



Existing View to Front



Existing View to Garage & Drive



Existing View to Courtyard



Existing View to Pool



Existing View to Patio



Existing View to West Yard

ENVIRONMENT
DESIGN
GROUP

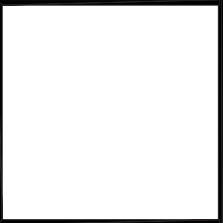
139 North County Road 5420-B Palm Beach, FL 33480
Phone: 561.832.4600 Mobile: 561.313.4424

Landscape Architecture
Land Planning
Landscape Management

Dustin M. Mizell, M.L.A. P.L.A. #6666784
dustin@environmentdesigngroup.com

Private Residence
223 Colonial Ln
Palm Beach

A
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R
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L
F



JOB NUMBER: # xxxxx.00 LA
DRAWN BY: Lauren Freeman
DATE: 07.13.2023
07.31.2023
08.10.2023
08.28.2023

SHEET L1.0

2023

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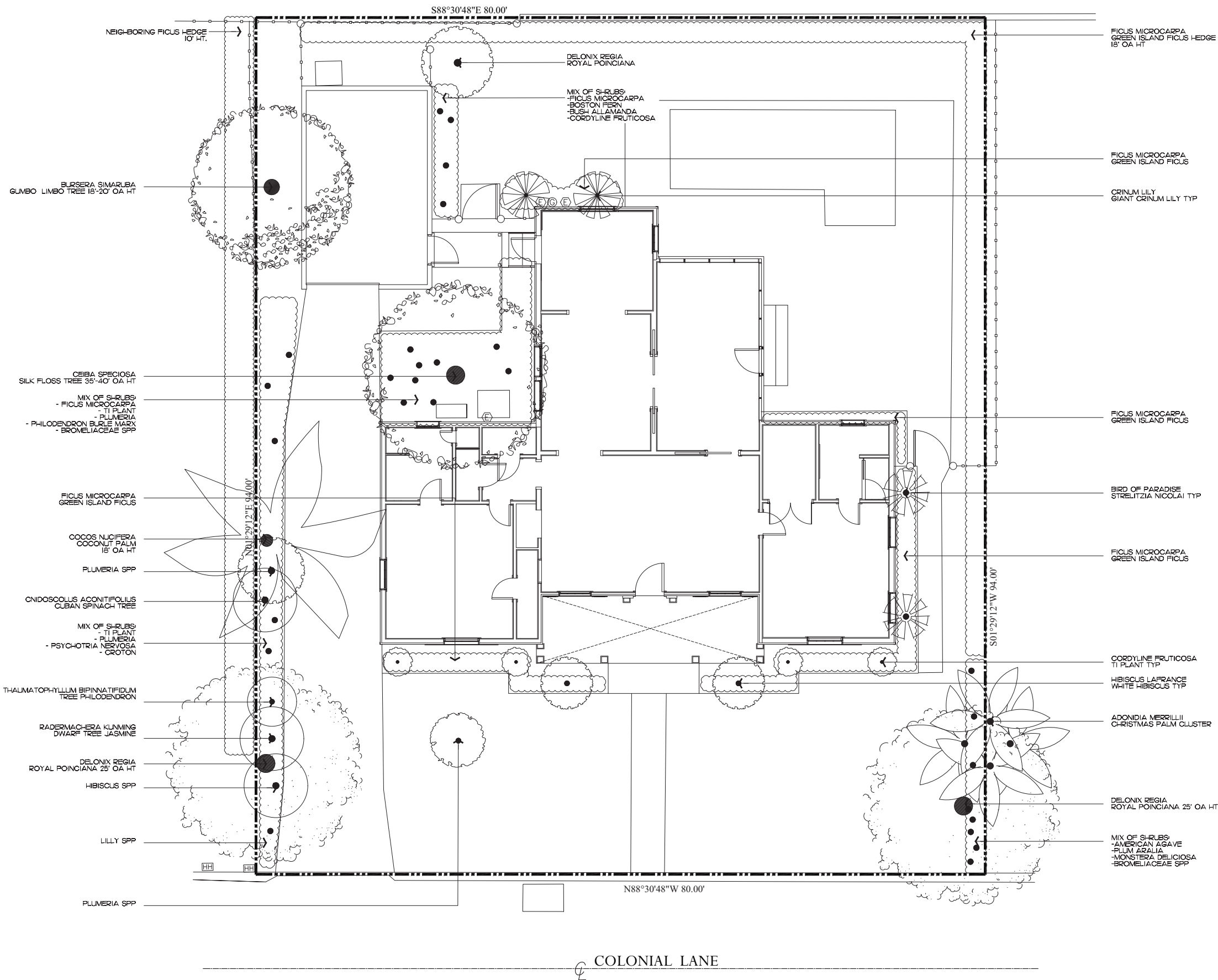
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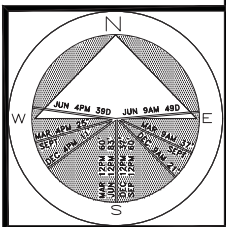
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COA-23-031
ZON-23-068

Existing Site Photos



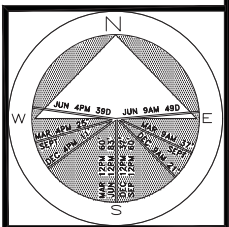
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SHEET L2.0

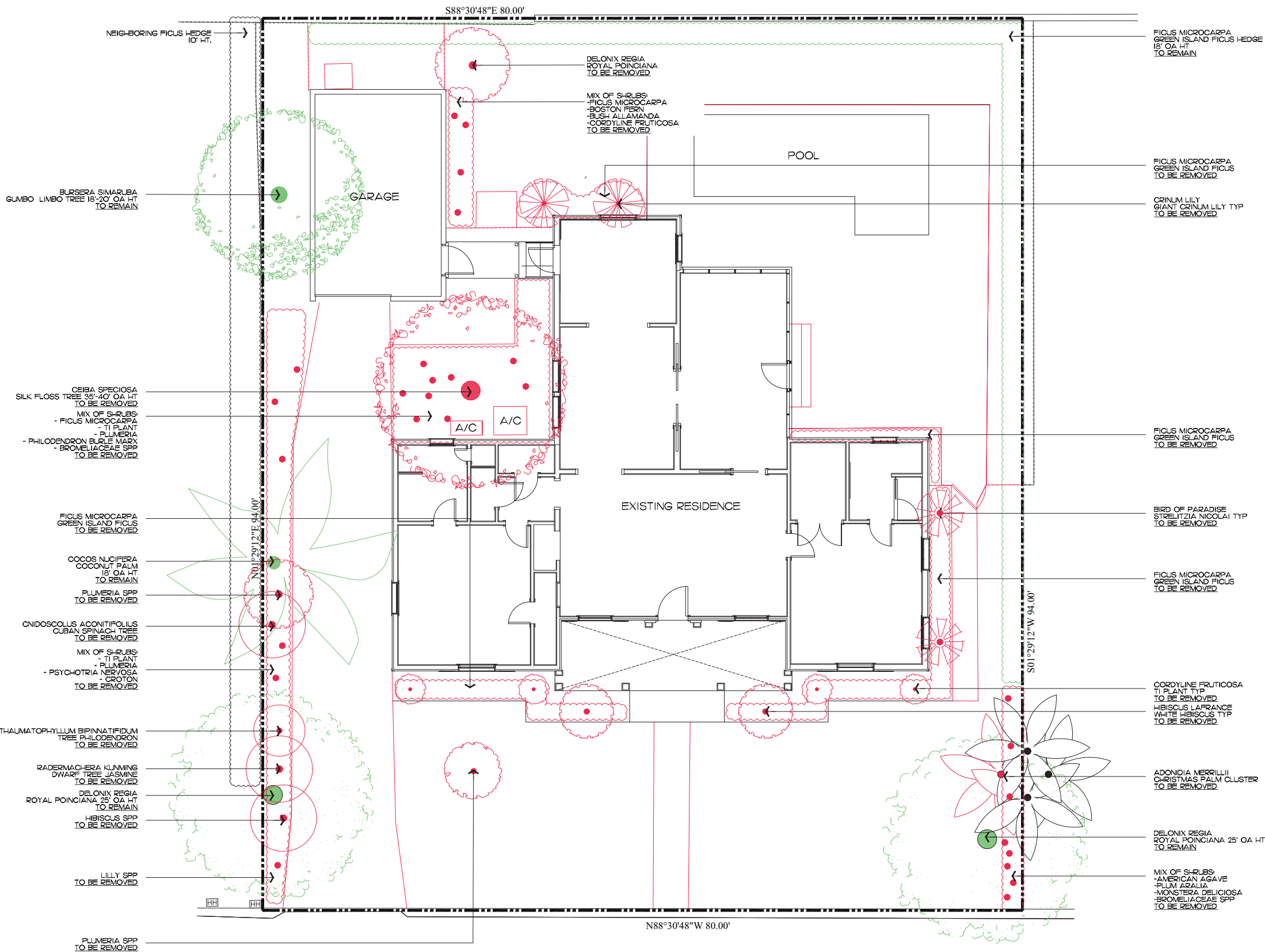
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SHEET L3.0

