

RESOLUTION NO. 2012- 113

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, APPROVING THE TERMS AND CONDITIONS OF AN AGREEMENT BY AND BETWEEN THE RIVERS EDGE COMMUNITY DEVELOPMENT DISTRICT (CDD) AND ST. JOHNS COUNTY; AUTHORIZING THE COUNTY ADMINISTRATOR OR DESIGNEE TO EXECUTE THE AGREEMENT AND ANY SUPPLEMENTAL DOCUMENTATION; PROVIDING FOR THE EFFECT OF RECITALS; PROVIDING FOR CORRECTION OF ERRORS; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Rivers Edge Community Development District ("CDD") and the St. Joe Company ("St. Joe") have entered into a Construction & Joint Use Agreement ("CJ Agreement") with the Florida Department of Transportation ("Department") allowing them to construct a roundabout and other improvements within the SR 13 right-of-way; and

WHEREAS, St. Joe and/or the CDD will construct a roundabout within the Department's SR 13 right of way, to include landscaping, irrigation, hardscape, signing, sidewalk / multiuse path, accent landscape lighting, pedestrian crosswalk lighting and the rectangular rapid flashing beacon ("RRFB") system within the pedestrian crosswalks (collectively the "Improvements"); and

WHEREAS, Pursuant to the terms and provisions of the CJ Agreement, St. Joe and the CDD or St. Joe alone will construct all improvements required to permit the Department to drain, detain and retain stormwater flowing from the relevant segment of SR 13 and the Improvements included within the project; and

WHEREAS, Plans for the Improvements are attached to this Agreement as Exhibit "A"; and

WHEREAS, through this agreement the CDD commits to the County to operate, maintain and repair the Improvements, Stormwater Pond and Drainage Facilities as described in the agreements at its sole expense and as specified under the FDOT CJ agreement; and

WHEREAS, Upon the Department's and County's approval of construction of the Improvements and Drainage Facilities, the County shall commit to FDOT for the operation, maintenance and repair the Improvements, Stormwater Pond and Drainage Facilities; and

WHEREAS, the County has reviewed the terms, provisions, and requirements of the Agreement, and has determined that accepting the terms of the Agreement serves the public interests of the citizens of St. Johns County.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AS FOLLOWS:

Section 1. The above Recitals are hereby incorporated into the body of this Resolution, and such Recitals are adopted as Findings of Fact.

Section 2. The Board of County Commissioners hereby approves the terms, conditions, provisions, and requirements of the CDD-St. Johns County Maintenance Agreement, and authorizes the County Administrator, or designee, to execute a written agreement substantially in the form of the attached Agreement, on behalf of the County.

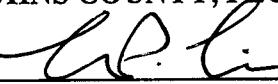
Section 3. The Board of County Commissioners further authorizes the County Administrator, or designee, to execute any supplement paperwork/documentation necessary to accomplish the overall goal set forth in the Agreement.

Section 4. To the extent that there are typographical, administrative or scrivener's errors that do not change the tone, tenor or concept of this Resolution, then this Resolution may be revised without further action by the Board of County Commissioners.

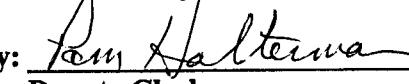
Section 5. This Resolution shall become effective immediately upon its adoption.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 3rd day of April, 2012.

**BOARD OF COUNTY COMMISSIONERS OF
ST. JOHNS COUNTY, FLORIDA**

BY: 
Mark P. Miner ---Chair

ATTEST: Cheryl Strickland, Clerk

By: 
Deputy Clerk

RENDITION DATE 4/5/12



MAINTENANCE AGREEMENT

THIS MAINTENANCE AGREEMENT ("Agreement") is made and entered into by and between St. Johns County, Florida ("County") and Rivers Edge Community Development District ("District").

- Recitals -

A. Whereas, the District and the St. Joe Company ("St. Joe") have executed a Construction & Joint Use Agreement ("CJ Agreement") with the Florida Department of Transportation (Department); and

B. Whereas, pursuant to the terms and provisions of the CJ Agreement, the District will construct a roundabout within the Department's SR 13 right of way, to include landscaping, irrigation, hardscape, signing, a sidewalk / multiuse path, accent landscape lighting, pedestrian crosswalk lighting and the rectangular rapid flashing beacon system within the pedestrian crosswalks (collectively "Improvements"); and

C. Whereas, the Improvements are now ready to be constructed pursuant to the plans attached to this Agreement as Exhibit "A"; and

D. Whereas, as noted in the CJ Agreement, St. Joe constructed a stormwater retention area and related drainage improvements on its property in the vicinity of the location of the Improvements ("Stormwater Pond"), the purpose of which is to receive water from St. Joe's adjacent RiverTown Development of Regional Impact as well as stormwater runoff from the Improvements and the relevant segment of SR 13; and

E. Whereas, pursuant to the terms and provisions of the CJ Agreement, the District alone will construct all drainage improvements required to permit the Department to drain, detain and retain stormwater flowing from the relevant segment of SR 13 and the Improvements, to the Stormwater Pond ("Drainage Facilities"); and

F. Whereas, the Department requires the County to be the party to sign an agreement with them for maintenance after the Department and County's approval of construction of the Improvements and the acceptance of the project, which agreement allows the County to delegate the duties accordingly; and

G. Whereas, pursuant to the terms of the development orders, the District and/or St. Joe is required to operate, maintain and repair, and keep the Improvements, Stormwater Pond and Drainage Facilities in order both functionally and aesthetically; and

H. Whereas, the County and the District desire to enter into this Agreement outlining the fact that the District will honor those obligations by fulfilling the maintenance duties undertaken by the County in their agreement with the Department.

NOW THEREFORE, with full knowledge and understanding of the laws governing the subject matter of this Agreement, and in consideration of the foregoing recitals and the mutual covenants and conditions contained in this Agreement, the parties, intending to be legally bound hereby, acknowledge and agree as follows:

1. RECITALS & EXHIBITS

The recitals set forth above and exhibits attached hereto are specifically incorporated by reference and made part of this Agreement.

2. EFFECTIVE DATE

The effective date of the Agreement shall be the date the last of the parties to be charged executes the Agreement ("Effective Date").

3. E-VERIFY

In their maintenance agreement with the Department, the County was required to agree to utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new

employees hired by the County during the term of the agreement, and to expressly require any subcontractors performing work or providing services pursuant to the Agreement to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term. Therefore, in accord with their obligation under the development orders and acting in the place of the County to maintain the improvements in proper order both functionally and aesthetically, the District agrees to ensure compliance by verifying the employment eligibility of all employees hired for the services outlined in this Agreement through the E-Verify system.

4. COMPLIANCE

The District shall perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions hereof and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, without limitation, those of the Department, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, Army Corps of Engineers, United States Coast Guard, St. Johns County and other local governmental entities ("Governmental Law").

5. PERMITS

In the performance of the Agreement the District may be required to obtain one or more Department and/or County permits which may include copies of this Agreement as an exhibit. Notwithstanding the inclusion or incorporation of this Agreement as part of any such Department and/or County permits, the Agreement shall remain separate and apart from such permits and shall not be merged into the same absent the prior written express consent of the Department and/or County. Should any term or provision of the Agreement conflict with any term, provision or requirement of any Department and/or County permit, the terms and provisions of the Agreement shall control unless specifically noted otherwise in any such Department and/or County permit. For purposes of this Agreement, the term "permit" shall also include the Department's Construction Agreement which may be required for permanent improvements installed within the Department's right-of-way.

6. OPERATION, MAINTENANCE & REPAIR

A. From the date of the Department and/or County acceptance of the construction of the Improvements and Drainage Facilities, the District shall operate, maintain and repair the Improvements, Drainage Facilities and Stormwater Pond at its sole cost and expense, in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement, including applicable Governmental Law. No term or provision of this Agreement shall obligate the County to operate, maintain or repair the Improvements, Stormwater Pond and/or Drainage Facilities, said obligations remain the sole responsibility of the District as specified in this section.

B. If the County determines that the Improvements, Stormwater Pond or Drainage Facilities are not being operated, maintained or repaired in accordance with the terms and provisions of this Agreement, the County shall deliver written notification of such to the District. The District shall have thirty (30) days from the date of the County's written notice, or such other time as the County and the District mutually agree in writing, to correct the deficiency and provide the County with written notice of the same.

C. If the deficiency is not corrected timely, or if the County determines that the deficiency remains after receipt of the County's notice, the County, within its sole discretion, may select one or more of the following remedies: (1) provide the District with written authorization granting such additional time as the County deems appropriate to correct the deficiency; or (2) correct the deficiency at the District's sole cost and expense. Should the County elect to correct the deficiency, the County shall provide the District with an invoice for the costs incurred by the County to correct the deficiency and the District shall pay the invoice in accordance with the Payment section of this Agreement.

D. If at any time in the sole determination of the County and/or the Department, the integrity or safety of the Improvements require immediate maintenance or repair for the benefit of public health, safety or welfare, the County and/or the Department may perform such maintenance and repairs it deems appropriate under the circumstances. The County and/or the Department shall provide the District with an invoice for the emergency maintenance and repairs performed by the County and/or the Department and the District shall pay the invoice in accordance with the Payment section of this Agreement.

7. MAINTENANCE OF TRAFFIC

A. The District shall be responsible for the maintenance of traffic ("MOT") at all times during the performance of this Agreement when required by applicable Governmental Law. MOT shall be performed in accordance with applicable Governmental Law and the most current edition of each of the following, as the same may be constituted and amended from time to time, all of which are incorporated herein and made part of the Agreement by reference: (1) Section 102 of the Department's Standard Specifications for Road and Bridge Construction; (2) the Manual on Uniform Traffic Control Devices; and (3) the Department's Roadway Design Standards Index 600 Series.

B. If the District fails to perform MOT as required herein, the Department and/or County, within its discretion, may elect to perform MOT at the District's sole cost and expense. Should the Department and/or County perform MOT, the Department and/or County shall provide the District with an invoice for the costs incurred by the Department and/or County and the District shall pay any such invoice in accordance with the Payment section of this Agreement.

8. PERMISSIVE USE

The District's performance of this Agreement creates a permissive use only'and shall not operate to create or vest any additional property rights in the District. The District shall not acquire any right, title, interest or estate in any Department or County right of way or property by virtue of the execution, operation, effect or performance of this Agreement.

9. NOTICE OF COMPLIANCE

Within thirty (30) days of the County's receipt of a written request from the District, the County shall provide written notice: (1) indicating whether the District is in default of any of the obligations set forth in this Agreement and, if so, identifying the default; and (2) indicating whether any funds are due and owing to the County pursuant to this Agreement.

10. PAYMENT

All Department and/or County invoices submitted for payment pursuant to the terms and provisions of this Agreement are due and payable within thirty (30) days of the date of the invoice ("Due Date"). Any portion of an invoice not received by the Department and/or County by the Due Date shall immediately thereafter begin accruing interest at a rate of interest established pursuant to §55.03, Florida Statutes, until paid in full (past due principle and accrued interest shall be collectively referred to as "Past Due Sums").

11. INDEMNIFICATION

A. To the maximum extent permissible under applicable Florida law, the District shall promptly defend, indemnify, and hold the County harmless from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, costs, losses, penalties, construction delay costs / penalties, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by or resulting from the District's negligence, intentional or wrongful acts, omissions or the performance or breach of this Agreement ("Liabilities"). The District shall immediately notify the County in writing upon becoming aware of any Liabilities. The District shall, upon the County's written demand, participate and associate with the County in the defense and trial of any Liabilities, including related settlement negotiations. The inability of the District to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph.

B. The term Liabilities shall also specifically include all civil and criminal environmental liability arising, directly or indirectly under any Governmental Law, including, without limitation, liability under the Resource Conservation and Recovery Act ("RCRA"), the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), the Clean Air Act ("CAA") and the Clean Water Act ("CWA").

C. The indemnification requirements set forth in this section specifically do not encompass indemnifying the County for its negligence, intentional or wrongful acts, omissions or breach of contract.

12. SOVEREIGN IMMUNITY & LIMITATION OF LIABILITY

Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the Department and/or County's sovereign immunity protections, or as increasing the limits of liability set forth in §768.28, Florida Statutes, as the same may be amended from time to time. The County's liability for breach of this Agreement is specifically: (1) limited to actual damages incurred by the District as a direct result of the

County's breach; and (2) further limited in amount and shall not, under any circumstances, exceed the limitations of liability for tort actions set forth in §768.28(5), Fla. Stat. (2011).

Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the District's sovereign immunity protections, or as increasing the limits of liability set forth in §768.28, Florida Statutes, as the same may be amended from time to time. The District's liability for breach of this Agreement is specifically: (1) limited to actual damages incurred by the Department and/or County as a direct result of the District's breach; and (2) further limited in amount and shall not, under any circumstances, exceed the limitations of liability for tort actions set forth in §768.28(5), Fla. Stat. (2011).

13. INSURANCE

A. At their sole cost and expense, the District shall procure and perpetually maintain a commercial general liability insurance policy, specifically naming the County as an additional insured and insuring the County and the District against any and all claims for injury or damage to persons and property, and for the loss of life or property, that may occur (directly or indirectly) by reason of the performance or breach of this Agreement. Such insurance shall be carried in a minimum amount of not less than One Million Dollars (\$1,000,000.00) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than One Million Dollars (\$1,000,000.00) for property damage, or a combined coverage of not less than two million dollars (\$2,000,000.00).

B. The policy of insurance required by this Agreement shall be issued by a company licensed to do business in the State of Florida. If during any term of this Agreement any insurance carrier provides notice to either party of its intent to cancel any of the required insurance policies, or not renew any of the required insurance policies, the District shall secure replacement insurance satisfying the requirements of this Agreement prior to the effective date of cancellation.

C. Annually, on or before the anniversary of the Effective Date, the District shall provide the County with certificates and other documents requested by the County evidencing that the required insurance is in place and effective.

14. DUE DILIGENCE & WARRANTIES

A. The District is solely responsible for any and all due diligence requirements related to its negotiation, execution and performance of this Agreement.

B. The County makes no representations or warranties of any kind, express or implied, concerning the Improvements, including, without limitation, representations and warranties regarding: (1) the physical condition of the Improvements; (2) compliance with local ordinances and zoning laws; (3) compliance with Governmental Law; and (4) merchantability or fitness for a particular purpose.

15. NOTICE

All notices, communications and determinations between the parties hereto and those required by the Agreement, including, without limitation, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States Mail, postage prepaid, to the parties at the following addresses:

St. Johns County Public Works Department
Attention: County Engineer
2740 Industry Center Road
St. Augustine, Florida 32084

With a copy to:
County Attorney's Office, St. Johns County
500 San Sebastian View
St. Augustine, FL 32084

Rivers Edge Community Development District ("District")
475 West Town Place, Suite 114
St. Augustine, FL 32092
Attention: District Manager

With a copy to:
Hopping Green & Sams, P.A.
119 S. Monroe Street, Suite 300
Tallahassee, FL 32301
Attention: District Counsel

16. GOVERNING LAW

This Agreement shall be governed in all respect by the laws of the State of Florida.

17. INITIAL DETERMINATION OF DISPUTES

The County Administrator or his designee shall act as the initial arbiter of all questions, difficulties, and disputes concerning the interpretation, validity, performance or breach of the Agreement.

18. VENUE AND JURISDICTION

A. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of the Agreement that are not resolved to the mutual satisfaction of the parties by the County Administrator or his designee shall lie exclusively in a state court of appropriate jurisdiction in St. Johns County, Florida.

B. The District and all persons and entities accepting an assignment of this Agreement, in whole or in part, shall be deemed as having consented to personal jurisdiction in the State of Florida and as having forever waived and relinquished all personal jurisdiction defenses with respect to any proceeding related to the interpretation, validity, performance or breach of this Agreement.

19. JURY TRIAL

The parties hereby waive the right to trial by jury of any dispute concerning the interpretation, validity, performance or breach of the Agreement, including, without limitation, damages allegedly flowing therefrom.

20. ASSIGNMENT

A. This Agreement is not freely assignable by the District. Assignments are not valid or effectual absent the County's prior written approval, which the County may deny with or without cause. Nothing in this section shall prevent the District from delegating its duties hereunder, but such delegation shall not release the District from its obligation to perform this Agreement.

B. All assignments shall be in writing as prepared by the County and shall be executed by the County, assignor and assignee. Fully executed original assignment agreements shall be delivered to, and maintained by the County.

21. THIRD PARTY BENEFICIARIES

This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for in this Agreement.

22. VOLUNTARY EXECUTION OF AGREEMENT

Each party warrants and represents to the other: (i) that it understands all of the rights and obligations set forth in the Agreement and the Agreement accurately reflects the desires of said party; (ii) each provision of the Agreement has been negotiated fairly at arm's length; (iii) it fully understands the advantages and disadvantages of the Agreement and executes the Agreement freely and voluntarily of its own accord and not as a result of any duress, coercion, or undue influence; and (iv) it had the opportunity to have independent legal advice by counsel of its own choosing in the negotiation and execution of the Agreement.

23. ENTIRE AGREEMENT

This instrument contains the entire understanding of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements, representations, covenants, and warranties with respect to the subject matter of this Agreement are waived and superseded by this Agreement.

24. EXECUTION OF DOCUMENTS

The parties agree that they shall promptly execute and deliver to the other all documents necessary to accomplish the intent and purpose of the Agreement and shall do all other acts to effectuate the Agreement.

25. SUFFICIENCY OF CONSIDERATION

By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in the Agreement and forever waive the right to object to or otherwise challenge the same.

26. WAIVER

The failure of either party to insist on the strict performance or compliance with any term or provision of the Agreement on one or more occasions shall not constitute a waiver or relinquishment of the rights provided in this Agreement and all such terms and provisions shall remain in full force and effect unless waived or relinquished in writing.

27. INTERPRETATION

No term or provision of the Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

28. CAPTIONS

Paragraph title or captions contained herein are inserted as a matter of convenience and reference and in no way define, limit, extend or describe the scope of the Agreement, or any provision hereof.

29. SEVERANCE

If any section, paragraph, clause or provision of the Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of the Agreement shall remain in full force and effect and the parties shall be bound by the same so long as principle purposes of the Agreement remain enforceable.

30. COMPUTATION OF TIME

In computing any period of time prescribed in the Agreement, the day of the act, event or default from which the designated period of time begins to run, shall not be included. The last day of the period shall be included unless it is a Saturday, Sunday or legal holiday, in which event the period shall run until the end of the next day which is not a Saturday, Sunday or legal holiday.

31. MODIFICATION OF AGREEMENT

A modification or waiver of any of the provisions of the Agreement shall be effective only if made in writing and executed with the same formality as the Agreement.

[Remainder of Page Left Intentionally Blank, Signature Page Follows]

IN WITNESS WHEREOF, intending to be legally bound hereby, the parties hereby execute this Agreement, consisting of seven (7) pages, plus Exhibit A.

St. Johns County

By: _____

Printed Name: _____

Title: _____

Date: _____

Legal Review:

By: _____

Office of the County Attorney
St. Johns County BOCC

DISTRICT

By: John Grueter

Printed Name: JOHN GRUETER

Title: Chairman

Date: 2/22/12

Legal Review:

By: Erin Chukarain

Legal Counsel for District

Witnesses:

By: _____

Printed Name: _____

By: _____

Printed Name: _____

Attest:

By: Erin Chukarain

Printed Name: Erin Chukarain

Title: _____

Date: 2/22/12

Exhibit "A"
(Plans for the Improvements)

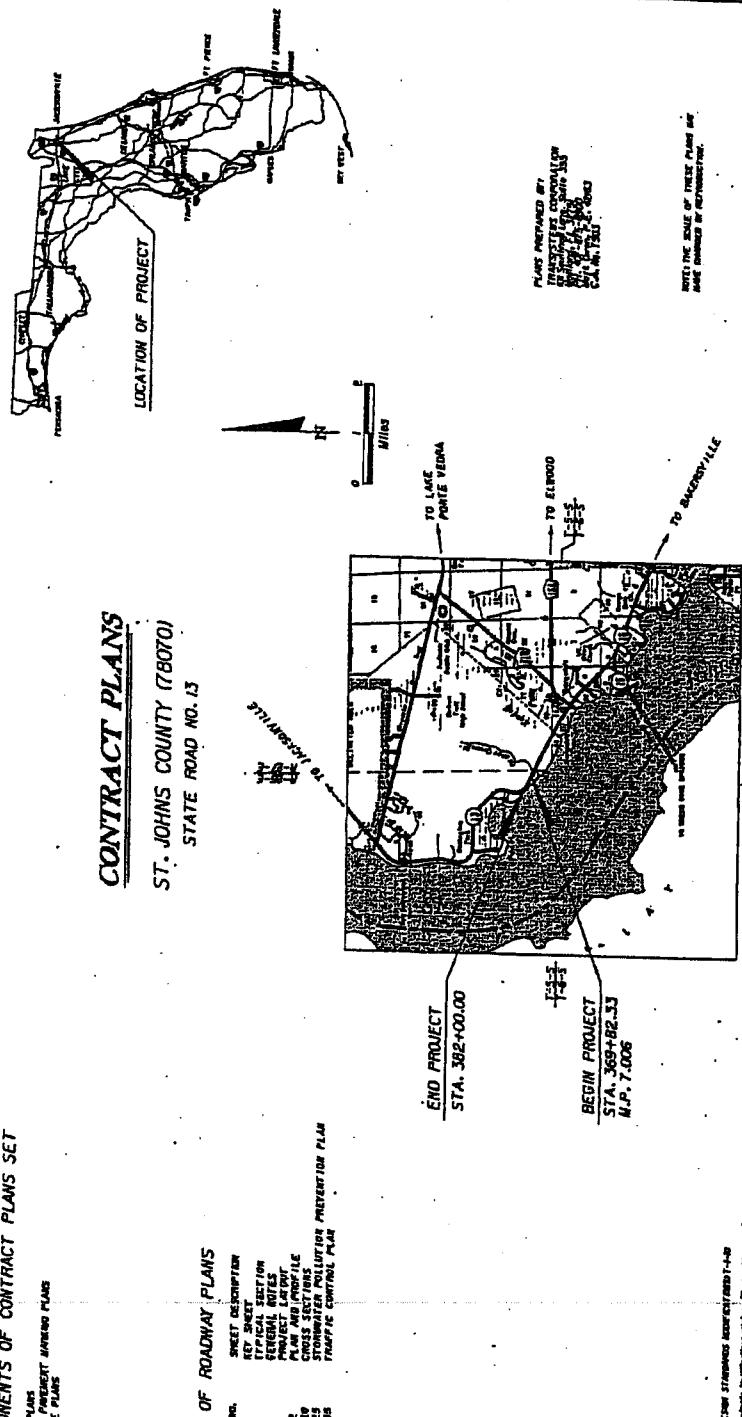
COMPONENTS OF CONTRACT PLANS SET
 ROADWAY PLANS
 SOUND & PARTITION WALLING PLANS
 LANDSCAPE PLANS

