

PROGRESS DRAWING  
NOT FOR CONSTRUCTION



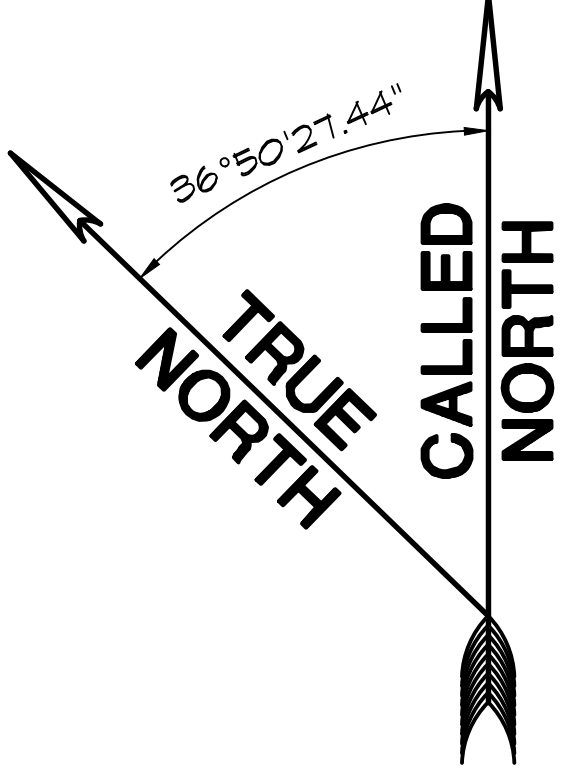
REVISIONS	DATE

**WORKPLACE**  
ARCHITECTURE+DESIGN

L. B. SMITH AND ASSOCIATE  
ARCHITECTS  
ENGINEERS

2140 W. MARKET STREET  
MONROE, NORTH CAROLINA 28540  
PHONE: 704.284.5168  
WWW.LBSMITHCO.COM

SHEET TITLE	LANDSCAPE PLAN OVERALL
PROJECT NAME	CENTER FOR ENTREPRENEURSHIP
OWNER	SOUTH PIEDMONT COMMUNITY COLLEGE
LOCATION	MONROE, NORTH CAROLINA
CAD PROJECT NUMBER	#20-22115-02A
PROJECT NUMBER	2021.01
SCALE	1" = 40'-0"
DATE	JAN. 10, 2025
DRAWN BY	TJ
CHECKED BY	LBS, JR



**A** LANDSCAPE PLAN OVERALL  
L-100 1" = 40'-0"

LEAD DESIGN PROFESSIONAL  
LARRY B. SMITH, JR., P.E.  
L. B. SMITH AND ASSOCIATE, P.A.  
(704) 284-5168  
lbsjr@lbsmithco.com

**L-100**

PROGRESS DRAWING  
NOT FOR CONSTRUCTION



REVISIONS	DATE

**WORKPLACE**  
ARCHITECTURE+DESIGN

**L. B. SMITH AND ASSOCIATE**  
ARCHITECTS  
ENGINEERS  
2110 W. MARKET STREET, SUITE 100  
MONROE, NORTH CAROLINA 28050  
704.284.5168  
lbsj@lbsmithpa.com

SHEET TITLE: LANDSCAPE PLAN ENLARGEMENT I  
PROJECT NAME: CENTER FOR ENTREPRENEURSHIP  
OWNER: SOUTH PIEDMONT COMMUNITY COLLEGE  
LOCATION: MONROE, NORTH CAROLINA