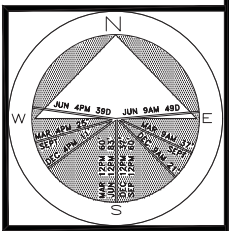
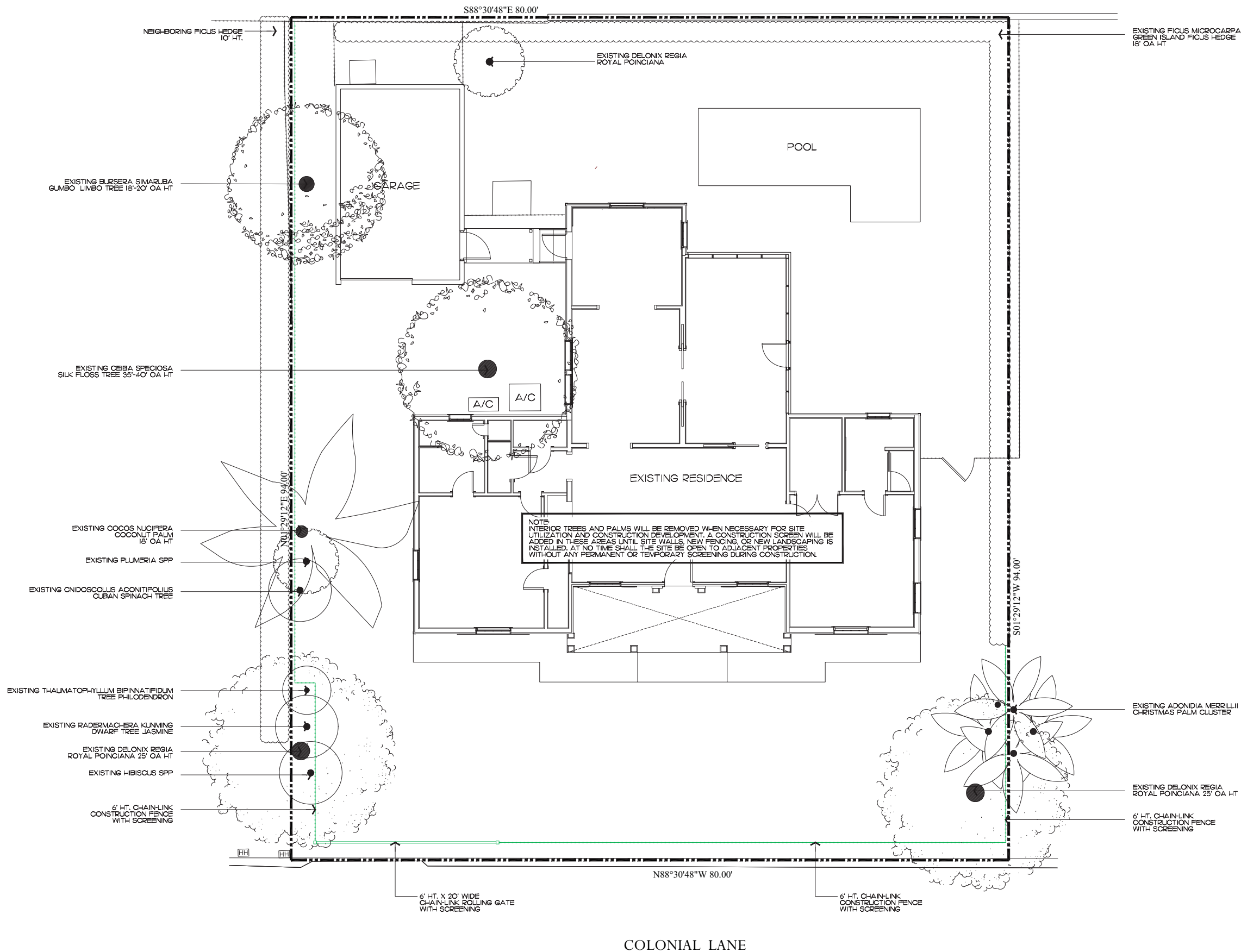


COLONIAL LANE

Demolition and Vegetation Action Plan

SCALE 3/16" = 1'

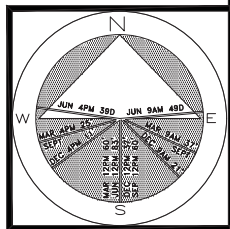
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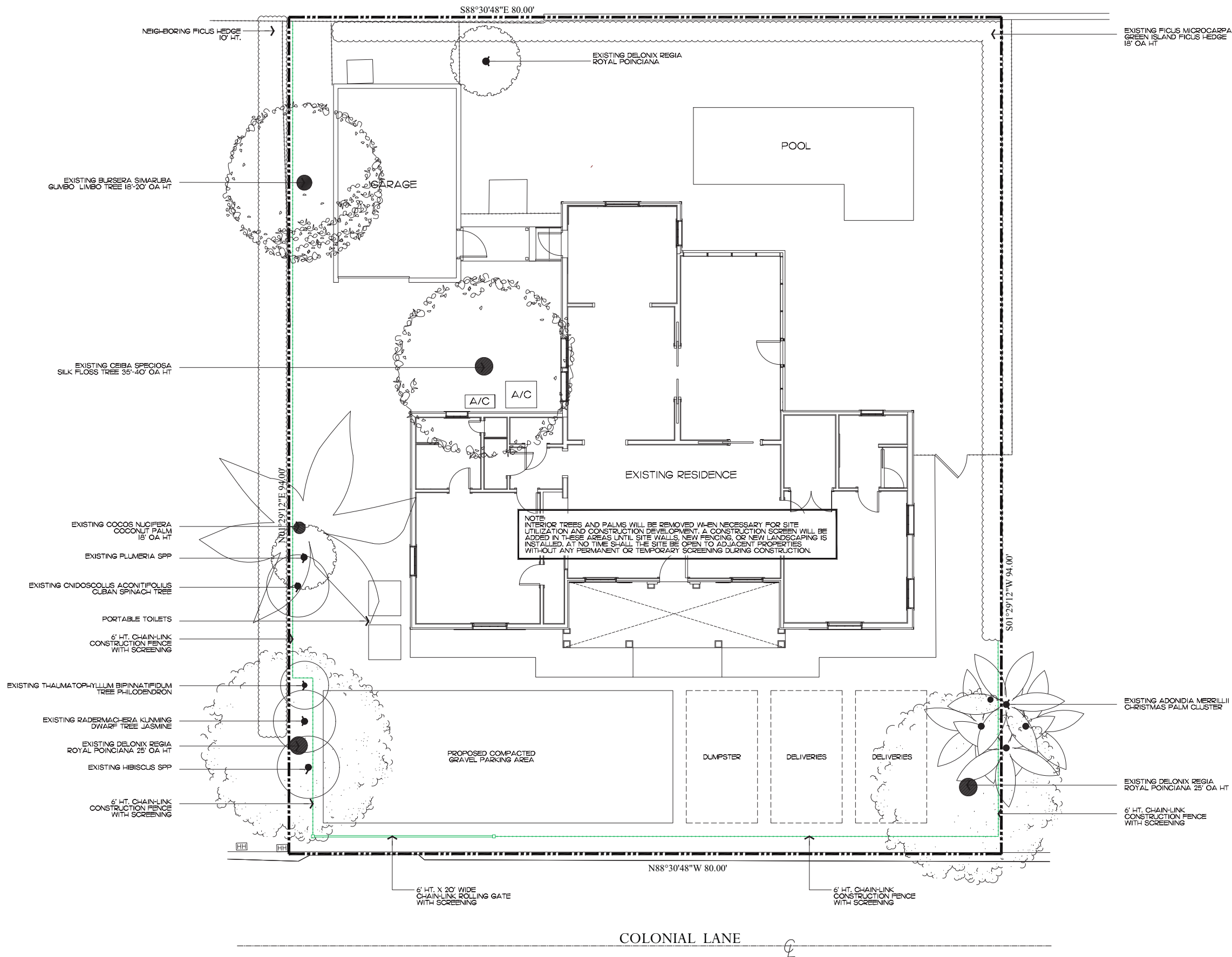
SHEET L4.0

