







REVISIONS	BY

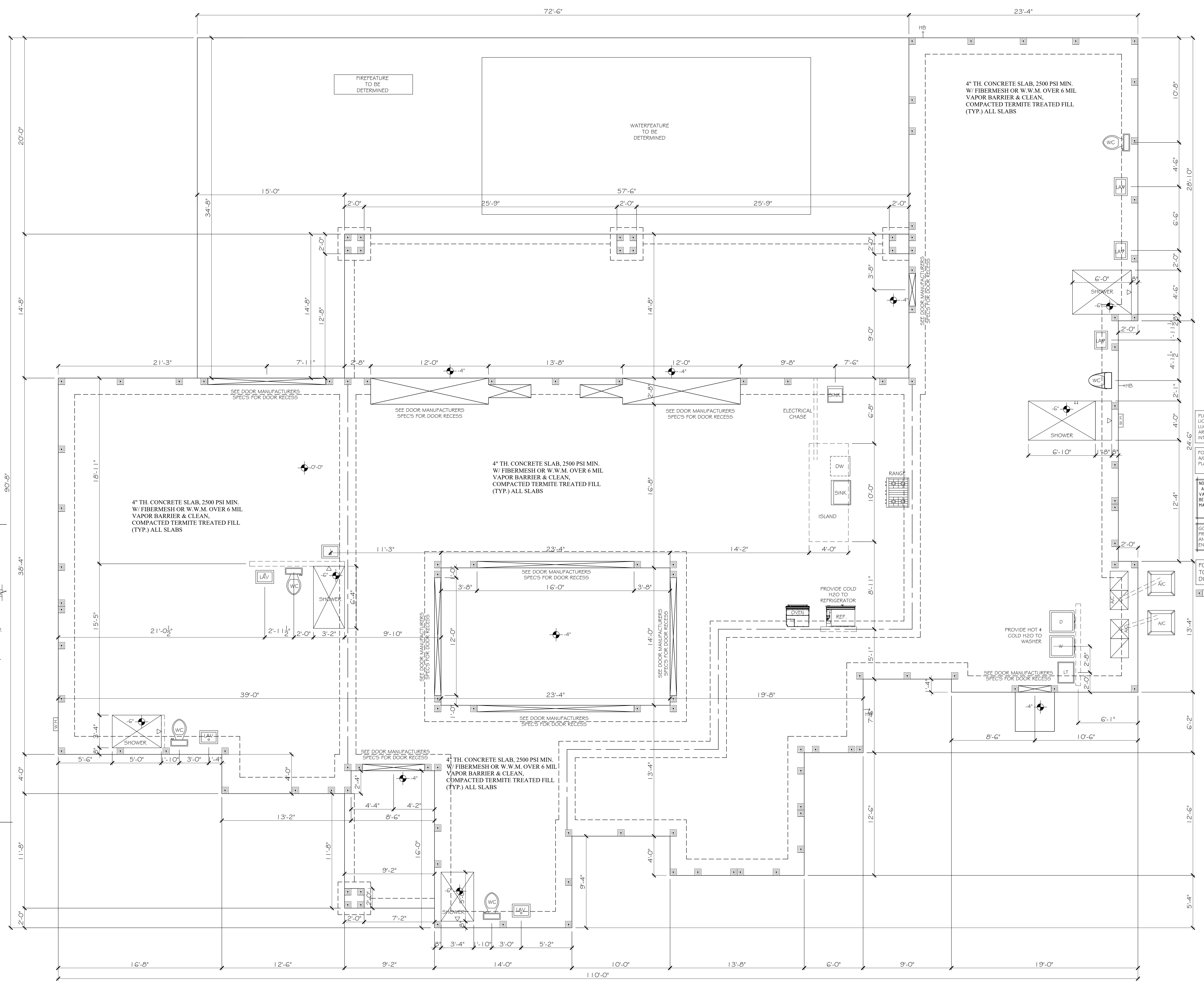
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11-407-442-3497

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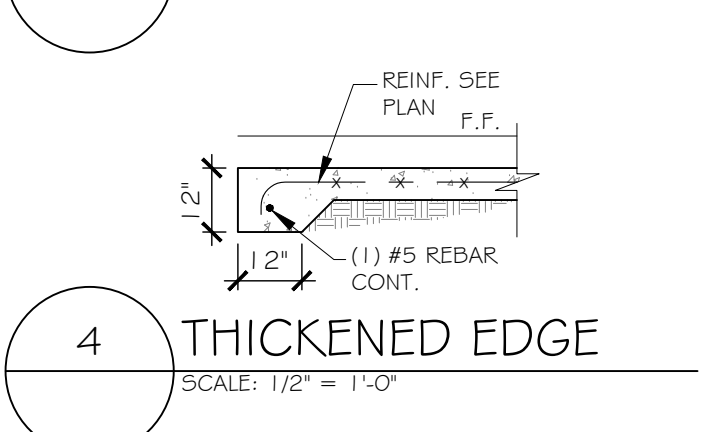
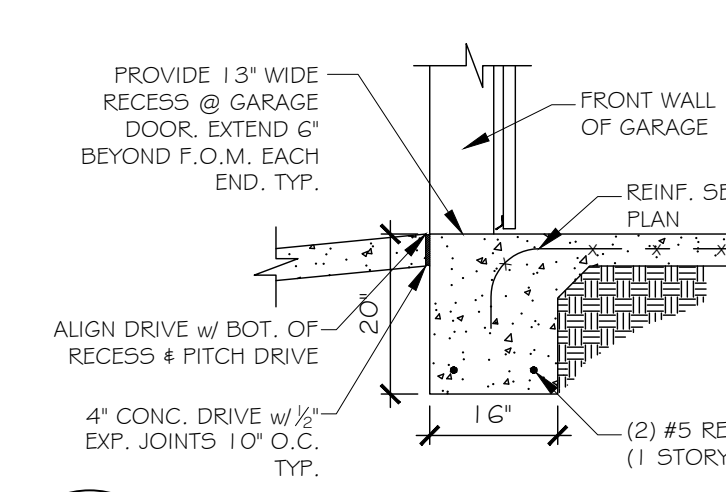
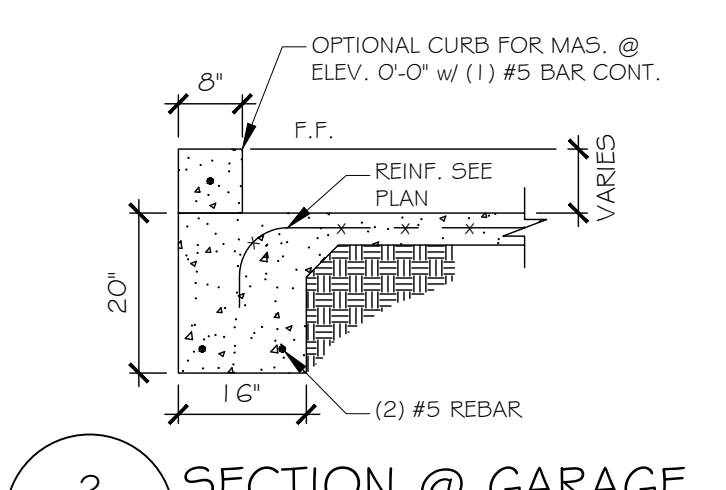
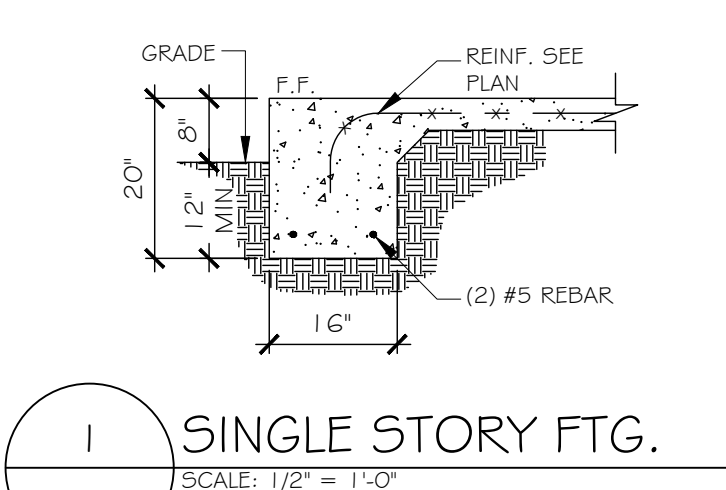
LP STRUCTURAL DESIGN, LLC  
223 MAGNOLIA CIRCLE CIRCLE  
EUSTIS, FLORIDA 32726  
352-989-1935  
PEF: 47617

CUSTOM DESIGN FOR THE:  
**CASTILLO RESIDENCE**  
LOT 11, STATE ROAD 44  
EUSTIS, FLORIDA 32736

DATE: \_\_\_\_\_  
SCALE: NOTED  
DRAWN: EML  
JOB: \_\_\_\_\_  
SHEET: **3**  
OF: 5 SHEETS



FOUNDATION PLAN - MONO  
SCALE: 1/4" = 1'-0"



PLUMBING DESIGN PROVIDED BY LICENSED SUBCONTRACTOR LUCIA AND SILVESTRE ENGINEERING. NOT LIABLE FOR DESIGN AND OR INTENT.

FOR PLUMBING, ELECTRICAL, GAS AND A/C FIXTURES, REFER TO PLUMBING PLAN ON ARCHITECTURAL PLANS.

NOTE: ALL PLUMBING DIMENSIONS MAY VARY. ALL DIM. AND LOCATIONS TO BE VERIFIED BY CONTRACTOR WITH MANUFACTURER/OWNER.

GC SHALL REVIEW ALL DIMENSIONS PRIOR TO WORK COMMENCEMENT AND INFORM ARCHITECT / ENGINEER OF ANY DISCREPANCIES.

FOR ADDITIONAL DIMENSIONS REFER TO ARCHITECTURAL FLOOR PLAN DIMENSIONING.

8"x16"x8" CMU WALL WITH GROUTED CELLS AND STEEL REINF. AS SHOWN TOP OF WALL AT 10'-0"

**DWELLING / GARAGE SEPARATION** (TABLE R302.6)

SEPARATION	MATERIAL
FROM RESIDENCE AND ATTICS	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT TO THE GARAGE SIDE
FROM HABITABLE ROOMS ABOVE GARAGE	NOT LESS THAN 5/8 INCH TYPE X GYPSUM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA.

PER R702.3.5, SUPPORTS AND FASTENERS USED TO ATTACH GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL COMPLY WITH TABLE R702.3.5. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH TABLE R602.3(1). GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL BE APPLIED AT RIGHT ANGLES OR PARALLEL TO FRAMING MEMBERS. ALL EDGES AND ENDS OF GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS. INTERIOR GYPSUM BOARD SHALL NOT BE INSTALLED WHERE IT IS DIRECTLY EXPOSED TO THE WEATHER OR TO WATER.

**PLAN NOTES:**

- OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL HAVE A 20 MIN. FIRE RATED DOOR OR SOLID WOOD DOOR NOT LESS THAN 1 AND 3/4 INCHES IN THICKNESS OR SOLID OR HONEYCOMB DOOR. DOOR SHALL BE EQUIPPED WITH AUTOMATIC CLOSER.
- PROVIDE 2X BLOCKING AT MIDPOINT ON ALL INTERIOR STUD WALLS.

**WINDOW SCHEDULE**

TAG	WIDTH	HGT.	QTY.	NOTES
A	3'-0"	6'-0"	13	CASEMENT
B	3'-0"	4'-0"	1	CASEMENT
C	4'-0"	2'-0"	9	TRANSOM - FIXED GLASS
D	3'-0"	2'-0"	5	TRANSOM - FIXED GLASS
E	6'-0"	2'-0"	1	TRANSOM - FIXED GLASS

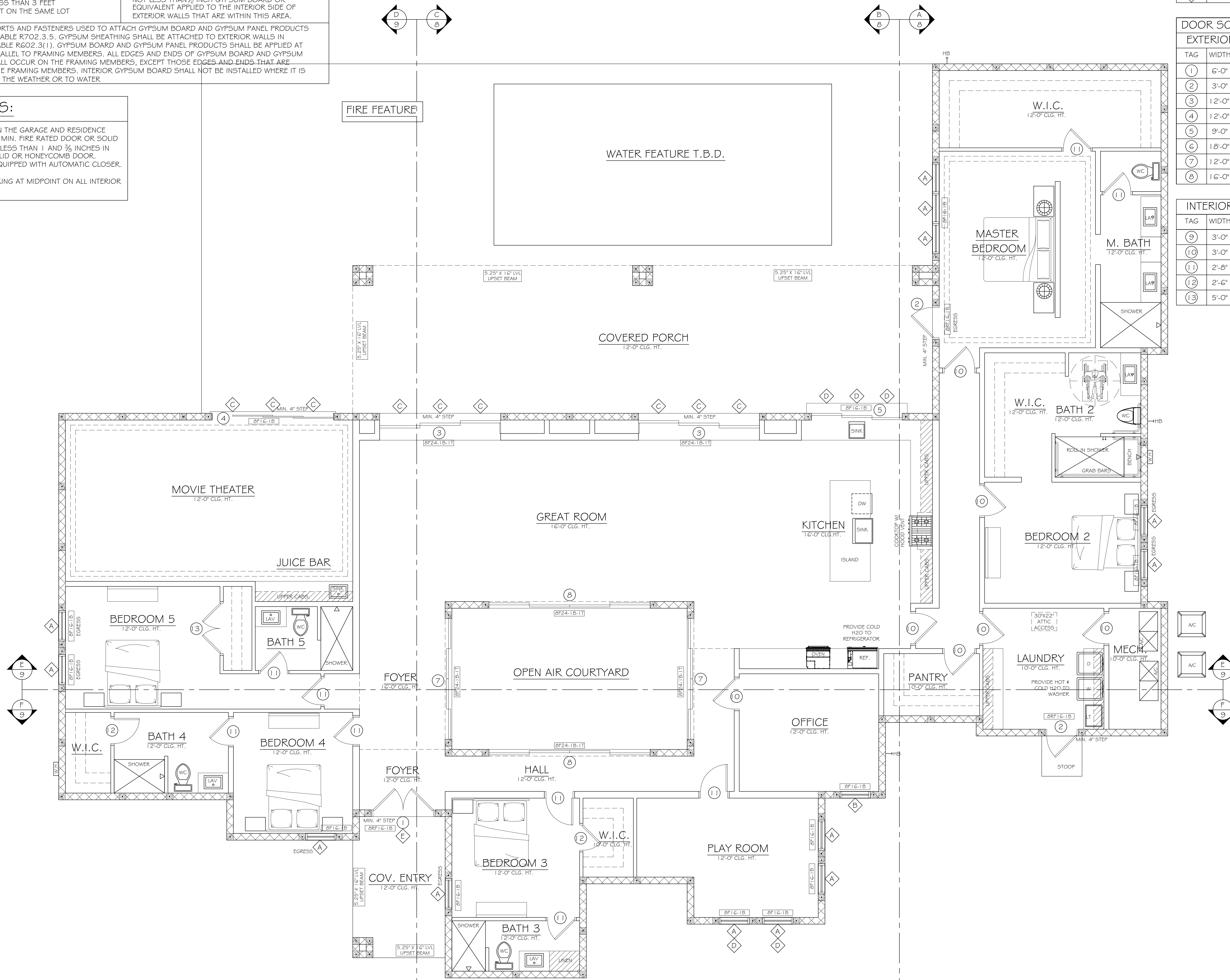
**DOOR SCHEDULE**

**EXTERIOR**

TAG	WIDTH	HGT.	QTY.	NOTES
1	6'-0"	8'-0"	1	DOUBLE FULL GLASS
2	3'-0"	8'-0"	2	FULL GLASS
3	12'-0"	8'-0"	2	3 - PANEL SGD POCKETING
4	12'-0"	8'-0"	1	3 - PANEL SGD
5	9'-0"	5'-0"	1	3 - PANEL SGD
6	18'-0"	8'-0"	0	OVERHEAD GARAGE DOOR
7	12'-0"	8'-0"	2	4 - PANEL SGD
8	16'-0"	8'-0"	2	4 - PANEL SGD

**INTERIOR**

TAG	WIDTH	HGT.	QTY.	NOTES
9	3'-0"	8'-0"	0	20 MIN. RATED / SOLID CORE
10	3'-0"	8'-0"	7	SWING / SOLID CORE
11	2'-8"	8'-0"	9	SWING / SOLID CORE
12	2'-6"	8'-0"	2	SWING / SOLID CORE
13	5'-0"	8'-0"	1	DBL SWING / SOLID CORE



**FLOOR PLAN - NOTED**  
SCALE: 1/4" = 1'-0"

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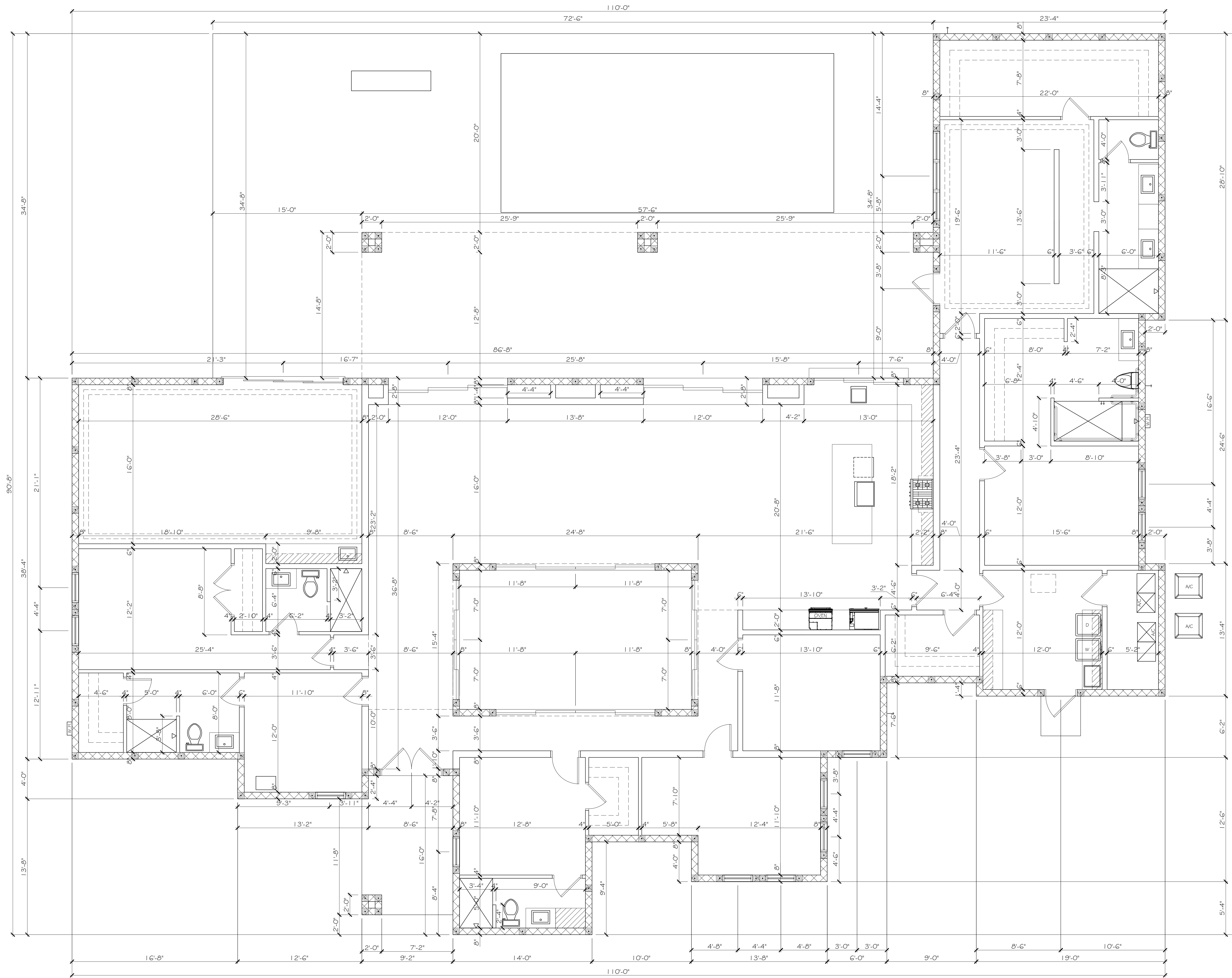
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**CUSTOM DESIGN FOR THE:**  
**CASTILLO RESIDENCE**  
LOT 11, STATE ROAD 44  
EUSTIS, FLORIDA 32736

