SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

☐ NEW SEPTIC ☐ REPAIR ☒ USE EXISTING ☐ MODIFIED PLOT PLAN ☐ ALTERATION

File Number: 10158B

Assigned Inspector: Kim Garrett

☐ IP $250.00: _____ Initial/Date

☐ IP Commercial $450.00: _____ Initial/Date

☐ CA & OP $400.00: _____ Initial/Date

☐ Alteration Fees $300: _____ Initial/Date

☐ Modified Plot Plan Fees $100.00: _____ Initial/Date

☒ Use Existing Fees $100.00: SO 9/18/23 Initial/Date

☒ Use Existing Approved ☐ Use Existing Denied

KGarrett

☐ Send IP permit for signature: _____ ☐ Signature received: _____

☐ Floor plans reviewed

☐ Generate CA ☐ Approve as Noted in Winchester

☐ This site is served by septic and well. Verify each is complete before final hold is released

☐ This septic system requires a certified operation contract before final hold is released

☐ Certified operator contract is on file: _____

☐ Septic file complete: _____

☐ Release final hold in Winchester: _____

Comments:

101588 / 14139

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR APPROVAL TO USE AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM / WATER SUPPLY WELL

APPLICATION TYPE: ○ SEPTIC ONLY ○ WELL ONLY ◉ SEPTIC & WELL
○ ADDITION OR RENOVATION WITH OCCUPANCY INCREASE ○ EXCHANGE MOBILE HOME (SAME # BEDROOMS)
◉ ADDITION OR RENOVATION WITH NO OCCUPANCY INCREASE ○ COMMERCIAL OR INDUSTRIAL

PERSON FILING APPLICATION:
NAME: David Malushizky
ADDRESS: 21601 Shearer Road
CITY: Davidson
STATE: NC ZIP: 28036
PHONE: (704) 975-5960
ALTERNATE PHONE:
E-MAIL: davem@therbagroup.com

PROPERTY OWNER: ☑ SAME AS PERSON FILING APPLICATION
NAME:
ADDRESS:
CITY:
STATE: ZIP:
PHONE:
ALTERNATE PHONE:
E-MAIL:

JOB LOCATION INFORMATION
TAX PARCEL #: 00305105
STREET ADDRESS: 21601 Shearer Road
CITY: Davidson
STATE: NC **ZIP:** 28036

SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #:

WATER SUPPLY:
○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER

RESIDENTIAL PROPERTY TYPE: ○ N/A
◉ HOUSE ○ MODULAR HOME ○ MULTIPLE FAMILY
○ SINGLE MOBILE HOME ○ DOUBLE WIDE
○ OTHER

OCCUPANCY (both fields are required):
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 2

COMMERCIAL / INDUSTRIAL PROPERTY TYPE: ☑ N/A
TYPE OF BUSINESS:
EMPLOYEES PER SHIFT:
OF SHIFTS:
INDUSTRIAL WASTES? ○ YES ○ NO
UNDERGROUND STORAGE TANKS? ○ YES ○ NO

ADDITION/RENOVATION TYPE ATTACHED TO EXISTING STRUCTURE:
☐ BEDROOM ☐ BATHROOM ☐ KITCHEN ☐ DINING ROOM ☐ LIVING ROOM ☐ DEN
☐ GARAGE ☐ SUNROOM ☐ PORCH ☐ DECK ☐ OTHER

ADDITION/RENOVATION TYPE DETACHED FROM EXISTING STRUCTURE:
☒ DETACHED GARAGE ☐ DETACHED GARAGE WITH PLUMBING ☐ POOL HOUSE ☐ SHOP ☐ BARN
☐ STORAGE SHED ☐ DETACHED PORCH / DECK ☐ OTHER

*The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature — Date: 9/19/23

A PROPOSED PLOT PLAN (see page 2) is required to be submitted with each application.

