

COLUMBIA STREET ANNEX

1150 South Columbia Street
 Chapel Hill, North Carolina

OWNER:
 CH HOTEL ASSOCIATES LLC.
 3008 ANDERSON DRIVE, SUITE 120
 RALEIGH NC 27609



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Date	For
24 May 18	Addition of RCD data
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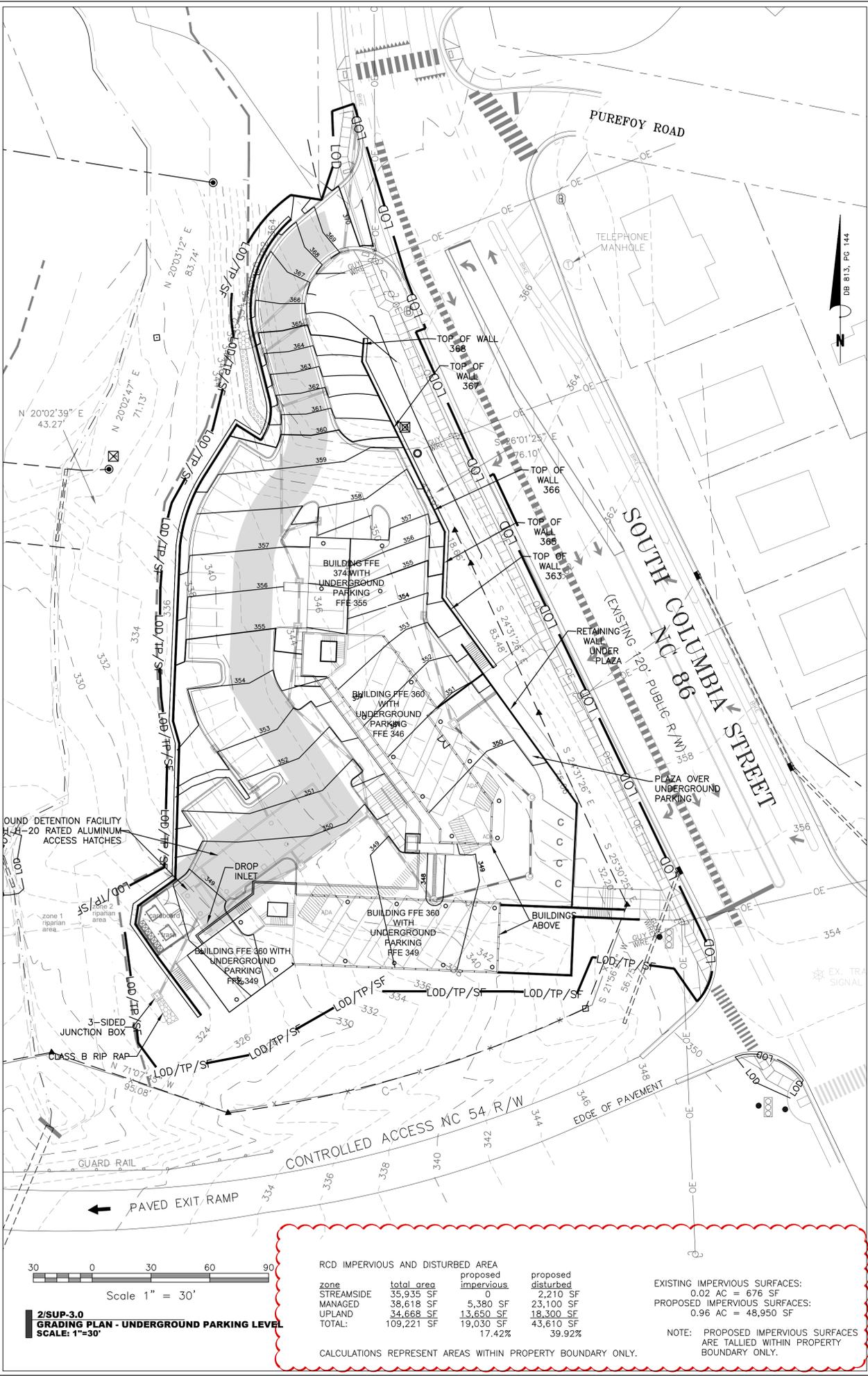
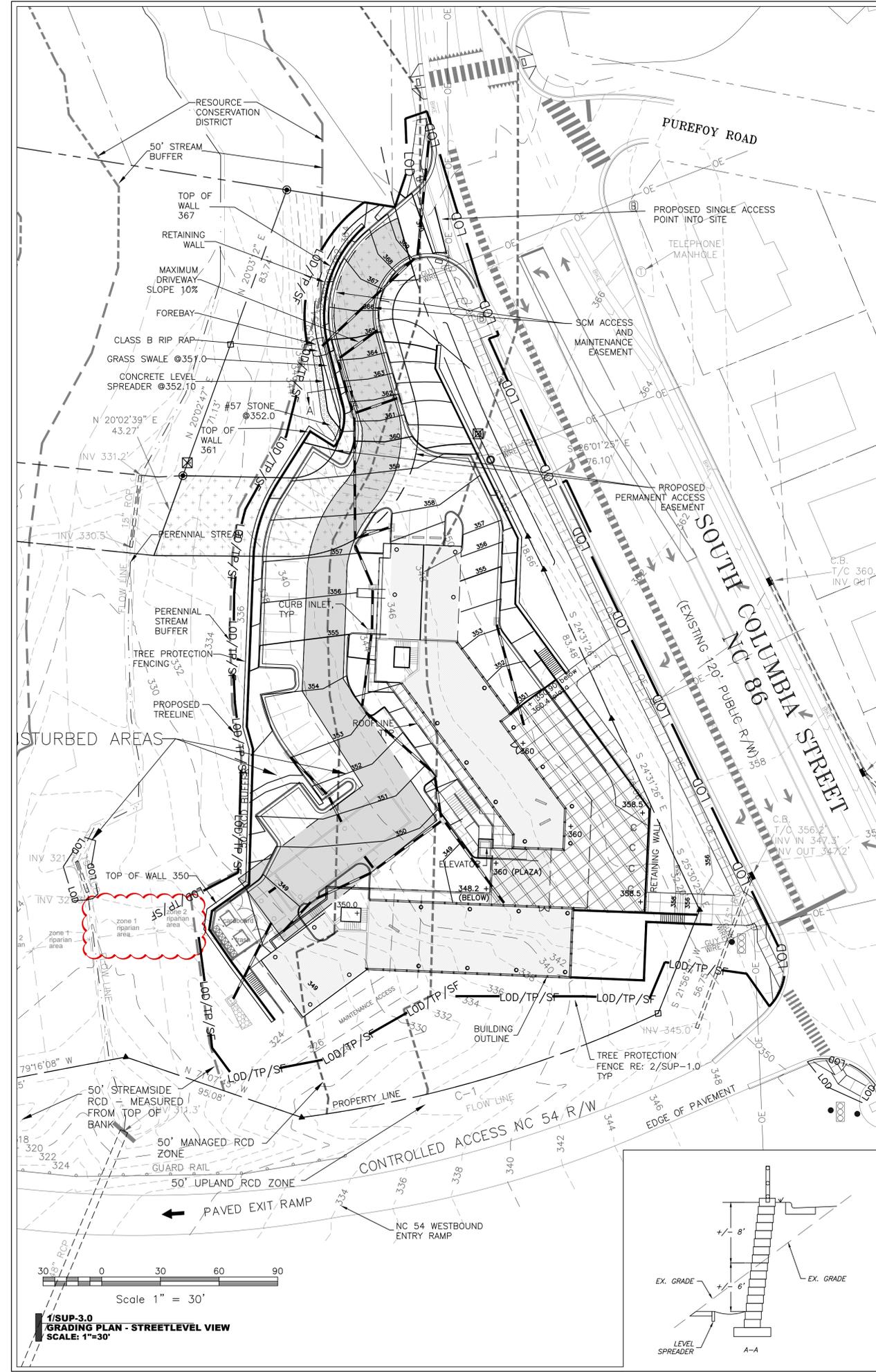
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Drawn By: WLR, MTC Date: 26 April 18

