

LIFE SAFETY PLAN REQUIREMENTS:

- ☑ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) - SEE NOTE 1
- ☑ ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2
- ☑ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3
- ☑ OCCUPANCY TYPES 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 (1006.2.1 & 1006.3.2(1))
- ☑ DEAD END LENGTHS (1020.4) - SEE NOTE 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. SEE NOTE 5
- ☑ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) - SEE NOTE 6
- ☑ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.9.7) - SEE NOTE 7
- ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) - SEE NOTE 7
- ☑ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7
- ☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) - SEE NOTE 7
- ☑ THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8
- ☑ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) - SEE NOTE 9
- ☐ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

LIFE SAFETY PLAN NOTES:

1. SEE LEGEND FOR RATED WALLS.
2. ALL ASSUMED AND REAL PROPERTY LINES $\geq 25'$
3. ASSUMED PROPERTY LINES = 14'; UNLIMITED; 705.8.1 EXC. 2
4. NO DEAD ENDS OVER 20'; 20' ALLOWED
5. NO RATING REQUIRED FOR THIS STRUCTURE.
6. PANIC HARDWARE NOT REQUIRED.
7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS 1,2 (SECTION 1016-1021)	
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
S-1	2	5	200'	188'-11"	116'-0"	140'-0"
OFFICE	1	1	75'	44'-9"	N/A	N/A

1. CORRIDOR DEAD ENDS (SECTION 1020.4)
2. BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1)
3. COMMON PATH OF TRAVEL (SECTION 1029.8)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	EXIT WIDTH						
	(a) AREA ¹ SQ. FT.	(b) AREA ¹ PER OCCUPANT (TABLE 1004.1.2)	(c) CALCULATED OCCUPANT LOAD (a/b)	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		EXIT WIDTH (n) (REQUIRED WIDTH (SECTION 1005.1) (a/b) x c)	
			STAIR	LEVEL	STAIR	LEVEL	
S-1	23,100	500 GROSS	47	N/A	.2	N/A	9.4"
OFFICE	900	100 GROSS	9	N/A	.2	N/A	1.8"
TOTAL	24,000						

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE. SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)
2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)
4. SEE SECTION 1005.6 FOR CONVERGING EXITS.
5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)
6. ASSEMBLY OCCUPANCIES (SECTION 1029)

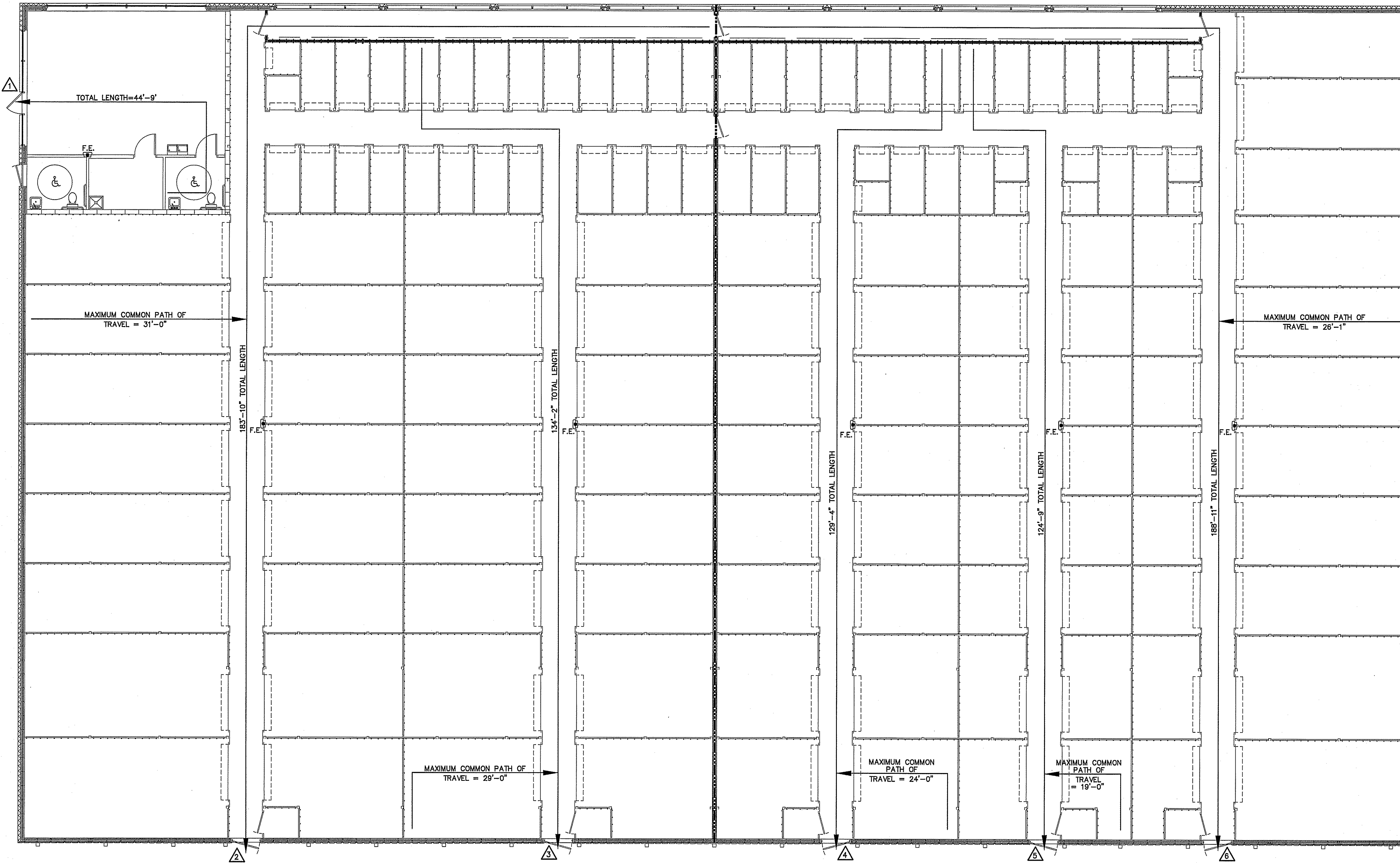
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Code and is subject to field inspection and verification.

Reviewed for Code Compliance

07/01/2024



- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
- ⚠ 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
 - ⚠ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 10 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
 - ⚠ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 9 PERSON
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
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LEGEND

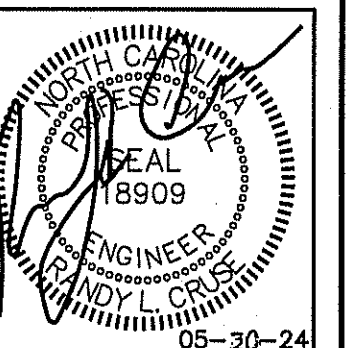
--- 3 HOUR RATED WALL U419

NOTE:
AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND

☒ F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS

LIFE SAFETY PLAN BUILDING "A"
SCALE: 1/8" = 1'-0"



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS

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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23
SHEET NO. LS-1 OF 4

LIFE SAFETY PLAN REQUIREMENTS:

- ☒ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) - SEE NOTE 1
- ☒ ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2
- ☒ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3
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- ☒ OCCUPANT LOADS FOR EACH AREA
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- ☒ COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- ☒ DEAD END LENGTHS (1020.4) - SEE NOTE 4
- ☒ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- ☒ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
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- ☒ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) - SEE NOTE 6
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- ☒ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7
- ☒ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) - SEE NOTE 7
- ☒ THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8
- ☒ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) - SEE NOTE 9
- ☐ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

LIFE SAFETY PLAN NOTES:

1. SEE LEGEND FOR RATED WALLS.
2. ALL ASSUMED AND REAL PROPERTY LINES $\geq 30'$
3. ASSUMED PROPERTY LINES = 10'; UNLIMITED; 705.8.1 EXC. 2
4. NO DEAD ENDS OVER 10'; 20' ALLOWED
5. NO RATING REQUIRED FOR THIS STRUCTURE.
6. PANIC HARDWARE NOT REQUIRED.
7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

**EXIT REQUIREMENTS:
NUMBER AND ARRANGEMENTS OF EXITS**

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1019-1021)	
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
S-1	2	6	200'	100'-05"	67'-6"	76'-1"

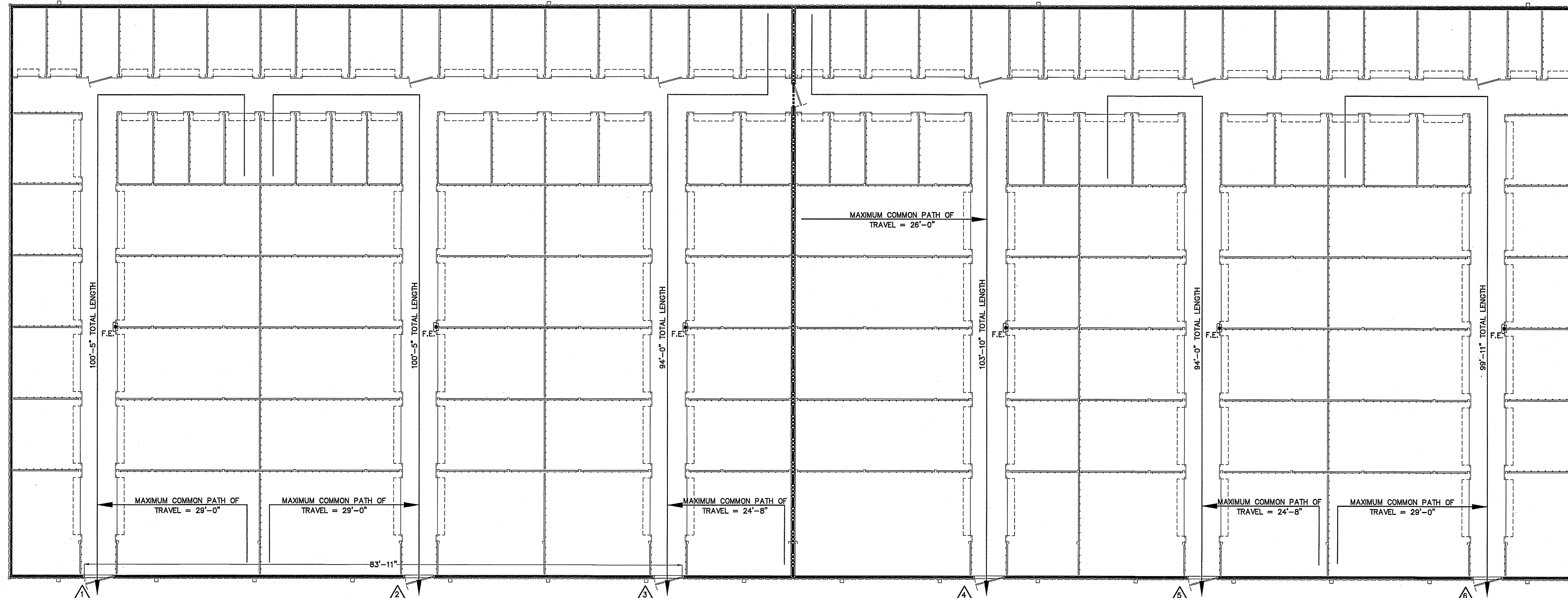
1. CORRIDOR DEAD ENDS (SECTION 1020.4)
2. BUILDINGS W/SINGLE EXITS (TABLE 1008.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1)
3. COMMON PATH OF TRAVEL (SECTION 1029.8)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	EXIT WIDTH								
	(a)	(b)	(c)	EXIT WIDTH (in)					
AREA 1 SQ. FT.	AREA 1 PER OCCUPANT (TABLE 1004.1.2)	CALCULATED OCCUPANT LOAD (a/b)	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED WIDTH (SECTION 1005.1) (a/b) x c		ACTUAL WIDTH SHOWN ON PLANS		
			STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL	
S-1 (AREA 1)	17,600	500 GROSS	36	N/A	.2	N/A	7.2"	N/A	282"
TOTAL	17,600								

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)
2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)
4. SEE SECTION 1005.6 FOR CONVERGING EXITS.
5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)
6. ASSEMBLY OCCUPANCIES (SECTION 1029)

- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
- △ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 6 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
 - △ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS
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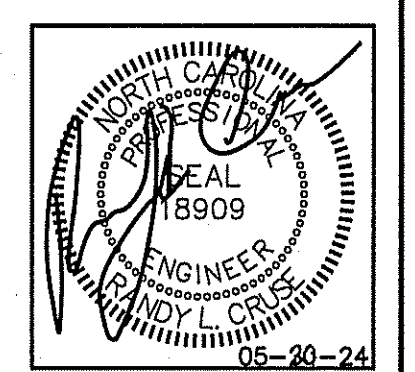


LEGEND
 - - - - - 3 HOUR RATED WALL U419

NOTE:
 AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND
 ⊕ F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS

LIFE SAFETY PLAN BUILDING "D"
 SCALE: 1/8" = 1'-0"



**PLANS FOR:
 AMPLE STORAGE**
 ERWIN, NORTH CAROLINA 28839

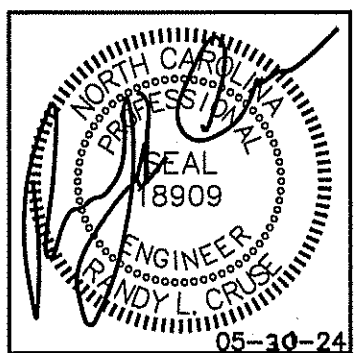
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DATE 05/30/24
 DRAWN BY BAM
 JOB NO. 24-23
 SHEET NO. LS-2 OF 4



PLANS FOR:
AMPLE STORAGE
 ERWIN, NORTH CAROLINA 28339

REVISIONS

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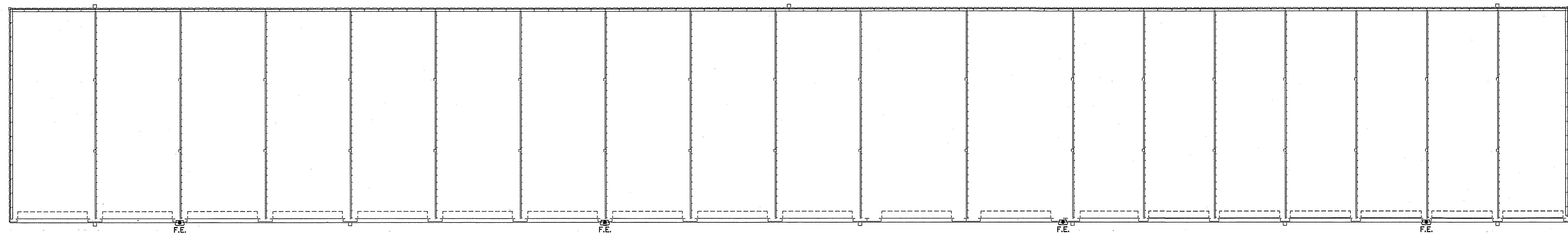
DATE 05/30/24

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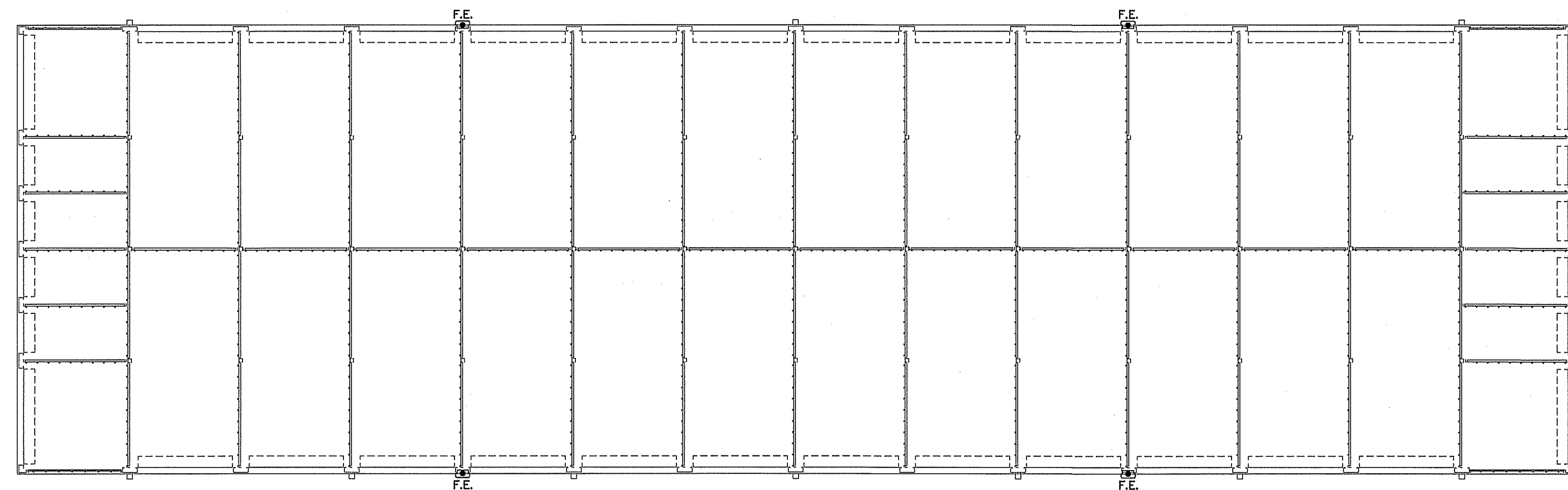
SHEET NO.
LS-3 OF 4

BUILDING "F" SHOWN FOR FIRE EXTINGUISHER PLACEMENT ONLY



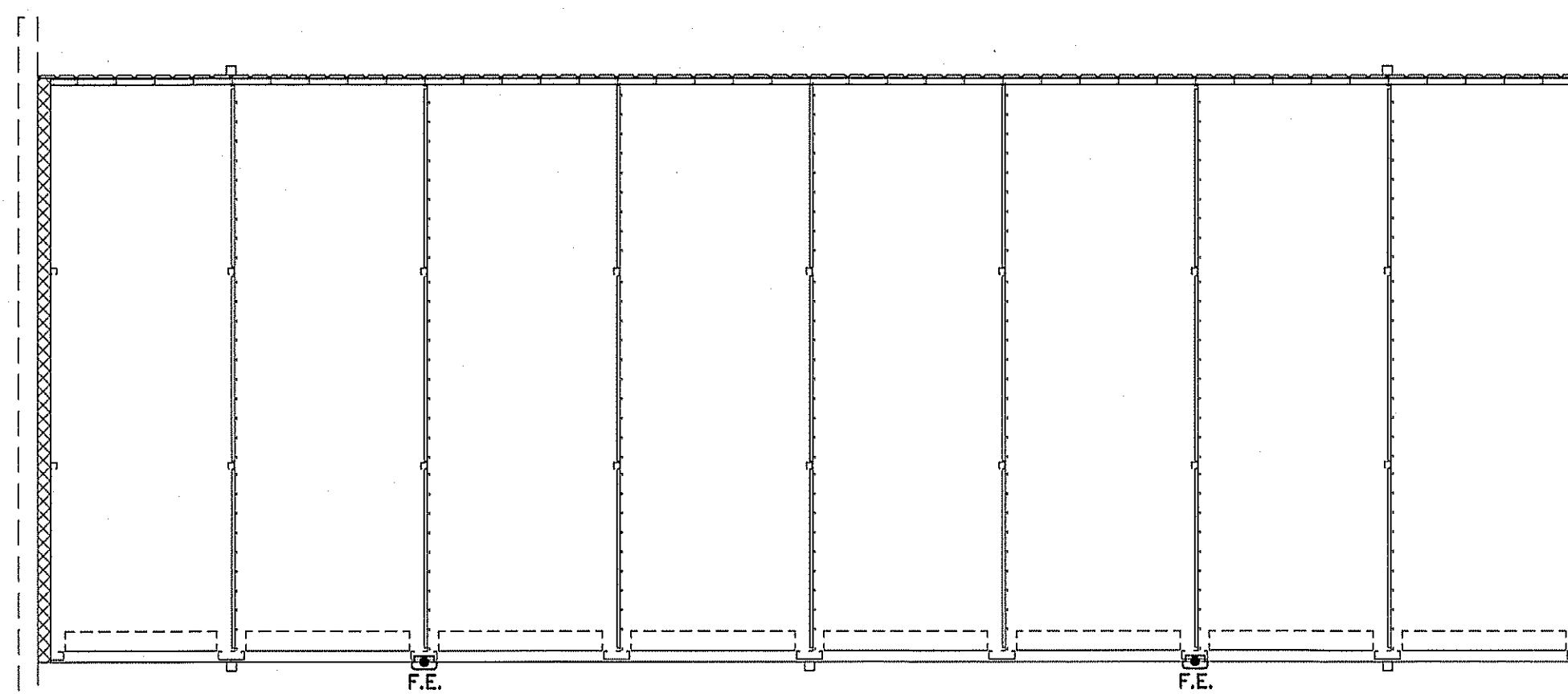
LIFE SAFETY PLAN BUILDING "F"
 SCALE: 1/8" = 1'-0"

BUILDING "E" SHOWN FOR FIRE EXTINGUISHER PLACEMENT ONLY



LIFE SAFETY PLAN BUILDING "E"
 SCALE: 1/8" = 1'-0"

BUILDING "B" SHOWN FOR FIRE EXTINGUISHER PLACEMENT ONLY



LIFE SAFETY PLAN BUILDING "B"
 SCALE: 1/8" = 1'-0"

NOTE:
 AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

4 HOUR WALL (U907)
 SEE APARTMENT DRAWINGS FOR DETAIL

LEGEND
 F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS

NOTE: EXIT REQUIREMENTS CALCULATED ONLY FOR CONDITIONED AREAS. ALL OTHER AREAS HAVE DIRECT EXIT TO EXTERIOR.

LIFE SAFETY PLAN REQUIREMENTS:

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- ☑ ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2
- ☑ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.6) - SEE NOTE 3
- ☑ OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- ☑ OCCUPANT LOADS FOR EACH AREA
- ☑ EXIT ACCESS TRAVEL DISTANCES (1017)
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- ☑ DEAD END LENGTHS (1020.4) - SEE NOTE 4
- ☑ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- ☑ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
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- ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) - SEE NOTE 7
- ☑ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7
- ☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) - SEE NOTE 7
- ☑ THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8
- ☑ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) - SEE NOTE 9
- ☐ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

LIFE SAFETY PLAN NOTES:

1. SEE LEGEND FOR RATED WALLS.
2. ALL ASSUMED AND REAL PROPERTY LINES $\geq 20'$
3. ASSUMED PROPERTY LINES = 14'; UNLIMITED; 705.8.1 EXC. 2
4. NO DEAD ENDS OVER 10'; 20' ALLOWED
5. NO RATING REQUIRED FOR THIS STRUCTURE.
6. PANIC HARDWARE NOT REQUIRED.
7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

**EXIT REQUIREMENTS:
NUMBER AND ARRANGEMENTS OF EXITS**

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-1021)	
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
S-1 (AREA 1)	2	4	250'	115'-9"	77'-5"	138'-0"
S-1 (AREA 2)	2	4	250'	110'-0"	77'-5"	138'-0"

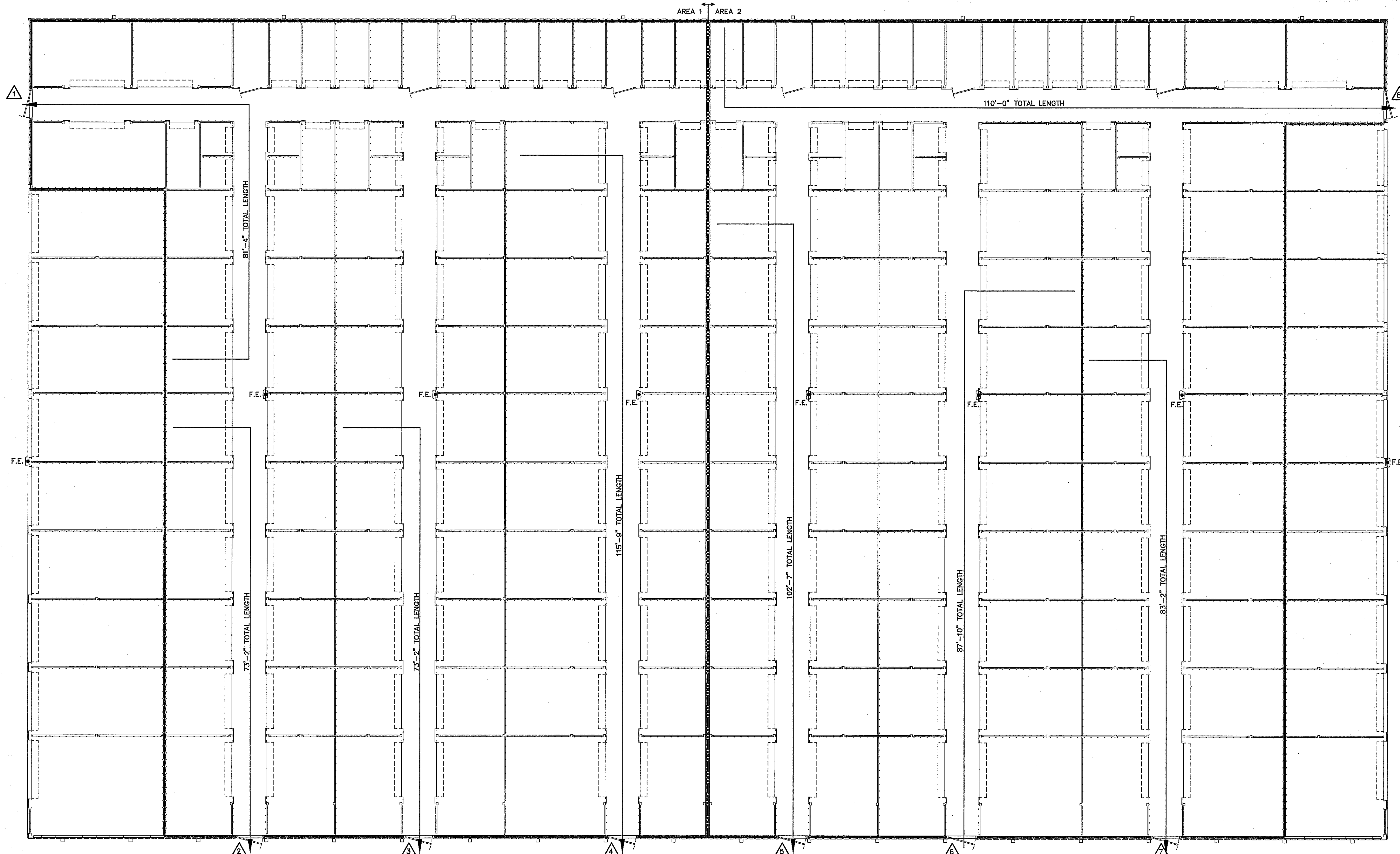
1. CORRIDOR DEAD ENDS (SECTION 1020.4)
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3. COMMON PATH OF TRAVEL (SECTION 1029.8)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	EXIT WIDTH					
	(a)		(b)		(c)	
	AREA ¹ SQ. FT.	AREA ¹ PER OCCUPANT (TABLE 1004.1.2)	CALCULATED OCCUPANT LOAD (a/b)	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)	REQUIRED WIDTH (SECTION 1005.1) (c/b) x c	ACTUAL WIDTH SHOWN ON PLANS
S-1 (AREA 1)	10,100	500 GROSS	21	N/A	.2	N/A
S-1 (AREA 2)	10,425	500 GROSS	21	N/A	.2	N/A
TOTAL	20,525		42			

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE. SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)
2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)
4. SEE SECTION 1005.6 FOR CONVERGING EXITS
5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)
6. ASSEMBLY OCCUPANCIES (SECTION 1029)

- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
- ▲ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 5 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
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CALCULATED OCCUPANCY PER EXIT = 5 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.



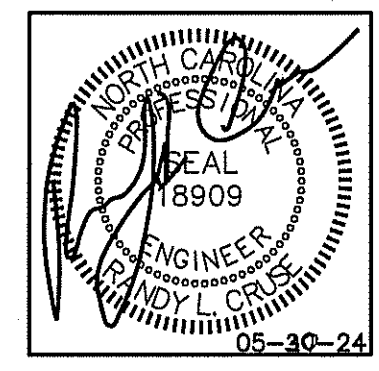
LEGEND
 - - - - - 3 HOUR RATED WALL
 U419

NOTE:
 AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND
 [Symbol] F.E. FIRE EXTINGUISHER
 CLASS ABC 10 POUNDS

LIFE SAFETY PLAN BUILDING "G"
 SCALE: 1/8" = 1'-0"

NOTE: EXIT REQUIREMENTS CALCULATED ONLY FOR CONDITIONED AREAS. ALL OTHER AREAS HAVE DIRECT EXIT TO EXTERIOR.



**PLANS FOR:
 AMPLE STORAGE**
 ERWIN, NORTH CAROLINA 28339

REVISIONS

NO.	

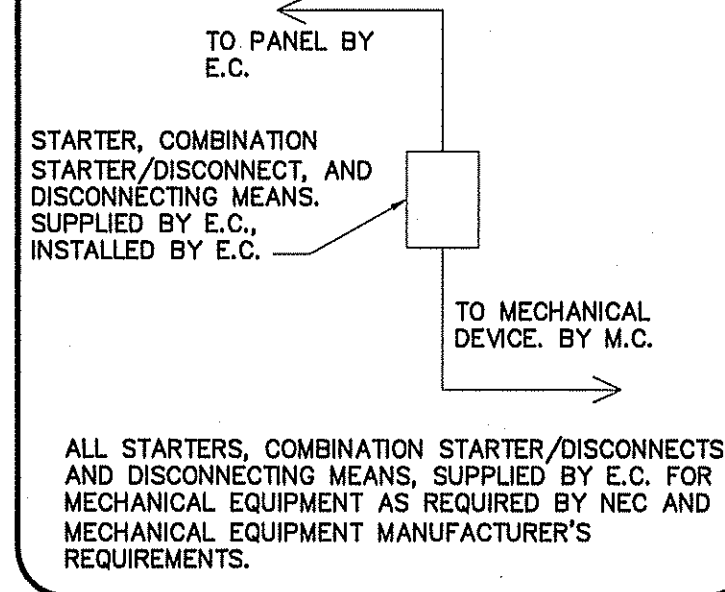
Cruse And Associates, P.A.
 414 EAST EDGEMONT STREET
 ERWIN, NORTH CAROLINA 28339
 PH: (810) 892-4429
 FAX: (810) 892-5182
 LICENSE NO.: C-1721

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DATE 05/30/24
 DRAWN BY BAM
 JOB NO. 24-23

SHEET NO.
LS-4 OF 4

CONNECTION SCHEDULE



GENERAL NOTES:

- 1 RUN ALL DUCTWORK TIGHT TO CEILING INSULATION.
- 2 FASTEN ALL CONDENSATE LINES TO WALLS OR CEILINGS WHERE APPLICABLE.
- 3 7-DAY PROGRAMMABLE T'STAT WITH LOCKING COVER.
- 4 PROVIDE & INSTALL PROTECTIVE 6" CONCRETE-FILLED PIPE BOLLARDS, TWO PER HEAT PUMP OR AS SHOWN ON PLAN.
- 5 PROVIDE AND INSTALL CONCRETE SPLASH BLOCK, ONE PER 3 HEAT PUMPS MIN.
- 6 INSTALL FLOAT SWITCH IN AUXILIARY PAN TO STOP UNIT IN EVENT OF CONDENSATE OVERFLOW.

KEY NOTES:

- 1 16" x 16" TRANSFER GRILL INSTALLED IN DOOR (TYPICAL)
- 2 1-1/2" CONDENSATE LINE FROM EACH AHU TO SPLASH BLOCK, ONE 1-1/2" CONDENSATE LINE & ONE SPLASH BLOCK PER AHU (TYP.)

NOTE:

HVAC CONTRACTOR TO VERIFY EXACT LOCATION (THAT CORRESPONDS TO APPROVED SITE PLAN) OF HEAT PUMPS WITH GENERAL CONTRACTOR BEFORE BEGINNING CONSTRUCTION. THEN COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS.

NOTE:

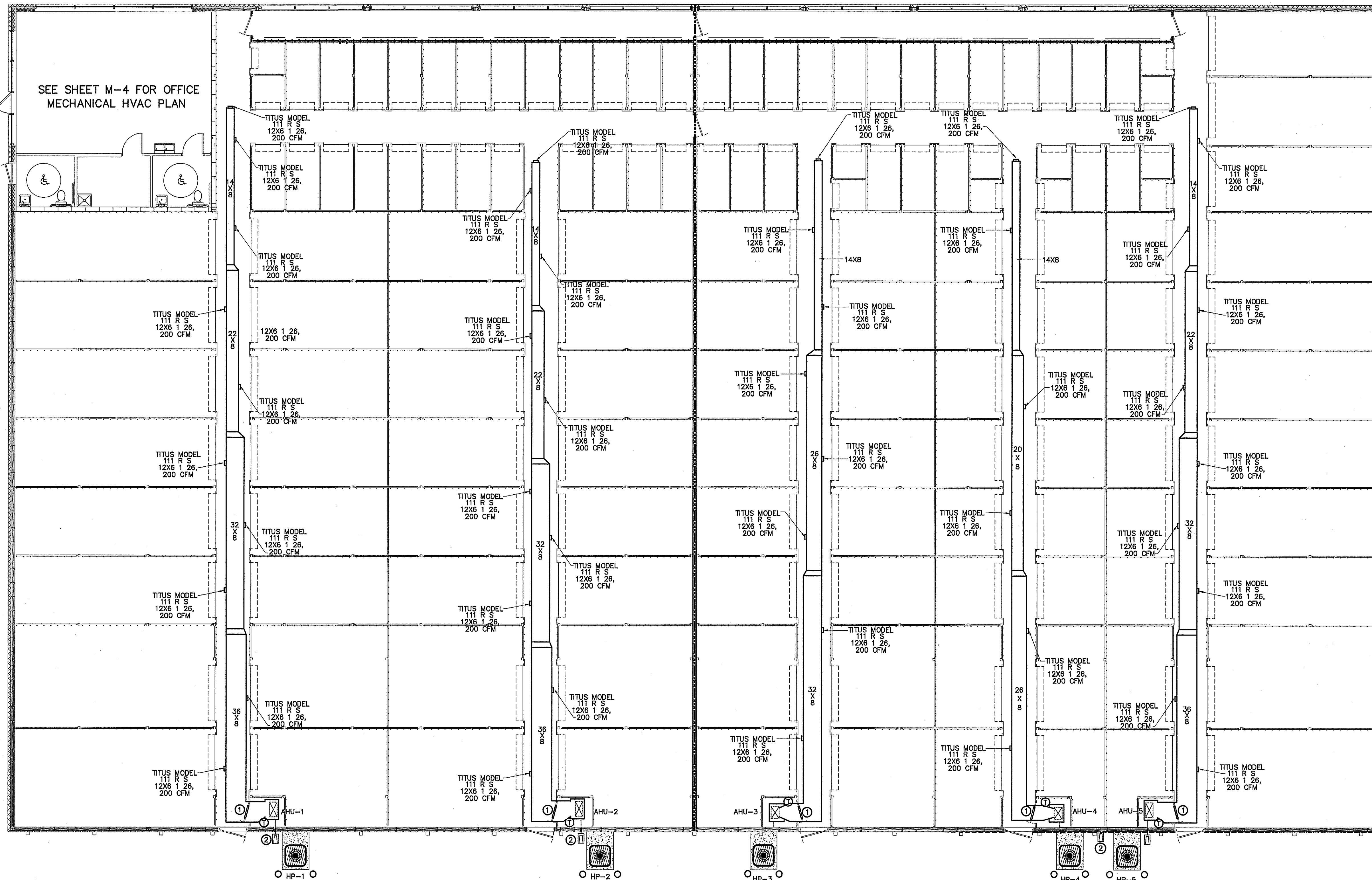
VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLING.

GENERAL NOTE:

MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.

MECHANICAL SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK			VOLUME CONTROL DAMPER (TYP) CEILING DIFFUSER FLEXIBLE DUCTWORK (14" MAX.)			SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES
		BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK			ONE SIDED REDUCING TRANSITION			(1) CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2) CUSHION HEAD IS EQUAL TO 1-1/2 WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		END CAP			F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.			R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.
		DUCT SMOKE DETECTOR			RETURN AIR OR EXHAUST GRILLE			MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		ACCESS DOOR			TWO SIDED TRANSITION			TWO SIDED TRANSITION

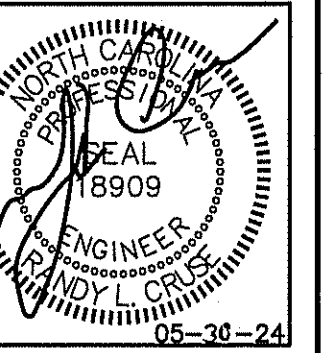


SEE SHEET M-4 FOR OFFICE MECHANICAL HVAC PLAN

MECHANICAL HVAC PLAN BUILDING "A"
SCALE: 1/8" = 1'-0"

LEGEND

3 HOUR RATED WALL
U419



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS

NO.	DESCRIPTION

Cruse And Associates, P.A.

414 EAST EDGEMONT STREET
ERWIN, NORTH CAROLINA 28339
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LICENSE NO.: C-1721

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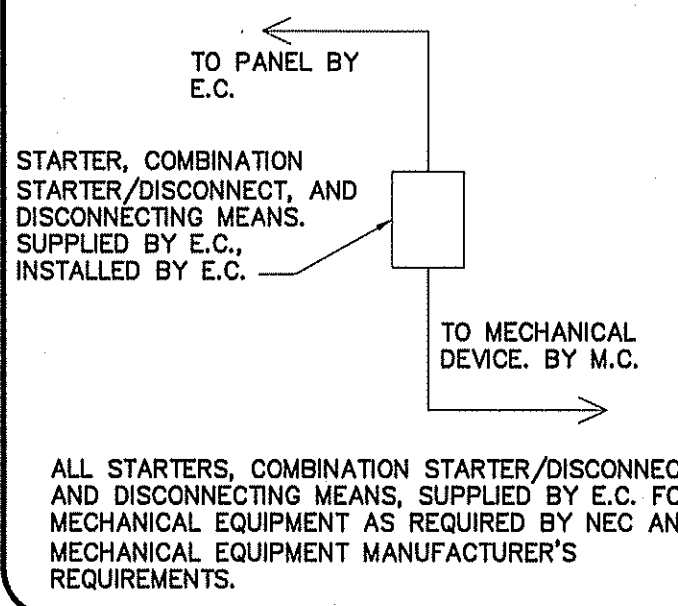
DATE 05/30/24

DRAWN BY BAM

JOB NO. 24-23

SHEET NO.
M-1 OF 5

CONNECTION SCHEDULE



- GENERAL NOTES:**
- RUN ALL DUCTWORK TIGHT TO CEILING INSULATION.
 - FASTEN ALL CONDENSATE LINES TO WALLS OR CEILINGS WHERE APPLICABLE.
 - 7-DAY PROGRAMMABLE T'STAT WITH LOCKING COVER.
 - PROVIDE & INSTALL PROTECTIVE 6" CONCRETE-FILLED PIPE BOLLARDS, TWO PER HEAT PUMP OR AS SHOWN ON PLAN.
 - PROVIDE AND INSTALL CONCRETE SPLASH BLOCK, ONE PER 3 HEAT PUMPS MIN.
 - INSTALL FLOAT SWITCH IN AUXILIARY PAN TO STOP UNIT IN EVENT OF CONDENSATE OVERFLOW.

- KEY NOTES:**
- 16" X 16" TRANSFER GRILL INSTALLED IN DOOR (TYPICAL)
 - 1-1/2" CONDENSATE LINE FROM EACH AHU TO SPLASH BLOCK, ONE 1-1/2" CONDENSATE LINE & ONE SPLASH BLOCK PER AHU (TYP.)

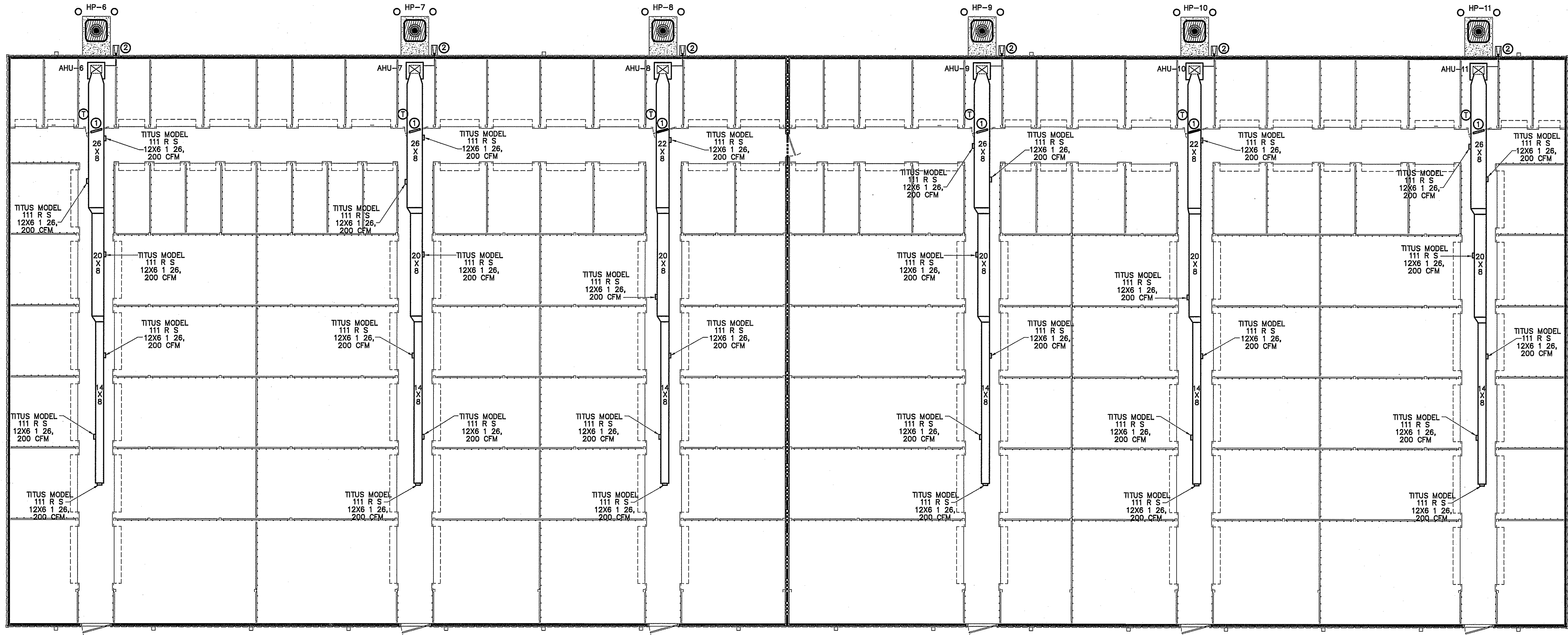
NOTE:
HVAC CONTRACTOR TO VERIFY EXACT LOCATION (THAT CORRESPONDS TO APPROVED SITE PLAN) OF HEAT PUMPS WITH GENERAL CONTRACTOR BEFORE BEGINNING CONSTRUCTION. THEN COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS.

NOTE:
VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLING.

GENERAL NOTE:
MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.

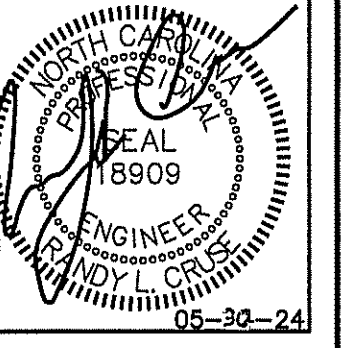
MECHANICAL SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK			VOLUME CONTROL DAMPER (TYP)			CEILING DIFFUSER
		BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK			F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.			(1)CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2)CUSHION HEAD IS EQUAL TO 1-1/2 WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		END CAP			RETURN AIR OR EXHAUST GRILLE			MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		DUCT SMOKE DETECTOR			TWO SIDED TRANSITION			EXHAUST FAN
		ACCESS DOOR DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER						



LEGEND
3 HOUR RATED WALL
U419

HVAC MECHANICAL PLAN BUILDING "D"
SCALE: 1/8" = 1'-0"



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS

NO.	DESCRIPTION

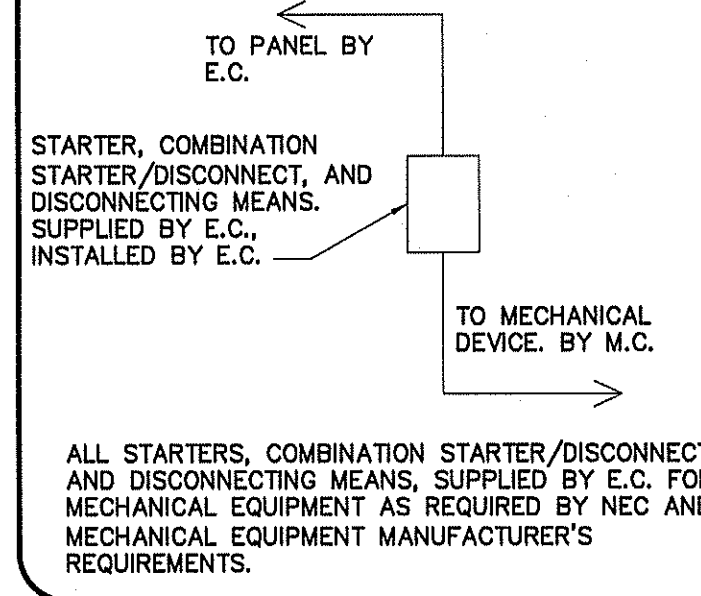
Cruse And Associates, P.A.
414 EAST REDGORTON STREET
RICHMOND, NORTH CAROLINA 28354
PHONE: (810) 892-5850
FAX: (810) 892-5162
LICENSE NO.: C-1721

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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
M-2 OF 5

CONNECTION SCHEDULE



KEY NOTES:

- ① 16" X 16" TRANSFER GRILL INSTALLED IN DOOR (TYPICAL)
- ② 1-1/2" CONDENSATE LINE FROM EACH AHU TO SPLASH BLOCK, ONE 1-1/2" CONDENSATE LINE & ONE SPLASH BLOCK PER AHU (TYP.)

NOTE:

HVAC CONTRACTOR TO VERIFY EXACT LOCATION (THAT CORRESPONDS TO APPROVED SITE PLAN) OF HEAT PUMPS WITH GENERAL CONTRACTOR BEFORE BEGINNING CONSTRUCTION. THEN COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS.

NOTE:

VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLING.

GENERAL NOTE:

MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.

LEGEND

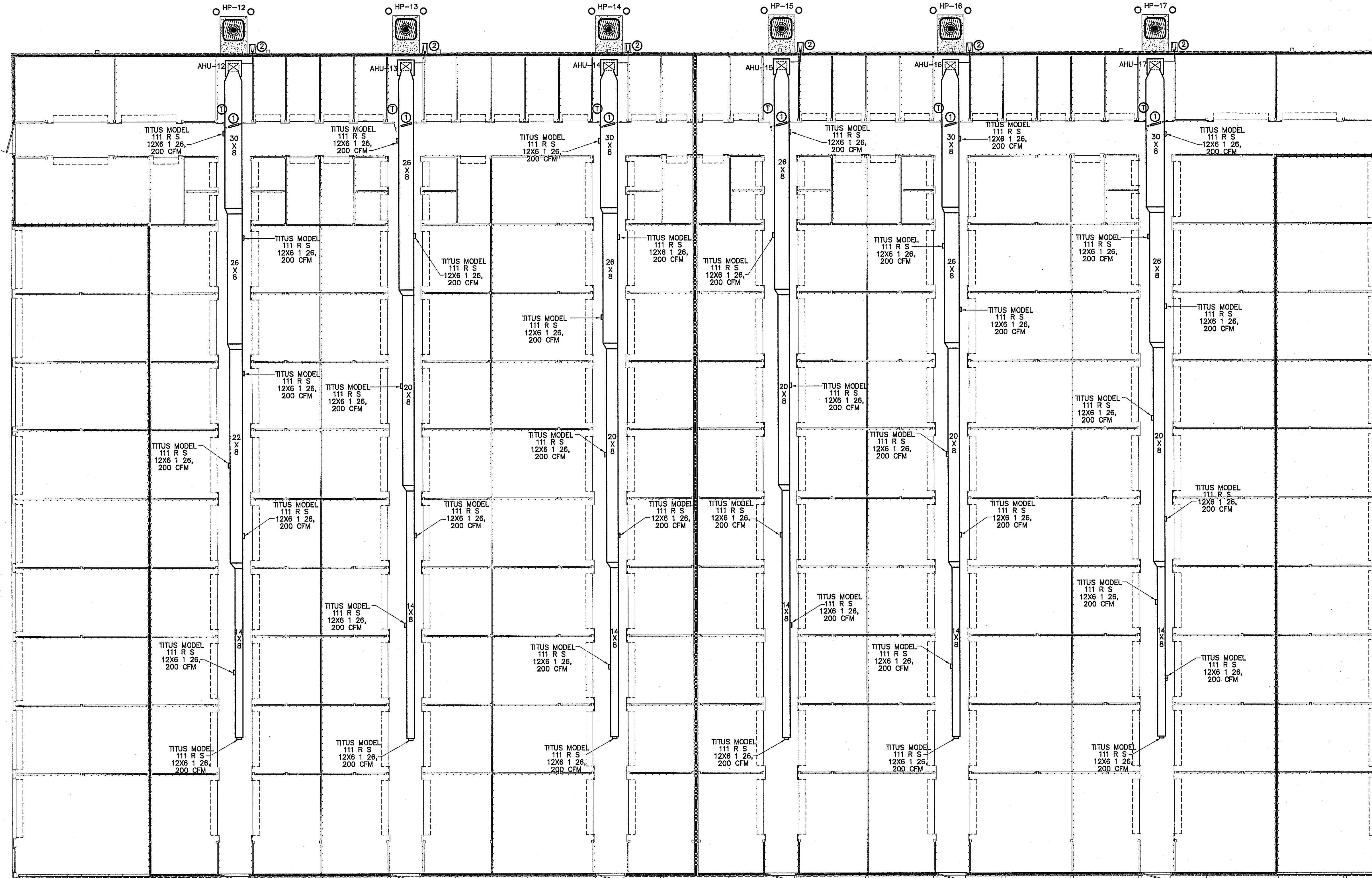
3 HOUR RATED WALL
U419

GENERAL NOTES:

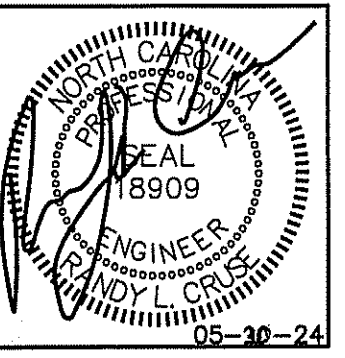
- ① RUN ALL DUCTWORK TIGHT TO CEILING INSULATION.
- ② FASTEN ALL CONDENSATE LINES TO WALLS OR CEILINGS WHERE APPLICABLE.
- ③ 7-DAY PROGRAMMABLE T'STAT WITH LOCKING COVER.
- ④ PROVIDE & INSTALL PROTECTIVE 6" CONCRETE-FILLED PIPE BOLLARDS, TWO PER HEAT PUMP OR AS SHOWN ON PLAN.
- ⑤ PROVIDE AND INSTALL CONCRETE SPLASH BLOCK, ONE PER 3 HEAT PUMPS MIN.
- ⑥ INSTALL FLOAT SWITCH IN AUXILIARY PAN TO STOP UNIT IN EVENT OF CONDENSATE OVERFLOW.

MECHANICAL SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK			CEILING DIFFUSER FLEXIBLE DUCTWORK (14' MAX.)			SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES
		BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK			ONE SIDED REDUCING TRANSITION			(1) CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2) CUSHION HEAD IS EQUAL TO 1-1/2" WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		END CAP			F.D.=FIRE DAMPER (1-1/2")=RATED FOR 1-1/2 HRS.			R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.
		DUCT SMOKE DETECTOR			RETURN AIR OR EXHAUST GRILLE			MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		ACCESS DOOR DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER			TWO SIDED TRANSITION			TWO SIDED TRANSITION
		ELECT. DUCT INSERT HEATER WITH CONTROL PANEL			AHU W/FLEXIBLE CONNECTION AT SUPPLY AND RETURN DUCT			KEY NOTE
		MARK XXX CFM-DIFFUSER, REGISTER OR GRILLE (SEE SCHEDULE)			EXHAUST FAN			



MECHANICAL HVAC PLAN BUILDING "G"
SCALE: 1/8" = 1'-0"



**PLANS FOR:
AMPLE STORAGE**
ERWIN, NORTH CAROLINA 28339

REVISIONS

NO.	DESCRIPTION

414 EAST EDGEMONT STREET
ERWIN, NORTH CAROLINA 28339
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**Cruse
And
Associates, P.A.**

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JOB NO. 24-23

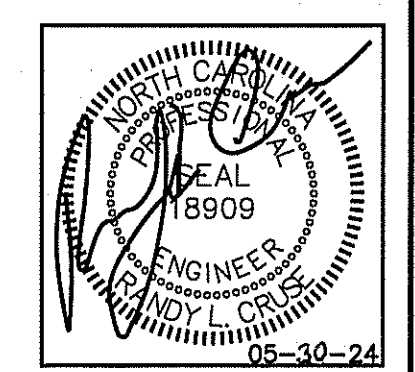
SHEET NO.
M-3 OF 5

MECHANICAL SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK			CEILING DIFFUSER FLEXIBLE DUCTWORK (14' MAX.)			SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES
		END CAP DUCT SMOKE DETECTOR			ONE SIDED REDUCING TRANSITION F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.			(1)CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2)CUSHION HEAD IS EQUAL TO 1-1/2 WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		ACCESS DOOR DOOR SIZE DUCT HEIGHT 8x8 10" 10x10 12" 12x12 14" & LARGER			TWO SIDED TRANSITION			R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS. MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		EXHAUST FAN			EXHAUST FAN			EXHAUST FAN

NOTE:
VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO
INSTALLING. FILTER ALL OUTSIDE AIR.

GENERAL NOTE:
MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES
FOR ALL HVAC EQUIPMENT.



AIR HANDLER UNIT

AHU NO.	MANUFACTURER	MODEL	VOLTAGE	E.S.P.	OUTSIDE AIR (CFM)	CFM	UNIT FLA	REF LINES	SEER	HTR KW (240)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MWH)	HSPF	MIN. CIRC. AMPACITY	M.O.C.P.			
								GAS	LIQ.									
AHU-18	TRANE	TEM6A0C42H41	240/1/60	.46	N/A	1200	32.0	7/8	3/8	16.0	7.68	35.2	26.4	32.4	-	9.5	45	45

SPLIT SYSTEM HEAT PUMP UNITS

MARK	MANUF.	MODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY	M.O.C.P.	UNIT FLA.
HP-18	TRANE	4TWR6036N1000A	240/1/60	1	20	35	16.0

LOUVER SCHEDULE

MARK	DESCRIPTION	SERVES	CFM	APPROXIMATE OUTSIDE DIMENSIONS (W X H)	MODEL
L1	OUTSIDE AIR LOUVER	VARIES	*	12"X12"	HART & COOLEY 1530ZF 12X12 W/ INSECT SCREEN

REGISTER, GRILLE, & DIFFUSER SCHEDULE*

MARK	DESCRIPTION	MAX. NC	NECK	BORDER TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL NUMBER	ACCESSORIES / NOTES
A	DIFFUSER-4-WAY	30	9"X9"	LAY-IN	STEEL	WHITE	TITUS	TDC 9X9 3 26 4	SQ-TO-RND
B	DIFFUSER-2-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND
R1	RETURN GRILLE	30	12"X12"	LAY-IN	STEEL	WHITE	TITUS	23RFL 24X24 3 26	SQ-TO-RND

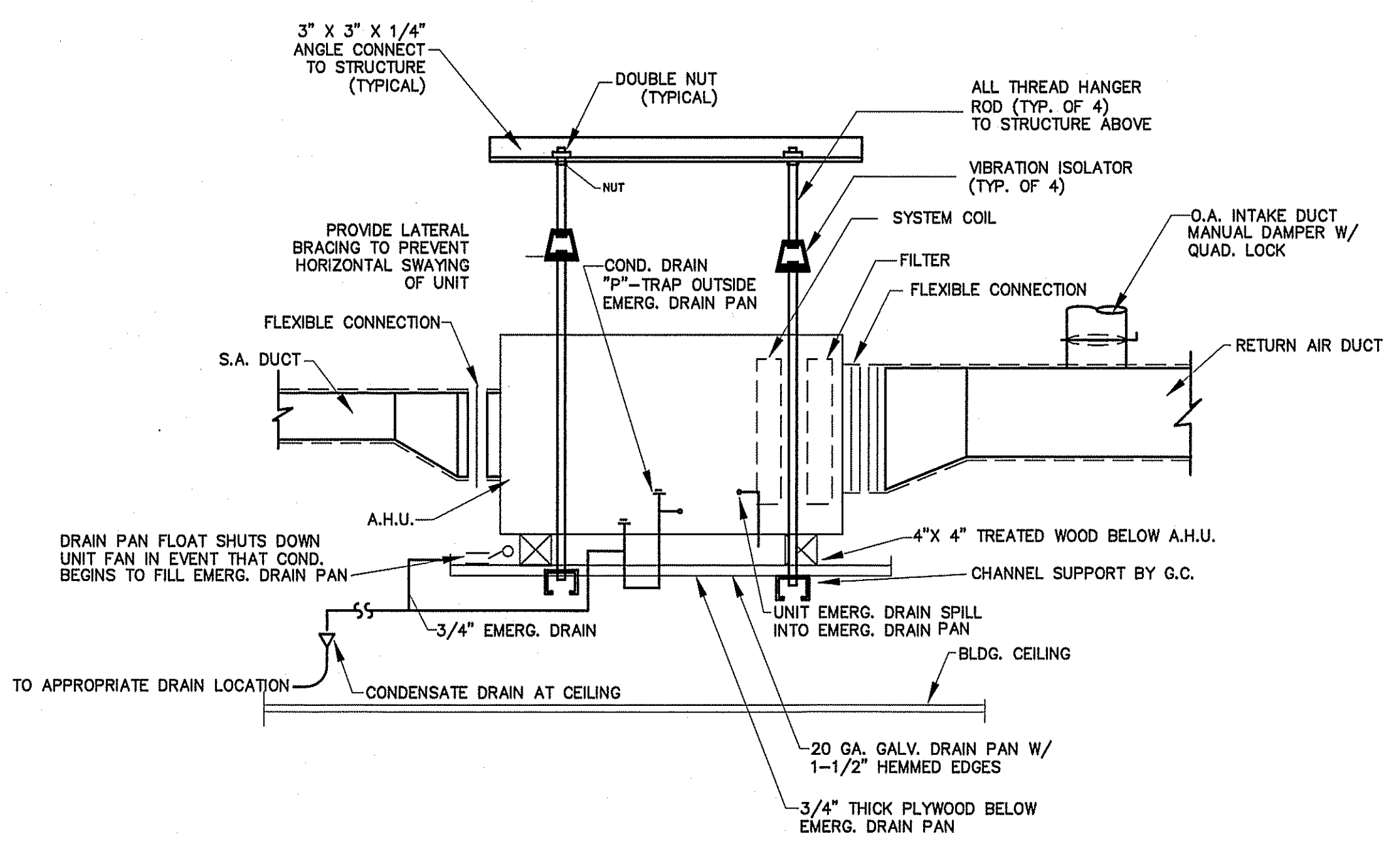
* VERIFY CEILING TYPE BEFORE ORDERING, NARROW TEE REQUIREMENTS, PLASTER FRAMES ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

EXHAUST FAN SCHEDULE

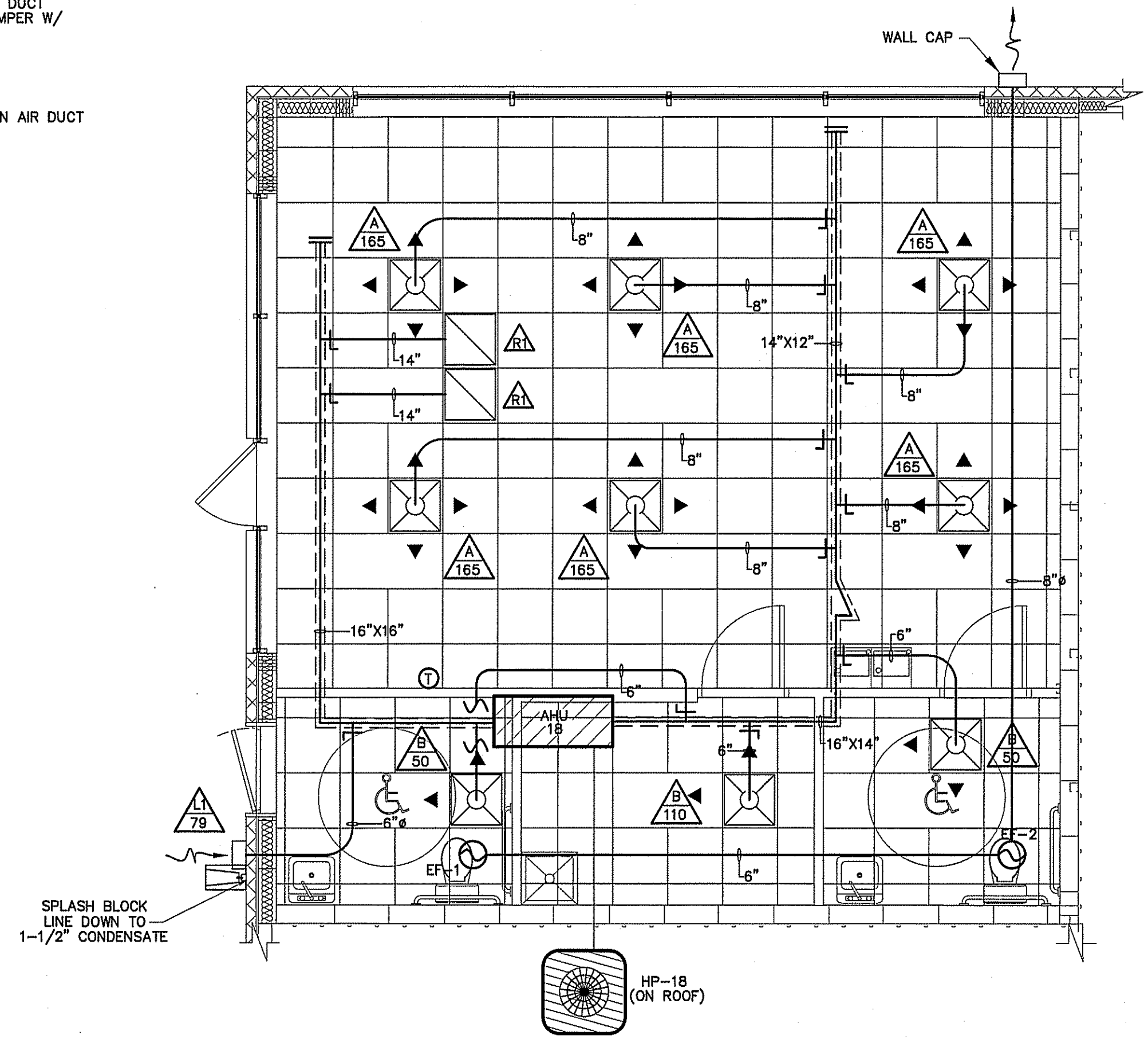
MARK	MAKE	MODEL	TYPE	CFM	EXTERNAL S.P. IN (W.G.)	AMPS	ELECTRICAL	NOTES		
							VOLT	PH	HZ	
EF-1,2	GREENHECK	SP-A90	CEILING FAN	70	.125	.34	115	1ø	60	WC-8 WALL CAP

OUTSIDE AIR REQUIREMENTS
OFFICE - 0.06 CFM/SF X 900 SF = 54 CFM
5 PEOPLE X 5 CFM/PERSON = 25 CFM
79 CFM FOR OFFICE AHU-18.

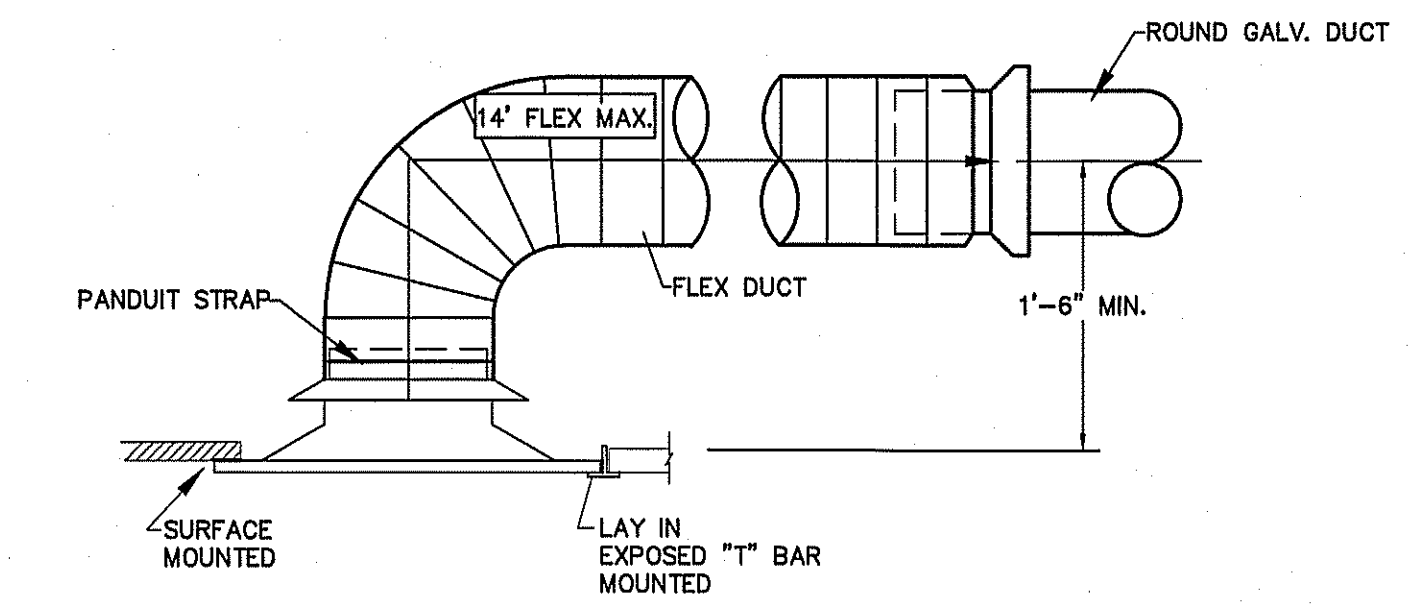
"OFFICE"
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE 4A - HARNETT COUNTY, NC
WINTER DRY BULB 16 DEG. F.
SUMMER DRY BULB 93 DEG. F.
INTERIOR DESIGN CONDITIONS
WINTER DRY BULB 70 DEG. F.
SUMMER DRY BULB 75 DEG. F.
RELATIVE HUMIDITY 55%
BUILDING HEATING LOAD 12.6 MBH
BUILDING COOLING LOAD 3.0 TONS
MECHANICAL SPACE CONDITIONING SYSTEM
UNITARY DESCRIPTION OF UNIT - HEAT PUMP
HEATING EFFICIENCY - 9.5 HSPF
COOLING EFFICIENCY - 15.0 SEER
SIZE CATEGORY OF UNIT - < 65,000 BTUH
BOILER SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A
CHILLER SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A
LIST EQUIPMENT EFFICIENCIES SEE SCHEDULE



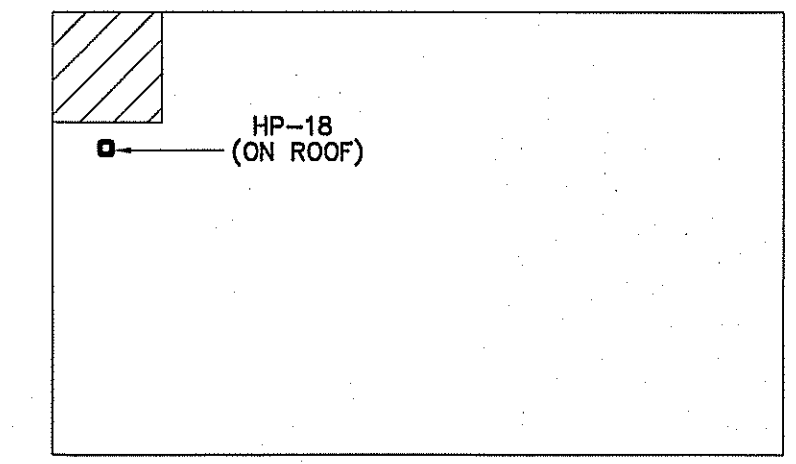
TYPICAL DETAIL AT AIR HANDLING UNITS
NOT TO SCALE



HVAC MECHANICAL PLAN BUILDING "A" (OFFICE)
SCALE: 1/4" = 1'-0"



DIFFUSER DETAIL
NOT TO SCALE



KEY PLAN
SCALE: NTS

PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse And Associates, P.A.
414 EAST ROBERTSON STREET
Durham, North Carolina 28834
PHONE: (919) 896-3162
FAX: (919) 896-3162
LICENSE NO.: C-1721

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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
M-4 OF 5

AIR HANDLER UNIT

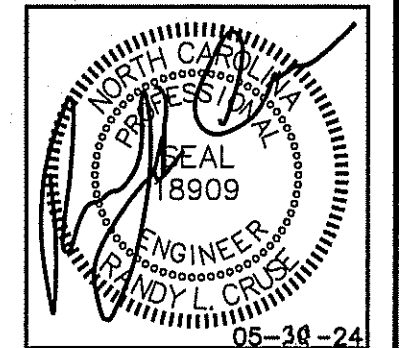
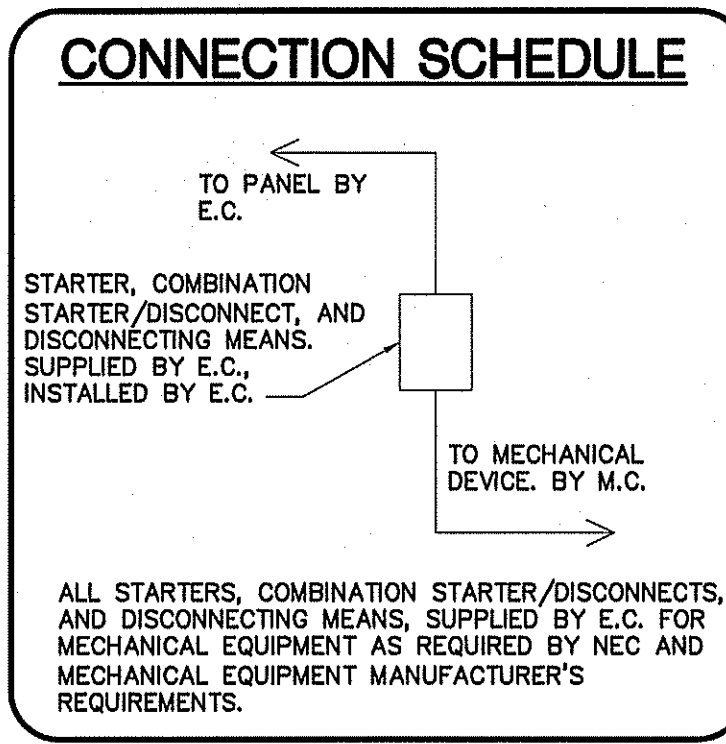
AHU NO.	MANUFACTURER	MODEL	VOLTAGE	E.S.P.	CFM	UNIT FLA	REF LINES		SEER	HTR KW (240)	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		HSPF	MIN. CIRC. AMPACITY	M.O.C.P.
							GAS	LIQ.			TOTAL	SENS.	HIGH	LOW			
AHU-8,10	TRANE	TEM4AOC37S31	240/1/60	.46	N/A	1000	32.0	3/4 3/8	14.0	7.68	28.4	22.4	27.2	18.5	8.5	43	45
AHU-4,6,7,9,11,13,15	TRANE	TEM4AOC42S31	240/1/60	.46	N/A	1200	32.0	7/8 3/8	14.8	7.68	38.4	26.8	34.0	22.4	9.0	45	45
AHU-12,14,16,17	TRANE	TEM4AOC49M41	240/1/60	.46	N/A	1400	32.0	7/8 3/8	15.5	7.68	42.0	31.8	38.7	25.1	9.0	48	50
AHU-3	TRANE	TEM4AOC49M41	240/1/60	.46	N/A	1600	32.0	7/8 3/8	15.5	7.68	47.8	36.2	44.4	29.1	8.5	48	50
AHU-1,2,5	TRANE	TEM4AOC61M51	240/1/60	.46	N/A	2000	32.0	1-1/8 3/8	14.5	7.68	56.8	42.8	54.9	36.2	8.5	48	50

** PROVIDE OUTDOOR THERMOSTAT TO LOCK OUT SUPPLEMENTAL ELECTRIC HEAT AT OUTDOOR TEMPERATURES ABOVE 40F.
NOTE: SEE SHEET M-4 OF 5 FOR AHU-18 & HP-18.

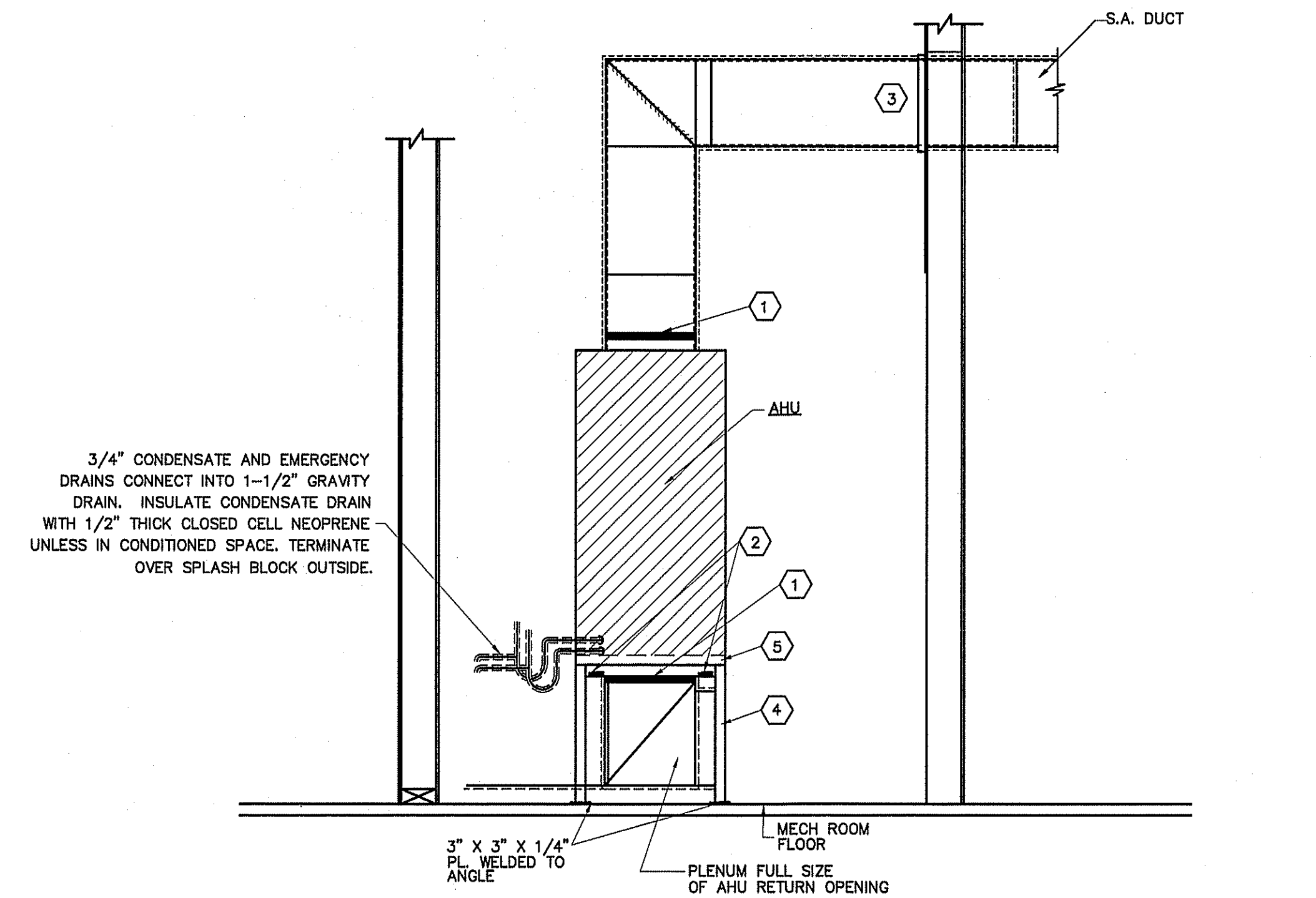
SPLIT SYSTEM HEAT PUMP UNITS

MARK	MANUF.	MODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY	M.O.C.P.	UNIT FLA.	ACCESSORIES
HP-8,10	TRANE	4TWR5030N1000A	240/1/60	1	17	25	13.6	EXCLUDE 8,18
HP-4,6,7,9,11,13,15	TRANE	4TWR5036N1000A	240/1/60	1	18	30	14.8	EXCLUDE 8,18
HP-12,14,16,17	TRANE	4TWR5042N1000A	240/1/60	1	24	40	17.7	EXCLUDE 8,18
HP-3	TRANE	4TWR5048N1000A	240/1/60	1	26	40	21.3	EXCLUDE 8,18
HP-1,2,5	TRANE	4TWR5060N1000A	240/1/60	1	32	50	26.5	EXCLUDE 8,18

- ACCESSORIES
- | | | |
|-------------------------------|---|--|
| 1 TIME-DELAY RELAY | 7 LIQUID SOLENOID VALVE | 13 DISCHARGE LINE MUFFLER |
| 2 CYCLE PROTECTOR | 8 LOW-AMBIENT CONTROLLER | 14 SUCTION AND LIQUID LINE SHUT OFF VALVES |
| 3 EVAPORATOR FREEZE PROTECTOR | 9 FILTER DRIER (LIQUID LINE) | 15 THERMOSTAT (SEE NOTE) |
| 4 ISOLATION RELAY | 10 OUTDOOR TSTAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ) | 16 SUPPORT FEET |
| 5 TXV | 11 LOW PRESSURE CONTROL | 17 COIL GUARDS |
| 6 HIGH PRESSURE SWITCH | 12 CRANKCASE HEATER | 18 HUMIDISTAT |
- COOLING CAPACITY @ 80 DEG. F DB/67 DEG WB AIR ENTERING INDOOR UNIT & 95 DEG. F DB AIR ENTERING OUTDOOR UNIT
HEATING CAPACITY: HIGH TEMP = 70 DEG F DB INDOOR EAT & 47 DEG F DB/43 DEG F WB AIR ENTERING OUTDOOR UNIT
LOW TEMP = 70 DEG F DB INDOOR EAT & 17 DEG F DB/15 DEG F WB ENTERING OUTDOOR UNIT
- T-STAT: THE NUMBER OF STAGES OF HEATING/COOLING SHALL MATCH THE NUMBER OF STAGES OF HEAT AVAILABLE IN THE HPIU OR THE NUMBER OF STAGES OF COOLING AVAILABLE IN THE HPOU. PROVIDE WITH T-STAT; 7 DAY PROGRAMMABLE, DIGITAL.



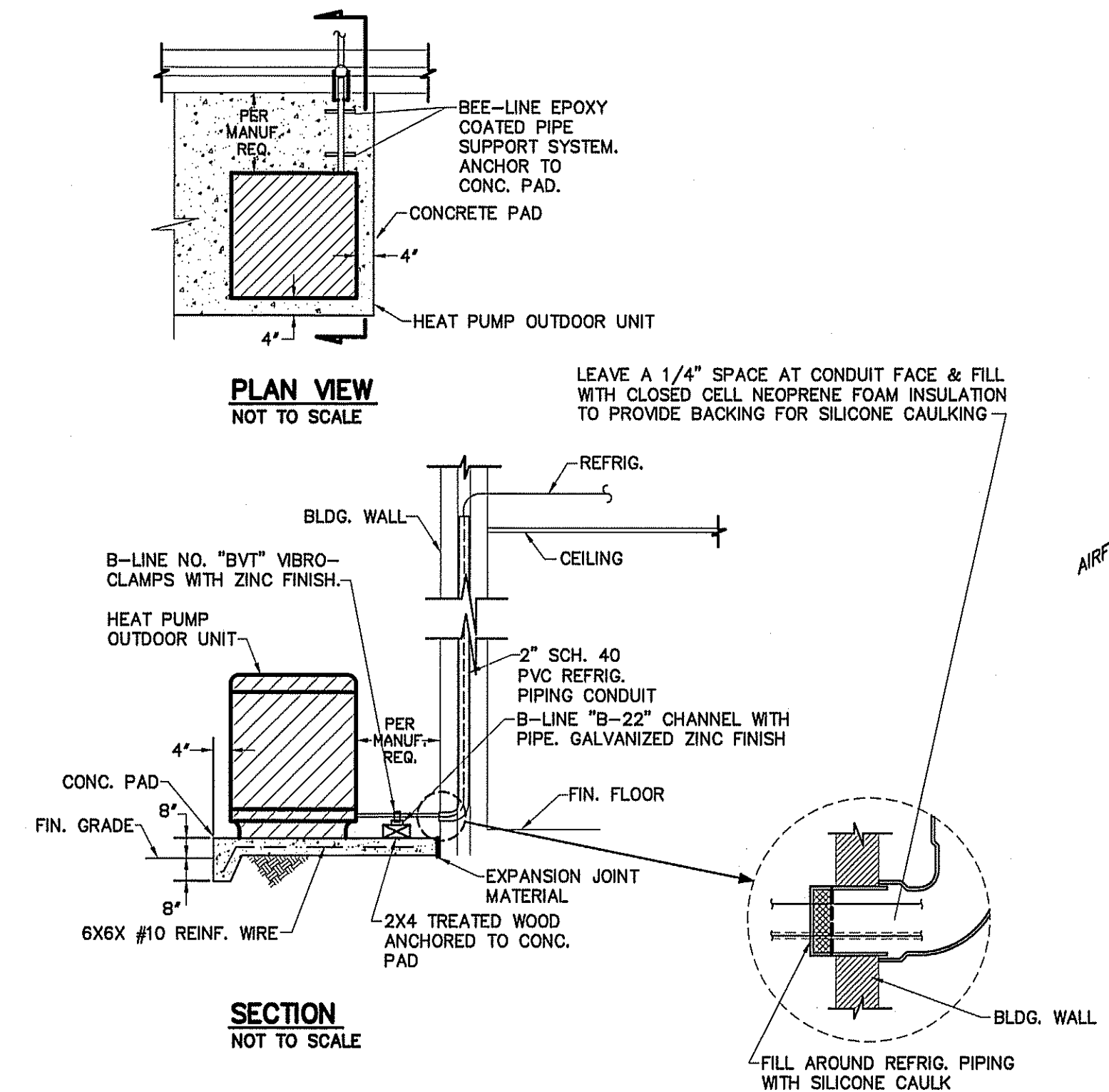
PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339



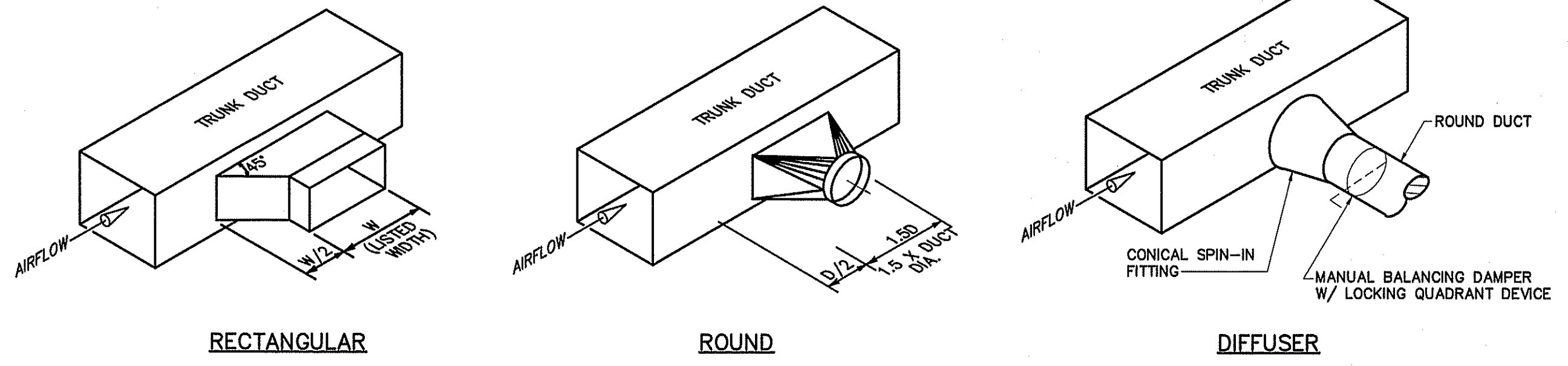
TYPICAL DETAIL AT FLOOR MOUNTED AHU
NOT TO SCALE

NOTES:

- 1 FLEXIBLE CONNECTION
 - 2 NEOPRENE-IN-SHEAR VIBRATION ISOLATORS
 - 3 SHEET METAL COLLAR AT WALL PENETRATION
 - 4 1-1/2" X 1-1/2" X 3/16" ANGLE HPIU SUPPORT STAND WITH ALL WELDED CONSTRUCTION. PAINT WITH 1 COAT OF PRIMER AND FINISH WITH (2) COATS GRAY HIGH GLOSS MACHINE ENAMEL, MARTIN SENOUR OR EQUAL.
 - 5 1" PLEATED FILTER
- PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH SYSTEM.



DETAIL-TYPICAL HEAT PUMP OUTDOOR UNIT
NOT TO SCALE



TYPICAL LATERAL TO REGISTER OR BRANCH DUCT
NOT TO SCALE

MECHANICAL NOTES (GENERAL)

- DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
- THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
- ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.

BUILDING "A"
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE 4A - HARNETT COUNTY, NC
WINTER DRY BULB 16 DEG. F.
SUMMER DRY BULB 93 DEG. F.

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB 59 DEG. F.
SUMMER DRY BULB 80 DEG. F.
RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 160.0 MBH
BUILDING COOLING LOAD 22.0 TONS

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY	DESCRIPTION OF UNIT - HEAT PUMP
	HEATING EFFICIENCY - 8.5 HSPF COOLING EFFICIENCY - 14.5 SEER SIZE CATEGORY OF UNIT - ≤ 65,000 BTUH
BOILER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A
CHILLER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES SEE SCHEDULE

BUILDING "D"
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE 4A - HARNETT COUNTY, NC
WINTER DRY BULB 16 DEG. F.
SUMMER DRY BULB 93 DEG. F.

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB 59 DEG. F.
SUMMER DRY BULB 80 DEG. F.
RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 135.4 MBH
BUILDING COOLING LOAD 17.0 TONS

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY	DESCRIPTION OF UNIT - HEAT PUMP
	HEATING EFFICIENCY - 8.5 HSPF COOLING EFFICIENCY - 14.8 SEER SIZE CATEGORY OF UNIT - ≤ 65,000 BTUH
BOILER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A
CHILLER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES SEE SCHEDULE

BUILDING "G"
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE 4A - HARNETT COUNTY, NC
WINTER DRY BULB 16 DEG. F.
SUMMER DRY BULB 93 DEG. F.

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB 59 DEG. F.
SUMMER DRY BULB 80 DEG. F.
RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 157.0 MBH
BUILDING COOLING LOAD 20.0 TONS

MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY	DESCRIPTION OF UNIT - HEAT PUMP
	HEATING EFFICIENCY - 9.0 HSPF COOLING EFFICIENCY - 14.8 SEER SIZE CATEGORY OF UNIT - ≤ 65,000 BTUH
BOILER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A
CHILLER	SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES SEE SCHEDULE

REVISIONS

NO.	DESCRIPTION

414 EAST INDEPENDENCE STREET
ERWIN, NC 28339
TEL: (910) 892-4429
FAX: (910) 892-5126

Cruse and Associates, P.A.
LICENSE NO. C-1721

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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
M-5 OF 5

MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
⊕	FLUORESCENT FIXTURE
⊕	SWITCHED BRANCH CIRCUIT
⊕	UNSWITCHED BRANCH CIRCUIT
⊕	120/208 VOLT CIRCUIT
⊕	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊕	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⊕	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
⊕	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

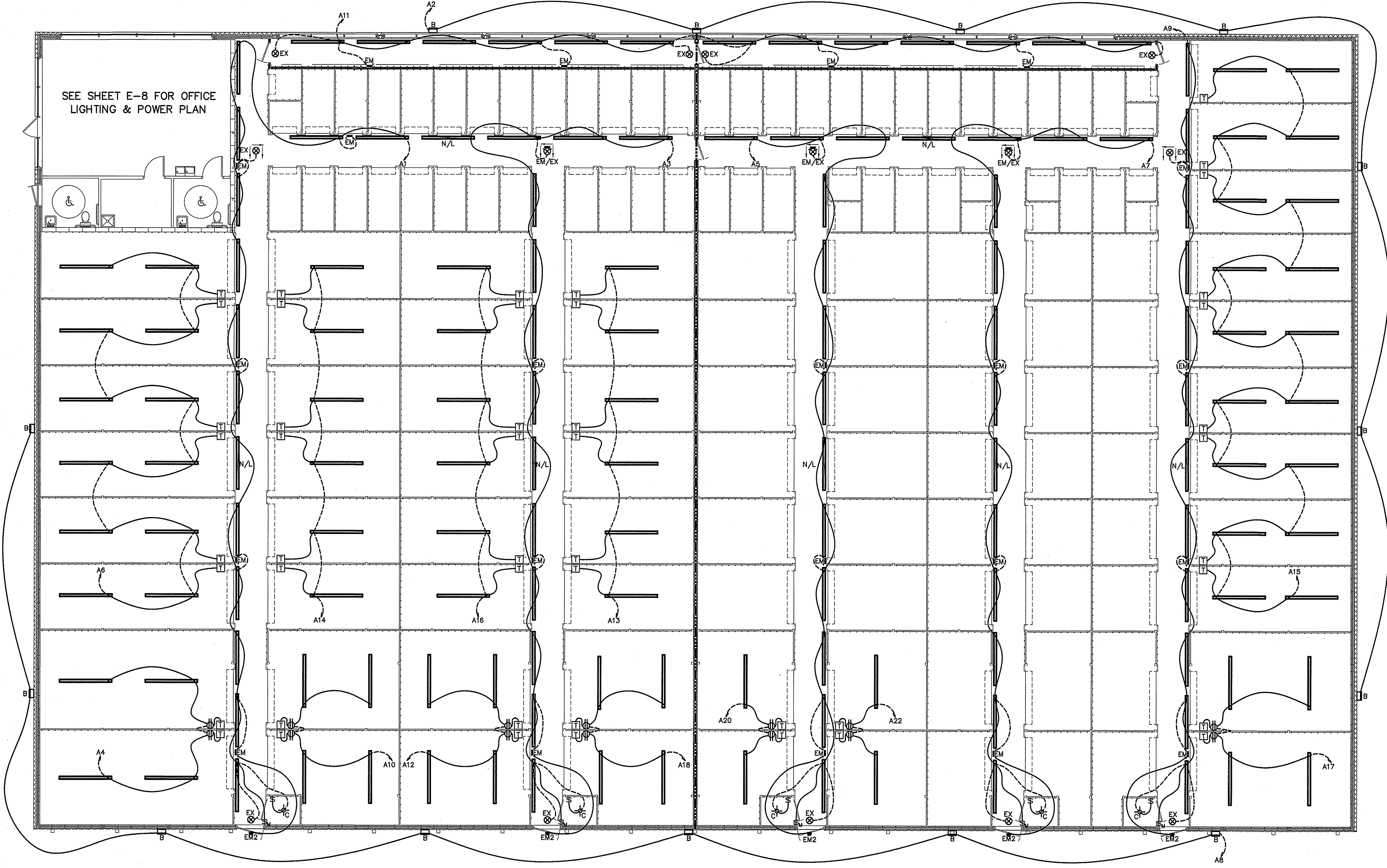
- NOTE:**
1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
 2. COORDINATE LOCATION OF 8' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
 3. ALL FLUORESCENT LIGHTS IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
 4. ALL HALLWAYS SWITCHES TO BE ON MOTION SENSORS OR SWITCHED AS INDICATED AND ON TIMERS OF 30 MINUTES. ALL UNIT SWITCHES & UNIT RECEPTACLES TO BE ON TIMER OF 30 MINUTES WITH NO HOLD MECHANISMS.
 5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
 6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.

