RESOURCE CONSERVATION DISTRICT ENCROACHMENT EXEMPTION APPLICATION

TOWN OF CHAPEL HILL
Planning Department
405 Martin Luther King Jr. Blvd
phone (919) 968-2728 *fax* (919) 969-2014
www.townofchapelhill.org

Parcel Identifier Number (PIN): 9870914489 & 9870919528 Date: 02/06/2020

Section A: Project Information

Project Name: Bridgepoint

Property Address: 2214 & 2312 Homestead Road, Chapel Hill, NC Zip Code: 27516

Existing Zoning District: R-5-C

Section B: Applicant, Owner and/or Contract Purchaser Information

Applicant Information (to whom correspondence will be mailed)

Name: Advanced Civil Design, Inc.

Address: 51 Kilmayne Drive, Suite 105

City: Cary State: NC Zip Code: 27511

Phone: 919-481-6290 Email: crice@advancedcivildesign.com

The undersigned applicant hereby certifies that, to the best of his knowledge and belief, all information supplied with this application is true and accurate.

Signature: Date:

Owner/Contract Purchaser Information:

☒ **Owner** ☐ **Contract Purchaser**

Name: CapKov Ventures, Inc.

Address: P.O. Box 16815

City: Chapel Hill State: NC Zip Code: 27516

Phone: 919-942-8005 (office) Email: ericbchupp@bellsouth.net
919-260-7262 (cell)

The undersigned applicant hereby certifies that, to the best of his knowledge and belief, all information supplied with this application is true and accurate.

Signature: E B Chupp Date: 2/3/2020

Submittal Requirements

Every application which proposes development or land-disturbing activities wholly or partially within the Resource Conservation District shall include the following, unless affirmatively exempted by the Town Manager in part or entirely, for the whole area covered by the application. The following must accompany your application. Failure to do so will result in your application being considered incomplete. For assistance with this application, please contact the Chapel Hill Planning Department (Planning) at (919)968-2728 or at planning@townofchapelhill.org. For detailed information, please refer to the Description of Detailed Information handout.

A. A utilities plan; ✓

B. A grading plan showing existing and final contours; ✓

C. A sedimentation and erosion control plan; ✓

D. A storm water management plan; ✓

E. A soils analysis; ✓

F. Plans view showing: the topography of the site at a minimum horizontal scale of 1:60, at two-foot contour intervals; the location of streams, watercourses, stormwater runoff channels, etc; the limits of the floodway and floodplain; existing or proposed storm and sanitary sewers and sewer outfalls; septic tank systems and outlets, if any; existing and proposed structures and development; the 100-year flood and RCD elevations and limits; and existing and proposed tree lines; ✓

G. Profile view showing: at a minimum horizontal scale of 1:60, and minimum vertical scale of 1:10, the elevations of the watercourses bed; waterway openings of existing and proposed culverts and bridges within or near the site; size and elevation of existing or proposed sewer and drain outlets; the 100-year water surface elevations and limits; and the elevation of the Resource Conservation District; N/A

H. A description of existing vegetation, including significant trees and shrubs; and a landscape plan for the completed development; ✓

I. A description of wildlife habitats, noting the types of habitat on site and their potential as habitats for various species of wild life and identifying any relevant limiting factors; ✓

J. Description of proposed storage of materials and of waste disposal facilities; ✓

K. Certificate from a registered professional engineer or architect with respect to floodproofing, or from a registered professional engineer or surveyor with respect to elevation, that any floodproofing measures on nonresidential uses or finished elevations meet the requirements of this article; N/A

L. Copies of notifications to and responses by adjacent communities, the North Carolina Department of Crime Control, or its successor agency, and Public Safety, and the Federal Emergency Management Agency, or its successor agency, regarding any proposed alteration or relocation of a riverine watercourse; N/A

M. The increase in elevation of the 100-year flood upstream from the development, velocity changes and rate of rise changes, runoff, water quality change, sediment deposit rate changes, and the duration of the flood. The Town Manager shall approve the methodology used to determine the changes; N/A

N. A list of owners of properties located within five hundred (500) feet of the subject property boundaries with the full name and address of each property owner, with stamped, pre-addressed mailing envelopes for each owner on the mailing list. N/A

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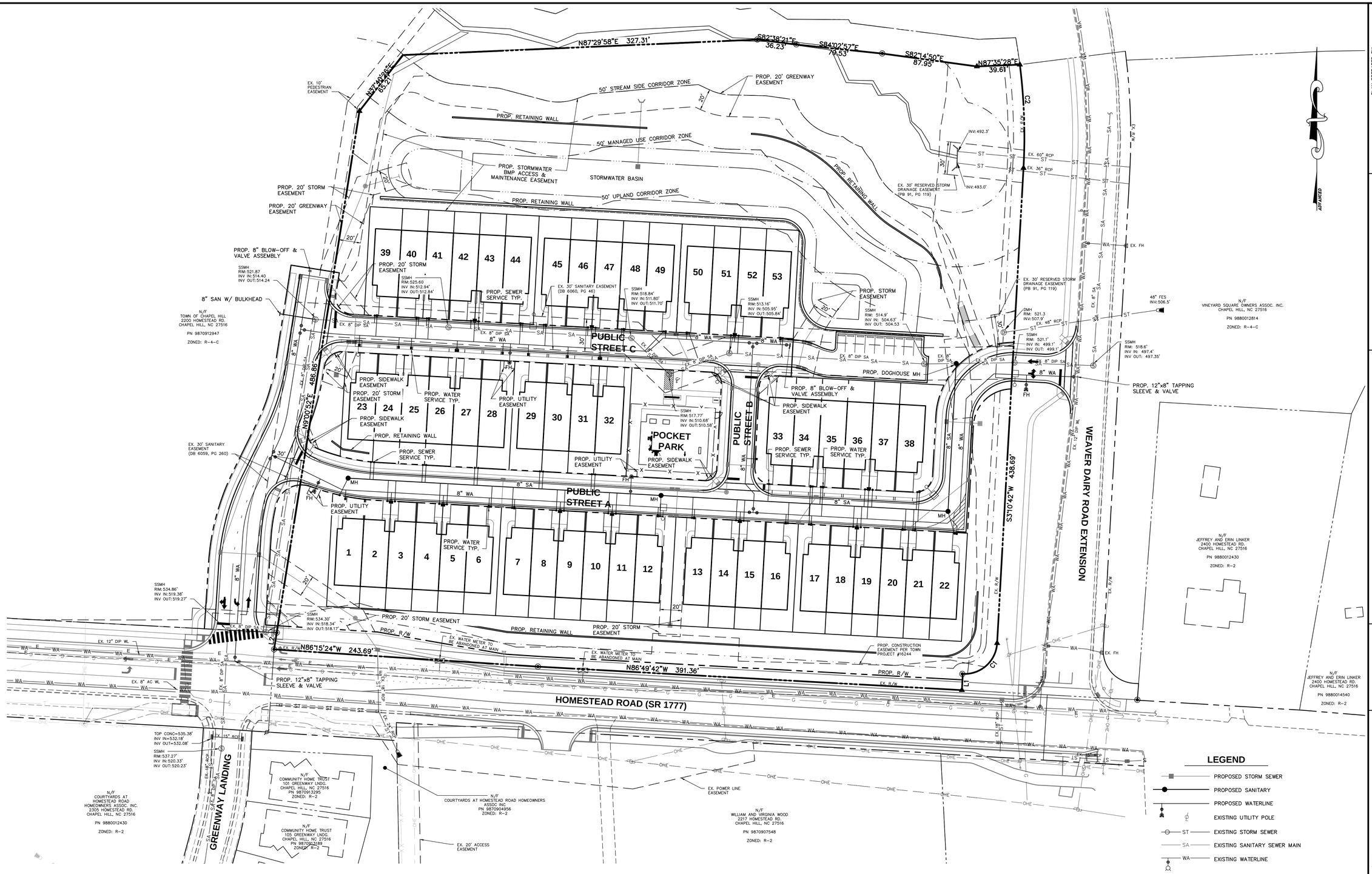

LINE TABLE		
LINE	LENGTH	BEARING
L1	15.00'	S03°10'42"W
L2	15.59'	N09°03'29"E

CURVE TABLE					
NO.	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	47.13'	30.00'	090°00'35"	42.43'	S48°10'42"W
C2	95.51'	524.12'	010°26'28"	95.38'	S02°01'38"E

