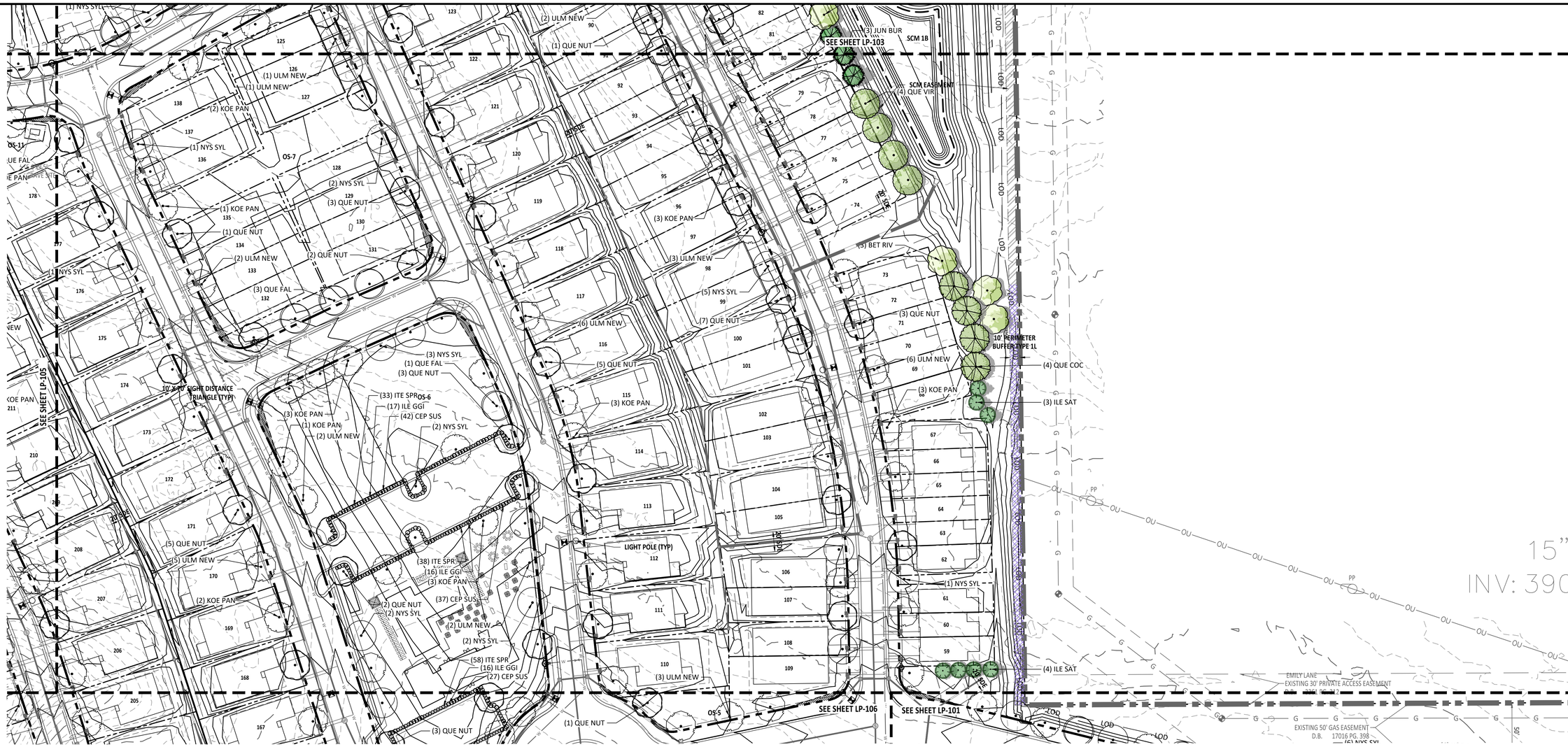


STREETSCAPE BUFFER & PARKING SCHEDULE LP-102

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	20	Single Straight Leader
	NYS SYL	Nyssa sylvatica / Tupelo	2" Cal.	B&B	8' Height Min.	18	Single Straight Leader
	QUE FAL	Quercus falcata / Southern Red Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	29	Single Straight Leader
	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	26	Single Straight Leader
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		QTY	REMARKS
SHRUBS							
	CEP SUS	Cephalanthus occidentalis 'SMCOSS' / Sugar Shack® Buttonbush	18" Height Min.			82	Fully Rooted
	ILE GGI	Ilex glabra 'SMNIGAB17' / Gem Box® Inkberry Holly	18" Height Min.			34	Fully Rooted
	ITE SPR	Itea virginica 'Sprich' / Little Henry® Sweetspire	18" Height Min.			72	Fully Rooted

NOTES:
1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.**

BUFFER PLANT SCHEDULE

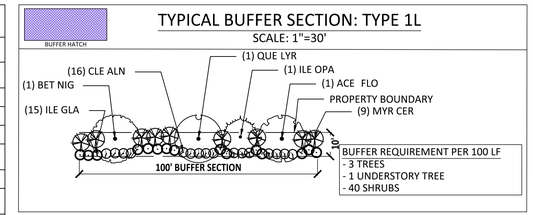
CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra		3 GAL	18" MIN	FULLY ROOTED
ILE GLA	Ilex Glabra / Inkberry		5 GAL	24" MIN	FULLY ROOTED
MYR CER	Myrica cerifera / Southern Wax Myrtle		5 GAL	24" MIN	FULLY ROOTED

REPLACEMENT TREE PLANT SCHEDULE LP-102

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
MITIGATION TREES							
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	3	Single Straight Leader
	ILE SAT	Ilex opaca 'Satyr Hill' / Satyr Hill American Holly	2" Cal.	B&B	8' Height Min.	7	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	2	Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader

TYPICAL BUFFER SECTION: TYPE 1L

SCALE: 1"=30'



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

North Carolina 811 — 1-Call
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North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
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NORTH CAROLINA ARCHITECTURE AND ENGINEERING SERVICES
C-652

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LAUREN E. DICKSON
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NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

MERRITT RESERVE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.: **LP-102**

Z:\Jobs\23-0004 Merrit Property BRD\Dwg_Working Dwgs\Sheets\Construction Set\LP-102 Landscape Plan (50 Scale).dwg