DATE:  
SCALE: NOTED  
DRAWN: EML  
JOB:  
SHEET  
**4**  
OF SHEETS



**FLOOR PLAN - DIMENSIONS**

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

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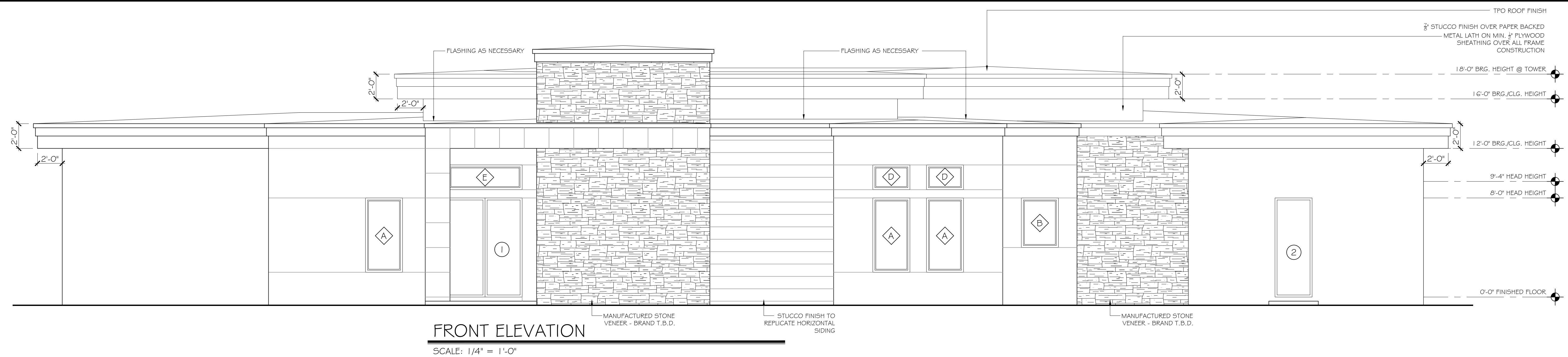
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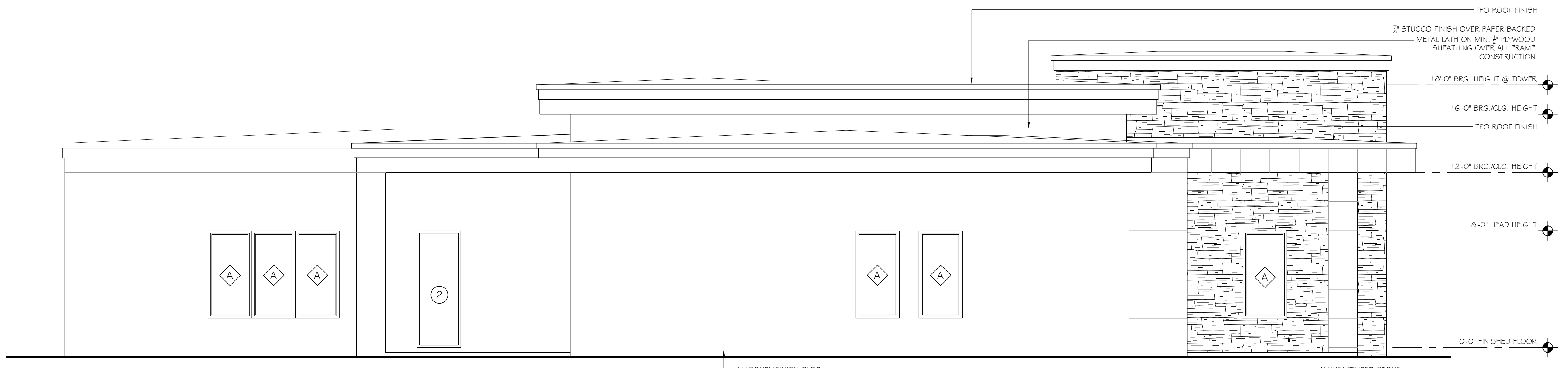
CUSTOM DESIGN FOR THE:  
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EUSTIS, FLORIDA 32736

DATE:  
SCALE: NOTED  
DRAWN: EML  
JOB:  
SHEET  
5  
OF 5 SHEETS



**FRONT ELEVATION**

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



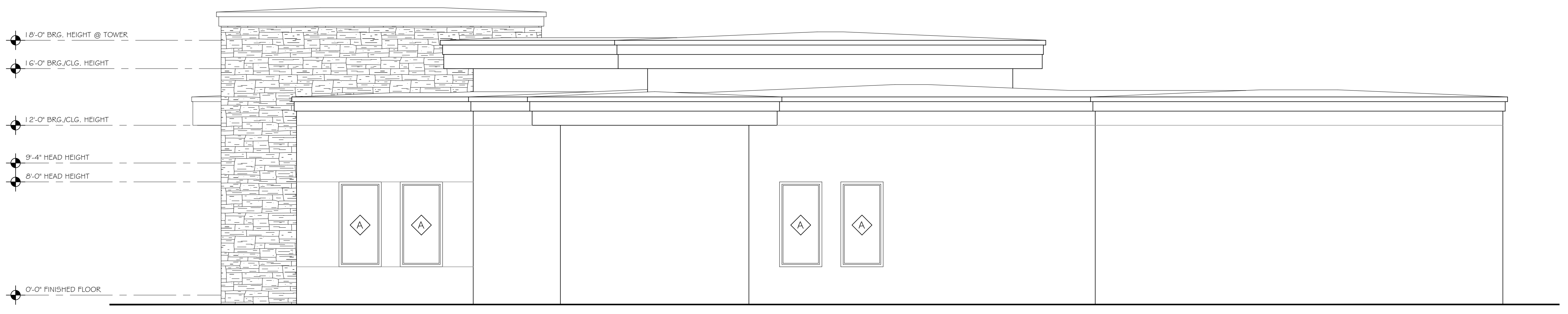
**LEFT ELEVATION**

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



**REAR ELEVATION**

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



**RIGHT ELEVATION**

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

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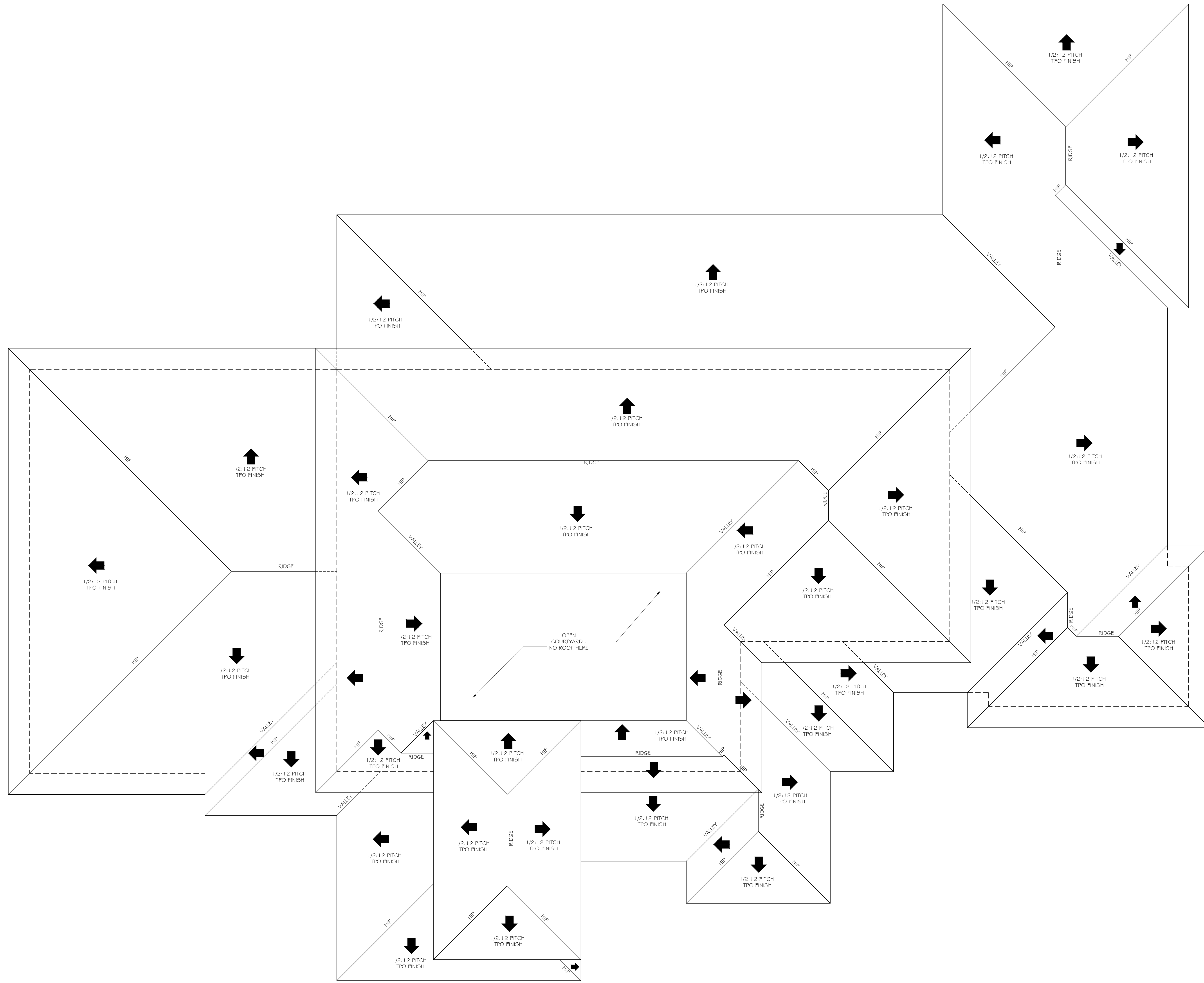
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DATE: \_\_\_\_\_  
SCALE: NOTED  
DRAWN: EML  
JOB: \_\_\_\_\_  
SHEET: \_\_\_\_\_  
OF \_\_\_\_\_ SHEETS



**REFERENCE ROOF PLAN**

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

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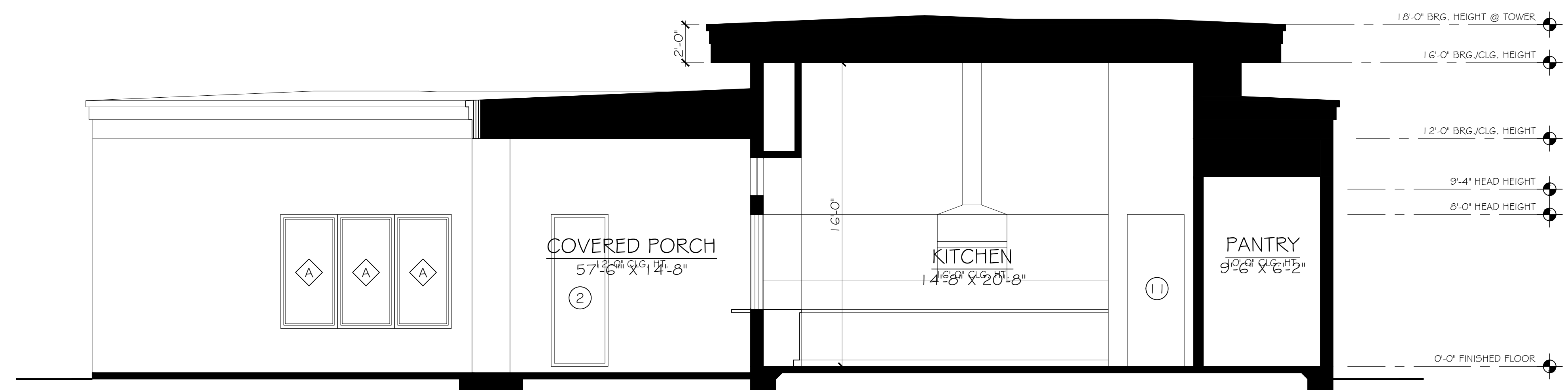
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**CASTILLO RESIDENCE**  
LOT 11, STATE ROAD 44  
EUSTIS, FLORIDA 32736

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SCALE:	NOTED
DRAWN:	EML
JOB:	
SHEET:	<b>7</b>
OF SHEETS:	





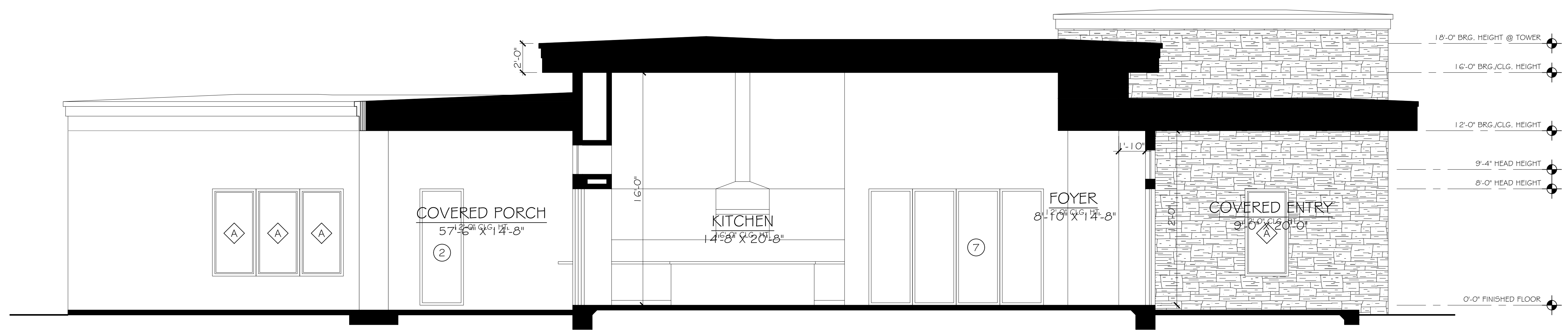




**BUILDING SECTION "A"**  
SCALE: 1/4" = 1'-0"



**BUILDING SECTION "B"**  
SCALE: 1/4" = 1'-0"



**BUILDING SECTION "C"**  
SCALE: 1/4" = 1'-0"

REVISIONS	BY

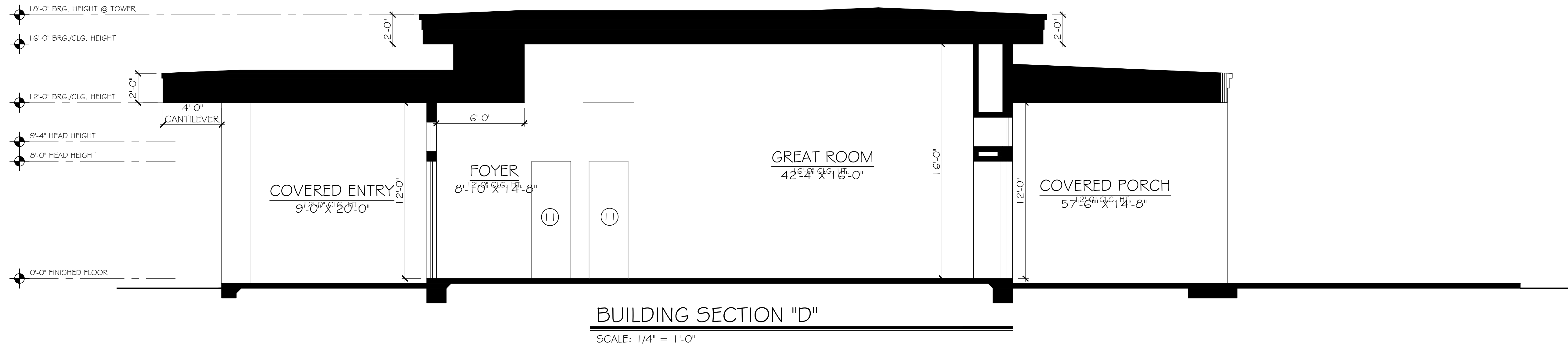
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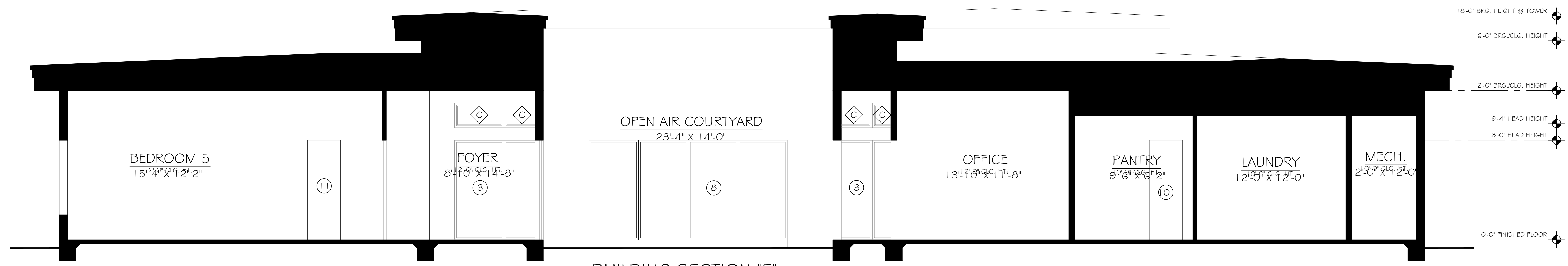
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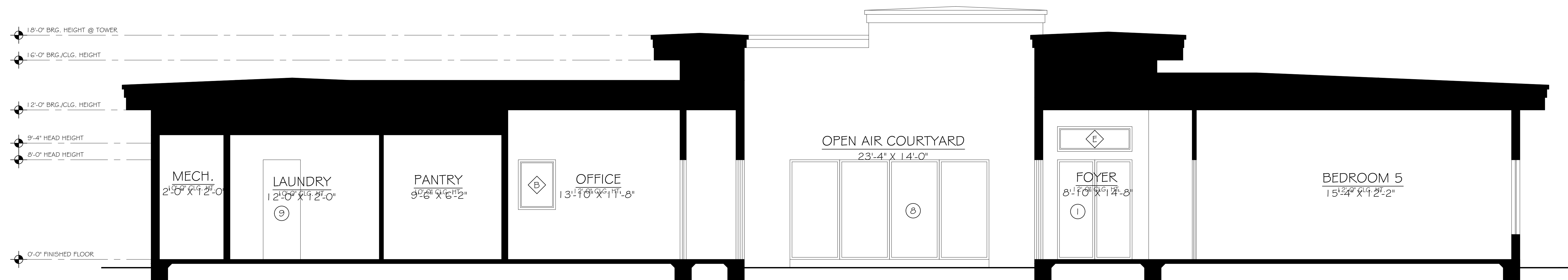
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SHEET: **08**  
OF SHEETS