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GRADING, TREE PROTECTION AND STORMWATER PLAN

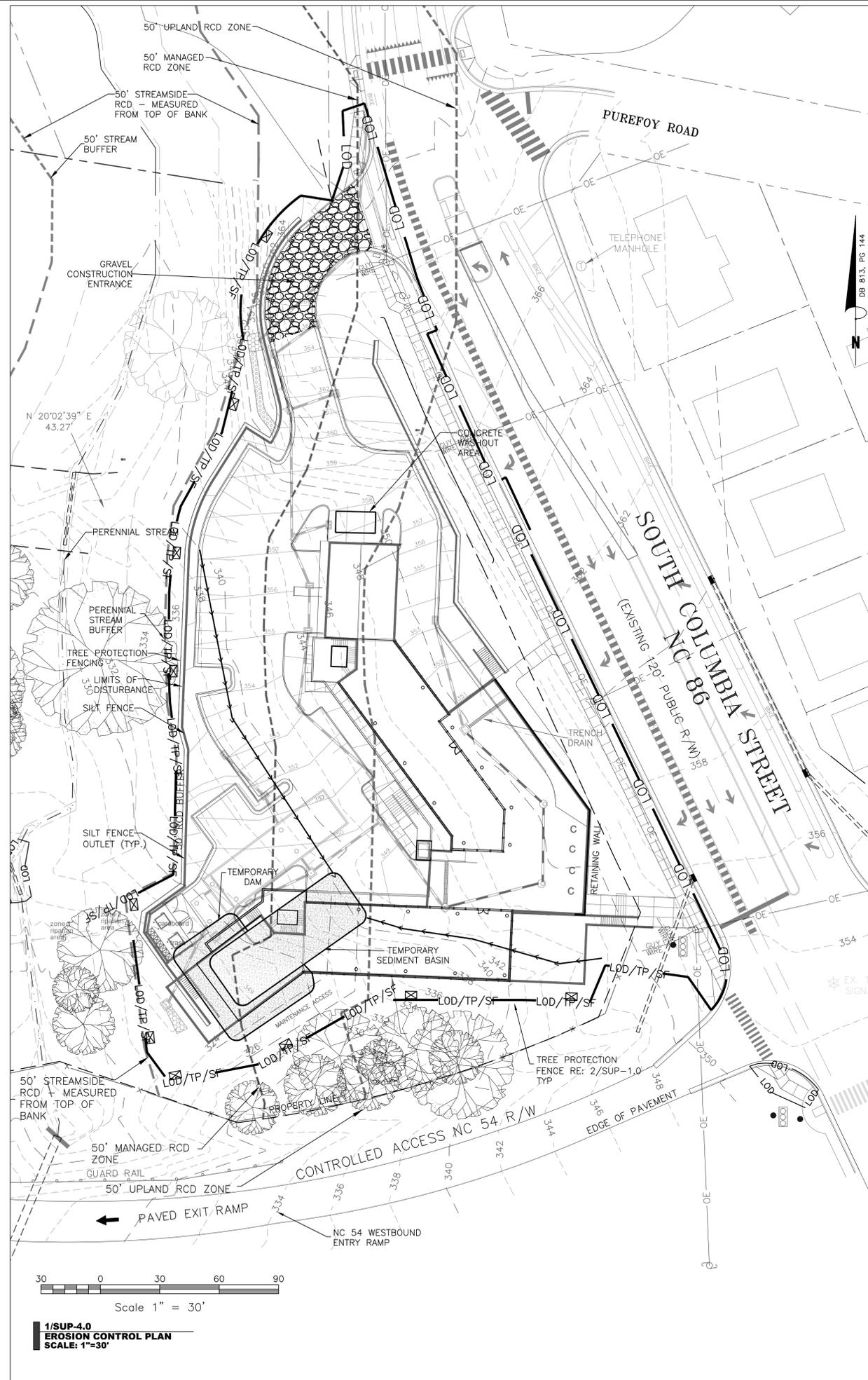
SUP-3.0



zone	total area	proposed impervious	proposed disturbed	EXISTING IMPERVIOUS SURFACES:
STREAMSIDE	35,935 SF	0	2,210 SF	0.02 AC = 676 SF
MANAGED	38,618 SF	5,380 SF	23,100 SF	PROPOSED IMPERVIOUS SURFACES:
UPLAND	34,668 SF	13,650 SF	18,300 SF	0.96 AC = 48,950 SF
TOTAL:	109,221 SF	19,030 SF	43,610 SF	
		17.42%	39.92%	

NOTE: PROPOSED IMPERVIOUS SURFACES ARE CALLED WITHIN PROPERTY BOUNDARY ONLY.

CALCULATIONS REPRESENT AREAS WITHIN PROPERTY BOUNDARY ONLY.