2025-07-02

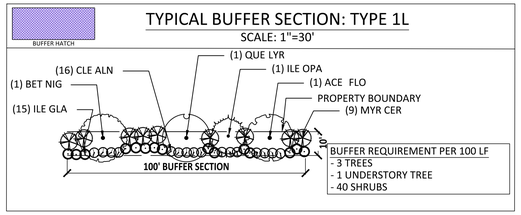
STREET TREE SCHEDULE LP-103

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	21	Single Straight Leader
	NYS SYL	Nyssa sylvatica / Tupelo	2" Cal.	B&B	8' Height Min.	13	Single Straight Leader
	QUE FAL	Quercus falcata / Southern Red Oak	2" Cal.	B&B	8' Height Min.	16	Single Straight Leader
	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	19	Single Straight Leader
	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	23	Single Straight Leader

NOTES:
1. REPLACEMENT TREES SHOWN IN COLOR.
2. SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.
3. TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.

TYPICAL BUFFER SECTION: TYPE 1L

SCALE: 1"=30'



BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra		3 GAL	18" MIN	FULLY ROOTED
ILE GLA	Ilex Glabra / Inkberry		5 GAL	24" MIN	FULLY ROOTED
MYR CER	Myrica cerifera / Southern Wax Myrtle		5 GAL	24" MIN	FULLY ROOTED

REPLACEMENT TREE PLANT SCHEDULE LP-103

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
MITIGATION TREES							
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	16	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

North Carolina 811 — Know what's below. Call before you dig.
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1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.: **LP-103**

Z:\Jobs\23-0004 Merrit Property BRIO\dwg_Working Dwgs\Sheets\Construction Set\LP-103 Landscape Plan (50 Scale).dwg

2025-07-02

STREETSCAPE BUFFER SCHEDULE LP-104

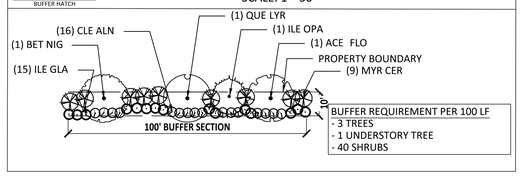
SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY
TREES						
	KOE PAN	Koelreuteria paniculata Golden Rain Tree Single Straight Leader	2" Cal.	B&B	8' Height Min.	21
	NYS SYL	Nyssa sylvatica Tupelo Single Straight Leader	2" Cal.	B&B	8' Height Min.	6
	QUE FAL	Quercus falcata Southern Red Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	15
	QUE NUT	Quercus nuttallii Nuttall Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	13
	ULM NEW	Ulmus americana 'New Harmony' New Harmony American Elm Single Straight Leader	2" Cal.	B&B	8' Height Min.	14

NOTES:
1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.**

TYPICAL BUFFER SECTION: TYPE 1L

BUFFER HATCH

SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 40 SHRUBS

BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra	3 GAL	18" MIN	FULLY ROOTED	
ILE GLA	Ilex Glabra / Inkberry	5 GAL	24" MIN	FULLY ROOTED	
MYR CER	Myrica cerifera / Southern Wax Myrtle	5 GAL	24" MIN	FULLY ROOTED	

PLANT SCHEDULE LP-104

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
MITIGATION TREES							
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	19	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	3	Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	TAX DIS	Taxodium distichum / Bald Cypress	2" Cal.	B&B	8' Height Min.	3	Single Straight Leader

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = RSD-275-X02

North Carolina 811 Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ARCHITECTURE AMERICAN SERVICES C-652

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STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

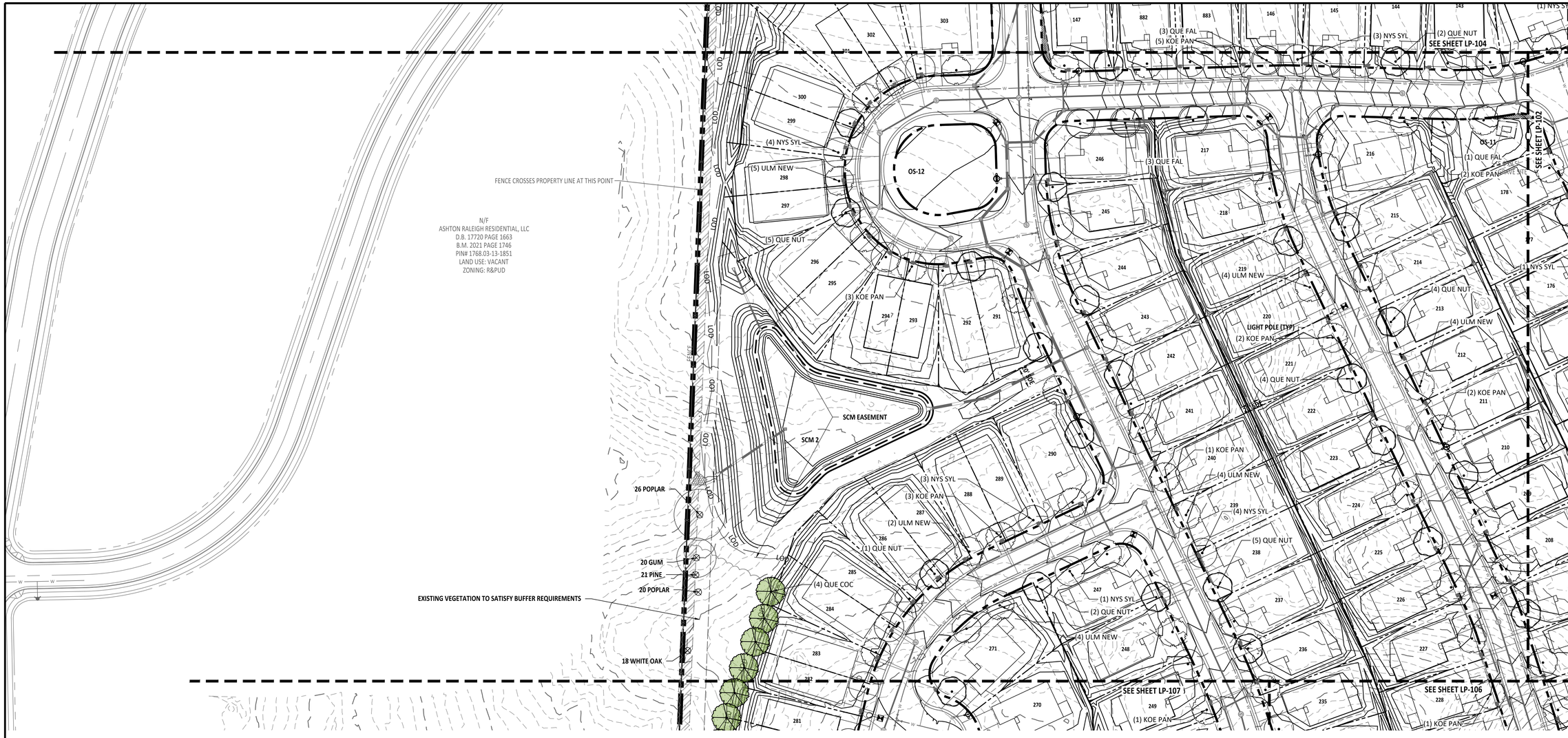
SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.: **LP-104**

