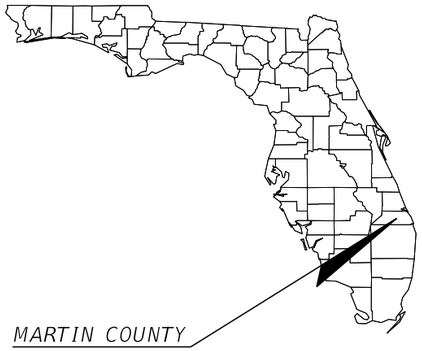
CITY OF STUART

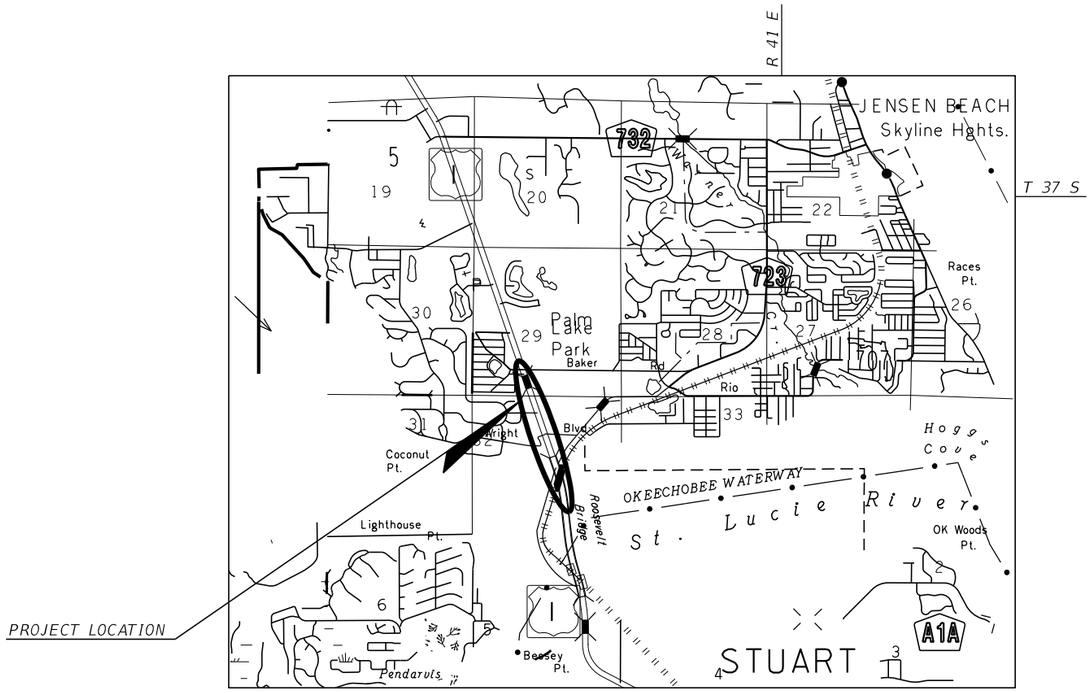
LANDSCAPE CONTRACT PLANS

NW FEDERAL HWY (US HIGHWAY 1) LANDSCAPE IMPROVEMENTS



INDEX OF LANDSCAPE PLANS

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LD-14 - LD-17	*IRRIGATION PLANS*
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PLANS PREPARED BY:

Kimley»Horn

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(772) 794-4100
PROJECT NUMBER: 147496035
CERTIFICATE OF AUTHORIZATION: 00000696

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD: MATT FRANKO

R.L.A. NO.: 6667292

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

60% PLAN SUBMITTAL
APRIL 2019

CITY COMMISSIONERS

REBECCA S. BRUNER	*MAYOR*
EULA CLARKE	*VICE MAYOR*
KELLI GLASS LEIGHTON	*COMMISSIONER*
MERRITT MATHESON	*COMMISSIONER*
MIKE MEIER	*COMMISSIONER*

DEPARTMENT OF PUBLIC WORKS

DAVID D. PETERS	*DIRECTOR*
TIM VOELKER, P.E.	*ASSISTANT DIRECTOR*

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS, AND "STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED 2019, AS AMENDED BY CONTRACT DOCUMENTS.

P R E P A R E D F O R

CAPITAL PROJECTS MANAGER: PINAL GANDHI-SAVDAS

SHEET NO.
LD-1

LANDSCAPE GENERAL NOTES

1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 12" OF TOPSOIL.
2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
4. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
5. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
6. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
7. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA 2) TO PROTECT ALL OF THE UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY TO MAINTAIN HEALTHY PLANT CONDITIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS UNTIL FINAL ACCEPTANCE.
12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
13. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING NORMAL PLANTING SEASON.
14. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
16. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER TO A MINIMUM DEPTH OF THREE (3) INCHES.
17. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
18. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II." STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
19. ALL INVASIVE/EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING.
21. DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE, WEEDING WITHIN THE MEDIAN TO BE CONDUCTED ONCE A MONTH BY HAND.
22. DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE, LITTER IS TO BE REMOVED FROM THE MEDIAN ONCE A MONTH.
23. DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE, PLANTING AREAS TO BE IRRIGATED TWICE A WEEK WITH A 1/2" OF WATER PER APPLICATION FOR A TOTAL OF 1" WATER PER WEEK.
24. PROJECT SCHEDULE TO BE DETERMINED BY CITY OF STUART.
25. PLANT HEIGHT AND SPREAD SHALL TAKE PRECEDENCE OVER CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO BE FLORIDA NO. 1 AND MEET ALL SPECIFICATIONS PROVIDED.
26. ALL PROPOSED LANDSCAPE PLANTING AREAS TO BE EXCAVATED TO A MINIMUM DEPTH OF 12" AS NECESSARY TO CONTAIN APPROPRIATE PLANTING MIX AS SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES, IRRIGATION LINES, WIRING, LIGHTING, STRUCTURES, LANDSCAPE, ETC. WHICH ARE SCHEDULED TO BE RETAINED/REUSED.
27. CONTRACTOR TO FIELD LOCATE ALL VEGETATION IN MEDIANS WITHIN PROJECT LOCATIONS DENOTED ON THE PLANS. PROTECT ALL EXISTING TREES CALLED OUT TO REMAIN PER PLANS AND DETAILS (CONTRACTOR LIABLE FOR DAMAGE). CONTRACTOR TO REMOVE ALL OTHER VEGETATION IN PROJECT LOCATIONS AND DISPOSE IN A SUSTAINABLE MANNER. CONTRACTOR IS NOT TO IMPACT ANY UTILITIES (ELECTRIC, IRRIGATION, ETC.) THROUGH VEGETATION REMOVAL AND SHALL BE REQUIRED TO REPAIR ANY DAMAGE (AT THE CONTRACTOR'S EXPENSE) TO MEET LANDSCAPE ARCHITECT/OWNER'S SATISFACTION.
28. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE DONE TO THE FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
29. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE TREASURE COAST OPERATION CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.
30. ALL LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN FDOT RIGHT-OF-WAY SHALL COMPLY WITH CURRENT APPLICABLE FDOT STANDARD SPECIFICATIONS 580.
31. ALL LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN FDOT RIGHT-OF-WAY SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 580-001.
32. ANY EXISTING SECTION CORNER, QUARTER SECTION CORNER AND MARTIN COUNTY SURVEY CONTROL MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHALL HAVE A PROFESSIONAL LAND SURVEYOR REFERENCE IT PRIOR TO CONSTRUCTION, AND RESET IT AFTER CONSTRUCTION.
33. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DISTURBED, AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
34. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHOULD NOTIFY:

    MARK MAINTENANCE SECTION
    GEODETIC INFORMATION CENTER ATTN: N/CG-162
    ROCKVILLE, MARYLAND 20852
    TELEPHONE: 301-443-8319

35. CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NOS. 600 THRU 660 AND SHALL PROVIDE ALL BARRICADES, LIGHTING, CHANNELIZING DEVICES, TEMPORARY PAVEMENTS, TEMPORARY SIGNALS, ATTENUATORS, VARIABLE MESSAGE SIGNS, SIGNAGE AND FLAG MEN AS NECESSARY OR ANYTHING ELSE THAT MAY BE REQUIRED TO MEET FDOT INDEX 600 TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE AREA OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT ROADWAY & TRAFFIC DESIGN STANDARDS AND SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL PREPARE & SUBMIT SIGNED & SEALED TRAFFIC CONTROL PLANS TO FDOT & CITY OF STUART FOR APPROVAL PRIOR TO THE BEGINNING OF CONSTRUCTION. LANE CLOSURES ALONG U.S. HIGHWAY 1 WILL NOT BE ALLOWED DURING PEAK HOUR OPERATIONS (7-9AM & 4-6PM). ALL PROPOSED LANE CLOSURES SHALL BE APPROVED IN ADVANCE BY THE FDOT TREASURE COAST OPERATIONS ENGINEER.
36. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE NOTED.
37. DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
38. EXISTING UTILITIES ARE TO BE ADJUSTED OR RELOCATED BY OTHERS AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
39. IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
    A. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.
    B. FOR EXISTING UTILITY SYMBOLS, SEE FDOT STANDARD INDEX 002.
    C. WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY H.R.S., AND THE LOCAL UTILITY DEPARTMENT OWNING THE FACILITIES.
40. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD OR UNDERGROUND UTILITIES.
41. CONTRACTOR SHALL NOTIFY SUNSHINE STATE "ONE CALL" 1-800-432-4770 AND ALL AFFECTED UTILITIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION SO THAT A COMPANY REPRESENTATIVE MAY BE PRESENT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

LANDSCAPE GENERAL NOTES

SHEET NO.
LD-2

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LANDSCAPE GENERAL NOTES

42. EXISTING UTILITY OWNERS:

MARTIN COUNTY UTILITIES	DAREN BROTHERS	772-221-1400
MARTIN COUNTY BOARD OF COMMISIONERS	DAMIAN BONO	772-288-5528
COMCAST	JOHN STRAHN	561-227-3417
AT&T	DINO FARRUGGIO	561-997-0240
CITY OF STUART	CHAD HERZOG	772-288-5331
CENTURY LINK	GEORGE MCELVAIN	303-992-9931
SPRINT	JON BAKER	N/A
CITY GAS COMPANY OF FL	RON MULLER	321-638-3424
FLORIDA POWER & LIGHT	JOEL BRAY	386-586-6403
MCI	DEAN BOYER	469-886-4238

43. CONTRACTOR SHALL EXERCISE CAUTION WHILE REMOVING AND/OR RELOCATING EXISTING SIGNS IN ORDER TO PREVENT ANY UNNECESSARY DAMAGE TO THE SIGNS. SIGNS WHICH ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

44. SODDED AREAS WILL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 105 AND STANDARD SPECIFICATIONS SECTIONS 162, 570, 981, 982, 983 AND 987 OF LATEST EDITION OF THE GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS SHALL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.

