66th Avenue - Phase 1A

Indian River County

100% Landscape Plans - December 2020 Station 295+00 to 354+00

INDEX OF LANDSCAPE PLANS

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DEVELOPMENT TEAM

Client

Indian River County 1840 25th Street Vero Beach, FL 32960 Project Engineer: Richard B Szpyrka, P.E.

Civil Engineer

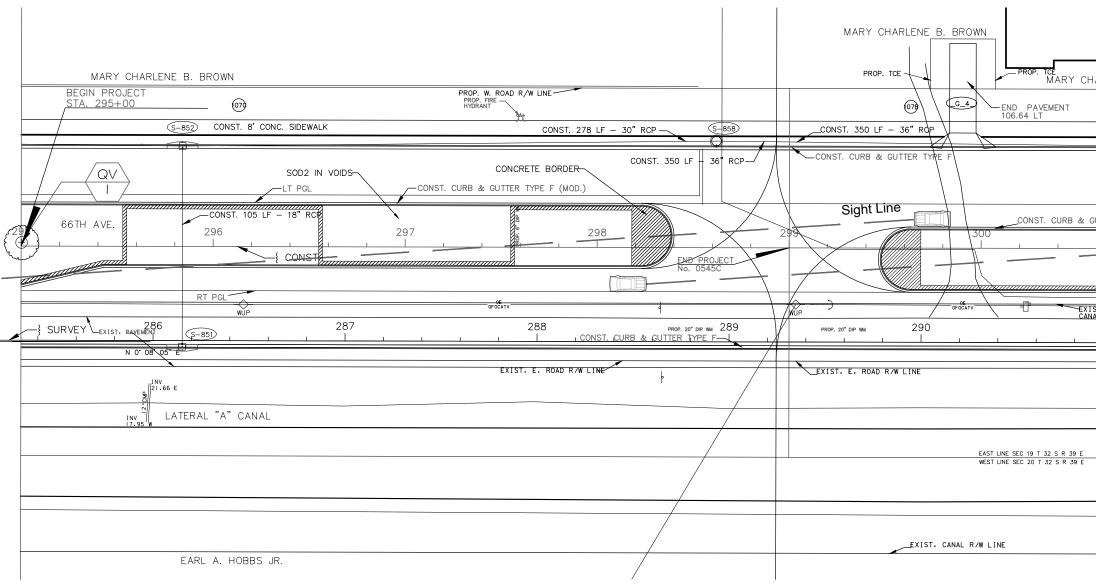
Arcadis Robert W. Lawson, P.E. 1500 Gateway Blvd., Ste 200 Boynton Beach, FL 33426 P: 561.697.7002

Landscape Architect

Lucido & Associates, P.A. Thomas P. Lucido, RLA 100 Avenue A, Suite 2A Fort Pierce, FL 34950 P: 772.467.1301

Irrigation Consultant

Masuen Consulting, LLC 5079 N. Dixie Highway #323 Oakland Park, FL 33334 P: 866.9278.1533 x 114



TRE ٨



Land Planning / Landscape Architecture 701 E Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220



Project Team:

Client Indian River County 1840 25th Street Vero Beach, FL 32960 Project Engineer: Etienne B. Bourgeois, P.E.

<u>Civil Engineer</u> Arcadis Hank Deibel, P.E. 2018 Vista Parkway West Palm Beach, FL 33411 P: 561.697.7000

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66th Avenue Phase 1A

Indian River County

Roadway Landscape Plan

Date By Description 5/13/17 BN Revs. Per County Comments 12/11/17 BN 100% CD SCALE: 1" = 50' REG. # 1018 12.5' 25' 50' Thomas P. Lucido Designer ĸν Shee BN Manager of 19 Project Number 16-260 Municipal Number 00-000 Computer File 16-260 66thAve RoadwayLandscapeCurr

TCE PROP. TCE PROP. TCE 12 (07) ine tch L 22/ CONST. CURB & GUTTER TYPE F (MOD.) EXIST. W. ROAD AND CANAL R/W LINE WUP 291 12 ne ਦੁਦਿ

PLANT SCHEDULE

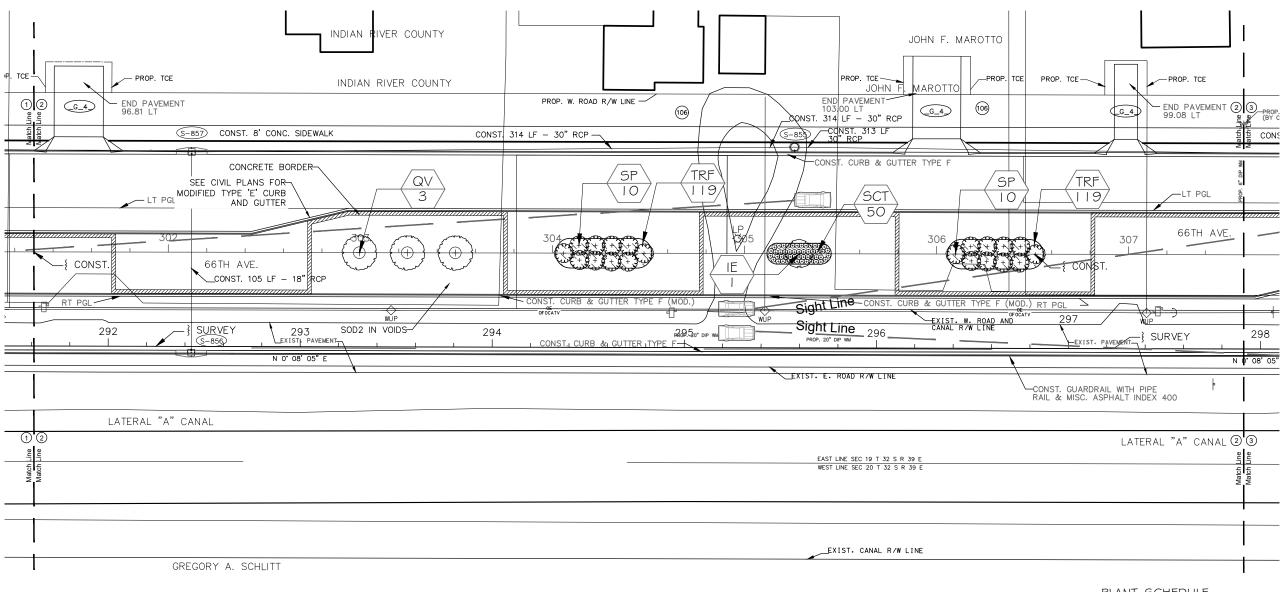
TREES	COMMON NAME
+	East Palatka Holly
*	Japanese Privet Tree
+	Live Oak
+ + +	Sabal Palm
SHRUBS	COMMON NAME
$\langle \pm \rangle$	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Grass

TREES TO BE REMOVED



 \bigotimes Palm Unknowr

Oak



٨

2 + 3

PLANT_SCHEDULE

TREES	COMMON NAME
+	East Palatka Holly
	Japanese Privet Tree
+	Live Oak
+ + + +	Sabal Palm
SHRUBS	COMMON NAME
$\langle \pm \rangle$	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Gras

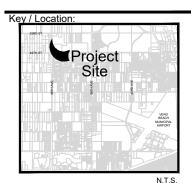
TREES TO BE REMOVED



 \otimes Oak Unknowr



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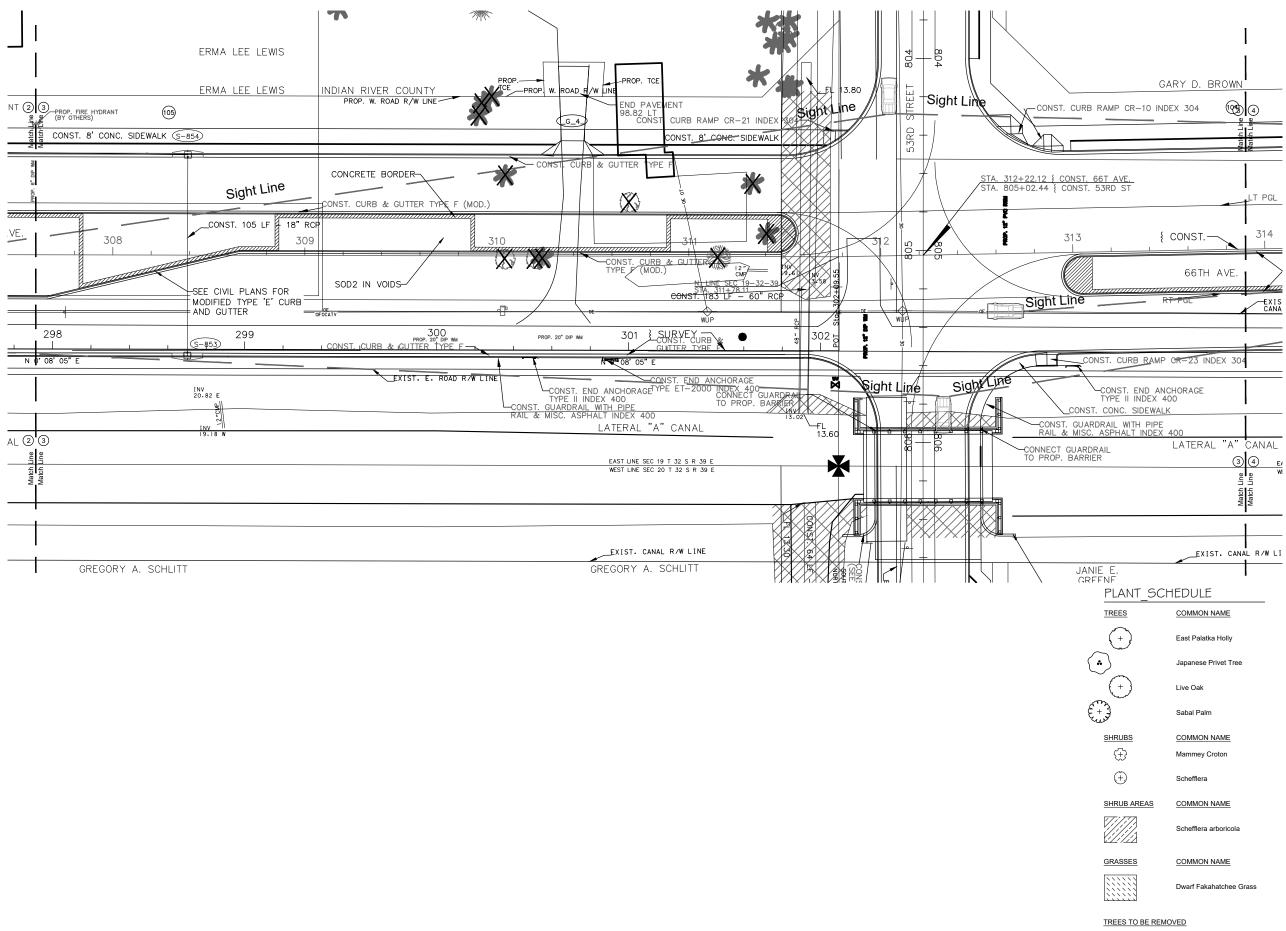
66th Avenue Phase 1A

