ALL PRO PERFORMANCE SHOP
ANGIER, NC

RUSTY LONG
ARCHITECT
EST. 2010

RUSTY LONG
REGISTERED ARCHITECT
SEAL
11939
NORTH CAROLINA
ARCHITECTURE

10/7/2019

ISSUED FOR
CONSTRUCTION

ARCHITECTURAL & ENGINEERING TEAM

ARCHITECT:

RUSTY LONG, AIA
317 GLASGOW RD
CARY, NC 27511
919-602-4180
RUSTY@RUSTYLONG.COM

LICENSE # 11939

PME ENGINEER:

ENTECH ENGINEERING
1071 N BERKELEY BLVD
GOLDSBORO, NC 27534
919-778-9064

LICENSE # C-1132
PLUMBING # 12641
MECHANICAL # 12641
ELECTRICAL # 31466

STRUCTURAL ENGINEER:

BRIAN ROSS
709 W JONES ST
RALEIGH, NC 27603
919-832-5680

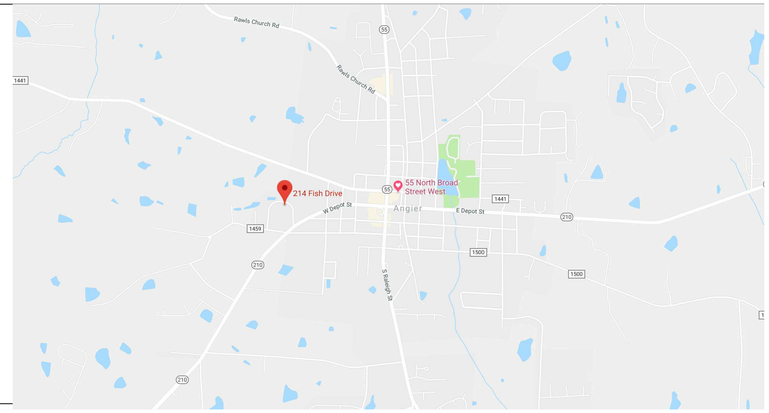
LICENSE # 25539

SITE / CIVIL ENGINEER:

CURRY ENGINEERING
205 S. FUQUAY AVE
FUQUAY-VARINA, NC 27526
919-552-0649

LICENSE # P-0799

LOCATION



DRAWING INDEX

BUILDING CODES & ACCESSIBILITY

THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2018
NORTH CAROLINA BUILDING CODE, INCLUDING:

NORTH CAROLINA BUILDING CODE (IBC) - 2018EDITION
NORTH CAROLINA PLUMBING CODE (IPC) - 2018 EDITION
NORTH CAROLINA FIRE CODE (IFC) - 2018 EDITION
NORTH CAROLINA MECHANICAL CODE (IPC) - 2018 EDITION
NORTH CAROLINA ENERGY CONSERVATION CODE (IECC) - 2018
(ASHRAE / IESHA 90.1 - 2007 MAY BE SUBSTITUTED)

CLIENT INFORMATION

ALL PRO PERFORMANCE SHOP

ARELY LOPEZ
919-608-5938

ALL PRO PERFORMANCE
FISH DRIVE
ANGIER, NC

RUSTY LONG, ARCHITECT
317 GLASGOW RD
CARY, NC 27511
(919) 602-4180

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CONSTRUCTION

COVER PAGE

A000

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: All Pro Performance Auto Shop
Address: 214 Fish Drive – Angier, NC Zip Code 27501
Proposed Use: Auto Repair Shop
Owner/Authorized Agent: Arely Lopez Phone # (919) 308 - 5938 E-Mail 9adlopez@ncdot.gov
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City Angier ☒ County Harnett ☐ State

LEAD DESIGN PROFESSIONAL: Rusty Long, Architect

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Rusty Long, Architect	Rusty Long	11939	(919)602-4180	rusty@rustylong.com
Civil	Curry Engineering	Don Curry	P-0799	(910)552-0849	don@curryeng.com
Electrical	Entech Engineering	James Ham	31466	(919)778-9064	rbrown@entech-pme.com
Fire Alarm					
Plumbing	Entech Engineering	Ben Rollins	12641	(919)778-9064	rbrown@entech-pme.com
Mechanical	Entech Engineering	James Ham	12641	(919)778-9064	rbrown@entech-pme.com
Sprinkler-Standpipe					
Structural	Ross Linden Engineers	Brian Ross	25539	(919)832 5680	brian@rosslinden.com

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): _____
PROPOSED USE(S) (Ch. 3): S-1 – Auto Repair w/ special use permit

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) 20
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1st Floor		4,022	4,022
TOTAL		4,022	4,022

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: 2 Hr. Exception: _____
☐ Incidental Use Separation (508.2.5)
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.

Actual Area of Occupancy A / *Allowable Area of Occupancy A* + *Actual Area of Occupancy B* / *Allowable Area of Occupancy B* ≤ 1

(S-1) 3,790 sf / *9,000* + *(B) 1,160 sf* / *9,000* ... = ≤ 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	S-1&B	4,022	9,000	0	0	0	4,022

[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 $I_f = 100 [F/P - 0.25] \times W/30$ = _____ (%)
[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

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type V-B		Type V-B	
Building Height in Feet	40	Feet = H + 20' = N/A	20	
Building Height in Stories	1	Stories + 1 = N/A	1	

FIRE PROTECTION REQUIREMENTS

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

* 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 #: 1/A002

☒ 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 REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
	29	29	2	0	2	2
TOTAL						

* See Angier Approved Site Plan for Additional Information

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (I_W) 1.0; Snow (I_S) 1.0; Seismic (I_E) 1.0

Live Loads: Roof 20 psf; Mezzanine – psf; Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Basic Wind Speed 100 mph (ASCE-7)
Exposure Category B
Wind Base Shears (for MWFRS) Vx = 18.8k Vy = 41.9k

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 29.9 %g S_1 8.6 %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 = 43.0k V_Y = 50.2k
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☒ Vx Wind ☒ Vy

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2,000 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	1	0	1	1	0	1	1
	REQUIRED	1	1	0	1	1	0	1	1

SPECIAL APPROVALS

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

_____

_____

_____

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 – Per C101.2 Interpretation, Exempt Storage (U-Values Attached for Reference)

Roof/ceiling Assembly (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -
Skylights in each assembly: 0
U-Value of skylight: _____
total square footage of skylights in each assembly: 0

Exterior Walls (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -
Openings (windows or doors with glazing) – -
U-Value of assembly: 0.45
Solar heat gain coefficient: 0.25
projection factor: 0
Door R-Values: 0.77

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) **– N/A**
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: Slab-on-Grade
U-Value of total assembly: F-0.520
R-Value of insulation: R-15 for 24" min.
Horizontal/vertical requirement: R-15 for 24" min. horizontal, R-15 vertical to footing
slab heated: No

