

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: **SHOPPES AT SUMMIT – SHELL BUILDING**
 Address: **1625 BUFFALO LAKE ROAD – SANFORD, NORTH CAROLINA** Zip Code: **27332**
 Owner/Authorized Agent: **BRIAN DeLONG** Phone: **(336) 667-8000** E-Mail: **brian@vpdevelopment.com**
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County: **HARNETT** State

CONTACT: ANDREW W. PRIVETTE

DESIGNER	FIRM	NAME	LICENCE	TELEPHONE	E-MAIL
Architectural	DESIGNED TO BUILD	ANDY PRIVETTE	3877	(910)485-8567	andy@designedtobuild.com
Civil					
Electrical	COASTAL PLAINS ENGR	CHRIS LOCKLEAR	20193	(910)521-7213	coastalplainseng@gmail.com
Fire Alarm					
Plumbing	COASTAL PLAINS ENGR	CHRIS LOCKLEAR	20193	(910)521-7213	coastalplainseng@gmail.com
Mechanical	COASTAL PLAINS ENGR	CHRIS LOCKLEAR	20193	(910)521-7213	coastalplainseng@gmail.com
Sprinkler- Standpipe					
Structural	KIRK EDMUNDS, PE, LLC	KIRK EDMUNDS	12047	(843)437-7131	kedmonds.pe@gmail.com
Retaining Walls >5' High					
Other					

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
 Addition Phased Construction-Shell Core

2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level 1 Historic Property
 Repair Alteration Level 2 Change of Use
 Chapter 14 Alteration Level 3

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

OCCUPANCY CATEGORY (Table 1604.5): **Current:** _____ **Proposed:** _____

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV
 V-A I-B II-B III-B
 V-B

Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Class I II III Wet Dry

Primary Fire District: No Yes **Flood Hazard Area:** No Yes

Special Inspections Required: No Yes

GROSS BUILDING AREA

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor		9,512 SF	9,512 SF
Basement			
Total		9,512 SF	9,512 SF

ALLOWABLE AREA

Primary Occupancy Classification(s):
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3 I-4
 1-3 Condition 1 2
 1-2 Condition 1 2
 1-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High Piled
 Parking Garage Open Enclosed
 Utility and Miscellaneous

Accessory Occupancy Classification(s): **N/A**
Incidental Uses (Table 509): **N/A**
Special Uses (Chapter 4 – List Code Sections): **N/A**
Special Provisions (Chapter 5 – List Code Sections): **N/A**
Mixed Occupancy: No Yes Separation: **2 Hr.** Exception: _____
 Non-separated Use (508.3)
 Separated Use (508.4) - See below for area calculations for each story.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{4,797/10,500 = 0.457}{0.457} + \frac{4,715/15,750 = 0.299}{0.299} = 0.756 \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASES ²	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
1ST	(A-2) RESTAURANT	4,797 SF	6,000 SF	4,500 SF	10,500 SF
1ST	(B) CLINIC	4,715 SF	9,000 SF	6,750 SF	15,750 SF

¹ Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = 520 (P)
 b. Total Building Perimeter = 520 (P)
 c. Ratio (F/P) = 1.0 (F/P)
 d. W = Minimum width of public way = 30 (W)
 e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 = 75$ (%)

² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT – WORST CASE A-2 ASSEMBLY

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	22	
Building Height in Stories (Table 504.4)	1	1	

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	>30	0	0				
East	>30	0	0				
West	>30	0	0				
South	>30	0	0				
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior							
North	N/A	N/A	N/A				
East	N/A	N/A	N/A				
West	N/A	N/A	N/A				
South	N/A	N/A	N/A				
Interior		0	0				
Floor Construction		N/A	N/A				
Including supporting beams and joists		N/A	N/A				
Floor Ceiling Assembly		N/A	N/A				
Columns Supporting Floors		N/A	N/A				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		N/A	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		2 HR	2 HR	G-102		UL U419	
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30	UP, NS	NO LIMIT	42% FRONT, 5% REAR, 10% SIDES

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes No
 Exit Signs: Yes No
 Fire Alarm: Yes No
 Smoke Detection System: Yes No
 Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS – SEE TENANT COMPLETION DOCUMENTS

Life Safety Plan Sheet #: **N/A FOR SHELL BUILDING**

Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107) - N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) – SEE TENANT COMPLETION DOCUMENTS

TOTAL OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # OF ACCESSIBLE SPACES PROVIDED
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) – SEE TENANT COMPLETION DOCUMENTS

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS			DRINKING FOUNTAINS		
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	
SPACE EXIST'G															
NEW															
REQ'D															

SPECIAL APPROVALS
 Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:

Existing building envelope complies with code: (If checked, the remainder of this section is not applicable.)

Exempt Building: Provide code or statutory reference:

Climate Zone: 3A 4A 5A

Method of Compliance:
 Energy Code: Performance Prescriptive
 ASHRAE 90.1: Performance Prescriptive
 Other: Performance (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

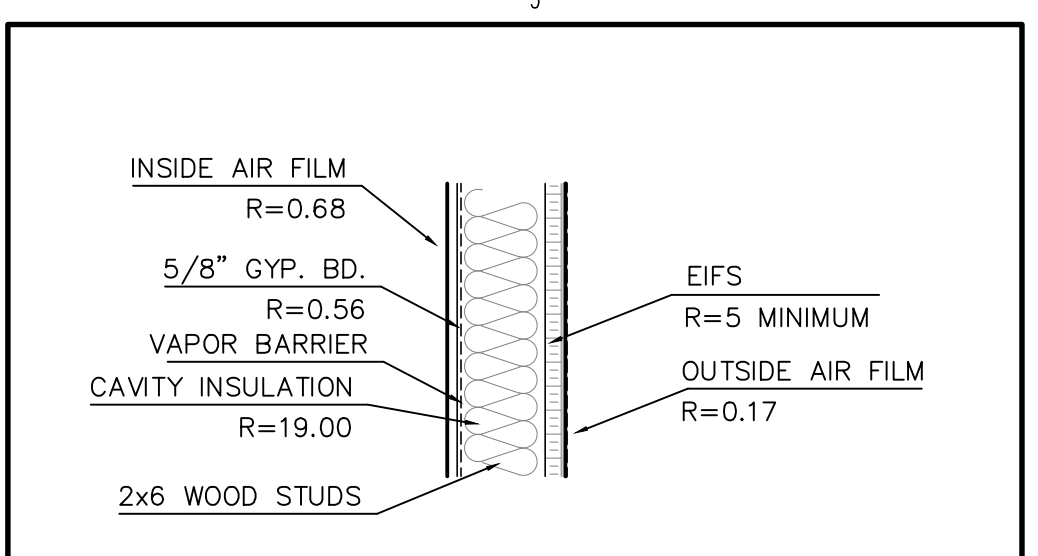
Roof/ceiling Assembly (each assembly)
 Description of assembly: LOW SLOPE, WOOD DECK, RIGID INSULATION, SINGLE PLY
 U-Value of total assembly: **0.029**
 R-Value of insulation: **R-30**
 Skylights in each assembly: **N/A**
 U-Value of skylight: **N/A**
 Total square footage of skylights in each assembly: **N/A**

Exterior Walls (each assembly)
 Description of assembly: **WOOD STUD, EIFS EXTERIOR**
 U-Value of total assembly: **0.0394**
 R-Value of insulation: **R-19 + R-5 ci**
 Openings (windows or doors with glazing):
 U-Value of assembly: **0.45**
 Solar heat gain coefficient: **0.25**
 Projection factor: **< 0.25** (assumed)
 Door R-Values: **R-1.3** (minimum)

Walls below grade (each assembly) **N/A**
 Description of assembly:
 U-Value of total assembly:
 R-Value of insulation:

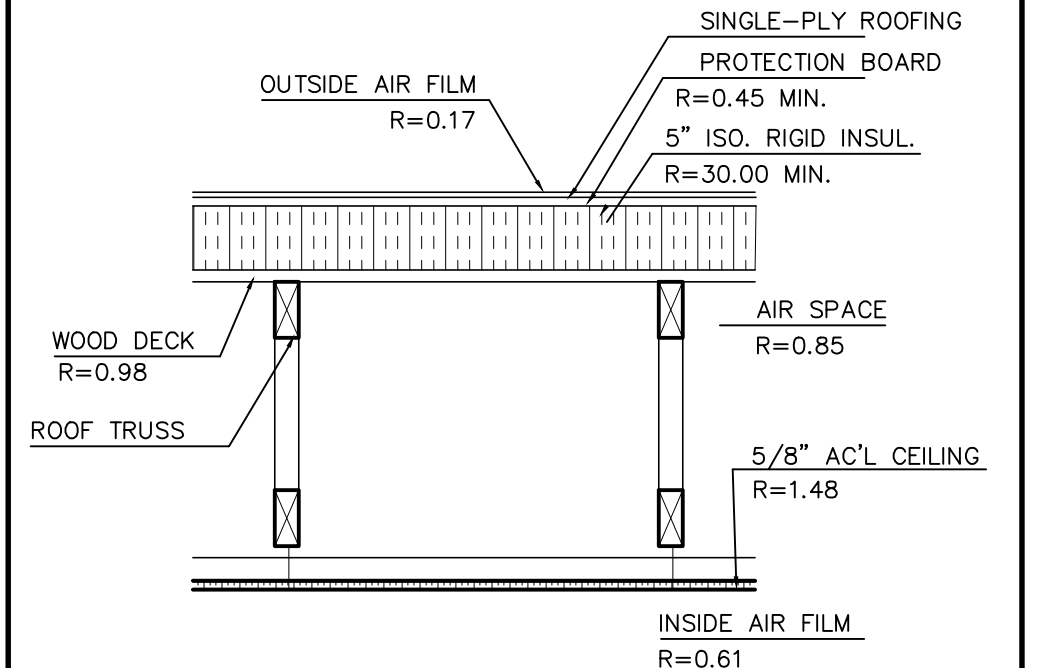
Floors over unconditioned space (each assembly) **N/A**
 Description of assembly:
 U-Value of total assembly:
 R-Value of insulation:

Floors slab on grade
 Description of assembly: **MONOLITHIC FOUNDATIONS**
 U-Value of total assembly: **N/A**
 R-Value of insulation: **R-15**
 Horizontal/vertical requirement: **24"**



TOTAL ASSEMBLY R = 25.41, U = 0.0394

ASSEMBLY WALL SECTION W1
 WD STUDS WITH BATT & EIFS
 1'-0"



TOTAL ASSEMBLY R = 34.54, U = 0.029

ASSEMBLY ROOF SECTION R1
 SINGLE PLY & RIGID ON WD DECK ON WD TRUSS W/ACCUS. CLG
 1'-0"

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS RESPONSIBLE TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

LIST OF DRAWINGS

INFORMATIONAL
 G-101 COVER SHEET 2018 NCBCS
 G-102 2-HR RATED FIRE BARRIER UL DESIGN NO. U419

SITE WORK
 UNDER SEPARATE COVER

STRUCTURAL
 S-1 STRUCTURAL NOTES
 S-2 FOUNDATION PLAN
 S-3 ROOF FRAMING PLAN
 S-4 STRUCTURAL WALL SECTIONS
 S-5 STRUCTURAL WALL SECTIONS AND DETAILS

ARCHITECTURAL
 A-101 FLOOR PLAN AND BRICK WALL PLAN
 A-102 UTILITY FLOOR PLAN
 A-103 ROOF PLAN AND DETAILS
 A-201 EXTERIOR ELEVATIONS FRONT AND LEFT SIDE
 A-202 EXTERIOR ELEVATIONS RIGHT SIDE AND REAR
 A-301 BUILDING AND WALL SECTIONS
 A-302 WALL SECTIONS AND DETAILS
 A-303 PATIO PARTIAL BUILDING SECTIONS
 A-401 DOORS, WINDOWS, FRAMES, HARDWARE AND SCHEDULES

ELECTRICAL
 E-1 ELECTRICAL PLAN
 E-2 ELECTRICAL DETAIL, RISER DIAGRAM, NOTES AND PANEL

PLUMBING
 P-1 PLUMBING PLAN

ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com

SHOPPES AT SUMMIT
 SHELL BUILDING
 1625 BUFFALO LAKE RD
 SPOUT SPRINGS/SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHK
REV-01	02.21.20	INSTRUCTION REVIEW COMMENTS	AWP	AWP
REV-02	02.21.20	PERMITS SET	AWP	AWP
REV-03	02.21.20	PERMITS SET	AWP	AWP

JOB CODE: 195MMI-SHELL
 DRAWN BY: **A. PRIVETTE**
 CHECKED BY: **A. PRIVETTE**
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
COVER SHEET BUILDING CODE SUMMARY
 REV-02.21.2020

G-101
 SHEET 1 OF 2

SHOPPES AT SUMMIT SHELL BUILDING
 1625 BUFFALO LAKE ROAD
 SANFORD, NORTH CAROLINA



ANDREW W. PRIVETTE, ARCHITECT

1920 FT. BRAGG ROAD - FAYETTEVILLE, N.C. 28303 - (910) 485-8567



NOVEMBER 11, 2019
 (REV-02.21.2020)

GENERAL STRUCTURAL:

THE GOVERNING CODE IS NORTH CAROLINA BUILDING CODE (NCBC) 2018 EDITION AND/OR LOCAL COUNTY CODE AMENDMENTS AND/OR ORDINANCES.

ANY REVISION INITIATED BY THE OWNER, GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR THAT DIRECTLY INFLUENCES OR CHANGES STRUCTURAL ELEMENTS INCLUDING, BUT NOT LIMITED TO FLOOR JOIST, BEAM OR HEADER SPANS, WALL HEIGHTS, BEAM OR HEADER SIZES, RELOCATION OF BEARING WALLS, FOOTING SIZES, ETC. AS INDICATED ON THESE DRAWINGS, ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING INDICATING THE PROPOSED CHANGES FOR REVIEW.

THESE DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. DIMENSIONS NOTED TAKE PRECEDENCE OVER SCALE.

ALL DIMENSIONS SHOWN ARE TO FACE OF STUD (F.O.S.), UNLESS OTHERWISE NOTED. DIMENSIONAL ADJUSTMENTS MAY INCLUDE, BUT ARE NOT LIMITED TO: CENTER LINE (C), FACE OF CONCRETE (F.O.C.) AND FACE OF MASONRY (F.O.M.)

COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE A KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS WHICH COULD AFFECT THEIR WORK.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS AND DRAWINGS REGARDING STRUCTURAL ISSUES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED.

THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND CONSTRUCTION PROCEDURES, FABRICATION PROCESS, COORDINATION OF WORK WITH OTHER TRADES AND JOB SITE SAFETY.

TEMPORARY BRACING, SHEATHING, SHORING, ETC., REQUIRED TO INSURE THE STRUCTURAL INTEGRITY/STABILITY OF THE EXISTING BUILDINGS, SIDEWALLS, UTILITIES, ETC., DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.

DESIGN LOADS

GRAVITY LOAD	
ROOF LIVE LOAD	= 20 PSF
PRIVATE ROOMS	= 40 PSF
PUBLIC ROOMS AND CORRIDORS SERVING THEM	= 100 PSF
DECKS	= 100 PSF
STAIRS AND EXITS	= 100 PSF
DEAD LOAD (ACTUAL WEIGHTS WITH A MIN. OF)	= 15 PSF
GROUND SNOW LOAD (Pg)	= 10 PSF
EXPOSURE FACTOR (Ce)	= 1.00
THERMAL FACTOR (Ct)	= 1.00
IMPORTANCE FACTOR (I)	= 1.00

ALLOWABLE DEFLECTION FACTOR FOR ROOF	
LIVE LOAD	= L/360
TOTAL LOAD	= L/240
FLOORS & DECKS	
LIVE LOAD	= L/480
TOTAL LOAD	= L/360

MEMBERS SUPPORTING MASONRY / BRICK	
LIVE LOAD	= L/600
TOTAL LOAD	= L/600

WIND LOAD	
ULTIMATE WIND SPEED	= 121 MPH (PER FIGURE 26.5-1A, ASCE 7-10)
EXPOSURE	= C

B

SEISMIC DATA

Ss = .241 S1 = .1026
 SITE CLASSIFICATION PRESUMPTIVE = D
 Fa = 1.60 Fv = 2.39
 Sms = .385 Sm1 = .245
 SEISMIC DESIGN COEFF. Sds = 2.57 Sd1 = .163
 SEISMIC DESIGN CATEGORY = C

SEISMIC FORCE RESISTING SYSTEM = LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
 RESPONSE MODIFICATION COEFFICIENT(R) = 7 (AS PER ASCE 7-10, TABLE 12.2-1)

Cs = .0395

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

LATERAL DESIGN CONTROL = WIND

A

CONCRETE

ALL CONCRETE FOR FOOTINGS, FOUNDATION WALLS, RETAINING WALLS, AND FLOOR SLABS ON GRADE SHALL ATTAIN A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:

FOUNDATION WALLS, FOOTINGS AND GRADE SLABS : 3,000 PSI
 BASEMENT SLABS AND SLABS EXPOSED TO WEATHER : 3,000 PSI

ALL CONCRETE EXPOSED TO THE WEATHER AND SUBJECT TO FREEZING AND THAWING IN A MOIST WET CONDITION OR DEICING CHEMICALS SHALL BE AIR ENTRAINED, THE TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) SHALL NOT BE LESS THAN 5 PERCENT (5%) OR MORE THAN 7 PERCENT (7%) & MAXIMUM WATER CEMENT RATIO OF 0.45.