MINIMUM REQUIRED FIRE FLOW	
SINGLE FAMILY (< 3,600 SF)	1,000 GAL/MIN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

PLAN PREPARED BY:

ADVANCED CIVIL DESIGN ENGINEERS SURVEYORS
51 Kilmayne Drive, Suite 105
Cary, North Carolina 27511
ph 919.481.6290
fax 919.336.5127

PLAN PREPARED FOR:

KB HOME CAROLINAS
4506 SOUTH MIAMI BLVD. SUITE 100A
DURHAM, NC 27703
PHONE: 919.768.7960

HOMESTEAD ROAD, CHAPEL HILL, NC – ORANGE COUNTY

BRIDGEPOINT

SPECIAL USE PERMIT MODIFICATION PLANS
FOR
KB HOME CAROLINAS

UTILITY PLAN

NORTH CAROLINA PROFESSIONAL SEAL 024 ENGINEER CAMERON M RICE
PRELIMINARY
02/06/2020

Issue Dates:
01/02/2020 – Initial Submittal to Town
02/06/2020 – Response to 1st Review SUP Comments

Date: 02/06/2020
Scale: 1" = 40'

Drawn By: JRR
Checked By: CMR

Project Number: 18–0001–978

Drawing Number: 9 / 16

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	Steep Slope Areas (sf)
Existing slopes 25% or greater (constructed)	14,992
Existing slopes 25% or greater (natural)	2,787
Existing slopes 25% or greater (total)	17,779
Percent of slopes 25% or greater (constructed)	84%
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Disturbed existing slopes 25% or greater (total)	9,712
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Percent of disturbed slopes 25% or greater (Total)	55%

	RCD Areas (sf)		
	50-ft Stream Side	50-ft Managed Use	50-ft Upland
RCD on Site	34,206	35,782	33,033
Previously disturbed with construction of Weaver Dairy Rd Ext.	6,088	7,635	3,000
Proposed public greenway	0	12,434	2,579
Buildings	0	0	0
Proposed land disturbance	0	26,350	31,591
Proposed land disturbance (excluding proposed public greenway)		13,916	26,012
Percent of land disturbance	0	74%	96%
Percent of land disturbance (excluding public greenway)		**39%**	**79%**
Percent of disturbance per Table 3.6.3-3	20%	40%	40%

GENERAL NOTES:

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THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.

PERMANENT GROUND COVER WILL BE ESTABLISHED IN 7 TO 14 WORKING DAYS PER NPDES REQUIREMENTS. REFER TO APPROVED SEDIMENT AND EROSION CONTROL PLANS.

CUT/FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING.

A PRE-CONSTRUCTION CONFERENCE WILL BE REQUIRED PRIOR TO THE GRADING PERMIT BEING ISSUED.

STREETS ADJACENT TO THIS PROJECT TO BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

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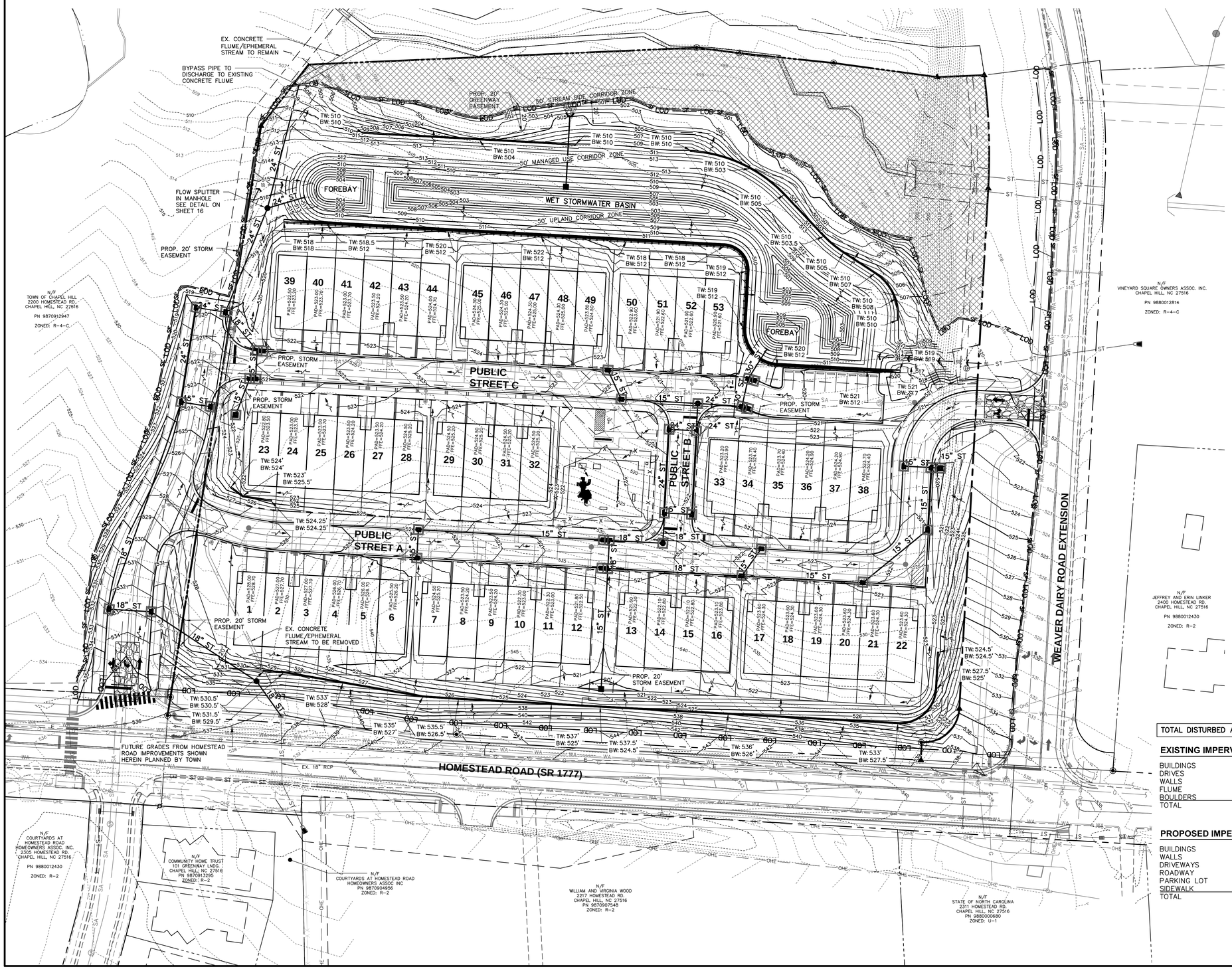

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- EXISTING CONTOUR – 5'
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED CONTOUR – 1'
- PROPOSED CONTOUR – 5'
- PROPOSED SILT FENCE
- SILT FENCE OUTLET PROTECTION
- LIMITS OF DISTURBANCE
- SILT FENCE
- INLET PROTECTION
- DIVERSION DITCH
- DIVERSION BERM
- TREE SAVE AREA
- CONSTRUCTION ENTRANCE

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

PROJECT NOTES

1. ALL EASEMENTS WITH PIPES AND/OR STRUCTURES SHALL BE CLEARED, GRUBBED AND SEEDED.
2. EXISTING VEGETATION AND NATURAL AREAS SHALL BE PROTECTED TO THE GREATEST EXTENT POSSIBLE AND THAT MINIMUM CLEARING OF LAND SHALL BE UNDERTAKEN DURING DEVELOPMENT. EXISTING TREES TO BE PROTECTED TO THE GREATEST EXTENT POSSIBLE OUTSIDE OF THE LIMITS OF GRADING FOR PROPOSED RIGHT-OF-WAY.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS, LATEST EDITIONS.
4. CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING PUBLIC UTILITIES PRIOR TO ANY EXCAVATIONS, GRADING, OR INSTALLATION OF UNDERGROUND UTILITIES ON OR ADJACENT TO THE PROJECT.
5. NO CLEARING IN TREE SAVE AREAS OR ANY OTHER DESIGNATED AREAS.

