SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

SESSION LAW A2

IP/CA Combo

File Number: 11992B /#14791

Assigned Inspector: Heather

☑ IP & CA $180: 5/24/24 UP Initial/Date

☑ OP $200: 5/24/24 UP Initial/Date

> See files 11939 B & 11940 B

☒ Floor plans reviewed

☒ Approve as Noted in Winchester → No building permit applied for as of 7/18/24

☒ Septic file complete: 11/20/25

☒ Release final hold in Winchester: 11/20/25 - UP

Comments:

Reginal 704. 615.0080

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

813 Davidson Dr NW
SFSConcordNC@gmail.com
SoilAndForestryServices.com

Thank you for choosing us to design your septic system.

This design packet contains everything you will need to get your septic permit and can be used for obtaining quotes from septic installers.

Please print the packet and sign the cover page and the Application for Services page.

You will need to visit your county environmental services department and complete any applications they require along with paying any necessary fees for permitting.

Sincerely,

Soil & Forestry Services of the Carolinas, PA

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

6/25/2024

Mecklenburg Groundwater & Wastewater Services
Attn: Jeremy Michelone
3205 Freedom Dr., Suite 8000
Charlotte, NC 28208

Re: Improvement Permit & CA Submittal for 5200 Mount Holly-Huntersville Road

Mr. Michelone,

Attached please find sealed soil notes as well as site plans and design related data for a 6 bedroom ACCEPTED system using GRAVITY distribution.

"The LSS evaluation attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6)."

Owner/Applicant: Reginald Murray // M & W DEVELOPERS LLC

Signature: Reginald Murray

Date: 7/8/24

"The LSS Evaluation is being submitted pursuant to and meets requirements of GS 130A-335(a2)." This Improvement Permit is issued pursuant to G.S. 130A-335(a2),(a3), and (a4) using the signed and sealed LSS evaluation attached here". "This AOWE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)"

"This Construction Authorization is issued pursuant to G.S. 130A-335 (a2), and (a5) and (a6) using the signed and sealed plans or evaluations attached here."

Wendell Overby LSS, 980-439-5007

Signature: Wendell Overby

Date: 6/25/2024 Seal:





NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submited in accordance with G.S. 130A-335(a2), (a3), and (a5).
[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:

[X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] (a2) Repair/Construction Authorization

If applying for a Construction Authorization, please indicate desired system type(s):

[X] Accepted [ ] Conventional [ ] Innovative [ ] Other _____ [ ] Any

[X] New Construction [ ] Expansion [ ] System Relocation [ ] Change of Use [ ] Repair

[X] 5 Year Expiration Requested (site plan provided) [ ] Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)

Requesting DHHS review? (systems >3000 GPD or IPWW) [ ] Yes [X] No

Applicant:	Wendell Overby, LSS // Soil & Forestry Services, PA	Owner:	Reginald Murray // M & W DEVELOPERS LLC
Mailing Address:	Concord	Mailing Address:	PO BOX 681782
City:	Concord	City:	Charlotte
State:	North Carolina	State:	North Carolina
Zip:	28025	Zip:	28216
Phone #:	SFSConcordNC@gmail.com	Phone #:	7046150080
Email:	813 Davidson Dr NW	Email:	duckduckgoosekids@gmail.com

If the answer to any of the following questions is "yes", applicant must attach supporting documentation.

[ ] Yes	[X] No	Does the site contain any jurisdictional wetlands?
[ ] Yes	[X] No	Is any wastewater going to be generated on the site other than domestic sewage?
[ ] Yes	[X] No	Is the site subject to approval by any other public agency?
[X] Yes	[ ] No	Are there any easements or right of ways on this property?

I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. ***I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.***

Applicant Signature: Wendell Overby Date: 6/25/2024

Owner's Signature: Reginald Murray Date: 7/8/24

Permit/File #: 119398

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Submittal Includes; [X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] Fee $ _____

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Mecklenburg

PIN/Lot Identifier: 03306518

Issued To: Reginald Murray // M & W DEVELOPERS LLC

Property Location: 5200 Mount Holly-Huntersville Road

Subdivision (if applicable): N/A Lot#: N/A Block: _____ Section: _____

LSS Report Provided: Yes [X] No [ ]

If yes, name and license number of LSS: Wendell Overby #1218

New [X] Expansion [ ] System Relocation [ ] Change of Use [ ]

Facility Type: 6 bedroom house

Number of bedrooms: 6 Number of Occupants: 12 Other: _____

Design Wastewater Strength: [X] Domestic [ ] High Strength [ ] Industrial Process Wastewater

Proposed Design Daily Flow: 720 GPD Proposed LTAR (Initial): 0.25 Proposed LTAR (Repair): 0.275

Proposed Wastewater System Type*: IIb (ACCEPTED) GRAVITY (Initial) Pump Required: [ ] Yes [X] No [ ] May be required

Proposed Wastewater System Type*: IIIbg (ACCEPTED) PMANIFOLD (Repair) Pump Required: [X] Yes [ ] No [ ] May be required

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Effluent Standard: [X] DSE [ ] HSE [ ] NSF/ANSI 40 [ ] TS-I [ ] TS-II [ ] RCW

Saprolite System (Initial): [ ] Yes [X] No Saprolite System (Repair): [ ] Yes [X] No

Fill System (Initial): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)*: 48 Usable Depth to LC (Repair)*: 48 ** Limiting Condition*

Max. Trench Depth (Initial)ǂ: 34 Max. Trench Depth (Repair)ǂ: 34 *ǂ Measured on the downhill side of the trench*

Artificial Drainage Required: [ ] Yes [X] No If yes, please specify details: _____

Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other: _____

Drainfield location meets requirements of Rule .0508: Yes [X] No [ ] Drainfield location meets requirements of Rule .0601: Yes [X] No [ ]

Permit valid for: [X] Five years [site plan submitted pursuant to GS 130A-334(13a)] [ ] No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Proposed septic areas are to remain undisturbed (no grading, no utilities installation)

Proposed septic areas should be fenced/protected from disturbance (vehicle traffic, debris, etc...)

See Design for any additional details

Licensed Soil Scientist Print Name: Wendell Overby, LSS

Licensed Soil Scientist Signature: Wendell Overby Date: 6/25/2024

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NCDHHS

Permit/File #: 119398

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Mecklenburg — Pre-Construction Conference Required: [ ] Yes [X] No

PIN/Lot Identifier: 03306518

Issued To: Reginald Murray // M & W DEVELOPERS LLC

Property Location: 5200 Mount Holly-Huntersville Road

AOWE/PE Plans/Evaluations Provided: Yes [X] No [ ] If yes, name and license number of AOWE/PE: Wendell Overby #10044E

Facility Type: 6 bedroom house

Number of bedrooms: 6 Number of Occupants: 12 Other:

[X] New [ ] Expansion [ ] Repair [ ] System Relocation [ ] Change of Use

Basement? [ ] Yes [X] No Basement Fixtures? [ ] Yes [ ] No

Crawl Space? [X] Yes [ ] No Slab Foundation? [ ] Yes [X] No

Type of Wastewater System* IIb (ACCEPTED) GRAVITY (Initial) IIIbg (ACCEPTED) PMANIFOLD (Repair)

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Design Daily Flow: 720 GPD Wastewater Strength: [X] Domestic [ ] High Strength [ ] Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? [ ] Yes [X] No
(if yes, please provide engineering documentation)

Effluent Standard: [X] DSE [ ] HSE [ ] NSF/ANSI 40 [ ] TS-I [ ] TS-II [ ] RCW

Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other:

Installation Requirements/Conditions

Septic Tank Size: 1500 gallons Total Trench/Bed Length: 720 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: 0.25 gpd/ft² Usable Depth to LC (Initial)*: 48 *Limiting condition

Soil Cover: 22 inches Slope Adjusted Maximum Trench/Bed Depth‡: 34 inches *‡ Measured on the downhill side of the trench*

Pump Tank Size (if applicable): N/A gallons Requires more than 1 pump? [ ] Yes [X] No

Pump Requirements: N/A ft. TDH vs. N/A GPM Grease Trap Size (if applicable): gallons

Distribution Method: [X] Serial [ ] D-Box or Parallel [ ] Pressure manifold(s) [ ] LPP [ ] Other

Artificial Drainage Required: Yes [ ] No [X] If yes, please specify details:

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.0204(g)]: [ ] Yes [X] No Declaration of Restrictive Covenants: [ ] Yes [X] No

Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: [ ] Yes [X] No

Management Entity Required: Yes [ ] No [X] Minimum O&M Requirements:

Permit conditions:

Proposed septic areas are to remain undisturbed (no grading, no utilities installation)

Proposed septic areas should be fenced/protected from disturbance (vehicle traffic, debris, etc...)

See Design for any additional details

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. *This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.* The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

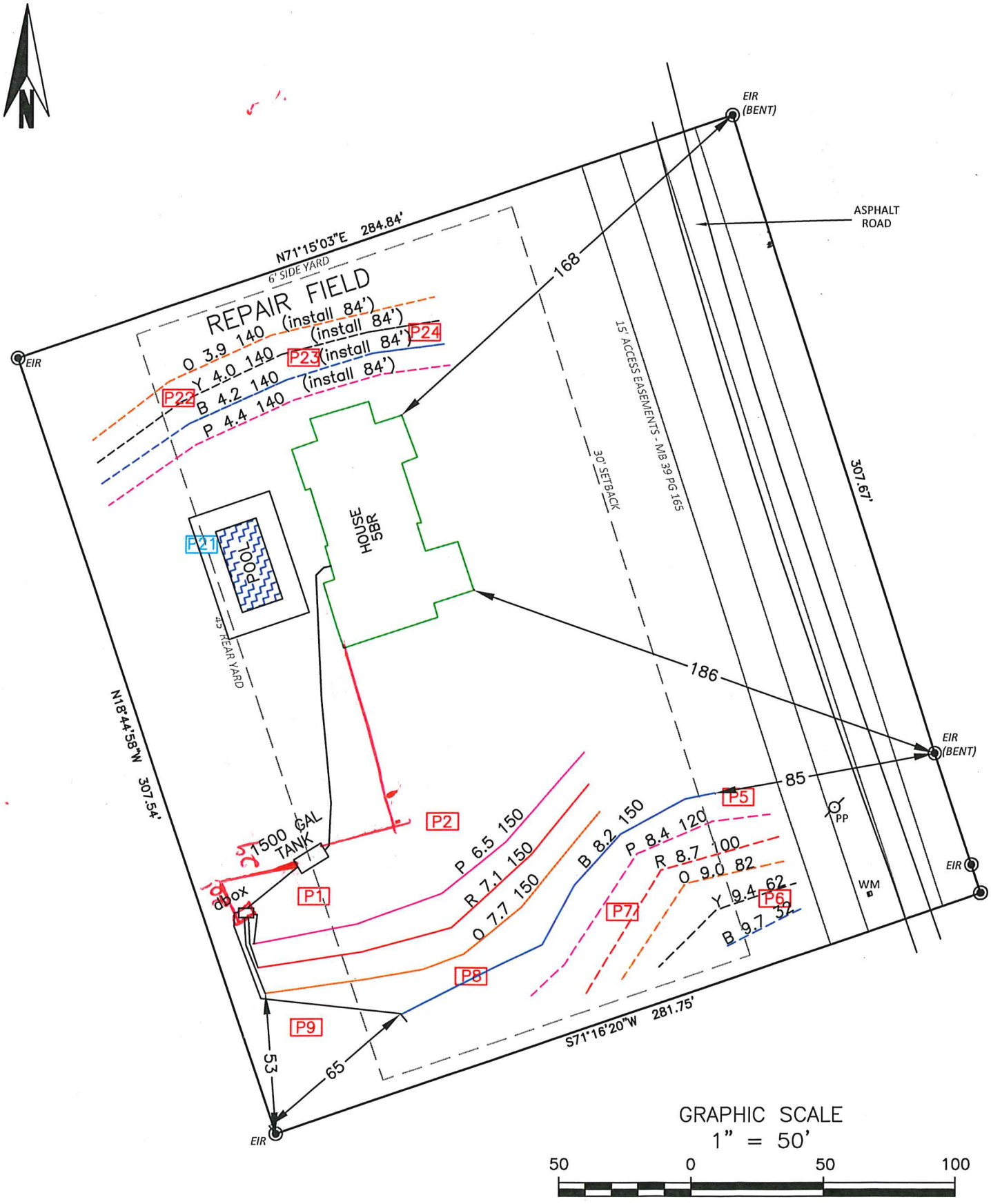
AOWE/PE Print name: Wendell Overby, LSS Expiration Date: 6/25/2029

