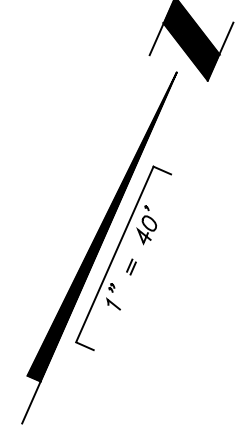
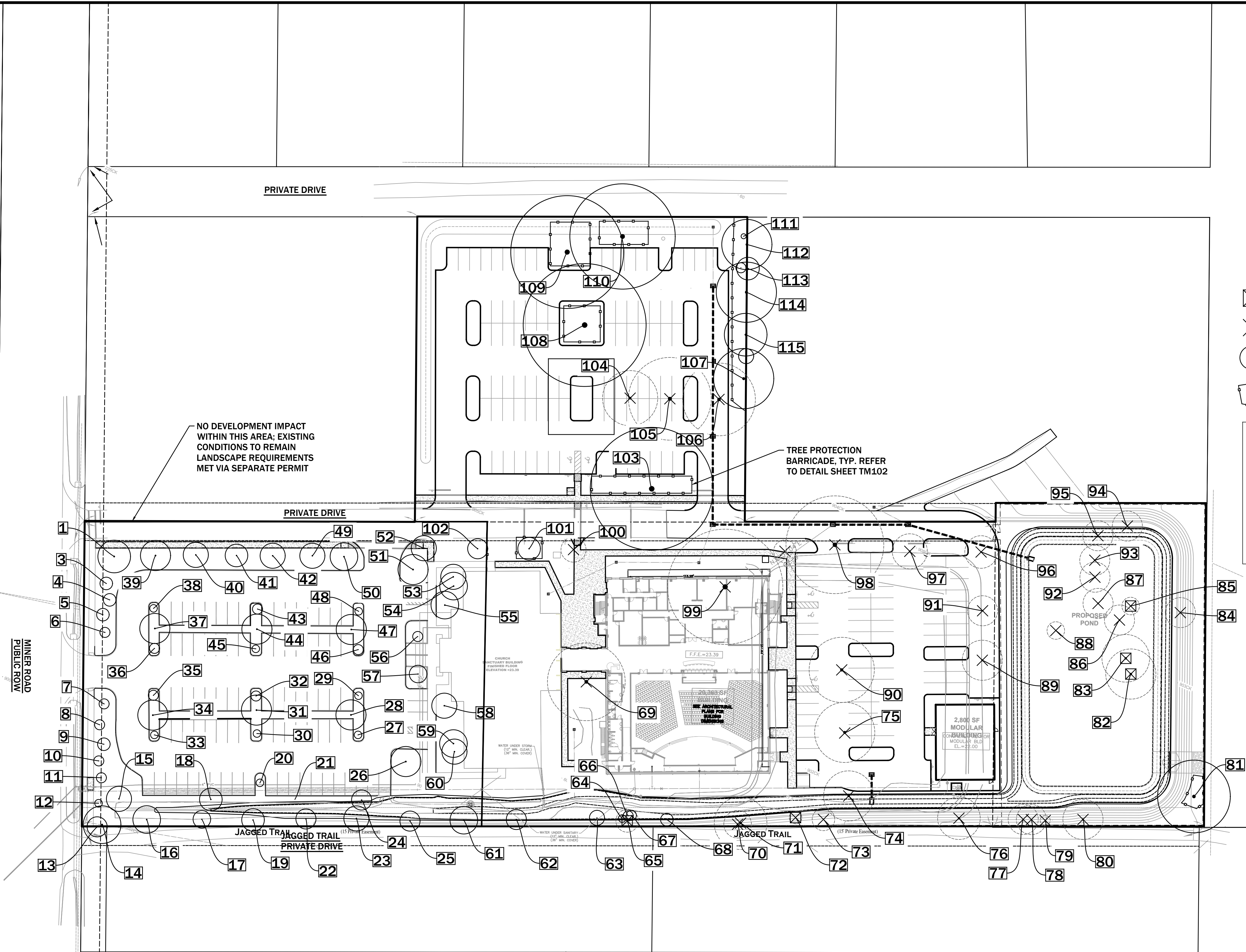


