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## **GENERAL LANDSCAPE NOTES**

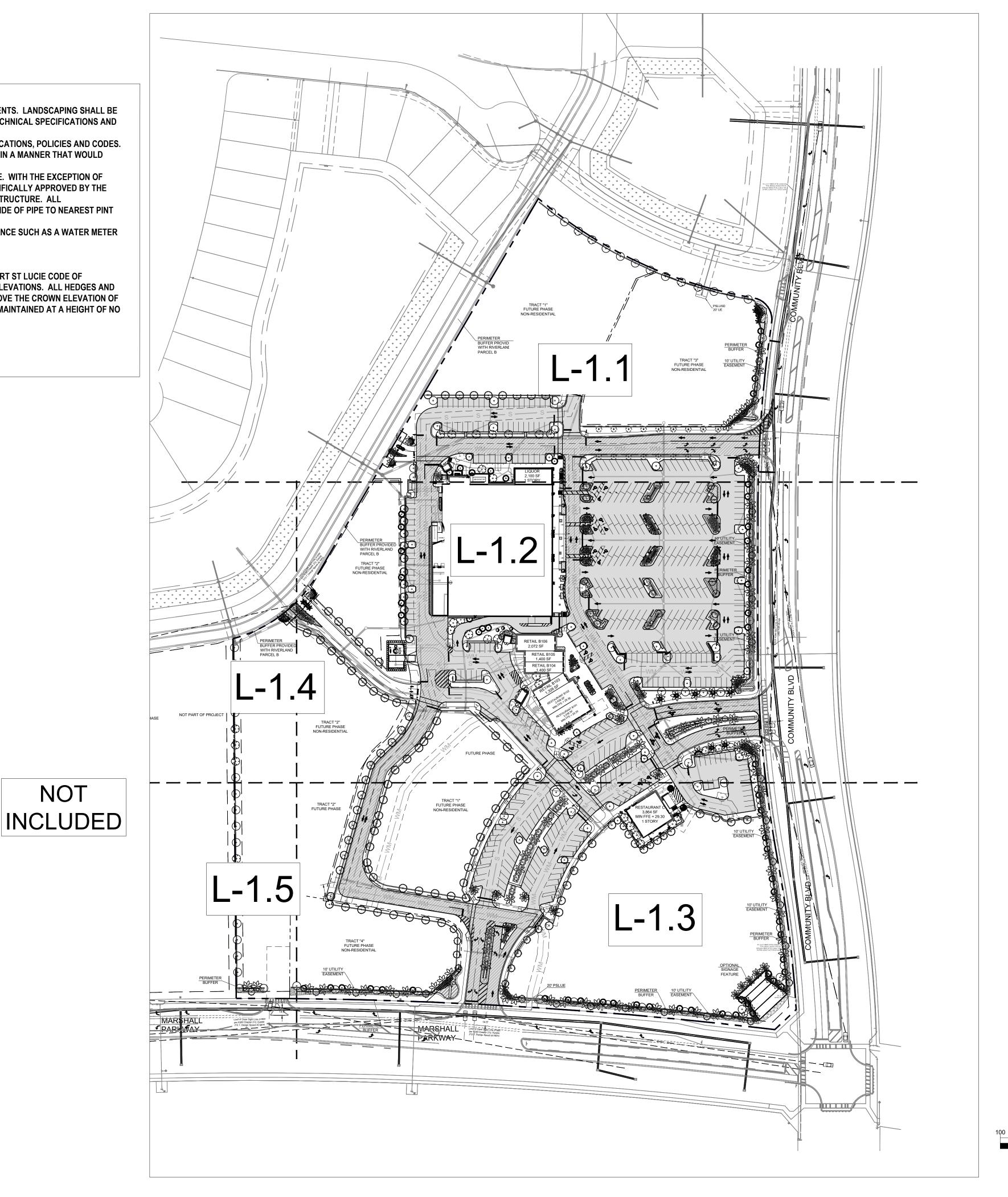
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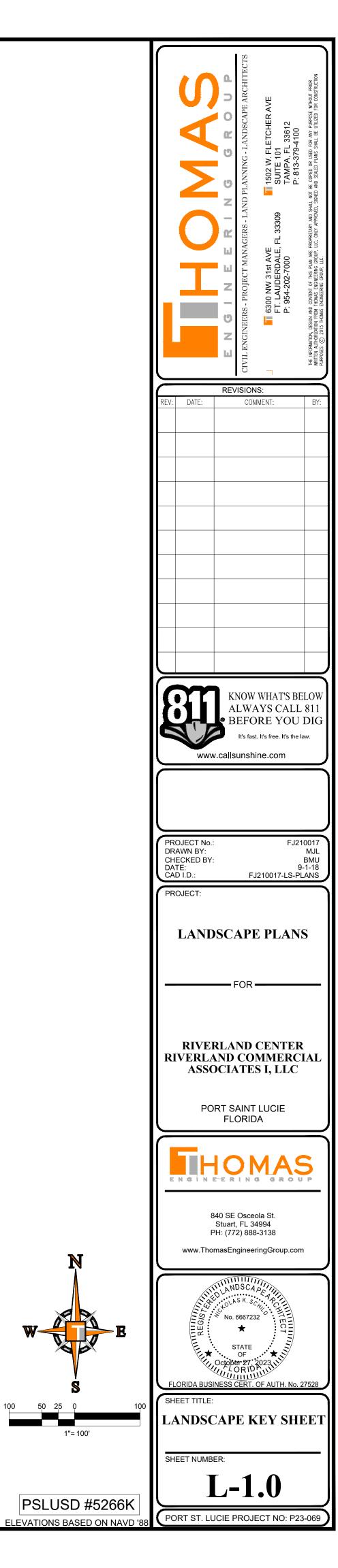
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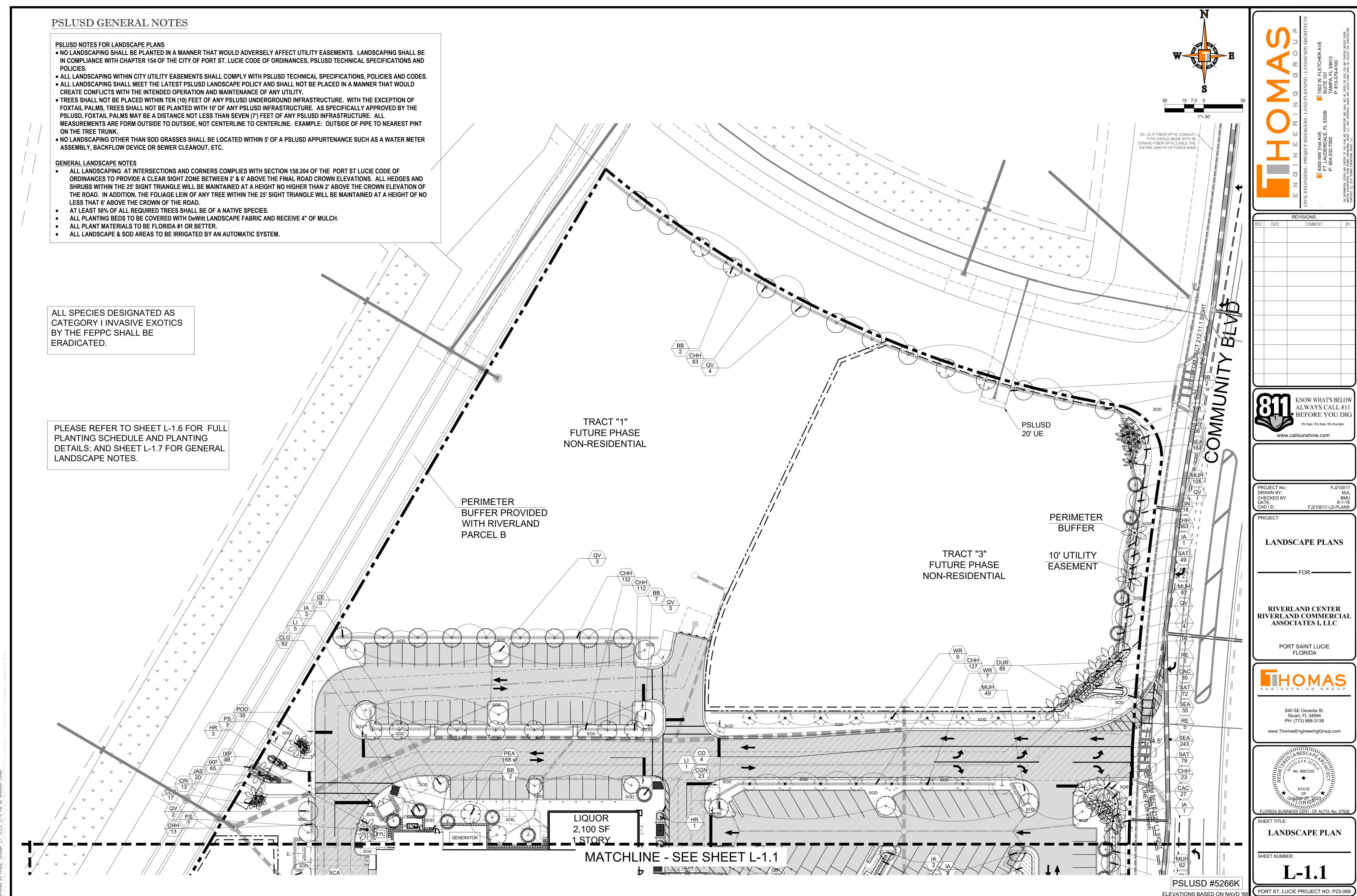
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- ALL PLANTING BEDS TO BE COVERED WITH DeWitt LANDSCAPE FABRIC AND RECEIVE 4" OF MULCH.

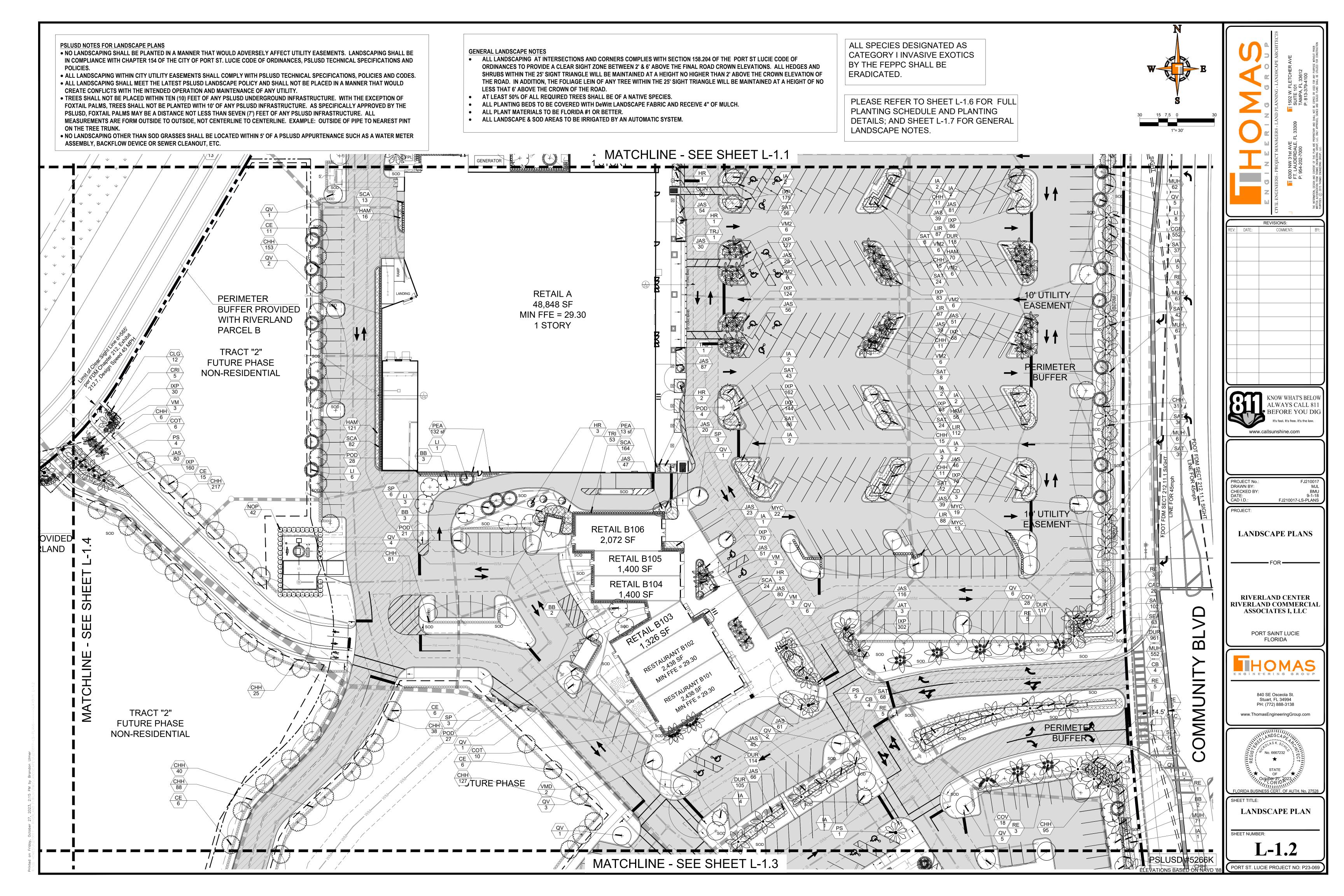
CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY UTILITY.