Z:\Jobs\23-0004 Merrit Property 8870\dwg_Working Dwgs\Sheets\Construction Set\LP-104 Landscape Plan (50 Scale).dwg

2025-07-02



STREETSCAPE BUFFER SCHEDULE LP-105

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	17	Single Straight Leader
	NYS SYL	Nyssa sylvatica / Tupelo	2" Cal.	B&B	8' Height Min.	15	Single Straight Leader
	QUE FAL	Quercus falcata / Southern Red Oak	2" Cal.	B&B	8' Height Min.	7	Single Straight Leader
	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	23	Single Straight Leader
	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	23	Single Straight Leader

TREE REPLACEMENT PLANT SCHEDULE LP-105

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	DETAIL	REMARKS
MITIGATION TREES								
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	4		Single Straight Leader

NOTES:

1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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American Engineering Associates - Southeast, P.A.
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NORTH CAROLINA ARCHITECTURE AMERICANEA, SERVICES C-652

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STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

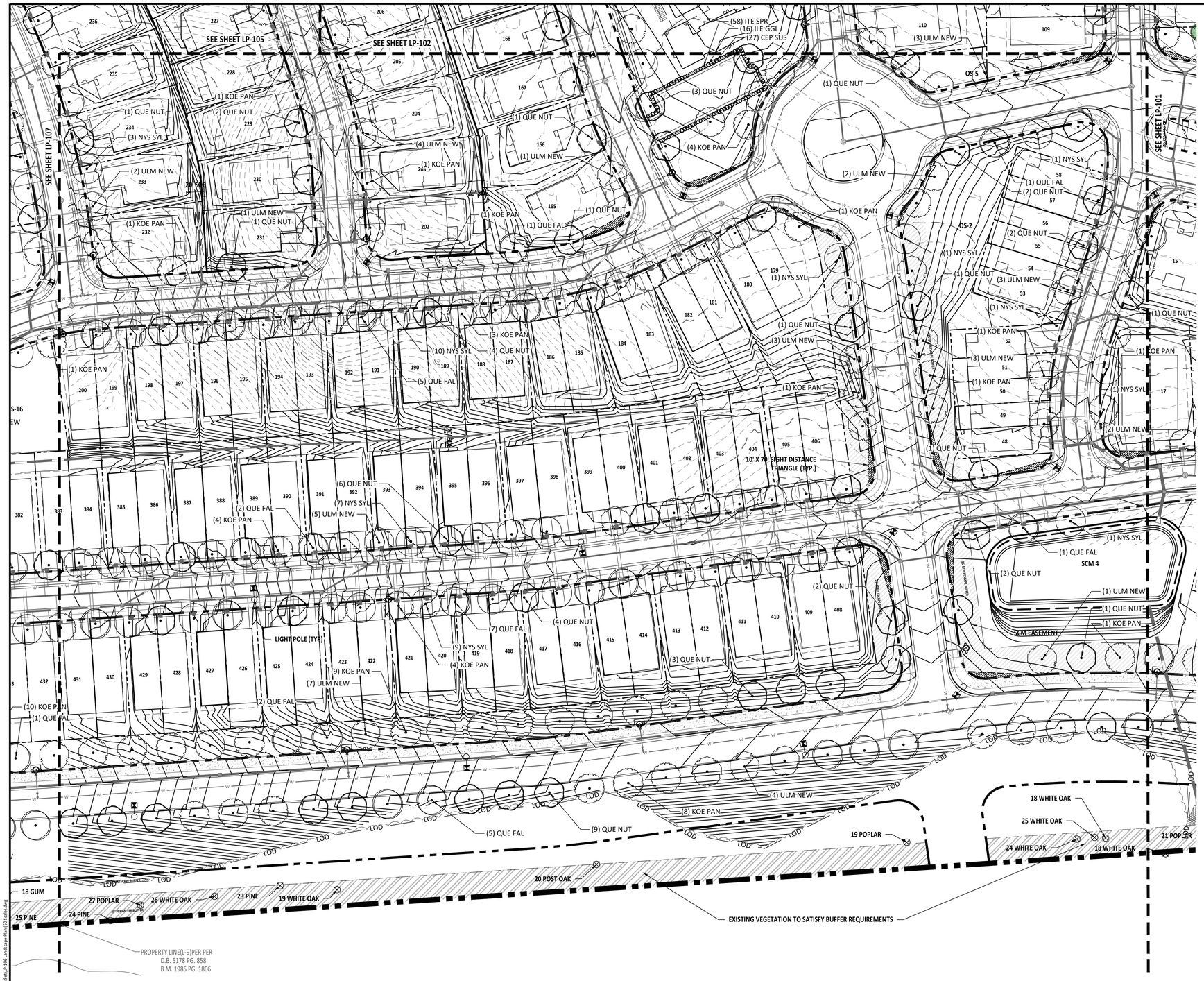
LANDSCAPE PLAN

SHEET NO.: **LP-105**

North Carolina 811 Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property BRD\Dwg_Working Dwgs\Sheets\Construction Set\LP-105 Landscape Plan (05 Scale).dwg

