

DRAWING NOTE

APPROVAL OF THESE DRAWINGS INDICATES THAT THEY HAVE BEEN INTERPRETED CORRECTLY AND HAVE APPLIED THE REQUIREMENTS OF THE CONTRACTS DRAWINGS AND SPECIFICATIONS. WHERE DISCREPANCIES EXIST BETWEEN THESE DRAWINGS AND THE DRAWINGS FOR OTHER TRADES, THE STRUCTURAL STEEL DRAWINGS SHALL GOVERN.

DESIGN NOTE

DESIGN OF ANY MATERIALS IN THE STRUCTURE, WHICH ARE NOT FURNISHED BY THE MANUFACTURER, ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ENGINEERS OTHER THAN THE MANUFACTURER, UNLESS SPECIFICALLY INDICATED.

INSTALLATION NOTES

- * FIELD CUTTING OF COMPONENTS IS REQUIRED FOR FITMENT.
- * ROOF PANEL LAPS MUST BE SEALED WITH MASTIC TAPE (PROVIDED).
- * PANELS AND TRIM ARE RECOMMENDED TO BE SET 1/8" ABOVE CONCRETE SURFACE.
- * FLASHING MUST BE LAPPED A MINIMUM 2" AND SEALED AS NEEDED FOR WATER RESISTANCE.
- * ALLOW 1/2" TOLERANCE FOR GIRTS AND HEADERS

BUILDING LAYOUT

WIDTH (ft.): 40
 LENGTH (ft.): 325
 EAVE HEIGHT (ft.): 16 HS
 ROOF SLOPE (Rise/12): 0.5

PANEL SELECTION

ROOF: SS-II 24 Ga. Steel Gray.
 WALL: SSX 26 Ga. Hawaiian Blue.
 PARTITION: REVERSE-LRX 29 Ga. Galv.
 LINER: None

STANDARD ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EOS	EDGE OF SLAB	OA	OVERALL
APPR	APPROXIMATE	FBO	FURNISHED BY OTHERS	OC	ON CENTER
BLDG	BUILDING	FND	FOUNDATION	OD	OUTSIDE DIAMETER
BLK	BLOCK	FOB	FACE OF BLOCK / BRICK	OPP	OPPOSITE
BM	BEAM	FOS	FACE OF STEEL	PTN	PARTITION
BOT	BOTTOM	FT	FOOT / FEET	RAD	RADIUS
BLK	BLOCK	FTG	FOOTING	REF	REFERENCE
C/L	CENTERLINE	GA	GAUGE	REQD	REQUIRED
CJ	CAULK JOINT	GALV	GALVANIZED	REINF	REINFORCED
CLG	CEILING	GC	GENERAL CONTRACTOR	RO	ROUGH OPENING
COL	COLUMN	GRND	GROUND	SECT	SECTION
CONC	CONCRETE	GR	GRADE	SF	SQUARE FOOTAGE
CTR	CENTER	GYP	GYP SUM WALL BOARD	SIM	SIMILAR
DBL	DOUBLE	HORIZ	HORIZONTAL	SQ	SQUARE
DET	DETAIL	HT	HEIGHT	STD	STANDARD
DIA	DIAMETER	INS	INSULATION	STL	STEEL
DWG	DRAWING	INT	INTERIOR	TOB	TOP OF BEAM
DIM	DIMENSION	INFO	INFORMATION	TOC	TOP OF CONCRETE
DR	DOOR	JT	JOINT	TOS	TOP OF STEEL
EA	EACH	MAX	MAXIMUM	TOW	TOP OF WALL
ET	ERECTION TOLERANCE	MIN	MINIMUM	TYP	TYPICAL
EJ	EXPANSION JOINT	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION	MTL	METAL	VAR	VARIES
EXIST	EXISTING	NIC	NOT IN CONTRACT	VERT	VERTICAL
EXP	EXPANSION	NTS	NOT TO SCALE	VIF	VERIFY IN FIELD
EXT	EXTERIOR	NA	NOT APPLICABLE	WO	WITHOUT
		NO	NUMBER	WT	WEIGHT

RESPONSIBILITIES

1. THE BUILDING MANUFACTURER'S CUSTOMER, HEREAFTER REFERRED TO AS THE "CUSTOMER", OBTAINS AND PAYS FOR ALL BUILDING PERMITS, LICENSES, PUBLIC ASSESSMENTS, PAVING OR UTILITY PRO RATA, UTILITY CONNECTIONS, OCCUPANCY FEES AND OTHER FEES REQUIRED BY ANY GOVERNMENTAL AUTHORITY OR UTILITY IN CONNECTION WITH THE WORK PROVIDED FOR IN THE CONTRACT DOCUMENTS. THE CUSTOMER PROVIDES AT HIS EXPENSE ALL PLANS AND SPECIFICATIONS REQUIRED TO OBTAIN A BUILDING PERMIT. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT ALL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES

2. THE CUSTOMER IS RESPONSIBLE FOR IDENTIFYING ALL APPLICABLE BUILDING CODES, ZONING CODES, OR OTHER REGULATIONS APPLICABLE TO THE CONSTRUCTION PROJECT, INCLUDING THE METAL BUILDING SYSTEM

3. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO INTERPRET ALL ASPECTS OF THE END USER'S SPECIFICATIONS AND INCORPORATE THE APPROPRIATE SPECIFICATION, DESIGN CRITERIA, AND DESIGN LOADS INTO THE ORDER DOCUMENTS SUBMITTED TO THE BUILDING MANUFACTURER

4. IT IS THE RESPONSIBILITY OF THE BUILDING MANUFACTURER TO FURNISH THE METAL BUILDING SYSTEM TO MEET THE SPECIFICATIONS INCLUDING THE DESIGN CRITERIA AND DESIGN LOADS INCORPORATED BY THE CONTRACTOR INTO THE ORDER DOCUMENTS. THE BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR MAKING AN INDEPENDENT DETERMINATION OF ANY LOCAL CODES OR ANY OTHER REQUIREMENTS NOT PART OF THE ORDER DOCUMENTS

5. THE BUILDING MANUFACTURER'S STANDARD SPECIFICATIONS APPLY UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS. THE BUILDING MANUFACTURER'S DESIGN, FABRICATION, QUALITY CRITERIA, STANDARDS, PRACTICE, METHODS AND TOLERANCES SHALL GOVERN THE WORK ANY OTHER INTERPRETATIONS TO THE CONTRARY NOTWITHSTANDING. IT IS UNDERSTOOD BY BOTH PARTIES THAT THE CUSTOMER IS RESPONSIBLE FOR CLARIFICATIONS OF INCLUSIONS OR EXCLUSIONS FROM THE ARCHITECTURAL PLANS.

6. IN CASE OF DISCREPANCIES BETWEEN BUILDING MANUFACTURER'S STRUCTURAL STEEL PLANS AND PLANS FOR OTHER TRADES, THE BUILDING MANUFACTURER'S SHALL GOVERN PER CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES IN THE AISC 330-10; SECTION 3.3.

7. THE CUSTOMER IS RESPONSIBLE FOR OVERALL PROJECT COORDINATION. ALL INTERFACE, COMPATIBILITY AND DESIGN CONSIDERATIONS CONCERNING ANY MATERIALS NOT FURNISHED BY BUILDING MANUFACTURER AND THE BUILDING MANUFACTURER'S STEEL SYSTEM ARE TO BE CONSIDERED AND COORDINATED BY THE CUSTOMER. SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS MUST BE FURNISHED BEFORE THE RELEASE FOR FABRICATION OR THE BUILDING MANUFACTURER'S ASSUMPTIONS WILL GOVERN.

8. ANCHOR RODS AND FOUNDATION EMBEDMENT ARE DESIGNED, FURNISHED, AND SET BY THE CUSTOMER IN ACCORDANCE WITH AN APPROVED DRAWING. DIMENSIONAL ACCURACY SHALL SATISFY THE REQUIREMENT OF SECTIONS 7.5.1 OF CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES IN THE AISC 330-10.

9. ALL OTHER EMBEDDED ITEMS OR CONNECTION MATERIALS BETWEEN THE STRUCTURAL STEEL AND THE WORK OF OTHER TRADES ARE LOCATED AND SET BY THE CUSTOMER IN ACCORDANCE WITH APPROVED LOCATION ON ERECTION DRAWINGS. ACCURACY OF THESE ITEMS MUST SATISFY THE ERECTION TOLERANCE REQUIREMENTS.

10. THE BUILDING MANUFACTURER DOES NOT INVESTIGATE THE INFLUENCE OF THE METAL BUILDING SYSTEMS ON EXISTING BUILDINGS OR STRUCTURES. THE END CUSTOMER ASSURES THAT SUCH BUILDINGS AND STRUCTURES ARE ADEQUATE TO RESIST SNOW DRIFTS, WIND LOADS, OR OTHER CONDITIONS AS A RESULT OF THE PRESENCE OF THE METAL BUILDING SYSTEMS

FUQUAY VARINA, NC 27526 (BUILDING-BR1)

DRAWING SCHEDULE

1	LEAD SHEET, GENERAL NOTES, SCHEDULES
2	EXTERIOR ELEVATION PLAN
3	SLAB PLAN
4	FLOOR PLAN
5	FRAMING PLAN
5A	GIRT SPACING
6	PARTITION PLAN
7	RAFTER PLAN
7.1	RAFTER DETAILS
8	ROOF PLAN

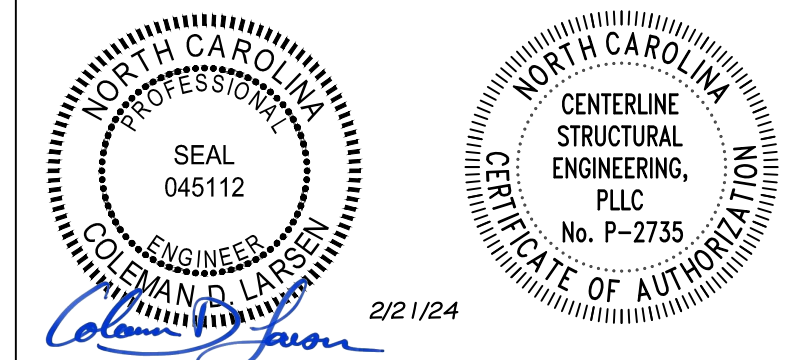
BUILDING LOADS

CODE: NCBC 18 (IBC 15)
 DEAD LOAD: 2.0 psf.
 COLLATERAL LOAD: 1.0 psf.
 LIVE LOAD: 20.0 psf. (MAX)
 GROUND SNOW LOAD: 15.0 psf. (MAX)
 ROOF SNOW LOAD: 12.6 psf. (MAX)
 WIND SPEED: 117 mph.
 CLOSED / OPEN: Closed
 EXPOSURE: C
 IMPORTANCE - WIND: 1.00
 IMPORTANCE - SEISMIC: 1.00
 IMPORTANCE - SNOW: 1.00
 SEISMIC CATEGORY: C
 SEISMIC COEFFICIENT: 0.28
 SEISMIC S1: 0.084
 SEISMIC Sds: 0.187
 SEISMIC Sd1: 0.134
 SEISMIC BASE SHEAR: 0.667*le*Fa*Ss*W/R
 INTERNAL WIND COEFFICIENT: -0.18 / +0.18
 OCCUPANCY: II - Normal

CONFIDENTIAL AND PROPRIETARY INFORMATION

THE INFORMATION AND DESIGNS CONTAINED IN THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. NEITHER THIS DESIGN NOR ANY INFORMATION CONTAINED IN THIS DRAWING MAY BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT.

Notes:



REV: DESCRIPTION: BY: DATE:
 STATUS: CONSTRUCTION ISSUE

12226-33770-BR1



SITE: FUQUAY VARINA
 NC 27526
 TITLE: 40' x 325' x 16"-0" HS
 SIZE: 1 of 8
 DATE: 02/16/24
 DRAWN: NMB
 CHECKED: ALI
 SHEET NO: 12226-33770-BR1
 REVISION:

SHEET ABBREVIATIONS

RL	29 Ga. SSX LINER PANEL
RR	26 Ga. SSX ROOF PANEL
RW	26 Ga. SSX WALL PANEL
ML	29 Ga. LRX LINER PANEL
MW	26 Ga. LRX WALL PANEL
RML	29 Ga. REVERSE LR PARTITION PANEL
RMW	26 Ga. REVERSE LRX WALL PANEL
SSR	SSII 24 Ga. SSR PANEL

SSR ABBREVIATIONS

SS2BUP 24"	24" BACK UP PLATE
SS2ED 24"	24" OUTSIDE CLOSURE
EP7600	EAVE PLATE - LOW
HW-7616	EAVE PLATE - HIGH
HW-200	FIXED CLIP - LOW
HW-204	FIXED CLIP - HIGH
HW-426	INSIDE CLOSURE
CS324	CINCH STRAP
GS501	GUTTER STRAP
SS2RSLG	RAKE PLATE - LOW
SS2RSLG	RAKE PLATE - HIGH

TRIM ABBREVIATIONS

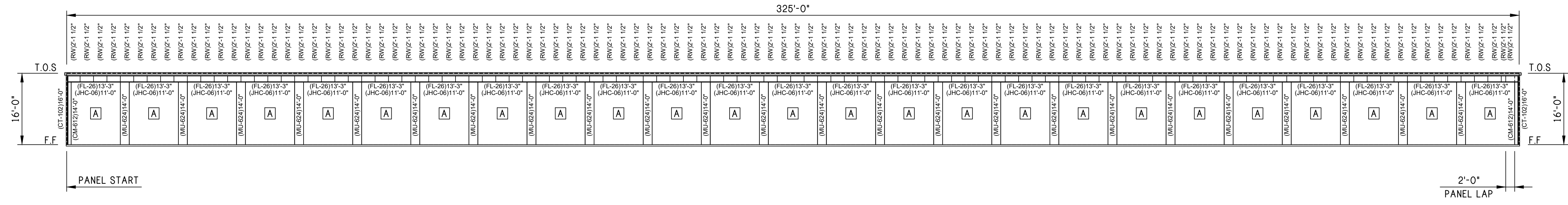
DFR	DIE FORMED RIDGE CAP
MT-134	DOOR JAMB COVER
DS-101	DOWNSPOUT WITH DIVERTER
DSS-105	DOWNSPOUT STRAP
JHC-06	DOOR HEADER COVER
ET-80	EAVE TRIM
FL-134	RAKE END
GS-501	GUTTER STRAP
FL-17	HALF MULLION COVER
CM-406	HIGH SIDE EAVE TRIM
IA	HEAD TRIM
ICT-801	INSIDE ANGLE
ICB	INSIDE CORNER
ISCL	INSIDE CORNER BOX
JT-101	INSIDE CLOSURE
MU-412	JAMB TRIM
MU-424	12" MULLION COVER
OA	24" MULLION COVER
CT-102	OUTSIDE ANGLE
FL-16C	OUTSIDE CORNER
OSCL	OUTSIDE CORNER BOX
FL-125	OUTSIDE CLOSURE
FL-125	PEAK BOX
MT-139	PARTITION TOP TRIM
FL-240A	GUTTER
FL-110	RAKE TRIM
SSC	SILICONE SEALANT CAULK
MT-101	RAKE PLATE - LOW
WT-101	RAKE PLATE - HIGH
	RAKE PLATE - LOW
	RAKE PLATE - HIGH
	WAINSCOT TRIM

FASTENER ABBREVIATIONS

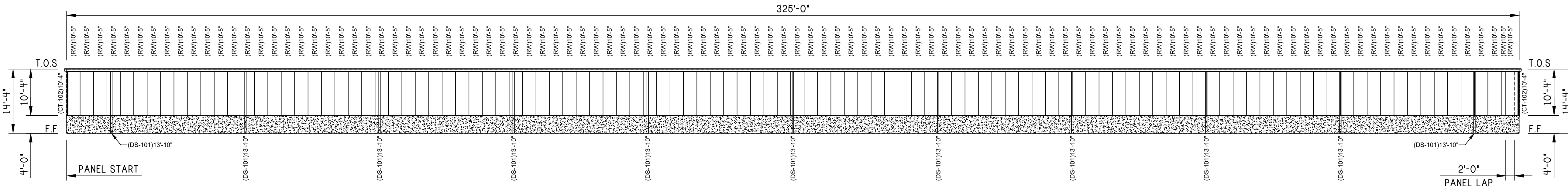
SB	1/2" x 3" SCREW BOLT - DeWalt	BASE TO SLAB CONNECTIONS
	SCREW-BOLT + (PFM1411380)	
DP	1/4" x 1 1/4" DRIVE PIN	BASE TO SLAB CONNECTIONS
MFS058NW	*10 x 5/8" SD NO WASHER	SPECIAL TRIM CONNECTIONS
SD100NW	*12 x 1" SD	STRUCTURAL STEEL CONNECTIONS
MFS114	*12 x 1 1/4" SD	WALL SHEETING
MFSZAC114	*12 x 1 1/4" LONG LIFE SD	ROOF SHEETING
LS078	*14 x 7/8" LAP SCREW	WALL PANEL LAP
LSZAC078	*14 x 7/8" LONG LIFE LAP SCREW	ROOF PANEL LAP
PR	1/8" POP RIVET	TRIM CONNECTIONS
MFS0100	*17-14 x 1" SELF TAPPING	SS-II END LAP ATTACHMENT
MFS0112	1/4"-14 x 1 1/2" SD	SS-II CLIP ATTACHMENT

Notes:

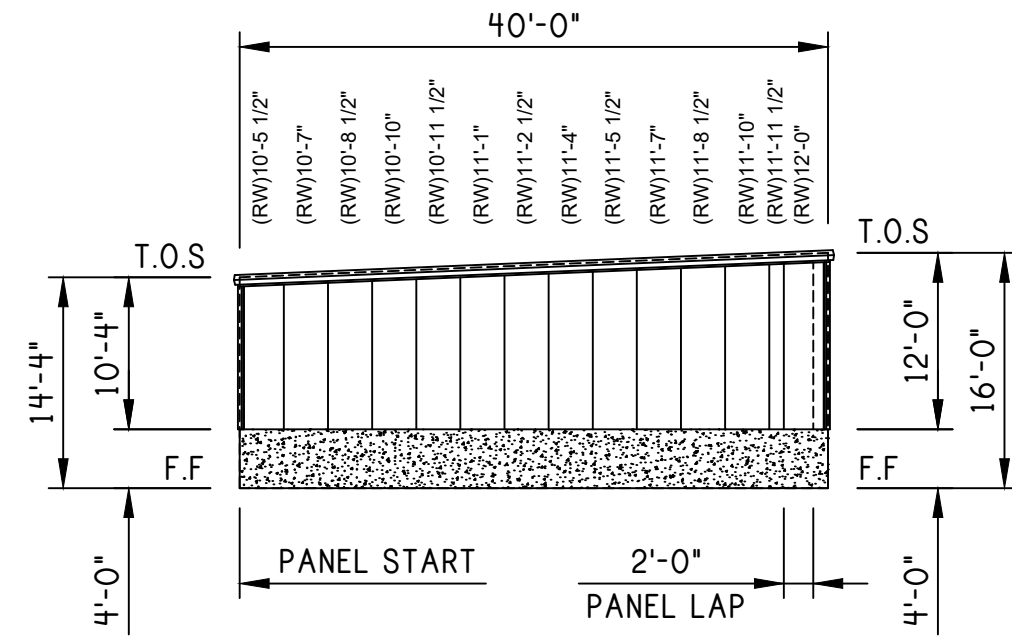
DOOR SCHEDULE
A (25) 11'-0" X 14'-0" FRAMED OPENINGS.



