

2018 APPENDIX B  
BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(Except 1 & 2-Family Dwellings & Townhouses)

Name of Project: HARRIS TEETER #175  
Address: 2006 S CROATAN HWY, KILL DEVIL HILLS, NC (DARE) Zip Code: 27948  
Owner/Authorized Agent: MAGGIE JONES  
Phone # 704-409-1812 E-Mail: MAGGIE.JONES@KIMLEY-HORN.COM

Owned By:  City/County  Private  
Code Enforcement Jurisdiction:  City KILL DEVIL HILLS  County  State

CONTACT:

FIRM	NAME	LICENSE#	PHONE#	EMAIL
Arch				
Civil				
Elect				
Fire Alarm				
Plumb				
Mech				
Sprinkler				
Standpipe				
Structural	<u>ARP ENGINEERING</u>	<u>DEAN ARP, PE</u>	<u>704-225-0079</u>	<u>DEAN@ARPENG.COM</u>
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  Alteration Level II  
 Repair  Alteration Level III  
 Chapter 14  Historic Property  
 Alteration Level I  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  II-A  III-A  IV  V-A  
 I-B  II-B  III-B  V-B

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

Standpipes:  N/A  CLASS II-WET  
 NO  CLASS II-DRY  
 CLASS I-WET  CLASS III-WET  
 CLASS I-DRY  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.)
3rd Floor		
2nd Floor		
Mezzanine		
1st Floor	5490	5490
Basement		
TOTAL	5490	5490

CAD FILE NO./PLOT SCALE  
 1/8" = 1'-0"  
 59000

ALLOWABLE AREA

- 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

- 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 Separation:  1-Hr  3-Hr Exception: \_\_\_\_\_  
 NO  2-Hr  4-Hr

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.

STORY NO.	DESCRIPTION AND USE	(A) MAX. AREA PER STORY (TABLE 508.4)	(B) ACTUAL AREA	(C) PERCENTAGE OF ALLOWABLE AREA PER STORY (B/A)	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 1.3
FIRST	METAL CANOPY (MERCANTILE)	5490	12,500	N/A	12,500

<sup>1</sup> 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 = \_\_\_\_\_ (P)  
 b. Total Building Perimeter = \_\_\_\_\_ (P)  
 c. Ratio (F/P) = \_\_\_\_\_ (F/P)  
 d. W = Minimum width of public way = \_\_\_\_\_ (W)  
 e. Percent of frontage increase:  $1 + 100 \{ (F/P - 0.25) \times W/30 \} = \text{_____} (\%)$   
<sup>2</sup> Unlimited area applicable under conditions of Section 507.  
<sup>3</sup> Maximum Building Area = Total number of stories in the building x D (max of 3 stories) (506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with 405.5.4. The maximum area of air traffic control towers must comply with 412.3.1.  
<sup>5</sup> Frontage increase is based on the unobstructed area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	55'	19'-10 1/2"	TS04.3
Building Height in Stories	TWO	ONE	TS04.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FT)	RATING** PROVIDED w/ VR 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 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  
 Exit Signs:  Yes  No  
 Fire Alarm:  Yes  No  
 Smoke Detection Systems:  Yes  No  Partial  
 Carbon Monoxide Detection:  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  
 Egress 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/Celling and/or Roof Structure is Provided for Purposes of Occupancy Separation.  
 Location of Doors w/ Panic Hardware (1010.1.10)  
 Location 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 REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE UNITS PROVIDED

PLUMBING FIXTURE REQUIREMENTS (SECTION 2902.1)

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS/TUBS			SERVICE SINK	DRINKING FOUNTAINS	
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX		REGULAR	ACCESSIBLE
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

Energy Requirements: NOT APPLICABLE - NOT CONDITIONED

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 (Remainder of this Section is N/A)  
 NO

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 134 mph (ASCE-7-10)  
 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  $S_s$  0.077 %g  $S_1$  0.044 %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  Dual w/Special Moment Frame  
 Building Frame  Dual w/Intermediate R/C or Special Steel  
 Moment Frame  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 \_\_\_\_\_ psf

