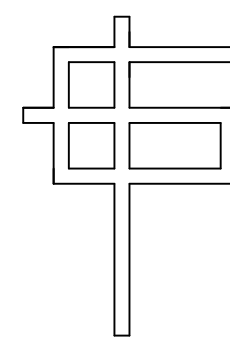


LAKESIDE SELF-STORAGE

4721 NEILLS CREEK ROAD
ANGIER NC, 27501
HARNETT COUNTY
NORTH CAROLINA
BUILDING G



G. CLEVELAND PATE, PLLC
Architecture • Planning
6013 Fordland Drive, Raleigh, NC 27606
919-851-0052



INDEX OF SHEETS

ARCHITECTURAL

APPENDIX B
A1-FLOOR
A2-ELEVATION

STRUCTURAL

SEE BETCO DRAWINGS
FOR FOUNDATION &
STRUCTURAL FRAMING



LAKESIDE STORAGE
ANGIER, NORTH CAROLINA

SUBMITTED TO :

IS NIELLS CREEK, LLC.
ATTN: LA RUE POWELL
110 WILD WINDS DRIVE
COATS, NORTH CAROLINA 27521

PHONE: (919) 820-0143

NOTE: DETAIL LABELS CONTAINED WITHIN THIS SET OF PLANS MAY
REFERENCE THE ERECTION DRAWINGS MARKED IN THIS SCHEDULE.
EXAMPLE: DETAIL A/900 REFERS TO DETAIL "A" LOCATED ON ERC900X.

ERECTION DRAWINGS				
ERC010X		ERC200X		ERC420X
ERC016X		ERC201X		ERC500X
ERC100X		ERC202X		ERC505X
ERC105X		ERC203X		ERC506X
ERC106X		ERC204X		ERC515X
ERC110X		ERC206X		ERC600X
ERC112X		ERC207X		ERC601X
ERC115X		ERC208X		ERC602X
ERC120X		ERC209X		ERC603X
ERC130X		ERC250X		ERC604X
ERC150X		ERC250XPHP		ERC605X
ERC151X		ERC251X		ERC606X
ERC152X		ERC251XPHP		ERC607X
ERC153X		ERC252X		ERC608X
ERC154X		ERC251XPHP		ERC609X
ERC155X		ERC253X		ERC610X
ERC175X		ERC254X		ERC611X
ERC176X		ERC255X		ERC612X
ERC177X		ERC256X		ERC613X
ERC178X		ERC257X		ERC614X
ERC179X		ERC258X		ERC615X
ERC180X		ERC302X(INS)		ERC616X
ERC181X		ERC302X		ERC617X
ERC182X		ERC410XFL		ERC618X
ERC183X		ERC411X		ERC618XALT

SCHEDULE OF DRAWINGS	
DRAWING NO.	DESCRIPTION
CS	COVER SHEET
CS2	BUILDING NOTES
CS3	APPENDIX "B"
CS4	UL # U423
S1	ELEVATIONS & NOTES
S2	FLOOR PLAN & NOTES
S3	CROSS SECTION & DETAILS
F1	FOUNDATION PLAN & NOTES
F2	FOUNDATION DETAILS

WIND LOAD DESIGN DATA:
ULTIMATE DESIGN WIND SPEED: (V_{ULT}) 108 MPH
NOMINAL DESIGN WIND SPEED: (V_{ASD}) 84 MPH
BUILDING CATEGORY: I
WIND EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT: ± 0.18

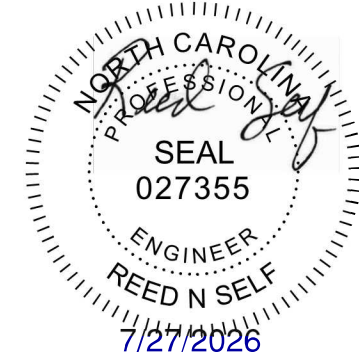
SNOW LOAD DESIGN DATA:
GROUND SNOW LOAD (P_g): 15 PSF
FLAT-ROOF SNOW LOAD (P_f): 12.1 PSF
SNOW EXPOSURE FACTOR (C_e): 1.2
SNOW LOAD IMPORTANCE FACTOR (I): 0.8
THERMAL FACTOR (C_t): 1.2

EARTHQUAKE LOAD DESIGN DATA:
- RISK CATEGORY: I
- SEISMIC IMPORTANCE FACTOR (I): 1.0
- SEISMIC DESIGN CATEGORY: B
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-16 SECTION 12.8)
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAMED WALLS WITH STEEL SHEAR PANELS
- SITE CLASS: D
- DESIGN BASE SHEAR: BUILDING "G": 0.428 ^k
- RESPONSE MODIFICATION FACTOR (R): 7.0
- SEISMIC RESPONSE COEFFICIENT (C_s): 0.019
- MAPPED SPECTRAL RESPONSE ACCELERATION (S_s): 12.7% G (S_1): 6.3% G
- SPECTRAL RESPONSE COEFFICIENTS (S_{DS}): 13.6% G (S_{D1}): 10.1% G

BUILDING DATA :

BUILDING DESCRIPTION :	SINGLE STORY METAL BUILDING BOLTED TO CONCRETE SLAB FOUNDATION.
BUILDING SIZE :	BUILDING "G" VARIES = 4,500 sq. ft. 10'-0" EAVE HEIGHT
PARKING DATA :	SEE SITE PLAN BY OTHERS
BUILDING CODE :	THE 2024 NORTH CAROLINA BUILDING CODE
DESIGN CRITERIA :	THIS BUILDING HAS BEEN DESIGNED TO CONFORM TO THE STRUCTURAL REQUIREMENTS OF THE 2024 NORTH CAROLINA BUILDING CODE, WITH CURRENT REVISIONS. THIS BUILDING HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADINGS IN ADDITION TO THE DEAD LOADINGS : ROOF LIVE LOADING : 20 psf FLOOR LIVE LOADING: 125 psf USE GROUP: S-1 TYPE OF CONSTRUCTION: II-B

PROJECT NUMBER :
NC26153 - G



BETCO, Inc.
228 Commerce Blvd.
Statesville, NC 28625
Limited Engineering License # D-0140

GENERAL NOTES:

1. CONCRETE FOUNDATIONS AND FLOOR SLABS ARE TO BE SUPPLIED AND INSTALLED BY OTHERS . WEDGE ANCHORS FOR INTERIOR AND EXTERIOR FOOTINGS SUPPLIED AND INSTALLED BY BETCO.
2. EXTERIOR OPENINGS, NOT DESIGNATED AS DOOR LOCATIONS, TO BE COMPLETED USING EXTERIOR WALL PANELS FURNISHED BY BETCO.
3. USE DOW 791 SILICONE CAULK AND 1/2" WIDE BUTYL RUBBER TAPE SEALANT FOR ROOF INSTALLATION. USE DOW 799 SILICONE CAULK AT DOWNSPOUT TO GUTTER JOINT.
4. INTERIOR PARTITIONS PERPENDICULAR TO ROOF BEAM(S) MUST BE COMPLETED BEFORE ROOF PANELS ARE INSTALLED. USE PARTITION FRAMING TO PLUMB AND SQUARE COLUMNS AND HEADER SECTIONS. CHECK BUILDING WIDTH AT TOP OF COLUMNS PRIOR TO ROOF INSTALLATION.
5. THOROUGHLY SUEEP ROOF PANELS FOLLOWING INSTALLATION TO REMOVE METAL DRILLINGS.
6. THIS DESIGN IS BASED ON USING ONLY METAL BUILDING COMPONENTS WHICH ARE PROPRIETARY TO BETCO. FURTHER, THE PROFESSIONAL ENGINEER'S SEAL IS INVALID UNLESS ONLY BETCO METAL BUILDING COMPONENTS ARE UTILIZED.
7. METAL STUDS (IF APPLICABLE) MAY REQUIRE FIELD CUTTING DEPENDING UPON THE EAVE HEIGHT OF THE STRUCTURE.
8. UNIT SIZES SHOWN ARE NOMINAL. ACTUAL CLEAR DIMENSIONS INSIDE UNITS MAY VARY ACCORDING TO FINAL DESIGN OF COMPONENTS.
9. THESE DRAWINGS ARE THE PROPERTY OF BETCO, INC. AND MAY NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF BETCO, INC.
10. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.
11. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL SLEEVES, PADS, DEPRESSIONS, OPENINGS, ETC. AS REQUIRED BY THE VARIOUS TRADES.

FOUNDATIONS:

1. THE FOUNDATION DESIGN IS BASED ON A PRESUMED ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. NOTIFY ENGINEER IF SITE CONDITIONS DIFFER FROM DESIGN ASSUMPTIONS SPECIFIED.
2. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.
3. TOP OF FOOTING ELEVATIONS ARE SHOWN ON THE DRAWINGS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD IN ACCORDANCE WITH THE GUIDE LINES SET FORTH IN THE DRAWINGS AND SPECIFICATIONS.
4. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD OR OTHER ORGANIC MATERIAL AND COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. MATERIALS USED FOR FILL UNDER FOOTINGS AND WITHIN BUILDING LIMITS SHALL BE TESTED AND APPROVED FOR THE USE BY THE GEOTECHNICAL TESTING AGENCY.
5. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEERS APPROVAL.
6. FOUNDATION WALLS RETAINING EARTH SHALL BE BRACED AGAINST BACK FILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
7. FOUNDATION WALLS OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL HAVE BOTH FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION.
8. DO NOT PLACE CONCRETE IN ANY EXCAVATION CONTAINING ICE, FROST, FROZEN GROUND OR FREE WATER. FROZEN SUB GRADES MUST BE THAWED AND RECOMPACTED PRIOR TO PLACING CONCRETE.
9. EARTH FORMED FOOTINGS SHALL CONFORM TO THE SHAPE, LINES, AND DIMENSIONS AS SHOWN ON THE FOUNDATION PLAN. ALL WATER SHALL BE REMOVED BEFORE DEPOSITING CONCRETE.
10. BEFORE PLACING CONCRETE, ALL EMBEDDED ITEMS SHALL BE PROPERLY LOCATED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE.
11. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
12. PERIMETER FOUNDATION MUST NOT EXCEED 1/4" ELEVATION VARIATION ALONG ANY 50' DISTANCE OF BUILDING LENGTH.
13. PERIMETER FOUNDATION TO EXTEND BELOW FROST LINE. VERIFY REQUIRED DEPTH WITH LOCAL BUILDING OFFICIALS PRIOR TO PROCEEDING WITH FOUNDATION WORK AND NOTIFY ENGINEER OF DEVIATION FROM DRAWING.
14. THE AMERICAN CONCRETE INSTITUTE DOES NOT RECOGNIZE FIBERMESH AS A SUBSTITUTE FOR WIRE MESH REINFORCED CONCRETE WHEN SUBJECTED TO TENSILE STRESS.
15. SAW CUT CONTROL JOINTS IN SLAB SURFACE AT APPROXIMATELY 10'-0" INTERVALS ... OFFSET CUTS 2'-6" MINIMUM FROM INTERIOR COLUMN LINES.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 (FY-60,000 PSI).
2. FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
3. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 9F-66, 'ACI DETAILING MANUAL -1994' AND THE 'CRSI MANUAL OF STANDARD PRACTICE', LATEST EDITION.
4. PLACE REINFORCEMENT AND TIES IN GROUT SPACES PRIOR TO GROUTING.
5. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE.

A. FOOTING AND GRADE BEAMS IN GROUND CONTACT	3 INCHES
B. BEAMS AND COLUMNS	2 INCHES
C. SLABS, WALLS, AND JOISTS	3/4 INCH - NOT EXPOSED TO EARTH, LIQUID OR WEATHER
D. SLABS ON GRADE	2 INCHES FROM TOP
E. FORMED SURFACES IN GROUND CONTACT	2 INCHES
6. DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-19 CHAPTER 12 AND AS INDICATED ON THE DRAWINGS. WHERE SPLICES ARE NOT CALLED OUT ON THE DRAWINGS, USE CLASS 'B', BUT IN NO CASE SHALL ANY SPLICE BE LESS THAN 12 INCHES. FOR BARS AS INDICATED BELOW THE BASIC DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY THE FACTORS AS INDICATED FOR TENSION OR COMPRESSION AND THEN ROUNDED UP TO THE NEAREST WHOLE INCH. THE FACTORS INDICATED BELOW ARE CUMULATIVE FOR EACH OF THE CONDITIONS AFFICABLE.
7. WELDED WIRE MAT/FABRIC SHALL CONFORM TO ASTM A184 AND A185 RESPECTIVELY AND BE LAPPED 1'-0" AT ALL SPLICES.
8. ALL REINFORCING TERMINATING AT THE TOPS OF COLUMNS AND PILASTERS SHALL BE HOOKED UNLESS OTHERWISE NOTED.
9. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (9F-66) SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AT OPENINGS THROUGH CONCRETE STRUCTURES. INCLUDE ALL ACCESSORIES SPECIFIED/ REQUIRED TO SUPPORT REINFORCING.
10. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH THE OTHER TRADES.
11. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND TESTING AGENCY A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS IN ORDER TO PERMIT REINFORCING STEEL REVIEW AS REQUIRED BY THE INSPECTION SCHEDULE.
12. REINFORCING IN ALL CONTINUOUS STRIP FOOTINGS SHALL HAVE CORNER BARS OR DOUELS PROVIDE AT ALL CORNERS AND INTERSECTIONS.

CONSTRUCTION AND SAFETY:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.
3. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTORS RESPONSIBILITY.
4. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADERS. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.
5. NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.
7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTORS MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEERS REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.
9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.
10. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY THE EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
11. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
12. DO NOT SCALE THESE DRAWINGS, USE THE DIMENSIONS SHOWN.

CONCRETE:

1. SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE DESIGN MIX NOT LESS THAN 15 DAYS PRIOR TO THE START OF WORK. DESIGN MIXES PREPARED MORE THAN TWELVE (12) MONTHS PRIOR TO THE DATE THE SUBMITTAL ARE NOT PERMITTED.
2. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19).
3. ALL CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY FOR STANDARD PARAMETERS (SLUMP, COMPRESSIVE STRENGTH, ETC.). TWO COPIES OF ALL REPORTS SHALL BE SUBMITTED TO THE ENGINEER/ ARCHITECT.
4. ALL NORMAL WEIGHT CONCRETE SHALL HAVE ASTM C-33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. CONCRETE COMPRESSIVE STRENGTH SHALL BE 5000 PSI AT 28 DAYS, MINIMUM FOR FOUNDATIONS AND SLABS ON GRADE. ALL CONCRETE FOR FLOOR SLABS ON METAL DECK FORMS SHALL BE NORMAL WEIGHT CONCRETE WITH COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
5. MIX DESIGNS, INCLUDING WATER CEMENT RATIOS AND SLUMPS, SHALL BE PREPARED IN ACCORDANCE WITH MOST CURRENT ACI 301 CHAPTER 3, EXCEPT WHERE NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS. CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR AT CONTRACTOR'S OPTION, ASTM C 595 TYPE IF WHERE FLY ASH IS PERMITTED. NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF AND LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C 330 AGGREGATE. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED IN ANY CONCRETE.

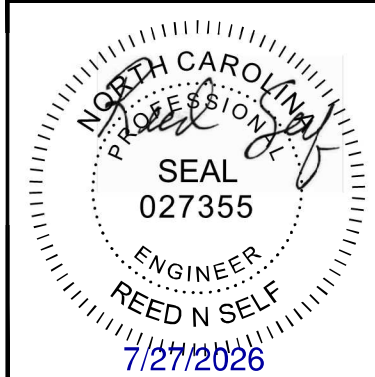
AGGREGATE SIZES SHALL BE:	
I. FORMED CONCRETE ELEMENTS, UNO.	#1 STONE (3/4" MAX)
II. GRADE SLABS AND EARTH FORMED ELEMENTS.	#1 STONE (1" MAX)
III. COARSE MASONRY GROUT REQUIRED	#1 STONE (3/4" MAX)
IV. FINE MASONRY GROUT REQUIRED	#5 STONE (3/8" MAX)

6. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.

7. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301-84 TABLE 3.41 SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION OR SERVICE CONDITIONS.
8. WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING.
9. ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.45 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).
10. IN NO CASE SHALL A WATER/CEMENT RATIOS EXCEED THE FOLLOWING:

I. ALL FOUNDATION CONCRETE to 3000 psi	0.55 MAX. W/C RATIO
II. EXTERIOR PAVING CONCRETE to 3500 psi	0.50 MAX. W/C RATIO
III. ALL EXPOSED C.I.P. WATERTABLE, PIERS, ETC. to 3500 psi	0.45 MAX. W/C RATIO
III. SLABS ON GRADE to 3000 psi	0.45 MAX. W/C RATIO
11. LIQUID MEMBRANE CURING COMPOUND WITH A MINIMUM 30% SOLIDS CONTENT SHALL BE APPLIED WITHIN TWO (2) HOURS AFTER COMPLETION OF FINISHING TO ALL CONCRETE FLATWORK AND WALLS, UNO, OTHER THAN FOOTINGS AND GRADE BEAMS.
12. FLOORS IN AREAS RECEIVING QUARRY TILE, CERAMIC TILE AND LIQUID FLOOR HARDENER SHALL BE CURED WITH DISSIPATING LIQUID MEMBRANE CURING COMPOUND OR WET CURED BY USE OF MOISTURE RETAINING COVER. DISSIPATING CURING COMPOUND SHALL BE THOROUGHLY BROOMED AND WASHED OFF PRIOR TO APPLICATION OF FLOOR FINISH.
13. USE A NON-CORROSIVE, NON-CHLORIDE ACCELERATING ADMIXTURE IN CONCRETE EXPOSED TO TEMPERATURES BELOW 40 DEGREES. UNIFORMLY HEAT THE WATER AND AGGREGATES TO A TEMPERATURE OF NOT LESS THAN 50 DEGREES. PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI 306.
14. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE STRUCTURAL ENGINEER.
15. REINFORCING IN ALL ABUTTING CONCRETE, INCLUDING FOOTINGS, SHALL BE CONTINUOUS THROUGH OR AROUND ALL CORNERS OR INTERSECTIONS. DOUELS OR SPLICES SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ABUTTING MEMBERS.
16. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHES, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
17. FORMS FOR ROUND COLUMNS SHALL BE ONE PIECE FIBERGLASS FORM TO PRODUCE SMOOTH FINISH ON EXPOSED COLUMNS.
18. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
19. BASE PLATES, ANCHOR RODS, SUPPORT ANGLES AND OTHER STEEL EXPOSED TO EARTH OR GRANULAR FILL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
20. FINISHING TOLERANCE SHALL BE WITHIN CLASS B IN ACCORDANCE WITH ACI 301 AND CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT TO FACILIATE CONTROL OF FINISH ELEVATIONS.
21. NON-SHRINK GROUT SHALL BE PRE-MIXED, NON-CORROSIVE, NON-METALLIC, NON-STAINING CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AND WATER REDUCING AGENTS. PRODUCTS SHALL ONLY REQUIRE THE ADDITION OF WATER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS. GROUT SHALL BE FREE OF GAS PRODUCING OR AIR RELEASING AND OXIDIZING AGENTS AND CONTAIN NO CORROSIVE IRON, ALUMINUM OR GYPSUM.
22. PROVIDE CONCRETE GROUT - NOT MORTAR - FOR REINFORCING MASONRY LINTEL AND BOND BEAMS WHERE INDICATED ON DRAWINGS OR AS SCHEDULED.
23. TOLERANCE FOR ANCHOR RODS AND OTHER EMBEDDED ITEMS SHALL BE PER THE AISC CODE OF STANDARD PRACTICE SECTION 15.
24. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMN, WALL, SLAB, OR BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

BETCO, Inc.
228 Commerce Blvd.
Statesville, NC 28625
Limited Engineering License # D-0140



			DATE: 7/20/26
			DRAWN BY: CWM
			SCALE: AS NOTED
			APPROVED BY:
REVISIONS	DATE	BY	



228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800) 654-7813

PROJECT NAME: LAKESIDE STORAGE	
PROJECT ADDRESS: ANGER, NORTH CAROLINA	
OWNER: IS NIELLS CREEK, LLC.	PROJECT NO.: NC26153-G
SHEET TITLE: BUILDING NOTES BUILDING "G"	DRAWING NUMBER: CS2 OF 4

2024 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Lakeside Storage
Address: Angier, NC Zip Code: 27501
Owner/Authorized Agent: La Rue Powell Phone # (919) 820-0143 E-Mail:
Owned By: Private
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil				()	
Electrical				()	
Fire Alarm				()	
Plumbing				()	
Mechanical				()	
Sprinkler-Standpipe				()	
Structural		Devo	27355	(704)872-2999	noels@betcoinc.com
Retaining Walls >9' High				()	
Other				()	

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

2024 NC BUILDING CODE: New Building

2024 NC EXISTING BUILDING CODE: N/A N/A

CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3):

RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3):

OCCUPANCY CATEGORY (Table 1604.5): Current: N/A Proposed: I

BASIC BUILDING DATA

Construction Type: II-B

Sprinklers: Select one

Standpipes: Select one

Primary Fire District: Select one

Flood Hazard Area: Select one

Special Inspections Required: Select one

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Building G		4500	4500
TOTAL		4500	4500

ALLOWABLE AREA

Primary Occupancy Classification(s): Storage - S-1 N/A N/A N/A N/A N/A

Accessory Occupancy Classification(s):

Incidental Uses (Table 509):

Special Uses (Chapter 4 - List Code Sections):

2024 NC Administrative Code and Policies

Special Provisions: (Chapter 5 - List Code Sections):

Mixed Occupancy: No Separation: Select one Exception:

Select one

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

$$+ \dots + \dots = \dots \leq 1.00$$

STORY	DESCRIPTION AND USE	(A) BLDG AREA FOR STORY (ACTUAL)	(B) TABLE 506.2.1 AREA	(C) TABLE 506.2.1 AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA FOR STORY OR UNLIMITED ³
Blldg G	S-1	4500	17500	0	17500

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 = (F)

b. Total Building Perimeter = (P)

c. Ratio (F/P) = (F/P)

d. W = Minimum width of public way = (W)

e. Percent of frontage increase $I_f = 100[(F/P) - 0.25] \times W/30 =$ (%)

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 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

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55 ft	10 ft	
Building Height in Stories (Table 504.4)	2	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	RATING	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		NC				
Roofing Walls						
Exterior	≥ 10 ft					
North	≥ 10 ft					
East	≥ 10 ft					
West	≥ 10 ft					
South	≥ 10 ft					
Interior	N/A					
Nonbearing Walls and Partitions						
Exterior walls	N/A					
North	N/A					
East	N/A					

2024 NC Administrative Code and Policies

2024 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 0.80 Seismic (Is) 1.0

Live Loads: Roof 20 psf Mezzanine N/A psf Floor 125 psf

Ground Snow Load: 15 psf

Wind Load: Design Wind Speed V(ultimate)= 108 mph (ASCE 7-16) Exposure Category B Wind Base Shear (MWFRS): Vx=24.1k Vy=65.9 k

SEISMIC DESIGN CATEGORY: B

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) I

Spectral Response Acceleration Ss=12.7 % Si=6.3 %

Site Classification (ASCE 7) D

Date Source: Presumptive

Basic structural system Building Frame

Seismic Base Shear: Vx=0.428 k Vy=0.428 k

Analysis Procedure: Equivalent Lateral Force

Architectural, Mechanical, Components anchored? Yes

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES:

Presumptive Bearing Capacity 3000 psf

Pile size, type, and capacity

2024 NC Administrative Code and Policies

West	N/A				
South	N/A				
Interior walls and partitions	N/A				
Floor Construction including supporting beams and joists	N/A				
Roof Ceiling Assembly	N/A				
Columns Supporting Floors					
Roof Construction, including supporting beams and joists	NC				
Roof Ceiling Assembly	N/A				
Columns Supporting Roof	N/A				
Shaft Enclosures - Exit	N/A				
Shaft Enclosures - Other	N/A				
Corridor Separation	N/A				
Occupancy/Fire Barrier Separation	1 hr	C84	1424		
Party/Fire Wall Separation	N/A				
Smoke Barrier Separation	N/A				
Smoke Partition	N/A				
Entrance/Dwelling Unit/Sleeping Unit Separation	N/A				
Incidental Use Separation	N/A				