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202. OFFICE: 704-336-5103. FAX: 704-336-6894

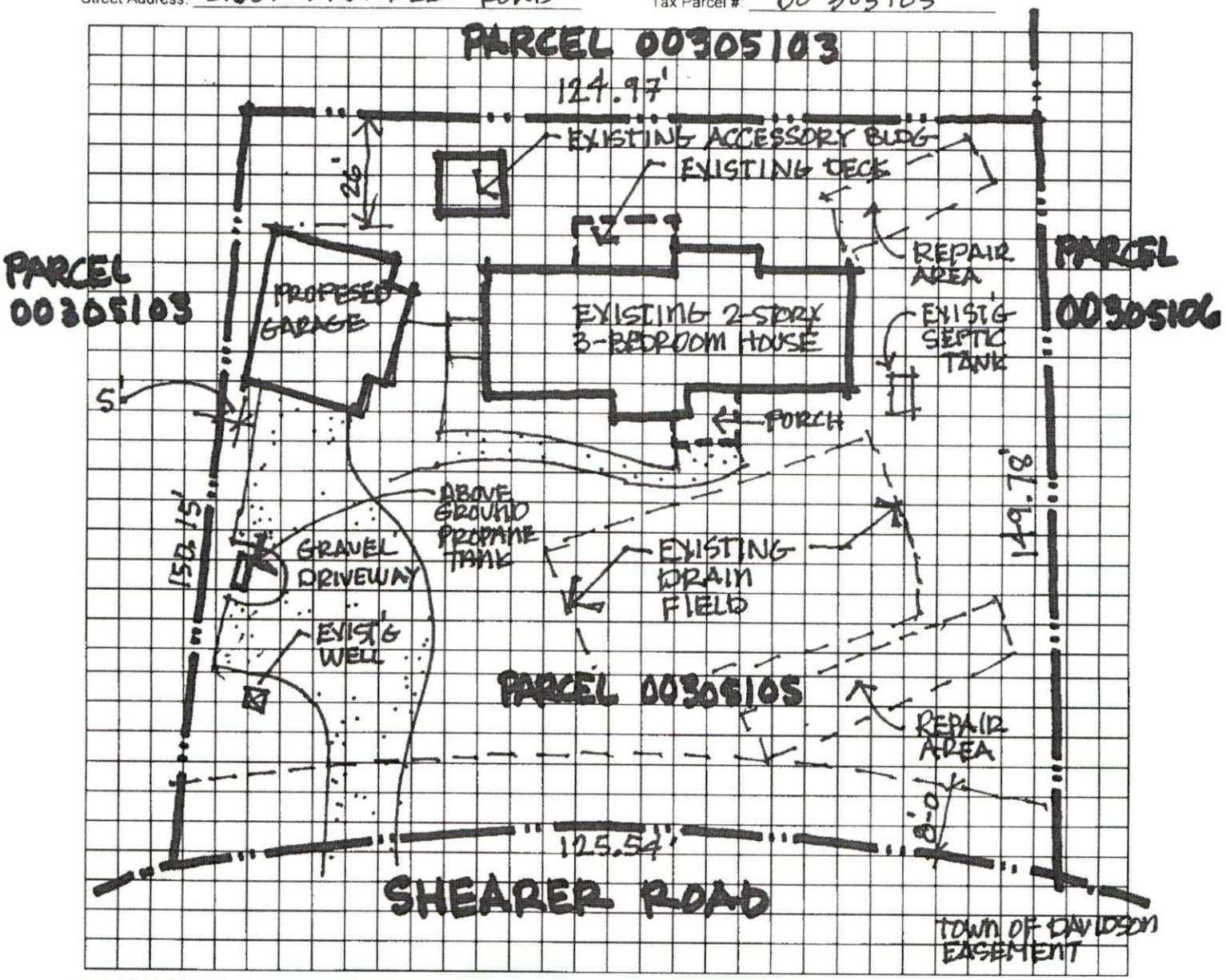
Revised on: 01/03/11

File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 21601 SHEARER ROAD Tax Parcel #: 00 305105



*The undersigned, an authorized agent of the Mecklenburg County Health Department, certifies that the Department has approved the Request for the "Job Location" contained in this document. This approval is granted in accordance with the provisions of Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal and Water Supply Wells in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an installation, construction, alteration and/or repair approval is granted by this Department.
- This permit is not transferable.
- Addition/Renovation approval valid 1 year from issuance date
- Mobile home exchange approval valid 6 months from issuance date