- GENERAL NOTE:**
1. VERIFY LOCATION OF WALL PACKS WITH OWNER & SITE LIGHTING PLAN BEFORE INSTALLATION.

LIGHTING DATA FOR N.C. ENERGY CODE BUILDING 'A'					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	23,100	1.2	27,720	10,928	16,792
OFFICE	900	1.3	1,170	721	449
TOTAL	24,000		28,890	11,649	11,241

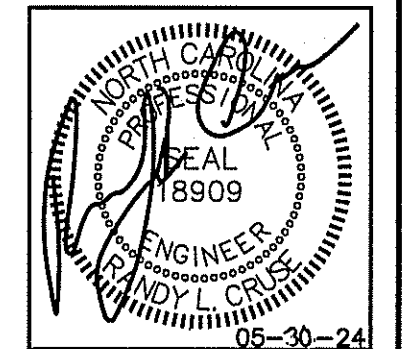
LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS
B	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	VERIFY MOUNTING HEIGHT, OPTIONS BEFORE INSTALLATION
C	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB			LED A19		13	WITH WIRE GUARD
D	2X4 2 LAMP FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	DAYBRITE	2SPG232FA01-UNV-1/2-EB10I	2-32W	1	56	
F	2X4 FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	LITHONIA	2PM3N G 3 32 18LD MVOLT 1/3 GEB10IS	3-32W	1	87	
G	2X4 3 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG332FA01-UNV-1/2-EB10I	3-32W	1	87	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				

1. ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *
2. SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL
3. LED WALLPACKS ON PHOTOCELL.



ELECTRICAL LIGHTING PLAN BUILDING "A"
SCALE: 1/8" = 1'-0"

LEGEND
3 HOUR RATED WALL
U419



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse And Associates, P.A.
444 EAST ROBERTSON STREET
ERWIN, NC 28339
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FAX: (910) 992-5102
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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
E-1 OF 10

ELECTRICAL LEGEND	
MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
▭	FLUORESCENT FIXTURE
↔	SWITCHED BRANCH CIRCUIT
↔	UNSWITCHED BRANCH CIRCUIT
↔	120/208 VOLT CIRCUIT
⊕	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊕	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⊕	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
⊕	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

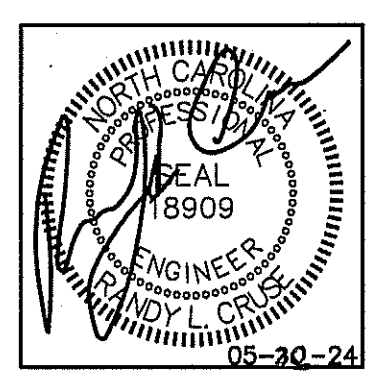
- NOTE:**
1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
 2. COORDINATE LOCATION OF 8" STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
 3. ALL FLUORESCENT LIGHTS IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
 4. ALL HALLWAYS SWITCHES TO BE ON MOTION SENSORS OR SWITCHED AS INDICATED AND ON TIMERS OF 30 MINUTES. ALL UNIT SWITCHES & UNIT RECEPTACLES TO BE ON TIMER OF 30 MINUTES WITH NO HOLD MECHANISMS.
 5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
 6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.

LIGHTING DATA FOR N.C. ENERGY CODE BUILDING 'D'					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	17,600	1.2	21,120	6,326	14,794
TOTAL	17,600		21,120	6,326	14,794

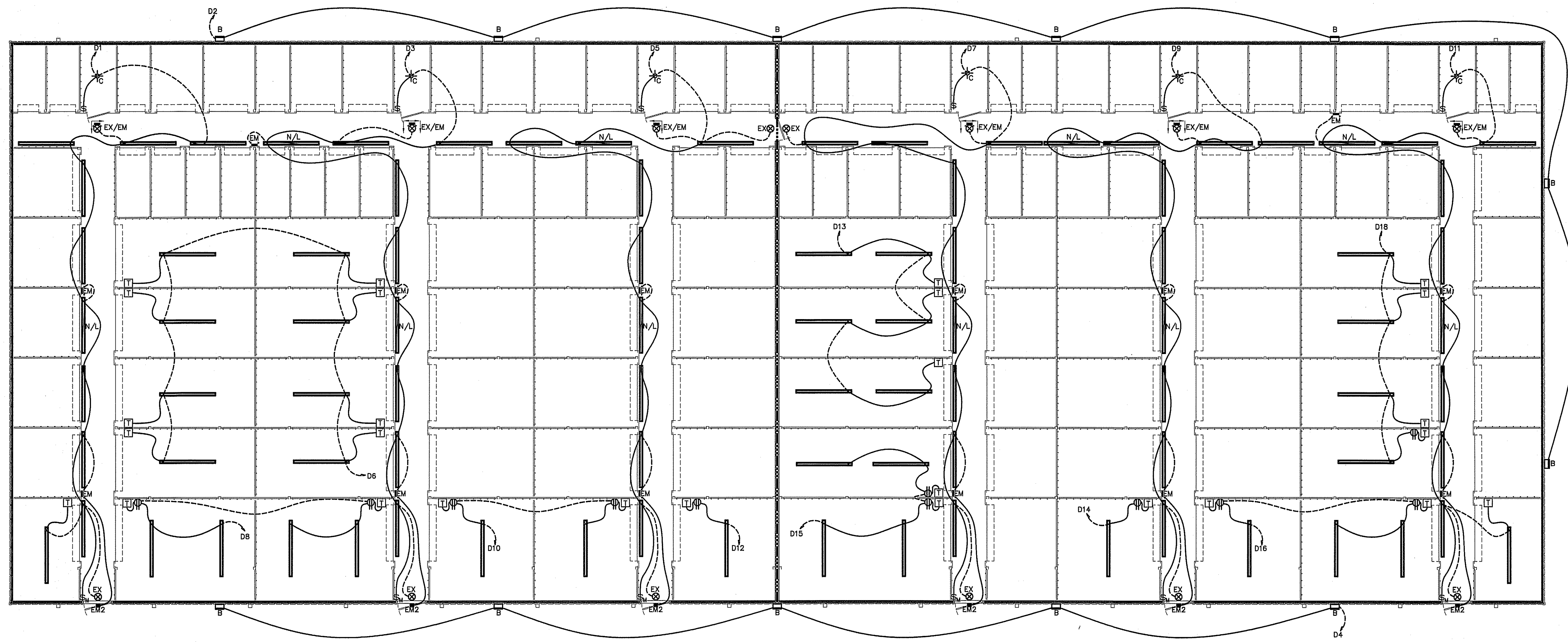
LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGLX48
B	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	VERIFY MOUNTING HEIGHT, OPTIONS BEFORE INSTALLATION
C	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB			LED A19		13	WITH WIRE GUARD
D	2X4 2 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG232FA01-UNV-1/2-EB10I	2-32W	1	56	
F	2X4 FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	LITHONIA	2PM3N G 3 32 18LD MVOLT 1/3 GEB10IS	3-32W	1	87	
G	2X4 3 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG332FA01-UNV-1/2-EB10I	3-32W	1	87	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				

1. ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *
2. SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL
3. LED WALLPACKS ON PHOTOCELL.

GENERAL NOTE:
1. VERIFY LOCATION OF WALL PACKS WITH OWNER & SITE LIGHTING PLAN BEFORE INSTALLATION.



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339



REVISIONS	
NO.	

Cruse And Associates, P.A.

414 EAST INDUSTRY STREET
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LICENSE NO.: C-1721

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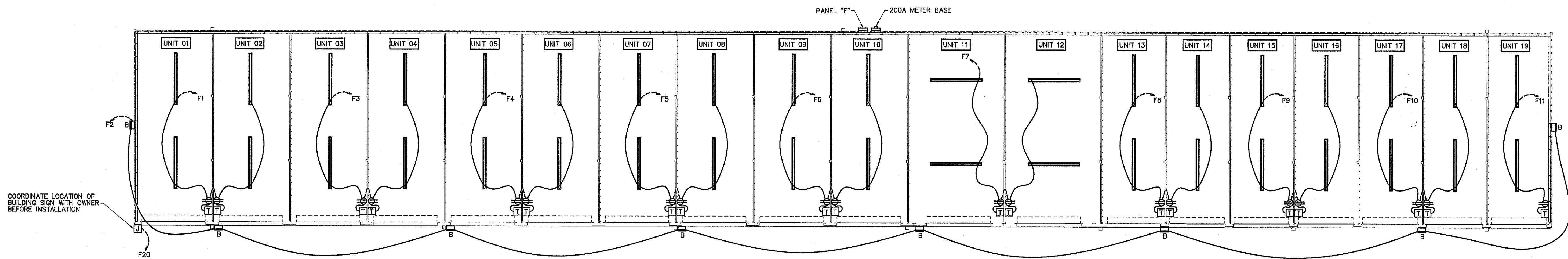
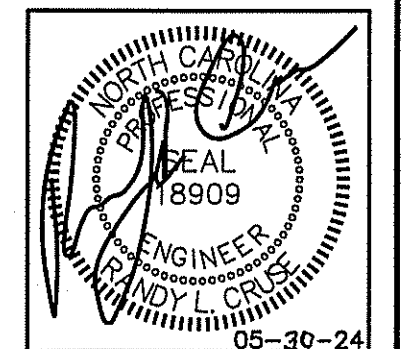
DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
E-2 OF 10

LEGEND
3 HOUR RATED WALL
U419

ELECTRICAL LIGHTING PLAN BUILDING "D"
SCALE: 1/8" = 1'-0"

GENERAL NOTE:
1. VERIFY LOCATION OF WALL PACKS WITH OWNER & SITE LIGHTING PLAN BEFORE INSTALLATION.

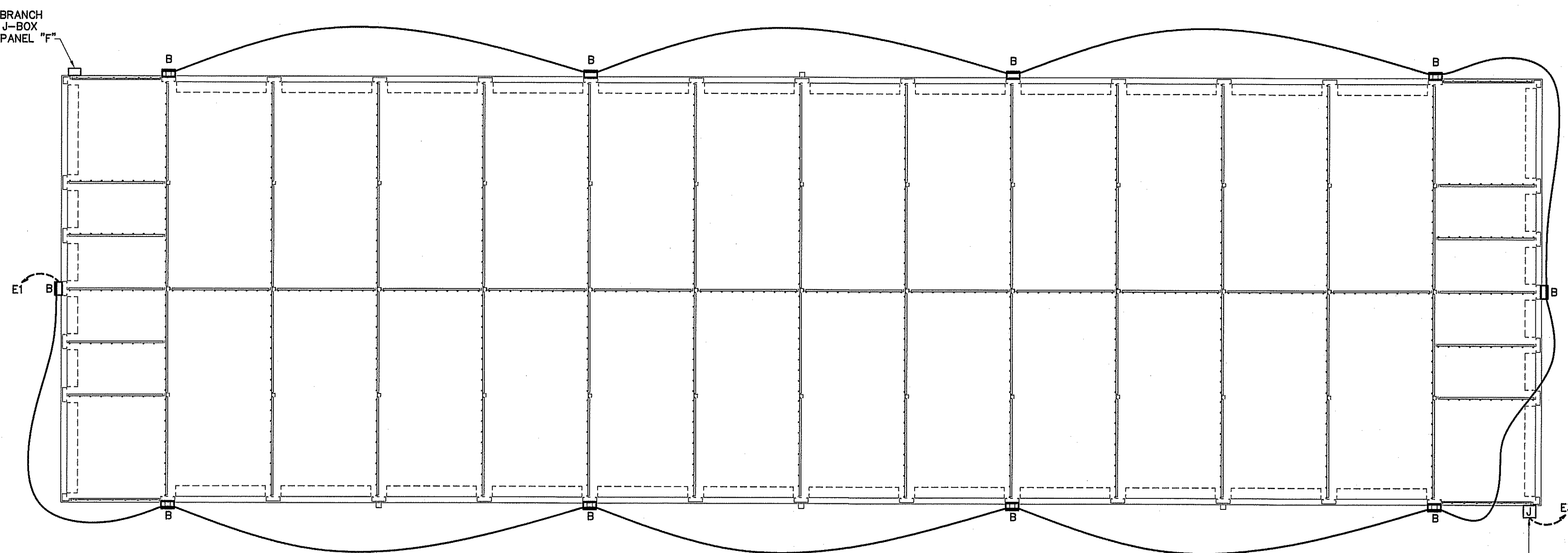


ELECTRICAL LIGHTING & POWER PLAN BUILDING "F"
SCALE: 1/8" = 1'-0"

LIGHTING DATA FOR N.C. ENERGY CODE BUILDING "F"					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	6,600	1.2	7,920	2,698	5,222
TOTAL	6,600		7,920	2,698	5,222

ELECTRICAL LEGEND	
MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
⊕	FLUORESCENT FIXTURE
⊕	SWITCHED BRANCH CIRCUIT
⊕	UNSWITCHED BRANCH CIRCUIT
⊕	120/208 VOLT CIRCUIT
⊕	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊕	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⊕	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
⊕	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

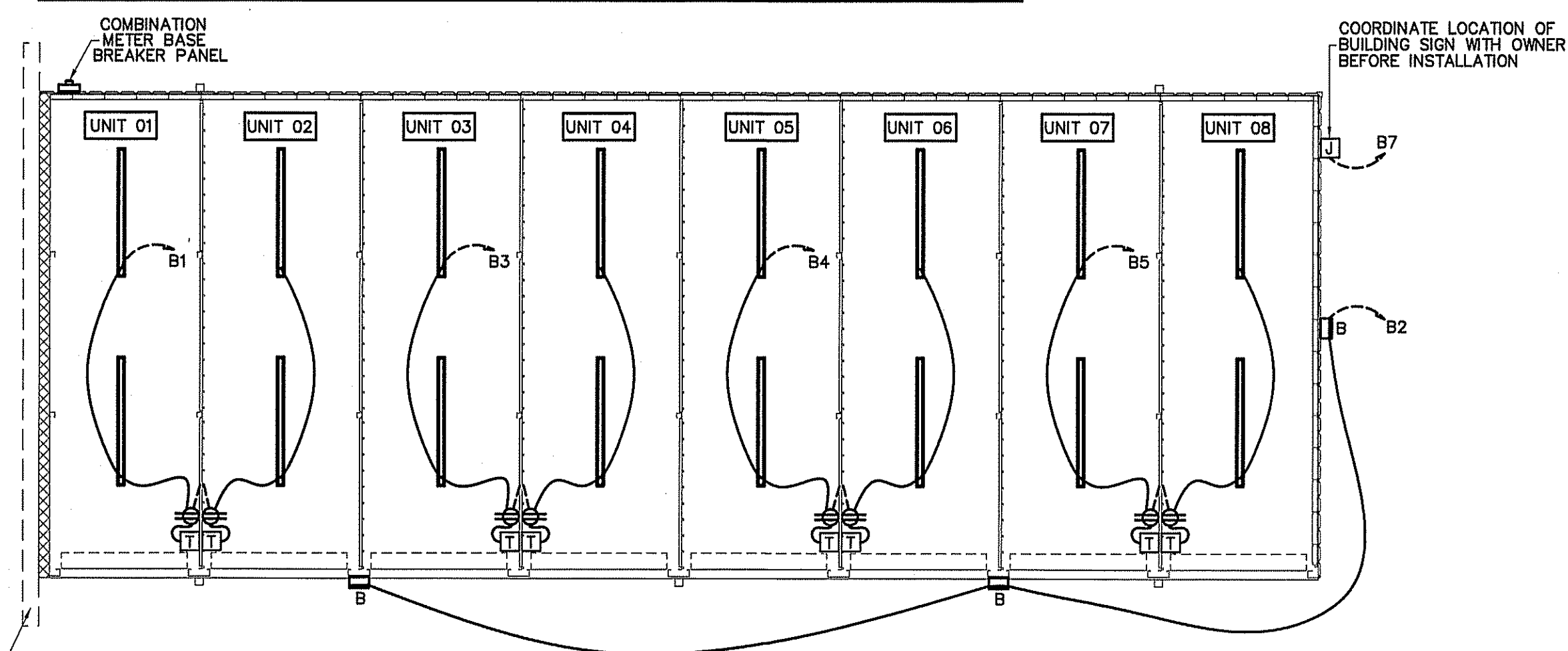
NOTE:
1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
2. COORDINATE LOCATION OF 'B' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
3. ALL FLUORESCENT LIGHTS IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
4. ALL HALLWAYS SWITCHES TO BE ON MOTION SENSORS OR SWITCHED AS INDICATED AND ON TIMERS OF 30 MINUTES. ALL UNIT SWITCHES & UNIT RECEPTACLES TO BE ON TIMER OF 30 MINUTES WITH NO HOLD MECHANISMS.
5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED, TIE TO SWITCH/TIMER IN EACH UNIT.
6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.



ELECTRICAL LIGHTING & POWER PLAN BUILDING "E"
SCALE: 1/8" = 1'-0"

LIGHTING DATA FOR N.C. ENERGY CODE BUILDING "B"					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	2,400	1.2	2,880	1,136	1,744
TOTAL	2,400		2,880	1,136	1,744

BUILDING "B"	
ELECTRICAL LOAD CALCULATIONS	
2,400 SQUARE FEET	VA
NONCONTINUOUS LOADS:	
8 RECEPTACLES @ 180 VA EA.	1440
1ST 10000 REMAINDER @ 50%	1440
TOTAL	1440
CONTINUOUS LOADS:	
GENERAL LIGHTING LOAD VA/SQ. FT.	
(STORAGE) 2,400 SQ. FT. 1.2	5400
5400 X 1.25	6750
EQUIPMENT	500
GRAND TOTAL	8,690
37 AMPS @ 120/240V, 1ϕ, 60HZ	



ELECTRICAL LIGHTING & POWER PLAN BUILDING "B"
SCALE: 1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGCLX48
B	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	VERIFY MOUNTING HEIGHT, OPTIONS BEFORE INSTALLATION
C	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB			LED	A19	13	WITH WIRE GUARD
D	2X4 2 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG232FA01-UNV-1/2-EB10I	2-32W	1	56	
F	2X4 FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	LITHONIA	2PM3N G 3 32 18LD MVOLT 1/3 GEB10IS	3-32W	1	87	
G	2X4 3 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG332FA01-UNV-1/2-EB10I	3-32W	1	87	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				

1. ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *
2. SIGN LETTERING TO BE ON TIMELOCK OR PHOTOCELL
3. LED WALLPACKS ON PHOTOCELL.

PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse And Associates, P.A.
414 EAST BROADWAY, STREET
FRI, NC 27834
PHONE: (919) 882-4429
FAX: (919) 882-5128
LICENSE NO.: C-1721

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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
E-3 OF 10

ELECTRICAL LEGEND	
MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
⊕	FLUORESCENT FIXTURE
↔	SWITCHED BRANCH CIRCUIT
↔	UNSWITCHED BRANCH CIRCUIT
↔	120/208 VOLT CIRCUIT
⊕	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊕	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⊕	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
⊕	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

NOTE:

1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
2. COORDINATE LOCATION OF 'B' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
3. ALL FLUORESCENT LIGHTS IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
4. ALL HALLWAYS SWITCHES TO BE ON MOTION SENSORS OR SWITCHED AS INDICATED AND ON TIMERS OF 30 MINUTES. ALL UNIT SWITCHES & UNIT RECEPTACLES TO BE ON TIMER OF 30 MINUTES WITH NO HOLD MECHANISMS.
5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.

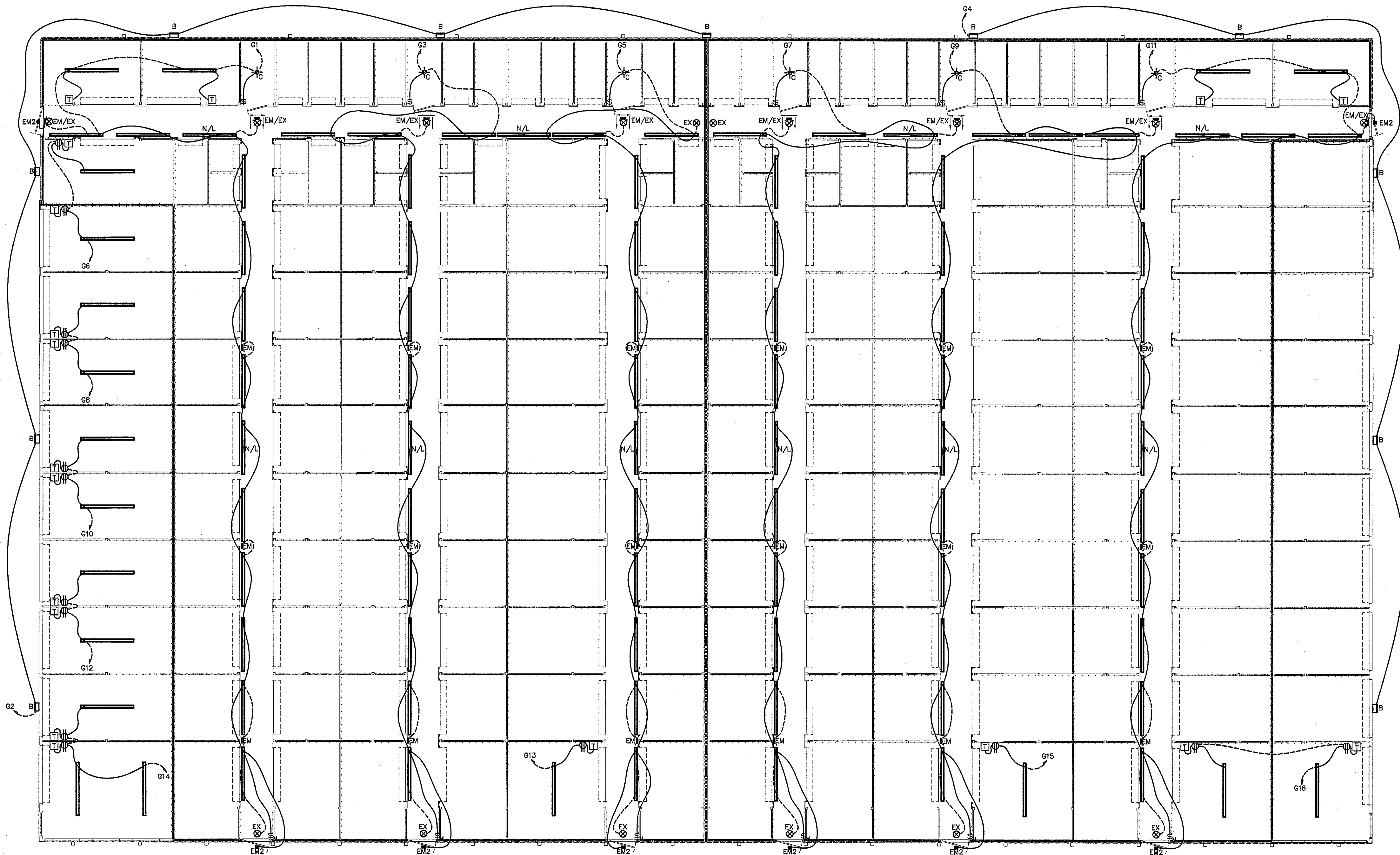
GENERAL NOTE:

1. VERIFY LOCATION OF WALL PACKS WITH OWNER & SITE LIGHTING PLAN BEFORE INSTALLATION.

LIGHTING DATA FOR N.C. ENERGY CODE BUILDING "G"					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	24,000	1.2	28,800	6,603	22,197
TOTAL	24,000		28,800	6,603	22,197

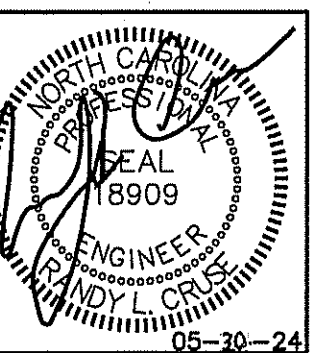
LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGLX48
B	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	VERIFY MOUNTING HEIGHT, OPTIONS BEFORE INSTALLATION
C	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB			LED A19		13	WITH WIRE GUARD
D	2X4 2 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG232FA01-UNV-1/2-EB10I	2-32W	1	56	
F	2X4 FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	LITHONIA	2PM3N G 3 32 18LD MVOLT 1/3 GE810IS	3-32W	1	87	
G	2X4 3 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG332FA01-UNV-1/2-EB10I	3-32W	1	87	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				

1. ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *
2. SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL
3. LED WALLPACKS ON PHOTOCELL.



ELECTRICAL LIGHTING PLAN BUILDING "G"
SCALE: 1/8" = 1'-0"

LEGEND
3 HOUR RATED WALL
U419



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

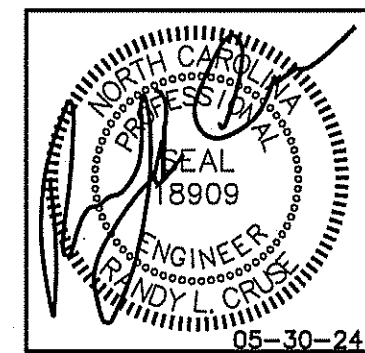
REVISIONS	
NO.	

Cruse And Associates, P.A.
414 EAST BROADWAY STREET
RTE. 1010 895-4459
FAX: (810) 895-1162
LICENSE NO.: C-1721

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DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
E-4 OF 10



PLANS FOR:
AMPLE STORAGE
 ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

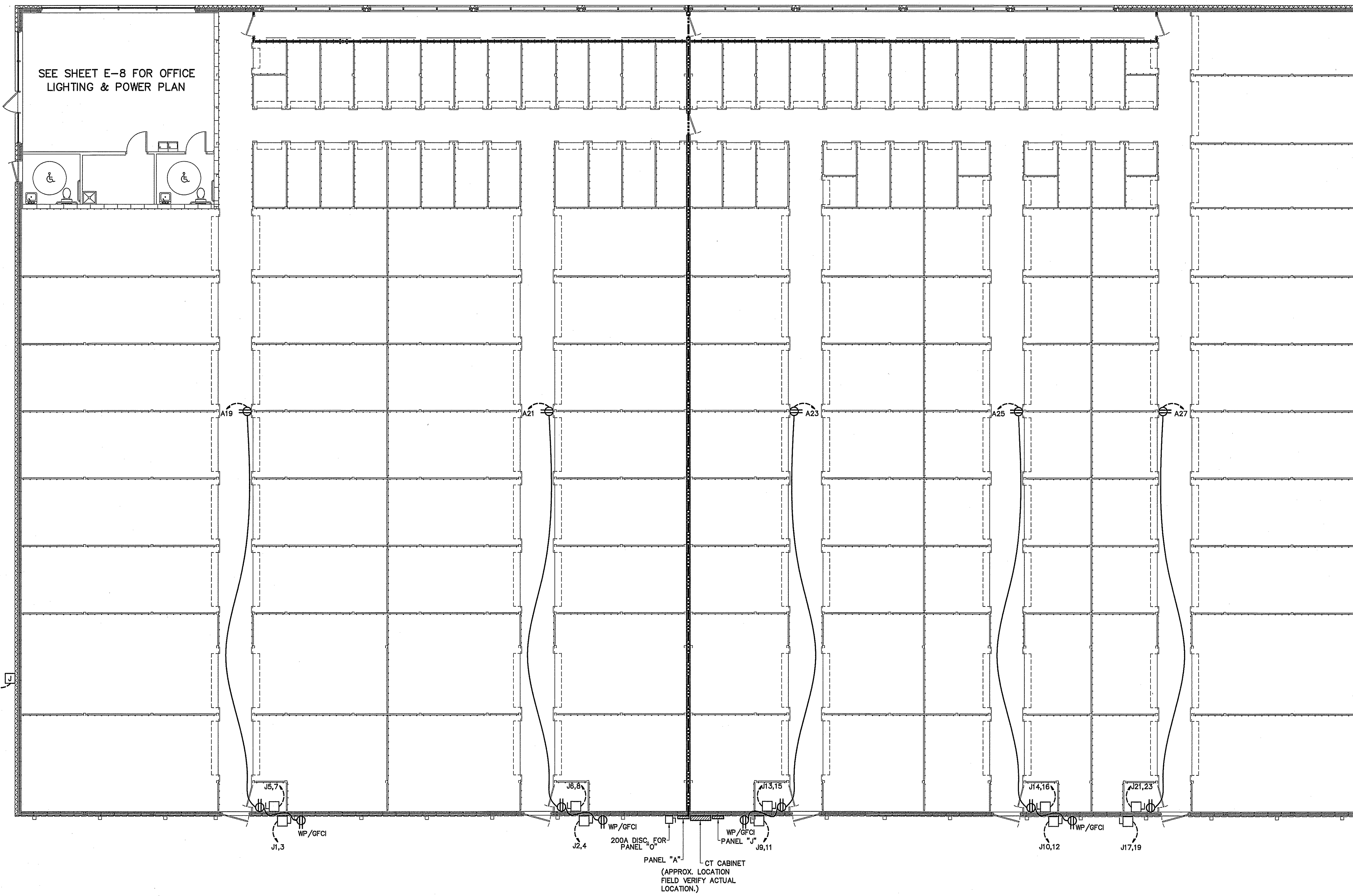
Cruse And Associates, P.A.
 414 EAST ROBERTSON STREET
 RALEIGH, NC 27601
 PH: (919) 882-4459
 FAX: (919) 882-5182
 LICENSE NO.: C-1721

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 DRAWN BY BAM
 JOB NO. 24-23
 SHEET NO. E-5 OF 10

- NOTE:**
1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
 2. COORDINATE LOCATION OF 8' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
 3. ALL FLUORESCENT LIGHTS IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
 4. ALL HALLWAYS SWITCHES TO BE ON MOTION SENSORS OR SWITCHED AS INDICATED AND ON TIMERS OF 30 MINUTES. ALL UNIT SWITCHES & UNIT RECEPTACLES TO BE ON TIMER OF 30 MINUTES WITH NO HOLD MECHANISMS.
 5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
 6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.

MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
▭	FLUORESCENT FIXTURE
↔	SWITCHED BRANCH CIRCUIT
↔	UNSWITCHED BRANCH CIRCUIT
↔	120/208 VOLT CIRCUIT
⊕	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊕	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⊕	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
⊕	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)



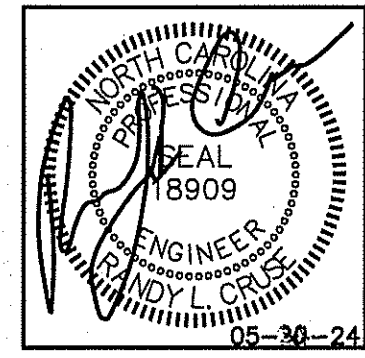
ELECTRICAL POWER PLAN BUILDING "A"
 SCALE: 1/8" = 1'-0"

LEGEND
 3 HOUR RATED WALL
 U419

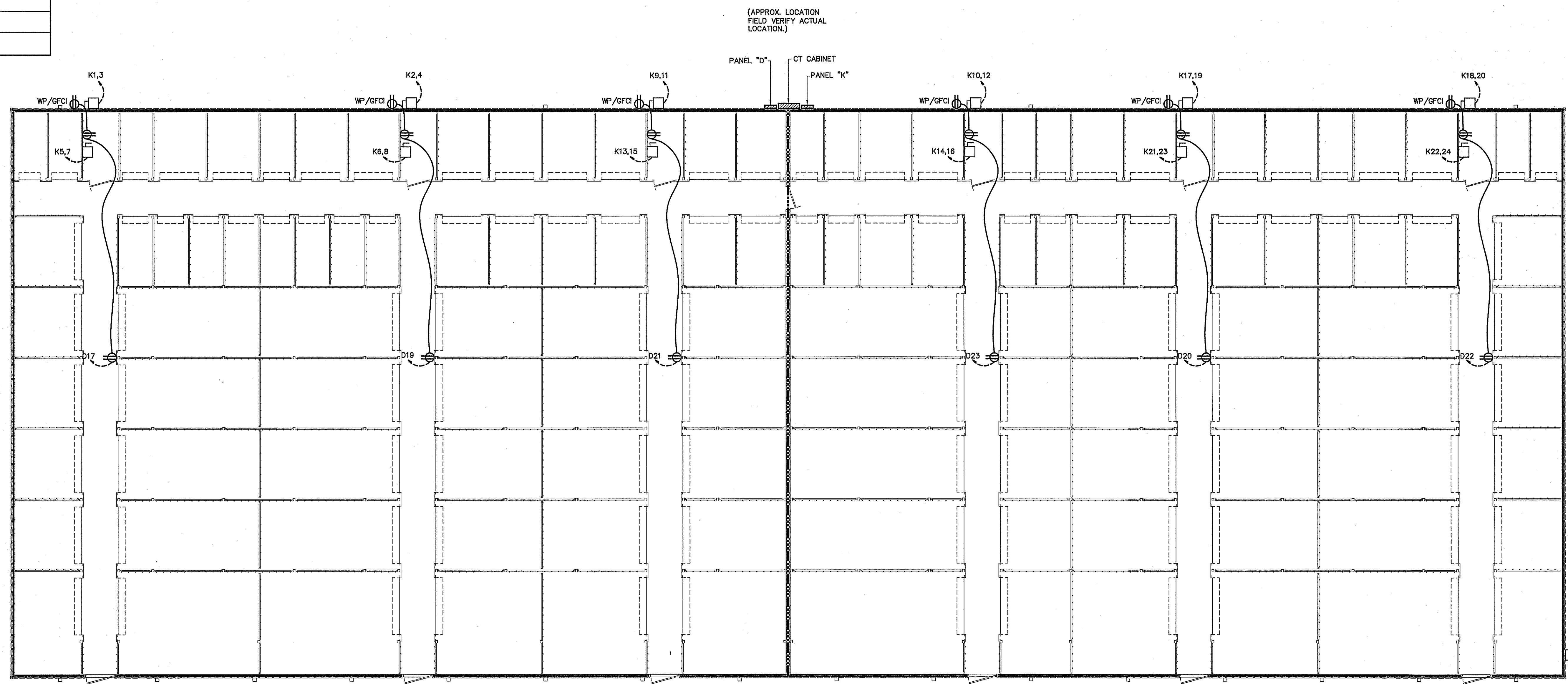
MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊖	DUPLEX RECEPTACLE
⊞	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊞	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
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NOTE:

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5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339



NO.	REVISIONS

Cruse And Associates, P.A.
 414 EAST HOBERTON STREET
 ERWIN, NC 28339
 PH: (710) 892-4429
 FAX: (710) 892-5182
 LICENSE NO.: C-1721

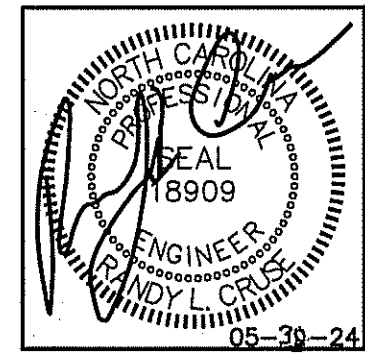
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VERIFY LOCATION OF SIGN WITH OWNER BEFORE INSTALLATION

LEGEND
 - - - - - 3 HOUR RATED WALL
 U419

ELECTRICAL POWER PLAN BUILDING "D"
 SCALE: 1/8" = 1'-0"

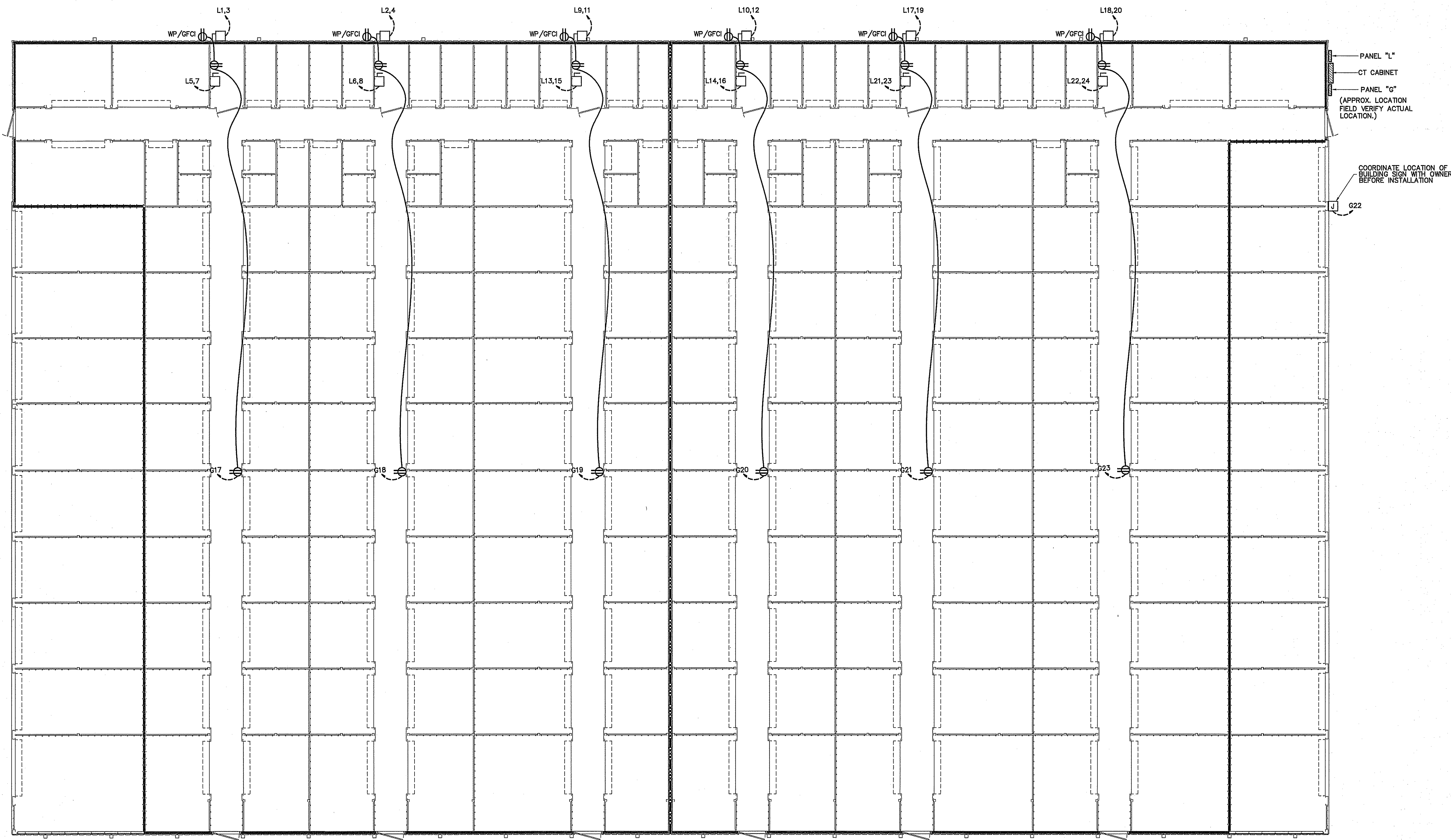
DATE 05/30/24
 DRAWN BY BAM
 JOB NO. 24-23
 SHEET NO.
E-6 OF 10



ELECTRICAL LEGEND	
MARK	DESCRIPTION
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE
	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
	FLUORESCENT FIXTURE
	SWITCHED BRANCH CIRCUIT
	UNSWITCHED BRANCH CIRCUIT
	120/208 VOLT CIRCUIT
	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
	'EXIT' LIGHT FIXTURE, TYPE 'EX'
	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
	CEILING MOUNTED FUSED DISCONNECT SWITCH
	TELEPHONE
	JUNCTION BOX
	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
	UNSWITCHED FIXTURE
	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
	280V RECEPTACLE
	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

NOTE:

1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
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5. RECEPTACLES IN EACH UNIT ARE TO BE SWITCHED. TIE TO SWITCH/TIMER IN EACH UNIT.
6. VERIFY NIGHT LIGHTS AND PERMANENT BURN FIXTURES WITH OWNER BEFORE WIRING.



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse
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TEL: (919) 885-4428
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LICENSE NO.: C-1721

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JOB NO. 24-23
SHEET NO.
E-7 OF 10

LEGEND
3 HOUR RATED WALL
U419

ELECTRICAL POWER PLAN BUILDING "G"
SCALE: 1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 1000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGLX48
B	OUTDOOR LED WALL LIGHT	LSI	TWR1 LED 3 50K MVOLT	LED	LED	58.4	VERIFY MOUNTING HEIGHT, OPTIONS BEFORE INSTALLATION
C	KEYLESS FIXTURE WITH WIREGUARD AND LED BULB			LED	A19	13	WITH WIRE GUARD
D	2X4 2 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG232FA01-UNV-1/2-EB10I	2-32W	1	56	
F	2X4 FLUORESCENT LAY-IN WITH 18 CELL PARABOLIC LENSE	LITHONIA	2PM3N G 3 32 18LD MVOLT 1/3 GEB10IS	3-32W	1	87	
G	2X4 3 LAMP FLUORESCENT LAY-IN WITH ACRYLIC LENSE	DAYBRITE	2SPG332FA01-UNV-1/2-EB10I	3-32W	1	87	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				

1. ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *
2. SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL
3. LED WALLPACKS ON PHOTOCELL.

LIGHTING DATA FOR S.C. ENERGY CODE (OFFICE)

AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
OFFICE	900	1.0	900	721	179
TOTAL	8400	900	721	179	

OFFICE

FEEDER SCHEDULE

UNIT	FEEDERS	FUSED DISCONNECT	CONDUIT
AHU 1B	2#8CU, 1#10CU GD	60	3/4"
HP 1B	2#10CU, 1#12CU GD	60	3/4"
P.O.U. WATER HEATERS	2#10CU, 1#12CU GD	30	3/4"

OFFICE

ELECTRICAL LOAD CALCULATIONS
900 SQUARE FEET VA.

NONCONTINUOUS LOADS:
23 RECEPTACLES @ 180 VA EA. 4,140
1ST 10000 4,140
REMAINDER @ 50% 0
4,140

CONTINUOUS LOADS:
GENERAL LIGHTING LOAD VA/SQ. FT. (OFFICE)
900 SQ. FT. 1.3 1,170
1,170 X 1.25 1,463
TOTAL 1,463

AIR HANDLING UNIT 7,680
HEAT PUMP 3,840
EQUIPMENT: 10,272
25% OF LARGEST MOTOR 1,820
GRAND TOTAL 29,235

122 AMPS @ 120/240V, 1ϕ, 60HZ

OFFICE

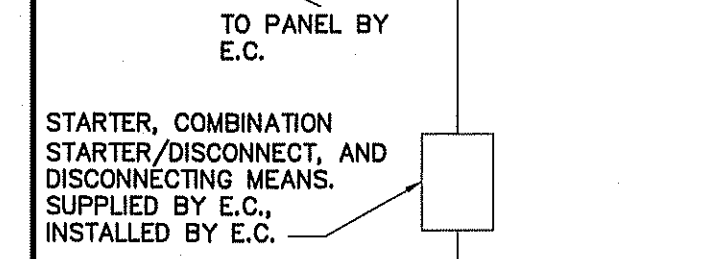
PANEL: O SCHEDULE: MANUFACTURER: SQ. D NO. OF SPACES 42
VOLTS: 120/240 AMPS: 200 TYPE: 'NQDD' MOUNTING FLUSH
ENCLOSURE: NEMA 1 0:1 SHORT CIRCUIT RATING: 10000
MARK: IS TOP FEED: IS BOTTOM FEED: IS COPPER BUS: IS GROUND BAR KIT: IS NEUTRAL BAR KIT: IS

NOTE:
VERIFY AIC RATING WITH UTILITY COMPANY BEFORE ORDERING PANELS.

L1	L2	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2
6.0		1	1	20	OFFICE RECEPTACLES	o	SPARE	20	1	2	X	
18.8		3	2	25	POINT OF USE WATER HEATER	o	OFFICE CEILING RECEPTACLES	20	1	4		6.0
18.8		5				o	OFFICE RECEPTACLES	20	1	6	4.5	
18.8		7	2	25	POINT OF USE WATER HEATER	o	HEAT PUMP UNIT # 18	35	2	8	16.0	
18.8		9				o				10	16.0	
X		3.0	11	1	HVAC CONV. RECEPTACLES	o	AIR HANDLER UNIT # 18	45	2	12		32.0
X		13			SPARE	o				14	32.0	
X		3.0	15		PHONE/ELECT. ROOM REC.	o	PHONE/ELECT. ROOM REC.	20	1	16		4.5
9.0		17	1	20	INTERIOR OFFICE LIGHTS	o	SPARE	20	1	18	X	
X		19	1	20	SPARE	o	SPARE	20	1	20		X
6.0		21			COUNTER QUAD RECEPTACLES	o	WALLPACKS	20	1	22	1.0	
X		5.0	23		BUILDING SIGN	o	HOTBOX	20	1	24		2.0
X		25	1	20	SPARE	o	SPARE	20	1	28	X	
X		27	1	20	SPARE	o	DRINKING FOUNTAIN	20	1	28		5.6
X		29	1	20	SPARE	o	SPARE	20	1	30	X	
X		31	1	20	SPARE	o	SPARE	20	1	32		X
X		33	1	20	SPARE	o	SPARE	20	1	34	X	
X		35	1	20	SPARE	o	SPARE	20	1	36		X
X		37	1	20	SPARE	o	SPARE	20	1	38	X	
X		39	1	20	SPARE	o	SPARE	20	1	40		X
X		41	1	20	SPARE	o	SPARE	20	1	42	X	

L1 = 112.1 A
L2 = 114.7 A

CONNECTION SCHEDULE



ALL STARTERS, COMBINATION STARTER/DISCONNECTS, AND DISCONNECTING MEANS, SUPPLIED BY E.C. FOR MECHANICAL EQUIPMENT AS REQUIRED BY NEC AND MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS.

SEE CIVIL PLAN SHEET FOR EXACT LOCATION OF HOTBOX

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY CODE: ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE
PRESCRIPTIVE PERFORMANCE

REFER TO DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULES

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE: SEE SCHEDULE

NUMBER OF LAMPS IN FIXTURE:

BALLASTS TYPE USED IN FIXTURE:

NUMBER OF BALLASTS IN FIXTURE:

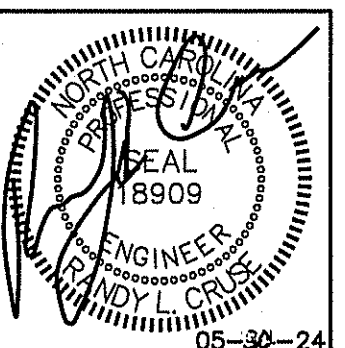
TOTAL WATTAGE PER FIXTURE:

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED:

TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- 506.2.2 REDUCED LIGHTING POWER DENSITY
- 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
- 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
- 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
- 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS



PLANS FOR:
AMPLE STORAGE
ERWIN, NORTH CAROLINA 28339

REVISIONS

NO.	

Cruse And Associates, P.A.
414 EAST BROADWAY STREET, SUITE 200
Raleigh, NC 27601
TEL: (919) 882-4429
FAX: (919) 882-5122
LICENSE NO.: C-1721

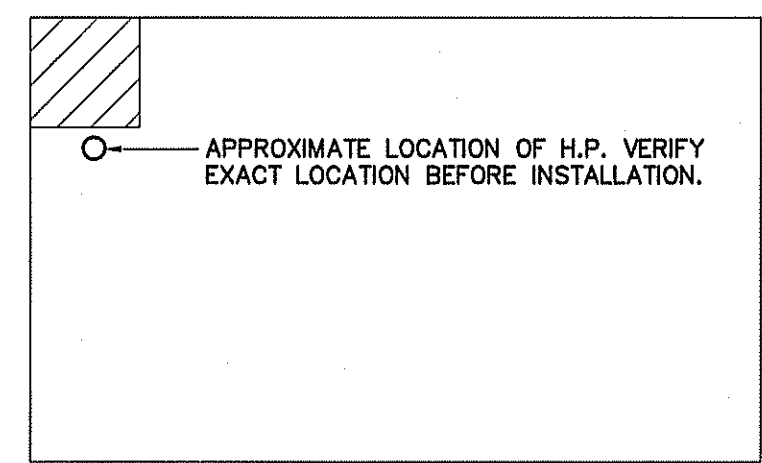
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DATE 05/30/24
DRAWN BY BAM
JOB NO. 24-23

SHEET NO.
E-8 OF 10

ELECTRICAL LEGEND

MARK	DESCRIPTION
⊕	QUAD RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	HIGH WALL MOUNTED DUPLEX RECEPTACLE APPROXIMATELY 12" BELOW CEILING
⊕	FLUORESCENT FIXTURE
⊕	SWITCHED BRANCH CIRCUIT
⊕	UNSWITCHED BRANCH CIRCUIT
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⊕	FUSED DISCONNECT SWITCH
⊕	CEILING MOUNTED FUSED DISCONNECT SWITCH
⊕	TELEPHONE/DATA
⊕	JUNCTION BOX
⊕	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
⊕	UNSWITCHED FIXTURE
⊕	N/L
⊕	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
⊕	280V RECEPTACLE
⊕	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

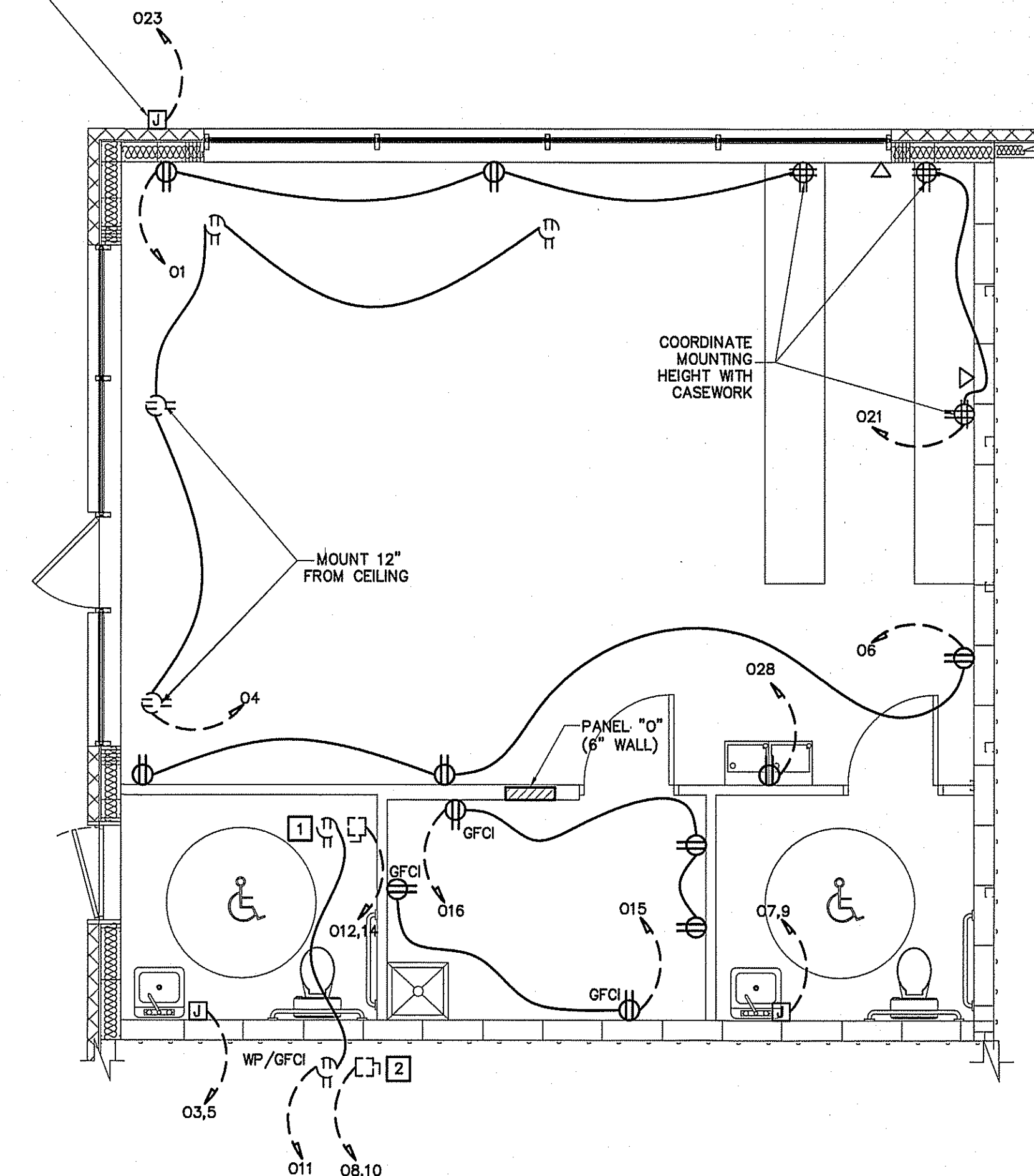


KEY PLAN

SCALE: NTS

NOTE:
COORDINATE LOCATION OF SECURITY, CATV, INTERNET, PHONE, OR OTHER SYSTEMS OUTLETS WITH OWNER BEFORE BEGINNING CONSTRUCTION.

FOR SIGN, FIELD VERIFY LOCATION



KEYNOTES:

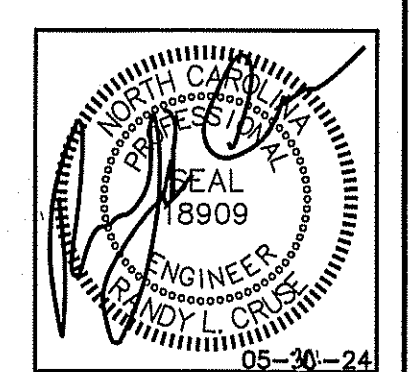
- 1 AIR HANDLER & CONV. RECEPTACLE FOR AIR HANDLER LOCATED ON ABOVE CEILING. VERIFY EXACT LOCATION BEFORE INSTALLATION.
- 2 HEAT PUMP & CONV. RECEPTACLE FOR HEAT PUMP LOCATED ON ROOF. VERIFY EXACT LOCATION BEFORE INSTALLATION.

ELECTRICAL LIGHTING PLAN BUILDING "A" (OFFICE)

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

ELECTRICAL POWER PLAN BUILDING "A" (OFFICE)

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



PLANS FOR: AMPLE STORAGE ERWIN, NORTH CAROLINA 28339

Table with 2 columns: NO., REVISIONS

414 EAST ROBERTSON STREET, ERWIN, NC 28339, PH: (704) 982-4429, FAX: (704) 982-5102

Cruse And Associates, P.A. LICENSE NO. C-1721

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DATE 05/30/24 DRAWN BY BAM JOB NO. 24-23

SHEET NO. E-9 OF 10

ELECTRICAL NOTES (GENERAL)

- 1. THE ELECTRICAL INSTALLATION, EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL, AS A MINIMUM, BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES, LAWS, AND ORDINANCES, AND RULINGS OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. ALL FEES, PERMITS, ETC., ASSOCIATED WITH THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. THE DRAWINGS GENERALLY INDICATE THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, BOXES, FITTINGS, AND SPECIALTIES WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SUCH ITEMS REQUIRED TO COMPLETE THE INSTALLATION ACCORDING TO INDUSTRY ACCEPTED PRACTICES SHALL BE INCLUDED IN THE BID.
3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. APPARENT INTERFERENCES OR CONFLICTS SHALL BE REPORTED TO THE PRIME CONTRACTOR AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
5. THE ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUITS TO THE MAIN LINE TERMINALS OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY NECESSARY SWITCHES, DISCONNECTS, OR OVERCURRENT PROTECTION AHEAD OF SUCH EQUIPMENT.
6. RACEWAYS ARE SHOWN SCHEMATICALLY AND MAY BE REROUTED IN THE FIELD. THEY SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES. THEY SHALL BE RUN CONCEALED WITHIN WALLS OR BUILDING STRUCTURES WHEREVER POSSIBLE.
7. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 3/4"; 1/2" MAY BE USED FOR SWITCH LEGS.
8. FULL WEIGHT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN THE FOLLOWING AREAS:
A. ON THE EXTERIOR OF THE BUILDING OR ROOF.
B. VERTICAL DROPS WHERE THE CONDUIT CANNOT BE ANCHORED TO WALLS OR OTHER SUPPORT STRUCTURES.
C. WHERE SUBJECT TO MECHANICAL DAMAGE.
D. UNDER FLOOR INSTALLATIONS.
9. ALL WIRE AND CABLE SHALL BE ALUMINUM OR COPPER AND HAVE 600 VOLT THHN-THWN INSULATION.
10. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #16 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.
11. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL OF THE RECEPTACLE.
12. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT.
13. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS IN ACCORDANCE WITH UL PENETRATION DETAIL W-J-1042.
14. NO. CU 10 AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOMERUNS EXCEEDING 50 FT. TO THE JUNCTION POINT. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 10 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 100 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 8 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 200 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 6 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 400 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT SHALL NOT EXCEED 500' FEET IN TOTAL LENGTH.

BUILDING "A" ELECTRICAL LOAD CALCULATIONS. 23,800 SQUARE FEET. NONCONTINUOUS LOADS: 61 RECEPTACLES @ 180 VA EA. 10980, 1ST 10000 REMAINDER @ 50% 10000, 490. TOTAL 10490. CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT. (STORAGE) 23,800 SQ. FT. 1.2 28560, 35700. AIR HANDLER UNIT 38400, HEAT PUMPS 27744, EQUIPMENT 300. 25% OF LARGEST MOTOR 1134. GRAND TOTAL 113,768. 474 AMPS @ 120/240V, 1φ, 60HZ

BUILDING "D" ELECTRICAL LOAD CALCULATIONS. 17,600 SQUARE FEET. NONCONTINUOUS LOADS: 30 RECEPTACLES @ 180 VA EA. 5400, 1ST 10000 REMAINDER @ 50% 5400. TOTAL 5400. CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT. (STORAGE) 17,600 SQ. FT. 1.2 21120, 26400. AIR HANDLER UNIT 46080, HEAT PUMPS 20736, EQUIPMENT 300. 25% OF LARGEST MOTOR 1134. GRAND TOTAL 100,050. 417 AMPS @ 120/240V, 1φ, 60HZ

BUILDING "B" (METERBASE COMBINATION) PANEL: B SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 30 VOLTS 120/240 AMPS 100 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "G" ELECTRICAL LOAD CALCULATIONS. 24,000 SQUARE FEET. NONCONTINUOUS LOADS: 32 RECEPTACLES @ 180 VA EA. 5760, 1ST 10000 REMAINDER @ 50% 5760. TOTAL 5760. CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT. (STORAGE) 24,000 SQ. FT. 1.2 28,800, 36000. AIR HANDLER UNIT 46080, HEAT PUMPS 24096, EQUIPMENT 300. 25% OF LARGEST MOTOR 1134. GRAND TOTAL 113,370. 473 AMPS @ 120/240V, 1φ, 60HZ

- ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: ENERGY CODE: PRESCRIPTIVE [X] PERFORMANCE [], ASHRAE 90.1: PRESCRIPTIVE [], PERFORMANCE []. REFER TO DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULES. LIGHTING SCHEDULE: LAMP TYPE REQUIRED IN FIXTURE: SEE SCHEDULE. NUMBER OF LAMPS IN FIXTURE: BALLASTS TYPE USED IN FIXTURE: NUMBER OF BALLASTS IN FIXTURE: TOTAL WATTAGE PER FIXTURE: TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: ADDITIONAL PRESCRIPTIVE COMPLIANCE: 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT [X], 506.2.2 REDUCED LIGHTING POWER DENSITY [], 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS [], 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING [], 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY [], 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS []

NOTE: NEMA 3R PANELS ARE LOCATED ON THE EXTERIOR OF THE BUILDING.

NOTE: VERIFY AIC RATING WITH UTILITY COMPANY BEFORE ORDERING PANELS.

BUILDING "A" PANEL: A SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 200 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "A" PANEL: J SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 400 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

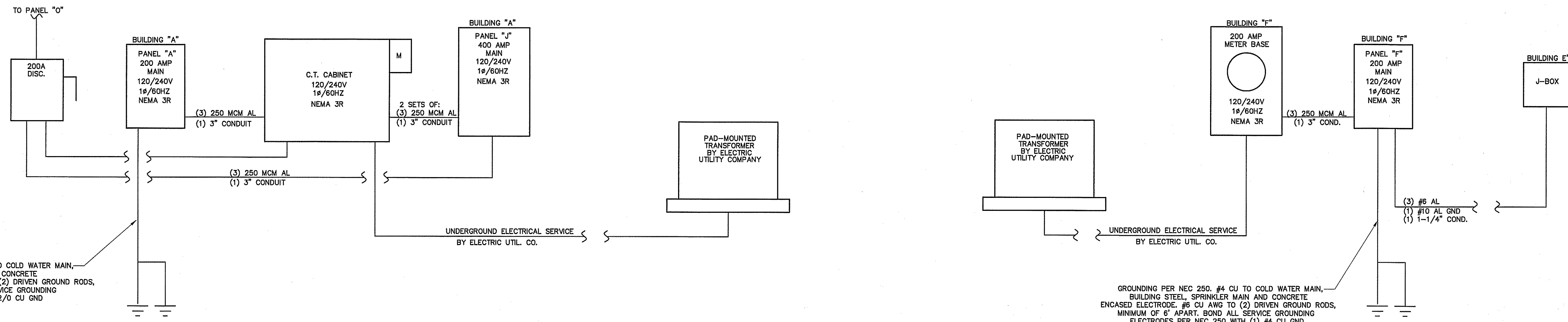
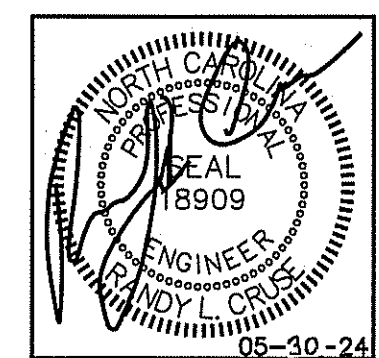
BUILDING "D" PANEL: D SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 200 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "D" PANEL: K SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 400 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "G" PANEL: G SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 200 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "G" PANEL: L SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 42 VOLTS 120/240 AMPS 400 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.

BUILDING "F" PANEL: F SCHEDULE: MANUFACTURER: SQ_D NO. OF SPACES 30 VOLTS 120/240 AMPS 200 TYPE: "NOOD" MOUNTING: SURFACE ENCLOSURE: NEMA 3R Φ-1 SHORT CIRCUIT RATING: 22K. Table with columns: L1, L2, CIRCUIT, POLES, TRIP, ASSIGNMENT, PHASE, ASSIGNMENT, TRIP, POLES, CIRCUIT, L1, L2.



GROUNDING PER NEC 250, #2/0 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE, #6 CU AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) #2/0 CU GND

ELECTRICAL RISER DIAGRAM BUILDING "A"
NOT TO SCALE

GROUNDING PER NEC 250, #4 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE, #6 CU AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) #4 CU GND

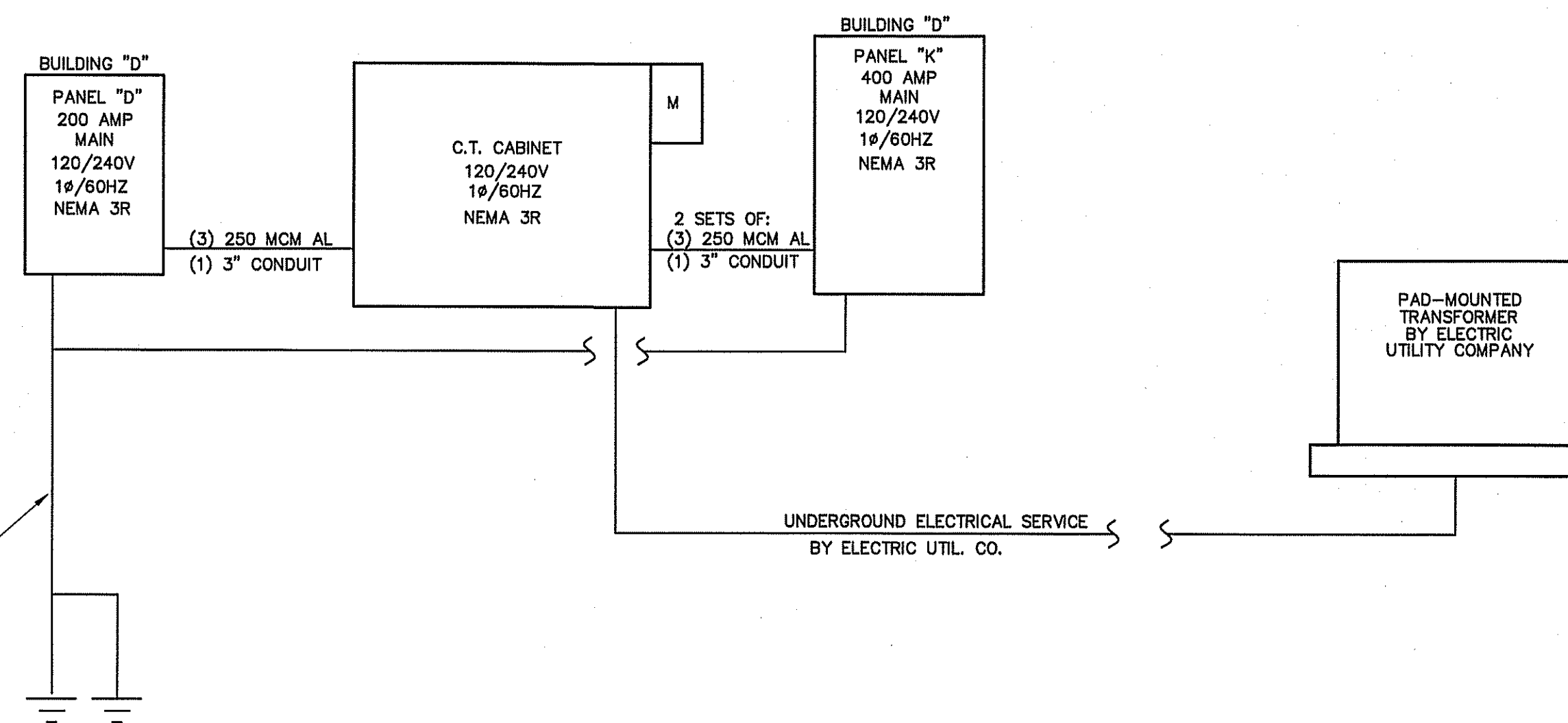
ELECTRICAL RISER DIAGRAM BUILDINGS "E" & "F"
NOT TO SCALE

BUILDING "F" & E

ELECTRICAL LOAD CALCULATIONS		VA.
12,200 SQUARE FEET		
NONCONTINUOUS LOADS:		
19 RECEPTACLES @ 180 VA EA.	3420	3420
1ST 10000 REMAINDER @ 50%		
TOTAL		3420
CONTINUOUS LOADS:		
GENERAL LIGHTING LOAD VA/SQ. FT.		
(STORAGE) 12,200 SQ. FT. 1.2	14640	18300
14640 X 1.25		
EQUIPMENT	500	
GRAND TOTAL	22,220	
93 AMPS @ 120/240V, 1φ, 60HZ		

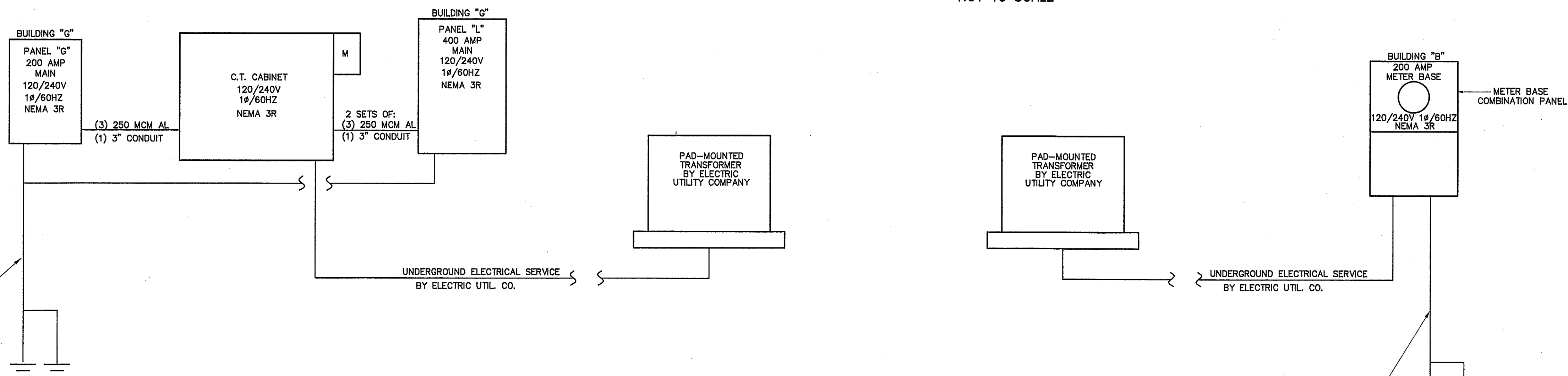
BUILDING "B"

ELECTRICAL LOAD CALCULATIONS		VA.
2,400 SQUARE FEET		
NONCONTINUOUS LOADS:		
8 RECEPTACLES @ 180 VA EA.	1440	1440
1ST 10000 REMAINDER @ 50%		
TOTAL		1440
CONTINUOUS LOADS:		
GENERAL LIGHTING LOAD VA/SQ. FT.		
(STORAGE) 2,400 SQ. FT. 1.2	5400	6750
5400 X 1.25		
EQUIPMENT	500	
GRAND TOTAL	6,690	
37 AMPS @ 120/240V, 1φ, 60HZ		



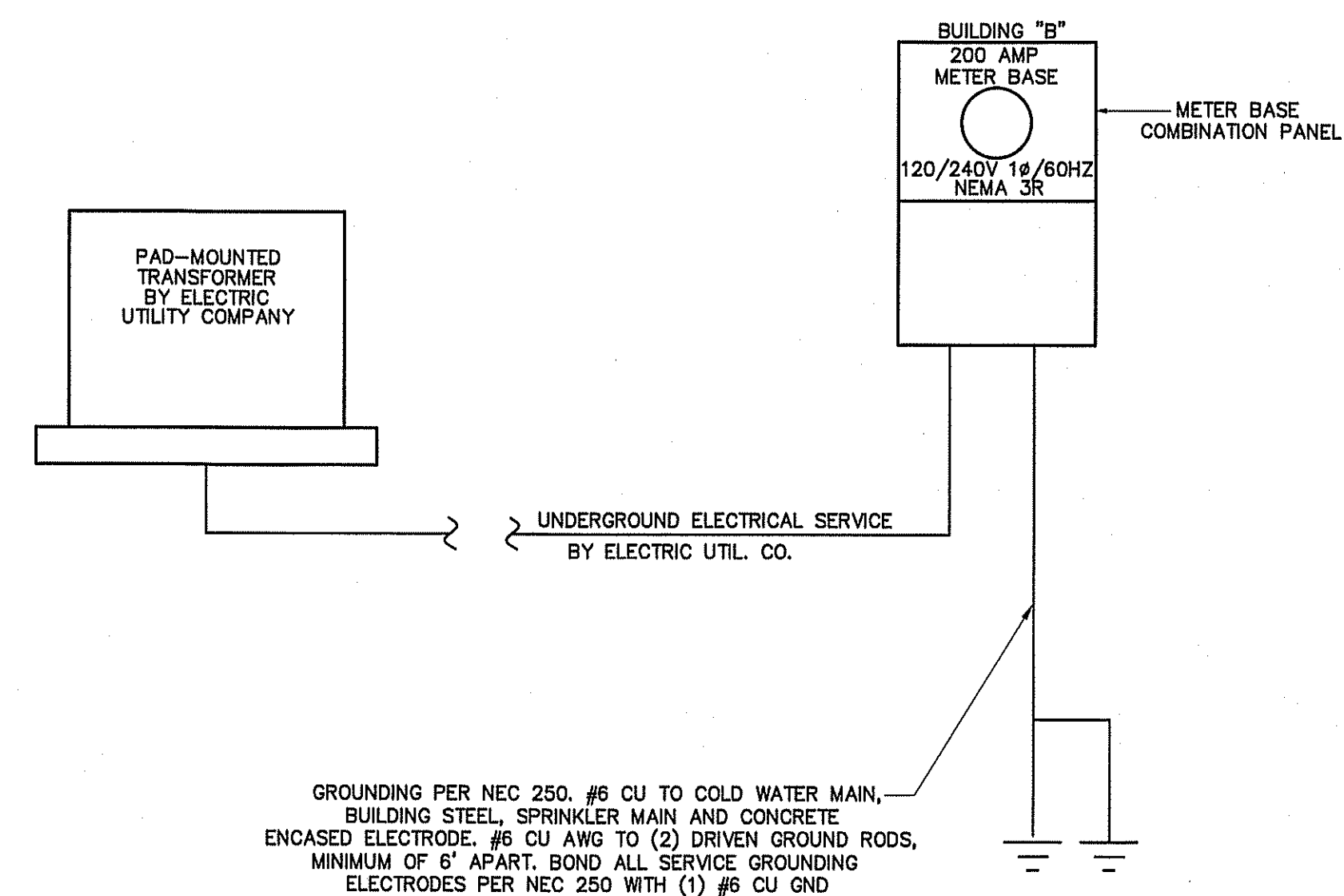
GROUNDING PER NEC 250, #2/0 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE, #6 CU AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) #2/0 CU GND

ELECTRICAL RISER DIAGRAM BUILDING "D"
NOT TO SCALE



GROUNDING PER NEC 250, #2/0 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE, #6 CU AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) #2/0 CU GND

ELECTRICAL RISER DIAGRAM BUILDING "G"
NOT TO SCALE



GROUNDING PER NEC 250, #6 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE, #6 CU AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) #6 CU GND

ELECTRICAL RISER DIAGRAM BUILDING "B"
NOT TO SCALE

PLANS FOR:
AMPLE STORAGE
 ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse And Associates, P.A.
 414 EAST ROBERTSON STREET
 FAYETTEVILLE, NC 28404
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 LICENSE NO.: C-1721

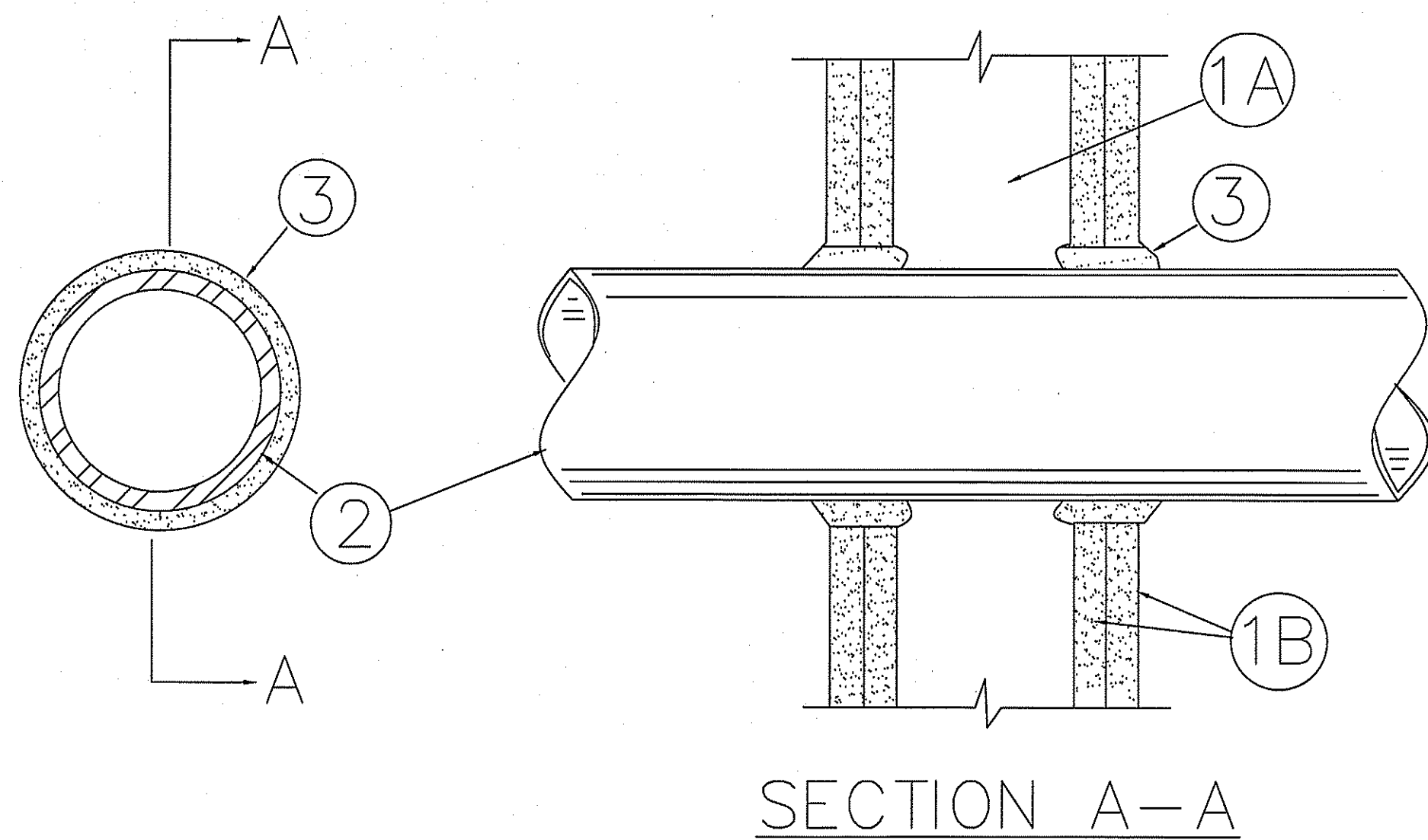
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DATE	05/30/24
DRAWN BY	BAM
JOB NO.	24-23
SHEET NO.	E-10 OF 10

System No. W-L-1001

June 15, 2005

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
 T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
 L Rating At Ambient — less than 1 CFM/sq ft
 L Rating At 400 F — less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the Individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min of 0 in. (0 mm), (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product* — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

3. Fill, Void or Cavity Material* — Caulk or Sealant — Min 5/8 in., 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in (mm)	F Rating Hr	T Rating Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

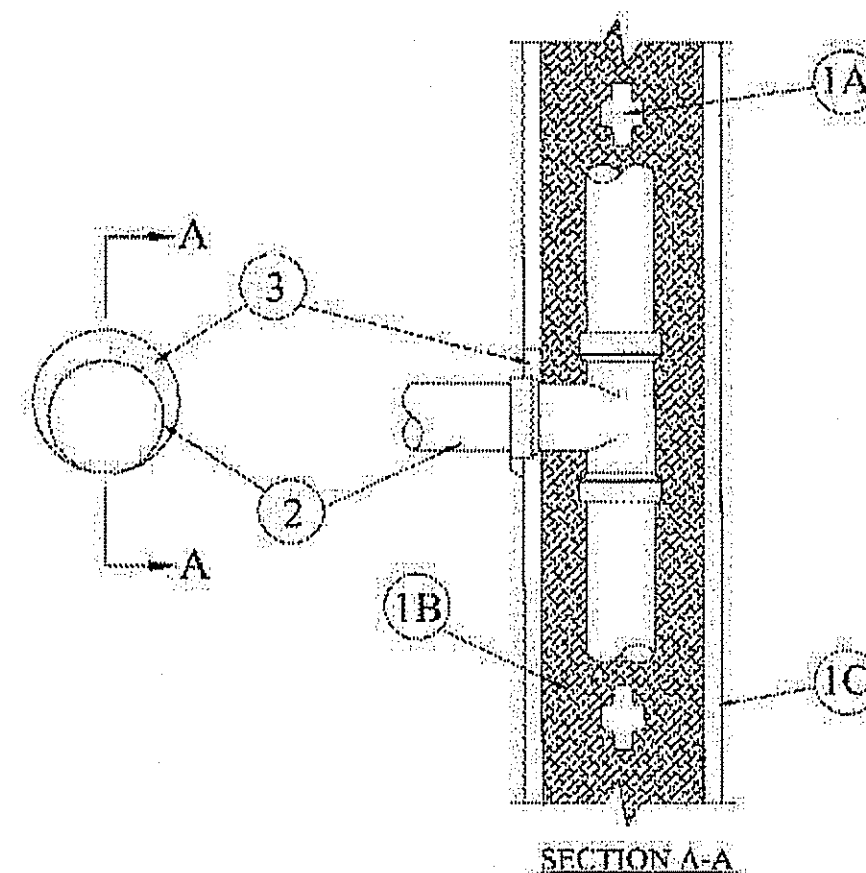
3M COMPANY ? CP 25WB+ or FB-3000 WT.

*Bearing the UL Classification Mark

System No. W-L-2179

September 17, 2001

F Rating — 1 Hr
 T Rating — 1 Hr



SECTION A-A

1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the Individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. The steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.

B. Insulation, Glass Fiber* — R-13 fiber glass insulation installed entirely within single stud cavity of nonmetallic pipe (Item 2).

C. Gypsum Board* — One layer of nom 5/8 in. thick gypsum wallboard, as specified in the Individual Wall and Partition Design. Max diam of opening is 3-3/4 in.

2. Nonmetallic Pipe — Nonmetallic pipe, installed within stud cavity and connected to nonmetallic tee. Nonmetallic pipe penetrating wall assembly on one side of wall to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1 in. Pipe to be rigidly supported on penetrating side of wall assembly. The following types and sizes of nonmetallic pipes and tees may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core PVC pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. diam (or smaller) SDR17 CPVC pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact locations between wallboard and pipe, a min 1/2 in. diam bead of fill material shall be applied at the pipe/wallboard interface.

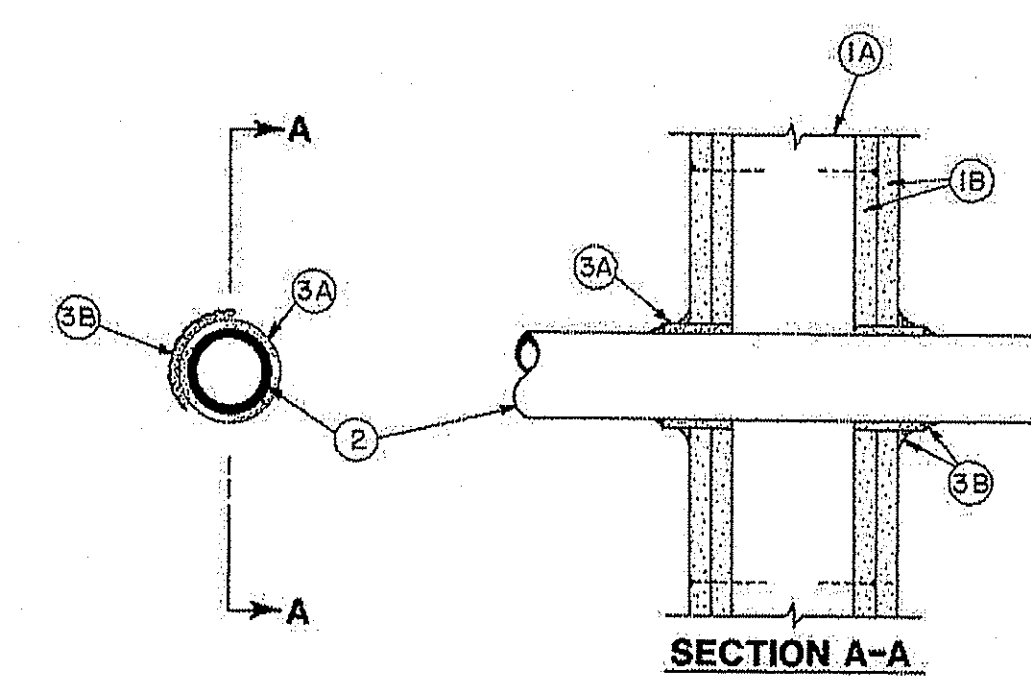
JOHNS MANVILLE INTERNATIONAL INC — FireTemp™ CI, FireTemp™ CE

*Bearing the UL Classification Mark

System No. W-L-2003

November 20, 2009

F Ratings — 1 and 2 Hr (See Item 3)
 T Ratings — 1 and 2 Hr (See Item 3)
 L Rating At Ambient — 7 CFM/sq ft (See Item 3B)
 L Rating At 400 F — less than 1 CFM/sq ft (See Item 3B)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the Individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/8 in. (79 mm).

2. Through Penetrants — One nonmetallic pipe or conduit to be centered in the through opening. The annular space between pipe or conduit and periphery of opening shall be min 1/4 in. (6 mm) and max 3/8 in. (10 mm). Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. Rigid Nonmetallic Conduit++ — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with the National Electric Code (NFPA No. 70).

C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. Cellular Core Polyvinyl Chloride (ccPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

E. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

F. Cellular Core Acrylonitrile Butadiene Styrene (ccABS) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System — Installed symmetrically on both sides of wall assembly. The hourly F and T Ratings for the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* — Wrap Strip — Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around nonmetallic pipe (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip protrudes from the wall surface.

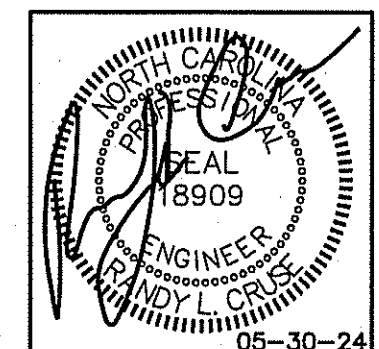
3M COMPANY — FS-195+

B. Fill, Void or Cavity Materials* — Caulk, Sealant or Putty — Min 5/8 in. (16 mm) thickness of caulk or putty applied into annular space between wrap strip and periphery of opening. A nom 1/4 in. (6 mm) diam bead of caulk or putty to be applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layers approx 3/4 in. (19 mm) from the wall surface.

3M COMPANY — CP 25WB+ caulk or MP+ Stix putty, IC 15WB+ caulk, FireDam 150+ caulk or FB-3000 WT sealant. (Note: L Ratings apply only when Type CP 25WB+ caulk or FB-3000 WT sealant is used. CP 25WB+ and FireDam 150+ not suitable for use with CPVC pipes.)

C. Foil Tape — (not shown) — Nom 4 in. (102 mm) wide, 3 mil thick aluminum tape wrapped around pipe prior to the installation of the wrap strip (Item 3A). Min of one wrap, flush with both sides of wall and proceeding outward. Tape is not required for pipes shown in Items 2A, 2B and 2C.

*Bearing the UL Classification Mark



PLANS FOR:
 AMPLE STORAGE
 ERWIN, NORTH CAROLINA 28339

REVISIONS	
NO.	

Cruse and Associates, P.A.

444 EAST BROADWAY STREET
 FRIEDLAND, NORTH CAROLINA 28339
 PHONE: (910) 982-4429
 FAX: (910) 982-5168

LICENSE NO.: C-1721

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DATE 05/30/24
 DRAWN BY BAM
 JOB NO. 24-23

SHEET NO.
 PME 1 OF 1

PENETRATION DETAILS
 NOT TO SCALE



AMPLE STORAGE

ERWIN, NORTH CAROLINA

SUBMITTED TO :

**LAMPE MANAGEMENT COMPANY
ATTN: GUY LAMPE
225 PEEDIN ROAD
SMITHFIELD, NORTH CAROLINA 27577**

PHONE: (919) 934-3041

NOTE: DETAIL LABELS CONTAINED WITHIN THIS SET OF PLANS MAY REFERENCE THE ERECTION DRAWINGS MARKED IN THIS SCHEDULE.

ERECTION DRAWINGS				
ERC010X	ERC200X	ERC420X	ERC619X	ERC752X
ERC016X	ERC201X	ERC500X	ERC620X	ERC753X
ERC100X	ERC202X	ERC505X	ERC621X	ERC754X
ERC105X	ERC203X	ERC506X	ERC622X	ERC800X
ERC106X	ERC204X	ERC515X	ERC623X	ERC900X
ERC110X	ERC206X	ERC600X	ERC624X	ERC901X
ERC112X	ERC207X	ERC601X	ERC625X	ERC902X
ERC115X	ERC208X	ERC602X	ERC629X	ERC903X
ERC120X	ERC209X	ERC603X	ERC630X	ERC904X
ERC130X	ERC250X	ERC604X	ERC631X	ERC905X
ERC150X	ERC250XPHF	ERC605X	ERC650X	ERC907X
ERC151X	ERC251X	ERC606X	ERC651X	ERC908X
ERC152X	ERC251XPHF	ERC607X	ERC652X	ERC910X
ERC153X	ERC252X	ERC608X	ERC700X	ERC911X
ERC154X	ERC251XPHF	ERC609X	ERC712X	ERC912X
ERC155X	ERC253X	ERC610X	ERC713X	ERC913X
ERC175X	ERC254X	ERC611X	ERC720X	ERC914X
ERC176X	ERC255X	ERC612X	ERC725X	ERC915X
ERC177X	ERC256X	ERC613X	ERC730X	ERC916X
ERC178X	ERC260X	ERC614X	ERC731X	ERC917X
ERC179X	ERC262X	ERC615X	ERC731XPHF	ERC918X
ERC180X	ERC302X	ERC616X	ERC732X	ERC919X
ERC181X	ERC302X(INS)	ERC617X	ERC732XPHF	
ERC182X	ERC410XFL	ERC618X	ERC750X	
ERC183X	ERC411X	ERC618XALT	ERC751X	

SCHEDULE OF DRAWINGS	
DRAWING NO.	DESCRIPTION
CS1	COVER SHEET
CS2	BUILDING NOTES
CS3	APPENDIX B
CS4	UL SPECIFICATION
S1	ELEVATIONS & NOTES
S2	FLOOR PLAN & NOTES
S3	FLOOR PLANS, DETAILS & NOTES
S4	FLOOR PLAN, & NOTES
S5	FLOOR PLAN, SECTION, DETAILS & NOTES
S6	FLOOR PLAN, DETAILS & NOTES
S7	CROSS SECTION & DETAILS
S8	CROSS SECTIONS & DETAILS
S9	CROSS SECTION & DETAIL
S10	BUILDING DETAILS
S11	BUILDING DETAILS
S12	SECTIONS, DETAIL & NOTES
S13	SECTIONS, DETAIL & NOTES
S14	FRAMING ELEVATION & NOTES
S15	FRAMING ELEVATIONS & NOTES
F1	FOUNDATION PLAN, DETAILS & NOTES
F2	FOUNDATION PLANS & NOTES
F3	FOUNDATION PLAN & NOTES
F4	FOUNDATION PLAN, DETAILS & NOTES
F5	FOUNDATION PLAN, DETAILS & NOTES
F6	FOUNDATION PLAN & NOTES
F7	FOUNDATION DETAILS & NOTES

WIND LOAD DESIGN DATA:	
ULTIMATE DESIGN WIND SPEED (V_{ULT}):	119 MPH
NOMINAL DESIGN WIND SPEED (V_{ASD}):	92 MPH
RISK CATEGORY:	I
WIND EXPOSURE:	B
INTERNAL PRESSURE COEFFICIENT:	± 0.18

SNOW LOAD DESIGN DATA:	
GROUND SNOW LOAD (P_g):	10 PSF

EARTHQUAKE LOAD DESIGN DATA:	
- RISK CATEGORY:	I
- SEISMIC IMPORTANCE FACTOR (I):	1.0
- SEISMIC DESIGN CATEGORY:	C
- ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-10 SECTION 12.8)
- BASIC SEISMIC-FORCE-RESISTING SYSTEM:	LIGHT FRAMED WALLS WITH STEEL SHEAR PANELS
- SITE CLASS:	D
- DESIGN BASE SHEAR:	BUILDING "A": 3.360 ^K BUILDING "B": 0.336 ^K BUILDING "D": 2.464 ^K BUILDING "E": 0.784 ^K BUILDING "F": 0.924 ^K BUILDING "G": 3.360 ^K
- RESPONSE MODIFICATION FACTOR (R):	7.0
- SEISMIC RESPONSE COEFFICIENT (C_s):	0.028
- MAPPED SPECTRAL RESPONSE ACCELERATION (S_s):	18.2% G
(S_1):	8.5% G
- SPECTRAL RESPONSE COEFFICIENTS (S_{ms}):	19.5% G
(S_{m1}):	13.7% G

BUILDING DATA :

BUILDING DESCRIPTION :

SINGLE STORY METAL BUILDINGS BOLTED TO CONCRETE SLAB FOUNDATIONS.

