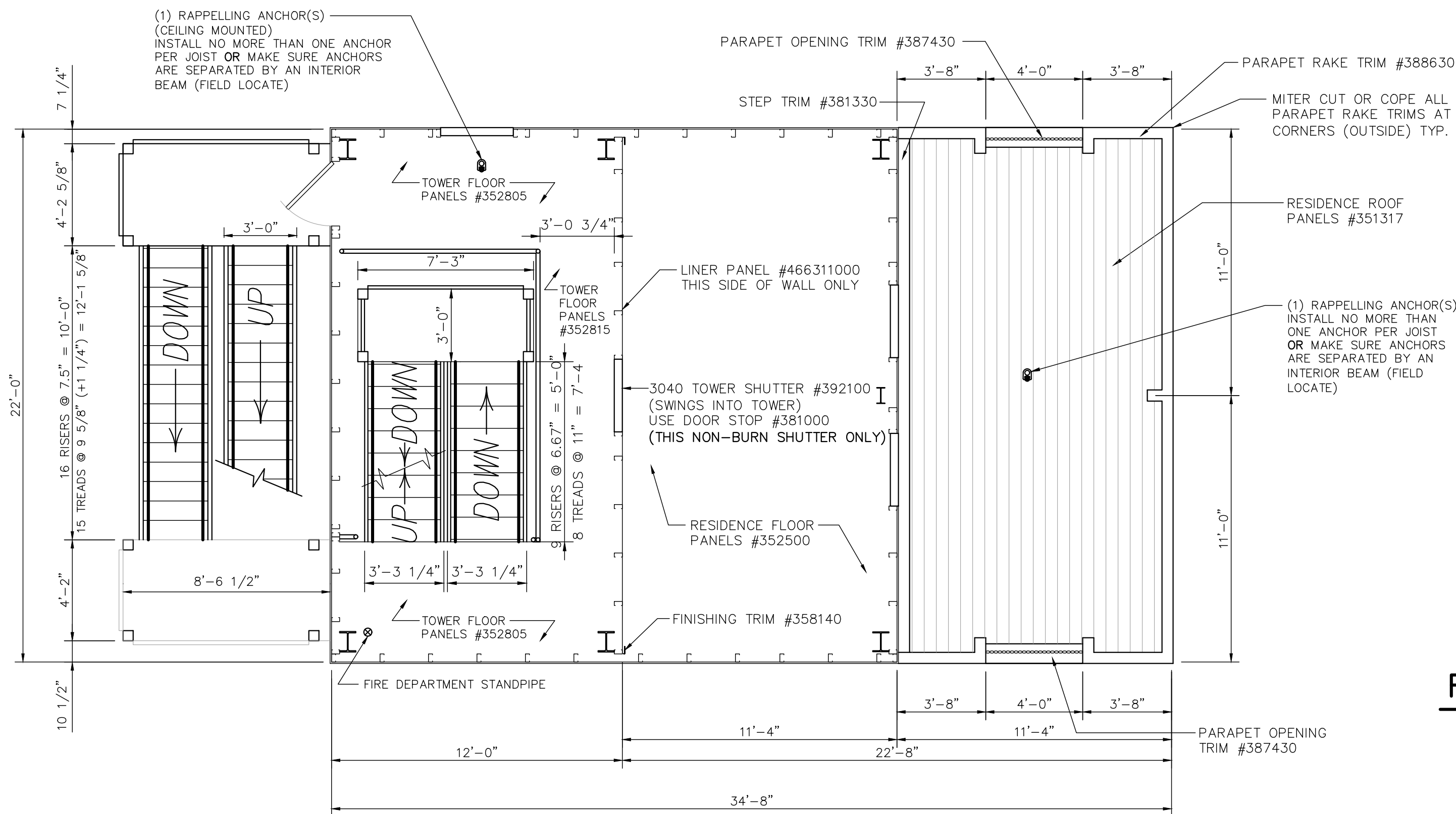
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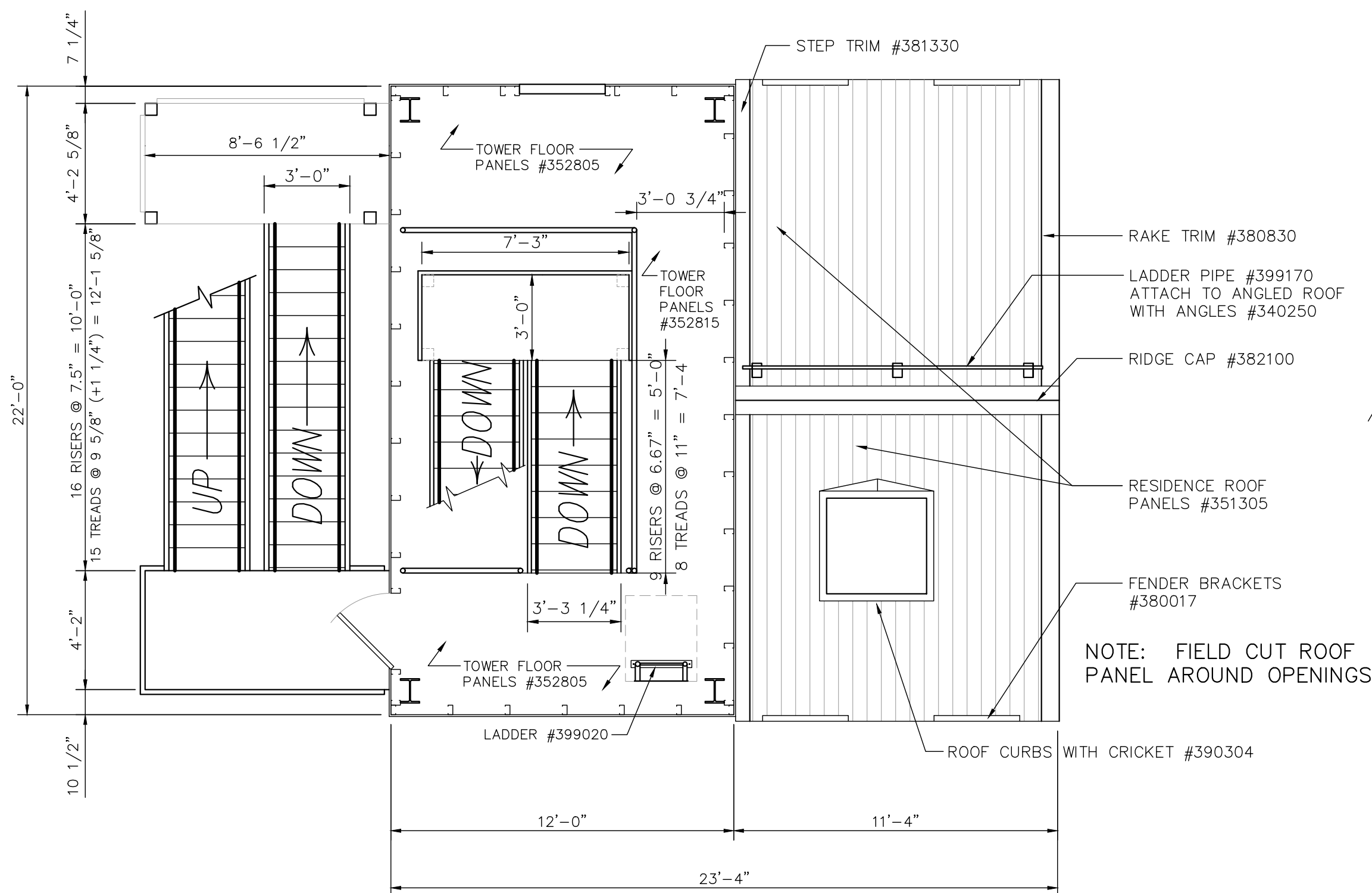
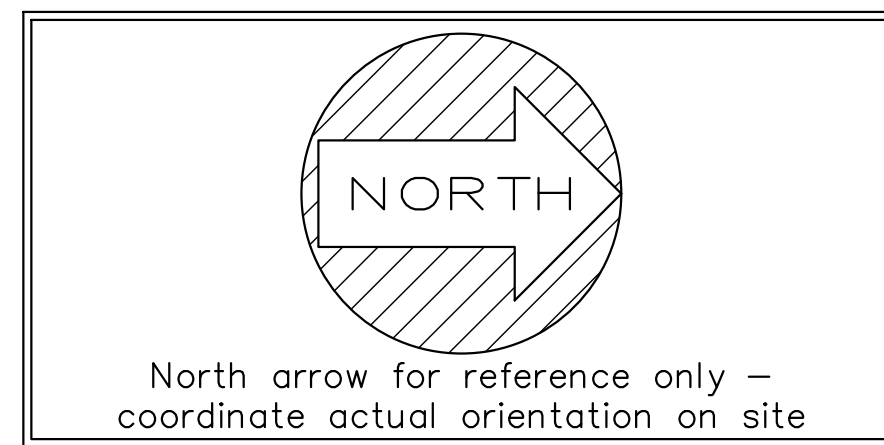
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Sheet Title:	FLOOR PLANS
Date:	DECEMBER 10, 2021
Drawn by:	WDM
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Scale:	SHOWN
Order No.:	FTE-796 / #244368
Sheet No.:	01 of 25



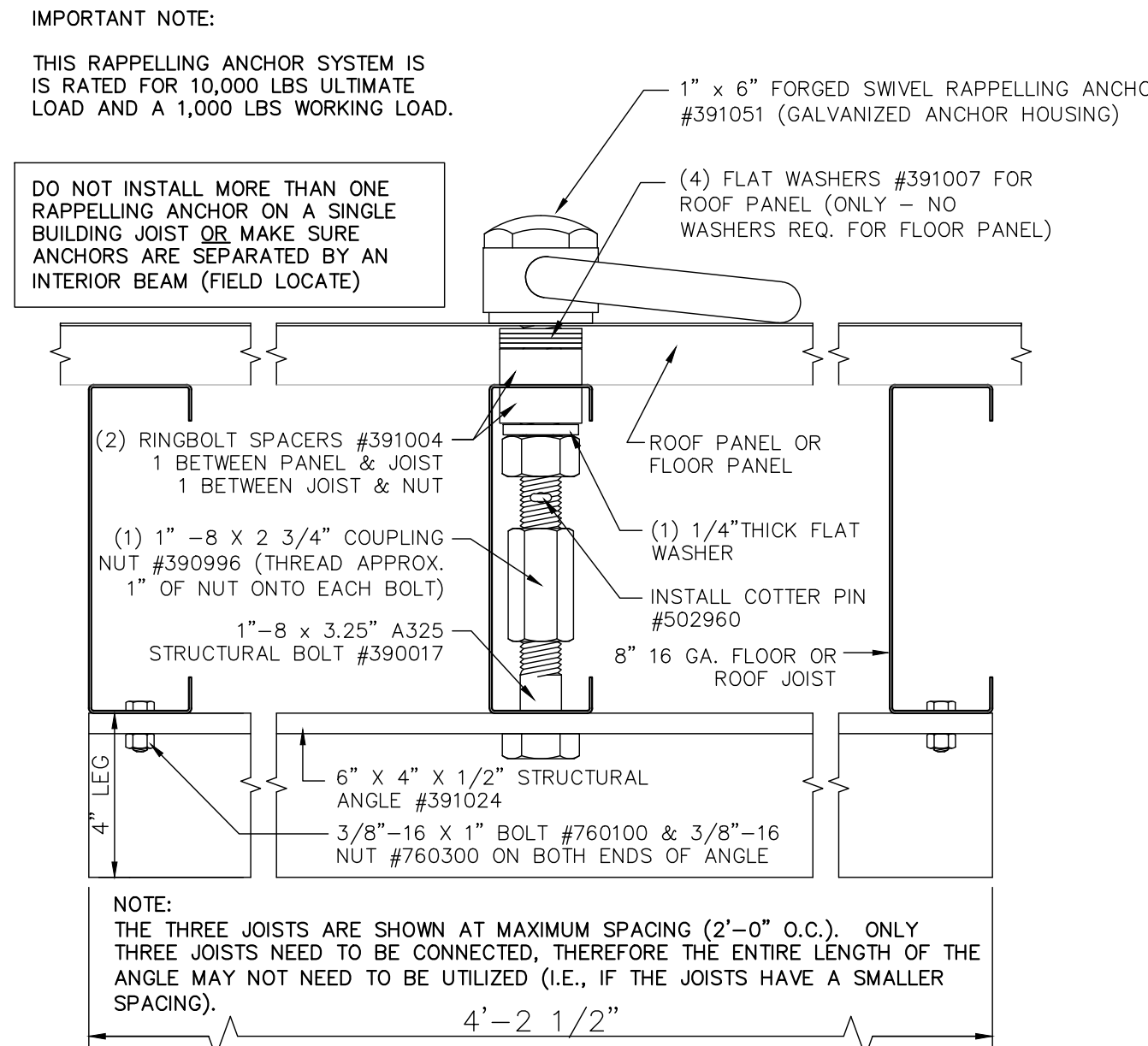
TOWER THIRD FLOOR & ATTIC PLAN

SCALE: 1/4" = 1'-0"



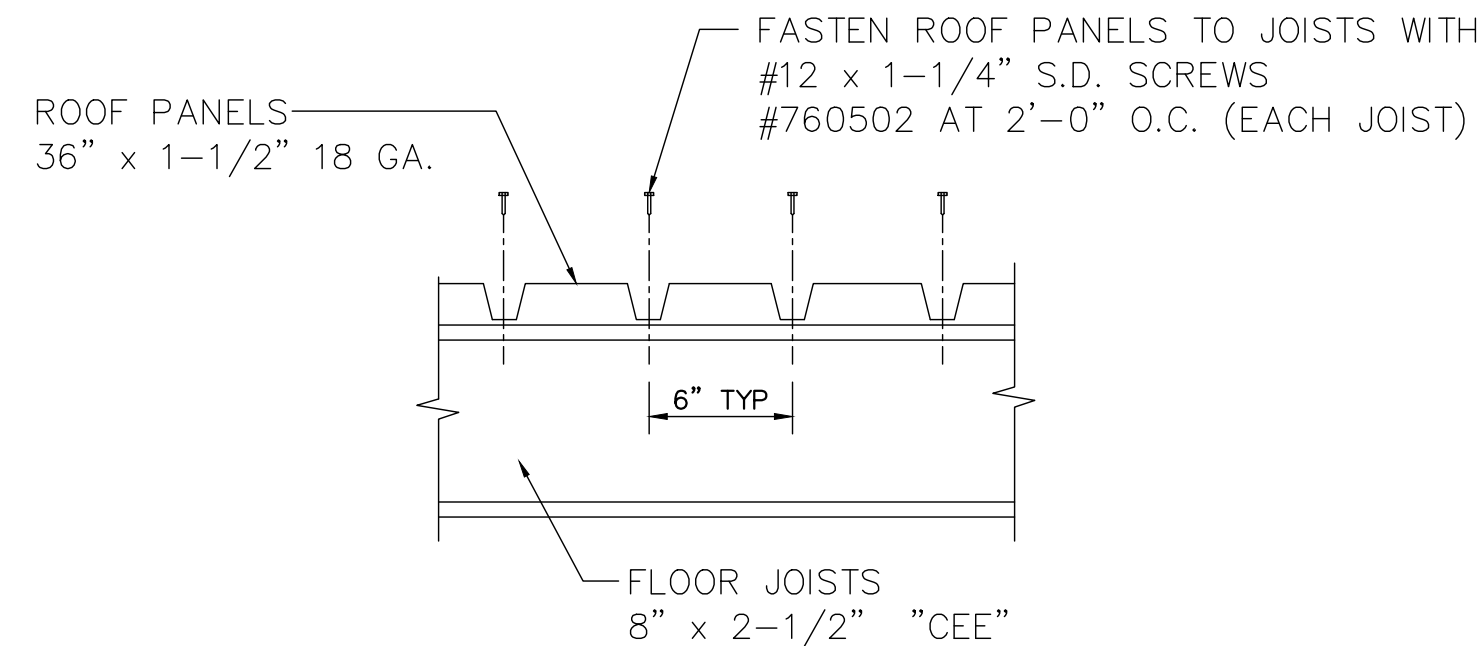
TOWER FOURTH FLOOR AND RESIDENCE ROOF PLAN

SCALE: 1/4" = 1'-0"



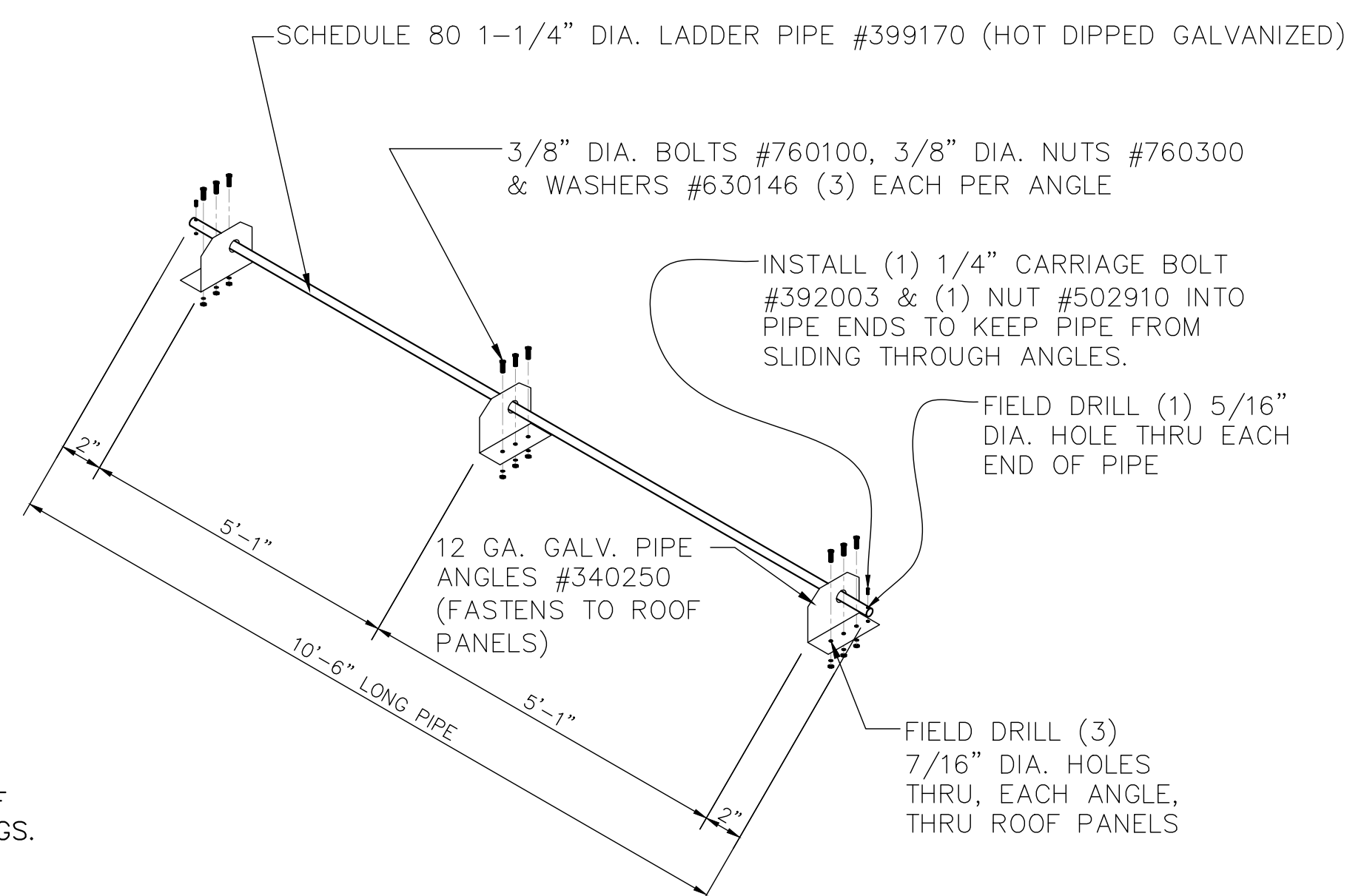
FORGED SWIVEL RAPPELLING ANCHOR INSTALLATION DETAIL (X3)

scale: 3" = 1'-0"

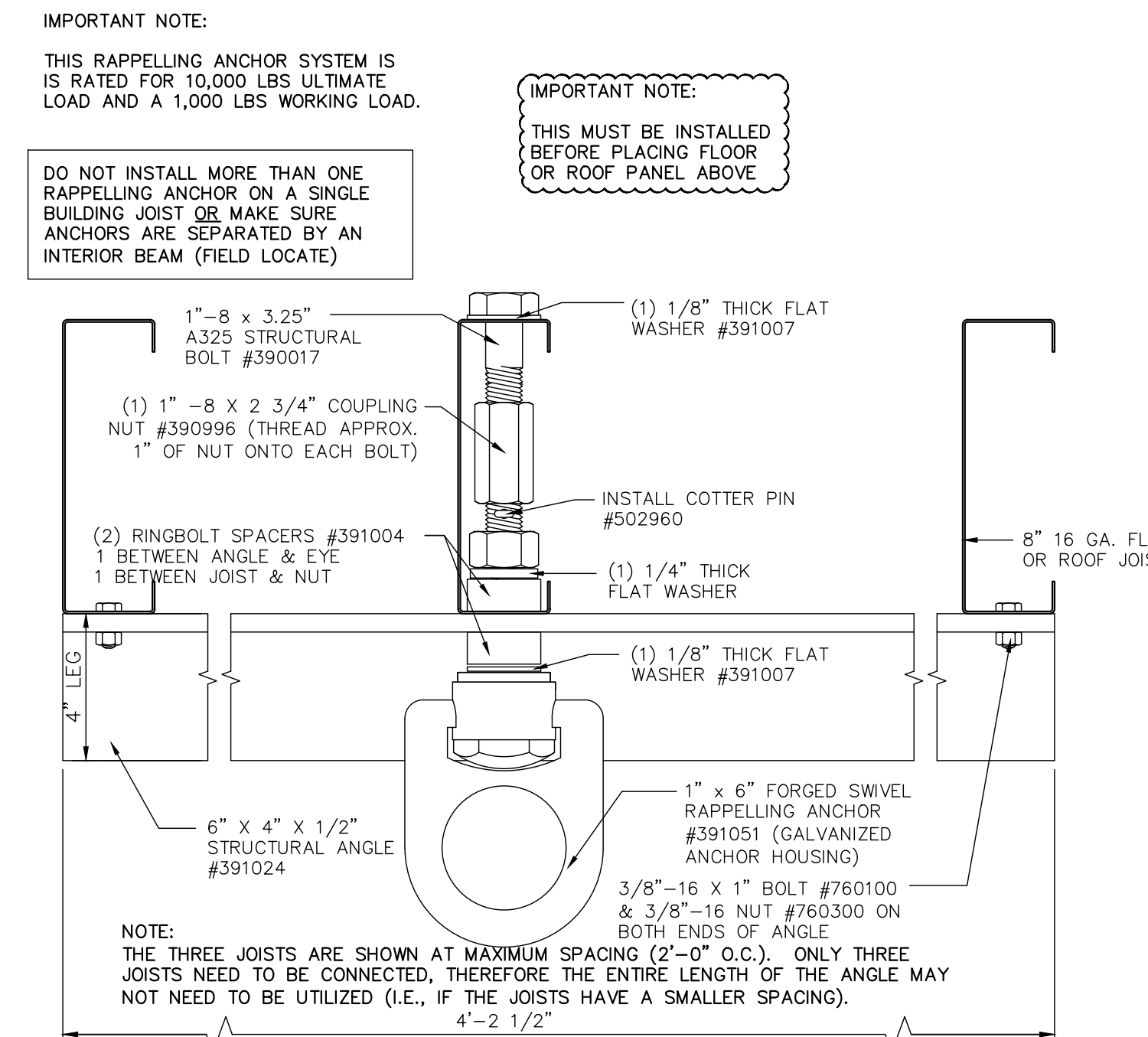


TYPICAL ROOF PANEL FASTENING DETAIL

scale: 1 1/2" = 1'-0"

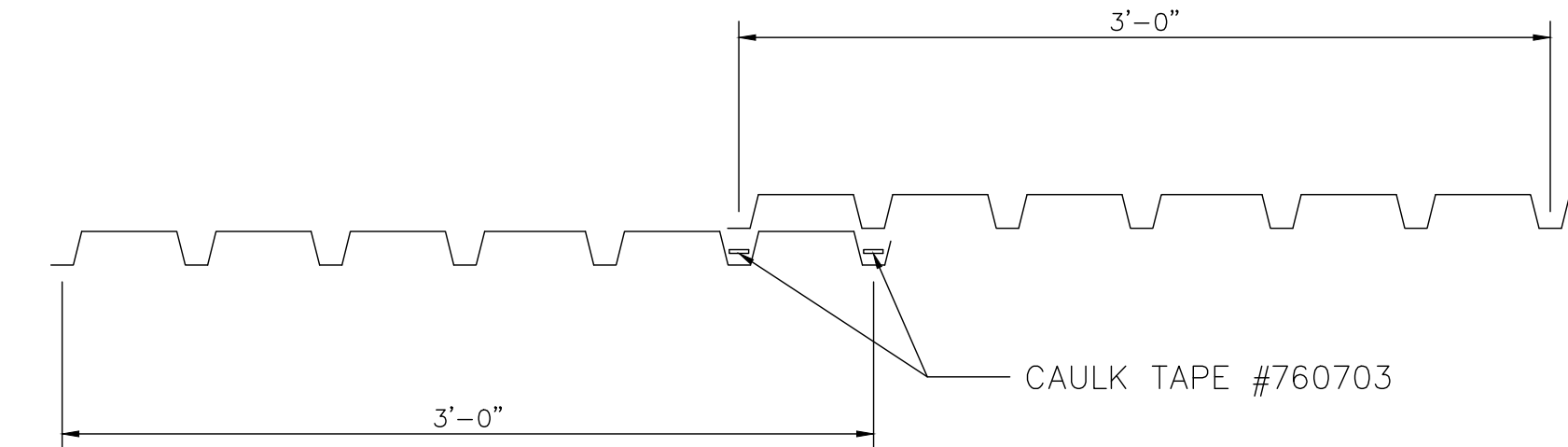


LADDER PIPE ANCHOR DETAIL (X1)



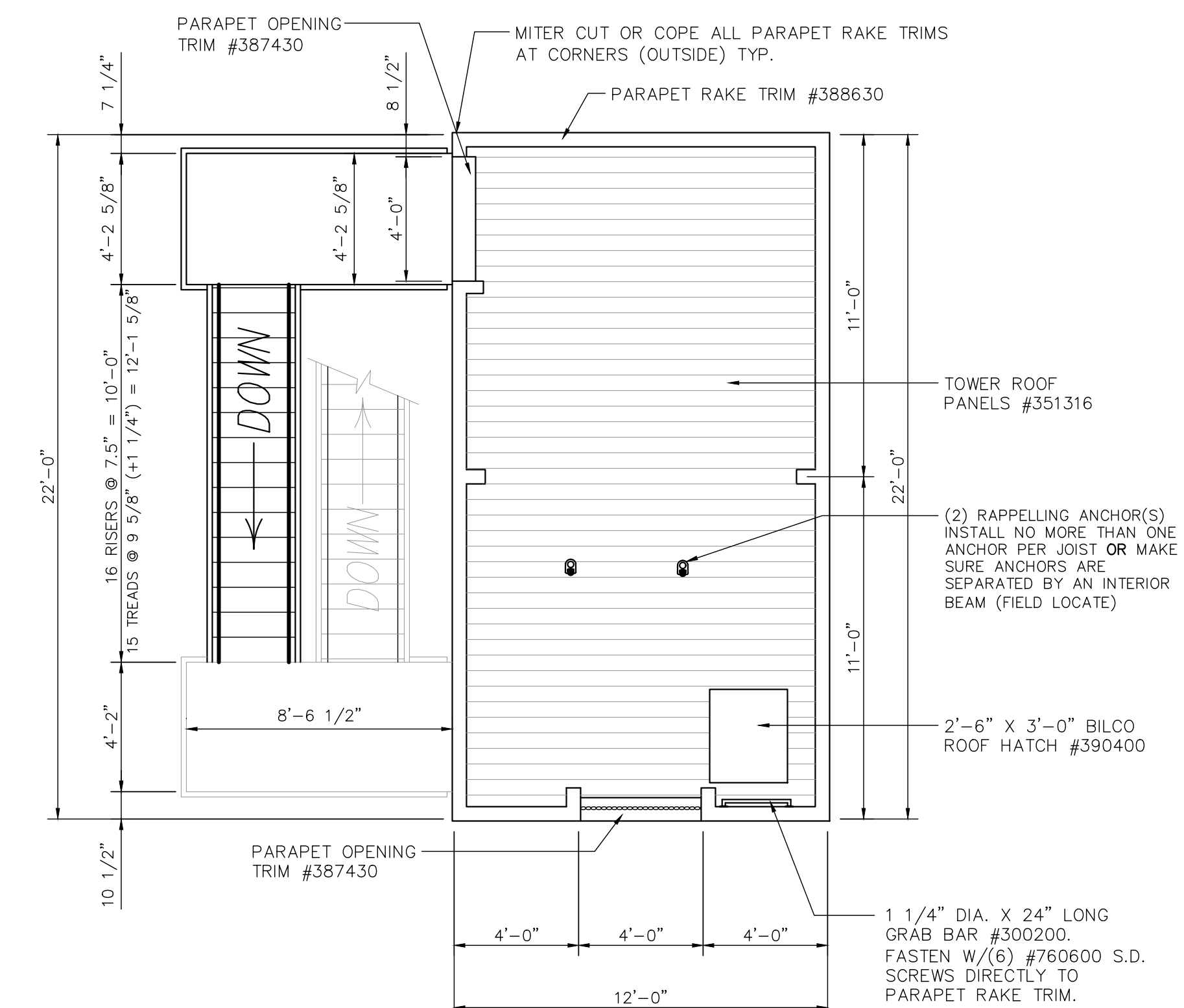
FORGED SWIVEL RAPPELLING ANCHOR CEILING INSTALLATION DETAIL (X1)

scale: 3" = 1'-0"



TYPICAL ROOF PANEL OVERLAP

scale: 1 1/2" = 1'-0"



TOWER ROOF PLAN

SCALE: 1/4" = 1'-0"

IMPORTANT NOTE:
THIS RAPPELLING ANCHOR SYSTEM IS RATED FOR 10,000 LBS ULTIMATE LOAD AND A 1,000 LBS WORKING LOAD.

IMPORTANT NOTE:
THIS MUST BE INSTALLED BEFORE PLACING FLOOR OR ROOF PANEL ABOVE

DO NOT INSTALL MORE THAN ONE RAPPELLING ANCHOR ON A SINGLE BUILDING JOIST OR MAKE SURE ANCHORS ARE SEPARATED BY AN INTERIOR BEAM (FIELD LOCATE)

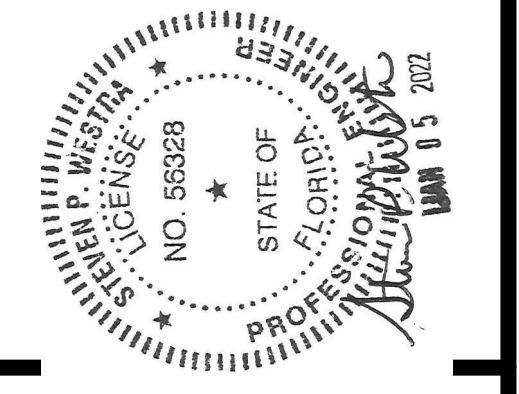
DO NOT INSTALL MORE THAN ONE RAPPELLING ANCHOR ON A SINGLE BUILDING JOIST OR MAKE SURE ANCHORS ARE SEPARATED BY AN INTERIOR BEAM (FIELD LOCATE)

NOTE:
THE THREE JOISTS ARE SHOWN AT MAXIMUM SPACING (2'-0" O.C.). ONLY THREE JOISTS NEED TO BE CONNECTED, THEREFORE THE ENTIRE LENGTH OF THE ANGLE MAY NOT NEED TO BE UTILIZED (I.E., IF THE JOISTS HAVE A SMALLER SPACING).

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THE THREE JOISTS ARE SHOWN AT MAXIMUM SPACING (2'-0" O.C.). ONLY THREE JOISTS NEED TO BE CONNECTED, THEREFORE THE ENTIRE LENGTH OF THE ANGLE MAY NOT NEED TO BE UTILIZED (I.E., IF THE JOISTS HAVE A SMALLER SPACING).

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Florida License #: FE 58328

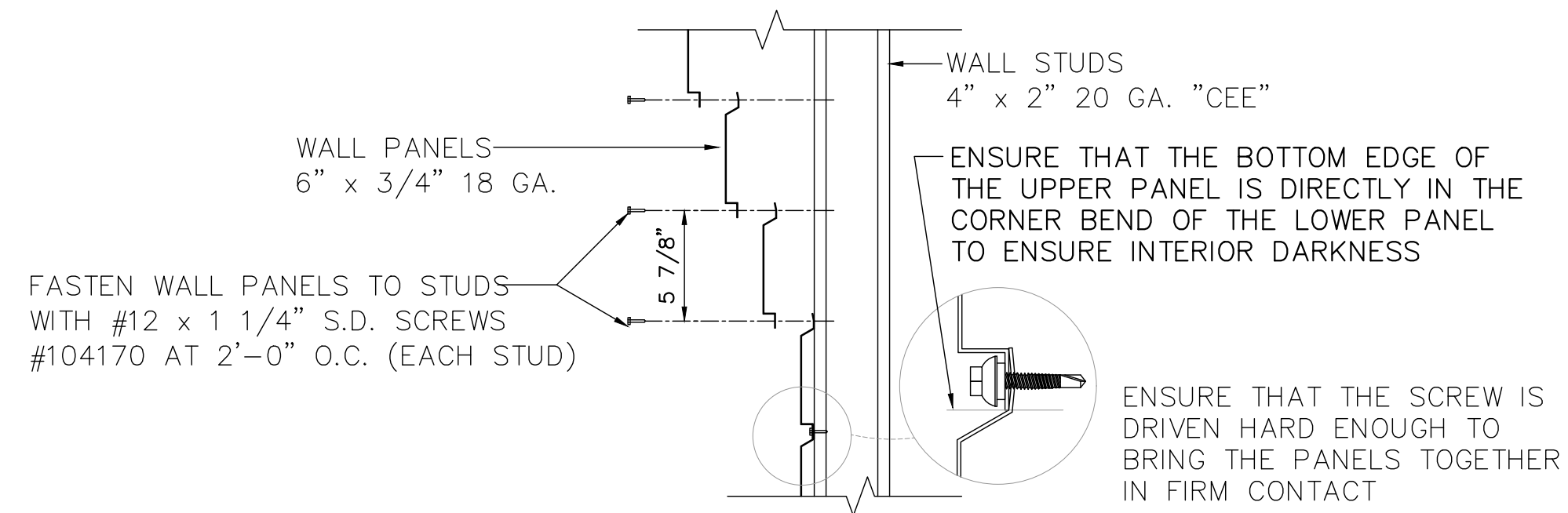


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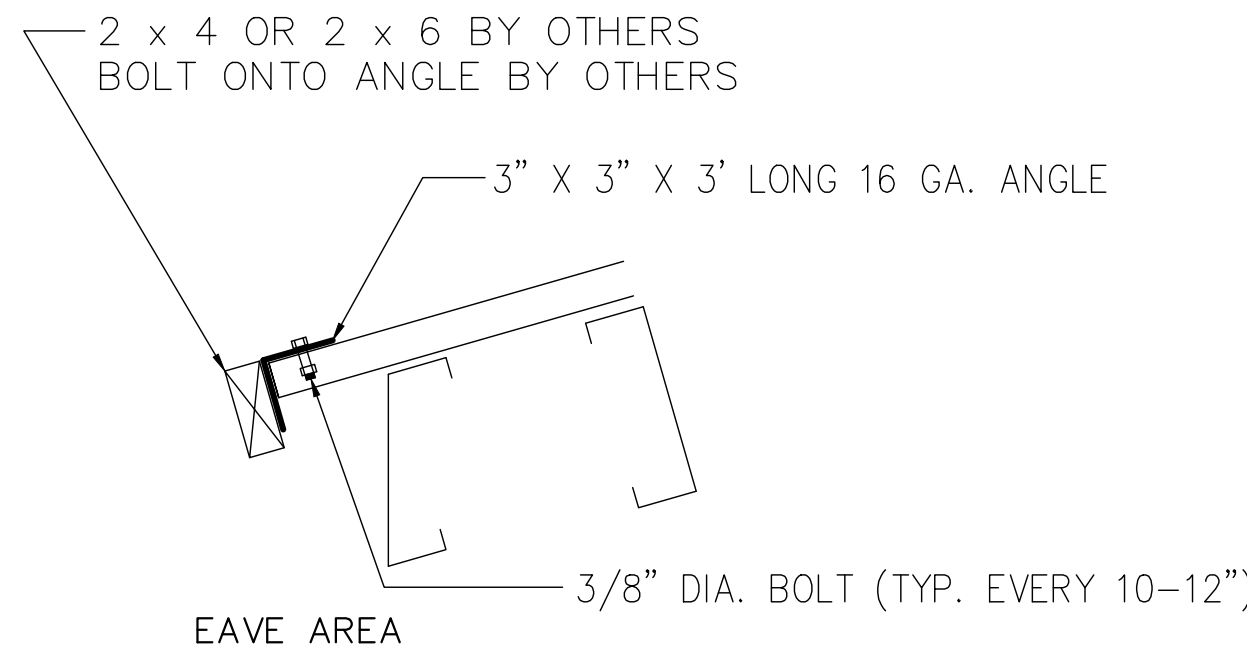
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
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Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	FLOOR PLANS



TYPICAL WALL PANEL FASTENING DETAIL

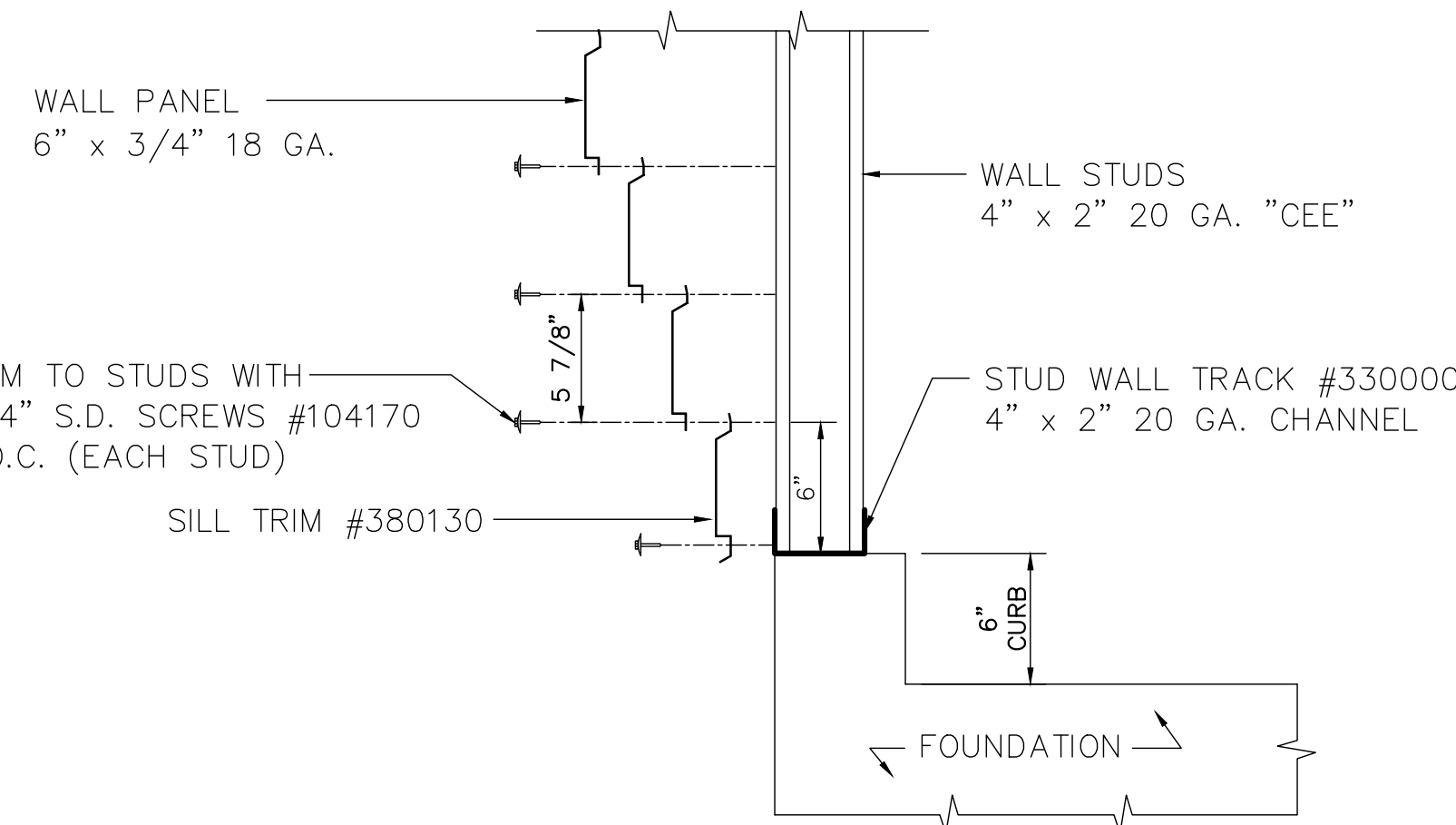
scale: 1 1/2" = 1'-0"



BRACKETS FOR 2X4 FENDER DETAILS

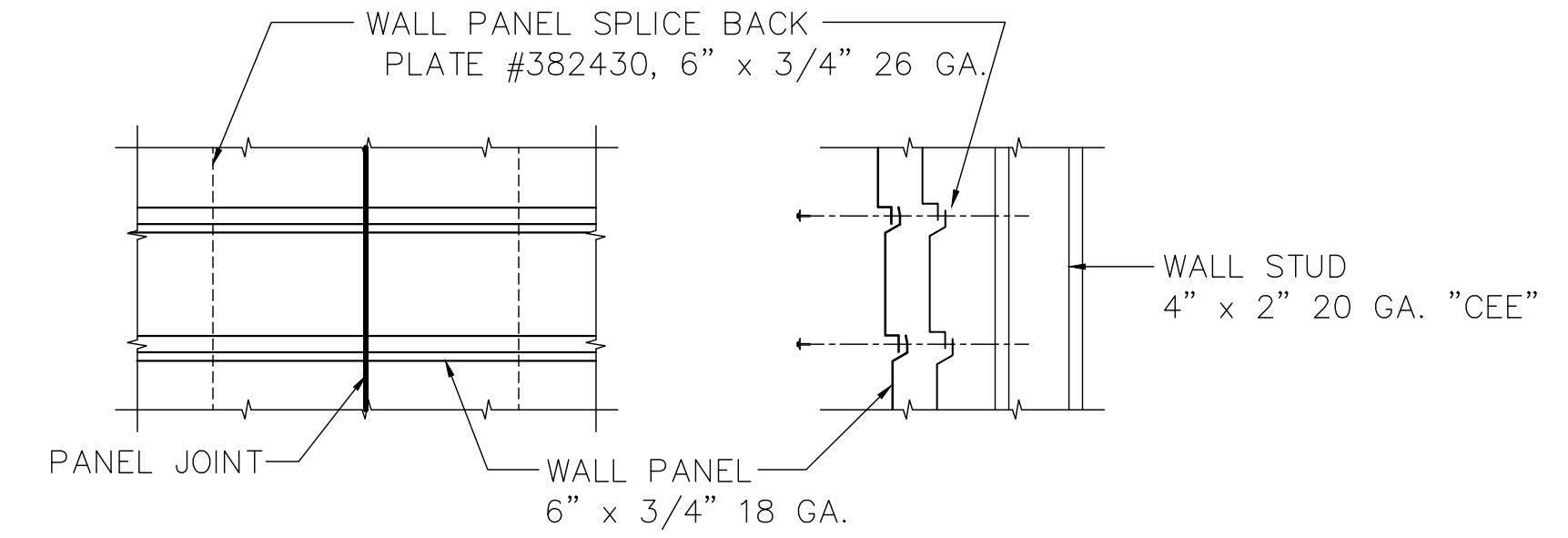
scale: 1 1/2" = 1'-0"

- NOTES:
1. WALL PANEL MUST BE FIELD CUT AROUND FRAMED OPENINGS
 2. TRIMS ARE IN STANDARD 10' LENGTHS SOME FIELD CUTTING OF TRIMS IS REQUIRED



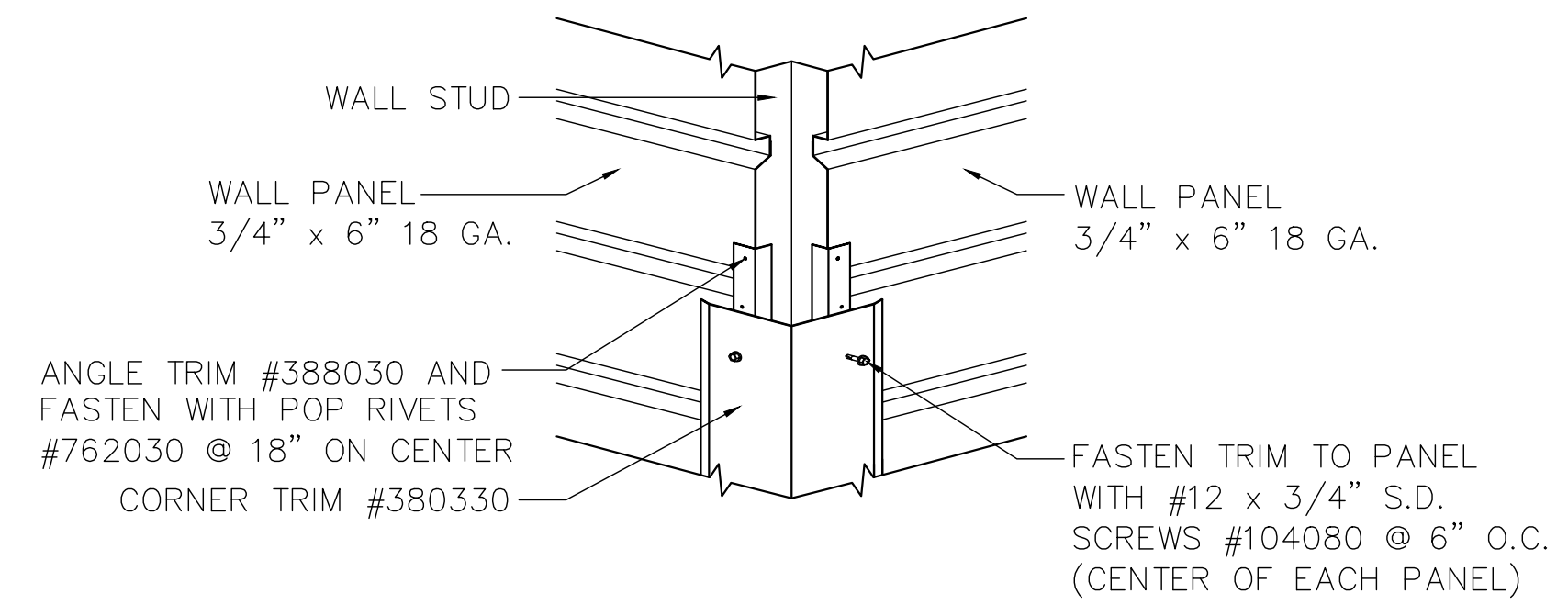
TYPICAL SILL DETAIL

scale: 1 1/2" = 1'-0"



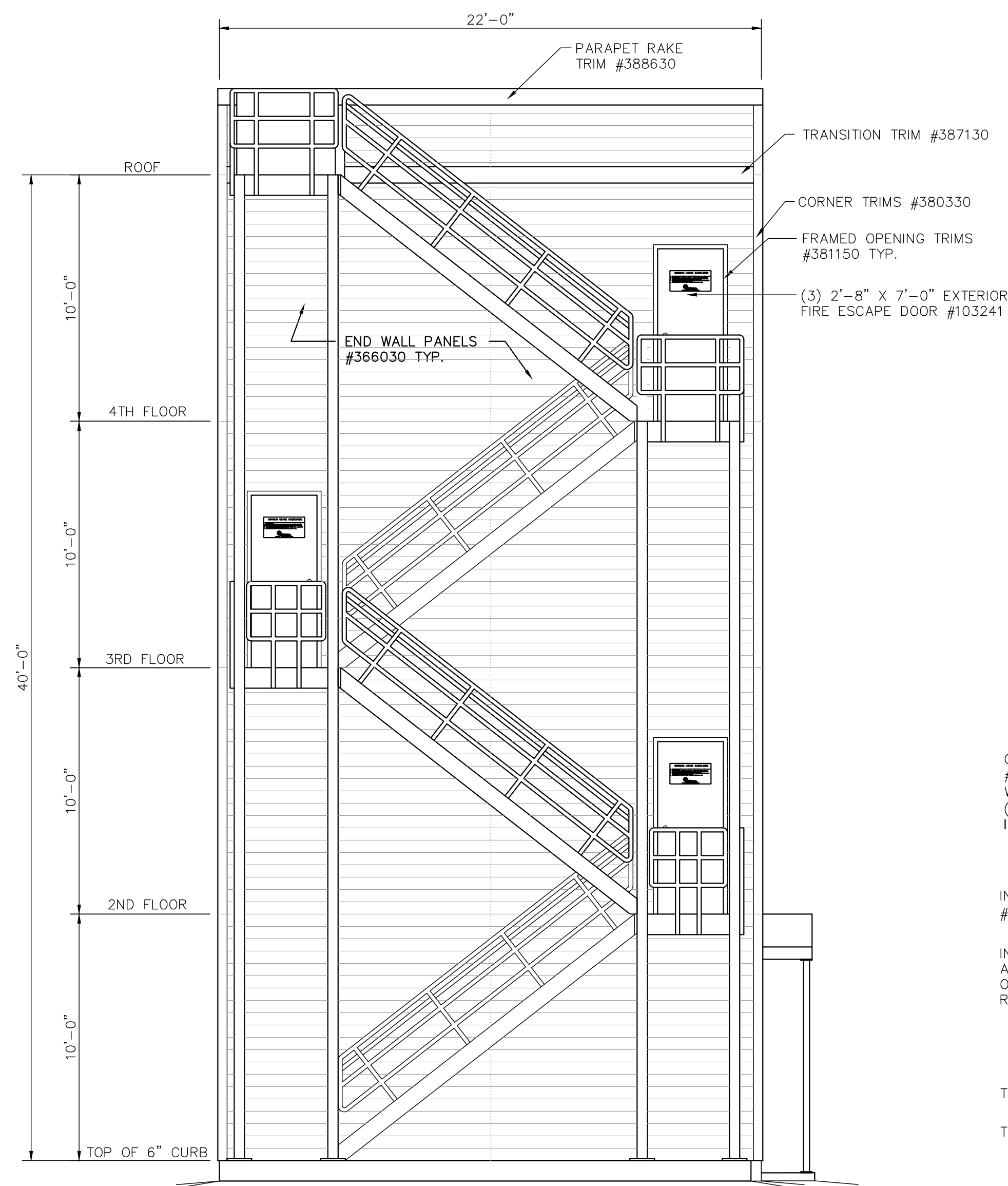
WALL PANEL SPLICE PLATE

scale: 1 1/2" = 1'-0"



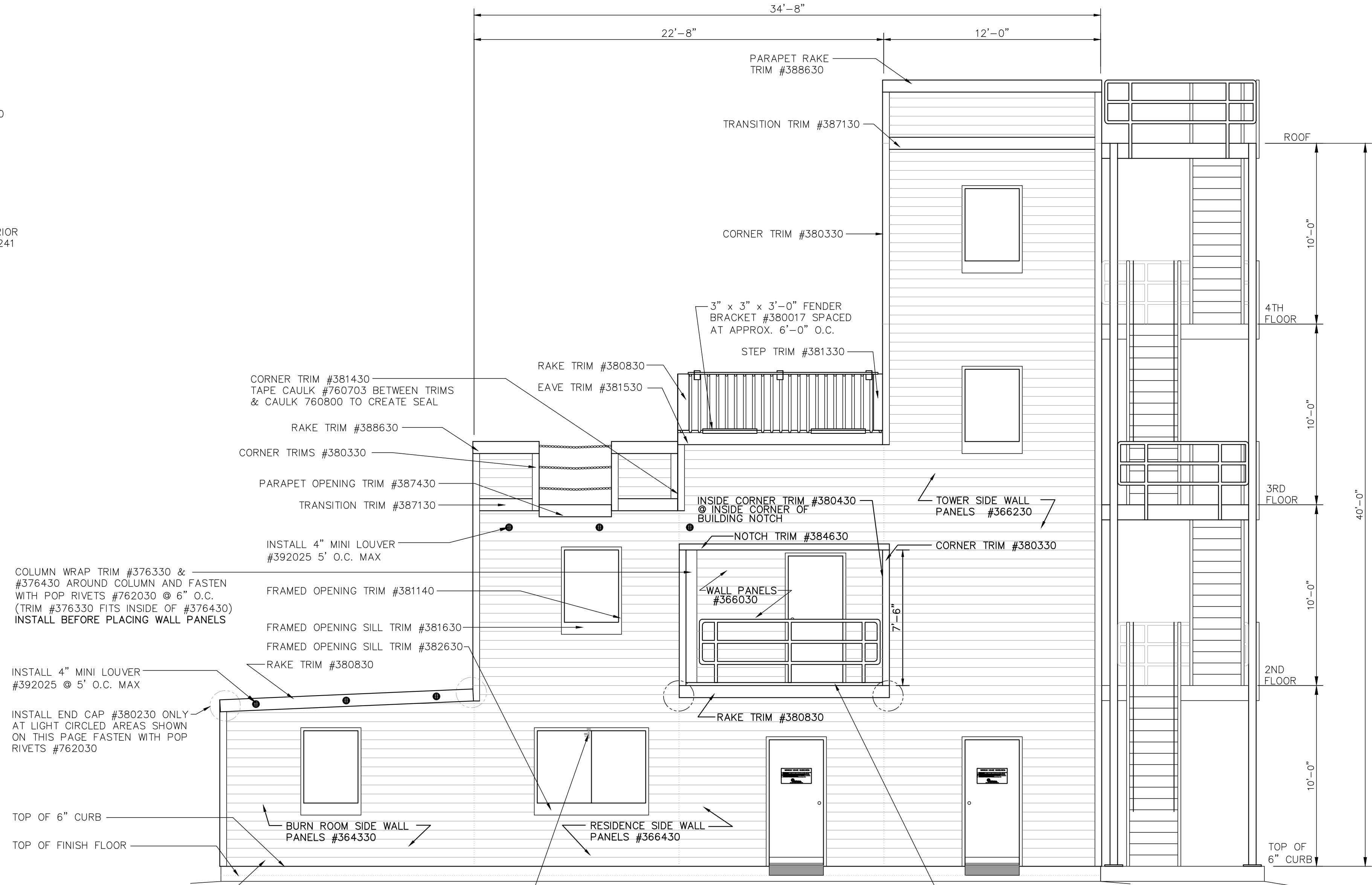
TYPICAL EXTERIOR CORNER TRIM DETAIL

scale: 1 1/2" = 1'-0"



SOUTH END ELEVATION

SCALE: 1/4" = 1'-0"



WEST SIDE ELEVATION

SCALE: 1/4" = 1'-0"

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STATE OF WISCONSIN
PROFESSIONAL ENGINEER
No. 56328
Exp. 8/5/2022

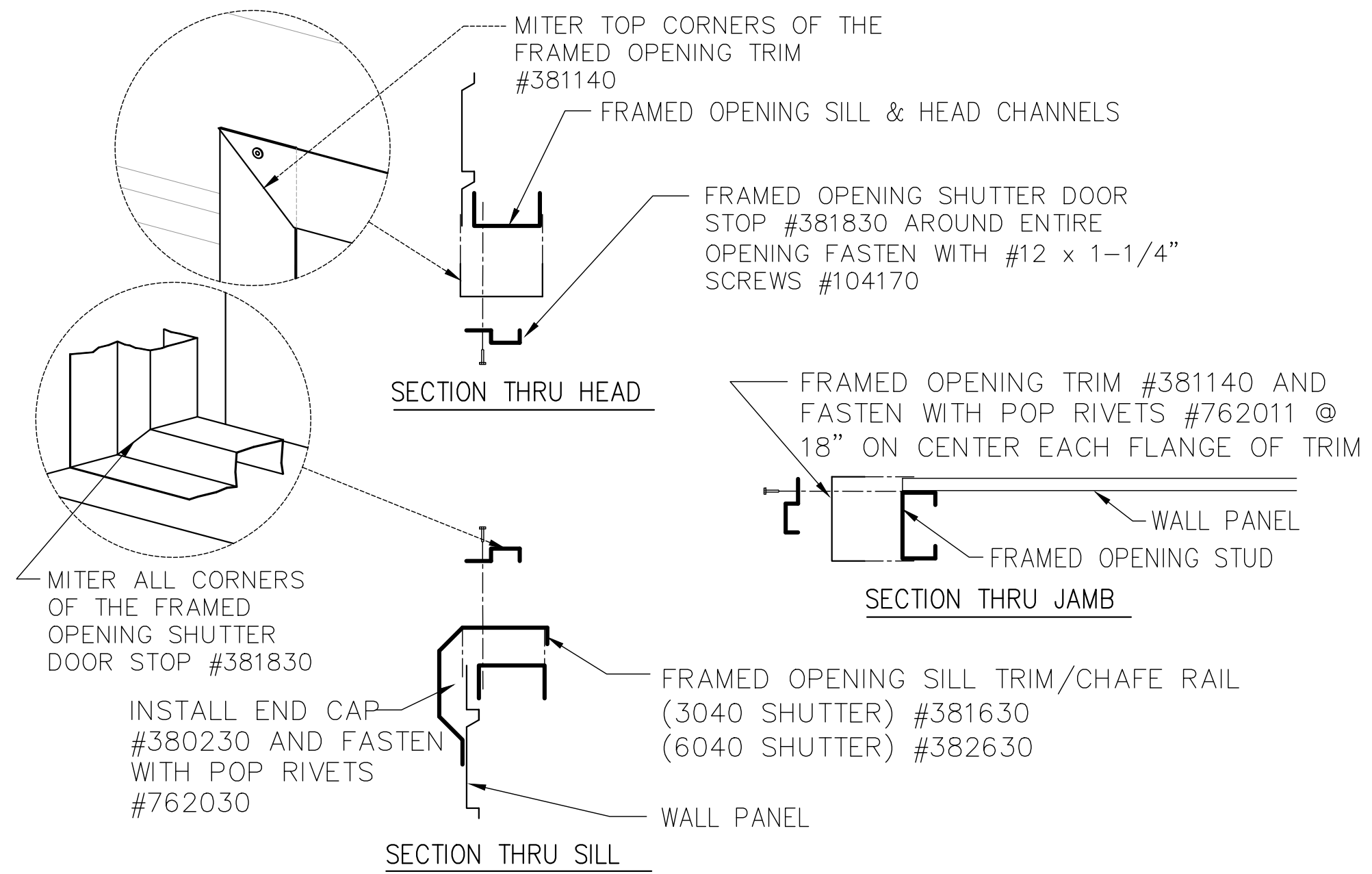
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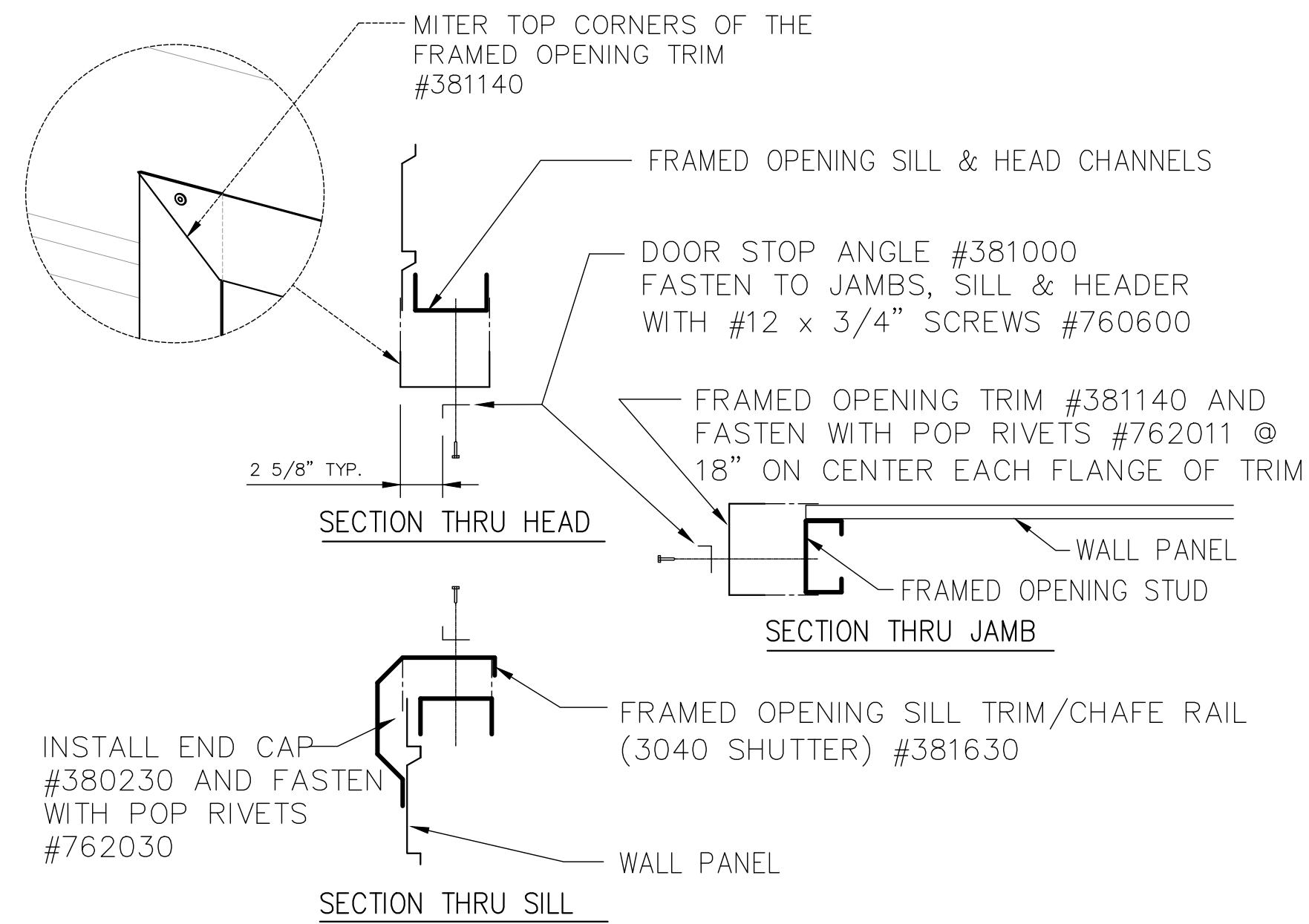
Job Description: **WESCO MODEL FF-4**
CUSTOM CRESTVIEW, FL
Sheet Title: ELEVATIONS

Date: DECEMBER 10, 2021
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Order No. FTE-796 / #244368
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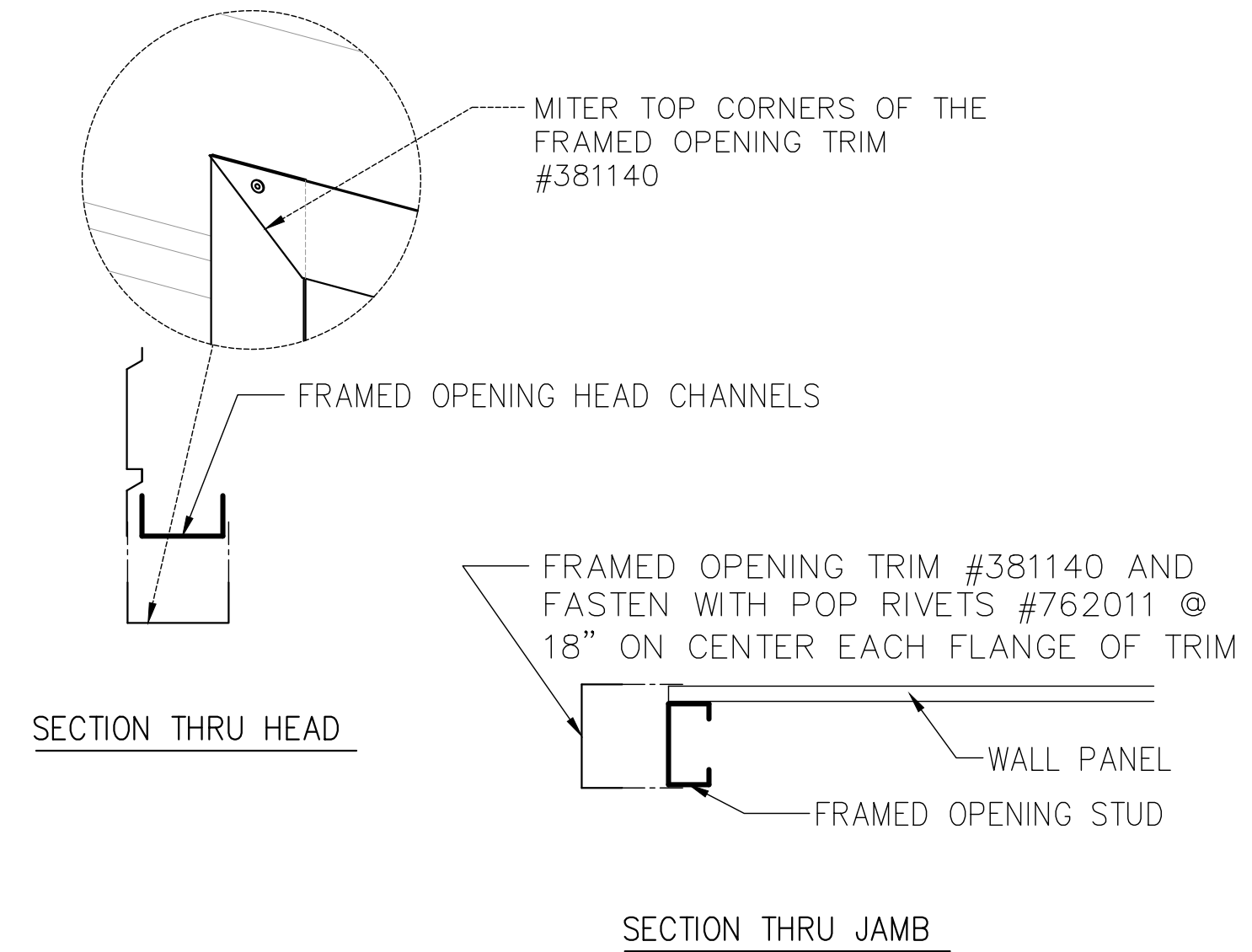
STANDARD SHUTTER TRIM DETAILS

scale: 1 1/2" = 1'-0"

