ICHD–ENVIRONMENTAL HEALTH DIVISION

1A3 4:00 AP

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

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

PERMIT # 309241

APPLICANT/OWNER: Nest Communities LLC APPLICANT ADDRESS: 236 Raceway Ste 7 Mooresville, NC 28117

PIN # Multiple Parcels

SITE ADDRESS: 931 Cornelius Rd Mooresville, NC 28117 PHONE: 7044333-9947 ALT. PHONE

SITE DIRECTIONS: US21 N TL Cornelius Rd on left before Perth Rd

SUBDIVISION: Harbor Landing SECTION: 1 LOT # 6, 7, 8, 9, 10 & 12 LOT AREA: offsite

SAP CONTROLLED: N/A ☐ YES ☐ NO

DESIGN FLOW: Multiple L.T.A.R.:

Septic Tank ___ (gal) STB ___ Date ___

Pump Tank ___ (gal) PT ___ Date ___

Pump Make ___ Model ___ Serial # ___

Nitrification Fields 5 # Lines Multiple Linear Ft Multiple

Trench Width See permit Trench Bottom Depth(Low side) See permit Gravel Depth See permit

☒ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI

System Description: Offsite-Easements-Pumpline

Repair System Description:

Maintenance Agreement Required: ☐ YES ☐ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence ☐ Business ☐ Other ☐ Slab ☐ Basement w/plumbing

No. Bedrooms ___ No. Persons ___ No. Employees ___ ☐ Crawl Space ☐ Basement w/o plumbing

Water Supply: ☐ Private ☐ Public ☒ Community

Comments / Conditions:

INITIAL SITE SKETCH

See attached plat & Supply line Construction detail Dated 7/1/2020

Off site Septic Lots as:

#6A - 4638-97-0825
#7A - 4638-97-0751
#8A - 4638-87-9719
#9A - 4638-87-8829
#10A - 4638-87-9965
#11A - 4638-97-1334 (for lot 11)
#12B - 4638-87-9499 (for lot 12)

AS BUILT SKETCH

1/13/2021 - Pressure cleared middle Section
1/20/2021 - Pressure Recorded.
1/21/2021 Pressure Held.

House Lots:

#6 - 4638-97-3409 (Lots 5+6 combined)
#7 - 4638-97-5347
#8 - 4638-97-6296
#9 - 4638-97-8159
#10 - 4638-97-9236
#11 - 4638-97-3065
#12 - 4638-97-3116

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

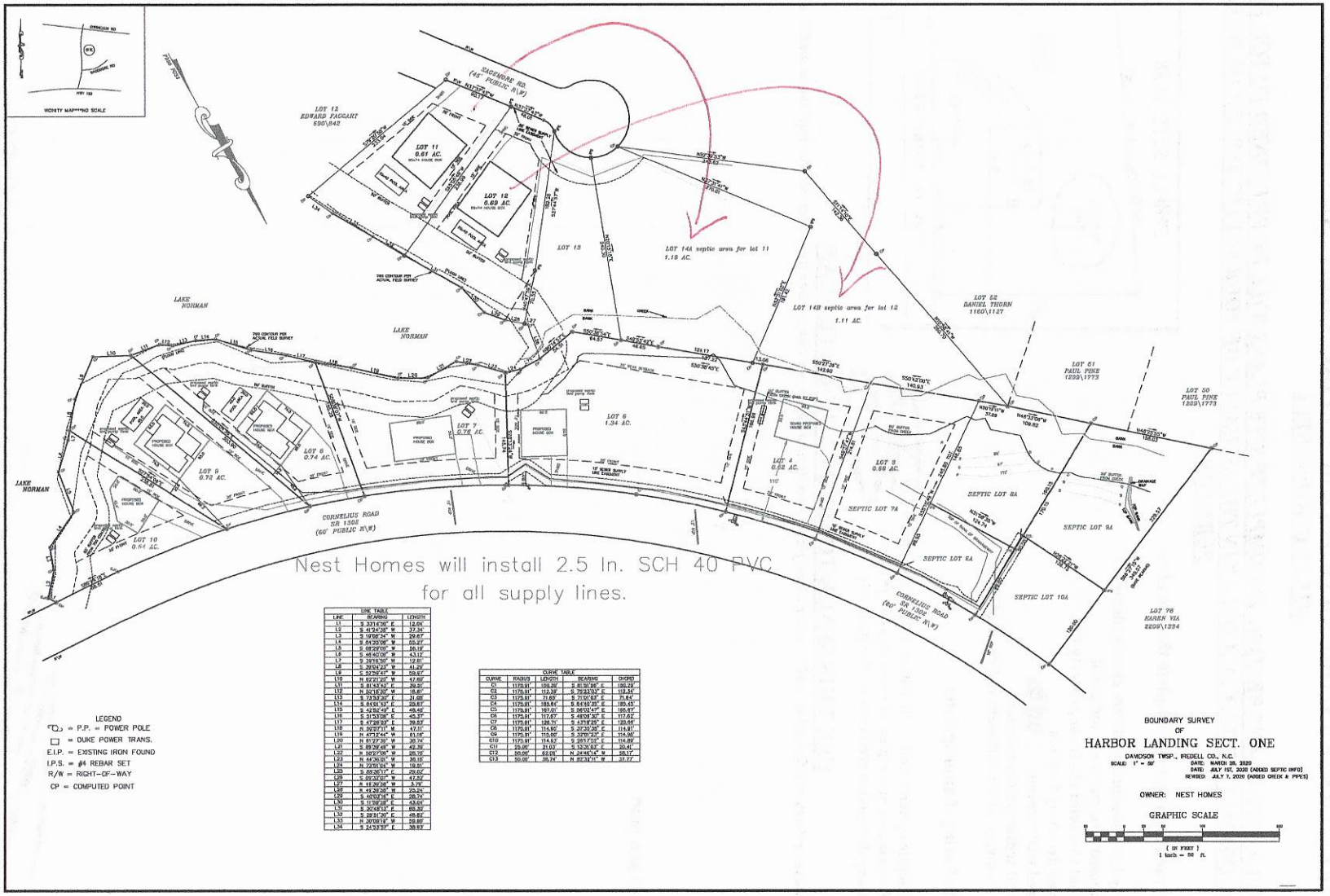
☐ IMPROVEMENT PERMIT *with plat valid without expiration.* ☒ IMPROVEMENT PERMIT *with site plan valid for 60 mos.* ☒ AUTHORIZATION TO CONSTRUCT *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: ___ Date: 7/24/2020 Installed by: West Homes.