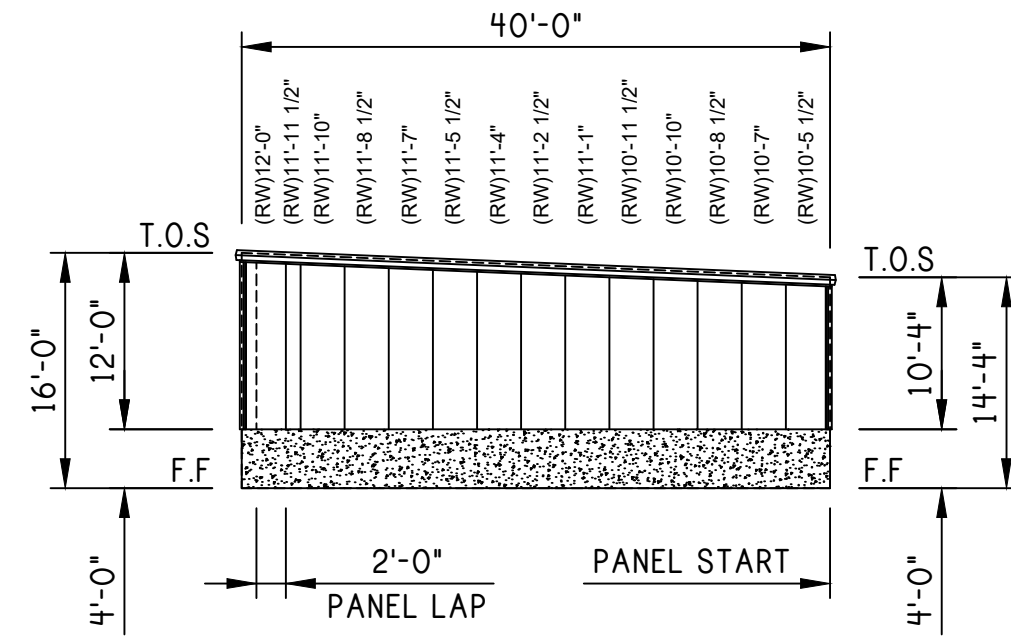
FRONT ELEVATION



REAR ELEVATION

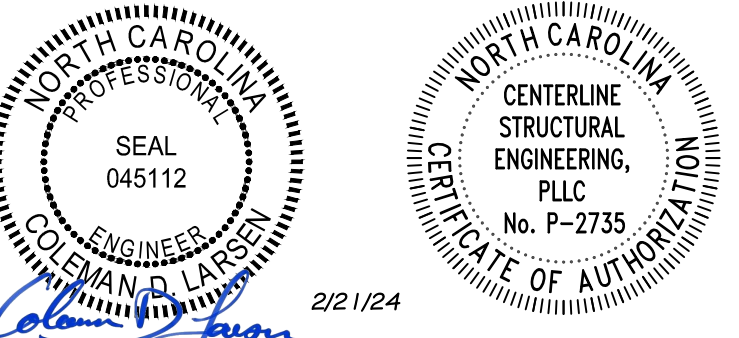


LEFT ELEVATION



RIGHT ELEVATION

EXTERIOR ELEVATIONS



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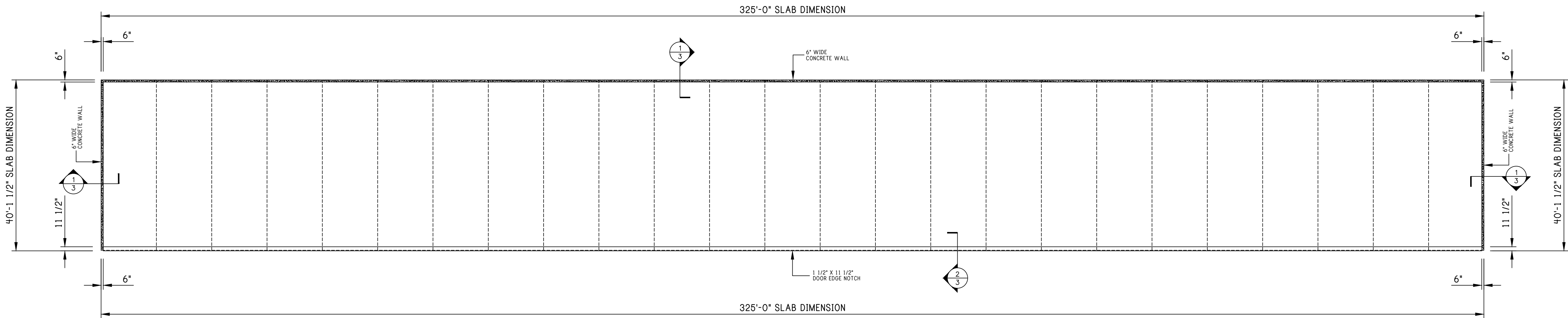
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TITLE: 40' x 325' x 16"-0" HS

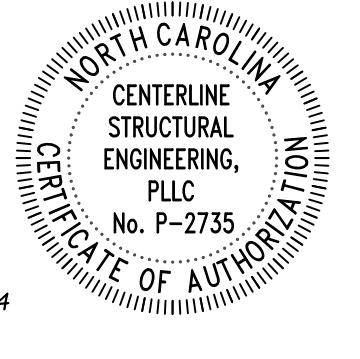
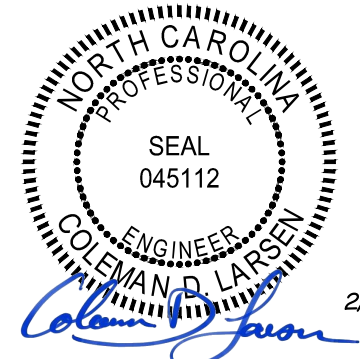
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SHEET NO: 2 of 8	DRAWING NO: 12226-33770-BR1	REVISION:	

Notes:

1. FOUNDATION DESIGN AND CONSTRUCTION ARE NOT RESPONSIBILITY OF THE BUILDING MANUFACTURER.
2. THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES UPON THE FOUNDATION.



SLAB PLAN



2/21/24

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12226-33770-BR1

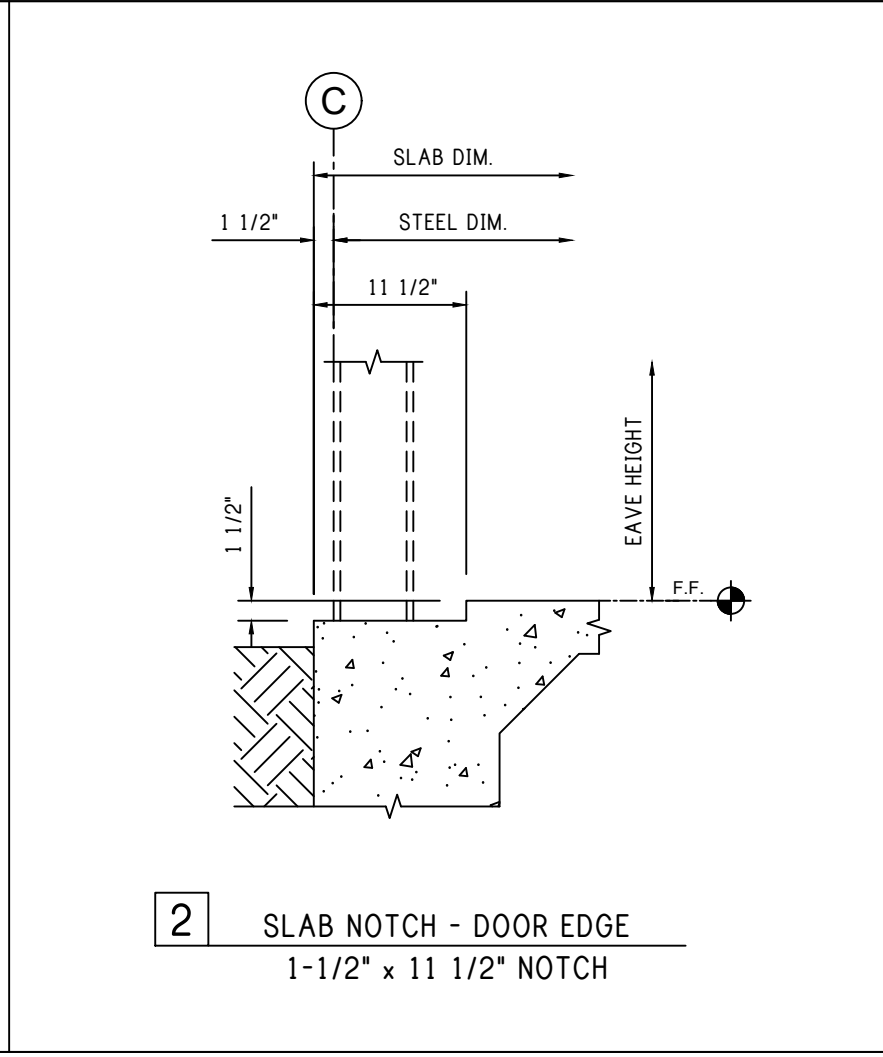
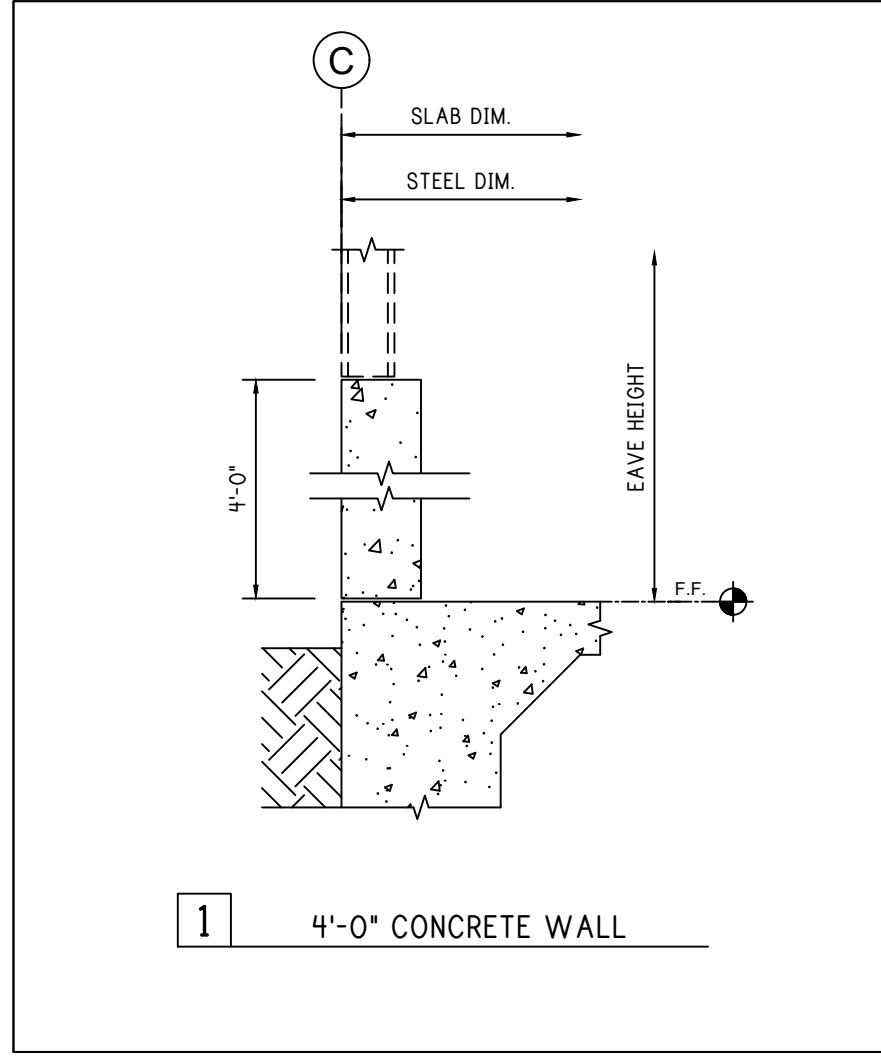


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Madison, GA 30650
Phone: (844) 333-7325
Fax: (706) 343-1968

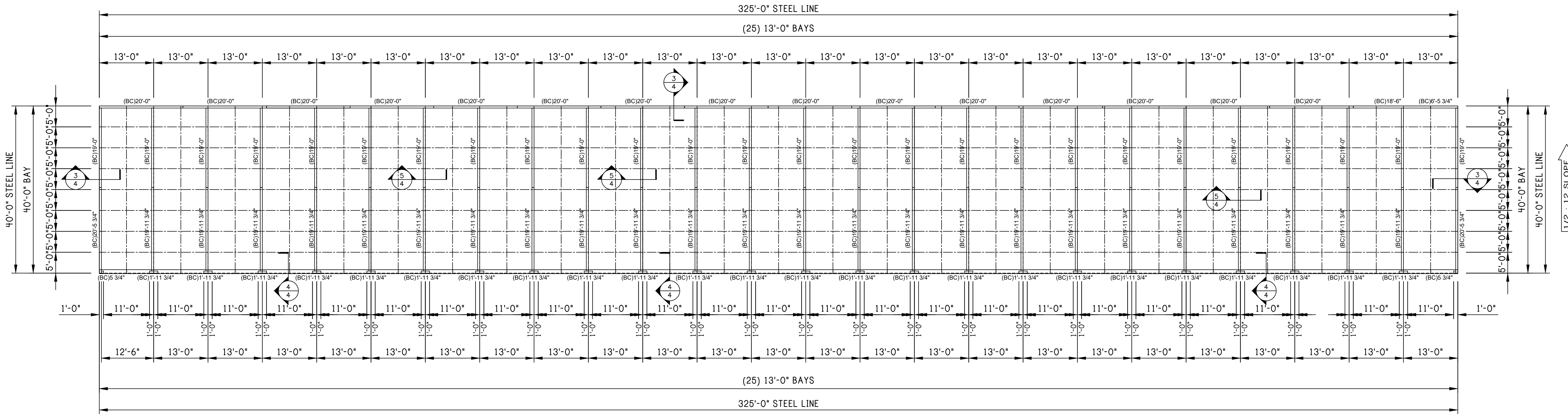
SITE: FUQUAY VARINA
NC 27526

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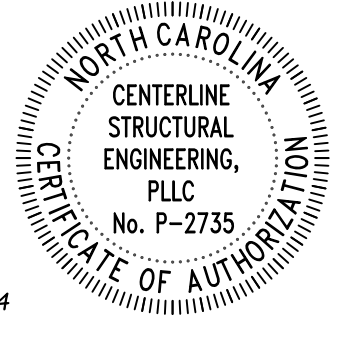
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Notes:



FLOOR PLAN



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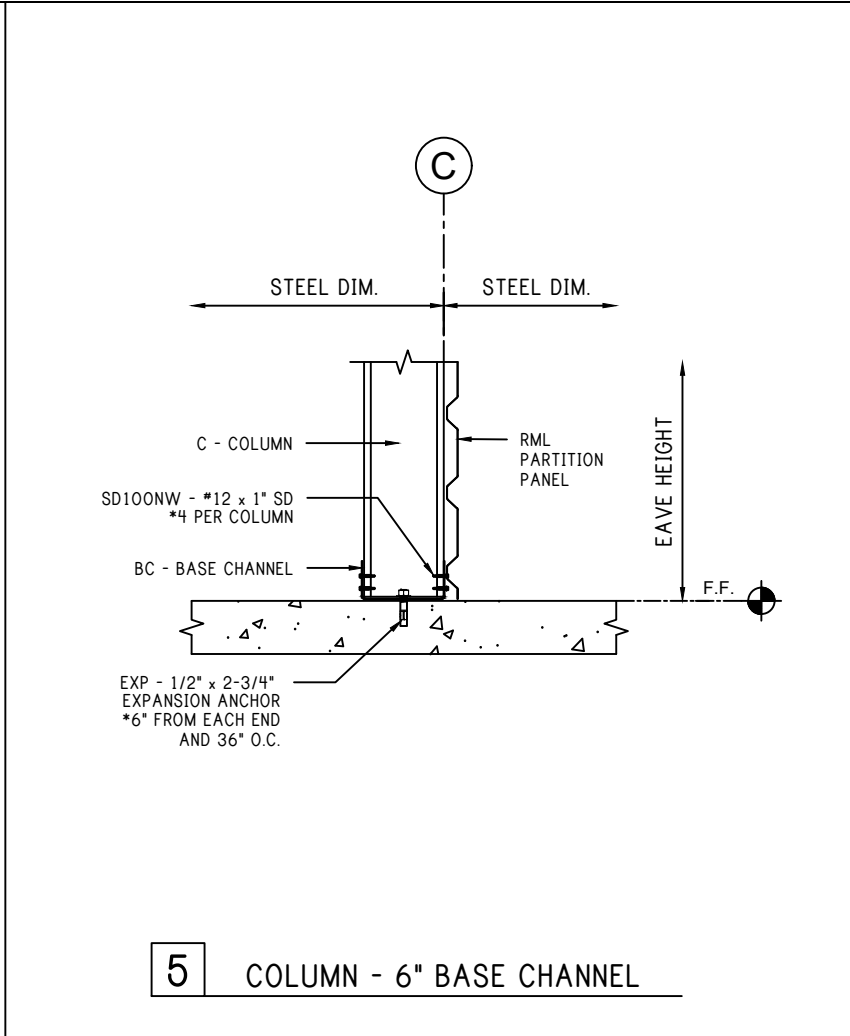
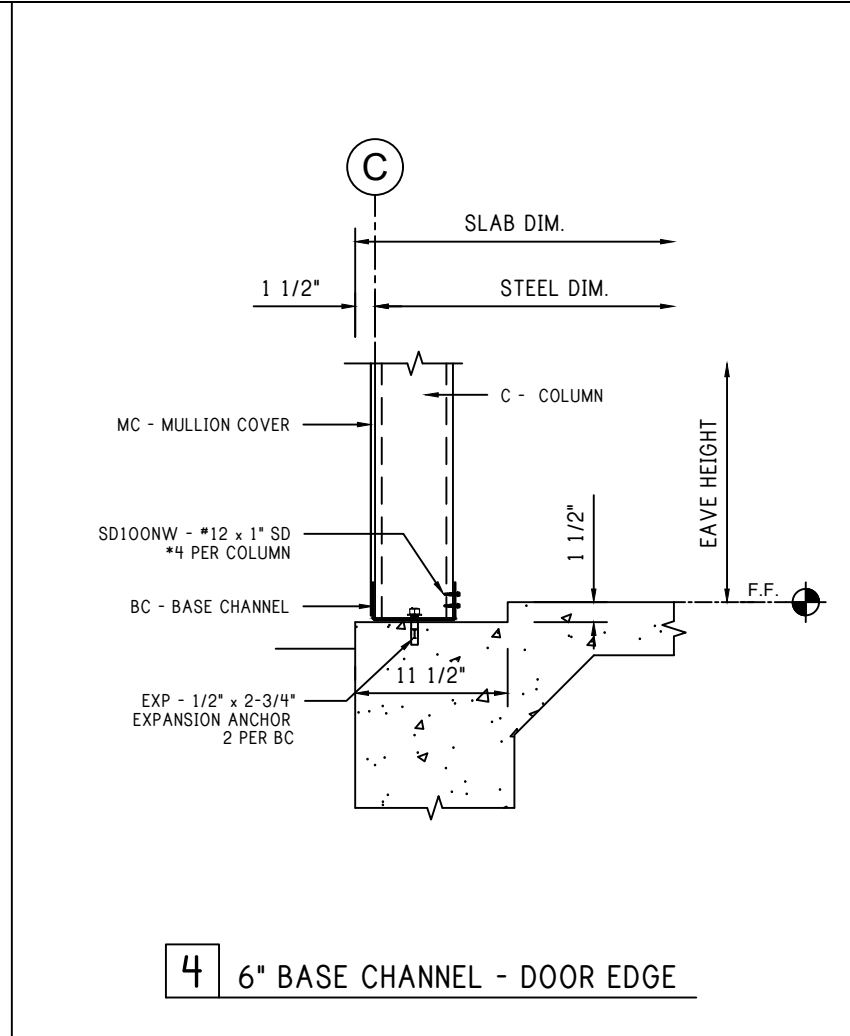
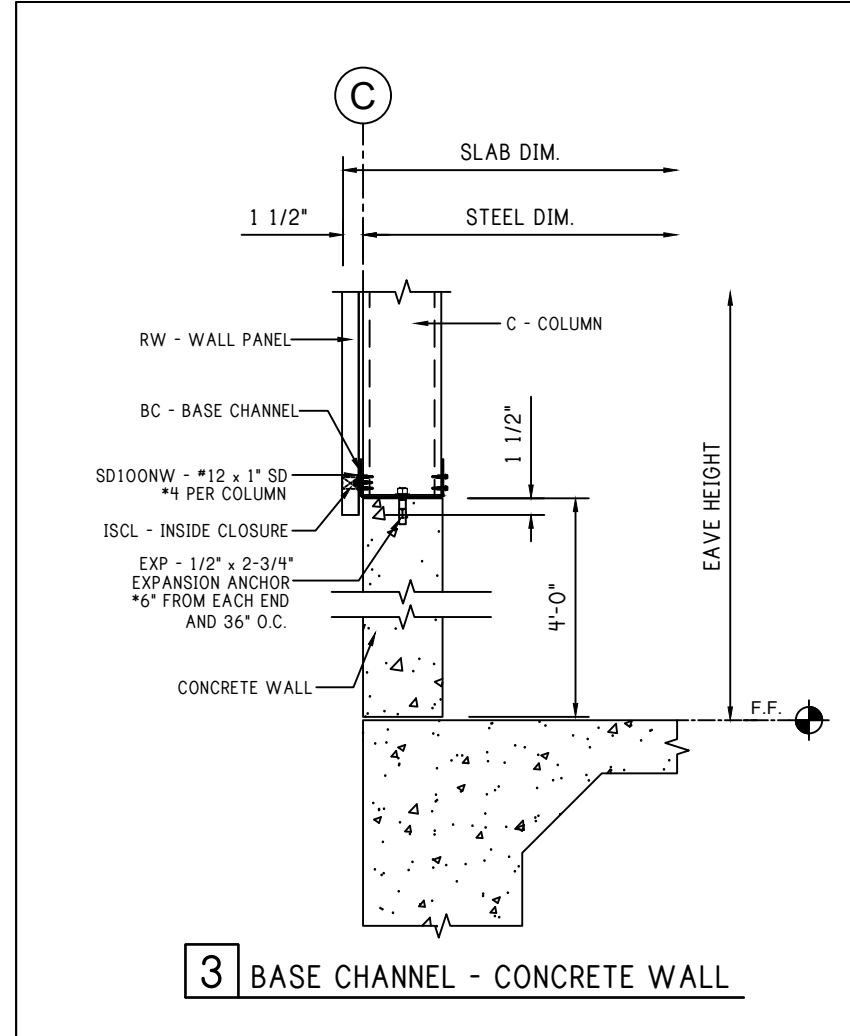


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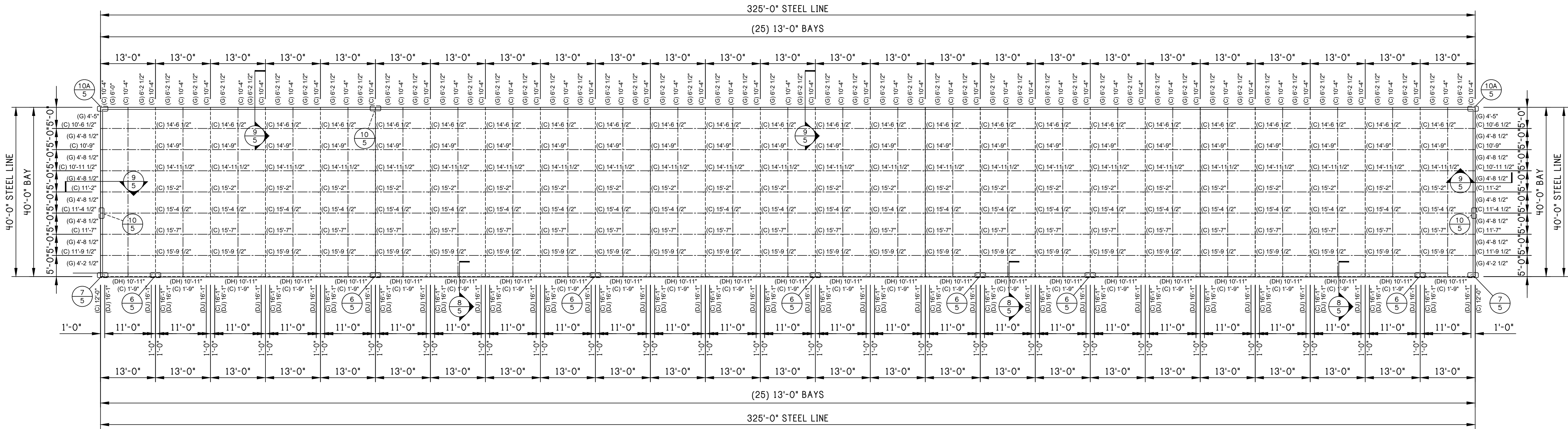
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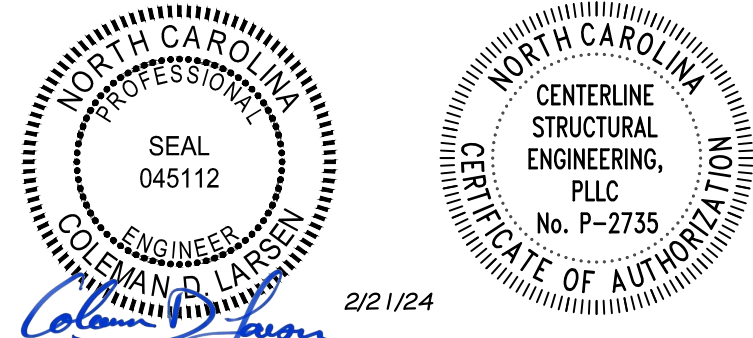
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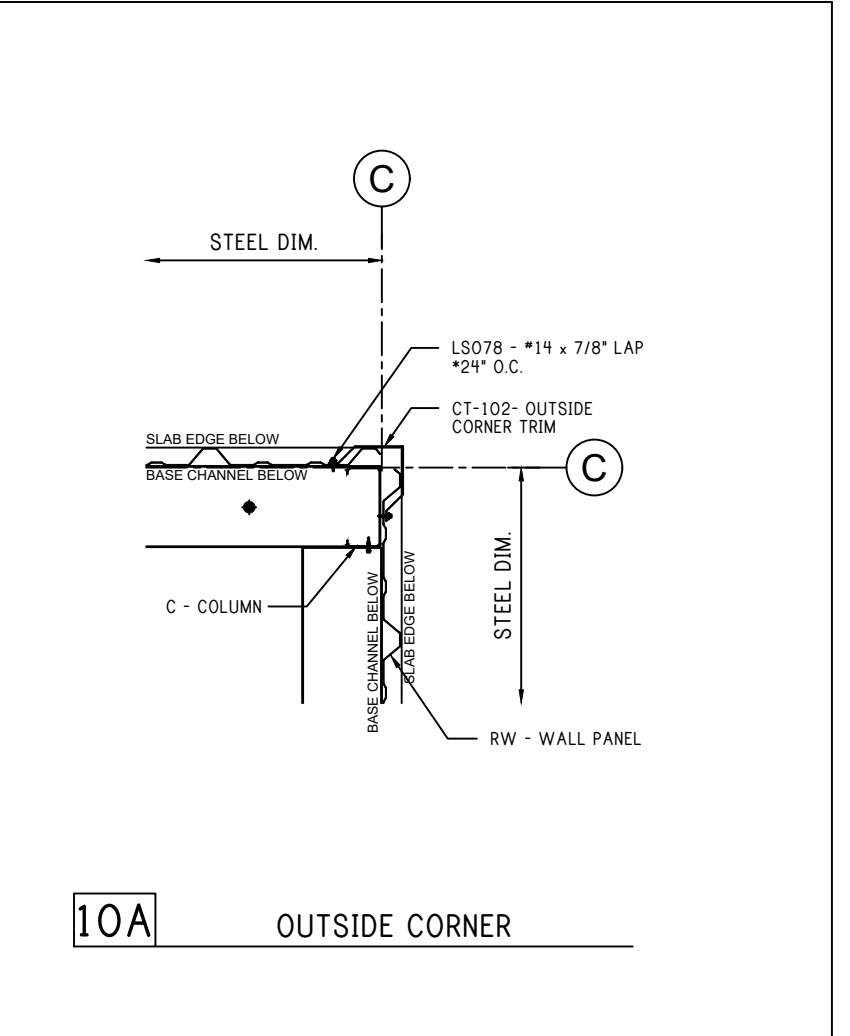
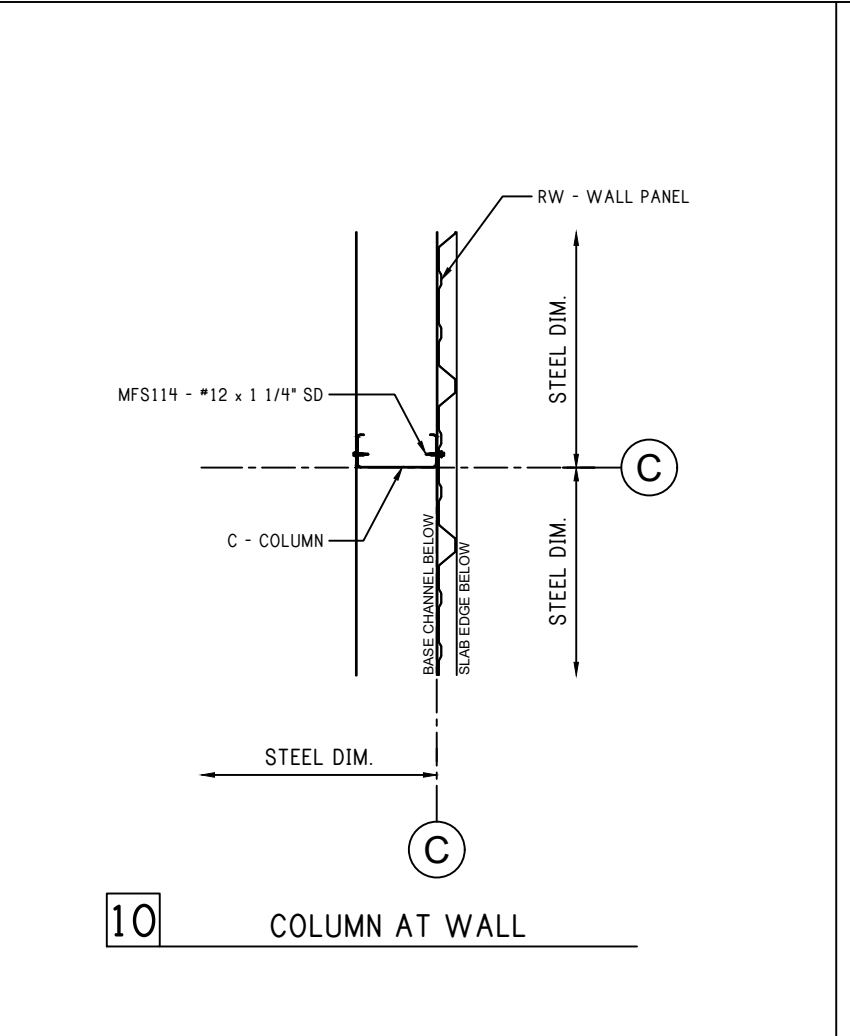
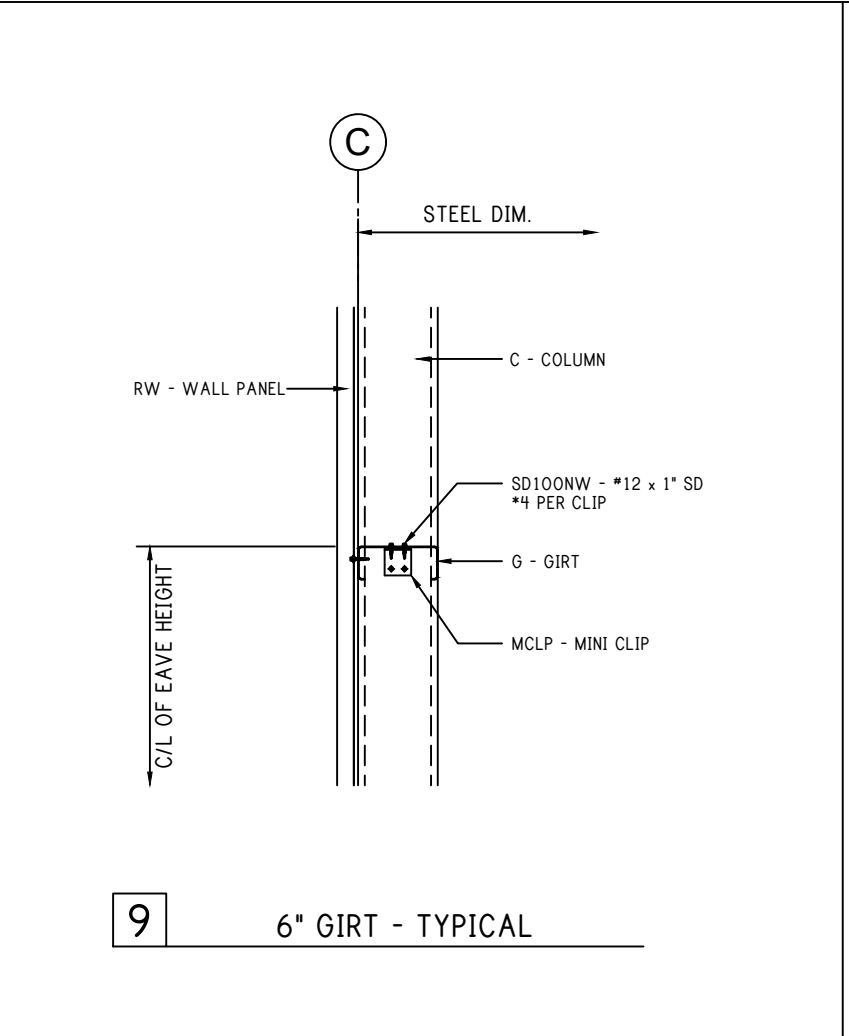
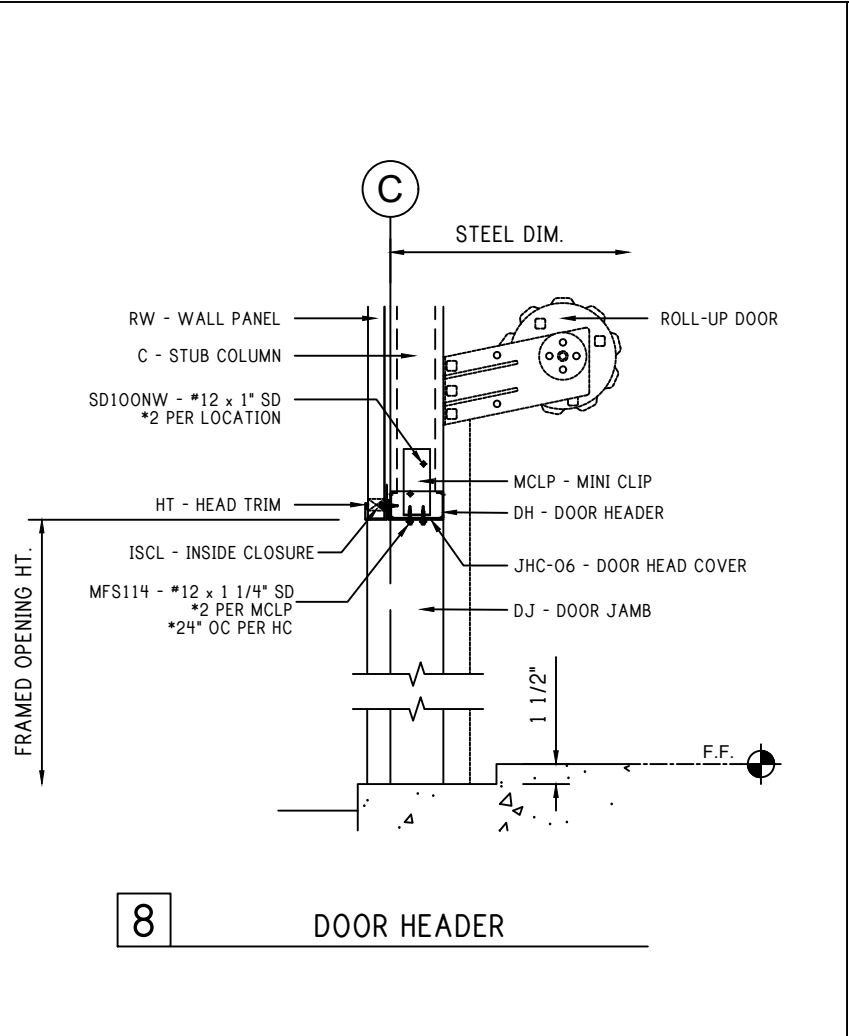
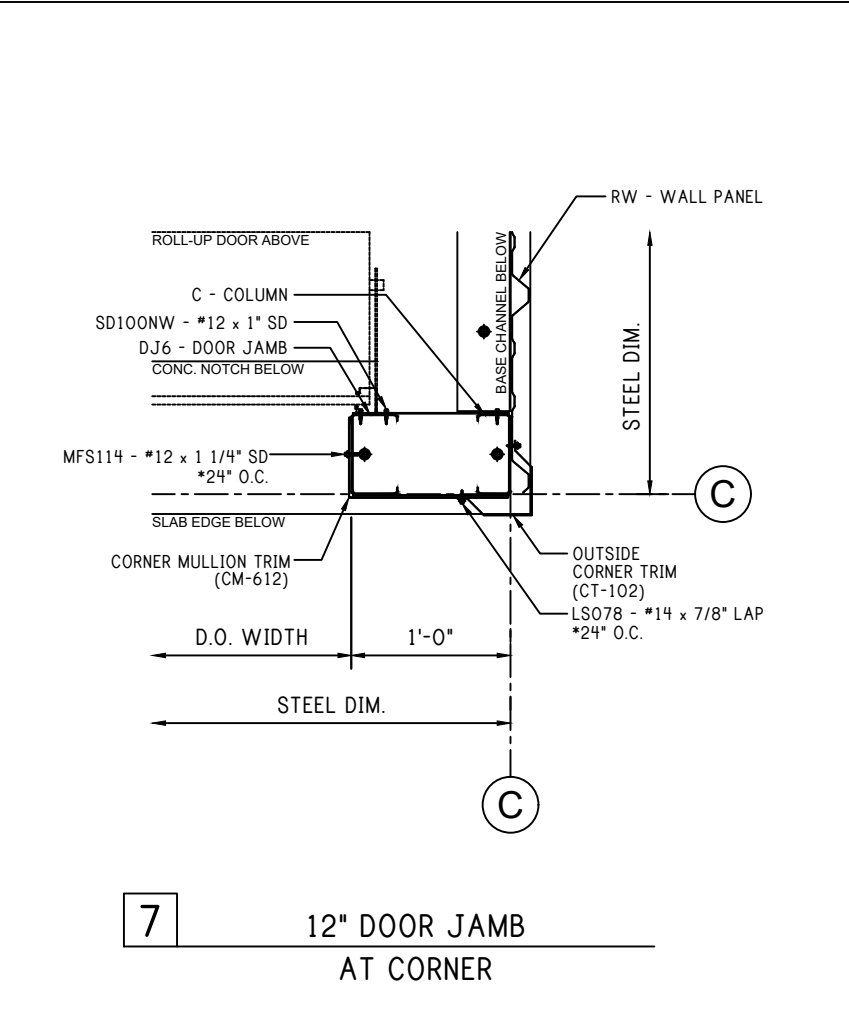
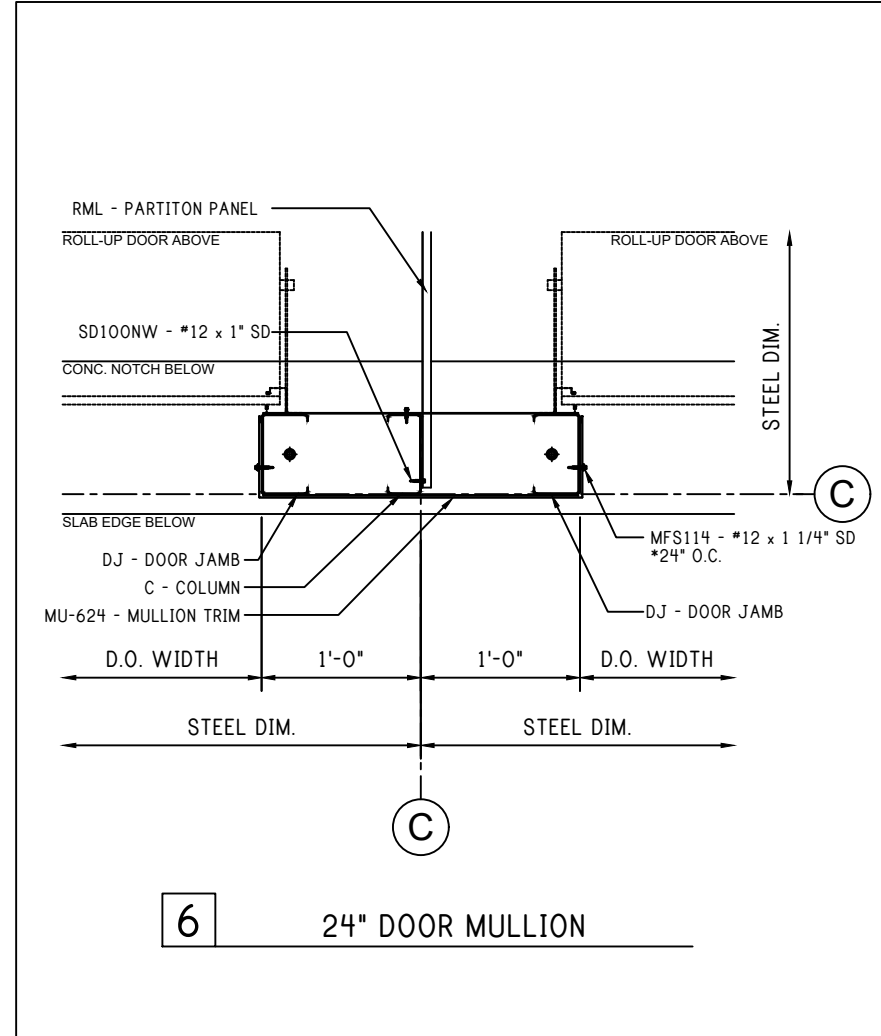
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FRAMING PLAN