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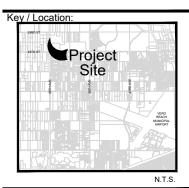
Roadway Landscape Plan

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66th Avenue Phase 1A

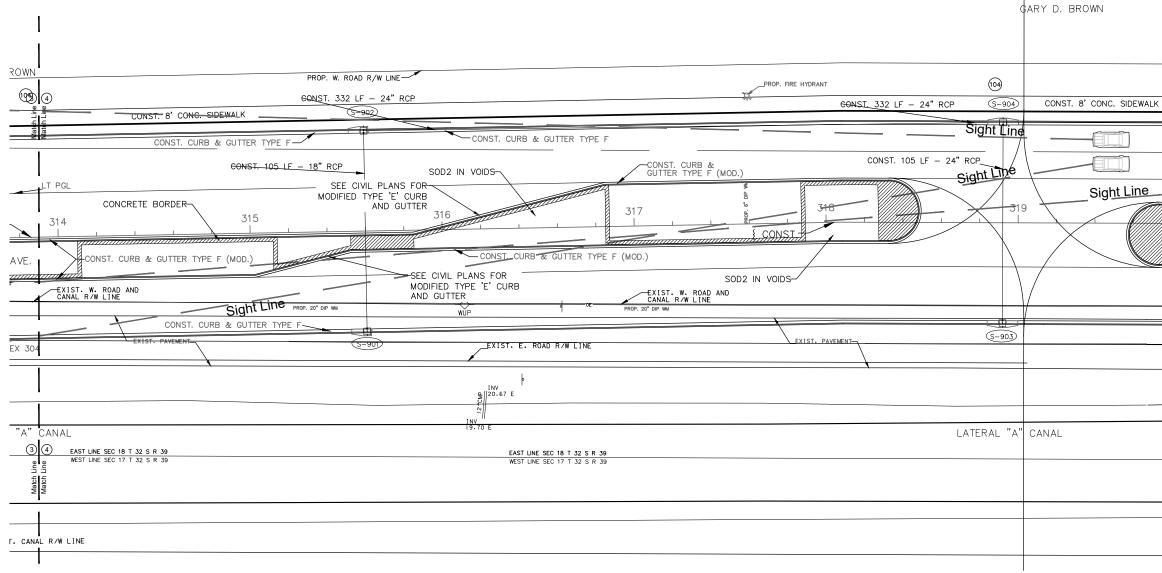
Indian River County

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Designer	KV Sheet	-
Manager		
Project Number	^{BN} 3 of 19	
Municipal Number	00-000	
Computer File	16-260 66thAve RoadwayLandscapeCi	irre

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Palm Oak Unknown







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45 Sight Line 320 66TH AV RT P (4) (5) Pe PLANT SCHEDULE TREES COMMON NAME $\left(+ \right)$ East Palatka Holly Japanese Privet Tree { + } Live Oak Sabal Palm SHRUBS COMMON NAME £} Mammey Croton (+)Schefflera

SHRUB AREAS

GRASSES

TREES TO BE REMOVED



Palm Oak Unknown

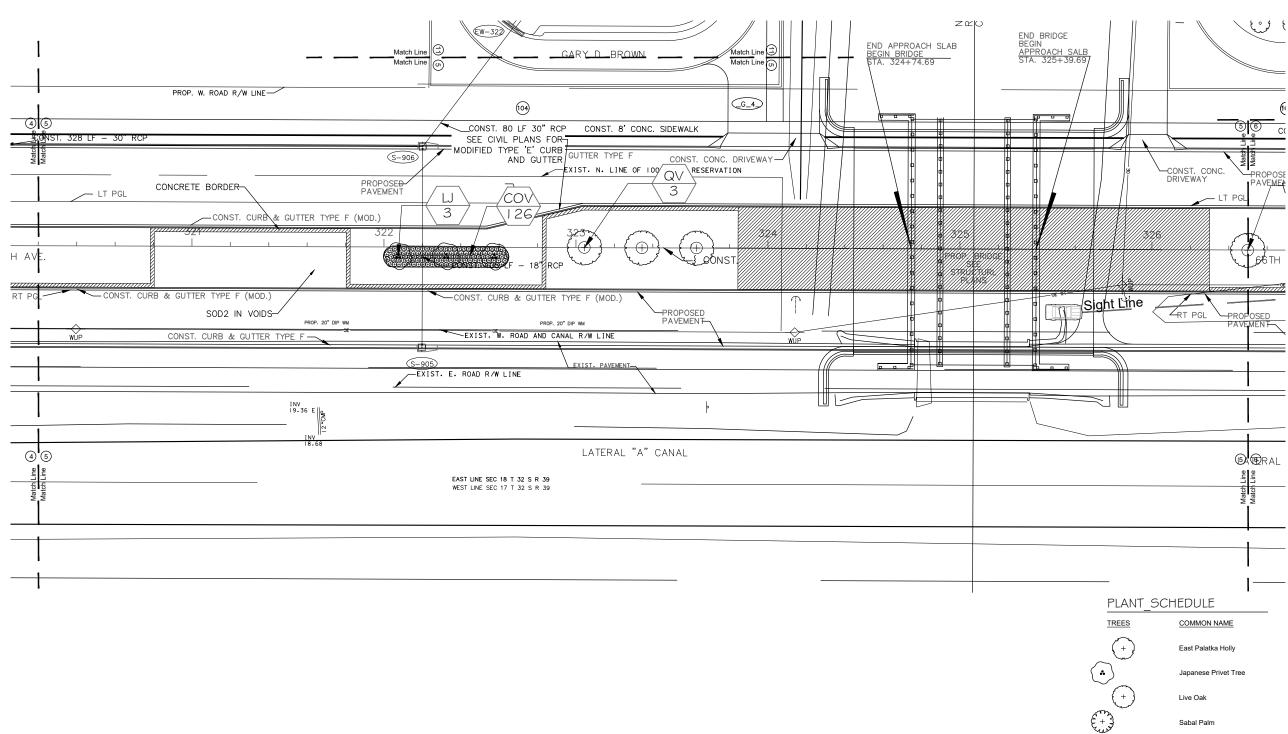
COMMON NAME

COMMON NAME

Dwarf Fakahatchee Grass

Schefflera arboricola

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+	East Palatka Holly
	Japanese Privet Tree
+	Live Oak
the second	Sabal Palm
SHRUBS	COMMON NAME
$\langle \pm \rangle$	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Gra

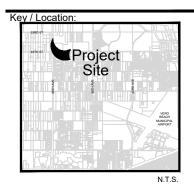
TREES TO BE REMOVED



 \otimes Unknow



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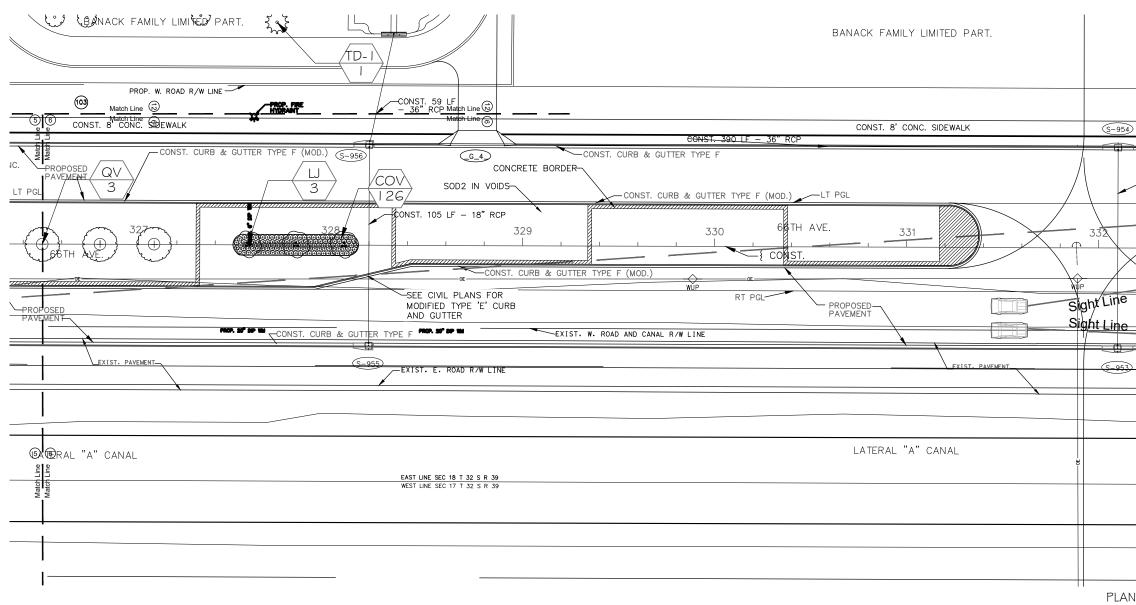
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66th Avenue Phase 1A

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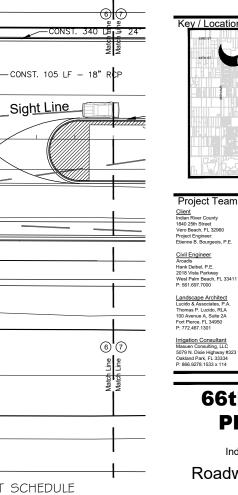
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TREE ٨



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PLANT_SCI	HEDULE
TREES	COMMON NAME
+	East Palatka Holly
	Japanese Privet Tree
+	Live Oak
	Sabal Palm
SHRUBS	COMMON NAME
< : }	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
77.777	

Schefflera arboricola

GRASSES COMMON NAME

Dwarf Fakahatchee Grass

TREES TO BE REMOVED



.

