

EXHIBIT I - 2006 MMOA

**BEFORE THE BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA**

RESOLUTION NO. 06-11.12

**A RESOLUTION AUTHORIZING EXECUTION OF A DISTRICT FOUR (4)
MAINTENANCE MEMORANDUM OF AGREEMENT
FOR THE MAINTENANCE OF LANDSCAPING FOR STATE ROAD A1A FROM
STA. 24+00 TO STA. 81+00**

WHEREAS, the Board of County Commissioners, Martin County, Florida, agree that enhanced landscaping associated with State roadways are of benefit to the citizens of Martin County; and

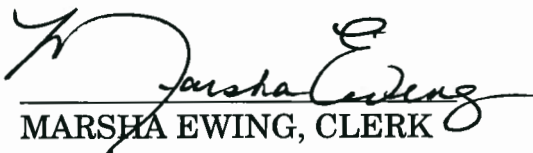
WHEREAS, the Florida Department of Transportation (FDOT) has agreed to furnish and install the landscaping for SR-A1A; and

WHEREAS, it is necessary for the Board of County Commissioners to authorize execution of a District Four (4) Maintenance Memorandum of Agreement, which outlines the County's maintenance responsibilities for SR-A1A.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, Martin County, Florida, that Martin County hereby agrees to enter into the above referenced District Four (4) Maintenance Memorandum of Agreement with the Florida Department of Transportation, and authorizes the execution thereof.

DULY PASSED AND ADOPTED ON THIS 21st DAY OF NOVEMBER, 2006

ATTEST:


MARSHA EWING, CLERK

BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA


MICHAEL Di TEULIZIO, CHAIRMAN

APPROVED AS TO FORM AND
CORRECTNESS:


STEPHEN FRY, COUNTY ATTORNEY

SECTION NO.: 89040
FM NO.(s): 228819-1-52-01
COUNTY: Martin
S.R. NO.: A1A

**DISTRICT FOUR (4)
MAINTENANCE MEMORANDUM OF AGREEMENT**

THIS AGREEMENT, made and entered into this 28th day of December 2006, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the **DEPARTMENT** and the Martin County, a political subdivision of the State of Florida, existing under the Laws of Florida, hereinafter called the **AGENCY**.

WITNESSETH:

WHEREAS, the **DEPARTMENT** has jurisdiction over **State Road A1A** as part of the State Highway System; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the **DEPARTMENT**, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facility as described in Exhibit A attached hereto and incorporated by reference herein, within the corporate limits (or unincorporated if County) of the **AGENCY**; and

WHEREAS, the **AGENCY** is of the opinion that said highway facilities that contain landscape medians and areas outside the travel way to the right of way line, excluding standard concrete sidewalk, shall be maintained by periodic trimming, cutting, weeding, mowing, fertilizing, litter pick-up, necessary replanting, irrigation repairs, and median concrete replacements as needed; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the **AGENCY** by Resolution No. 06-11-12 dated 11-21, 2006, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. The **DEPARTMENT** hereby agrees to install or cause to be installed landscape, irrigation and/or hardscape on the highway facilities substantially as specified in the initial plans and specifications hereinafter referred to as the Project and incorporated herein as Exhibit B. If there are any major changes to the plans, the Department shall provide the modified plans and the **AGENCY** shall provide their approval or disapproval within 10 business days. The

Department may elect to withdraw the landscape if changes are not approved within the given time frame. Hardscape shall mean any non-standard roadway, sidewalk or median surface such as, but not limited to interlocking concrete or brick pavers, stamped asphalt and stamped concrete.

2. The **AGENCY** agrees to maintain the landscape and irrigation within the medians and areas outside the travel way to the right of way line by periodic trimming, cutting, mowing, fertilizing, curb and sidewalk edging, litter pickup and necessary replanting, following the **DEPARTMENT'S** landscape safety and plant care guidelines and as provided by Exhibit D. The **AGENCY'S** responsibility for maintenance shall include all landscaped/turfed areas and areas covered with interlocking pavers or similar type surfacing (hardscape) within the median and areas within the travel way to the right of way line, including paver sidewalks, paver intersections and all paver header curbs, stamped asphalt and concrete areas. It shall be the responsibility of the **AGENCY** to restore an unacceptable ride condition of the roadway caused by the differential characteristics of the paver brick and/or the header curb on Department of Transportation right-of-way within the limits of the Project.

Such maintenance to be provided by the **AGENCY** is specifically set out as follows:

To maintain, which means the proper watering and fertilization of all plants and keeping them as free as practicable from disease and harmful insects; to properly mulch the plant beds; to keep the premises free of weeds; to mow and/or cut the grass to a proper length; to properly prune all plants which includes: (1) removing dead or diseased parts of plants, or (2) pruning such parts thereof which present a visual hazard for those using the roadway. To maintain also means removing or replacing dead or diseased plants in their entirety, or removing or replacing those that fall below original Project standards. All plants removed for whatever reason shall be replaced by plants of the same size and grade as specified in the original plans and specifications. To maintain also means to keep the hardscape areas free from weeds and replacement of any areas becoming in disrepair so as to cause a safety hazard. To maintain also means to keep litter removed from the median and areas outside the travel way to the right of way line. Plants shall be those items which would be scientifically classified as plants and include but are not limited to trees, grass, or shrubs.

If it becomes necessary to provide utilities to the median or side areas (water/electricity) for these improvements, all costs associated with irrigation maintenance, impact fees and connections as well as on-going cost of water are the maintaining **AGENCY'S** responsibility.

The above named functions to be performed by the **AGENCY**, may be subject to periodic inspections by the **DEPARTMENT** at the discretion of the **DEPARTMENT**. Such inspection findings will be shared with the **AGENCY** and shall be the basis of all decisions regarding, repayment, reworking or Agreement termination. The **AGENCY** shall not change or deviate from said plans without written approval of the **DEPARTMENT**.

3. If at any time after the **AGENCY** has assumed the landscape installation and/or maintenance

responsibility above-mentioned, it shall come to the attention of the **DEPARTMENT'S** District Secretary that the limits or a part thereof is not properly maintained pursuant to the terms of this Agreement, said District Secretary may at his option issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the **AGENCY**, to place said **AGENCY** on notice thereof. Thereafter the **AGENCY** shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the **DEPARTMENT** may at its option, proceed as follows:

- (a) Maintain the landscape or a part thereof, with **DEPARTMENT** or contractor's personnel and invoice the **AGENCY** for expenses incurred, or
 - (b) Terminate the Agreement in accordance with Paragraph 7 of this Agreement and remove, by **DEPARTMENT** or contractor's personnel, all of the landscape/hardscape installed under this Agreement or any preceding agreements except as to trees and palms and charge the **AGENCY** the reasonable cost of such removal.
4. It is understood between the parties hereto that the landscape covered by this Agreement may be removed, relocated or adjusted at any time in the future as determined to be necessary by the **DEPARTMENT** in order that the adjacent state road be widened, altered or otherwise changed to meet with future criteria or planning of the **DEPARTMENT**. The **AGENCY** shall be given sixty (60) calendar days notice to remove said landscape after which time the **DEPARTMENT** may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining **AGENCY'S** responsibility.
5. The **DEPARTMENT** agrees to enter into a contract for the installation of landscape Project for an amount not to exceed \$515,216.00 as defined in Exhibit C.

The **DEPARTMENT'S** participation in the Project cost, as described in Exhibit C is limited to only those items which are directly related to this Project. The **AGENCY** shall be invited to assist the **DEPARTMENT** in final inspection at the end of the contractor's 365 day warranty and establishment period.

6. The **AGENCY** agrees to reimburse the **DEPARTMENT** all monies expended for the Project, should the landscape/hardscape areas fail to be maintained in accordance with the terms and conditions of this Agreement.
7. This Agreement may be terminated under any one (1) of the following conditions:
- (a) By the **DEPARTMENT**, if the **AGENCY** fails to perform its duties under Paragraph 3, following ten (10) days written notice.
 - (b) By the **DEPARTMENT**, for refusal by the **AGENCY** to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119,

Florida Statutes, and made or received by the **AGENCY** in conjunction with this Agreement.

8. The term of this Agreement commences upon execution.
9. To the extent permitted by law, the **AGENCY** shall indemnify and hold harmless the **DEPARTMENT**, its officers and employees from all suits, actions, claims and liability arising out of the **AGENCY'S** negligent performance of the work under this agreement, or due to the failure of the **AGENCY** to maintain the Project in conformance with the standards described in Section 2 of this Agreement.
10. The **AGENCY** may construct additional landscape/hardscape within the limits of the rights-of-ways identified as a result of this document, subject to the following conditions:
 - (a) Plans for any new landscape/hardscape shall be subject to approval by the **DEPARTMENT**. The **AGENCY** shall not change or deviate from said plans without written approval by the **DEPARTMENT**.
 - (b) All landscape shall be developed and implemented in accordance with appropriate state safety and road design standards;
 - (c) The **AGENCY** agrees to comply with the requirements of this Agreement with regard to any additional landscape installed;
 - (d) No change will be made in the payment terms established under item number five (5) of this Agreement due to any increase in cost to the **DEPARTMENT** resulting from the installation of landscape added under this paragraph.
11. This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby.
12. The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than 1 year.

13. The **DEPARTMENT'S** District Secretary shall decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions and disputes shall be final and conclusive upon the parties hereto.
14. This Agreement may not be assigned or transferred by the **AGENCY** in whole or part without the consent of the **DEPARTMENT**.
15. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail.
16. Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the Department:
State of Florida Department of Transportation
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attention: Elisabeth A. Hassett, R.L.A.
FDOT District IV Landscape Architect

If to the Agency:
Martin County Engineering Department
2401 SE Monterey Road
Stuart, Florida 34996
Attention: Don Donaldson, P.E.
Director

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

**Martin County Board
of County Commissioners**


Michael DiTerlizzi, Chairman

Attest:

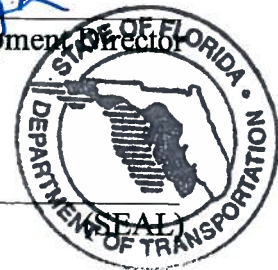

Marsha Ewing, Clerk

**State of Florida
Department of Transportation**


Transportation Development Director

Attest:


Executive Secretary



Approval as to form and correctness:


Stephen Fry, County Attorney

11-21-06 (Date)

Approval as to form and correctness:



12/27/2006 (Date)

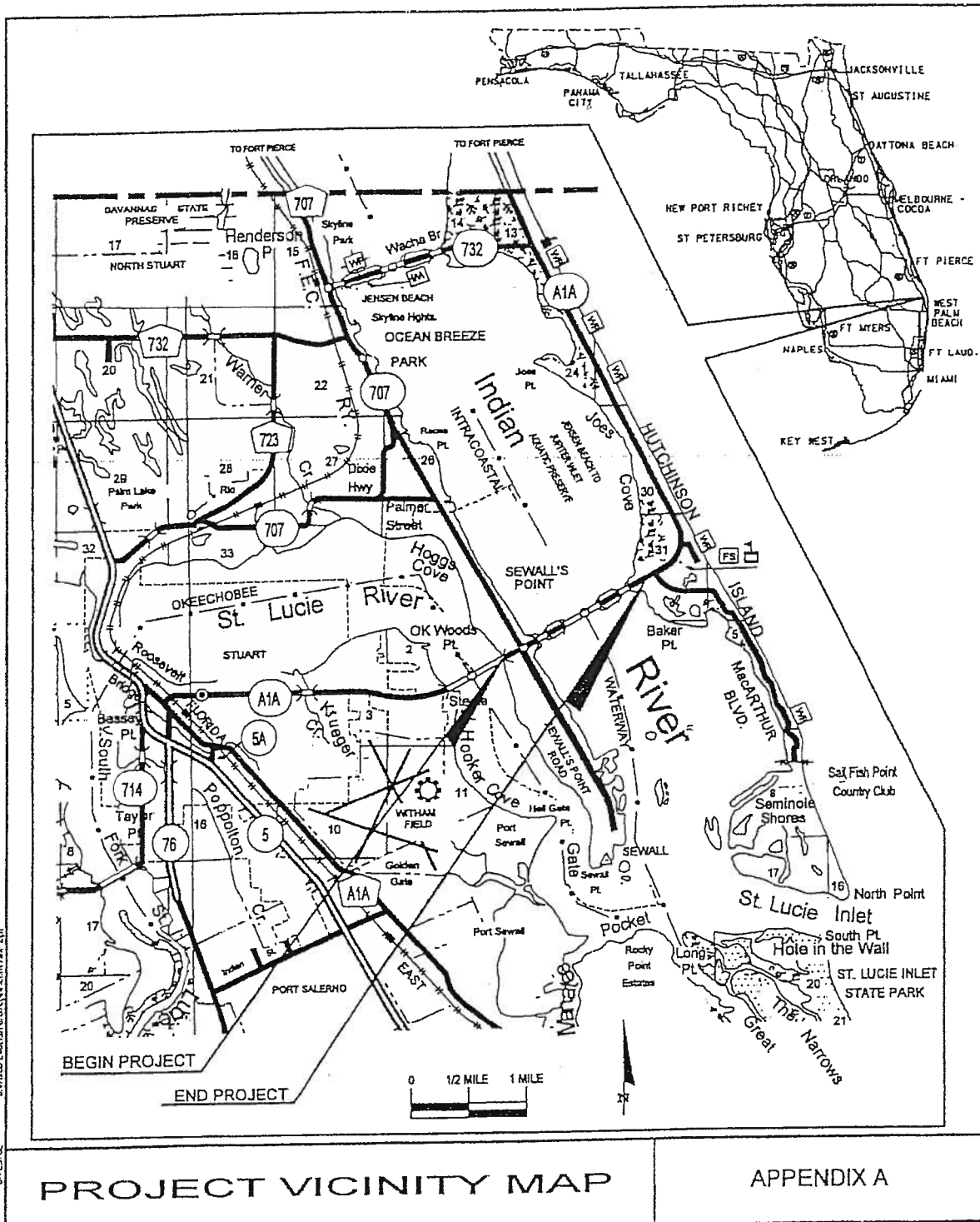
SECTION NO.:	89040
FM NO.(s):	228819-1-52-01
COUNTY:	Martin
S.R. NO.:	A1A

EXHIBIT A

I. PROJECT LOCATION:

State Road A1A from STA.24+00 to STA.81+00 as detailed on the attached plan sheets.

II. PROJECT LOCATION MAP: (SEE ATTACHED MAP)



SECTION NO.:	89040
FM NO.(s):	228819-1-52-01
COUNTY:	Martin
S.R. NO.:	A1A

EXHIBIT B

The **DEPARTMENT** agrees to install the Project with a contractor in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by:	Houston Cuozzo Group, Inc.
Dated:	June 29, 2006

Applicable Specifications:	FDOT Standard Specifications for Road and Bridge Construction, 2004
	FDOT Roadway Design Standards, 2002

SECTION NO.:	89040
FM NO.(s):	228819-1-52-01
COUNTY:	Martin
S.R. NO.:	A1A

EXHIBIT C

PROJECT COST

This Exhibit forms an integral part of the DISTRICT FOUR (4) HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

Dated July 21, 2006

APPROXIMATE PROJECT COST: \$ 515,216.00

Ernest Lyons Bridge Project

Martin County Landscaping Costs

Item/Description	Qty.	UOM	Unit Price	Extended Cost
Canopy / Ornamental Trees	220	EA	\$410.00	\$90,200.00
Palm Trees	320	EA	\$330.00	\$105,600.00
Large Shrubs / Accents	8364	EA	\$12.00	\$100,368.00
Medium Shrubs / Groundcovers	2831	EA	\$8.00	\$22,648.00
Sod	80000	SF	\$0.33	\$26,400.00
Subtotal				\$345,216.00

Martin County Irrigation Costs

Item/Description	Qty.	UOM	Unit Price	Extended Cost
Irrigation	1	LS	\$170,000.00	\$170,000.00

Total Landscaping & Irrigation Cost	\$515,216.00
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SECTION NO.:	89040
FM NO.(s):	228819-1-52-01
COUNTY:	Martin
S.R. NO.:	A1A

EXHIBIT D

MAINTENANCE PLAN

This Exhibit forms an integral part of the DISTRICT FOUR (4) HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

Dated July 21, 2006

S.R. A1A, Ernest Lyons Bridge
Landscape and Irrigation Plans
Financial Project ID: 228819-1-52-01

MAINTENANCE PLAN

The purpose for the following performance based descriptions of landscape maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner. Plantings shall be maintained to provide required visibility and conform to all of the required setbacks as set forth by Florida Department of Transportation's governing standards and specifications; FDOT Roadway Design Standards dated 2006 and Standard Specifications for Road and Bridge Construction dated 2004, as amended by contract documents.