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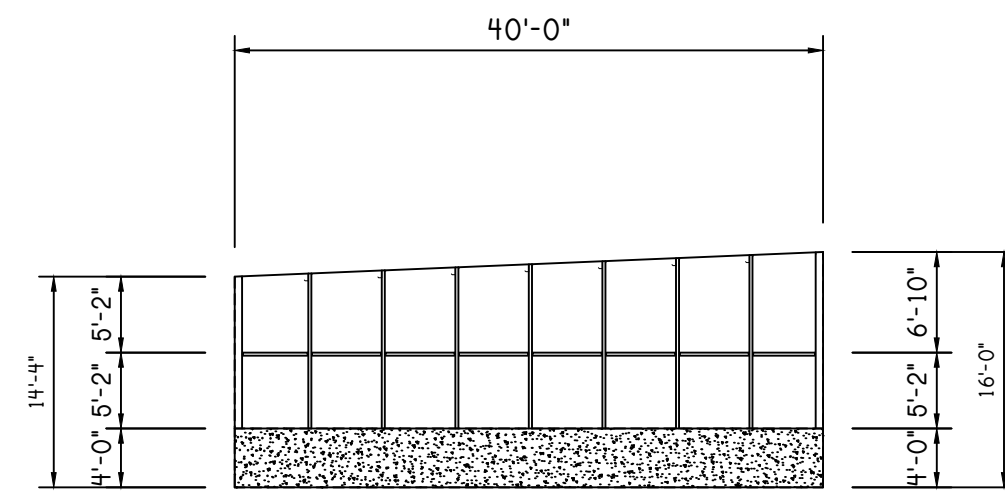


SITE: FUQUAY VARINA NC 27526

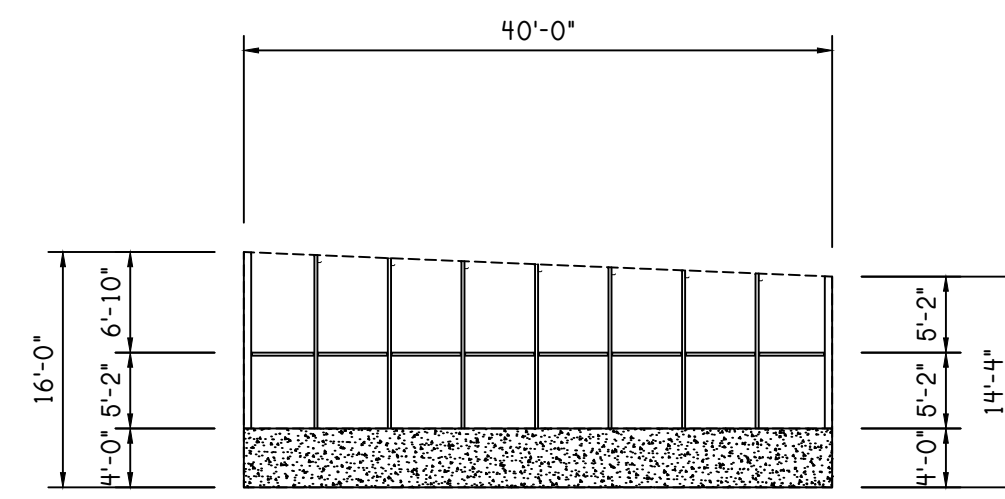
TITLE: 40' x 325' x 16"-0" HS

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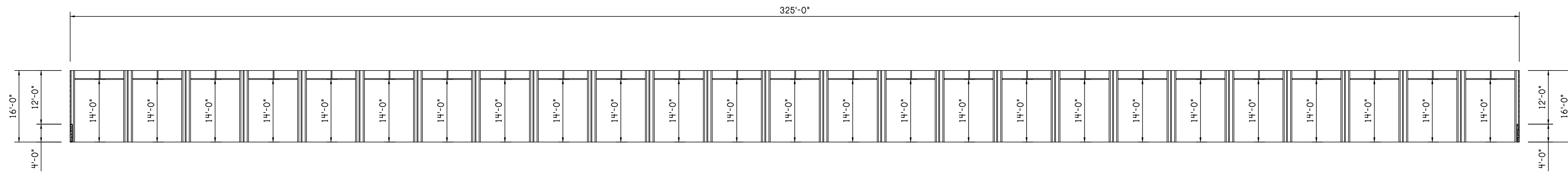
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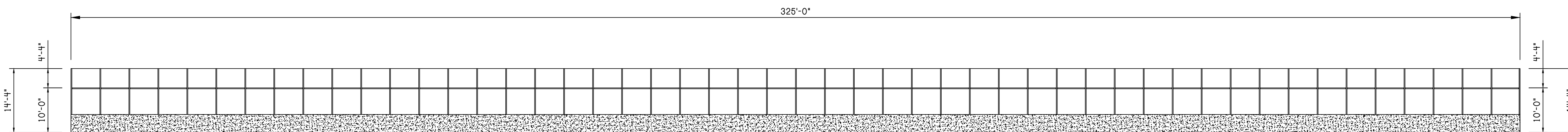
LEFT ELEVATION



RIGHT ELEVATION

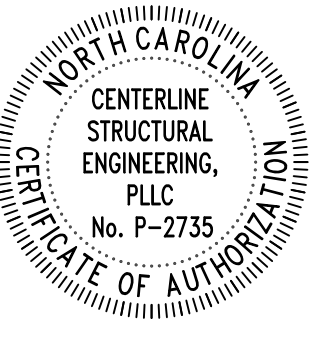
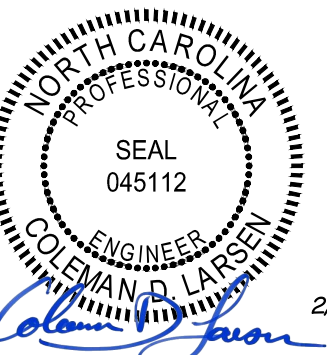


FRONT ELEVATION



REAR ELEVATION

GIRT SPACING



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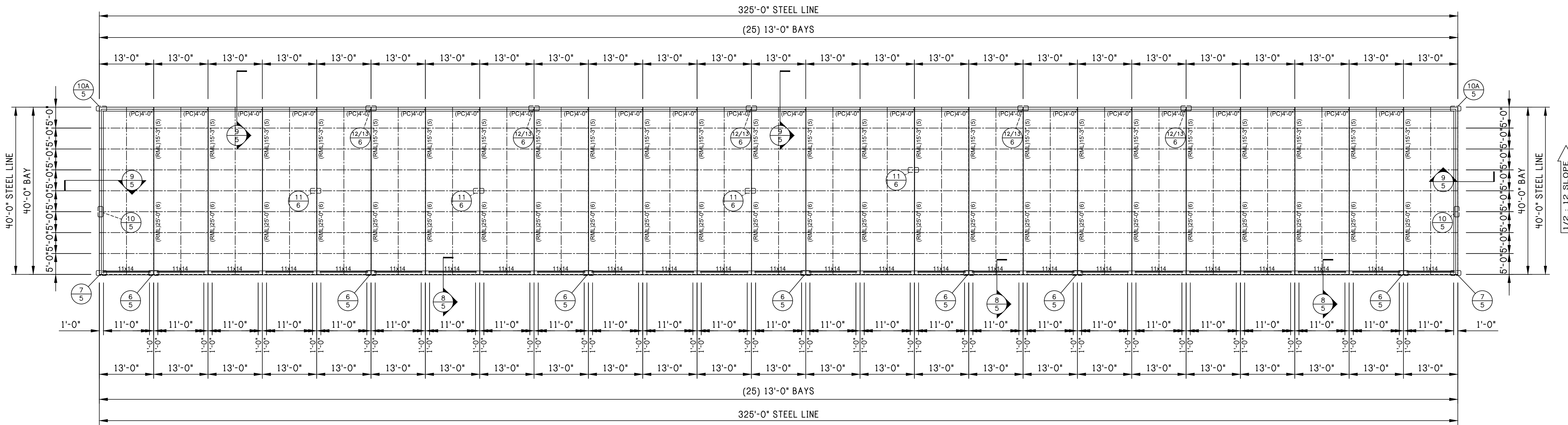
PEAK STEEL
CLIENT: P.O. BOX 1275
Madison, GA 30650
Phone: (844) 333-7325
Fax: (706) 343-1968

SITE: FUQUAY VARINA
NC 27526

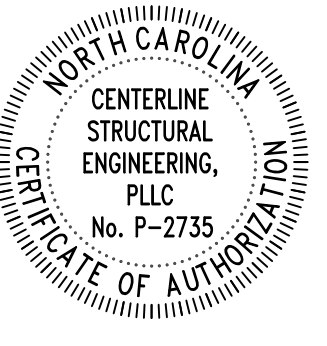
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Notes:



PARTITON PLAN



REV: DESCRIPTION: BY: DATE:
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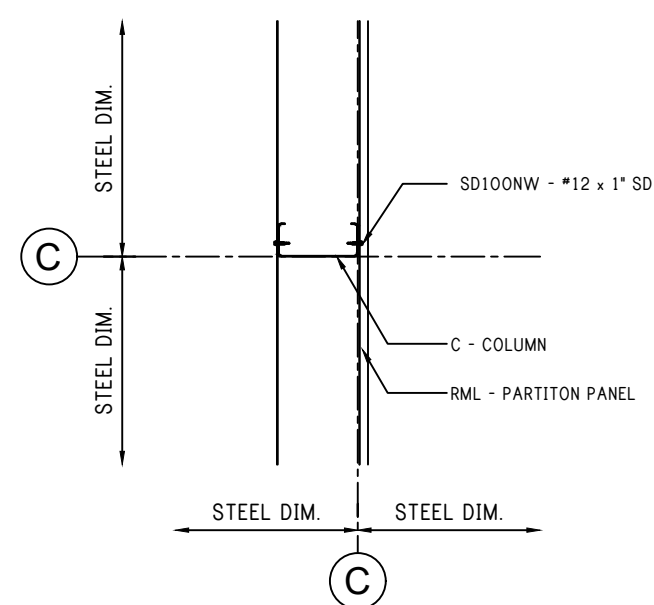


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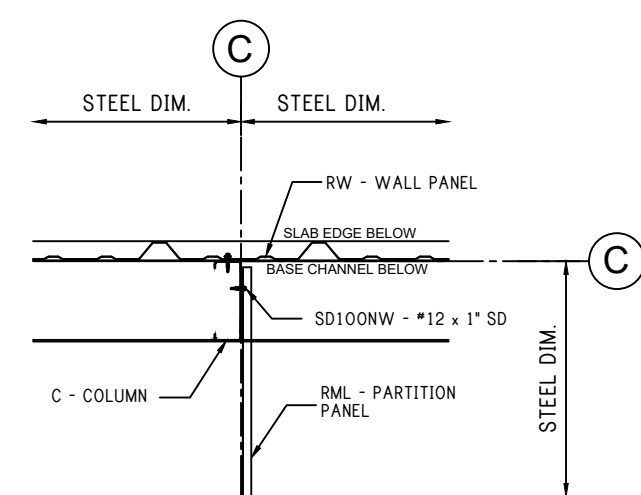
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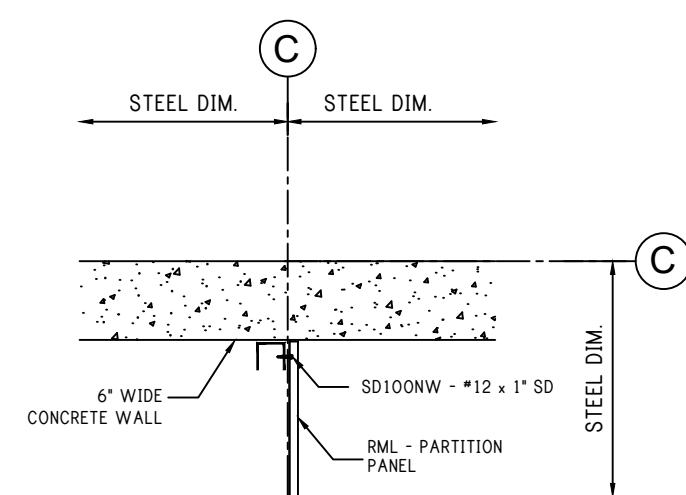
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11 CHANNEL AT COLUMN