Palm Oak Unknown



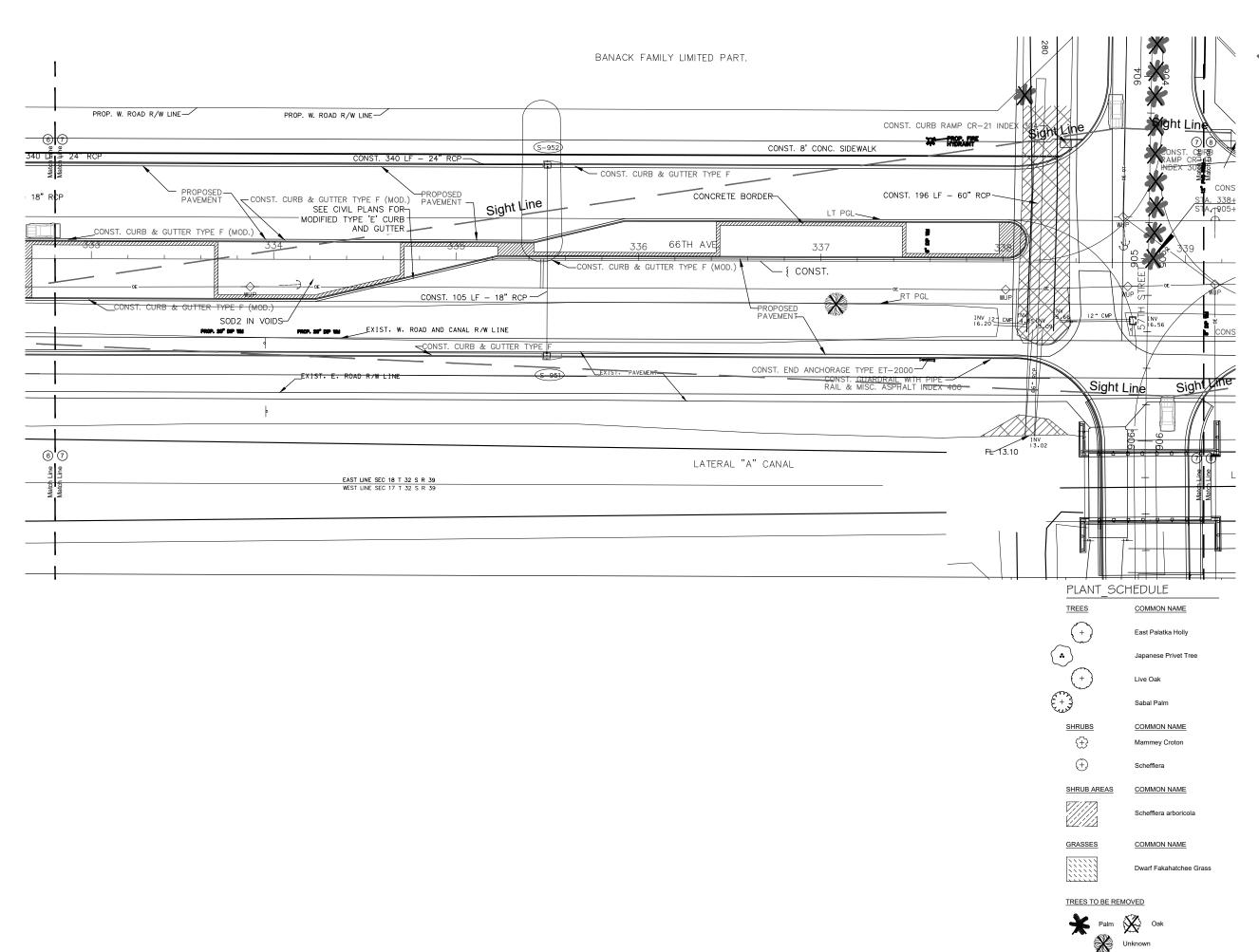
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66th Avenue Phase 1A

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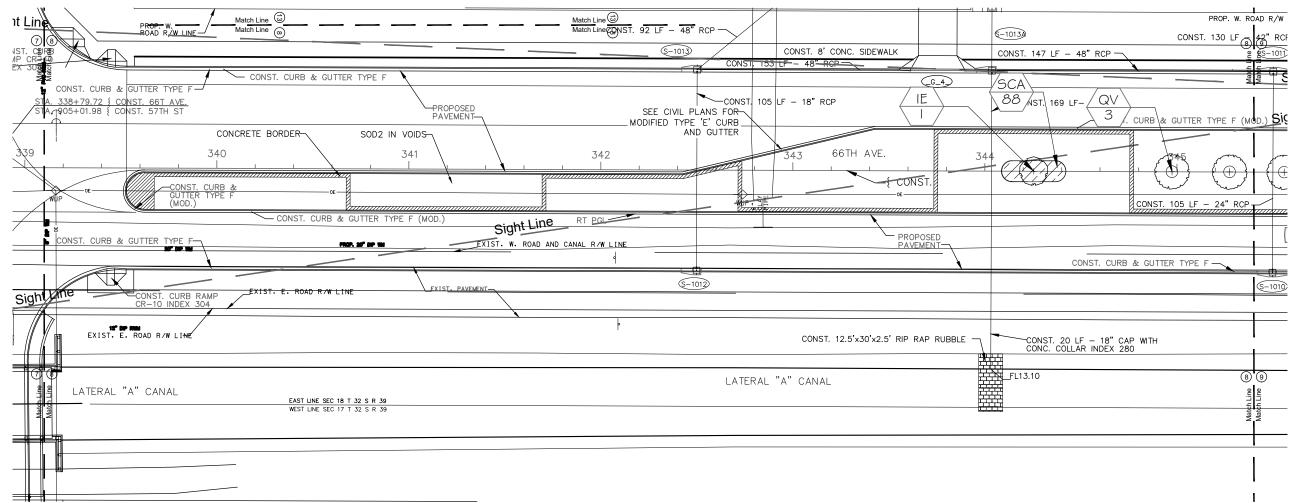
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66th Avenue Phase 1A

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66th Avenue Phase 1A

Indian River County

Roadway Landscape Plan

5/13/17 BN R	escription evs. Per Cou	unty Comments	
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Designer	KV	Sheet	
Manager	BN 16-260	8 of ′	10
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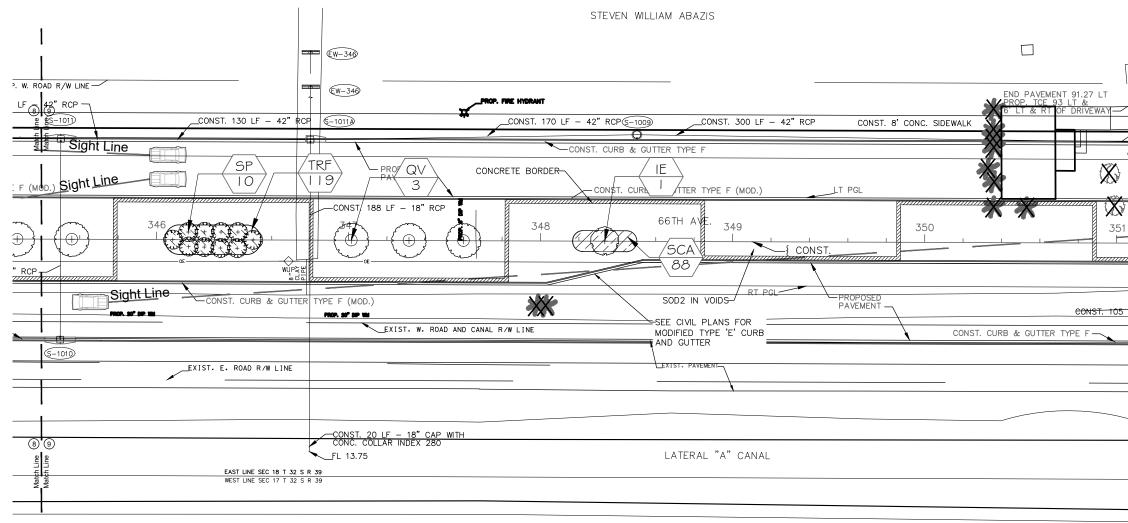
PLANT SCHEDULE

TREES	COMMON NAME
+	East Palatka Holly
*	Japanese Privet Tree
+	Live Oak
	Sabal Palm
SHRUBS	COMMON NAME
$\langle \pm \rangle$	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Grass

TREES TO BE REMOVED



Palm Oak Unknowr







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66th Avenue Phase 1A

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PROP. W. BOAD W LINE NST. 250 100 00" RC S-1008 _G_4_ CONST. 105 LF - 24" RCP, S-1007 -⊘-9 10 ine Mato

PLANT SCHEDULE

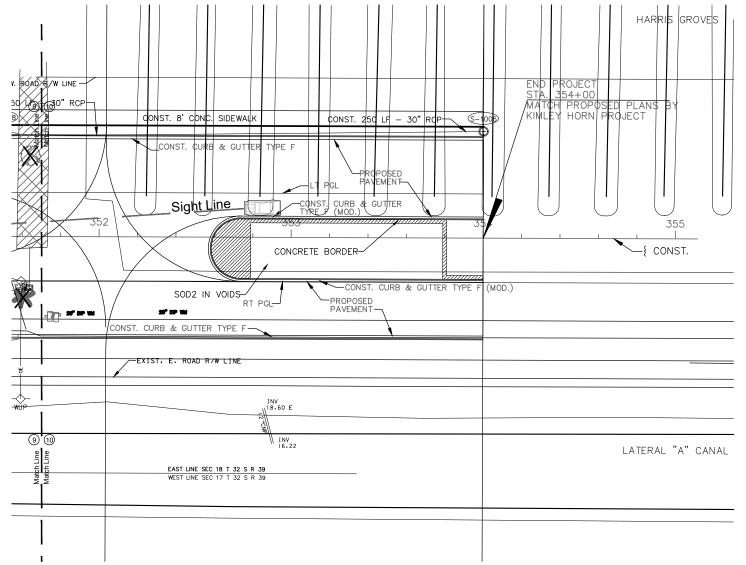
EES	COMMON NAME
+	East Palatka Holly
	Japanese Privet Tree
+	Live Oak
	Sabal Palm
RUBS	COMMON NAME
(±)	Mammey Croton
(+)	Schefflera
RUB AREAS	COMMON NAME
	Schefflera arboricola
ASSES	COMMON NAME
	Dwarf Fakahatchee Gra

TREES TO BE REMOVED



 \bigotimes Palm Unknow

Oak



PLANT_SCHEDULE

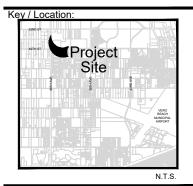
TREES	COMMON NAME
+	East Palatka Holly
*	Japanese Privet Tree
+	Live Oak
	Sabal Palm
SHRUBS	COMMON NAME
(])	Mammey Croton
(+)	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Grass
TREES TO BE REMO	<u>VED</u>