LOCATION OF CONCRETE	MAXIMUM SIZE OF AGGREGATE	SLUMP	MAXIMUM WATER/CEMENT RATIO BY WEIGHT
FOUNDATIONS (GRADE BEAMS & FOOTINGS)	3000 PSI	1 1/2"	0.45 (0.44)
SLABS ON GRADE	3000 PSI	2"	0.44 (0.44)

ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED AND KEYS PROVIDED WHERE REQUIRED OR INDICATED ON THE DRAWINGS. CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, MAY BE PROPOSED BY THE CONTRACTOR. HOWEVER, THE LOCATIONS ARE SUBJECT TO REVIEW BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER. ALL VERTICAL CONSTRUCTION, CONTROL AND CONTRACTION JOINTS SHALL LIE IN TRUE VERTICAL PLANE.

ALL FORMWORK AND PLACING OF CONCRETE SHALL BE PLUMB, LEVEL, AND SQUARE. THE STRUCTURAL ENGINEER SHALL REVIEW AND APPROVE ANY PROPOSED FORMWORK DESIGN DIFFERENT FROM INDUSTRY STANDARD PRACTICES.

EXTERIOR SLAB AREAS SHALL BE BROOM FINISHED, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. THE STROKES SHALL MAINTAIN THE SAME DIRECTION AT ADJACENT SURFACES. NO RIPPLES, BUMPS, OR ANY OTHER IRREGULARITIES WILL BE ACCEPTABLE.

CONTRACTOR IS RESPONSIBLE FOR SUBMITTING CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE.

CONTRACTOR SHALL LOCATE CONTROL JOINTS AS REQUIRED (MAXIMUM SPACING IN ANY DIRECTION SHALL NOT EXCEED 12'-0") REFER TO DETAILS

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 OR BETTER. ALL REINFORCING BAR DIMENSIONS SHOWN ON THE DRAWINGS ARE TO THE CENTER LINE OF BARS, UNLESS OTHERWISE NOTED. ALL CONCRETE AND REINFORCING STEEL SHALL BE FURNISHED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE STRUCTURES, (ACI 318-14). REINFORCED STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE CLEAR CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE:

- A. CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH : 3"
- B. EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS : 2"
#5 BARS AND SMALLER : 1.5"
- C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND (SLABS AND WALLS) : 0.75"
- D. BEAMS, GIRDERS, COLUMNS, PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS : 1.5"

STEEL REINFORCING REQUIREMENTS IN CONCRETE FLOOR SLABS SHALL BE AS REQUIRED BY CODE AND/OR LOCAL JURISDICTIONS, OR PER SITE CONDITIONS.

TABLE 1-MINIMUM REINFORCING BAR LAP SPLICE AND ANCHORAGE DIMENSIONS TABLE				
TABLE FOR A615 GRADE 60- UNCOATED REINFORCING				
BAR SIZE	TOP BARS		OTHER BARS	
	LAP (INCHES)	ANCHOR (INCHES)	LAP (INCHES)	ANCHOR (INCHES)
#3	18	14	16	12
#4	26	20	20	15
#5	40	31	31	24
#6	57	44	44	34

WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR, USE WHICHEVER DIMENSION IS LARGER.

TOP BARS SHALL BE DEFINED AS BEAM AND SLAB HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE TOP REINFORCEMENT. HORIZONTAL REINFORCING IN WALLS SHALL BE CONSIDERED AS TOP BARS.

STRUCTURAL STEEL

ALL STEEL SHALL BE ASTM, A-992 MINIMUM, Fy=50 KSI UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP AND FIELD FASTENERS SHALL BE ASTM A-325 HSB (HIGH STRENGTH BOLTS); IN FRICTION TYPE CONNECTIONS USE "TURN-OFF-NUT" METHOD IN TIGHTENING ALL BOLTS.

HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE STANDARD ANGLE WALL ANCHORS FOR BEAMS RESTING ON MASONRY.

STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST AISC MANUAL. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:-

W SHAPE BEAM AND COLUMNS	: A992-GR50	(Fy = 50 KSI)
STEEL PLATE, CHANNELS AND ANGLES	: A36	(Fy = 36 KSI)
STRUCTURAL PIPES AND TUBES	: A500-GRADE "B"	(Fy = 46 KSI)
ANCHOR BOLTS	: A307	
HIGH STRENGTH BOLTS	: A325	

BOLTED CONNECTIONS TO USE A325-TYPE N, HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS TIGHTENED TO A SNUG TIGHT CONDITION IN ACCORDANCE WITH RCSC SPECIFICATIONS.

BOLTS IN MOMENT CONNECTIONS SHALL BE ASTM A325-TYPE SC (SLIP CRITICAL). SLIP CRITICAL CONNECTIONS SHALL HAVE CONTACT SURFACES MEETING CLASS A SURFACE CONDITIONS BOLTS SHALL BE TENSIONED.

SHOP CONNECTIONS TO BE WELDED OR BOLTED. FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SHOWN. BOLT HOLES TO BE STANDARD ROUND HOLES (d+1/16") UNLESS OTHERWISE NOTED. SHORT SLOTS SHALL BE PERMITTED NORMAL TO THE LOAD DIRECTION IN SLIP CRITICAL AND BEARING TYPE CONNECTIONS AS PER AISC REQUIREMENTS.

ALL WELDING WORK SHALL BE PERFORMED PER SPECIFICATIONS AND GUIDELINES OF AMERICAN WELDING SOCIETY.

STRUCTURAL LUMBER

STRUCTURAL LUMBER SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) 2005 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. ALL STRUCTURAL FRAME MEMBERS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

SYP #2 (HEADERS & BEAMS)

Fb	BENDING	: 975 psi
Ft	TENSION (parallel to grain)	: 550 psi
Fv	SHEAR (parallel to grain)	: 175 psi
Fc ⊥	COMPRESSION (perpendicular to grain)	: 565 psi
Fc	COMPRESSION (parallel to grain)	: 1450 psi
E	MODULUS OF ELASTICITY	: 1,600,000 psi
Emin.	MODULUS OF ELASTICITY	: 580,000 psi

SPF STUD GRADE (POSTS & STUDS)

Fb	BENDING	: 675 psi
Ft	TENSION (parallel to grain)	: 350 psi
Fv	SHEAR (parallel to grain)	: 135 psi
Fc ⊥	COMPRESSION (perpendicular to grain)	: 425 psi
Fc	COMPRESSION (parallel to grain)	: 725 psi
E	MODULUS OF ELASTICITY	: 1,200,000 psi
Emin.	MODULUS OF ELASTICITY	: 440,000 psi

DESIGN PROPERTIES FOR:
 MICROLAM LVL (BEAM)

GRADE = 1.9E

Fb	BENDING	: 2,600 psi
Fv	SHEAR (parallel to grain)	: 285 psi
Fc ⊥	COMPRESSION (perpendicular to grain)	: 750 psi
Fc	COMPRESSION (parallel to grain)	: 2,510 psi
E	MODULUS OF ELASTICITY	: 1,900,000 psi

PARALLAM PSL (BEAM)

GRADE = 2.0E

Fb	BENDING	: 2,900 psi
Fv	SHEAR (parallel to grain)	: 290 psi
Fc ⊥	COMPRESSION (perpendicular to grain)	: 750 psi
Fc	COMPRESSION (parallel to grain)	: 2,900 psi
E	MODULUS OF ELASTICITY	: 2,000,000 psi

ALL WOOD SHALL BE MINIMUM 8" ABOVE FINISH GRADE, OR SHALL BE PRESSURE TREATED.

WHERE INDICATED ON THE DRAWINGS ENGINEERED FLOOR "I" JOISTS SHALL BE MANUFACTURED BY WEYERHAEUSER TRUSS JOISTS. PRIOR TO ORDERING THE GENERAL CONTRACTOR SHALL ACQUIRE SHOP DRAWINGS FROM THE FLOOR JOIST MANUFACTURER AND SUBMIT THEM TO ENGINEER OF RECORD IN A TIMELY MANNER FOR REVIEW PRIOR TO ORDERING. IN THE EVENT THE GENERAL CONTRACTOR FAILS TO SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER THE GENERAL CONTRACTOR AND THE FLOOR JOIST MANUFACTURER SHALL BEAR ALL DESIGN, PERFORMANCE AND LEGAL RESPONSIBILITIES OF THE FLOOR SYSTEM(S) AND HOLD STRUCTURAL ENGINEER HARMLESS.

PROVIDE 3/4" TONGUE AND GROOVE PLYWOOD (APA 24/16 RATED STRUCT-I-FLOOR) GLUED AND NAILED TO THE FLOOR JOISTS TO MEET THE AMERICAN PLYWOOD ASSOCIATION (APA) APPROVED GLUED FLOOR SYSTEM, UNLESS OTHERWISE SPECIFIED.

LUMBER EXPOSED TO THE ELEMENTS, MASONRY INCLUDING BUT NOT LIMITED TO: POSTS, BEAMS, DECKING, DECK, FRAMING LEDGERS, ETC. SHALL BE PRESSURE TREATED.

REQUIRED POST SIZES FROM POINT LOADS AT GIRDER TRUSS BEAM AND/OR HEADER END LOCATIONS SHALL BE CONTINUOUS, BEARING ONTO BEAMS OR CONTINUOUS TO FOOTINGS AS INDICATED. PROVIDE SQUASH BLOCKS BETWEEN FLOOR FRAMING AS NECESSARY OR REQUIRED.

STRUCTURAL CONNECTORS INDICATED ON THESE DOCUMENTS SHALL BE PROVIDED BY SIMPSON STRONG-TIE COMPANY, INC., PROVIDE JOIST HANGERS AT EACH END OF ALL FLOOR JOISTS, AND/OR BEAMS FLUSH WITH ADJACENT BEAMS, HEADERS. PROVIDE COLUMN CAPS AND POST BASES AT ALL STRUCTURAL LOAD BEARING WOOD BEAMS.

STRUCTURAL MEMBERS INDICATED ARE REQUIRED MINIMUM SIZES AND MAY BE INCREASED TO ALIGN WITH ADJACENT FRAMING MEMBERS AS NECESSARY OR REQUIRED WITHOUT ADDITIONAL STRUCTURAL ENGINEERING AT THE GENERAL CONTRACTOR/OWNER'S DISCRETION.

PREFABRICATED WOOD TRUSSES

ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS. CLIPS OR ANCHORS TO BE SPECIFIED BY ENGINEER OF RECORD BASED ON REVIEW OF TRUSS SHOP DRAWINGS.

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

TRUSSES SHALL BE DESIGNED TO SUPPORT THE INDICATED DESIGN LOADS PLUS THE SELF-WEIGHTS OF THE TRUSSES.

TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN NOTES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. DESIGN NOTES SHALL INCLUDE THE RATED LOAD CAPACITY OF THE CONNECTORS USED TO CONNECT THE TRUSS MEMBERS AT THE PANEL POINTS, CERTIFICATION OF THE CONNECTOR CAPACITIES AND THE MANUFACTURER'S LICENSE VERIFYING THAT ARE CERTIFIED TO MANUFACTURE THE TRUSSES UTILIZING THE PROPOSED TRUSS CONNECTOR SYSTEM.

THE CONTRACTOR SHALL REVIEW ALL TRUSS FABRICATION AND INSTALLATION DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT AND PRIOR TO FABRICATION.

TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING SHALL BE DESIGNED BY THE TRUSS MANUFACTURER'S ENGINEER. ALL BRACING AND BRIDGING SHALL BE INDICATED ON THE TRUSS INSTALLATION DRAWINGS.

THE CONTRACTOR SHALL KEEP TWO COMPLETE SETS OF THE REVIEWED TRUSS SHOP DRAWINGS AND CALCULATIONS ON THE JOB SITE. ONE SET OF THESE DRAWINGS SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR FOR FRAMING INSPECTION.

TRUSSES SHALL BE DESIGNED TO SUPPORT ALL SPECIFIED AND INDICATED LOADS IN ACCORDANCE WITH THE LOAD COMBINATIONS IN THE BUILDING CODE. THE TRUSS MANUFACTURER SHALL LOCATE AND COMPUTE THE MAGNITUDES OF ALL SNOW DRIFT LOADS. THE TRUSS MANUFACTURER SHALL LOCATE AND COMPUTE AND ACCOUNT FOR ALL ADDITIONAL LOADS AND REACTIONS FROM ALL OVER-FRAMING AND PIGGY-BACK TRUSSES CONNECTED TO OR BEARING UPON OTHER SUPPORTING TRUSSES.

HANGER SCHEDULE U.N.O.

HANGER SCHEDULE	
SIZE	HANGER
2x6 thru 2x12	LB
4x6 thru 4x14	HUSTF
4x16	HUTF
TJI	ITT
3 1/2" & 5 1/4" xPSL OR LVL	GLTV
7" x PSL OR LVL	HGLTV

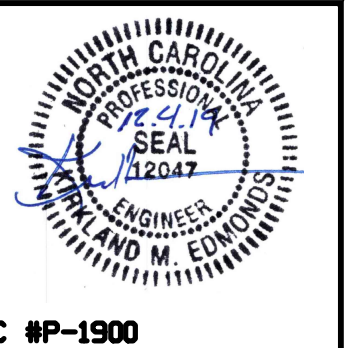
NOTES:
 1. PROVIDE SKEWED, SLOPED HANGERS AS REQ'D.
 2. USE HANGERS SHOWN ON SCHED. U.N.O. ON PLANS.
 3. WHEN HANGERS ARE EXPOSED TO WEATHER OR IN CONTACT OF TREATED LUMBER USE "Z" GALVANIZED CONNECTIONS.

PERMITTING STAMP:



ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com

KIRK M. EDMONDS, P.E. LLC
 P.O. BOX 6
 MURRELLS INLET S.C. 29576
 843-437-7131
 KEDMONDS.PE@GMAIL.COM



SHOPES AT SUMMIT
 SHELL BUILDING
 1625 BUFFALO LAKE RD
 SPOUT SPRINGS/SANFORD, NORTH CAROLINA

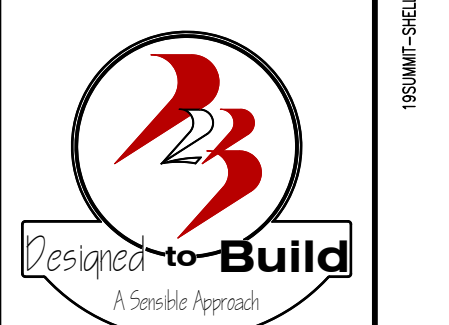
NO.	REVISION	DATE	BY	CHK

JOB CODE: 19SUMMIT-SHELL
 DRAWN BY: KME
 CHECKED BY: K.EDMONDS
 COPYRIGHT:
 DESIGNED TO BUILD

SHEET TITLE:
 STRUCTURAL NOTES

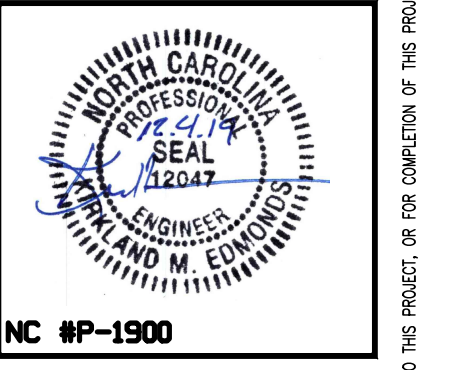
S-1
 SHEET 1 OF 5

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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com