CONTRACT PLANS

ST. JOHNS COUNTY (76070)
 STATE ROAD NO. 13

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-8	TYPIFICAL SECTION
9	GENERAL NOTES
10-12	PROJECT LIMITS
13-14	CROSS AND PROFILE
15-16	CLASSES AND TYPES
17-18	STORMWATER POLLUTION PREVENTION PLAN
19-20	TRAFFIC CONTROL PLAN
21-25	
26-28	



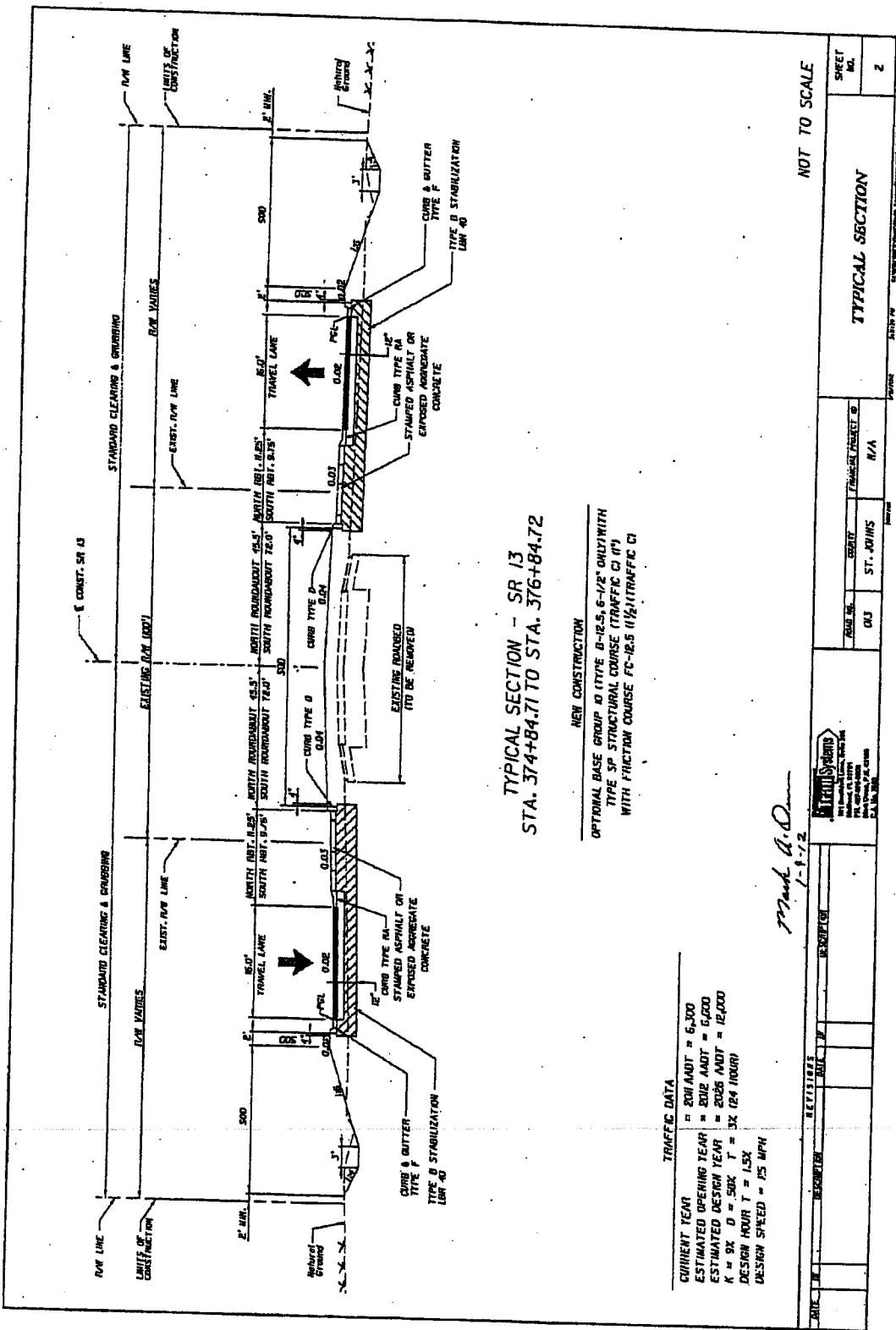
PROJECT STATEMENT NUMBER 76070-1-48
 For Design, Construction, Inspection and Testing of the above-named Project.
 Contract documents, drawings, specifications, plans, statements and instructions
 herein contained, or otherwise made available by the Owner, shall govern all work
 performed under this contract. The Owner reserves the right to make changes
 in the design or in the work at any time during construction, subject to the terms and
 conditions of contract, dated 06/10/2002, as amended by contract documents.

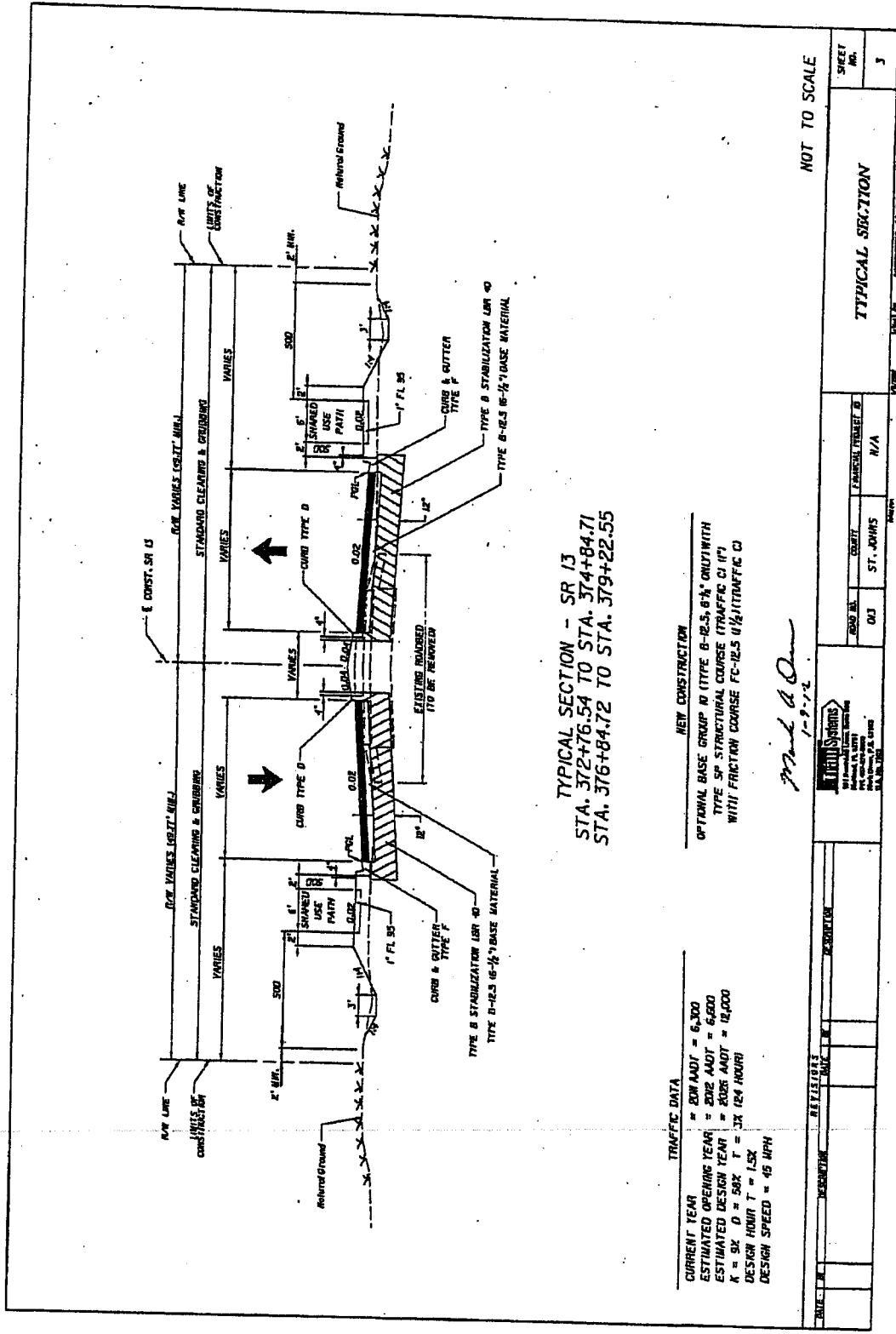
LENGTH OF PROJECT

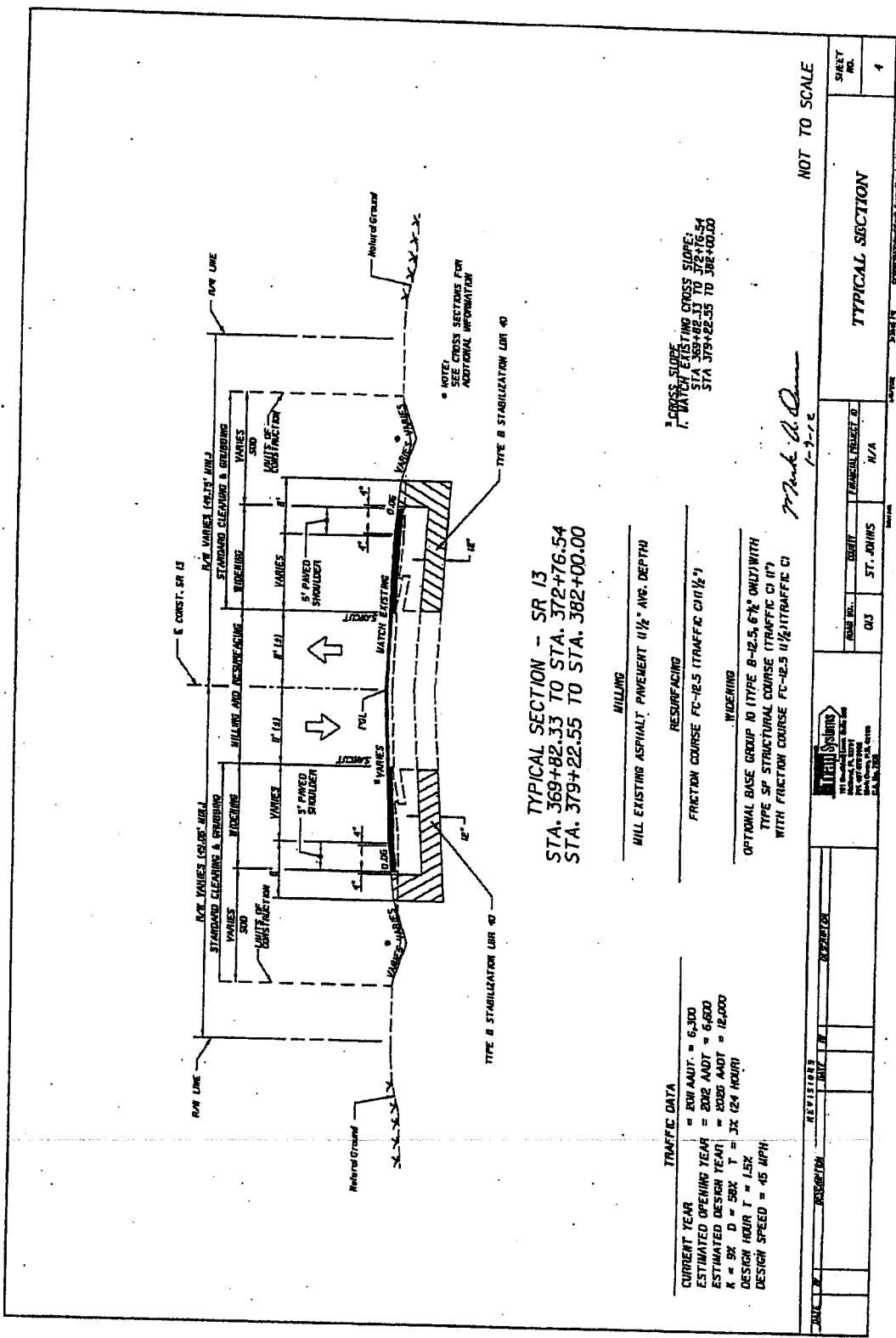
LINEAR FEET	MILES
ROADWAY	0.223
BRIDGES	0.000
NET LENGTH OF PROJECT	0.223
EFECTS	0.223
GROSS LENGTH OF PROJECT	0.223

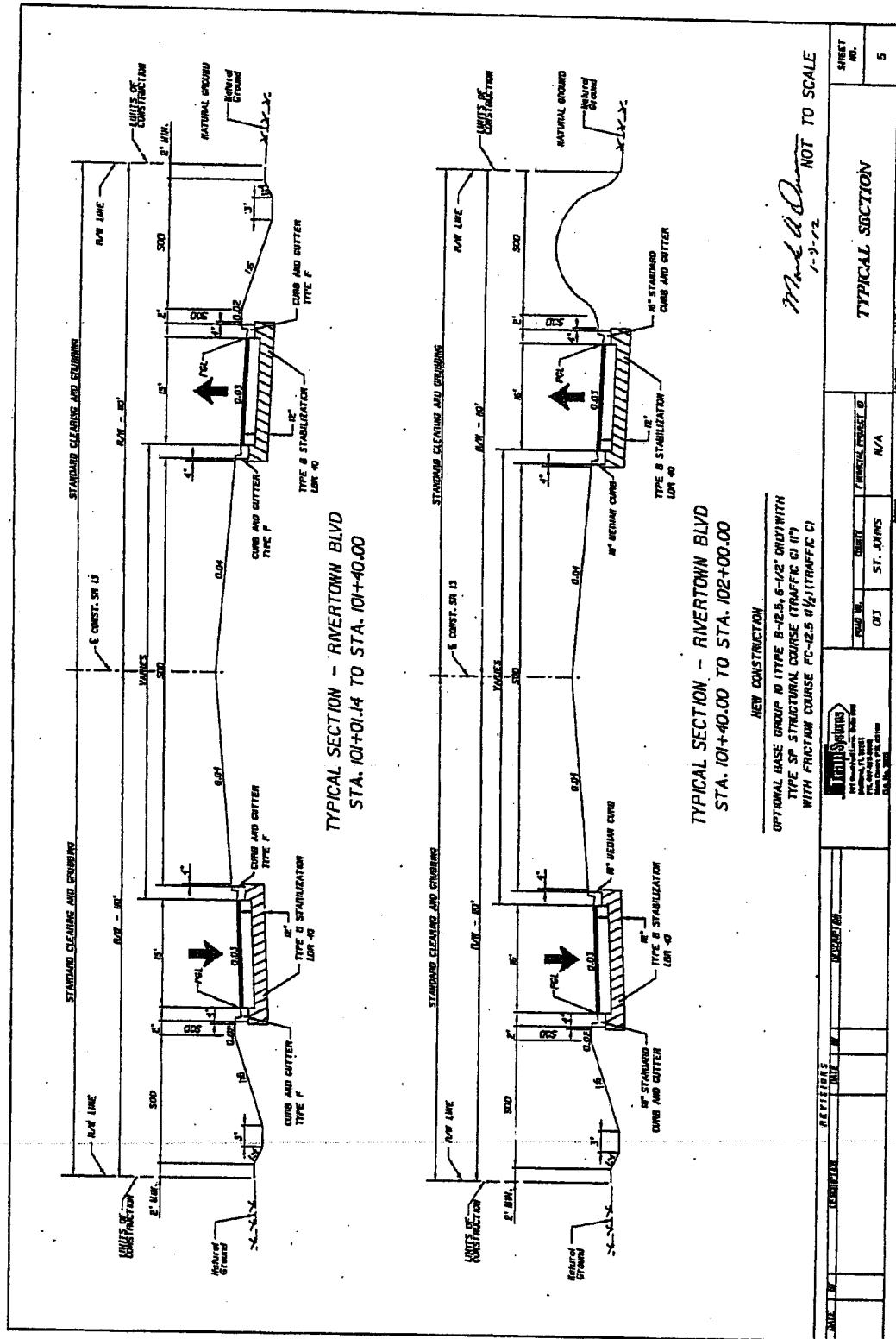
FOOT PROJECT MANAGER: COMME & PAULER

<i>Mark A. Davis</i>	
NUMBER	1
DATE PREPARED	1/19/02
DATE RECEIVED	1/19/02
PREPARED BY	FLORIDA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ST. JOHNS COUNTY, FLORIDA
FISCAL YEAR	12
SHEET NO.	1









GENERAL NOTES

Benchmark Data is National Geodetic Vertical Datum of 1989 (NVD 89).

1. BENCHMARK DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1989 (NVD 89).
 BN NO. "S-1137"
 ST. JUAN COUNTY
 GEODESTIC CONTROL MARKER
 MHT # 4,068,327, JFO
 ELEV. = 455.748 ± 0.274
 EL. = 14.11
 ST. JUAN COUNTY SURVEY
 ELEV. = 455.748 ± 0.274
 EL. = 14.11
2. EXISTING GRAVITY STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.

3. THE LOCATIONS OF THE UTILITIES ARE BASED ON THE PLANS AND SHOULD BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE POINT SHOWN. INTERIOR LINE REFERENCE POINTS HAVE NOT BEEN TAKEN. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.

4. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SWEEPER STATE ONE CALL OF FLORIDA IF CONSTRUCTION OR USE OF UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS OF THE JOB SITE.

- UTILITY OWNERS

- COMPANY CONTACT PERSON TELEPHONE NUMBER
 FLORIDA POWER & LIGHT SCOTT SWEENEY (800) 467-7265
 CALIFORNIA ELECTRIC AUTHORITY AMY NEHRMAN (800) 467-7673
 BELMONT ELECTRONIC CATERERS, INC. LAUREN WIRGINI (800) 467-6169
 AT&T COMMUNICATIONS STEVE PETERSON (800) 467-3265
 TECO POWER & GAS JAMES CARTER (800) 467-3168
 (800) 467-2155

5. ANY PUBLIC LAND LOCATED ON BENCH BANK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. THE PROJECT ENGINEER SHOULD ADVISE THE DISTRICT SURVEYOR, WITHOUT DELAY, IF THE CONTRACTOR IS IN DANGER OF DESTROYING AND HAS NOT BEEN PROPERLY REFERENCED.

6. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERMITTING AND THE CONTRACTOR IS NOT THE CONTRACTOR'S HAZARDOUS MATERIALS MANAGER, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PREPARE A COPY OF THE DISTRICT CONSTRUCTION IMPACTS COORDINATOR (DCIC). THE CONTRACTOR SHALL PREPARE A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL. THE CONTRACTOR SHALL CONSULT WITH THE DCIC PRIOR TO ISSUING WRITTEN APPROVAL TO CONSTITUTE AND OPERATE A HAZARDOUS MATERIALS SITE. LAW DOES NOT TREAT PETROLEUM PRODUCTS AS PROPERLY CONTAINED AND OPERATED AS HAZARDOUS MATERIAL. SUCH PRODUCTS DO NOT NEED A MSDS.

7. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO REMOVE THE KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE DCIC OF THE DISCOVERY. THE DCIC WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONSTRUCTION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.

8. ALL LAKES ON ALL ROADBEDS MUST BE OPEN TO TRAFFIC DURING AN EFFLUENT OUTAGE OF A NOTIFY ON OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.

9. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINSAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND THESE CATCHES WILL BE NECESSARY IN STABILIZING OPERATIONS AT THOSE LOCATIONS.

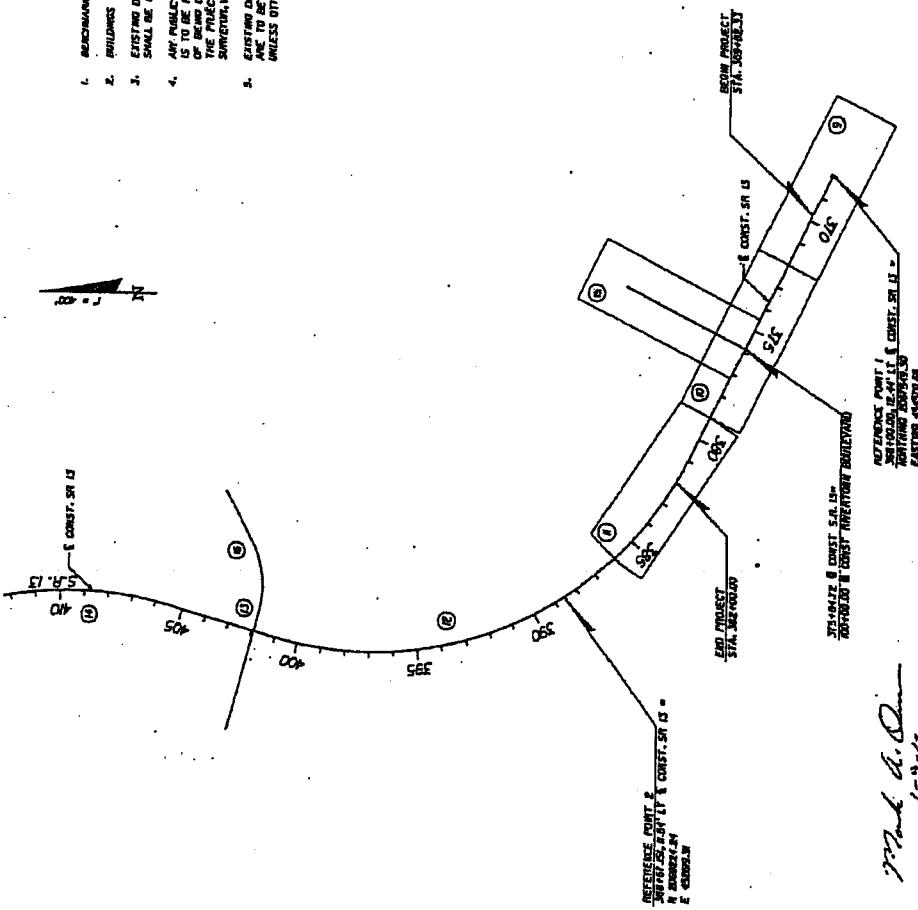
10. SOIL VARIETY SHOULD BE COMMON REFERENCE. TO AVOID TROPICAL SOIA APPLES CONTAMINATION, ALL SOIL SHOULD COME FROM SOURCES IN NORTH FLORIDA.