AOWE/PE Signature: Wendell Overby Date: 6/25/2024

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

SHEET	SHEET TITLE:	PROJECT NAME:			SCALE	FIELD WORK	DRAWN BY	PROJECT MGR.	PROJECT NO.
	SEPTIC SYSTEM LAYOUT SKETCH MAP	MURRAY MT HOLLY HUNTERSVILLE LOT 5B MECKLENBURG COUNTY OCT 2025	SOIL & FORESTRY SERVICES OF THE CAROLINAS, PA	Soil & Forestry Services of the Carolinas, PA 813 Davidson Dr NW Concord NC 28025 usablesoil@gmail.com 980-439-5007 soilandforestryservices.com	1" = 50'	WO	WO	WO	24-1034



SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

SFSConcordNC@gmail.com
980-439-5007
813 Davidson Dr NW
Concord 28025, NC
SoilAndForestryServices.com

Project# 24-1034

Septic System Design for a 6 Bedroom House
ACCEPTED using GRAVITY distribution
Site location: 5200 Mount Holly-Huntersville Road, Lot # N/A

Contents	**Page**
Information for the Installer	1
Design Specifications	2
Layout Specifications	3
Site Plan	4
Floor Plans	5-6
Calculations	7
Soil Descriptions	8-9
Health Dept Use Only Blank Forms	10-12

Jun 2024
Design By: Wendell Overby

ACCEPTED using GRAVITY distribution
Site location: 5200 Mount Holly-Huntersville Road, Lot # N/A

* **CALL 811 BEFORE DIGGING**
* The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
* Tanks shall be approved by DHHS, and certification supplied by the that must be considered along with all other considerations.
* The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
* The supply trench shall be compacted to eliminate cavities left during initial fill placement.
* Installation of the system shall be during dry conditions in order to protect the soil
* All fittings shall be pressure rated fittings.
* All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
* Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
* Trenches shall be carefully excavated so the bottom is within 2" from the highest to the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
* All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
* All tanks shall be properly back filled and compacted to prevent slump at a later date.
* Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
* No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used.
* Elevations at pinflag locations should be checked by the installer prior to beginning
* Septic tank riser shall be a minimum of 6" above finished grade.

* **System specified as ACCEPTED type using GRAVITY distribution**
* **Repair specified as ACCEPTED type using PMANIFOLD distribution**
* **System trench depth specified at 34"**
* **System trenches installed on 9' minimum; 36" wide trenches**
* **Installation does not require a soil cap**
* **Basement is unfinished (no plumbing)**

Page 2	DESIGN SPECIFICATIONS	Project #24-1034

ACCEPTED using GRAVITY distribution
Site location: 5200 Mount Holly-Huntersville Road, Lot # N/A

Business (if applicable):	M & W DEVELOPERS LLC
Contact:	Reginald Murray
Phone:	7046150080
Email:	duckduckgoosekids@gmail.com
County:	Mecklenburg
Location:	5200 Mount Holly-Huntersville Road

Source of Wastewater Flow:	6	bedroom home
Estimated Daily Wastewater Production:	720	gpd
Drain field Size:	720	lf
Loading Rate:	0.25	gpd/ft.^{2}
Trench Depth:	34	in
Trench Width:	36	in
Soil Cap:	0	in
Septic Tank Size:	1500	gal

ACCEPTED using GRAVITY distribution
Site location: 5200 Mount Holly-Huntersville Road, Lot # N/A

Daily Flow (gpd) 720 **Jun 2024**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM		0.0			100.0		
INSTR. 1			100.0				
			SYSTEM				
1	Blue			9.7	90.3	225	120
2	Pink			8.4	91.6	222	120
3	Red			7.1	92.9	226	120
4	Orange			7.7	92.3	203	120
5	Blue			8.2	91.8	138	120
6	Pink			8.4	91.6	222	120
7	Red		Extra	8.7	91.3	100	0
8	Orange		Extra	9.0	91.0	82	0
9	Yellow		Extra	9.4	90.6	62	0
10	Blue		Extra	9.7	90.3	32	0
			REPAIR				
1	Yellow			3.4	96.6	44	44
2	Blue			4.3	95.7	84	84
3	Pink			5.0	95.0	88	88
4	Red			6.1	93.9	64	64
5	Orange			6.8	93.2	64	64
6	Yellow			7.5	92.5	85	80
7	Blue			8.0	92.0	72	44
8	Pink			8.3	91.7	73	68
9	Red			8.6	91.4	64	60
10	Orange			9.0	91.0	60	60

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH	SOIL CAP
SYSTEM	720	0.250	ACCEPTED	25%	GRAVITY	34	0
REPAIR	656	0.275	ACCEPTED	25%	PMANIFOLD	34	0

Notes:
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings

FOR REGISTRATION JUDITH A GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2003 MAR 04 09 19 AM
BOOK 39 PAGE 165-166 FEE $21 00
INSTRUMENT # 2003043764



JUDITH A. GIBSON
REGISTER OF DEEDS , MECKLENBURG COUNTY
COUNTY & COURTS OFFICE BUILDING
720 EAST FOURTH STREET
CHARLOTTE NC 28202

****

Filed For Registration: 03/04/2003 09:19 AM

Book: MAP 39 Page: 165-166

Document No.: 2003043764

MAP 2 PGS $21.00

Recorder: MARILYN SMITH



2003043764

CALCULATIONS	Project #24-1034

ACCEPTED using GRAVITY distribution
Site location: 5200 Mount Holly-Huntersville Road, Lot # N/A

PROJECT INFO	Designer	Wendell Overby
	Project #	24-1034
	Project MM YYYY	Jun 2024
	County	Mecklenburg
	Project Location	5200 Mount Holly-Huntersville Road
	Lot # (if applicable)	N/A
	Subdivision (if applicable)	N/A
	Parcel #	03306518
	Lot size (acres)	2
	Easement(s) on parcel?	Yes
	Business (if applicable)	M & W DEVELOPERS LLC
	Name (Owner)	Reginald Murray
	Mailing Address (Owner)	PO BOX 681782
	City (Owner)	Charlotte
	State (Owner)	North Carolina
	Zip (Owner)	28216
	Phone (Owner)	7046150080
	Email (Owner)	duckduckgoosekids@gmail.com
	Bedrooms	6
	Water Source	Municipal Supply
	Foundation Type	Crawl Space
	Daily Flow (gallons)	720
SYSTEM	System LTAR	0.25
	System Type	ACCEPTED
	System Distribution	GRAVITY
	System Trench Center Distance (feet)	9
	System Trench Width (inches)	36
	System Trench Depth (inches)	34
	Soil Cap (inches)	0
	Usable Soil Depth (inches)	48
	Media Height (inches)	12
	Tank Size (gallons)	1500
	Required Feet of Line (system)	720
	Designed Feet of Line (system)	720
	Saprolite system?	No
REPAIR	Repair LTAR	0.275
	Repair Type	ACCEPTED
	Repair Distribution	PMANIFOLD
	Repair Trench Center Distance (feet)	9
	Repair Trench Width (inches)	36
	Repair Trench Depth (inches)	34
	Soil Cap (inches)	0
	Usable Soil Depth (inches)	48
	Tank Size (gallons)	1500
	Required Feet of Line (repair)	655
	Designed Feet of Line (repair)	656
	Saprolite system?	No

PROPERTY ID #: 03306518
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(complete all fields in full)

OWNER: Reginald Murray // M & W DEVELOPERS LLC
ADDRESS: PO BOX 681782
PROPOSED FACILITY: 6 bedroom house
LOCATION OF SITE: 5200 Mount Holly-Huntersville Road

APPLICATION DATE:
DATE EVALUATED: 3/27/2024
PROPERTY SIZE: 2 acres
PROPERTY RECORDED:

WATER SUPPLY: ☐ Private ☐ Well ☐ Spring ☑ Other — Municipal Supply

EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut

TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR CLASS	.1944 RESTR HORIZ	
1	L / 5%	0 - 12	DB L WFG	FR SS SP	N/A	50	N/A	N/A	0.25-0.275
		12 - 50	R C WFS	FR S SP					
2	L / 5%	0 - 10	B SCL WFG	FR SS SP	N/A	48	N/A	N/A	0.25-0.275
		10 - 36	R C WMS	FR SS SP					
		36 - 48	R SCL WMS	FR SS SP F SAP C YB MOT					
3	L / 5%	0 - 10	DB L WFG	FR SS SP	N/A	50	N/A	N/A	0.25
		10 - 19	BR SC WMS	FR SS SP					
		19 - 30	YR C WMS	FR S P					
		30 - 36	YR C WMA	FR SS SP F SAP C WBY MOT					
		36 - 50	YB CL WMA	FR SS SP RK					
4	L / 5%	0 - 12	DB CL WFG	FR SS SP	N/A	48	N/A	N/A	0.275
		12 - 43	BR C WMS	FR S P					
		43 - 48	YB CL WMS	FR SS SP C SAP					
5	L / 2%	0 - 13	B SCL WFG	FR SS SP	N/A	54	N/A	N/A	0.25-0.275
		13 - 35	BR C WMS	FR S P					
		35 - 54	YR C WMS	FR SS P F SAP F YB MOT					
6	L / 3%	0 - 12	B SCL WFG	FR SS SP	N/A	52	N/A	N/A	0.25-0.275
		12 - 40	BR C WMS	FR S P					
		40 - 52	RB CL WFG	FR SS P YB MOT					
7	L / 3%	0 - 8	B SCL WFG	FR SS SP	2CH38	38	N/A	N/A	0.25-0.275
		8 - 33	BR SC WMS	FR SS SP					
		33 - 50	BR SC SCL WMS	FI SS SP FC SAP					
8	L / 6%	0 - 7	B SCL WFG	FR SS SP	N/A	48	N/A	N/A	0.25-0.275
		7 - 30	BR SCL WMS	FR SS SP					
		30 - 48	BR SCL WFS	FR SS SP FC SAP					
9	L / 7%	0 - 13	DB L WFG	FR SS SP	N/A	50	N/A	N/A	0.25-0.275
		13 - 20	B SC WFS	FR SS SP					
		20 - 42	RB C WMS	FR S P					
		42 - 50	BR SCL WMS	FR S P DB BK MOT C SAP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	720	656
System Types(s)	ACCEPTED	ACCEPTED
Site LTAR	0.25	0.275

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): S
EVALUATED BY: Wendell Overby
OTHER PERSON(S) PRESENT:

LICENSED SOIL SCIENTIST — WENDELL OVERBY — 1215 — N.C. NORTH CAROLINA

COMMENTS:

PROPERTY ID #: 03306518
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(complete all fields in full)

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR CLASS	.1944 RESTR HORIZ	
10	L / 6%	0 - 7 7 - 33 33 - 48	B L WFG BR C WMS R C WMS	FR SS SP FR SS SP FR SS SP FC SAP	N/A	48	N/A	N/A	0.3
11	L / 8%	0 - 9 9 - 37 37 - 48	B L WFG BR C WMS R CL WMS	FR SS SP FR SS SP FR SS SP	N/A	48	N/A	N/A	0.3
12	L / 12%	0 - 13 13 - 48	B L WFG RB C WFS	FR SS SP FR S SP	N/A	48	N/A	N/A	0.3
13	L / 10%	0 - 17 17 - 48	B L WFG BR C WMS	FR SS SP FR SS SP	N/A	48	N/A	N/A	0.275-0.3
14	L / 10%	0 - 7 7 - 28 28 - 48	B L WFG BR C WMS BR CL WFS	FR SS SP FR SS SP FR SS SP	N/A	48	N/A	N/A	0.3
15	L / 10%	0 - 8 8 - 48	B L WFG BR CL WFS	FR SS SP FR SS SP FC SAP	N/A	48	N/A	N/A	0.3
16	L / 4%	0 - 9 9 - 30 30 - 48	B SCL WFG RB C WFS BR CL WMS	FR SS SP FR SS SP FR SS SP FC SAP	N/A	48	N/A	N/A	0.3
17	L / 3%	0 - 9 9 - 18 18 - 36 36 - 48	B L WFG B SCL WFG BR C WMA YR L WMS	FR SS SP FR SS SP FR SS SP FR SS SP C SAP	N/A	48	N/A	N/A	0.275-0.3
18	L / 3%	0 - 10 10 - 18 18 - 37 37 - 48	B L WFG YB SCL WMS YR SC WFS RB L WMS	FR SS SP FR SS SP FR SS SP FR SS SP C SAP YB MOT	N/A	48	N/A	N/A	0.275
19	L / 8%	0 - 9 9 - 30 30 - 48	B L WFG BR SC WMS RB SCL WMS	FR SS SP FR SS SP FR SS SP C SAP	N/A	48	N/A	N/A	0.3
20	L / 8%	0 - 8 8 - 48	RB SCL WMS BR SCL WMS	FR SS SP FR SS SP C SAP	N/A	48	N/A	N/A	0.275-0.3
21	L / 6%	0 - 6 6 - 21	B L WFG RB CL WMS YR MASS SCL	FR SS SP FR SS SP VFI SS SP	2CH24	24	N/A	N/A	0.1

