

Drawing File: H:\2025\Tirado Office & Storage Building Pkg 2025-04-02\A\DWG\G-Tirado Office-27 August 2025.dwg  
Printed Date: Sep 02, 2025 - 8:35am

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PROJECT:

TIRADO OFFICE BUILDING

US 421 SOUTH, LILLINGTON, NC 27546

PROJECT TEAM:

BUILDING DEPARTMENT:

HARNETT COUNTY  
PLANNING & INSPECTIONS DEPARTMENT  
420 MCKINNEY PARKWAY  
LILLINGTON, NC 27546  
910-893-7525

BUILDING OWNER

LUIS TIRADO  
3577 OLD US 421  
LILLINGTON, NC 27546  
919-648-3999

CODE REVIEW:

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| BUILDING        | 2018 NC BUILDING CODE                                                                               |
| PLUMBING        | 2018 NC PLUMBING CODE                                                                               |
| MECHANICAL      | 2018 NC MECHANICAL CODE                                                                             |
| ELECTRICAL      | 2020 NATIONAL ELECTRICAL CODE (NFPA-70)                                                             |
| FIRE PREVENTION | 2018 NC FIRE CODE                                                                                   |
| ENERGY          | 2018 NC ENERGY CONSERVATION CODE                                                                    |
| ACCESSIBILITY   | ICC A117.1-2009 AND THE AMERICANS WITH DISABILITIES ACT (ADAAG)<br>2018 NC BUILDING CODE CHAPTER 11 |

PROJECT DESIGNER:

JENKINS CONSULTING ENGINEERS, P.A.  
OFFICE in EUREKA SPRINGS, NC  
KELLY J. DODSON  
BUDDY JENKINS  
1606 MCARTHUR ROAD  
FAYETTEVILLE, NC 28311-1002  
910-822-1724

CONSTRUCTION MANAGEMENT:

TBD

VICINITY PLAN



BUILDING DATA:  
THE PROJECT SCOPE IS TO CONSTRUCT A NEW BUILDING TO BE USED AS A BUSINESS OFFICE.

PERMITTING STAMP

Reviewed for Fire Code Compliance

Harnett County

Roger Sullivan

10/02/2025 2:04:58 PM

Professional Engineer

Professional Engineer

Professional Engineer

JENKINS

CONSULTING ENGINEERS, P.A.

OFFICE in EUREKA SPRINGS, NORTH CAROLINA  
1606 MCARTHUR RD  
FAYETTEVILLE, NC 28311-1002  
910.822.1724

Professional Engineer

Professional Engineer

Professional Engineer

SEAL

42009

PROJECT

BUDDY JENKINS

02 SEPTEMBER 2025

|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | KJD               |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |

|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY    | CONTRACTOR/BUILDER:                  |
| PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY   | LUIS TIRADO                          |
| FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION | 3577 OLD US 421 LILLINGTON, NC 27546 |
| OWNER/TENANT:                                                      | TBD                                  |
| LUIS TIRADO                                                        | 100                                  |

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

PROJECT:

TIRADO OFFICE BUILDING

US 421 SOUTH, LILLINGTON, NC 27546

SHEET:

COVER & INDEX TO DRAWINGS

CS



2018 NORTH CAROLINA BUILDING CODE SUMMARY: APPENDIX B

Name of Project:

TIRADO OFFICE BUILDING

PartID / PIN:

110589 0009 01/ 0589-17-0727

Address:

US 421 SOUTH

Zip Code:

27546

Proposed Use:

OFFICE (BUSINESS)

Owner or Authorized Agent:

LUIS TIRADO

Phone:

919-848-3999

E-Mail:

Locavedo55@gmail.com

Owned By:

LUIS TIRADO

City/County:

LILLINGTON

State:

NORTH CAROLINA

Code Enforcement Jurisdiction:

HARNETT COUNTY

CONTACT: KELLY J. DOOSON

| DESIGNER                 | FIRM | NAME               | LICENSE #   | TELEPHONE #    | E-MAIL                      |
|--------------------------|------|--------------------|-------------|----------------|-----------------------------|
| Architectural            | N/A  | N/A                | N/A         | N/A            | N/A                         |
| Civil                    | JTE  | JEREMY R. THOMAS   | NC PE 27330 | (919) 777-6010 | jthomas@thomasmcneering.com |
| Electrical               | JCE  | DOUGLAS L. JENKINS | NC PE 28803 | (910) 822-1724 | buddy@jenkinsce.pro         |
| Fire Alarm               | N/A  | N/A                | N/A         | N/A            | N/A                         |
| Plumbing                 | JCE  | DOUGLAS L. JENKINS | NC PE 28803 | (910) 822-1724 | buddy@jenkinsce.pro         |
| Mechanical               | JCE  | DOUGLAS L. JENKINS | NC PE 28803 | (910) 822-1724 | buddy@jenkinsce.pro         |
| Sprinkler-Standpipe      | N/A  | N/A                | N/A         | N/A            | N/A                         |
| Structural :             | JCE  | KELLY J. DOOSON    | NC PE 42009 | (910) 822-1724 | kelly@jenkinsce.pro         |
| INTERIOR WALLS           | N/A  | N/A                | N/A         | N/A            | N/A                         |
| Retaining Walls >5' High | N/A  | N/A                | N/A         | N/A            | N/A                         |
| Building                 | JCE  | KELLY J. DOOSON    | NC PE 42009 | (910) 822-1724 | kelly@jenkinsce.pro         |

2018 NORTH CAROLINA BUILDING CODE: ☒ New Building ☐ Shell / Core ☐ First Time Interior Completions  
☐ Addition ☐ Phased Construction - Shell Core

2018 NORTH CAROLINA EXISTING BUILDING CODE: ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property  
 (check all that apply) ☐ Repair ☐ Alteration Level II ☐ Change of Use  
☐ Chapter 14 ☐ Alteration Level III

CONSTRUCTED: (date) N/A CURRENT USE (S) (Ch. 3): N/A  
 RENOVATED: (date) N/A PROPOSED USE (S) (Ch. 3): OFFICE (B)  
 OCCUPANCY RISK CATEGORY (Table 1604.5): Current: I Proposed: I

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A  
 (check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B  
 Sprinklers: ☒ No ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D  
 Standpipes: ☒ No ☐ Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry  
 Primary Fire District: ☒ No ☐ Yes (APPENDIX D) Flood Hazard Area: ☒ No ☐ Yes  
 Special Inspections Required: ☒ No ☐ Yes

GROSS BUILDING AREA TABLE

| FLOOR            | EXISTING (sq ft) | NEW (sq ft) | SUBTOTAL |
|------------------|------------------|-------------|----------|
| GROUND LEVEL     | 0                | 1,800       | 1,800    |
|                  |                  |             |          |
| TOTAL SPACE AREA | N/A              | 1,800       | 1,800    |

ALLOWABLE AREA

Primary Occupancy Classification(s): ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5  
 Assembly ☒  
 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-1 Condition ☐ 1 ☐ 2  
 I-2 Condition ☐ 1 ☐ 2  
 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 ☐ Repair Garage  
☐ Parking Garage ☐ Open ☐ Enclosed

Accessory Occupancy Classification(s): NONE  
 Incidental Uses (Table 509): NONE  
 This separation is not exempt as a Non-separated Use (see exceptions).  
 Special Uses (Chapter 4): ☐ 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 ☐ 428 ☐ 429 ☐ 430  
 Special Provisions (Chapter 5): ☐ 510.2 ☐ 510.3 ☐ 510.4 ☐ 510.5 ☐ 510.6 ☐ 510.7 ☐ 510.8 ☐ 510.9  
 Mixed Occupancy: ☒ No ☐ Yes Separation: HY Exception:  
☐ Non-separated Use (508.3) (508.3.1)  
☐ 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 of each use shall not exceed 1.

Separated Use Formula 508.4.2:  $\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$   
 $\frac{-}{-} + \frac{-}{-} = - \leq 1.00$

| STORY NUMBER | DESCRIPTION AND USE | (A) BLDG AREA PER STORY (ACTUAL) | (B) TABLE 506.2.4 AREA | (C) AREA FOR FRONTAGE INCREASE <sup>1, 5</sup> | (D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2, 3</sup> |
|--------------|---------------------|----------------------------------|------------------------|------------------------------------------------|-----------------------------------------------------------|
| 1            | OFFICE (BUSINESS)   | 1,800                            | 9,000                  | N/A                                            | 9,000                                                     |
|              |                     |                                  |                        |                                                |                                                           |
|              |                     |                                  |                        |                                                |                                                           |

1 Frontage area increases from Section 506.3 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F/P)  
 b. Total Building Perimeter = (P)  
 c. Ratio (F/P)  
 d. W = Minimum width (weighted average) of public way = (W) where W=(L x w + L x w) x F (Equation 5-4)  
 e. Percent of frontage increase = 100 [ F/P - 0.25 ] x W/30 = (Equation 5-5)

FRONTAGE INCREASE WORKSHEET FOR CALCULATIONS:

| EXTERIOR WALL | (F) OPEN LENGTH (feet) | (P) TOTAL LENGTH (feet) | (W) (weighted average) WIDTH OF PUBLIC WAY OR OPEN SPACE (feet) | (%) FROM CALC. ABOVE | (B) FROM TABLE ABOVE | AREA INCREASE FOR COLUMN (% x TABLE AREA) |
|---------------|------------------------|-------------------------|-----------------------------------------------------------------|----------------------|----------------------|-------------------------------------------|
| North         |                        |                         |                                                                 |                      |                      |                                           |
| South         |                        |                         |                                                                 |                      |                      |                                           |
| East          |                        |                         |                                                                 |                      |                      |                                           |
| West          |                        |                         |                                                                 |                      |                      |                                           |
| TOTAL         |                        |                         |                                                                 |                      |                      |                                           |
| EXAMPLE       | 75                     | 100                     | 25                                                              | 42                   | 23,500               | (42x23,500 = 9,870)                       |

2 Unlimited area applicable under conditions of Sections 507  
 3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2).  
 4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.  
 5 Frontage increase is based on the unsprinklered area value in Table 506.2.

BUILDING CODE SUMMARY (continued)

| ALLOWABLE HEIGHT                         |           |                |                |
|------------------------------------------|-----------|----------------|----------------|
|                                          | ALLOWABLE | SHOWN ON PLANS | CODE REFERENCE |
| Building Height in Feet (Table 504.3)    | 40        | 20'-7"         | -              |
| Building Height in Stories (Table 504.4) | 2         | 1              | -              |

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

| BUILDING ELEMENT                                         | FIRE SEPARATION DISTANCE (feet) | RATING ** (TABLE 601) |                          | DETAIL # AND SHEET # | DESIGN # FOR RATED ASSEMBLY | SHEET # FOR RATED PENETRATION | SHEET # FOR RATED JOINTS |
|----------------------------------------------------------|---------------------------------|-----------------------|--------------------------|----------------------|-----------------------------|-------------------------------|--------------------------|
|                                                          |                                 | REQ'D V-B             | PROVIDED * (w/ REDUCTION |                      |                             |                               |                          |
| Structural Frame, including columns, girders, trusses    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Bearing Walls                                            |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Exterior                                                 |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| North                                                    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| East                                                     |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| West                                                     |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| South                                                    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Interior                                                 |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Nonbearing walls and partitions                          |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Exterior walls                                           |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| North                                                    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| East                                                     |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| West                                                     |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| South                                                    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Interior Non-Bearing Walls                               |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Floor construction including supporting beams and joists |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Floor Ceiling Assembly                                   |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Columns Supporting Floors                                |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Roof construction including supporting beams and joists  |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Roof Ceiling Assembly                                    |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Columns Supporting Roof                                  |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Shaft Enclosures - Exit                                  |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Shaft Enclosures - Other                                 |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Corridor Separation                                      |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Occupancy / Fire Barrier Separation                      |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Party/Fire Wall Separation                               |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Smoke Barrier Separation                                 |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Smoke Partition                                          |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| OWNER/Dwelling Unit/ Sleeping Unit Separation            |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |
| Incidental Use Separation                                |                                 | 0                     | 0                        | N/A                  | N/A                         | N/A                           | N/A                      |

\* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

| EXTERIOR WALL | FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE | DEGREE OF OPENINGS PROTECTION (TABLE 705.6) | ALLOWABLE AREA (%) | ACTUAL SHOWN ON PLANS (%) |
|---------------|----------------------------------------------------|---------------------------------------------|--------------------|---------------------------|
| North         | -                                                  | -                                           | -                  | -                         |
| South         | -                                                  | -                                           | -                  | -                         |
| East          | -                                                  | -                                           | -                  | -                         |
| West          | -                                                  | -                                           | -                  | -                         |

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ Yes ☐ No  
 Exit Signs: ☒ Yes ☐ No  
 Fire Alarm: ☐ Yes ☒ No  
 Smoke Detection Systems: ☐ Yes ☒ No Partial ☐ Duct Detectors  
 Carbon Monoxide Detection: ☐ Yes ☒ No  
 Life Safety Systems Generator: ☐ Yes ☒ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS

☐ Fire and/or smoke rated wall locations (Chapter 7)  
☐ Assumed and real property line locations (if not on the site plan)  
☐ Exterior wall opening area with respect to distance to assumed property lines (705.6)  
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)  
☒ Occupant loads for each area  
☒ Exit access travel distances (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  
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)  
☒ Actual occupant load for each exit door  
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation  
☐ Location of doors with panic hardware (1010.1.10)  
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)  
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)  
☐ Location of doors equipped with hold-open devices  
☐ Location of emergency escape windows (1030)  
☐ The square footage of each fire area (903)  
☐ The square footage of each smoke compartment for Occupancy Classification I-II (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 |
|---------------|---------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------|
| NONE REQUIRED |                           |                           |                       |                       |                       |                       |                                 |

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 | 96" ACCESS AISLE |                             |
| SEE CIVIL DRAWING   |                           |          |                                 |                                   |                  |                             |
| TOTAL               |                           |          |                                 |                                   |                  |                             |

BUILDING CODE SUMMARY (continued)

| USE                   | WATER CLOSETS |        |        | URINALS | LAVATORIES |        |        | SHOWERS/<br>TUBS | DRINKING FOUNTAINS |            | SERVICE<br>SINK |
|-----------------------|---------------|--------|--------|---------|------------|--------|--------|------------------|--------------------|------------|-----------------|
|                       | MALE          | FEMALE | UNISEX |         | MALE       | FEMALE | UNISEX |                  | REGULAR            | ACCESSIBLE |                 |
| OFFICE (B) : REQUIRE  |               |        | 1      | 0       |            |        | 1      |                  | 0                  | 0          | 0               |
| OFFICE (B) : PROVIDED |               |        | 1      | 0       |            |        | 1      |                  | 0                  | 0          | 0               |

SPECIAL APPROVALS:

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, 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.

