BUILDING PLANS
FOOD LION DISTRIBUTION EMPLOYEE SHELTER

301 HIGHWAY
DUNN NORTH CAROLINA

PREPARED FOR

Mark Davis
% RLT CONSTRUCTION
TASHA LANE
FUQUAY VARINA, NC
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ENGINEER

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805 COKESBURY ROAD
FUQUAY VARINA, NC
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SHEET INDEX

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
Reviewed for Code Compliance
08/19/2024
Harnett COUNTY NORTH CAROLINA

Reviewed for Fire Code Compliance
Harnett COUNTY NORTH CAROLINA
Leslie Jackson
08/23/2024 1:50:39 PM

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: THE DIRT BAG BREWERY GRILL
Address: CORPORATION DRIVE Zip Code 28312
Proposed Use: BREWERY
Owner/Authorized Agent: GREG BAGLEY Phone # (919) 609 - 0300 E-Mail GDB.GREG@GMAIL.COM
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City _____ ☒ County _____ ☐ State
FAYETTEVILLE, NORTH CAROLINA

LEAD DESIGN PROFESSIONAL: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				( )	
Civil	C. Gregory Bagley, Engineer	Greg Bagley	12276	(919) 609-0300	GDB.GREG@GMAIL.COM
Electrical	C. Gregory Bagley, Engineer	Greg Bagley	12276	(919) 609-0300	GDB.GREG@GMAIL.COM
Fire Alarm				( )	
Plumbing	C. Gregory Bagley, Engineer	Greg Bagley	12276	(919) 609-0300	GDB.GREG@GMAIL.COM
Mechanical	C. Gregory Bagley, Engineer	Greg Bagley	12276	(919) 609-0300	GDB.GREG@GMAIL.COM
Sprinkler-Standpipe				( )	
Structural	C. Gregory Bagley, Engineer	Greg Bagley	12276	(919) 609-0300	GDB.GREG@GMAIL.COM
Retaining Walls >5' High				( )	
Other				( )	

2012 EDITION OF NC CODE FOR: ☒ New Construction ☐ Addition ☐ Upfit
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair ☐ Renovation
CONSTRUCTED: (date) _____ **ORIGINAL USE(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT USE(S)** (Ch. 3): VACANT
PROPOSED USE(S) (Ch. 3): EMPLOYEE SHELTER

BASIC BUILDING DATA
Construction Type: (check all that apply) ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☒ V-A ☒ V-B
Sprinklers: ☐ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☐ Yes (Primary) **Flood Hazard Area:** ☐ No ☐ Yes
Building Height: (feet) _____
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		500	500
Basement			
TOTAL			500

ALLOWABLE AREA

Occupancy:
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
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 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancies:
Assembly ☐ A-1 ☒ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
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 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Table 508.2.5):
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machine room
☐ Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
☐ Rooms containing fire pumps
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427
Special Provisions: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9
Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____
☐ Incidental Use Separation (508.2.5)
This separation is not exempt as a Non-Separated Use (see exceptions).

This separation is not exempt as a Non-Separated Use (see exceptions).
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ 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.

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

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

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503[5] AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]
1	SHELTER	500	6000	4500	0		10500

[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 = 280 (F)
b. Total Building Perimeter = 280 (P)
c. Ratio (F/P) = 1 (F/P)
d. W = Minimum width of public way = 40 (W)
e. Percent of frontage increase $I_f = 100\,[\,F/P - 0.25\,] \times W/30 = 75$ (%)
[2] The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I_s = 200 percent
b. Single story building I_s = 300 percent
[3] Unlimited area applicable under conditions of Section 507.
[4] Maximum Building Area = total number of stories in the building x E (506.4).
[5] The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT
8160 8160 5160

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type V–B		Type V–B	
Building Height in Feet	12'	Feet = H + 20' = 32'		
Building Height in Stories	1	Stories + 1 = 2		