**BUILDING SECTION "D"**  
SCALE: 1/4" = 1'-0"



**BUILDING SECTION "E"**  
SCALE: 1/4" = 1'-0"



**BUILDING SECTION "F"**  
SCALE: 1/4" = 1'-0"

REVISIONS	BY

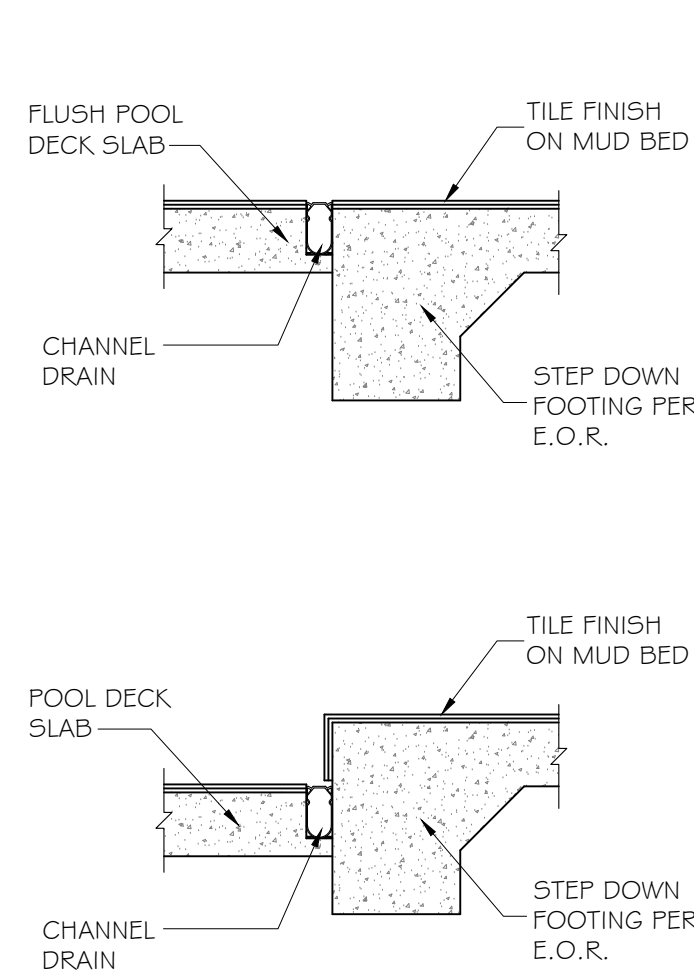
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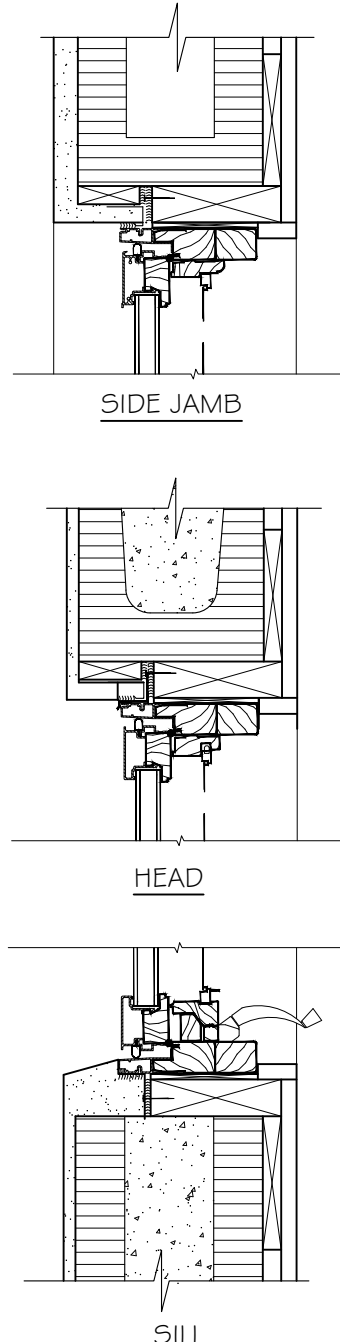
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SHEET: **9**  
OF SHEETS



**CHANNEL DRAIN DETAILS**

SCALE: 1" = 1'-0"

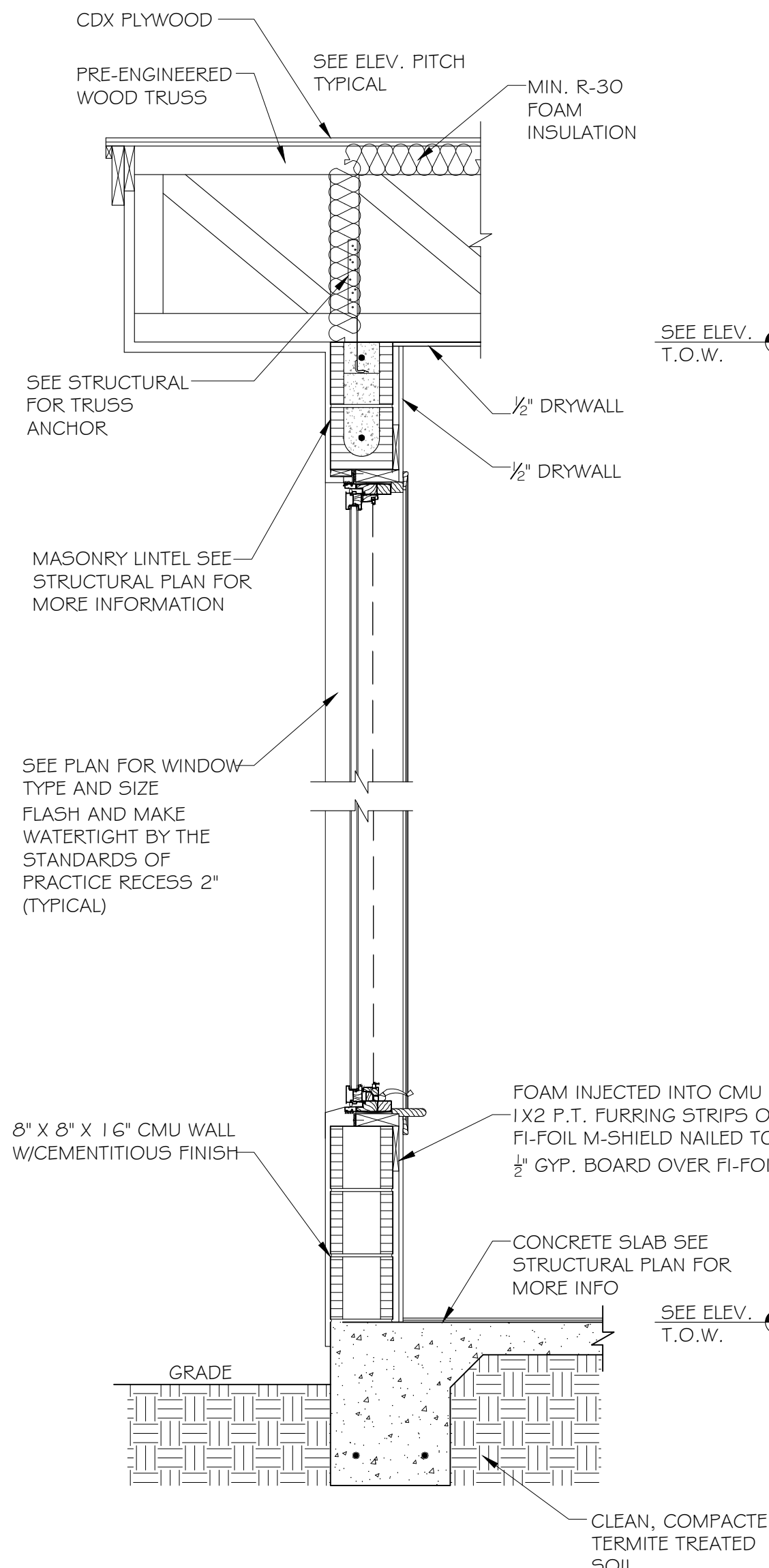
1. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
2. SEE DRAIN MANUFACTURE FOR INSTALLATION DETAILS AND DIMENSIONS.



**WINDOW DETAIL  
COMPOSITE FRAME WINDOW  
N.T.S. - DRYWALL RETURNS**

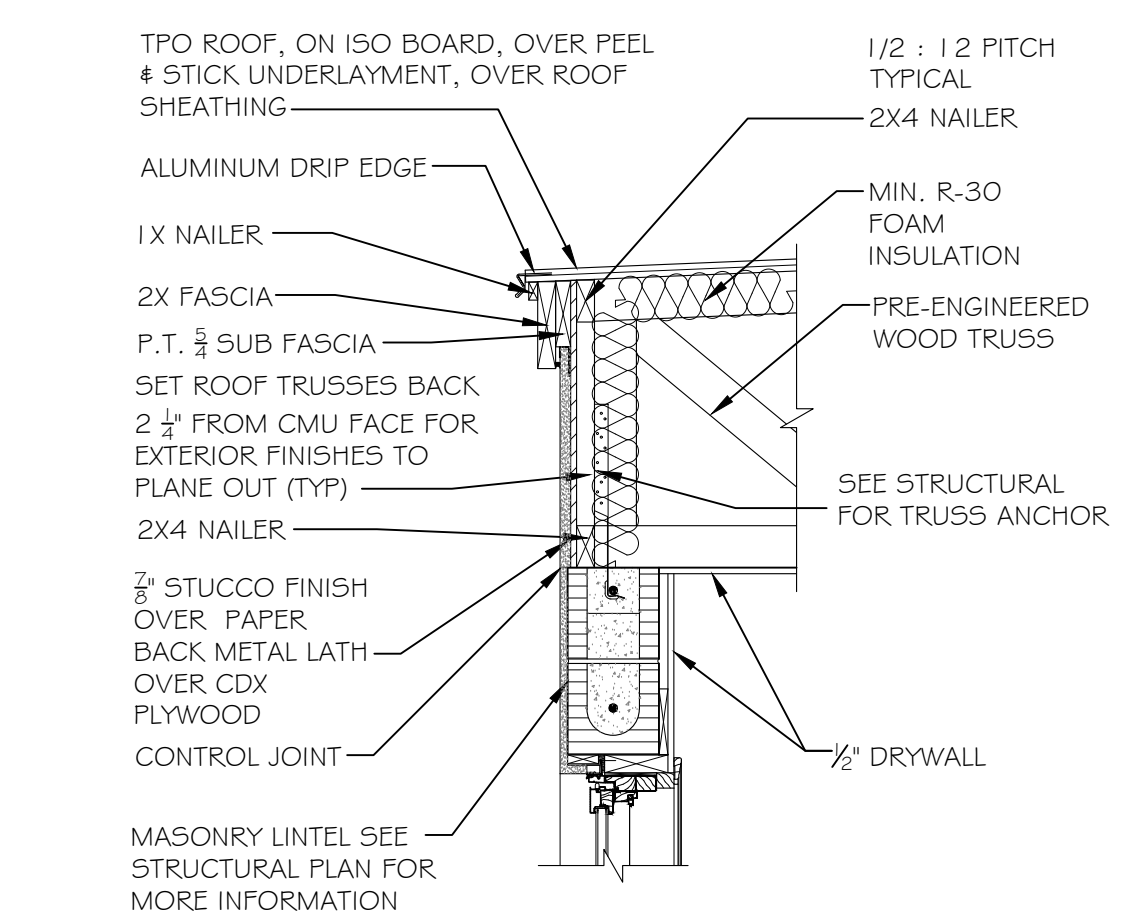
**PREPARATION OF WINDOW OPENING:**  
 - INSTALL PRESSURE TREATED WOOD BUCK TO PERIMETER OF OPENING USING TAPCON 3/16" X 3 1/2" OR EQUAL PROVIDING 500 LBS. SHEAR STRENGTH WITHIN 6" FROM CORNERS & 12" ON CENTER.  
 - APPLY A CONTINUOUS BEAD OF CAULKING TO SEAL WOOD BUCK TO MASONRY OPENING.  
 - INSURE THAT A CLEARANCE OF 1/4" PER SIDE IS LEFT FOR SHIMMING.  
 - FILL CELLS WITH CONCRETE AND REBAR AS REQUIRED BY LOCAL CODE AND FOUR SILL BLOCK SMOOTHLY FOR ATTACHMENT OF SILL BUCK (BY OTHERS).

**INSTALLATION OF WINDOW:**  
 - REFER TO INSTALLATION INSTRUCTIONS FOR THE SPECIFIC PRODUCT BEING INSTALLED.  
 - SET WINDOW IN OPENING, SHIMMING, LEVELING AND SQUARING TO ENSURE PROPER OPERATION.  
 - INSTALL #8 WOOD HEAD OR 3/8" S.S. 1 1/4" OR WOOD SCREW THROUGH ALL PRESCHEDULED HOLES IN THE INSTALLATION PIN TO SECURE UNIT.  
 - ENSURE THAT THE INSTALLATION PIN IS SEALED TO THE WOOD 2 X BUCK WITH A CONTINUOUS BEAD OF CAULKING.  
 - FILL VOID BETWEEN WINDOW AND BUCK WITH INSULATION BEING CAREFUL NOT TO BOW THE FRAME (BY OTHERS).  
 - WATER PROTECT THIS AND MASONRY WITH NP1 OR EQUAL COVERING FROM ALUMINUM CLAD TO MASONRY.  
 - WATER PROTECT THIS AND MASONRY WITH NP1 OR EQUAL COVERING FROM URETHANE.  
 - LEAVE 1/8" GAP BETWEEN EXTERIOR OF WINDOW AND FINISH MATERIALS FOR CAULK JOINT TO ALLOW FOR MATERIALS EXPANSION.