45. THE FLORIDA DEPARTMENT OF TRANSPORTATION IS THE OWNER OF U.S. HIGHWAY 1. THE CITY OF STUART WILL BE RESPONSIBLE FOR MAINTENANCE ASSOCIATED WITH THE PROPOSED LANDSCAPE IMPROVEMENTS.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

LANDSCAPE GENERAL NOTES

SHEET NO.
LD-3

SUMMARY OF PAY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
	SITE DEVELOPMENT		
101-1A	MOBILIZATION/DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2A	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
110-1-1	STANDARD CLEARING & GRUBBING	LS	1
110-4-10	REMOVAL OF EXIST CONCRETE	SY	808
162-1-3	PREPARED SOIL LAYER (12" DEPTH)	CY	875
522-1	CONCRETE SIDEWALK (4" THICK)	SY	6
523-2	STAMPED CONCRETE (4" THICK, 45° HERRINGBONE PATTERN, RED BRICK COLOR	SY	445
580-1-A	MULCH (EARTHWISE MULCH)	CY	220
580-4-483	ROYSTONEA REGIA / ROYAL PALM (FG, 10' GW MIN., STRAIGHT, SINGLE, FL #1)	EA	11
580-5-693	JATROPHA INTEGERRIMA / JATROPHA TREE (30 GAL, 2" CAL MIN., 8' HT MIN.)	EA	4
580-6-292	FURCRAEA FOETIDA / MAURITIUS HEMP (15 GAL, 36" FULL)	EA	60
580-7-253	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS (3 GAL, 18" FULL)	EA	158
580-7-383	IXORA CHINENSIS / CHINESE IXORA (3 GAL, 18" FULL)	EA	396
580-7-393	SCHEFFLERA ABORICOLA 'TRINETTE' / SCHEFFLERA (3 GAL, 18" FULL)	EA	91
580-7-403	ZAMIA FLORIDANA / COONITE PALM (3 GAL, 30" FULL)	EA	894
580-7-413	BOUGAINVILLEA X 'HELEN JOHNSON' - COMPACT BOUGAINVILLEA (3 GAL, 12" FUL	EA	1,209
580-7-423	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA (3 GAL, 18" FULL)	EA	1,105
580-7-433	NEOMARICA GRACILIS / WALKING IRIS (3 GAL, 18" FULL)	EA	438
590-1	IRRIGATION (COMPLETE SYSTEM, F&I)	LS	1
1050-42-202	UTILITY PIPE (HDPE) (2" WM) (HDD)	LF	63
1080-21-102	UTILITY FIXTURE (METER BOX) (F&I) (2")	EA	1
1080-22-102	UTILITY FIXTURE (BACKFLOW ASSEMBLY) (F&I) (2")	EA	1
1080-23-112	UTILITY FIXTURE (TAPPING SADDLE/SLEEVE) (F&I) (12"X2")	EA	1

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

SUMMARY OF PAY ITEMS

SHEET NO.
LD-4



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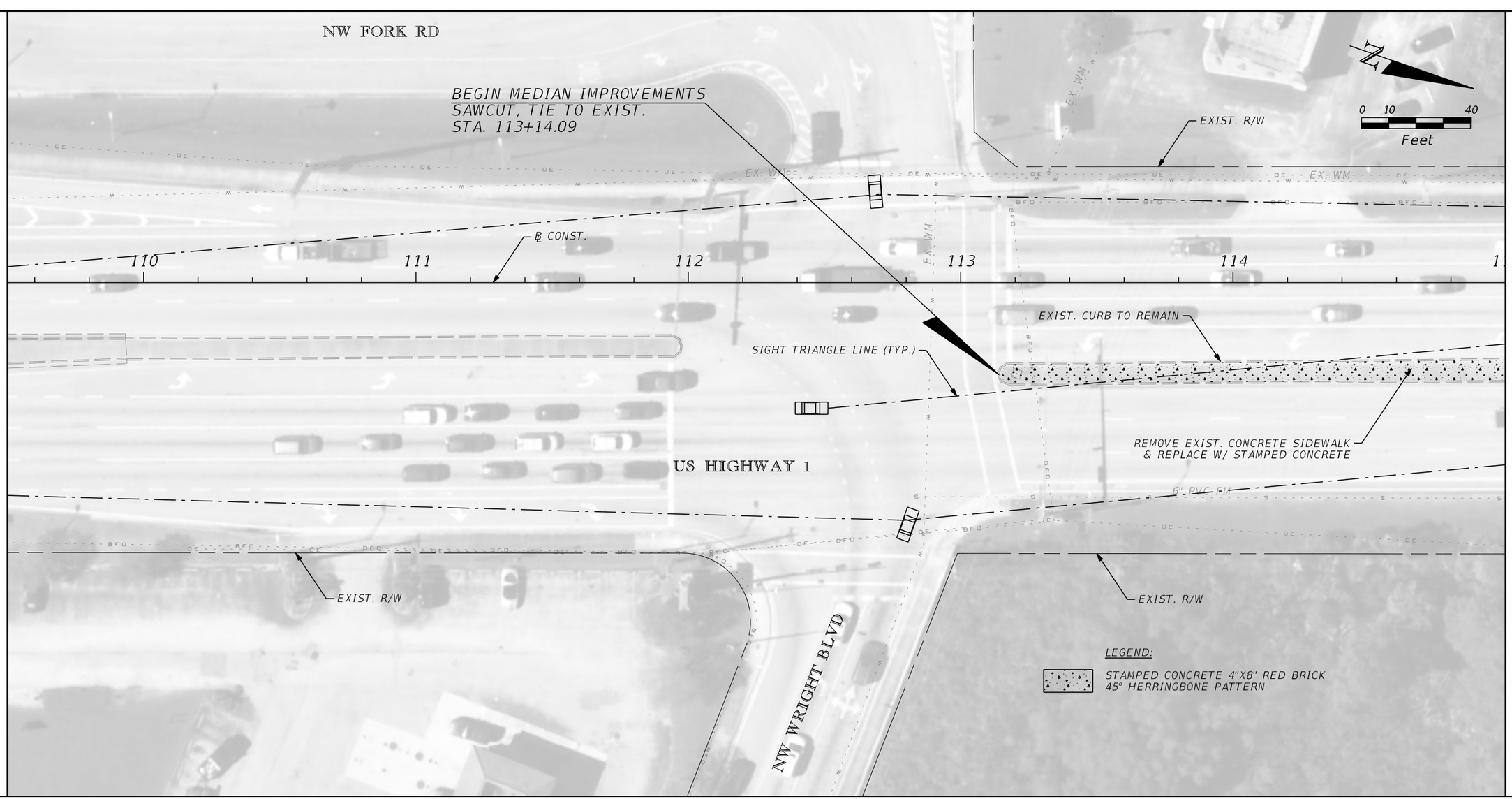
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN LAYOUT SHEET

SHEET NO.
LD-5



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	-	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	-	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	-	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
+ + + + + +	FG	-	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	-	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	-	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	-	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	-	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	-	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	-	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

REVISIONS

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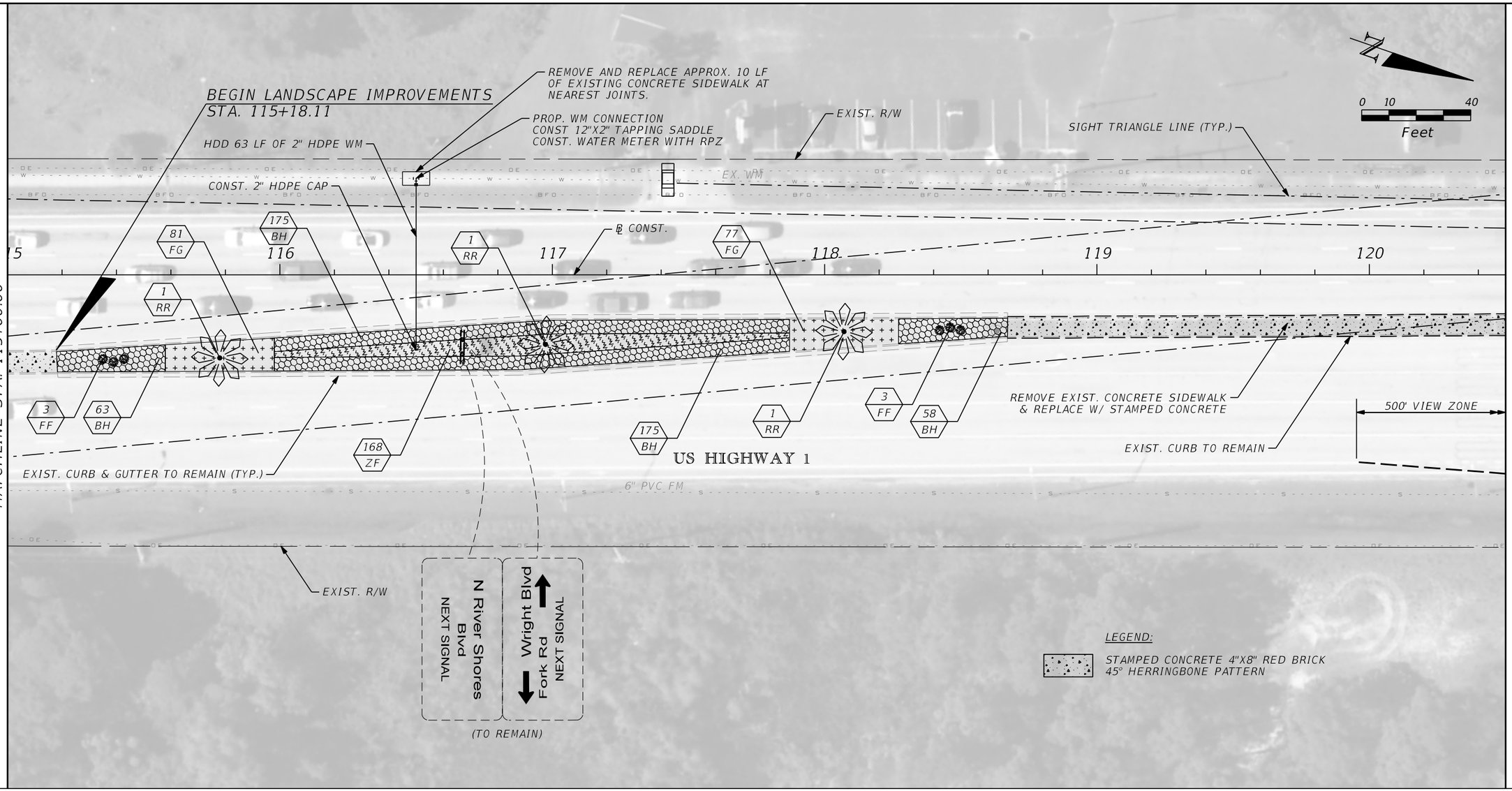
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-6