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- = Existing non-protected tree to be removed
- = Existing protected tree to be removed
- = Existing tree preserved for credit
- = Tree barricade or silt fence

Install tree protection barricade according to the detail in these plans and prior to site clearing and construction activity. Leave barricade intact and in place during construction and remove only when irrigation and landscape plans are ready for installation. Silt fence may be used for tree protection when located at the Limits of Disturbance.

**Connelly & Wicker Inc.**  
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(904) 256-3030 FAX: (904) 265-3031 www.cweng.com  
Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision	By
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## TREE REMOVAL AND PROTECTION PLAN

MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

ALFRED B. PITTMAN, M.L.A., R.L.A.  
LA 1601  
Reg. Landscape Architect

Project No.: 20-01-0065	Drawn: ABP
Designed: ABP	O.C.: RCW
Checked: JEW	
Date: JULY 2024	
Scale: 1" = 40'	

Sheet L1

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\_\_\_\_\_

Calculations based on current Nassau County LDC

Tree No. (See Plan)	Tree Size (Inches DBH)	Common Name (Botanical Name)	Condition	Recommended Action	Protected Status by Ordinance (Y or N)
70	1	Oak (Quercus spp.)	Not evaluated	Remove for construction	No
71	21	Oak (Quercus spp.)	Not evaluated	Remove for construction	Yes
72	5	Oak (Quercus spp.)	Not evaluated	Remove for construction	No
73	9	Oak (Quercus spp.)	Not evaluated	Remove for construction	Yes
74	20	Pecan (Carya illinoensis)	Not evaluated	Remove for construction	Yes
75	25	Pecan (Carya illinoensis)	Not evaluated	Remove for construction	Yes
76	17	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
77	12	Oak (Quercus spp.)	Not evaluated	Remove for construction	Yes
78	12	Oak (Quercus spp.)	Not evaluated	Remove for construction	Yes
79	4	Oak (Quercus spp.)	Not evaluated	Remove for construction	No
80	16	Oak (Quercus spp.)	Not evaluated	Remove for construction	Yes
81	30	Pine (pinus spp.)	Not evaluated	Preserve	Yes
82	20	Chinaberry (Melia azederach)	Not evaluated	Remove for construction	No
83	19	Chinaberry (Melia azederach)	Not evaluated	Remove for construction	No
84	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
85	7	Chinaberry (Melia azederach)	Not evaluated	Remove for construction	No
86	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
87	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
88	7	Maple (Acer spp.)	Not evaluated	Remove for construction	Yes
89	16	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
90	27	Pecan (Carya illinoensis)	Not evaluated	Remove for construction	Yes
91	12	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
92	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
93	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
94	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
95	12	Crape myrtle (Lagerstroemia indica)	Not evaluated	Remove for construction	Yes
96	13	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
97	14	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
98	39	Pecan (Carya illinoensis)	Not evaluated	Remove for construction	Yes
99	46	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
100	10	Live oak (Quercus virginiana)	Not evaluated	Remove for construction	Yes
101	9	Live oak (Quercus virginiana)	Not evaluated	Preserve	Yes
102	8	Live oak (Quercus virginiana)	Not evaluated	Preserve	Yes
103	49	Live oak (Quercus virginiana)	Not evaluated	Preserve	Yes
104	22	Cedar (Juniper spp.)	Not evaluated	Remove for construction	Yes
105	34	Cedar (Juniper spp.)	Not evaluated	Remove for construction	Yes
106	30	Cedar (Juniper spp.)	Not evaluated	Remove for construction	Yes
107	24	Cedar (Juniper spp.)	Not evaluated	Preserve	Yes
108	49	Live oak (Quercus virginiana)	Not evaluated	Preserve	Yes
109	45	Live oak (Quercus virginiana)	Not evaluated	Preserve	Yes
110	42	Oak (Quercus spp.)	Not evaluated	Preserve	Yes
111	2	Oak (Quercus spp.)	Not evaluated	Preserve	No
112	20	Cedar (Juniper spp.)	Not evaluated	Preserve	Yes
113	9	Oak (Quercus spp.)	Not evaluated	Preserve	Yes
114	24	Cedar (Juniper spp.)	Not evaluated	Preserve	Yes
115	17	Cedar (Juniper spp.)	Not evaluated	Preserve	Yes