NOTE:
EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS MAY BE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE EXISTING AND PROPOSED STORMWATER BMP'S. ANY REQUIRED SEDIMENT REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1/SUP-4.0
EROSION CONTROL PLAN
SCALE: 1"=30'

1. INSTALL SILT FENCE PRIOR TO WORK IN ANY AREA TO PREVENT SILT FROM LEAVING SITE.
2. ALL STORMWATER PIPING SHALL BE PROTECTED FROM FLOW UNTIL STABILIZATION IS ACHIEVED. PROTECTION SHALL BE INSTALLED AT THE END OF CONSTRUCTION EACH WORK DAY AND AT ANY TIME RAIN EVENTS CAUSE FLOW INTO OPEN TRENCH, PER DETAILS.
3. ALL STORMWATER STRUCTURES SHALL BE PROTECTED FROM INFLOW UNTIL STABILIZATION IS ACHIEVED USING EITHER STAKED HARDWARE CLOTH OR SILT SACKS, PER DETAILS.
4. CONSTRUCTION ENTRANCES SHOWN ARE IN SUGGESTED LOCATIONS. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED SUCH THAT NO CONSTRUCTION TRAFFIC MAY LEAVE THE SITE WITHOUT PASSING OVER THE ENTRANCE DEVICE.

2/SUP-4.0
EROSION CONTROL NOTES

1. INSTALL ALL TREE PROTECTION FENCING REQUIRED.
2. OBTAIN ALL APPROVALS AND PERMITS NECESSARY TO BEGIN AND COMPLETE THE PROJECT. THE APPROVALS AND PERMITS MUST BE OBTAINED BEFORE THE DISTURBANCE BEGINS SO THAT WORK WILL NOT BE INTERRUPTED OR DELAYED.
3. SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL PLAN AND SCHEDULE WITH THE OWNER OR OWNER'S REPRESENTATIVE, GRADING CONTRACTOR, AND EROSION CONTROL PERSONNEL BEFORE STARTING ANY DEMOLITION, TIMBERING, GRUBBING, CLEARING, OR GRADING ACTIVITIES.
4. CLEAR ONLY THE AREA NECESSARY TO GAIN ACCESS TO AND INSTALL THE INITIAL EROSION CONTROL DEVICES: THE CONSTRUCTION ENTRANCE, SILT FENCE AND OUTLETS, DIVERSION DITCHES, ARCH FILTERS, AND CHECK DAMS. ALL DITCHES ARE TO BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE INSTALLED.
5. CLEAR AND GRADE THE REMAINDER OF THE SITE. INSTALL STORM DRAINS AND OTHER UTILITIES.
6. INSTALL TEMPORARY INLET PROTECTION AND RIP RAP APRONS AS SOON AS POSSIBLE AFTER PIPE HAS BEEN INSTALLED AND DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND BACKFILLED. ENSURE THAT UPSTREAM EROSION CONTROL DEVICES ARE IN PROPER WORKING ORDER TO PREVENT RIP RAP APRONS FROM BECOMING CLOGGED WITH SILT.
7. INSTALL CURB AND GUTTER, PAVEMENT BASE, AND PAVEMENT. REMOVE TEMPORARY INLET PROTECTION AND INSTALL SILT SACKS IN INLETS.
8. INSPECT AND MAINTAIN THE SEDIMENT CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY. THE PERSON RESPONSIBLE FOR EROSION CONTROL WILL OVERSEE THE INSPECTING AND MAINTENANCE OF THESE DEVICES. MEASURES SHOULD BE INSPECTED WEEKLY AND AFTER A RAINFALL OF MORE THAN 0.5 INCHES. SEDIMENT TO BE REMOVED FROM TRAPS WHEN SEDIMENT DEPTH IS ONE HALF OF THE TOTAL DEPTH OF TRAP. EROSION CONTROL DEVICES SHALL BE REPLACED WHEN DAMAGED OR DO NOT APPEAR TO BE WORKING PROPERLY.
9. IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE PROJECT SITE, DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.
10. KEEP MUD, DUST, AND DEBRIS OFF THE PUBLIC STREET AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD, DUST, AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR A STOP WORK ORDER) MAY BE TAKEN.
11. SILT FENCE AND DIVERSION DITCHES ARE TO BE RELOCATED AS NECESSARY AS GRADING PROGRESSES TO ENSURE THAT NO SEDIMENT LEAVES THE SITE AND RUNOFF ENTERS THE SEDIMENT BASIN.
12. SEEDING AND RESTABILIZATION OF DISTURBED AREAS MUST BE ACCOMPLISHED PER THE PLANS AND SPECIFICATIONS WITHIN THE TIMEFRAMES GIVEN IN THE STABILIZATION TIME TABLE PROVIDED IN THE SEEDING SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEEDING THAT IS REQUIRED DURING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
13. WHEN CONSTRUCTION IS COMPLETED, ALL TEMPORARY EROSION CONTROL DEVICES MUST BE REMOVED AFTER THE DRAINAGE AREA HAS BEEN SUFFICIENTLY STABILIZED TO RESTRAIN EROSION. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT AND DEBRIS FROM THE DEVICES AND STABILIZE THE LOCATIONS.
14. ARRANGE A FINAL INSPECTION WITH THE EROSION CONTROL INSPECTOR TO CONFIRM THAT ALL THE REQUIREMENTS OF THE APPROVED EROSION CONTROL PLAN HAVE BEEN COMPLETE.
15. SANDFILTERS ARE NOT TO RECEIVE RUNOFF FROM THE SITE UNTIL ALL EROSION AND SEDIMENT PHASES ARE COMPLETED. ALL INLETS TO SANDFILTERS SHALL REMAIN SEALED UNTIL SITE IS COMPLETELY STABILIZED.