2025-07-02



STREETSCAPE BUFFER SCHEDULE LP-105

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY
TREES						
	KOE PAN	Koelreuteria paniculata Golden Rain Tree Single Straight Leader	2" Cal.	B&B	8' Height Min.	17
	NYS SYL	Nyssa sylvatica Tupelo Single Straight Leader	2" Cal.	B&B	8' Height Min.	15
	QUE FAL	Quercus falcata Southern Red Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	7
	QUE NUT	Quercus nuttallii Nuttall Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	23
	ULM NEW	Ulmus americana 'New Harmony' New Harmony American Elm Single Straight Leader	2" Cal.	B&B	8' Height Min.	23

NOTES:
1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIREMENTS.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.: **LP-106**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property BRP\dwg_Working Dwgs\Sheets\Construction Set\LP-106 Landscape Plan (50 Scale).dwg

2025-07-02

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

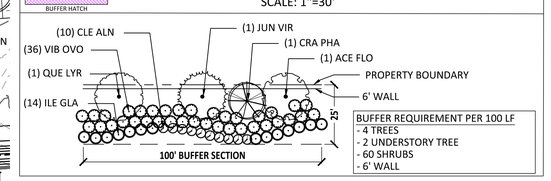
STREETSCAPE BUFFER SCHEDULE LP-107

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY
TREES						
	KOE PAN	Koelreuteria paniculata Golden Rain Tree Single Straight Leader	2" Cal.	B&B	8' Height Min.	27
	NYS SYL	Nyssa sylvatica Tupelo Single Straight Leader	2" Cal.	B&B	8' Height Min.	25
	QUE FAL	Quercus falcata Southern Red Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	25
	QUE NUT	Quercus nuttallii Nuttall Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	23
	ULM NEW	Ulmus americana 'New Harmony' New Harmony American Elm Single Straight Leader	2" Cal.	B&B	8' Height Min.	31

NOTES:
1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIRMENTS.**

TYPICAL BUFFER SECTION: TYPE 3

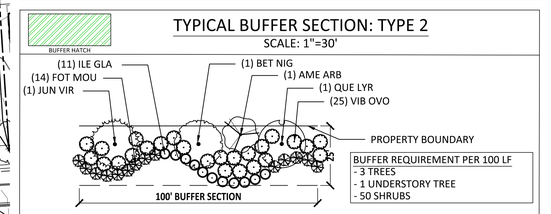
SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 4 TREES
- 2 UNDERSTORY TREE
- 60 SHRUBS
- 6' WALL

TYPICAL BUFFER SECTION: TYPE 2

SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 50 SHRUBS

BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
JUN VIR	Juniperus virginiana 'Brodie' / Brodie Eastern Red Cedar	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
AME ARB	Amelanchier x Grandiflora 'Autumn Brillance'/ Autumn Brillance Serviceberry	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
CRA PHA	Crataegus phaenopyrum / Washington Hawthorn	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra	3 GAL	18" MIN	FULLY ROOTED	
ILE GLA	Ilex Glabra / Inkberry	5 GAL	24" MIN	FULLY ROOTED	
VIB OBO	Viburnum Obovatum 'Mrs Schiller's Delight' / Mrs Schillers Delight Viburnum	5 GAL	24" MIN	FULLY ROOTED	
FOT MOU	Fothergilla 'Mount Airy' / MT Airy Fothergilla	3 GAL	18" MIN	FULLY ROOTED	

REPLACEMENT TREE PLANT SCHEDULE LP-107

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY
MITIGATION TREES						
	BET RIV	Betula nigra / River Birch Single Straight Leader	2" Cal.	B&B	8' Height Min.	2
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar Single Straight Leader	2" Cal.	B&B	8' Height Min.	3
	QUE COC	Quercus coccinea / Scarlet Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	4
	TAX DIS	Taxodium distichum / Bald Cypress Single Straight Leader	2" Cal.	B&B	8' Height Min.	14

PROJECT NUMBER = CID-25-02

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Remote Ticket Entry
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NORTH CAROLINA C-652 AMERICAN ENGINEERING SERVICES

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FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

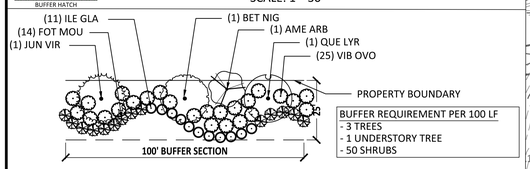
SHEET NO.: **LP-107**

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\LP-107 Landscape Plan (SD Sales).dwg

2025-07-02

TYPICAL BUFFER SECTION: TYPE 2

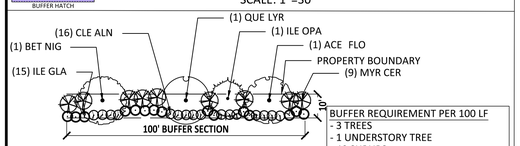
SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 50 SHRUBS

TYPICAL BUFFER SECTION: TYPE 1L

SCALE: 1"=30'



BUFFER REQUIREMENT PER 100 LF
- 3 TREES
- 1 UNDERSTORY TREE
- 40 SHRUBS

STREETSCAPE BUFFER SCHEDULE LP-108

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY
TREES						
	KOE PAN	Koelreuteria paniculata Golden Rain Tree Single Straight Leader	2" Cal.	B&B	8' Height Min.	17
	QUE FAL	Quercus falcata Southern Red Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	22
	QUE NUT	Quercus nuttallii Nuttall Oak Single Straight Leader	2" Cal.	B&B	8' Height Min.	29
	ULM NEW	Ulmus americana 'New Harmony' New Harmony American Elm Single Straight Leader	2" Cal.	B&B	8' Height Min.	26

NOTES:
1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIRMENTS.**

REPLACEMENT TREE SCHEDULE LP-108

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
MITIGATION TREES							
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	9	Single Straight Leader
	ILE SAT	Ilex opaca 'Satyr Hill' / Satyr Hill American Holly	2" Cal.	B&B	8' Height Min.	3	Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	9	Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	4	Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	6	Single Straight Leader
	TAX DIS	Taxodium distichum / Bald Cypress	2" Cal.	B&B	8' Height Min.	3	Single Straight Leader

