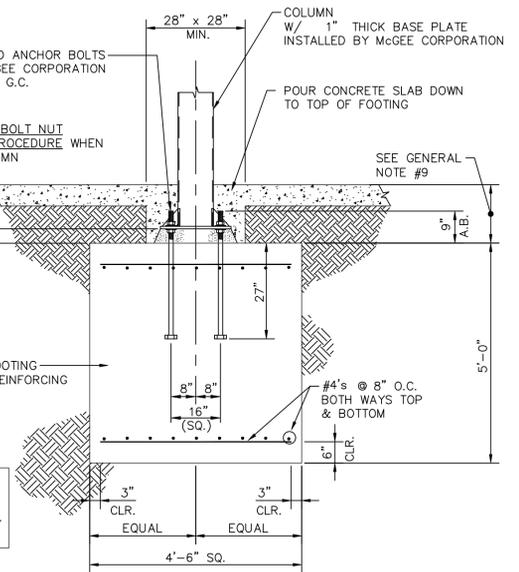


FOUNDATION PLAN
ALL DIAGONAL DIMENSIONS SHOWN ARE GIVEN TO CL OF COLUMN

FOOTING REBAR NOTE:
REBAR MATS / CAGES TO BE CONSTRUCTED WITH TIES PER ACI REQUIREMENTS. WELDING OF REBAR MATS / CAGES IS NOT ALLOWABLE WITHOUT APPROVAL FROM ENGINEER OF RECORD.

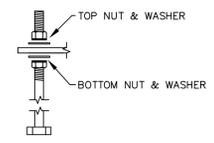
FOUNDATION SOIL NOTE: PER SRE GEOTECH REPORT 22-ADUC-1 DATED AUG 8, 2022. SITE HAS UNCONTROLLED EXISTING FILL / WEAK ALLUVIAL SOILS.
OWNER HAS DECIDED ON USE OF RAMMED AGGREGATE PIERS AS A METHOD OF SOILS IMPROVEMENT. CANOPY FOUNDATIONS HAVE BEEN DESIGNED USING AN ALLOWABLE SOIL BEARING VALUE OF 1500 PSF FOR THIS SOIL CONDITION.
MAX COLUMN VERTICAL LOADS (UNFACTORED ASD LOADS):
- $P_{dead} = 6.5$ KIPS (DOES NOT INCLUDE FOUNDATION WEIGHT)
- $P_{live/snow} = 12.5$ KIPS
- $P_{dn} = 15$ KIPS

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

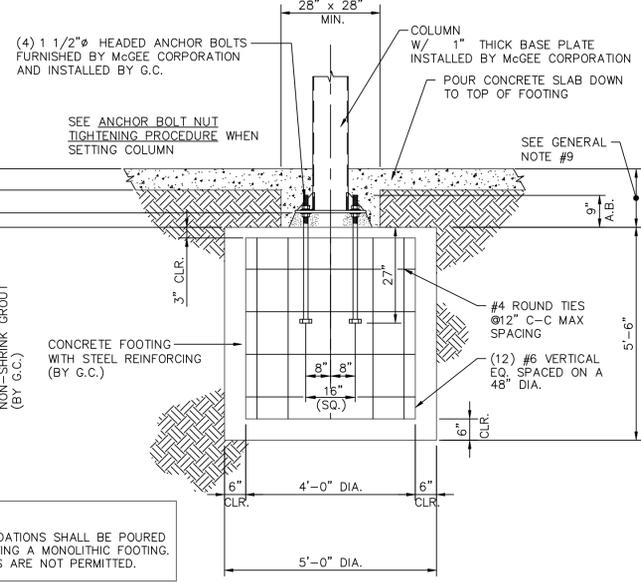
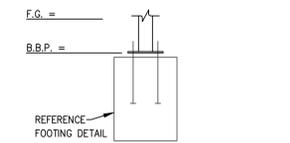


DETAIL F1
REV. 01/22/03

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 TOP 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).