3/SUP-4.0
CONSTRUCTION SEQUENCE
NOTES

Ground Stabilization*		
Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches, and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	None
Slopes 3:1 or flatter	7 days	None
All other areas with slopes flatter than 4:1	7 days	None

7-DAY STABILIZATION AREAS INCLUDE:
SWALES 1 - 6
ALL AREAS BETWEEN LIMITS OF DISTURBANCE AND WALL 3
ALL AREAS BETWEEN LIMITS OF DISTURBANCE AND STORM LINE FROM MH1 TO MH3

* Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable" (Section 11.8(2)(b))

SZOSTAK

ARCHITECT
SZOSTAK DESIGN, INC.
310 1/2 West Franklin Street
Chapel Hill, NC 27516
P 919 929 5244
F 919 929 7967
www.szostakdesign.com

ENGINEERING - LAND SURVEYING - LANDSCAPE ARCHITECTURE

Coulter Jewell Thames P.A.

111 West Main Street
Durham, N.C. 27701
p 919.682.0368
f 919.688.5646
www.cjtpa.com

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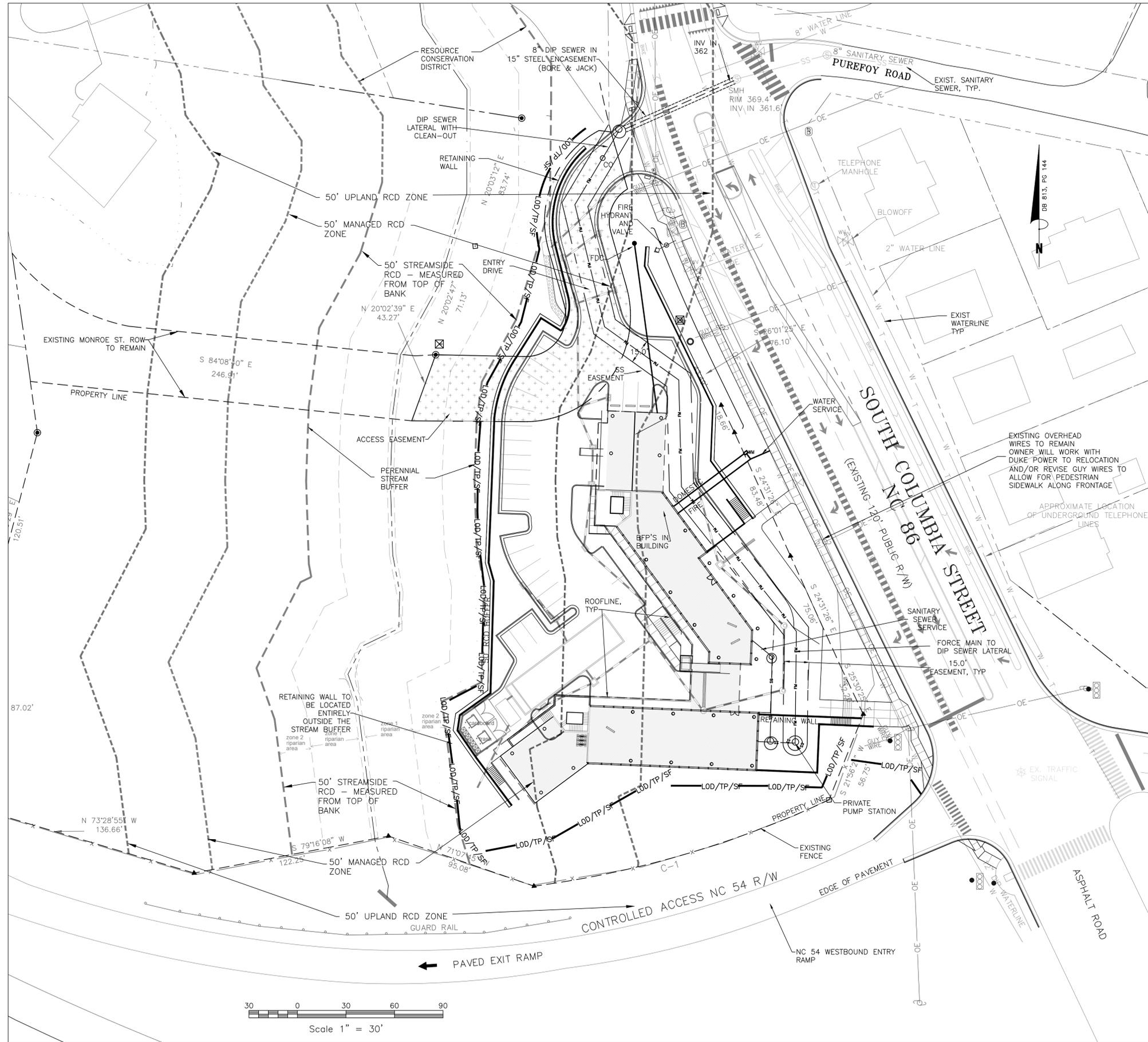
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EROSION CONTROL PLAN