Pile size, type, and capacity \_\_\_\_\_

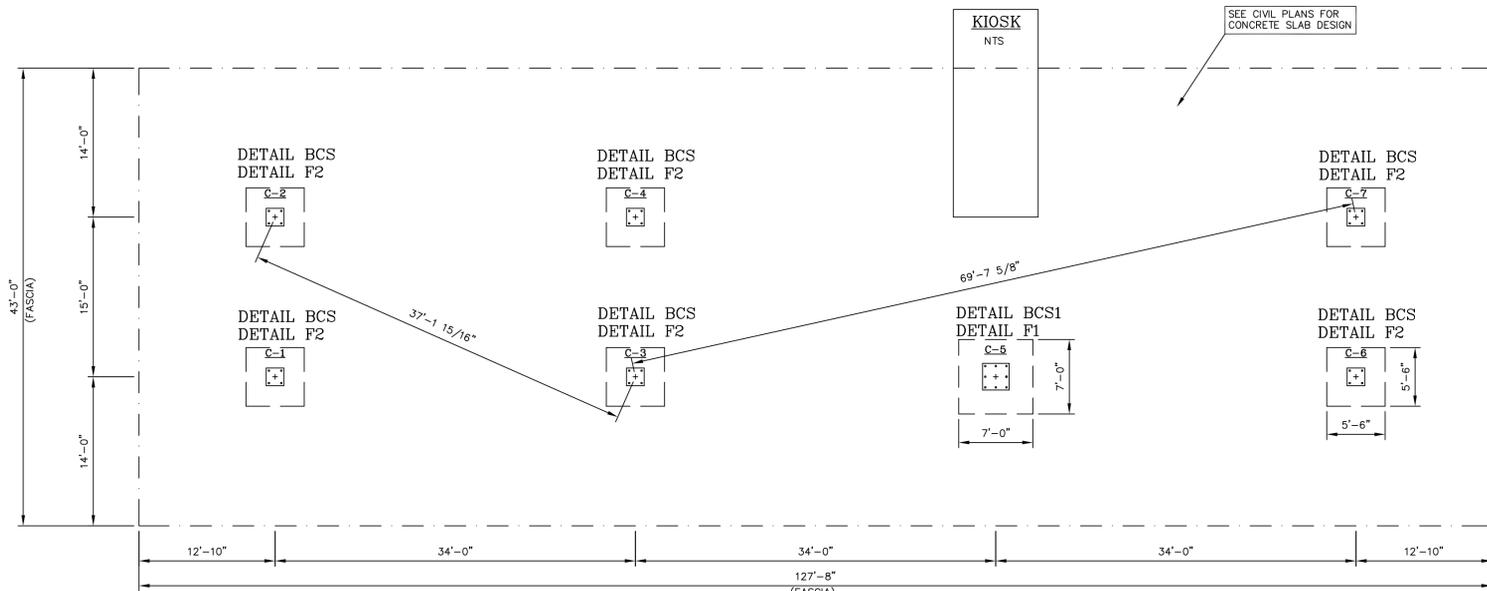
SPECIAL INSPECTIONS REQUIRED?  YES  NO

<b>McGEE CORPORATION</b> 12701 East Independence Blvd., P.O. Box 1375 Matthews, NC 28106-1375 Phone: (704) 882-1500 Wotts: (800) 526-5589	PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
		59018	AB59018
HARRIS TEETER #175 2006 S CROATAN HWY KILL DEVIL HILLS, NC 27948 (DARE)			
SCALE: 1/8"=1'-0"	IN ACCORDANCE WITH REV. LETTER:	DRAWN BY: SBL	CHECK'D BY:
DATE: 3/11/20			
These prints are the property of McGee Corp., reproduction or reuse is prohibited without written permission.			SHEET NO. <u>1</u> OF <u>1</u>
METAL CANOPY 43'-0" x 127'-8"			APPENDIX B

ARP ENGINEERING  
CONSULTING ENGINEERS

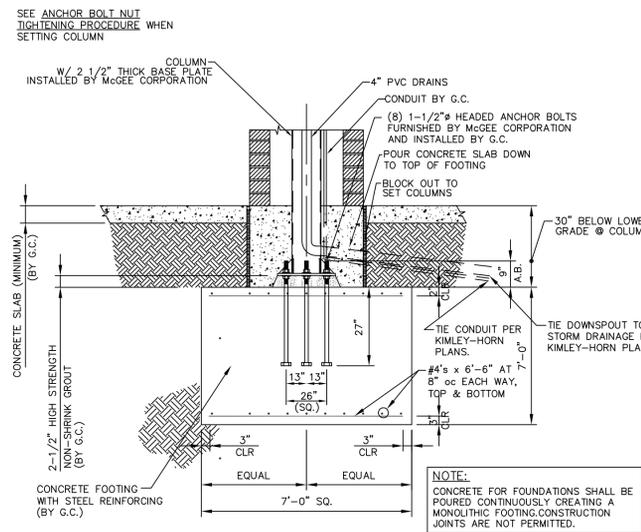
202 EAST FRANKLIN STREET, SUITE A  
 PO BOX 587, MONROE, NC 28111  
 (704) 225-0079  
 NC COA C2424



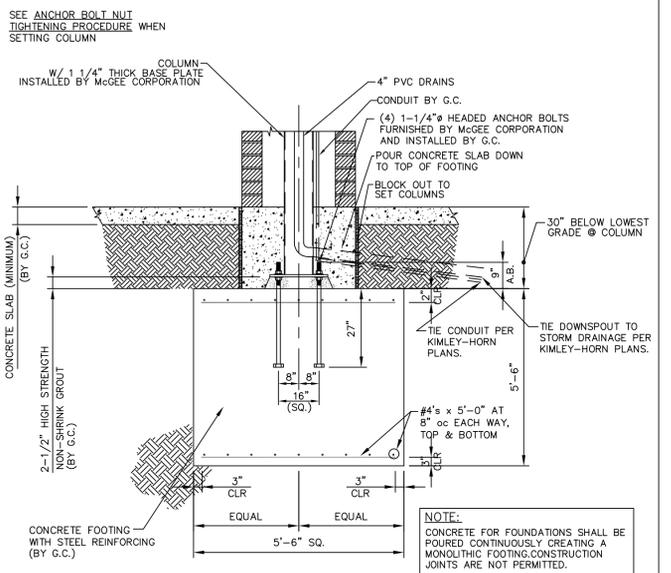


S CROATAN HWY

FOUNDATION PLAN  
ALL DIAGONAL DIMENSIONS SHOWN ARE GIVEN TO CL OF COLUMN

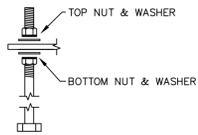


DETAIL F1



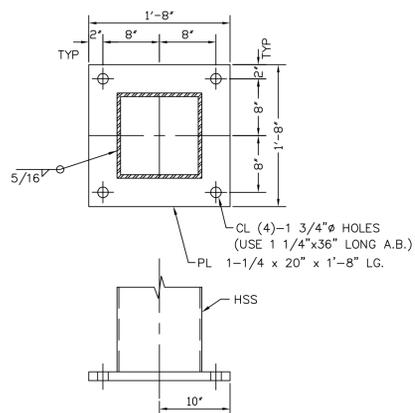
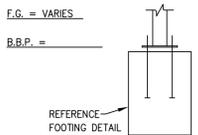
DETAIL F2

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).

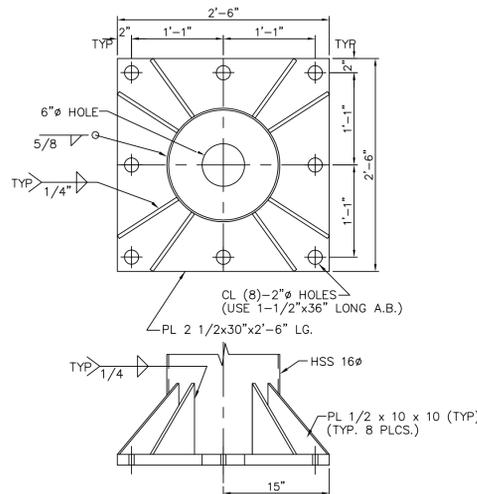


LEGEND  
F.G. = FINISHED GRADE (DRIVE SLAB AT COL.)  
F.F. = FINISHED FLOOR  
B.B.P. = BOTTOM OF BASE PLATE  
T.O.I. = TOP OF ISLAND  
T.O.F. = TOP OF FOOTING  
D = DRAIN DIRECTION  
V = VENT DIRECTION (SIZE & QTY.)  
C = CONDUIT DIRECTION (SIZE & QTY.)

