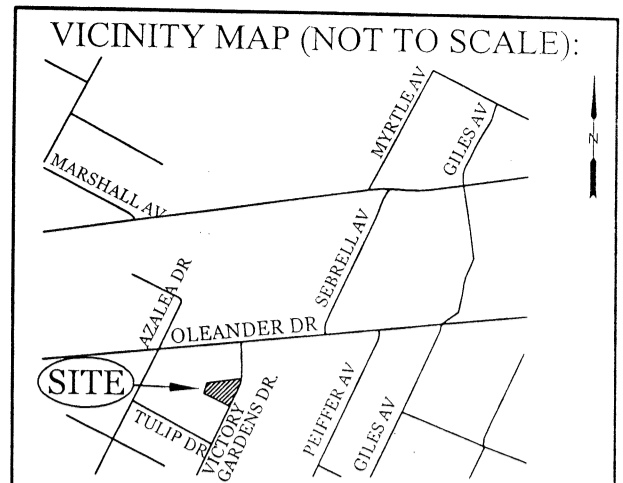


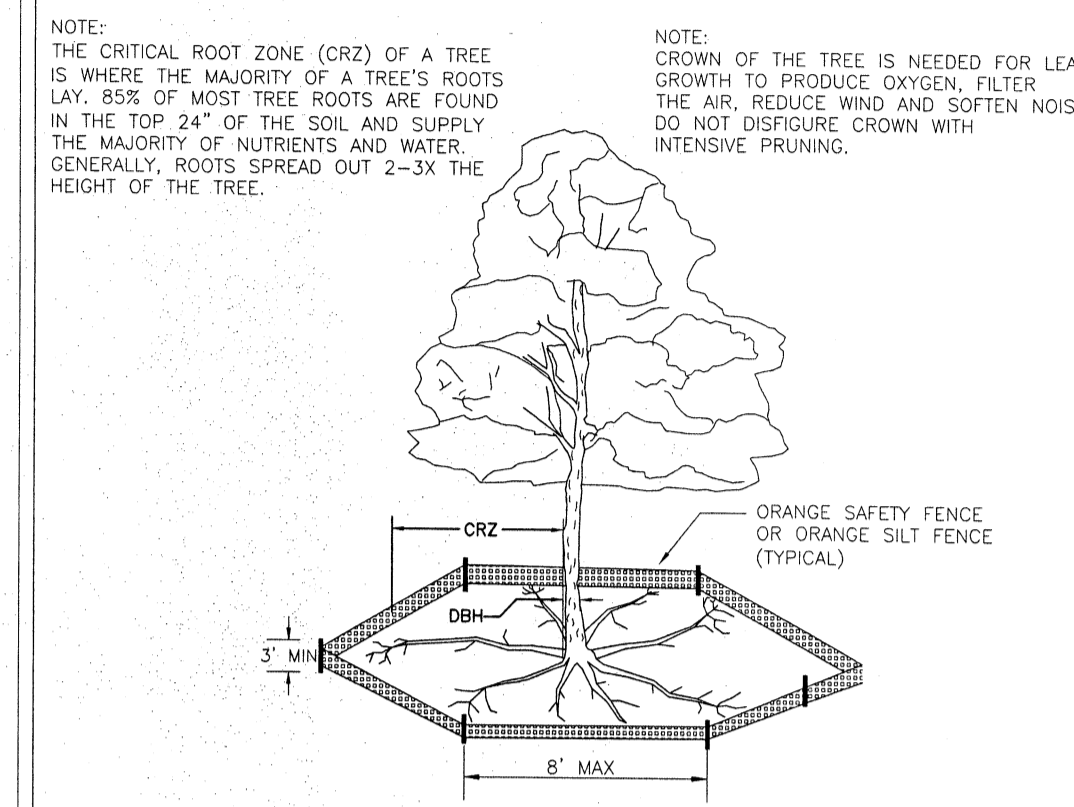
**SITE DATA**

PARCEL ID: R06207-015-010-000  
 CURRENT ZONING: CB  
 CAMA LAND USE CLASSIFICATION: WATERSHED RESOURCE PROTECTION  
 PROJECT ADDRESS: 216 VICTORY GARDENS DR WILMINGTON, NC 28409  
 CURRENT OWNER: BRANNON K. & RENEE R. SMITH 2213 MORELAND DR WILMINGTON, NC 28405  
 TOTAL ACREAGE IN PROJECT BOUNDARY: 14,123 S.F. (± 0.32 ac.)  
 EXISTING ONSITE IMPERVIOUS AREAS: 5,750 S.F. (40.1%)  
 GRAVEL PARKING AREA



