ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 223897

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4626 - 999 - 330

APPLICANT/OWNER: Shannon Cunningham APPLICANT ADDRESS: 757 Amarth Drive 28036

SITE ADDRESS: 160 Palmer Marsh Place Mooresville NC PHONE: 704-208-6856 ALT. PHONE –

SITE DIRECTIONS: Brawley School Road R on Rhyne L Beaton Path L Cicero L Shavenbrs SAP CONTROLLED: ☐ YES ☒ NO

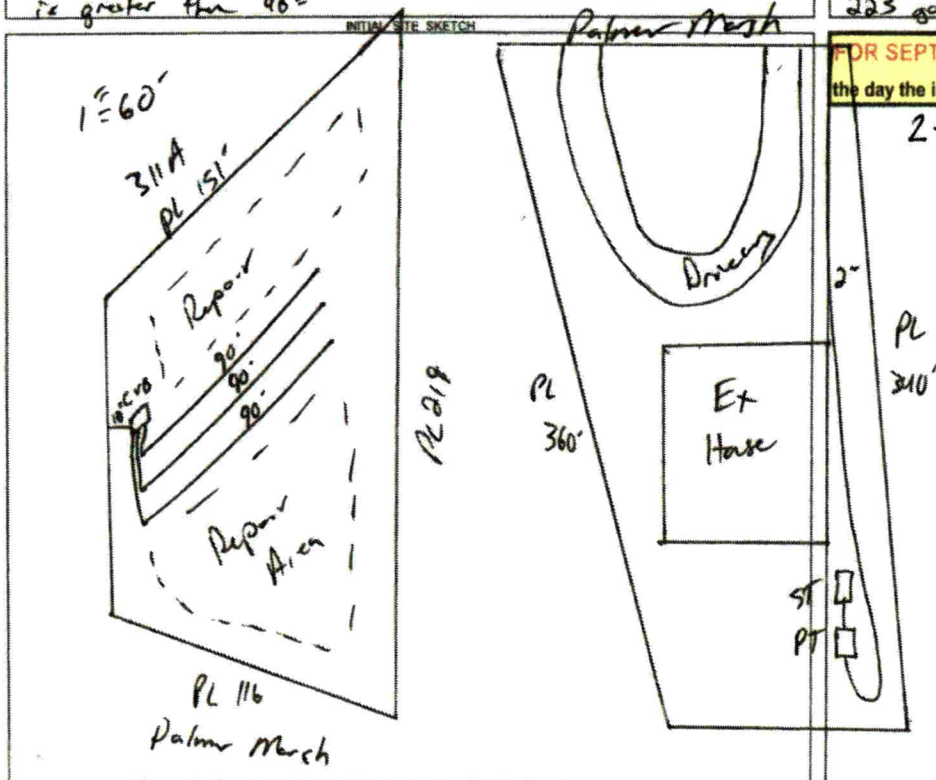
SUBDIVISION: Shavenbrs Bluff SECTION: 3B LOT # 310 LOT AREA: .416 DESIGN FLOW: 480 L.T.A.R.: .5

Septic Tank: Existing (gal)	STB	Date	☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI		☒ Residence	No. Bedrooms: 4	Water Supply: ☒ Private
Pump Tank: Existing (gal)	PT	Date	System Description: 502 Radation LP		☐ Business	No. Persons: 8	☐ Public
Pump Make: Goulds Model: WE1512HH		Serial #	Repair System Description: 502 Radation LP		☐ Other	No. Employees:	☐ Community
# Nitrification Fields	# Lines: 3	Linear Ft: 270	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab ☐ Crawl Space		
Trench Width: 36"	Trench Bottom Depth(~~Low side~~): Max 48"	Gravel Depth: –	☐ GRAVITY ☒ PRESSURE		☒ Basement w/ plumbing ☐ Basement w/o plumbing		

Comments / Conditions: Install Drainlines on Contour of Land. Use CVB for distribution. Vents Required if install depth is greater than 48".