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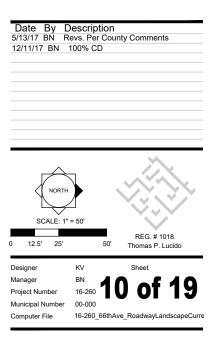
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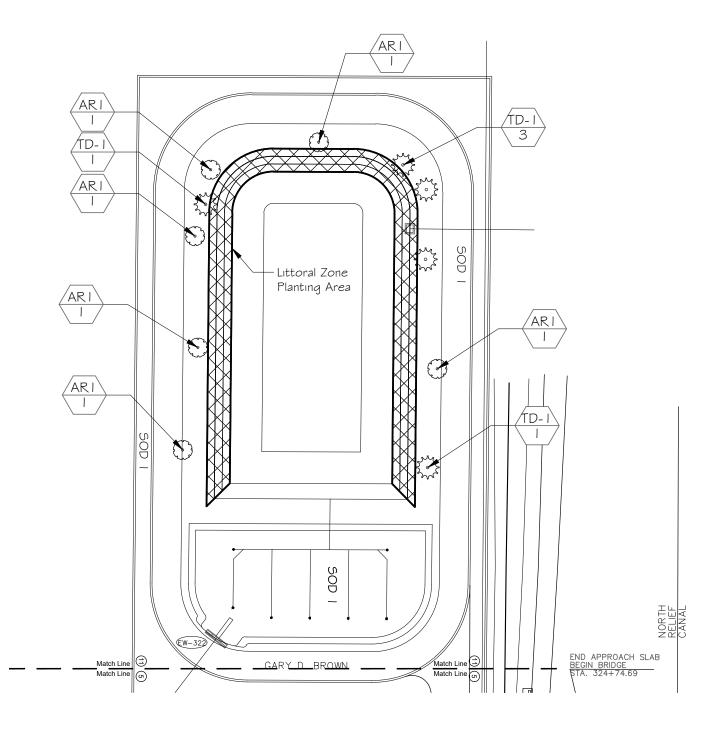
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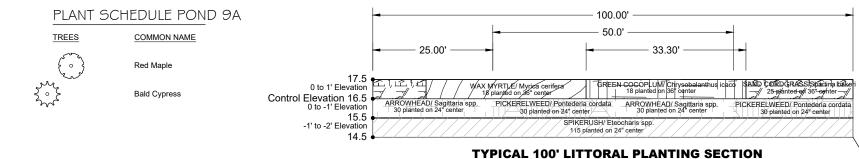
66th Avenue Phase 1A

Indian River County

Roadway Landscape Plan

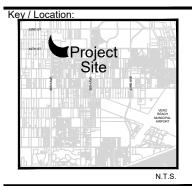








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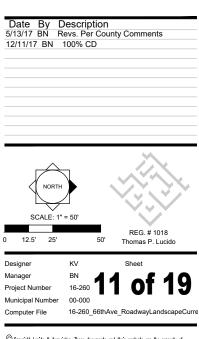
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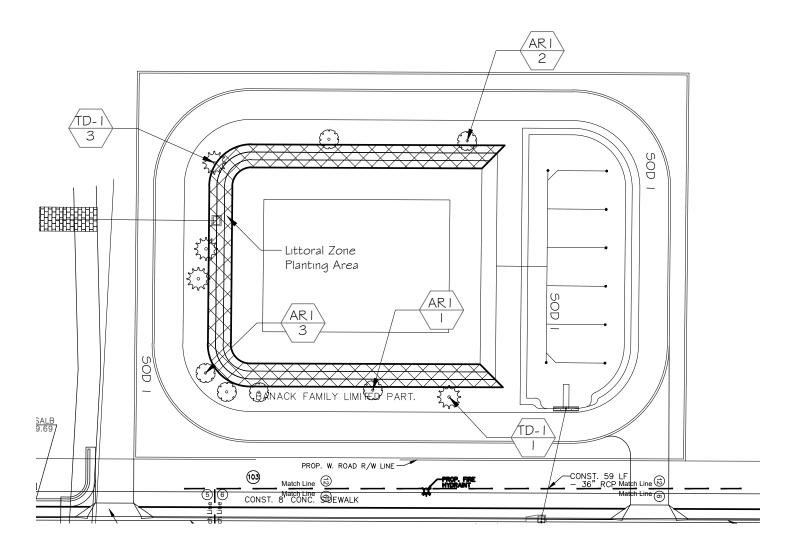
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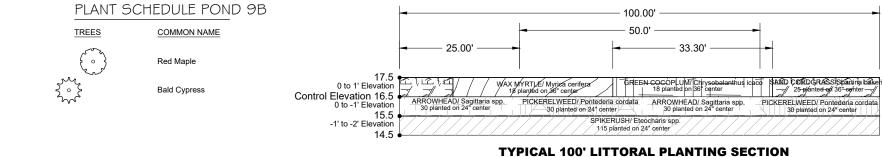
66th Avenue Phase 1A

Indian River County

Pond 9A Landscape Plan



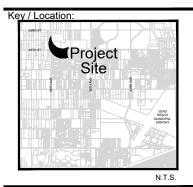




Scale 1"=20'-0"



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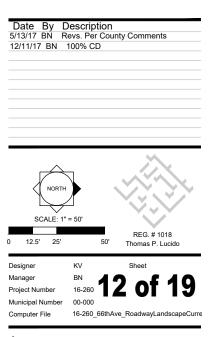
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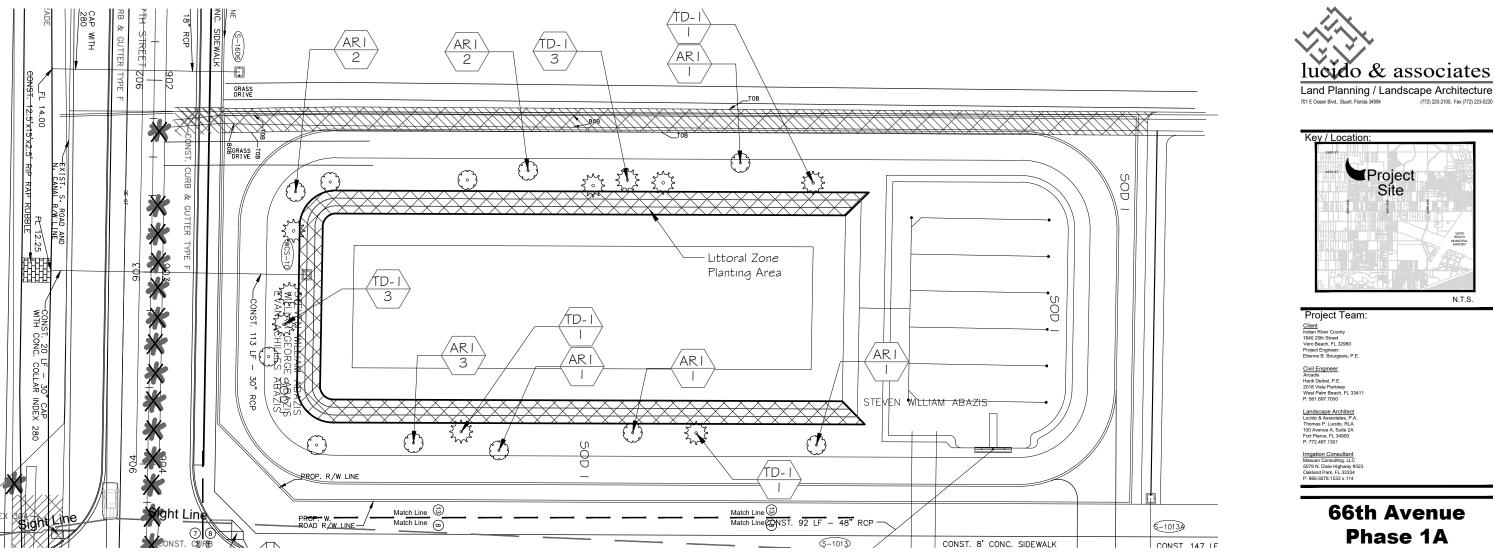
Irrigation Consultant Masuen Consulting, LLC Masuen Consulting, LLC 5079 N. Dixie Highway # Oakland Park, FL 33334 P: 866.9278.1533 x 114

66th Avenue Phase 1A

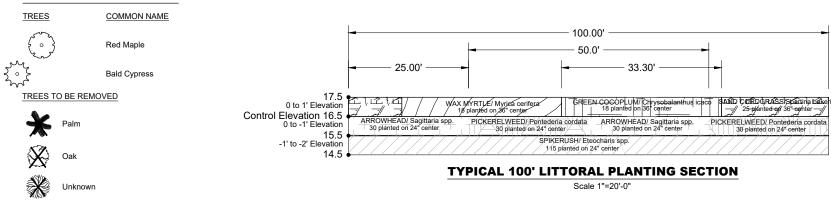
Indian River County

Pond 9B Landscape Plan





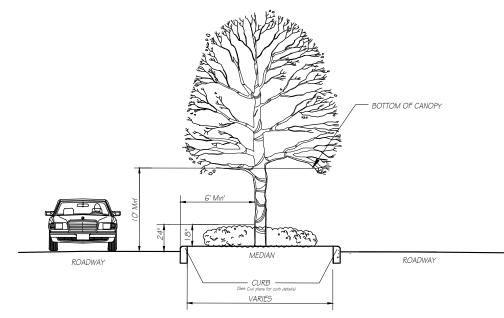
PLANT SCHEDULE POND 10



Indian River County

Pond 10 Landscape Plan

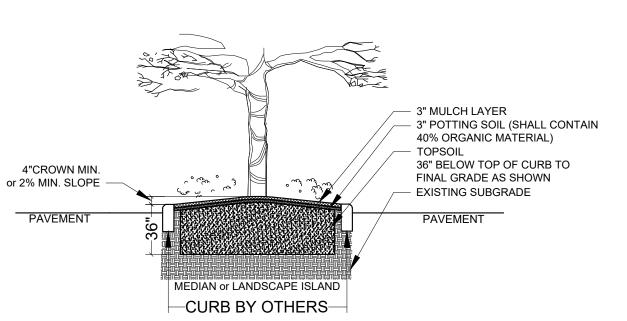
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* TREE DEPICTED SHOWN FOR GRAPHIC PURPOSES ONLY. IT DOES NOT REFLECT PLANTING SPECIFICATIONS

*MAINTAIN AN 18" MULCH STRIP WHERE SHRUBS AND GROUNDCOVER ARE PLACED IMMEDIATELY ADJACENT TO CURB.

