2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

(Except 1 & 2-Family Dwellings & Townhouses)

Name of Project: CIRCLE K FUEL

Address: EAST JACKSON BLVD. & NC 55, ERWIN, NC Zip Code: _____

Owner/Authorized Agent: _____

Phone # _____ E-Mail: _____

Owned By: ☐ City/County MONROE ■ Private ☐ State

Code Enforcement Jurisdiction: ☐ City MONROE ■ County ☐ State

CONTACT:

	FIRM	NAME	LICENSE#	PHONE#	EMAIL
Arch					
Civil					
Elect					
Fire Alarm					
Plumb					
Mech					
Sprinkler Standpipe					
Structural	ARP ENGINEERING	L. DEAN ARP	18427	704-225-0079	DEAN@ARPENG.COM
Retaining Walls>5'H					
Other					

■ 2018 NC BUILDING CODE (Select One:)
- ■ New Building
- ☐ Addition
- ☐ First Time Interior Completion
- ☐ Shell Core
- ☐ Phased Construction

☐ 2018 NORTH CAROLINA EXISTING BUILDING CODE: (Select One:)
- ☐ N/A
- ☐ Prescriptive
- ☐ Repair
- ☐ Chapter 14
- ☐ Alteration Level I
- ☐ Alteration Level II
- ☐ Alteration Level III
- ☐ Historic Property
- ☐ Change of Use

☐ CONSTRUCTED: (date) _____ ☐ CURRENT OCCUPANCY (Ch. 3) _____

☐ RENOVATED: (date) _____ ☐ PROPOSED OCCUPANCY (Ch. 3) _____

OCCUPANCY CATEGORY (Table 1604.5):

CURRENT: ☐ N/A ☐ I ☐ II ☐ III ☐ IV

PROPOSED: ☐ N/A ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:

Construction Type: ☐ I–A ☐ I–B ■ II–B ☐ II–A ☐ III–A ☐ III–B ☐ IV ☐ V–A ☐ V–B

Sprinklers: ☐ N/A ☐ YES ■ NO ☐ PARTIAL ☐ N/A ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☐ N/A ■ NO ☐ CLASS I–WET ☐ CLASS I–DRY ☐ CLASS II–WET ☐ CLASS II–DRY ☐ CLASS III–WET ☐ CLASS III–DRY

Primary Fire District: ☐ YES ■ NO Floor Hazard Area: ☐ YES ■ NO

Special Inspections Required: ☐ YES (Contact the Local Inspection Jurisdiction for Procedures & Requirements) ■ NO

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ. FT.)	NEW(SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		3928	3928
Basement			
TOTAL		3928	3928

CAD FILE NO./PLOT SCALE
1/8"=1'-0"
67018

ALLOWABLE AREA

Primary Occupancy Classification:

Assembly: ☐ A–1 ☐ A–2 ☐ A–3 ☐ A–4 ☐ A–5
Business: ☐ B Educational: ☐ E Factory: ☐ F–1 Moderate ☐ F–2 Low
Hazardous: ☐ H–1 Detonate ☐ H–2 Deflagrate ☐ H–3 Combust ☐ H–4 Health ☐ H–5 HPM
Institutional: ☐ I–1 Condition 1 ☐ I–1 Condition 2 ☐ I–2 Condition 1 ☐ I–2 Condition 2 ☐ I–3 Condition 1 ☐ I–3 Condition 2 ☐ I–3 Condition 3 ☐ I–3 Condition 4 ☐ I–3 Condition 5
Mercantile: ■ M Residential: ☐ R–1 ☐ R–2 ☐ R–3 ☐ R–4
Storage: ☐ S–1 ☐ S–1 High Piled ☐ S–2 ☐ S–2 High Piled
Parking Garage: ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous: ☐ U

Accessory Occupancy Classification:

Assembly: ☐ A–1 ☐ A–2 ☐ A–3 ☐ A–4 ☐ A–5
Business: ☐ B Educational: ☐ E Factory: ☐ F–1 Moderate ☐ F–2 Low
Hazardous: ☐ H–1 Detonate ☐ H–2 Deflagrate ☐ H–3 Combust ☐ H–4 Health ☐ H–5 HPM
Institutional: ☐ I–1 Condition 1 ☐ I–1 Condition 2 ☐ I–2 Condition 1 ☐ I–2 Condition 2 ☐ I–3 Condition 1 ☐ I–3 Condition 2 ☐ I–3 Condition 3 ☐ I–3 Condition 4 ☐ I–3 Condition 5
Mercantile: ☐ M Residential: ☐ R–1 ☐ R–2 ☐ R–3 ☐ R–4
Storage: ☐ S–1 ☐ S–1 High Piled ☐ S–2 ☐ S–2 High Piled
Parking Garage: ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous: ☐ U

Incidental Uses (Table 509): _____

Special Uses (Chapter 4- List Code Sections): _____

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

Mixed Occupancy: ☐ YES ■ NO Separation: ☐ 1–Hr ☐ 2–Hr ☐ 3–Hr ☐ 4–Hr Exception: _____

EXCEPTION: ☐ YES ■ NO
- ☐ Non-Separated Use (508.3)
- ☐ Separated Use (508.4) - See below for area calculations. For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not Exceed 1.

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

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \quad \leq 1.00$$

STORY NO	DESCRIPTION AND USE	(A) bldg area per story (actual)	(B) table 506.2[2] AREA	(C) area for frontage increase [1,4]	(D) allowable area per story or unlimited[2,3]
FIRST	METAL CANOPY (MERCANTILE)	3928	12,500	N/A	12,500

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

[2] Unlimited area applicable under conditions of Section 507.

[3] Maximum Building Area=Total number of stories in the building x D (max of 3 stories) (506.2).

[4] The maximum area of open parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with 412.3.1.

[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	55'	15'-6"	T504.3
Building Height in Stories	TWO	ONE	T504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FT)	RATING** REQ'D	RATING** PROVIDED w/ — HR REDUCTION	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses							
Bearing Walls		N/A					
Exterior Walls		N/A					
North	>30	0					
East	>30	0					
West	>30	0					
South	>30	0					
Interior walls & partitions		N/A					
Non-Bearing Walls and Partitions		0					
Exterior Walls		N/A					
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior walls & partitions		N/A					
Floor Construction Including Supporting Beams & Joists		N/A					
Floor Ceiling Assembly		N/A					
Columns Supporting Floor		N/A					
Shaft enclosures - Exit		N/A					
Shaft enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Tenant Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction.