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 16 °F
summer dry bulb: 97 °F

Interior design conditions
winter dry bulb: 70 °F
summer dry bulb: 75 °F
relative humidity: 50%

Building heating load: 12,700 BTU/hr

Building cooling load: 2.4 Tons

Mechanical Spacing Conditioning System
Unitary
description of unit: Rooftop Heat Pump
heating efficiency: 3 COP
cooling efficiency: 13 SHGR
size category of unit: 3 Tons
Boiler
Size category. If oversized, state reason.: N/A
Chiller
Size category. If oversized, state reason.: N/A

List equipment efficiencies: N/A

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type) *** See E101**
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
Specified 3,352 watts / Allowed 5,033 watts
total exterior wattage specified vs. allowed
All exterior light fixtures provided with minimum source efficiency of 45 lumens/watt

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

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ARCHITECT
EST. 2010

RUSTY LONG REGISTERED ARCHITECT SEAL 11939 NORTH CAROLINA ARCHITECT

10/7/2019

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FISH DRIVE
ANGIER, NC

RUSTY LONG, ARCHITECT
317 GLASGOW RD
CARY, NC 27511
(919) 602-4180

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CODE SUMMARY

A001

NC Department of Insurance
Office of the State Fire Marshal - Engineering Division
1202 Mail Service Center, Raleigh, NC 27699-1202
919-647-0000

Senate Bill 131 Impact to the Application of the 2018 NC Energy Conservation Code

Code: 2018 NC Energy Conservation Code **Date:** October 12, 2018
Section: C101.2
Code: 2018 NC Building Code
Section: 1301.1.1
Code: 2018 NC Existing Building Code
Section: 101.12

Question 1:
Does Senate Bill 131 (Session Law 2017-10) impact application of the energy efficiency requirements of the 2018 NC Energy Conservation Code, the 2018 NC Building Code, and 2018 NC Existing Building Code?

Answer:
Yes, Senate Bill 131 does have impact to the application of the energy efficiency provisions of the 2018 NC Energy Conservation Code (2018 NCECC), the 2018 NC Building Code, and the 2018 NC Existing Building Code. Amendments approved by the Building Code Council indicate that where the primary occupancy of a building or structure is Group F, Group S, or Group U, the entire building area shall be exempt from all energy efficiency requirements pursuant to the 2018 NC Energy Conservation Code, the 2018 NC Building Code, and the 2018 NC Existing Building Code.

The Group F, Group S, or Group U "primary occupancy of a building" is defined as the summation of the floor areas of a building classified with these occupancies being greater than the summation of the floor areas associated with other occupancy classifications that are support functions of the primary occupancy.

The legislation indicates that the exemption shall apply to the entire floor area of any structure for which the primary use or occupancy is Factory Group F, Storage Group S, or Utility and Miscellaneous Group U, which exempts all other secondary occupancies of the building from energy efficiency requirements, as applicable. Building areas including office/administration areas are exempt if the primary use of the building is any of the occupancies listed above.

The approved code provisions apply to new work for both new and existing buildings. With respect to existing buildings, the code provisions apply to new work for additions, alterations, repairs, and change of use.

New outdoor lighting not physically attached to the building and included for the building premises such as driveways and parking areas is not exempt from the energy efficiency requirements.

For buildings qualifying for application of the exemptions, any energy conservation provisions included in the design would be voluntary and not required by the energy conservation code, the building code, or the existing building code. The code official shall inspect for compliance with the engineered drawings and specifications. Energy conservation features included in the design would be solely at the discretion of the designer and the owner and such features would be anticipated to be provided based on an acceptable rate of return determined appropriate by the owner applicable to his specific project and business needs and objectives.

With respect to the 2018 NCECC, section C101.2 "Scope" was amended as shown below in underline:
101.2 Scope. This code applies to *commercial buildings* and the buildings' sites and associated systems and equipment.
Exceptions:
1. Energy expended in support of *process energy* applications does not invoke energy conservation code requirements or building thermal envelope requirements unless otherwise required in specific sections of this code.
2. Per N.C.G.S 143-138 (b18), no energy conservation code provisions shall apply to any structure for which the primary occupancy classification is Group F, S, or U pursuant to Chapter 3 of the 2012 North Carolina Building Code. This exclusion shall apply to the entire building area.

With respect to the 2018 NC Building Code, section 1301.1.1 was amended as shown below in underline:
1301.1.1 Criteria. Buildings shall be designed and constructed in accordance with the *International Energy Conservation Code.*
Exception: Per N.C.G.S 143-138 (b18), no energy conservation code provisions shall apply to any structure for which the primary occupancy classification is Group F, S, or U. This exclusion shall apply to the entire building area.

With respect to the 2018 NC Existing Building Code, section 101.12 was amended as shown below in underline:
101.12 Energy conservation.
In accordance with N.C.G.S 143-138 (b18), no energy conservation code provisions shall apply to any structure for which the primary occupancy classification is Group F, S or U. This exclusion shall apply to the entire building area.

Identification of the legislation requiring rule change to the NC State Building Code:
The NC General Assembly ratified Senate Bill 131 and the legislation was signed into law by Governor Roy Cooper. The legislation includes amendments to certain general statutes identified within the provisions of the bill. The legislation includes an amendment to NC General Statute 143-138 adding a new section (b18) which provides a requirement that the NC Building Code Council amend the 2012 NC Building Code and the 2012 NC Energy Conservation Code and any subsequent codes to exempt certain buildings and structures of certain building occupancy classifications from all energy efficiency requirements.

The language from the bill applicable to the energy efficiency provisions is extracted from the legislation and is shown below:

GENERAL ASSEMBLY OF NORTH CAROLINA
SESSION 2017
SESSION LAW 2017-10
SENATE BILL 131

AN ACT TO PROVIDE FURTHER REGULATORY RELIEF TO THE CITIZENS OF NORTH CAROLINA

The ratified and signed legislation reads in part with respect to the energy conservation code requirements:
The General Assembly of North Carolina enacts:
PART I. BUSINESS REGULATION
……
EXEMPT CERTAIN BUILDING CODE CLASSIFICATONS FROM ENERGY EFFICIENCY STANDARDS
SECTION 1.4. G.S. 143-138 is amended by adding a new subsection to read:
"(b18) Exclusion From Energy Efficiency Code Requirements For Certain Use and Occupancy Classifications. - The Council shall provide for an exemption from any requirements in the energy efficiency standards pursuant to Chapter 13 of the 2012 NC Building Code and the 2012 Energy Conservation Code, and any subsequent amendments to the Building Code and the Energy Conservation Code, for the following use and occupancy classifications pursuant to Chapter 3 of the 2012 North Carolina Building Code: Section 306, Factory Group F; Section 311, Storage Group S; and Section 312, Utility and Miscellaneous Group U. This exclusion shall apply to the entire floor area of any structure for which the primary use or occupancy is listed herein."