HIGH POINT UNDER CANOPY = 12.50  
TOP OF BUILDING =



DETAIL BCS  
REV.2-5-19



DETAIL BCS1  
REV.1 1-13-99

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: \_\_\_\_\_

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.

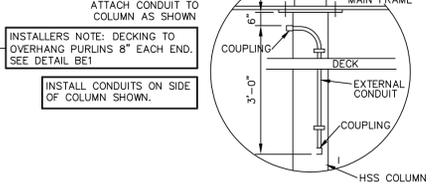
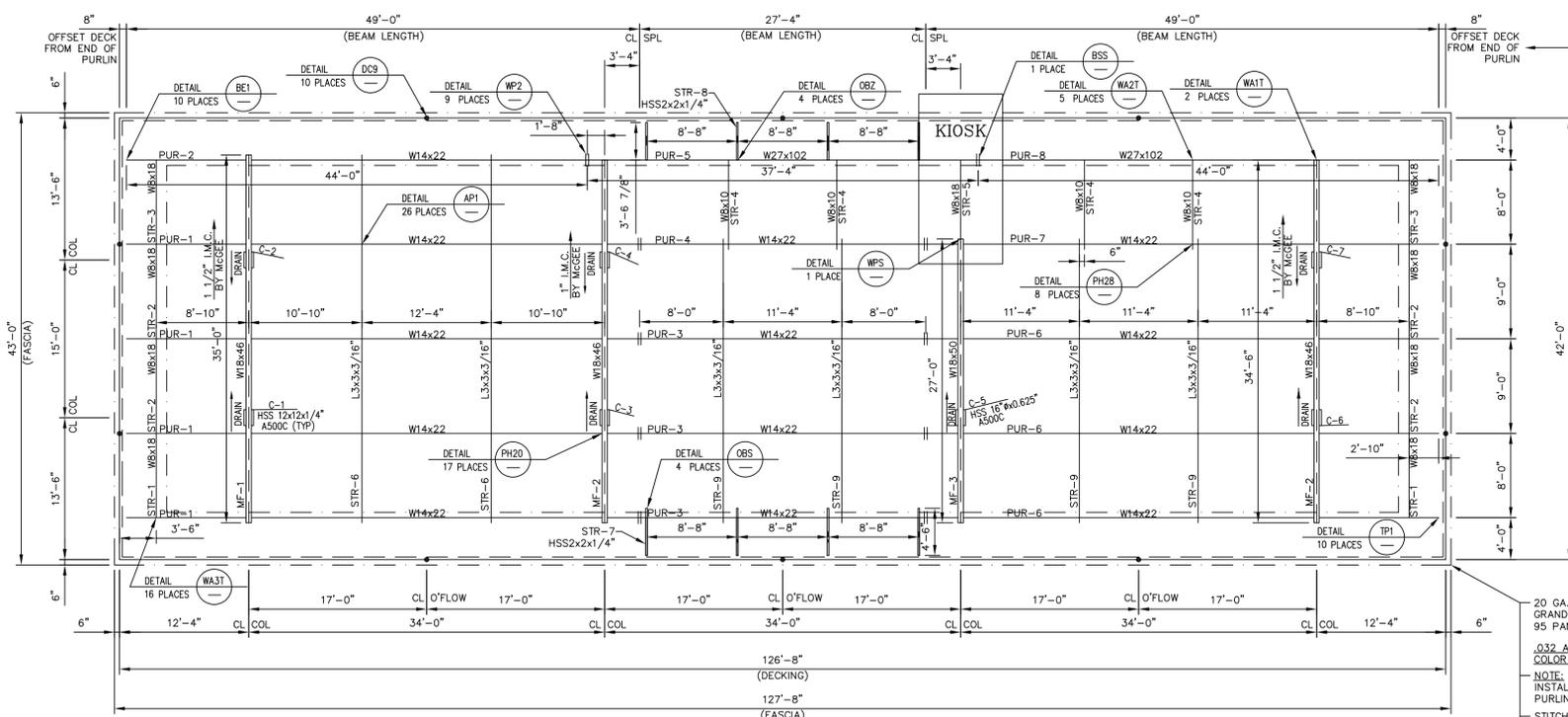
GENERAL NOTES

- 1) MINIMUM REQUIRED SOIL BEARING PRESSURE OF 3,000 PSF SHALL BE PROVIDED BY THE OWNER PER THE GEOTECHNICAL REPORT BY ECS SOUTHEAST, LLP DATED OCTOBER 21, 2019, ECS PROJECT NO. 22-28424.
- 2) FOUNDATIONS (WHERE SHOWN) HAVE BEEN SIZED FOR GIVEN LOADS AND ALLOWABLE SOIL PRESSURE. THEIR DESIGN ASSUMES THAT THERE ARE NO 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.
- 3) ASTM F1554 GRADE 36 ANCHOR BOLTS & WOOD TEMPLATES SHALL BE FURNISHED BY McGEE CORP.
- 4) 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)
- 5) 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.
- 6) NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107, STANDARD SPECIFICATION FOR PACKAGED DRY, HYDRAULIC CEMENT GROUT (NONSHRINK). GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI WHEN TESTED ACCORDING TO ASTM C109, STANDARD TEST METHOD OF HYDRAULIC CEMENT MORTARS. GROUT SHALL NOT CONTAIN CALCIUM CHLORIDE OR INTENTIONALLY ADDED CHLORIDES. GROUT SHALL BE PLACED PER MANUFACTURER'S RECOMMENDATIONS.
- 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 WELDING 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 BE HIGH STRENGTH CONFORMING TO ASTM A325-N. BOLTS SHALL BE TIGHTENED TO THE "SNUG-TIGHT CONDITION" PER AISC AND RCSC SPECIFICATIONS. THE "SNUG-TIGHT CONDITION" IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT. ALL OF THE BOLTS SHALL BE TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.
- 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 NCSCB (2015 IBC) AND ASCE 7-10  
Risk Category = II  
Roof Live Load = 20 PSF  
Roof Snow Load = 27.8 PSF (Flat Roof + Drifting)  
Roof Snow Design (ASCE 7-10):  
Ground Snow Load-Pg = 10 PSF  
Flat roof Snow Load-Pf = 13.4 PSF  
Exposure Factor-Ce = 1.0  
Importance Factor-I = 1.0  
Thermal Factor-Ct = 1.2  
Wind Design (ASCE 7-10):  
Basic Wind Speed (3 Sec. Gust) - Vult = 134 MPH  
Vosd = 104 MPH  
Importance Factor-I = 1.0  
Exposure - "C"  
Earthquake Design (ASCE 7-10):  
Importance Factor - I = 1.0  
Site Class - D  
Spectral Response Coefficients -  
Ss = 0.077 g Fa = 1.6 Sds = 0.082 g  
SI = 0.044 g Fv = 2.4 Sd1 = 0.070 g  
Seismic Design Category - B  
Basic Seismic - Force - Resisting System -  
Steel Ordinary Cantilever Column System  
Response Modification Coefficient - R = 1 1/4  
System Overstrength Factor - Omega = 1 1/4  
Deflection Amplification Factor - Cd = 1 1/4  
Analysis - Equivalent Lateral Force Procedure  
Seismic Base Shear (V) = 3.61 k