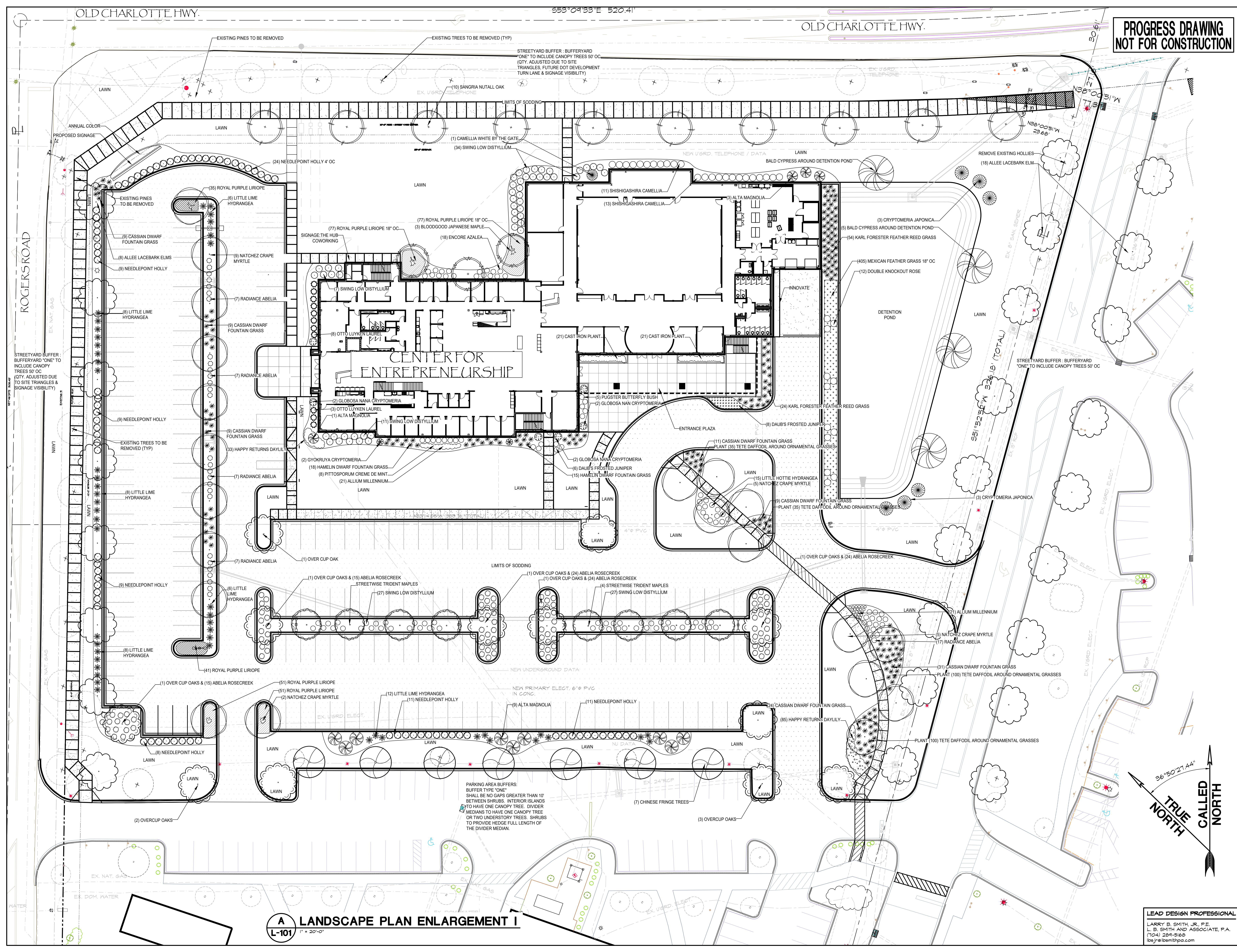
SCALE: 1" = 20'-0"  
DATE: JAN. 10, 2025  
DRAWN BY: TJ  
CHECKED BY: LBS, JR.

PROJECT NUMBER: #20-22115-02A  
PROJECT NUMBER: 2021.01

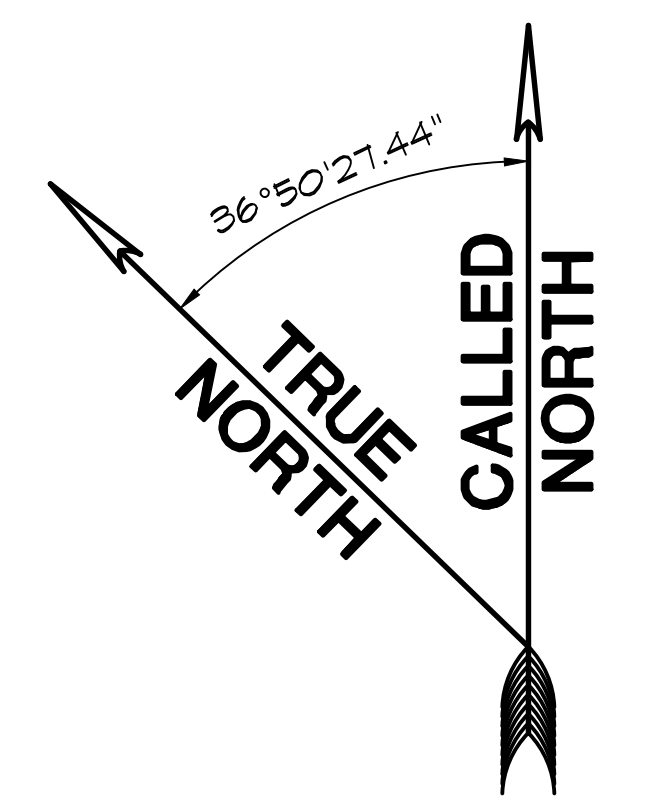
SCALE: 1" = 20'-0"  
DATE: JAN. 10, 2025  
DRAWN BY: TJ  
CHECKED BY: LBS, JR.