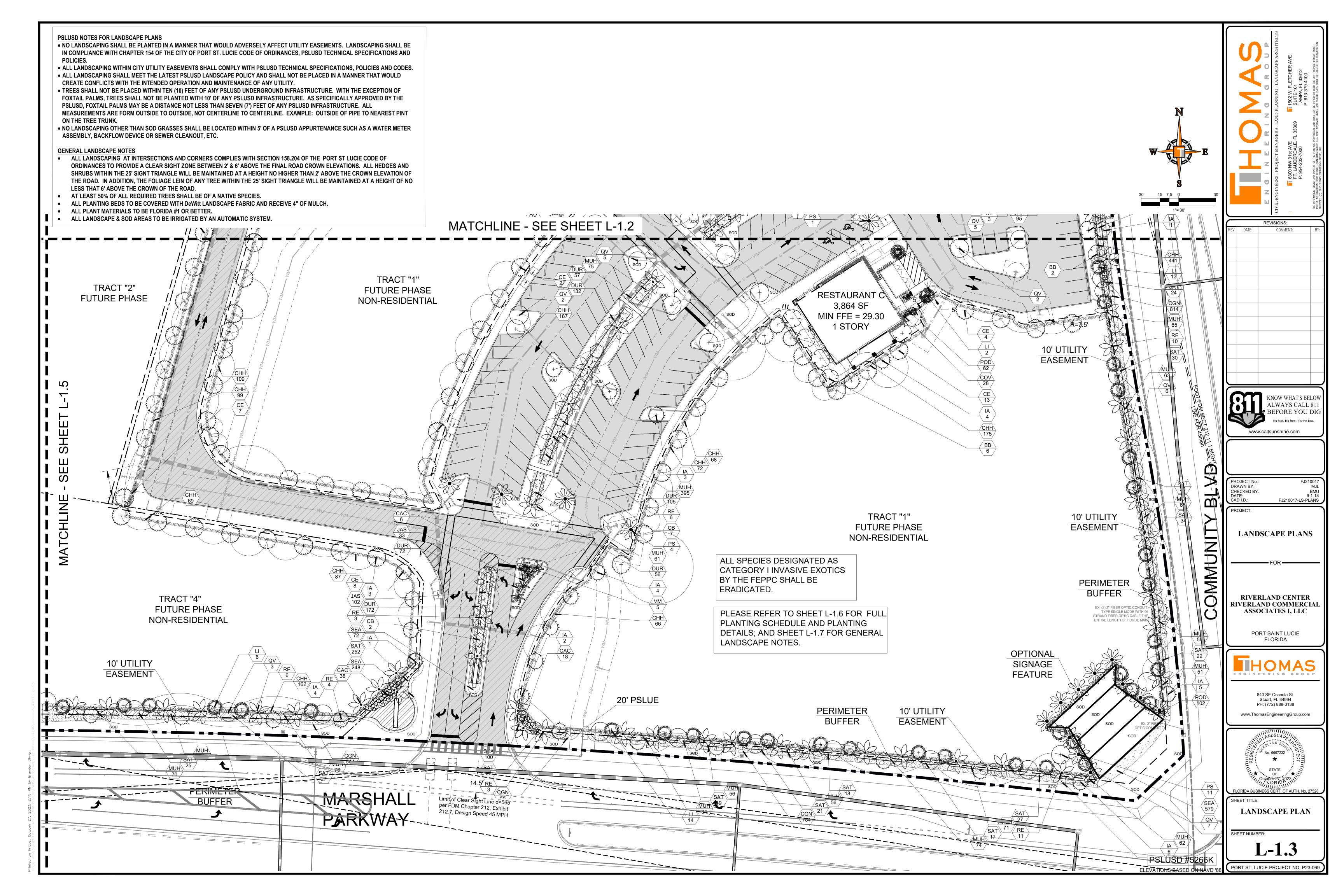
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- ALL LANDSCAPE & SOD AREAS TO BE IRRIGATED BY AN AUTOMATIC SYSTEM.











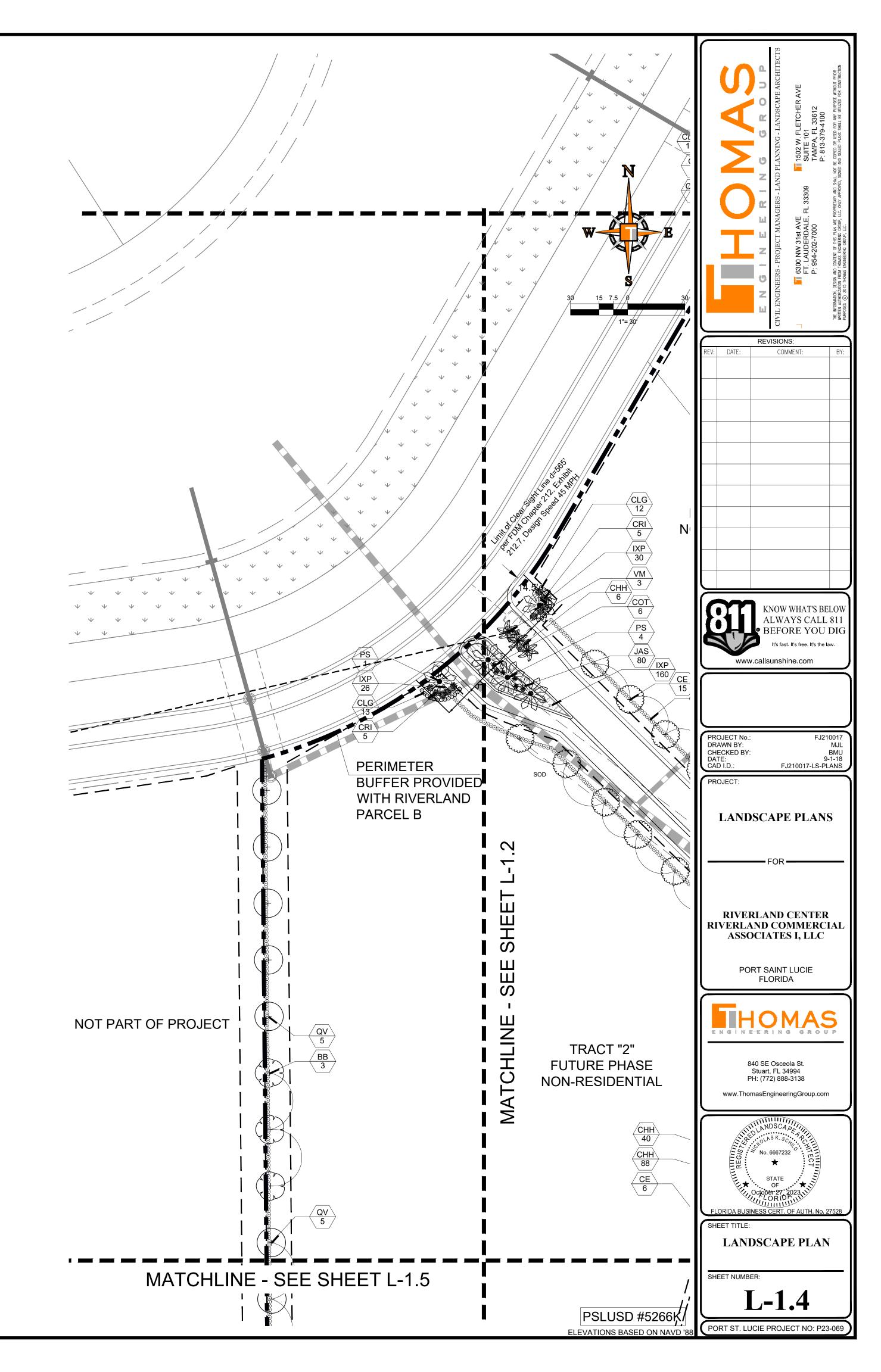
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ALL SPECIES DESIGNATED AS CATEGORY I INVASIVE EXOTICS BY THE FEPPC SHALL BE ERADICATED.

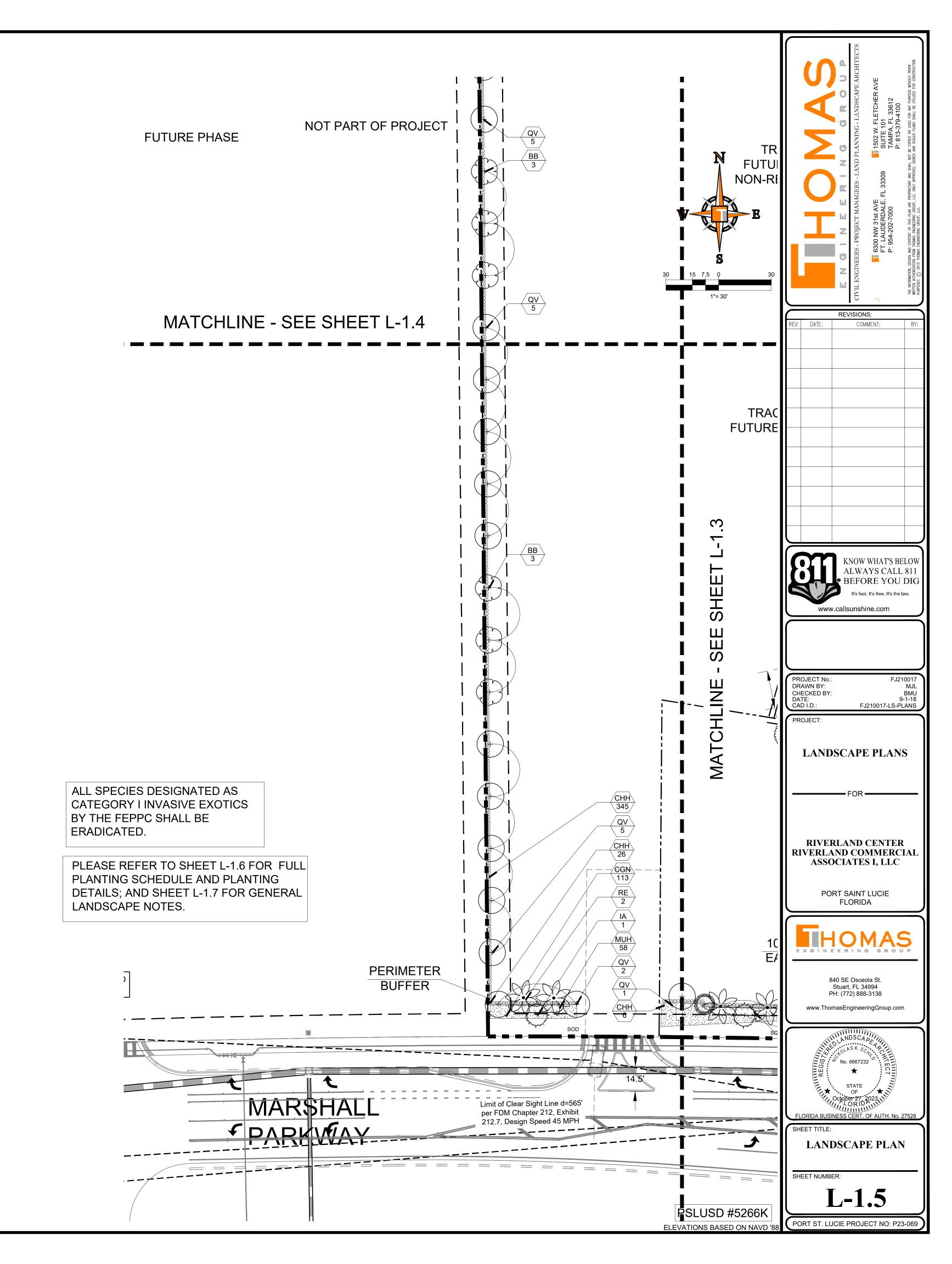
PLEASE REFER TO SHEET L-1.6 FOR FULL PLANTING SCHEDULE AND PLANTING DETAILS; AND SHEET L-1.7 FOR GENERAL LANDSCAPE NOTES.

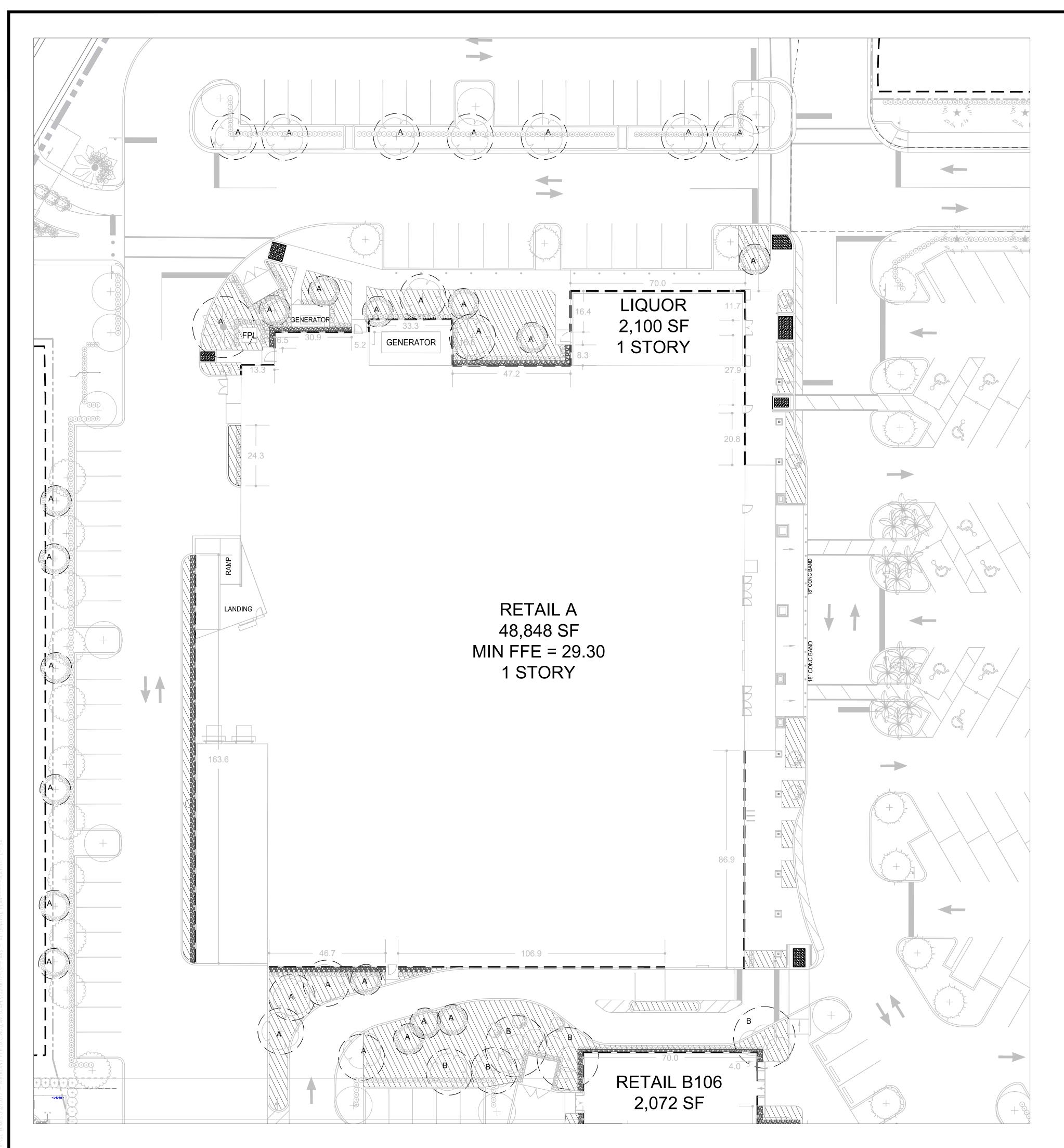


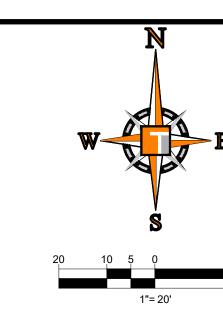
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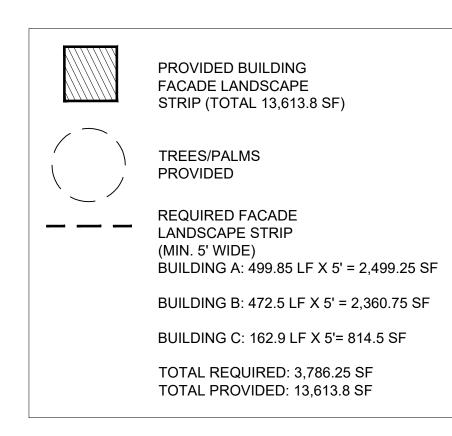
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<u> </u>	CIE LAND DEVEL	OPMENT C	ODE		
WN CENTER - ALTERN	IATIVE BUILDING FA	ÇADE			
SEC. 154.03.C.2				REQUIRED	PROVIDED
Building Façade					
Required at perimeter visible	e to the general public with:		30 If		
		1 shrub/2 If			
		RETAIL	A: 717.5'		
				3,587.5 sq. ft.	5,344.17 sq. ft
				24 TREES	24 TREES
				359 SHRUBS	COMPLIES
		RETAIL B:	472.15 LF		
				2,360.75 sq. ft.	5,705.85 sq.ft.
				16 TREES	16 TREES
				237 SHRUBS	COMPLIES
		Restaurant	C: 228.2 lf		
				1,141 sq.ft.	2,111.8 sq. ft.
				8 TREES	8 TREES
				115 SHRUBS	COMPLIES
SEC. 154.03.C.3.b					
5' landscape str	p between a building and loa	ading space with:			
		1 tree/30 If			
		1 shrub/2 If			
	Loading I	Building A: 162.90	)'	814.5 sq ft	911.31 sq ft
				6 TREES	6 TREES
				82 SHRUBS	COMPLIES
			TOTAL	54 TREES	54 TREES