Existing building envelope complies with code: ☐ (If checked, the remainder of this section is not applicable.)

Exempt Building: ☐ Provide code or statutory reference:

Climate Zone: ☐ 3A ☒ 4A ☐ 5A HARNETT COUNTY

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

Value of total assembly: -

THERMAL ENVELOPE:

(Prescriptive method only)  
 Roof/Ceiling Assembly #1 (each assembly)  
 Description of assembly: METAL BUILDING ROOF PANEL + WOOD TRUSS ATTIC SPACE  
 U-Value of total assembly: NONE  
 R-Value of insulation: R-38 (EXCEPTION "g")  
 Skylights in each assembly: NONE  
 U-Value of skylight: NONE  
 Total square footage of skylights in each assembly: NONE

Exterior Walls Assembly #1 (each assembly)  
 Description of assembly: BRICK VENEER/FIBER CEMENT BOARD + WOOD STUD FRAMING  
 U-Value of total assembly: NONE  
 R-Value of insulation: R-21  
 Openings (windows or doors with glazing)  
 U-Value of assembly: 0.31 (0.32 MAX)  
 Solar heat gain coefficient: 0.23 (0.25 MAX)  
 Projection factor: -  
 Door R-Values: 2.7

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

Floors over unconditioned space (each assembly)  
 Description of assembly: N/A  
 U-Value of total assembly: -  
 R-Value of insulation: -

Floors slab on grade  
 Description of assembly: 4" CONCRETE SLAB  
 U-Value of total assembly: -  
 R-Value of insulation: -  
 Horizontal/vertical requirement:  
 slab heated: -

MECHANICAL SUMMARY (SEE DRAWING SHEET M1)

ELECTRICAL SUMMARY (SEE DRAWING SHEET E1)

HARNETT COUNTY  
BUILDING CODE SUMMARY  
for:

TIRADO OFFICE BUILDING

US 421 SOUTH, LILLINGTON, NC 27546

PERMITTING STAMP



02 SEPTEMBER 2025

DESIGNED / CHECKED BY: KJD  
 DRAWN BY: BT  
 PROJECT #: 2025-04-02.1  
 DATE: 02 SEPTEMBER 2025

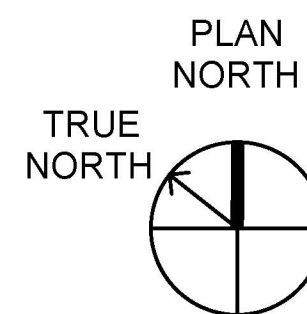
FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY  
 PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING ☒ FOR CONSTRUCTION  
 OWNER/TENANT: LUIS TIRADO  
 3077 OLD US 421 LILLINGTON, NC 27546  
 CONTRACTOR/BUILDER: TBD

REVISIONS:  
 REV DATE DESCRIPTION

PROJECT: TIRADO OFFICE BUILDING  
 US 421 SOUTH, LILLINGTON, NC 27546  
 SHEET: BUILDING CODE SUMMARY

BCS





0 2' 4' 8'

SCALE:  $1/4" = 1'-0"$

THE EGRESS CAPACITY SHALL BE BASED UPON OCCUPANT LOAD OF 8 PERSONS  
(\*) DENOTES OCCUPANT NUMBER ACCOUNTED FOR IN OCCUPANT TOTAL

| ROOM LABEL | DESCRIPTION    | NO. OF FIRE EXTINGUISHERS REQUIRED<br>PROVIDE ONE (1) FIRE EXTINGUISHER FOR EACH 3,000 SQ. FT. OF MAXIMUM TRAVEL DISTANCE |
|------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| 1          | OCCUPANT TOTAL |                                                                                                                           |

GROSS SQUARE FOOTAGE OF BUILDING 1,800 SQ. FT.  
TYPE OF CONSTRUCTION: V-B  
BUILDING IS TO BE USED AS A BUSINESS OFFICE.  
THIS BUILDING IS NOT PROTECTED BY FIRE SPRINKLERS  
OCCUPANT LOAD FOR CALCULATING EGRESS CAPACITY:  
SPACE OCCUPANCY BY FUNCTION OR SPACE  
SEE TABLE ON THIS SHEET FOR INDIVIDUAL SPACE TOTALS  
TOTAL OCCUPANT LOAD BY AREAS = 8 PERSONS

H. GREATEST TRAVEL DISTANCE SHOWN: 52 FEET. (PER 1017)  
MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FEET (PER TABLE 1017.2)  
THE COMMON PATH OF TRAVEL IS LESS THAN 75 FEET. (PER 1006.2.1)  
THERE ARE NO DEAD END CORRIDORS OVER 20 FEET. (PER 1020.4)

BUILDING EXIT WIDTH CALCULATIONS:  
8 PERSON \* 0.2' / OCCUPANT = 1.6' PER REQUIRED, 66" TOTAL PROVIDED (PER 1005.1)  
MIN. NO. OF EXIT REQUIRED: ONE (1) (PER TABLES 1006.2.1 AND 1006.3.2(2))  
NUMBER OF EXITS PROVIDED: TWO (2) ACCESSIBLE

EGRESS DOORS DO NOT REQUIRE PANIC HARDWARE. (PER 1010.1.10)  
DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1010.1.9.7)  
DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1010.1.9.9)  
DOORS DO NOT HAVE HOLD OPEN DEVICES.  
THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1030)  
NO. OF FIRE EXTINGUISHERS PROVIDED:  
PROVIDE ONE (1) FIRE EXTINGUISHER AT THIS BUILDING  
FIRE EXTINGUISHER FOR CLASS A FIRE HAZARDS REQUIRE NO GREATER THAN 75 FT.  
OF MAXIMUM TRAVEL DISTANCE IN LOW, ORDINARY AND EXTRA HAZARD OCCUPANCY.

**PROJECT:**

***TIRADO OFFICE BUILDING***  
US 421 SOUTH, LILLINGTON, NC. 27546  
**BUILDING LIFE SAFETY -  
EGRESS PLAN**

LS



|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | KJD               |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |



**JEJENKINS**  
CONSULTING ENGINEERS, PA -  
OFFICE: 1006 MARATHUR RD., NORTH CAROLINA  
CORPORATION NUMBER: CS-2070, 1006 MARATHUR RD.,  
1006 MARATHUR RD., FAYETTEVILLE, NC 28311-0002  
910.622.1724



1'-4" 8" 4" 2'-0" 0 6" 1'-0" 2'-8" 0 8" 1'-4" 2'-8" 0 8" 1'-4" 4' 0 4' 1'-0" 2' 0 1' 1'-0" 8' 0 2' 1'-0" 10'-8" 5'-4" 0 2'-8" 5'-4" 16' 0 4' 8" 0 4' 1'-0" SCALE: 1/8" = 1'-0"

**REINFORCING STEEL**  
ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO A.S.T.M. A615, GRADE 60.  
ALL REINFORCING STEEL SHALL BE MANUFACTURED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. 318R, 318R AND A.C.I. SP 68.  
WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185, IN AS LONG A LENGTH AS IS PRACTICAL. WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST ONE GRID WIDTH PLUS 2".  
REINFORCEMENT SHALL BE BENT COLD AND SHALL NOT BE WELDED.

**SPICES:**  
REINFORCEMENT IN CONCRETE AND MASONRY SHALL HAVE LAP LENGTHS AS FOLLOWS, UNLESS OTHERWISE SPECIFIED ON DRAWINGS:  
BAR SIZE: IN CONCRETE: IN MASONRY:  
#3 1'-6" 2'-0"  
#4 2'-0" 2'-6"  
#5 2'-6" 3'-0"

**PLACEMENT:**  
REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONCRETE, METAL, OR OTHER APPROVED CHAIRS, SPACERS OR TIES, AND SECURED AGAINST DISPLACEMENT DURING CONCRETE OR GROUT PLACEMENT.

EXCEPT WHERE OTHERWISE NOTED, REINFORCEMENT SHALL HAVE CONCRETE COVER AS FOLLOWS:  
CONCRETE DEPOSITED AGAINST EARTH 3"  
FORMED CONCRETE AGAINST EARTH 2"  
EXTERIOR FACES OF WALLS 1"  
TO TOP OF SLABS-ON-GRADE 3/4"

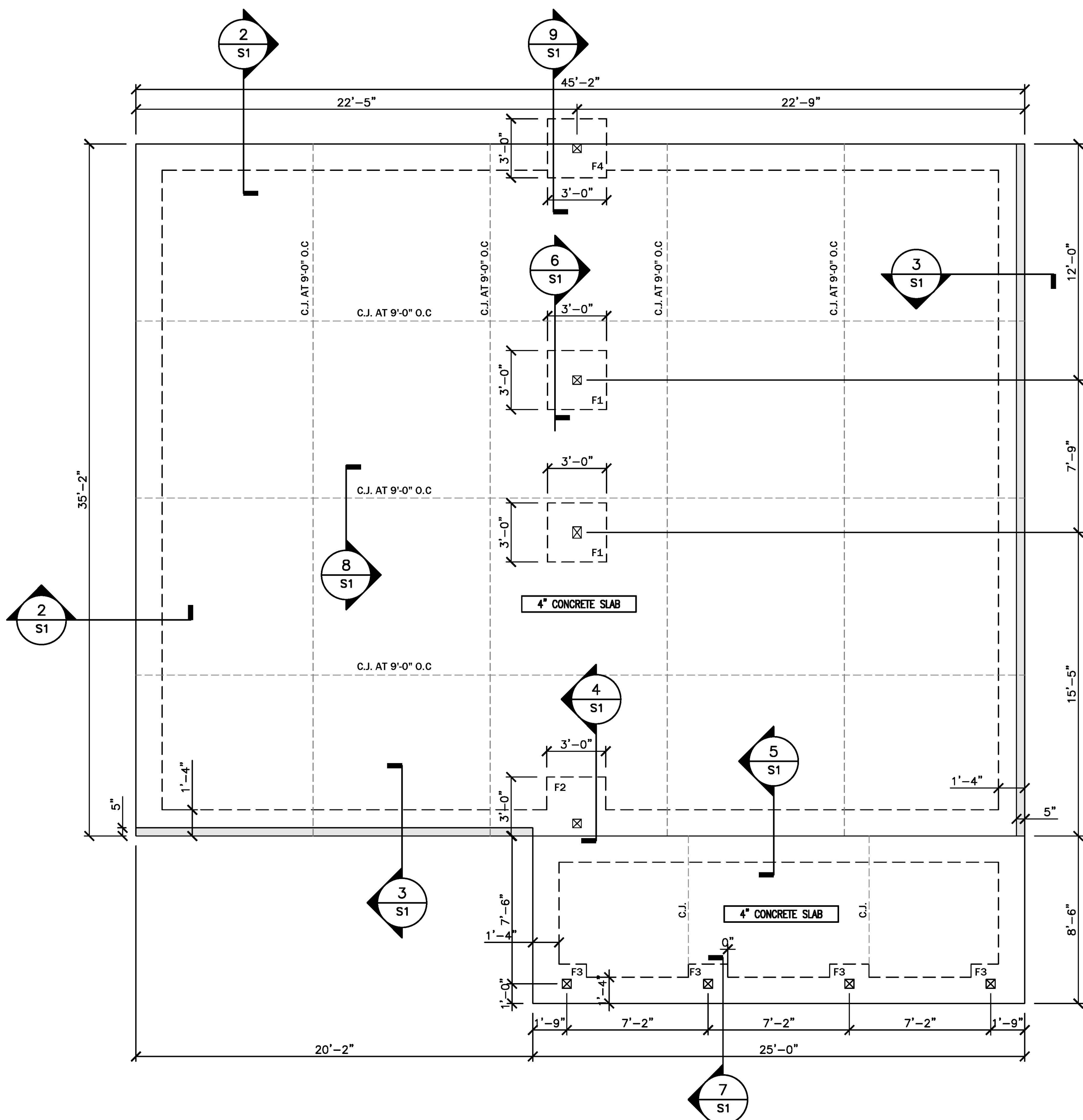
ALL SCALES, LOOSE RUST, GREASE OR DIRT SHALL BE REMOVED FROM THE REINFORCING BEFORE IT IS PLACED.  
PROVIDE #5 "HAIRPIN" X 20' LONG AT EXTERIOR COLUMN LINES.  
ANCHOR BOLTS SHALL BE (A-3077) HIGH STRENGTH.