11. THE CONTRACTOR SHALL PREPARE A SIGNOFF AND MEMORANDUM AND ACCOMPANY THE "NOTICE OF INTENT TO GENERIC PERMIT" DOCUMENTATION.

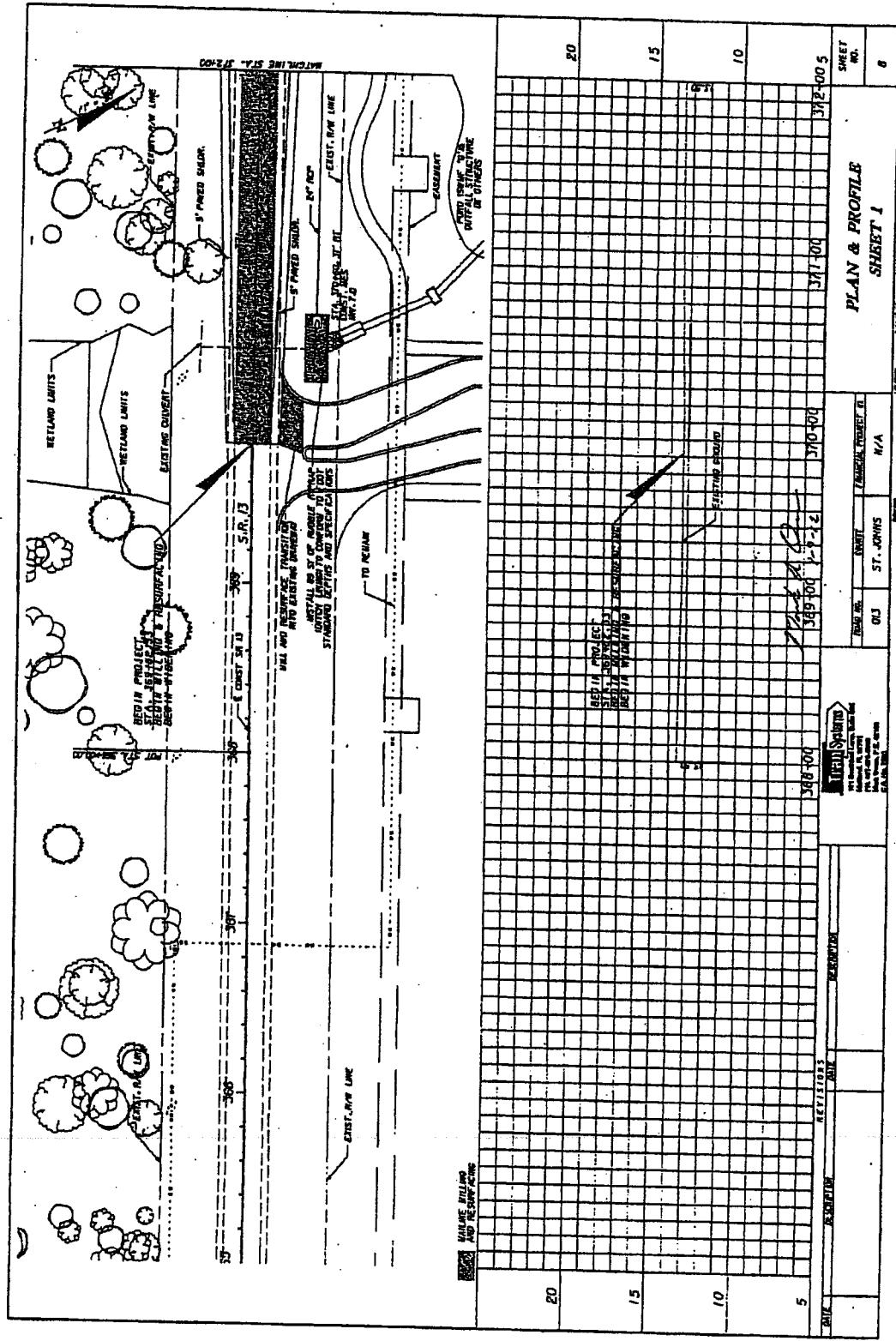
SHEET NO.	GENERAL NOTES	ITEM SYSTEM			
		REVISED	REVISION	DATE	REMARKS
				01/2	ST. JOHNS N/A

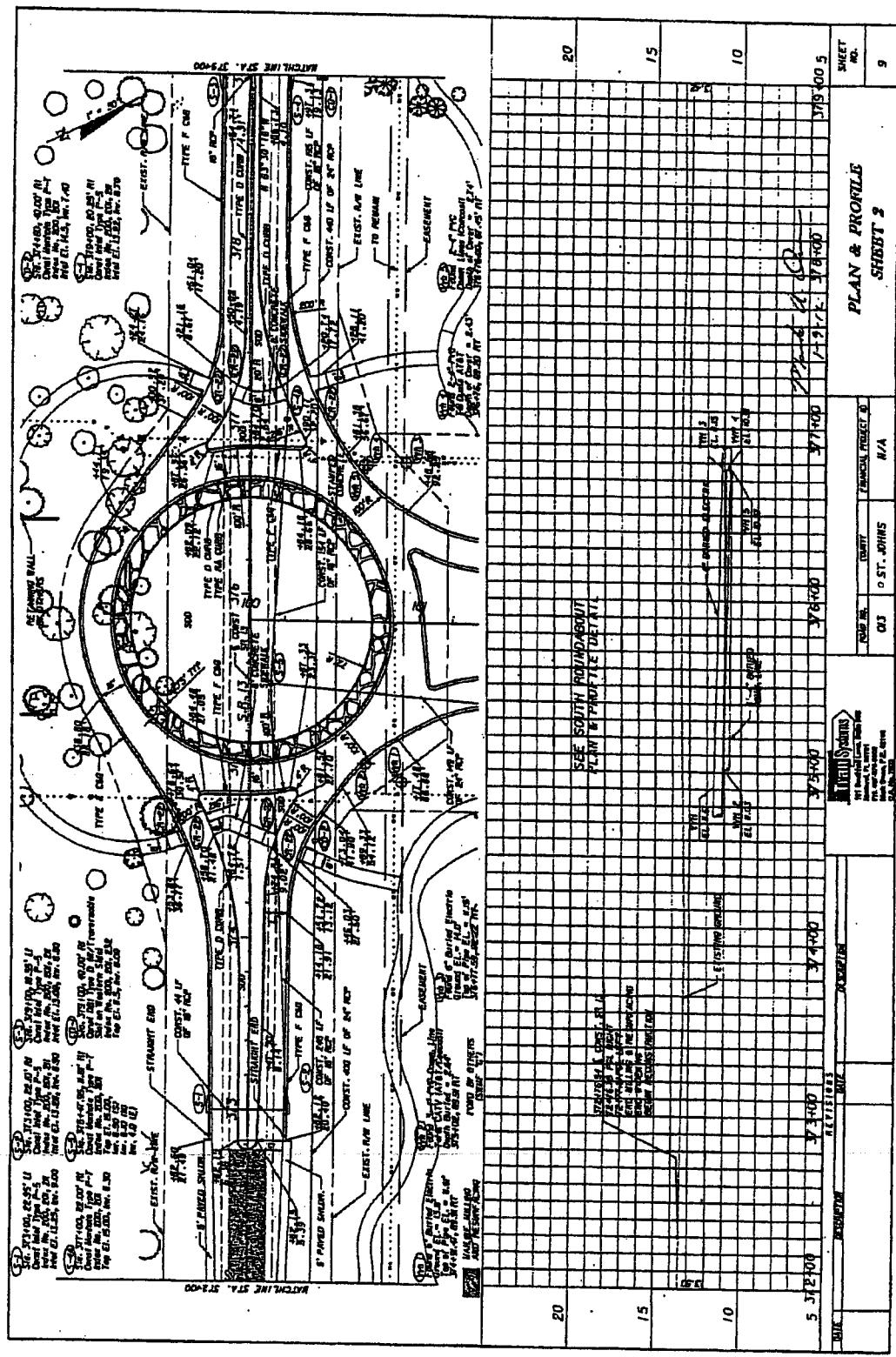
GENERAL NOTES

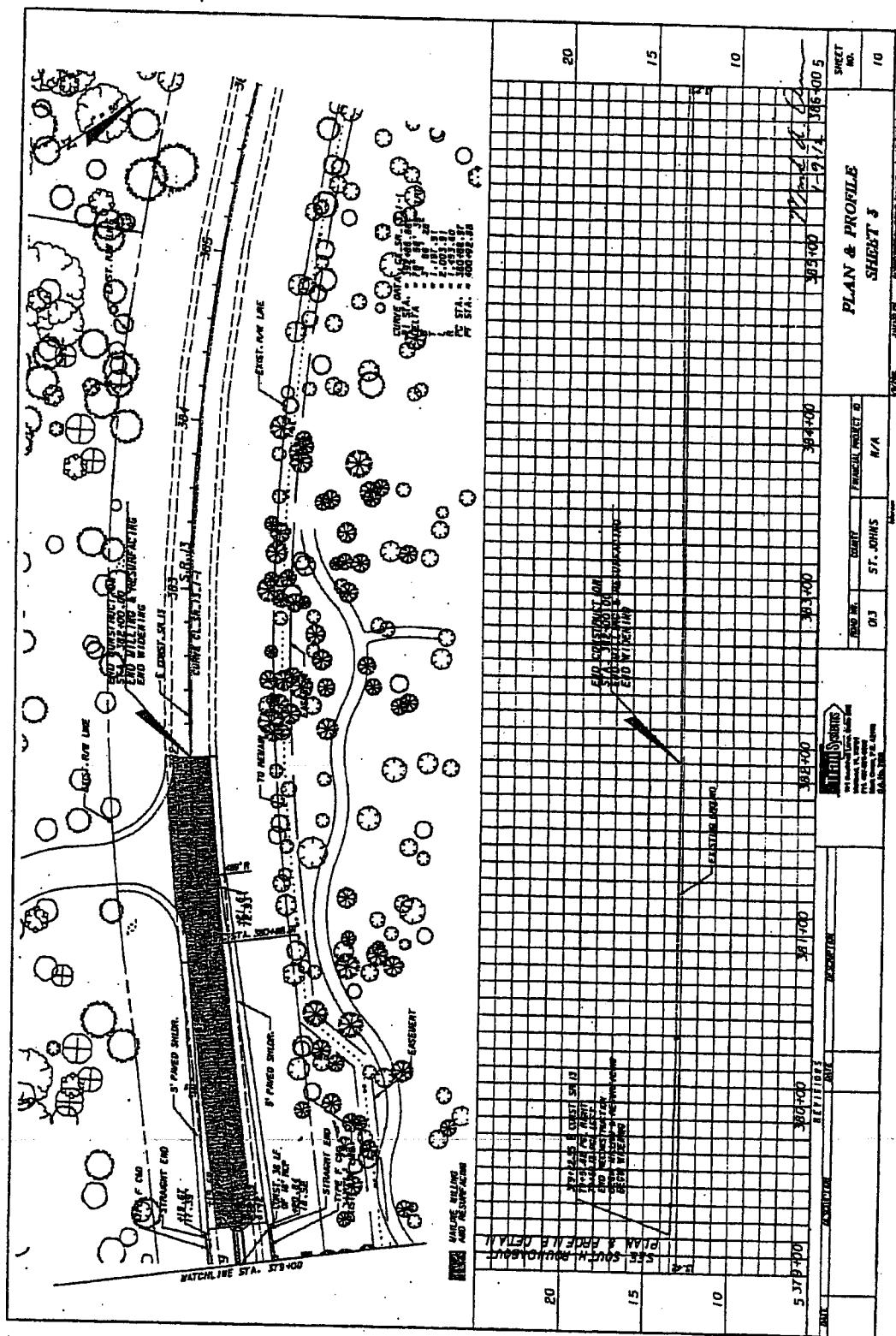
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2. BUILDINGS TO BE REMOVED OR OTHERS UNLESS OTHERWISE NOTED.
3. EXISTING INHABITANT STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
4. ANY PUBLIC LAND COVER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CONCRETE MOUNDMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROVIDED REFERENCE, THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SOMETIME, WITHOUT DELAY, BY TELEPHONE.
5. EXISTING CORDONERS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLICATED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.

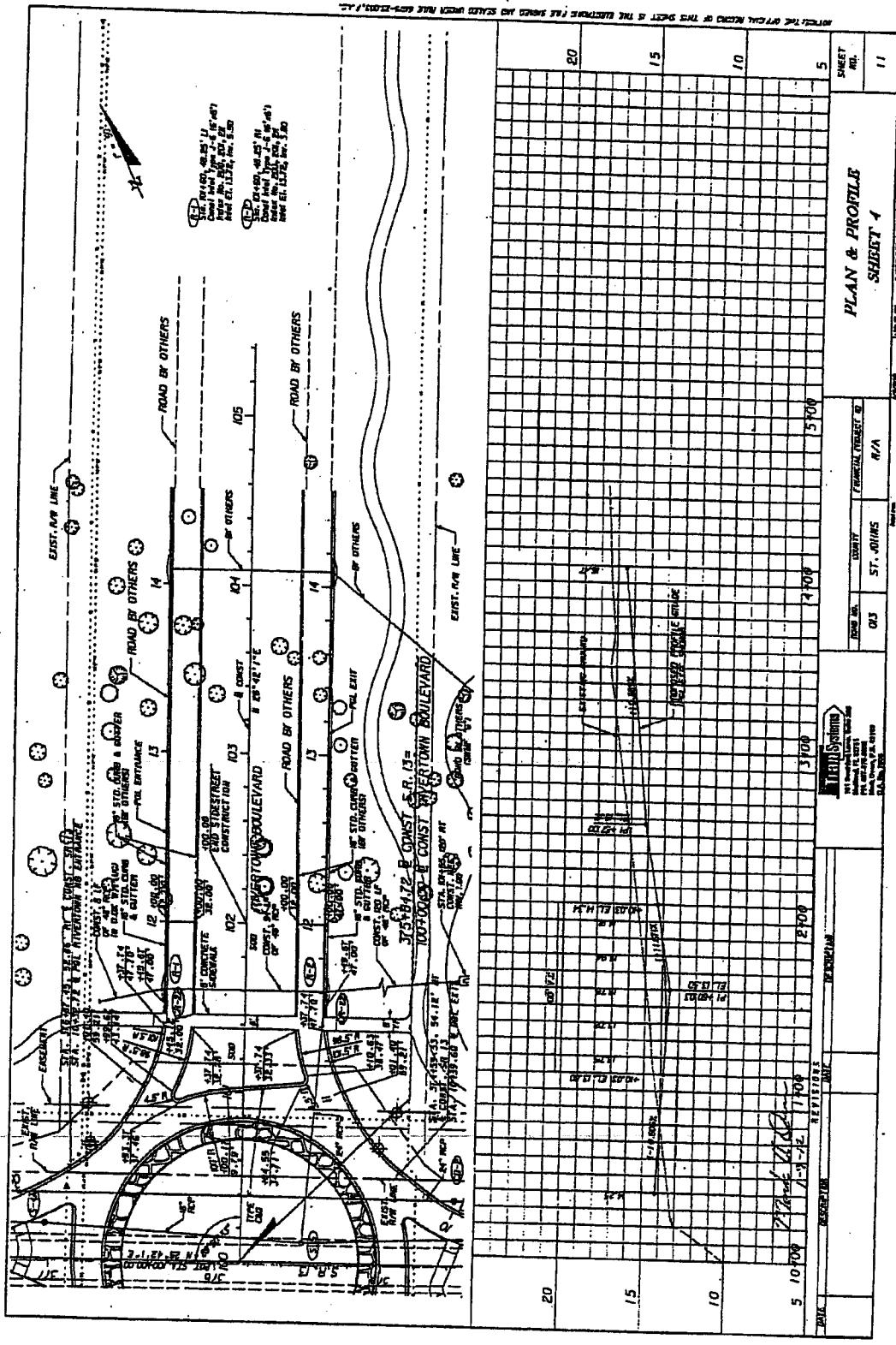


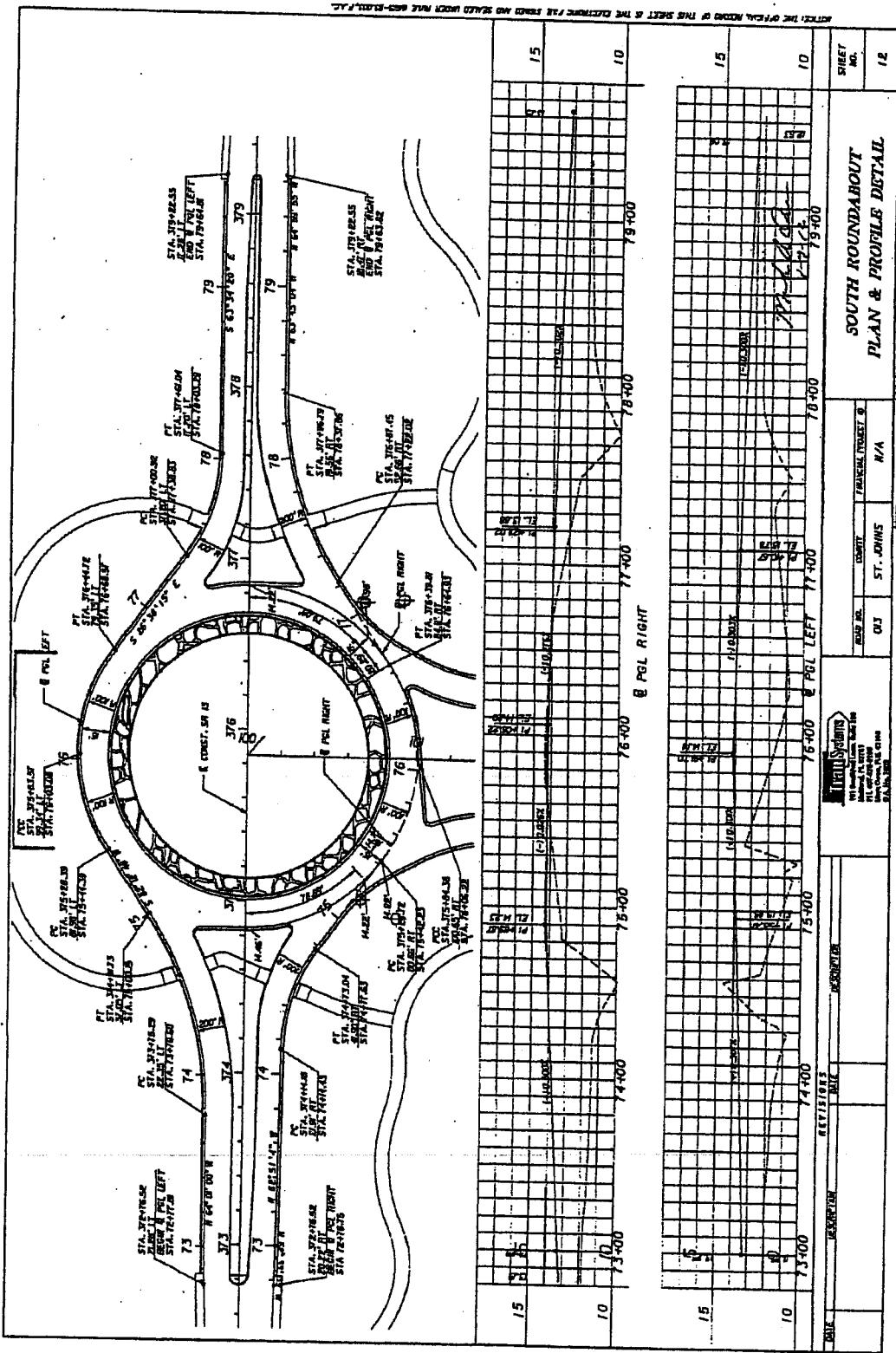
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REV. NO.	DATE	REVISION	APPROVAL	
				7