- TREE PROTECTION BARRICADE. 4' MIN. HEIGHT CHAIN LINK FENCING, STEEL POSTS INSTALLED AT 8' O.C.
- 2" X 6" STEEL POSTS OR APPROVED EQUAL.
- 5" THICK LAYER OF SPECIFIED MULCH
- MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION BARRICADE UNLESS OTHERWISE INDICATED ON THE PLANS.

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No.	Date	Revision
By		

MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

Project No.: <b>20-01-0065</b>	
Designed: <b>ABP</b>	Drawn: <b>ABP</b>
Checked: <b>JEW</b>	O.C.: <b>RCW</b>
Date: <b>JULY 2024</b>	
Scale:	

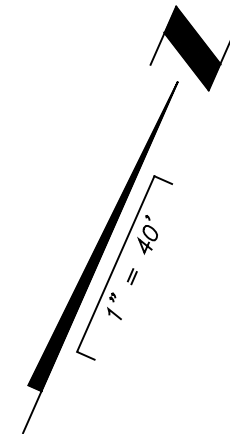
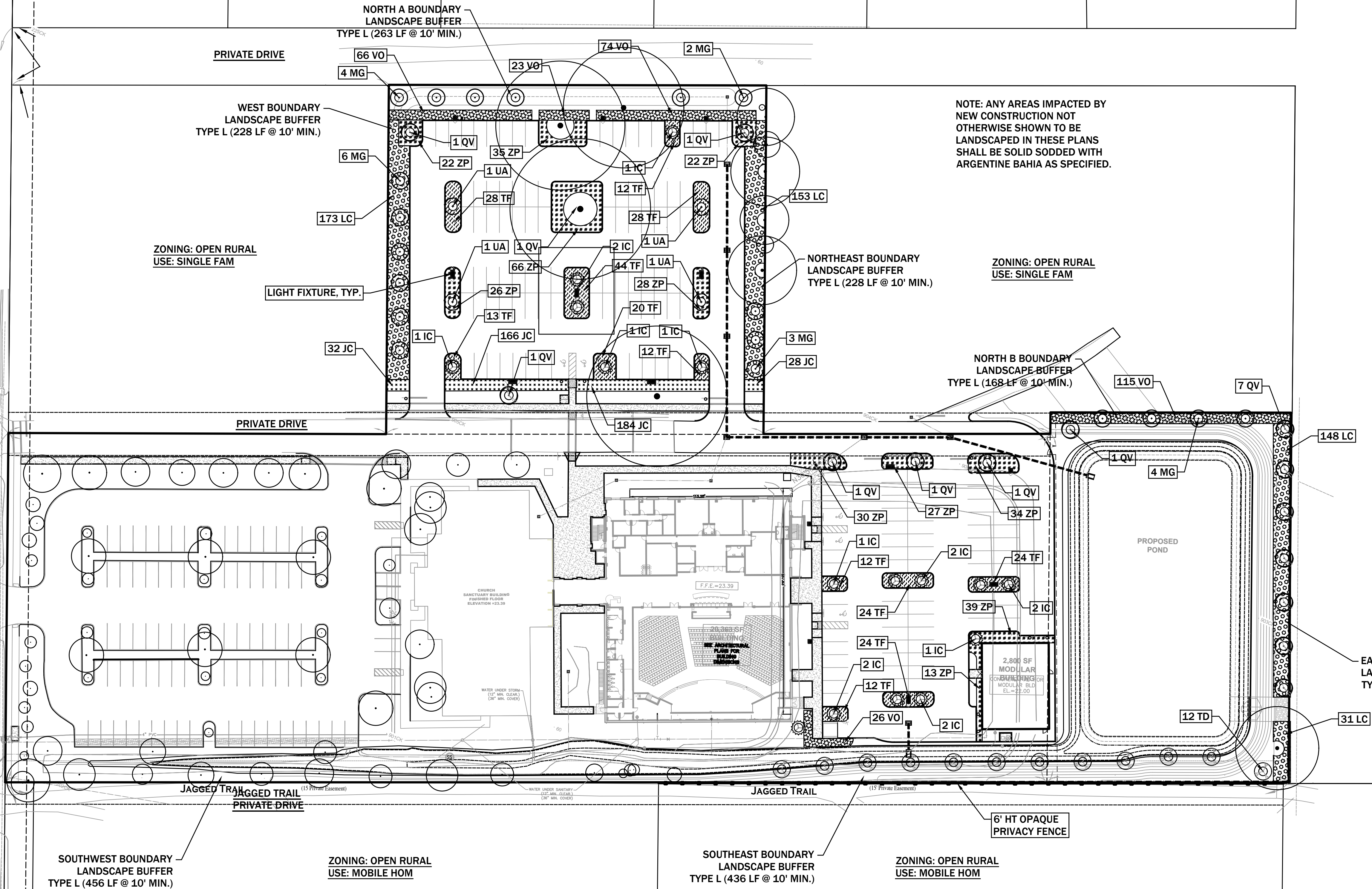
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MINER ROAD  
PUBLIC ROW