Detached garage project approved >25' from well & meets set back off existing drainfield & repair area

REHS Signature Date

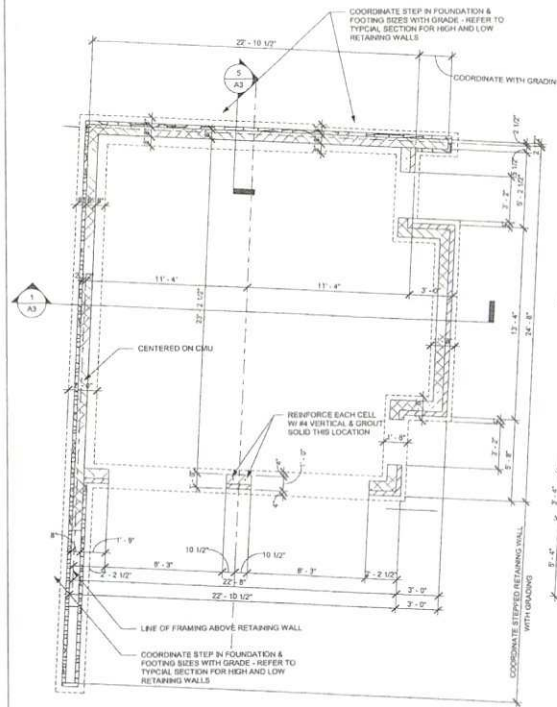
Kim Janet 9/21/23

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

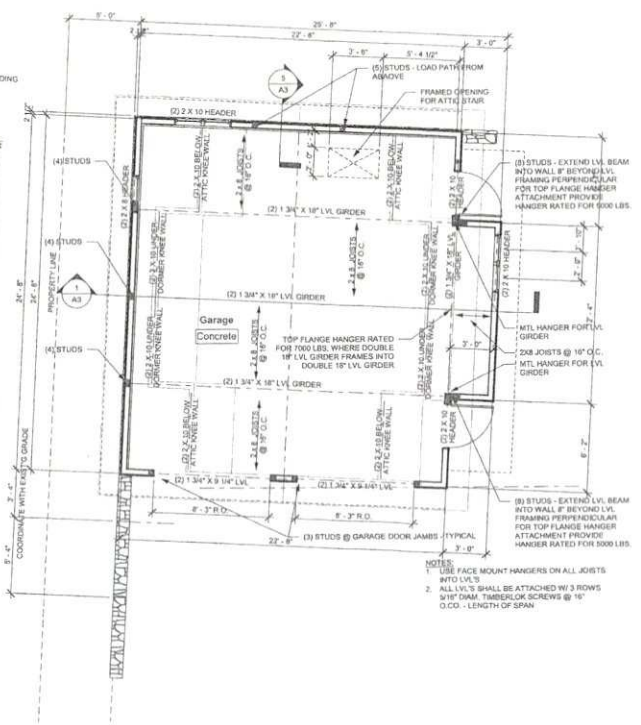
Revised on: 01/03/11

Structural General Notes:

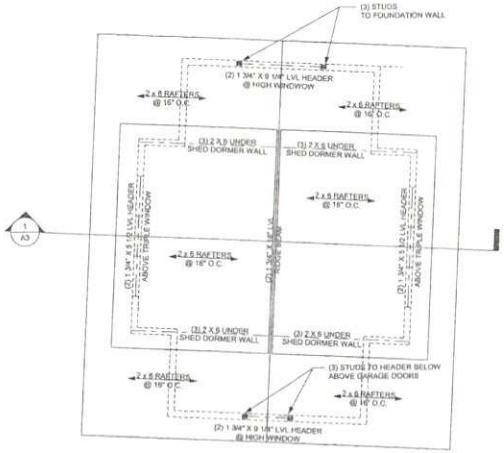
1. **General**
   a. All construction shall conform to the current International Building Code or International Residential Code, or the current edition of the North Carolina State Building Code, whichever is applicable.
   b. These notes shall apply except where indicated otherwise by drawings or specifications. A detail shown for one condition shall apply to all like and similar conditions.
   c. The contractor is solely responsible for the design and adequacy of the erection bracing, shoring, temporary supports and all other means, methods techniques, sequences, and procedures of construction.
2. **Soil and Foundation**
   a. The allowable soil bearing pressure is assumed to be 2000 psf. If after evaluation, the conditions indicate a soil bearing pressure less than 2000 psf, the engineer shall be notified to redesign the footings.
   b. All footings shall bear on undisturbed soil when possible. If structural fill is required, it shall be mechanically compacted in maximum 8-inch un-compacted lifts to 95% of standard proctor.
   c. All soil containing organic material shall be removed and replaced with structural fill as noted in 6-b above.
   d. Backfill against walls shall be placed evenly against both sides of the wall until the lower finished grade is reached. Walls shall be braced laterally temporarily until backfill operations are complete. For basement walls, backfill shall not be placed until the floor framing above has been installed and connected to the top of the wall.
   e. Continuous wall footings shall be minimum size as required by code.
   f. Slabs on grade shall be 4 inch minimum thickness and shall be reinforced with 6x6 - w1.4 x w1.4 welded wire fabric 1-inch from the top of the slab - U.N.O.
3. **Reinforced Concrete**
   a. All concrete placement shall conform to the latest version of ACI 301, *Specifications for Structural Concrete for Buildings*.
   b. All concrete shall be normal weight 3000 psi compressive strength after 28 days unless noted otherwise. Concrete shall be placed with a slump between 3" and 6-inches. Concrete exposed to the weather shall contain 4 to 6 percent entrained air by volume.
   c. Construction or control joints shall be provided in slabs on grade so that the maximum area between joints shall be 400 square feet with the length not more than 1-1/2 times the width.
   d. Place vertical control joints in basement and retaining walls at 20'-0 on center maximum using ¾-inch deep V-chamfered joints on both faces. Construction joints shall fall on control joints and shall be keyed. Half of all specified horizontal reinforcing shall be interrupted at control joints.
   e. Reinforcing bars shall conform to ASTM A615 grade 60 and shall be detailed in conformance with the latest version of ACI SP-66.
   f. Provide corner bars at all corners and intersections of footings, beams and walls.
   g. Reinforcing bars indicated as continuous shall have class "B" tension laps (25 inches for #5 bars)
   h. Reinforcing steel shall have the following concrete cover unless noted otherwise:
   i. Concrete against earth (not formed) = 3-inches
   ii. Formed concrete exposed to earth or weather = 1-1/2 inches
   iii. Concrete slabs and walls not exposed to weather = 1-inch
4. **Masonry**
   a. Concrete masonry design and construction shall conform to requirements of the latest version of ACI 530 *Concrete Masonry Structures*
   b. Concrete masonry units (CMU) shall be lightweight hollow load-bearing ASTM C90 grade N with a net strength of 2000 psi on net cross-sectional area of CMU determined in accordance with ASTM C140.
   c. Mortar shall comply with ASTM C270, type M or S. Standard mortar bed joint thickness shall be 3/8 inch and in no cases shall exceed 5/8 inches in thickness.
   d. CMU shall be laid in running bond unless noted otherwise.