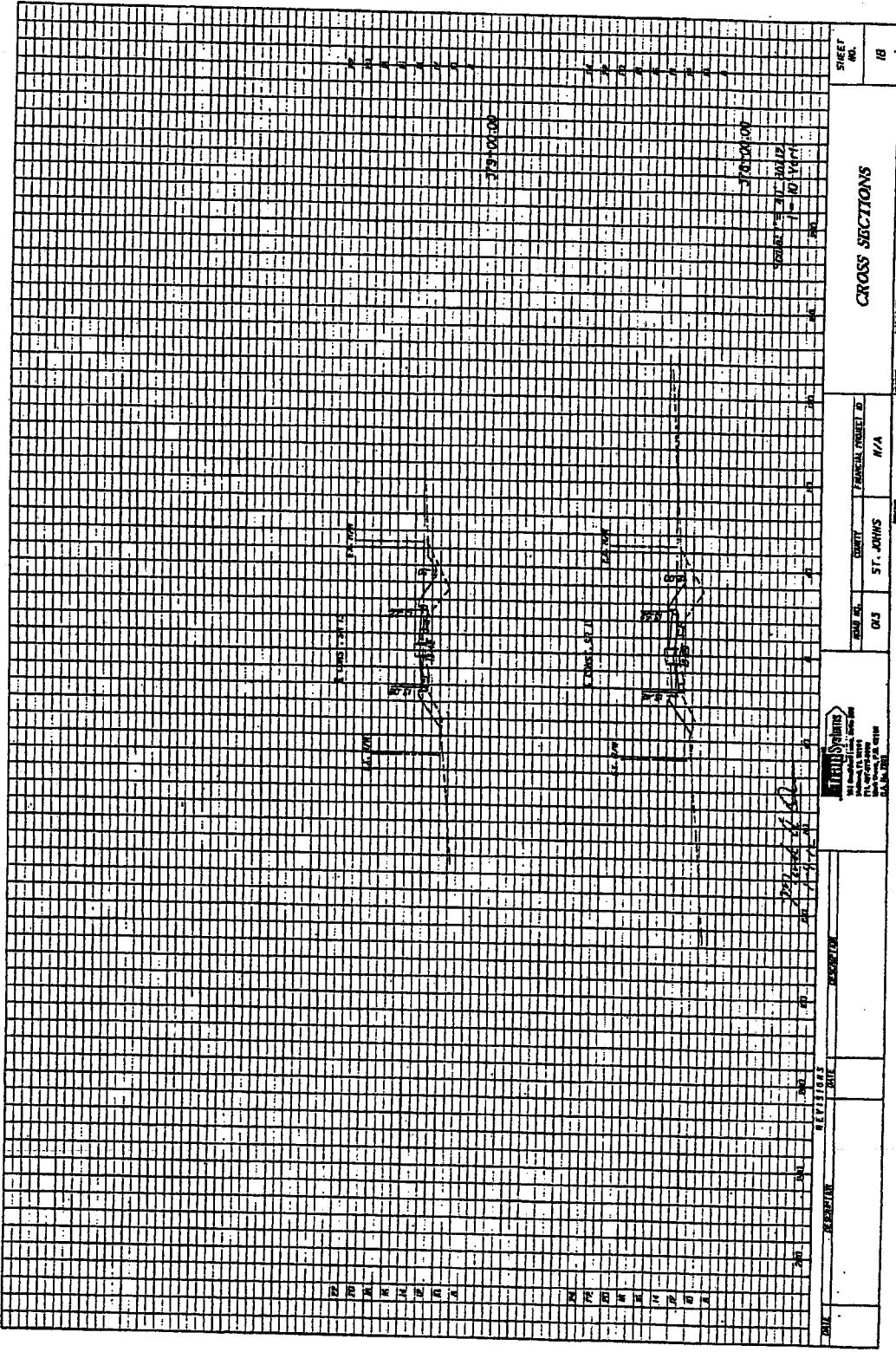
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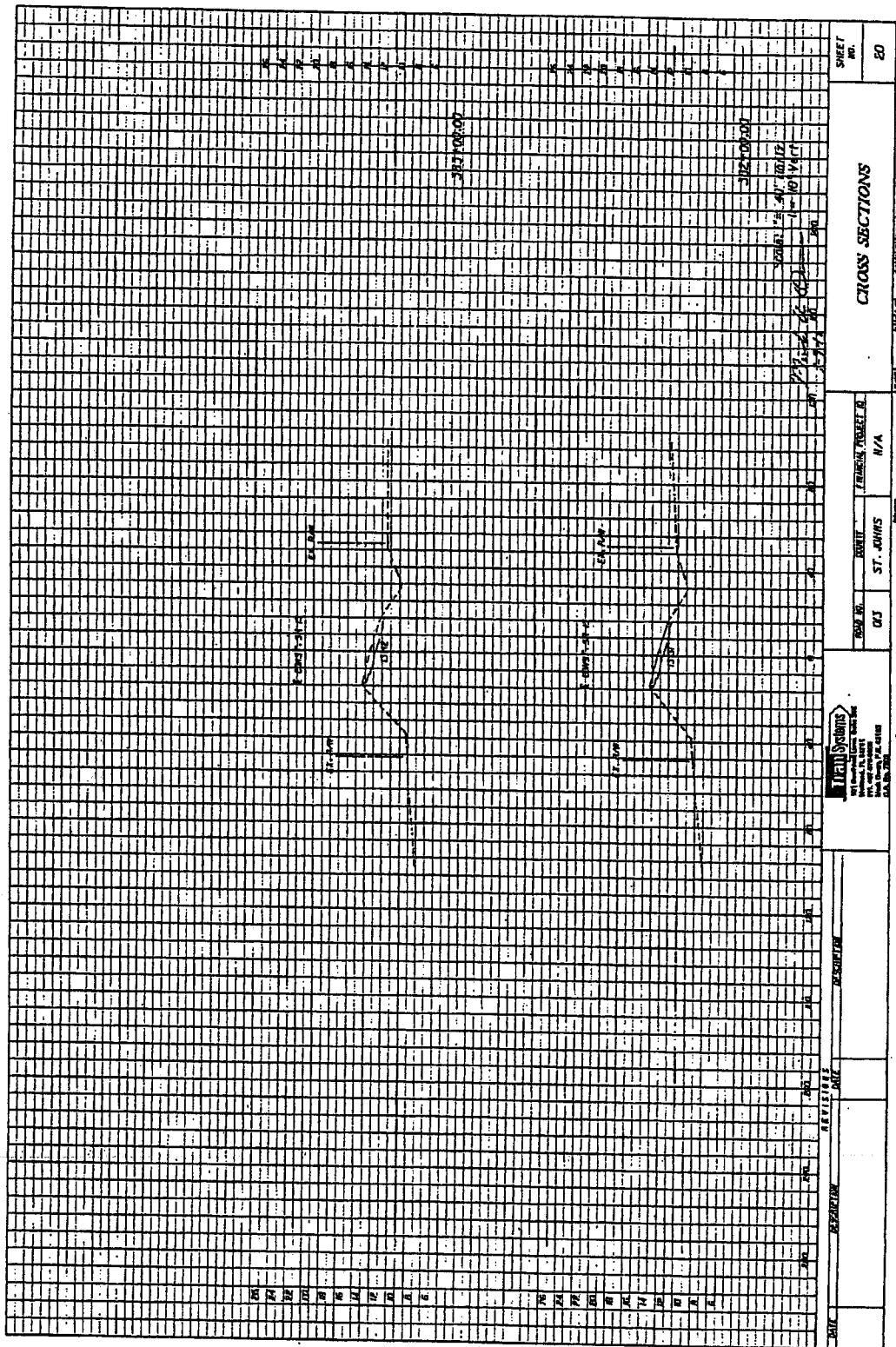
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SHEET NO.	CROSS SECTIONS			
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TRANSITIONS	TRANSITION	TRANSITION	TRANSITION	TRANSITION
REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
DATE	DATE	DATE	DATE	DATE
DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
INITIAL	INITIAL	INITIAL	INITIAL	INITIAL





1.0 SITE DESCRIPTION

1.0a Future of Construction Activity

The project involves the construction of 2 roundabout interchanges on the baseline of S.R. 13 as specified in the construction plans. The project involves a south round-about located approximately 3 miles north of the project on S.R. 13 and S.R. 86. The north round-about is located in the city limits of the town of St. Johns. The project is located in St. Johns County, Florida.

1.0b Sequence of Major Soil Disturbing Activities

In the Section 104 Erosion Control Plans, the Contractor shall provide detailed sequences of construction for all construction activities. The Contractor shall follow the sequence or order utilization described below unless the Contractor proposes different sequence that is agreed by the Engineer.

For each construction phase, the Contractor shall install/packshot materials after clearing and grubbing necessary for installation of controls but shall avoid disturbing other soil for the construction phase. Remove material cut from one area for another area site stabilize.

Phase I:

- Minimize traffic on existing pavement.
- Contractor vehicle utilization of S.R. 13 and existing sections of S.R. 86.
- Contractor temporary construction areas and driveway (1st-1st).
- Complete construction of utility facilities within work zone.
- Shallow traffic in temporary permanent/new construction areas completed.
- Complete drainage.
- Contractor personnel access.
- Contractor traffic courses on the EN and WD routes.

Phase II:

- Final permanent construction.

1.0c Area Estimates

Total area to be disturbed 6,753 acres.

1.0d Number of Details

Rainfall Certification for Impervious Areas C = 0.33

Rainfall Certification for Permeable Areas C = 0.28

Weighted Rainfall Certification Rainfall Certification CDF = 0.30
Rainfall Certification Rainfall Certification CDF = 0.30 N = 0.50
Filtering Construction Rainfall Certification CDF = 0.30 N = 0.40
Filtering Construction Rainfall Certification CDF = 0.40 N = 0.40

1.0e Site Details

SOIL TYPE	SOIL NAME	ATTORNEY'S GROUP			
		100%	20%	10%	5%
1	D	100	20	10	5
2	M	100	20	10	5
3	S	100	20	10	5
4	T	100	20	10	5
5	DB	100	20	10	5
6	DR	100	20	10	5
7	SL	100	20	10	5

1.0f On-Site Traffic

There are two (2) traffic areas on the project. No controls are being altered during the project and is deducted into the following activities.

1.0g Critical Information
There are two (2) traffic areas on the project. No controls are being altered during the project and is deducted into the following activities.

EN: CSC - A South Name - South Latitude: 30°30'15" E: CSC - A North Name - North Latitude: 30°30'15"

1.0h Site Map

The construction phases are being used as the site map. The location of the new construction areas are described below. The exact location of these areas shall be identified on the Top Sheet of these construction plans.

- Drainage Pattern: The drainage basin delineation and flow directions are indicated on the Drainage Basin Plan.
- Soil Survey: The soil types to be disturbed are indicated on the Top Sheet.
- Site Identification: The site identification is indicated on the Top Sheet.
- Areas Of Soil Disruption: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Construction Site: The areas to be disturbed are indicated on the Top Sheet.
- Landfill: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.
- Stormwater Control: The areas to be disturbed are indicated on the Top Sheet.

Permanent stabilization is shown on the Top Sheet.

Temporary stabilization is shown on the Top Sheet.

Construction activities are shown on the Top Sheet.

Surface Waters: This project drains to the St. Johns River, surface water discharge points to Surface Water Discharge points are shown on the Plan Sheets.

Receiving Waterways: See item 1.F for the outlet locations and receiving water names.

Soil Items: See item 1.F for the outlet locations and receiving water names.

CORRIDORS: See item 1.F for the outlet locations and receiving water names.

Erosion And Sediment Controls: In the Section 104 Erosion Control Plans, the Contractor shall describe the erosion and sediment control measures proposed to control erosion. The Contractor shall identify measures to reduce the amount of sediment or particulate matter in the water. In no case shall the contractor allow more than 5% of the total suspended sediment to be released into the receiving waterways at any time.

Structural Protection: In the Section 104 Erosion Control Plans, the Contractor shall describe the structural protection measures proposed to control erosion. The Contractor shall describe measures to prevent landslides or collapse of embankments or cut slopes, and to prevent or mitigate damage to structures or equipment, and to reduce the amount of sediment or particulate matter in the water. In no case shall the contractor allow more than 5% of the total suspended sediment to be released into the receiving waterways at any time.

Artificial coverings in accordance with FDOT Specification Section 104.

Temperature: See item 1.E for the outlet locations and receiving water names.

Permeability: See item 1.E for the outlet locations and receiving water names.

Soil In accordance with Specification Section 873.

Structural Protection: See item 1.B for the outlet locations and receiving water names.

Geological Patterns: In Section 104 Erosion Control Plans, the Contractor shall describe the geological patterns to control erosion. The Contractor shall identify areas where bedrock may be exposed, and areas where the soil or bedrock is subject to scouring, and to reduce the amount of sediment or particulate matter in the water. In no case shall the contractor allow more than 5% of the total suspended sediment to be released into the receiving waterways at any time.

Temperature: See item 1.E for the outlet locations and receiving water names.

Filtering Turbidity barrier: In accordance with Design Standard 102 and Specification Section 104.

Sediment In control areas and trap sites: See item 1.E for the outlet locations and receiving water names.

Inter-protection in accordance with Design Standard 102.

Permeability

Soil,

Stormwater Management

The proposed stormwater management facilities will be permitted by the St. Johns River Management District.

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 21

Version 10-10-12

Date: 04/20/2012

2.e Other Controls

2.e.d Waste Disposal

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods to prevent the discharge of waste materials, including surface materials or wastes of the United States, the Proposed railroad and/or include at least the following quality standards approved by the Contractor:

- Preventing litter control and collection within the project during construction activities.
- Disposing of solid fertilizer or other chemical controls according to EPA's standard practices dictated by the manufacturer.
- Disposing of solid materials including building and construction materials off the project site and not in surface waters or wetlands.

2.e.e Off-Site Vehicle Tracking & Over Controls

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods for minimizing offsite vehicle tracking activities and preventing dust. The proposed measures shall include the following:

- Covering loaded haul trucks with tarps.
- Reusing excess dirt from paved areas daily.
- Using 'ready-to-go' supplies during dust generating activities such as excavation and filling operations.

2.e.f Solid and Liquid Impoundings for Waste Disposal, Sanitary Sewer, Or Septic Tank Requirements

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed procedure to employ with applicable state and local requirements for waste disposal, and sanitary sewer or septic systems.

2.e.g Fertilizers and Pesticides

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods for applying fertilizers and pesticides. The proposed methods shall include the following:

- Approved State and Local Plans and Permits

2.e.h Fertilizer and Pesticide

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed methods for applying fertilizers and pesticides. The proposed methods shall include the following:

- Approved State and Local Plans and Permits

3.0 MAINTENANCE

In the Section 104 Erosion Control Plan, the Contractor shall provide a plan for maintaining the Erosion Control Plan. The plan and schedule of maintenance shall include the following:

- Preventive maintenance of erosion control structures.
- Maintenance plans shall be submitted, annually with the following:
- Site visits
- Maintenance per Section 104. The Contractor shall conduct periodic inspections regarding all items as listed below.

4.0 Stormwater Pollution Prevention

In the Section 104 Erosion Control Plan, the Contractor shall describe the following items of local concern every seven seconds for a 0.25 minute or greater. To describe the Contractor's stormwater barrier or flow control measures to prevent diversion of the existing structures.

4.1 RESPECTS

Identified personnel shall inspect the collecting items of local concern every seven seconds for a 0.25 minute or greater. To describe the Contractor's stormwater barrier or flow control measures to prevent diversion of the existing structures.

4.2 DISCHARGES

Discharged areas of the site that have not been stabilized within 7 days, shall be covered and stabilized.

4.3 AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

Areas used for storage of materials that are exposed to precipitation.

4.4 STREAMBED MEASURES.

Streambed management systems.

4.5 LEVEE WHERE VEHICLE CROSS OR EXIT THE SITE.

The Contractor shall utilize routes within 10 hours of impoundments that indicate that there are no flood washing effects.

If impoundments indicate that the impound stabilization and structures present are not sufficient to minimize erosion, rain runoff, and infiltration, the Contractor shall provide additional measures to support the impound structures.

5.0 NON-STORMWATER DISCHARGES

In the Section 104 Erosion Control Plan, the Contractor shall identify all non-stormwater discharges that occur during the construction period and shall implement best management practices to prevent pollution of these non-stormwater discharges.

5.1 OVER CONTROL

The Contractor shall develop in Section 104 Erosion Control Plan a dual control plan and preventive action to control over suffocating measures.

5.2 ENHANCED WASHDOWN

The Contractor shall develop in Section 104 Erosion Control Plan an effective plan to control enhanced washdown activities to prevent pollution of these non-stormwater discharges.

5.3 HAZARDOUS MATERIAL SPILLS

The Contractor shall develop in Section 104 Erosion Control Plan an effective plan for spills in the event new hazardous materials should spill and remedial action to control any contamination measure.

5.4 OTHER CONTROLS

In the Section 104 Erosion Control Plan, the Contractor shall implement any additional controls to prevent any unauthorized measure.

5.5 STORMWATER POLLUTION PREVENTION PLAN

Stormwater Pollution Prevention Plan.

5.6 SHEET NO.

Sheet 1 of 2

5.7 DATE

10/10/08

5.8 APPROVED BY

Johns

5.9 APPROVED DATE

10/10/08

5.10 APPROVED BY

Johns

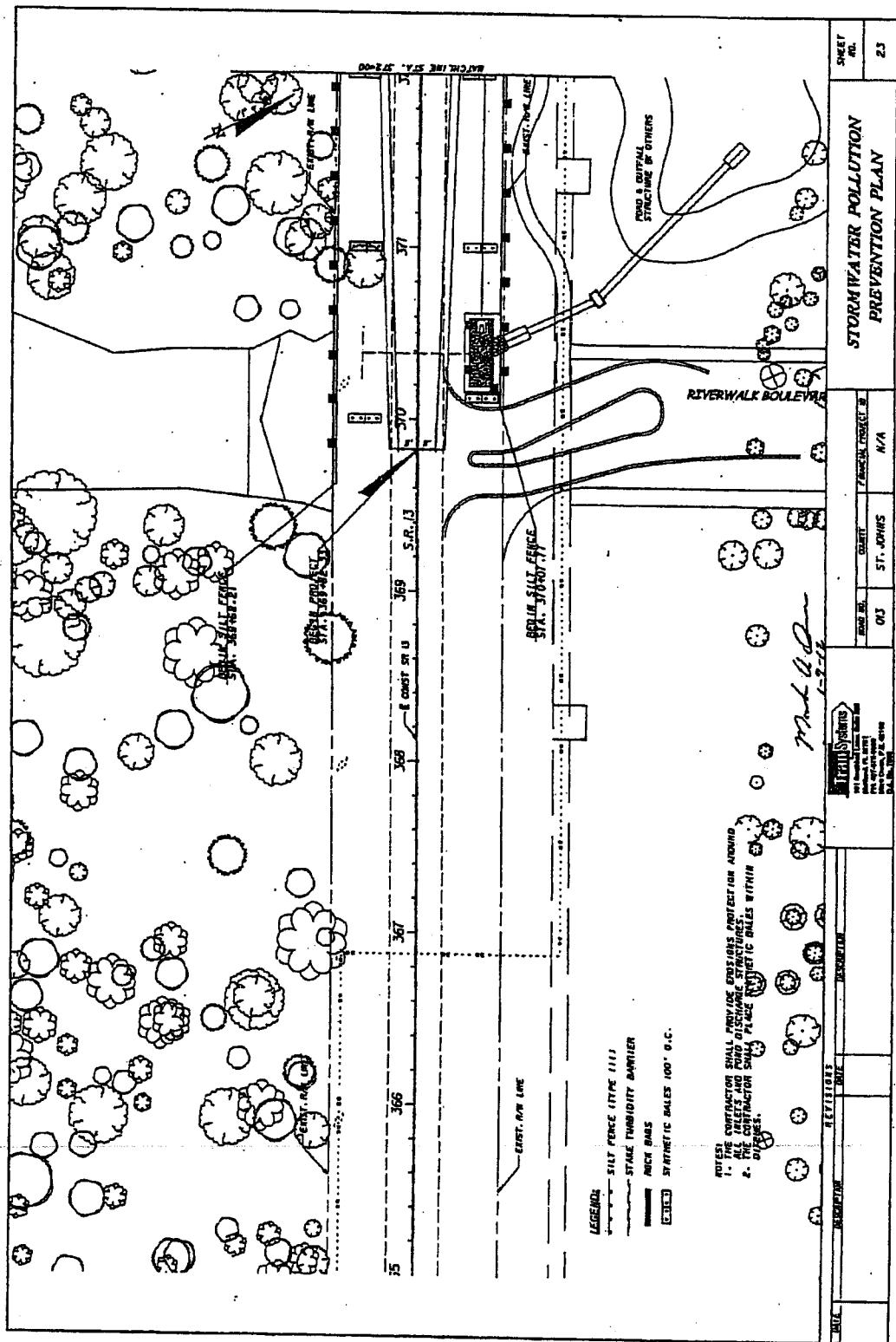
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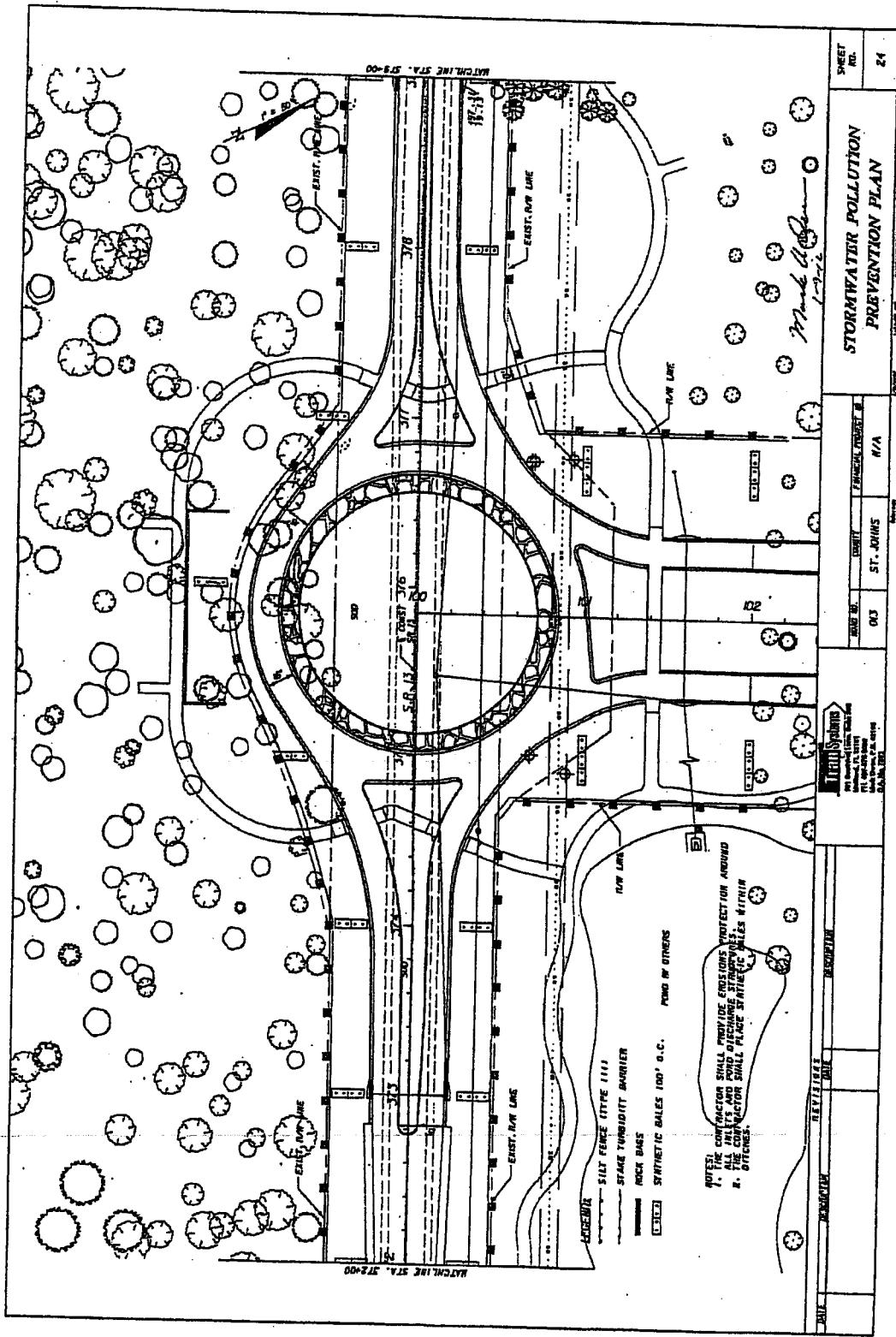
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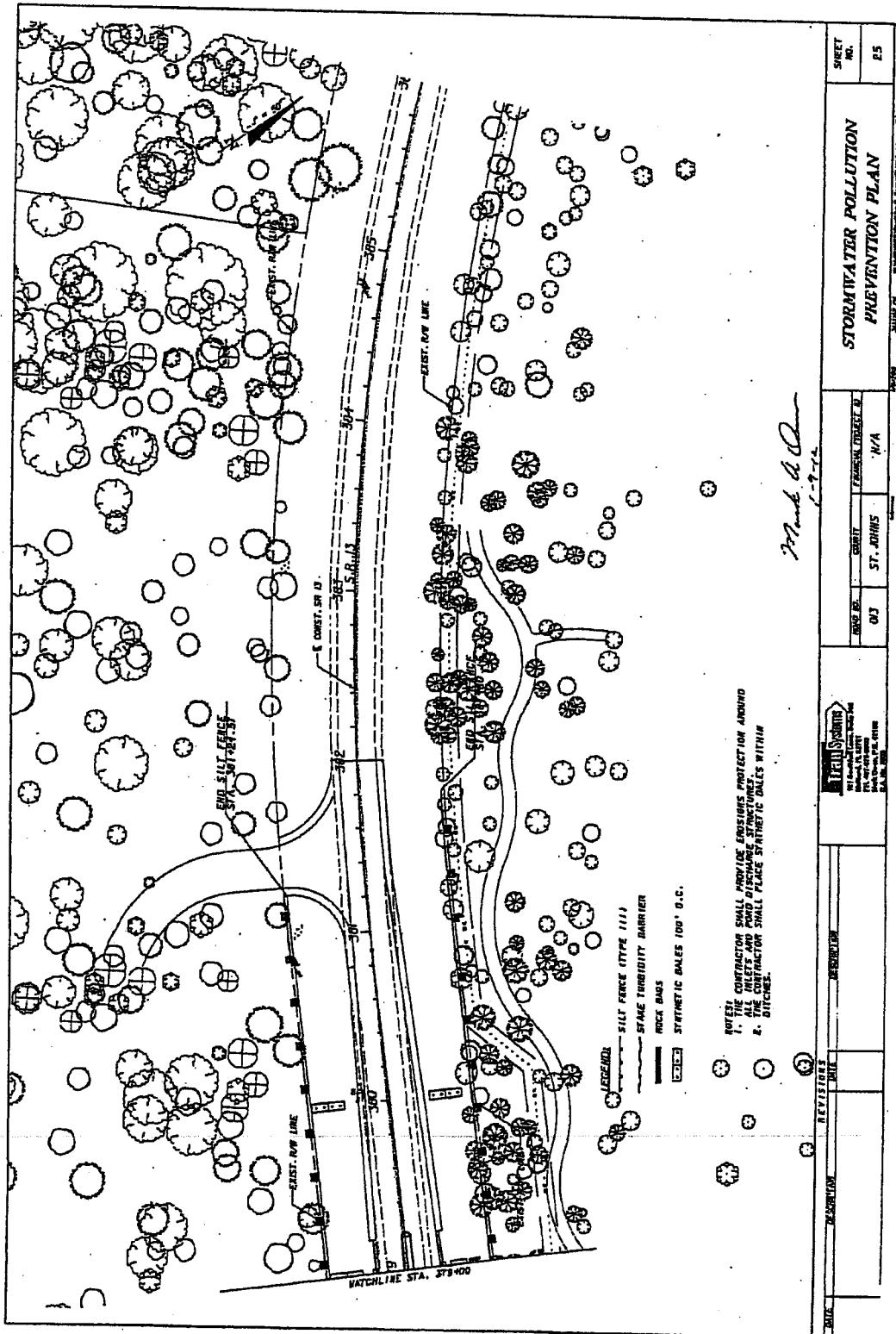
DATE	REVISION	REVISED BY	APPROVED BY	APPROVED DATE
			ST. JOHNS	10/10/08