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	3	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	-	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	6	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
	FG	158	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	-	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	-	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	168	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	471	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	-	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	-	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

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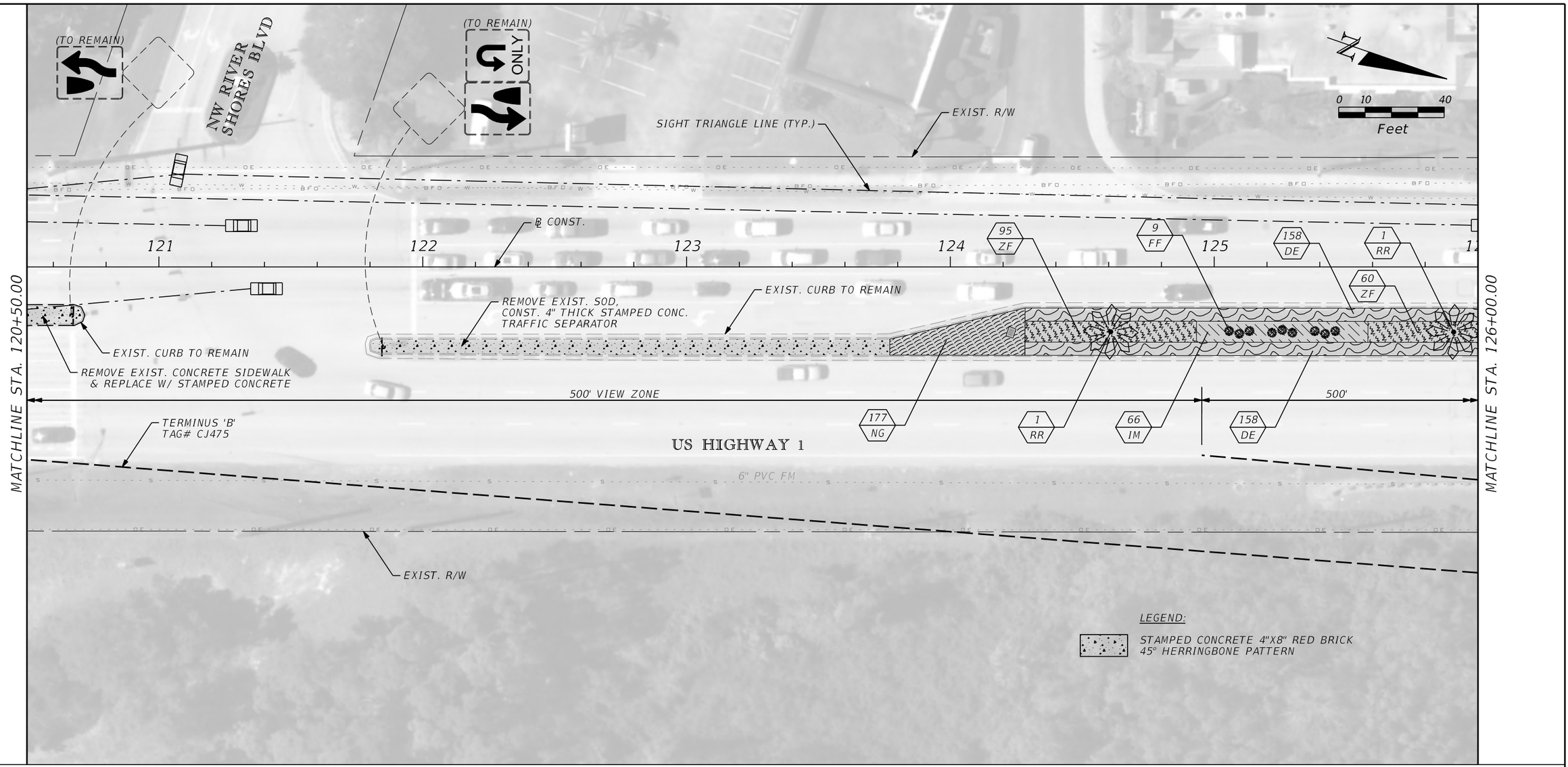
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-7



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	2	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	-	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	9	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
	FG	-	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	66	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	-	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	155	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	-	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	316	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	177	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

REVISIONS

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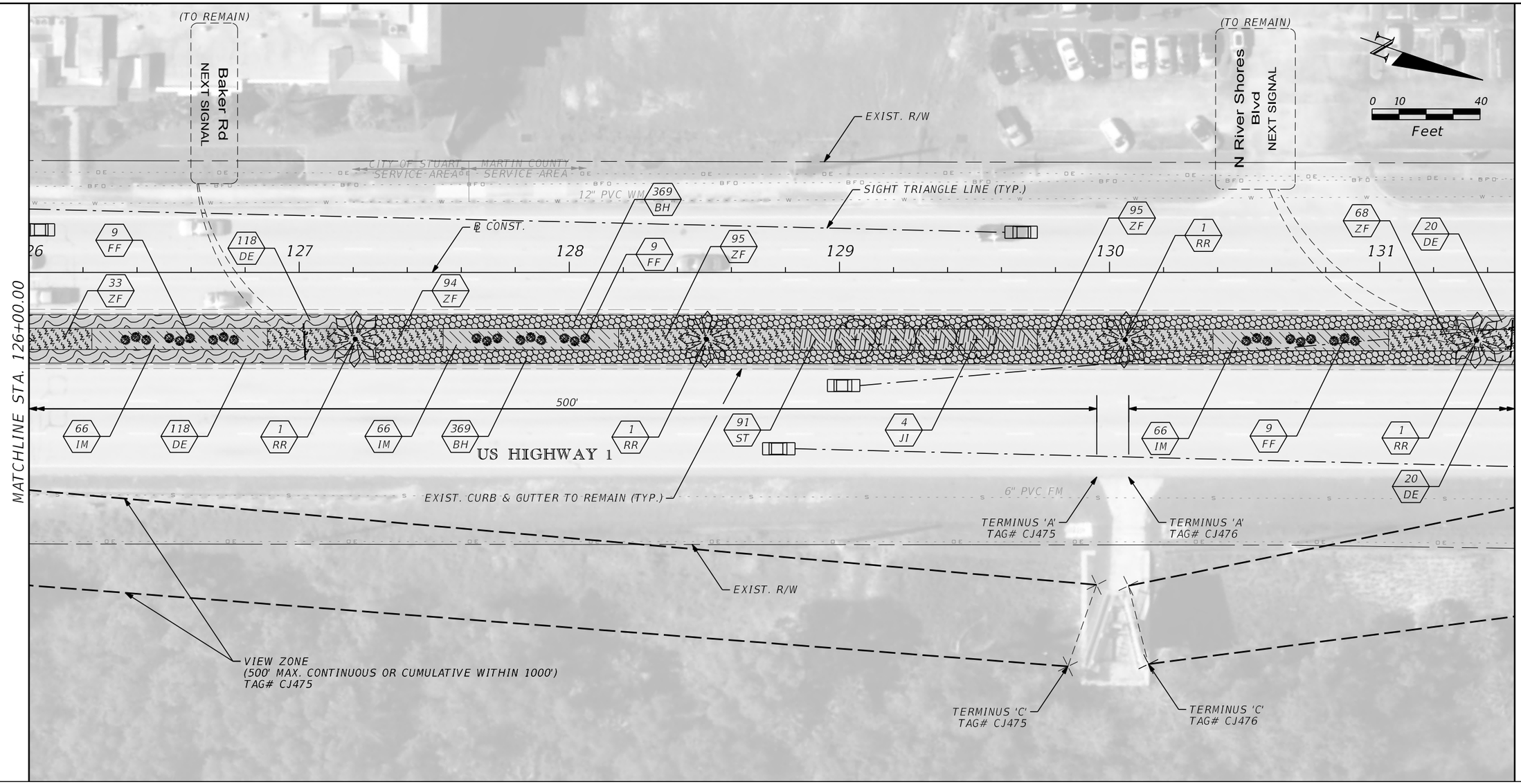
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-8



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	4	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	4	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	27	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
	FG	-	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	198	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	91	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	385	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	738	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	276	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	-	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