   e. Provide ladder-type horizontal joint reinforcing complying with ASTM A82, zinc-coated #9 gauge placed 16 inches on center unless noted otherwise. Horizontal joints shall be lapped 12-inches minimum.
   f. Where walls are to be grouted solid, the maximum lift height shall be 5'-0 in height for CMU less then 8 inches, and 12'-0 for CMU 8 inches or greater. Grout shall be placed in accordance with ACI 530.1 section 3.5E. Grouted walls greater than 5'-0 in height shall have inspection holes at the base of the wall.
   g. Lap vertical reinforcing bars 50 times the bar diameter (24 inches for #4 bars.)
   h. Vertical control joints shall be placed in all CMU walls not retaining earth and shall be located a dimension 3 times the wall height on center but not more than 50 feet on center nor less than 25 feet on center.
   i. Provide minimum 1 #5 vertical rebar grouted full-height at each side of openings and at all ends and corners of walls.
5. **Structural Wood**
   a. Lumber specified for joists, headers and beams shall be #2 SPF unless noted otherwise
   b. Structural sheathing shall be APA Rated Sheathing, 7/16" minimum thickness.
   c. All studs shall be #2 Spruce-Pine-Fir (SPF) unless noted otherwise.
   d. All door headers shall be (2) 2x8 #2 SPF unless noted otherwise.
   e. All headers and beams shall be supported on each end by 2-2x4 studs minimum unless noted otherwise.
   f. Nailed Built-up Columns - Multiple studs (i.e. 3-2x4 studs) shall be laminated using 0.120" x 3" long nails @ 6 inches on center staggered between all adjacent stud members.
   g. All glulam beams shall be designated 24F-V4 unless noted otherwise.
   h. All Laminated Veneer Lumber (LVL) shall be minimum 2.0 E, Fb=2900 psi. Multiple LVL laminations shall be connected according to manufacturer recommendations.
   i. All wood fastenings shall conform to the latest edition of the National Design Specification (NDS) by ANSI/AF&PA.
   j. All specified nails are common nails unless noted otherwise. Nails substituted for specified common nails shall be of the same minimum shank length and trunk diameter of those specified in the construction documents.
   k. All exterior decks shall conform to the latest edition of the NC Residential Code - Appendix M
6. **Structural Steel**
   a. Structural steel detailing, fabrication, and erection shall be in accordance with the latest edition of the AISC Steel Construction Manual.
   b. Structural steel shall conform to ASTM A-36. Cold-formed, welded and seamless carbon steel structural tubing in rounds and in shapes shall conform to ASTM A-500, grade B.
   c. All bolts shall be ASTM A-325 with the threads excluded from the shear-plane. Bolted connections shall be assemblies in accordance with AISC specifications, *Structural Joints using ASTM A325 or ASTM A490 Bolts*.
   d. Steel pipe shall conform to ASTM A53, type E or S, grade B.
   e. Anchor bolts shall conform to ASTM A36
7. **Structural Design Loads**
   a.Gravity loads:
   i.Roof:
      1.Live load (construction) = 20 PSF.
      2.Dead load = 20 PSF.
   ii.Floor:
      1.Balconies and Decks = 40 PSF.
      2.Uninhabitable attics without storage = 10 PSF.
      3.Uninhabitable attics with limited storage = 20 PSF.
      4.Habitable attics and sleeping areas = 30 PSF.
      5.Stairs = 40
      6.All other areas = 40 PSF.
   b.Wind and seismic loads shall be per the latest edition of ASCE 7, *Minimum Design Loads for Buildings and Other Structures*
8. **Wall Bracing** – lateral bracing of walls on this addition are engineered to exceed the prescriptive wall bracing requirements for the North Carolina State Residential Code. All exterior walls are to be continuously sheathed with 7/16-inch minimum thickness wood structural panel fastened to wall framing using 8d common nails at 4-inches on center at edges and 12 inches on center at all intermediate supports. All horizontal edges of wall sheathing panels that are not supported by framing shall be blocked unless noted otherwise.
9. **Sealed Crawlspace** - Sealed crawlspace as follows:
   A.