FIRE PROTECTION REQUIREMENTS NR = Not Required

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DET.# AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	10	0		0002	NR		
Bearing Walls		0		0002	NR		
Exterior		0		0002	NR		
North		0		0002	NR		
East		0		0002	NR		
West		0		0002	NR		
South		0		0002	NR		
Interior							
Nonbearing Walls and Partitions		0		0002	NR		
Exterior walls		0		0002	NR		
North		0		0002	NR		
East		0		0002	NR		
West		0		0002	NR		
South		0		0002	NR		
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0		0002	NR		
Roof Construction Including supporting beams and joists		0		0002	NR		
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation		0		0	NR		
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ No ☐ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: CODE SHEET

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations
☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Existing structures within 30' of the proposed building
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
☒ Occupant loads for each area
☐ Exit access travel distances (1016)
☒ Common path of travel distances (1014.3 & 1028.8)
☐ Dead end lengths (1018.4)
☐ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
☒ 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 with panic hardware (1008.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
☐ Location of doors with electromagnetic egress locks (1008.1.9.8)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1029)
☐ The square footage of each fire area (902)
☐ The square footage of each smoke compartment (407.4)
☐ 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
0							

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES	# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
Main Parking	8	8	1		1	1
TOTAL						

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Wind (I_W) .87; Snow (I_S) .8; Seismic (I_E) 1
Live Loads: Roof 20 psf; Mezzanine _____ psf; Floor 125 psf
Ground Snow Load: 10 psf
Wind Load: Basic Wind Speed 120 mph (ASCE-7); Exposure Category C; Wind Base Shears (for MWFRS) Vx = −8.77 Vy = −7.38

SEISMIC DESIGN CATEGORY: ☒ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☒ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration S_S 2.7 %g S_1 3.7 %g
Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☐ D ☒ E ☐ F
Data Source: ☐ 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
Seismic base shear: V_X = _____ V_Y = _____
Analysis Procedure: ☒ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED: ☐ Yes ☒ No

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXISTING								
	NEW	1	UNISEX	0	1	UNISEX		0	
	REQUIRED	1			1				

SPECIAL APPROVALS

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

☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Existing structures within 30' of the proposed building
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
☒ Occupant loads for each area
☐ Exit access travel distances (1016)
☒ Common path of travel distances (1014.3 & 1028.8)
☐ Dead end lengths (1018.4)
☐ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
☒ Actual occupant load for each exit door

OCCUPANCY LOADS

A-2 GATHERING AREA	UNCONCENTRATED TABLES AND CHAIRS	15 NET	500/15 = 33 OCC.

CODE SHEET

ENERGY SUMMARY

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.

Climate Zone: ☒ 3 ☐ 4 ☐ 5

Method of Compliance:
☒ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

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

Exterior Walls (each assembly)
Description of assembly: 4" CONCRETE WALLS ON TWO SIDES
U-Value of total assembly: N/A
R-Value of insulation: R-15
Openings (windows or doors with glazing)
U-Value of assembly: N/A
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: N/A

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

Floors over unconditioned space (each assembly)
Description of assembly: CONCRETE 3000 LB
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 20 F
summer dry bulb: 95 F

Interior design conditions
winter dry bulb: 70 F
summer dry bulb: 74 F
relative humidity: 63%

Building heating load: 24000

Building cooling load: 24000

Mechanical Spacing Conditioning System
Unitary
description of unit: DUCTLESS SYSTEM
heating efficiency: 14 SEER
cooling efficiency: 14 SEER
size category of unit: 24000
Boiler 24000
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: 63%