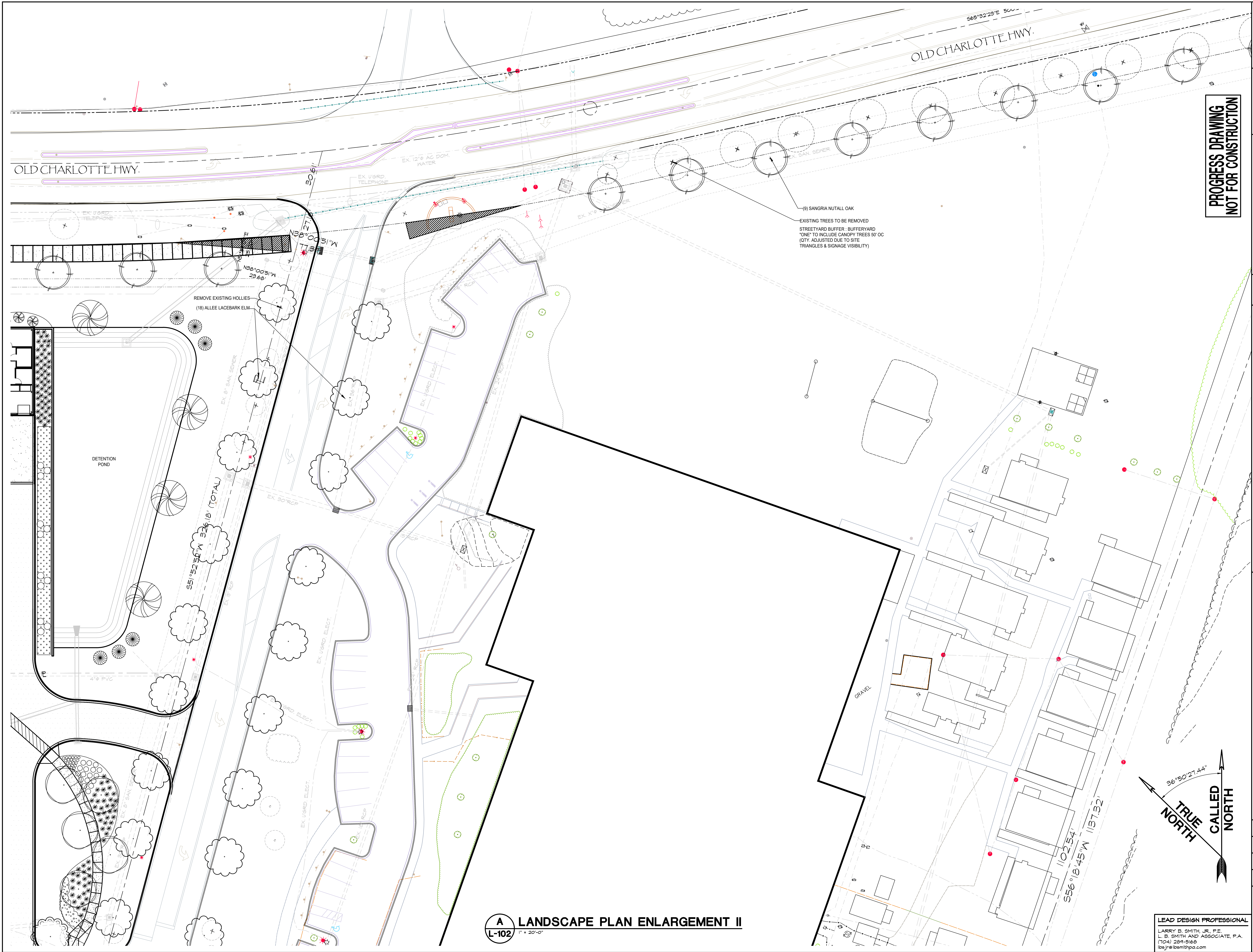
**L-101**

LEAD DESIGN PROFESSIONAL  
LARRY B. SMITH, JR., P.E.  
L. B. SMITH AND ASSOCIATE, P.A.  
(704) 284-5168  
lbsj@lbsmithpa.com



**A LANDSCAPE PLAN ENLARGEMENT I**  
L-101 1" = 20'-0"





565°32'28"E 500'

OLD CHARLOTTE HWY.

OLD CHARLOTTE HWY.

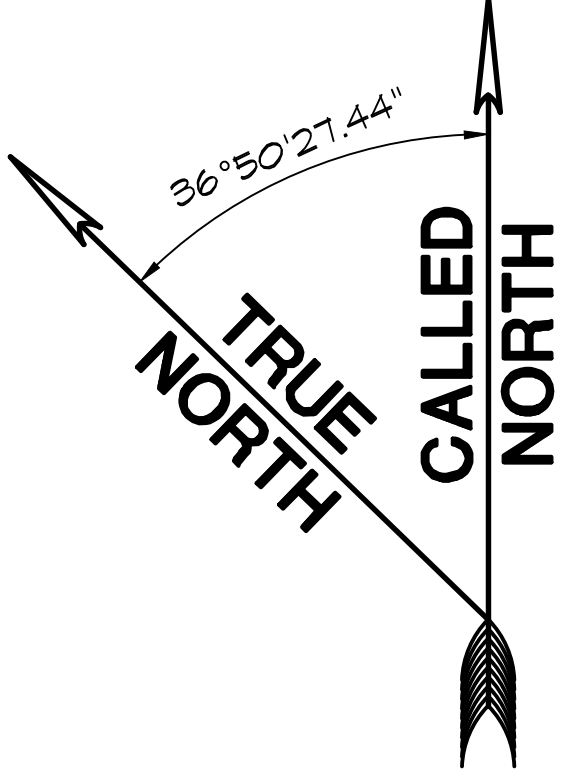
(9) SANGRIA NUTTALL OAK  
 EXISTING TREES TO BE REMOVED  
 STREETYARD BUFFER - BUFFERYARD  
 \*ONE\* TO INCLUDE CANOPY TREES 50' OC  
 (QTY. ADJUSTED DUE TO SITE  
 TRIANGLES & SIGNAGE VISIBILITY)