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Palm Beach



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SHEET L5.0

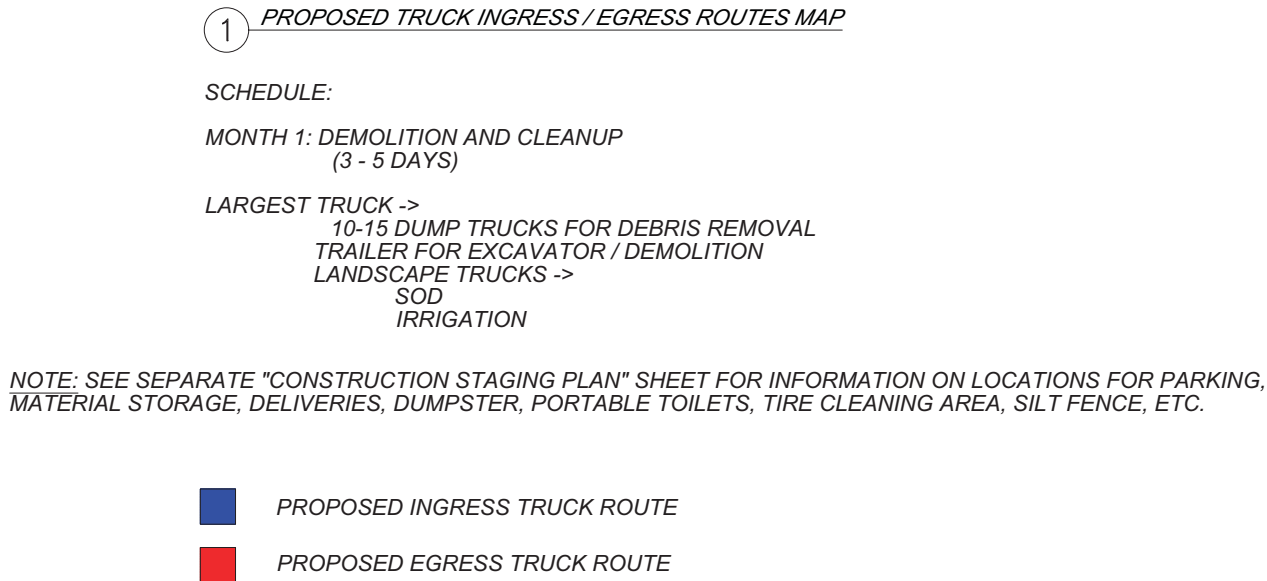


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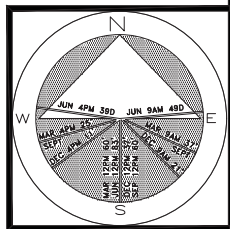
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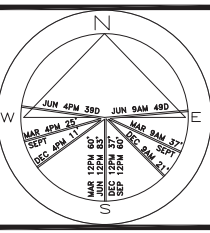
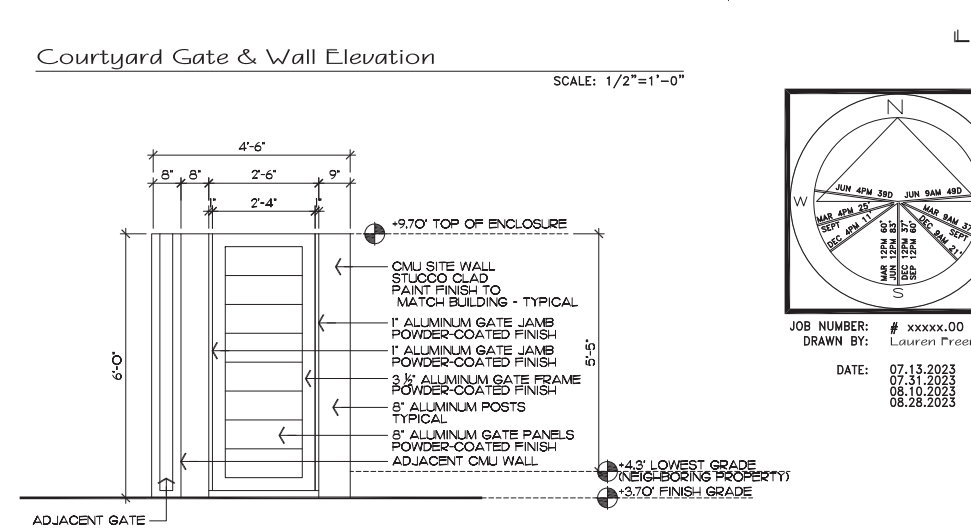
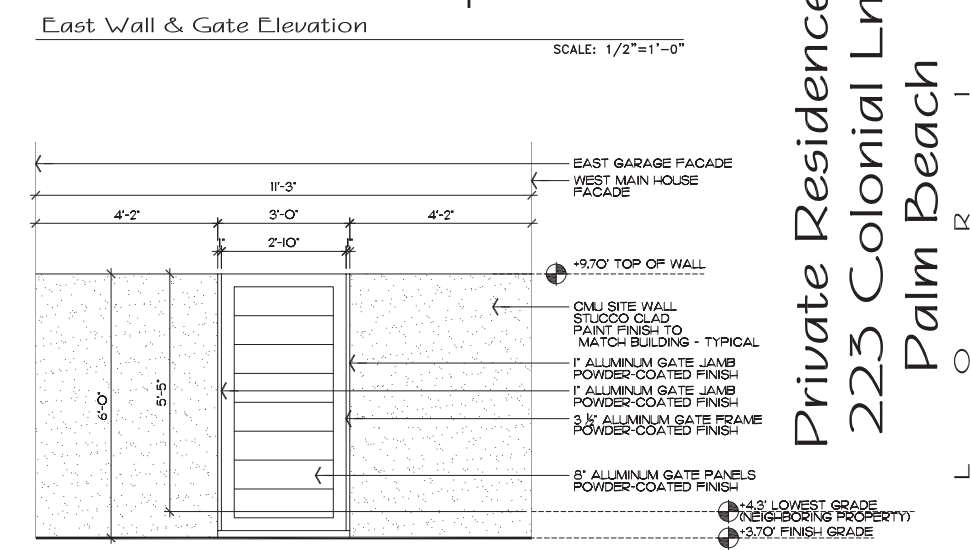
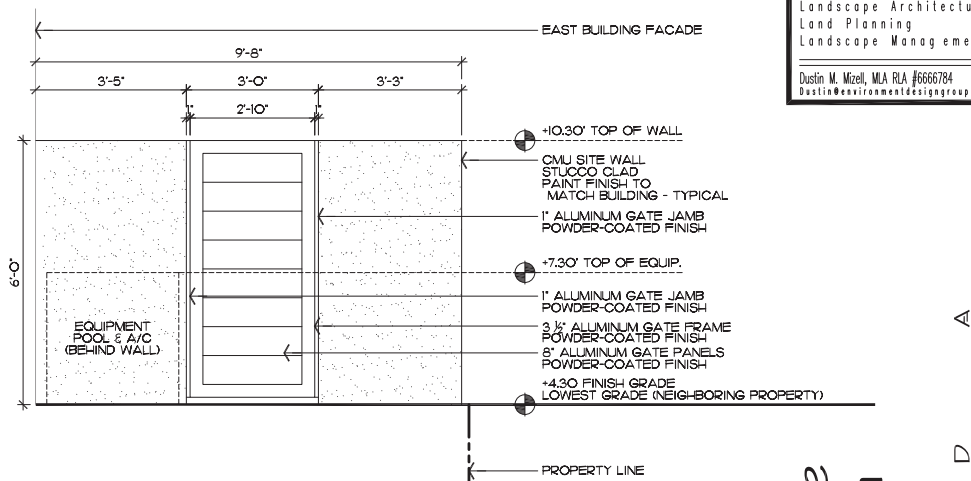
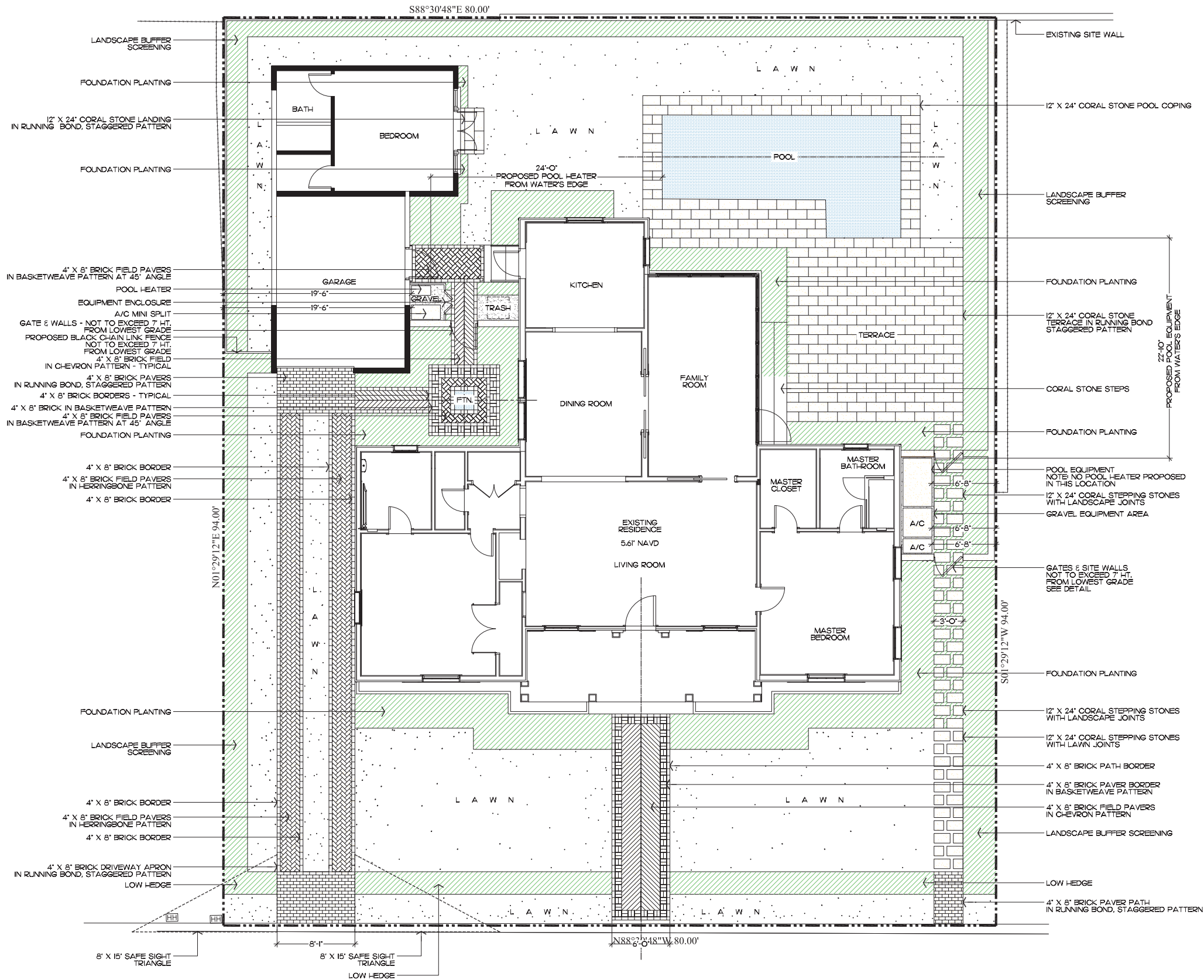
COA-23-031
ZON-23-068
Construction Staging Plan
SCALE 3/16" = 1'