COMMENTS:

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: 11939B

This Section for Local Health Department Use Only

Initial submittal received: 7/8/24 (*Date*) by JPM (*Initials*)

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: [signature] Date: 7/11/24

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. *This permit is subject to revocation if the site plan, plat, or the intended use changes.* The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 7/8/29

See attached site sketch

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: 119578

This Section for Local Health Department Use Only

Initial submittal received: 7/8/24 (*Date*) by JPM (*Initials*)

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: [signature] Date of Issuance: 7/11/24

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: 7/11/29

See attached site sketch

Permit/File #: _____

ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County: _____

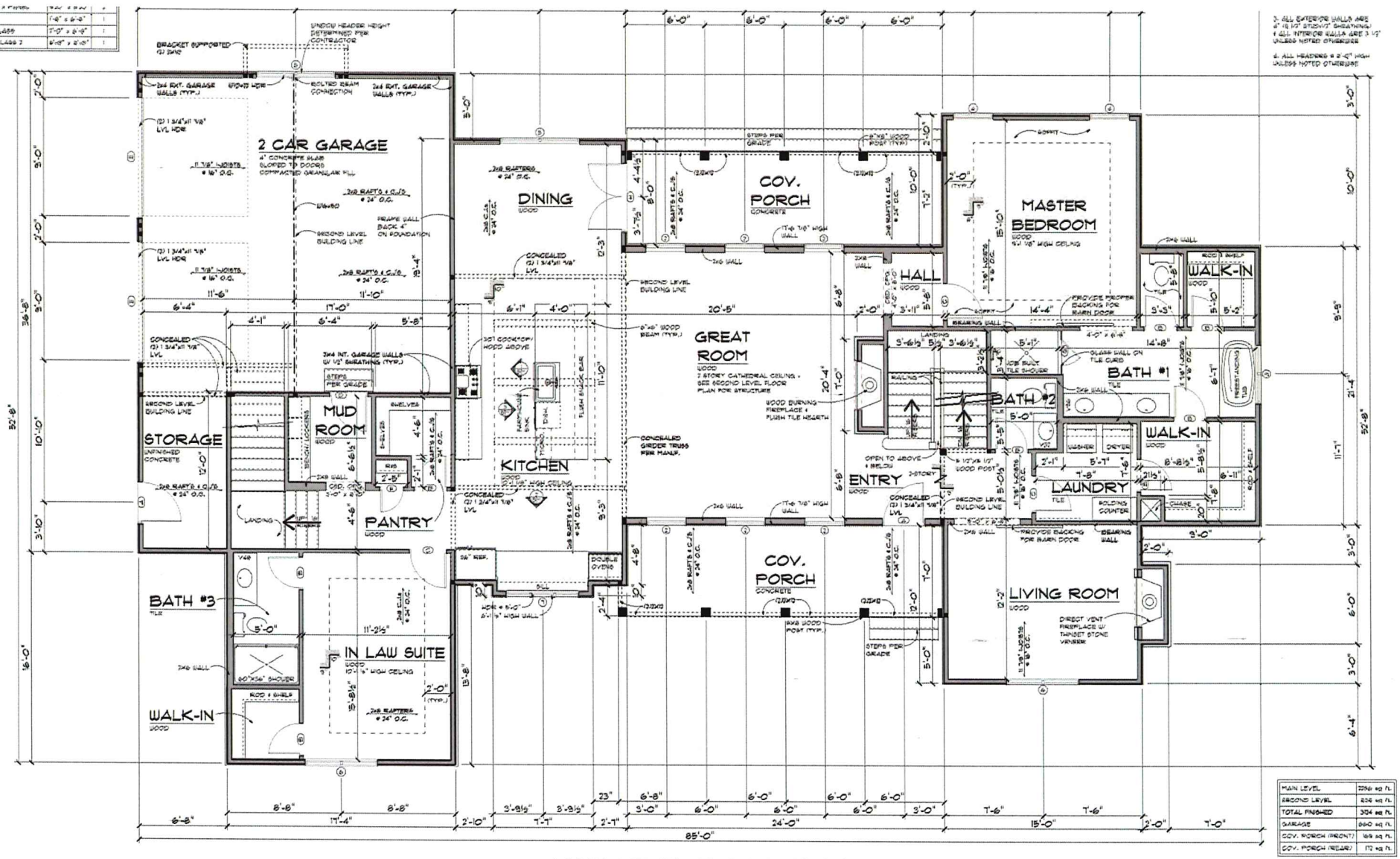
PIN/Lot Identifier: _____

Issued To: _____

Additional Improvement Permit Conditions:

Additional Construction Authorization Conditions:

F	DOOR	30X80	1'-0" x 6'-8"	1
G	DOOR	24X80 GLASS	2'-0" x 6'-8"	1
H	DOOR	60X80 GLASS 2	6'-0" x 6'-8"	1



MAIN LEVEL	2296 sq ft.
SECOND LEVEL	836 sq ft.
TOTAL FINISHED	3132 sq ft.
GARAGE	840 sq ft.
COV. PORCH (FRONT)	168 sq ft.
COV. PORCH (REAR)	172 sq ft.

MAIN LEVEL FLOOR PLAN

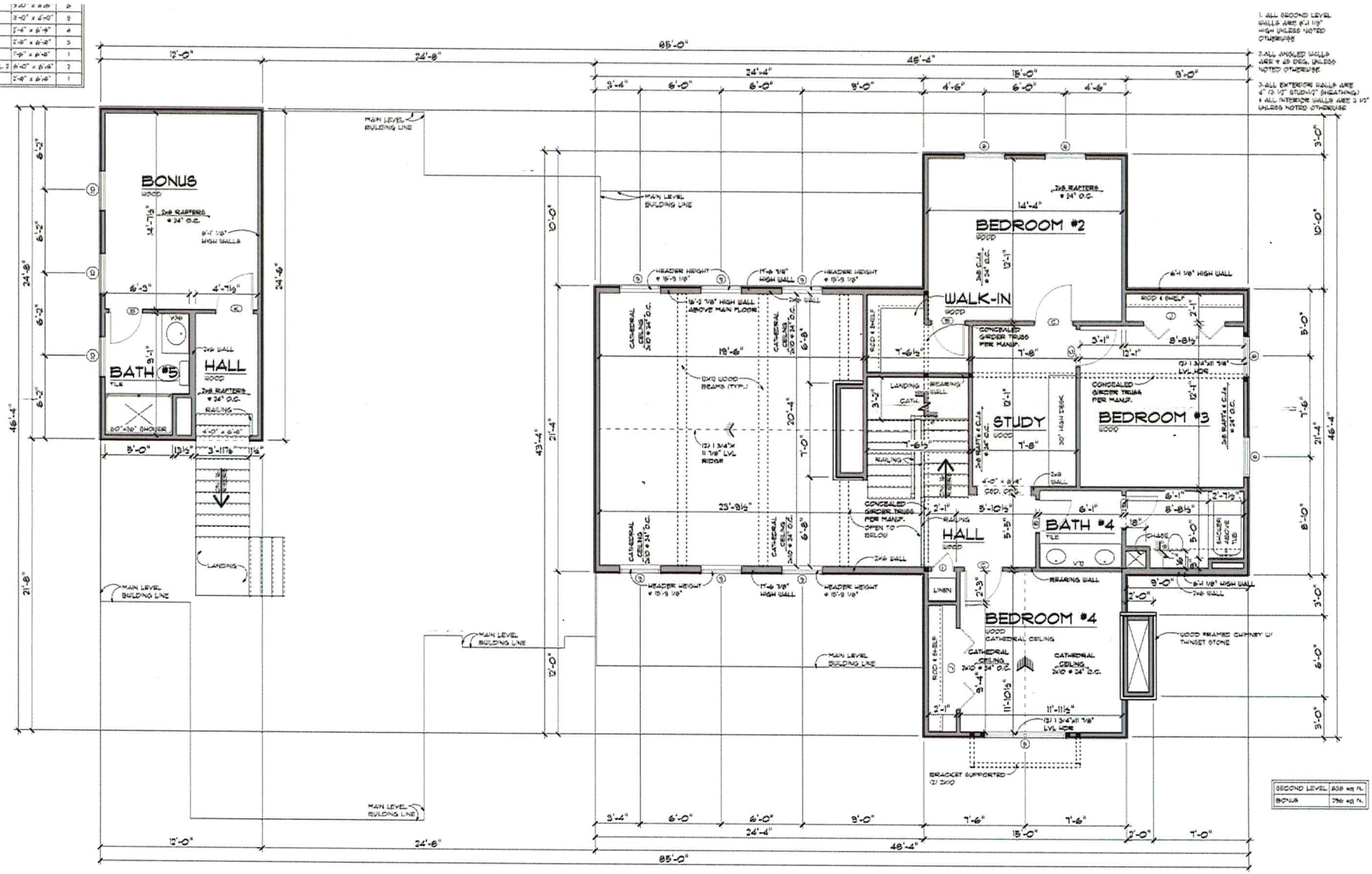
SCALE: 1/4" = 1'-0"

WINDOW	2DH36 CASEMENT	3'-0" x 6'-0"	2
WINDOW	3DH36 CASEMENT	3'-0" x 6'-0"	9
DOOR	2068	2'-6" x 6'-8"	4
DOOR	3068	3'-0" x 6'-8"	3
DOOR	1068	1'-0" x 6'-8"	1
BIFOLD	7080 BIFOLD COLONIAL 2	6'-0" x 8'-0"	2
DOOR	2068 FLAIR	2'-8" x 6'-8"	1

1. ALL SECOND LEVEL WALLS ARE 6" (5 1/2" HIGH UNLESS NOTED OTHERWISE

2. ALL ANGLED WALLS ARE @ 45 DEG. UNLESS NOTED OTHERWISE

3. ALL EXTERIOR WALLS ARE 6" (5 1/2" STUDS)/2" SHEATHING) & ALL INTERIOR WALLS ARE 2 1/2" UNLESS NOTED OTHERWISE



SECOND LEVEL	858 sq ft.
BONUS	286 sq ft.

SECOND LEVEL FLOOR PLAN

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

GENERAL NOTES

This plan was designed and drafted BY Advanced House Plans to meet average conditions and codes in the State of Nebraska at the time it was designed. Because codes and requirements can change and may vary from jurisdiction to jurisdiction AHP cannot warrant compliance with any specific code or regulation. Consult your local building official to determine the suitability of these plans for your specific site and application. This plan can be adapted to your local building codes and requirements, however, it is the responsibility of the purchaser and/or builder of this plan to see that the structure is built in strict compliance with all governing municipal codes (city, county, state and federal). The purchaser and/or builder of this plan releases the designer from any claims or lawsuits that may arise during the construction of this structure or anytime thereafter.

- If the contractor or sub-contractor, in the course of their work finds any discrepancies between the plan and the physical conditions of the site or structure, or any errors in the plans or specifications, it shall be their responsibility to immediately inform AHP, who will promptly verify and if necessary correct the working drawings. Any work done after such discovery will be done at the contractor's expense.

- Only the purchaser of this plan has permission to build this plan. The purchaser is given permission to reproduce the drawings only as required for such construction. The purchaser also has permission to modify this plan. No permission is given to any party to claim copyright on the original or modified plan. The modified plans shall remain subject to the license and may not be sold, distributed or otherwise transferred without the express written consent of Advanced House Plans. Infringing upon Advanced House Plans copyright through reproduction, distribution, construction or redrawing of design is punishable by law with fine up to $150,000 as defined by architectural copyright law.