SEEDING SCHEDULE

MIXTURE

AGRICULTURAL LIMESTONE	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)	
FERTILIZER	1,000 LBS/ACRE 10-10-10	
SUPERPHOSPHATE	500 LBS/ACRE 20% ANALYSIS	
MULCH	2 TONS/ACRE SMALL GRAIN STRAW	
ANCHOR	ASPHALT EMULSION AT 300 GALS/ACRE	

FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1):

DATE	TYPE	PLANTING RATE
AUG 15 NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE
MAR 1 APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 AUG 15	TALL FESCUE AND BROWNTOP	125 LBS/ACRE (TALL FESCUE)
	MILLET OR SORGHUM-SUDAN HYBRIDS***	35 LBS/ACRE (BROWNTOP MILLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)

FOR SHOULDERS, SIDE DITCHES, SLOPES (3:1 TO 2:1):

DATE	TYPE	PLANTING RATE
MAR 1 JUN 1	SERICEA LESPEDEZA (SCARIFIED) & USE THE FOLLOWING COMBINATIONS	50 LBS/ACRE (SERICEA LESPEDEZA);
MAR 1 APR 15	ADD TALL FESCUE	120 LBS/ACRE
MAR 1 JUN 30	OR ADD WEEPING LOVE GRASS	10 LBS/ACRE
MAR 1 JUN 30	OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUN 1 SEPT 1	TALL FESCUE AND BROWNTOP MULLET OR SORGHUM-SUDAN HYBRIDS***	120 LBS/ACRE (TALL FESCUE) 35 LBS/ACRE (BROWNTOP MULLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)
SEPT 1 MAR 1	SERICEA LESPEDEZA (UNHULLED – UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE (SERICEA LESPEDEZA) 120 LBS/ACRE (TALL FESCUE)
NOV 1 MAR 1	AND ABRUZZI RYE	25 LBS/ACRE

THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE. *** TEMPORARY: RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

SEDIMENT & EROSION CONTROL NOTES

1. ALL STORMWATER PIPES THAT DO NOT EMPTY INTO A BASIN SHALL NOT BE INSTALLED UNTIL SITE IS STABILIZED ABOVE THESE AREAS.
2. BAFFLES ARE REQUIRED ON ALL BASINS THAT HAVE A DRAINAGE AREA GREATER THAN 5 ACRES.
3. SILT FENCE OUTLET PROTECTION SHALL BE PLACED AT ALL LOW POINTS ALONG SILT FENCE TO KEEP WATER FILTER AND PASS THROUGH.
4. STORMWATER BASINS TO ACT AS SEDIMENT BASINS. SEE CALCULATIONS ON THIS SHEET FOR SIZING.

CONSTRUCTION SEQUENCE

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH ORANGE COUNTY EROSION CONTROL DIVISION. OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ORANGE COUNTY EROSION CONTROL DIVISION AT 919-245-2586 FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ORANGE COUNTY EROSION CONTROL DIVISION FOR AN INSPECTION BY THE WATERSHED MANAGER.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER. OBTAIN A CERTIFICATE OF COMPLETION.

TOTAL DISTURBED AREA = 8.2 AC.

EXISTING IMPERVIOUS SURFACES

BUILDINGS	= 8,510	SF
DRIVES	= 9,777	SF
WALLS	= 138	SF
FLUME	= 1,710	SF
BOULDERS	= 118	SF
TOTAL	= 20,253	SF

PROPOSED IMPERVIOUS SURFACES

BUILDINGS	= 76,479	SF
WALLS	= 2,273	SF
DRIVEWAYS	= 16,929	SF
ROADWAY	= 45,997	SF
PARKING LOT	= 4,687	SF
SIDEWALK	= 18,290	SF
TOTAL	= 164,655	SF

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HOMESTEAD ROAD, CHAPEL HILL, NC – ORANGE COUNTY
BRIDGEPOINT
SPECIAL USE PERMIT MODIFICATION PLANS
FOR
KB HOME CAROLINAS
SOIL & EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL SEAL 024 ENGINEER CAMERON M RICE
PRELIMINARY
02/06/2020

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Soil Map—Orange County, North Carolina

Map Scale: 1:1,550 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Orange County, North Carolina
Survey Area Data: Version 18, Sep 10, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 27, 2014—May 6, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EnC	Enon loam, 6 to 12 percent slopes	0.5	5.4%
GeB	Georgeville silt loam, 2 to 6 percent slopes	1.0	12.1%
GeC	Georgeville silt loam, 6 to 10 percent slopes	6.9	82.5%
Totals for Area of Interest		**8.3**	**100.0%**

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Orange County, North Carolina

EnC—Enon loam, 6 to 12 percent slopes

Map Unit Setting

National map unit symbol: 3tqm
Elevation: 200 to 1,400 feet

Mean annual precipitation: 37 to 60 inches
Mean annual air temperature: 59 to 66 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Enon and similar soils: 85 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Enon

Setting

Landform: Hillslopes on ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Saprolite derived from diorite and/or gabbro and/or diabase and/or gneiss

Typical profile

A - 0 to 3 inches: fine sandy loam
E - 3 to 8 inches: fine sandy loam
BE - 8 to 11 inches: sandy clay loam
Bt - 11 to 33 inches: clay
C - 33 to 80 inches: loam

Properties and qualities

Slope: 6 to 10 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 8.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Wynott

Percent of map unit: 4 percent
Landform: Hillslopes on ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Wedowee

Percent of map unit: 3 percent
Landform: Hillslopes on ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Cecil

Percent of map unit: 1 percent
Landform: Interfluves
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

GeB—Georgeville silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2vy6v
Elevation: 160 to 820 feet
Mean annual precipitation: 43 to 47 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 230 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Georgeville and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Georgeville

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from metavolcanics and/or residuum weathered from argillite and/or residuum weathered from phyllite and/or residuum weathered from sericite schist

Typical profile

Ap - 0 to 9 inches: silt loam
E - 9 to 14 inches: silt loam

Bt1 - 14 to 20 inches: silty clay loam
Bt2 - 20 to 27 inches: clay
Bt3 - 27 to 49 inches: silty clay
BCt - 49 to 57 inches: silty clay loam
C - 57 to 62 inches: silt loam

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Tarrus

Percent of map unit: 10 percent
Landform: Interfluves
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

GeC—Georgeville silt loam, 6 to 10 percent slopes

Map Unit Setting

National map unit symbol: 2vy6n
Elevation: 160 to 820 feet
Mean annual precipitation: 43 to 47 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 230 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Georgeville and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Georgeville

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from metavolcanics and/or residuum weathered from argillite and/or residuum weathered from phyllite and/or residuum weathered from sericite schist

Typical profile

Ap - 0 to 7 inches: silt loam
BE - 7 to 10 inches: silty clay loam
Bt - 10 to 44 inches: clay
BC - 44 to 53 inches: silty clay loam
C - 53 to 80 inches: loam

Properties and qualities

Slope: 6 to 10 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Tarrus

Percent of map unit: 10 percent
Landform: Interfluves
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Data Source Information

Soil Survey Area: Orange County, North Carolina
Survey Area Data: Version 18, Sep 10, 2018

LINE TABLE		
LINE	LENGTH	BEARING
L1	15.00'	S03°10'42"W
L2	15.59'	N09°03'29"E

CURVE TABLE					
NO.	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	95.51'	524.12'	010°26'28"	95.38'	S02°01'38"E
C2	47.13'	30.00'	090°00'35"	42.43'	S48°10'42"W

LEGEND

- Concrete Post
- Tacked Hub / Trav Pt
- Post Sign / Lamp
- Sign
- Billboard / OH Sign
- Deciduous Tree
- Pine Tree
- Shrub
- Sanitary Manhole
- Cleanout Access
- Storm Manhole
- Catch Basin
- Curb Inlet W / Grate
- Gas Valve
- Overhead Telephone
- Overhead Electric
- Electric Manhole
- Electric Transformer
- Comm Manhole
- Tel Pedestal
- Pole Elec
- Pole Elec Tel
- Pole Elec Tel Light
- Pole Tel
- Pole Tel Light
- Pole Light
- Pole Signal
- Traffic Box
- Guy Pole
- Guy Wire
- Gas Meter
- Underground Line Marker
- Sprinkler Valve Box
- Misc. Manhole
- Iron Pipe Found
- Iron Rod Found
- PK Nail Found
- RR Spike Found
- Fence Post Found
- Stone Found
- Conc. Monument Found
- Monument Box Found
- Underground Gas
- Ex. Property Boundary
- ℄ of Road
- Fire Hydrant
- Water Valve
- Mailbox
- Monitoring Well
- Iron Pin Set
- PK Nail Set
- RR Spike Set

Iron pins set are 3/4" diameter iron pipe, 30" long and capped Advanced 7661.