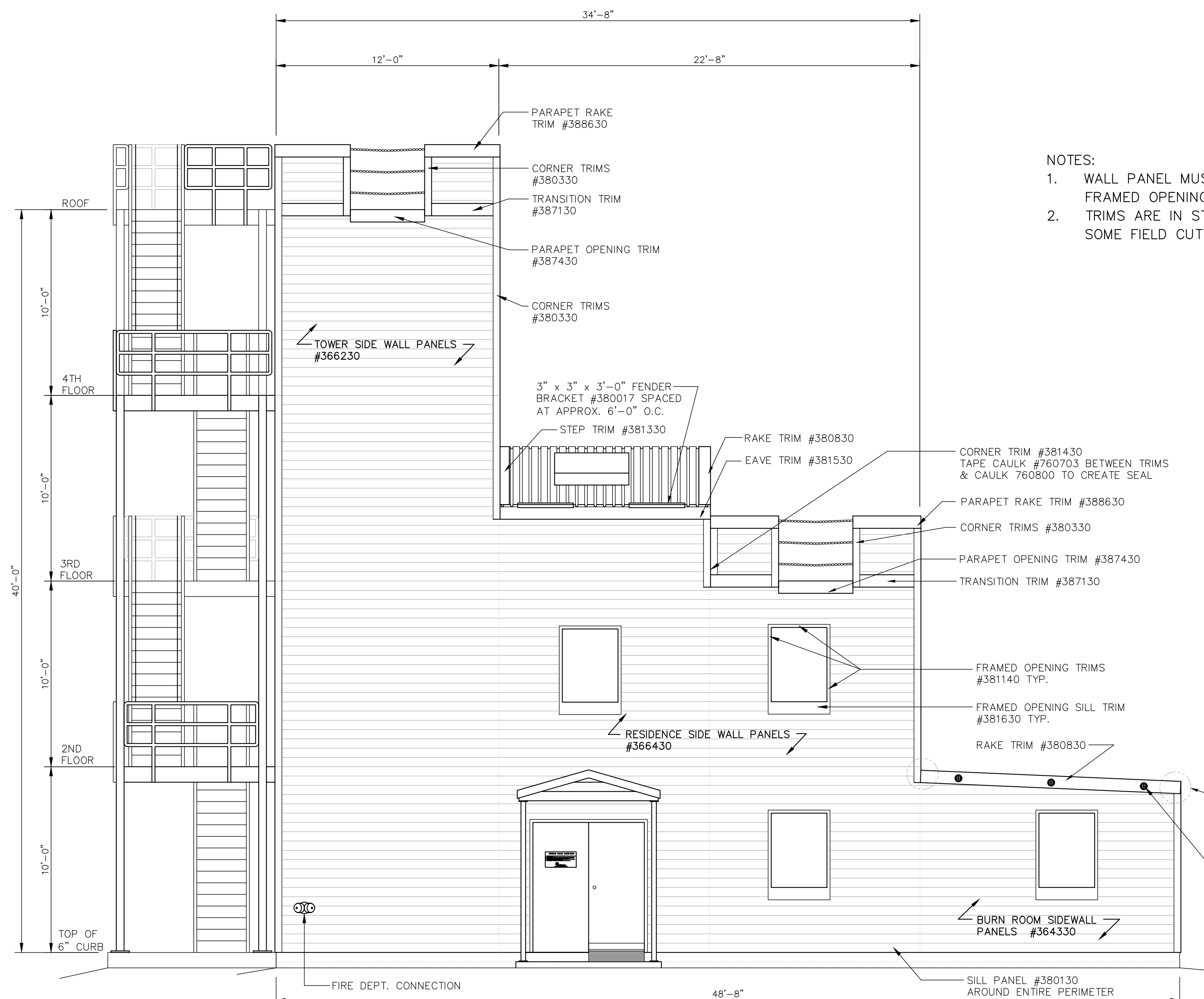


BURN ROOM SHUTTER TRIM DETAILS

SCALE: 1 1/2" = 1'-0"



TOWER SWING DOOR TRIM DETAILS

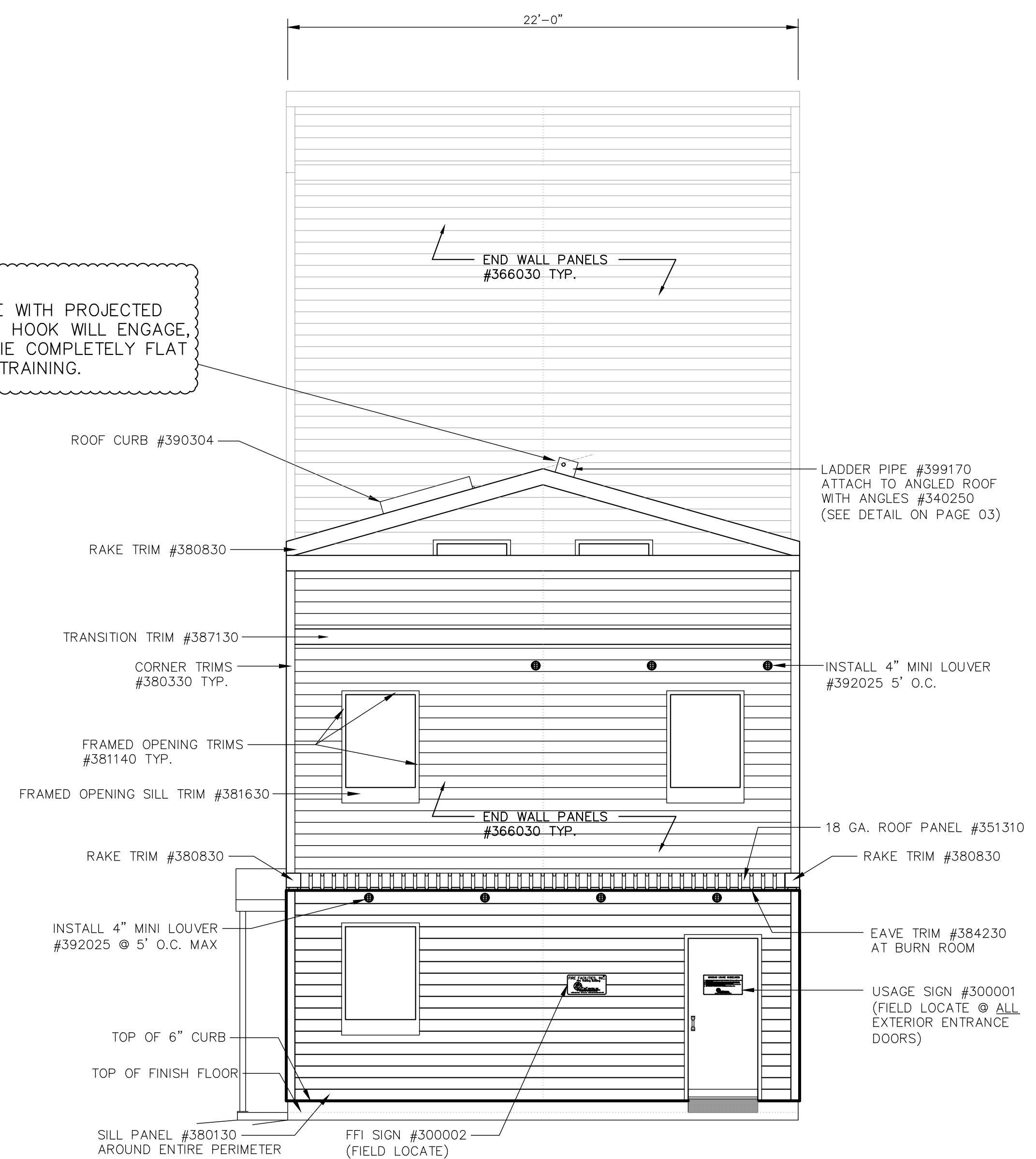


EAST SIDE ELEVATION

SCALE: 1/4" = 1'-0"

- NOTES:
1. WALL PANEL MUST BE FIELD CUT AROUND FRAMED OPENINGS
 2. TRIMS ARE IN STANDARD 10' LENGTHS SOME FIELD CUTTING OF TRIMS IS REQUIRED

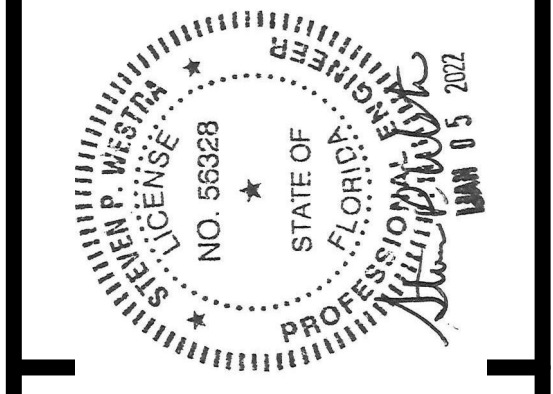
IMPORTANT NOTE:
ALIGN THE TOP OF THE PIPE WITH PROJECTED ROOF LINE SO THAT LADDER HOOK WILL ENGAGE, ALLOWING THE LADDER TO LIE COMPLETELY FLAT ON THE ROOF PANELS FOR TRAINING.



NORTH END ELEVATION

SCALE: 1/4" = 1'-0"

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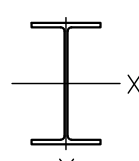


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Date:	DECEMBER 10, 2021
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COLUMN REACTIONS

COLUMN	HORIZONTAL (ANY DIRECTION)	VERTICAL (DOWNWARD)	VERTICAL (UPLIFT)
A-1, A-2	15 KIPS	91 KIPS	63 KIPS
B-1, B-2	8 KIPS	91 KIPS	7 KIPS
A-3, B-3	5 KIPS	66 KIPS	6 KIPS
A-4, B-4	2 KIPS	29 KIPS	3 KIPS

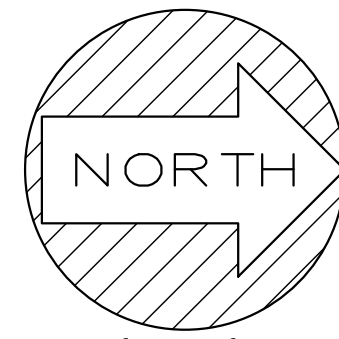
DESIGN REACTIONS SHOWN: 1. PER FBC 2020 AND LRFD LOAD COMBINATIONS
2. WIND CRITERIA: 128 MPH, EXP C; RISK CAT. I
3. SEISMIC CRITERIA: SDC A; SITE CLASS D

1. ALL COLUMNS, FIRE ESCAPE PADS AND STUD WALLS ARE SET AT TOP OF CURB (FINISHED FLOOR IS 6" BELOW TOP OF CURB).
2. ALL PADS OUTSIDE OF EXTERIOR DOORS SHOULD BE SET AT FINISHED FLOOR (IF APPLICABLE).
3. ALL DOOR OPENINGS THAT ARE DIMENSIONED SHOULD BE HELD EXACT (DOOR LOCATIONS NOT DIMENSIONED CAN BE FIELD LOCATED).

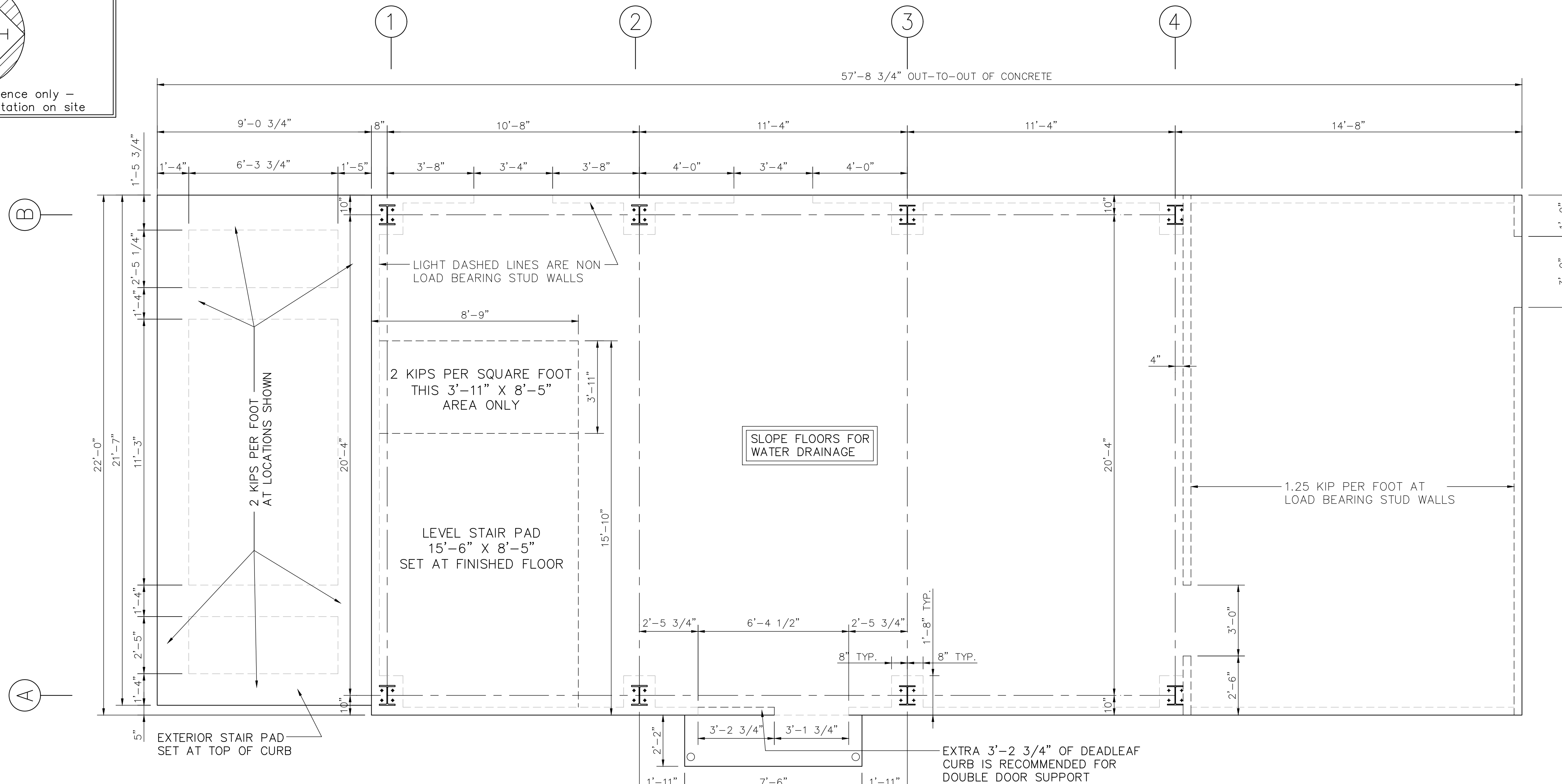
NOTE:

EXCLUDES ANY AND ALL PREPARATIONS INVOLVED IN PROVIDING SUITABLE CONCRETE PADS AND/OR FOUNDATIONS

ALSO EXCLUDES ANY ANCHORS REQUIRED TO SECURE THE BUILDING TO THE FOUNDATION.

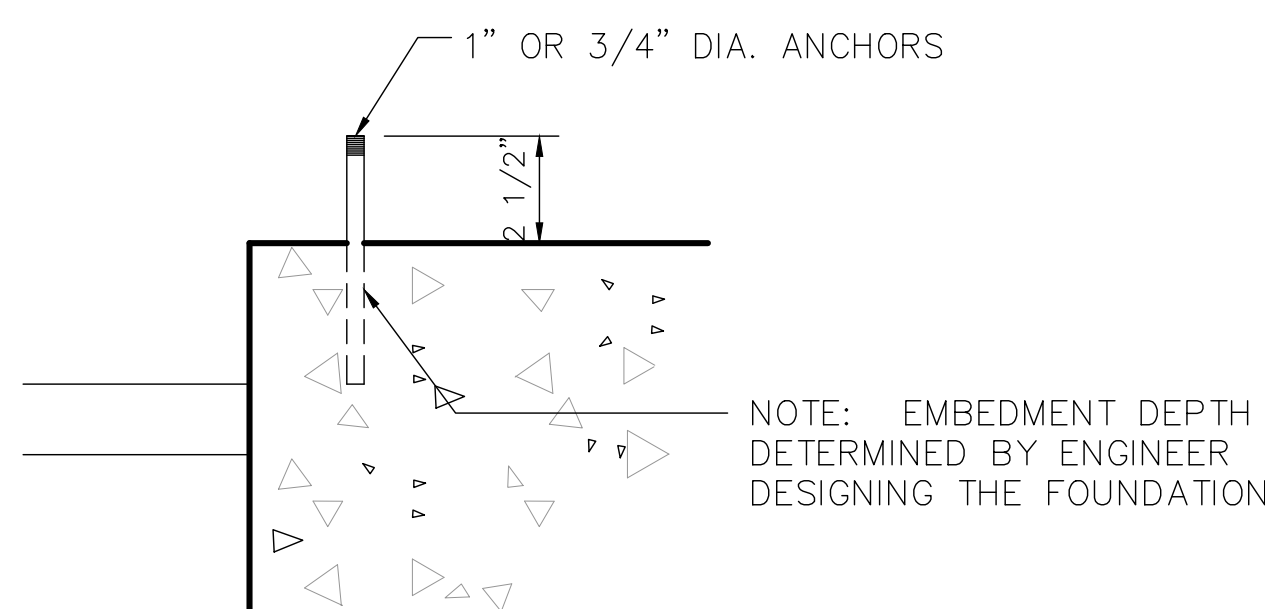


North arrow for reference only – coordinate actual orientation on site

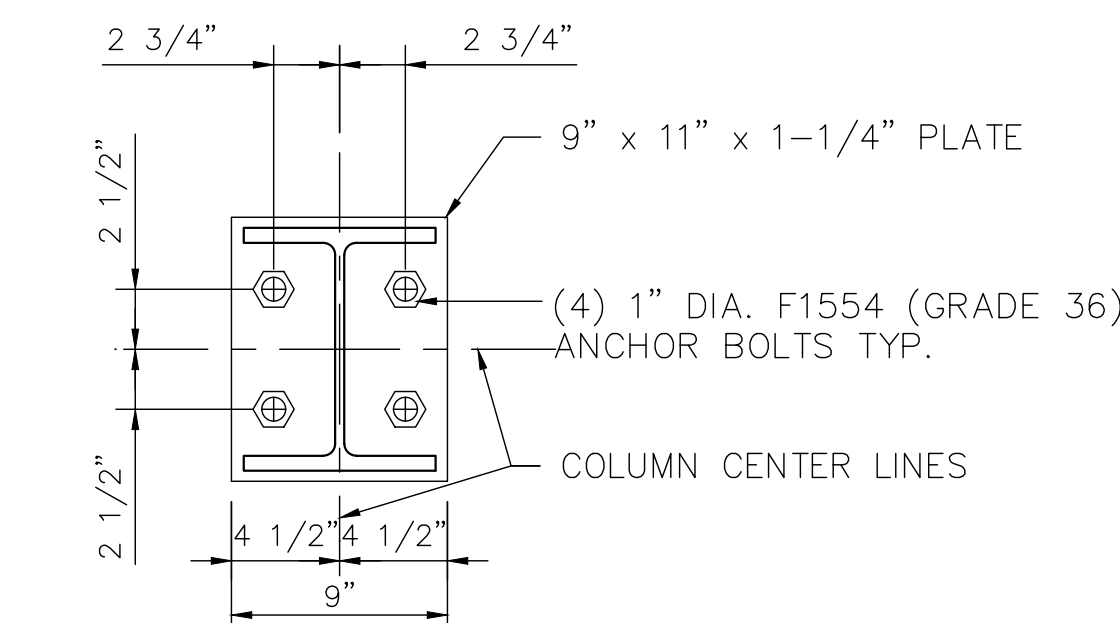


ANCHOR BOLT PLAN

SCALE: 3/8" = 1'-0"



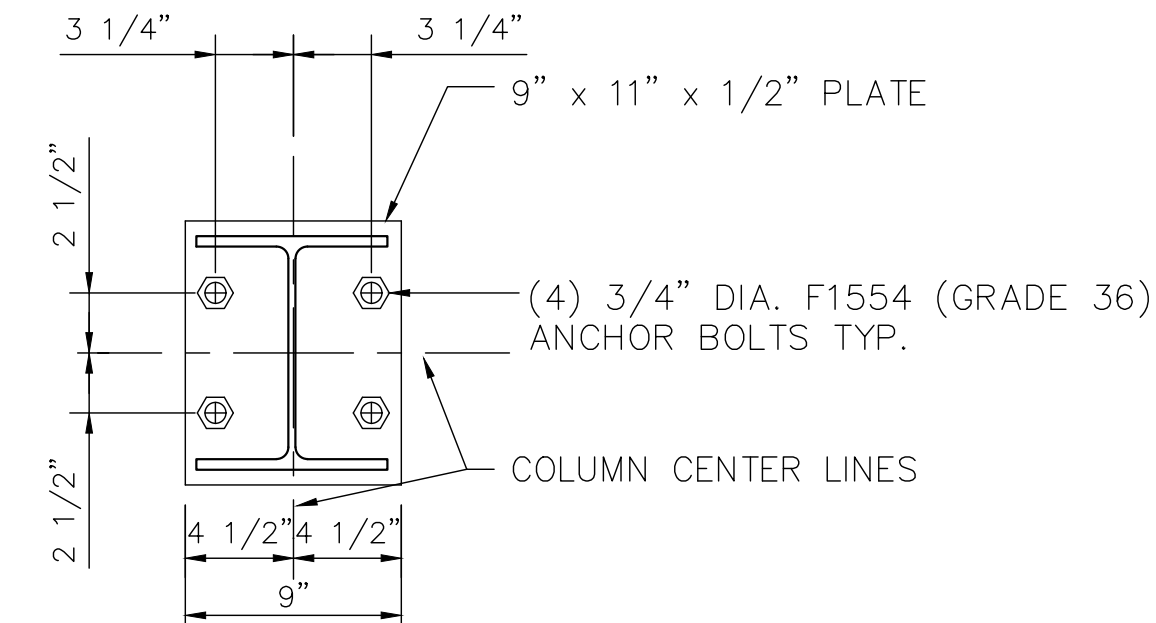
ANCHOR BOLT PROJECTION DETAIL



NOTE: SEE ANCHOR BOLT PLAN FOR COLUMN ORIENTATION AND CENTER LINE LOCATIONS (A1,A2,B1, & B2).

TOWER COLUMN ANCHOR BOLT DETAIL

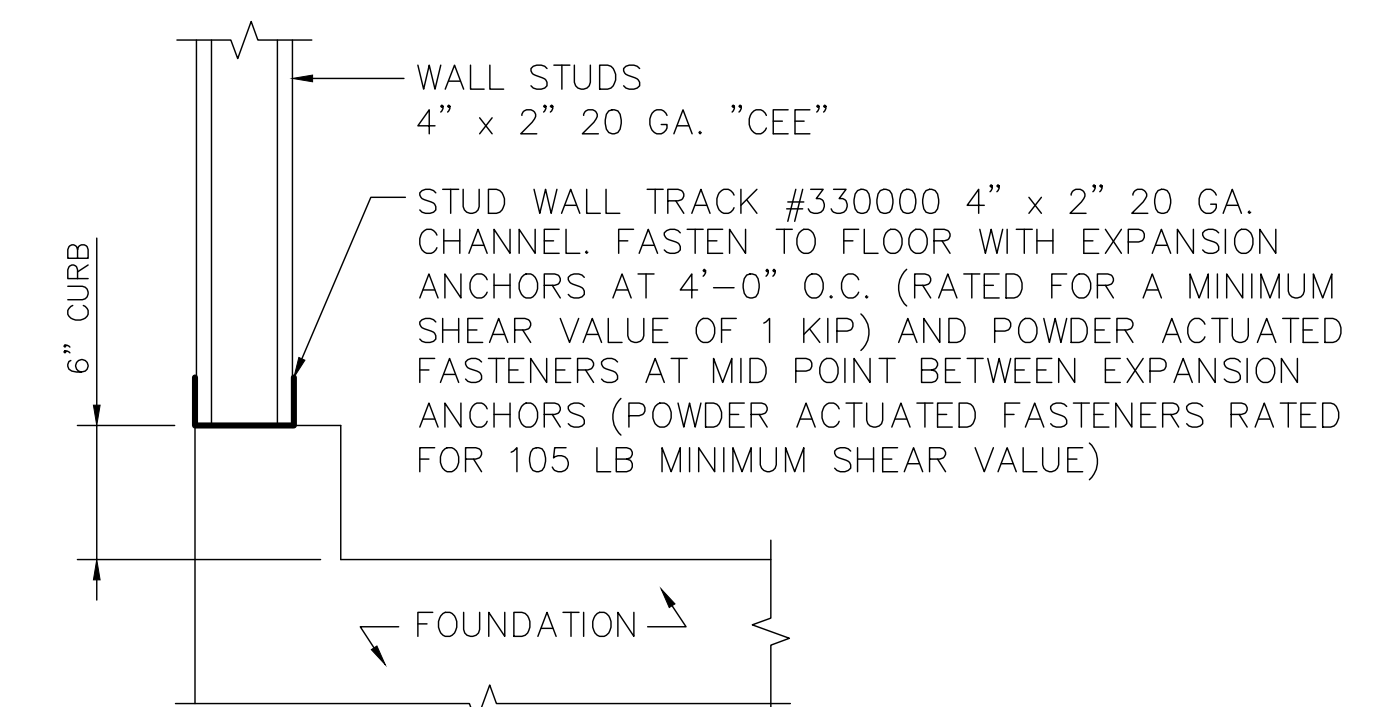
scale: 1 1/2" = 1'-0"



NOTE: SEE ANCHOR BOLT PLAN FOR COLUMN ORIENTATION AND CENTER LINE LOCATIONS (A3,A4,B3, & B4).

RESIDENCE COLUMN ANCHOR BOLT DETAIL

scale: 1 1/2" = 1'-0"

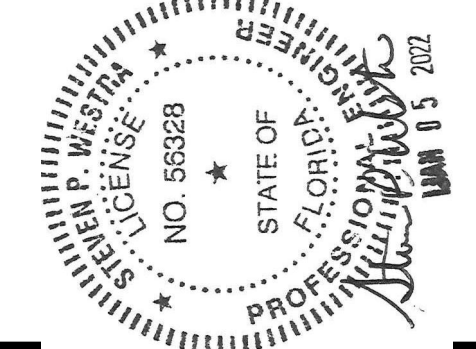


TYPICAL STUD WALL BASE DETAIL

scale: 1 1/2" = 1'-0"

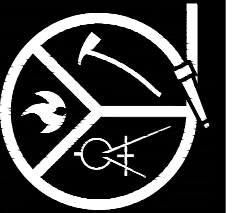
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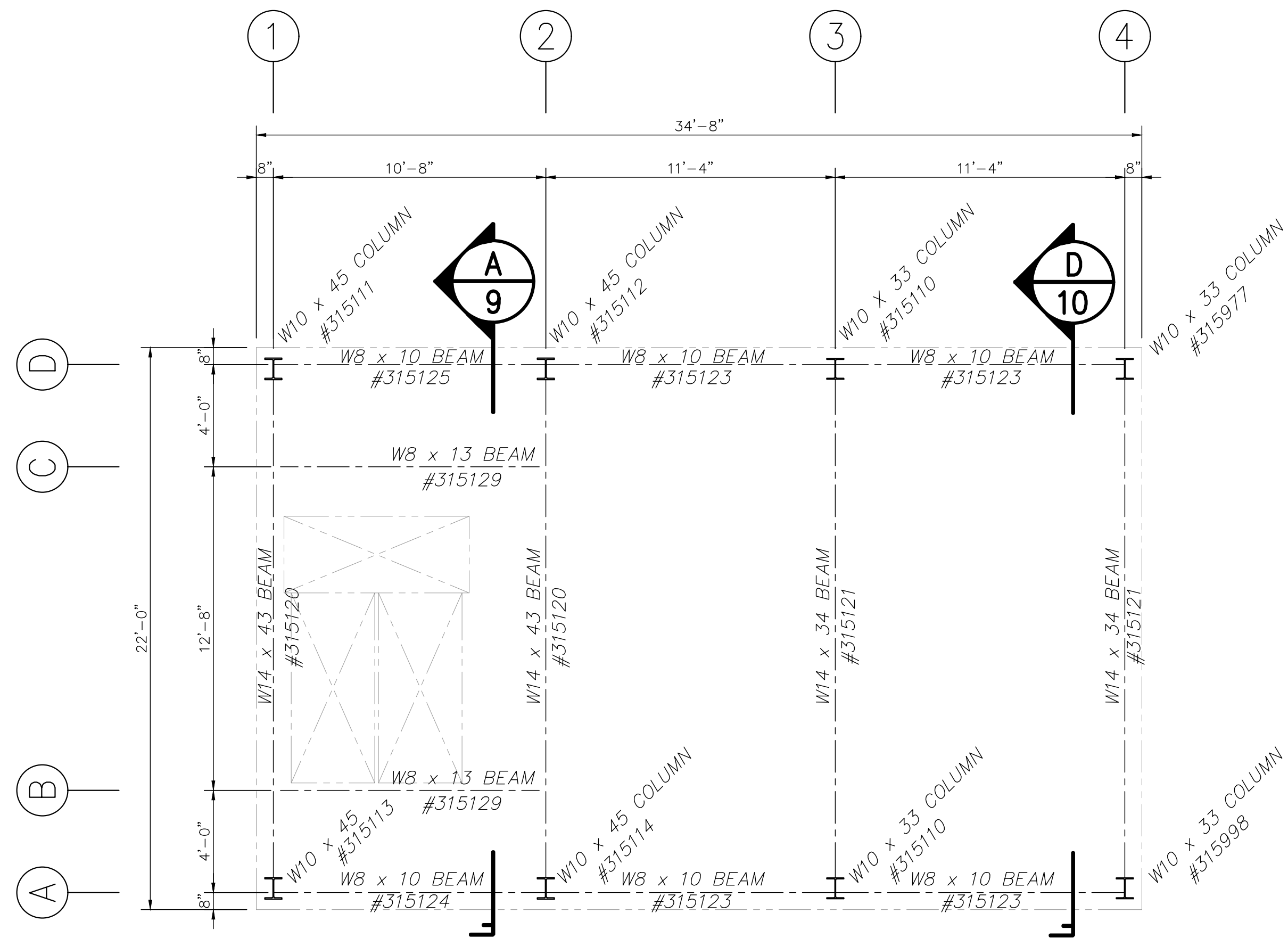
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TOLL FREE: (800) 929-3726 TOLL FREE FAX: (866) 639-7012
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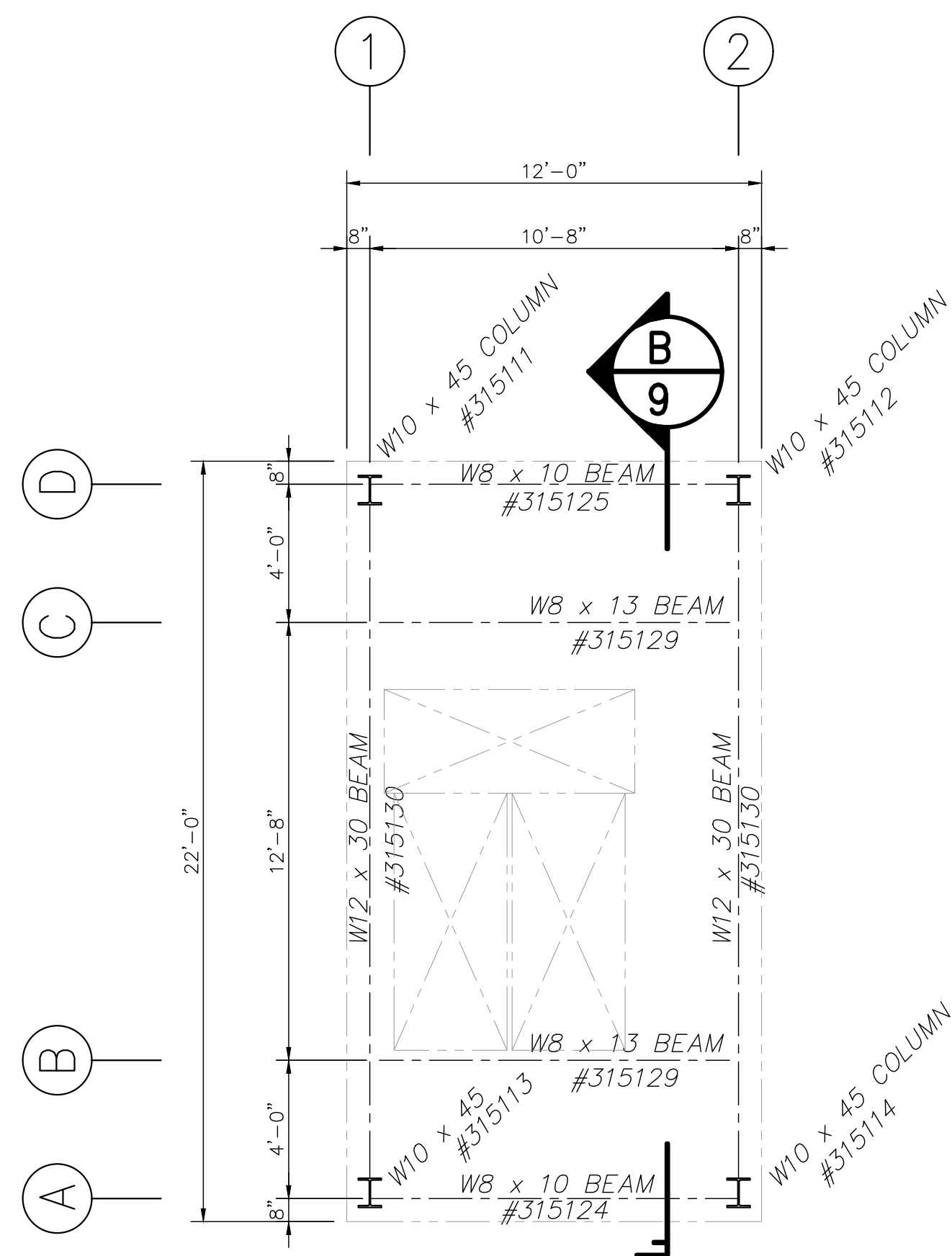
WESCO MODEL FF-4
CUSTOM
CRESTVIEW, FL

Job Description: ANCHOR BOLT PLAN
Date: DECEMBER 10, 2021
Drawn by: WDM
Checked by: SPW
Scale: SHOWN
Order No. FTE-796 / #244368
Sheet No.



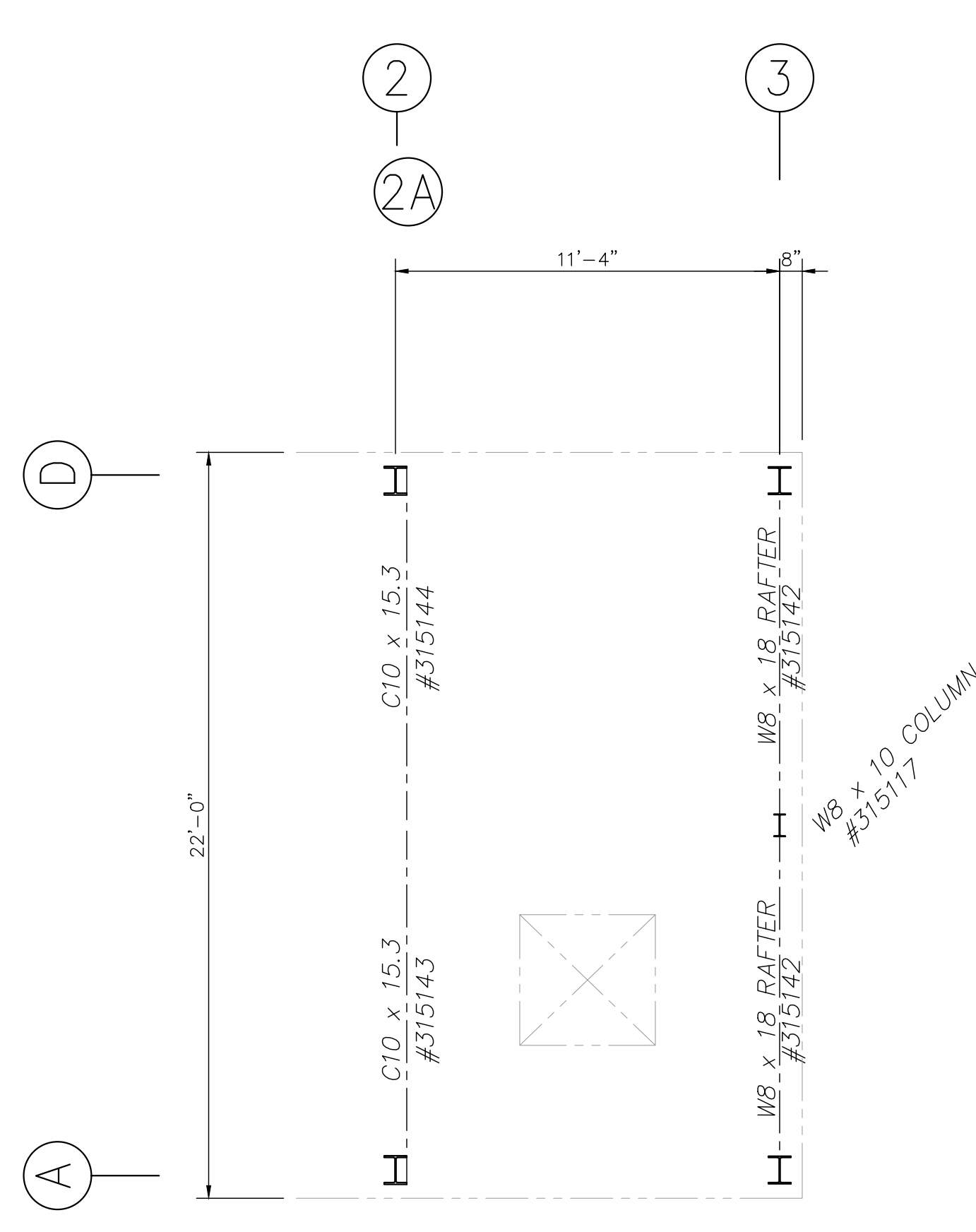
SECOND FLOOR STRUCTURAL FRAMING PLAN

SCALE: 1/4"=1'-0"



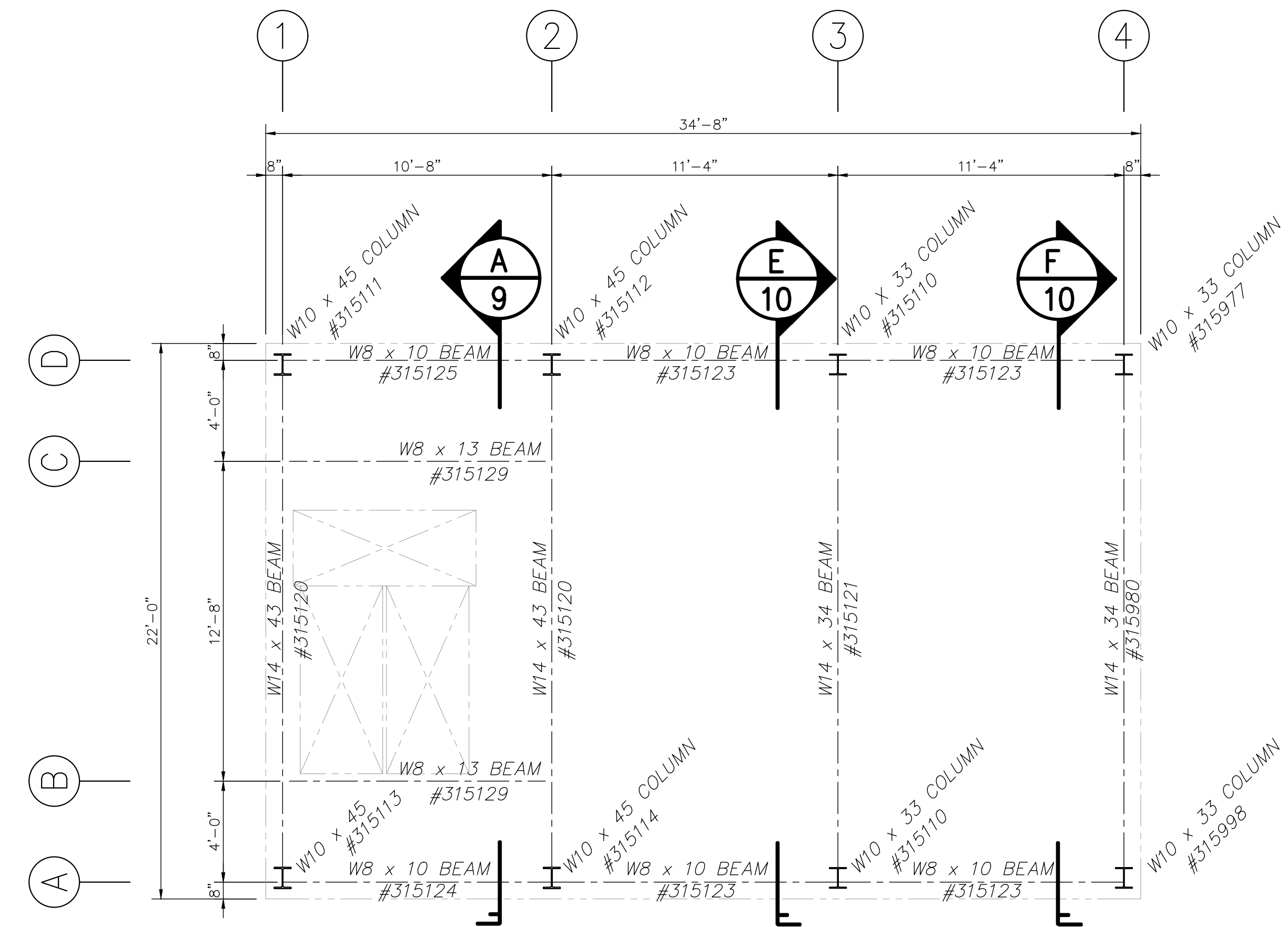
FOURTH FLOOR STRUCTURAL FRAMING PLAN

SCALE: 1/4"=1'-0"



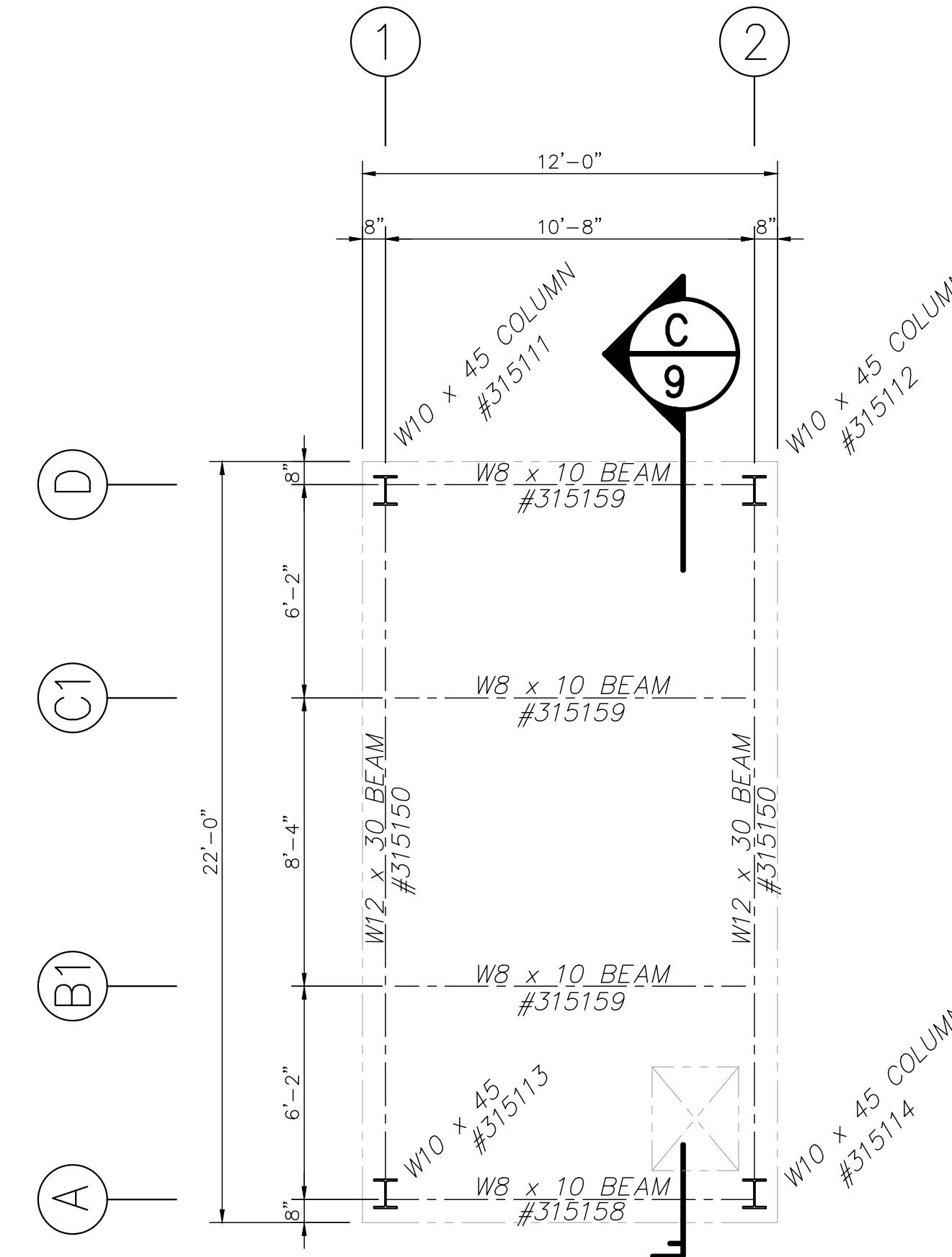
RESIDENCE ROOF STRUCTURAL FRAMING PLAN

SCALE: 1/4"=1'-0"



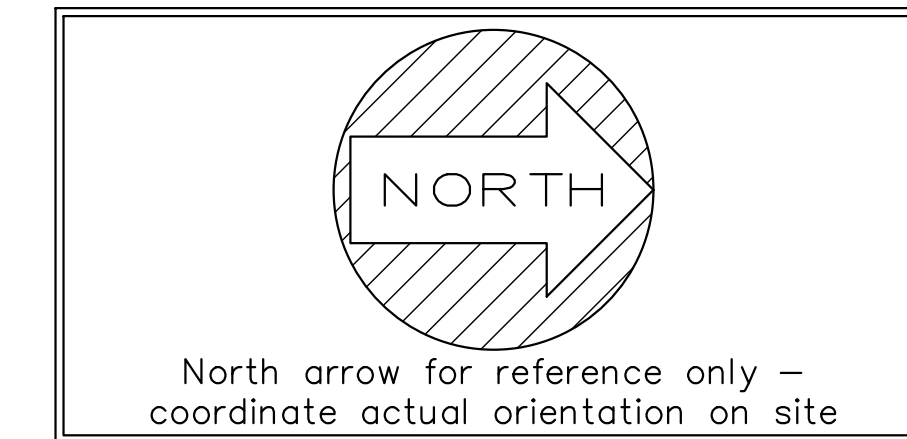
THIRD FLOOR/ATTIC STRUCTURAL FRAMING PLAN

SCALE: 1/4"=1'-0"



TOWER ROOF STRUCTURAL FRAMING PLAN

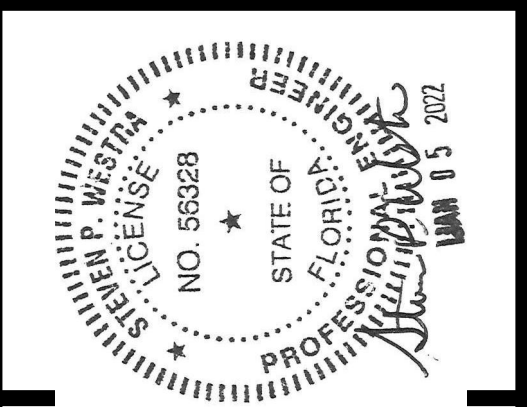
SCALE: 1/4"=1'-0"



NOTE: TEMPORARY SUPPORT OF THIS STRUCTURAL FRAME IS REQUIRED AND IS THE SOLE RESPONSIBILITY OF THE ERECTOR. THIS TEMPORARY SUPPORT SHOULD NOT BE REMOVED UNTIL ALL OF THE FLOOR AND WALL SYSTEMS ARE IN PLACE.

NOTE: THIS STRUCTURAL FRAME IS DESIGNED WITH ALL SHEAR/BEARING CONNECTIONS (NOT SLIP-CRITICAL) AND ALL JOINTS ARE OF THE SNUG-TIGHTENED TYPE. COMPACTING THE JOINT TO THE SNUG-TIGHTENED CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

REVISIONS	by



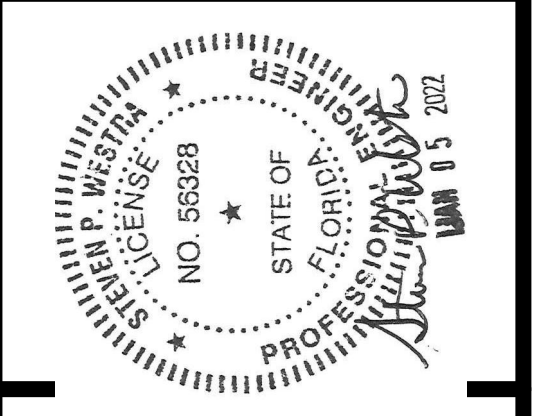
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	STRUCTURAL FRAMING PLAN

REVISIONS	by

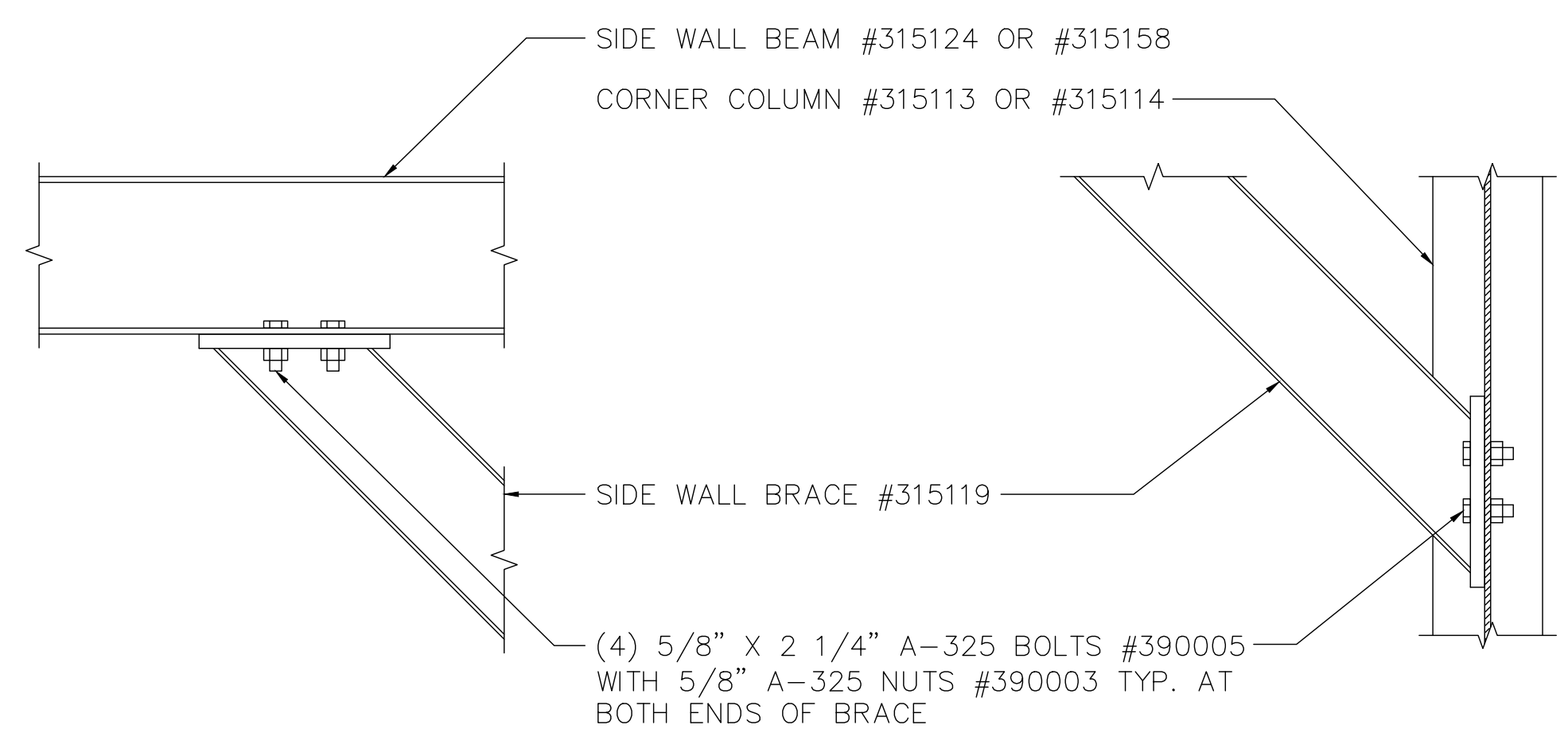


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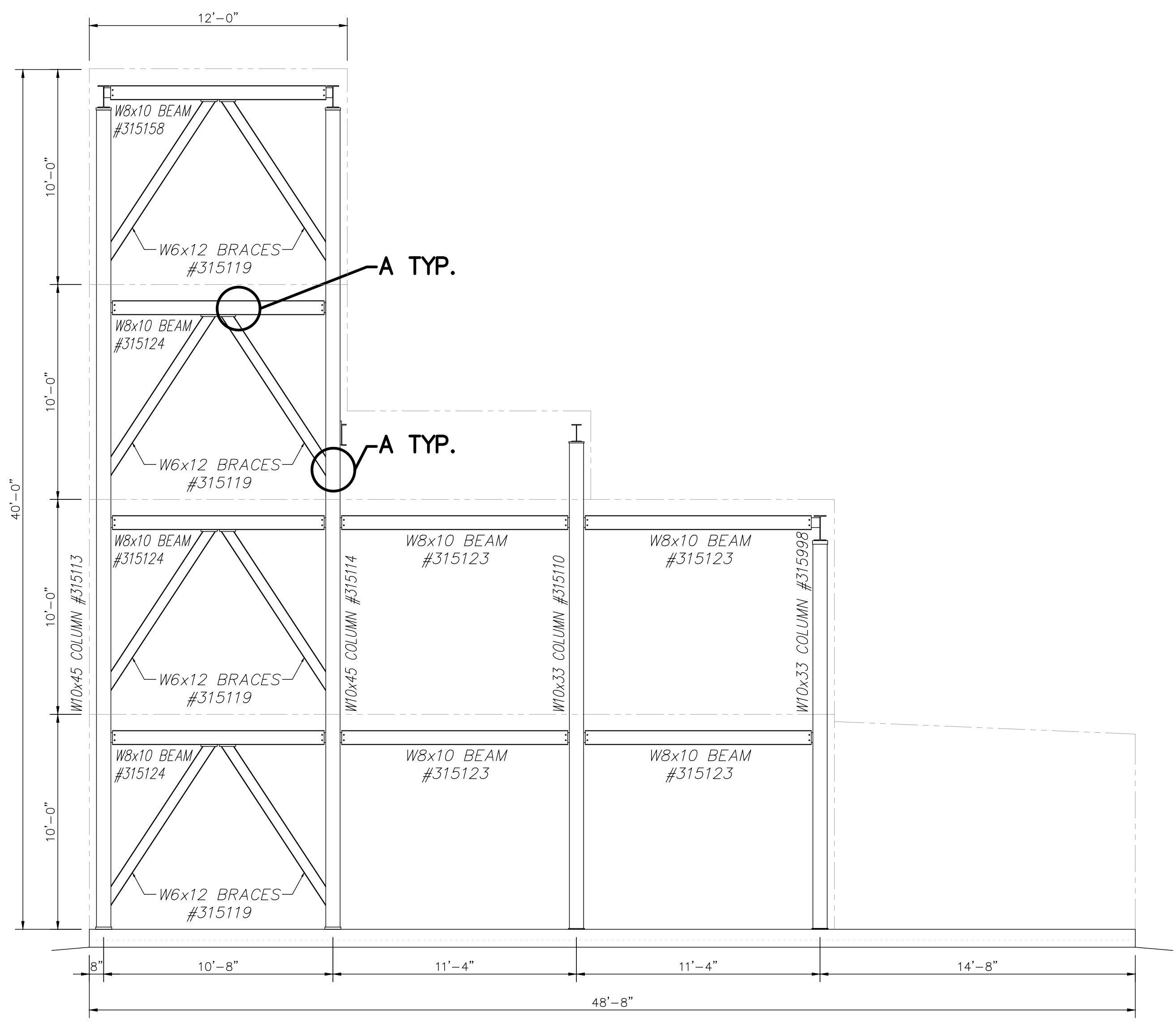
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	

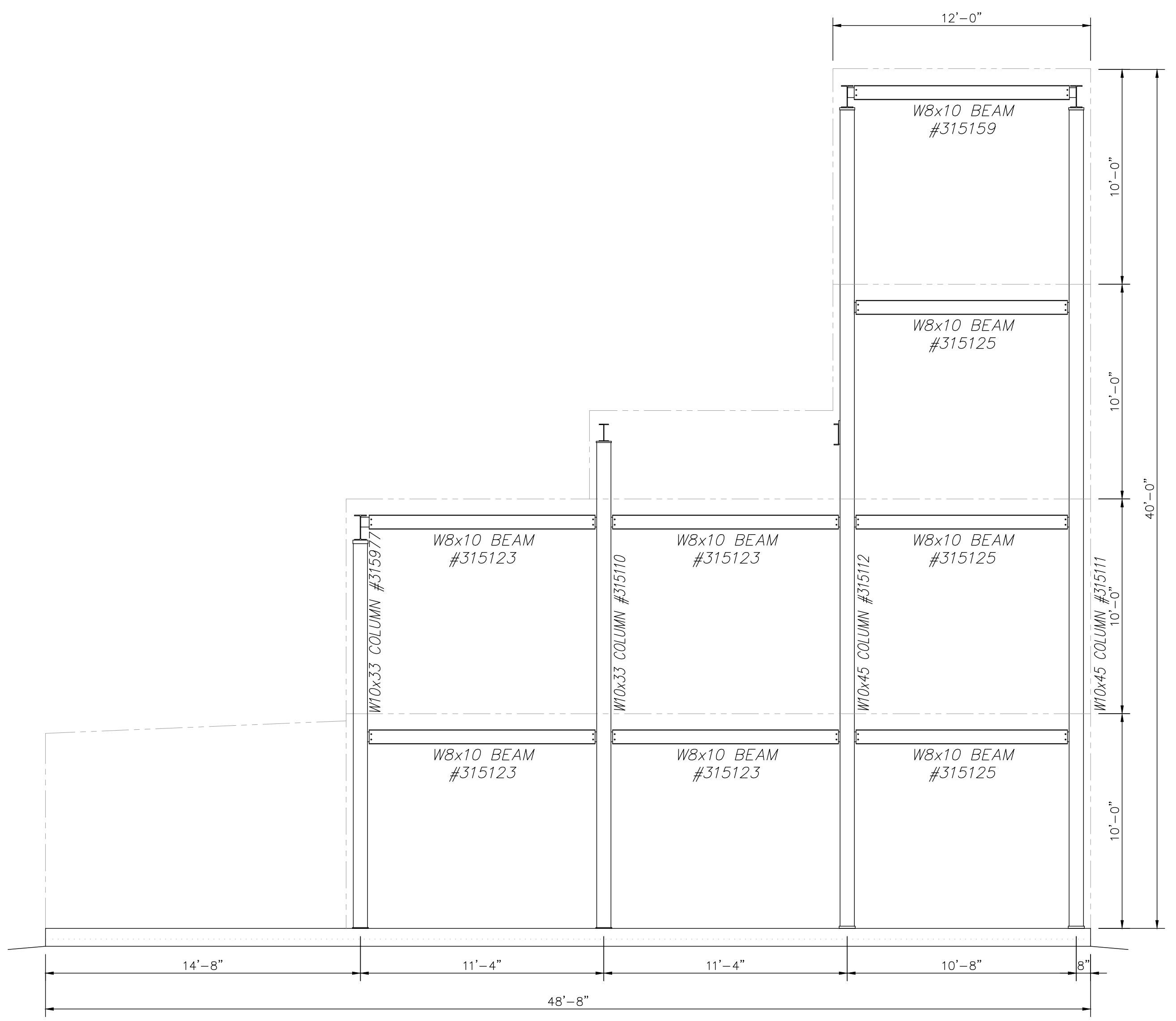


"A" TYPICAL SIDE WALL BRACE CONNECTION DETAILS
scale: 1 1/2" = 1'-0"



EAST SIDE WALL STRUCTURAL FRAMING ELEVATION

SCALE: 1/4" = 1'-0"



WEST SIDE WALL STRUCTURAL FRAMING ELEVATION

SCALE: 1/4" = 1'-0"

REVISIONS	by

Engineer: Steven P. Westra
 Address: 314 Wilburn Road
 800-929-3726
 Florida License #: FE 56328

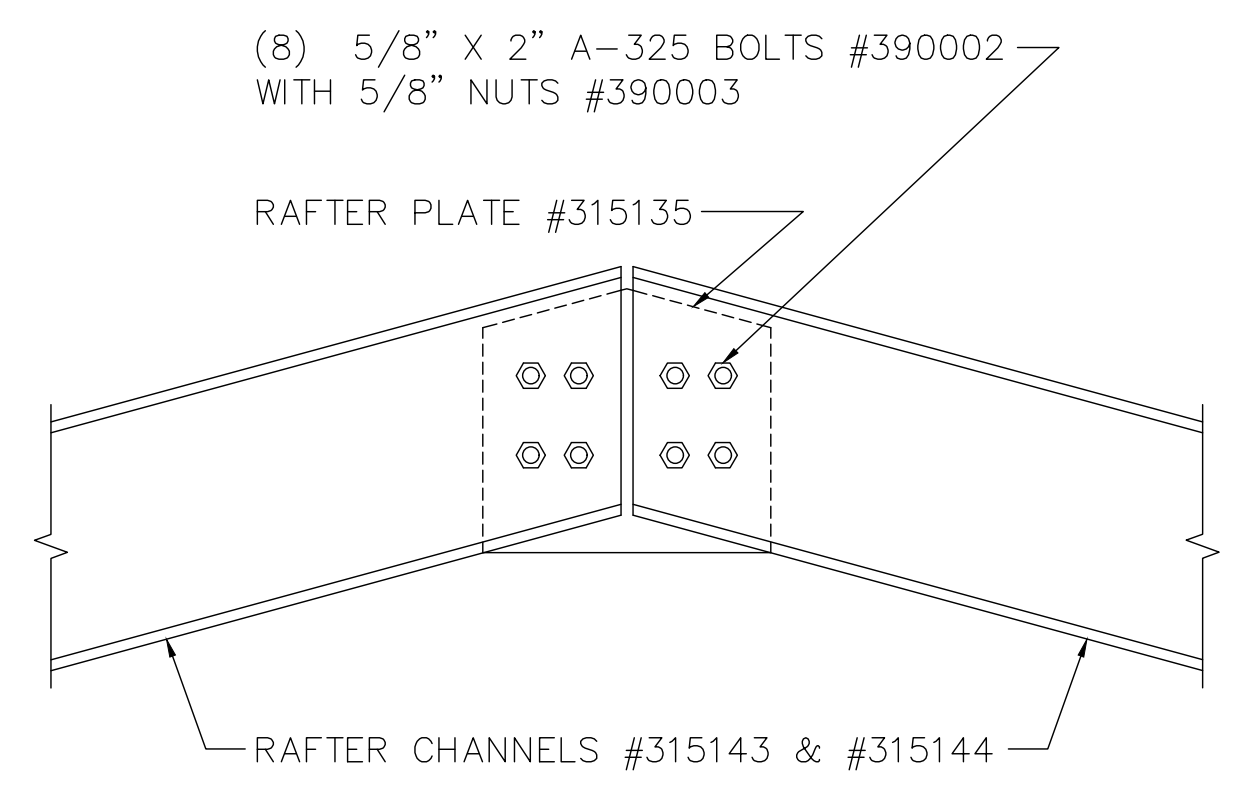
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FIRE FACILITIES
 STEEL FIRE TRAINING TOWERS

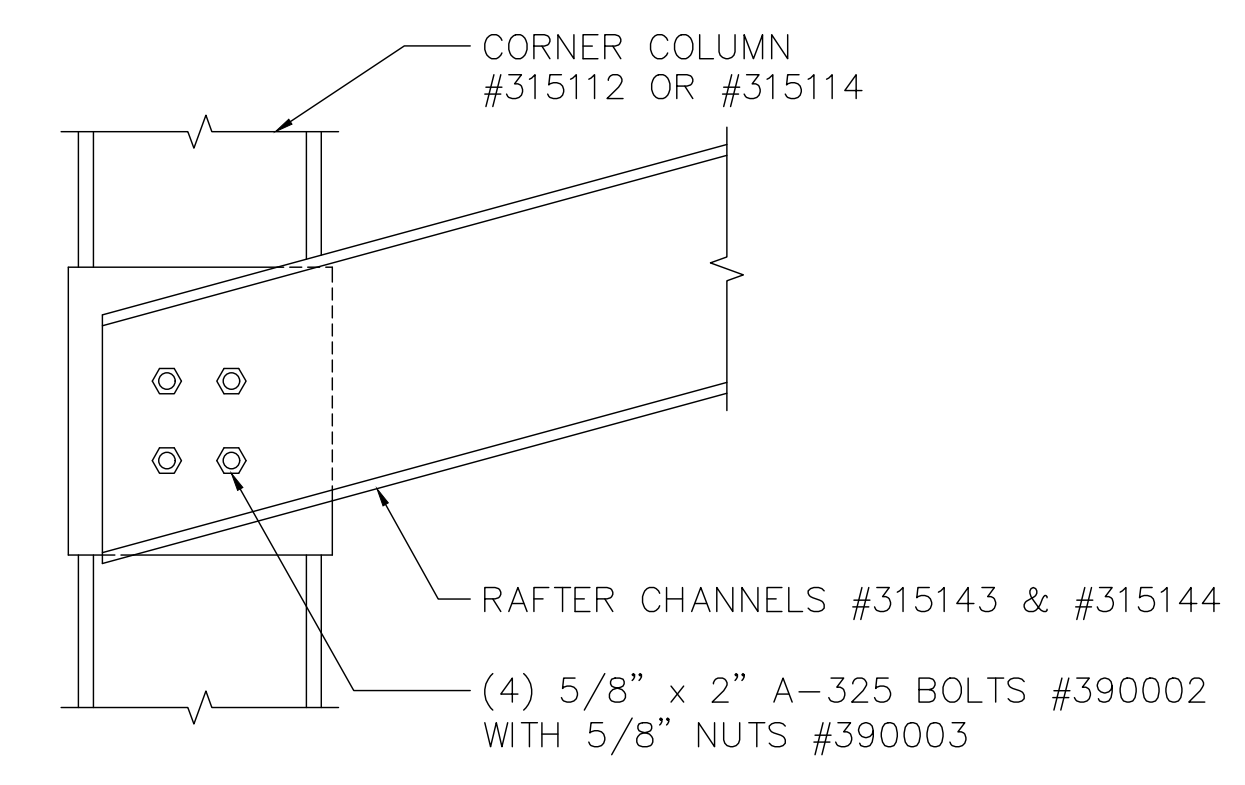
FIRE FACILITIES, INC.
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 WWW.FIREFACILITIES.COM; INFO@FIREFACILITIES.COM

Job Description: **WESCO MODEL FF-4**
 CUSTOM
 CRESTVIEW, FL

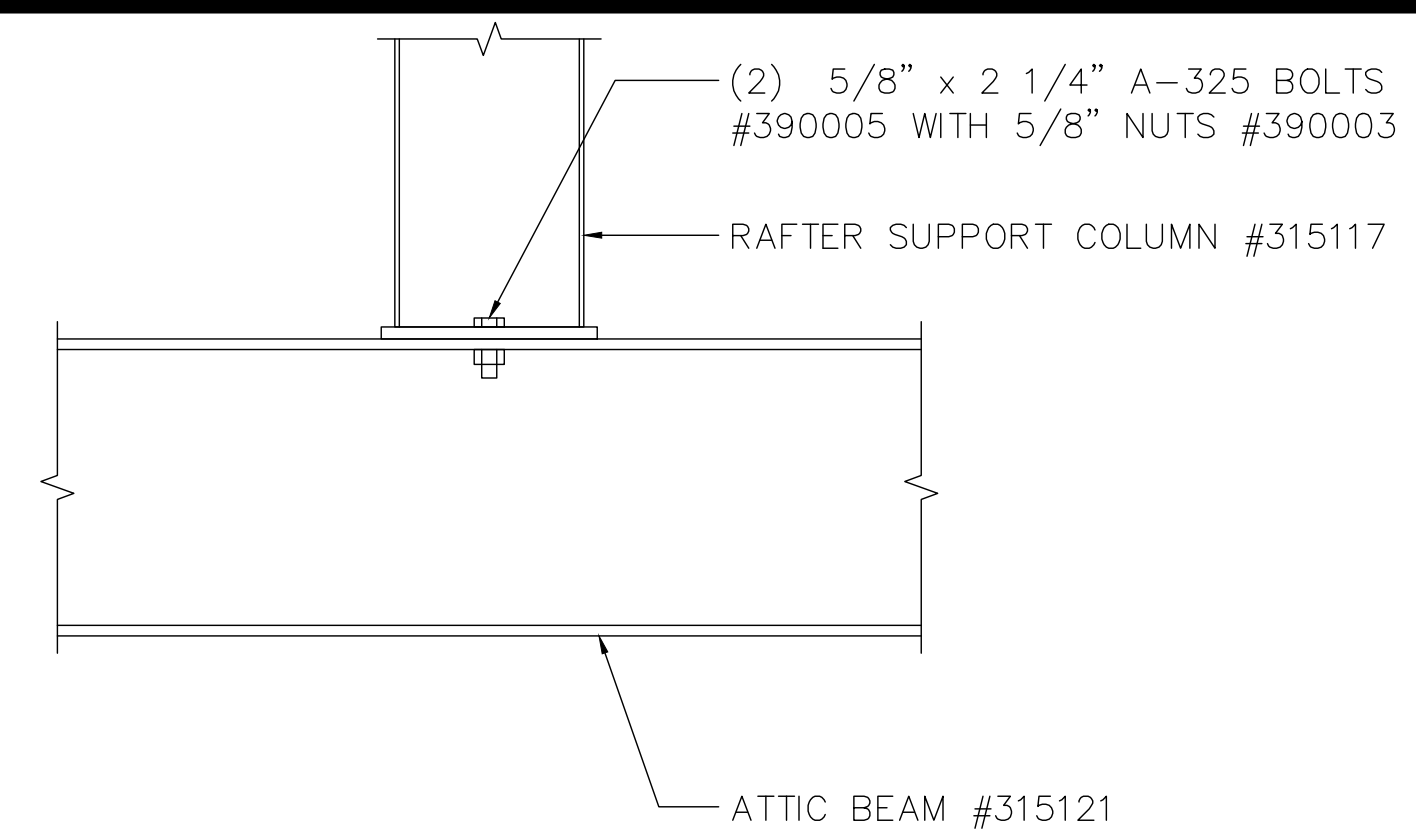
Date: DECEMBER 10, 2021
 Drawn by: WDM
 Checked by: SPW
 Scale: SHOWN
 Order No. FTE-796 / #244368
 Sheet No. STRUCTURAL ELEVATIONS CONT.