1 Foundation Plan
1/4" = 1'-0"



2 1st. Floor - Framing Plan
1/4" = 1'-0"



3 Roof Plan
1/4" = 1'-0"

Dave Malushizky, RA

DAVID P. MALUSHIZKY
REGISTERED ARCHITECT
5199
NORTH CAROLINA
CHARLOTTE, N.C.

PROJECT DESCRIPTION

Malushizky Garage
21601 Shearer Road

The Professional Architect seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents constituting this and other sheets prepared by this architect, and the architect expressly disclaims any and all responsibility for such other drawings or documents not exhibiting this seal.

This drawing and sketches are the sole property of the architect and may be used for this specific project only. It shall not be loaned, copied or reproduced, in whole or part, or for any other purpose or project without the written consent of the architect.

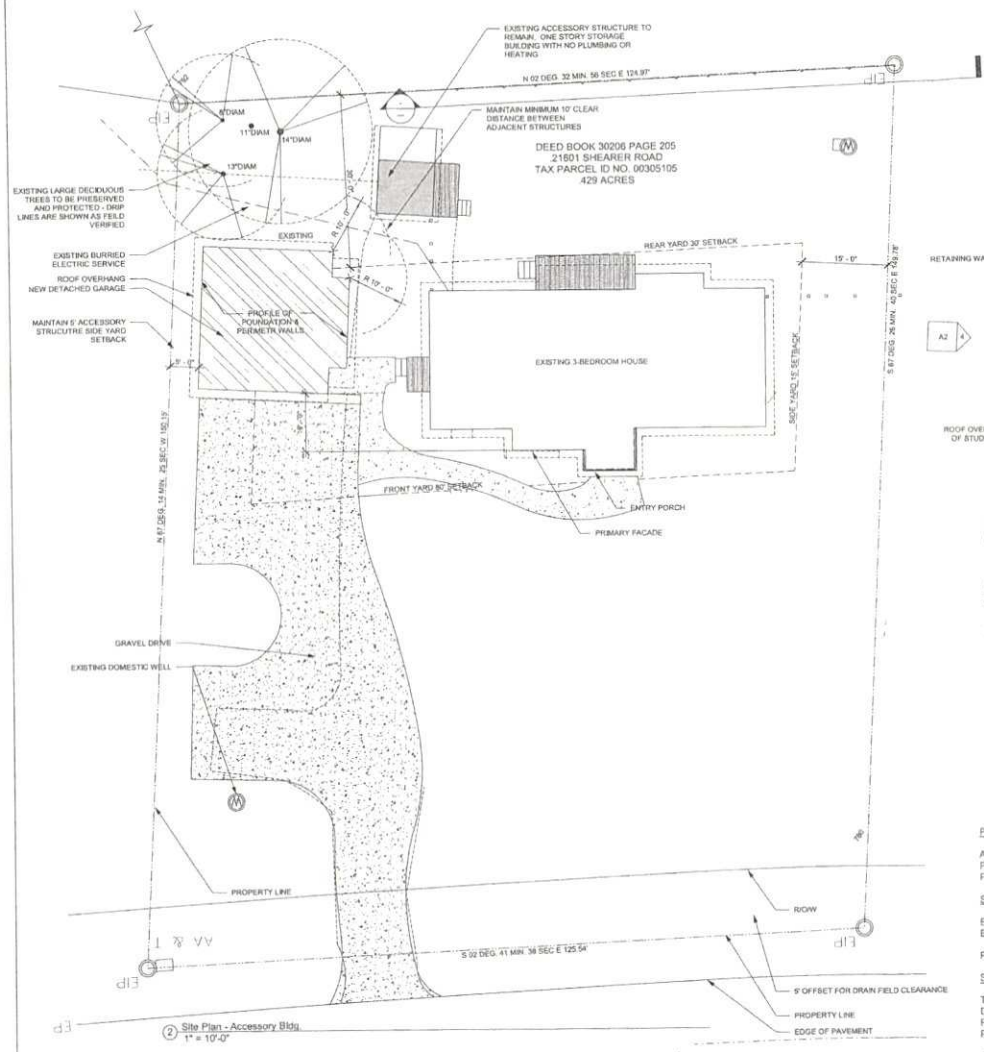
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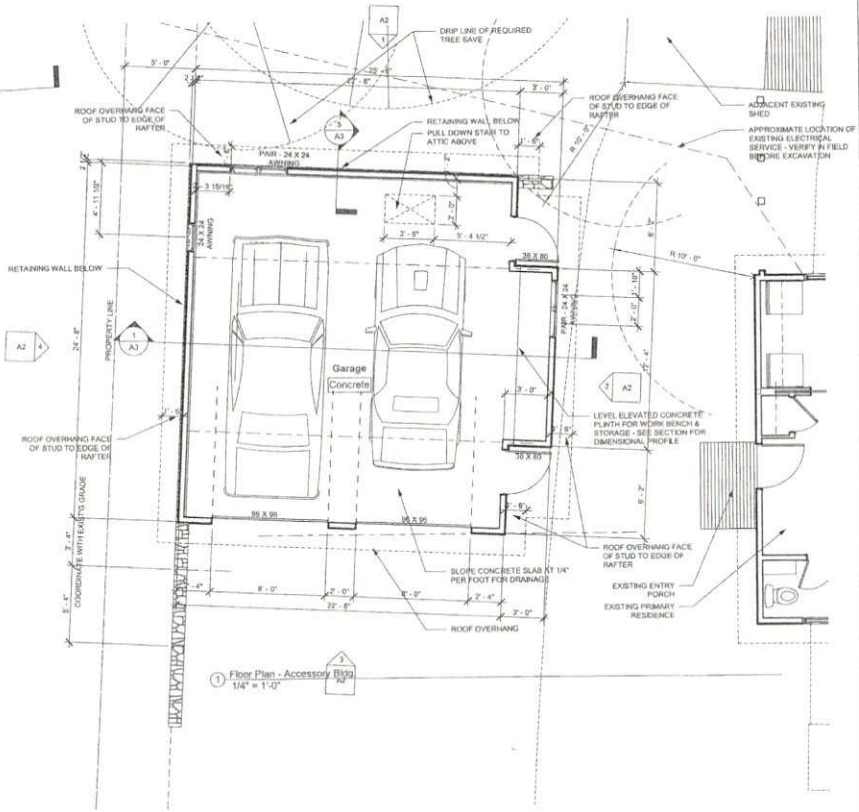
Sheet Title