- Fence
- Underground Electric
- Ex. Sanitary
- Ex. Waterline
- Ex. Soil Type Boundary
- ℄ of Stream
- Ex. Edge of Pavement

[ ] Denotes Record Call

SITE DESCRIPTION & ANALYSIS

THE PROPOSED SITE IS HEAVILY WOODED WITH A SITE AREA OF 8.15 ACRES.

THE SOUTHERN PORTION OF THE SITE INCLUDES THREE EXISTING HOUSES WITH ASSOCIATED GRAVEL DRIVES AND IS BOUNDED BY APPROXIMATELY 636 FEET OF FRONTAGE ALONG HOMESTEAD ROAD TO THE SOUTH.

THE WESTERN PORTION OF THE SITE IS BOUNDED TO THE WEST BY A DEVELOPMENT OWNED BY THE TOWN OF CHAPEL HILL TO BE PLANNED AS A MIXED-INCOME RESIDENTIAL COMMUNITY.

THE NORTHERN PORTION OF THE SITE HAS AN EXISTING STREAM CUTTING THROUGH THE NORTH EASTERN CORNER. THERE IS AN EXISTING HOUSE AND ASSOCIATED DRIVE ON THE NORTHWEST PORTION OF THE SITE THAT PROVIDES ACCESS TO HOMESTEAD ROAD.

THE EASTERN PORTION OF THE SITE HAS APPROXIMATELY 535 FEET OF FRONTAGE ALONG WEAVER DAIRY ROAD.

THE SITE PRIMARILY DRAINS FROM THE SOUTH TO THE NORTH TO AN INTERMITTENT STREAM.

CONSTRUCTION WASTE STANDARD NOTES

ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER IN SIZE SHALL BE ASSESSED PRIOR TO DEMOLITION TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RRMO) AND TO ASSESS THE POTENTIAL FOR DE-CONSTRUCTION AND/OR THE RE-USE OF SALVAGEABLE MATERIALS.

BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.

BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE THAT INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.

PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH THE SOLID WASTE STAFF. THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.

THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ('ACM') AND/OR OTHER HAZARDOUS MATERIALS IN CONSTRUCTION AND DEMOLITION WASTE SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.

EXISTING IMPERVIOUS SURFACES

BUILDINGS	= 8,510	SF
DRIVES	= 9,777	SF
WALLS	= 138	SF
FLUME	= 1,710	SF
BOULDERS	= 118	SF
TOTAL	= 20,253	SF

FLOOD NOTE

By graphic plotting only this property is located in Zone X (areas determined to be outside of the 0.2% annual chance floodplain) by the Federal Emergency Management Agency on Flood Insurance Rate Map, Community Panel No. 3710987000K, with an effective date of 11/17/2017, in Orange County, North Carolina. No field surveying was performed to determine this zone

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GENERAL NOTES

1) Areas calculated by coordinate geometry.
2) All distances are horizontal ground distances.
3) Basis of Bearing NC GRID 1983 Horizontal Datum & Vertical Datum NAD-88.
4) Boundary information shown hereon was prepared by John R. McAdams Company.
5) Dimensions on this plat are e expressed in feet and decimal parts thereof unless otherwise noted. Monuments were found at points where indicated.

REFERENCES:

D.B. 6433, Pg. 183
D.B. 5941, Pg. 562
D.B. 6059, Pg. 260
D.B. 6060, Pg. 046
P.B. 0091, Pg. 119
P.B. 0116, Pg. 87

PLAN PREPARED BY:
ADVANCED CIVIL DESIGN ENGINEERS SURVEYORS
51 Kilmayne Drive, Suite 105
Cary, North Carolina 27511
ph 919.481.6290
fax 919.336.5127

PLAN PREPARED FOR:
KB HOME CAROLINAS
4506 SOUTH MIAMI BLVD, SUITE 100A
DURHAM, NC 27703
PHONE: 919.768.7960

HOMESTEAD ROAD, CHAPEL HILL, NC – ORANGE COUNTY
BRIDGEPOINT
SPECIAL USE PERMIT MODIFICATION PLANS
FOR
KB HOME CAROLINAS
EXISTING CONDITIONS PLAN

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER CAMERON M. RISE
PRELIMINARY
02/06/2020

Issue Dates:
01/02/2020 – Initial Submittal to Town
02/06/2020 – Response to 1st Review SUP Comments

Date: 02/06/2020
Scale: 1" = 40'

Drawn By: JRR
Checked By: CMR

Project Number:
18–0001–978

Drawing Number:
3 / 16

G:\18-0001-978NC\DWG\Production Drawings\DEVELOPMENT PLAN\0001-978-SUP03.dwg EXISTING CONDITIONS PLAN Feb 06, 2020 – 12:39:17pm akring

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map flood hazard areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://FRIS.NC.GOV/FRIS

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) *Zone A, V, A99*
	With BFE or Depth *Zone AE, AO, AH, VE, AR*
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile *Zone X*
	Future Conditions 1% Annual Chance Flood Hazard *Zone X*
	Area with Reduced Flood Risk due to Levee See Notes *Zone X*
OTHER AREAS	Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Accredited or Provisionally Accredited Levee, Dike, or Floodwall
	Non-accredited Levee, Dike, or Floodwall
	BM5510 North Carolina Geodetic Survey bench mark
	BM5510 National Geodetic Survey bench mark
	BM5510 Contractor Est. NCFMP Survey bench mark
	012 18.2 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
OTHER FEATURES	Hydrographic Feature
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at http://www.ncfloodmaps.com, or contact the FEMA Map Service Center.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Flood Insurance Study (FIS) means an examination, evaluation, and determination of flood hazards, corresponding water surface elevations, flood hazard risk zones, and other flood data in a community issued by the North Carolina Floodplain Mapping Program (NCFMP). The Flood Insurance Study (FIS) is comprised of the following products used together: the Digital Flood Hazard Database, the Water Surface Elevation Rasters, the digitally derived, autogenerated Flood Insurance Rate Map and the Flood Insurance Survey Report. A Flood Insurance Survey is a compilation and presentation of flood risk data for specific watercourses, lakes, and coastal flood hazard areas within a community. This report contains detailed flood elevation data, data tables and FIRM indices. When a flood study is completed for the NFIP, the digital information, reports and maps are assembled into an FIS. Information shown on this FIRM is provided in digital format by the NCFMP. Base map information shown on this FIRM was provided in digital format by the NCFMP. The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

ACCREDITED LEVEE NOTES TO USERS: If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Limit of Moderate Wave Action (LiMWA)

COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE

This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see http://www.fws.gov/cbra, the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.

CBRS Area

Otherwise Protected Area

SCALE

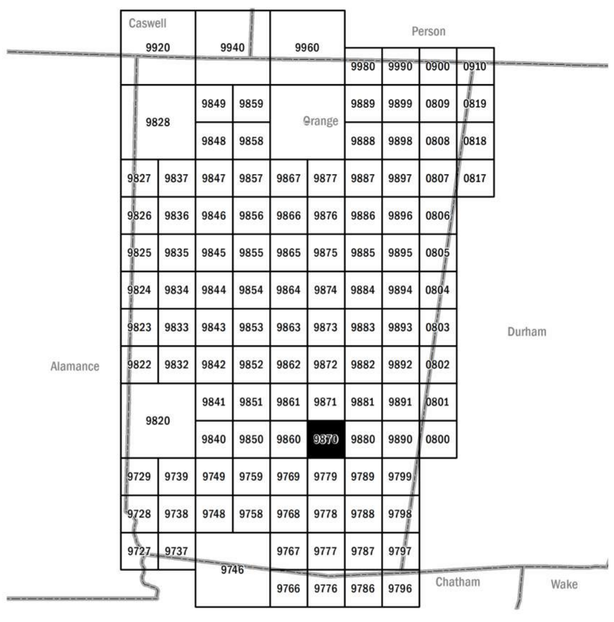
Map Projection:
North Carolina State Plane Projection Feet (Zone 3200)
Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL **9870**

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
CARRBORO, TOWN OF	370275	9870	K
CHAPEL HILL, TOWN OF	370180	9870	K
ORANGE COUNTY	370342	9870	K