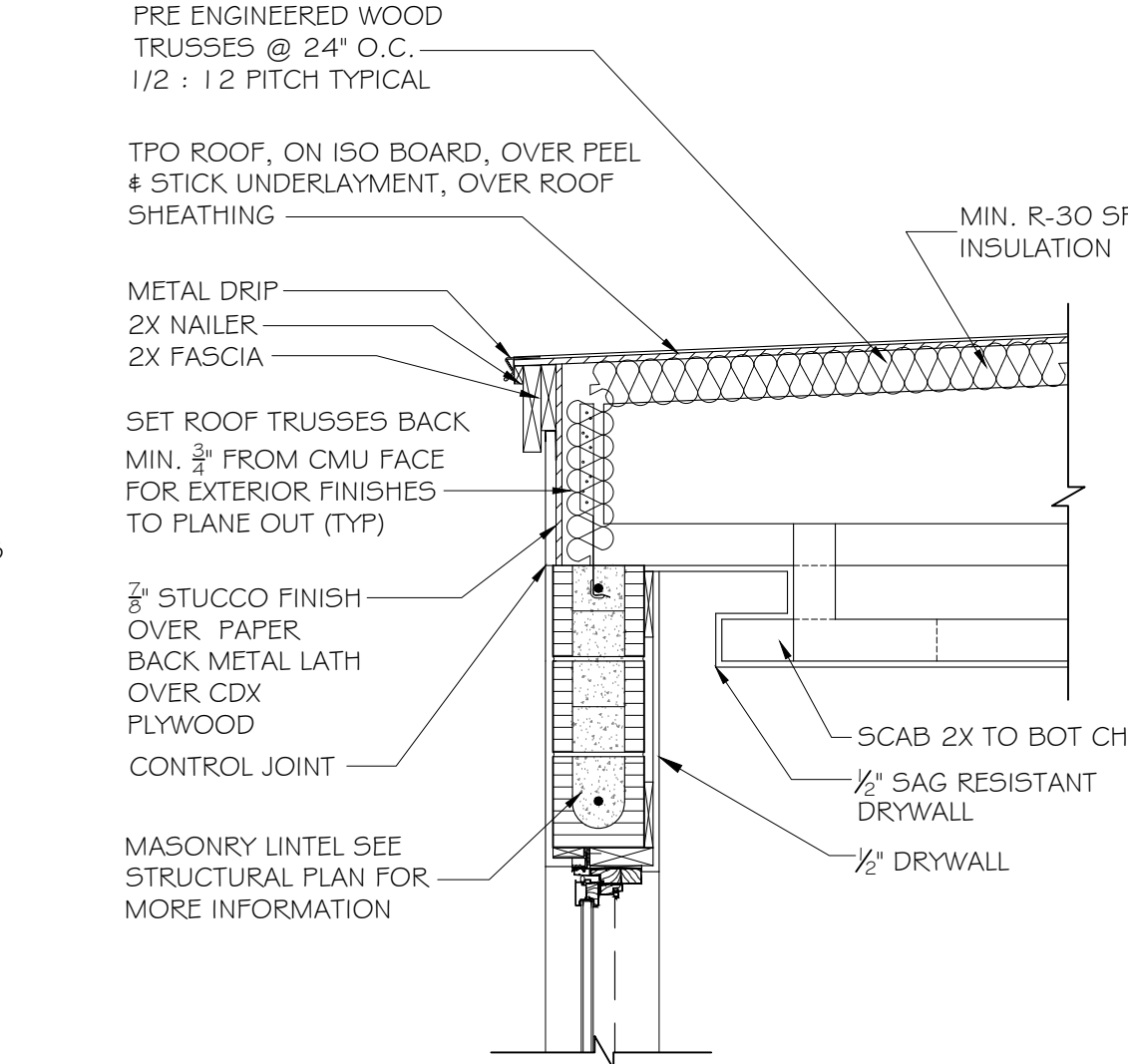
**TYPICAL SINGLE STORY WALL SECTION**

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



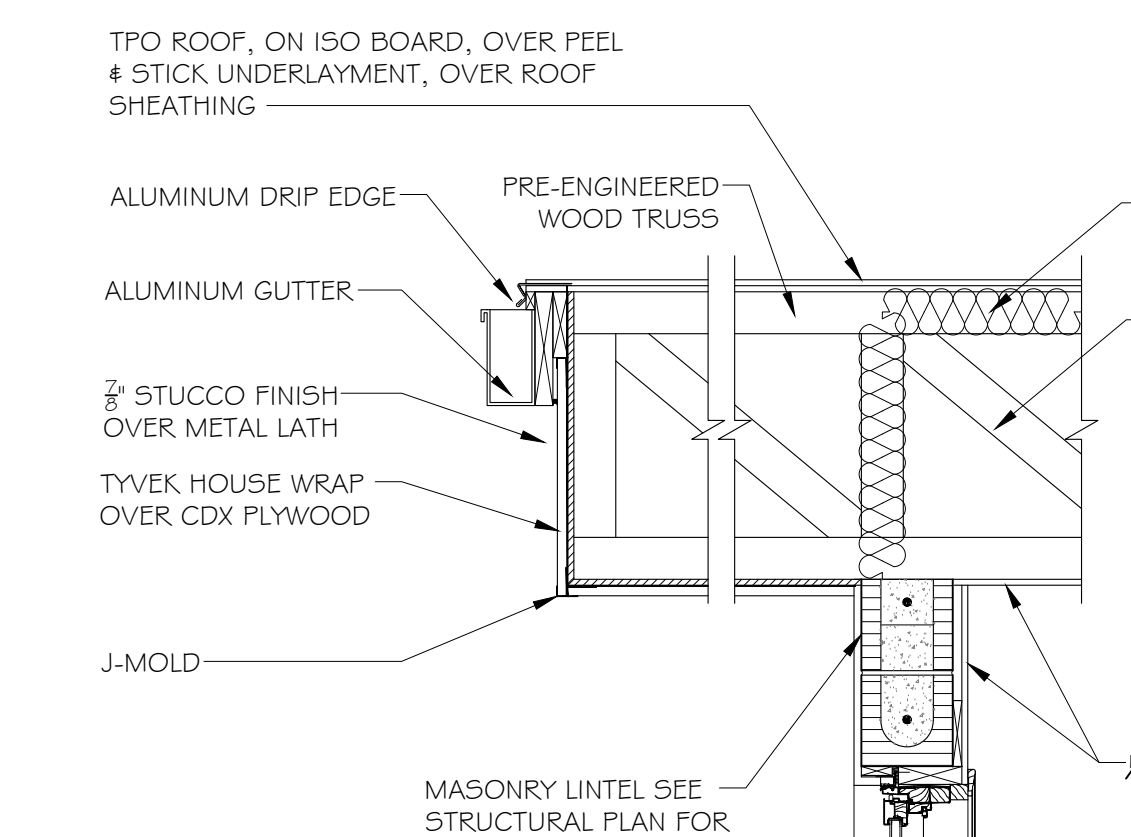
**NO OVERHANG DETAIL**

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



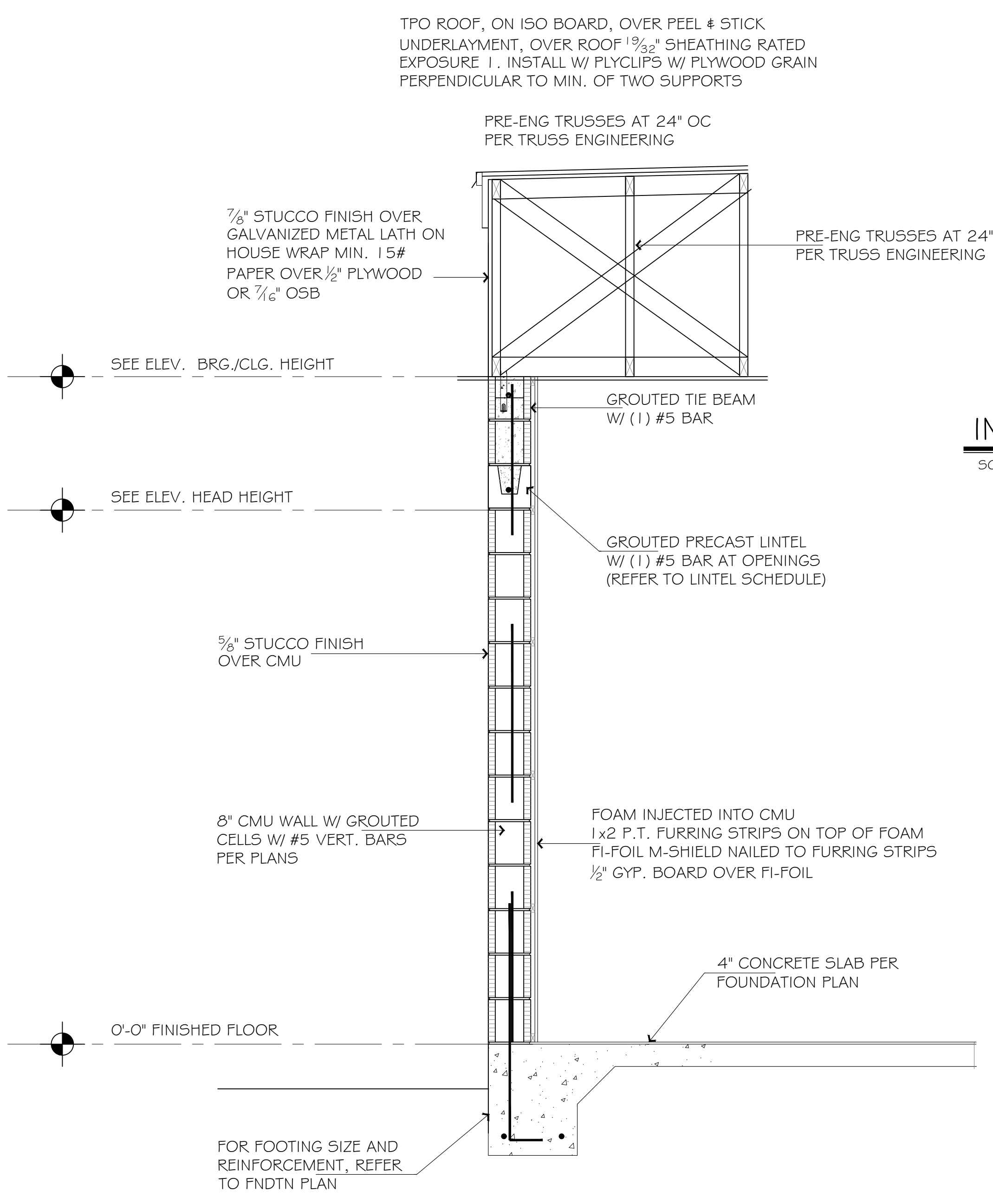
**RECESS DETAIL - CMU WALL**

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



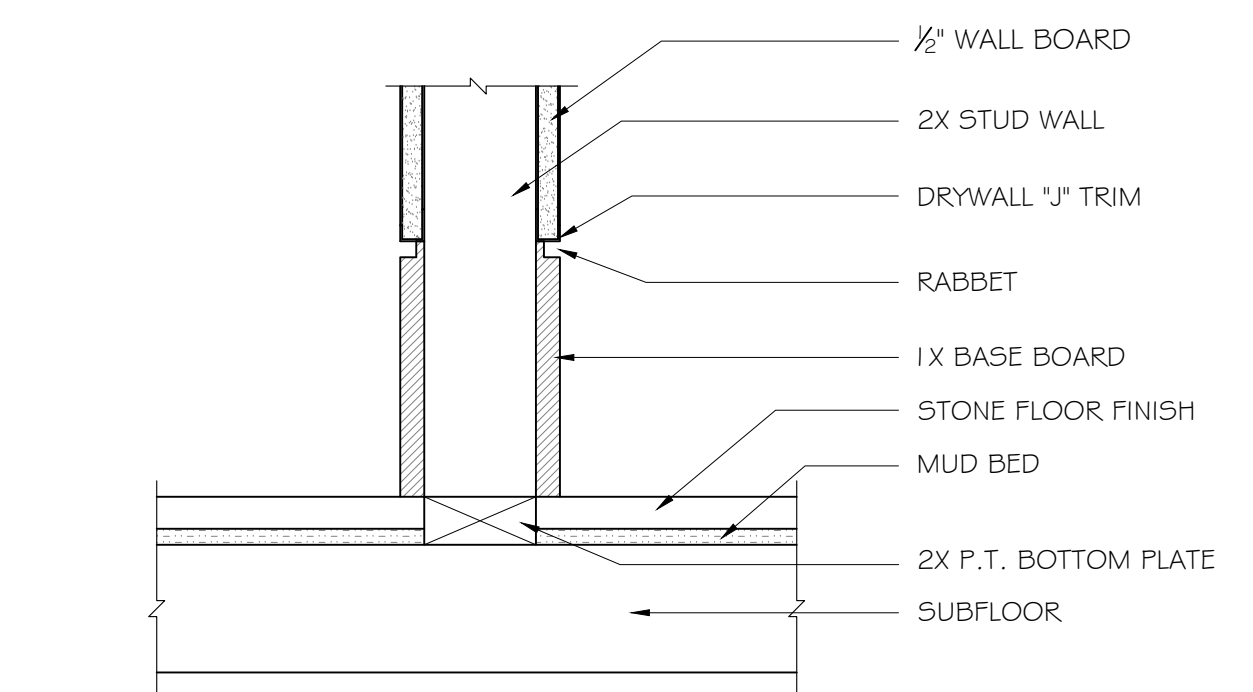
**OVERHANG DETAIL**

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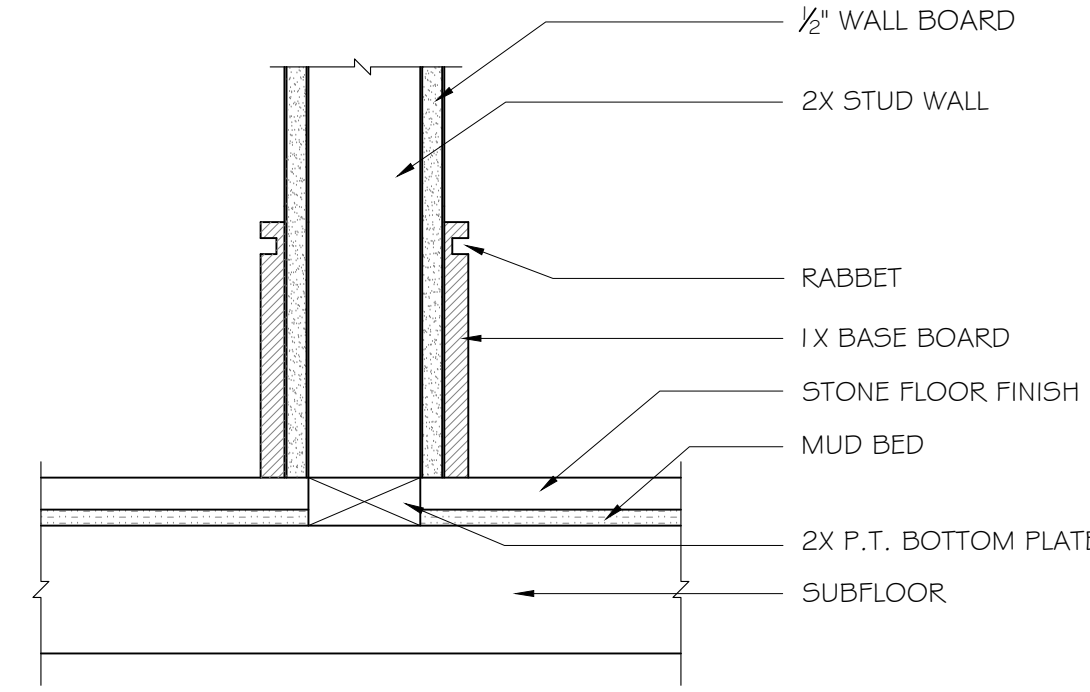
**INTERIOR DOOR JAMB FINISH DETAIL**

SCALE: 2" = 1'-0"



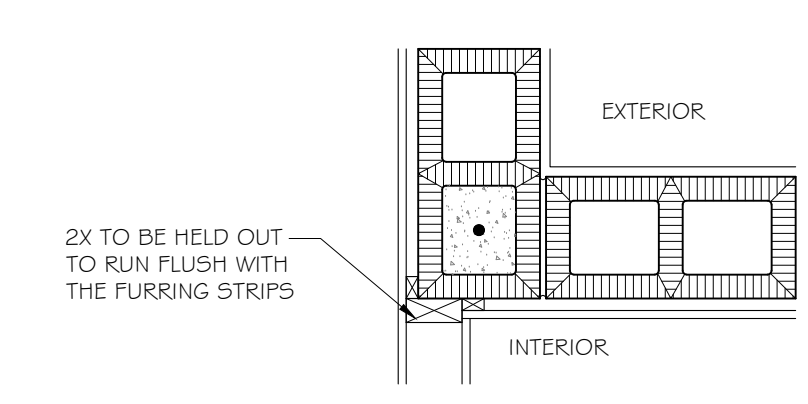
**BASE BOARD DETAIL " A "**

SCALE: 2" = 1'-0"



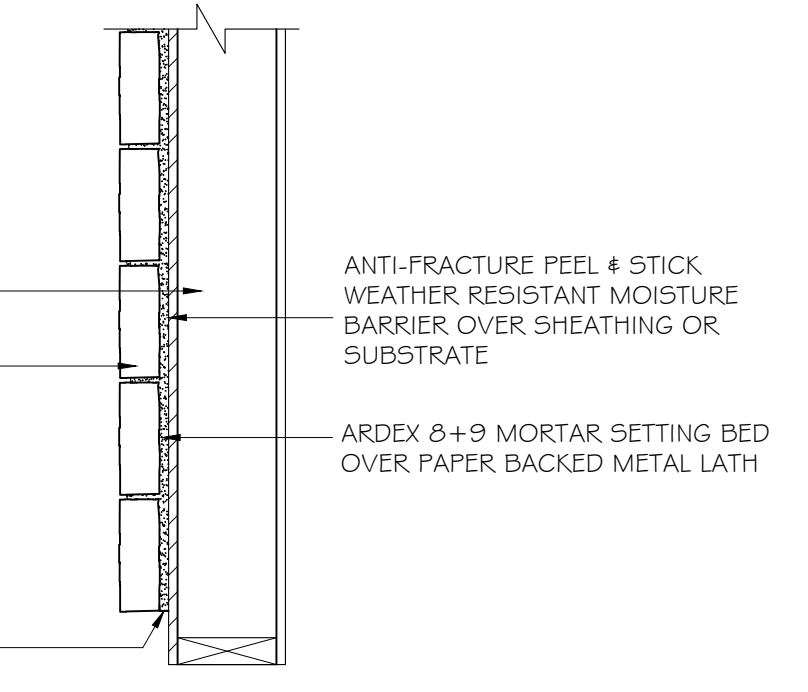
**BASE BOARD DETAIL " B "**

SCALE: 2" = 1'-0"



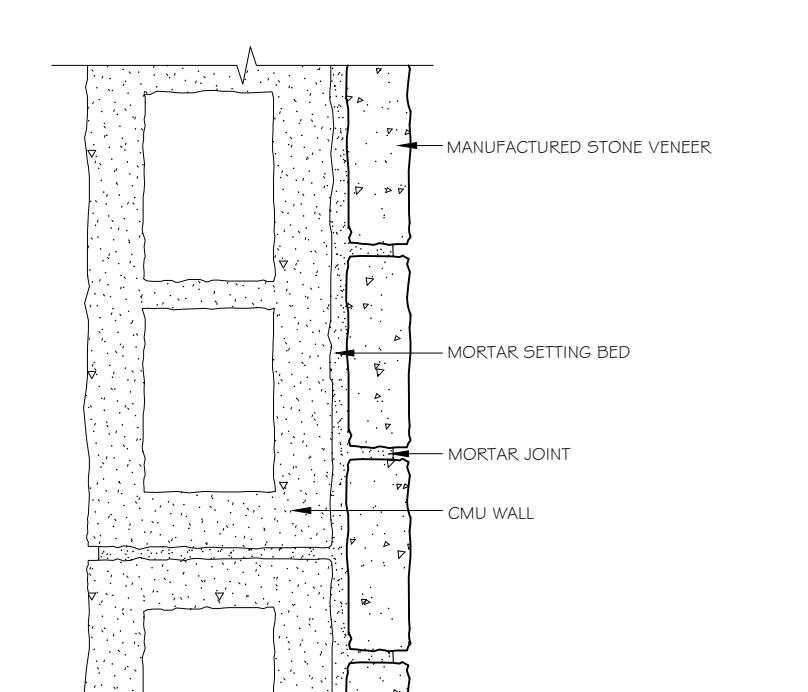
**INTERIOR CORNER DETAIL**

N.T.S.



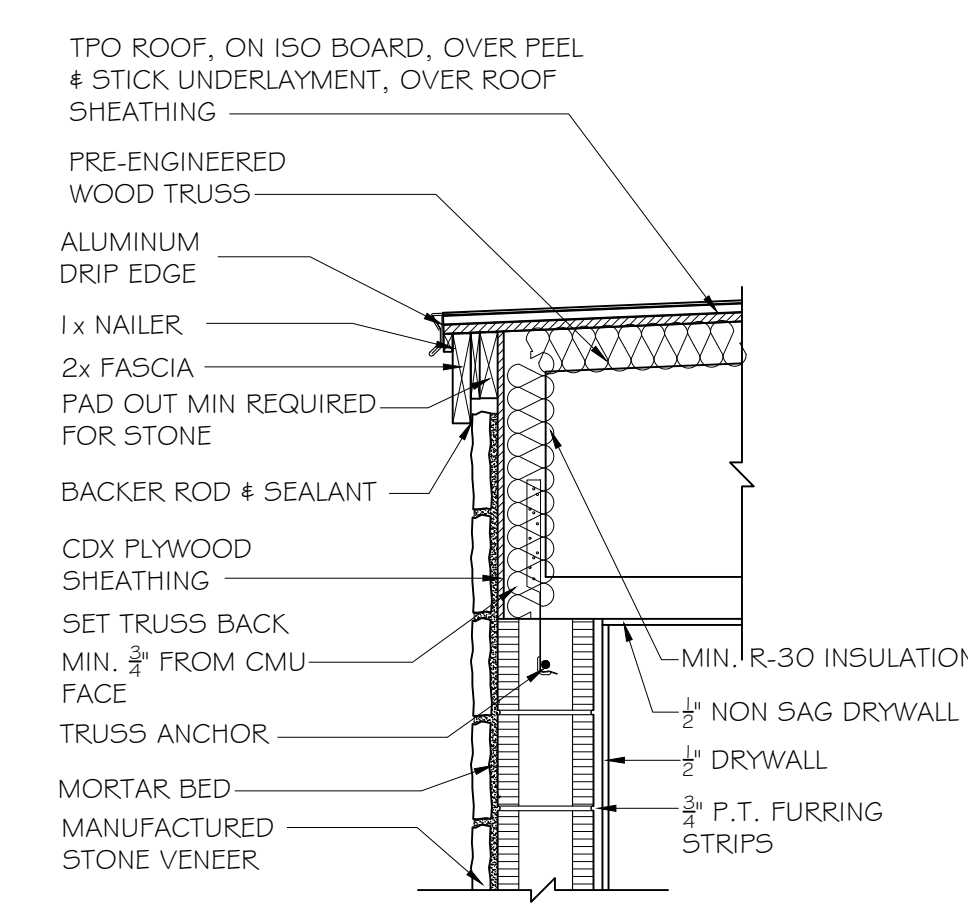
**STONE ON FRAME**

NOT TO SCALE



**STONE ON CMU**

NOT TO SCALE



**FASCIA DETAIL**

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





**THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED. CONTRACTOR IS TO USE APPROPRIATE TECHNIQUES FOR LOCAL BUILDING PRACTICES AND CLIMATE.**

**FLASHING REQUIREMENTS**

**R703.2 Weather-resistant sheathing paper.** One layer of No. 15 asphalt felt, free from holes and breaks, comply with ASTM D 226 for Type 1 felt or other approved weather-resistant barrier shall be applied over studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51 mm). Where joints occur, felt shall be lapped not less than 6 inches (152 mm). The felt or other approved material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

Exception: Omission of the water-resistive barrier is permitted in the following situations:

1. In detached accessory buildings.
2. Under wall finish materials as permitted in Table R703.4.

**R703.8 Flashing.** Approved corrosion-resistant flashing shall be applied shingle-fashion in a manner to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. Self-adhered membranes used as flashing shall comply with AAMA 711. The flashing shall extend to the surface of the exterior wall finish. Approved corrosion-resistant flashing shall be installed at all of the following locations:

1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage. Flashing at exterior window and door openings shall be installed in accordance with one or more of the following or other approved method:
  - 1.1 The fenestration manufacturer's written flashing instructions.
  - 1.2 The flashing manufacturer's written installation instructions.
  - 1.3 In accordance with FMA/AAMA 100, FMA/AAMA 200, or FMA/AAMA 250.
  - 1.4 In accordance with the flashing method of a registered design professional.
2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting wood trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.
7. At built-in gutters.

**R703.15 Drained assembly wall over mass assembly wall.** Where wood frame or other types of drained wall assemblies are constructed above mass wall assemblies, flashing or other approved drainage system shall be installed as required by R703.8.