TYPICAL MEDIAN DETAIL NOT TO SCALE



THIS DETAIL SHOWN DEPICTS A MEDIAN AND/OR LANDSCAPE ISLAND AND IS FOR GRAPHIC PURPOSES ONLY; SOIL PREPARATION SHALL APPLY TO ALL TREE, SHRUB, & GROUND COVER AREAS. THIS DOES NOT INCLUDE SOD AREAS

LANDSCAPE AREA PREPARATION DETAIL

NOT TO SCALE

- *TOPSOIL SHALL BE NATURAL, FRIABLE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY OF THE PROJECT SITE THAT PRODUCES HEAVY GROWTH.
- TOPSOIL SHALL HAVE A PH RANGE OF 5.5-7.4, FREE FROM SUBSOIL, WEEDS, LITTER, SODS, CLAY, STONES, STUMPS, ROOTS, TRASH, HERBICIDES, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH, OR HINDER PLANTING OPERATIONS.
- TOPSOIL SHALL CONTAIN A MINIMUM OF 3% ORGANIC MATERIAL. TOPSOIL MUST PERCOLATE WATER AT A RATE OF 1" PER HOUR (SEE ALSO DRAINAGE TESTING DETAIL FOR TREES) LANDSCAPE AREA SOILS SHALL BE APPROVED BY LANDSCAPE ARCHITECT/OWNER PRIOR TO PLANTING

TOPSOIL ROOTBALL 30000000 6" DIA. DRAINAGE DETAIL

DRAINAGE TESTING DETAIL

NOT TO SCALE

DRAINAGE TESTING/DRAINAGE CHANNEL REQUIREMENTS.

PRIOR TO PLANTING, ALL PLANTING PITS SELECTED FOR TESTING SHALL BE TESTED IN THE FOLLOWING MANNER.

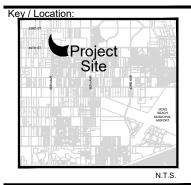
- DIG EACH PLANTING PIT TO THE MINIMUM SPECIFIED SIZE. Α.
- в FILL PLANTING PIT WITH TWELVE INCHES (12") OF WATER. IF THE WATER LEVEL DROPS FOUR (4") OR MORE WITHIN FOUR (4) HOURS, THE DRAINAGE IS SUFFICIENT AND A DRAINAGE CHANNEL IS NOT REQUIRED. IF THE WATER LEVEL DROPS LESS THAN FOUR INCHES (4") WITHIN THE FOUR (4) HOUR PERIOD, A DRAINAGE CHANNEL IS REQUIRED.
- WHERE REQUIRED, THE DRAINAGE CHANNEL MUST EXTEND C. DOWN THROUGH THE NON POROUS SOIL AND INTO POROUS SOIL. (SEE DETAIL)
- D. ALL MATERIAL REMOVED FROM THE DRAINAGE CHANNEL SHALL BE DISCARDED.
- E. WHEN BACKFILLING PLANTING PITS WITH NATIVE TOPSOIL CARE MUST BE TAKEN TO KEEP THE CONSISTENCY OF THE SOIL MIX THE SAME THROUGHOUT THE PLANTING PIT AND DRAINAGE CHANNEL

Notes **1.** All medians or portions thereof are within the limits of clear sight. 2. Any trunk larger than 4" in diameter shall be removed on multi-trunk trees if they are within limits of clear sight. 3. All Shrubs & Groundcovers shall be maintained at a height no greater than 18" above top of curb if they are within the limits of clear sight. 4. Canopy or high borne foliage should never be lower than 10' above the roadway within the limits of clear sight. (See typical elevation) 5. Landscape Contractor should verify all existing underground utilities prior to diaaina. 6. Site prep, clean up, grading, and plant bed prep is the responsibility of the

Landscape Contractor



701 E Ocean Blvd., Stuart, Florida



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Civil Engineer Arcaols Hank Deibel, P.E. 2018 Vista Parkway West Palm Beach, FL 33411 P: 561.697.7000

Landscape Architect Thomas P. Lucido, RL/ 100 Avenue A, Suite 2/ Fort Pierce, FL 34950 P: 772.467.1301

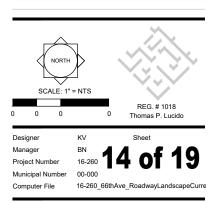
Irrigation Consultan 5079 N. Dixie Highway # Oakland Park, FL 33334 P: 866.9278.1533 x 114

66th Avenue Phase 1A

Indian River County

Typical Median Landscape Details

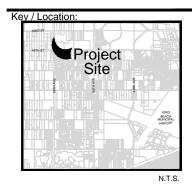
Date By Description 5/13/17 BN Revs. Per County Comments 12/11/17 BN Added Details 12/11/17 BN 100% CD





FDOT Pay Item No.	SYM	Description	Spacing	SIZE	UNIT	QTY
580-1-1		 Landson	Complete	Small Plants		
300-1-1	SP2	· · · · · · · · · · · · · · · · · · ·	-	1G, 12" HT x 10" SPR, F	EA.	20
	MC2	Sand Cord Grass - Spartina bakeri Wax Myrtle - Myrica cerifera	36" 36"			26
			30 36"	1G, 18" OA, FTB	EA.	26
	CH2	Green Coco Plum - Chrysobalanus icaco		1G, 18" HT x 12" SPR, F DB. Chan Free of Weeds	EA.	26
	PON	Pickerel Weed - Pontederia cordata	24"	BR, Clean, Free of Weeds	EA.	85
	ELE		24"	BR, Clean, Free of Weeds	EA.	162
	SAT	Duck Potato - Sagittaria lancifolia	24"	BR, Clean, Free of Weeds	EA.	85
	COL	Mammey Croton - Codiaeum variegatum	0.4 1		Π.	
	COV	'Mammey'	24"	3G, 24" OA, F	EA.	25
		Dwarf Fakahatchee Grass - Tripsacum	201			
	TRF	floridanum	30"	3G, 18" OA, FTB	EA.	35
	SCA	Green Schefflera - Schefflera arboricola	24"	3G, 18" OA, FTB	EA.	17
		Variegated Schefflera - Schefflera				
	SCT	arboricol 'Trinette'	24"	3G, 24" HT x 18" SPR, F, 30" OC	EA.	5
580-1-2		-	e Complete -	Large Plants		
	Name of Street	East Palatka Holly - Ilex attenuata 'East				
	IE	Palatka'		FG, 12' HT x 6' SPR, 3"C, SP, AS	EA.	
		Japanese Privet Tree - Ligustrum				
	LJ	japonicum		CG, 12'OA, 8' CT, STD, F, SP, AS	EA.	1
	QV	Live Oak - Quercus virginiana		FG, 12' HT x 6' SPR, 3"C, F, SP, HO W/FEEDER ROOTS EXPOSED, AS	EA.	1
	SP	Cabbage Palm - Sabal palmetto		FG, 8'-20' CT HT, BTD OR SLK TR, SUN GROWN, HV CAL, SP, HURRICANE CUT, AS	EA.	3
	AR1	Red Maple - Acer rubrum		7G, 5' OA, 1"C	EA.	2
	TD-1	Bald Cypress - Taxodium distichum		7G, 5' OA	EA.	1
570-1-2		Per	r <mark>formace Tu</mark>	rf- Sod		
	SOD1	Paspalum notatum - Argentine Bahia	N/A	Solid sod; certified weed, desease and pest free	SY	Refer to Civil
				bond sou, confiled wood, desease and pest free		Engineering
	SOD2	Stenotaphrum secundatum - St. Augustine	N/A	Solid sod; certified weed, desease and pest free	SY	Plans





Project Team:

Client Indian River County 1840 25th Street Vero Beach, FL 32960 Project Engineer: Etienne B. Bourgeois, P.E.

<u>Civil Engineer</u> Arcadis Hank Deibel, P.E. 2018 Vista Parkway West Palm Beach, FL 33411 P: 561.697.7000

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Irrigation Consultant Masuen Consulting, LLC 5079 N. Dixie Highway #323 Oakland Park, FL 33334 P: 866.9278.1533 x 114

66th Avenue Phase 1A

Indian River County

Plant Schedule

Date By Description

	escription
	evs. Per County Comments
	Revs. Per County Comments
	00% CD ant Schedule Column Width
12/1/20 DN Pla	ant Schedule Column Width
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NORTH	
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SCALE: 1" :	= NTS
0 0 0	REG. # 1018
	- Thomas P. Lucido
Designer	KV Sheet
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Manager	^{BN} 15 of 19
Project Number	¹⁶⁻²⁶⁰ 1 J U 1 7
Municipal Number	00-000
Computer File	16-260_66thAve_RoadwayLandscapeCurrent

LANDSCAPE SPECIFICATIONS

- PART 1 GENERAL CONDITIONS
- 1 01 SCOPE
- The landscape contract includes the supplying and planting of all trees, shrubs, vines, and ground cover together with all necessary labor, equipment, tools and materials needed for the successful completion, execution and maintenance of the landscape plans.
- AGENCY STANDARDS 1.02
- Grades and standards of plant materials to be used shall be true to name, size, condition and graded Florida #1 or better as stated in Grades and Standards of Florida Plant Materials published by the State of Florida Department of Agriculture, Tallahassee, Florida
- 1.03 SITE EXAMINATION
- SITE EXAMINATION: The Landscape Contractor shall personally examine the site and fully acquaint him/heriself with all of the existing conditions in order that no mis-understanding may afterwards arise as to the character or extent of the work to be performed, and, additionally, in order to acquaint him/herself with all precautions to be taken in order to avoid injury to property or persons. No additional compensation will be granted because of any unusual difficulties which may be encountered in the execution or maintenance of any portion of the work.
- ERRORS AND OMISSIONS 1.04
- The plant list is a part of the drawings and is furnished as a convenience. The plant list indicates the name, size and quantities of specific plant materials as called for and is located on the drawings. The Landscape Contractor is responsible for his/her own quantity count, and any discrepancy between drawings and plant list shall be considered as correct on the drawings.
- The Landscape Contractor shall not take advantage of errors or omissions in the specifications or contract drawings. Full instruction will be given if such errors are discovered. Upon the discovery of any discrepancies in, or omissions from the drawings or documents, or should the Landscape Contractor be in doubt as to their meaning, the Landscape Architect shall be notified and will determine the
- If plans and specifications are found to disagree after the contract is awarded, the Landscape Architect shall be the judge as to which
- 1.05 EXECUTION OF THE WORK:
- The Landscape Contractor shall have his labor crews controlled and directed by a Foreman well versed in plant materials, planting hods, reading plans, and coordination between job and nursery in order to execute installation correctly and in a timely n
- The Landscape Contractor shall provide a competent English-speaking Foreman on the project at all times, who shall be fully authorized as the Contractor's agent on the work. The Foreman shall be capable of reading and throughly understanding the Plans, Specifications and other Contract Documents. If the Superimendent is deemed incompetent by the Landscape Architect, he (the superintendent) shall be immediately replaced.
- The Landscape Contractor shall be available for any meetings with the Owner and/or Landscape Architect during implementation of the job. Any additional work or changes required as a result of failure to communicate with the Owner or Landscape Architect during implementation will be the responsibility of the Landscape Contractor. C

PROTECTION OF PUBLIC AND PROPERTY: 1.06

The Landscape Contractor shall protect all materials and work against injury from any cause and shall provide and maintain all necessary safeguards for the protection of the public. He shall be held responsible for any damage or injury to persons or property which may occur as a result of his fault or negligence in the execution of the work, i.e. damage to underground pipes or cables.