Watering Requirements:

Watering is probably the most critical concern regarding the maintenance of healthy plant material. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone but not to saturate the soil and should avoid over-spray onto travel lanes. Furthermore, the County should maintain rain sensors to be installed on the irrigation system, to ensure that they are functioning properly and that the system does shut down when there is sufficient rainfall.

Avoid extremes in watering. Light, frequent watering is ineffective and produces shallow root systems. Excessive watering that keeps the root zones saturated may kill the plant material due to the lack of available air to the root zone. A typical rule of thumb is that turf areas should receive on an average, a minimum of 1" of water per week, with an equal or lesser amount for trees and shrubs, depending on their individual water usage.

Irrigation:

Ensure there is no roadway overspray or irrigation activities during the daytime hours (most notably rush hour traffic periods).

Fertilization/Insecticides/Fungicides:

Due to the poor shallow root soils of the South Florida area, coupled with heavy rainfall during the growing season, available nutrient levels for landscape materials are very low, therefore nutrient amendments are essential. A soil analysis of each planting site should be done to determine the nutrient levels needed for good plant growth.

Palms, shrubs, trees and turf areas should be fertilized in such a manner and frequency to ensure that the plant material remains healthy, without under or over nourishing them. Insecticides and fungicides shall be applied as needed to ensure that plants and grass remain pest and disease free.

Mulching:

Planting beds should be mulched in such a manner as to: prevent weed growth, retain moisture for use by plants, protect soil from erosion and the loss of nutrients, maintain a more uniform soil temperature and maintain a manicured appearance. Mulch should always be kept away from the trunks of trees, shrubs and palms to prevent rotting and susceptibility to disease. No Cypress mulch should be utilized.

Pruning:

All pruning shall adhere to ANSI A300 standards (and safety criteria adhered to) and shall be overseen by an ISA Certified Arborist. The older fronds on the Palms shall be routinely pruned to insure that fronds do not fall onto any travel lanes. All pruning shall be done with the health and natural growth of the plant materials in mind.

Specific pruning heights of the landscape material shall be determined in order to maintain Clear Site Windows and Vertical Clearances for pedestrian and truck traffic where applicable. Keep visibility windows free of obstructions.

The desired growth habit in landscape planting beds shall be such that shrubs of the same species shall develop into a single mass and be kept separate from adjacent masses of other species.

Staking and Guying:

All staking material (except for replacements) will be removed at the completion of the one year warranty period before the County takes over.

Turf Mowing:

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a neat and clean appearance.

Litter Control:

The project site shall remain litter free during the entire maintenance period.

Weeding/Herbicide:

All planting areas shall be maintained to be as weed free as possible with mechanical and/or chemical weeding, and where specified on plans, with mulch properly applied and maintained. When utilizing herbicide, extreme care should be taken to avoid any overspray onto plant materials.

COMPONENTS OF CONTRACT PLANS SET:
LANDSCAPE PLANS
LANDSCAPE DETAILS AND SPECIFICATIONS
IRRIGATION PLANS
IRRIGATION DETAILS AND SPECIFICATIONS

INDEX OF LANDSCAPE PLANS

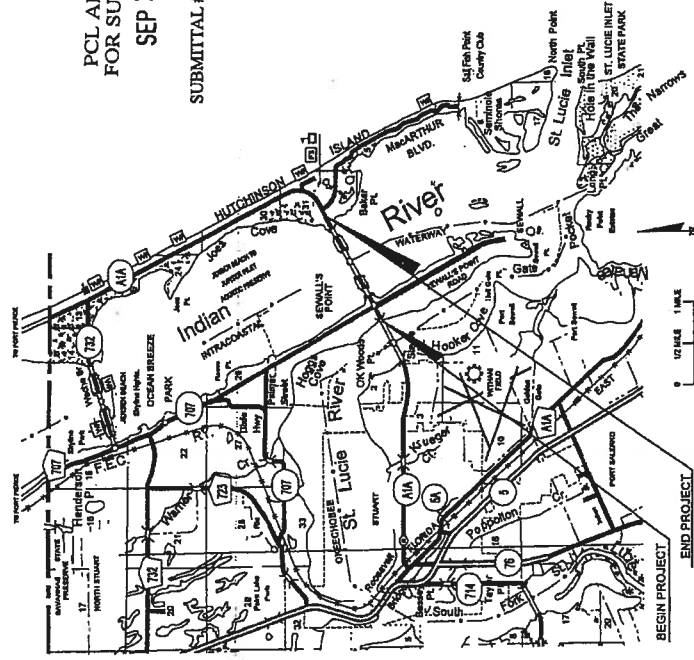
SHEET No.	SHEET DESCRIPTION
1	COVER SHEET
2	FINAL LANDSCAPE PLAN
3	FINAL LANDSCAPE PLAN
4	FINAL LANDSCAPE PLAN
5	FINAL LANDSCAPE PLAN
6	FINAL LANDSCAPE PLAN
7	FINAL LANDSCAPE PLAN
8	FINAL LANDSCAPE PLAN
9	FINAL LANDSCAPE PLAN
10	FINAL LANDSCAPE PLAN
11	FINAL LANDSCAPE PLAN
12	LANDSCAPE DETAILS PLAN
13	FINAL IRRIGATION PLAN
14	FINAL IRRIGATION PLAN
15	FINAL IRRIGATION PLAN
16	FINAL IRRIGATION PLAN
17	FINAL IRRIGATION PLAN
18	FINAL IRRIGATION PLAN
19	FINAL IRRIGATION PLAN
20	FINAL IRRIGATION PLAN
21	FINAL IRRIGATION PLAN
22	IRRIGATION DETAILS PLAN
23	IRRIGATION DETAILS PLAN
24	IRRIGATION DETAILS PLAN
25	IRRIGATION DETAILS PLAN
26	IRRIGATION DETAILS PLAN
27	IRRIGATION DETAILS PLAN
28	IRRIGATION DETAILS PLAN
29	IRRIGATION DETAILS PLAN

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2002,
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2000,
AS AMENDED BY CONTRACT DOCUMENTS.

DESIGN SPEED FOR SR. A1A IS 45 MPH. DESIGN SPEEDS FOR SPOILS ISLAND ACCESS ROADS ARE 15MPH.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-06

CONTRACT PLANS
FINANCIAL PROJECT ID: 228819-1-52-01
(FEDERAL FUNDS)
MARTIN COUNTY
STATE ROAD A1A

LANDSCAPE SHOP DRAWINGS TO
BE SUBMITTED TO:

MICHAEL HOUSTON
HOUSTON CUOZO GROUP
2400 SE FEDERAL HIGHWAY, SUITE
310
STUART FL 34994
(772) 221-2128
FAX (772) 221-0788

PLANS PREPARED BY:
HOUSTON CUOZZO GROUP
2400 SE FEDERAL HIGHWAY, SUITE 310
STUART FL. 34994
(772) 221-2128
FAX (772) 221-0788

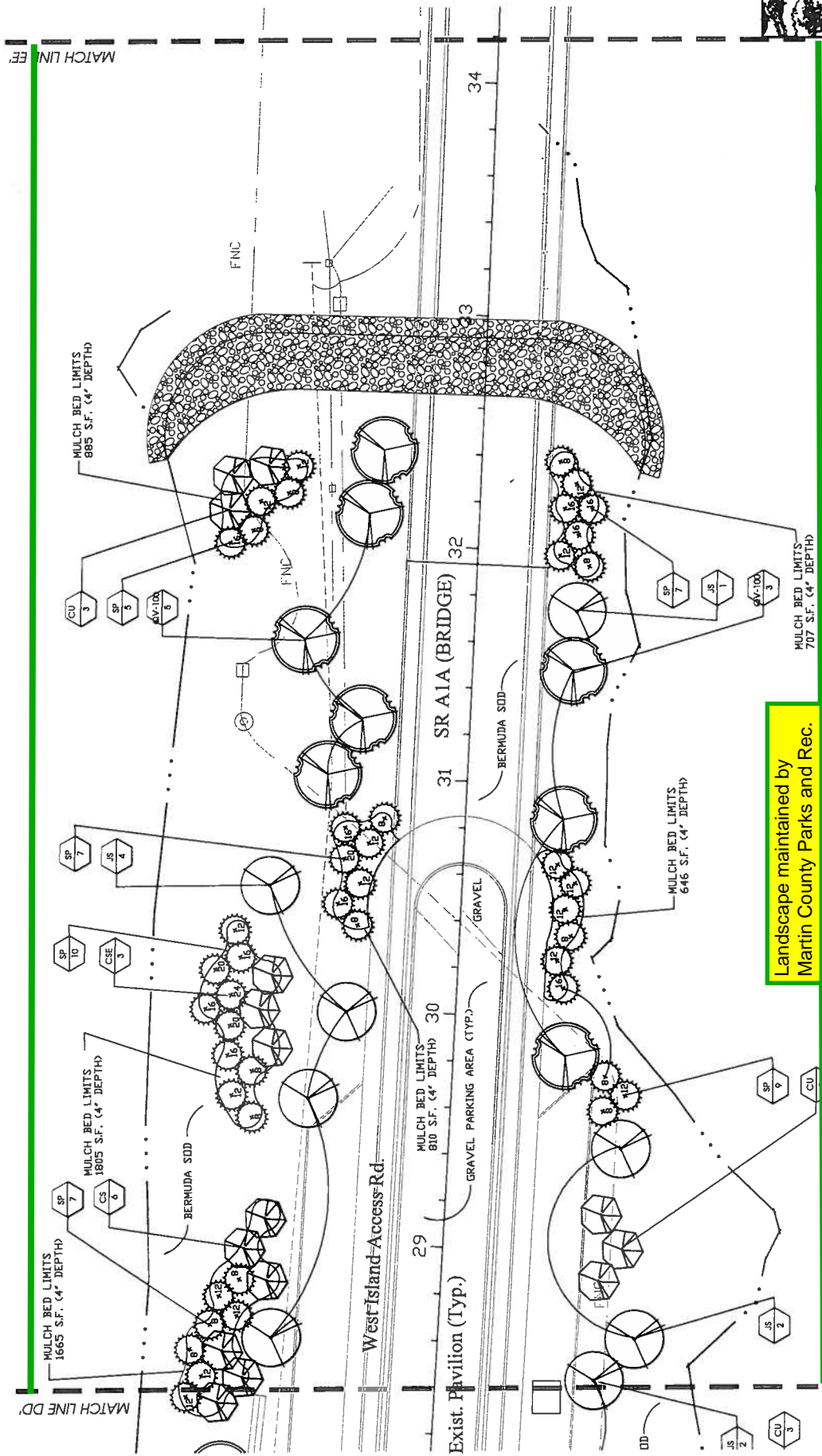
NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

LANDSCAPE ARCHITECT OF RECORD:
MICHAEL HOUSTON
RLA No: 905

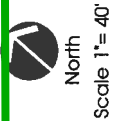
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LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1941.48	.368
BRIDGES	4661.00	.883
NET LENGTH OF PROJECT	6602.48	1.251
EXCEPTIONS	N/A	N/A
NET LENGTH OF PROJECT	6602.48	1.251

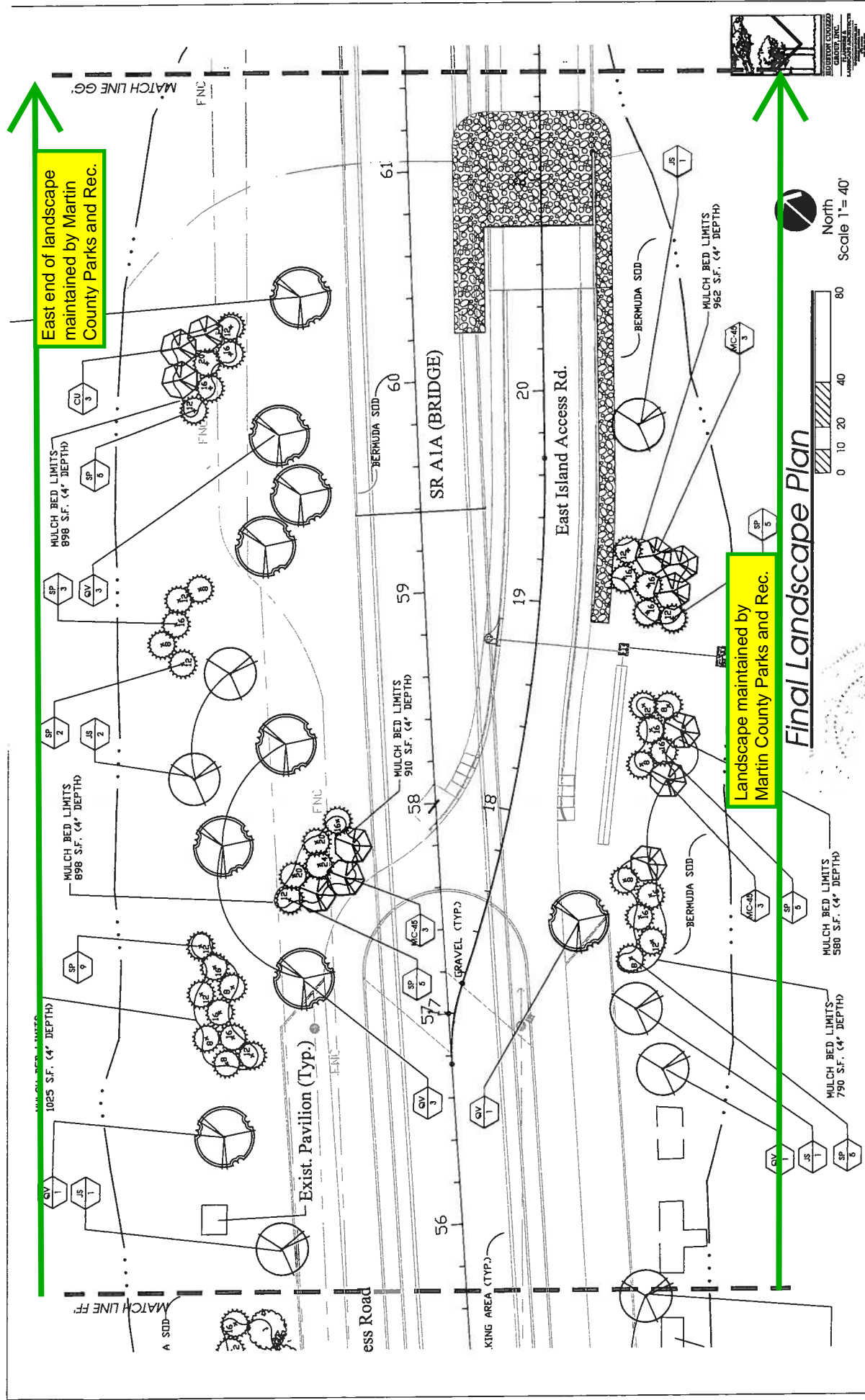
FISCAL YEAR	06
SHEET No.	1



Final Landscape Plan



									SHEET NO.	5 OF 29
									FINAL LANDSCAPE PLAN	
									STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
									ROAD NO. AIA	COUNTY MARTIN
									FINANCIAL PROJECT ID 228819-1-52-01	
									L&L ARCHITECT HORTON TALLAHASSEE HOUTSON COZZO GROUP 795 COLORADO AVENUE, SUITE 1 STUART, FLORIDA 34994	
DATE	BY	DESCRIPTION	REVISIONS							
6-24-08	JM	Paid Firm Review								
9-14-08		Reworked for PDOT Review								
9-24-08		Reworked for PDOT Review								



DATE		BY	DATE	REVISIONS	
04-06		MM		DESCRIPTION	
04-06				Final Plan Review	
04-06				Revised for FOOT Review	
04-06				Revised for FOOT Review	
LDR: MICHAEL HOUTSON ALLA, ACP TRIMMING GROUP 775 COLONIAL AVENUE, SUITE 1 STUART, FLORIDA 34994				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
ROAD NO.		COUNTY	FINANCIAL PROJECT ID	FINAL LANDSCAPE PLAN	
A1A		MARTIN	228819-1-52-01		
SHEET NO.				7 of 29	