**SOIL TREATMENT:**  
ADMINISTRATION AS ACCEPTABLE

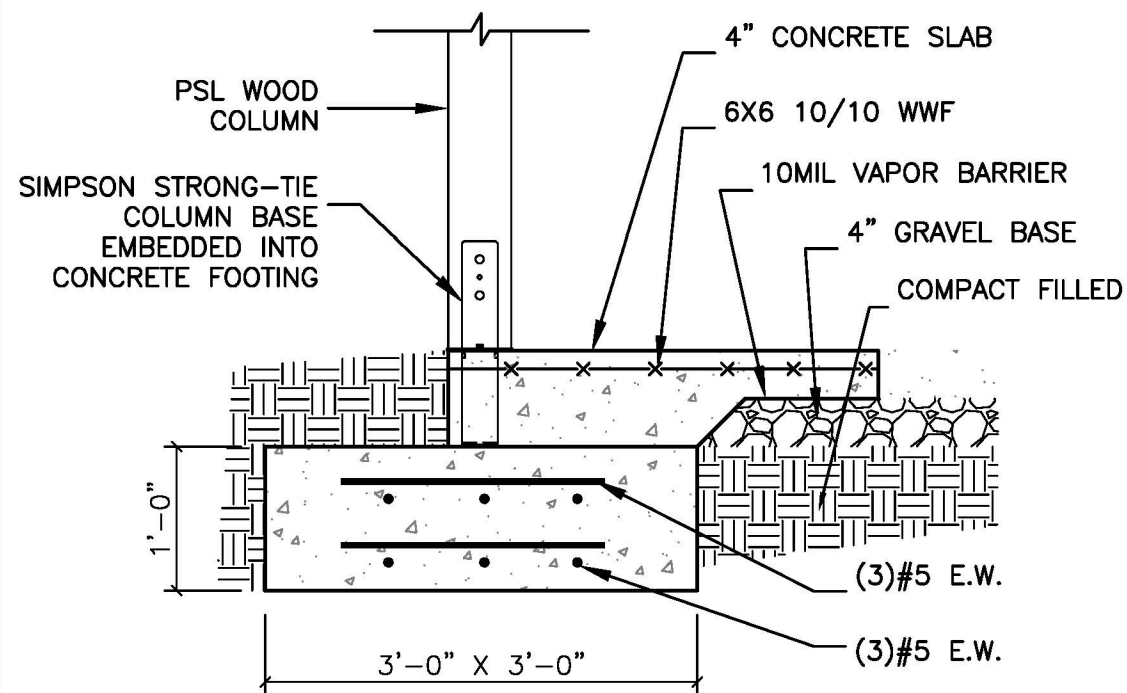
**GENERAL CONDITIONS**  
THE GENERAL CONTRACTOR SHALL MAKE ADEQUATE SANITARY PROVISIONS.  
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY AND COMPLIANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT AS IT MAY REGARD ANY PHASE OF THE WORK ON THIS PROJECT.

**SOIL COMPACTION AND TESTING**  
THE GENERAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING LABORATORY, SUCH AS S&ME OR LAW ENGINEERING FOR THE PURPOSE OF DETERMINING THE SUITABILITY OF THE SUBSURFACE CONDITIONS AND THE BEARING CAPACITIES OF ALL AREAS BELOW CONCRETE (2000psf ASSUMED).  
THE SOIL AND BEARING REPORT SHALL BE SUBMITTED PRIOR TO EXCAVATING, WHERE POSSIBLE, BUT PRIOR TO PLACEMENT OF ANY REINFORCING AND CONCRETE.

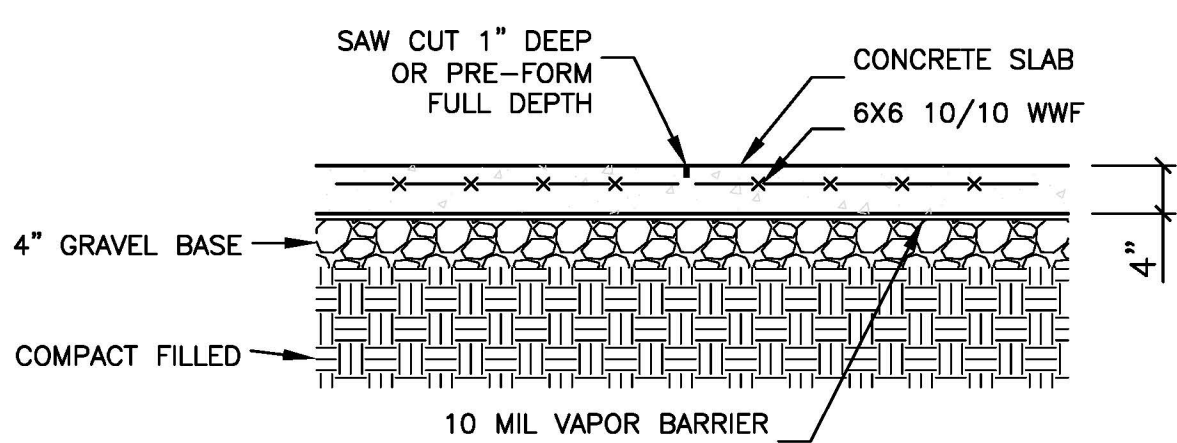
**CONCRETE WORK**  
1. ALL CONCRETE FOR THE PROJECT SHALL BE "READY MIX" AND SHALL COMPLY WITH ASTM C-94. ALL SECTIONS OF THE CONCRETE WORK SHALL COMPLY WITH ALL A.S.T.M. AND A.C.I. REQUIREMENTS.  
2. FORM WORK - ALL FORMS TO BE CAREFULLY BUILT AND SECURED IN PLACE IN SUCH A MANNER AS TO HAVE SUFFICIENT STRENGTH TO CARRY THE DEAD WEIGHT OF THE CONSTRUCTION AS A LIQUID, WITHOUT DEFLECTION OR VIBRATION. FORMS TO BE BUILT TIGHT, TRUE TO POSITION AND DIRECTION, THOROUGHLY BRACED, WIRED AND SPIKED OR OTHERWISE FASTENED TOGETHER.  
3. CONCRETE - MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD OF CONCRETE, MAXIMUM OF 4" SLUMP. 3 POUNDS OF FORTA-FERRO FIBER PER CUBIC YARD MAY BE SUBSTITUTED FOR 6X6 10 WWF.  
4. FINISHING - IN ACCORDANCE WITH THE LATEST A.C.I. CODE, PLUMB, LEVEL, TRUE IN LINE, FREE OF HONEYCOMB. BUILDING SLAB SHALL HAVE A HARD STEEL TROWEL FINISH. WALKS SHALL HAVE BROOMED FINISH AND EXPANSION JOINTS AT APPROXIMATELY 50'-0" O.C. AND DUMMY JOINTS AS SHOWN ON THE SITE PLAN.  
5. REMOVAL OF FORMS - FORMS SHALL BE CAREFULLY REMOVED SO AS NOT TO IMPAIR THE FACE OF THE CONCRETE. IMMEDIATELY AFTER THE FORMS ARE REMOVED ALL DAMAGE OF IMPERFECT WORK SHALL BE PATCHED IN A NEAT AND WORKMANLIKE MANNER OR IF BADLY DAMAGED, IN THE OPINION OF THE OWNER, THE WORK SHALL BE REBUILT. THE MINIMUM TIME BEFORE ANY FORMS CAN BE REMOVED IS SEVEN (7) DAYS FOR SUCH MEMBERS AS ARE SUBJECT TO BENDING STRESSES, SUCH AS SLABS.  
6. CURING - USE MEMBRANE CURING METHOD. USE MFG. RATE, SPRAY IMMEDIATELY FOLLOWING FINISHING. PROTECT FROM FREEZING WEATHER, CURE A TOTAL OF 28 DAYS USING A.C.I. METHODS.



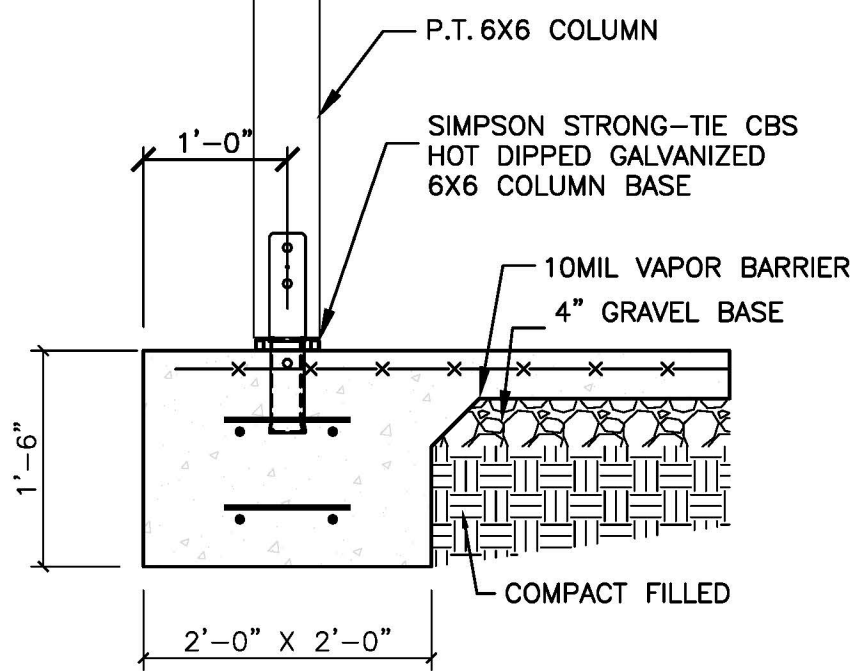
1 FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"



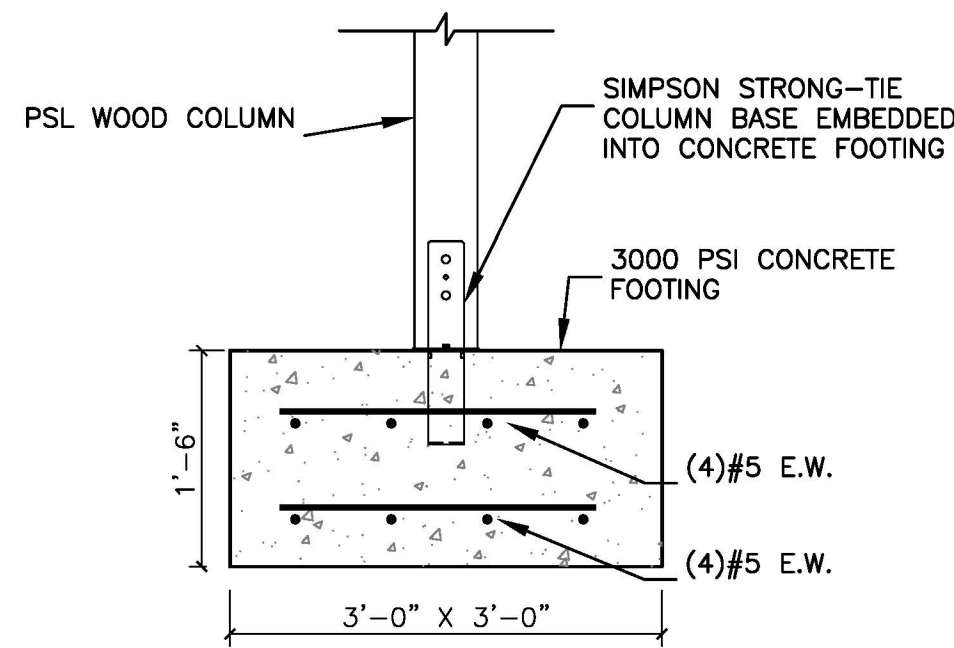
9 FOOTING DETAIL (F4)  
S1 3/4" = 1'-0"



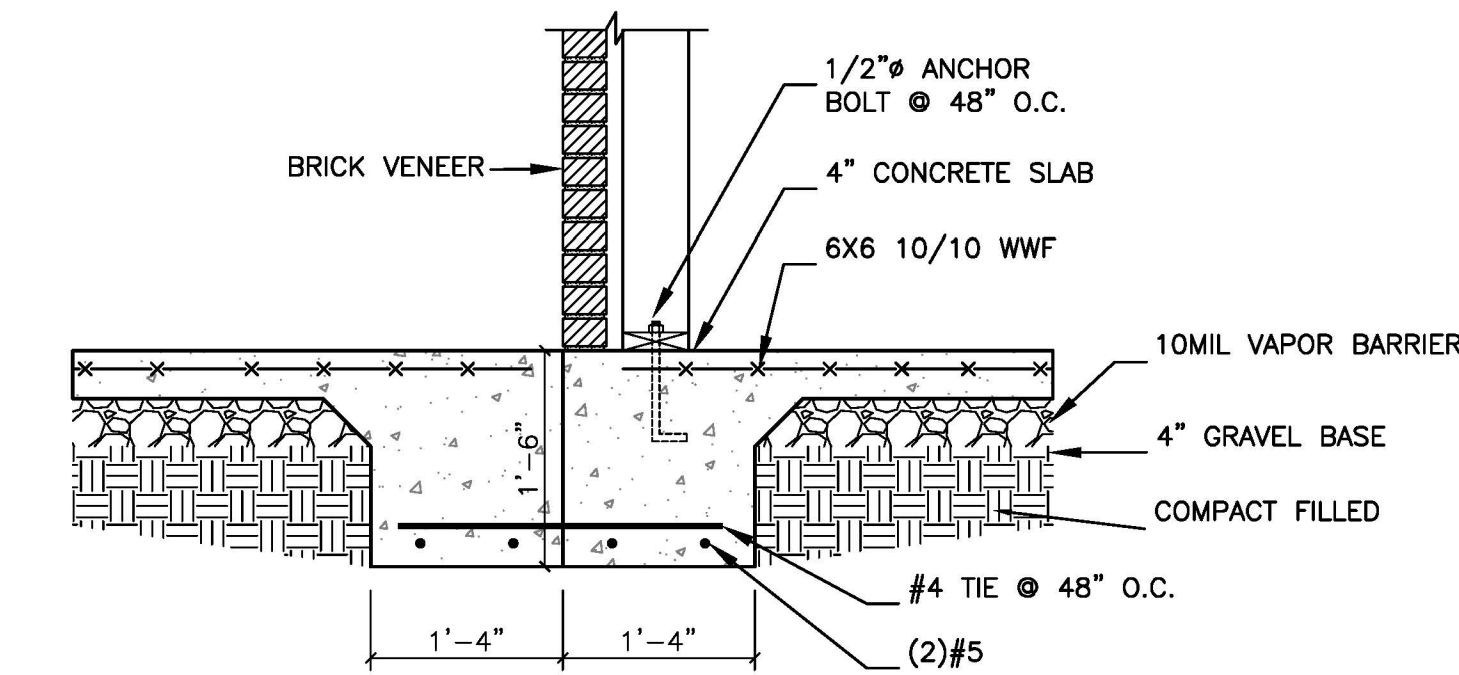
8 CONTROL JOINT DETAIL  
S1 3/4" = 1'-0"