IMPROVEMENT PERMIT by: Chaila Logan Date: 7/22/2020 OPERATION PERMIT by: Brian A Bott Date: 1-21-2021.

AUTHORIZATION TO CONSTRUCT by: Maria Logan Date: 7/24/2020 Existing System Inspected by: ___ Date: ___

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



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 33°14'06" E	12.61'
L2	S 41°24'38" W	37.34'
L3	S 18°08'34" W	29.67'
L4	S 84°20'08" W	50.27'
L5	S 69°29'09" W	56.19'
L6	S 46°40'08" W	43.12'
L7	S 39°16'30" W	12.81'
L8	S 39°01'43" W	41.49'
L9	S 52°59'47" W	59.67'
L10	N 82°21'20" W	47.86'
L11	S 81°43'43" E	39.91'
L12	N 83°18'20" W	16.61'
L13	S 74°53'30" E	31.68'
L14	S 84°01'53" E	28.61'
L15	S 42°52'49" E	48.46'
L16	S 51°33'08" E	45.37'
L17	S 47°28'03" E	39.83'
L18	N 59°27'11" W	47.11'
L19	N 47°12'46" W	61.18'
L20	N 61°27'32" W	30.74'
L21	S 89°39'48" W	42.38'
L22	N 50°27'08" W	28.75'
L23	N 44°36'31" W	36.15'
L24	N 23°01'04" W	19.91'
L25	S 89°26'17" E	29.05'
L26	S 09°43'00" W	47.82'
L27	S 11°26'38" W	3.75'
L28	N 41°26'38" E	29.24'
L29	S 40°02'38" E	28.74'
L30	S 11°39'18" E	43.64'
L31	S 30°48'12" E	68.39'
L32	S 28°31'30" E	48.82'
L33	N 30°08'18" W	39.89'
L34	S 24°33'59" E	38.93'

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	1175.91'	139.29'	S 81°31'26" E	139.28'
C2	1175.91'	112.59'	S 75°33'53" E	112.54'
C3	1175.91'	71.85'	S 71°01'03" E	71.84'
C4	1175.91'	189.91'	S 64°40'25" E	189.45'
C5	1175.91'	167.01'	S 56°01'47" E	166.87'
C6	1175.91'	117.67'	S 48°08'30" E	117.62'
C7	1175.91'	180.71'	S 43°16'25" E	180.09'
C8	1175.91'	114.99'	S 37°23'35" E	114.91'
C9	1175.91'	115.05'	S 30°31'23" E	114.96'
C10	1175.91'	114.93'	S 23°37'33" E	114.89'
C11	25.00'	21.03'	S 13°34'03" E	20.41'
C12	50.00'	62.06'	N 24°45'14" W	58.17'
C13	50.00'	36.74'	N 82°34'31" W	35.77'

Harbor Landing proposed septic supply line runs. All septic supply lines should be installed per 15A NCAC 18A .1900 Sewage Treatment and Disposal Systems Rules. Rule .1950 Location of Sanitary Sewage Systems is attached. Follow setbacks in attached rule for crossing storm drains from culverts and for water line crossings. Recommend installing septic supply line deeper than other utilities to prevent future damage to supply lines (approx. 60 in deep). Nest Homes has indicated that all pipes will be installed with 2.5 in. SCH 40 PVC. All pipes shall be SCH 40 PVC unless otherwise specified by a PE or the ICHD.