BUFFER PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	REMARKS
TREES					
ACE FLO	Acer Floridanum / Southern Sugar Maple	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
QUE LYR	Quercus Lyrata / Overcup Oak	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
JUN VIR	Juniperus virginiana 'Brodie' / Brodie Eastern Red Cedar	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
BET NIG	Betula nigra / Riverbirch	3"	B&B	12' MIN	SINGLE STRAIGHT LEADER
UNDERSTORY TREES					
AME ARB	Amelanchier x Grandiflora 'Autumn Brillance'/ Autumn Brillance Serviceberry	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
ILE OPA	Ilex opaca 'Tinga' / Tinga American Holly	2"	B&B	8' MIN	SINGLE STRAIGHT LEADER
SHRUBS					
CLE ALN	Clethra Alnifolia 'Ruby Spice' / Ruby Spice Clethra		3 GAL	18" MIN	FULLY ROOTED
ILE GLA	Ilex Glabra / Inkberry		5 GAL	24" MIN	FULLY ROOTED
VIB OBO	Viburnum Obovatum 'Mrs Schiller's Delight' / Mrs Schillers Delight Viburnum		5 GAL	24" MIN	FULLY ROOTED
MYR CER	Myrica cerifera / Southern Wax Myrtle		5 GAL	24" MIN	FULLY ROOTED
FOT MOU	Fothergilla 'Mount Airy' / MT Airy Fothergilla		3 GAL	18" MIN	FULLY ROOTED

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA PROFESSIONAL ENGINEERING SERVICES C-652

PRELIMINARY

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
LAUREN E. DICKSON
NORTH CAROLINA PROFESSIONAL ENGINEER
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER: 23-0004
CHECKED BY: BH
DRAWN BY: DH/RC/SM/GE/MA/LL/JB
DATE: 05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.: **LP-108**

Z:\Jobs\23-0004 Merritt Property BRP\dwg_Working Dwgs\Sheets\Construction Set\LP-108 Landscape Plan (50 Scale).dwg

2025-07-02

STREETSCAPE BUFFER SCHEDULE LP-109

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	KOE PAN	Koelreuteria paniculata / Golden Rain Tree	2" Cal.	B&B	8' Height Min.	12	Single Straight Leader
	QUE NUT	Quercus nuttallii / Nuttall Oak	2" Cal.	B&B	8' Height Min.	11	Single Straight Leader
	ULM NEW	Ulmus americana 'New Harmony' / New Harmony American Elm	2" Cal.	B&B	8' Height Min.	18	Single Straight Leader

NOTES:

1. **REPLACEMENT TREES SHOWN IN COLOR.**
2. **SEE OVERALL LANDSCAPE PLAN FOR BUFFER PLANT QUANTITIES.**
3. **TOWN OF ROLESVILLE STAFF TO WALK SITE AFTER CLEARING OPERATIONS HAVE FINISHED TO DETERMINE IF EXISTING SITE VEGETATION MEETS BUFFER REQUIREMENTS OR IF SUPPLEMENTAL PLANTINGS ARE NEEDED TO MEET REQUIRMENTS.**

REPLACEMENT TREE SCHEDULE LP-109

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	DETAIL	REMARKS
MITIGATION TREES								
	BET RIV	Betula nigra / River Birch	2" Cal.	B&B	8' Height Min.	4		Single Straight Leader
	ILE SAT	Ilex opaca 'Satyr Hill' / Satyr Hill American Holly	2" Cal.	B&B	8' Height Min.	5		Single Straight Leader
	JUN BUR	Juniperus virginiana 'Burkii' / Burk Eastern Red Cedar	2" Cal.	B&B	8' Height Min.	5		Single Straight Leader
	QUE COC	Quercus coccinea / Scarlet Oak	2" Cal.	B&B	8' Height Min.	2		Single Straight Leader
	QUE VIR	Quercus virginiana / Southern Live Oak	2" Cal.	B&B	8' Height Min.	4		Single Straight Leader
	TAX DIS	Taxodium distichum / Bald Cypress	2" Cal.	B&B	8' Height Min.	9		Single Straight Leader

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ARCHITECTURE AMERICAN E.A. SERVICES C-652

PRELIMINARY

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LAUREN E. DICKSON

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STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

LANDSCAPE PLAN

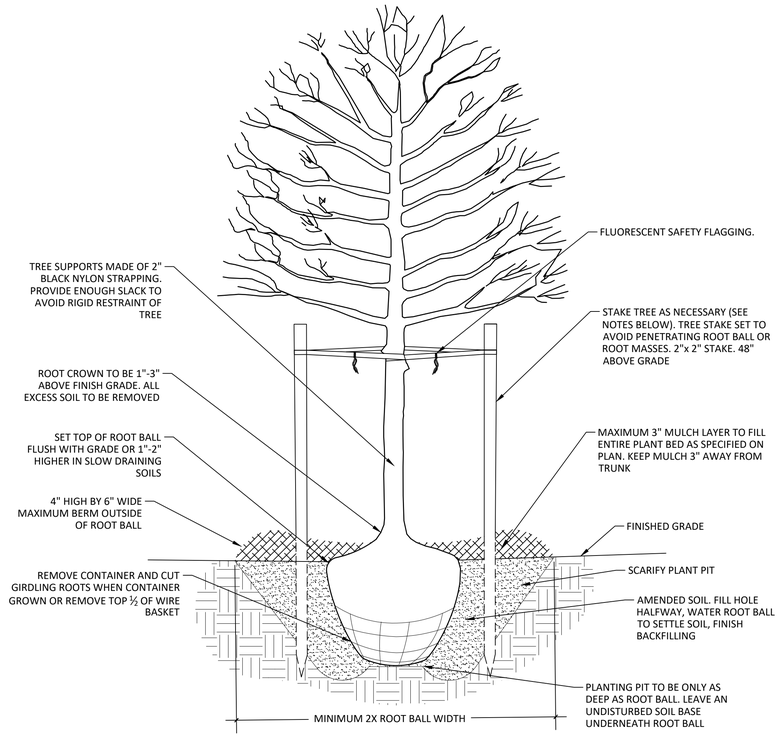
SHEET NO.: **LP-109**

Z:\Jobs\23-0004 Merrit Property 8870\Dwg_Working Dwgs\Sheets\Construction Set\LP-109 Landscape Plan (50 Scale).dwg