DESIGN LOADS:

- Ultimate design wind speed: 115 mph, Exposure Category: B
- Seismic Design Category A
- Floor: 40 psf, live, 15 psf, dead; Roof: 30 psf, live, 10 psf, dead; Ceiling: 10 psf, live, 5 psf, dead
- Soil bearing Capacity - 1500 psf.
- Live loads, dead loads, wind loads, snow loads, lateral loads, seismic zoning and any specialty loading conditions will need to be confirmed before construction and adjustments to plans made accordingly. See your local building officials for verification of your specific load data, zoning restrictions and site conditions.

CONCRETE AND FOUNDATIONS:

- All foundation walls and slabs on grade shall be 3000 PSI (28-day) compressive strength concrete), unless noted otherwise.
- All interior slabs on grade shall bear on 4" compacted granular fill with 6 mil. polyethylene vapor barrier underneath.
- Provide proper expansion and control joints as per local requirements.
- All 36" x 36" x 18" concrete pads to have (3) #5 rods each way.
- All 48" x 48" x 24" concrete pads to have (4) #5 rods each way.
- Foundation walls are not to be backfilled until properly braced.
- Verify depth of frost footings with your local codes.
- Provide termite protection as required by HUD minimum property standards.
- Foundation bolts must be anchored to all plates with 5/8" bolts embedded 15" in concrete walls.
- For window openings in conc. wall, provide #5 bars x4' o.c. (two total) 0/2" clearance from top & sides of opg. for jamb & lintel reinforcing. Extend reinforcing a minimum of 2' past opening edges.

STEEL:

- All structural steel for beams and plates shall comply with ASTM specification A-36.
- All structural steel for steel columns shall comply with ASTM specification A-53 Grade B or A-501.
- All reinforcing steel for concrete shall comply with ASTM specification A-615 Grade 60.
- Provide steel shims in all beam pockets.
- Steel columns are to be 3" I.D. (Inside diameter) unless noted otherwise.

FRAMING MEMBERS:

- Unless noted otherwise, all framing lumber shall have the following characteristics:
  Fb = 1000 psi Fv = 75 psi E = 1,400,000 psi
- Contractor to confirm the size, spacing and stress characteristics of all framing and structural members to meet your local code requirements.
- Wall bracing method assumed as CS-WSP. Since braced wall line spacing and braced wall panel calculations vary by location, purchaser will need to consult a local professional for specific wall bracing calculations and diagrams.
- Hole sizes and locations in GN-LAM or Laminated Veneered Lumber (L.V.L.) members are to be confirmed by a professional engineer.
- Any structural or framing members not indicated on the plan are to be sized by contractor.
- Double floor joists under all partition walls, unless noted otherwise.
- All subflooring is assumed to be 3/4" thick, glued & nailed.
- All exterior walls are dimensioned to outside of 1/2" sheathing
- Calculated dimensions take precedence over scaled dimensions.
- All angled walls on floor plans are at 45 degree angle, unless otherwise noted.
- Laterally unsupported walls 12'-0" high or higher shall be 2x6 and balloon framed unless noted otherwise.
- Unless noted otherwise, above all openings that are:
  (1) Load bearing and less than or equal to 3 ft. ..... use 4x6.
  (2) Load bearing and more than 3 ft. ..... use (2) 2x12 with 1/2" Plywood between.
  (3) Non-load bearing and less than or equal to 6 ft. .....use 4x6.
  (4) Non-load bearing and more than 6 ft. ..... use (2) 2x12 with 1/2" Plywood between.
  (5) All exterior openings use (2) 2x12 with 1/2" Plywood between.
- All trusses to be engineered by truss manufacturer according to the loading indicated on this plan.
- All exterior corners shall be braced in each direction with let-in diagonal bracing or plywood.
- Floors (1 row of 1" x 3" cross-bridging on all spans over 8'-0" and (2) rows of 1" x 3" cross-bridging on all spans over 16'-0".
- Collar ties are to be spaced 4'-0" o.c.
- All purlins and kickers are to be 2x6's, unless noted otherwise.
- Any hip or valley rafters over a 28'-0" span are to be Laminated Veneer Lumber (L.V.L.).

MISC. NOTES:

- Prefabricated fireplaces and flues are to be U.L. approved and installed as per manufacturer's specifications.
- All materials, supplies and equipment to be installed as per manufacturer's specifications and per local codes and requirements.
- Provide proper insulation for all plumbing.
- 1/2" water-resistant drywall around showers, tubs and whirlpools.
- 1/2" drywall on interior walls and ceilings.
- 5/8" type "X" fire code drywall on garage walls and ceilings.
- When no brand is specified windows are called out by glass size only.
- In dwelling units, where the top of the sill of an operable window opening unit is located less than 24 inches above the finished floor and greater than 72 inches above the finished grade, fall protection must comply with R312.2.1
- Window opening control devices on window serving as a required emergency escape and rescue shall comply with ASTM F2090.
- Window, if not noted, are assumed to be casements.
- Window header heights are 6'-8" unless noted otherwise.
- Header heights are labeled to bottom of arched transoms.
- Confirm window openings for your local egress requirements and minimum light and ventilation requirements.
- Headroom at stairs shall have a minimum clearance of 6'-8" high.
- Provide proper handrails at stairs per local codes.
- The mechanical and electrical layouts are suggested only. Consult your mechanical and electrical contractors for exact specifications, locations and sizes.
- Jog flue to rear of ridge as necessary.
- Provide proper wiring for all electrical appliances, mechanical equipment and whirlpools per manufacturer's specifications.
- Air conditioner locations may vary depending on restrictive covenants and codes.

Hudson Bend

SCAN TO CONNECT WITH ADVANCED HOUSE PLANS

facebook Pinterest YouTube Instagram

advancedhouseplans EST 2002

SCAN TO RECEIVE OUR LATEST DESIGNS

SCAN TO VISIT OUR WEBSITE

JENNIFER A. BENSON REGISTERED ARCHITECT NORTH CAROLINA MATTHEWS, NC

6-24-24



PRELIM
FINAL 1/2/2023
REVISION

Hudson Bend

ORIGINAL DRAFT

IF THIS IS NOT RED — DO NOT COPY —

advancedhouseplans
ahp@advancedhouseplans.com | 8446298484

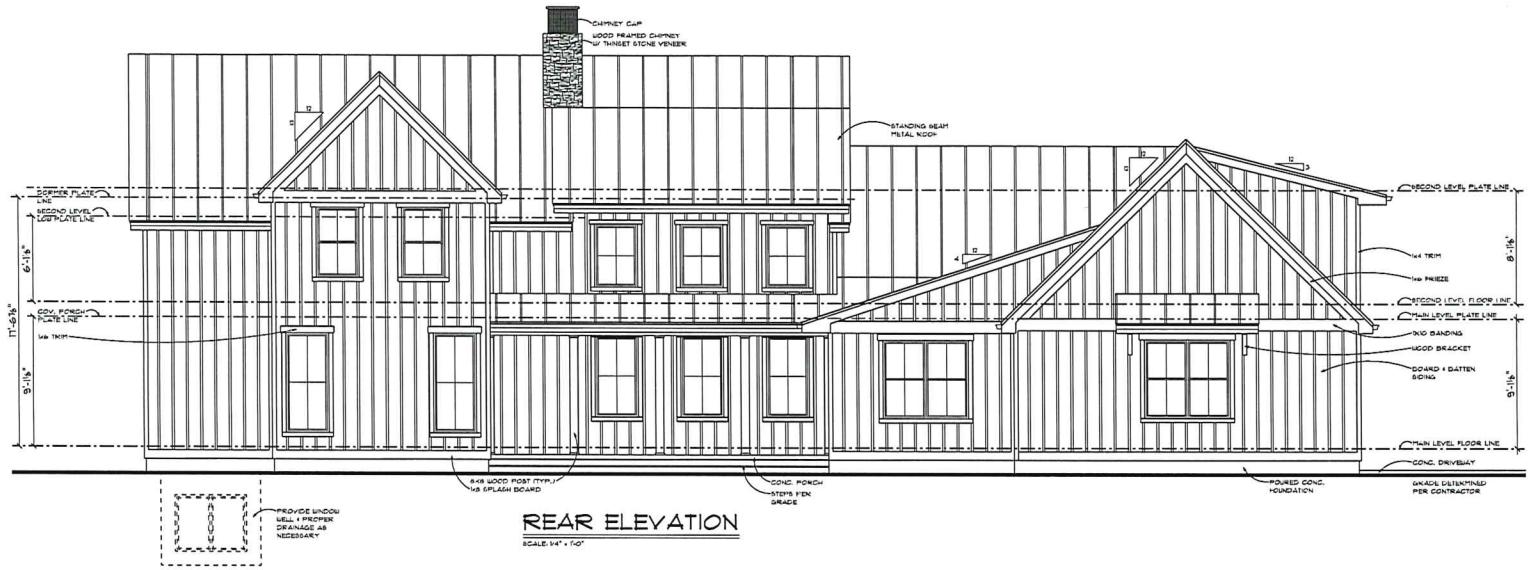
ADVANCED HOUSE PLANS & PROFESSIONAL RESERVE, LLC DBA AHP, ITS EMPLOYEES AND AGENTS MAKE NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS PLAN AND SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. FURTHER, AHP SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF INABILITY TO USE THE CONTENTS OF THIS PLAN. ANY CASE SHALL AHP'S LIABILITY EXCEED THE AMOUNT OF THE PURCHASE PRICE PAID FOR THE PLAN.

© 2023

30109

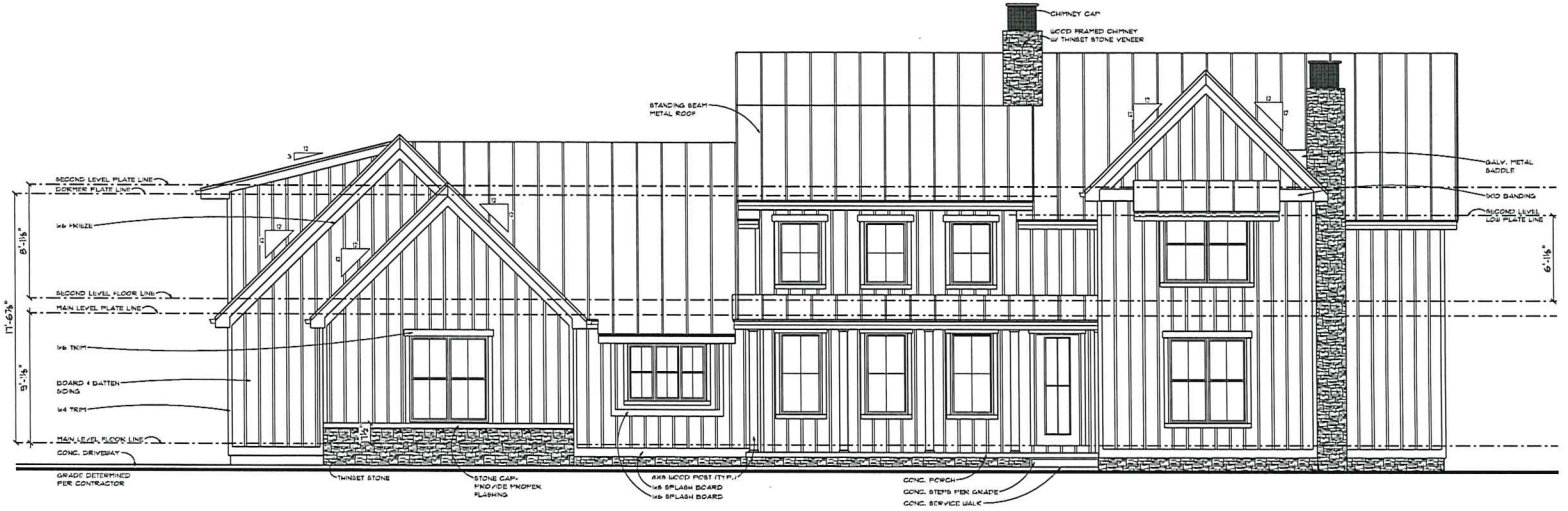
SHEET 1 of 9

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - see dimensions.