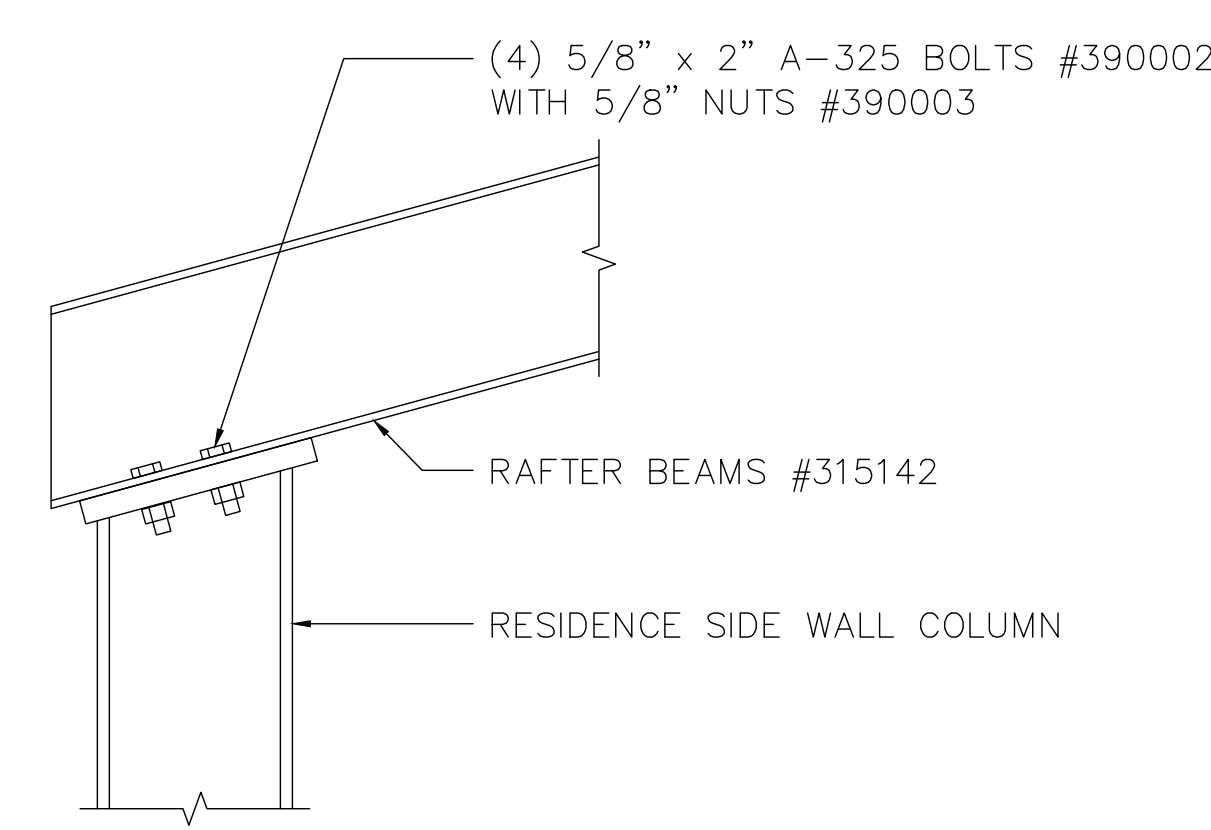
"B" Rafter Channel Ridge Connection



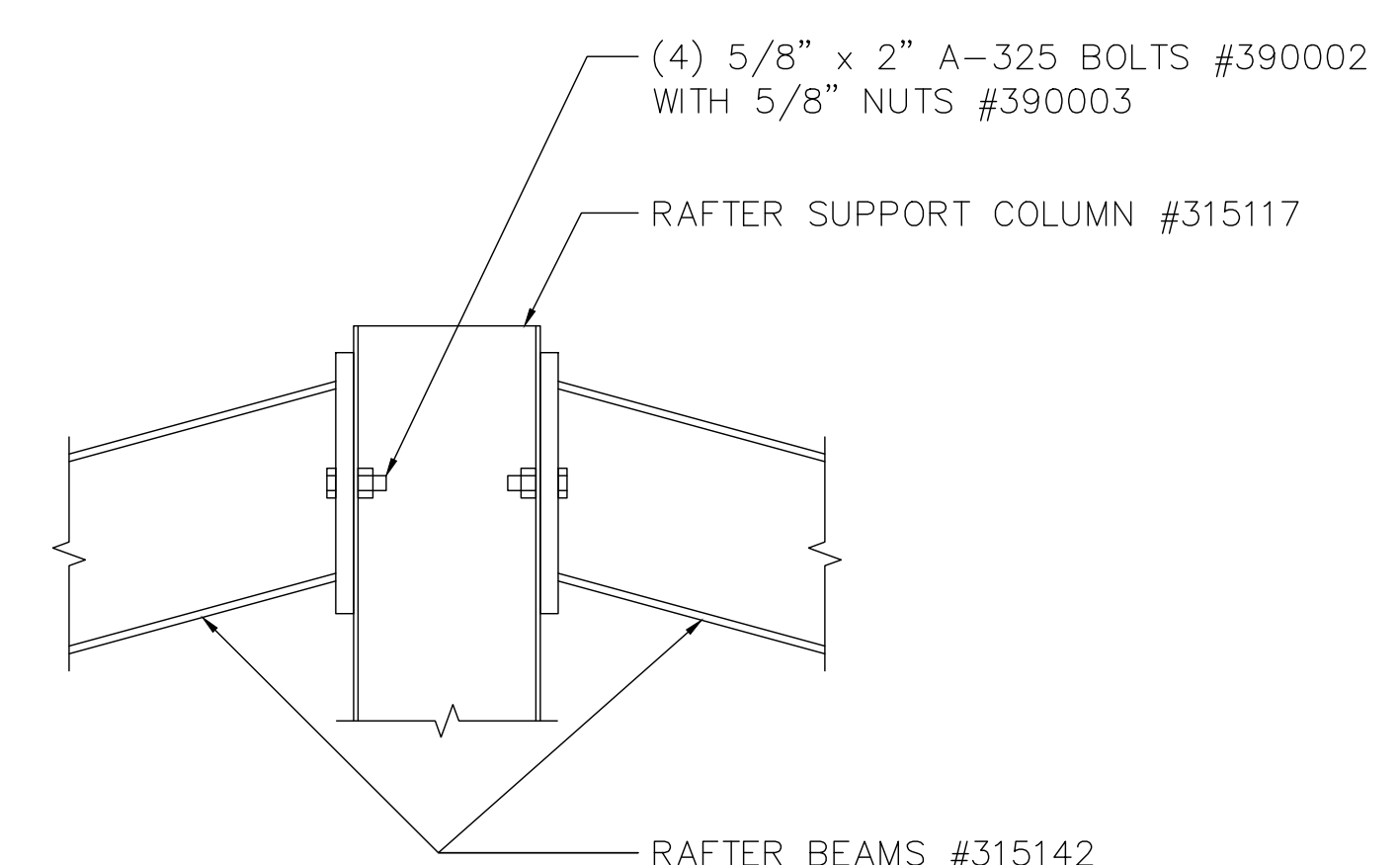
"C" Rafter Channel Eave Connection



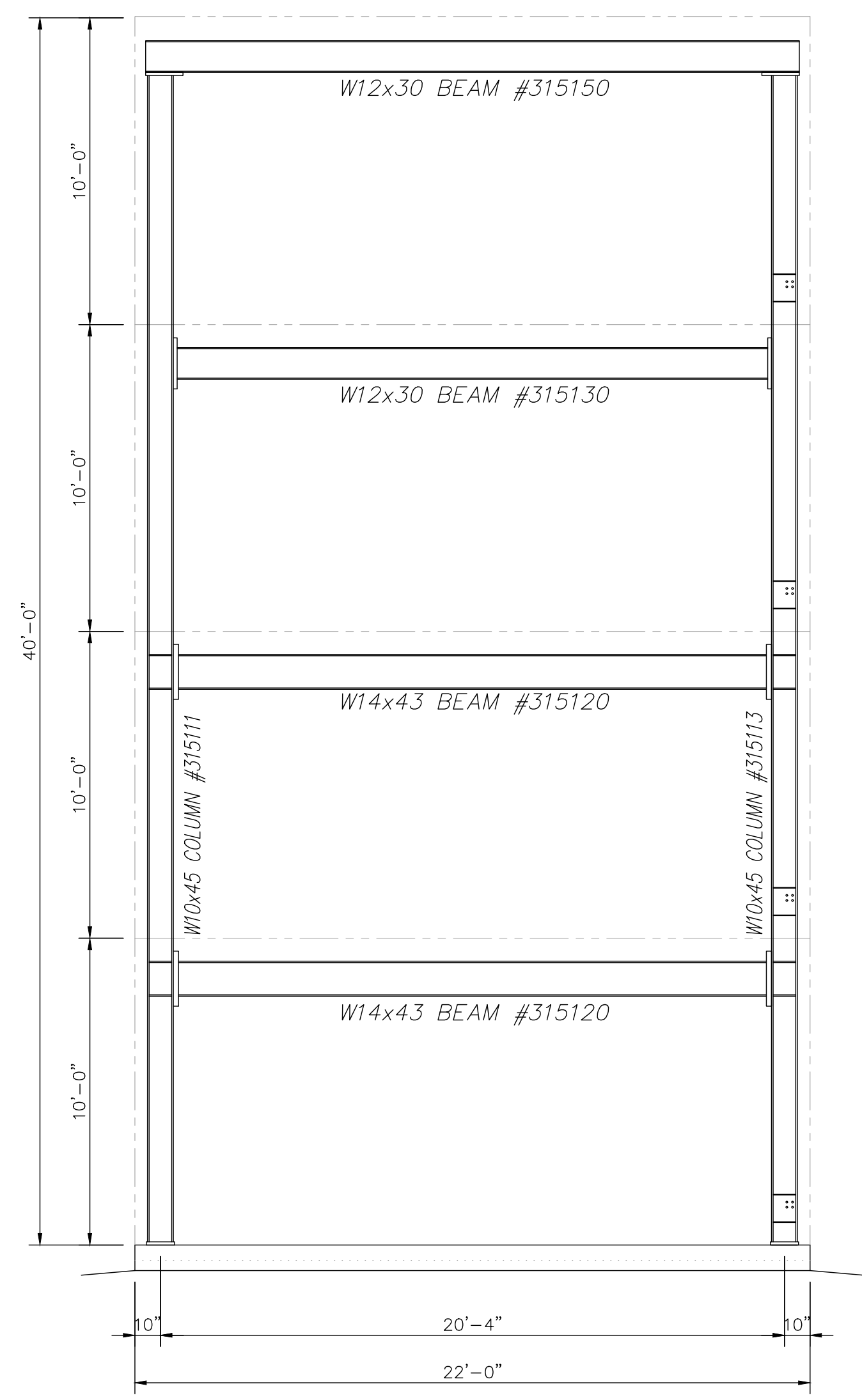
"D" Rafter Support Column Base



"E" Rafter Eave Connection

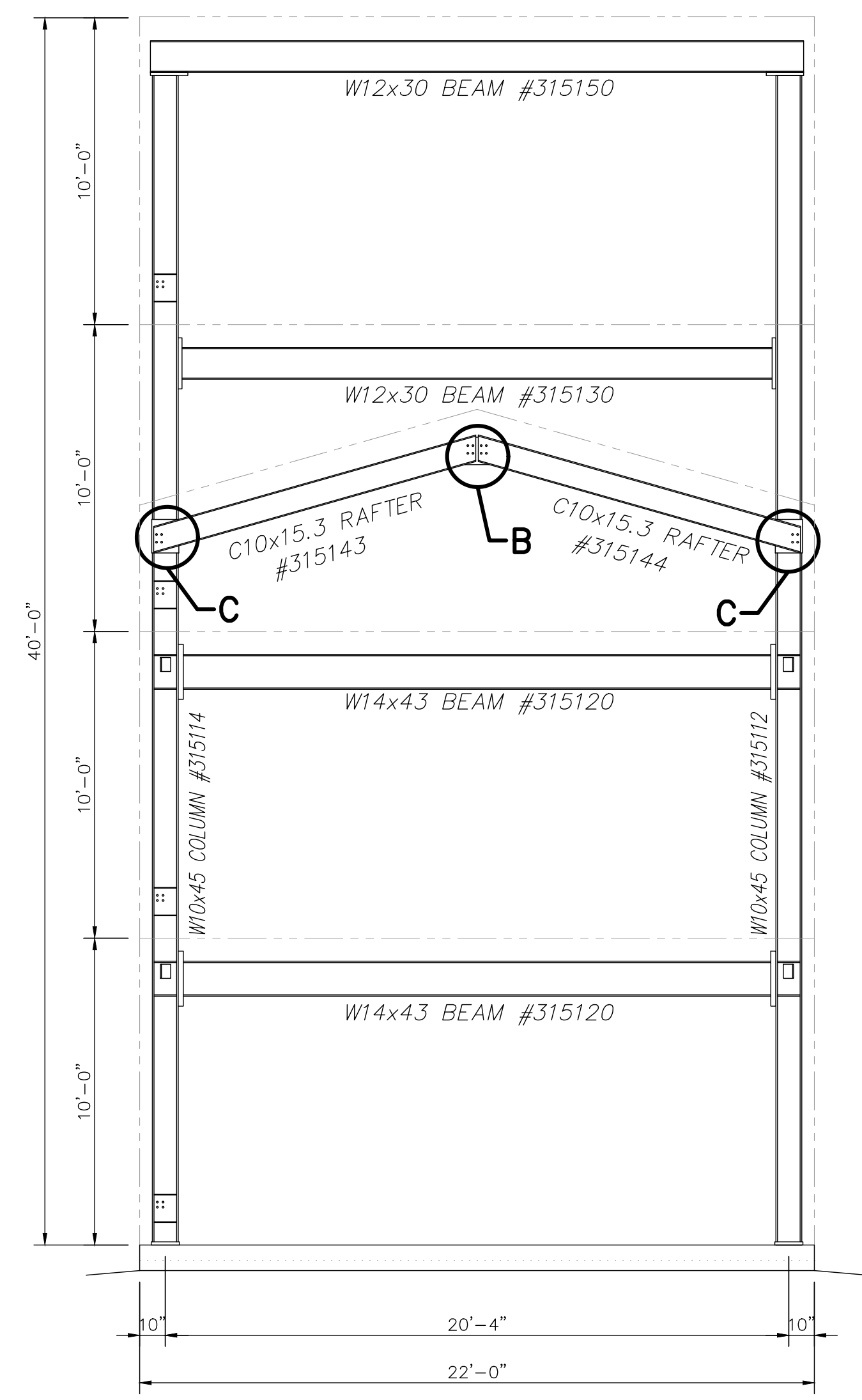


"F" Rafter Ridge Connection



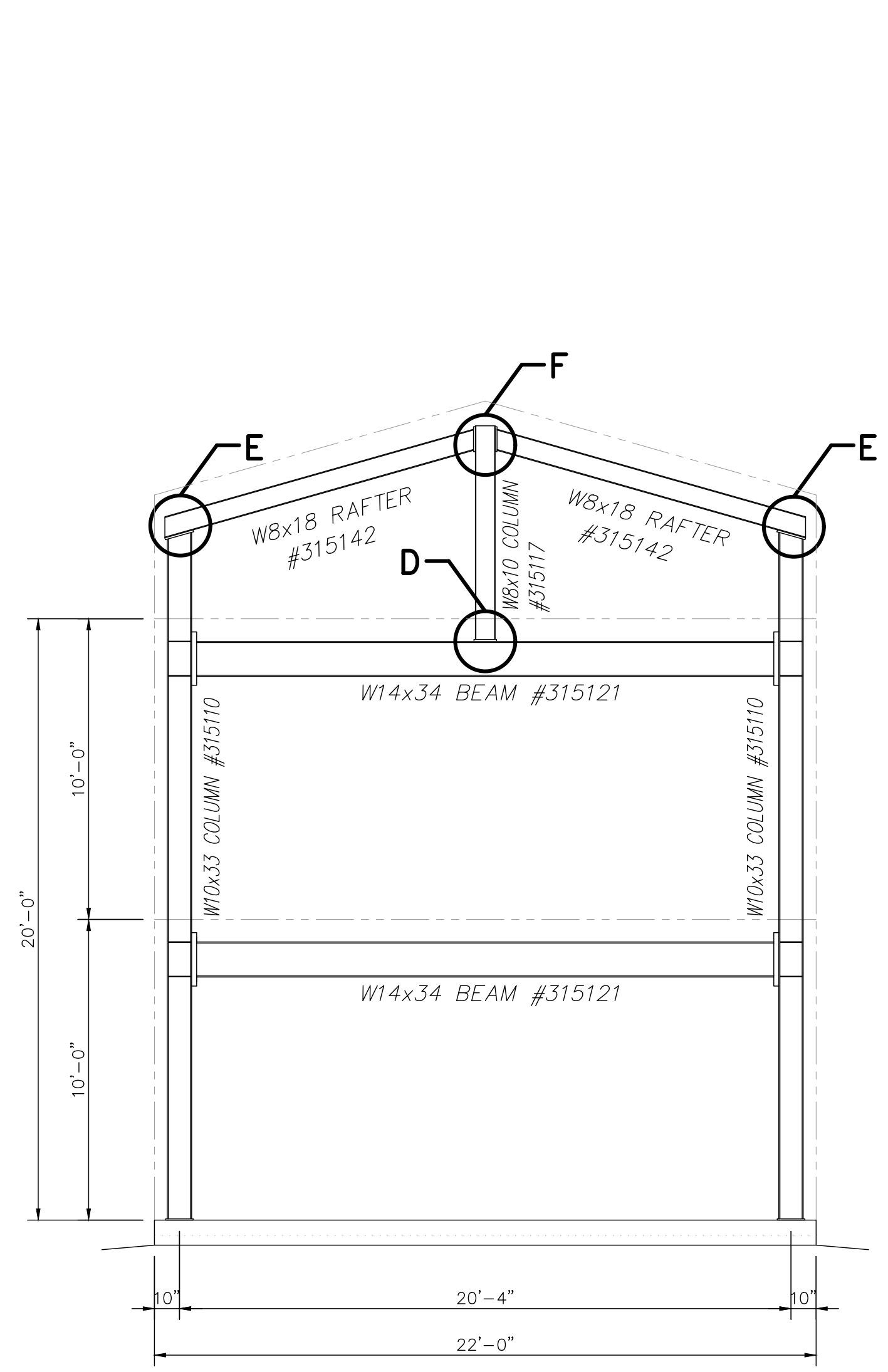
SOUTH END WALL STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"



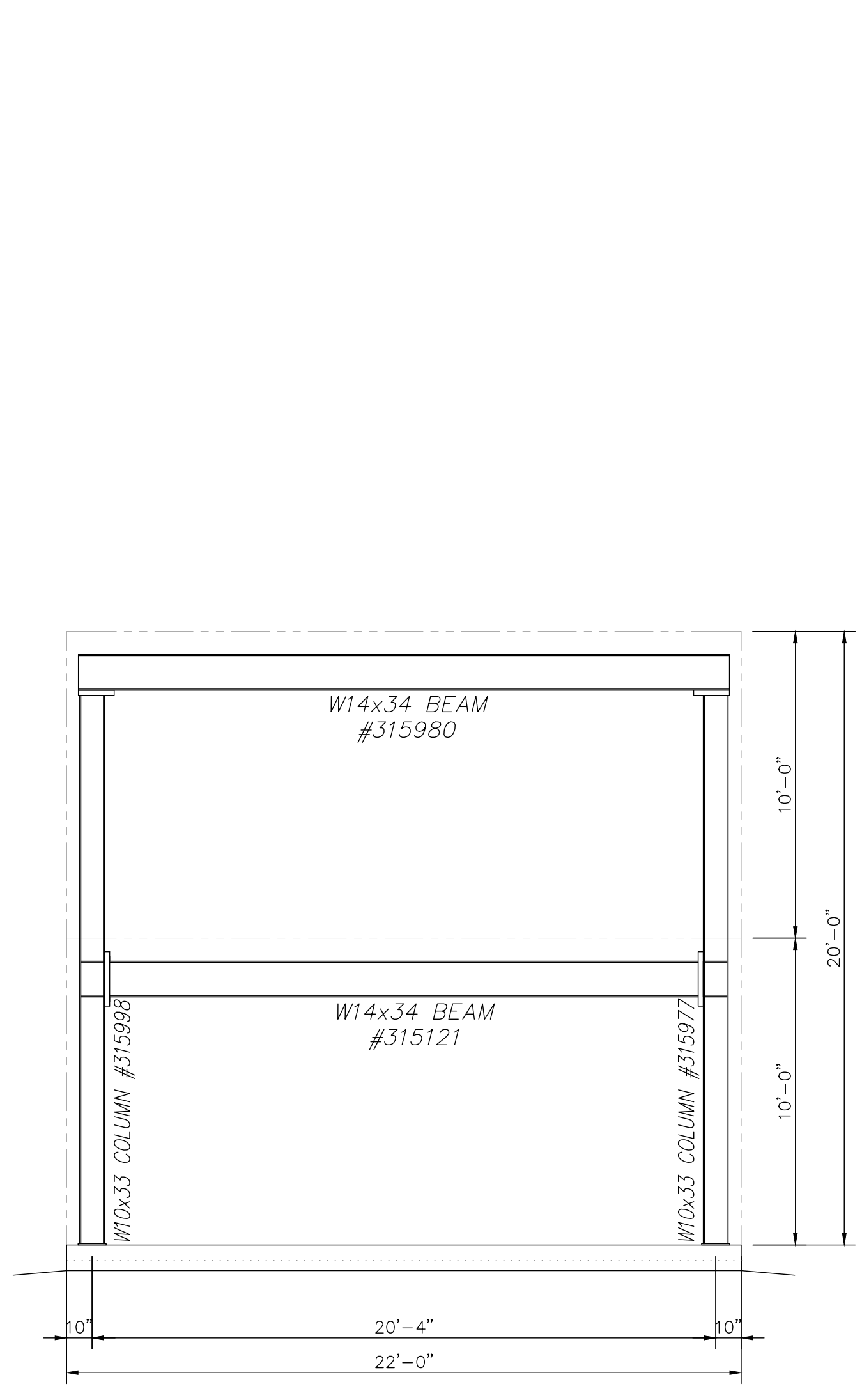
SECTION THRU STRUCTURAL FRAMING AT COMMON WALL

SCALE: 1/4"=1'-0"



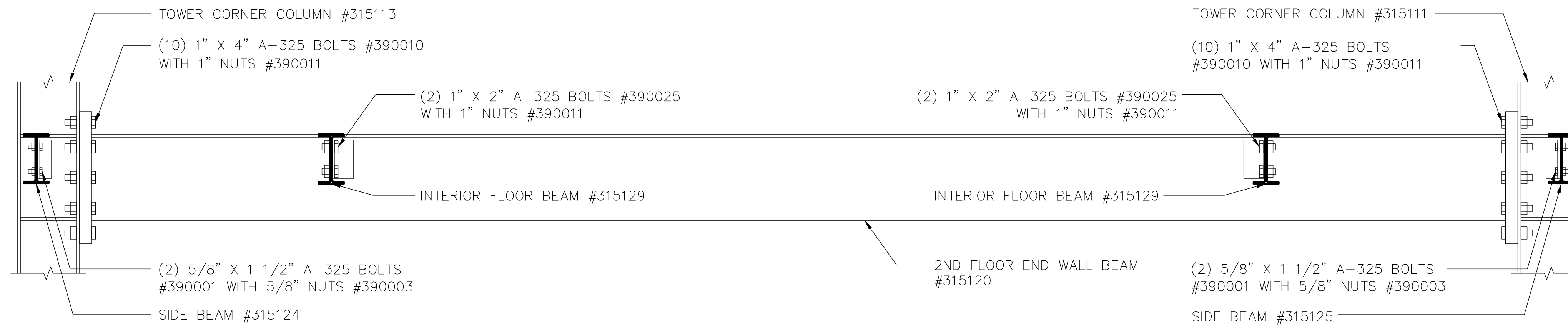
INTERIOR RESIDENCE STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"

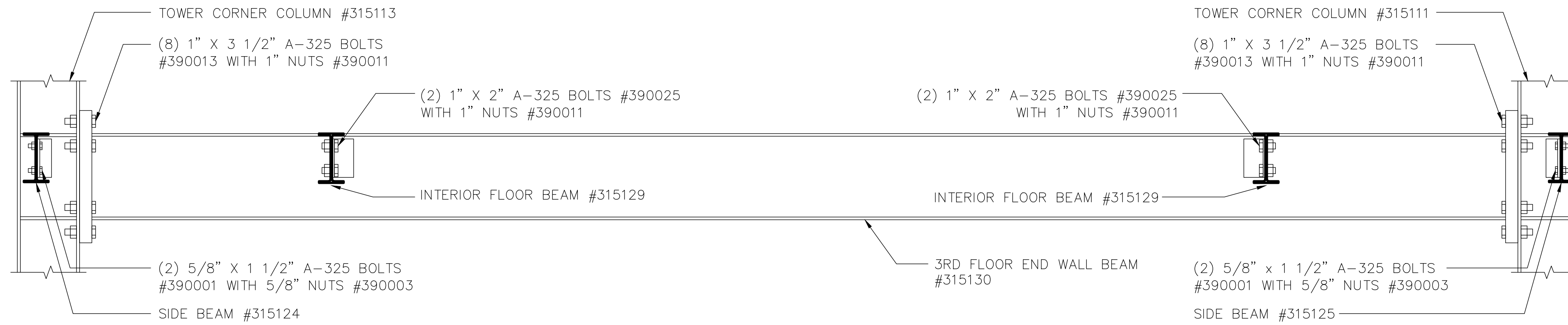


NORTH END WALL STRUCTURAL FRAMING ELEVATION

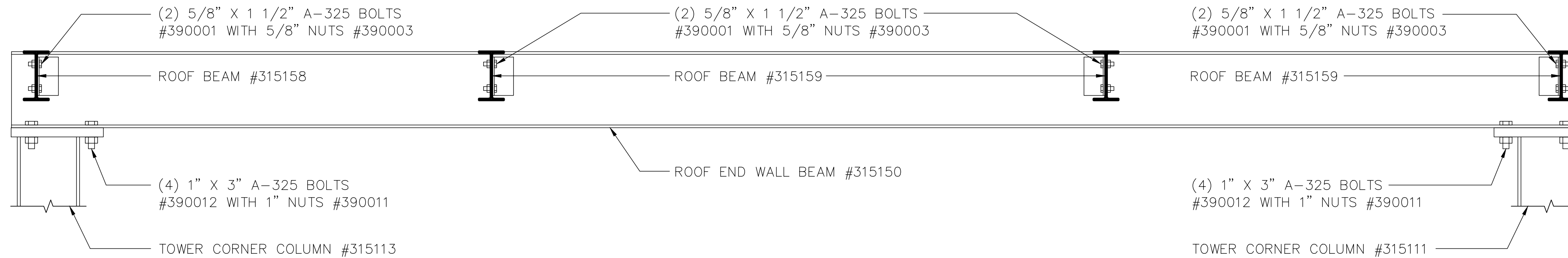
SCALE: 1/4"=1'-0"



"A" SECTION THRU SECOND/THIRD FLOOR TOWER FRAMING

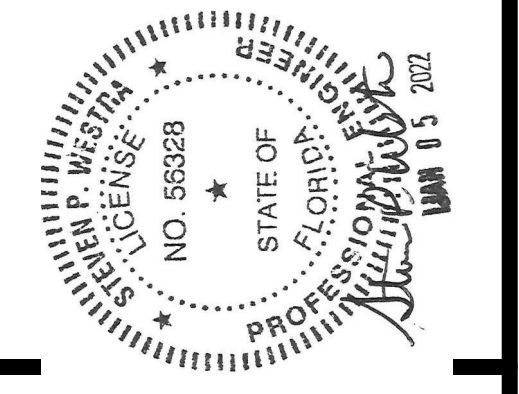


"B" SECTION THRU FOURTH FLOOR TOWER FLOOR FRAMING



"C" SECTION THRU TOWER ROOF FRAMING

REVISIONS	by

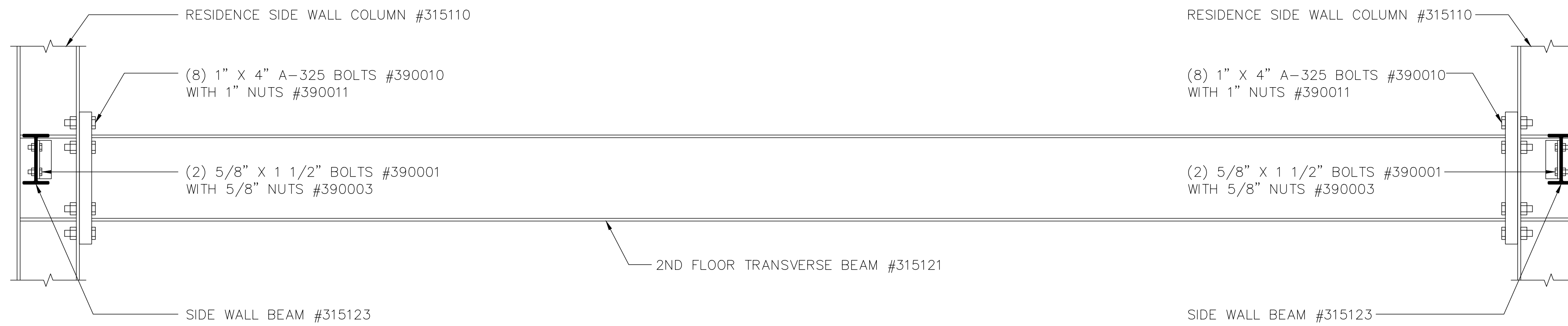


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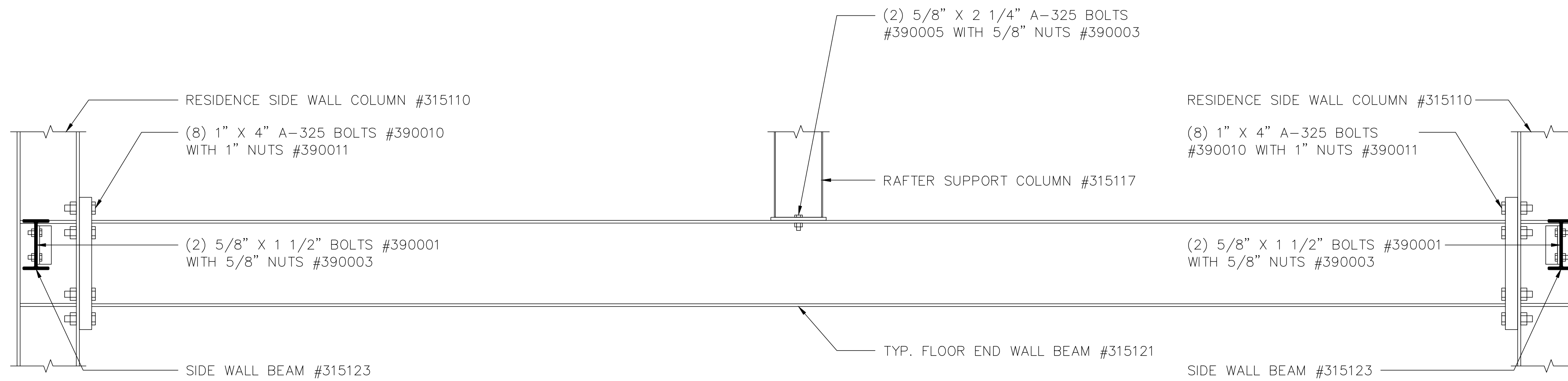
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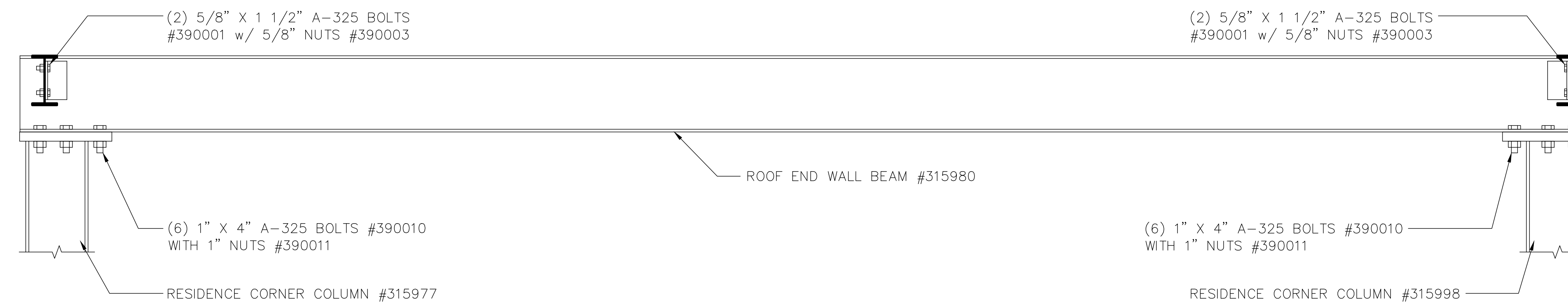
Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	



"D" SECTION THRU SECOND FLOOR RESIDENCE FRAMING



"E" SECTION THRU ATTIC FLOOR RESIDENCE FRAMING



"F" SECTION THRU RESIDENCE ROOF FRAMING

REVISIONS	by

Engineer: Steven P. Westra
 Address: 314 Wilburn Road 53590
 800-929-3726
 Florida License #: FE 95328

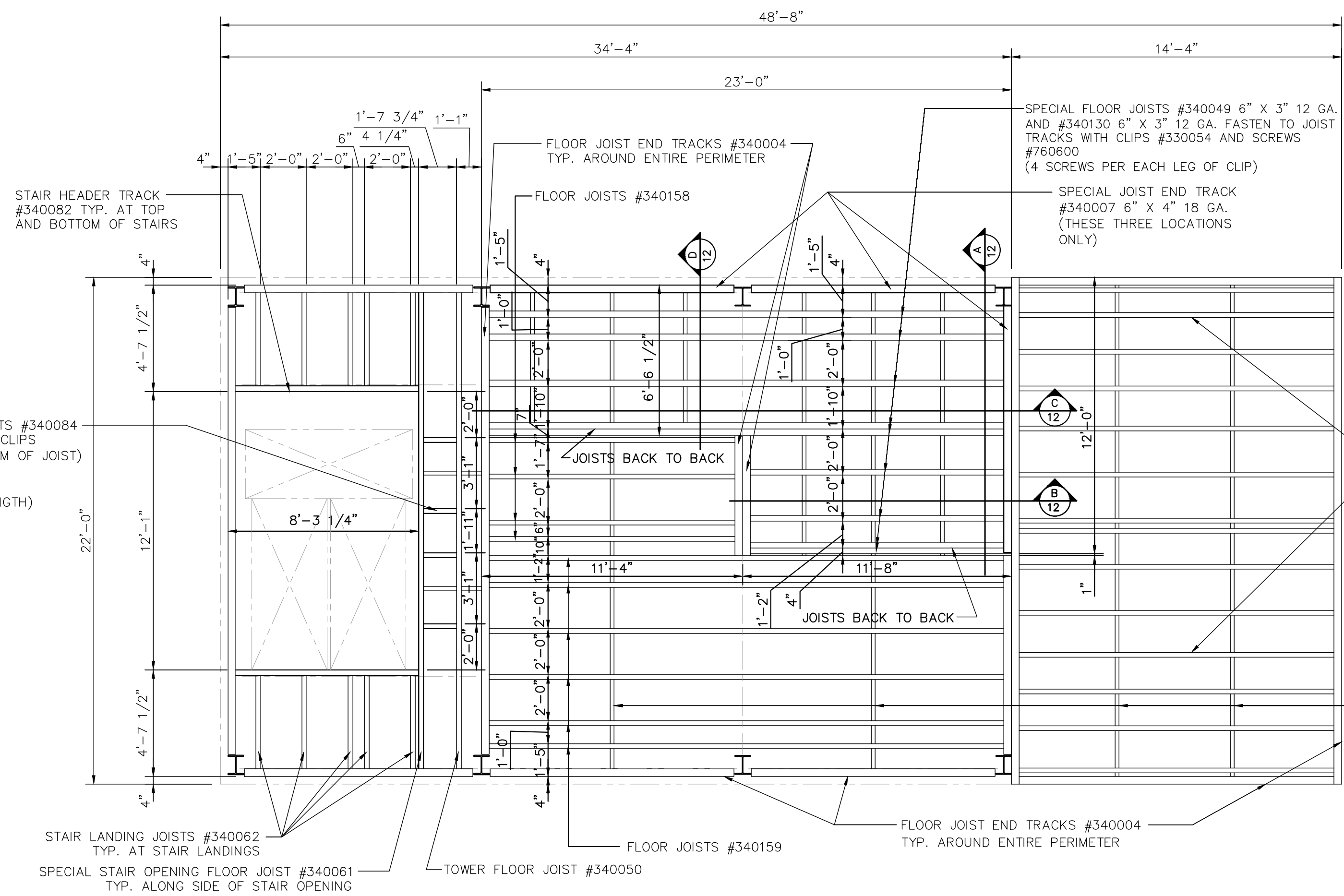
STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 NO. 56328
 EXPIRES 8/5/2022

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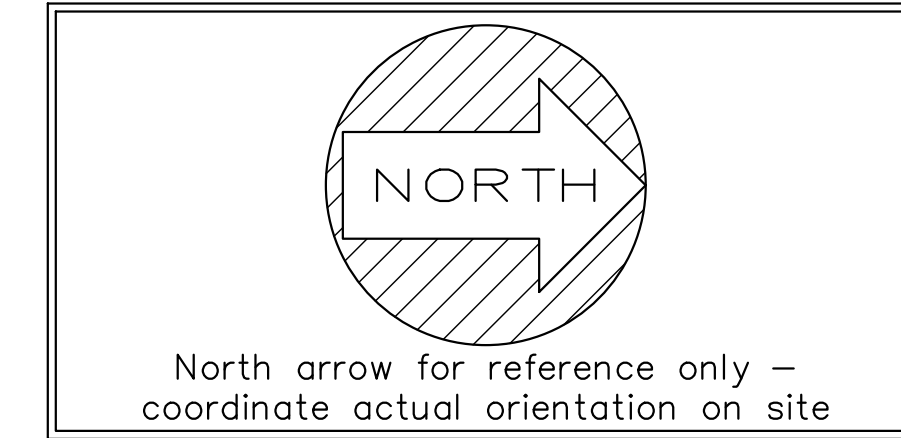
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Sheet Title:	RESIDENTIAL STRUCTURAL SECTIONS
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	10 of 25

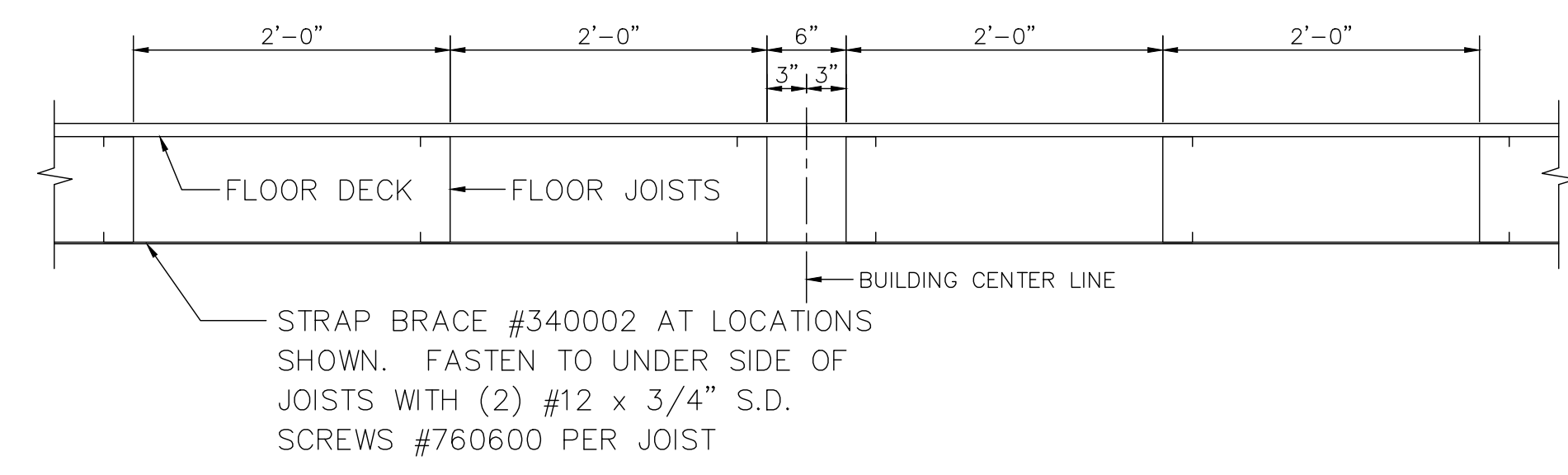


SECOND FLOOR JOIST FRAMING PLAN

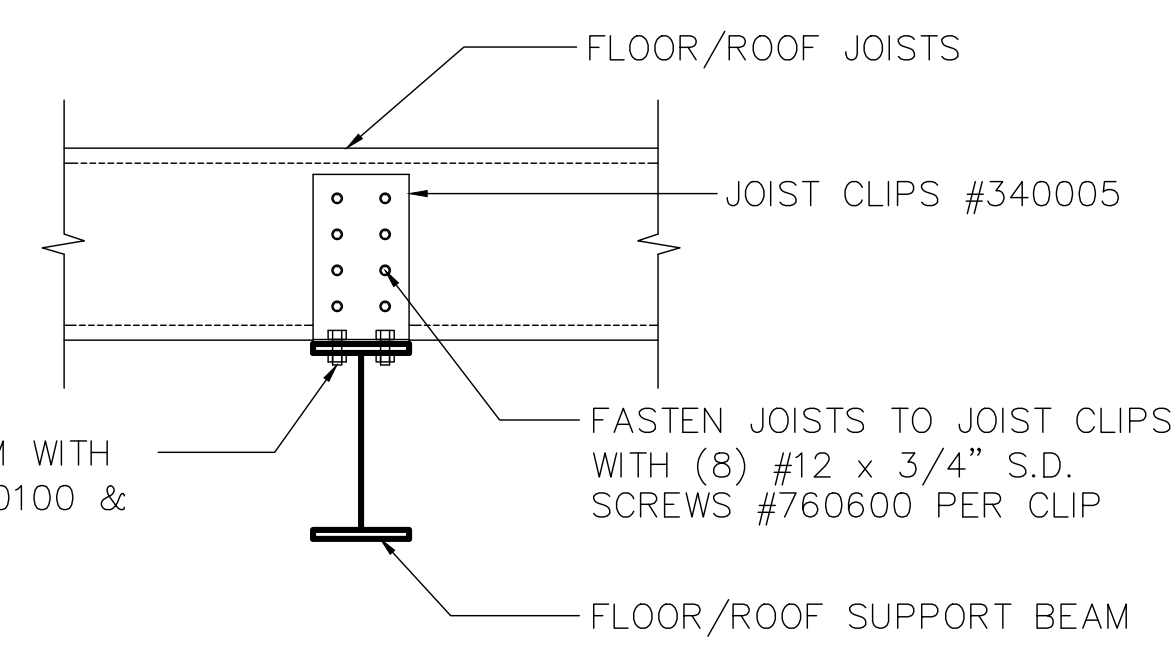
SCALE: 1/4"=1'-0"



TYPICAL FLOOR &/or ROOF JOIST

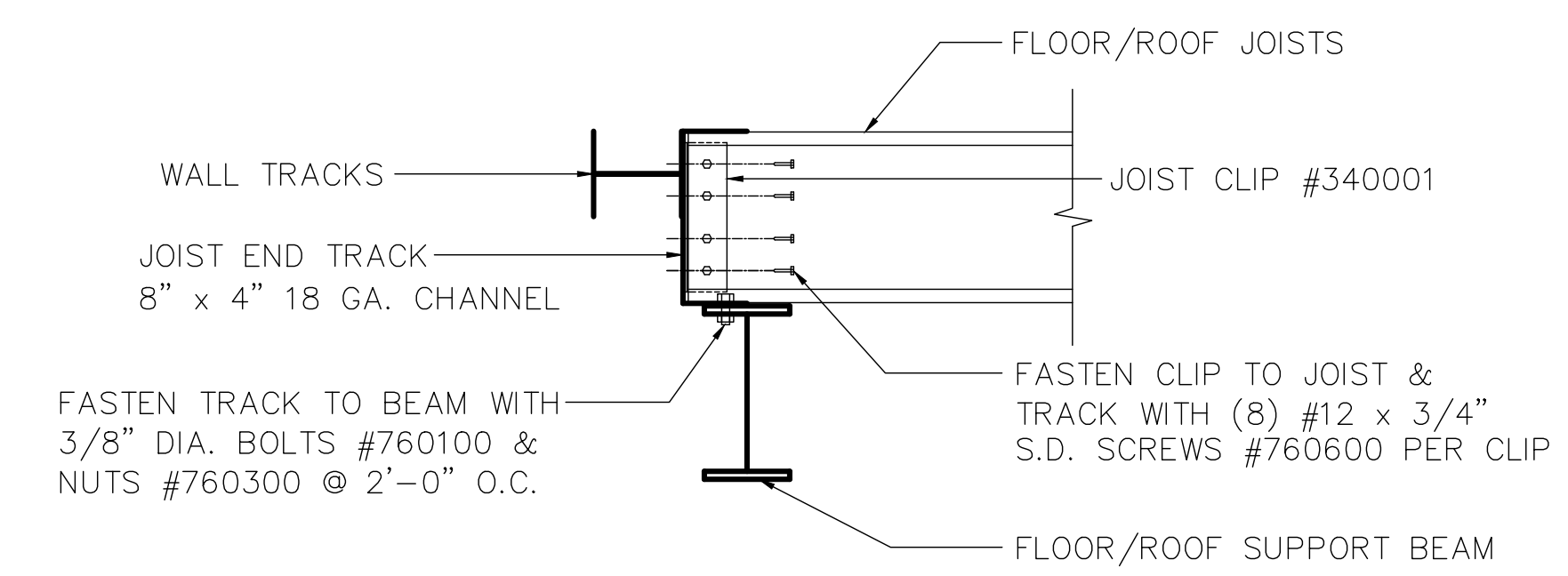


SECTION THRU FLOOR SHOWING TYP. JOIST SPACING

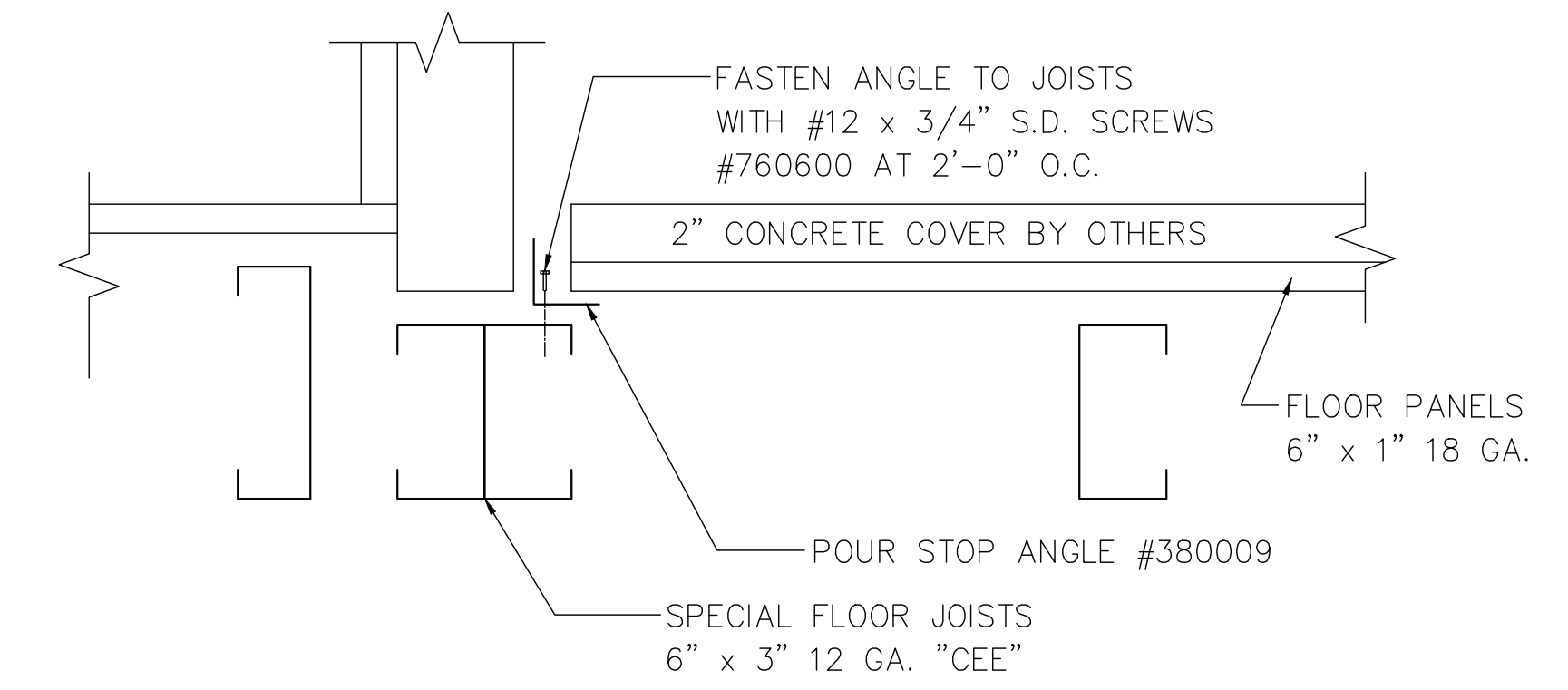


TYP. JOIST TO INTERIOR BEAM CONN.

SOME FIELD DRILLING OF HOLES IN THE STRUCT. BEAM WILL BE REQUIRED FOR THE 3/8" BOLT ATTACHMENT OF THE CLIP TO THE STRUCTURAL BEAM

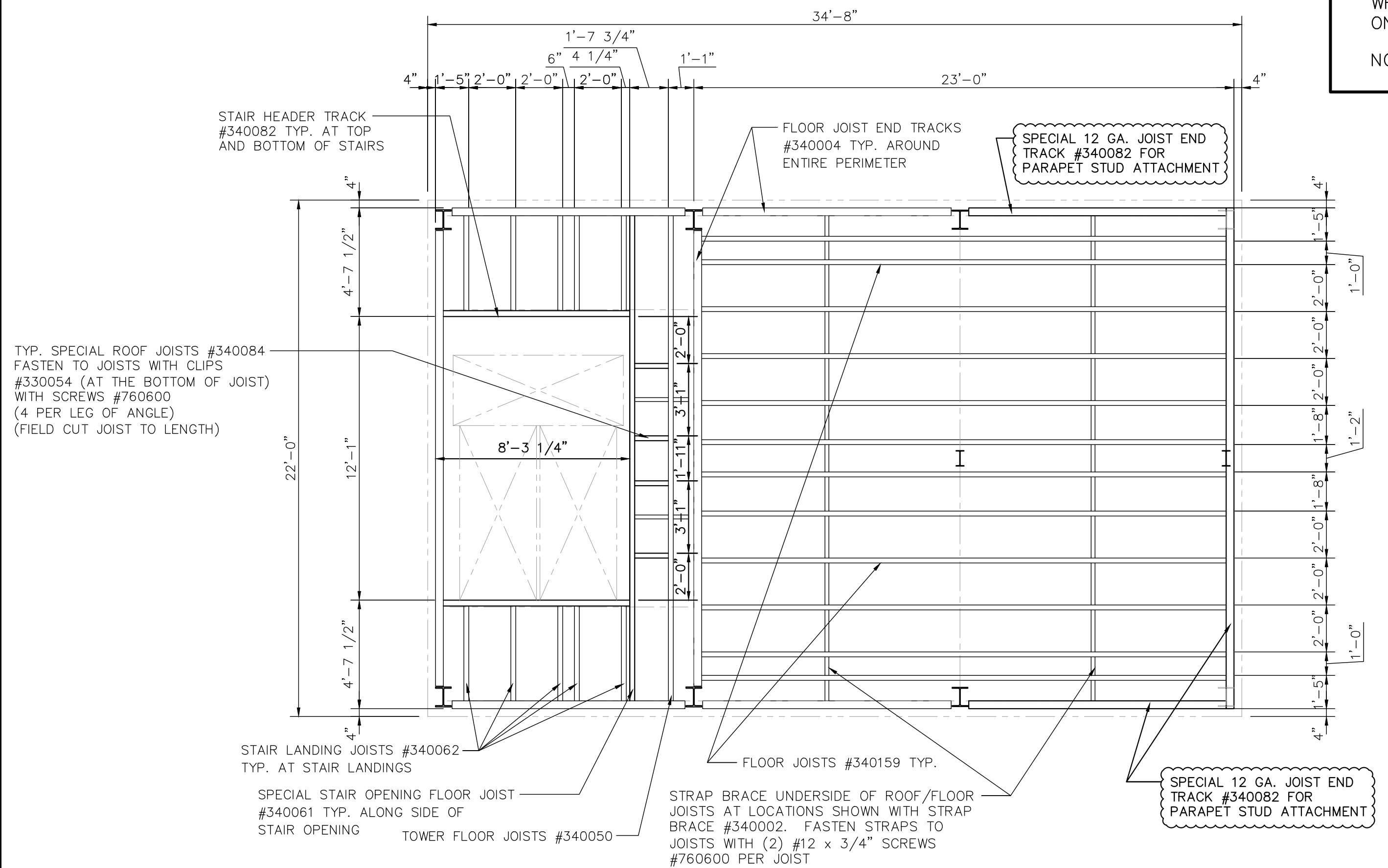


TYP. JOIST TO EXTERIOR BEAM CONN.



TYP. 2ND FLOOR BURN ROOM CONCRETE FLOOR EDGE TRIM DETAIL

scale: 1 1/2" = 1'-0"



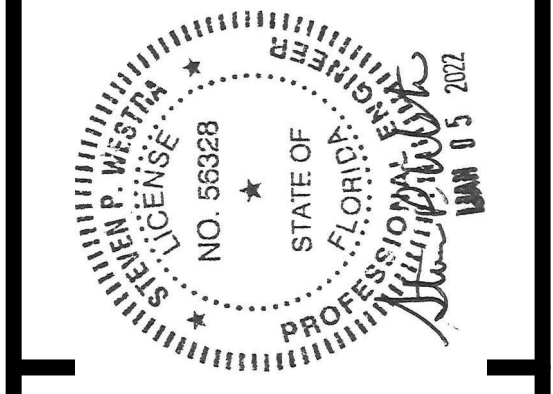
TOWER THIRD FLOOR/ATTIC PLAN/FLAT RESIDENCE ROOF JOIST FRAMING PLAN

SCALE: 1/4"=1'-0"

NOTE: THERE ARE TWO TYPES OF JOIST END TRACK THAT HAVE THE EXACT SAME PROFILE (#340004 IS 18 GAGE, WHILE #340082 IS 12 GAGE). ONLY USE THE 12 GAGE TRACK ON THE ROOF OF THE TOWER AND/OR WHERE SPECIFICALLY DETAILED.
NOTE: FIELD CUT JOISTS AND TRACK AROUND STAIR OPENINGS.

ATTENTION CONTRACTORS: METAL SHAVINGS SHALL BE COMPLETELY REMOVED FROM THE ROOF, FLOORS, AND STUD TRACKS AT THE END OF EACH WORK DAY. FAILURE TO DO SO MAY RESULT IN PREMATURE RUST SPOTS.