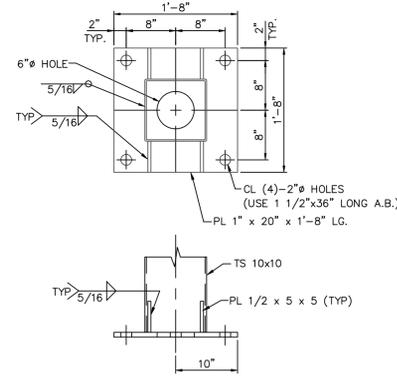


LEGEND
F.G. = FINISHED GRADE (DRIVE SLAB AT COL.)
F.F. = FINISHED FLOOR
B.B.P. = BOTTOM OF BASE PLATE
T.O.I. = TOP OF ISLAND
T.O.F. = TOP OF FOOTING
HIGH POINT UNDER CANOPY 0"
TOP OF BUILDING



DETAIL F2
REV. 01/22/03

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



DETAIL BCS
REV. 2-1-23-02

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

CANOPY SIZE	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
COLUMN SPACING	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
CLEARANCE	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
SIGNAGE	<input type="checkbox"/> NUMBER APPROVED AS SUBMITTED
	<input type="checkbox"/> LAYOUT APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
DECALS	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
LIGHTS	<input type="checkbox"/> NUMBER APPROVED AS SUBMITTED
	<input type="checkbox"/> LAYOUT APPROVED AS SUBMITTED
	<input type="checkbox"/> 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:

- ERECTOR OF STEEL STRUCTURE SHALL BE PERFORMED PER ALL AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) ERECTION PROVISIONS.
 - ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", (ACI 318-14). 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.
 - STRUCTURAL STEEL SHALL CONFORM TO:
Wide Flange Beams - ASTM A992, Grade 50, $F_y = 50$ KSI
Structural Angle and Channel - ASTM A36, $F_y = 36$ KSI
Structural Plate - ASTM A572, Grade 50, $F_y = 50$ KSI
Structural Tubing - ASTM A500, Grade B, $F_y = 46$ KSI
Structural Pipe - ASTM A500, Grade B, $F_y = 42$ KSI
 - 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.
 - BOLTS SHALL CONFORM TO ASTM A325 FOR STRUCTURAL STEEL CONNECTIONS. BOLTS SHALL BE TIGHTENED TO SNUG TIGHT PER AISC & RCSC SPECIFICATIONS.
 - MINIMUM REQUIRED SOIL BEARING PRESSURE OF 1500 PSF PER SRE Rpt # 22-ADUC-1 8/28/22
 - DESIGN CRITERIA- 2018 NC BLDG CODE (2015 IBC)
Roof Live Load = 25 PSF
Roof Snow Load (ASCE 7-10):
Ground Snow Load- $P_g = 20$ PSF
Flat Roof Snow Load- $P_f = 20$ PSF
Snow Exposure Factor- $C_e = 1.0$
Snow Importance Factor- $I_s = 1.0$ (Risk Category II)
Thermal Factor- $C_t = 1.2$
Wind Load (ASCE 7-10) :
Ultimate Wind Speed (3-sec. Gust) - $V = 120$ MPH
Lateral = 25 PSF (0.6 W FOR ASD)
Uplift = 20 PSF (0.6 W FOR ASD)
Wind Importance Factor- $I_w = 1.0$ (Risk Category II)
Wind Exposure - B
Internal Pressure Coefficients - $C_{pi} = 0.00$ (Open Bldg.)
SEISMIC LOAD : (ASCE 7-10)
Seismic Importance Factor - $I_e = 1.00$ (Risk Category II)
Risk Category- II
Mapped MCEr Response Accelerations At Short Periods - $S_s = 0.259g$ - $F_a = 1.592$
Mapped MCEr Response Accelerations At 1-Sec. Period - $S_1 = 0.097g$ - $F_v = 2.4$
Site Class - D ASUMED
Design Spectral Response Acceleration At Short Periods - $S_{ps} = 0.275g$
Design Spectral Response Acceleration At 1-Sec. Period - $S_{p1} = 0.155g$
SEISMIC DESIGN CATEGORY - B
- BASIC SEISMIC - FORCE - RESISTING SYSTEM - INVERTED PENDULUM SYSTEM CANTILEVERED COLUMN SYSTEM
Response Modification Coefficient - $R = 2$
System Overstrength Factor - $\Omega_o = 2$
Deflection Amplification Factor - $C_d = 2$
- SEISMIC RESPONSE COEFFICIENT - $C_s = 0.138$
SEISMIC BASE SHEAR - $V = 0.9$ KIPS / COL
ANALYSIS - EQUIVALENT LATERAL FORCE PROCEDURE
8) ASTM F1554 GR. 55 ($F_y = 55$ KSI) HEADED ANCHOR RODS & WOOD TEMPLATES SHALL BE FURNISHED BY MCGEE CORP.
- 9) 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 THAN BUT NOT LESS THAN 12" BELOW THE PREVIOUSLY DETERMINED LOWEST FINISHED GRADE ELEVATION.
- 10) 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.
- 11) 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 FOUNDATION DETAIL IS NOT SHOWN MCGEE CORPORATION AND THEIR ENGINEERS TAKE NO RESPONSIBILITY FOR FOUNDATION DESIGN.
- 12) ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH LATEST AWS SPECIFICATIONS, USING E70XX ELECTRODES. ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
- 13) CANOPY USE GROUP "M" / CONSTRUCTION TYPE II-B