ARP ENGINEERING  
CONSULTING ENGINEERS

202 EAST FRANKLIN STREET, SUITE A  
PO BOX 587, FLORENCE, NC 28111  
(704) 225-0079  
NC COA C2424

<b>McGEE CORPORATION</b> 12701 East Independence Blvd., P.O. Box 1375 Matthews, NC 28106-1375 Phone: (704) 882-1500 Website: (800) 526-5589	PR. JOB NO. _____	FINAL JOB NO. 59018	DRAWING NO. P059018
	HARRIS TEETER #175 2006 S CROATAN HWY. KILL DEVIL HILLS, NC 27948 (DARE)		
SCALE: 1/8"=1'-0" DATE: 3/11/20	IN ACCORDANCE WITH REV. LETTER: _____	DRAWN BY: SBL CHECKED BY: _____	SHEET NO. 1 OF 5
METAL CANOPY 43'-0" x 127'-8" FOUNDATION PLAN			3/11/2020



SCHEDULE OF CONDUITS

COLUMN NUMBER	# OF CONDUITS	SIZE	INTENDED USE
2	1	1-1/2"	POWER PANEL (BY MCGEE EXTERNAL TYP.)
5	1	1"	POWER PANEL (BY MCGEE EXTERNAL TYP.)
7	1	1-1/2"	POWER PANEL (BY MCGEE EXTERNAL TYP.)

ANCHOR BOLT SHIPPING REQUIREMENTS

ANCHOR BOLT USE	BOLT DESCRIPTION	QUANTITY
BCS-BASE PLATE (6 PLACES)	1-1/4" x 36" LONG HEX HEADED ANCHOR BOLTS	24
BCS1-BASE PLATE (1 PLACE)	1-1/2" x 36" LONG HEX HEADED ANCHOR BOLTS	8

HARDWARE LIST BREAK-DOWN (REFERENCE ONLY)

ITEM USE (# OF PLACES FOR CHECKING ONLY)	DESCRIPTION	QUANTITY
TCS-TOP PLATE (6 PLACES)	1" x 3 1/2" BOLTS w/ NUTS	24
TCS1-TOP PLATE (1 PLACE)	1" x 3 1/2" BOLTS w/ NUTS	8
WP2-BEAM SPLICE (9 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	54
WP2-BEAM SPLICE (9 PLACES)	6x10x1/4" PLATE	9
PH20-CONNECTION (17 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	52
PH28-CONNECTION (8 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	32
AP1-CONNECTION (26 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	26
BSS-CONNECTION (1 PLACE)	3/4" x 3-1/2" BOLTS w/ NUTS	14
WA1T-CONNECTION (2 PLACES)	3/4" x 2-1/2" BOLTS w/ NUTS	18
WA1T-CONNECTION (2 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	4
WA1T-CONNECTION (2 PLACES)	L3x3x1/4" x 0'-9" LG.	4
WA1T-CONNECTION (2 PLACES)	L2x2x3/16" x 1'-4" LG.	2
WA2T-CONNECTION (5 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	30
WA2T-CONNECTION (5 PLACES)	L3x3x1/4" x 0'-6" LG.	10
WA3T-CONNECTION (16 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	96
WA3T-CONNECTION (16 PLACES)	L3x3x1/4" x 0'-6" LG.	32
WPS-CONNECTION (1 PLACE)	3/4" x 2-1/2" BOLTS w/ NUTS	4
WPS-CONNECTION (1 PLACE)	6x6x3/8" LG. PLATE	1
OBZ-CONNECTION (4 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	24
OBZ-CONNECTION (4 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	8

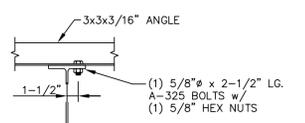
S CROATAN HWY CANOPY ROOF PLAN

20 GA. WHITE EMBOSSED GRAND SPAN 16.0" STEEL DECKING 95 PANELS @ 42'-0"

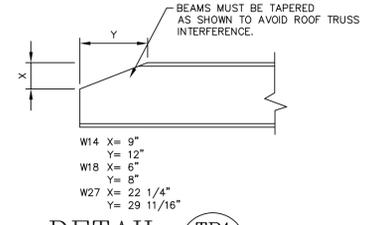
.032 ALUMINUM GUTTER SYSTEM COLOR TO MATCH DECK