REAR ELEVATION

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



FRONT ELEVATION

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

JENNIFER A. BENSON
REGISTERED ARCHITECT
MATTHEWS, NC
6-24-24

PRELIM
FINAL 11/2/2023
REVISION

Hudson Bend

ORIGINAL DRAFT
IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
advancedhouseplans.com | 816.525.8585

ADVANCED HOUSE PLANS, A PROFESSIONAL RESIDENTIAL DESIGN FIRM, HAS PREPARED THESE PLANS AND SPECIFICATIONS FOR USE ON THE SPECIFIC PROJECT AND LOCATION AS DESCRIBED HEREIN. THE PURCHASER OF THESE PLANS IS GIVEN THE LIMITED LICENSE TO REPRODUCE THESE PLANS FOR CONSTRUCTION PURPOSES ONLY AND FURTHER DISTRIBUTION IS ILLEGAL. DO NOT SCALE PRINTS - USE DIMENSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. ADVANCED HOUSE PLANS SHALL BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN ON THESE PLANS. ADVANCED HOUSE PLANS IS NOT RESPONSIBLE FOR CONSTRUCTION BEGUN FROM THESE PLANS.

© 2023

30109

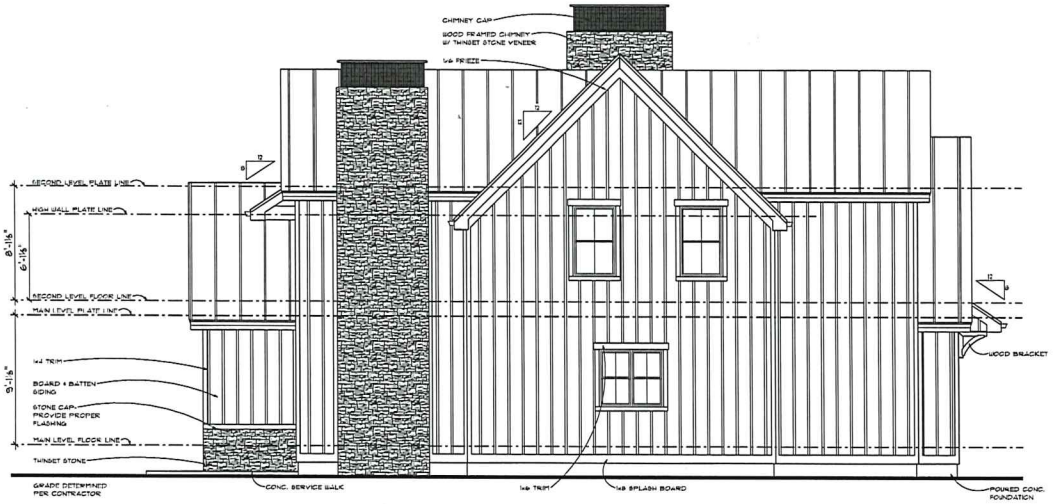
SHEET 2 OF 3

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - use dimensions.



LEFT ELEVATION

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



RIGHT ELEVATION

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

ahp

PRELIM
FINAL 1/2/2023
REVISION

Hudson Bend

ORIGINAL CREATION © IF THIS IS NOT RED DO NOT COPY

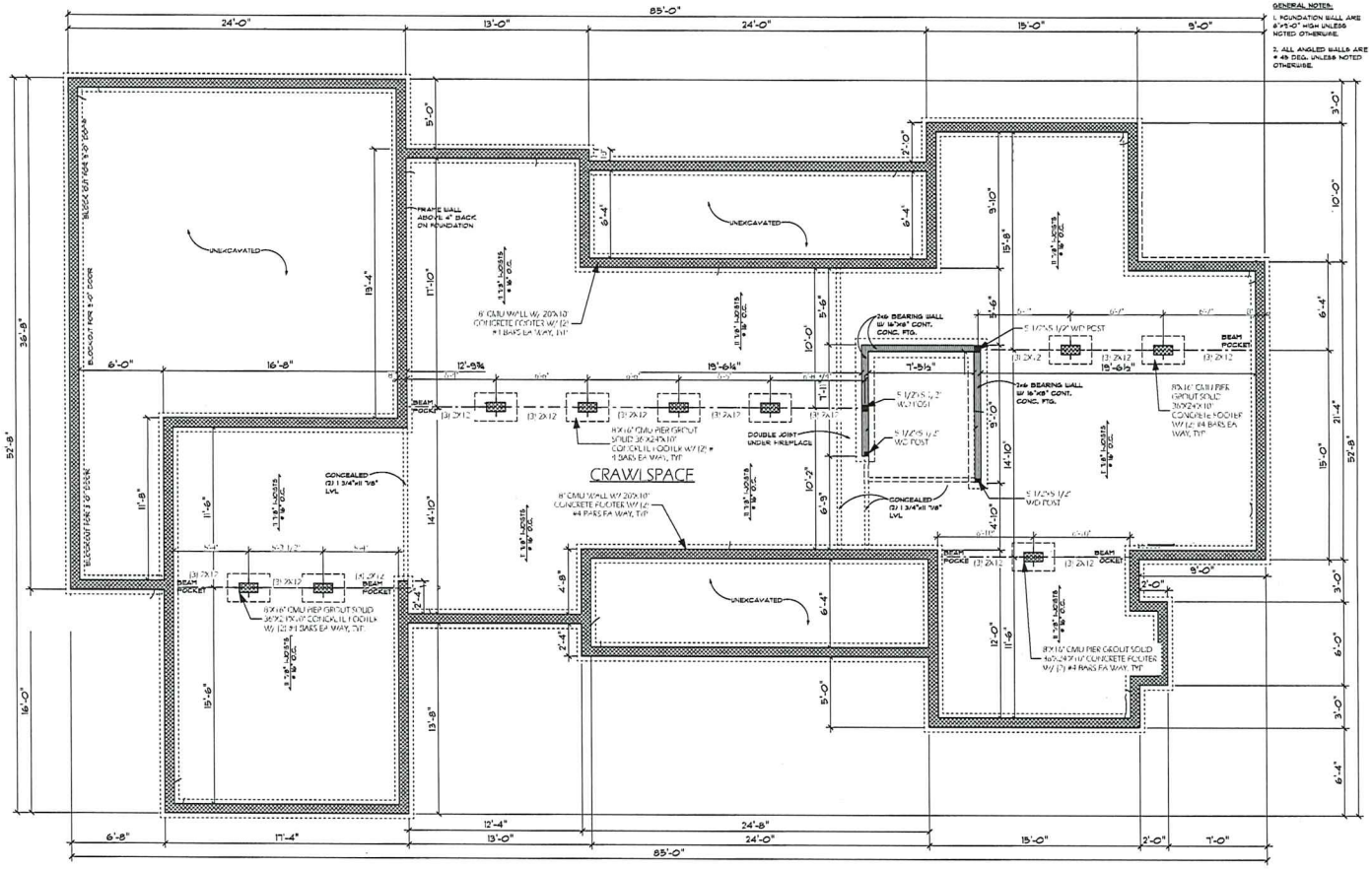
advancedhouseplans
ADVANCEDHOUSEPLANS.COM | 814.625.8335

ADVANCED HOUSE PLANS IS A PROFESSIONAL RESIDENTIAL DESIGN FIRM LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA. ALL PLANS AND DRAWINGS PREPARED BY ADVANCED HOUSE PLANS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF ADVANCED HOUSE PLANS. ALL COPYRIGHTS ARE RESERVED BY ADVANCED HOUSE PLANS. ALL PLANS AND DRAWINGS ARE PROTECTED UNDER THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA. THE PURCHASER OF THESE PLANS IS GIVEN THE LIMITED LICENSE TO REPRODUCE THESE PLANS FOR CONSTRUCTION PURPOSES ONLY AND FURTHER DISTRIBUTION IS ILLEGAL. DO NOT SCALE PRINTS - USE DIMENSIONS. THE PURCHASER OF THESE PLANS IS GIVEN THE LIMITED LICENSE TO REPRODUCE THESE PLANS FOR CONSTRUCTION PURPOSES ONLY AND FURTHER DISTRIBUTION IS ILLEGAL. DO NOT SCALE PRINTS - USE DIMENSIONS. THE PURCHASER OF THESE PLANS IS GIVEN THE LIMITED LICENSE TO REPRODUCE THESE PLANS FOR CONSTRUCTION PURPOSES ONLY AND FURTHER DISTRIBUTION IS ILLEGAL. DO NOT SCALE PRINTS - USE DIMENSIONS.

© 2023

30109

SHEET
03
OF
03



advancedhouseplans
kim@advancedhouseplans.com | 864.915.5569

Hudson Bend

PRELIM
FINAL 10/2/2023
REVISION

JENNIFER A. BENSON
REGISTERED ARCHITECT
SOUTH CAROLINA
MATTHEWS, NC
6-24-24

ORIGINAL DRAFT
IF THIS IS NOT RED DO NOT COPY

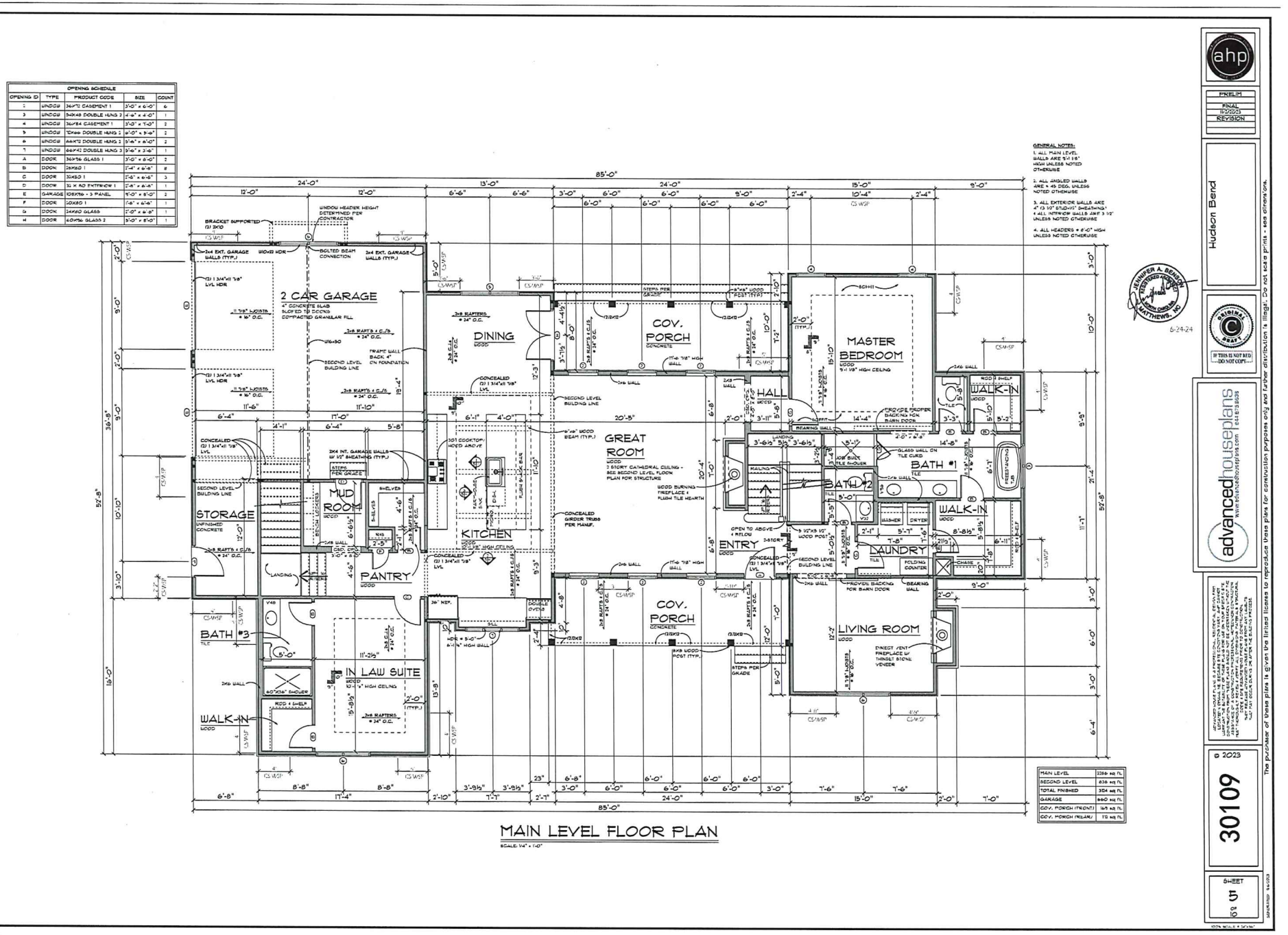
ADVANCED HOUSE PLANS IS A PROFESSIONAL RESIDENTIAL DESIGN FIRM. ALL PLANS, DRAWINGS, AND SPECIFICATIONS ARE COPYRIGHTED PROPERTY OF ADVANCED HOUSE PLANS AND WERE CREATED FOR USE ON THIS PROJECT ONLY. THEY SHALL NOT BE USED BY ANY PERSON FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN PERMISSION OF ADVANCED HOUSE PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL REPRODUCTIONS, REVISIONS, OR COPIES OF THESE PLANS OR ANY PORTION THEREOF. ADVANCED HOUSE PLANS SHALL BE DEEMED THE AUTHOR AND OWNER OF THESE PLANS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO. VISUAL CONTACT WITH THESE PLANS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE PURCHASER OF THESE PLANS IS GIVEN THE LIMITED LICENSE TO REPRODUCE THESE PLANS FOR CONSTRUCTION PURPOSES ONLY AND FURTHER DISTRIBUTION IS ILLEGAL. DO NOT SCALE PRINTS - USE DIMENSIONS.