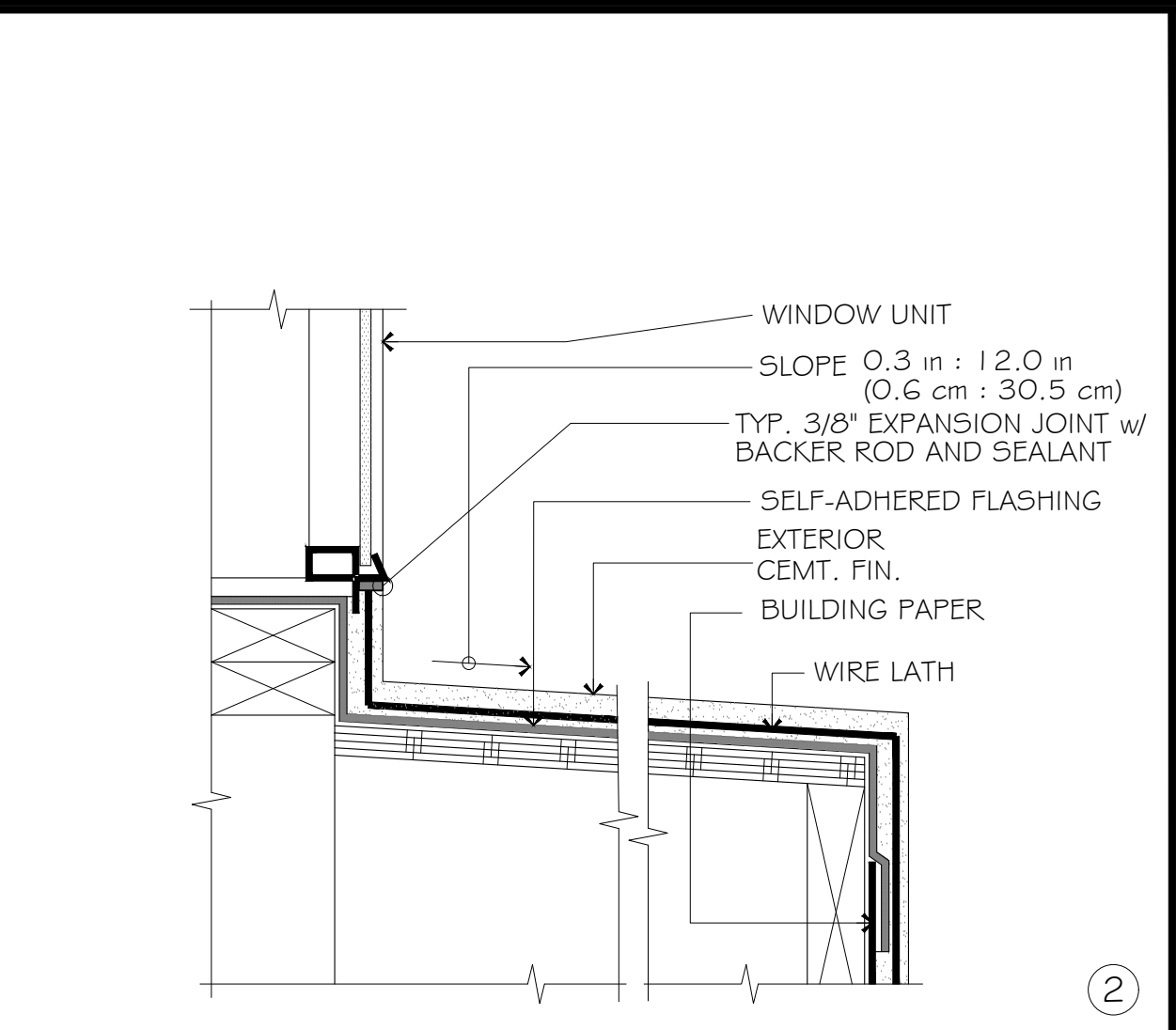
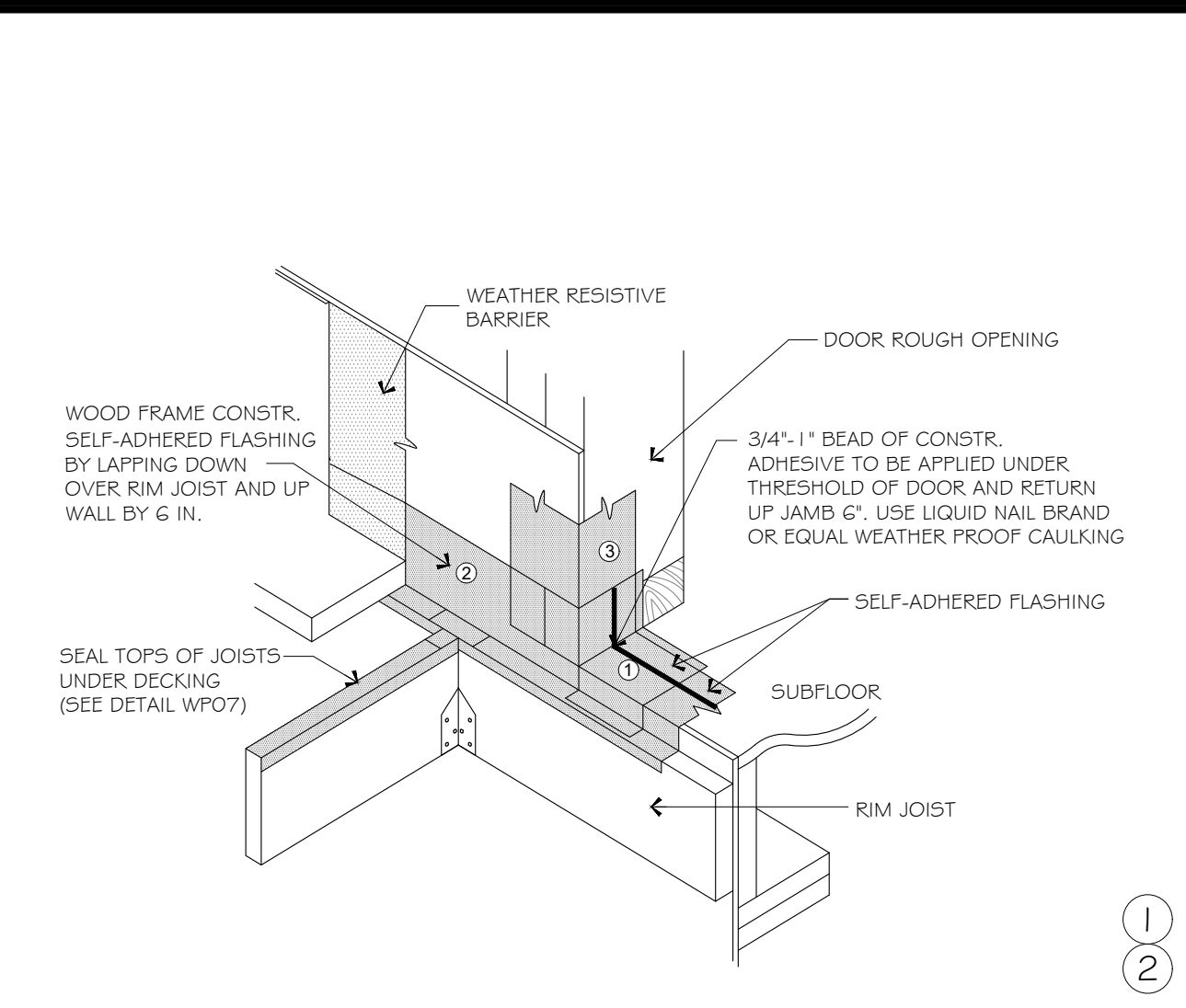
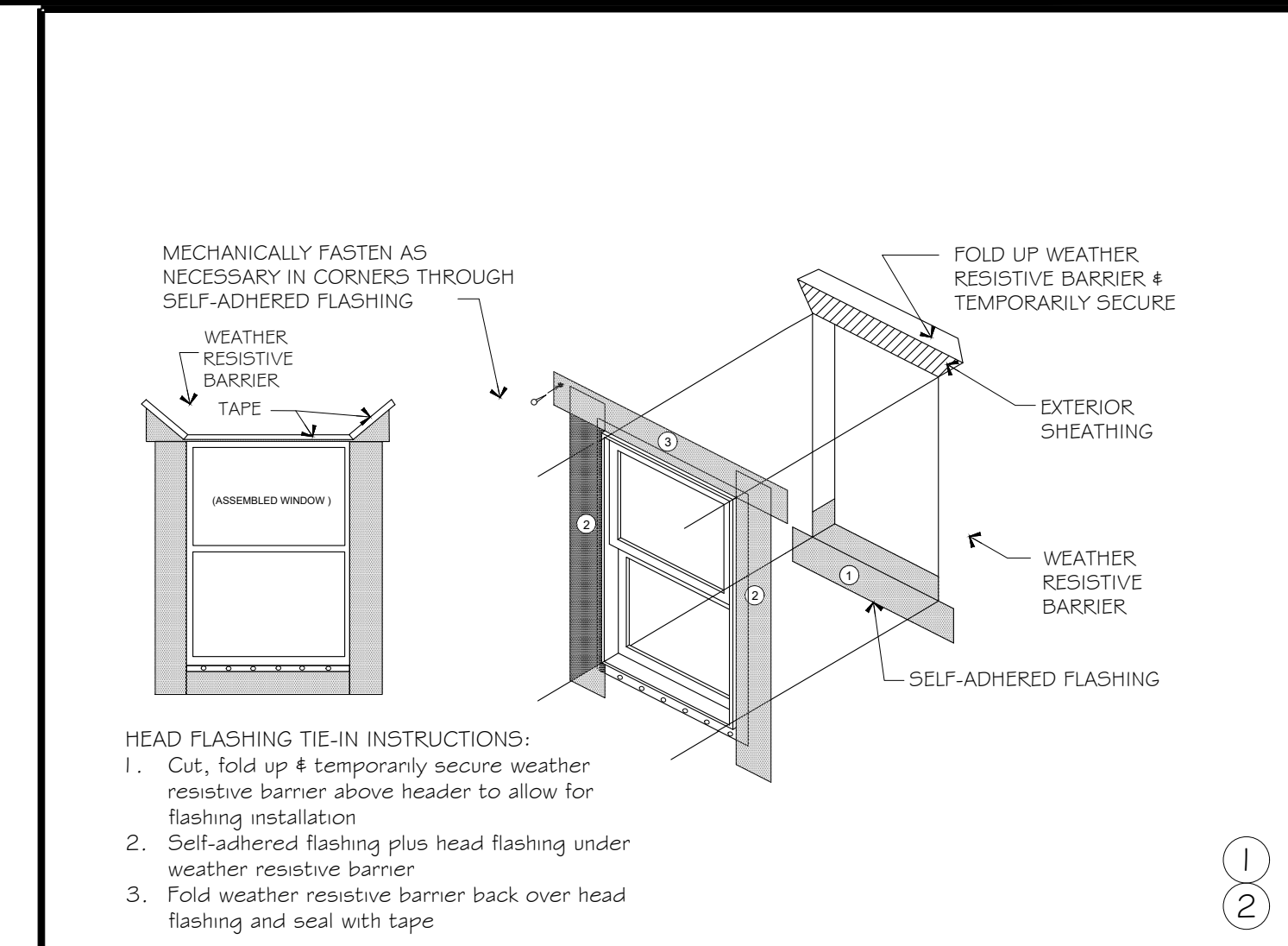
**SELF-ADHERED FLASHING PRODUCTS DETAILS**

TWO LAYERS OF FELT OR ONE LAYER OF HOUSE WRAP AND ONE LAYER OF FELT ARE REQUIRED BEHIND STUCCO. FBC R703.2.1

**Detail Instructions**

Refer to the number marked as (#) in each detail that corresponds to the numbered items in the list of instructions below:

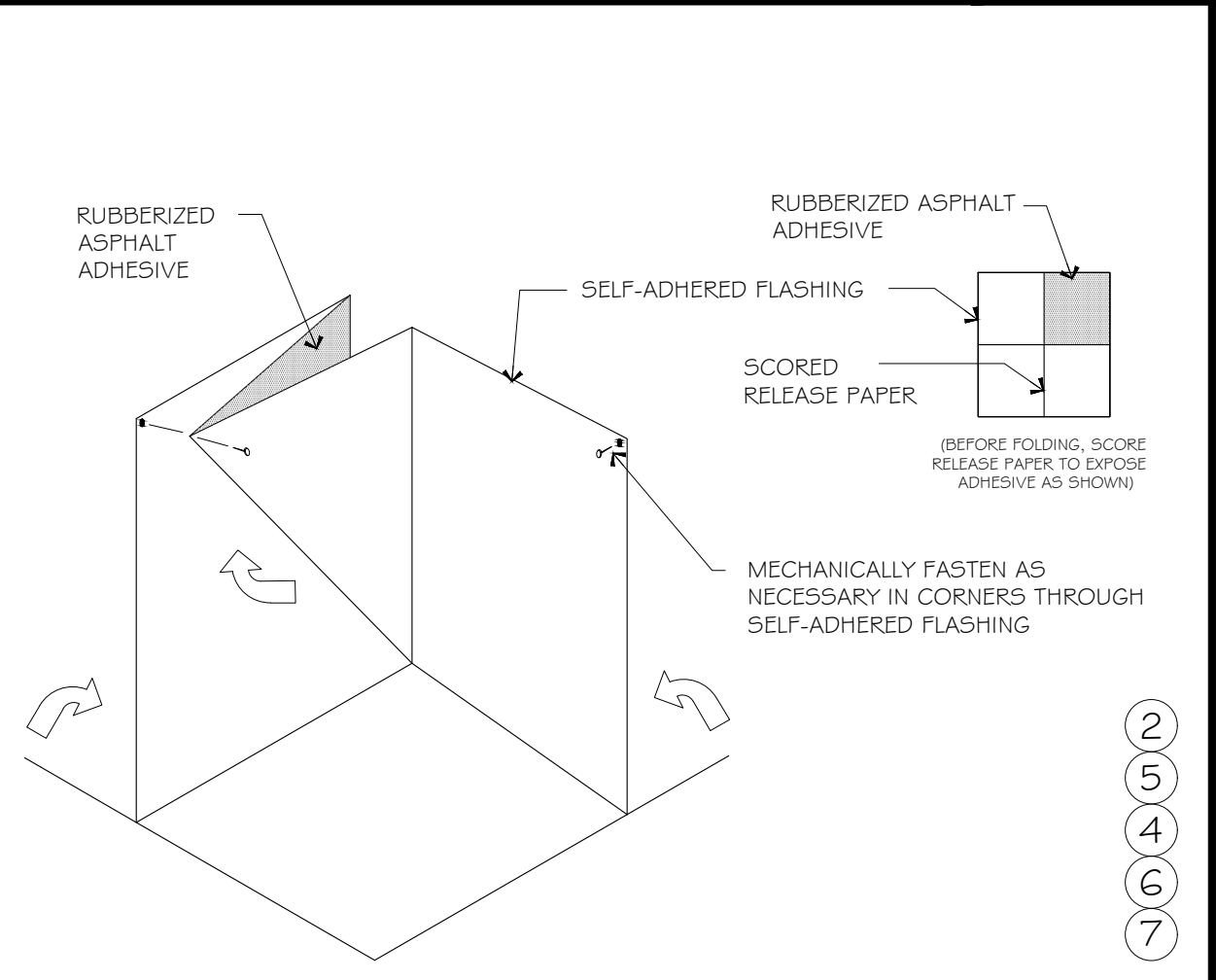
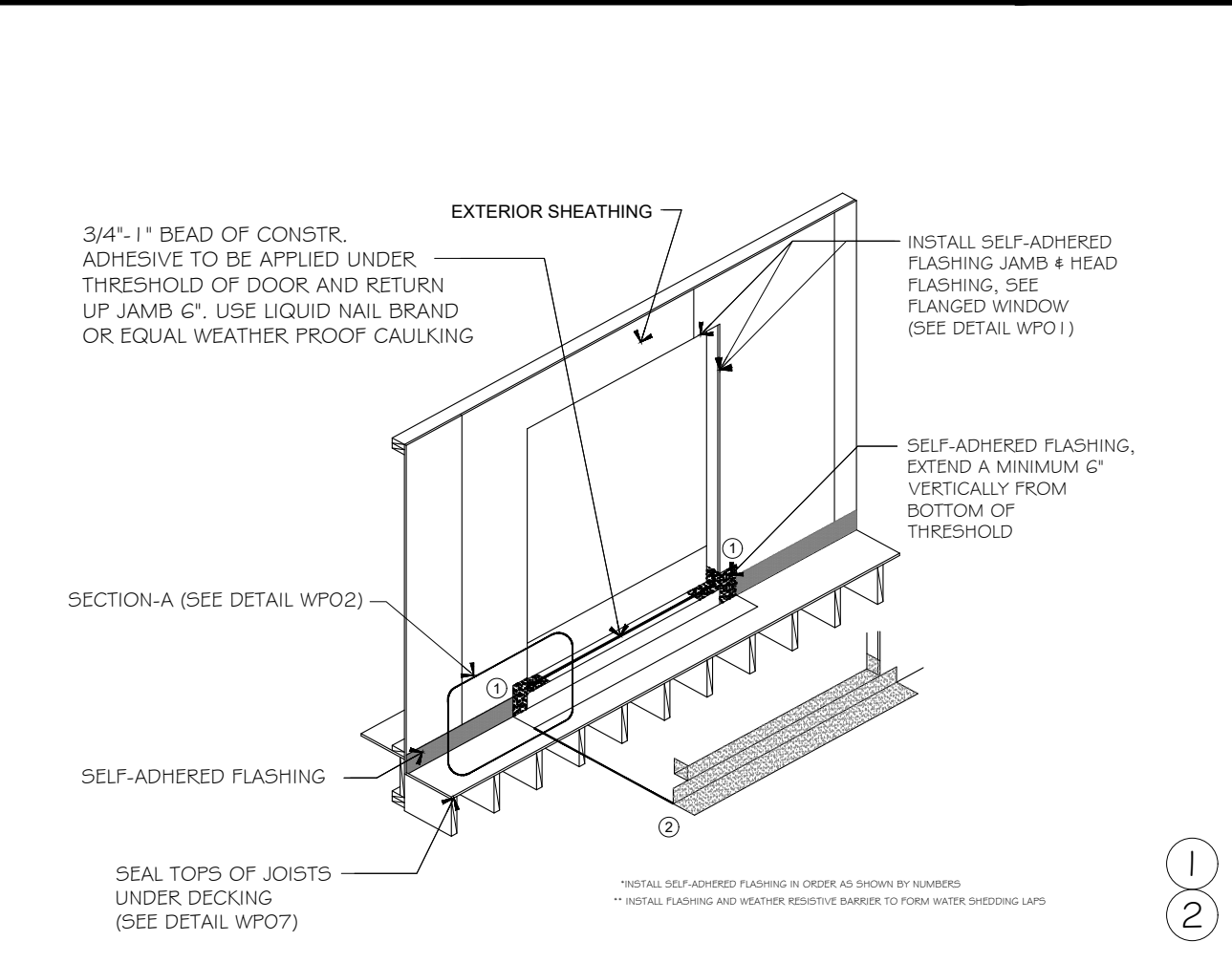
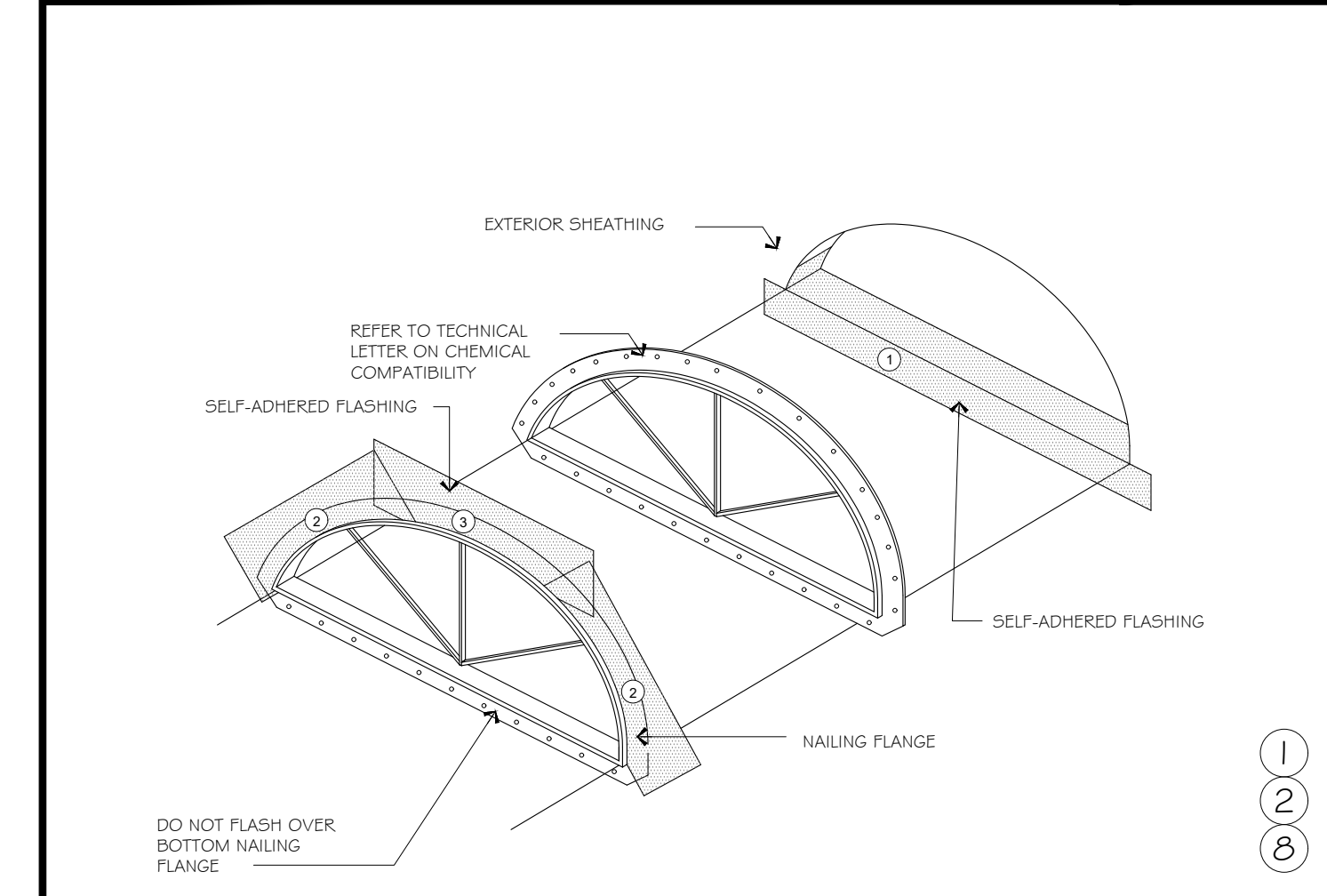
1. Install self-adhered flashing in order as shown by numbers
2. Install flashing and weather resistive barrier to form water shedding laps
3. Self-adhered flashing can be substituted for building paper
4. Split the release paper using the rpscord (Split release on demand, embedded in the adhesive layer) - for ease of installation and to minimize scoring cuts
5. Remove all release paper per standard installation instructions and adhere to substrate using a square piece of flashing material (6" x 6" Minimum)
6. Fold as shown by arrows
7. Angle of corner may vary, adjust folding of the flashing accordingly to fit tight to corner
8. Mechanically fasten as necessary