BUILDING SIZE :

BUILDING "A"	120' x 200' = 24,000 sq. ft.	10'-0"/21'-0" EAVE HEIGHT
BUILDING "B"	30' x 80' = 2,400 sq. ft.	10'-0" EAVE HEIGHT
BUILDING "D"	80' x 220' = 17,600 sq. ft.	10'-0" EAVE HEIGHT
BUILDING "E"	40' x 140' = 5,600 sq. ft.	10'-0" EAVE HEIGHT
BUILDING "F"	30' x 220' = 6,600 sq. ft.	12'-0" EAVE HEIGHT
BUILDING "G"	120' x 200' = 24,000 sq. ft.	10'-0" EAVE HEIGHT
TOTAL =		80,200 sq. ft.

PARKING DATA :

SEE SITE PLAN BY OTHERS

BUILDING CODE :

THE 2018 NORTH CAROLINA BUILDING CODE

DESIGN CRITERIA :

THESE BUILDINGS HAVE BEEN DESIGNED TO CONFORM TO THE STRUCTURAL REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE, WITH CURRENT REVISIONS.

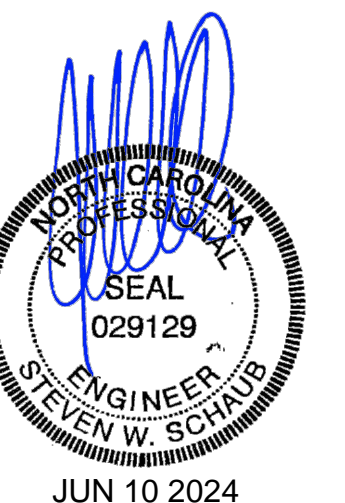
THESE BUILDINGS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADINGS IN ADDITION TO THE DEAD LOADINGS :

ROOF LIVE LOADING :	20 psf
FLOOR LIVE LOADING:	125 psf
USE GROUP:	S-1
TYPE OF CONSTRUCTION:	II-B

IT IS THE RESPONSIBILITY OF THE BUYER/OWNER TO VERIFY THE FIREWALL, LIVE LOAD AND WIND LOAD REQUIREMENTS WITH THE LOCAL CODE AUTHORITY.

PROJECT NUMBER :

NC23237



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.

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.

REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 (FY=60000 PSI).

CONSTRUCTION AND SAFETY:

- 1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT.

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.

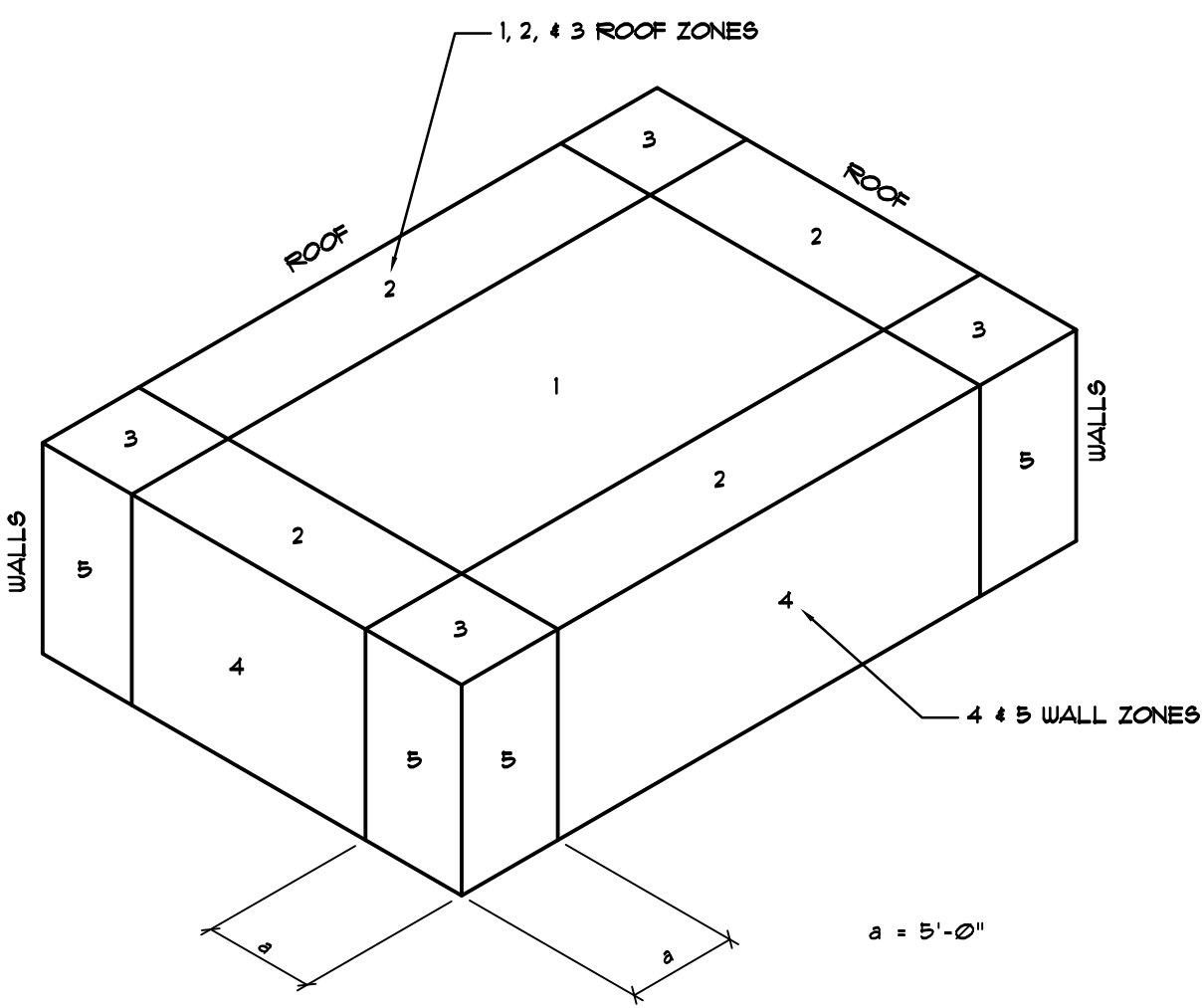
- 6. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.

BRICK VENEER - STEEL STUDWALLS:

- 1. AIR SPACE: a. 2 in (51 mm) MINIMUM AIR SPACE RECOMMENDED ± 1 in (25.4 mm) MINIMUM AIR SPACE REQUIRED.

STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: WIDE FLANGE SHAPES ASTM A992, 50-65 KSI



WIND COMPONENTS & CLADDING ZONE DIAGRAMS

Table with 2 columns: ZONE, EFFECTIVE WIND AREA, and WIND PRESSURE (psf). Rows include WALL (4), WALL (5), ROOF (1), ROOF (2), ROOF (3), PARAPET WALL (4), and PARAPET WALL (5).

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

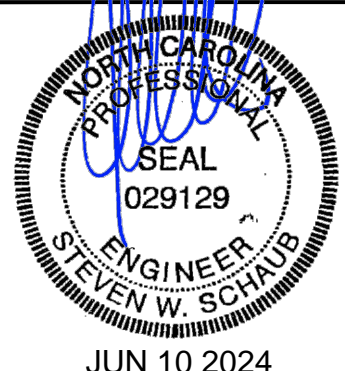


Table with columns: DATE, DRAWN BY, SCALE, APPROVED BY, and REVISIONS.

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

Table with project information: PROJECT NAME (AMPLE STORAGE), PROJECT ADDRESS (ERWIN, NORTH CAROLINA), OWNER (LAMPÉ MANAGEMENT COMPANY), SHEET TITLE (BUILDING NOTES), PROJECT NO. (NC023237), and DRAWING NUMBER (CS2).

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reduce the following data on the building plans sheet 1 or 2)

Name of Project: Ample Storage
Address: Erwin NC
Owner/Authorized Agent: Guy Lampe Phone # (919) 934-1041 E-Mail:
Owned By: Private
Code Enforcement Jurisdiction: City

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural					
Civil	CMS Engineering	Patty Hildereth	37410	(919)833-0830	
Electrical	Cruse & Associates, PA	Randy Cruse	18909	(919)892-4429 rcruse@cruseassociates.com	
Fire Alarm					
Plumbing					
Mechanical	Cruse & Associates, PA	Randy Cruse	18909	(919)892-4429 rcruse@cruseassociates.com	
Sprinkler-Standpipes					
Structural	S.L. Consultants	Steven W. Schaub	29129	(480) 946-2010 wwg@slconsultants.com	
Retaining Walls >5' High					
Other					

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

2018 NC BUILDING CODE: New Building
2018 NC EXISTING BUILDING CODE: N/A 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: I-B
Sprinklers: No N/A
Standpipes: No
Primary Fire District: Select one
Special Inspections Required: No

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Building A	24000	24000	
Building B	2400	2400	
Building D	17600	17600	
Building E	5600	5600	
Building F	6600	6600	
Building G	24000	24000	
TOTAL	80200	80200	

ALLOWABLE HEIGHT
Primary Occupancy Classification(s): Storage - S-1 N/A N/A N/A N/A N/A
2018 NC Administrative Code and Policies

Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions (Chapter 5 - List Code Sections):
Mixed Occupancy: No Separation: Select one Exception:
Select one
Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A ≤ 1
Allowable Area of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.1 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
Bldg 1	S-1	24000	17500	0	17500
Bldg 2	S-1	2400	17500	0	17500
Bldg 3	S-1	17600	17500	0	17500
Bldg 4	S-1	5600	17500	0	17500
Bldg 5	S-1	5600	17500	0	17500
Bldg 6	S-1	2400	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 = 100(F/P - 0.25) / W/20 = (I%)
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 un-sprinklered 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 typ, 20ft max
Building Height in Stories (Table 504.4)	2	1

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.1 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING PROVIDED (W/RESTRUCTION)	DETAIL # AND SHEET #	HOMENET FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, joists		NC				
Roofing Walls						
Exterior	≥ 10 ft					
North	≥ 10 ft					
East	≥ 10 ft					
West	≥ 10 ft					
South	≥ 10 ft					

2018 NC Administrative Code and Policies

Interior	Exterior	Other	Notes
Nonbearing Walls and Partitions	N/A		
Exterior Walls	N/A		
East	N/A		
West	N/A		
South	N/A		
North	N/A		
Interior walls and partitions	N/A		
Floor Construction, including supporting beams and joists	N/A		
Three Ceiling Assembly	N/A		
Columns Supporting Floors	N/A		
Roof Construction, including supporting beams and joists	N/A		
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	3 hr	CS4	UL 419
Party Wall Separation	N/A		
Smoke Barrier Separation	N/A		
Smoke Partition	N/A		
Tenant 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 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: No
Smoke Detection Systems: No
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: LS-1 thru LS-4
Fire and/or smoke rated wall locations (Chapter 7)
2018 NC Administrative Code and Policies

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
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 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 N/A
(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 N/A
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESSIBLE	12' VAN SPACES WITH 5' ACCESSIBLE	
TOTAL					

PLUMBING FIXTURE REQUIREMENTS N/A
(TABLE 2902.1)

SPACE	USE	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS		DRINKING FOUNTAINS	
		MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
	EXIST'G										
	NEW										
	REF'D										

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, etc., describe below)
2018 NC Administrative Code and Policies

ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No
Exempt Building: Yes Provide code or statutory reference: N.C.G.S 143-138
Climate Zone: Select one
Method of Compliance: Select one (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of total assembly:
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Value:

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

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

Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heeled:

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN**
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (S) 0.80
Seismic (S) 1.0
Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 125 psf
Ground Snow Load: 10 psf
Wind Load: Design Wind Speed V (Ultimate) = 119 mph (ASCE 7-10)
Exposure Category B
Wind Base Shear (MWFPS):
Bldg A: Vx=22.7 k Vy=408 k
Bldg B: Vx=6.7 k Vy=42.7 k
Bldg D: Vx=17.9 k Vy=302 k
Bldg E: Vx=11.5 k Vy=100 k
Bldg F: Vx=2.7 k Vy=42 k
Bldg G: Vx=16.3 k Vy=408 k

SEISMIC DESIGN CATEGORY: C
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I
Spectral Response Acceleration S_s = 18.2 % S_i = 8.5 %
Site Classification (ASCE 7-10) D
Data Source: Presumptive
Basic structural system Building Frame
Seismic Base Shear:
Bldg A: Vx=3.360 k Vy=3.360 k
Bldg B: Vx=0.336 k Vy=0.336 k
Bldg D: Vx=2.464 k Vy=2.464 k
Bldg E: Vx=0.784 k Vy=0.784 k
Bldg F: Vx=0.924 k Vy=0.924 k
Bldg G: Vx=0.988 k Vy=0.988 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

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

**BUILDING "A"
MECHANICAL SUMMARY**

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone 4A - Harnett County, NC
winter dry bulb: 16 Deg. F.,
summer dry bulb: 93 Deg. F.
Interior design conditions
winter dry bulb: 59 Deg. F.,
summer dry bulb: 80 Deg. F.,
relative humidity: 55%
Building heating load: 160.0 MBH
Building cooling load: 22.0 Tons
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE MECHANICAL PLANS
heating efficiency: 8.5 HSPF
cooling efficiency: 14.5 SEER
size category of unit: SEE MECHANICAL PLANS
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: SEE MECHANICAL PLANS FOR SCHEDULE

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

**BUILDING "D"
MECHANICAL SUMMARY**

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone 4A - Harnett County, NC
winter dry bulb: 16 Deg. F.,
summer dry bulb: 93 Deg. F.
Interior design conditions
winter dry bulb: 59 Deg. F.,
summer dry bulb: 80 Deg. F.,
relative humidity: 55%
Building heating load: 135.4 MBH
Building cooling load: 17.0 Tons
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE MECHANICAL PLANS
heating efficiency: 8.5 HSPF
cooling efficiency: 14.0 SEER
size category of unit: SEE MECHANICAL PLANS
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: SEE MECHANICAL PLANS FOR SCHEDULE

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

2018 NC Administrative Code and Policies

**BUILDING "G"
MECHANICAL SUMMARY**

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone 4A - Harnett County, NC
winter dry bulb: 16 Deg. F.,
summer dry bulb: 93 Deg. F.
Interior design conditions
winter dry bulb: 59 Deg. F.,
summer dry bulb: 80 Deg. F.,
relative humidity: 55%
Building heating load: 157 MBH
Building cooling load: 20.0 Tons
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE MECHANICAL PLANS
heating efficiency: 9.0 HSPF
cooling efficiency: 14.8 SEER
size category of unit: SEE MECHANICAL PLANS
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: SEE MECHANICAL PLANS FOR SCHEDULE

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

**"OFFICE"
MECHANICAL SUMMARY**

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone 4A - Harnett County, NC
winter dry bulb: 16 Deg. F.,
summer dry bulb: 93 Deg. F.
Interior design conditions
winter dry bulb: 70 Deg. F.,
summer dry bulb: 80 Deg. F.,
relative humidity: 55%
Building heating load: 157 MBH
Building cooling load: 20.0 Tons
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE MECHANICAL PLANS
heating efficiency: 9.0 HSPF
cooling efficiency: 14.8 SEER
size category of unit: SEE MECHANICAL PLANS
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: SEE MECHANICAL PLANS FOR SCHEDULE

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN**
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

summer dry bulb: 75 Deg. F.,
relative humidity: 55%
Building heating load: 12.6 MBH
Building cooling load: 3.0 Tons
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE MECHANICAL PLANS
heating efficiency: 9.5 HSPF
cooling efficiency: 16.0 SEER
size category of unit: SEE MECHANICAL PLANS
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: SEE MECHANICAL PLANS FOR SCHEDULE

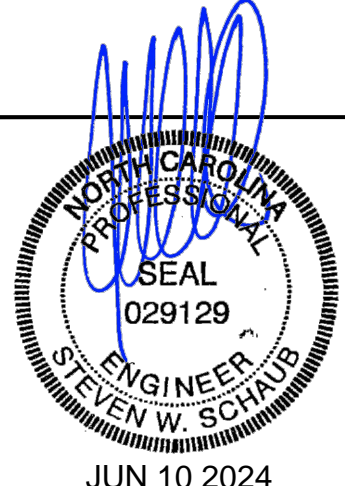
**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN**
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SYSTEM AND EQUIPMENT SEE ELECTRICAL DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULE
Method of Compliance: Energy Code - Prescriptive
Lighting schedule (each fixture type) SEE SCHEDULE
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 2018 NCECC; 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

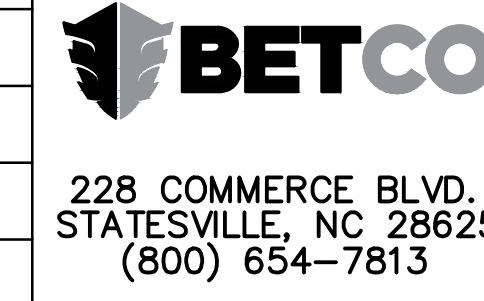
2018 NC Administrative Code and Policies

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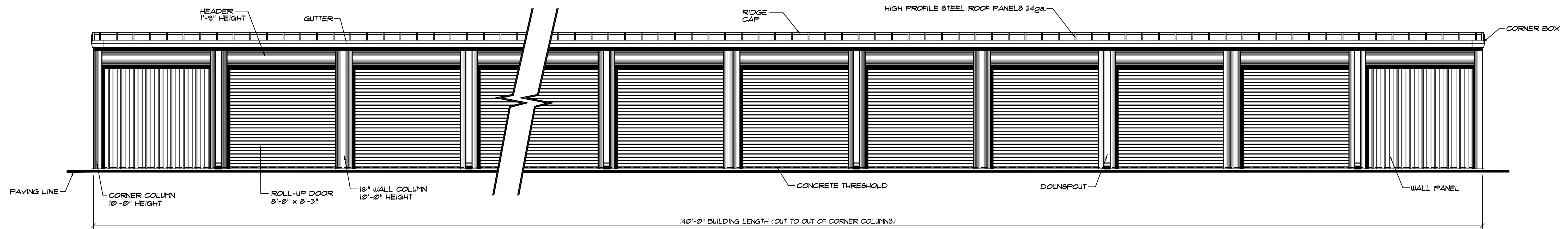
REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

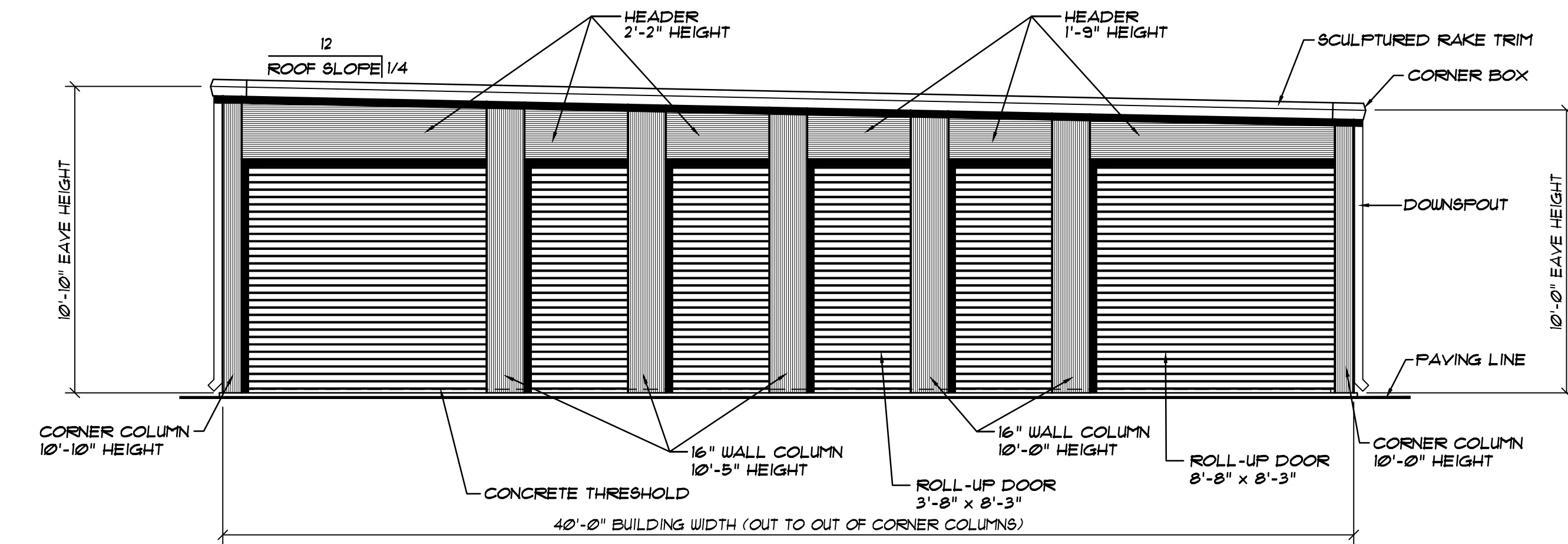


PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: CS3
OWNER: LAMPE MANAGEMENT COMPANY	
SHEET TITLE: APPENDIX B	

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A SIDEWALL ELEVATION . . . BUILDING "E"
 S1 SCALE: 1/4" = 1'-0"

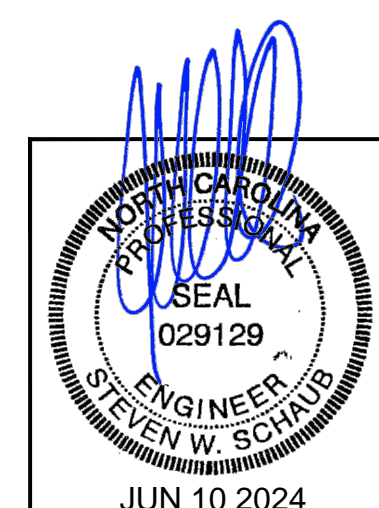


B ENDWALL ELEVATION . . . BUILDING "E"
 S1 SCALE: 1/4" = 1'-0"

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

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

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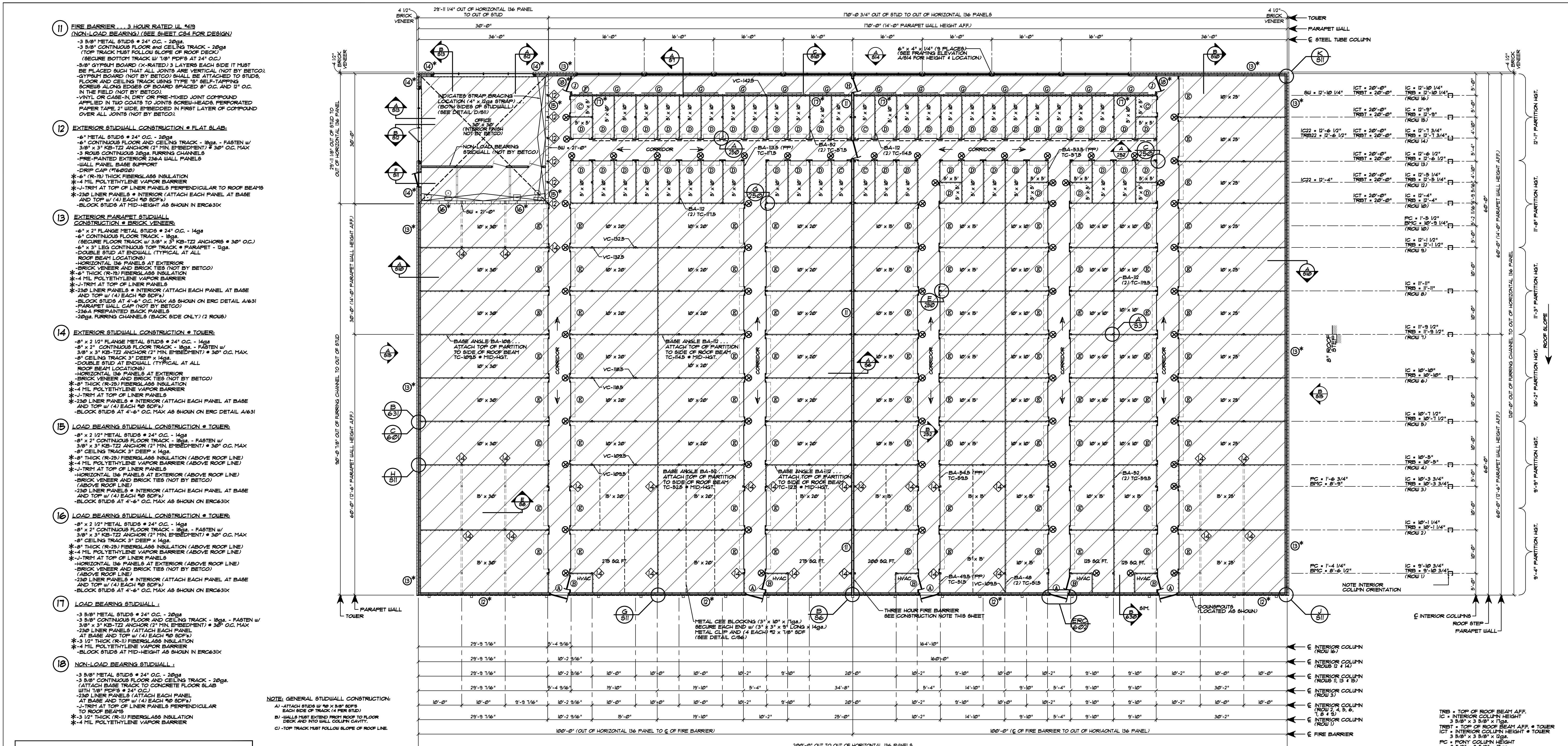


REVISIONS	DATE	BY

DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY:



PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: S1
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: ELEVATIONS & NOTES BUILDING "E"



STUDY WALL LEGEND		BUILDING "A"	
INTERIOR STUDY WALL		EXTERIOR STUDY WALL	
DESCRIPTION	UNINSULATED	INSULATED	
11 FIRE BARRIER - 3 HOUR RATED UL 419 (NON-LOAD BEARING) (SEE SHEET C84 FOR DESIGN)	120 L.F.	0 L.F.	
12 EXTERIOR STUDY WALL CONSTRUCTION AT FLAT SLAB (BLOCK @ 1/3 POINTS) (6" x 20ga. STUDS)	0 L.F.	202 L.F.	
13 EXTERIOR PARAPET STUDY WALL CONSTRUCTION @ BRICK VENEER (BLOCK @ 1/3 POINTS) (6" x 20ga. STUDS)	0 L.F.	302 L.F.	
14 EXTERIOR STUDY WALL CONSTRUCTION @ TOWER (BLOCK @ 1/4 POINTS) (8" x 2 1/2" FLANGE x 14ga. STUDS)	0 L.F.	62 L.F.	
15 LOAD BEARING STUDY WALL CONSTRUCTION @ TOWER (BLOCK @ 1/4 POINTS) (8" x 2 1/2" FLANGE x 14ga. STUDS)	0 L.F.	32 L.F.	
16 LOAD BEARING STUDY WALL CONSTRUCTION @ TOWER (BLOCK @ 1/4 POINTS) (8" x 2 1/2" FLANGE x 14ga. STUDS)	0 L.F.	32 L.F.	
17 LOAD BEARING STUDY WALL CONSTRUCTION @ TOWER (BLOCK @ 1/4 POINTS) (8" x 2 1/2" FLANGE x 14ga. STUDS)	0 L.F.	132 L.F.	
18 NON-LOAD BEARING STUDY WALL CONSTRUCTION (3 5/8" x 20ga. STUDS)	0 L.F.	10 L.F.	

NOTE: GENERAL STUDY WALL CONSTRUCTION:
 A) ATTACH STUDS W/ 1/2" x 1/4" SDP'S
 EACH SIDE OF TRACK (4 PER STUD)
 B) WALLS MUST EXTEND FROM ROOF TO FLOOR DECK AND MID WALL COLUMN CENTER
 C) TOP TRACK MUST FOLLOW SLOPE OF ROOF LINE

NOTE: 15ft. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ MID-POINT. (SEE DETAIL D/85)

NOTE: 20ft. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ 1/3 POINTS. (SEE DETAIL D/85)

NOTE: 30ft. ROOF BEAMS AT OFFICE ARE 3" x 12" x 12ga. (55ksi) ZEE'S DESIGNED FOR LATERAL BRACING ONLY.

NOTES:
 --- 6" ROOF INSULATION (R-19) INCLUDED AT ENTIRE OF BUILDING "A". ADDITIONAL 3" UNFACED INSULATION (R-19 + R-11) INCLUDED AT CLIMATE CONTROLLED AREAS OF BUILDING "A".
 --- 8" WALL INSULATION (R-25) INCLUDED AT BUILDING "A".
 --- 6" WALL INSULATION (R-19) INCLUDED AT BUILDING "A".
 --- 5 1/2" x 6" KICK-OUT DOWNSPOUTS ARE INCLUDED.
 --- CORRIDOR WIDTH WILL BE A MINIMUM OF APPROXIMATELY 56" FROM FACE TO FACE OF DOOR JAMBS.
 --- 5' PANEL SCOFF SYSTEM INCLUDED AT CORRIDORS.
 --- ATTACH ALL STUDS TO TRACKS WITH 1/2" x 5/8" SDP (4 PER STUD).
 --- BURGLAR BARS ARE PROVIDED ABOVE INTERIOR ROLL-UP DOORS AS REQUIRED.

NOTE TO ERECTOR:
 INSTALL SA-2 ANGLE TO 15'-0" & 20'-0" ROOF BEAM AT MID-SPAN. BRACE VERTICALLY TO CLIP IN FLOOR TO PROVIDE TEMPORARY BRACING PRIOR TO ROOF INSTALLATION. BRACE WILL PREVENT BEAM TWIST.

LEGEND:
 12ga. INTERIOR COLUMN
 14ga. INTERIOR COLUMN
 22ga. INTERIOR COLUMN
 22 ga. INTERIOR DOOR STRUCTURE
 CLIMATE CONTROL
 CORRIDOR

NOTE COLUMN ORIENTATION @ CORRIDORS PARALLEL TO ROOF BEAMS

NOTE: BLOCK ALL LOAD-BEARING INTERIOR & EXTERIOR STUD WALLS AS SHOWN ON ERC DETAIL A/631.

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

NOTE: SEE OWNER FOR BUILDING ORIENTATION ON SITE.

NOTE: SEE ERC602X FOR EXTERIOR SWING DOOR FRAMING IN STUDY WALL.

NOTE: SEE ERC602X FOR EXTERIOR SWING DOOR FRAMING IN STUDY WALL.

NOTE: SEE ERC602X FOR EXTERIOR SWING DOOR FRAMING IN STUDY WALL.

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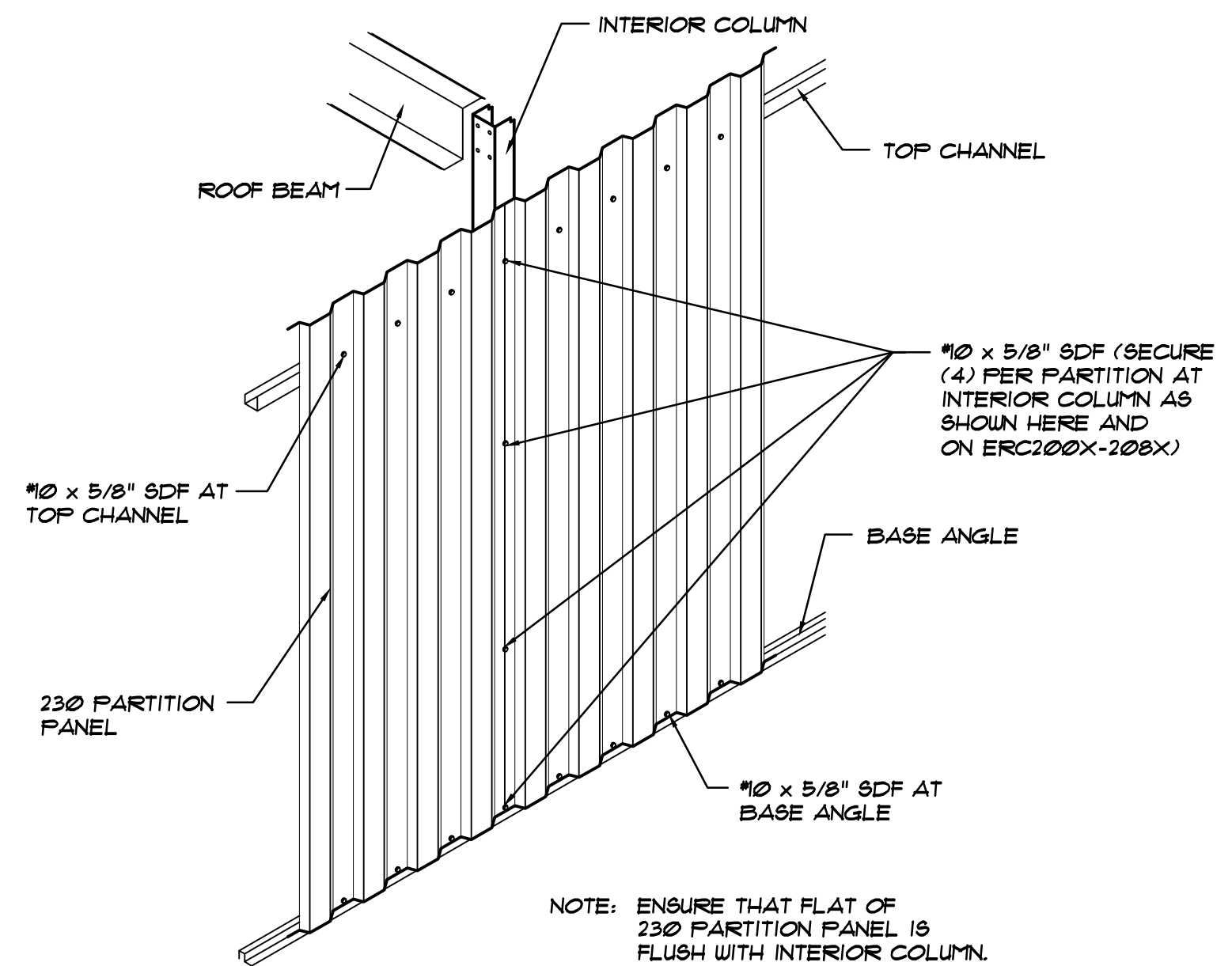
DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY:

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 STATESVILLE, NC 28625
 (800) 654-7813

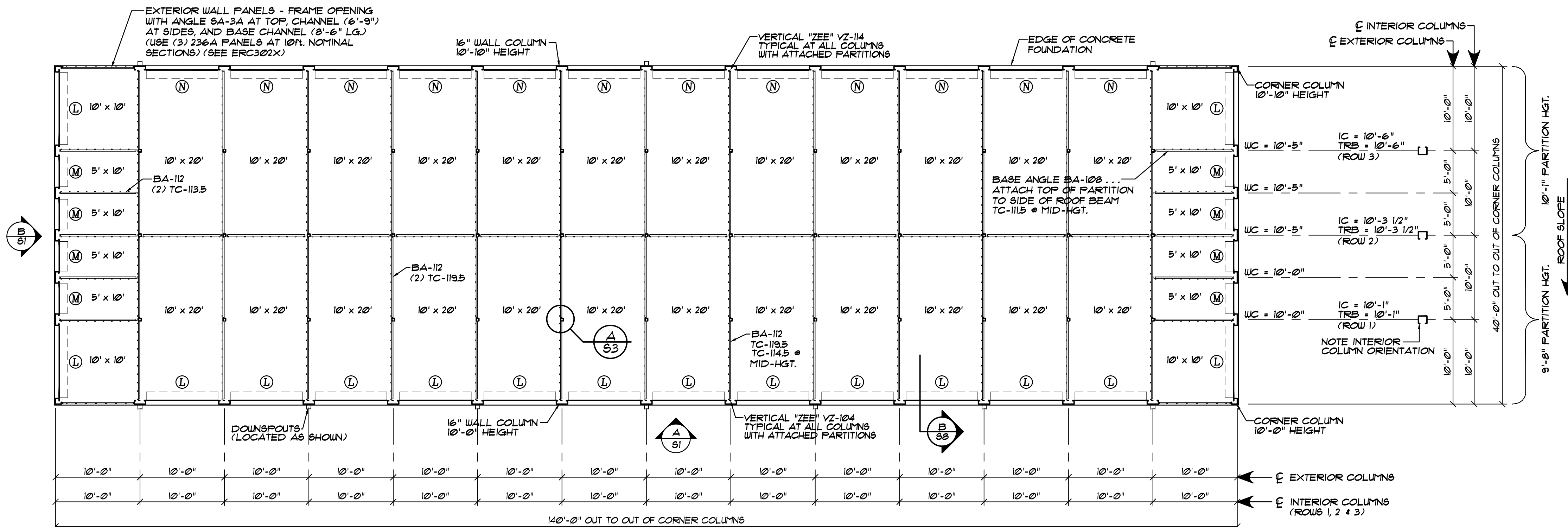
DOOR SCHEDULE		
ID	DOOR SIZE	TYPE
A	4'-0" x 7'-0" (4070 - 1) (ERC254X)	SOLID PERSONNEL
B	3'-0" x 7'-0"	INTERIOR SWING DOOR WITH LOUVER
C	3'-0" x 7'-0"	INTERIOR ROLL-UP
D	3'-8" x 7'-0"	INTERIOR ROLL-UP
E	8'-0" x 7'-0"	DUMMY DOOR
F	3'-0" x 7'-0"	DUMMY DOOR
G	8'-0" x 7'-0"	DUMMY DOOR
H	3'-0" x 7'-0" (3070 - 1 - A) (ERC254X)	A-LABEL FIRE DOOR
I	3'-0" x 7'-0" (3070 - 2 - G) (ERC254X)	1/2 GLASS PERSONNEL

PROJECT NAME: AMPLE STORAGE
 PROJECT ADDRESS: ERWIN, NORTH CAROLINA
 OWNER: LAMPE MANAGEMENT COMPANY
 SHEET TITLE: FLOOR PLAN & NOTES BUILDING "A"

PROJECT NO: NC23237
 DRAWING NUMBER: S2

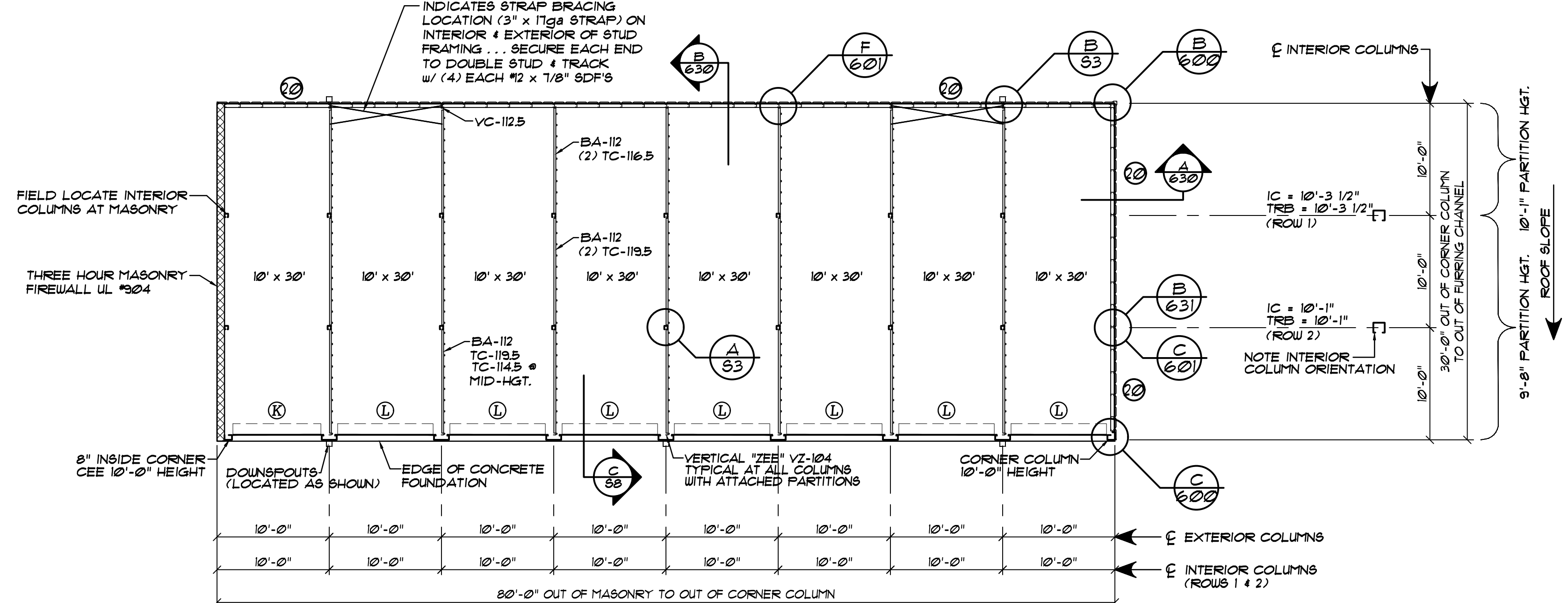


A
S3 PARTITION ATTACHMENT @ INTERIOR COLUMNS
NOT TO SCALE



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

NOTE: BUILDING "E" IS PROVIDED W/(4) ADJUSTABLE CONTROL JOINT COLUMNS. (2) AT 10'-0" HEIGHT (2) AT 10'-10" HEIGHT

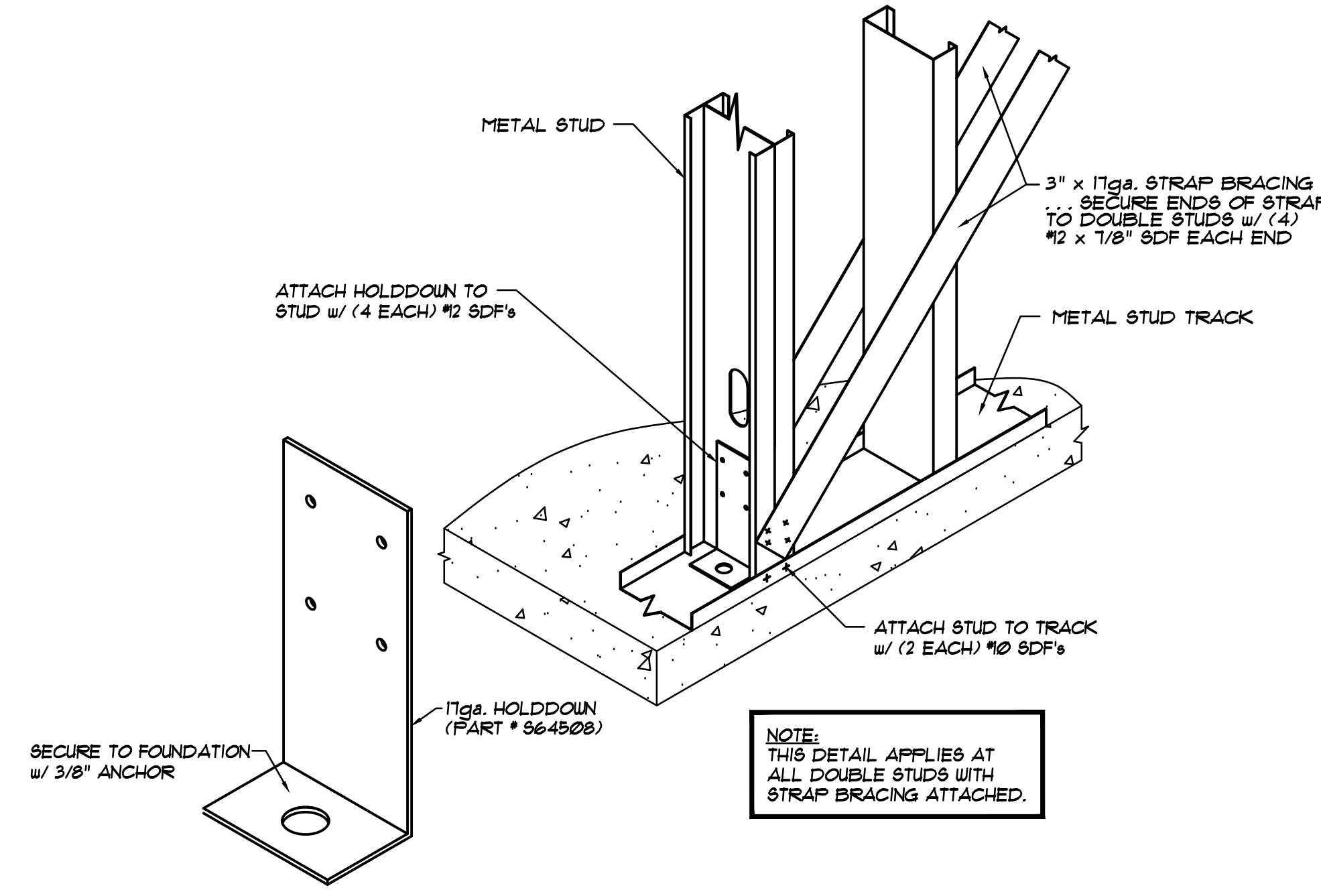


FLOOR PLAN... BUILDING "B"
SCALE: 1/8" = 1'-0"

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

S20 EXTERIOR STUDWALL CONSTRUCTION @ FLAT SLAB:
 - 3 5/8" METAL STUDS @ 24" O.C. - 20ga
 - 3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 10ga. - FASTEN W/ 3/8" x 3" KB-T22 ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
 - 3 ROWS CONTINUOUS 20ga. FURRING CHANNELS
 - PRE-PAINTED EXTERIOR 236A WALL PANELS
 - WALL PANEL BASE SUPPORT
 - DRIP CAP (#160120)
 - BLOCK STUDS AT MID-HEIGHT AS SHOWN IN ERC631X

NOTE: GENERAL STUDWALL CONSTRUCTION:
 A) - ATTACH STUDS W/ #2 x 5/8" SDF'S EACH SIDE OF TRACK (4 PER STUD)
 B) - WALLS MUST EXTEND FROM ROOF TO FLOOR DECK AND INTO WALL COLUMN CAVITY.
 C) - TOP TRACK MUST FOLLOW SLOPE OF ROOF LINE.



B
S3 STRAP BRACING CONNECTION
NOT TO SCALE

STUDWALL LEGEND		BUILDING "B"	
		INTERIOR STUDWALL	EXTERIOR STUDWALL
DESCRIPTION		UNINSULATED	INSULATED*
S20	EXTERIOR STUDWALL CONSTRUCTION AT FLAT SLAB (BLOCK @ MID-HGT.)	110 L.F.	0 L.F.

NOTE #1: SEE BLOCKING DETAIL A/631 ON ERC631X

DOOR SCHEDULE		
ID	DOOR SIZE	TYPE
K	8'-0" x 8'-3"	EXTERIOR ROLL-UP DOOR
L	8'-8" x 8'-3"	EXTERIOR ROLL-UP DOOR
M	3'-8" x 8'-3"	EXTERIOR ROLL-UP DOOR
N	8'-8" x 9'-1"	EXTERIOR ROLL-UP DOOR

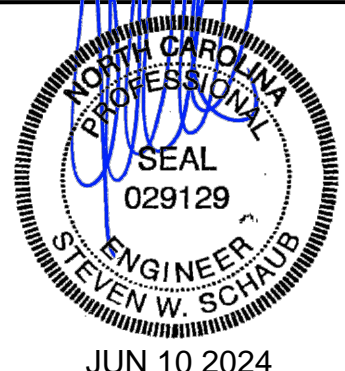
NOTE: BLOCK ALL LOAD-BEARING EXTERIOR STUDWALLS AS SHOWN ON ERC DETAIL A/631.

NOTE: BUILDING "B" & "E" TO INCLUDE 5 1/2" x 6" KICK-OUT DOWNSPOUTS.

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

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

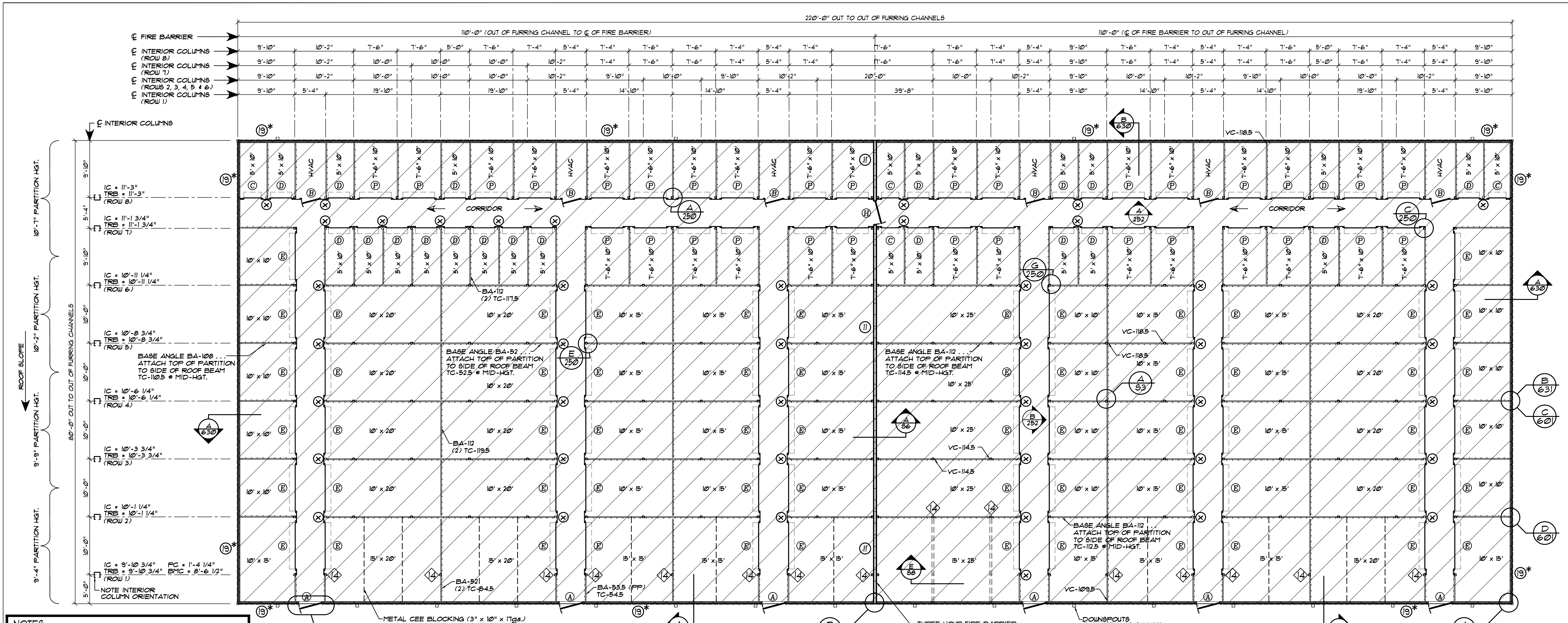
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DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS:	
DATE:	
BY:	

BETCO
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 STATESVILLE, NC 28625
 (800) 654-7813

PROJECT NAME:	AMPLE STORAGE
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA
OWNER:	LAMPE MANAGEMENT COMPANY
SHEET TITLE:	FLOOR PLANS, DETAILS & NOTES BUILDINGS "B" & "E"
PROJECT NO.:	NC23237
DRAWING NUMBER:	S3



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

NOTES:

- 6" ROOF INSULATION (R-19) INCLUDED AT ENTIRE OF BUILDING "D". ADDITIONAL 3" UNFACED INSULATION (R-19 + R-11) INCLUDED AT CLIMATE CONTROLLED AREAS OF BUILDING "D".
- 4" WALL INSULATION (R-13) INCLUDED AT BUILDING "D".
- 5 1/2" x 6" KICK-OUT DOWNSPOUTS ARE INCLUDED.
- CORRIDOR WIDTH WILL BE A MINIMUM OF APPROXIMATELY 56" FROM FACE TO FACE OF DOOR JAMBS.
- 5 PANEL SOFFIT SYSTEM INCLUDED AT CORRIDORS.
- ATTACH ALL STUDS TO TRACKS WITH #10 x 5/8" SDF (4 PER STUD).
- BURGLAR BARS ARE PROVIDED ABOVE INTERIOR ROLL-UP DOORS AS REQUIRED.
- INTERIOR DOOR FRAMES AND PARTITIONS AT HALLWAYS ARE PREPAINTED.
- ALL PERSONNEL DOORS ARE GLOBAL AND INCLUDE LOCK-OPEN TYPE CLOSERS.
- ALL ROLL-UP DOORS ARE BY BETCO & INCLUDE TENSION ADJUSTERS & BEARINGS.
- SECURE INTERIOR PARTITION TO INTERIOR COLUMNS WITH (4) #10 x 5/8" SDF'S AS SHOWN ON ERC208X - ERC208X.
- INTERIOR DOOR JAMBS INCLUDE PARTITION CLOSURE ANGLES.
- NOTE FOR INTERIOR BEARING STUDWALLS: (SECURE BOTTOM TRACK W/ 3/8" x 3" KB-T22 ANCHORS (2" MIN. EMBEDMENT) @ 30" O.C. MAXIMUM).
- NOTE FOR ALL EXTERIOR STUDWALLS: (SECURE FLOOR TRACK W/ 3/8" x 3" KB-T22 ANCHORS (2" MIN. EMBEDMENT) @ 30" O.C. MAXIMUM).

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

	JAMB	ROLL-UP HEADER	SWING DOOR HEADER
	8'-6"	18"	16 1/2"

NOTE: BLOCK ALL LOAD-BEARING INTERIOR & EXTERIOR STUDWALLS AS SHOWN ON ERC DETAIL A/631.

STUDWALL LEGEND BUILDING "B"		
	UNINSULATED	INSULATED*
(19) EXTERIOR STUDWALL CONSTRUCTION AT FLAT SLAB (BLOCK @ MID-HGT.)	0 L.F.	600 L.F.
(11) FIRE BARRIER... 3 HOUR RATED: (NON-LOAD BEARING STUDWALL) (3 5/8" x 20ga. STUDS)	0 L.F.	0 L.F.

NOTE #1: GYPSUM BOARD AND RELATED FINISH MATERIALS MAY NOT BE PROVIDED BY BETCO - VERIFY WITH CONTRACT.

NOTE #2: SEE BLOCKING DETAIL A/631 ON ERC631X

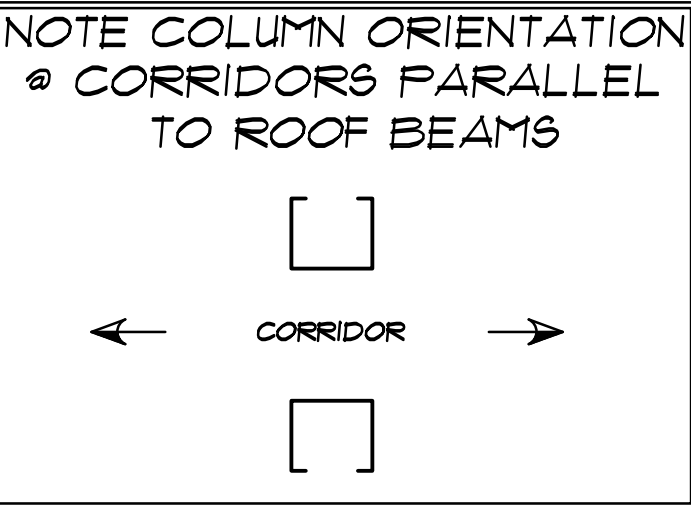
DOOR SCHEDULE		
ID	DOOR SIZE	TYPE
(A)	4'-0" x 7'-0" (4070 - 1) (ERC254X)	SOLID PERSONNEL
(B)	3'-0" x 7'-0"	INTERIOR SWING DOOR WITH LOUVER
(C)	3'-0" x 7'-0"	INTERIOR ROLL-UP
(D)	3'-8" x 7'-0"	INTERIOR ROLL-UP
(E)	8'-0" x 7'-0"	INTERIOR ROLL-UP
(H)	3'-0" x 7'-0" (3070 - 1 - A) (ERC254X)	A-LABEL FIRE DOOR
(P)	5'-6" x 7'-0"	INTERIOR ROLL-UP DOOR

LEGEND:

- 14ga. INTERIOR COLUMN
- 22ga. INTERIOR COLUMN
- CLIMATE CONTROLLED AREAS

NOTE: SEE ERC620X FOR EXTERIOR SWING DOOR FRAMING IN STUDWALL.

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



TRB = TOP OF ROOF BEAM AFF.
IC = INTERIOR COLUMN HEIGHT
PC = POINT COLUMN HEIGHT
BMC = BOTTOM OF METAL CEE AFF.
BA = BASE ANGLE
TC = TOP CHANNEL
VC = VERTICAL CHANNEL

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NOTE: 15ft. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ MID-POINT. (SEE DETAIL D/55)

NOTE: 20ft. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ 1/3 POINTS. (SEE DETAIL D/55)

(19) EXTERIOR STUDWALL CONSTRUCTION @ FLAT SLAB:

- 3 5/8" METAL STUDS @ 24" O.C. - 18ga
- 3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN W/ 3/8" x 3" KB-T22 ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX
- 3 ROWS CONTINUOUS 20ga. FURRING CHANNELS
- PRE-PAINTED EXTERIOR 236A WALL PANELS
- WALL PANEL BASE SUPPORT
- DRIP CAP (#16@12)
- *-4" THICK (R-13) FIBERGLASS INSULATION
- *-4 MIL POLYETHYLENE VAPOR BARRIER
- *-J-TRIM AT TOP OF LINER PANELS
- *-230 LINER PANELS EACH SIDE (ATTACH EACH PANEL AT BASE AND TOP W/ (4) EACH #10 SDF'S)
- BLOCK STUDS AT MID-HEIGHT AS SHOWN IN ERC631X

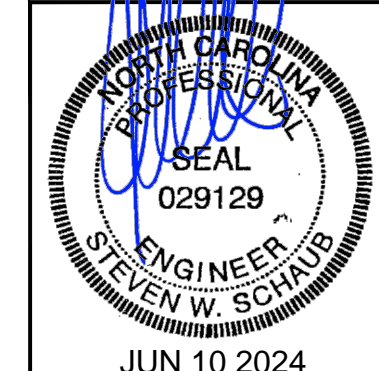
NOTE TO ERECTOR: INSTALL SA-2 ANGLE TO 15'-0" & 20'-0" ROOF BEAM AT MID-SPAN. RUN VERTICALLY TO CLIP IN FLOOR TO PROVIDE TEMPORARY BRACING PRIOR TO ROOF INSTALLATION. BRACE WILL PREVENT BEAM TWIST.

(11) FIRE BARRIER... 3 HOUR RATED UL #419 (NON-LOAD BEARING) (SEE SHEET C64 FOR DESIGN)

- 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/ 1/8" PDF'S AT 24" O.C.)
- 5/8" GYPSUM BOARD (X-RATED) 3 LAYERS EACH SIDE IT MUST BE PLACED SUCH THAT ALL JOINTS ARE VERTICAL (NOT BY BETCO).
- GYPSUM BOARD (NOT BY BETCO) SHALL BE ATTACHED TO STUDS, FLOOR AND CEILING TRACK USING TYPE #8 SELF-TAPPING SCREWS ALONG EDGES OF BOARD SPACED 8" O.C. AND 12" O.C. IN THE FIELD (NOT BY BETCO).
- VINYL OR CASE-IN, DRY OR FINE-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 (NOT BY BETCO).

NOTE: GENERAL STUDWALL CONSTRUCTION:

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



DATE	BY
1/19/24	J. HARE
AS NOTED	

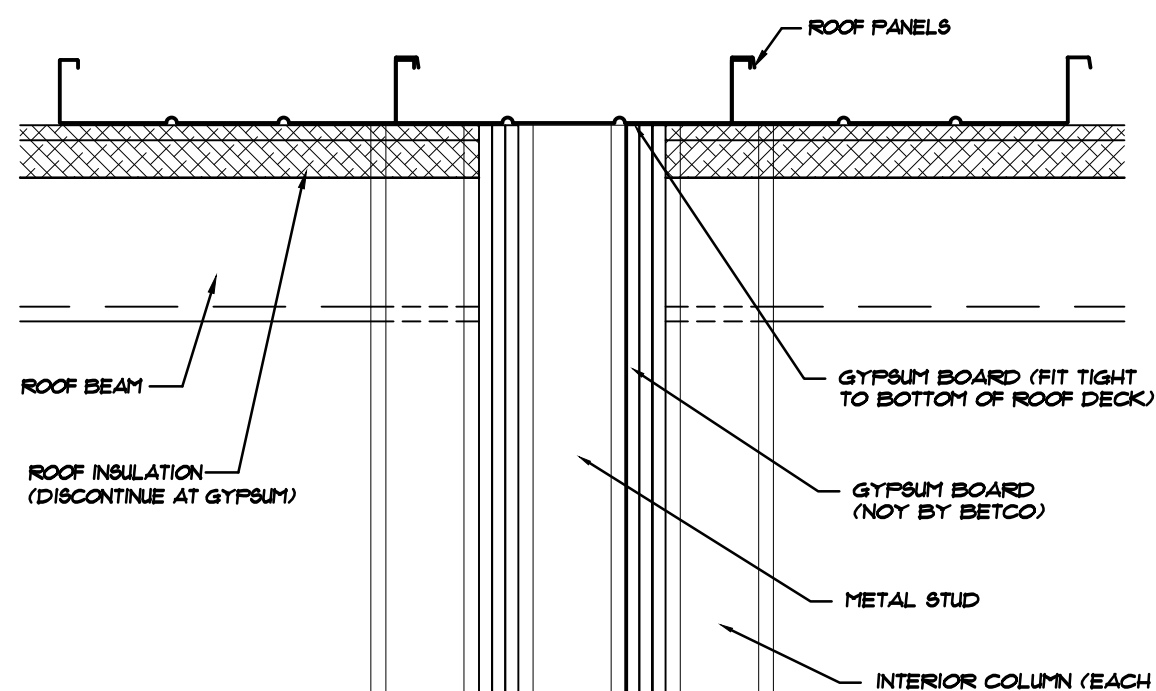
REVISIONS

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STATESVILLE, NC 28625
(800) 654-7813

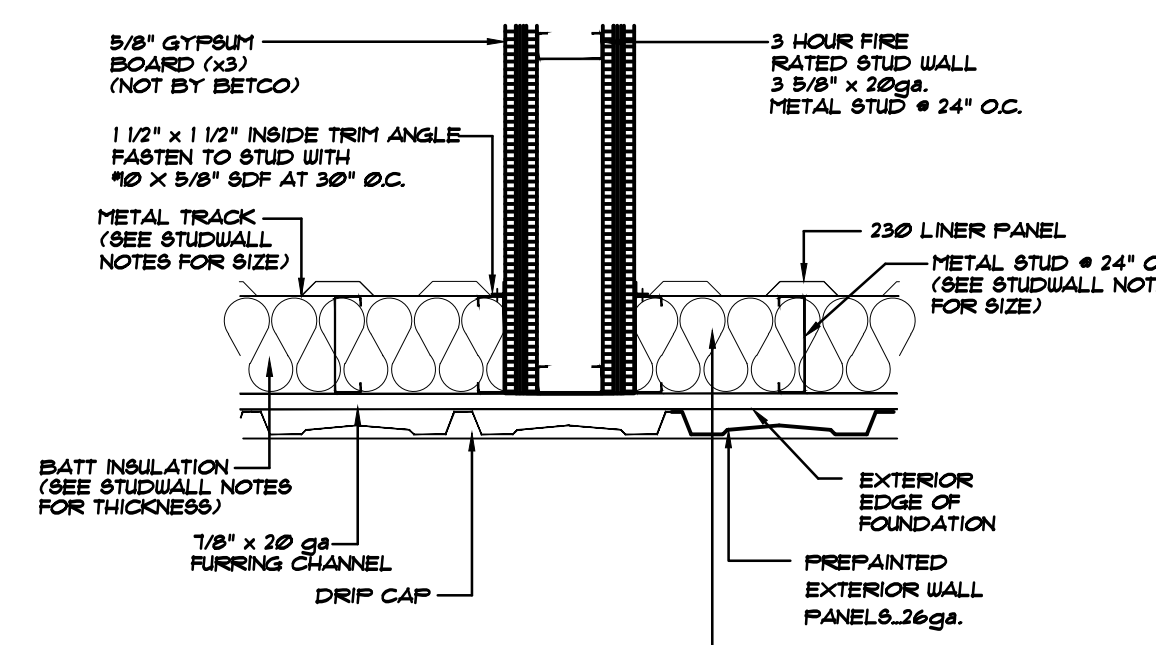
PROJECT NAME: **AMPLE STORAGE**
PROJECT ADDRESS: **ERWIN, NORTH CAROLINA**
OWNER: **LAMPE MANAGEMENT COMPANY**
SHEET TITLE: **FLOOR PLAN & NOTES BUILDING "D"**

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

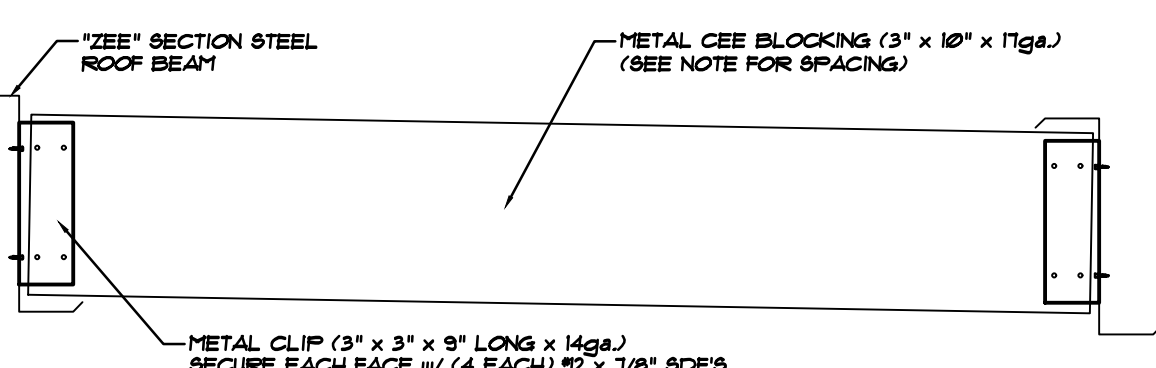
PROJECT NO.: NC23237
DRAWING NUMBER: S4



A SECTION AT 3 HOUR FIRE BARRIER
NOT TO SCALE



B 3 HOUR FIRE BARRIER AT INSULATED EXTERIOR STUDWALL
NOT TO SCALE



C ROOF BEAM BLOCKING DETAIL
NOT TO SCALE

NOTE:
SEE ERC602X FOR EXTERIOR SWING DOOR FRAMING IN STUDWALL.

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

- NOTES:
- 6" ROOF INSULATION (R-19) INCLUDED AT ENTIRE OF BUILDING "G". ADDITIONAL 3" UNFACED INSULATION (R-19 + R-11) INCLUDED AT CLIMATE CONTROLLED AREAS OF BUILDING "G".
 - 4" WALL INSULATION (R-13) INCLUDED AT BUILDING "G".
 - 5 1/2" x 6" KICK-OUT DOWNSPOUTS ARE INCLUDED.
 - CORRIDOR WIDTH WILL BE A MINIMUM OF APPROXIMATELY 56" FROM FACE TO FACE OF DOOR JAMBS.
 - 5 PANEL SOFFIT SYSTEM INCLUDED AT CORRIDORS.
 - ATTACH ALL STUDS TO TRACKS WITH #10 x 5/8" SDF (4 PER STUD).
 - BURGLAR BARS ARE PROVIDED ABOVE INTERIOR ROLL-UP DOORS AS REQUIRED.
 - INTERIOR DOOR FRAMES AND PARTITIONS AT HALLWAYS ARE PREPAINTED.
 - ALL PERSONNEL DOORS ARE GLOBAL AND INCLUDE LOCK-OPEN TYPE CLOSERS.
 - ALL ROLL-UP DOORS ARE BY BETCO 4 INCLUDE TENSION ADJUSTERS 4 BEING 3.
 - SECURE INTERIOR PARTITION TO INTERIOR COLUMNS WITH (4) #10 x 5/8" SDF'S AS SHOWN ON ERC200X - ERC200X.
 - INTERIOR DOOR JAMBS INCLUDE PARTITION CLOSURE ANGLES.
 - NOTE FOR INTERIOR BEARING STUDWALLS: (SECURE BOTTOM TRACK W/ 3/8" x 3" KB-T22 ANCHORS (2" MIN. EMBEDMENT) @ 30" O.C. MAXIMUM)
 - NOTE FOR ALL EXTERIOR STUDWALLS: (SECURE FLOOR TRACK W/ 3/8" x 3" KB-T22 ANCHORS (2" MIN. EMBEDMENT) @ 30" O.C. MAXIMUM)

NOTE TO ERECTOR:
INSTALL SA-2 ANGLE TO 15'-0" & 20'-0" ROOF BEAM AT MID-SPAN. RUN VERTICALLY TO CLIP IN FLOOR TO PROVIDE TEMPORARY BRACING PRIOR TO ROOF INSTALLATION. BRACE WILL PREVENT BEAM TWIST.

NOTE:
IF FL. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ MID-POINT. (SEE DETAIL D/85)
20FL. ROOF BEAMS ARE 3" x 12" x 12ga. ZEE'S WITH ROOF BLOCKING @ 1/3 POINTS. (SEE DETAIL D/85)

STUDWALL LEGEND		BUILDING "G"	
DESCRIPTION	UNINSULATED	INSULATED*	
1 EXTERIOR STUDWALL CONSTRUCTION AT FLAT SLAB (BLOCK @ MID-HEIGHT) (3 5/8" x 14ga. STUDS)	32 L.F.	422 L.F.	
3 INSULATED LOAD BEARING STUDWALL (BLOCK @ MID-HEIGHT) (3 5/8" x 20ga. STUDS)	N/A	32 L.F.	
4 INSULATED NON-LOAD BEARING STUDWALL (NON-LOAD BEARING STUDWALL) (3 5/8" x 20ga. STUDS)	N/A	202 L.F.	
11 FIRE BARRIER... 3 HOUR RATED... (3 5/8" x 20ga. STUDS)	120 L.F.	0 L.F.	

NOTE #1: * = INSULATED (SEE ERC810X) - COORDINATE WITH FLOOR PLAN. (NOTE WALLS #3 AND #4 ARE ALWAYS INSULATED)
NOTE #2: GYPSUM BOARD AND RELATED FINISH MATERIALS MAY NOT BE PROVIDED BY BETCO - VERIFY WITH CONTRACT.
NOTE #3: SEE BLOCKING DETAIL A/831 ON ERC831X

1 EXTERIOR STUDWALL CONSTRUCTION @ FLAT SLAB:

- 3 5/8" METAL STUDS @ 24" O.C. - 14ga.
- 3 5/8" CONTINUOUS FLOOR AND CEILING TRACK - 18ga. - FASTEN W/ 3/8" x 3" KB-T22 ANCHOR (2" MIN. EMBEDMENT) @ 30" O.C. MAX.
- 3 5/8" x 3" POLYETHYLENE VAPOR BARRIER
- PRE-PAINTED EXTERIOR 236A WALL PANELS
- WALL PANEL BASE SUPPORT
- DRAIN CAP (1/8" DIA)
- 4" THICK (R-13) FIBERGLASS INSULATION
- 4 MIL POLYETHYLENE VAPOR BARRIER
- NO J-TIM REQUIRED AT TOP OF LINER PANELS
- 230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL AT BASE AND TOP W/ (4) EACH #8 SDF'S)
- J-TIM AT TOP OF LINER PANELS
- 230 LINER PANELS EACH SIDE (ATTACH EACH PANEL AT BASE AND TOP W/ (4) EACH #8 SDF'S)
- BLOCK STUDS AT MID-HEIGHT AS SHOWN IN ERC633X

3 INSULATED 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" PDP'S @ 24" O.C.)
- 4" THICK FIBERGLASS INSULATION
- 4 MIL POLYETHYLENE VAPOR BARRIER
- NO J-TIM REQUIRED AT TOP OF LINER PANELS
- 230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL AT BASE AND TOP W/ (4) EACH #8 SDF'S)
- BLOCK STUDS AT MID-HEIGHT AS SHOWN IN ERC633X

11 FIRE BARRIER... 3 HOUR RATED UL M19 (NON-LOAD BEARING) (SEE SHEET C84 FOR DESIGN)

- 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)
- GYPSUM BOARD (NOT BY BETCO) SHALL BE ATTACHED TO STUDS, FLOOR AND CEILING TRACK USING TYPE "B" SELF-TAPPING SCREWS ALONG EDGES OF BOARD BRACES @ 12" O.C. AND 12" IN THE FIELD (NOT BY BETCO).
- VINTL OR CASE-N, DRY OR FIRE-RESISTANT JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS SCREW-HEADS, PERFORATED PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS (NOT BY BETCO).

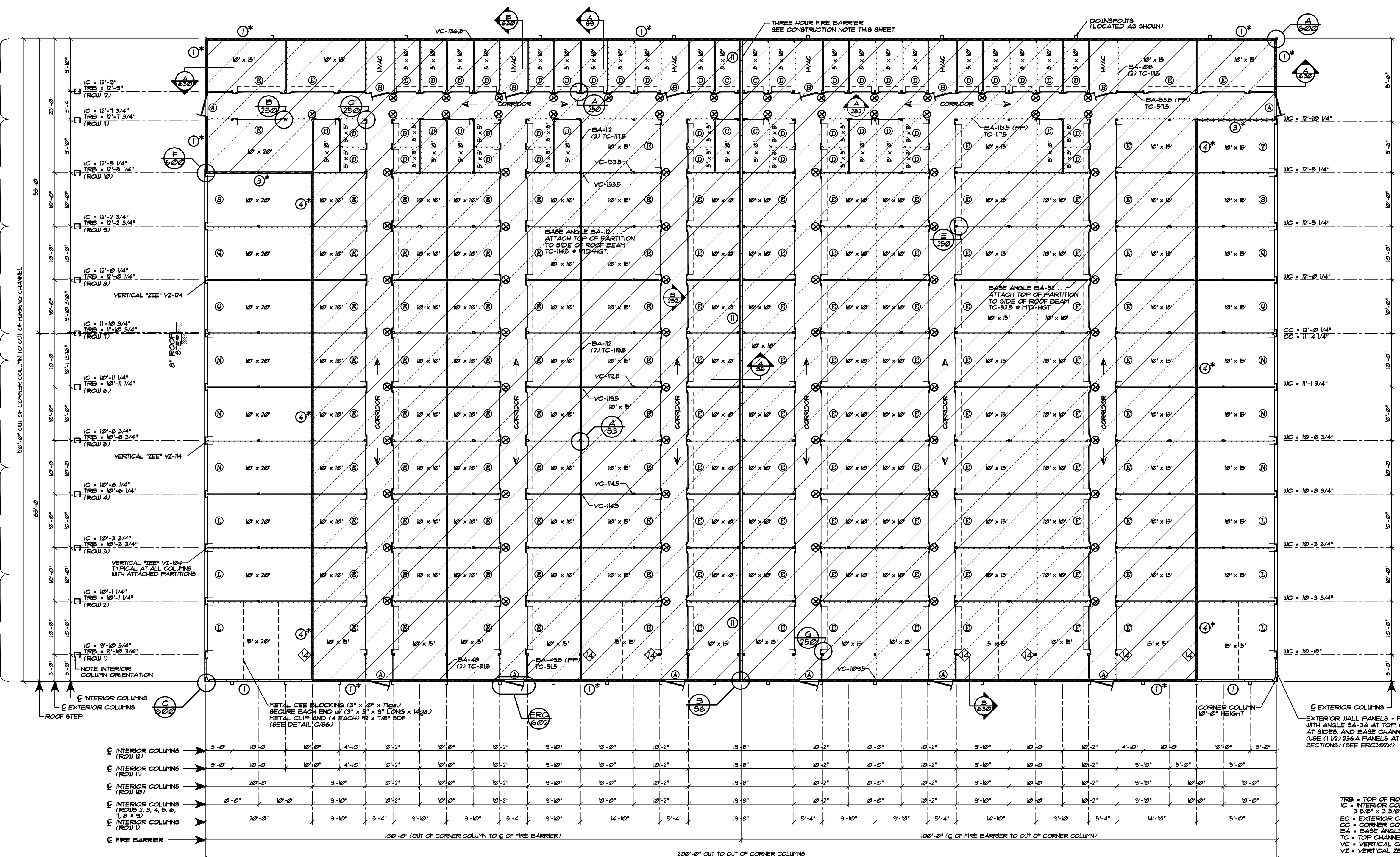
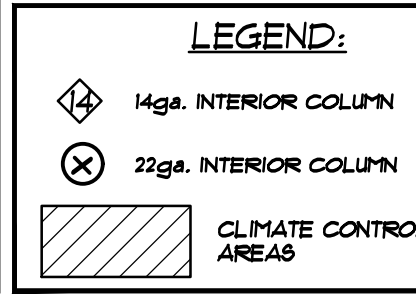
4 INSULATED NON-LOAD BEARING STUDWALL:

- 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" PDP'S @ 24" O.C.)
- 4" THICK FIBERGLASS INSULATION
- 4 MIL POLYETHYLENE VAPOR BARRIER
- J-TIM AT TOP OF LINER PANELS PERPENDICULAR TO ROOF FURLING
- 230 LINER PANELS @ INTERIOR (ATTACH EACH PANEL AT BASE AND TOP W/ (4) EACH #8 SDF'S)

NOTE: GENERAL STUDWALL CONSTRUCTION:
A) ATTACH STUDS W/ #8 x 8" SDF'S
B) WALLS MUST EXTEND FROM ROOF TO FLOOR DECK AND INTO WALL COLUMN CAVITY.
C) TOP TRACK MUST FOLLOW SLOPE OF ROOF LINE.

NOTE: BLOCK ALL LOAD-BEARING INTERIOR & EXTERIOR STUDWALLS AS SHOWN ON ERC DETAIL A/831.