And the bill contains additional legislation not included above since they have no additional bearing on the application of the requirements of the energy conservation code.

Additional Discussion:

Senate Bill 131 identifies that the NC Building Code Council shall provide for an exemption from any energy efficiency requirements for occupancy classifications Group F, S, and U. The legislation identifies that the exemption shall apply to a building or structure for which the primary use or occupancy is Group F, S, or U and that the exclusion shall apply to the entire building area.

In response to the requirement from Senate Bill 131 for the NC Building Code Council to enact rule changes, the NC Building Code Council prepared and approved amendments to the 2012 NC Energy Conservation Code, the 2012 NC Building Code, the 2015 NC Existing Building Code, the 2018 NC Energy Conservation Code, the 2018 NC Building Code, and the 2018 NC Existing Building Code.

Note that when a building includes occupancy classification Group F, S or U and Group F, S or U is not the primary occupancy of the building, the energy efficiency provisions are not exempted by the rules noted above. However, other exclusions may apply with application of the process energy exemption interpretation and application of the conditioned space criteria interpretation located on the NCDOI web site for the 2018 NC Energy Conservation Code.

Keywords:

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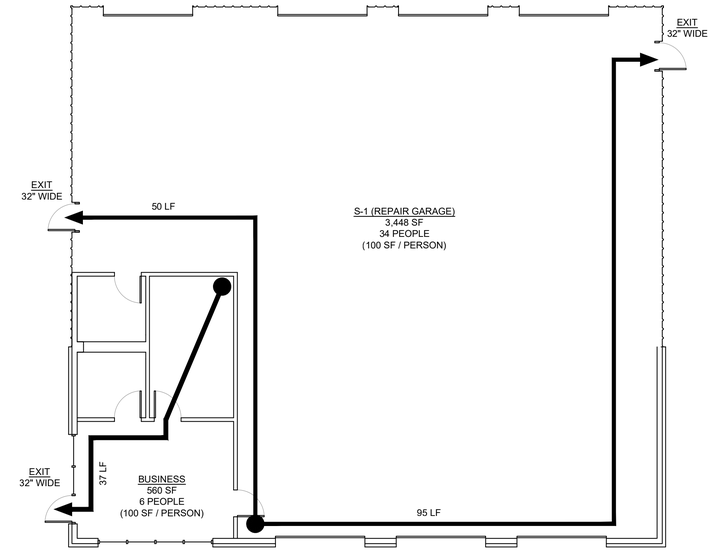
NC DOI
ECC EXCEPTION

A002



1. LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

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11939
NORTH CAROLINA
ARCHITECTURE

10/7/2019

ISSUED FOR
CONSTRUCTION

ALL PRO PERFORMANCE
FISH DRIVE
ANGIER, NC

RUSTY LONG, ARCHITECT
317 GLASGOW RD
CARY, NC 27511
(919) 602-4180

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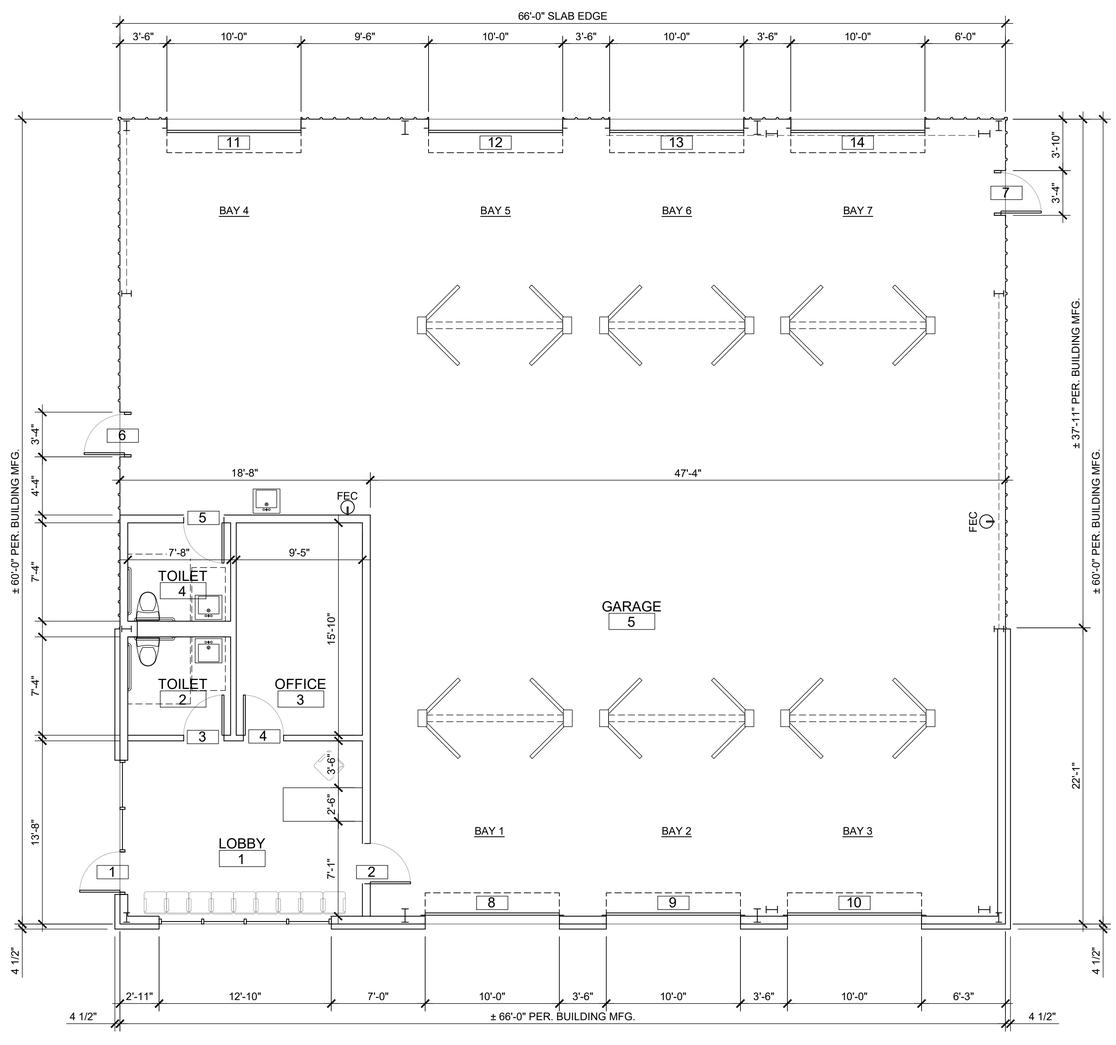
LIFE SAFETY
PLAN