* Indicate section number permitting reduction NC=Non-combustible

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.3)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Select one
Exit Signs: Select one
Fire Alarm: Select one
Smoke Detection Systems: Select one
Carbon Monoxide Detection: Select one

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #:

- ☐ 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)

2024 NC Administrative Code and Policies

- ☐ 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)

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)

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

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE:	SPACE:	WATER FIXTURES			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

2024 NC Administrative Code and Policies

2024 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)

lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed

Additional Efficiency Package Options

(When using the 2024 NCCES, not required for ASHRAE 90.1)

- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

2024 NC Administrative Code and Policies

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228 Commerce Blvd.
Statesville, NC 28625
Limited Engineering License # D-0140



PROJECT NAME: LAKESIDE STORAGE
PROJECT ADDRESS: ANGIER, NORTH CAROLINA
OWNER: IS NIELLS CREEK, LLC.
PROJECT NO.: NC26153-G
DRAWING NUMBER: CS3 OF 4
SHEET TITLE: APPENDIX "B" BUILDING "G"

DATE: 7/20/26

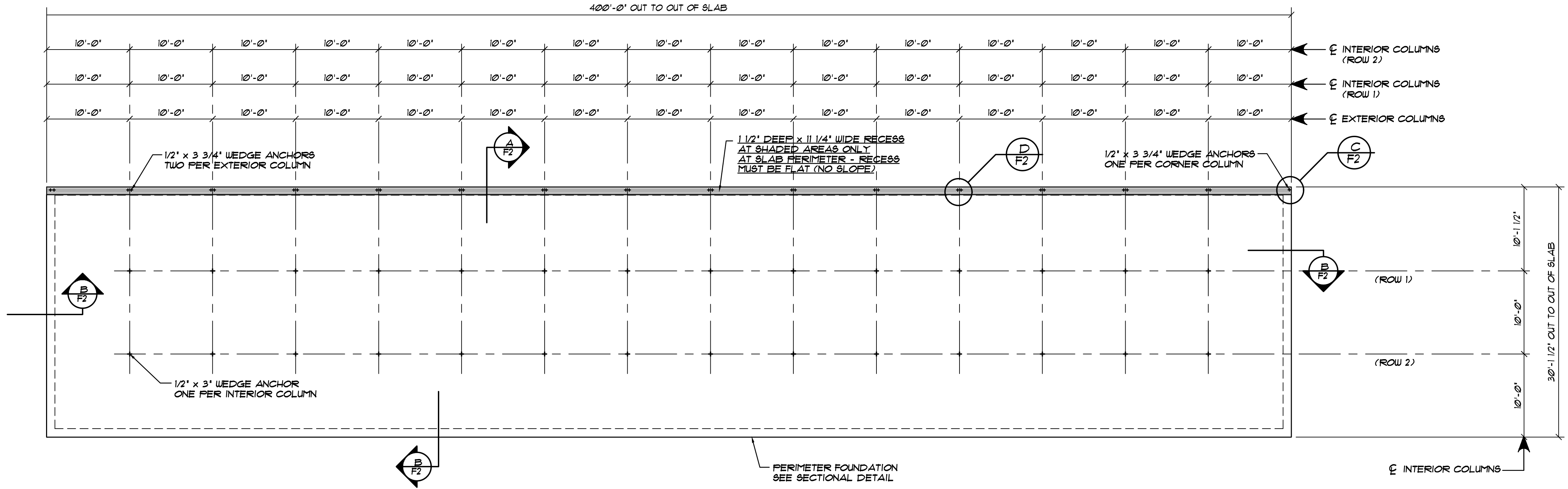
DRAWN BY: CWM

SCALE: AS NOTED

APPROVED BY:

REVISIONS DATE BY

Product IQ®		Design/System/Construction/Assembly Usage Disclaimer	
Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. Authorities Having Jurisdiction should be consulted before construction. Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. Only products which bear U.S. Mark are considered Certified. BXUV – Fire Resistance Ratings – ANSI/UL 263 Certified for United States BXUV7 – Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada <i>See General Information for Fire-Resistance Ratings – ANSI/UL 263 Certified for United States</i> <i>See General Information for Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada</i> <i>Design Criteria and Allowable Variations</i> Design No. U423 March 05, 2026 Warning Wall Ratings – 3/4 Hr, 1-1/2 or 2 Hr (See Items 5 & 7) This design was evaluated using a load design method other than the Limit State Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit State Design Method, such as Canada, a load restriction factor shall be used – See Guide BXUV or BXUVZ. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.		1. Floor and Ceiling Runners – (Not Shown, As an alternate to Item 1, For Use With Item 5A and 5C) – Channel shaped runners min 3-1/2 in. deep with 1-1/4 in. flanges fabricated from min No. 20 MS0 corrosion-protected steel. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC. 2. Steel Studs – Min 0.0329 in., bare metal thickness (No. 20 MS0) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. 2A. Steel Studs – (As an alternate to item 2, for use with item 5A, 5C, 5D, and 5E) – Channel shaped, fabricated from min 20 MS0 corrosion-protected galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. 2B. Steel Studs – (As an alternate to item 2 and 2A, For Use With Item 5B) – Min 0.0329 in., (No. 20 MS0) corrosion-protected cold formed steel studs, min 3-1/2 in. deep by 1-5/8 in. wide with 1/2 in. returns. Braced at mid-height and designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications. 2C. Framing Members – Steel Studs – (As an alternate to item 2, for use with item 5C) – Channel shaped, fabricated from min 20 MS0 (0.0327 in. thick) corrosion-protected or galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 3. Lateral Support Members – (Not shown) – Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system. 4. Wood Structural Panel Sheathing – (Optional, for use with item 5 only) – (Not Shown) – 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural sheathing (plywood) complying with: 8A. Steel Framing Members (Not Shown)* – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to item 8, furring channels and Steel Framing Members as described below: a. Furring Channels – Formed of No. 25 MS0 galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Gypsum board attached to furring channels as described in item 6. Not for use with type FRX-G gypsum panels and items 5A, 5C, 5D, or 5E. b. Steel Framing Members* – Used to attach furring channels (item 8a) to studs (item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RISC-1 clip for use with 2-9/16 in. wide furring channels. RISC-1 (2.78) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL LLC – Types RISC-1, RISC-1 (2.78). 8B. Steel Framing Members* – (Not shown) – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to item 8, furring channels and Steel Framing Members as described below: a. Furring Channels – Formed of No. 25 MS0 galv steel, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in item 6. Not for use with type FRX-G gypsum panels and items 5A, 5C, 5D, or 5E. b. Steel Framing Members* – Used to attach furring channels to studs (item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PUTEQ INC – Type GENIECLIP 8C. Steel Framing Members* – (Not shown) – (Optional on one or both sides, not shown, for single or double layer systems) – As an alternate to item 8, furring channels and Steel Framing Members as described below: a. Furring Channels – Formed of No. 25 MS0 galv steel, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in item 6. Not for use with type FRX-G gypsum panels and items 5A, 5C, 5D, or 5E. 8. Furring Channels – (Optional on one or both sides, not shown, for single or double layer systems) – Resilient furring channels fabricated from min 25 MS0 corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 panhead steel screws. Not for use with type FRX-G gypsum panels and items 5A, 5C, 5D, or 5E.	
		DOC PSI or PSR, APA Standard PRF-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.282 in. at maximum 8 in. OC in the perimeter and 12 in. OC in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. The maximum loading on the steel studs was evaluated with the steel studs braced at mid-height and not braced by the plywood sheathing. 5. Gypsum Board* – Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered when load is reduced to 90 percent of max stud capacity. When load is at 100 percent, horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered at 100 percent load with Type UUX. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type UUX need not be staggered. When used in widths other than 48 in., assembly, they are to be secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced 8 in. OC at the top and bottom tracks and in the field with screws 1 in. and 4 in. from the horizontal joints. When the gypsum board panels are installed horizontally the joints are to be staggered by a minimum of 12 in. on opposite sides of assembly, they are to be secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced 8 in. OC at the top and bottom tracks and in the field with screws 1 in. and 4 in. from the horizontal joints. When the gypsum board panels are installed vertically or horizontally to them four single layer system – when the gypsum board panels are installed horizontally the joints are to be staggered by a minimum of 12 in. on opposite sides of assembly, they are to be secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced 8 in. OC at the top and bottom tracks and in the field with screws 1 in. and 4 in. from the horizontal joints. 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When the gypsum board panels are installed vertically or horizontally to them four single layer system – when the gypsum board panels are installed horizontally the joints are to be staggered by a minimum of 12 in. on opposite sides of assembly, they are to be secured on each side of the studs with 1-1/4 in. long Type S-12 bugle head steel screws spaced	



FOUNDATION PLAN . . . BUILDING "G"
SCALE: 1/8" = 1'-0"

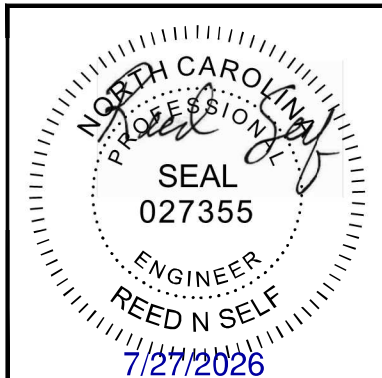
SAW CUT CONTROL JOINTS IN SLAB SURFACE AT APPROXIMATELY 10'-0" INTERVALS . . .
OFFSET CUTS 2'-6" MINIMUM FROM INTERIOR COLUMN LINES.

ACI 318 – TABLE 19.3.1.1			
EXPOSURE CATEGORIES AND CLASSES			
CATEGORY	SEVERITY	CLASS	CONDITION
F FREEZING AND THAWING	NOT APPLICABLE	F0	CONCRETE NOT EXPOSED TO FREEZING-- AND-THAWING CYCLES
S SULFATE			WATER-SOLUBLE SULFATE (SO ₄) IN SOIL, PERCENT BY WEIGHT
	NOT APPLICABLE	S0	SO ₄ < 0.10
W REQUIRING LOW PERMEABILITY	NOT APPLICABLE	W0	CONCRETE DRY IN SERVICE, CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED
C CORROSION PROTECTION OF REINFORCEMENT	MODERATE	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO EXTERNAL SOURCES OF CHLORIDES
NOTE: ABOVE REPRESENTS "ASSUMED" CONDITIONS BY ENGINEER. IF CONTRACTOR KNOWS OR HAS REASON TO BELIEVE OTHERWISE, ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CONSTRUCTION.			
REFERENCE ACI 318-14 – TABLE 19.3.1.1 FOR REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.			

NOTE: . . . SEE OWNER FOR
BUILDING ORIENTATION ON SITE

NOTE:
WEDGE ANCHORS ARE PROVIDED BY BETCO.
EMBEDDED ANCHOR BOLTS IN SLAB ARE
NOT REQUIRED BY BUYER.

NOTE TO OWNER / CONTRACTOR:
DO NOT CUT SAW JOINTS ALONG COLUMN LINES.
DOING SO WILL REDUCE THE STRUCTURAL CAPACITY
OF THE BUILDING ANCHORAGE TO THE CONCRETE AND
MAY RESULT IN ADDITIONAL MATERIAL AND LABOR
CHARGES. SAW CUTS MUST BE OFFSET 2'-6" MINIMUM
FROM COLUMN LINES.

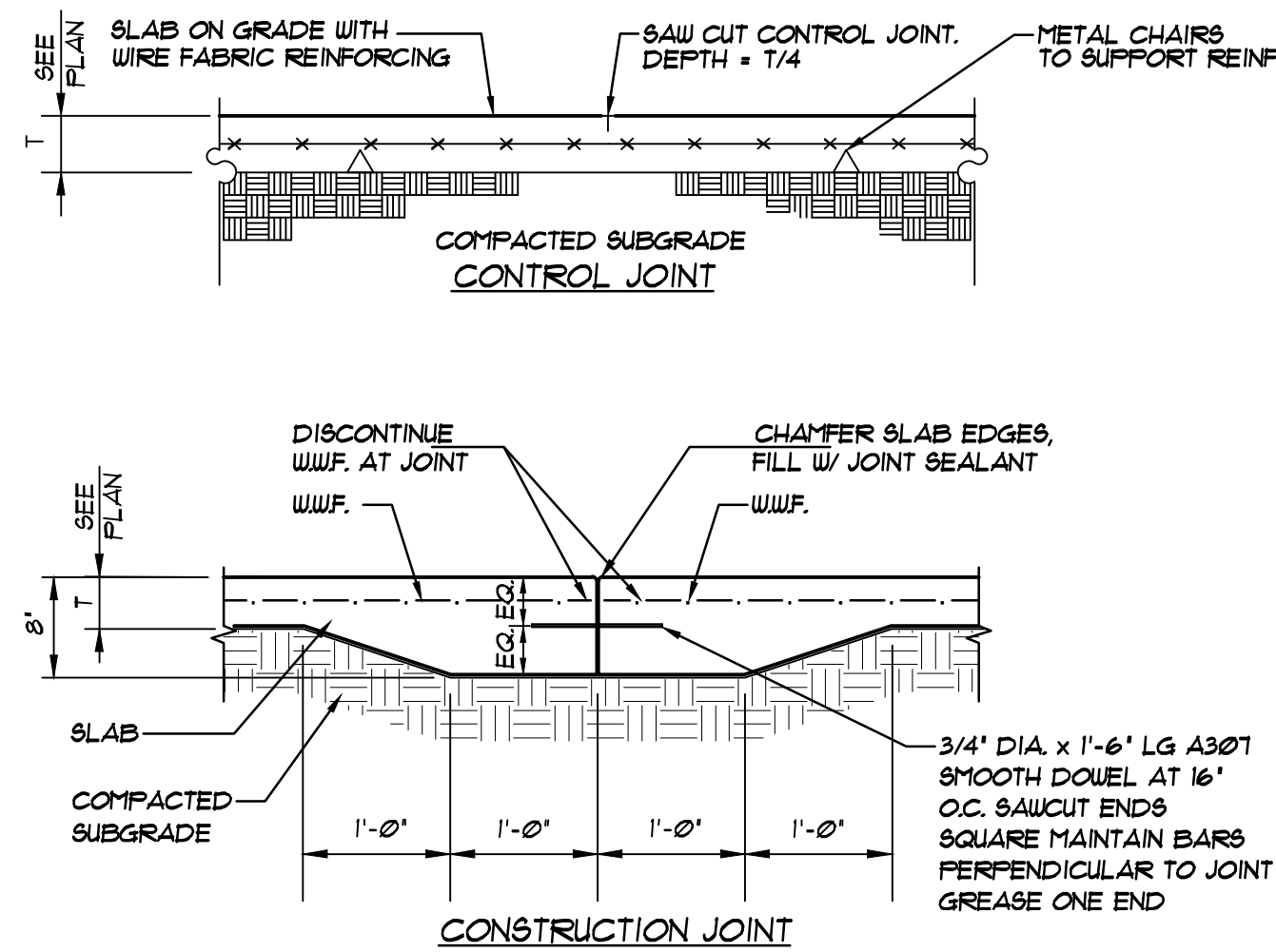


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			DRAWN BY: CWM
			SCALE: AS NOTED
			APPROVED BY:
REVISIONS	DATE	BY	

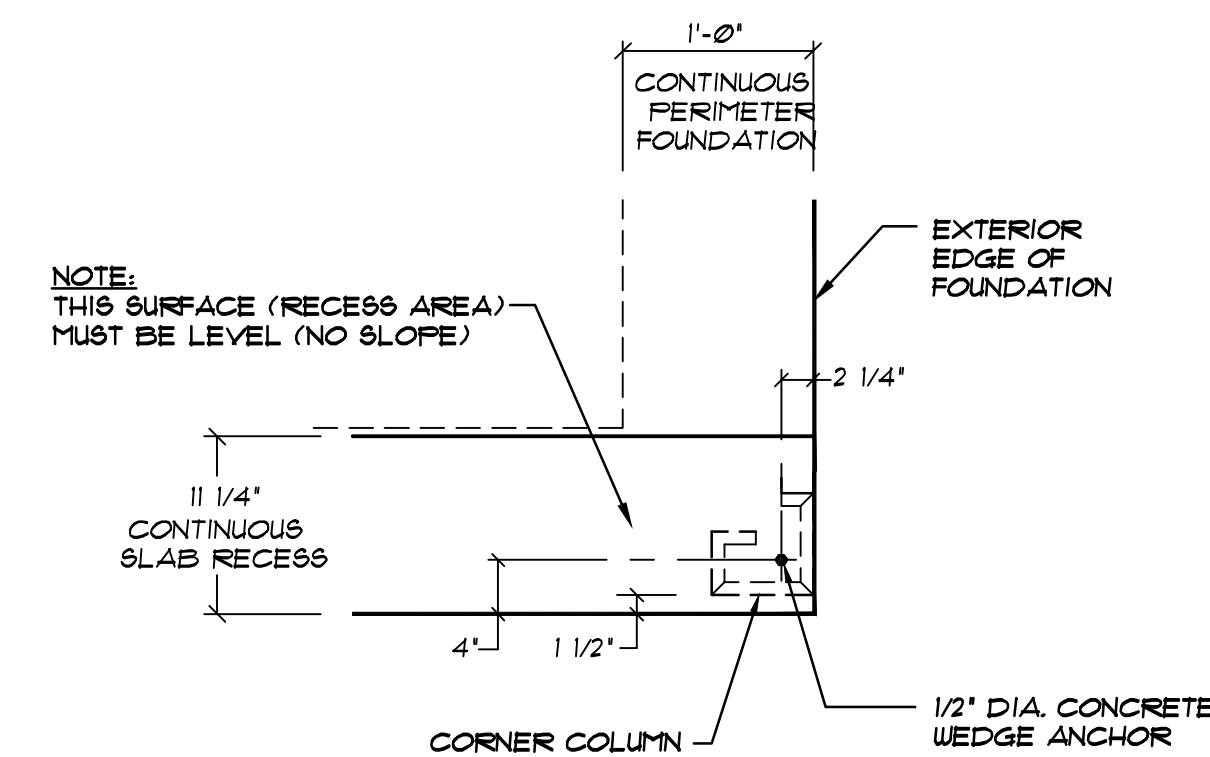


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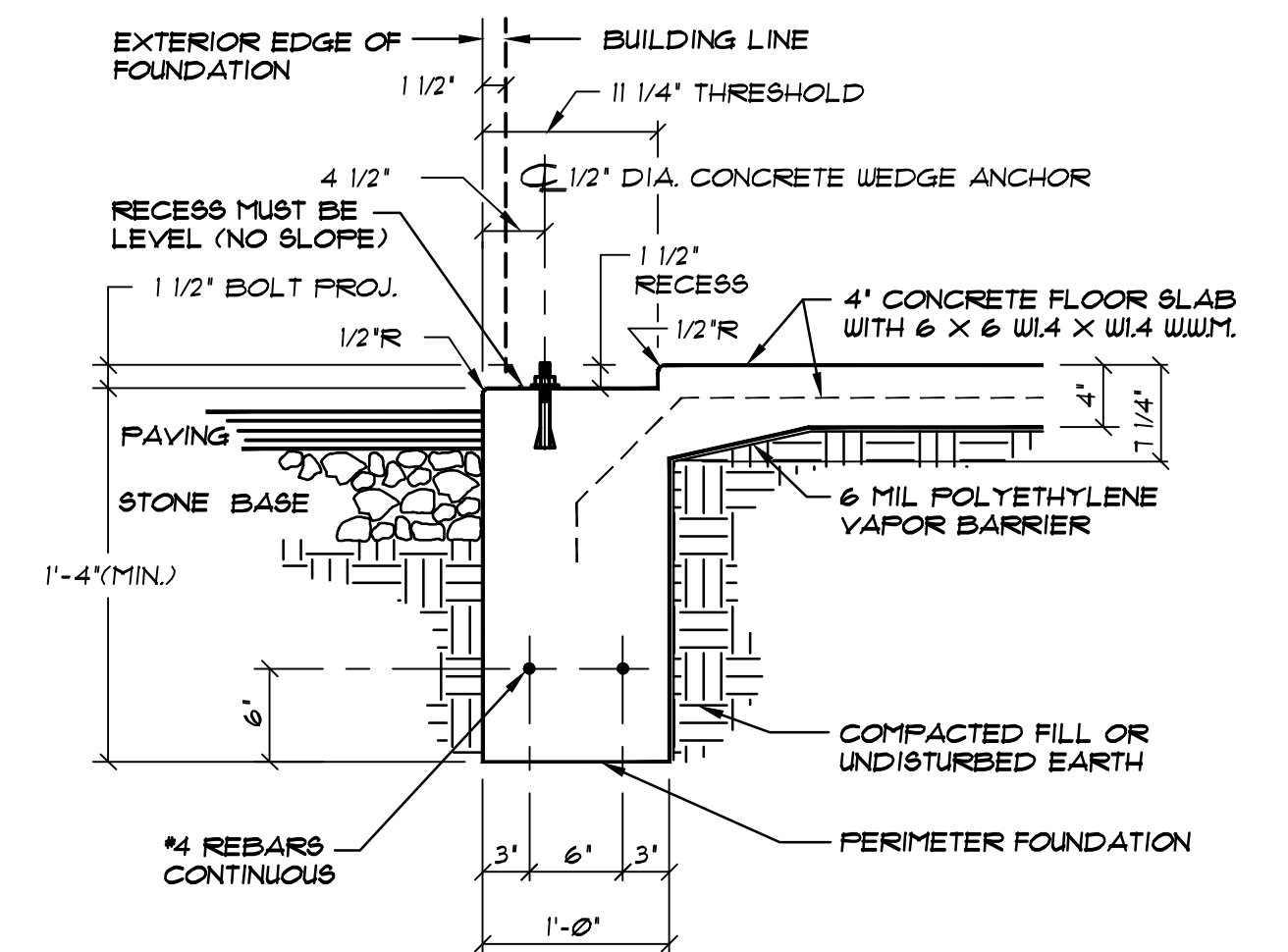
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PROJECT ADDRESS:	ANGIER, NORTH CAROLINA	DRAWING NUMBER:	F1 OF 2
OWNER:	IS NIELLS CREEK, LLC.		
SHEET TITLE:	FOUNDATION PLAN & NOTES BUILDING "G"		