REVISIONS

NO.	DESCRIPTION



**PROPOSED TREES TO BE REMOVED**

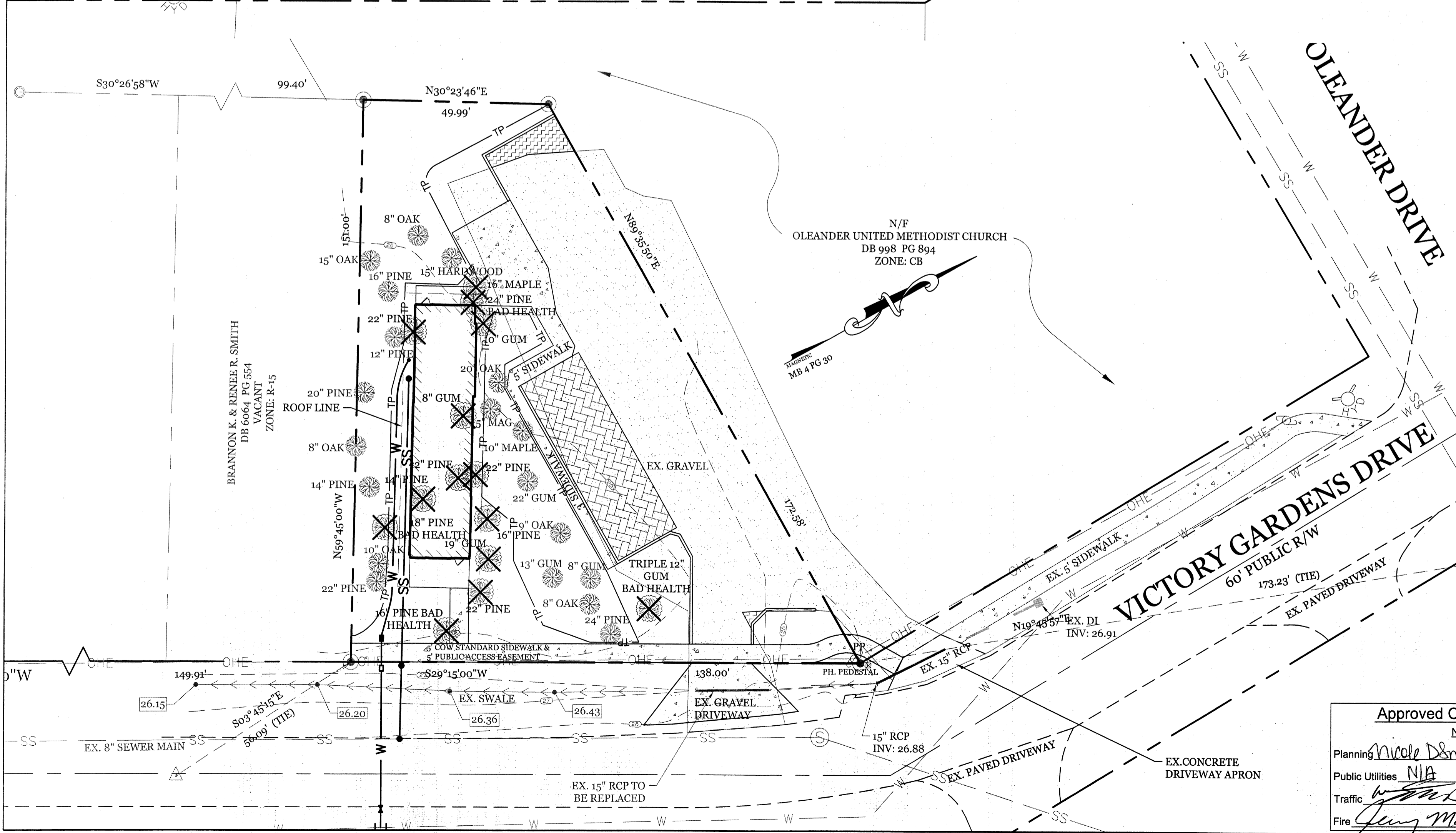
SIZE	SPECIES	QTY	TYPE
12"	PINE	1	REGULATED
14"	PINE	1	REGULATED
16"	PINE	2	REGULATED
18"	PINE	1	REGULATED
22"	PINE	3	REGULATED
24"	PINE	1	REGULATED
16"	MAPLE	1	REGULATED
8"	GUM	1	REGULATED
10"	GUM	1	REGULATED
12"	GUM	1	REGULATED
19"	GUM	1	REGULATED

**NOTES:**

- PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
- IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
- WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
- FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
- FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

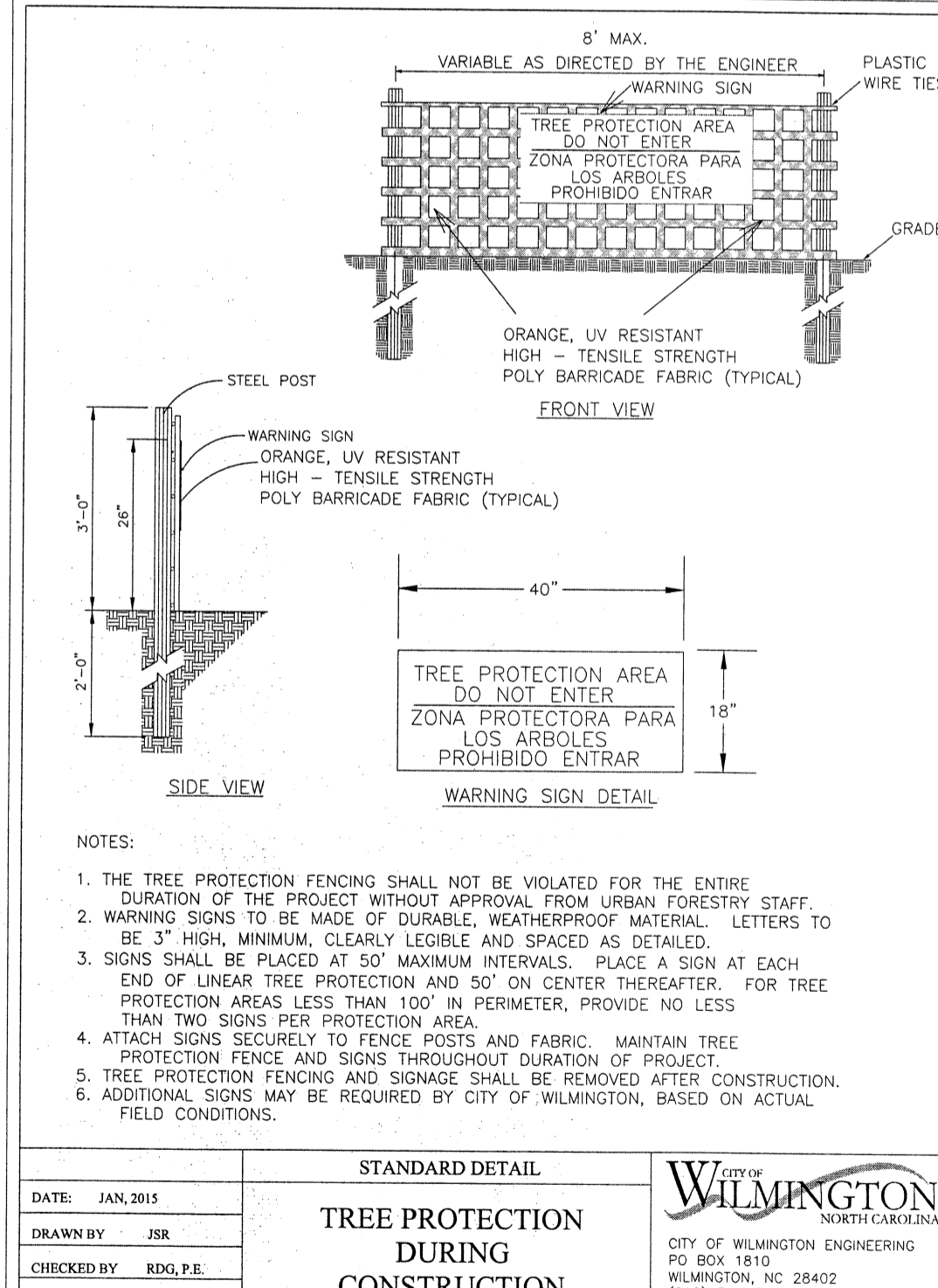
**STANDARD DETAIL**  
**TREE PROTECTION DURING CONSTRUCTION**  
 SHEET 1 of 2  
 SD 15-09