REV:	DATE:	COMMENT:	BY:

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JECT No.:	FJ210017
WN BY:	MJL
CKED BY:	BMU
É:	9-1-18
I.D.:	FJ210017-LS-PLANS -
	ALTERNATIVE PLAN

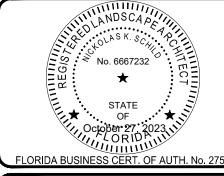
LANDSCAPE PLANS

RIVERLAND CENTER RIVERLAND COMMERCIAL ASSOCIATES I, LLC

PORT SAINT LUCIE FLORIDA



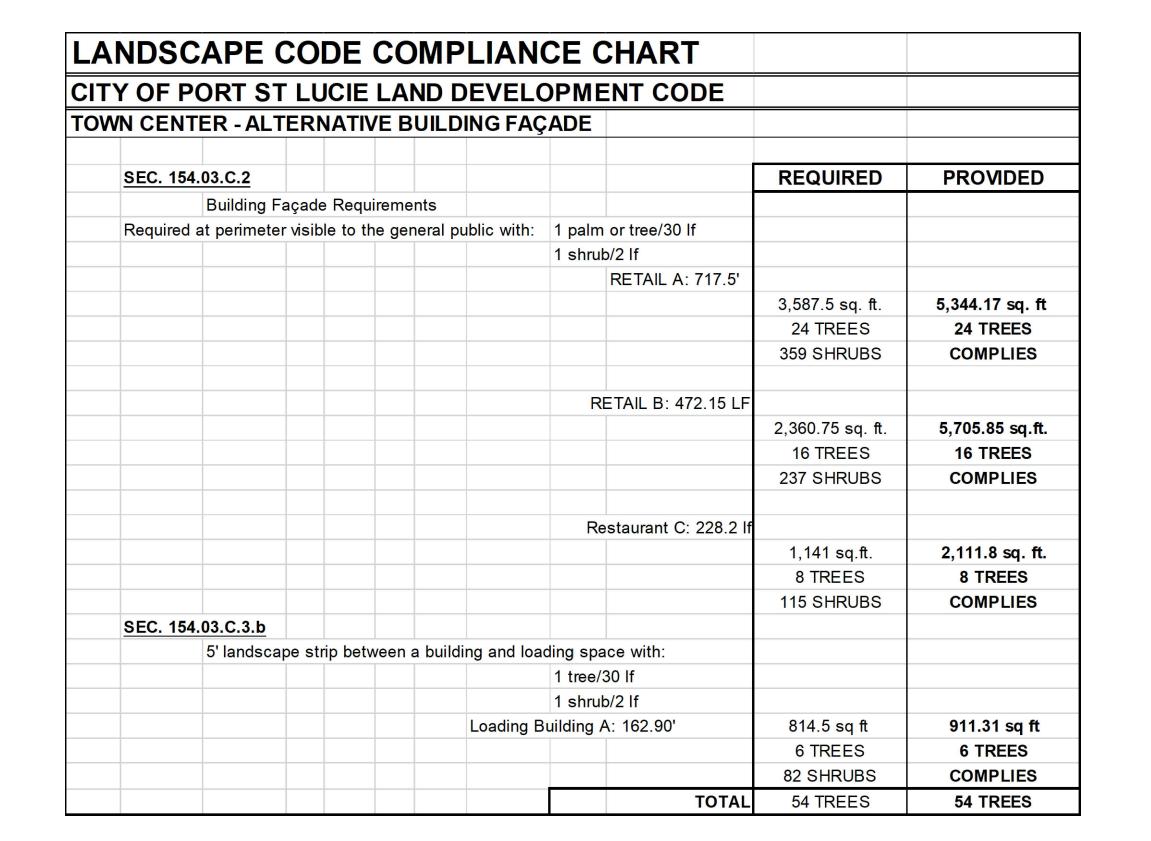
840 SE Osceola St. Stuart, FL 34994 PH: (772) 888-3138 www. Thomas Engineering Group.com

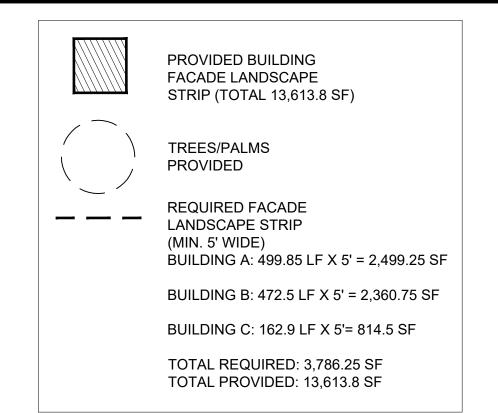


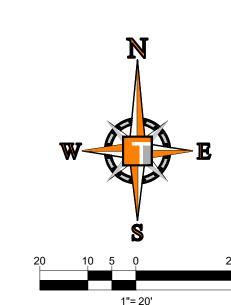
**ALTERNATIVE COMPLIANCE PLAN BUILDING A** 

L-1.5A PORT ST. LUCIE PROJECT NO: P23-069

PSLUSD #5266K ELEVATIONS BASED ON NAVD '88









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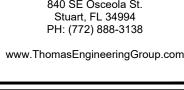
OJECT No.: FJ210017
AWN BY: MJL
ECKED BY: BMU
TE: 9-1-18
D I.D.: FJ210017-LS-PLANS ALTERNATIVE PLAN