SUP-4.0

FIRE PROTECTION NOTES:

1. All construction and demolition conducted shall be in compliance of the current edition of Chapel 14 of the NC FPC.
2. When the building being constructed requires standpipes, a temporary standpipe connection will be constructed with ready Fire Department Access when the building is not more than 40' in height. Such standpipes shall provide usable connections adjacent to the stairs and shall continue with building progression always being not more than one floor below the highest floor of the building. NC FPC 2012 Section 1413.



1/SUP-5.0
UTILITY PLAN
SCALE: 1"=30'

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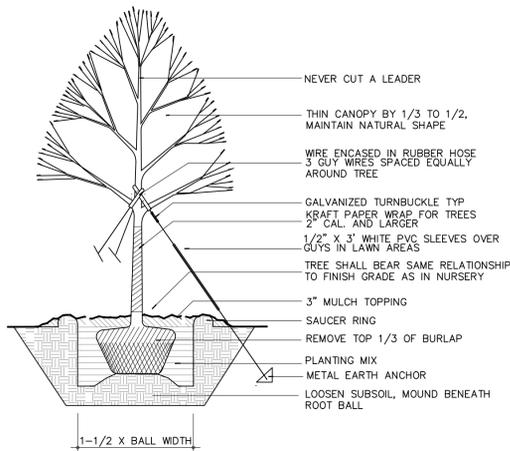
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UTILITY PLAN

SUP-5.0



**2/SUP-7.0
TREE PLANTING DETAIL**

POST DEVELOPMENT LAND AREA 165,828.8 SF
(RECOMBINATION & R/W CLOSURE)
LESS ACCESS EASEMENT 5,127 SF NET
LESS UTILITY EASEMENT 6,498 SF NET
LESS STORM EASEMENT 7,393 SF NET
NET SITE SIZE 146,810 SF

REQUIRED TREE CANOPY 40% X 146,811 = 58,724 SF
PROPOSED TREE CANOPY 66,331 SF
ALL TREESAVE WILL BE PROVIDED BY EXISTING TREE PRESERVATION

**4/SUP-7.0
TREESAVE CALCULATIONS**

PARKING LOT PLANTINGS WILL INCLUDE A SELECTION FROM:

CANOPY TREES:
ACER RUBRUM 'October Glory' - October Glory Red Maple
BETULA NIGRA - River Birch
QUERCUS SHUMARDII - Shumard Oak
ZELKOVA SERRATA 'Village Green' - Village Green Zelkova
INSTALLATION SIZE WILL BE MIN. 2 1/2" CALIBER