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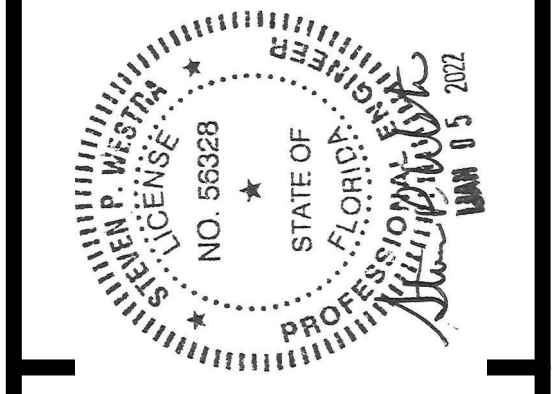
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STEEL FIRE TRAINING TOWERS

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TOLL FREE: (800) 929-3726 TOLL FREE FAX: (866) 639-7012
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Job Description: **WESCO MODEL FF-4**
CUSTOM CRESTVIEW, FL
Sheet Title: **JOIST PLANS AND DETAILS**

Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	11 of 25

REVISIONS	by



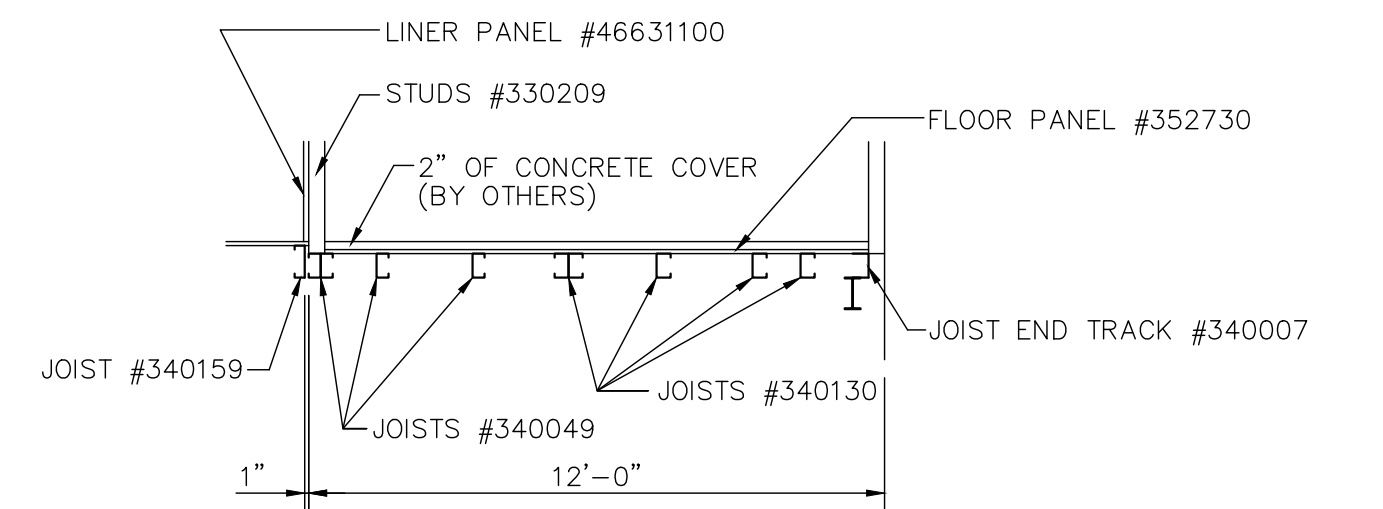
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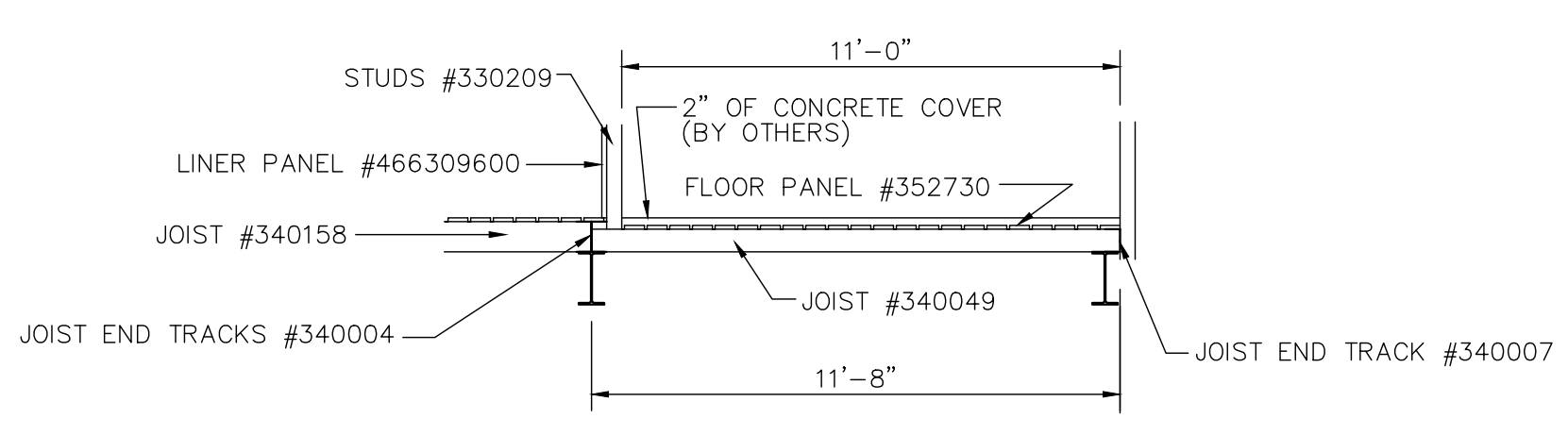
FIRE FACILITIES, INC.
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Job Description: **WESCO MODEL FF-4**
 CUSTOM CRESTVIEW, FL
 Sheet Title: **JOIST PLANS AND DETAILS CONT.**

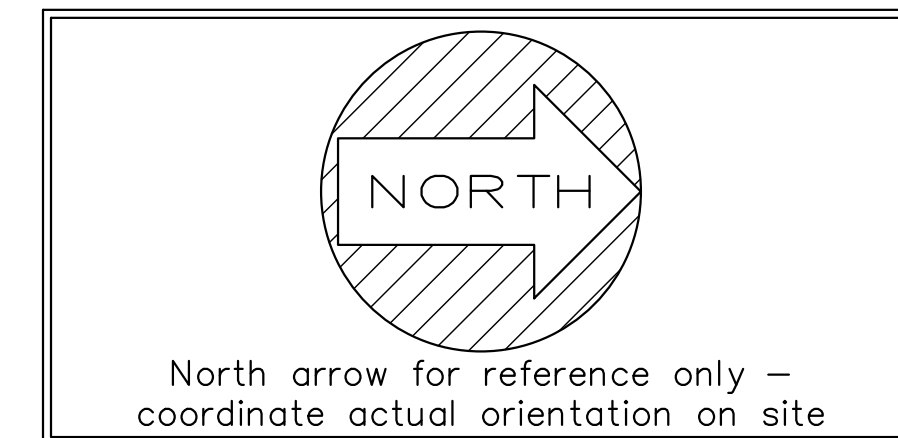
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	12 of 25



DETAIL A FROM PAGE 11 (SECTION THROUGH)
 SCALE: 1/4"=1'-0"



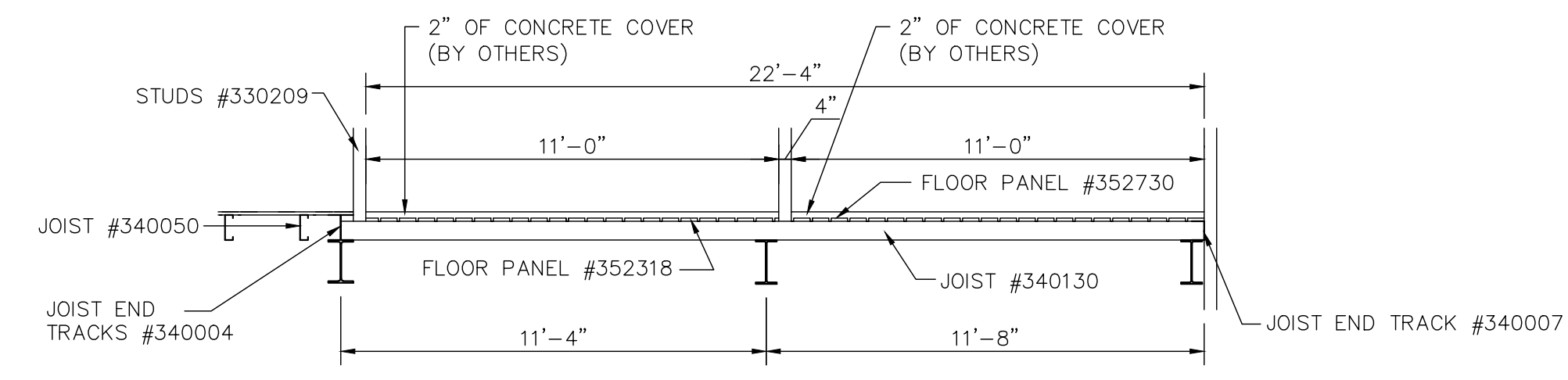
DETAIL B FROM PAGE 11 (SECTION THROUGH)
 SCALE: 1/4"=1'-0"



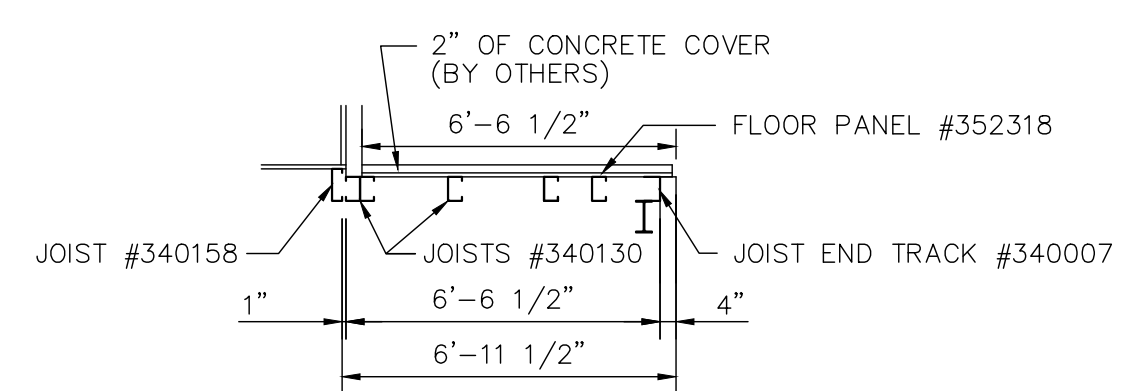
NOTE: THERE ARE TWO TYPES OF JOIST END TRACK THAT HAVE THE EXACT SAME PROFILE (#340004 IS 18 GAGE, WHILE #340082 IS 12 GAGE). ONLY USE THE 12 GAGE TRACK ON THE ROOF OF THE TOWER AND/OR WHERE SPECIFICALLY DETAILED.

NOTE: FIELD CUT JOISTS AND TRACK AROUND ROOF OPENINGS.

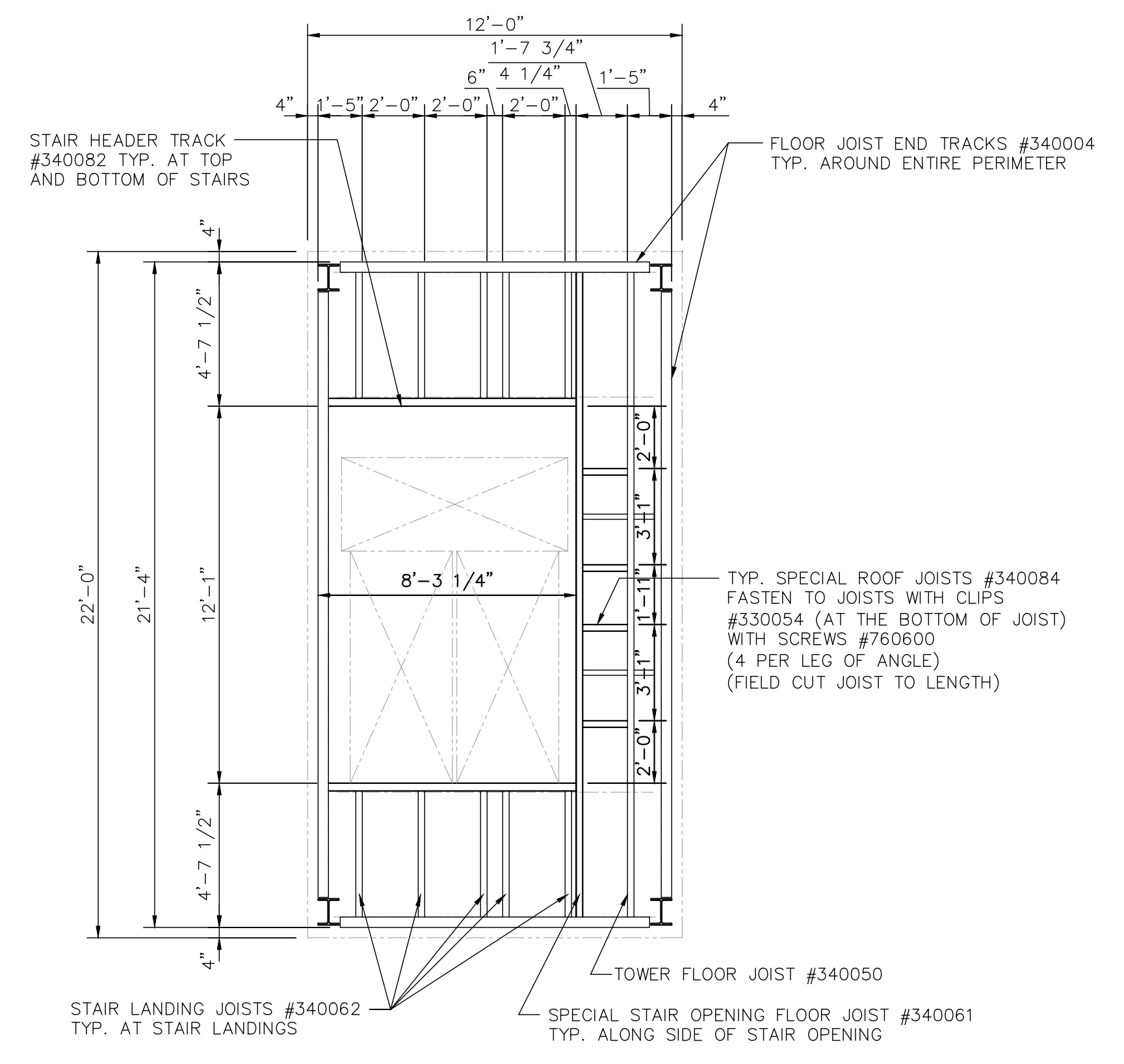
NOTE: FIELD CUT JOISTS AND TRACK AROUND STAIR OPENINGS.



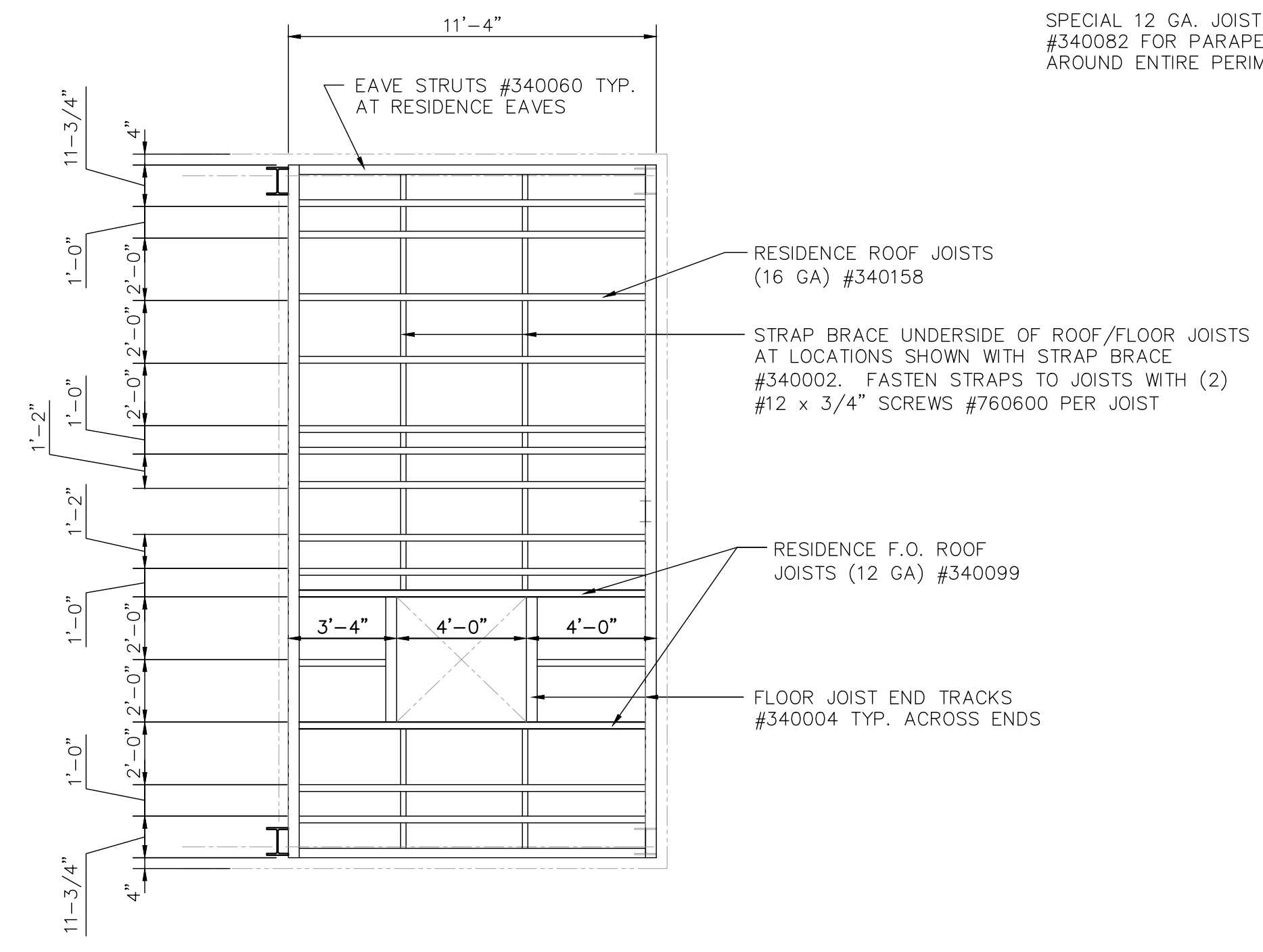
DETAIL C FROM PAGE 11 (SECTION THROUGH)
 SCALE: 1/4"=1'-0"



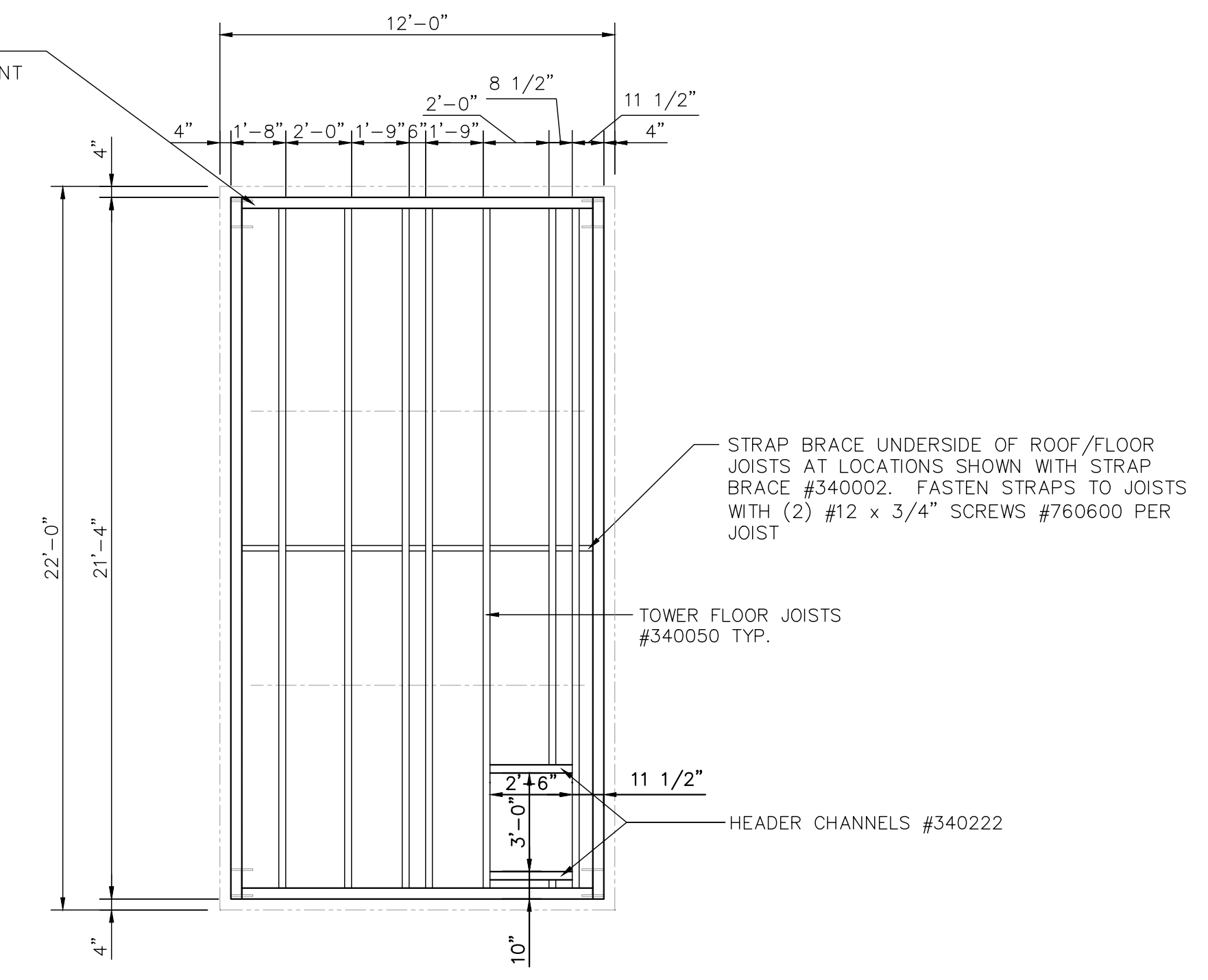
DETAIL D FROM PAGE 11 (SECTION THROUGH)
 SCALE: 1/4"=1'-0"



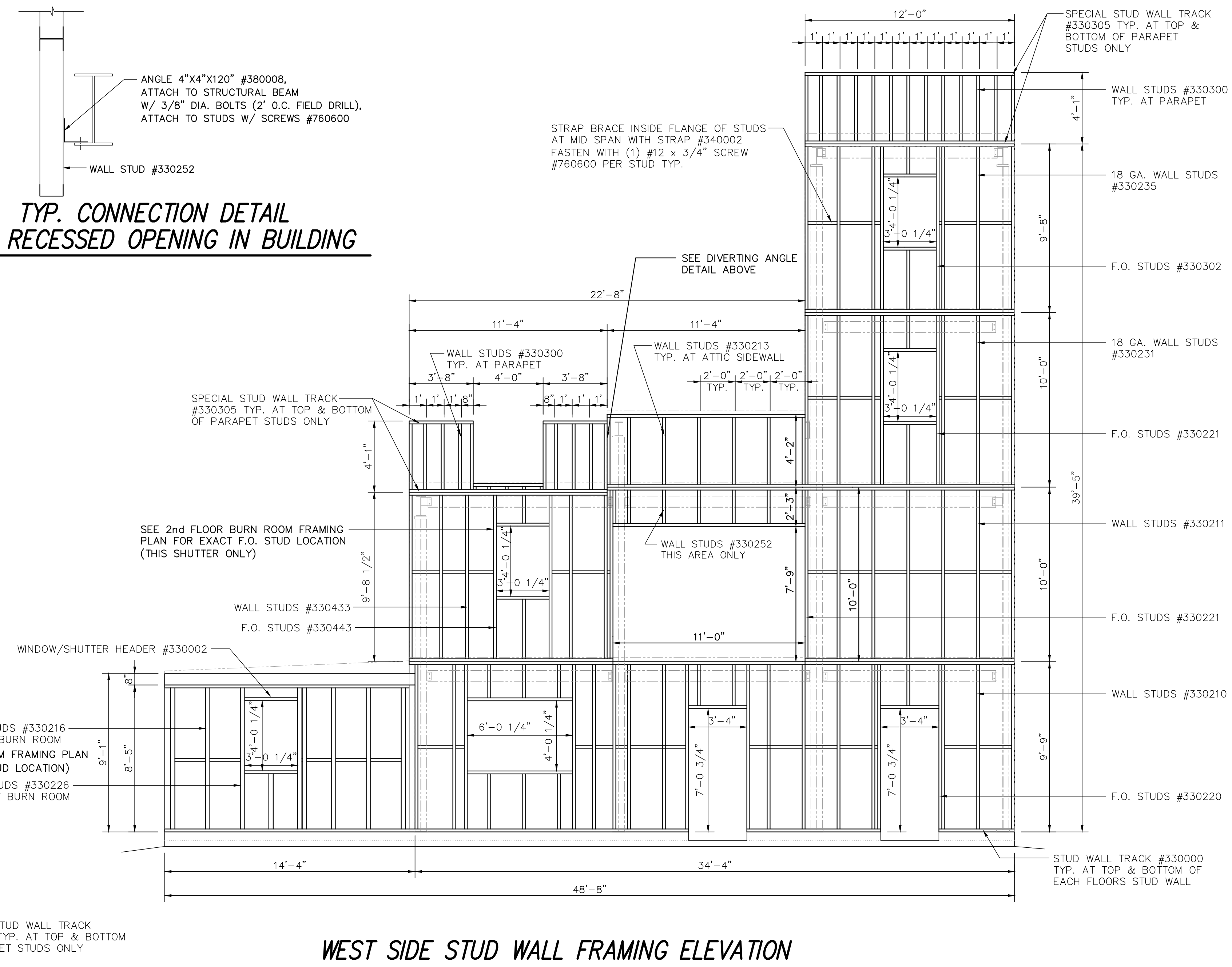
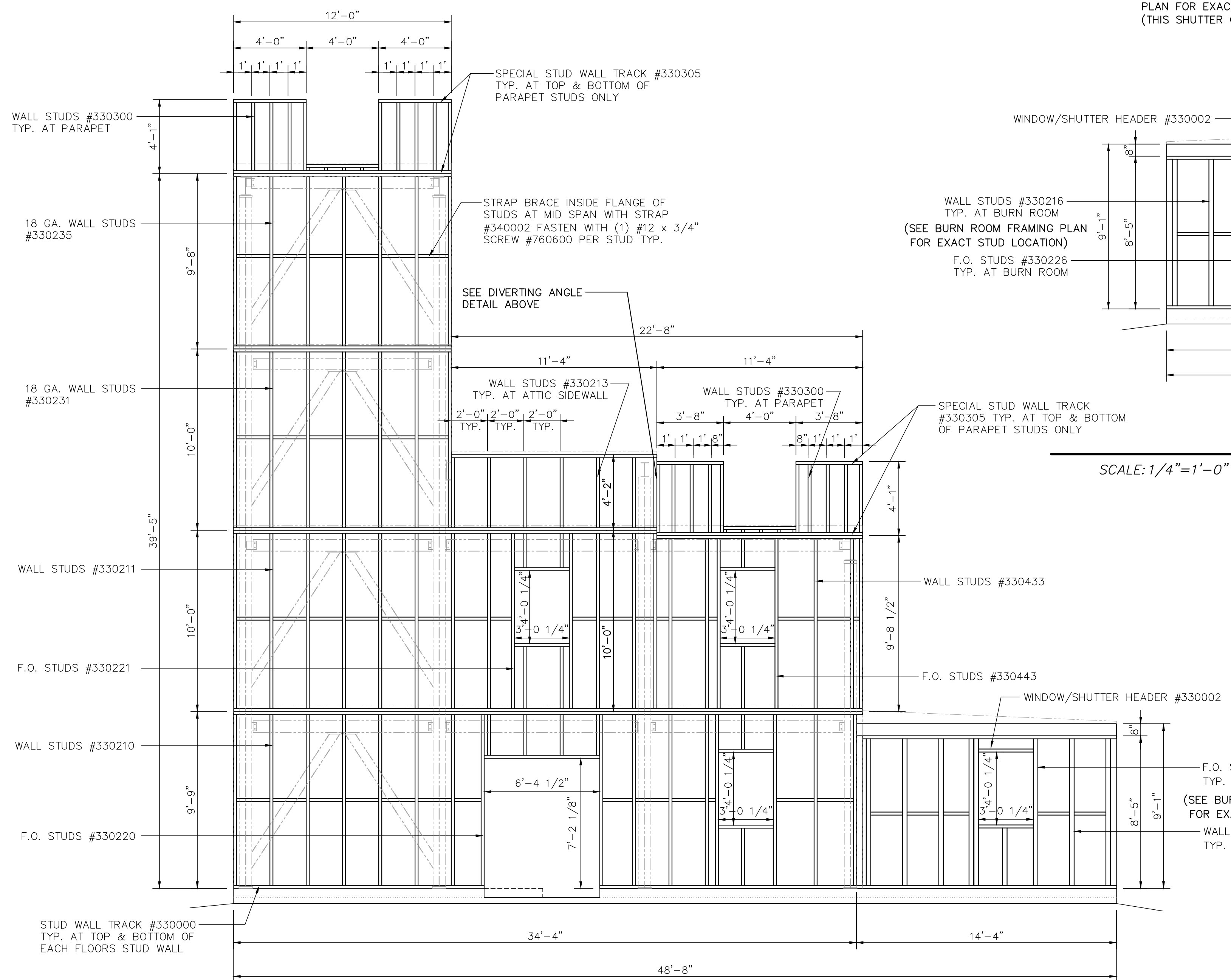
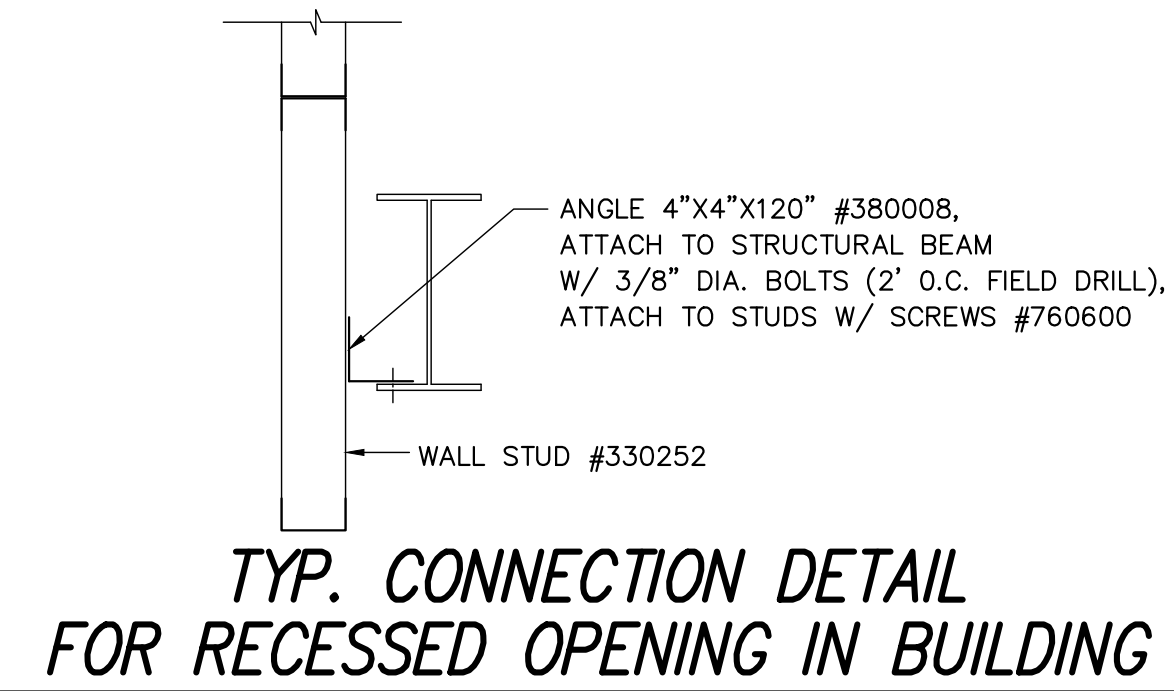
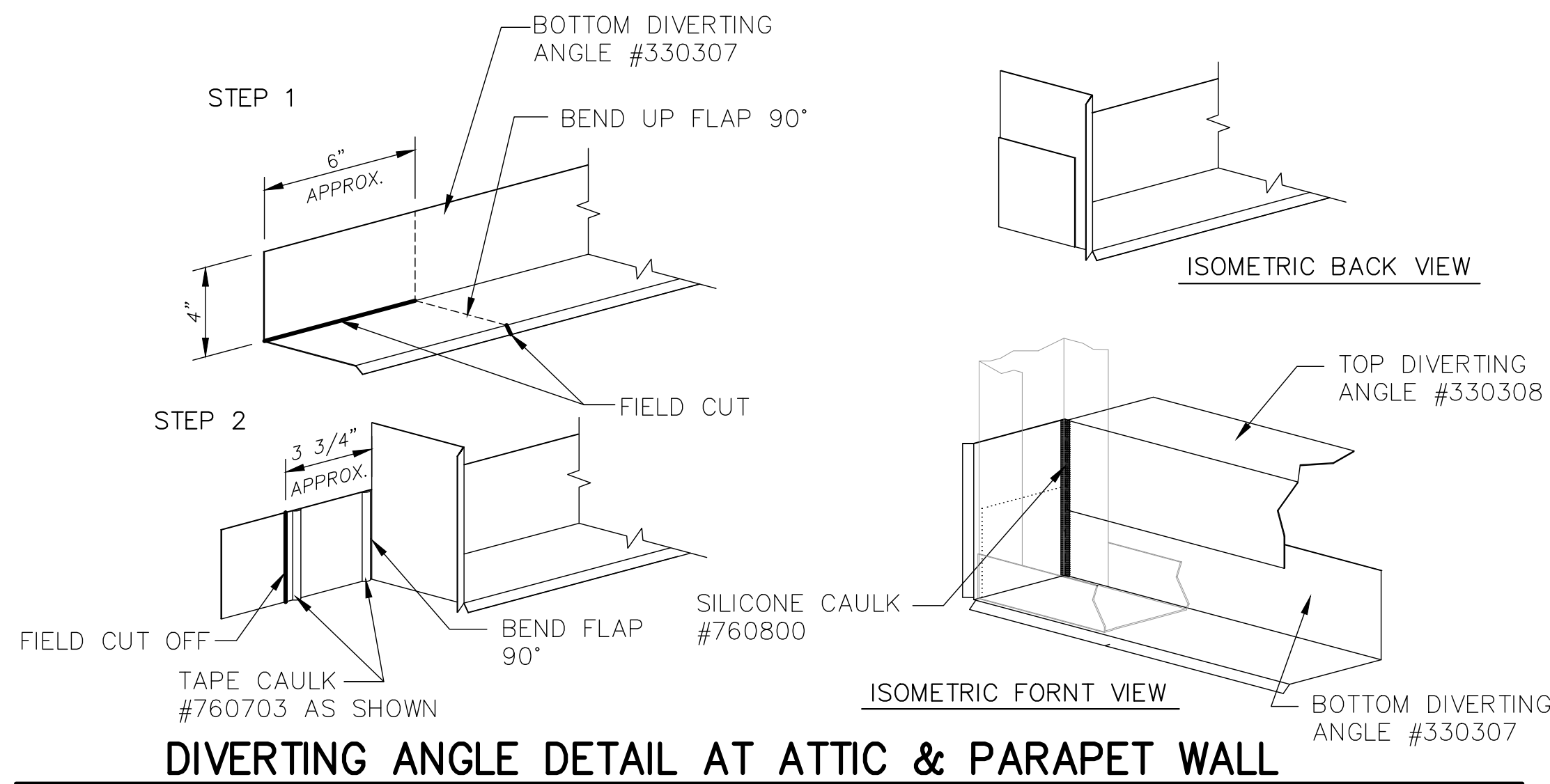
FOURTH FLOOR JOIST FRAMING PLAN
 SCALE: 1/4"=1'-0"



GABLED RESIDENCE ROOF JOIST FRAMING PLAN
 SCALE: 1/4"=1'-0"



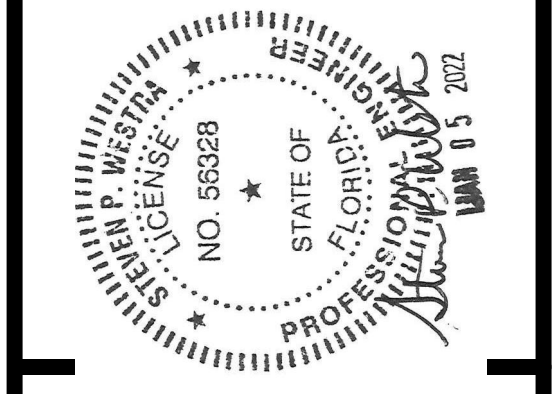
TOWER ROOF JOIST FRAMING PLAN
 SCALE: 1/4"=1'-0"



ATTENTION CONTRACTORS:
METAL SHAVINGS SHALL BE COMPLETELY REMOVED FROM THE ROOF, FLOORS, AND STUD TRACKS AT THE END OF EACH WORK DAY. FAILURE TO DO SO MAY RESULT IN PREMATURE RUST SPOTS.

- NOTE: MAXIMUM STUD SPACING FOR PARAPET IS 1'-0", WHILE MAXIMUM STUD SPACING ANYWHERE ELSE IS 2'-0".
- NOTE: FIELD LOCATE RESIDENCE AND TOWER FRAMED OPENINGS UNLESS DIMENSIONED ON PLANS OR ELEVATIONS.
- NOTE: FIELD CUT FRAMING AROUND FRAMED OPENINGS

REVISIONS	by

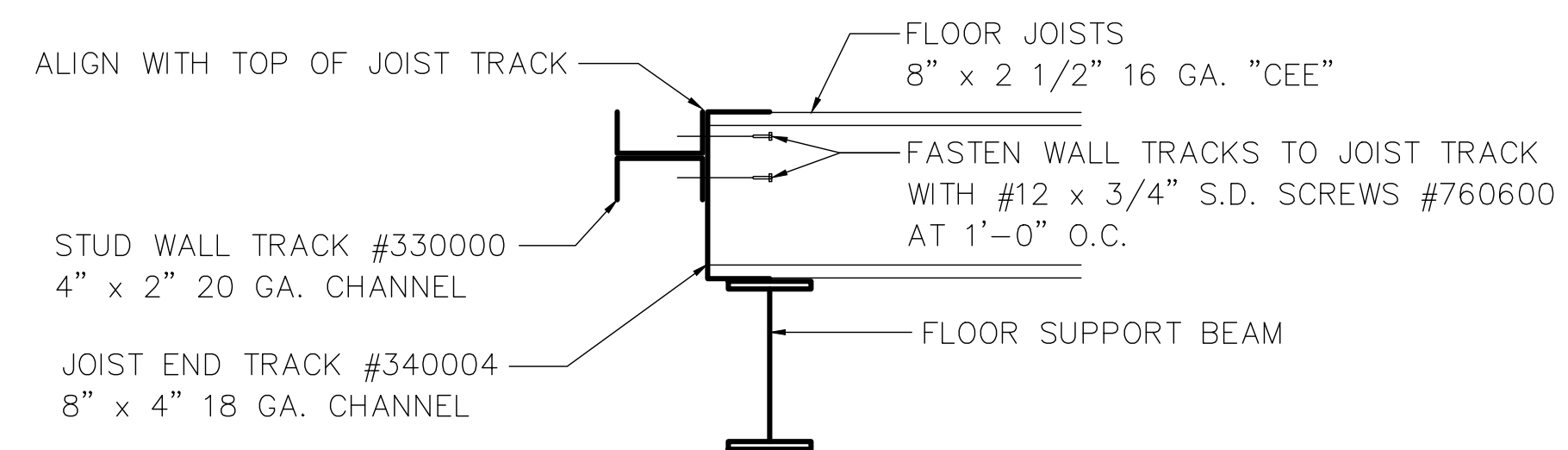


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STEEL FIRE TRAINING TOWERS

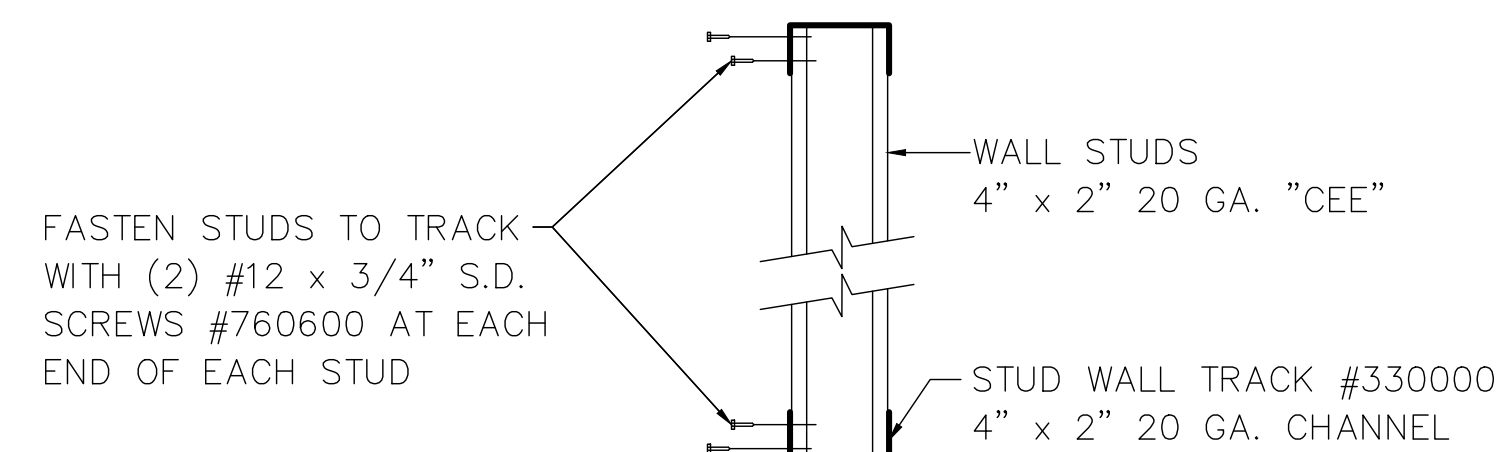
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Sheet Title:	STUD WALL ELEVATIONS & DETAILS
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	13 of 25



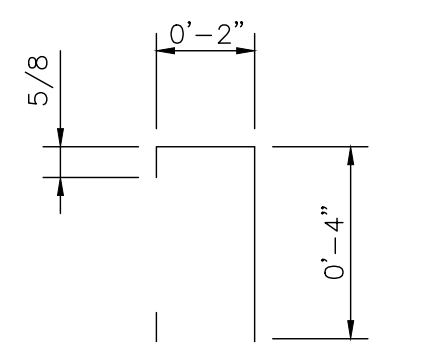
TYPICAL TOWER STUD TRACK CONNECTION

scale: 1 1/2" = 1'-0"

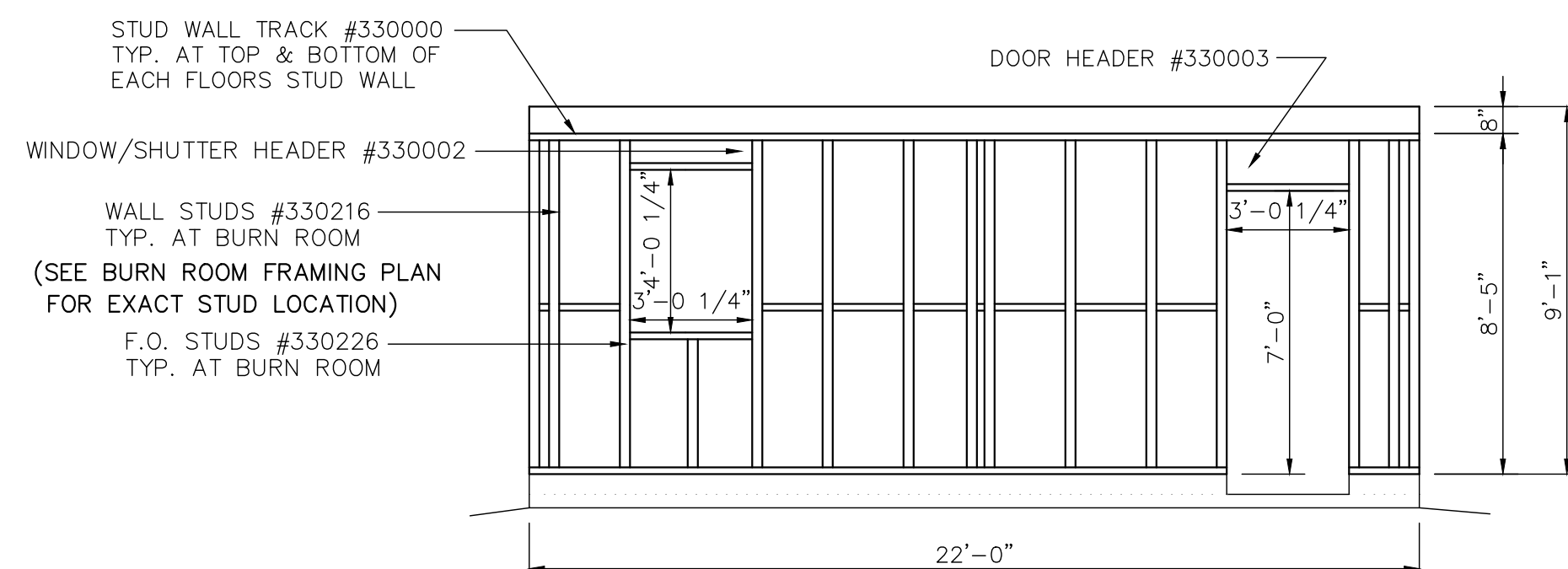


TYPICAL TOWER STUD CONNECTION

scale: 1 1/2" = 1'-0"

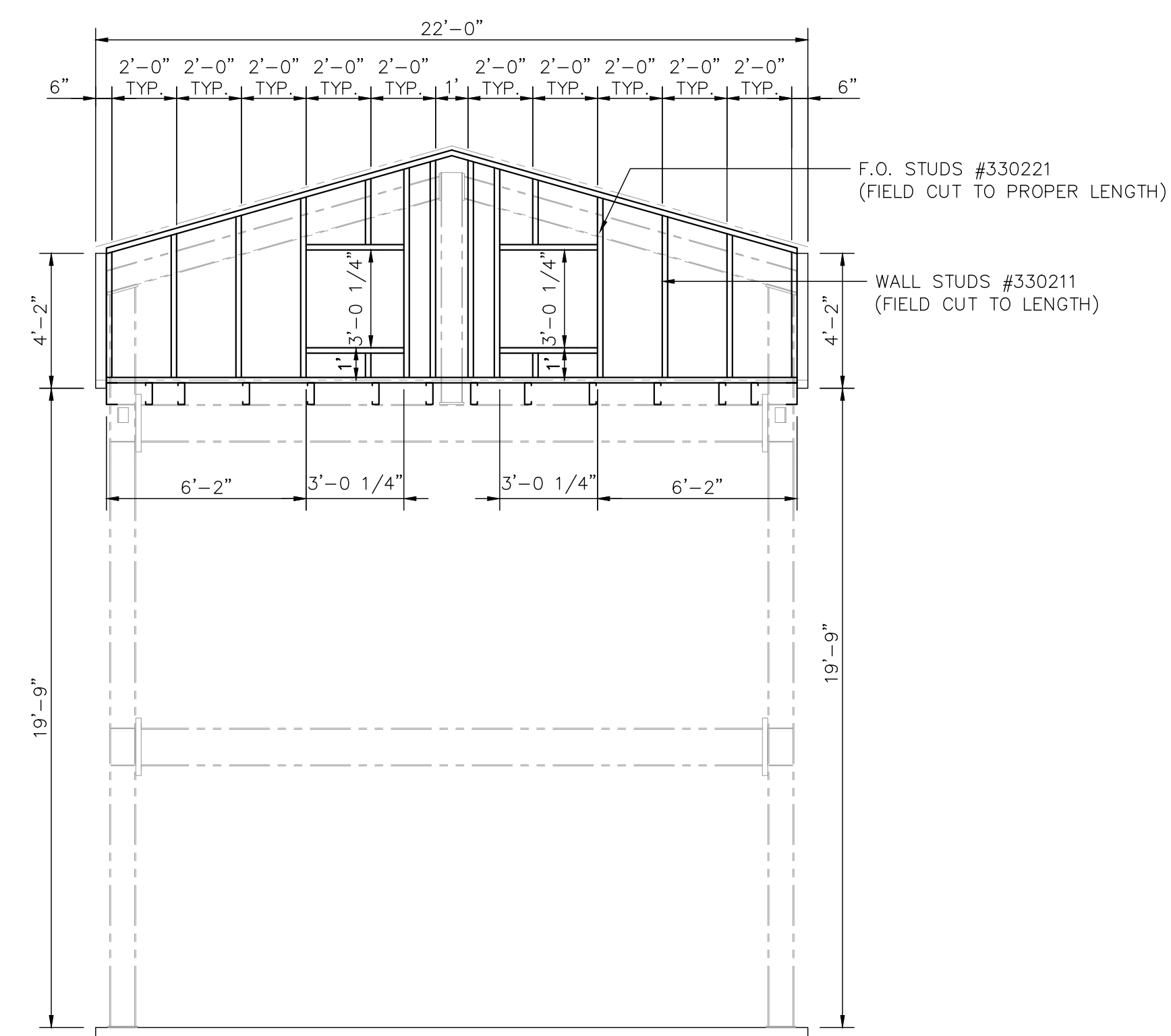


TYP. WALL STUD



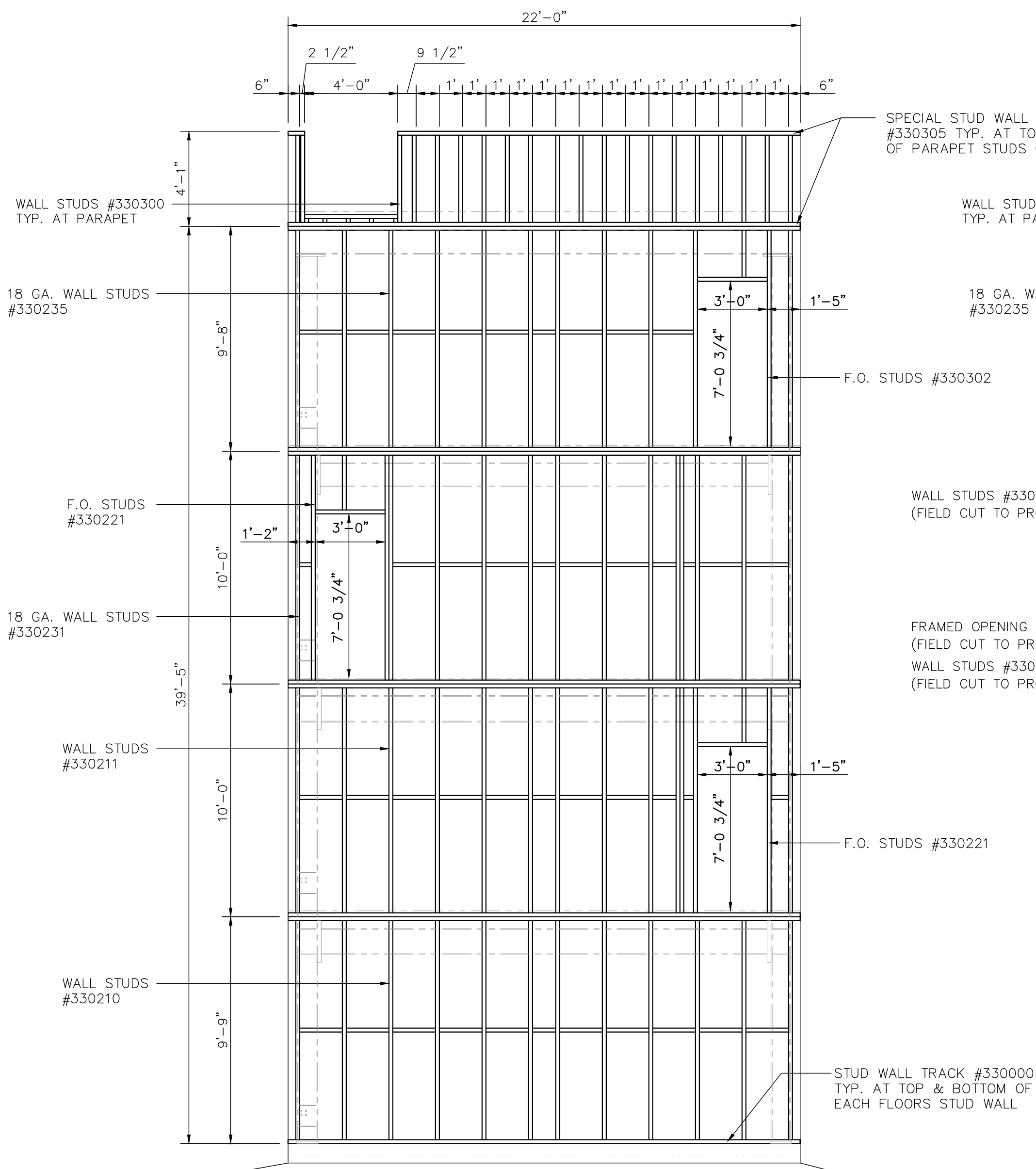
NORTH END ANNEX WALL FRAMING

SCALE: 1/4"=1'-0"



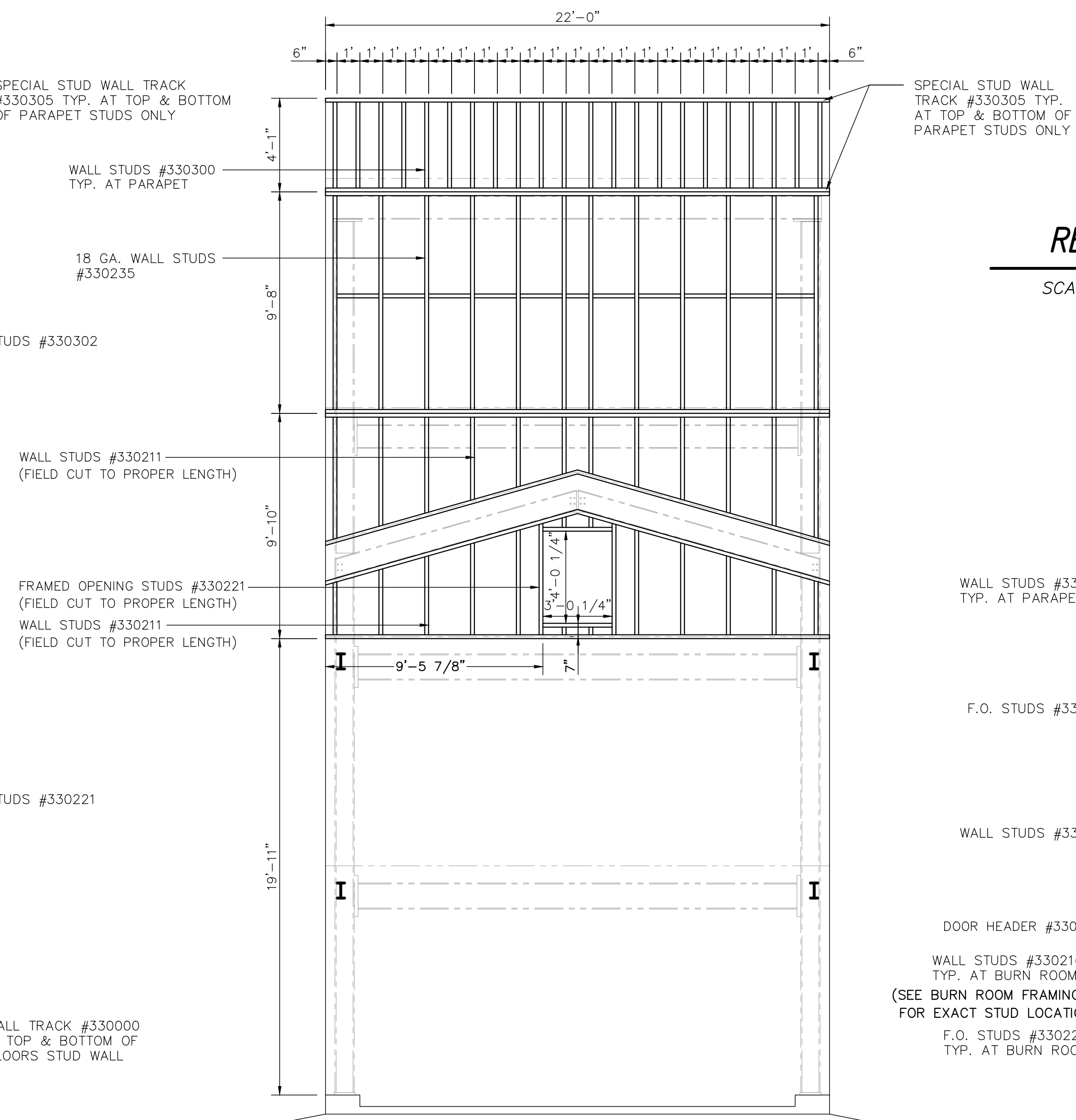
RESIDENCE & FLAT ROOF TRANSITION STUD WALL FRAMING

SCALE: 1/4"=1'-0"



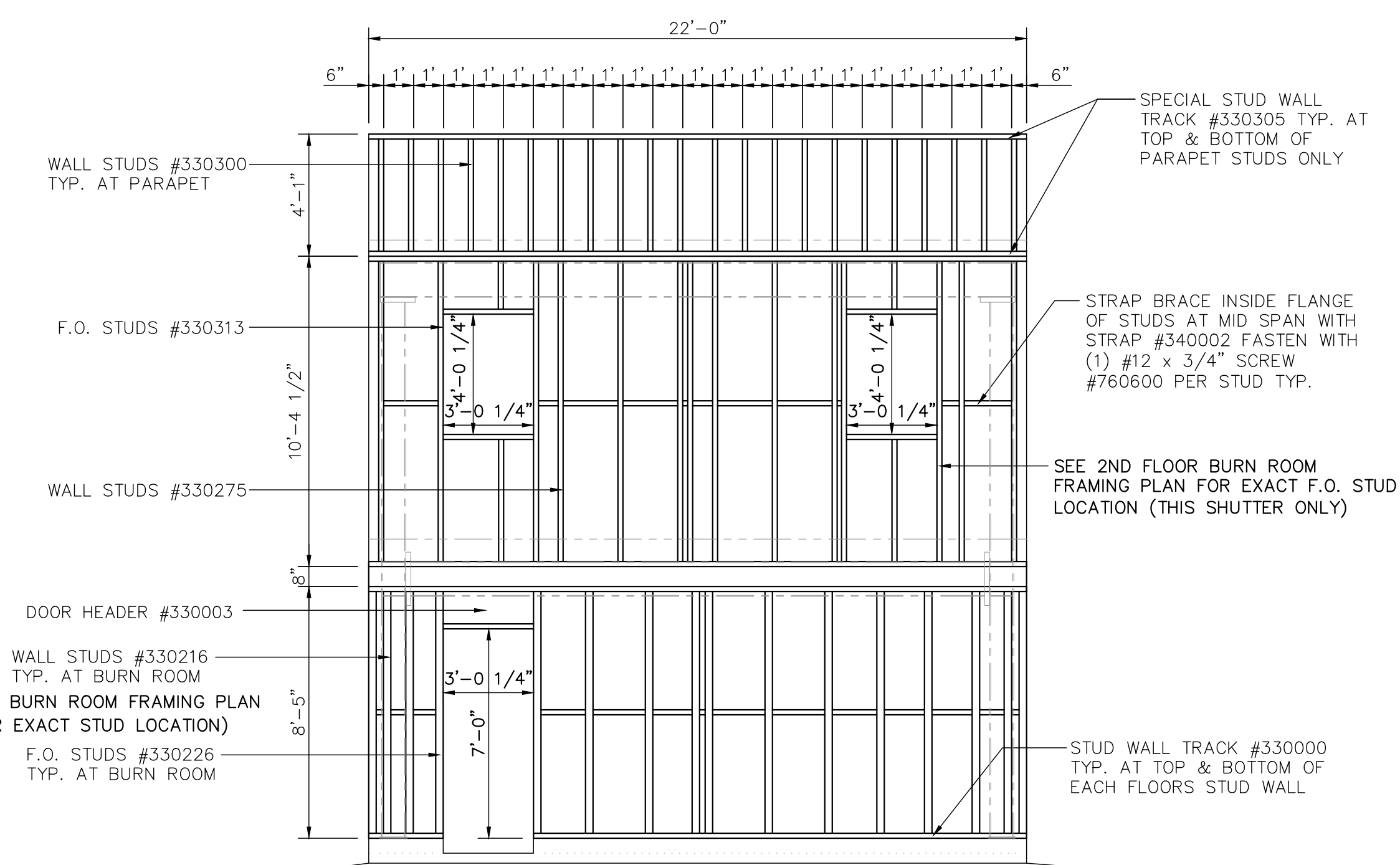
SOUTH END STUD WALL FRAMING ELEVATION

SCALE: 1/4"=1'-0"



COMMON STUD WALL FRAMING ELEVATION

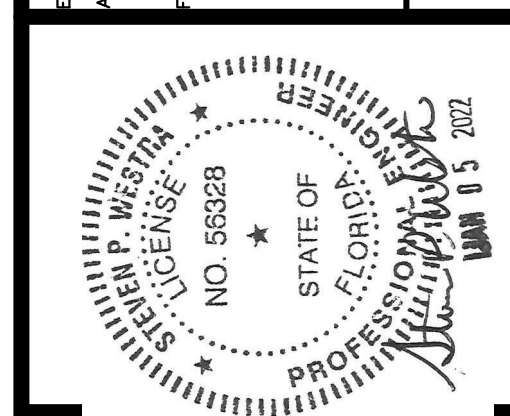
SCALE: 1/4"=1'-0"



NORTH END & ANNEX TRANSITION WALL FRAMING

SCALE: 1/4"=1'-0"

REVISIONS	by



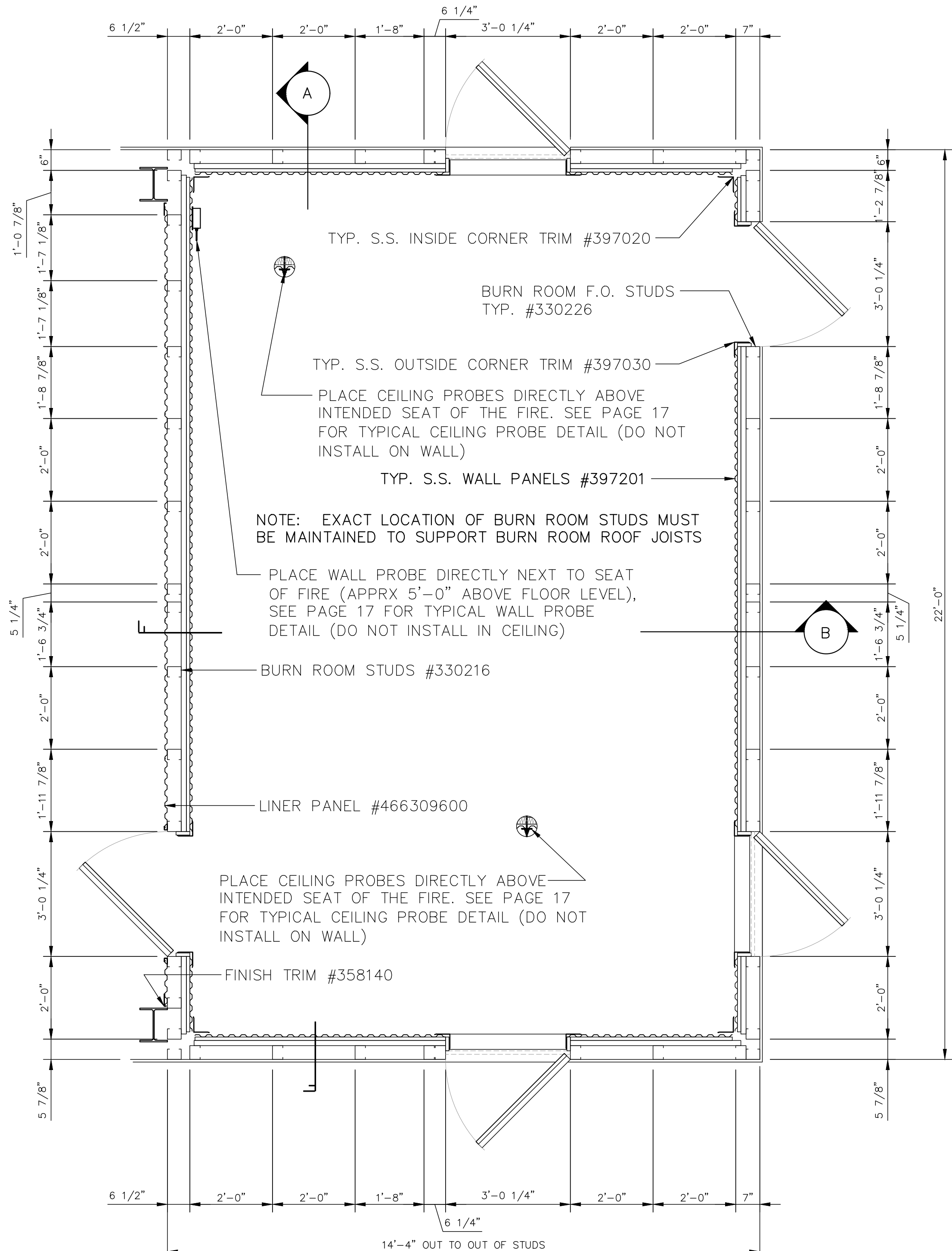
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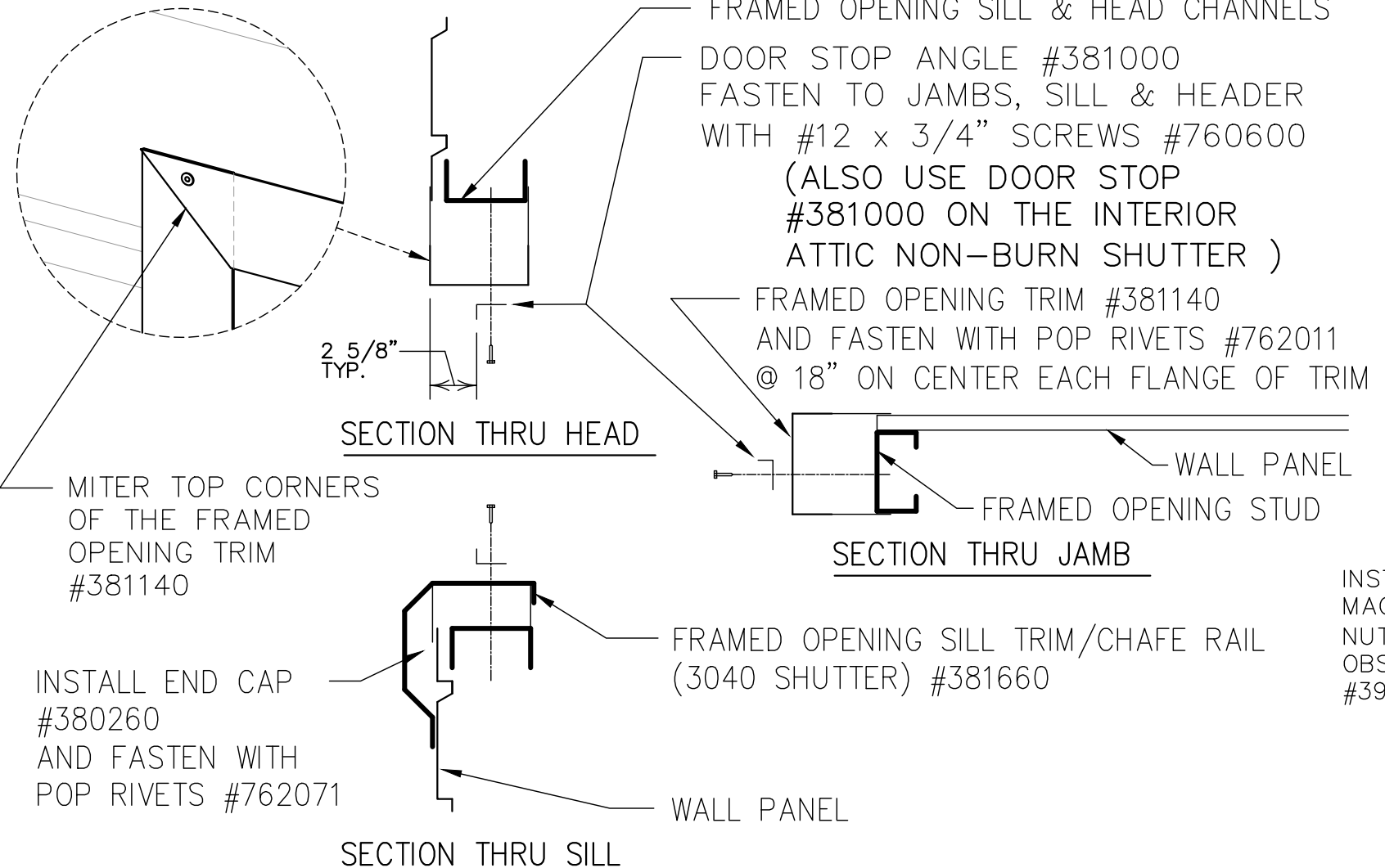
Job Description: **WESCO MODEL FF-4**
CUSTOM CRESTVIEW, FL
Sheet Title: STUD WALL ELEVATIONS & DETAILS CONT.