2025-07-02

GENERAL PLANTING NOTES

1. All plant material shall conform with the standards set forth by the American Association of Nurserymen, American Standard for Nursery Stock, ANSI.Z60.1.
2. Locate all existing utilities prior to installation of plant material. Notify owner of any discrepancies between field conditions and those shown on the plan.
3. Contractor engaged in landscape installation shall be a landscape contractor registered in the state of North Carolina.
4. Tree protection fence shall be maintained on site until all site work and the final site inspection is completed. The fencing shall be removed prior to the certificate of occupancy (CO) inspection is scheduled
5. Verification of total quantities as shown on the plant list shall be the responsibility of the contractor.
6. All plant groupings shall be mulched as one bed. 3" of triple shredded hardwood mulch shall be used around all plantings.
7. Apply pre-emergent herbicide to all new planting beds at manufacturer's recommended rate prior to installation of mulch.
8. Establish positive drainage in all planting beds and away from buildings.
9. Do not install plant material in impervious soils, (i.e. holes which , when filled with water, do not completely drain within two hours.)
10. Lawn areas shall be seeded with Riviera or Sunstar Bermuda grass 95% coverage (based on a per square yard sample) shall be attained prior to final inspection. All 3:1 slopes shall be stabilized with biodegradable erosion control matting. See detail sheet seeding schedule.
11. General contractor shall be responsible for keeping all equipment & subcontractors away from seeded areas. If damage occurs, through no fault of the owner, areas shall be regraded and reseeded immediately at no additional cost to the owner. Contractor shall water and maintain those areas until they are at 95% coverage at final completion.
12. Install permanent seeding along all roadside ditches and channels within construction limits of project. see erosion control plans for additional information.
13. Areas damaged from plant relocation or other activities of landscape contractor to be reseeded and established at no additional cost to the owner.
14. Mulch and no-mow mixes shall be replenished as needed, especially after heavy rain events. If no-mow mix germinates at a rate of less than 90%, other species shall be removed and the area re-seeded.
15. Contractor is responsible for importing, testing, and preparing the soil on site per the recommendations of a soil test.
16. Plants shall be watered at least 2 times per week unless soil is moist based on core sample or moisture meter reading. Water more frequently during establishment.
17. Remove (either manually or with pesticide treatment) all weeds in mulch areas, plant beds, tree rings, and hardscape areas: including but not limited to nutsedge, grasses, invasive plants, and any non-desirable plant material. This treatment shall occur monthly until the end of the warranty / maintenance period.
18. Mulch line smooth continuous curves.
19. All trees not within a plant bed to be treated with a 6-ft diameter mulch ring (typ).
20. All foundation trees are to be planted a minimum of 8' away from building wall. Notify Landscape Architect of any discrepancies.
21. When possible, planting shall be installed between September 1 - June 30th and in favorable weather conditions. When planting must be performed outside of specified date, plants must be watered on a regular basis to ensure viability.



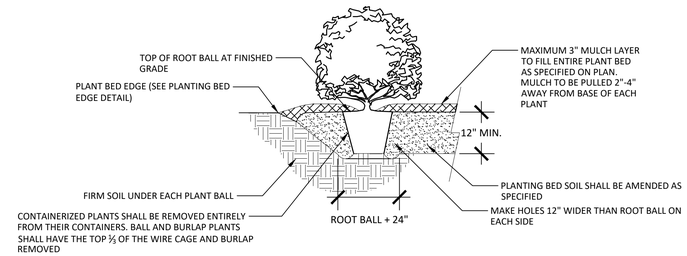
NOTES:

1. ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)
2. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
3. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
4. DO NOT STAKE OR WRAP TRUNK UNLESS:
   A. TREE HAS A LARGE CROWN.
   B. PLANTING SITE IS CONSISTENTLY WINDY OR IS A STEEP SLOPE.
   C. PLANTING SITE IS SUSCEPTIBLE TO VANDALISM.
6. REMOVE ALL STAKING MATERIAL AFTER 1 YEAR.
7. REMOVE ALL TAGS AND LABELS FROM PLANT MATERIAL.
8. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. ONLY PRUNE CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED.

2 TYPICAL TREE PLANTING

NOT TO SCALE

P-RE-R-R230004-01



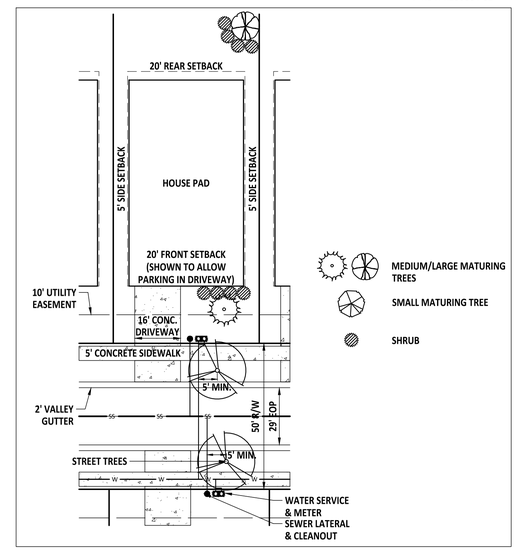
NOTES:

1. SCARIFY ROOT MASS OF CONTAINERIZED PLANTS.
2. PLANT ROOT BALL SHOULD BE INSTALLED 1"-3" MAXIMUM ABOVE FINISHED GRADE.
3. WATER EACH PLANT IMMEDIATELY AFTER INSTALLATION AND BEFORE INSTALLATION OF MULCH.
4. PLANT PITS ONLY FOR SINGLE PLANTS. FOR PLANT BEDS, PREPARE THE ENTIRE BED AREA.
5. SPACING OF SHRUBS VARIES, REFER TO LANDSCAPE PLANS.