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 KEDMONDS.PE@GMAIL.COM



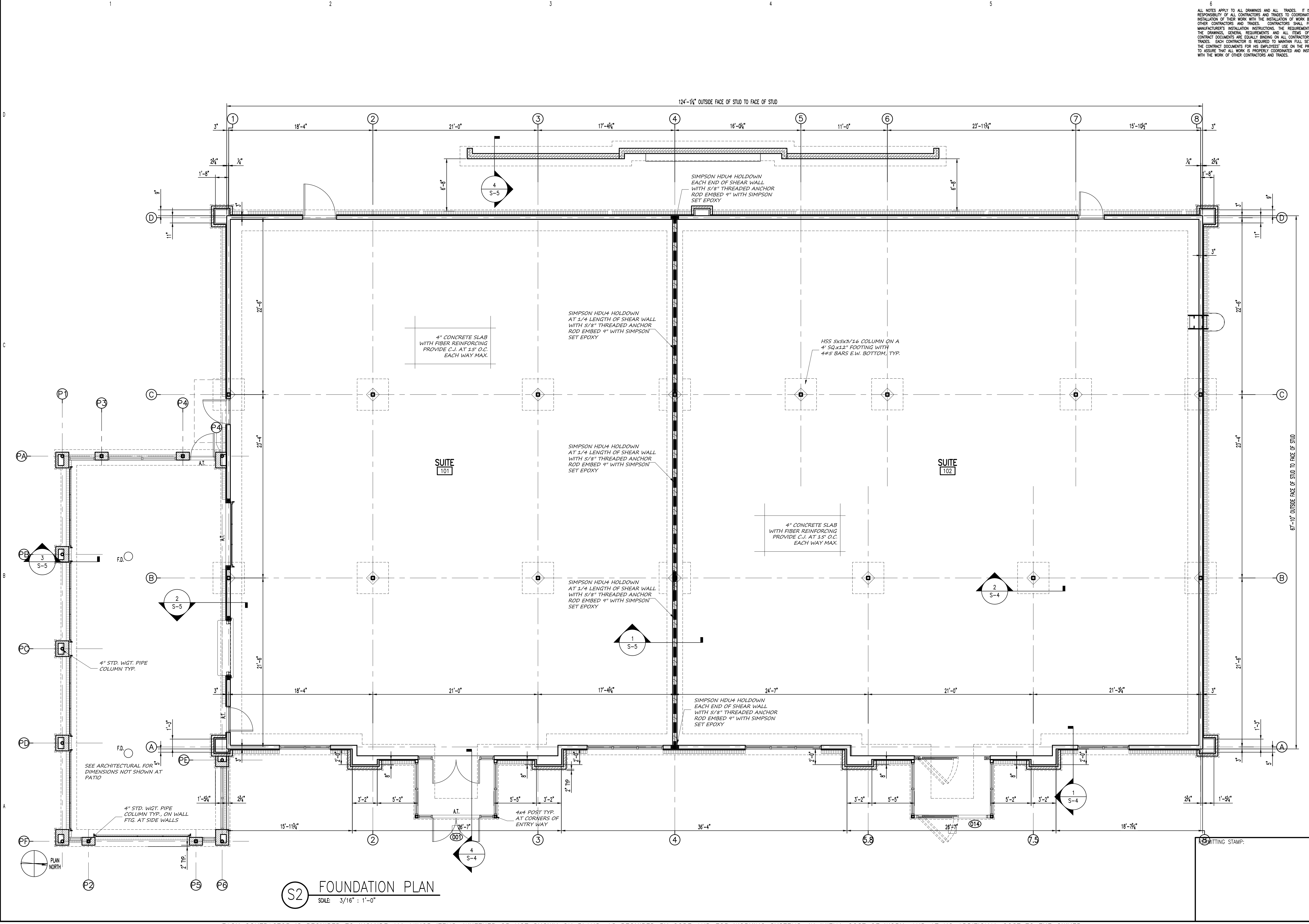
**SHOPPES AT SUMMIT
 SHELL BUILDING
 1625 BUFFALO LAKE RD
 SPOUT SPRINGS/SANFORD, NORTH CAROLINA**

CD	DATE	DESCRIPTION	CHK

JOB CODE: 19SUMMIT-SHELL
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 CHECKED BY: K. EDMONDS
 COPYRIGHT:
 DESIGNED TO BUILD

SHEET TITLE:
**FOUNDATION PLAN
 MAIN BLDG
 BRICK WALL**

S-2
 SHEET 2 OF 5



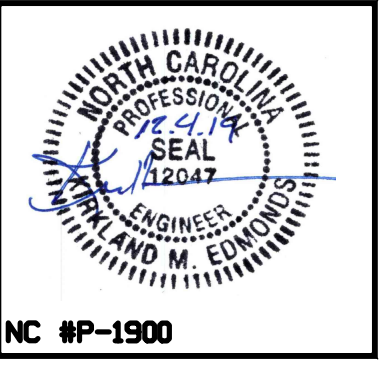
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 FAYETTEVILLE,
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 TELE. (910) 485-8567
 andy@designedtobuild.com

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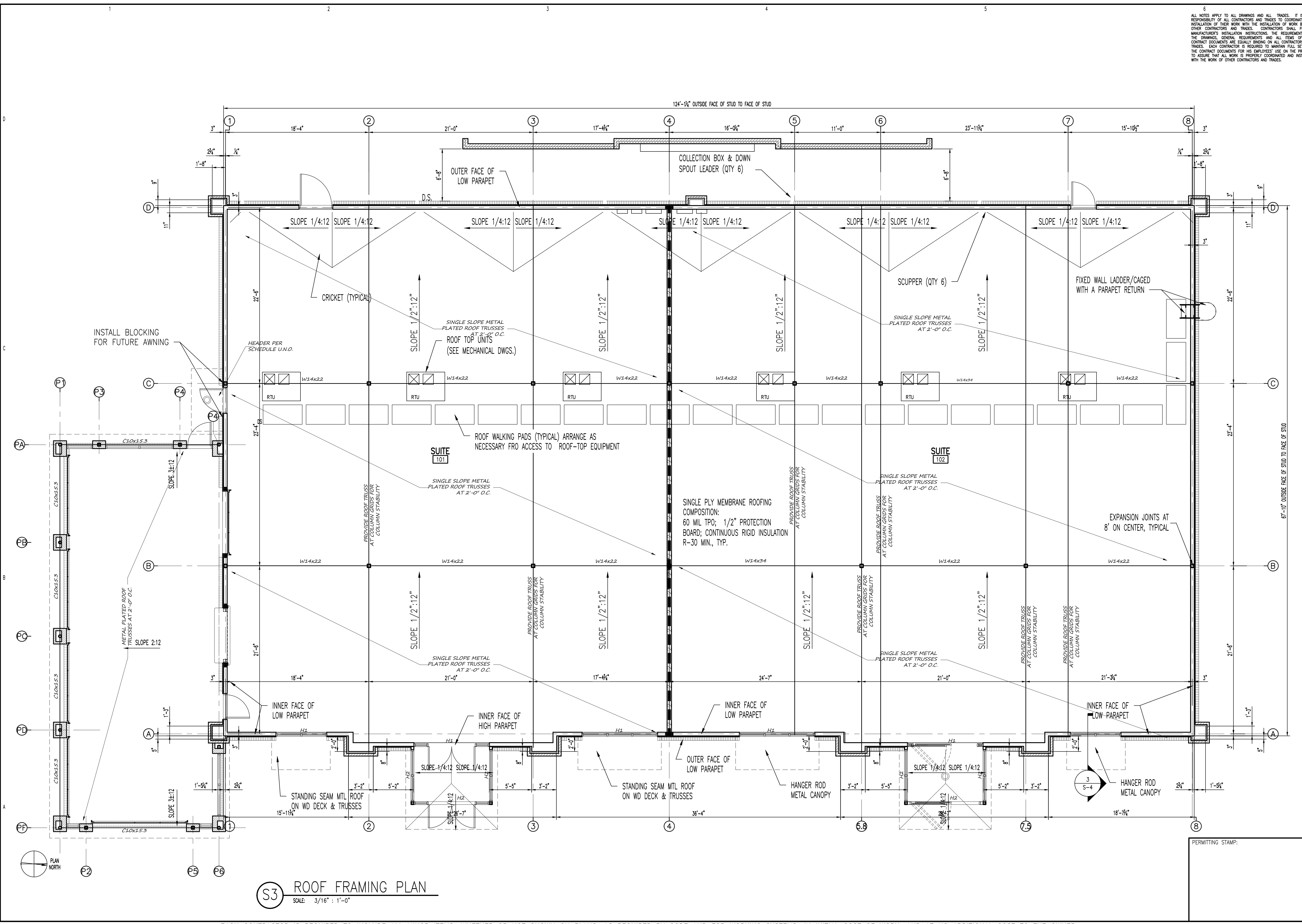
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JOB CODE: 19SUMMIT-SHELL
 DRAWN BY: KME
 CHECKED BY: K. EDMONDS
 DESIGNED BY: K. EDMONDS
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 PREPARED TO BUILD

SHEET TITLE:
ROOF FRAMING PLAN

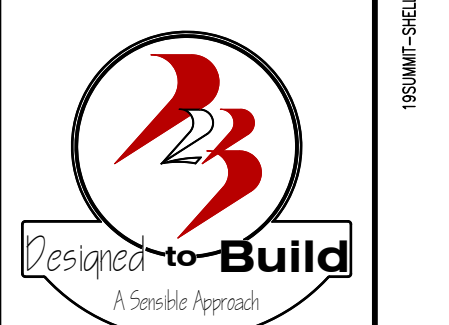
S-3
 SHEET 3 OF 5



S3 ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

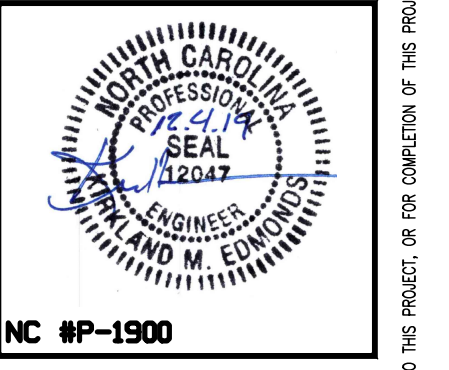
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 NORTH CAROLINA 28303
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 andy@designedtobuild.com

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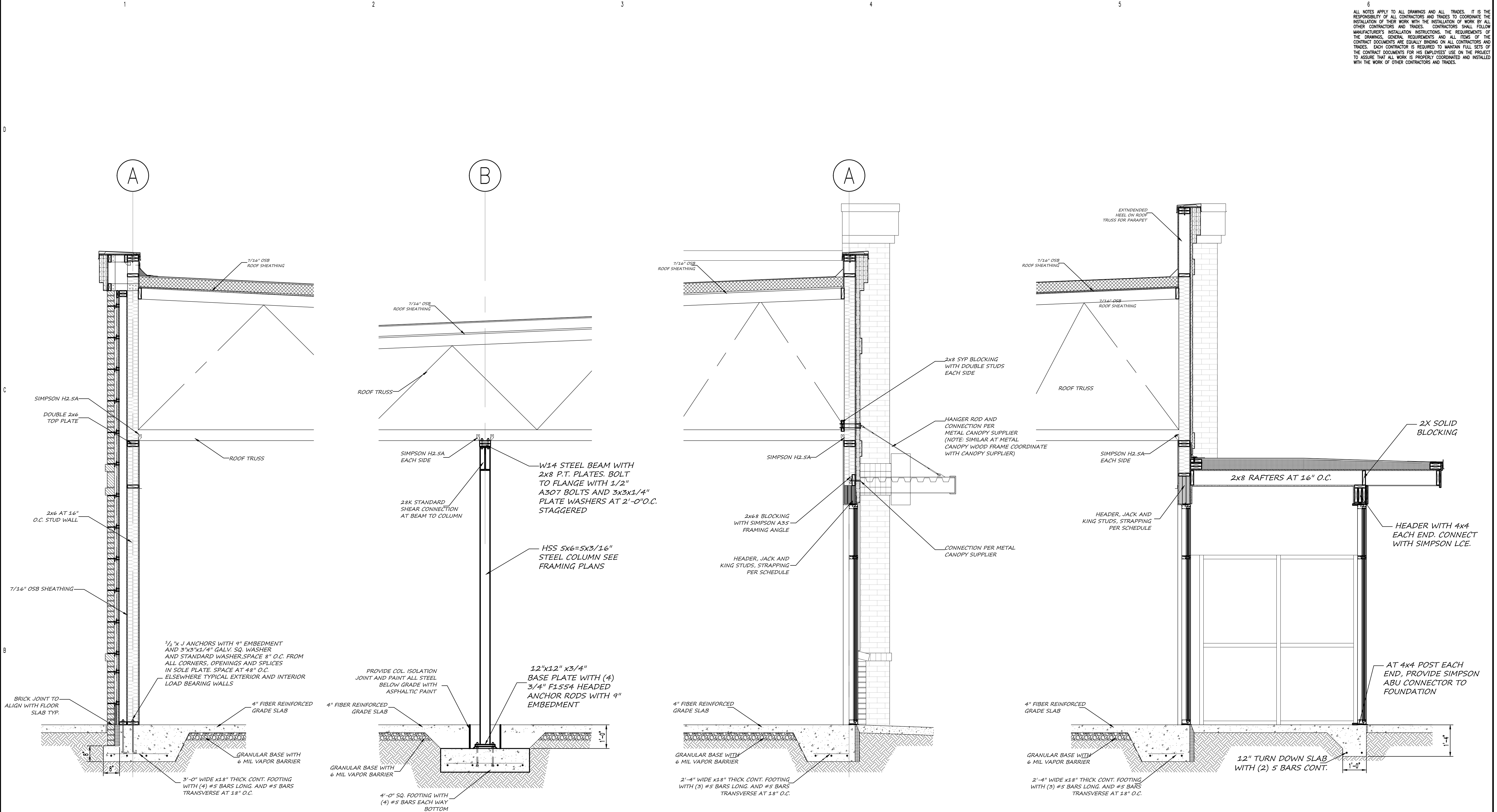
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NO.	DATE	DESCRIPTION	BY	CHK
1	12/04/19	PERMIT SET		
2				
3				
4				

JOB CODE: 19SUMMIT-SHELL
 DRAWN BY: KME
 CHECKED BY: K.EDMONDS
 COPYRIGHT:
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SHEET TITLE:
STRUCTURAL WALL SECTIONS

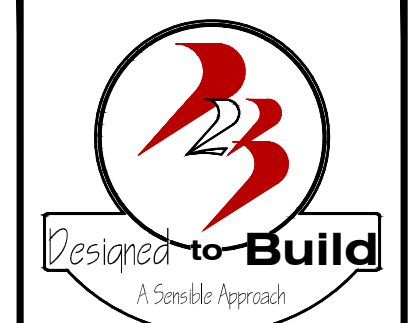
S-4
 SHEET 4 OF 5



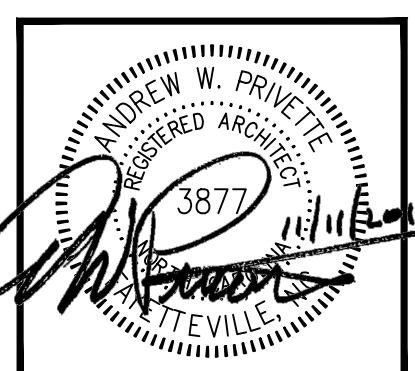
1 STRUCTURAL WALL SECTION SCALE: 1/2" : 1'-0"
 2 STRUCTURAL WALL SECTION SCALE: 1/2" : 1'-0"
 3 STRUCTURAL WALL SECTION SCALE: 1/2" : 1'-0"
 4 STRUCTURAL WALL SECTION SCALE: 1/2" : 1'-0"

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6
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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



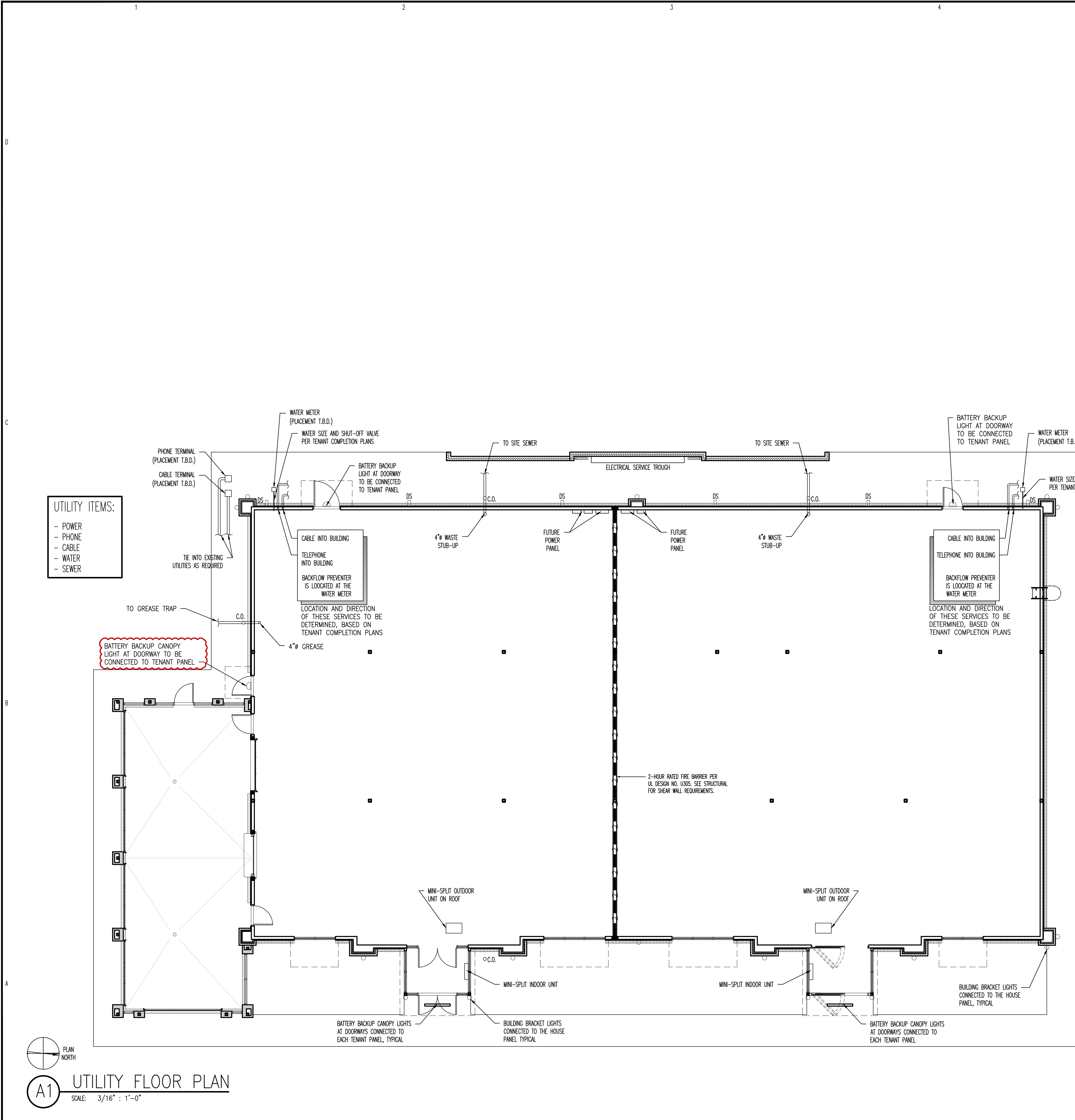
SHOPPES AT SUMMIT
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 SPOUT SPRINGS/SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHK
REV-02	06-18-20	COURN. SUC. REVIEW COMMENTS	AMP	AMP
REV-01	02-21-20	INSPECTOR REVIEW COMMENTS	AMP	AMP
CD	11-11-19	PERMITS SET	AMP	AMP