1.07 CHANGES AND EXTRAS-

The Contractor shall not start work on any changes or "extras" in the project until a written agreement setting forth the adjusted prices has been executed by the Owner and the Contractor. Any work performed on changes or "extras" prior to execution of a written agreement may or may not be compensated for by the Owner at his discretion.

1.08 GUARANTEE:

- The Landscape Contractor shall furnish a written guarantee warranting all materials, workmanship and plant materials, except sod, for a period of 18 MONTHS from the time of completion and acceptance by the Landscape Architect and Owner. Sod shall be guaranteed to 90 calendar days after acceptance by the Landscape Architect and Owner. All plant material shall be alive and in satisfactory condition and growth for each specific kind of plant at the end of the guarantee period. The guaranteeing of plant material shall be construed to mean complete and immediate replacement with plant material of the same variety, type, size, quality and grade as that of the originally specified material. During the guarantee period it shall be the Landscape Contractor's responsibility to immediately replace any dead or unhealthy material as determined by the Landscape Architect. The guarantee will be null and void if plant material is damaged by lighthing, hurricane force which, or any other acts of God, as well as vandalism or lack of proper maintenance.
- At the end of the specified guarantee period, any plant required under this contract that is dead or not in satisfactory condition, as determined by the Landscape Architect, shall be replaced. The Landscape Contractor shall be responsible for the full replacement cost of plant materials for the first replacement and share subsequent replacement (s) costs equally with the Owner, should the eplacement plant fail to survive

CARE AND MAINTENANCE 1.09

- The Landscape Contractor shall be responsible for the care and maintenance of all plant materials and irrigation when applicable until final acceptance by the Owner or Landscape Architect.
- The Owner agrees to execute the instructions for such care and maintenance

1.10 SAFETY

- Ut shall be the responsibility of the Landscape Contractor to protect all persons from injury and to avoid property damage. Adequate warning devices shall be placed and maintained during the progress of the work.
- It shall be the contractor's responsibility to conform to all local, state, and federal safety laws and codes including the Federal Occupational Safety And Health Act (O.S.H.A.).

1.11 CONTRACTOR QUALIFICATION:

- CONTRACTOR QUALIFICATION: The Owner may require the apparent contractor (s) to qualify him/herself to be a responsible entity by furnishing any or all of the following documentary data: 1. A financial statement showing assets and liabilities of the company current to date. 2. A liating of not less than (3) completed projects of similar scope and nature. 3. Permanent name and address of place of business. 4. The number of regular employees of the organization and length of time the organization has been in business under the present arcmoment of the statement of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and length of time the organization has been in business under the present arcmoment of the organization and the organization and length of time the organization has been in business under the organization has been in business arcmoment of the organization has been in business arcmoment

INSURANCE AND BONDING: 1.12

- INSURANCE AND BONDING: The contractor (s) shall submit proof of insurance for this job for the time period that the work is done. The minimum amount of insurance shall be \$300,000.00 per person and \$300,000.00 per aggregate or as required by owner and agreed to in the contract. The successful bidder shall be required to have this coverage in effect before beginning work on the site.
- The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment biligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.
- 1.13 PERMITS AND CERTIFICATES:
- All contractors shall secure and pay for all permits and certificates required for his/her class of work.

PART 2: MARTERIALS

- PLANT MATERIALS
- A complete list of plants is shown on the drawings, including a schedule of quantities, sizes, and such other requirements deemed necessary. In the event discrepancies occur, the specifications on the drawings shall govern.
- Substitutions: Substitutions of plant materials or changes in size or spacing of materials will be permitted ONLY upon writter Substitutions, Substitutions of plant interentas of changes in size of spacing of interentas will be permitted over the point writerin authorization by the Owner or the Landscape Architect. If plant material is not of sufficient size to meet applicable codes, a letter of variance from the appropriate agency must be obtained by the Contractor prior to issuance of any change order. If material of smaller size is to be accepted, the quantity of material shall be increased, at no additional cost to the Owner, to meet the intent of the
- C All plant materials shall have a habit of growth that is normal for the species and shall be healthy, vigorous and equal to or exceed the rements specified in the plant list, which are the minimum acceptable sizes. Plants shall be measured before pruning with branches in normal position. Any necessary pruning shall be done at the time of planting.
- All plant materials shall be nursery grown, unless otherwise noted, Florida #1 or better and shall comply with all required inspections, grading standards and plant regulations as set forth by the Florida Department of Agriculture's Grades and Standards for Nursery Plants, most current addition and Grades and Standards for Nursery Plants, most current addition.
- Plants that do not have the normal balance of height and spread typical for the respective plant shall not be acceptable.
- The Landscape Contractor shall install each plant to display its best side. Adjustments may be required if plants are not installed properly and/or approved by the Landscape Architect at no additional cost to owne

2.02 INSPECTION

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The Landscape Architect and Owner may inspect trees and shrubs at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size and quality. The Landscape Architect and Owner retain the right to further inspect trees and shrubs for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Rejected plant materials shall be immediately removed from project site

PROTECTION OF PLANT MATERIALS:

- Balled and burlapped plants (B & B) shall be dug with firm natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Balls shall be firmly wrapped with burlap similar materials and bound with cord, rope, or wire mesh. All collected plants shall be balled and burlapped.
- Plants with broken, damaged or insufficient rootballs will be rejected.
- All plant material shall be protected from possible bark injury or breakage of branches. All plants transported by open trucks shall be ately covered to prevent windburn, drying or damage to plants
- Plants which cannot be planted immediately on delivery to the site shall be covered with moist soil, mulch or other protection from the drying of wind and sun. All plants shall be watered as necessary by the Landscape Contractor until planted.
- STORAGE All plant materials shall be stored on the site in designated areas, specified by the Landscape Architect or Owner's agent,
- No plant material shall be stored longer than seventy-two (72) hours unless approved by Landscape Architect and/or owner.
- The Landscape Architect reserves the right to reject any plant materials not in conformance with these specifications
- All rejected material shall be immediately removed from the site and replaced with acceptable material at no cost to the Owner. PROTECTION DURING PLANTING:
- Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of burlap, wood battens or other approved methods. Battens shall NOT be attached to the tree with nails

TOP SOIL

- Planting soil for all plantings shall consist of topsoil and be natural, friable, fertile, fine loamy soil possessing characteristics of r raining son for an paining start or topoor and be nature, induce, reture, inter both your possibility of the project site that produces heavy growth. Topool shall have a PH range of 5.5-7.4, free from subsoil, weeds, litter, sods, clay, stones, stumps, roots, trash, herbicides, toxic substances, or any other material which may be harmful to plant growth, or hinder planting operations. Topool shall contain a minimum of 3% organic material. Topsoil must percolate water at a rate of 1" per hour (See also drainage testing detail for trees)
- Landscape Area Preparation. The intent of this section is to ensure a healthy growing environment for all planting material in all Indicaped areas. Landscape Contractor to examine existing solits prior to planting to ensure conformance to all definitions of "Topsoil" (seeLandscape Area Preparation Detail); In addition, a 3" layer of high organic (min 40%) potting soil shall be added to the topsoil and mixed in at time of planting. *East Coast Recycling Inc.* is a recommended source for imported Topsoil (if needed) as well as the top 3" layer of potting soil

Existing soils must meet <u>all</u> definitions of 'Topsoil' as described above in <u>all</u> planting areas throughout the site. If existing soils do not meet all definitions of Topsoil, please refer to the 'Landscape Area Preparation' detail. Examination may require existing soils to be tested by an accredited testing laboratory. Should a soil test be necessary, Contractor shall contact soil testing lab directly to confirm such ab's soil collection and transmit protocol; all costs if any shall be home by the Contractor. Contractor shall provide to Landscape Architect for review the results of the soil test if conducted. Contractor shall schedule an on-site meeting with Landscape Architect to review existing and/or imported soils prior to planting. The Landscape Area Preparation is the responsibility of the Landscape Contractor. He/she shall except all responsibility of planting shall be home and all guarantee items in section 1 08

FERTILIZER

Commercial fertilizer shall comply with the state and local fertilizer laws. Nitrogen shall not be less than 40% from organic source. Inorganic chemical nitrogen shall not be derived from the sodium form of nitrate. Fertilizers shall be delivered to the site in unopened orginal containers, each bearing the manufacturer's guaranteed analysis. Any fertilizer that becomes caked or otherwise damaged shall be rejected

Thoroughly mixed 3 lbs, of commercial fertilizer to each cubic vard of planting soil

- Tabletized fertilizer shall be Agriform planting tablets 20-10-5 formula, 21 gram or equal. All trees and shrubs shall be fertilized with rabilitized relations and be equivalent planting tables 201005 forman, 21 grant or equal, but tees and sinces shall be related with tabletized fertilizers as follows. While backfilling plant holes, fertilizer tablets shall be equally spaced and placed adjacent to the ball mid-way in depth in accordance with the following rates:
 - 1 gallon container 1 tablet 3 gallon container 2 tablets 5 gallon container 3 tablets 7 gallon container 5 tablets

Large tubs, wire baskets, grow bags, and balled and burlapped material shall have 1 tablet for each 1/2 inch of trunk diameter (measured 3 feet from ground) or for each foot of height or spread of larger shrub material. The Landscape Architect reserves the right to inspect and review the application of fertilizer.

MULCH

- Mulch material shall be clean, dry, free of weeds, seeds and pests, moistened at the time of application to prevent wind displacement. Cypress &/or Red mulch is prohit
- All trees and shrub beds shall receive 3" mulch immediately after planting and thoroughly watered. Apply 2" max on tree & palm rootballs, keep 6" away from tree & palm trunks or as required by local jurisdiction

PART 3 EXECUTION

EXECUTION DIGGING: The Landscape Contractor shall exercise care in digging and other work so as not to damage existing work, including overhead wires, underground pipes and cables and the pipes and hydrants of watering systems. Should such overhead or underground obstructions be encountered which interfere with planting, the Owner shall be consulted and contractor will adjust the location of plants to clear such attraction. The Contractor shall be responsible for the immediate repair of any damage caused by his work.