VERSION NUMBER
2.3.3.2

MAP NUMBER
3710987000K

MAP REVISED
November 17, 2017

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	With BFE or Depth *Zone AE, AO, AH, VE, AR*
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile *Zone X*
	Future Conditions 1% Annual Chance Flood Hazard *Zone X*
	Area with Reduced Flood Risk due to Levee See Notes *Zone X*
OTHER AREAS	Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Accredited or Provisionally Accredited Levee, Dike, or Floodwall
	Non-accredited Levee, Dike, or Floodwall
	BM5510 North Carolina Geodetic Survey bench mark
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	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
OTHER FEATURES	Hydrographic Feature
	Limit of Study
	Jurisdiction Boundary

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Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Flood Insurance Study (FIS) means an examination, evaluation, and determination of flood hazards, corresponding water surface elevations, flood hazard risk zones, and other flood data in a community issued by the North Carolina Floodplain Mapping Program (NCFMP). The Flood Insurance Study (FIS) is comprised of the following products used together: the Digital Flood Hazard Database, the Water Surface Elevation Rasters, the digitally derived, autogenerated Flood Insurance Rate Map and the Flood Insurance Survey Report. A Flood Insurance Survey is a compilation and presentation of flood risk data for specific watercourses, lakes, and coastal flood hazard areas within a community. This report contains detailed flood elevation data, data tables and FIRM indices. When a flood study is completed for the NFIP, the digital information, reports and maps are assembled into an FIS. Information shown on this FIRM is provided in digital format by the NCFMP. Base map information shown on this FIRM was provided in digital format by the NCFMP. The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

ACCREDITED LEVEE NOTES TO USERS: If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Limit of Moderate Wave Action (LiMWA)

COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE

This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see http://www.fws.gov/cbra, the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.

CBRS Area

Otherwise Protected Area

SCALE

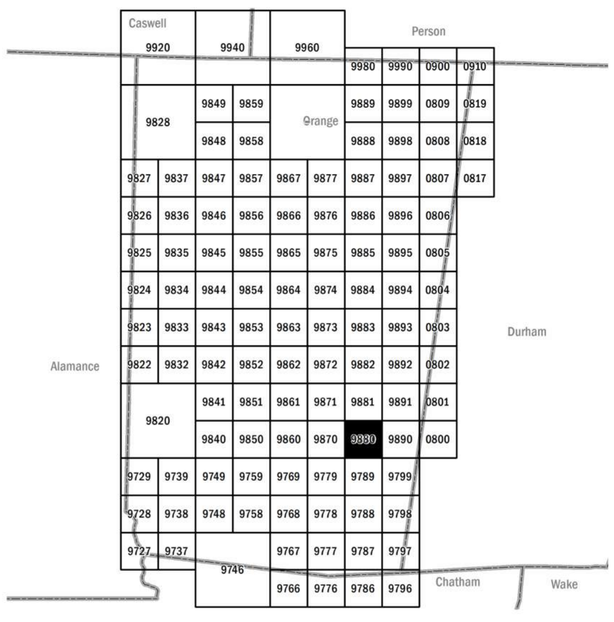
Map Projection:
North Carolina State Plane Projection Feet (Zone 3200)
Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL **9880**

FEMA

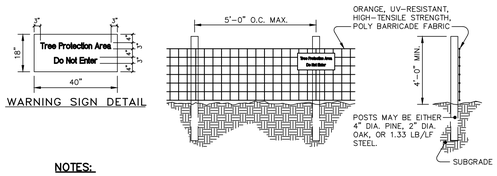
Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
CHAPEL HILL, TOWN OF	370180	9880	K
ORANGE COUNTY	370342	9880	K

VERSION NUMBER
2.3.3.2

MAP NUMBER
3710988000K

MAP REVISED
November 17, 2017



WARNING SIGN DETAIL

NOTES:

- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL..
- LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
- PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
- FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
- MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY THE TOWN OF CHAPEL HILL INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.

MAINTENANCE:

- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

TREE PROTECTION FENCE

NOT TO SCALE

TREE LEGEND

15 BE	BEECH	
24 B	BIRCH	
11 C	CEDAR	EXISTING TREE TO BE REMOVED
20 DG	DOGWOOD	
20 E	ELM	
24 G	SWEET GUM	
7 H	HICKORY	
13 M	MAPLE	EXISTING TREE TO REMAIN
24 RO	RED OAK	
15 O	OAK	
23 P	PINE	LOD — LIMITS OF DISTURBANCE
15 PO	POPLAR	
13 SY	SYCAMORE	TPF — TREE PROTECTION FENCE
10 HO	HOLLY	
DOUBLE AND TRIPLE TRUNKS		
39 D-PO	DOUBLE POPLAR	

TREE CANOPY REPRESENTED 1" PER 1" CALIPER OF TREE

TREE PROTECTION NOTES

1) A PRE-CONSTRUCTION CONFERENCE WILL BE HELD WITH THE TOWN'S URBAN FORESTER, ADAM NICHOLSON (919.969.5006), PRIOR TO BEGINNING SITE WORK.
2) ANY TREE ROOTS EXPOSED BY CONSTRUCTION WILL BE SEVERED CLEANLY WITH AN APPROPRIATE PRUNING TOOL.
3) THE SOIL WITHIN THE CRITICAL ROOT ZONES OF EXISTING TREES WILL NOT BE DRIVEN ON OR OTHERWISE DISTURBED DURING THE INSTALLATION OF LANDSCAPING.
4) A LANDSCAPE PROTECTION SUPERVISOR WHO IS REGISTERED WITH THE TOWN OF CHAPEL HILL WILL BE PRESENT ON SITE AT ALL TIMES WHEN THE FOLLOWING ACTIVITIES ARE TAKING PLACE: CLEARING, GRUBBING, EXCAVATION, GRADING, TRENCHING, MOVING OF SOIL, INSTALLATION AND REMOVAL OF TREE PROTECTION FENCING, AND THE DELIVERY TRANSPORTING AND PLACEMENT OF CONSTRUCTION MATERIALS AND EQUIPMENT.
5) CONTACT ADAM NICHOLSON FOR TREE PROTECTION SEMINAR PRIOR TO TREE PROTECTION FENCE INSTALLATION
6) TREES LOCATED OUTSIDE OF THE CLEARING LIMITS AND ON LOTS ARE SHOWN AS BEING REMOVED. HOWEVER, THESE TREES WILL REMAIN DURING THE INITIAL INFRASTRUCTURE CONSTRUCTION PHASE BY THE DEVELOPER. WHEN THE BUILDER SUBMITS FOR PERMITS, THE BUILDER WILL DETERMINE WHICH TREES ON THE LOTS MUST BE REMOVED DURING HOME CONSTRUCTION. TREES LOCATED ON LOT LINES OR AT REAR OF LOTS WILL BE SAVED TO THE GREATEST EXTENTS POSSIBLE.

CONSTRUCTION WASTE:

- BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL AND CORRUGATED CARDBOARD, ALL PRESENT IN CONSTRUCTION WASTE, MUST BE RECYCLED.
- BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF CONSTRUCTION WASTE MUST BE PROPERLY LICENSED.
- PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT WILL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY'S SOLID WASTE STAFF. THIS MAY BE THE SAME MEETING HELD WITH OTHER DEVELOPMENT OFFICIALS.