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 DRAWN BY: A. PRIVETTE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
 UTILITY FLOOR PLAN
 UPDATED 06-18-20

A-102
 SHEET 2 OF 9



PLAN NORTH
 A1 UTILITY FLOOR PLAN
 SCALE: 3/16" = 1'-0"

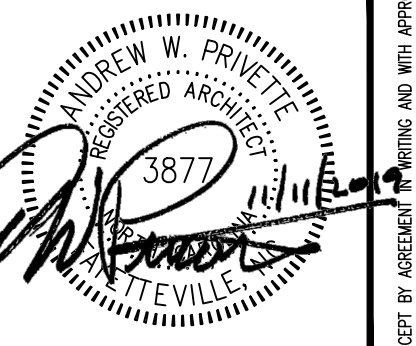
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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



RAYWEST
 DESIGNBUILD

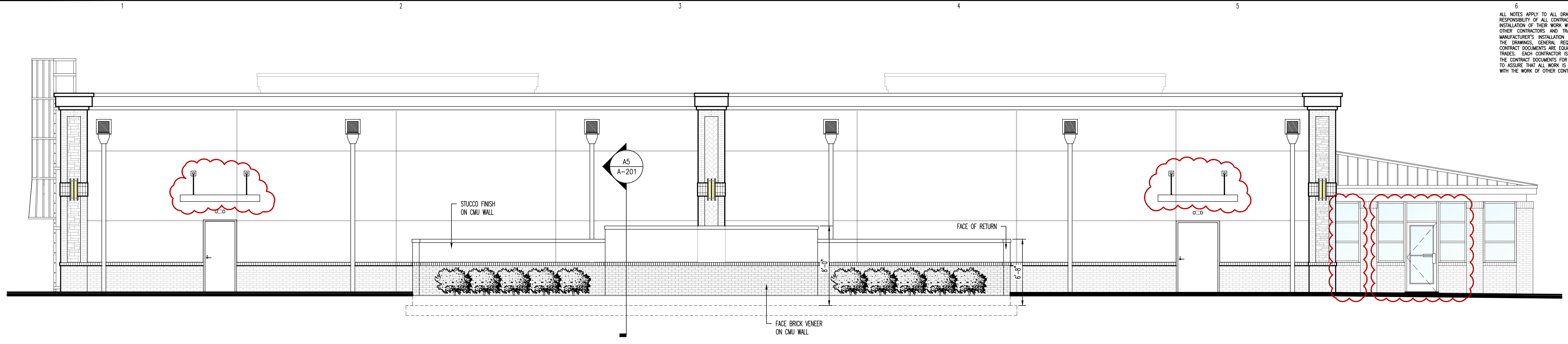
SHOPPES AT SUMMIT
 SHELL BUILDING
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NO.	DATE	DESCRIPTION	BY	CHK

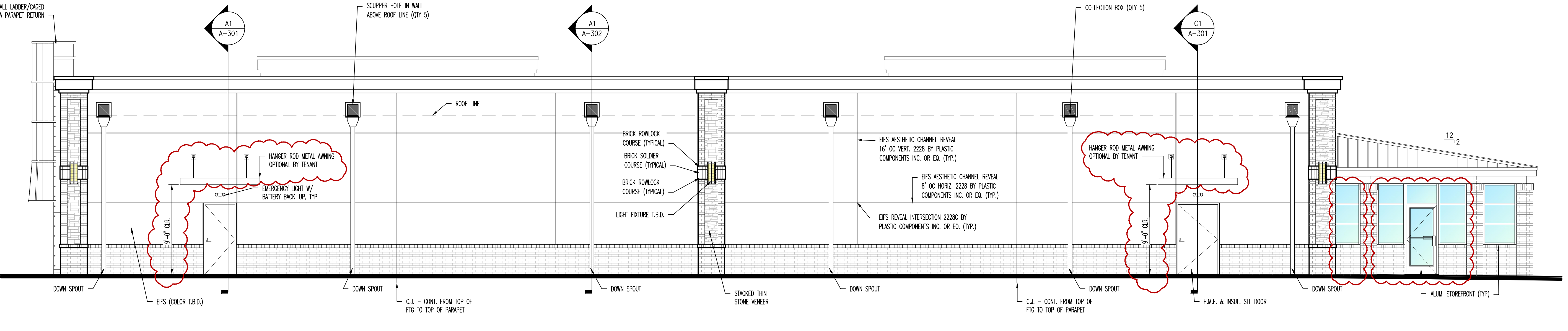
JOB CODE: 19SUMMIT-SHELL
 DRAWN BY: A. PRIVETTE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
**EXTERIOR ELEVATIONS
 SCREEN WALL SECTION**
 UPDATED: 06-18-20

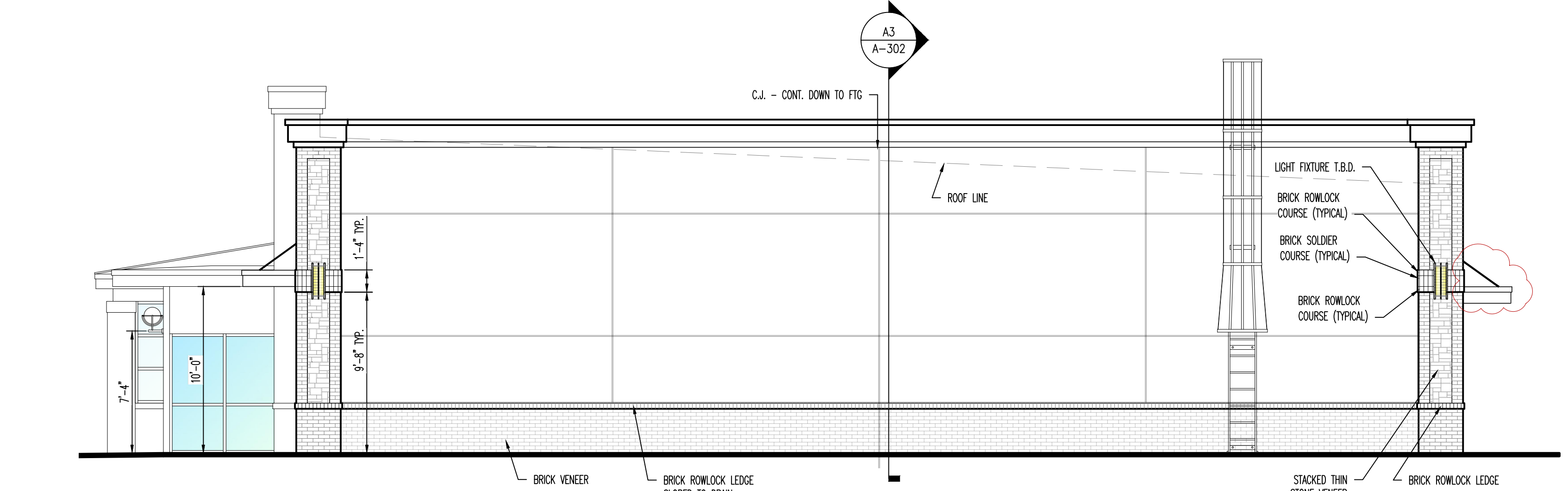
A-202
 SHEET 5 OF 9



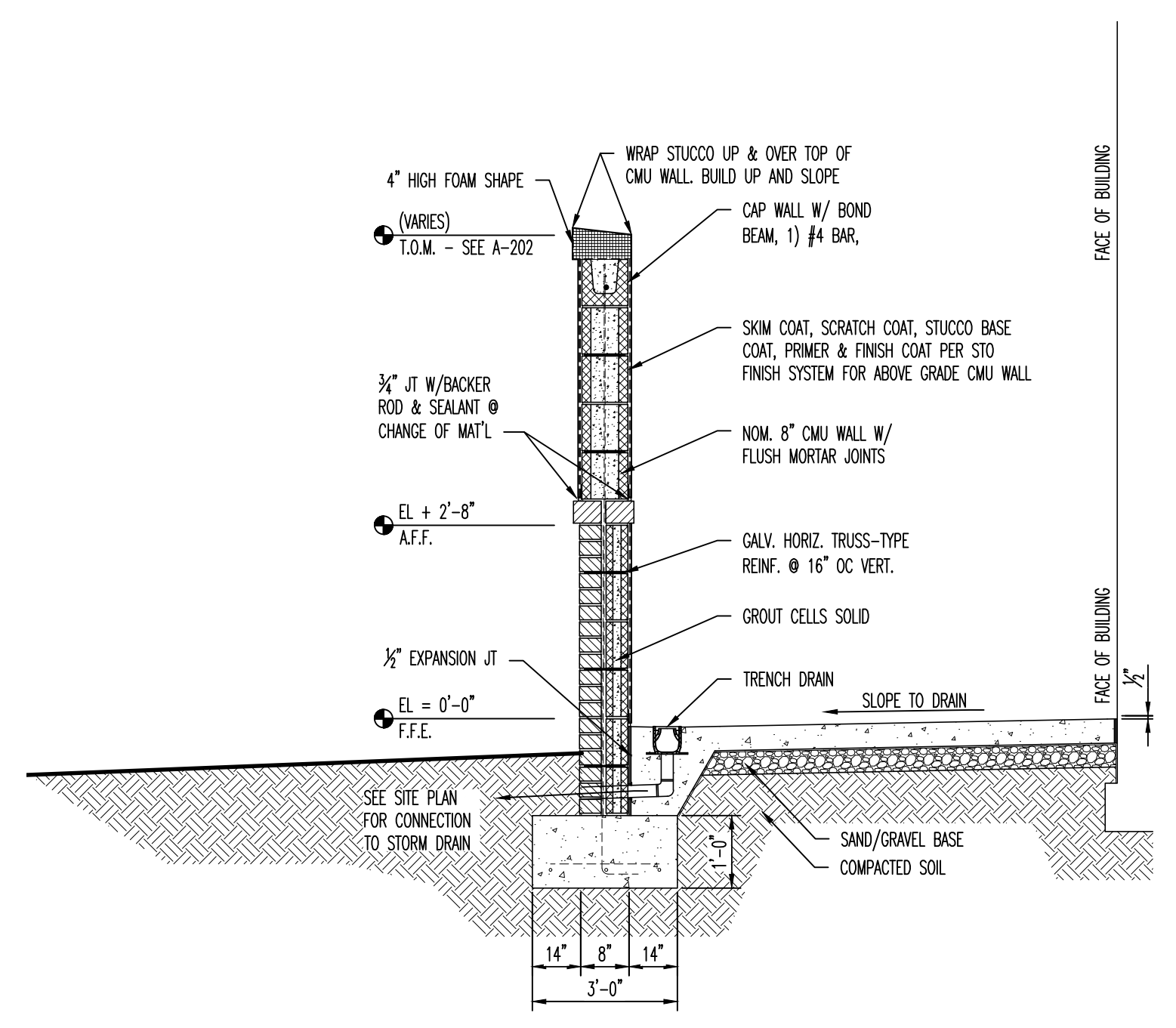
C1 STREET FACING ELEVATION
 SCALE: 3/16" = 1'-0"



B1 REAR ELEVATION (WEST)
 SCALE: 3/16" = 1'-0"



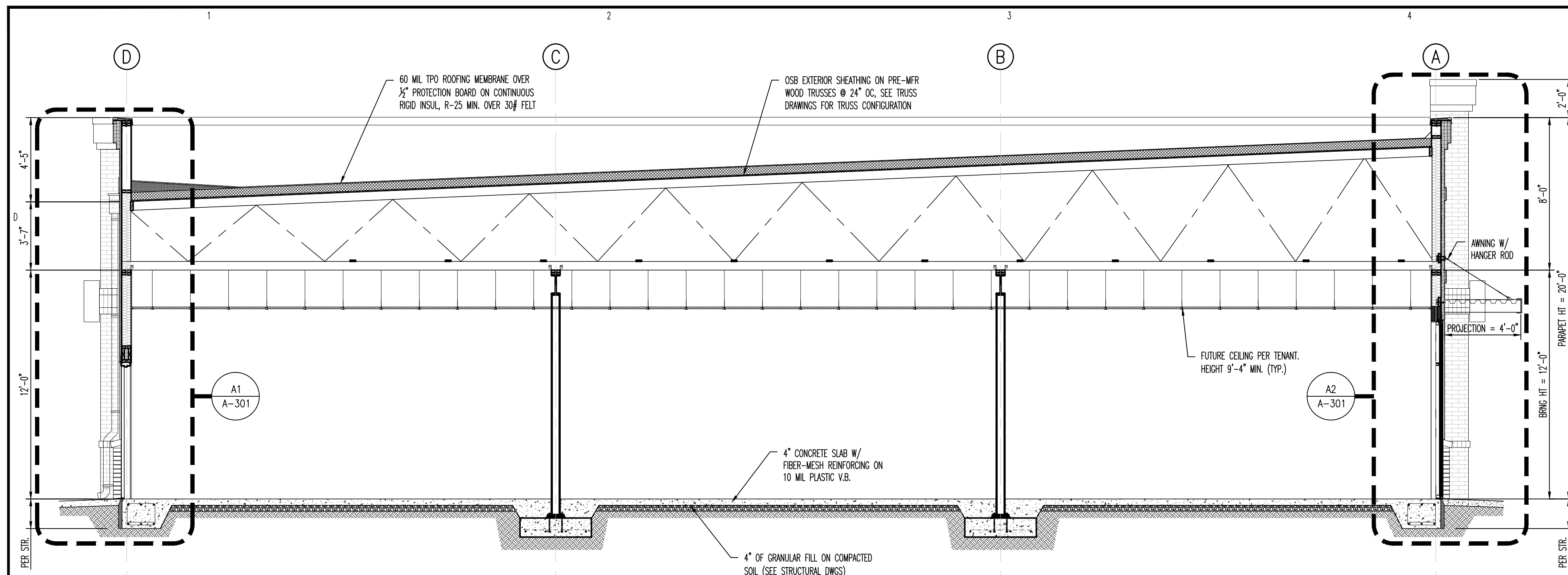
A1 RIGHT ELEVATION (NORTH)
 SCALE: 3/16" = 1'-0"



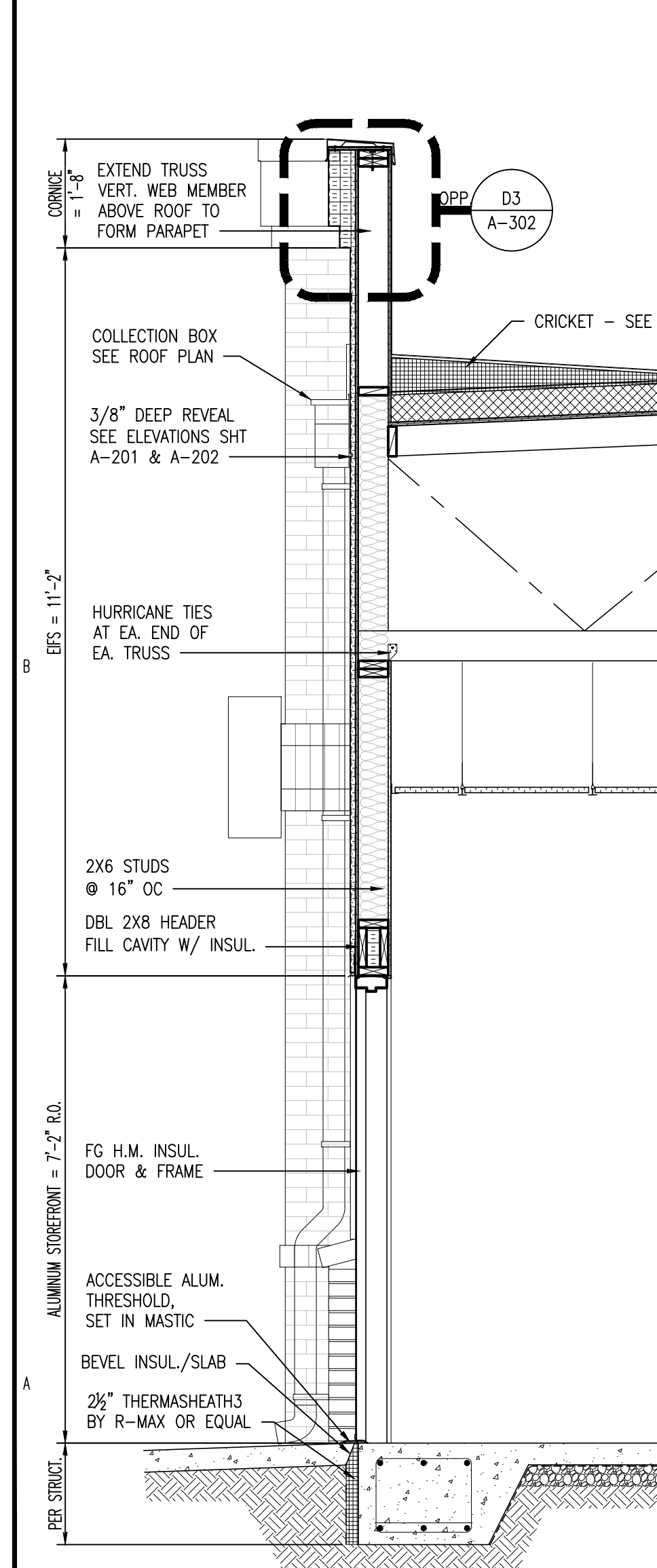
A5 SCREEN WALL SECTION
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PERMITTING STAMP:

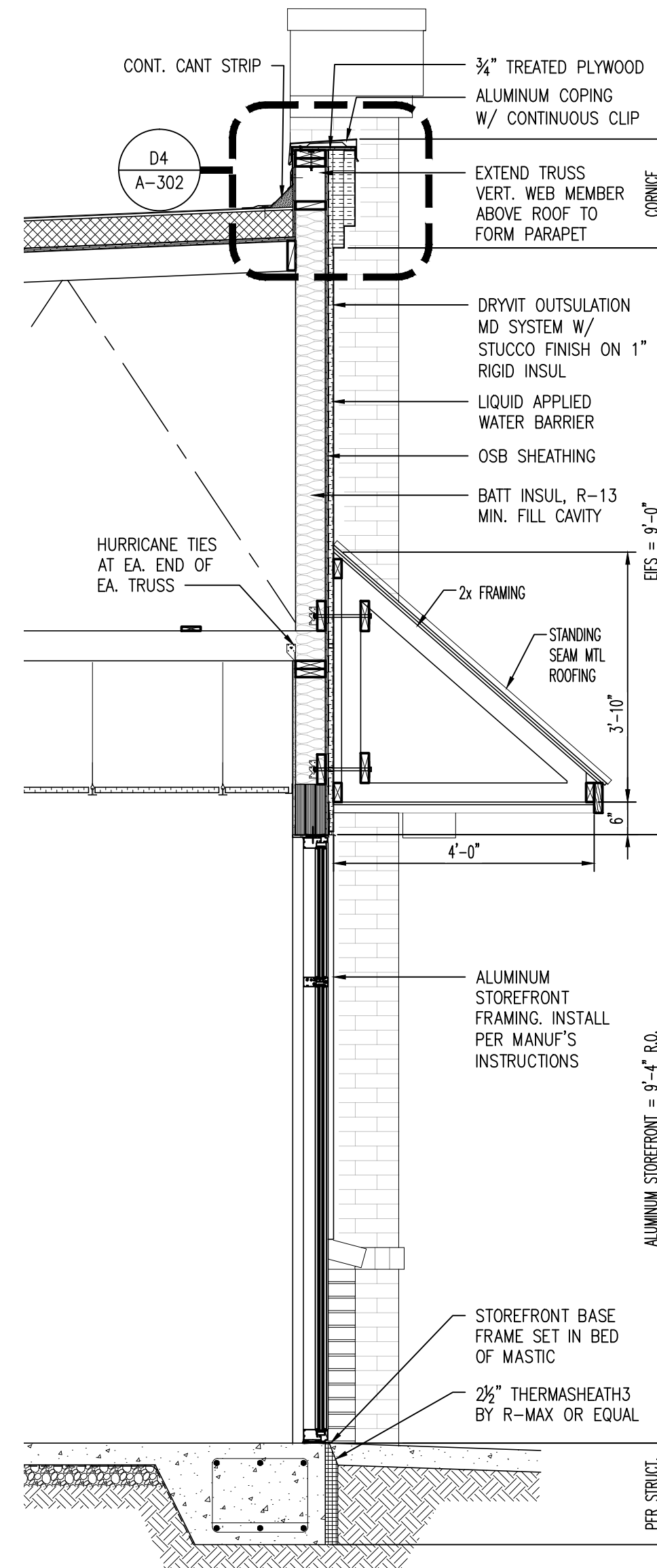
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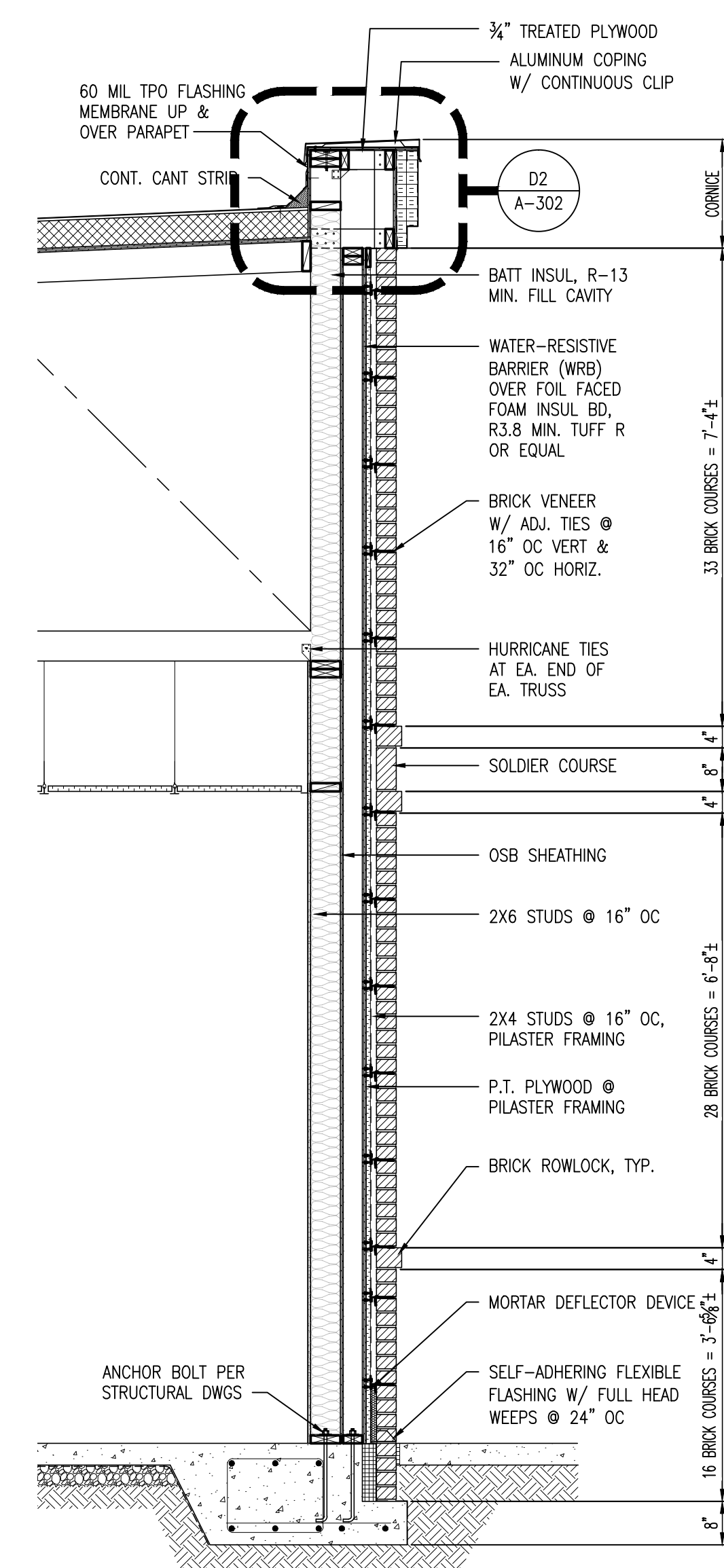
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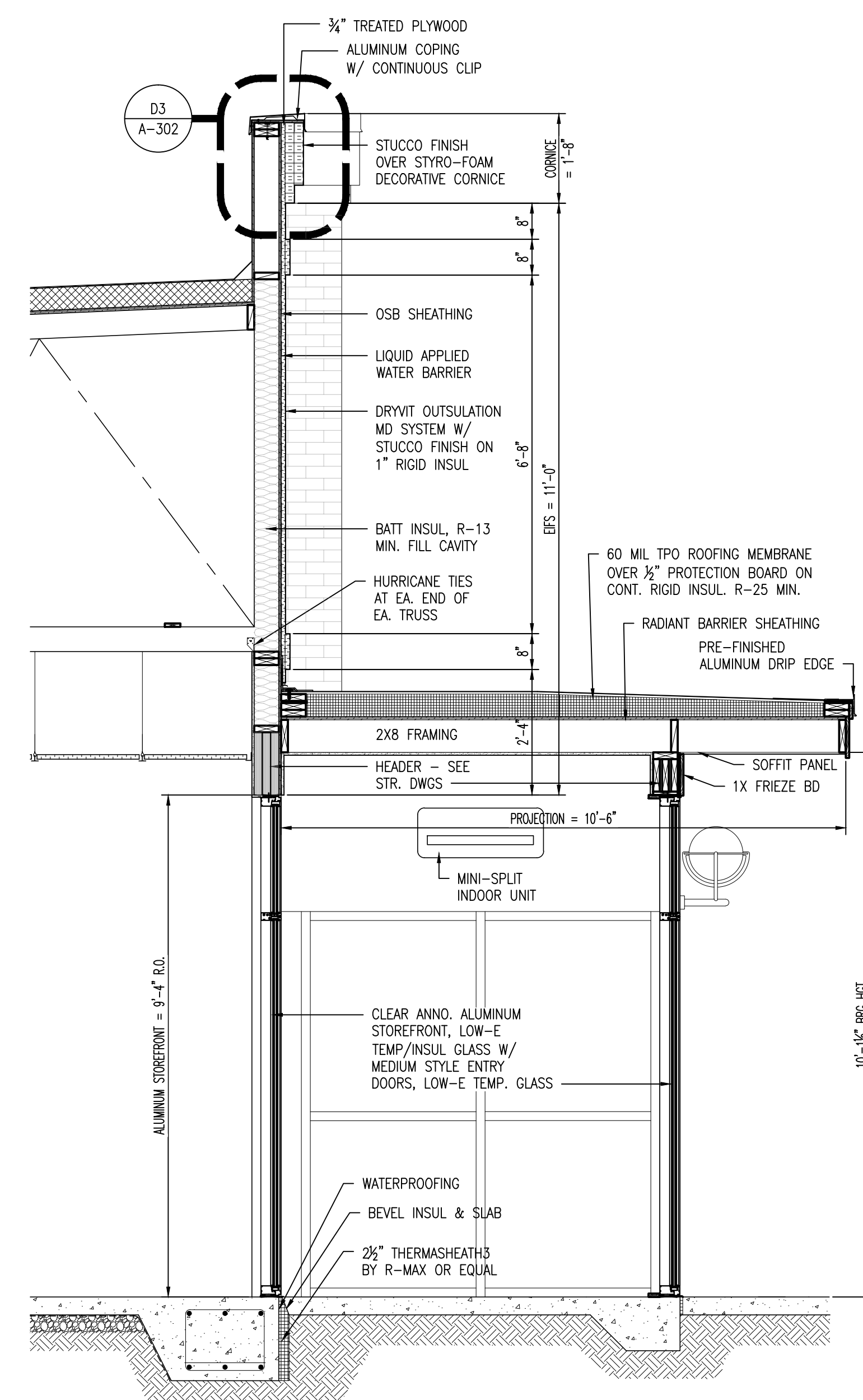
A1 WALL SECTION
SCALE: 1/2" : 1'-0"



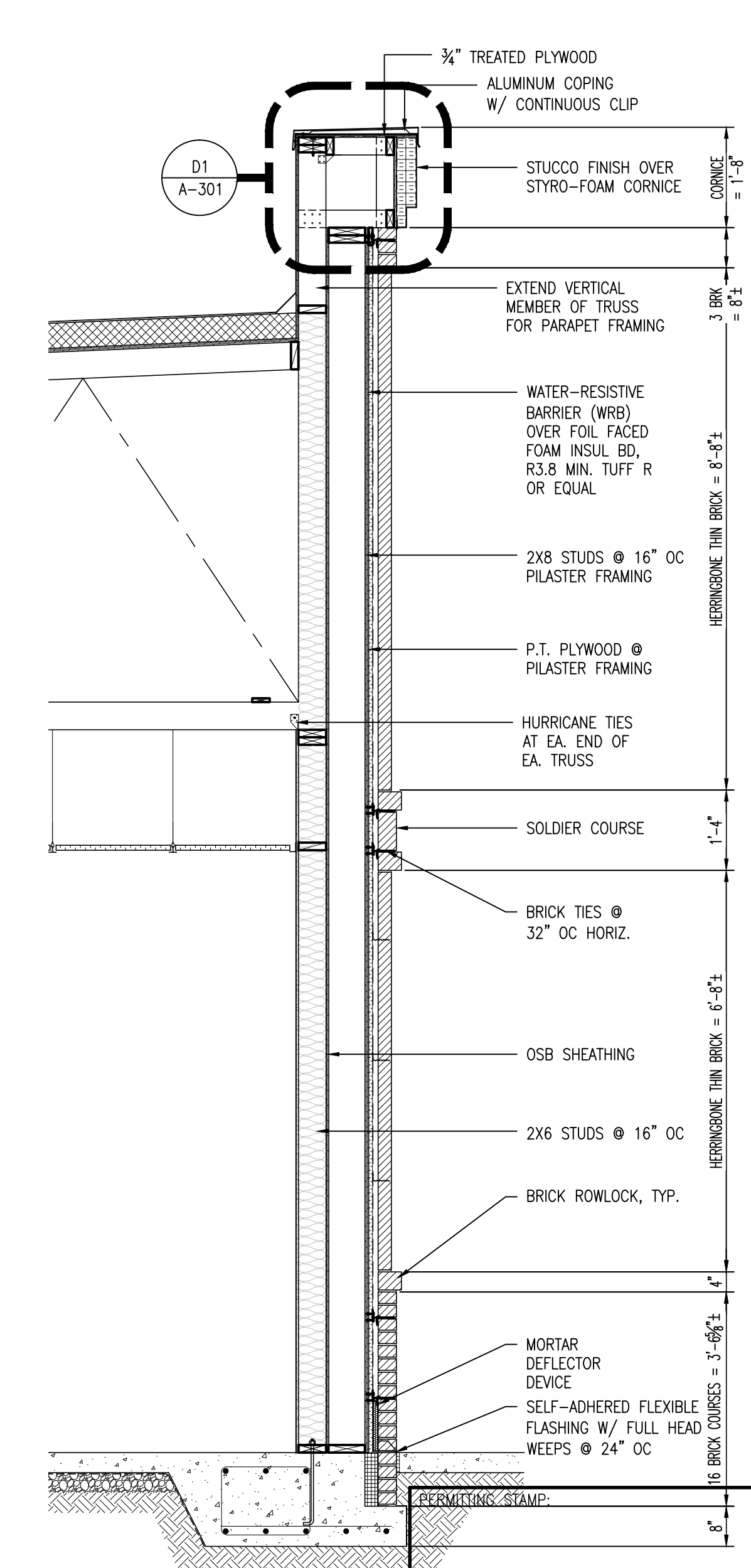
A2 WALL SECTION
SCALE: 1/2" : 1'-0"



A3 WALL SECTION
SCALE: 1/2" : 1'-0"



A4 WALL SECTION
SCALE: 1/2" : 1'-0"



A5 WALL SECTION
SCALE: 1/4" : 1'-0"

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1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



**SHOPPES AT SUMMIT
SHELL BUILDING**
1625 BUFFALO LAKE RD
SPOUT SPRINGS/SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHK

JOB CODE: 19SUMMIT-SHELL
DRAWN BY: A. PRIVETTE
CHECKED BY: A. PRIVETTE
COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
BUILDING & WALL SECTIONS

A-301
SHEET 6 OF 9

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ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com