UNDERSTORY TREES:
CERCIS RENIFORMIS 'Oklahoma' - Texas White Redbud
LAGERSTROEMIA INDICA - Grape Myrtle
MAGNOLIA VIRGINIANA - Sweetbay Magnolia
INSTALLATION SIZE 6' HT

SHRUBS/GROUNDCOVER:
CALLICARPA AMERICANA - American Beautyberry
ILEX - Small hollies
JUNIPERUS SARGENTII - Low growing Juniper
MUHLENBERGIA CAPILLARIS - Pink Muhly Grass
PANICUM VIRGATUM 'Shenandoah' - Shenandoah Switchgrass

INSTALLATION SIZE WILL VARY
18"-30" ht for large shrubs, 12"-15" ht for small/spreading shrubs

LANDSCAPE / STREET BUFFER PLANTINGS WILL INCLUDE A SELECTION FROM:
Majority of buffer plantings shall be native species

CANOPY TREES - 2.5" caliper installation size
ACER COLUMNARE - Columnar Maple
ACER RUBRUM 'AUTUMN BLAZE' - Autumn Blaze Red Maple
ACER SACCHARUM 'Legacy' - Legacy Sugar Maple
BETULA NIGRA - River Birch
LIQUIDAMBER STYRACIFLUA 'Rotundiloba' - Fruitless Sweet Gum
NYSSA SYLVATICA - Blackgum
QUERCUS NUTTALLI - Nuttall Oak

UNDERSTORY TREES - 6' minimum height installation size
AMELANCHEIR SPP AUTUMN BRILLIANCE - Autumn Brilliance Serviceberry
CARPINUS CAROLINIANA - Hornbeam
CORNUS FLORIDA 'White Cloud' - White Flowering Dogwood
CORNUS KOUSA - Kousa Dogwood
HALESIA CAROLINIANA - Carolina Silverbell
HAMAMELIS VIRGINIANA - Witch Hazel
ILEX OPACE - American Holly
LAGERSTROEMIA FAUREI - Grape Myrtle
MAGNOLIA VIRGINIANA - Sweetbay Magnolia
MYRICA CERIFERA - Southern Wax Myrtle

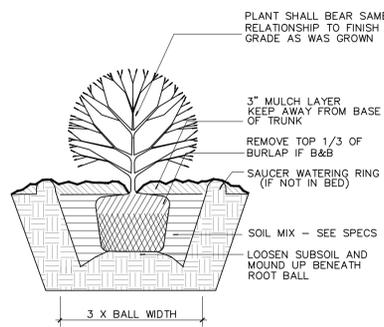
SHRUBS/GROUNDCOVER:
ABELIA X GRANDIFLORA - Glossy Abelia
AZALEA - Azalea, variety - street and plaza area
CAMELLIA JAPONICA - Japanese Camellia
CALLICARPA AMERICANA - American Beautyberry
CHASMANTHIUM LATIFOLIUM - River Oats
GARDENIA JASMINOIDES 'Kieim's Hardy' - Kieim's Hardy Gardenia
ILEX ORENATA 'CARISSA' - Carissa Holly
ILEX GLABRA - Inkberry
ILEX VERTICILLATA - Deciduous Holly
ILLICIUM PARVIFLORUM - Anise
MUHLENBERGIA CAPILLARIS - Pink Muhly Grass
MYRICA CERIFERA - Southern Waxmyrtle
PRUNUS LAUROCERASUS - Cherry Laurel

PLANTINGS FOR RIPARIAN BUFFER RESTORATION WILL INCLUDE A SELECTION FROM:
approx 35 LF of stream

UNDERSTORY PLANTINGS (sapling size):
CARPINUS CAROLINIANA - Ironwood
HAMAMELIS VIRGINIANA - Witch Hazel
ITEA VIRGINICA - Virginia Willow
MYRICA CERIFERA - Southern Wax Myrtle

GROUNDCOVER (quart size):
CAREX PLANTAGINEA - Plantainleaf Sedge
CHASMANTHIUM LATIFOLIUM - River Oats
DRYOPTERIS MARGINALIS - Eastern Woodfern