SELF-ADHERED FLASHING FLANGED WINDOW FLASHING INSTALLATION AFTER WEATHER RESISTIVE BARRIER WPO1 Scale: NTS

SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK - SECTION A WPO2

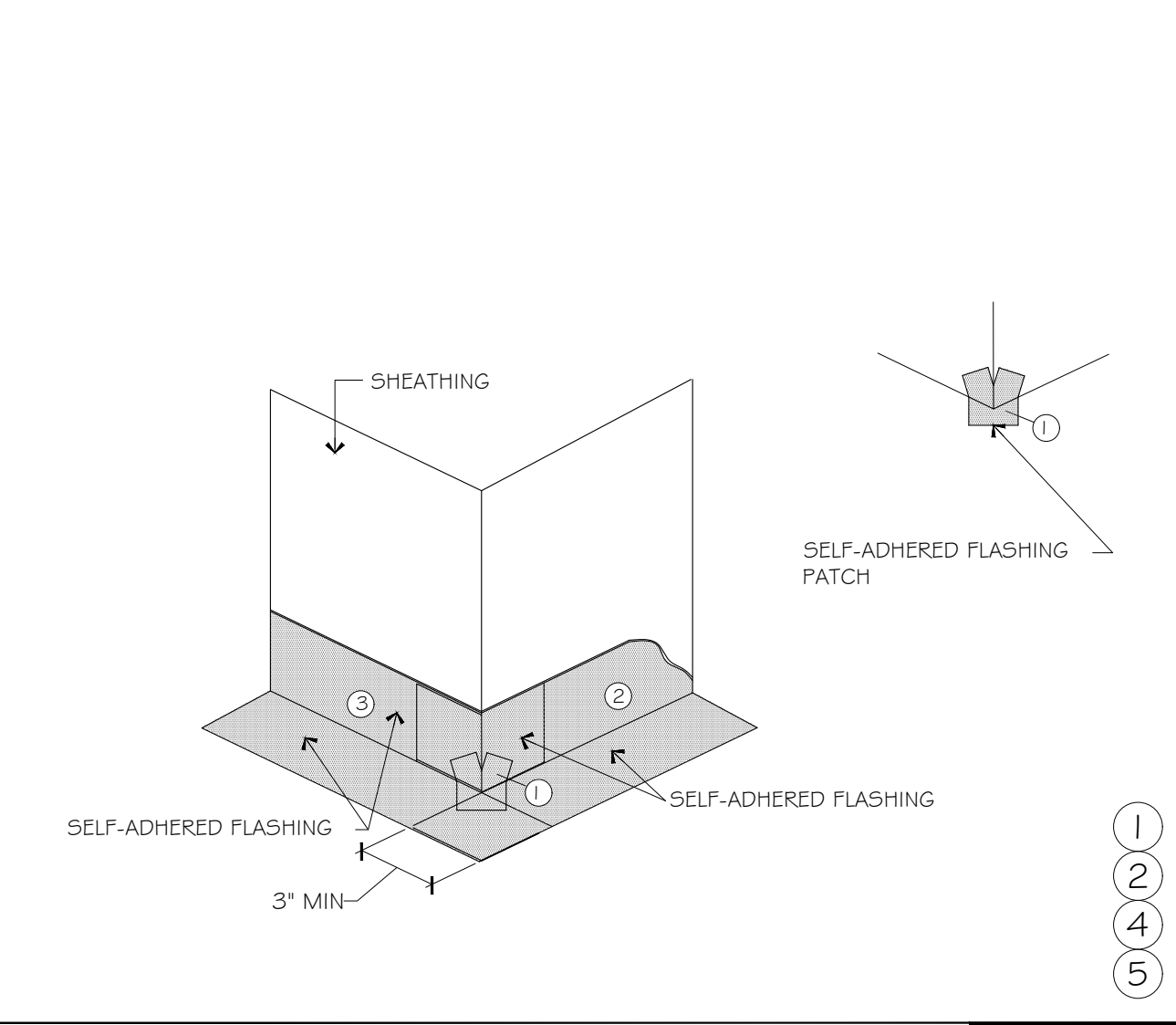
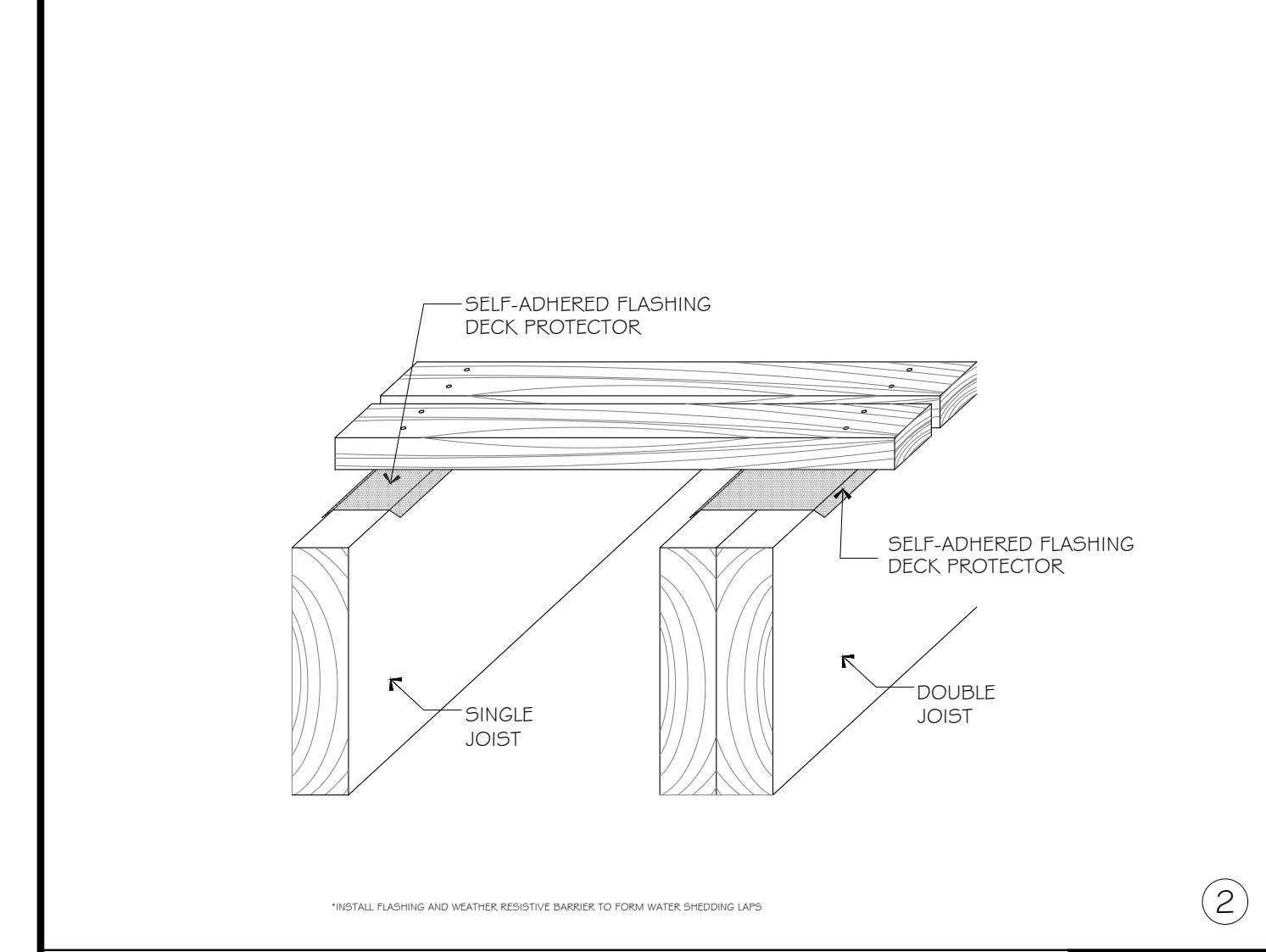
SELF-ADHERED FLASHING CEMENT FINISH SILLS/POTSHELF/CHIMNEY SHOULDER WPO3



SELF-ADHERED FLASHING HALF ROUND WINDOW WPO4

SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK WPO5

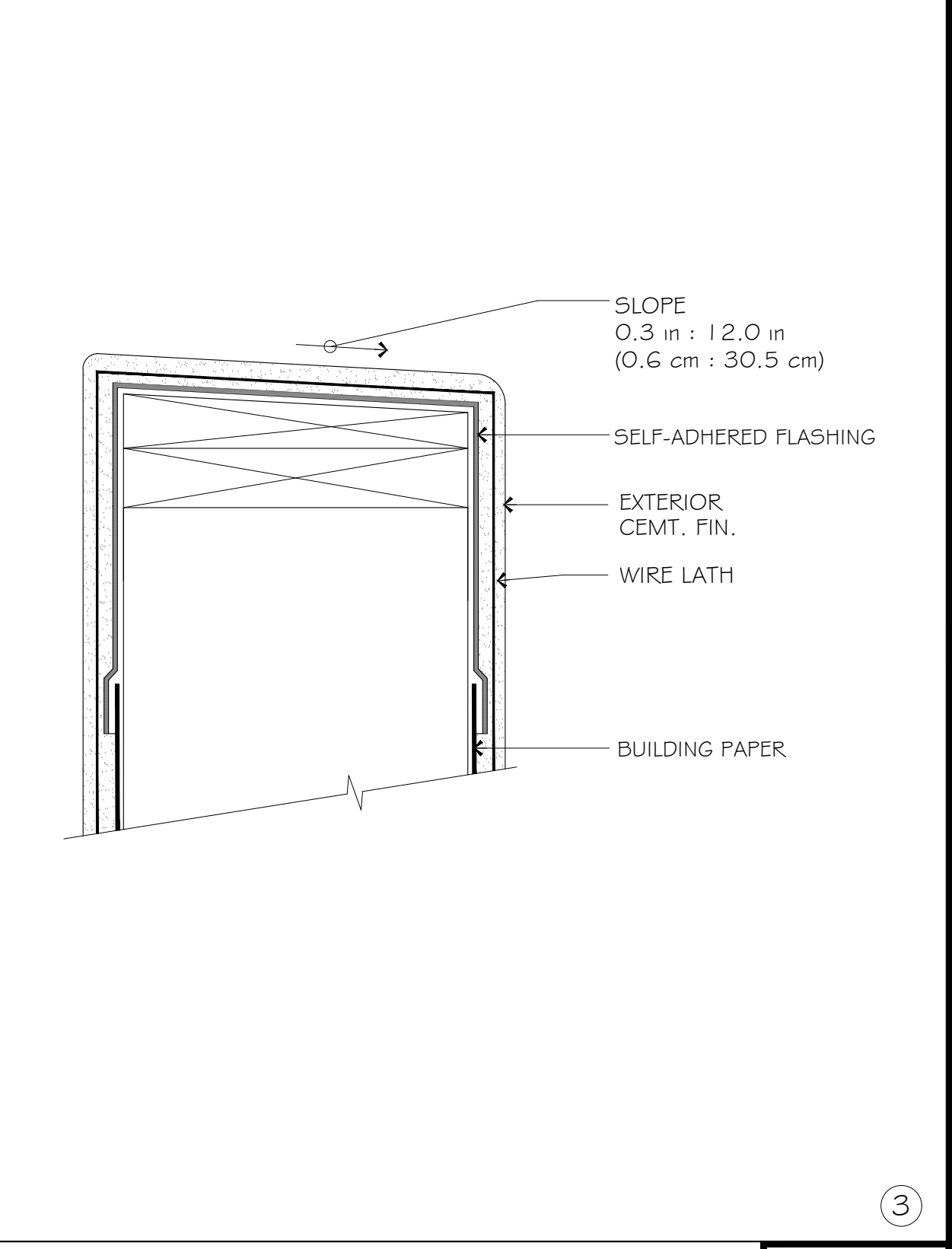
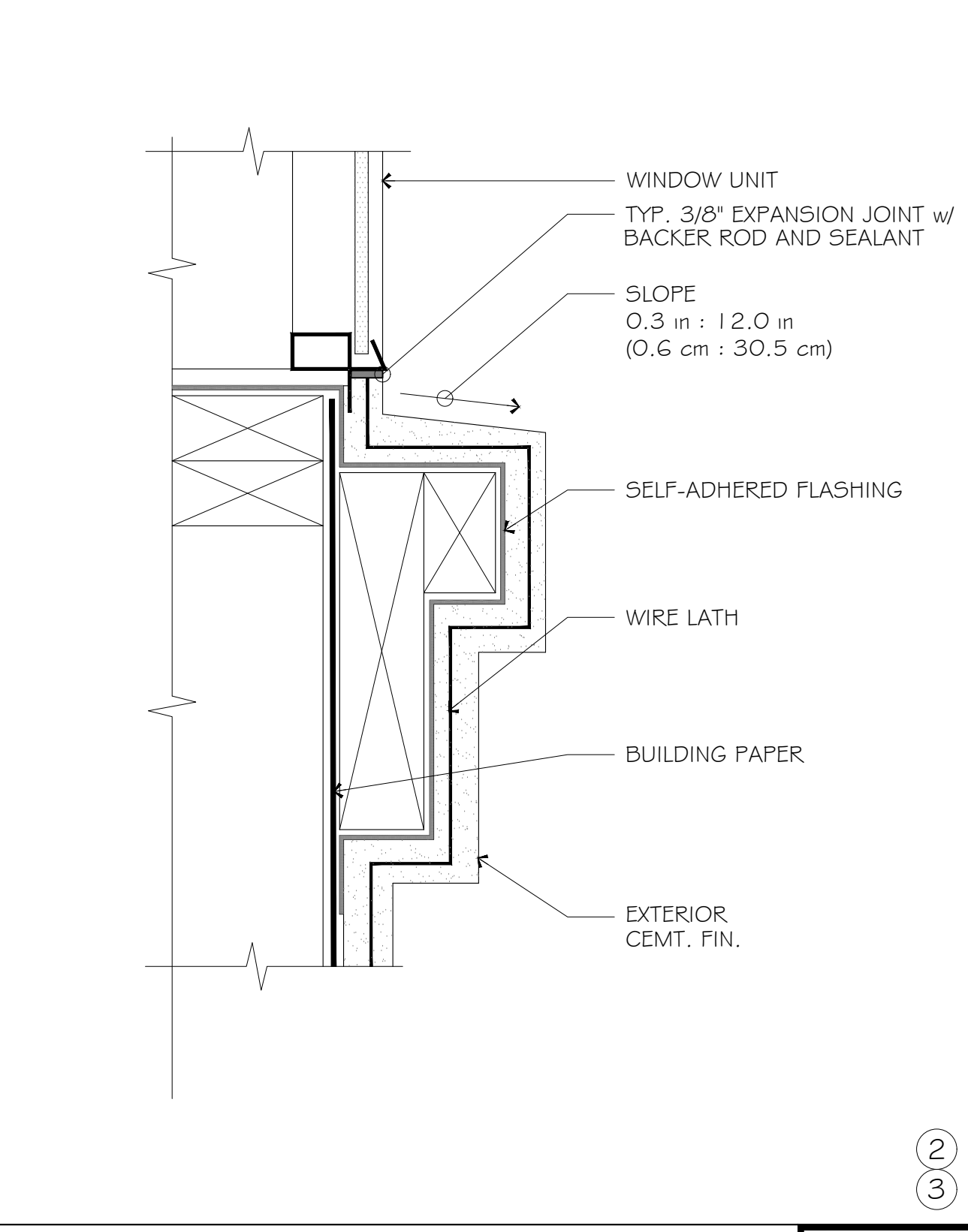
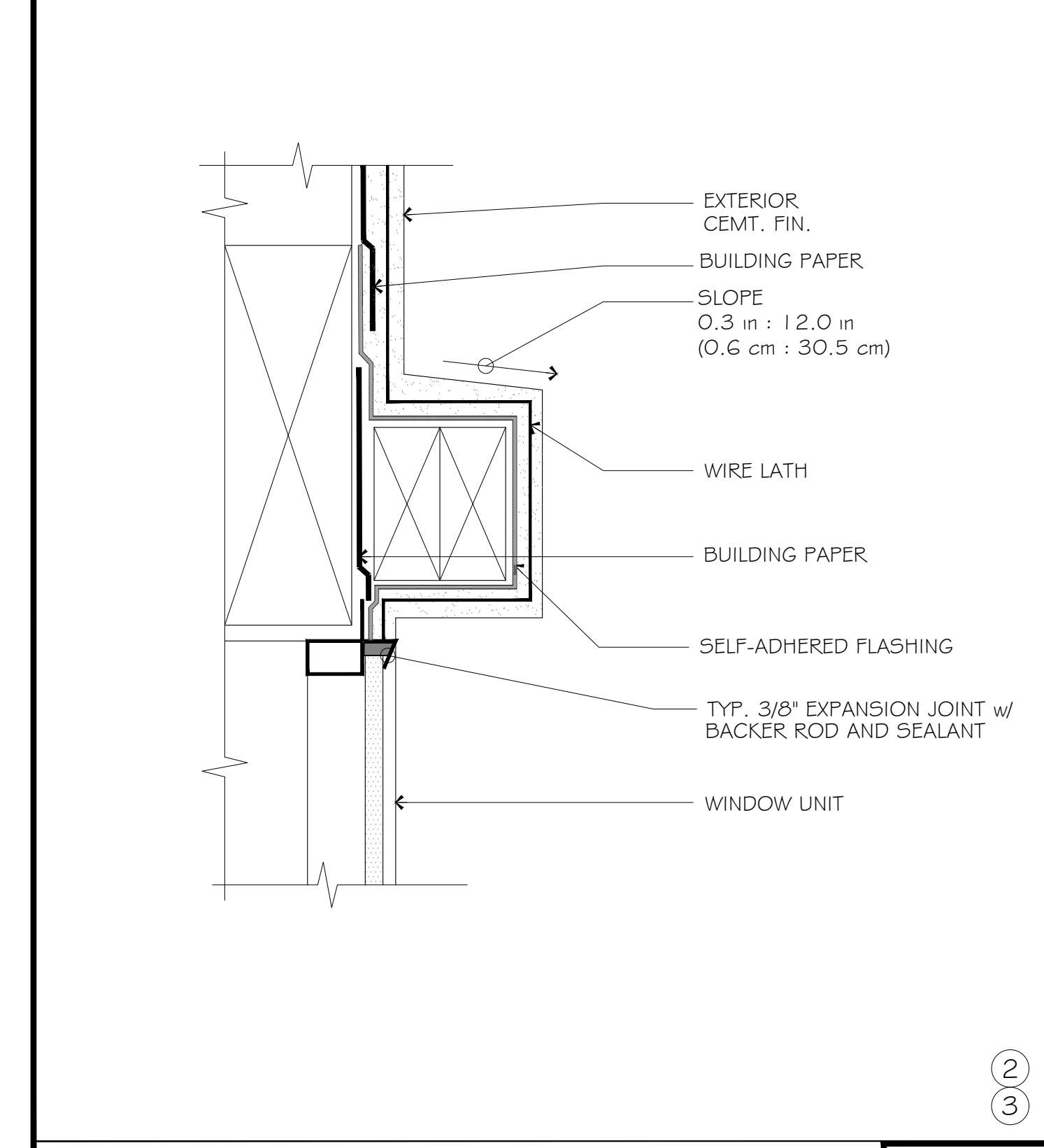
SELF-ADHERED FLASHING INSIDE CORNER WPO6