REMOVE EXISTING HOLLIES  
 (18) ALLEE LACEBARK ELM

DETENTION POND

55'52.50" W 326'8" (TOTAL)

GRAVEL

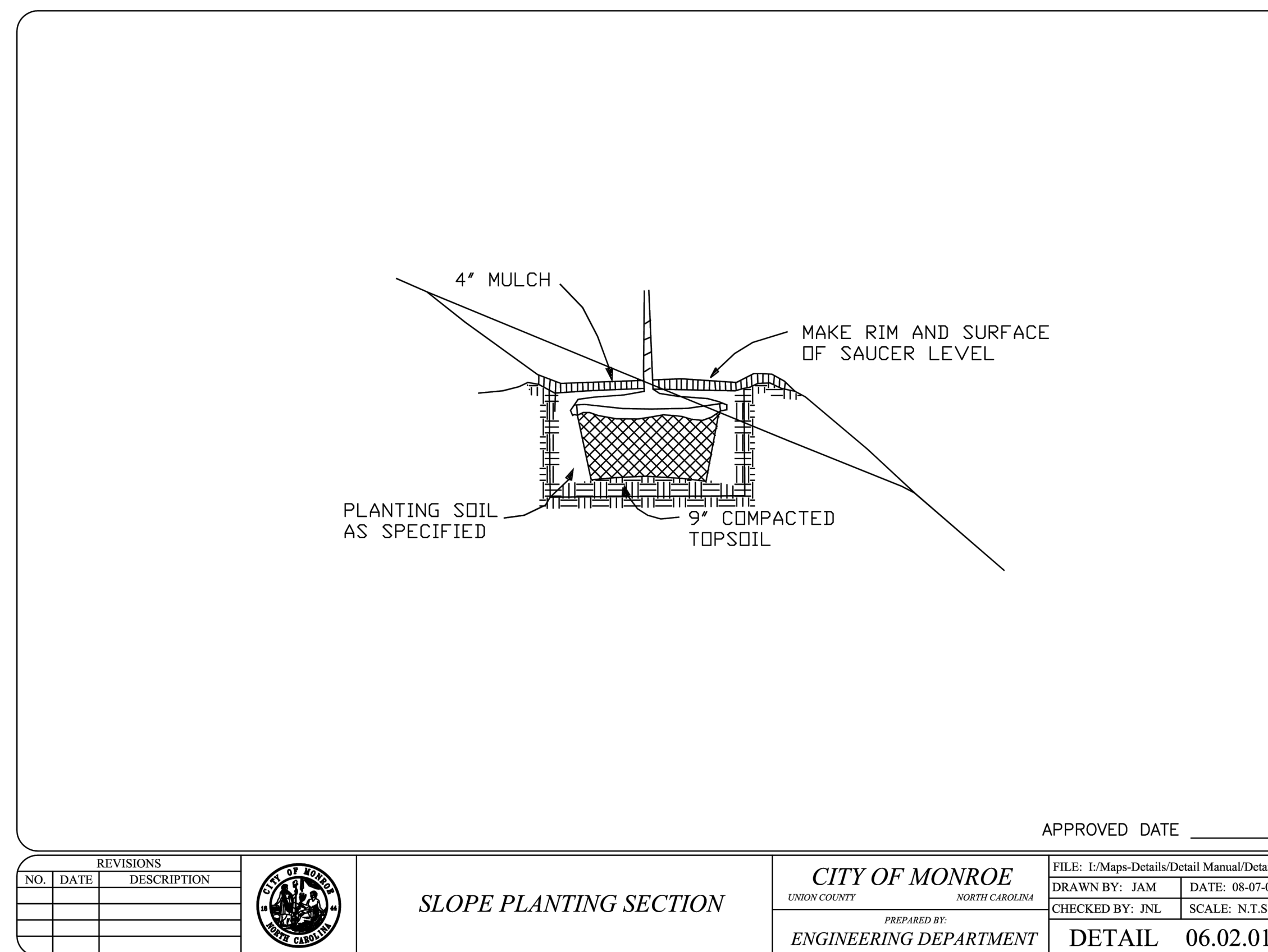
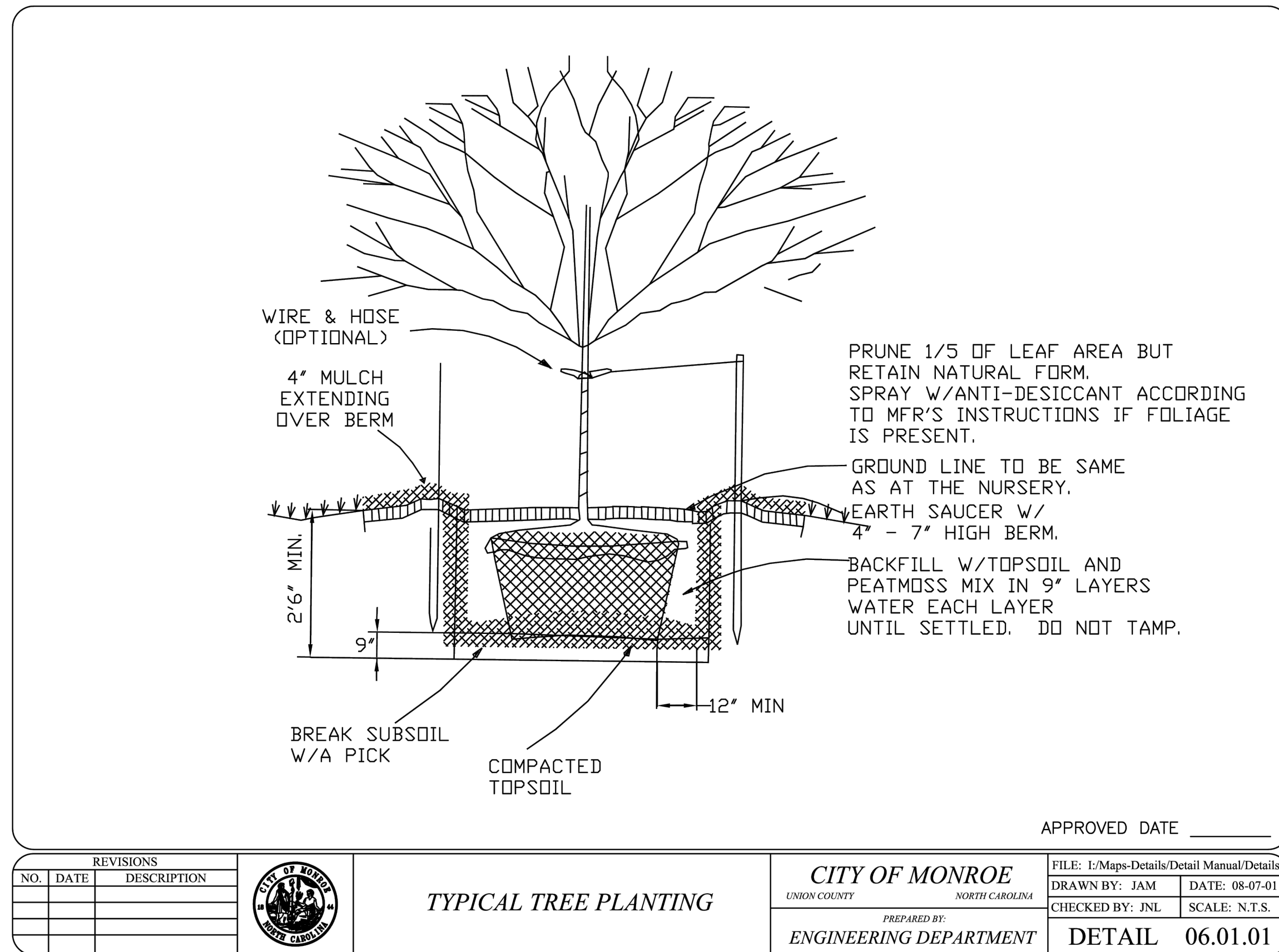