West end of maintenance by
Martin County Engineering

Landscape maintained by Martin
County Engineering Department

Final Landscape Plan



North
Scale 1"= 40'

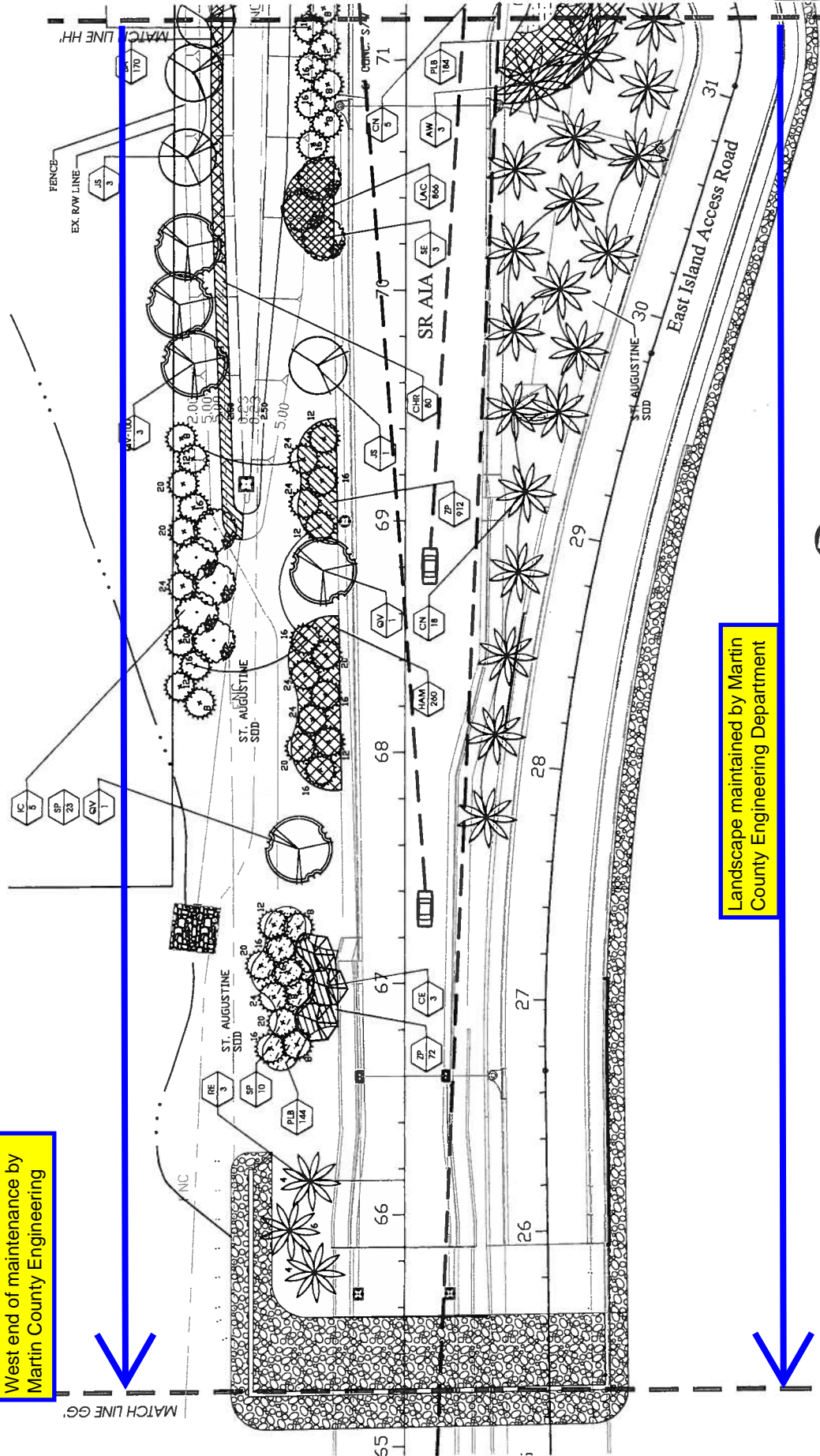
DATE	BY	DESCRIPTION
6-20-06	MM	Final Plan Review
10-06		Revised for PDOT Review
10-06		Revised for PDOT Review

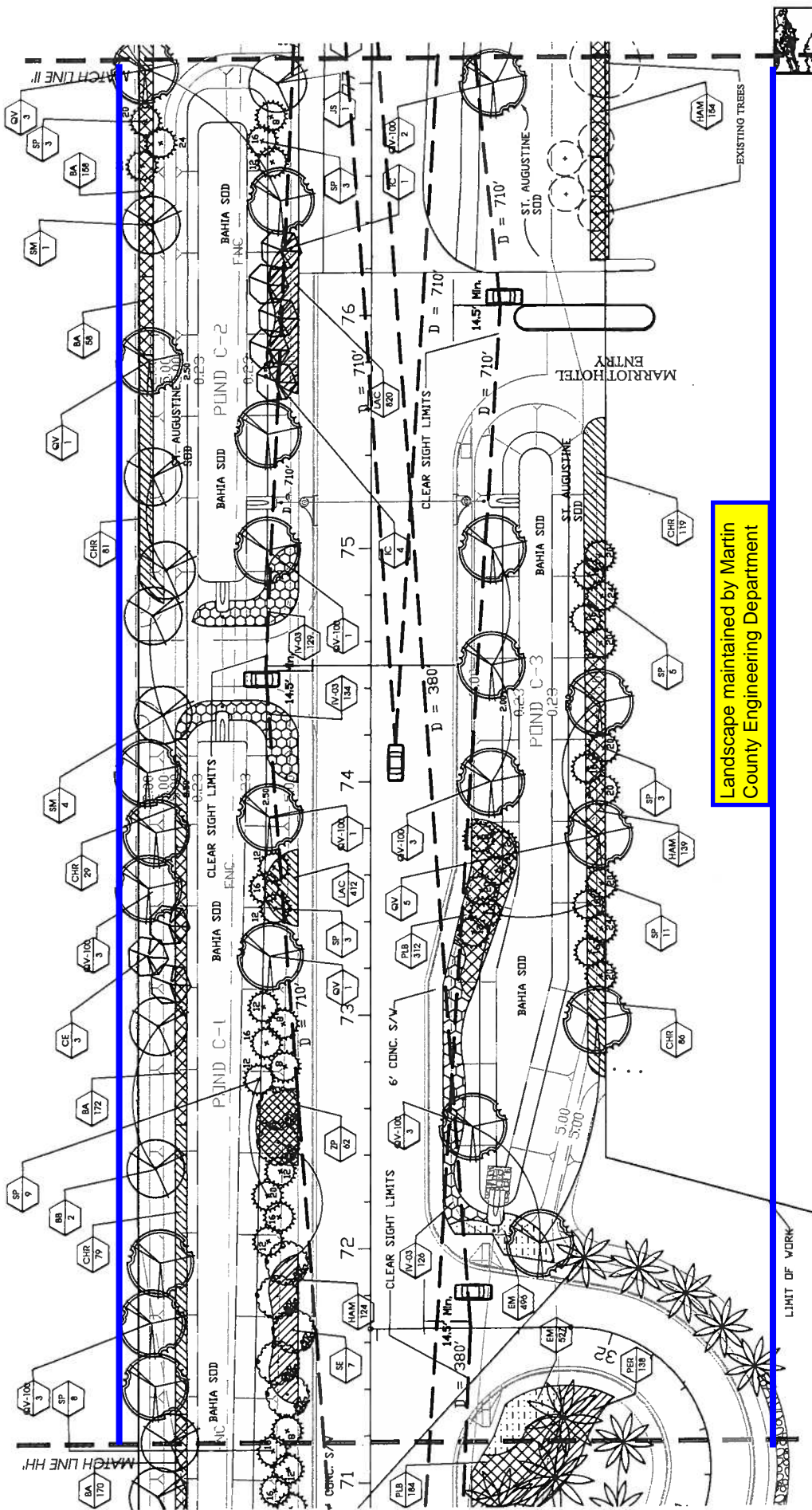
FOR: MICHAEL BOSTON
S.E.A. ARCH
BOSTON CONSULTING GROUP
775 COLORADO AVENUE, SUITE 1
STUART, FLORIDA 34994

ROAD NO.	AIA
COUNTY	MARTIN
FINANCIAL PROJECT ID	228819-1-52-01

FINAL LANDSCAPE PLAN

SHEET
NO.
8 of 29





Landscape maintained by Martin
County Engineering Department

Final Landscape Plan



DATE	BY	REVISIONS
6/26/06	SM	DESCRIPTION: Final Plan Review
6/26/06		Resubmitted for FOOT Review
6/26/06		Resubmitted for FOOT Review

LESLIE MICHAEL ROBERTSON
S.E.A. AND
LANDSCAPE ARCHITECT
735 COLLEASDA AVENUE, SUITE 1
STUART, FLORIDA 34994

9.3.06

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	MARTIN	228819-1-52-01

FINAL LANDSCAPE PLAN

SHEET
NO.
9 of 29

Tree List

QTY	SYM	SPECIES	COMMON NAME	SIZE	SPACING	REMARKS
22	CE	*COCOCARPUS ERECTUS	GREEN BUTTWOOD	10' Z CAL	A.S.	FULL CANOPY
3	CR	*CLUSA ROSEA	PITCH APPLE	45 GAL: 8' x 4' x 4' C.A.S.	A.S.	FULL CANOPY
12	CS	*COCOCARPUS ERECTUS	SILVER BUTTWOOD	10' Z CAL	A.S.	FULL CANOPY
15	CU	*COCOCARPUS ERECTUS	SILVER BUTTWOOD	30 GAL: 10' x 10' x 4' C.A.S.	A.S.	FULL CANOPY
25	IC	*LEX CASINE	DAHOON HOLLY	30 GAL: 10' x 12' x 2' C.A.S.	A.S.	FULL CANOPY
3	IC-25	*LEX CASINE	DAHOON HOLLY	30 GAL: 10' x 12' x 2' C.A.S.	A.S.	FULL CANOPY
32	JS	*JATROPHA STANDARDO	JATROPHA STANDARDO	25 GAL: 6' x 5' x 5' A.S.	A.S.	FULL SPECIMEN
45	LV	*QUERCUS VIRGINIANA	LIVE OAK	45 GAL: 11' x 25' C.A.S.	A.S.	FULL CANOPY, 5' C
30	LV-100	*QUERCUS VIRGINIANA	LIVE OAK	100 GAL: 15' x 25' x 4' A.S.	A.S.	FULL CANOPY, 5' C
14	MC-15	*MYRTA GEFIFERA	WAX MYRTLE	15 GAL: 10' x 8' x 8' A.S.	A.S.	FULL CANOPY, 5' C
25	BE	*SINIA POLYPHYLLA	DESERT CASSIA	6' x 10' x 25' CAL: 4' C.A.S.	A.S.	FULL

3	AW	*ACOLEOR WRIGHTII	PAUROTIS PALM	12' x 7' GANES	A.S.	SPECIMEN, FULL I
23	AW-100	*ACOLEOR WRIGHTII	PAUROTIS PALM	100 GAL: 8' x 8' x 8' A.S.	A.S.	SPECIMEN, FULL I
23	RE	*ROSTOMEA ELATA	FLORIDA ROYAL PALM	2' x 4' GRET WOOD A.S.	A.S.	STAGGER HEIGHT
319	SP	*SABAL PALMETTO	SABAL PALM	8' x 16' C.T.	A.S.	BOOTED
7	SP-16	*SABAL PALMETTO	SABAL PALM	16 C.T.	A.S.	BOOTED

Shrub List

QTY	SYM	SPECIES	COMMON NAME	SIZE	SPACING	REMARKS
1973	BA	*BORCHIA ARGENTENS	SILVER SEAGRASS	18' x 10' x 3' GAL	2' O.C.	FULL & THICK
747	CH	*CHRYSOBALANUS ICAGO	COCKLEBUSH	24' x 24"	3' O.C.	FULL
3142	EM	*EUPHORBIA MILI ROSE (PINK)	DMF CROWN OF THORNS	12' x 12' SPED.	12' O.C.	FULL & THICK
1177	HAM	*HAMELIA PATENS	FREEBUSH	24' x 24"	2' O.C.	FULL & THICK
138	PER	*PERINSETUM SETACEUM 'FLORAM'	RED FOUNTAIN GRASS	24' x 15' SPED.	2' O.C.	FULL & THICK
640	PUB	*PLUMBAGO IMPERIAL BLUE	BLUE PLUMBAGO	24' x 15' SPED.	2' O.C.	FULL & THICK
23	PHM-07	*PODOCARPUS MACROPHYLLUS 'MANT'	MAKI YEW PODOCARPUS	7' GAL: 4' x 2'	3' O.C.	FULL
6	SER	*SERENCA REPENS	SAW PALMETTO	24' x 15' SPED.	3' O.C.	FULL
106	SR-15	*SERENCA REPENS	SAW PALMETTO	15' GAL: 3' x 3' x 3'	4' O.C.	FULL
442	TID	*TIPSAQUAM DACTYLOIDES	FAVONATEE GRASS	24' x 15' SPED.	3' O.C.	FULL
507	AD	*ACROSTICHUM DANAEFOLIUM	LEATHER FERN	3' GAL	3' O.C.	FULL
106	CAS-07	*CRINUM ASITICUM	CRINUM LILY	7' GAL: 3' x 2' x 2'	4' O.C.	FULL
297	CI	*CHRYSOBALANUS ICAGO	RED-TIPPED COCKLEBUSH	3' GAL: 2' x 2' x 2'	3' O.C.	FULL
1111	FL	*FLAYERA LINEARIS	YELLOWTOP	12' x 12' x 1' GAL	3' O.C.	FULL
1495	HL	*HYMENOCALLIS LATIFOLIA	SPIDER LILY	12' x 12' x 1' GAL	3' O.C.	FULL
2443	INB	*INBENCA LILY	DMF YALPON HOLLY	18' x 18' x 18'	3' O.C.	FULL & THICK
2558	JOP	*JANPERUS CHENSIS PHASORIT	PARSONS JUMPER	18' x 18' x 18'	3' O.C.	FULL & THICK
2558	LUC	*LUNARIA ANTHRA GOLD MOUND	GOLD MOUND LANTANA	1' GAL: 12' x 12'	12' O.C.	FULL & THICK
707	LMV	*LORPE MISCOURI VAREGAT	VAREGATED BORDER GRASS	1' GAL: 9' x 9' x 9'	16' O.C.	FULL
263	MIC-30	*MYRTA GEFIFERA	WAX MYRTLE	3' GAL: 3' x 2' x 2'	3' O.C.	FULL
1673	SBK	*SPARTINA BAKERI	SAND CORGRASS	4' x 10' x 10'	3' O.C.	FULL
886	TFL	*TIPSAQUAM FLORIDANA	FLORIDA GAMMA GRASS	3' GAL: 2' x 2' x 2'	24' O.C.	FULL
1046	Y	*YUCCA FLORIDANA	SOCIETY GARLIC	1' GAL: 10' x 10' x 10' P.P.P.	3' O.C.	FULL
29-07	ZF	*ZAMIA FLORIDANA COONITE	ZAMIA FLORIDANA COONITE	18' x 18' x 18'	3' O.C.	FULL & THICK
122	ST	*STENOTAPHRUM SECUNDATUS	BAHA SOO	7' GAL: 3' x 3' x 3'	3' O.C.	FULL & THICK
800	ST	*STENOTAPHRUM SECUNDATUS	ST. AUGUSTINE SOO			
500	ST	*STENOTAPHRUM SECUNDATUS	BERMUDA GRASS			