SHEET NO.	STORMWATER POLLUTION PREVENTION PLAN
1 of 2	10/10/08

Johns A. O.







GENERAL NOTES

1. ALL LEAD-IN AND SLOWING PENS INDICATED AND AS SHOWN IN TRAFFIC CONTROL PLANS.

STAGE 1A CONSTRUCTION

SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. MANTAIN TRAFFIC ON EXISTING PAVEMENT. DIRECT MOTORISED AND BIKE TRAFFIC TO OFF-ROUTE WORK ZONE. SOUTHWARD BIKE TRAFFIC MANTAINED ACCORDING TO EXISTING CONDITIONS. CONTRACTOR DUTIES: PREPARATION OF SURFACING OF SURFACE OF SR 13 INCLUDING THROUGH THE RUMBLE STRIPS. PREPARATION OF SURFACE OF SR 13 INCLUDING APPLICATION OF TEAR-OFF PAVEMENT AS INDICATED IN STAGE 1A PLANS.

STAGE 1B CONSTRUCTION

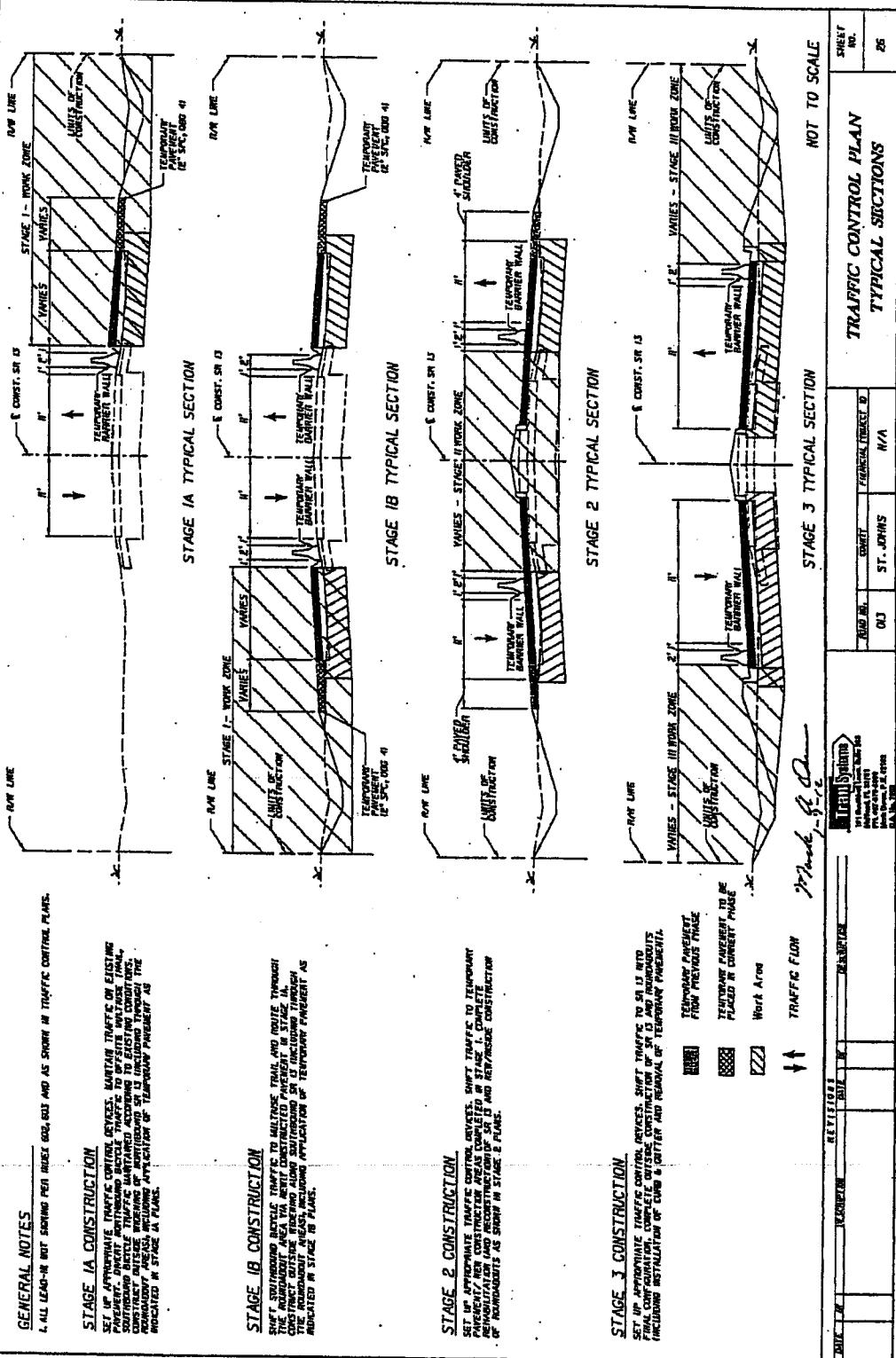
SLOW, SHIFTED, AND RELOCATE TRAFFIC TO MULTIPLE TRAIL AND ROUTE THROUGH CONTRACTOR'S WORK AREA. CONTRACTOR TO REMOVE EXISTING SURFACE OF SR 13 AND REINFORCEMENT OF RUMBLE STRIPS ALONG SURFACE OF SR 13. CONTRACTOR TO REMOVE EXISTING SURFACE OF SR 13 AND REINFORCEMENT OF RUMBLE STRIPS AS INDICATED IN STAGE 1B PLANS.

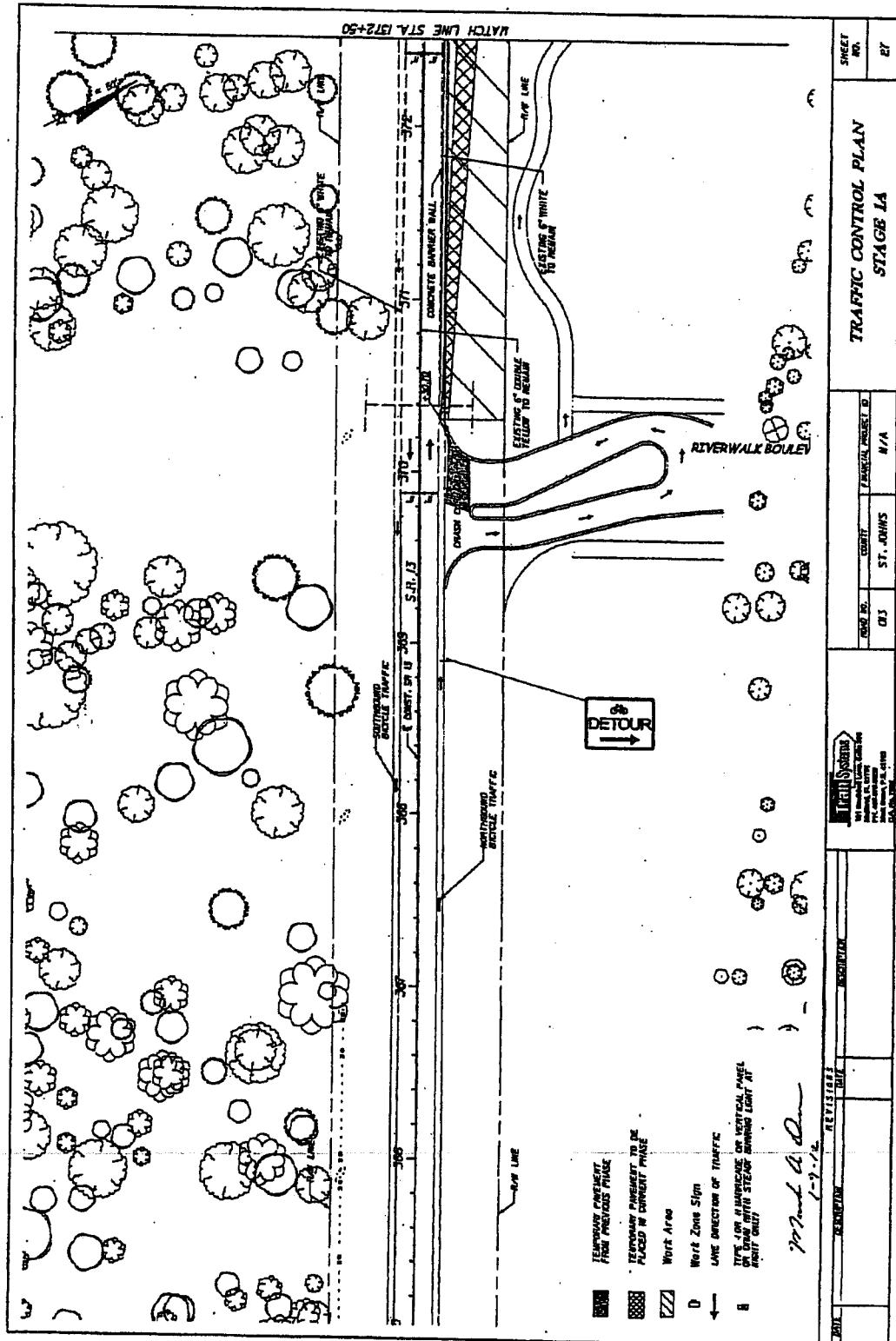
STAGE 2 CONSTRUCTION

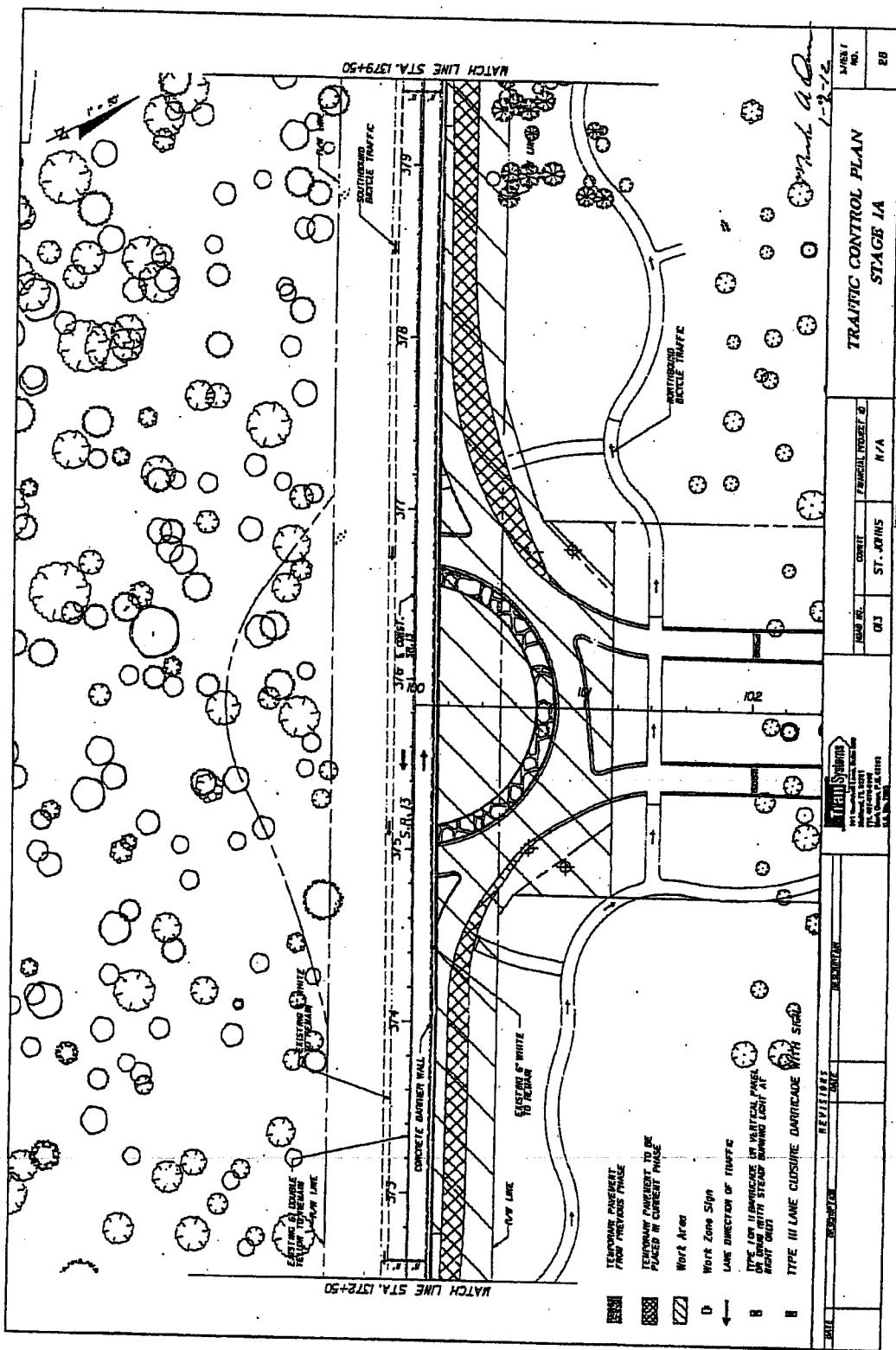
SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC TO TEMPORARY PAVEMENT. NEW CONSTRUCTION AREAS COMPLETED IN STAGE 1, COMPLETE REINFORCATION AND RECONSTRUCTION OF SR 13 AND REINFORCEMENT OF RUMBLE STRIPS AS SHOWN IN STAGE 2 PLANS.

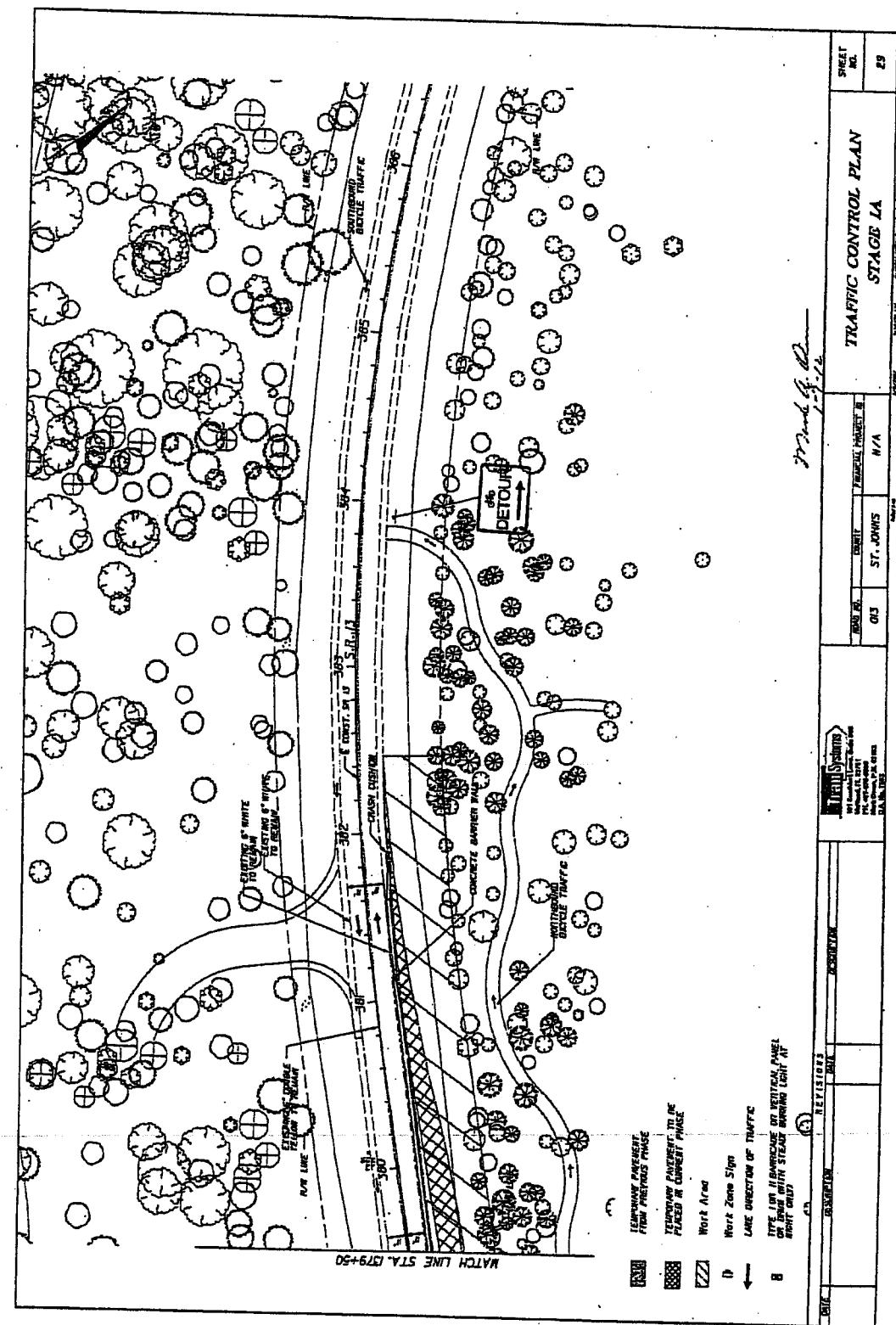
STAGE 3 CONSTRUCTION

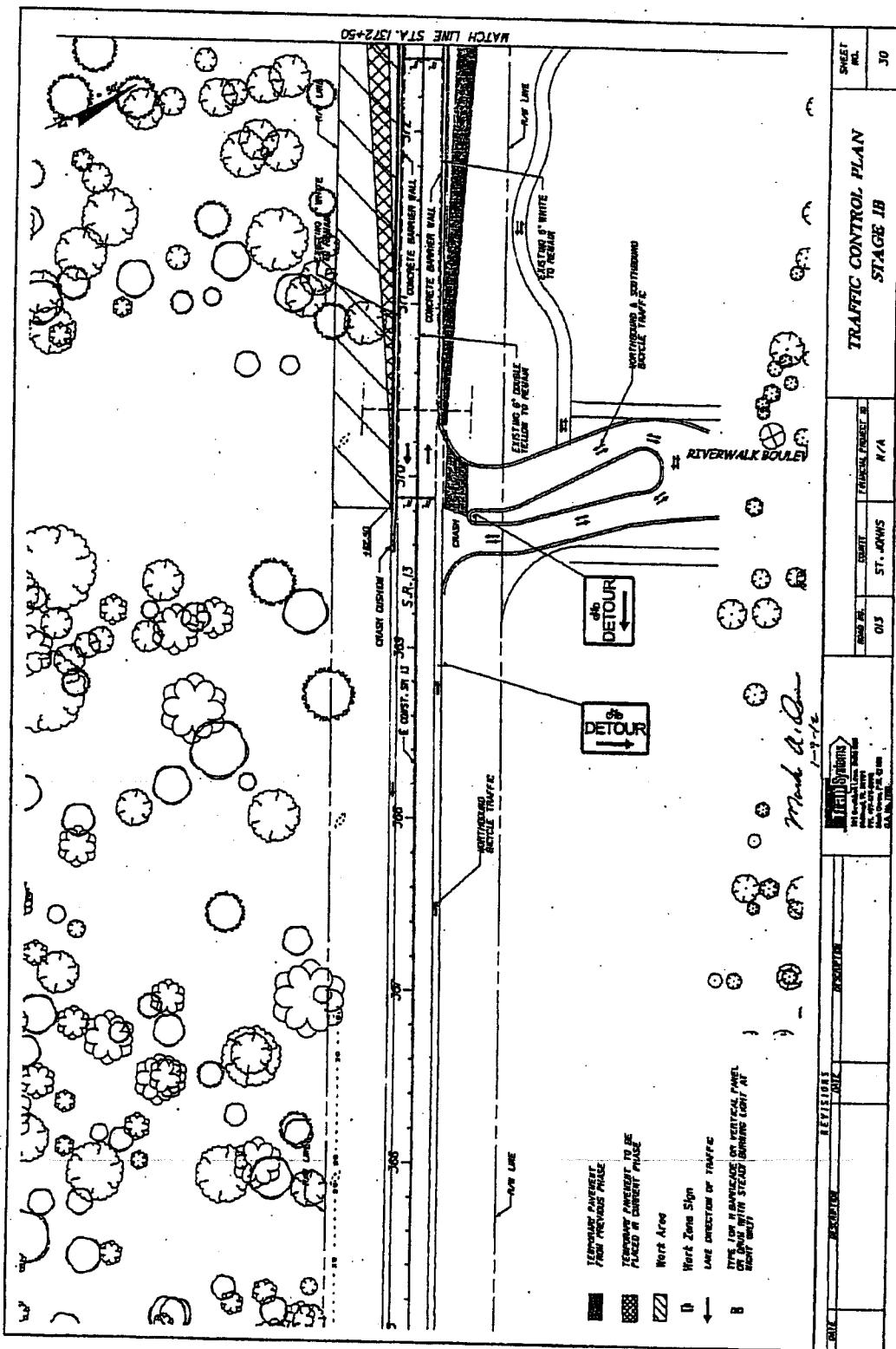
SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC TO SR 13 INTO FINAL CONSTRUCTION. COMPLETE OUTSIDE CONSTRUCTION OF SR 13 AND REINFORCEMENT OF RUMBLE STRIPS AS SHOWN IN STAGE 3 PLANS.