**A** LANDSCAPE PLAN ENLARGEMENT II  
 L-102 1" = 20'-0"

**PROGRESS DRAWING  
 NOT FOR CONSTRUCTION**

REVISIONS	DATE
<b>L. B. SMITH AND ASSOCIATE</b> ARCHITECTS ENGINEERS <small>2100 W. MARKET STREET, SUITE 200          MONROE, NORTH CAROLINA 28540          (704) 284-5168          lbsjr@lbsmithpa.com</small>	
SHEET TITLE: LANDSCAPE PLAN ENLARGEMENT II PROJECT NAME: CENTER FOR ENTREPRENEURSHIP OWNER: SOUTH PIEDMONT COMMUNITY COLLEGE LOCATION: MONROE, NORTH CAROLINA	
SCALE: 1" = 20'-0"	DATE: JAN. 10, 2025
DRAWN BY: T.J.	CHECKED BY: LBS, JR.
PROJECT NUMBER: #20-2115-02A	PROJECT NUMBER: 2021.01
<b>L-102</b> LEAD DESIGN PROFESSIONAL <small>LARRY B. SMITH, JR., P.E.          L. B. SMITH AND ASSOCIATE, P.A.          (704) 284-5168          lbsjr@lbsmithpa.com</small>	





**Water Service Connections and Backflow Prevention**

The location proposed for a water service connection has a significant impact on the location required for a service's backflow preventer. Because of this, the location requirements of both must be considered when designing locations for water service connections so that an optimal location for the backflow preventer can be achieved. It is strongly recommended to first contact Charlotte Water Installation and Development Services to approve the metering plan and location before submission for Building Permits.

**Location Requirements for Water Service Connections**

Service connections are typically installed at nominal right angles to the public water main in accordance with Charlotte Water Standards. The point of service connection typically will not be within a street or driveway intersection from curb return to curb return, nor will any portion of the service connection be within the intersection. The meter location will be directly adjacent to the parcel of land being served within the public right-of-way if possible. Meters shall be located at a point as close as feasible to the property line within which the main is located. All meters shall be located outside of driveways and other areas where access by Charlotte Water personnel for operation and maintenance may be restricted. The meter vault shall be located outside of travel lanes and driveways and shall be protected from vehicular traffic, as determined by Charlotte Water.