ELECTRICAL SUMMARY

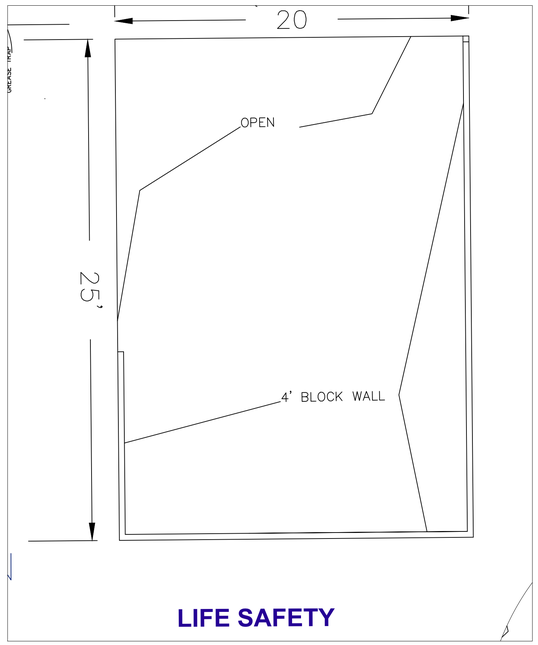
ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)
T-8 lamp type required in fixture
4 number of lamps in fixture
F96T8 ballast type used in the fixture
1 number of ballasts in fixture
40–60 total wattage per fixture
.48 vs. .40 total interior wattage specified vs. allowed (whole building or space by space)
250 total exterior wattage specified vs. allowed