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

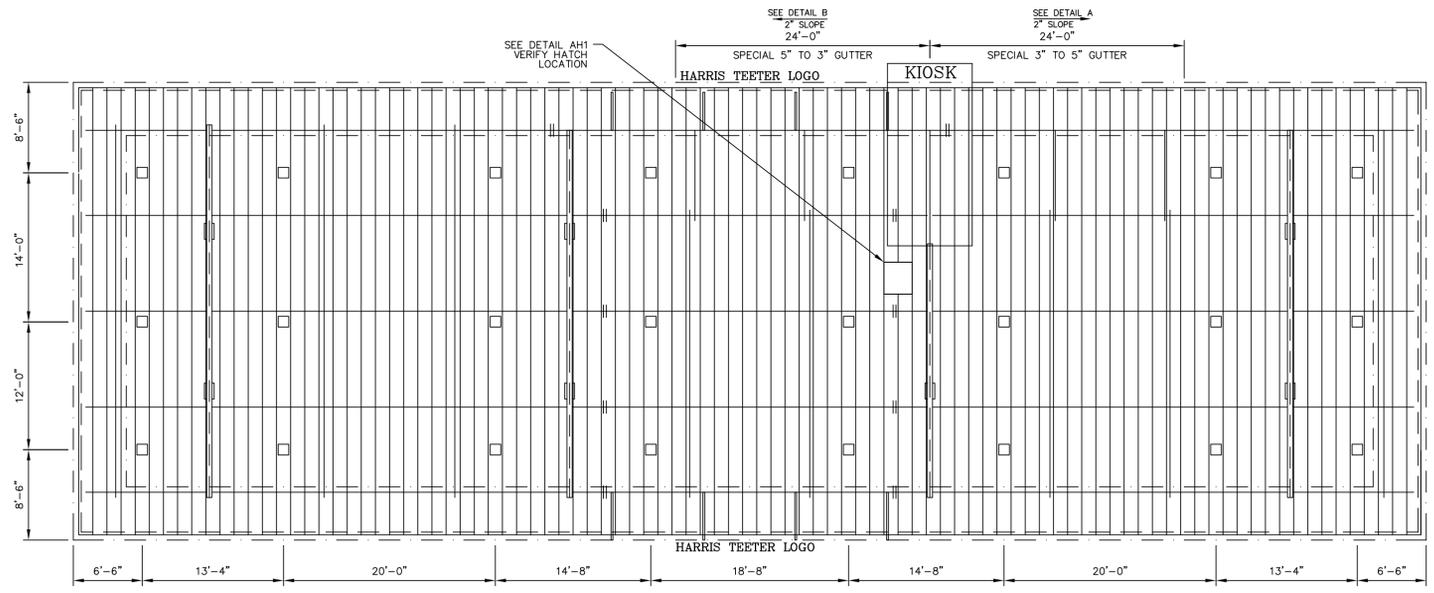
STITCH DECKING WITH TEK @ MIDSPAN BETWEEN PURLINS, 2" MINIMUM FROM FLAT SIDE OF DECK PAN. (INDICATED ON ROOF PLAN WITH DASHED LINE)



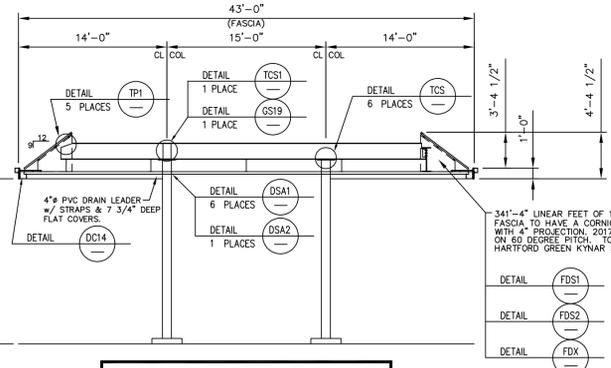
DETAIL AP1



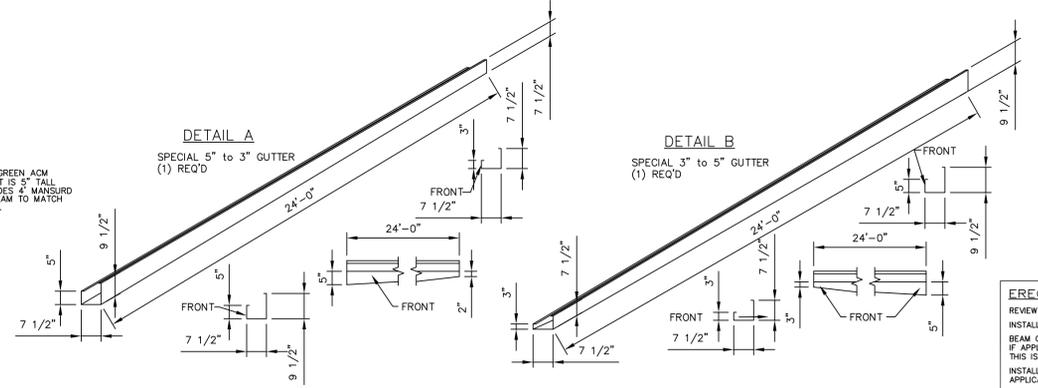
DETAIL TP1 6/22/01



CANOPY LIGHTING LAYOUT (24) LSI-CRUS-SC-LED-HO-50-UE LIGHT FIXTURES ALL WIRING BY OTHERS.



MAIN FRAME DETAIL



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.

\*BP FASCIA ONLY\* START FASCIA AT LEFT END - SEE DIMENSION FOR LOCATION OF FIRST T4 PANEL.

CANOPY SHIPPING STEEL HARDWARE MANIFEST

QUANTITY	DESCRIPTION	QUANTITY SHIPPED	PULLED BY	CHECKED BY	TRAILER #	LOADED BY
344	5/8" x 2-1/2" BOLTS w/ NUTS					
14	3/4" x 3-1/2" BOLTS w/ NUTS					
22	3/4" x 2-1/2" BOLTS w/ NUTS					
32	1" x 3 1/2" BOLTS w/ NUTS					
9	(WP2) 6x10x1/4" PLATE					
4	L3x3x1/4" x 0'-9" LG. (WA1T)					
2	L2x2x3/16" x 1'-4" LG. (WA1T)					
42	L3x3x1/4" x 0'-6" LG. (WA2T, WA3T)					
1	(WPS) 6x6x3/8" PLATE					

CANOPY SHIPPING MANIFEST

	TOP PLATE	BASE PLATE	PLATE DRAINS	W/S & CONDUIT	VENT
1	MF-1 W18X46 (35'-0")				
2	MF-2 W18X46 (34'-5 1/8")				
1	MF-3 W18X50 (27'-0")				
4	PUR-1 W14X22 (48'-11 7/8")				
1	PUR-2 W14X22 (43'-11 7/8")				
3	PUR-3 W14X22 (27'-3 3/4")				
1	PUR-4 W14X22 (27'-3 3/4")				
1	PUR-5 W27X102 (37'-3 3/4")				
3	PUR-6 W14X22 (48'-11 7/8")				
1	PUR-7 W14X22 (48'-11 7/8")				
1	PUR-8 W27X102 (43'-11 7/8")				
2	STR-1 W8X18 (8'-0")				
4	STR-2 W8X18 (9'-0")				
2	STR-3 W8X18 (8'-0")				
4	STR-4 W8X10 (8'-6")				
1	STR-5 W8X18 (7'-5 3/4")				
2	STR-6 L3x3x3/16" (35'-0")				
4	STR-7 HSS2x2x1/4" (4'-6")				
4	STR-8 HSS2x2x1/4" (3'-6 7/8")				
4	STR-9 L3x3x3/16" (27'-0")				
6	COL 1,2,3,4,6,7, HSS 12x12x1/4"				
1	COL 5, HSS 16"x0.625"				
1-Lot	HARDWARE				