**Location Requirements for Backflow Assemblies**

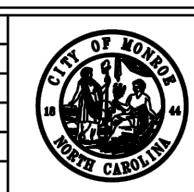
While service connections are installed by Charlotte Water or its authorized contractor per an approved plan, backflow prevention assemblies are required to be installed by the customer's contractor in compliance with the plan approved by Charlotte Water's Backflow Prevention staff.

Water service connections requiring backflow compliance must have the correct type of backflow preventer installed in a location directly behind and as near to the water meter as possible (see zoning setbacks requirements below). Due to the potential for future connections to the water service line and the risks of a catastrophic failure causing flooding conditions, it is Charlotte Waters' position that backflow assemblies must go outside. Therefore, backflow preventers shall be installed:

- at or near the meter such that no service branches are present upstream,
- at an elevation at least one foot above the community and FEMA 100-year floodplains, and
- in an area where grades provide positive drainage and slope is not excessively steep.

Zoning setbacks requirements impact the location allowed for outside above ground installations of backflow prevention assemblies. Above-ground backflow preventers shall be installed just after (on the building side) the front setback line and out of side yards, rear yards, and buffers when required by zoning ordinances.

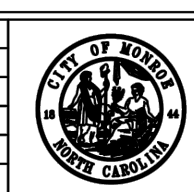
NO.	DATE	DESCRIPTION



**TYPICAL TREE PLANTING**

**CITY OF MONROE**  
UNION COUNTY NORTH CAROLINA  
ENGINEERING DEPARTMENT  
FILE: I:\Maps-Details\Detail Manual\Details  
DRAWN BY: JAM DATE: 08-07-01  
CHECKED BY: JNL SCALE: N.T.S.  
DETAIL 06.01.01

NO.	DATE	DESCRIPTION



**SLOPE PLANTING SECTION**

**CITY OF MONROE**  
UNION COUNTY NORTH CAROLINA  
ENGINEERING DEPARTMENT  
FILE: I:\Maps-Details\Detail Manual\Details  
DRAWN BY: JAM DATE: 08-07-01  
CHECKED BY: JNL SCALE: N.T.S.  
DETAIL 06.02.01

**PLANT LIST**

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	MINIMUM	COMMENTS
<b>TREES:</b>					
8	Acer buergerianum 'ABTIR'	Street Wise Trident Maple	B&B	2.5-3.0" cal.	single stem specimen. 5' clear trunk
3	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	B&B	7-8'	multi-stem specimen. 3 stems
7	Chionanthus virginicus	Native Fringe Tree	B&B	7-8'	branching full specimen
20	Lagerstroemia x faurei 'Natchez' (White)	Natchez Crape Myrtle	B&B	12-14'	multi-stem specimen. 3 stems
13	Magnolia grandiflora 'TMGH'	Alta Magnolia	B&B	8-9'	specimen full to ground
12	Quercus lyrata 'Highbeam'	Highbeam Overcup Oak	B&B	3.3.5" cal.	single stem specimen. 5' clear trunk
19	Quercus nuttallii 'QNSTD' PP#16254	Sangria Nuttall Oak	B&B	3-3.5" cal.	single stem specimen. 5' clear trunk
4	Taxodium distichum	Bald Cypress	B&B	2.5-3.0"	single stem specimen. 5' clear trunk
26	Ulmus parvifolia 'Allee'	Allee Elm	B&B	3.3.5" cal.	single stem specimen. 5' clear trunk
6	Cryptomeria japonica 'Yoshino'	Yoshino Cryptomeria	B&B	7-8'	specimen full to ground
<b>SHRUBS:</b>					
45	Abelia x 'Radiance'	Radiance Abelia	3 gal.	24" x 24"	
102	Abelia x 'Rose Creek'	Rose Creek Abelia	3 gal.	24" x 24"	
5	Buddleia x 'Pugster Amethyst'	Pugster Amethyst Butterfly Bush	3 gal.	24" x 24"	
18	Azalea x 'Autumn Angel'	Encore Azalea White	3 gal.	24" x 24"	
8	Pittosporum 'Shima' PP# 6449	Crème De Mint Dwarf Pittosporum	7 gal.	24" x 24"	
12	Rosa 'Radiko' PP#16,202	Double Knock Out® Rose	3 gal.	26" x 24"	
24	Camellia hiemalis 'Shishigashira'	Shishigashira Camellia	10 gal.	36" x 36"	
1	Camellia japonica 'White By The Gate'	White by the Gate Camellia	15 gal.	5-6'	
6	Cryptomeria japonica 'Globosa Nana'	Dwarf Globosa Cryptomeria	7 gal.	30" 30"	
2	Cryptomeria japonica 'Gyokuyua'	Gyokuyua Cryptomeria	15 gal.	5-6'	
106	Distylium x 'PIIDIST-VI'	Swing Low Distylium	3 gal.	24" x 24"	
48	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	3 gal.	24" x 24"	
15	Hydrangea paniculata 'Little Hottie'	Little Hottie Hydrangea	7gal.	36" x 36"	
15	Juniperus x media 'Daub's Frosted'	Daub's Frosted Juniper	3 gal.	18" x 18"	
11	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	BB	36 x 36"	
81	Ilex cornuta 'Needlepoint'	Needlepoint Dwarf Chinese Holly	7 gal.	36" x 36"	
<b>GROUNDCOVERS, GRASSES, &amp; PERENNIALS:</b>					
78	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	3 gal.	full	
33	Pennisetum alopecuroides 'Hamel'	Hamel Fountain Grass	3 gal.	full	
102	Pennisetum alopecuroides 'Cassian'	Cassian Fountain Grass	3 gal.	full	
42	Allium 'Millenium'	Millenium Allium	1 gal.	full	
42	Aspidistra elatior	Cast Iron Plant	1 gal.	full	
405	Nasella tenuissima	Mexican Feather Grass	1 gal.	full	
118	Hemerocallis 'Happy Returns	Happy Returns Daylily	1 gal.	full	
300	Narcissus x 'Tete' Tete'	Tete/Tete Daffodil	bulb	full	
154	Liriope muscari 'Royal Purple'	Royal Purple Monkey Grass	1 gal.	full	