PERCENTAGE OF WALL OPENING CALCULATIONS

	FIRE SEPARATION DISTANCE (FS) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
FRONT	>30'	Unprotected, Nonsprinklered	No Limit	100%
LEFT	>30'	Unprotected, Nonsprinklered	No Limit	100%
RIGHT	>30'	Unprotected, Nonsprinklered	No Limit	100%
REAR	>30'	Unprotected, Nonsprinklered	No Limit	100%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ Yes ■ No Smoke Detection Systems: ☐ Yes ■ No ☐ Partial _____
Exit Signs: ☐ Yes ■ No Carbon Monoxide Detection: ☐ Yes ■ No
Fire Alarm: ☐ Yes ■ No

LIFE SAFETY PLAN REQUIREMENT

Life Safety Plan Sheet # N/A
- ☐ Fire and/or Smoke Rated Wall Locations (Chapter 7)
- ☐ Assumed and Real Property Line Locations (if not on the site plan)
- ☐ Exterior Wall Openings w/ 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
- ☐ Exist Access Travel Distance (1017)
- ☐ Common Path of Travel Distances (1006.2.1 & 1006.3.2(1))
- ☐ Dead End Lengths (1020.4)
- ☐ Clear Exit Widths for Each Exit Door.
- ☐ Max Calculated Occupant load capacity each exit door can accommodate based on egress width (1005.3)
- ☐ Actual Occupant Load for Each Exit Door
- ☐ A Separate Schematic Plan Indicating Where Fire Rated Floor/Ceiling and/or Roof Structure is Provided for Purposes of Occupancy Separation.
- ☐ Location of Doors w/ Panic Hardware (1010.1.10)
- ☐ Loction of Doors w/ Delayed Egress Locks & the Amount of Delay (1010.1.9.7)
- ☐ Location of Doors w/ Electromagnetic Egress Locks (1010.1.9.9)
- ☐ Location of Doors Equipped w/ Hold-Open Devices.
- ☐ Location of Emergency Escape Windows (1030)
- ☐ The Sq Footage of Each Fire Area (202)
- ☐ The Sq Footage of Each Smoke Compartment for Occupancy Classification (407.5)
- ☐ Note ANY Code Exceptions or Table Notes That May Have Been Utilized Regarding the Items Above.

ACCESSIBLE DWELLING UNITS (SECTION 1107)

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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR w/ 5' ACCESS ISLE	VAN SPACES w/ 132" ACCESS ISLE	8' ACCESS ISLE	
PROPOSED PARKING	SEE CIVIL DRAWINGS FOR FULL CALCULATIONS					

PLUMBING FIXTURE REQUIREMENTS (SECTION 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/TUBS			SERVICE SINK	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTING													
	NEW													
	REQUIRED													

NOT APPLICABLE – TOILETS AT ADJACENT CONVENIENCE STORE

SPECIAL APPROVALS

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

_____

_____

ENERGY SUMMARY

NOT APPLICABLE – NOT CONDITIONED

Energy Requirements:

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 Code Complies w/ Code: ☐ YES ☐ NO (Remainder of this Section is N/A)

Exempt Building: ■ YES ☐ NO

Climate Zone: ☐ N/A ☐ 3A ☐ 4A ☐ 5A

Method of Compliance:
- ☐ Energy Code Performance
- ☐ Energy Code Prescriptive
- ☐ Ashrae 90.1 Performance
- ☐ Ashrae 90.1 Prescriptive
- ☐ Other (Performance)

(If 'Other' Specify Source here) _____

Roof/Ceiling Assembly (Prescriptive Method Only)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of Insulation: _____
Skylights in Each Assembly: _____
U-Value of Skylight: _____
Total SF of Skylights/ Each Assembly: _____

Exterior Walls: (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Openings (Windows /Doors w/ Glazing)
U-Value of Assembly: _____
SHGC coefficient: _____
projection factor: _____
Door R-Values: _____

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 heated: _____

2018 APPENDIX B
Building Code Summary for All Commercial Projects

STRUCTURAL DESIGN

(PROVIDE ON ALL STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Wind (Iw) 1.0
Snow (Is) ☐ 0.8 ■ 1.0 ☐ 1.1 ☐ 1.2
Seismic (Ie) ■ 1.0 ☐ 1.25 ☐ 1.5

Live Loads: Roof 20 psf; Mezzanine – psf; Floor – psf

Ground Snow Load: 10 psf

Wind Load: Basic Wind Speed 119 mph (ASCE-7-16)
Exposure Category ☐ N/A ☐ B ■ C ☐ D

SEISMIC DESIGN CATEGORY: ☐ N/A ☐ A ■ B ☐ C ☐ D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☐ N/A ☐ I ■ II ☐ III ☐ IV

Spectral Response Acceleration S_S 0.132 g S_1 0.065 g

Site Classification (ASCE-7-10) ☐ N/A ☐ A ☐ B ☐ C ■ D ☐ E ☐ F

Data Source: ☐ N/A ☐ Field Test ■ Presumptive ☐ Historical Data

Basic structural system (check one)
- ☐ Bearing Wall
- ☐ Building Frame
- ■ Moment Frame
- ☐ Dual w/Special Moment Frame
- ☐ Dual w/Intermediate R/C or Special Steel
- ☐ Inverted Pendulum

Analysis Procedure: (check one)
☐ N/A ☐ Simplified ■ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ N/A ■ Yes ☐ No

LATERAL DESIGN CONTROL: ☐ N/A ☐ Earthquake ■ Wind

SOIL BEARING CAPACITIES:
- ☐ N/A
- ■ Field Test (provide copy of test report)
- ☐ Presumptive Bearing capacity 2500 psf

Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED? ☐ YES ■ NO

ARP ENGINEERING
CONSULTING ENGINEERS
202 EAST FRANKLIN STREET, SUITE A
PO BOX 587 · MONROE · NC 28111
(704) 225-0079
NC COA C2424