- GRADING Grading for drainage, swales, etc. to within 4 inches of the finished grade to be provided by other
- It shall be the responsibility of the Landscape Contractor to provide the final grading during the course of landscape installation so as to bring sod and planting areas to their proper elevations in relation to walks, paving, drain structures, and other sile conditions. The site grading plan must be checked prior to installation of sod to insure that drainage and other conditions will NOT be modified.
- 3.03 PLANTING: Planting shall take place during favorable weather conditions.
 - The Contractor shall call for utility locates and ascertain the location of all utilities and easements so proper precautions can be taken ot to damage or encroach on th
 - Tree Planting shall be located where it is shown on the plan. No planting holes shall be dug until the proposed locations have been staked on the ground by the Contractor
 - Excavation of holes shall extend to the required subgrades as specified on the planting diagrams located in the landscape plans. Plant pits shall be circular in outline and shall have a profile which conforms to the aforementioned "Tree and Shrub Planting Diagrams".
 - A representative number of planting pits (a minimum of one in every 25 feet throughout the entire site) shall be tested for proper drainage. See Landscape Details for complete testing methods and requirement
 - Planting pits shall be excavated to the following dimensions and backfilled with Topsoil- see Landscape Area Preparation Detail; Planting pits shall be excavated to the following 1 Gallon material (1 gal.): 12" x 12" x 12" min. 3 Gallon material (3 gal.): 20" x 20" x 18" min. Lerio material (7 gal.): 30" x 30" x 24" min.

 - Field grown material and trees: 1-1/2 times width of ball and depth of ball plus 12" min.
- No planting or laving of sod shall be initiated until the area has been cleaned of existing sod or other plant materials, rough grass weeds, debits, stones etc. and the ground has been brought to an even grade, with positive drainage away from buildings and towards drain inlets and swales and approved by Landscape Architect or owner's rep.
- Each plant shall be planted in an individual hole as specified for trees, shrubs, and vine

- All plants shall be set to ultimate finished grade. No filling will be permitted around trunks or stems. All ropes, wire, stakes, etc., shall be removed from sides and top of the ball and removed from hole before filling in.
- All flagging ribbon shall be removed from trees and shrubs before planting.
- All palms shall be backfilled with sand, thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line for future watering's. Saucer areas shall be top-dressed two (2") inches deep with topsoil raked and left in a neat, clean

PRUNING

- and spread as possible in a manner which will preserve the plant's natural charact
- Make all cuts with sharp instruments flush with trunk or adjacent branch, in such a manner as to insure elimination of stubs. Cuts nade at right angles to line of growth will not be permitte
- Trees shall not be poled or topped.
- Remove all trimming from site

GUYING

WATER

written approval to do so.

stones, and other debris

borders to allow for building tur

CLEANING UP

MAINTENANCE

Contracto

entire surface and thoroughly washed in.

then apply fertilizer at a rate of 500 lbs. per acre

seed mixtures shall be applied per the manufacturer's instru

COMPLETION, INSPECTION AND ACCEPTANCE:

Specifications at the time of final inspection and acceptance.

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- All trees over six (6') feet in height shall, immediately after setting to proper grade, be guyed with three sets of two strands, No. 12 gauge malleable galvanized iron, in tripod fashion. See Detail.
- shall be fastened in such a manner as to avoid pulling crotches apart
- tight guy wires.

Excess excavation (fill) from all holes shall be removed from the site, at no additional expense to Owner

Remove dead and broken branches from all plant material. Prune to retain typical growth habit of individual plants with as much height

Wires shall not come in direct contact with the tree but shall be covered with an approved protection device at all contact points. Wires

Stake & Brace all trees larger than 12' oa. See detail. Stakes shall be 2" x 2" lumber of sufficient length to satisfactorily support each

Turnbuckles for guying trees shall be galvanized or cadmium plated and shall be of adequate size and strength to properly maintain

Each plant for tree shall be thoroughly watered in after planting. Watering of all newly installed plant materials shall be the responsibility of the Landscape Contractor until final acceptance by the Landscape Architect.

Prior to installing any irrigation system components, the contractor shall obtain a water sample from the proposed water supply and conduct a particle size and count analysis on the sample using the services of a reputable tab certified in such analysis. Submit the test results to the owner/owner's representative for review and approval. Do not proceed further with system installation until given

The Landscape Contractor shall sod all areas indicated on the drawings.

It shall be the responsibility of the Landscape Contractor to fine grade all landscape areas, eliminating all bumps, depressions, sticks,

The sod shall be firm, tough texture, having a compacted growth of grass with good root development. It shall contain no noxious weeds, or any other objectionable vegetation, fungus, insects, or disease. The soil embedded in the sod shall be good clean earth, free from stones and debris.

Before being cut and lifted, the sod shall have been mowed at least three times with a lawn mower, with the final mowing not more than seven days before the sod is cut. The sod shall be carefully cut into uniform dim

6-6-6 fertilizer with all trace elements is to be applied at the rate of 40 lbs. per 1,000 sq. ft. prior to laying sod.

Solid sod shall be laid with closely abutting, staggered joints with a tamped or rolled, even surface

The finished level of all sod areas after settlement shall be one (1") inch below the top of abutting curbs, walks, paving and wood

If in the opinion of the Landscape Architect, top dressing is necessary after rolling, clean yellow sand will be evenly applied over the

The Landscape Contractor shall remove all vegetation and rocks larger than (1") in diameter from areas to be seeded, scarify the area,

Application: Argentine Bahia Grass seed- 200 Pounds per acre mixed with common hulled Bermuda seed- 30 lbs, per acre. All other

Roll immediately after seeding with a minimum 500 pound roller, then apply straw mulch at the rate of 2,500 pounds per acre.

Apply fertilizer at the rate of 150 lbs. per acre 45-60 days after seeding

The contractor shall at all times keep the premises free from accumulations of waste materials or rubbish caused by his employees or work. He shall leave all paved areas "broom clean" when completed with his work.

Maintenance shall begin immediately after each plant is installed and shall continue until all planting has been accepted by the Owner or Landscape Architect. Maintenance shall include watering, weeding, removal of dead materials, resetting plants to proper grades or upright positions, spraying, restoration of planting saucer and/or any other necessary operations.

Proper protection to lawn areas shall be provided and any damage resulting from planting operations shall be repaired promptly.

Replacement of plants during the maintenance period shall be the responsibility of the Contractor, excluding vandalism or damage on the part of others, lighting, or hurricane force winds, until final acceptance.

In the event that weeds or other undesirable vegetation become prevalent, it shall be the Contractor's responsibility to remove them.

Trees or other plant material which fall or are blown over during the maintenance period will be reset by the Contractor at no additional expense to the Owner, the only exception being hurricane force winds

Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed or implied in the Drawings and in the Specifications, including the complete removal of all trash, debris, soil or other waste created by the Landscape

Inspection of work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Owner and/or Landscape Architect at the conclusion of all planting and at the request of the Landscape Contractor.

All plant material shall be alive and in good growing condition for each specified kind of plant at the time of acceptance. The rating of each plant according to Florida Grades and Standards shall be equal to or better than that called for on the plans and in these

After inspection, the Landscape Contractor will be notified by the Owner of the acceptance of all plant material and workmanship, replacement of plants subject to guarantee.

All trees & shrubs shall be straight and in correct position per the landscape plans, details and specifications. All nursery, shipping and identification tags & ribbons shall be removed from trees & shrubs immediately after planting.



Land Planning / Landscape Architecture 701 E Ocean Blvd., Stuart, Florida 34994 . (772) 220.2100 Eav (772) 223.022



Project Team:

Client Indian River County 840 25th Street /ero Beach, FL 32960 Etienne B. Bourgeois, P.E.

Civil Engineer Arcadis Hank Deibel, P.E. 2018 Vista Parkway West Palm Beach, FL 33411 P: 561.697.7000

Landscape Architect homas P. Lucido, R 00 Avenue A, Suite 2 ort Pierce, FL 34950 2: 772.467.1301

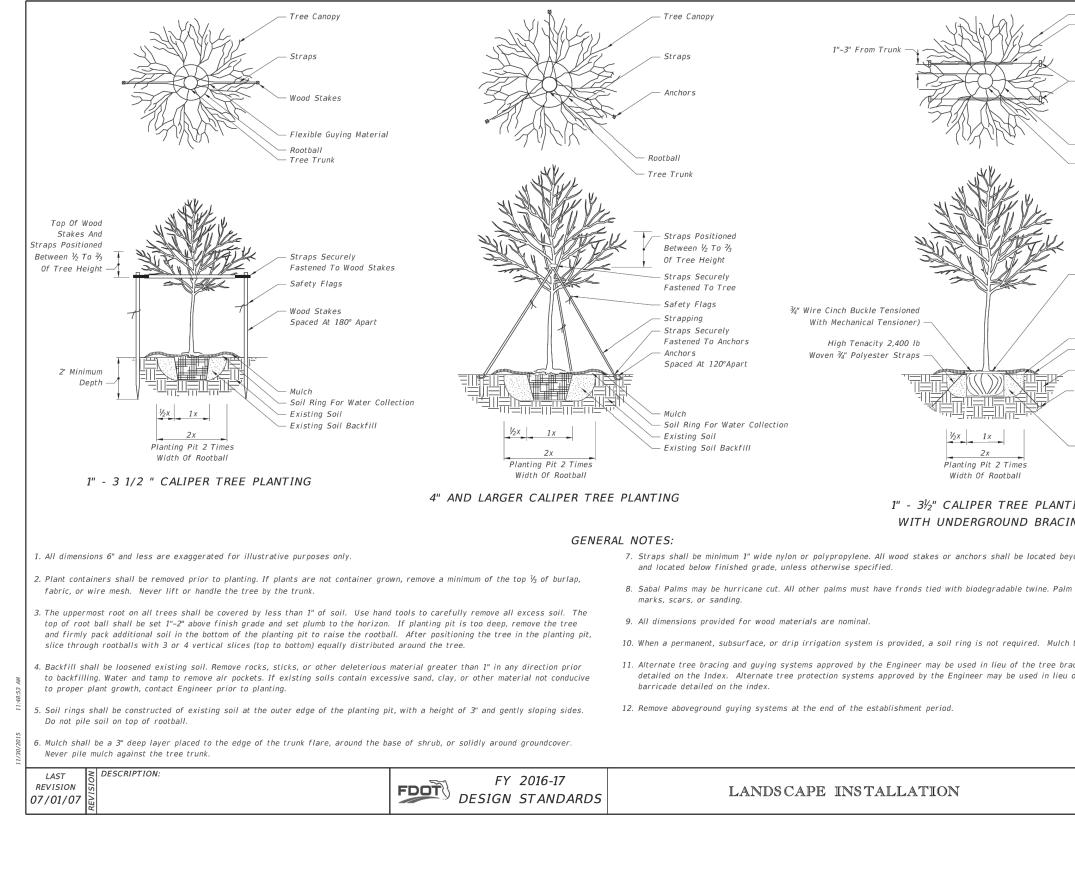
Irrigation Consultant Mesuen Consulting, LLC Masuen Consulting, LLC 5079 N. Dixie Highway # Oakland Park, FL 33334 P: 866.9278.1533 x 114