\*\*\* LANDSCAPE CONTRACTOR RESPONSIBLE TO DOUBLE CHECK PLANT QUANTITIES WITH LANDSCAPE PLAN. DESIGNER NOT RESPONSIBLE FOR DISCREPANCIES BETWEEN PLANT LIST AND PLAN, SO PLEASE DOUBLE CHECK QUANTITIES. PLEASE CONTACT DESIGNER TO DISCUSS ANY SUBSTITUTIONS.

**LANDSCAPE CALCULATIONS**

**STREETSCAPE REQUIREMENTS:**

**ROGERS ROAD**

391' 7.50 = 8 CANOPY TREES REQUIRED  
8 CANOPY TREES PROVIDED

**OLD CHARLOTTE HWY.**

619' 7.50 = 12 CANOPY TREES REQUIRED  
10 CANOPY TREES PROVIDED DUE TO SITE TRIANGLE & SIGNAGE & RIGHT OF WAY

**PARKING LOT/ VEHICULAR AREA**

PARKING LOT TREES & SHRUBS PROVIDED ARE OVER REQUIRED QUANTITIES

**LANDSCAPE NOTES**

- ALL PLANTINGS SHALL BE INSTALLED ACCORDING TO ANLA'S AMERICAN STANDARDS FOR NURSERY STOCK (ANSI) RECOMMENDATIONS.
- PLEASE PROVIDE A SECOND ALTERNATE COST FOR IRRIGATION. SEE LIMITS OF IRRIGATION AS SHOWN ON PLAN. OWNER TO PROVIDE A SEPARATE IRRIGATION METER FOR IRRIGATION. LOCATION AND INSTALLATION OF SLEEVES UNDER WALKS AND DRIVES WILL NEED TO BE COORDINATED WITH BUILDING CONTRACTOR/ OWNER PRIOR TO PAVING. LANDSCAPE CONTRACTOR RESPONSIBLE FOR PROVIDING AN IRRIGATION AS-BUILT (TO SCALE) AND BE DELIVERED TO OWNER WITHIN 30 DAYS AFTER INSTALLATION. ALL BED AND LAWN AREAS TO BE SEPARATED. LANDSCAPE CONTRACTOR RESPONSIBLE FOR DESIGN AND LAYOUT OF IRRIGATION SYSTEM. ALL LANDSCAPE AREAS SHALL BE REQUIRED TO HAVE AN IRRIGATION SYSTEM THAT PROVIDES COVERAGE TO ALL PLANT MATERIALS. ALL COMPONENTS OF IRRIGATION SYSTEMS SHALL BE MAINTAINED IN PROPER WORKING ORDER. BED AREAS AND LAWN AREAS TO BE SEPARATED INTO SEPARATE ZONES. (SEE SPECIFICATIONS)
- ALL BEDS TO BE MULCHED W/ 3-4" DOUBLE-HAMMERED PINE BARK MULCH.
- STREET TREES SHALL BE LOCATED IN AN AREA NO FURTHER THAN TEN (10) FEET FROM THE EXISTING OR PROPOSED STREET RIGHT-OF-WAY LINE.
- ALL MATERIALS USED SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. PLEASE PROVIDE SAMPLES AS NEEDED
- PLEASE PROVIDE A COST FOR SEEDING SITE W/ HYBRID FESCUE (SEE SPECIFICATIONS). PLEASE PROVIDE AN ALTERNATE COST FOR HYBRID FESCUE SOD. SEE LIMITS OF SOD AS SHOWN ON PLAN.
- LANDSCAPE CONTRACTOR RESPONSIBLE FOR KEEPING SITE CLEAN DURING INSTALLATION. COORDINATE STORAGE OF LANDSCAPE MATERIALS AS NEEDED WITH BUILDING CONTRACTOR.
- ALL PLANT MATERIAL TO BE MAINTAINED DURING CONSTRUCTION TO INCLUDE WATERING OF ALL PLANT MATERIAL. LANDSCAPE CONTRACTOR RESPONSIBLE FOR WATERING UNTIL FINAL INSPECTION AND APPROVAL.
- PLANT MATERIAL MUST MEET SIZES LISTED ON PLANTING SCHEDULE. NO SUBSTITUTIONS WILL BE ALLOWED UNLESS APPROVED BY DESIGNER. SPECIMEN AND TOP QUALITY PLANT MATERIALS IS EXPECTED ON THIS JOB.
- PLEASE READ SOIL SPECIFICATIONS AND ADHERE TO THIS SPECIFICATION FOR ALL LANDSCAPE BEDS. DO NOT SKIP THIS STEP.