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. 59018  
FINAL JOB NO. 59018  
DRAWING NO. P059018A

HARRIS TEETER #175  
2006 S CROATAN HWY.  
KILL DEVIL HILLS, NC 27948 (DARE)

SCALE: 1/8"=1'-0"  
DATE: 3/11/20

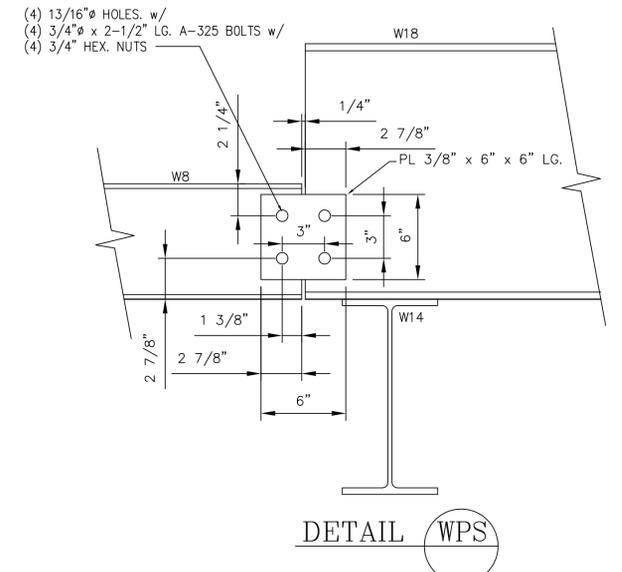
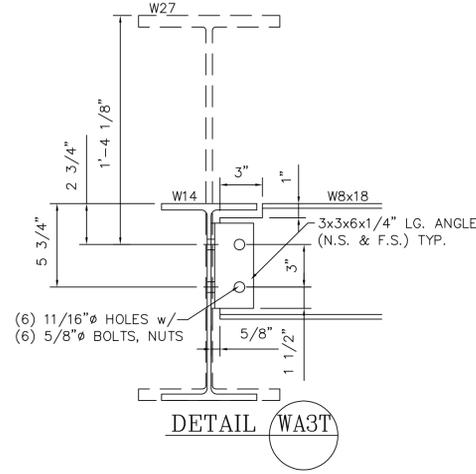
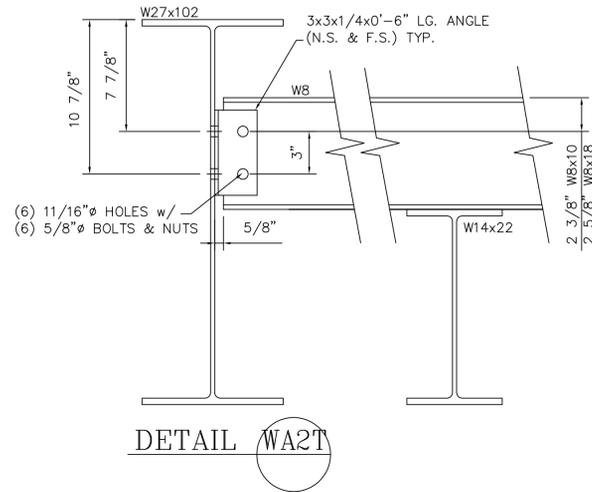
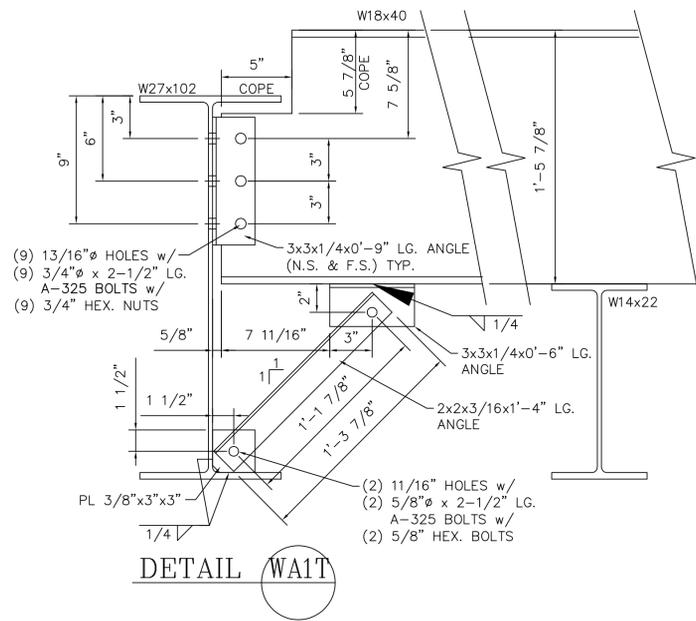
IN ACCORDANCE WITH REV. LETTER:  
DRAWN BY: SBL  
CHK'D BY:

METAL CANOPY 43'-0" x 127'-8"  
ROOF PLAN & DETAILS

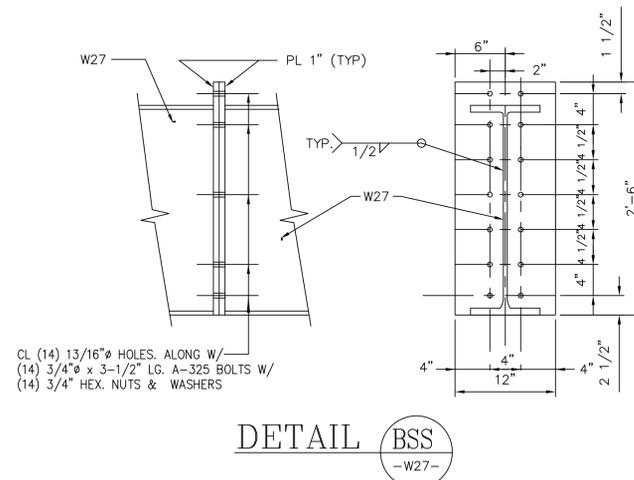
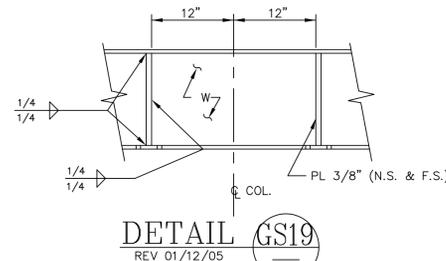
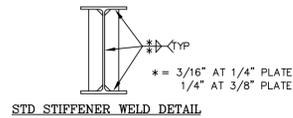
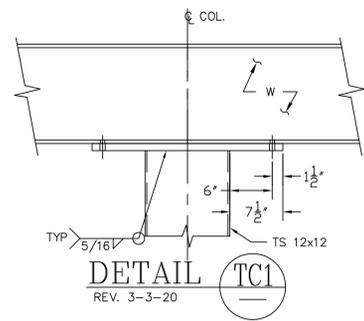
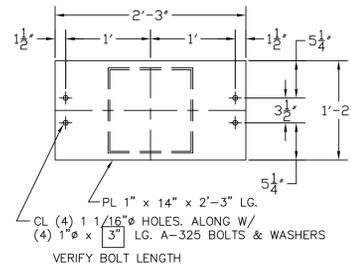
SHEET NO. 2 OF 5