**INTRACOASTAL ENGINEERING, PLLC**  
 5725 Olander Dr. Unit E-7  
 Wilmington, North Carolina 28403  
 Phone: 910.859.8953  
 Email: Charlie@intracoastalengineering.com  
 License Number: P-0662



**PROPOSED TREES TO BE PRESERVED**

SIZE	SPECIES	QTY	TYPE
12"	PINE	1	REGULATED
14"	PINE	1	REGULATED
16"	PINE	1	REGULATED
20"	PINE	1	REGULATED
22"	PINE	1	REGULATED
24"	PINE	1	REGULATED
10"	MAPLE	1	REGULATED
5"	MAGNOLIA	1	REGULATED
8"	GUM	1	REGULATED
13"	GUM	1	REGULATED
22"	GUM	1	REGULATED
15"	HARDWOOD	1	REGULATED
8"	OAK	3	REGULATED
9"	OAK	1	REGULATED
10"	OAK	1	REGULATED
15"	OAK	1	REGULATED
20"	OAK	1	REGULATED



**NOTES:**

- THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
- 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 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
- TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
- ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

**STANDARD DETAIL**  
**TREE PROTECTION DURING CONSTRUCTION**  
 SHEET 2 of 2  
 SD 15-09

**EXISTING CONDITIONS / TREE REMOVAL PLAN**  
 FOR  
**SMITH & GSELL DESIGN STUDIO**  
 CITY OF WILMINGTON  
 NEW HANOVER COUNTY, NC

**PROFESSIONAL SEAL**  
 NORTH CAROLINA  
 ENGINEER  
 032555  
 CHARLES D. CRUZ  
 1-9-18

**CLIENT INFORMATION:**

Brannon Smith  
 2213 Moreland Dr  
 Wilmington NC 28405  
 910-612-3100  
 BrannonSpine@aol.com

DRAWN: JAE SHEET SIZE: 24x36  
 CHECKED: CDC DATE: 1/9/2018  
 APPROVED: CDC SCALE: 1" = 20'  
 PROJECT NUMBER: 2017-011

DRAWING NUMBER: C-0  
 1 OF 5

**Approved Construction Plan**

Name: Nicole D Smith Date: 2/6/18

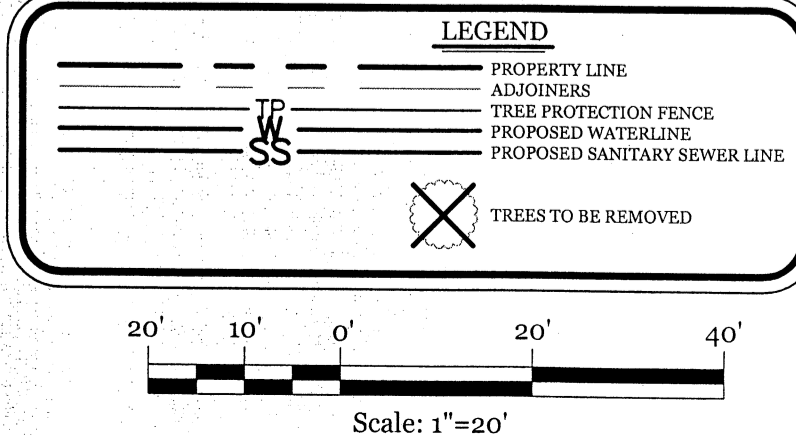
Planning: N/A

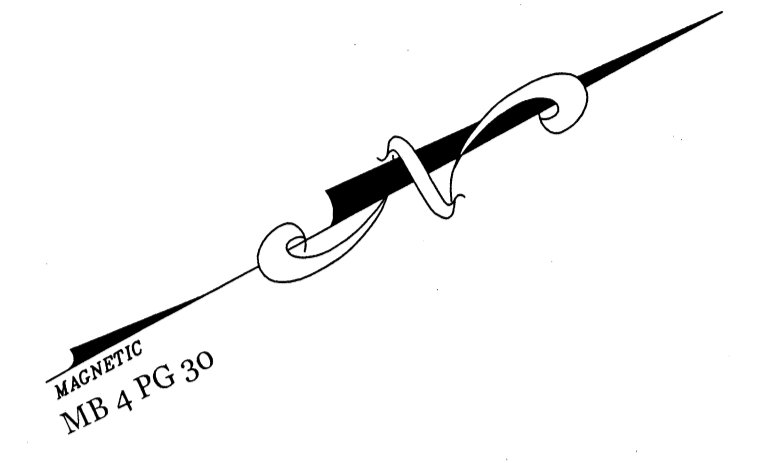
Public Utilities: N/A

Traffic: W/25-18

Fire: Greg Met 2-6-18

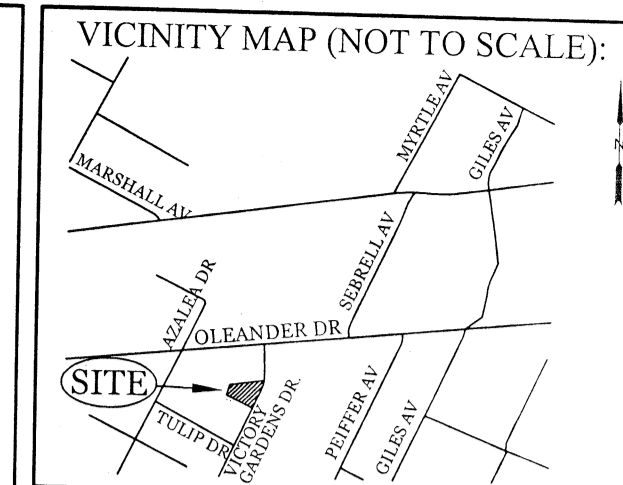
**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN  
 Date: 02/06/18 Permit # 2018006  
 Signed: Luis Pina for RAC