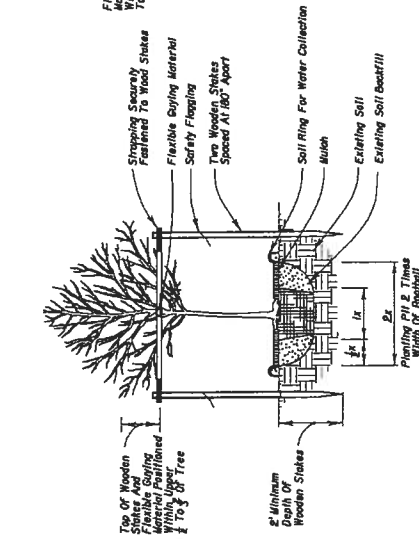
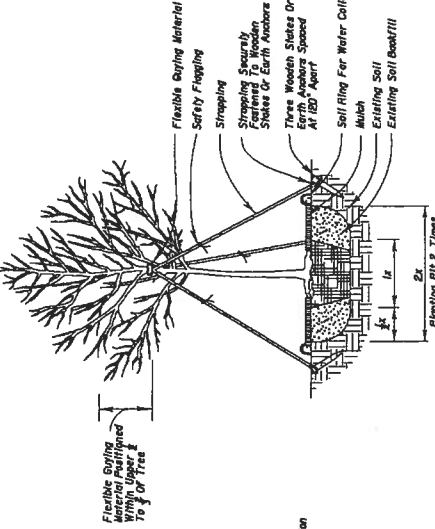
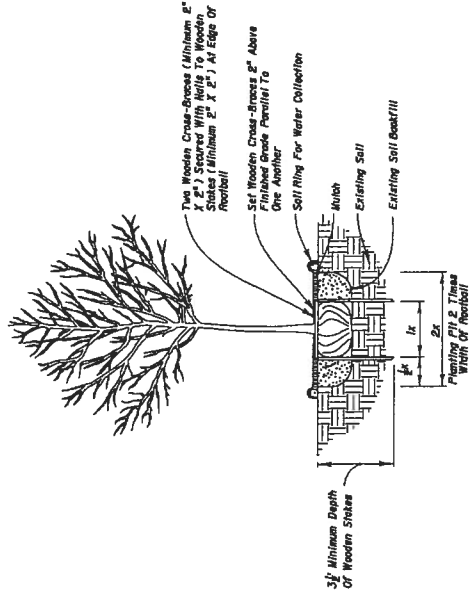
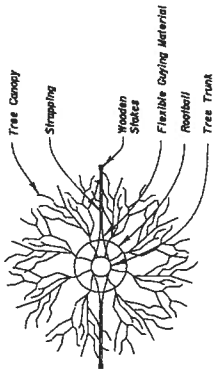
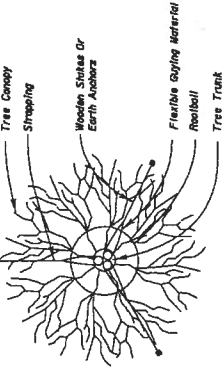
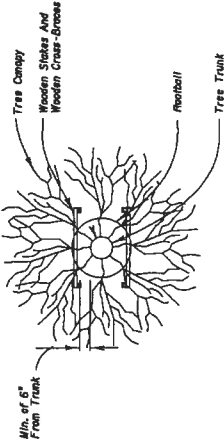
LANDSCAPE NOTES

1. Governing Standards and Specifications: Florida Department of Transportation, Design Standards Dated January 2002, and Standard Specifications for Road and Bridge Construction Dated 2000, as Amended by Contract Documents.

2. Design Speed for SR AIA is 45 mph. Design Speeds for Spills Islands Access Roads are 15 mph.

DATE		BY	MM	YEAR	REVISIONS	DESCRIPTION	DATE	BY	MM	YEAR	REVISIONS	DESCRIPTION
<p>Final Plan Review</p> <p>Revised for FOOT Review</p> <p>Revised for FOOT Review</p>												
<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>ROAD NO. COUNTY FINANCIAL PROJECT ID</p> <p>AIA MARTIN 228819-1-52-01</p>												
<p>FINAL LANDSCAPE PLAN</p>												
<p>SHEET NO. 11 of 29</p>												





Tree Planting With Wooden Stakes

4" and Larger Caliper Tree Planting

1" - 3 1/2" Caliper Tree Planting

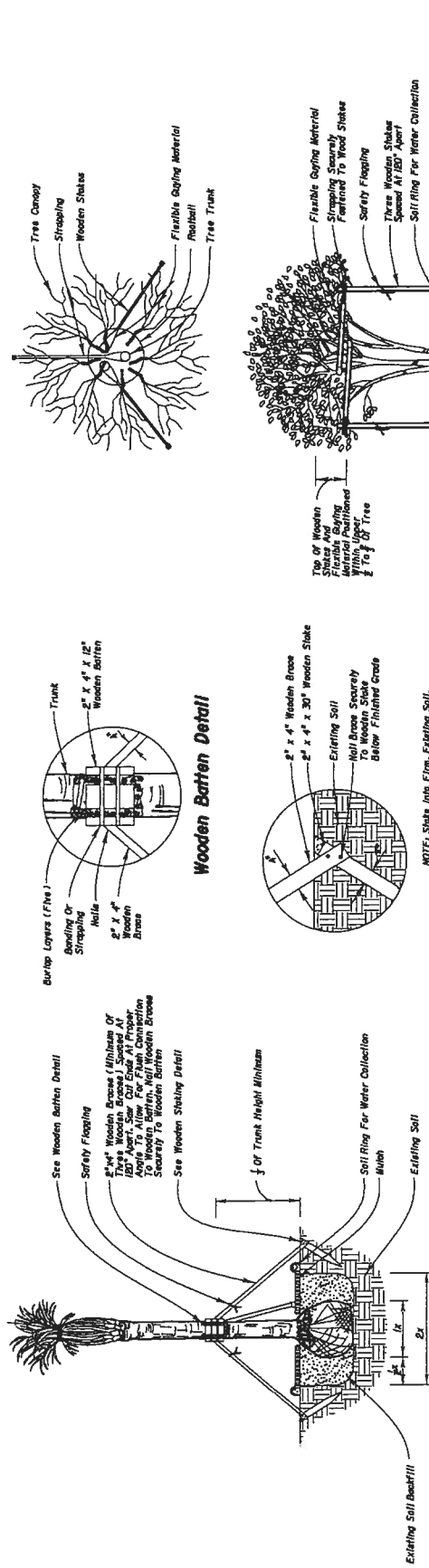
General Notes:

1. All dimensions 6" and less are exaggerated for illustrative purposes only.
2. Plant containers shall be removed prior to planting. If plants are not container grown, remove a minimum of the top 1/3 of burlap, fabric, or wire mesh.
3. Rootballs shall be set 1"-2" above finished grade and set plumb to the horizon.
4. Backfill shall be loosened existing soil. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and keep to remove air pockets. If existing soils contain excessive sand, clay, or other material not conducive to proper plant growth contact Engineer prior to planting.
5. Soil rings shall be constructed of existing soil at the outer edge of the planting pit with a height and width of 6".
6. Mulch shall be a 3" deep layer placed to the edge of the trunk flare, around the base of shrubs, or misty around groundcover.
7. Strapping shall be minimum 1" wide nylon or polypropylene. Gating material in contact with tree shall be soft, pliable, and flexible plastic or rubber, securely fastened to wooden slides. All wooden slides or earth anchors shall be located beyond the edge of soil ring and located below finished grade.
8. Small palms may be hurricane cut. All other palms must have fronds tied with biodegradable strap. Palm frunks shall have no burn marks, scars, or scuffing.
9. All dimensions provided for wooden materials are nominal.
10. When a permanent, subsurface, or drip irrigation system is provided a well ring is not required. Mulch to edge of planting pit.
11. Commercial tree breeding systems approved by the Engineer may be used in lieu of the tree breeding methods detailed on the index.



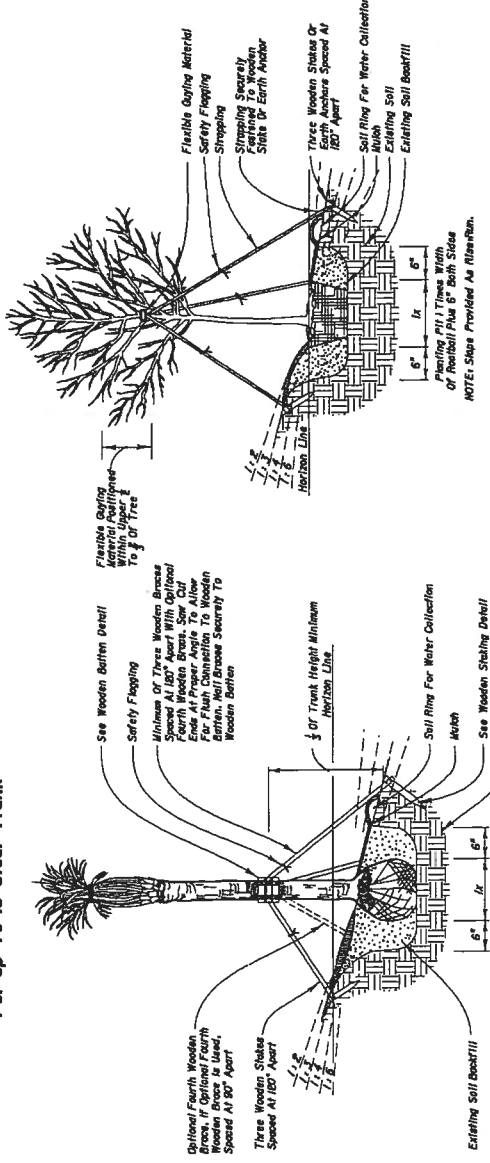
Landscape Details

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE DETAILS		SHEET NO.	
DATE	BY	DESCRIPTION	LOI: INCHARGE POSITION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PLAN	12a of 29	
6-20-06	MM	Final Plan Review	AIA, ACP	AIA	MARTIN	228819-1-52-01			
6-20-06	MM	Reviewed for PDOT Review	TRISTON CUEZZO GROUP						
6-20-06	MM	Reviewed for PDOT Review	730 COLLEGGIO AVENUE, SUITE 1						
			STUART, FLORIDA 34904						



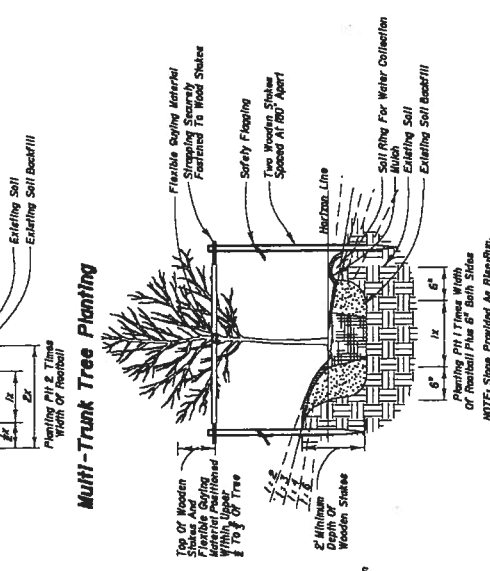
Palm Planting On Slope For Up To 10' Clear Trunk

NOTE: For All Palm Over 10' Clear Trunk, Use Palm Planting On Slope For Up To 10' Clear Trunk. Archival In Contact Plans.



4' and Larger Caliper Tree Planting On Slope

NOTE: Slope Provided As Riserun.



Multi-Trunk Tree Planting

NOTE: Slope Provided As Riserun.

Landscaping Details

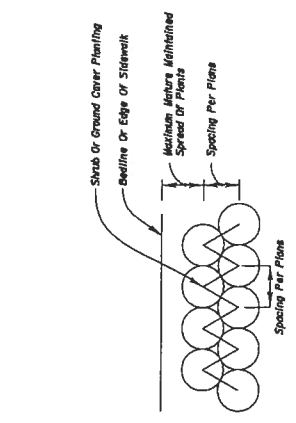
1" - 3 1/2" Caliper Tree Planting On Slope

REVISIONS		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE DETAILS		SHEET NO.	
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
6-20-06	MM	Final Plan Review	A1A	MARTIN	228819-1-52-01		12b of 29
9-20-06	MM	Revised for FOOT Review					
9-20-06	MM	Revised for FOOT Review					

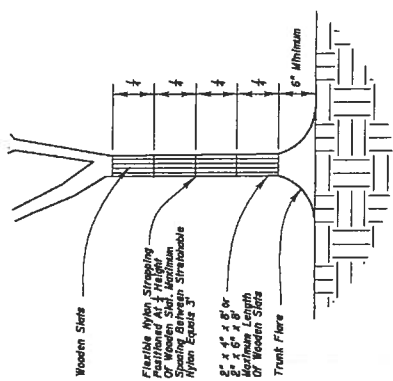
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FLA: JAC
TAMPA: MICHAEL BOSTON
TALLAHASSEE: MICHAEL BOSTON
TALLAHASSEE: MICHAEL BOSTON

LOC: MICHAEL BOSTON
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TALLAHASSEE: MICHAEL BOSTON
TALLAHASSEE: MICHAEL BOSTON

12b of 29

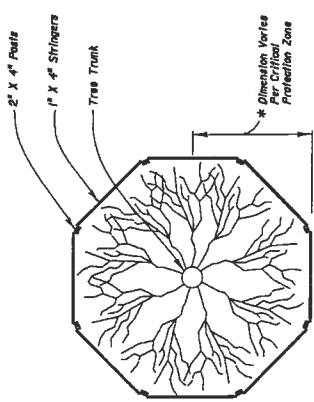


Ground Cover/Shrub Layout Detail

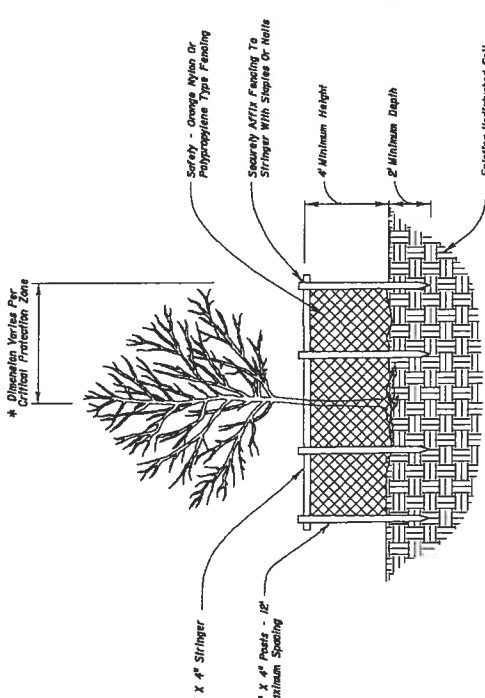


Tree Protection

NOTE: To Be Used When Tree Protection Barriade Is Used For Protection Of Tree Trunk, Project Limits, Or Other Existing Constraints.

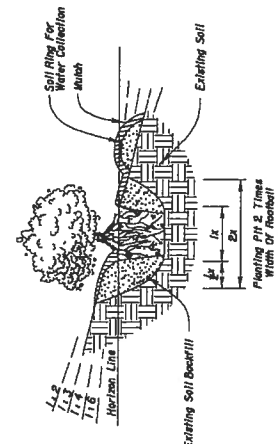


NOTE: For Groups Of Trees, Place Barriades Between Trees And Construction Activity.

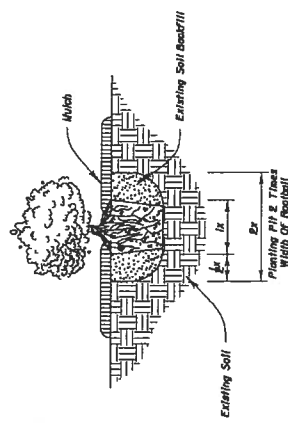


NOTES: Critical Protection Zone: The Area Surrounding A Tree Trunk And Root System. For Each Tree, The Critical Protection Zone Shall Be Established For Each Tree Trunk Diameter At 5' Above Finished Grade. For Groups Of Trees, Place Barriades Between Trees And Construction Activity.

* Tree Protection Barriade Shall Be Located To Protect A Minimum Of 75% Of The Critical Protection Zone.