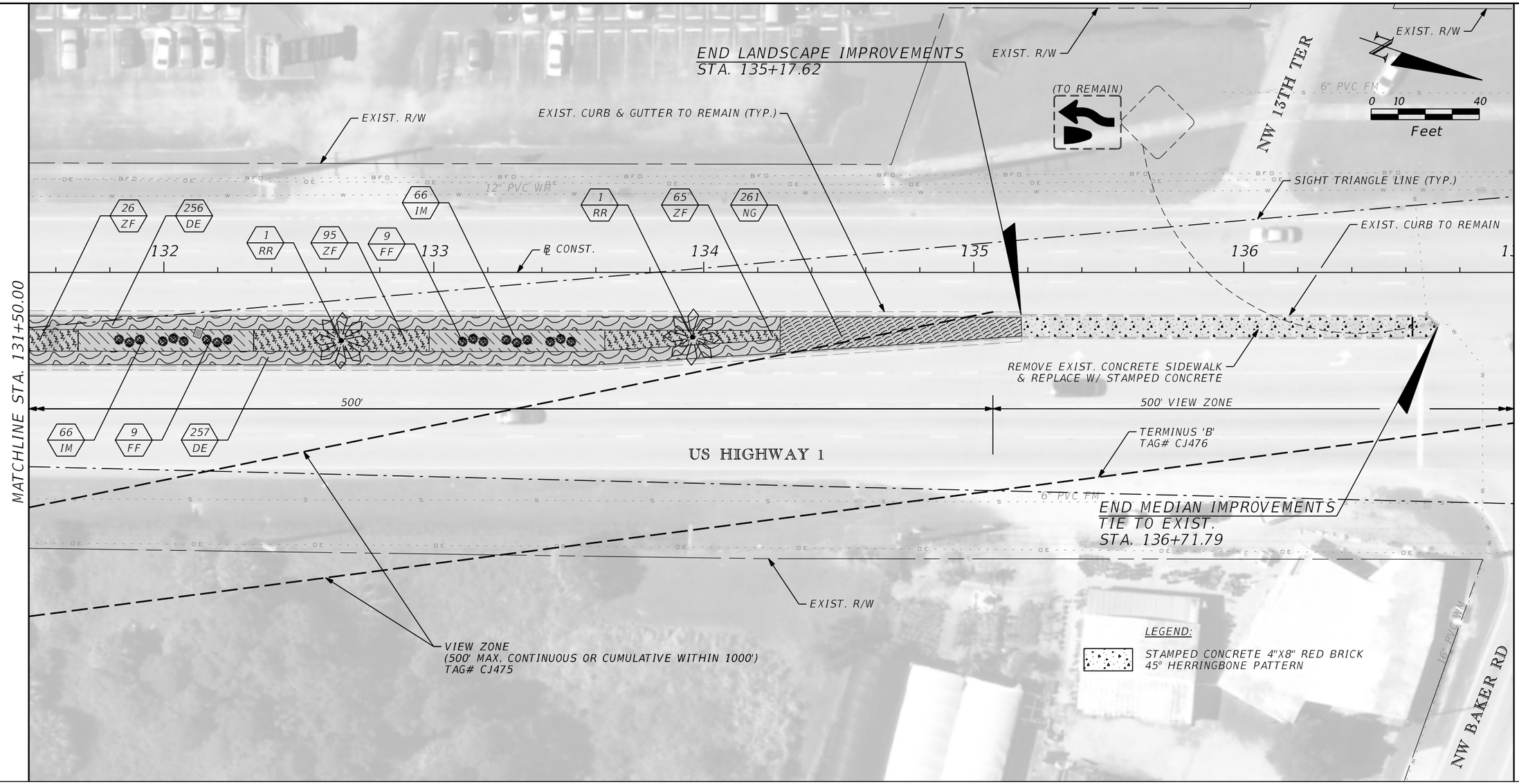
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-9



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	2	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	-	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	18	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
	FG	-	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	132	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	-	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	186	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	-	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	513	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	261	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

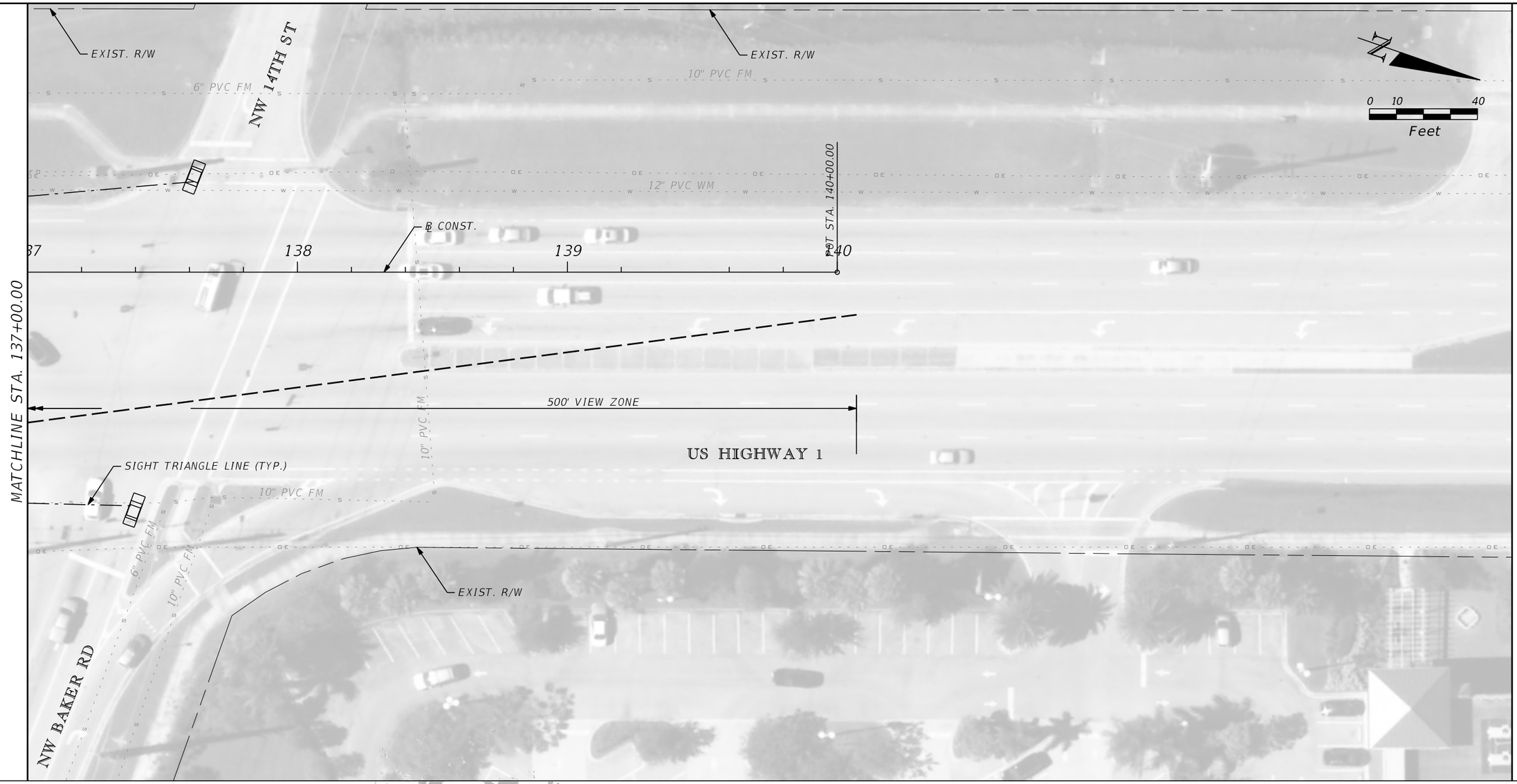
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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-10



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	RR	-	ROYSTONEA REGIA / ROYAL PALM	FG, 10' GW MIN, STRAIGHT, SINGLE, FL #1, MATCHING
	JI	-	JATROPHA INTEGERRIMA / JATROPHA TREE	30 GAL, 2" CAL MIN, 8' HT MIN, STANDARD, STRAIGHT, FL #1
	FF	-	FURCRAEA FOETIDA / MAURITIUS HEMP	15 GAL, SEE PLAN, 36" FULL
	FG	-	FICUS MICROCARPA 'GREEN ISLAND' / GREEN ISLAND FICUS	3 GAL, 18" FULL, 30" OC, 30" OC
	IM	-	IXORA CHINENSIS / CHINESE IXORA	3 GAL, 18" FULL, 36" OC, 36" OC
	ST	-	SCHEFFLERA ARBORICOLA 'TRINETTE' / SCHEFFLERA	3 GAL, 18" FULL, 36" OC, 36" OC

SYMBOL	CODE	QTY	BOTANICAL NAME / COMMON NAME	REMARKS
	ZF	-	ZAMIA FLORIDANA / COONTIE PALM	3 GAL, 30" FULL, 30" OC, 30" OC
	BH	-	BOUGAINVILLEA X 'HELEN JOHNSON' / COMPACT BOUGAINVILLEA	3 GAL, 12" FULL, 30" OC
	DE	-	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL, 18" FULL, 30" OC
	NG	-	NEOMARICA GARCILIS / WALKING IRIS	3 GAL, 18" FULL, 24" OC

REVISIONS

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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

PLAN SHEET

SHEET NO.
LD-11

PART 1: GENERAL CONDITIONS

1.01 SCOPE:
A. 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 all plants on the landscape plans.

1.02 AGENCY STANDARDS:
A. 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:
A. The Landscape Contractor shall personally examine the site and fully acquaint him/herself with all of the existing conditions in order that no misunderstanding 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 and/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.

1.04 ERRORS AND OMISSIONS:
A. 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 as located on the drawings. The Landscape Contractor is responsible for his/her own quantity count. If there is a discrepancy between drawings and plant list, the drawing shall be considered as correct.