3/11/2020

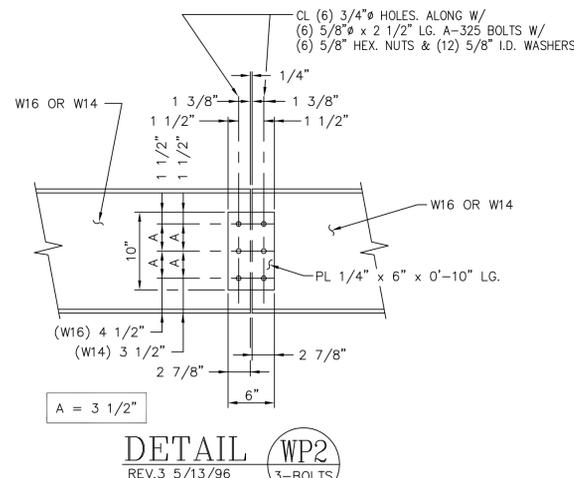
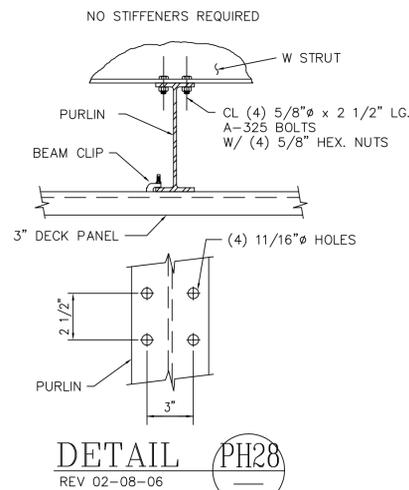
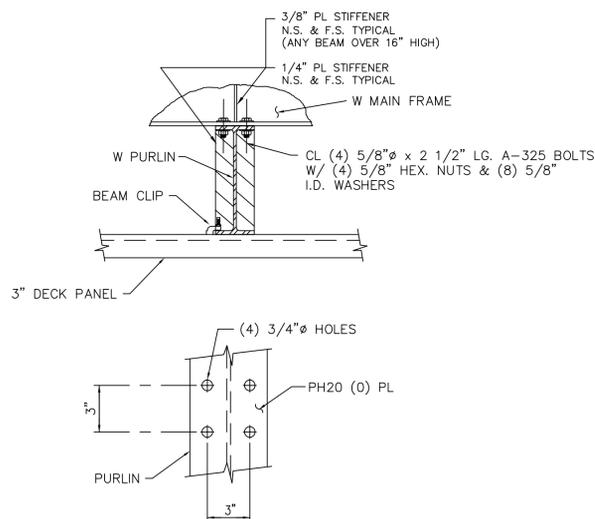
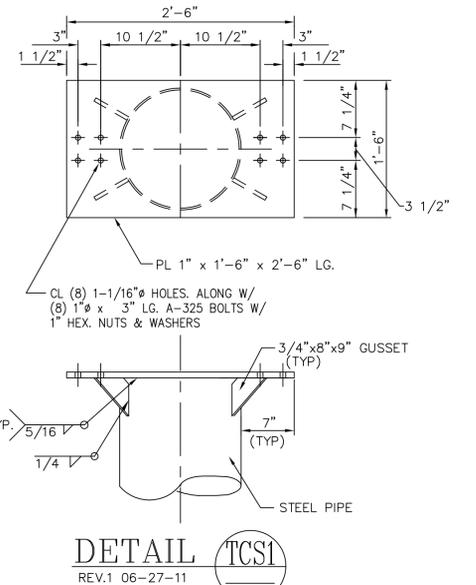




THE COLUMN CAP PLATE BOLTS SHALL BE PRETENSIONED. THE TURN OF THE NUT METHOD SHALL BE USED OR APPROVED EQUAL.



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

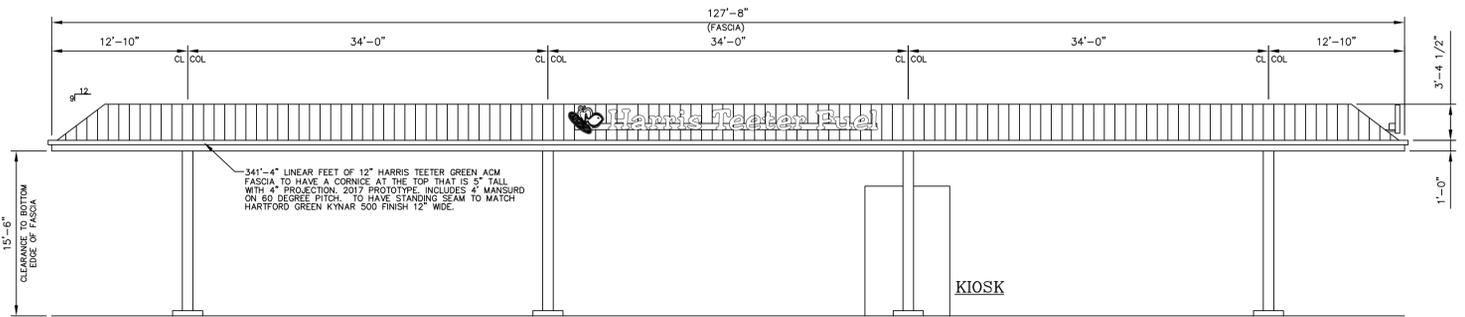


ARP ENGINEERING CONSULTING ENGINEERS

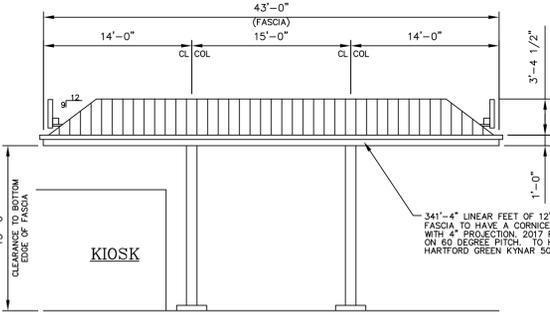
202 EAST FRANKLIN STREET, SUITE A  
PO BOX 387, MONROE, NC 28111  
(704) 225-0079  
NC COA C2424