CONCEPTUAL CONSTRUCTION SCHEDULE	
•	OCTOBER 11, 2023 – TOWN COUNCIL MEETING
•	<u>SEPT–OCT 2023 – SUBMIT FOR PERMIT</u>
•	1 MONTH –NOV 2023 – MOBILIZATION & DEMOLITION
•	1–2 MONTHS – SITE/BUILDING PREPARATION
•	4 MONTHS – FRONT FACADE IMPROVEMENTS
•	1–2 MONTHS – FINISHES
•	2 MONTHS – LANDSCAPE & HARDSCAPE INSTALLATION
•	<u>1–2 MONTHS – FINAL INSPECTIONS</u>
•	+ /–10 MONTHS – PROPOSED TOTAL CONSTRUCTION FOLLOWING BUILDING PERMIT



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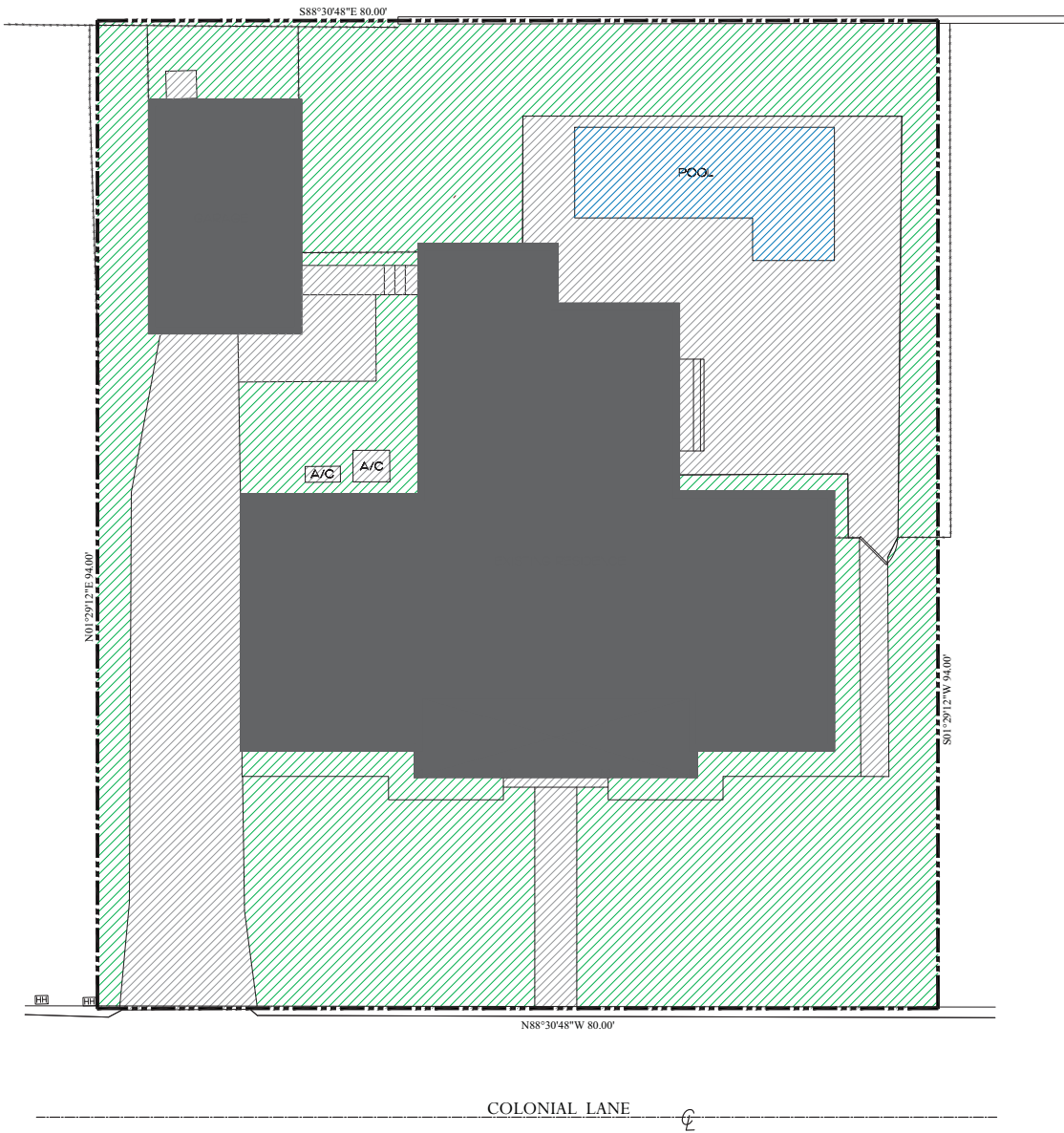
COLONIAL LANE

COA-23-031
 ZON-23-089
Site Plan
 SCALE 3/16" = 1'

SHEET L7.0

Legend

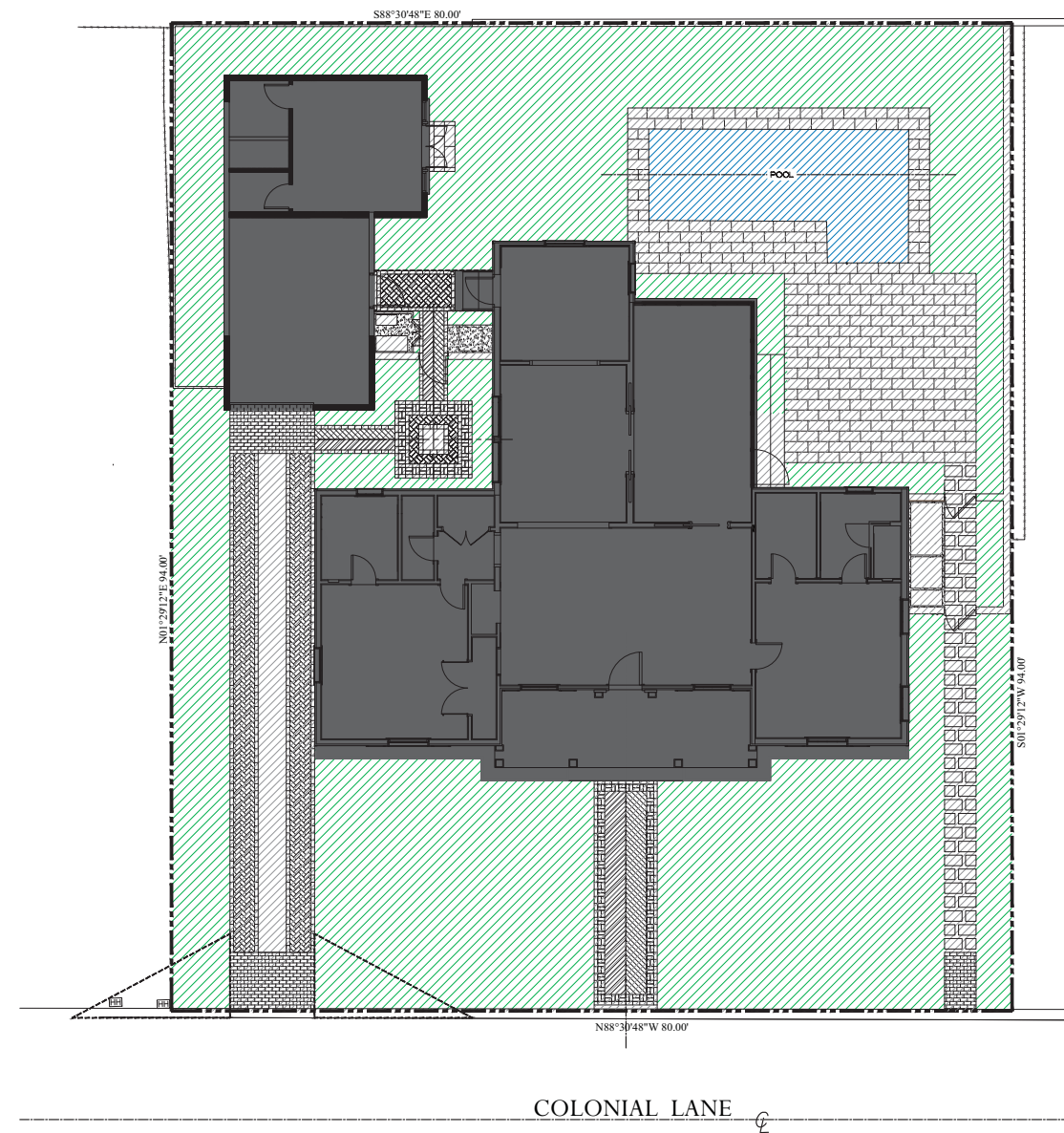
- IMPERVIOUS AREA (HOUSE/STRUCTURE)
- IMPERVIOUS AREA (HARDSCAPE)
- PERVIOUS AREA / OPEN SPACE
- IMPERVIOUS AREA / WATER FEATURE



Existing Site Plan

Existing Site Data

DESCRIPTION	REQUIRED		EXISTING	
LOT ZONE			R-B - LOW DENSITY RESIDENTIAL	
LOT AREA	10,000 S.F. MINIMUM		7,519 S.F.	
OPEN / PERMEABLE SPACE	MINIMUM 45%	3,383 S.F.	43.4%	3,260 S.F.
FRONT YARD LANDSCAPE	MINIMUM 40% OF FRONT YARD	800 S.F.	76.25%	1,525 S.F.
PERIMETER LANDSCAPE WITHIN 10' OF PROPERTY LINE	MINIMUM 50% OF REQ'D OPEN SPACE	1,691 S.F.	67.9%	2,092 S.F.