B. 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 actions necessary to each query.

C. If plans and specifications are found to disagree after the contract is awarded, the Landscape Architect shall be the judge as to what was intended.

1.05 EXECUTION OF THE WORK:
A. The Landscape Contractor shall have his labor crews controlled and directed by a Foreman well versed in plant materials, planting methods, reading blueprints, and coordination between job and nursery in order to execute installation correctly and in a timely manner.

B. The Landscape Contractor shall provide a competent English-speaking Superintendent on the project at all times, who shall be fully authorized as the Contractor's agent on the work. The Superintendent shall be capable of reading and thoroughly understanding the Plans, Specifications and other Contract Documents. If the Superintendent is deemed incompetent by the Landscape Architect, the Superintendent shall be immediately replaced.

C. 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.

1.06 PROTECTION OF PUBLIC AND PROPERTY:
A. 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:
A. 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 the Owner's discretion.

1.08 GUARANTEE:
A. The Landscape Contractor shall furnish a written guarantee warranting all materials, workmanship and plant materials, except sod, for a period of ONE (1) YEAR 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 lightning, hurricane force winds, or any other acts of God, as well as vandalism or lack of proper maintenance.

B. 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 replacement plant fail to survive.

C. All replacements shall be plants of the same kind and size as specified in the plant list. They shall be furnished and planted as specified.

1.09 CARE AND MAINTENANCE:
A. The Landscape Contractor shall be responsible for the care and maintenance of all plant materials until final acceptance by the Owner or Landscape Architect.

B. Upon final acceptance of the work, the Landscape Contractor shall furnish the Owner with a written and detailed description for the care and maintenance of all plant material at the time of final acceptance.

C. The Owner agrees to execute the instructions for such care and maintenance.

1.10 SAFETY:
A. It 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.

B. 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:
A. 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 listing of not less than three (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 name.

1.12 PERMITS AND CERTIFICATES:
A. All contractors shall secure and pay for all permits and certificates required for his/her class of work.

PART 2: MATERIALS

2.01 PLANT MATERIALS:
A. 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.

B. Substitutions: Substitutions of plant materials or changes in size or spacing of materials will be permitted ONLY upon written 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 Landscape Contractor prior to issuance of any change order. If material of smaller size is to be accepted, the quantity of the material shall be increased at no additional cost to the Owner, to meet the intent of the drawings.

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 measurements 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.

D. 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, Part I revised edition 1973, and Grades and Standards for Nursery Plants, Part II, for Palms and Trees, revised edition 1972. (Updated May 2005).

E. Plants that do not have the normal balance of height and spread typical for the respective plant shall not be acceptable.

F. 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.

2.02 INSPECTION
A. The Landscape Architect and/or Owner may inspect trees and shrubs at place of growth or at project site prior to planting, for compliance with requirements for genus, species, variety, size and quality. The Landscape Architect and/or Owner retain the right to further inspect trees and shrubs for size and condition of root ball 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.

2.03 PROTECTION OF PLANT MATERIALS:
A. 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. Root ball shall be firmly wrapped with burlap or similar materials, and bound with cord, rope, or wire mesh. All collected plants shall be balled and burlapped.

B. Plants with broken, damaged or insufficient root balls will be rejected.

C. All plant material shall be protected from possible bark injury or breakage of branches. All plants transported by open trucks shall be adequately covered to prevent windburn, drying or damage to plants.

D. 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.

2.04 STORAGE:
A. All plant materials shall be stored on the site in designated areas, specified by the Landscape Architect or Owner's agent.

B. No plant material shall be stored longer than seventy-two (72) hours.

C. The Landscape Architect reserves the right to reject any plant materials not in conformance with these specifications.

D. All rejected material shall be immediately removed from the site and replaced with acceptable material at no cost to the Owner.

2.05 PROTECTION DURING PLANTING:
A. 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.

2.06 PLANTING SOIL:
A. Planting soil for all plantings shall consist of existing native soil and shall be free of debris, roots, clay, stones, plants or other foreign materials which might be a hindrance to planting operations or be detrimental to good growth. All undesireable backfill to be removed from planting areas/islands.

B. Planting soil backfill for raised planters, if applicable, shall consist of 40% potting soil, 40% builders sand and 20% perlite.

C. Planting soil ph (potential of hydrogen) to be suitable for plant materials or modified to meet the appropriate (ph) range with soil amendments.

2.07 FERTILIZER:
A. Commercial slow release fertilizer shall comply with the state fertilizer laws. A 12-4-12 blend with minors shall be applied to the outside portion of the root ball and up to twelve inches (12") beyond the edge of the root ball. Any fertilizer that becomes caked or otherwise damaged shall be rejected.

B. Fertilizer application is at or shortly after planting for a one year establishment period.

C. Fertilizer rate is for trees that do not systematically receive turf fertilizer in accordance with the following rates:

Diameter of Canopy	Rate per Tree
3'	0.53 lbs
4'	0.95 lbs
5'	1.47 lbs
6'	2.12 lbs
7'	2.89 lbs
8'	3.78 lbs
9'	4.78 lbs
10'	5.91 lbs

The Landscape Architect reserves the right to inspect and review the application of fertilizer.

2.08 MULCH:
A. Mulch material shall be clean, Earthwise Mulch free of weeds, seeds and pests, and shall contain no Cypress. Mulch to be moistened at the time of application. Keep mulch at six inches (6") minimum from trunk.

B. All trees and shrub beds shall receive 3" mulch immediately after planting. Provide thin layer of mulch over the root ball. Tree mulch circles to be minimum six feet (6') diameter.

PART 3: EXECUTION
3.01 DIGGING:
A. 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 Landscape Architect shall be consulted and will adjust the location of plants to clear such obstruction. The Contractor shall be responsible for the immediate repair of any damage caused by his or her work.

3.02 GRADING:
A. Grading for drainage, swales, etc. to be provided by others to within two inches (2") of the finished grade.

B. 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 site 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:
A. Planting shall take place during favorable weather conditions. Thoroughly wet root ball prior to planting.

B. The Contractor shall ascertain the location of all utilities and easements so proper precautions can be taken not to damage or encroach on them.

C. 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 Landscape Contractor.

D. Excavation of holes shall extend to the required subgrades as specified on the planting details located in the planting plans. Plant pits shall be circular in outline and shall have a profile which conforms to the aforementioned "Tree and Shrub Planting Details".

E. A representative number of planting pits (a minimum of one per 25 feet throughout the entire site) shall be tested for proper drainage. See Landscape Details and Section 4.0 for complete testing methods and requirements.

F. Planting pits shall be excavated to the following dimensions (1.5 times root ball width), and refilled with existing native soil;

1 Gallon material: 12" diameter
3 Gallon material: 18" diameter
7 Gallon material: 20" diameter
10 Gallon material: 24" diameter
15 Gallon material: 26" diameter
30 Gallon material: 35" diameter
45 Gallon material: 45" diameter
65 Gallon material: 53" diameter
100 Gallon material: 63" diameter
200 Gallon material: 72" diameter
Field grown material and trees: 1.5 times width of root ball (light, coarse texture soil)
Field grown material and trees on slope: 2.5 times width of root ball (light, coarse texture soil)

REVISIONS					
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CITY OF STUART
US HIGHWAY 1
LANDSCAPE PLANS

LANDSCAPE SPECIFICATIONS

SHEET NO.
LD-12

G. No planting or laying of sod shall be initiated until the area has been cleaned of existing sod or other plant materials, rough grass, weeds, debris, stones etc., and the ground has been brought to an even grade approved by the Landscape Architect.

H. Each plant shall be planted in an individual hole as specified for trees, shrubs, and vines. Manually or mechanically (tractor forks) lift/roll the root ball into the hole. Do NOT cinch the trunk. Remove air pockets during watering.

I. All plants shall be set in center of hole 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 root ball and removed from the planting hole before backfilling.

J. All flagging ribbon shall be removed from trees and shrubs before planting.

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

L. All palms shall be planted in sand, thoroughly washed in during planting operations, and with a shallow saucer depression left at the soil line for future waterings.

3.04 PRUNING:

A. Remove dead and broken branches from all plant material. Prune only as required to retain typical growth habit of individual plants with as much height and spread as possible. Prune only in a manner which will preserve the plant's natural character.

B. Make all cuts with sharp instruments and flush with trunk or adjacent branch, in such a manner as to insure elimination of stubs. Cuts made at right angles to line of growth will not be permitted.

C. Trees shall not be hat racked, topped or otherwise trimmed into unnatural shapes.

D. Remove all trimmings from site at time of trimming and/or daily basis.

3.05 GUYING:

A. All trees over eight feet (8') in height shall, immediately after setting to proper grade, be guyed with one inch (1") wide polypropylene strapping as per the planting details.

B. Trees between 1" caliper to less than or equal to 2" caliper to be staked with a minimum of one vertical 2" x 2" P.T. wood stake with approved straps as per the planting details.

D. Trees larger than 2" caliper to less than or equal to 4" caliper to be staked with three (3) 'Arborbrace' anchors/strapping or approved equivalent as per the planting details.

E. Trees larger than 4" caliper to be staked with four (4) 'Arborbrace' anchors or approved equivalent.

F. Stakes/anchors and guying attachments to remain in place for one growing season. Remove the attachments only after inspection of the tree for stability. Reattach if the root system moves or stem bends excessively.

3.06 WATER:

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

B. All trees shall be deep watered for a period of ninety (90) days after planting. (see water application schedule)

C. Water shall be potable and furnished by Indian River County unless contracted otherwise.

3.09 SITE CLEAN UP:

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

3.10 MAINTENANCE:

A. 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.

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

C. 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.

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

E. Trees or other plant material which fall or are blown over during the maintenance period will be reset by the Landscape Contractor at no additional expense to the Owner. Hurricane force wind damage is the only exception to the wind damage rule.

3.11 COMPLETION, INSPECTION AND ACCEPTANCE:

A. 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 Contractor.

B. Inspection of work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Landscape Architect. The Landscape Contractor shall notify the Landscape Architect and request final inspection upon completion of the work.