Additional Prescriptive Compliance
☐ 506.2.1 More Efficient Mechanical Equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☒ 506.2.6 Automatic Daylighting Control Systems

Fire SEPERATION IS 1 HR AS SHOWN ON TABLE 508.4 OF CODE BETWEEN F-2 AND A-2



LIFE SAFETY

REVISIONS	BY

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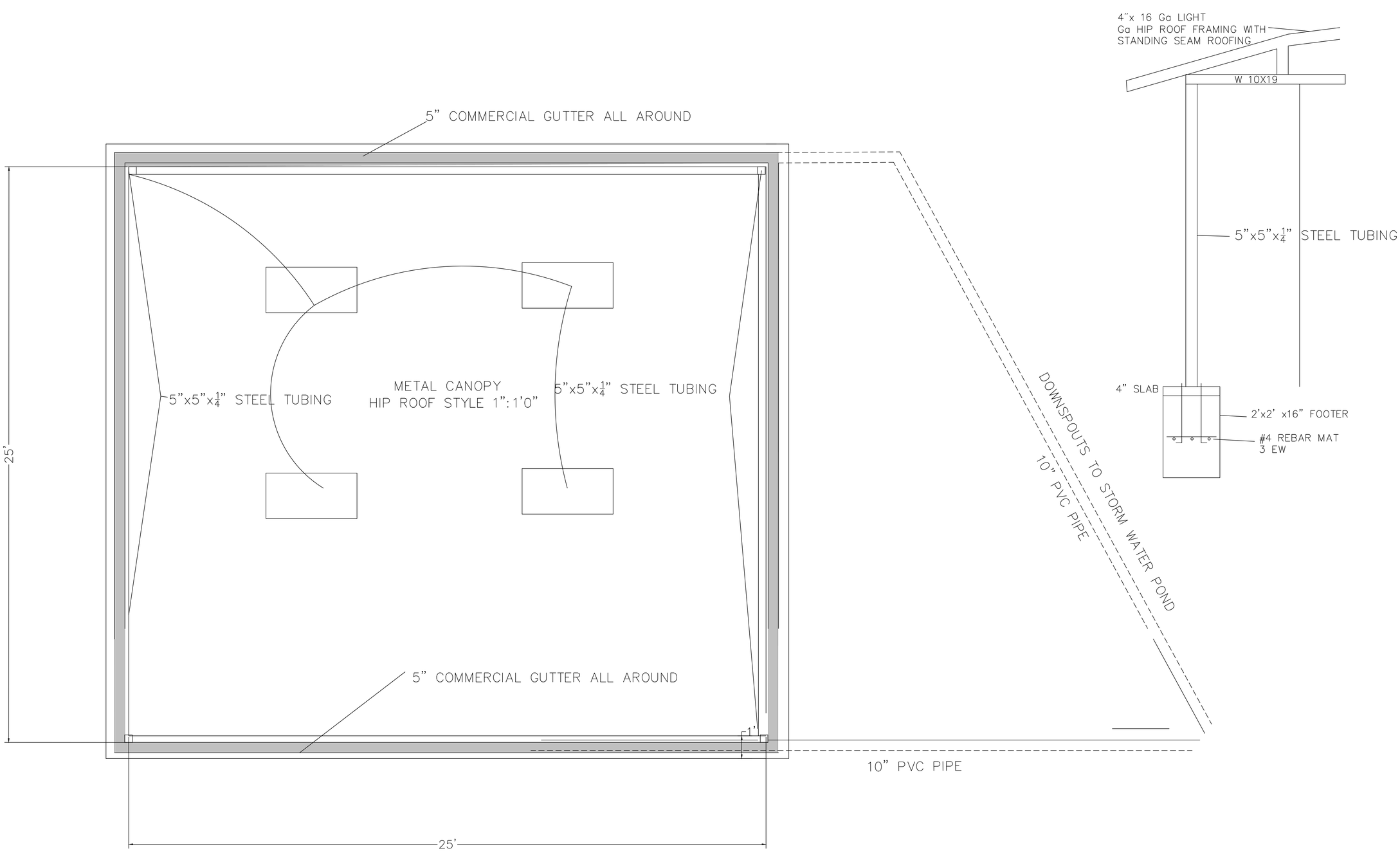
Email: gdb.greg@gmail.com