A003



1. FLOOR PLAN
SCALE: 3/16"=1'-0"

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ARCHITECT
EST. 2010

RUSTY LONG
REGISTERED ARCHITECT
SEAL
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NORTH CAROLINA
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FLOOR PLAN

A100

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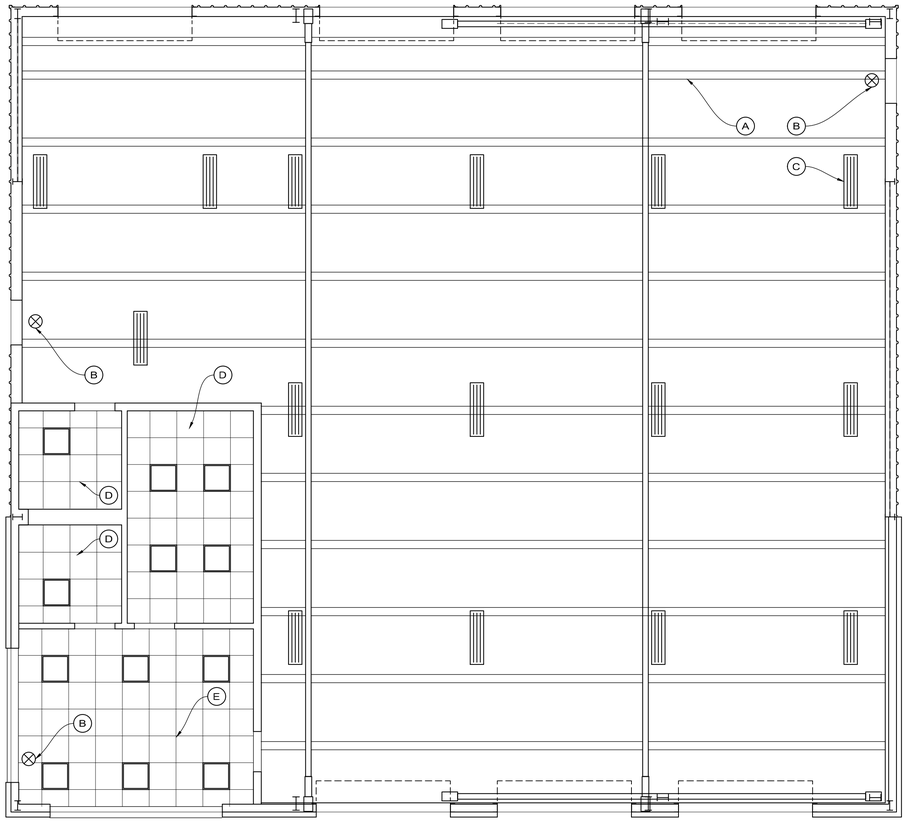

1. REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

REFLECTED CEILING PLAN NOTES NOTES

(A) STEEL STRUCTURE AND PURLINS PER BUILDING MANUFACTURER

(B) EXIT SIGN PER ELECTRICAL DRAWINGS

(C) SEE ELECTRICAL PLAN FOR LIGHTING SPECIFICATIONS

(D) 2'X2' ACOUSTIC TILE CEILING AT 9'-0" A.F.F.

(E) 2'X2' ACOUSTIC TILE CEILING AT 12'-0" A.F.F.

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REFLECTED
CLG. PLAN

A101

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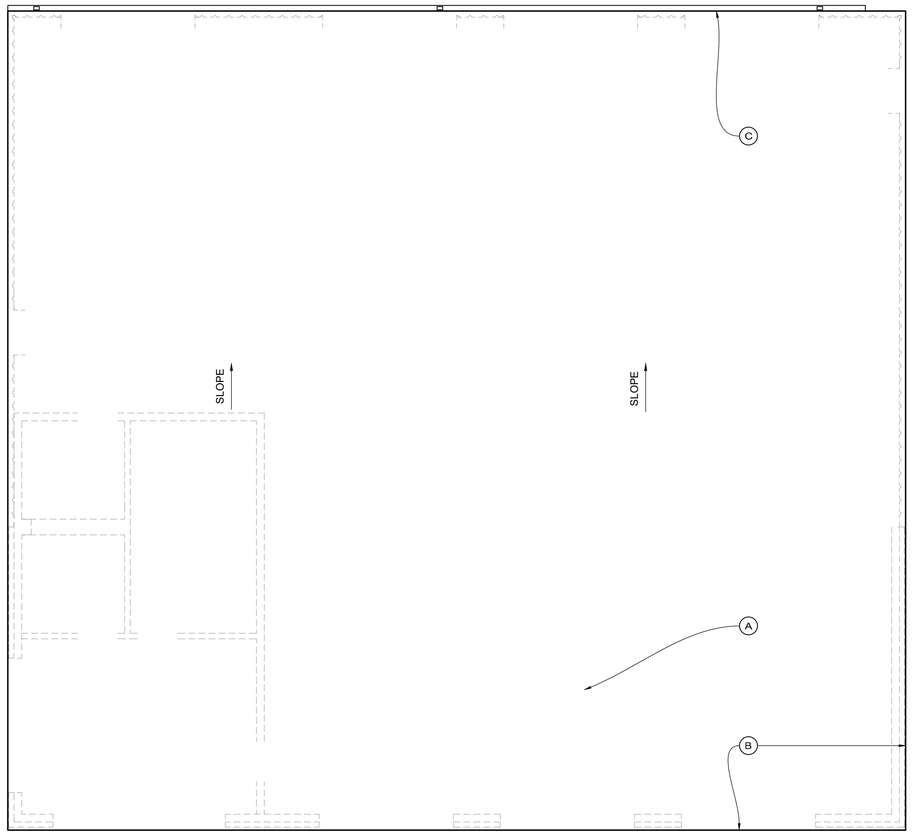