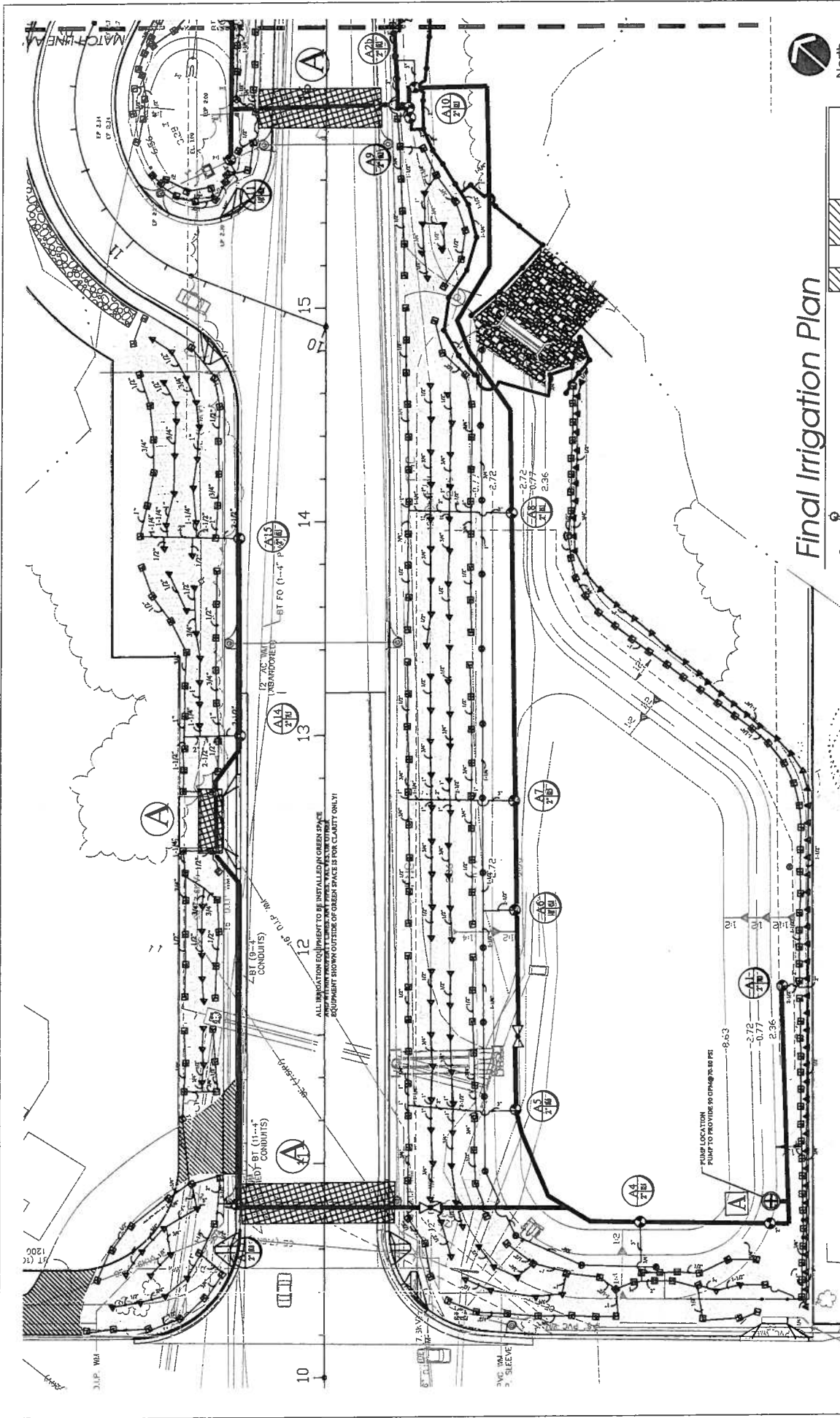
Ground Cover/Shrub Planting On Slope



Ground Cover/Shrub Planting

Landscape Details

DATE	BY	DESCRIPTION	REVISIONS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	LANDSCAPE DETAILS PLAN	SHEET NO.
9-20-06	MM	Final Plan Review	1. AIA, ACP 2. MICHAEL BOSTON 3. HUSTON COOPER GROUP 4. MICHAEL BOSTON 5. HUSTON COOPER GROUP 6. MICHAEL BOSTON	ROAD NO. A1A COUNTY MARTIN FINANCIAL PROJECT ID 228819-1-52-01		12c of 29
9-20-06	MM	Revised for DOT Review				
9-20-06	MM	Revised for DOT Review				



Final Irrigation Plan

North
Scale 1" = 40'

Irrigation
CONCEPTS, Inc.
1000 W. 10th Street, Suite 100, Ft. Lauderdale, Florida 33304

				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
				ROAD NO.		COUNTY	
				A1A		MARTIN	
						228819-1-52-01	
<div>FINAL LANDSCAPE PLAN</div>							
<div>SHEET NO. 13 of 29</div>							

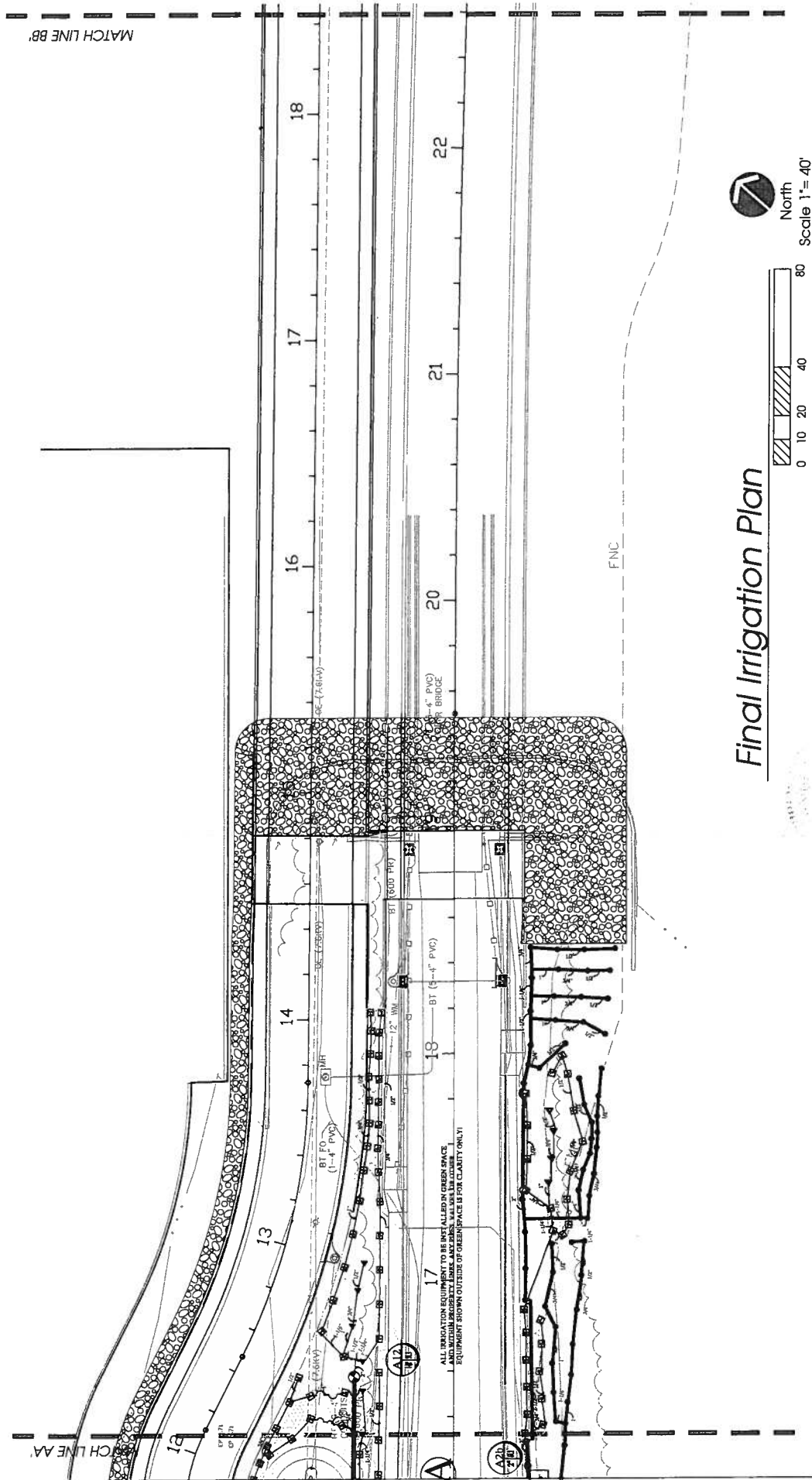
REVISIONS		DATE		BY	DESCRIPTION
		08-04		MM	Final Plan Review
		10-06		MM	Rebuild for FDOT Review
		10-06		MM	Rebuild for FDOT Review

LOU MICHAEL ROBERTSON
P.L.A. INC.
BOOTHWOOD GROUP
10000 BOOTHWOOD BOULEVARD, SUITE 1
STUART, FLORIDA 34996

mc 9.20.06

LOC. MODIFIED: BOSTON
S.A. JEP
BOSTON/CORRADO GROUP
733 COLONADO AVENUE, SUITE 1
STUART, FLORIDA 34994

MC
9.30.06



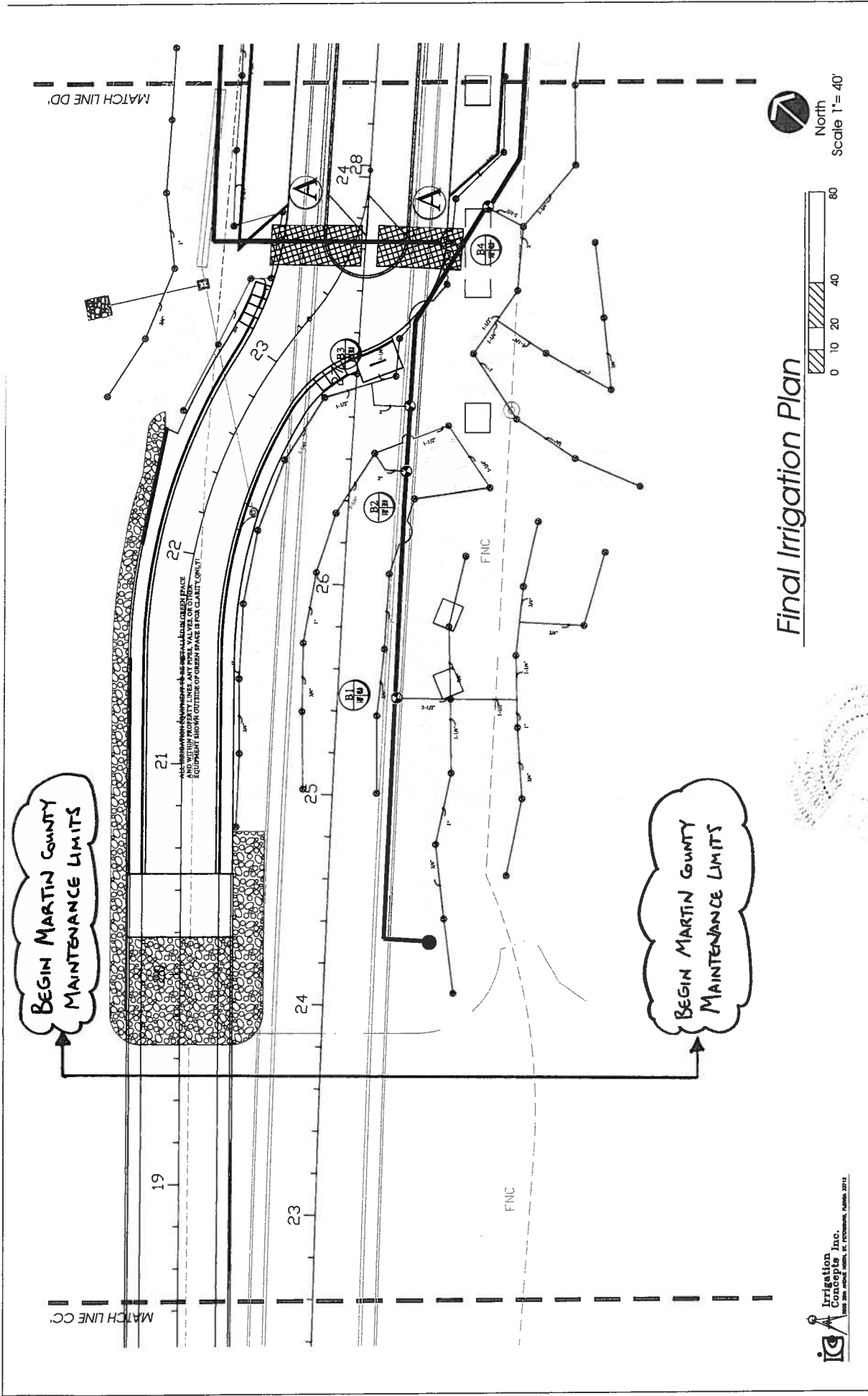
DATE	BY	DESCRIPTION
10-06	ME	Final Plan Review
10-06	ME	Revised for FOOT Review
10-06	ME	Revised for FOOT Review

FOR: MICHAEL BROOKTON
FLA. A/E
BROOKTON CLOSDO GROUP
751 COLORADO AVENUE, SUITE 1
STUART, FLORIDA 34994

MLC
9/20/06

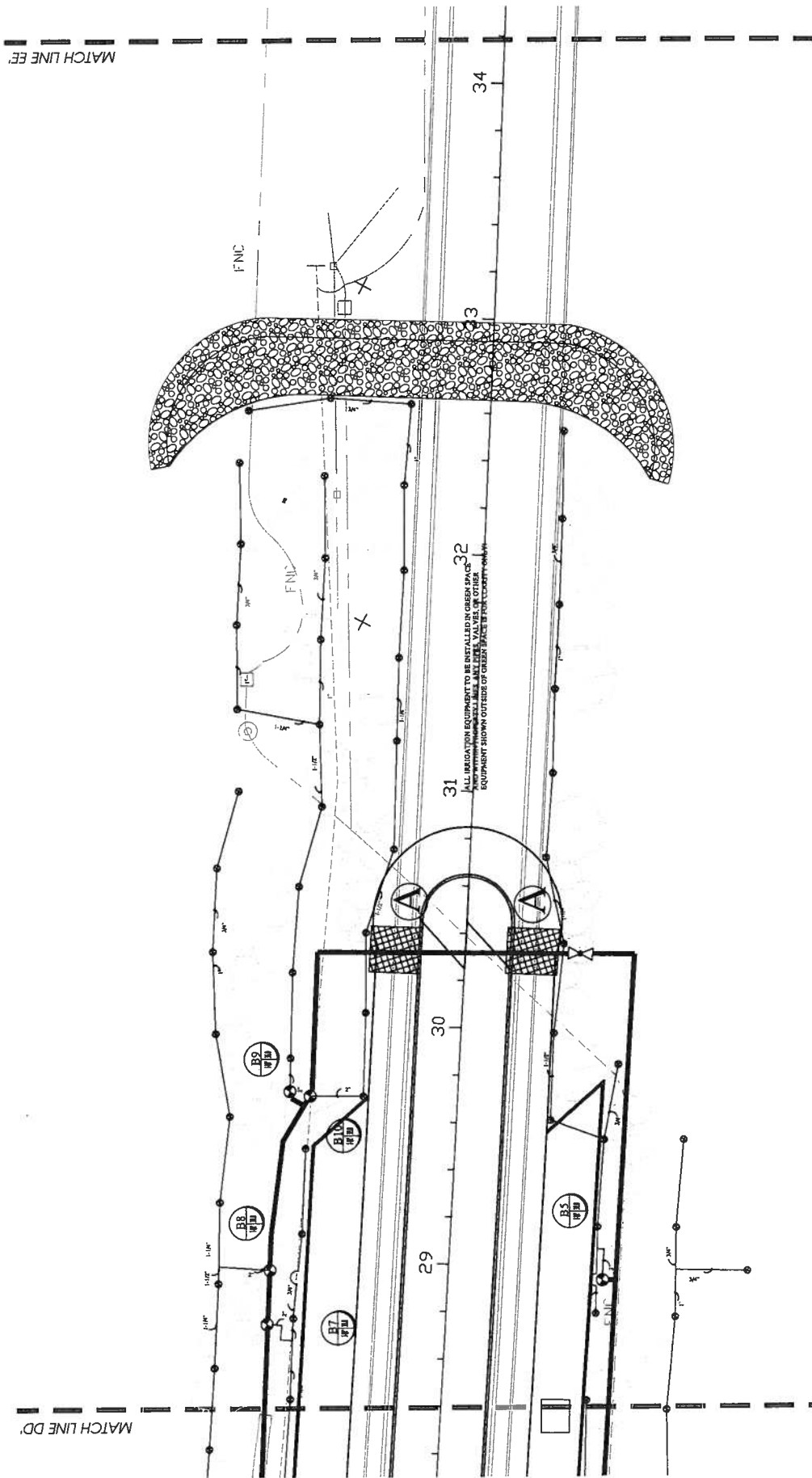
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	MARTIN	228819-1-52-01

FINAL LANDSCAPE PLAN



DATE		BY	DESCRIPTION	REVISIONS
8-29-06	10	10	Final Plan Review	
8-29-06	10	10	Revised for FOOT Review	
8-29-06	10	10	Revised for FOOT Review	

LWS MICHAEL HANSTON S.A., ACP ROBERTSON CONCRETE GROUP 735 COLORADO AVENUE, SUITE 1 STUART, FLORIDA 34994		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY MARTIN FINANCIAL PROJECT ID 228819-1-52-01		FINAL LANDSCAPE PLAN		SHEET NO. 15 of 29
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North
Scale 1" = 40'

Final Irrigation Plan

North
Scale 1" = 40'

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Irrigation
Concepts Inc.