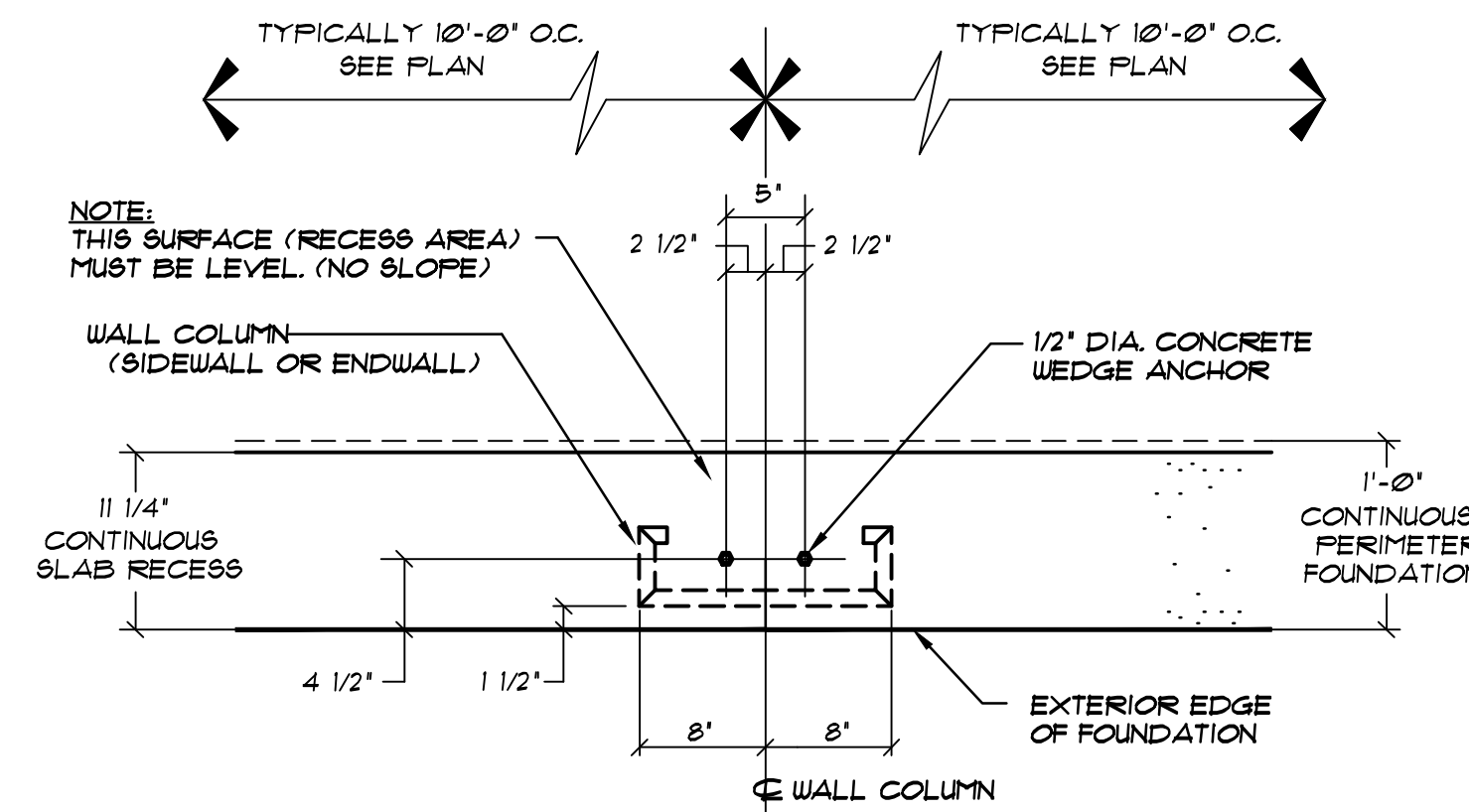
E
F2
CONTROL JOINT & CONSTRUCTION JOINT IN CONCRETE SLAB
NOT TO SCALE



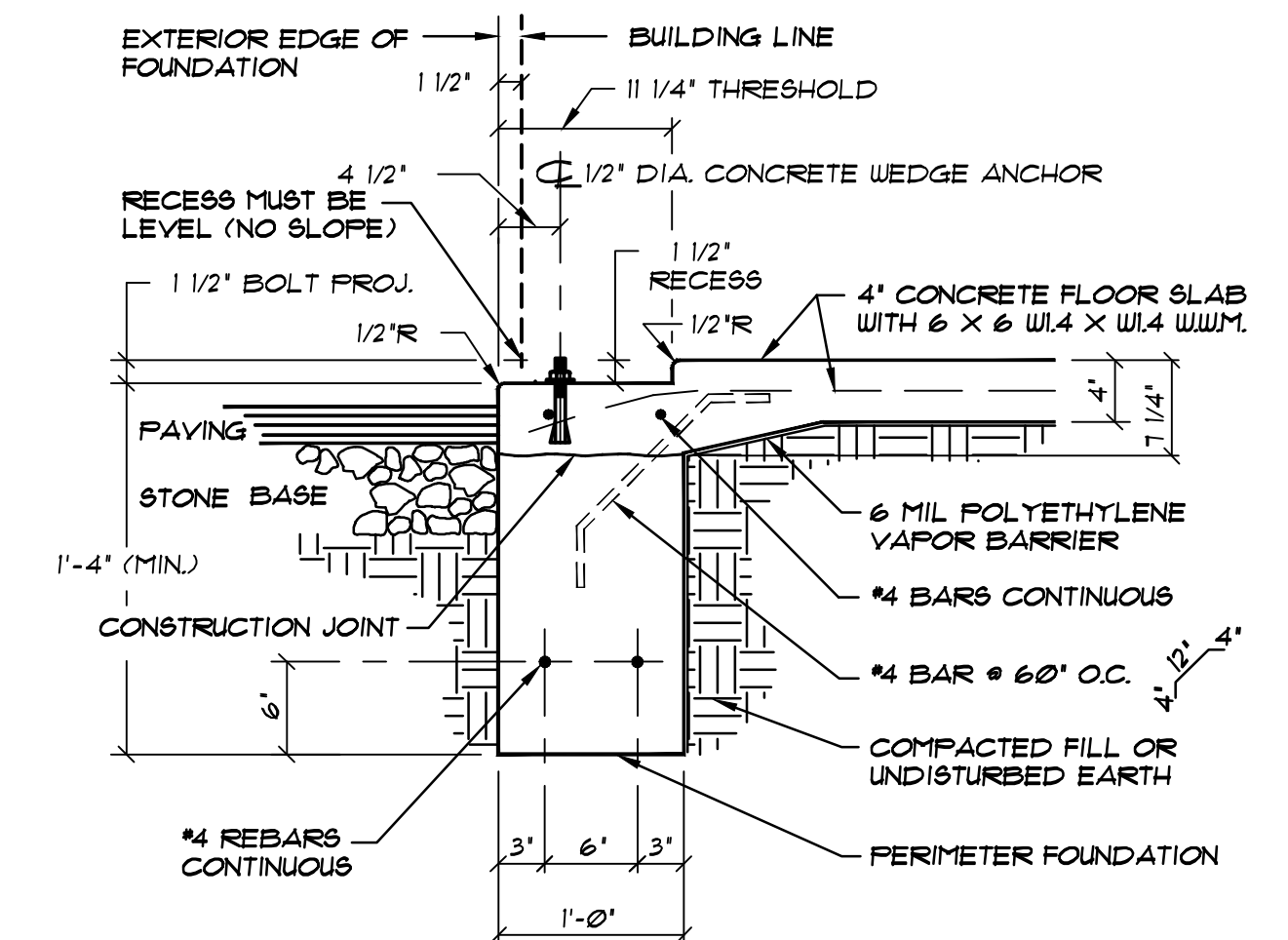
C
F2
CORNER WEDGE ANCHORS AT STUD WALL
NOT TO SCALE



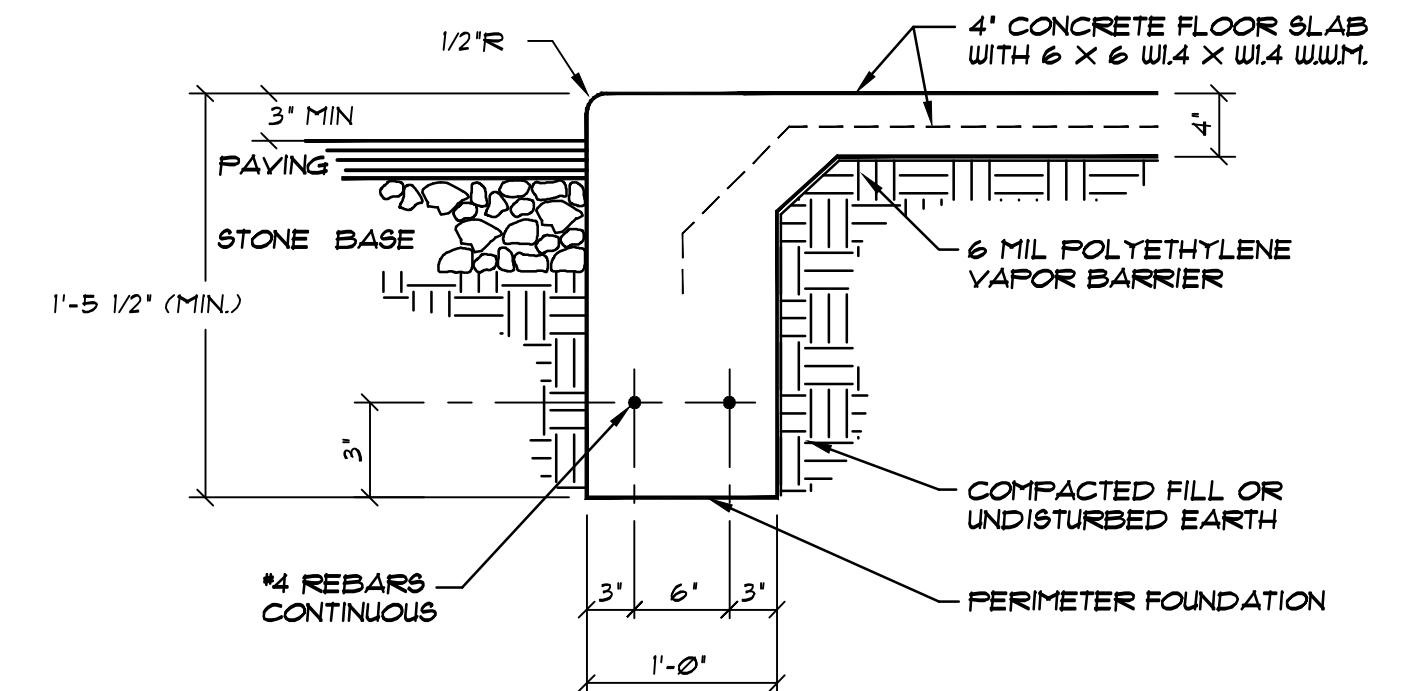
A
F2
TYPICAL PERIMETER FOUNDATION SECTION (MONOLITHIC CONCRETE PLACEMENT)
NOT TO SCALE



D
F2
TYPICAL WALL COLUMN WEDGE ANCHORS
NOT TO SCALE

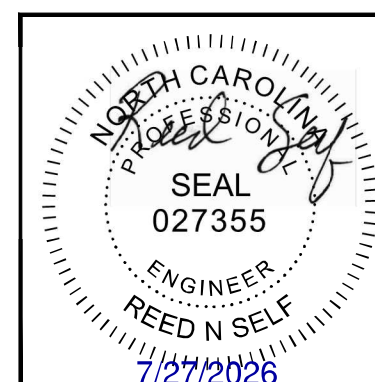


A
F2
ALTERNATE PERIMETER FOUNDATION SECTION (TWO STAGE CONCRETE PLACEMENT)
NOT TO SCALE



B
F2
PERIMETER FOUNDATION SECTION AT EXTERIOR STUDWALL (MONOLITHIC CONCRETE PLACEMENT)
NOT TO SCALE

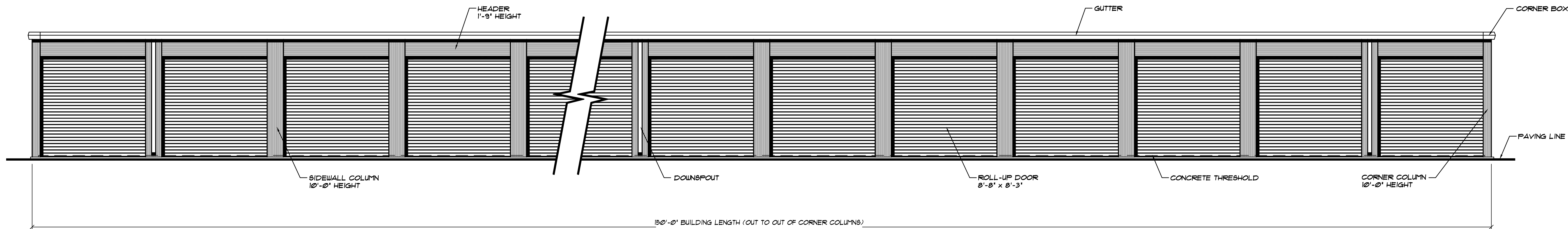
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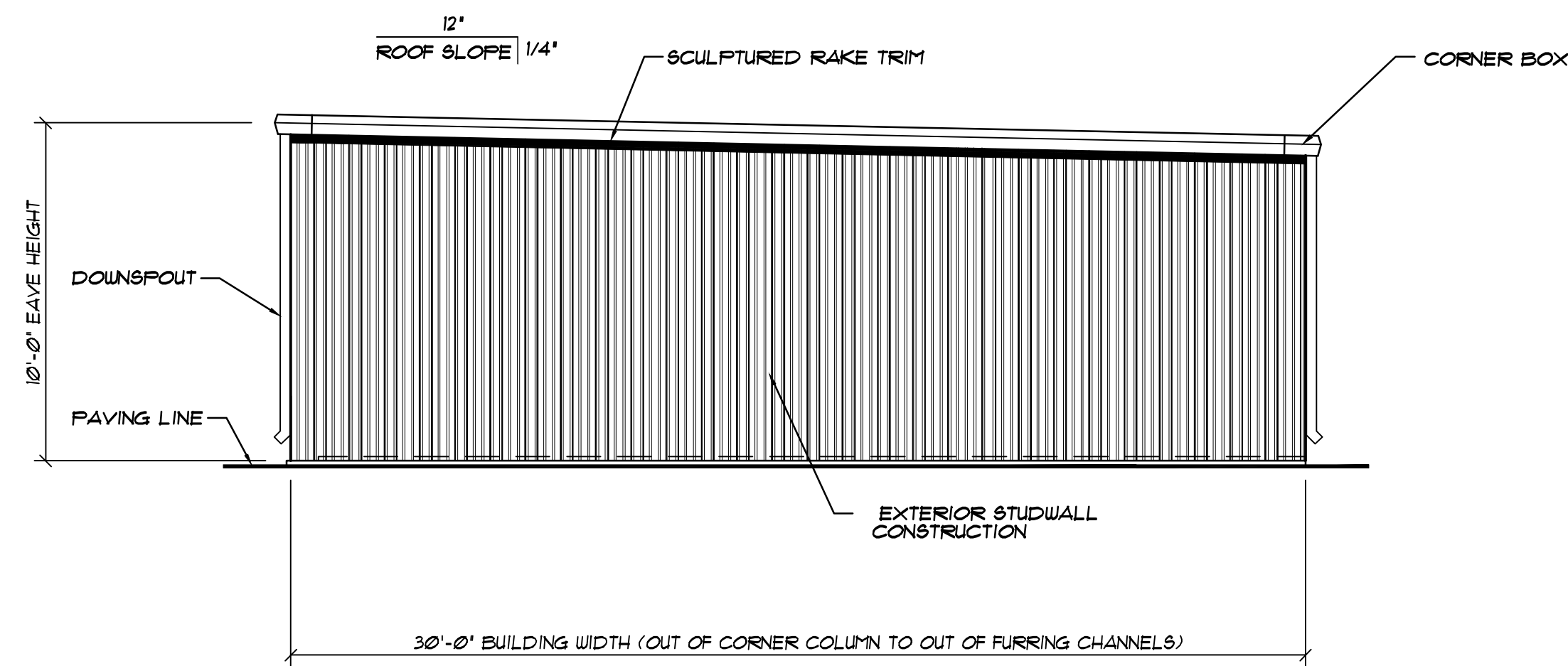
REVISIONS			
REVISIONS		DATE	BY

BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800) 654-7813

PROJECT NAME:	LAKESIDE STORAGE	
PROJECT ADDRESS:	ANGIER, NORTH CAROLINA	
OWNER:	IS NIELLS CREEK, LLC.	PROJECT NO.: NC20153 - G
SHEET TITLE:	FOUNDATION DETAILS BUILDING "G"	DRAWING NUMBER: F2 OF 2



A SIDEWALL ELEVATION . . . BUILDING "G"
 SCALE: 1/4" = 1'-0"

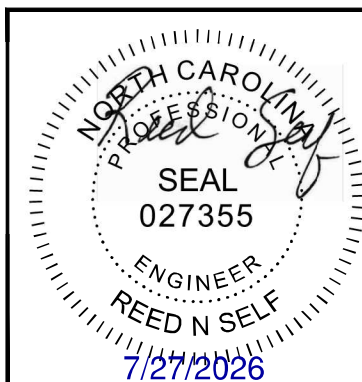


B ENDWALL ELEVATION . . . BUILDING "G"
 SCALE: 1/4" = 1'-0"

BETCO, Inc.
 228 Commerce Blvd.
 Statesville, NC 28625
 Limited Engineering License # D-0140

NOTE: . . . SEE OWNER FOR
 BUILDING ORIENTATION ON SITE

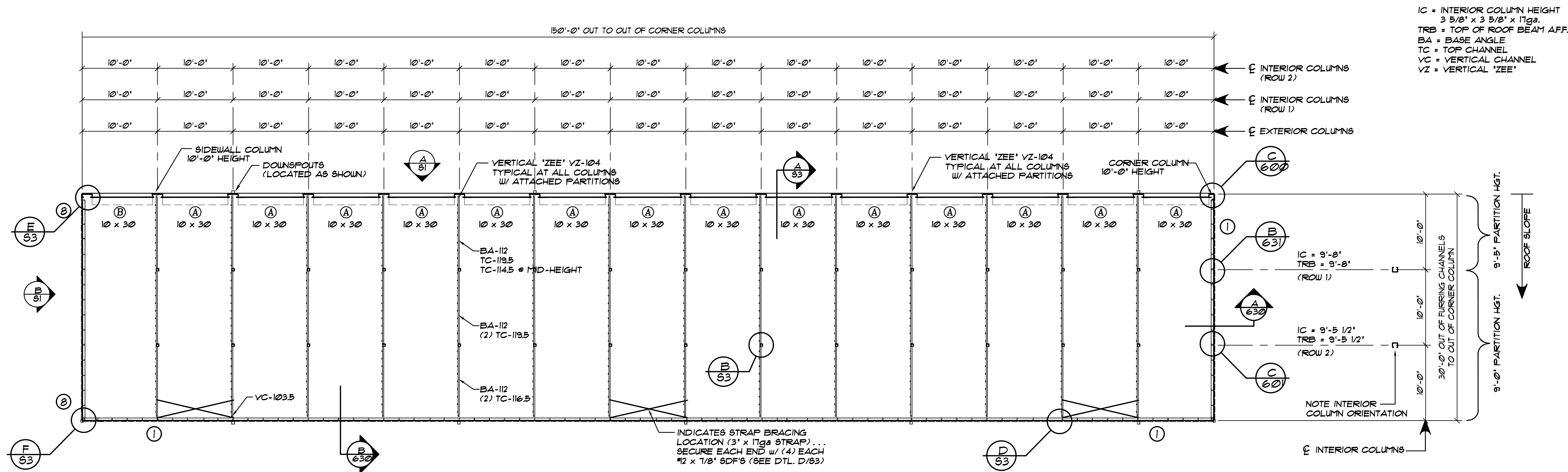
NOTE:
 DOWNSPOUTS LOCATIONS SHOWN FOR
 ELEVATION PURPOSE ONLY. REFER
 TO FLOOR PLAN SHEETS FOR LOCATIONS



REVISIONS			
REVISIONS		DATE	BY

BETCO
 228 COMMERCE BLVD.
 STATESVILLE, NC 28625
 (800) 654-7813

PROJECT NAME:	LAKESIDE STORAGE		
PROJECT ADDRESS:	ANGIER, NORTH CAROLINA		
OWNER:	IS NIELLS CREEK, LLC.	PROJECT NO.:	NC26153 - G
SHEET TITLE:	ELEVATIONS & NOTES BUILDING "G"	DRAWING NUMBER:	S1 OF 3



FLOOR PLAN . . . BUILDING "G"
SCALE: 1/8" = 1'-0"

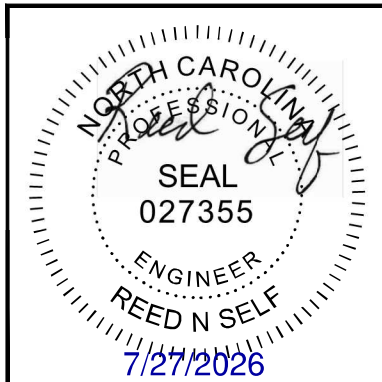
NOTE: BUILDING "G" IS PROVIDED
W/(2) ADJUSTABLE CONTROL JOINT
COLUMNS. 10'-0" HEIGHT

STUDYWALL LEGEND		BUILDING # G	
INTERIOR STUDYWALL		EXTERIOR STUDYWALL	
DESCRIPTION		UNINSULATED	INSULATED
① EXTERIOR STUDYWALL CONSTRUCTION AT FLAT SLAB (BLOCK @ MID-HGT.)		<u>180</u> L.F.	<u>0</u> L.F.
② 1 HOUR EXTERIOR STUDYWALL CONSTRUCTION AT FLAT SLAB (BLOCK @ MID-HGT.) (UL #1423, SEE CS4 FOR CONSTRUCTION)		<u>30</u> L.F.	<u>0</u> L.F.
NOTE #1: SEE ERC610X FOR COMPLETE STUDYWALL CONSTRUCTION DETAILS.			
DOOR SCHEDULE			
ID	DOOR SIZE	TYPE	
④	8'-8" x 8'-3"	EXTERIOR ROLL-UP	
⑤	8'-0" x 8'-3"	EXTERIOR ROLL-UP	

NOTE:
UNIT SIZES SHOWN ARE NOMINAL. ACTUAL
CLEAR DIMENSIONS INSIDE UNITS MAY
VARY ACCORDING TO FINAL DESIGN OF
COMPONENTS.

NOTE: BLOCK ALL
LOAD-BEARING INTERIOR
& EXTERIOR STUD WALLS
AS SHOWN IN DETAIL A
OF ERC631X.

NOTE: . . . SEE OWNER FOR
BUILDING ORIENTATION ON SITE



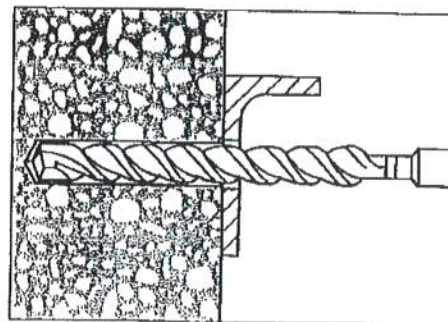
DATE:	7/20/26
DRAWN BY:	CWM
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS	DATE BY

BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800) 654-7813

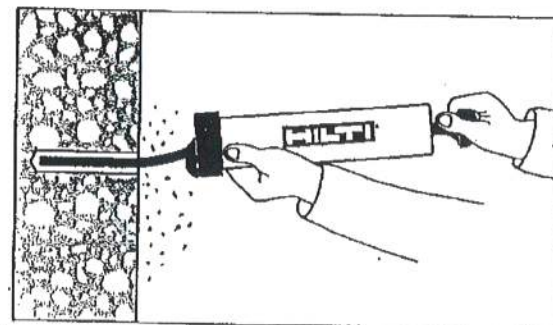
BETCO, Inc.
228 Commerce Blvd.
Statesville, NC 28625
Limited Engineering License # D-0140

PROJECT NAME: LAKESIDE STORAGE		PROJECT NO.: NC20153 - G	
PROJECT ADDRESS: ANGIER, NORTH CAROLINA		DRAWING NUMBER: S2 OF 3	
OWNER: IS NIELLS CREEK, LLC.		SHEET TITLE: FLOOR PLAN & NOTES BUILDING "G"	

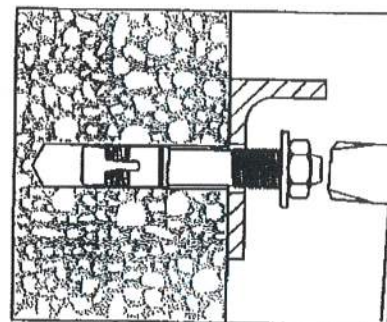
Kwik Bolt 3 Expansion Anchor Installation Instructions



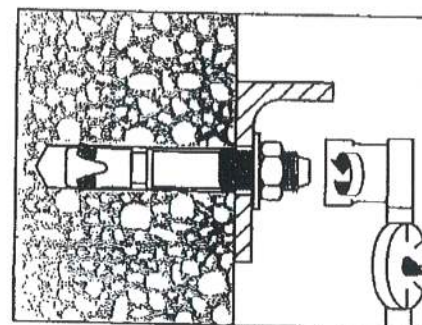
1. Hammer drill a hole to the same nominal diameter as the Kwik Bolt 3. The hole depth must exceed the anchor embedment by at least one diameter. The fixture may be used as a drilling template to ensure proper anchor location.