**SITE DATA**

PARCEL ID:	R06207-015-010-000	
CURRENT ZONING:	CB	
CAMA LAND USE CLASSIFICATION:	WATERSHED RESOURCE PROTECTION	
PROJECT ADDRESS:	216 VICTORY GARDENS DR WILMINGTON, NC 28409	
CURRENT OWNER:	BRANNON K. & RENEE R. SMITH 2213 MORELAND DR WILMINGTON, NC 28405	
TOTAL ACREAGE IN PROJECT BOUNDARY	14,123 S.F. (± 0.32 ac.)	
BUILDING SIZE:	1,050 SF (1,738 SF ROOF)	
BUILDING HEIGHT:	16.5' (1 STORY)	
BUILDING SETBACKS:		
FRONT:	REQUIRED= 20'	PROPOSED= 20'
SIDE:	REQUIRED= 20'/0'	PROPOSED= 13.86"/41.6'
REAR:	REQUIRED= 10'	PROPOSED= 52'
* SETBACK LISTED AS 18" FROM ROOF LINE		
CALCULATION FOR BUILDING COVERAGE:		
PROPOSED COVERAGE	1,738 S.F. ÷ 14,123 S.F. =	12.3%
EXISTING ONSITE IMPERVIOUS AREAS:		
GRAVEL PARKING AREA	5,750 S.F. (40.1%)	
EXISTING ONSITE IMPERVIOUS AREA TO REMAIN:		
GRAVEL PARKING AREA	3,625 S.F.	
PROPOSED ONSITE IMPERVIOUS AREAS:		
BUILDINGS	1,738 S.F.	
BRICK PAVEMENT PARKING AREA	972 S.F.	
GRAVEL PARKING	145 S.F.	
CONCRETE SIDEWALK/PARKING	1,646 S.F.	
TOTAL	4,510 S.F. (31.9%)	
TOTAL ONSITE IMPERVIOUS AREA:		
PROPOSED ONSITE IMPERVIOUS AREA:	4,510 S.F.	
EX. ONSITE IMP. AREA TO REMAIN:	3,625 S.F.	
TOTAL	8,135 S.F. (57.6%)	
PROPOSED ONSITE PERVIOUS AREAS:		
WOOD WALKWAYS/RAMPS	566 S.F. (100% PERVIOUS)	
PROPOSED OFFSITE IMPERVIOUS AREAS:		
CONCRETE SIDEWALK/DRIVE APRON	516 S.F.	
PARKING REQUIRED:		
MIN:	1 SPACE / 300 S.F. = 3.5 SPACES (1 H.C.)	
MAX:	1 SPACE / 200 S.F. = 5.25 SPACES (1 H.C.)	
PARKING PROVIDED:	7 SPACES (1 H.C.)	
PARKING LOT INTERIOR LANDSCAPING		
REQUIRED:	5,078 S.F. * 8% =	406 S.F.
PROVIDED:		749 S.F.
FOUNDATION PLANTINGS:	76 LF X 14.5' FACADE X 12%	
REQUIRED:	132.24 S.F.	
PROVIDED:		164 S.F.
STREET YARD REQUIREMENT:	(9' MIN & 27' MAX WIDTH)	
REQUIRED:	120.66 LF X 18' =	2,172 S.F.
PROVIDED:		2,238 S.F.
EXISTING SEWER AND WATER DEMAND:		0 GPD
PROPOSED SEWER AND WATER DEMAND:	@ 25 GAL/PERSON =	125 GPD



**REVISIONS**

NO.	DESCRIPTION

**INTRACOASTAL ENGINEERING, PLLC**  
 5725 Oleander Dr. Unit E-7  
 Wilmington, North Carolina, 28403  
 Phone: 910.859.8983  
 Email: charlie@intracoastalengineering.com  
 License Number: P-0662

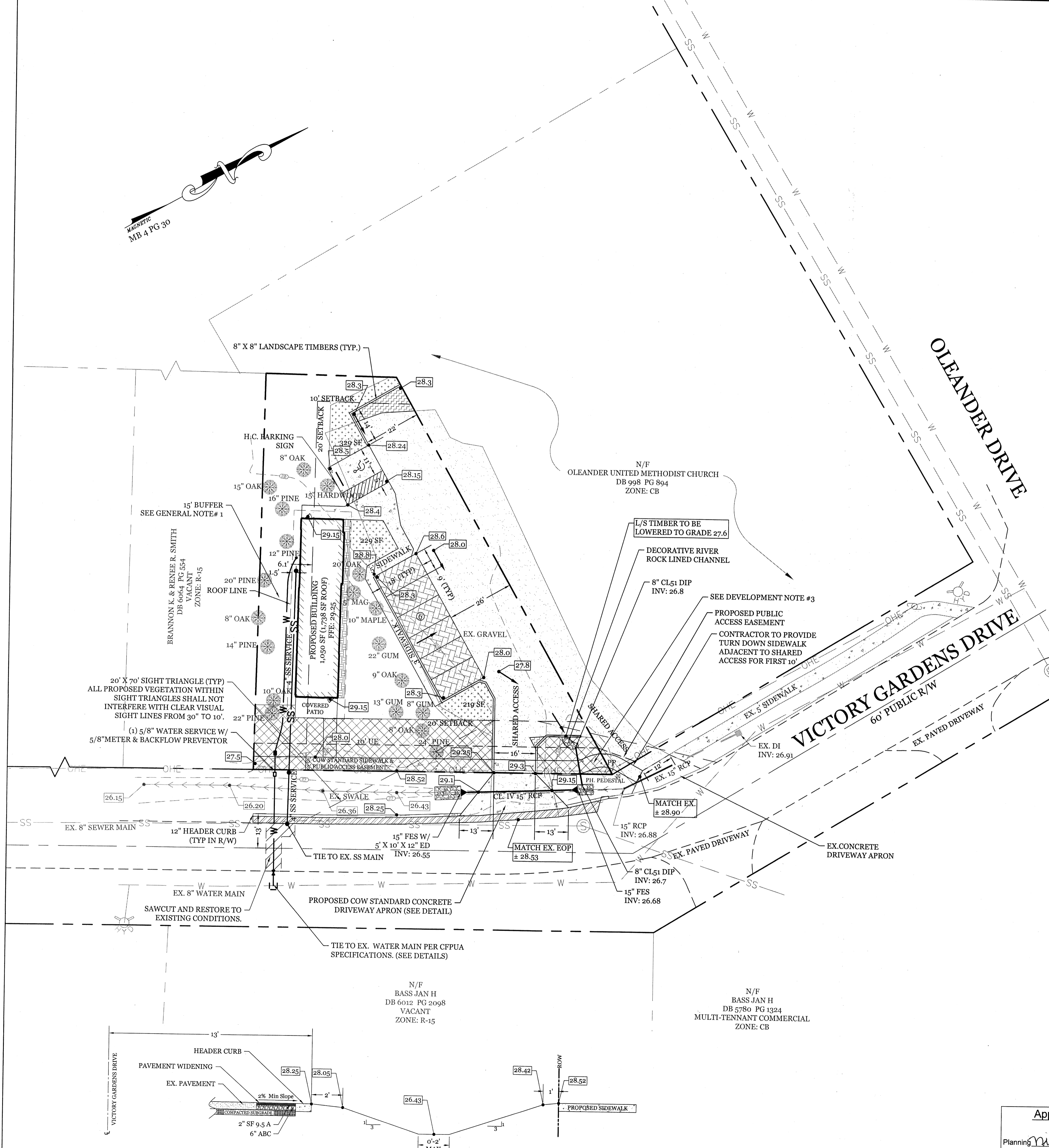
**SITE, GRADING, DRAINAGE, & UTILITIES PLAN**  
 FOR  
**SMITH & GSELL DESIGN STUDIO**  
 CITY OF WILMINGTON  
 NEW HANOVER COUNTY, NC