SHEET
NO. 16 of 29

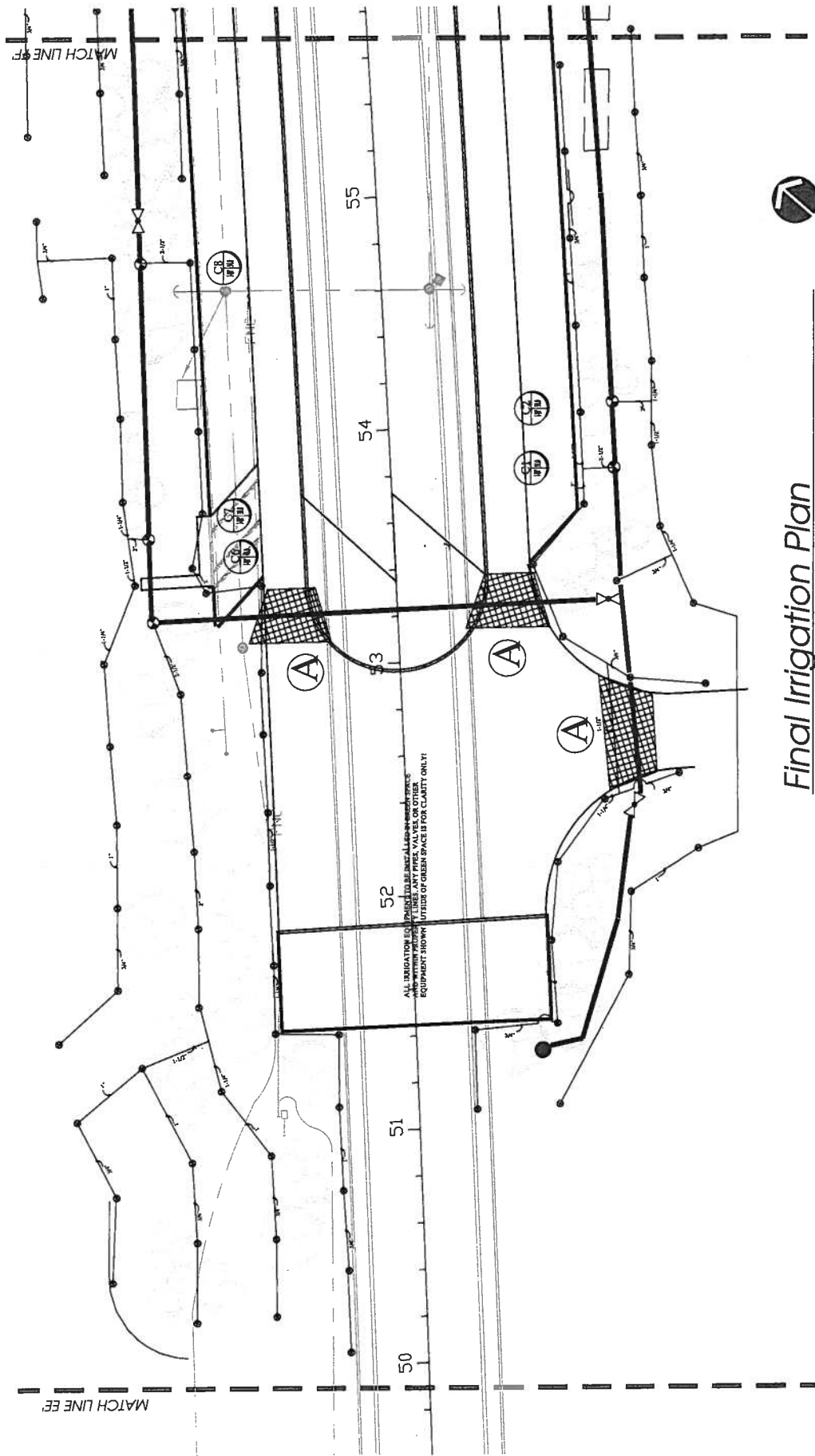
*FINAL LANDSCAPE
PLAN*

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	MARTIN	228819-1-52-01

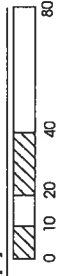
DR. MICHAEL HOUSTON
L.A. AND
HOLSTON CLOZZO GROUP
15 COLORADO AVENUE, SUITE 1
ATLANTA, FLORIDA 34694

REVISIONS	DESCRIPTION
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	Requisite for FDOT Review

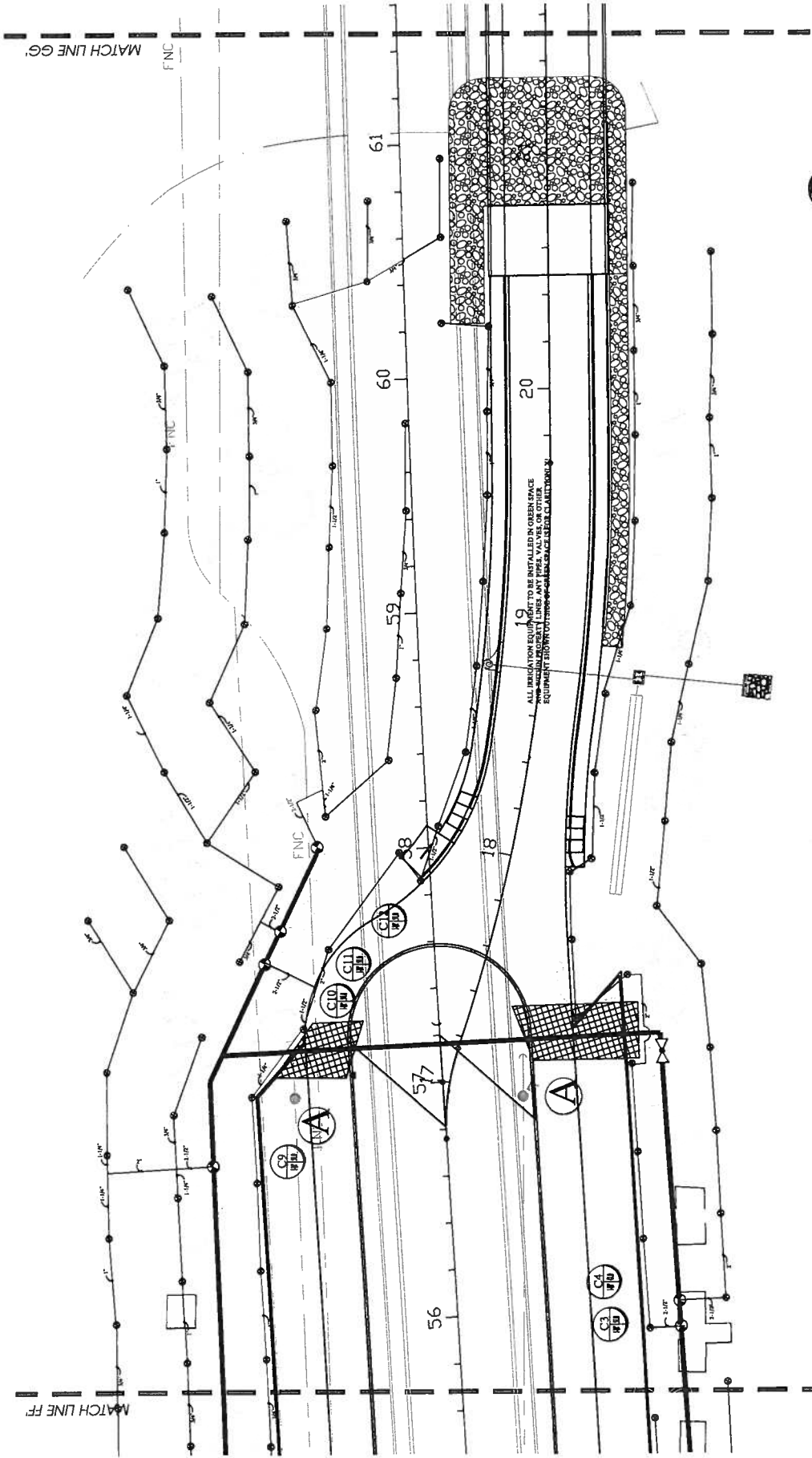
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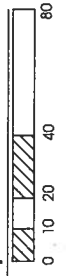
Final Irrigation Plan



SHEET NO.		FINAL LANDSCAPE PLAN		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID 228819-1-52-01		ROAD NO A1A		COUNTY MARTIN		17 of 29	
LUC MICHAEL HOUTON P.L.A. INC. HOUTON CLODGE GROUP 775 COLORADO AVENUE, SUITE 1 STUART, FLORIDA 34994		PUC 9.20.06											
REVISIONS		DATE		BY		DESCRIPTION							
		6-20-06		MM		Final Plan Review							
		1-06		MM		Revised for PDOT Review							
		5-06		MM		Revised for PDOT Review							



Final Irrigation Plan



Irrigation Concepts Inc.
1400 S.W. 22nd Ave., Ft. Lauderdale, Florida 33304

DATE	BY	DESCRIPTION
10-20-06	MM	Final Plan Review
10-20-06	MM	Revised for FDOT Review
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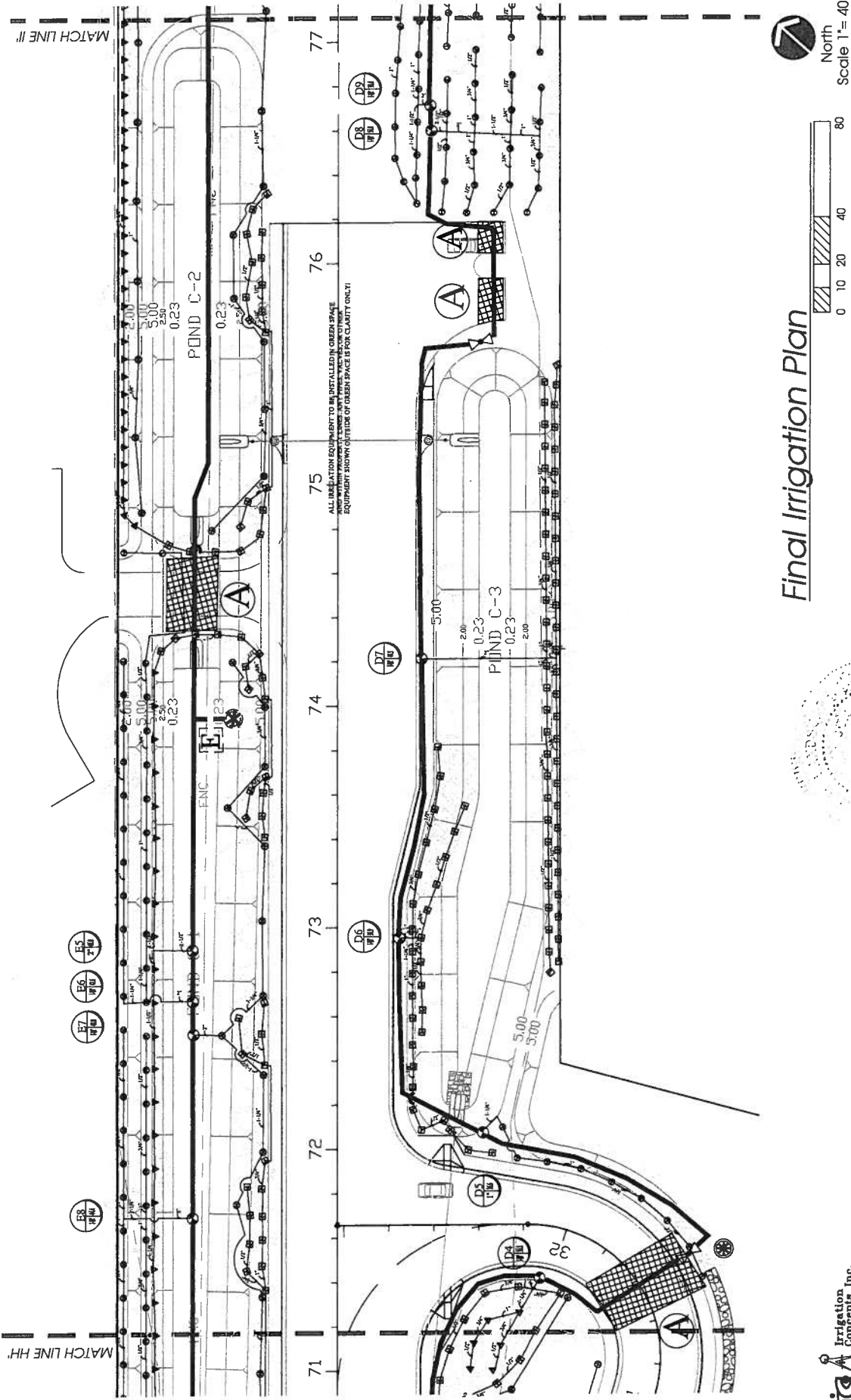
LOW-MOBILITY DESIGN
S.A. AND
TRISTON CLOZED GROUP
735 COLONIAL AVENUE, SUITE 1
STUART, FLORIDA 34994

10/20/06

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	MARTIN	228819-1-52-01

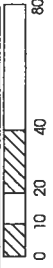
FINAL LANDSCAPE PLAN

SHEET NO.
18 of 29



Final Irrigation Plan

North
Scale 1" = 40'



DATE	BY	DESCRIPTION
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6-26-06	ME	Revised for FDOT Review
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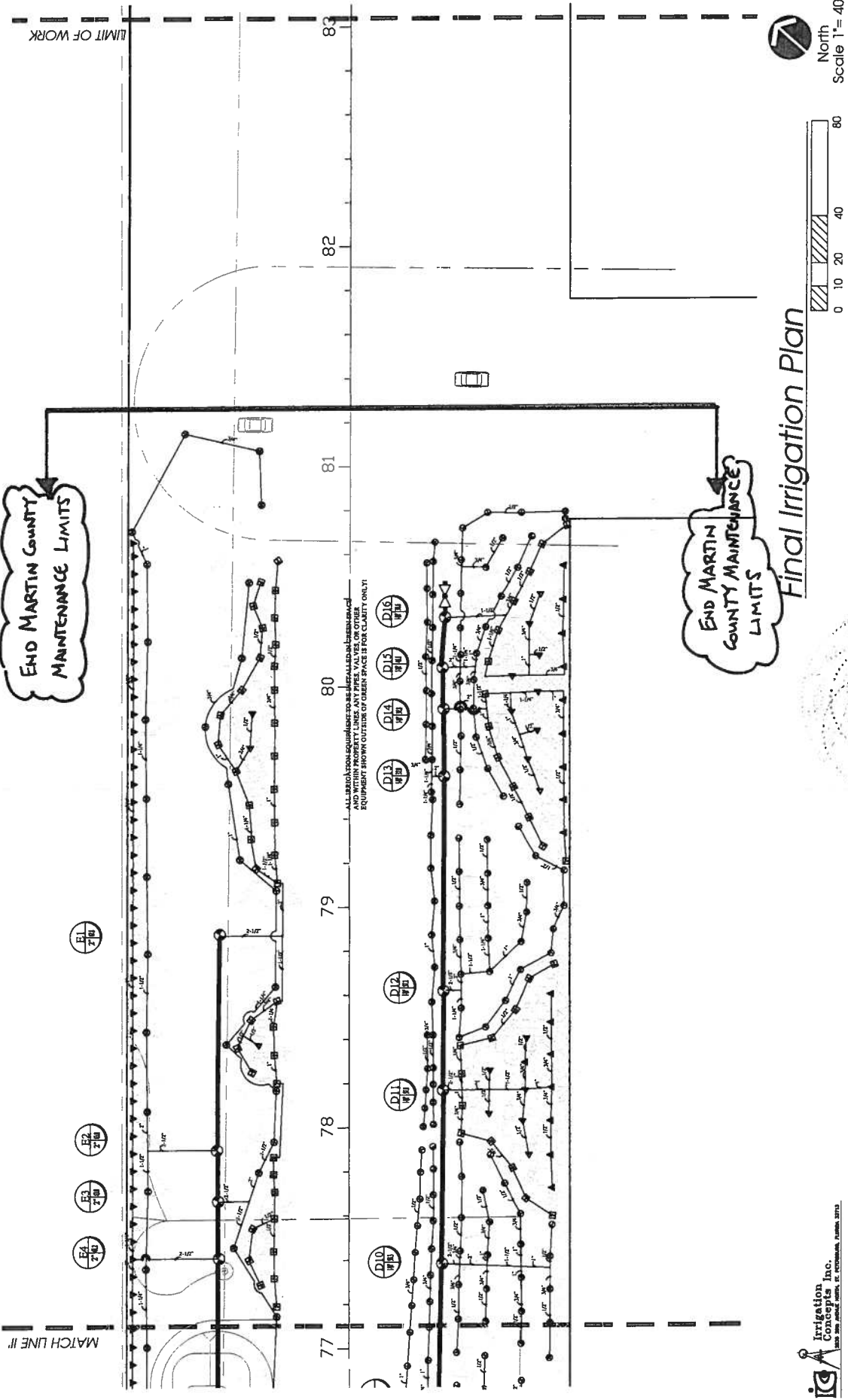
LOS ANGELES, CALIFORNIA
R.A. INC.
HOUSTON CLOUDES GROUP
7700 COLUMBIA AVENUE, SUITE 1
ST. LOUIS, MISSOURI 63106