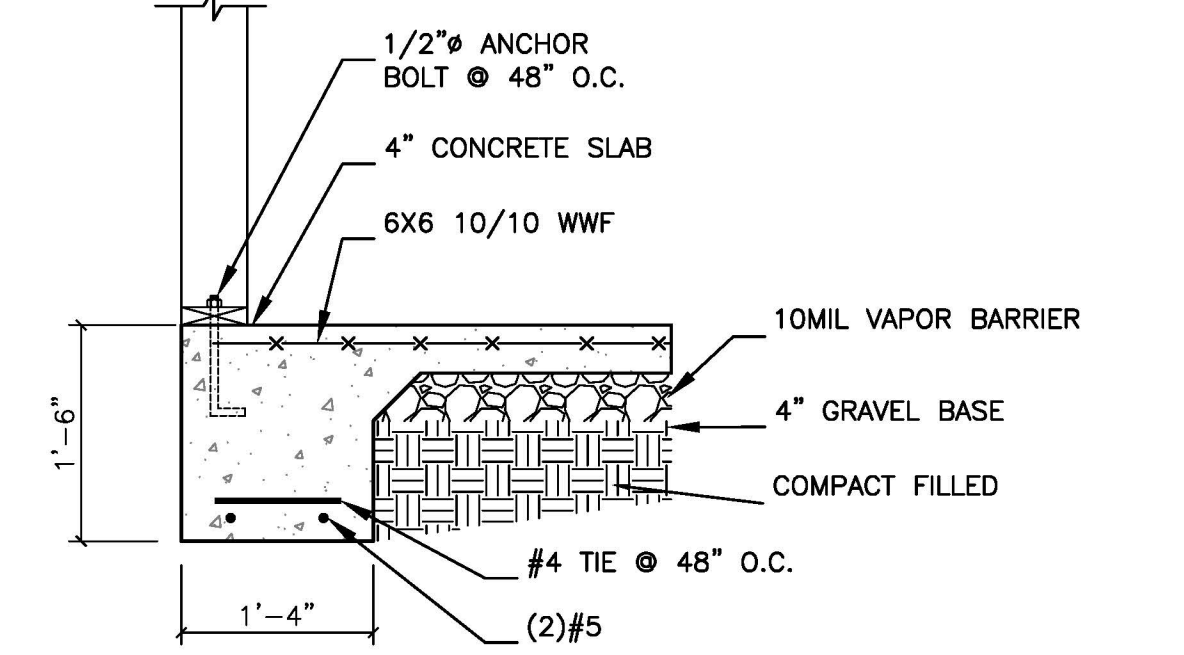
7 FOOTING DETAIL (F3)  
S1 3/4" = 1'-0"



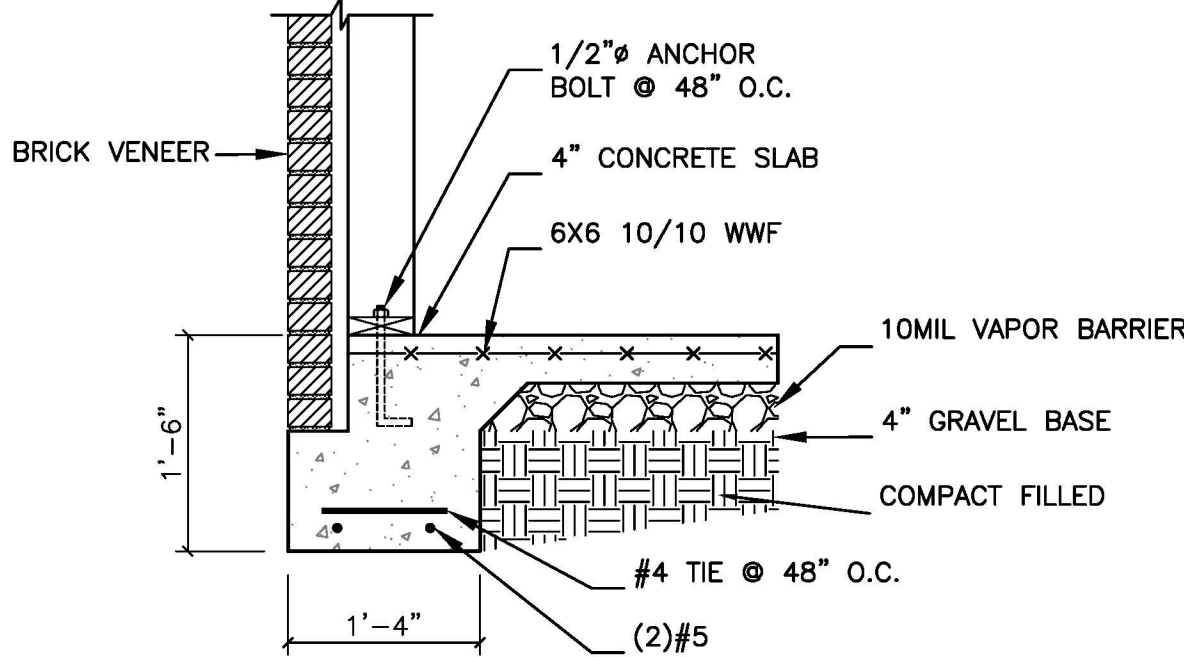
6 FOOTING DETAIL (F1)  
S1 3/4" = 1'-0"



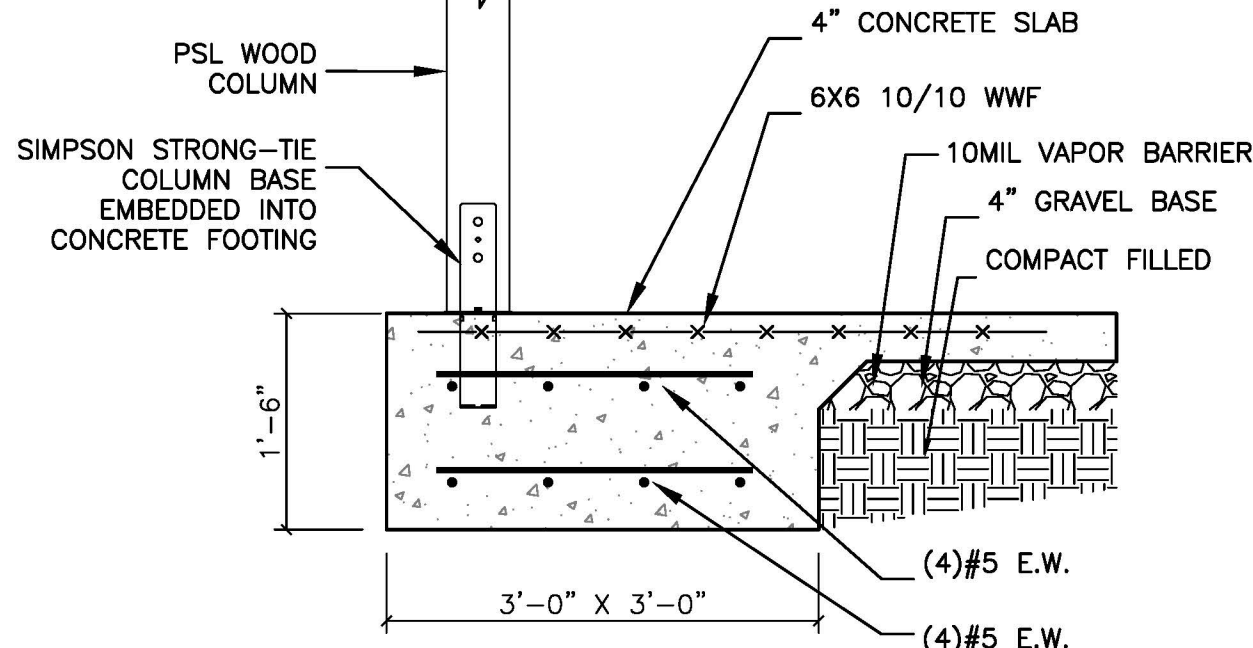
5 FOOTING DETAIL  
S1 3/4" = 1'-0"



2 FOOTING DETAIL  
S1 3/4" = 1'-0"



3 FOOTING DETAIL (BRICK VENEER)  
S1 3/4" = 1'-0"



4 FOOTING DETAIL (F2)  
S1 3/4" = 1'-0"

PERMITTING STAMP



DESIGNED / CHECKED BY: KJD  
DRAWN BY: BT  
PROJECT #: 2025-04-02.1  
DATE: 02 SEPTEMBER 2025

FINAL DRAWING [ ] FOR REVIEW PURPOSES ONLY  
PRELIMINARY [ ] FOR DESIGN DEVELOPMENT ONLY  
FINAL DRAWING [ ] FOR CONSTRUCTION  
OWNER/TENANT:  
LUIS TIRADO  
3077 OLD US 41 LILLINGTON, NC 27446  
CONTRACTOR/BUILDER:  
TBD

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

PROJECT: TIRADO OFFICE BUILDING  
US 421 SOUTH, LILLINGTON, NC 27546  
SHEET: FOUNDATION PLAN & SECTIONS  
S1



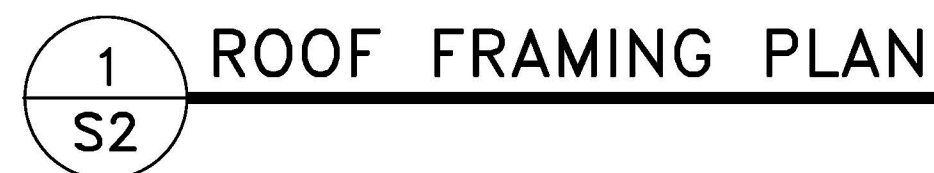
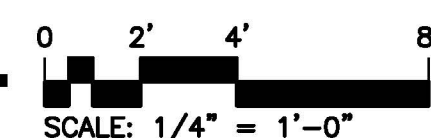


Diagram of Truss Profile C1 showing dimensions and construction details:

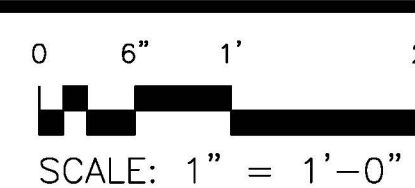
- Overall height: 2'-1"
- Top chord slope: 12/3
- Top chord horizontal projection: 1'-9"
- Bottom chord horizontal projection: 6'-7-1/2"
- Construction detail: 3 PLIES CONTINUOUS DROPPED LVL GIRDER TRUSS MANUFACTURER

**TRUSS PROFILE C1**

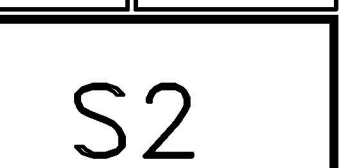
2 TRUSS PROFILES



\*\*\*ALL COLUMN SHALL BE 1.8E PARALLAM PSL  
\*\*\*CONTRACTOR SHALL COORDINATE WITH SIMPSON STRONG-TIE GUIDANCE FOR COLUMN FASTENERS.



PERMITTING STAMP



Drawing File: H:\2025\Tirado Office & Storage Building PID 2025-04-02.2\DWG\G-Tirado Office-27 August 2025.dwg  
 Plotted by: boost  
 Plotted Date: Sep 02, 2025 - 9:54am



| FINISH SCHEDULE CODES |                   |          |                        |          |                    |     |                      |        |              |
|-----------------------|-------------------|----------|------------------------|----------|--------------------|-----|----------------------|--------|--------------|
| LVT                   | LUXURY VINYL TILE | PT       | PAINTED                | WV       | VINYL WALLCOVERING | MT  | MOSAIC TILE          | V.P.   | VINYL PLANK  |
| CONC.                 | CONCRETE          | CMU      | CONCRETE MASONRY UNIT  | SC       | SEALED CONCRETE    | PNL | PANELING             | PAVERS | BRICK PAVERS |
| COMP.                 | COMPOSITION       | ACOUSTIC | ACOUSTICAL             | RU       | RUBBER             | WD  | WOOD                 | CPT    | CARPET       |
| GYP. BD.              | GYPSON BOARD      | SV       | SHEET VINYL            | CER TILE | CERAMIC TILE       | ST  | STEEL                | 1-HOUR | U-305        |
| AA                    | ANODIZED ALUMINUM | C.G      | CORNER GUARD (ACROVYN) | WC       | WAINSCOT           | FRP | FIRE RESISTANT PANEL |        |              |

1. FINISH SCHEDULE DESCRIBES ONLY THE BASIC SURFACE FINISH.
2. CASEWORK FINISHES ARE NOT SHOWN IN THE DRAWING. REFER TO SPECIFICATIONS FOR MATERIALS AND FINISHES.
3. PROVIDE CORNER GUARDS AS SHOWN ON FINISHES DRAWING.
4. F.R.P. WALL PANEL SHALL BE 51" TALL A.F.F.