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No.	Date	Revision	By
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LANDSCAPE PLAN

MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

ALFRED B. PITTMAN, M.L.A., R.L.A.  
LA 1601  
Reg. Landscape Architect

Project No.: 20-01-0065	Designed: ABP	Drawn: ABP
Checked: JEW	O.C.: RCW	
Date: JULY 2024		
Scale: 1" = 40'		

Sheet L3

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- ## TREE AND EXISTING VEGETATION PROTECTION

- ## PLANT INSTALLATION

- ## SOILS

- Sheet L4



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MINER ROAD  
PUBLIC ROW

PRIVATE DRIVE

PRIVATE DRIVE

JAGGED TRAIL  
PRIVATE DRIVE  
(15' Private Easement)

JAGGED TRAIL  
(15' Private Easement)

CHURCH  
SANCTUARY BUILDING  
FINISHED FLOOR  
ELEVATION +0.35

WATER UNDER STORM  
(15' MIN. CLEAR)  
(15' MIN. COVER)

WATER UNDER STORM  
(15' MIN. CLEAR)  
(15' MIN. COVER)

F.F.E. = 23.39

2,800 SF  
MODULAR  
BUILDING FOR  
BIBLE STUDY

2,800 SF  
MODULAR  
BUILDING FOR  
BIBLE STUDY

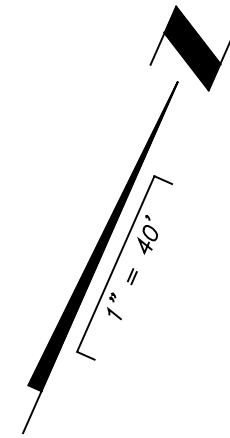
PROPOSED  
POND

#### IRRIGATION ZONES

- HIGH USE ZONE
- MEDIUM USE ZONE
- LOW USE ZONE

ALL NEW TREES TO BE IRRIGATED  
WITH DEDICATED BUBBLERS.