Date: DECEMBER 10, 2021
Drawn by: WDM
Checked by: SPW
Scale: SHOWN
Order No. FTE-796 / #244368
Sheet No. 14 of 25



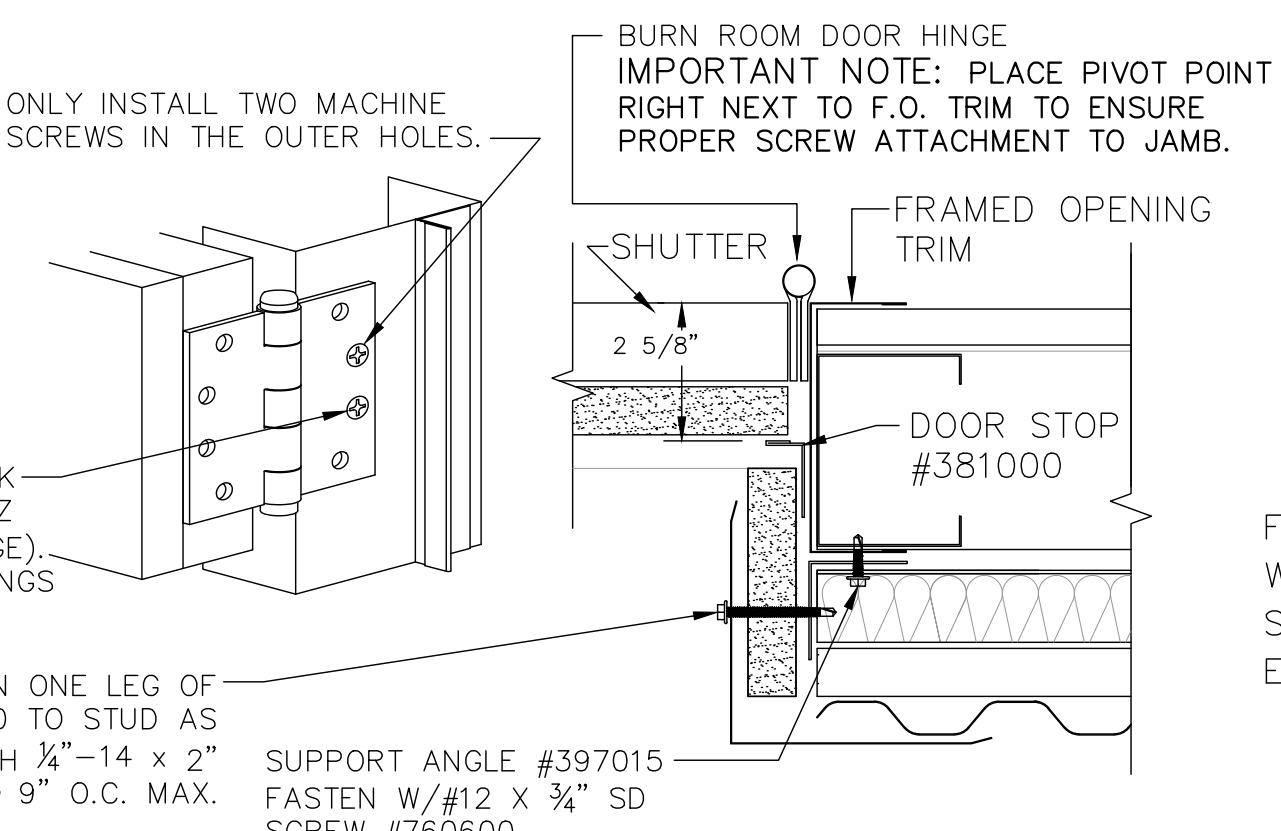
BURN ROOM PLAN & STUD LOCATIONS

SCALE: 1/2" = 1'-0"



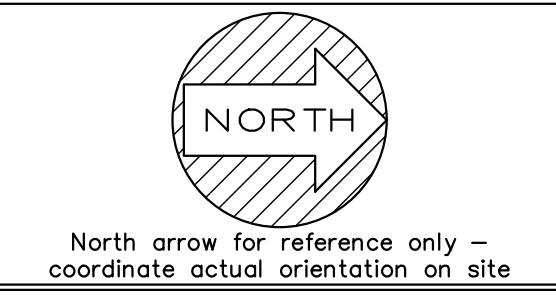
BURN RM. SHUTTER/SWING DOOR TRIM DETAILS

SCALE: 3/4" = 1'-0"



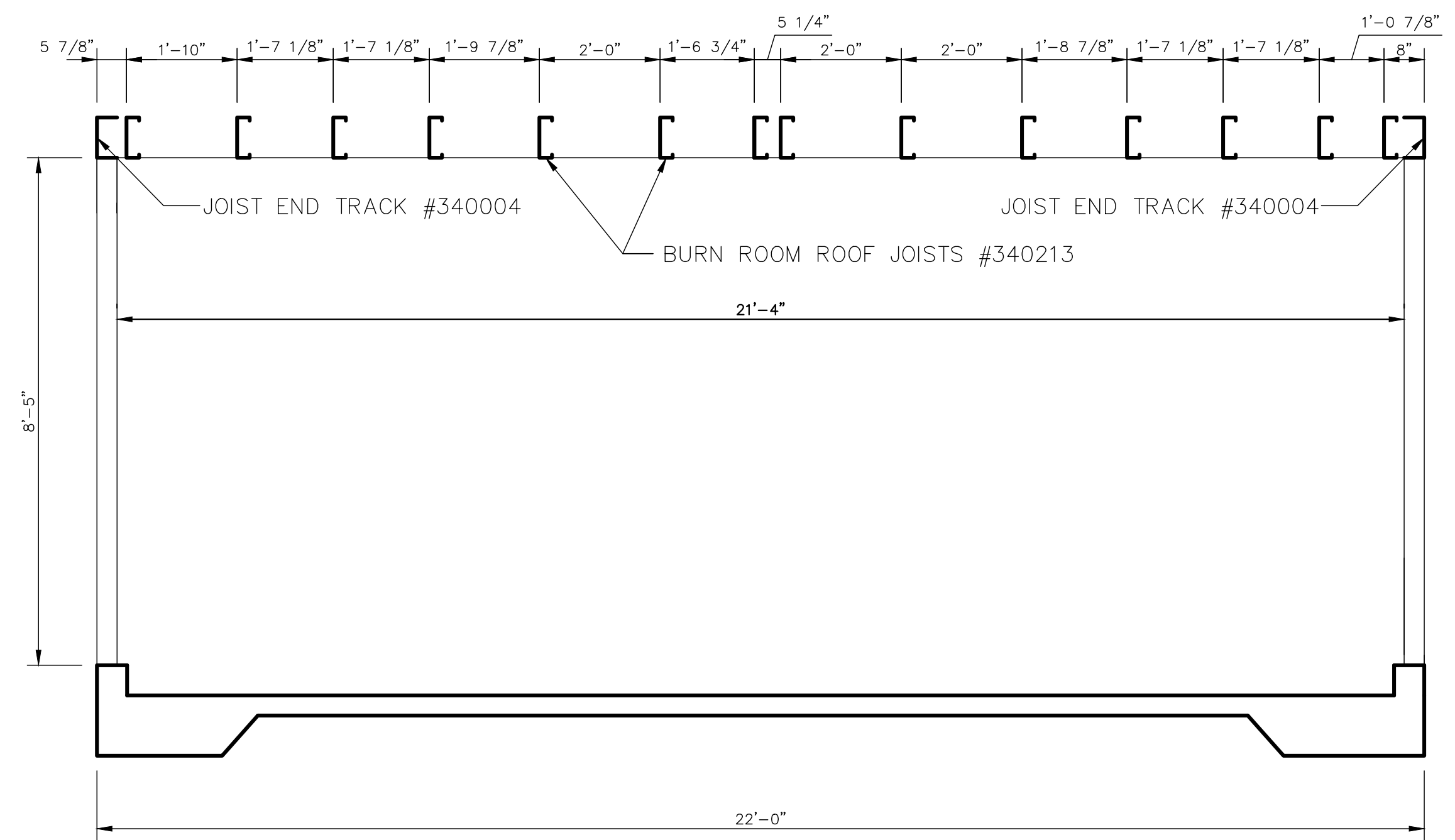
SECTION THRU. JAMB (BURN ROOM ONLY)

scale: 3" = 1'-0"



The airborne particulate generated by handling Westec insulation blanket requires the use of appropriate respiratory protection, pursuant to the requirements of OSHA standards 29 CFR 1910-134 and 29 CFR 1926-103, is recommended. Please review the Material Safety Data Sheet prior (located in erection manual) to working with Westec insulation for a complete description of all required protection.

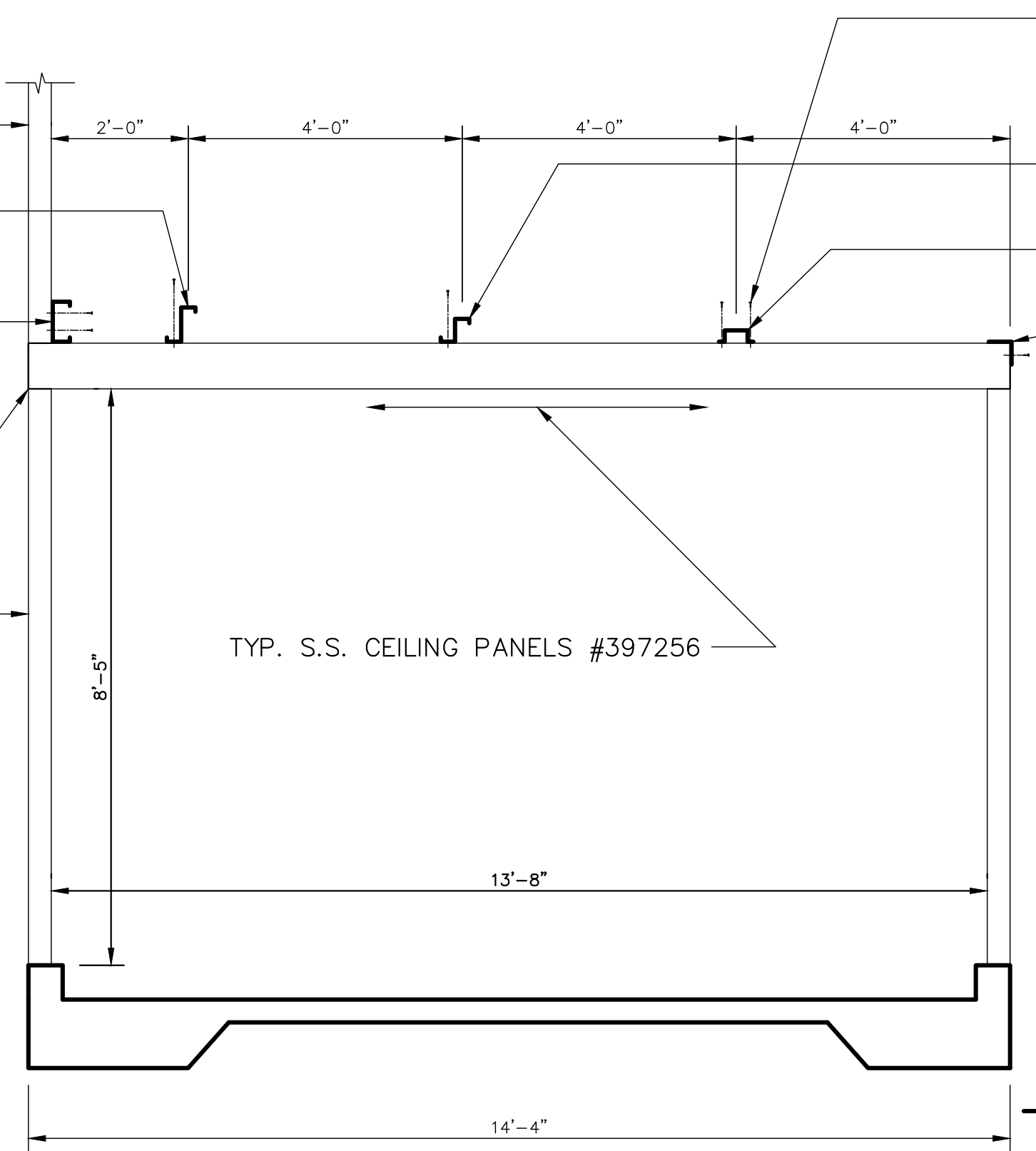
The airborne particulate generated by cutting or trimming Westemp panels requires the use of dust masks such as the 3M 8511 N-95 or equivalent. Please review the Material Safety Data Sheet prior (located in erection manual) to working with Westemp for a complete description of all required protection.



"A" SECTION THRU BURN ROOM

SCALE: 1/2" = 1'-0"

- STUDS #330214
4" x 2" 20 GA. "CEE"
- ROOF PANEL SUPPORT #340073
6" x 2 1/2" 16 GA. "ZEE"
- ROOF PANEL SUPPORT #340074
7" x 3" 16 GA. "CEE"
- FASTEN TO WALL STUDS WITH (2) #12 x 3/4" SCREWS #760600 AT EACH STUD
- JOIST END TRACKS #340004
- STUDS #330216
4" x 3" 20 GA. "CEE"



"B" SECTION THRU BURN ROOM ROOF

SCALE: 1/2" = 1'-0"

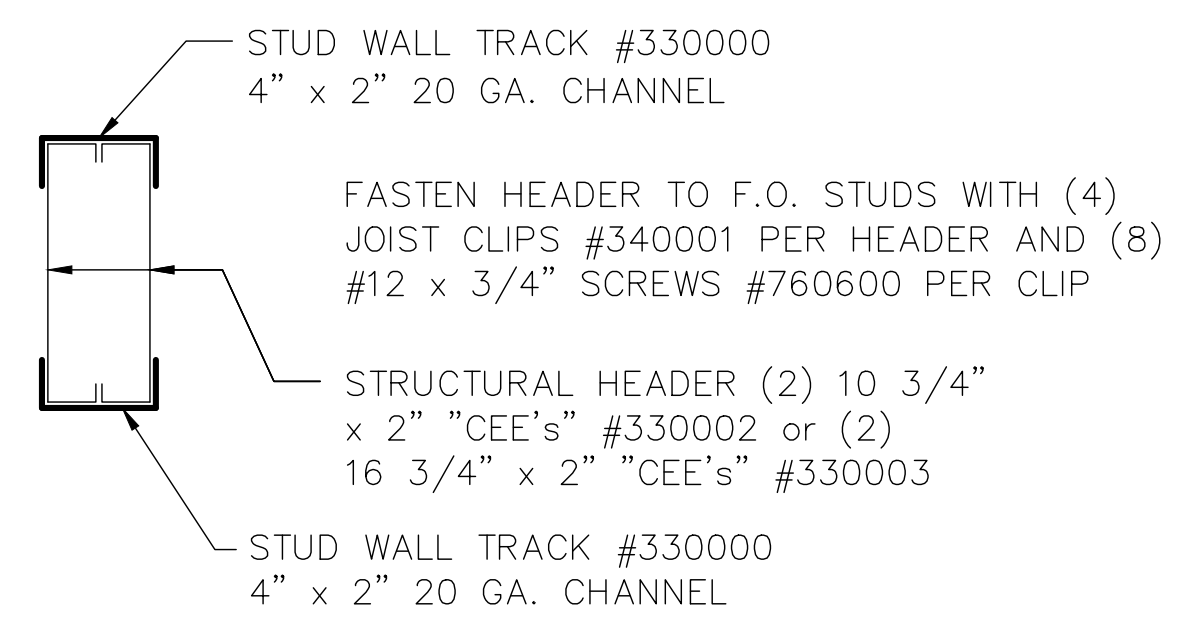
FASTEN STUDS TO TRACK WITH (4) #12 x 3/4" S.D. SCREWS #760600 AT EACH END OF EACH STUD

TYPICAL BURN ROOM STUD CONNECTION

scale: 1 1/2" = 1'-0"

TYPICAL BURN ROOM DOOR DETAIL

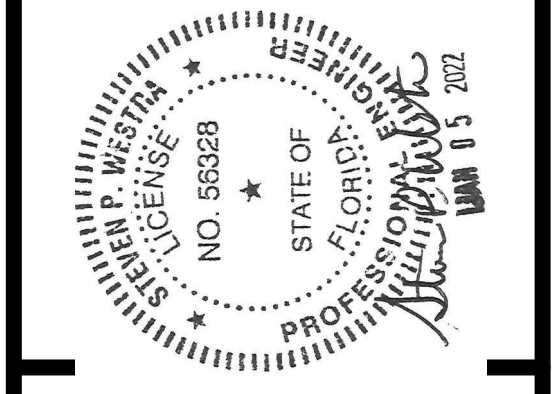
scale: 1 1/2" = 1'-0"



TYPICAL BURN ROOM HEADER

scale: 1 1/2" = 1'-0"

REVISIONS	by

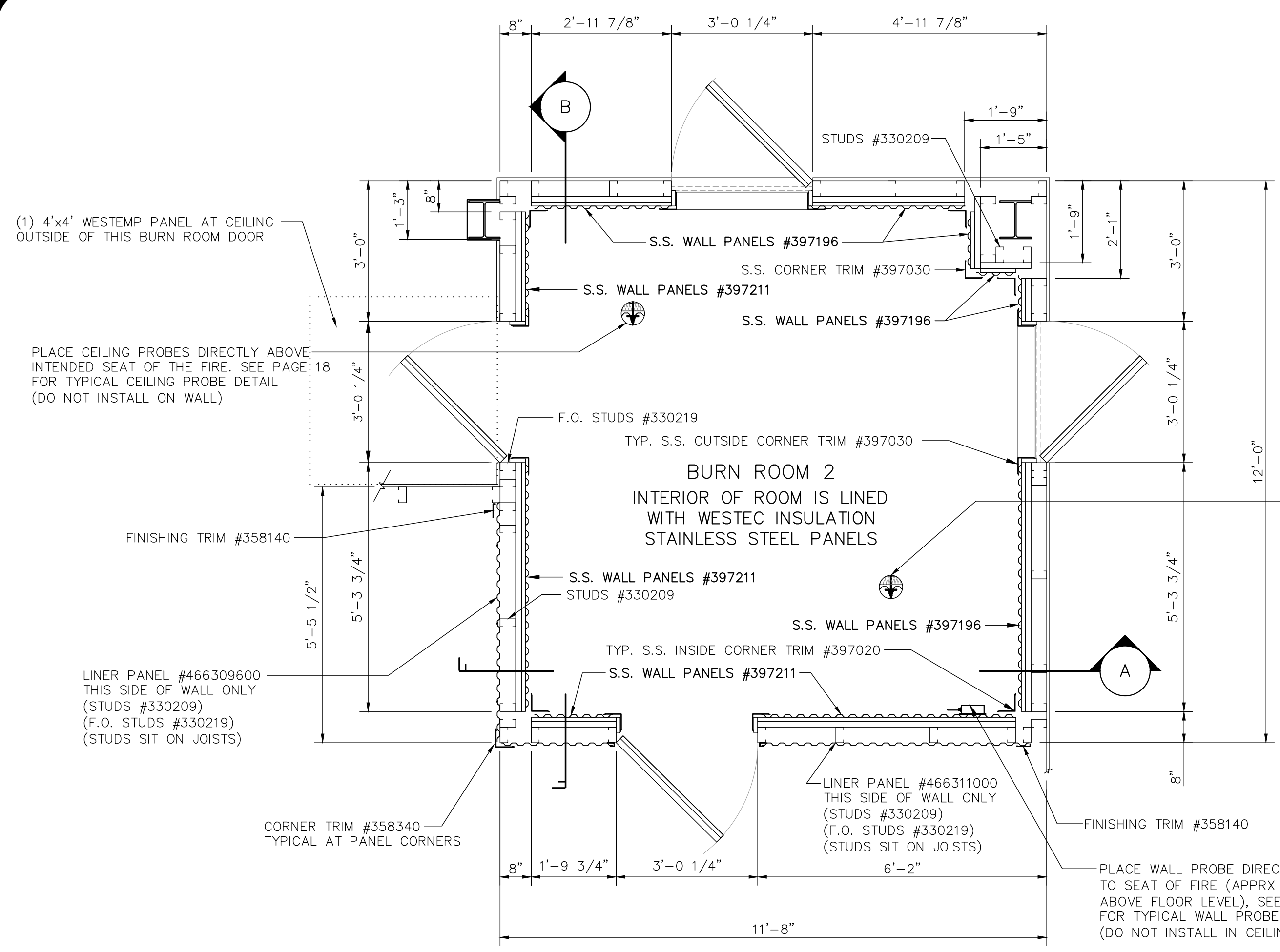


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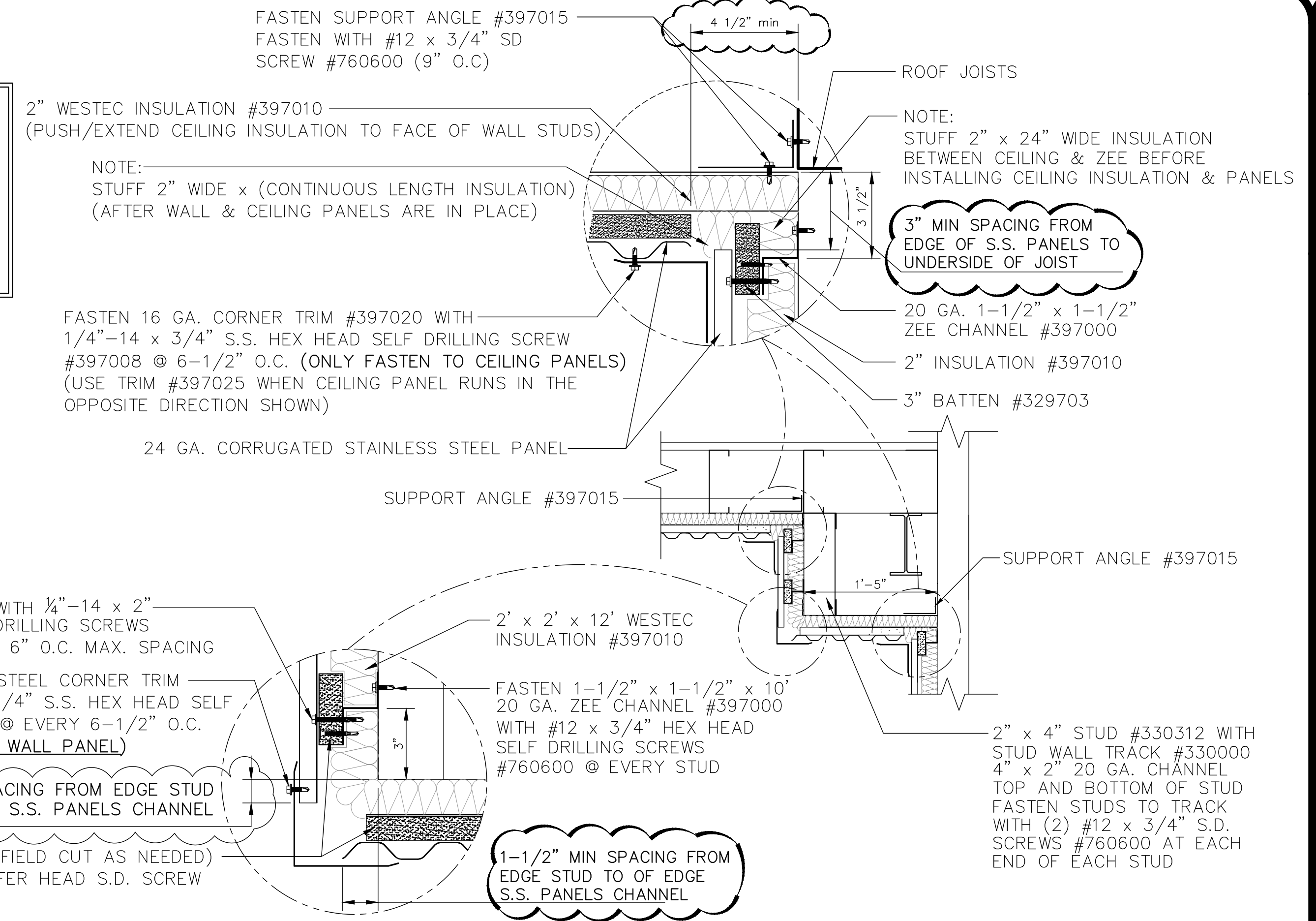
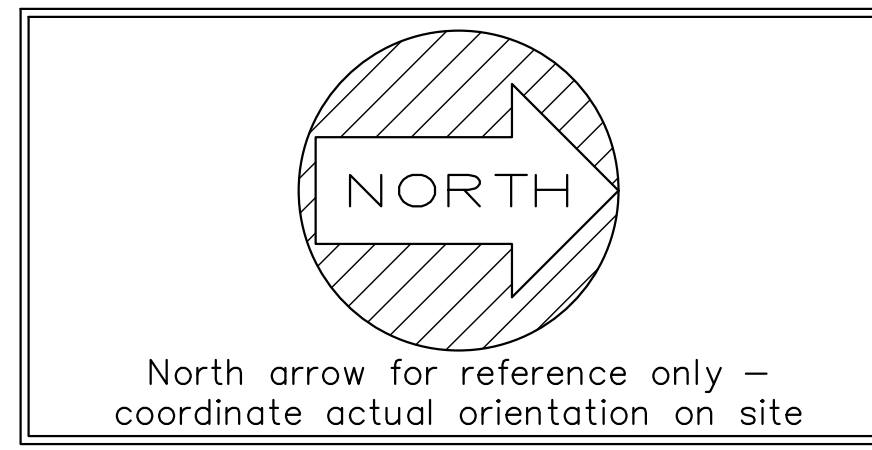
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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	ANNEX BURN ROOM DETAILS



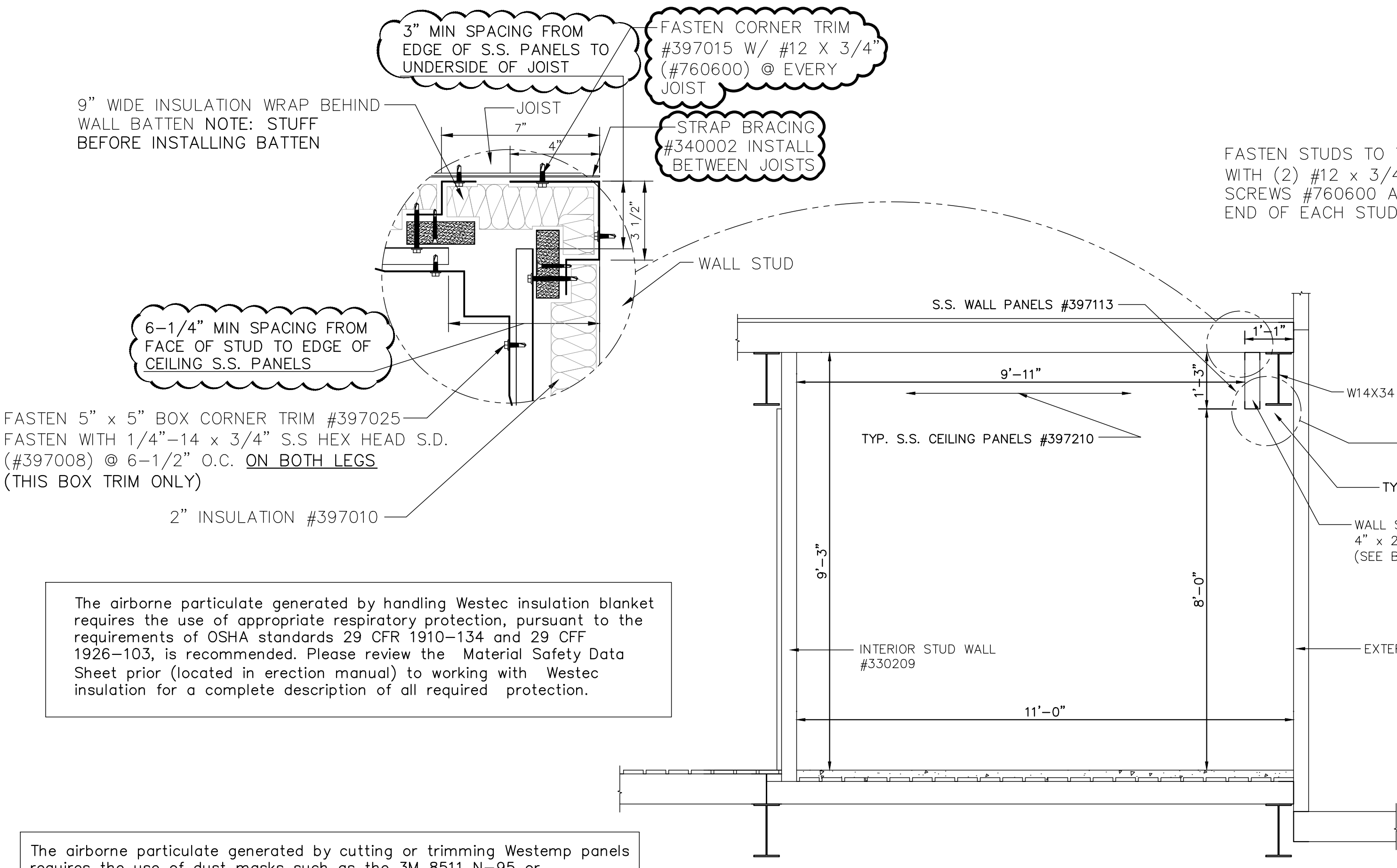
SECOND FLOOR BURN ROOM

scale: 1/2" = 1'-0"



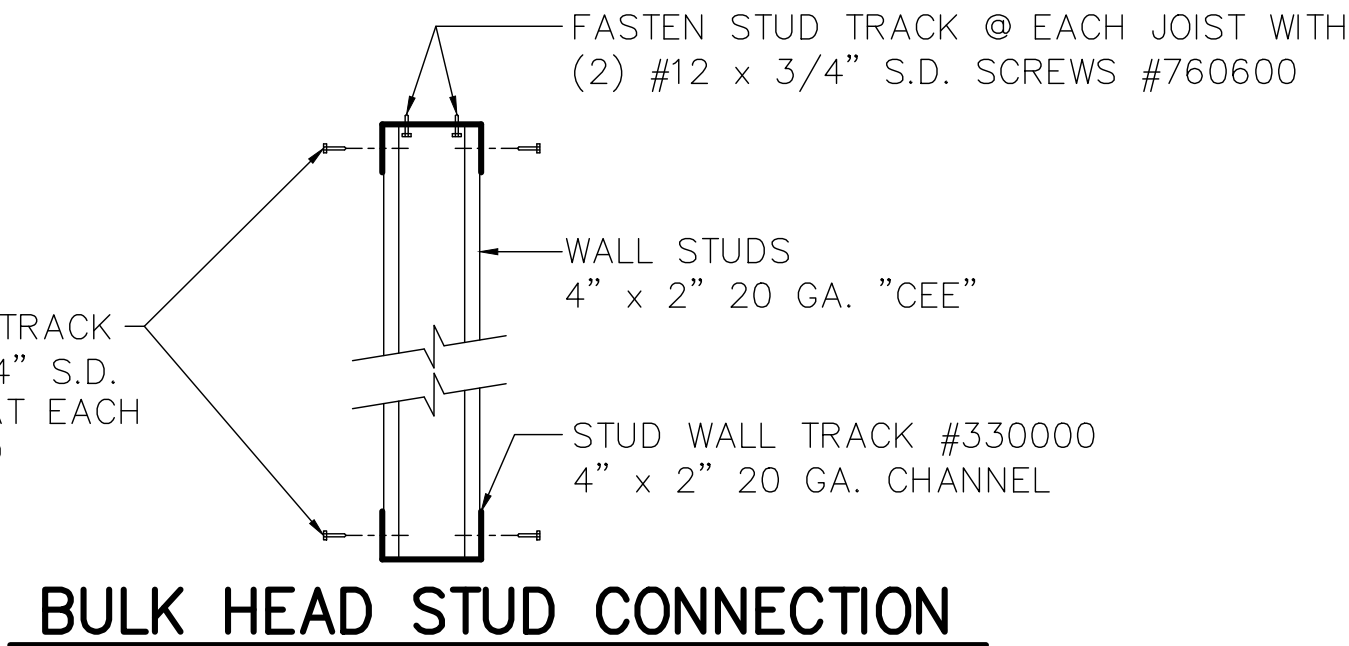
DETAIL "C" SECTION THROUGH BULK HEAD

scale: 1" = 1'-0"

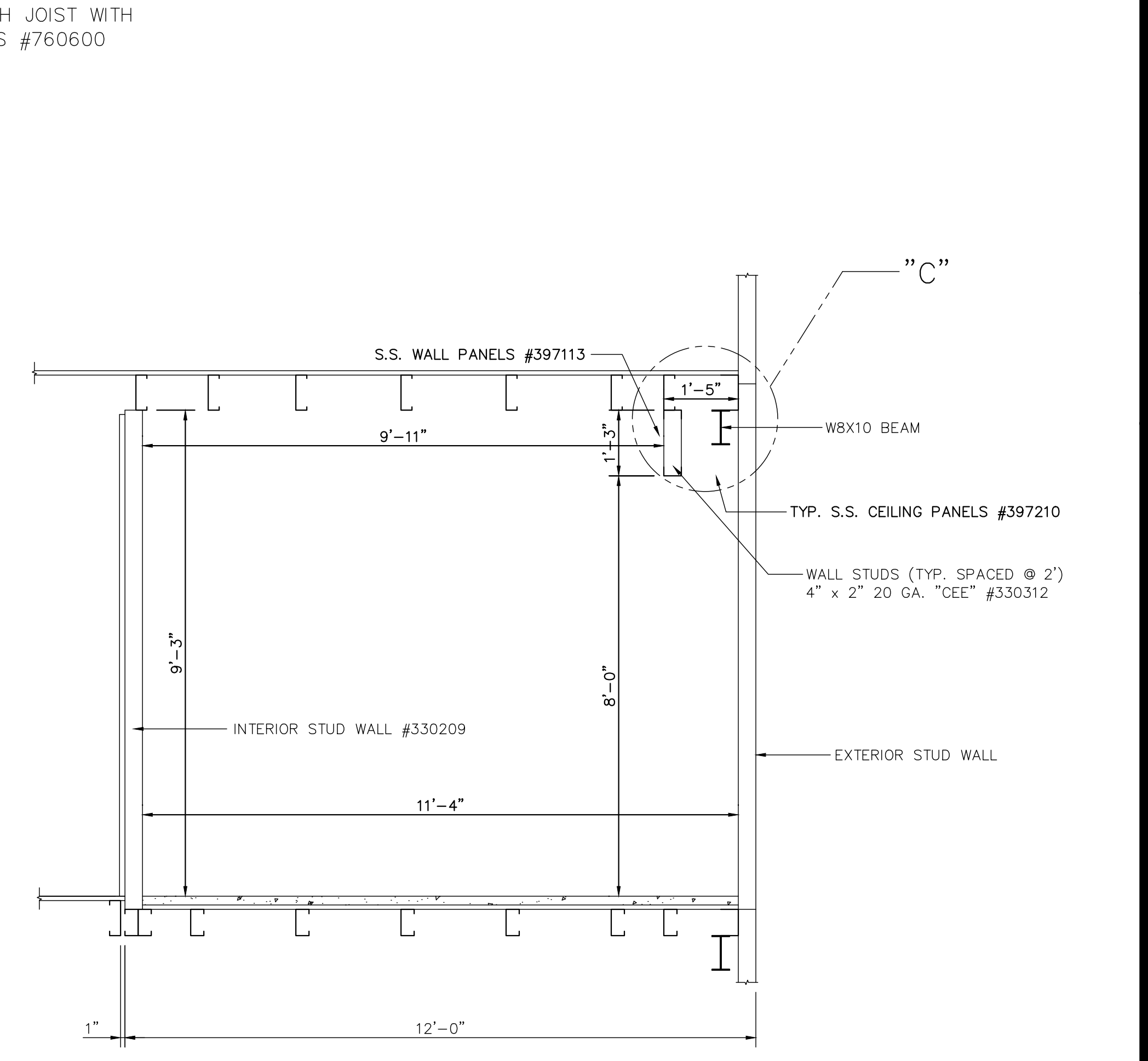


"A" SECTION THRU 2ND FLOOR BURN ROOM

scale: 1/2" = 1'-0"



BULK HEAD STUD CONNECTION



"B" SECTION THRU 2ND FLOOR BURN ROOM

scale: 1/2" = 1'-0"

The airborne particulate generated by handling Westec insulation blanket requires the use of appropriate respiratory protection, pursuant to the requirements of OSHA standards 29 CFR 1910-134 and 29 CFR 1926-103, is recommended. Please review the Material Safety Data Sheet prior (located in erection manual) to working with Westec insulation for a complete description of all required protection.

The airborne particulate generated by cutting or trimming Westemp panels requires the use of dust masks such as the 3M 8511 N-95 or equivalent. Please review the Material Safety Data Sheet prior (located in erection manual) to working with Westemp for a complete description of all required protection.

REVISIONS by

Engineer: Steven P. Westra
Address: 314 Wilburn Road, Suite 53590
800-929-3726
Florida License #: FE 95328

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STATE OF WISCONSIN
PROFESSIONAL ENGINEER
NO. 56328
DATE: 8.5.2022

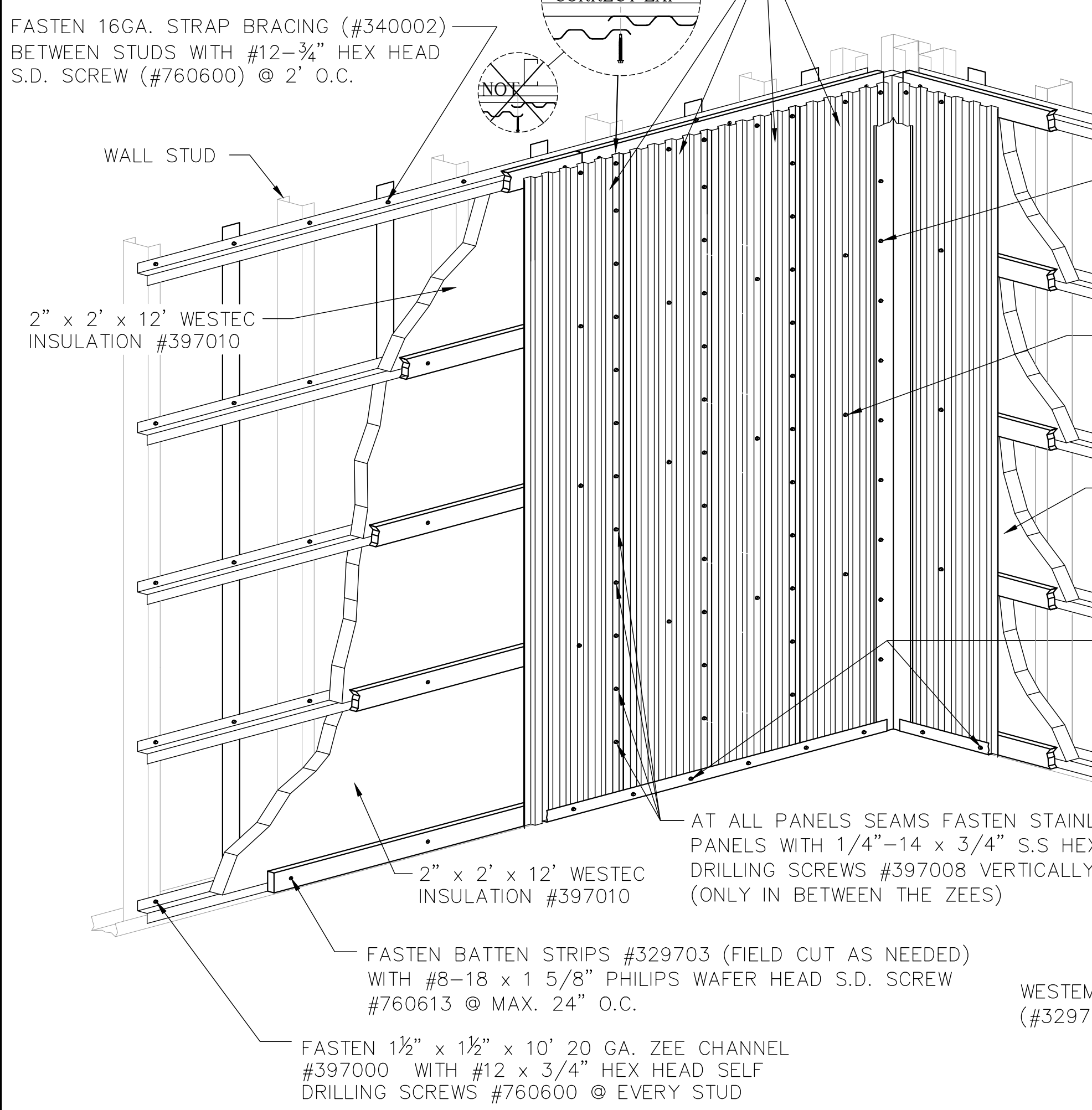
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Job Description: **WESCO MODEL FF-4**
CUSTOM
CRESTVIEW, FL
Sheet Title: BURN ROOM DETAILS CONT.

Date: DECEMBER 10, 2021
Drawn by: WDM
Checked by: SPW
Scale: SHOWN
Order No. FTE-796 / #244368
Sheet No.

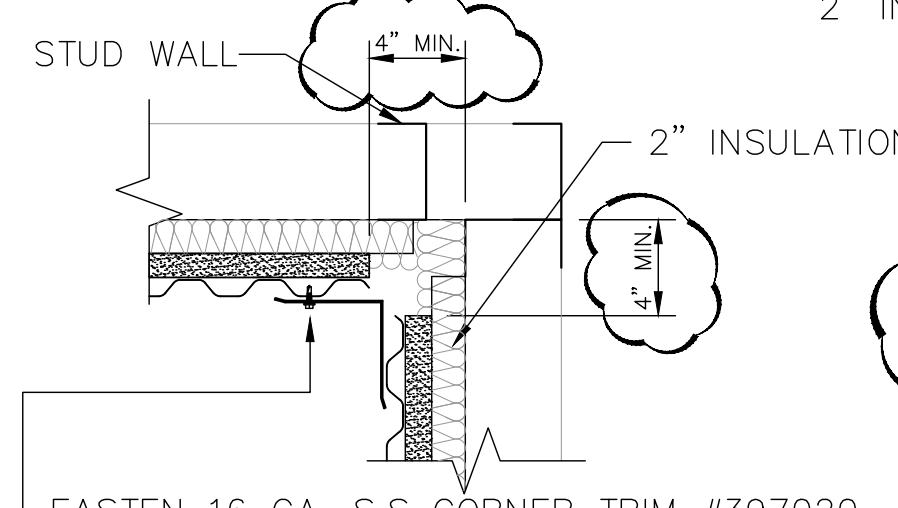
IMPORTANT: ONLY OVERLAP PANELS WITH RECESS TOWARDS BATTENS/ZEE'S AND FASTEN THROUGH THIS RECESS



ISOMERIC VIEW OF TYPICAL WALL & CORNER DETAIL

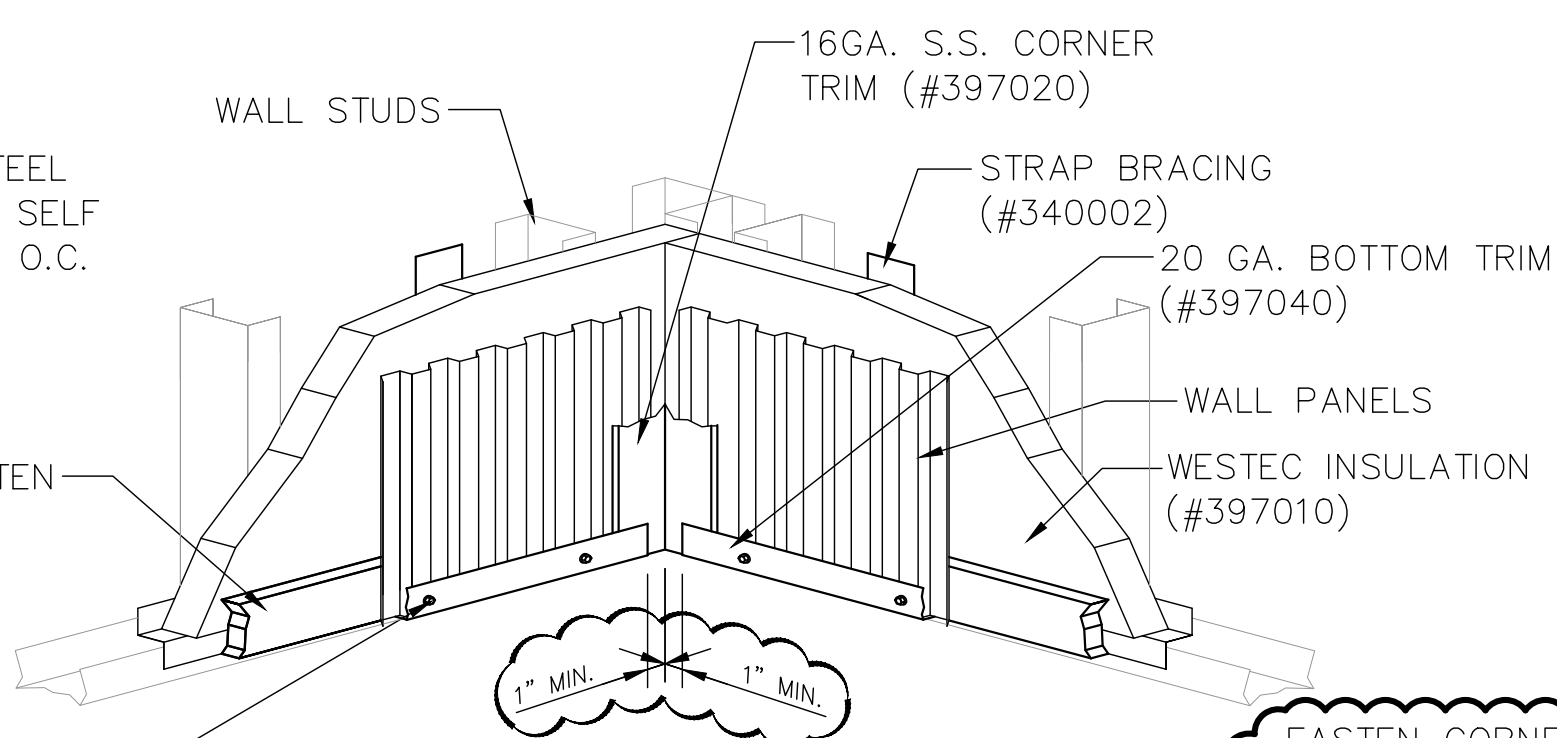
SCALE: 3/4" = 1'-0"

IMPORTANT NOTES:
 1. CEILING PANELS FASTEN EXACTLY THE SAME AS WALL PANELS.
 2. **ALL MIN GAPS SHOWN ON THIS PAGE MUST BE HELD TO ENSURE PANELS CAN EXPAND & CONTRACT TO PREVENT PREMATURE DAMAGE.**
 3. ZEE CHANNEL AND STRAP BRACING SHOULD ONLY BE FASTENED WITH **NON** STAINLESS STEEL SCREWS (#760600). ONLY SCREWS DIRECTLY EXPOSED TO DIRECT FLAMES SHOULD BE STAINLESS STEEL (#397008 OR 397005)



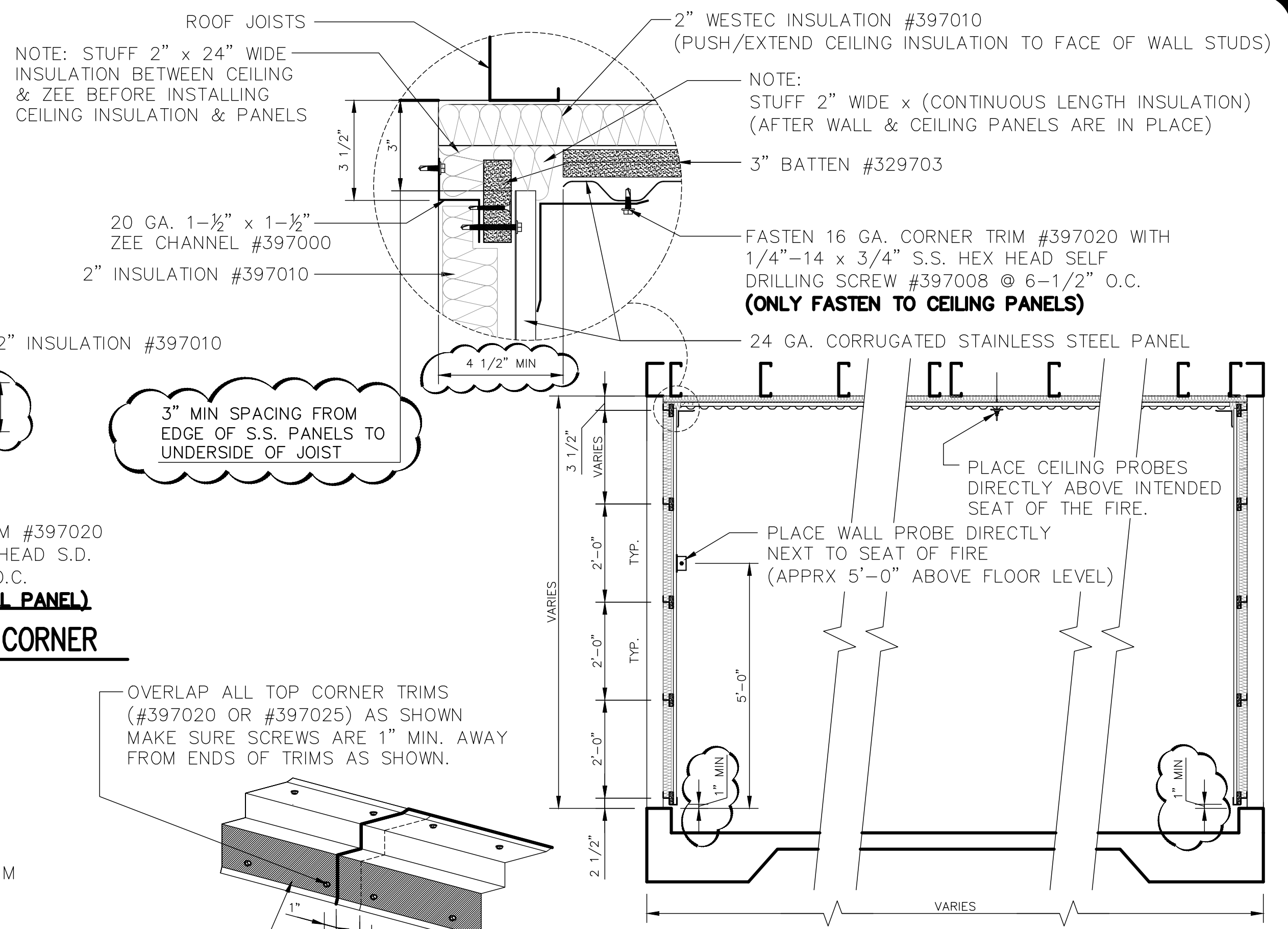
PLAN VIEW OF TYPICAL WALL CORNER

SCALE: 3" = 1'-0"



TYPICAL WALL BOTTOM CORNER DETAILS

SCALE: 3" = 1'-0"

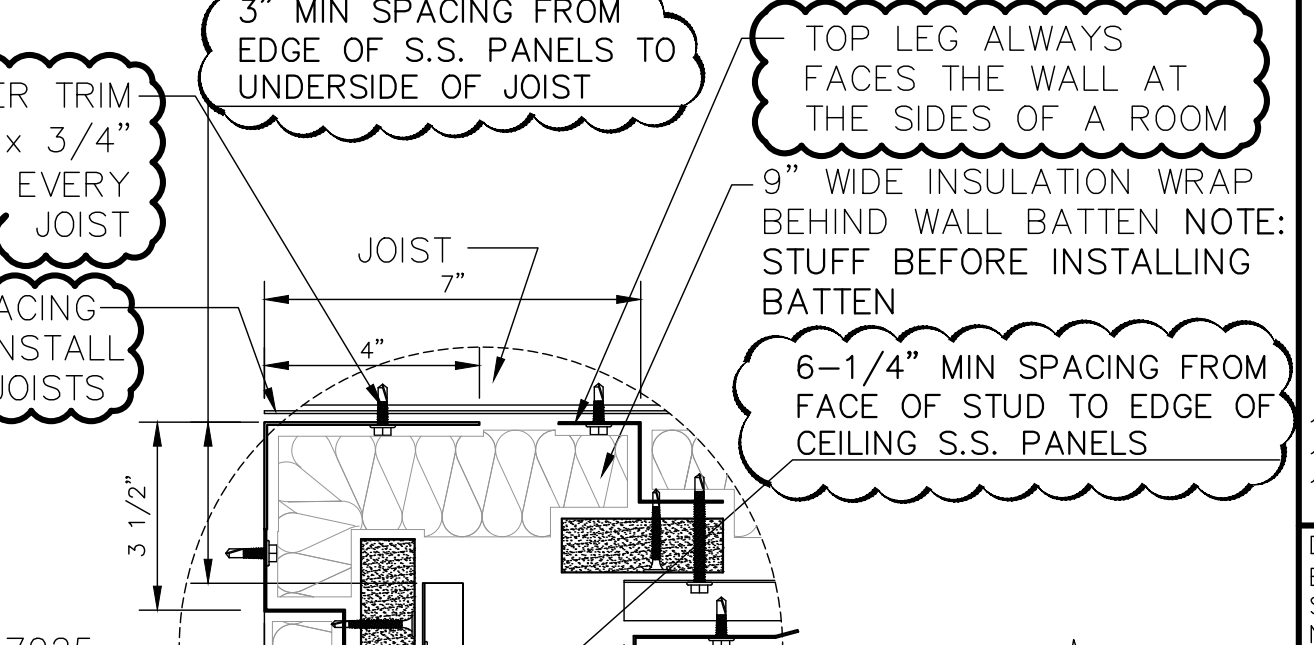


"A" SECTION THRU BURN ROOM

SCALE: 1/2" = 1'-0"

TYPICAL TRIM OVERLAP DETAIL

SCALE: 1 1/2" = 1'-0"



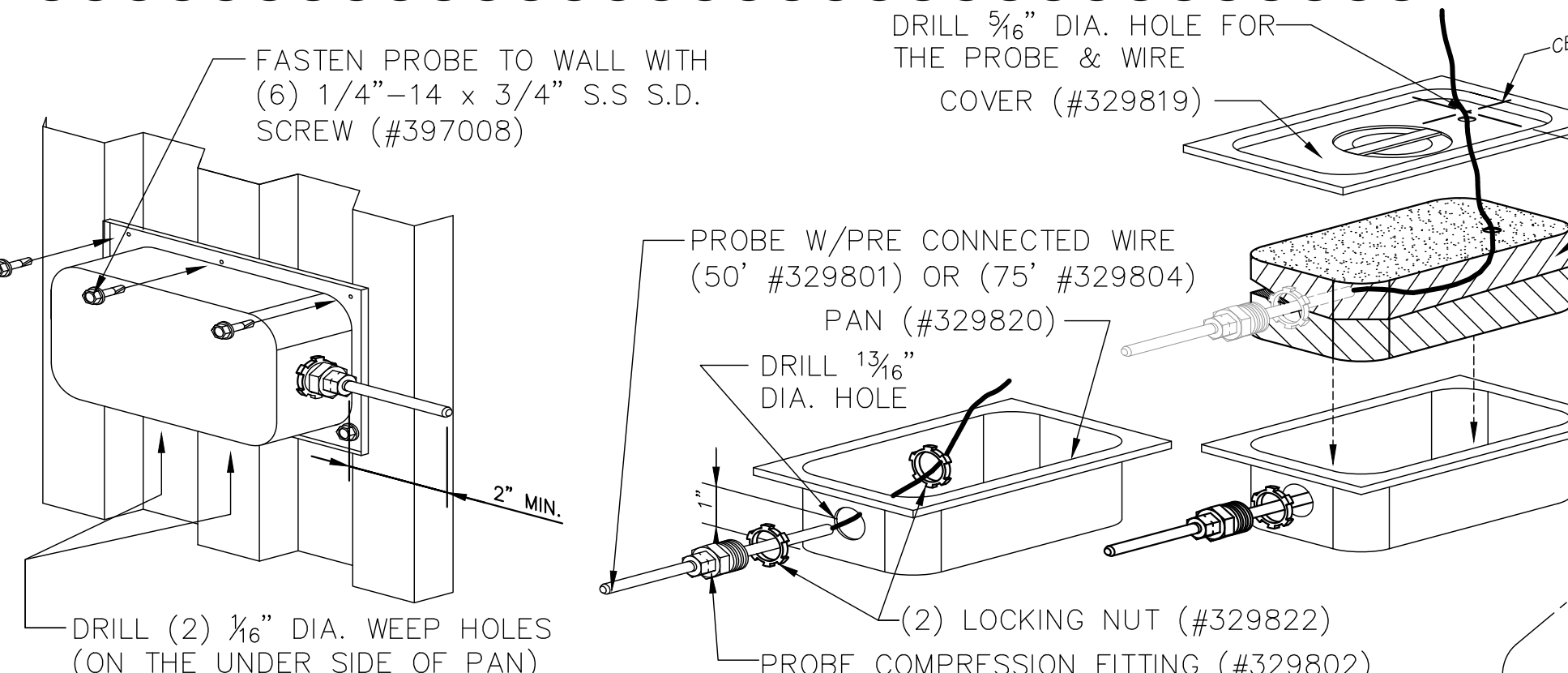
TYPICAL WALL TOP CORNER DETAILS

SCALE: 3" = 1'-0"

INSTALLATION PROCEDURE

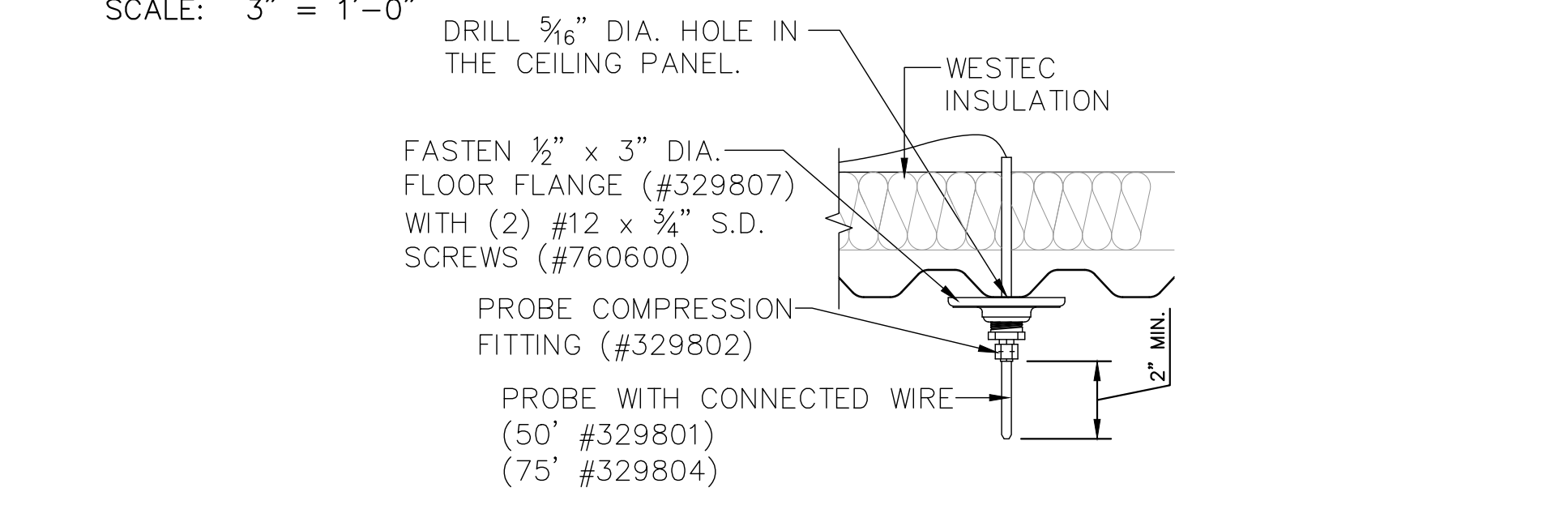
1. INSTALL BURN SUPPORT ANGLE (#397015) AT THE CEILING/WALL CORNER BUT ONLY IN CORNERS WHERE A BOX TRIM WILL BE LOCATED. (SEE SECTION "B" UPPER DETAILS)
 2. INSTALL ALL (ZEE) CHANNELS FACING IN THE SAME DIRECTION. EXCEPT THE (ZEE) CHANNELS RIGHT NEXT TO THE WALLS. TOP LEG NEEDS TO FACE THE WALL (SEE DETAILS)
 3. INSTALL ALL STRAP BRACING @ 2'-0" O.C. MAX. TO SUPPORT INSULATION ON WALLS & CEILING
 4. INSTALL/RUN ALL THERMOCOUPLE WIRES.
 5. INSTALL ALL INSULATION WALLS & CEILINGS.
 6. INSTALL ALL 3" WESTEMP BATTENS.
 7. INSTALL ALL WALL & CEILING PANELS.
 8. INSTALL ALL 16 GA. VERTICAL INSIDE CORNER TRIMS.
 9. INSTALL ALL BOTTOM TRIM. (SEE DETAILS)
 10. INSTALL ALL 16 GA. HORIZONTAL INSIDE CORNER TRIMS. (SEE DETAILS)
 11. INSTALL ALL 20 GA. HORIZONTAL INSIDE BOX CORNER TRIM. (SEE DETAILS)
 12. INSTALL ALL 16 GA. OUTSIDE CORNER TRIM AROUND DOOR & WINDOWS.
- DAMAGE TO THE WESTEC SYSTEM CAUSED BY: THE MOUNTING OR PENETRATION OF EQUIPMENT (NOT SUPPLIED BY FFI) WHICH IMPEDES THE MOVEMENT OF THE LINER SYSTEM, OR THE FAILURE TO MONITOR TEMPERATURES AT THE BURN ROOM CEILING, IS NOT COVERED BY THE LIMITED WARRANTY - SEE GUIDELINES IN ERECTION MANUAL.

IMPORTANT NOTE:
 SANDWICH PROBE WITH 1" WESTEC INSULATION (PEEL 2" INSULATION #397010 IN HALF) HALF OF INSULATION ON BOTTOM OF PAN, PLACE WIRE AND COVER EXPOSED WIRE TOP WITH REMAINING HALF OF INSULATION THEN PLACE COVER.