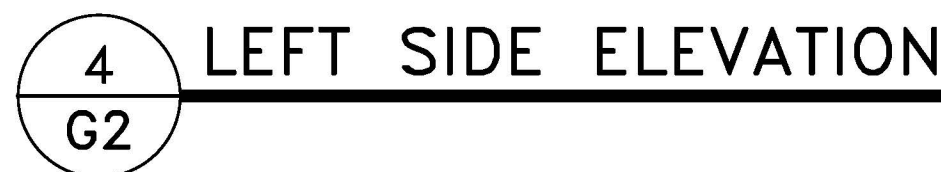
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>NOTES:</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>NOTE:</b> ALL THRESHOLDS TO MEET ADA SPECIFICATIONS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>1. APPLY 2 COATS OF SEMI-GLOSS TO ALL WOOD DOORS.</p> <p>2. ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OF EFFORT, ALL HARDWARE MUST BE DIRECT ACTING REQUIRING NO MORE THAN ONE OPERATION.</p> <p>3. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. THE MINIMUM CLEARANCE OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR PER ICC/ANSI A117.1-2009 SECTIONS 404.2.6&amp; 404.2.7</p> <p>4. G.C. TO REVIEW ALL HARDWARE SETS WITH OWNER BEFORE INSTALLATION</p> <p>5. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES</p> | <p><b>PASSAGE SET:</b> (CLOSET &amp; HALL) PASSAGE LOCKSETS KEEP DOORS FIRMLY CLOSED, BUT DO NOT ACTUALLY LOCK. BOTH LEVERS ALWAYS TURN FREE WITH NO LOCK CYLINDER OR PROVISION FOR A KEY.</p> <p><b>PRIVACY SET:</b> (RESTROOM) PRIVACY LOCKSETS ARE LOCKED WITH AN INSIDE PUSH-BUTTON. TURNING THE INSIDE KNOB OR LEVER RELEASES THE LOCK. A SMALL SCREWDRIVER CAN BE USED AS AN EMERGENCY KEY, FROM THE OUTSIDE, IF NECESSARY.</p> <p><b>ENTRANCE LOCK:</b> (ENTRY) ENTRANCE LOCKED BY PUSHING AND TURNING A BUTTON AND UNLOCKED BY THE KEY UNTIL THE INSIDE BUTTON IS MANUALLY UNLOCKED. THEY ARE ALSO AVAILABLE WITH PUSHBUTTON LOCKING, IN WHICH PUSHING THE BUTTON LOCKS THE OUTSIDE KNOB OR LEVER UNTIL IT IS UNLOCKED BY KEY OR BY TURNING THE INSIDE KNOB OR LEVER. THE INSIDE KNOB OR LEVER IS ALWAYS FREE FOR IMMEDIATE EXIT.</p> |

| WINDOW SCHEDULE |                                 |                   |                 |
|-----------------|---------------------------------|-------------------|-----------------|
| WINDOW NO       | WINDOW SIZE<br>(WIDTH X HEIGHT) | FRAME<br>MATERIAL | REMARKS         |
| WE01            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE02            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE03            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE04            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE05            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE06            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE07            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |
| WE08            | 3'-0" X 4'-0"                   | ALUM              | EXTERIOR WIDNOW |

1. FINISH SELECTION PER OWNER
2. WINDOWS SHALL BE ALUMINUM, SINGLE HUNG WITH LOCKING HARDWARE, PROVIDE EXTERIOR WINDOW INSECT SCREEN.
3. GLAZING SHALL BE 1" INSULATED, ARGON FILLED.
4. PROVIDE INTERIOR BLINDS AT EACH WINDOW.
5. WINDOW U-VALUE SHALL BE 0.31 (0.32 MAX).
6. WINDOW SOLAR HEAT GAIN COEFFICIENT SHALL BE 0.23 (0.25 MAX)
7. OPTIONAL VINYL WINDOWS MAYBE PROVIDED IF APPROVED BY OWNER

PERMITTING STAMP





**JEJENKINS**  
CONSULTING ENGINEERS, PA  
OFFICE IN: RUREDA SPRINGS, NORTH CAROLINA  
CORPORATION NUMBER C-3070    [tel@jejenkins.com](mailto:tel@jejenkins.com)  
1606 MARATHUR RD.    FAYETTEVILLE, NC 28311-1002  
910.622.1724

02 SEPTEMBER 2025

|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | KJD               |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |

|                                                                                                                                                                                                           |                                                                      |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY<br>PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY<br>FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION | OWNER/TENANT:<br>LUIS TIRADO<br>3517 OLD US 421 LILLINGTON, NC 27546 | CONTRACTOR/BUILDER:<br>TBD<br>TBD |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|

| REVISIONS: |      |             |
|------------|------|-------------|
| REV        | DATE | DESCRIPTION |
|            |      |             |
|            |      |             |
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PROJECT: ***TIRADO OFFICE BUILDING***  
US 421 SOUTH, LILLINGTON, NC 27546

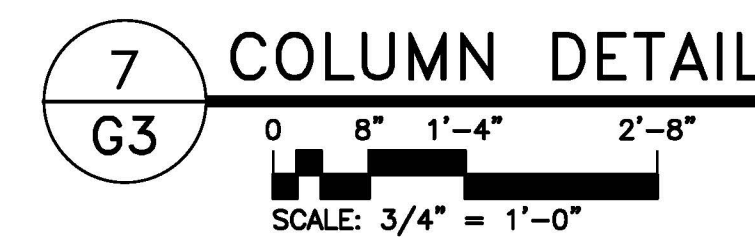
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SHEET: **BUILDING ELEVATIONS**

G2

Drawing File: H:\2025\Tirodo Office & Storage Building PID 2025-04-02.2\DWG\G-Tirodo Office-27 August 2025.dwg  
 Plotted by: boot  
 Plotted Date: Sep 02, 2025 - 9:54am





PERMITTING STAMP







**JEJENKINS**  
CONSULTING ENGINEERS, PA.  
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
CORPORATION NUMBER C-3070    [www.jenkinspa.com](http://www.jenkinspa.com)  
EUREKA SPRINGS, NC 28542    (757) 522-1724  
910.522.1724

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside this ring, the word "PROFESSIONAL" is written above the license number "42009". Below the license number, the name "K. J. JOHNSON" is handwritten across the seal. A signature, which appears to be "K. J. Johnson", is also written over the bottom portion of the seal.

02 SEPTEMBER 2025

|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | KJD               |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |

|                                                                                                                                                                                                           |                                                                                                           |
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| FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY<br>PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY<br>FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION | OWNER/TENANT:<br>LUIS TIRADO<br>3577 OLD US 421 LILLINGTON, NC 27546<br>CONTRACTOR/BUILDER:<br>TBD<br>TBD |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

[illegible]

PROJECT: ***TIRADO OFFICE BUILDING***  
US 421 SOUTH, LILLINGTON, NC 27546  
SHEET: REFLECTED CEILING PLAN & ROOF PLAN

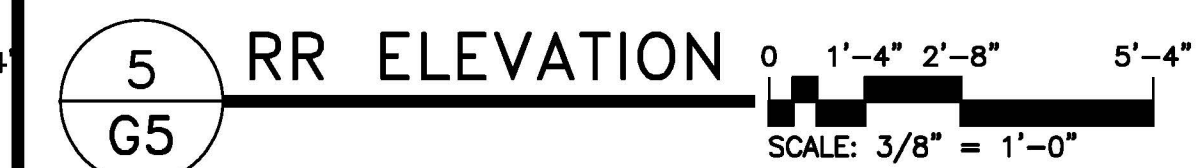
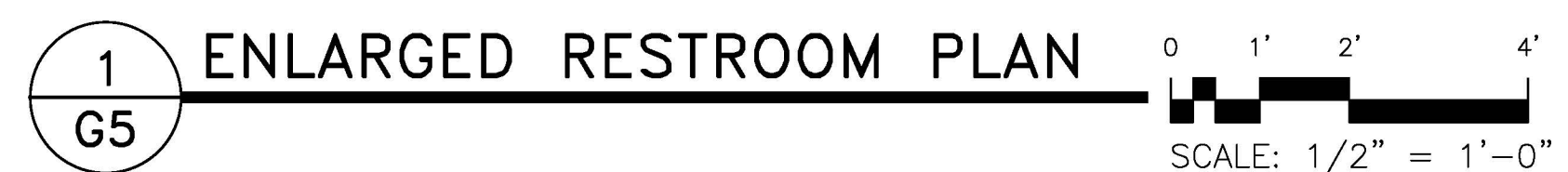
G4

Drawing File: H:\2025\Tirodo Office & Storage Building PID 2025-04-02.2\DWG\G-Tirodo Office-27 August 2025.dwg  
 Plotted by: boot  
 Plotted Date: Sep 02, 2025 - 9:54am





|                                                                                       |                                                                                                                   |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1. PROVIDE BLOCKING AT ALL WALL MOUNTED ACCESSORIES.                                  | 4. ALL TOILET ACCESSORIES TO BE SELECTED BY OWNER                                                                 |
| 2. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS. | 5. ALL TOILET ACCESSORIES TO BE INSTALLED BY CONTRACTOR                                                           |
| 3. INSTALL AT LOCATIONS REQUIRED AND AS SHOWN ON DRAWINGS.                            | 6. ALL LAVATORIES & SINKS SHALL HAVE PROTECTIVE COVERING ATTACHED TO THE SUPPLY & DRAIN LINES BELOW THE FIXTURES. |
| SEE SHEET P1 FOR PLUMBING FIXTURE SCHEDULE.                                           |                                                                                                                   |
| GYPSUM WALL BOARD SHALL BE MOISTURE RESISTANT IN RESTROOM                             |                                                                                                                   |

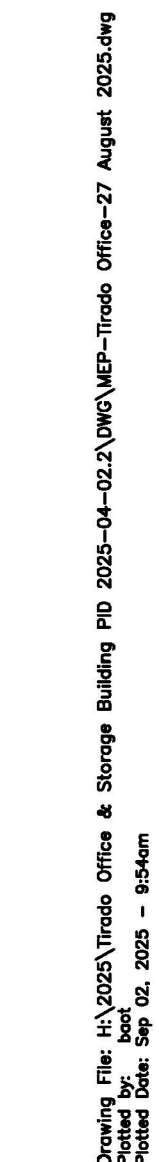


G5









| EQUIPMENT INFO |                        |              | COOLING CAPACITIES |               |            |          |            |          | HEATING CAPACITIES |             | COMPRESSOR/CONDENSER SECTION |                     |                        |             |        | ELECTRICAL INFORMATION |            |      |       | MISCELLANEOUS INFORMATION |                     |                        |             |
|----------------|------------------------|--------------|--------------------|---------------|------------|----------|------------|----------|--------------------|-------------|------------------------------|---------------------|------------------------|-------------|--------|------------------------|------------|------|-------|---------------------------|---------------------|------------------------|-------------|
| TAG            | TYPE                   | LOCATION     | NOM. TONS          | TOTAL COOLING | MIN. I/EER | MIN. EER | MIN. SEER2 | MIN. COP | UNIT CAPACITY      | UNIT. HSPF2 | NO. OF COMPR.                | COMPRESSOR AMPS RLA | CONDENSER FAN AMPS FLA | NO. OF FANS | FAN HP | UNIT VOLTS             | UNIT PHASE | MCA  | MOCAP | WIRE SIZE (CU. 75 C)      | MANUFACTURER/MODEL  | UNIT SIZE (H)(X)(W)(D) | UNIT WEIGHT |
| HP-1           | SPLIT-SYSTEM HEAT PUMP | OUTDOOR PAD. | 3.0                | 36,000        | N/A        | N/A      | 15.2       | N/A      | 36,000             | 7.8         | 1                            | 16.4                | 0.97                   | 1           | 1/6    | 240                    | 1          | 21.5 | 35    | #8                        | GOODMAN/GLZS4B43610 | 36"x36"x36"            | 211 LBS     |

\*\*\*BASIS OF DESIGN: GOODMAN EQUIPMENT. SIMILAR AND EQUAL EQUIPMENT BY TRANE, CARRIER, AND ICP MAY BE SUBSTITUTED FOR THE CARRIER EQUIPMENT. SUBMIT MANUFACTURERS LITERATURE TO ENGINEER FOR APPROVAL BEFORE SUBSTITUTING EQUIPMENT.

| EXHAUST FAN SCHEDULE |      |         |              |                 |             |           |           |       |                        |          |            |            |     |             |                                                                   |
|----------------------|------|---------|--------------|-----------------|-------------|-----------|-----------|-------|------------------------|----------|------------|------------|-----|-------------|-------------------------------------------------------------------|
| EQUIPMENT INFO       |      |         |              | FAN INFORMATION |             |           |           |       | ELECTRICAL INFORMATION |          |            |            |     | MFG & MODEL |                                                                   |
| TAG                  | QTY. | TYPE    | LOCATION     | EXHAUST CFM     | AREA SERVED | ESP IN WG | FAN DRIVE | SONES | RPM                    | FAN WATT | UNIT VOLTS | UNIT PHASE | HP  |             | WIRE SIZE (DU. 75 C)                                              |
| EF-1                 | 1    | EXHAUST | WALL MOUNTED | 70              | RESTROOM    | N/A       | DIRECT    | N/A   | N/A                    | 17       | 120        | 1          | N/A | #12         | GREENHECK / SP-UP0511-1<br>PROVIDE WALL CAP WITH BACKDRAFT DAMPER |

\*\*\* RESTROOM EXHAUST FAN SHALL CONTROLLED WITH RESTROOM LIGHT SWITCH.