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 DESIGNBUILD

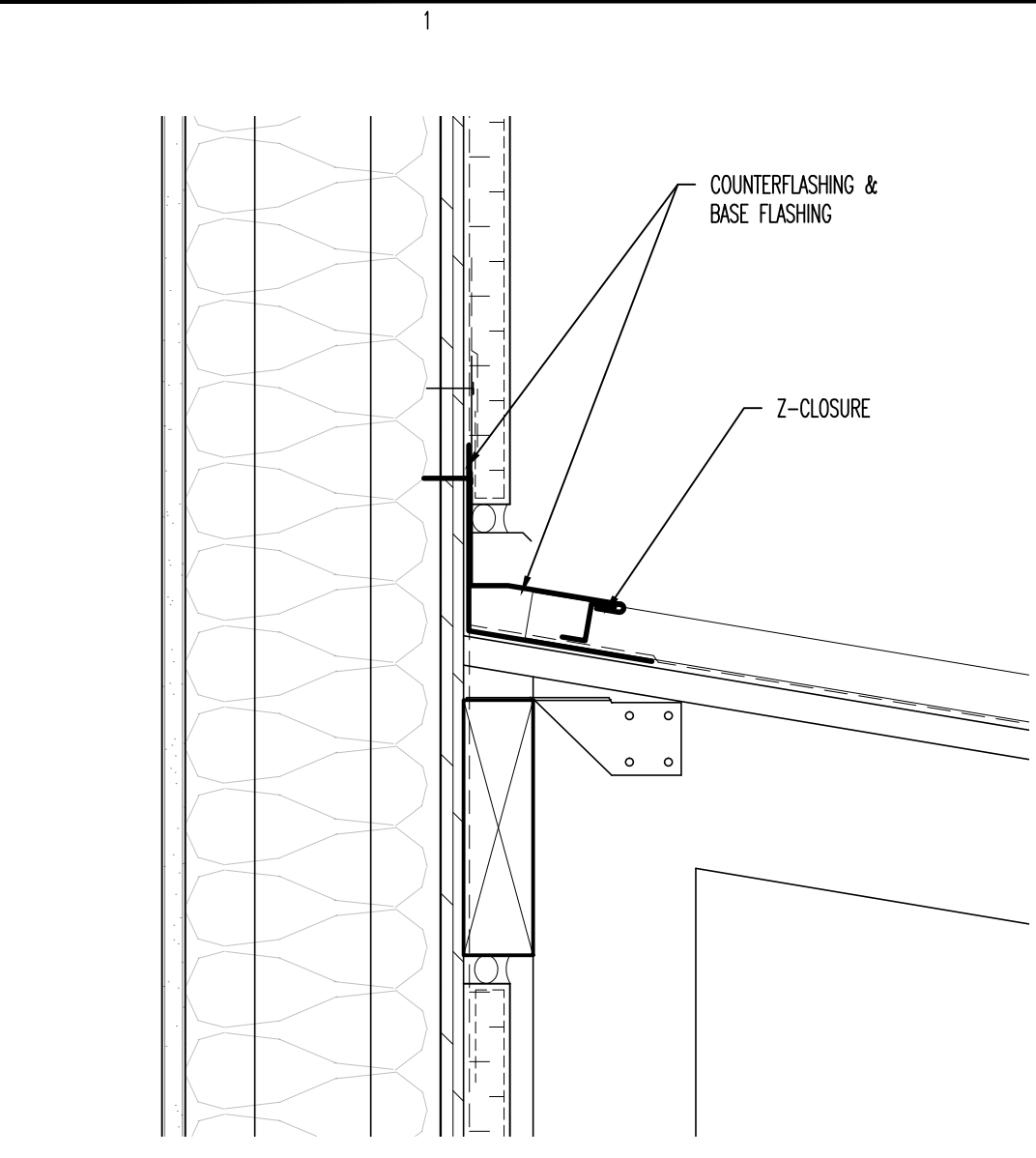
SHOPPES AT SUMMIT
 SHELL BUILDING
 1625 BUFFALO LAKE RD
 SPOUT SPRINGS/SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHK

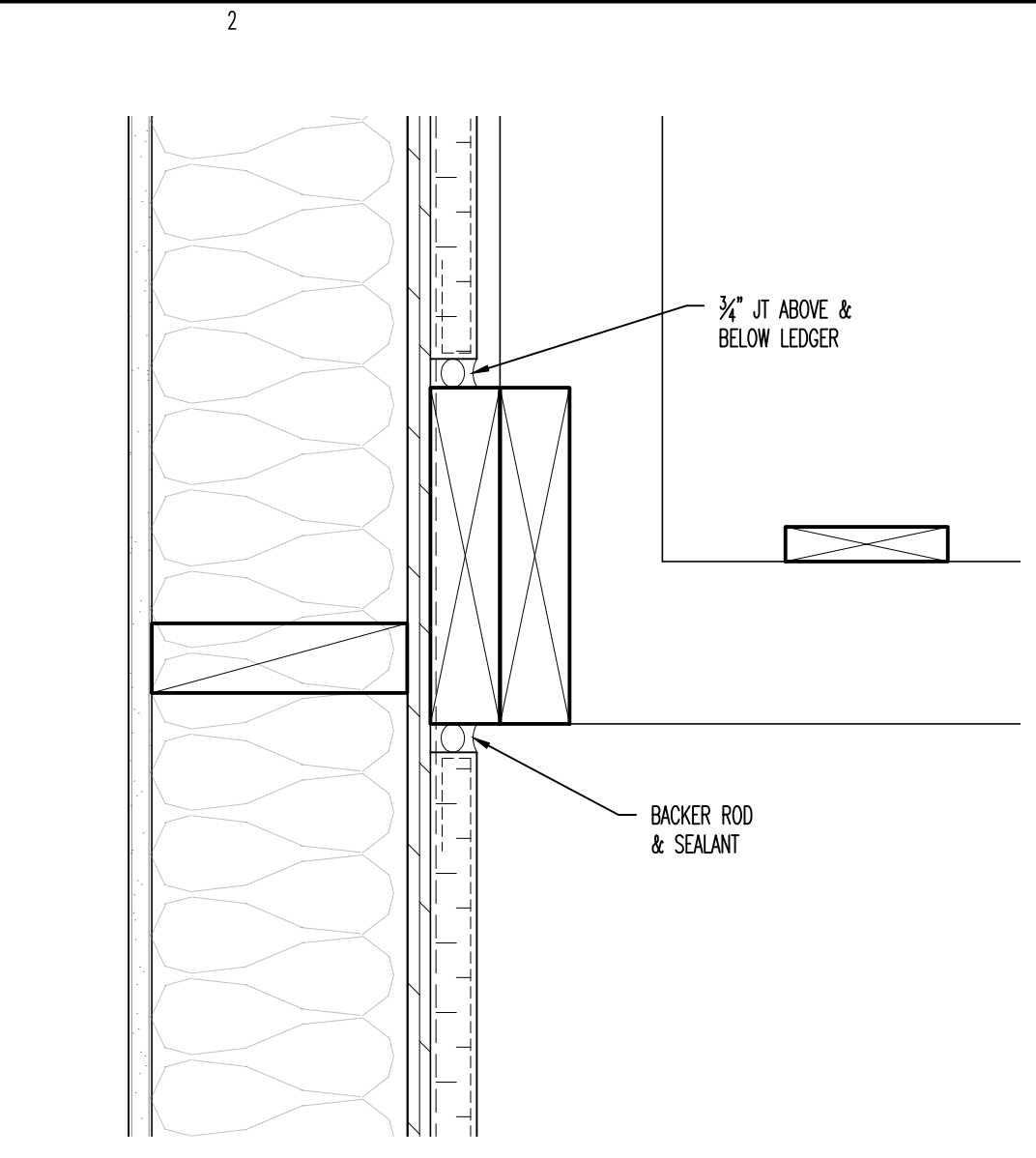
JOB CODE: 19SUMMIT-SHELL
 DRAWN BY: L. THAYER
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SHEET TITLE:
**PATON SECTIONS
 AND DETAILS**

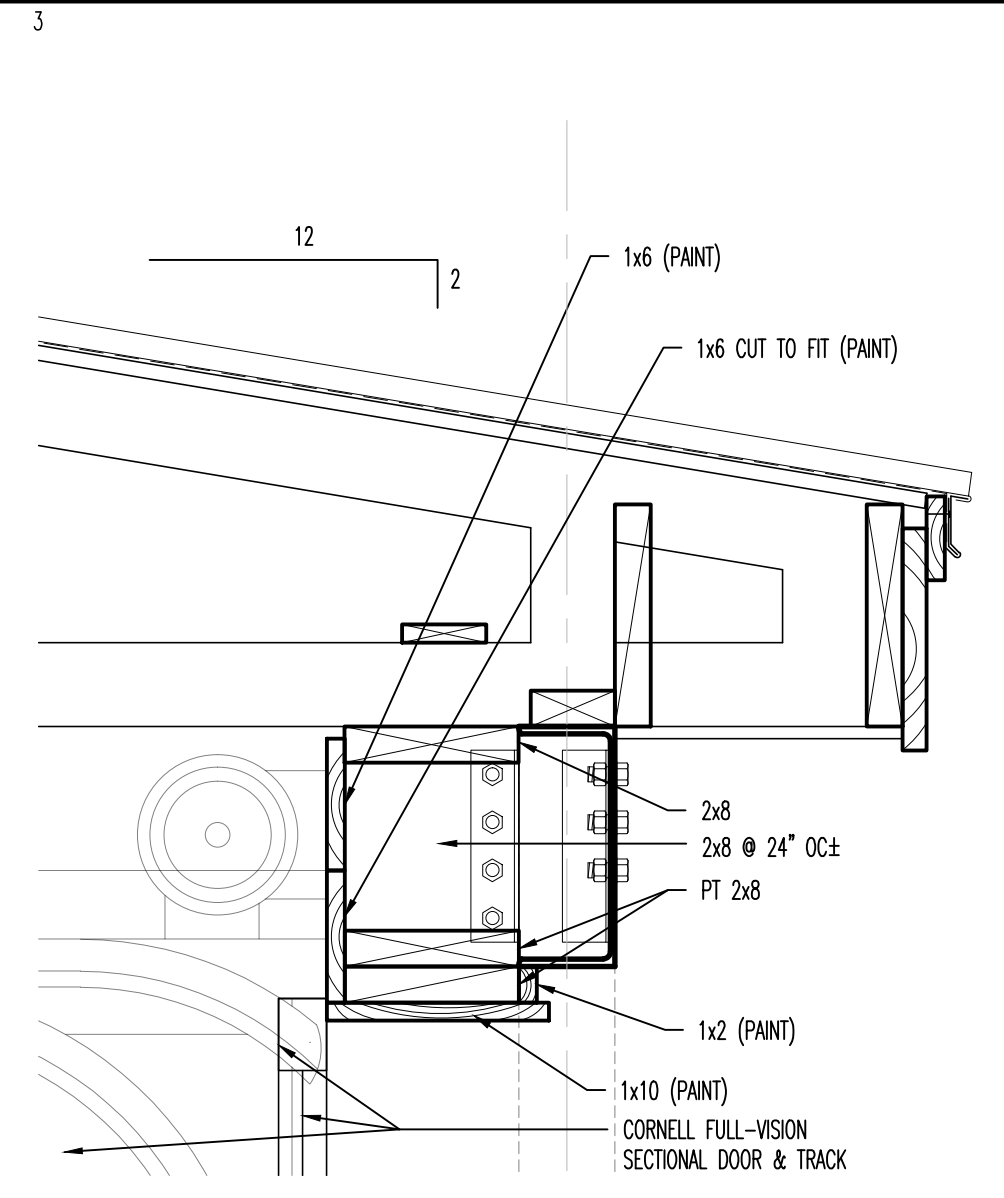
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 SHEET 8 OF 9



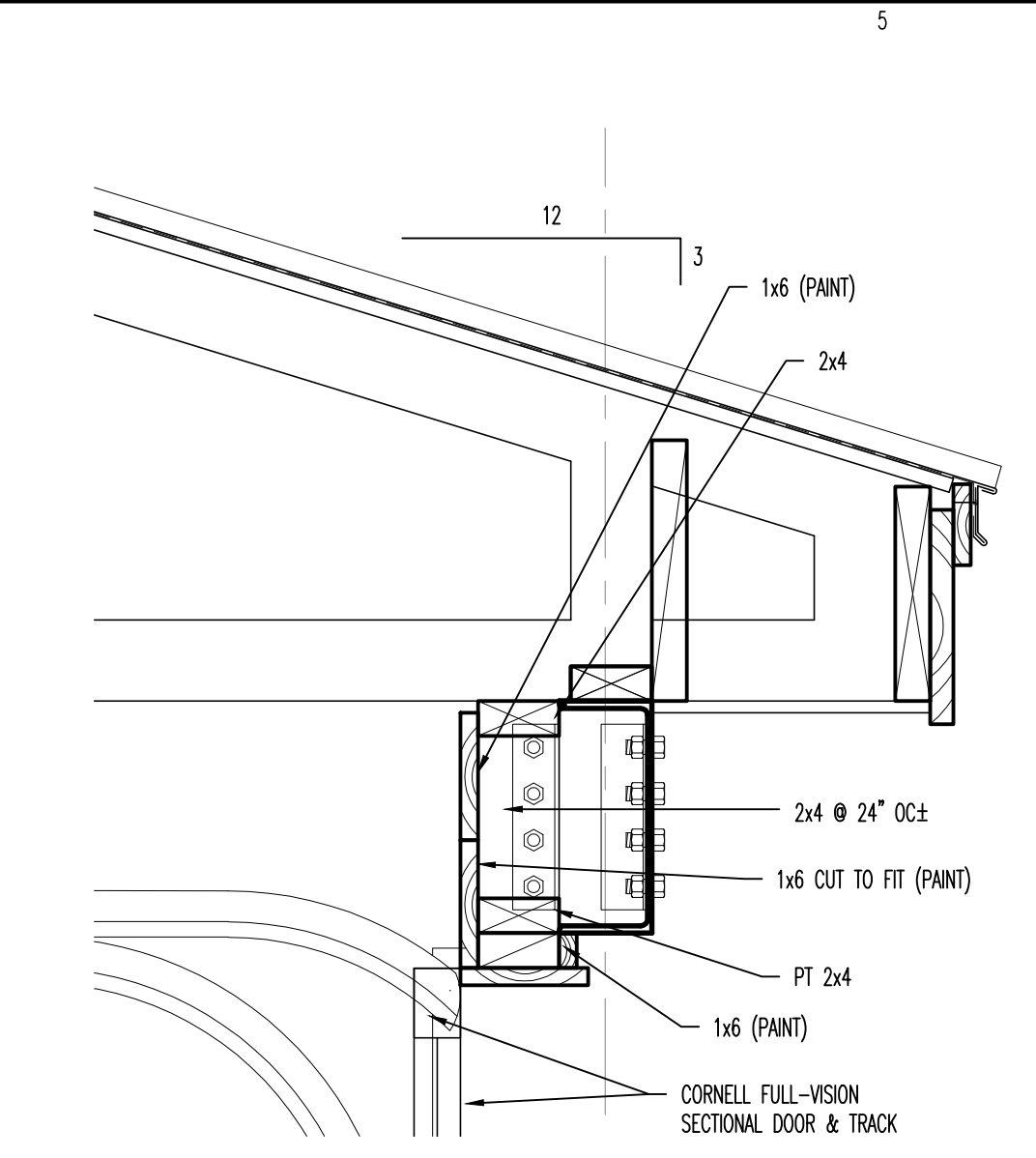
D1 FLASHING @ WALL DTL
 SCALE: 1-1/2" : 1'-0"



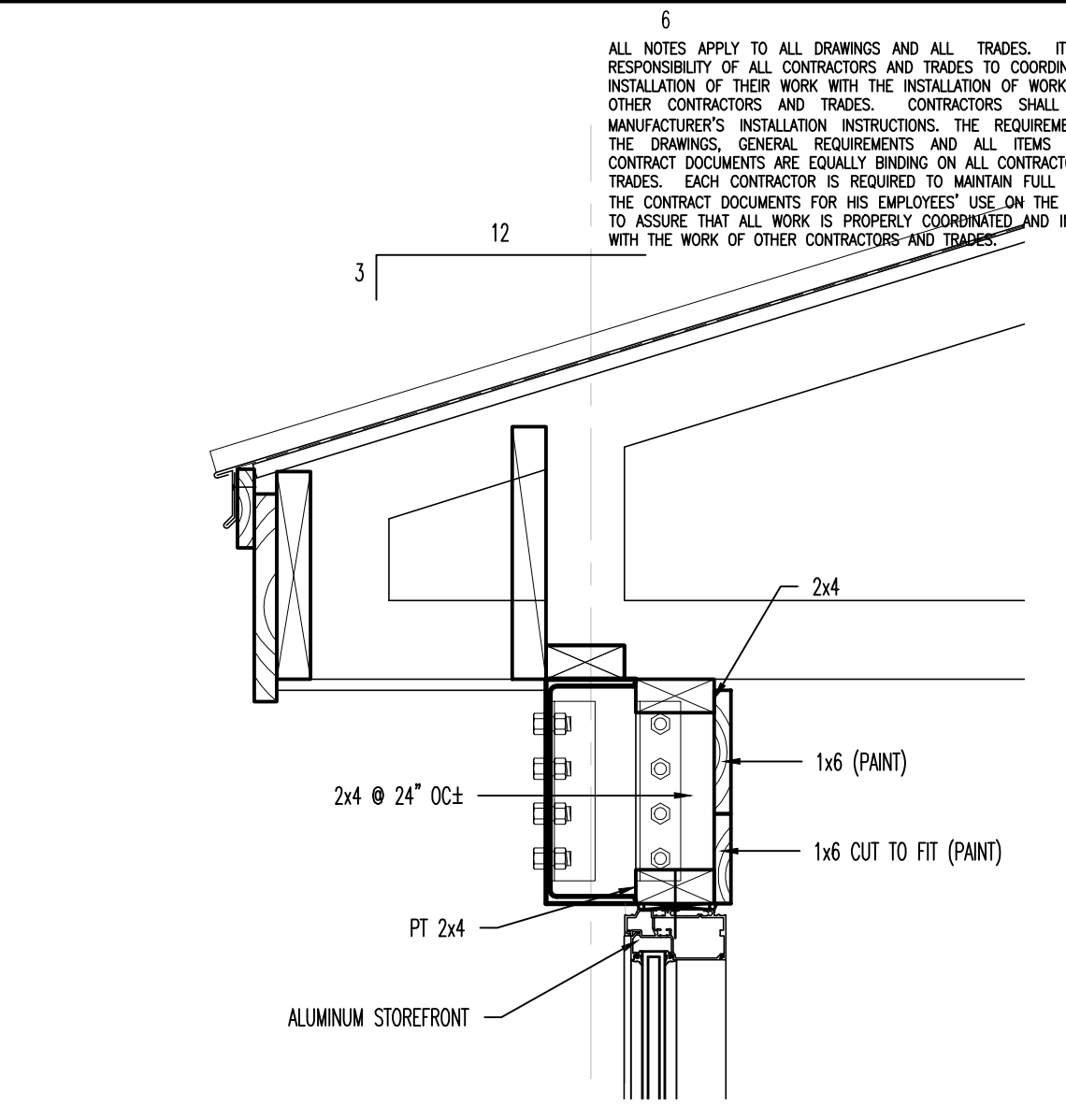
D2 EIFS @ LEDGER DTL
 SCALE: 1-1/2" : 1'-0"