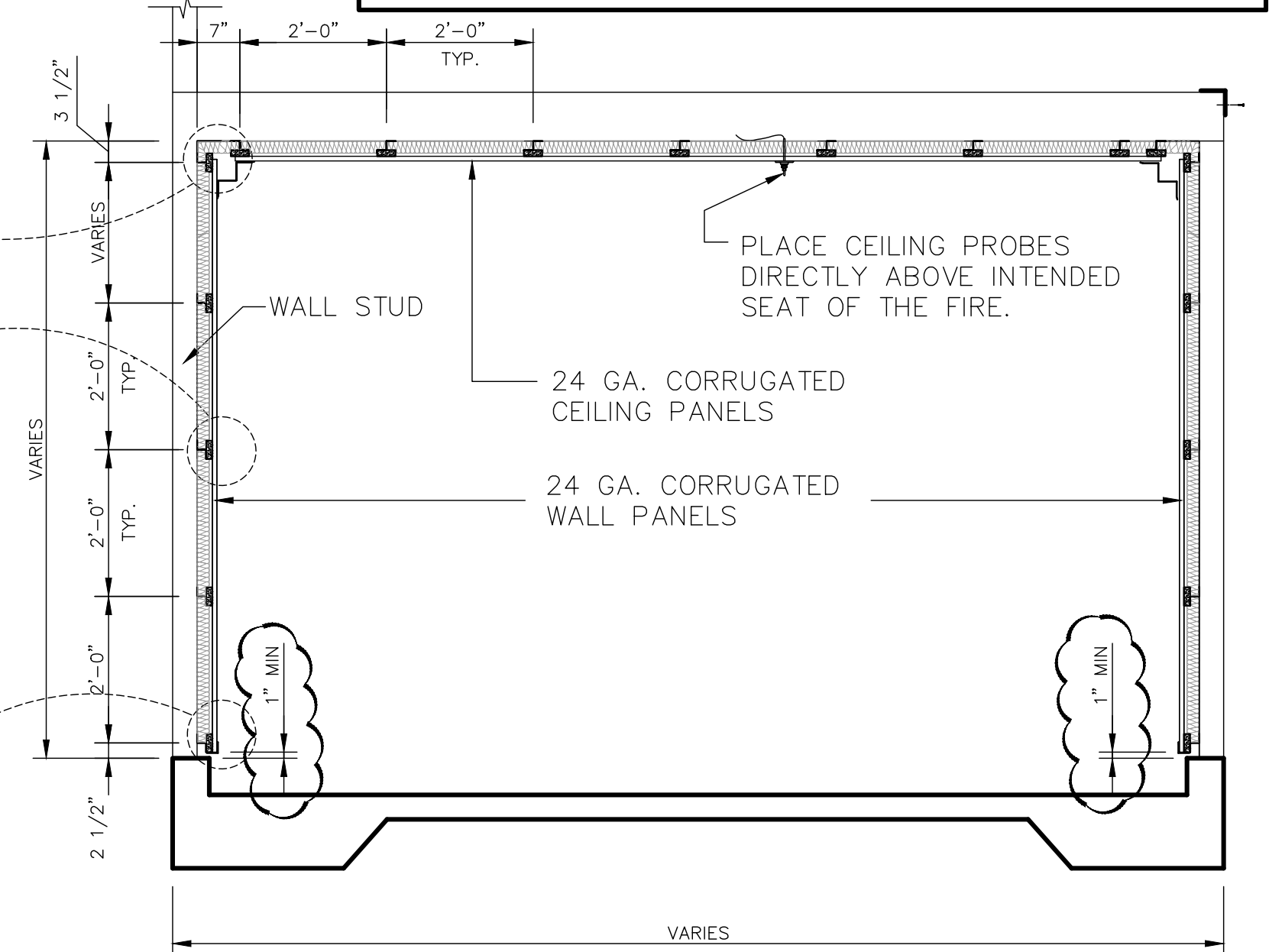
TYPICAL WALL PROBE DETAIL (DO NOT INSTALL IN CEILING)

SCALE: 3" = 1'-0"



TYPICAL CEILING PROBE DETAIL (DO NOT INSTALL ON WALL)

SCALE: 3" = 1'-0"



"B" SECTION THRU BURN ROOM ROOF

SCALE: 1/2" = 1'-0"

REVISIONS by

Engineer: Steven P. Westro
 Address: 314 Wilburn Road
 Phone: 800-329-7726
 Florida License #: FE 98328

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 NO. 56328
 EXPIRES 8/5/2022

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WESCO MODEL FF-4
 CUSTOM
 CRESTVIEW, FL

Job Description
 Sheet Title
 WESCO BURN ROOM DETAILS

Date
 DECEMBER 10, 2021

Drawn by
 WDM

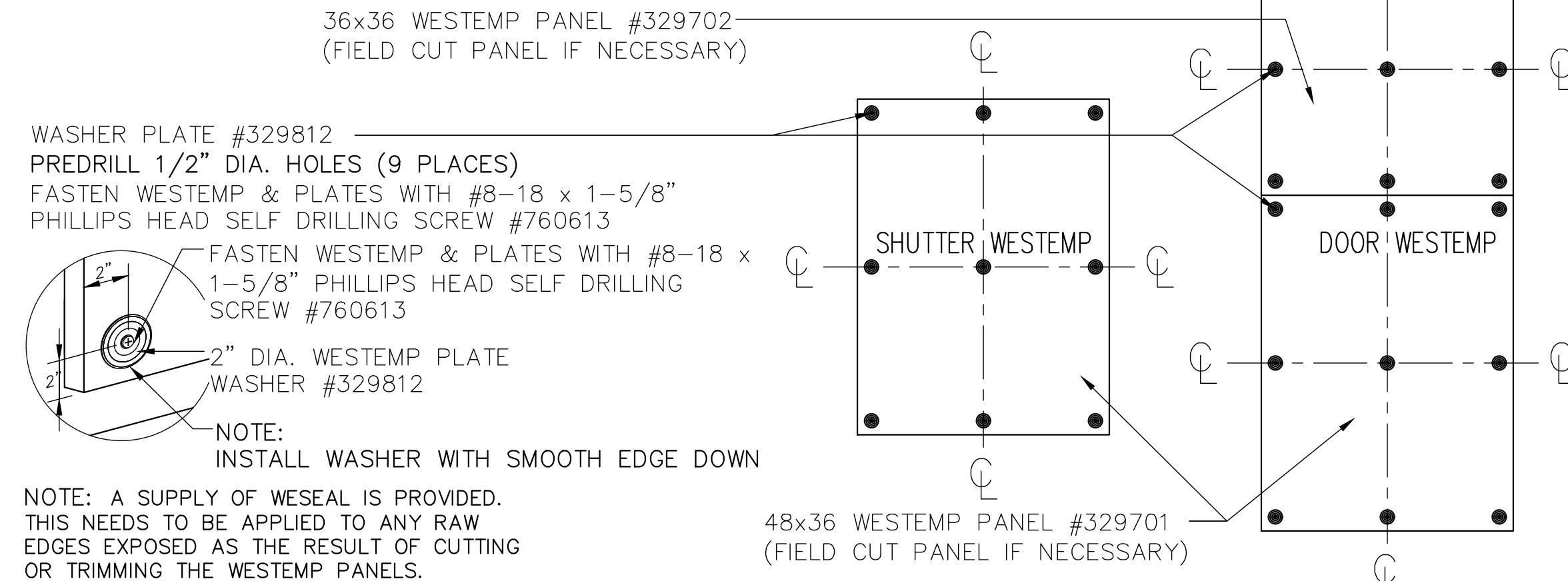
Checked by
 SPW

Scale
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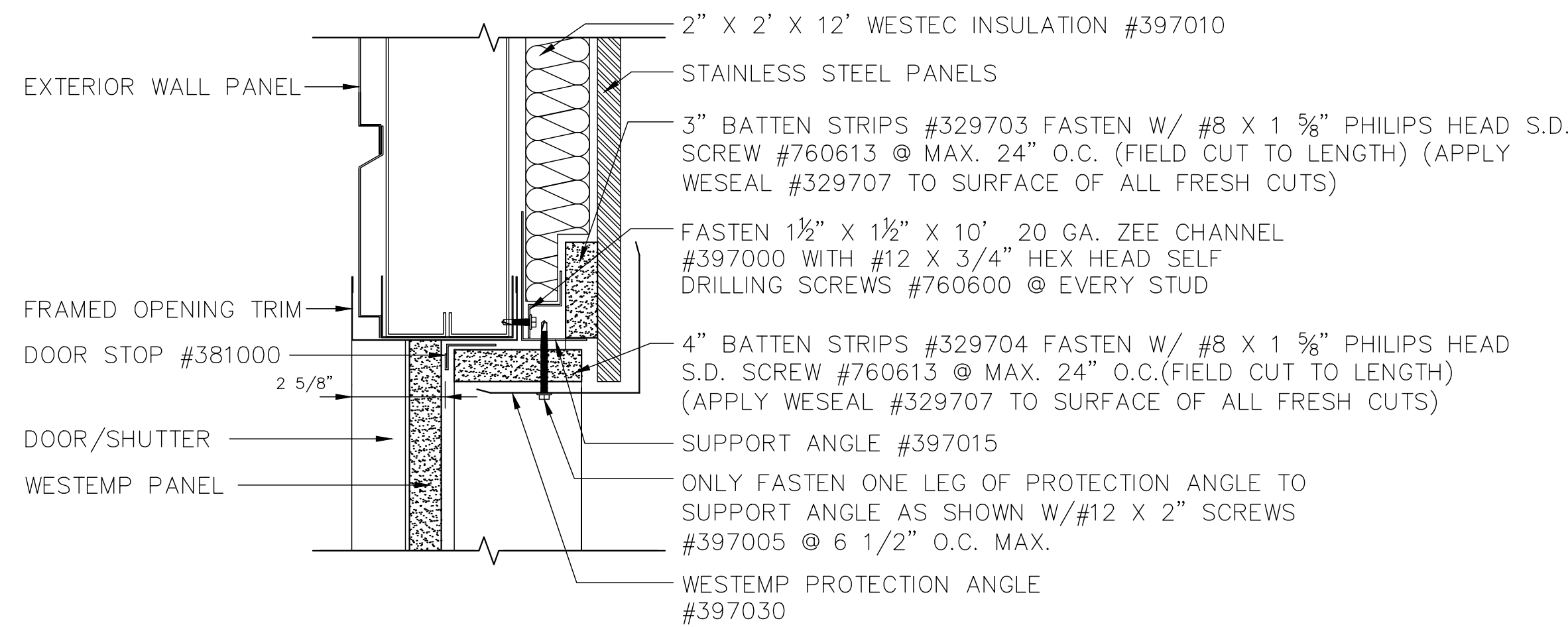
Order No.
 FTE-796 / #244368

Sheet No.

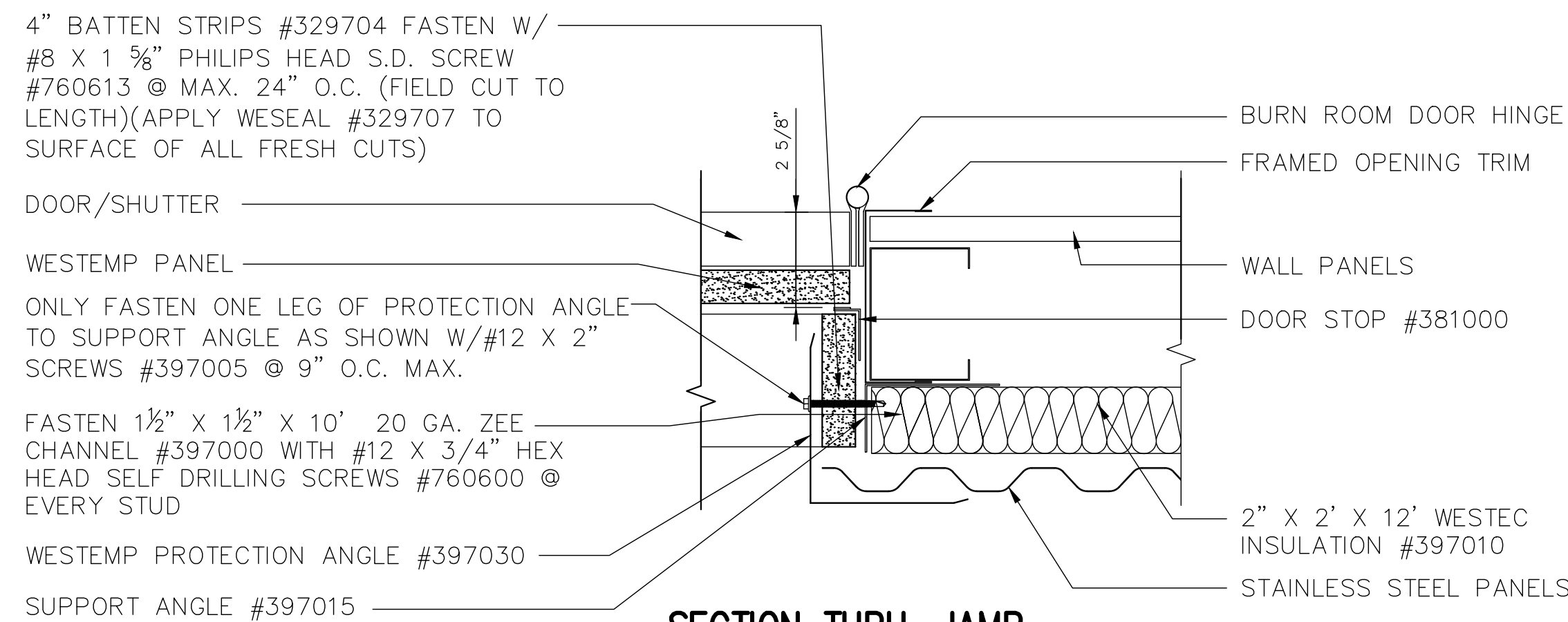
NOTE: WHEN FASTENING THE WESTEMP INSULATION PANEL, **DO NOT OVER TIGHTEN THE SCREWS**. A SLIGHT MOVEMENT OF THE PLATE WASHER UNDER THE SCREW HEAD IS DESIRABLE.



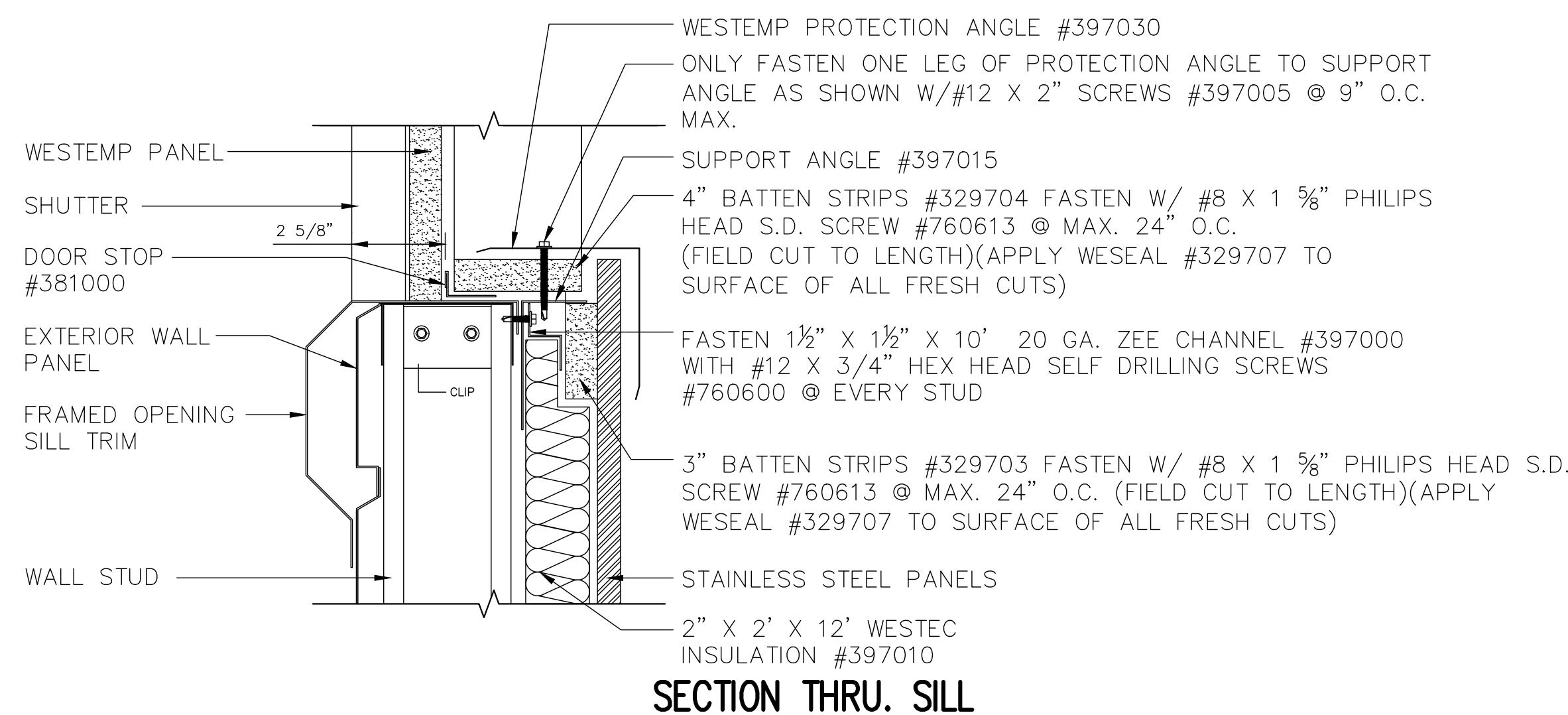
WESTEMP INSTALLATION ON SHUTTERS AND DOORS



SECTION THRU. HEADER (DOOR & WINDOWS)



SECTION THRU. JAMB (DOOR & WINDOWS)

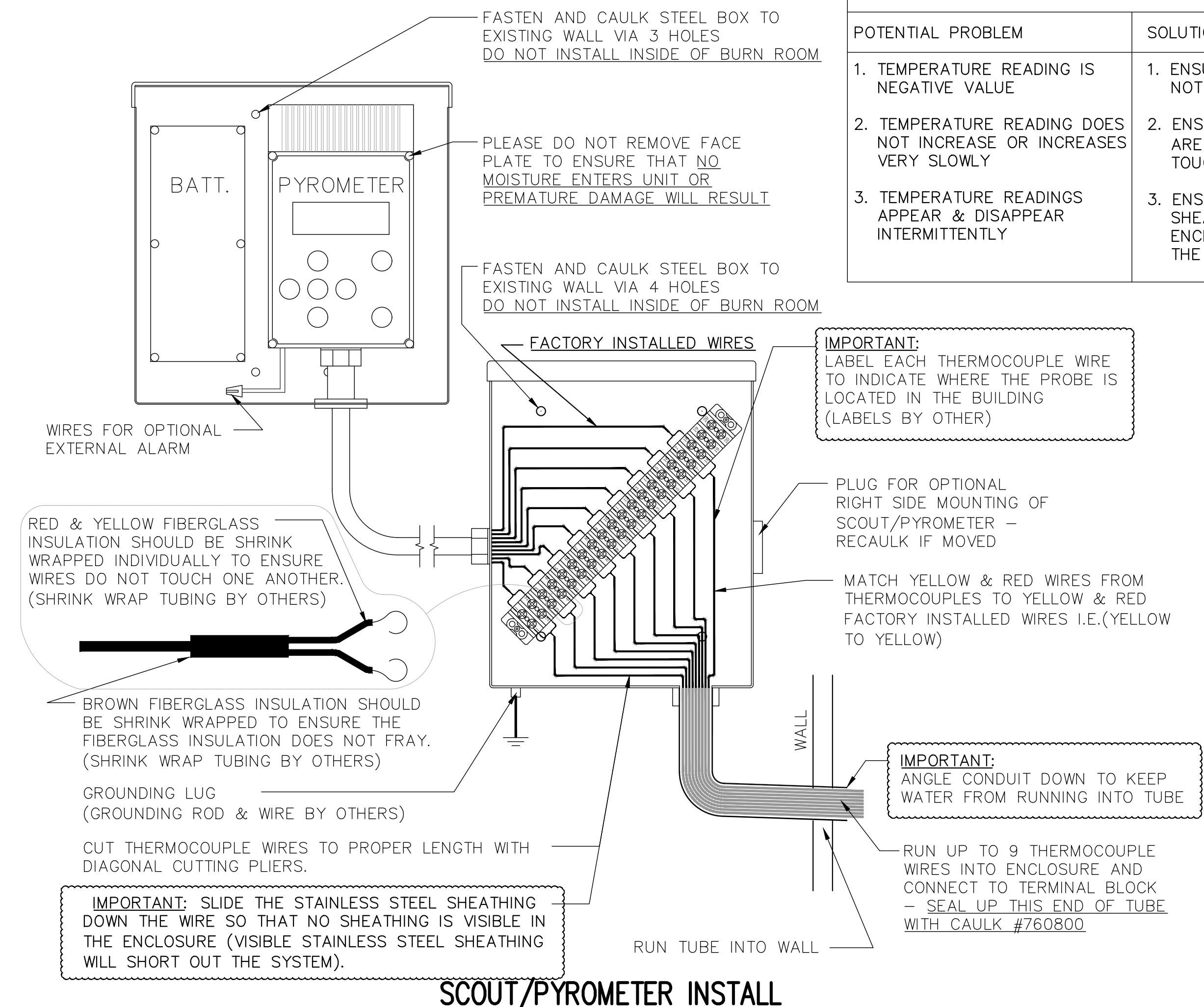


SECTION THRU. SILL

NOTE: INSTALL PROBE WIRES BEHIND WESTEC INSULATION (DO NOT EXPOSE WIRE TO OPEN HEAT AND FLAMES) ALSO DO NOT INSTALL PYROMETER INSIDE OF BURN ROOM

TROUBLE SHOOTING GUIDE — WHEN TESTING/HEATING THERMOCOUPLES (AFTER INSTALLATION; TEST INDIVIDUAL THERMOCOUPLES BY HEATING EACH ONE WITH A LIGHTER OR HEAT GUN & OBSERVING EACH READING ON THE PYROMETER)

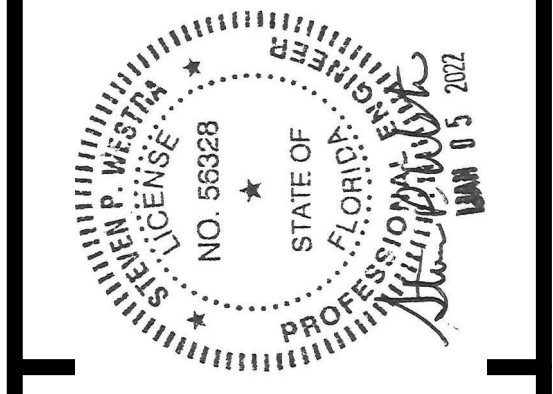
POTENTIAL PROBLEM	SOLUTION
1. TEMPERATURE READING IS NEGATIVE VALUE	1. ENSURE RED & YELLOW WIRES ARE NOT REVERSED
2. TEMPERATURE READING DOES NOT INCREASE OR INCREASES VERY SLOWLY	2. ENSURE THAT RED & YELLOW WIRES ARE NOT CROSSED AND/OR NOT TOUCHING EACH OTHER
3. TEMPERATURE READINGS APPEAR & DISAPPEAR INTERMITTENTLY	3. ENSURE THAT NO STAINLESS STEEL SHEATHING IS VISIBLE IN THE ENCLOSURE WHICH MAY SHORT OUT THE SYSTEM



SCOUT/PYROMETER INSTALL

SCALE: 8x

REVISIONS	by

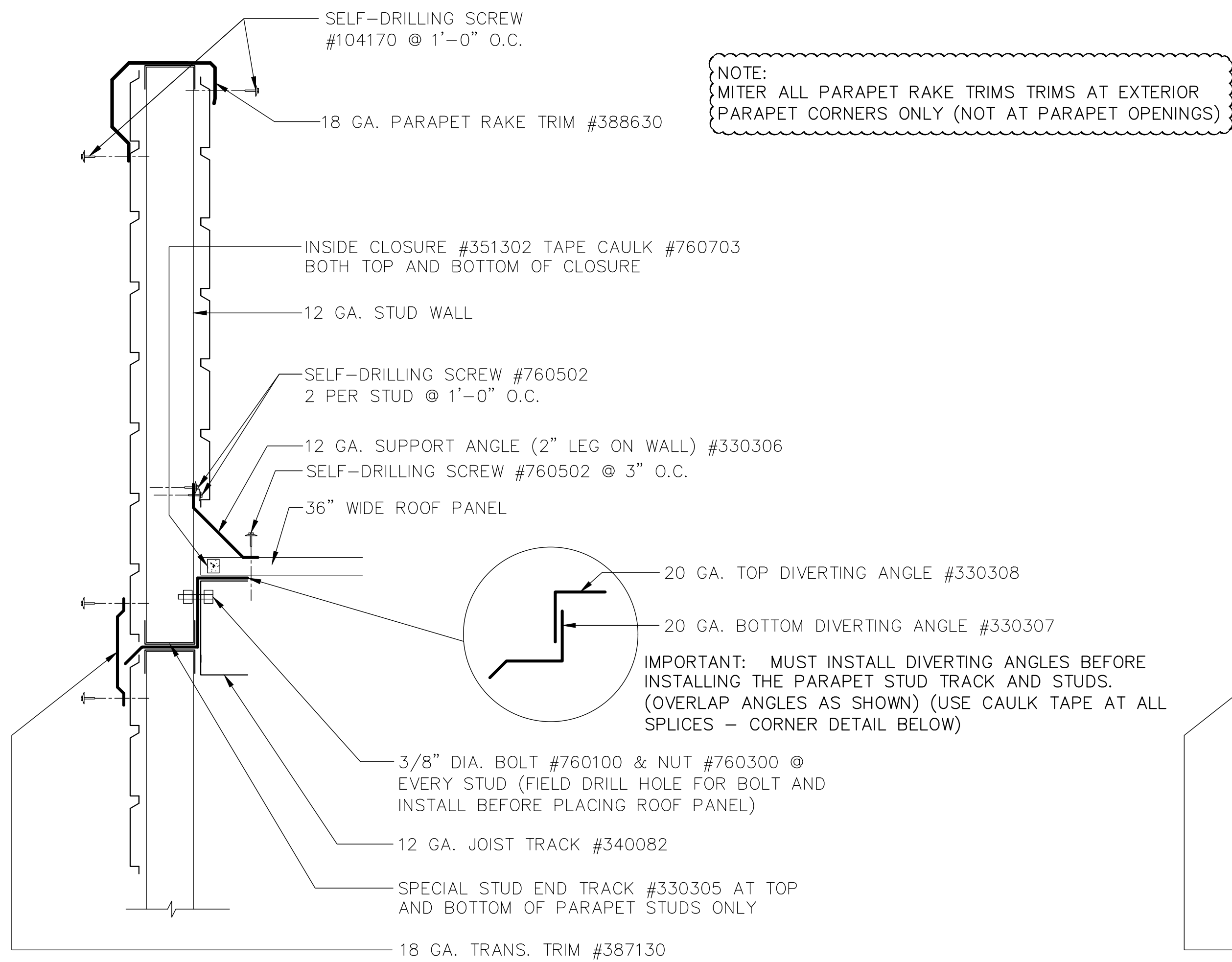


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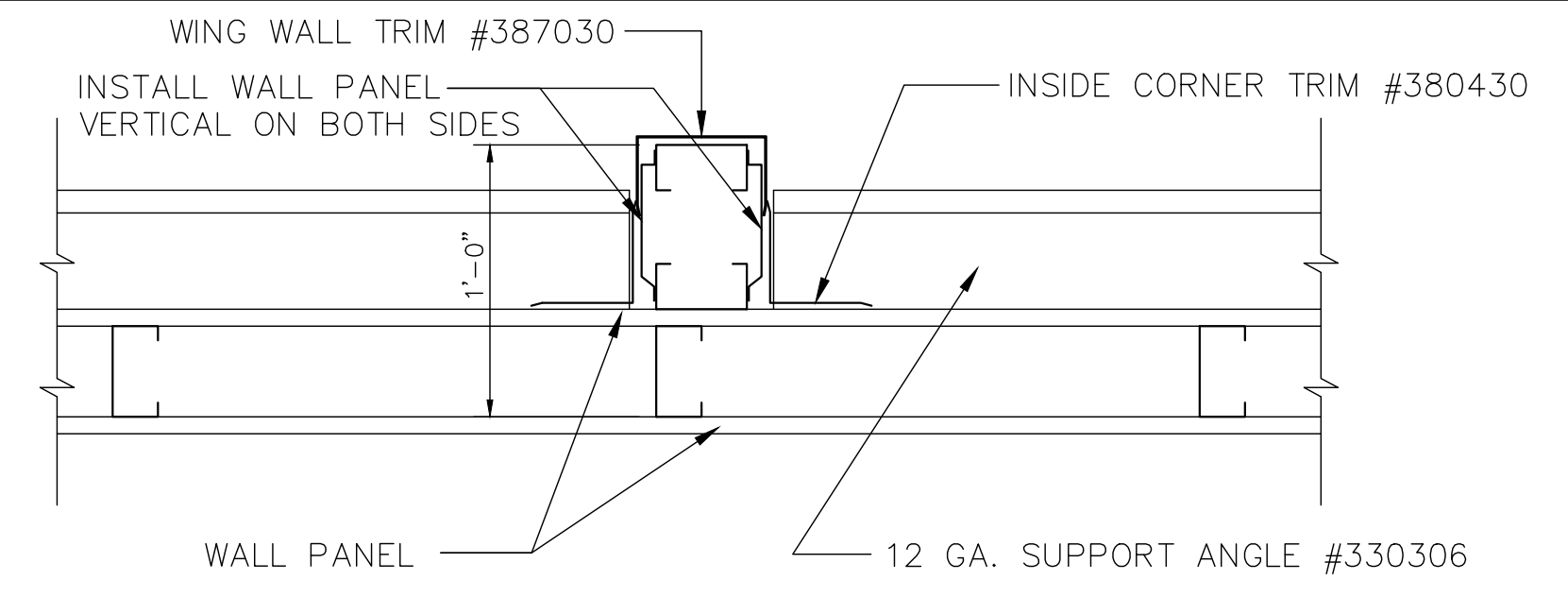
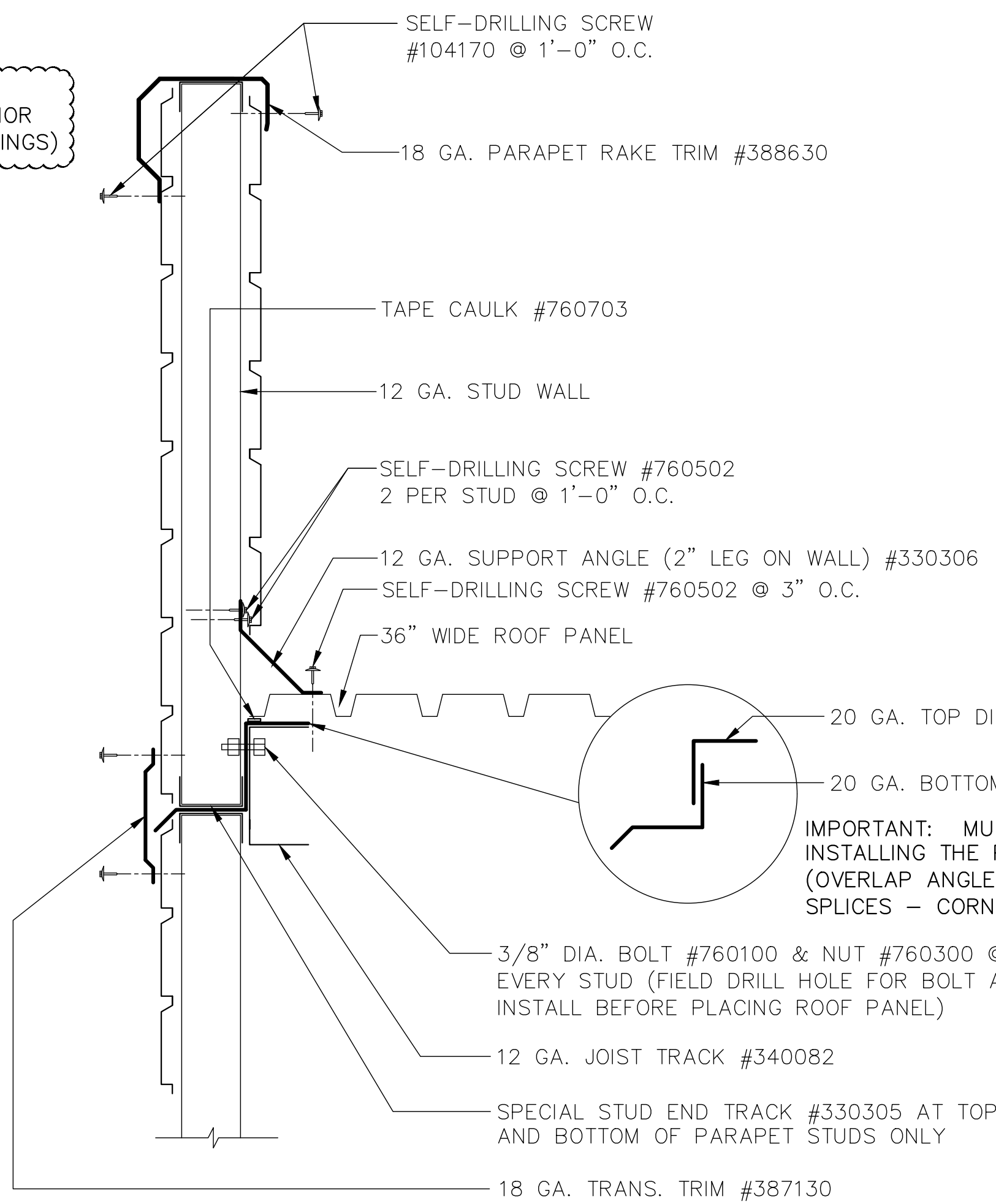
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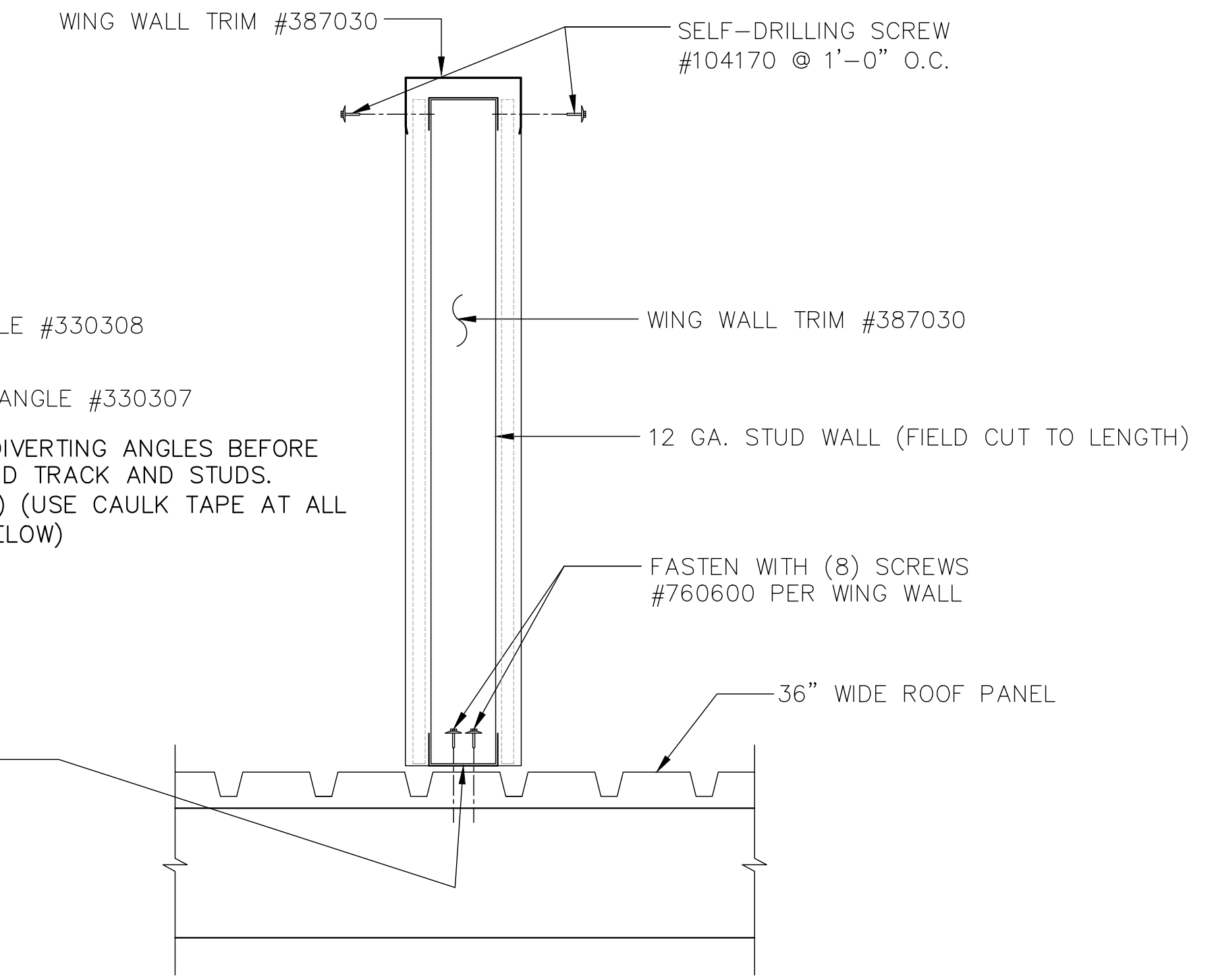
Job Description	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Sheet Title	WESTEC BURN ROOM DETAILS
Date	DECEMBER 10, 2021
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Order No.	FTE-796 / #244368
Sheet No.	18 of 25



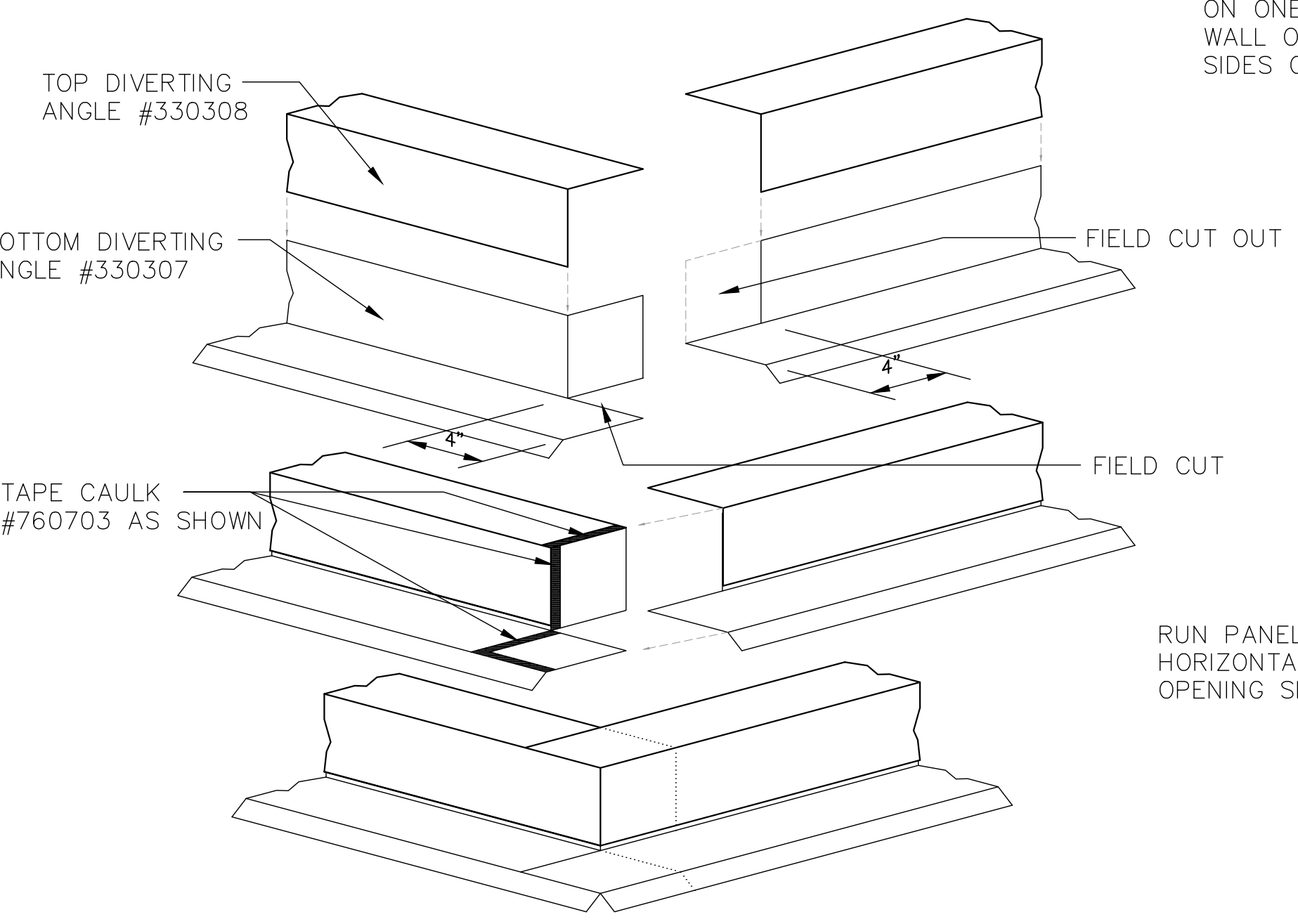
NOTE: MITER ALL PARAPET RAKE TRIMS AT EXTERIOR (PARAPET CORNERS ONLY (NOT AT PARAPET OPENINGS))



SECTION THRU PARAPET AT WING WALL

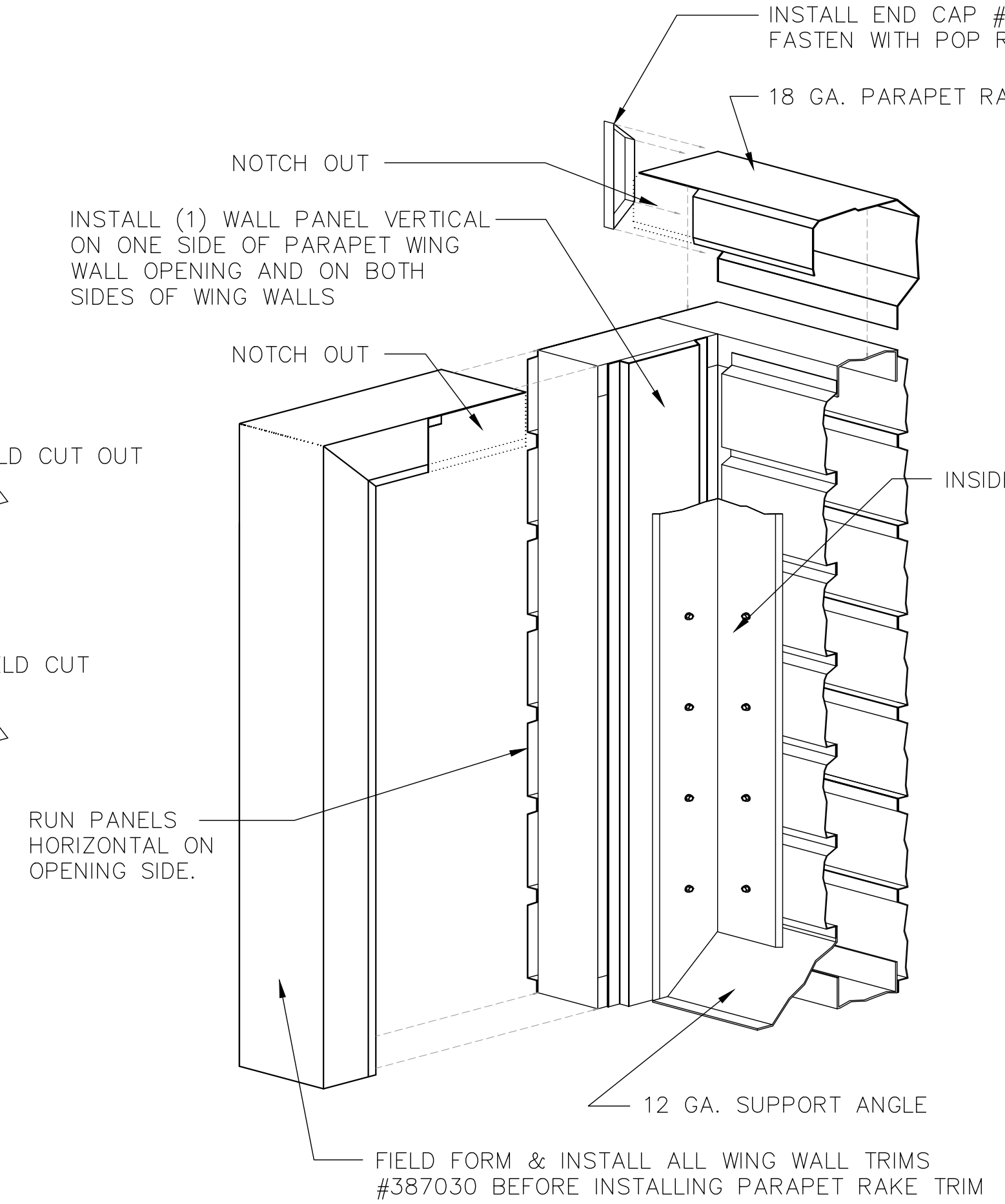


PARAPET WING WALL DETAIL AT END

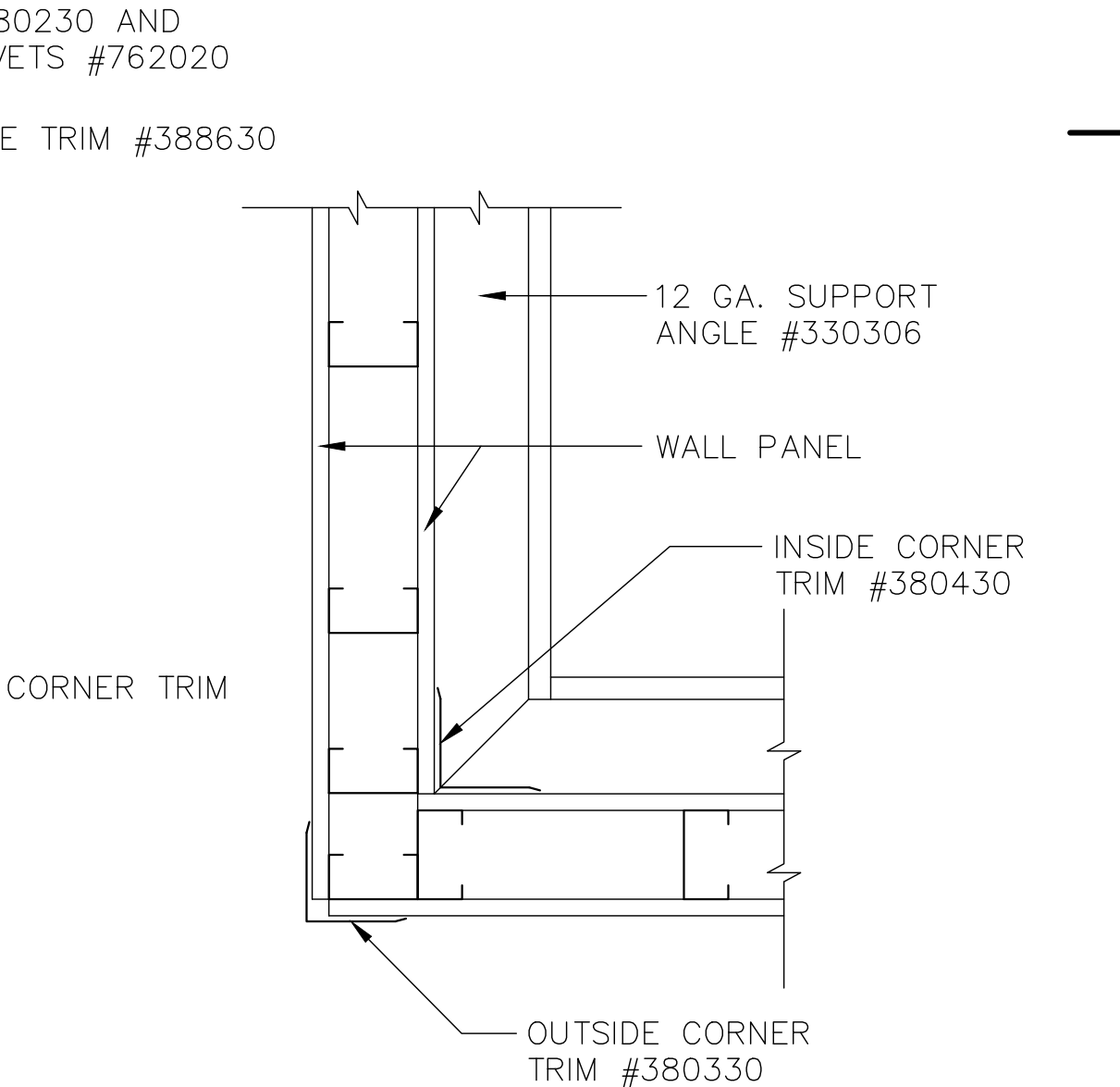


CAULK ALONG ALL DIVERTING ANGLES WHERE TWO PIECES OVERLAP EACH OTHER (APPLIES TO NONCORNER OVERLAPPING AREAS ALSO)

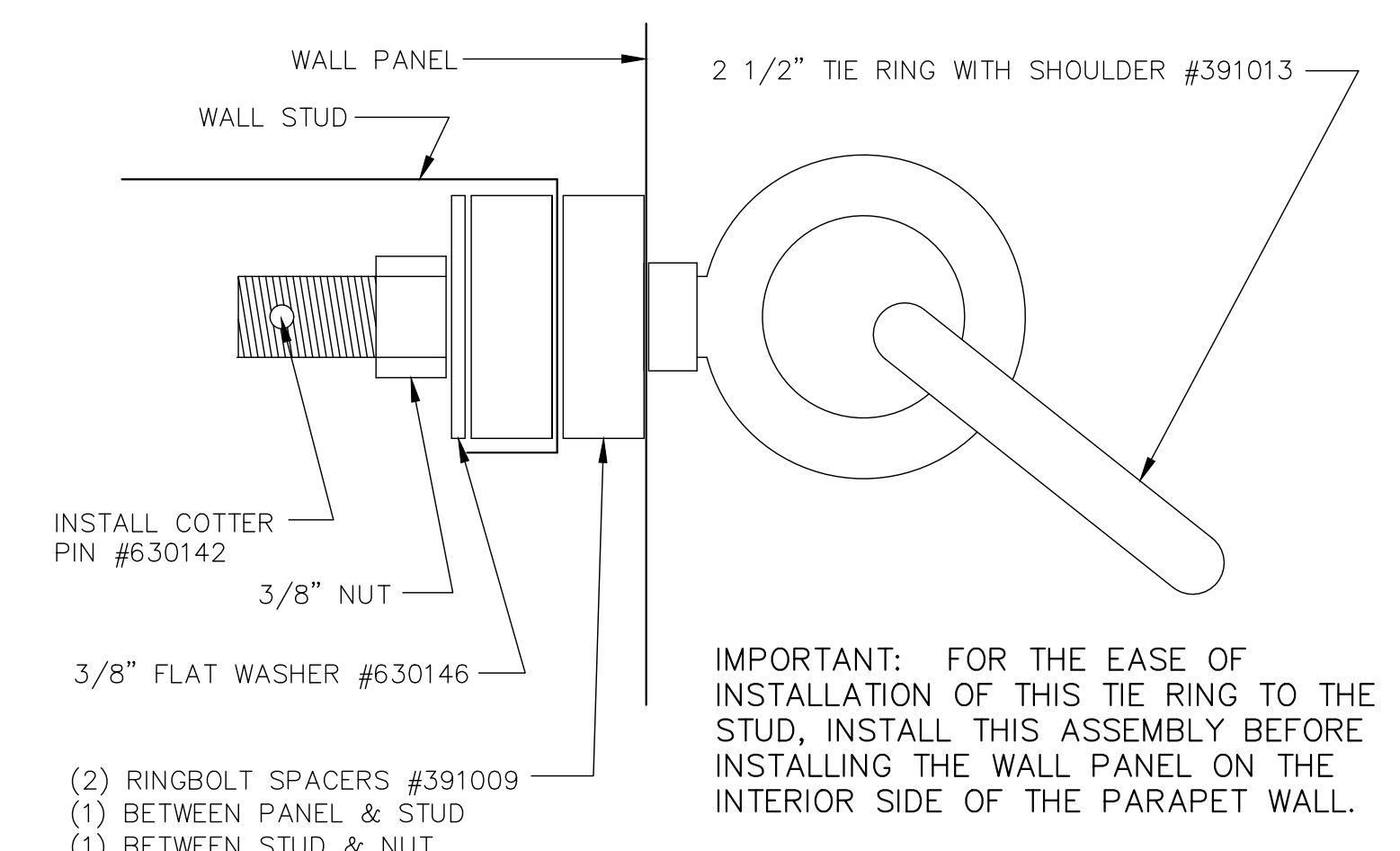
DIVERTING ANGLES/CAULK TAPE DETAIL AT CORNER OF BUILDING



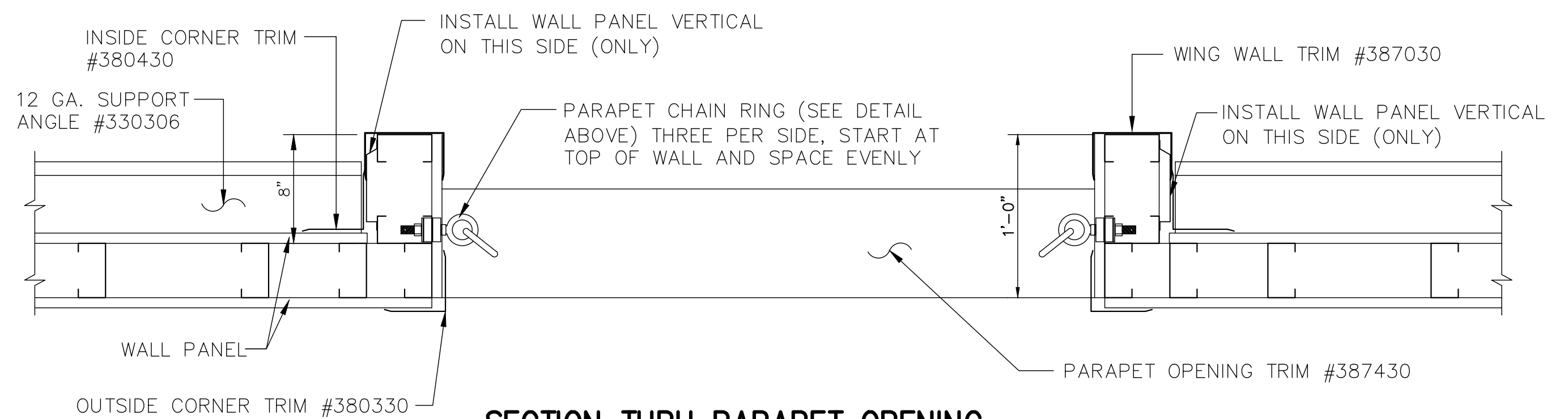
PARAPET OPENING DETAIL



SECTION THRU PARAPET AT BUILDING CORNER

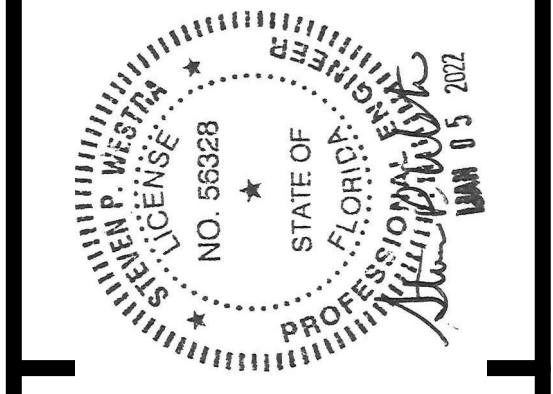


PARAPET CHAIN RING INSTALLATION DETAIL



SECTION THRU PARAPET OPENING

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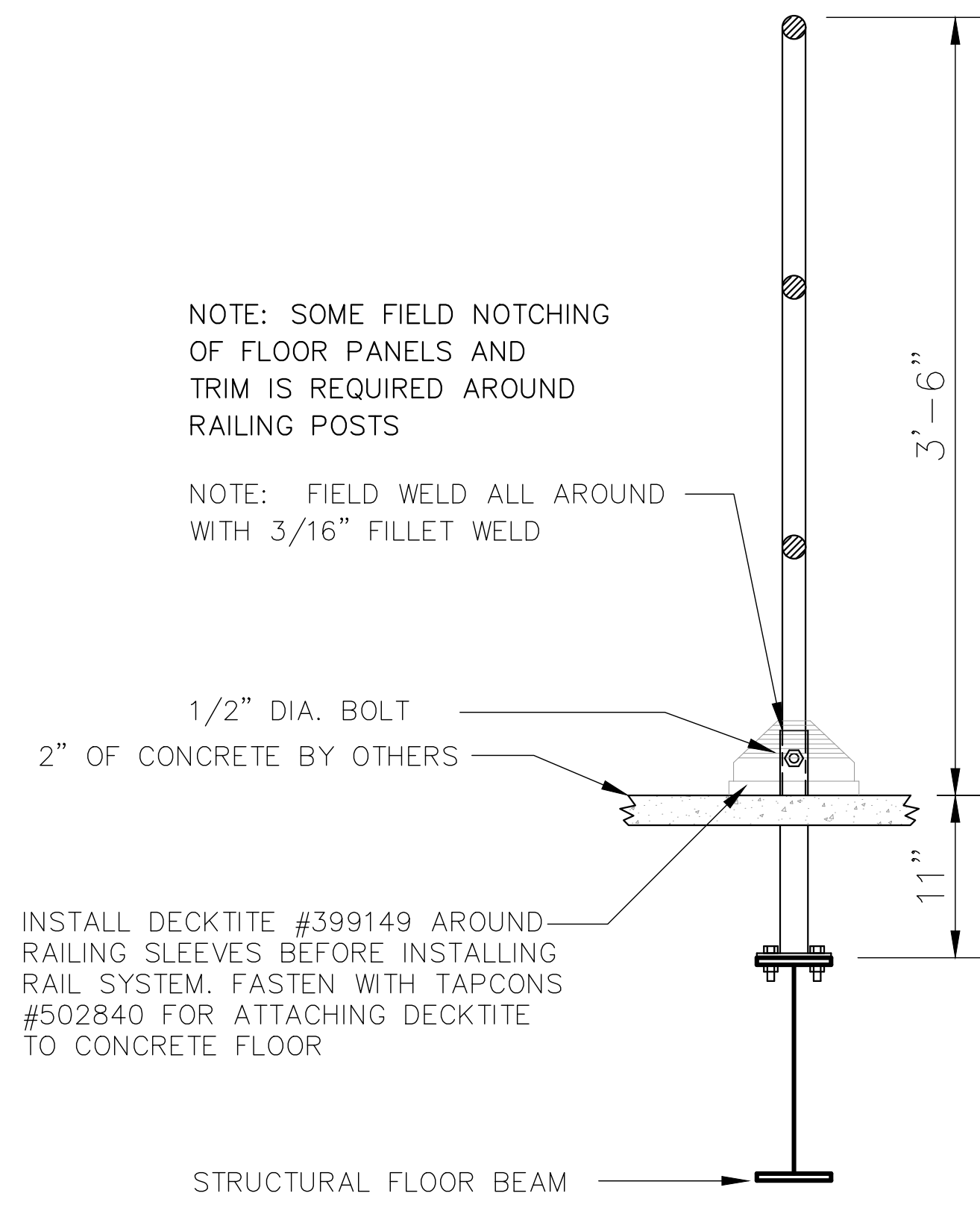


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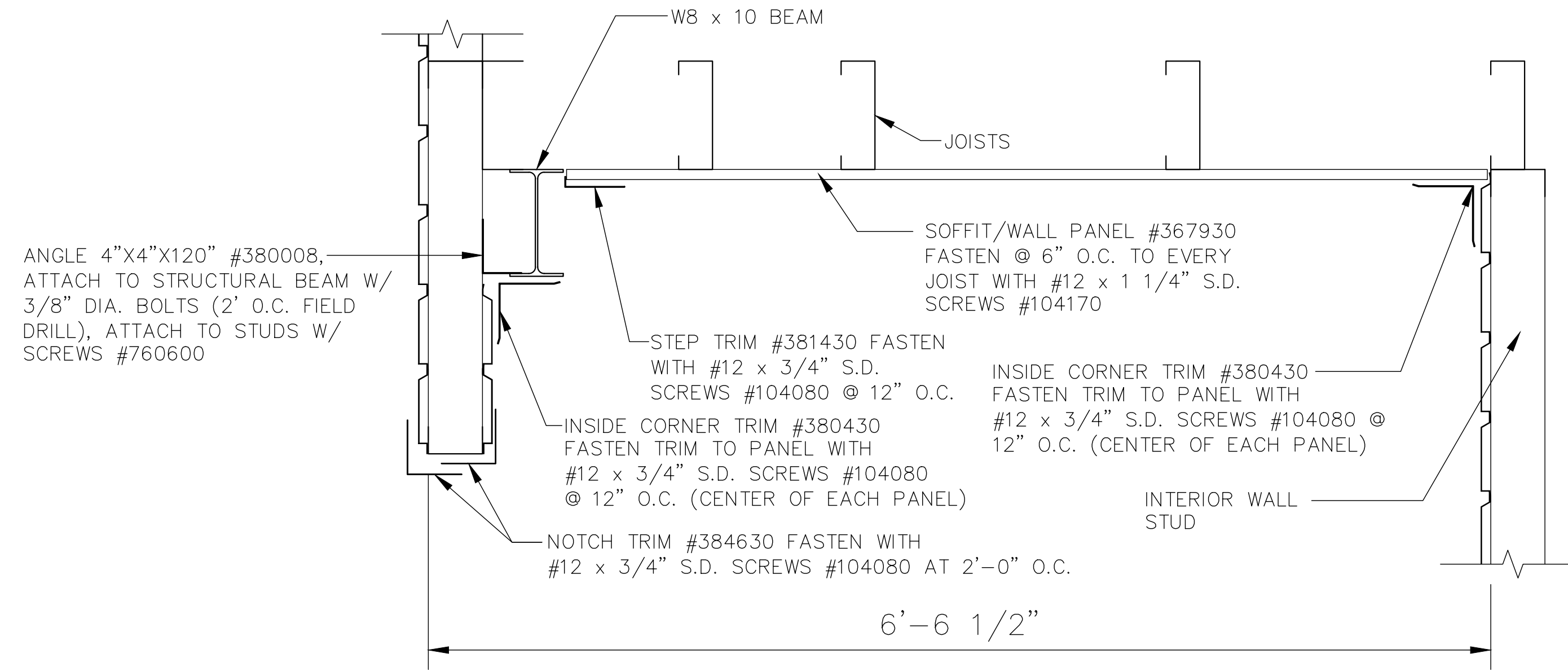
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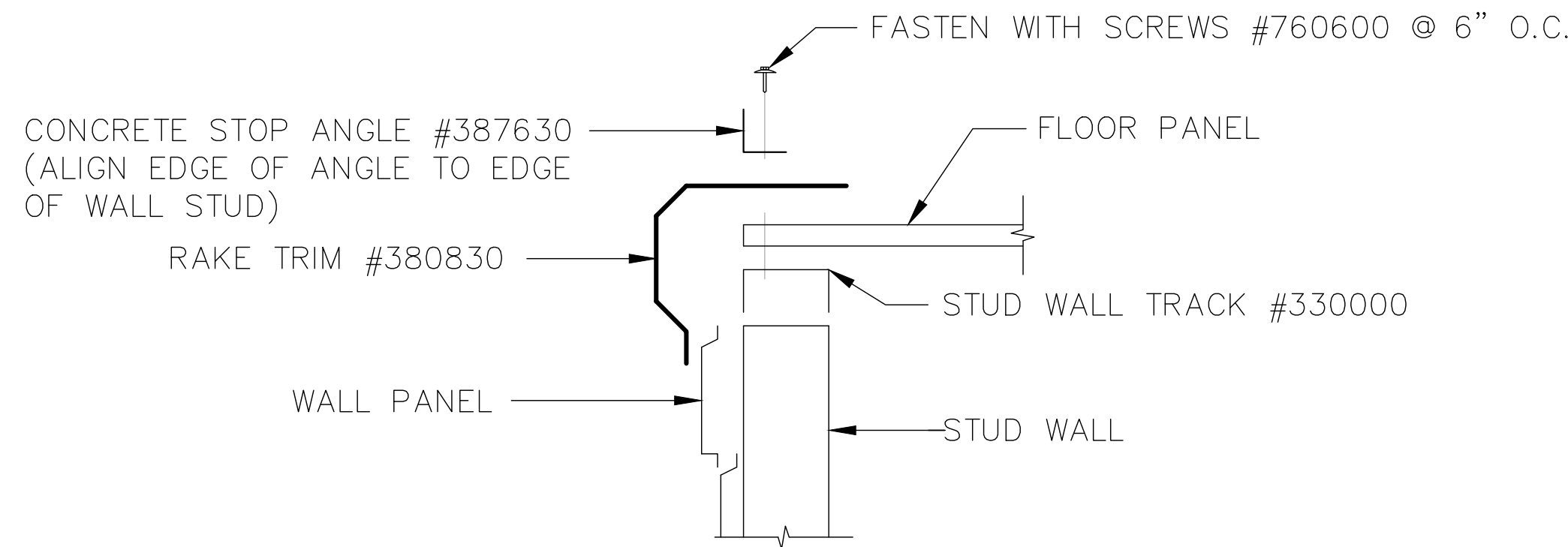
Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.	FTE-796 / #244368
Sheet No.	