McGEE CORPORATION
12701 East Independence Blvd. P.O. Box 1375
Matthews, NC 28106-1375
Phone: (704) 882-1500
Watts: (800) 526-5589

PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
	67018	P067018

CIRCLE K
EAST JACKSON BLVD. & NC 55
ERWIN, NC 28339 (HARNETT)

SCALE: 1/8"=1'-0"	IN ACCORDANCE WITH REV. LETTER: _____	DRAWN BY: ASB
DATE: 5/7/2026		CHK'D BY:

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METAL CANOPY 24'-0" x 163'-8"

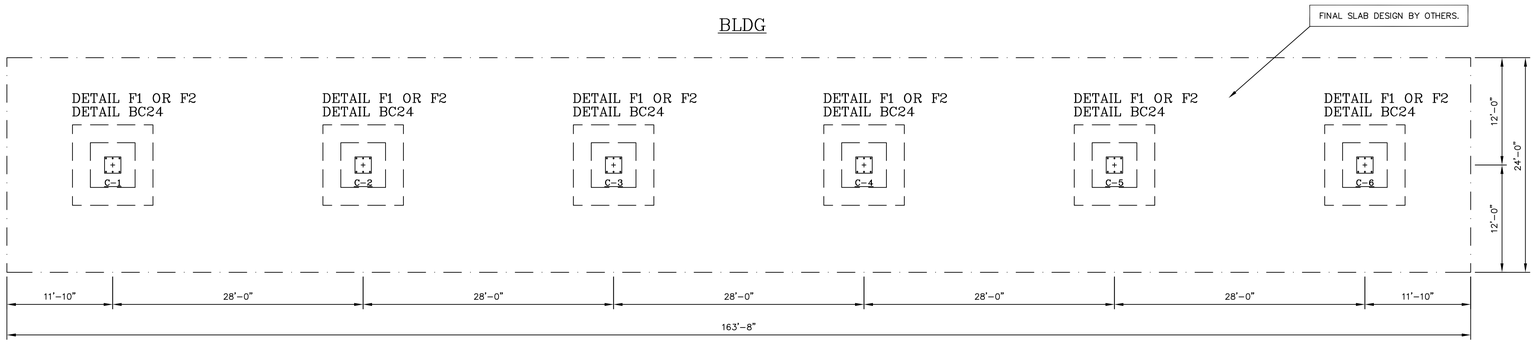
APPENDIX B

SHEET NO. 1 OF 1

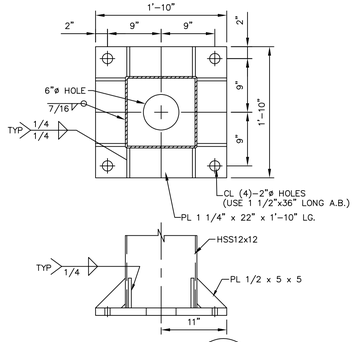
NORTH CAROLINA PROFESSIONAL SEAL 18427 ENGINEER L. DEAN ARP

5/7/2026

Digitally signed by Larry D Arp Jr.
DN: cn=US, o=Unaffiliated, dnQualifier=A01410C000001992449453300062083, cn=Larry D Arp Jr.
Date: 2026.05.08 10:31:42 -04'00'

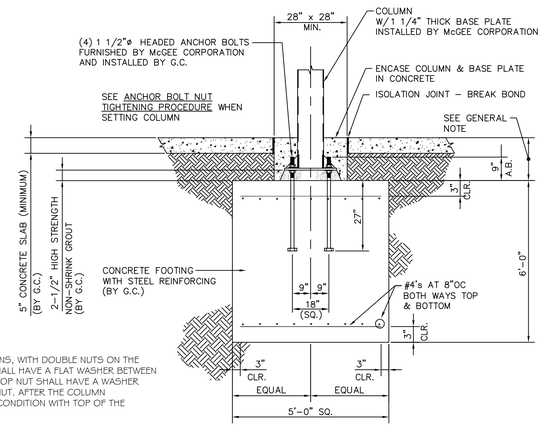


FOUNDATION PLAN



DETAIL BC17

McGEE #PL-BC222229-18

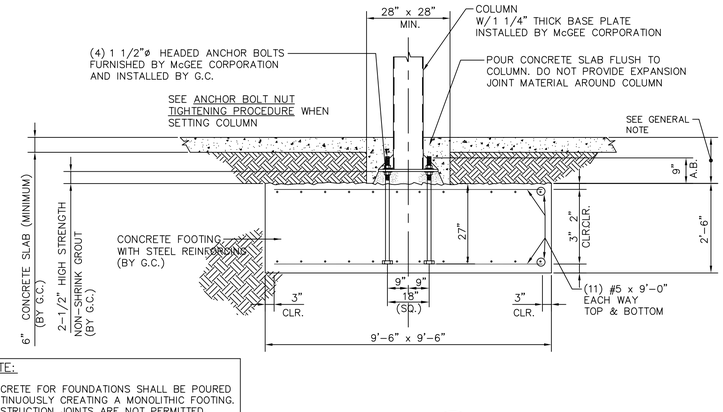


DETAIL F1

REV. 01/22/03

NOTE:

CONCRETE FOR FOUNDATIONS SHALL BE POURED CONTINUOUSLY CREATING A MONOLITHIC FOOTING. CONSTRUCTION JOINTS ARE NOT PERMITTED.



DETAIL F2

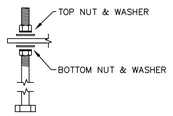
REV. 09/10/02

NOTE:

CONCRETE FOR FOUNDATIONS SHALL BE POURED CONTINUOUSLY CREATING A MONOLITHIC FOOTING. CONSTRUCTION JOINTS ARE NOT PERMITTED.