2. Clean hole.



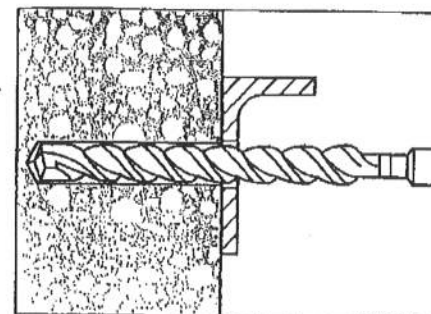
3. Drive the Kwik Bolt 3 into the hole using a hammer. The anchor must be driven until at least six threads are below the surface of the fixture.



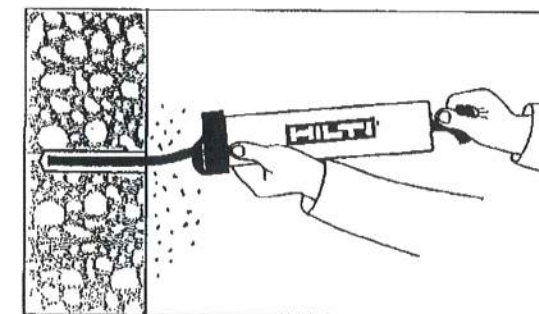
4. Tighten the nut to the recommended installation torque.

DESIGN INFORMATION	Units	Nominal Anchor Diameter				
		1/4	3/8	1/2	5/8	3/4
Installation torque	ft-lb	4	20	40	60	110
	(Nm)	(5)	(27)	(54)	(81)	(149)

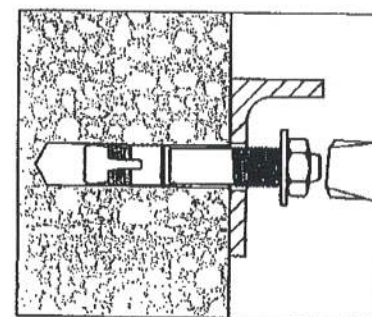
Kwik Bolt TZ Anchor Installation Instructions into normal-weight and lightweight concrete



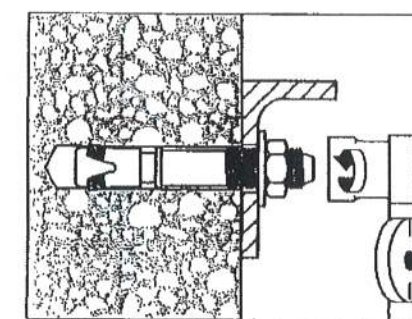
1. Hammer drill a hole to the same nominal diameter as the Kwik Bolt TZ. The hole depth must exceed the anchor embedment by at least 1/4 inch. The fixture may be used as a drilling template to ensure proper anchor location.



2. Clean hole.



3. Drive the Kwik Bolt TZ into the hole using a hammer. The anchor must be driven until at least 4 threads are below the surface of the fixture.



4. Tighten the nut to the recommended installation torque.

SETTING INFORMATION	Units	Nominal anchor diameter (in.)			
		3/8	1/2	5/8	3/4
Installation torque	ft-lb	25	40	60	110
	(Nm)	(34)	(54)	(81)	(149)

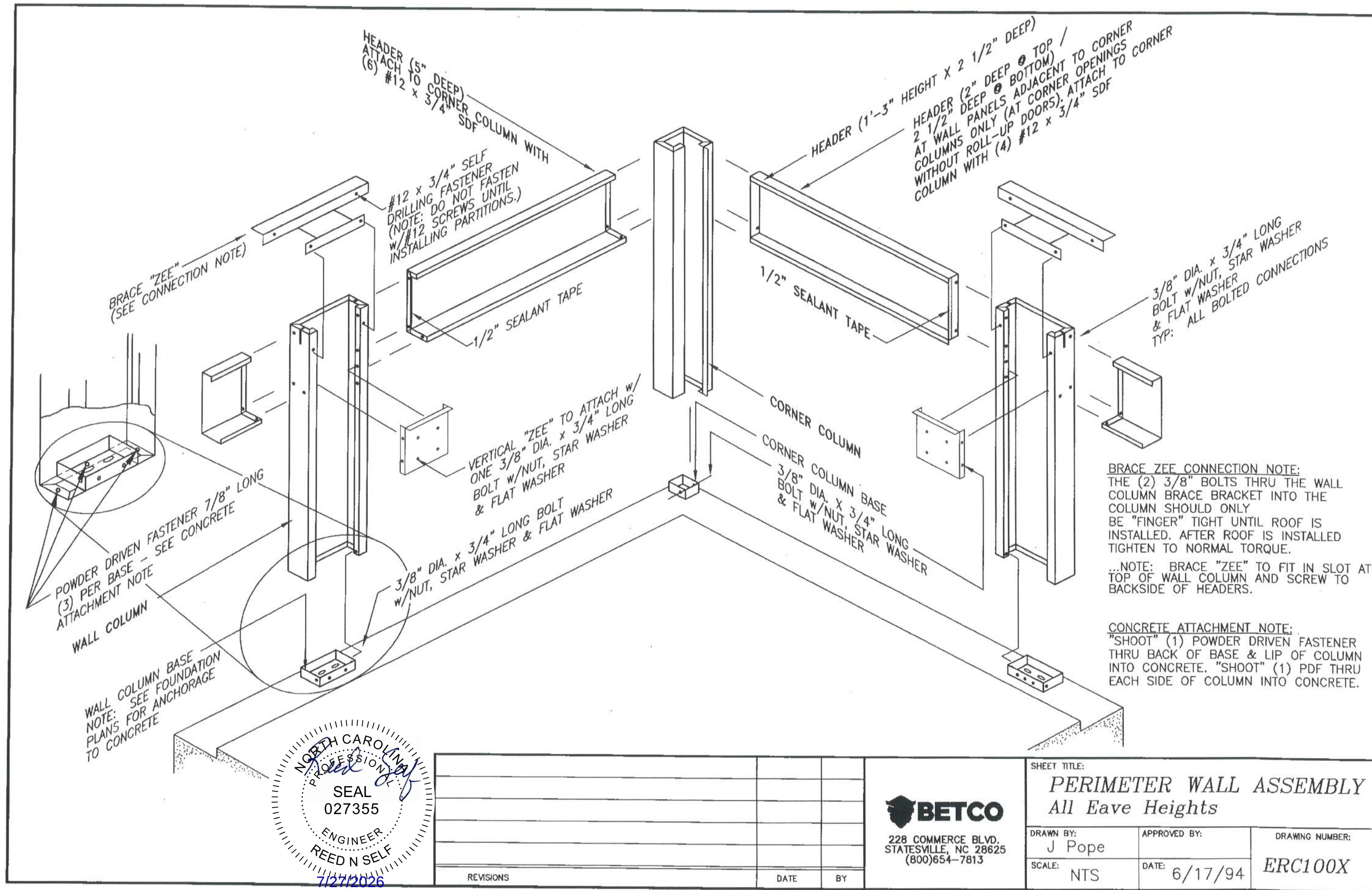


REVISIONS	DATE	BY



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SHEET TITLE: Kwik Bolt Anchor Installation Instructions		
DRAWN BY: BDL	APPROVED BY:	DRAWING NUMBER: ERC016X
SCALE: NTS	DATE: 11/8/2011	

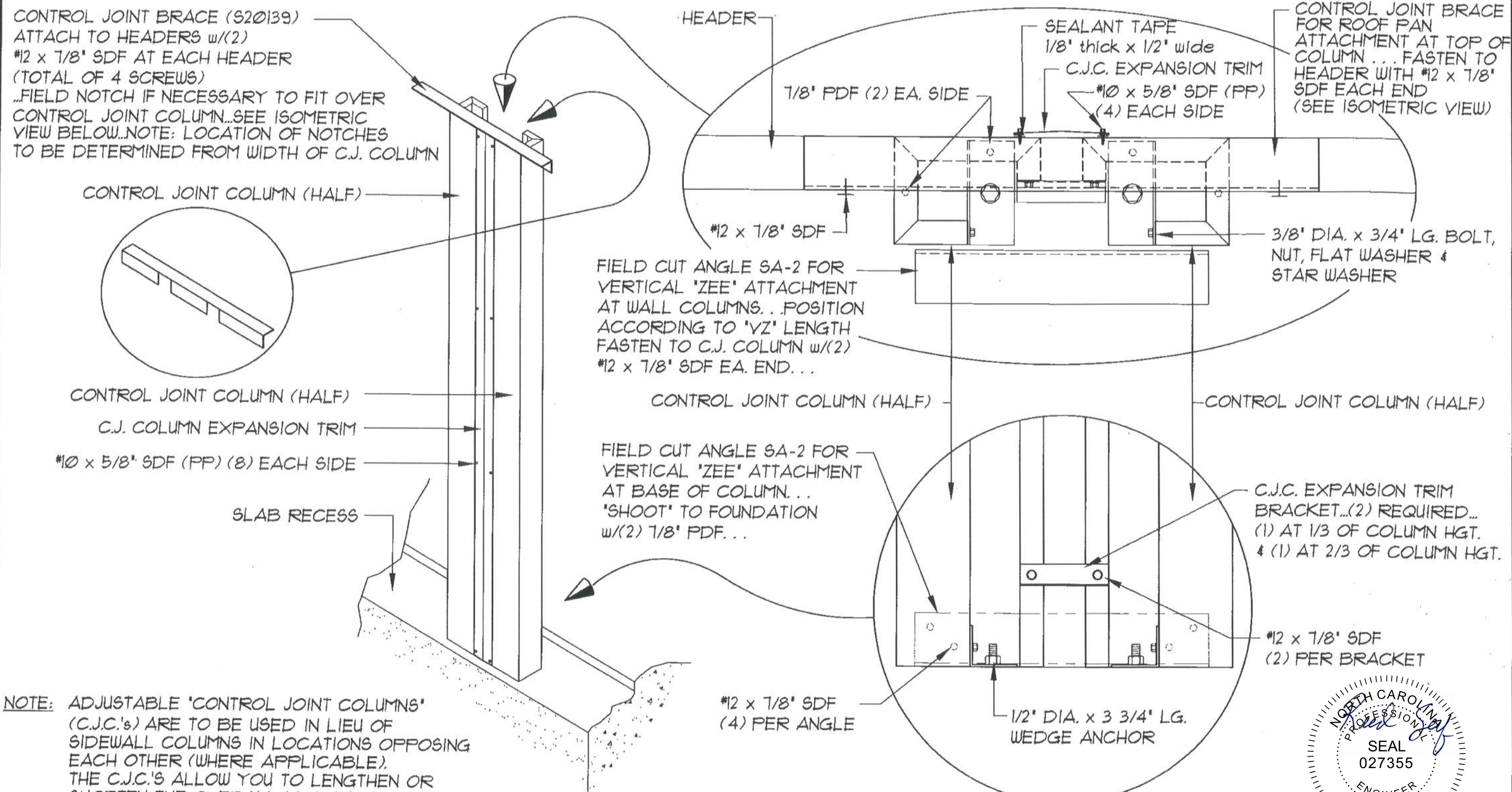


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7/27/2026

REVISIONS	DATE	BY

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SHEET TITLE: PERIMETER WALL ASSEMBLY <i>All Eave Heights</i>		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC100X
SCALE: NTS	DATE: 6/17/94	



NOTE: ADJUSTABLE 'CONTROL JOINT COLUMNS' (C.J.C.'s) ARE TO BE USED IN LIEU OF SIDEWALL COLUMNS IN LOCATIONS OPPOSING EACH OTHER (WHERE APPLICABLE). THE C.J.C.'S ALLOW YOU TO LENGTHEN OR SHORTEN THE OVERALL LENGTH OF THE BLDG. BY UP TO 2'. THIS GIVES YOU THE ABILITY TO MAKE ADJUSTMENTS FOR A SLAB THAT IS NOT EXACTLY THE DIMENSIONS SPECIFIED.

DO NOT INSTALL WEDGE ANCHORS IN C.J.C. LOCATIONS UNTIL COLUMNS ARE IN PLACE & ADJUSTED AS REQUIRED.

4	ADDED SDF'S TO CJC TRIM	11/15/05	JCM
3	CHANGED W/A LENGTH TO 3 3/4"	4/30/03	RSG
2	GENERAL REVISIONS	1/22/99	JAB
1	GENERAL REVISIONS	3-8-99	FOX
REVISIONS		DATE	BY



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STATESVILLE, NC 28625
(800)654-7813

SHEET TITLE:

**CONTROL JOINT COLUMN
AND TRIM INSTALLATION**

DRAWN BY:
K.D.W.

APPROVED BY:

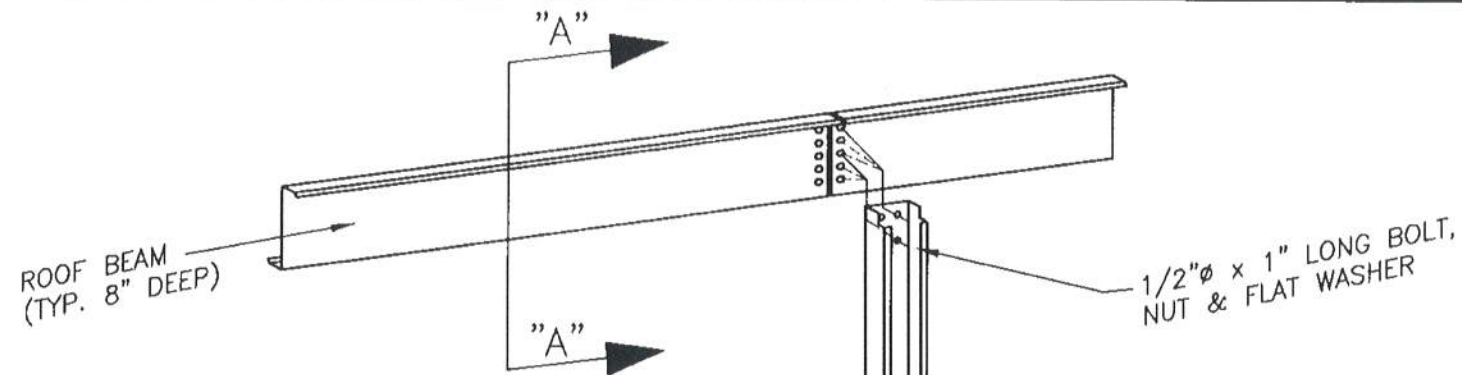
DRAWING NUMBER:

SCALE:
NTS

DATE:
8/1/94

ERC105X





INTERIOR COLUMN
3 5/8" x 3 5/8" x 17 GA

1/2"Ø x 1" LONG BOLT,
NUT & FLAT WASHER

1/2"Ø x 1" LONG BOLT,
NUT & FLAT WASHER -
(ROOF BEAM SIDE ONLY)

ROOF BEAM

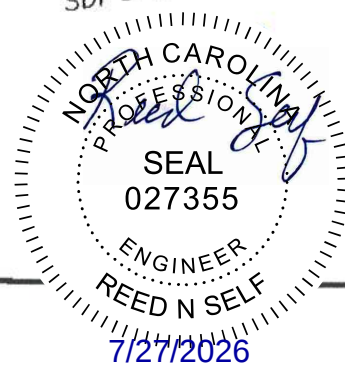
INTERIOR COLUMN

SECTION
"A" - "A"

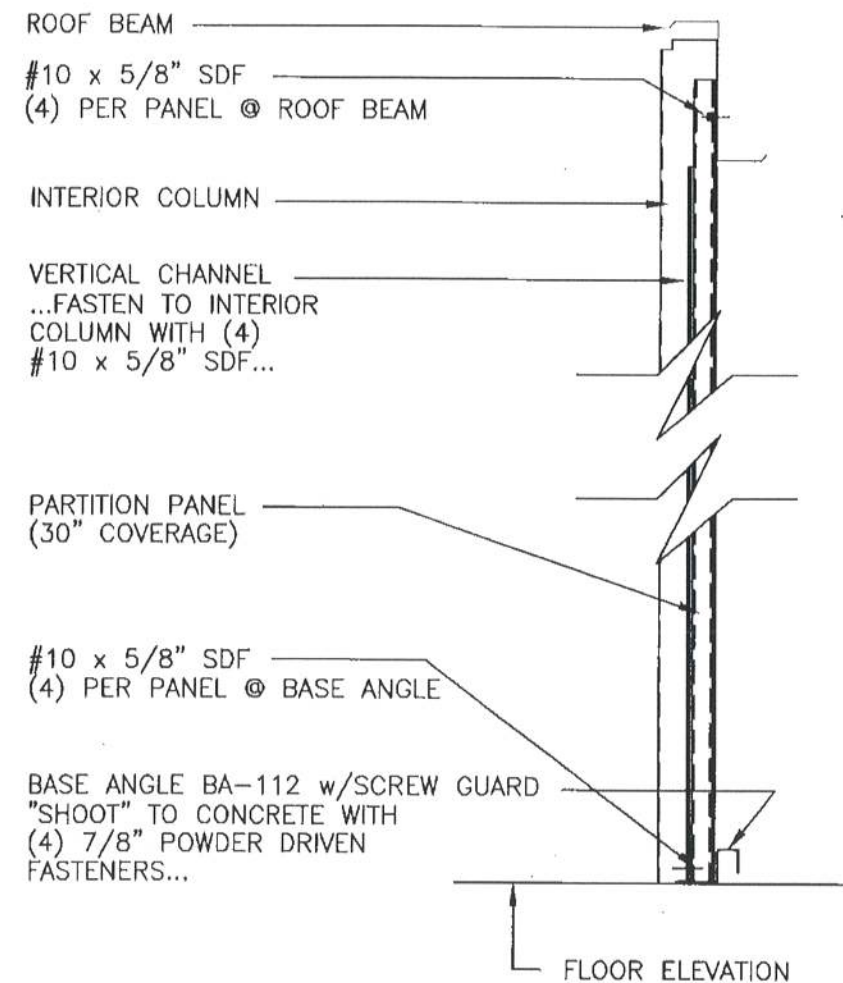
12ga. INTERIOR COLUMN BASE
(BASE TO BE FACTORY
INSTALLED INSIDE COLUMN
CAVITY w/ (2) #12 x 7/8"
SDF's ON THREE SIDES.)

12ga. INTERIOR COLUMN BASE PLATE
(INSTALLED WITH BASE AT FACTORY)

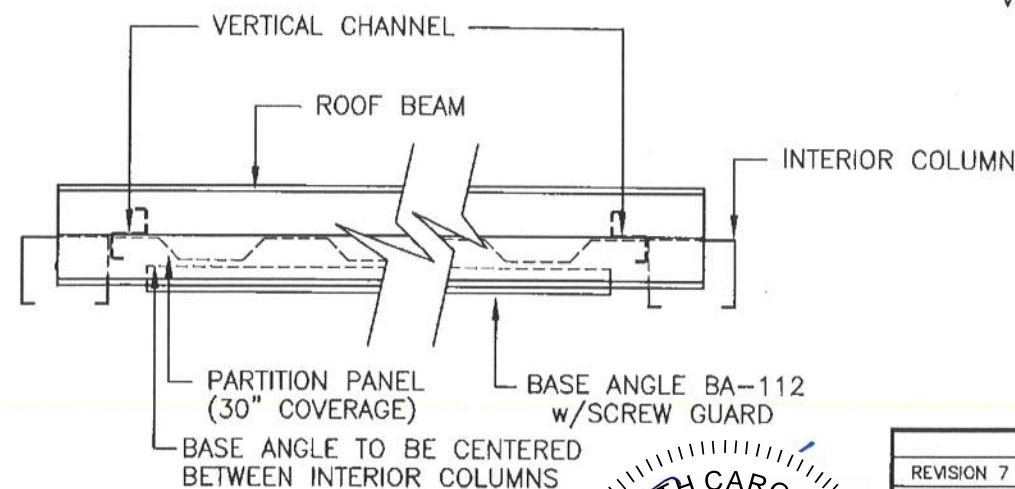
NOTE: SEE BUILDING CROSS SECTION
FOR COLUMN HEIGHT & ROOF BEAM HGT.
ABOVE FINISHED FLOOR



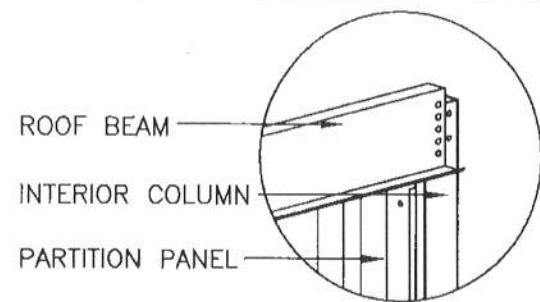
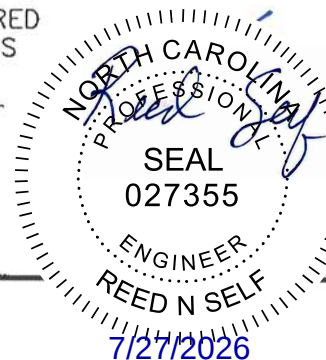
			 BETCO 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	SHEET TITLE: <i>Interior Column Installation All Heights</i>			
③	REVISED COLUMN SIZE	8-29-02		BAM	DRAWN BY: J POPE	APPROVED BY:	DRAWING NUMBER:
②	DETAIL REVISIONS	3-16-99		FOX	SCALE: NTS	DATE: 1/30/98	ERC110X
①	GENERAL REVISIONS	3-9-99		FOX			
REVISIONS		DATE		BY			



SECTION A-A



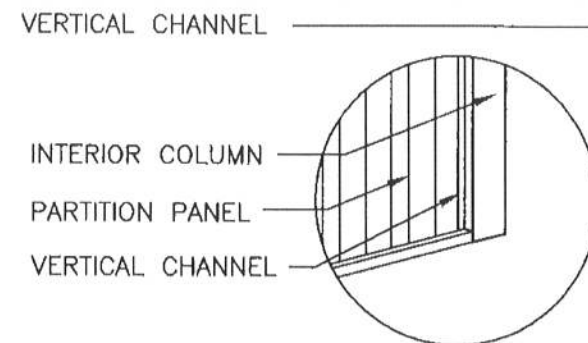
PLAN VIEW



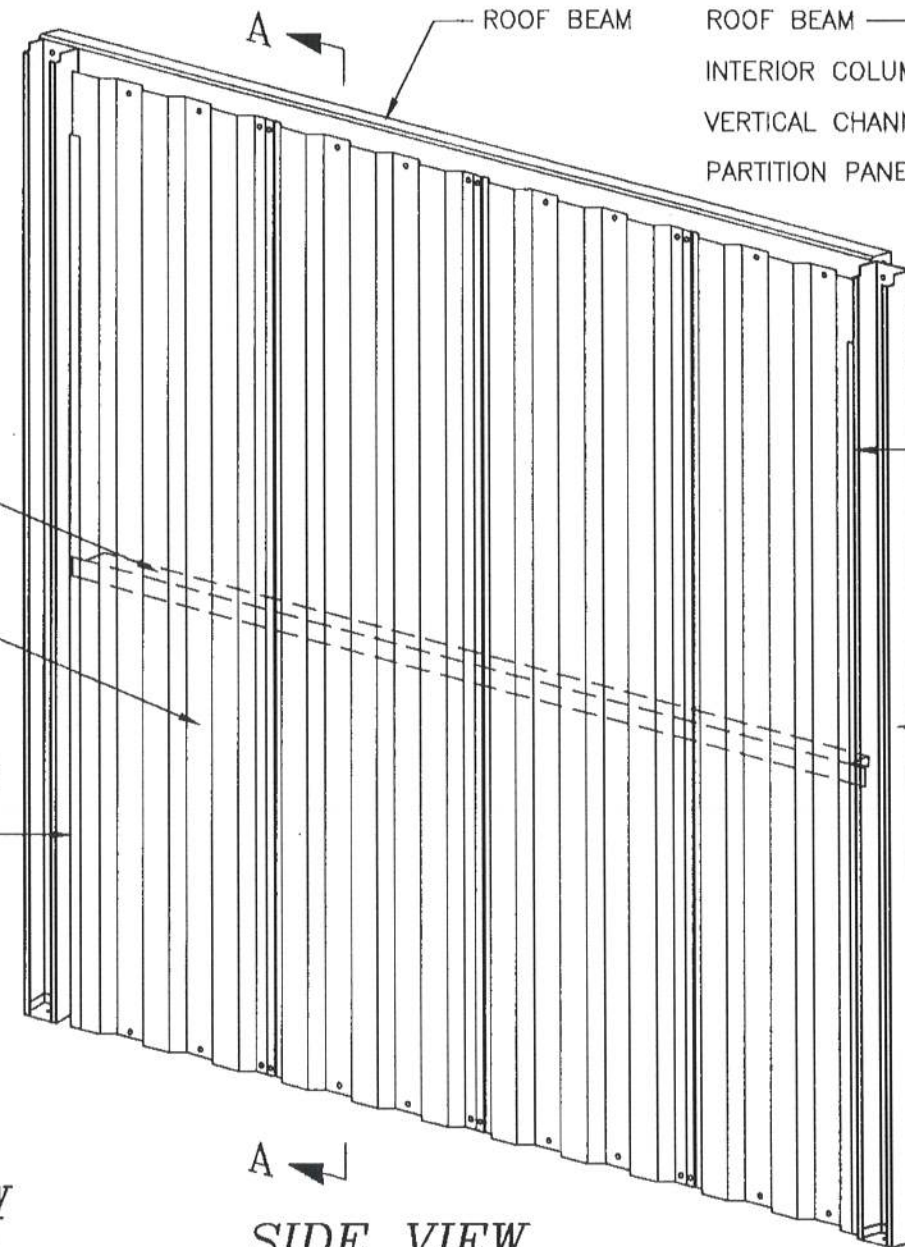
**OPPOSITE VIEW
THIS CORNER**

(NOTE: INSTALL A TOP CHANNEL AT 4-6" A.F.F. ONLY WHEN PANEL HEIGHT IS 9'-0" OR MORE.) (INSTALL FLANGES DOWN)