Color code and write lot number on each pipe joint. Use tracer wire and warning tape in trench. Provide as-built of pipe installation. Stub out pipe runs at least 5 ft on lots and septic areas.

The ICHD will require a separate Construction Authorization to install the septic supply lines in the common Easement. July 13, 2020

RECEIVED JUL 2 0 2020

AP- 309241
$1200.00

ADD. LOT SEPTIC SUPPLY LINES

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit X Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable X Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Nest Communities, LLC Address: 236 Raceway, Suite 7, Mooresville, NC Zip: 28117

Applicant Email: mwetter@nesthomes.com Phone: 704.433.9947 Alt. Phone: _____

Owner Name: Stanley F. Goodman Address: 275 Cornelius Rd, Mooresville, NC Zip: 28117

Owner Email: 504carolinabeach@gmail.com Phone: 704-657-6152 Alt. Phone: _____

Property Information:

Street Address: 931 Cornelius and Sagemore 6,7,8,9,10,11,12

Subdivision Name: Harbor Landing Section/Phase: 1 Lot Number: _____

Driving Directions: Highway 21 North, L Cornelius, on left before Perth Road

Site Development Information: *(check or complete ALL that apply*

CHECK FOUNDATION TYPE

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

Maximum Number of Bedrooms: _____
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

( ) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:

( ) Yes X No Does the site contain any jurisdictional wetlands?
( ) Yes X No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes X No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

NOT IN EARLY LINE

Signature: _____ 7.13.20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

15A NCAC 18A .1950 LOCATION OF SANITARY SEWAGE SYSTEMS

(a) Every sanitary sewage treatment and disposal system shall be located at least the minimum horizontal distance from the following:

(1)	Any private water supply source, including any well or spring	100 feet;
(2)	Any public water supply source	100 feet;
(3)	Streams classified as WS-I	100 feet;
(4)	Waters classified as S.A.	100 feet, from mean high water mark;
(5)	Other coastal waters	50 feet, from mean high water mark;
(6)	Any other stream, canal, marsh, or other surface waters	50 feet;
(7)	Any Class I or Class II reservoir	100 feet, from normal pool elevation;
(8)	Any permanent storm water retention pond	50 feet, from flood pool elevation;
(9)	Any other lake or pond	50 feet, from normal pool elevation;
(10)	Any building foundation	5 feet;
(11)	Any basement	15 feet;
(12)	Any property line	10 feet;
(13)	Top of slope of embankments or cuts of 2 feet or more vertical height	15 feet;
(14)	Any water line	10 feet;
(15)	Drainage Systems:	
	(A) Interceptor drains, foundation drains, and storm water diversions	
	(i) upslope	10 feet,
	(ii) sideslope	15 feet, and
	(iii) downslope	25 feet;
	(B) Groundwater lowering ditches and devices	25 feet;
(16)	Any swimming pool	15 feet;
(17)	Any other nitrification field (except repair area)	20 feet;

(b) Ground absorption sewage treatment and disposal systems may be located closer than 100 feet from a private water supply, except springs and uncased wells located downslope and used as a source of drinking water, for repairs, space limitations, and other site-planning considerations but shall be located the maximum feasible distance and in no case less than 50 feet.

(c) Nitrification fields and repair areas shall not be located under paved areas or areas subject to vehicular traffic. If effluent is to be conveyed under areas subject to vehicular traffic, ductile iron or its equivalent pipe shall be used. However, pipe specified in Rule .1955 (e) may be used if a minimum of 30 inches of compacted cover is provided over the pipe.

(d) In addition to the requirements of Paragraph (a) of this Rule, sites to be used for subsurface disposal for design units with flows over 3,000 gallons per day, as determined in Rule .1949 (a) or (b) of this Section, which include one or more nitrification fields with individual capacities of greater than 1,500 gallons per day, shall be located at least the minimum horizontal distance from the following:

(1)	Any Class I or II reservoir or any public water supply source utilizing a shallow (under 50 feet) groundwater aquifer	500 feet;
(2)	Any other public water supply source, unless determined to utilize a confined aquifer	200 feet;
(3)	Any private water supply source, unless determined to utilize a confined aquifer	100 feet;
(4)	Waters classified as SA	200 feet, from mean high water mark;
(5)	Any waters classified as WS-I	200 feet;
(6)	Any surface waters classified as WS-II, WS-III, B, or SB	100 feet; and

(i) Septic tanks, lift stations, wastewater treatment plants, sand filters, and other pretreatment systems shall not be located in areas subject to frequent flooding (areas inundated at a ten-year or less frequency) unless designed and installed to be watertight and to remain operable during a ten-year storm. Mechanical or electrical components of treatment systems shall be above the 100-year flood level or otherwise protected against a 100-year flood.

History Note: *Authority G.S. 130A-335(e) and (f);*
Eff. July 1, 1982;
Amended Eff. January 1, 1990; October 1, 1982.