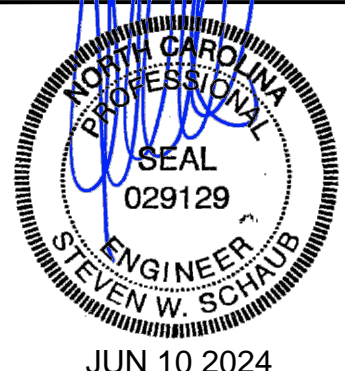
NOTE COLUMN ORIENTATION @ CORRIDORS PARALLEL TO ROOF BEAMS



FLOOR PLAN... BUILDING "G"
SCALE: 3/32" = 1'-0"

JAMB	ROLL-UP HEADER	SWING DOOR HEADER	BETCO, Inc. 225 Commerce Blvd. Statesville, NC 28625 Limited Engineering License # D-0140
8'-6"	18"	16 1/2"	

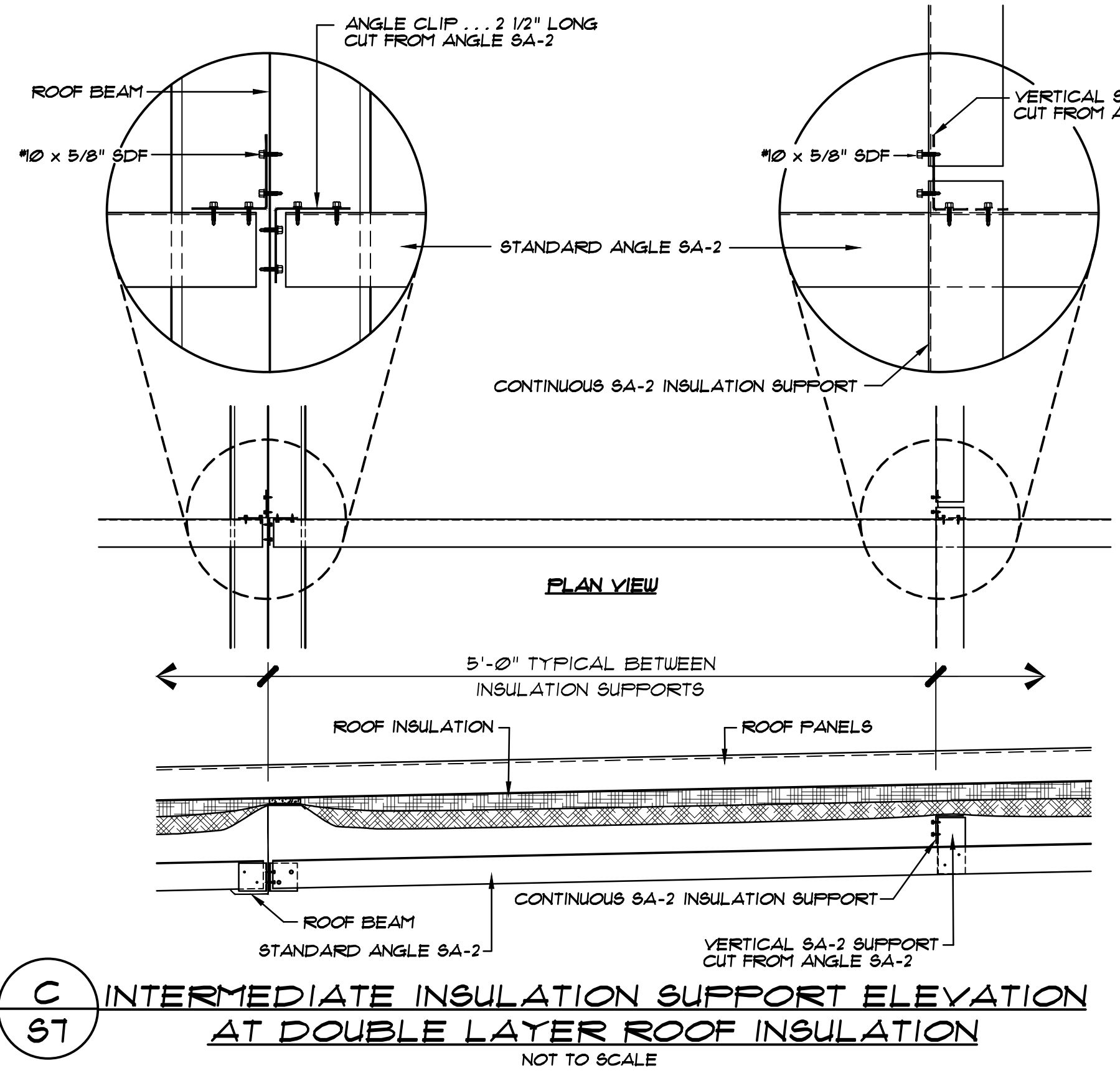
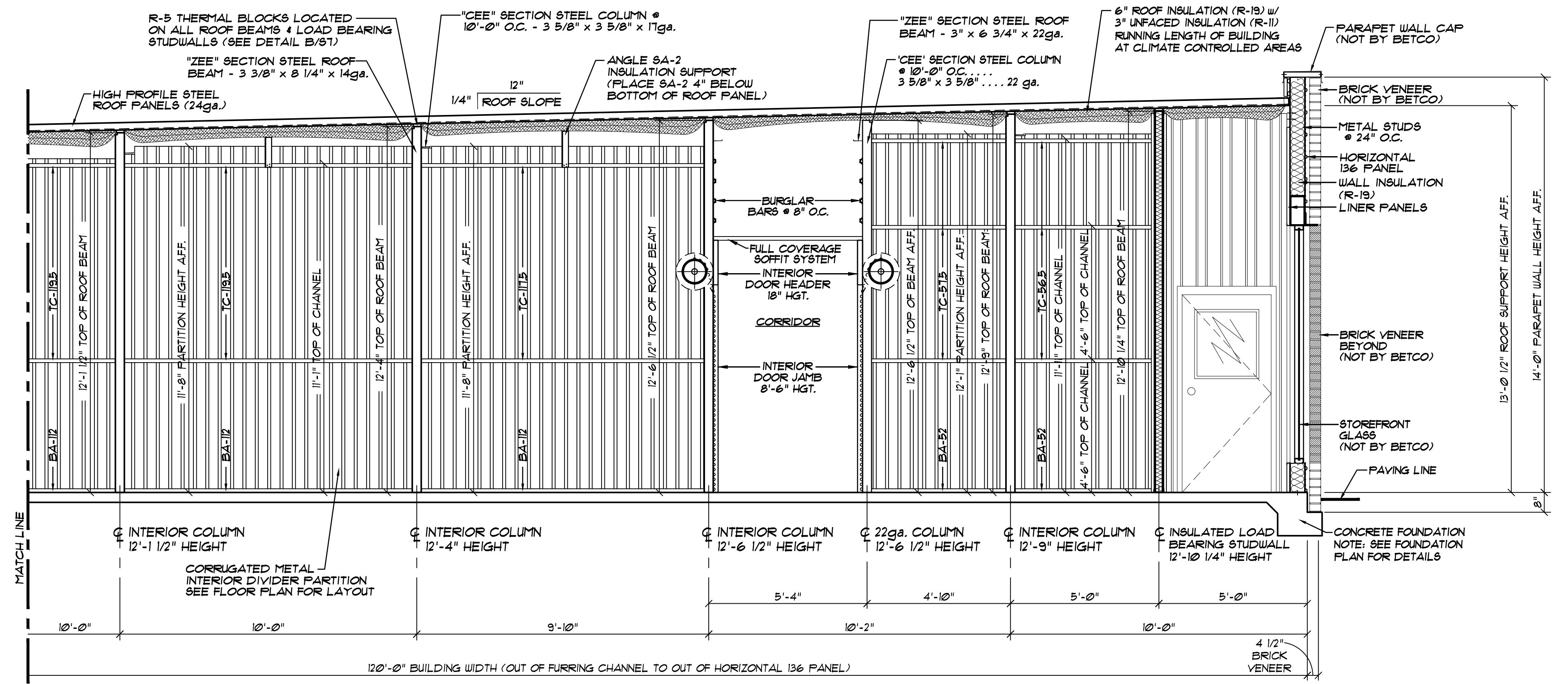
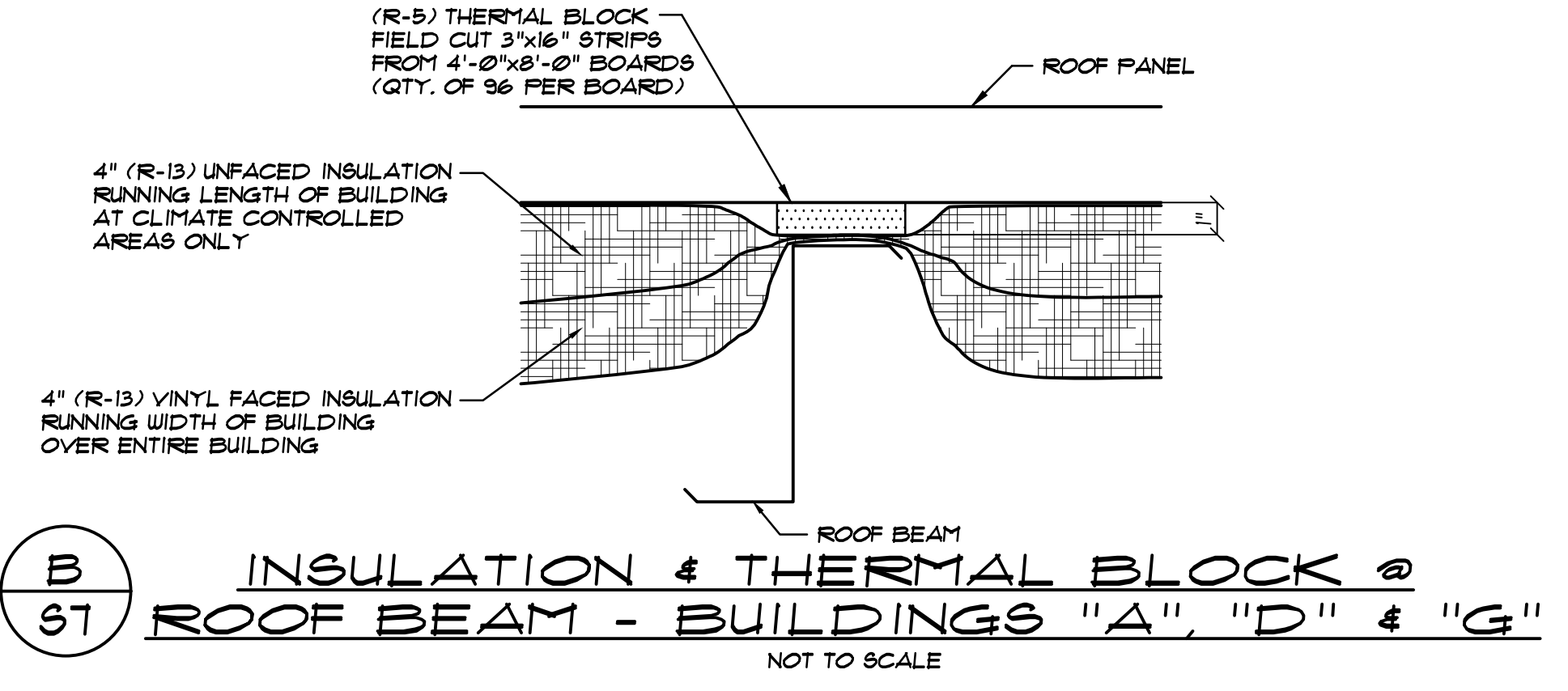
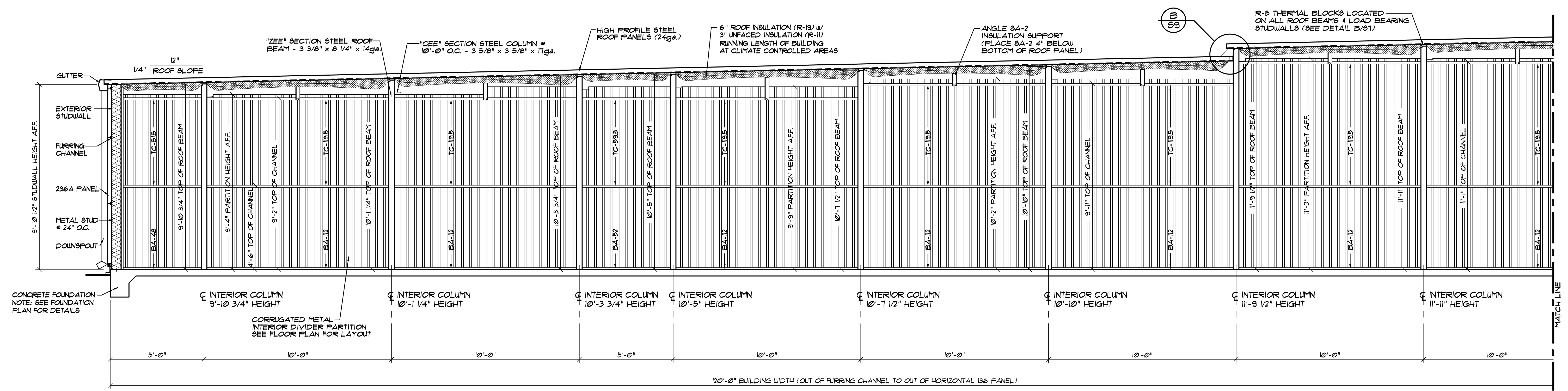
ID	DOOR SIZE	TYPE
A	4'-0" x 7'-0" (4070 - 1) (ERC254X)	SOLID PERSONNEL
B	3'-0" x 7'-0"	INTERIOR SWING DOOR WITH LOUVER
C	3'-0" x 7'-0"	INTERIOR ROLL-UP
D	3'-8" x 7'-0"	INTERIOR ROLL-UP
E	8'-0" x 7'-0"	INTERIOR ROLL-UP DOOR
F	8'-8" x 8'-3"	EXTERIOR ROLL-UP DOOR
G	8'-8" x 9'-1"	EXTERIOR ROLL-UP DOOR
H	8'-8" x 10'-0"	EXTERIOR ROLL-UP DOOR
I	8'-8" x 10'-5"	EXTERIOR ROLL-UP DOOR
J	8'-4" x 10'-5"	EXTERIOR ROLL-UP DOOR



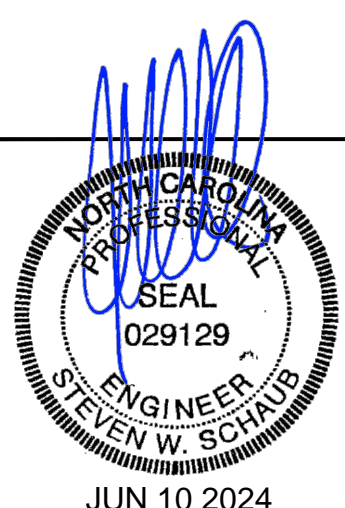
REVISIONS	DATE	BY
	12/29/23	J. HARE
		AS NOTED

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

PROJECT NAME:	PROJECT ADDRESS:	PROJECT NO.:
AMPLE STORAGE	ERWIN, NORTH CAROLINA	NC23237
OWNER:	LAMPE MANAGEMENT COMPANY	DRAWING NUMBER:
SHEET TITLE:	FLOOR PLAN, DETAILS & NOTES BUILDING "G"	S6



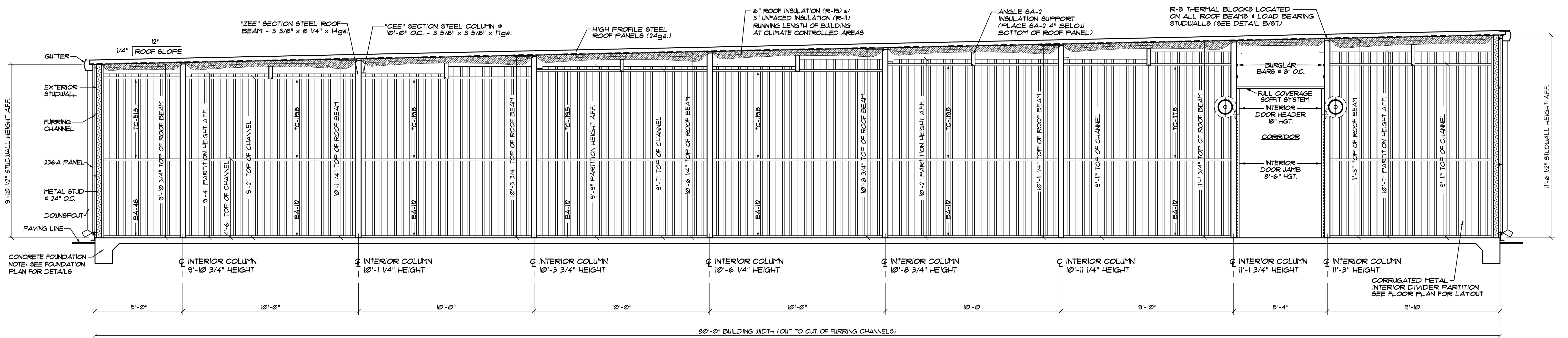
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 Statesville, NC 28625
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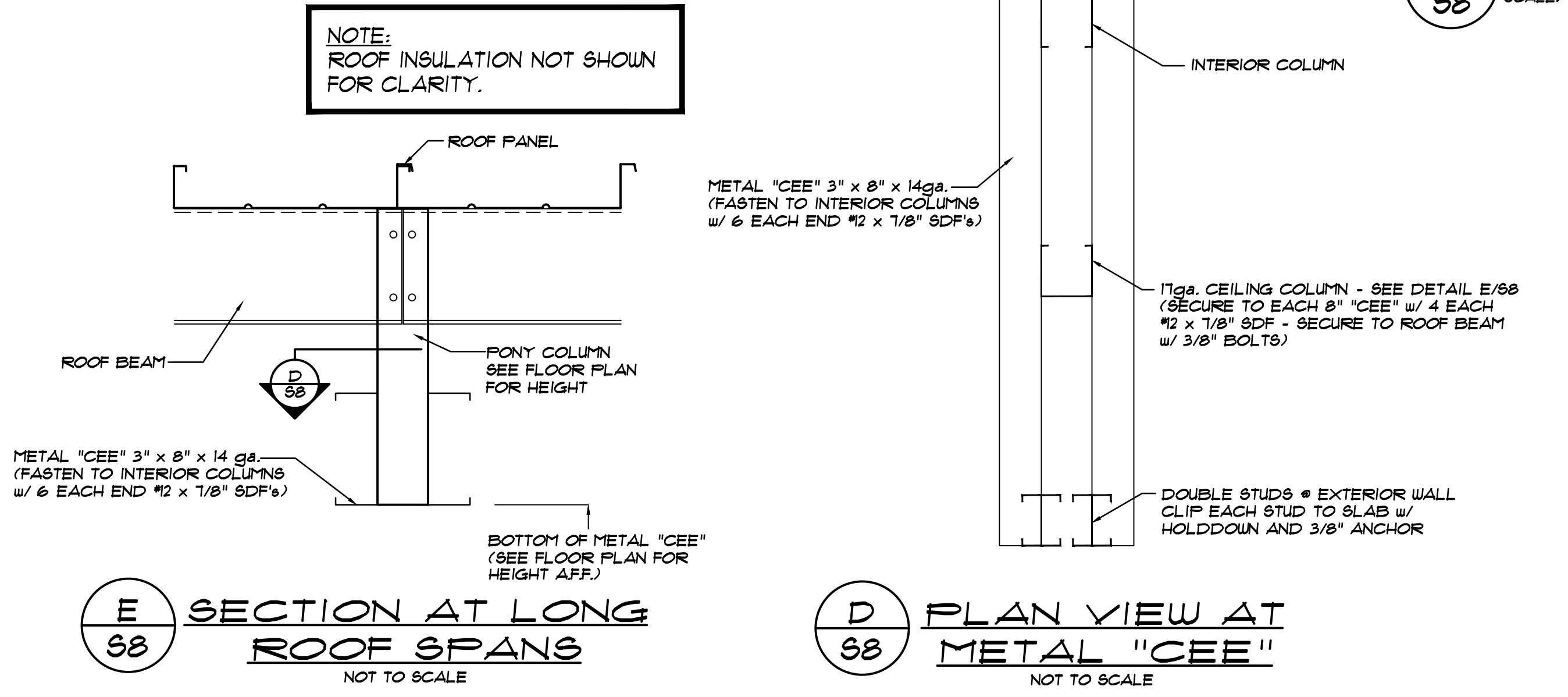
DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS:	
DATE:	
BY:	

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

PROJECT NAME:	AMPLE STORAGE	
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA	
OWNER:	LAMPE MANAGEMENT COMPANY	PROJECT NO.: NC23237
SHEET TITLE:	CROSS SECTION & DETAILS BUILDING "A"	DRAWING NUMBER: S7

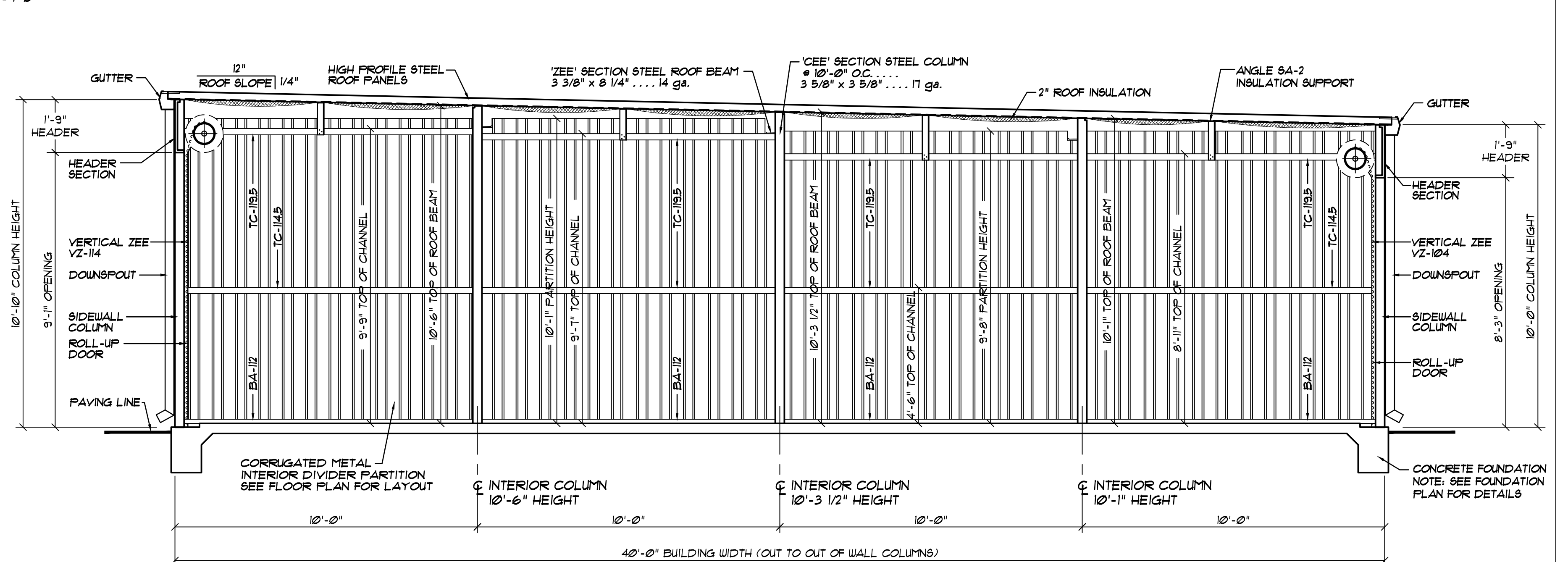


A 80'-0" WIDE CROSS SECTION ... BUILDING "D"
 SCALE: 3/8" = 1'-0"

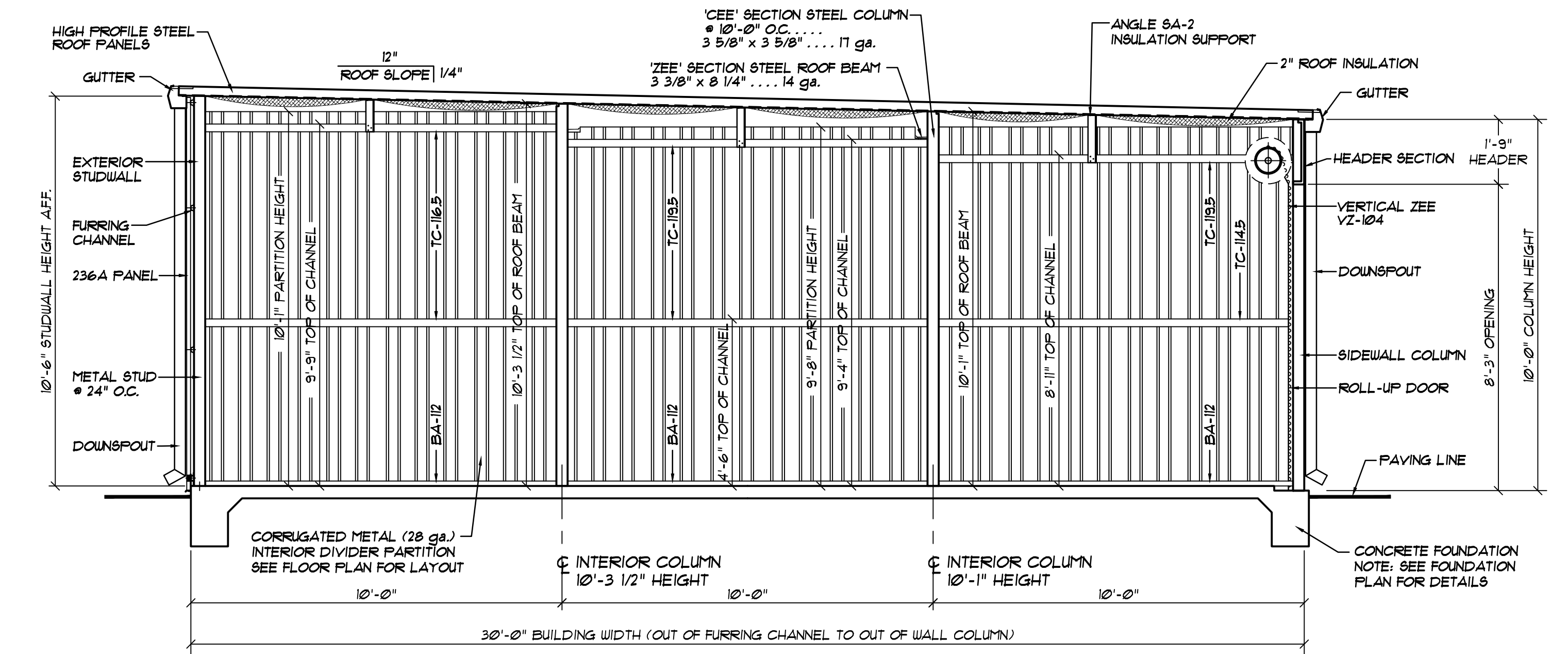


E SECTION AT LONG ROOF SPANS
 NOT TO SCALE

D PLAN VIEW AT METAL "CEE"
 NOT TO SCALE

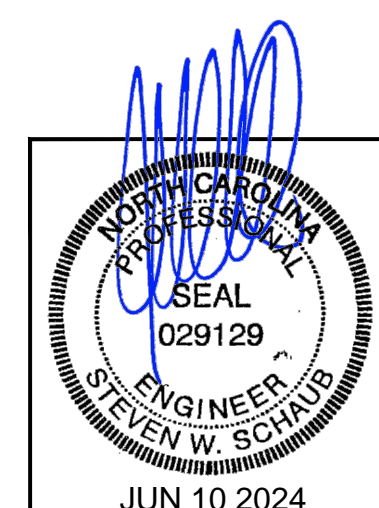


B 40'-0" WIDE CROSS SECTION ... BUILDING "E"
 SCALE: 3/8" = 1'-0"



C 30'-0" WIDE CROSS SECTION ... BUILDING "B"
 SCALE: 3/8" = 1'-0"

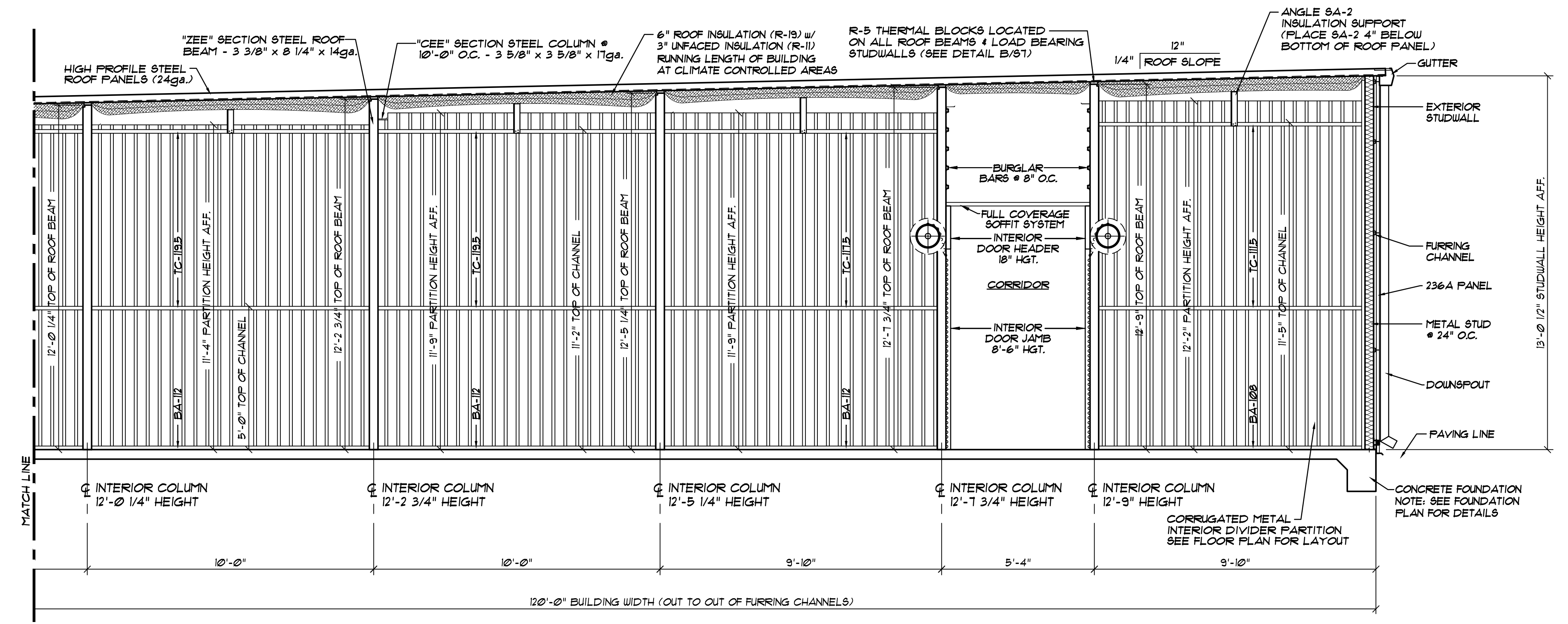
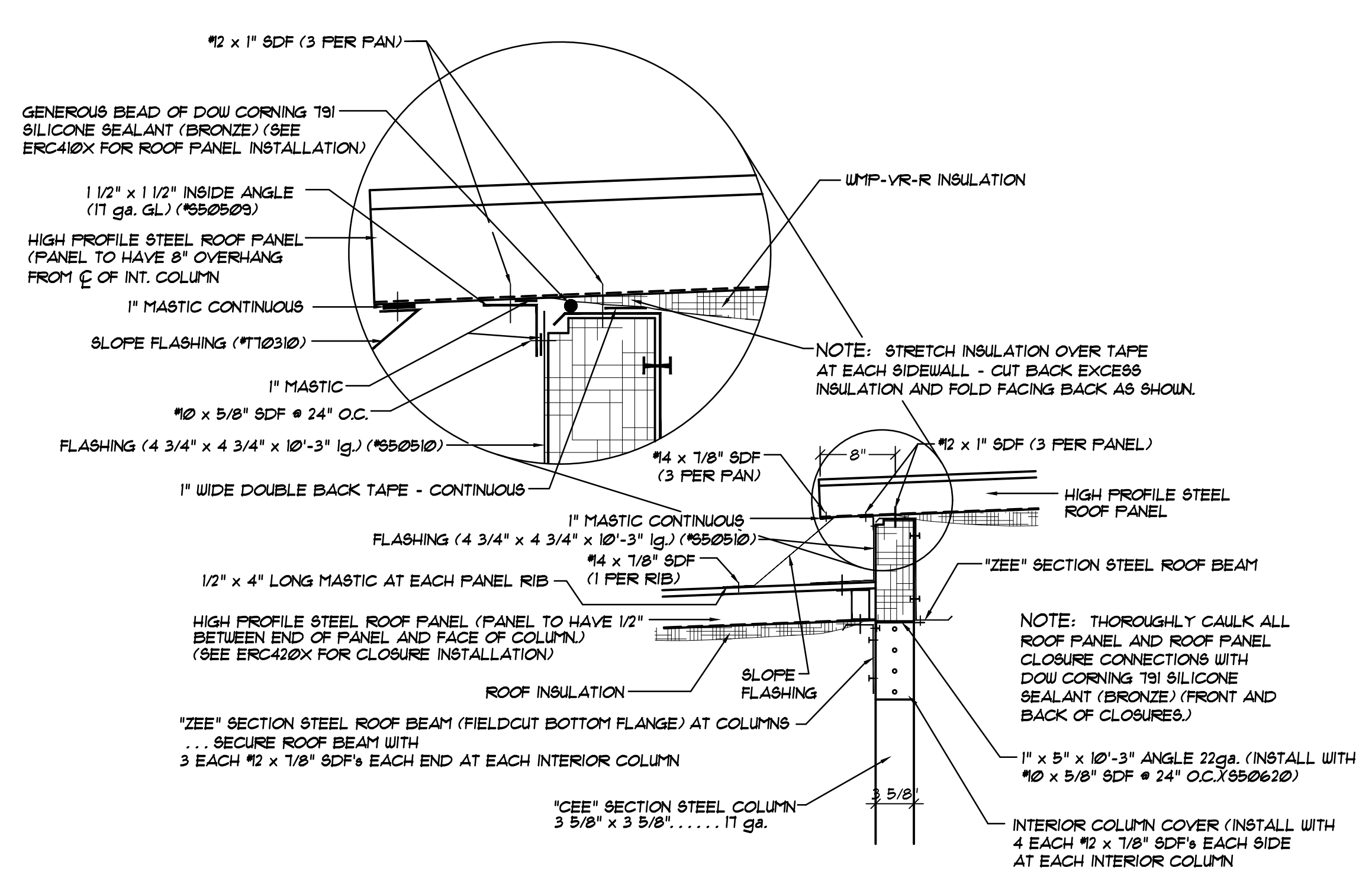
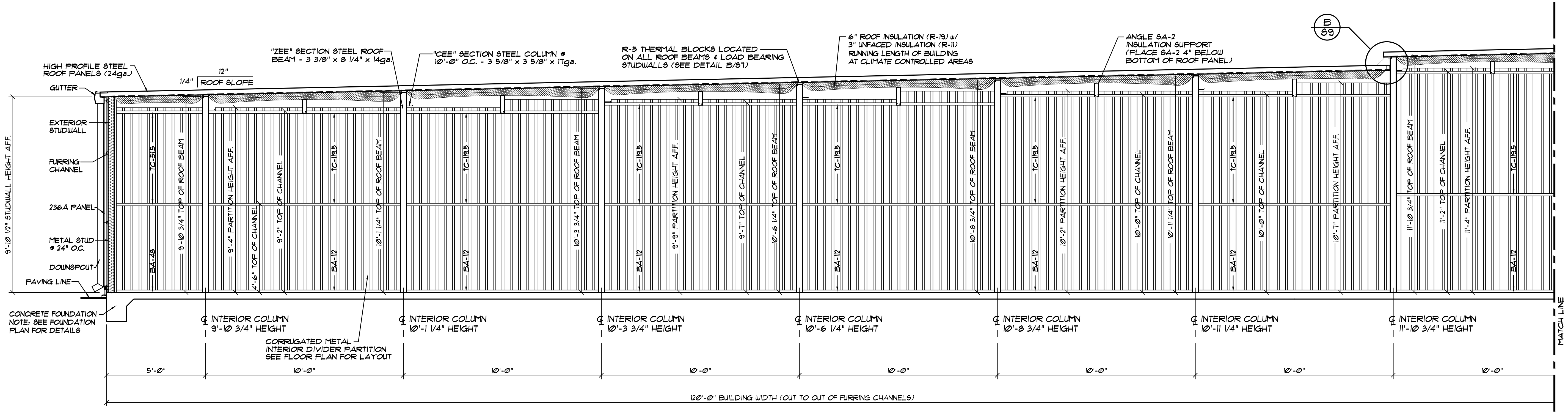
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DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS:	
DATE:	
BY:	

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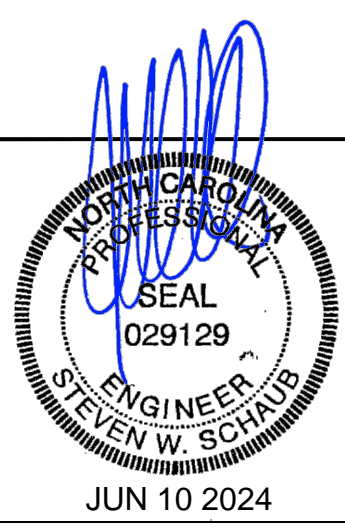
PROJECT NAME:	AMPLE STORAGE	
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA	
OWNER:	LAMPE MANAGEMENT COMPANY	PROJECT NO.: NC23237
SHEET TITLE:	CROSS SECTIONS & DETAILS BUILDINGS "B", "D" & "E"	DRAWING NUMBER: S8



B SECTION @ ROOF PANEL STEP @ COLUMN/ROOF BEAM
 S9 NOT TO SCALE

A 120'-0" WIDE CROSS SECTION... BUILDING "G"
 S9 SCALE: 3/8" = 1'-0"

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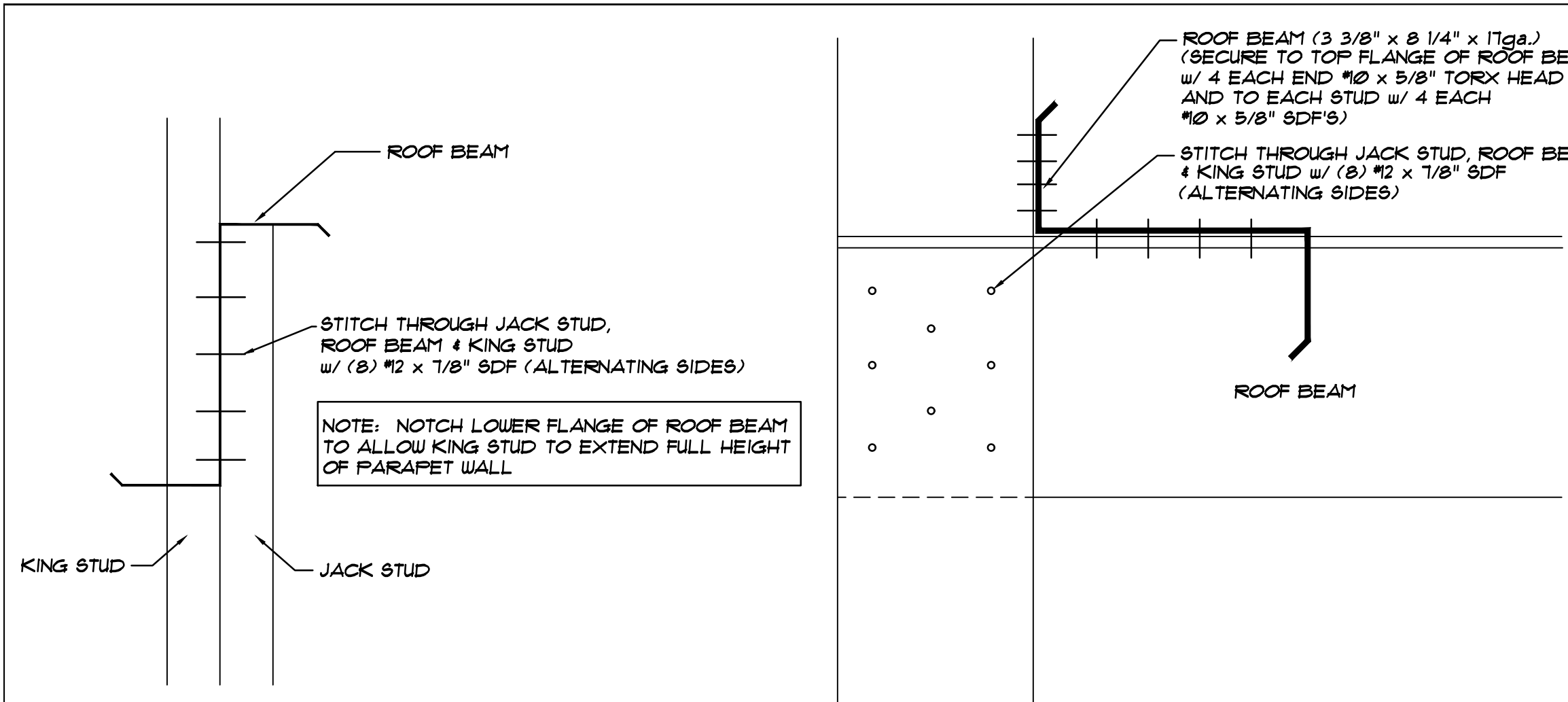


REVISIONS	DATE	BY

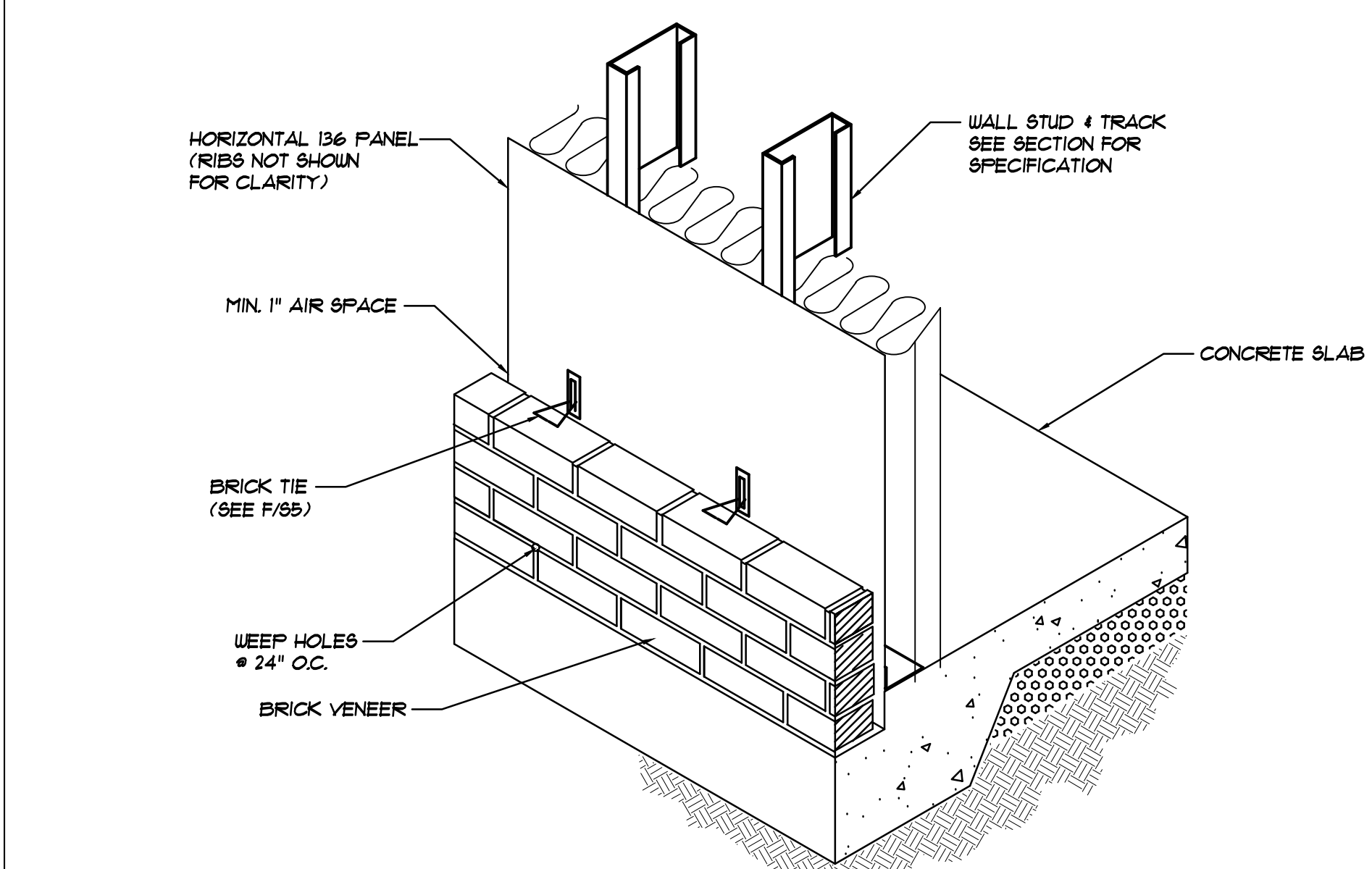
DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY:

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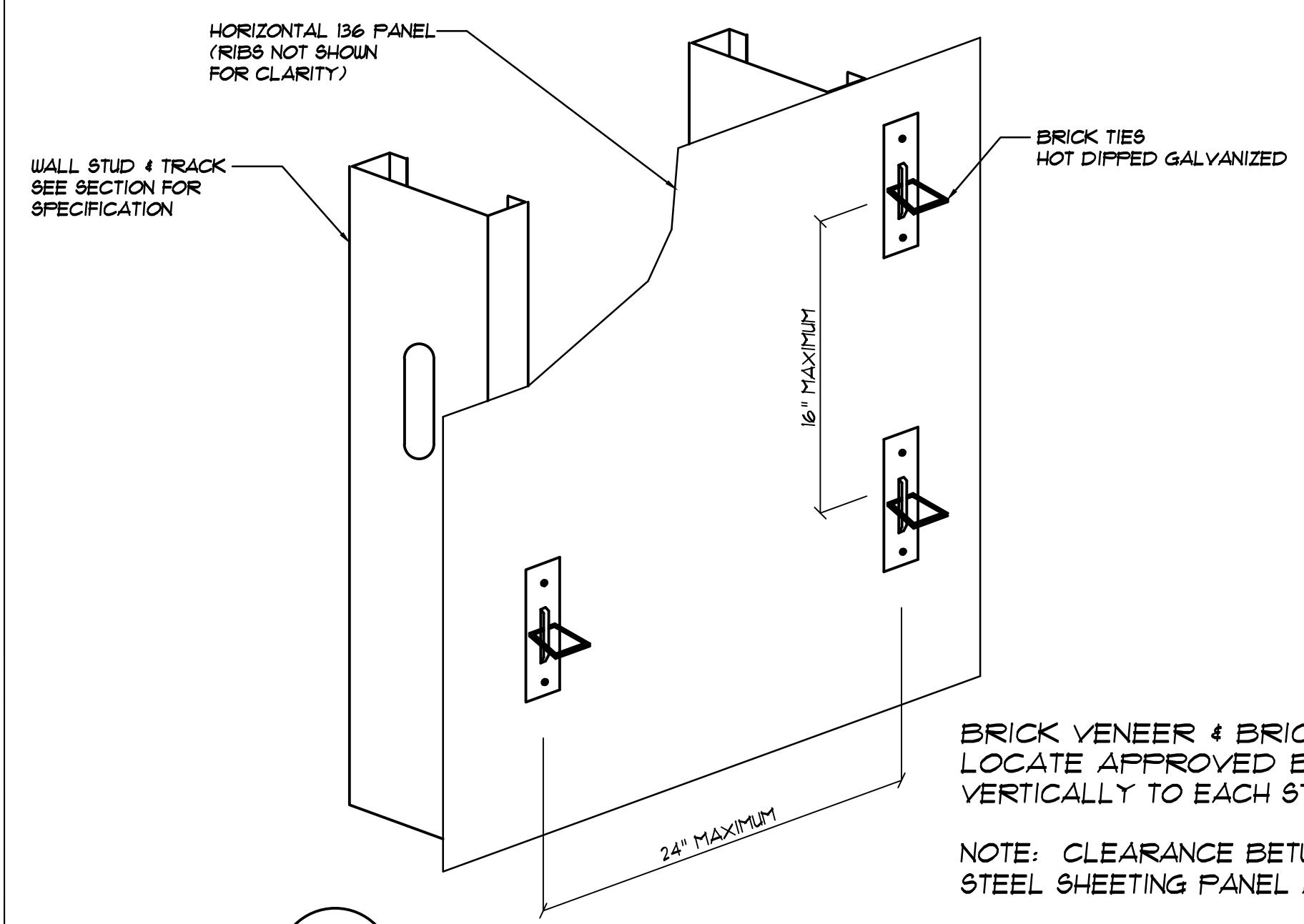
PROJECT NAME: AMPLE STORAGE		PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA		DRAWING NUMBER: S9
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: CROSS SECTION & DETAIL BUILDING "G"	



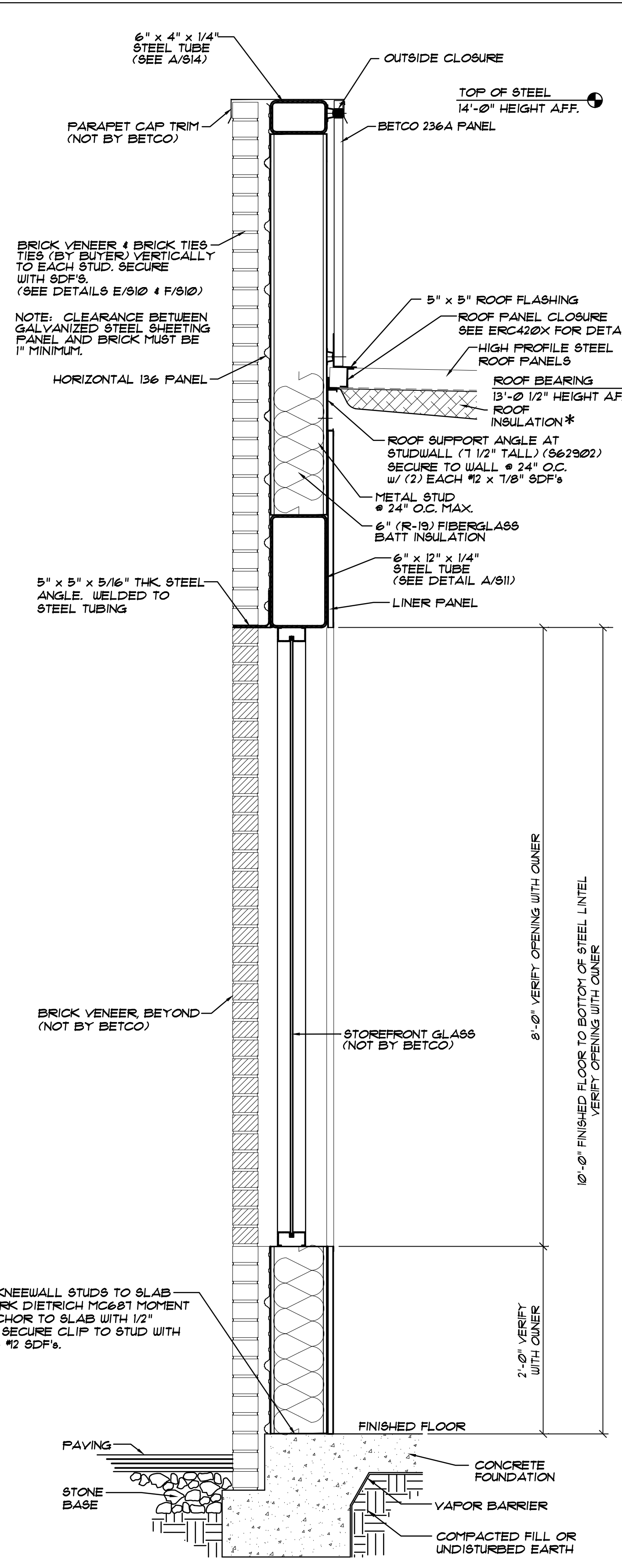
D DETAIL AT ROOF BEAM TIE IN TO PARAPET WALL
S10 NOT TO SCALE



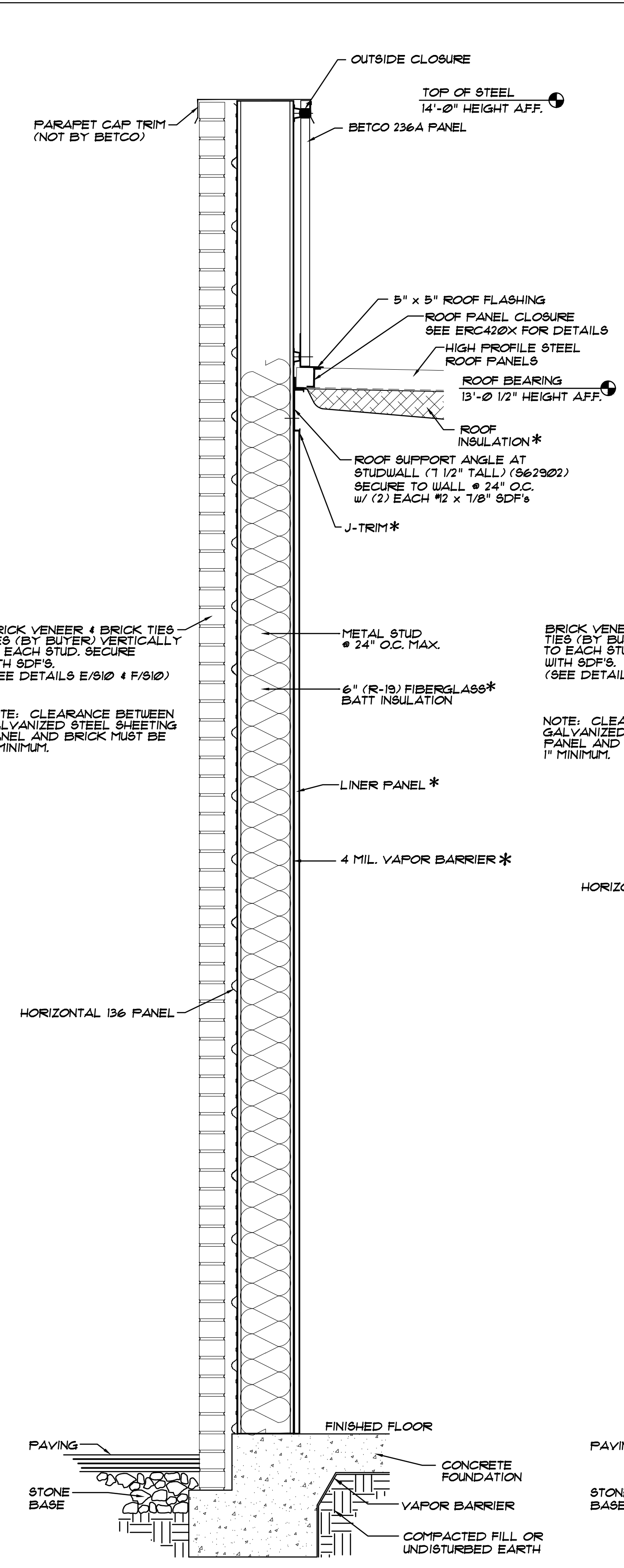
E BRICK FINISH w/ WALL MATERIALS
S10 NOT TO SCALE



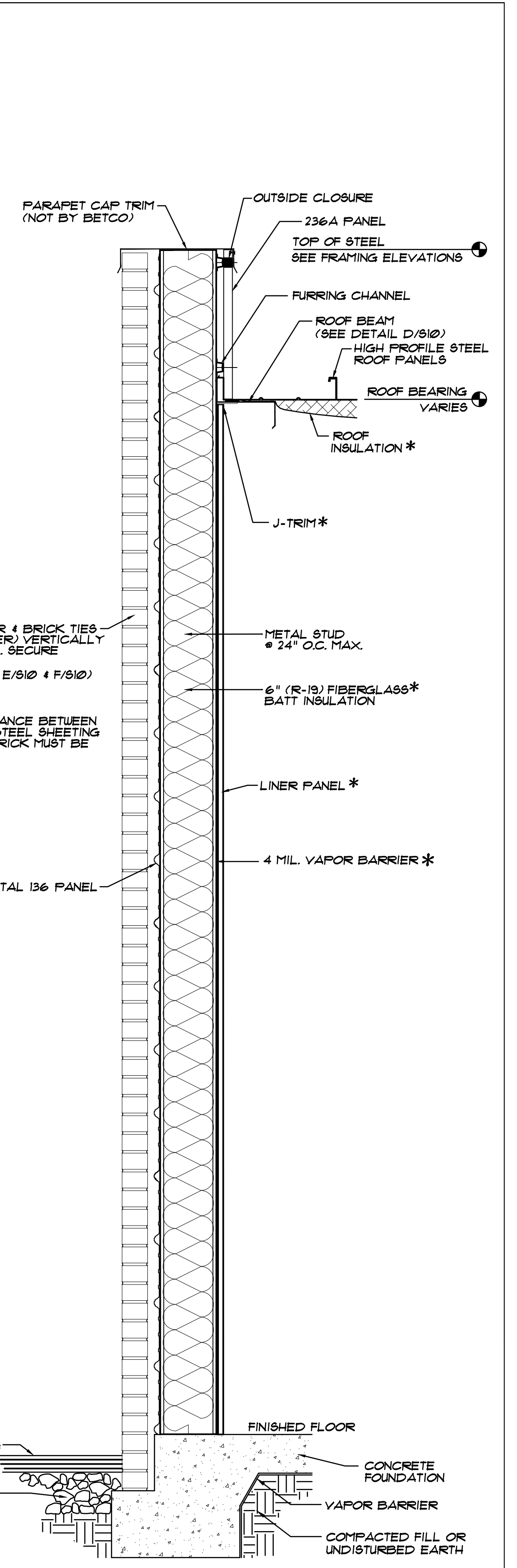
F BRICK BACKUP WALL SYSTEM
S10 NOT TO SCALE



C SECTION AT SIDEWALL
S10 NOT TO SCALE

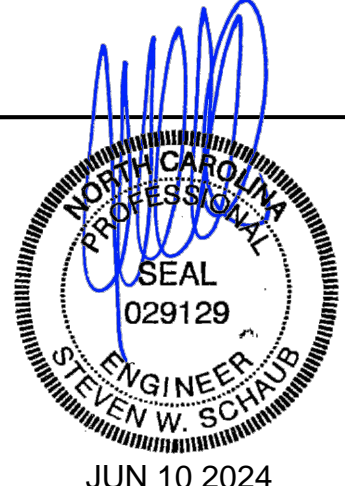


B SECTION AT SIDEWALL
S10 NOT TO SCALE



A SECTION AT ENDWALL
S10 NOT TO SCALE

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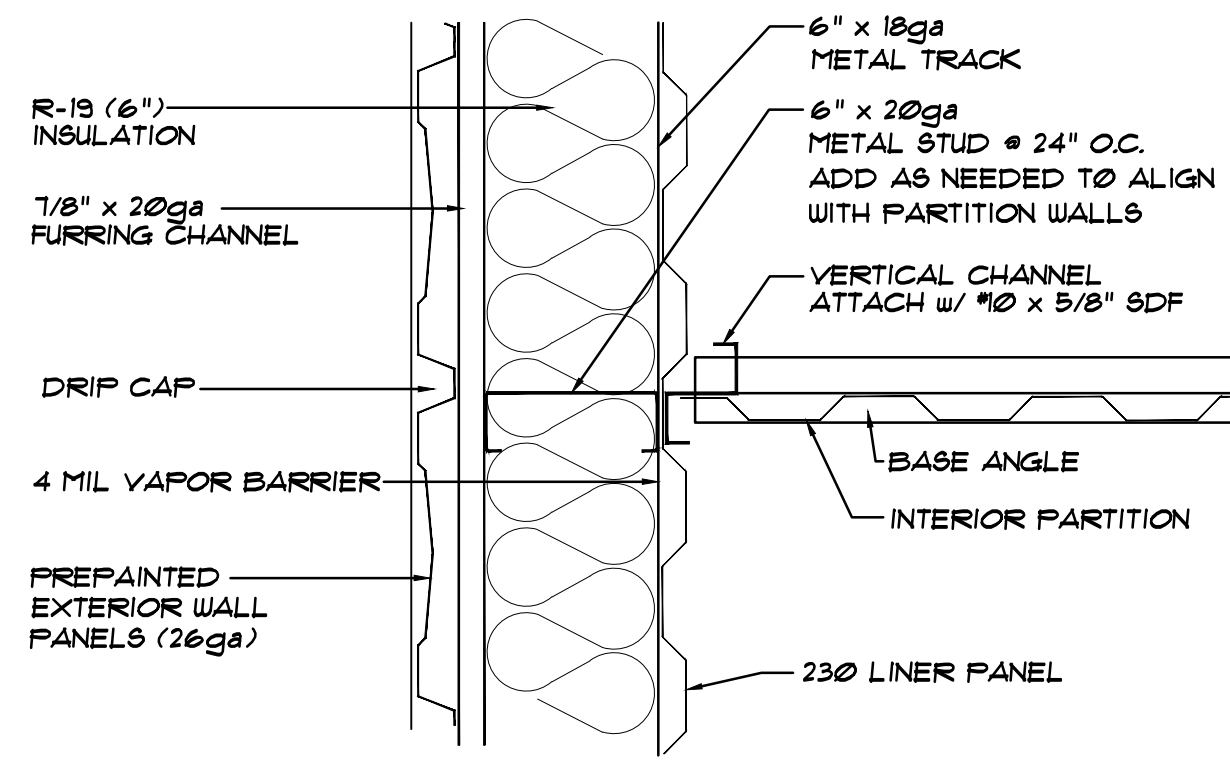


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DATE: 1/19/24
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SCALE: AS NOTED
APPROVED BY:



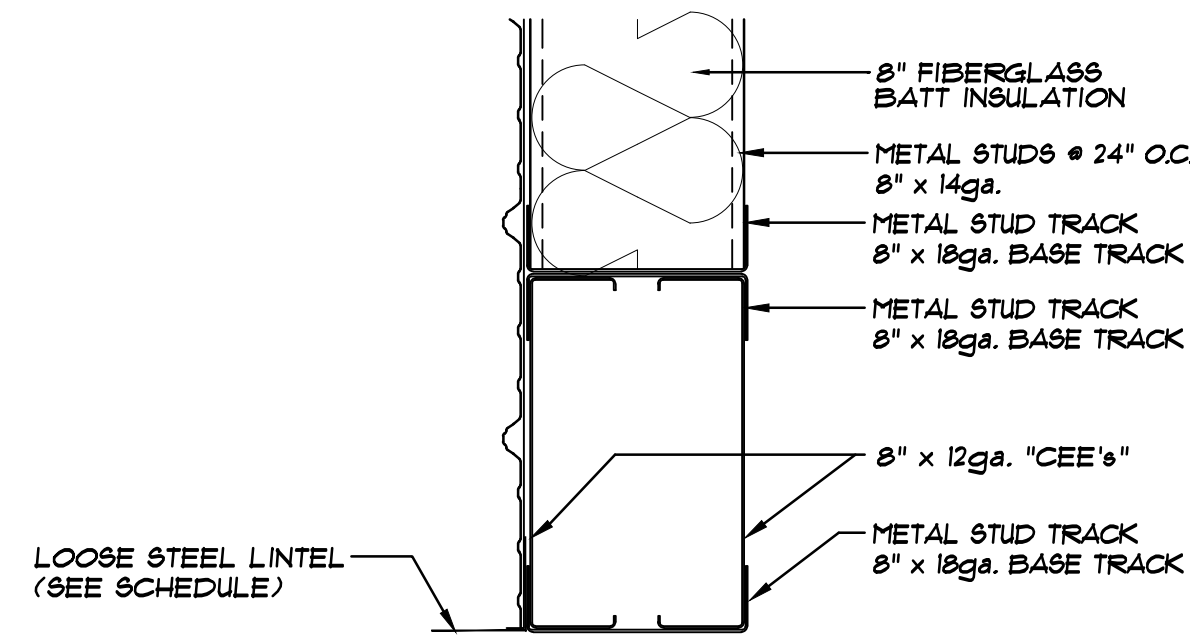
PROJECT NAME: AMPLE STORAGE		PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA		DRAWING NUMBER: S10
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: BUILDING DETAILS BUILDING "A"	



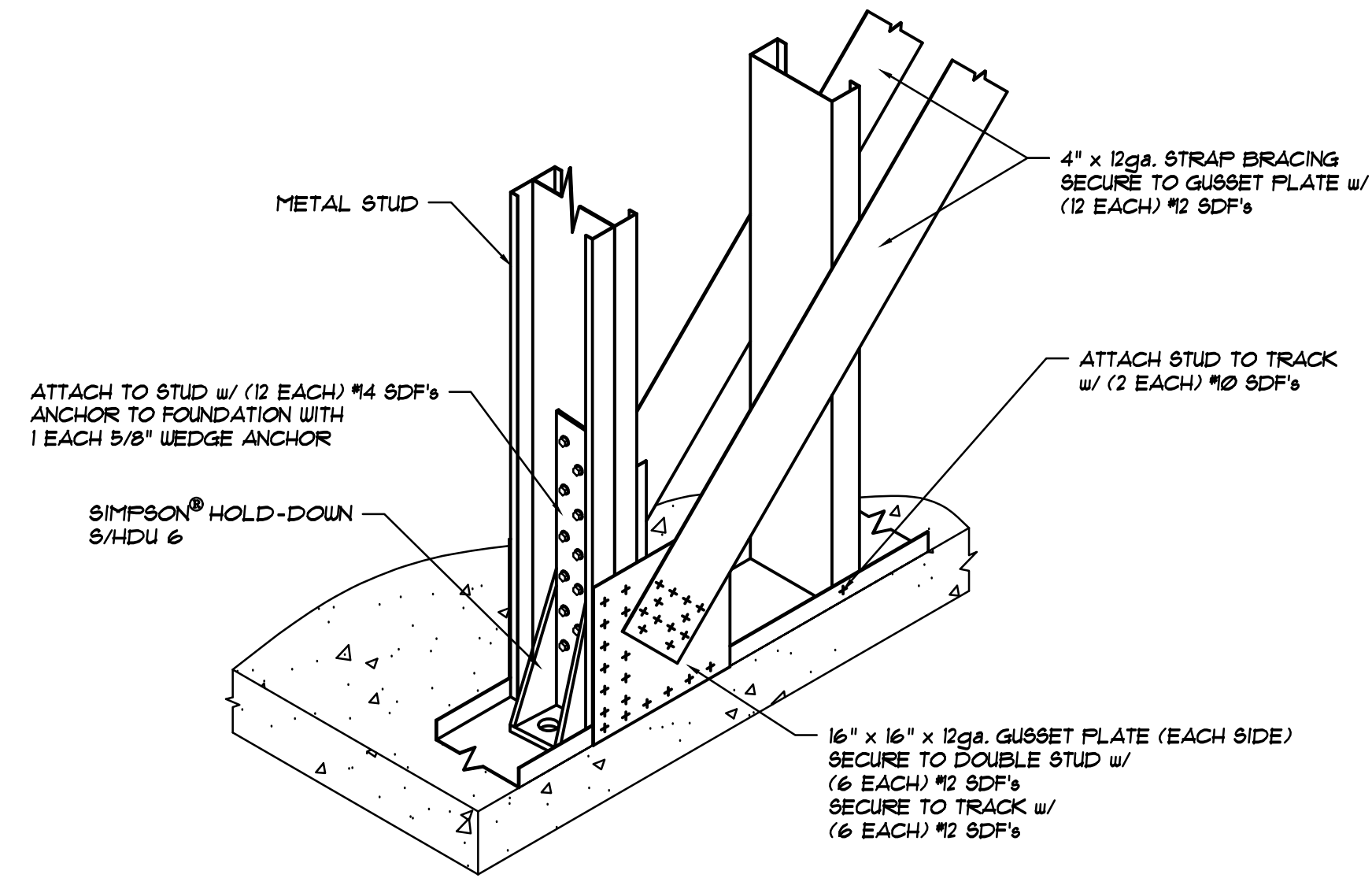
G PARTITION INSTALLATION AT INSULATED EXTERIOR STUDWALL
NOT TO SCALE

BRICK LINTEL SCHEDULE	
MAX OPENING WIDTH	STEEL ANGLE
4'-0"	L 3" x 3 1/2" x 1/4" LLH

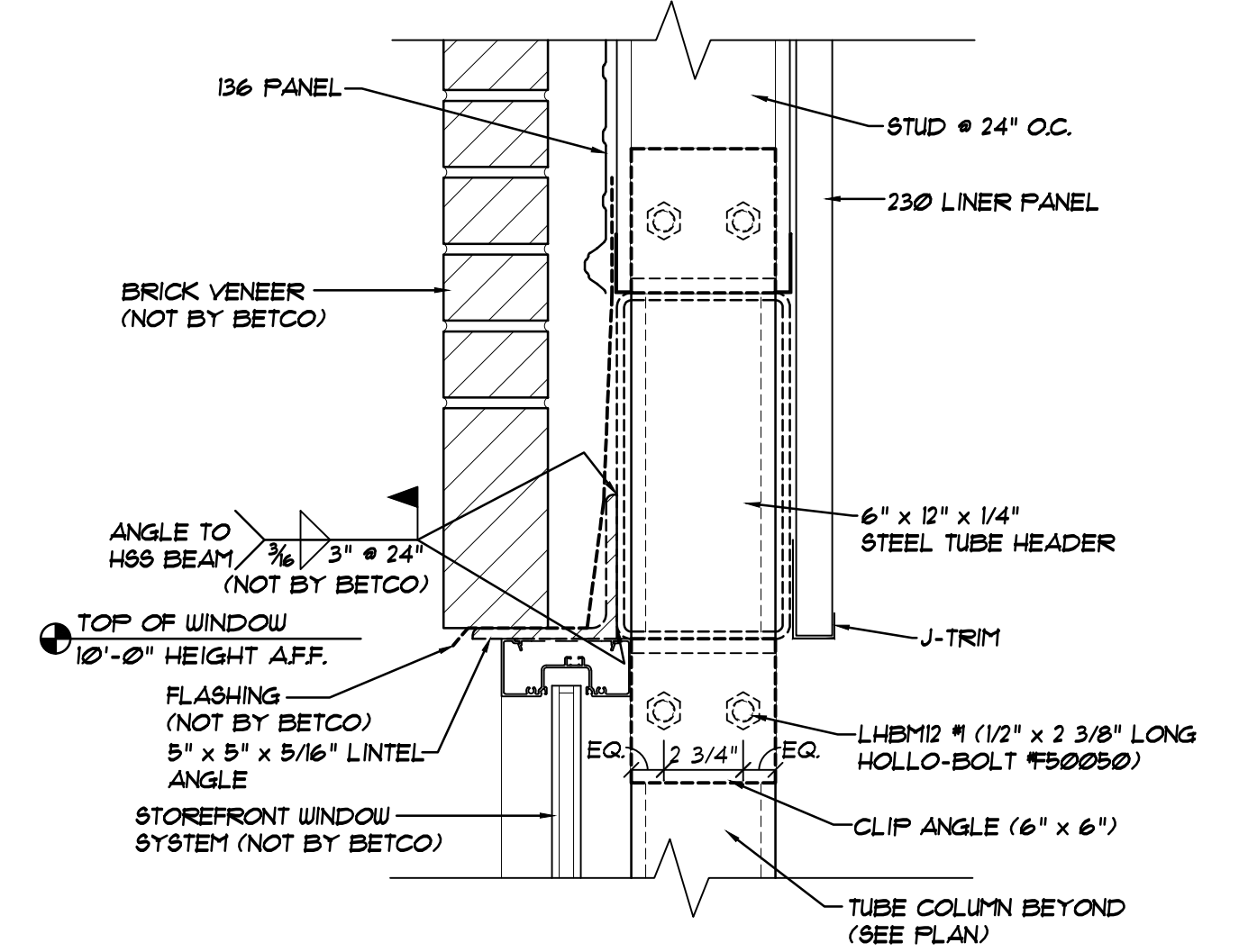
NOTES:
1. PROVIDE 8" MINIMUM BEARING.
2. ALL EXPOSED LINTELS TO BE HOT DIP GALVANIZED.
3. ABOVE SCHEDULE FOR LOOSE LINTELS. (NOT BY BETCO)



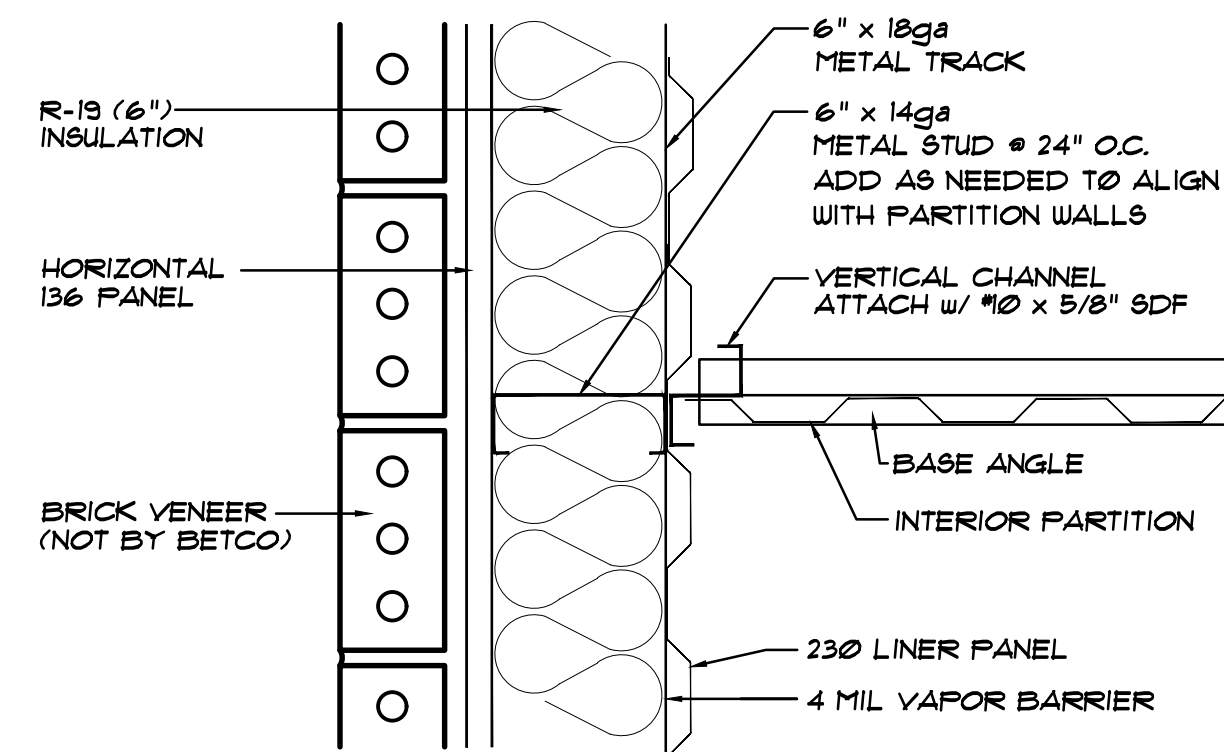
F TYPICAL HEADER DETAIL @ BRICK
NOT TO SCALE



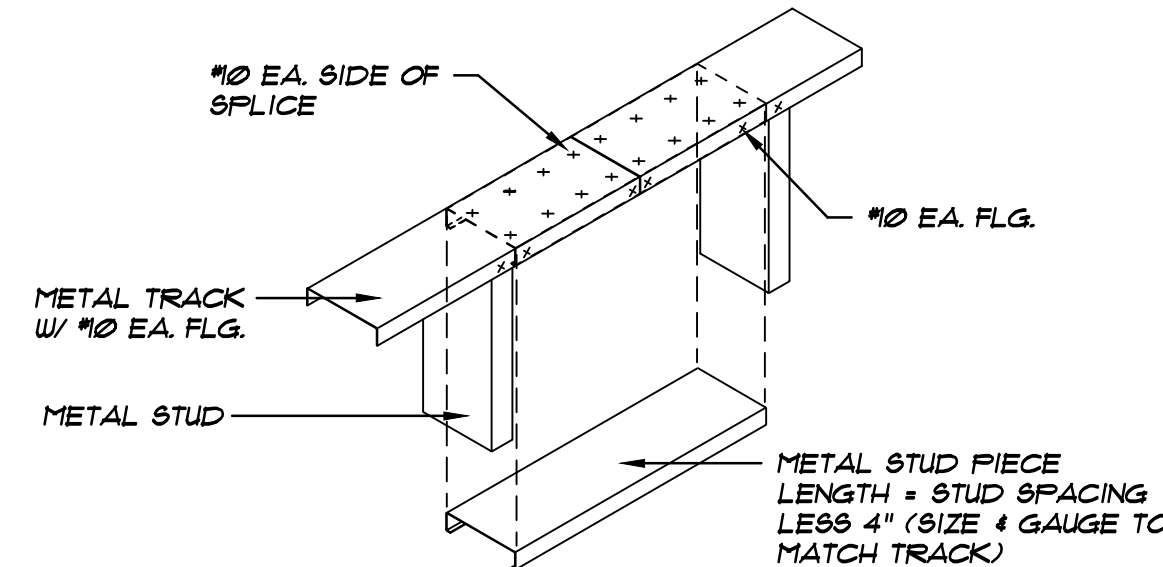
D SHEAR WALL UPLIFT ANCHORING
SCALE: NONE



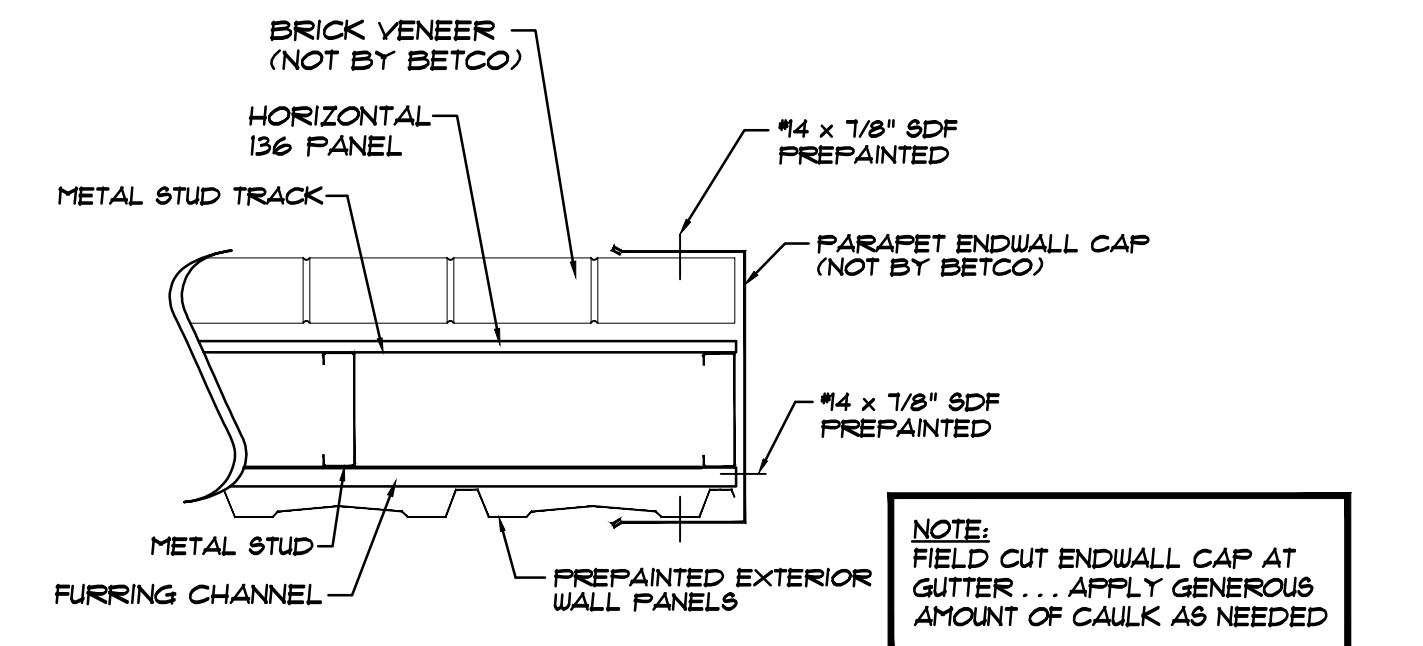
A STEEL COLUMN DETAIL
NOT TO SCALE



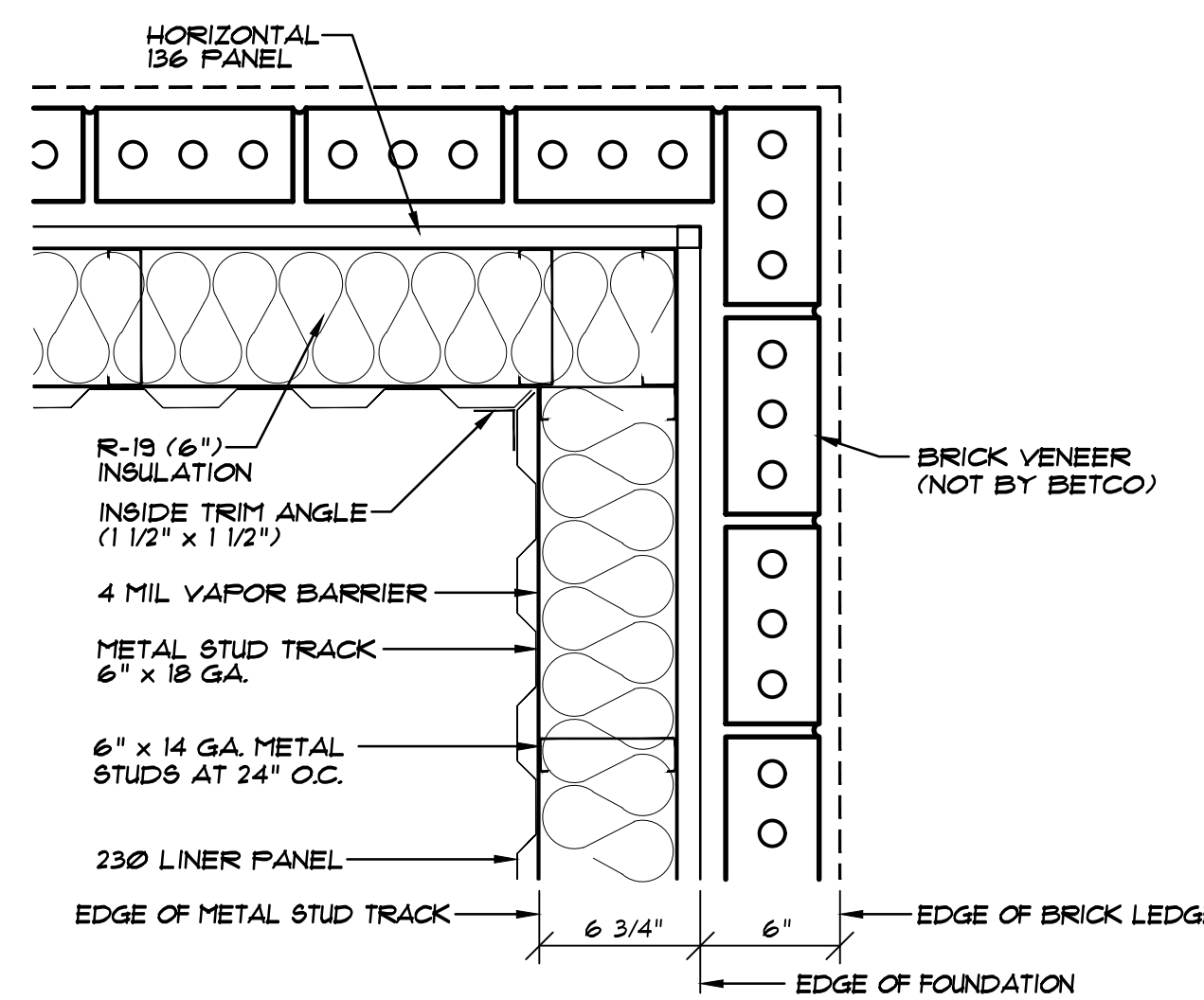
H PARTITION INSTALLATION AT INSULATED EXTERIOR STUDWALL
NOT TO SCALE



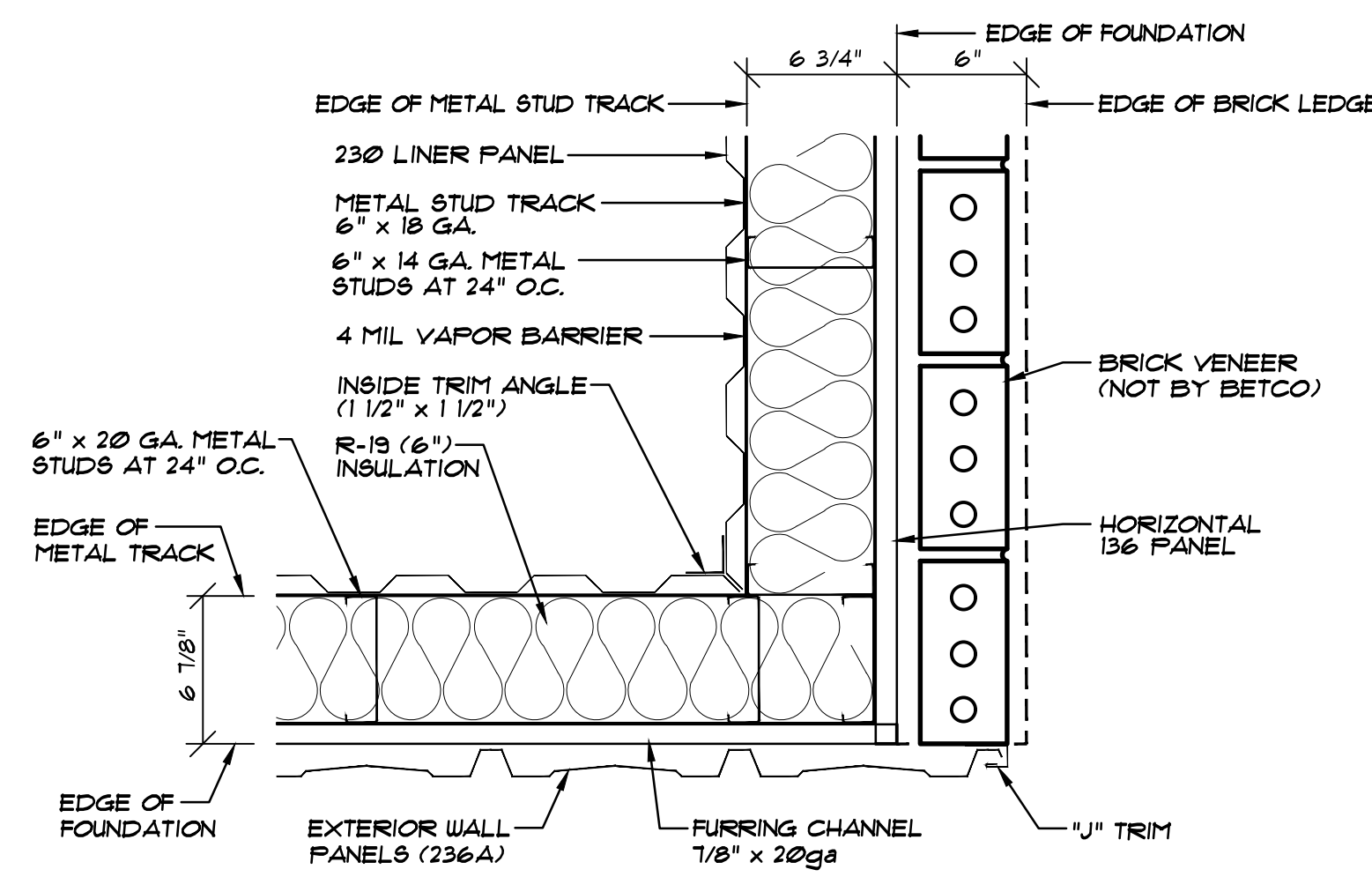
E TRACK SPLICE DETAIL - EXTERIOR WALL
NOT TO SCALE



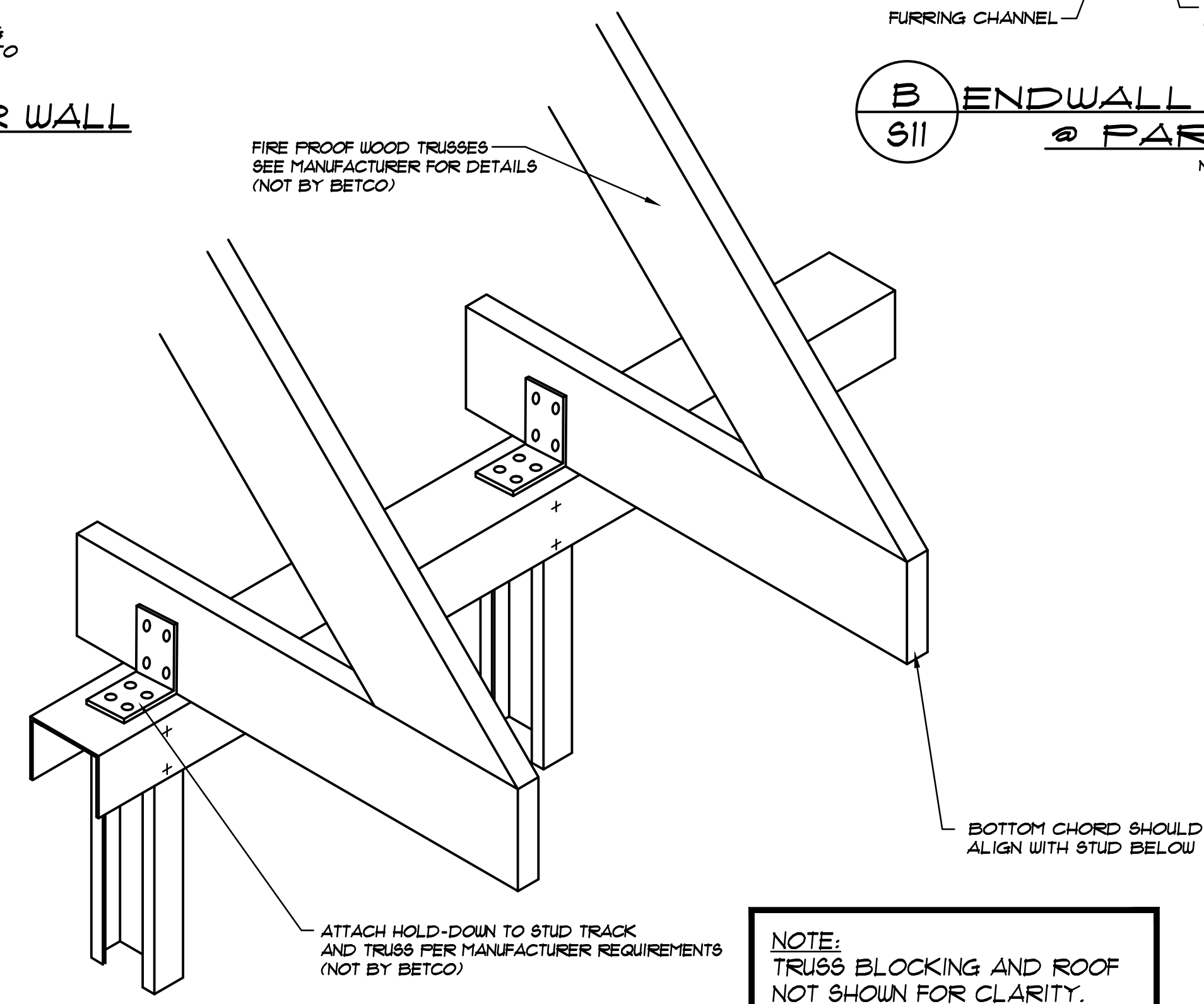
B ENDWALL CAP FLASHING @ PARAPET WALL
NOT TO SCALE



K INSULATED STUDWALL CORNER @ BRICK VENEER DETAIL
NOT TO SCALE

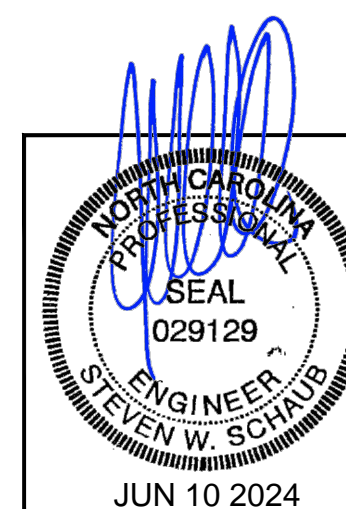


J INSULATED STUDWALL CORNER DETAIL
NOT TO SCALE



C HOLD-DOWN CLIPS
NOT TO SCALE

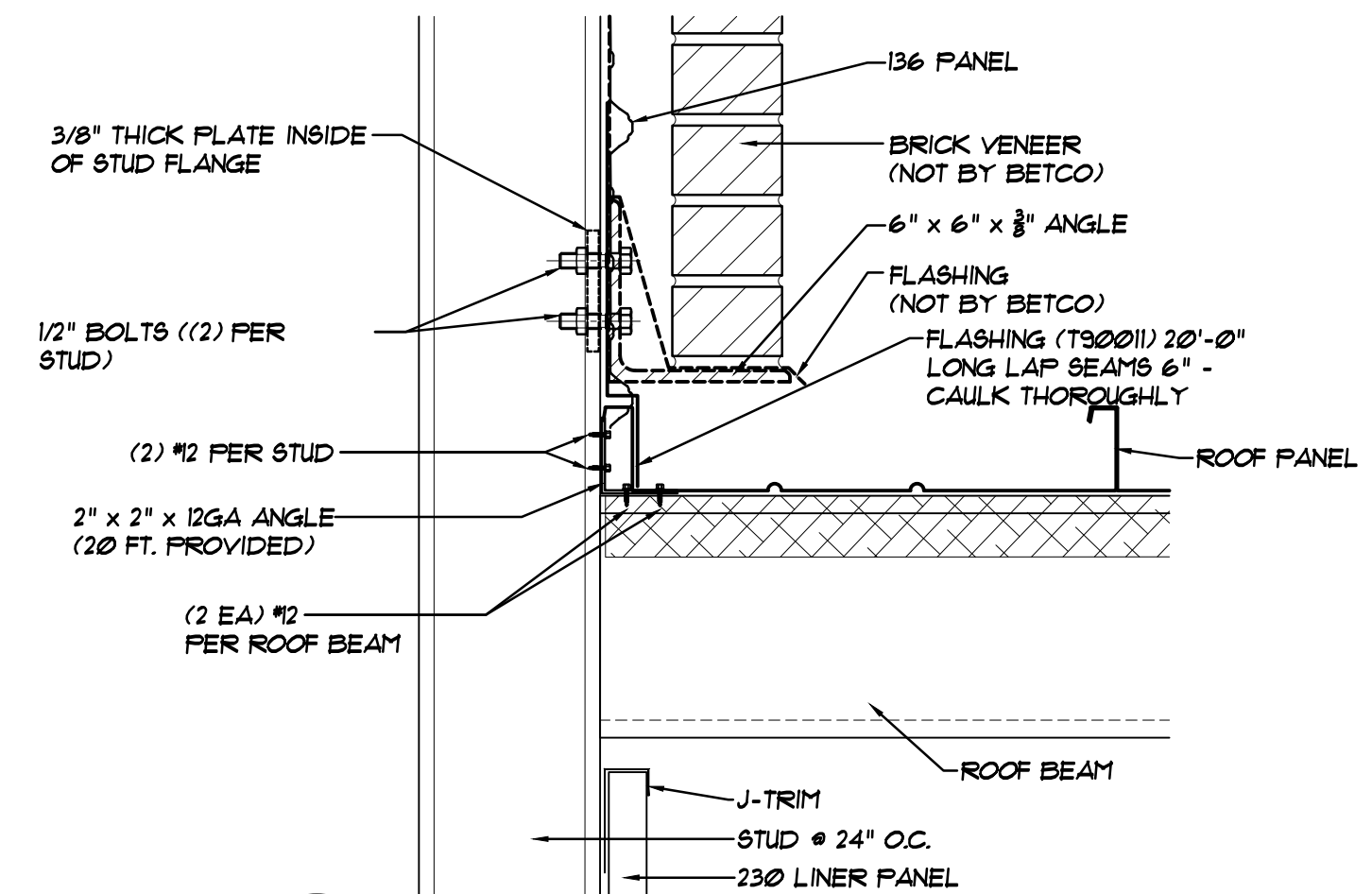
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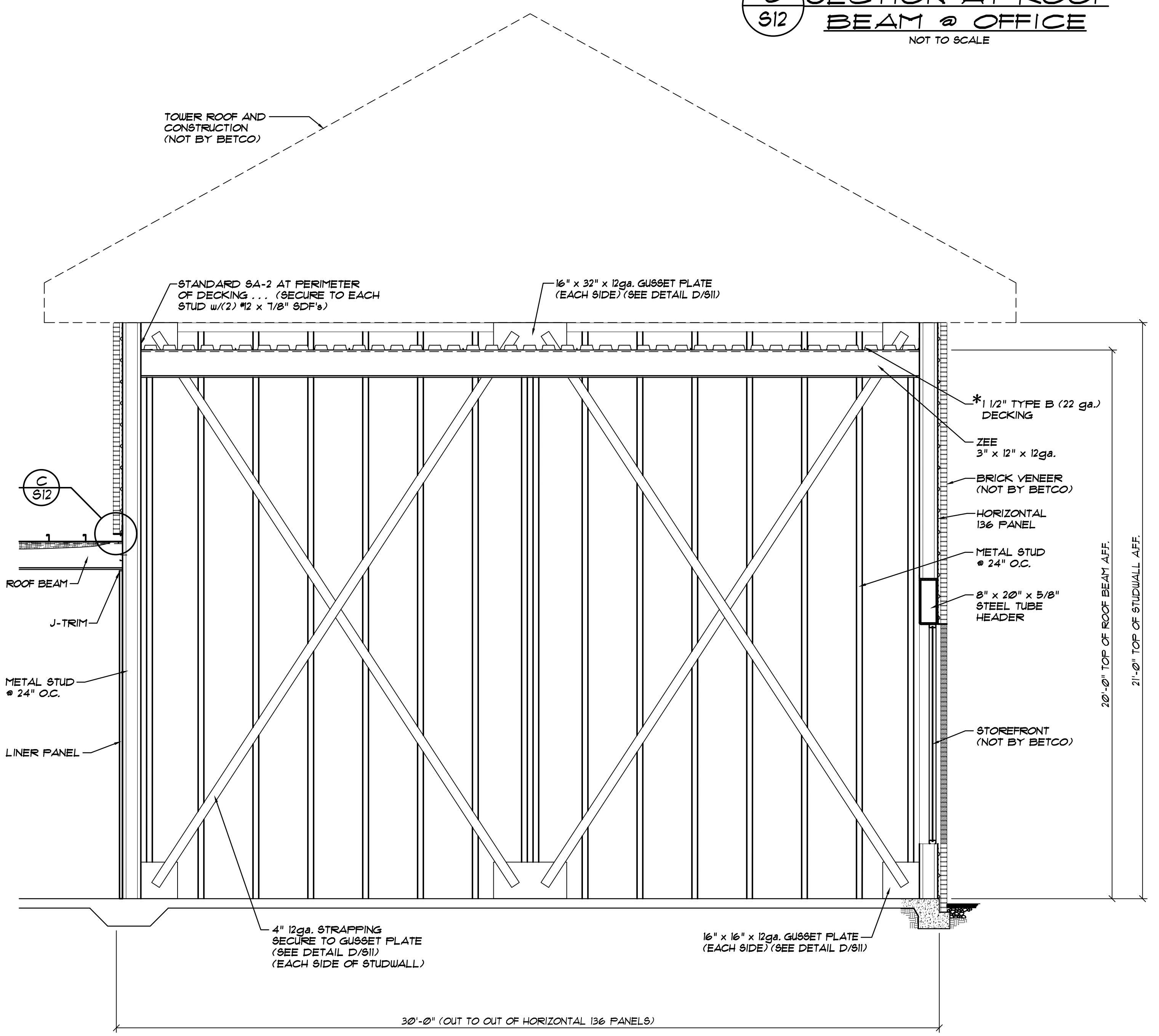
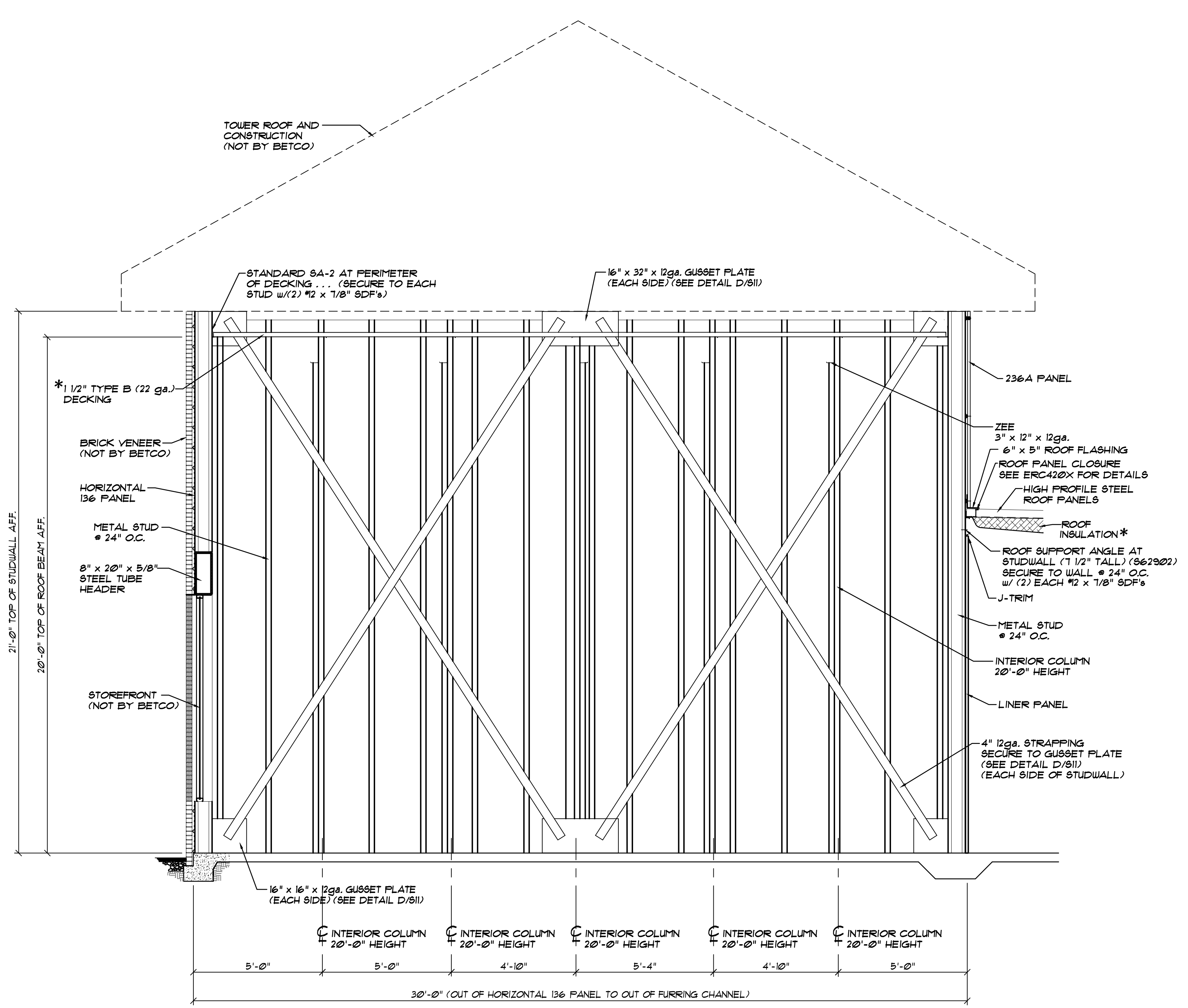
REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY: [Signature]
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800) 654-7813

PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: S11
OWNER: LAMPE MANAGEMENT COMPANY	
SHEET TITLE: BUILDING DETAILS BUILDING "A"	



NOTE:
 * = SECURE 1/2" TYPE B DECKING TO ZEE'S WITH 36/71 PATTERN WITH #2x1/8" SDF'S @ 6" O.C. INTO ROOF BEAMS AND #10 @ 12" O.C. STITCH SCREWS.