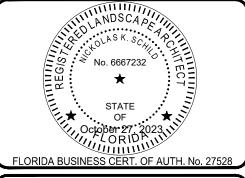
LANDSCAPE PLANS

RIVERLAND CENTER RIVERLAND COMMERCIAL ASSOCIATES I, LLC

> PORT SAINT LUCIE FLORIDA



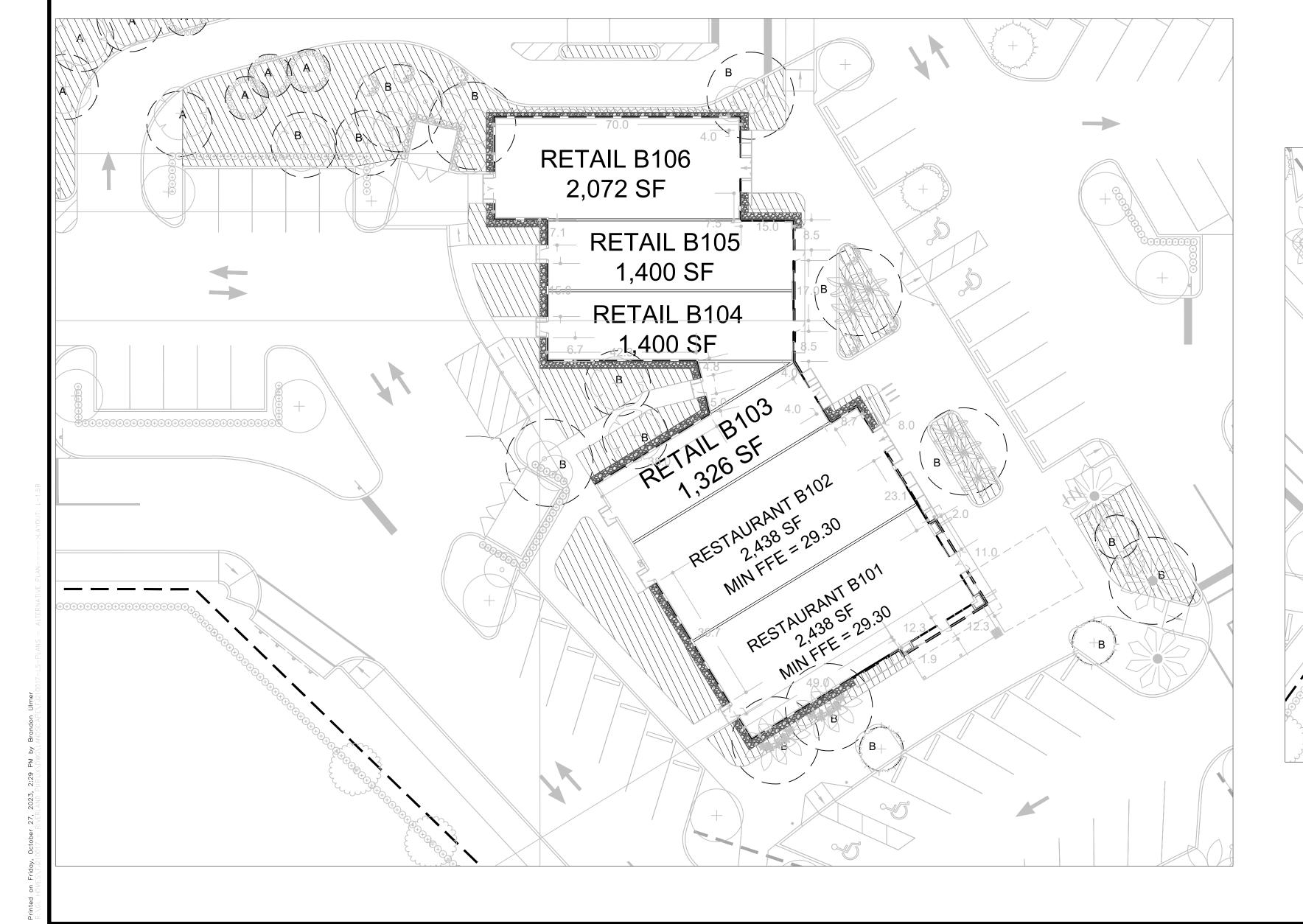


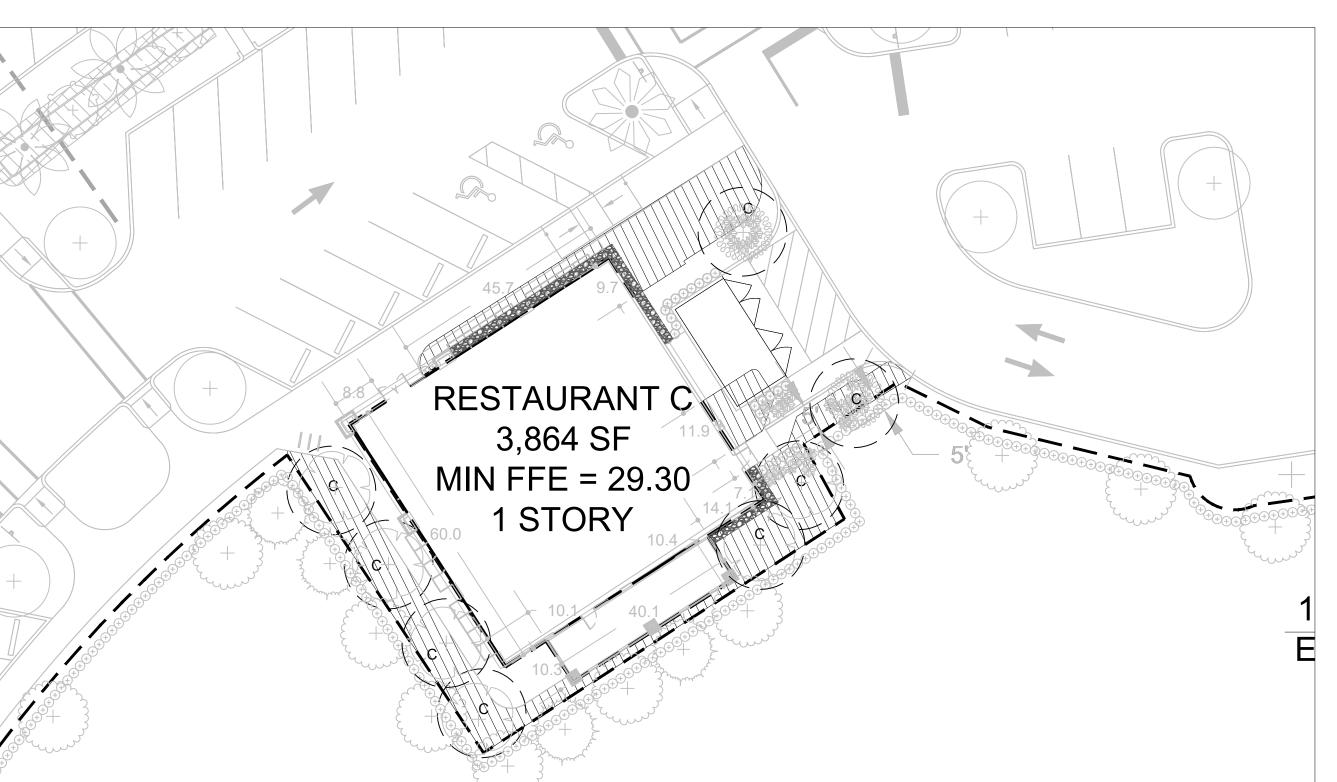


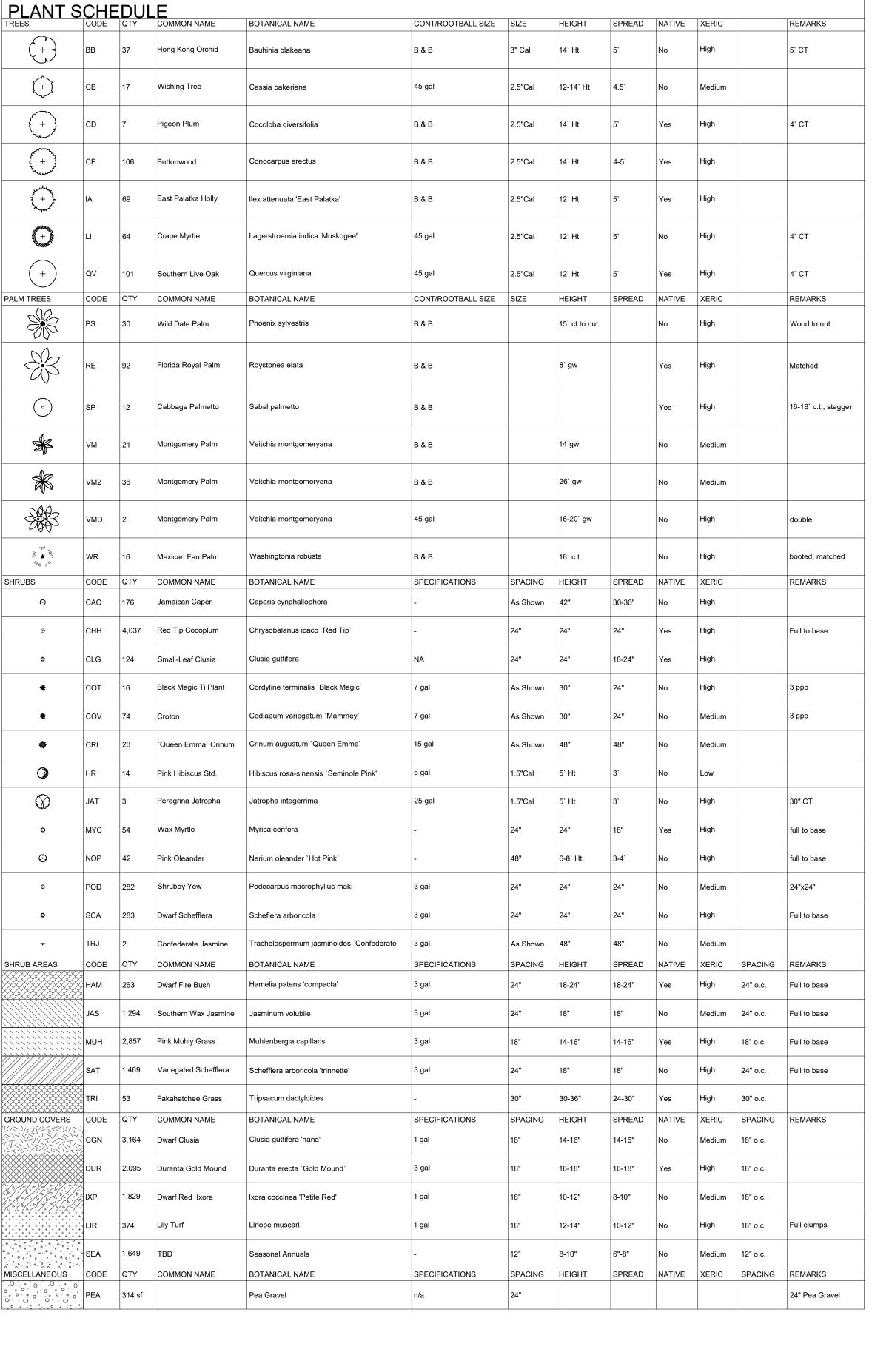
SHEET TITLE:
ALTERNATIVE
COMPLIANCE PLAN
BUILDING A,B,C

L-1.5B

PORT ST. LUCIE PROJECT NO: P23-069







A TOTAL OF 365 TREES ARE REQUIRED AND 41 TREES FROM 13 PALMS @ 1:1 AND 28 PALMS @ 3:1.

ADDITIONAL PALM TREES ARE PROPOSED FOR ACCENT PURPOSES ON SITE.

METAL STRAPS SECURING

2"x4"x12" WOOD BATTENS

•MIN 5 LAYERS BURLAP

TOE NAIL BRACES TO 2"X4" WOOD BATTENS

\_\_1/2"x2' FLUORESCENT ORANGE MARKER

2"x4" WOOD BRACE

→3" BASIN FOR WATERING.

→MULCH, 1" DEEP ON ROOT ZONE

SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE.

2"x4"x12" FOOT STAKE, FOR SOFT
SOIL CONDITIONS SUCH AS SAND BURIED 3 FT. BELOW GRADE

BACKFILL WITH PLANTING SOIL.

LARGE PALM PLANTING DETAIL

SHRUB / GROUNDCOVER

SPACING / PLANTING DETAIL

UNTIE BURLAP FROM BASE OF TRUNK.

SPACING VARIES
ACCORDING TO
PLANT LIST
SPECIFICATIONS

FLUORESCENT

ORANGE MARKER -

1" WIDE MIN.
NYLON STRAPS •—

STAKES 18" \_\_

(3 PER TREE)

**BELOW GRADE** 

→ AT EQUAL SPACING (3 PER TREE)

PROPOSED ZONING: MPUD CHAPTER 154 - LANDSCAPING AND LAND CLEARING REQUIRED PROVIDED Sec 154-03 LANDSCAPE DESIGN STANDARDS 101 TREES C.1.a) Perimeter Landscaping: (3,020.75 lf): (1) 14'ht Tree/30' 149 TREES Continuous 24" hedge Max. 25% of required trees shall be pa 25/98 TREES 0/98 TREES East (1,290.7 44 TREES 89 TREES South (960.07 lf): 32 TREES 60 TREES C.2 Building Façade Requirements Required at perimeter visible to the general public with: 1 palm or tree/30 If 1 shrub/2 If (Min. 5' wide) RETAIL A: 499.85' 3,587.5 sq. ft. 5,344.17 sq. ft 24 TREES 24 TREES 359 SHRUBS COMPLIES RETAIL A1,A2,A3,A4 and B: 472.15 LF 2,360.75 sq. ft. 5,705.85 sq.ft. 16 TREES 16 TREES 237 SHRUBS COMPLIES Restaurant C: 228.2 l 1,141 sq.ft. 2,111.8 sq. ft. 8 TREES 8 TREES 115 SHRUBS COMPLIES Max. 25% of required trees shall be palm 10/41 TREES 10/41 TREES (25%) C.3 Vehicular Use Are Reuirements: (1,107.31 lf) a. 10' strip adjacent to VUA with: 1 tree/30 If 117 TREES 117 TREES continuous 24" hedge COMPLIES 3,451.94 lf Max. 25% of required trees shall be palm 10/41 TREES 9/185 TREES (25%) b. 5' landscape strip between a building and loading space with: 1 tree/30 lf 1 shrub/2 If Loading Building A: 162.90' 814.5 sq ft 835.7 sq ft 6 TREES 6 TREES 82 SHRUBS COMPLIES a. Sites greater than 2 acres i: a landscape island at each end of a parking bay (min width 10') with: 1 tree/island (90 Islands) 24/93 TREES 20/93 TREES (25%) Max. 25% shall be palms: 413 TREES 25% Max Palms 50% Min shall be Native Trees 183/365 TREES 356/506 (70.3%) If 41+ trees are required Min. of species: 12 SPECIES 20% Min of Required Trees Flowering: 103 of 413(24.9.%)

→ SET ROOTBALL ON UNDISTURBED SOIL. DO NOT CUT LEADER
PRUNE DAMAGED OR DEAD
WOOD IMMEDIATELY PRIOR TO PLANTING AS DIRECTED BY THE LANDSCAPE ARCHITECT PROTECT TREE WITH BURLAP → 2"x4"X8'-0" STAKE 1" WIDE MIN. NYLON STRAPS →MULCH, 1" DEEP ON ROOT ZONE → 3" BASIN FOR WATERING. (3 PER TREE) **FLUORESCENT** →MULCH, 3" DEEP ORANGE MARKER ON BRACE STAKES 18" BELOW GRADE BACKFILL WITH PLANTING SOIL. 2x BALL DIA. ——

(2" cal. and under)

SMALL TREE PLANTING DETAIL

DO NOT CUT LEADER
PRUNE DAMAGED OR DEAD
•WOOD IMMEDIATELY PRIOR

BY THE LANDSCAPE ARCHITECT

→MULCH, 1" DEEP ON ROOT ZONE

SET CROWN OF ROOT BALL 0'-2"
ABOVE SURROUNDING FINISH GRADE.
UNTIE BURLAP FROM BASE OF TRUNK.
TRIM AS NECESSARY.

→ SET ROOTBALL ON UNDISTURBED SOIL.

BACKFILL WITH PLANTING SOIL.

PROTECT TREE WITH BURLAP

2"x4"X8'-0" STAKES (3 PER TREE)

→MULCH, 3" DEEP

LANDSCAPE CODE COMPLIANCE CHART

CITY OF PORT ST LUCIE LAND DEVELOPMENT CODE

1,554,958 sq.ft (35.7 AC)

322,798 sq.ft. (7.41 AC) 56.5%

66,068 sq.ft. (1.52 AC) 11.6%

146,657 sq.ft. (3.37 AC) 27.7%

35,988 sq.ft. (0.83 AC) 6.3%

571,511 sq.ft. (13.12 AC)

TOWN CENTER

TOTAL VUA:

OTAL SITE AREA:

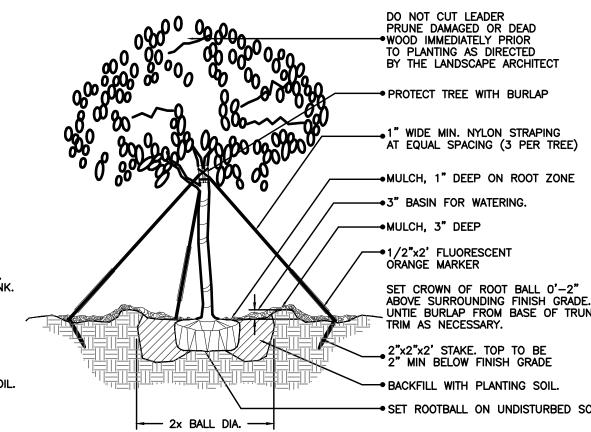
TOTAL BUILDING AREA:

TOTAL OPEN AREA:

DEVELOPMENT AREA (THIS PHASE)

SIDEWALK/PEDESTRIAN AREA:

SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. UNTIE BURLAP FROM BASE OF TRUNK.
TRIM AS NECESSARY. → SET ROOTBALL ON UNDISTURBED SOIL.



75% in landscape islands - evergreen shade trees:

SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. UNTIE BURLAP FROM BASE OF TRUNK. → SET ROOTBALL ON UNDISTURBED SOIL.

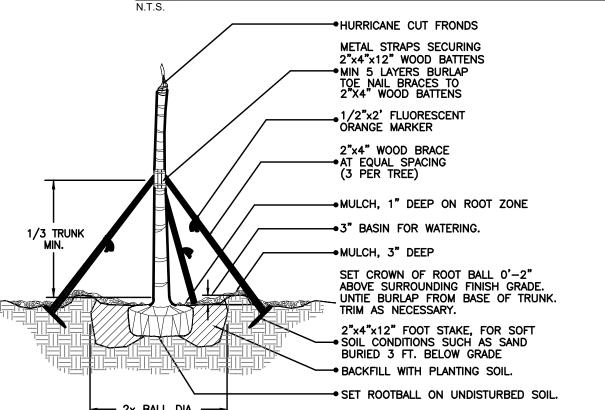
70 OF 93

\*\*Only includes palm trees counting towards minimum tree requirements.

\* O/H Electrical Lines Present Across Street Frontages. FP&L Right Tree Right Place Guidelines .

86 OF 93 (92.4%)

(2" cal. and over) LARGE TREE PLANTING DETAIL



CIGARED SABAL PALM PLANTING DETAIL

L-1.6

PSLUSD #5266k **ELEVATIONS BASED ON NAVD** 

→MULCH, 1" DEEP ON ROOT ZONE 3" BASIN FOR WATERING. •MULCH, 3" DEEP SET CROWN OF ROOT BALL 0'-1" ABOVE SURROUNDING FINISH GRADE. - PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION. AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY. - BACKFILL WITH PLANTING SOIL. SET ROOTBALL ON UNDISTURBED SOIL.

SHRUB PLANTING DETAIL

MULTI- TRUNK AND SMALL TREE (2" cal. and under) PLANTING DETAIL

PORT ST. LUCIE PROJECT NO: P23-069

COMMENT:

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LANDSCAPE PLANS

RIVERLAND CENTER RIVERLAND COMMERCIAL

ASSOCIATES I, LLC

PORT SAINT LUCIE FLORIDA

840 SE Osceola St.

Stuart, FL 34994 PH: (772) 888-3138

www.ThomasEngineeringGroup.com

No. 6667232

LORIDA BUSINESS CERT. OF AUTH. No. 275

**REQUIREMENTS &** 

**DETAILS** 

SHEET TITE: AND SCAPE

DRAWN BY: CHECKED BY: DATE: CAD I.D.:

### A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

### **B. PROTECTION OF EXISTING STRUCTURES**

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

## C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS, EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP - LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP – LINE.

2. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT, TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4") CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES, OR AS MAY BE REQUIRED BY THE REGULATING GOVERNMENT AGENCY, WHICHEVER IS GREATER. CALIPER SHALL BE MEASURED AT BREAST HEIGHT OR FOUR FEET (4') ABOVE SURROUNDING GROUND.

1. SUBMITTALS: GENERAL SAMPLES OF PLANTING MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN. MATERIALS SAMPLE SUBMITTALS

MULCH ONE (1) CUBIC FOOT TOPSOIL ONE (1) CUBIC FOOT

PLANTS ONE (1) REPRESENTATIVE SAMPLE OF EACH VARIETY

### 2. PLANT MATERIALS

A) GENERAL: PLANT SPECIES, SIZES, & QUANTITIES SHALL, AT A MINIMUM, 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 AND II. LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA NO. 1 AS AN ABSOLUTE MINIMUM UNLESS OTHERWISE SUPERSEDED BY A FLORIDA FANCY DESIGNATION, AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL - BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

B) MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF ROOT BALL (TRUNK FLARE) AND/OR ACROSS THE AVERAGE SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C) INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH PRELIMINARY APPROVAL SHALL NOT SUPERSEDE THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES, PRESENCE OF INSECTS, AND OTHER CONDITIONS THAT MAY HAVE OCCURRED SINCE THE NURSERY INSPECTION. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUIESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

D) AMENDED PLANTING SOIL: PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL-DRAINED, ARABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE

E) SAND SHALL BE CLEAN, WELL DRAINING NATIVE SAND. IF REQUESTED. CONTRACTOR SHALL AT ANY TIME AND AT NO COST TO OWNER, SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY OWNER.

# E. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADFOUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL NATURAL OR MAN – MADE FLEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

# F. COMMERCIAL FERTILIZER

1. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS. FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DELIVERED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

1. SHRUBS AND TREES – MILORGANITE, OR APPROVED EQUAL 2. ANNUALS AND GROUNDCOVERS - OSMOCOTE/SIERRA BLEND 14 - 14 - 14

3. SOD - 8 - 8 - 8 IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24 – 10 – 5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT THE RATE AND DEPTH SPECIFIED BY MANUFACTURER.

# G. MULCH

1. MULCH SHALL BE FROM SHREDDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEM BARREN.

2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT AND APPLIED AT A DEPTH OF THREE INCHES (3"). MULCH IS TO BE KEPT 2-3" FROM THE STEM OF ALL GROUNDCOVERS & 3-6" FROM THE TRUNK OF ALL TREES & PALMS.

3. MULCH SHALL BE GRADE 'B' SHREDDED, AND SHALL BE APPLIED EVENLY AND SMOOTH TO PLANTED AREAS.

4. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYPRESS MULCH OR PINE BARK SHALL BE USED.