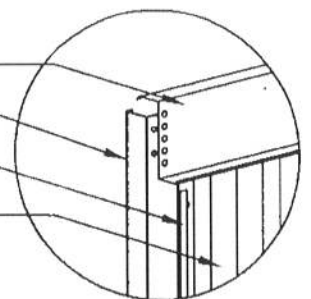
PARTITION PANEL (30" COVERAGE) FASTEN TO ROOF BEAM AND BASE ANGLE w/(4) #10 x 5/8" SDF EACH...(1) PER PAN SECTION AND (1) EACH SIDE OF LAP JOINT... FASTEN TO VERTICAL FRAMING w/(4) #10 x 5/8" SDF EACH -(SEE NOTE)



**OPPOSITE VIEW
THIS CORNER**

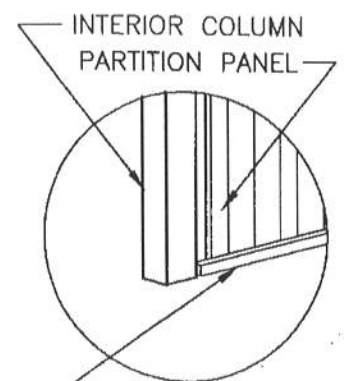


SIDE VIEW



**OPPOSITE VIEW
THIS CORNER**

VERTICAL CHANNEL FASTEN TO INTERIOR COLUMN WITH (4) #10 x 5/8" SDF (SEE NOTE)



**OPPOSITE VIEW
THIS CORNER**

NOTE:
THE FOUR (4) FASTENERS FOR ATTACHING PARTITION PANELS TO INTERIOR COLUMNS ARE INSTALLED AT THE TOP, BOTTOM AND AT THE 1/3 POINTS NOT TO EXCEED A 3'-0" VERTICAL SPACING BETWEEN FASTENERS.

REVISIONS	DATE	BY
REVISION 7	REVISED DIRECTION OF MID TOP CHANNEL	3/17/04 JCM
REVISION 6	REVISED INTERIOR COLUMNS	8/29/02 BAM
REVISION 5	ADDED TOP CHANNEL AT PANELS OVER 9'-0"	2/7/02 BDL
REVISION 4	ADDED NOTE FOR INTERIOR COLUMNS	3/30/01 TLR
REVISION 3	GENERAL REVISIONS	3-24-99 FOX
REVISION 2	CORRECT VC	6/23/98 CJG
REVISION 1		6/4/98 KLH

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SHEET TITLE: Partition - Interior Column to Interior Column		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC201X
SCALE: NTS	DATE: 6/20/94	

BRACE "ZEE"
 ...FASTEN TO WALL COLUMN w/(1)
 3/8"φ x 3/4" BOLT, NUT, STAR
 WASHER & FLAT WASHER EACH
 FLANGE...FASTEN TO HEADER w/(1)
 #12 x 7/8" SDF...

TOP CHANNEL TC-119.5
 SECURE TO TOP OF DOOR
 MOUNTING PLATE w/(1)
 #10 x 5/8" SDF...FASTEN TO INT.
 COLUMN w/(2) #10 x 5/8" SDF...

#10 x 5/8" SDF
 (4) PER PANEL @ TOP CHANNEL

DOOR MOUNTING PLATE
 ...FASTEN TO WALL COLUMN w/(2)
 3/8"φ x 3/4" BOLT, NUT, STAR
 WASHER & FLAT WASHER EACH FLANGE

VERTICAL "ZEE"
 ...FASTEN TO WALL COLUMN BASE
 AND TO DOOR MOUNTING BRACKET
 w/(1) 3/8"φ x 3/4" BOLT, NUT, STAR
 WASHER & FLAT WASHER EACH END...

WALL COLUMN

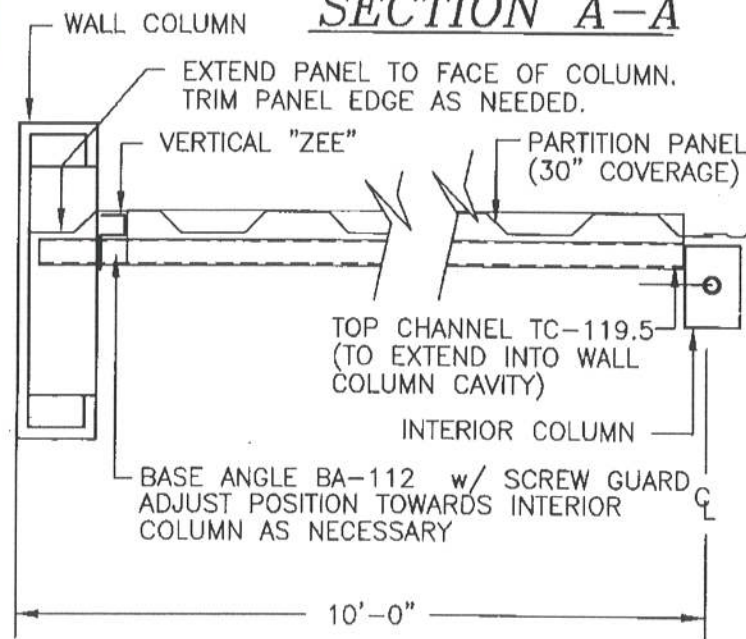
PARTITION PANEL
 (30" COVERAGE)

#10 x 5/8" SDF
 (4) PER PANEL @ BASE ANGLE

BASE ANGLE BA-112 w/SCREW GUARD
 "SHOOT" TO FOUNDATION
 w/(4) 7/8" POWDER
 DRIVEN FASTENERS...

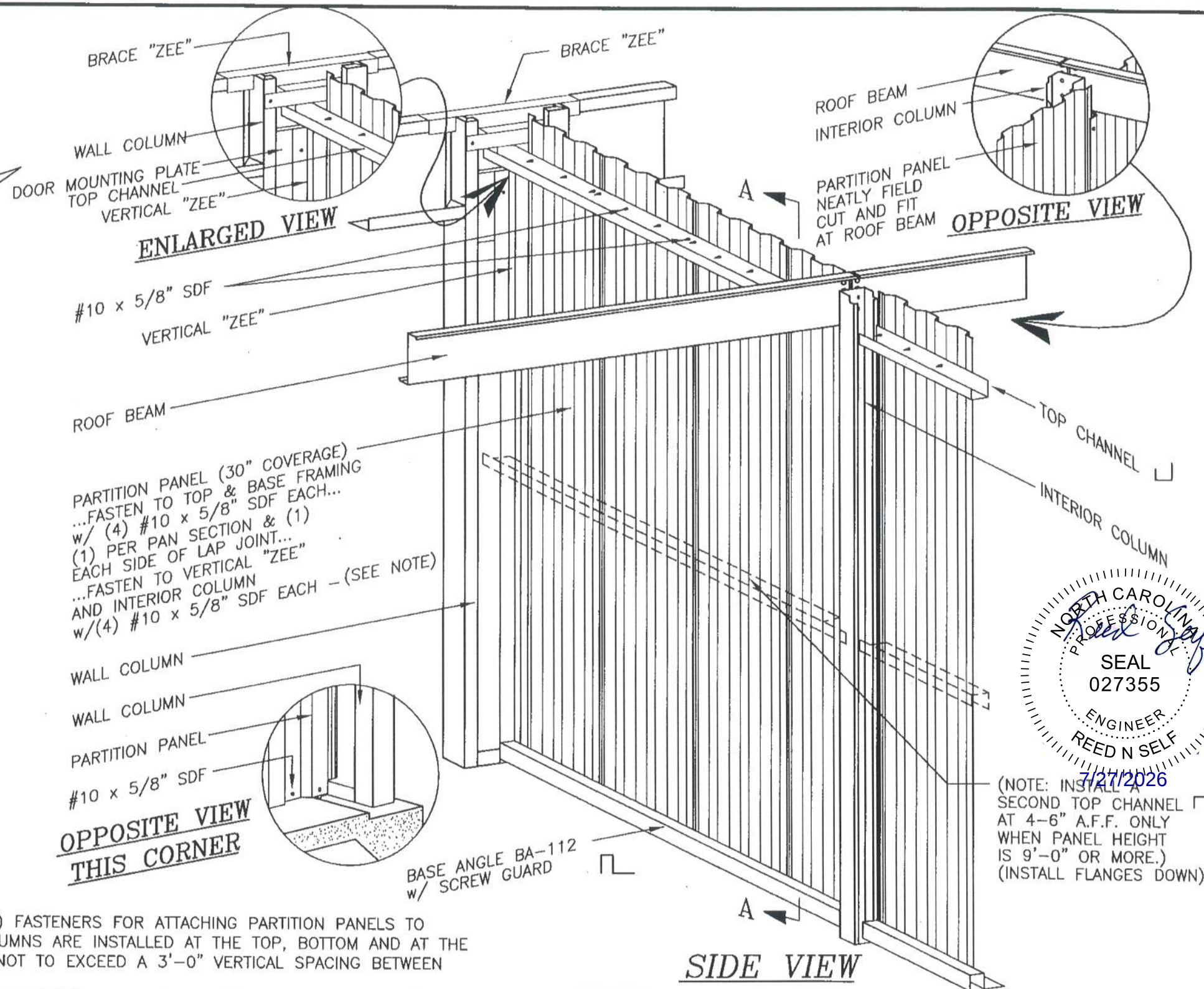
FLOOR ELEVATION
 THRESHOLD ELEVATION

SECTION A-A



PLAN VIEW

NOTE:
 THE FOUR (4) FASTENERS FOR ATTACHING PARTITION PANELS TO
 INTERIOR COLUMNS ARE INSTALLED AT THE TOP, BOTTOM AND AT THE
 1/3 POINTS NOT TO EXCEED A 3'-0" VERTICAL SPACING BETWEEN
 FASTENERS.



REVISED DIRECTION OF MID TOP CHANNEL	3/17/04	JCM
REVISED INTERIOR COLUMNS	8/29/02	BAM
ADDED TOP CHANNEL AT PANELS OVER 9'-0"	2/7/02	BDL
ADDED NOTE FOR INTERIOR COLUMNS	4/2/01	TLR
GENERAL REVISIONS	4/12/99	CWM
REVISIONS	DATE	BY



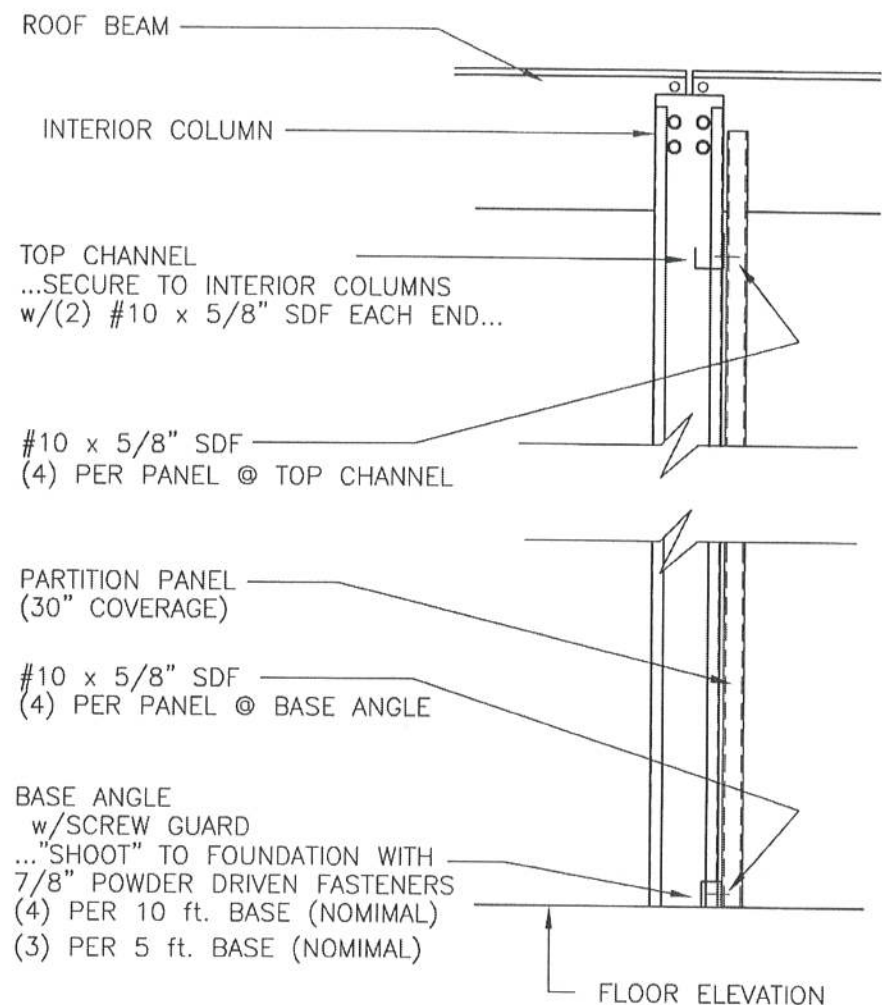
228 COMMERCE BLVD.
 STATESVILLE, NC 28625
 (800)654-7813

SHEET TITLE:
**Partition - Sidewall Column
 to Interior Column - 10' span**

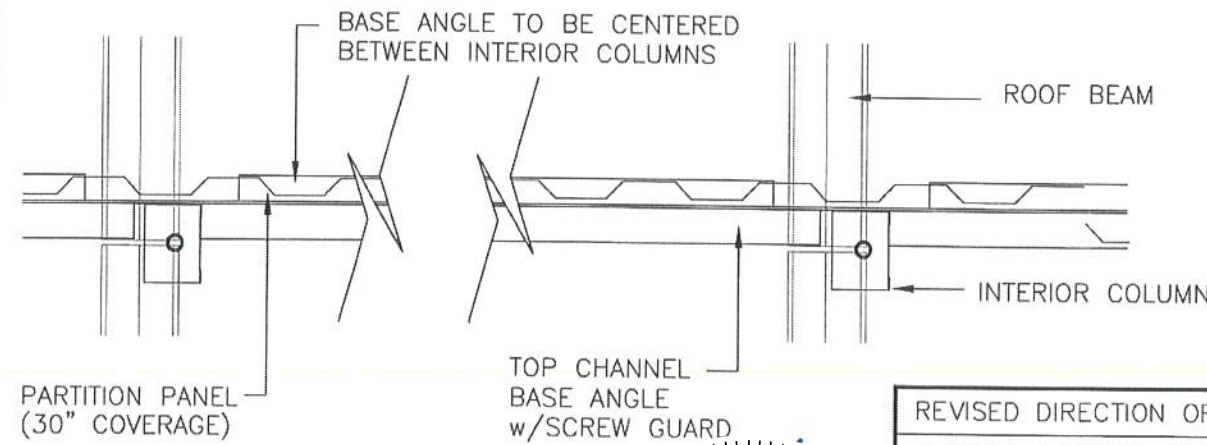
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC202X
SCALE: NTS	DATE: 6/20/94	



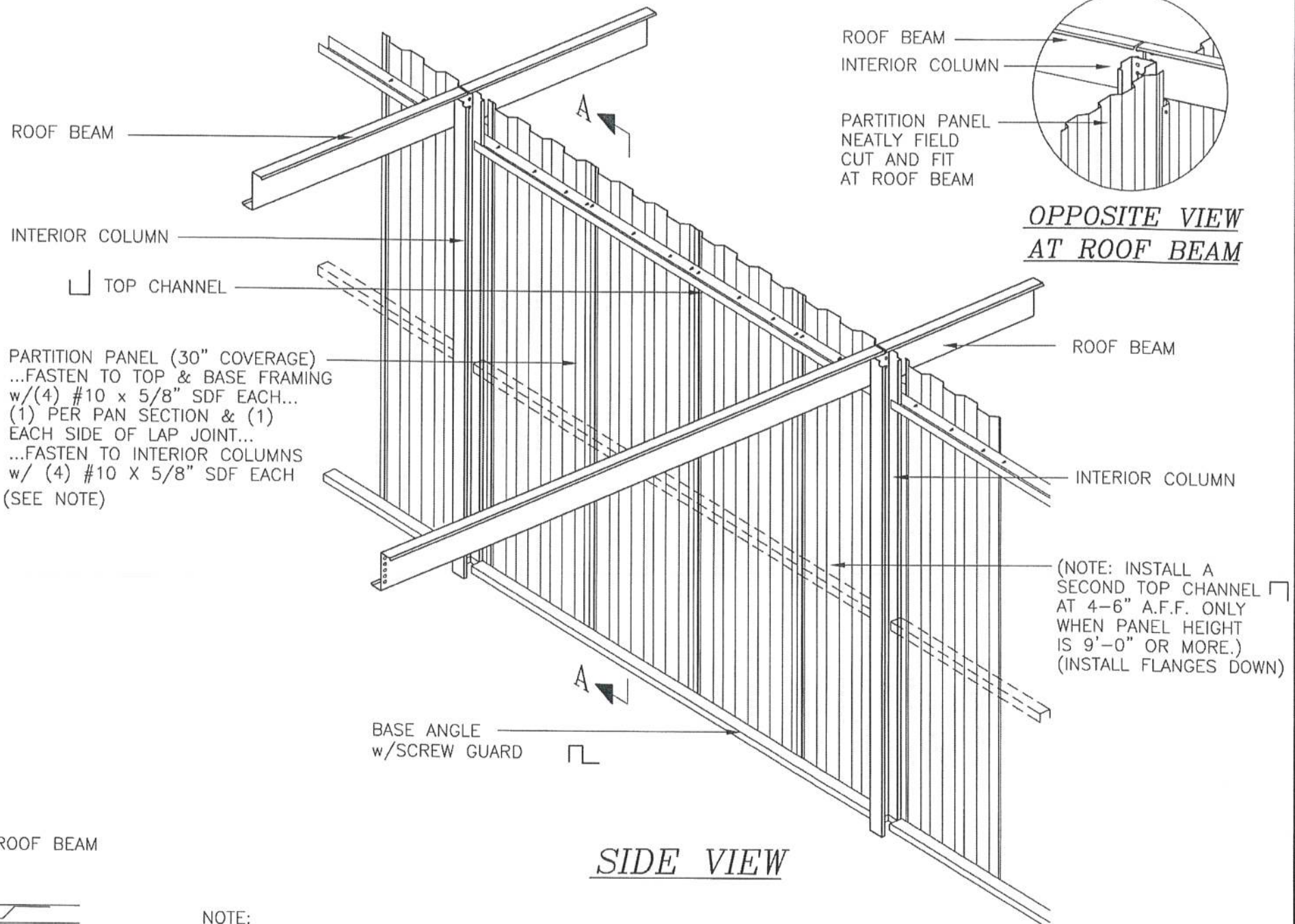
(NOTE: INSTALL A
 SECOND TOP CHANNEL
 AT 4'-6" A.F.F. ONLY
 WHEN PANEL HEIGHT
 IS 9'-0" OR MORE.)
 (INSTALL FLANGES DOWN)