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12276 5-19-22 C. GREGORY BAGLEY

ELEVATIONS

FOOD LION DISTRIBUTION CENTER
DEVELOPED FOR MARK DAVIS
HARNETT COUNTY N.C.
DUNN

DATE 2-7-2018
SCALE 3/8"=1'-0"
DESIGNED BY CGB
DRAWN BY
SHEET 0001 FP



FLOOR PLAN

REVISIONS	BY

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Email: gdb.greg@gmail.com

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12276 5-15-22 GREGORY D. BAGLEY

FLOOR PLAN

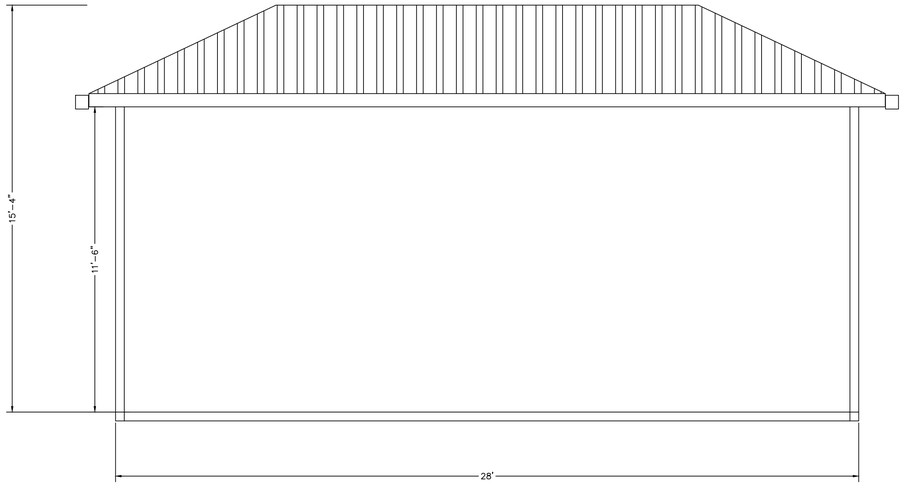
FOOD LION DISTRIBUTION CENTER

DEVELOPED FOR: MARK DAVIS

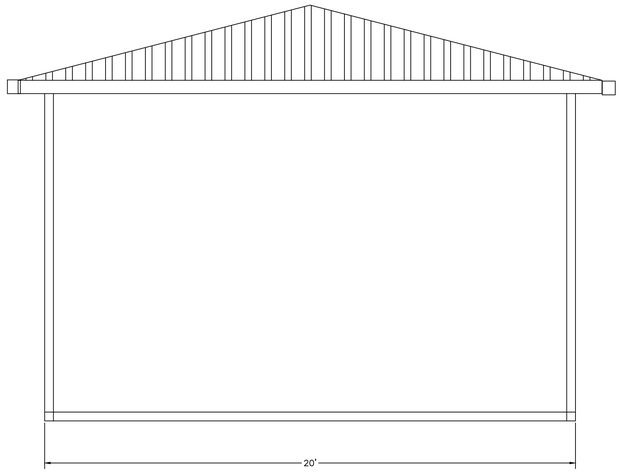
HARNETT COUNTY N.C.

DUNN

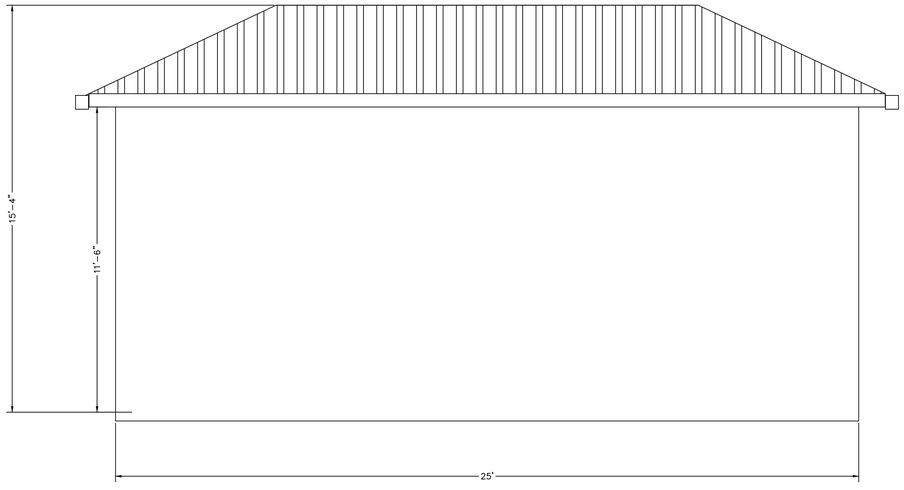
DATE: 2-7-2018
SCALE: 1/2"=1'-0"
DESIGNED BY: CGB
DRAWN BY:
SHEET: 003 FP1