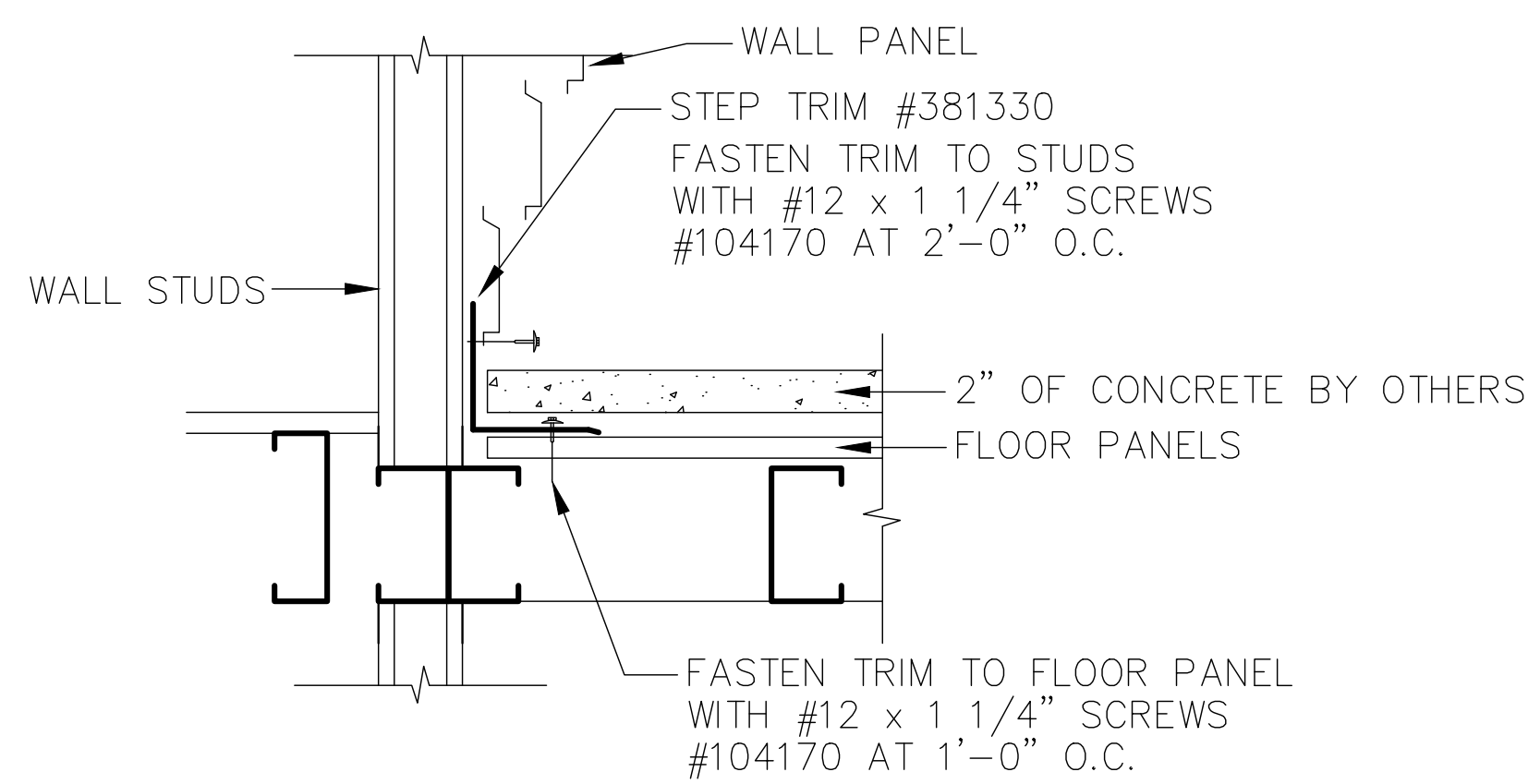
A
01 SECTION THRU HANDRAIL



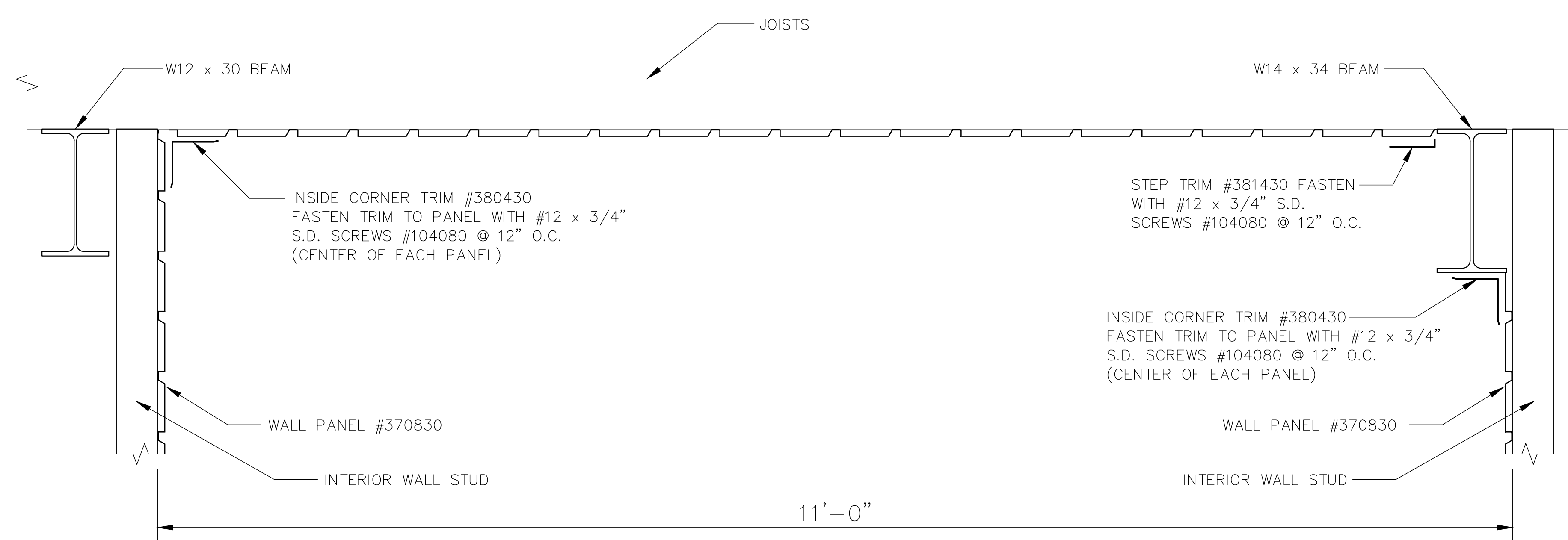
B
01 SECTION THRU RECESSED BALCONY CEILING



RECESSED BALCONY FLOOR EDGE DETAIL



TOWER RECESSED AREA STEP TRIM DETAIL



C
01 SECTION THRU RECESSED BALCONY CEILING

REVISIONS	by

Engineer: Steven P. Westra
Address: 314 Wilburn Road, Sun Prairie, WI 53590
Phone: (608) 327-4100
Professional License # PE 56328

STATE OF WISCONSIN
PROFESSIONAL ENGINEER
NO. 56328
STEVEN P. WESTRA
JULY 8 5 2022

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Job Description: **WESCO MODEL FF-4**
CUSTOM
CRESTVIEW, FL

Sheet Title: RECESSED BALCONY DETAILS

Date: DECEMBER 10, 2021

Drawn by: WDM

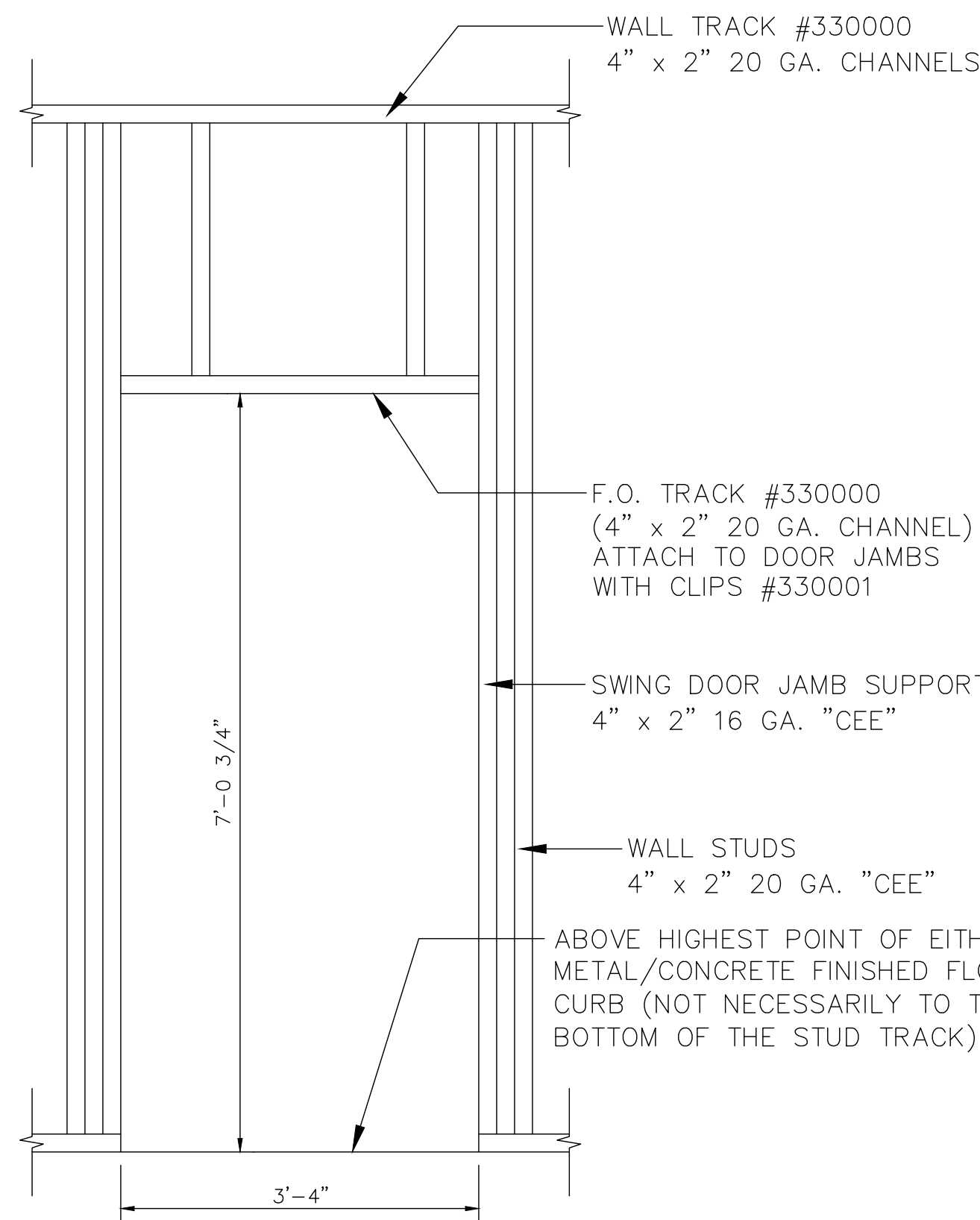
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Scale: SHOWN

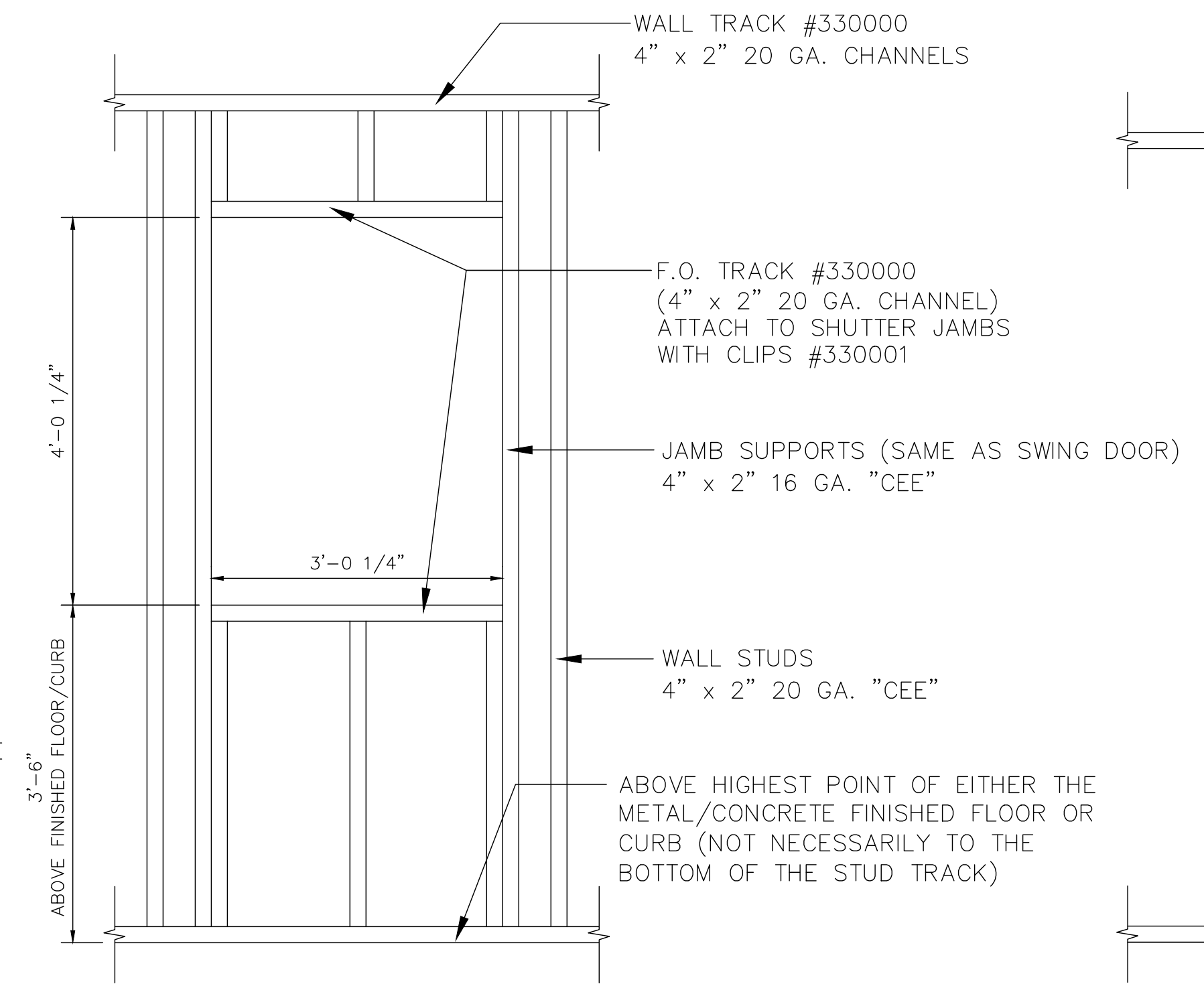
Order No. FTE-796 / #244368

Sheet No. 20 of 25

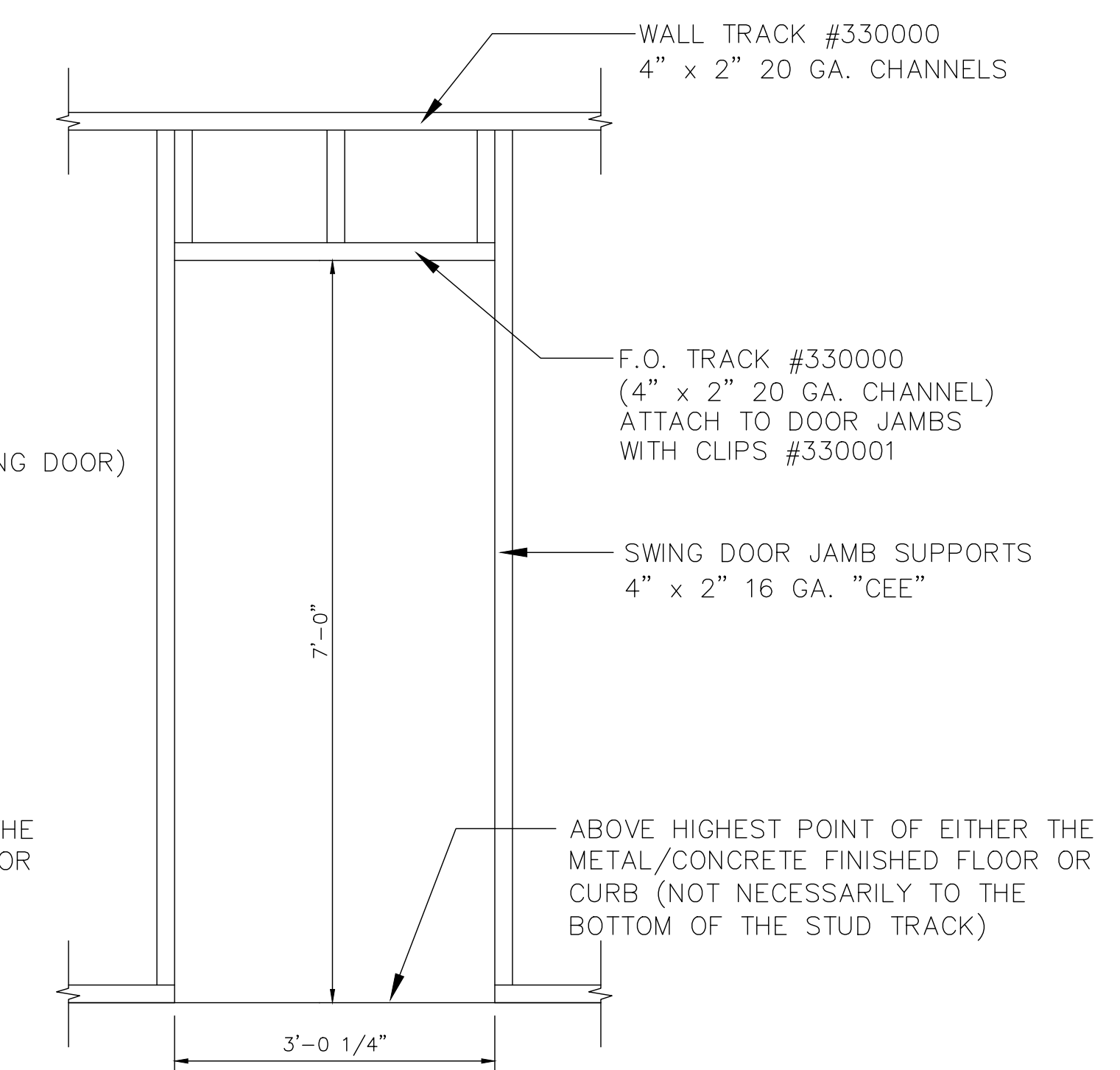
NOTE: FRAMED OPENING FRAMING WILL REQUIRE SOME FIELD CUTTING



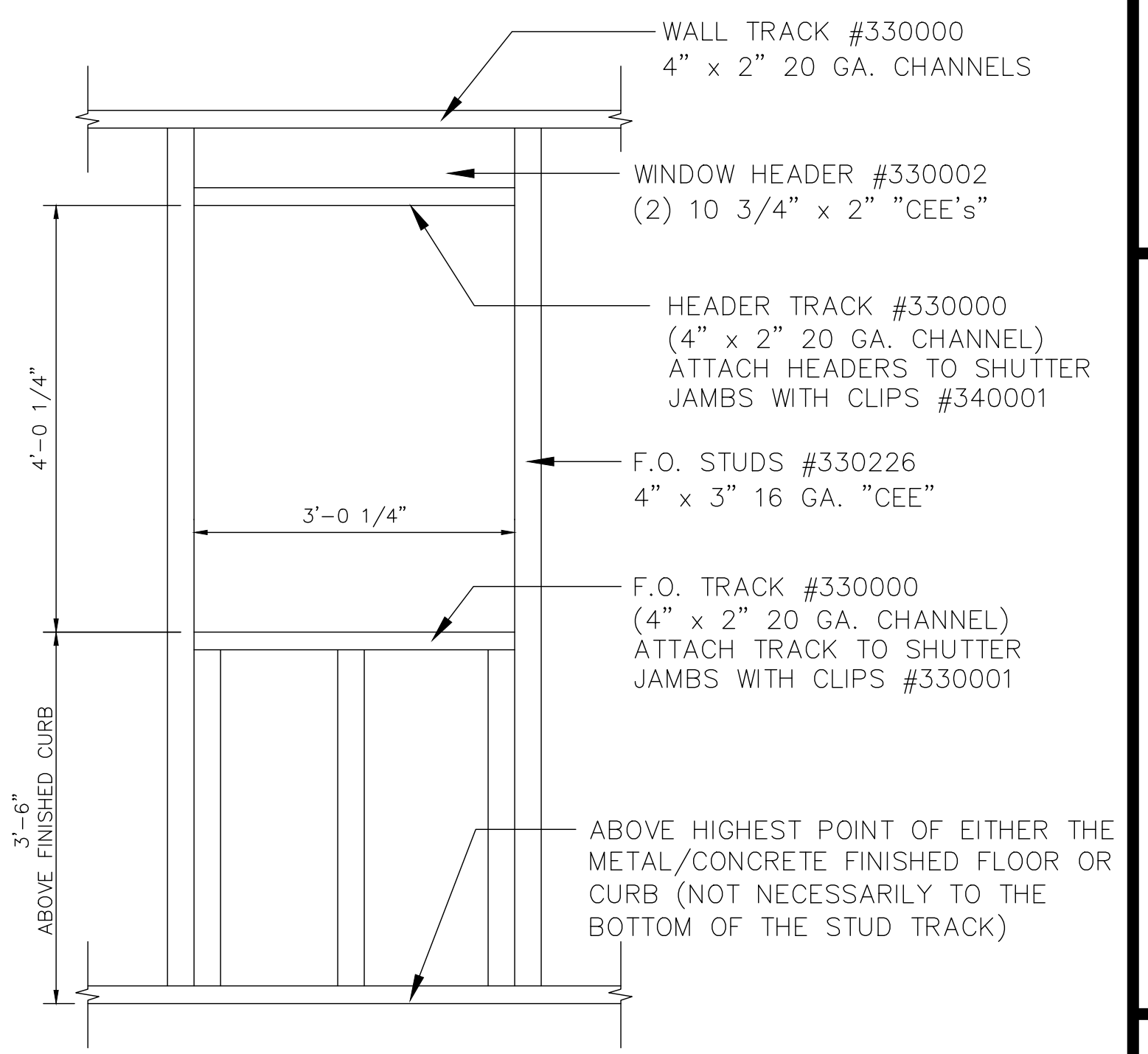
TYPICAL TOWER SWING DOOR FRAMED OPENING ELEVATION



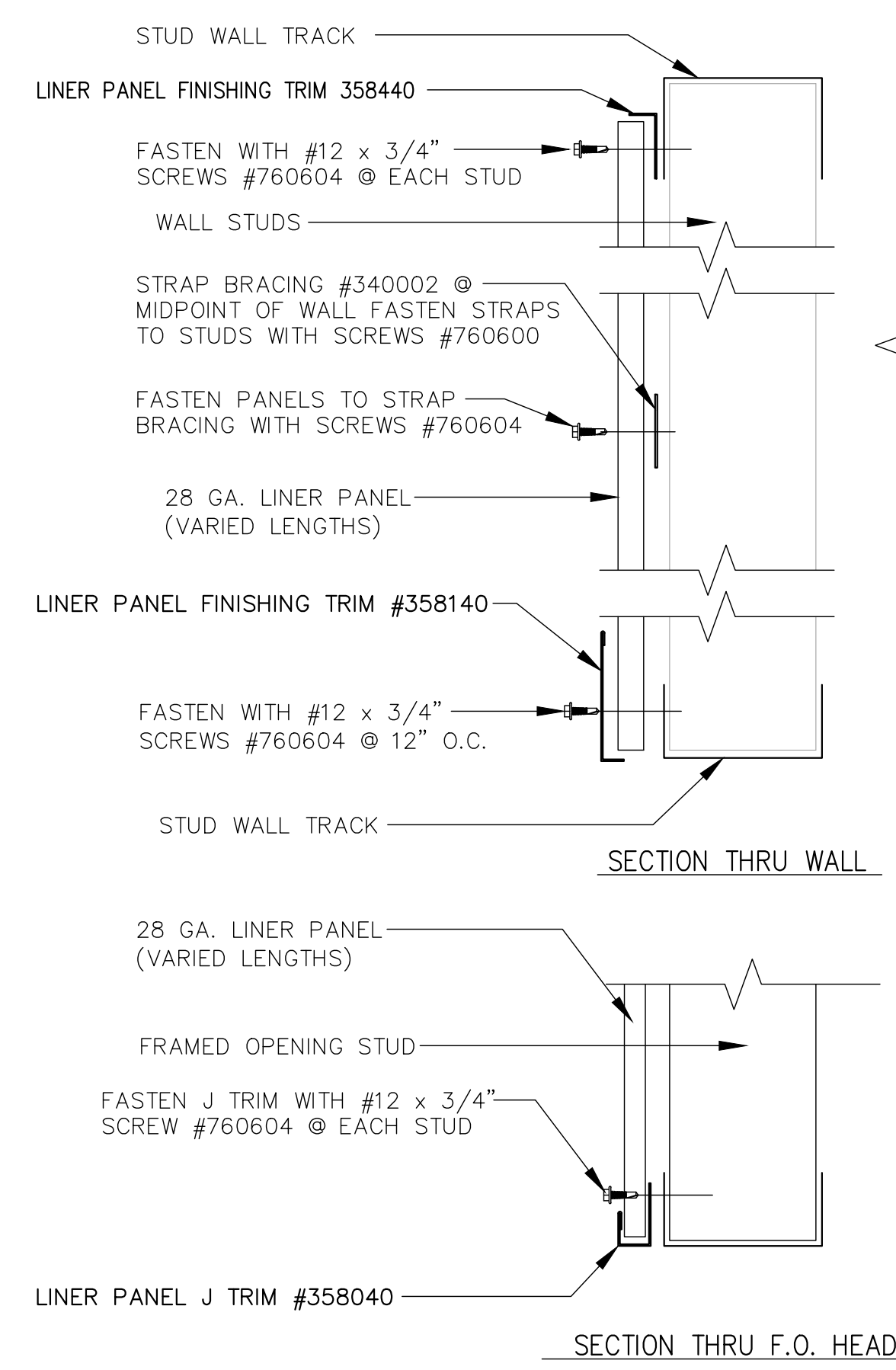
TYPICAL TOWER WINDOW/SHUTTER FRAMED OPENING ELEVATION



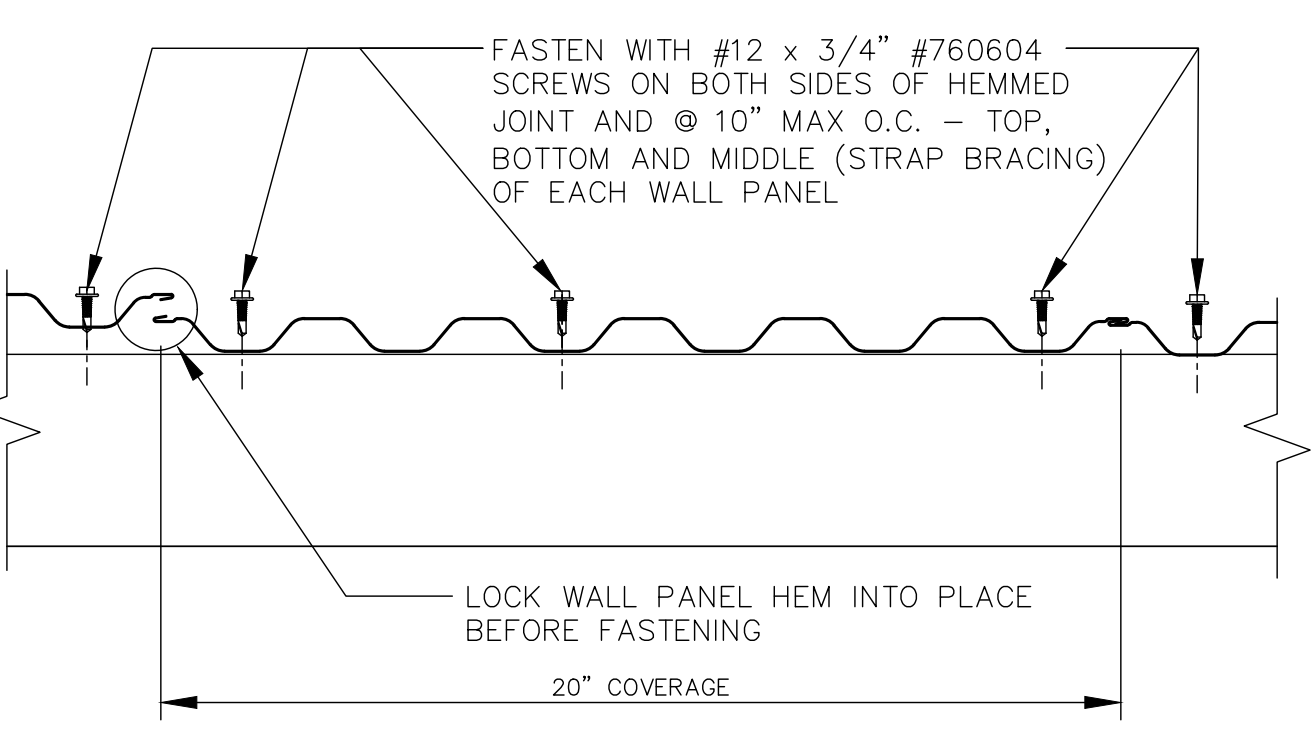
TYPICAL BURN ROOM SWING DOOR FRAMED OPENING ELEVATION



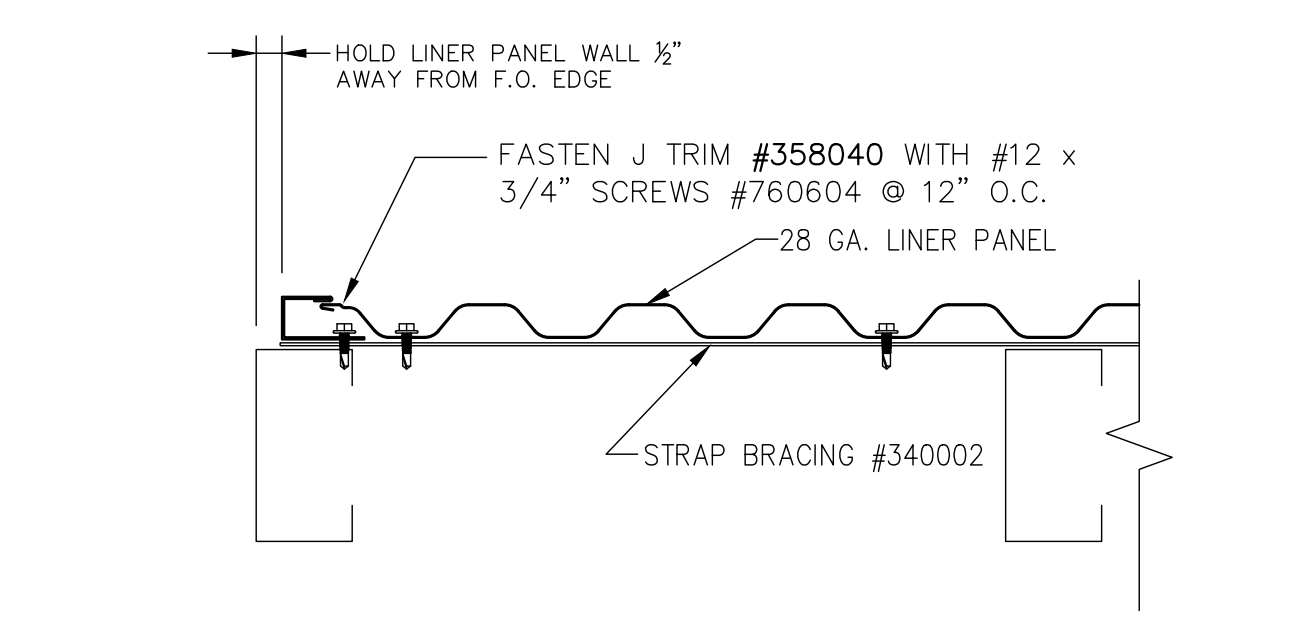
TYPICAL ANNEX BURN ROOM WINDOW/SHUTTER FRAMED OPENING ELEVATION



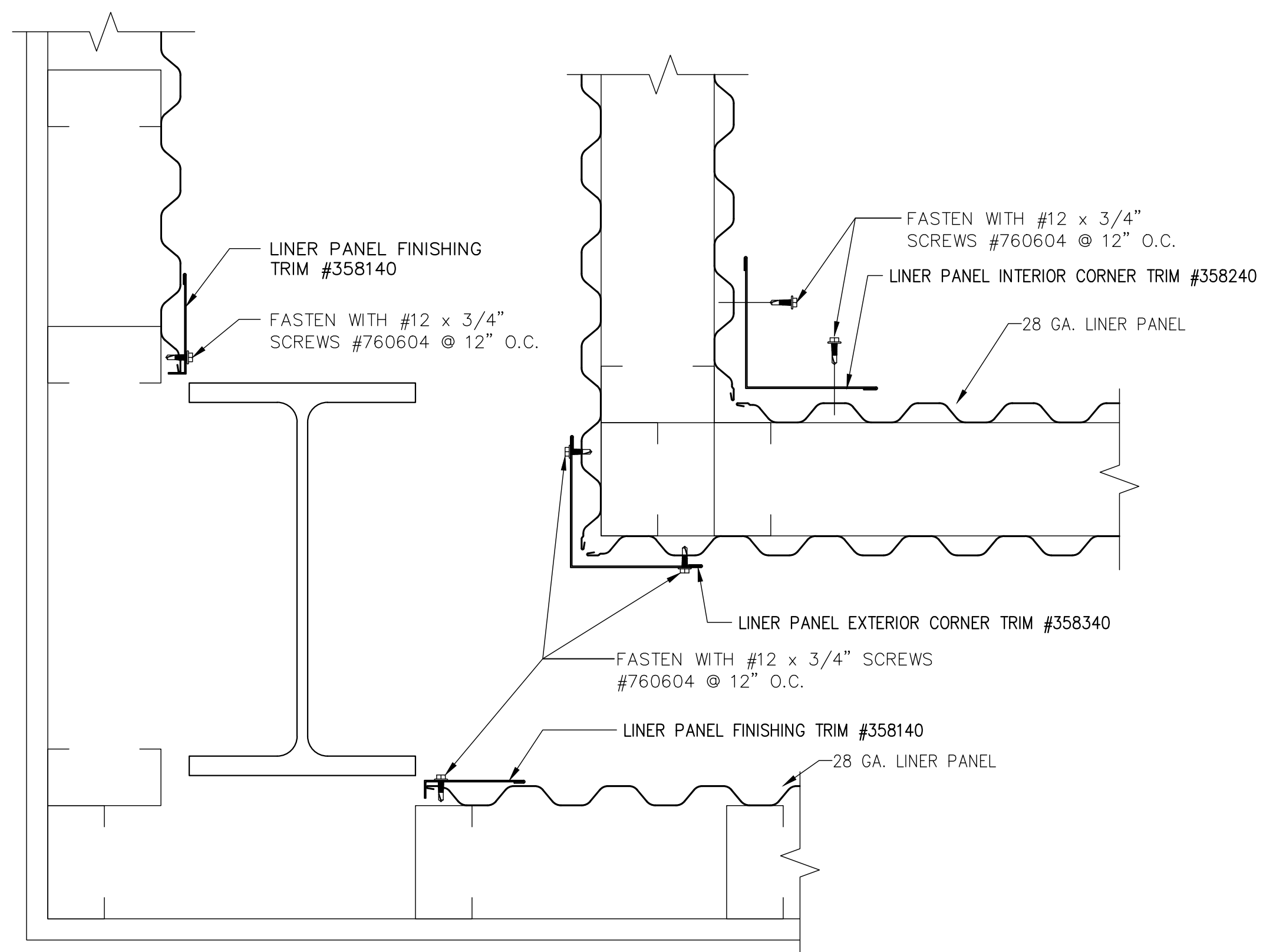
SECTION THRU WALL



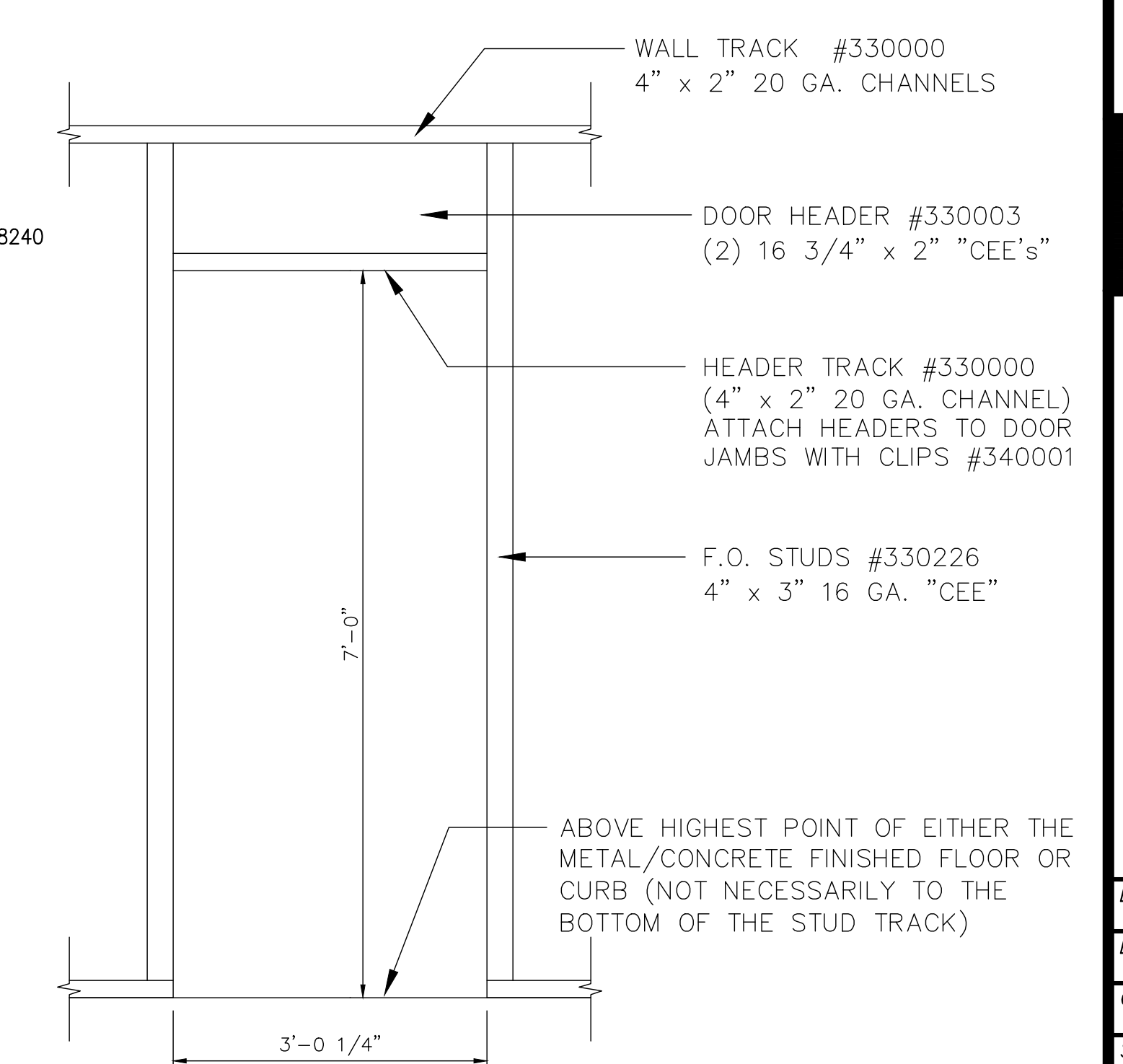
SECTION THRU TYP. LINER PANEL SHEET



SECTION THRU F.O. JAMB



LINER PANEL FASTENING DETAILS



TYPICAL ANNEX BURN ROOM SWING DOOR FRAMED OPENING ELEVATION

REVISIONS	by

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 800-929-3726
 Florida License #: FE 95328

STEEL FIRE TRAINING TOWERS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 NO. 56328
 EXPIRES 8/5/2022

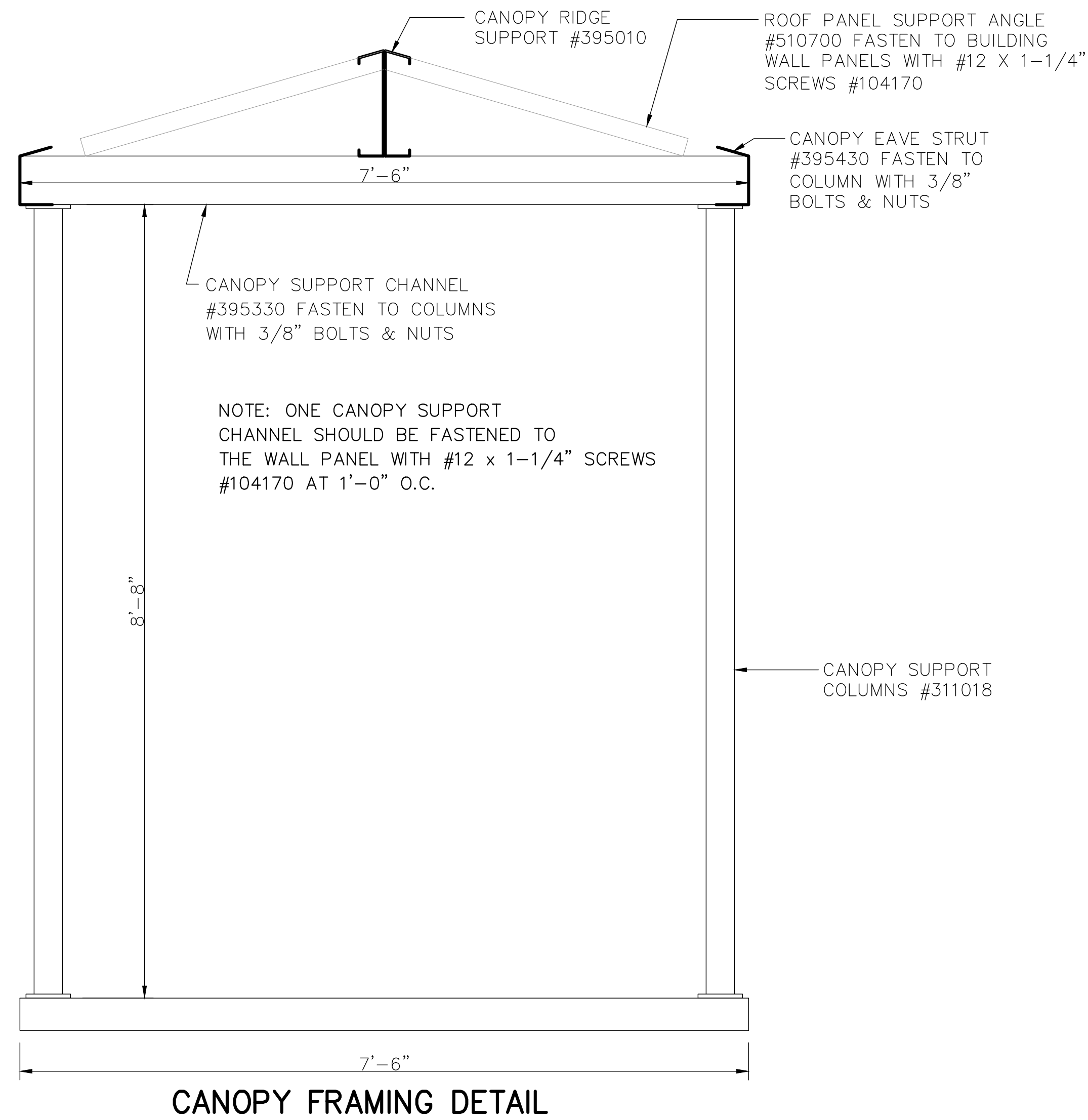
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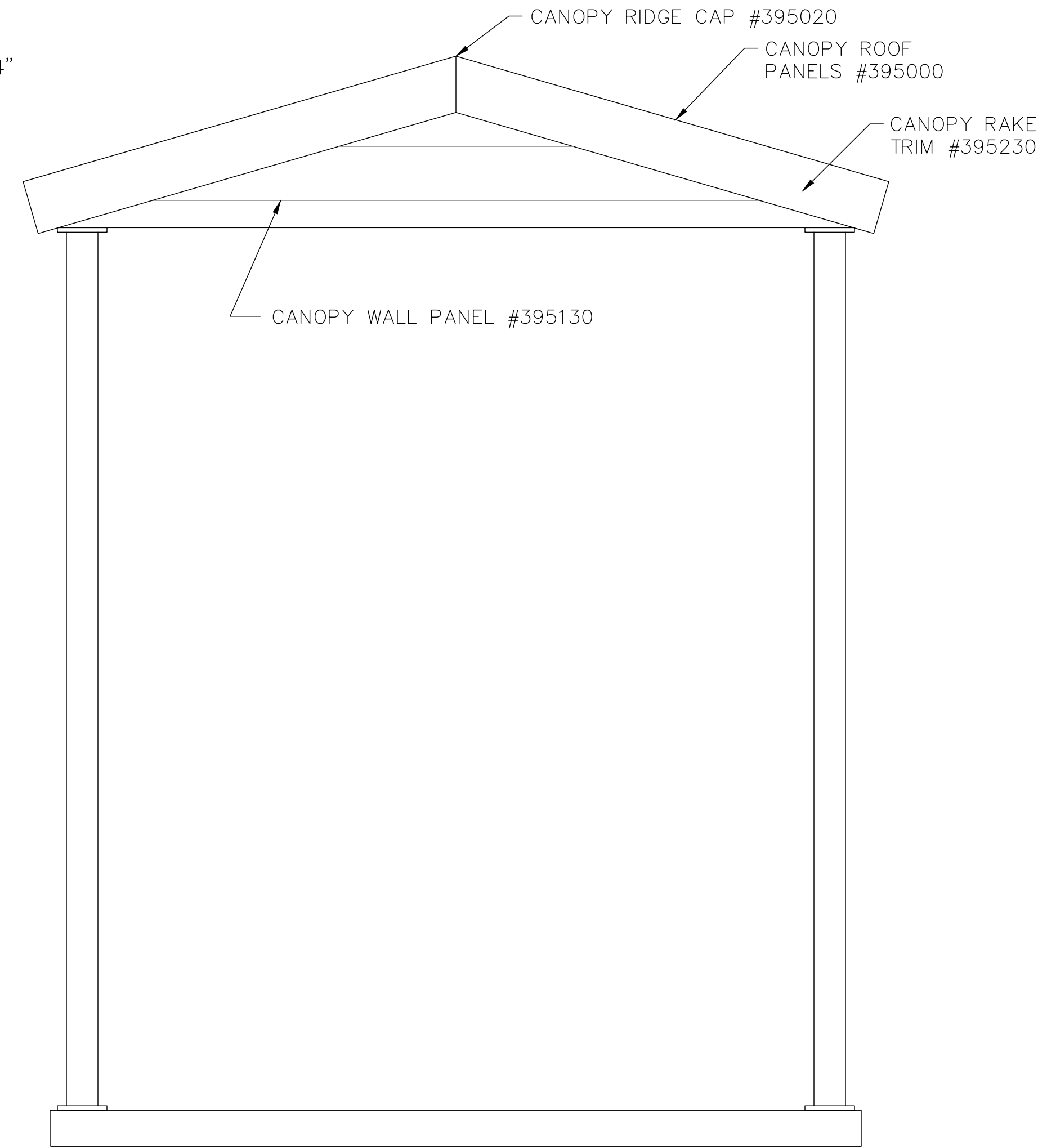
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Job Description: **WESCO MODEL FF-4**
 CUSTOM CRESTVIEW, FL
 Sheet Title: MISC. DETAILS

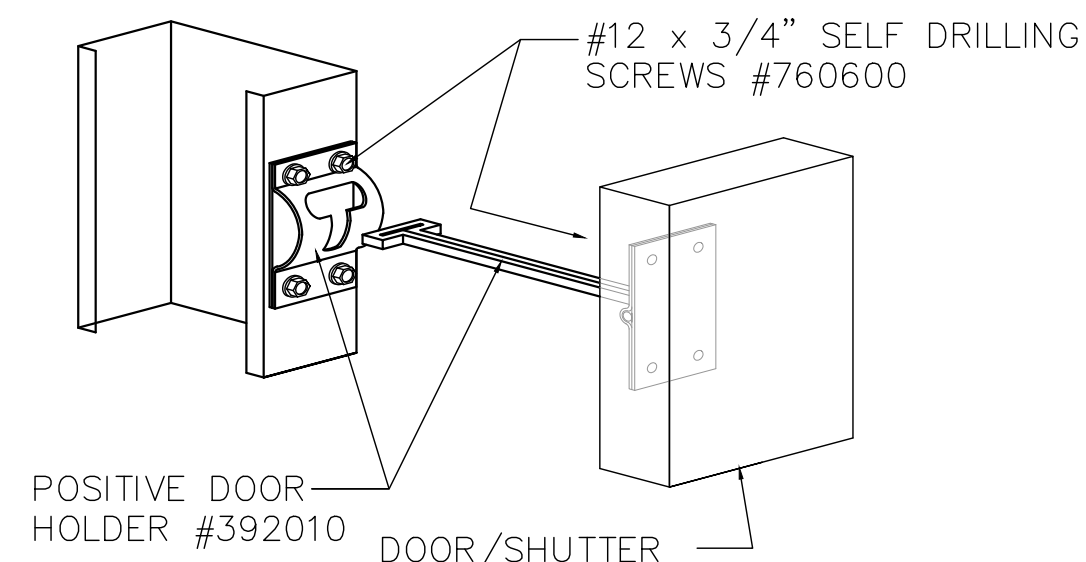
Date: DECEMBER 10, 2021
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 Scale: SHOWN
 Order No. FTE-796 / #244368
 Sheet No.



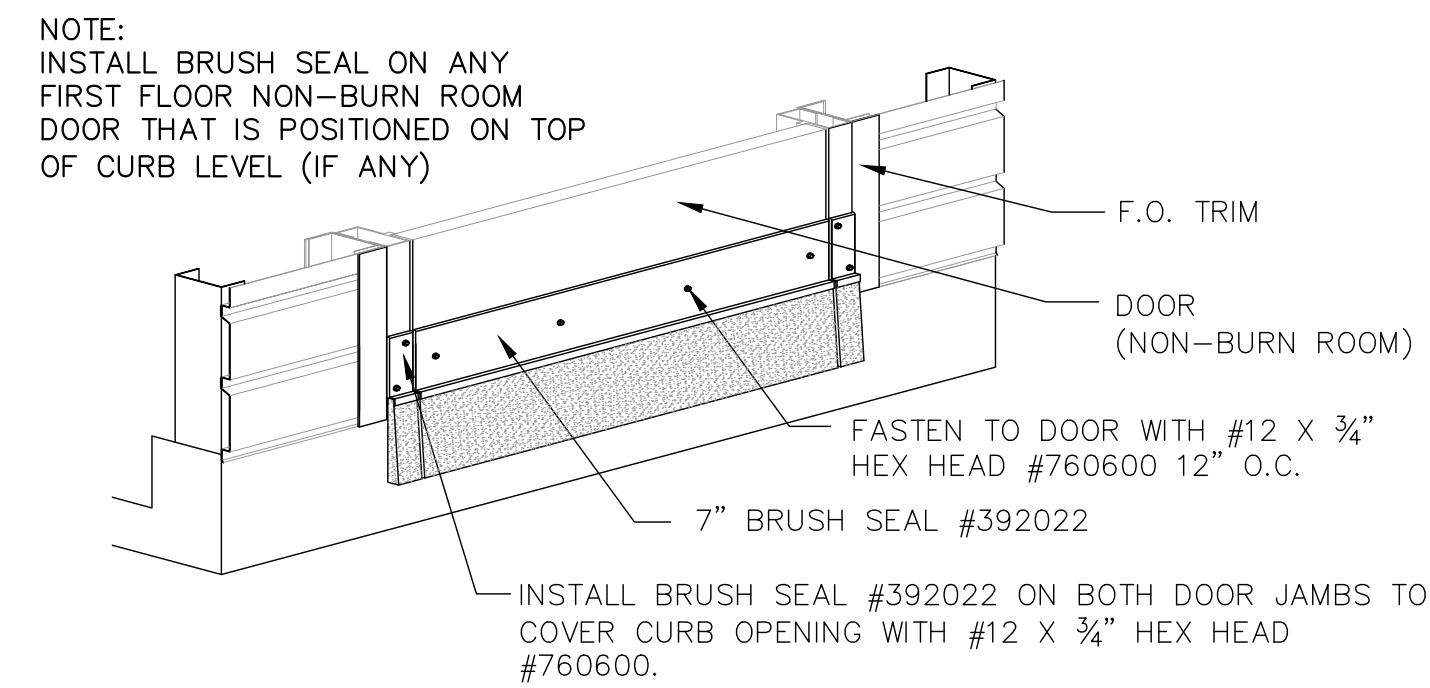
CANOPY FRAMING DETAIL



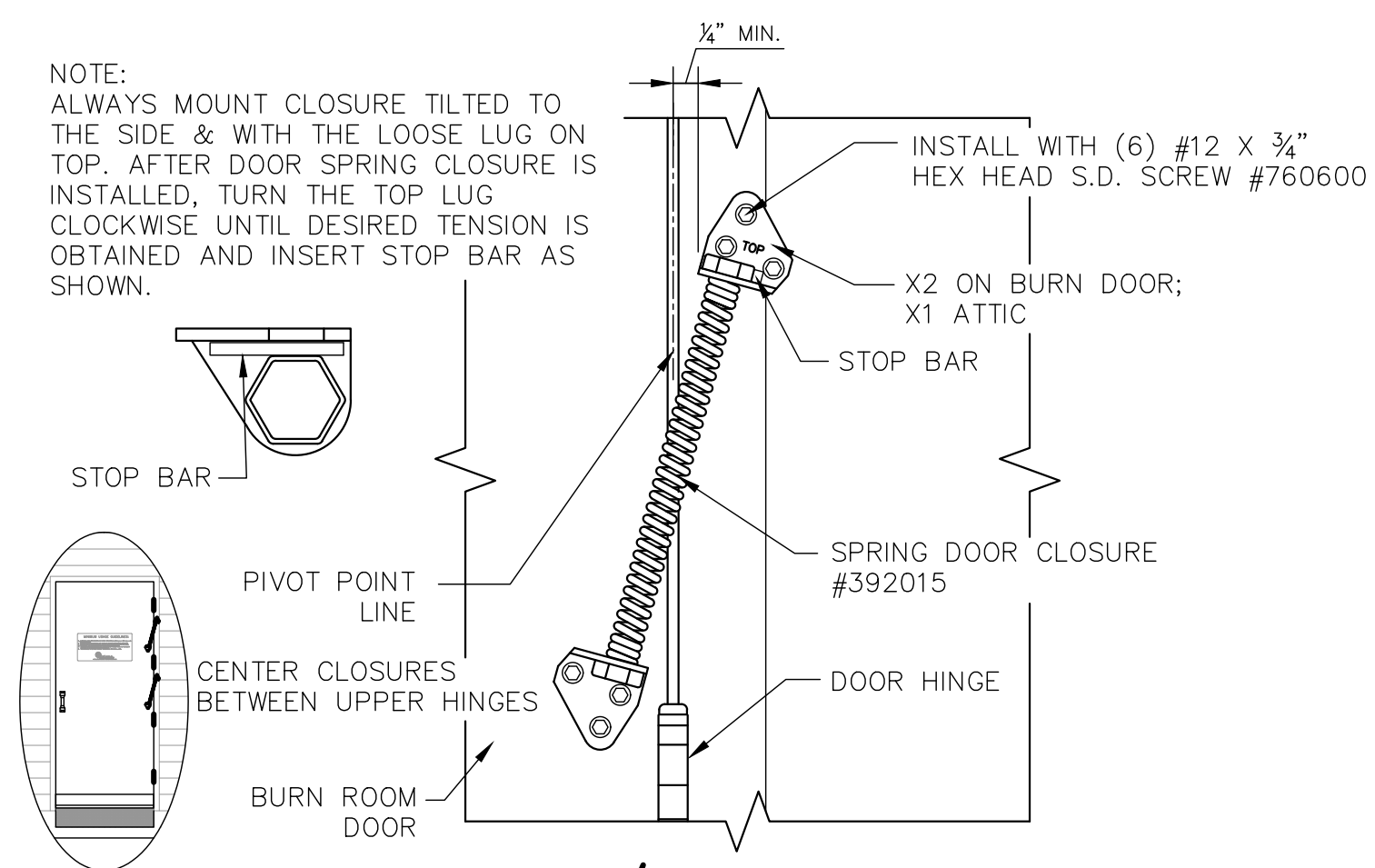
CANOPY ELEVATION



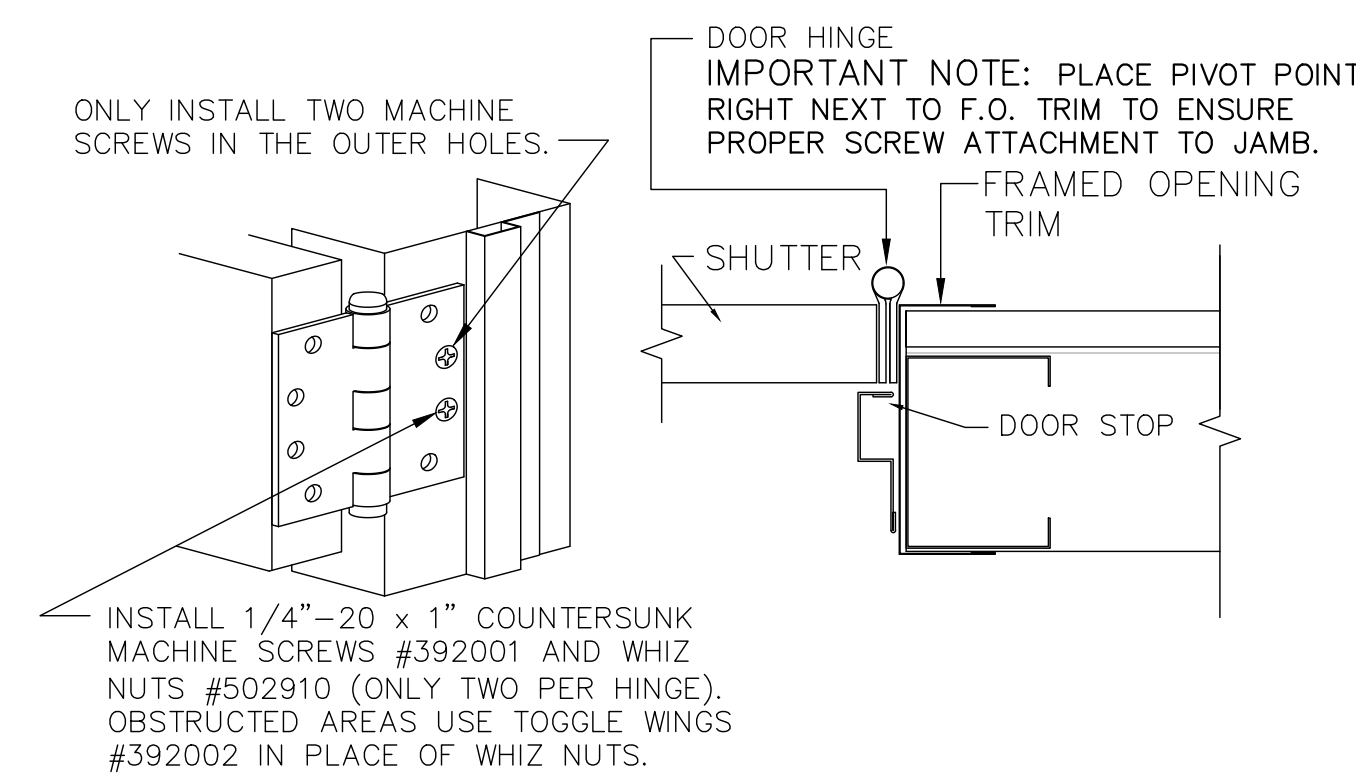
DOOR HOLDER (NON INSULATED DOORS/SHUTTERS ONLY)



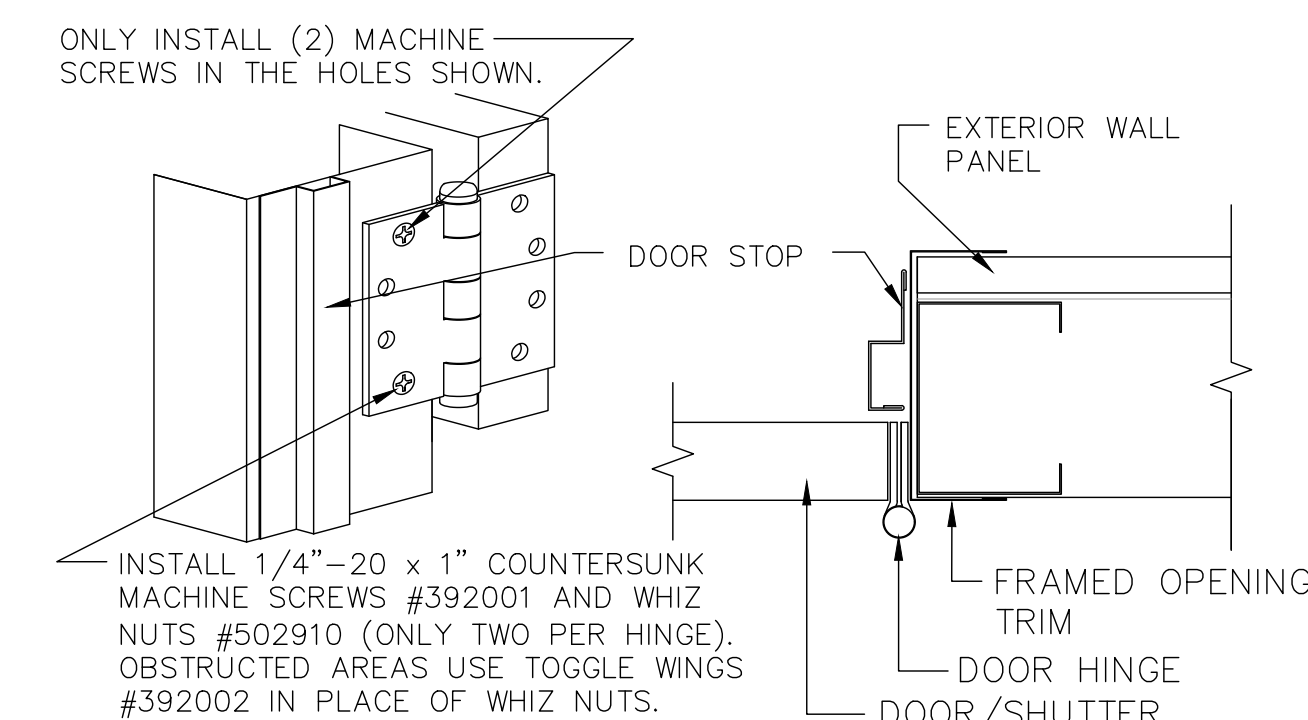
TYPICAL NON-BURN DOOR BRUSH SEAL DETAIL



BURN ROOM DOOR/GABLED ATTIC CLOSURE



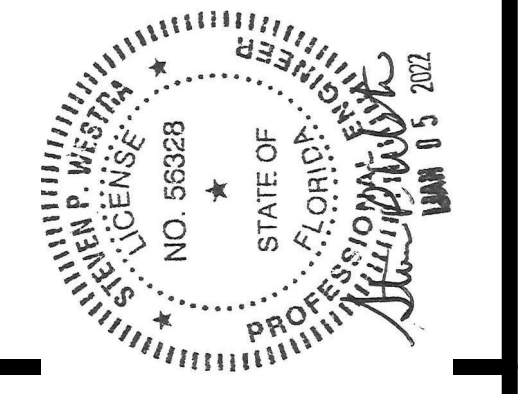
SWING OUT SECTION VIEW OF NONBURN ROOM JAMB



SWING IN SECTION VIEW OF NONBURN ROOM JAMB

REVISIONS	by

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 53590
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 Florida License # FE 95328



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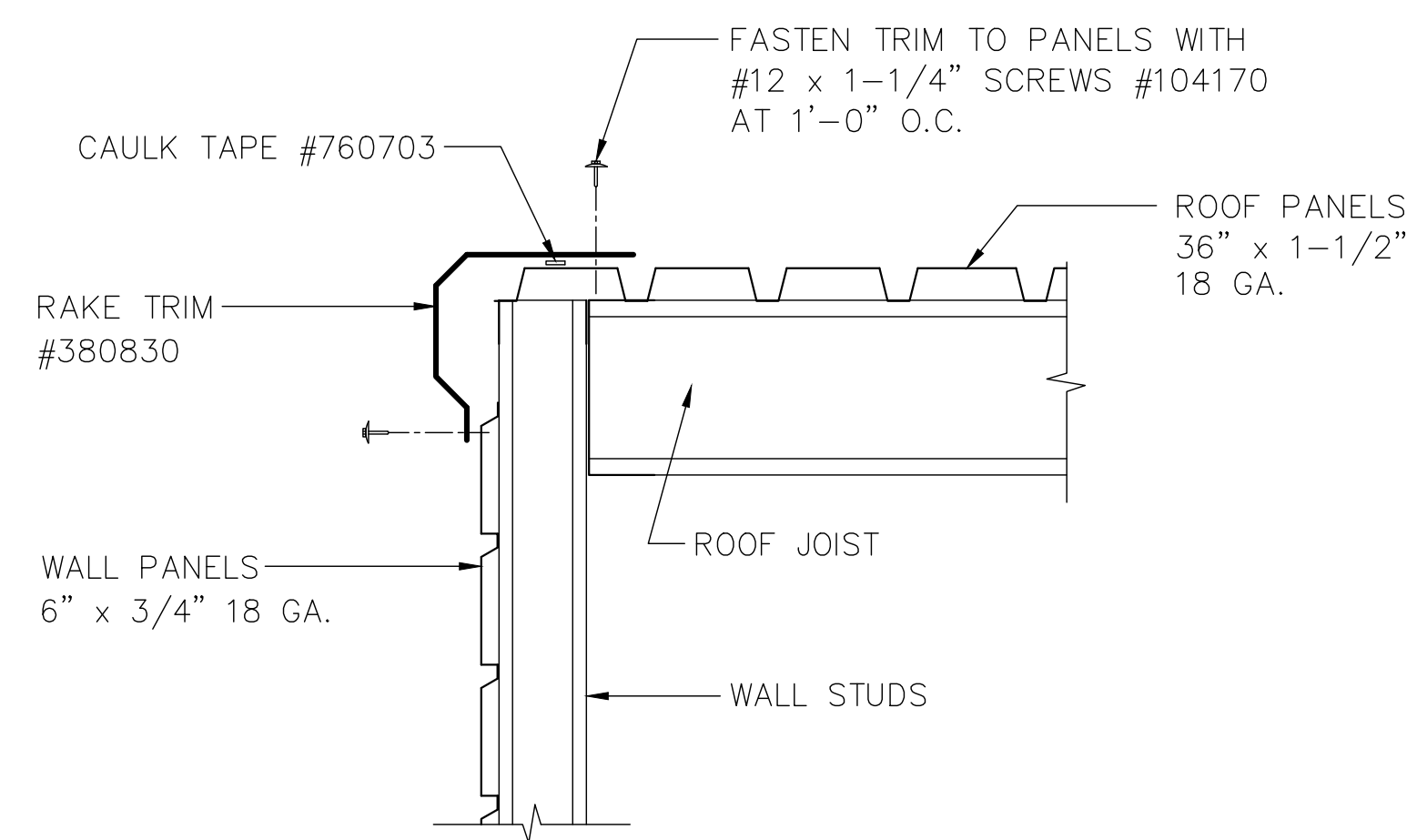
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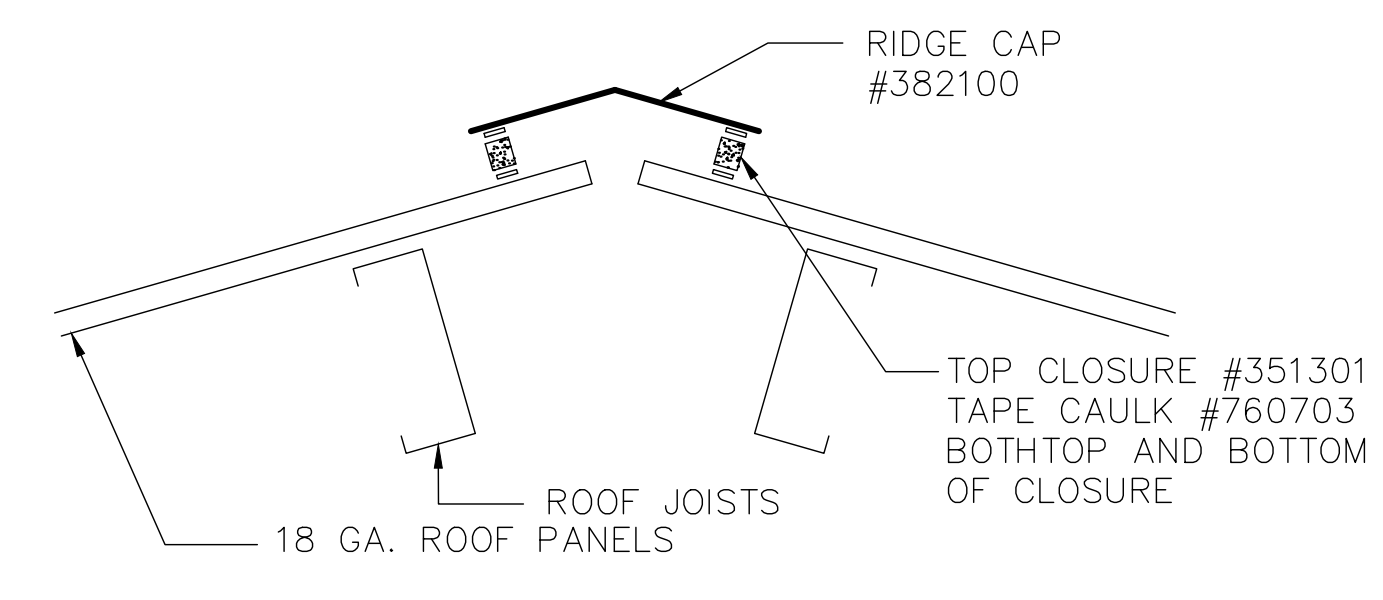
WESCO MODEL FF-4
 CUSTOM
 CRESTVIEW, FL

Job Description:
 Sheet Title: MISC. DETAILS CONT.