C. All plant material shall be alive and in good growing condition for each specified kind of plant at inspection and acceptance. The grading 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 Specifications at the time of final inspection.

D. The Landscape Contractor shall be notified by the Landscape Architect of the acceptance of all plant material and workmanship, exclusive of the possible replacement of plants subject to guarantee.

4.01 DRAINAGE TESTING/DRAINAGE CHANNEL REQUIREMENTS

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

A. Dig each planting pit to the minimum specified size.

B. Fill planting pit with twelve inches (12") of water. If the four (4) hours, 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.

C. Where required, the drainage channel must extend 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 yellow sand, care must be taken to keep the consistency the same throughout the planting pit and drainage channels.

REVISIONS					
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CITY OF STUART

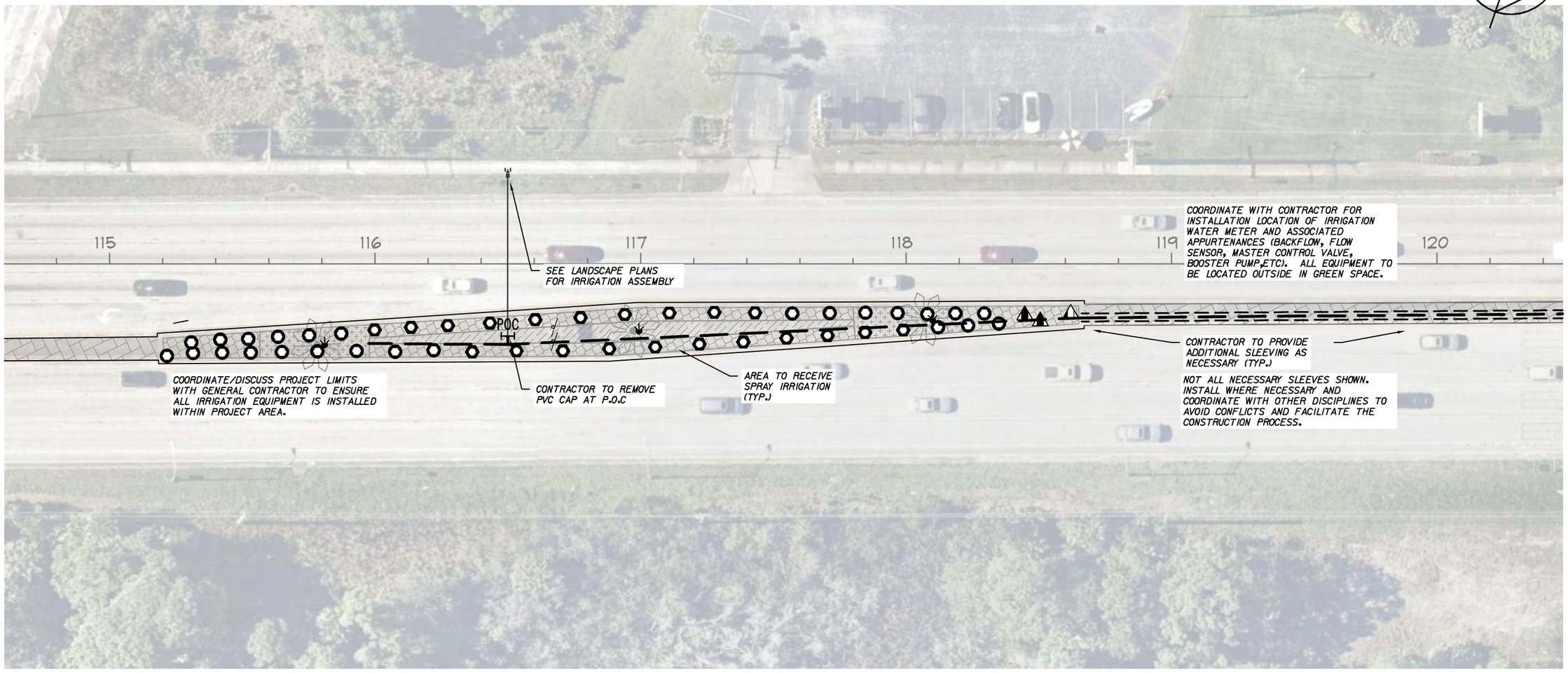
US HIGHWAY 1
LANDSCAPE PLANS

LANDSCAPE SPECIFICATIONS

SHEET NO.
LD-13

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN-LCS, R-VAN-RCS, R-VAN-SST	RAIN BIRD R-VAN-STRIP RD-06-SAM-P45 SHRUB ROTARY, 5IX15I (LCS AND RCS), 5IX30I (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	17	40
R-VAN14	RAIN BIRD R-VAN14 RD-06-SAM-P45 SHRUB ROTARY, 8I-14I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	37	40
R-VAN18	RAIN BIRD R-VAN18 RD-06-SAM-P45 SHRUB ROTARY, 13I-18I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	33	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN24 R-VAN24-360	RAIN BIRD R-VAN24 RD-06-SAM-P45 SHRUB ROTARY, 17I-24I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	101	40
1401 1402 1404 1408	RAIN BIRD 1806-PRS-1400 FLOOD 1401 FLOOD BUBBLER 6.0" POPUP WITH PRESSURE REGULATING DEVICE.	15	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
POC	POINT OF CONNECTION 2"	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,842 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	313.1 L.F.

IRRIGATION SYSTEM USAGE:

+/- 0.073 AC x 43,560 = 3,180 SF
3,180 SF x .0875 = 278.24 CF (ASSUMING 1.05" OF IRRIGATION PRECIPITATION)
278.24 CF x 7.854 (GALLONS TO COVER 1.05") = 2,185 GALLONS
(COVER SITE WITH 1.05" OF IRRIGATION PRECIPITATION)

2,185 GALLONS / 7 DAYS = 312 GALLONS PER DAY (+/-)
312 GALLONS PER DAY x 30.4 = 9,489 GALLONS PER MONTH (+/-)
9,489 GALLONS PER MONTH x 12 = 113,870 GALLONS PER YEAR (+/-)

FLOW TOTALS
Bubbler: 15.0
Shrub Rotary: 217.0
Total: 232.0 GPM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CERTIFICATE OF AUTHORIZATION: 00000696

CITY OF STUART

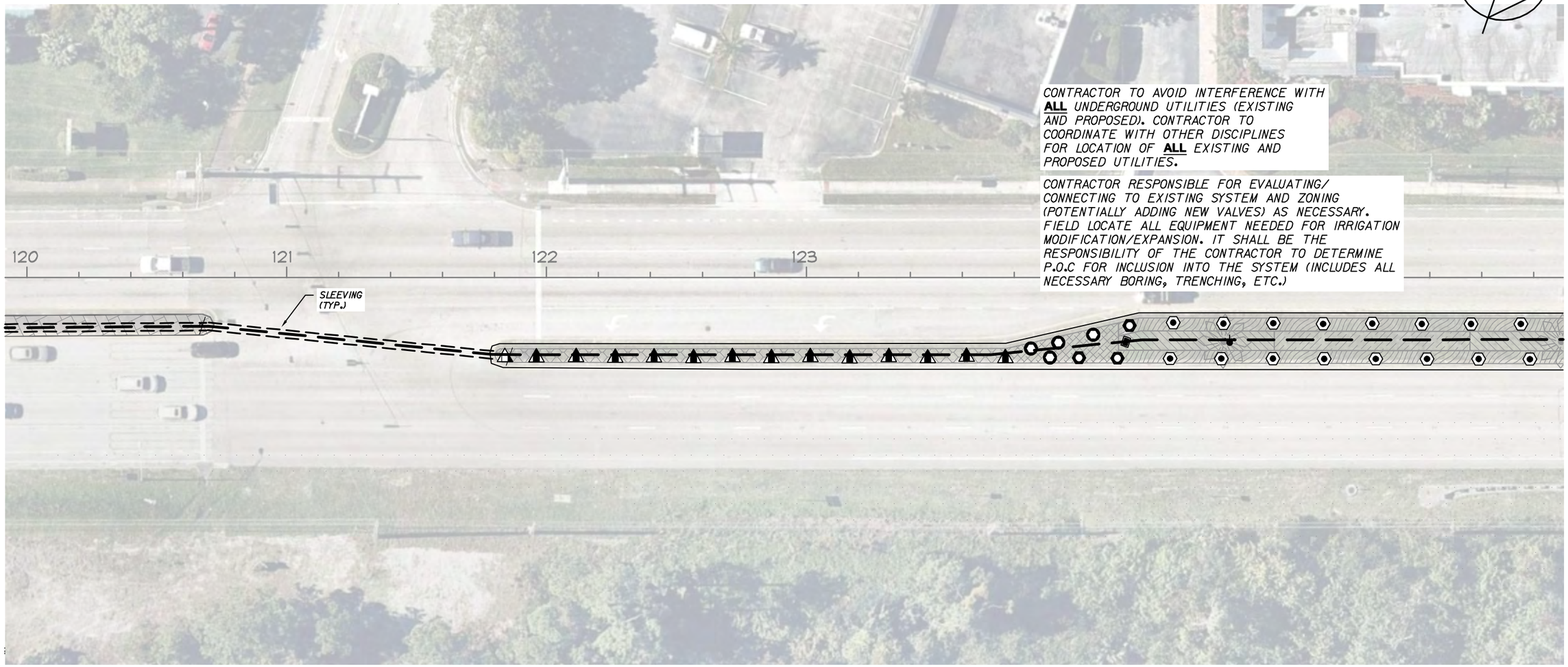
US HIGHWAY 1
IRRIGATION PLANS

PLAN SHEET

SHEET NO.
LD-14

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH



CONTRACTOR TO AVOID INTERFERENCE WITH **ALL** UNDERGROUND UTILITIES (EXISTING AND PROPOSED). CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES FOR LOCATION OF **ALL** EXISTING AND PROPOSED UTILITIES.