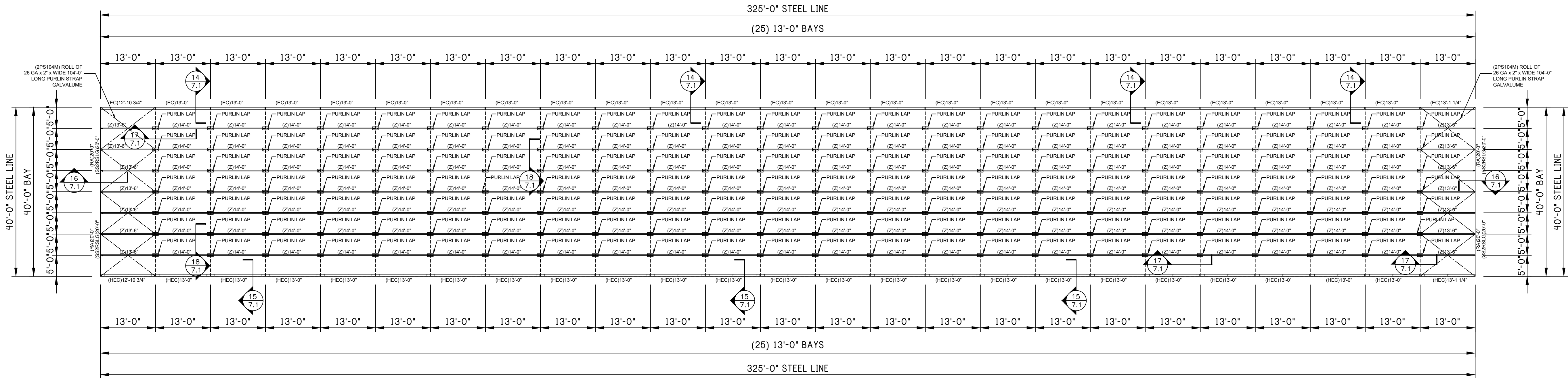


12 PARTITION AT WALL



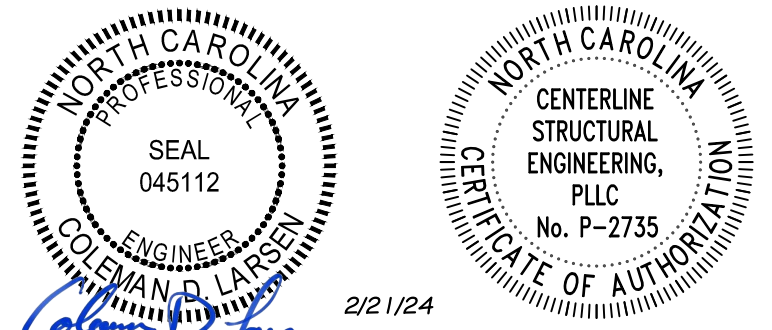
13 PARTITION AT WALL

Notes:



RAFTER PLAN

NOTE : ADD STRAPPING (502PS104M) IN EACH 25'-0" BAY FROM FRONT SIDE WALL TO BACK SIDE WALL. SEE STRAPPING DETAIL BELOW (PAGE 7.1) USE THE SAME STRAPPING TO CREATE X-BRACING THAT WILL TERMINATE INTO THE SHEAR WALLS. THE X CAN TIE IN EVERY OTHER PURLIN SPACE EXCEPT THAT IT WILL NEED TO TERMINATE A AN INTERIOR WALL AS SHOWN.



REV:	DESCRIPTION:	BY:	DATE:
STATUS:	CONSTRUCTION ISSUE		

12226-33770-BR1

PEAK STEEL
 CLIENT: P.O. BOX 1275
 Madison, GA 30650
 Phone: (844) 333-7325
 Fax: (706) 343-1968

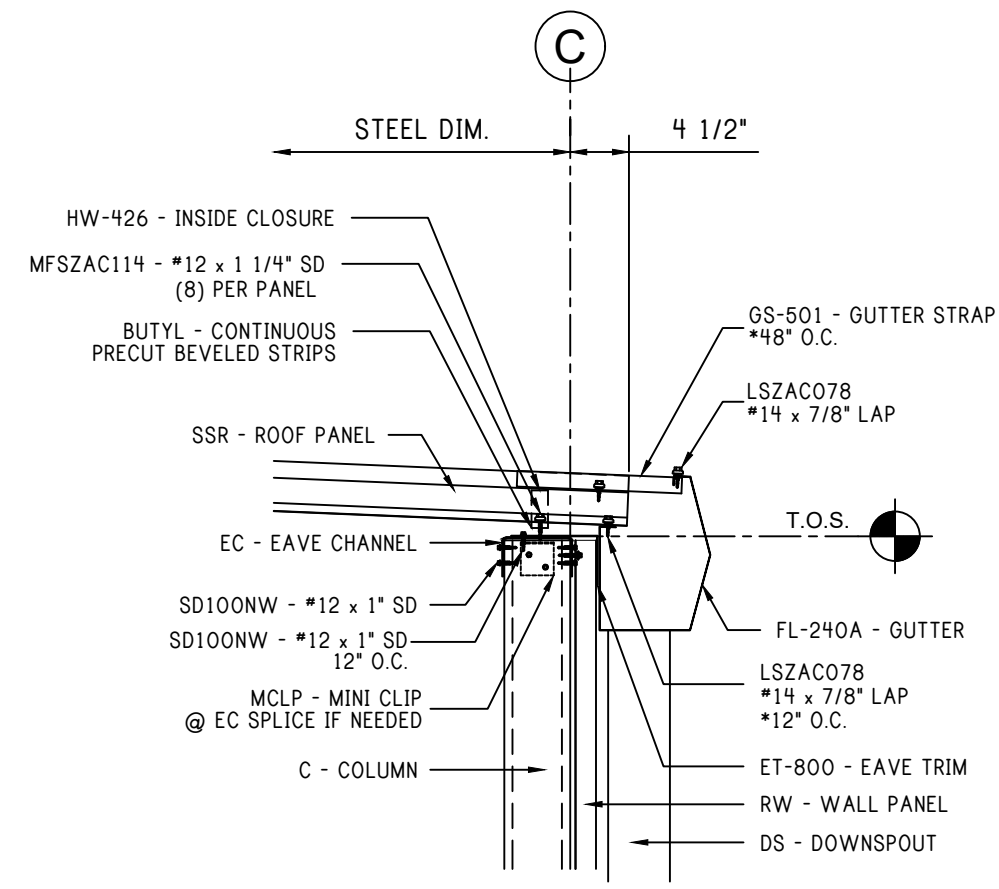
SITE: FUQUAY VARINA
 NC 27526

TITLE: 40' x 325' x 16"-0" HS

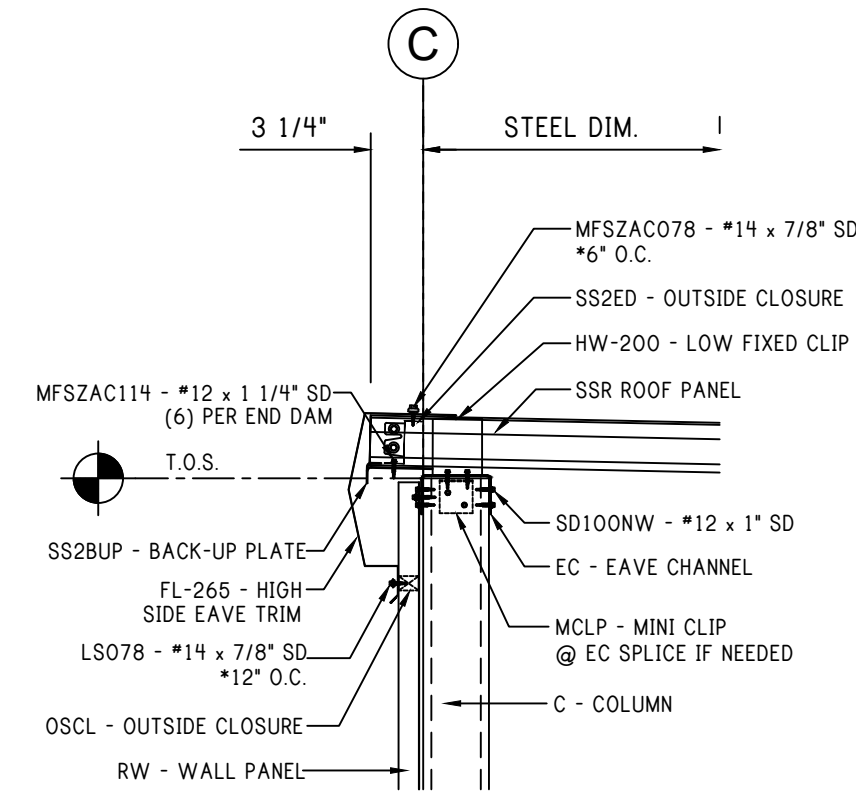
SIZE:	DATE:	DRAWN:	CHECKED:
SHEET NO:	DRAWING NO:	REVISION:	
7 of 8	12226-33770-BR1	NMB	ALI

Notes:

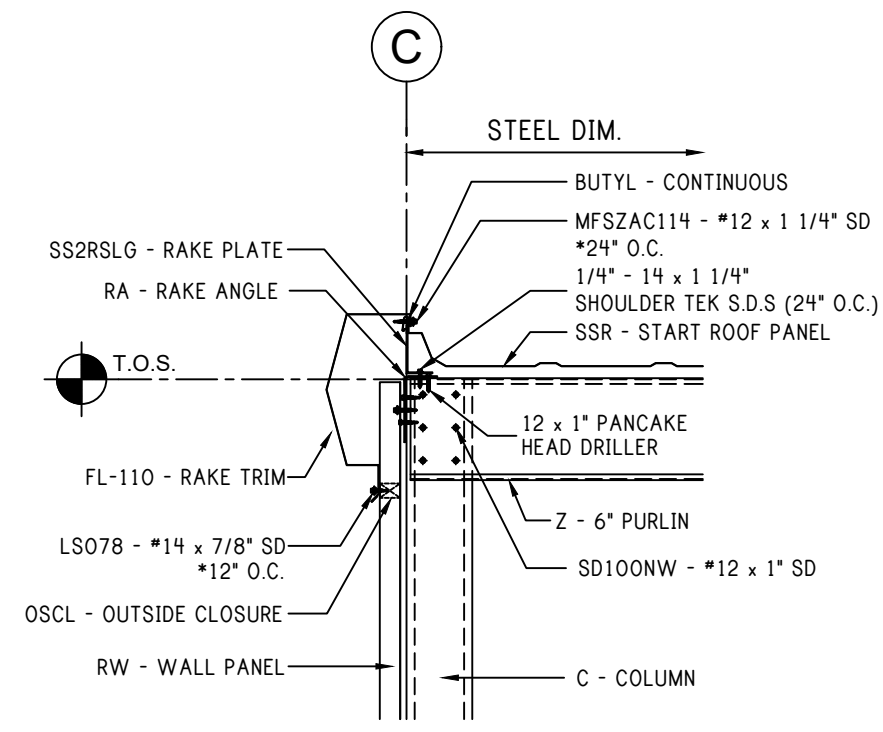
ERECTOR NOTE: FIELD CUT AND BEND END ROOF PANEL AS REQUIRED.