Structural Drawings

Project Number: N/A
Drawn By:
Checked By:
Issue Date:

Sheet Number: S1





PROJECT INFORMATION:

ADDRESS:	21601 SHEARER ROAD
PARCEL #	00305105
PLANNING AREA	RURAL PLANNING AREA

SQUARE FOOTAGE SUMMARY:

EXISTING HEATED SF (PRIMARY RESIDENCE)	3,349 SF
EXISTING ACCESSORY STRUCTURE	20 SF
PROPOSED DETACHED GARAGE	601 SF

SETBACKS:

THE PROPOSED SITE PLAN WAS REVIEWED BY PLANNING STAFF IN NOVEMBER OF 2022, PRIOR TO THIS SUBMITTAL, TO CONSIDER THE EXISTING LARGE DECIDUOUS TREES WHICH WOULD NEED TO BE REMOVED TO ALLOW THE PROPOSED ACCESSORY STRUCTURE TO BE LOCATED IN COMPLIANCE WITH THE REAR SETBACK. AN EXCEPTION IS BEING GRANTED TO ALLOW THE STRUCTURE TO BE PLACED AS CLOSE TO THE DRIP LINE OF THE EXISTING TREES AS POSSIBLE BUT NOT ACCORDING TO THE 5' REAR SETBACK OUTLINED IN THE ORDINANCE.

THE LOCATION OF THE (4) EXISTING TREES AND ASSOCIATED DRIP LINES HAS BEEN FIELD MEASURED AND SHOWN ON THE SITE PLAN. THE GARAGE IS DESIGNED TO BE SET BACK A MINIMUM OF 10' FROM THE FRONT FACE OF THE PRIMARY STRUCTURE

Dave Malushizky, RA

DAVID P. MALUSHIZKY REGISTERED ARCHITECT 6193 CHARLOTTE, N.C.

July 22, 2023

PROJECT DESCRIPTION

Malushizky Garage
21601 Shearer Road

The Professional Architects are allowed to use these specifications for the material and construction shown. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by the architect, and the architect expressly disclaims any and all responsibility for such other drawings or documents not exhibiting this seal.

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No.	Description	Date

Sheet Title

Site Plan, Floor plan & Building Section

Project Number: N/A
Date: DFM

Sheet Number: A1

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	09/19/23	**Amount:**	100.00
Receipt #:	144451	**Tendered:**	100.00
Check / Auth #:	VISA 021632	**Returned:**	0.00
Received By:	ALVARJS		

Account Information

Account #: 200000
Contractor: DAVID MALUNSHIZKY
Attn:
Address:
Address:
City/State/Zip: ,

Item	Description	Permit#	Quantity	Unit Price	Total Price
0705	Use Existing System 21601 SHEARER RD		1	100.00	100.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
				555.00	