# H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER EROSION, AND OTHER HARMFUL CRITERIA AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKING AND DRYING OUT DURING LOADING, TRANSIT, AND UNLOADING/PLANTING. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS, AND IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. NO PLANT WITH A ROOTBALL SHALL BE PLANTED IF

THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS BY "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. PRUNING PRACTICED OTHER THAN MINIMAL PRUNING OF FRONDS, PRIMARILY TO REACH A "CLEAR TRUNK" SPECIFICATION, MAY CONSTITUTE REJECTION, OF ALL PALMS SUBJECTED TO SUCH PRACTICE. LIKEWISE, EXCESSIVE PRUNING OR "SHAVING" OF ROOT BALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION ONSITE. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL ON THE PLANTING DETAILS SHEET.

5. EXCAVATION OF PLANTING HOLES SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS, AND PREPARED SUB-BASES.

## I. CONTAINER GROWN STOCK

1. 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 WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROO MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GOWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS OR WITH CIRCLING ROOTS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NEED AUTHORIZATION FROM THE OWNER. LIKEWISE, SUBSTITUTION OF CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE BALLED AND BURLAPPED/FIELD GROWN WILL NEED AUTHORIZATION FROM THE OWNER AND LA OF RECORD PRIOR TO THE ORDERING OF ANY MATERIALS.

5. ALL PLANT MATERIALS SHALL MEET THE MINIMUM SPECIFICATIONS LISTED IN THE PLANT SCHEDULE: SIZE (HEIGHT/SPREAD) SPECIFICATIONS TAKE PRECEDENCE OVER GALLON SIZES (IF GALLON SIZES ARE SPECIFIED).

## J. COLLECTED STOCK

1. WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOT BALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

## K. NATIVE STOCK

1. PLANTS COLLECTED FROM WILD OR NATIVE STAND SHALL BE CONSIDERED GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

## L. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY. BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN A BIDDER'S TAKE OFF AND THE PLANT LIST QUANTITY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS, DRAWING SHALL TAKE PRECEDENCE, ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE. WHERE NO GALLON SIZE IS SPECIFIED ON CONTAINERIZED SHRUBS OR GROUNDCOVERS, THE HEIGHT & SPREAD SPECIFICATIONS SHALL PREVAIL.

## M. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-FND LOADER FOR TRANSPORTING SOIL WITHIN THE SITE

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY AFFECT THE VIABILITY OF THE PLANTS TO BE INSTALLED, HE/SHE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER OR DESIGNEE

2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE PROHIBITED TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE JURISDICTIONAL MUNICIPALITY

3. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES. INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

4. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO MINIMUM DEPTH OF APPROXIMATELY 20% GREATER THAN THE RECOMMENDED PLANTING SOIL DEPTH - LINLESS OTHERWISE SPECIFIED BY JURISDICATIONAL CODE, CONTRACTOR IS RESPONSIBLE TO BACKELLI THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ONSITE SOURCE OR AN IMPORTED SOURCE, IF LIMEROCK CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR

DRAINAGE OR CONTACT OWNER'S CONSTRUCTION MANAGER OR DESIGNEE FOR RESOLUTION. CONTRACTOR IS TO ENSURE THAT ALL COMPACTED SOIL, ROAD ROCK, & EXCESS DEBRIS SHALL BE REMOVED & A 24" LAYER OF NON-LIMEROCK PLANTING SOIL FAVORABLE TO SHRUB GROWTH & SUSTAINABILITY EXISTS OVER ALL PLANTING AREAS. TREE PITS SHALL BE EXCAVATED & BACKFILLED WITH PLANTING SOIL TO A MINIMUM DEPTH OF 30".

5. RECOMMENDED PLANTING SOIL DEPTH IS GENERALLY AS FOLLOWS:

ALL TREES AND TALL SHRUBS (INDICATED AS 'SHRUBS' & 'SHRUBS AREAS' ON THE PLANT SCHEDULE) SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL; MINIMUM TOPSOIL SHALL BE 6" FOR LOW SHRUBS/GROUNDCOVER AREAS AND 2" FOR SODDED GRASS AREAS.

THE MINIMUM TOPSOIL DEPTHS ARE IN ADDITION TO A MINIMUM NON-LIMEROCK SOIL DEPTH OF 10"-18", CONSISTING OF EXISTING UNDISTURBED OR NATIVE SOIL THAT WAS STORED/STOCKPILED ON SITE AND REUSED, OR CLEAN IMPORTED PLANTING SOIL WITH A RANGE OF ORGANIC MATTER BETWEEN 3-5% CONTAINING NO STONES GREATER THAN AN INCH AND A HALF IN DIAMETER IN ANY DIRECTION. TOPSOIL DEPTHS PLUS PLANTING SOIL/EXISTING NATIVE SOIL MINIMUM DEPTHS ARE IN ADDITION TO ANY LIMESTONE/LIMEROCK SUBGRADE, & IN ADDITION TO EXCAVATION WIDTHS REQUIRED FOR TREE PITS AS SHOWN ON THE PLANTING DETAILS.

INCLUDING EXISTING VIABLE UNDISTURBED/OR STOCKPILED SOIL (IF PRESENT), REQUIRED TO BE PROVIDED ABOVE ANY LIMESTONE/LIMEROCK SUBGRADE CONDITION SHALL BE 12" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR SOD AREAS; 16" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR GROUNDCOVERS; 24" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR SHRUBS/SHRUB AREAS; AND 30" MINIMUM TOTAL NON-LIMEROCK SOIL DEPTH FOR TREE PITS. DESIGNATION OF 'TREES.' 'SHRUBS' / SHRUB AREAS.' AND 'GROUNDCOVERS' SHALL BE CONSISTENT WITH THE LABELING OF PLANT MATERIALS SHOWN ON THE LANDSCAPE PLAN'S PLANT SCHEDULE. WITH THE EXCEPTION OF COMMON TURFGRASSES WHICH MAY BE INDICATED AS 'GROUNDCOVERS.' NONE OF THE ABOVE MINIMUMS SHALL PRECLUDE THE CONTRACTOR FROM EXCAVATING & PROVIDING SOIL IN ACCORDANCE WITH NOTE N.4 OR N.9. IMPORTED PLANTING SOIL SHALL BE IN ACCORDANCE WITH NOTE D.2.D. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE & TAKE REASONABLE MEASURES AS PART OF DUE

PURSUANT TO THE ABOVE, THE TOTAL MINIMUM DEPTH OF VIABLE NON-LIMEROCK PLANTING SOIL.

6. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

SOIL NECESSARY TO ENSURE LONG-TERM SUSTAINABILITY & SURVIVAL OF THE PLANT MATERIALS IN

ACCORDANCE WITH THIS CONTRACT.

DILIGENCE TO DETERMINE THE EXTENT OF EXCAVATION REQUIRED & TO DETERMINE THE AMOUNT OF PLANTING

7. GENERAL: COMPLY WITH FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES

8. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

9. ALL PLANTING HOLES SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD TO NURSERY STOCK 280.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SEE MATERIALS, SECTION D). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS. UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. POOR DRAINAGE CONDITIONS TYPICALLY HAVE A PERCOLATION RATE OF 4" OR LESS PER HOUR, AS DETERMINED BY THE GEOTECHNICAL ENGINEER. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL RECOMMENDED.

10. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS, CURBS, PAVING, AND OTHER HARDSCAPE MATERIALS WHILE INSTALLING TREES.

11. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION D (MATERIALS) OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING HOLE SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S

SPECIFICATIONS OR AS FOLLOWS: - TWO (2) TABLETS PER 1 GAL. PLANT - THREE (3) TABLETS PER 3 GAL. PLANT

- FOUR (4) TABLETS PER 10 GAL. PLANT -TWO (2) TABLETS PER HALF INCH (1/2") OF TRUNK CALIPER

12. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE TOP OF THE ROOT SYSTEM (FOR SHRUBS AND GROUNDCOVER) OR TRUNK FLARE (TREES AND PALMS) WILL STAND ONE (1) TO TWO (2) INCHES ABOVE FINAL GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PLANTING HOLE. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

13. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES. TURNING SOIL IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET OR OTHER TAMPING DEVICE. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ONLY WITH MULCH. ALL BURLAP. ROPE, WIRES, ETC., SHALL BE PULLED FROM UNDERNEATH.

14. PRUNING: FOR DAMAGED OR BROKEN LIMBS, EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE SPECIES. ALL SUCKER GROWTH SHALL BE COMPLETELY REMOVED PRIOR TO DIGGING.

15. SHRUBS AND GROUNDCOVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED IN THE PLANT LIST. CULTIVATE ALL MASS PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE OF ALL DEBRIS, TILL 4" OF PLANTING SOIL MIX INTO THE NEWLY TILLED PLANTING BED FOR GENERAL NUTRIENT DISBURSEMENT. MASS PLANTING BED IS NOW READY TO RECEIVE HOLES FOR NEW PLANTS. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

16. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO ENSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. TREES SHALL USE ARBORTIE AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACING PER DETAIL SHEET.

17. MULCHING: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUNDCOVER AND VINE BED AND TREE PIT (FOR TREES AND PALMS, MIN. THREE INCH (3") FROM EDGE OF TRUNKS). – UNLESS OTHERWISE REQUIRED BY LOCAL CODES AND SPECIFIED AS SUCH.

18. SYSTEMIC HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER OR THEIR DESIGNEE. A SYSTEMIC HERBICIDE SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. AFTER MULCH HAS BEEN APPLIED TO PLANTING BEDS AND TREE RINGS, TREAT ALL MULCHED AREAS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

# O. LAWN SODDING

STENOTAPHRUM SECUNDATUM, V. 'FLORITAM' UNLESS OTHERWISE NOTED. (ST. AUGUSTINE SOLID SOD). 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING: OMPLETE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER AND GOVERNING AGENCIES.

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND OTHER DEBRIS, AND THE SOIL BROUGHT TO AN EVEN PREPARED GRADE TO ALLOW FOR SOIL PREPARATION BELOW.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR INCHES (4") DEEP. APPLY FERTILIZER AT A RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM, UTILIZING COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3"). HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY TO PREPARE FOR SOD INSTALLATION.

4. SODDING: THE CONTRACTOR SHALL SOD ALL THE PERVIOUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM. NEW TURF BLANKET FOR THE SITE, ALL PERVIOUS AREAS TO REMAIN THAT ARE DISTURBED BY CONSTRUCTION & NOT SHOWN TO HAVE SHRUBS OR GROUNDCOVER ON THE LANDSCAPE PLAN SHALL BE SODDED BY CONTRACTOR. ALL SOD OFF-SITE OR IN THE RIGHT-OF-WAY (DEDICATED OR OTHERWISE) SHALL BE BAHIA 'ARGENTINE' SOLID SOD UNLESS OTHERWISE NOTED.

A) THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND, SOD PANELS SHALL BE LAID TIGHTLY TOGETHER TO MAKE A SOLID, SODDED LAWN AREA.

B) SOD SHALL BE LAID IN ROWS WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOD TO INSURE A TIGHT FIT AT JOINTS, WITH GAPS NO GREATER THAN 1" BETWEEN SOD PANELS.

c) SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A FOUR INCH (4") MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED TO THOROUGHLY MOISTEN THE SOIL BENEATH, IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE

5. DURING DELIVERY, PRIOR TO ADD DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE INSTALLED DURING THE DAY OF ITS ARRIVAL.

# 6. LAWN MAINTENANCE:

A) WITHIN THE SITE, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY OWNER OR AS IN THE ORIGINAL WORK SCOPE AND PROCESS (INCLUDING REGRADING IF NECESSARY).

B) WATER EVERY DAY FOR FOURTEEN (14) SUCCESSIVE DAYS. THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL FULLY ESTABLISHED OR UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL AND PROGRAMMED ACCORDINGLY, COORDINATE WATERING SCHEDULE WITH NATURAL RAINFALL, RAINFALL EVENTS IN DURATION OF TWENTY (20) MINUTES OR MORE THAT PRODUCE MORE THAN A HALF INCH (1/2") OF PRECIPITATION WILL NEGATE THE NEED FOR WATERING OF THE FOLLOWING DAY IF PREVIOUSLY SCHEDULED. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO A DEPTH OF FOUR INCHES (4").

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE. THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK, ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

## Q. PLANT MATERIAL MAINTENANCE

1. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. MAINTENANCE AFTER THE CERTIFICATION OF AN ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE (SEE NEXT SECTION).

## R. MAINTENANCE (ALTERNATIVE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR LANDSCAPE AND IRRIGATION MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CARE & MAINTENANCE OF THE PLANT MATERIAL UNTIL THE END OF ESTABLISHMENT OR 60 DAYS AFTER FINAL LANDSCAPE CERTIFICATION BY THE LANDSCAPE ARCHITECT, WHICHEVER IS LATER, & SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AS NEEDED TO ENSURE ADEQUATE WATER IS SUPPLIED TO THE PLANT MATERIALS DURING ESTABLISHMENT. AT THE END OF THE ESTABLISHMENT PERIOD, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THE IRRIGATION TIMECLOCK IS ADJUSTED TO A NORMAL WATERING CYCLE PER THE IRRIGATION WATERING SCHEDULE SHOWN ON THE IRRIGATION PLANS.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL SOD INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNERS OR OWNER'S DESIGNEE.

3. REPLACEMENT: ANY PLANT NOT IN A HEALTHY, THRIVING GROWING CONDITION SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT, SHOULD THE OWNER ELECT, TREES AND PALMS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESURRECT THE TREE OR PALM IN QUESTION AND BRING IT TO A THRIVING, HEALTHY CONDITION. ALL REPLACEMENTS SHALL BE PLANTS OF LIKE KIND, CONDITION AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, AND MULCHED AS SPECIFIED WITHIN THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER. ANY REPAIRS FROM THIS REPLACEMENT MATERIAL SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT MATERIAL SHALL BE GUARANTEED TO A ONE (1) YEAR PERIOD FROM THE DAY OF REPLACEMENT ACCEPTANCE BY THE OWNER. SHOULD REPLACEMENT MATERIAL FAIL WITHIN THE GUARANTEE PERIOD, OWNER MAY OPT FOR A CREDIT OF THE MONETARY AMOUNT FOR THE REPLACEMENT MATERIALS AT A RATE OF THE ORIGINAL CONTRACT BID RATE. IN LIEU OF AN ADDITIONAL REPLACEMENT.

4. IN THE EVENT THE OWNER ELECTS NOT TO CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE. THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER OR THEIR DESIGNEE, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH OF ITEMS UNDER REPLACEMENT WARRANTY. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

## T. FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT, ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME, AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE 90R AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

## U. GRADING AND DRAINAGE NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY THE RESPECTIVE UTILITY COMPANIES IN FLORIDA, CALL FLORIDA SUNSHINE AT 811.

2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.

3. PITCH EVENLY BETWEEN SPOT GRADES, ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF

ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.

4. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW, WHERE EXISTING VEGETATION IS TO REMAIN, MEET EXISTING GRADES; DO NOT FILL ABOVE BASAL FLARE OF EXISTING TREES.

# V. UTILITY PLAN NOTES

1. CONTRACTOR SHALL INSTALL SCHEDULE 80 PVC CONDUIT (SLEEVES) FOR ALL IRRIGATION PIPING UNDER ALL PAVEMENT AREAS TO CONNECT ALL LANDSCAPE AREAS.