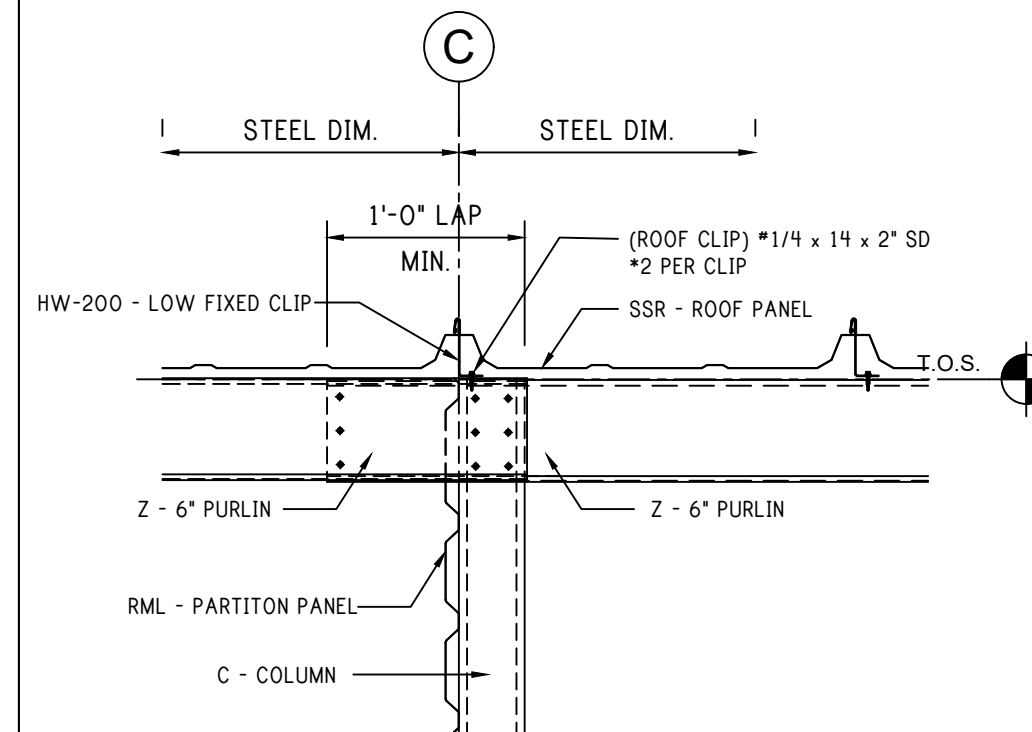
14 LOW EAVE w/ GUTTER



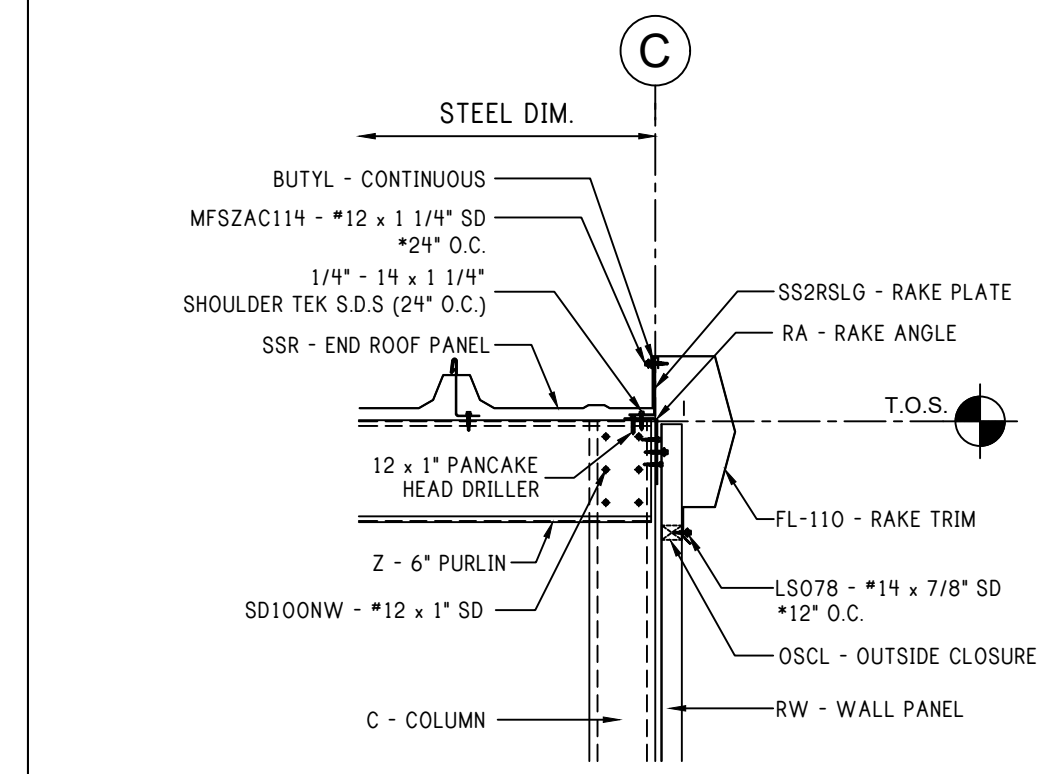
15 HIGH EAVE



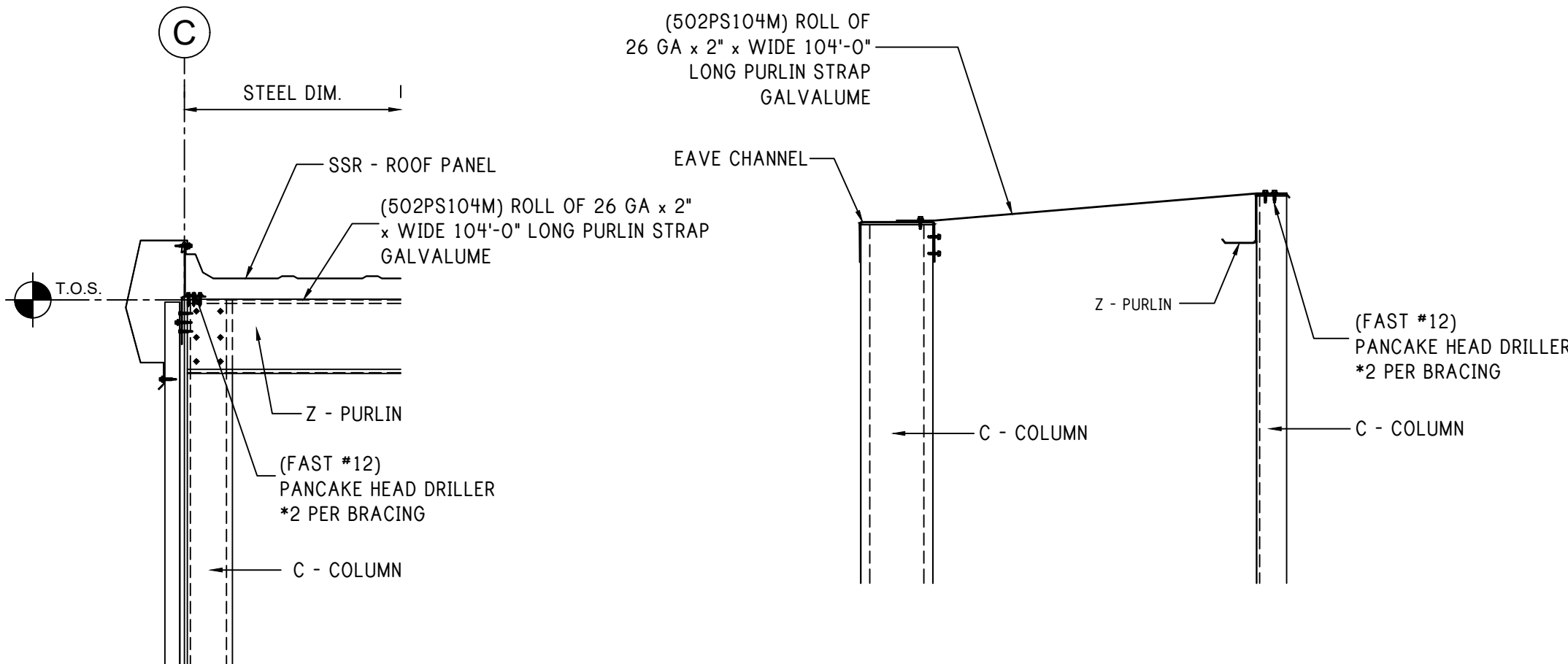
16 RAKE AT 6" PURLIN



17 6" PURLIN LAP SIDE VIEW

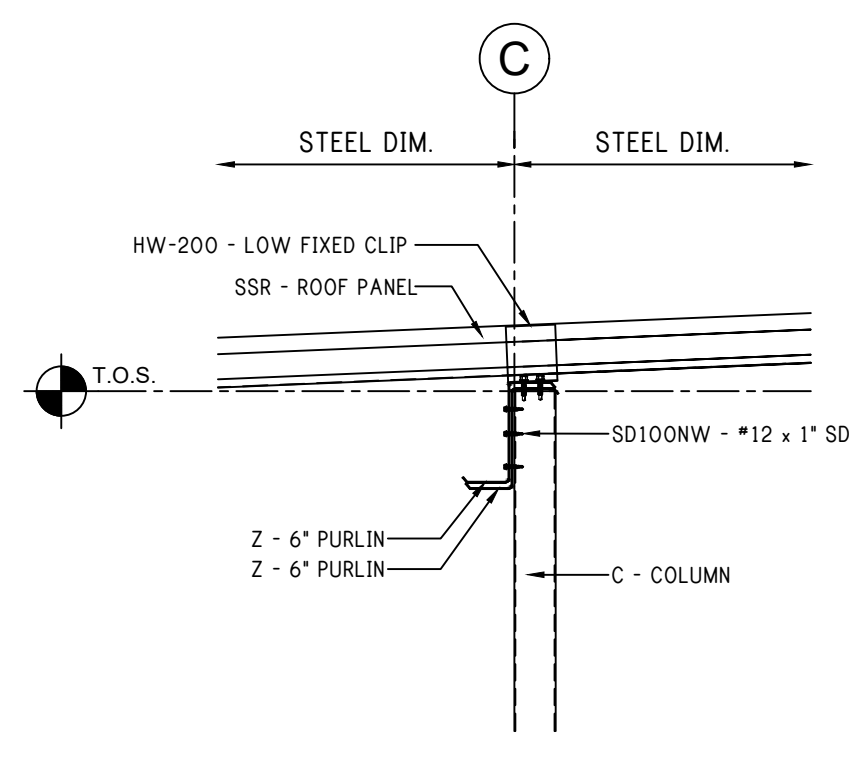


16 RAKE AT 6" PURLIN



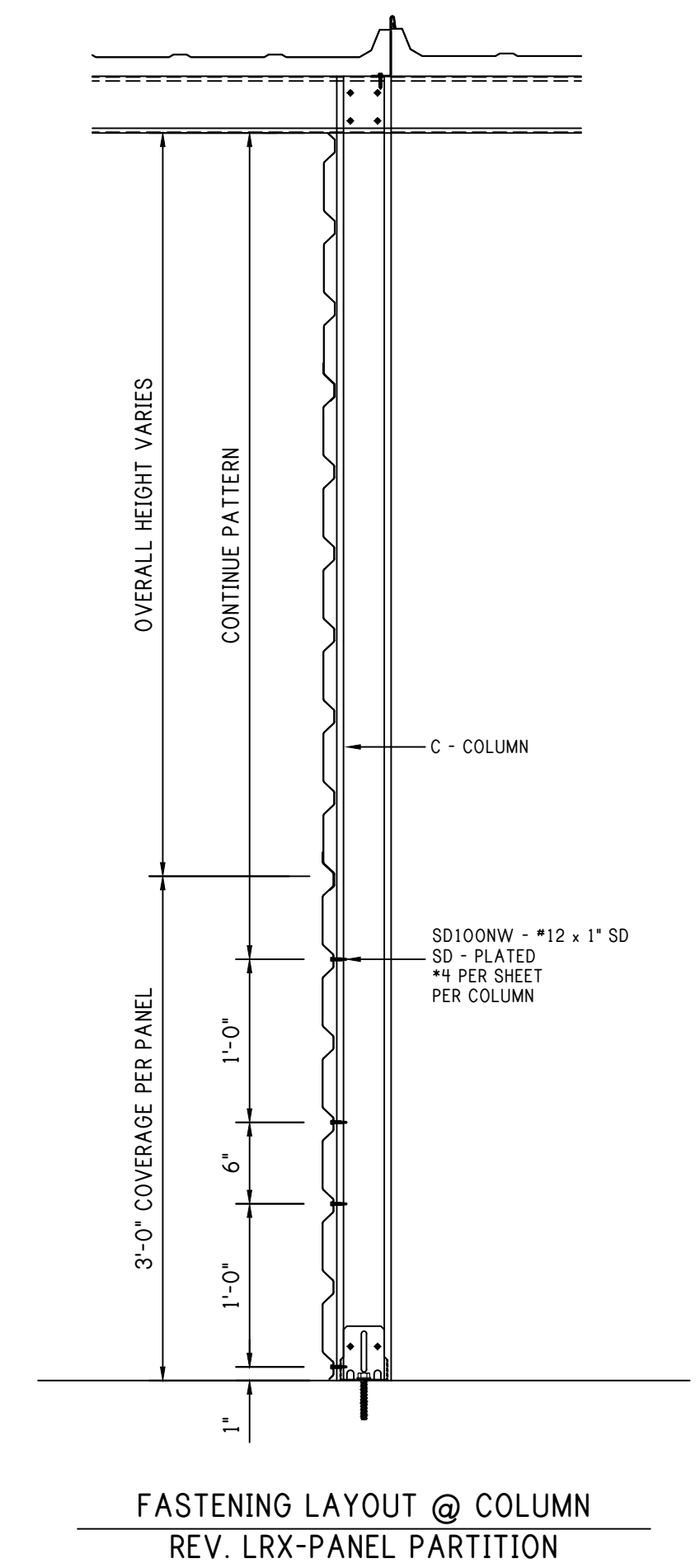
STRAPPING AT EAVE CHANNEL SECTION VIEW

STRAPPING AT RAKE SECTION VIEW

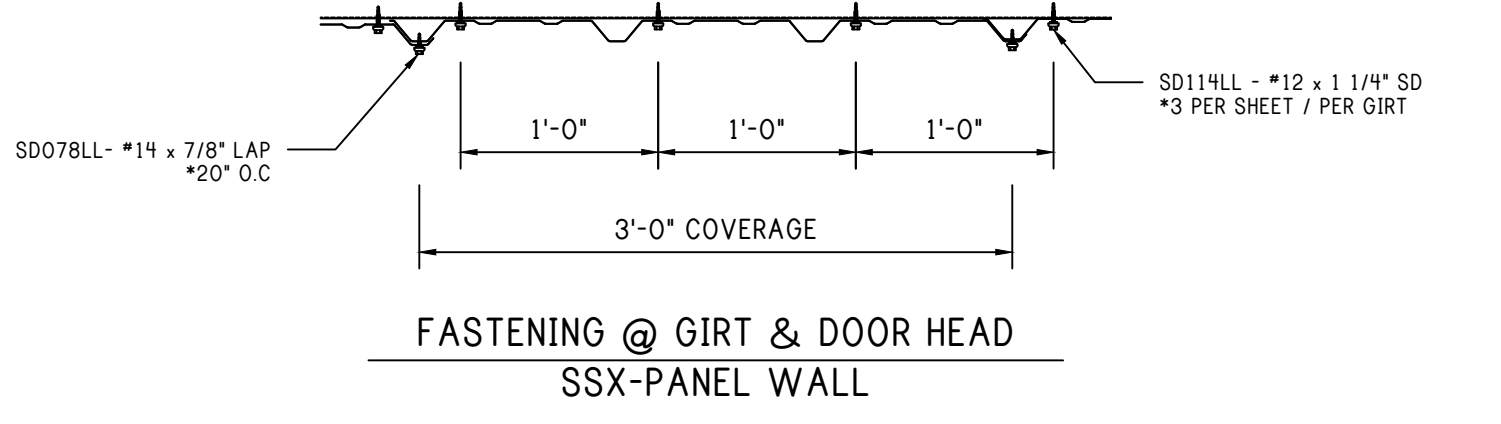


18 6" PURLIN LAP SECTION VIEW

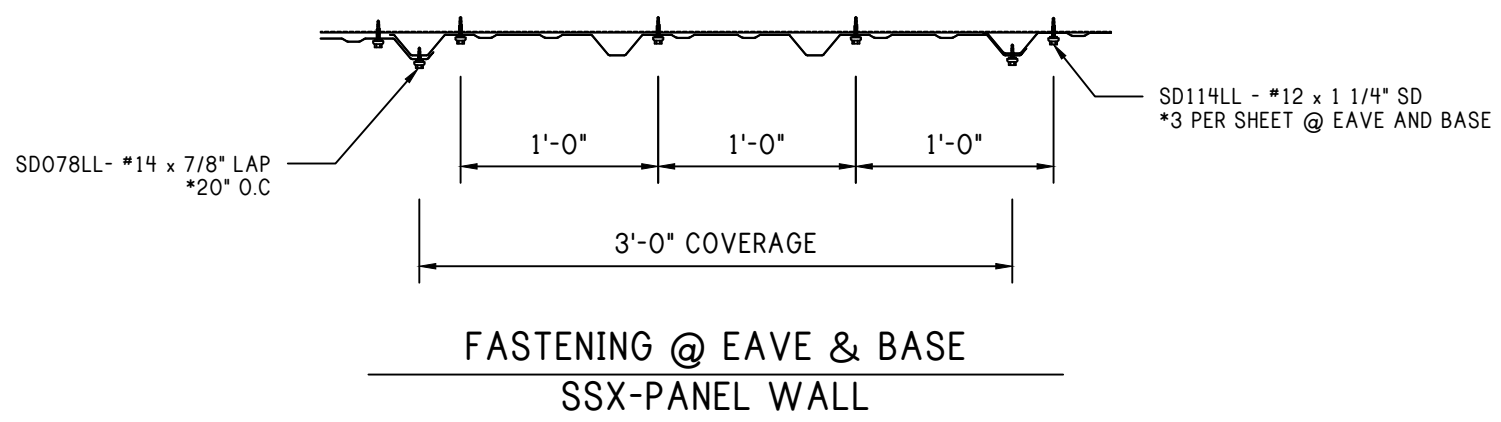
ERECTOR NOTE
TOP PARTITION PANEL MAY BE BACK LAPPED AS NEEDED.



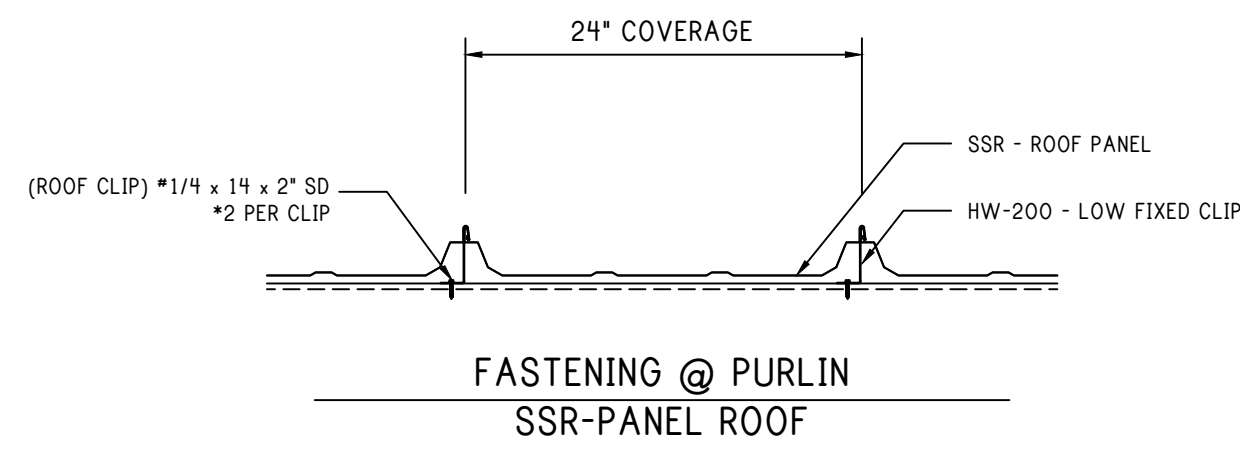
FASTENING LAYOUT @ COLUMN REV. LRX-PANEL PARTITION



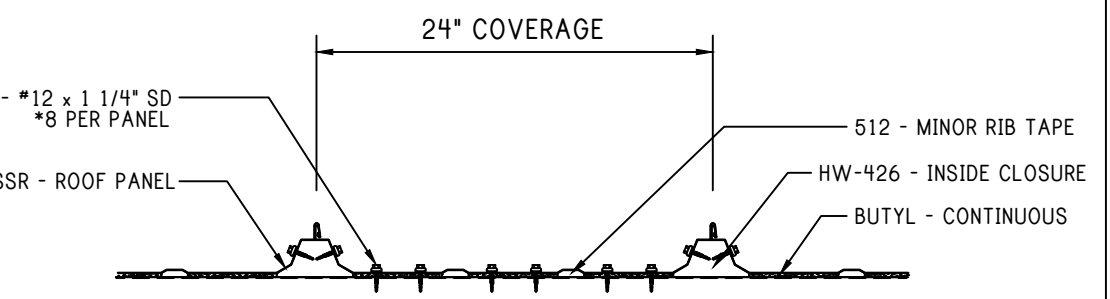
FASTENING @ GIRT & DOOR HEAD SSX-PANEL WALL



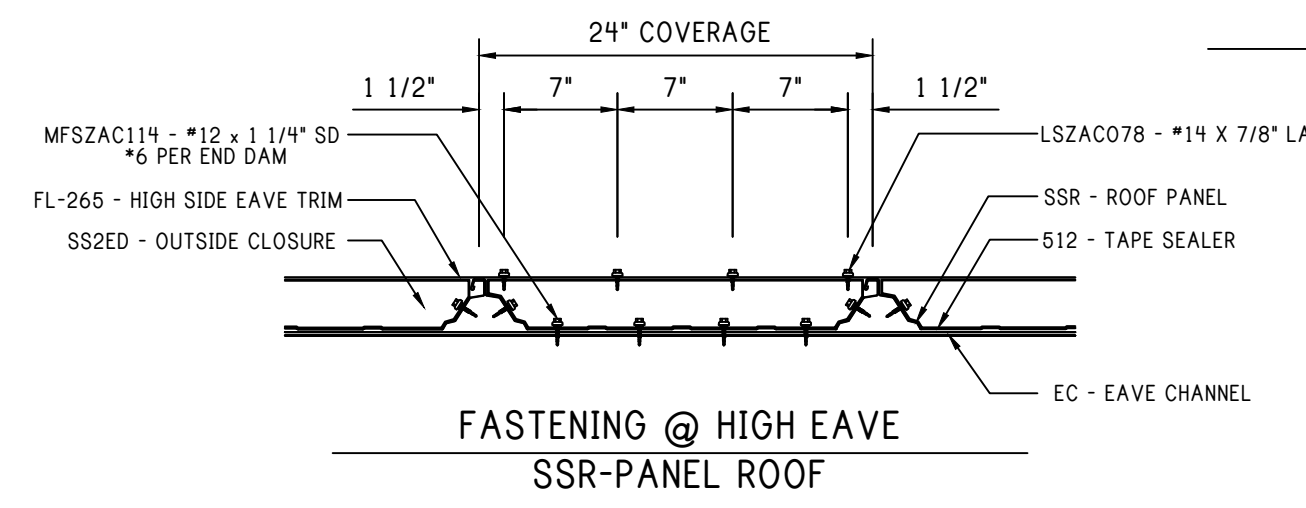
FASTENING @ EAVE & BASE SSX-PANEL WALL



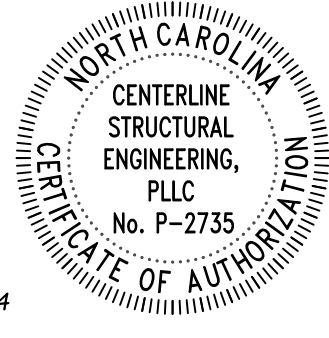
FASTENING @ PURLIN SSR-PANEL ROOF



FASTENING @ EAVE SSR-PANEL ROOF



FASTENING @ HIGH EAVE SSR-PANEL ROOF



REV: DESCRIPTION: BY: DATE:
STATUS: CONSTRUCTION ISSUE

12226-33770-BR1

CLIENT: P.O. BOX 1275
Madison, GA 30650
Phone: (844) 333-7325
Fax: (706) 343-1968

SITE: FUQUAY VARINA
NC 27526

TITLE: 40' x 325' x 16"-0" HS

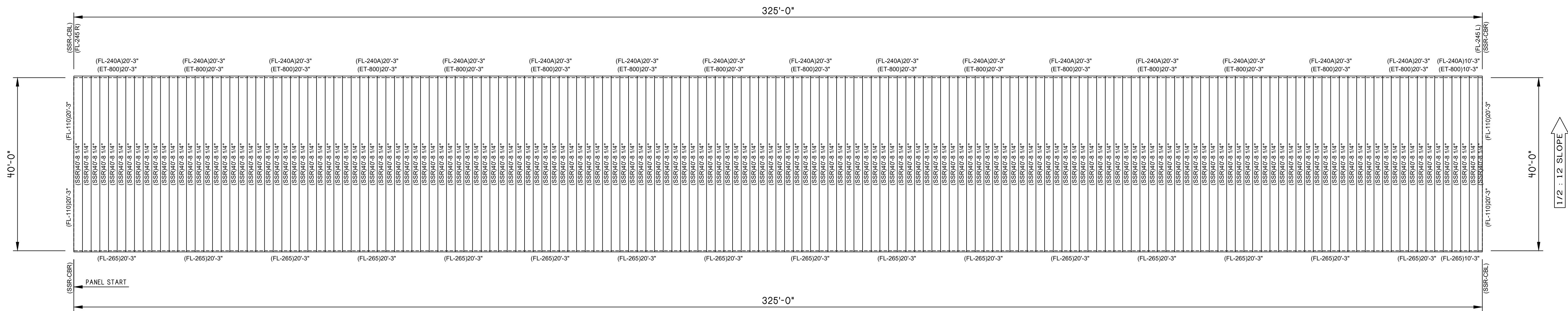
SIZE: DATE: 02/16/24 DRAWN: NMB CHECKED: ALI
SHEET NO: DRAWING NO: REVISION:
7.1 of 8 12226-33770-BR1

Notes:

- REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR SS-II ROOF INFORMATION AND INSTALLATION INSTRUCTIONS.