© 2023

30109

SHEET 4 OF 9

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



MAIN LEVEL FLOOR PLAN

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

JENNIFER A. BENSON
REGISTERED ARCHITECT
NORTH CAROLINA
MATTHEWS, NC
6-24-24

ahp

PRELIM
FINAL
PERMIT
REVISION

Hudson Bend

ORIGINAL DRAFT
IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
www.advancedhouseplans.com | 636.272.8555

ADVANCED HOUSE PLANS & PROFESSIONAL SERVICES, PLLC HAS PREPARED THESE PLANS AND IS THE OWNER OF THE COPYRIGHT IN THESE PLANS AND ALL DETAILS, DESIGNS AND ARRANGEMENTS INDICATED THEREON. THESE PLANS ARE NOT TO BE CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF ADVANCED HOUSE PLANS & PROFESSIONAL SERVICES, PLLC. ANY UNAUTHORIZED USE OF THESE PLANS WITHOUT THE PRIOR EXPRESS WRITTEN PERMISSION AND CONSENT OF ADVANCED HOUSE PLANS & PROFESSIONAL SERVICES, PLLC SHALL BE ILLEGAL AND A VIOLATION OF THE FEDERAL COPYRIGHT LAWS. ANY UNAUTHORIZED USE SHALL BE SUBJECT TO ALL DAMAGES PERMITTED BY SUCH LAWS, INCLUDING, WITHOUT LIMITATION, ACTUAL AND STATUTORY DAMAGES.

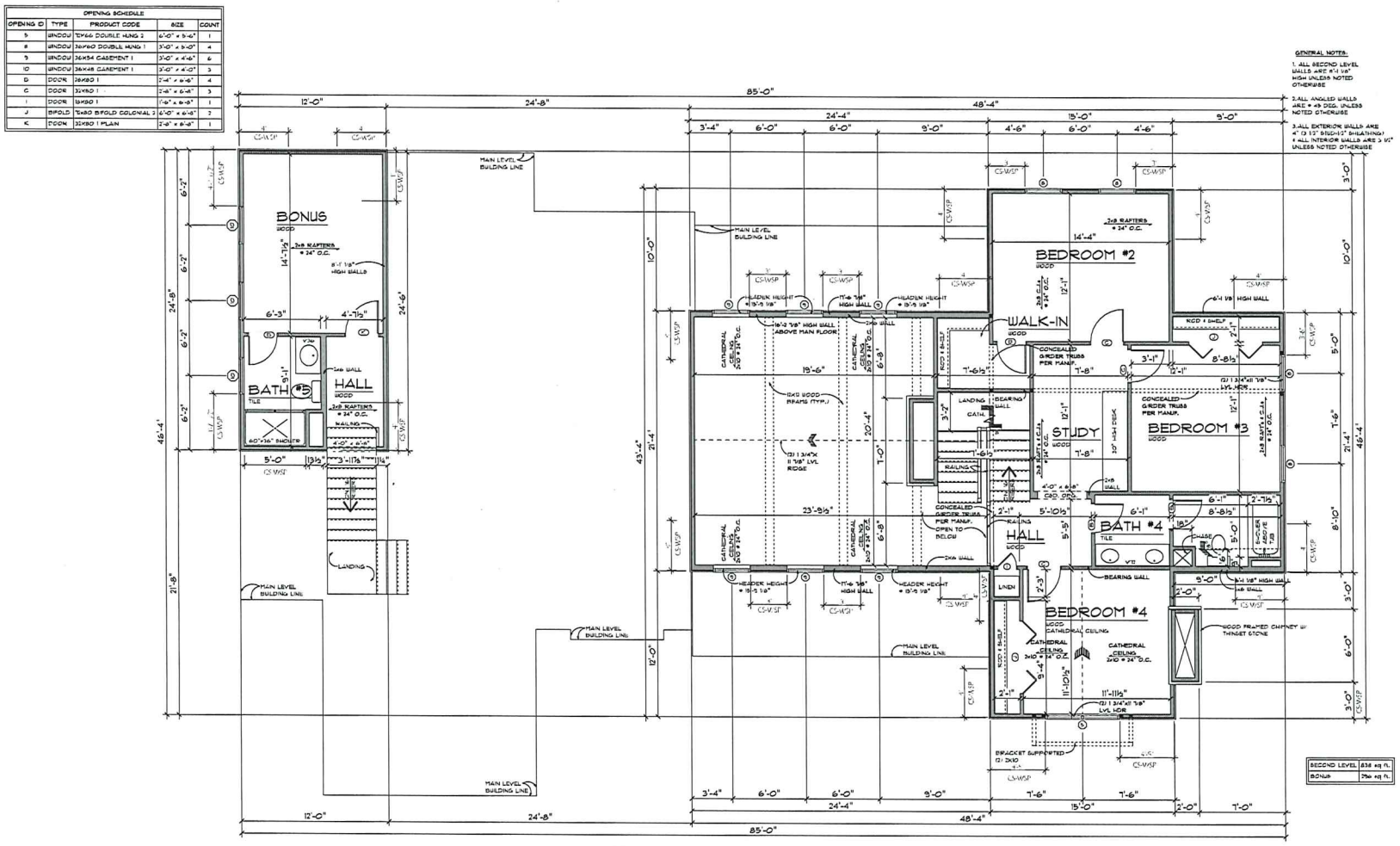
© 2023

30109

SHEET
6 of 11

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - see dimensions.

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



SECOND LEVEL FLOOR PLAN

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

ahp

PRELIM
FINAL 10/2023
REVISION

Hudson Bend

ORIGINAL DRAFT
IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
www.advancedhouseplans.com | 1-440-513-3939

ADVANCED HOUSE PLANS IS A PROFESSIONAL DESIGN FIRM LICENSED TO PRACTICE IN ALL STATES. ALL PLANS, TECHNICAL DRAWINGS AND SPECIFICATIONS BY ADVANCED HOUSE PLANS ARE COPYRIGHTED DOCUMENTS AND MAY NOT BE USED IN ANY FORM OR BY ANY METHOD WITHOUT THE EXPRESS WRITTEN CONSENT OF ADVANCED HOUSE PLANS. THIS INCLUDES BUILDING FROM THESE PLANS WITHOUT A CONTRACT WITH ADVANCED HOUSE PLANS. ALL RIGHTS RESERVED.

© 2023

30109

SHEET 6 of 9

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - use dimensions.

SEPARATE 1 of 2

ELECTRICAL	QUANT	SYMBOL
CEILING MOUNTED SMOKE DETECTOR	3	
CEILING LIGHT	11	
CEILING LIGHT WATERPROOF RATED	1	
CEILING FLOURO	1	
PENDANT LAMP	4	
LANDSCAPING LIGHT	8	
WATER BIB WATERPROOF	1	
WALL MOUNT LIGHT	4	
FAN	2	
EXTERIOR DOOR OUTLET	1	
EXTERIOR POTLIGHT	1	
LIGHT	1	
FLOURO SWITCH	1	
DIMMER SWITCH	3	
FLOOR LAMP	4	
FLOOR OUTLET	1	
LIGHT	14	
LIGHT STRIP	3	
LIGHT UP	3	
MOTION SENSOR	1	
PHONE	2	
POT LIGHT	3	
POT LIGHT DIMMER	1	
POT LIGHT SWITCH	1	
WALL SCONCE	1	

6-24-24

JENNIFER A. BENSON
LICENSED
PROFESSIONAL
ENGINEER
ONTARIO
MATTHEWS

Hudson Band

PRELIM
FINAL
PERMIT
RECORD

ahp

IF THIS IS NOT 432 IN. LONG - DO NOT SCALE

advancedhousepl ans
www.advancedhouseplans.com | 844.6.ADVANCED

The purchaser of these plans is given the limited license to reproduce these p'ans for construction purposes only and further distribution is illegal. Do not scale prints - use dimensions.

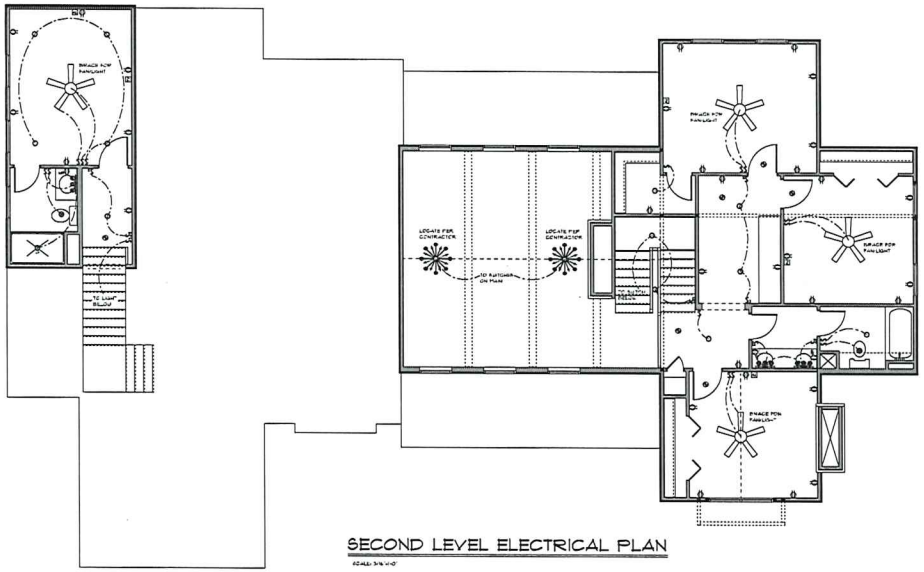
SCALE: 1/8"=1'-0"

© 2023

30109

SHEET 1 of 9

ELECTRICAL	COUNT	SYMBOL
CEILING FAN & ENCLOSED CK	4	
CAN LIGHT 6INCH	7	
CAN LIGHT WATERPROOF 6 INCH	1	
CEILING CLASSIC	2	
EXT TYPE WALL	5	
FAN	1	
SMOKE DETECTOR	4	
THERMOSTAT	1	
TV	1	
WATER	1	
WATER OFF	3	
WALL MOUNTED	2	
WATER	1	
WATER 3 WAY	2	
WALL MOUNTED CK 4 LIGHTS	1	
EXT MOUNTED CK 3 LIGHTS	1	



SECOND LEVEL ELECTRICAL PLAN

SCALE: 3/16"=1'-0"

JENNIFER A. BEASLEY
REGISTERED ARCHITECT
NORTH CAROLINA
MATTHEWS, NC

6-24-24

ahp

PRELIM
FINAL
11/2/2023
REVISION

Hudson Bend

ORIGINAL DRAFT

IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
www.advancedhouseplans.com | 8446-33936

ADVANCED HOUSE PLANS IS A PROFESSIONAL RESIDENTIAL DESIGN FIRM LICENSED TO PROVIDE PLANS IN THE STATE OF NORTH CAROLINA. WE ARE NOT LICENSED GENERAL CONTRACTORS AND DO NOT PERFORM CONSTRUCTION OR SUPERVISE CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AND TO ENSURE THAT ALL CONSTRUCTION COMPLIES WITH ALL APPLICABLE CODES AND ORDINANCES.