BAHIA-SODDED AREAS ARE TO BE  
TREATED AS LOW-USE, ALL OTHER  
SOD TYPES SHALL BE TREATED AS  
HIGH-USE.



MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

ALFRED B. PITTMAN, M.L.A., R.L.A.  
LA 1601  
Reg. Landscape Architect

Project No.:  
20-01-0065

Designed:  
ABP

Checked:  
JEW

Date:  
JULY 2024

Scale:  
1" = 40'

Drawn:  
ABP

O.C.:  
RCW

Sheet  
L5

#### IRRIGATION USE-ZONE PLAN

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IRRIGATION SPECIFICATIONS

IRRIGATION INSTALLATION

1.

Contractor shall provide a fully automated irrigation system to ensure 100% head-to-head coverage of all landscaped areas within the project area.
2.

Irrigation source shall be 2.2 below.
- 2.1.

Retention pond
- 2.2.

Municipal potable source with irrigation meter
- 2.3.

Municipal re-use source
- 2.4.

New shallow/groundwater well
- 2.5.

Existing shallow/groundwater well
- 2.6.

New deep/artesian/aquafer well
- 2.7.

Existing deep/artesian/aquafer well
3.

Upon completion, contractor shall submit a scaled, clear and legible as-built plan of the installed irrigation system showing location of all components and sleeves to the owner (and municipal authority if required).
4.

Contractor shall provide a reduced-pressure backflow preventer, mounted in a rectangular valve box on the serving side and adjacent to the meter, and shall provide freeze protection.
5.

All pipe and wire under paving shall be placed in Schedule 40 PVC sleeves from the full pavement coverage length and shall be at least 24" below finished grade.
6.

Main lines shall be installed at least 18" below finished grade and lateral lines shall be installed at least 12" below finished grade.
7.

Contractor shall reroute piping to avoid existing plants and tree roots and hand-dig pipes under or through tree roots within the canopy area of existing trees that cannot be avoided. Mechanical trenching through tree roots within the canopy area of preserved trees shall not be permitted.
8.

Contractor shall be responsible for all applicable permits and fees.
9.

Contractor shall comply with all state and local codes and shall clarify any discrepancies on the plan prior to bidding.
10.

Prior to final acceptance, contractor shall show owner or maintenance superintendent how to operate and maintain the system.
11.

Contractor shall furnish all warranty, maintenance equipment, and operating instructions.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
LAWN AND IRRIGATION RULE:

Irrigation of new landscape is allowed at any time of day on any day for the initial 30 days following installation, and every other day for the next 30 days, for a total of one 60-day period, provided the irrigation is limited to the minimum amount necessary for establishment.

IRRIGATION SPECIFICATIONS

MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

ALFRED B. PITTMAN, M.L.A., R.L.A.  
LA 1601  
Reg. Landscape Architect

Project No.: 20-01-0065	
Designed: ABP	Drawn: ABP
Checked: JEW	O.C.: RCW
Date: JULY 2024	
Scale:	

Sheet L6

CW

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1.

LDC Section 37.05 (B) – Plant material. All installed trees, shrubs and groundcovers shall conform to the standards for Florida Grade #1 or better according to the current edition of "Grades and Standards for Nursery plants" published by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
2.

LDC Section 37.05 (B)(1) – All trees shall be planted in a minimum dimension of ten (10) feet. This minimum planting area must be free of all pavement and vehicle overhang in order to prevent possible tree damage.
3.

LDC Section 37.05 (B)(2) – Shrubs shall have a minimum height of eighteen (18) inches when planted. When planted as a hedge, the maximum spacing is 30 inches on center. All shrubs used for visual screening shall be of a plant species that is capable of reaching a height of four (4) feet within twenty-four (24) months under normal growing conditions. Shrubs used as accent ground cover and vines may vary in size depending on the type of plant material and the desired effect.
4.