## 0.08 FRICTION (HEAD) LOSS PER 100 FEET OF DUCT

MECHANICAL CONTRACTOR MAY USE EITHER ROUND OR RECTANGULAR DUCTWORK FOR HVAC SYSTEM, DEPENDING ON THE BUILDING OWNER'S PREFERENCE.

| NEW AIR HANDLING UNIT SCHEDULE |                      |          |           |                    |        |            |          |        |             |                        |                |            |            |      |                           |                      |                                      |                       |             |
|--------------------------------|----------------------|----------|-----------|--------------------|--------|------------|----------|--------|-------------|------------------------|----------------|------------|------------|------|---------------------------|----------------------|--------------------------------------|-----------------------|-------------|
| EQUIPMENT INFO                 |                      |          |           | INDOOR FAN SECTION |        |            |          |        |             | ELECTRICAL INFORMATION |                |            |            |      | MISCELLANEOUS INFORMATION |                      |                                      |                       |             |
| TAG                            | TYPE                 | LOCATION | NOM. TONS | SUPPLY CFM         | OA CFM | ESP INCHES | FAN TYPE | FAN HP | FAN RPM     | FAN FLA                | HEAT STRIPS(W) | UNIT VOLTS | UNIT PHASE | MCA  | MOCp                      | WIRE SIZE (DU. 75 C) | MANUFACTURER/MODEL                   | UNIT SIZE (H)X(W)X(D) | UNIT WEIGHT |
| AHU-1                          | UP-FLOW SPLIT-SYSTEM | CLOSET   | 3.0       | 1200               | 165    | N/A        | DIRECT   | 3/4    | VARIABLE EC | 5.7                    | 8.0 KW         | 240        | 1          | 47.3 | 50                        | #8                   | GOODMAN/ AMST36CU13 HEATER: HKS108X1 | 49"x21"x21"           | 153 LBS     |

\*\*\*RACS OF DESIGN: GOODMAN EQUIPMENT SIMILAR AND EQUAL EQUIPMENT BY TRANS CARRIER AND ICP MAY BE SUBSTITUTED FOR THE CARRIER EQUIPMENT SUBMIT MANUFACTURERS LITERATURE TO ENGINEER FOR APPROVAL BEFORE SUBSTITUTING EQUIPMENT

REMARKS FOR AHU AND HP UNITS:

1. PROVIDE ELECTRICAL HEAT AS NOTED.
2. PROVIDE DRAIN PAN WITH FLOAT SWITCH.
3. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT
4. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
5. PROVIDE VIBRATION ISOLATORS.
6. PROVIDE EQUIPMENT PAD FOR OUTDOOR UNITS.

| GRILLE/RETURN SCHEDULE |         |             |           |           |         |                       |                                       |
|------------------------|---------|-------------|-----------|-----------|---------|-----------------------|---------------------------------------|
| TAG                    | CFM     | AIR PATTERN | FACE SIZE | NECK SIZE | SERVICE | MFG & MODEL           | REMARKS                               |
| (A)                    | 50-100  | 3-WAY       | 14" X 6"  | 6"        | SUPPLY  | TRUAIRE / 103M        | SURFACE, ADJ. DAMPER, OFFWHITE, ALUM. |
| (B)                    | 110-250 | 3-WAY       | 16" X 8"  | 8"        | SUPPLY  | TRUAIRE / 103M        | SURFACE, ADJ. DAMPER, OFFWHITE, ALUM. |
| (C)                    | 100-300 | LOWERED     | 12" X 12" | 10" X 10" | RETURN  | TRUAIRE A290 OR EQUAL | SURFACE; OFF WHITE; ALUM.; FILTER     |

PERMITTING STAMP



|                        |              |
|------------------------|--------------|
| DESIGNED / CHECKED BY: | BJ           |
| DRAWN BY:              | BT           |
| PROJECT #:             | 2025-04-02.1 |
| DATE:                  |              |

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY  
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY  
FINAL DRAWING ☒ FOR CONSTRUCTION

OWNER/TENANT:  
LUIS TIRADO  
2577 OLD US 421 LILLINGTON, NC 27546

CONTRACTOR/BUILDER:  
TBD

| REVISIONS: |      |             |
|------------|------|-------------|
| REV        | DATE | DESCRIPTION |
|            |      |             |
|            |      |             |
|            |      |             |
|            |      |             |

PROJECT: ***TIRADO OFFICE BUILDING***  
US 421 SOUTH, LILLINGTON, NC 27546

SHEET: **MECHANICAL – HVAC PLAN**

M2



| ELECTRICAL LEGEND                                                                   |                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.                              |
|    | DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.;<br>TAMPER RESISTANT         |
|    | DUPLEX RECEPTACLE;<br>GROUND FAULT CIRCUIT INTERRUPTER              |
|    | DUPLEX RECEPTACLE; WEATHERPROOF<br>GROUND FAULT CIRCUIT INTERRUPTER |
|    | QUAD RECEPTACLE; MOUNT AT 18" A.F.F.                                |
|    | 2 POLE 208/240V RECEPTACLE                                          |
|    | CEILING MOUNTED DUPLEX RECEPTACLE                                   |
|    | FLOOR MOUNTED RECEPTACLE                                            |
|    | SINGLE POLE POWER/LIGHTING HOMERUN                                  |
|    | 2-POLE POWER HOMERUN                                                |
|    | 3-POLE POWER HOMERUN (3 PHASE)                                      |
|    | WALL MOUNTED DATA OUTLET                                            |
|    | WALL MOUNTED VOICE (TELEPHONE) OUTLET                               |
|    | WALL MOUNTED VOICE/DATA OUTLET                                      |
|    | TIMECLOCK                                                           |
|    | TELEVISION OUTLET                                                   |
|    | DISCONNECT                                                          |
|    | JUNCTION BOX                                                        |
|    | POWER PANEL                                                         |
|    | SWITCH                                                              |
|    | 3-WAY SWITCH                                                        |
|    | SWITCH WITH DIMMER                                                  |
|    | OCCUPANCY SENSOR WITH MANUAL OVERRIDE                               |
|   | LAY-IN/SURFACE MOUNTED LED LIGHT FIXTURE                            |
|  | LAY-IN/SURFACE MOUNTED LED; NIGHT LIGHT                             |
|  | PENDANT LIGHT                                                       |
|  | CAN LIGHT                                                           |
|  | EMERGENCY LIGHT                                                     |
|  | EXIT/EMERGENCY COMBO                                                |
|  | EXIT LIGHT                                                          |
|  | REMOTE HEAD FOR EXIT LIGHTING                                       |
|  | EXTERIOR MOUNTED WALL PACK                                          |

ELECTRICAL NOTES:  
ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NEC.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED, CONDUCTOR SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED.

ROMEX CAN NOT BE USED IN THIS PROJECT. MC CAN BE USED.

EMT SHALL BE GALVANIZED STEEL TUBING 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS. MC CABLE MAY BE SUBSTITUTED FOR CONDUIT RACKWAYS WHERE PERMITTED BY THE CODE, AND APPROVED BY OWNER.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM, NONMETALLIC, HEAVY DUTY, POLYVINYLCHLORIDE (PVC). TYPE 1 WILL BE USED FOR CONCRETE ENCASUREMENT, FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH OF 72 INCHES FOR LIGHTING, AND 36 INCHES FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUID TIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET, OR OUTSIDE AREAS, AND LIQUID TIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TELEPHONE OUTLETS ARE TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 1 1/2 INCHES BETWEEN RECEPTACLES AND TELEPHONE OUTLETS.

ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL ALIGN ALL FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION, FOLLOW THE RIGID, GENCO 30 INCH ETC. PROVIDED.

GROUND BREAKERS AND WIRE ARRESTERS FOR SPECIFIC EQUIPMENT, BEFORE ORDERING WIRE BREAKERS, FIXTURES, CONDUIT, AND ETC. FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT THAT WILL BE ACTUALLY INSTALLED, RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION FOR USE WITH ACTUAL EQUIPMENT.

ALL LIGHT SWITCHES, RECEPTACLES, WALL PLATES, TELEPHONE/COMPUTER OUTLET BOXES, AND CABLE OUTLET BOXES SHALL BE WHITE.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY THIS CONTRACT AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GENERAL BUILDING CODES, ACCEPTABLE WORKMANSHIP, OR MATERIALS SHALL BE REPLACED AT THE ELECTRICAL CONTRACTORS EXPENSE.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE DRAWINGS FOR FLOOR PLAN AND BUILDING ELEVATION DIMENSIONS.

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE ELECTRICAL CONTRACTOR SHALL ORGANIZE HIS CONDUIT, WIRE, AND CABLE RUNS IN ATTIC AND ABOVE CEILING, MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER, WHERE POSSIBLE, LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS, FREE RUNS OF PHONE, TELEVISION, SECURITY, ALARM, AND OTHER CABLES IS NOT ACCEPTABLE.

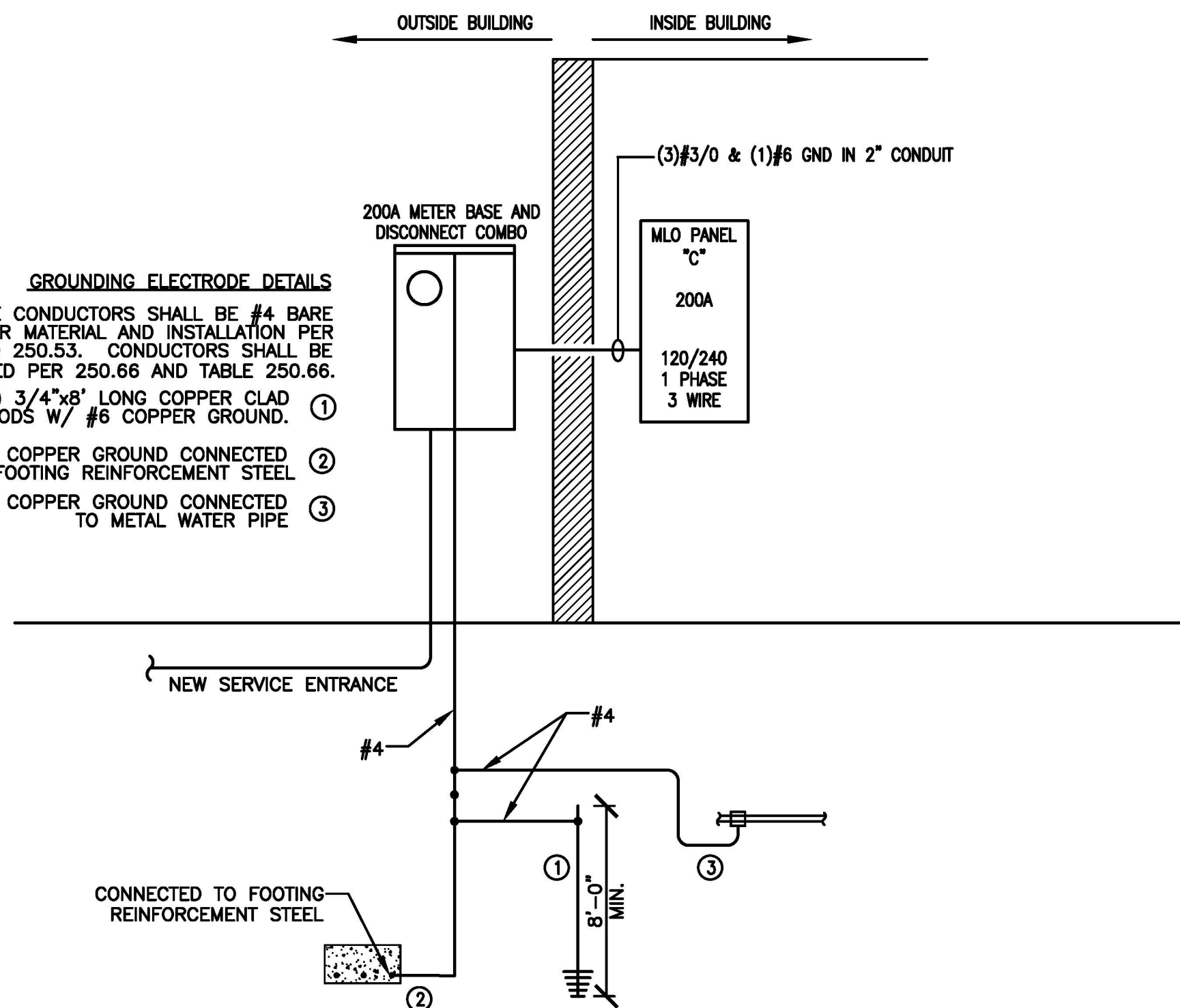
ALL DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AND ETC. SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF THE EQUIPMENT. IF THE PANELS, EQUIPMENT, SUPPLIES, AND MECHANICAL CONTRACTOR WHERE EQUIPMENT PENETRATES EXTERIOR WALLS OR ROOF, THEY SHALL BE PROPERLY SEALED.

EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND ELECTRICAL WIRING BY THE ELECTRICAL CONTRACTOR.

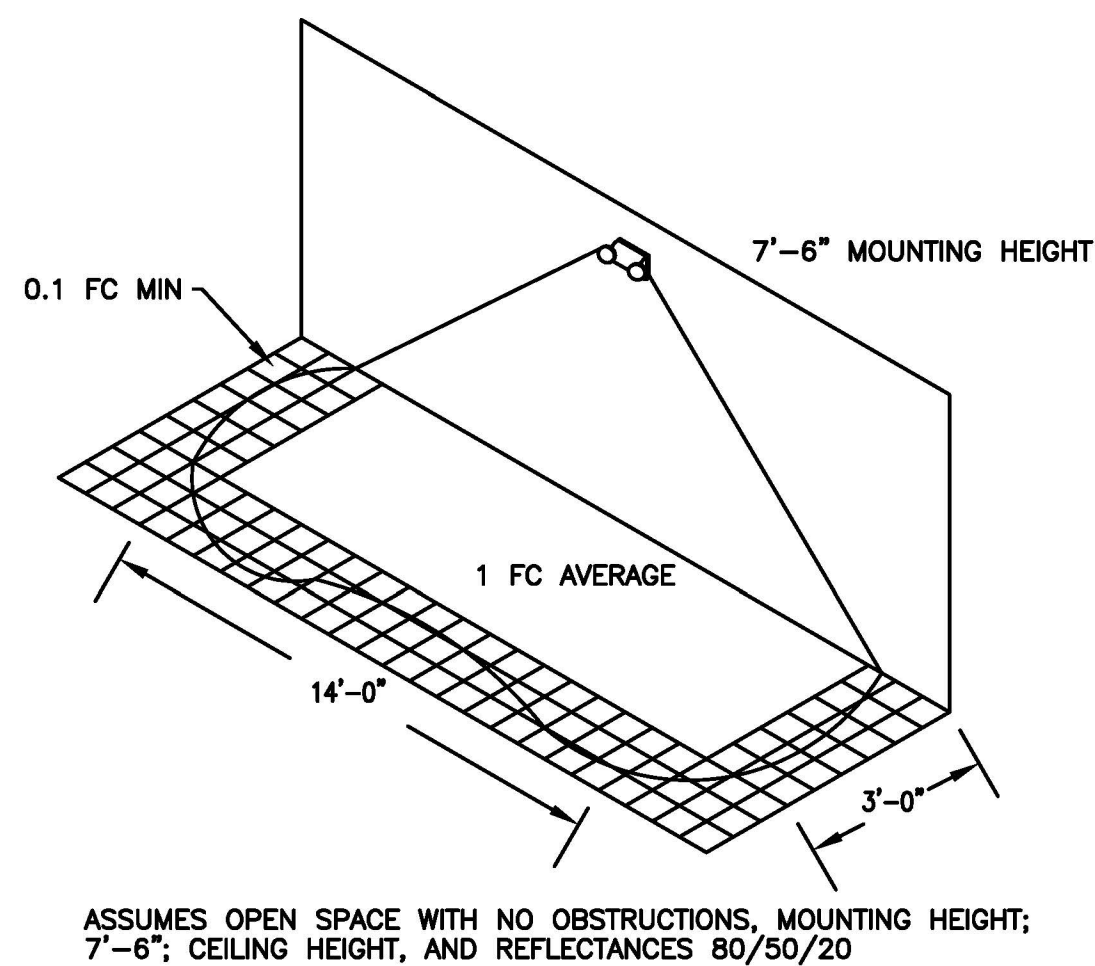
THE ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL WIRING DEVICES. NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE, NAME TAGS TO BE MOUNTED WITH SELF-TAPPING STEEL METAL SCREWS.