Proposed Site Plan

Proposed Site Data

DESCRIPTION	REQUIRED		PROPOSED	
LOT ZONE			R-B - LOW DENSITY RESIDENTIAL	
LOT AREA	10,000 S.F. MINIMUM		7,519 S.F.	
OPEN / PERMEABLE SPACE	MINIMUM 45%	3,383 S.F.	45.1%	3,388 S.F.
FRONT YARD LANDSCAPE	MINIMUM 40% OF FRONT YARD	800 S.F.	79.4%	1,588 S.F.
PERIMETER LANDSCAPE WITHIN 10' OF PROPERTY LINE	MINIMUM 50% OF REQ'D OPEN SPACE	1,691 S.F.	67.98%	2,300 S.F.

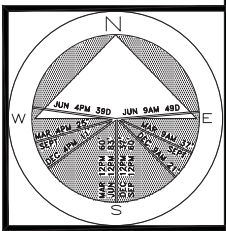
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Palm Beach



JOB NUMBER: # xxxxx.00 LA
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07.31.2023
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SHEET L7.1

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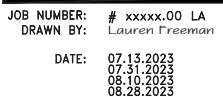
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Site Calculation/Open Space Graphics

SCALE 1/8" = 1'



SHEET L8.0

Landscape Plan

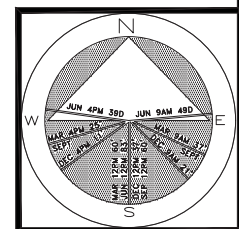
SCALE 3/16" = 1'



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SHEET L8.1



COLONIAL LANE



Rendered Landscape Plan
SCALE 3/16" = 1'








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

Trees

SYMBOL	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	CAESALPINIA GRANADILLO BRIDAL VEIL TREE	1	10' HT.	NO
	CONOCARPUS ERECTUS GREEN BUTTONWOOD	3	8' HT.	YES
	EUGENIA FOETIDA SPANISH STOPPER	3	10' HT.	YES
	FORESTIERA SEGREGATA FLORIDA PRIVET	3	6' HT.	YES
	GUAIACUM OFFICINALE LIGNUM VITAE	1	12'-14' HT.	YES
	MYRSINE CUBANA MYRSINE	5	6'-8' HT.	YES
	TABEBUIA CARAIBA TABEBUIA TREE	2	14'-16' HT.	NO
TOTAL: NATIVE SPECIES:		18 15 (83.3%)		











Palms

SYMBOL	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	COCOS NUCIFERA COCONUT PALM	9	12'-16' G.W. CURVED TRUNKS	NO
	RAVENALA MADAGASCARIENSIS TRAVELERS PALM	4	8'-10' HT.	NO

Vines, & Groundcovers

SYMBOL/KEY	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	LONICERA SEMPERVIRENS CORAL HONEYSUCKLE VINE	1	10' HT., ESPALIER TO WALL	YES
	SALVIA MISELLA CREEPING SAGE GROUNDCOVER	1,180	1 GAL., 6" O.C.	YES
	TRACHELOSPERMUM JASMINOIDES CONFEDERATE JASMINE VINES	4	6' HT., ESPALIER TO WALL FULL PATTERN	NO
TOTAL: NATIVE SPECIES:		1,185 1,181 (99.7%)		

Shrubs

SYMBOL/KEY	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	ALPINIA ZERUMBET SHELL GINGER	9	7 GAL.	NO
	CLUSIA ROSEA 'NANA' DWARF CLUSIA	440	3 GAL., 12" O.C.	YES
	FICUS MICROCARPA GREEN ISLAND FICUS	46	2' HT., 24" O.C.	NO
	NEPHROLEPIS EXALTATA BOSTON FERN	80	3 GAL., 12" O.C.	NO
	PHILODENDRON GIGANTEUM GIANT PHILODENDRON	2	7 GAL.	NO
	PLUMBAGO ZEYLANICA WHITE PLUMBAGO	30	3 GAL., 12" O.C.	YES
	TABERNAEMONTANA DIVARICATA JASMINE SHRUBS	4	3' X 3'	NO
	SERENOA REPENS SILVER SAW PALMETTO	2	3' X 3'	YES
	ZAMIA INTEGRIFOLIA COONTIE	6	7 GAL.	YES
	STRELITZIA REGINAE WHITE BIRD OF PARADISE	1	15 GAL.	NO
TOTAL: NATIVE SPECIES:		620 478 (77.1%)		

Lawn & Mulch

SYMBOL/KEY	PLANT NAME	QTY.	DESCRIPTION
LAWN	DIAMOND ZOYSIA LAWN	AS NEEDED	SOD PALLETS
PLANTING BED	SHREDDED EUCALYPTUS MULCH	AS NEEDED	MULCH ALL BEDS 3" MIN. DEPTH

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Plant Schedule

2023

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Nephrolepis exaltata
BOSTON FERN



Zamia integrifolia
COONTIE



Lonicera sempervirens
CORAL HONEYSUCKLE VINE



Trachelospermum jasminoides
CONFEDERATE JASMINE VINES



Caesalpinia granadillo
BRIDAL VEIL TREE



Clusia rosea 'Nana'
DWARF CLUSIA



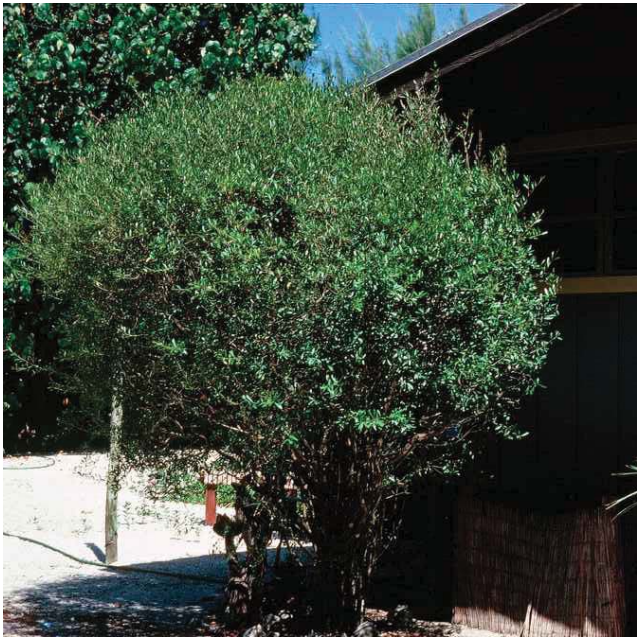
Salvia misella
CREEPING SAGE GROUNDCOVER



Ravenala Madagascariensis
TRAVELERS PALM



Philodendron giganteum
GIANT PHILODENDRON



Forestiera segregata
FLORIDA PRIVET TREE



Conocarpus erectus
GREEN BUTTONWOOD TREE



Ficus microcarpa
GREEN ISLAND FICUS



Myrsine cubana
MYRSINE TREE



Cocos nucifera
COCONUT PALM



Tabernaemontana divaricata
JASMINE SHRUBS



Guaiacum officinale
LIGNUM VITAE TREE



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Plumbago zeylanica
WHITE PLUMBAGO



Serenoa repens
SILVER SAW PALMETTO



Alpinia zerumbet
SHELL GINGER



Eugenia foetida
SPANISH STOPPER



Tabebuia cariaiba
TABEBUIA TREE

Private Residence
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FL 33408

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SHEET L8.5

Planting Notes

COMMERCIAL FERTILIZER:

FERTILIZER SHALL BE COMPLETELY ORGANIC, IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED BAGS, EACH BEARING THE MANUFACTURER'S STATEMENT OF ANALYSIS, AND SHALL MEET THE FOLLOWING REQUIREMENTS:

- SIX PERCENT (6%) NITROGEN
- SIX PERCENT (6%) PHOSPHOROUS
- SIX PERCENT (6%) POTASSIUM

FERTILIZER SHALL BE APPLIED TO ALL SHRUBS (1/3 LB. PER 3 GAL. POT, 1/4 LB. PER 1 GAL. POT) AND GROUNDCOVER. THE SAME FERTILIZER MIXTURE SHALL BE USED ON SOD AT A RATE OF 15 LBS. PER 1000 SQUARE FEET. A FOURTEEN PERCENT (14%) NITROGEN, FOURTEEN PERCENT (14%) PHOSPHOROUS AND FOURTEEN PERCENT (14%) POTASSIUM IS REQUIRED ON ALL TREES AND SHRUBS OVER 5'-0" IN HEIGHT (1/2 LB. PER 5'-0" OF SPREAD). AGRIFORM TABLETS WITH TWENTY PERCENT (20%) NITROGEN, TEN PERCENT (10%) PHOSPHOROUS, FIVE PERCENT (5%) POTASSIUM IN 21 GRAM SIZES SHALL BE APPLIED ALONG WITH THE FERTILIZER PROCESS (1 WITH 1 GAL. PLANTS, 2 WITH 3 GAL. PLANTS AND 2 TABLETS PER 1" OF TREE TRUNK CALIPER). BACKFILL HALFWAY UP THE ROOT BALL. PLACE ABOUT ONE INCH (1") FROM ROOT TIPS. MAGNESIUM SULFATE SHALL BE APPLIED TO ALL PALMS AT INSTALLATION AT A RATE OF 1/2 LB. PER INCH OF TRUNK CALIPER. MANGANESE SHALL BE APPLIED AT THE SAME RATE.