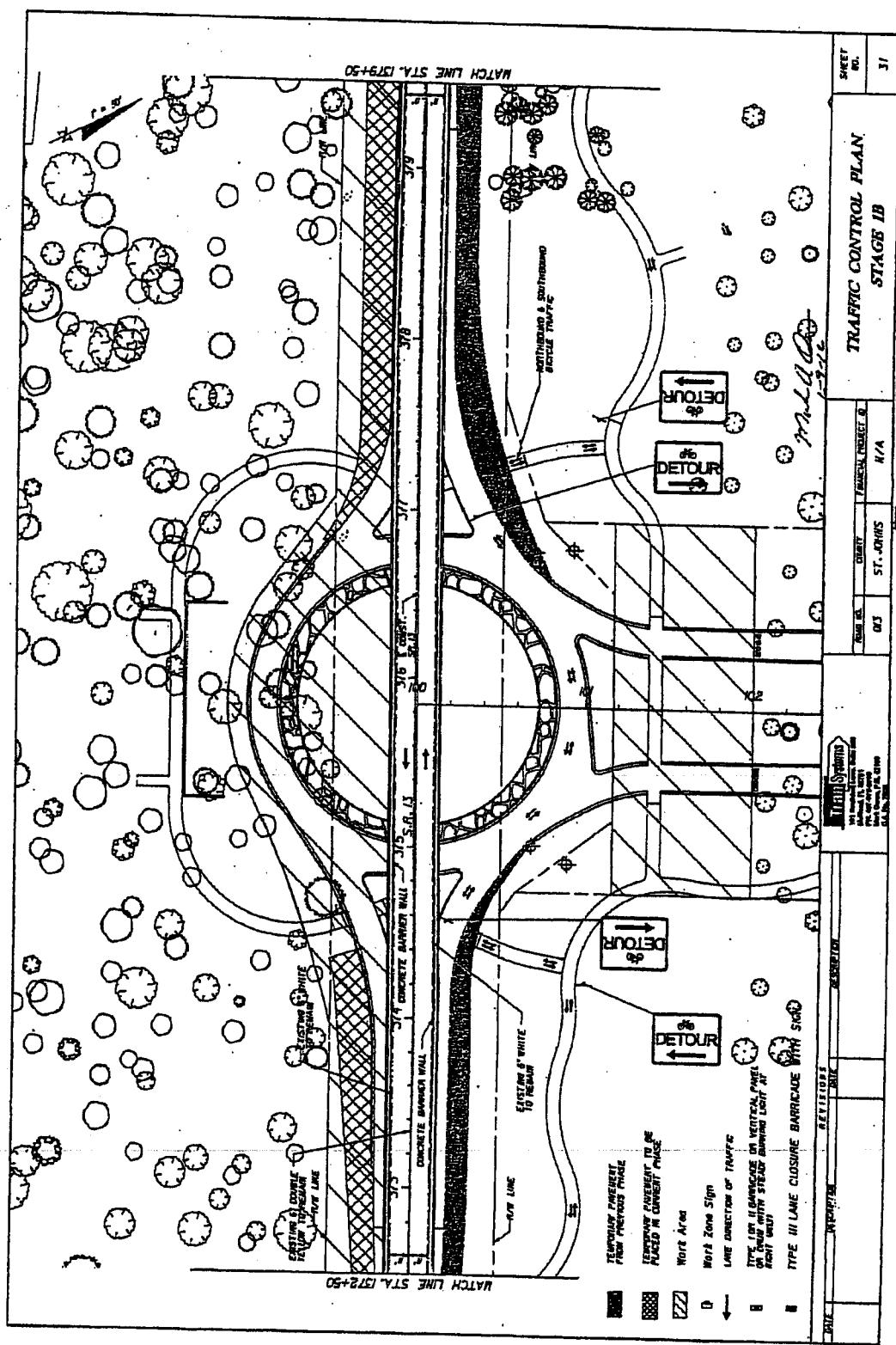


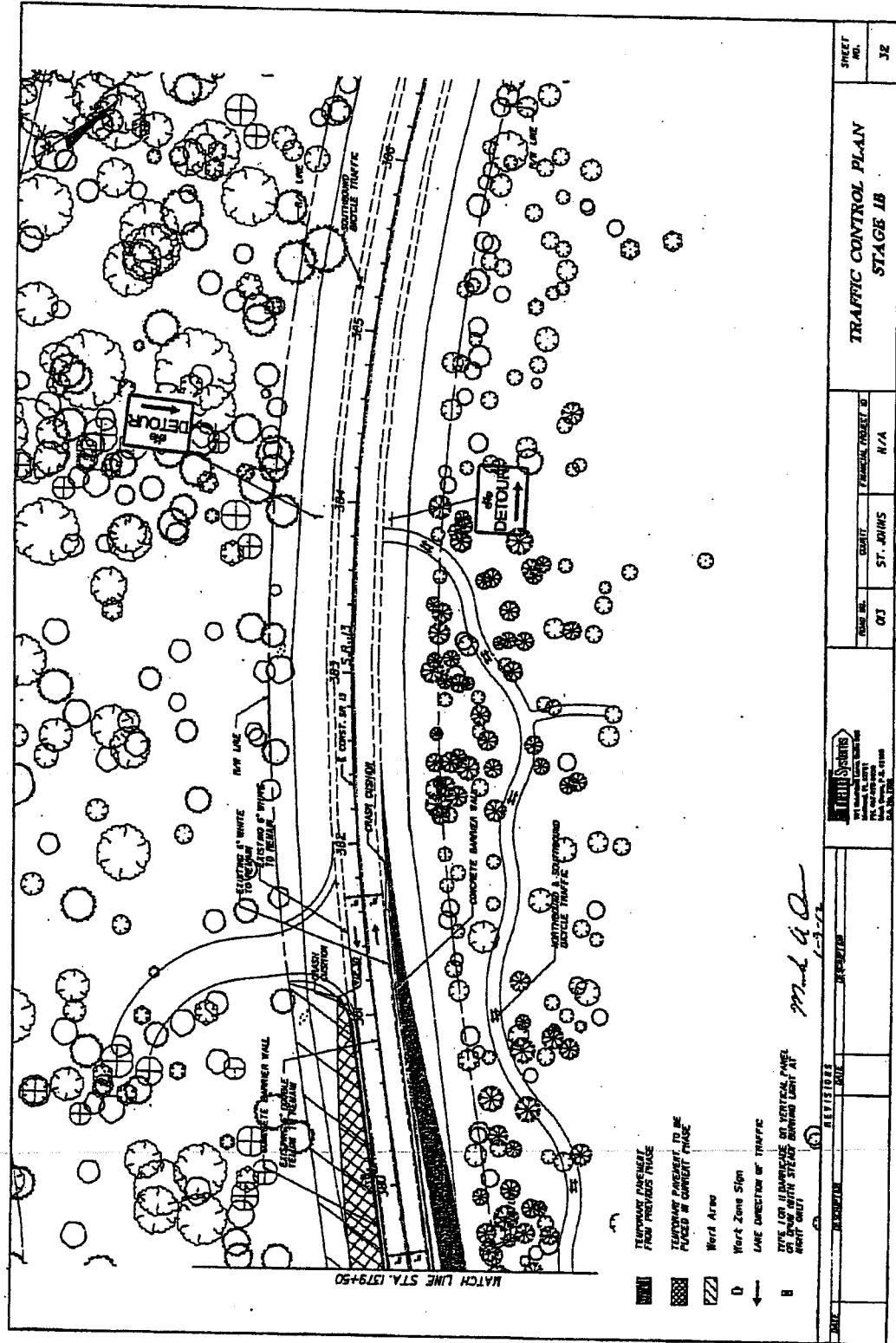


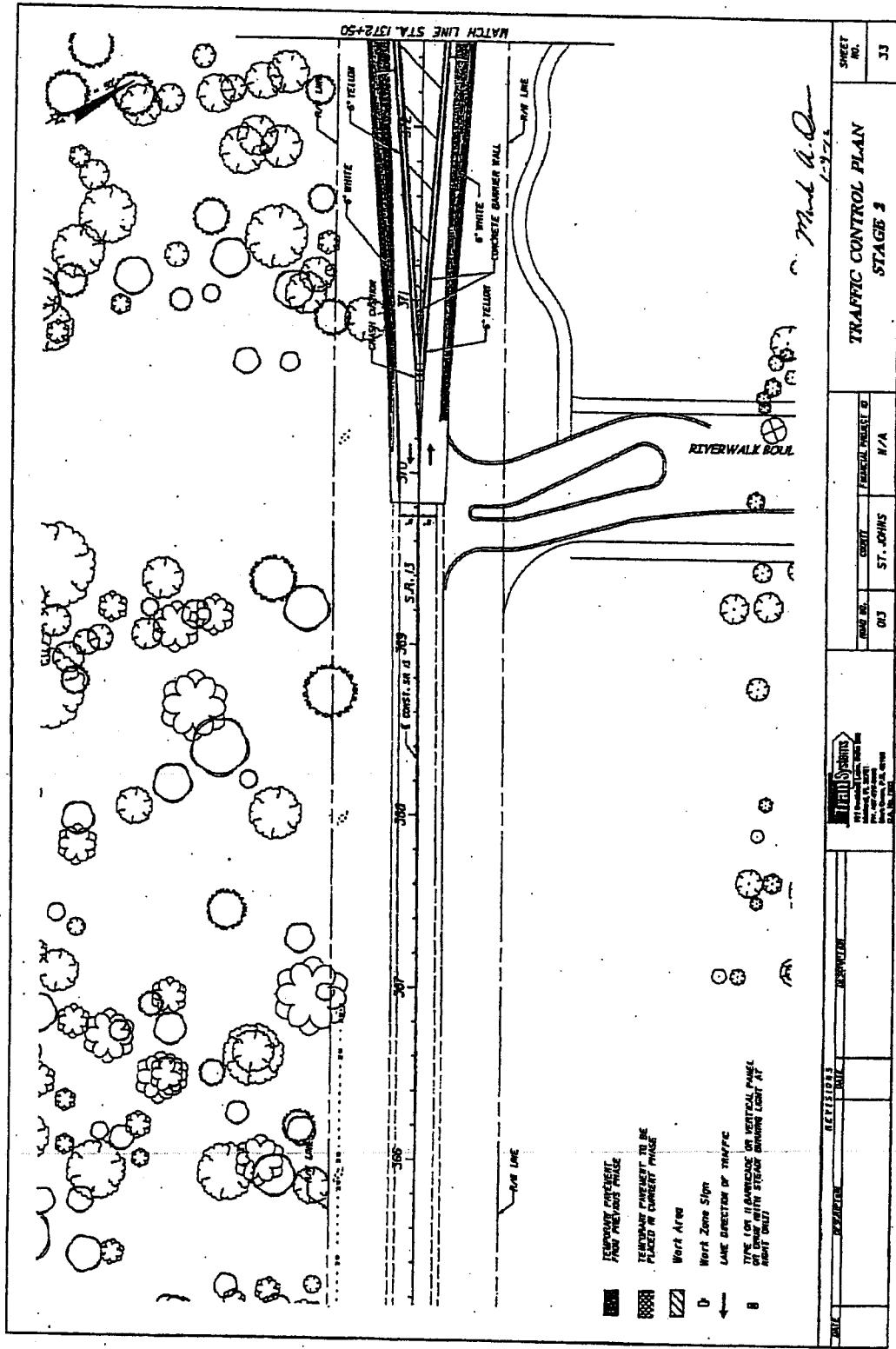


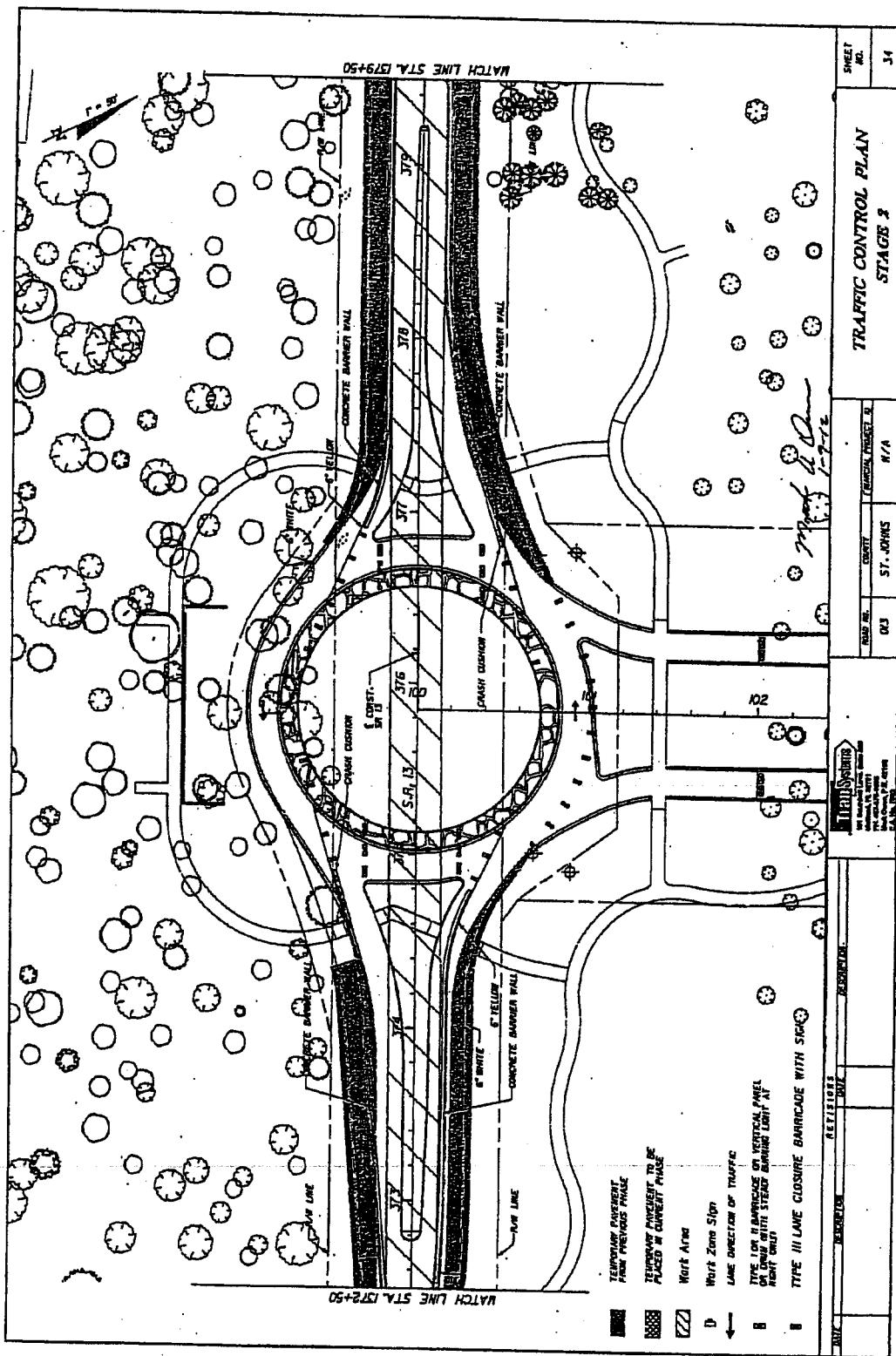


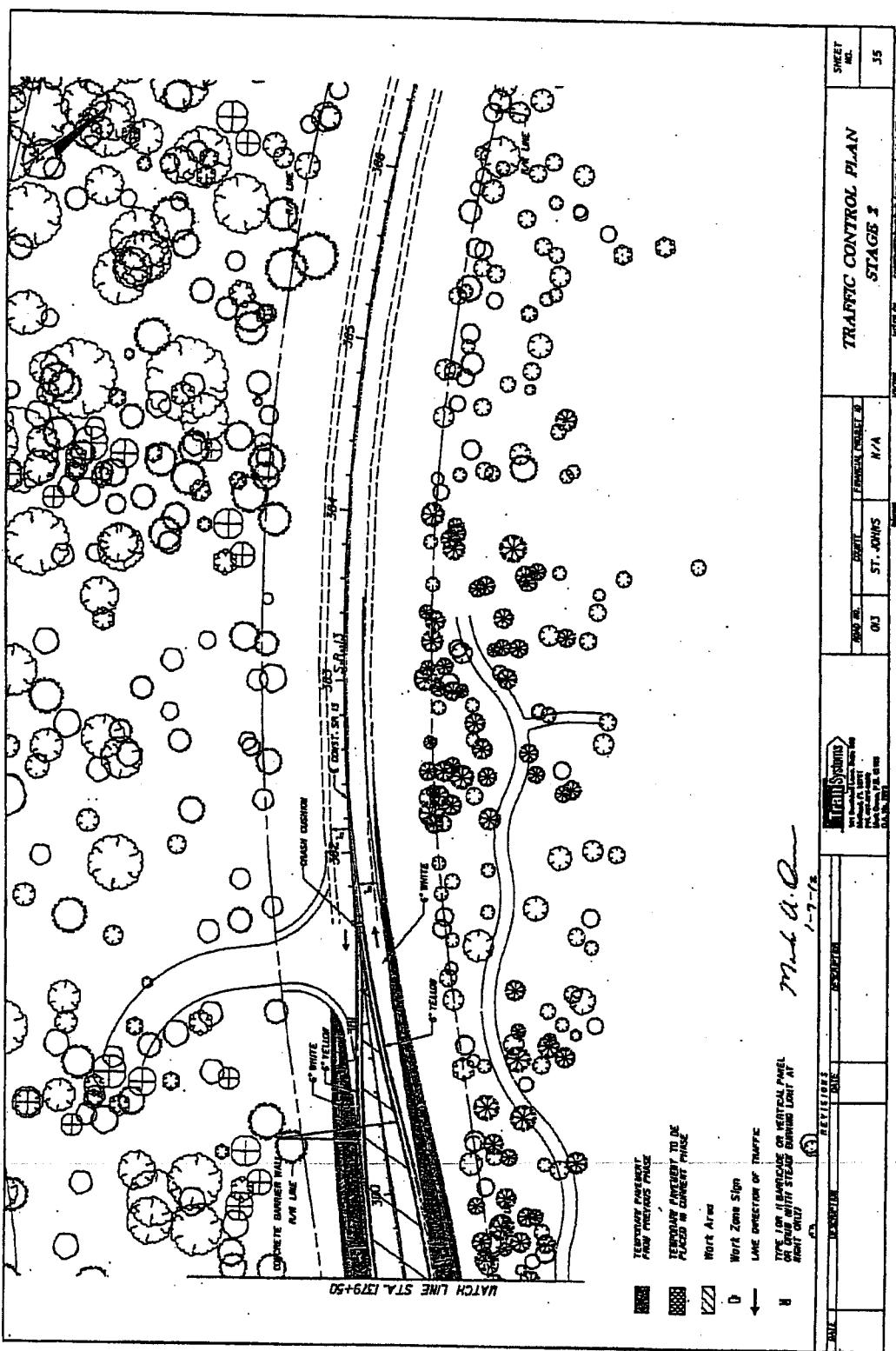






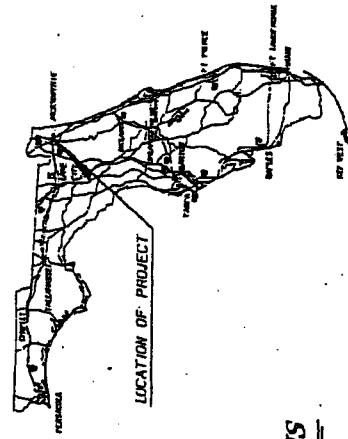






CONTRACT PLANS

ST. JOHNS COUNTY (78070)
STATE ROAD NO. 13



SIGNING AND PAVEMENT MARKING PLANS

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	STREET SIGNS
S-2	STREET SIGNS AND PAVEMENT MARKING PLANS
I-2	GRADE SURVEYS

PLANS PREPARED BY
DRAFTSman's CONTRACTOR
DRAFTSman's CONTRACTOR
DRAFTSman's CONTRACTOR
DRAFTSman's CONTRACTOR
DRAFTSman's CONTRACTOR

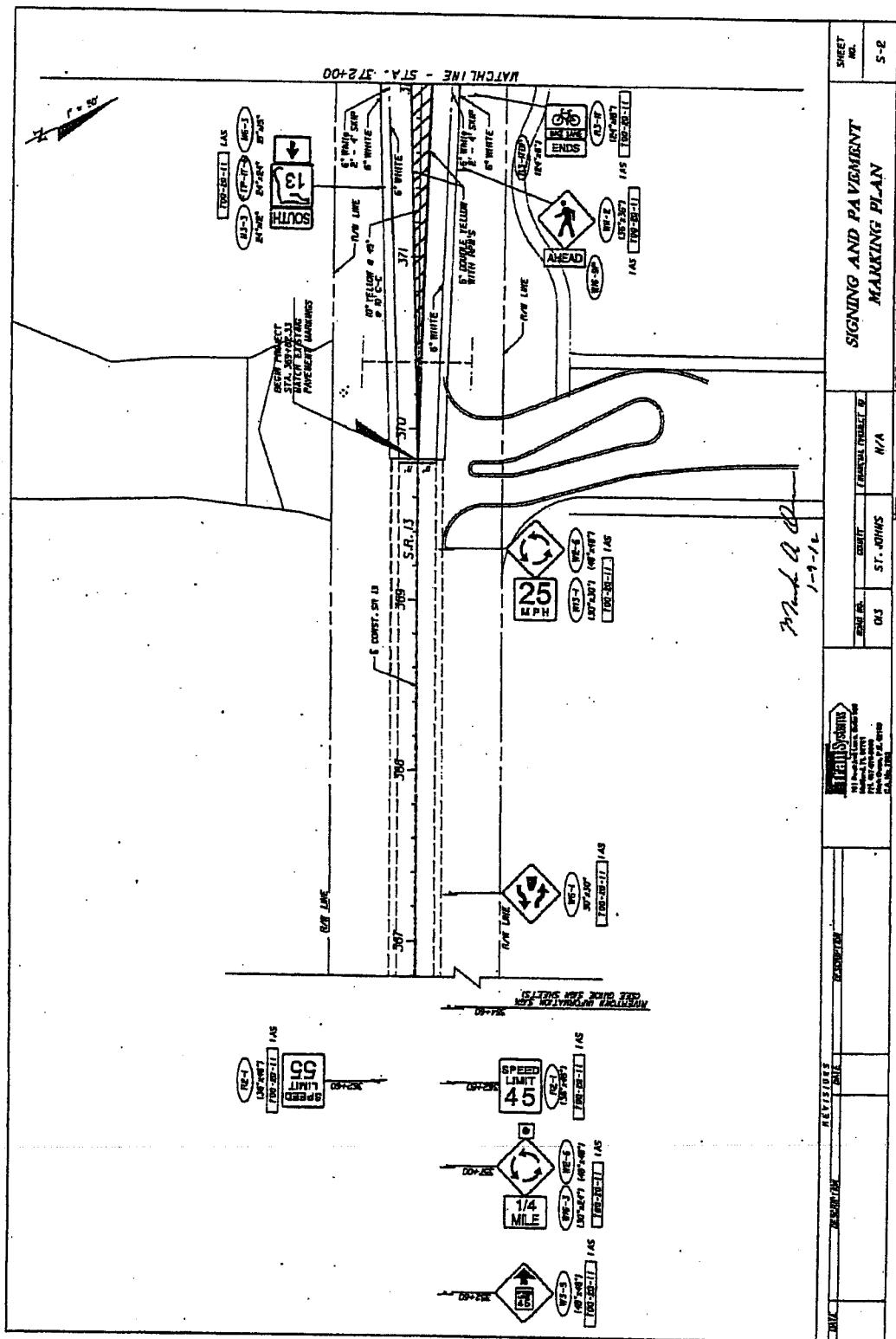
WITH THE SCALE OF THESE PLANS AND
ARE UNCHANGED IN PROPORTION.