REV 9/20/06

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	MARTIN	228819-1-52-01

FINAL LANDSCAPE PLAN

SHEET NO.
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Final Irrigation Plan



DATE		BY	DATE	DESCRIPTION	REVISIONS
10-06	10	10	10	Final Plan Review	1
10-06	10	10	10	Revised for FDOT Review	2
10-06	10	10	10	Revised for FDOT Review	3

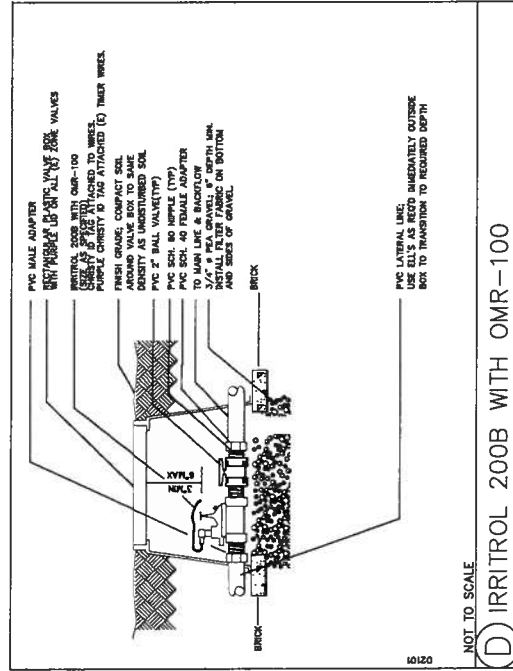
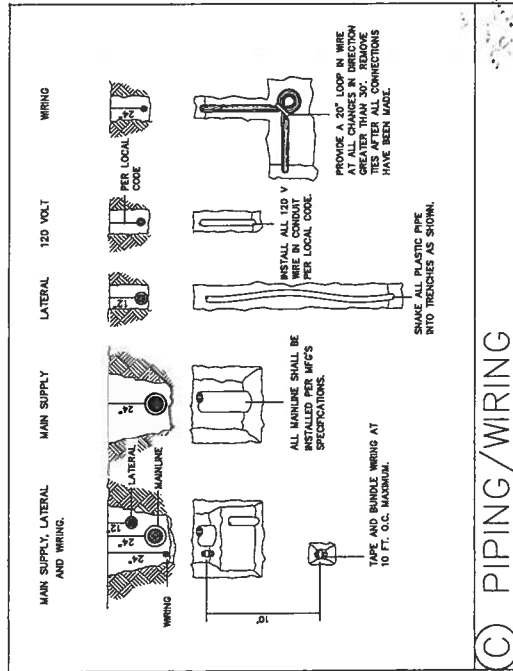
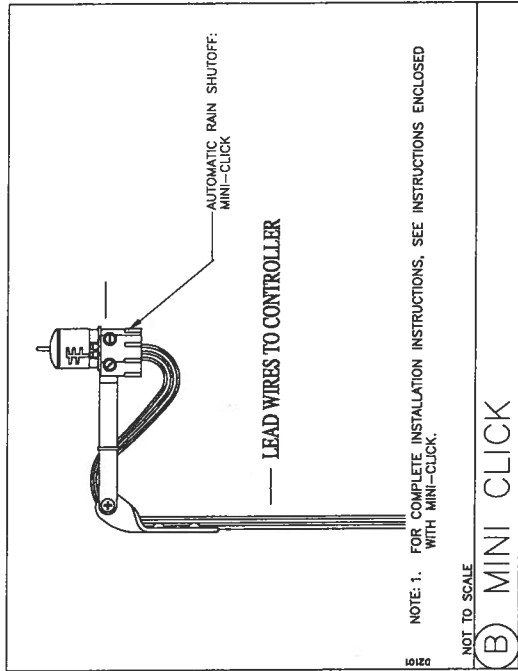
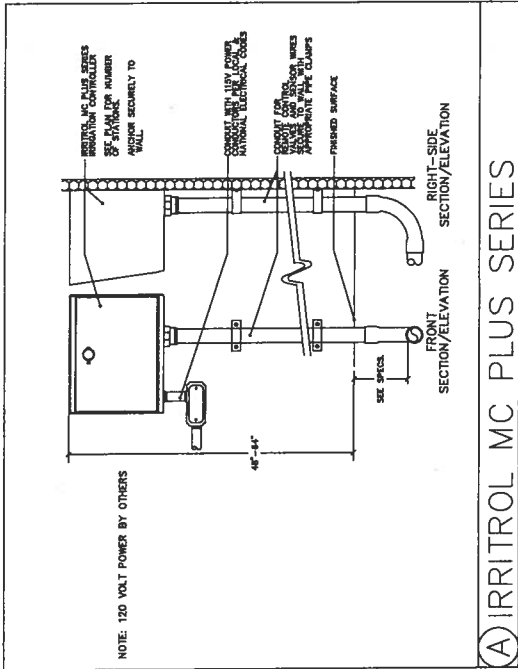
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO.		COUNTY		FINANCIAL PROJECT ID	
A1A		MARTIN		228819-1-52-01			

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FINAL LANDSCAPE PLAN

LOC. MICHAEL JACKSON
FLA. A27
ROCKWELL CLOZED GROUP
750 COLLEADO AVENUE, SUITE 1
STUART, FLORIDA 34994

REV. 01/06/06



REVISIONS		DESIGNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE DETAILS		SHEET NO.	22 of 29
DATE	BY	DESCRIPTION	PLAN	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PLAN		
10-04	1	751 COLONADO AVENUE, SUITE 1	STANLEY, FLORIDA 34904	A1A	MARTIN	228819-1-52-01			
10-04	2	Revised for FOOT Review							
10-04	3	Revised for FOOT Review							



DATE BY

DESCRIPTION

Final Plan Review

Reviewed by FDOT Review

Revised by FDOT Review

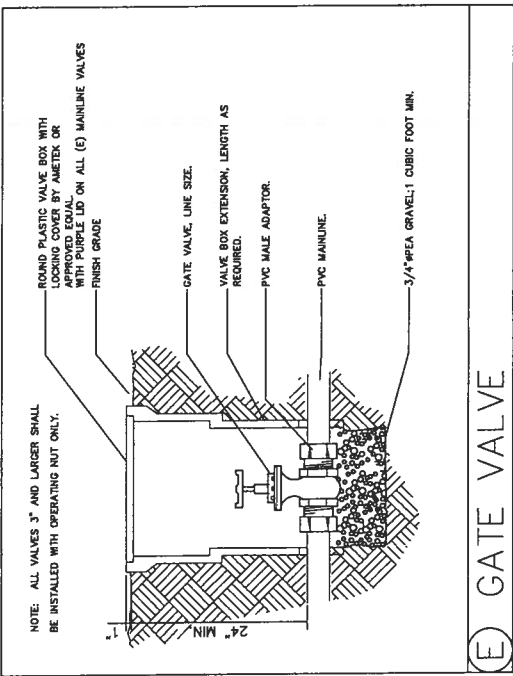
US-MICHIGAN IRRIGATION
S.A. INC.
IRROGATOR COOPER GROUP
775 COLORADO AVENUE, SUITE 1
STUART, FLORIDA 34994

9.20.06

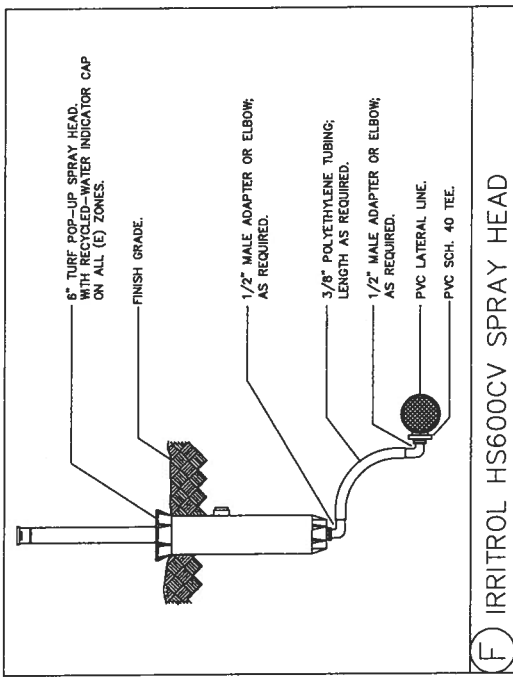
STATE OF FLORIDA DEPARTMENT OF
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ROAD NO. COUNTY FINANCIAL PROJECT ID
A1A MARTIN 228819-1-52-01

SHEET
NO.
23 of 29

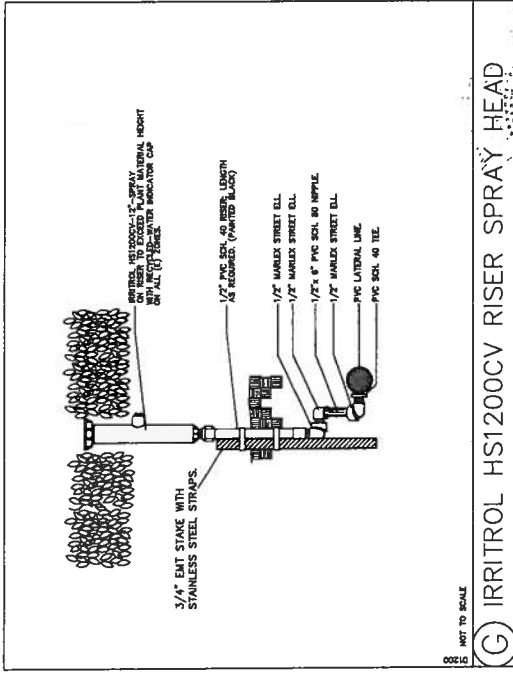
LANDSCAPE DETAILS
PLAN



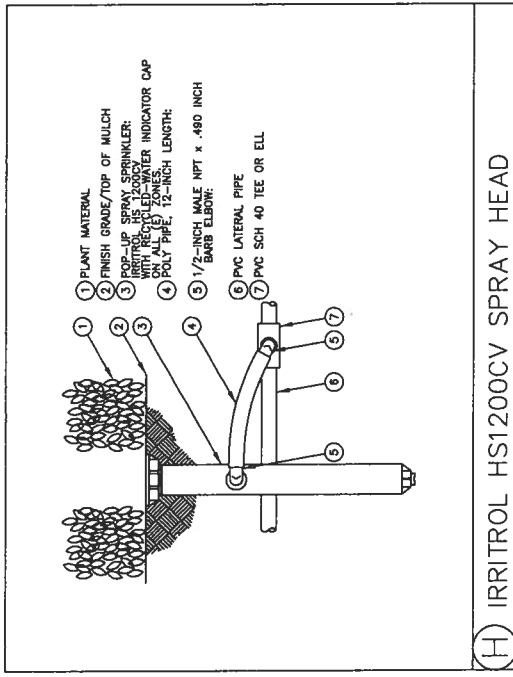
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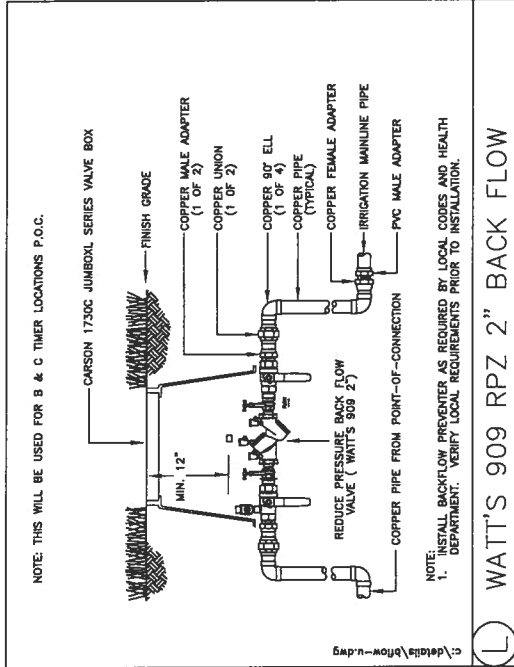
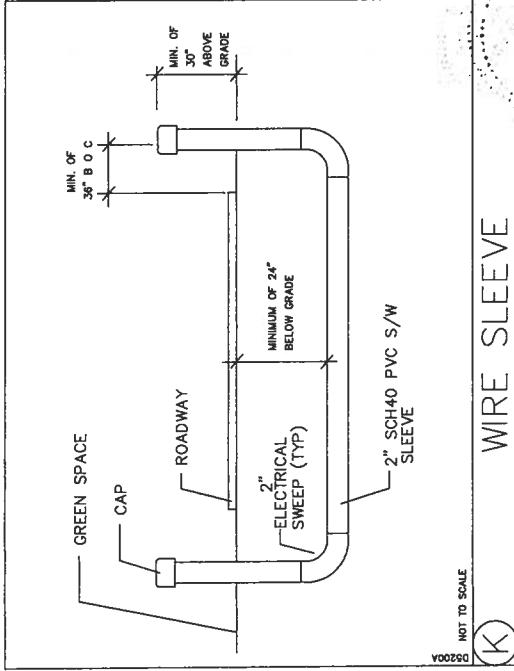
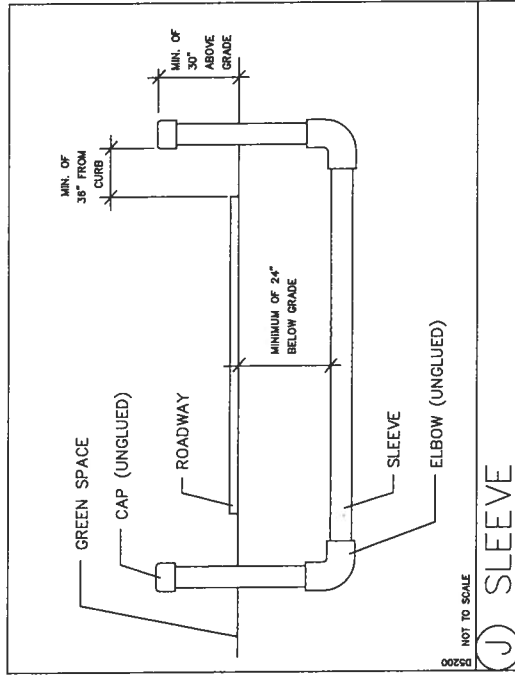
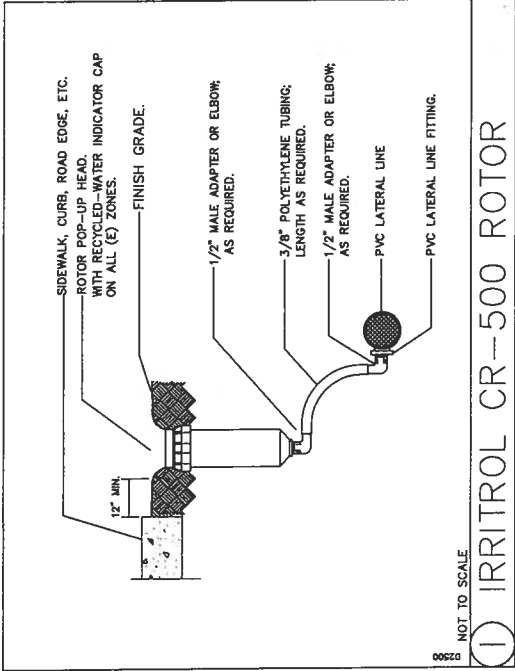
(F) IRRITROL HS600CV SPRAY HEAD



(G) IRRITROL HS1200CV RISER SPRAY HEAD



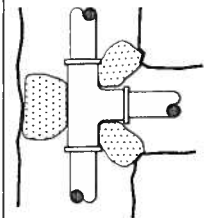
(H) IRRITROL HS1200CV SPRAY HEAD



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				LANDSCAPE DETAILS		SHEET NO.
DATE	BY	REASON	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	FINANCIAL PROJECT ID	PLAN		24 of 29
4-20-06	MM	Final Plan Review	Final Plan Review	A1A	MARTIN	228819-1-52-01	228819-1-52-01			
4-24-06	MM	Revised for FOOT Review	Revised for FOOT Review							
5-24-06	MM	Revised for FOOT Review	Revised for FOOT Review							

LOG-MICHAEL JOHNSON
S.A. JEP
BOULDER COUNTY GROUP
770 COLORADO AVENUE, SUITE 1
FT. WORTH, TEXAS 76104

9-20-06



INSTALLATION NOTES

1. All mainline to be installed and tested according to the manufacturer's instructions which shall be a part of the installation specifications.
 2. All trench depth and width shall be as indicated in the specifications.
 3. 2000 psi concrete or better is to be used for the thrust blocks.
 4. For tees, a minimum of 2 cubic feet of concrete is to be used.
- NOTE: IT IS ASSUMED THAT THIS MAY BE A O-RING MAIN LINE
IF SO FOLLOW THE ABOVE PROCEDURE.