*Charles D. Rizer*  
1-9-18

**CLIENT INFORMATION:**  
 Brannon Smith  
 2213 Moreland Dr  
 Wilmington NC 28405  
 910-612-3100  
 BrannonSpine@aol.com

DRAWN: JAE SHEET SIZE: 24x36  
 CHECKED: CDC DATE: 1/9/2018  
 APPROVED: CDC SCALE: 1" = 20'  
 PROJECT NUMBER: 2017-011

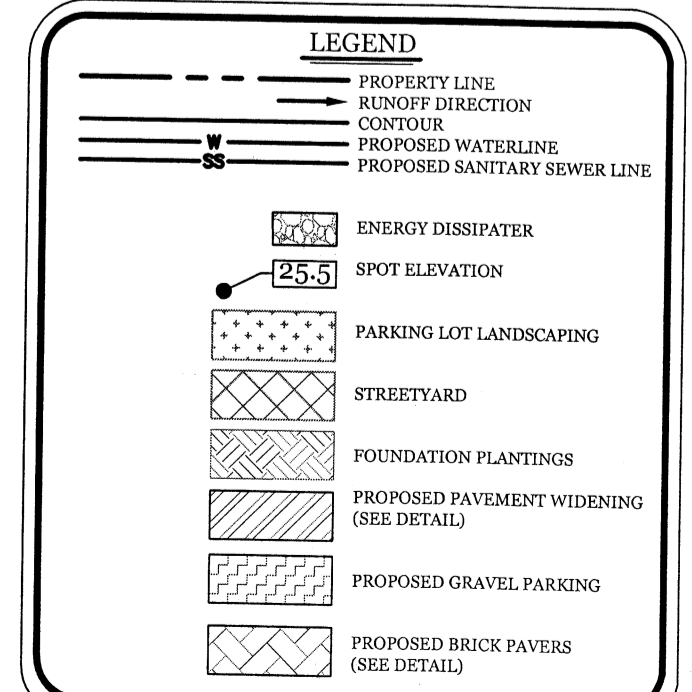
DRAWING NUMBER: **C-1**



- DEVELOPMENT NOTES:**
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
  - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & NEW HANOVER COUNTY REGULATIONS.
  - CONTRACTOR TO COORDINATE WITH C.O.W. CONSTRUCTION INSPECTOR FOR POSSIBLE USE OF FLOW UNDER SIDEWALK IN LIEU OF 8" DIP.
- UTILITY NOTES:**
- EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS.
  - ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
  - ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CPWA TECHNICAL SPECIFICATIONS & STANDARDS.
  - PROJECT SHALL COMPLY WITH CPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS(C) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND N.C.D.E.N.R. HAS ISSUED THEIR "FINAL APPROVAL". CALL 341-3910 FOR INFORMATION.
  - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCHR OR ASSE.
  - WATER & SEWER SERVICES CAN NOT BE ACTIVATED ON NEW MAINS UNTIL THE ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY THE PUBLIC WATER SUPPLY SECTION OF NCDENR, AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY DIVISION OF WATER QUALITY SECTION OF NCDENR.
  - IF CONTRACTOR DESIRES CPWA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
  - WHEN PVC WATER MAINS AND SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED, SINGLE-STRAND COPPER WIRE INSTALLED & STRAPPED TO THE PIPES WITH DUCT TAPE. THIS IS TO BE ACCESSIBLE IN ALL VALVES AND METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OR EXISTING UTILITIES DURING CONSTRUCTION. CALL U-LOCO AT 1-800-632-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
  - THE BELLSOUTH CONTACT IS STEVE DAYVAULT, BUILDING INDUSTRY CONSULTANT, AT 910-392-8712. CONTACT HIM PRIOR TO STARTING THE PROJECT IN ORDER TO FACILITATE GOOD COMMUNICATION AND MAXIMUM FLEXIBILITY.
  - THE PROCESS FOR TELEPHONE CABLE PLACEMENT: \* FINAL GRADE WILL NEED TO BE ESTABLISHED. \* POWER WILL PLACE THEIR CABLE FIRST - APPROXIMATELY 3" DEEP. \* BELLSOUTH & CABLE TV WILL THEN PLACE THEIR CABLE AT APPROXIMATELY 2" DEEP.
  - SOLID WASTE DISPOSAL BY COW CURBSIDE SERVICE.

- GENERAL TRAFFIC NOTES:**
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (DETAIL SD-13 COFW TECH STDS)
  - ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (DETAIL SD-15-13 COFW TECH STDS)
  - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
  - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
  - A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN. (SD 15-14 COFW TECH STDS)
  - CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
  - ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.
- FIRE & SAFETY NOTES:**
- CONSTRUCTION TYPE: V-B COMMERCIAL
  - BUILDING WILL NOT BE SPRINKLED
  - PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS.
  - ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
  - HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE
  - IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

- GENERAL NOTES:**
- EXISTING VEGETATION MAY MEET BUFFER REQUIREMENT. CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT/CITY OF WILMINGTON TO ENSURE BUFFER REQUIREMENTS ARE MET.