ROOF NOTES

(A) METAL ROOFING PER BUILDING MANUFACTURER

(B) EDGE COPING AND FLASHING AT EDGE WALLS AND RIDGE PER BUILDING MANUFACTURER

(C) INTEGRAL GUTTER PER BUILDING MANUFACTURER

1. ROOF PLAN
SCALE: 3/16"=1'-0"

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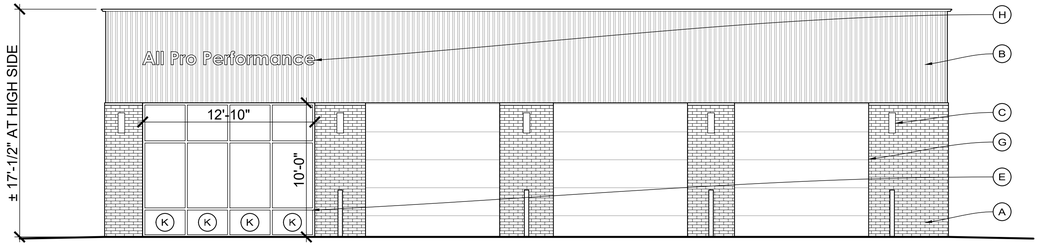
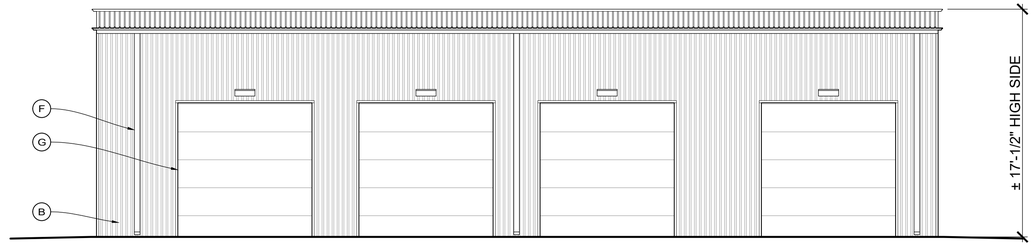
ROOF PLAN

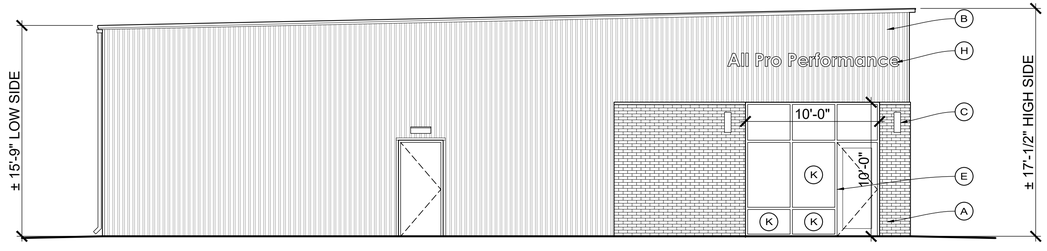
A102



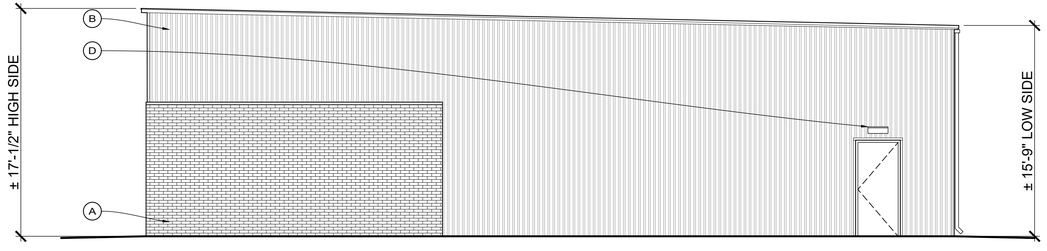
1. PROPOSED FRONT ELEVATION
SCALE: 3/16"=1'-0"



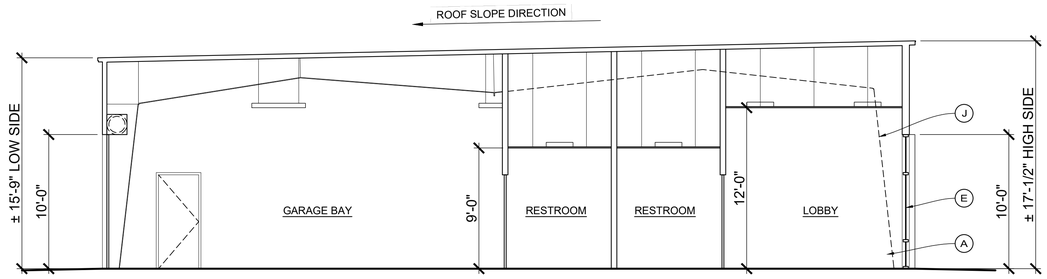
2. PROPOSED REAR ELEVATION
SCALE: 3/16"=1'-0"



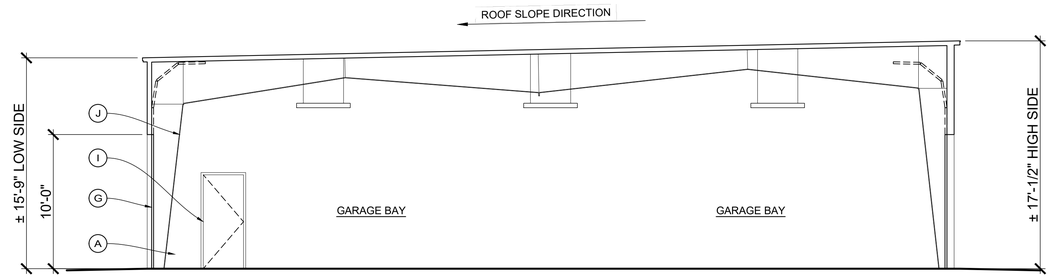
3. PROPOSED LEFT ELEVATION
SCALE: 3/16"=1'-0"



4. PROPOSED RIGHT ELEVATION
SCALE: 3/16"=1'-0"



5. BUILDING SECTION A
SCALE: 3/16"=1'-0"



6. BUILDING SECTION B
SCALE: 3/16"=1'-0"

ELEVATION NOTES

- (A) STANDARD DIMENSION BRICK, RED, FINAL COLOR TO BE SELECTED BY OWNER
- (B) METAL BUILDING PANELS, GREY, FINAL COLOR TO BE SELECTED BY OWNER
- (C) BLACK WALL SCONCE LIGHT FIXTURES, SEE ELECTRICAL PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- (D) BLACK LED WALL PACK ABOVE DOOR, SEE ELECTRICAL PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- (E) 4-1/2" THERMALLY BROKEN ALUMINUM STOREFRONT, COLOR TO BE BLACK
- (F) PREFINISHED ALUMINUM GUTTERS & DOWNSPOUTS, COLOR TO BE BLACK
- (G) OVERHEAD DOORS , COLOR TO BE SELECTED BY OWNER
- (H) SIGNAGE PROVIDED BY OWNER
- (I) METAL EXTERIOR DOOR IN HOLLOW METAL FRAME, PAINTED BLACK
- (J) STRUCTURAL STEEL FRAME BEYOND, SHOWN DASHED WHERE HIDDEN BY INTERIOR WALLS
- (K) TEMPERED GLASS IN LOWER PANES & ADJACENT TO DOOR