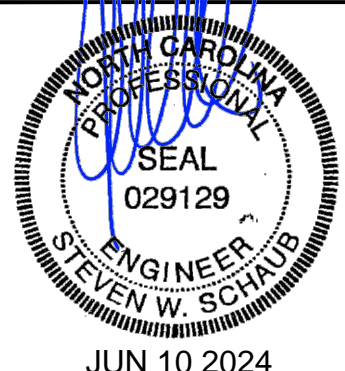
A 30'-0" WIDE CROSS SECTION @ OFFICE ... BUILDING "A"
 SCALE: 3/8" = 1'-0"

B 30'-0" WIDE CROSS SECTION @ OFFICE ... BUILDING "A"
 SCALE: 3/8" = 1'-0"

PREFABRICATED FIRE PROOF WOOD TRUSS
 PREFABRICATED FIRE PROOF WOOD TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER'S ENGINEER AND SUBMITTED FOR APPROVAL WITH A REGISTERED ENGINEER'S SEAL. DESIGN CRITERIA SHALL BE CLEARLY LABELED WITH RATED LOAD CAPACITY OF ALL TRUSS TO TRUSS CONNECTOR REACTIONS, SIZES OF ALL MEMBERS, DEAD, LIVE AND WIND LOADINGS WITH SPECIFIED SPACING.

NOTES:
 1. SEE FLOOR PLAN FOR LOCATION OF LOAD BEARING WALLS THAT SUPPORT WOOD TRUSSES SPACED AT 2'-0" O.C. MAX.
 2. SEE TRUSS MANUFACTURER DRAWINGS FOR ROOF FRAMING PLAN OF WOOD TRUSS AND ROOF DECKING.
 3. SEE TRUSS MANUFACTURER FOR PRE-ENGINEERED WOOD TRUSSES AND TRUSS BLOCKING, BRIDGING, REQUIRED FOR STRUCTURAL STABILITY, AS WELL AS BENT METAL REQUIRED FOR DECK EDGE ATTACHMENT AT EAVES, HIPS, AND ROOF PERIMETER.

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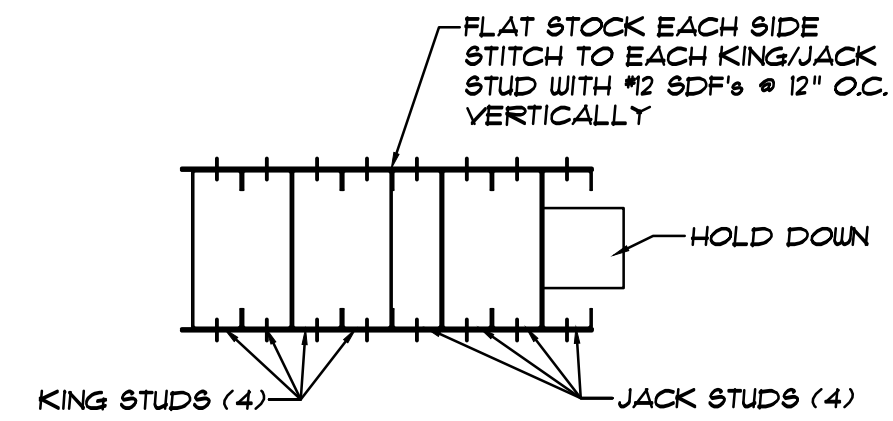


REVISIONS	DATE	BY

DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY: [Signature]

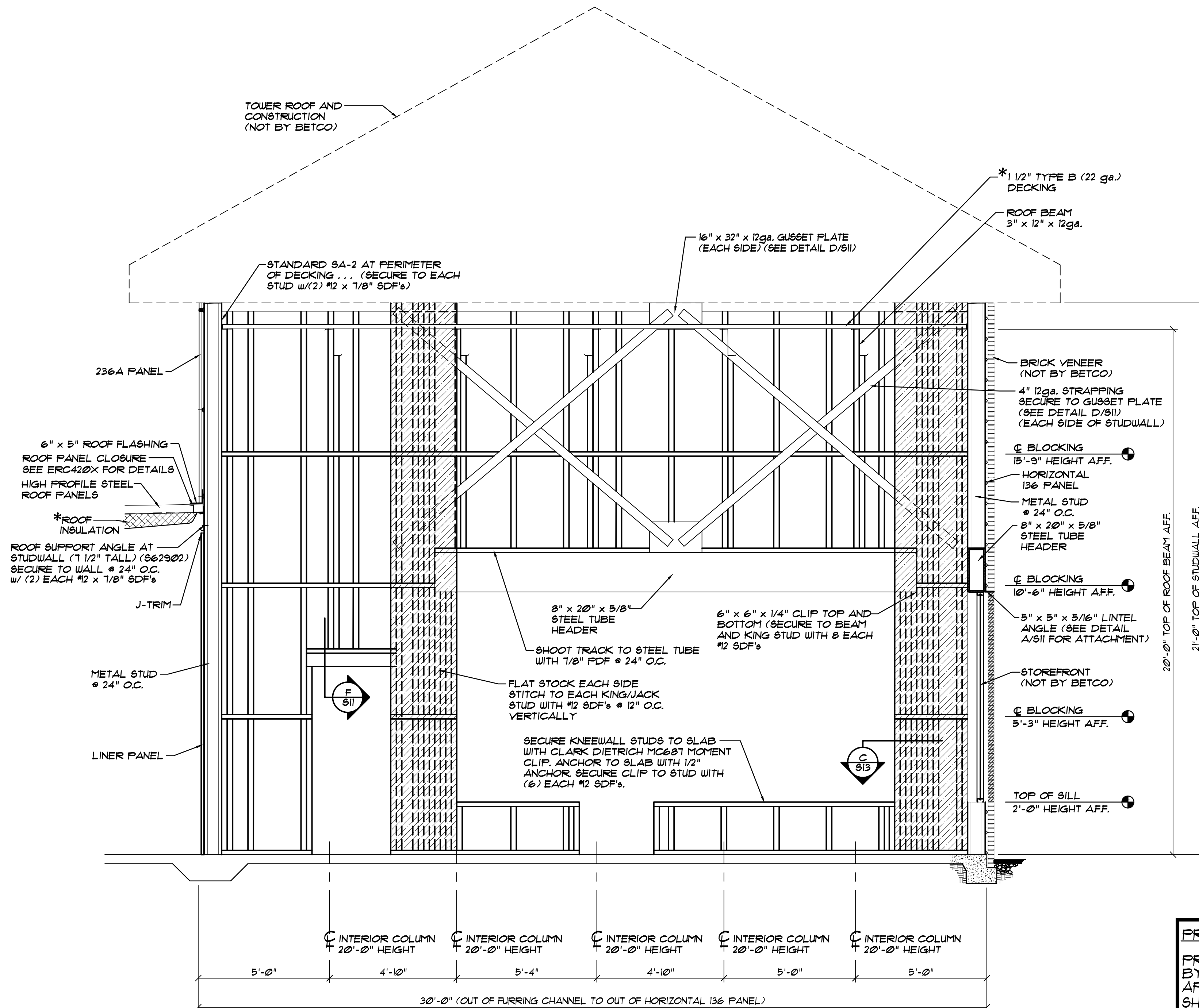
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PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: S12
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: SECTIONS, DETAIL & NOTES BUILDING "A"

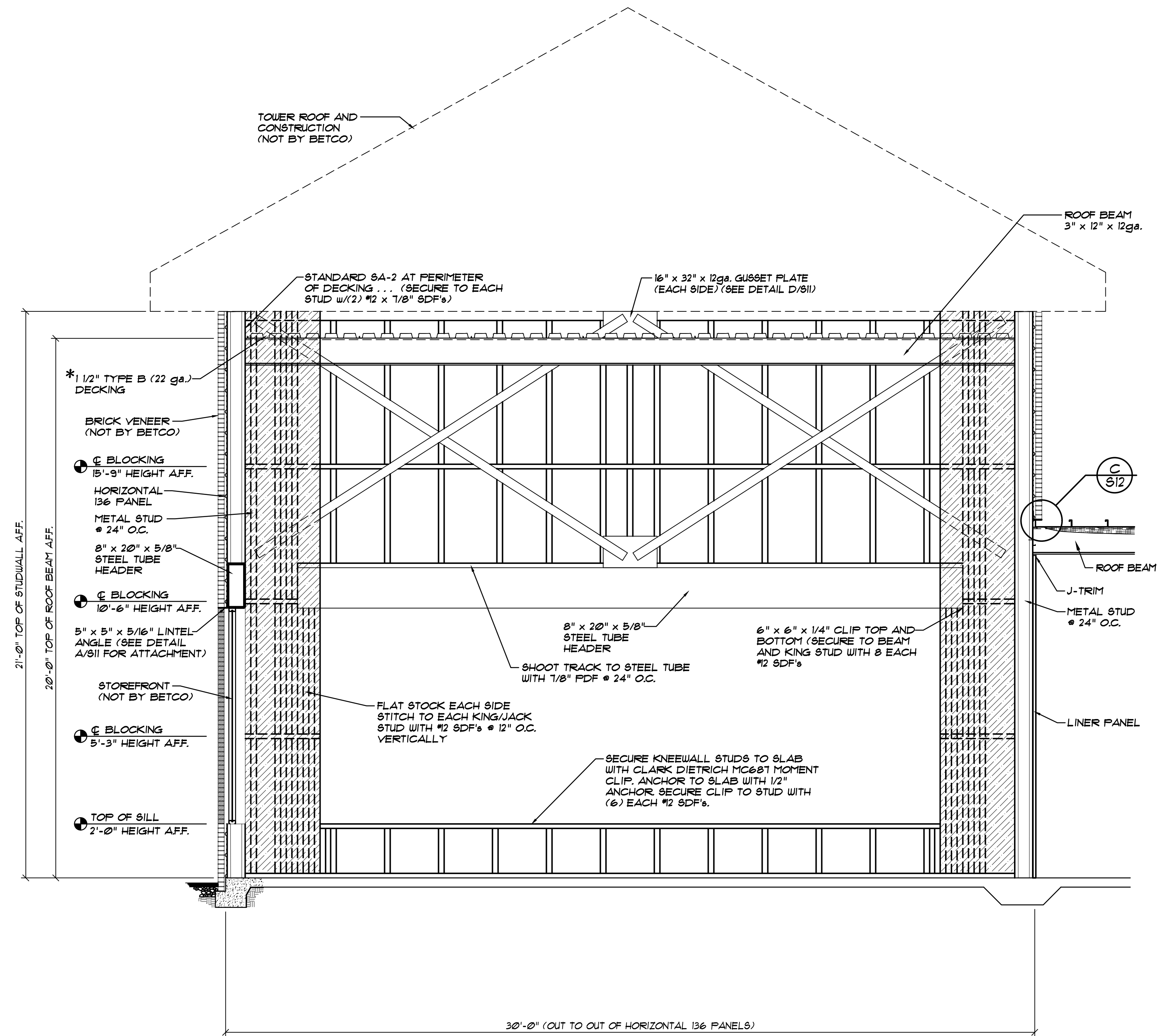


C STUD DETAIL
S13 NOT TO SCALE

NOTE:
* SECURE 1 1/2" TYPE B DECKING TO ZEES WITH 36/1 PATTERN WITH #12 SDFs @ 12" O.C. INTO ROOF BEAMS AND #10 @ 12" O.C. STITCH SCREWS.



B FRAMING ELEVATION @ OFFICE... BUILDING "A"
S13 SCALE: 3/8" = 1'-0"

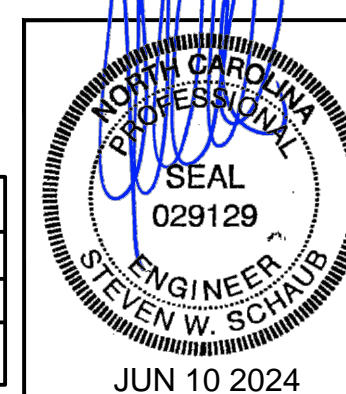


A FRAMING ELEVATION @ OFFICE... BUILDING "A"
S13 SCALE: 3/8" = 1'-0"

PREFABRICATED FIRE PROOF WOOD TRUSS
PREFABRICATED FIRE PROOF WOOD TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER'S ENGINEER AND SUBMITTED FOR APPROVAL WITH A REGISTERED ENGINEER'S SEAL. DESIGN CRITERIA SHALL BE CLEARLY LABELED WITH RATED LOAD CAPACITY OF ALL TRUSS TO TRUSS CONNECTOR, REACTIONS, SIZES OF ALL MEMBERS, DEAD, LIVE AND WIND LOADINGS WITH SPECIFIED SPACING.

- NOTES:**
- SEE FLOOR PLAN FOR LOCATION OF LOAD BEARING WALLS THAT SUPPORT WOOD TRUSSES SPACED AT 2'-0" O.C. MAX.
 - SEE TRUSS MANUFACTURER DRAWINGS FOR ROOF FRAMING PLAN OF WOOD TRUSS AND ROOF DECKING.
 - SEE TRUSS MANUFACTURER FOR PRE-ENGINEERED WOOD TRUSSES AND TRUSS BLOCKING, BRIDGING, REQUIRED FOR STRUCTURAL STABILITY, AS WELL AS BENT METAL REQUIRED FOR DECK EDGE ATTACHMENT AT EAVES, HIPs, AND ROOF PERIMETER.

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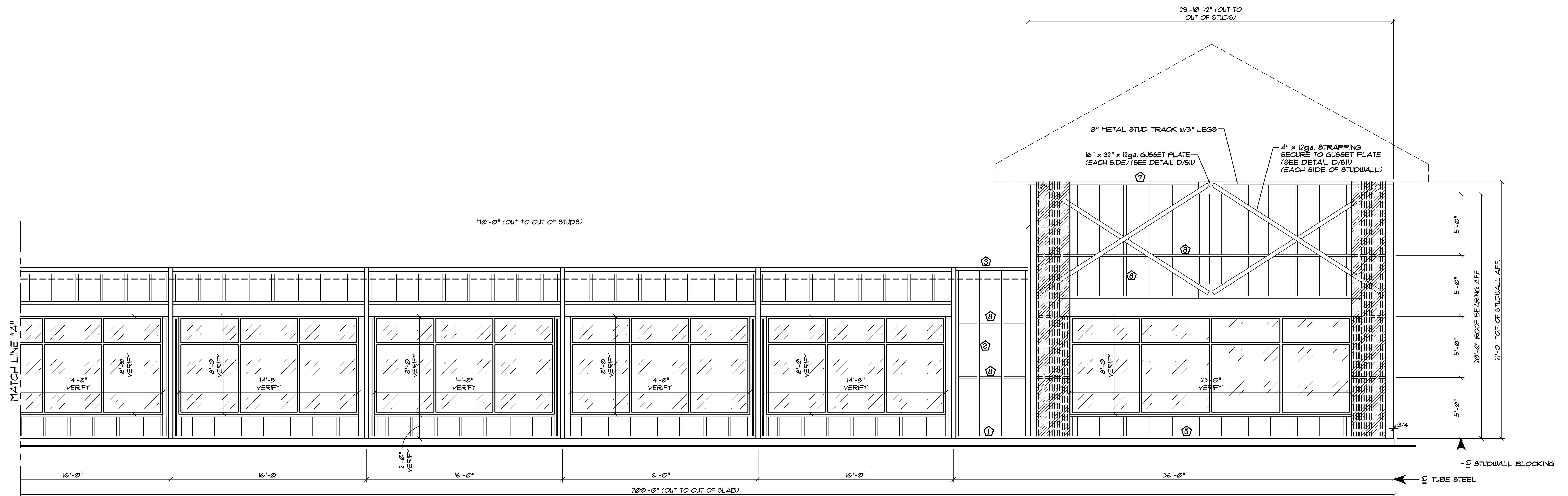
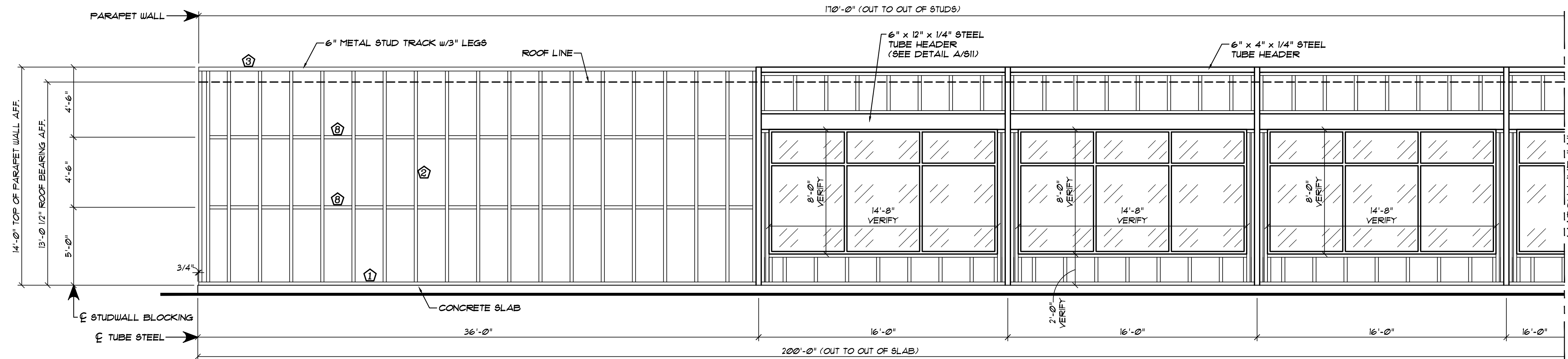


REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

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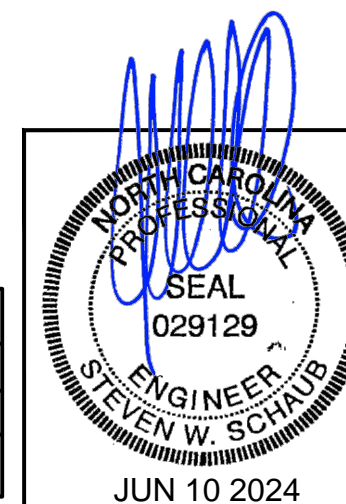
PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: S13
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: SECTIONS, DETAIL & NOTES BUILDING "A"



A FRAMING ELEVATION SIDEWALL ... BUILDING "A"
 S14 SCALE: 1/4" = 1'-0"

- LEGEND:**
- ① 6" x 12ga. STUD TRACK ANCHOR EACH WITH (4) EACH - 3/8" x 3" KB-T22 ANCHORS @ 30" O.C.
 - ② 1 EACH - METAL STUD (6" x 2" FLANGE x 14ga.)
 - ③ TOP TRACK 6" x 3" DEEP x 12ga. - FASTEN TO EACH STUD WITH 2 EACH #12 x 1/8" SDFs PER FLANGE
 - ④ 2 EACH - METAL STUD AT EACH ROOF BEAM LOCATION - SIMILAR TO C/60IX
 - ⑤ 8" x 12ga. STUD TRACK ANCHOR EACH WITH 4 EACH - 3/8" x 3" WEDGE (2" EMBEDMENT)
 - ⑥ 1 EACH - METAL STUD (8" x 2 1/2" x 14ga.)
 - ⑦ TOP TRACK 8" x 3" DEEP x 14ga. - FASTEN TO EACH STUD WITH 2 EACH #12 x 1/8" SDFs PER FLANGE
 - ⑧ STRAP BRACING FOR BLOCKING (SEE DETAIL "A" ON ERC63IX)

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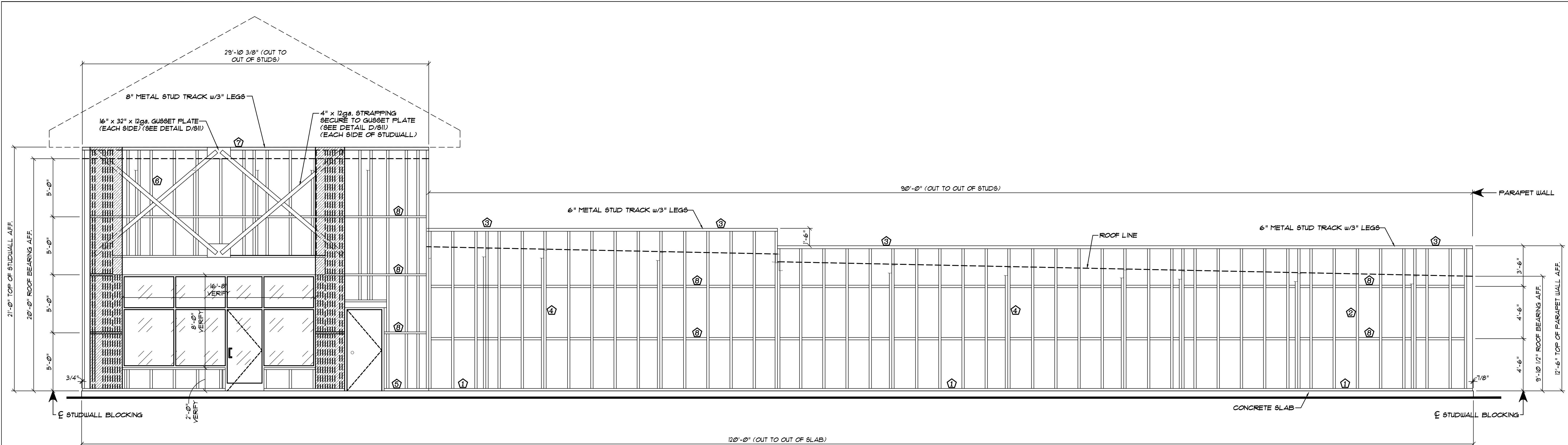


REVISIONS	DATE	BY

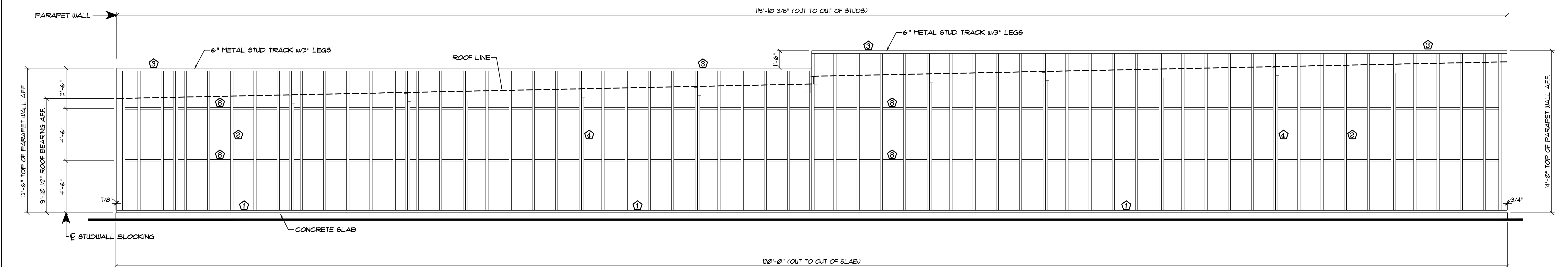
DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY:

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PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: S14
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: FRAMING ELEVATION & NOTES BUILDING "A"



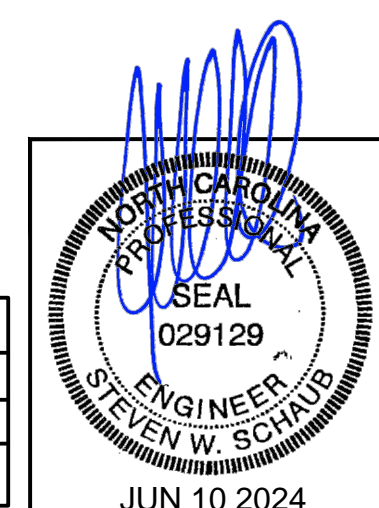
A FRAMING ELEVATION ENDWALL . . . BUILDING "A"
 S15 SCALE: 1/4" = 1'-0"



B FRAMING ELEVATION ENDWALL . . . BUILDING "A"
 S15 SCALE: 1/4" = 1'-0"

- LEGEND:**
- ① 6" x 12ga. STUD TRACK ANCHOR EACH WITH (4) EACH - 3/8" x 3" KB-T22 ANCHORS @ 30" O.C.
 - ② 1 EACH - METAL STUD (6" x 2" FLANGE x 14ga.)
 - ③ TOP TRACK 6" x 3" DEEP x 12ga. - FASTEN TO EACH STUD WITH 2 EACH #12 x 1/8" SDF's PER FLANGE
 - ④ 2 EACH - METAL STUD AT EACH ROOF BEAM LOCATION - SIMILAR TO C/6@IX
 - ⑤ 8" x 12ga. STUD TRACK ANCHOR EACH WITH 4 EACH - 3/8" x 3" WEDGE (2" EMBEDMENT)
 - ⑥ 1 EACH - METAL STUD (8" x 2 1/2" x 14ga.)
 - ⑦ TOP TRACK 8" x 3" DEEP x 14ga. - FASTEN TO EACH STUD WITH 2 EACH #12 x 1/8" SDF's PER FLANGE
 - ⑧ STRAP BRACING FOR BLOCKING (SEE DETAIL "A" ON ERC631X)

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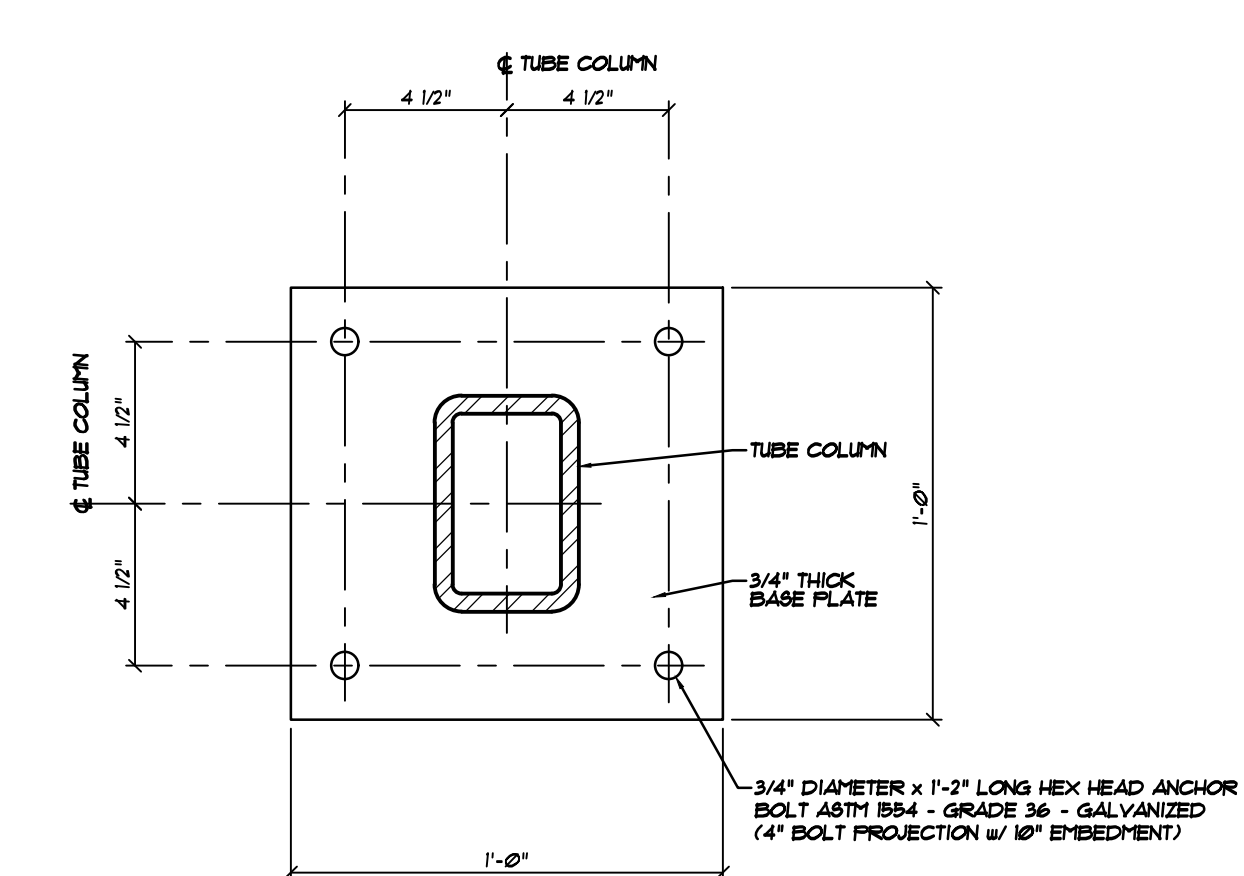
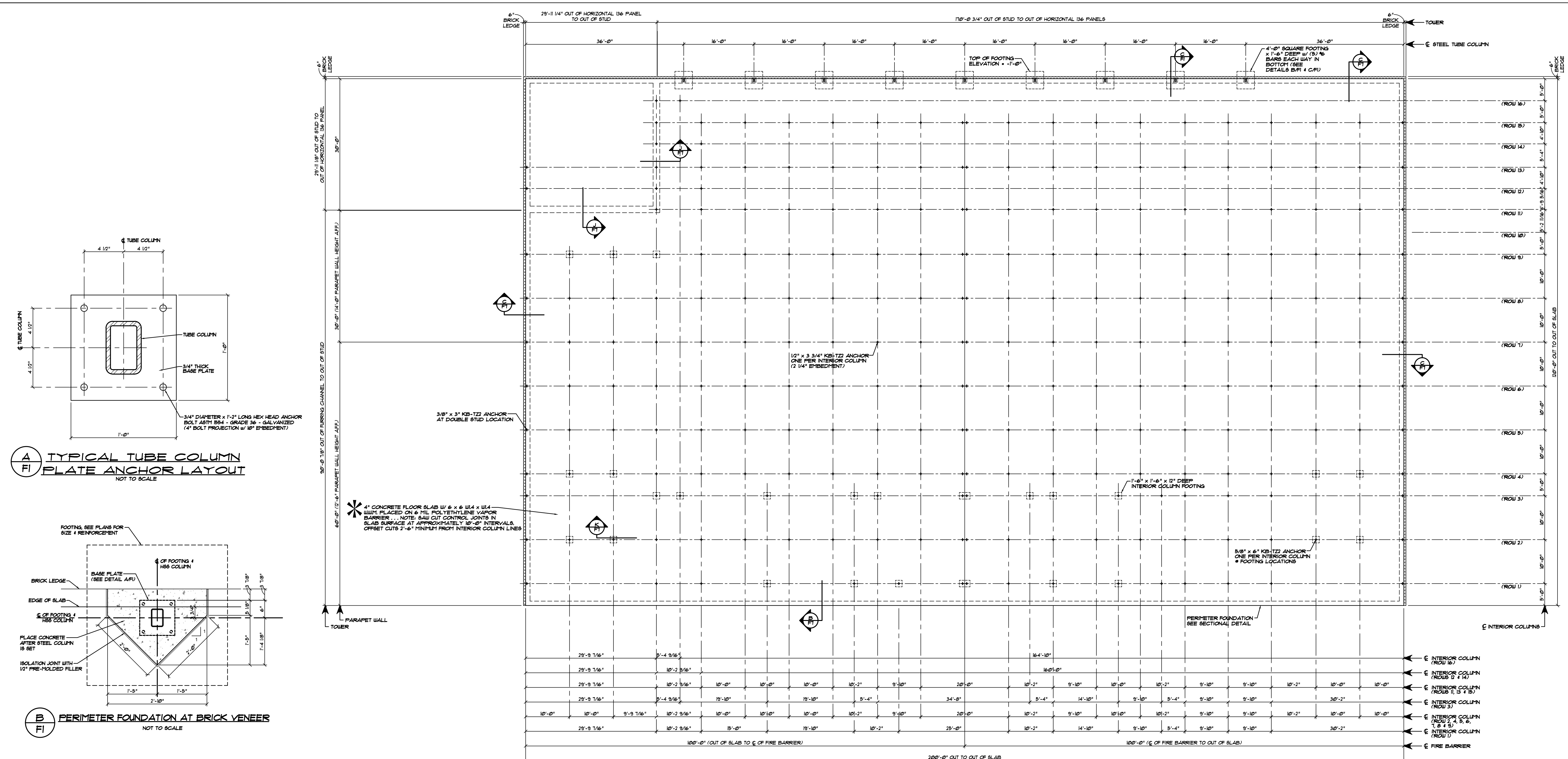


REVISIONS	DATE	BY

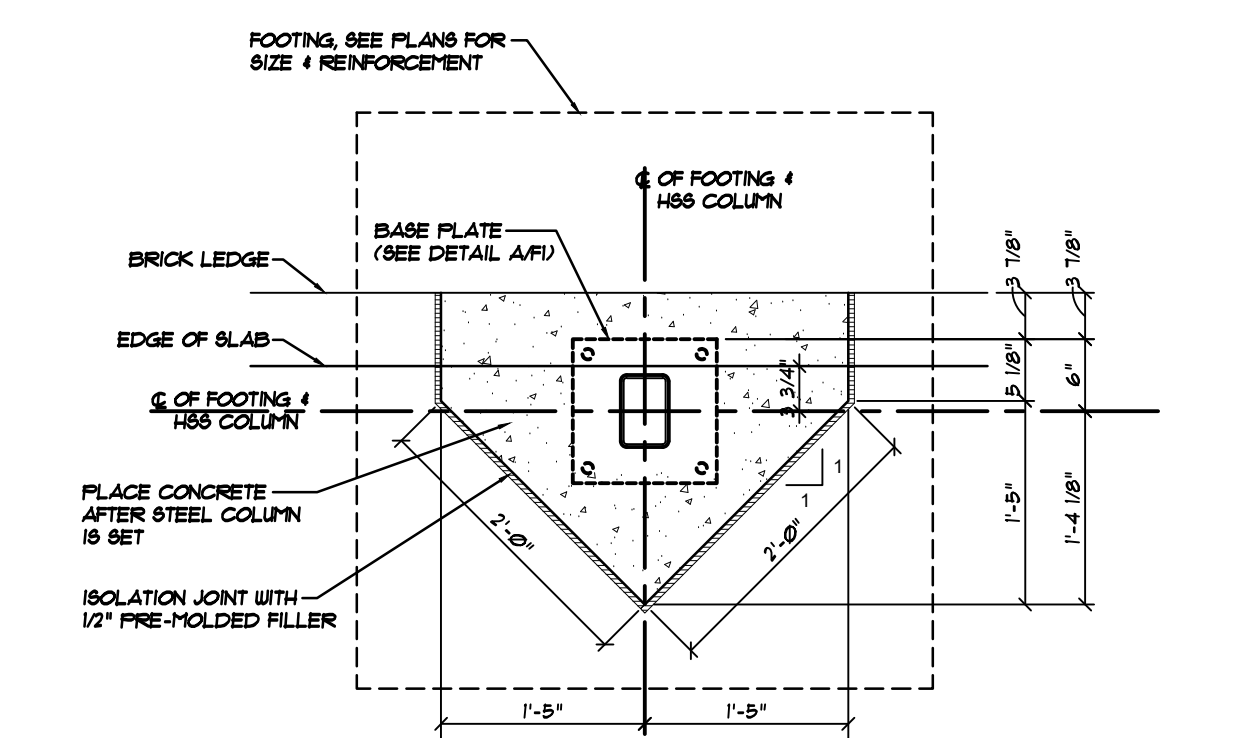
DATE: 1/19/24
 DRAWN BY: J. HARE
 SCALE: AS NOTED
 APPROVED BY:

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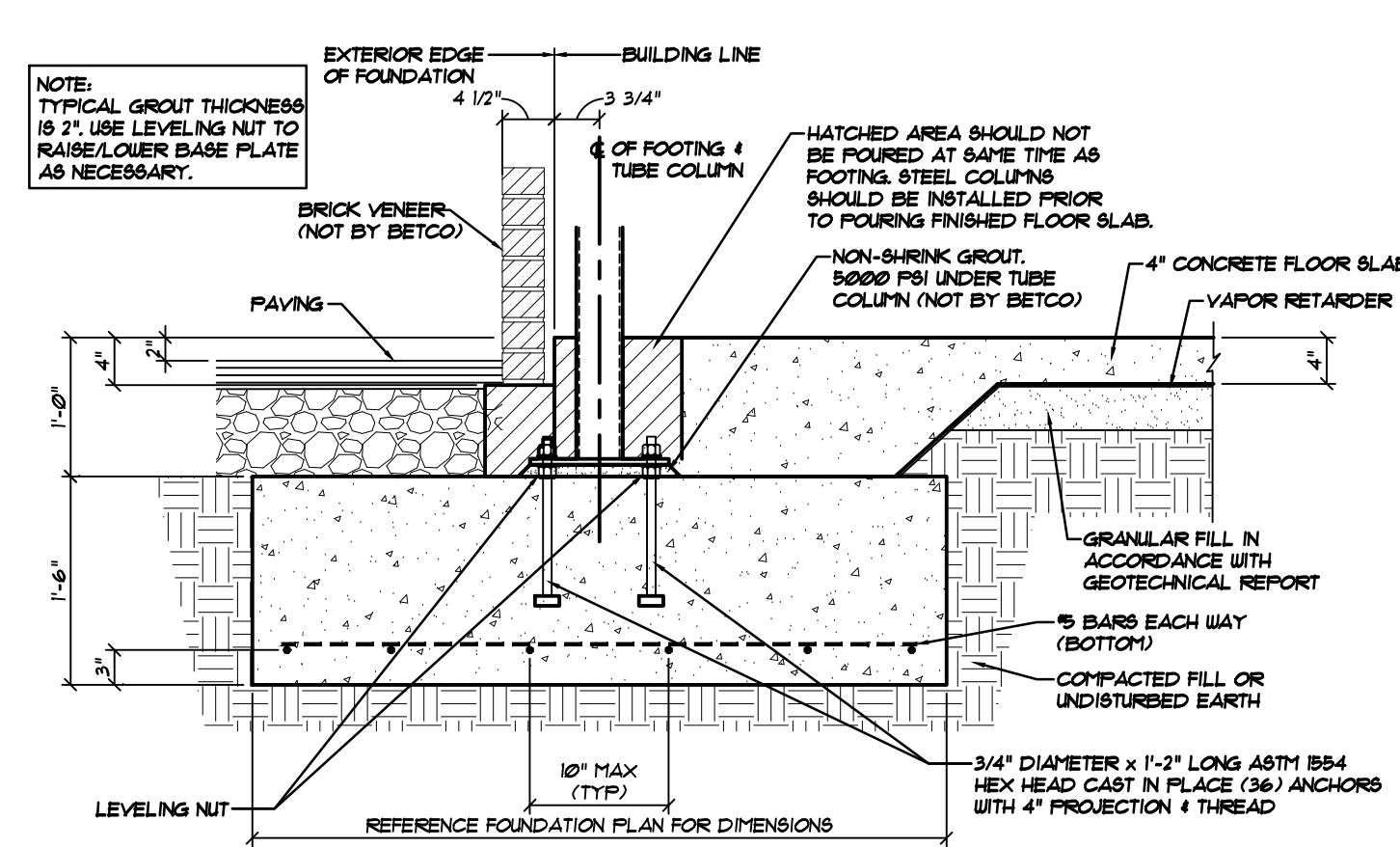
PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	OWNER: LAMPE MANAGEMENT COMPANY
SHEET TITLE: FRAMING ELEVATIONS & NOTES BUILDING "A"	DRAWING NUMBER: S15



A TYPICAL TUBE COLUMN
FI PLATE ANCHOR LAYOUT
NOT TO SCALE



B PERIMETER FOUNDATION AT BRICK VENEER
FI NOT TO SCALE



C PERIMETER FOUNDATION AT BRICK VENEER
FI NOT TO SCALE

FOUNDATION PLAN... BUILDING "A"
SCALE: 3/32" = 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	FO	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	
S SULFATE	NOT APPLICABLE	SO	WATER-SOLUBLE SULFATE (SO ₄) IN SOIL, PERCENT BY WEIGHT	DISSOLVED SULFATE (SO ₄) IN WATER, ppm
			SO ₄ < 0.10	SO ₄ < 150
W REQUIRING LOW PERMEABILITY	NOT APPLICABLE	WO	CONCRETE DRY IN SERVICE, CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	
C CORROSION PROTECTION OF REINFORCEMENT	MODERATE	CI	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.

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

NOTE: KB-TZZ 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.

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

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REVISIONS: _____ DATE: _____ BY: _____

* MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROFEX FIBERESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 125 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (1.8 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.

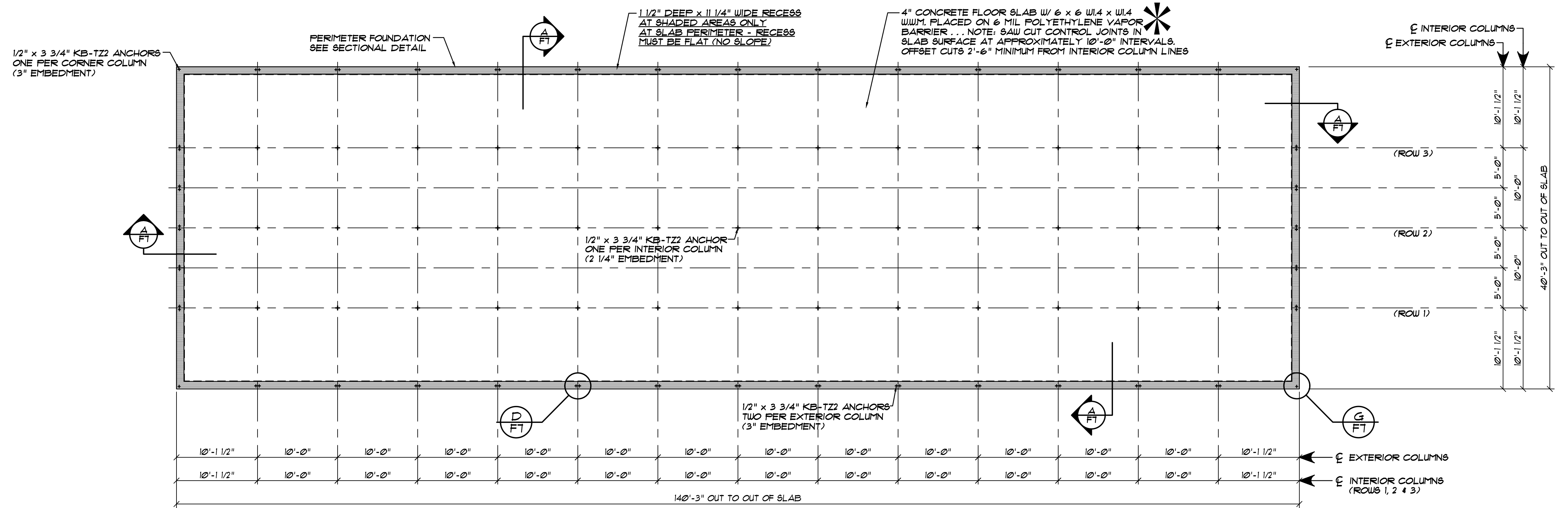
AMPLE STORAGE
ERWIN, NORTH CAROLINA

OWNER: LAMPE MANAGEMENT COMPANY
PROJECT NO.: NC23237

SHEET TITLE: FOUNDATION PLAN, DETAILS & NOTES - BUILDING "A"
DRAWING NUMBER: F1

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

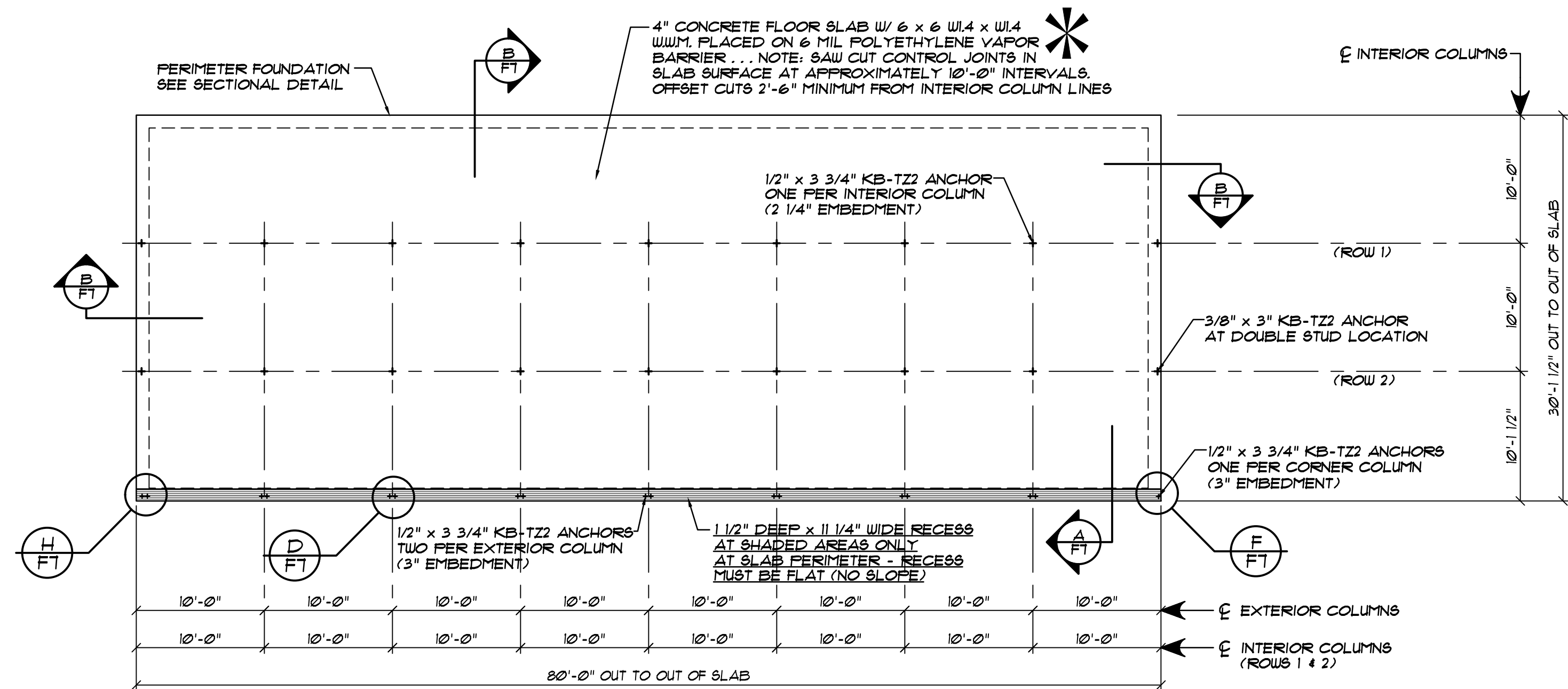
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(800) 654-7813



FOUNDATION PLAN . . . BUILDING "E"

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.



FOUNDATION PLAN . . . BUILDING "B"

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.

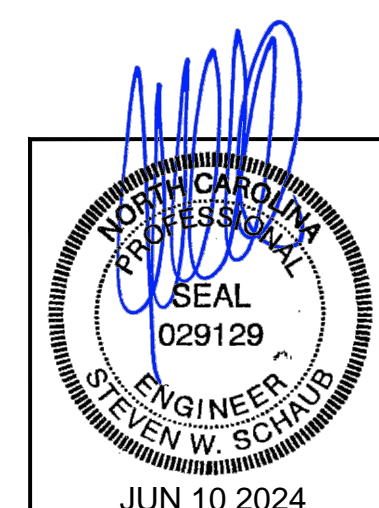
MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 125 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (1.8 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.

NOTE: KB-T22 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.

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

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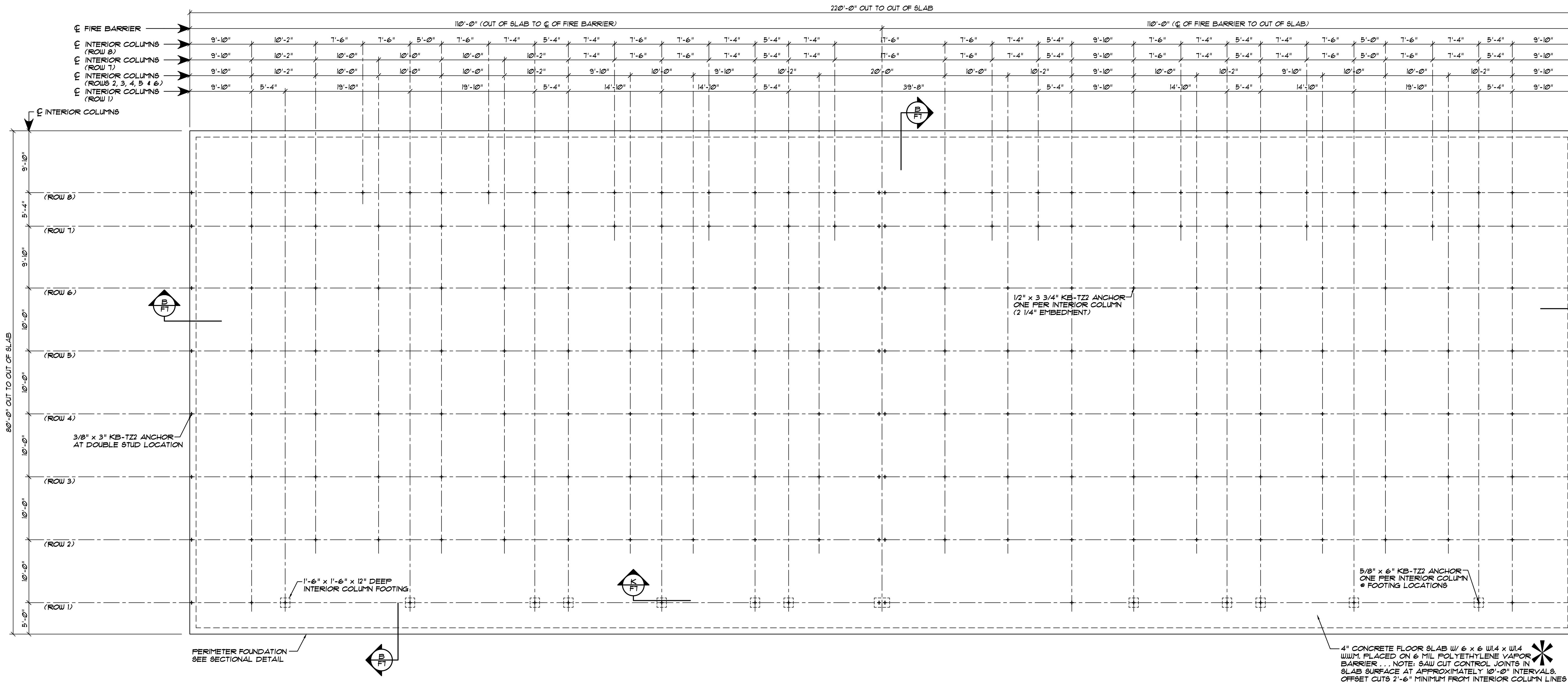


REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

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PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: F2
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: FOUNDATION PLANS & NOTES BUILDINGS "B" & "E"



FOUNDATION PLAN . . . BUILDING "D"

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.

NOTE:
KB-T22 ANCHORS ARE PROVIDED BY BETCO.
EMBEDDED ANCHOR BOLTS IN SLAB ARE
NOT REQUIRED BY BUYER.

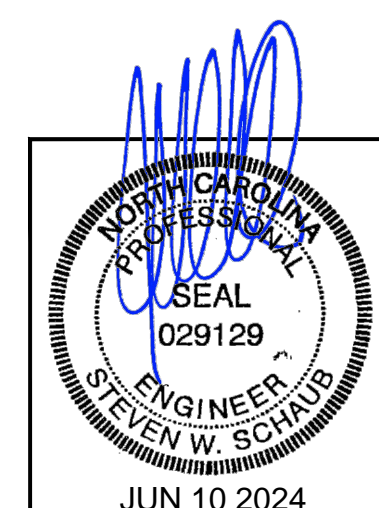
NOTE: . . . SEE OWNER FOR
BUILDING ORIENTATION ON SITE

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.

NOTE:
FIELD LOCATE KB-T22 ANCHORS AT
3 HOUR FIRE BARRIER

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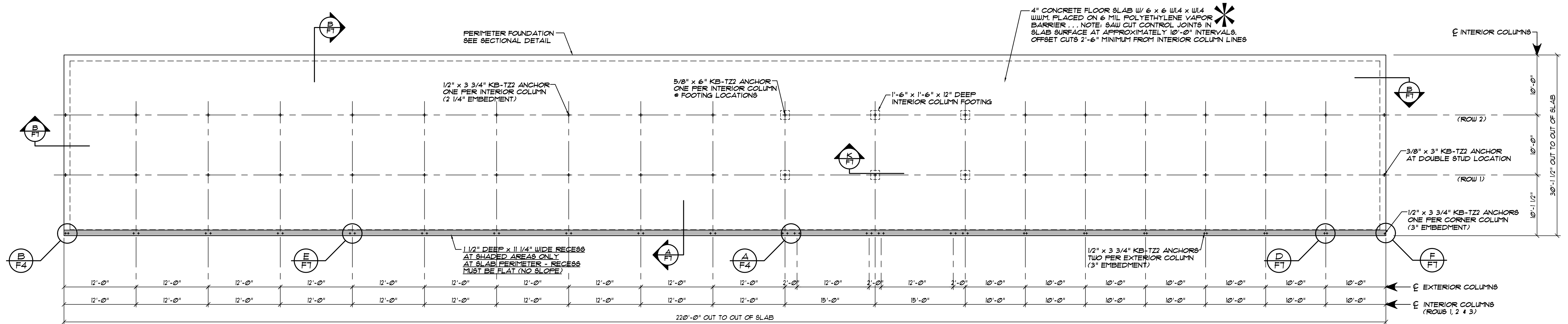
MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER
ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH
650 OR EQUIVALENT), MADE FROM VIRGIN
POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER
BETWEEN 0.4 MM (0.016 IN) AND 125 MM (0.05 IN),
HAVING A MINIMUM ASPECT RATIO
(LENGTH/EQUIVALENT DIAMETER) OF 50, AT A
MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (1.8
KG/CUBIC METER) MAY BE USED AS MINIMUM
TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN
LIEU OF WELDED WIRE FABRIC, FOR THE
CONSTRUCTION OF THE FOUNDATION ON THE ABOVE
REFERENCED PROJECT.



DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS	DATE BY

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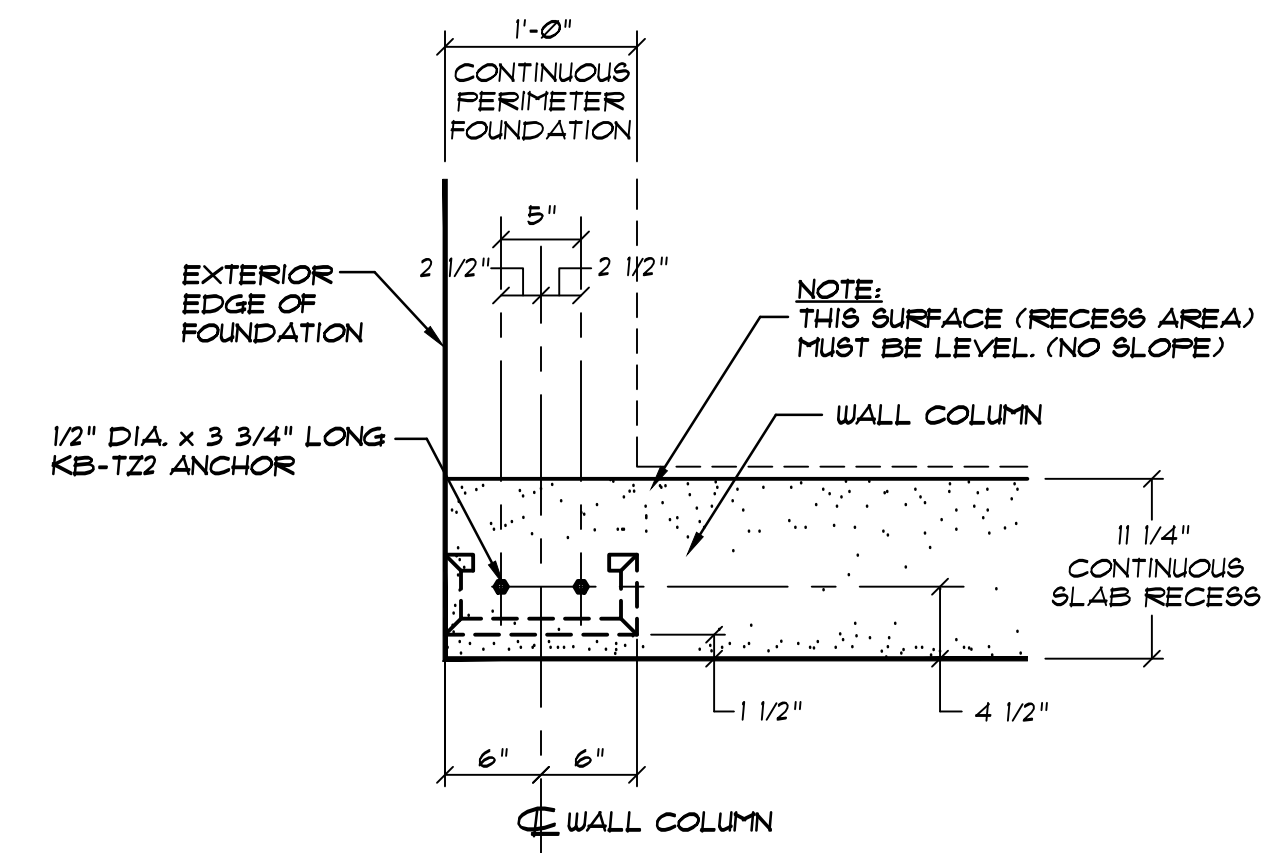
PROJECT NAME:	AMPLE STORAGE
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA
OWNER:	LAMPE MANAGEMENT COMPANY
SHEET TITLE:	FOUNDATION PLAN & NOTES BUILDING "D"
PROJECT NO.:	NC23237
DRAWING NUMBER:	F3



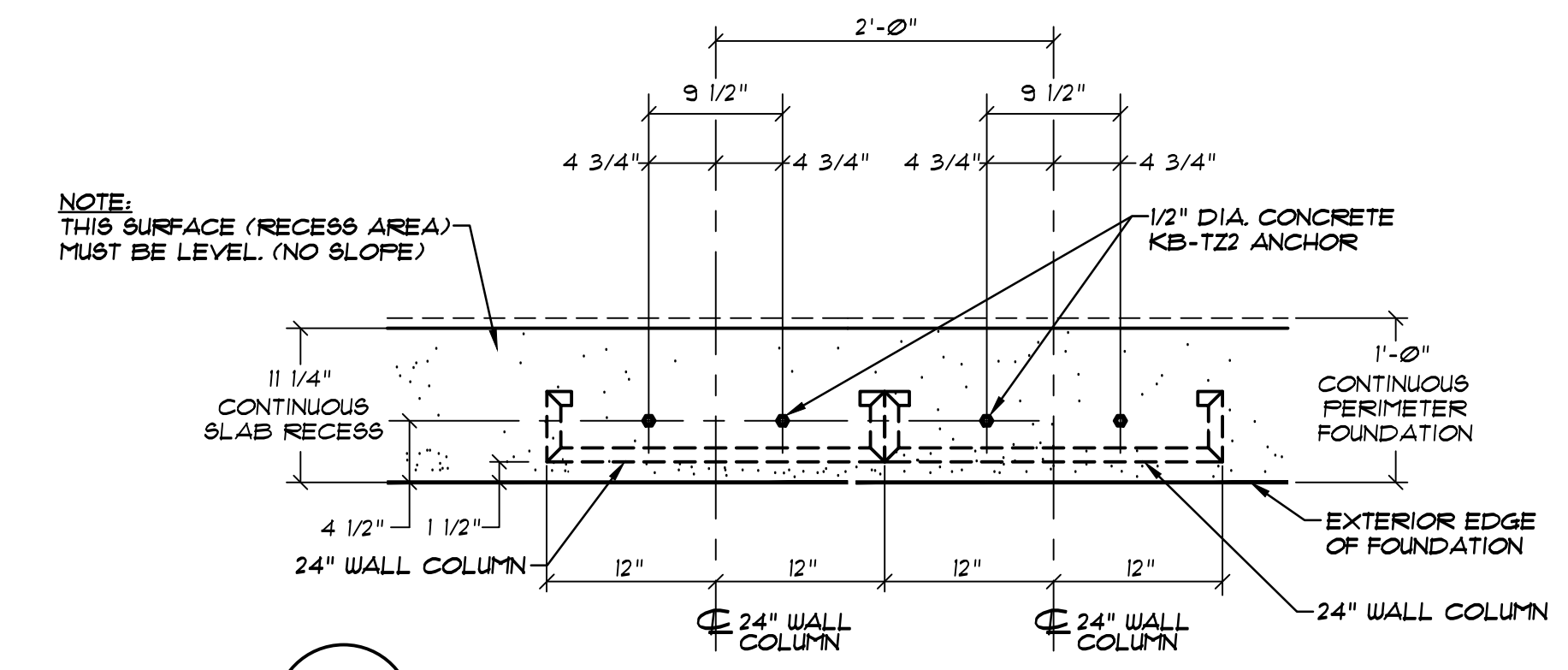
FOUNDATION PLAN . . . BUILDING "F"

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.



B
F4 WALL COLUMN ANCHORS AT CORNER
NOT TO SCALE



A
F4 DOUBLE WALL COLUMNS (24" & 24")
WEDGE ANCHORS
NOT TO SCALE

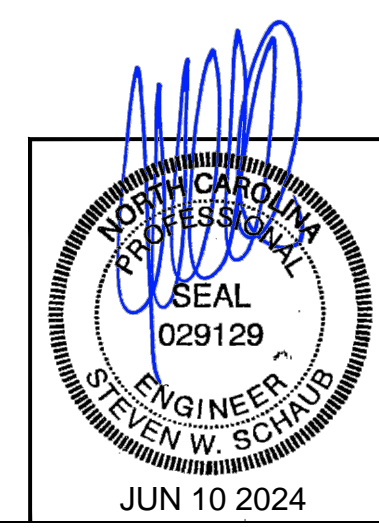
NOTE: KB-TZZ ANCHORS ARE PROVIDED BY BETCO. EMBEDDED ANCHOR BOLTS IN SLAB ARE NOT REQUIRED BY BUYER.

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

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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MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 1.25 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (18 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.

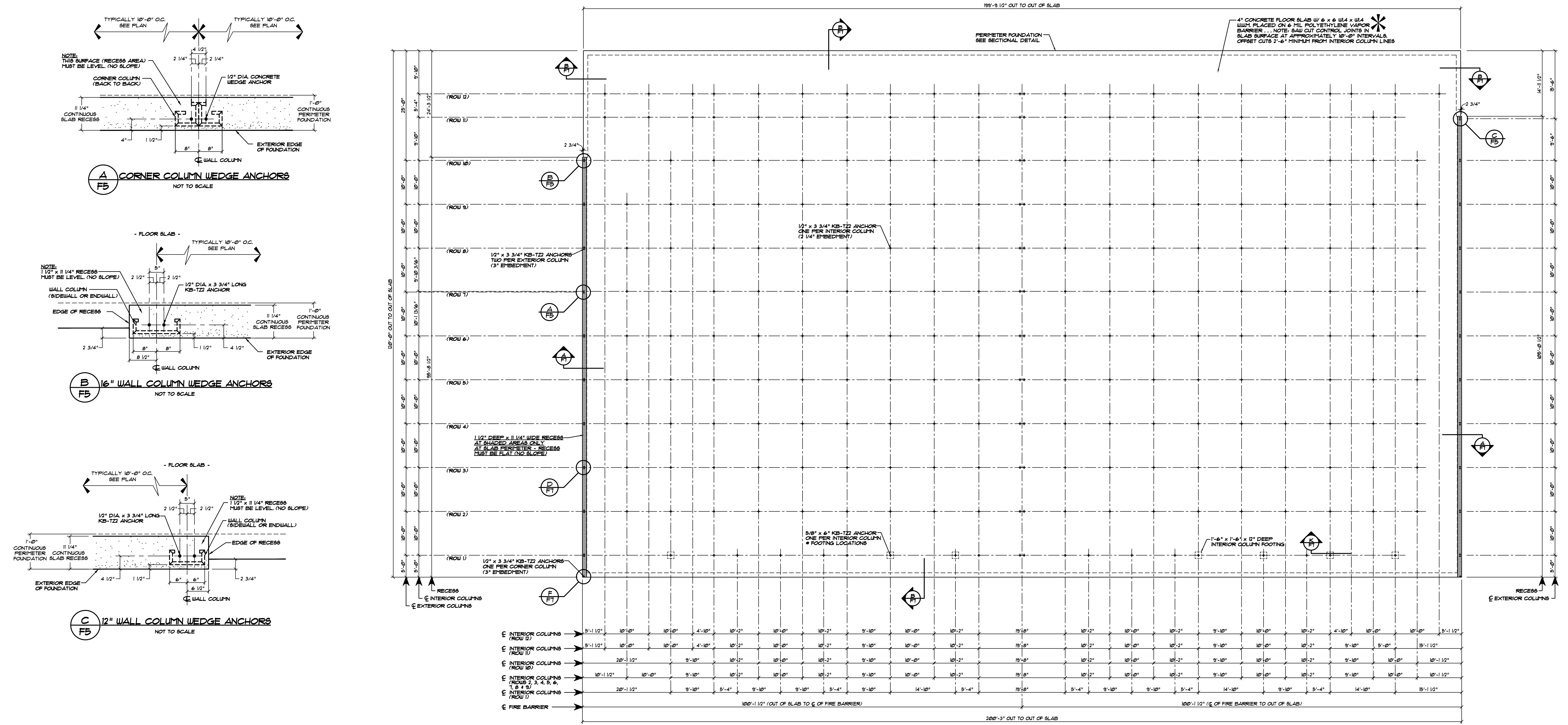


REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

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PROJECT NAME: AMPLE STORAGE	PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA	DRAWING NUMBER: F4
OWNER: LAMPE MANAGEMENT COMPANY	
SHEET TITLE: FOUNDATION PLAN, DETAILS & NOTES - BUILDING "F"	



FOUNDATION PLAN . . . BUILDING "G"

SCALE: 3/32" = 1'-0"

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

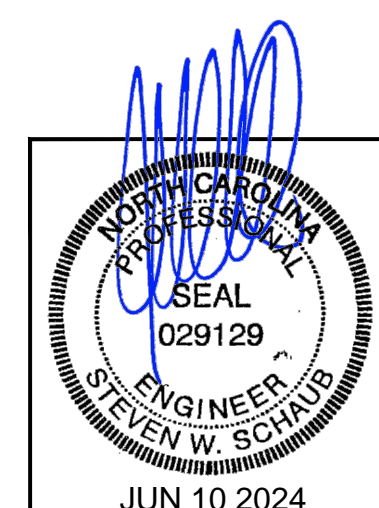
NOTE:
FIELD LOCATE KB-T22 ANCHORS AT 3 HOUR FIRE BARRIER.

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

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.

NOTE:
KB-T22 ANCHORS ARE PROVIDED BY BETCO. SPREEDER ANCHOR BOLTS IN SLAB ARE NOT REQUIRED BY BUTLER.
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*
MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 1.25 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (18 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.

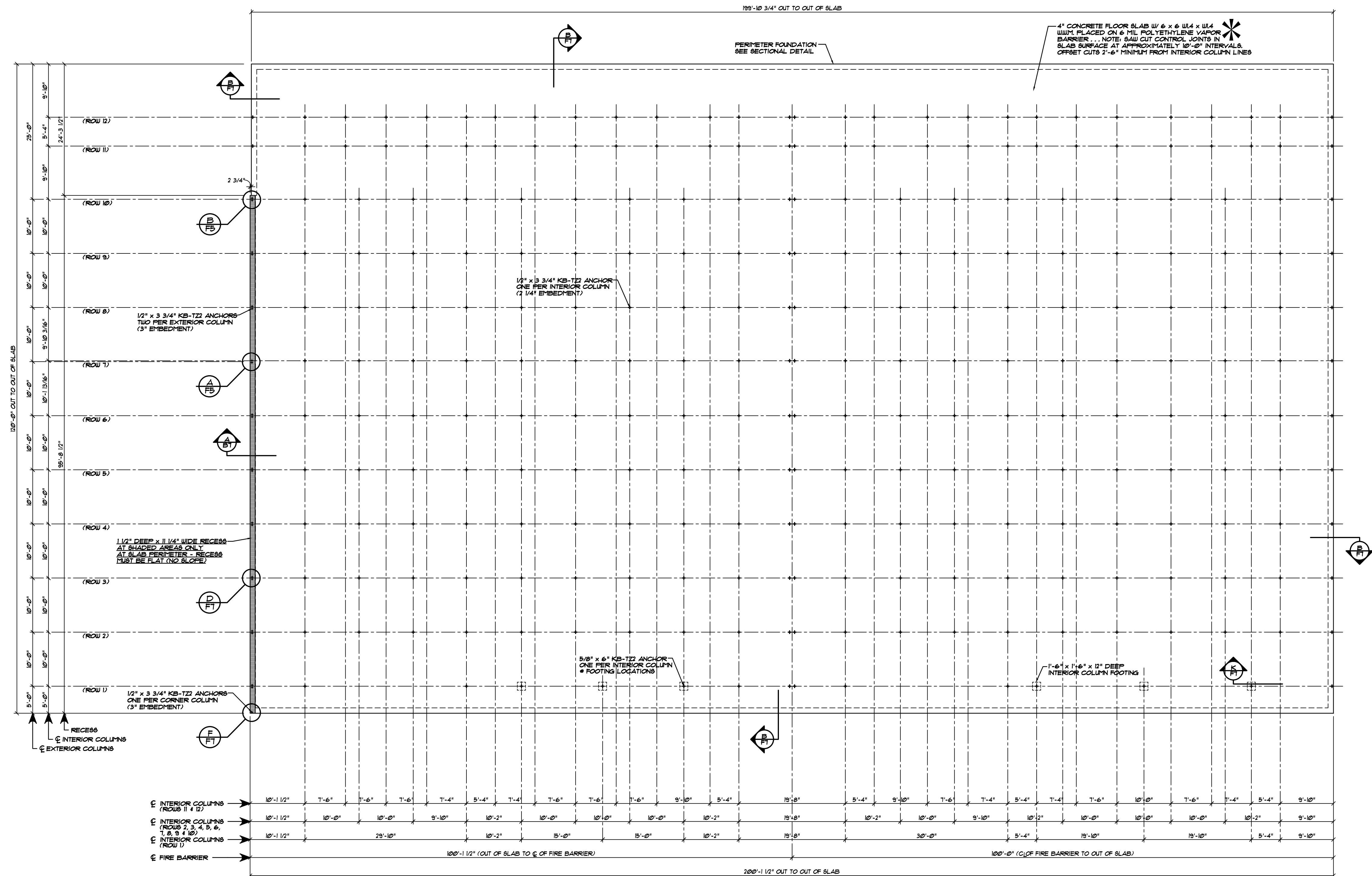


REVISIONS	DATE	BY

DATE: 1/19/24
DRAWN BY: J. HARE
SCALE: AS NOTED
APPROVED BY:

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PROJECT NAME: AMPLE STORAGE		PROJECT NO.: NC23237
PROJECT ADDRESS: ERWIN, NORTH CAROLINA		DRAWING NUMBER: F5
OWNER: LAMPE MANAGEMENT COMPANY	SHEET TITLE: FOUNDATION PLAN, DETAILS & NOTES - BUILDING "G"	



FOUNDATION PLAN . . . BUILDING "H"

SCALE: 3/32" = 1'-0"

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

NOTE:
FIELD LOCATE KB-T22 ANCHORS AT 3 HOUR FIRE BARRIER.

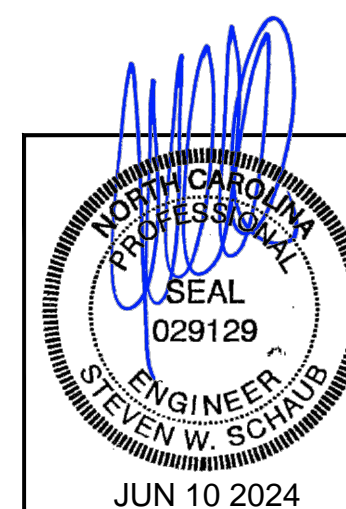
NOTE: . . . SEE OWNER FOR BUILDING ORIENTATION ON SITE

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.

NOTE:
KB-T22 ANCHORS ARE PROVIDED BY BETCO. EMBEDDED ANCHOR BOLTS IN SLAB ARE NOT REQUIRED BY BUTER.

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

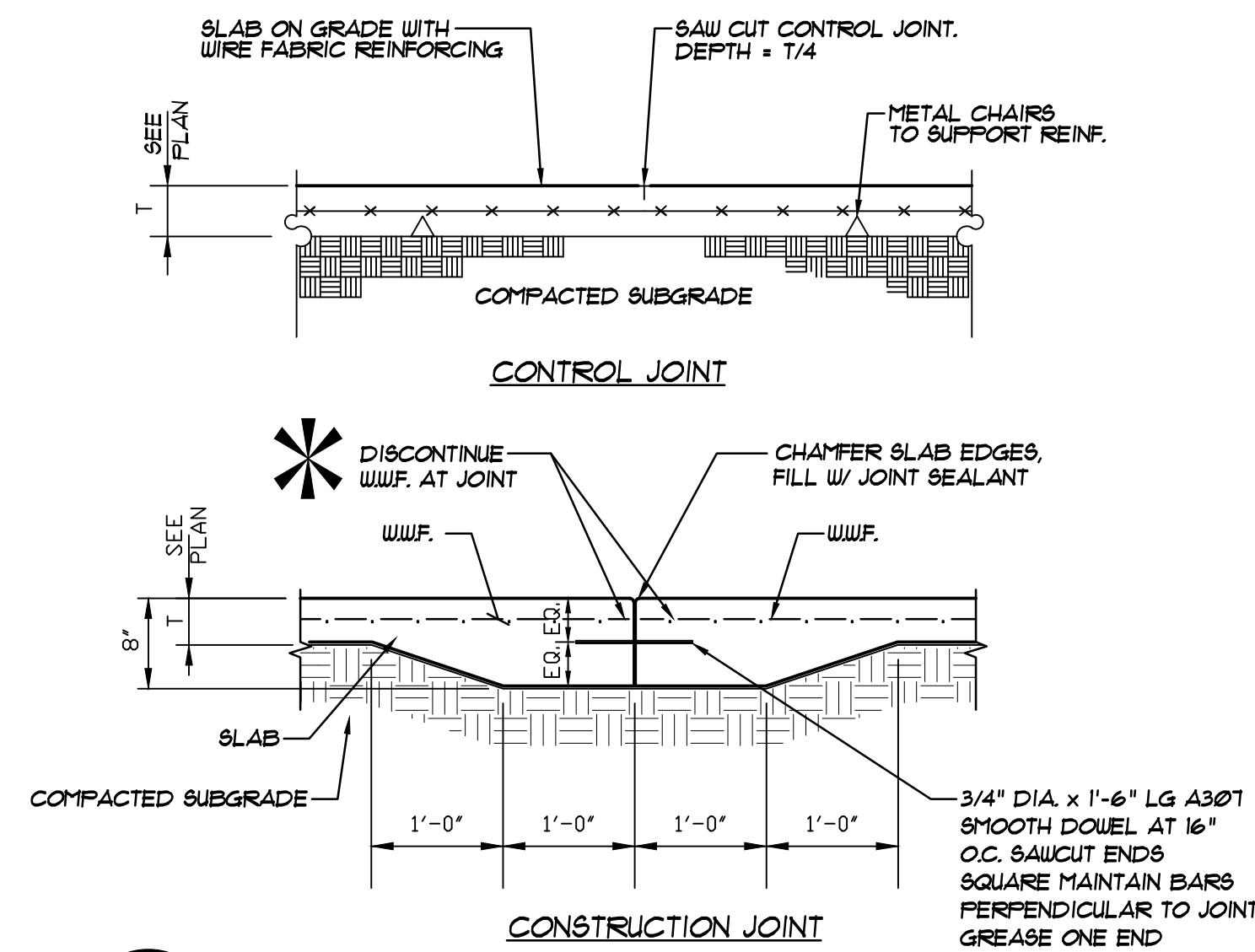
*
MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 125 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (18 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.



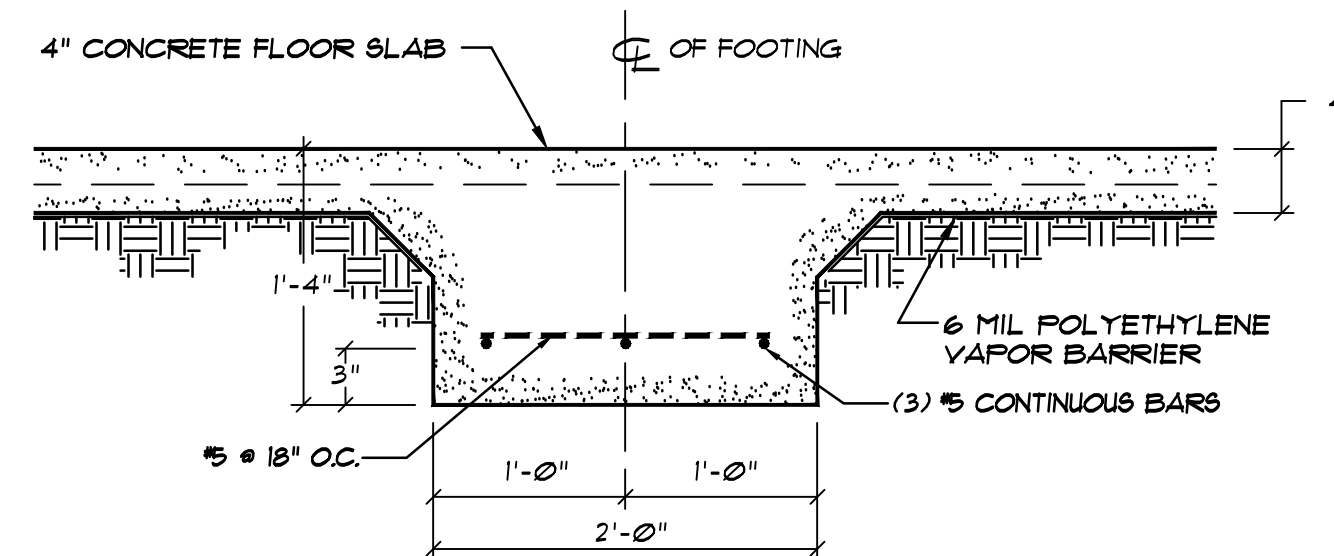
DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS	DATE BY

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

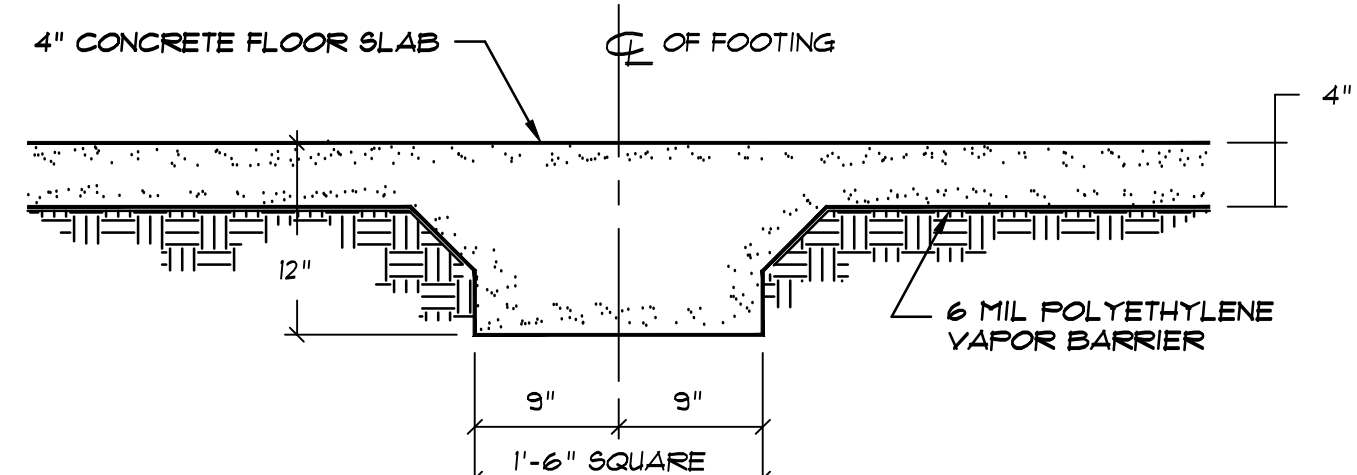
PROJECT NAME:	AMPLE STORAGE	
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA	
OWNER:	LAMPE MANAGEMENT COMPANY	PROJECT NO.: NC23237
SHEET TITLE:	FOUNDATION PLAN & NOTES BUILDING "H"	DRAWING NUMBER: F6



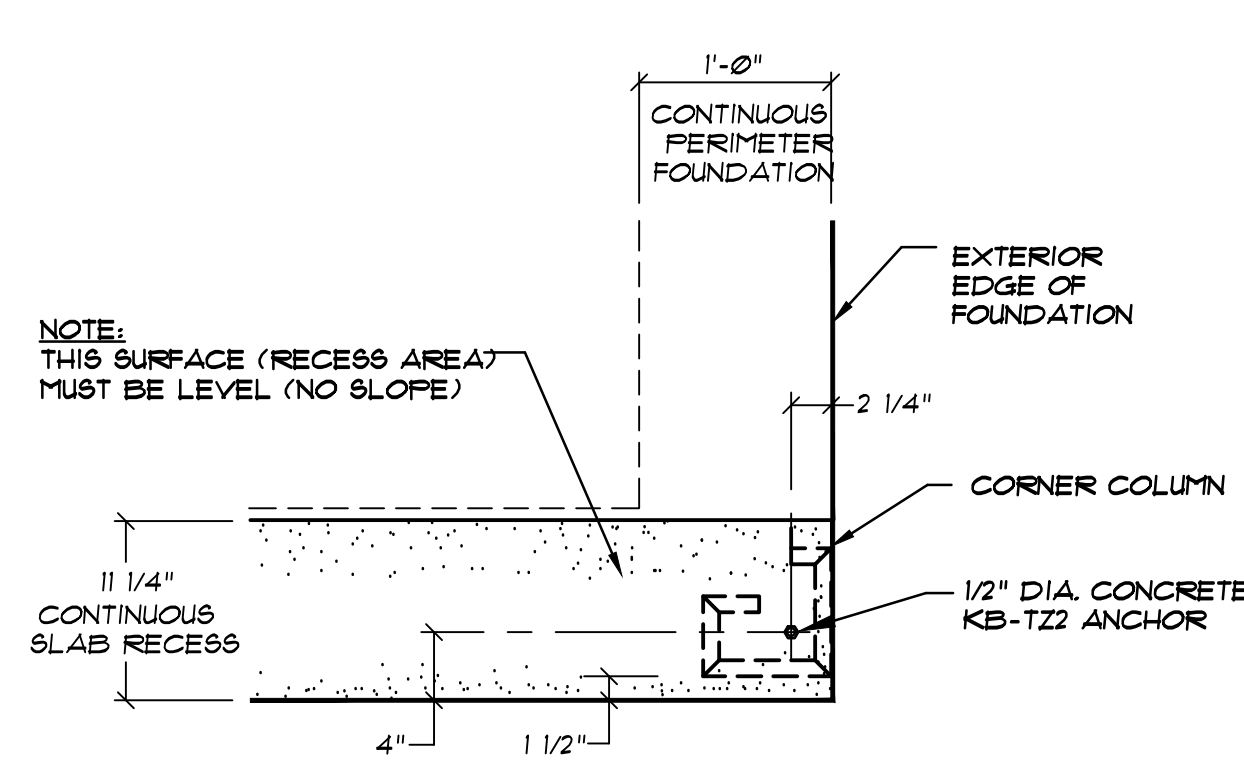
I
F7
CONTROL JOINT & CONSTRUCTION JOINT IN CONCRETE SLAB
NOT TO SCALE



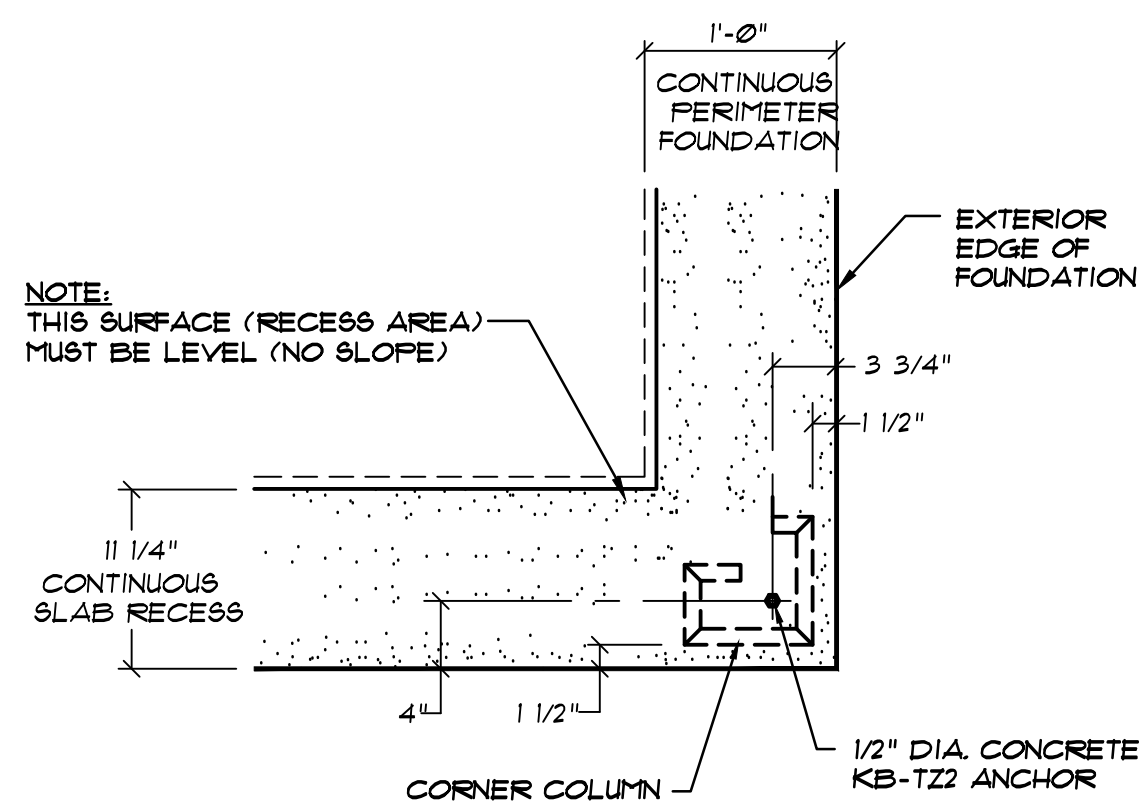
J
F7
SECTION @ CONTINUOUS INTERIOR FOOTING
NOT TO SCALE



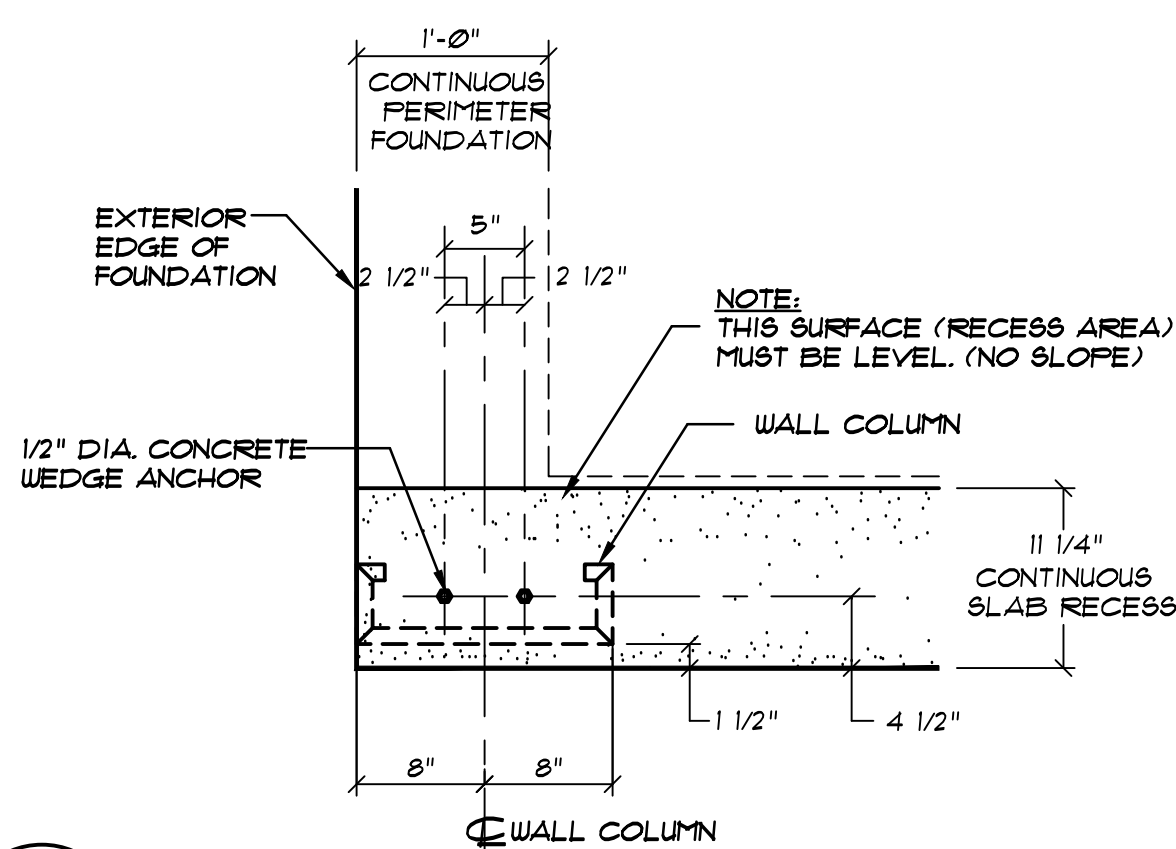
K
F7
TYPICAL INTERIOR FOOTING SECTION
NOT TO SCALE