NOTE: THIS WILL BE USED FOR D TIMER LOCATIONS P.O.C.

NOT TO SCALE

(M) P.O.C. AT MARIOTT THRUST BLOCK

3" TWIN FILTER

INLET/OUTLET DIAMETER	3 IN. FL & GR
RECOMMENDED MAXIMUM PRESSURE	140 P.S.I.
MAXIMUM FLOW RATE	175 G.P.M.
FILTERING SURFACE AREA	291 SQ. IN.
FILTERING VOLUME	150 CU. IN.
LENGTH OF FILTER	33.3 IN.
WIDTH OF FILTER	11-13/16 IN.
DISTANCE BETWEEN END CONNECTIONS	12-19/32 IN.
WEIGHT - (FLANGED)	26.8 LBS
WEIGHT - (GROOVED)	25.4 LBS

Model 25-A-5033CL-G (Grooved)*
25-A-5033CL-F (Flanged)*



NOT TO SCALE

RECLAIM FILTER

Reclamation, Inc.
1000 S.W. 10th Ave., Suite 100
Fort Lauderdale, Florida 33304

DATE	BY	DESCRIPTION
1-1-00	MM	Final Plan Review
1-1-00	MM	Reviewed for P.O.C. Review
1-1-00	MM	Reviewed for P.O.C. Review

LOCAL INSURANCE
FLA. ACCT
INSURANCE GROUP
7500 COLUMBIA AVENUE, SUITE 1
STUART, FLORIDA 34994

POC 7-20-06

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	A1A	MARTIN	728819-1-52-01

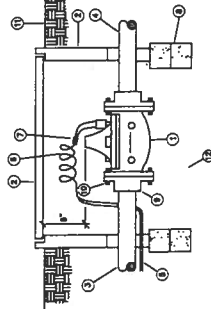
LANDSCAPE DETAILS
PLAN

SHEET
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LEGEND

1. 3" DIA. 80 PSI MIN. WALL THICKNESS REDUCING
2. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
3. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
4. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
5. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
6. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
7. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
8. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
9. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
10. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
11. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX
12. 3" DIA. 80 PSI MIN. WALL THICKNESS VALVE BOX



NOT TO SCALE

(N) 3" CLA-VAL FOR RECLAIM CONNECTION

ITS PUMP CONTROLLER MODEL 175F

TO INCLUDE THE FOLLOWING

1. MICRO PROCESSOR LOGIC
2. START PUMP
3. START/STOP SWITCHES (START) (STOP) (LOW PRESSURE)
4. NEMA 4 ENCLOSURE
5. HAND OFF AUTO SWITCH FOR PUMP.
6. LOW PRESSURE RESET
7. GREEN RUN LIGHT FOR EACH PUMP.
8. FUSED DISCONNECT
9. E-CLIPS SURGE SUPPRESSER.
10. ISOLATION RELAY FOR PUMP.
11. PHASE MONITOR
12. 3 PHASE MAGNETIC STARTER WITH THERMAL OVERLOADS FOR PUMP.

CONTACT ITS AT 727-521-3320

NOT TO SCALE

PUMP CONTROL PANEL

ALL HEADS ON (E) TIMER TO HAVE RECYCLED-WATER INDICATOR CAP

Symbol Sprinkler Heads

- (T) IRRITROL HS 600CV SERIES 15' Series ADJ
- (H) IRRITROL HS 600CV SERIES 7' Series ADJ
- (P) IRRITROL HS 600CV SERIES 12' Series ADJ
- (L) IRRITROL HS 600CV SERIES 9' Series ADJ
- (U) IRRITROL HS 600CV SERIES 15' Strip Series-EST
- (W) IRRITROL HS 600CV SERIES 15' Strip Series-SST
- (O) IRRITROL HS 600CV SERIES 12' Series 360
- (S) IRRITROL HS 600CV SERIES 15' Series 360
- (K) IRRITROL HS 600CV SERIES 10 Series 360
- (R) IRRITROL HS 600CV SERIES 15' Series 180

(R) IRRITROL HS 600CV SPRAY HEADS LEGEND

ALL HEADS ON (E) TIMER TO HAVE RECYCLED-WATER INDICATOR CAP

Symbol Sprinkler Heads

- (F) IRRITROL HS 1200CV SERIES 7' Series 180
- (H) IRRITROL HS 1200CV SERIES 7' Series ADJ
- (T) IRRITROL HS 1200CV SERIES 15' Series ADJ
- (L) IRRITROL HS 1200CV SERIES 9' Series ADJ
- (P) IRRITROL HS 1200CV SERIES 12' Series ADJ
- (J) IRRITROL HS 1200CV SERIES 10 Series 180
- (N) IRRITROL HS 1200CV SERIES 12' Series 180
- (Q) IRRITROL HS 1200CV SERIES 15' Series 090
- (R) IRRITROL HS 1200CV SERIES 15' Series 180

(S) IRRITROL HS 1200CV SPRAY HEADS LEGEND

ALL HEADS ON (E) TIMER TO HAVE RECYCLED-WATER INDICATOR CAP

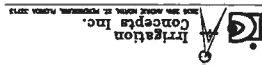
Symbol Sprinkler Heads

- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-9-Series-360
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-7-Series-360
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-12-Series-360
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-360
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-12-Series-180
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-9-Series-180
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-180
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-ADJ
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-12-Series-ADJ
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-9-Series-ADJ
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-7-Series-ADJ
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-090
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-EST
- (A) IRRITROL HS 1200CV (RISER MOUNTED)-SERIES-15-Series-SST

(T) IRRITROL HS 1200CV (RISER MOUNTED) SPRAY HEADS LEGEND

DATE		BY	DESCRIPTION		REVISIONS	FOR: LOCAL HOUSTON	STATE OF FLORIDA DEPARTMENT OF	SHEET NO.
0406			Final Plan Review			SEA, AEP	TRANSPORTATION	26 of 29
0406			Revised for PDDT Review			HOUSTON CADDIS GROUP	ROAD NO.	
0406			Revised for PDDT Review			700 COLORADO AVENUE, SUITE 1	COUNTY	
						STUART, FLORIDA 3499	MARTIN	
							FINANCIAL PROJECT ID	
							228819-1-52-01	

LANDSCAPE DETAILS
PLAN

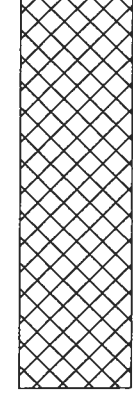


ALL HEADS ON (E) TIMER TO HAVE RECYCLED-WATER INDICATOR CAP

Symbol Sprinkler Heads

- ▼ IRRITROL CR500 Nozzle .75 ADJ
- ▼ IRRITROL CR500 Nozzle .75 360
- ⊕ IRRITROL CR500 Nozzle 2.5 360
- ⊗ IRRITROL CR500 Nozzle 2.5 ADJ

(U) IRRITROL CR500 ROTOR LEGEND



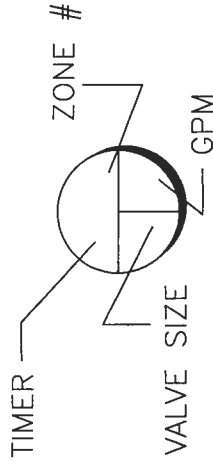
- Ⓐ 6" / 4" / 2" SCH-40 SLEEVE
- Ⓑ 6" / 2" SCH-40 SLEEVE

(V) SLEEVE LEGEND

Irrigation Equipment Table

- (A) IRRITROL MC PLUS SERIES MODEL MC-18 PLUS-B
- 7.5HP PUMP STATION WITH CONTROLS
- 3" BRASS GATE VALVE
- IRRITROL 200B WITH OMRI 100 VALVE(SIZE AS SPECIFIED)
- SCH-40 3" SOLVENT WELD MAIN LINE
- SCH-40 3" SOLVENT WELD LATERAL PIPE (SIZE AS SPECIFIED)



(X) TIMER (A) EQUIPMENT LEGEND



(W) VALVE TAG DETAIL



REVISIONS		DATE	BY	DESCRIPTION	FOR JOSHUA ROUSTON FLA. ACP ROUSTON CLOZED GROUP 715 CORDADO AVENUE, SUITE 1 STUART, FLORIDA 34994	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE DETAILS PLAN		SHEET NO.
1-04-06	ME			Final Plan Review		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	27 of 29	
1-04-06	ME			Revised for PDOT Review		A1A	MARTIN	228819-1-52-01		
1-04-06	ME			Revised for PDOT Review						

Irrigation Equipment Table
Equipment
Symbol

-  IRRITROL MC PLUS SERIES MODEL MC-12 PLUS-B
 CITY WATER SUPPLY WITH WATTS 909 2\"/>





(Y) TIMER (B) EQUIPMENT LEGEND

Irrigation Equipment Table
Equipment
Symbol

-  IRRITROL MC PLUS SERIES MC-18 PLUS-B
 CITY WATER SUPPLY WITH WATTS 909 2\"/>



(Z) TIMER (C) EQUIPMENT LEGEND

Irrigation Equipment Table
Equipment
Symbol

-  IRRITROL MC PLUS SERIES MC-18 PLUS-B
 P.O.C. TO EXISTING SYSTEM MAIN LINE AT MARRIOTT (CONTACT DEAN
 TUCKEY AT 772-225-3700 IT HAS BEEN ASSUMED THAT THIS WILL BE
 AT LEAST 2\"/>

(1) TIMER (D) EQUIPMENT LEGEND

Irrigation Equipment Table
Equipment
Symbol

-  IRRITROL MC PLUS SERIES MC-18 PLUS-B
 P.O.C. TO 8\"/>

(2) TIMER (E) EQUIPMENT LEGEND



DATE		BY	DESCRIPTION	REVISIONS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.
10-06	10-06	10-06	Final Plan Review	10-06	A1A	MARTIN	228819-1-52-01	28 of 29	
LUG: MICHAEL J. BERTON AIA, AIA 1715 COLONIAL AVENUE, SUITE 1 STUART, FLORIDA 34994				LANDSCAPE DETAILS PLAN					

1. RISER MOUNTED SPRAY HEADS SHALL BE UTILIZED AS REQUIRED:

- A. IN PLANTING BEDS ADJACENT TO BUILDING OR STRUCTURES
- B. TO BE INSTALLED 6" ABOVE PLANT HEIGHT.
- C. NOT TO BE INSTALLED IN PARKING ISLANDS, ALONG WALKS, CURBS, ENTRANCE ROADS OR WHERE HIGHLY VISIBLE.
- D. RISERS TO BE OF SCHEDULE 40 AND PAINTED FLAT BLACK.

2. HIGH POP-UP SPRAYS TO BE UTILIZED AS REQUIRED:

- A. IN PLANTING BEDS WHERE SPRAY HEAD IS IN LOW PLANTING OR GROUND COVER (MATURE PLANT HEIGHT IS 1' - 18").
- B. IN PARKING ISLANDS CONTAINING GROUND COVER PLANTING.
- C. WHERE IT IS ADVANTAGEOUS TO CONCEAL SPRINKLER HEAD DUE TO HIGH PEDESTRIAN TRAFFIC, VISIBILITY, VANDELISM AND MAINTENANCE, INSTALL SPRAY HIGH POP ON RISER TO THE TOP OF THE SPRAY BODY IS ELEVATED TO THE TOP OF THE PLANT MATERIAL.

3. CHANGES IN HEAD PLACEMENT

SHOULD ALWAYS BE DONE TAKING INTO CONSIDERATION:

- A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE SOD AND PLANT MATERIAL.

B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND

PRECIPITATION RATE. (NEVER INSTALL BUBBLERS AND SPRAYS ON THE SAME ZONE).

- C. THE SPACING BETWEEN HEADS SHALL NOT EXCEED 50% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.

4. POP-UP SPRINKLER HEADS SHALL BE INSTALLED:

- A. 3" TO 6" FROM EDGE OF CURB OR SIDEWALK.
- B. 12" TO 18" FROM EDGE OF PAVEMENT (WHERE NO CURB EXISTS).
- C. FLUSH WITH FINISH GRADE.

5. AUTOMATIC CONTROL TIMER LOCATION TO BE VERIFIED WITH ARCHITECT AND/OR OWNER. ALL CONTROL WIRES TO BE #14 UF-DIRECT BURIAL. POWER TO CONTROL TIMER TO BE SUPPLIED BY OWNER.

6. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED BY THE ARCHITECT AND/OR OWNER, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT THE ARCHITECT AND/OR OWNER FOR APPROVAL.

7. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, SPRINKLER HEADS, SPRINKLER VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES, AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP EDGED OBJECTS. MINIMUM COVER SHALL BE AS FOLLOWS: PRESSURE MAINLINE 24" AT TOP OF PIPE TO FINISH GRADE. LATERAL PIPING 12" AT TOP OF PIPE FROM FINISH GRADE.

8. INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE FREE SOIL, FREE OF FOREIGN MATTER. WITHIN RADIUS OF 4" OF THE PIPE SHALL BE CLEAN SOIL OR SAND. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.

9. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE SPRINKLER EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOT BALLS, LIGHTS, BOLLARDS, FENCES, ETC.

10. BEFORE SPRINKLER HEADS ARE SET, THE CONTRACTOR SHALL FLUSH THE LINES THOROUGHLY TO MAKE SURE THERE IS NO FOREIGN MATTER IN THE LINES. THE CONTRACTOR SHALL FLUSH THE MAIN LINES FROM FROM DEAD END FITTINGS FOR A MINIMUM OF FIVE MINUTES UNDER A FULL HEAD OF PRESSURE.

11. OPEN CUTS IN ASPHALT, WALKS AND/OR TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTORS RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC.

12. CONTRACTOR TO RUN 4 SPARE WIRES THE FULL LENGTH OF THE MAIN LINE AND TO CONTROLLER ON ALL 4 TIMERS.

3 GENERAL NOTES



DIVISIONS		DESCRIPTION		DATE		BY	
1. IRRIGATION		Final Plan Review		12-04		[Signature]	
2. LANDSCAPE		Final Plan Review		12-04		[Signature]	
3. ELECTRICAL		Final Plan Review		12-04		[Signature]	
4. PLUMBING		Final Plan Review		12-04		[Signature]	
5. MECHANICAL		Final Plan Review		12-04		[Signature]	
6. CIVIL		Final Plan Review		12-04		[Signature]	
7. ARCHITECTURAL		Final Plan Review		12-04		[Signature]	
8. OTHER		Final Plan Review		12-04		[Signature]	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO. COUNTY		FINANCIAL PROJECT ID	
A1A		MARTIN		228819-1-52-01	
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