66th Avenue Phase 1A

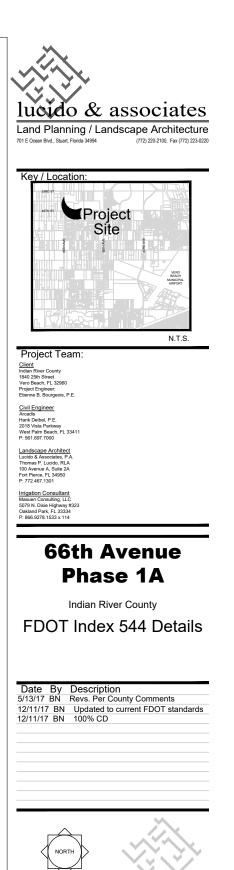
Indian River County

Landscape Specifications

	escription
	evs. Per County Comments
	Jpdated Specifications
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SCALE: 1"	= NTS
	BEG. # 1018
0 0 0	0 Thomas P. Lucido
Designer	KV Sheet
Manager	
Project Number	^{BN} 16 of 19
Municipal Number	
Computer File	16-260 66thAve RoadwayLandscapeCurre
Computer File	10-200_00inAve_RoadwayLandscapeCurre



— Tree Canopy
— Cross-Braces
— Anchors
— Rootball
— Tree Trunk
— Two 2x4 Wood Cross-Braces (Length Not To Exceed Rootball Diameter) Placed Over Rootball On Each Side of Trunk, 1"-3" From Trunk
— Soil Ring For Water Collection — Mulch
— Existing Soil
– Anchors (4 – Min. 500 lb Rated Anchors) Anchors Installed At 3' – 5' Depth Into Undisturbed Soil With Strap At 45° Angle
— Existing Soil Backfill
'ING NG
yond the edge of soil ring
n trunks shall have no burn
to edge of planting pit.
acing and guying methods of the tree protection
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REG. # 1018

Thomas P. Lucido

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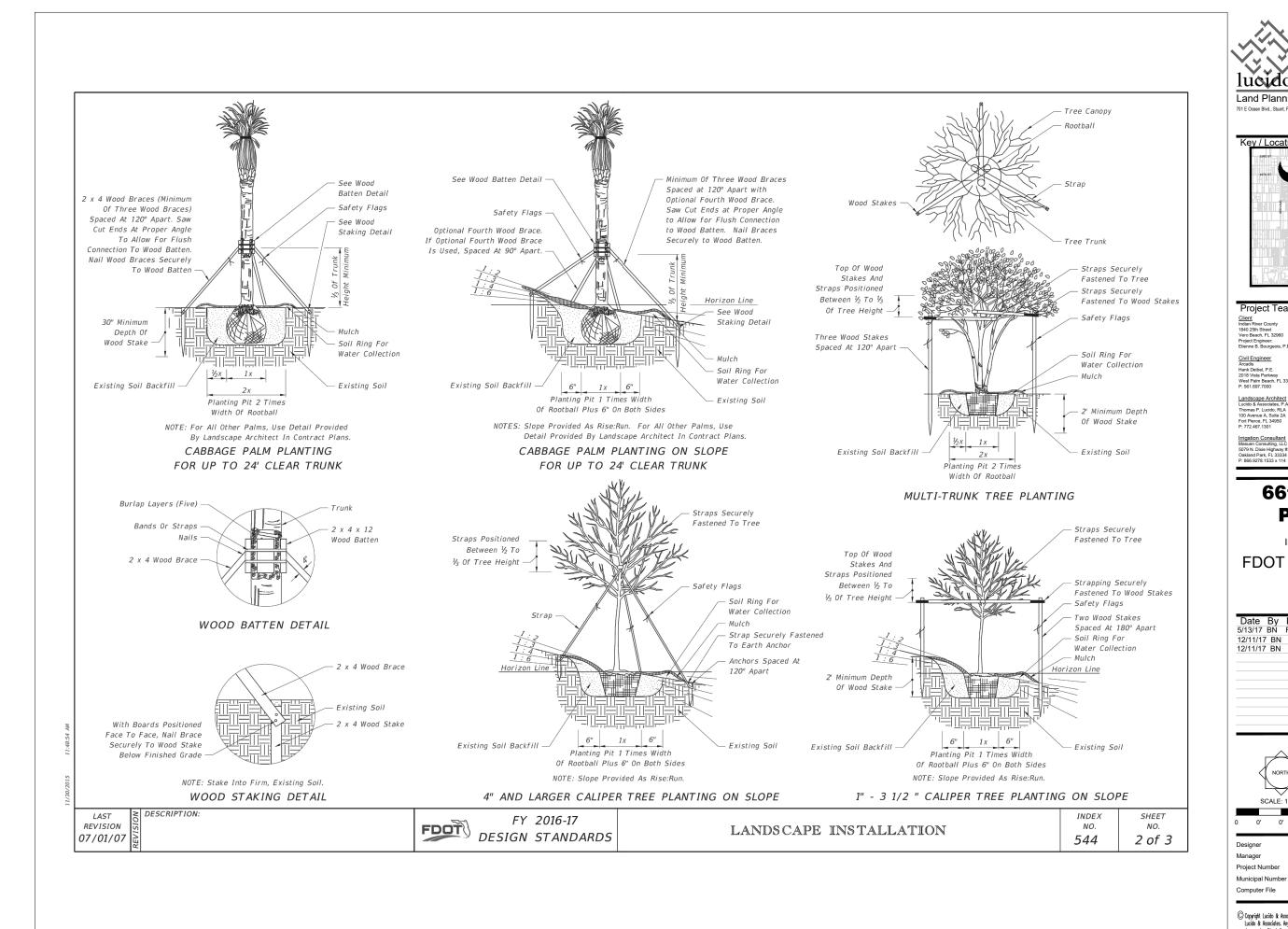
SCALE: 1" = NTS

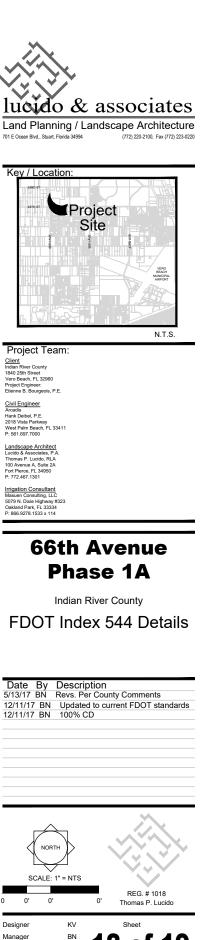
Designer Manager

Project Number

Computer File

Municipal Number





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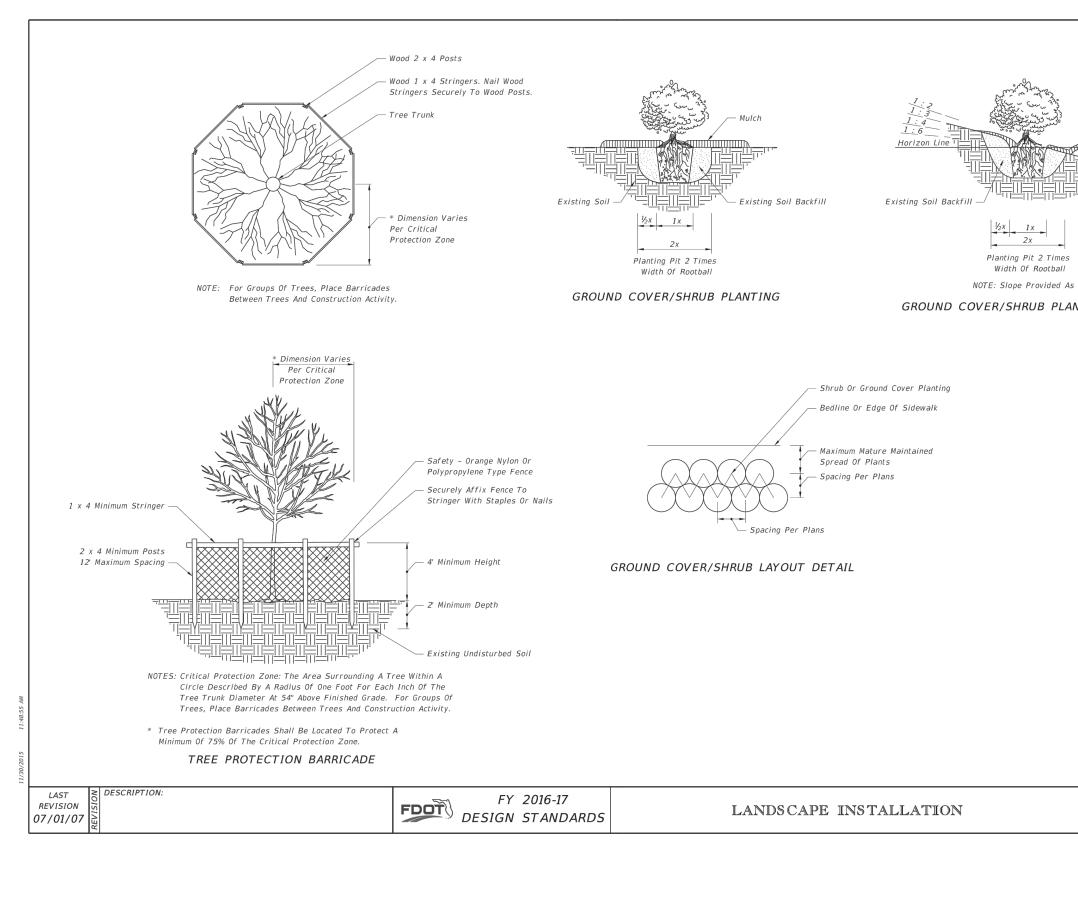
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Mulch Soil Ring For Water Collection Existing Soil	
s Rise:Run. ANTING ON SLOPE	
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