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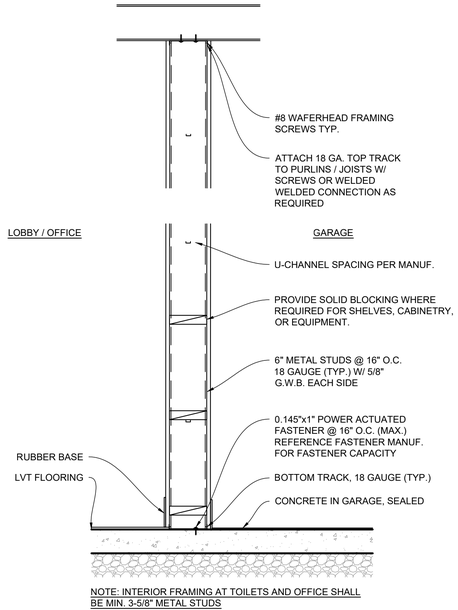
ELEVATIONS
& SECTIONS

A200

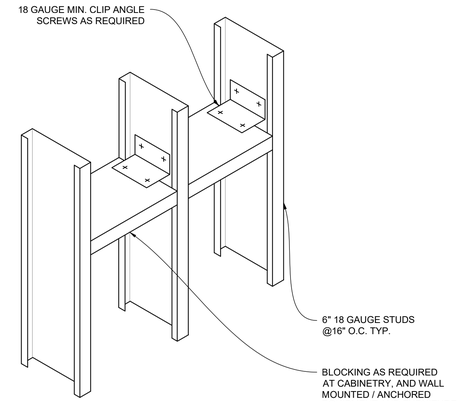
DOOR SCHEDULE							
DOOR NUMBER	WIDTH	HEIGHT	GLAZING	TYPE	FRAME	SWING	NOTES
1	3'-0"	7'-0"	FULL	NARROW STILE ALUMINUM	4-1/2" ALUMINUM STOREFRONT	RH	
2	3'-0"	7'-0"	HALF	METAL	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	RHR	
3	3'-0"	7'-0"	HALF	PAINT GRADE SOLID CORE	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	LHR	
4	3'-0"	7'-0"	HALF	PAINT GRADE SOLID CORE	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	LH	
5	3'-0"	7'-0"	NONE	METAL	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	RH	
6	3'-0"	7'-0"	HALF	METAL	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	RH	
7	3'-0"	7'-0"	HALF	METAL	H.M. 3 PIECE KNOCKDOWN, PRIMED 4-7/8" WALL THICKNESS	LH	
8	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
9	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
10	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
11	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
12	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
13	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	
14	10'-0"	10'-0"	NONE	OVERHEAD	PER MANUF.	-	

FINISH SCHEDULE						
ROOM	NAME	FLOOR	WALL	CEILING	BASE	NOTES
1	LOBBY	LVT	G.W.B. PAINTED	2'X2' ACOUSTIC CEILING TILE	RUBBER BASE	
2	TOILET	LVT	G.W.B. PAINTED	2'X2' ACOUSTIC CEILING TILE	RUBBER BASE	
3	OFFICE	LVT	G.W.B. PAINTED	2'X2' ACOUSTIC CEILING TILE	RUBBER BASE	
4	TOILET	LVT	G.W.B. PAINTED	2'X2' ACOUSTIC CEILING TILE	RUBBER BASE	
5	GARAGE	CONCRETE	G.W.B. PAINTED *	NO CEILING - OPEN TO STRUCTURE	NONE	* AT OFFICE / LOBBY WALL



1. TYPICAL INTERIOR PARTITION

SCALE: 1"=1'-0"



2. TYPICAL SOLID BLOCKING DETAIL

SCALE: N.T.S.

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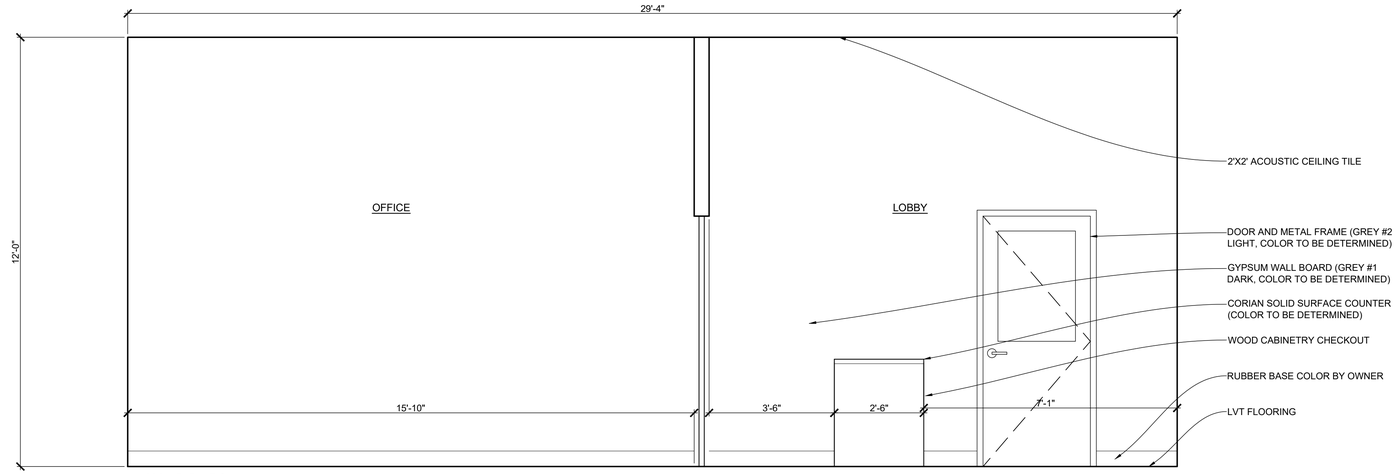
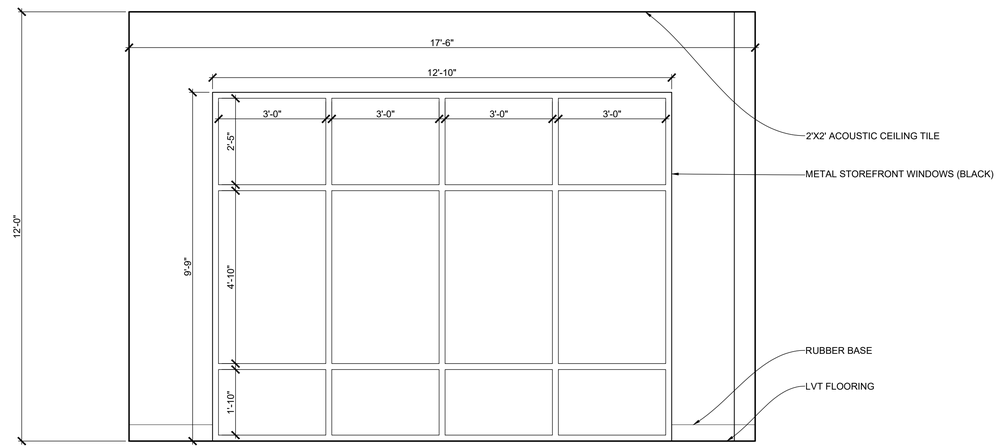
DOOR SCHEDULE & STOREFRONT