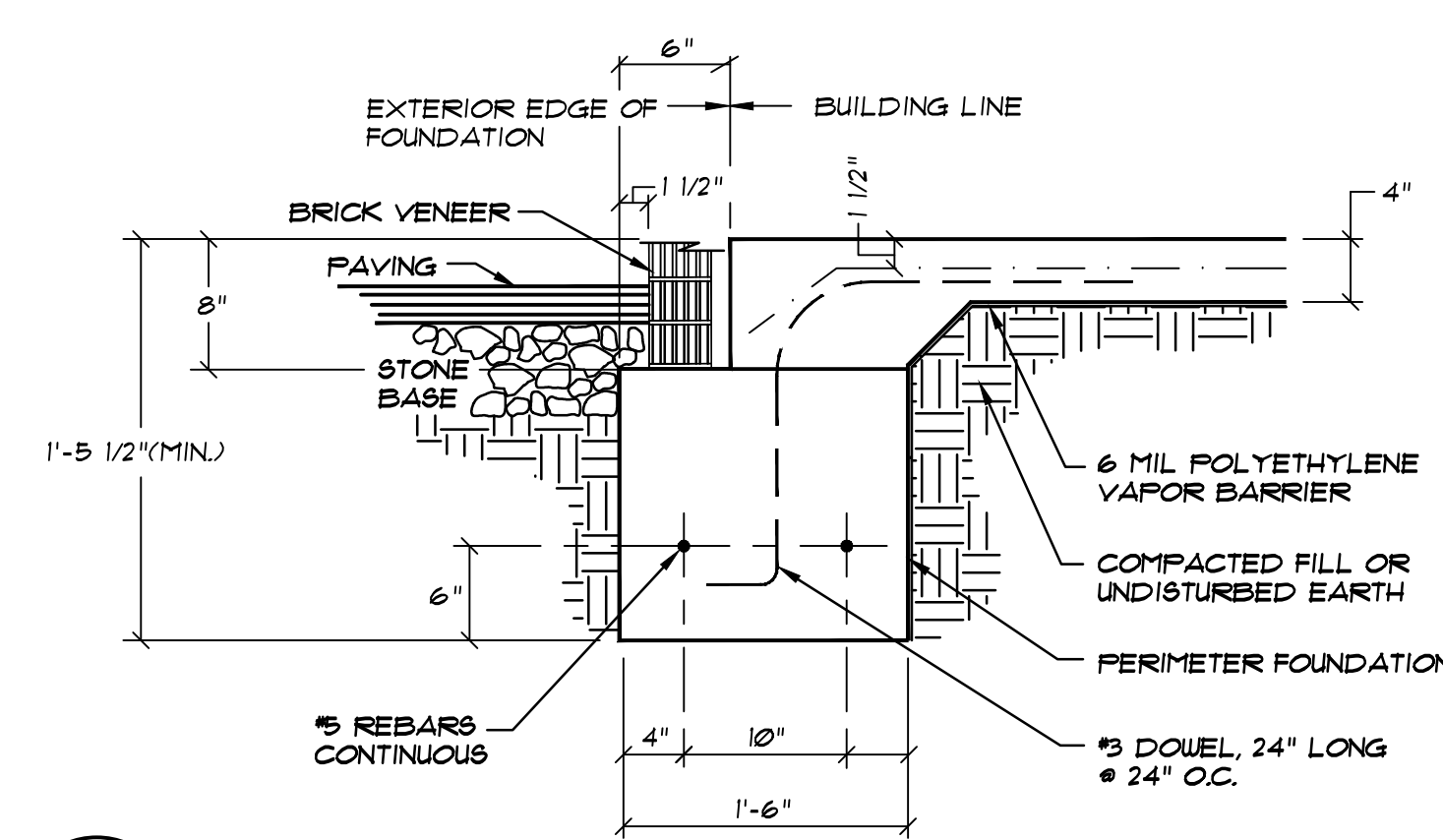
F
F7
CORNER WEDGE ANCHORS AT STUDWALL
NOT TO SCALE



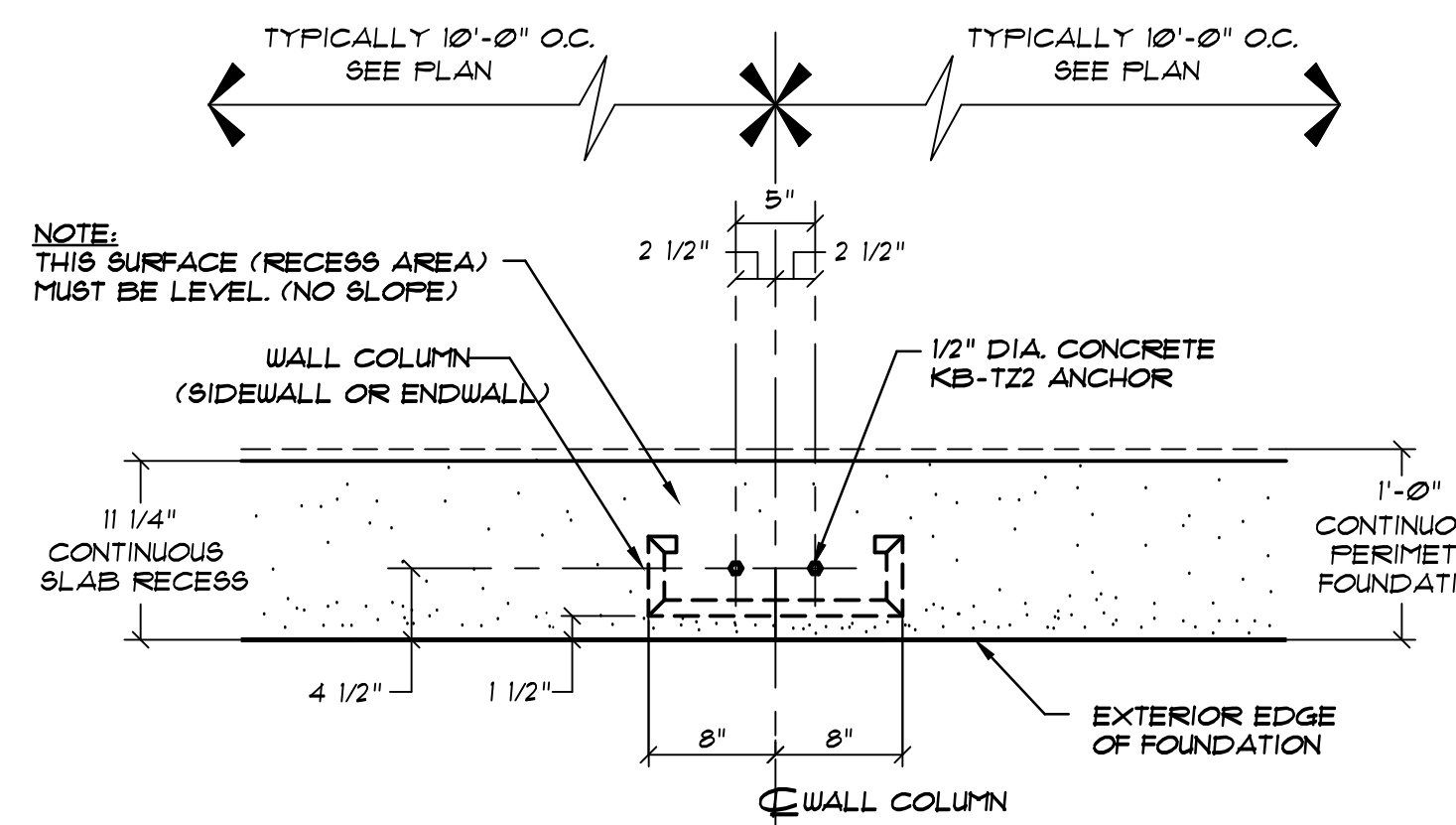
G
F7
TYPICAL CORNER WEDGE ANCHORS
NOT TO SCALE



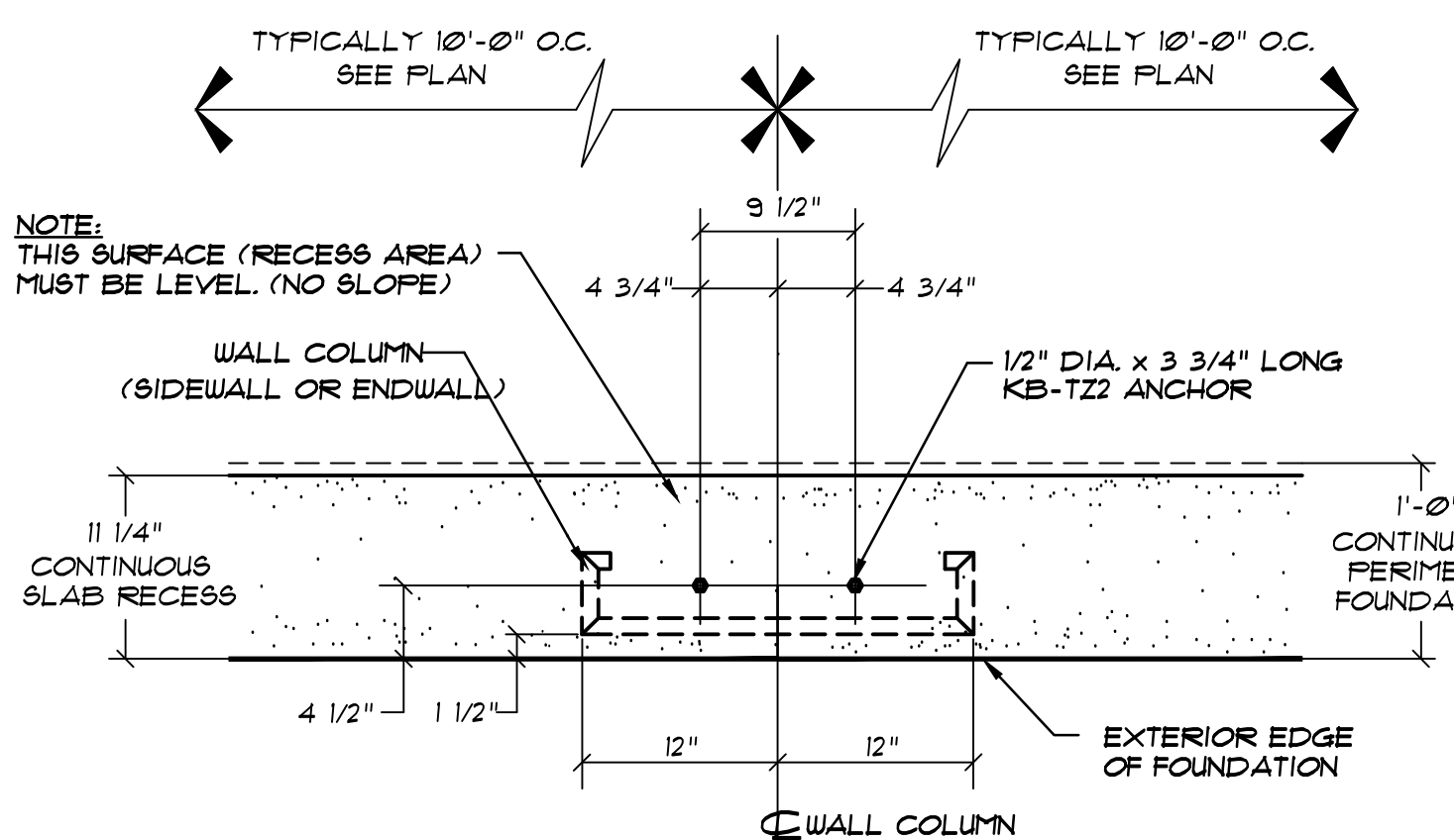
H
F7
WALL COLUMN ANCHORS AT CORNER
NOT TO SCALE



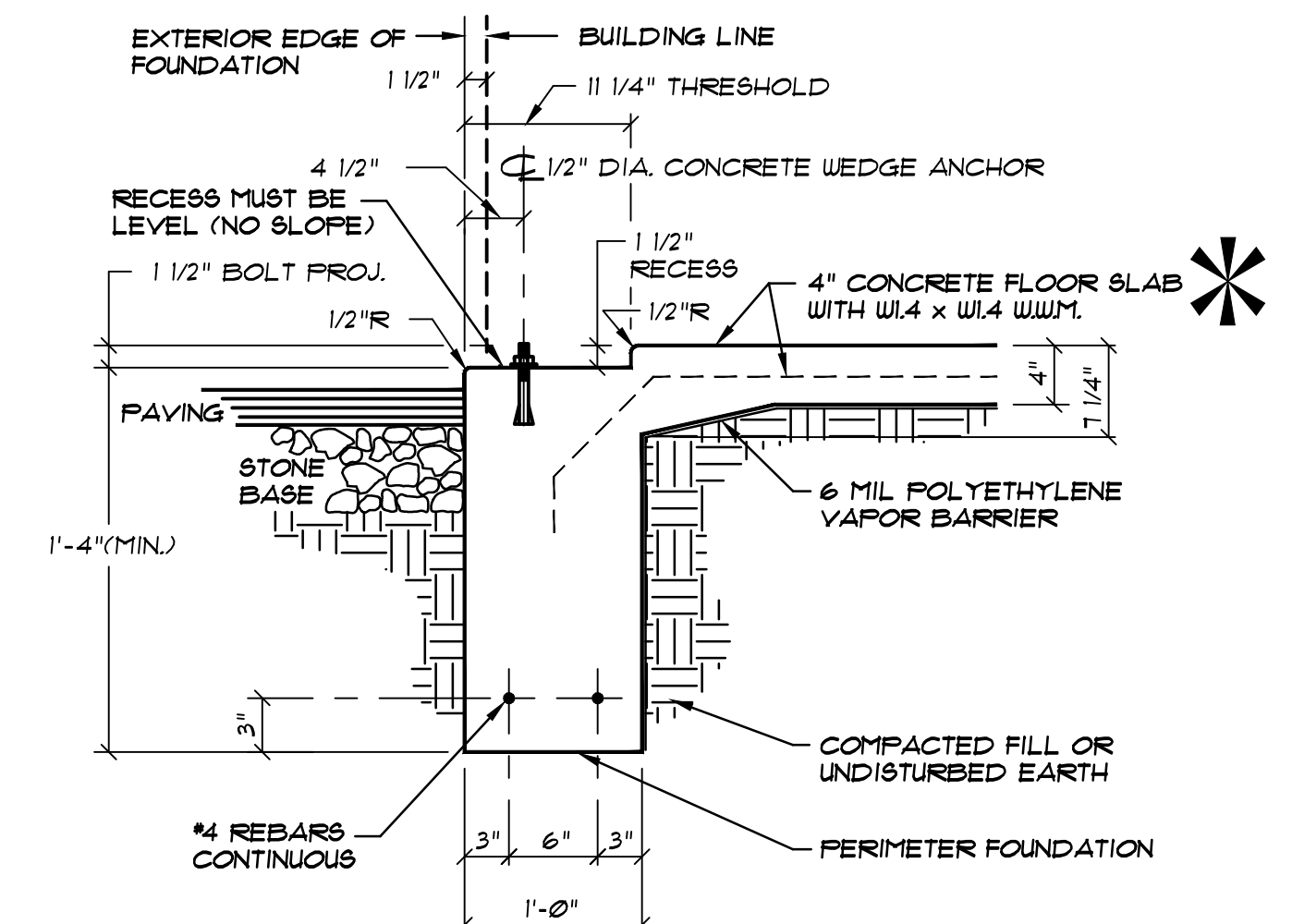
C
F7
PERIMETER FOUNDATION AT BRICK VENEER
NOT TO SCALE



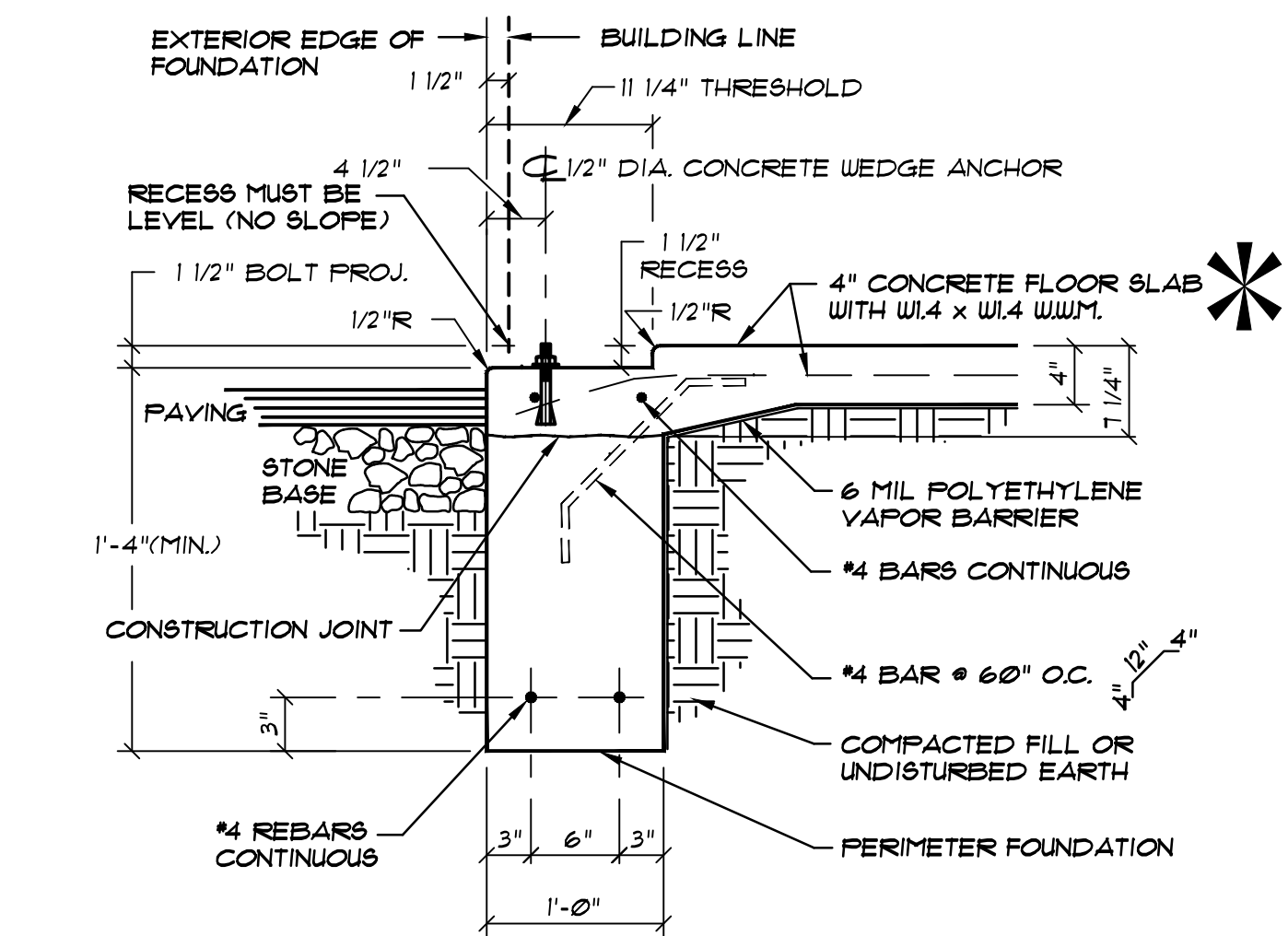
D
F7
TYPICAL WALL COLUMN WEDGE ANCHORS
NOT TO SCALE



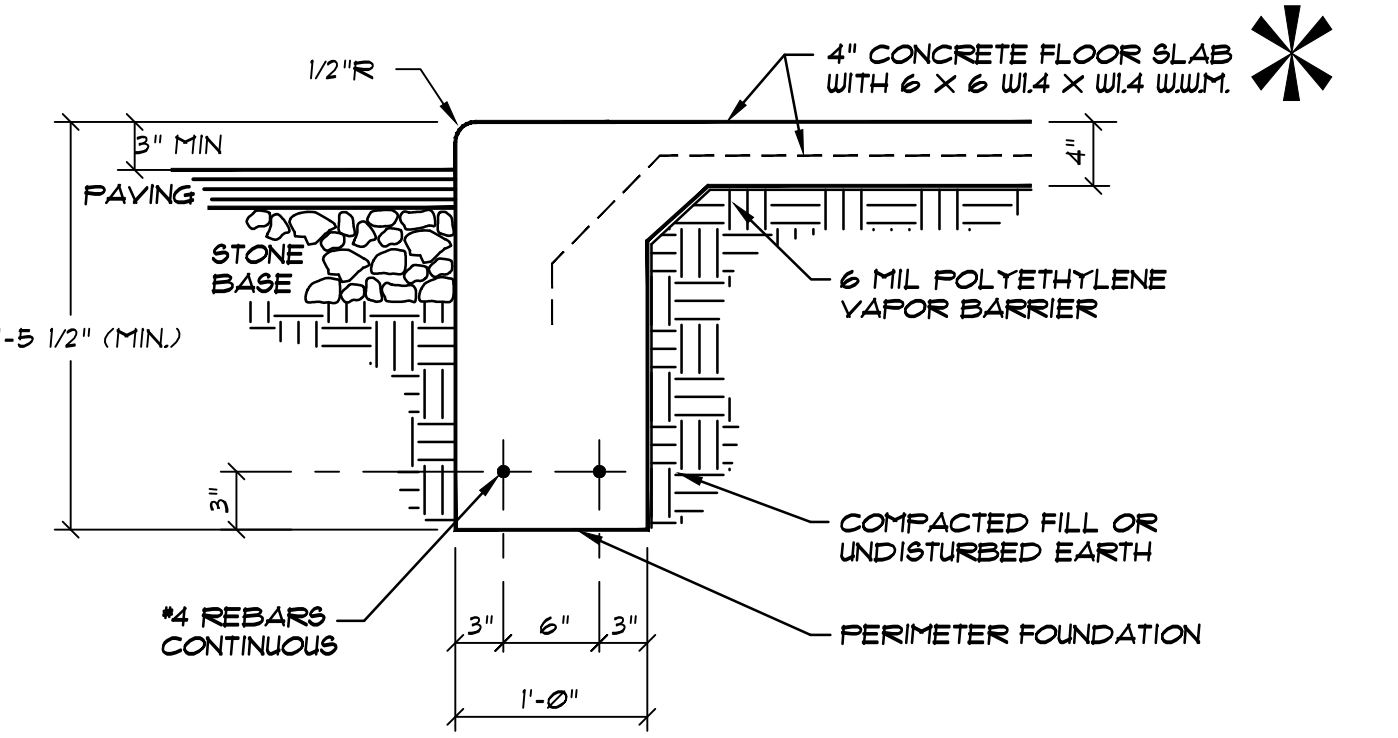
E
F7
TYPICAL WEDGE ANCHORS @ 24\"/>



A
F7
TYPICAL PERIMETER FOUNDATION SECTION (MONOLITHIC CONCRETE PLACEMENT)
NOT TO SCALE



A
F7
ALTERNATE PERIMETER FOUNDATION SECTION (TWO STAGE CONCRETE PLACEMENT)
NOT TO SCALE

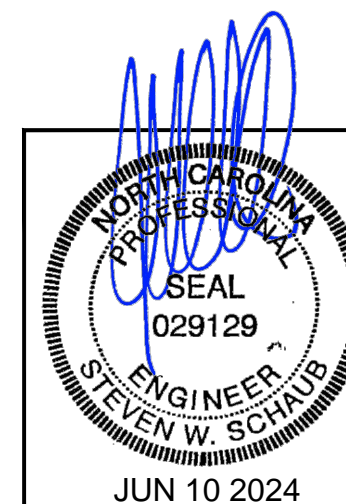


B
F7
PERIMETER FOUNDATION SECTION AT EXTERIOR STUDWALL (MONOLITHIC CONCRETE PLACEMENT)
NOT TO SCALE

MACRO SYNTHETIC FIBERS "COURSE FIBERS" (PER ASTM SUBCOMMITTEE C09.42), (PROPEX FIBERMESH 650 OR EQUIVALENT), MADE FROM VIRGIN POLYOLEFIN, HAVING AN EQUIVALENT DIAMETER BETWEEN 0.4 MM (0.016 IN) AND 1.25 MM (0.05 IN), HAVING A MINIMUM ASPECT RATIO (LENGTH/EQUIVALENT DIAMETER) OF 50, AT A MINIMUM ADDITION RATE OF 3 LB/CUBIC YARD (1.8 KG/CUBIC METER) MAY BE USED AS MINIMUM TEMPERATURE AND SHRINKAGE REINFORCEMENT, IN LIEU OF WELDED WIRE FABRIC, FOR THE CONSTRUCTION OF THE FOUNDATION ON THE ABOVE REFERENCED PROJECT.



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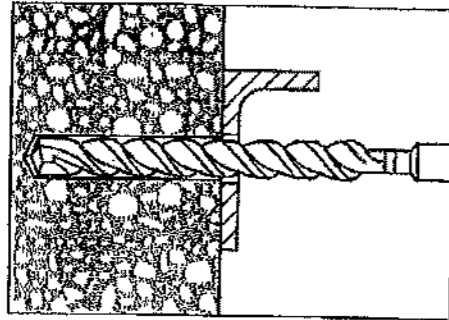


DATE:	1/19/24
DRAWN BY:	J. HARE
SCALE:	AS NOTED
APPROVED BY:	
REVISIONS	DATE BY

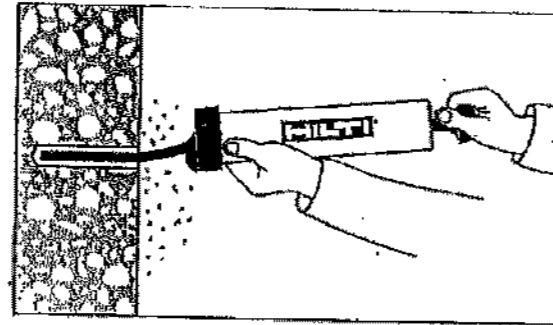
BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800) 654-7813

PROJECT NAME:	AMPLE STORAGE	PROJECT NO.:	NC23237
PROJECT ADDRESS:	ERWIN, NORTH CAROLINA	OWNER:	LAMPE MANAGEMENT COMPANY
SHEET TITLE:	FOUNDATION DETAILS & NOTES	DRAWING NUMBER:	F7

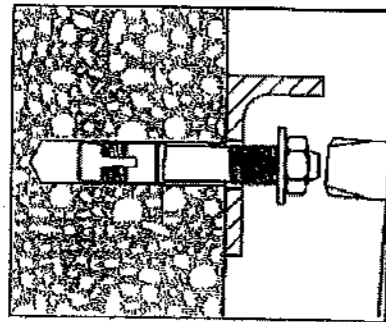
Kwik Bolt 3 Expansion Anchor Installation Instructions



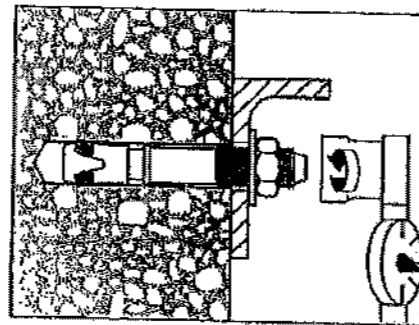
1. Hammer drill a hole to the same nominal diameter as the Kwik Bolt 3. The hole depth must exceed the anchor embedment by at least one diameter. The fixture may be used as a drilling template to ensure proper anchor location.



2. Clean hole.



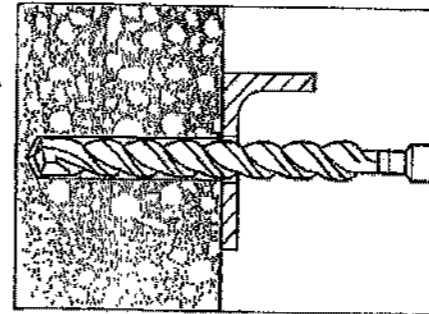
3. Drive the Kwik Bolt 3 into the hole using a hammer. The anchor must be driven until at least six threads are below the surface of the fixture.



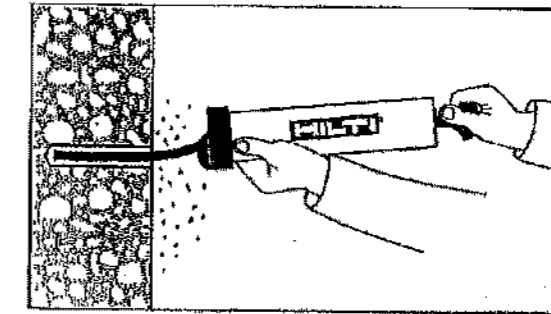
4. Tighten the nut to the recommended installation torque.

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)

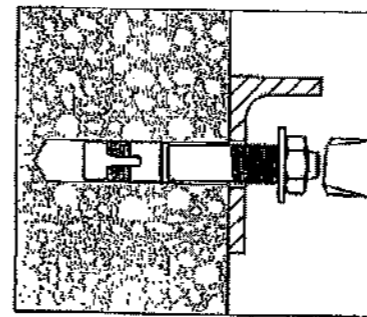
Kwik Bolt TZ Anchor Installation Instructions into normal-weight and lightweight concrete



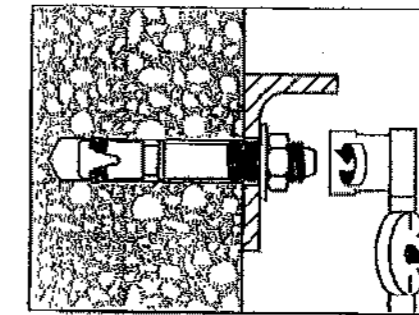
1. Hammer drill a hole to the same nominal diameter as the Kwik Bolt TZ. The hole depth must exceed the anchor embedment by at least 1/4 inch. The fixture may be used as a drilling template to ensure proper anchor location.



2. Clean hole.

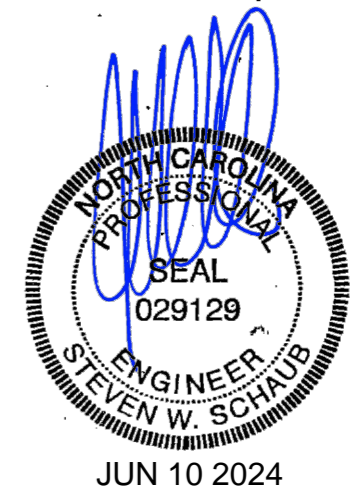


3. Drive the Kwik Bolt TZ into the hole using a hammer. The anchor must be driven until at least 4 threads are below the surface of the fixture.



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	60	60	110
	(Nm)	(34)	(81)	(81)	(149)

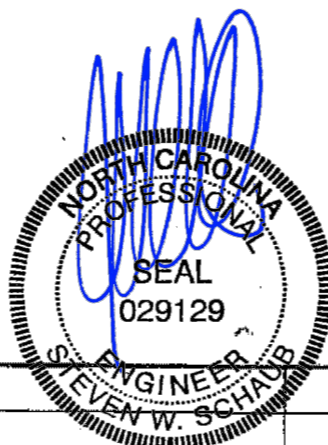
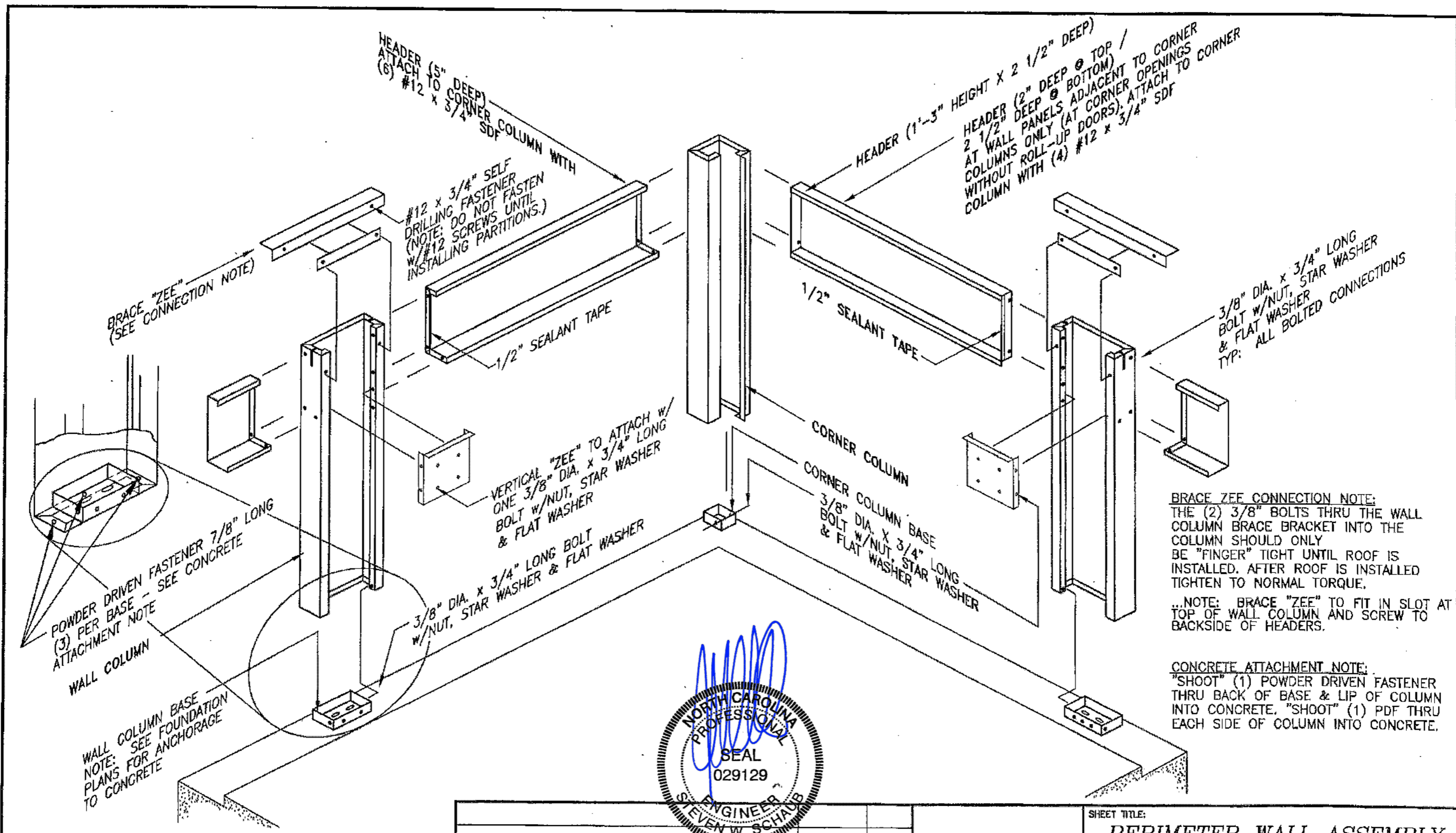


REVISIONS	DATE	BY



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(800)654-7813

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



REVISIONS	DATE	BY

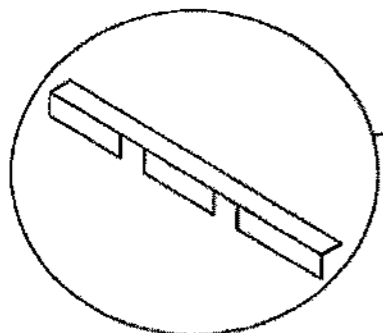
BETCO
 228 COMMERCE BLVD.
 STATESVILLE, NC 28625
 (800)654-7813

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

JUN 10 2024

CONTROL JOINT BRACE (S20139)
 ATTACH TO HEADERS w/(2)
 #12 x 1/8" SDF AT EACH HEADER
 (TOTAL OF 4 SCREWS)
 ..FIELD NOTCH IF NECESSARY TO FIT OVER
 CONTROL JOINT COLUMN...SEE ISOMETRIC
 VIEW BELOW...NOTE: LOCATION OF NOTCHES
 TO BE DETERMINED FROM WIDTH OF C.J. COLUMN

CONTROL JOINT COLUMN (HALF)



CONTROL JOINT COLUMN (HALF)

C.J. COLUMN EXPANSION TRIM

#10 x 5/8" SDF (PP) (8) EACH SIDE

SLAB RECESS

HEADER

1/8" PDF (2) EA. SIDE

#12 x 1/8" SDF

FIELD CUT ANGLE SA-2 FOR
 VERTICAL 'ZEE' ATTACHMENT
 AT WALL COLUMNS... POSITION
 ACCORDING TO 'YZ' LENGTH
 FASTEN TO C.J. COLUMN w/(2)
 #12 x 1/8" SDF EA. END...

CONTROL JOINT COLUMN (HALF)

FIELD CUT ANGLE SA-2 FOR
 VERTICAL 'ZEE' ATTACHMENT
 AT BASE OF COLUMN...
 'SHOOT' TO FOUNDATION
 w/(2) 1/8" PDF...

#12 x 1/8" SDF
 (4) PER ANGLE

SEALANT TAPE
 1/8" thick x 1/2" wide

C.J.C. EXPANSION TRIM
 #10 x 5/8" SDF (PP)
 (4) EACH SIDE

CONTROL JOINT BRACE
 FOR ROOF PAN
 ATTACHMENT AT TOP OF
 COLUMN... FASTEN TO
 HEADER WITH #12 x 1/8"
 SDF EACH END
 (SEE ISOMETRIC VIEW)

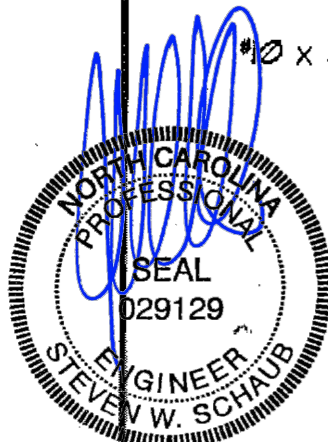
3/8" DIA. x 3/4" LG. BOLT,
 NUT, FLAT WASHER &
 STAR WASHER

CONTROL JOINT COLUMN (HALF)

C.J.C. EXPANSION TRIM
 BRACKET... (2) REQUIRED...
 (1) AT 1/3 OF COLUMN HGT.
 & (1) AT 2/3 OF COLUMN HGT.

#12 x 1/8" SDF
 (2) PER BRACKET

1/2" DIA. x 3 3/4" LG.
 WEDGE ANCHOR



JUN 10 2024

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.

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



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SHEET TITLE:

**CONTROL JOINT COLUMN
 AND TRIM INSTALLATION**

DRAWN BY:
 K.D.W.

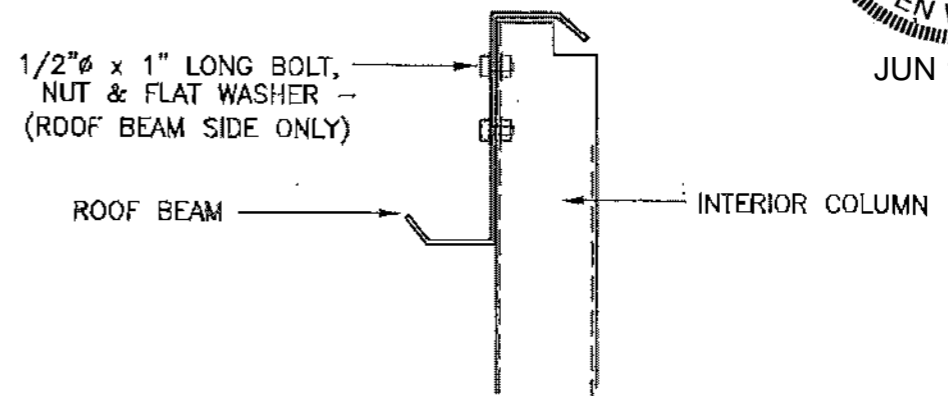
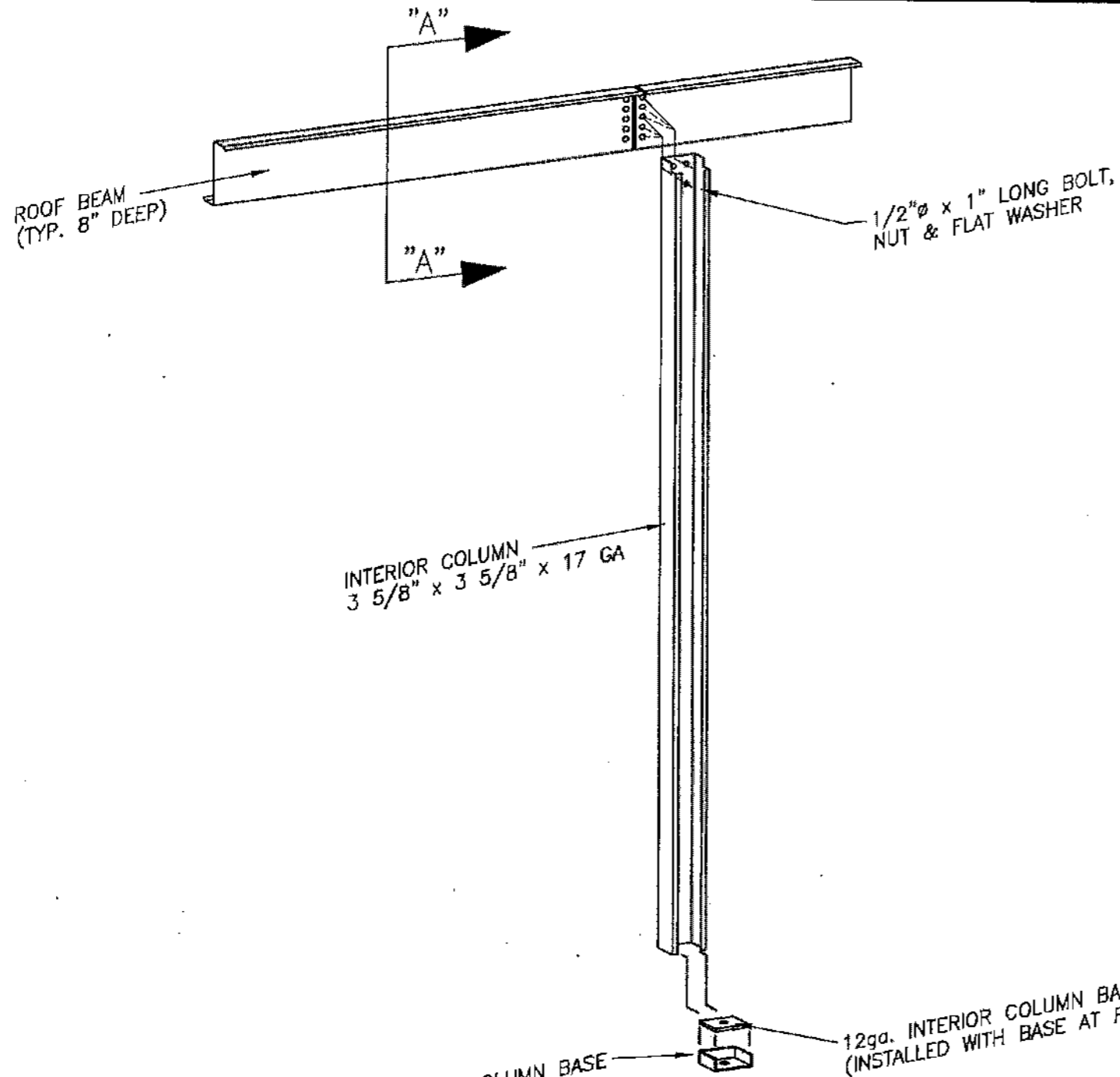
APPROVED BY:

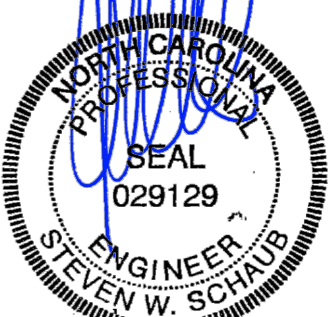
DRAWING NUMBER:

SCALE:
 NTS

DATE:
 8/1/94

ERC105X




 JUN 10 2024

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

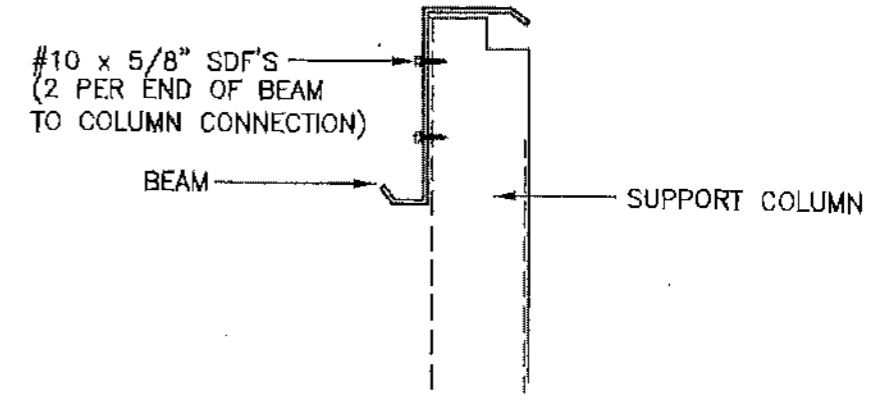
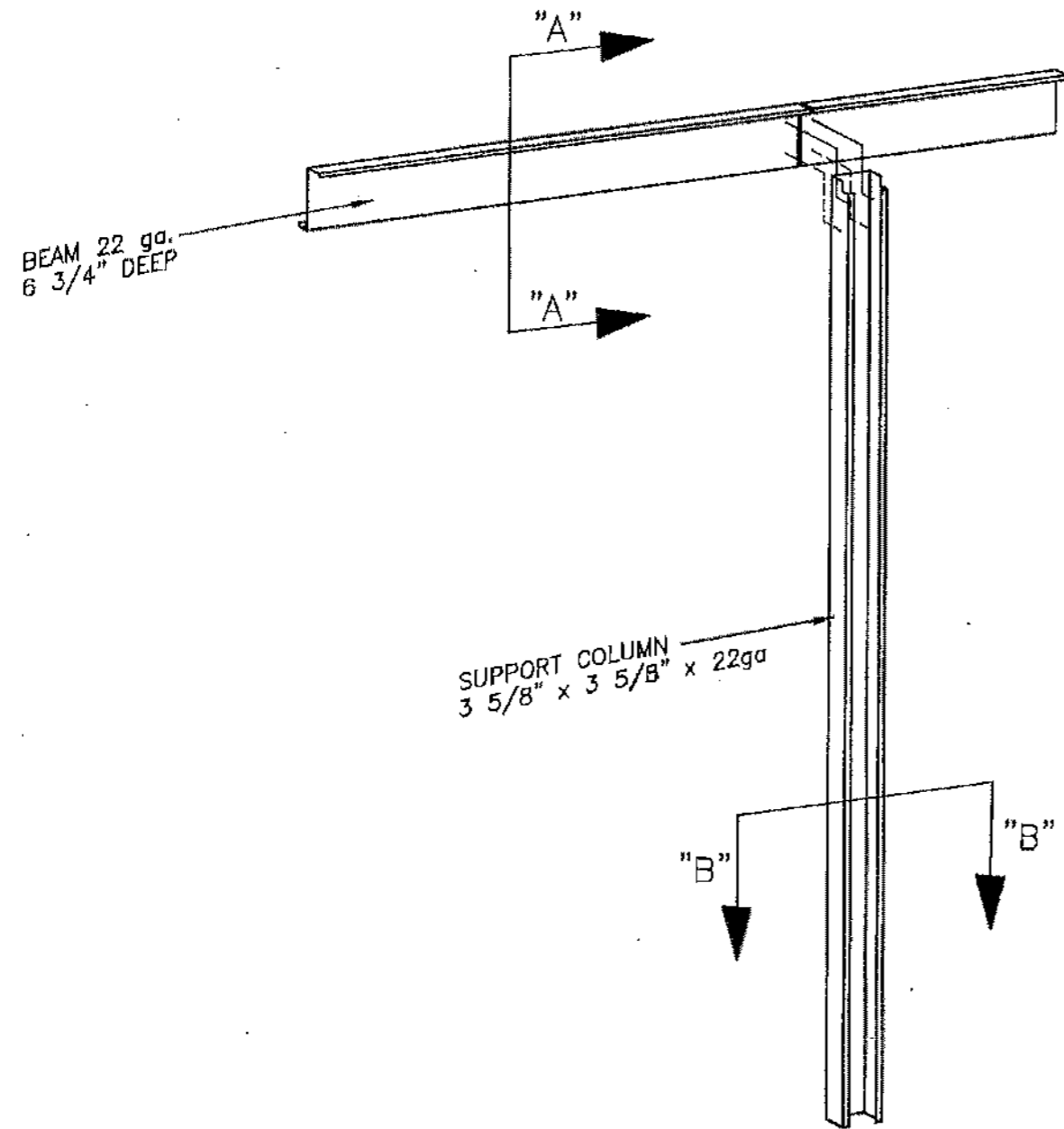
12ga. INTERIOR COLUMN BASE (BASE TO BE FACTORY INSTALLED INSIDE COLUMN CAVITY w/ (2) #12 x 7/8\"/>

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

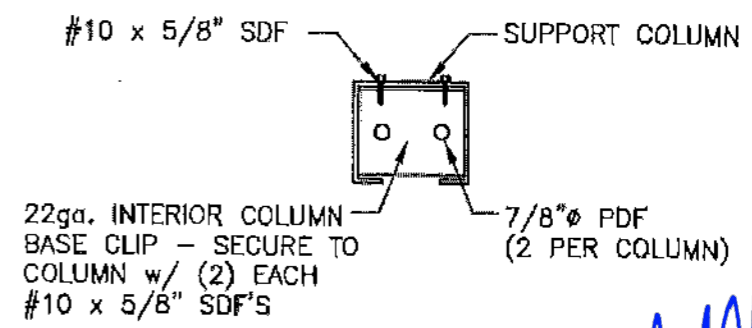
REVISIONS	DATE	BY
⚠ REVISIED COLUMN SIZE	8-29-02	BAM
⚠ DETAIL REVISIONS	3-16-99	FOX
⚠ GENERAL REVISIONS	3-9-99	FOX

BETCO
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 STATESVILLE, NC 28625
 (800)654-7813

SHEET TITLE: <i>Interior Column Installation All Heights</i>		
DRAWN BY: J POPE	APPROVED BY:	DRAWING NUMBER: ERC110X
SCALE: NTS	DATE: 1/30/98	



SECTION
"A" - "A"



SECTION
"B" - "B"

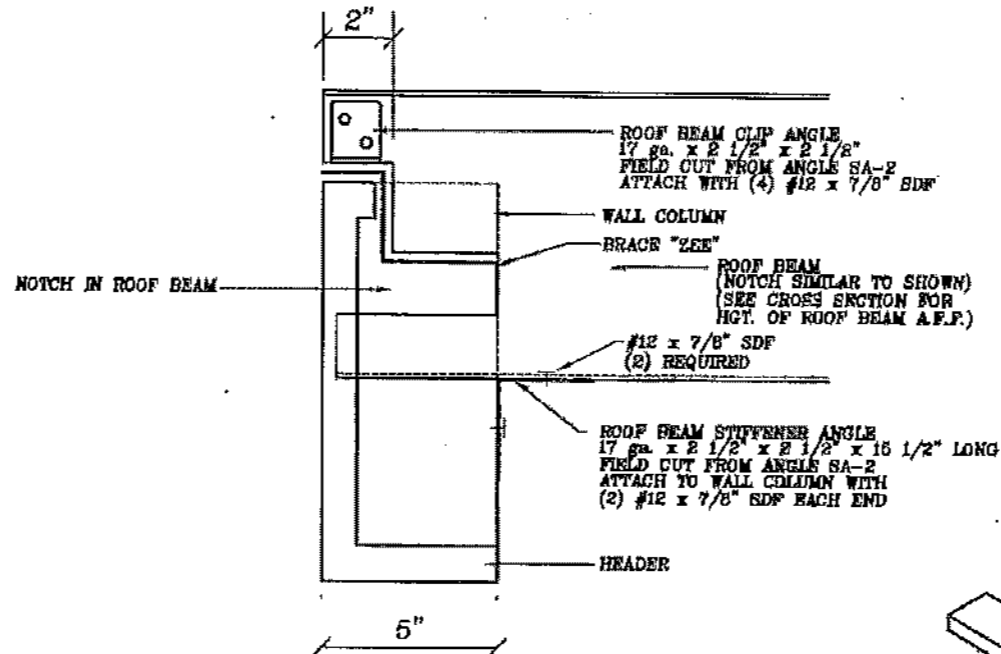
NOTE: SEE BUILDING CROSS SECTION FOR COLUMN HEIGHT AND FOR ROOF BEAM HEIGHT ABOVE FINISHED FLOOR



JUN 10 2024

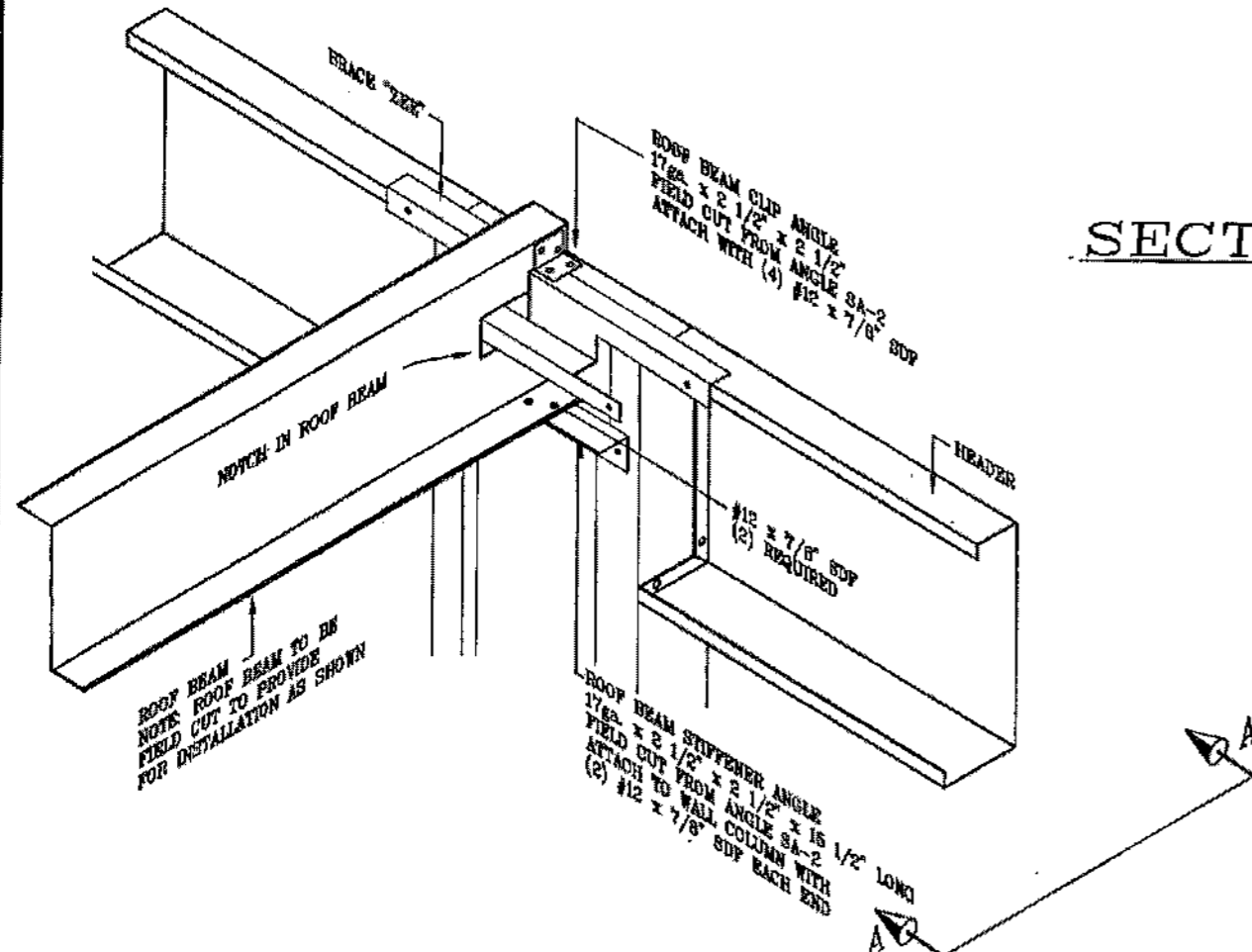
REVISIONS	DATE	BY	 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	SHEET TITLE:	
▲ REVISED COLUMN SIZE ▲ GENERAL REVISIONS ▲ REMOVED HOLES FROM BEAM & COLUMN ▲ GENERAL REVISIONS	8/29/02 3/6/02 2/6/02 3-8-98	BAM BDL JCM FOX		Interior Door Structure At Corridor Installation All Heights	DRAWN BY: J POPE
				SCALE: NTS	DATE: 1/30/98
					DRAWING NUMBER: ERC112X

BRACE "ZEE" INSTALLATION
 THE (2) 3/8" BOLTS THRU THE
 BRACE "ZEE" INTO THE WALL COLUMN
 SHOULD ONLY BE "FINGER" TIGHT UNTIL ROOF
 IS INSTALLED. AFTER ROOF IS INSTALLED
 TIGHTEN TO NORMAL TORQUE.
 ...NOTE: BRACE "ZEE" TO FIT IN SLOT
 AT TOP OF WALL COLUMN AND SCREW TO
 BACKSIDE OF HEADER...

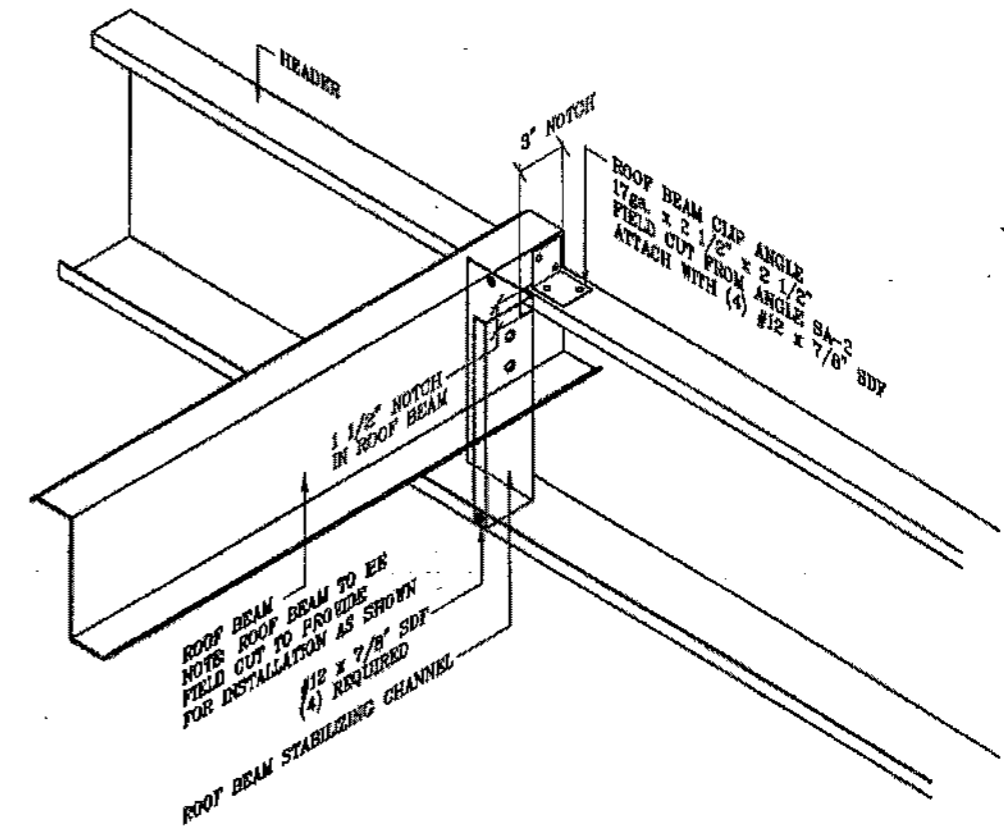


SECTION A-A

NOTE:
 REFER TO BUILDING CROSS SECTION DRAWING
 FOR DIMENSION FROM FINISHED FLOOR ELEVATION
 TO TOP OF ROOF BEAM NOTCH AND SET ROOF
 BEAM AT THE HEIGHT SHOWN ON CROSS SECTION
 SO THAT THE ROOF BEAM IS LEVEL FOR THE
 ENTIRE LENGTH OF BUILDING.




ROOF BEAM AT COLUMN

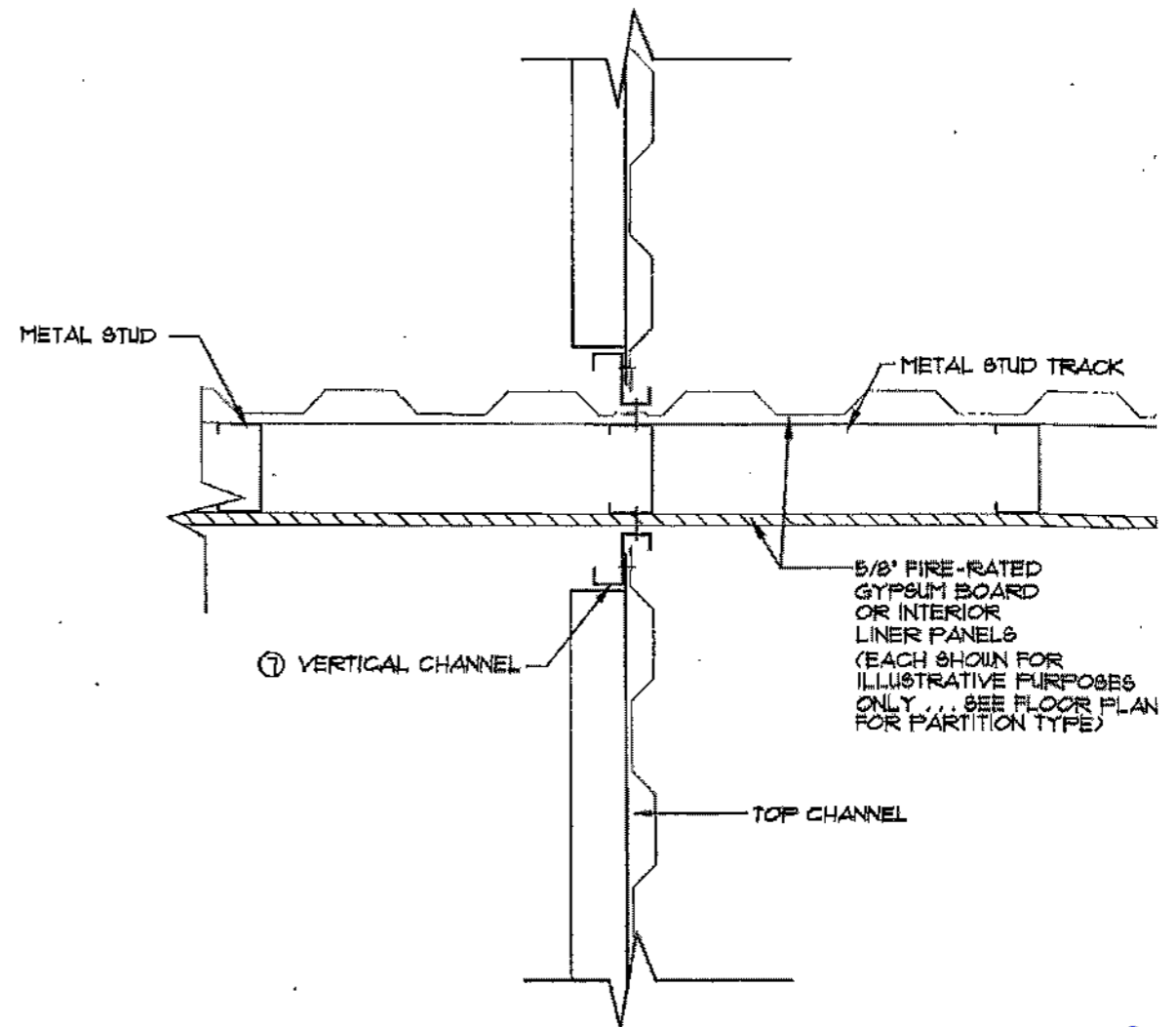
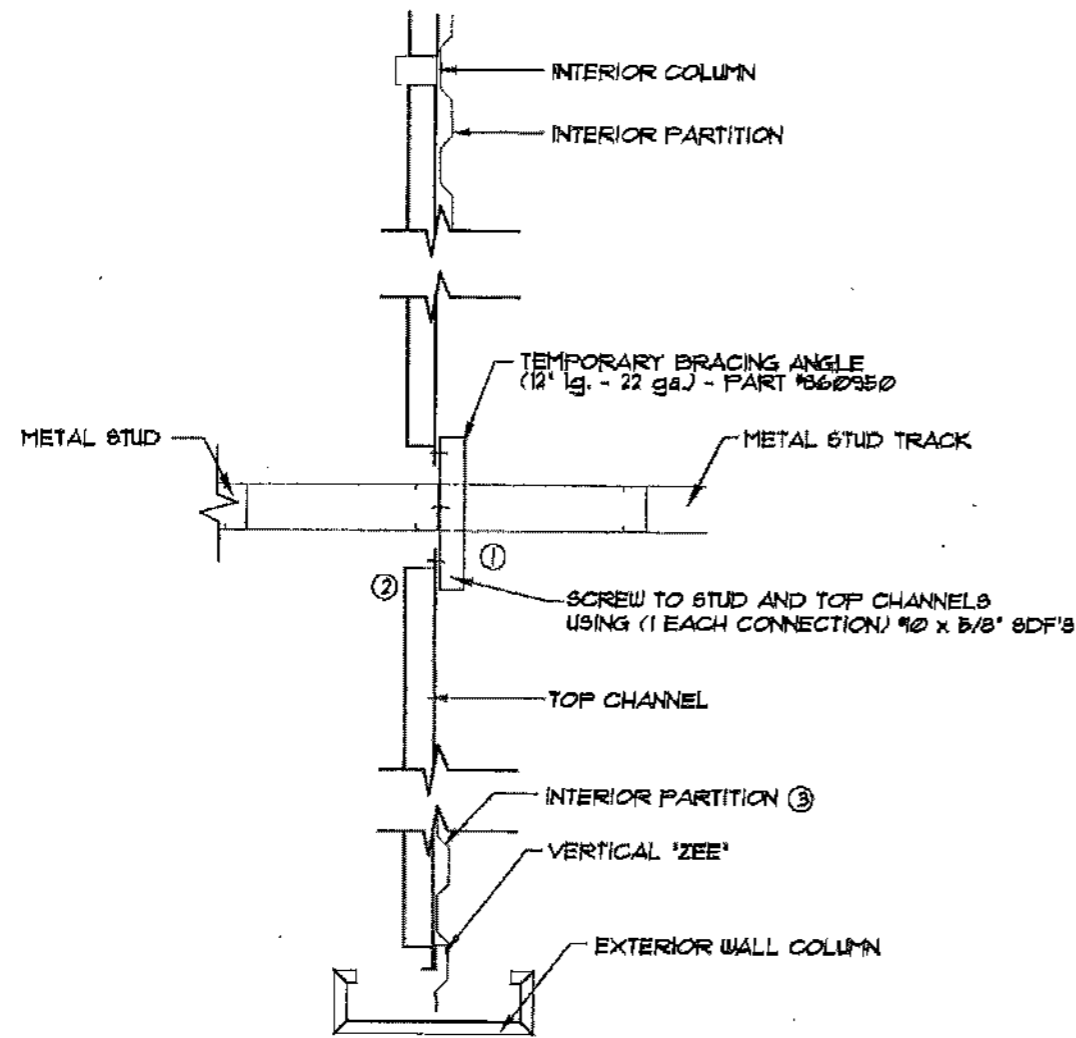


ROOF BEAM AT HEADER



JUN 10 2024

REVISIONS			 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	SHEET TITLE:	
△	REVISED FASTENER SIZE	1/15/03		JCM	Roof Beam Assembly Details
△	MODIFIED NOTCH IN ROOF BEAM	3/9/99	FOX	DRAWN BY: B.D.	APPROVED BY:
				SCALE: NTS	DATE: 5/8/98
					DRAWING NUMBER: ERC115X



TEMPORARY BRACING ANGLE INSTALLATION DETAIL

- 1) AFTER STANDING COLUMNS AND STUDWALL... ATTACH TEMPORARY BRACING ANGLE TO STUD AT SAME HEIGHT AS TOP CHANNEL AS SHOWN ON BUILDING CROSS SECTION
- 2) ATTACH TOP CHANNEL TO TEMPORARY BRACING ANGLE
- 3) INSTALL 3 PARTITION PANELS & USE TO PLUMB COLUMNS AND STUDWALL
- 4) IF REQUIRED, INSTALL CONTINUOUS INSULATION SUPPORTS AND INSULATION
- 5) INSTALL ROOF PANELS
- 6) REMOVE TEMPORARY BRACING ANGLE PRIOR TO INSTALLING GYPSUM BOARD OR LINER PANELS
- 7) ATTACH VERTICAL CHANNELS TO STUD
- 8) ATTACH FRAMING TO VERTICAL CHANNEL & INSTALL REMAINING PARTITION PANELS



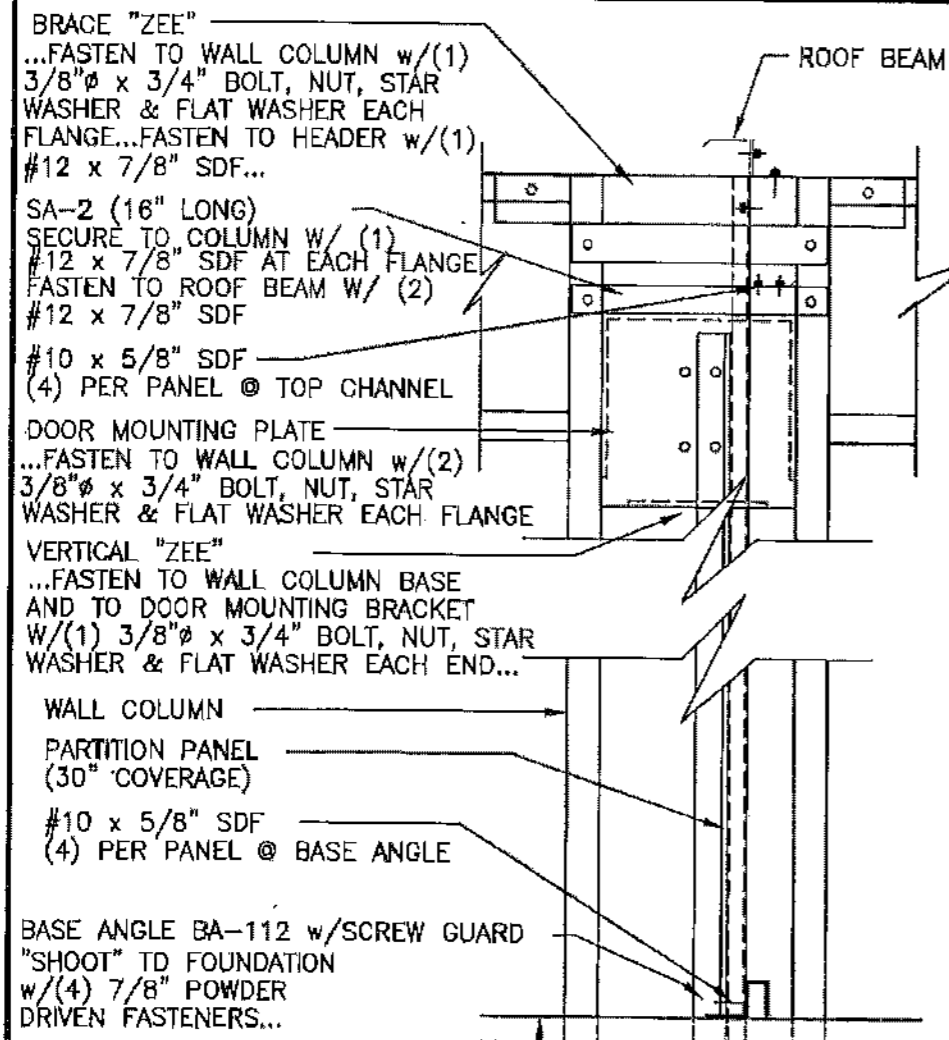
JUN 10 2024

REVISIONS	DATE	BY

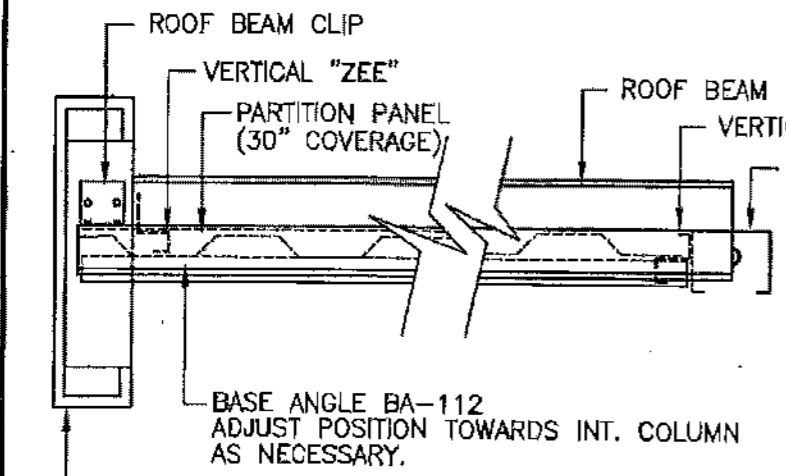


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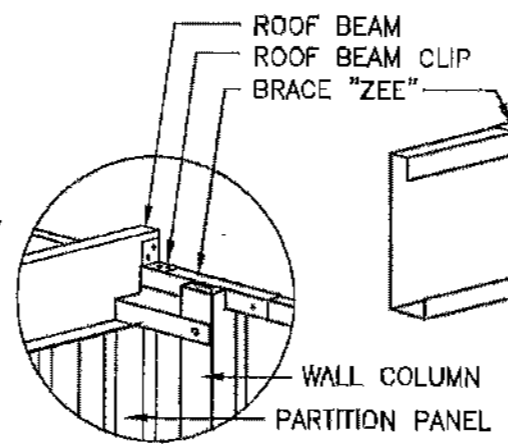
SHEET TITLE: TEMPORARY BRACING @ PARTITIONS & INT. STUDWALL		
DRAWN BY: B. MCDANIEL	APPROVED BY:	DRAWING NUMBER: ERC130X
SCALE: NTS	DATE: 3/19/98	



SECTION A-A



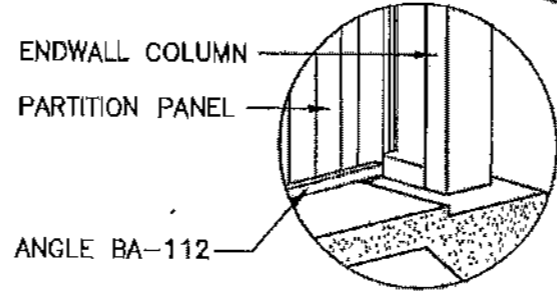
PLAN VIEW



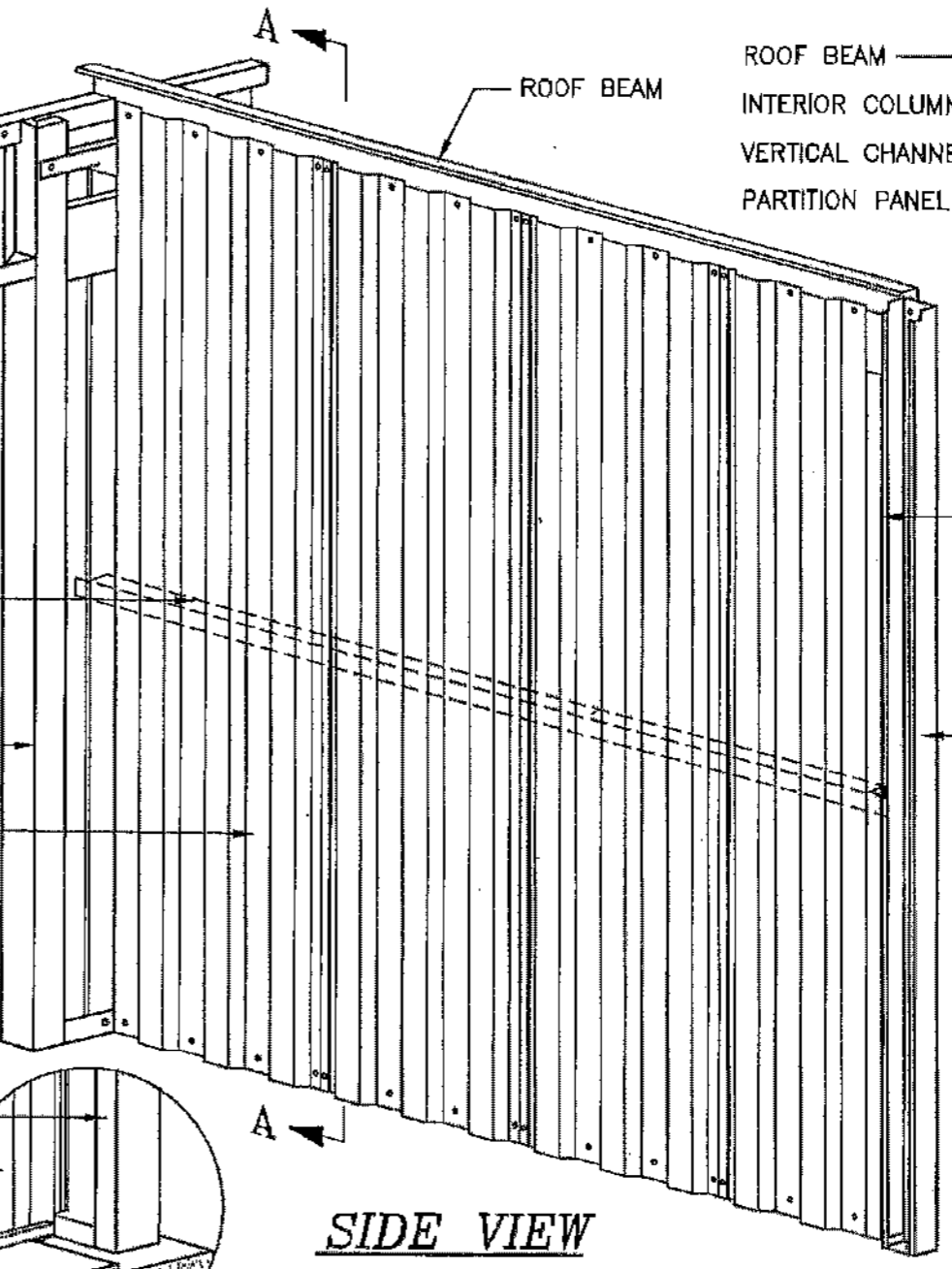
OPPOSITE VIEW THIS CORNER

(NOTE: INSTALL A TOP CHANNEL AT 4'-6" A.F.F. ONLY WHEN PANEL HEIGHT IS 8'-0" OR MORE.) (INSTALL FLANGES DOWN)

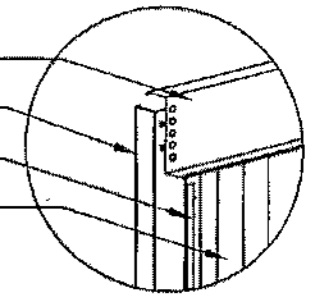
PARTITION PANEL (30" COVERAGE) FASTEN TO ROOF BEAM AND BASE ANGLE w/(4) #10 x 5/8" SDF EACH... (1) PER PAN SECTION AND (1) EACH SIDE OF LAP JOINT... FASTEN TO VERTICAL FRAMING w/(4) #10 x 5/8" SDF EACH - (SEE NOTE)



OPPOSITE VIEW THIS CORNER



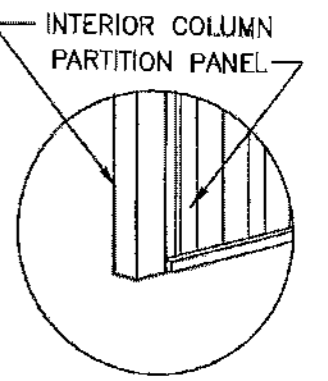
SIDE VIEW



OPPOSITE VIEW THIS CORNER

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

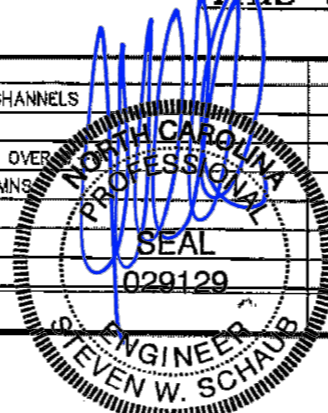
INTERIOR COLUMN



OPPOSITE VIEW THIS CORNER

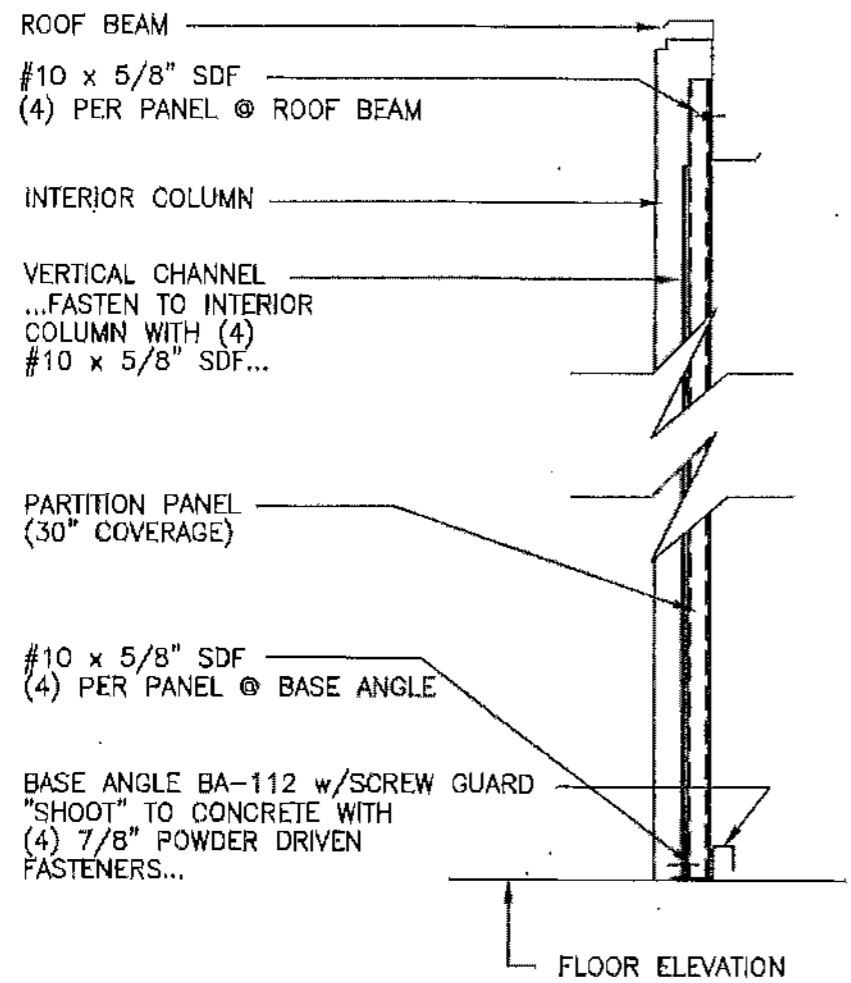
NOTE: THE FOUR (4) FASTENERS FOR ATTACHING PARTITION PANELS TO INTERIOR COLUMNS ARE INSTALLED AT THE TOP, BOTTOM AND AT THE 1/3 POINTS NOT TO EXCEED A 3'-0" VERTICAL SPACING BETWEEN FASTENERS.

REVISIONS	DATE	BY
TURNED DIRECTION OF MID TOP CHANNELS	3/17/4	JCM
REVISED INTERIOR COLUMNS	8/29/02	BAM
ADDED TOP CHANNEL AT PANELS OVER	2/7/02	BIL
ADDED NOTE FOR INTERIOR COLUMNS	3/30/01	TLR
GENERAL REVISIONS	5/8/99	CWM
GENERAL REVISIONS	3/23/98	CJG
REVISION 1	6/4/98	KLH

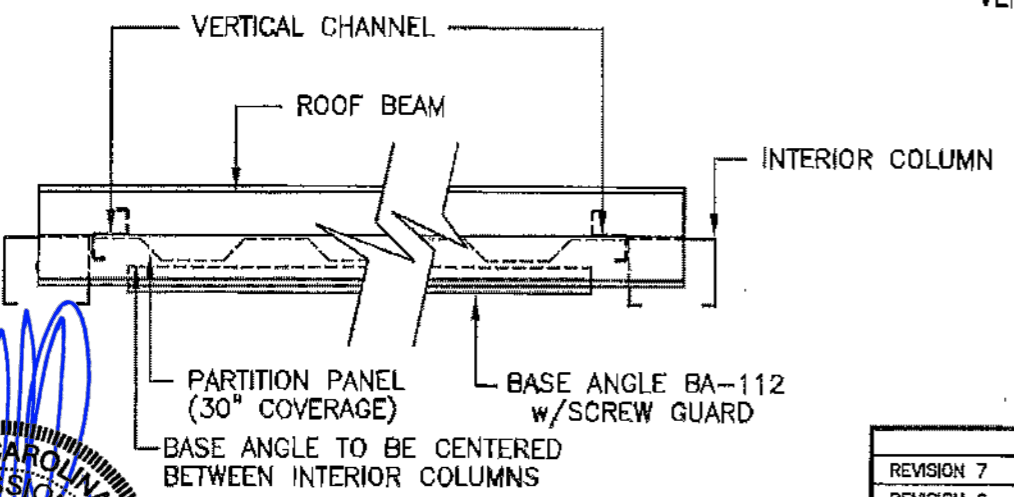


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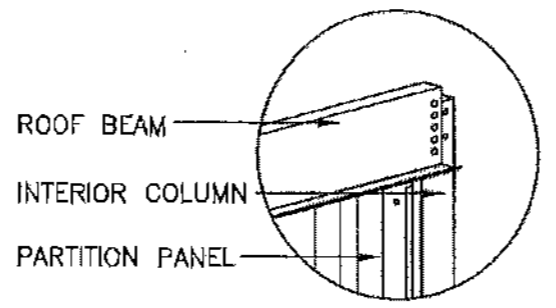
SHEET TITLE: Partition - Endwall Column to Interior Column		
DRAWN BY: J POPE	APPROVED BY:	DRAWING NUMBER: ERC200X
SCALE: NTS	DATE: 6/17/94	



SECTION A-A



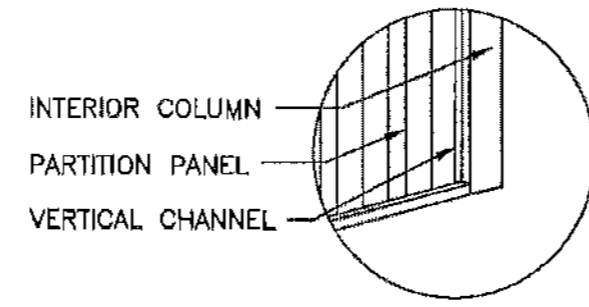
PLAN VIEW



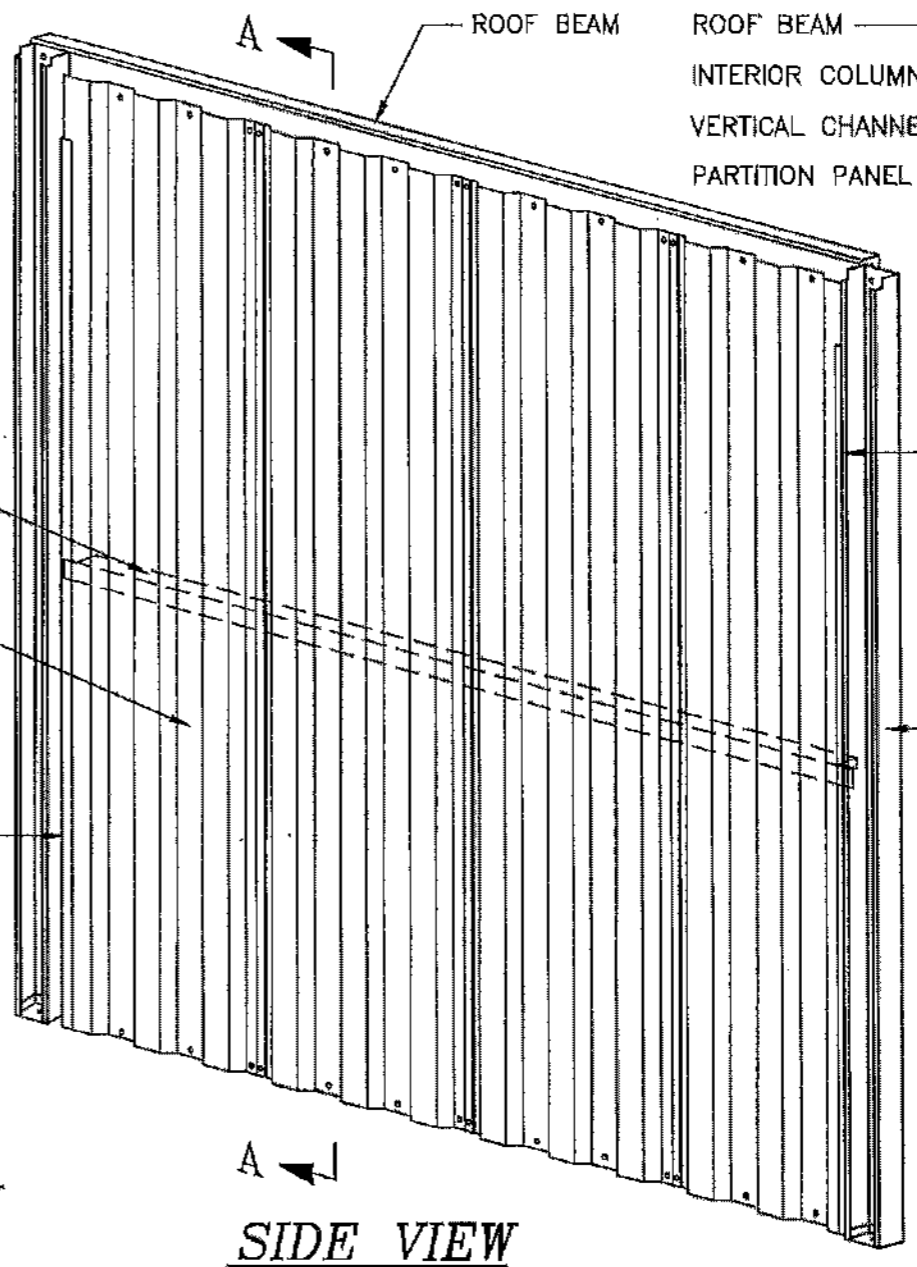
OPPOSITE VIEW THIS CORNER

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

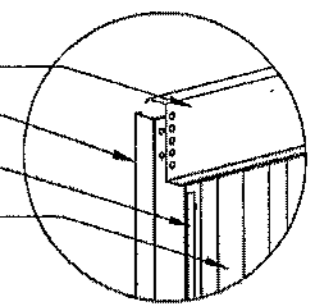
PARTITION PANEL (30" COVERAGE) FASTEN TO ROOF BEAM AND BASE ANGLE w/(4) #10 x 5/8" SDF EACH... (1) PER PAN SECTION AND (1) EACH SIDE OF LAP JOINT... ...FASTEN TO VERTICAL FRAMING w/(4) #10 x 5/8" SDF EACH - (SEE NOTE)



OPPOSITE VIEW THIS CORNER

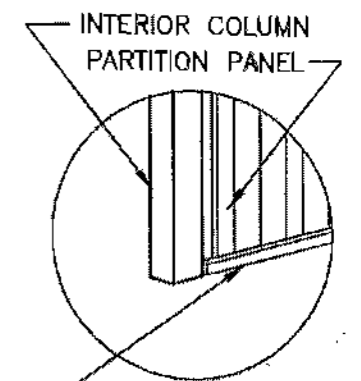


SIDE VIEW



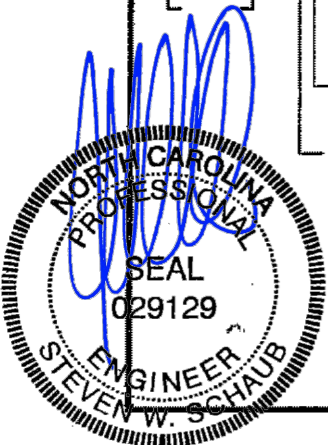
OPPOSITE VIEW THIS CORNER

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	3/17/04	JCM
REVISION 6	8/28/02	BAM
REVISION 5	2/7/02	BDL
REVISION 4	3/30/01	TLR
REVISION 3	3-24-98	FOX
REVISION 2	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"Ø 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"Ø x 3/4" BOLT, NUT, STAR
 WASHER & FLAT WASHER EACH FLANGE

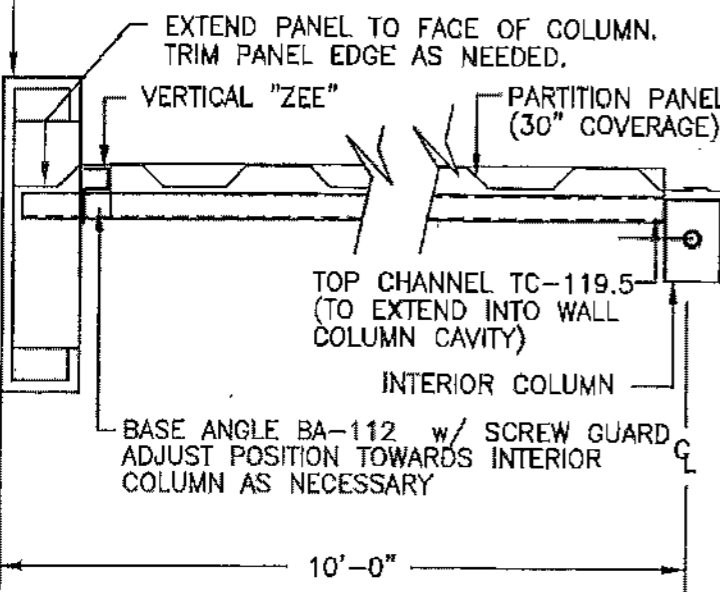
VERTICAL "ZEE"
 ...FASTEN TO WALL COLUMN BASE
 AND TO DOOR MOUNTING BRACKET
 w/(1) 3/8"Ø x 3/4" BOLT, NUT, STAR
 WASHER & FLAT WASHER EACH END...