# W. SITE PREPARATION

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER AND IDENTIFY TREES AND SHRUBS WHICH ARE TO BE PROTECTED AS WELL AS THOSE WHICH ARE TO BE REMOVED. DO NO CLEARING WITHOUT A CLEAR LINDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED

2. TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE INSTALLATION OF FENCING AT THE DRIP LINE OR AS DIRECTED BY THE OWNER (SEE LANDSCAPE DETAIL SHEET). PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION. PROTECTIVE FENCING SHALL BE SUFFICIENT TO PREVENT CONSTRUCTION EQUIPMENT FROM COMPACTING SOIL AT THE ROOT ZONE AND DAMAGING TRUNKS AND BRANCHES.

3. IF, IN ORDER TO PERFORM EXCAVATION WORK, IT SHOULD BECOME NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED, SUCH ROOTS SHALL BE CUT NEATLY WITH A SMOOTH CLEAN CUT BY A SHARP SAW, COVERED WITH BURLAP, AND KEPT MOIST UNTIL ROOTS ARE BACK FILLED. TEARS OR JAGGED CUTS TO ROOTS ARE UNACCEPTABLE.

4. TREE AND SHRUB REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEMS AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED BY THE REMOVAL OPERATIONS.

5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF CONSTRUCTION DUE TO

HIS CONTRACT OPERATIONS. 6. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE

LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR. 7. ALL INVASIVE EXOTIC VEGETATION SHALL BE DISPOSED OF OR TREATED AS PER THE LOCAL OR REGIONAL

## GOVERNING AUTHORITIES, REQUIREMENTS OR RECOMMENDATIONS. X. ROOT CONTROL BARRIER

1. ROOT CONTROL PRODUCT SHALL BE A BIOLOGICAL BARRIER PRODUCT. PRODUCT SHALL BE 810-BARRIER ROOT CONTROL SYSTEM, AS MANUFACTURED BY BBA FIBERWEB/REEMAY, INC. AND DISTRIBUTED BY HORT ENTERPRISES, INC. SEE WWW.BIOBARRIER.COM FOR ADDITIONAL INFORMATION AND PRODUCT SPECIFICATION. HORT ENTERPRISES, INC.

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2. PRODUCT SHALL BE A BIOLOGICAL BARRIER UTILIZING LIME-RELEASE CAPSULES INTEGRATED INTO A GEOTEXTILE FABRIC. ACTIVE HERBICIDE SHALL BE A TRIFLURALIN. AND MINIMUM TIME RELEASE OF EFFECTIVE PRODUCT SHALL BE 1-5 YEARS IN THE MOST ADVERSE CONDITIONS FOR SUCH A PRODUCT. ALTERNATIVELY, A RIGID PHYSICAL ROOT BARRIER SUCH AS 'DEEP ROOT' HARD PLASTIC AT LEAST 24" IN DEPTH SHALL BE USED.

3. PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS.

4. USE PRODUCT WHERE TREES ARE WITHIN TEN FEET (10') OR LESS OF HARDSCAPE SURFACES OR UTILITIES INCLUDING BUT NOT LIMITED TO CURBS, SIDEWALKS, STEPS, ROADWAYS, WATER & SEWER LINES. SMALL TREES THAT TYPICALLY MATURE AT 18' HEIGHT OR LESS REQUIRE ROOT BARRIERS WHERE SMALL TREES ARE WITHIN SIX FEET (6') OR LESS OF HARDSCAPE SURFACES OR UTILITIES. EXISTING TREES TO BE PRESERVED (THAT ARE NOT WITHIN TEN FEET (10') OF ANY NEW UTILITIES) DO NOT REQUIRE ROOT BARRIERS. ROOT BARRIERS ARE NOT REQUIRED WHERE PROPOSED TREES ARE LOCATED ADJACENT TO D-TYPE CURBING.

5. USE 36" DEPTH OPTION WHEN USING A BIOLOGICAL ROOT BARRIER. USE 24" DEPTH OPTION WHEN USING RIGID PLASTIC, PHYSICAL ROOT BARRIER SUCH AS 'DEEP ROOT'.

6. WHERE CONDITIONS REQUIRE PRODUCT AS SET FORTH IN NO. 4 ABOVE, USE PRODUCT IN EITHER DIRECTION

FROM THE CENTER OF THE TRUNK ALONG LINEAR FEATURES SUCH AS CURBS, WALKWAYS, ETC. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A ROOT CONTROL SYSTEM WHERE ROOTS WOULD LIKELY CAUSE PHYSICAL DAMAGE TO ADJACENT HARDSCAPE SURFACES, FOUNDATIONS, UTILITIES, OR OTHER ELEMENTS THAT MAY RECEIVE DAMAGE FROM ROOT SYSTEMS OF TREES. REFER TO NO. 5 ABOVE FOR THE REQUIRED DEPTH OF THE ROOT BARRIERS. THE USE OF ROOT BARRIERS SHALL BE MINIMUM 6' OVERALL LENGTH FROM THE CENTER OF THE TRUNK PARALLEL TO LINEAR FEATURES TO BE PROTECTED FOR SMALL TREES, OR MINIMUM 10' OVERALL LENGTH FROM THE CENTER OF THE TRUNK FOR MEDIUM TO LARGE MATURING SHADE TREES. MINIMUM LENGTHS OF ROOT BARRIER PRODUCTS MAY BE INCREASED BASED ON LENGTH GRAPHICALLY DEPICTED ON PLAN, OR AT THE DISCRETION OF THE LANDSCAPE INSPECTOR. IN PARKING LOT ISLANDS ONLY, THE ROOT BARRIER LENGTH SHALL BE PROVIDED FOR THE FULL LENGTH OF FEATURE (UTILITY, STRUCTURE, OR PAVEMENT) TO BE PROTECTED.

### Y. IRRIGATION

1. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS UNLESS ALREADY PROVIDED BY THE LANDSCAPE ARCHITECT AS PART OF THE CONTRACT DOCUMENTS. DESIGN TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL CONTRACTOR TO VERIEV STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET PRESSURE REQUIREMENTS, SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION. METERS, AND CONTROLLERS. ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING. CONTRACTOR SHALL NOT INSTALL IRRIGATION IN RIGHT-OF-WAY UNLESS REQUIRED BY CITY. NETAFIM DRIP IRRIGATION TO BE INSTALLED IMMEDIATELY AROUND BUILDING TO PREVENT WATER SPRAY ON BUILDING, WALKS, AND WINDOWS. NETAFIM PIPING TO BE BURIED JUST BENEATH SOIL SURFACE AND COVERED, INSTALLED BY AN OWNER APPROVED

2. DESIGNED SYSTEM SHALL CONSIST OF AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH 100% OVERLAP. AND CONTAINING A RAIN SENSOR INSTALLED BY AN OWNER APPROVED CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED AND OPERATIONAL WITHIN TEN (10) DAYS OF THE INITIAL LANDSCAPE INSTALLATION.

## SITE NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY OR DISPOSITION PLAN TO THE OWNER & LANDSCAPE ARCHITECT OF RECORD PRIOR TO STARTING WORK. ANY OVERHEAD POWERLINES, UNDERGROUND UTILITIES, EXISTING TREES, ETC. IN CONFLICT WITH PROPOSED LANDSCAPING. INCLUDING FPL RIGHT-TREE-RIGHT-PLACE GUIDELINES. SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE OR DESIGNEE, AND TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO SUBJECT PLANT MATERIAL INSTALLATION. FAILURE TO NOTIFY THE LANDSCAPE ARCHITECT & OWNER OF ANY DISCREPANCIES SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND WILL RESULT IN THE CONTRACTOR MOVING OR REPLACING THE PLANT MATERIAL AT THEIR OWN EXPENSE. LARGE MATURING SHADE TREES (THOSE THAT TYPICALLY GROW TO A SPREAD OR HEIGHT GREATER THAN 25 FEET) SHALL NOT BE PLANTED WITHIN 20 FEET OF ANY OTHER LARGE MATURING SHADE TREES UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE LANDSCAPE PLAN. CONTRACTOR SHALL NOT WILLFULLY INSTALL PLANT MATERIALS IN CONFLICT WITH EXISTING OR PROPOSED SITE FEATURES.

# GENERAL PLANTING NOTES

1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THIS DRAWING.

2. ALL BIODEGRADABLE BURLAP SHALL BE UNTIED AND PULLED DOWN TO EXPOSE THE TOP 1/3 OF THE BALL. WIRE BASKETS AND OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING, CARE SHALL BE TAKEN NOT TO BREAK OR DISTURB ROOT BALL OF PLANTS. 3. ALL PLANTS SHALL BE WATERED BY HAND IN SUFFICIENT QUANTITIES TO THOROUGHLY WET ENTIRE ROOT

SYSTEM IMMEDIATELY AFTER PLANTING 4. PLANTS SHALL BE GUARANTEED TO A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE PROJECT AND SHALL BE VIGOROUS AND THRIVING AT THE END OF THE GUARANTEE PERIOD. SEE SECTIONS S, GUARANTEE FOR

MORE DETAILS. 5. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE OWNER. 6. CONTRACTOR SHALL FAMILIARIZE HIM/HER -SELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND

VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST. CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S DESIGNEE

IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED 7. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBTAIN AS-BUILT INFORMATION, DRAWINGS WERE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF

NOTICE TO PROCEED OF ANY DISCREPANCIES. 8. CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES FORTY-EIGHT (48) HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS AND COORDINATE

9. CONTRACTOR SHALL TAG AND NUMBER ALL PLANT MATERIAL TO BE RELOCATED. THE CONTRACTOR SHALL FULLY ASSIST AND COORDINATE THIS WORK WITH THE OWNER'S DESIGNEE PRIOR TO INITIATING FIELD DIGGING THE TREES. 10. LOCATIONS OF RELOCATED PLANT MATERIAL ARE APPROXIMATED ON THE DRAWINGS. EXACT LOCATIONS OF

WITH OWNER'S DESIGNEE IN WRITING PRIOR TO INITIATING OPERATIONS

RELOCATED PLANT MATERIAL WILL BE CLARIFIED BY THE OWNER'S DESIGNEE ON SITE.

11. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS. 12. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN IN MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A LINEAR SPACING CONFIGURATION AROUND BUILDING FOUNDATION AS SHOWN ON DRAWING. PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST. FOR PERIMETER AND PARKING

ISLAND SPACING, USE THE TRIANGULAR SPACING METHOD. 13. CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S DESIGNEE. 14. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL

SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S 15. ALL PLANTING AREAS, UNLESS OTHERWISE NOTED, SHALL INCLUDE A THREE INCH (3") LAYER OF MULCH AS

EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND FLEMENTS. ALL CHANGES REQUIRED

PER THE SPECIFICATIONS. 16. ALL TREES PLANTED IN LAWN AREAS SHALL RECEIVE A THREE-FOOT DIAMETER (3') MULCH RING AT DEPTH OF THREE INCHES (3"). 17. ALL EXISTING TREES TO REMAIN IN LAWN AREA SHALL RECEIVE A MULCH RING TWO FEET (2') OUT FROM

EDGE OF TRUNK OR TO THE LIMIT OF THE ADJACENT LAWN AREA AT A DEPTH OF THREE INCHES (3") AS PER SPECIFICATIONS. 18. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE OWNER'S DESIGNEE IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY THE OWNER'S DESIGNEE BEFORE PLANTING CAN BEGIN.

DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. 20. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND THE PROJECT MANUAL AND SPECIFICATIONS FOR FURTHER AND COMPLETE INSTRUCTIONS.

19. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE EVENT OF QUANTITY

22. THIS SITE MAY CONTAIN EXISTING TREES WHICH REQUIRE TRIMMING AND/OR PRUNING. THE LANDSCAPE COMPANY/CONTRACTOR MUST HAVE A CERTIFIED ARBORIST ON STAFF TO ENSURE PROPER ISA HORTICULTURAL PROCEDURES ARE FOLLOWED REGARDING THE TRIMMING, PRUNING, TRANSPLANTING, ETC. OF THESE TREES.

21. ALL UTILITY BOXES, CLEANOUTS, ETC., SHALL BE PAINTED GREEN IF IN GRASS AREAS AND BROWN IF IN MULCH

REVISIONS COMMENT:

> KNOW WHAT'S BELOV ALWAYS CALL 811 It's fast, It's free, It's the law. www.callsunshine.com

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LANDSCAPE PLANS

RIVERLAND CENTER RIVERLAND COMMERCIAL

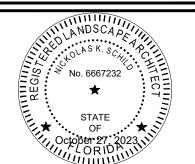
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FLORIDA

ASSOCIATES I, LLC



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<sup>SH</sup>FJ27<del>0</del>017-LS-PLANS -LANDSCAPE GENERAL