LINE TABLE

LINE	LENGTH	BEARING
L1	15.00'	S03°10'42"W
L2	15.59'	N09°03'29"E

CURVE TABLE

NO.	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	95.51'	524.12'	010°26'28"	95.38'	S02°01'38"E
C2	47.13'	30.00'	090°00'35"	42.43'	S48°10'42"W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

PLAN PREPARED BY:
ADVANCED CIVIL DESIGN ENGINEERS SURVEYORS
51 Kilmayne Drive, Suite 105
Cary, North Carolina 27511
ph 919.481.6290
fax 919.336.5127

PLAN PREPARED FOR:
KB HOME CAROLINAS
4506 SOUTH MIAMI BLVD, SUITE 100A
DURHAM, NC 27703
PHONE: 919.768.7960

HOMESTEAD ROAD, CHAPEL HILL, NC - ORANGE COUNTY
BRIDGEPOINT
SPECIAL USE PERMIT MODIFICATION PLANS
FOR
KB HOME CAROLINAS
LANDSCAPE PROTECTION & TREE SURVEY PLAN

NORTH CAROLINA PROFESSIONAL SEAL 042 ENGINEER CAMERON M. RICE
PRELIMINARY
02/06/2020

Issue Dates:
01/02/2020 - Initial Submittal to Town
02/06/2020 - Response to 1st Review SUP Comments

Date: 02/06/2020
Scale: 1" = 30'

Drawn By: JRR
Checked By: CMR

Project Number: 18-0001-978

Drawing Number: 10 / 16

O:\18-0001-978NC\DWG\Production Drawings\DEVELOPMENT PLAN\0001-978-SUP10.dwg LANDSCAPE PROTECTION & TREE SURVEY PLAN Feb 06, 2020 - 12:40:57pm dkring

AREA 'A' BUFFER REQUIREMENTS

TYPE "B" 15–FT EXTERNAL BUFFER
581 LF TOTAL LENGTH
LESS 43 LF OF DRIVEWAY
LESS 59 LF OF EASEMENTS
APPLICABLE LENGTH = 479 LF

REQUIRED:	PROPOSED
29 LG TREES	29 LG TREES
39 SM TREES	39 SM TREES
72 SHRUBS	72 SHRUBS

NOTES:
(1) THIS BUFFER HAS BEEN REDUCED BY ONE GRADE OF INTENSITY ('C' TO 'B') SINCE THE DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE IS NO PARKING BETWEEN THE BUILDINGS LOCATED ON THE SITE AND THE ADJACENT STREET.

(2) AT LEAST 50% OF REQUIRED SHRUBS MUST BE EVERGREEN

AREA 'B' BUFFER REQUIREMENTS

TYPE "C" 20–FT EXTERNAL BUFFER
645 LF TOTAL LENGTH
LESS 55 LF OF EASEMENTS
APPLICABLE LENGTH = 590 LF

REQUIRED:	PROPOSED
30 LG TREES	30 LG TREES
59 SM TREES	59 SM TREES
213 SHRUBS	213 SHRUBS

NOTES:
(1) THIS BUFFER HAS BEEN REDUCED BY ONE GRADE OF INTENSITY ('D' TO 'C') SINCE THE DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE IS NO PARKING BETWEEN THE BUILDINGS LOCATED ON THE SITE AND THE ADJACENT STREET.

(2) AT LEAST 50% OF REQUIRED SHRUBS MUST BE EVERGREEN

AREA 'C' BUFFER REQUIREMENTS

TYPE "B" 15–FT INTERNAL MODIFIED BUFFER
314 LF TOTAL LENGTH
LESS 54 LF OF DRIVEWAY
LESS 36 LF OF EASEMENTS
APPLICABLE LENGTH = 224 LF

REQUIRED:	PROPOSED
5 LG TREES	5 LG TREES
5 SM TREES	5 SM TREES
14 SHRUBS	14 SHRUBS

NOTES:
(1) THIS BUFFER HAS BEEN REDUCED BY ONE GRADE OF INTENSITY ('C' TO 'B') SINCE THE DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE IS NO PARKING BETWEEN THE BUILDINGS LOCATED ON THE SITE AND THE ADJACENT STREET.

(2) AT LEAST 50% OF REQUIRED SHRUBS MUST BE EVERGREEN

AREA 'D' BUFFER REQUIREMENTS

TYPE "A" 15–FT INTERNAL MODIFIED BUFFER
215 LF TOTAL LENGTH
LESS 15 LF OF EXISTING VEGETATION
LESS 200 LF OF EASEMENTS
APPLICABLE LENGTH = 0 LF

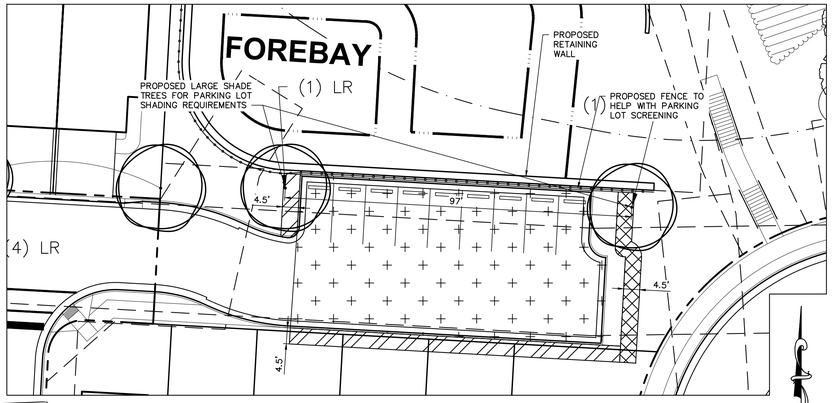
REQUIRED:	PROPOSED
0 LG TREES	4 LG TREES
0 SM TREES	8 SM TREES
0 SHRUBS	12 SHRUBS

NOTES:
(1) THIS BUFFER HAS BEEN REDUCED BY ONE GRADE OF INTENSITY ('B' TO A') SINCE THE DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE IS NO PARKING BETWEEN THE BUILDINGS LOCATED ON THE SITE AND THE ADJACENT STREET.