Pre Construction Meeting Required
62 Panels
223 gallon dose 5/32 Hole Size 10.5" Drawdown

INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

2-23-2021 Talked with Installer Regarding Pumpsize & Friction loss.
System to have 3/16 holes @ 2ft Head
System Flow 36.58 gpm
System Dose @ 223 gallon.
Pump Run Time @ 6.1 min
10.5 in Tank Drawdown

3/9/21 Checked Drainlines, Supply lines & pressure set. Checked electrical & alarm.

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

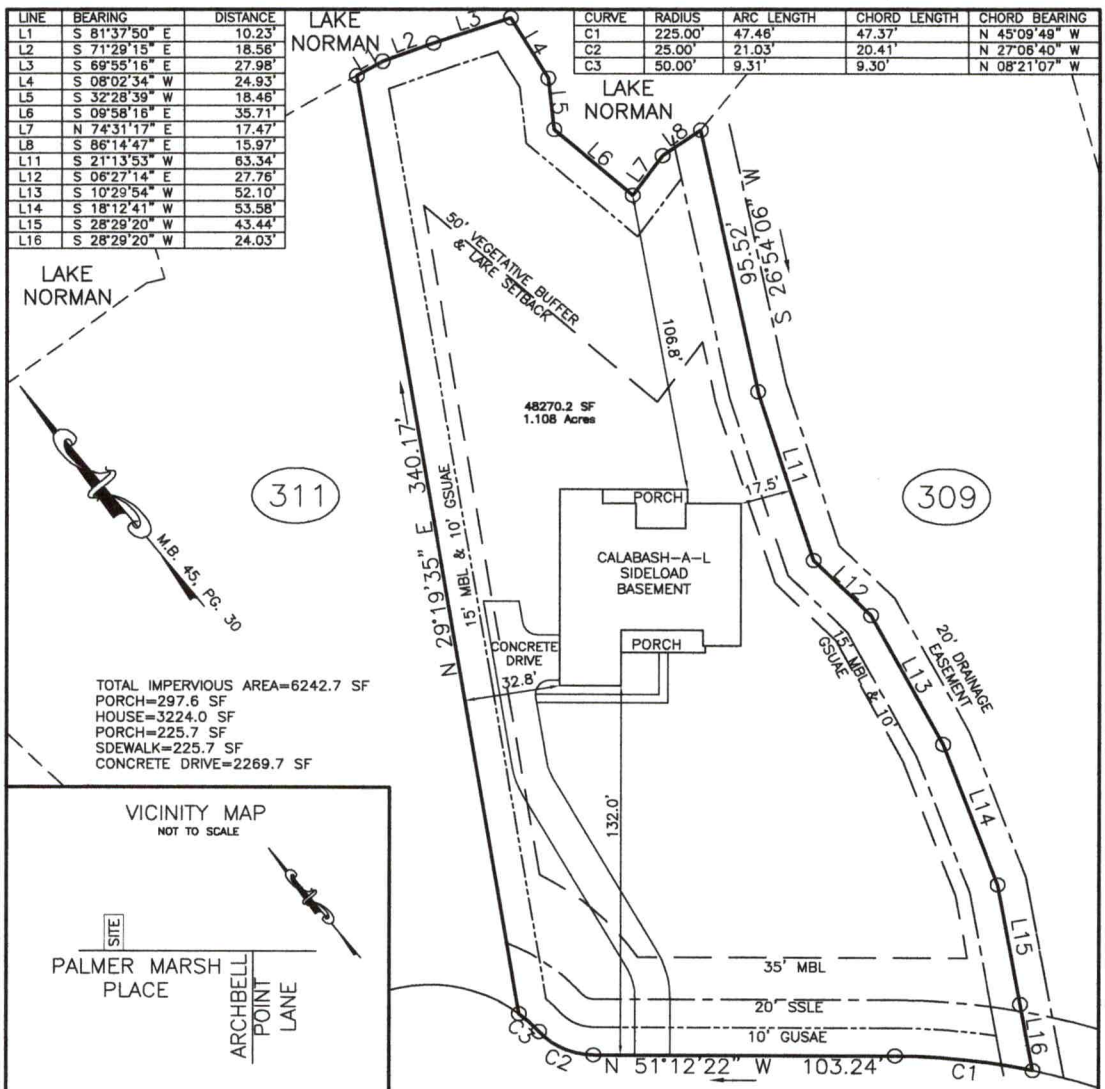
Owner / Applicant Signature: see attached Date: Installed by: Lentz Wastewater