ANCHOR BOLT NUT TIGHTENING PROCEDURE:

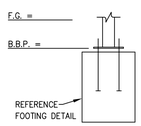
SET AND PLUMB THE COLUMN, PER AISC ERECTION PROVISIONS, WITH DOUBLE NUTS ON THE REQUIRED NUMBER OF ANCHOR BOLTS. THE BOTTOM NUT SHALL HAVE A FLAT WASHER BETWEEN THE BOTTOM OF BASEPLATE AND THE TOP OF THE NUT. THE TOP NUT SHALL HAVE A WASHER BETWEEN THE TOP OF BASEPLATE AND THE BOTTOM OF THE NUT. AFTER THE COLUMN IS SET AND PLUMB, TIGHTEN THE TOP NUT TO A SNUG TIGHT CONDITION WITH TOP OF THE BASEPLATE (FULL EFFORT OF A MAN ON A WRENCH).



LEGEND

F.G. = FINISHED GRADE (DRIVE SLAB AT COL.)
F.F. = FINISHED FLOOR
B.B.P. = BOTTOM OF BASE PLATE
T.O.I. = TOP OF ISLAND
T.O.F. = TOP OF FOOTING

HIGH POINT UNDER CANOPY _____
TOP OF BUILDING _____



COLUMN NO.	FINISH GRADE	BOTTOM OF BASEPLATE
C-1	F.G. =	B.B.P. =
C-2	F.G. =	B.B.P. =
C-3	F.G. =	B.B.P. =
C-4	F.G. =	B.B.P. =
C-5	F.G. =	B.B.P. =
C-6	F.G. =	B.B.P. =
BENCHMARK = 0"		

SITE CONDITIONS / REQUIREMENTS

1.) PROVIDE A DRIVE ACCESSIBLE AREA TO WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA IN ORDER TO UNLOAD MATERIALS AND PERFORM WORK.

2.) FILL ALL OPEN TANK HOLES AND TRENCHES WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA FROM THE TIME THAT THE STRUCTURE ARRIVES AND UNTIL ERECTION IS COMPLETE.

3.) THE JOB SITE MUST BE GRADED LEVEL WITH NO SWELLS, DITCHES, OR TOPOGRAPHICAL IRREGULARITIES WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA. ANY CONCRETE POURED PRIOR TO McGEE'S ARRIVAL MUST HAVE HAD AMPLE TIME TO CURE AND BE ABLE TO SUPPORT THE WEIGHT OF McGEE'S TRAILERS AND CRANES.

4.) THE JOB SITE MUST BE DRY ENOUGH FOR McGEE'S VEHICLES AND PERSONNEL TO PERFORM WORK. IF NECESSARY THE GENERAL CONTRACTOR SHOULD LAY GRAVEL IN EXCESSIVELY MUDDY AREAS TO ENSURE ADEQUATE WORK CONDITIONS.

5.) POURED CONCRETE PAVING UNDER THE CANOPY TO BE EXCLUSIVELY FOR WORK SPACE AND STORAGE OF MATERIALS.

6.) REMOVE ALL OVERHEAD OBSTRUCTIONS.

7.) FORM, SET, AND POUR FOUNDATIONS PER McGEE'S SITE SPECIFIC APPROVED FOUNDATION PLAN. ALL FORMS SHALL BE REMOVED PRIOR TO McGEE'S ARRIVAL. ALL THREADS SHALL BE FREE FROM DEBRIS AND DUST AND SHALL BE ACCESSIBLE.

8.) INSTALL ALL ANCHOR BOLTS W/ NUTS. SET AT PROPER ELEVATIONS WITH NO MORE THAN 1/4" TOLERANCE.

9.) PROVIDE TEMPORARY POWER SOURCE (110 VOLTS) WITHIN 100 FEET OF THE STRUCTURE FOR INSTALLERS USE.

10.) OBTAIN ALL REQUIRED PERMITS FROM LOCAL AUTHORITIES AND ARRANGE ALL LOCAL INSPECTIONS.

11.) VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. ANY DEVIATIONS FROM THESE DRAWINGS DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR MODIFICATIONS.

PLEASE REVIEW ALL DRAWINGS, SIGN AND RETURN FOR FABRICATION OF CANOPY

CANOPY SIZE	☐ APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES
COLUMN SPACING	☐ APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES
CLEARANCE	☐ APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES
SIGNAGE	☐ NUMBER APPROVED AS SUBMITTED ☐ LAYOUT APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES
DECALS	☐ APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES
LIGHTS	☐ NUMBER APPROVED AS SUBMITTED ☐ LAYOUT APPROVED AS SUBMITTED ☐ APPROVED WITH NOTED CHANGES

ELEVATION FORMS FORWARDED TO GENERAL CONTRACTOR ☐

APPROVED BY: _____

DATE: _____

NOTE: SIGNED SALES ORDER, APPROVAL DRAWINGS, AND A COMPLETED ELEVATION FORM MUST BE RECEIVED AT LEAST 3 WEEKS PRIOR TO DELIVERY OF ANY CANOPY MATERIALS.