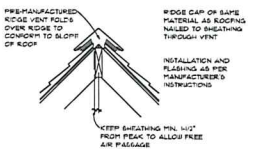
© 2023

30109

SHEET
09

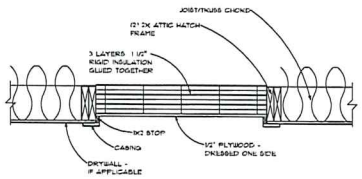
The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and for their distribution is illegal. Do not scale prints - use dimensions.

SEPTEMBER 14, 2023



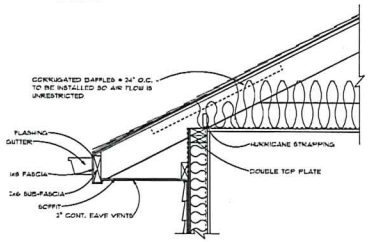
RIDGE VENT

SCALE: 1"=1'-0"



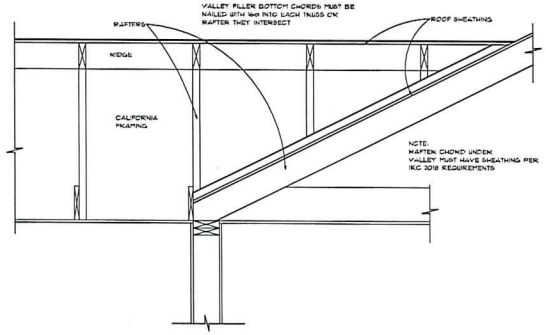
ATTIC HATCH

SCALE: 1"=1'-0"



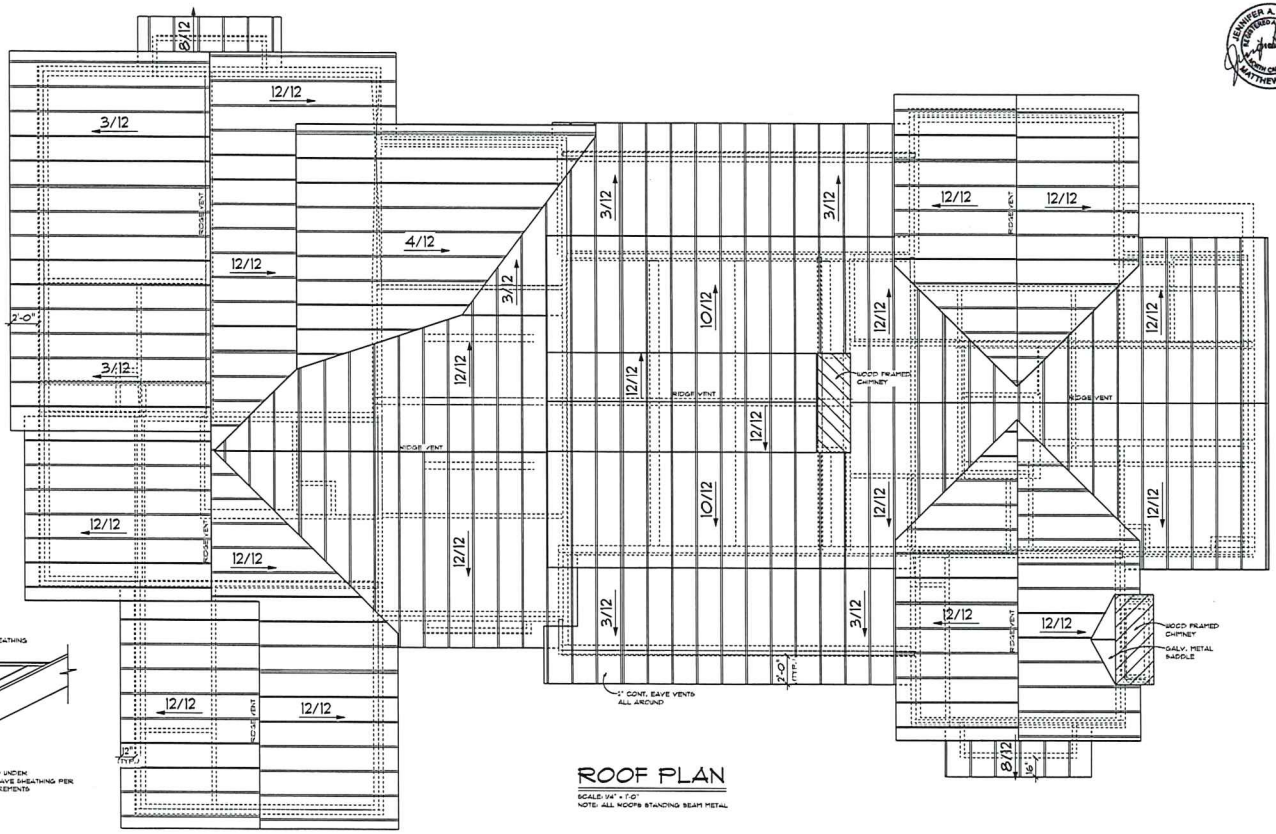
EAVE VENT

SCALE: 1"=1'-0"



ROOF OVERFRAMING

SCALE: 1"=1'-0"



ROOF PLAN

SCALE: 1/4" = 1'-0"
NOTE: ALL ROOFS STANDING SEAM METAL

JENNIFER A. BENSON
REGISTERED ARCHITECT
NORTH CAROLINA
MATTHEWS, NC

6-24-24

ahp

PRELIM
FINAL 11/2/2023
REVISION

Hudson Bend

ORIGINAL DRAFT

IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
www.advancedhouseplans.com | 8448236888

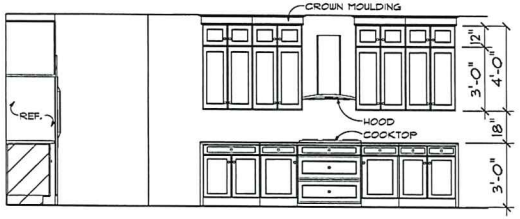
ADVANCED HOUSE PLANS & PATTERNS, INTERNATIONAL DESIGN, INC. HEREBY EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF ADVANCED HOUSE PLANS & PATTERNS, INTERNATIONAL DESIGN, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY THE PURCHASER OR ANY THIRD PARTY, PURCHASER AGREES TO INDEMNIFY ADVANCED HOUSE PLANS & PATTERNS, INTERNATIONAL DESIGN, INC. FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES AND COURT COSTS SUFFERED BY ADVANCED HOUSE PLANS & PATTERNS, INTERNATIONAL DESIGN, INC. AS A RESULT OF SUCH REUSE. PURCHASER AND ANY THIRD PARTY AGREE THAT THESE PLANS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF A SINGLE RESIDENCE ON A SINGLE LOT. THESE PLANS ARE NOT TO BE USED FOR ANY COMMERCIAL PURPOSE WHATSOEVER. THESE PLANS ARE NOT TO BE USED FOR MULTI-FAMILY CONSTRUCTION. THESE PLANS ARE NOT TO BE REPRODUCED IN ANY MANNER WHATSOEVER. THESE PLANS ARE NOT TO BE USED FOR ANY PURPOSE WHATSOEVER UNTIL PAID FOR IN FULL. THESE PLANS ARE NOT TO BE USED FOR ANY PURPOSE WHATSOEVER IF THE PURCHASER OR ANY THIRD PARTY IS IN BREACH OF ANY OF THE FOREGOING TERMS.

© 2023

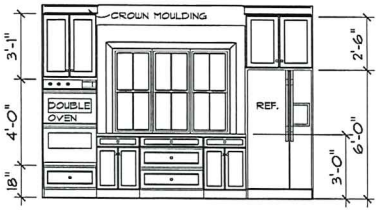
30109

SHEET
09

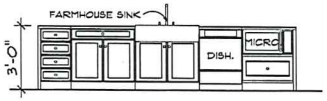
The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - see dimensions.



DETAIL 1



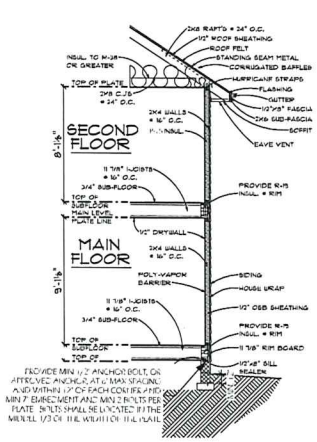
DETAIL 2



DETAIL 3

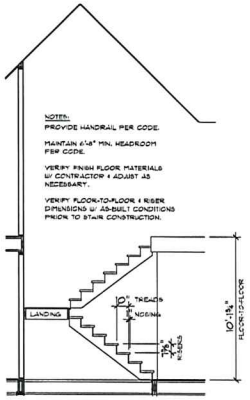
CABINET ELEVATIONS

SCALE: 3/8" = 1'-0"



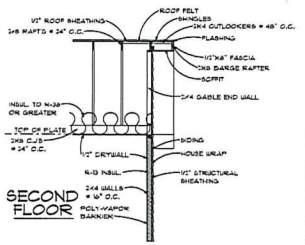
TYP. WALL SECTION

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



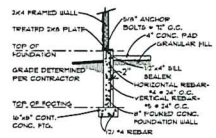
STAIR SECTION

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



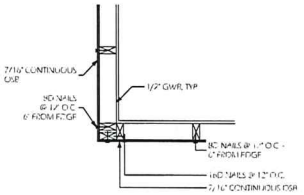
TYP. GABLE END SECTION

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

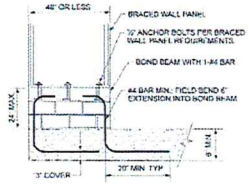


TYP. GARAGE WALL

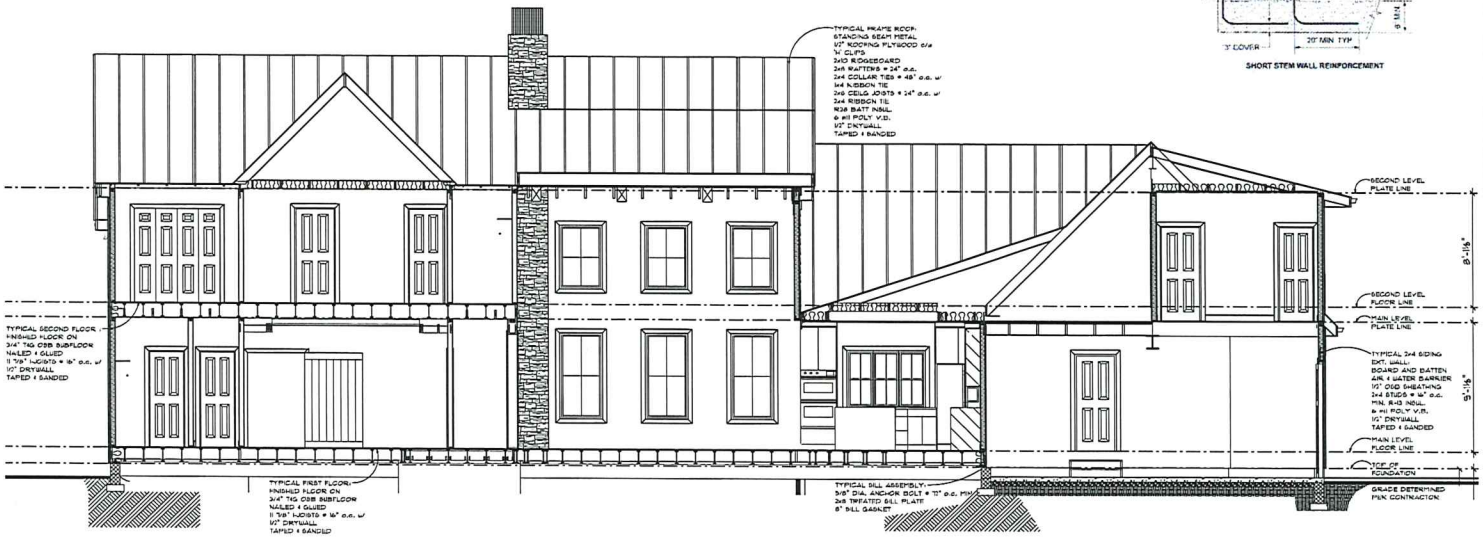
SCALE: 1/4" = 1'-0"



CORNER FRAMING DETAIL



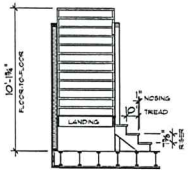
SHORT STEM WALL REINFORCEMENT



CROSS SECTION

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

NOTES:
1. PROVIDE HANDRAIL PER CODE.
2. MAINTAIN 6'-8" MIN. HEADROOM PER CODE.
3. VERIFY FINISH FLOOR MATERIALS W/ CONTRACTOR & ADJUST AS NECESSARY.
4. VERIFY FLOOR-TO-FLOOR & RISER DIMENSIONS W/ AS-BUILT CONDITIONS PRIOR TO STAIR CONSTRUCTION.