IMPROVEMENT PERMIT by: Date: 1-22-2021 OPERATION PERMIT by: Date: 3/16/21

AUTHORIZATION TO CONSTRUCT by: Date: 1-22-2021 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

	Date	Initials
Drain Lines Checked	3/9/21	MD
Tanks Checked	Exist	
Pressure Manifold or Valve Box Checked	3/9/21	MD
Pressure Head Set	3/9/21	MD
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract (Y / N)	3/16/21	MD
Comments: As of 3/10/21 Needs Maint. Contract		



LINE	BEARING	DISTANCE
L1	S 81°37'50" E	10.23'
L2	S 71°29'15" E	18.56'
L3	S 69°55'16" E	27.98'
L4	S 08°02'34" W	24.93'
L5	S 32°28'39" W	18.46'
L6	S 09°58'16" E	35.71'
L7	N 74°31'17" E	17.47'
L8	S 86°14'47" E	15.97'
L11	S 21°13'53" W	63.34'
L12	S 06°27'14" E	27.76'
L13	S 10°29'54" W	52.10'
L14	S 18°12'41" W	53.58'
L15	S 28°29'20" W	43.44'
L16	S 28°29'20" W	24.03'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	225.00'	47.46'	47.37'	N 45°09'49" W
C2	25.00'	21.03'	20.41'	N 27°06'40" W
C3	50.00'	9.31'	9.30'	N 08°21'07" W

TOTAL IMPERVIOUS AREA=6242.7 SF
PORCH=297.6 SF
HOUSE=3224.0 SF
PORCH=225.7 SF
SDEWALK=225.7 SF
CONCRETE DRIVE=2269.7 SF

VICINITY MAP
NOT TO SCALE

LEGEND (IF USED)

IRF=IRON ROD OR REBAR FOUND
PF=PIPE FOUND
MBL=MINIMUM BUILDING LINE
IRS=IRON REBAR SET
CMF=CONCRETE MONUMENT FOUND
CP=CALCULATED POINT
PDE=PUBLIC DRAINAGE EASEMENT
FFE=FINISHED FLOOR ELEVATION
BFE=BASE FLOOD ELEVATION
SSLE=SEPTIC SUPPLY LINE EASEMENT
PP=POWER POLE
OHU=OVERHEAD UTILITIES
F.E.M.A.=FEDERAL EMERGENCY MANAGEMENT AGENCY
F.I.R.M.= FEDERAL INSURANCE RATE MAP
GSUAE=GENERAL SREVICE UTILITY & ACCESS EASEMENT

160 PALMER MARSH PLACE

50' PUBLIC RIGHT-OF-WAY

GRAPHIC SCALE
25 0 12.5 25 50
1 INCH = 50 FEET

FLOOD CERTIFICATION:
1. A PORTION OF THIS PROPERTY DOES LIE WITHIN A F.E.M.A. SPECIAL FLOOD HAZARD AREA AS SHOWN ON F.I.R.M. PANEL 3710462600J, DATED 3/18/2008.

GENERAL NOTES:
1. MEASUREMENTS ON THIS MAP ARE IN FEET AND DECIMALS THEREOF.
2. ALL SET CORNERS ARE 1/2" IRON REBAR UNLESS OTHERWISE NOTED.
3. THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHTS OF WAYS, AND RESTRICTIONS NOT DISCERNABLE BY OBSERVATION AT THE TIME OF SURVEY OR THAT MAY BE OF RECORD. NO TITLE SEARCH BY THOMAS D. VON CANON.
4. THIS DOCUMENT IS ONLY FOR THE PROPOSE OF SHOWING PROPOSED HOUSE LOCATION. THE FINAL LOCATION OF THIS HOUSE MAY VARY. THIS DOCUMENT MAY NOT BE USED FOR REAL ESTATE CONVEYANCE.