CONTRACTOR RESPONSIBLE FOR EVALUATING/ CONNECTING TO EXISTING SYSTEM AND ZONING (POTENTIALLY ADDING NEW VALVES) AS NECESSARY. FIELD LOCATE ALL EQUIPMENT NEEDED FOR IRRIGATION MODIFICATION/EXPANSION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE P.O.C FOR INCLUSION INTO THE SYSTEM (INCLUDES ALL NECESSARY BORING, TRENCHING, ETC.)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN-LCS, R-VAN-RCS, R-VAN-SST	RAIN BIRD R-VAN-STRIP RD-06-SAM-P45 SHRUB ROTARY, 5IX15I (LCS AND RCS), 5IX30I (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	17	40
R-VAN14, R-VAN14-360	RAIN BIRD R-VAN14 RD-06-SAM-P45 SHRUB ROTARY, 8I-14I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	37	40
R-VAN18, R-VAN18-360	RAIN BIRD R-VAN18 RD-06-SAM-P45 SHRUB ROTARY, 13I-18I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	33	40
R-VAN24, R-VAN24-360	RAIN BIRD R-VAN24 RD-06-SAM-P45 SHRUB ROTARY, 17I-24I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	101	40
1401, 1402, 1404, 1408	RAIN BIRD 1806-PRS-1400 FLOOD 1401 FLOOD BUBBLER 6.0" POPUP WITH PRESSURE REGULATING DEVICE.	15	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
POC	POINT OF CONNECTION 2"	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,842 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	313.1 L.F.

IRRIGATION SYSTEM USAGE:

+/- 0.073 AC x 43,560 = 3,180 SF
3,180 SF x .0875 = 278.24 CF (ASSUMING 1.05" OF IRRIGATION PRECIPITATION)
278.24 CF x 7.854 (GALLONS TO COVER 1.05") = 2,185 GALLONS
(COVER SITE WITH 1.05" OF IRRIGATION PRECIPITATION)

2,185 GALLONS / 7 DAYS = 312 GALLONS PER DAY (+/-)
312 GALLONS PER DAY x 30.4 = 9,489 GALLONS PER MONTH (+/-)
9,489 GALLONS PER MONTH x 12 = 113,870 GALLONS PER YEAR (+/-)

FLOW TOTALS
Bubbler: 15.0
Shrub Rotary: 217.0
Total: 232.0 GPM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF STUART

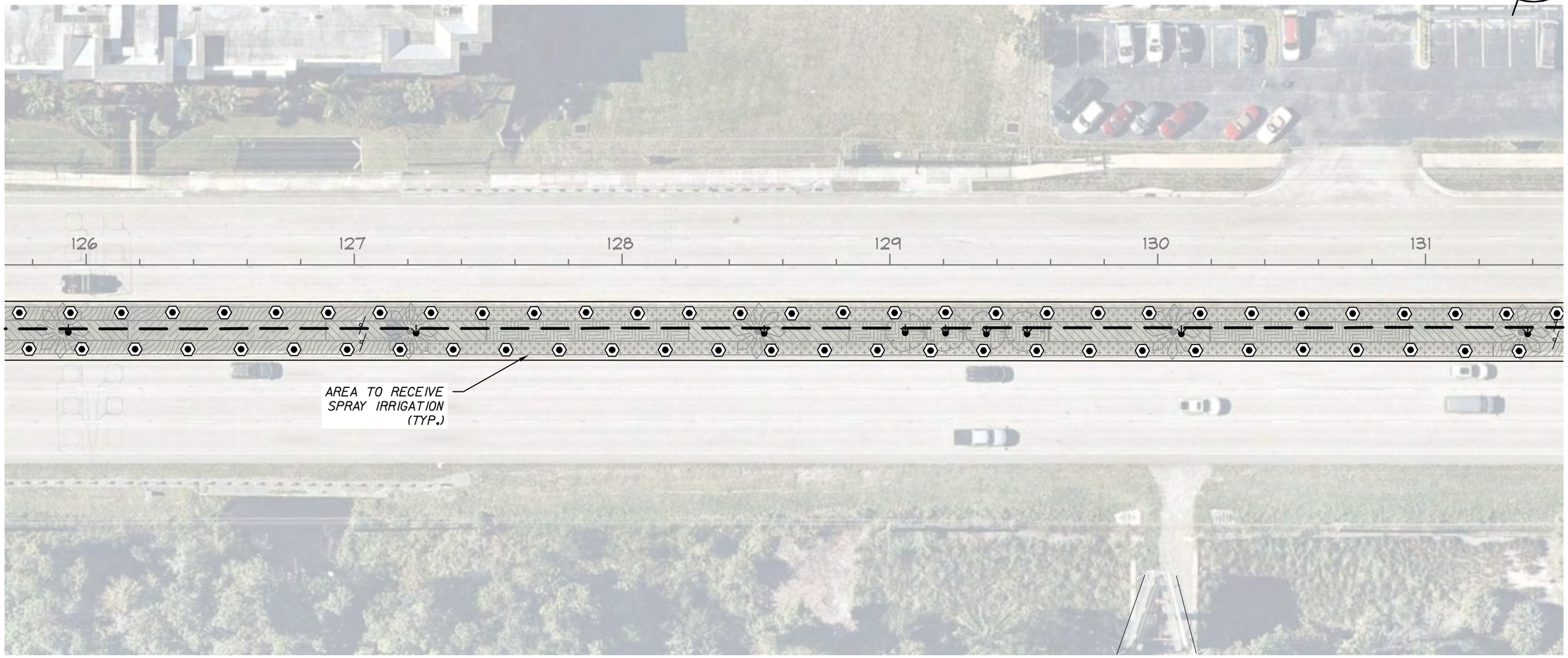
US HIGHWAY 1
IRRIGATION PLANS

PLAN SHEET

SHEET NO.
LD-15

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN-LCS R-VAN-SST R-VAN-RCS	RAIN BIRD R-VAN-STRIP RD-06-SAM-P45 SHRUB ROTARY, 5IX15I (LCS AND RCS), 5IX30I (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	17	40
R-VAN14 R-VAN14-360	RAIN BIRD R-VAN14 RD-06-SAM-P45 SHRUB ROTARY, 8I-14I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	37	40
R-VAN18 R-VAN18-360	RAIN BIRD R-VAN18 RD-06-SAM-P45 SHRUB ROTARY, 13I-18I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	33	40
R-VAN24 R-VAN24-360	RAIN BIRD R-VAN24 RD-06-SAM-P45 SHRUB ROTARY, 17I-24I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	101	40
1401 1402 1404 1408	RAIN BIRD 1806-PRS-1400 FLOOD 1401 FLOOD BUBBLER 6.0" POPUP WITH PRESSURE REGULATING DEVICE.	15	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
POC	POINT OF CONNECTION 2"	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,842 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	313.1 L.F.

IRRIGATION SYSTEM USAGE:

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FLOW TOTALS
Bubbler: 15.0
Shrub Rotary: 217.0
Total: 232.0 GPM

REVISIONS					
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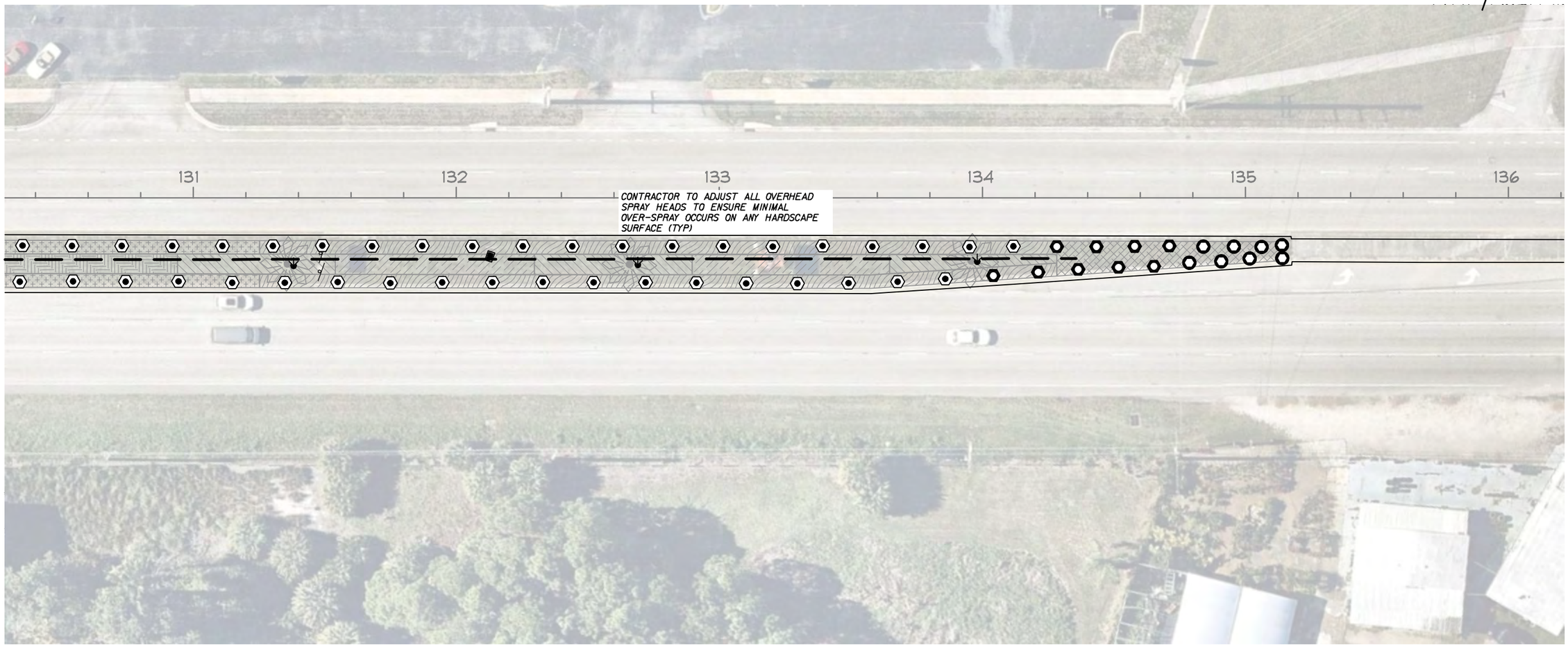
US HIGHWAY 1
IRRIGATION PLANS