SELF-ADHERED FLASHING DECK JOIST WPO7

SELF-ADHERED FLASHING OUTSIDE CORNER WPO8

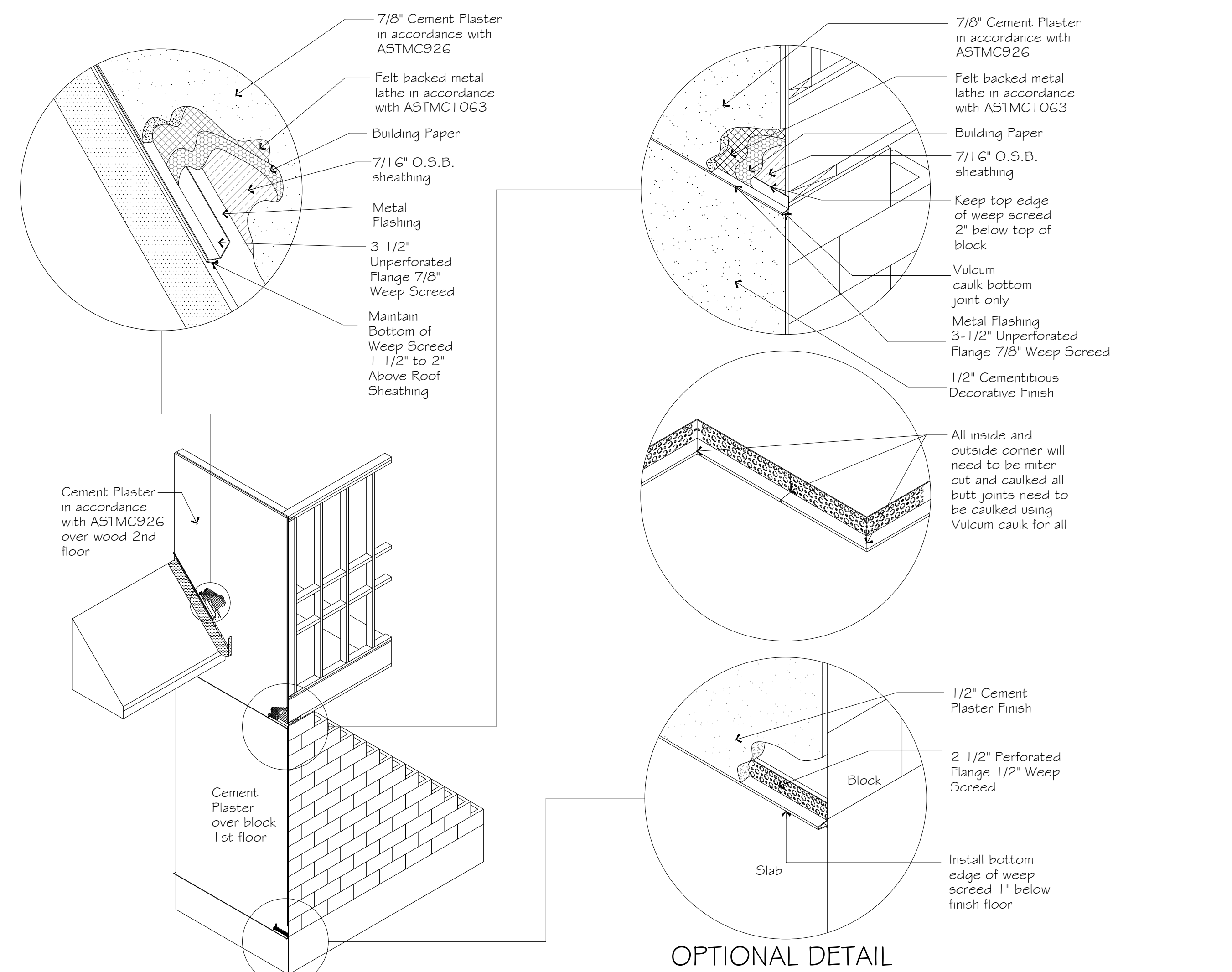
NOT USED WPO9



SELF-ADHERED FLASHING CEMENT FINISH WINDOW HEAD WPI0

SELF-ADHERED FLASHING CEMENT FINISH WINDOW SILL WPI1

SELF-ADHERED FLASHING CEMENT FINISH PARAPET WALL WPI2



Note: The building paper and metal lath must be installed over the top of the weep screed.

WEEP SCREED DETAIL SCALE: NOT TO SCALE

REVISIONS	BY

LUCIA DESIGNS  
RESIDENTIAL DESIGN  
lucia@luciadesigns.com  
714-407-4023-3497

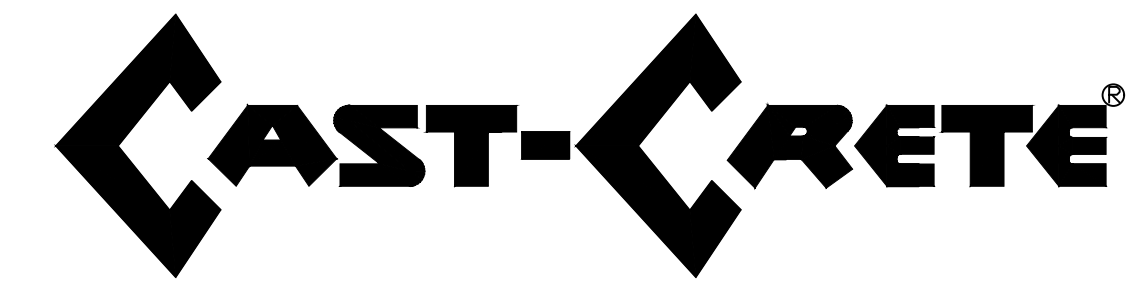
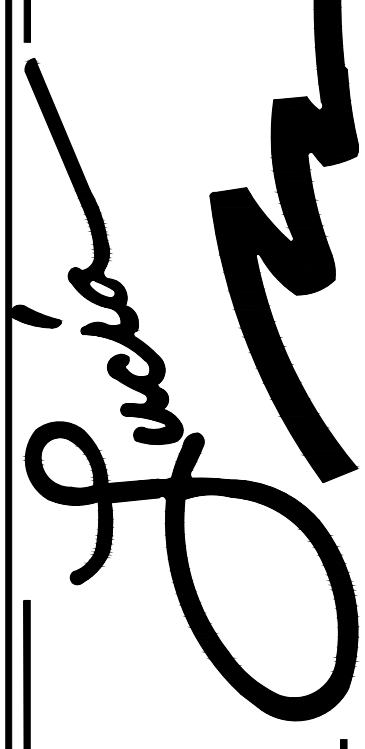
*Lucia*

LP STRUCTURAL DESIGN, LLC  
223 MAGNOLIA CIRCLE CIRCLE  
EUSTIS, FLORIDA 32726  
352-989-1935  
PE# 47617

CUSTOM DESIGN FOR THE:  
CASTILLO RESIDENCE  
LOT 11, STATE ROAD 44  
EUSTIS, FLORIDA 32736

DATE: \_\_\_\_\_  
SCALE: NOTED  
DRAWN: EML  
JOB: \_\_\_\_\_  
SHEET 12  
OF SHEETS





# SAFE LOAD TABLES

FOR GRAVITY, UPLIFT & LATERAL LOADS

8" PRECAST & PRESTRESSED U-LINTELS									
GRAVITY									
LENGTH	TYPE	ØUB	ØF8-0B	ØF12-0B	ØF16-0B	ØF20-0B	ØF24-0B	ØF28-0B	ØF32-0B
2'-10" (34')	PRECAST	2302	3166	4473	6039	7526	9004	10472	11936
3'-6" (42')	PRECAST	2302	3138	3377	4689	6001	7315	8630	9947
4'-0" (48')	PRECAST	2029	2646	4473	6039	7526	9004	10472	11936
4'-6" (54')	PRECAST	1651	1767	1913	2627	3403	4149	4896	5644
5'-4" (64')	PRECAST	1184	1223	1301	1809	2317	2826	3336	3844
5'-10" (70')	PRECAST	972	1000	1059	1474	1889	2304	2721	3137
6'-6" (78')	PRECAST	937	1255	2101	3396	5260	7134	8995	10890
7'-6" (90')	PRECAST	767	1029	1675	2305	1994	2439	2886	3333
9'-4" (112')	PRECAST	573	1029	1675	2305	1994	2439	2886	3333
10'-0" (120')	PRECAST	456	482	802	1125	915	1122	1326	1535
11'-4" (136')	PRECAST	445	658	1025	1514	2081	2774	3130	2404
12'-0" (144')	PRECAST	414	427	726	1028	1331	1635	1724	1418
13'-4" (160')	PRECAST	362	485	748	1076	1436	1895	2343	2820
14'-0" (168')	PRECAST	338	381	648	919	1190	1462	1687	1260
14'-8" (176')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
15'-4" (184')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
17'-4" (208')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
19'-4" (232')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
21'-4" (256')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
22'-0" (264')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
24'-0" (288')	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR

8" PRECAST W/ 2" RECESS DOOR U-LINTELS									
GRAVITY									
LENGTH	TYPE	ØRUG	ØRF6-0B	ØRF10-0B	ØRF14-0B	ØRF18-0B	ØRF22-0B	ØRF26-0B	ØRF30-0B
4'-4" (52')	PRECAST	1489	1591	3053	2982	3954	4929	5904	6880
4'-6" (54')	PRECAST	1357	1449	2782	2714	3600	4487	5375	6264
5'-8" (68')	PRECAST	785	832	1602	1550	2058	2566	3075	3585
5'-10" (70')	PRECAST	735	779	1500	1449	1924	2400	2876	3352
6'-8" (80')	PRECAST	822	907	1677	2933	2576	3223	3872	4522
7'-6" (90')	PRECAST	665	761	1377	2329	3609	5492	6624	5132
9'-8" (116')	PRECAST	371	420	834	1253	1071	1342	1614	1886

8" PRECAST W/ 2" RECESS DOOR U-LINTELS									
UPLIFT									
LENGTH	TYPE	ØRUG	ØRF6-0B	ØRF10-0B	ØRF14-0B	ØRF18-0B	ØRF22-0B	ØRF26-0B	ØRF30-0B
4'-4" (52')	PRECAST	932	1244	1573	2413	3260	4112	4967	5825
4'-6" (54')	PRECAST	853	1244	1519	2339	3170	4008	4850	5696
5'-8" (68')	PRECAST	501	1192	1507	2311	3121	3937	4756	5577
5'-10" (70')	PRECAST	469	1192	1455	2240	3036	3837	4643	5453
6'-8" (80')	PRECAST	469	924	1172	1795	2423	3055	3689	4325
7'-6" (90')	PRECAST	830	896	1138	1742	2352	2965	3581	4198
9'-8" (116')	PRECAST	614	688	909	1325	1810	2280	2753	3227

SPECIFIED COMPOSITE LINTEL DEPTH IS THE MINIMUM ACCEPTABLE. ANY EXTRA COURSES OF BLOCK ABOVE LINTEL ARE ACCEPTABLE AS LONG AS ALL COURSES ABOVE P.C. LINTEL ARE FILLED W/ GROUT.

## PRE-CAST LINTEL ENGINEERING PER CAST-CRETE.

### MATERIALS

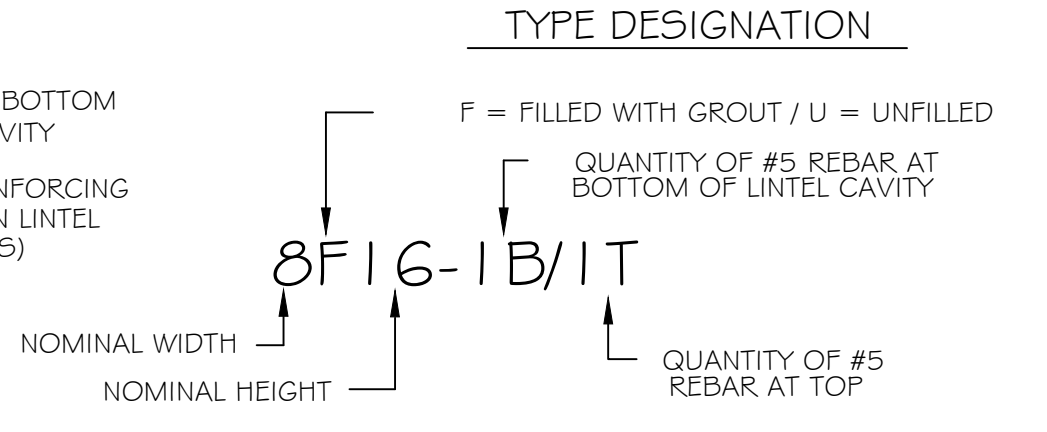
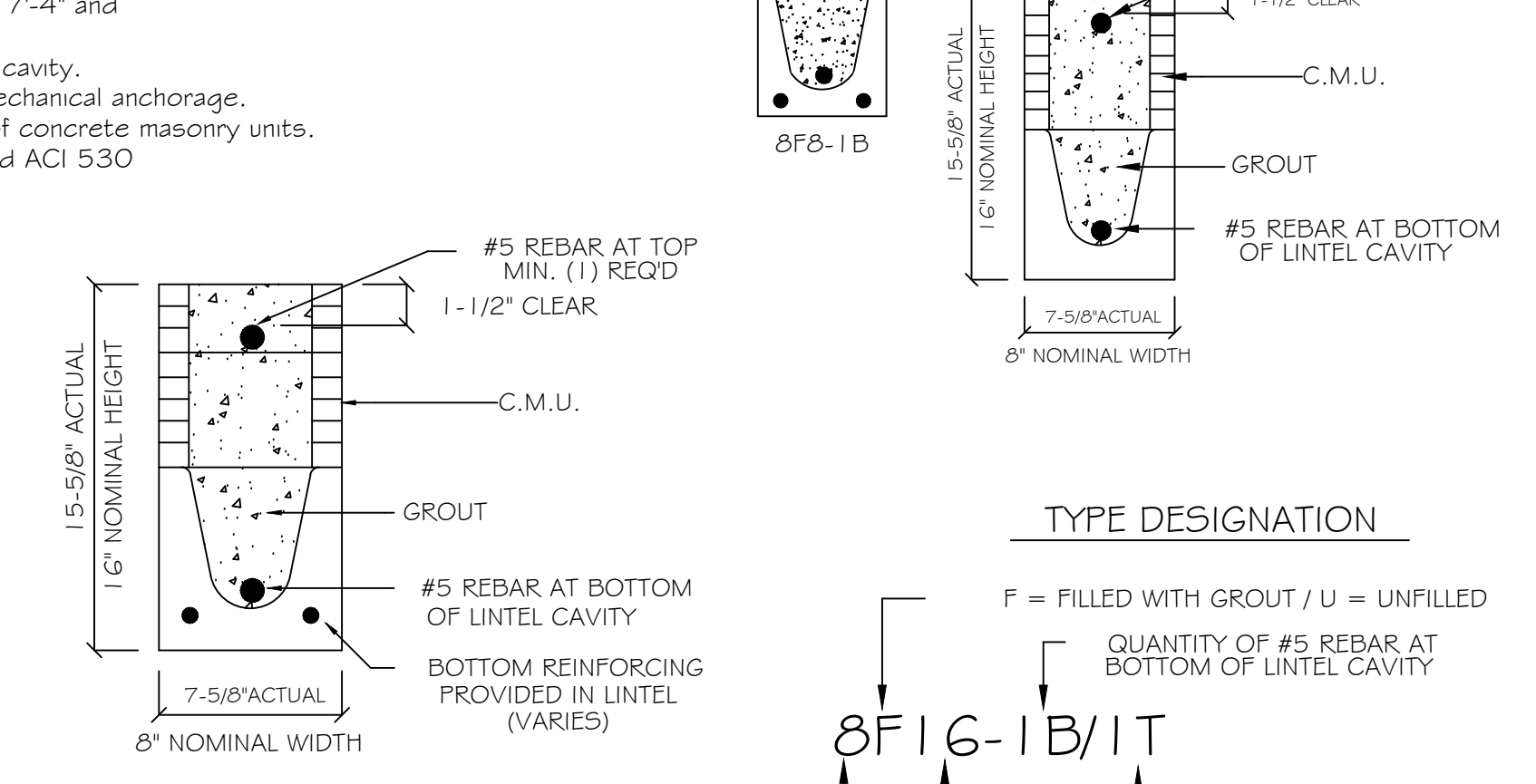
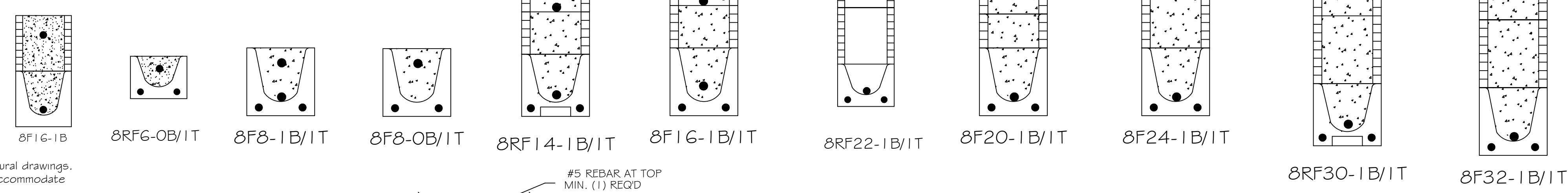
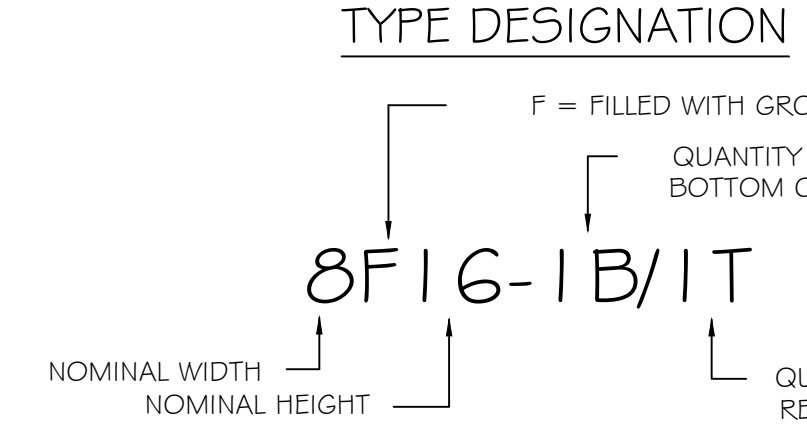
1. Fc precast lintels = 3500 psi.
2. Fc prestressed lintels = 6000 psi.
3. Fc grout = 3000 psi w/ maximum 3/8" aggregate.
4. Concrete masonry units (CMU) per ASTM C90 w/ minimum net area compressive strength = 1900 psi.
5. Rebar provided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grade 270 low relaxation.
7. 7/32 wire per ASTM A510.
8. Mortar per ASTM C270 type M or S.