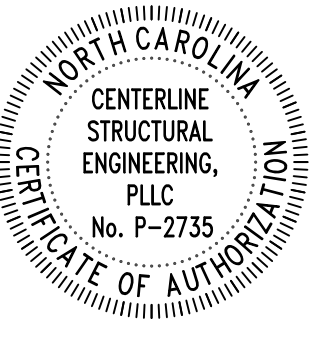
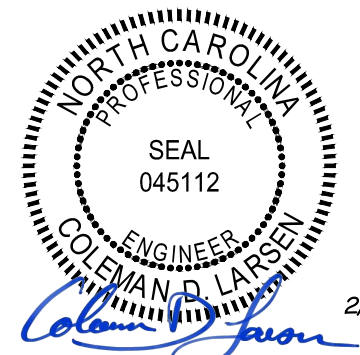
CLOSURES

(246) INSIDE CLOSURES INCLUDED FOR BASE OF EXTERIOR WALL PANELS
 (137) OUTSIDE CLOSURES INCLUDED FOR RAKE AND HIGH EAVE.



ROOF PLAN

NOTE : FIELD CUT AND BEND PANEL AS REQUIRED.

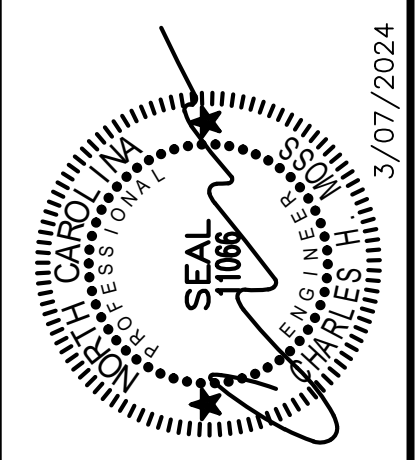


REV:	DESCRIPTION:	BY:	DATE:
STATUS:	CONSTRUCTION ISSUE		

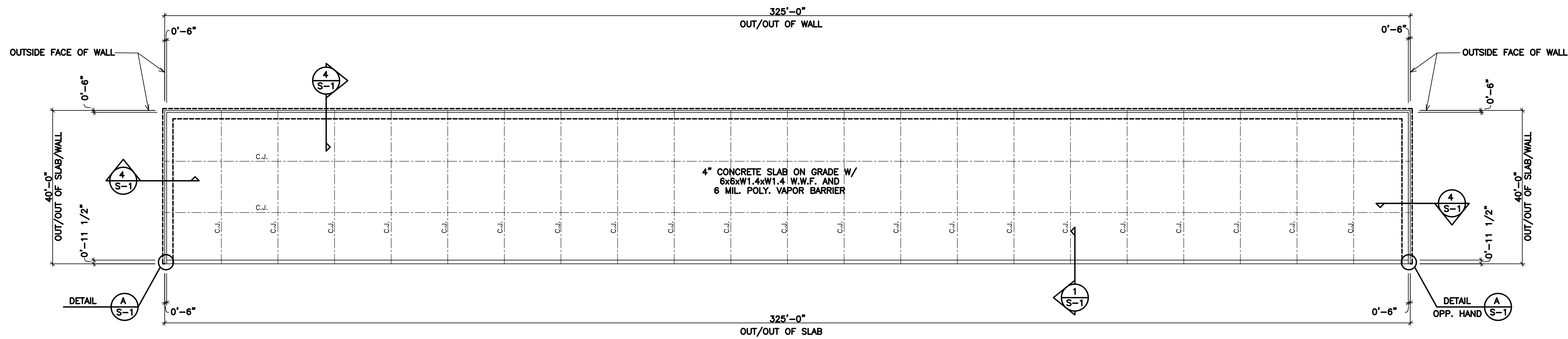
12226-33770-BR1



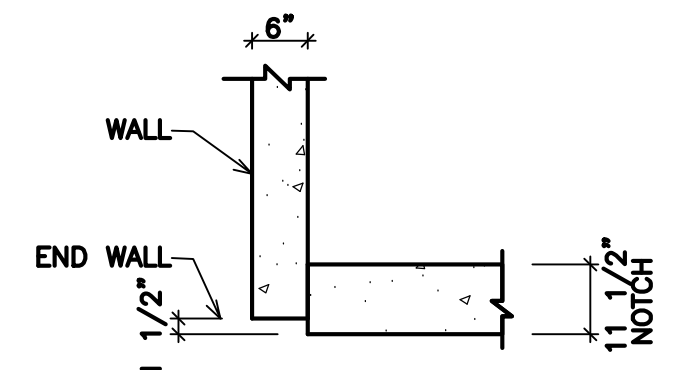
SITE:	FUQUAY VARINA NC 27526		
TITLE:	40' x 325' x 16"-0" HS		
SIZE:	DATE:	DRAWN:	CHECKED:
	02/16/24	NMB	ALI
SHEET NO:	DRAWING NO:	REVISION:	
8 of 8	12226-33770-BR1		



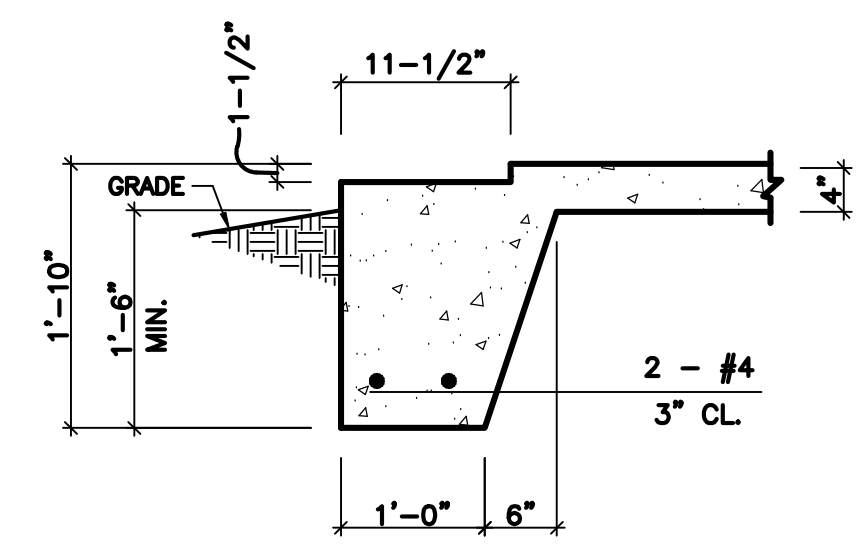
C.H. MOSS, P.E.
 SOLE PROPRIETOR
 P.O. BOX 28
 COVINGTON, GA 30015
 (770)-786-3163



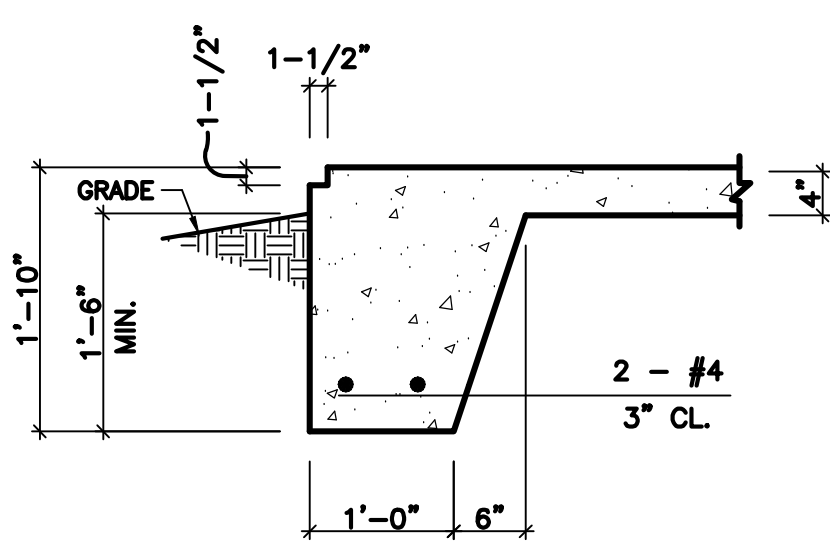
FOUNDATION PLAN-BLDG BR1
 SCALE: 1/16" = 1'-0"



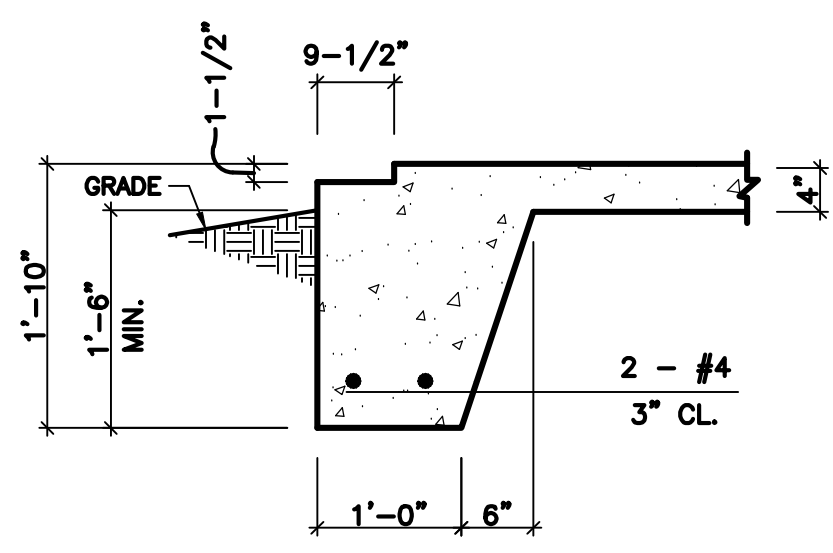
DETAIL A
 SCALE: 3/4" = 1'-0"



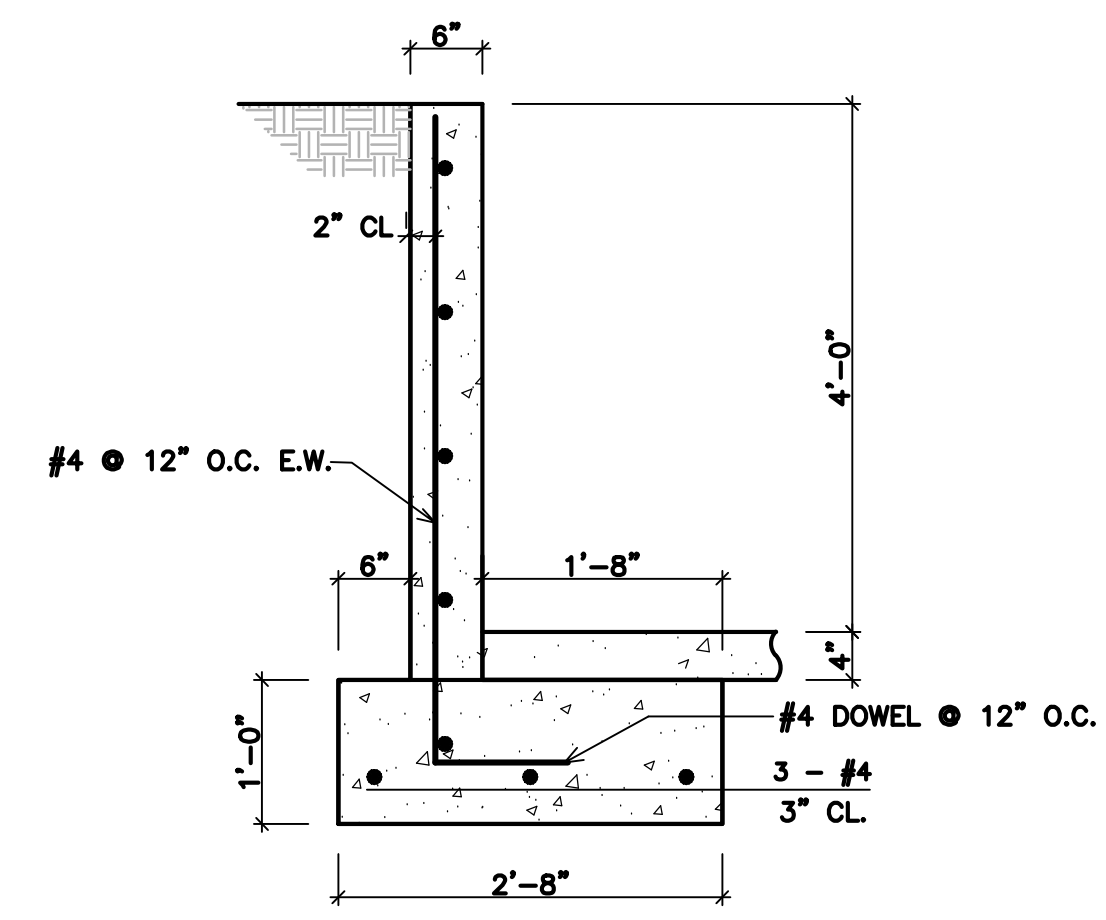
SECTION 1
 SCALE: 3/4" = 1'-0"



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



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



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

GENERAL NOTES

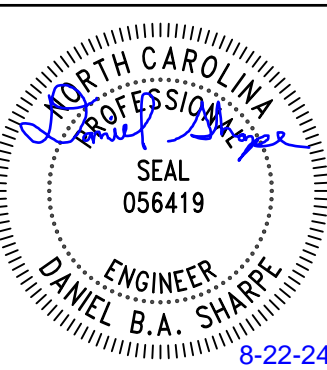
- CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION.
- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 2000 P.S.F.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. WITH A 4" MAXIMUM SLUMP. DETAILS NOT SHOWN SHALL BE ACCORDING TO ACI 318 AND ACI 301 SPECIFICATIONS FOR CONCRETE CONSTRUCTION.
 - REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60 (TIES MAY BE GRADE 40)
 - W.W.F. SHALL BE ASTM A-185
 - MINIMUM LAP: #4 - 28"
 - #5 - 32"
 - MINIMUM COVER: 3" U.N.O.
- C.J. ON PLANS INDICATE CONTROL JOINT 1/8" x 1" DEEP SAWN WITHIN 24 HOURS AFTER PLACING CONCRETE. METAL JOINT MATERIAL MAY BE USED.
- FOUNDATION BASED ON REACTIONS FURNISHED BY PEAK STEEL BUILDINGS, JOB NO. 12226-33770-BR1 DATED 02/16/2024.

NO	DATE	REVISION	BY

FOUNDATION PLAN FOR:
BAUCOM BUSINESS PLAZA
 FUQUAY VARINA, NC

DRAWING NUMBER	
3786	
SHEET	OF:
S-1	4

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DESIGN FOR:
BAUCOM BUSINESS PLAZA - BR1
11132 U.S. 401 N
FUQUAY-VARINA, NC 27526

REV. NO.	DATE	DESCRIPTION
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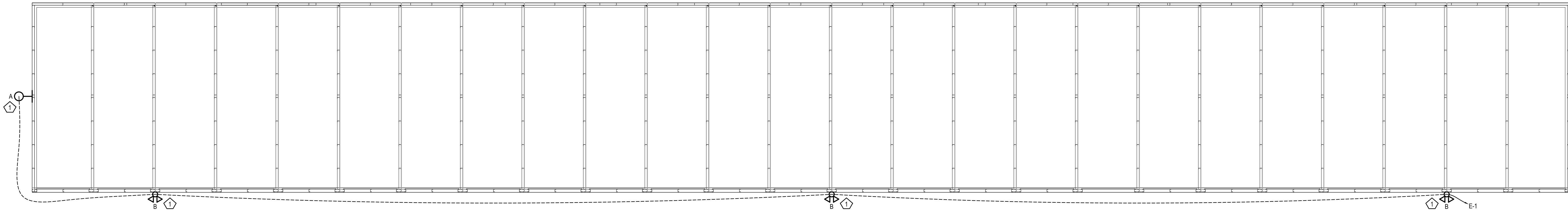
ISS. NO.	DATE	DESCRIPTION
1	8-22-24	FOR PERMITTING
2		
3		
4		
5		
6		
7		

PROJECT NO.: 24-029
DRAWN BY: DBAS
CHECKED BY: DBAS

LIGHTING PLAN

E1.1

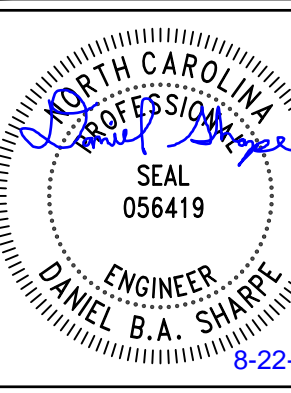
LIGHTING KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	LIGHTING TO BE CONTROLLED BY INTEGRAL MOTION SENSORS TO FIXTURES.