MULCH:

MULCH MATERIAL SHALL BE SHREDDED CYPRESS MULCH OR APPROVED EQUAL, MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT. MULCH SHALL BE APPLIED TO A MINIMUM 3" DEPTH IN PLANTING BEDS.

SOD:

THE SOD SHALL BE FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASES OF ANY KIND, CLEAN, STRONGLY ROOTED, UNIFORMLY SIZED STRIPS, MACHINE STRIPPED NOT MORE THAN TWENTY-FOUR (24) HOURS PRIOR TO LAYING.

SUBSTITUTION:

NO SUBSTITUTION OF PLANT MATERIAL TYPES OR SIZES WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. CONTAINER GROWN MATERIAL WILL NOT BE ACCEPTED AS SUBSTITUTE FOR BID MATERIAL UNLESS PREVIOUSLY APPROVED. INTENDED SUBSTITUTIONS SHALL BE SPELLED OUT IN BID.

MEASUREMENTS:

SHADE TREES: HEIGHT SHALL BE MEASURED FROM GROUND TO THE AVERAGE BRANCH HEIGHT OF CANOPY. SPREAD SHALL BE MEASURED TO THE END OF THE BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.

SHRUBS: HEIGHT SHALL BE MEASURED FROM THE GROUND TO THE AVERAGE POINT WHERE MATURE PLANT GROWTH STOPS. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS. MEASUREMENT AREA NOT TO INCLUDE ANY TERMINAL GROWTH.

PALMS: CLEAR TRUNK (C.T.) - SHALL BE MEASURED FROM THE GROUND AT TIME OF INSTALLATION TO THE POINT WHERE THE MATURE AGED TRUNK JOINS THE IMMATURE OR GREEN PORTION OF THE TRUNK OR HEAD. OVERALL HEIGHT (O.A.) - SHALL BE MEASURED FROM THE GROUND AT THE TIME OF INSTALLATION TO THE AVERAGE FROND HEIGHT. PALMS WITH MARKED OR BURNED TRUNKS WILL NOT BE ACCEPTED.

PLANTING/ SOIL AND BACKFILL:

PLANTING SOIL FOR USE IN PREPARING BACKFILL FOR PLANT PITS SHALL BE A FERTILE, FRIABLE AND NATURAL TOPSOIL, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND SHALL BE FREE FROM HEAVY CLAY, STONES, LIME, LUMPS, SHELLS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, WEEDS, OR NOXIOUS GRASSES (SUCH AS BERBERIS OR GRASS). IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO THE PLANT GROWTH.

BACKFILL FOR SOD AREAS SHALL BE SUBJECT TO LESSER STANDARDS AT THE DISCRETION AND DECISION OF THE OWNER.

EXISTING TOPSOIL SHALL BE USED IN ALL PLANT MATERIAL PITS EXCEPT SABAL PALMS WHERE THE SOIL SHALL CONSIST OF CLEAN SAND.

PLANTING SOIL FOR USE IN BEDS FOR ANNUALS AND/OR PERENNIALS SHALL CONTAIN ONE-THIRD (1/3) POTTING SOIL OR A BLENDED TOPSOIL, TILL INTO TOP 10" - 12" OF SOIL WITH A TIME-RELEASE FERTILIZER.

PLANT MATERIALS:

PALMS, TREES, SHRUBS, GROUNDCOVERS AND VINES

PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO "STANDARDIZED PLANT NAMES", 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS PARTS I & II", LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. UNLESS SPECIFIED OTHERWISE, ALL PLANTS SHALL BE FLORIDA GRADE NUMBER 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. SPECIMEN MEANS AN EXCEPTIONALLY HEAVY, SYMMETRICAL TIGHTLY KNIT PLANT, SO TRAINED OR FAVORED IN ITS DEVELOPMENT THAT FIRST APPEARANCE IS UNQUESTIONABLE AND OUTSTANDINGLY SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND FREE OF DISEASE AND INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY AND FLORIDA NUMBER 1. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

CONTAINER GROWN STOCK:

ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS OF GOOD QUALITY AND BE IN A HEALTHY GROWING CONDITION.

- AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER.

WARRANTY:

WARRANTY PLANTS, SHRUBS AND GROUNDCOVERS FOR A PERIOD OF NINETY (90) DAYS. TREES & PALMS FOR ONE YEAR (1) AGAINST UN-HEALTHY CONDITION, EXCEPT AS MAY RESULT FROM NEGLECT BY OWNER, DAMAGE BY OTHERS, AND UNUSUAL PHENOMENA BEYOND INSTALLER'S CONTROL. REPLACE AT TIME REQUESTED BY THE OWNER OR LANDSCAPE ARCHITECT.

MAINTENANCE:

MAINTAIN LANDSCAPE WORK UNTIL THE LETTER OF SUBSTANTIAL COMPLETION BY THE GENERAL CONTRACTOR. INCLUDE WATERING, WEEDING, CULTIVATING, RESTORATION OF GRADE, MOWING AND TRIMMING GRASS, PRUNING TREES AND SHRUBS, PROTECTION FROM INSECTS AND DISEASES, FERTILIZATION AND SIMILAR OPERATIONS AS NEEDED TO ENSURE NORMAL GOOD HEALTH FOR LIVE PLANT MATERIAL.

COA-23-031
ZON-23-089

ENVIRONMENT
DESIGN
GROUP

139 North County Road 5820-B Palm Beach, FL 33400
Phone: 561.832.4600 Mobile: 561.313.4424

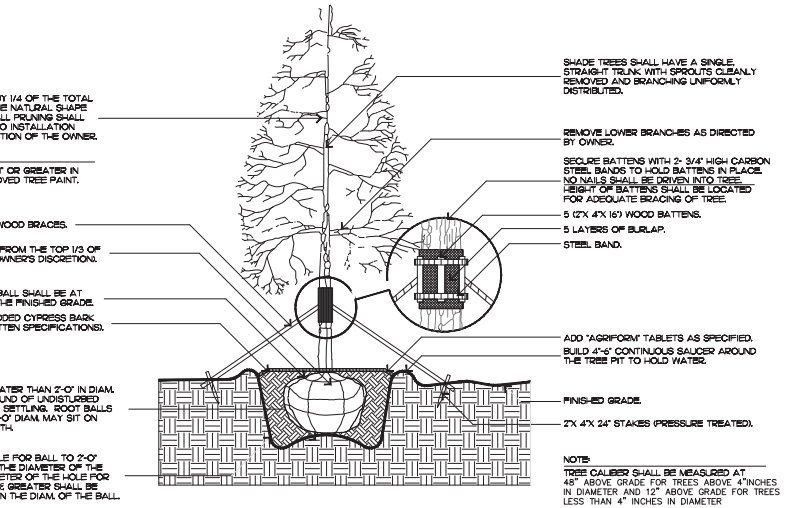
Landscape Architecture
Land Planning
Landscape Management

Dustin M. Mizell, M.L.A. P.L.A. #6666784
dustin@environmentaldesigngroup.com

Private Residence
223 Colonial Ln
Palm Beach

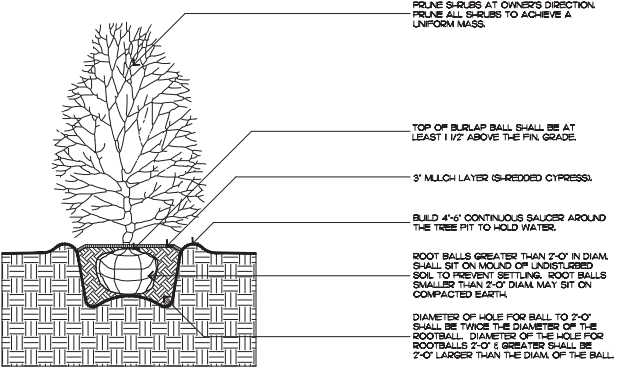
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DRAWN BY: Dustin Mizell
DATE: 07.13.2023
07.31.2023
08.10.2023
08.28.2023

SHEET L8.6



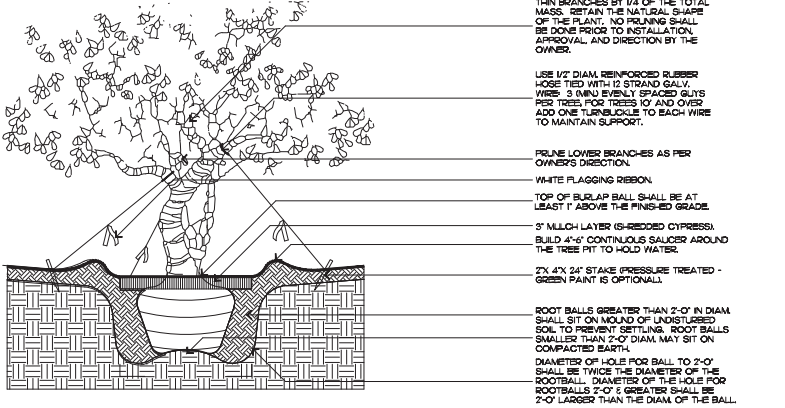
FILL MATERIAL SHALL CONSIST OF AT LEAST 1/3 NATIVE SOIL FROM THE HOLE DUG FOR THE PLANT. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.