### GENERAL NOTES

1. Provide full mortar head and bed joints.
2. Shore filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural drawings.
4. Lintels are manufactured with 5'-1/2" long anchors at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed U/360 vertical deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed U/80.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530

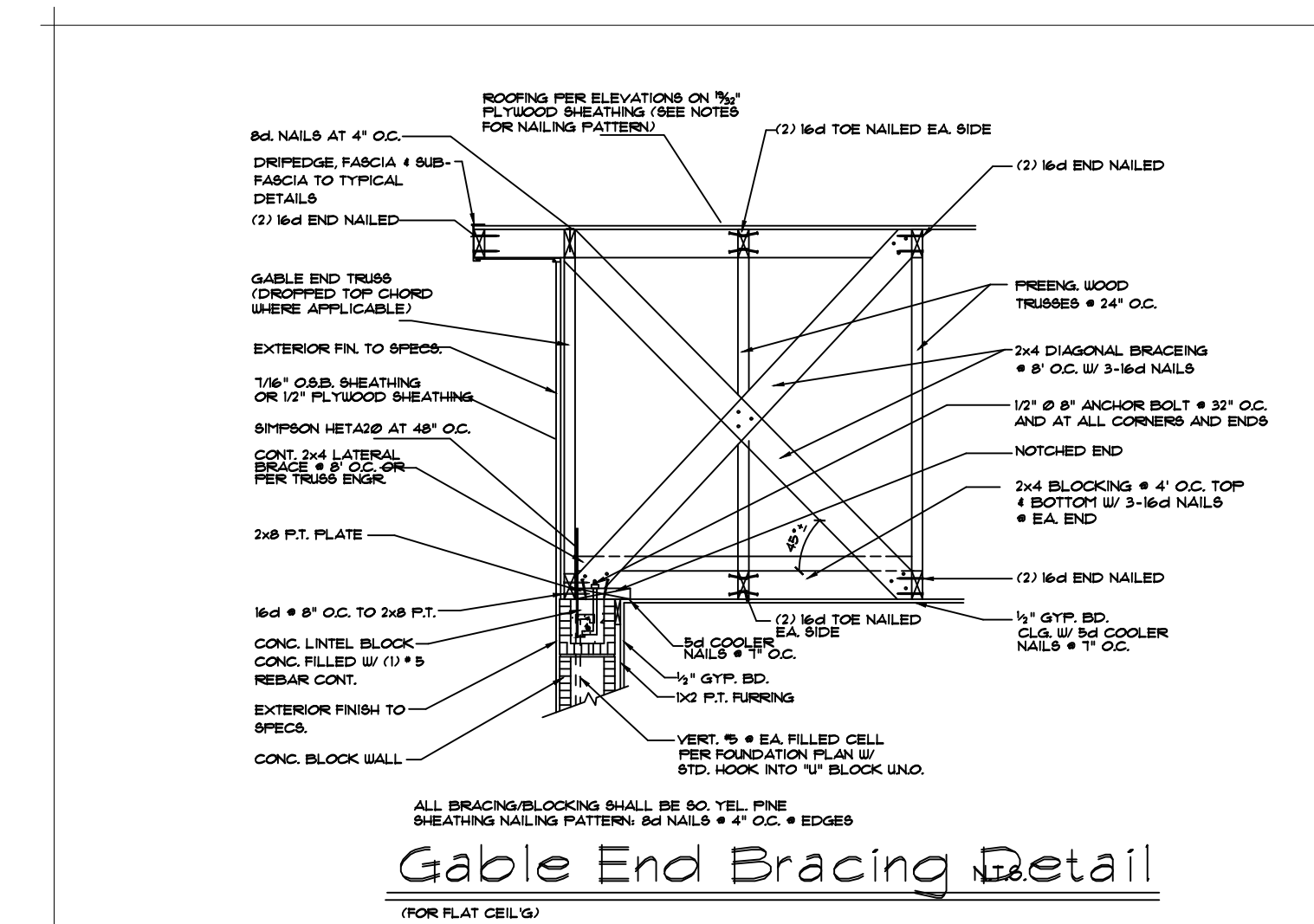
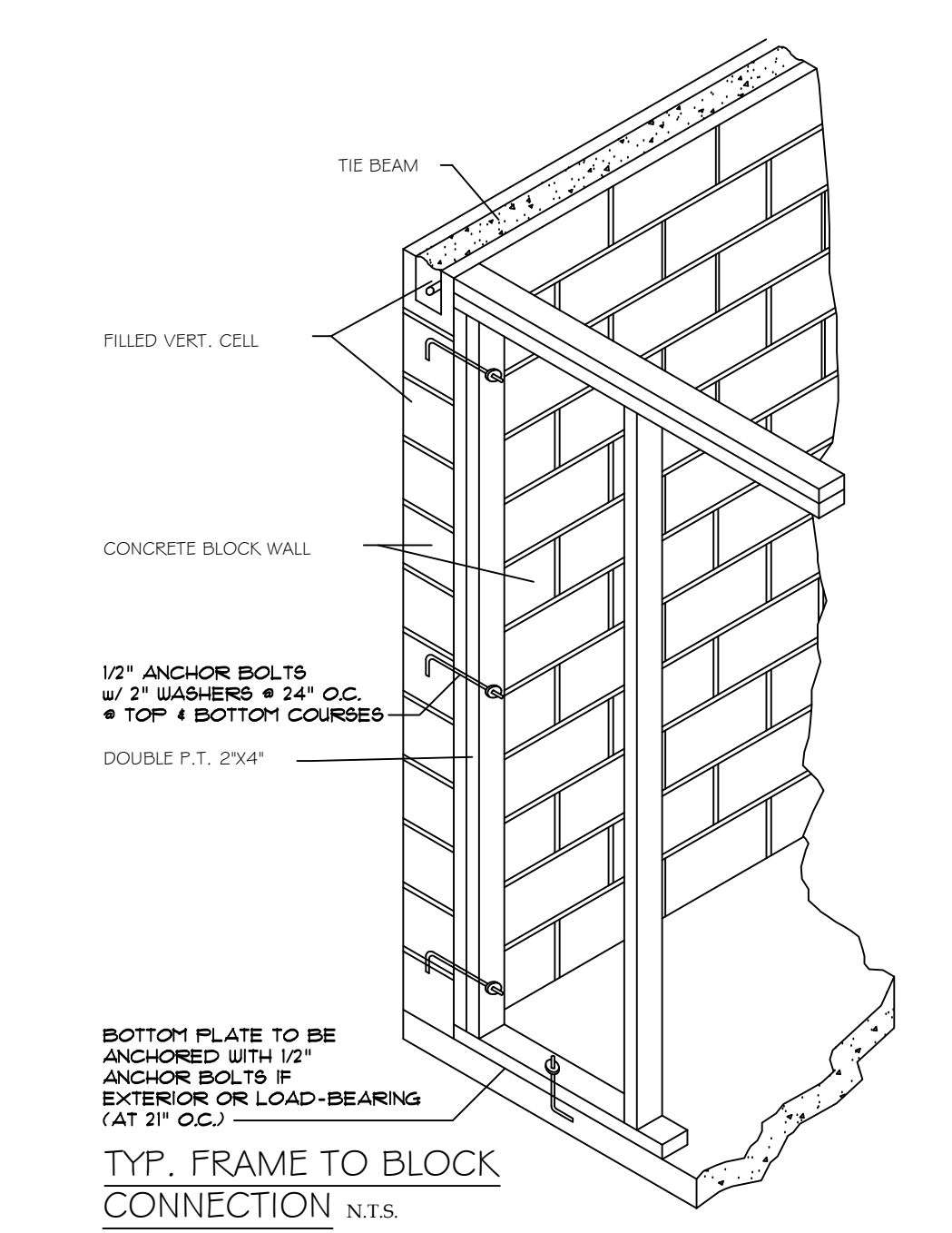
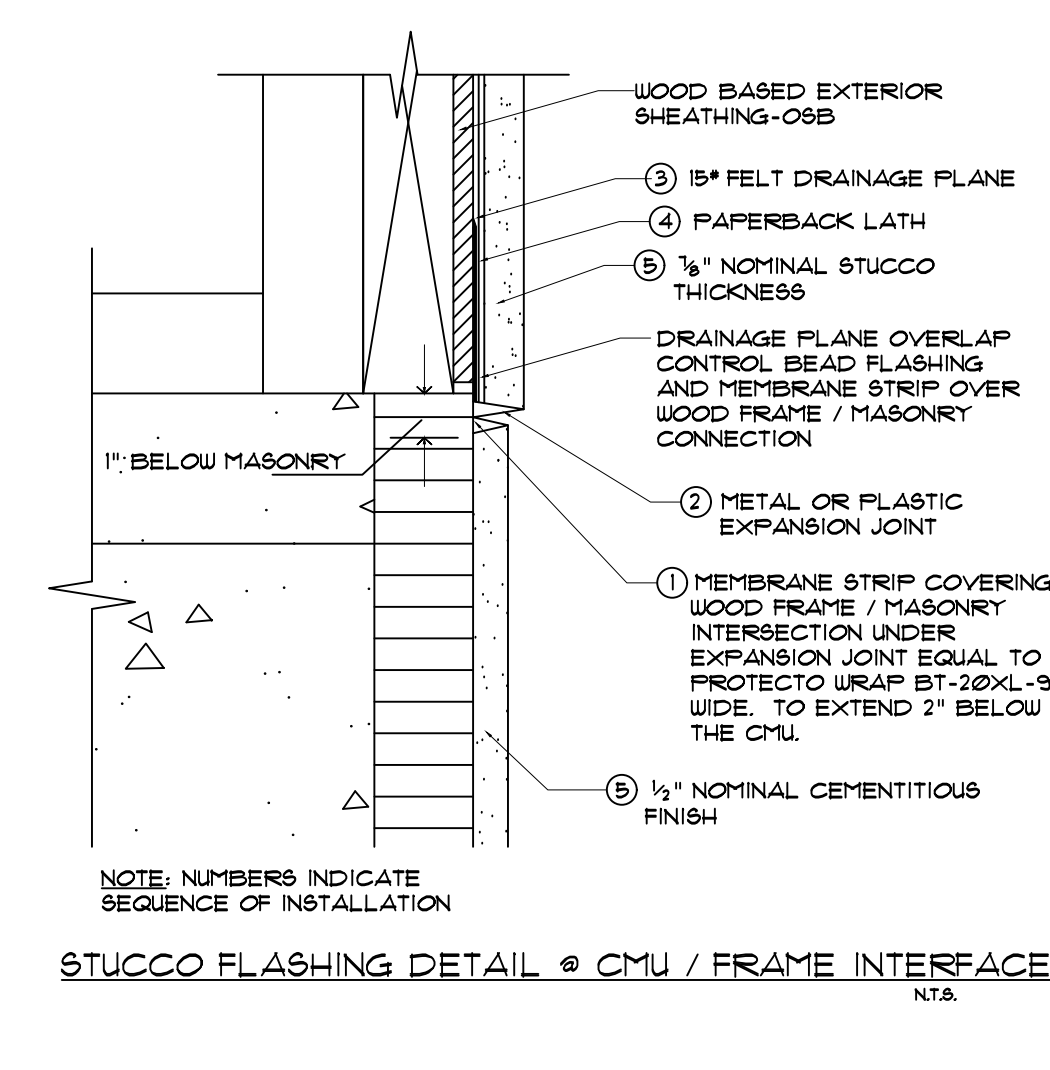
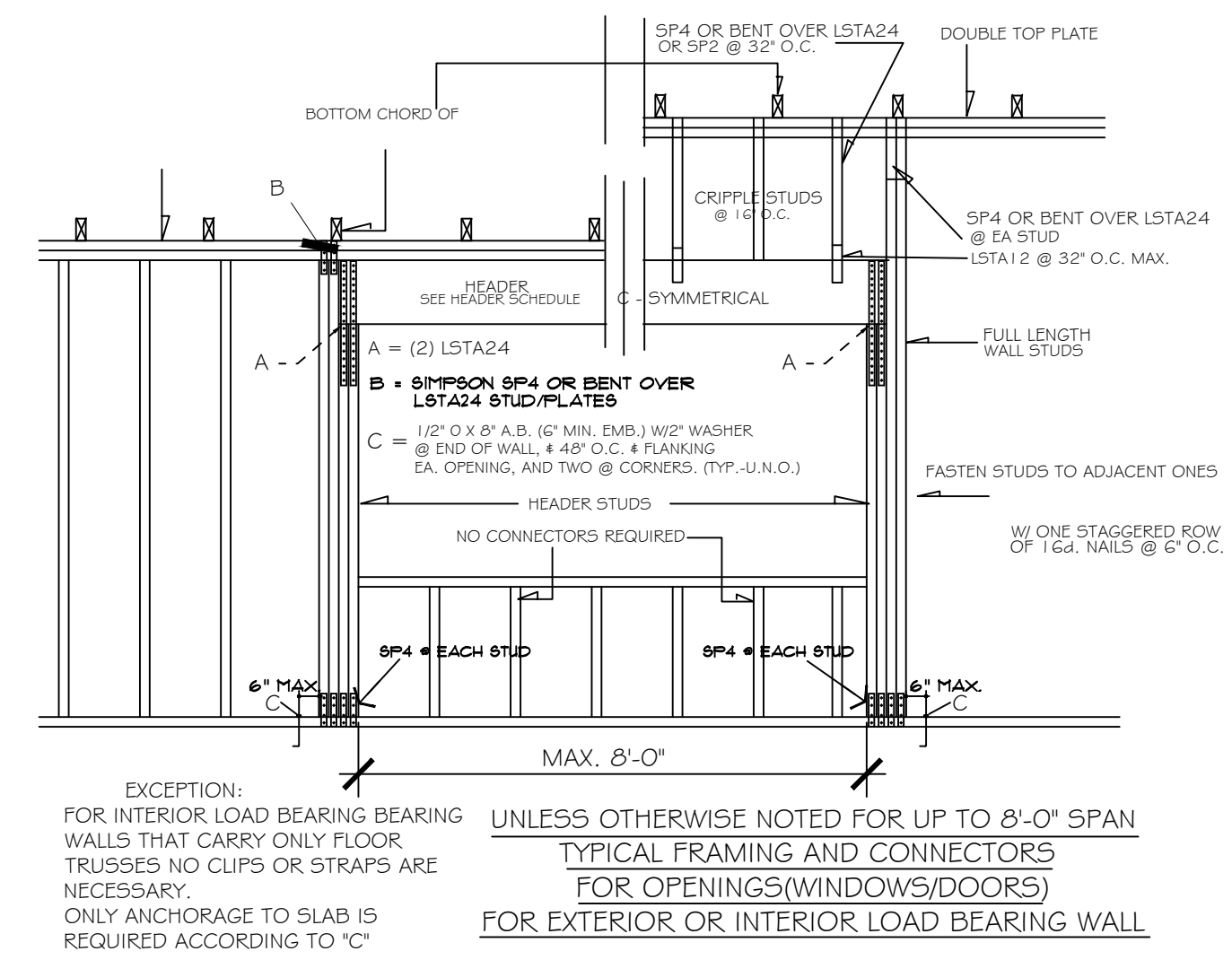
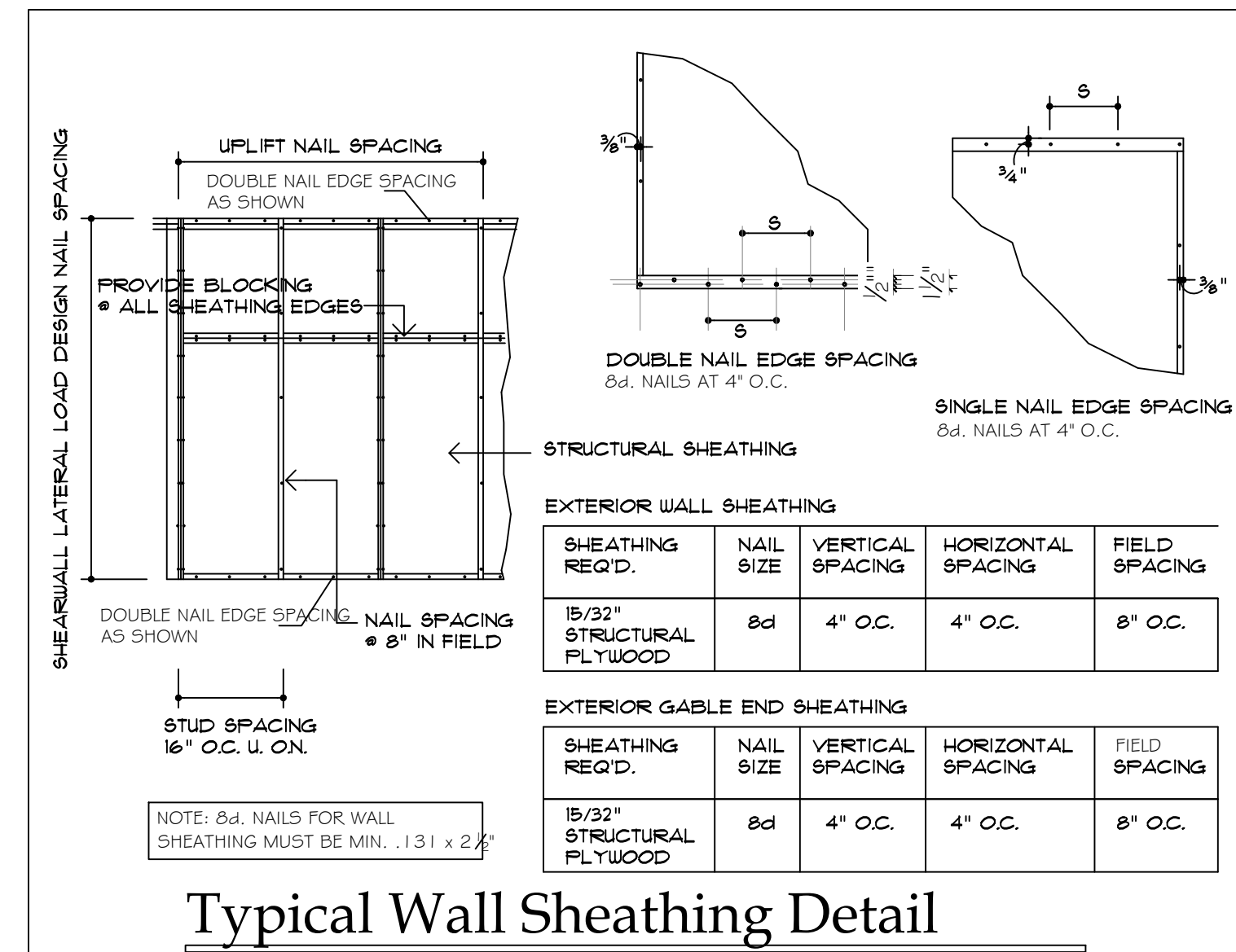
### SAFE LOAD TABLE NOTES

1. All values based on minimum 4" bearing. Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than G-1/2". Safe loads for all recessed lintels based on 8" nominal bearing.
2. N.R. = Not Rated.
3. Safe loads are total superimposed allowable load on the section specified.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. Additional lateral load capacity can be obtained by providing additional reinforced masonry above the precast lintel.
6. One #7 rebar may be substituted for two #5 rebars in 8" lintels only.
7. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at a-way from the face of support.
8. For composite lintel heights not shown, use safe load from next lower height.
9. All safe loads in units of pounds per linear foot.









**LIMITING HEIGHTS OF 2" STUDS**

FOR HIGH FRAMING CONDITIONS, THE APPLICATION OR CONNECTION OF AN INTERMEDIATE FRAMING SUCH AS FLOOR JOISTS, CEILING JOISTS, ETC., ALLOW TO REDUCE THE ALLOWABLE HEIGHT FOR STUDS.

SIZE STUD MATERIAL AT O.C. SPACING	MAXIMUM HEIGHT
2"x4" SPRUCE, FIR 24" O.C.	8'-0"
2"x4" SPRUCE, FIR 16" O.C.	9'-0"
2"x4" SPRUCE, FIR 12" O.C.	10'-0"
2"x4" SOUTHERN PINE, FIR 24" O.C.	9'-0"
2"x4" SOUTHERN PINE, FIR 16" O.C.	10'-9"
2"x4" SOUTHERN PINE, FIR 12" O.C.	12'-4"
2"x6" SPRUCE, FIR 24" O.C.	11'-4"
2"x6" SPRUCE, FIR 16" O.C.	13'-9"
2"x6" SPRUCE, FIR 12" O.C.	16'-0"
2"x6" SOUTHERN PINE, FIR 24" O.C.	13'-9"
2"x6" SOUTHERN PINE, FIR 16" O.C.	17'-0"
2"x6" SOUTHERN PINE, FIR 12" O.C.	19'-4"
2"x8" SPRUCE, FIR 24" O.C.	14'-9"
2"x8" SPRUCE, FIR 16" O.C.	18'-0"
2"x8" SPRUCE, FIR 12" O.C.	21'-0"
2"x8" SOUTHERN PINE, FIR 24" O.C.	18'-0"
2"x8" SOUTHERN PINE, FIR 16" O.C.	22'-3"
2"x8" SOUTHERN PINE, FIR 12" O.C.	25'-8"