**Approved Construction Plan**

Name: *Brannon Smith* Date: *2/6/18*

Planning: *Brannon Smith*

Public Utilities: *N/A*

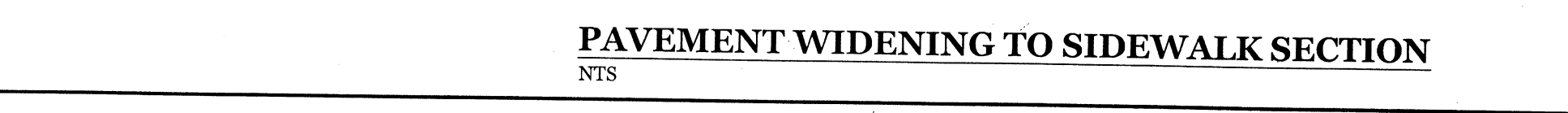
Traffic: *Steve Dayvault 2-5-18*

Fire: *James Mot 2-6-18*

City of Wilmington Public Services - Engineering Division APPROVED DRAINAGE PLAN

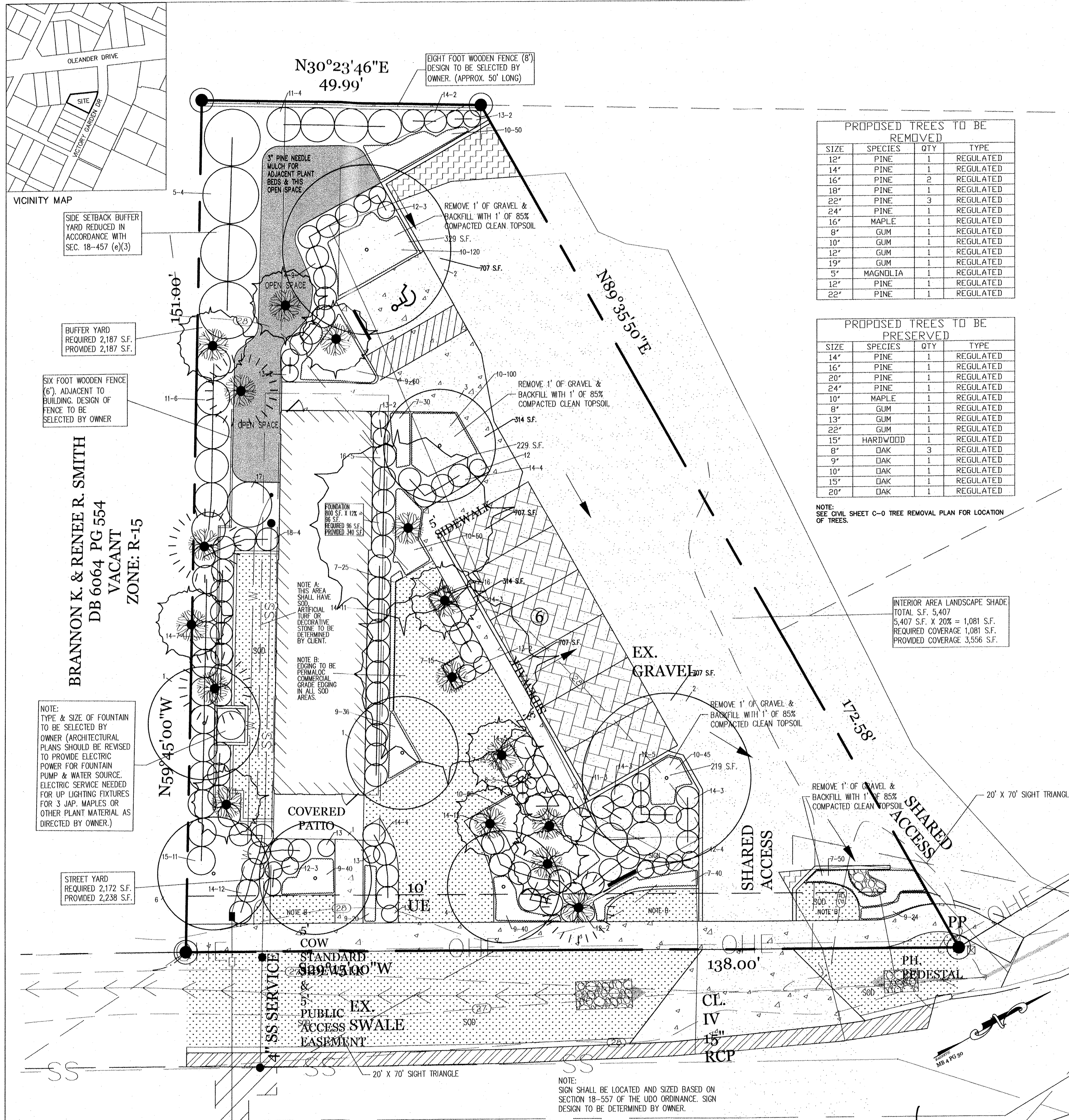
Date: *02/06/18* Permit #: *2018006*

Signed: *Leah Butler for RAC*



**PAVEMENT WIDENING TO SIDEWALK SECTION**  
 NTS





**SITE DATA**  
 PARCEL: 11R-06207-015-010-000  
 CURRENT ZONING: CB  
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 PROJECT ADDRESS: 216 VICTORY GARDENS DR WILMINGTON, NC 28409  
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 TOTAL ACREAGE IN PROJECT BOUNDARY: 14,123 S.F. (± 0.32 ac.)  
 BUILDING SIZE: 1,050 SF (1,738 SF ROOF)  
 BUILDING HEIGHT: 16.5' (1 STORY)  
 BUILDING SETBACKS:  
 FRONT: REQUIRED=20' PROPOSED=20'  
 SIDE: REQUIRED=20' PROPOSED=13.86"/41.6'  
 REAR: REQUIRED=10' PROPOSED=52'  
 \*SETBACK LISTED AS 18' FROM ROOF LINE  
 CALCULATION FOR BUILDING COVERAGE:  
 PROPOSED COVERAGE: 1,738 S.F. + 14,123 S.F. = 12.3%  
 EXISTING ON-SITE IMPERVIOUS AREAS:  
 GRAVEL PARKING AREA: 5,750 S.F. (40.1%)  
 EXISTING ON-SITE IMPERVIOUS AREA TO REMAIN:  
 GRAVEL PARKING AREA: 3,625 S.F.  
 PROPOSED ON-SITE IMPERVIOUS AREAS:  
 BUILDING: 1,738 S.F.  
 BRICK PAVEMENT PARKING AREA: 972 S.F.  
 GRAVEL PARKING: 145 S.F.  
 CONCRETE SIDEWALK/PARKING: 1,646 S.F.  
 TOTAL: 4,510 S.F. (31.9%)  
 TOTAL ON-SITE IMPERVIOUS AREA:  
 PROPOSED ON-SITE IMPERVIOUS AREA: 4,510 S.F.  
 EX. ON-SITE IMP. AREA TO REMAIN: 3,625 S.F.  
 TOTAL: 8,135 S.F. (57.6%)  
 PROPOSED ON-SITE PERVIOUS AREAS:  
 WOOD WALKWAYS/RAMPS: 566 S.F. (100% PERVIOUS)  
 PROPOSED OFF-SITE IMPERVIOUS AREAS:  
 CONCRETE SIDEWALK/DRIVE APRON: 516 S.F.  
 PARKING REQUIRED:  
 MIN: 1 SPACE/300 S.F. = 3.5 SPACES (1 H.C.)  
 MAX: 1 SPACE/200 S.F. = 5.25 SPACES (1 H.C.)  
 PARKING PROVIDED: 7 SPACES (1 H.C.)  
 EXISTING SEWER AND WATER DEMAND: 0 GPD  
 PROPOSED SEWER AND WATER DEMAND:  
 @ 25 GAL/PERSON = 125 GPD