THE ELECTRICAL CONTRACTOR IS NOT TO SCALE THE DRAWINGS FOR RECEPTACLES AND LIGHT FIXTURES TO BE INSTALLED. THE DRAWINGS ARE FOR DIAGNOSTIC PURPOSES ONLY TO SHOW GENERAL LOCATION. THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES AND LIGHT FIXTURES WITH THE GENERAL CONTRACTOR AND/OR OTHER TRADES.

ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE RATED FOR 20 AMP UNLESS NOTED OTHERWISE.



NOT TO SCALE



| EMERGENCY LIGHT FIXTURE PERFORMANCE<br>MODEL: LITHONIA EU2L |                       |                              |                      |                               |                      |
|-------------------------------------------------------------|-----------------------|------------------------------|----------------------|-------------------------------|----------------------|
| MOUNTING<br>HEIGHT                                          | ILLUMINATION<br>LEVEL | SINGLE LUMINAIRE<br>COVERAGE |                      | MULTIPLE LUMINAIRE<br>SPACING |                      |
|                                                             |                       | 3' PATH<br>OF EGRESS         | 6' PATH<br>OF EGRESS | 3' PATH<br>OF EGRESS          | 6' PATH<br>OF EGRESS |
| 7"—6"                                                       | 1FC AVG.              | 14'                          | 10'                  | 18'                           | 14'                  |

|                                  |      |                            |                             |                      |                    |                        |                 |             |                      |              |                       |                  |      |
|----------------------------------|------|----------------------------|-----------------------------|----------------------|--------------------|------------------------|-----------------|-------------|----------------------|--------------|-----------------------|------------------|------|
| PANEL "C"                        |      |                            | PHASE: 1                    |                      | WIRE: 3            |                        | VOLTS: 240/120  |             | MAIN: 200A MLO       |              |                       |                  |      |
|                                  |      |                            | TYPE: NEMA 1                |                      | MOUNTING: RECESSED |                        |                 |             | ENCLOSURE: TYPE 1    |              |                       |                  |      |
|                                  |      |                            | SHORT CIRCUIT RATING: 22 KA |                      |                    |                        |                 |             | RMS SYM.             |              |                       |                  |      |
|                                  |      |                            | X GROUND TERMINAL BAR       |                      |                    | X NEUTRAL TERMINAL BAR |                 |             |                      |              |                       |                  |      |
| PHASE<br>LOADING                 |      | DESCRIPTION                | WIRE<br>SIZE                | CKT.<br>BKR.<br>TRIP | CKT.<br>NO.        | A                      | B               | CKT.<br>NO. | CKT.<br>BKR.<br>TRIP | WIRE<br>SIZE | DESCRIPTION           | PHASE<br>LOADING |      |
| 0                                | B    |                            |                             |                      |                    |                        |                 |             |                      |              |                       | A                | B    |
| 0.60                             |      | REFRIGERATOR               | #12                         | 20/1<br>GFCI         | 1                  |                        |                 | 2           | 20/1                 | #12          | RECEPT-RESTROOM GFCI  | 0.18             |      |
|                                  | 0.55 | RECEPT- BREAKROOM COUNTER  | #12                         | 20/1<br>GFCI         | 3                  |                        |                 | 4           | 20/1                 | #12          | RECEPT- BREAKROOM     |                  | 0.55 |
| 1.00                             |      | MICROWAVE                  | #12                         | 20/1<br>GFCI         | 5                  |                        |                 | 6           | 20/1                 | #12          | RECEPT - OFFICE 1 & 2 | 1.28             |      |
|                                  | 4.00 | RANGE                      | #8                          | 50/2                 | 7                  |                        |                 | 8           | 20/1                 | #12          | RECEPT - OFFICE 3 & 4 |                  | 1.28 |
| 4.00                             |      |                            |                             |                      | 9                  |                        |                 | 10          | 20/1                 | #12          | RECEPT - LOBBY        | 1.10             |      |
|                                  | 0.32 | LIGHT - LOBBY & HALL       | #12                         | 20/1                 | 11                 |                        |                 | 12          | 20/1                 | #12          | RECEPT - FRONT PORCH  |                  | 0.37 |
| 0.13                             |      | LIGHT - OFFICE 1, 2, RR    | #12                         | 20/1                 | 13                 |                        |                 | 14          | 20/1                 | #12          | RECEPT - EXTERIOR     | 0.37             |      |
|                                  | 0.15 | LIGHT - BREAK, OFFICE 3, 4 | #12                         | 20/1                 | 15                 |                        |                 | 16          | 20/1                 | #12          | RECEPT - MECH ROOM    |                  | 0.50 |
| 0.15                             |      | LIGHT - EXTERIOR WALL PACK | #12                         | 20/1                 | 17                 |                        |                 | 18          | -                    | -            | SPACE                 | -                |      |
|                                  | -    | SPACE                      | -                           | -                    | 19                 |                        |                 | 20          | -                    | -            | SPACE                 | -                | -    |
|                                  | -    | SPACE                      | -                           | -                    | 21                 |                        |                 | 22          | -                    | -            | SPACE                 | -                | -    |
|                                  | -    | SPACE                      | -                           | -                    | 23                 |                        |                 | 24          | -                    | -            | SPACE                 | -                | -    |
|                                  | -    | SPACE                      | -                           | -                    | 25                 |                        |                 | 26          | -                    | -            | SPACE                 | -                | -    |
|                                  | 2.58 | HP-1                       | #8                          | 35/2                 | 27                 |                        |                 | 28          | 50/2                 | #8           | AHU-1                 |                  | 5.67 |
| 2.58                             |      |                            |                             |                      | 29                 |                        |                 | 30          |                      |              |                       | 5.67             |      |
| 8.46                             | 7.60 | SUB-TOTAL (kVA)            |                             |                      |                    |                        | SUB-TOTAL (kVA) |             |                      |              |                       | 8.60             | 8.37 |
| TOTAL CONNECTED LOAD = 33.03 KVA |      |                            |                             |                      |                    |                        |                 |             |                      |              |                       |                  |      |
| TOTAL AMPS = 137.63 AMP          |      |                            |                             |                      |                    |                        |                 |             |                      |              |                       |                  |      |
| TOTAL OF: 30 SPACES              |      |                            |                             |                      |                    |                        |                 |             |                      |              |                       |                  |      |

| TOTAL CONNECTED LOAD SUMMARY |                      |                     |                      |
|------------------------------|----------------------|---------------------|----------------------|
| ITEM                         | CONNECTED LOAD (KVA) |                     | ESTIMATED LOAD (KVA) |
| HVAC                         | 18.50                | ● 100%              | = 18.50              |
| LIGHTING                     | 0.75                 | ● 125%              | = 0.93               |
| RECEPTACLES                  | 6.18                 | (T=10.00%+60+10.00) | = 6.18               |
| MISC. EQUIPMENT              | 9.60                 | ● 60%               | = 5.76               |
| TOTAL CONNECTED              | 33.03 KVA            |                     | 137.63 AMPS          |
| ESTIMATED DEMAND             | 29.37 KVA            |                     | 122.37 AMPS          |

3/0 COPPER @ 5 FEET TO PANEL (SHORTEST RUN)  
L-L FAULT CURRENT = 8,319 AMPS  
L-N FAULT CURRENT = 5,196 AMPS

## APPENDIX B ELECTRICAL DESIGN

### 2018 BUILDING CODE SUMMARY

PROJECT NAME: TIRADO TRUCK OFFICE

|              |                |             |
|--------------|----------------|-------------|
| ENERGY CODE: | X PRESCRIPTIVE | PERFORMANCE |
| ASHRAE 90.1: | PRESCRIPTIVE   | PERFORMANCE |

BALLOAST TYPE USED IN THE FIXTURE ELECTRONIC  
 NUMBER OF BALLASTS IN FIXTURE 1  
 TOTAL WATTAGE PER FIXTURE VARIABLE PER FIXTURE  
 TOTAL INTERIOR WATTAGE SPECIFIED VERSUS ALLOWED (WHOLE BUILDING) 1,476 ALLOWED - 750 SPECIFIED  
 TOTAL EXTERIOR WATTAGE SPECIFIED VERSUS ALLOWED N/A

C406.1 BUILDINGS SHALL HAVE AT LEAST ONE OF THE FOLLOWING PRESCRIPTIVE COMPLIANCE (REQUIRED FOR NEW BUILDINGS, OPTIONAL FOR EXISTING BUILDINGS)

1. MORE EFFICIENT MECHANICAL EQUIPMENT PER C406.2
2. REDUCED LIGHTING POWER DENSITY PER C406.3
3. ENHANCED LIGHTING CONTROL SYSTEMS PER C406.4
4. ON-SITE SUPPLY OF RENEWABLE ENERGY PER C406.5
5. DEDICATED OUTDOOR AIR SYSTEM PER C406.6
6. HIGHER EFFICIENCY SERVICE WATER HEATING PER C406.7

DESIGNER STATEMENT:  
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL  
SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NC ENERGY CONSERVATION CODE.

SIGNED: Buddy Jenkins  
NAME: BUDDY JENKINS  
TITLE: PROFESSIONAL ENGINEER

PERMITTING STAMP



**JENKINS**  
CONSULTING ENGINEERS, PA  
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
1508 MCARTUR ROAD  
PAYETTEVILLE, NC 28381-1502  
910.622.1724

A circular professional engineer seal for Douglas Jenkins, State of North Carolina. The seal features a rope-like border. Inside the border, the text "NORTH CAROLINA" is at the top, "PROFESSIONAL" is in the middle, "SEAL 28803" is in the center, and "ENGINEER" is at the bottom. The name "DOUGLAS JENKINS" is written along the left and right sides of the inner circle. A signature is scrawled across the bottom of the seal.

02 SEPTEMBER 2025

|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | BJ                |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY  
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY  
FINAL DRAWING ☒ FOR CONSTRUCTION

---

OWNER/TENANT:  
**LUIS TIRADO**  
3577 OLD US 421 LUNINGTON, NC 27546

---

CONTRACTOR/BUILDER:  
**TBD**  
TBD

| REVISIONS: |      |             |
|------------|------|-------------|
| REV        | DATE | DESCRIPTION |
|            |      |             |
|            |      |             |
|            |      |             |
|            |      |             |

PROJECT: ***TIRADO OFFICE BUILDING***

US 421 SOUTH, LILLINGTON, NC 27546

**ELECTRICAL RISERS & NOTES**

SHEET:

# E1





| LIGHT FIXTURE SCHEDULE |                                 |          |          |        |        |        |           |              |               |         |         |                                                         |                                                      |
|------------------------|---------------------------------|----------|----------|--------|--------|--------|-----------|--------------|---------------|---------|---------|---------------------------------------------------------|------------------------------------------------------|
| TAG                    | DESCRIPTION                     | SIZE     | MOUNTING | LENS   | COLOR  | LUMENS | BULB      | BALLAST TYPE | HOUSING       | VOLTAGE | WATTAGE | MANU/MODEL NUMBER                                       | REMARKS                                              |
| A                      | LED RECESSED DOWNLIGHT          | 6"       | RECESSED | N/A    | 4000 K | 1000   | LED       | LED DRIVER   | STEEL         | 120     | 10.4    | LITHONIA NO. LDN6 40/10 L06AR LSS OR EQUAL              |                                                      |
| B                      | LED RECESSED DOWNLIGHT          | 6"       | RECESSED | N/A    | 4000 K | 2000   | LED       | LED DRIVER   | STEEL         | 120     | 22.5    | LITHONIA NO. LDN6 40/20 L06AR LSS OR EQUAL              |                                                      |
| C                      | LED RECESSED DOWNLIGHT          | 8"       | RECESSED | N/A    | 4000 K | 1850   | LED       | LED DRIVER   | STEEL         | 120     | 20      | LITHONIA NO. WFB LEF 40K 40VOLT 90 CRI OR EQUAL         | OUTDOOR RATED                                        |
| D                      | EXTERIOR LED WALL PACK          | 13" X 9" | SURFACE  | N/A    | 4000 K | 5300   | LED       | LED DRIVER   | STEEL         | 120     | 36      | LITHONIA NO. TWR1 LED AL0 SWW2 UVOLT PE DDBTDX OR EQUAL |                                                      |
| E                      | EXTERIOR LED WALL CYLINDER      | 8" X 5"  | SURFACE  | N/A    | 4000 K | 533    | LED       | LED DRIVER   | STEEL         | 120     | 10      | LITHONIA NO. OLLWD LED P1 40K 40VOLT DDB OR EQUAL       |                                                      |
| EM                     | EMERGENCY                       | N/A      | WALL     | N/A    | N/A    | N/A    | (2) LAMPS | ELECTRONIC   | POLYCARBONATE | 120/240 |         | LITHONIA NO. EU2L M12 OR EQUAL                          | 6 VOLT NICAD BATTERY<br>TEST SWITCH, POWER INDICATOR |
| EX                     | EXIT SIGN/EMERGENCY LIGHT COMBO | N/A      | WALL     | SINGLE | N/A    | N/A    | LED LIGHT | LED DRIVER   | POLYCARBONATE | 120/240 |         | LITHONIA NO. LHQM LED R HO M6 OR EQUAL                  | 6 VOLT NICAD BATTERY,<br>(2) REMOTE HEADS            |

PERMITTING STAMP

**JE JENKINS**  
CONSULTING ENGINEERS, PA  
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
CORPORATION NUMBER C-3070 budy@jenkincpe.pro  
1000 W. HATHUR RD. FAYETTEVILLE, NC 28511-1002  
910.822.1724

A circular professional engineer seal for Douglas Jenkins, North Carolina. The seal features a rope-like border. Inside the border, the text "NORTH CAROLINA" is at the top, "DOUGLAS JENKINS" is at the bottom, and "PROFESSIONAL ENGINEER" is in the center. Below "PROFESSIONAL ENGINEER" is the seal number "28803". A signature, "Douglas Jenkins", is written across the bottom of the seal.