SITE CONDITIONS / REQUIREMENTS

- PROVIDE A DRIVE ACCESSIBLE AREA TO WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA IN ORDER TO UNLOAD MATERIALS AND PERFORM WORK.
- 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.
- 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.
- 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.
- POURED CONCRETE PAVING UNDER THE CANOPY TO BE EXCLUSIVELY FOR WORK SPACE AND STORAGE OF MATERIALS.
- REMOVE ALL OVERHEAD OBSTRUCTIONS.
- 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.
- INSTALL ALL ANCHOR BOLTS W/ NUTS. SET AT PROPER ELEVATIONS WITH NO MORE THAN 1/4" TOLERANCE.
- PROVIDE TEMPORARY POWER SOURCE (110 VOLTS) WITHIN 100 FEET OF THE STRUCTURE FOR INSTALLERS USE.
- OBTAIN ALL REQUIRED PERMITS FROM LOCAL AUTHORITIES AND ARRANGE ALL LOCAL INSPECTIONS.
- 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.

COLUMN NO.	FINISH GRADE	BOTTOM OF BASEPLATE
C-1	F.G. = 0"	B.B.P. =
C-2	F.G. = 0"	B.B.P. =
C-3	F.G. = 0"	B.B.P. =
C-4	F.G. = 0"	B.B.P. =
C-5	F.G. = 0"	B.B.P. =
C-6	F.G. = 0"	B.B.P. =
C-7	F.G. = 0"	B.B.P. =
C-8	F.G. = 0"	B.B.P. =
C-9	F.G. = 0"	B.B.P. =
C-10	F.G. = 0"	B.B.P. =

CAD FILE NO./PLOT SCALE
1/8"=1'-0"
63611

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

DR. JOB NO. 63611
FINAL JOB NO. 63611
DRAWING NO. P063611

SHEETZ INC
NEW MARKET BLVD & CHESTNUT DR
BOONE, NC 28607 (WATAGUA)

SCALE: 1/8"=1'-0"
DATE: 8/9/23
IN ACCORDANCE WITH REV. LETTER:
CHKD BY: JWJ
CHD BY:

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TRUSS CANOPY 32'-0" x 126'-11"
FOUNDATION PLAN

SHEET NO. 1 OF 3

LAWRENCE R. PILON / PROFESSIONAL ENGINEER
51 MAPLEVIEW DRIVE/PENNELVILLE, NY 13132
(315) 668-0039

PERMIT SET 8/10/23

Professional Engineer Seal for Lawrence R. Pilon, No. 022186, State of North Carolina.