LDC Section 37.05 (B)(3) – Groundcovers shall be planted in such manner as to present a finished appearance and complete coverage within one (1) year after planting.
5.

LDC Section 37.05 (B) – All trees planted shall be staked or guyed for a period of at least six (6) months in accordance with the adopted planting detail.
6.

LDC Section 37.05 (H)(4) – All planting areas shall be mulched with approximately three inches of organic mulch, such as pine bark or shredded hardwood chips.
7.

LDC Section 37.05 (K) – The property owner is responsible for the maintenance of all landscape areas required by this section. Maintenance includes irrigating, mowing, trimming, fertilizing and carrying out those activities necessary to keep the plant material in a healthy and growing condition, maintain visual clearance and allow passage of vehicles and pedestrians on public roads and non-exclusive easements.
8.

LDC Section 37.05 (K)(1) – Upon determination by the county that a required tree or plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the owner with plant material meeting the requirements of this section.
9.

LDC Section 37.05 (K)(2) – All buffer areas required as part of a development plan, whether in common or private ownership, shall be the responsibility of that development's property owners' association. Where there is no property owners' association, such landscaped areas shall be the responsibility of the property owner.
10.

LDC Section 37.05 (K)(3) – Trees on developed properties may be pruned to maintain shape and promote their shade-giving qualities. They should be pruned to remove diseased or dying portions in areas where falling limbs could be a hazard to people or property. Lower limbs may be removed to provide clearance. In addition, trees located in association with vehicular use areas shall also be pruned to allow a seven-foot clearance from ground level to avoid potential for damage or injury to pedestrians and cleared to thirteen (13) above pavement level for vehicles. However, the excessive pruning or pollarding of trees into round balls of crown or branches resulting in an unnecessary reduction of shade is prohibited and may require supplemental plantings.

All pruning shall be done following the American National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant Maintenance - Standard Practices."

11.

LDC Section 37.05 (E)(1) – At the intersection of two (2) streets, all landscaping within that area defined by the Florida Department of Transportation sight triangle, as outlined in the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System shall be installed and maintained below three (3) feet in height or above eight (8) feet in height.
12.

LDC Section 37.05 (E)(2) – When a driveway intersects a right-of-way, clear unobstructed cross visibility shall be provided within the site triangle formed by such intersection. The sight triangle shall be measured from the point of intersection, fifteen (15) feet along the access way and then fifteen (15) feet along the right-of-way, with the third side being a line connecting the two (2) points. Cross visibility within the sight triangle shall be unobstructed between the height of three (3) feet and eight (8) feet measured from the ground line. Trees and palms shall have their limbs and foliage trimmed in a manner that no limbs or foliage will extend in to the cross visibility area. To ensure proper visibility at the intersection of access ways with public rights-of-way, excluding properly trimmed trees as previously stated; only ground cover type plants shall be allowed within the sight triangle.
13.

LDC Section 37.05 (D) – The use of a wall or fence is permitted provided the wall or fence is located on the inner most boundary (behind the vegetation as viewed from outside the development) of the perimeter landscaping adjacent to rights-of-way/streets, required uncomplimentary land use buffer or other landscaped area.