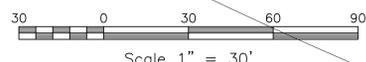
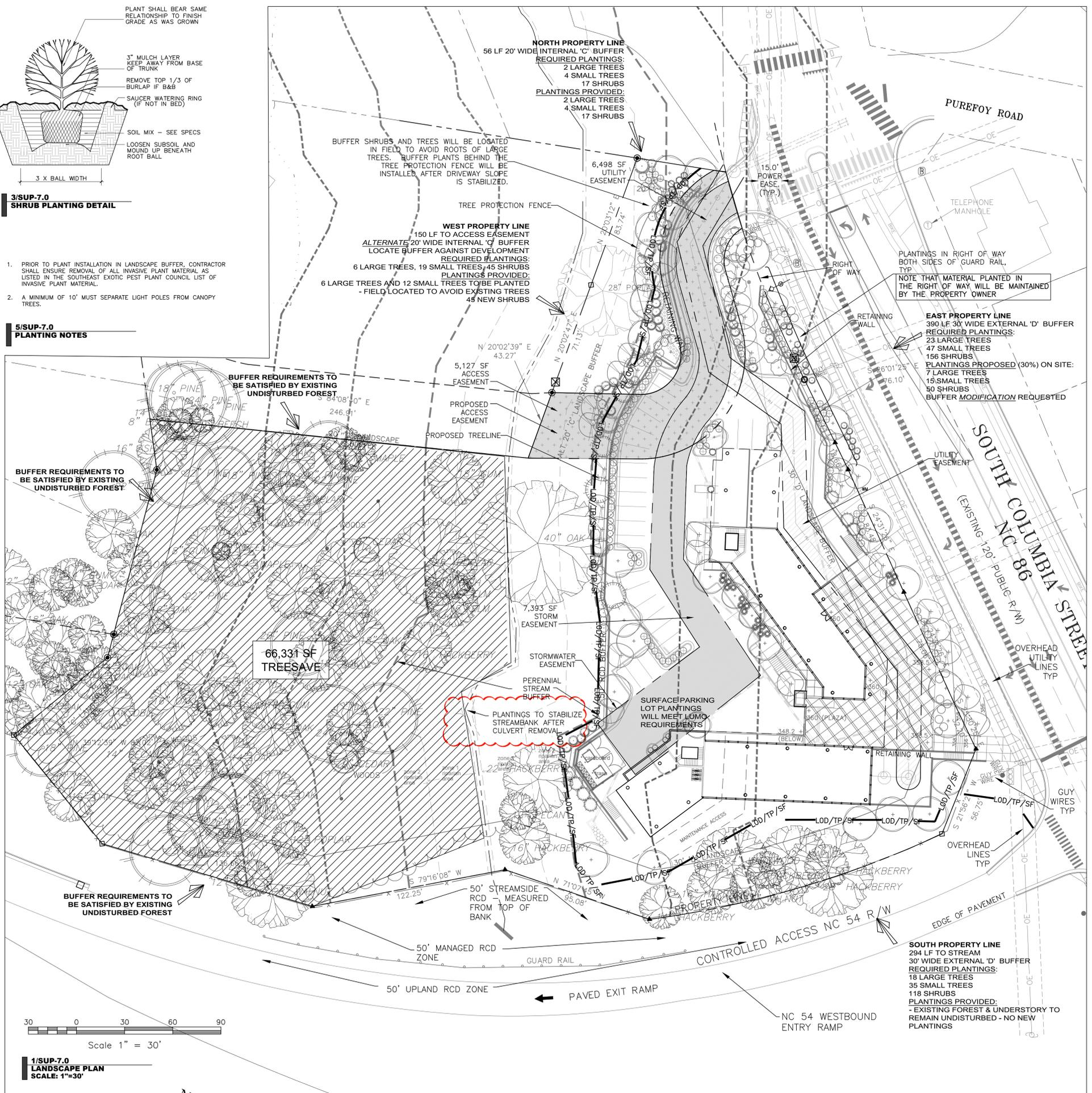
**6/SUP-7.0
PLANT SELECTION**



**3/SUP-7.0
SHRUB PLANTING DETAIL**

- PRIOR TO PLANT INSTALLATION IN LANDSCAPE BUFFER, CONTRACTOR SHALL ENSURE REMOVAL OF ALL INVASIVE PLANT MATERIAL AS LISTED IN THE SOUTHEAST EXOTIC PEST PLANT COUNCIL LIST OF INVASIVE PLANT MATERIAL.
- A MINIMUM OF 10' MUST SEPARATE LIGHT POLES FROM CANOPY TREES.

**5/SUP-7.0
PLANTING NOTES**



**1/SUP-7.0
LANDSCAPE PLAN
SCALE: 1"=30'**

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LANDSCAPE AND TREESAVE PLAN

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