REFERENCES
1. FINAL SUBDIVISION MAP OF SHAVENDER'S BLUFF, PHASE THREE, SECTION B, RECORDED IN MAP BOOK 45, PAGE 30, ON JUNE 22ND, 2004 OF THE IREDELL COUNTY NORTH CAROLINA, REGISTER OF DEEDS.

PROPOSED HOUSE LOCATION

FOR: D.R. HORTON, INC.

LOT 310
PHASE THREE, SECTION B
SHAVENDER'S BLUFF
DAVIDSON TOWNSHIP
IREDELL COUNTY, NORTH CAROLINA

VCS & CO., INC. C-2160
1 YAUPON WAY
OAK ISLAND, NC
TELE. (704) 361-1557
FAX. (910) 278-4827
MAILING ADDRESS: 700 PINE FOREST ROAD, CHARLOTTE, N.C. 28214

Z:\VCSCHARLOTTE\PP\DR HORTON\MISC\SHAVENDERS BLUFF\160 PALMER MARSH PLACE 2004 7/31/2019 : CHT 8/17/2019

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Shannon Cunningham
ADDRESS: 160 palm marsh
PROPOSED FACILITY: 4BR
PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 160 palm marsh
APPLICATION DATE 11-9-2020
DATE EVALUATED: 12-21-2020
PROPERTY SIZE: .46 Ac
PROPERTY RECORDED: Cy

WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	1-2%	0-12	Fill		N/A	60"	N/A	N/A	PS .3
		12-18	SBK SCL	FR SSPPSmp					
		18-36	SBK SCL						
		36-60	SBK CL						
2	3-4%	0-30	ABK C		4/3 mottles @ 22"	51"	N/A	N/A	PS .3 Deep
		30-51	SBK CL						
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	4100'	267'
System Type(s)	05% PR	50%
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Box
OTHER(S) PRESENT:

COMMENTS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #: 4626995830
COUNTY: Iredell

310

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

OWNER: Len Sullivan
ADDRESS: 1160 Palmer Marsh
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 1160 Palmer marsh
APPLICATION DATE: 12/19/17
DATE EVALUATED: 02/02/17
PROPERTY SIZE: 0.416 ac.
PROPERTY RECORDED: yes

WATER SUPPLY: ☑ Private ☐ Public ☑ Well ☐ Spring ☐ Other W/A
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