(2) AT LEAST 50% OF REQUIRED SHRUBS MUST BE EVERGREEN

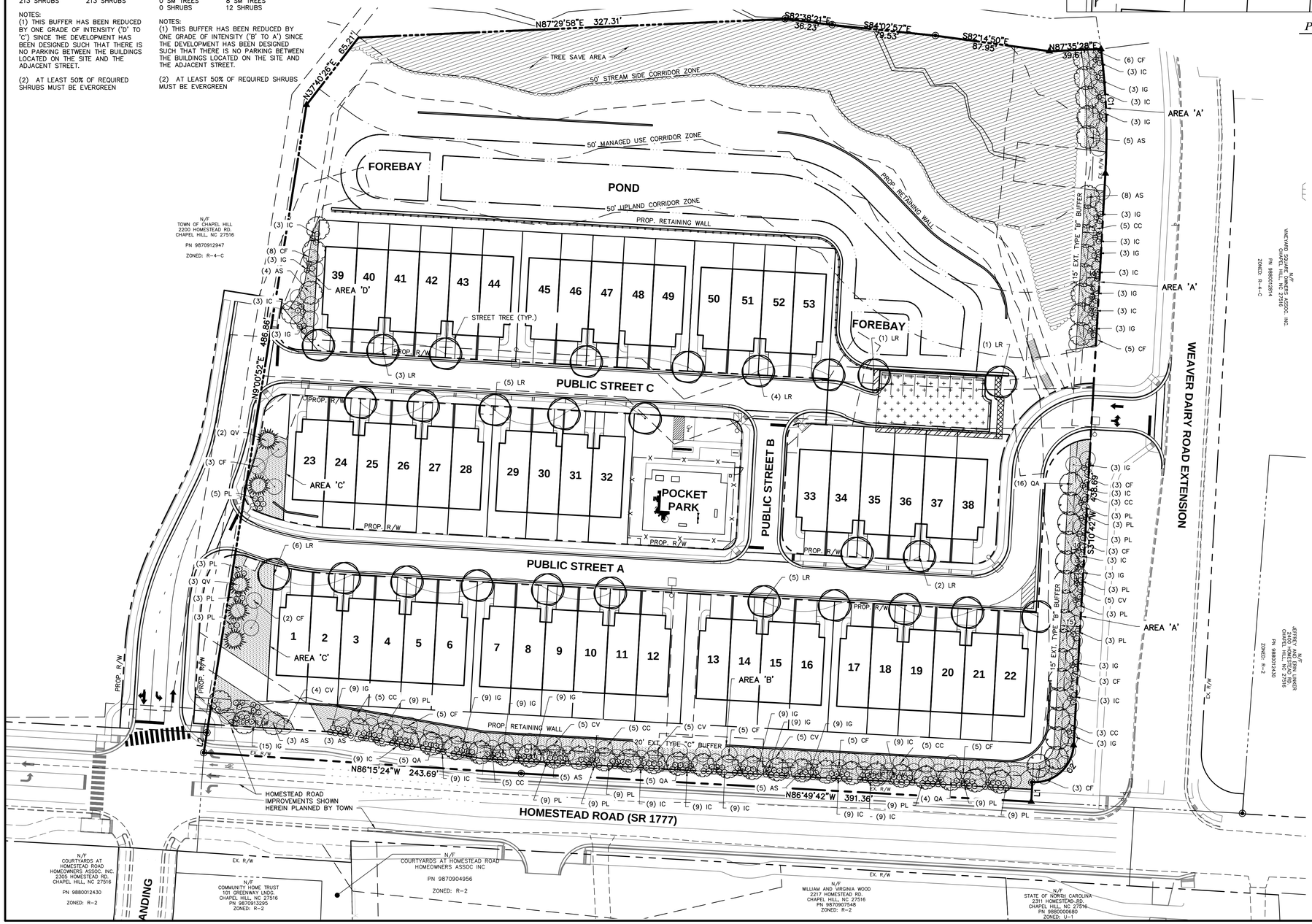
PLANTING SCHEDULE

TYPE	SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS				
					CALIPER	HEIGHT	SPREAD	ROOT	OTHER
SHADE DECIDUOUS TREE	AS	33	ACER SACCHARUM	SUGAR MAPLE	2-1/2"	12-14'	8'	B&B	MATCHED
	LR	27	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	FRUITLESS SWEETGUM	2-1/2"	12-14'	8'	B&B	MATCHED
	QA	30	QUERCUS ALBA	WHITE OAK	2-1/2"	12-14'	8'	B&B	MATCHED
CANOPY EVERGREEN TREE	QV	5	QUERCUS VIRGINIANA	LIVE OAK	2-1/2"	12-14'	8'	B&B	FULL TO GROUND
UNDERSTORY DECIDUOUS TREE	CC	31	CERCIS CANADENSIS	EASTERN REDBUD	2"	8'	6'	B&B	MULTI-STEM
	CF	56	CORNUS FLORIDA	FLOWERING DOGWOOD	2"	8'	6'	B&B	MULTI-STEM
	CV	24	CHIOANTHUS VIRGINICUS	FRINGE TRE	2"	8'	6'	B&B	MULTI-STEM
EVERGREEN SHRUBS	IC	102	ILEX CORNUTA 'CARISSA'	CARISSA HOLLY	N/A	3'	3'	CONT.	FULL TO GROUND
	IG	114	ILEX GLABRA	INKBERRY HOLLY	N/A	3'	3'	CONT.	FULL TO GROUND
	PL	95	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN	N/A	3'	3'	CONT.	FULL TO GROUND



PARKING LOT BLOW-UP

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet



LEGEND

- 30" Curb and Gutter
- Property Line
- Prop. R/W
- Prop Detention Basin
- Setback
- Parking Lot and R/W Landscape Strip
- Tree Replacement Area
- Tree Save Area
- Parking Lot Area
- Parking Lot and Building Landscape Strip

TREE CANOPY COVERAGE CALCULATIONS

TREE CANOPY COVERAGE REQUIRED:	30%
NET LAND AREA:	8.348 AC
AREAS NOT COUNTING TOWARD TREE CANOPY CALCULATIONS:	
RECREATION AREAS:	0.601 AC
EASEMENTS (EXCLUDING PAVEMENT):	1.595 AC
RIGHT OF WAY:	1.251 AC
TOTAL LAND AREA NOT COUNTED:	3.447 AC
APPLICABLE LAND AREA:	4.901 AC
TREE CANOPY REQUIRED:	4.901 AC X 30% = 1.470 AC
EXISTING TREE CANOPY TO REMAIN:	0.863 AC
ADDITIONAL TREE CANOPY REQUIRED:	0.607 AC
TREE REPLACEMENT AREA:	0.561 AC
PROPOSED STREET TREES (1 PER 500 SF):	30 TREES = 0.344 AC
ADDITIONAL TREE CANOPY PROVIDED:	0.905 AC
TOTAL TREE CANOPY PROVIDED:	1.768 AC
REQUIRED # OF 2.5" CALIPER TREES:	49 TREES
PROPOSED STREET TREES:	30 TREES
PROPOSED BUFFER TREES:	49 TREES
TOTAL TREES:	79 TREES

SHADE TREE CALCULATIONS

PARKING LOT AREA:	3,909 SF
SHADING REQUIREMENTS: PER DESIGN MANUAL	ONE LARGE TREE PER 2,000 SF OF PARKING LOT PAVED SURFACE
TREES REQUIRED:	(3,909 SF)*(1 TREE/2,000 SF)= 1.95 TREES *2 LARGE TREES REQUIRED*
SHADE TREE:	ZELKOVA (ZELKOVA SERRATA 'GREEN VASE') 50–60' HT & 40–50' SPRD. PROJECTED SHADOW LENGTH – 58'

CURVE TABLE

NO.	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
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LINE TABLE

LINE	LENGTH	BEARING
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L2	15.59'	N09°03'29"E

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

PLAN PREPARED BY:
ADVANCED CIVIL DESIGN
ENGINEERS SURVEYORS
51 Kilmayne Drive, Suite 105
Cary, North Carolina 27511
ph 919.481.6290
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Issue Dates:
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Date: 02/06/2020
Scale: 1" = 40'

Drawn By:	Checked By:
JRR	CMR

Project Number:
18–0001–978

Drawing Number:
11 / 16

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Orange County
Solid Waste Management Plan

All development applications must provide a detailed solid waste management plan, including a recycling plan and a plan for management of construction debris. The following form must be completed to fulfill this requirement. This form must be completed and approved to satisfy the requirement of a plan for management of construction debris. Please complete all information in its entirety. Assistance in completing this form is available from the Orange County Solid Waste Staff at (919) 968-2788 x107 or x109.

COMPLETE ALL INFORMATION BELOW

(Incomplete contact information will delay plan review and approval.)

Project Name: Bridgepointe

Property ID #: 9870914489, 9870919528 Permit: _____

Project Location: Northwest corner of intersection of Homestead Road and Weaver Dairy Road

Project Owner: CapKov Ventures, Inc.

Contact Person: Eric Chupp - CapKov Ventures, Inc.

Address: P.O. Box 16815
Chapel Hill, NC 27516

Telephone: (919) 942 - 8005 (office)

Fax/Mobile: (____) ____-_____ / (919) 260 - 7262 (cell)

Design Firm: Advanced Civil Design, Inc.

Contact Person: Cameron M. Rice, PE

Address: 51 Kilmayne Drive, Suite 105
Cary, NC 27511

Telephone: (919) 535 - 4056

Fax/Mobile: (919) 336 - 5127 / (919) 780 - 8005

Date: _____

Provide a brief description of the work to be performed under this application:

(For example: construct a new commercial building [include use/sq. ft.], apartment complex [# units], place of worship, horizontal improvements for subdivision, etc.)

48 - townhomes and 5 - affordable townhomes

Public streets, sidewalk, water, and sewer

1. Site Preparation Wastes (landclearing, demolition, deconstruction)

During site preparation for a project the amount of waste destined for a construction waste landfill or an inert debris landfill should be minimized or diverted for reuse or recycling. Many materials can be reused, recycled, or salvaged, provided that materials are kept separate. This approach may also reduce overall project waste disposal costs. **Regulated Recyclable Materials (clean wood waste, scrap metal and corrugated cardboard) generated in Orange County must be recycled**. During demolition activities, metal and wood are often not "reasonably possible to separate" or doing so may present health and safety concerns (asbestos, lead paint, etc.). In these cases only, are regulated materials not required to be separated for recycling. Consider whether the following materials will be generated on this project, *in any quantity*, and indicate the management method(s).