**PSLUSD #5266k** 

**ELEVATIONS BASED ON NAVD '8** 

PORT ST. LUCIE PROJECT NO: P23-069

**NOTES** 

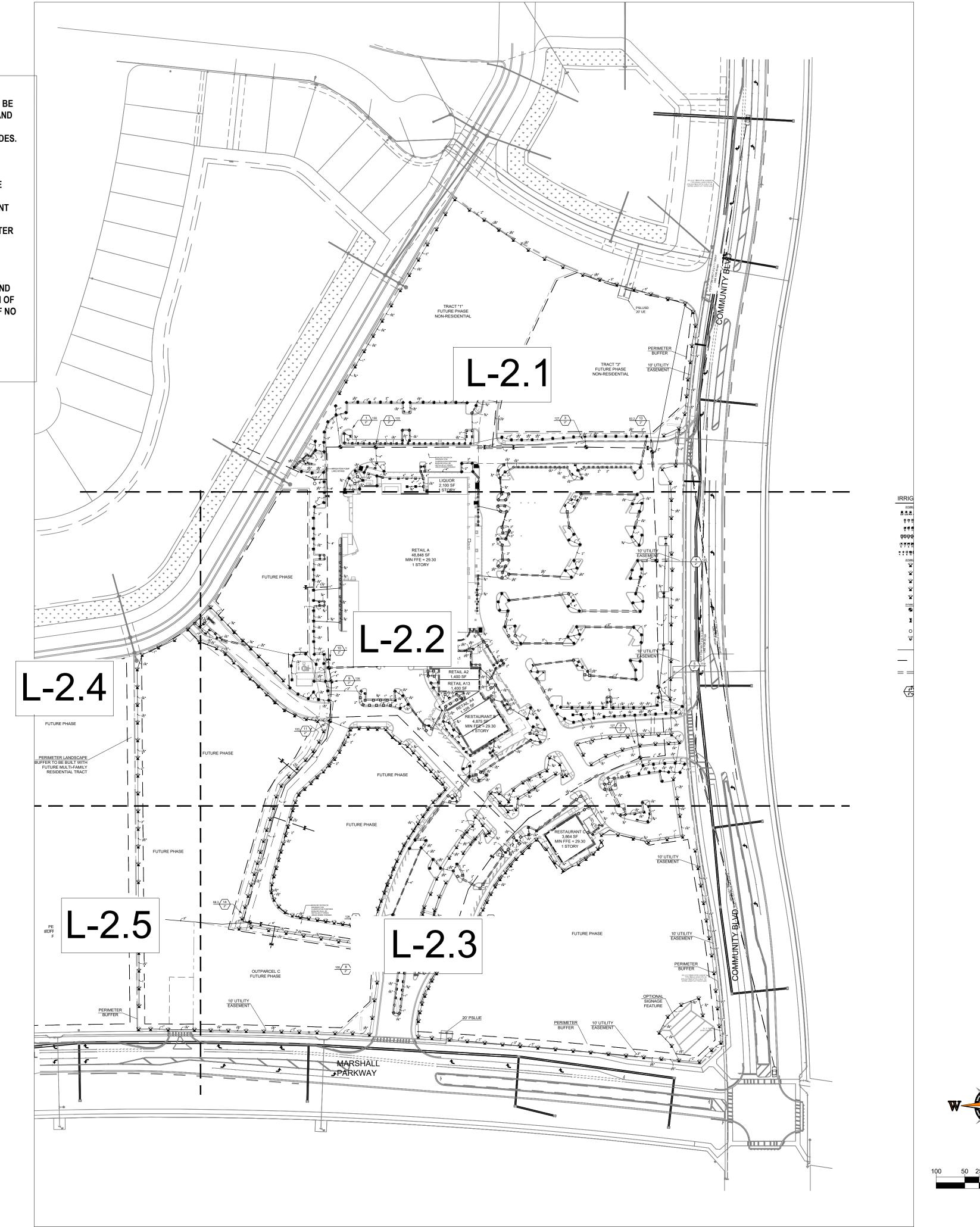
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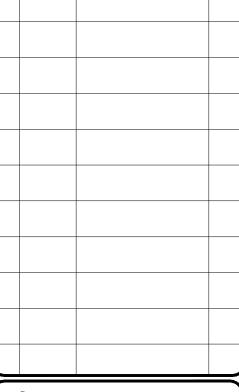
- NO LANDSCAPING SHALL BE PLANTED IN A MANNER THAT WOULD ADVERSELY AFFECT UTILITY EASEMENTS. LANDSCAPING SHALL BE IN COMPLIANCE WITH CHAPTER 154 OF THE CITY OF PORT ST. LUCIE CODE OF ORDINANCES, PSLUSD TECHNICAL SPECIFICATIONS AND POLICIES.
- ALL LANDSCAPING WITHIN CITY UTILITY EASEMENTS SHALL COMPLY WITH PSLUSD TECHNICAL SPECIFICATIONS, POLICIES AND CODES. • ALL LANDSCAPING SHALL MEET THE LATEST PSLUSD LANDSCAPE POLICY AND SHALL NOT BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY UTILITY.
- TREES SHALL NOT BE PLACED WITHIN TEN (10) FEET OF ANY PSLUSD UNDERGROUND INFRASTRUCTURE. WITH THE EXCEPTION OF FOXTAIL PALMS, TREES SHALL NOT BE PLANTED WITH 10' OF ANY PSLUSD INFRASTRUCTURE. AS SPECIFICALLY APPROVED BY THE PSLUSD, FOXTAIL PALMS MAY BE A DISTANCE NOT LESS THAN SEVEN (7') FEET OF ANY PSLUSD INFRASTRUCTURE. ALL MEASUREMENTS ARE FORM OUTSIDE TO OUTSIDE, NOT CENTERLINE TO CENTERLINE. EXAMPLE: OUTSIDE OF PIPE TO NEAREST PINT ON THE TREE TRUNK.
- NO LANDSCAPING OTHER THAN SOD GRASSES SHALL BE LOCATED WITHIN 5' OF A PSLUSD APPURTENANCE SUCH AS A WATER METER ASSEMBLY, BACKFLOW DEVICE OR SEWER CLEANOUT, ETC.

## GENERAL LANDSCAPE NOTES

- ALL LANDSCAPING AT INTERSECTIONS AND CORNERS COMPLIES WITH SECTION 158.204 OF THE PORT ST LUCIE CODE OF ORDINANCES TO PROVIDE A CLEAR SIGHT ZONE BETWEEN 2' & 6' ABOVE THE FINAL ROAD CROWN ELEVATIONS. ALL HEDGES AND SHRUBS WITHIN THE 25' SIGNT TRIANGLE WILL BE MAINTAINED AT A HEIGHT NO HIGHER THAN 2' ABOVE THE CROWN ELEVATION OF THE ROAD. IN ADDITION, THE FOLIAGE LEIN OF ANY TREE WITHIN THE 25' SIGHT TRIANGLE WILL BE MAINTAINED AT A HEIGHT OF NO LESS THAT 6' ABOVE THE CROWN OF THE ROAD.
- AT LEAST 50% OF ALL REQUIRED TREES SHALL BE OF A NATIVE SPECIES.
- ALL PLANTING BEDS TO BE COVERED WITH DeWitt LANDSCAPE FABRIC AND RECEIVE 4" OF MULCH.
- ALL PLANT MATERIALS TO BE FLORIDA #1 OR BETTER.
- ALL LANDSCAPE & SOD AREAS TO BE IRRIGATED BY AN AUTOMATIC SYSTEM.









KNOW WHAT'S BELOW

OJECT No.:	FJ2100
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OJECT:	

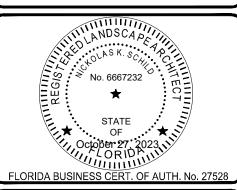
LANDSCAPE PLANS

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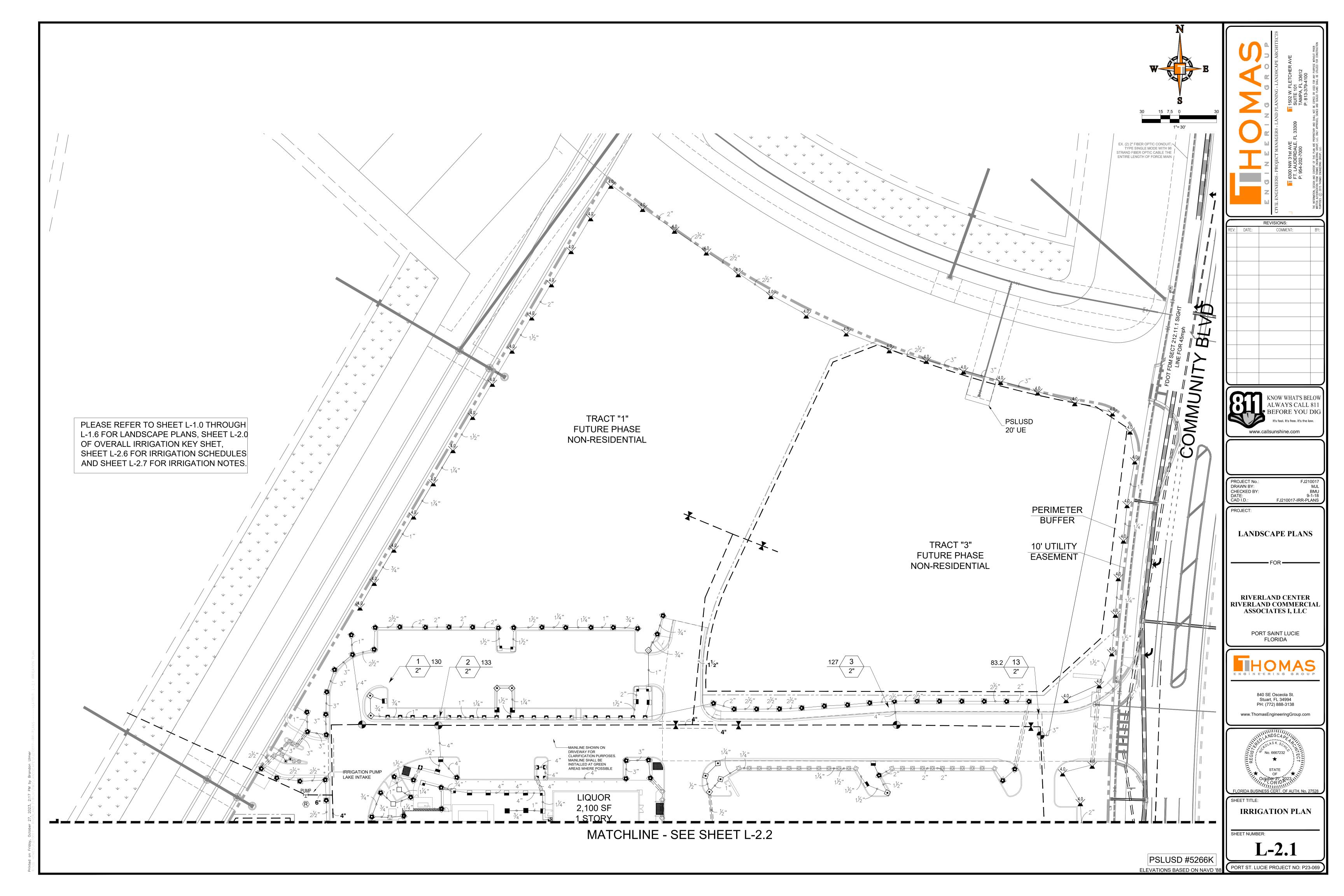
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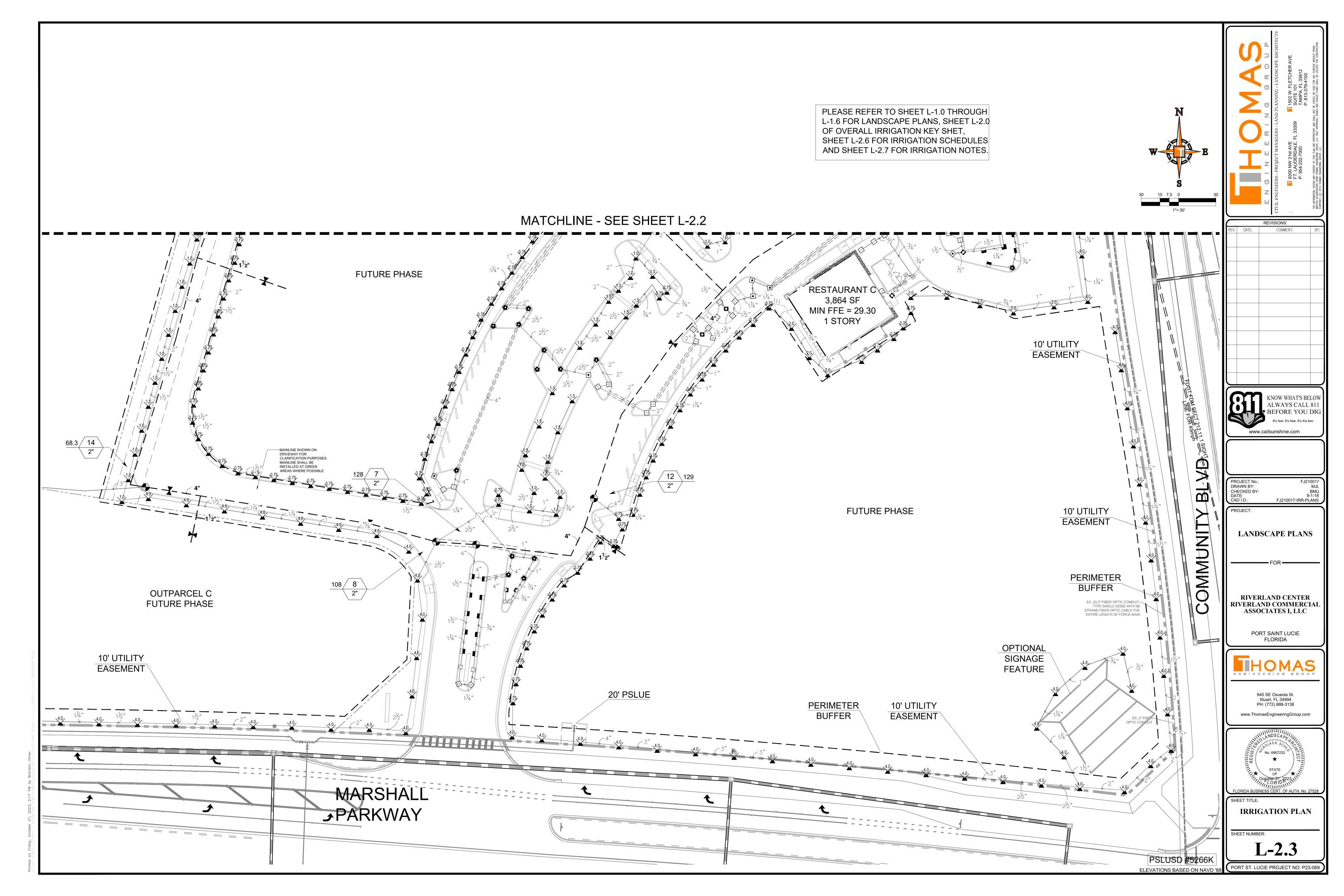
**IRRIGATION KEY SHEET** 

PSLUSD #5266K PORT ST. LUCIE PROJECT NO: P23-069

ELEVATIONS BASED ON NAVD '88



PLEASE REFER TO SHEET L-1.0 THROUGH L-1.6 FOR LANDSCAPE PLANS, SHEET L-2.0 OF OVERALL IRRIGATION KEY SHET, SHEET L-2.6 FOR IRRIGATION SCHEDULES AND SHEET L-2.7 FOR IRRIGATION NOTES. MATCHLINE - SEE SHEET L-2.1 2½" - 4" RETAIL A 10' UTILIT 48,848 SF EASEMENT MIN FFE = 29.30 1 STORY **FUTURE PHASE** \_\_\_\_\_\_ www.callsunshine.com 10' UTILITY EASEMENT RETAIL A1 LANDSCAPE PLANS 2,072 SF RETAIL A2 1,400 SF RETAIL A13 RIVERLAND CENTER RIVERLAND COMMERCIAL ASSOCIATES I, LLC PORT SAINT LUCIE FLORIDA RESTAURANT B 4,875 SF MIN FFE = 29.30 1 STORY 840 SE Osceola St. Stuart, FL 34994 PH: (772) 888-3138 FUTURE PHASE FUTURE PHASE IRRIGATION PLAN PSLUSD #5266K MATCHLINE - SEE SHEET L-2.3 PORT ST. LUCIE PROJECT NO: P23-069



PLEASE REFER TO SHEET L-1.0 THROUGH L-1.6 FOR LANDSCAPE PLANS, SHEET L-2.0 OF OVERALL IRRIGATION KEY SHET, SHEET L-2.6 FOR IRRIGATION SCHEDULES AND SHEET L-2.7 FOR IRRIGATION NOTES. MATCHLIN BMU 9-1-18 FJ210017-IRR-PLANS **FUTURE PHASE** LANDSCAPE PLANS FUTURE PHASE PERIMETER LANDSCAPE BUFFER TO BE BUILT WITH FUTURE MULTI-FAMILY RIVERLAND CENTER RIVERLAND COMMERCIAL ASSOCIATES I, LLC RESIDENTIAL TRACT PORT SAINT LUCIE FLORIDA 40. 840 SE Osceola St. Stuart, FL 34994 PH: (772) 888-3138 MATCHLINE - SEE SHEET L-2.5 www. Thomas Engineering Group.comMATCHLINE SEE SHEET L-2 **FUTURE PHASE** IRRIGATION PLAN PSLUSD #5266K PORT ST. LUCIE PROJECT NO: P23-069 ELEVATIONS BASED ON NAVD '88