1 TYPICAL SHRUB PLANTING

NOT TO SCALE

P-RE-R-R230004-02



TYPICAL LOT PLANTING DETAIL
(ACTUAL DESIGN TO BE DETERMINED AT TIME OF CONSTRUCTION)

NOT TO SCALE

PROJECT NUMBER = CID-25-02

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA PROFESSIONAL ARCHITECTURAL SERVICES C-652

PRELIMINARY

NORTH CAROLINA PROFESSIONAL SEAL 7016 LAUREN E. DICKSON

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025
SHEET TITLE:	
SHEET NO.:	

North Carolina 811 Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property BR\Dwg_Working Dwgs\Sheets\Construction Set\LP-500 Landscape Details.dwg

2025-07-02

MATCHLINE TO SHEET 2

NO.	DATE	REVISION	BY

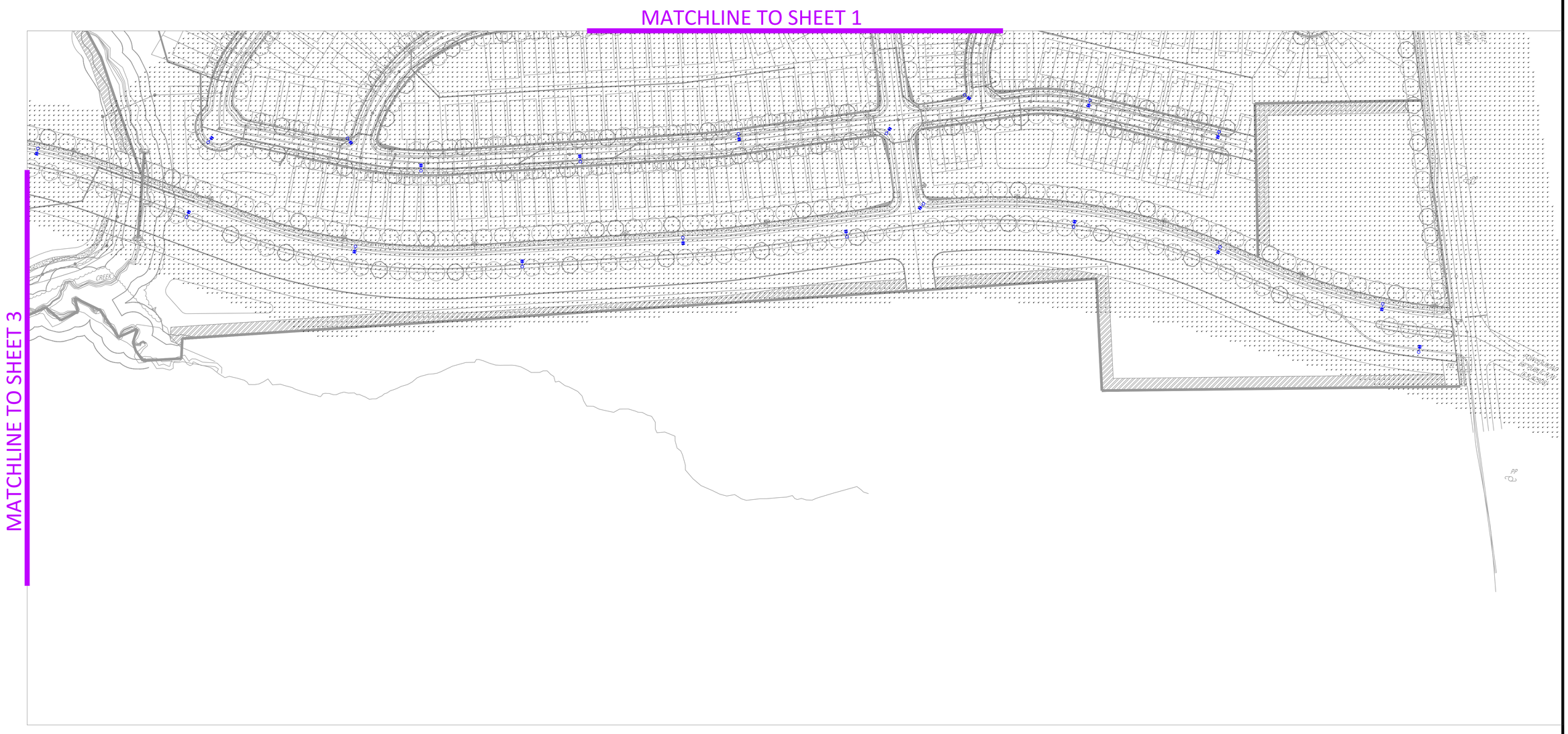
LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

DUKE ENERGY® PROGRESS

MERRITT SUBDIVISION
ROLESVILLE, NC
STREET LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by A. Herrera Scale 1" = 100'
Date 4/16/2025 Size Drawing size "D"
Description LED Roadway
Drawing No. 25-0160 Sht. 1 OF 3