**SHRUB BED SPECIFICATION:**

- LAYOUT OF BEDS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- TILL ALL PROPOSED BEDS TO A DEPTH OF 8-12". DO NOT SKIP THIS STEP.
- SPREAD A 6" LAYER OF PLANTING MIX ON TOP OF THE BED. TILL IN PLANTING MIX TO A DEPTH OF 6".
- PLANTING MIX TO BE: GARDEN MIX W/ 15% PERMATIL.
- FINE GRADE BED TO DRAIN. REMOVE ANY ROCKS, CLODS, OR DEBRIS FROM THE BED THAT ARE GREATER THAN 1" IN DIAMETER.
- ALL PLANTING BEDS SHALL HAVE A 4" V-CUT TRENCH, STEEL EDGING, OR BRICK SOLDIER COURSE AT THE PERIMETER OF THE PLANTING BEDS AS SPECIFIED ON THE PLANTING PLAN.
- SET PLANT MATERIAL 2-3" ABOVE THE FINISHED GRADE. BACKFILL AROUND PLANT ROOT BALL WITH AMENDED SOIL. NO FILLING SHALL BE DONE AROUND ACTUAL TRUNKS OR STEMS OF PLANT MATERIAL. FIRM DOWN BACKFILL TO ELIMINATE ALL AIR POCKETS. FORM 2" HIGH COLLAR AROUND OUTER PERIMETER OF DRIP ZONE OF INDIVIDUAL PLANTS WITHIN PLANTING BEDS WHICH ARE NOT IRRIGATED.
- THOROUGHLY WATER IN ALL PLANT MATERIAL IMMEDIATELY AFTER INSTALLATION.
- MULCH ENTIRE BED AREA WITH A 2" LAYER OF DOUBLE-HAMMERED, SHREDDED HARDWOOD MULCH OR PINE NEEDLES OWNER'S PREFERENCE.

**ANNUAL & PERENNIAL BED SPECIFICATION:**

- LAYOUT OF ALL BEDS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- TILL EXISTING SOIL TO A DEPTH OF 8-12". DO NOT SKIP THIS STEP.
- SPREAD A 6" LAYER OF PLANTING MIX ON TOP OF THE BED. TILL IN PLANTING MIX TO A DEPTH OF 6".
- PLANTING MIX TO BE: GARDEN MIX W/ 15% PERMATIL.
- FINE GRADE BED TO DRAIN. REMOVE ANY ROCK, CLODS, OR DEBRIS FROM THE BED THAT ARE GREATER THAN 1" IN DIAMETER.
- ALL PLANTING BEDS SHALL HAVE A 4" V-CUT TRENCH AT THE PERIMETER OF THE PLANTING BEDS AS SPECIFIED ON THE PLAN.
- SET PLANT MATERIAL ABOVE THE FINISHED GRADE. BACKFILL AROUND PLANT ROOT BALL WITH AMENDED SOIL. NO FILLING SHALL BE DONE AROUND ACTUAL TRUNK OR STEMS OF PLANT MATERIAL. FIRM BACKFILL TO ELIMINATE ALL AIR POCKETS.
- THOROUGHLY WATER IN ALL PLANT MATERIAL IMMEDIATELY AFTER INSTALLATION.
- MULCH ENTIRE BED AREA WITH A 2" LAYER OF DOUBLE-HAMMERED, SHREDDED HARDWOOD MULCH OR PINE NEEDLES OWNER'S PREFERENCE.

\*\*\*NOTE: VARIATIONS FROM THE ABOVE PLANTING SPECIFICATIONS WILL NOT BE ALLOWED\*\*\*

REVISIONS

DATE

**WORKPLACE**  
ARCHITECTURE+DESIGN



**L. B. SMITH AND ASSOCIATE**  
ARCHITECTS  
ENGINEERS  
2110 COMMERCIAL BLVD.  
MONROE, NORTH CAROLINA 28051  
(704) 284-5168  
www.lbsmithpa.com

SHEET TITLE: **DETAILS AND PLANT LIST**  
PROJECT NAME: **CENTER FOR ENTREPRENEURSHIP**  
OWNER: **SOUTH PIEDMONT COMMUNITY COLLEGE**  
LOCATION: **MONROE, NORTH CAROLINA**  
SCALE: **N.T.S.**  
DATE: **JAN. 10, 2025**  
DRAWN BY: **TJ**  
CHECKED BY: **LBS, JR.**  
PROJECT NUMBER: **#20-22115-02A**  
PROJECT NUMBER: **2021.01**