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

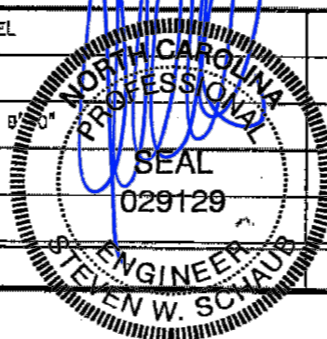
SECTION A-A



PLAN VIEW

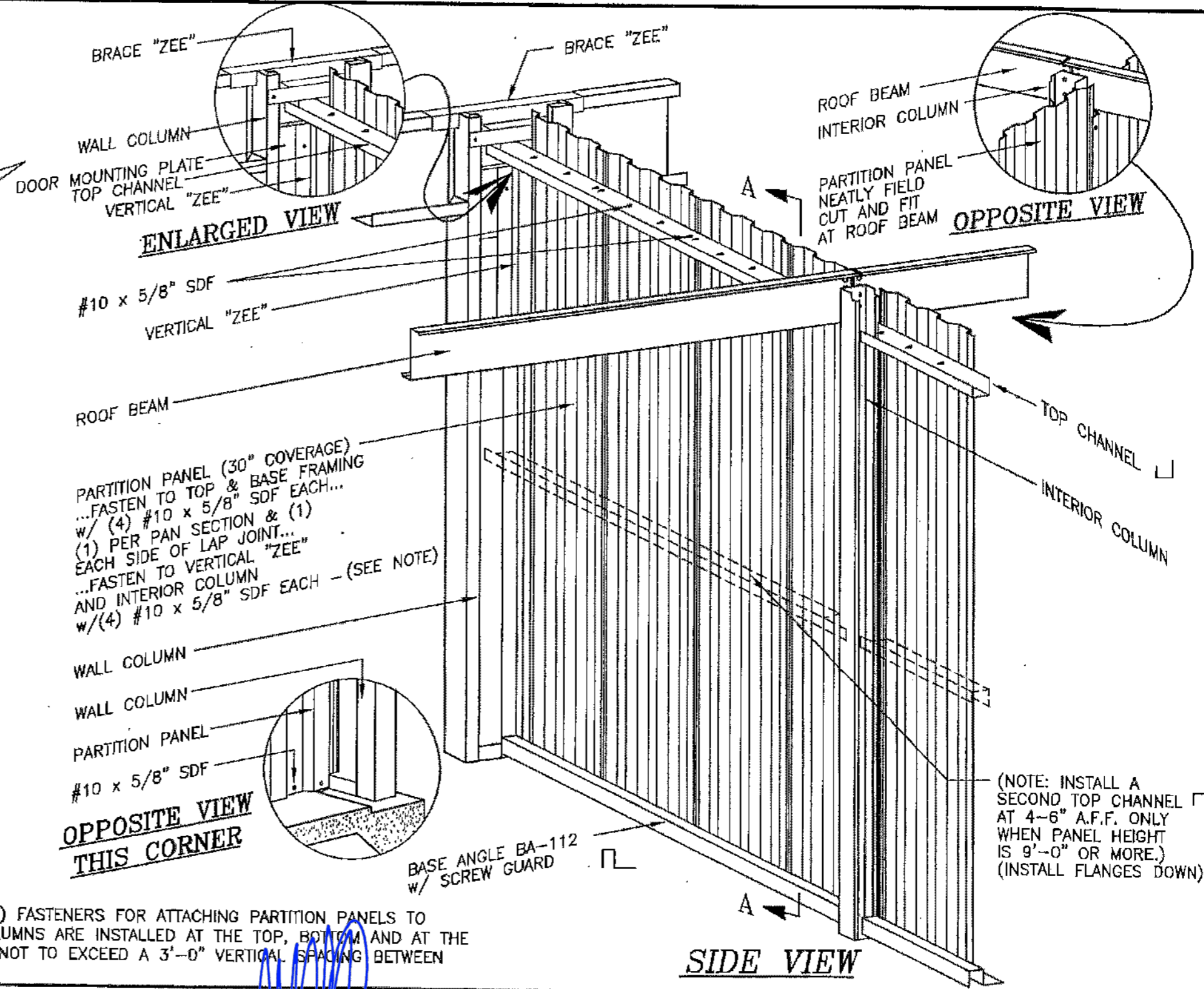
NOTE:
 THE FOUR (4) FASTENERS FOR ATTACHING PARTITION PANELS TO
 INTERIOR COLUMNS ARE INSTALLED AT THE TOP, BOTTOM AND AT THE
 1/3 POINTS NOT TO EXCEED A 3'-0" VERTICAL SPACING BETWEEN
 FASTENERS.

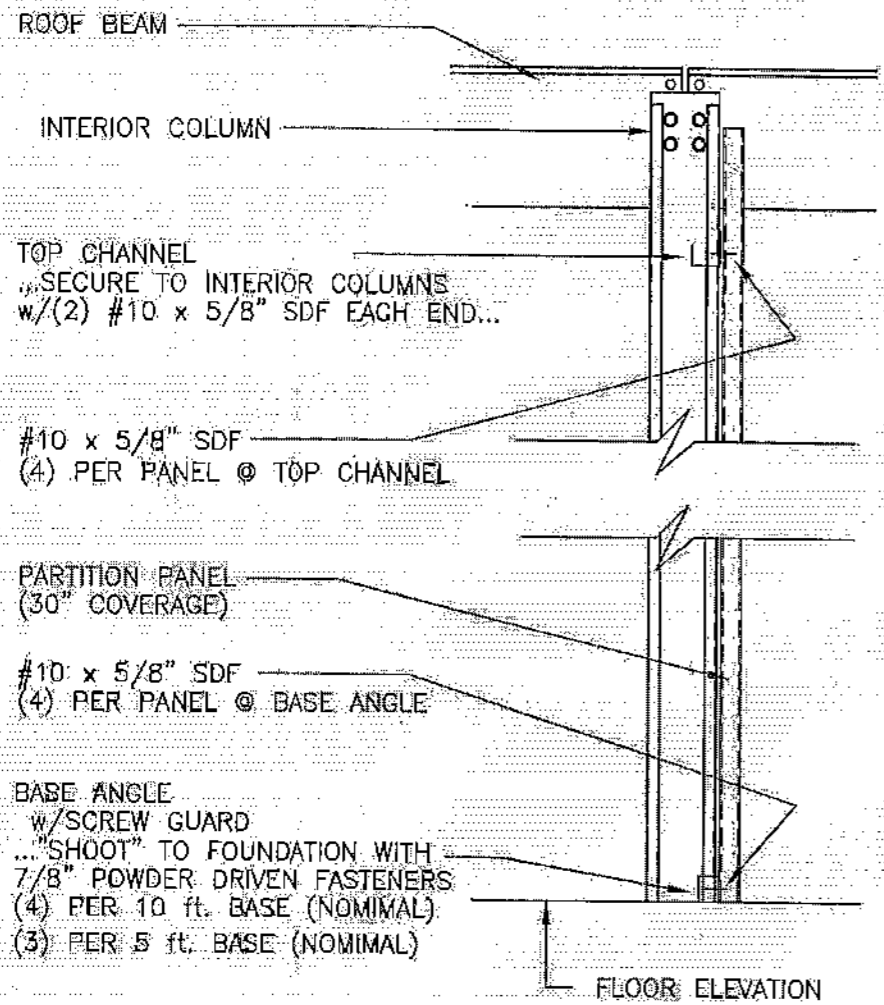
REVISED DIRECTION OF MID TOP CHANNEL	3/17/04	JCM
REVISED INTERIOR COLUMNS	8/29/02	BAM
ADDED TOP CHANNEL AT PANELS OVER 8'-0"	2/7/02	BDL
ADDED NOTE FOR INTERIOR COLUMNS	4/2/01	TLR
GENERAL REVISIONS	4/12/99	CWM
REVISIONS	DATE	BY



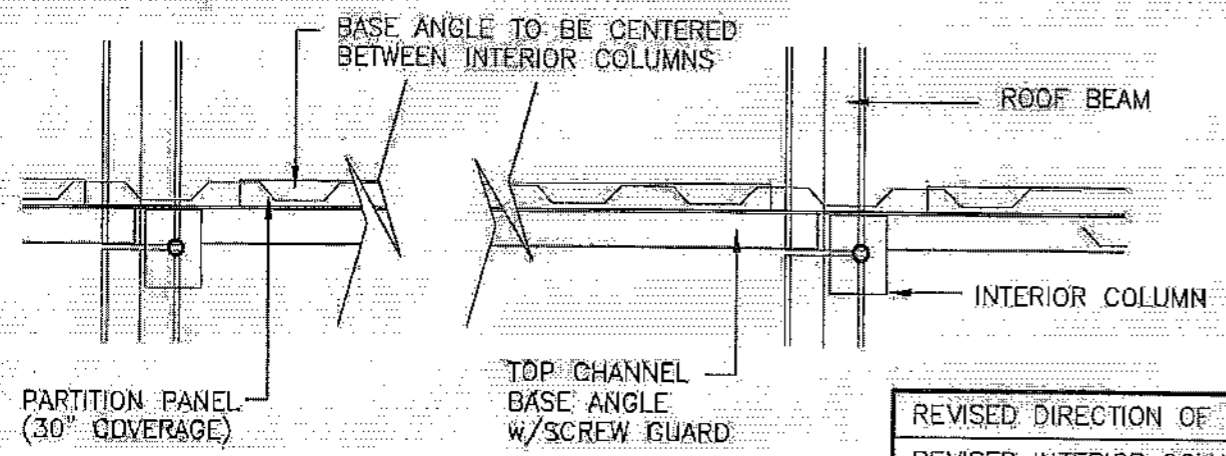
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SHEET TITLE: Partition - Sidewall Column to Interior Column - 10' span		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC202X
SCALE: NTS	DATE: 6/20/94	

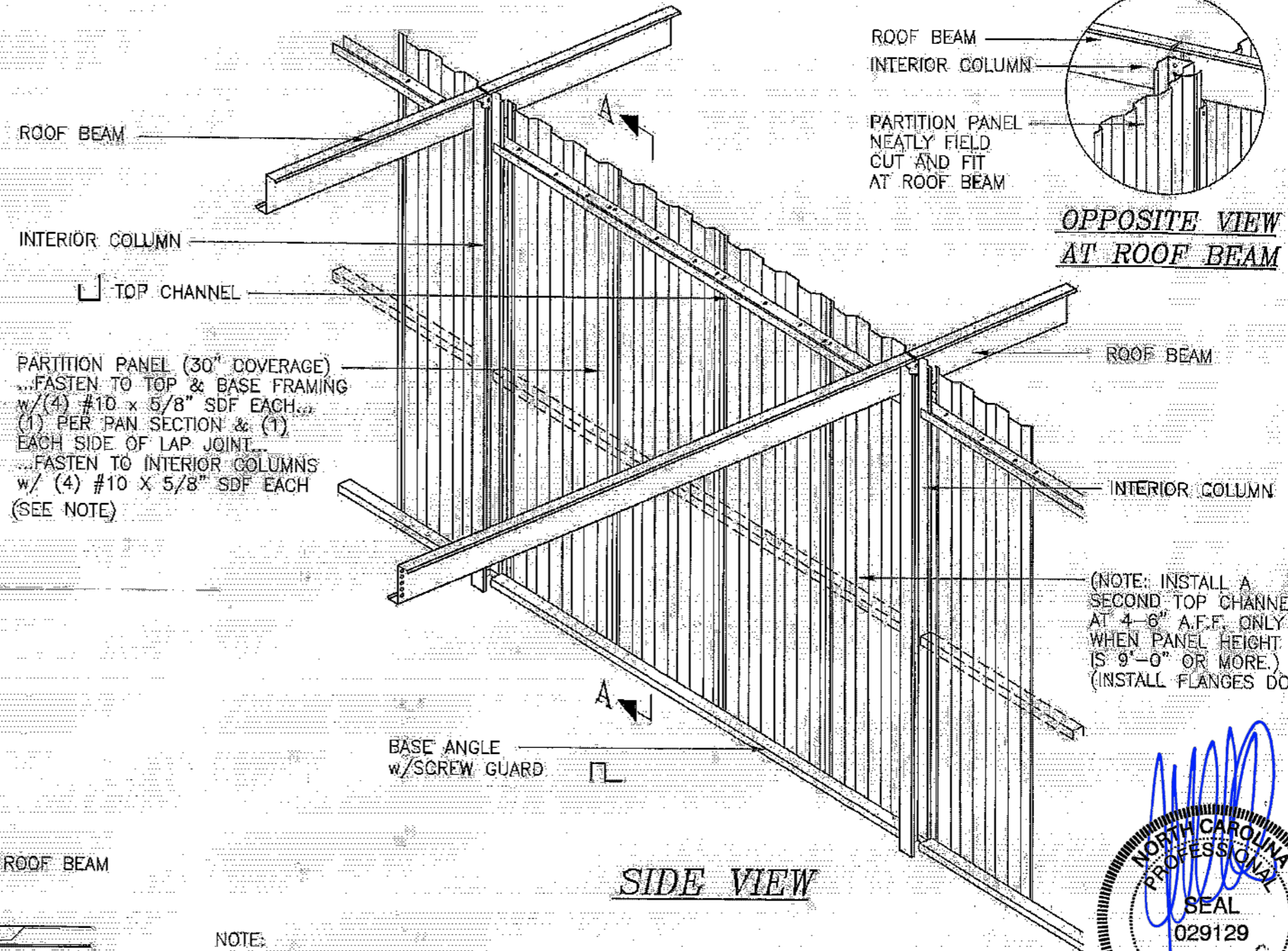




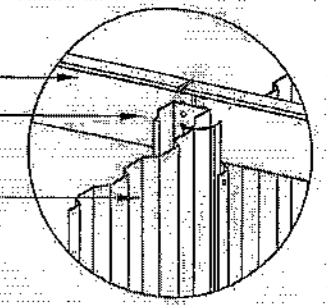
SECTION A-A



PLAN VIEW



SIDE VIEW



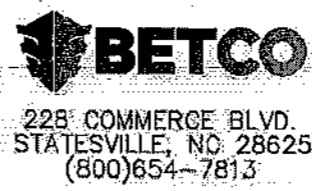
OPPOSITE VIEW AT ROOF BEAM

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.



JUN 10 2024

REVISIONS	DATE	BY
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	5/7/99	CJG



SHEET TITLE: Partition - Interior Column to Interior Column (all eave heights)		
DRAWN BY: J POPE	APPROVED BY:	DRAWING NUMBER: ERC203X
SCALE: NTS	DATE: 6/22/98	

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-120
 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...

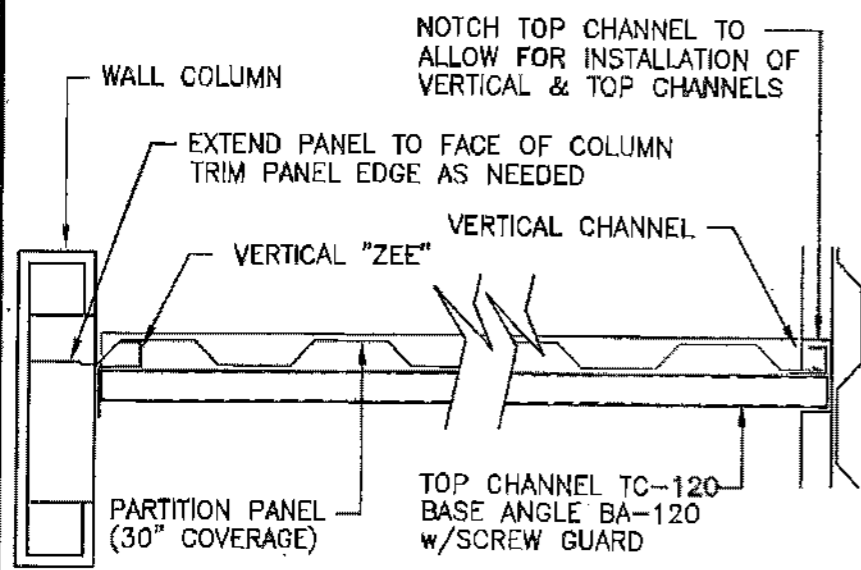
WALL COLUMN

PARTITION PANEL
 (30" COVERAGE)

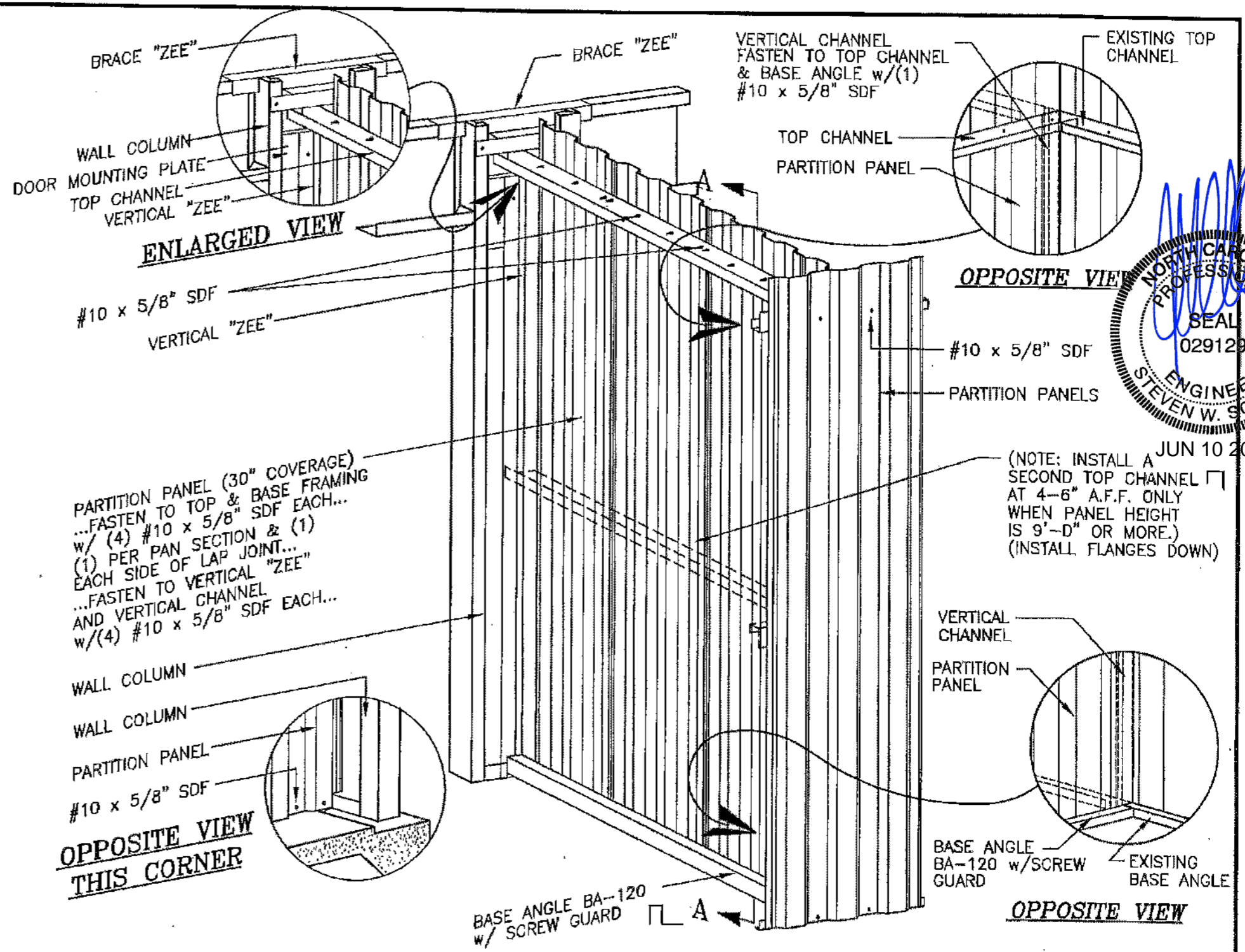
#10 x 5/8" SDF
 (4) PER PANEL @ BASE ANGLE

BASE ANGLE BA-120 w/SCREW GUARD
 "SHOOT" TO FOUNDATION
 w/(4) 7/8" POWDER
 DRIVEN FASTENERS...
 SECURE TO VERTICAL "CEE"
 w/ (1) #10 x 5/8" SDF

SECTION A-A



PLAN VIEW



SIDE VIEW

ENLARGED VIEW

#10 x 5/8" SDF
 VERTICAL "ZEE"

PARTITION PANEL (30" COVERAGE)
 ...FASTEN TO TOP & BASE FRAMING
 w/ (4) #10 x 5/8" SDF EACH...
 (1) PER PAN SECTION & (1)
 EACH SIDE OF LAP JOINT...
 ...FASTEN TO VERTICAL "ZEE"
 AND VERTICAL CHANNEL
 w/(4) #10 x 5/8" SDF EACH...

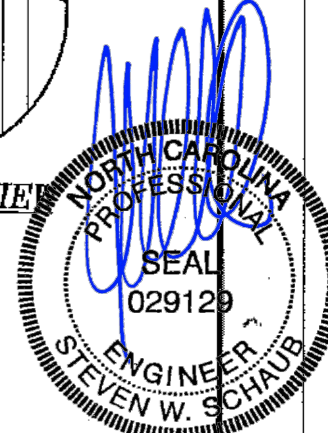
OPPOSITE VIEW THIS CORNER

OPPOSITE VIEW

#10 x 5/8" SDF
 PARTITION PANELS

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

OPPOSITE VIEW

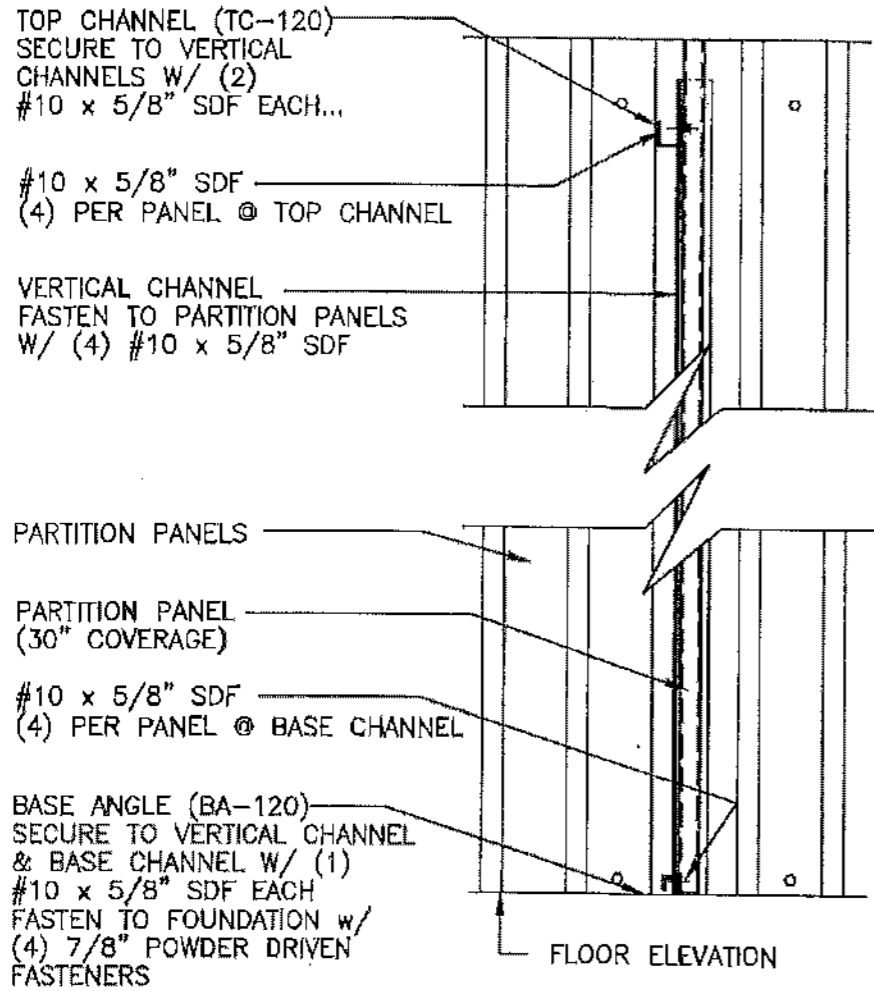


JUN 10 2024

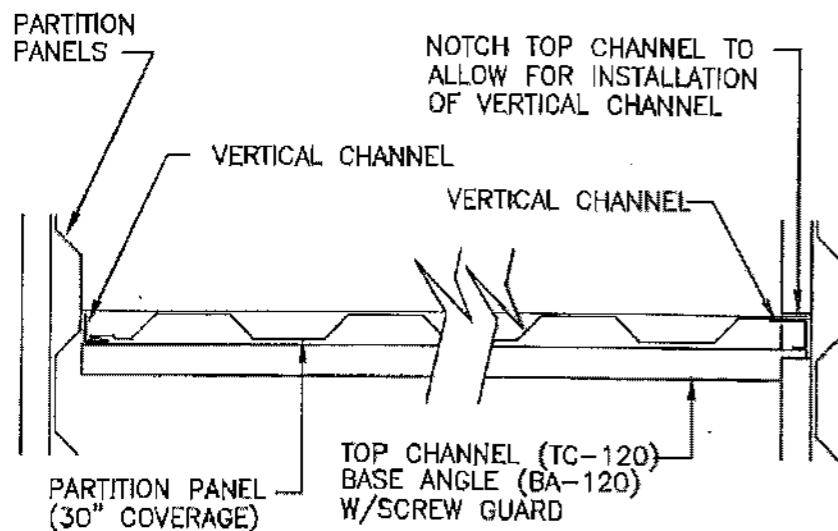
REVISIONS	DATE	BY
REVISED DIRECTION OF MID HAT CHANNEL	3/17/04	JCM
REVISED FASTENER NOTE	8/30/02	JCM
ADDED TOP CHANNEL AT PANELS OVER 9'-0"	2/7/02	BDL
GENERAL REVISIONS	4/2/01	TLR
GENERAL REVISIONS	5/6/99	CWM
GENERAL REVISIONS	6/23/98	CJG

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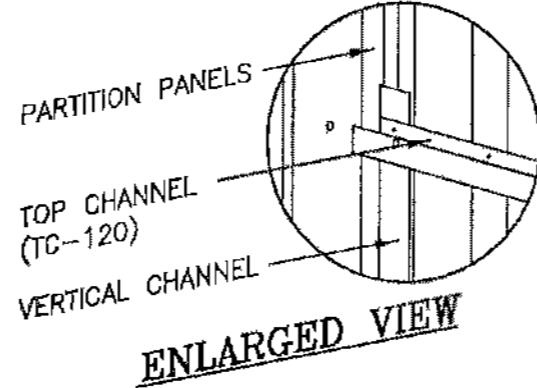
SHEET TITLE: Partition - Endwall Column to Interior Partition		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC207X
SCALE: NTS	DATE: 6/24/94	



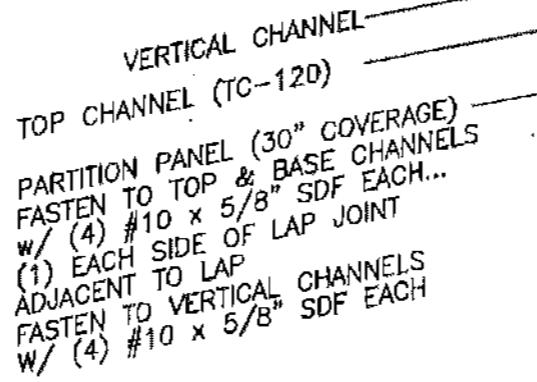
SECTION A-A



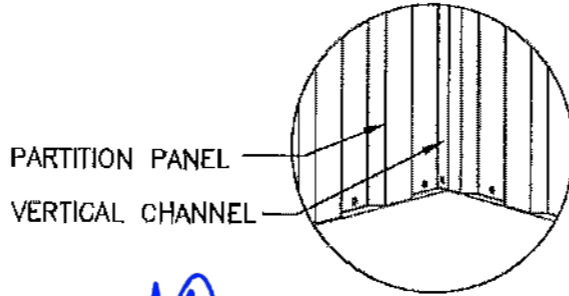
PLAN VIEW



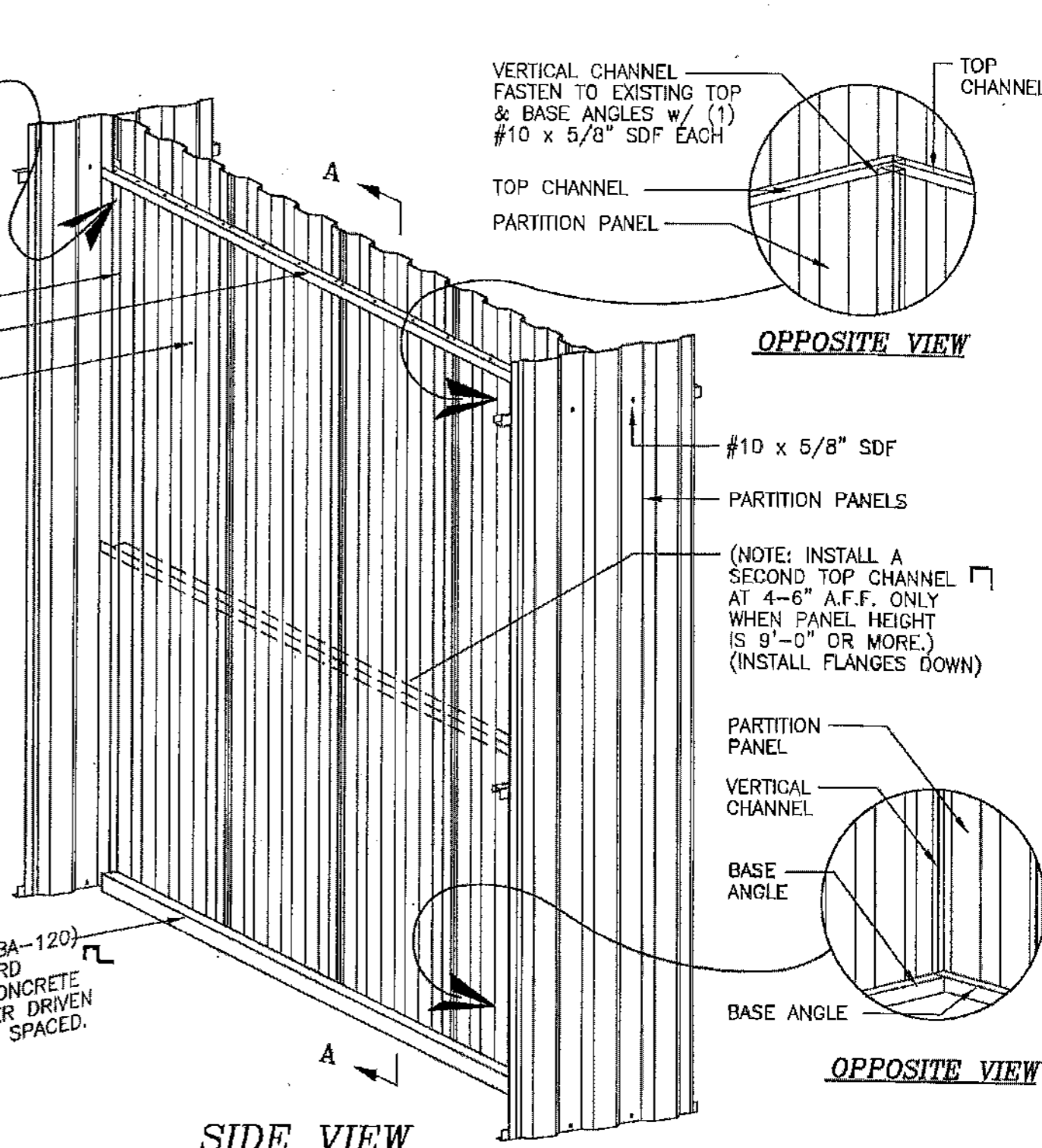
ENLARGED VIEW



OPPOSITE VIEW THIS CORNER



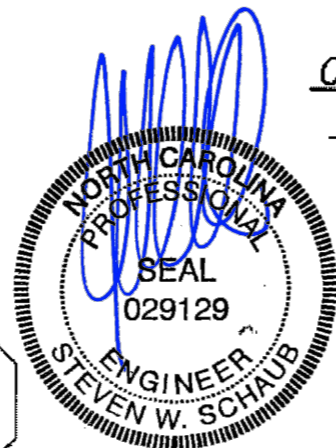
OPPOSITE VIEW



SIDE VIEW

OPPOSITE VIEW

OPPOSITE VIEW

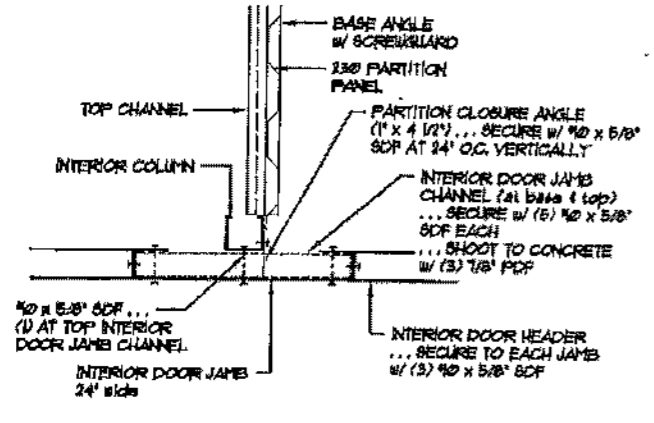


JUN 10 2024

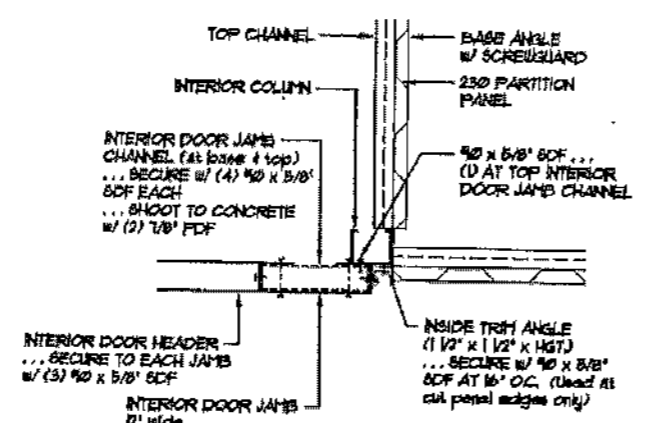
REVISIONS	DATE	BY
REVISED DIRECTION OF MID TOP CHANNEL	3/17/04	JCM
ADDED TOP CHANNEL AT PANELS OVER 8'-0"	2/7/02	BDL

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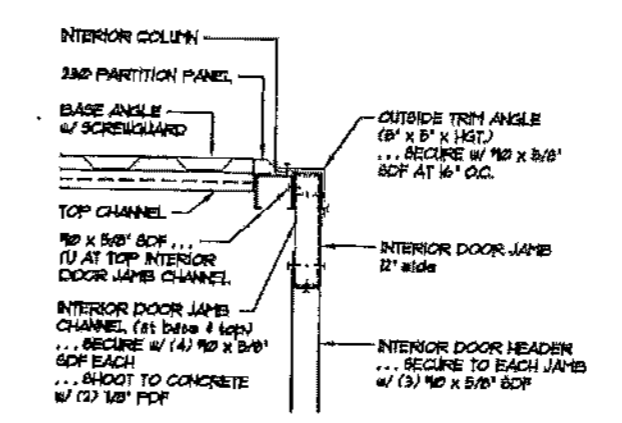
SHEET TITLE: Partition - Interior Partition to Interior Partition		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC208X
SCALE: NTS	DATE: 6/24/94	



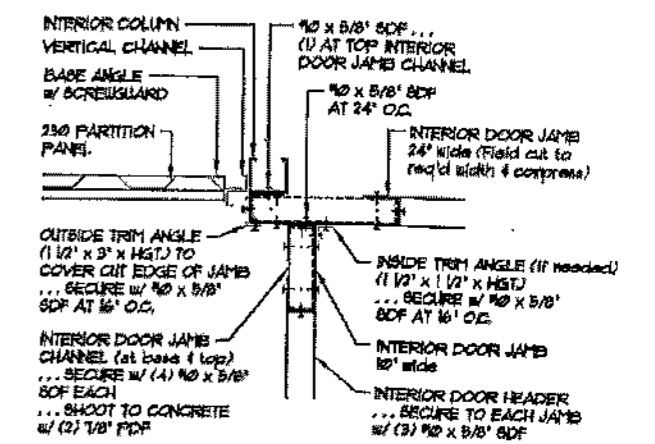
A 250 DOOR JAMB CONNECTION AT INTERIOR COLUMN



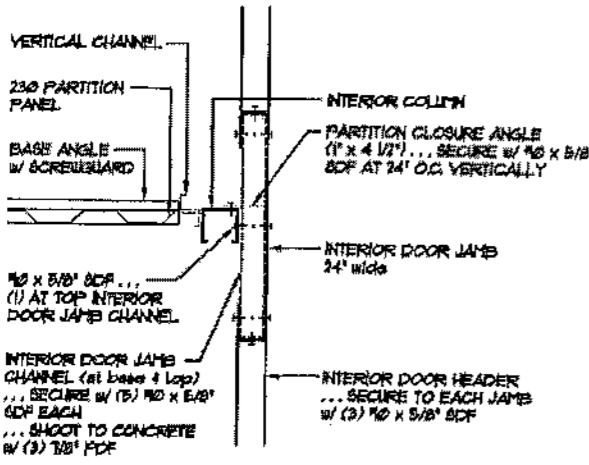
B 250 DOOR JAMB CONNECTION AT INTERIOR COLUMN AND PARTITION PANEL



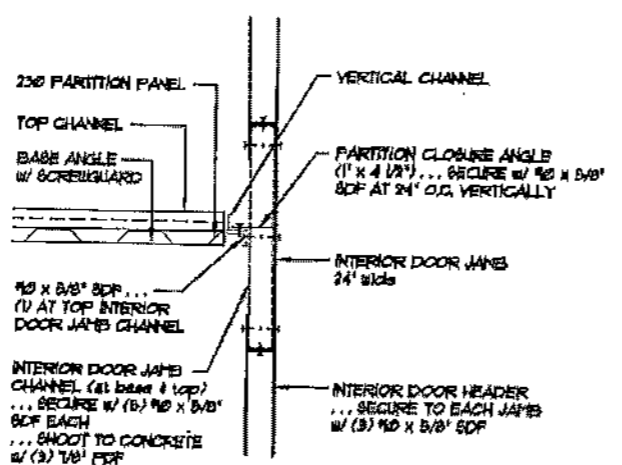
C 250 DOOR JAMB CONNECTION AT OUTSIDE CORNER



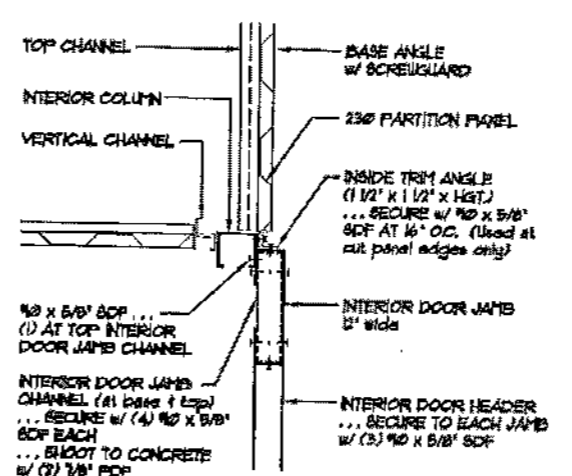
D 250 DOOR JAMB CONNECTION AT INSIDE CORNER



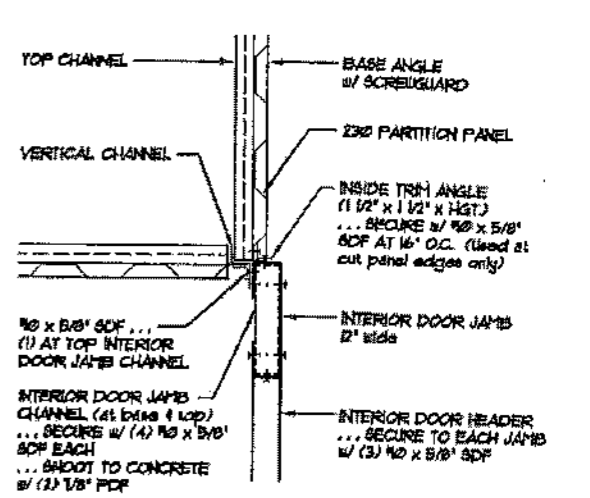
E 250 DOOR JAMB CONNECTION AT INTERIOR COLUMN



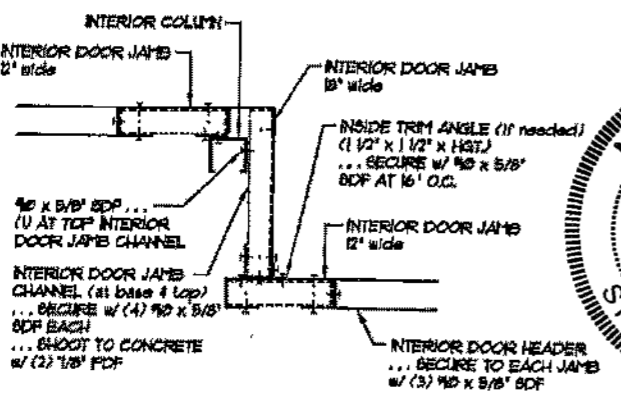
F 250 DOOR JAMB CONNECTION AT VERTICAL CHANNEL



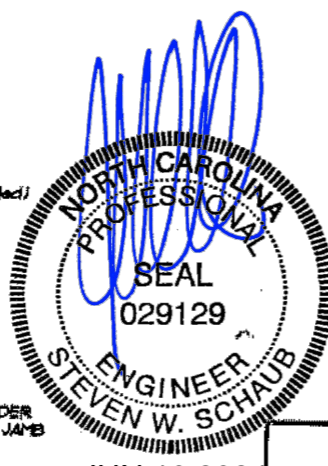
G 250 DOOR JAMB CONNECTION AT INTERIOR COLUMN AND PARTITION PANEL



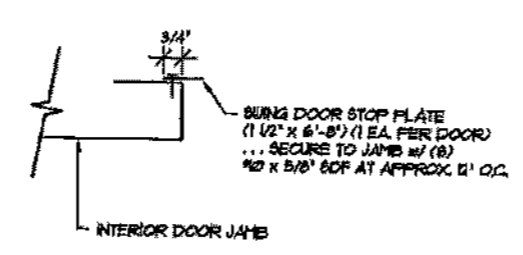
H 250 DOOR JAMB CONNECTION AT VERTICAL CHANNEL AND PARTITION PANEL



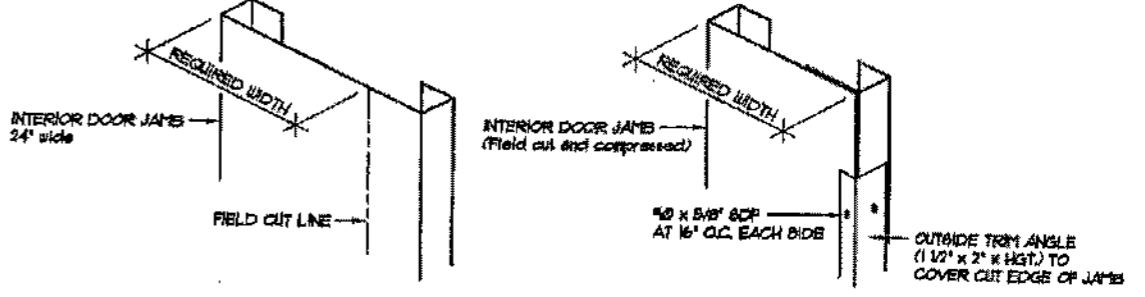
I 250 DOOR JAMB CONNECTION AT 18' CORRIDOR OFFSET



JUN 10 2024



DETAIL FOR THE ADDITION OF DOOR STOPS AT AN INTERIOR SWING DOOR

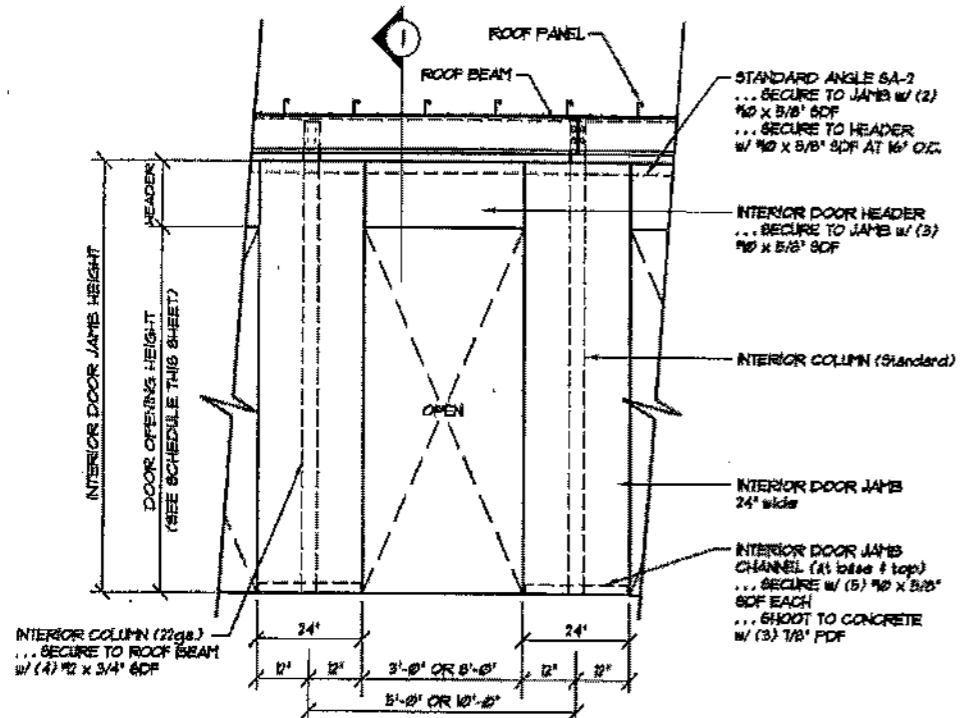


DETAIL FOR THE FIELD CUTTING AND COMPRESSION OF INTERIOR DOOR JAMBS

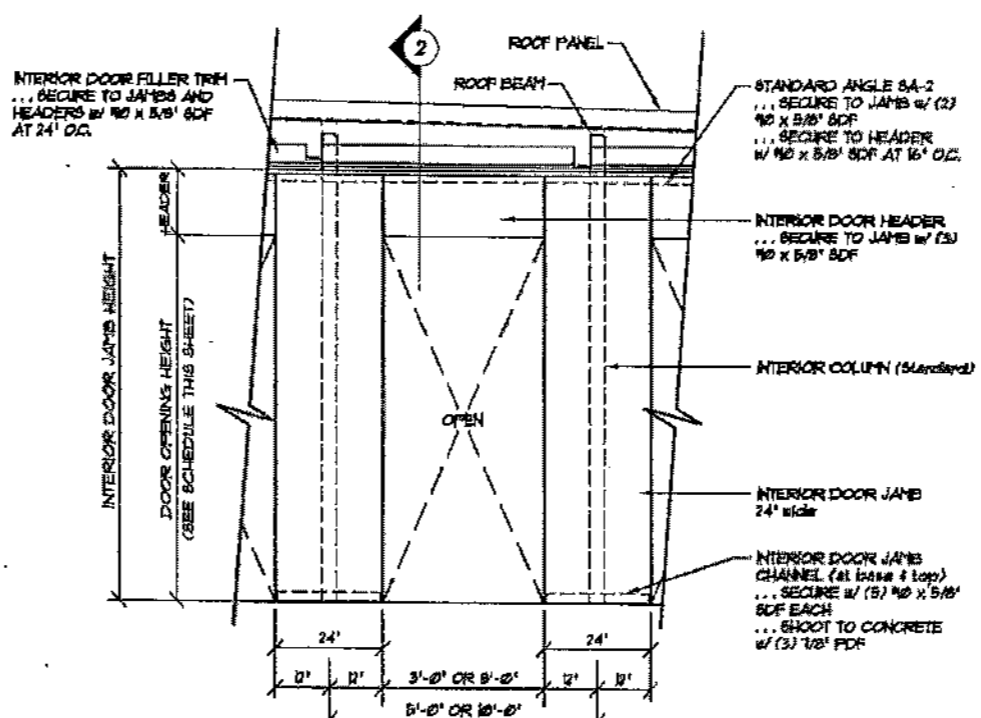
REVISIONS	DATE	BY
REVISED DOOR STOP DETAIL	1/26/09	BDL
ADDED DETAIL " I / 250 "	8/10/06	BDL
ADDED PARTITION CLOSURE ANGLES	10/26/01	BDL
ADDED FIELD CUT/COMPRESS DETAIL	2/8/01	BDL

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SHEET TITLE: Typical Interior Corridor Details		
DRAWN BY: BDL	APPROVED BY:	DRAWING NUMBER: ERC250X
SCALE: NTS	DATE: 9/7/00	



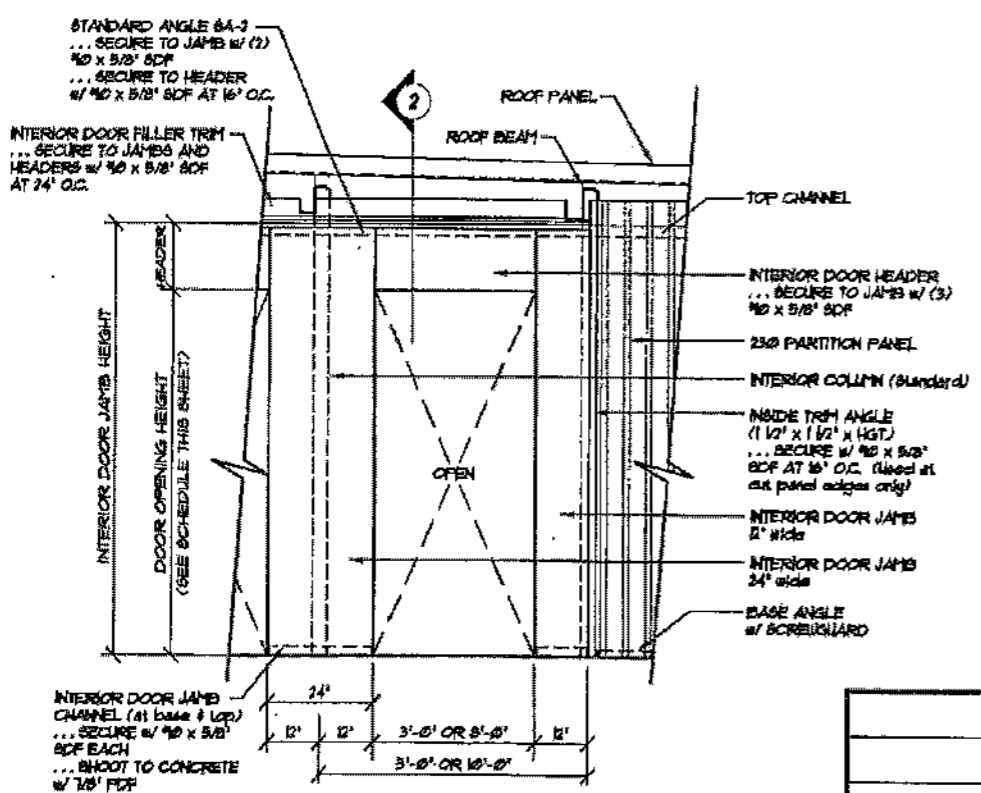
A
252
**ELEVATION OF INTERIOR DOOR FRAMING
PARALLEL TO ROOF BEAM**



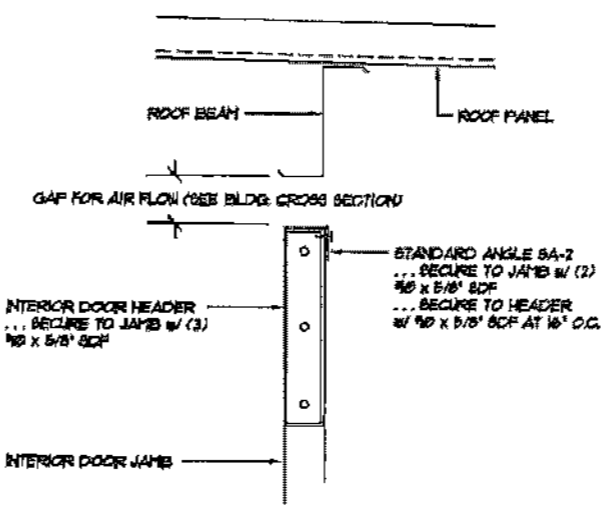
B
252
**ELEVATION OF INTERIOR DOOR FRAMING
PERPENDICULAR TO ROOF BEAM**

NOTES:
Roof insulation is not shown for clarity.
See ERC2B0X for installation of door
stops at swing doors.

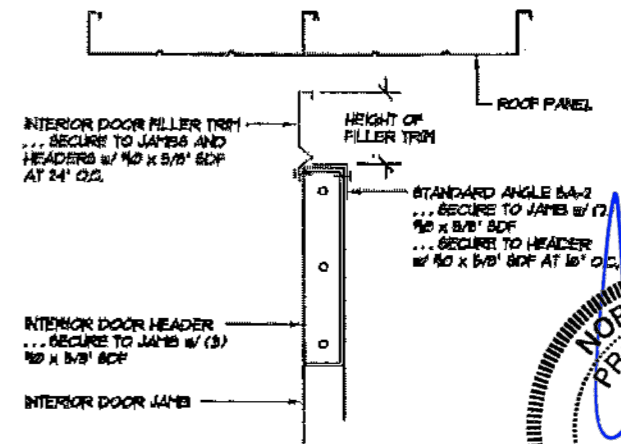
DOOR OPENING HEIGHT SCHEDULE (Note: See Floor Plans to determine interior door heights)		
INTERIOR DOOR HEIGHT	ROLL-UP DOOR OPENING HEIGHT	SWING DOOR OPENING HEIGHT
6'-8"	6'-8"	6'-9 1/2"
7'-0"	7'-0"	7'-1 1/2"



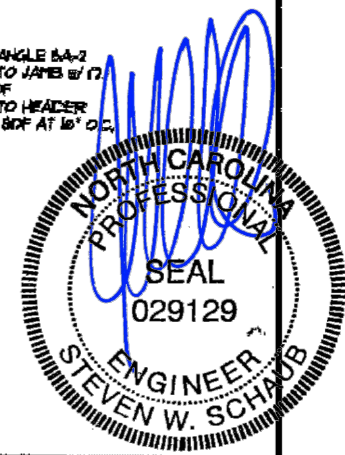
C
252
**ELEVATION OF INTERIOR DOOR FRAMING
PERPENDICULAR TO ROOF BEAM
WITH ADJOINING PARTITION PANELS**



SECTION '1'



SECTION '2'

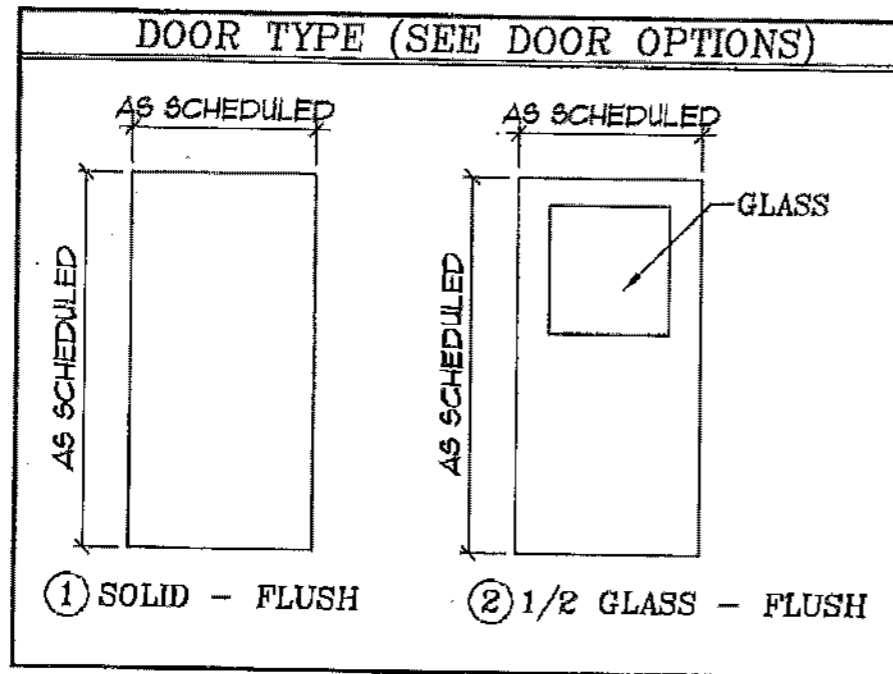


REVISIONS	DATE	BY
REVISED DUE TO DOOR HEIGHT CHANGE	4/7/05	BDL

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SHEET TITLE: Interior Corridor Elevations		
DATE: JUN 10 2024	DRAWN BY: BDL	APPROVED BY:
SCALE: NTS	DATE: 9/7/00	DRAWING NUMBER: ERC252X

DOOR SCHEDULE						
DOOR NUMBER	WIDTH	HEIGHT	DOOR THICK	DOOR TYPE	HARDWARE DESCRIPTION	REMARKS
3068	3'-0"	6'-8"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3688	3'-6"	6'-8"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
4068	4'-0"	6'-8"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3068	3'-0"	6'-8"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3688	3'-6"	6'-8"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
4068	4'-0"	6'-8"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3070	3'-0"	7'-0"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3670	3'-6"	7'-0"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
4070	4'-0"	7'-0"	1 3/4"	1	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3070	3'-0"	7'-0"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
3670	3'-6"	7'-0"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD
4070	4'-0"	7'-0"	1 3/4"	2	LEVER/LEVER LOCKSET	SELF LATCHING WITH CLOSER & THRESHOLD



DOOR OPTIONS	
OPTIONS	
L	LOUVER (12" x 12")
FL	RATED LOUVER (12" x 12")
P	PANIC HARDWARE
K	KICKPLATE
PP	PUSH PLATE/PULL PLATE
G	20 x 24 INSULATED 1" THERMOPLANE INSERT
FG	10 x 10 UL APPROVED GLASS INSERT
A	THREE HOUR RATED
B	ONE HOUR RATED



JUN 10 2024

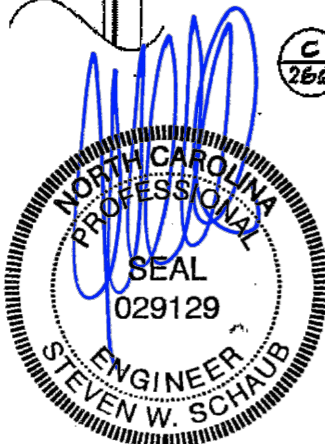
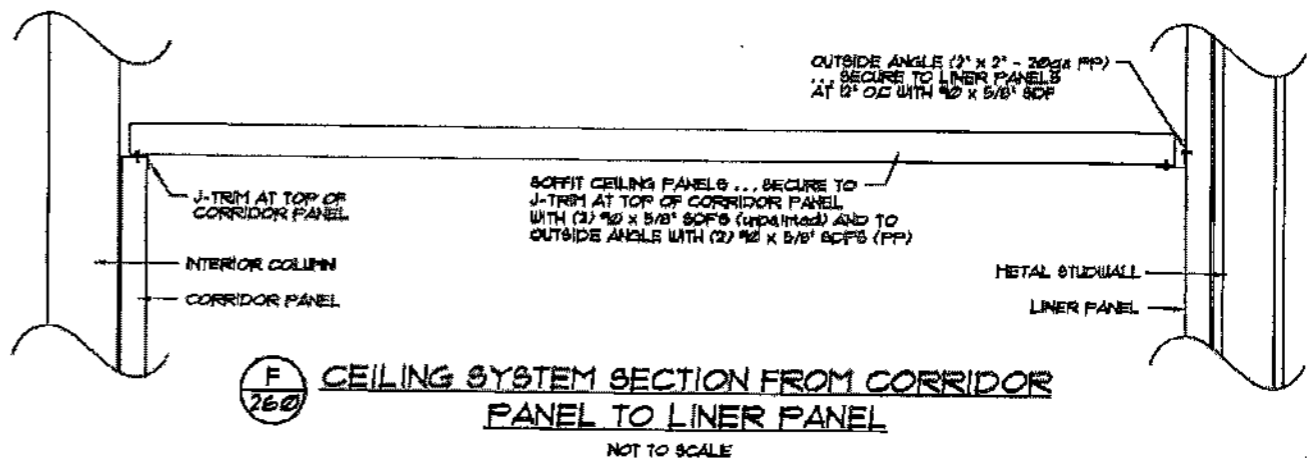
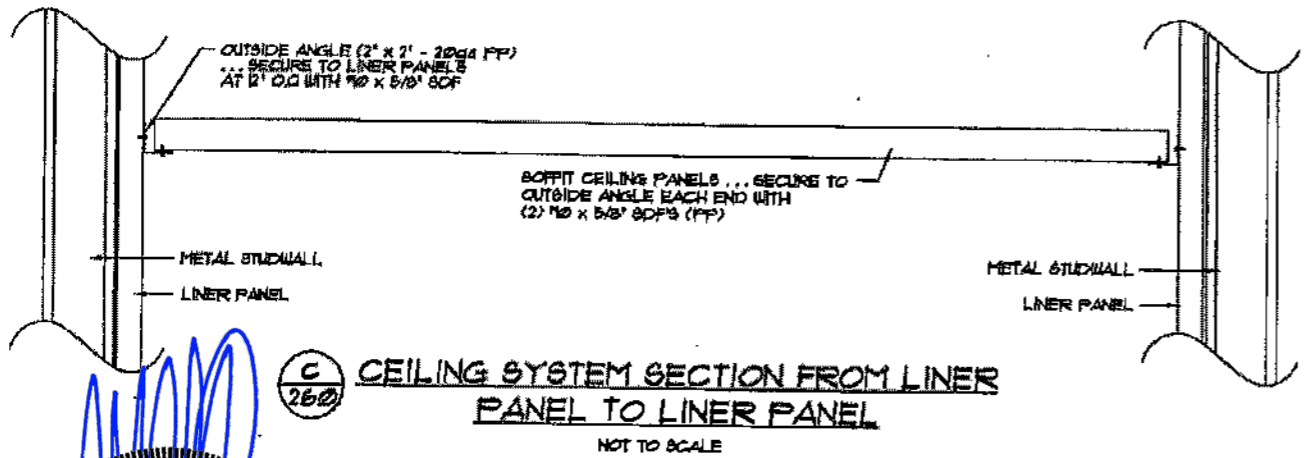
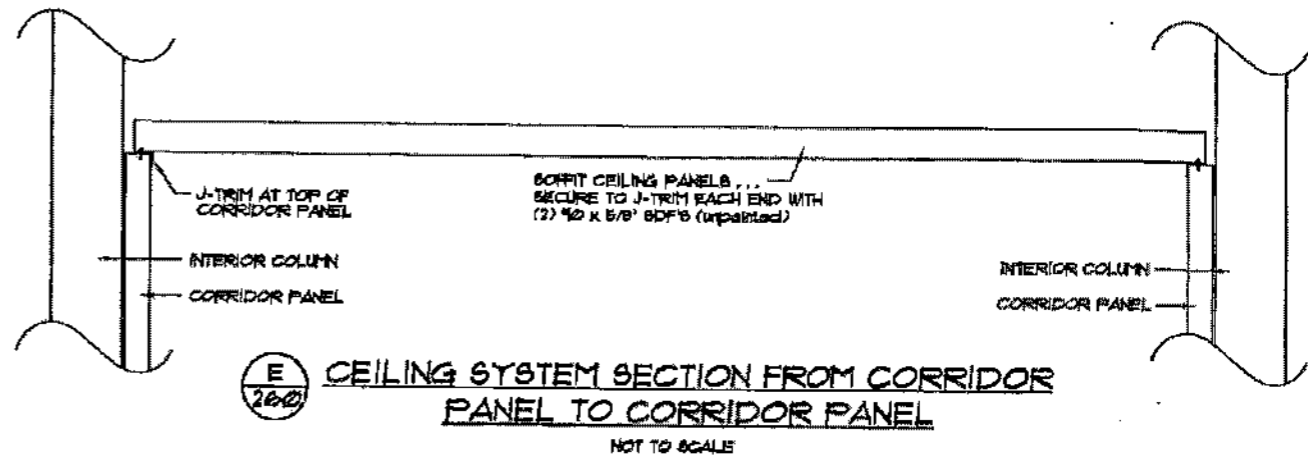
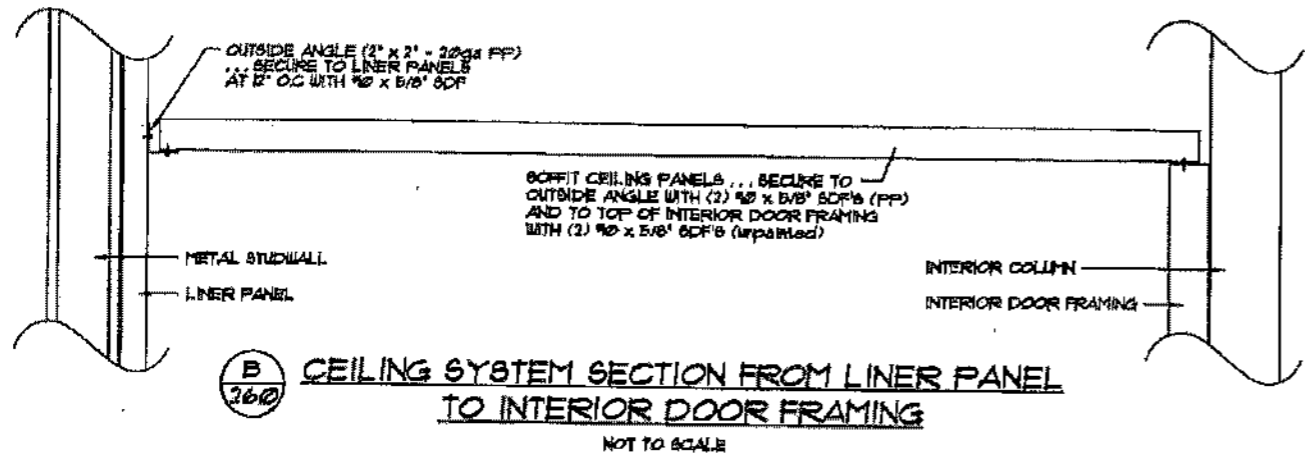
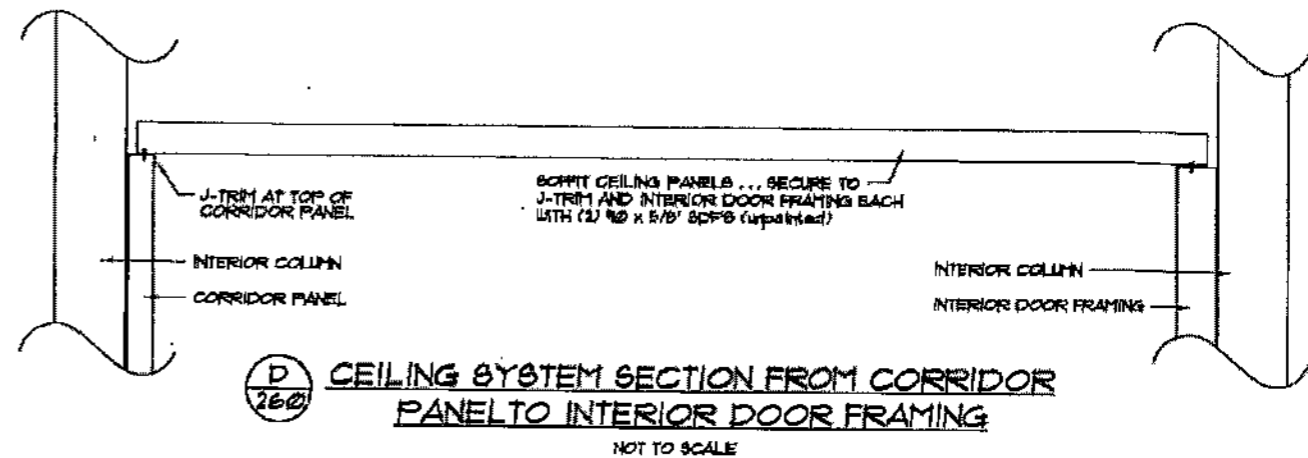
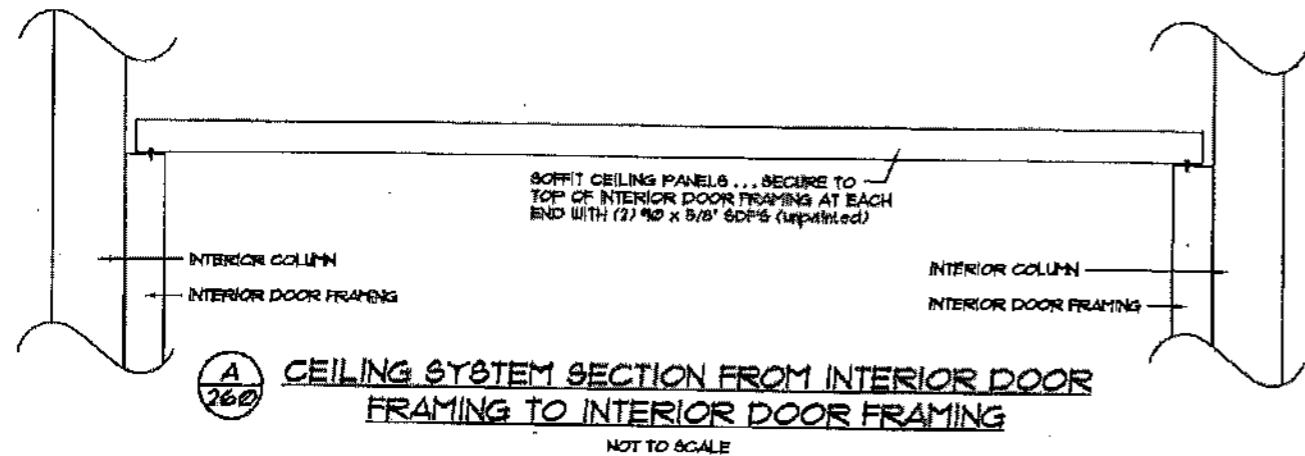
DOOR DOOR
NUMBER TYPE OPTIONS
EXAMPLE: 3068 - 2 - L,K,P,G

THIS IS A 3'-0" x 6'-8" - 1/2 GLASS PERSONNEL DOOR WITH 20 x 24 GLASS, LOUVER, KICKPLATE AND PANIC HARDWARE.

REVISIONS	DATE	BY
REVISED 'A' TO THREE HOUR RATED	11/29/11	JCM
REVISED DUE TO DOOR HEIGHT CHANGE	4/1/05	BDL

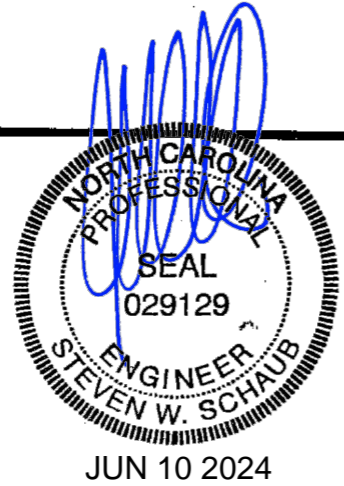
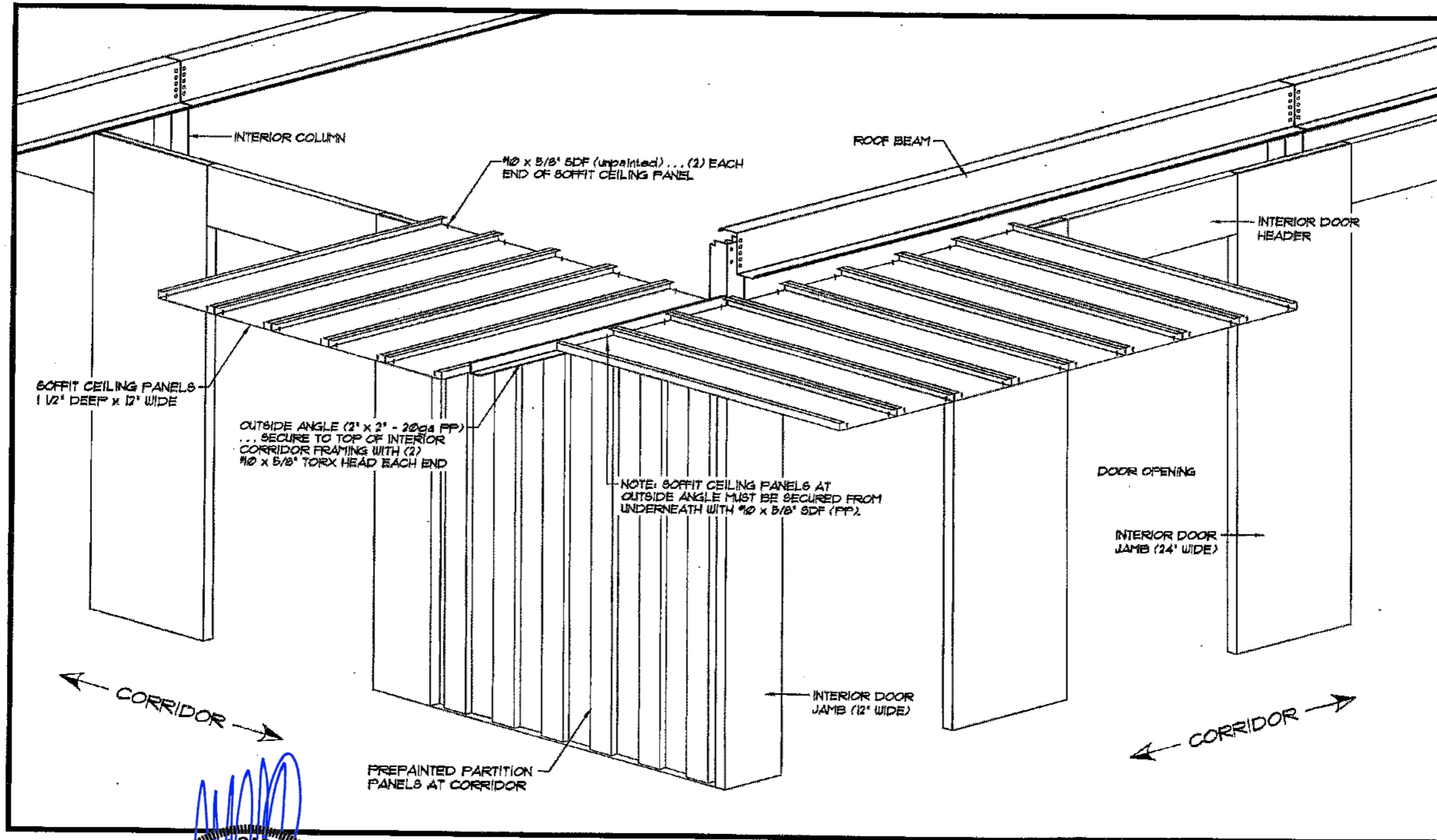
BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800)654-7813

SHEET TITLE:		
Standard Swing Door Hardware Schedule		
DRAWN BY:	APPROVED BY:	DRAWING NUMBER:
JRB		ERC254X
SCALE:	DATE:	
NTS	3/7/01	

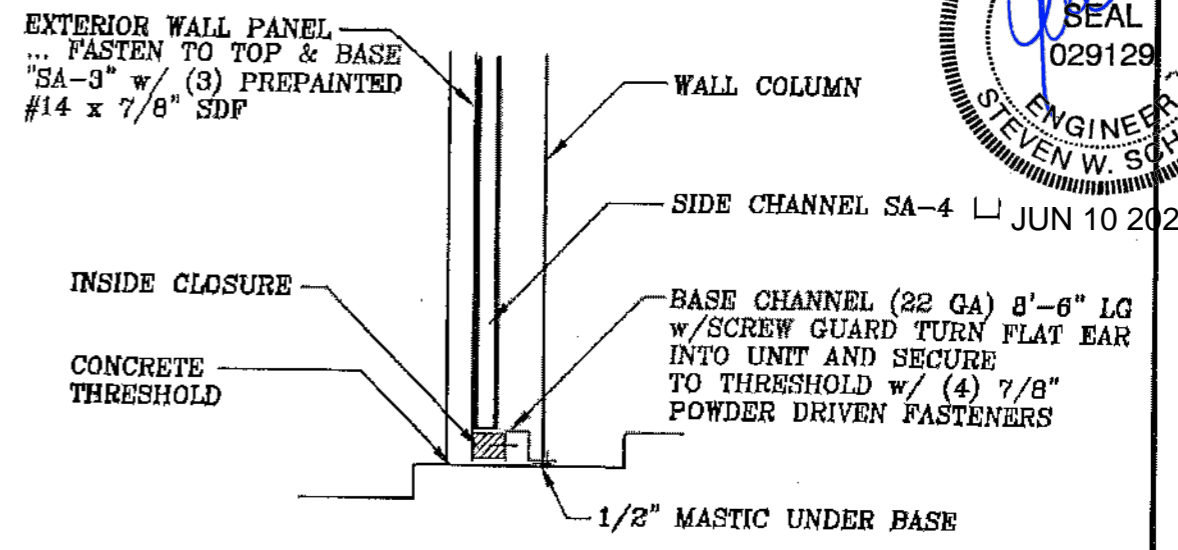
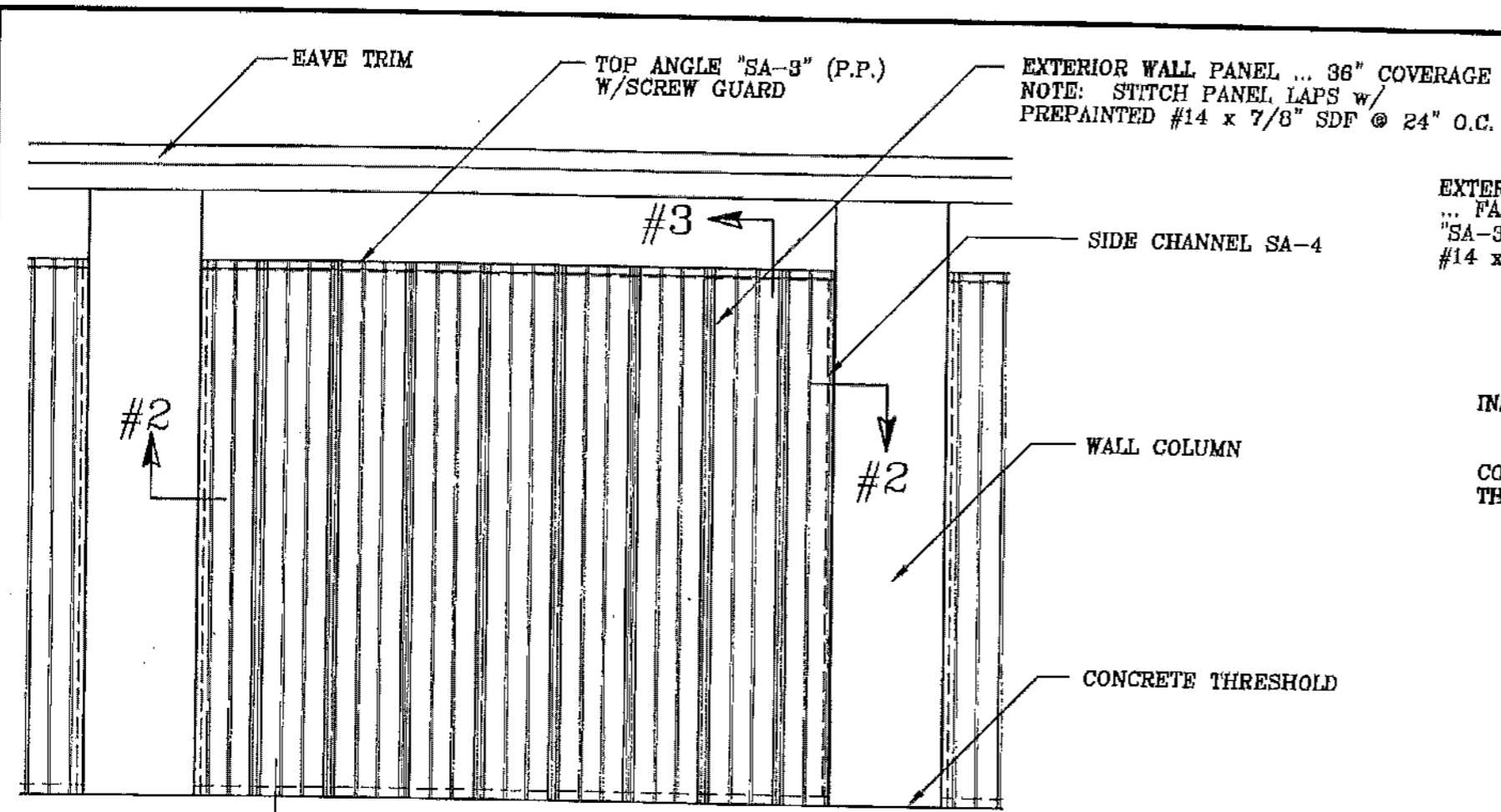


JUN 10 2024

			<p>BETCO</p> <p>228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)854-7813</p>	SHEET TITLE:		Soffit Ceiling System	
				DRAWN BY:	APPROVED BY:	DRAWING NUMBER:	
			SCALE:	DATE:	ERC260X		
REVISIONS			DATE	BY			

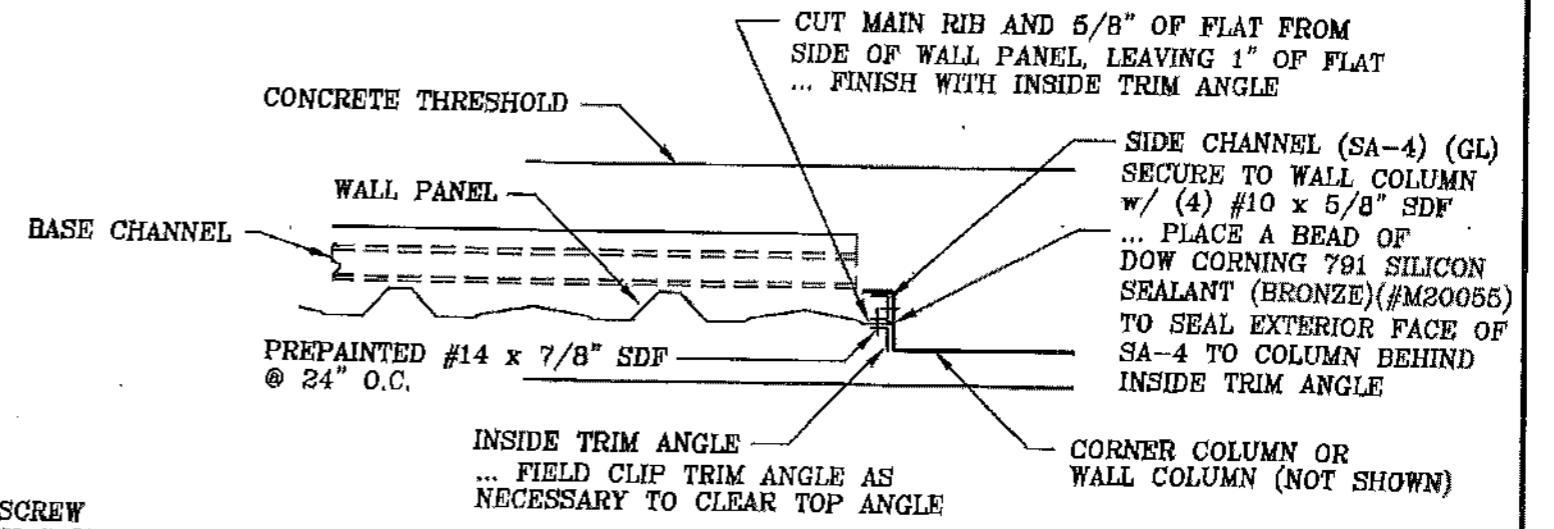


<p>REVISIONS</p>			<p>DATE</p>		<p>BY</p>		<p>BETCO</p> <p>228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)854-7813</p>	<p>SHEET TITLE: Soffit Ceiling System Corner Detail</p>	
<p>GENERAL REVISION</p>			<p>12/6/12</p>		<p>BDL</p>			<p>DRAWN BY: BDL</p>	<p>APPROVED BY:</p>
							<p>SCALE: NTS</p>	<p>DATE: 2/20/09</p>	

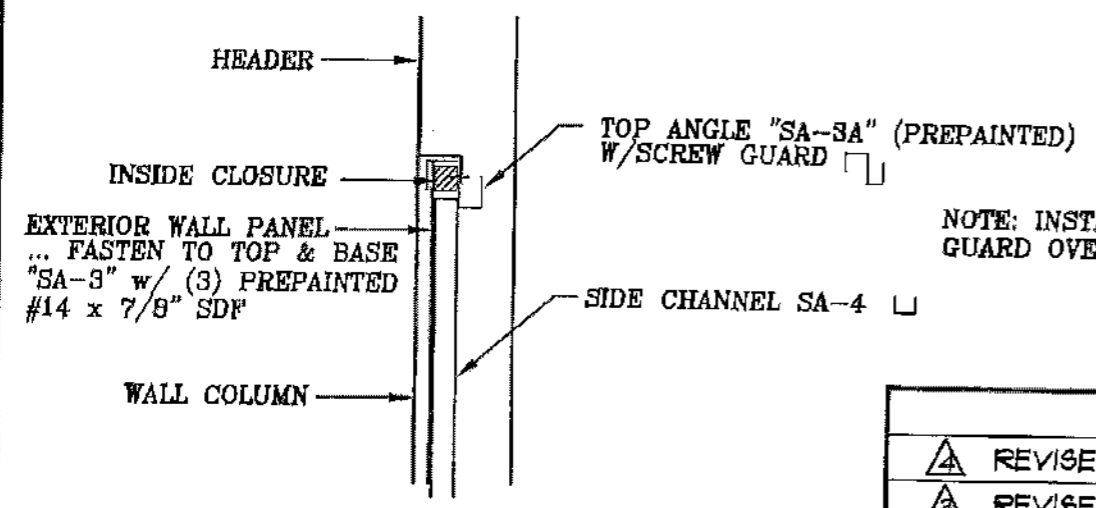


SECTION #1

EXTERIOR WALL PANEL INSTALLATION DETAILS



SECTION #2



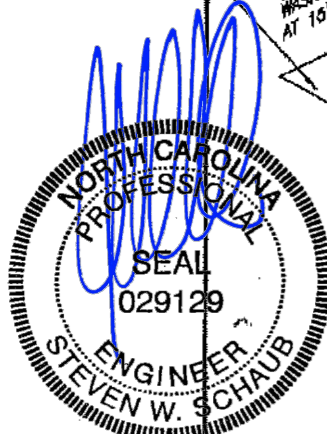
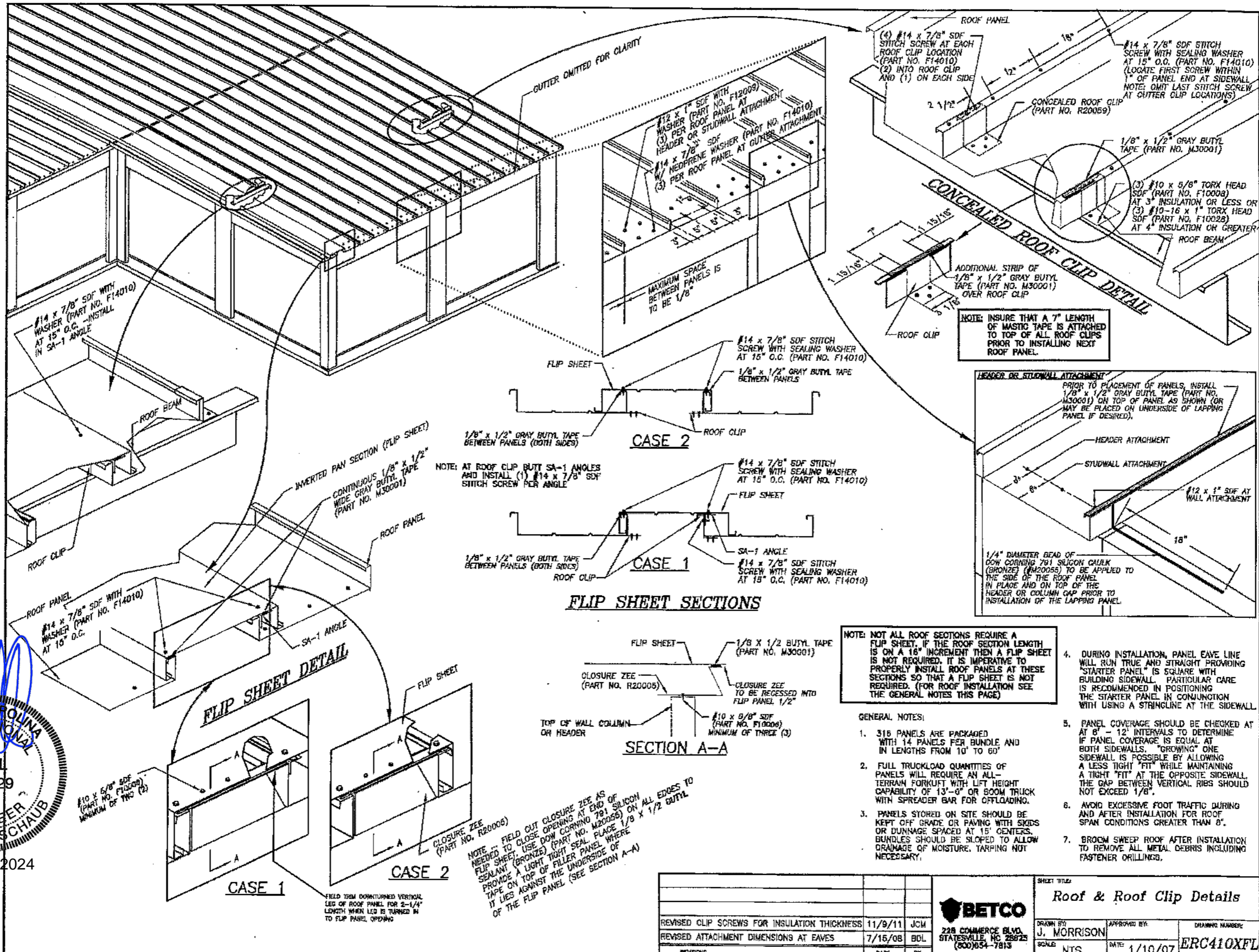
SECTION #3