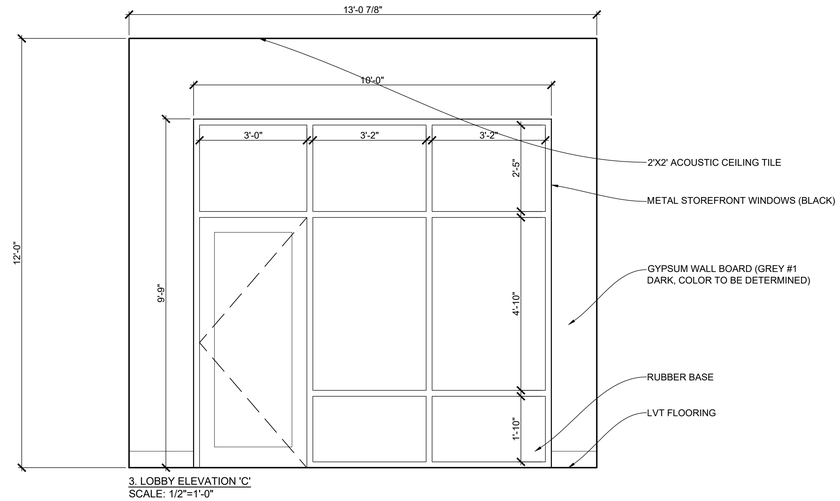
A400



1. LOBBY ELEVATION 'A'
SCALE: 1/2"=1'-0"



2. LOBBY ELEVATION 'B'
SCALE: 1/2"=1'-0"



3. LOBBY ELEVATION 'C'
SCALE: 1/2"=1'-0"

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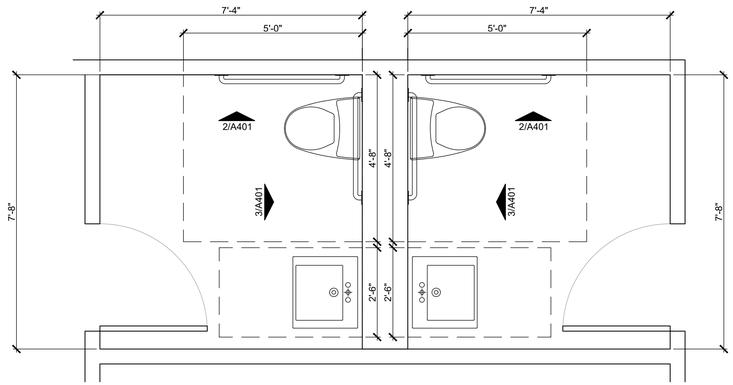
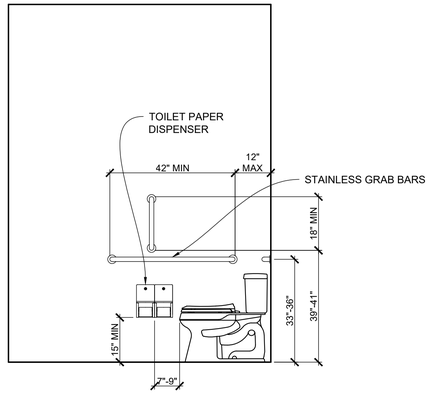
LOBBY ELEVATIONS

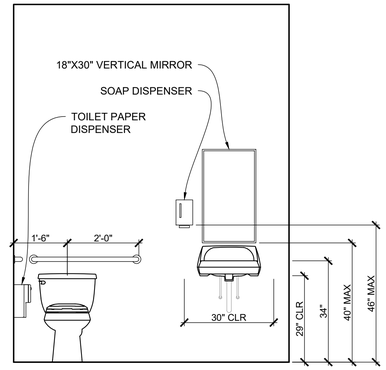
A402



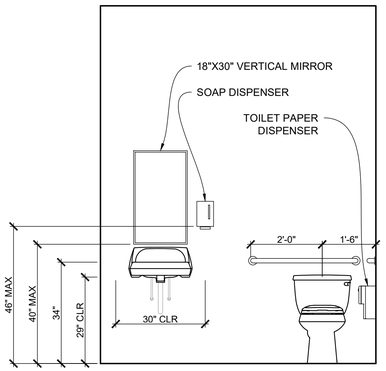
1. RESTROOMS - ENLARGED PLAN
SCALE: 1/2"=1'-0"



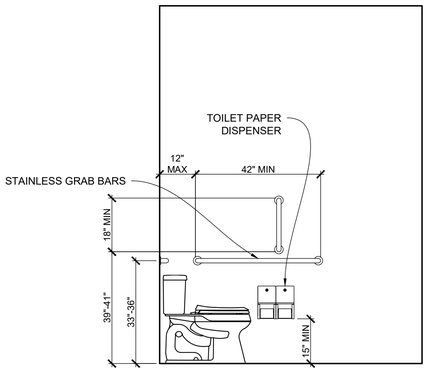
2. RESTROOM ELEVATION 1
SCALE: 1/2"=1'-0"