REQUESTED DELIVERY DATE: _____

GENERAL NOTES

1) CANOPY FOUNDATION INSTALLATION CONTRACTOR SHALL DETERMINE WHICH FINISHED GRADE ELEVATION AT EACH CANOPY COLUMN IS THE LOWEST AND ESTABLISH ALL FOUNDATION LOCATIONS IN RELATION TO THAT ELEVATION. CONTRACTOR MUST VERIFY FUEL CONTAINMENT BOX SIZE AND LOCATION TO ENSURE FOUNDATION DOES NOT INTERFERE WITH BOX INSTALLATION. TOP OF FOUNDATION DEPTH MAY BE GREATER THAT BUT NOT LESS THAN 12" BELOW THE PREVIOUSLY DETERMINED LOWEST FINISHED GRADE ELEVATION
2) ALLOWABLE SOIL BEARING CAPACITY OF 2,500 PSF PROVIDED BY THE OWNER PER THE GEOTECHNICAL REPORT UES DATED JULY 30, 2025, UES PROJECT No. A25117.01244.000.
3) FOUNDATIONS (WHERE SHOWN) HAVE BEEN SIZED FOR GIVEN LOADS AND ALLOWABLE SOIL PRESSURE. THEIR DESIGN ASSUMES THAT THERE ARE NO BURIED TANKS OR OTHER NEARBY OBSTRUCTIONS THAT WOULD BE DETRIMENTAL TO THEIR PROPER FUNCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF FOUNDATIONS FOR THE RESOLUTION OF ANY CONFLICT. WHERE A FOUNDATION DETAIL IS NOT SHOWN, McGEE CORPORATION AND THEIR ENGINEERS TAKE NO RESPONSIBILITY FOR THE FOUNDATION DESIGN.
4) ASTM F1 OR F2554 GRADE 36 ANCHOR BOLTS & WOOD TEMPLATES SHALL BE FURNISHED BY McGEE CORP.
5) ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI):
   "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-14)
   "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301-14)
   "HOT WEATHER CONCRETING" (ACI 305R)
   "COLD WEATHER CONCRETING" (ACI 306R, ACI 306.1)
6) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI AND A MINIMUM UNIT WEIGHT OF 145 PCF. REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
7) STRUCTURAL STEEL SHALL CONFORM TO
   Wide Flange Beams-ASTM A992, Grade 50, Fy = 50 KSI
   Angle and Channel - ASTM A36, Fy = 36 KSI
   Plate - ASTM A36, Fy = 36 KSI
   HSS - ASTM A500 SHAPED, Grade C, Fy = 50 KSI
   ASTM A500 ROUND, Grade C, Fy = 46 KSI
8) ALL WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LATEST AWS SPECIFICATIONS, USING E70XX ELECTRODES. ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
9) BOLTS SHALL CONFORM TO ASTM A325-N FOR STRUCTURAL STEEL BEARING AND TENSION CONNECTIONS. "SNUG TIGHT BOLTS PER AISC & RCSC SPECIFICATIONS.
10) ERECTION OF STEEL STRUCTURE SHALL BE PERFORMED PER ALL AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) ERECTION PROVISIONS.
11) STRUCTURAL AND MISCELLANEOUS STEEL SUBJECTED TO EXTERIOR EXPOSURE HAS BEEN PRIMED COATED ONLY. FIELD TOUCH-UP, FINISH PAINTING AND MAINTENANCE ARE THE RESPONSIBILITY OF THE OWNER.
12) LIGHT GAUGE COLD FORMED SHAPES SHALL CONFORM TO ASTM A653 AND ASTM C-955. ALL MEMBERS SHALL BE FORMED FROM MATERIAL HAVING A 50 KSI MINIMUM YIELD STRENGTH.
13) STRUCTURAL DESIGN CRITERIA:
   Governing Codes = 2018 NCSBC (2015 IBC) AND ASCE 7-16
   Risk Category = II
   Roof Live Load = 20 PSF
   Roof Snow Load = 22.9 PSF (Flat Roof + Drifting)
   Roof Snow Design (ASCE 7-16):
      Ground Snow Load-Pg = 10 PSF
      Flat roof Snow Load-Pf = 10 PSF
      Exposure Factor-Ce = 1.0
      Importance Factor-I = 1.0
      Thermal Factor-Ct = 1.2
   Wind Design (ASCE 7-16):
      Basic Wind Speed (3 Sec. Gust) - Vult = 119 MPH
      Importance Factor-I = 1.0
      Exposure - "C"
   Earthquake Design (ASCE 7-16):
      Importance Factor - I = 1.0
      Site Class - D
      Spectral Response Coefficients -
      Ss = 0.132 g Fa = 1.6 Sds = 0.141 g
      S1 = 0.065 g Fv = 2.4 Sd1 = 0.104 g
      Seismic Design Category -B
      Basic Seismic - Force - Resisting System -
         Ordinary Cantilevered Column System
         Response Modification Coefficient - R = 1 1/4
         System Overstrength Factor - Ωo = 1 1/4
         Deflection Amplification Factor - Cd = 1 1/4
         Analysis - Equivalent Lateral Force Procedure
         Seismic Base Shear (V) = 4.42 k

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CAD FILE NO./PLOT SCALE
1/8"=1'-0"
67018

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PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
	67018	P067018

CIRCLE K
EAST JACKSON BLVD. & NC 55
ERWIN, NC 28339 (HARNETT)

SCALE: 1/8"=1'-0"	IN ACCORDANCE	DRAWN BY: ASB
DATE: 5/7/2026	WITH REV. LETTER: _____	CHK'D BY:

METAL CANOPY 24'-0" x 163'-8"