RESIDENTIAL TRACT MATCHLINE - SEE SHEET L-2.4 PLEASE REFER TO SHEET L-1.0 THROUGH L-1.6 FOR LANDSCAPE PLANS, SHEET L-2.0 OF OVERALL IRRIGATION KEY SHET, SHEET L-2.6 FOR IRRIGATION SCHEDULES AND SHEET L-2.7 FOR IRRIGATION NOTES. **FUTURE PHASE** PERIMETER LANDSCAPE **BUFFER TO BE BUILT WITH** FUTURE MULTI-FAMILY RESIDENTIAL TRACT www.callsunshine.com PROJECT No.: DRAWN BY: CHECKED BY: DATE: CAD I.D.: BMU 9-1-18 FJ210017-IRR-PLANS LANDSCAPE PLANS PERIMETER BUFFER RIVERLAND COMMERCIAL ASSOCIATES I, LLC PORT SAINT LUCIE FLORIDA 840 SE Osceola St. Stuart, FL 34994 PH: (772) 888-3138 www. Thomas Engineering Group.com**IRRIGATION PLAN** PSLUSD #5266K ELEVATIONS BASED ON NAVD '88 PORT ST. LUCIE PROJECT NO: P23-069

# IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6" popup with pressure regulator.	19	30
Ø Ø Ø Ø Q T H F	Rain Bird 1806-PRS 8 Series MPR Turf Spray 6" popup with pressure regulator.	42	30
Q T H F	Rain Bird 1806-PRS 10 Series MPR Turf Spray 6" popup with pressure regulator.	65	30
Q T H TT TQ F	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6" popup with pressure regulator.	56	30
Q T H TT TQ F	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6" popup with pressure regulator.	83	30
<ul><li></li></ul>	Rain Bird 1806-PRS ADJ Turf Spray 6" popup with pressure regulator.	350	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
0.75	Rain Bird 3500-S 0.75 Shrub Rotor,adjustable and full circle	109	25
1.0	Rain Bird 3500-S 1.0 Shrub Rotor,adjustable and full circle	48	25
1.5	Rain Bird 3500-S 1.5 Shrub Rotor,adjustable and full circle	35	25
2.0	Rain Bird 3500-S 2.0 Shrub Rotor,adjustable and full circle	12	25
4.0	Rain Bird 3500-S 4.0 Shrub Rotor,adjustable and full circle	151	25
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird PEB Electric Remote Control Valve	14	
	Landscape Products Inc. BGV 1/2in., 3/4in., 1in., 1-1/4in., 1-1/2in., 2in., 2-1/2in., 3in., 4in. Brass Gate Valve. Threaded bonnet, Non-rising stem, Pressure rated to 200 psi. Same size as mainline.	15	
⟨ <b>R</b> ⟩	Rain Bird RSD-BEx Rain Sensor, with bracket, extension wire	1	
PUMP \ <del>_</del>	Point of Connection New 20 HP Dual Centrifugal (VFD) Pump intake from Lake	1	
	Irrigation Lateral Line: Polyethylene and PVC Class 160 Polyethylene SDR-7 up to 1-1/4, then PVC Class 160 SDR 26 for 1-1/2" and larger. Only lateral transition pipe sizes 3/4" and above are indicated on the plan, with all others being 1/2" in size.	20,047 l.f.	
	Irrigation Mainline: Polyethylene and PVC Class 200	3,953 l.f.	
	Pipe Sleeve: PVC Schedule 80 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond	2,340 l.f.	

through sleeving material. Extend sleeves 18 inches beyond

edges of paving or construction.

Valve Callout

# CRITICAL ANALYSIS

Generated:	2023-09-12 15:17
P.O.C. NUMBER: 01 Water Source Information:	New 20 HP Dual Centrifugal (VFD) Pump intake from Lake
FLOW AVAILABLE	
Custom Max Flow:	500 GPM
Flow Available	500 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	70 PSI
Pressure Available:	70 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	500 GPM
Flow Available at POC:	500 GPM
Residual Flow Available:	0 GPM
Critical Station:	4
Design Pressure:	30 PSI
Friction Loss:	5.29 PSI
Fittings Loss:	0.54 PSI
Elevation Loss:	0 PSI
Loss through Valve:	8.15 PSI
Pressure Req. at Critical Station:	44.0 PSI
Loss for Fittings:	1.65 PSI
Loss for Main Line:	16.5 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	62.2 PSI
Pressure Available:	70 PSI
Residual Pressure Available:	7.84 PSI

# VALVE SCHEDULE

RADIU

15'

23'

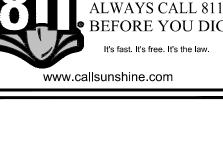
27'

NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	HEADS	PIPE	WIRE	DESIGN PSI	FRICTION LOSS	<u>PSI</u>	PSI @ POC	PRECIP
1	Rain Bird PEB	2"	Turf Spray	130.06	57	974.8		30	4.48	43.4	47.3	0.95 in/h
2	Rain Bird PEB	2"	Turf Spray	132.85	94	1,653		30	6.62	46.0	52.4	1.2 in/h
3	Rain Bird PEB	2"	Turf Spray	126.5	89	1,219		30	7.32	45.7	61.8	0.96 in/h
4	Rain Bird PEB	2"	Turf Spray	124.58	59	1,549		30	5.83	44.0	62.2	1.2 in/h
5	Rain Bird PEB	2"	Shrub Rotor	118.88	48	1,510		25	5.14	37.6	54.7	0.62 in/h
6	Rain Bird PEB	2"	Turf Spray	127.43	57	1,176		30	4.11	42.7	59.5	1.26 in/h
7	Rain Bird PEB	2"	Turf Spray	127.96	93	1,821		30	5.35	44.0	60.1	1.18 in/h
8	Rain Bird PEB	2"	Shrub Rotor	107.85	64	1,582		25	9.28	40.4	56.9	0.64 in/h
9	Rain Bird PEB	2"	Turf Spray	135.1	68	1,206		30	2.76	42.4	55.5	1.14 in/h
10	Rain Bird PEB	2"	Turf Spray	130.04	98	1,405		30	3.01	41.9	54.4	1.19 in/h
11	Rain Bird PEB	2"	Shrub Rotor	102.93	120	2,252		25	13.2	43.7	58.2	0.53 in/h
12	Rain Bird PEB	2"	Shrub Rotor	128.94	72	1,700		25	9.08	42.9	59.7	0.57 in/h
13	Rain Bird PEB	2"	Shrub Rotor	83.16	28	1,119		25	9.93	39.7	57.1	0.72 in/h
14	Rain Bird PEB	2"	Shrub Rotor	68.31	23	880.6		25	5.34	34.9	52.7	0.68 in/h

# WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird PEB	Turf Spray	0.95 in/h	1	64	8,324	
2	Rain Bird PEB	Turf Spray	1.2 in/h	1	51	6,776	
3	Rain Bird PEB	Turf Spray	0.96 in/h	1	63	7,970	
4	Rain Bird PEB	Turf Spray	1.2 in/h	1	50	6,229	
5	Rain Bird PEB	Shrub Rotor	0.62 in/h	1	97	11,531	
6	Rain Bird PEB	Turf Spray	1.26 in/h	1	48	6,117	
7	Rain Bird PEB	Turf Spray	1.18 in/h	1	51	6,526	
8	Rain Bird PEB	Shrub Rotor	0.64 in/h	1	95	10,246	
9	Rain Bird PEB	Turf Spray	1.14 in/h	1	53	7,161	
10	Rain Bird PEB	Turf Spray	1.19 in/h	1	51	6,632	
11	Rain Bird PEB	Shrub Rotor	0.53 in/h	1	115	11,837	
12	Rain Bird PEB	Shrub Rotor	0.57 in/h	1	106	13,668	
13	Rain Bird PEB	Shrub Rotor	0.74 in/h	1	82	6,332	
14	Rain Bird PEB	Shrub Rotor TOTALS:	0.68 in/h	1	89 1,015	6,080 115,426	

REVISIONS:						
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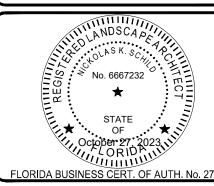
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LANDSCAPE PLANS

RIVERLAND CENTER RIVERLAND COMMERCIAL ASSOCIATES I, LLC

PORT SAINT LUCIE FLORIDA

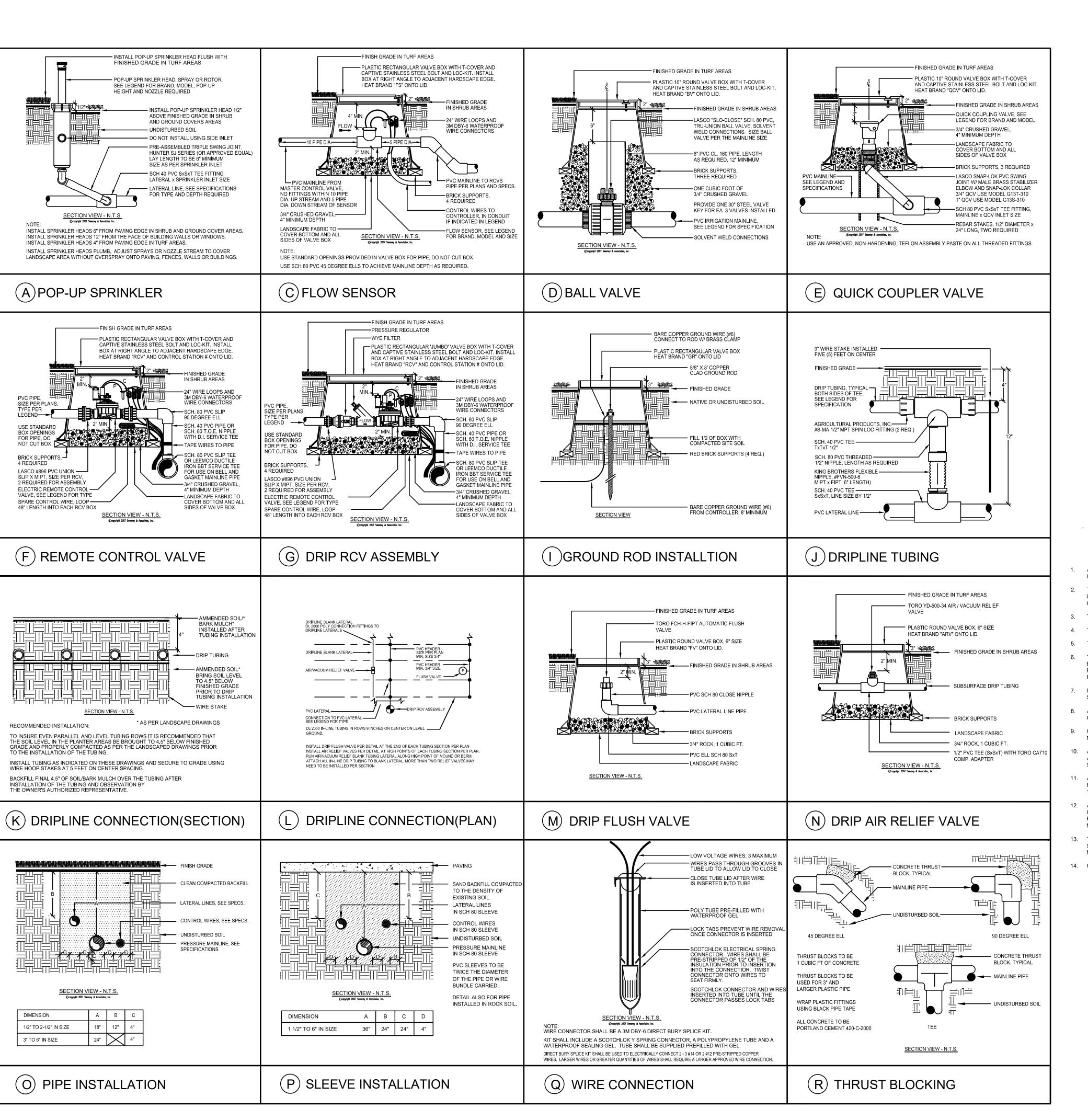


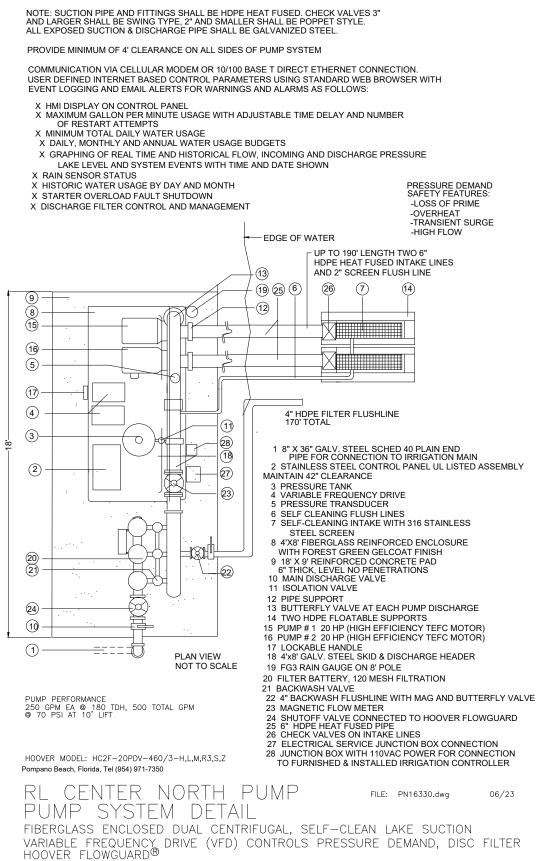


**IRRIGATION SCHEDULES** 

PORT ST. LUCIE PROJECT NO: P23-069

PSLUSD #5266K





# IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES. STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF
- 10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN
- 12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS. WALLS. FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW. REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. THOMAS ENGINEERING GROUP RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
- 14. CONTRACTOR TO RECERTIFY EXISTING PUMP AND PVB IF APPLICABLE

# POINTS OF CONNECTION SHALL BE AN NEW 20 HP CENTRIFUGAL PUMP @ 500 GPM, 70 PSI & 6" INTAKE FROM LAKE.

VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MINIMUM STATIC WATER PRESSURE REQUIRED @ POC DESIGN STATIC WATER PRESSURE MAXIMUM SYSTEM DEMAND

47.3 PSI 70 PSI 135 GPM

CONTROLLER IS AS SPECIFIED (MOUNT IN PUMP HOUSE). CONTRACTOR TO VERIFY CONDITION AND FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER **OBSTACLES TYP** 

CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

KNOW WHAT'S BELO

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PROJECT

FJ210017-IRR-PLANS

CAD I.D.:

LANDSCAPE PLANS

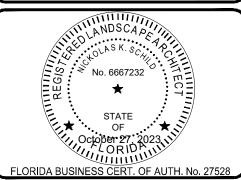
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SHEET NUMBER:

PSLUSD #5266k

PORT ST. LUCIE PROJECT NO: P23-069 **ELEVATIONS BASED ON NAVD**