2 SEPTEMBER 2025

|            |                   |
|------------|-------------------|
| BJ         |                   |
| DRAWN BY:  | BT                |
| PROJECT #: | 2025-04-02.1      |
| DATE:      | 02 SEPTEMBER 2025 |

|                                                                                                                                        |                                                                      |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY<br>FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION | OWNER/TENANT:<br>LUIS TIRADO<br>3577 OLD US 421 LILLINGTON, NC 27546 | CONTRACTOR/BUILDER:<br>TBD<br>TBD |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|

| VISIONS: |      |             |
|----------|------|-------------|
| TV       | DATE | DESCRIPTION |
|          |      |             |
|          |      |             |
|          |      |             |
|          |      |             |
|          |      |             |

**TIRADO OFFICE BUILDING**

US 421 SOUTH, LILLINGTON, NC 27546

---

SHEET:

---

ELECTRICAL – POWER & LIGHTING PLAN

E2

Drawing File: H:\2025\Tirado Office & Storage Building PID 2025-04-02.2\DWG\MEP-Tirado Office-27 August 2025.dwg  
 boot  
 Plotted by:  
 Plotted Date: Sep 02, 2025 - 9:54am



Drawing File: 2025-04-02-2 (DWG) MEP-Trade Office-27 August 2025.dwg  
 Project: 2025-04-02-2 (DWG) MEP-Trade Office-27 August 2025.dwg  
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ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS. MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8 INCH PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL CAN BE CAN BE PEX PIPING (WITH OWNERS APPROVAL).

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTOR APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE, VENT PIPING, AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DWV PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION, 1/2 INCH THICK ARMSTRONG/ARMAFLEX II ON ALL COLD WATER PIPES. RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARMSTRONG/ARMALOK II ON ALL HOT WATER PIPING.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREW.

ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 OUNCE COPPER COUNTER FLASHING AND BASE FLASHING, OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

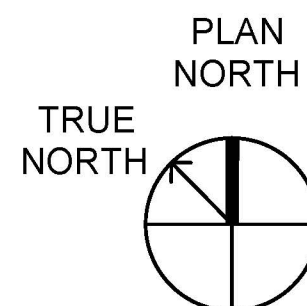
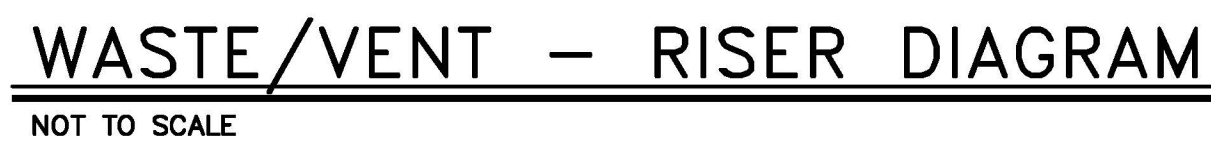


| PLUMBING FIXTURE SCHEDULE |                   |                      |                                   |                  |                                                     |                  |       |        |            |                                                           |
|---------------------------|-------------------|----------------------|-----------------------------------|------------------|-----------------------------------------------------|------------------|-------|--------|------------|-----------------------------------------------------------|
| SYMBOL                    | MANUFACTURER      | MODEL #              | FIXTURE DESCRIPTION               | FIXTURE MOUNTING | ACCESSORIES                                         | SUPPLY           | WASTE | VENT   | ELECTRICAL | REMARKS                                                   |
| P1                        | AMERICAN STANDARD | CADET ADA/ 215AA.104 | ELONGATED BOWL; FLUSH TANK TOILET | FLOOR MOUNTED    | SEAT: AMERICAN STANDARD / 5901.100                  | 3/4" C.W.        | 4"    | 2"     |            | SELECTED MODEL OR EQUAL                                   |
| P2                        | AMERICAN STANDARD | LUCERNE/ 0355.012    | LAVATORY                          | WALL MOUNTED     | DELTA 501-WFHGMHDF FAUCET MIXING VALVE / APOLLO 34B | 1/2" C.W. & H.W. | 2"    | 1-1/2" |            | SELECTED MODEL OR EQUAL                                   |
| P3                        | TBD               | TBD                  | 2 COMPARTMENT KITCHEN SINK        | DROP-IN          | PROVIDE KITCHEN SINK FAUCET, DRAIN CONNECTION       | 1/2" C.W. & H.W. | 2"    | 1-1/2" |            | SELECTED MODEL OR EQUAL                                   |
| WH                        | RHEEM             | XE10P06PU20U0        | 10 US GAL. WATER HEATER, 2.0kW    | FLOOR MOUNTED    | 3/4" T & P RELIEF VALVE; PROVIDE DRAIN PAN          | 3/4" C.W. & H.W. | -     | -      | 120V 2.0KW | SELECTED MODEL OR EQUAL 120°F OUTLET TEMPERATURE MINIMUM. |
| HB                        | WATTS             | TBD                  | FROST-PROOF WALL HYDRANT          | WALL MOUNTED     | -                                                   | 3/4" C.W.        | -     | -      | -          |                                                           |

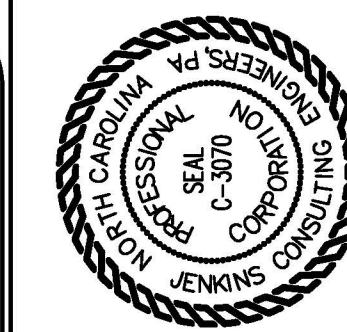
| WATER CALCULATIONS               |              |                    |                                 |                                  |
|----------------------------------|--------------|--------------------|---------------------------------|----------------------------------|
| QTY.                             | ITEM         | C.W. FIXTURE UNITS | WATER SUPPLY FIXTURE UNITS EACH | WATER SUPPLY FIXTURE UNITS TOTAL |
| 1                                | WATER CLOSET | 5.0                | 5.0                             | 5.0                              |
| 1                                | LAVATORY     | 1.5                | 2.0                             | 2.0                              |
| 1                                | KITCHEN SINK | 1.5                | 2.0                             | 2.0                              |
| 3                                | HOSE BIBB    | 2.25               | 2.25                            | 6.75                             |
| TOTAL WATER SUPPLY FIXTURE UNITS |              |                    |                                 | 15.75                            |

| DRAINAGE CALCULATIONS        |              |                              |                                    |
|------------------------------|--------------|------------------------------|------------------------------------|
| QTY.                         | ITEM         | DRAINAGE<br>FIXTURE<br>UNITS | DRAINAGE<br>FIXTURE UNITS<br>TOTAL |
| 1                            | WATER CLOSET | 4.0                          | 4.0                                |
| 1                            | LAVATORY     | 1.0                          | 1.0                                |
| 1                            | KITCHEN SINK | 2.0                          | 2.0                                |
| TOTAL DRAINAGE FIXTURE UNITS |              |                              | 7.0                                |

| PLUMBING SYMBOL LEGEND                                                              |                 |
|-------------------------------------------------------------------------------------|-----------------|
|  | HOT WATER LINE  |
|  | COLD WATER LINE |
|  | PIPE TURNS UP   |
|  | PIPE TURNS DOWN |
|  | SHUT OFF VALVE  |
|  | SANITARY WASTE  |
|  | VENT LINE       |



## PERMITTING STAMP



**JENKINS**  
CONSULTING ENGINEERS, PA  
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
CORPORATION NUMBER C-3070    BUSBY@JENKINSPE.COM  
1606 NORTH HURD RD.    FAYETTEVILLE, NC 28311-1002



02 SEPTEMBER 2025

|                        |                   |
|------------------------|-------------------|
| DESIGNED / CHECKED BY: | BJ                |
| DRAWN BY:              | BT                |
| PROJECT #:             | 2025-04-02.1      |
| DATE:                  | 02 SEPTEMBER 2025 |

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY  
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY  
FINAL DRAWING ☒ FOR CONSTRUCTION

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OWNER/TENANT:  
LUIS TIRADO  
3577 OLD US 421 LILLINGTON, NC 27546

CONTRACTOR/BUILDER:  
TBD  
TBD

| REVISIONS: |      |             |
|------------|------|-------------|
| REV        | DATE | DESCRIPTION |
|            |      |             |
|            |      |             |
|            |      |             |
|            |      |             |

PROJECT: ***TIRADO OFFICE BUILDING***  
US 421 SOUTH, LILLINGTON, NC 27546

PROJECT: **PLUMBING – WASTE AND WATER PLUMBING**

P 1





**Harnett**  
COUNTY  
NORTH CAROLINA



Emergency Services Department

www.harnett.org

## Application for Plan Review

Application # \_\_\_\_\_

Date Received: \_\_\_\_\_ Received By: \_\_\_\_\_

Name of Project: Tirado Truck Repair

Physical Address of Project: US 421 South

Lillington, NC 27546

Plans Submitted By: Jenkins Consulting Engineers

Project Phone: (910) 822-1724

Contact Person/Address: Margaret Collier

1606 McArthur Rd

Fayetteville, NC 28311

Contact Email: Margaretc@jenkinsce.pro

Contact Phone: (910) 822-1724

Contractor's Name/Info: TBD

Contractor's Phone: ( ) - -

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website <http://htweb.harnett.org/Click2GovBP/Index.jsp> or by calling the Harnett County Central Permitting Office (910-893-7525, Option #2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.





\*Each section below must be filled out by whoever is performing the work. Must be owner or licensed contractor. Address, company name & phone must match information on state license.

Application # \_\_\_\_\_  
Harnett County Central Permitting  
PO Box 65 Lillington, NC 27546  
910-893-7525 Fax 910-893-2793 www.harnett.org/permits

**COMMERCIAL**

**Application for Building and Trades Permit**

Owner's Name: Tirado Transport LLC Date: 09/03/2025

Site Address: 3577 US 421 South Lillington NC 27546 Phone: 919-648-3999

Description of Proposed Work: Build new truck stop garage, storage and office buildings

**General Contractor Information:** Building Cost \$ \_\_\_\_\_

TBD \_\_\_\_\_

Building Contractor's Company Name \_\_\_\_\_ Telephone \_\_\_\_\_

Address \_\_\_\_\_ Email Address \_\_\_\_\_

Signature of Owner/Contractor/Officer(s) of Corporation \_\_\_\_\_ License # \_\_\_\_\_

**Electrical Contractor Information:** Electrical Cost \$ \_\_\_\_\_

Description of Work \_\_\_\_\_ Service Size: \_\_\_\_\_ Amps #T-Poles \_\_\_\_\_

Electrical Contractor's Company Name \_\_\_\_\_ Telephone \_\_\_\_\_

TBD \_\_\_\_\_

Address \_\_\_\_\_ Email Address \_\_\_\_\_

Signature of Owner/Contractor/Officer(s) of Corporation \_\_\_\_\_ License # \_\_\_\_\_

**Mechanical Contractor Information:** Mechanical Cost \$ \_\_\_\_\_

Description of Work TBD # Units \_\_\_\_\_

Mechanical Contractor's Company Name \_\_\_\_\_ Telephone \_\_\_\_\_

TBD \_\_\_\_\_

Address \_\_\_\_\_ Email Address \_\_\_\_\_

Signature of Owner/Contractor/Officer(s) of Corporation \_\_\_\_\_ License # \_\_\_\_\_

**Plumbing Contractor Information:** Plumbing Cost \$ \_\_\_\_\_

Description of Work \_\_\_\_\_ # Baths \_\_\_\_\_

Plumbing Contractor's Company Name \_\_\_\_\_ Telephone \_\_\_\_\_

TBD \_\_\_\_\_

Address \_\_\_\_\_ Email Address \_\_\_\_\_

Signature of Owner/Contractor/Officer(s) of Corporation \_\_\_\_\_ License # \_\_\_\_\_

**Insulation Contractor Information**

TBD \_\_\_\_\_

Insulation Contractor's Company Name & Address \_\_\_\_\_ Telephone \_\_\_\_\_

**\*NOTE: General Contractor must fill out and sign the second page of this application**





### Sprinkler Contractor Information

NA

Sprinkler Contractor's Company Name

Telephone

Address

Email Address

Signature of Officer(s) of Corporation

License #

### Fire Alarm Contractor Information

Fire Alarm Contractor's Company Name

Telephone

NA

Address

Email Address

Signature of Officer(s) of Corporation

License #

**Driveway Access** - NC Department of Transportation Driveway Access/Permit? ☐ Yes ☒ No

I hereby certify that I have the authority to make necessary application, that the application is correct and that the construction will conform to the regulations in the Building, Electrical, Plumbing and Mechanical codes, and the Harnett County Zoning Ordinance. I state the information on the above contractors is correct as known to me and if **any** changes occur including listed contractors, site plan, number of bedrooms, building and trade plans, Environmental Health permit changes or proposed use changes, I certify it is my responsibility to notify the Harnett County Central Permitting Department of any and all changes.

**Expired Permit Fees - 6 months to 2 years permit re-issue fee is \$150.00. After 2 years re-issue fee is charged at full price per current fee schedule.**

Margaret B. Collier  
Signature of Owner/Contractor/Officer(s) of Corporation

9/3/2025

Date

### **Affidavit for Worker's Compensation N.C.G.S. 87-14**

The undersigned applicant being the:

☐ General Contractor ☐ Owner ☐ Officer/Agent of the Contractor or Owner

Do hereby confirm under penalties of perjury that the person(s), firm(s) or corporation(s) performing the work set forth in the permit:

☐ Has three (3) or more employees and has obtained workers' compensation insurance to cover them.

☐ Has one (1) or more subcontractors(s) and has obtained workers' compensation insurance to cover them.

☐ Has one (1) or more subcontractors(s) who has their own policy of workers' compensation insurance covering themselves.

☐ Has no more than two (2) employees and no subcontractors.

While working on the project for which this permit is sought it is understood that the Central Permitting Department issuing the permit may require certificates of coverage of worker's compensation insurance prior to issuance of the permit and at any time during the permitted work from any person, firm or corporation carrying out the work.

Sign w/Title: \_\_\_\_\_

Date: 9/3/2025