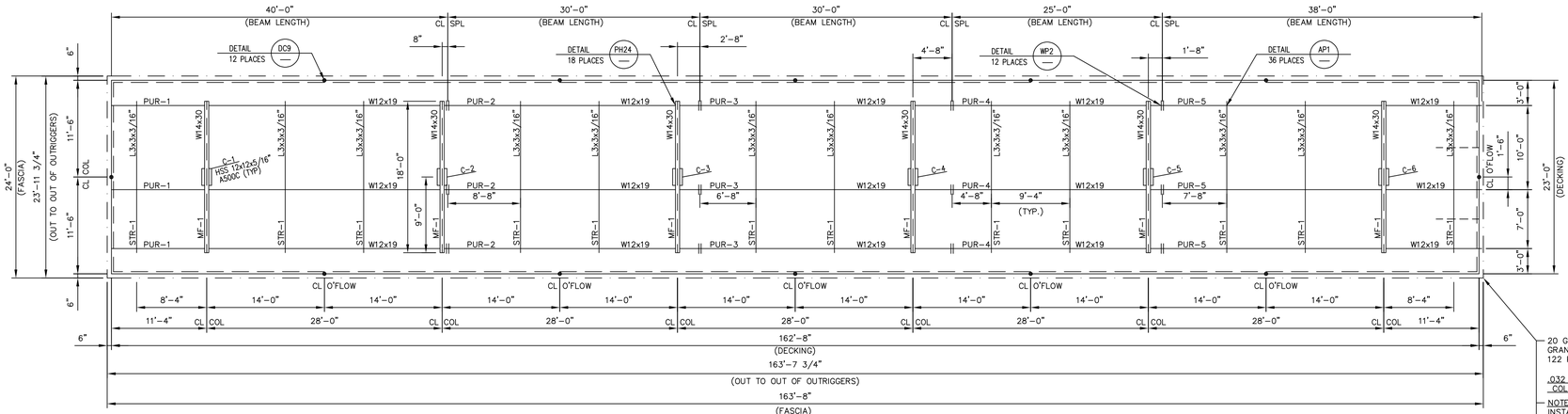
FOUNDATION PLAN

SHEET NO. 1 OF 3

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NORTH CAROLINA PROFESSIONAL SEAL 18427 ENGINEER DEAN ARP
5/7/2026

BLDG



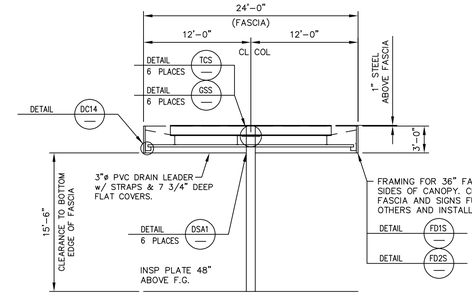
20 GA. WHITE EMBOSSED GRAND SPAN 16.0" STEEL DECKING 122 PANELS @ 23'-0"

.032 ALUMINUM GUTTER SYSTEM COLOR TO MATCH DECK.

NOTE: CANOPY BEAM CLIPS MUST BE INSTALLED ON BOTH SIDES OF THE PURLIN. SEE DETAIL CP4.

STITCH DECKING WITH TEK @ MIDSPAN BETWEEN PURLINS, 2" MINIMUM FROM FLAT SIDE OF DECK PAN. (INDICATED ON ROOF PLAN WITH DASHED LINE)

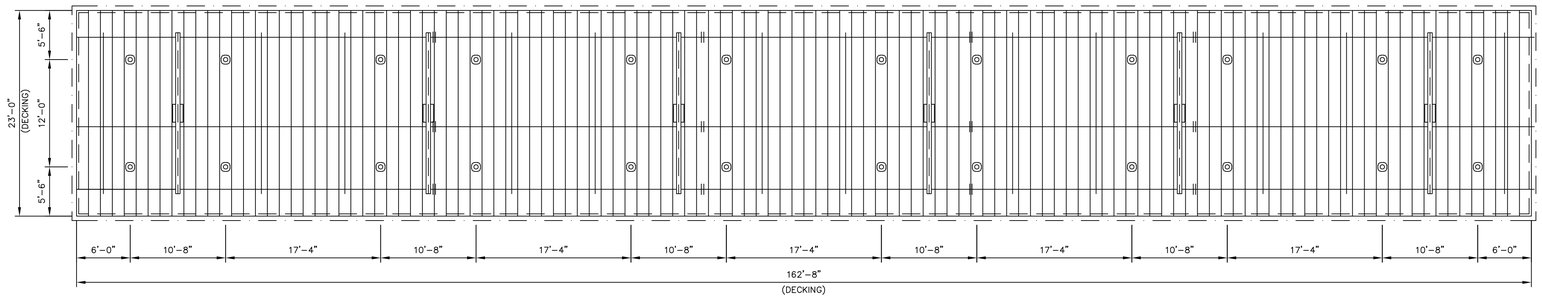
DETAIL CP4



CANOPY TO HAVE BELOW GROUND DRAINAGE SYSTEM with 3"ø PVC INTERNAL DRAINS. SEE ROOF PLAN FOR DIRECTIONS.

MAIN FRAME DETAIL

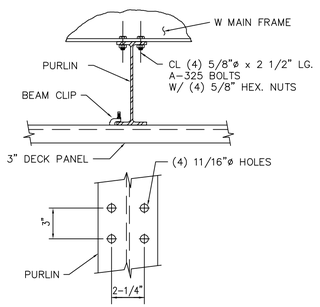
CANOPY ROOF PLAN



VERIFY LIGHT LAYOUT WITH PHOTOMETRIC PLAN TO FOLLOW.

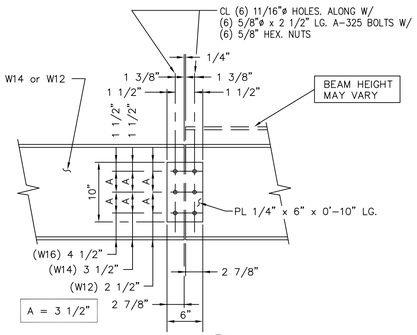
CANOPY LIGHTING LAYOUT

INSTALL (24) CUSTOMER-SUPPLIED CREE LED LIGHT FIXTURES ALL ELECTRICAL WORK BY OTHERS.



DETAIL PH24

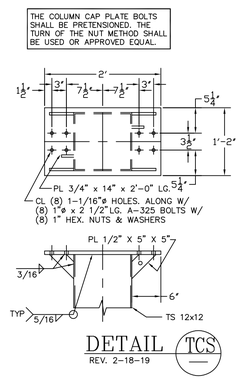
REV 09-21-98



DETAIL WP2

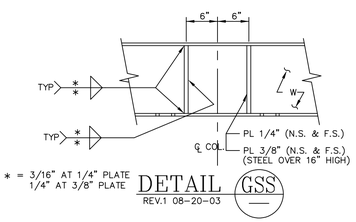
REV.4 11/09/00 3-BOLTS

THE COLUMN CAP PLATE BOLTS SHALL BE PRETENSIONED. THE TURN OF THE NUT METHOD SHALL BE USED OR APPROVED EQUAL.