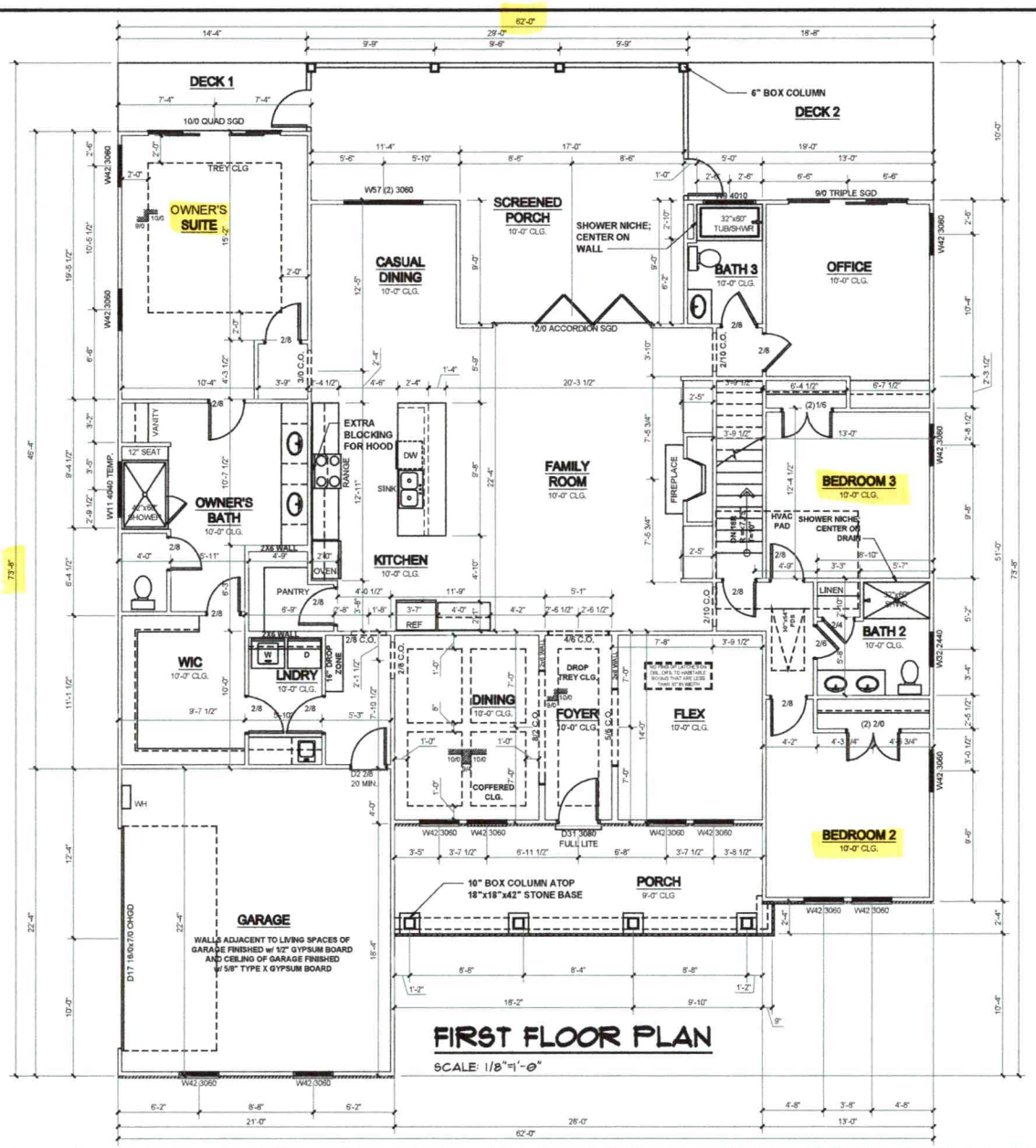
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 14%	0-8	Gr SCL	VF SE	PS	PS	W/A	W/A	PS .3
		8-36	SBK C	FR SE					
		36-55	WAPK BC	FR/FI SE					
2	L 12%	0-10	Gr SCL	FR SE	Rare flecks @ 40" few yellow browns @ 40"	PS	W/A	W/A	PS .3
		10-48	SBK C	FI SE					
3	L 14%	0-4	Gr SCL	FR SE	PS	PS	W/A	W/A	PS .3
		4-37	ABK C	FI SE					
		37-50	WAPK BC	FI/VSE					
4	L 14%	0-4	Gr SCL	FR SE	PS	PS	W/A	W/A	PS .3
		4-36	SBK C	FI SE					
		36-48	WAPK BC	FI/VSE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	HB	LU
Site LTAR	.3	.3

OTHER FACTORS (.1946): PS
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: H Snow
OTHER(S) PRESENT:

COMMENTS:

Updated February 2014



FIRST FLOOR PLAN

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

JDS CONSULTING DESIGN

JDS CONSULTING & DESIGN, PLLC
8600 'D' JERSEY CT, RALEIGH, NC 27617
919.480.1075

INFO@JDSDESIGNONLINE.COM
WWW.JDSDESIGNONLINE.COM

JDS CONSULTING & DESIGN IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD BY CONTRACTOR OR BY OTHERS. DRAWINGS ARE PROVIDED TO CLIENT FOR THE LOT NUMBER, PROPERTY, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

D·R·HORTON America's Builder
EMERALD HOMES
2500 Regency Parkway, Suite 110, Cary, NC 27518
TEL: (919) 465-5599 FAX: (919) 465-5506

