

RESOLUTION NO. 2012- 114

**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 FLORIDA DEPARTMENT OF TRANSPORTATION 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,** the Department requires the County to be the party that enters into an agreement with the Florida Department of Transportation (FDOT) for maintenance; and

**WHEREAS,** through a separate agreement the CDD has committed to the County to operate, maintain and repair the Improvements, Stormwater Pond and Drainage Facilities as described in the agreements, as specified under the FDOT CJ agreement, at its sole expense; 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 FDOT-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: \_\_\_\_\_

Sam Halterman  
Deputy Clerk

RENDITION DATE 4/5/12



## MAINTENANCE AGREEMENT

**THIS MAINTENANCE AGREEMENT** ("Agreement") is made and entered into by and between the State of Florida Department of Transportation ("Department") and St. Johns County, Florida ("County").

### - Recitals -

A. The parties are executing this Agreement as a result of the Construction & Joint Use Agreement ("CJ Agreement") entered by and between the Department, Rivers Edge Community Development District ("CDD") and the St. Joe Company ("St. Joe"); and

B. Pursuant to the terms and provisions of the CJ Agreement, 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, and pedestrian crosswalk lighting (collectively "Improvements"); and

C. The term "Improvements" shall also include the rectangular rapid flashing beacon ("RRFB") system within the pedestrian crosswalks; and

D. Plans for the Improvements are attached to this Agreement as Exhibit "A"; and

E. 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

F. Pursuant to the terms and provisions of the CJ Agreement, the CDD 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

G. Upon the Department's approval of construction of the Improvements and Drainage Facilities, the County shall operate, maintain and repair the Improvements, Stormwater Pond and Drainage Facilities.

**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

The County shall: (a) 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 contract; and (b) 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.

### 4. COMPLIANCE

The County 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 and local governmental entities ("Governmental Law").

#### **5. PERMITS**

In the performance of the Agreement the County may be required to obtain one or more Department 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 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. Should any term or provision of the Agreement conflict with any term, provision or requirement of any Department permit, the terms and provisions of the Agreement shall control unless specifically noted otherwise in any such Department 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's acceptance of the construction of the Improvements and Drainage Facilities, the County shall operate, maintain and repair the Improvements, Stormwater Pond and Drainage Facilities 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 Department to operate, maintain or repair the Improvements, Stormwater Pond or Drainage Facilities, said obligations to remain the sole responsibility of the County as specified in this section.

B. If the Department 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 Department shall deliver written notification of such to the County. The County shall have thirty (30) days from the date of the Department's written notice, or such other time as the Department and the County mutually agree in writing, to correct the deficiency and provide the Department with written notice of the same.

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

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

#### **7. MAINTENANCE OF TRAFFIC**

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

#### **8. PERMISSIVE USE**

The County's performance of this Agreement creates a permissive use only and shall not operate to create or vest any additional property rights in the County. The County shall not acquire any right, title,

interest or estate in any Department 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 Department's receipt of a written request from the County, the Department shall provide written notice: (1) indicating whether the County 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 Department pursuant to this Agreement.

#### **10. PAYMENT**

All Department 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 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 principal 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 County shall promptly defend, indemnify, hold the Department 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 County's negligence, intentional or wrongful acts, omissions or the performance or breach of this Agreement ("Liabilities"). The County shall immediately notify the Department in writing upon becoming aware of any Liabilities. The County shall, upon the Department's written demand, participate and associate with the Department in the defense and trial of any Liabilities, including related settlement negotiations. The inability of the County 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 Department for its negligence, intentional or wrongful acts, omissions or breach of contract.

#### **12. SOVEREIGN IMMUNITY & LIMITATION OF LIABILITY**

A. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the Department's or the 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.