**PROPOSED TREES TO BE REMOVED**

SIZE	SPECIES	QTY	TYPE
12"	PINE	1	REGULATED
14"	PINE	1	REGULATED
16"	PINE	2	REGULATED
18"	PINE	1	REGULATED
22"	PINE	3	REGULATED
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8"	GUM	1	REGULATED
10"	GUM	1	REGULATED
12"	GUM	1	REGULATED
19"	GUM	1	REGULATED
5"	MAGNOLIA	1	REGULATED
12"	PINE	1	REGULATED
22"	PINE	1	REGULATED

**PROPOSED TREES TO BE PRESERVED**

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8"	GUM	1	REGULATED
13"	GUM	1	REGULATED
22"	GUM	1	REGULATED
15"	HARDWOOD	1	REGULATED
8"	DAK	3	REGULATED
9"	DAK	1	REGULATED
10"	DAK	1	REGULATED
15"	DAK	1	REGULATED
20"	DAK	1	REGULATED

**PLANT LIST**

KEY NO.	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	CAL.	HT.	REMARKS
<b>UNDERSTORY TREES / CANOPY TREES</b>							
1	3	ACER PALMATUM	JAPANESE MAPLE	15 GAL		15' - 20'	BLOODGOOD
2	2	QUERCUS VIRGINIANA	LIVE OAK	WB	3 1/2"		
3	1	PRUNUS CERASIFERA	PISSARD PLUM	WB	3"		
4	1	CORNUS FLORIDA	FLOWERING DOGWOOD	WB		8'-10'	WHITE DOGWOOD
5	4	JUNIPERUS CHINENSIS KAZUKA	HOLLYWOOD JUNIPER	15 GAL		3'-8'	PLANTING
6	1	PODOCARPUS MAGROPHYLLUS	JAPANESE YEW	30 GAL		6'-7'	15' O.C.
<b>GROUND COVER</b>							
7	191	LIRIOPE MUSCARI	LILY TURF	1 GAL.			1" O.C. SUPER ABILE
8	5	MATEUCUCCIA STRUTHOPTERIS	OSIRCH FERN	3 GAL.			2" O.C.
9	220	VIOLA MAJOR	BIG PERIWINKLE	1 GAL.			1" O.C.
10	305	HEDERA HELIX	ENGLISH IVY	1 GAL.			1" O.C. VAR. BALTIK
<b>SMALL SHRUBS</b>							
11	13	AZALEA INDICA	INDIAN AZALEA	7 GAL.			5' O.C. GLACIER
12	18	PENNESETUM ALOPECUROIDES	DWARF FOUNTAIN GRASS	3 GAL.			3' O.C.
13	11	MISCANTHUS SINENSIS	EULALIA GRASS	3 GAL.			3' O.C.
<b>LARGER SHRUBS</b>							
14	75	BUXUS MICROPHYLLA	WINDGREEN BOXWOOD	7 GAL.			4" O.C. KOREANA
15	11	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	7 GAL.			3' O.C.
16	5	NUCUBA JAPONICA	JAPANESE AUCUBA	3 GAL.			4" O.C.
17	1	BUXUS SEMPERVIRENS	AMERICAN BOXWOOD	B & R			8' O.C.
18	4	THYIA OCCIDENTALIS	EMERALD GREEN ARBORVIT	5 GAL.			4" O.C.