KEY SHEET REFERENCES	
Sheet No.	Sheet No.

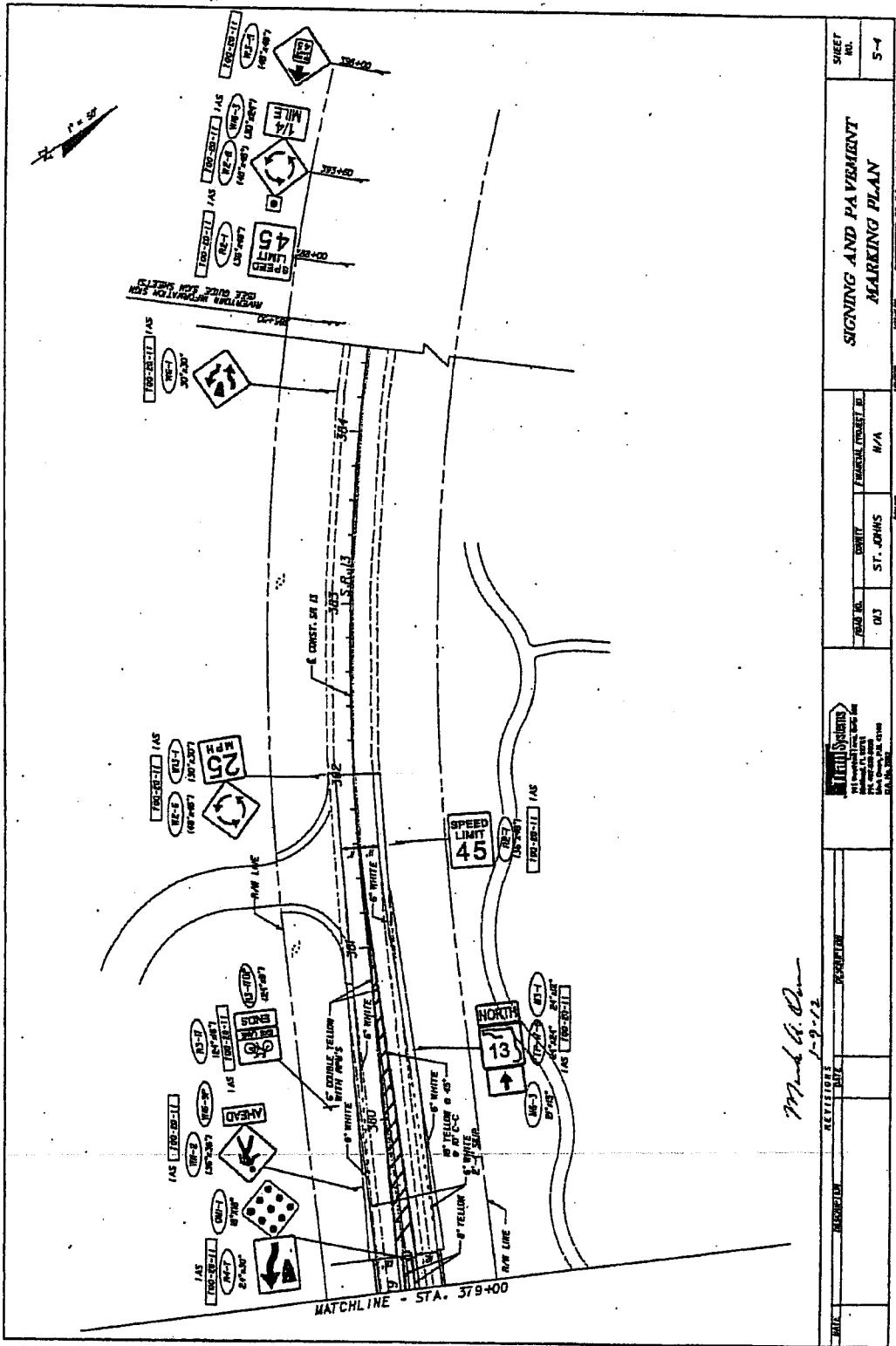
SHEET NO.	
FIRST	SECOND
12	
SHEET NO.	
S-1	

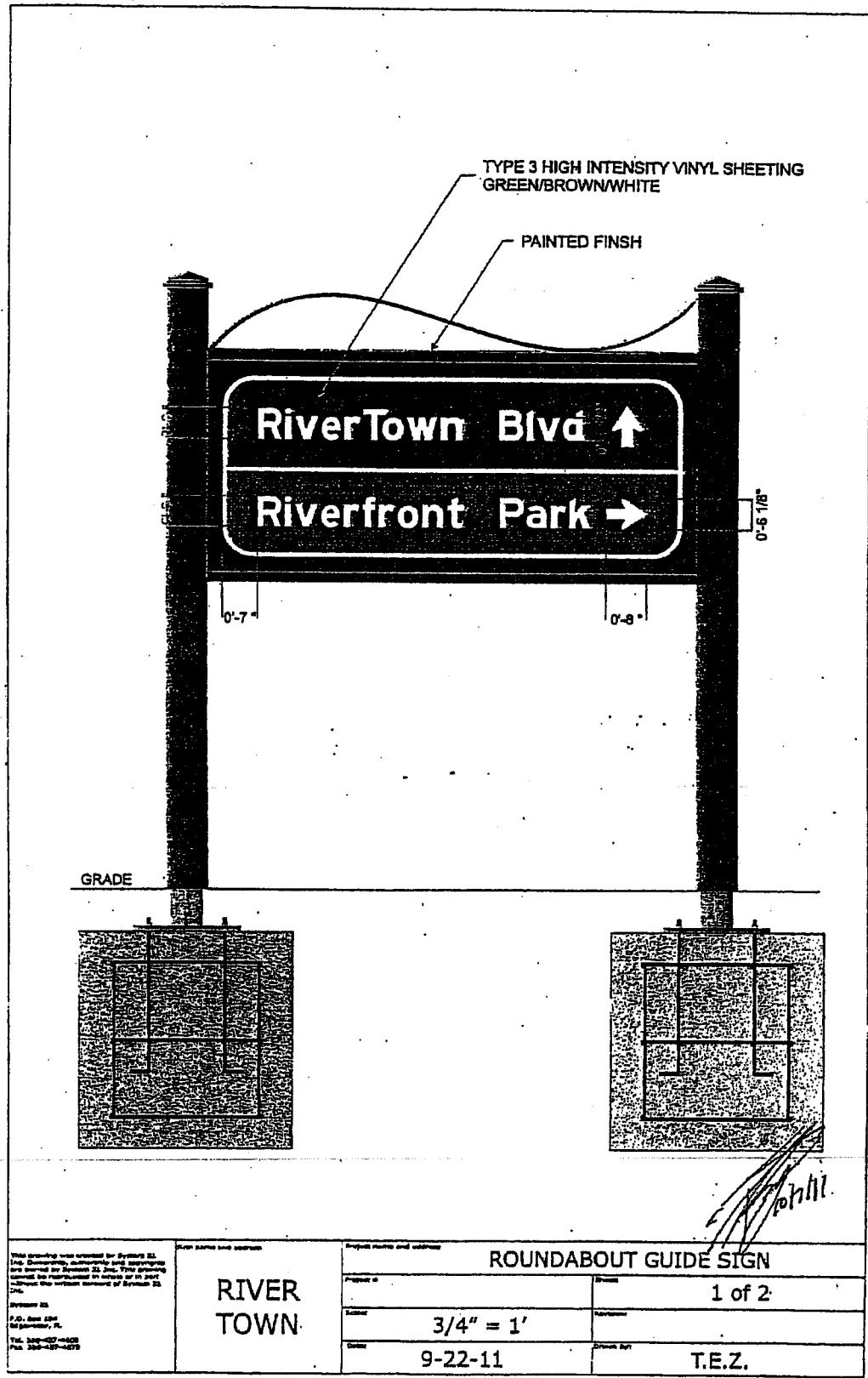
FOOT PROJECT MANAGER: COME & WALKER

Initials:

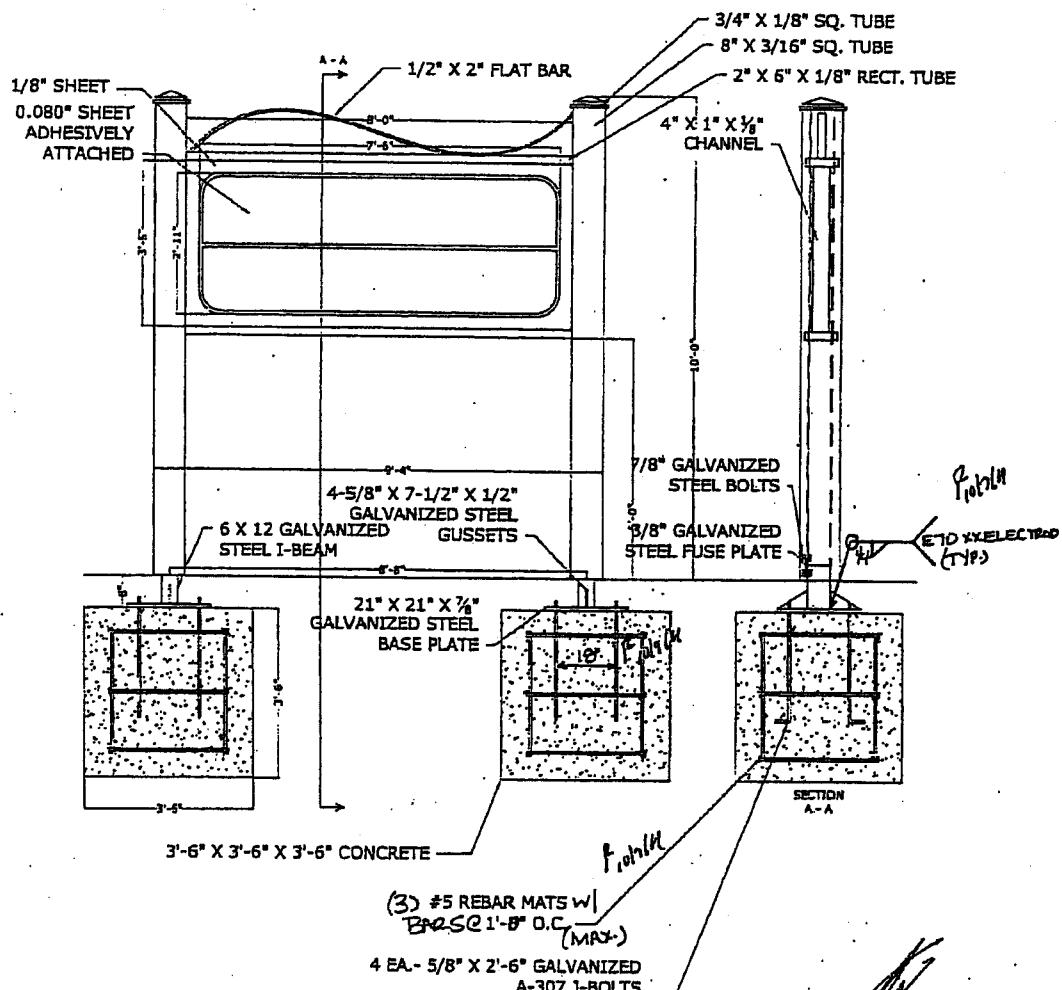


SIGNING AND PAVEMENT MARKING PLAN	
STATION	5-3
DATE	5/10/00
SP. DIMNS.	N/A
REF.	
WATCH LINE - STA. 379+00	
WATCH LINE - STA. 378+00	