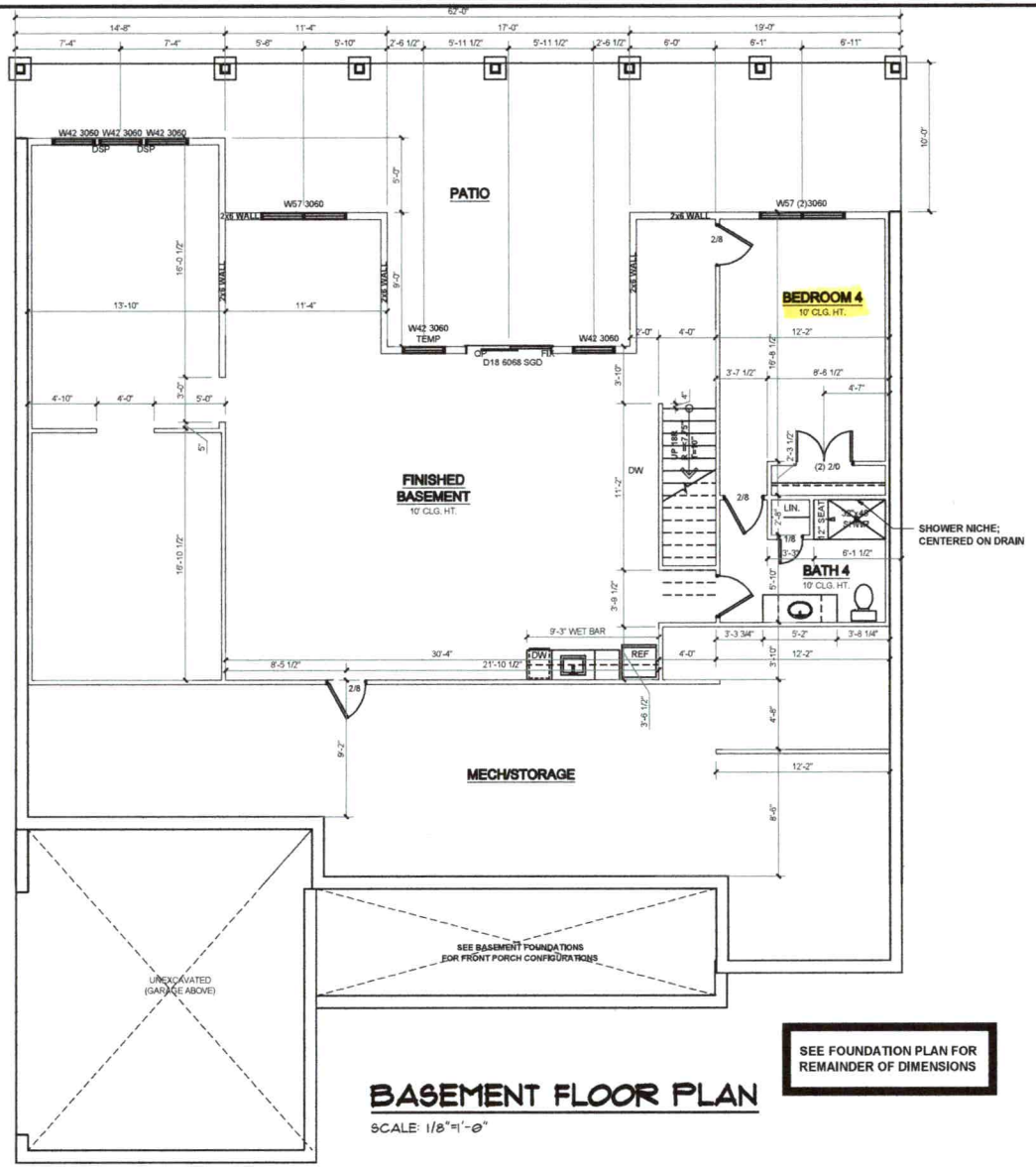
PROJECT: CUNNINGHAM
MODEL:
SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO.: 20900340

DATE: 03/04/2020
DRAWN BY: TDE

FIRST FLOOR PLAN

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BASEMENT FLOOR PLAN

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

SEE FOUNDATION PLAN FOR REMAINDER OF DIMENSIONS

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D·R·HORTON America's Builder

EMERALD HOMES

PROJECT: CUNNINGHAM

MODEL:

SCALE: 1/8" = 1'-0" FOR 11x17 PAPER, 1/4" = 1'-0" FOR 22x34 PAPER, OR AS NOTED

PROJECT NO: 20900340

DATE: 03/04/2020

DRAWN BY: TDE

BASEMENT FLOOR PLAN

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