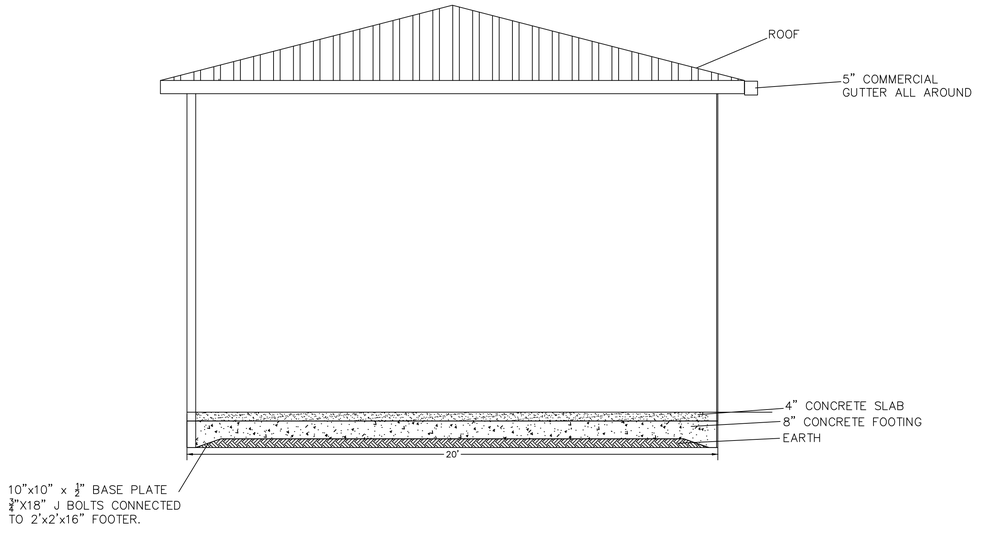
FRONT



LEFT SIDE



REAR



RGHT SIDE

FILL AROUND 5" COLUMN A 2'x2' FOOTER

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SEAL 12276 5-15-22

ELEVATIONS

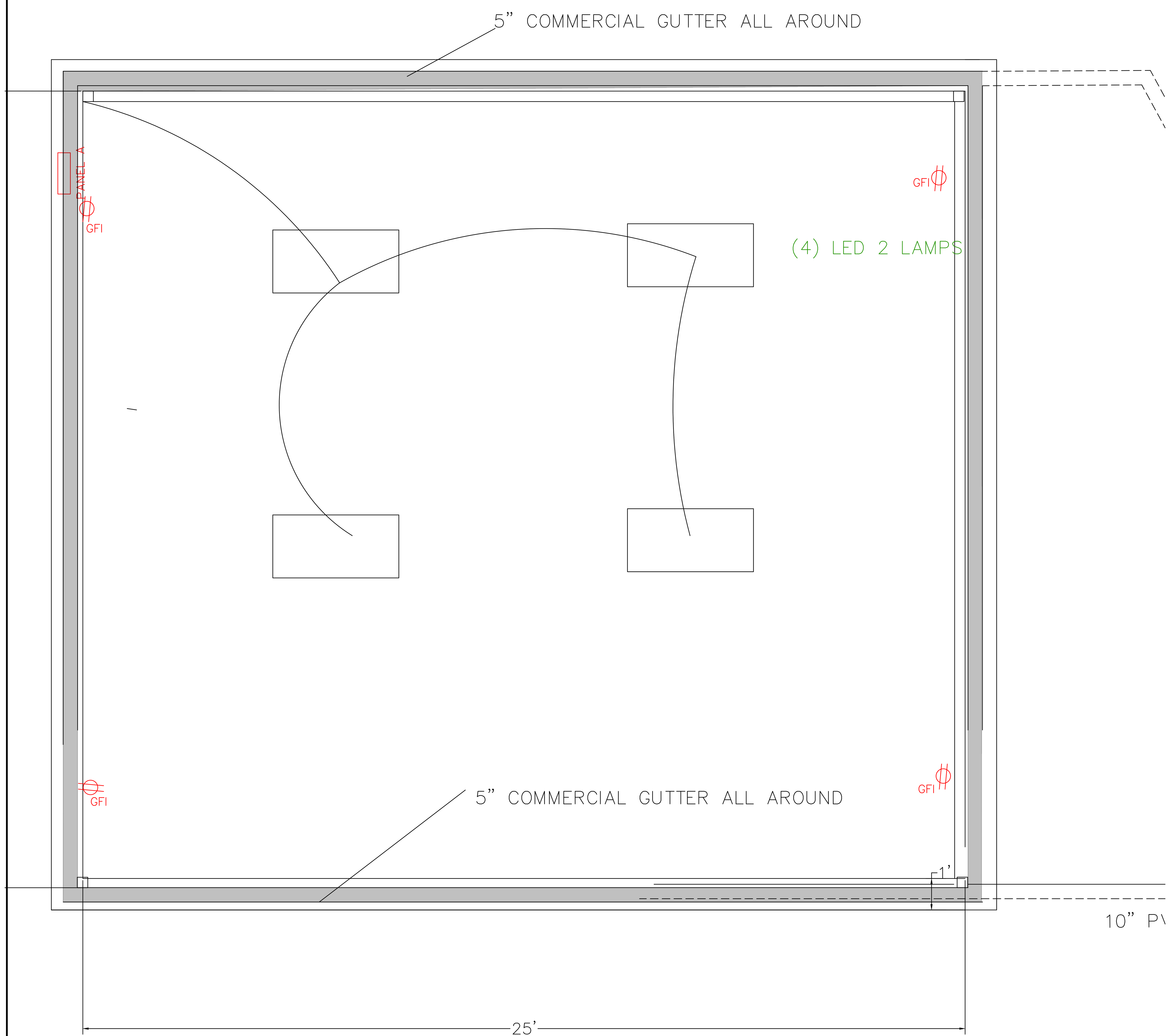
FOOD LION DISTRIBUTION CENTER

DEVELOPED FOR MARK DAVIS

HARNETT COUNTY N.C.

DUNN

DATE 2-7-2018
SCALE 3/8"=1'-0"
DESIGNED BY CGB
DRAWN BY
SHEET 004 ELEV 1



ELECTRICAL

ELECTRICAL

100 AMP SERVICE PANEL A
VOLTAGE 208/120V 3 PHASE : 4 WIRE

SIZE	DEVICE AMPS TRIP	DEVICE POLES	BRANCH CIRCUIT DESCRIPTION	CKT	PH A	PH B	PH C	PH A	PH B	PH C	CKT	BRANCH CIRCUIT DESCRIPTION	DEVICE POLES	DEVICE AMPS TRIP	SIZE
12	20	1	RECEPT	1		10		10			2	RECPT.	1	20	12
12	20	1	RECEPT	3			10	12			4	RECPT. BATH GFI	1	20	12
12	20	1	LIGHTING	5		10				10	6		1	20	12
12	20	2	LIGHTING	7			15		15		8		2	20	12
12	20	2		9	15					15	10		2	40	8
12	20	1	LIGHTING BATH	11		7		7			12	BATH FAN	1	20	12
12	20	1	EXHAUST FAN/VENT	13	8			15			14	WATER HTR.	2	30	10
12	20	1		15	7					7	16		1	20	12
8	40	1	HVAC	17			8		35		18	HVAC	2	50	8
8	40	1	COOLER		35					35		FREEZER	2	40	8
			TOTAL		30	27	33	44	50	32					

TOTAL CONNECTED AMPS A –74 B–71 C– 65

NOTE: ELECTRICAL CONTRACTOR TO PROVIDE AIC RATING PER 2014 NEC

LOAD CALCS.