tree planting



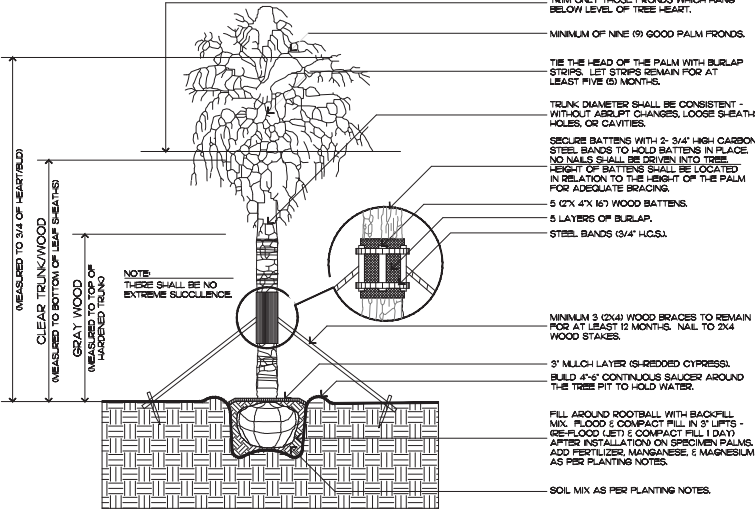
FILL MATERIAL SHALL CONSIST OF AT LEAST 1/3 NATIVE SOIL FROM THE HOLE DUG FOR THE PLANT. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.

shrub planting



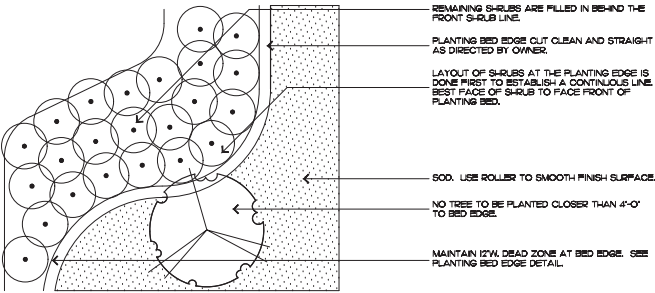
FILL MATERIAL SHALL CONSIST OF AT LEAST 1/3 NATIVE SOIL FROM THE HOLE DUG FOR THE PLANT. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.

irregular and multi-stem tree



FILL MATERIAL SHALL CONSIST OF AT LEAST 1/3 NATIVE SOIL FROM THE HOLE DUG FOR THE PLANT. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.

palm tree planting



shrub & ground cover layout

2023
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2023
DISCLAIMER:
Construction, as the term is generally understood, and that ENVIRONMENT DESIGN GROUP, dsgn, shall provide landscape architectural services during construction, including on-site monitoring, site visits, shop drawing review, design clarification, etc., the client agrees to indemnify and hold harmless ENVIRONMENT DESIGN GROUP from any liability arising from, acts or omissions in the performance of said services during construction by the client, and his/her agents, employees, or subcontractors.

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CALL TOLL FREE
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FLORIDA STATE ONE CALL
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Lighting Schedule

SYMBOL	DESCRIPTION	QTY.
▲ UL	UPLIGHT - AURORALIGHT - HSL16-R TELLURIDE BRASS - 3 WATTS - LED 3000K	15
○ WL	WELL LIGHT - AURORALIGHT - LWL5 LIGH-HAUS BRASS FINISH - 9 WATTS - LED 3000K	8
✦ PL	PATH LIGHT - AURORALIGHT - LPL8 - CORONA BRASS FINISH - 4.5 WATTS - LED 3000K	14



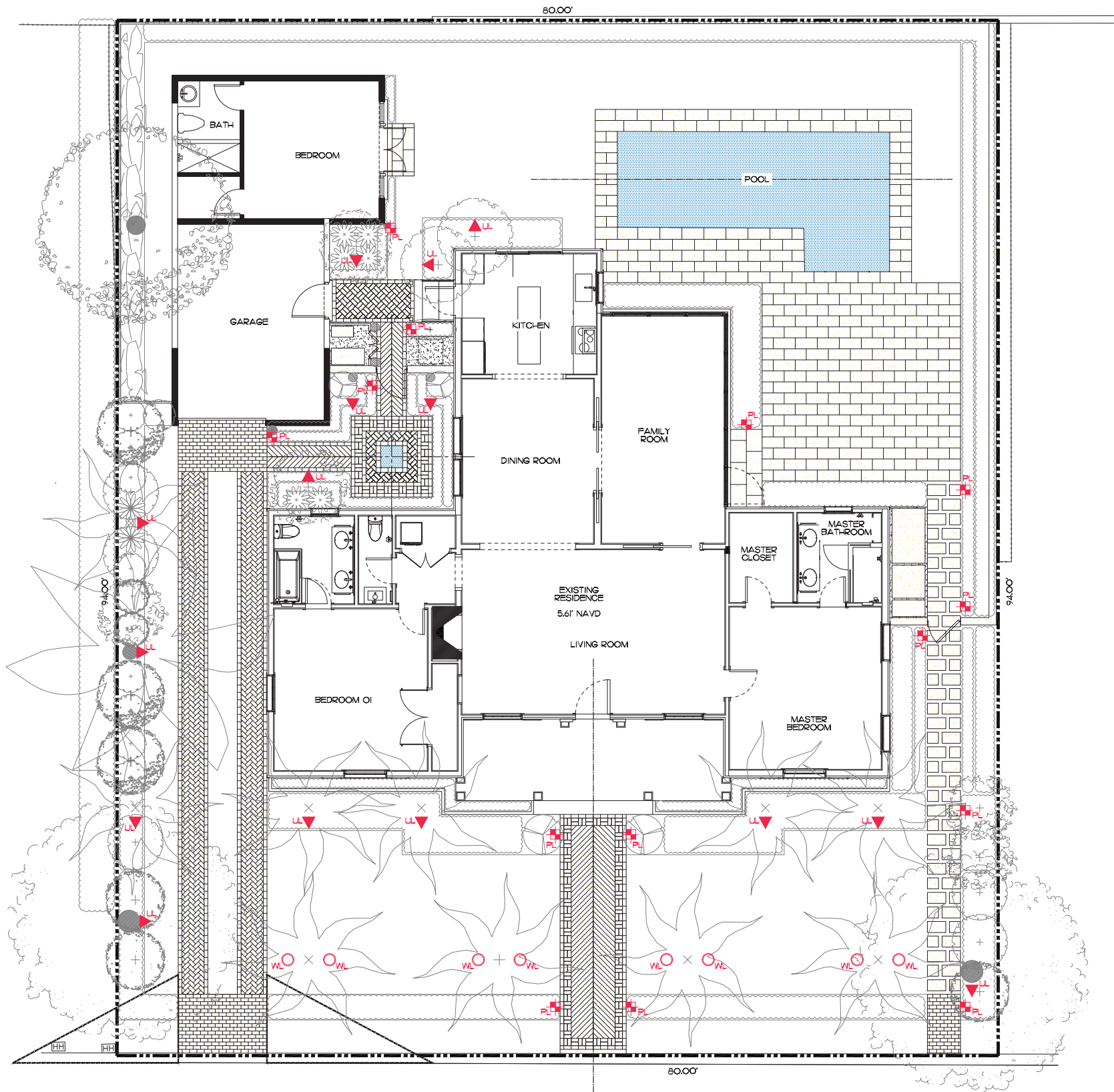
UPLIGHT



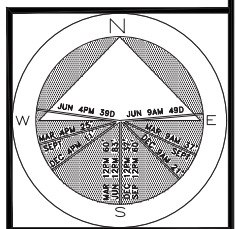
WELL LIGHT



PATH LIGHT



COLONIAL LANE



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SHEET L9.0

COA-23-031
ZON-23-089

Landscape Lighting Plan

SCALE 3/16" = 1'









South Elevation



North Elevation

Private Residence
223 Colonial Ln
Palm Beach

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SHEET 10.0

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ZON-23-089

Rendered Landscape Elevations
SCALE IN FEET: 3/16"=1'



East Elevation



West Elevation

Private Residence
223 Colonial Ln
Palm Beach

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SHEET L10.1



Old Chicago Brick

Front Entry Path

- 4" X 8" OLD CHICAGO BRICK BORDER
- 4" X 8" OLD CHICAGO BRICK BORDER IN BASKET WEAVE PATTERN
- 4" X 8" OLD CHICAGO BRICK FIELD PAVERS IN CHEVRON PATTERN

Driveway

- 4" X 8" OLD CHICAGO BRICK BORDER
- 4" X 8" OLD CHICAGO BRICK FIELD PAVERS IN HERRINGBONE PATTERN
- 4" X 8" OLD CHICAGO BRICK PAVER DRIVEWAY APRON IN RUNNING BOND STAGGERED PATTERN
- 4" X 8" OLD CHICAGO BRICK PAVER GARAGE ENTRY IN RUNNING BOND STAGGERED PATTERN

Courtyard Paths

- 4" X 8" OLD CHICAGO BRICK BORDER
- 4" X 8" OLD CHICAGO BRICK FIELD PAVERS IN CHEVRON PATTERN

Courtyard Fountain & Landing

- 4" X 8" OLD CHICAGO BRICK BORDERS
- 4" X 8" OLD CHICAGO BRICK BORDER PAVERS IN BASKET WEAVE PATTERN
- 4" X 8" OLD CHICAGO BRICK FIELD PAVERS IN BASKET WEAVE PATTERN AT 45° ANGLE
- 4" X 8" OLD CHICAGO BRICK FOUNTAIN COPING

Kitchen Entry Landing

- 4" X 8" OLD CHICAGO BRICK BORDER
- 4" X 8" OLD CHICAGO BRICK FIELD PAVERS IN BASKET WEAVE PATTERN AT 45° ANGLE



Coral Stone

East Side Yard Path

- 12" X 24" CORAL STONE PAVERS IN RUNNING BOND, STAGGERED PATTERN WITH LAWN / LANDSCAPE JOINTS

East Family Room Steps

- 15" X 24" CORAL STONE PAVERS IN RUNNING BOND, STAGGERED PATTERN

East Terrace

- 15" X 24" CORAL STONE PAVERS IN RUNNING BOND, STAGGERED PATTERN

Pool Coping & Deck

- 12" X 24" CORAL STONE POOL COPING
- 12" X 24" CORAL STONE POOL DECK IN RUNNING BOND, STAGGERED PATTERN

Garage Bedroom Landing

- 12" X 24" CORAL STONE PAVERS IN RUNNING BOND, STAGGERED PATTERN

Private Residence
223 Colonial Ln
Palm Beach

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SHEET L11.0

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Proposed Hardscape Images

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CALL
1-800-432-4770
SUNSHINE STATE ONE CALL
OF FLORIDA, INC.