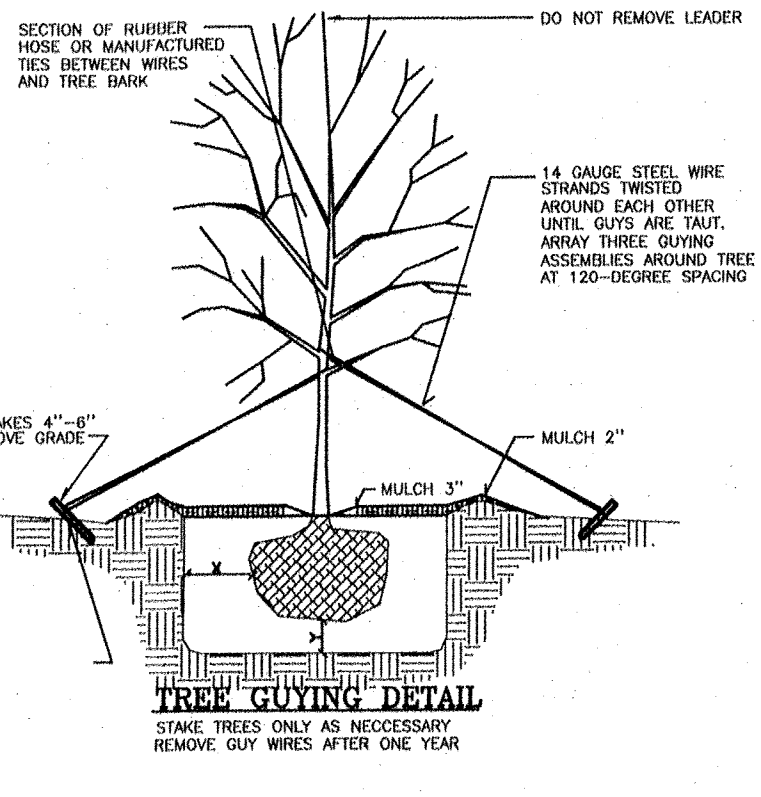
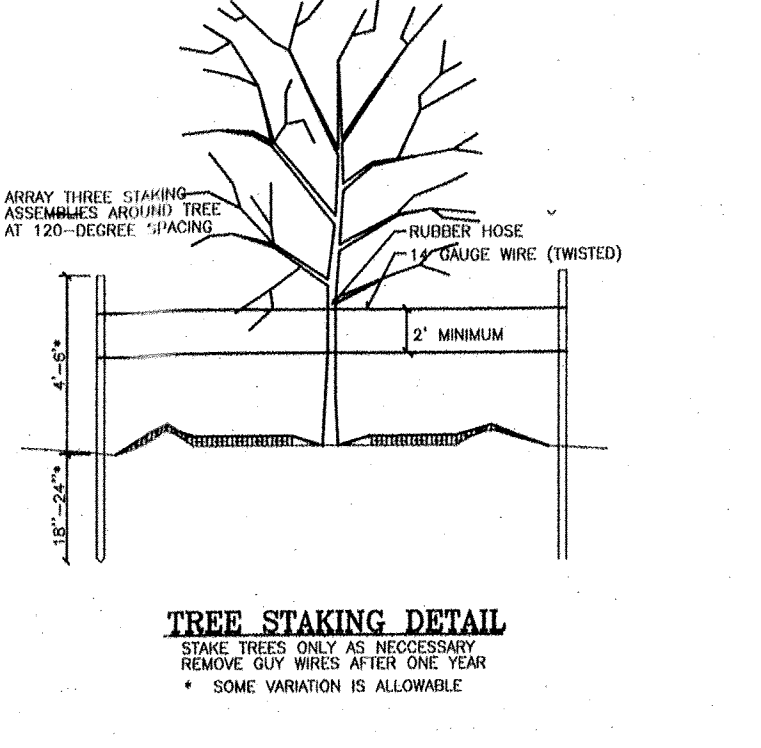
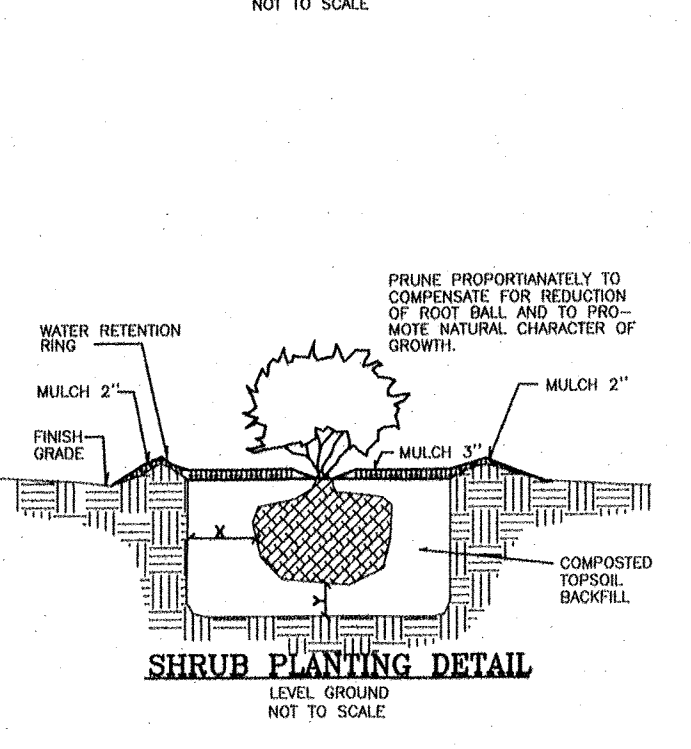
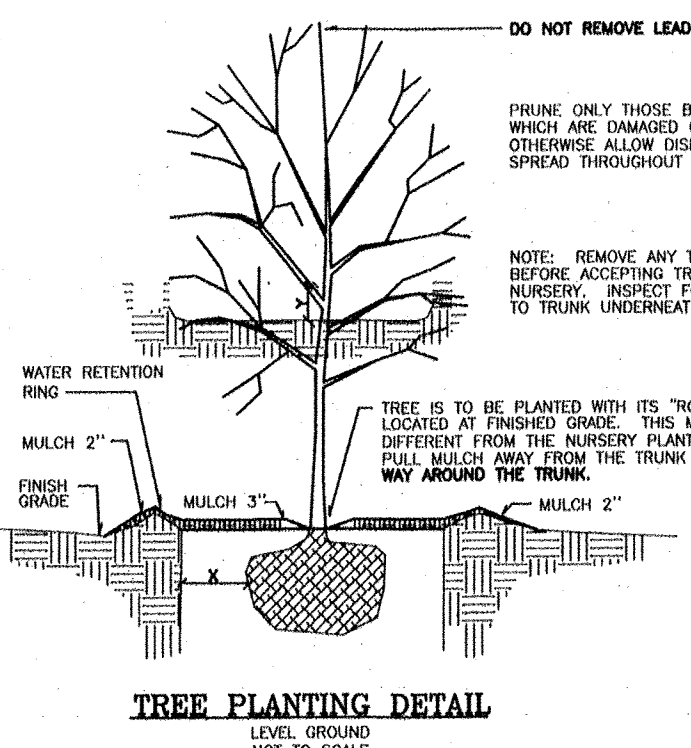
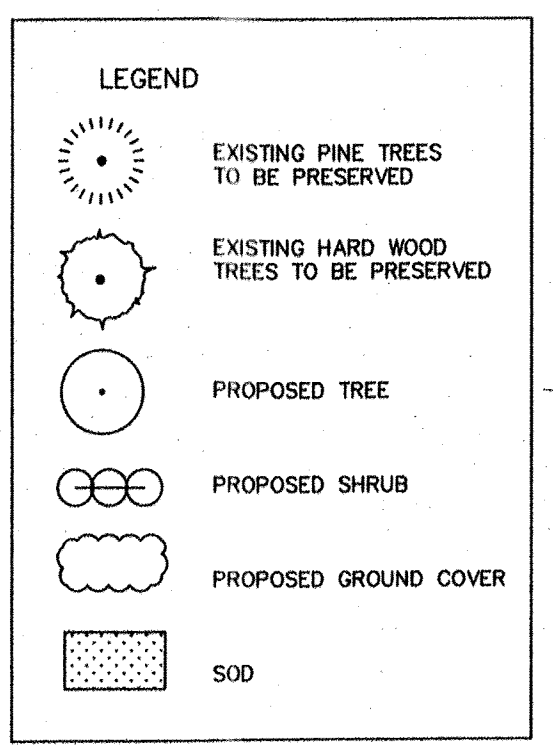
**HICA**  
 Howard T. Capps & Associates, Inc.  
 Land Planning & Architecture  
 404 Oleander Drive, Suite 102  
 Wilmington, North Carolina 28403  
 Phone: (910) 284-1898

Smith & Gsell Design Studio  
 216 Victory Garden Drive  
 Wilmington, North Carolina

DESIGNED: H. Capps  
 DRAWN: R. Capps  
 DATE: 12-11-2017  
 SCALE: 1"=10'  
 JOB NO.: 441-01015  
 SHEET: 1  
 OF SHEETS

NOTE: SEE CIVIL SHEET C-0 TREE REMOVAL PLAN FOR LOCATION OF TREES.

INTERIOR AREA LANDSCAPE SHADE  
 TOTAL S.F. 5,407  
 5,407 S.F. X 20% = 1,081 S.F.  
 REQUIRED COVERAGE 1,081 S.F.  
 PROVIDED COVERAGE 3,556 S.F.



NOTES:  
 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.  
 2. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.

Revised 8/14/18  
 C-97  
 289  
 H. CAPPS

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: 8/21/18  
 Signed: [Signature]

**Approved Construction Plan**  
 Name: [Name]  
 Date: 8/20/18  
 Traffic: [Signature]  
 Fire: [Signature]

**LANDSCAPE PLAN**  
 SCALE: 1"=10'-0"