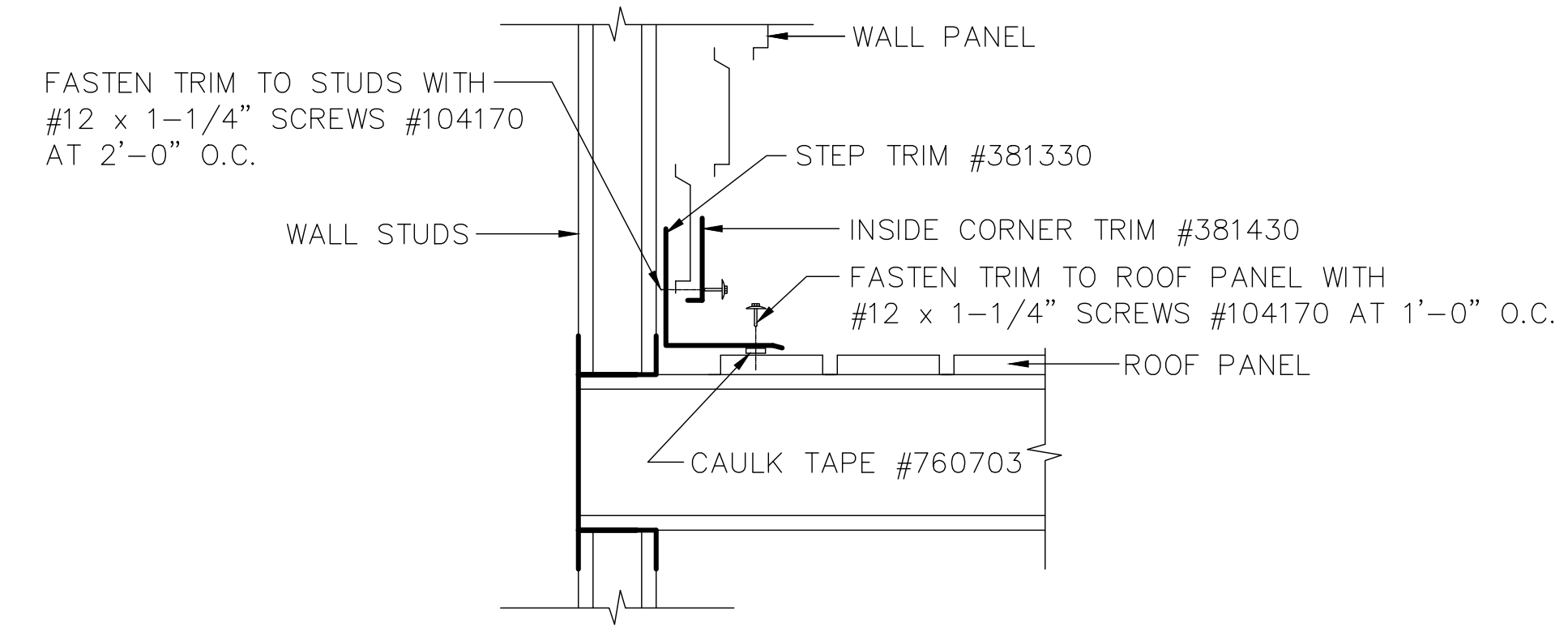
Date: DECEMBER 10, 2021
 Drawn by: WDM
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 Order No. FTE-796 / #244368
 Sheet No.



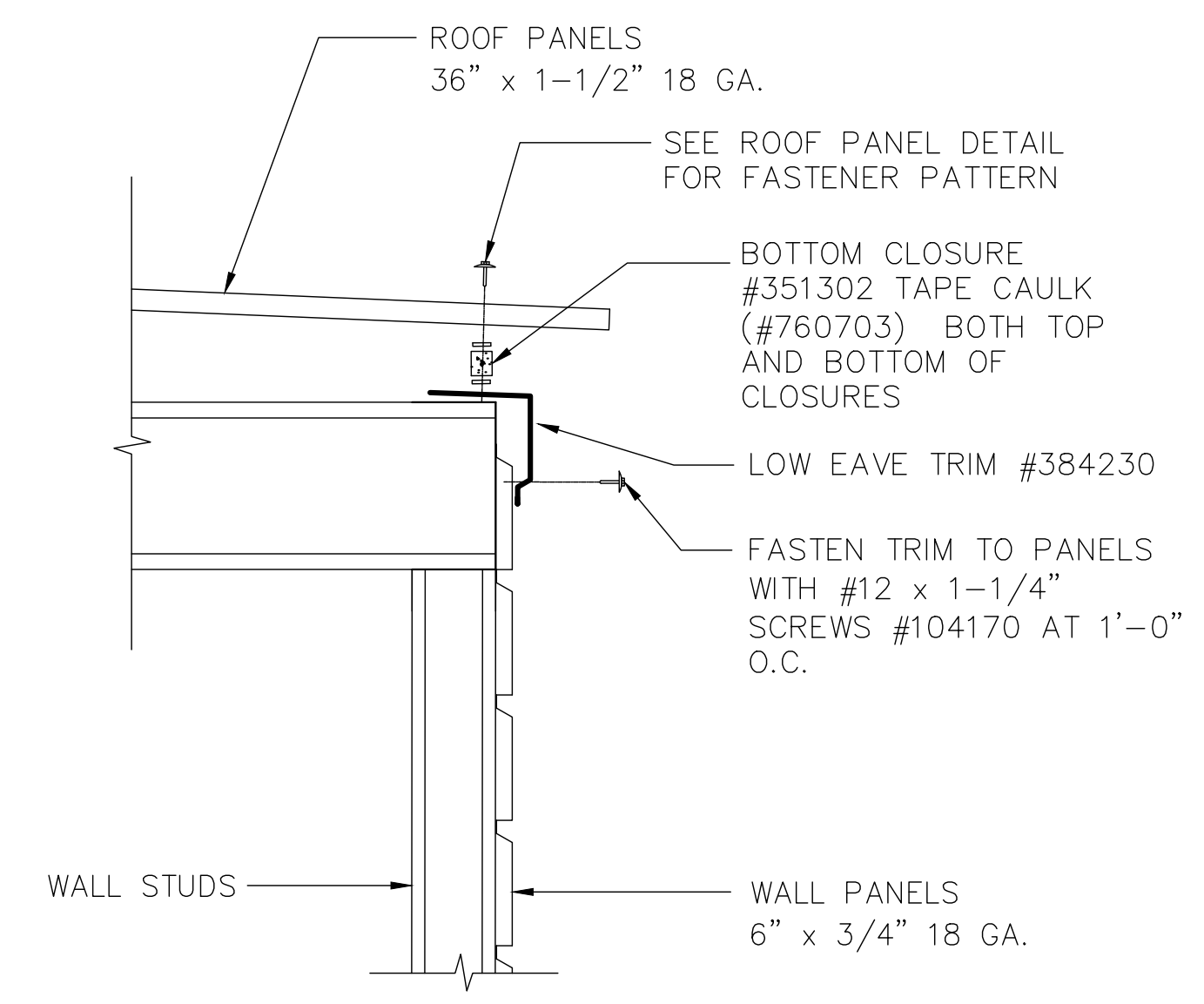
TYPICAL RAKE TRIM DETAIL



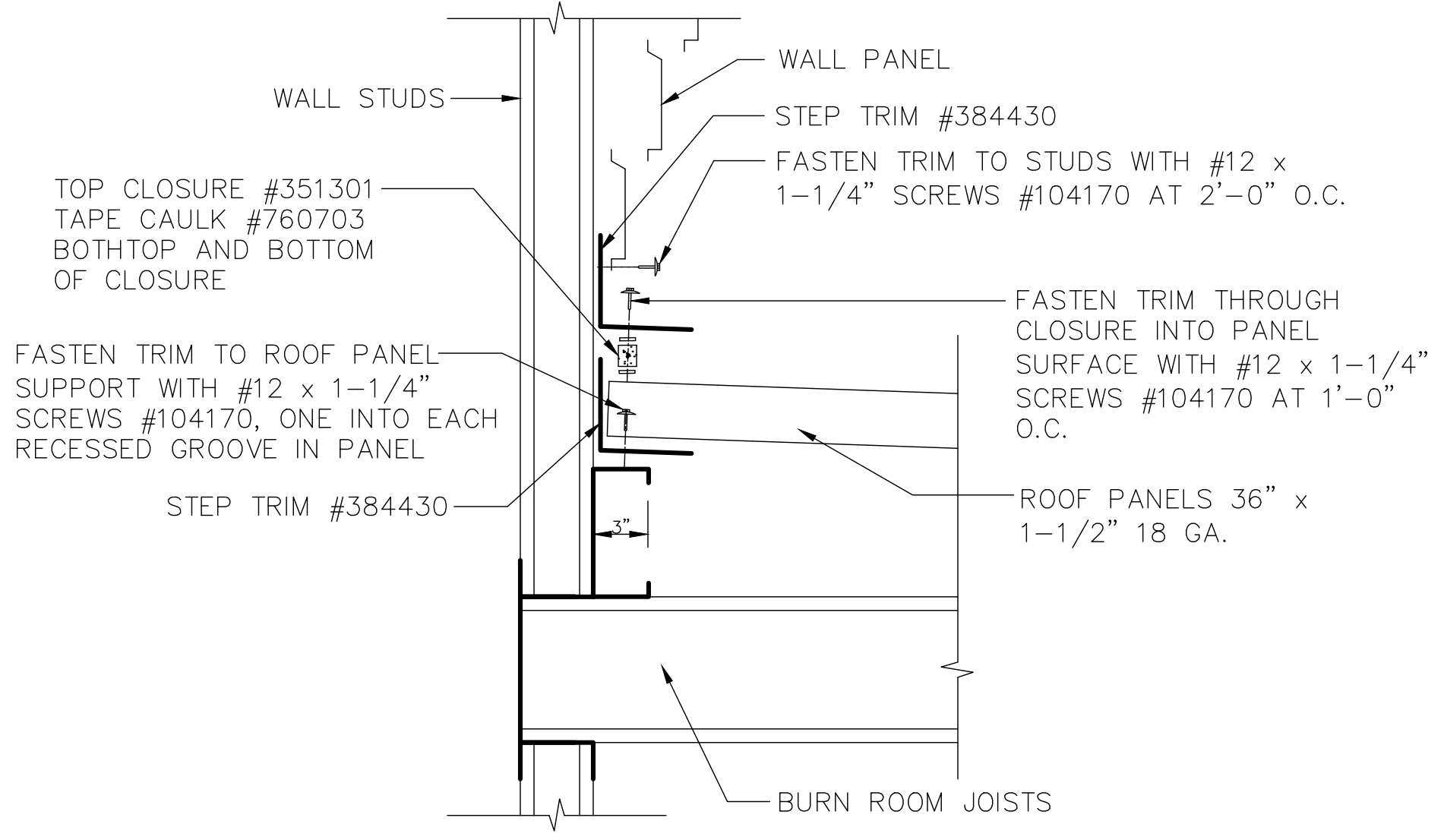
RESIDENCE RIDGE TRIM DETAIL



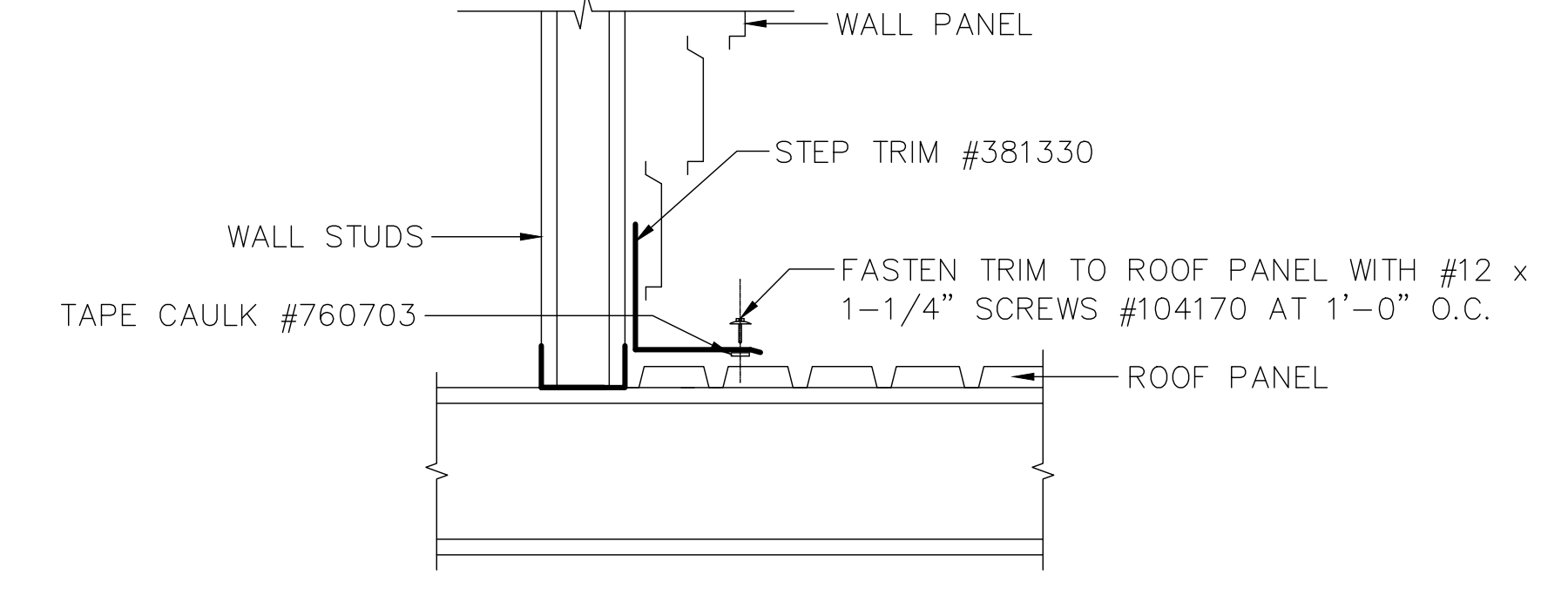
TOWER/GABLED RESIDENCE STEP TRIM DETAIL



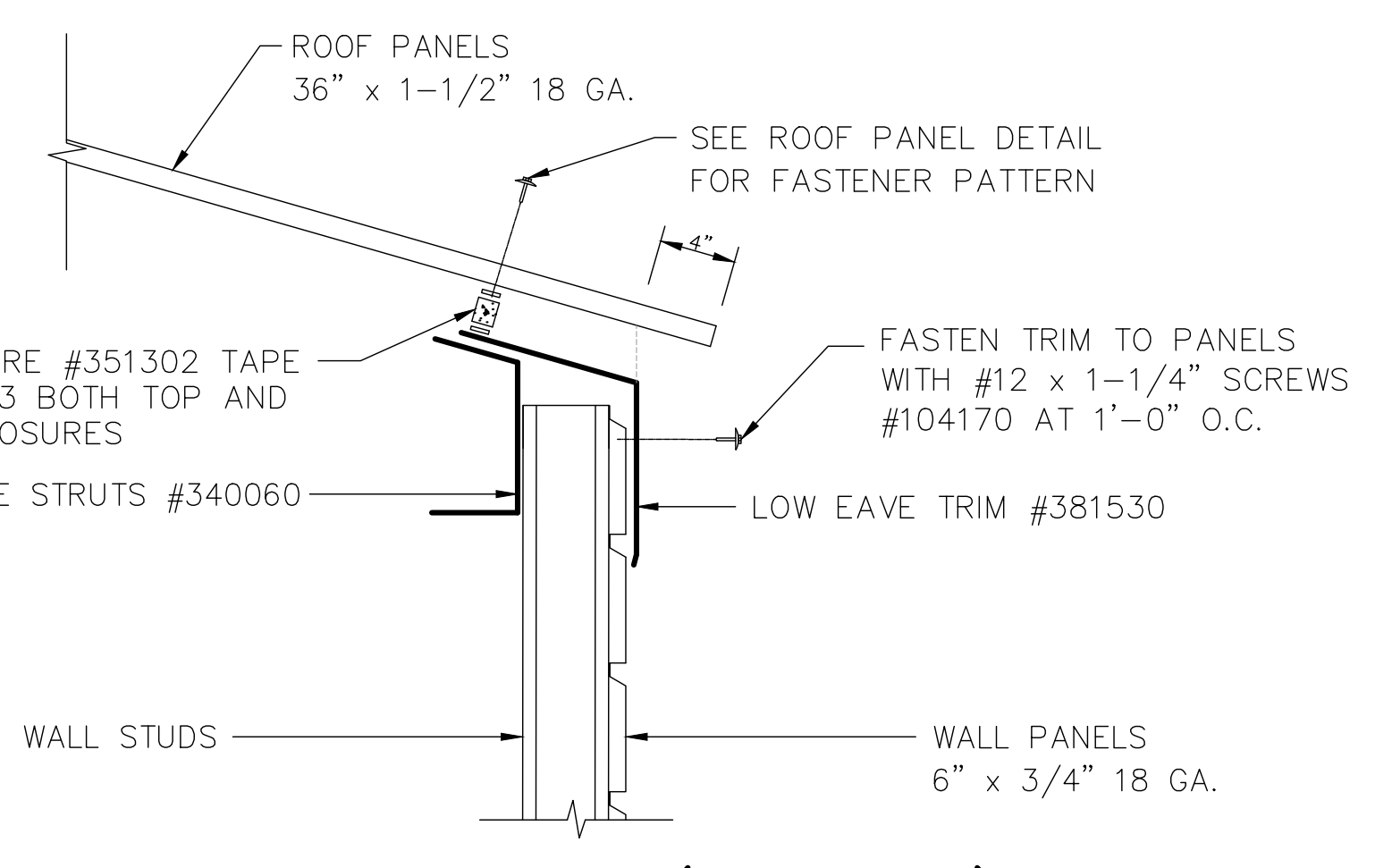
ANNEX EAVE TRIM DETAIL



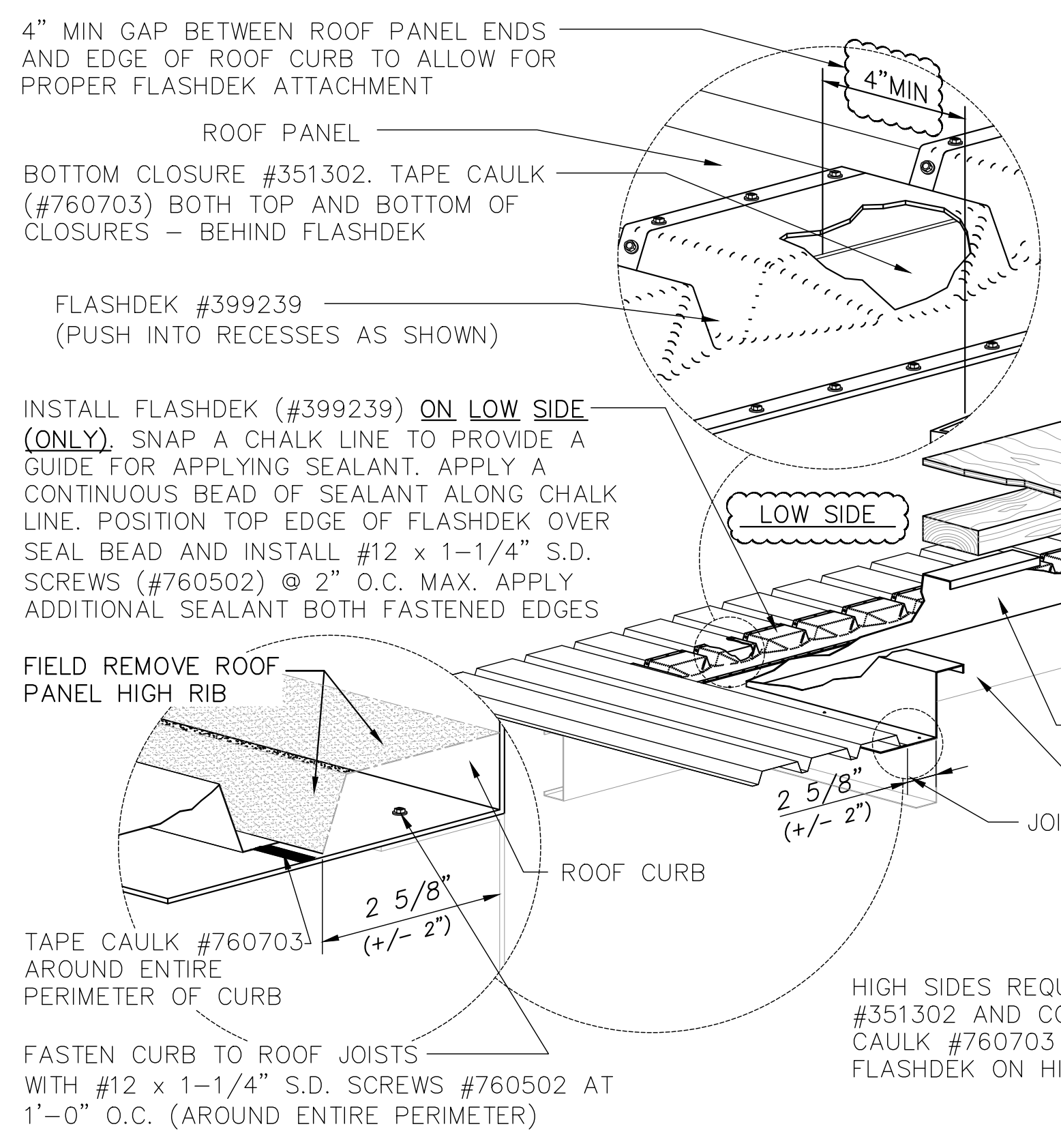
RESIDENCE/ANNEX STEP TRIM DETAIL



GABLED RESIDENCE TO FLAT RESIDENCE ROOF STEP TRIM

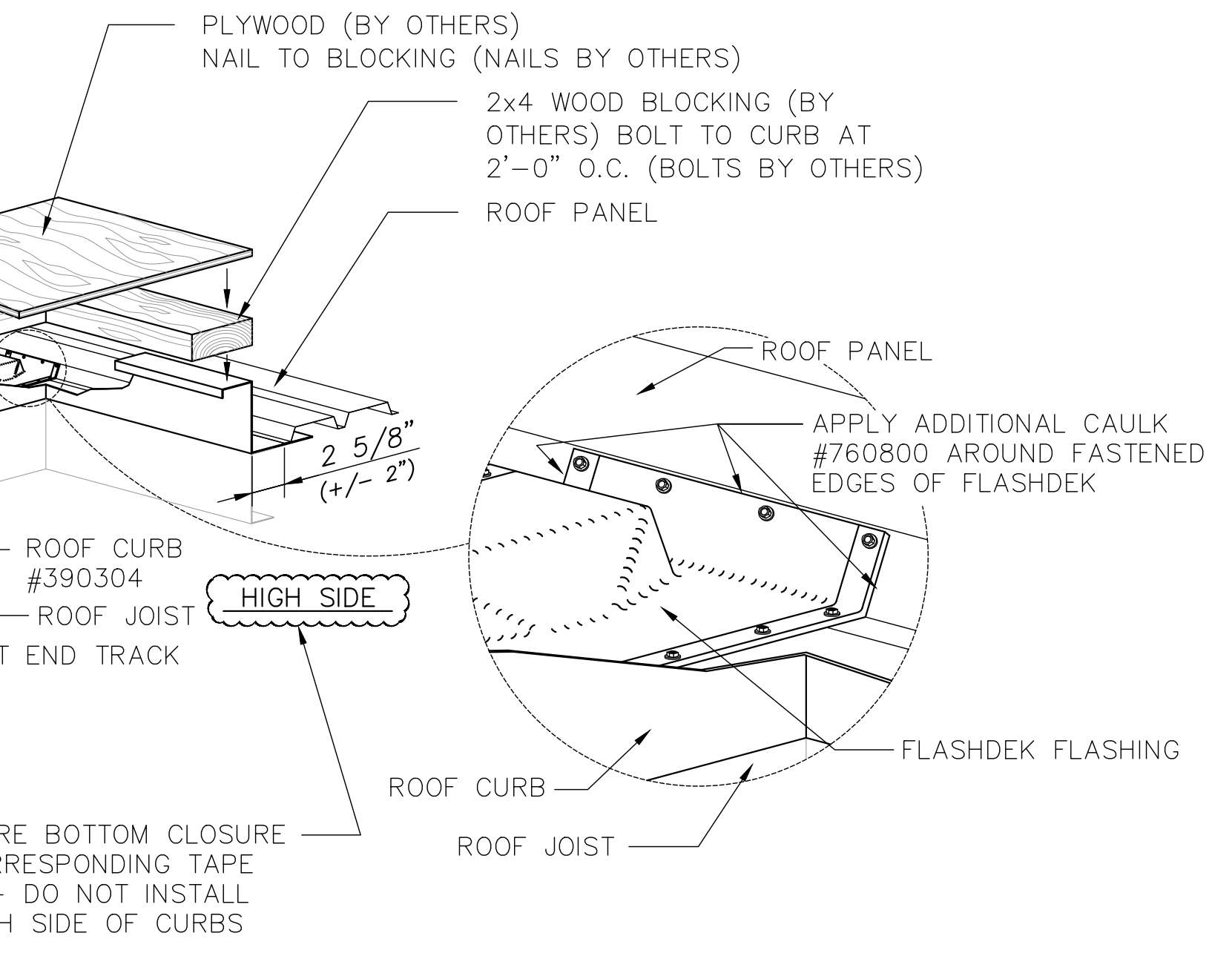


TYPICAL EAVE TRIM DETAIL (RESIDENCE)



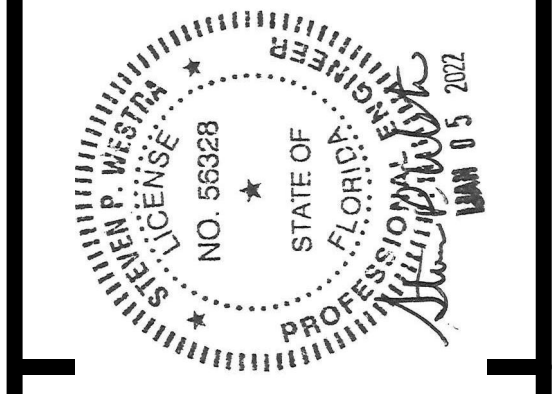
SLOPED ROOF CHOP-OUT CURB INSTALLATION DETAIL (SLOPED ROOF SYSTEMS ONLY)

IMPORTANT:
RECOMMEND POSITIONING ROOF PANELS ON ROOF **STARTING AT ROOF** CURB AND WORKING OUT FROM THAT POINT. POSITION ROOF PANEL 2 5/8" (+/- 2") FROM EDGE OF CURBS AS SHOWN BELOW.



BILCO ROOF HATCH INSTALLATION DETAIL

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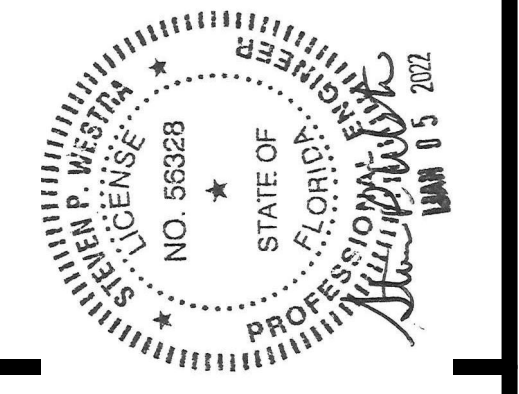
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Job Description: **WESCO MODEL FF-4**
CUSTOM CRESTVIEW, FL
Sheet Title: MISC. DETAILS CONT.

Date: DECEMBER 10, 2021
Drawn by: WDM
Checked by: SPW
Scale: SHOWN
Order No. FTE-796 / #244368
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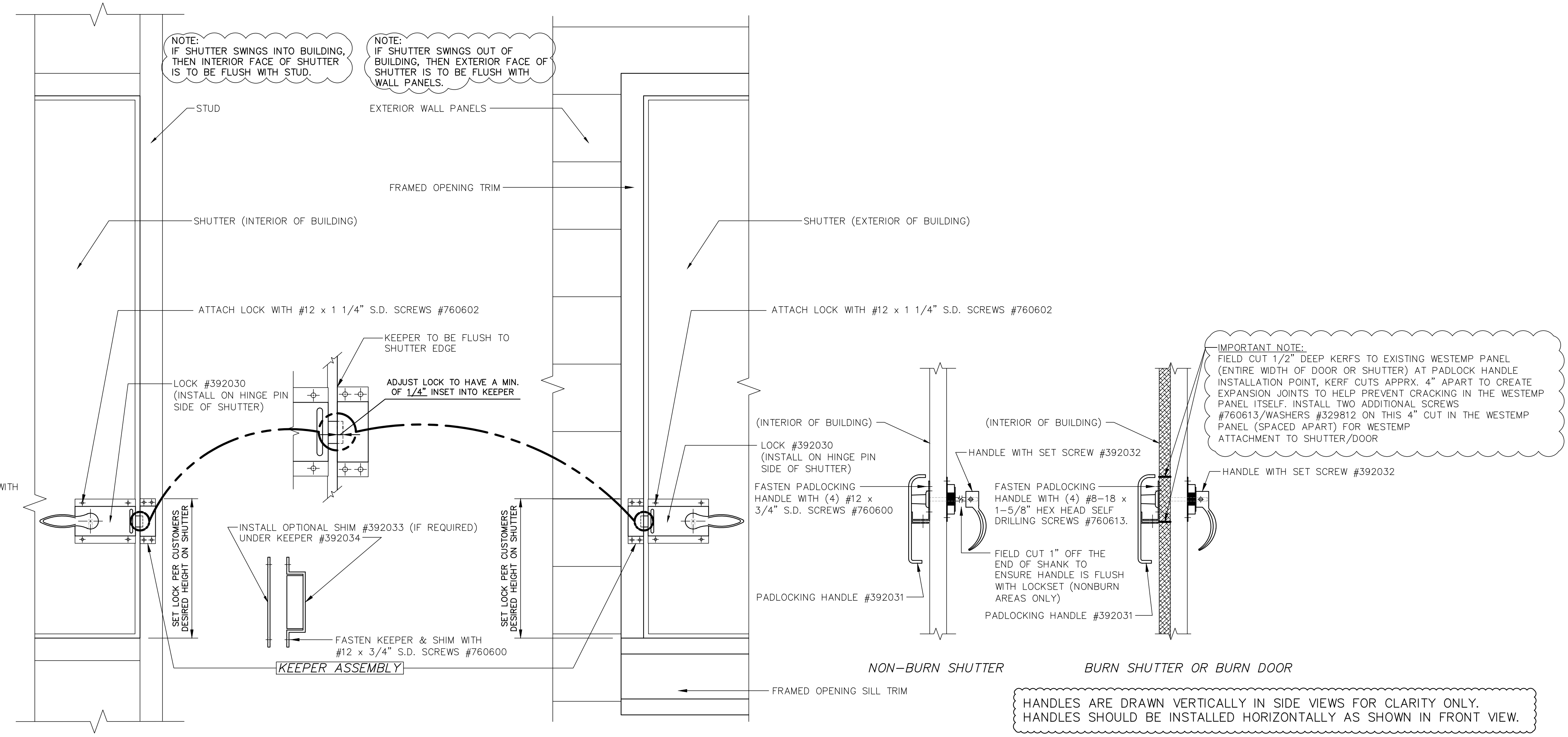
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Job Description: **WESCO MODEL FF-4**
CUSTOM CRESTVIEW, FL
Sheet Title: MISC. DETAILS CONT.

Date: DECEMBER 10, 2021
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SWING IN SHUTTER HANDLE INSTALLATION

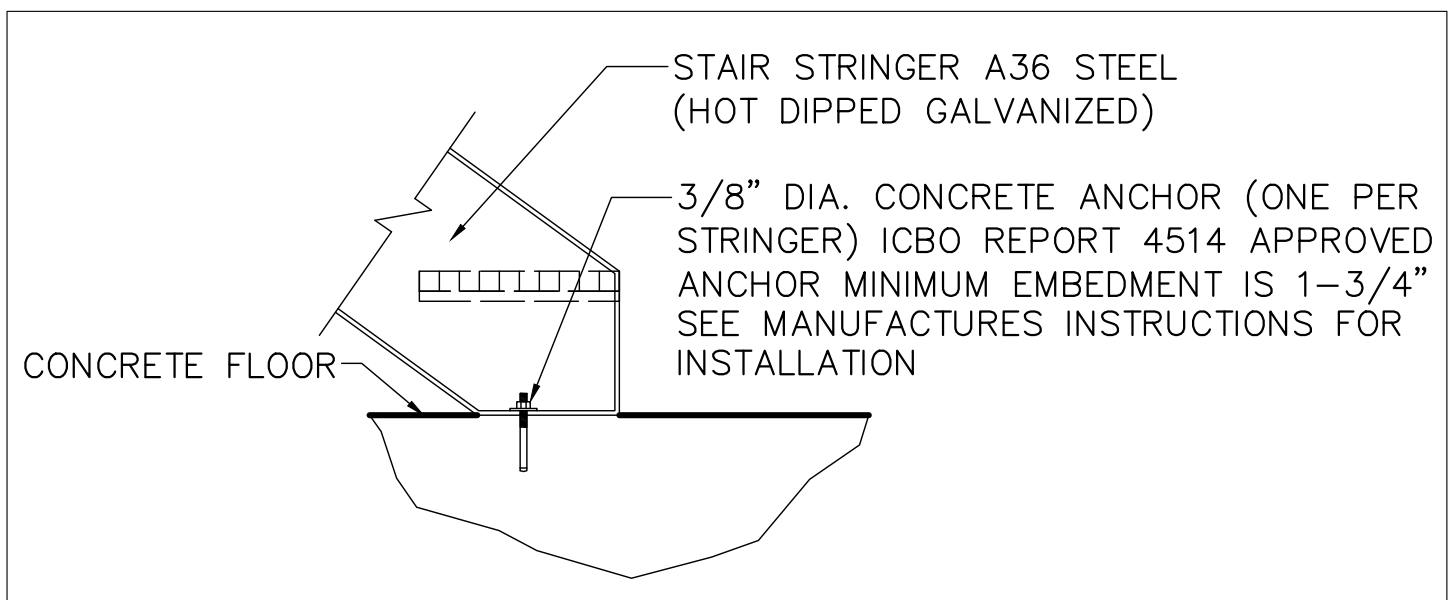
SCALE: 1/8" = 1'-0"

SWING OUT SHUTTER HANDLE INSTALLATION

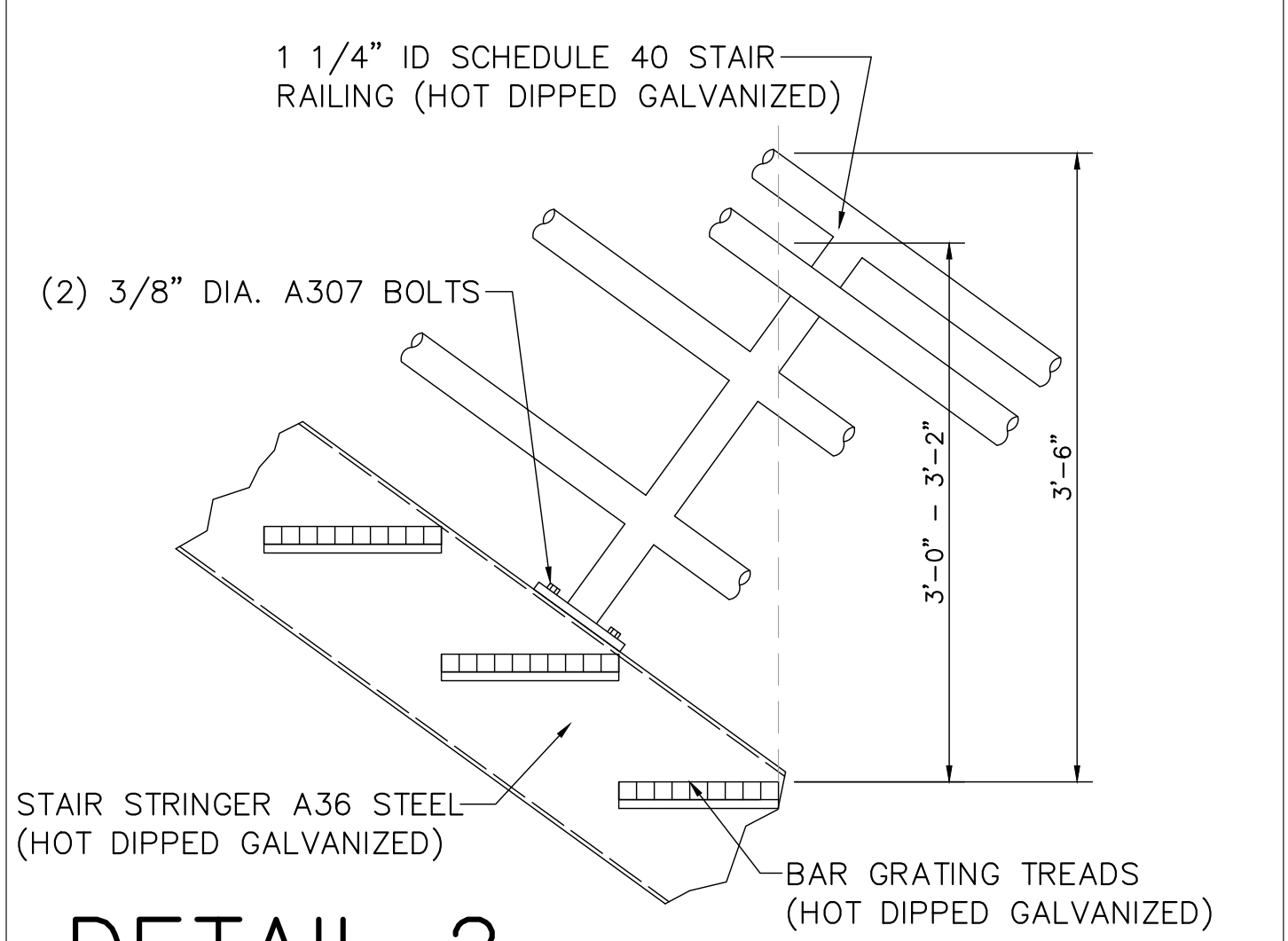
SCALE: 1/8" = 1'-0"

HANDLES ARE DRAWN VERTICALLY IN SIDE VIEWS FOR CLARITY ONLY. HANDLES SHOULD BE INSTALLED HORIZONTALLY AS SHOWN IN FRONT VIEW.

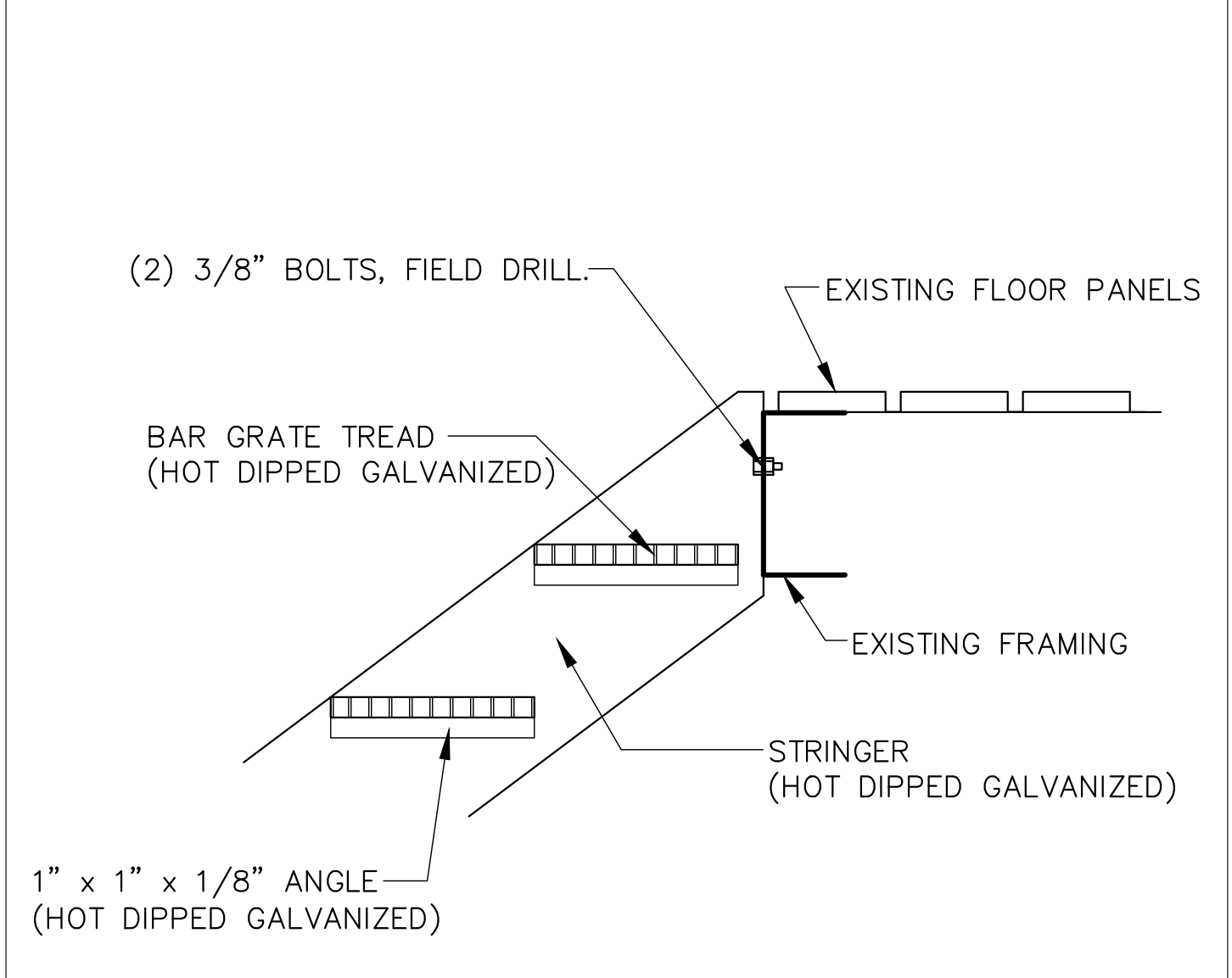
HANDLES ARE DRAWN VERTICALLY IN SIDE VIEWS FOR CLARITY ONLY. HANDLES SHOULD BE INSTALLED HORIZONTALLY AS SHOWN IN FRONT VIEW.



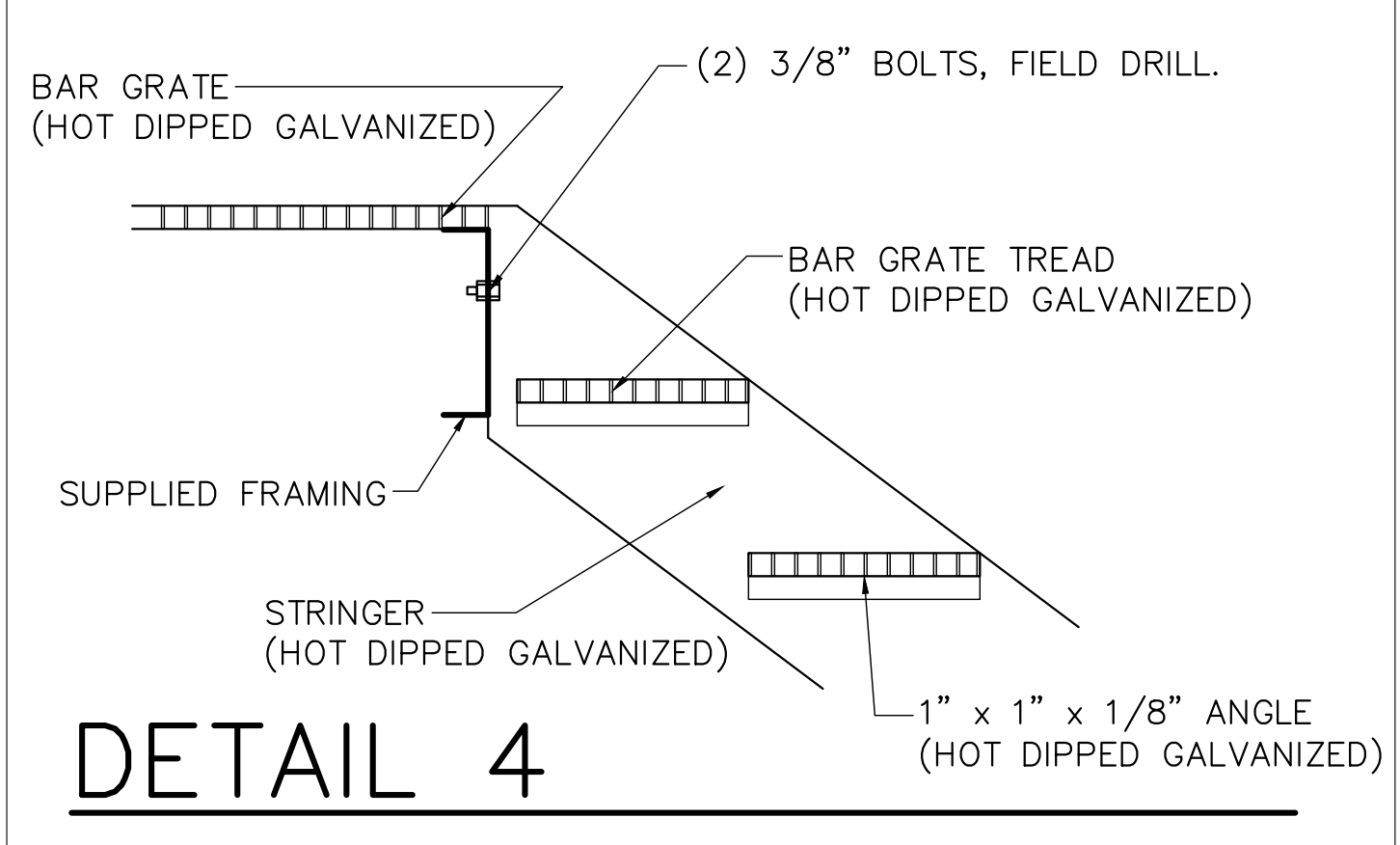
DETAIL 1



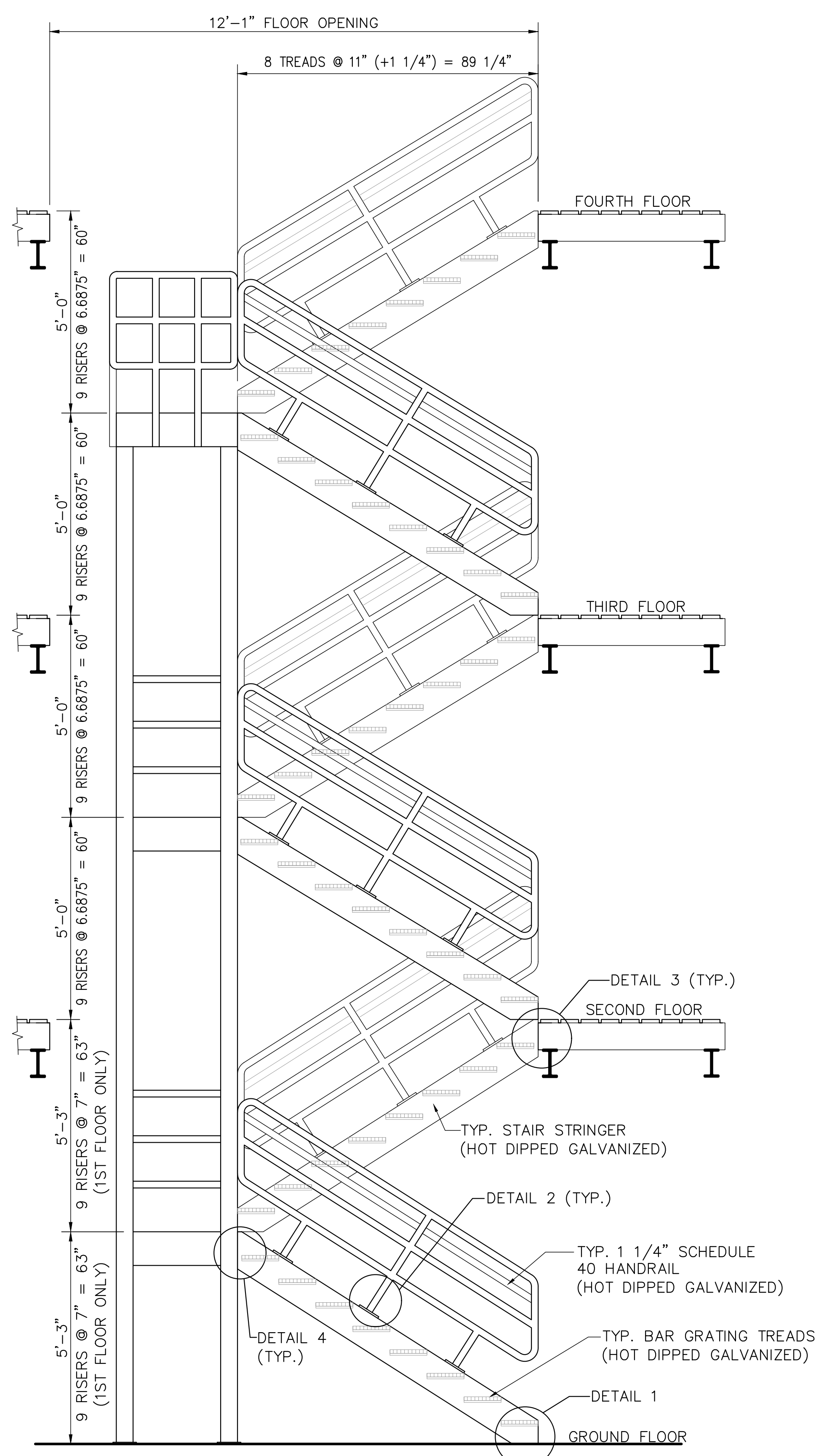
DETAIL 2



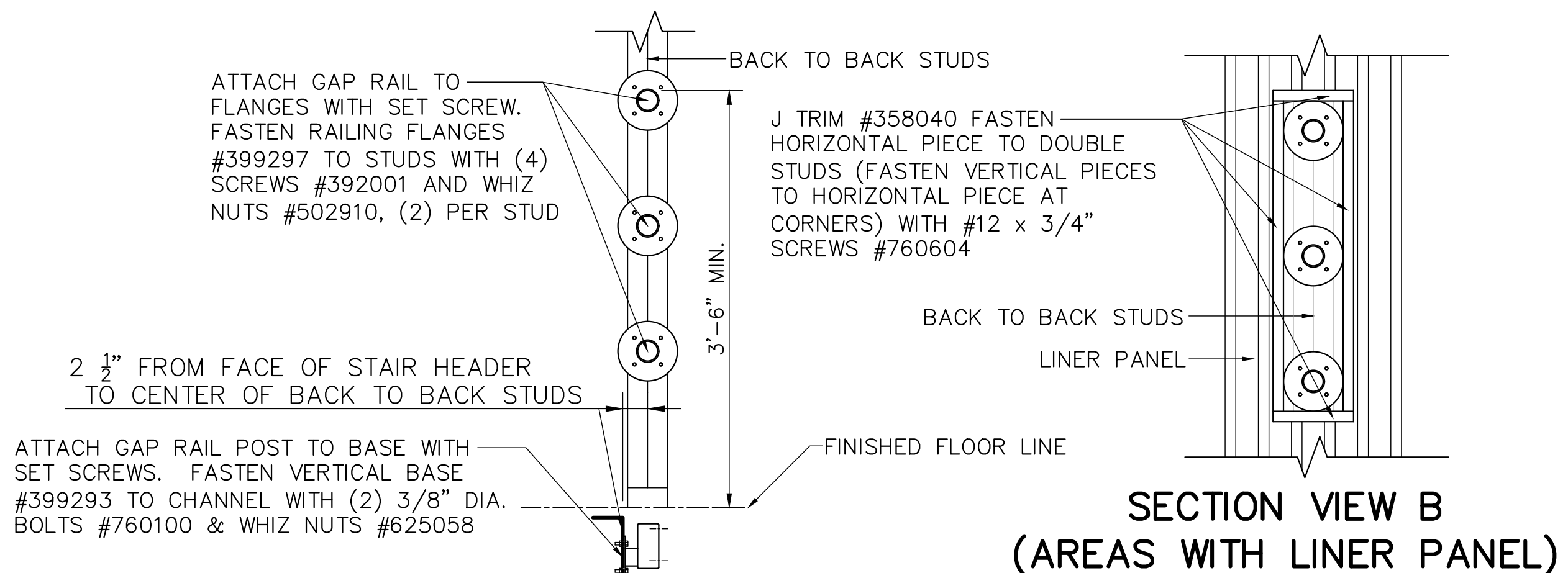
DETAIL 3



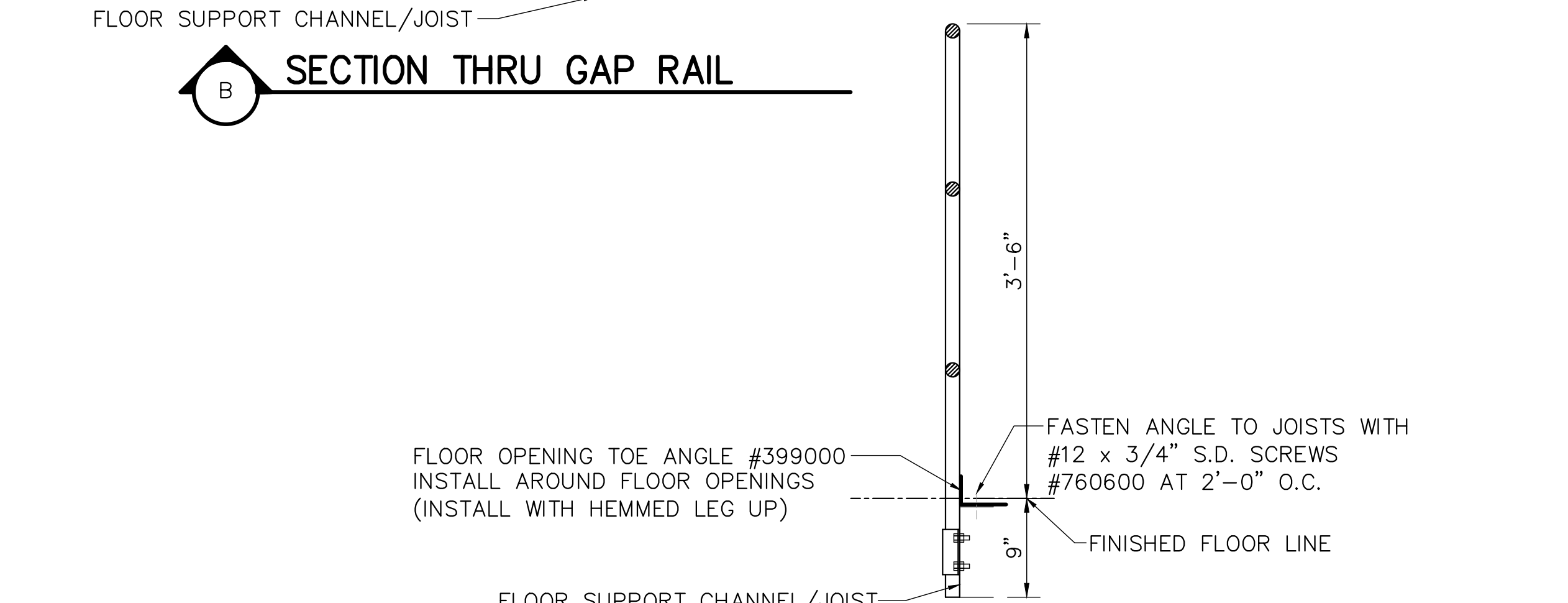
DETAIL 4



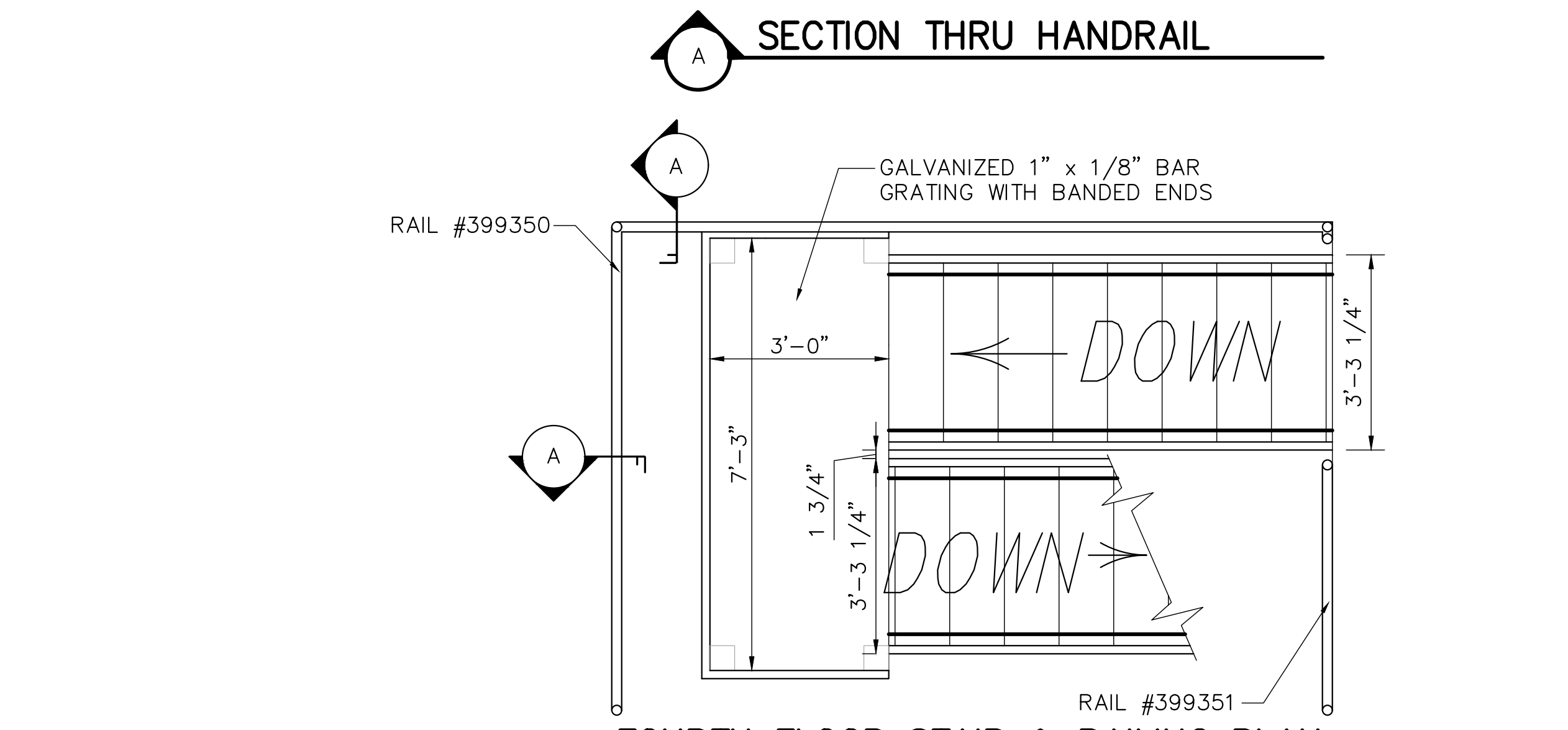
SECTION THRU STAIRS scale: N.T.S.



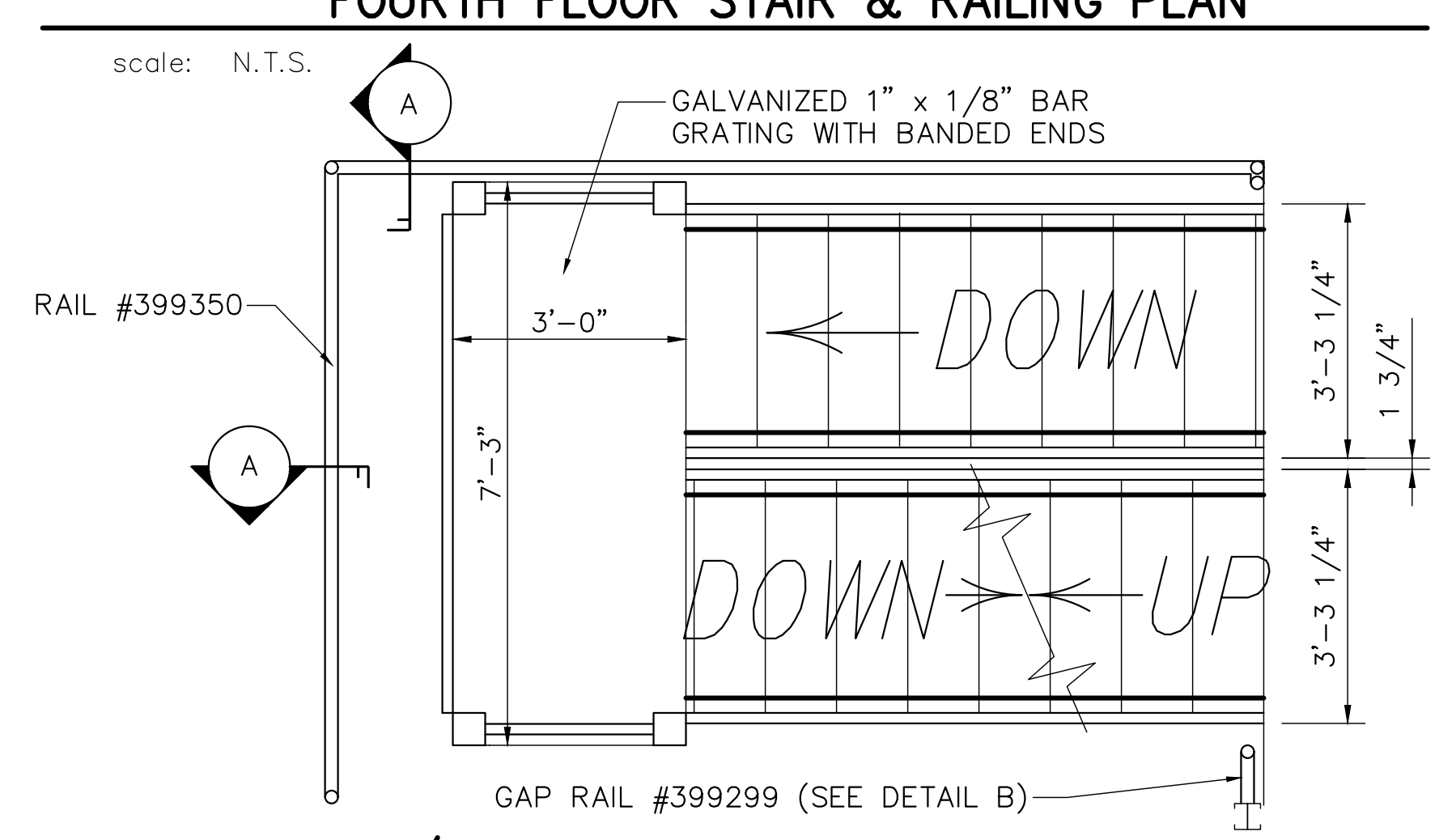
SECTION VIEW B (AREAS WITH LINER PANEL)



SECTION THRU GAP RAIL



SECTION THRU HANDRAIL

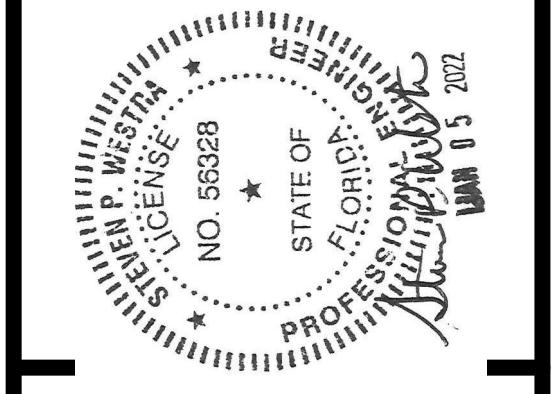


FOURTH FLOOR STAIR & RAILING PLAN



SECOND/THIRD FLOOR STAIR & RAILING PLAN

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Job Description:	WESCO MODEL FF-4 CUSTOM CRESTVIEW, FL
Date:	DECEMBER 10, 2021
Drawn by:	WDM
Checked by:	SPW
Scale:	SHOWN
Order No.:	FTE-796 / #244368
Sheet No.:	STAIRS