☒	**1. Trees and Plant Materials:**
	No tree/plant wastes will be produced (proceed to # 2)
x	Tree waste will be salvaged as timber, mulch, or boiler fuel
	Valuable plants will be removed for replanting
x	Landclearing and inert debris landfill (LCID)
	Construction and demolition debris landfill (C&D)
	Other (specify):

☒	**2. Dirt, Rock, Clean Fill, Inert materials to be removed from site:**
x	No inert materials will be removed from the site (proceed to # 3)
	Site Needs Fill
	Will be hauled to site needing fill
	Construction and demolition debris landfill (C&D)
	Landclearing and inert debris landfill (LCID)
	Other (specify):

☒	**3. Asphalt Paving:**
x	No asphalt wastes will be produced (proceed to # 4)

	Recycled at asphalt-paving producer
	Used on or off site. Describe use:
	Disposed in an approved landfill
	Other (specify):

☒	**4. Concrete, Brick, Block, other Aggregate materials:**
	No aggregate materials will be removed from the site (proceed to # 5)

x	Recycled as scrap at an aggregate producer
x	Used on or off site: Describe use:
x	Construction and demolition debris landfill (C&D)
x	Landclearing and inert debris landfill (LCID)

	Other (specify):

☒	**5. Metal Scrap** **(metal wastes are required by ordinance to be recycled)**
	No metal waste will be produced (proceed to # 6)
	Segregated for on-site recycling collection
x	Recycle at Orange County Landfill (**no tip fee charged if kept separate**)
	Segregated for hauling to scrap dealer by general contractor
	Segregated for hauling to scrap dealer by sub-contractor
	Certified Commingled Recycling Facility
	Other (specify):

☒	**6. Clean Wood Wastes** **(clean wood wastes are required to be recycled)**
	No clean wood wastes will be produced (proceed to # 7)
	Segregated for on-site recycling collection
	Recycle at Orange County Landfill (**reduced tip fee charged if kept separate**)
	Saved and used on future jobs
	Separated for private salvage or charity
x	Certified Commingled Recycling Facility
	Other (specify):

☒	**7. Demolition/Salvage of Buildings or Structures on the Site:**
	No structure(s) will be removed (proceed to Construction Waste section)
x	Structure(s) must be removed. Please describe (include square footage for each structure): PID 9870914489: 1 SF home @ 2,409 sf, 1,818 sf garage, & 2,010 sf garage PID 9870919528 : 1 SF home @ 1,024 sf

If any structure described above is greater than 500 ft^2, it must be assessed for deconstruction possibilities. Please call Solid Waste Staff at (919) 968-2788 x107 or x109 to arrange an assessment.

Could the structure(s) be moved from the site? YES NO Don't Know
will attempt to move both homes to nearby lots, thereby recycling them

Has the sale or donation of the structures been considered? YES NO
Please explain:
sale or donation has been considered.

How will the structure be removed otherwise?
If we can't move one or more of the homes the next option would be disassembling them for recycling purposes. There is a business in Rougemount that does that as does Habitat for Humanity. The last option would be landfill.

What is the timetable on removal of the structure(s)?
Immediately upon issuance of a Zoning Compliance Permit from the Town of Chapel Hill

Are there salvageable materials (hardwood floors, fixtures, molding, that can be removed for reuse prior to demolition? YES NO Don't Know
If Yes, Please list (use a separate sheet if necessary):
We will explore the possible salvageable materials if moving the entire structures is for whatever reason not feasible

Have, or will, these materials been offered for sale or donation?	YES	NO

2. Construction Wastes

During the construction phase there are multiple options for recycling building materials. **Regulated Recyclable Materials (clean wood waste, scrap metal and corrugated cardboard) generated in Orange County must be recycled.** Although other materials are not required to be recycled, you are highly encouraged to do so. One of the best methods of recycling is to separate the materials on the jobsite. You may also combine materials for delivery to a certified recycling facility. Specifying waste reduction/recycling practices on a project will assure better performance.

☒	**1. Clean Wood Wastes** **(clean wood wastes are required by ordinance to be recycled)**
	No clean wood wastes will be produced (proceed to # 2)
	Segregated for on-site recycling collection
x	Recycle at Orange County Landfill (**reduced tip fee charged if kept separate**)
	Saved and used on future jobs
	Separated for private salvage or charity
x	Certified Commingled Recycling Facility
	Other (specify):

☒	**2. Metal Scrap** **(metal wastes are required by ordinance to be recycled)**
	No metal waste will be produced (proceed to # 3)
	Segregated for on-site recycling collection
x	Recycle at Orange County Landfill (**no tip fee charged if kept separate**)
	Segregated for hauling to scrap dealer by general contractor
	Segregated for hauling to scrap dealer by sub-contractor
x	Certified Commingled Recycling Facility
	Other (specify):

☒	**3. Concrete, Brick, Block, other Aggregate materials:**
	No aggregate materials will be removed from the site (proceed to # 4)

	Recycled as scrap at an aggregate producer
	Used on or off site: Describe use:
x	Construction and demolition debris landfill (C&D)
x	Landclearing and inert debris landfill (LCID)
	Other (specify):

☒	**4. Corrugated Cardboard** **(cardboard wastes are required to be recycled)**
	No cardboard waste will be produced (proceed to # 5)
	Segregated for on-site recycling collection
x	Recycle at Orange County Landfill (**no tip fee charged if kept separate**)
	Segregated for hauling to paper dealer by general contractor
	Segregated for hauling to paper dealer by sub-contractor
	Certified Commingled Recycling Facility

	Other (specify):

☒	**5. Drywall**
	No drywall waste will be produced (proceed to # 6)

	Segregated for on-site recycling collection
	Used on site as agricultural supplement
x	Disposed in an approved landfill
x	Certified Commingled Recycling Facility
	Other (specify):

☒	**6. Other Materials**
	No other wastes will be produced (proceed to # 7)

Please specify other wastes that will be produced and how they will be managed:

Plastics (including vinyl and shrink-wrap):
Carpet and padding:
Shingles:
Fixtures (sinks, tubs, lighting, etc):
Other (specify):
Other (specify):
Other (specify):

7. Bulk Containers (Dumpsters)

County ordinance requires that any bulk waste container be labeled to define what materials are intended or prohibited from being deposited in them and be serially numbered. Hauling Licenses are required for vehicles greater than 9000 GVW in Orange County. Ensure that your waste haulers is licensed. You may contact Orange County Solid Waste for a list of licensees at (919) 968-2788 x107 or x109.

	There will be one or more bulk containers at the site for construction wastes.
	Contractors will be required to remove own wastes without the use of bulk containers.
x	Corral or similar system will be used.

3. Recycling After Occupancy

Depending on the eventual use of the structure, different waste materials will be produced and available for recycling. Recyclable materials must be separated into categories based on collection methods.

PLANNING REQUIREMENTS:

- **Indicate location of all bulk waste containers for refuse and recycling. Plan must show location of all containers, even if using existing refuse/recycling enclosures. Standard details/notes for any of the following are available from Orange County Solid Waste Management (919-968-2788 x107 or x109).**
- **All refuse/recycling containers are required to be on concrete pads.**
- **Provide a detailed and scaled plan of all bulk waste containers areas that show: each container labeled, required screening, lighting, overhead clearances, bollards, and concrete pad.**
- **Indicate whether refuse/recycling area will be gated. If so doors/gates will need retainers to be latched open for refuse/recycling collection.**
- **Ensure adequate collection vehicle access routes to all containers for deposit and collection. Turning radius templates are available from Orange County Solid Waste Management.**
- **Sharing of exterior recycling locations is acceptable if a joint access/shared-use agreement is filed and the deeds of all properties amended.**

☒	**Check materials that will be generated once the structure is ready for occupancy:**
x	Standard: glass bottles, metal cans, newspaper, glossy magazines, #1 plastics, #2 plastics
x	Corrugated Cardboard (not including waxed or single layer cardboard)
x	Mixed Paper: junk mail, cereal boxes
	Office Paper: white or colored copy paper, confidential papers
	Restaurant: food wastes, cooking oil, disposable dining ware
x	Other Plastics: #5, #7
	Business specific wastes (please describe):

Cardboard Recycling Requirement **Orange County Ordinance requires recyclable corrugated cardboard to be kept separate from all other refuse. All developments must provide for cardboard recycling. If the facility's garbage will be collected from a bulk container (dumpster), a second waste container is likely to be required for cardboard. Public recycling drop-off sites can accommodate a very limited amount of commercial use (no > 50 boxes per week).**	
	Site Plan includes space for cardboard recycling container on Sheet # _____
x	Corrugated Cardboard will be handled in an alternate manner. Description Required: Recycling Carts placed along street r/w

☒	**Collection Type: This project will be served by the following collection methods. Check all that apply.**
	Exterior individual or cooperative-use bulk waste container site. May be suitable for apartment complexes, restaurants, places of worship, educational facility, office building, retail/office/restaurant combinations
	Garbage dumpster
	Garbage compactor
	Cardboard dumpster
	Cardboard compactor
	Recycling carts for glass, cans, plastic bottles, newspaper, magazines, office paper (co-mingled)
	Cooking grease rendering container (required for any commercial kitchen facility)

	Food waste collection container (If qualify based on volume; contact OCSW staff for details of program)
x	**Standard "curbside" recycling collection.** May be suitable for single-family developments and subdivisions, including some duplex, triples, and townhome developments.