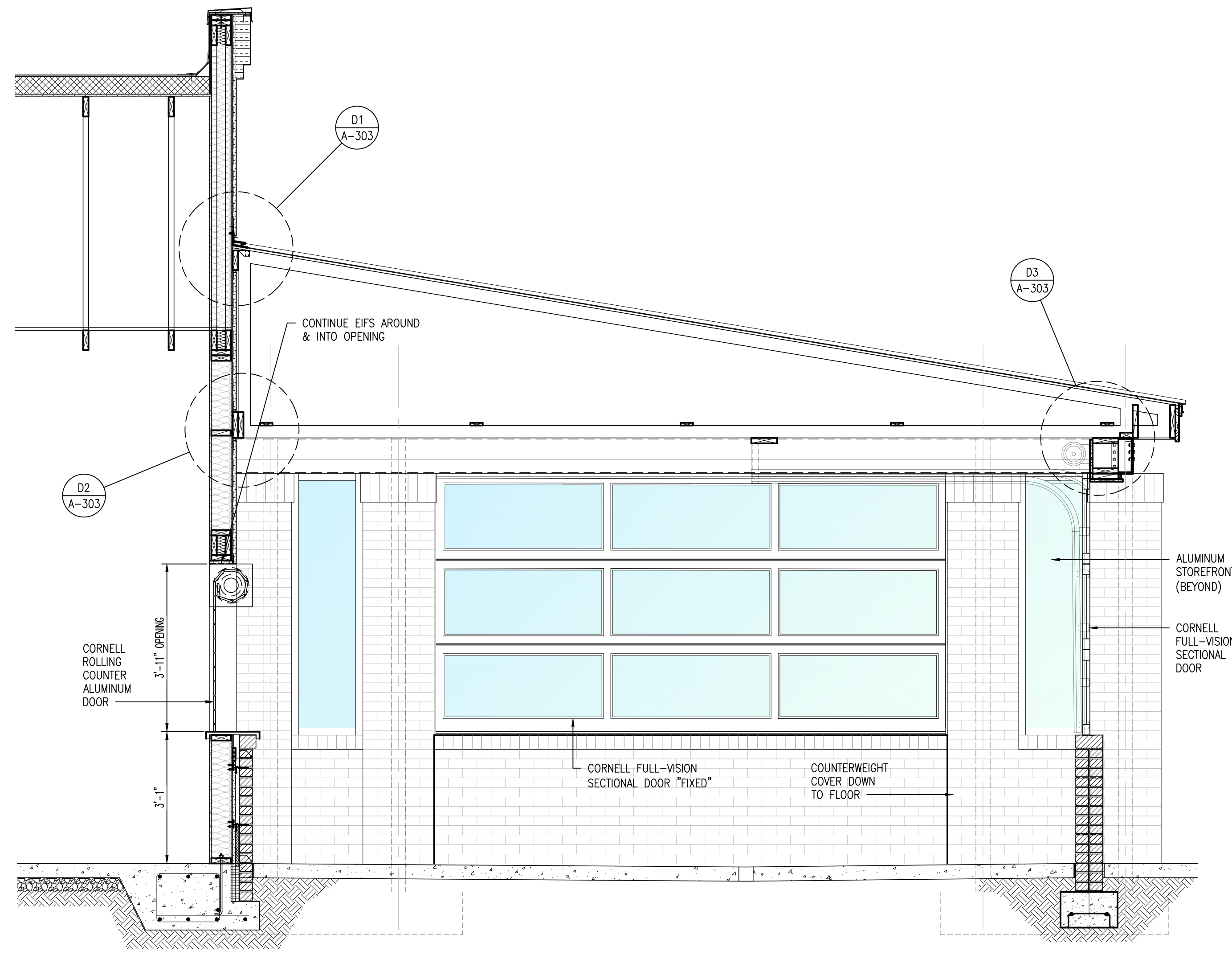
D3 OVERHEAD HEAD DTL
 SCALE: 1-1/2" : 1'-0"



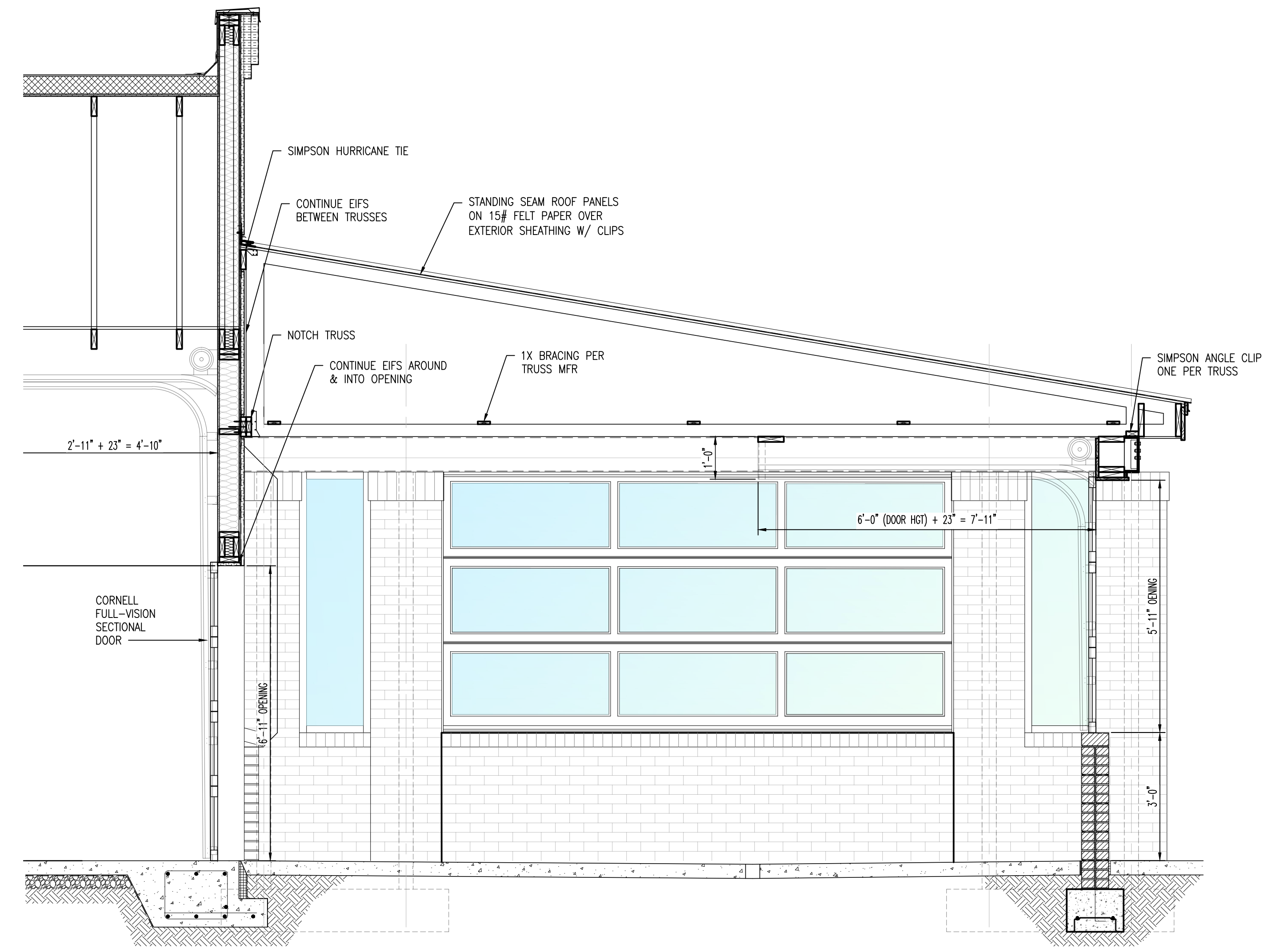
D5 OVERHEAD HEAD DTL
 SCALE: 1-1/2" : 1'-0"



D6 STOREFRONT HEAD DTL
 SCALE: 1-1/2" : 1'-0"



A1 PATIO SECTION
 SCALE: 1/2" : 1'-0"



A4 PATIO SECTION
 SCALE: 1/2" : 1'-0"

PERMITTING STAMP:

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MARK	DOOR										FIRE RATING LABEL	H.W. SET NO.	HAND	NOTES			
	SIZE			MATERIAL			LOUVER		FRAME								
	W	HT	THK	DOOR	CORE	FACE	EL	GLZ	W	HT					MATL	EL	GLZ
001	(2)3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D1	TEMP	N/A	N/A	ALUM.	F1	TEMP	N/A	1A	PAIR	FRONT ENTRY
002	(2)3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D1	TEMP	N/A	N/A	ALUM.	F1	TEMP	N/A	1B	PAIR	FRONT ENTRY
003	3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D1	TEMP	N/A	N/A	ALUM.	F3	N/A	N/A	2	R	PATIO DOOR
004	6'-0"	3'-0"	-	ALUM.	-	ANNO.	D4	N/A	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
005	8'-0"	7'-0"	-	ALUM.	-	ANNO.	D5	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
006	12'-0"	6'-0"	-	ALUM.	-	ANNO.	D6	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
007	10'-0"	6'-0"	-	ALUM.	-	ANNO.	D7	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
008	10'-0"	6'-0"	-	ALUM.	-	ANNO.	D7	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
009	10'-0"	6'-0"	-	ALUM.	-	ANNO.	D7	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
010	10'-0"	6'-0"	-	ALUM.	-	ANNO.	D7	INSUL	N/A	N/A	ALUM.	-	N/A	N/A	MFR	OH	PATIO DOOR
011	3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D1	TEMP	N/A	N/A	ALUM.	F3	N/A	N/A	2	LR	PATIO DOOR
012	3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D1	TEMP	N/A	N/A	ALUM.	F4	TEMP	N/A	2	LR	PATIO DOOR
013	3'-0"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D2	TEMP	N/A	N/A	ALUM.	F3	N/A	N/A	5	RR	SIDE EXIT
014	4'-0"	7'-0"	1-3/4"	H.M.	INSUL.	STL	D3	N/A	N/A	N/A	H.M.	F3	N/A	N/A	3	RR	REAR EXIT
015	9'-8"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D9	TEMP	N/A	N/A	ALUM.	F2	TEMP	N/A	4	R	FRONT ENTRY
016	9'-8"	7'-0"	1-3/4"	ALUM.	-	ANNO.	D9	TEMP	N/A	N/A	ALUM.	F2	TEMP	N/A	4	R	FRONT ENTRY
017	3'-0"	7'-0"	1-3/4"	H.M.	INSUL.	STL	D3	N/A	N/A	N/A	H.M.	F3	N/A	N/A	3	RR	REAR EXIT

HARDWARE SETS - SATIN CHROMIUM PLATED

S E T #1A: (PAIR - STOREFRONT - 001)
 PULL HIAWATHA (2)#G121 PULL, POLISHED CHROME-US26
 PANIC DEVICE STOREFRONT MFR. (2) CONCEALED VERTICAL ROD EXIT DEVICE, BRUSHED CHROME-US26D
 CYLINDER STOREFRONT MFR. SINGLE CYLINDER ON RIGHT LEAF
 HINGES STOREFRONT MFR. (2) OFFSET PIVOT
 CLOSER STOREFRONT MFR. (2) SURFACE MOUNTED OVERHEAD
 EXT. DOOR THRESHOLD STOREFRONT MFR. (2) OFFSET PIVOT
 WEATHER STRIPPING STOREFRONT MFR. JAMB & HEAD, (2) ASTRAGALS W/REMOVABLE MULLION

S E T #1B: (PAIR - STOREFRONT - 002)
 PULL HIAWATHA (2)#G121 PULL, POLISHED CHROME-US26
 CYLINDER STOREFRONT MFR. SINGLE CYLINDER ON RIGHT LEAF
 HINGES STOREFRONT MFR. (2) OFFSET PIVOT
 CLOSER STOREFRONT MFR. (2) SURFACE MOUNTED OVERHEAD

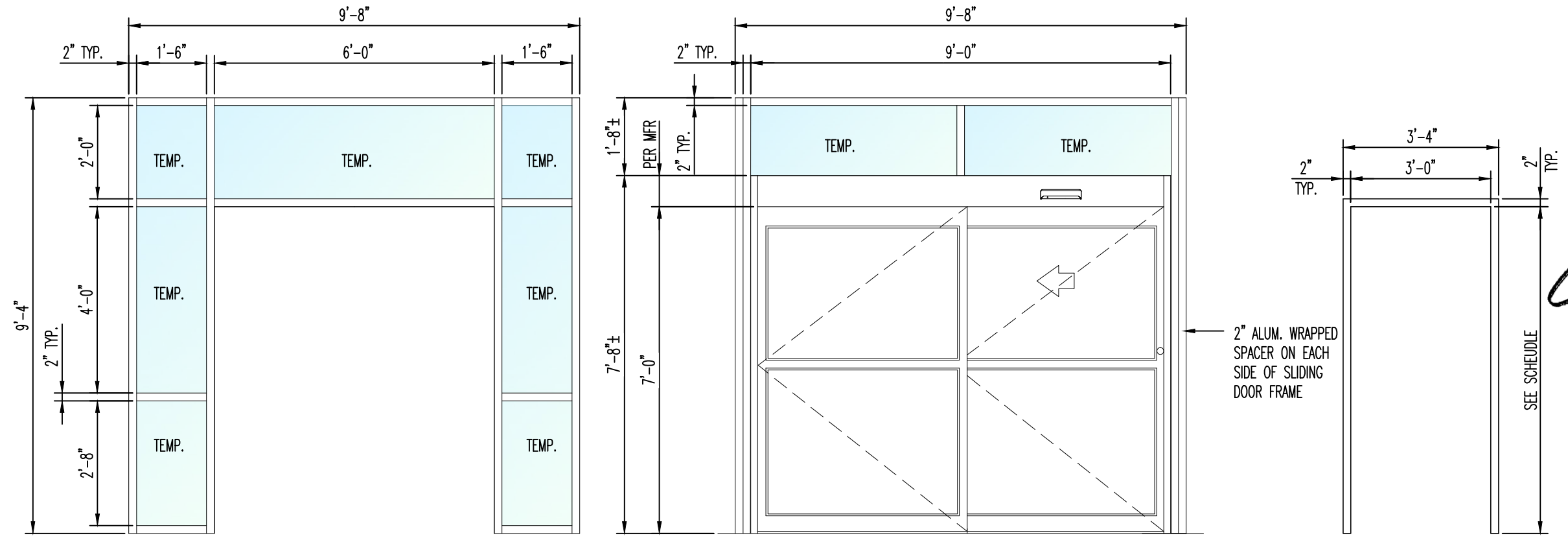
S E T # 2: (SGL - STOREFRONT - 003, 011, 012)
 PUSH/PULL HIAWATHA (2)#G121 PULL, #HG114 PUSH, POLISHED CHROME-US26
 CYLINDER STOREFRONT MFR. SINGLE CYLINDER KEYS
 LOCK INDICATOR STOREFRONT MFR. INDICATES LOCKED OR OPEN CONDITION
 ALSO PROVIDE DECAL READING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".

HINGES STOREFRONT MFR. OFFSET PIVOT
 CLOSER STOREFRONT MFR. SURFACE MOUNTED OVERHEAD
 EXT. DOOR THRESHOLD STOREFRONT MFR. OFFSET PIVOT
 WEATHER STRIPPING STOREFRONT MFR. JAMB & HEAD

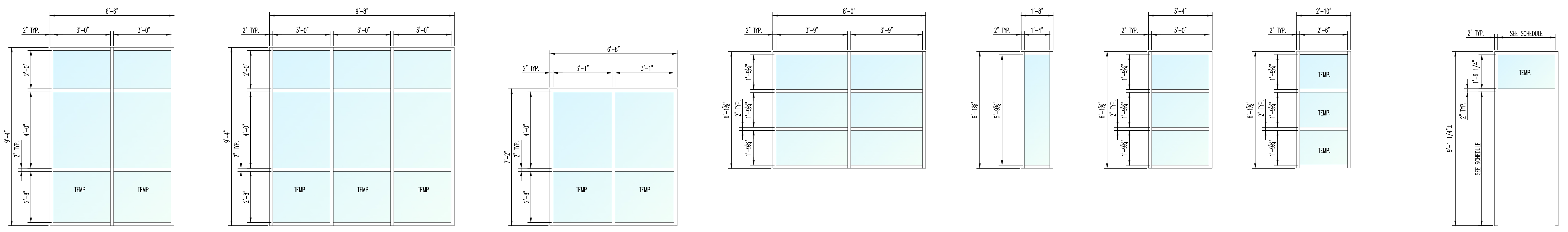
S E T 3: (ENTRANCE/EXIT - 014, 017)
 LOCKSET SCHLAGE AL50PD-NP-626
 HINGES MCKINNEY (3) TA-2714 4.5 X 4.5 S.S. BALL BEARING
 CLOSER NORTON 8301-BF-US26D
 EXT. DOOR THRESHOLD NATIONAL GUARD #896 HCP ALUMINUM
 WEATHER STRIPPING NATIONAL GUARD #172 SILICONE PERMETER SEAL; 36E VINYL SWEEP
 MAGNETIC LOCK: (017) SECURITRON M380BD FAIL OPEN EXIT CONDITION
 BADGE READER: (017) PROXPRO CARD READER & INTERIOR SENSOR

S E T 4: (AUTO-SLIDING - 015, 016)
 MORTISE CYLINDER SCHLAGE 20-062-626
 ALL REMAINING HARDWARE TO BE PROVIDED BY DOOR MANUFACTURER TO INCLUDE SINGLE SLIDE RIGHT HAND SURFACE APPLICATION, 42" MINIMUM CLEAR DOOR OPENING, AND EMERGENCY BREAKAWAY HARDWARE.