SECTION A-A



PLAN VIEW

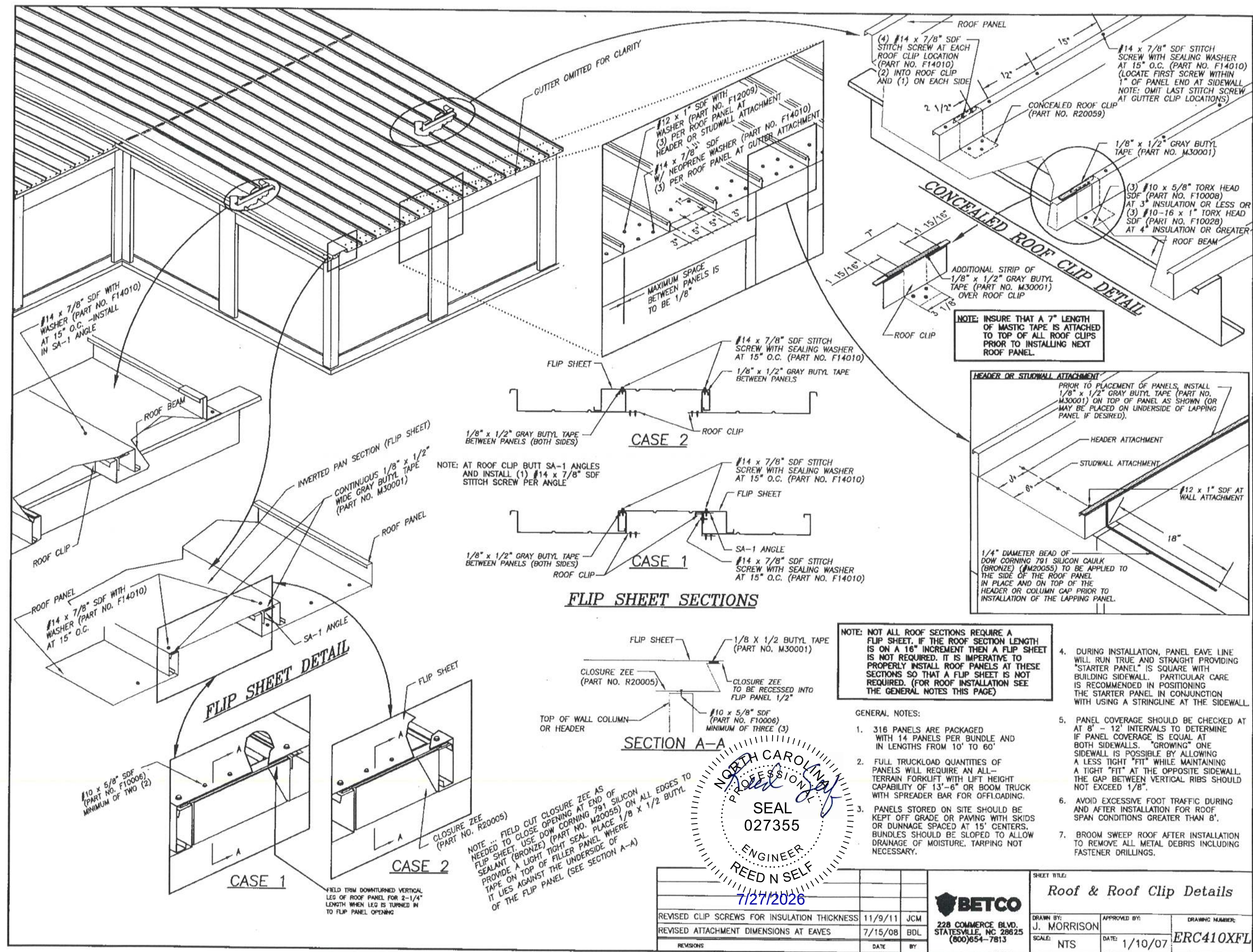


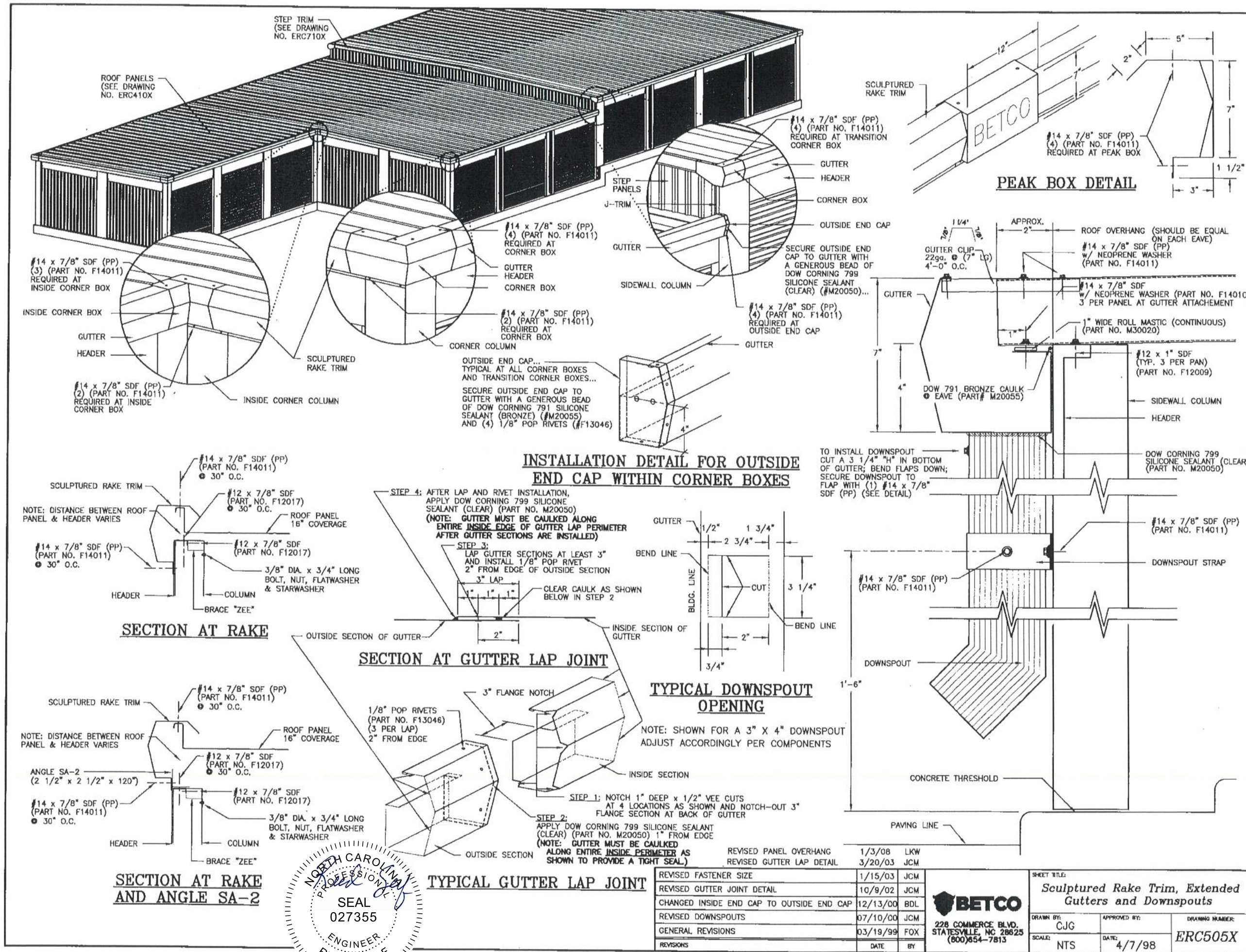
SIDE VIEW

NOTE:
THE FOUR (4) FASTENERS FOR ATTACHING PARTITION PANELS TO
INTERIOR COLUMNS ARE INSTALLED AT THE TOP, BOTTOM AND AT THE
1/3 POINTS NOT TO EXCEED A 3'-0" VERTICAL SPACING BETWEEN
FASTENERS.

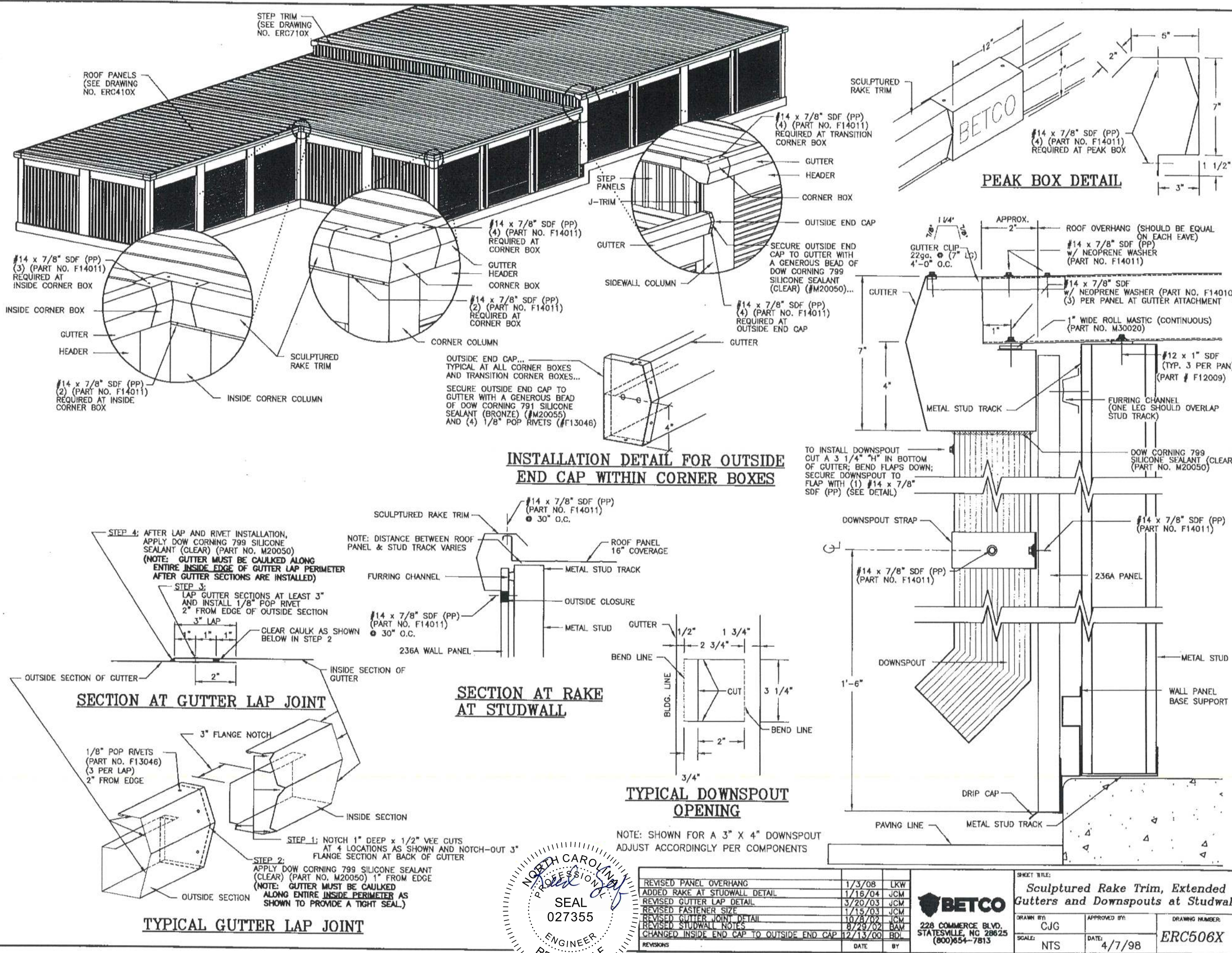


REVISED DIRECTION OF MID TOP CHANNEL	3/17/04	JCM	 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	SHEET TITLE: <i>Partition – Interior Column to Interior Column (all eave heights)</i>		
REVISED INTERIOR COLUMNS	8/29/02	BAM		DRAWN BY: J POPE	APPROVED BY:	DRAWING NUMBER:
ADDED TOP CHANNEL AT PANELS OVER 9'-0"	2/7/02	BDL		SCALE: NTS	DATE: 6/22/98	ERC203X
ADDED NOTE FOR INTERIOR COLUMNS	4/2/01	TLR				
GENERAL REVISIONS	5/7/99	CJG				
REVISIONS	DATE	BY				

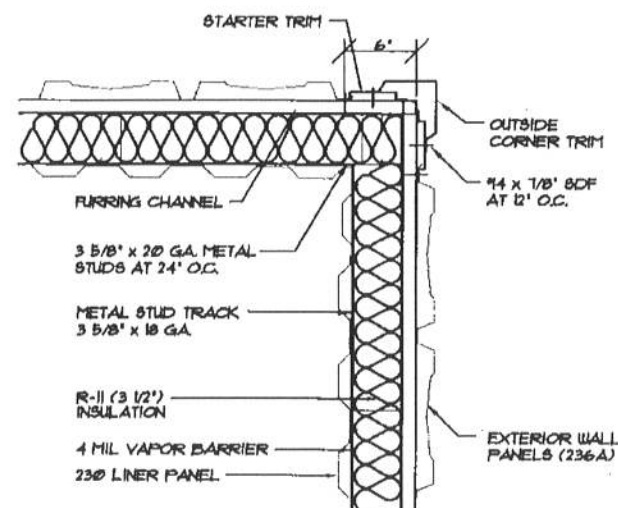




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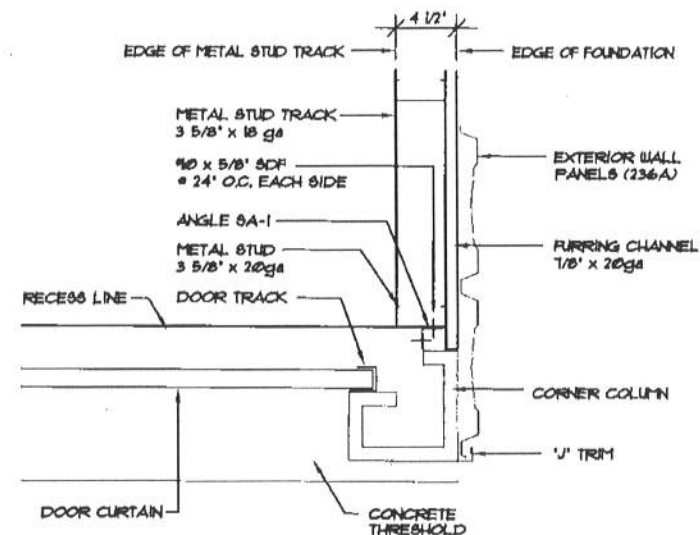


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7/27/2026



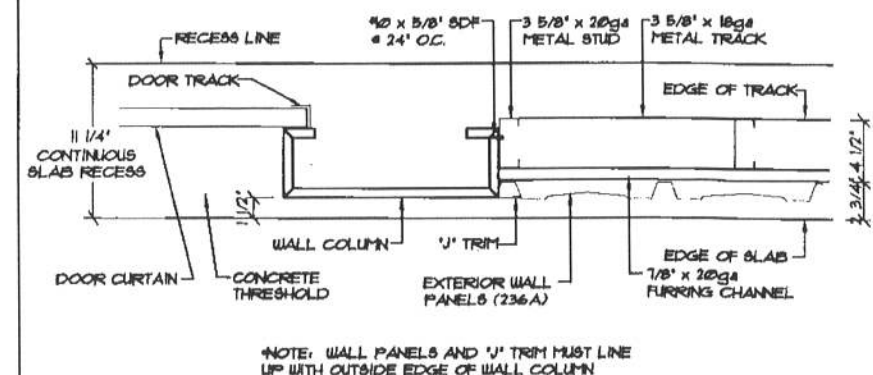
INSULATED STUDWALL CORNER DETAIL
NOT TO SCALE

A
600



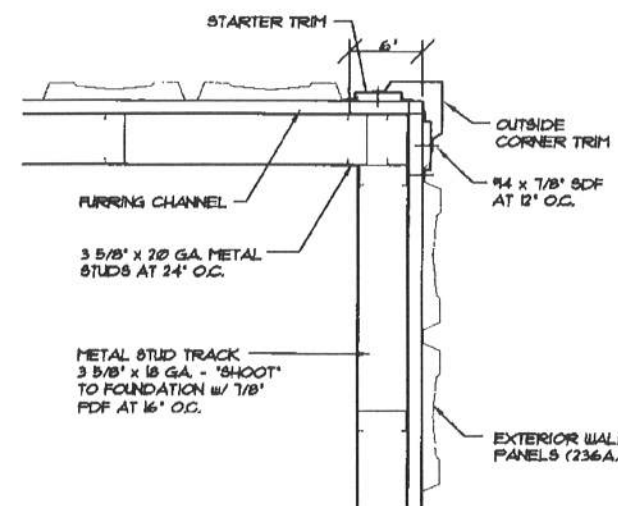
STUDWALL CONSTRUCTION @ CORNER COLUMN
NOT TO SCALE

C
600



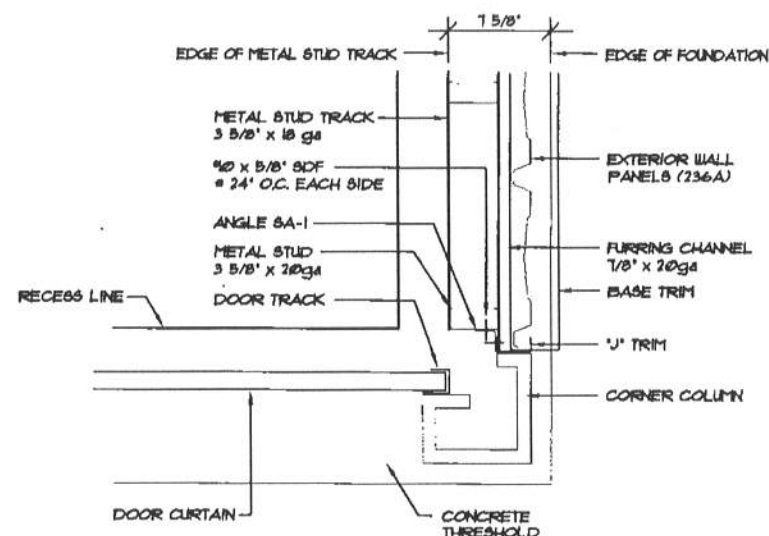
STUDWALL CONSTRUCTION @ WALL COLUMN IN RECESS
NOT TO SCALE

E
600



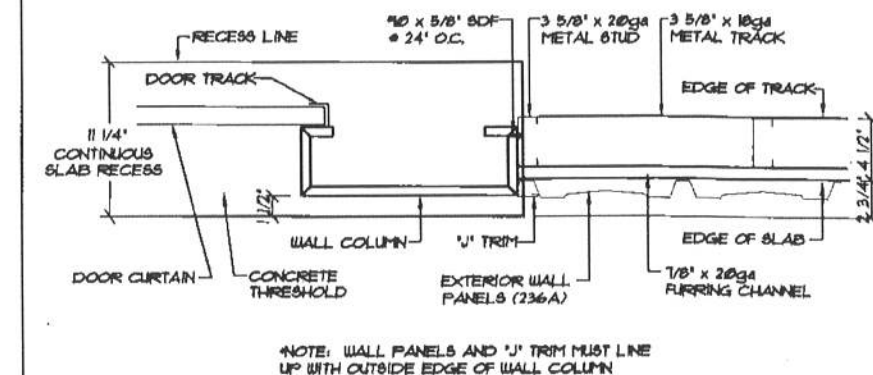
UNINSULATED STUDWALL CORNER DETAIL
NOT TO SCALE

B
600



STUDWALL CONSTRUCTION @ CORNER COLUMN W/ THRESHOLD
NOT TO SCALE

D
600



STUDWALL CONSTRUCTION @ WALL COLUMN
NOT TO SCALE

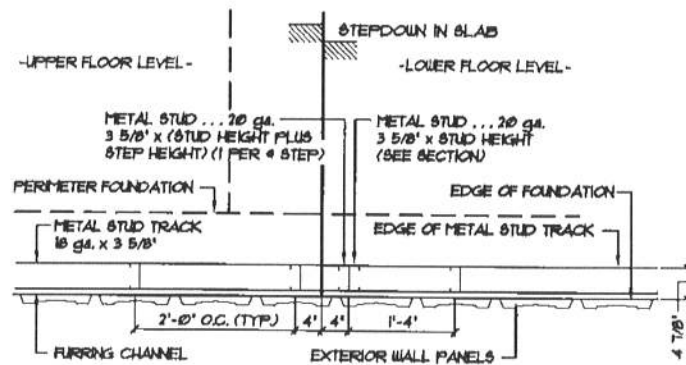
F
600



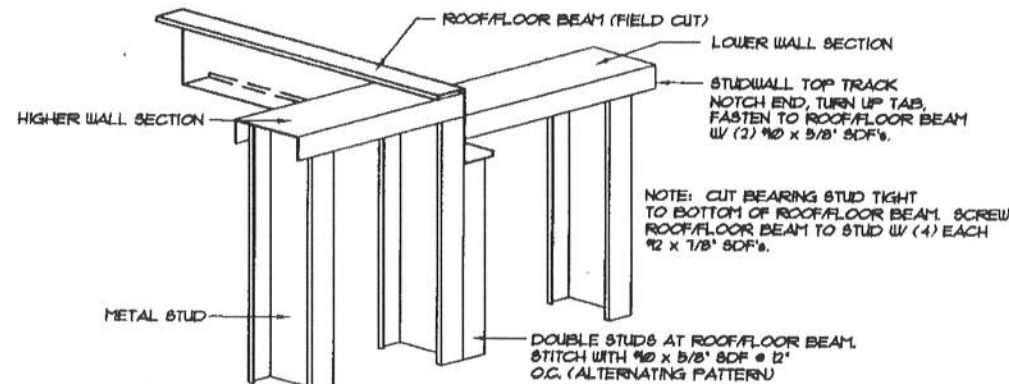
REVISIONS	DATE	BY
△ REVISED STUD SIZE	8/29/02	BAM

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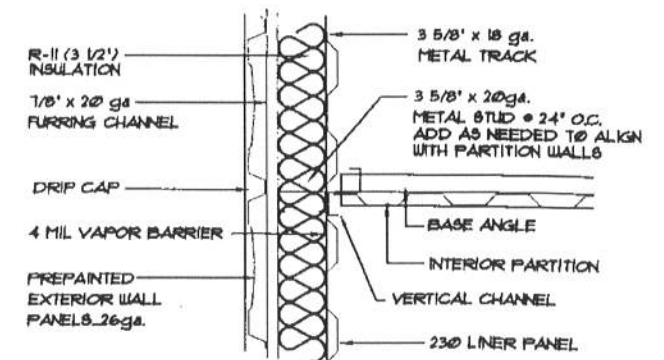
SHEET TITLE: Studwall Details		
DRAWN BY: CJG	APPROVED BY:	DRAWING NUMBER: ERC600X
SCALE: NTS	DATE: 4/14/00	



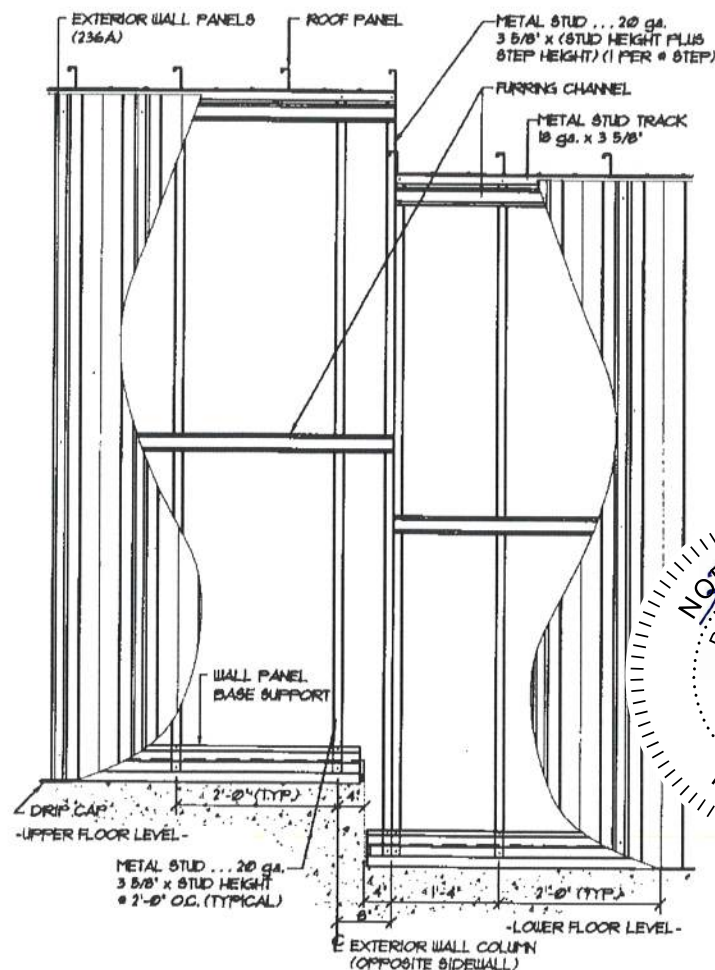
A PLAN VIEW OF STUDWALL
@ FLOOR STEPDOWN
NOT TO SCALE



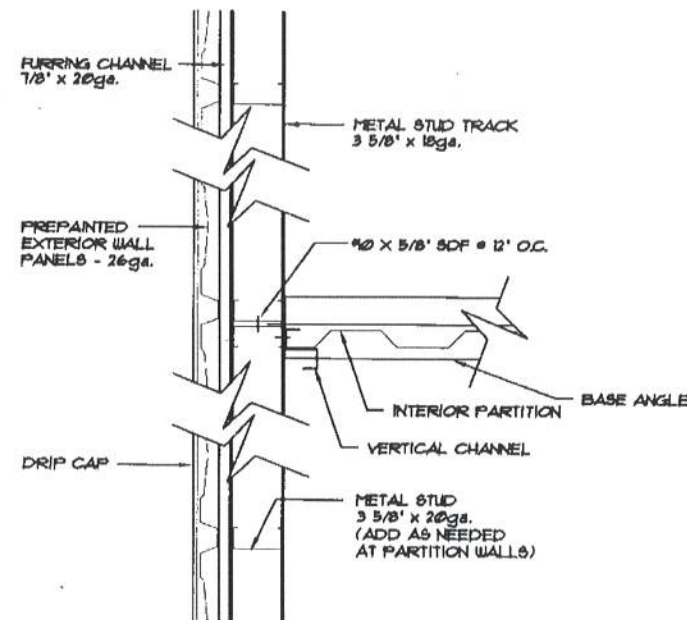
C ROOF/FLOOR BEAM @ STUDWALL
NOT TO SCALE