BONUS STAIR SECTION

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

JENNIFER A. BENSON
CERTIFIED ARCHITECT
NORTH CAROLINA
MATTHEWS, INC
6-24-24

ahp

PRELIM
FINAL
10/22/03
REVISION

Hudson Bend

ORIGINAL GRAY
IF THIS IS NOT RED DO NOT COPY

advancedhouseplans
www.advancedhouseplans.com | 6468138838

ADVANCED HOUSE PLANS IS A PROFESSIONAL DESIGN FIRM LICENSED TO PROVIDE SERVICES IN THE STATE OF NORTH CAROLINA. ADVANCED HOUSE PLANS IS NOT LICENSED TO PROVIDE SERVICES IN ANY OTHER STATE. ANY USE OF THESE PLANS IN ANY STATE OTHER THAN NORTH CAROLINA IS PROHIBITED. ADVANCED HOUSE PLANS ASSUMES NO RESPONSIBILITY FOR UNAUTHORIZED USE OF THESE PLANS IN ANY OTHER STATE.

© 2023

30109

SHEET 10 of 10

The purchaser of these plans is given the limited license to reproduce these plans for construction purposes only and further distribution is illegal. Do not scale prints - use dimensions.

GENERATED 10/22/2003

100% SCALE @ 24"x36"

MECKLENBURG COUNTY
Health Department

Gibbie Harris, MSPH, BSN
Director

(980) 314-9020

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Meloland Properties is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

5200 Mt. Holly-Huntersville Rd, Charlotte
Number Street Town
(Or Parcel Number)

Reginald Murray
Property Owner (print name)

Reginald Murray
Property Owner (signature)

8/30/2024
Date

NOTES:

1. PROPERTY DESCRIPTION:
LOT 5 OF PLAT ENTITLED "COX INVETMENT PROPERTIES LTD, MAP 2", RECORDED IN MAP BOOK 39 PAGE 165.
(MECKLENBURG COUNTY REGISTER OF DEEDS)

PARCEL ID#: 03306518

2. AREA CALCULATED BY COORDINATE GEOMETRY METHOD.
TOTAL LOT AREA 87,106 sqft/2.000 acres.

3. SUBJECT TO MECKLENBURG (N1-A) ZONING REGULATIONS.

4. MINIMUM SETBACK 30' (PLAT)
MINIMUM SIDE YARD 6' (PLAT)
MINIMUM REAR YARD 45' (PLAT)
MAX. IMPERVIOUS AREA 24%

5. THIS PARCEL MAY BE SUBJECT TO EASEMENTS, RESTRICTIONS AND/OR R/W'S EITHER RECORDED OR IMPLIED. A COMPLETE AND FULL TITLE SEARCH WAS NOT PERFORMED FOR THIS SURVEY.

6. THIS PARCEL LIES WITHIN FEMA FLOOD ZONE "X" (MINIMAL FLOOD RISK) PER FIRM #3710452800L DATED SEPTEMBER 2, 2015.

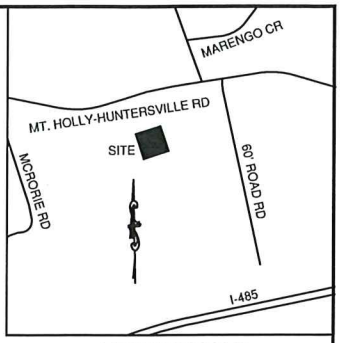
7. THIS PARCEL IS SUBJECT TO (4) 15 FOOT ACCESS EASEMENTS TO SERVICE LOTS 1-4 TO THE SOUTH AS SHOWN IN MAP BOOK 39 AT PAGE 165 & MAP BOOK 38 AT PAGE 945.

8. TOTAL PROPOSED IMPERVIOUS AREA PER THIS PLAN = 5,828 S.F. (6.69%)

9. THE ONLY EXISTING TREES ARE ON THE EAST SIDE OF THE ASPHALT ROAD AND ARE NOT TO BE DISTURBED.

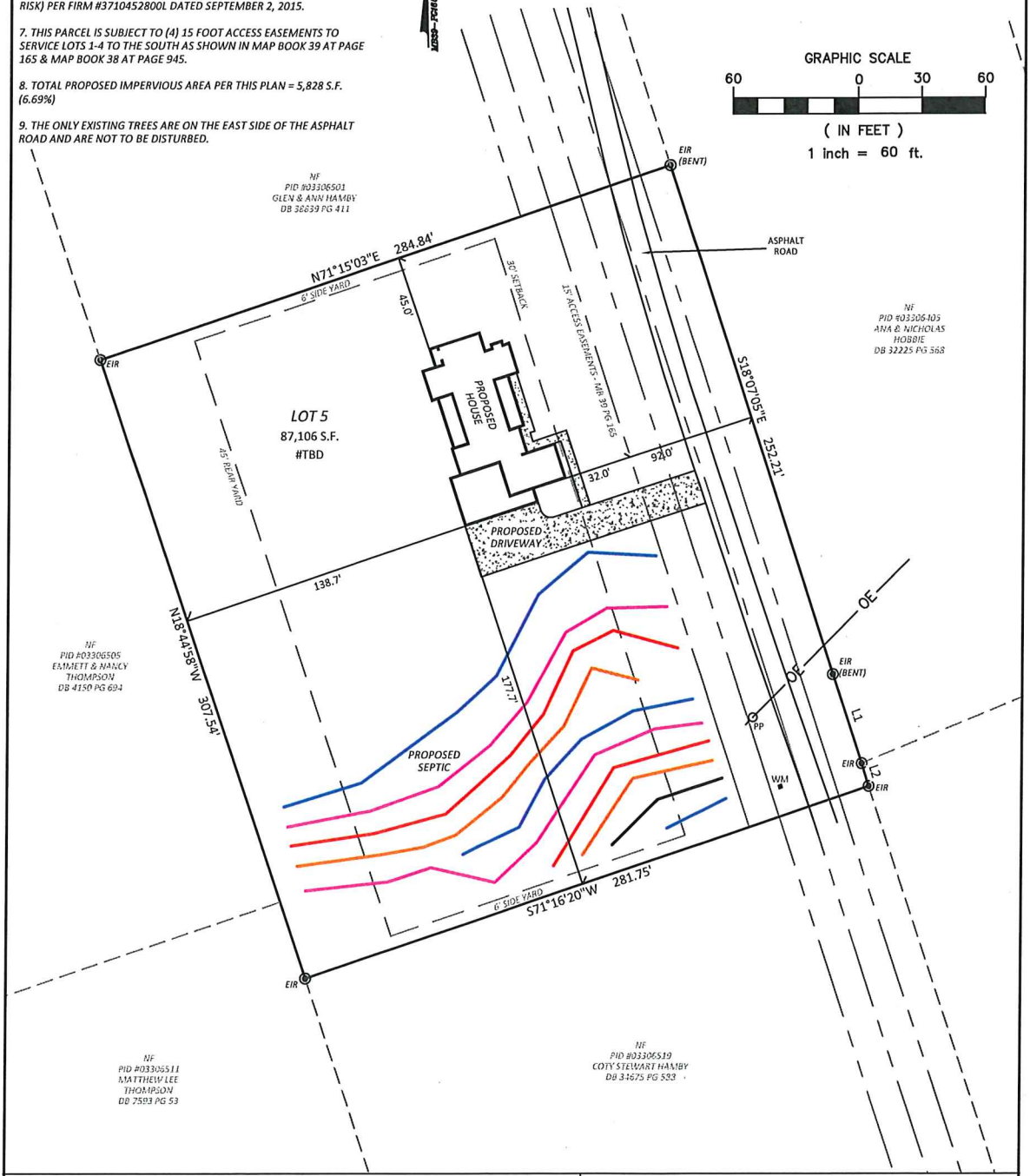
LEGEND:
- — — — — LINES NOT SURVEYED
- ● PROPERTY CORNER (FOUND)
- DB DEED BOOK
- EIP EXISTING IRON PIPE
- EIR EXISTING IRON ROD
- MB MAP BOOK
- NF NOW OR FORMERLY
- OE OVERHEAD ELECTRIC LINE
- PG PAGE
- PP POWER POLE
- SF SQUARE FEET
- WM WATER METER

LINE TABLE		
LINE	LENGTH	BEARING
L1	44.23'	S18°34'47"E
L2	11.23'	S17°48'17"E



VICINITY MAP
(NOT TO SCALE)

GRAPHIC SCALE
60 0 30 60
(IN FEET)
1 inch = 60 ft.



NORTH CAROLINA PROFESSIONAL LAND SURVEYOR L-4398 J. MARK FISHER

THIS IS AN EXISTING PARCEL OF LAND WITHIN A MUNICIPALITY THAT REGULATES PARCELS OF LAND.

I CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DESCRIPTION RECORDED IN DEED BOOK 38169 PAGE 527); THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN MAP BOOK 39, PAGE 165; THAT THE RATIO OF PRECISION IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). THIS 14th DAY OF AUGUST, 2024.

PRELIMINARY

J. MARK FISHER L-#4398

RESIDENTIAL SITE PLAN:
PARCEL #03306518
DATE: 14 AUG 2024 SCALE: 1"=60'
CHARLOTTE, NORTH CAROLINA
MECKLENBURG COUNTY

PROPERTY OWNER:
M & W DEVELOPERS LLC
P.O. BOX 681782
CHARLOTTE, NC 28216

SURVEY PERFORMED BY:
VERITAS LAND SERVICES PC
3556A CENTRE CIRCLE
FORT MILL, SC 29715
(704) 506-0554 C-3126

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 11992B Permit #: 14791 Tax Parcel #: 03306518

Property Owner: Reginald Murry

Job Location Address: 5200 Mt Holly Huntersville

City: Huntersville State: Nc Zip Code: 28216

Operation Permit Issuance Date: 10/7/25 Contractor Name: Lago Vistia

Permitted Design Flow: 720 GPD Liquid Capacity of Dosing Tank: na gallons

Liquid Capacity of Septic Tank: 1500 gallons Tank Manufacture Shoaf 1500 Effluent Pump Model: Na

Drainfield Installation ☐ N/A

Trench Depth: 34 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 720 feet

# of Lines: 4 @ 150 feet

Depth of Media: 12 inches (Type) CHM 36

Depth of Cover: 6+ inches

Distribution Device: Dbox

Bed Installation *(For Repair Installations ONLY.)* ☑ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☑ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 50+ feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

Inspection Dates

Tank(s) Inspected: 10/9/25

Excavation Inspected: 10/9/25

Pump & Controls Inspected: na

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

Installed as designed

See attached design

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☑ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☑ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IIb/CHM36/G/Na/NA

See A2 permit for maintenance requirments

DENR Authorized Agent: Heather Ray Signature: Heather Ray

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 11992B Permit #: 14791 Tax Parcel #: 03306518

Property Owner: Reginald Murry

Job Location Address: 5200 Mt Holly Huntersville

City: Huntersville State: Nc Zip Code: 28216

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☑ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

_____

_____

_____

_____

DENR Authorized Agent: _____ Date: _____

Signature: _____

SHEET TITLE:	PROJECT NAME:							
SEPTIC SYSTEM LAYOUT SKETCH MAP	MURRAY MT HOLLY HUNTERSVILLE LOT 5B MECKLENBURG COUNTY OCT 2025	SOIL & FORESTRY SERVICES OF THE CAROLINAS, PA	Soil & Forestry Services of the Carolinas, PA 813 Davidson Dr NW Concord NC 28025 usablesoil@gmail.com 980-439-5007 soilandforestryservices.com	SCALE 1" = 50'	FIELD WORK WO	DRAWN BY WO	PROJECT MGR. WO	PROJECT NO. 24-1034