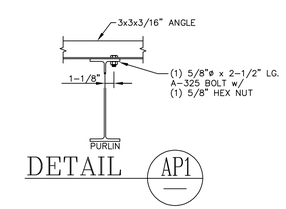
DETAIL TCS

REV. 2-18-19

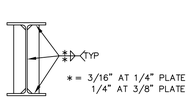


DETAIL GSS

REV.1 08-20-03



DETAIL AP1



STD STIFFENER WELD DETAIL

ANCHOR BOLT SHIPPING REQUIREMENTS

ANCHOR BOLT USE	BOLT DESCRIPTION	QUANTITY
BCS-BASE PLATE (6 PLACES)	1-1/4"ø x36" LONG HEX HEADED ANCHOR BOLTS	24

HARDWARE LIST BREAK-DOWN (REFERENCE ONLY)

ITEM USE (# OF PLACES FOR CHECKING ONLY)	DESCRIPTION	QUANTITY
TCS-TOP PLATE (6 PLACES)	1"ø x 3" BOLTS w/ NUTS & WASHERS	48
WP2-BEAM SPLICE (12 PLACES)	5/8"ø x 2-1/2" BOLTS w/ NUTS	72
WP2-BEAM SPLICE (12 PLACES)	6x10x1/4" PLATE	12
PH24-CONNECTION (18 PLACES)	5/8"ø x 2-1/2" BOLTS w/ NUTS	72
AP1-CONNECTION (36 PLACES)	5/8"ø x 2-1/2" BOLTS w/ NUTS	36

CANOPY SHIPPING STEEL HARDWARE MANIFEST

QUANTITY	DESCRIPTION	QUANTITY SHIPPED	PULLED BY	CHECKED BY	TRAILER #	LOADED BY
48	1" x 3" BOLTS w/ NUTS & WASHERS					
180	5/8"ø x 2-1/2" BOLTS w/ NUTS					
12	(WP2) 6x10x1/4" PLATE					

CANOPY SHIPPING MANIFEST		TOP PLATE	BASE PLATE	PLATE DRAINS	W/S & CONDUIT	VENT
6	MF-1 W14x30 (18'-0")					
3	PUR-1 W12x19 (39'-11 7/8")					
3	PUR-2 W12x19 (29'-11 3/4")					
3	PUR-3 W12x19 (29'-11 3/4")					
3	PUR-4 W12x19 (24'-11 3/4")					
3	PUR-5 W12x19 (37'-11 7/8")					
12	STR-1 L3x3x3/16" (18'-0")					
6	COL 1-6 HSS 12x12x5/16"					
84	SIDE OUTRIGGERS @ 48" O.C.					
14	END OUTRIGGERS @ 48" O.C.					
1-LOT	HARDWARE					

ERECTION NOTES:

REVIEW PLANS & DETAILS PRIOR TO INSTALLATION.

INSTALL BEAMS ACCORDING TO MARKED END #'S ON ROOF PLAN.

BEAM OVERHANG IS 4" LONGER ON RIGHT HAND END OF CANOPY. IF APPLICABLE, SAME APPLIES FOR BEAM OVERHANG AT TEE. THIS IS TO ALLOW FOR DECK PANEL GROWTH.

INSTALL DECK PANELS FROM LEFT TO RIGHT ON MAIN CANOPY , IF APPLICABLE SAME APPLIES FOR TEE.

SEE ROOF PLAN FOR PROPER SLOPE AND HOW SLOPE IS ACQUIRED.

SEE FASCIA DETAILS WHICH ALSO REFERS BACK TO GENERAL NOTES FOR OUTRIGGER SPACINGS.

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PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
	67018	P067018A

CIRCLE K
EAST JACKSON BLVD. & NC 55
ERWIN, NC 28339 (HARNETT)

SCALE: 1/8"=1'-0" | IN ACCORDANCE WITH REV. LETTER: ____ | DRAWN BY: ASB
DATE: 5/7/2026 | CHK'D BY:

METAL CANOPY 24'-0" x 163'-8"

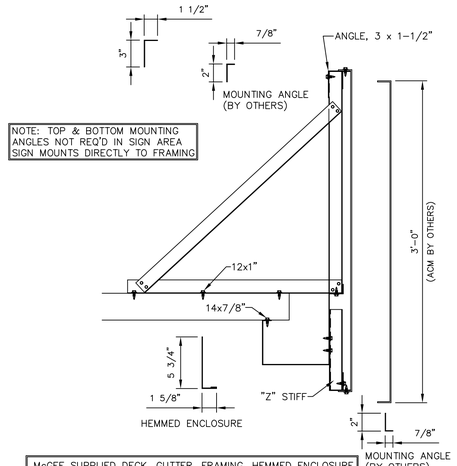
ROOF PLAN & DETAILS

SHEET NO. 2 OF 3

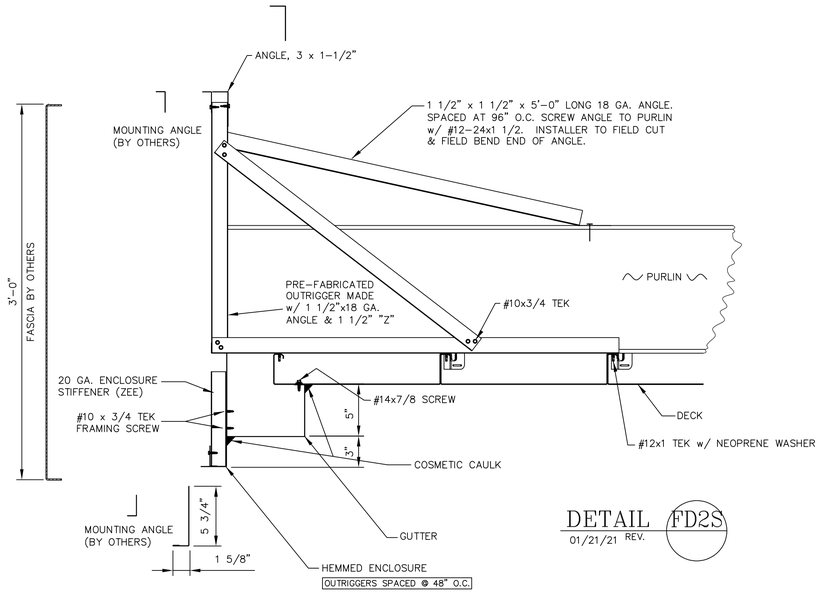
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NORTH CAROLINA PROFESSIONAL SEAL 18427 ENGINEER DEAN ARP 5/7/2026

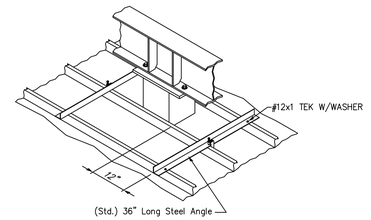
CAD FILE NO./PLOT SCALE
1/8"=1'-0"
67018



DETAIL FD1S
01/21/21 REV.