PLAN SHEET

SHEET NO.
LD-16

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN-LCS R-VAN-RCS R-VAN-SST	RAIN BIRD R-VAN-STRIP RD-06-SAM-P45 SHRUB ROTARY, 5IX15I (LCS AND RCS), 5IX30I (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	17	40
R-VAN14 R-VAN14-360	RAIN BIRD R-VAN14 RD-06-SAM-P45 SHRUB ROTARY, 8I-14I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	37	40
R-VAN18 R-VAN18-360	RAIN BIRD R-VAN18 RD-06-SAM-P45 SHRUB ROTARY, 13I-18I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	33	40
R-VAN24 R-VAN24-360	RAIN BIRD R-VAN24 RD-06-SAM-P45 SHRUB ROTARY, 17I-24I 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RDI800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	101	40
1401 1402 1404 1408	RAIN BIRD 1806-PRS-1400 FLOOD 1401 FLOOD BUBBLER 6.0" POPUP WITH PRESSURE REGULATING DEVICE.	15	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
POC	POINT OF CONNECTION 2"	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,842 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	313.1 L.F.

IRRIGATION SYSTEM USAGE:

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FLOW TOTALS
Bubbler: 15.0
Shrub Rotary: 217.0
Total: 232.0 GPM

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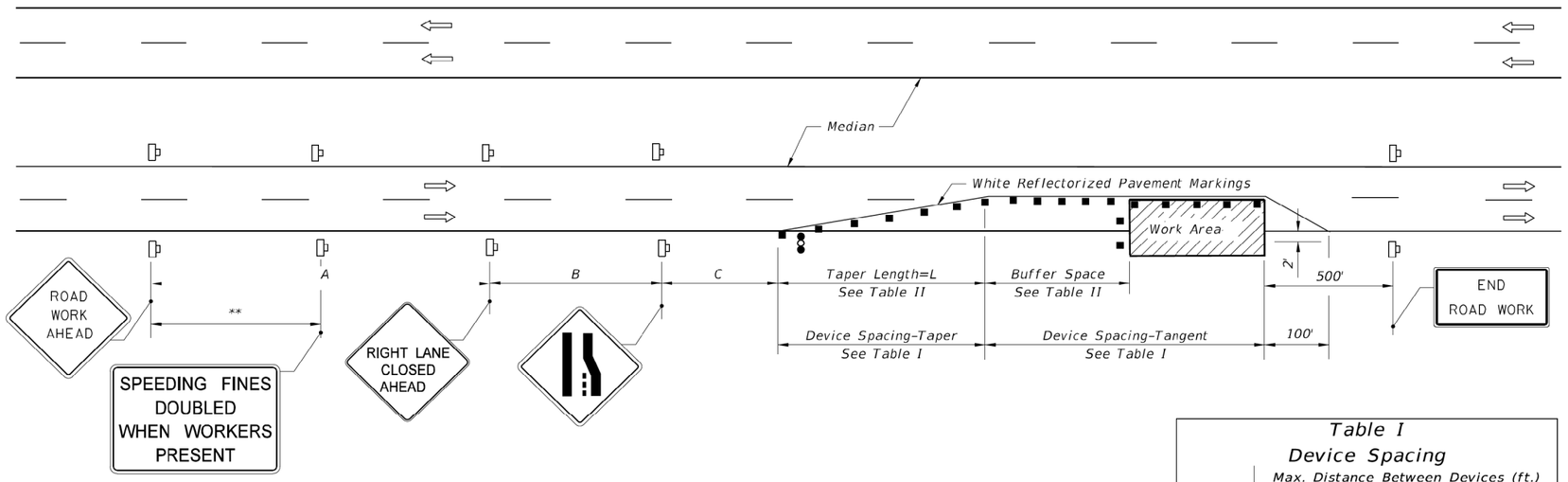
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CITY OF STUART

US HIGHWAY 1
IRRIGATION PLANS

PLAN SHEET

SHEET NO.
LD-17



DISTANCE BETWEEN SIGNS			
Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
*55 mph or greater	2640	1640	1000

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED ½ MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Advance Warning Arrow Board

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. On undivided highways the median signs as shown are to be omitted.
3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

   The same applies to undivided highways with the following exceptions:
   a. Work shall be confined within one median lane.
   b. Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

   When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index 102-614.
9. For general TCZ requirements and additional information, refer to Index 102-600.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Buffer Space and Taper Length			
Speed (mph)	Buffer Space	Taper Length (12' Lateral Transition)	
	Dist. (ft.)	L (ft.)	Notes (Merge)
25	155	125	$L = \frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	
45	360	540	L = WS
50	425	600	
55	495	660	
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use formula for L shown in notes column.
Where:

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

DURATION NOTES

1. Temporary white edgeline may be omitted for work operations less than 3 consecutive calandar days.
2. For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
   a. Speed limit is 45 mph or less.
   b. No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
   c. Volume and complexity of the roadway has been considered.
   d. The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
3. For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

10/23/2017 10:22:31 AM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	FDOT FY 2018-19 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX 102-613	SHEET 1 of 2

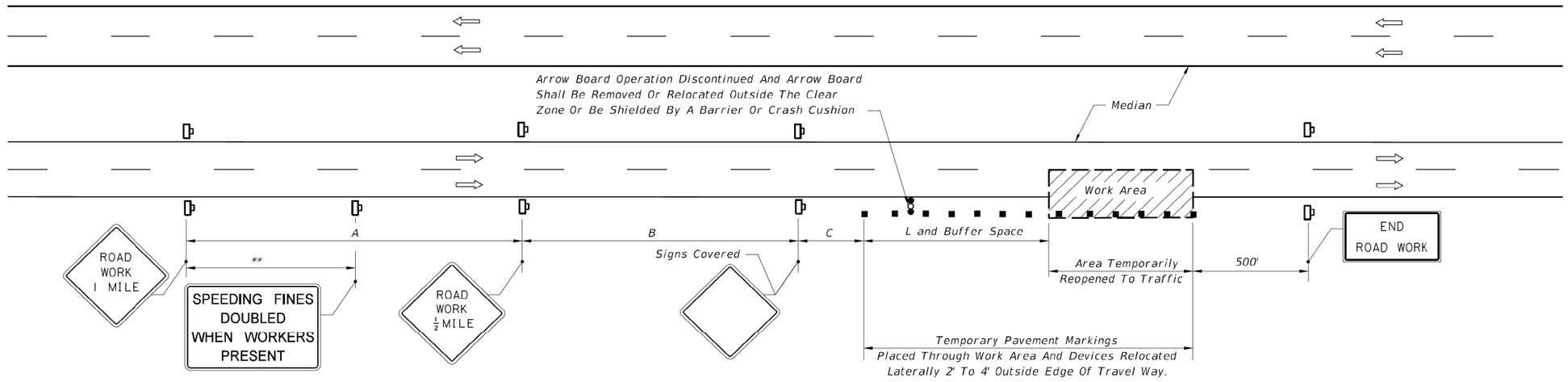
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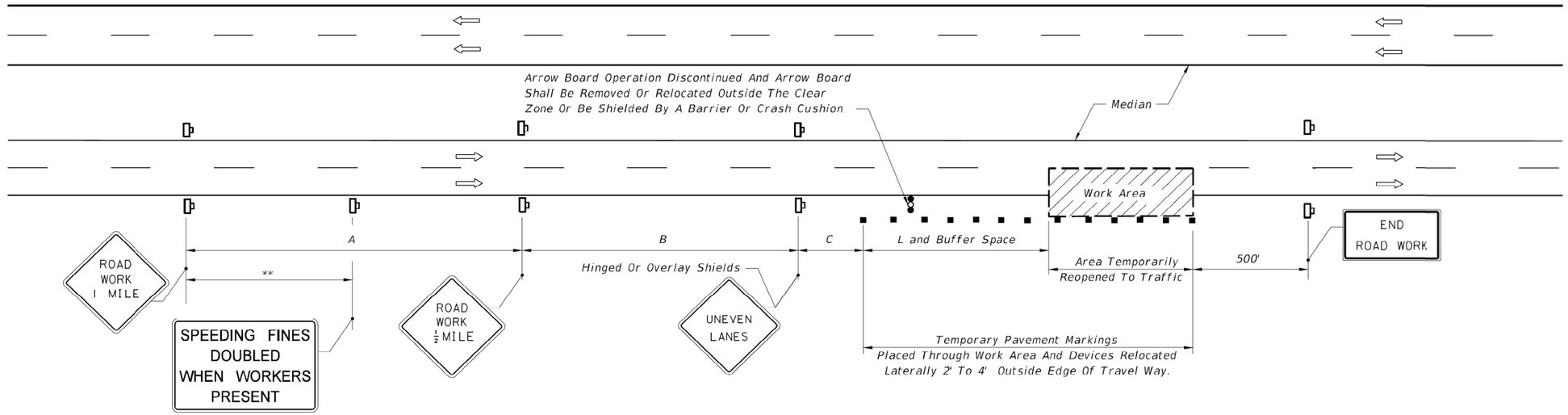
CITY OF STUART
US HIGHWAY 1
LANDSCAPE PLANS

MAINTENANCE OF TRAFFIC

SHEET NO. LD-18



EVEN PAVEMENT



UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

10/23/2017 10:22:32 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT			INDEX	SHEET
11/01/17			FY 2018-19 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE		102-613	2 of 2

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CITY OF STUART

US HIGHWAY 1
LANDSCAPE PLANS

MAINTENANCE OF TRAFFIC

SHEET NO.
LD-19