1 LIGHTING PLAN
SCALE - 3/32" = 1'0"

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DESIGN FOR:
BAUCOM BUSINESS PLAZA - BR1
11132 U.S. 401 N
FUQUAY-VARINA, NC 27526

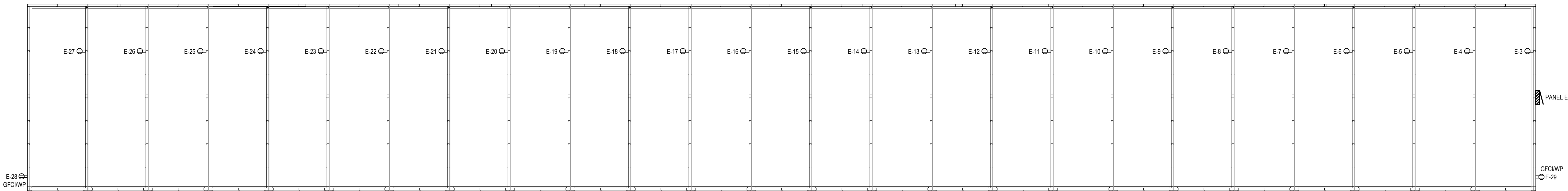
REV. NO.	DATE	DESCRIPTION
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ISS. NO.	DATE	DESCRIPTION
1	8-22-24	FOR PERMITTING
2		
3		
4		
5		
6		
7		

PROJECT NO.: 24-029
DRAWN BY: DBAS
CHECKED BY: DBAS

POWER PLAN

E1.2

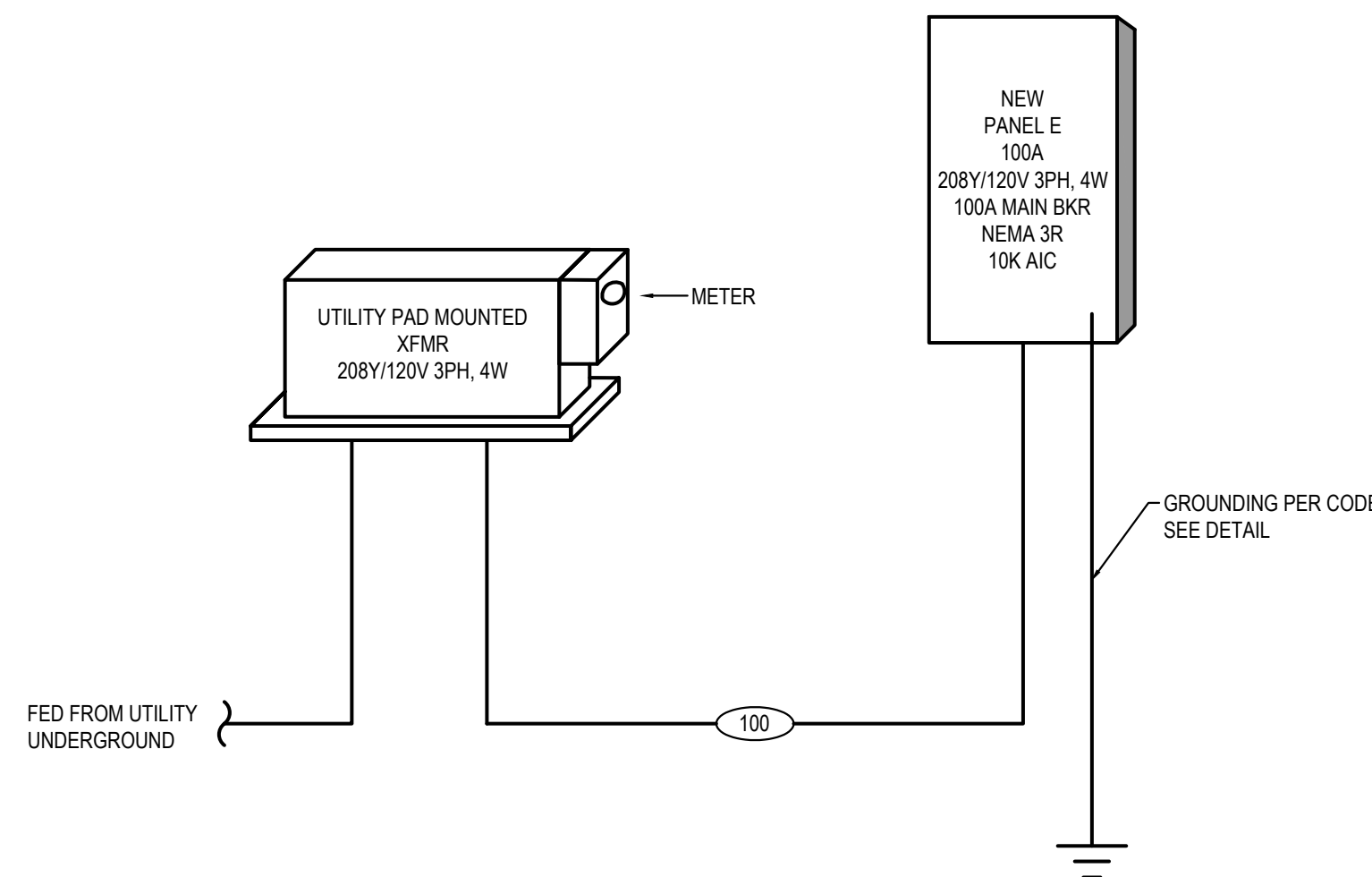


1 POWER PLAN
SCALE - 3/32" = 1'0"

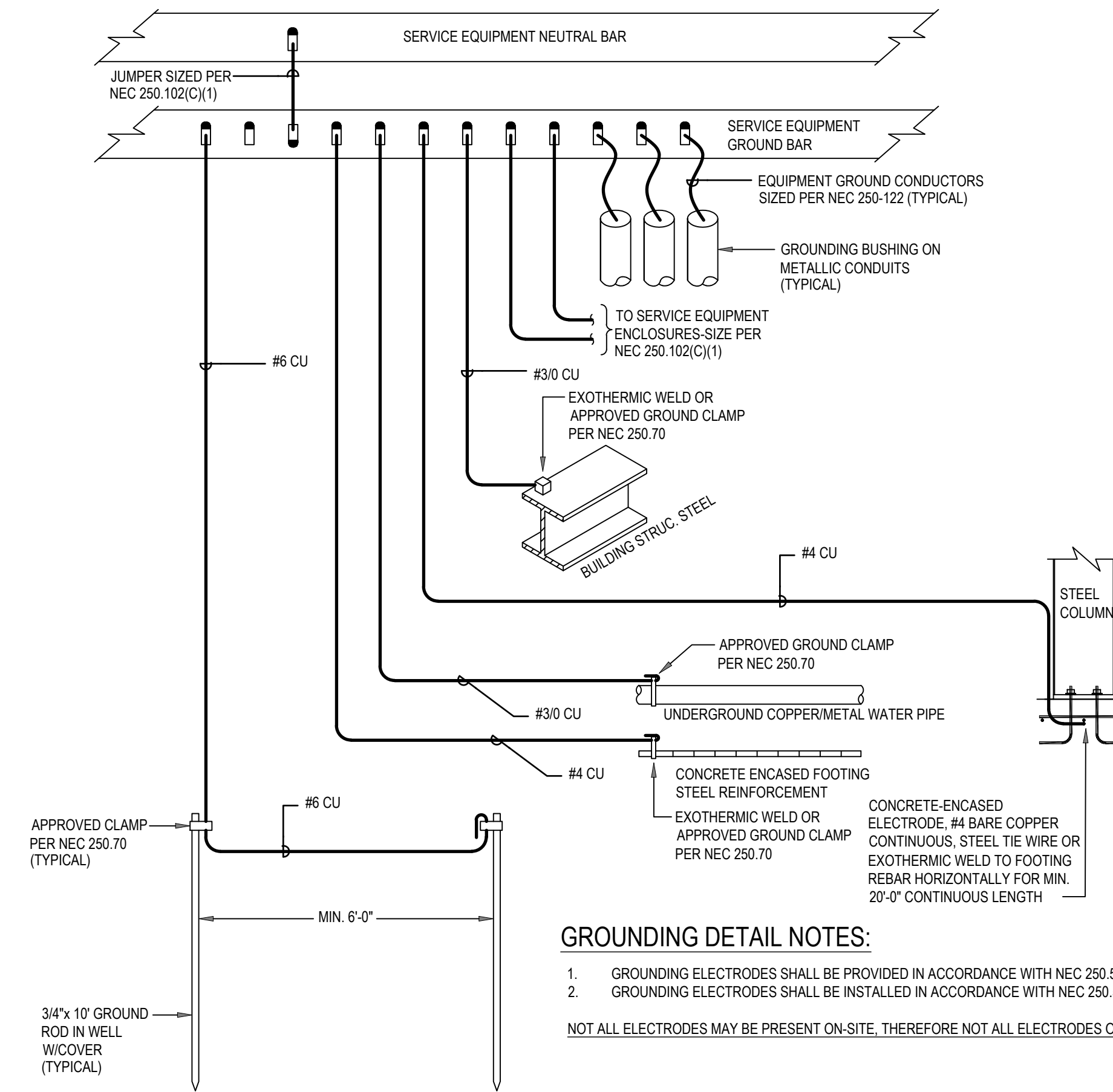
100 AMP MAIN BREAKER 100 AMP BUS RATING 208Y/120 VOLTS		42 POLES 3 PHASE 4 WIRE 60 HZ		PANELBOARD E			10 KA SHORT CIRCUIT RATING		LOCATION: BR1 ENCLOSURE RATING: NEMA 3R MOUNTING: SURFACE	
CIRCUIT NO.	DESCRIPTION	BREAKER AMPS/POLES	LOAD KVA			BREAKER AMPS/POLES	DESCRIPTION	CIRCUIT NO.		
			PHASE A	PHASE B	PHASE C					
1	LIGHTING	20/1	0.13	0.20		20/1	BR2 LIGHTING	2		
3	RV RECEPTACLE	20/1		0.18	0.18	20/1	RV RECEPTACLE	4		
5	RV RECEPTACLE	20/1			0.18	20/1	RV RECEPTACLE	6		
7	RV RECEPTACLE	20/1	0.18	0.18		20/1	RV RECEPTACLE	8		
9	RV RECEPTACLE	20/1		0.18	0.18	20/1	RV RECEPTACLE	10		
11	RV RECEPTACLE	20/1			0.18	20/1	RV RECEPTACLE	12		
13	RV RECEPTACLE	20/1	0.18	0.18		20/1	RV RECEPTACLE	14		
15	RV RECEPTACLE	20/1		0.18	0.18	20/1	RV RECEPTACLE	16		
17	RV RECEPTACLE	20/1			0.18	20/1	RV RECEPTACLE	18		
19	RV RECEPTACLE	20/1	0.18	0.18		20/1	RV RECEPTACLE	20		
21	RV RECEPTACLE	20/1		0.18	0.18	20/1	RV RECEPTACLE	22		
23	RV RECEPTACLE	20/1			0.18	20/1	RV RECEPTACLE	24		
25	RV RECEPTACLE	20/1	0.18	0.18		20/1	RV RECEPTACLE	26		
27	RV RECEPTACLE	20/1		0.18	0.18	20/1	RV RECEPTACLE	28		
29	EXTERIOR RECEPTACLE	20/1			0.18	20/1	BR2 RECEPTACLES	30		
31	BR2 RECEPTACLES	20/1	0.72	0.72		20/1	BR2 RECEPTACLES	32		
33	BR2 RECEPTACLES	20/1		0.72	0.72	20/1	BR2 RECEPTACLES	34		
35	BR2 RECEPTACLES	20/1			0.72	20/1	BR2 RECEPTACLES	36		
37	BR2 RECEPTACLES	20/1	0.72	0.72		20/1	BR2 RECEPTACLES	38		
39	BR2 RECEPTACLES	20/1		0.72		20/1	BR2 RECEPTACLES	40		
41	SPACE						SPACE	42		
TOTAL PHASE KVA PER PHASE			4.65	3.96	3.78	DEMAND KVA: 25.94				
TOTAL CONNECTED KVA			12.39			DEMAND AMPS: 72				
AMPS PER PHASE			39	33	32					

NOTES:
1
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3
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SUMMARY OF LOADS			
DESCRIPTION	CONNECTED (kVA)	DEMAND FACTOR	DEMAND (kVA)
LIGHTING	0.13	1.00	15.0
RECEPTACLES (100 10 kVA)	10.00	1.00	10.00
(REMAINING)	1.88	0.50	0.94
(TOTAL)	11.88	1.00	10.94
TOTAL KVA	12.0		25.9
TOTAL AMPS	33		72



1 ONE-LINE DIAGRAM
NOT TO SCALE



GROUNDING DETAIL NOTES:

- GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC 250.52(A).
- GROUNDING ELECTRODES SHALL BE INSTALLED IN ACCORDANCE WITH NEC 250.53

NOT ALL ELECTRODES MAY BE PRESENT ON-SITE, THEREFORE NOT ALL ELECTRODES ON THIS DETAIL MAY APPLY. DETAIL IS DIAGRAMMATIC ONLY.

2 SERVICE GROUNDING DETAIL
NOT TO SCALE

STANDARD OVERCURRENT PROTECTION SIZE	FEEDER WIRE - # SETS (CONDUCTOR SIZE, EQUIP. GND., CONDUIT SIZE) CONDUCTOR TYPE: THHN - DRY, THWN - WET			
	COPPER WIRE	GEC	ALUMINUM WIRE	GEC
30	1 [4 #10, #10G, 3/4"C]		1 [4 #8, #8G, 3/4"C]	
35	1 [4 #8, #10G, 3/4"C]		1 [4 #6, #8G, 1"C]	
40	1 [4 #8, #10G, 3/4"C]		1 [4 #6, #8G, 1"C]	
45	1 [4 #6, #10G, 1"C]		1 [4 #4, #8G, 1-1/4"C]	
50	1 [4 #6, #10G, 1"C]		1 [4 #4, #8G, 1-1/4"C]	
60	1 [4 #4, #10G, 1-1/4"C]		1 [4 #3, #8G, 1-1/4"C]	
70	1 [4 #4, #8G, 1-1/4"C]		1 [4 #2, #6G, 1-1/4"C]	
80	1 [4 #3, #8G, 1-1/4"C]		1 [4 #1, #6G, 1-1/2"C]	
90	1 [4 #2, #8G, 1-1/4"C]		1 [4 #1/0, #6G, 2"C]	
100	1 [4 #1, #6G, 1-1/2"C]	#8	1 [4 #1/0, #6G, 2"C]	#6
110	1 [4 #1, #6G, 1-1/2"C]	#8	1 [4 #1/0, #4G, 2"C]	#6
125	1 [4 #1, #6G, 1-1/2"C]	#6	1 [4 #2/0, #4G, 2"C]	#4
150	1 [4 #1/0, #6G, 2"C]	#6	1 [4 #3/0, #4G, 2"C]	#4
175	1 [4 #2/0, #6G, 2"C]	#4	1 [4 #4/0, #4G, 2-1/2"C]	#2
200	1 [4 #3/0, #6G, 2"C]	#4	1 [4 #250KCMIL, #4G, 2-1/2"C]	#2
225	1 [4 #4/0, #4G, 2-1/2"C]	#2	1 [4 #300KCMIL, #2G, 3"C]	#1/0
250	1 [4 #250KCMIL, #4G, 2-1/2"C]	#2	1 [4 #350KCMIL, #2G, 3"C]	#1/0
300	1 [4 #300KCMIL, #4G, 3"C]	#2	1 [4 #500KCMIL, #2G, 3"C]	#1/0
350	2 [4 #2/0, #3G, 2"C]	#2	2 [4 #4/0, #1G, 2-1/2"C]	#1/0
400	2 [4 #3/0, #3G, 2"C]	#2	2 [4 #250KCMIL, #1G, 2-1/2"C]	#1/0
450	2 [4 #4/0, #2G, 2-1/2"C]	#1/0	2 [4 #300KCMIL, #1/0G, 3"C]	#3/0
500	2 [4 #250KCMIL, #2G, 2-1/2"C]	#1/0	2 [4 #350KCMIL, #1/0G, 3"C]	#3/0
600	2 [4 #350KCMIL, #1G, 3"C]	#2/0	2 [4 #500KCMIL, #2/0G, 3"C]	#4/0
700	2 [4 #500KCMIL, #1/0G, 3"C]	#2/0	3 [4 #350KCMIL, #3/0G, 3"C]	#4/0
800	3 [4 #300KCMIL, #1/0G, 3"C]	#3/0	3 [4 #400KCMIL, #3/0G, 3"C]	#4/0
1000	3 [4 #400KCMIL, #2/0G, 3"C]	#3/0	4 [4 #350KCMIL, #4/0G, 3"C]	#4/0
1200	4 [4 #350KCMIL, #3/0G, 3"C]	#3/0	4 [4 #500KCMIL, #250KCMIL G, 3"C]	#250 KCMIL
1600	5 [4 #400KCMIL, #4/0G, 3"C]	#3/0	6 [4 #400KCMIL, #350KCMIL G, 3"C]	#250 KCMIL
2000	6 [4 #400KCMIL, #250KCMIL G, 3"C]	#3/0	7 [4 #500KCMIL, #400KCMIL G, 3"C]	#250 KCMIL
2500	7 [4 #500KCMIL, #350KCMIL G, 3"C]	#3/0	9 [4 #500KCMIL, #600KCMIL G, 3"C]	#250 KCMIL
3000	8 [4 #500KCMIL, #400KCMIL G, 3"C]	#3/0	10 [4 #500KCMIL, #600KCMIL G, 3"C]	#250 KCMIL
4000	11 [4 #500KCMIL, #500KCMIL G, 3"C]	#3/0	13 [4 #500KCMIL, #750KCMIL G, 3"C]	#250 KCMIL

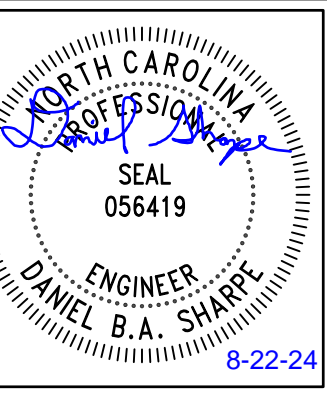
FEEDER SCHEDULE NOTES:

- ALL FEEDER SIZES MAY NOT BE LISTED IN ONE-LINE DIAGRAM
- ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED. REFER TO APPLICABLE TABLE IN ANNEX C OF NEC.
- IF CONDUIT OTHER THAN EMT IS REQUIRED, BASE BID ON NEXT TRADE SIZE ABOVE THAT INDICATED.
- 'GEC' DENOTES GROUNDING ELECTRODE CONDUCTOR PER NEC TABLE 250.66.

* EC SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION AND UTILITY COMPANY THAT ALUMINUM CONDUCTORS ARE ACCEPTABLE FOR USE AS UTILITY TRANSFORMER SECONDARIES AND FEEDER CIRCUITS.

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DESIGN FOR:
BAUCOM BUSINESS PLAZA - BR1
11132 U.S. 401 N
FUQUAY-VARINA, NC 27526

REV. NO.	DATE	DESCRIPTION
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ISS. NO.	DATE	DESCRIPTION
1	8-22-24	FOR PERMITTING
2		
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6		
7		

PROJECT NO.: 24-029
DRAWN BY: OMS
CHECKED BY: OMS

PANEL SCHEDULE AND ONE-LINE DIAGRAM

E2.1