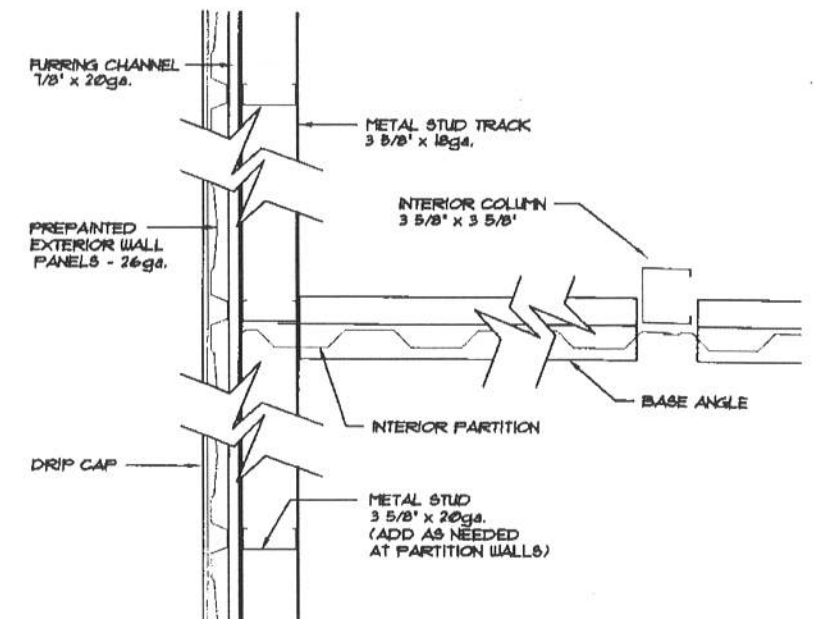
E PARTITION INSTALLATION AT
INSULATED EXTERIOR STUDWALL
NOT TO SCALE



B ELEVATION @ STUDWALL
AND STEPDOWN
NOT TO SCALE



D PARTITION INSTALLATION
UNDER ROOF BEAM
NOT TO SCALE



F PARTITION INSTALLATION
AT STUDWALL
NOT TO SCALE



REVISIONS	DATE	BY
3 REVISED C/601 TO INCLUDE FLOOR BEAM	5/1/03	JCM
2 REVISED C/601 TO INCLUDE FLOOR BEAM	4/17/03	JCM
1 REVISED STUD SIZE	8/29/02	BAM

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STATESVILLE, NC 28625
(800)654-7813

SHEET TITLE: Studwall Details		
DRAWN BY: CJG	APPROVED BY:	DRAWING NUMBER: ERC601X
SCALE: NTS	DATE: 4/14/00	

①. **EXTERIOR STUDWALL CONSTRUCTION • FLAT SLAB:**
(SEE ERC620X)
-3 5/8" METAL STUDS @ 24" O.C. - 20ga
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
-2 OR 3 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-WALL PANEL BASE SUPPORT
-DRIP CAP (#T60120)
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
*230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL
TO BASE & TOP TRACK WITH 4 EACH #10 x 5/8" SDF's)
*J-TRIM @ TOP OF LINER PANELS
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

②. **EXTERIOR STUDWALL CONSTRUCTION • RECESS:**
(SEE ERC620X)
-3 5/8" METAL STUDS @ 24" O.C. - 20ga
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
-3 OR 4 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-BASE TRIM (#T60593)
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
*230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL
TO BASE & TOP TRACK WITH 4 EACH #10 x 5/8" SDF's)
*J-TRIM @ TOP OF LINER PANELS
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

③. **INSULATED LOAD BEARING STUDWALL:**
-3 5/8" METAL STUDS @ 24" O.C. - 20ga
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
-3 1/2" THICK FIBERGLASS INSULATION
-4 MIL POLYETHYLENE VAPOR BARRIER
-230 LINER PANELS (EACH SIDE-ATTACH EACH PANEL TO
TOP & BASE TRACK WITH 4 EACH #10 x 5/8" SDF's)
-J-TRIM @ TOP OF LINER PANELS
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

④. **INSULATED NON-LOAD BEARING STUDWALL:**
-3 5/8" METAL STUDS @ 24" O.C. - 20ga
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 20ga.
(ATTACH BASE TRACK TO CONCRETE FLOOR SLAB
WITH 7/8" PDF's @ 24" O.C.)
-3 1/2" THICK FIBERGLASS INSULATION
-4 MIL POLYETHYLENE VAPOR BARRIER
-230 LINER PANELS (EACH SIDE-ATTACH EACH PANEL TO
TOP & BASE TRACK WITH 4 EACH #10 x 5/8" SDF's)
-J-TRIM @ TOP OF LINER PANELS
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑤. **EXTERIOR STUDWALL CONSTRUCTION • HVAC**
INSET/ALCOVE: (ERC 620X & 624X)
-3 5/8" METAL STUDS @ 24" O.C. - 20ga
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
-3 OR 4 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-DRIP CAP (#T50032)
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
*230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL
TO BASE & TOP TRACK WITH 4 EACH #10 x 5/8" SDF's)
*J-TRIM @ TOP OF LINER PANELS
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑥. **FIRE RESISTANT PARTITION ... 1 HOUR RATED**
UL • U465 ... (NON-LOAD BEARING)
ONE HOUR FIREWALL CONSTRUCTION:
-3 5/8" METAL STUDS @ 24" O.C. - 20ga.
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 20ga
(TOP TRACK MUST FOLLOW SLOPE OF ROOF DECK)
(SECURE BOTTOM TRACK W/ 7/8" PDF'S AT 24" O.C.)
-5/8" GYPSUM BOARD (X-RATED) EACH SIDE IT MUST
BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL.
-GYPSUM BOARD SHALL BE ATTACHED TO STUDS, FLOOR
AND CEILING TRACK USING TYPE "S" SELF-TAPPING SCREWS
ALONG EDGES OF BOARD SPACED 8" O.C. AND 12" O.C. IN THE FIELD.
-VINYL OR CASE-IN, DRY OR PRE-MIXED JOINT COMPOUND APPLIED IN
TWO COATS TO JOINTS SCREW-HEADS. PERFORATED PAPER TAPE, 2"
WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑦. **FIRE RESISTANT PARTITION ... 1 HOUR RATED**
UL • U425 ... (LOAD BEARING)
ONE HOUR FIREWALL CONSTRUCTION:
-3 5/8" METAL STUDS @ 24" O.C. - 20ga.
-3 5/8" CONTINUOUS FLOOR & CEILING TRACK - 18ga - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
(TOP TRACK MUST FOLLOW SLOPE OF ROOF DECK)
-5/8" GYPSUM BOARD (X-RATED) EACH SIDE IT MUST
BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL.
-GYPSUM BOARD SHALL BE ATTACHED TO STUDS,
FLOOR AND CEILING TRACK USING TYPE "S"
SELF-TAPPING SCREWS ALONG EDGES OF BOARD
SPACED 8" O.C. AND 12" O.C. IN THE FIELD.
-VINYL OR CASE-IN, DRY OR PRE-MIXED JOINT
COMPOUND APPLIED IN TWO COATS TO JOINTS
SCREW-HEADS. PERFORATED PAPER TAPE, 2" WIDE,
EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL
JOINTS.
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑧. **EXTERIOR FIRE RESISTANT PARTITION ...**
-UL • U423 ... (1 HOUR RATED) (LOAD BEARING)
ONE HOUR FIREWALL CONSTRUCTION:
-3 5/8" METAL STUDS @ 24" O.C. - 20ga.
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
(TOP TRACK MUST FOLLOW SLOPE OF ROOF DECK)
-2 OR 3 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-WALL PANEL BASE SUPPORT
-DRIP CAP (#T60120)
-1 LAYER 5/8" GYPSUM BOARD (X-RATED) EACH SIDE IT MUST
BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL.
-GYPSUM BOARD SHALL BE ATTACHED TO STUDS,
FLOOR AND CEILING TRACK USING TYPE "S"
SELF-TAPPING SCREWS ALONG EDGES OF BOARD
SPACED 8" O.C. AND 12" O.C. IN THE FIELD.
-VINYL OR CASE-IN, DRY OR PRE-MIXED JOINT
COMPOUND APPLIED IN TWO COATS TO JOINTS
SCREW-HEADS. PERFORATED PAPER TAPE, 2" WIDE,
EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL
JOINTS.
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑨. **EXTERIOR FIRE RESISTANT PARTITIONS • RECESS:**
UL • U423 ... (1 HOUR RATED) (LOAD BEARING)
ONE HOUR FIREWALL CONSTRUCTION:
-3 5/8" METAL STUDS @ 24" O.C. - 20ga.
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
(TOP TRACK MUST FOLLOW SLOPE OF ROOF DECK)
-3 OR 4 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-DRIP CAP (#T60593)
-1 LAYER 5/8" GYPSUM BOARD (X-RATED) EACH SIDE IT MUST
BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL.
-GYPSUM BOARD SHALL BE ATTACHED TO STUDS, FLOOR
AND CEILING TRACK USING TYPE "S" SELF-TAPPING SCREWS
ALONG EDGES OF BOARD SPACED 8" O.C. AND 12" O.C. IN THE FIELD.
-VINYL OR CASE-IN, DRY OR PRE-MIXED JOINT COMPOUND APPLIED IN
TWO COATS TO JOINTS SCREW-HEADS. PERFORATED PAPER TAPE, 2"
WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

⑩. **EXTERIOR FIRE RESISTANT PARTITION • HVAC INSET/ALCOVE**
UL • 423 ... (1 HOUR RATED) (LOAD BEARING) (ERC 620X & 621X)
ONE HOUR FIREWALL CONSTRUCTION:
-3 5/8" METAL STUDS @ 24" O.C. - 20ga.
-3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN w/
3/8" x 3" WEDGE ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
(TOP TRACK MUST FOLLOW SLOPE OF ROOF DECK)
-3 OR 4 ROWS CONTINUOUS 20ga. FURRING CHANNELS (NOTE #2)
-PRE-PAINTED EXTERIOR 236A WALL PANELS
-DRIP CAP (#T50032)
-1 LAYER 5/8" GYPSUM BOARD (X-RATED) EACH SIDE IT MUST
BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL.
-GYPSUM BOARD SHALL BE ATTACHED TO STUDS, FLOOR
AND CEILING TRACK USING TYPE "S" SELF-TAPPING SCREWS
ALONG EDGES OF BOARD SPACED 8" O.C. AND 12" O.C. IN THE FIELD.
-VINYL OR CASE-IN, DRY OR PRE-MIXED JOINT COMPOUND APPLIED IN
TWO COATS TO JOINTS SCREW-HEADS. PERFORATED PAPER TAPE, 2"
WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
*3 1/2" THICK FIBERGLASS INSULATION
*4 MIL POLYETHYLENE VAPOR BARRIER
-SEE NOTE #4 FOR GENERAL STUDWALL CONSTRUCTION NOTES.

NOTE #1: INTENTIONALLY BLANK.

NOTE #2: AS PER WALL CONSTRUCTION NOTES, EXTERIOR STUDWALLS
ARE CONSTRUCTED WITH "X" OR "Y" ROWS OF FURRING
CHANNELS IF WALL IS LESS THAN 9'-10 1/2" HGT. A.F.F.,
CONSTRUCT WITH "X" ROWS; OTHERWISE USE "Y".

NOTE #3: "*" ON THIS SHEET, REFERS TO THE ADDITIONAL MATERIALS
REQUIRED FOR INSULATION OF WALL SYSTEM.
NOT ALL WALLS ARE INSULATED. VERIFY WITH FLOOR PLANS.
INSTALL INSULATION & RELATED MATERIALS ONLY IN WALLS
DESIGNATED WITH AN "*" BESIDE THE DETAIL NUMBER ON
THE FLOOR PLAN.

NOTE #4: GENERAL STUDWALL CONSTRUCTION:
A) - ATTACH STUDS WITH #10 X 5/8" SDF'S EACH SIDE
OF TRACK (4 PER STUD).
B) - WALLS MUST EXTEND FROM FLOOR TO ROOF DECK
AND INTO WALL COLUMN CAVITY.
C) - TOP TRACK MUST FOLLOW SLOPE OF ROOF LINE.

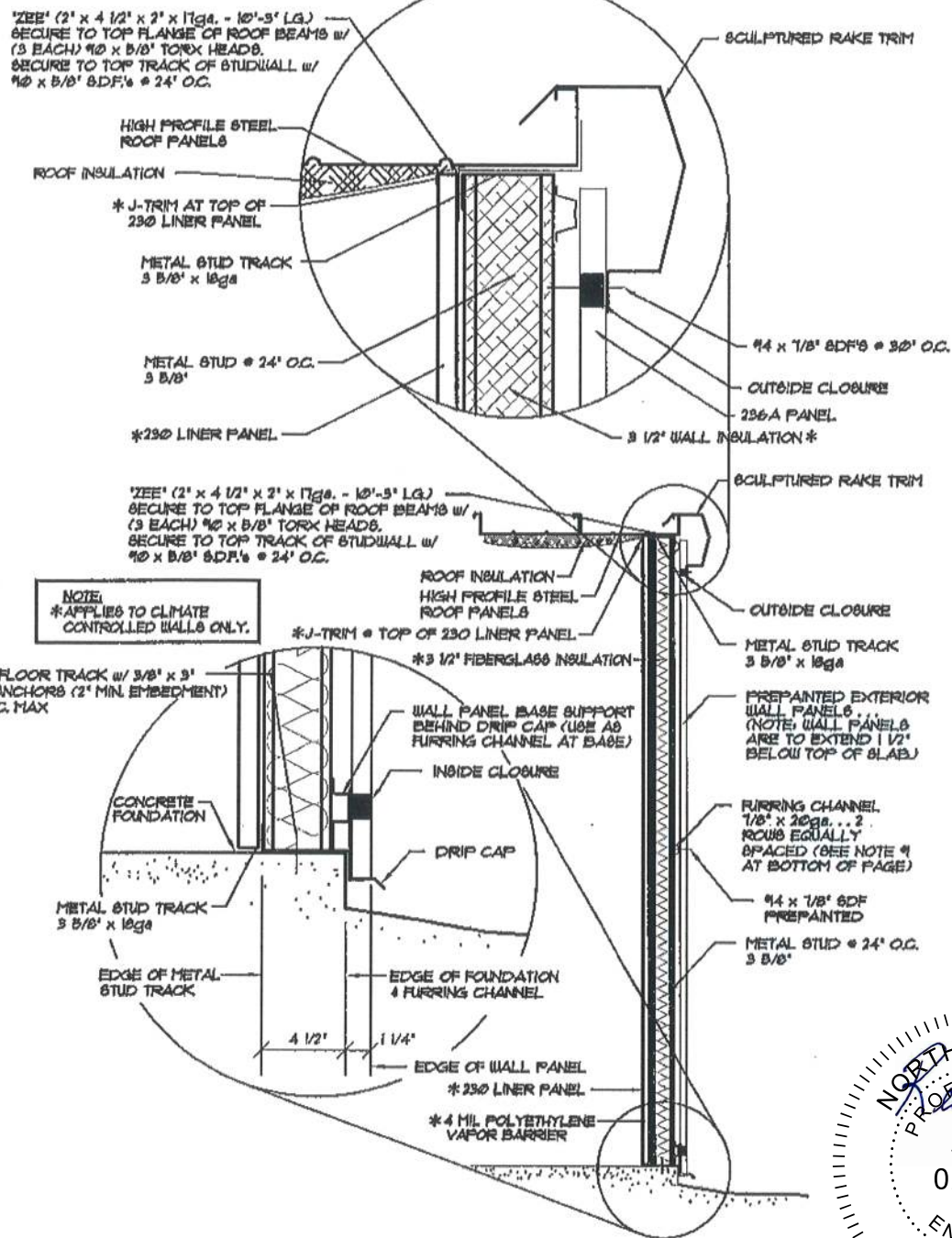


7/27/2026

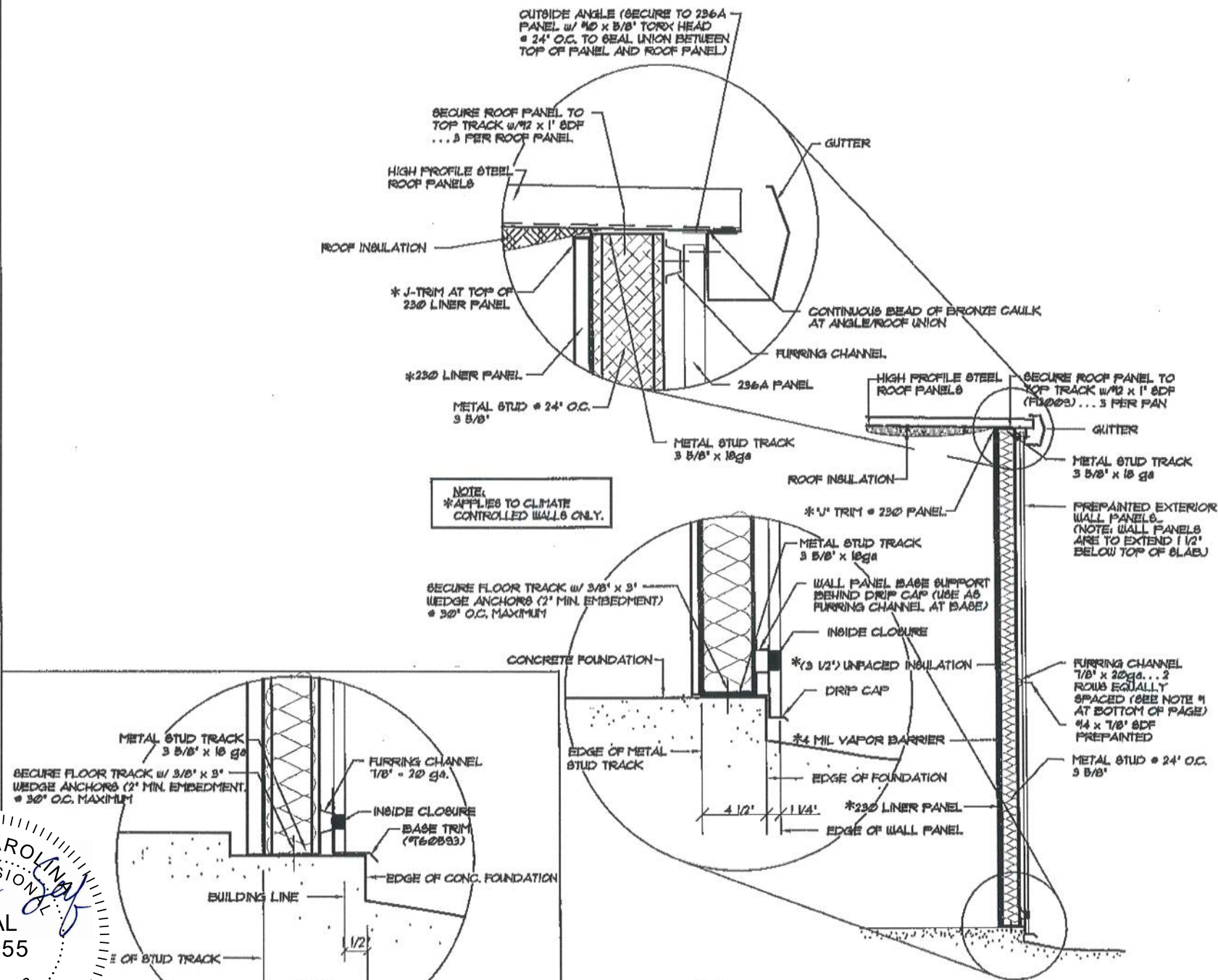
REVISED STUD TRACK FASTENERS TO CONCRETE	9/24/10	JCM
REVISED STUD TRACK FASTENERS	1/12/04	JCM
REVISED STUD SIZE	8/29/02	BAM
REVISE LAYERS, GYPSUM BOARD THICKNESS & UL ON NOTES #8, 9, 10	11/16/01	JRB
ADDED ERC 620X & 621X TO NOTE #10	08/28/01	JCM
CHANGED 5/8" TO (2 LAYERS 1/2")	02/21/01	DSF
REVISIONS	DATE	BY

BETCO
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STATESVILLE, NC 28625
(800)654-7813

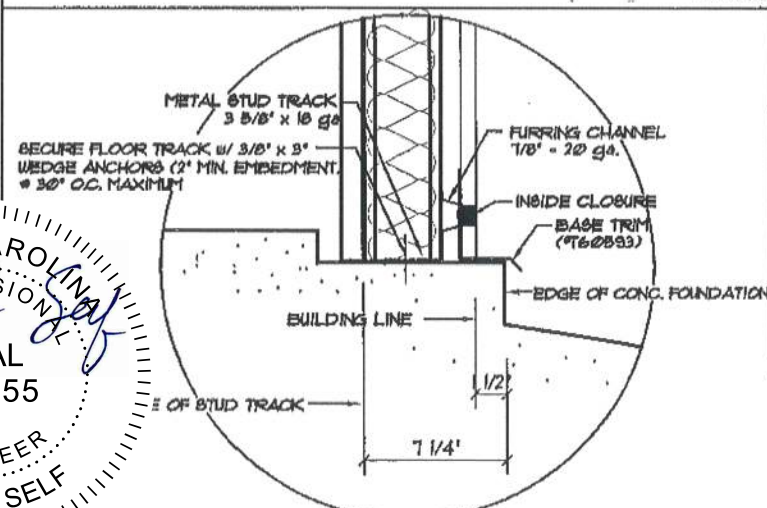
SHEET TITLE: Studwall Notes		
DRAWN BY: RS	APPROVED BY:	DRAWING NUMBER: ERC610X
SCALE: NTS	DATE: 11/02/00	