3. RESTROOM ELEVATION 2
SCALE: 1/2"=1'-0"



4. RESTROOM ELEVATION 3
SCALE: 1/2"=1'-0"



5. RESTROOM ELEVATION 4
SCALE: 1/2"=1'-0"

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RESTROOM
PLANS

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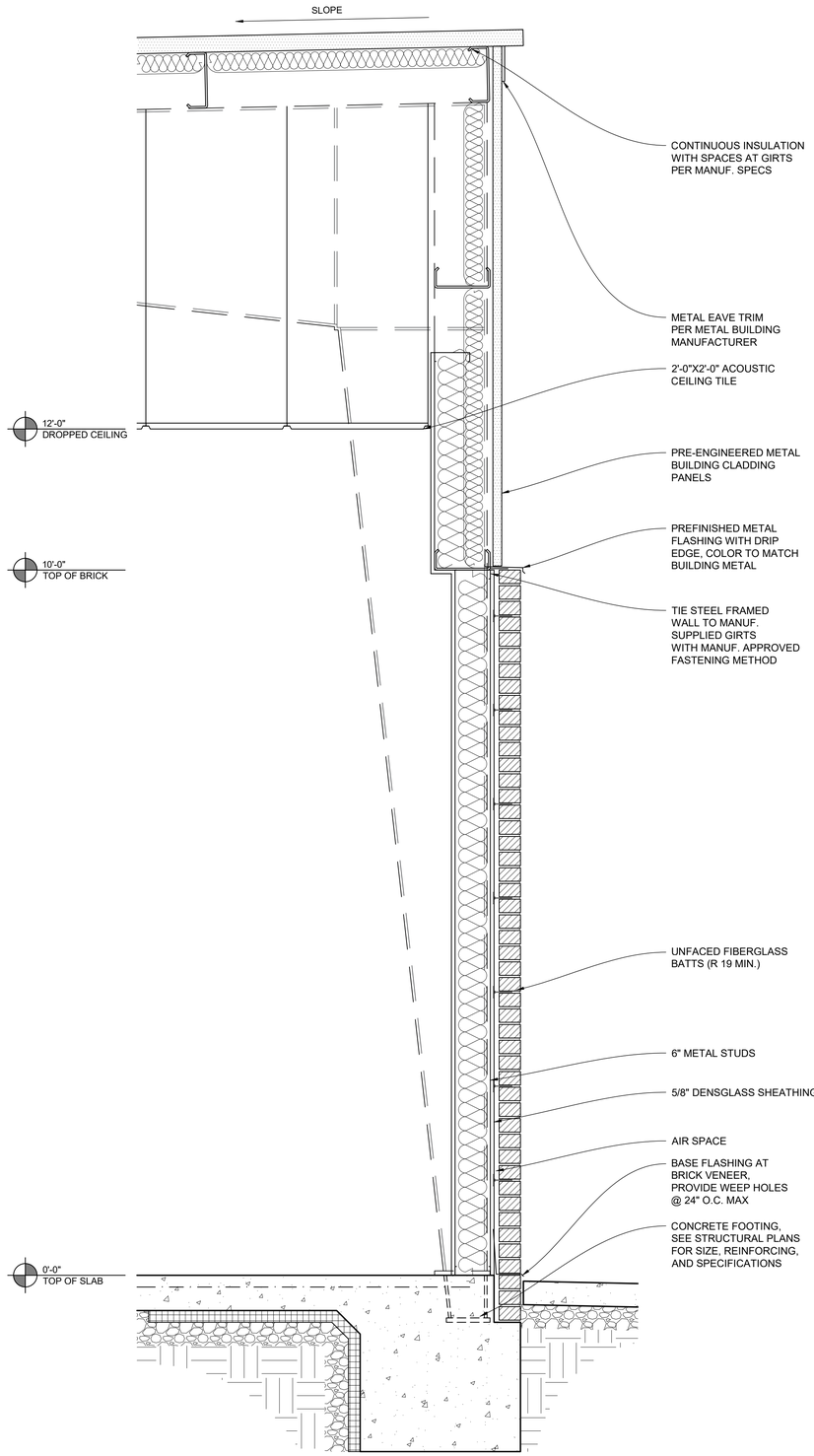
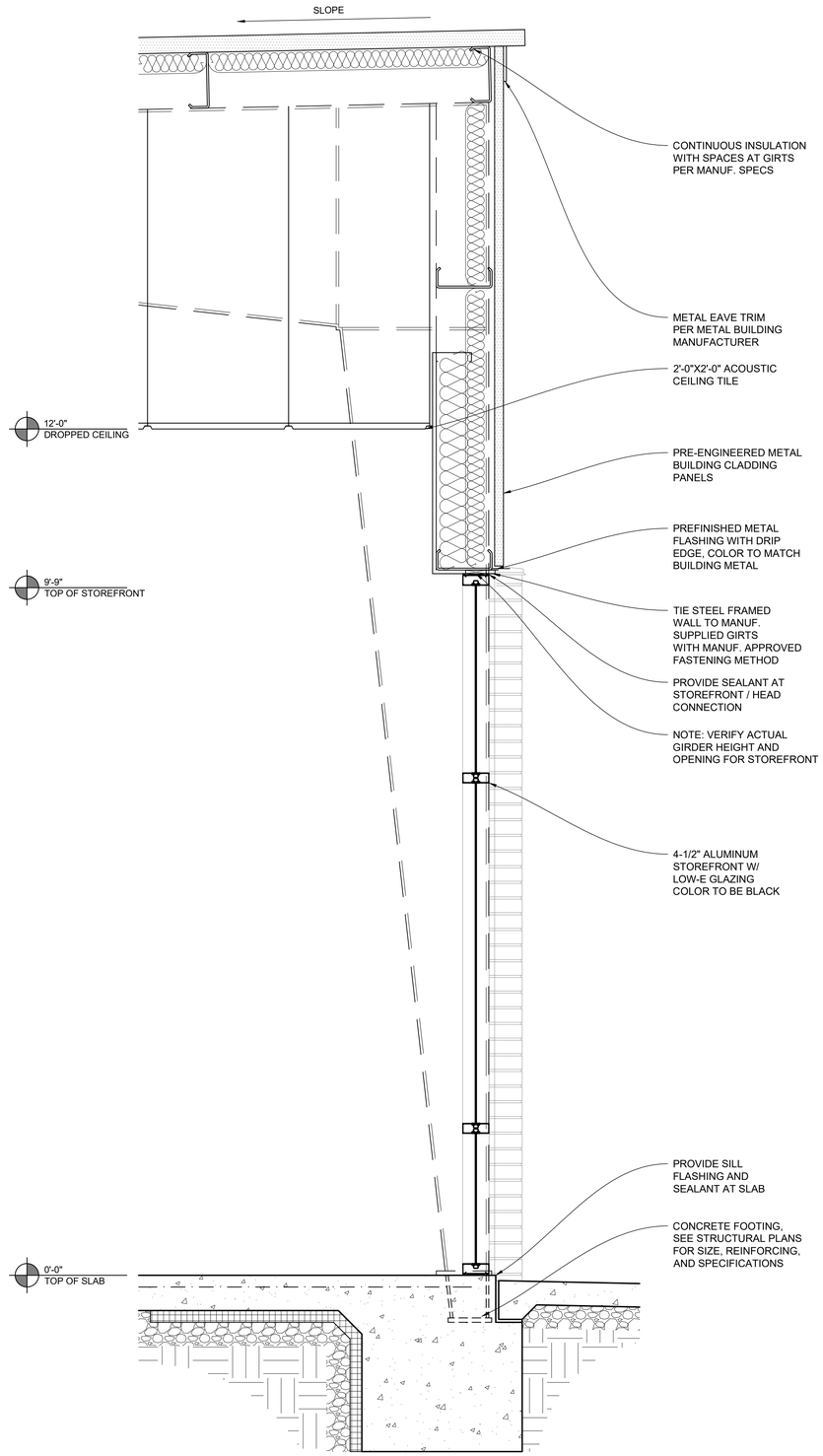


1. TYPICAL WALL SECTION AT BRICK VENEER
SCALE: 1"=1'-0"



2. TYPICAL WALL SECTION AT STOREFRONT
SCALE: 1"=1'-0"

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RUSTY LONG ENGINEERED ARCHITECTURE SEAL 11939 NORTH CAROLINA ARCHITECTURE

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WALL SECTIONS

A403