S E T # 5: (SGL - STOREFRONT - 013)
 PULL HIAWATHA #G121 PULL, POLISHED CHROME-US26
 PANIC DEVICE STOREFRONT MFR. RIM EXIT DEVICE, BRUSHED CHROME-US26D
 CYLINDER STOREFRONT MFR. SINGLE CYLINDER KEYS
 HINGES STOREFRONT MFR. OFFSET PIVOT
 CLOSER STOREFRONT MFR. SURFACE MOUNTED OVERHEAD
 EXT. DOOR THRESHOLD STOREFRONT MFR. OFFSET PIVOT
 WEATHER STRIPPING STOREFRONT MFR. JAMB & HEAD

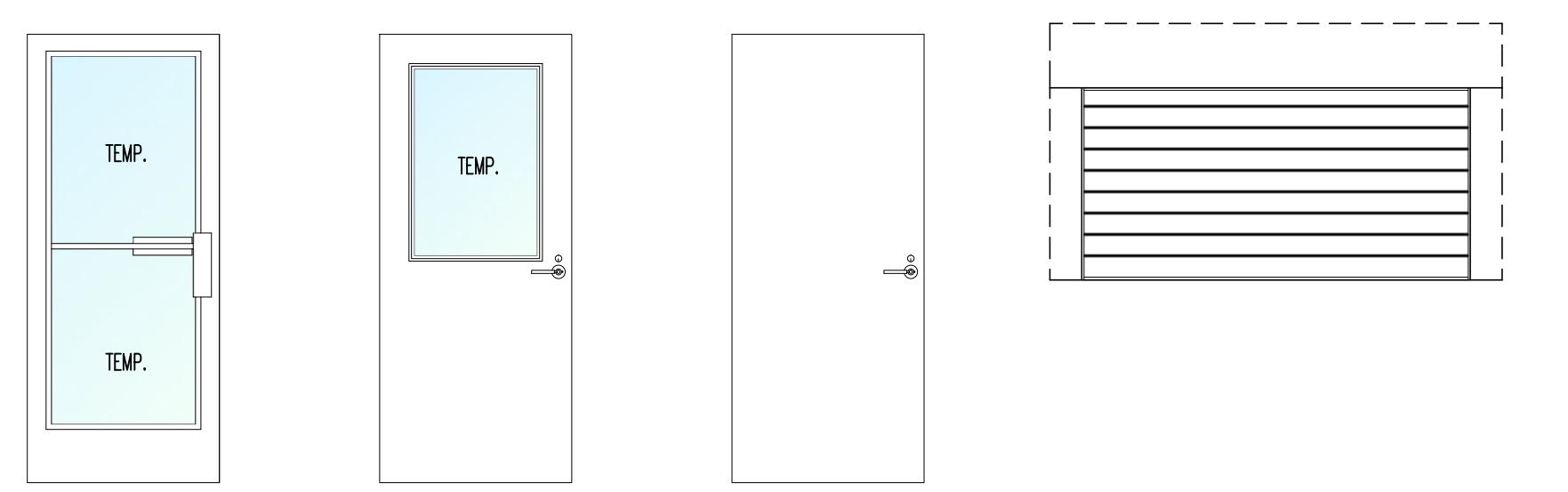


(F1) STOREFRONT
(F2) AUTOMATIC SLIDING DOOR FRAME & TRANSOM
(F3) KNOCK-DOWN
(C5) FRAME TYPES
 SCALE: 3/8" : 1'-0"



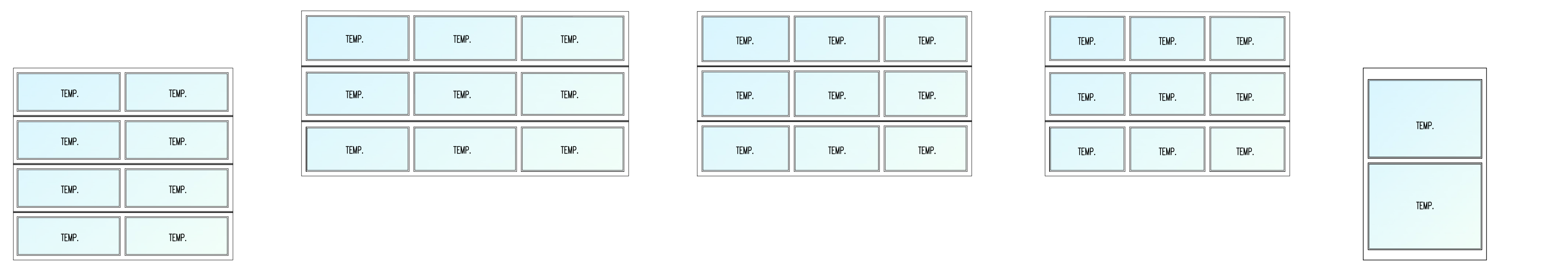
(A) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(B) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(C) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(D) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(E) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(F) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS
(G) CLEAR ANODIZED FRAME W/ INSULATED LOW-E GLASS

(B1) WINDOW TYPES
 SCALE: 3/8" : 1'-0"



(D1) FULL GLASS MEDIUM STYLE
(D2) HALF GLASS
(D3) FLUSH
(D4) ROLLING COUNTER

(A1) DOOR TYPES
 SCALE: 3/8" : 1'-0"



(D5) FULL-VISION
(D6) FULL-VISION "FIXED"
(D7) FULL-VISION
(D8) FULL-VISION "FIXED"
(D9) AUTO-SLIDING PERMITTING STAMP:

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A Simpler Approach

ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com

Professional seal for Andrew W. Privette, AIA, Registered Architect, License No. 3877, State of North Carolina.

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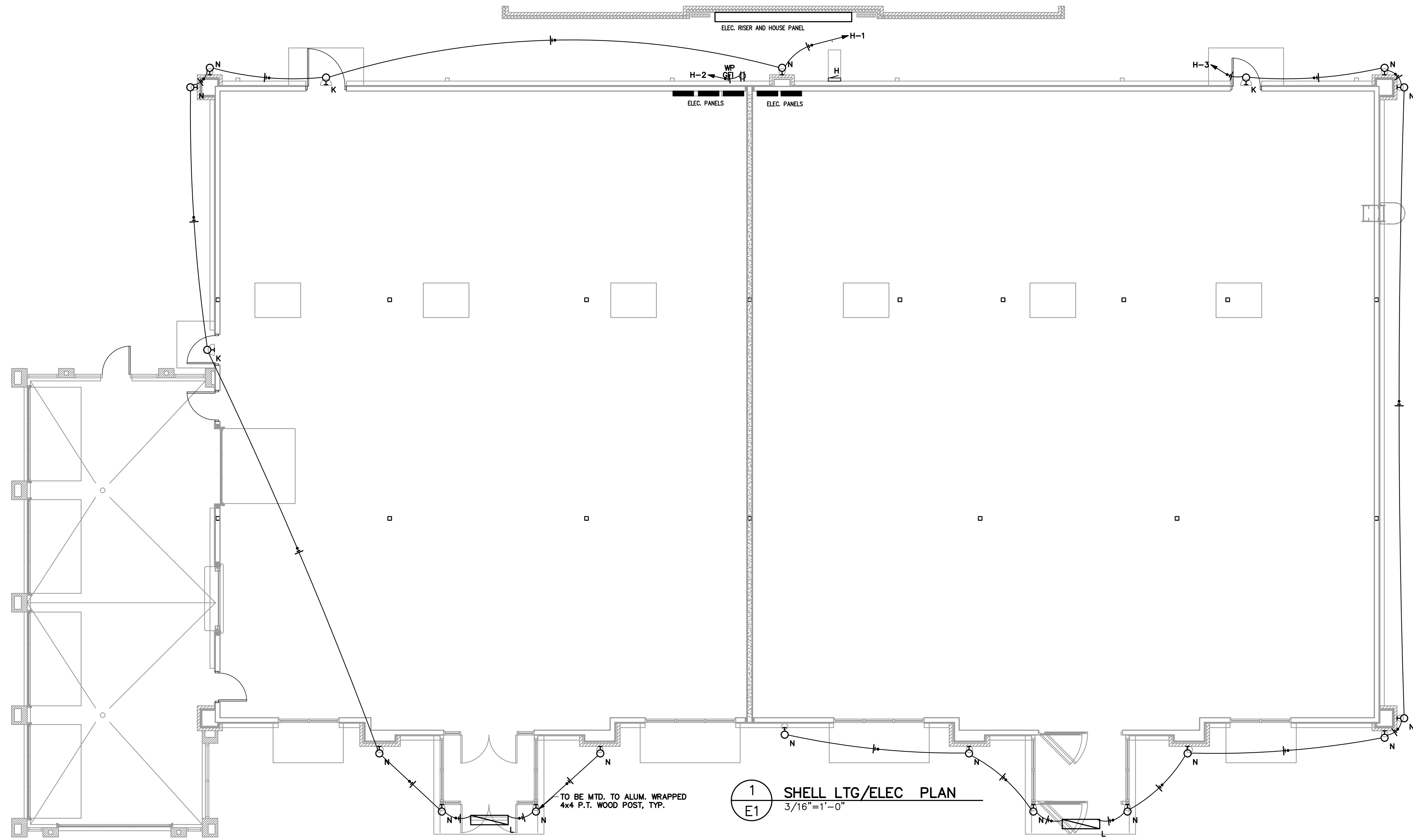
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 CHECKED BY: A. PRIVETTE
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SHEET TITLE:
DRS/FRMS/WINS/H.W.
ELEVATIONS &
SCHEDULES
 UPDATED: 06-18-20

A-401
 SHEET 9 OF 9

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1 SHELL LTG/ELEC PLAN
E1 3/16"=1'-0"

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1	NOTE 2	TOTAL LUMENS
K	⊙	(1)	HALF MOON SCONCE OUTDOOR BRONZE	ELECTRONIC	WALL	MAXIM ZENITH LED E26 OR EQ.	13	120V 1P 2W			1100
L	▭	(1) LED	RECESSED LED CANOPY LUMINAIRE	ELECTRONIC	RECESSED	METALUX 14FP4240C OR EQ.	38.3	120V 1P 2W			4226
N	⊙	(2) 15W LED	UP/DOWN CYLINDER	ELECTRONIC	WALL	PROGRESS P5642-31/30K OR EQ.	30	120V 1P 2W			3000



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



SHOPEX AT SUMMIT
SHELL BUILDING
1625 BUFFALO LAKE RD
SANFORD, NORTH CAROLINA

MARK	DATE	DESCRIPTION	CHK

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SHEET TITLE:
ELECTRICAL PLAN

E-1
SHEET OF

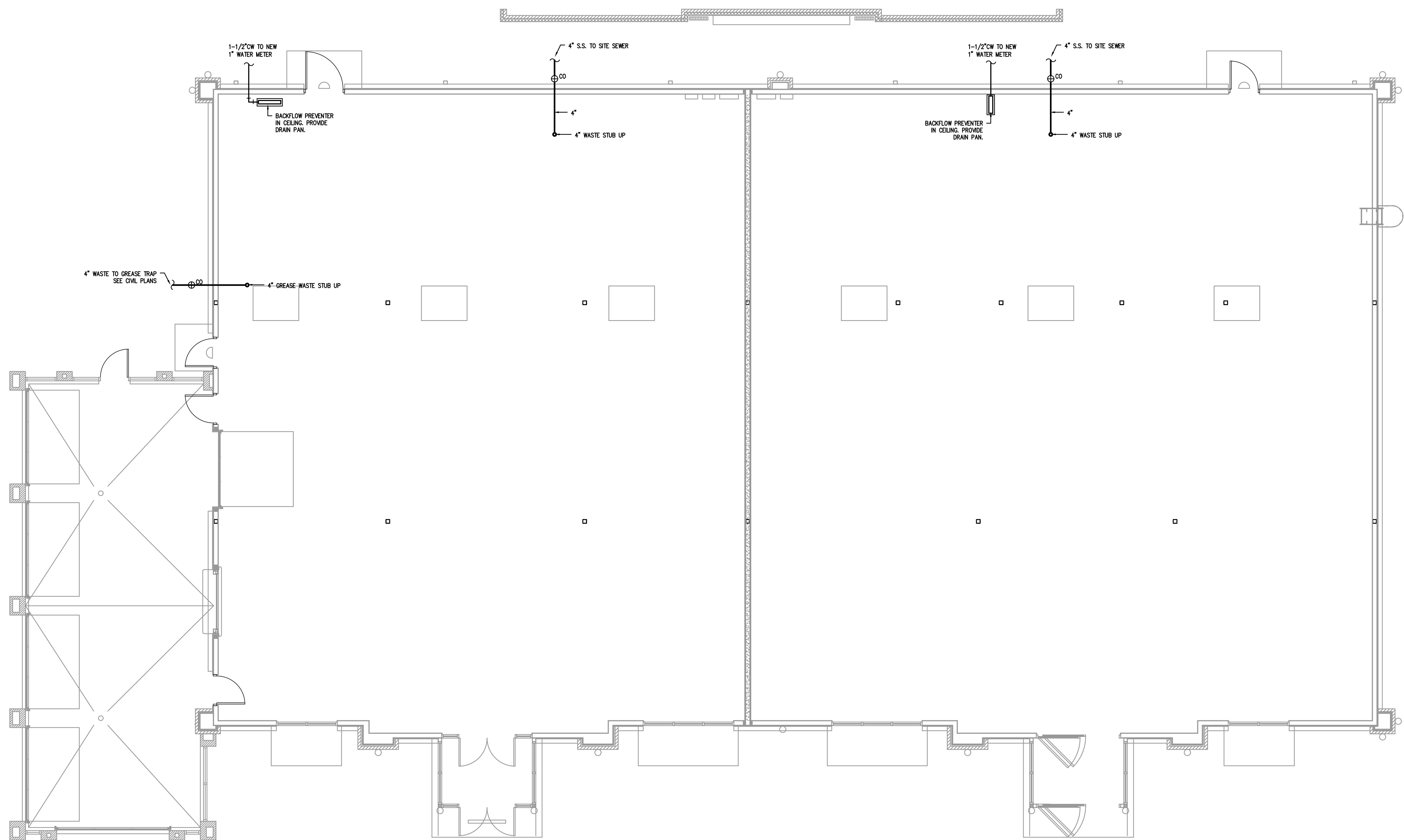
Jun 30, 2020

PERMITTING STAMP:

Coastal Plains Engineering, P.A.
295 LOCKLEAR RD
P.O. Box 1117
Pembroke, NC 28372
Voice: 910-521-7213
Fax: 910-521-7213
www.coastalplainseng.com
License No: C-2059



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1
P1
PLUMBING PLAN
3/16"=1'-0"

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. CPVC/PEX MAY BE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI

GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.

3
P1
PLUMBING NOTES
N.T.S.

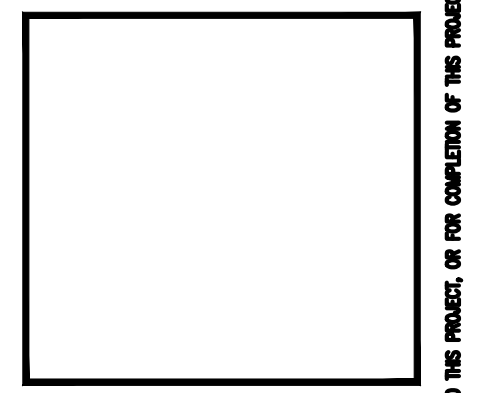
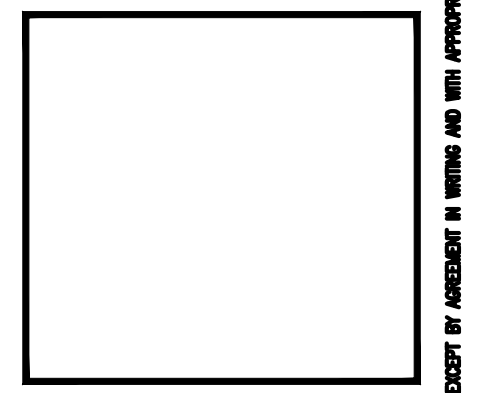
Coastal Plains Engineering, P.A.
295 LOCKLEAR RD
P.O. Box 1117
Fembridge, NC 28372
Voice: 910-521-7213
Fax: 910-521-7213
www.coastalplainseng.com
License No: C-2059



PERMITTING STAMP:



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



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SHEET TITLE:
PLUMBING PLAN

P-1
SHEET OF

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