A
630
**SECTION AT EXTERIOR
STUDWALL ENDWALL**
NOT TO SCALE



B
630
**SECTION AT EXTERIOR
STUDWALL SIDEWALL**
NOT TO SCALE



**BASE CONDITION FOR
STUDWALL IN RECESS**



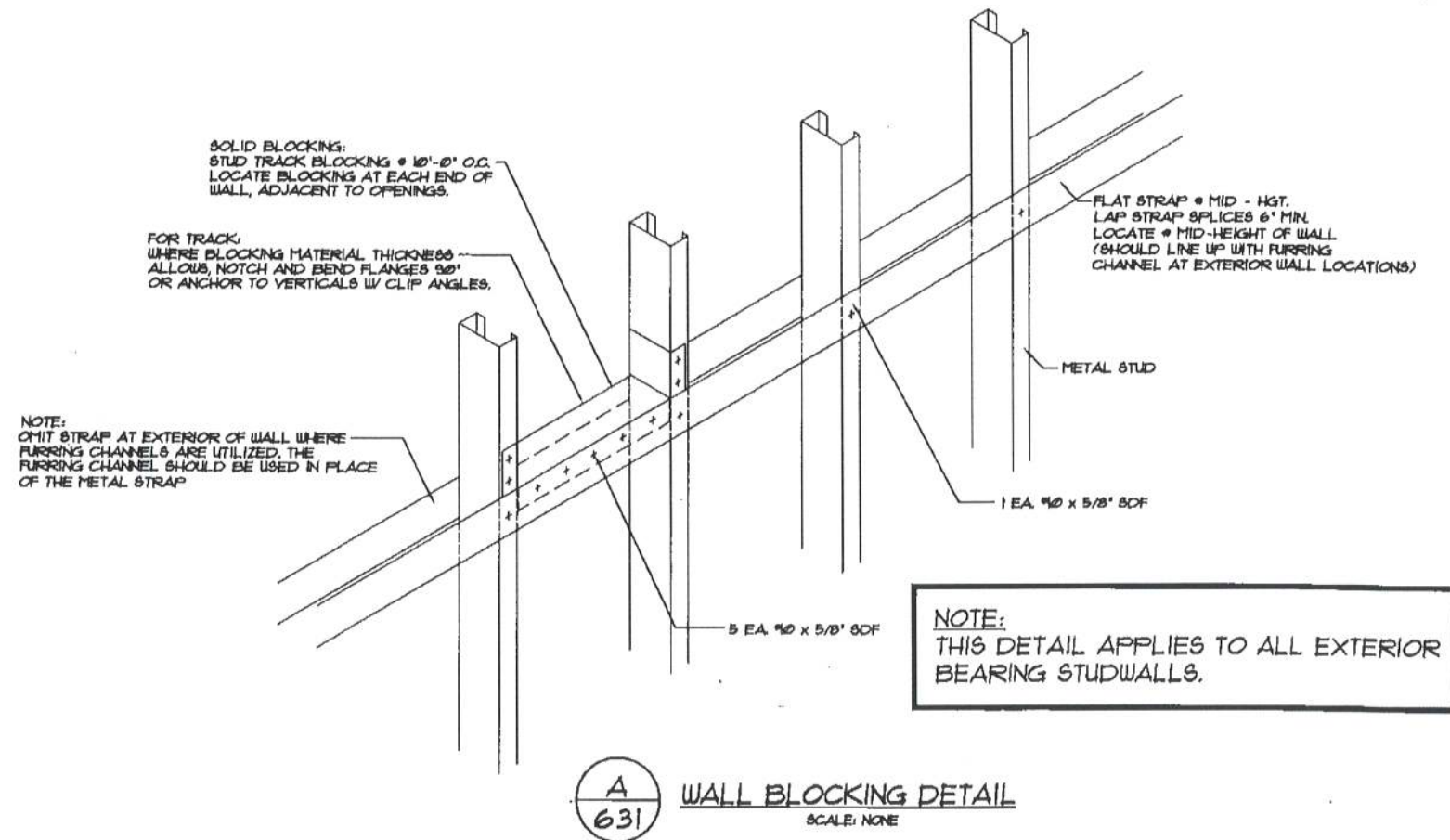
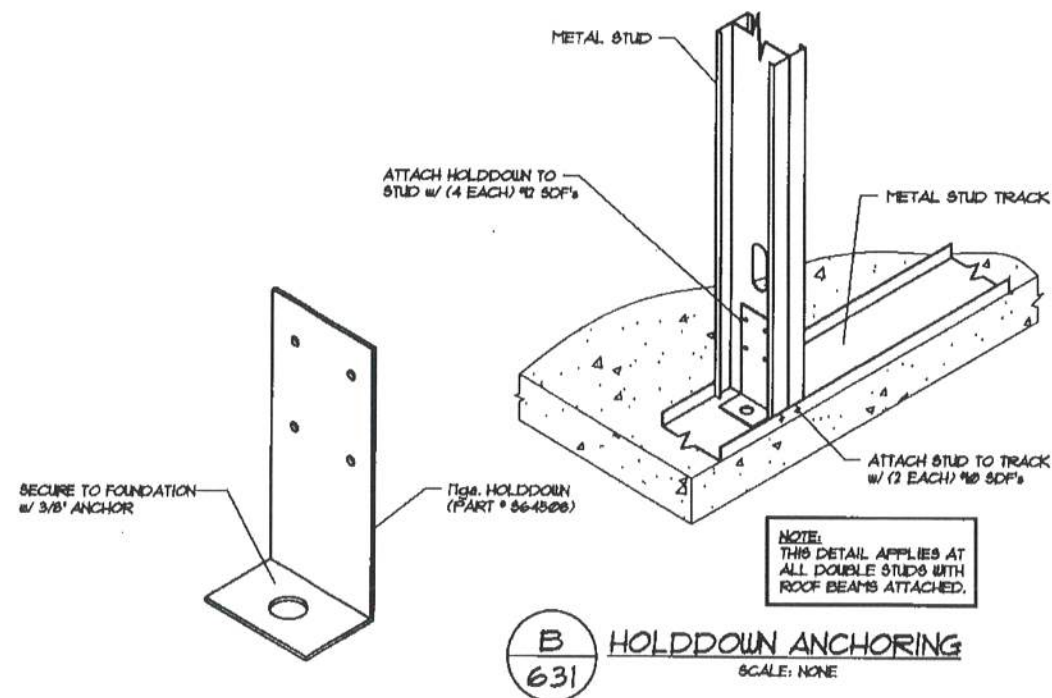
NOTE #1: IF STUDWALL IS GREATER THAN OR EQUAL TO 9'-10 1/2" HGT. 2 EQUALLY SPACED ROWS OF INTERMEDIATE FURRING CHANNELS ARE REQUIRED BETWEEN BASE AND TOP OF STUDWALL.

NOTE #2: NOT ALL BUILDINGS HAVE ROOF INSULATION, CHECK CROSS SECTION FOR INSULATION.

REVISED ENDWALL ZEE FROM 5 3/4' TO 4 1/2'	5/24/23	BDL
REVISIONS	DATE	BY

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228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800)654-7813

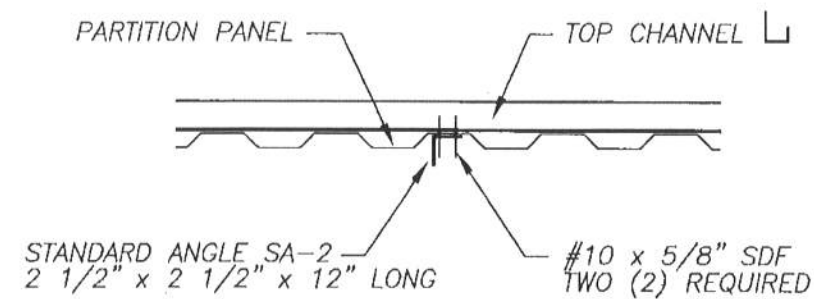
SHEET TITLE: Studwall Sections		
DRAWN BY: JCM	APPROVED BY:	DRAWING NUMBER: ERC630X
SCALE: NTS	DATE: 11/8/11	



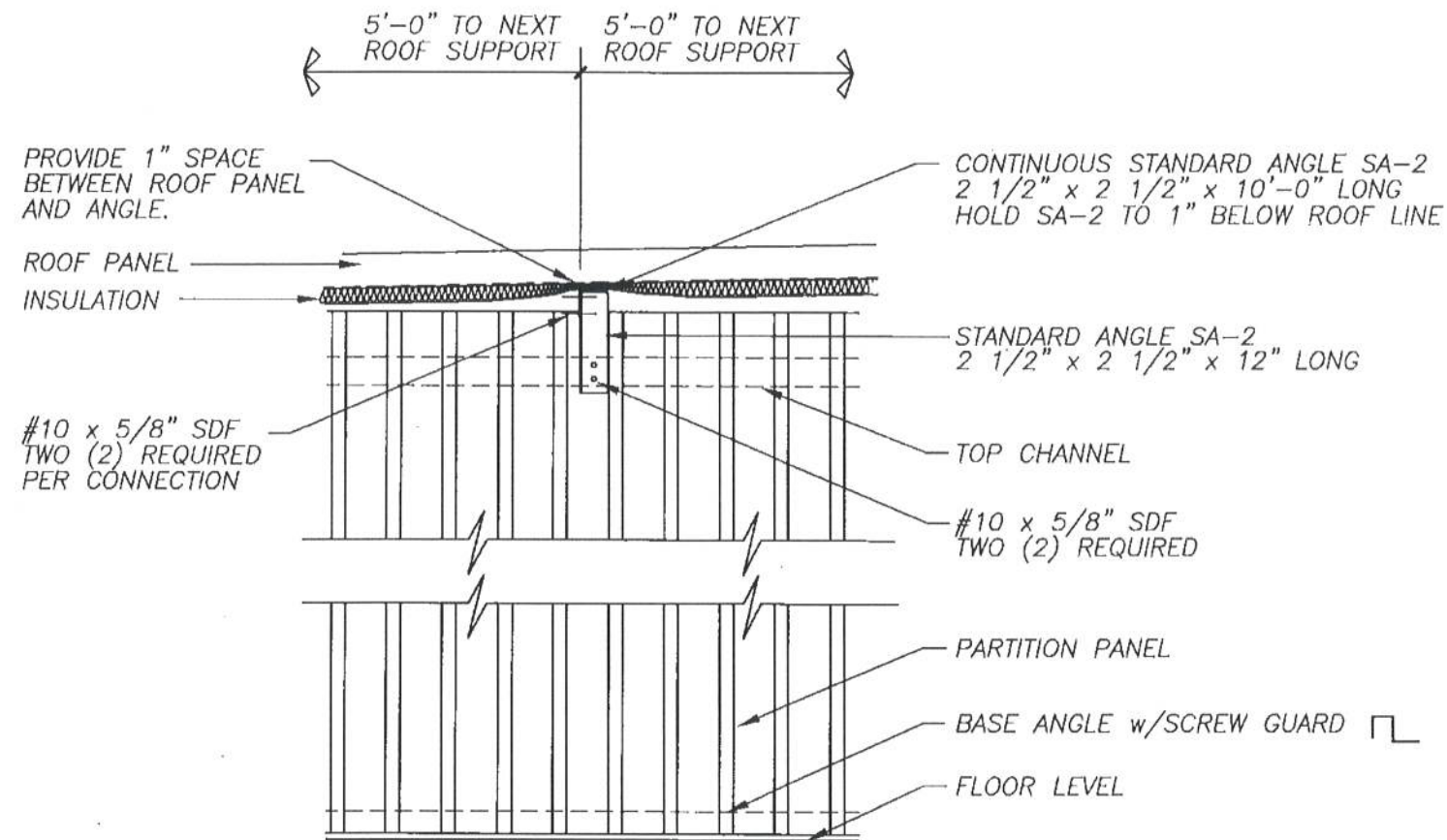
REVISIONS	DATE	BY

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STATESVILLE, NC 28625
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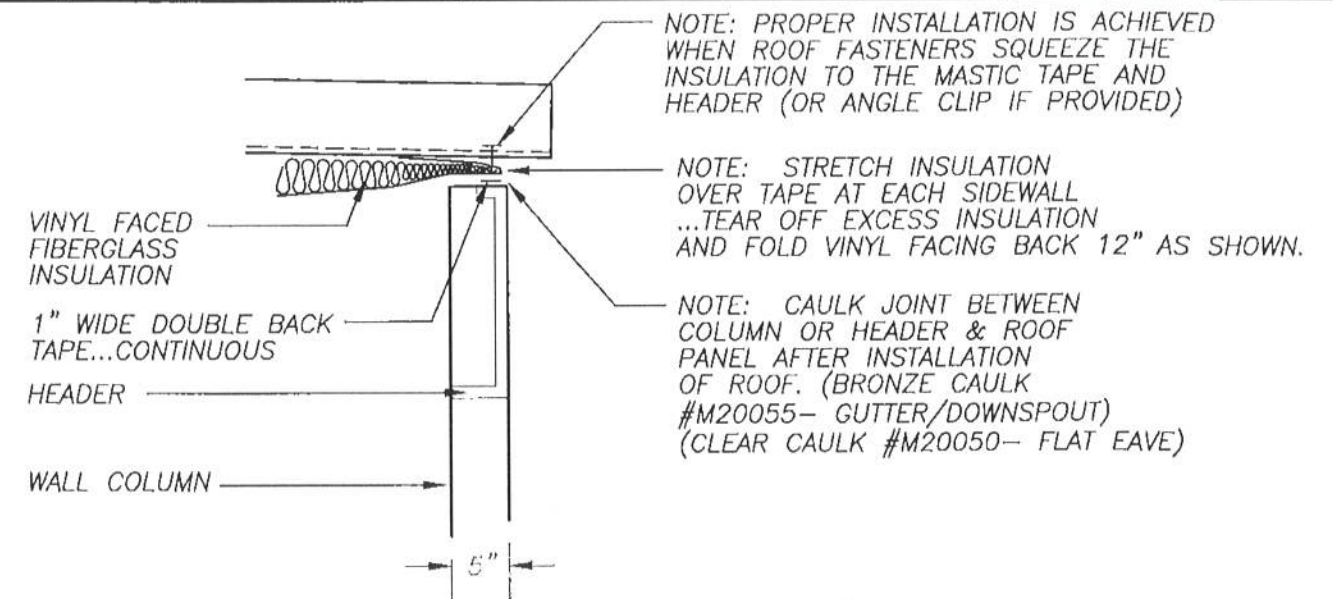
SHEET TITLE: Studwall Details		
DRAWN BY: JCM	APPROVED BY:	DRAWING NUMBER:
SCALE: NTS	DATE: 11/8/11	ERC631X



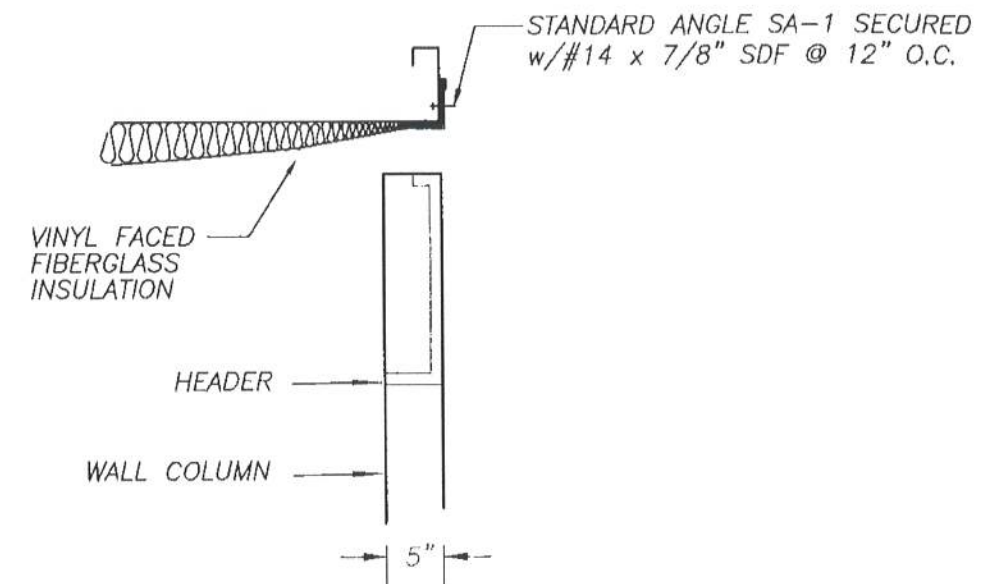
PLAN VIEW



**ELEVATION AT INTERMEDIATE
INSULATION SUPPORT**



INSULATION INSTALLATION @ SIDEWALL



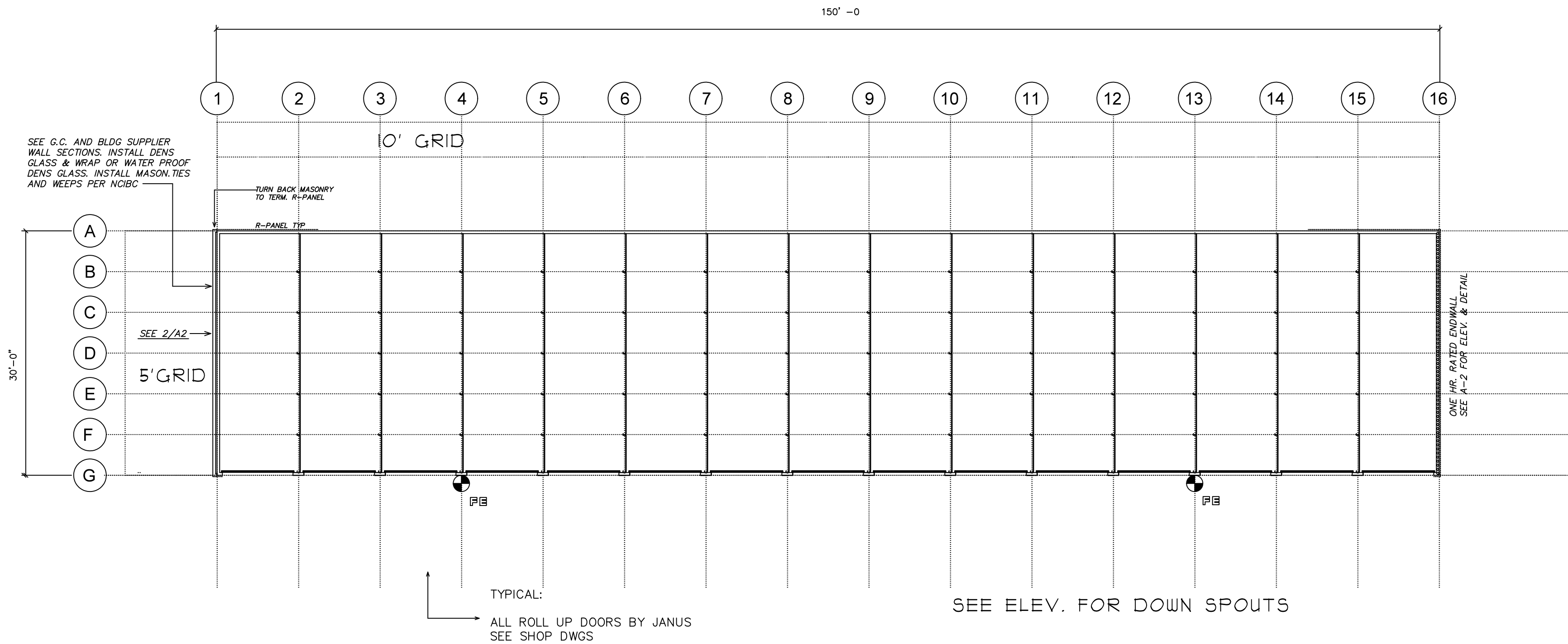
**INSULATION INSTALLATION
AT END WALL**



REVISIONS	DATE	BY
3 ADDED ROOF FASTENER NOTE	4/17/03	JCM
2 REVISED SA-2 GAP	1/14/03	BAM
1 GENERAL REVISIONS	3-8-99	FOX

BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800)654-7813

SHEET TITLE: Insulation installation		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER:
SCALE: NTS	DATE: 6-27-94	ERC700X



1 FLOOR PLAN - BLDG. G
A-1 3/32" = 1'-0"

SEE OVERALL SITE LOCATIONS FOR ADA UNITS.

FIRE EXTINGUISHERS

NOTE: INFORMATION SHOWN IS GENERAL AND SUBJECT TO BE REVISED PER TYPE AND LOCATIONS BY THE LOCAL FIRE MARSHALL. CONSULT WITH FIRE MARSHALL PRIOR TO FINAL PLACEMENT.

12A TO BC
MAX TRAVEL DISTANCE TO UNIT 15' \ OR 150' BETWEEN UNITS. ONE UNIT MUST ALWAYS BE VISIBLE FROM ANY LOCATION.
LESS THAN 40# HANDLE MT. 5'-0" AFF MAX.
MORE THAN 40# HANDLE MT. 3'-6" AFF MAX.
CAB. AND/OR RELEASE MAX. 48" AFF

FE MAY BE WALL MT. W/MANUF. WALL BRACKET.

PROVIDE CLEAR INSTRUCTIONS AT EACH EXTINGUISHER REGARDING INSTRUCTIONAL USE.

IF FIRE MARSHALL DOES NOT LOCATE UNITS OR SUPPLIER DOES NOT SUPPLY SHOP Dwg. ARCHITECT WILL LOCATE LOCATIONS PER KEY PLAN.

F.E. LOCATED AT EXTERIOR LOCATIONS * OUTSIDE UNITS ARE TO SPEC. PER UET LOCATIONS BY MANUF.

LAKESIDE SELF-STORAGE

HARNETT COUNTY
NORTH CAROLINA

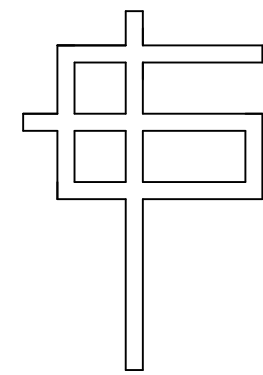
BLDG. G

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GENERAL NOTES:

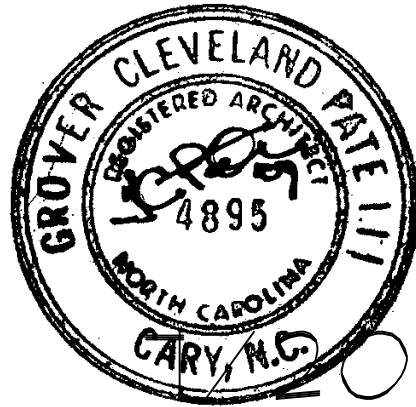
1. SEE STRUCTURAL & G.C. CD DETAILS FOR CONSTRUCTION DETAILS. SEE BETCO DWGS.

REV. DATE: REVISION DESCRIPTION



G. CLEVELAND PATE, PLLC
Architecture • Planning
6013 Fordland Drive, Raleigh, NC 27606
919-851-0052

SEALS:



FLOOR PLAN

GCP	GCP	SHEET:
DESIGNED BY:	DRAWN BY:	A-1
GCP	GCP	
CHECKED BY:	APPROVED BY:	OF:
FREEWAY1	FREEWAY1A	7.20/26
CAD FILE NAME:	PROJECT #	DATE:

LAKESIDE SELF-STORAGE

HARNETT COUNTY
NORTH CAROLINA

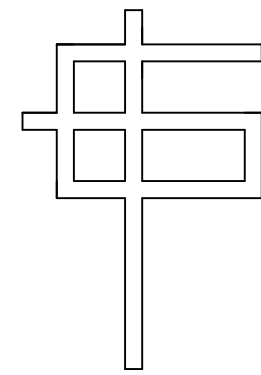
BLDG. G

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GENERAL NOTES:

1. SEE STRUCTURAL & G.C. CD DETAILS FOR CONSTRUCTION DETAILS. SEE BETCO DWGS.

REV. DATE: REVISION DESCRIPTION



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919-851-0052

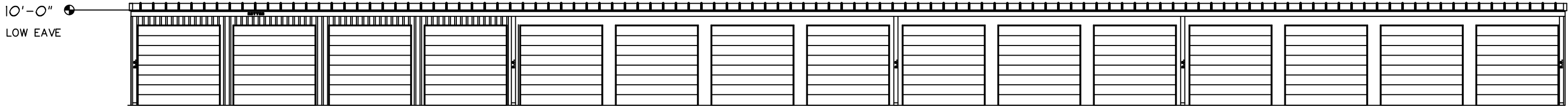
SEALS:



0/26

ELEVATIONS

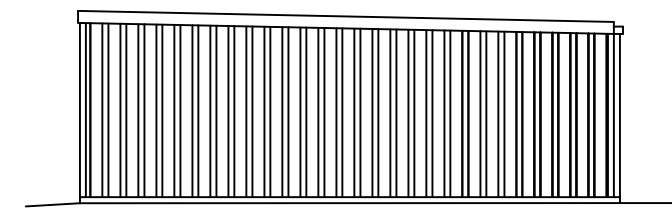
GCP	GCP	SHEET:
DESIGNED BY:	DRAWN BY:	A - 2
GCP	GCP	
CHECKED BY:	APPROVED BY:	OF:
FREEWAYI	FREEWAYIA	1/20/26
CAD FILE NAME:	PROJECT #	DATE:



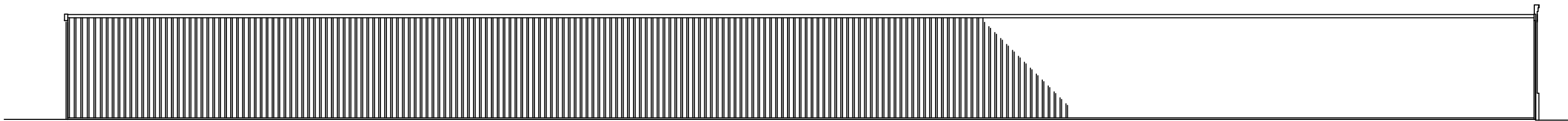
VERIFY ACTUAL
JAMB DISTANCE
FROM UNIT
SEPARATION WALLS

SEE PLAN FOR FIRE EXTINGUISHERS

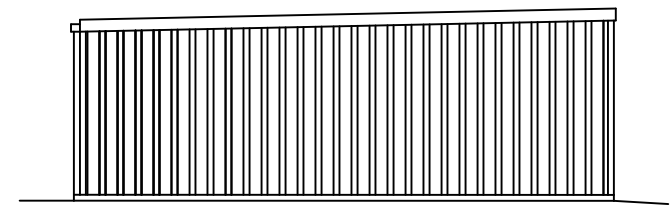
1 BUILDING H-REAR ELEVATION
3/32" = 1'-0"



2 BUILDING LEFT ELEVATION
3/32" = 1'-0"



3 BUILDING FRONT ELEVATION
3/32" = 1'-0"



4 BUILDING RIGHT ELEVATION
3/32" = 1'-0"

RIGHT SIDE ELEVATION ONE HR. RATED WALL