NO.	DATE	REVISION	BY

LIGHTING DESIGN TOLERANCE

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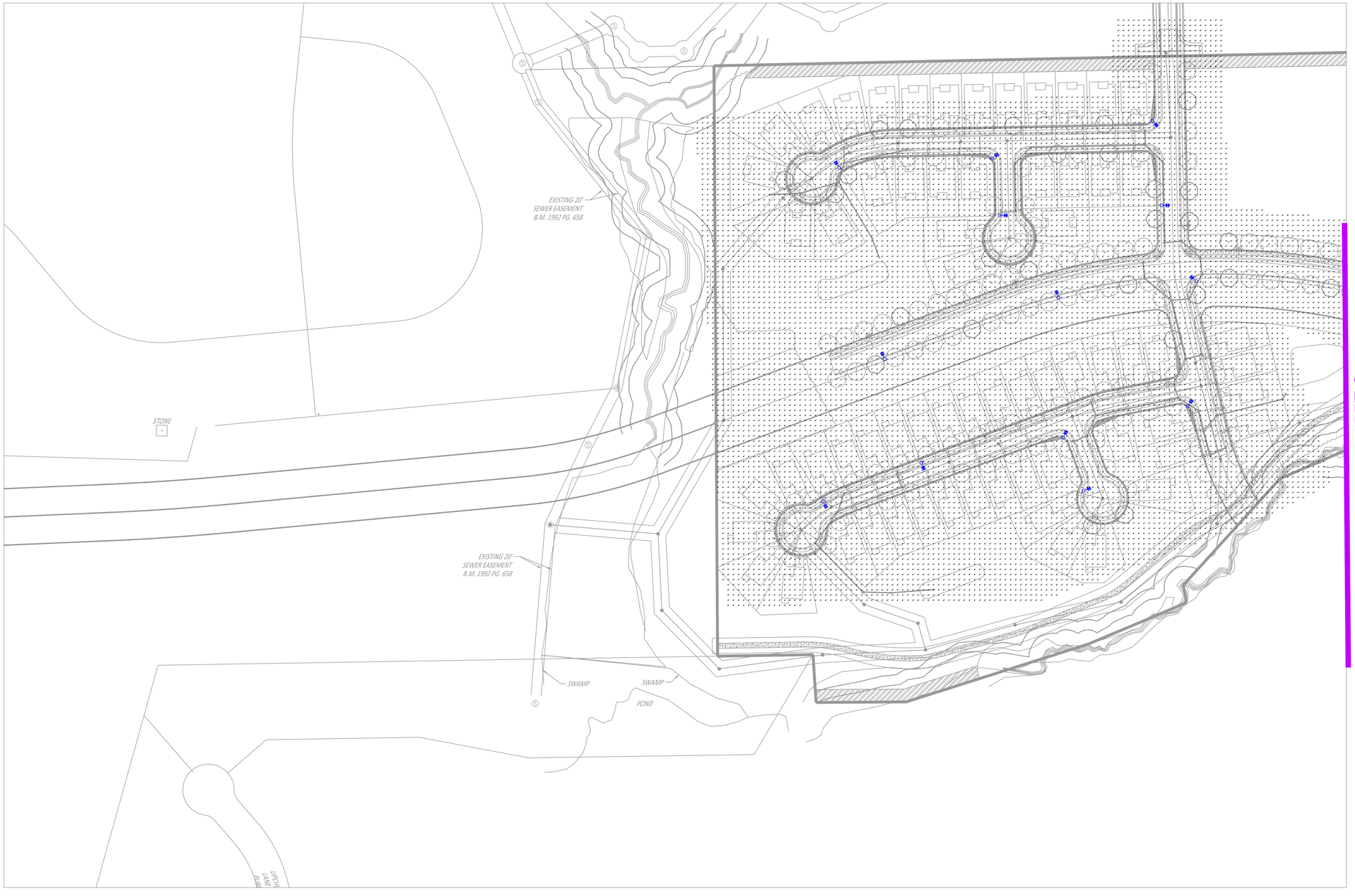
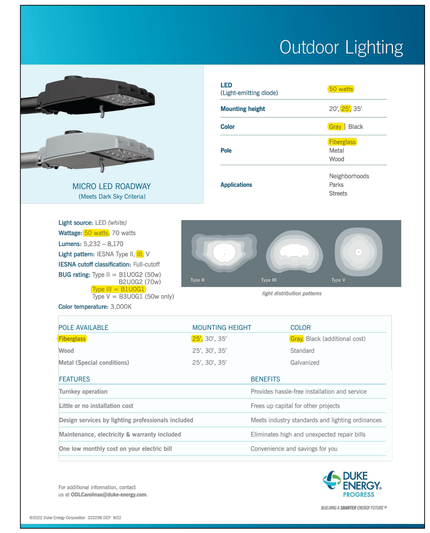
DUKE ENERGY® PROGRESS

MERRITT SUBDIVISION
ROLESVILLE, NC
STREET LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by A. Herrera Scale 1" = 100'
Date 4/16/2025 Size Drawing size "D"
Description LED Roadway
Drawing No. 25-0160 Sht. 2 OF 3





Outdoor Lighting

MICRO LED ROADWAY
(Meets Dark Sky Criteria)

LED (Light-emitting diode)	50 watts
Mounting height	20', 25', 35'
Color	Gray	Black
Pole	Fiberglass Metal Wood
Applications	Neighborhoods Parks Streets

Light source: LED (white)
Wattage: 50 watts, 70 watts
Lumens: 5,232 – 8,170
Light pattern: IESNA Type II, III, V
IESNA cutoff classification: Full-cutoff
BUG rating: Type II = B1U0G2 (50w)
B2U0G2 (70w)
Type III = B1U0G1
Type V = B3U0G1 (50w only)
Color temperature: 3,000K

Type II Type III Type V
light distribution patterns

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Fiberglass	25', 30', 35'	Gray	Black (additional cost)
Wood	25', 30', 35'	Standard
Metal (Special conditions)	25', 30', 35'	Galvanized

FEATURES	BENEFITS
Turnkey operation	Provides hassle-free installation and service
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

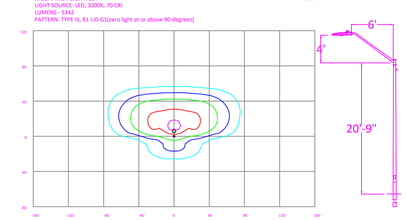
For additional information, contact us at **ODLCarolinas@duke-energy.com.**

DUKE ENERGY. PROGRESS
BUILDING A SMARTER ENERGY FUTURE ®

ISOFOOTCANDLE CURVES

FIXTURE: LED 50W ROADWAY
MOUNTING HEIGHT: 25 FT
LIGHT SOURCE: LED, 3000K, 70 CRI
LUMENS: - 5342
PATTERN: TYPE III, B1-U0-G1(zero light at or above 90 degrees)

ASSY# LFIX-RW-LED-50-GRAY-III-3000K-____P
POLE ASSY# LPOLE-DB-FG-25FT-GRAY-____P (GRAY)



LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	A	71	LED 50w Roadway - Type III - 3000K	1	5312	0.85

NO.	DATE	REVISION	BY

LIGHTING DESIGN TOLERANCE

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DUKE ENERGY® PROGRESS

PROPRIETARY & CONFIDENTIAL

MERRITT SUBDIVISION
ROLESVILLE, NC
STREET LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by A. Herrera Scale 1" = 100'
Date 4/16/2025 Size Drawing size "D"
Description LED Roadway
Drawing No. 25-0160 Sht. 3 OF 3