Contractor is responsible for obtaining
location of existing utilities prior to
commencement of construction activities.



Gruber Consulting
Engineers, Inc.

2475 MERCER AVE., SUITE 305
WEST PALM BEACH, FL 33411
PHONE: 561.312.2641
office@grubercs.com

Project Information				
Project No.	2023-0046	Issue Date	07/29/2023	Scale
Drawn By	1/8" = 1'-0"	Drawn By	KM	CG
Checked By		Checked By		

Conceptual Site Grading & Drainage Plan For:
Proposed Renovation
Palm Beach, Florida
223 Colonial Lane

Revisions

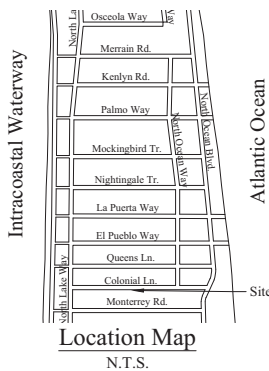
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Chad M. Gruber

FL P.E. No. 57466

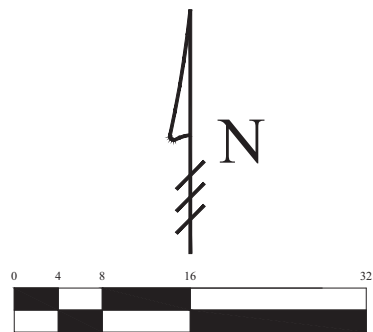
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C-1



Legend

- EXISTING ELEVATION PER PROJECT REPRESENTATIVES (NAVD-88)
- PROPOSED ELEVATION (NAVD-88)
- PROPOSED ELEVATION CONTOUR (NAVD-88)
- FLOW DIRECTION
- EXFILTRATION TRENCH
- AREA DRAIN
- 24" NYLOPLAST DRAIN BASIN WITH BAFFLE



Scale: 1/8" = 1'-0"

STORMWATER RETENTION CALCULATIONS

A. SITE INFORMATION

Total Property Area = 7,520 sq.ft.

Drainage Area Impervious Surface = 4,136 sq.ft.

Drainage Area Pervious Surface = 3,384 sq.ft.*

* Minimum required by zoning code without a variance.

B. ESTIMATED STORMWATER RETENTION VOLUME

The retention volume is estimated using the Rational Method (Q=CiA) where:

C = 1.0 (impervious surface)

C = 0.2 (pervious surface)

i = 2 in/hr

Impervious Surface Runoff Volume:

1.0 x 2 in/hr x 4,136 sq.ft. x 1 ft./12 in. = 690 cu.ft.

Pervious Runoff Volume:

0.2 x 2 in/hr x 3,384 sq.ft. x 1 ft./12 in. = 113 cu.ft.

Total Volume to be Retained = 803 cu.ft.

C. PROPOSED EXFILTRATION TRENCH SIZING

Exfiltration Trench #1

L = Total Length of Trench Provided = 70 ft
W = Trench Width = 12 ft
K = Hydraulic Conductivity = 0.00005 cfs/sq.ft. of head
H2 = Depth to Water Table = 2.08 ft
DU = Un-Saturated Trench Depth = 1.00 ft
DS = Saturated Trench Depth = 1.00 ft
V = Volume Treated = 834 cu.ft.

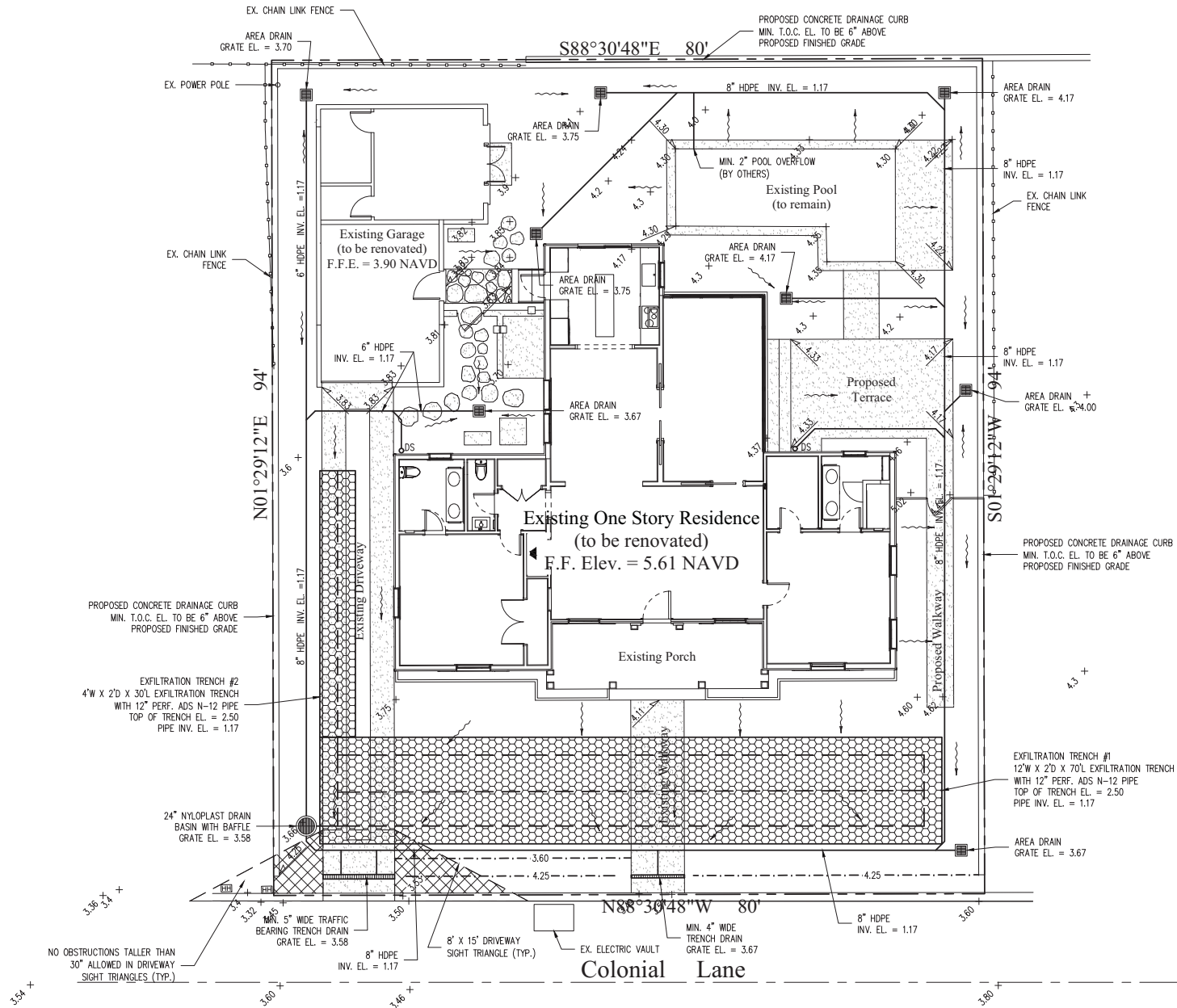
Exfiltration Trench #2

L = Total Length of Trench Provided = 30 ft
W = Trench Width = 4 ft
K = Hydraulic Conductivity = 0.00005 cfs/sq.ft. of head
H2 = Depth to Water Table = 2.08 ft
DU = Un-Saturated Trench Depth = 1.00 ft
DS = Saturated Trench Depth = 1.00 ft
V = Volume Treated = 145 cu.ft.

Total Volume Retained in Exfiltration Trenches = 979 cu.ft.

Notes:

- Exfiltration trenches and storm piping to be protected from roots with a root barrier.
- Roof drain downspouts are to be connected to the proposed drainage system. Contractor to provide engineer with downspout locations prior to installation of drainage system.
- Exfiltration trench design uses an assumed value of hydraulic conductivity. Client may obtain a site specific test for hydraulic conductivity prior to exfiltration trench installation.
- Contractor shall mill and overlay all roadway cuts a minimum of 50 ft. on either side of the excavation the entire width of each affected lane.
- Contractor is responsible for installing and maintaining erosion control measures during construction.
- Video inspection of storm drainage system required prior to installation of sod.



This item has been electronically signed and sealed by Chad M. Gruber on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

Plan Background from Hardscape Plan by
Environment Design Group Received 7/13/23

ARC-23-090
ZON-23-068

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