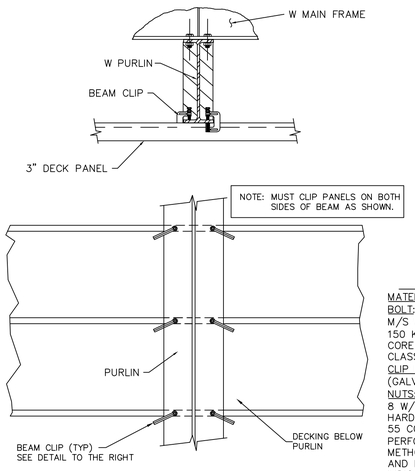
DETAIL FD2S
01/21/21 REV.

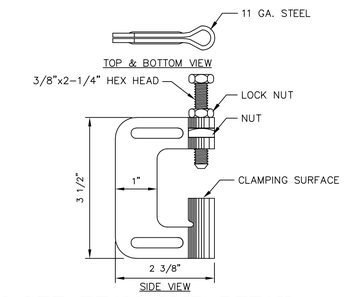


Step 1 Attach a support bracket on each side of the column to support the cut rib of deck. Keep bracket at least 12" away from column to allow room to seal around column. (Typ. all columns)
*Note: If column is with in 2'-0" of purlin beam, only one support bracket will be required.

Step 2 Use McGee beam clip and TEK screws as shown to secure and support.

DETAIL DSA1



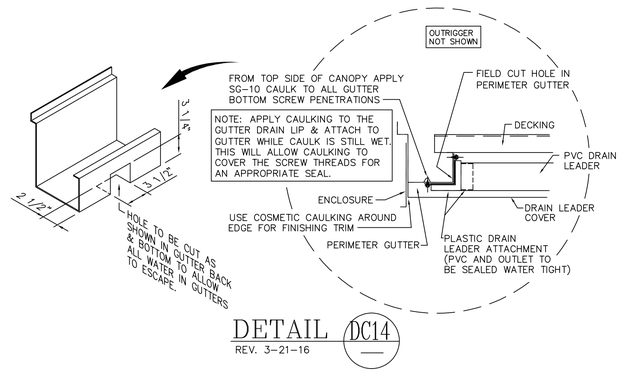


McGEE BEAM CLIP DETAIL

MATERIAL-
BOLT: 3/8" - 16 CLASS 3A X 2.25" STEEL FULLY THREADED HX HD M/S WITH CUP POINT. SAE J429, GR 8 W/ MIN TENSILE STRENGTH OF 150 KSI, CASE HARDENED & HEAT TREATED TO MIN/MAX MID-RADIUS CORE HARDNESS OF HRC 33-39. ZINC PLATED PER ASTM B695 WITH CLASS 55 COATING.
CLIP BODY MATERIAL: 11ga (0.115") ASTM A653 FS TYPE B (A526 CQ) (GALVANIZED G90) (MIN YIELD STRENGTH = 36 ksi)
NUTS: 3/8-16 3B HEX HEAD NUT AND SQUARE NUT PER SAE J995 GR 8 W/ MIN TENSILE STRENGTH OF 150 KSI, HEAT TREATED TO MIN/MAX HARDNESS OF HRC 33-39. ZINC PLATED PER ASTM B695 WITH CLASS 55 COATING.
PERFORMANCE TESTING PER ASTM F606/F606M -16 - "STANDARD TEST METHODS FOR DETERMINING MECHANICAL PROPERTIES OF EXTERNALLY AND INTERNALLY THREADED FASTENERS, WASHERS, DIRECT TENSION INDICATORS AND RIVETS"

DETAIL CP4
REV 02-21-19

McGEE BEAM CLIP INSTALLATION PROCEDURE: SET BEAM CLIP WITH BOLT ON TOP OF BEAM FLANGE AND CLAMPING SURFACE UNDER DECK RIB. PUSH CLIP AGAINST DECK AND BEAM FLANGE WITH BOLT AS FAR ONTO BEAM FLANGE AS POSSIBLE. WHILE KEEPING BEAM CLIP VERTICAL, TURN BOLT TO SNUG TIGHT WITHOUT BURROWING INTO STEEL BEAM FLANGE. THEN PROCEED TO TURN BOLT 3/4 TURN (270°). TIGHTEN LOCK NUT MAKING SURE THAT BEAM CLIP REMAINS IN POSITION.



DETAIL DC14
REV. 3-21-16

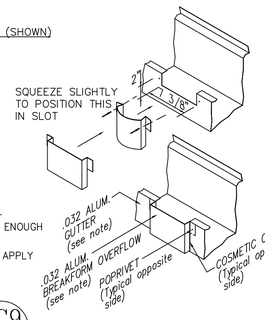
PERIMETER GUTTER O'FLOW CUTOUT (SHOWN)
NOTCH 2"x 7 3/8" HOLE
IN GUTTER AS SHOWN
(See roof plan for locations
on canopy)

CENTER GUTTER O'FLOW CUTOUT
NOTCH 2"x 7 3/8" HOLE
IN GUTTER AS SHOWN
ALTERNATE DIRECTION OF CUT OUT
AND OVERFLOW IF MORE THAN
(2) OVERFLOWS ARE PRESENT
(See roof plan for locations
on canopy)

OVERFLOW INSTALLATION

INSERT (1) FLANGE AND BEND JUST ENOUGH TO GET OTHER SIDE IN.

USE (1) POPRIVET EACH SIDE THEN APPLY COSMETIC CAULK AROUND EDGES.



DETAIL DC9
REV. 1 03-26-02

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PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
	67018	P067018B

CIRCLE K
EAST JACKSON BLVD. & NC 55
ERWIN, NC 28339 (HARTNETT)

SCALE: 1/8"=1'-0"	IN ACCORDANCE	DRAWN BY: ASB
DATE: 5/7/2026	WITH REV. LETTER: ____	CHK'D BY:

METAL CANOPY 24'-0" x 163'-8"

MISC. DETAILS

SHEET NO. 3 OF. 3

NORTH CAROLINA PROFESSIONAL SEAL 18427 ENGINEER DEAN ARP
5/7/2026

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CAD FILE NO./PLOT SCALE
1/8"=1'-0"
67018