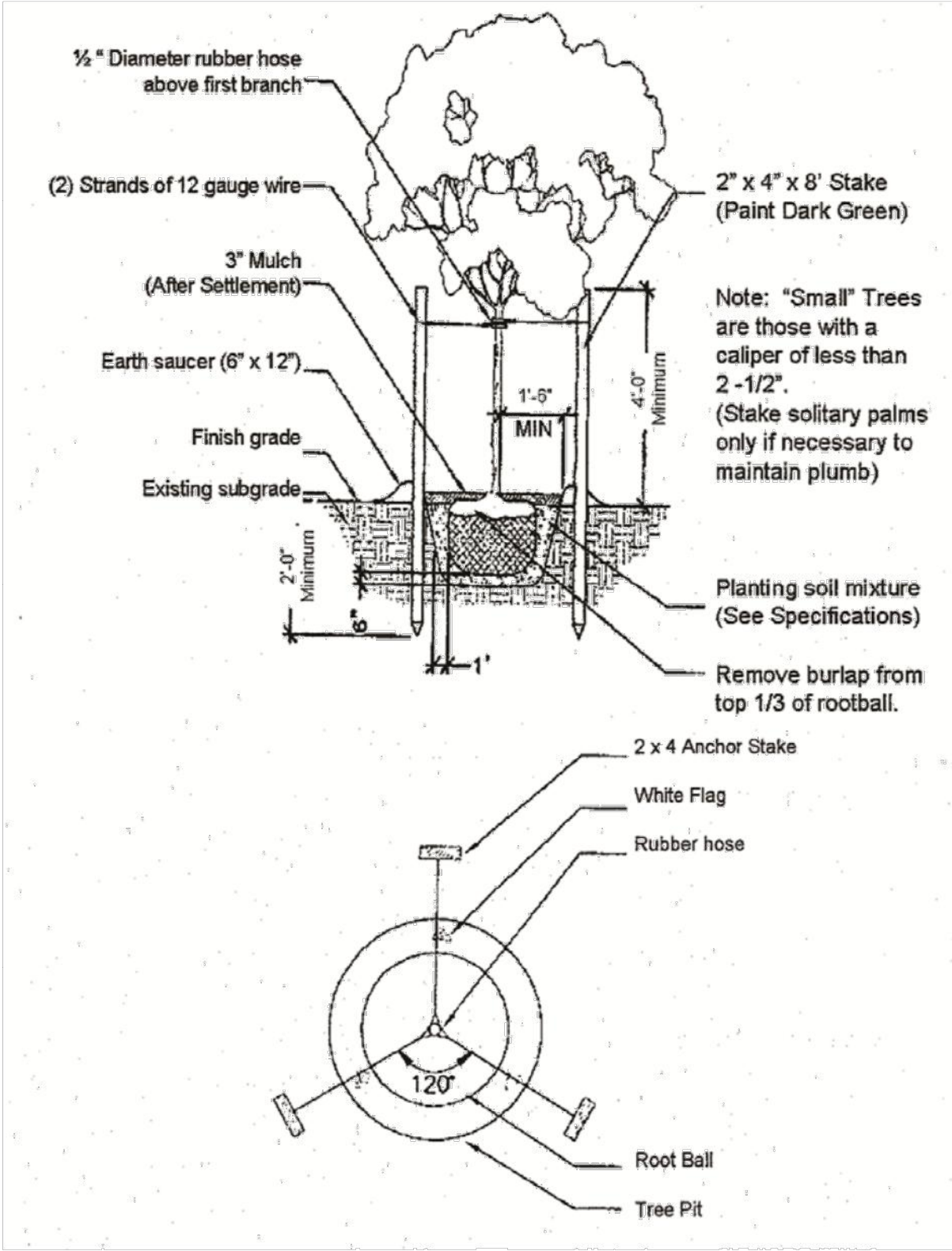


FIGURE 1: STANDARD PLANTING DETAIL

NASSAU COUNTY PLANNING DEPARTMENT	REVISION DATES		REQUIRED LANDSCAPE NOTES	NOTE SHEET:	
				DWG:	
				ISSUED: 10/13/2023	

CON

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Engineering

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C.A. Number: 3650 L.A. Number: LC26000311

No.	Date	Revision	By

LANDSCAPE NOTES

MERCY HILL CHURCH  
EXPANSION  
NASSAU COUNTY, FL  
PREPARED FOR  
MERCY HILL CHURCH

AUTUMN HUBSCH  
PE NO. 72939  
Reg. Engineer

Project No.: 20-01-0065  
Designed: AMH  
Checked: JEW  
Date: March 29, 2024  
Scale: 1" = 1'

Sheet L6