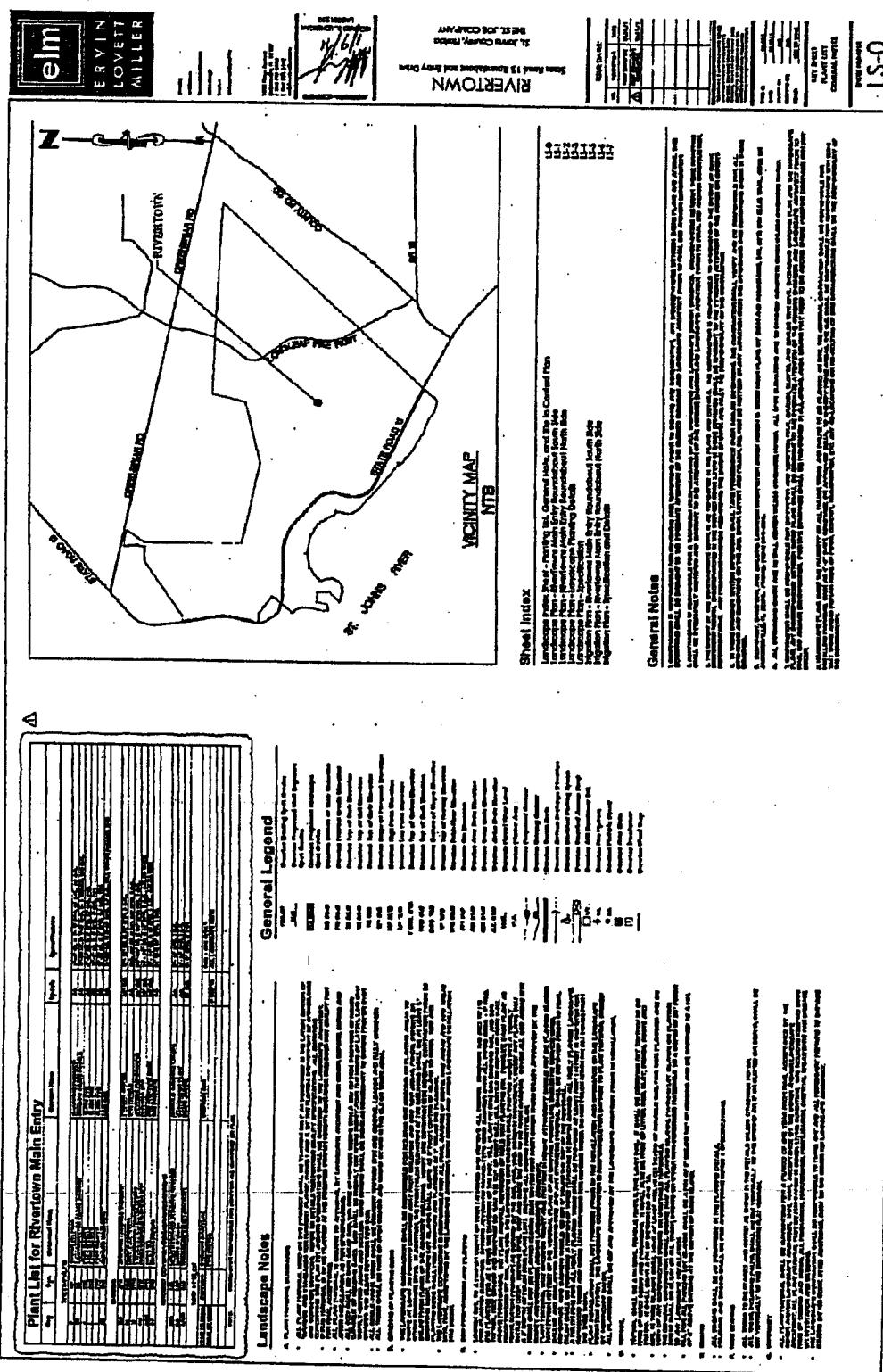


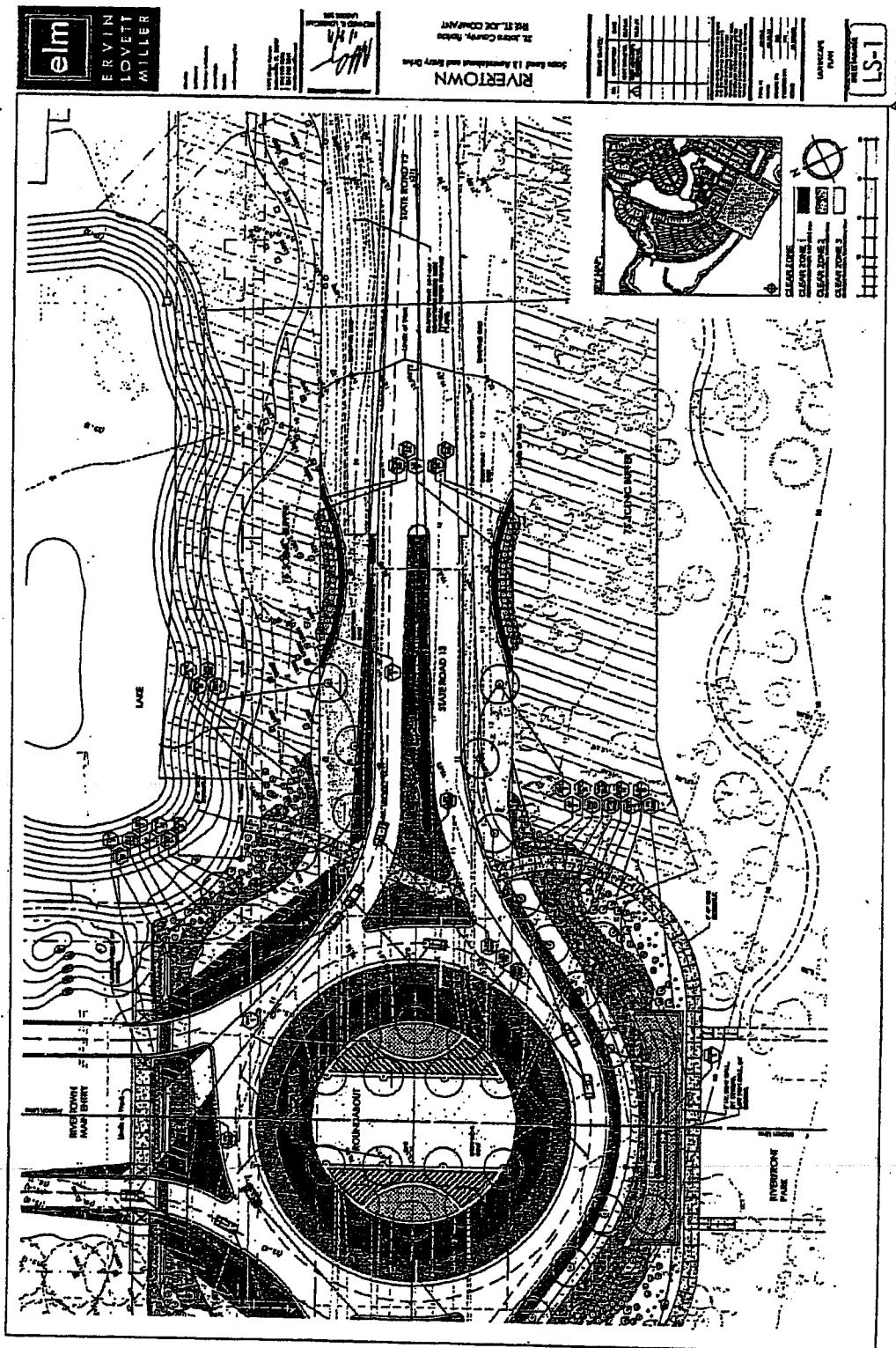


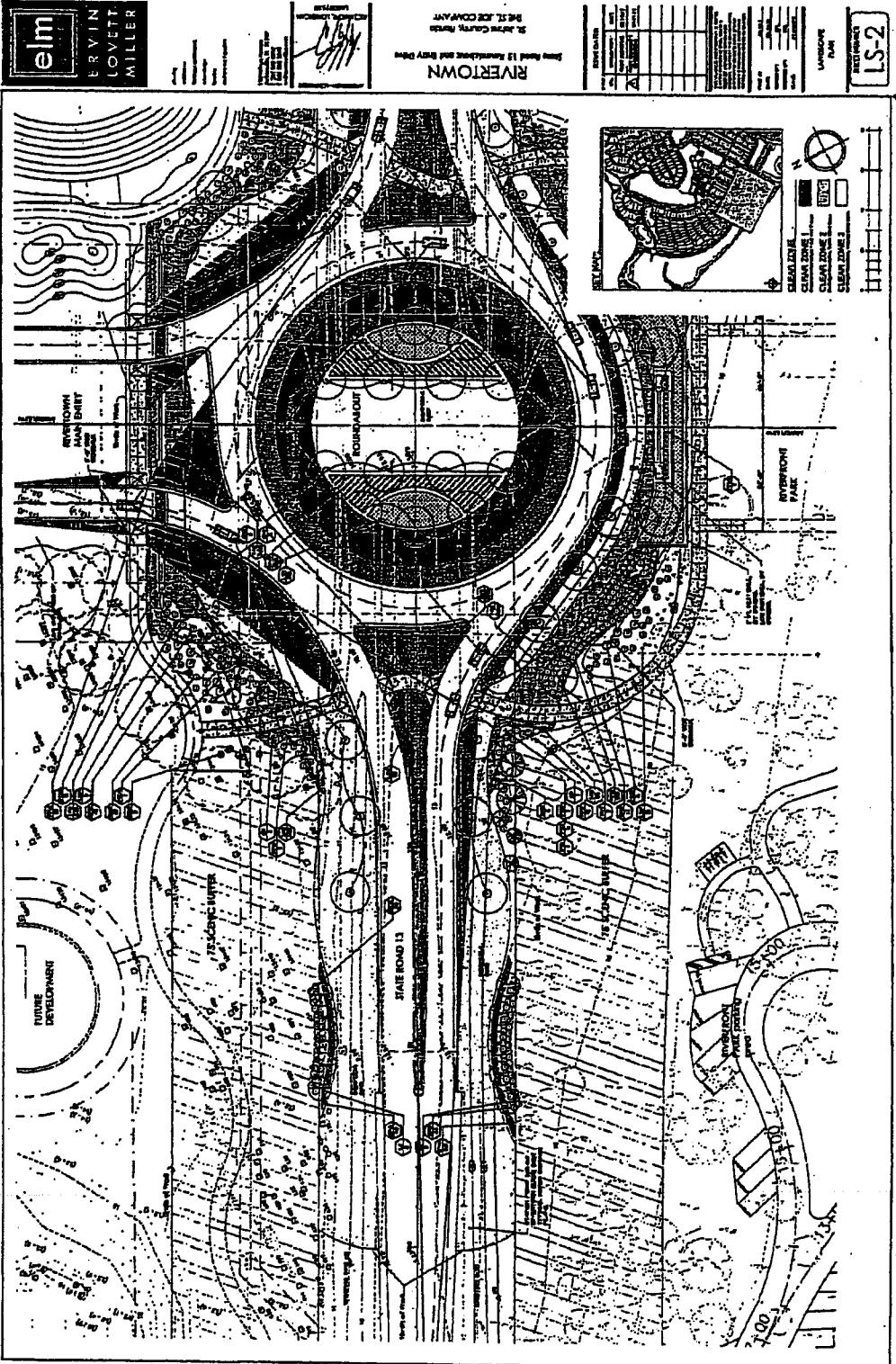
-ALL ALUMINUM CONSTRUCTION
 -WELDED FABRICATION
 -EXCEPT AS NOTED
 -BREAKAWAY DESIGN PER
 F.D.O.T. 2010 INTERIM DESIGN.
 STANDARD INDEX # 11200



This drawing was created by System 21 Inc. Drawing, ownership and copyrights are held by System 21 Inc. Any unauthorized copying or reproduction in whole or in part without the written consent of System 21 Inc.		Architect and address	Project name and address
System 21 P.O. Box 194 Albuquerque, NM Tel: 284-427-4600 Fax: 284-427-4678	RIVER TOWN		ROUNDABOUT GUIDE SIGN
		Project #: 1/2" = 1'	Sheet: 2 of 2
		Date: 9-22-11	Drawn By: T.E.Z.







Landscape Specifications		Planning Details		Tree Planting		Ground Cover		Shrub Planting		Existing Tree Care Notes		Contractor Notes	
<p>elm</p> <p>ERVIN LOVETT MILLER</p> <p>RIVERTOWN</p> <p>ANNUAL FOLIAGE COLOR CHART</p> <p>WINTER PLANTING</p> <p>SPRING PLANTING</p> <p>SUMMER PLANTING</p> <p>FALL PLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>		<p>REPLANTING</p> <p>REPLANTING</p> <p>REPLANTING</p>	
<p>Planning Details</p> <p>Landscaping</p> <p>Soil Preparation</p> <p>Site Preparation</p> <p>Tree Removal</p> <p>Tree Staking</p> <p>Tree Anchoring</p> <p>Tree Bracing</p> <p>Tree Bandage</p> <p>Tree Paint</p> <p>Root Protection</p>		<p>Tree Planting</p> <p>Tree Planting</p>		<p>Ground Cover</p> <p>Ground Cover</p>		<p>Shrub Planting</p> <p>Shrub Planting</p>		<p>Existing Tree Care Notes</p> <p>Existing Tree Care Notes</p>		<p>Contractor Notes</p> <p>Contractor Notes</p>			

L-3

elm

ERVIN
LOVETT
MILLER

REVERTON
DIA 25 FOR CHARGE AREA
11.000 CUBIC FEET OF GAS

REVERTON
DIA 25 FOR CHARGE AREA
11.000 CUBIC FEET OF GAS

AMERICAN
PIPELINE

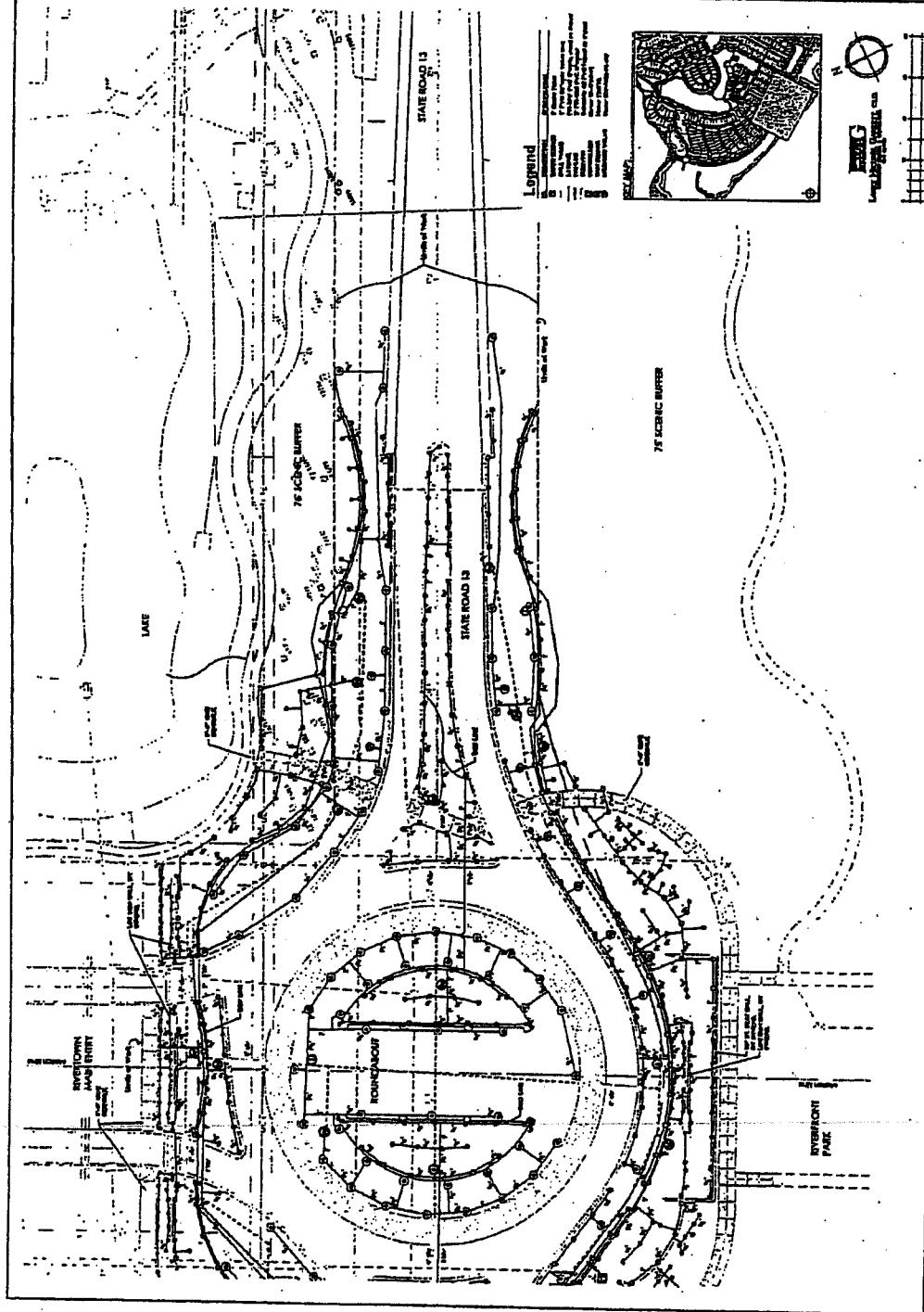
PART NO.
LS-4

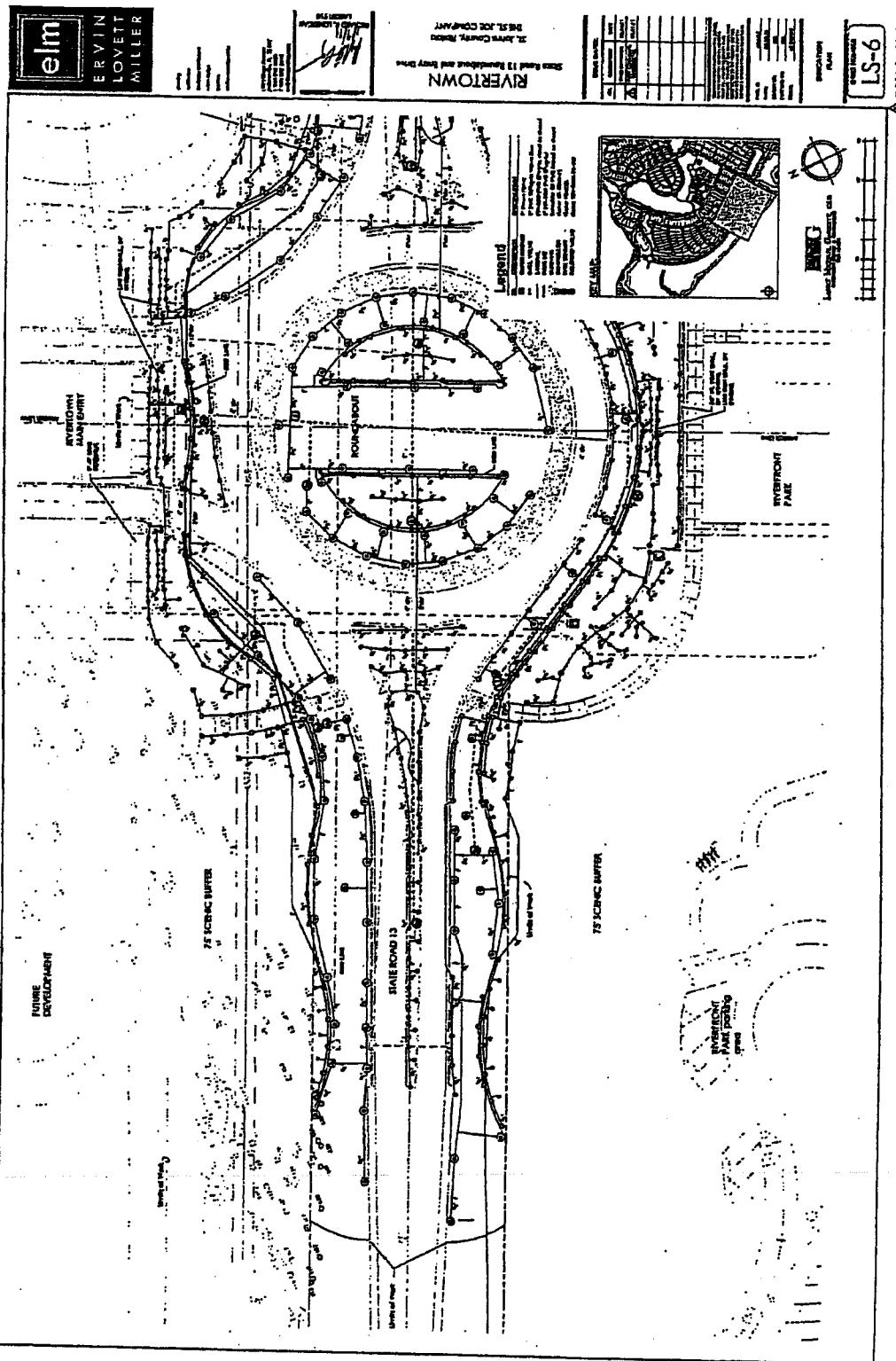
elm

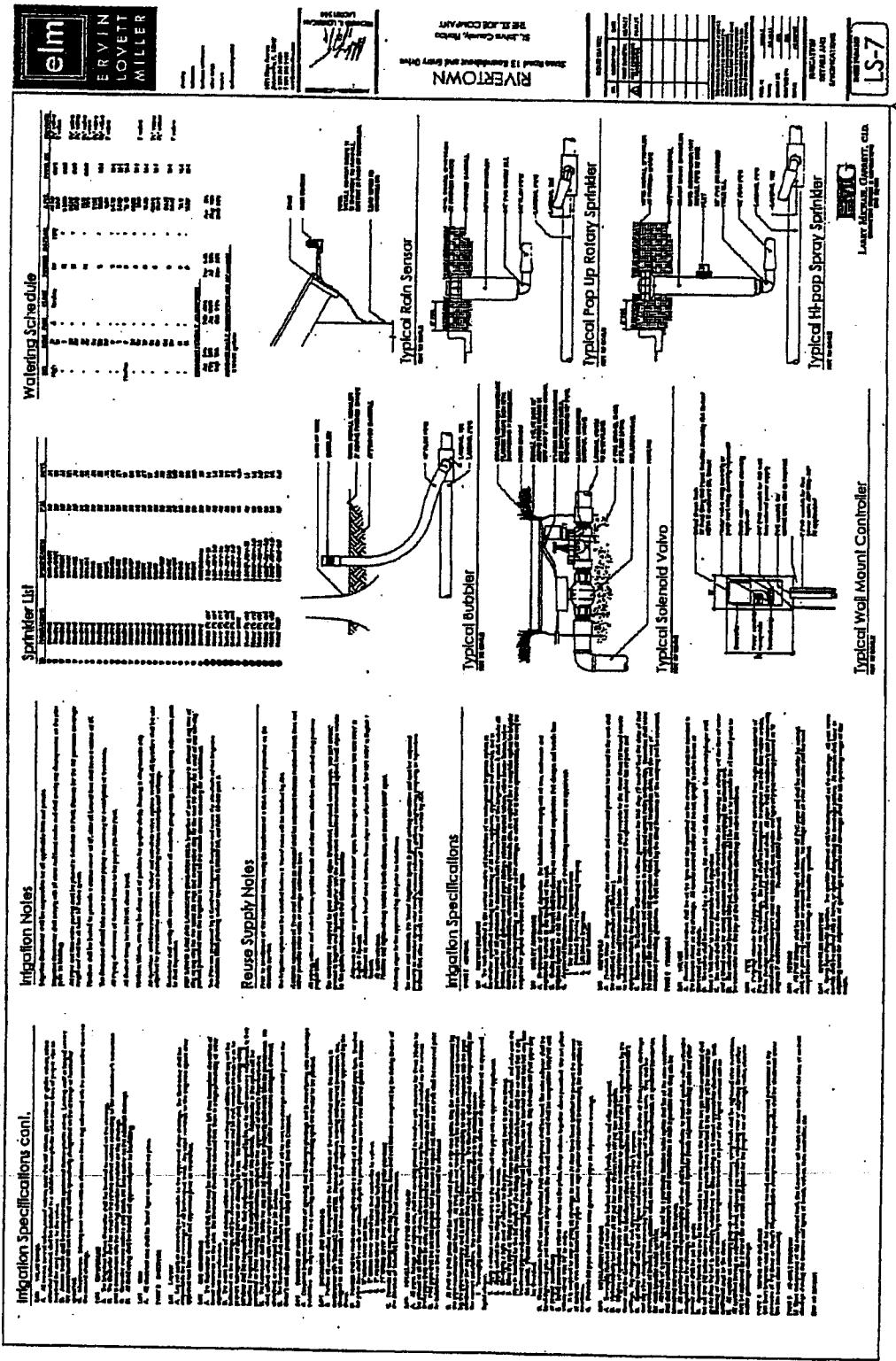
EVIN
LOVETT
MILLER

RIVERTOWN
STATE ROAD 13
SOUTH AND EAST Scenic Byway
THE 125 MILE CROWN ROAD

LS-5







Rivertown

This sign has been designed in accordance with the requirements of the 2007 Florida Building Code - Building, Chapter 16, Structural Design, with 2009 Supplement. The following wind load requirements, in accordance with Section 1609 and ASCE 7-05, were employed in the design of the structure:

Basic Wind Speed: 130 MPH (3-Second Gust Wind Speed)

Building Category: I

Importance Factor: 0.87

Wind Exposure: B

Internal Pressure Coefficient: +/- 0.00

Design Pressure for Components & Cladding: +/-36.77 PSF

DAVIS & CLEATON ENGINEERING, INC.
260 WEKIVA SPRINGS ROAD, SUITE 1060
LONGWOOD, FL 32779
PHONE #: 407-539-2353 LIC.#35816

10/21/11

**Design Calculations for Rivertown Roundabout Guide Sign in St. Johns County, Florida for
System 21**

Project: *Rivertown*

Preparer: *Frank A. Cleaton, Jr.*
Davis & Cleaton Engineering, Inc.
260 Wekiva Springs Road, Suite 1060
Longwood, FL 32779
PE #35816

Date: *October 7, 2011*

Structural Notes:

- 1.) Contractor shall verify all dimensions and conditions on the job site.
- 2.) All structural steel members are to be painted.
- 3.) All structural steel pipe shall conform to ASTM A501, $F_y = 36$ ksi (min.).
- 4.) All structural steel shapes and plates shall conform to ASTM A36, $F_y = 36$ ksi (min.).
- 5.) All connections are to be welded as specified on the drawings.
- 6.) All welding shall conform to AISC specifications and/or local codes and be accomplished by a certified welder using an arc process with E70XX electrodes.
- 7.) Isolate Aluminum from Steel per section 2004.3 of the Uniform Building Code (UBC) (1997 Edition).
- 8.) All bolt holes are to be drilled or punched.
- 9.) Concrete to have $f_c' = 3000$ psi (min.) @ 28 days.

Design Criteria:

Design Code:

2007 FBC with 2009 Supplement

(Note: Design loads were obtained in accordance with ASCE 7-05
(American Society of Civil Engineers Minimum Design Loads for Buildings and Other Structures)).

Wind Speed:
Wind Exposure:

130 MPH (3-Sec. Wind Speed)
"B"

Overall Sign Height =

10.00 Ft

Dimensions of Sign:

Height =	3.75 Ft
Length =	8.00 Ft
Width =	N/A Ft

Determine Loading:

Dead Weight of Sign:

Design Calculations for Rivertown Roundabout Guide Sign in St. Johns County, Florida for System 21

Total Dead Load =	1,500.00 Lbs.	Use	1,500 Lbs.
Wind Velocity Pressure = $q_z =$	$0.00256K_zK_dK_vV^2 =$	38.77 PSF	(Top Sign)
Force Coefficient on Sign = $C_f =$	1.2		

Determine Moment @ Each End of Sign:

Load on Sign =	1,323.88 Lbs.
Lever Arm =	8.13 Ft
Load on Column =	183.87 Lbs.
Lever Arm =	3.13 Ft
Total Load on Each Column =	753.88 Lbs.
Moment @ Each Column Base =	5,952.86 Ft-Lbs.

Determine Member Sizes:

Size of Column Required:

$F_y =$	36,000 PSI
$F_b =$	21,600 PSI

$S_{Req. @ Top of Footer} =$ 3.31 in.³

$S_{6x12 WF Col.} =$ 7.31 in.³ > 3.31 in.³ O.K.

Therefore, (2) W6x12 Columns are acceptable.

Size Anchor Bolts Required:

Moment @ Top of Footer = 6,958.02 Ft-Lbs.

No. Anchor Bolts = 4

Tension on Each Anchor Bolt = 2,319.34 Lbs.

Size Anchor Bolt = 0.625 in. Dia.

Anchor Bolt Material = A307

Design Calculations for Rivertown Roundabout Guide Sign in St. Johns County, Florida for System 21

Tensile Capacity of Anchor Bolt =	6,100.00 Lbs.	>	2,319.34 Lbs.	O.K.
Perimeter of Anchor Bolt =	1.96 In.			
Required Embedment of Anchor Bolt =	19.69 In. <			24 In. O.K.

Use (4) 5/8" Diameter Anchor Bolts with 24" (Min.) Embedment.

Size Base Plate Required:

Try the Following Base Plate Dimensions:

Min. Edge Distance =	1.5 In.
Width =	21 In.
Depth =	0.875 In.
Thickness =	21.00 In.

Distance Between Face of Column & Anchor Bolt = 7 In.

Moment on Base Plate = 32,470.77 In.-Lbs.

$S_{Req'd.} = 1.50 \text{ in.}^3$

$S_{Provided} = 2.68 \text{ in.}^3 > 1.50 \text{ in.}^3$ O.K.

Determine Size of Weld Required to Attach Column to Base Plate:

$S_{Weld} = 60.00 \text{ in.}^2$

$f = 1,391.60 \text{ Lbs./in.}$

Allow. Shear Stress on Fillet Weld = $f = 11,200 \text{ w Lbs./in.}$ for Buildings Using E70xx Electrode.

Size Fillet Weld Req'd. = 0.12 In. < 0.25 In. O.K.

Use 21" x 21" x 7/8" Thick Base Plate Welded to Column with 1/4" All Around Fillet Weld.