NOTE: INSTALL WALL PANEL SCREW GUARD OVER EXPOSED STITCH SCREWS

REVISIONS	DATE	BY
△ REVISED BASE CHANNEL GAGE	2-26-13	DPP
△ REVISED SECTION #2	10-18-04	BDL
△ GENERAL REVISIONS	3-24-99	FOX
△ GENERAL REVISIONS	3-9-99	FOX

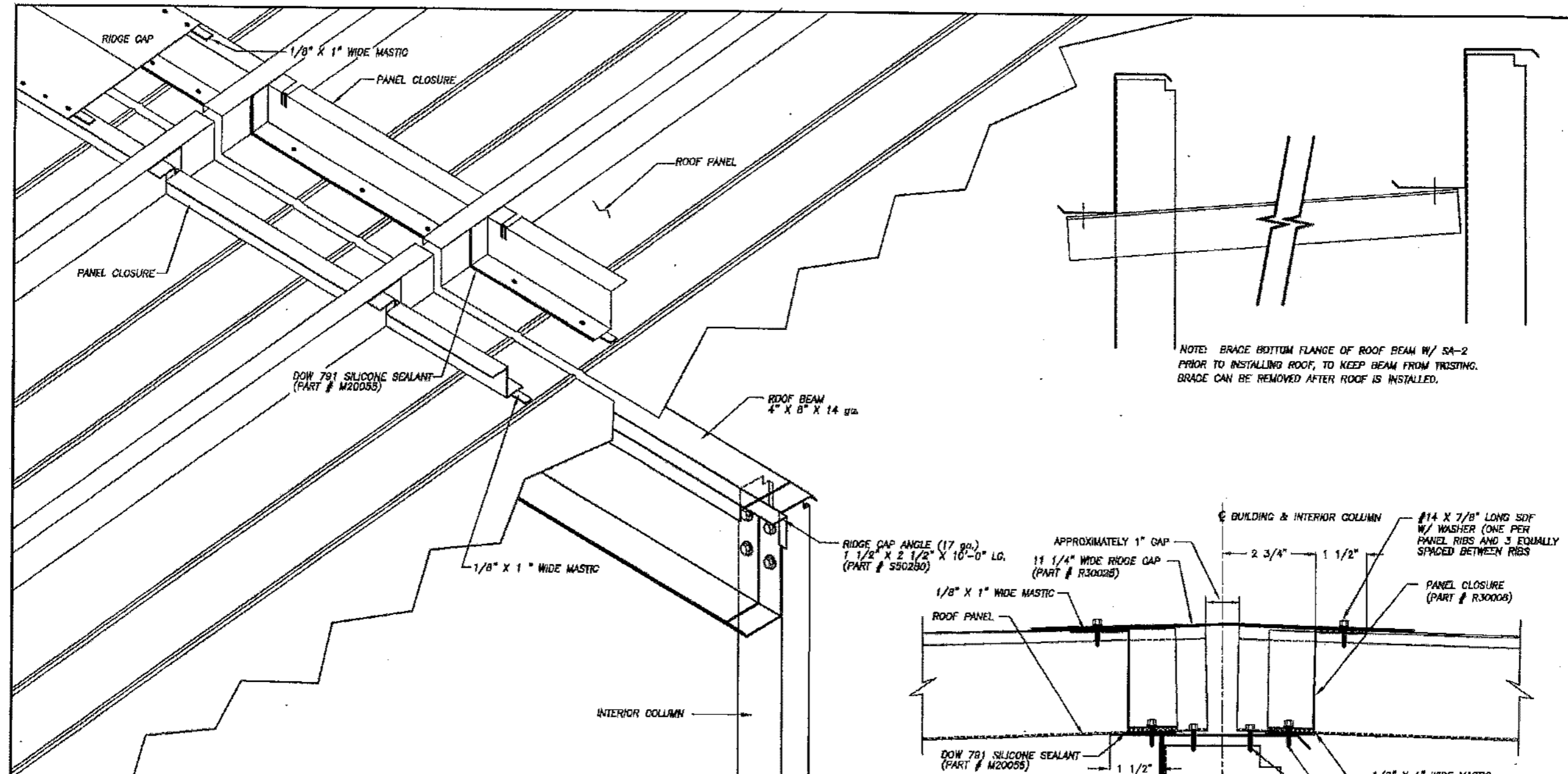
BETCO
228 COMMERCE BLVD.
STATESVILLE, NC 28625
(800)654-7813

SHEET TITLE: EXTERIOR WALL PANEL INSTALLATION @ 8'-3" WALL COLUMN w/ 8'-8 LG. HEADER		
DRAWN BY: J Pope	APPROVED BY:	DRAWING NUMBER: ERC302X
SCALE: 1/2" = 1'-0"	DATE: 6/27/94	

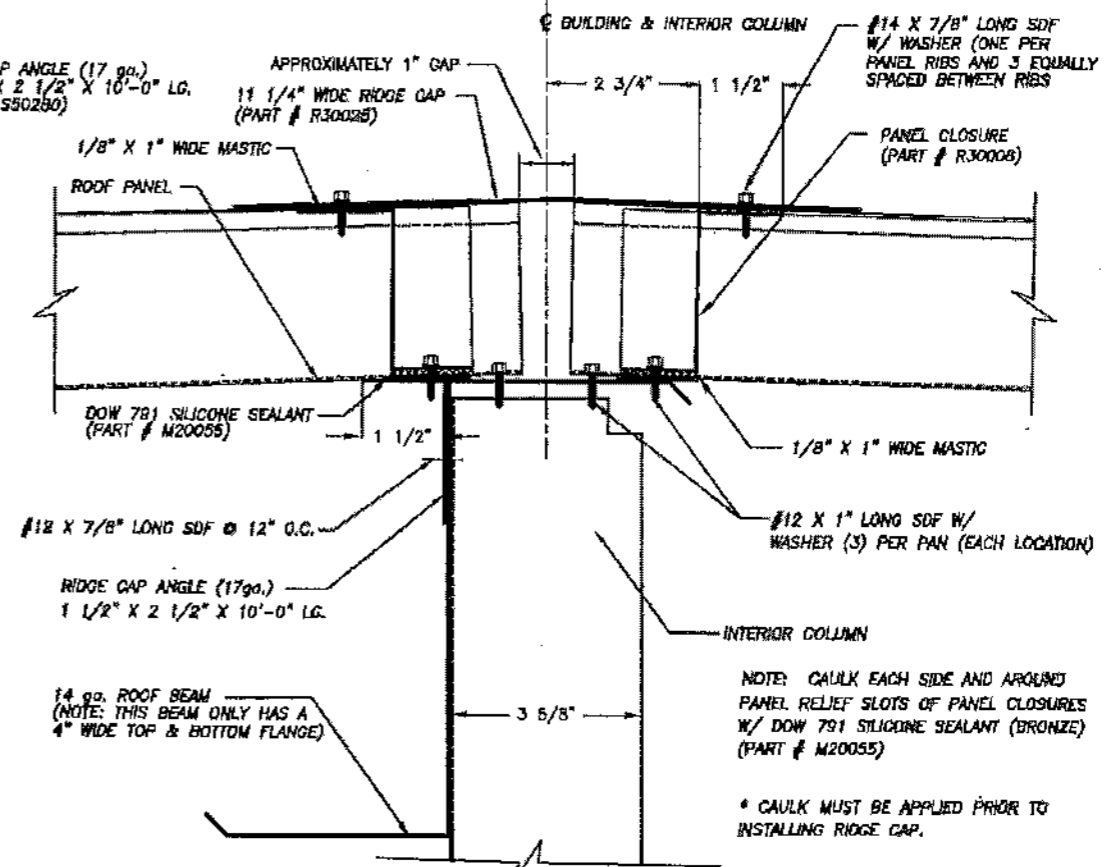
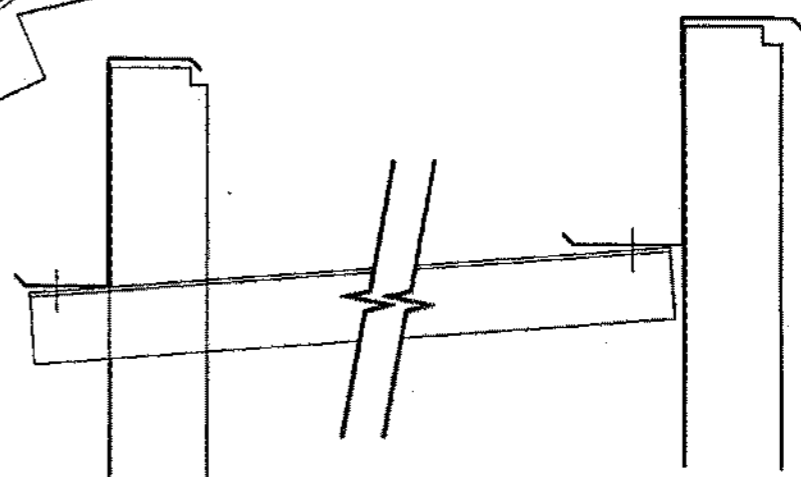


JUN 10 2024

REVISIONS		DATE	BY	 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	SHEET TITLE	
REVISOR		DATE	BY		Roof & Roof Clip Details	
REVISED CLIP SCREWS FOR INSULATION THICKNESS	11/9/11	JCM		DRAWN BY	APPROVED BY	DRAWING NUMBER
REVISED ATTACHMENT DIMENSIONS AT EAVES	7/15/08	BOL		J. MORRISON		ERC410XFL
				SCALE	DATE	
				NTS	1/10/07	



RIDGE ASSEMBLY



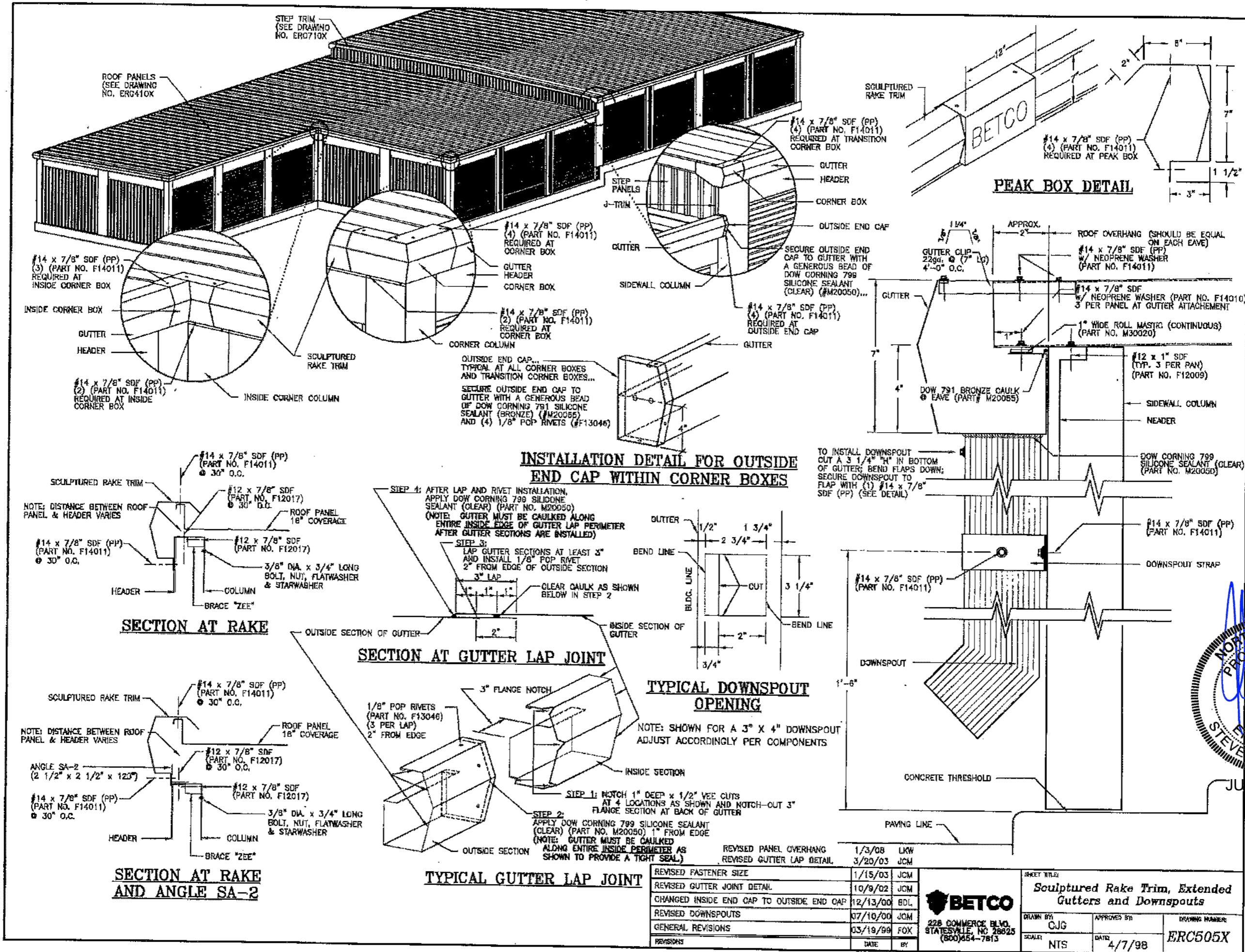
SECTION @ RIDGE CAP



JUN 10 2024

ADDED SCREWS FOR CLARITY	1/16/04	JCM	BETCO 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	DRAMA BY:	JHP	APPROVED BY:		DRAWING NUMBER:	ERC420X
REVISED INTERIOR COLUMN SIZE	8/30/02	JCM		SCALE:	NTS	DATE:	12/17/98		
GENERAL REVISIONS	3/28/00	BDL							
CHANGED FROM CLEAR TO BRONZE SEALANT	8/11/98	JHP							
REVISED SECTION @ RIDGE CAP	7/14/88	JHP							
REVISIONS	DATE	BY							

NOTE: CAULK EACH SIDE AND AROUND PANEL RELIEF SLOTS OF PANEL CLOSURES W/ DOW 791 SILICONE SEALANT (BRONZE) (PART # M20055)
 * CAULK MUST BE APPLIED PRIOR TO INSTALLING RIDGE CAP.



#14 x 7/8" SDF (PP) (3) (PART NO. F14011) REQUIRED AT INSIDE CORNER BOX

GUTTER HEADER

#14 x 7/8" SDF (PP) (2) (PART NO. F14011) REQUIRED AT INSIDE CORNER BOX

INSIDE CORNER COLUMN

#14 x 7/8" SDF (PP) (4) (PART NO. F14011) REQUIRED AT CORNER BOX

GUTTER HEADER CORNER BOX

#14 x 7/8" SDF (PP) (2) (PART NO. F14011) REQUIRED AT CORNER BOX

CORNER COLUMN

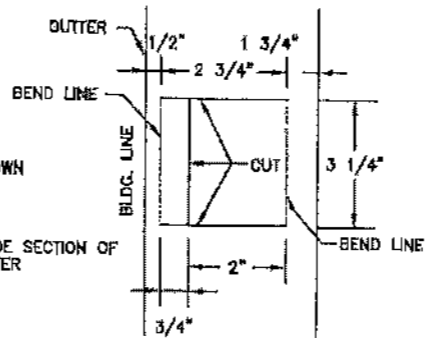
OUTSIDE END CAP... TYPICAL AT ALL CORNER BOXES AND TRANSITION CORNER BOXES... SECURE OUTSIDE END CAP TO GUTTER WITH A GENEROUS BEAD OF DOW CORNING 799 SILICONE SEALANT (BRONZE) (#M20055) AND (4) 1/8" POP RIVETS (#F13046)

INSTALLATION DETAIL FOR OUTSIDE END CAP WITHIN CORNER BOXES

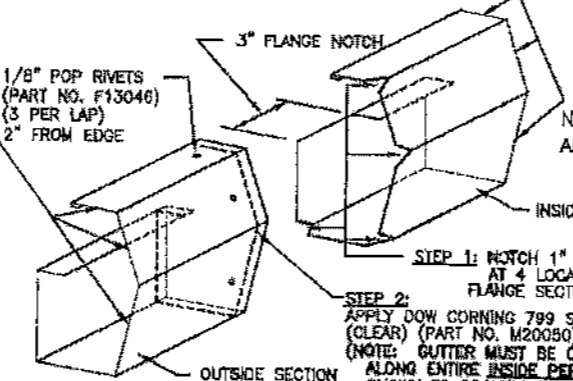
STEP 1: AFTER LAP AND RIVET INSTALLATION, APPLY DOW CORNING 799 SILICONE SEALANT (CLEAR) (PART NO. M20055) (NOTE: GUTTER MUST BE CAULKED ALONG ENTIRE INSIDE EDGE OF GUTTER LAP PERIMETER AFTER GUTTER SECTIONS ARE INSTALLED)

STEP 2: LAP GUTTER SECTIONS AT LEAST 3" AND INSTALL 1/8" POP RIVET 2" FROM EDGE OF OUTSIDE SECTION

CLEAR CAULK AS SHOWN BELOW IN STEP 2



SECTION AT GUTTER LAP JOINT



TYPICAL GUTTER LAP JOINT

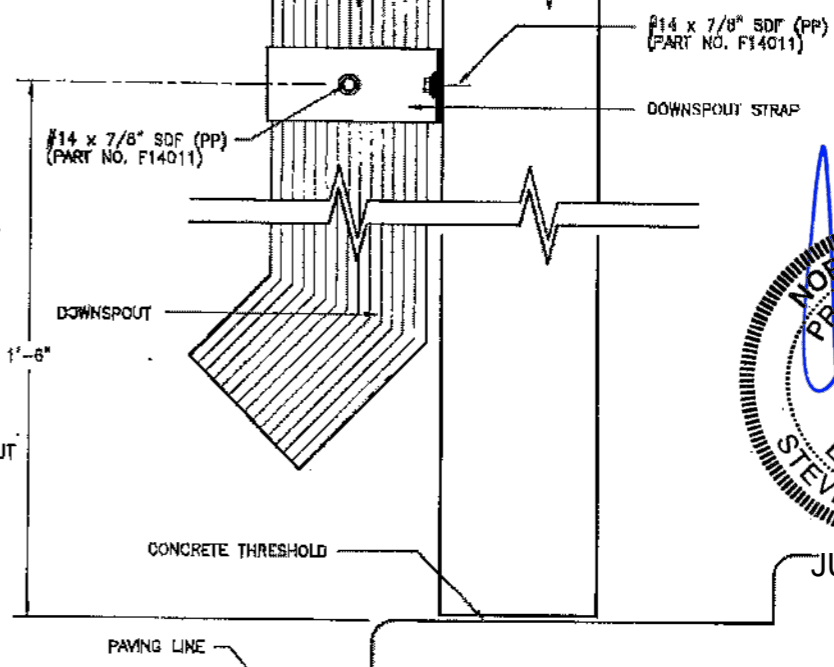
STEP 1: NOTCH 1" DEEP x 1/2" VEE CUTS AT 4 LOCATIONS AS SHOWN AND NOTCH-OUT 3" FLANGE SECTION AT BACK OF GUTTER

STEP 2: APPLY DOW CORNING 799 SILICONE SEALANT (CLEAR) (PART NO. M20055) 1" FROM EDGE (NOTE: GUTTER MUST BE CAULKED ALONG ENTIRE INSIDE PERIMETER AS SHOWN TO PROVIDE A TIGHT SEAL)

TYPICAL DOWNSPOUT OPENING

NOTE: SHOWN FOR A 3" X 4" DOWNSPOUT ADJUST ACCORDINGLY PER COMPONENTS

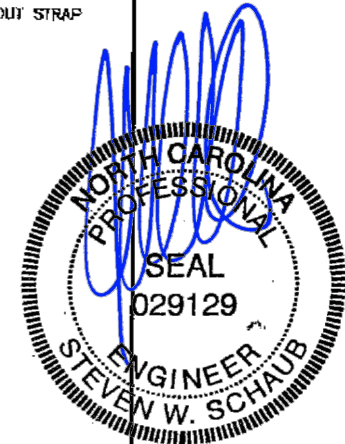
TO INSTALL DOWNSPOUT CUT A 3 1/4" "H" IN BOTTOM OF GUTTER; BEND FLAPS DOWN; SECURE DOWNSPOUT TO FLAP WITH (1) #14 x 7/8" SDF (PP) (SEE DETAIL)



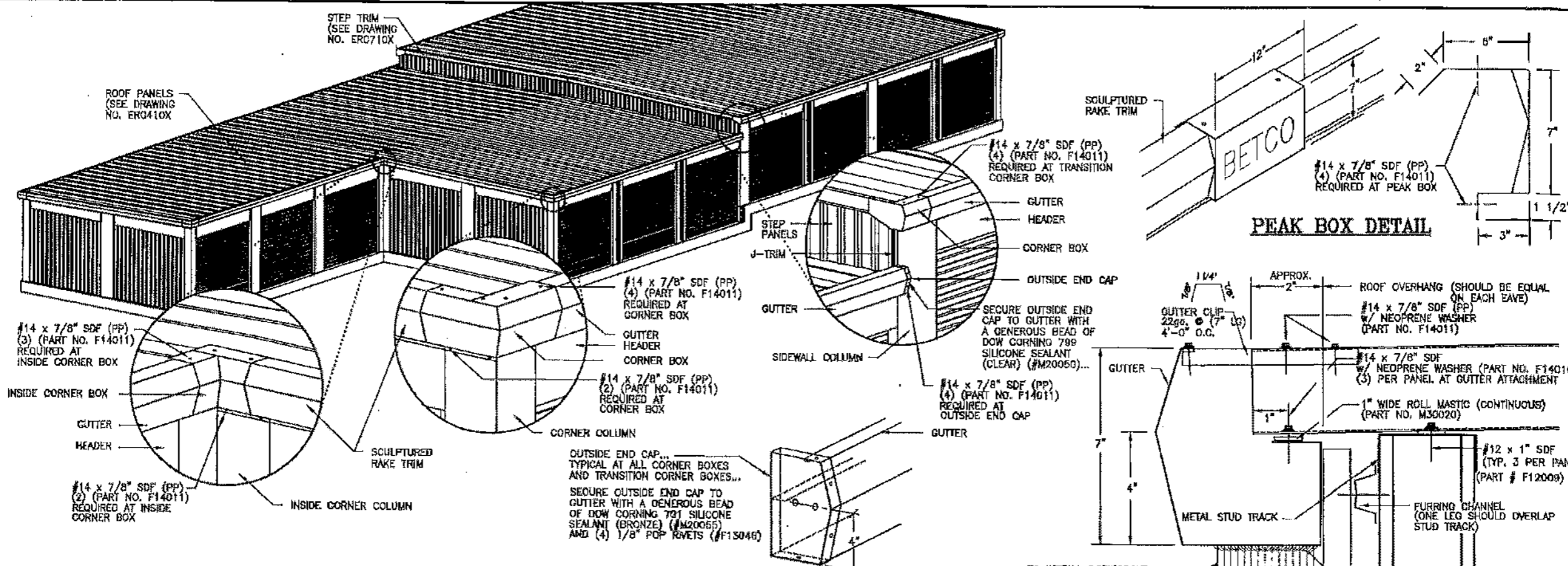
226 COMMERCE BLDG. STATESVILLE, NC 28625 (800)654-7813

REVISED FASTENER SIZE	1/15/03	JCM
REVISED GUTTER JOINT DETAIL	10/9/02	JCM
CHANGED INSIDE END CAP TO OUTSIDE END CAP	12/13/00	BDL
REVISED DOWNSPOUTS	07/10/00	JCM
GENERAL REVISIONS	03/19/99	FOX
REVISIONS	DATE	BY

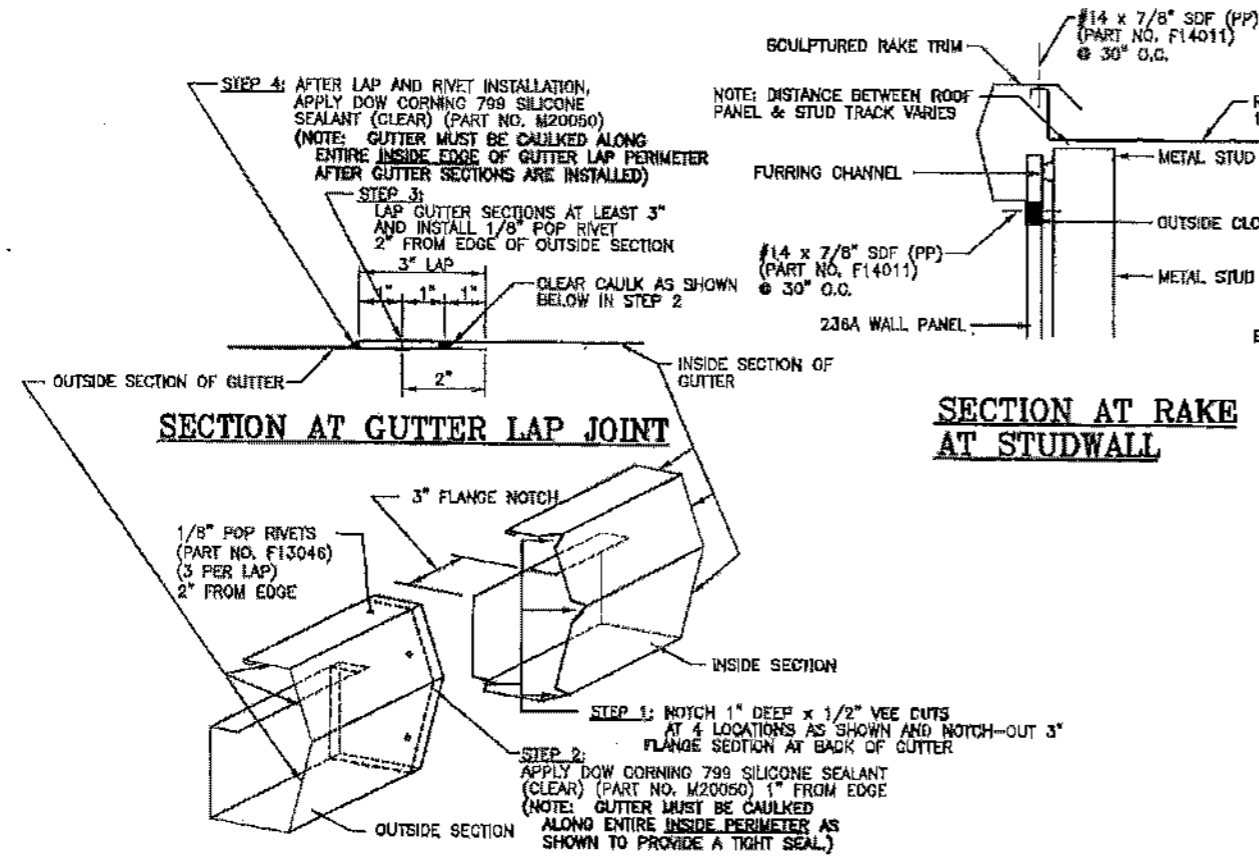
SHEET TITLE: Sculptured Rake Trim, Extended Gutters and Downspouts		
DRAWN BY: CJG	APPROVED BY:	DRAWING NUMBER: ERC505X
SCALE: NTS	DATE: 4/7/98	



JUN 10 2024



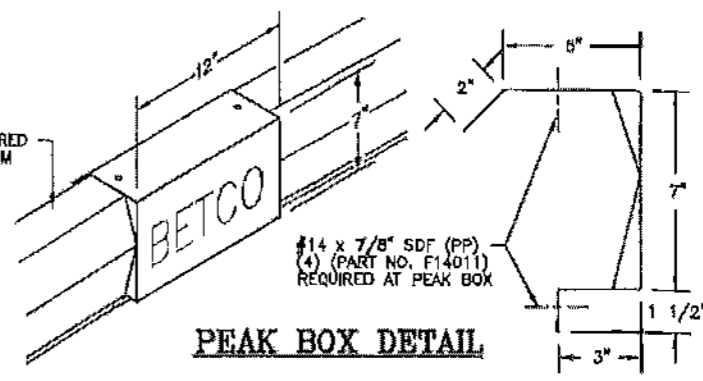
INSTALLATION DETAIL FOR OUTSIDE END CAP WITHIN CORNER BOXES



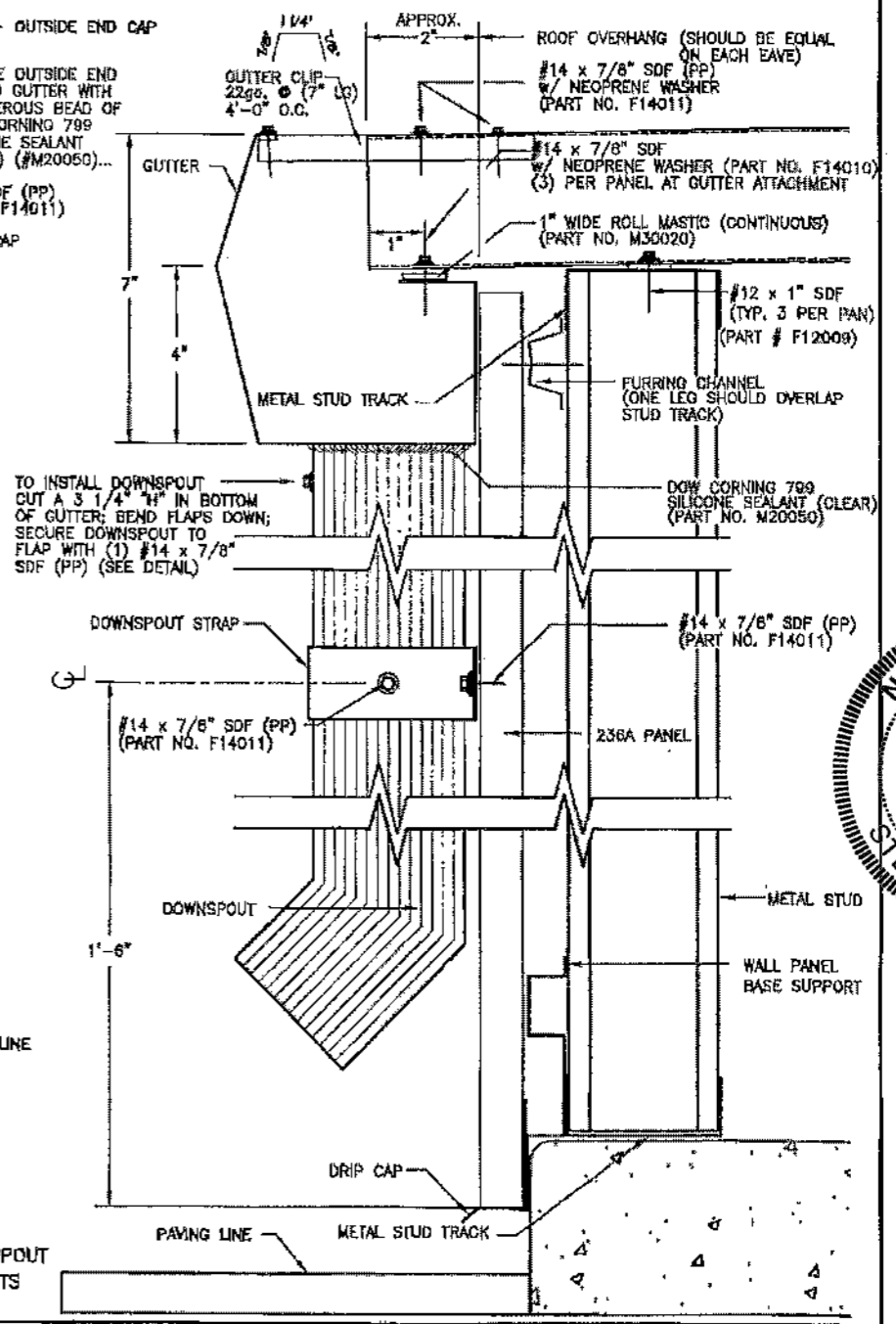
SECTION AT GUTTER LAP JOINT

SECTION AT RAKE AT STUDWALL

TYPICAL GUTTER LAP JOINT



PEAK BOX DETAIL



TYPICAL DOWNSPOUT OPENING

NOTE: SHOWN FOR A 3\"/>



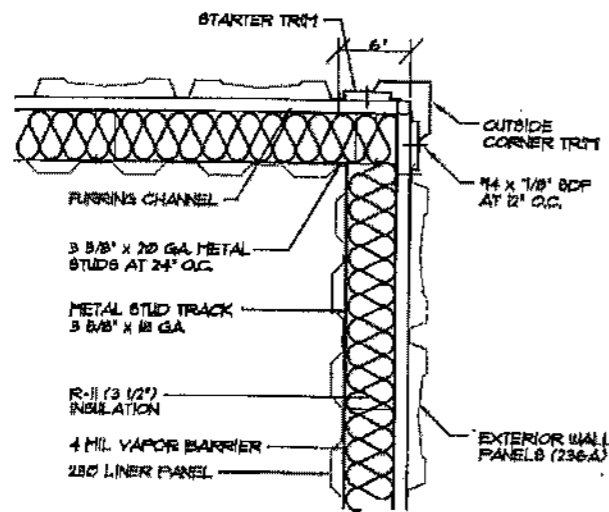
JUN 10 2024

REVISIONS	DATE	BY
REVISED PANEL OVERHANG	1/5/08	LKW
ADDED RAKE AT STUDWALL DETAIL	1/15/04	JCW
REVISED GUTTER LAP DETAIL	3/20/03	JCW
REVISED FASTENER SIZE	1/15/03	JCW
REVISED GUTTER JOINT DETAIL	10/8/02	JCW
REVISED STUDWALL NOTES	8/29/02	BAW
CHANGED INSIDE END CAP TO OUTSIDE END CAP	12/13/00	BDJ

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SHEET TITLE: **Sculptured Rake Trim, Extended Gutters and Downspouts at Studwall**

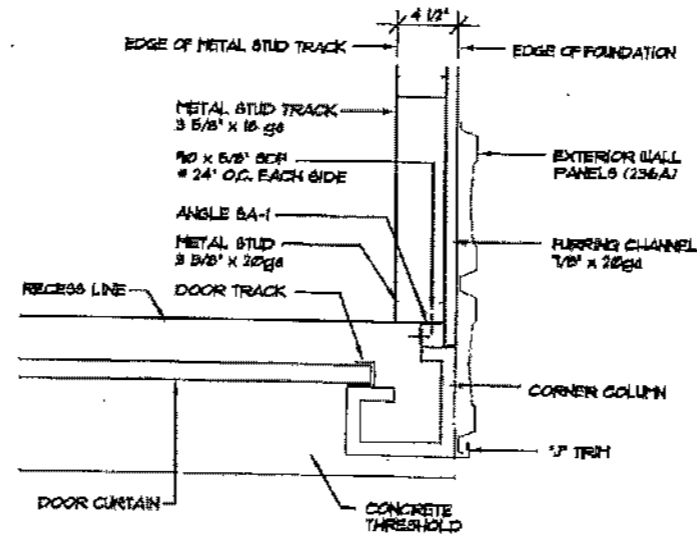
DRAWN BY: CUG
 APPROVED BY: [Signature]
 SCALE: NTS
 DATE: 4/7/98
 DRAWING NUMBER: **ERC506X**



INSULATED STUDWALL CORNER DETAIL

(A)
5/22

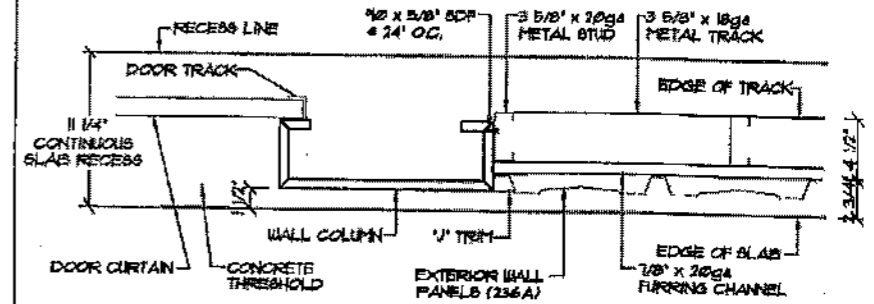
NOT TO SCALE



STUDWALL CONSTRUCTION @ CORNER COLUMN

(C)
5/22

NOT TO SCALE

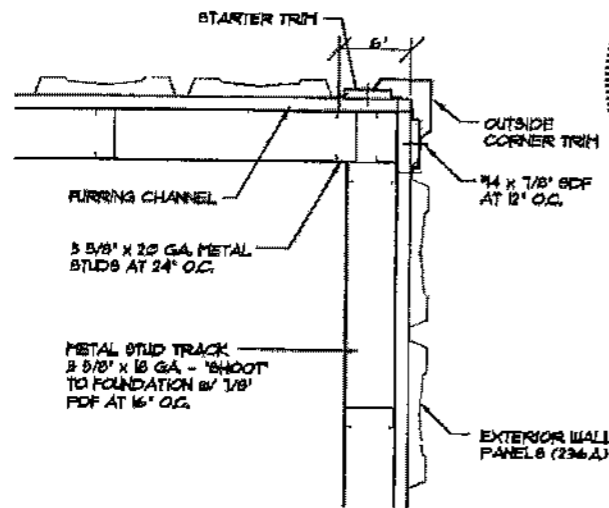


STUDWALL CONSTRUCTION @ WALL COLUMN IN RECESS

(E)
5/22

NOT TO SCALE

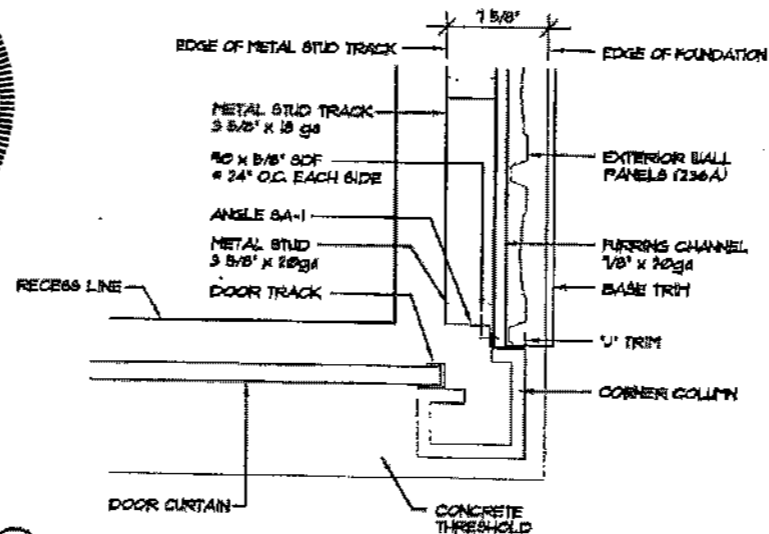
NOTE: WALL PANELS AND 1/2" TRIM MUST LINE UP WITH OUTSIDE EDGE OF WALL COLUMN



UNINSULATED STUDWALL CORNER DETAIL

(B)
5/22

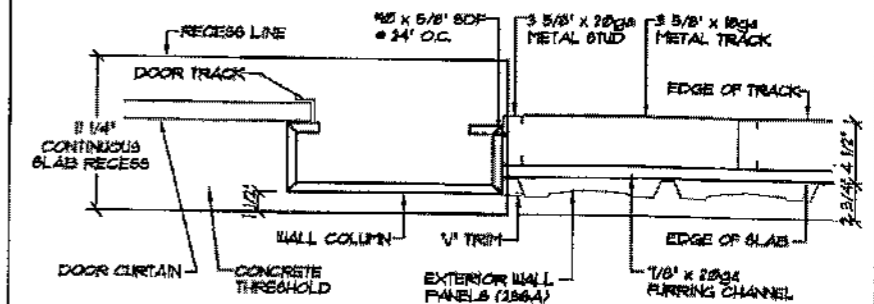
NOT TO SCALE



STUDWALL CONSTRUCTION @ CORNER COLUMN W/ THRESHOLD

(D)
5/22

NOT TO SCALE

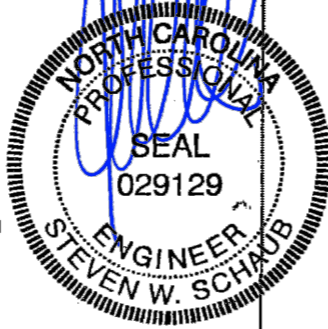


STUDWALL CONSTRUCTION @ WALL COLUMN

(F)
5/22

NOT TO SCALE

NOTE: WALL PANELS AND 1/2" TRIM MUST LINE UP WITH OUTSIDE EDGE OF WALL COLUMN



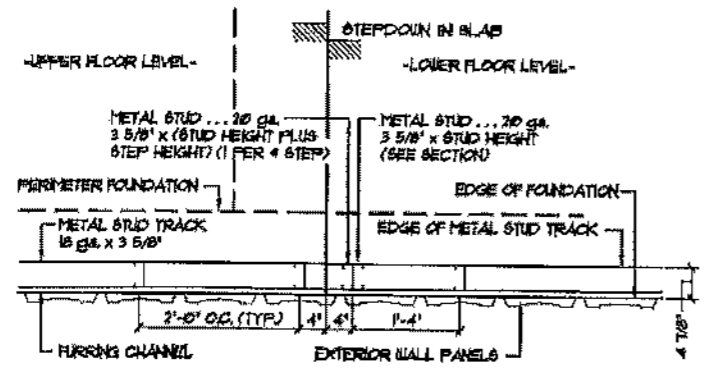
JUN 10 2024

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

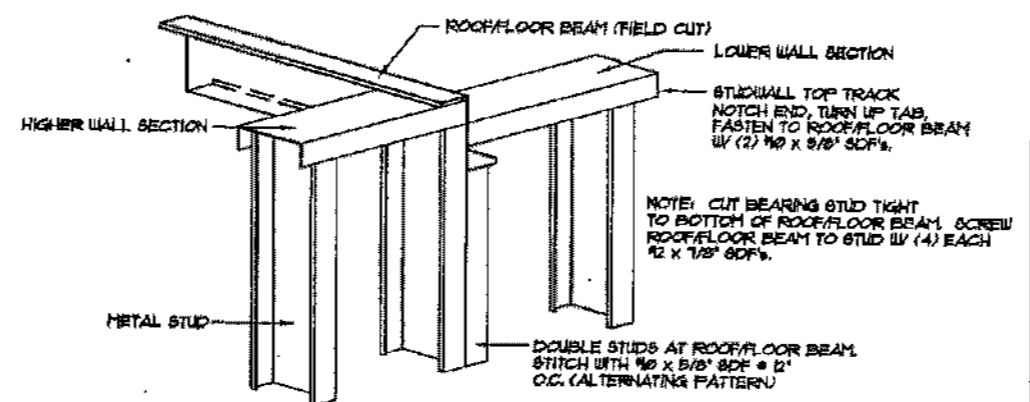


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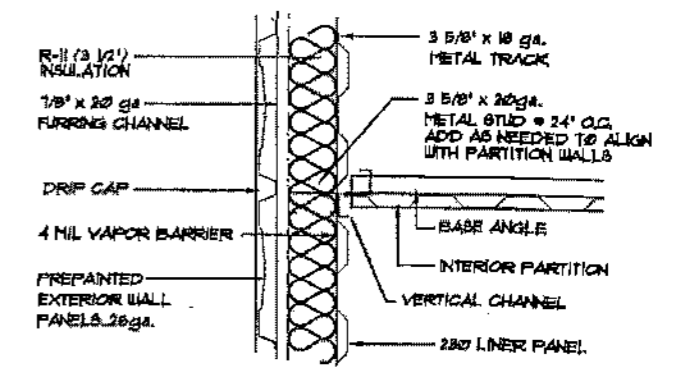
SHEET TITLE: Studwall Details		
DRAWN BY: CJG	APPROVED BY:	DRAWING NUMBER: ERC600X
SCALE: NTS	DATE: 4/14/00	



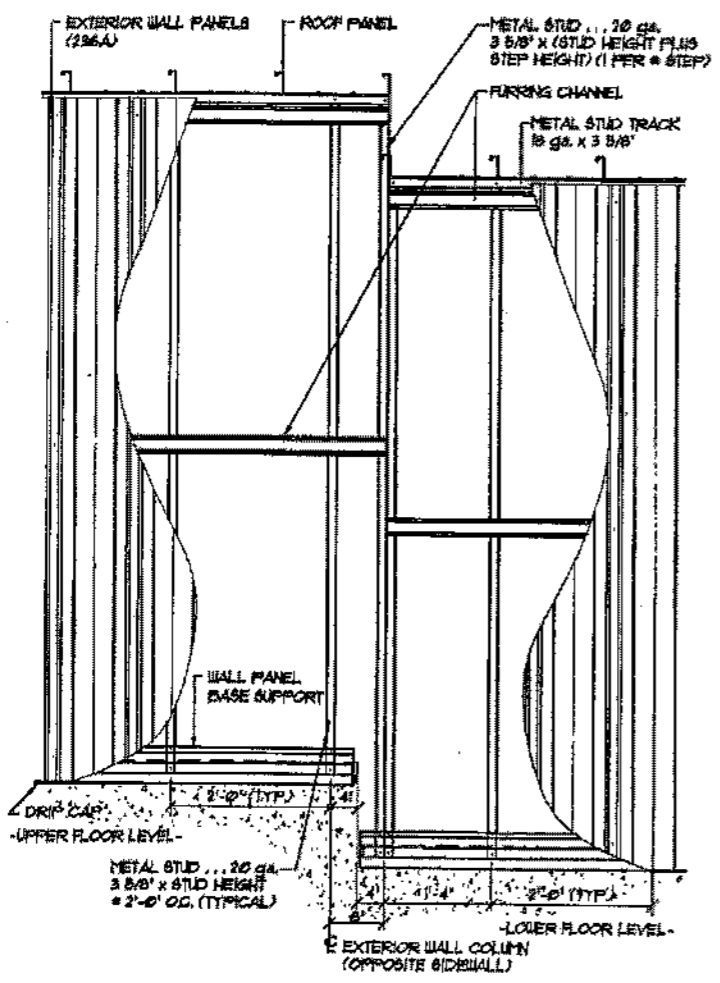
A PLAN VIEW OF STUDWALL @ FLOOR STEPDOWN
NOT TO SCALE



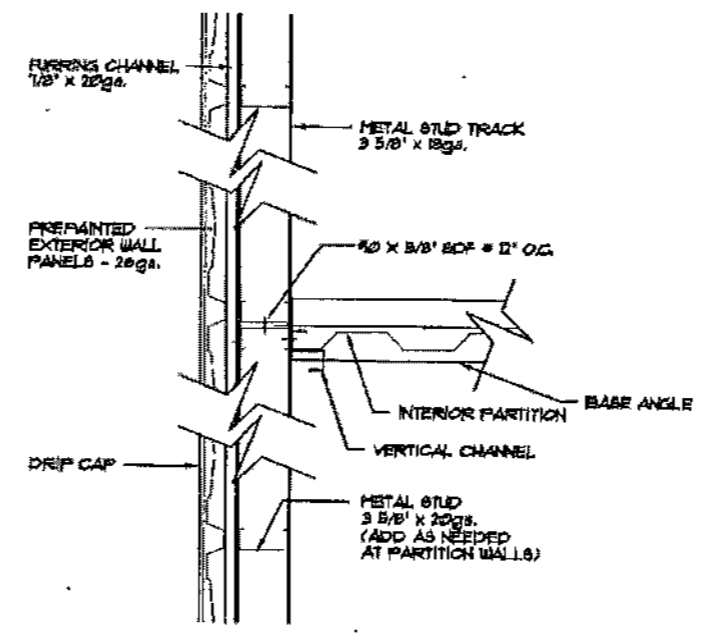
C ROOF/FLOOR BEAM @ STUDWALL
NOT TO SCALE



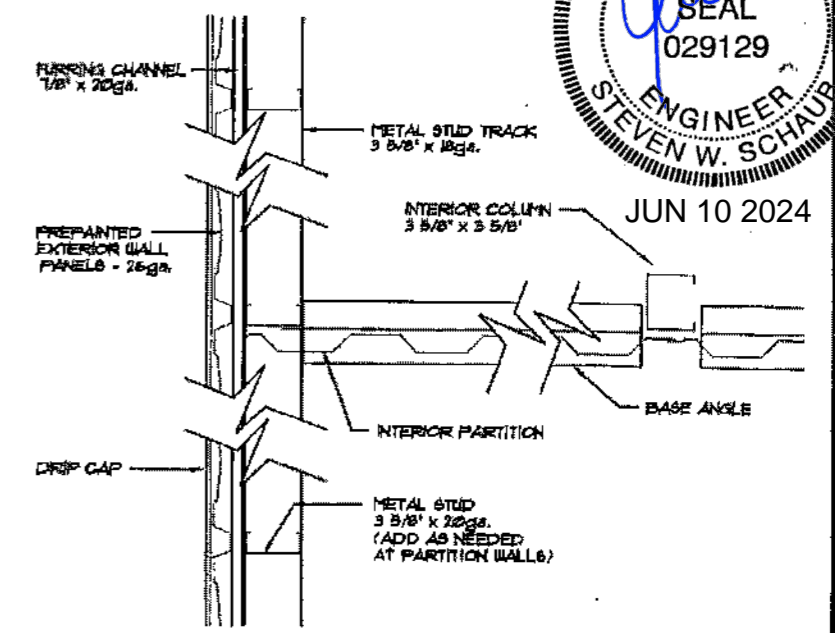
E PARTITION INSTALLATION AT INSULATED EXTERIOR STUDWALL
NOT TO SCALE



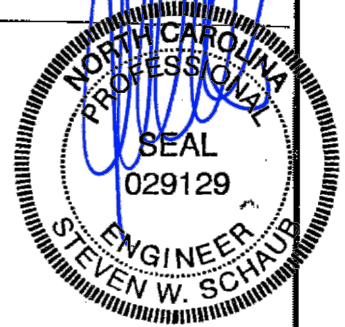
B ELEVATION @ STUDWALL AND STEPDOWN
NOT TO SCALE



D PARTITION INSTALLATION UNDER ROOF BEAM
NOT TO SCALE



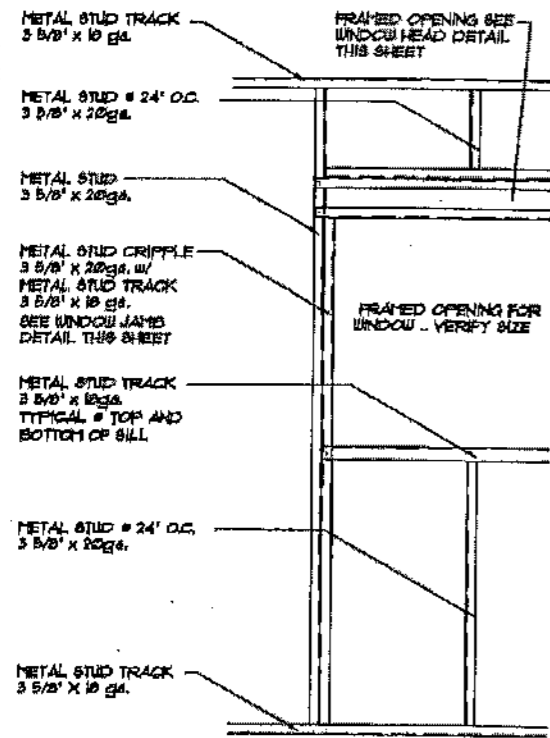
F PARTITION INSTALLATION AT STUDWALL
NOT TO SCALE



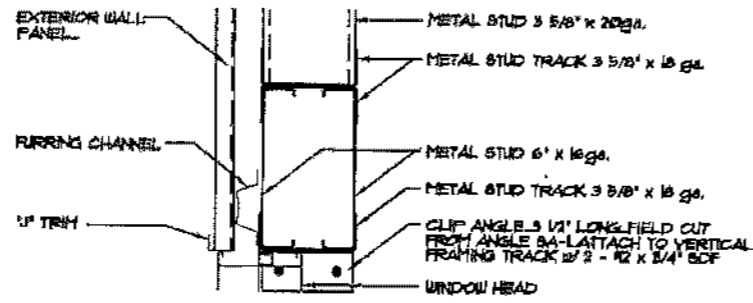
REVISIONS	DATE	BY
△ REVISED C/601 TO INCLUDE FLOOR BEAM	5/1/03	JCM
△ REVISED C/601 TO INCLUDE FLOOR BEAM	4/17/03	JCM
△ REVISED STUD SIZE	8/29/02	BAM

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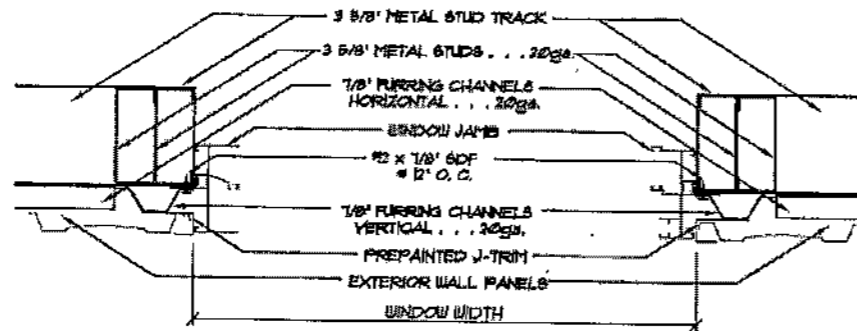
SHEET TITLE: Studwall Details		
DRAWN BY: CJG	APPROVED BY:	DRAWING NUMBER: ERC601X
SCALE: NTS	DATE: 4/14/00	



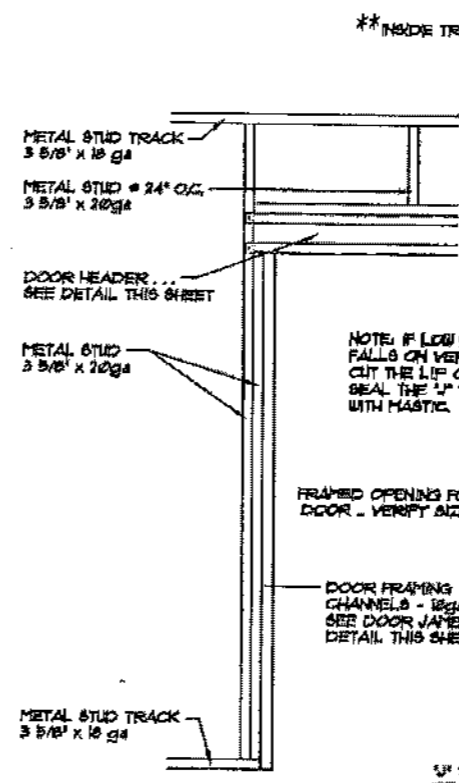
WINDOW OPENING FRAMING DETAIL
 NOT TO SCALE



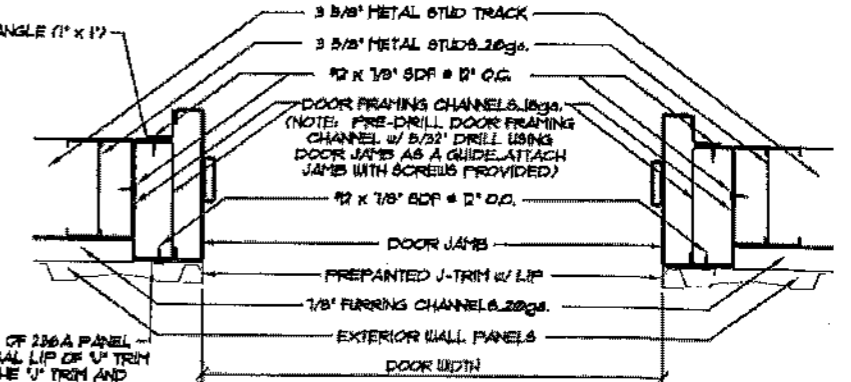
TYPICAL WINDOW HEADER DETAIL
 NOT TO SCALE



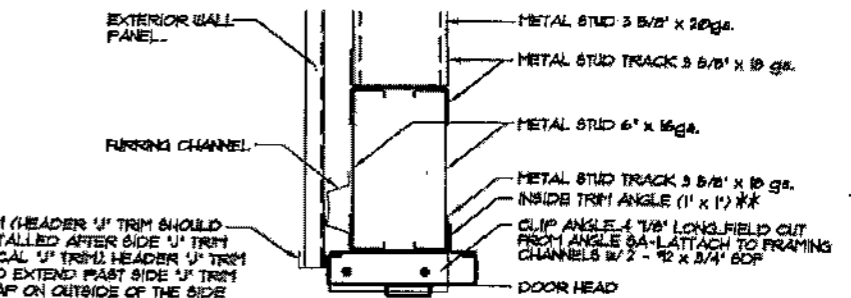
TYPICAL WINDOW JAMB DETAIL
 NOT TO SCALE



DOOR OPENING FRAMING DETAIL
 NOT TO SCALE



TYPICAL DOOR JAMB DETAIL
 NOT TO SCALE



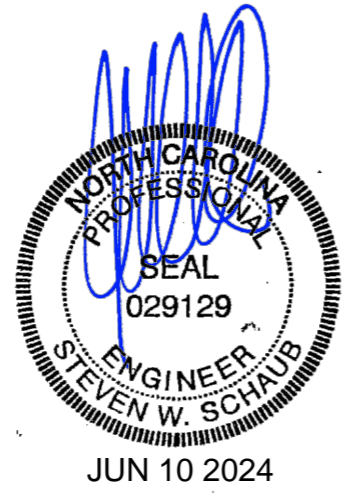
TYPICAL DOOR HEADER DETAIL
 NOT TO SCALE

** USE INSIDE TRIM ANGLE IF LINER PANELS ARE NOT SUPPLIED. IF LINER PANELS ARE SUPPLIED, TRIM AROUND DOOR WITH J-TRIM.

NOTE: VERIFY ACTUAL DOOR DIMENSIONS PRIOR TO FRAMING OPENINGS AS DOORS CAN VARY SLIGHTLY FROM THE DIMENSIONS LISTED BY MANUFACTURER.

DOOR SIZE	FLYCO*	FDL*	GLOBAL*
	OUT TO OUT FRAME DIMENSION	OUT TO OUT FRAME DIMENSION	OUT TO OUT FRAME DIMENSION
3'-6" x 6'-8"	3'-10" x 6'-9 13/16"	3'-10" x 6'-10 1/4"	3'-10" x 6'-10 1/4"
4'-0" x 6'-8"	4'-4" x 6'-9 13/16"	4'-4" x 6'-10 1/4"	4'-4" x 6'-10 1/4"
3'-6" x 7'-0"	3'-10" x 7'-1 13/16"	3'-10" x 7'-2 1/4"	3'-10" x 7'-2 1/4"
4'-0" x 7'-0"	4'-4" x 7'-1 13/16"	4'-4" x 7'-2 1/4"	4'-4" x 7'-2 1/4"

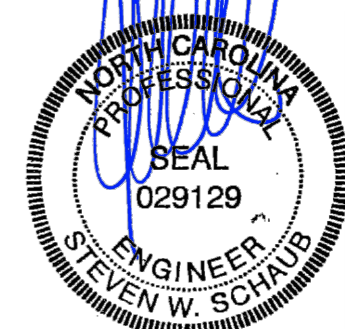
* VERIFY DOOR MANUFACTURER WITH TAKE-OFF



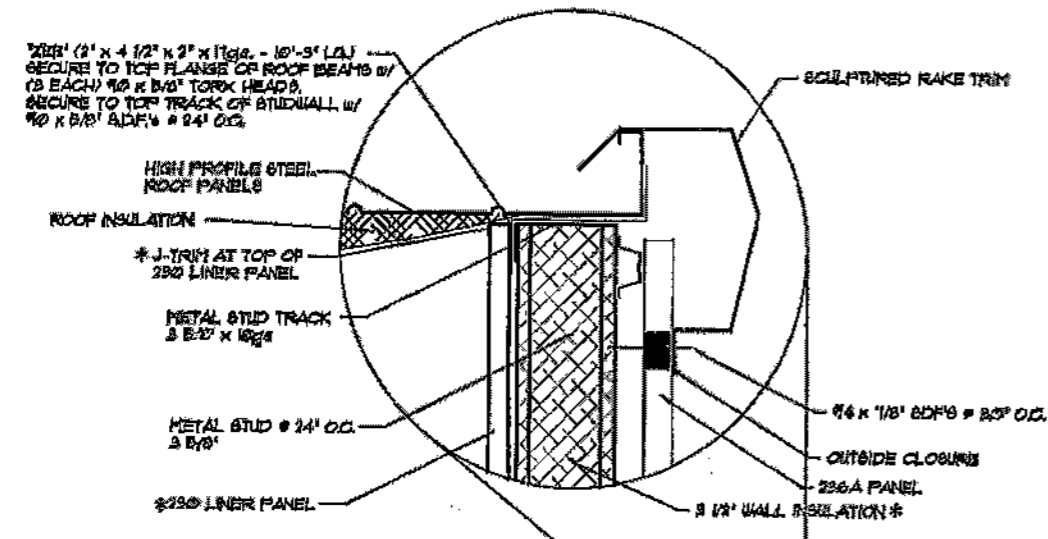
REVISIONS	DATE	BY
REVISED 'J' TRIM AT PERSONNEL DOORS	1/25/11	JCM
ADDED GLOBAL DOORS TO CHART	11/22/11	JCM
REVISED DUE TO DOOR HEIGHT CHANGE	4/7/05	BDL

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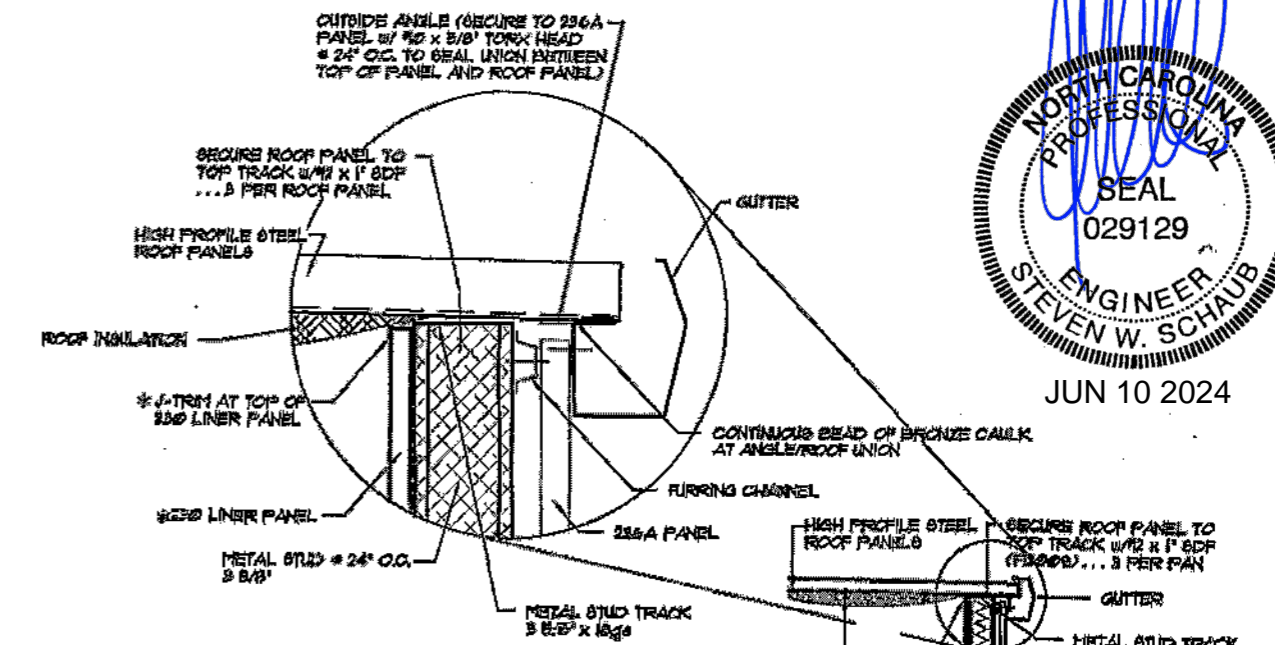
SHEET TITLE: Exterior Personnel Door & Window Details In Studwall		
DRAWN BY: JCM	APPROVED BY:	DRAWING NUMBER: ERC602X
SCALE: NTS	DATE: 9/19/02	



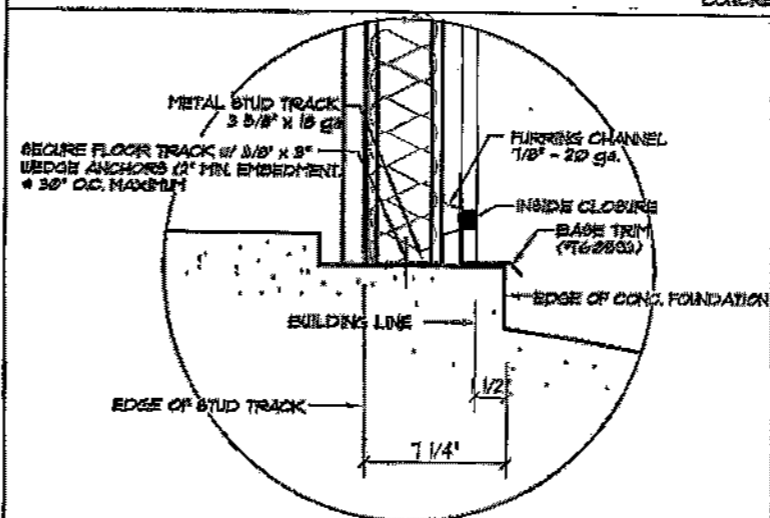
JUN 10 2024



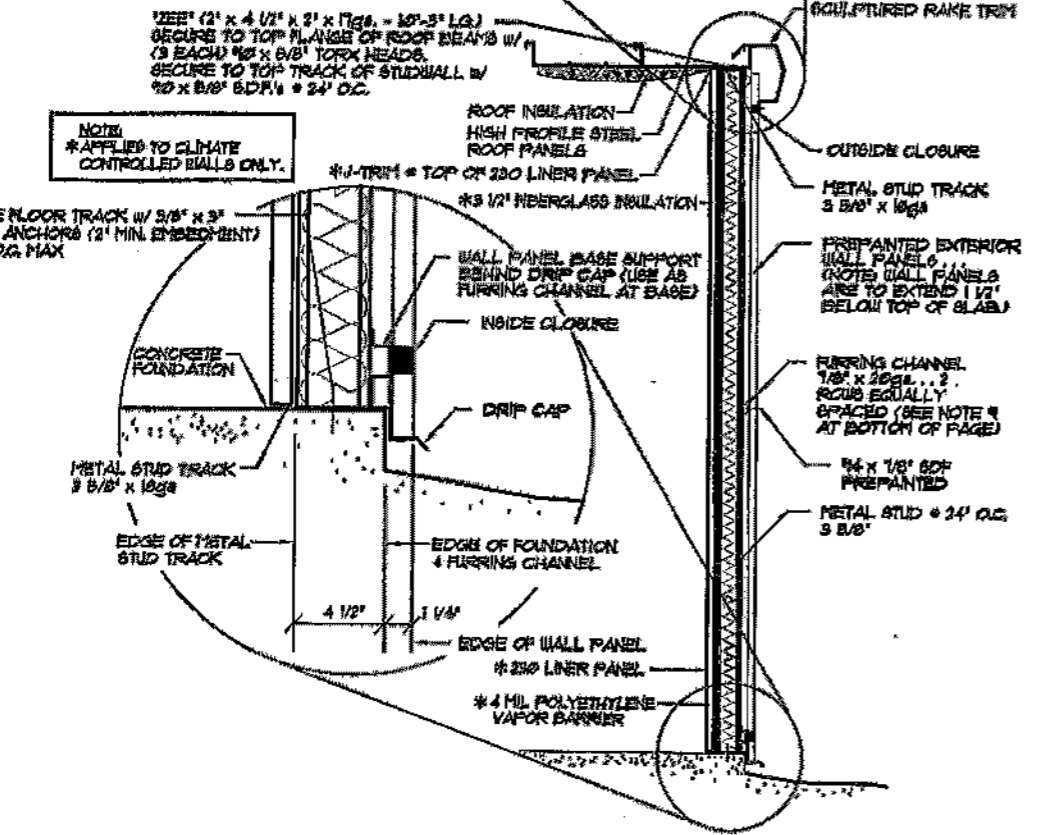
A
630 SECTION AT EXTERIOR STUDWALL ENDWALL
NOT TO SCALE



B
630 SECTION AT EXTERIOR STUDWALL SIDEWALL
NOT TO SCALE



BASE CONDITION FOR STUDWALL IN RECESS



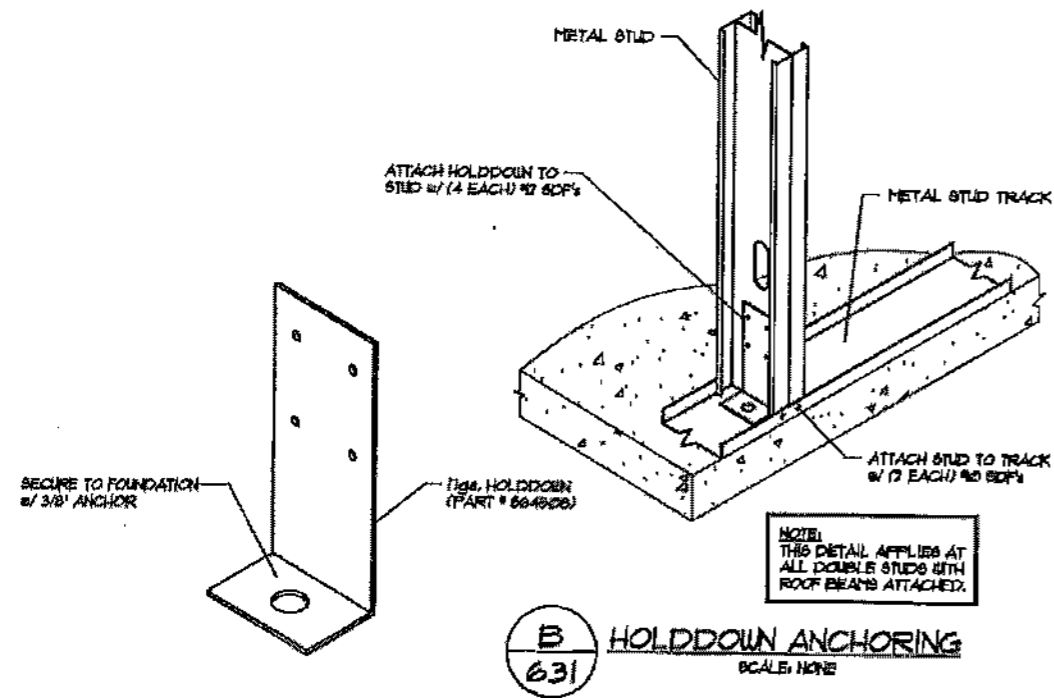
NOTE #1: IF STUDWALL IS GREATER THAN OR EQUAL TO 9'-10 1/8" HGT. 2 EQUALLY SPACED ROWS OF INTERMEDIATE FURRING CHANNELS ARE REQUIRED BETWEEN BASE AND TOP OF STUDWALL.

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

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

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



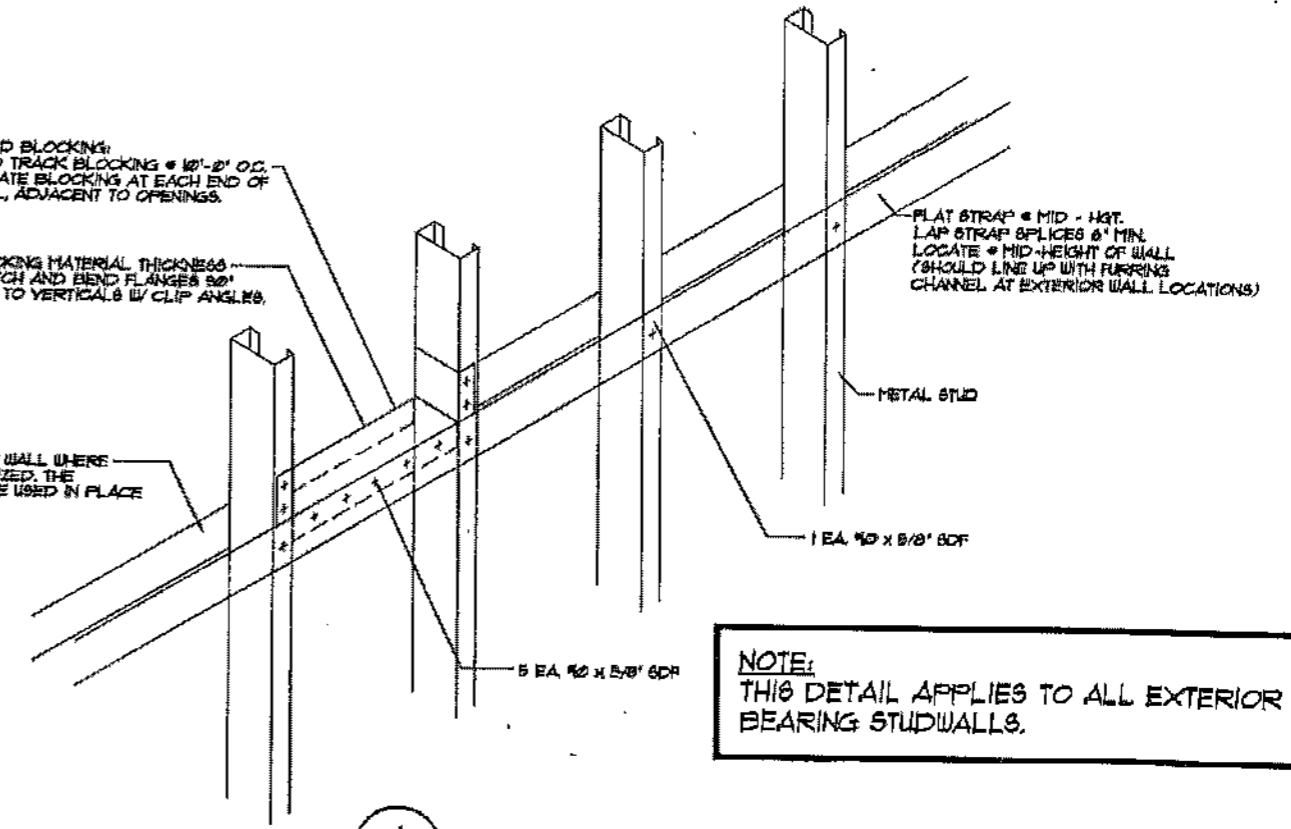
B
631
HOLDDOWN ANCHORING
SCALE: NONE

NOTE:
THIS DETAIL APPLIES AT ALL DOUBLE STUDS WITH ROOF BEAMS ATTACHED.

SOLID BLOCKING:
STUD TRACK BLOCKING @ 12'-2\"/>

FOR TRACK:
WHERE BLOCKING MATERIAL THICKNESS ALLOWS, NOTCH AND BEND FLANGES 90° OR ANCHOR TO VERTICALS @ 45° ANGLES.

NOTE:
OF IT STRAP AT EXTERIOR OF WALL WHERE FURRING CHANNELS ARE UTILIZED, THE FURRING CHANNEL SHOULD BE USED IN PLACE OF THE METAL STRAP.



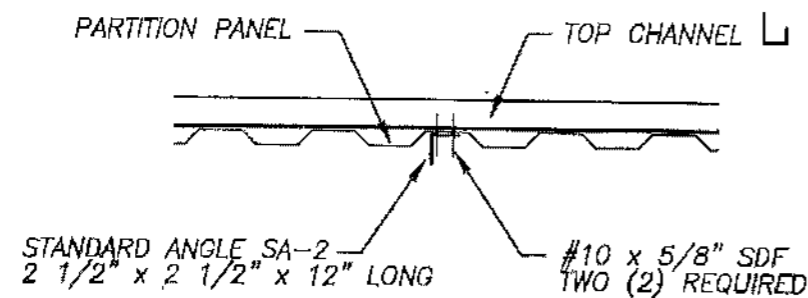
A
631
WALL BLOCKING DETAIL
SCALE: NONE

NOTE:
THIS DETAIL APPLIES TO ALL EXTERIOR BEARING STUDWALLS.

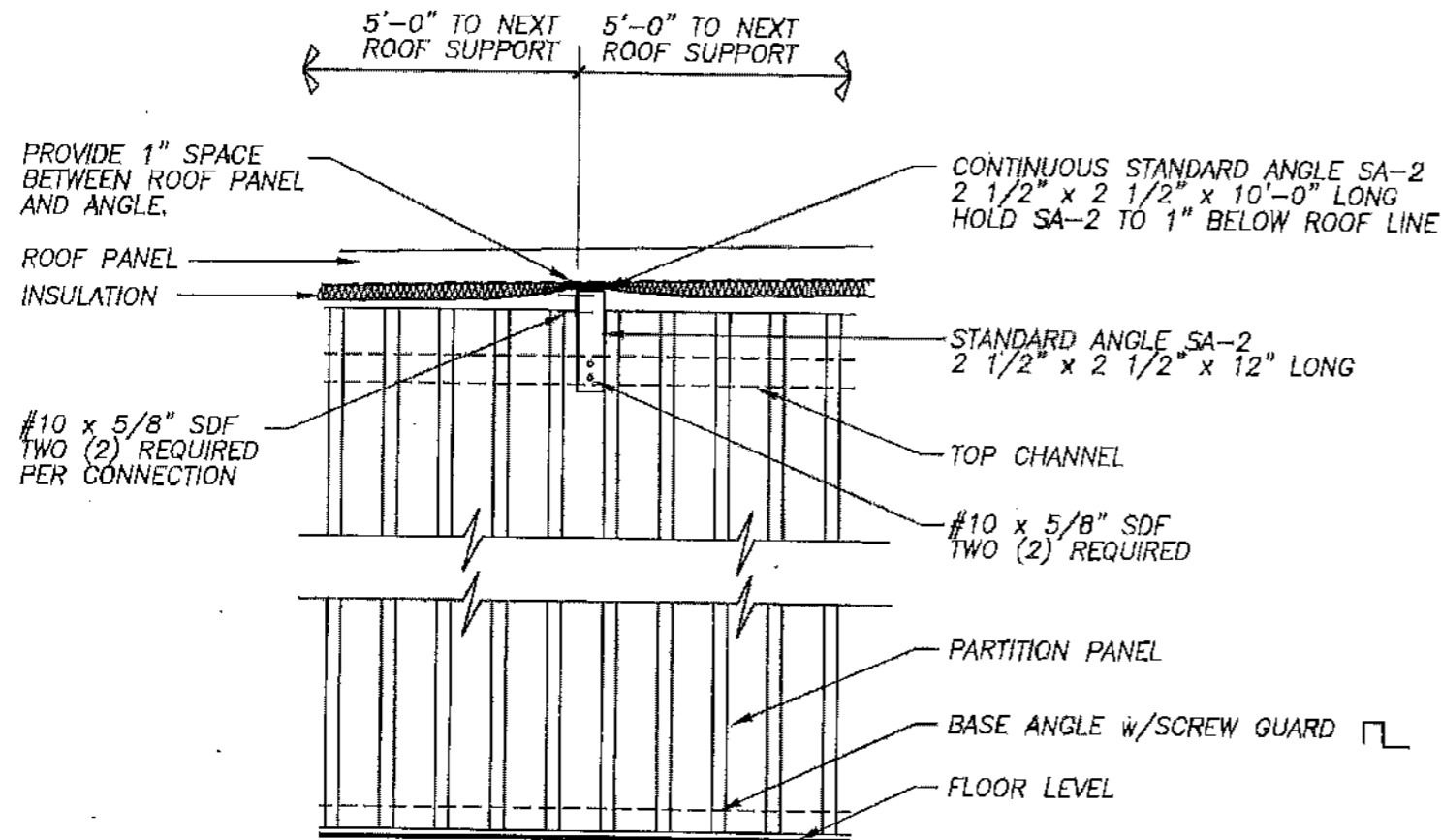


JUN 10 2024

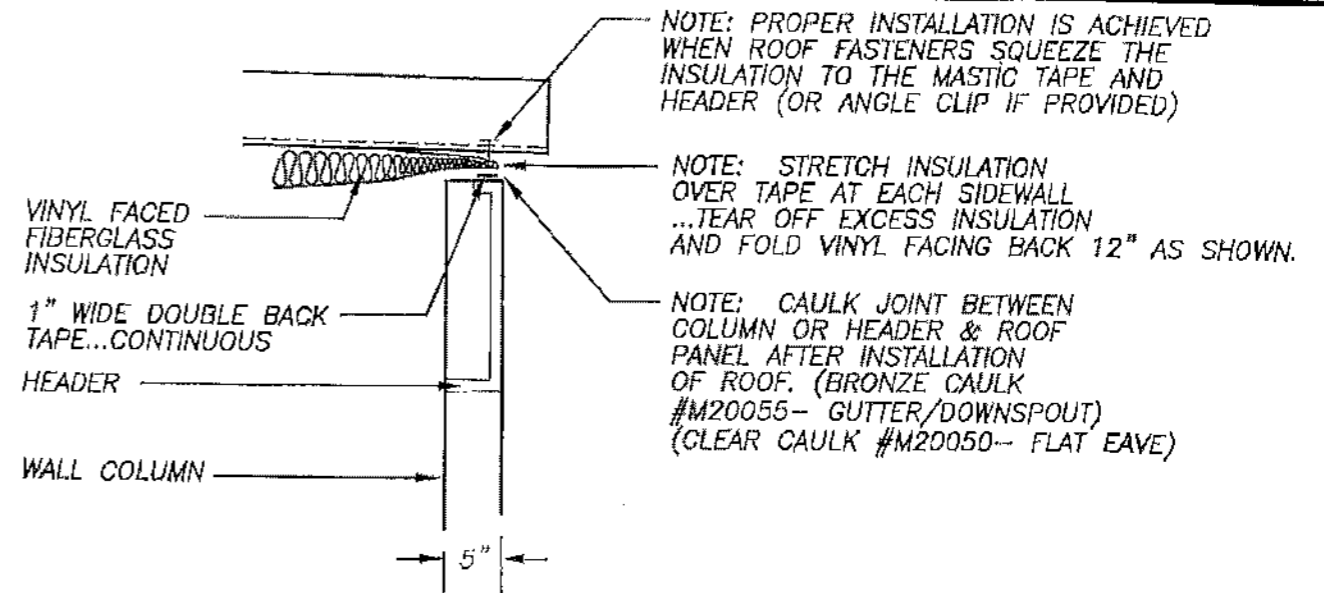
			<p>BETCO 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813</p>	SHEET TITLE: Studwall Details	
				DRAWN BY: JCM	APPROVED BY:
REVISIONS			SCALE: NTS	DATE: 11/8/11	
	DATE	BY			



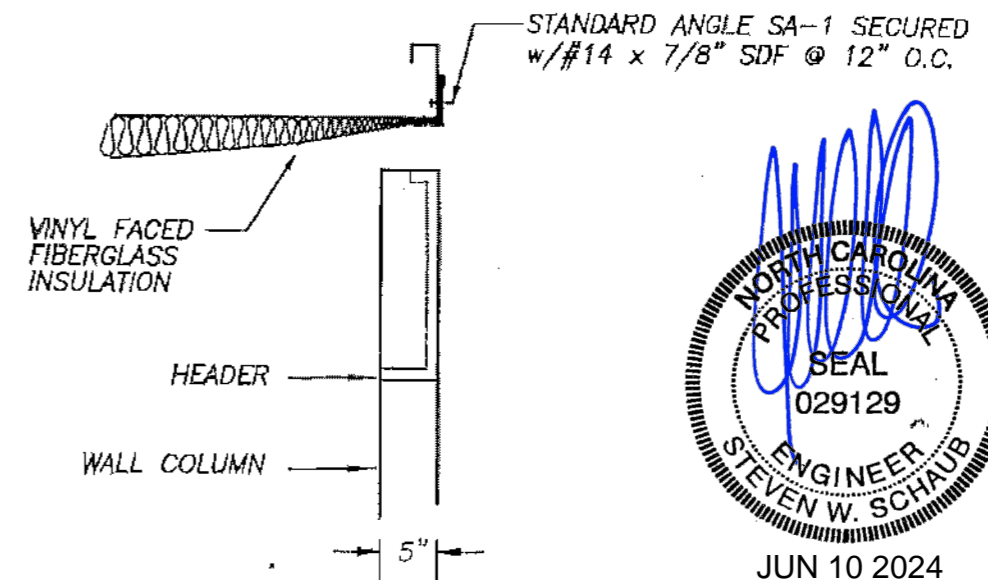
PLAN VIEW



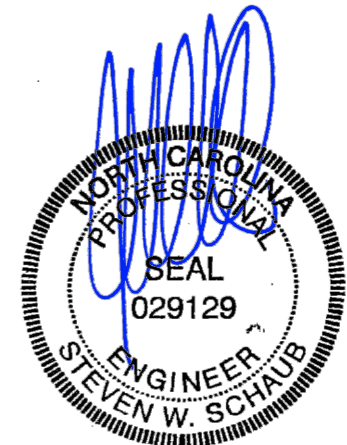
ELEVATION AT INTERMEDIATE INSULATION SUPPORT



INSULATION INSTALLATION @ SIDEWALL



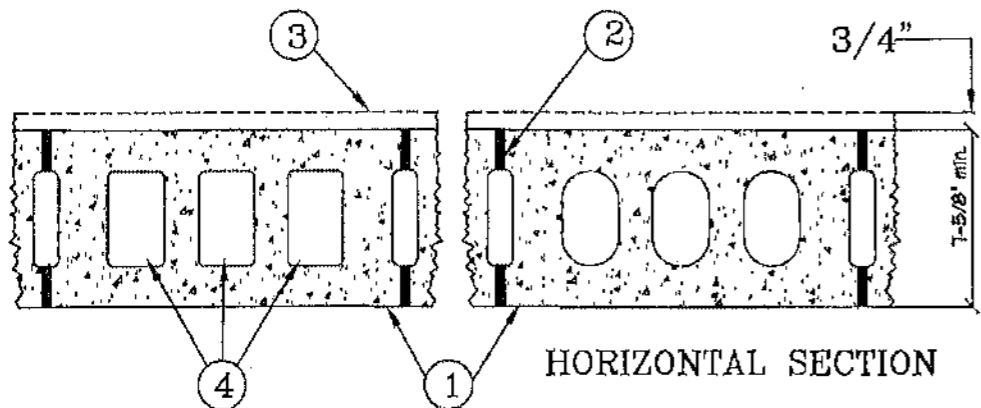
INSULATION INSTALLATION AT END WALL



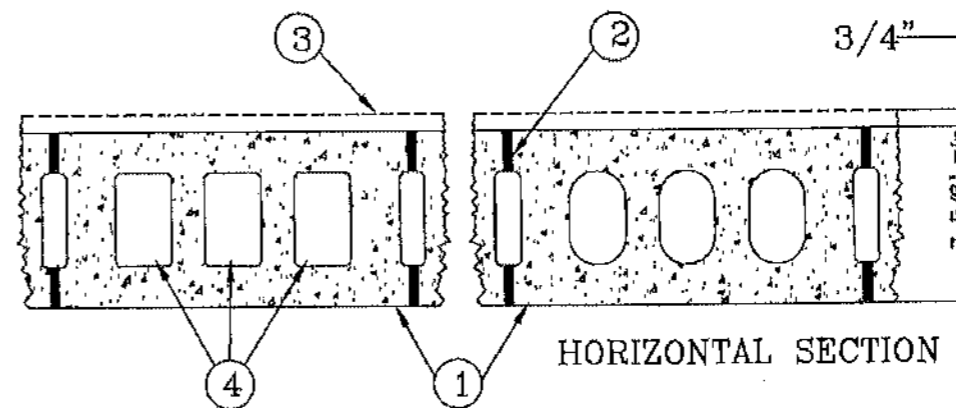
JUN 10 2024

<table border="1"> <tr> <td>△</td> <td>ADDED ROOF FASTENER NOTE</td> <td>4/17/03</td> <td>JCM</td> </tr> <tr> <td>△</td> <td>REVISED SA-2 GAP</td> <td>1/14/03</td> <td>BAM</td> </tr> <tr> <td>△</td> <td>GENERAL REVISIONS</td> <td>3-8-99</td> <td>FOX</td> </tr> <tr> <td>REVISIONS</td> <td></td> <td>DATE</td> <td>BY</td> </tr> </table>			△	ADDED ROOF FASTENER NOTE	4/17/03	JCM	△	REVISED SA-2 GAP	1/14/03	BAM	△	GENERAL REVISIONS	3-8-99	FOX	REVISIONS		DATE	BY	<p>228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813</p>	SHEET TITLE: Insulation installation	
△	ADDED ROOF FASTENER NOTE	4/17/03	JCM																		
△	REVISED SA-2 GAP	1/14/03	BAM																		
△	GENERAL REVISIONS	3-8-99	FOX																		
REVISIONS		DATE	BY																		
DRAWN BY: J Pope		APPROVED BY:	DRAWING NUMBER: ERC700X																		
SCALE: NTS		DATE: 6-27-94																			

Design No. U901
 Bearing Wall Rating--4 hr.
 Nonbearing Wall Rating--4 hr.



Design No. U904
 Bearing Wall Rating--3 hr.
 Nonbearing Wall Rating--3 hr.

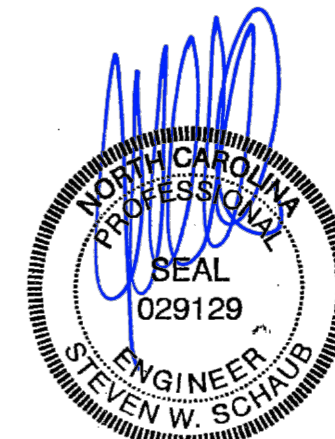


1. Concrete Blocks*-Various designs. Classification B-4 (4hr).
 See Concrete Blocks category for lists of eligible manufacturers.
2. Mortar-Blocks laid in full bed of mortar, nom. 3/8" thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Stucco or Gypsum Plaster-If used, add 1/2 hr. to Classification.
4. Loose Masonry Fill-If all core spaces are filled with loose dry expanded slag, burned clay, or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class D-2 (2 hr) or C-3 (3 hr) concrete blocks will provide a 4 hr fire resistance rating.

*Bearing the UL Classification Marking

1. Concrete Blocks*-Various designs. Classification C-3 (3hr).
 See Concrete Blocks category for lists of eligible manufacturers.
2. Mortar-Blocks laid in full bed of mortar, nom. 3/8" thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Stucco or Gypsum Plaster-If used, add 1/2 hr. to Classification.
4. Loose Masonry Fill-If all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hour to classification.

*Bearing the UL Classification Marking



JUN 10 2024

				SHEET TITLE: UL SPECIFICATIONS		
				U901 & U904		
			228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	DRAWN BY: DSF	APPROVED BY:	DRAWING NUMBER:
REVISIONS				SCALE: NTS	DATE: 5/16/01	ERC754X
	DATE	BY				