<b>McGEE CORPORATION</b> 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.
	59018	59018	P059018C
HARRIS TEETER #175 2006 S CROATAN HWY. KILL DEVIL HILLS, NC 27948 (DARE)	SCALE:	IN ACCORDANCE WITH REV. LETTER:	DRAWN BY:
	NTS		SBL
DATE:	3/11/20	CHK'D BY:	
METAL CANOPY 43'-0" x 127'-8"			SHEET NO.
MISC. DETAILS			4 OF 5

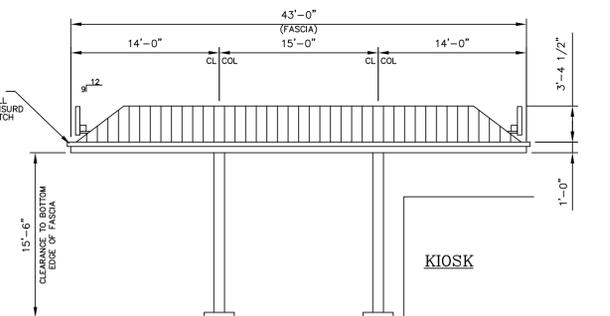




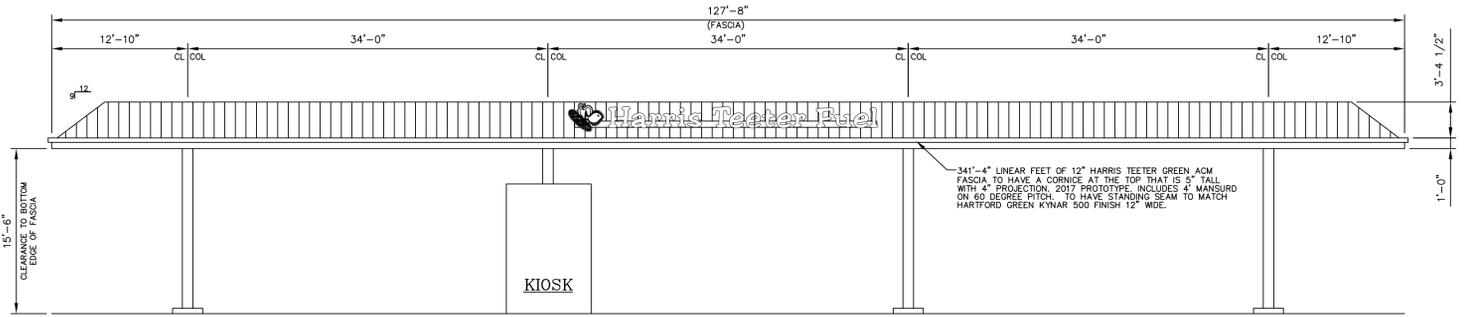
FRONT ELEVATION



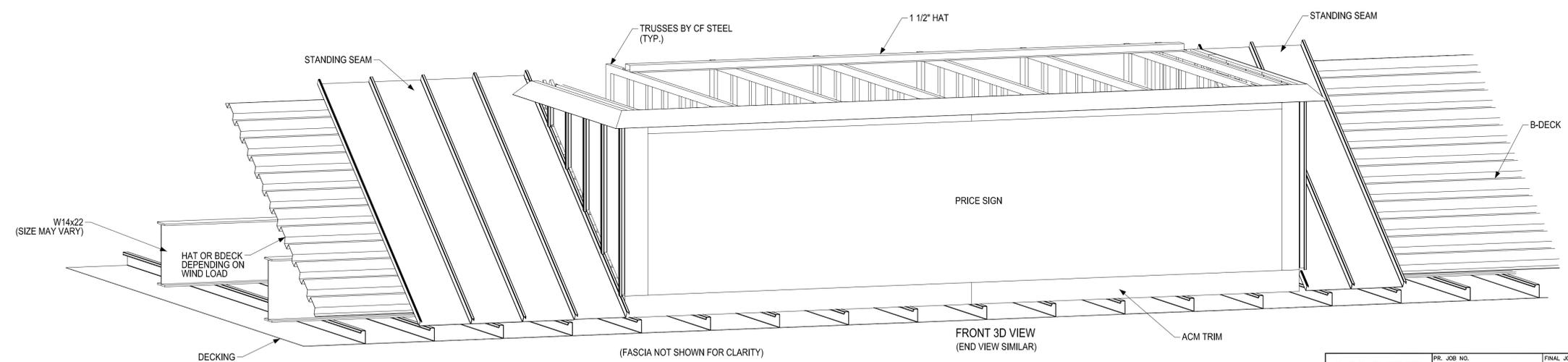
LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



REAR ELEVATION



FRONT 3D VIEW  
(END VIEW SIMILAR)

ARP ENGINEERING  
CONSULTING ENGINEERS

202 EAST FRANKLIN STREET, SUITE A  
PO BOX 587, MONROE, NC 28111  
(704) 225-0079

<b>McGEE</b> CORPORATION 12701 East Independence Blvd., P.O. Box 1375 Matthews, NC 28106-1375 Phone: (704) 882-1500 Watts: (800) 526-5389	PRJ. JOB NO.	FINAL JOB NO.	DRAWING NO.
	59018	59018	P059018D
HARRIS TEETER #175 2006 S CROATAN HWY. KILL DEVIL HILLS, NC 27948 (DARE)	SCALE:	IN ACCORDANCE	DRAWN BY:
	NTS	WITH REV. LETTER:	SBL
These prints are the property of McGee Corp. Reproduction or reuse is prohibited without written permission.	DATE:	3/11/20	CHEK'D BY:
METAL CANOPY 43'-0" x 127'-8"			SHEET NO.
ELEVATIONS			5 OF 5