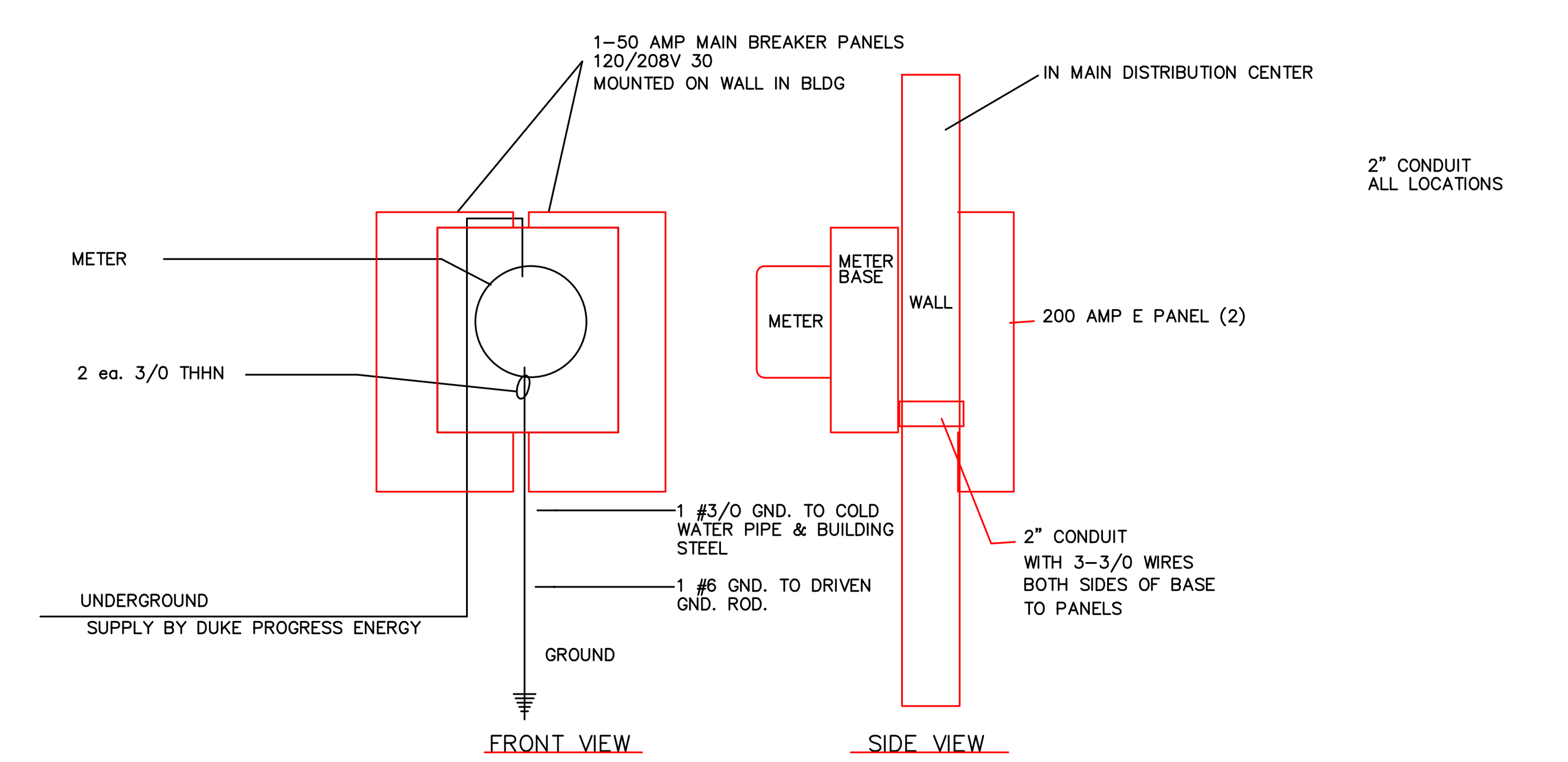
LOAD	CONN (KVA)	DEMAND FACTOR	DEMAND LOAD
LIGHTING	4.1	125% ****	5.125
RECEPT.	8.4	1ST 10 KV – 100% REM –50%	8.4
HVAC	38.5	100%	38.5
SIGN	1.2	125% ****	1.5
WH	25	125%	31.25
TOTAL	78.1	TOTAL	84.8

LIGHTING LOAD CALCS.

AREA TABLE 5.5.2	MIN WATTS	SQ FT	MAX ALLOWED	PROVIDED
OFFICE ENCLOSED	1.11	620	668	600
KITCHEN	1.59	1780	2830	2500
EXTERIOR	N/A	N/A	1300	1000

ELECTRICAL NOTES

1. ALL RECEPTACLES TO COMPLY WITH NEC 406.14
2. AVAILABLE FAULT CURRENT AT PANEL A IS 9,623 A



NO NM CABLE ABOVE CEILING– CONDUIT ONLY

ELECTRICAL DIAGRAM

REVISIONS | BY

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12276 5-19-22 GREGORY D. BAGLEY

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