B. The Department's liability for breach of this Agreement is specifically: (1) limited to actual damages incurred by the County as a direct result of the Department'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. DUE DILIGENCE & WARRANTIES**

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

B. The Department 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.

#### **14. 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:

Department: Florida Department of Transportation  
Attention: St. Augustine Maintenance Engineer  
3600 DOT Road  
St. Augustine, Florida 32084

County: County Administrator  
St. Johns County  
500 San Sebastian View  
St. Augustine, Florida 32084

Copy to: County Attorney  
St. Johns County  
500 San Sebastian View  
St. Augustine, Florida 32084

**15. GOVERNING LAW**

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

**16. INITIAL DETERMINATION OF DISPUTES**

The Department's District Two Secretary ("District Secretary") shall act as the initial arbiter of all questions, difficulties, and disputes concerning the interpretation, validity, performance or breach of the Agreement.

**17. 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 Department's District Secretary shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

B. The County 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.

**18. 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.

**19. ASSIGNMENT**

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

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

**20. 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.

**21. 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.

**22. 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.

**23. 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.

**24. 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.

**25. 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.

**26. 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.

**27. 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.

**28. 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.

**29. 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.

**30. 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.

IN WITNESS WHEREOF, intending to be legally bound hereby, the parties hereby execute this Agreement, consisting of six (6) pages.

**SIGNATURES ON FOLLOWING PAGE**

**Florida Department of Transportation**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Legal Review:**

By: \_\_\_\_\_

Office of the General Counsel  
Florida Department of Transportation

**Witnesses:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

**St. Johns County, Florida**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Legal Review:**

By: \_\_\_\_\_

Legal Counsel for St. Johns County, Florida

**Attest:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**Exhibit "A"**  
**(Plans for the Improvements)**



**COMPONENTS OF CONTRACT PLANS SET**

ROADWAY PLANS  
 SCHEMATIC PRESENT JAWING PLANS  
 LANDSCAPE PLANS

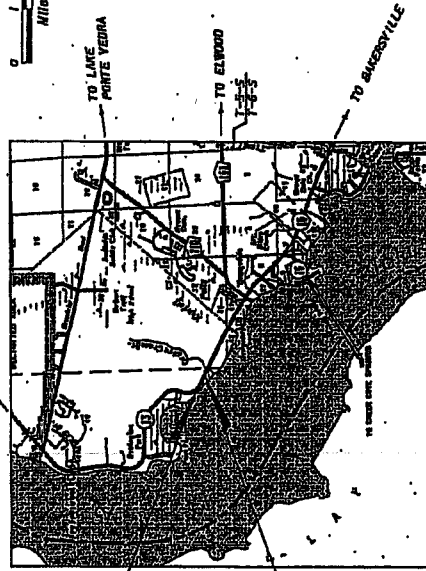
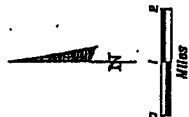
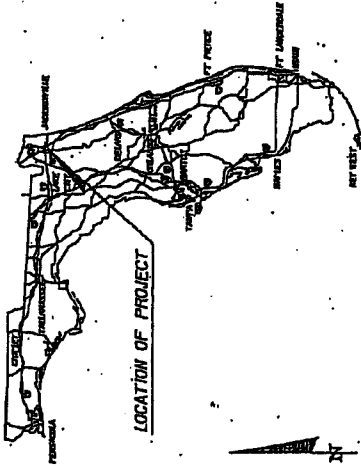
**INDEX OF ROADWAY PLANS.**

SHEET NO.	SHEET DESCRIPTION
1	GEN. SUBSET
2-9	TYPICAL SECTION
6	GENERAL NOTES
7-12	PLAN VIEW
13-20	CROSS SECTION
21-25	STORMWATER POLLUTION PREVENTION PLAN
26-38	TRAFFIC CONTROL PLAN

APPLICABLE DESIGN STANDARDS ARE INDICATED BY A-8  
 FOR THE FOLLOWING: DESIGN SPEEDS ARE INDICATED BY A-8  
 FOR THE FOLLOWING: DESIGN SPEEDS ARE INDICATED BY A-8

REVISIONS AND SPECIFICATIONS  
 DESIGN APPROVED BY THE STATE  
 STANDARDS APPROVED BY THE STATE  
 THESE CONSTRUCTION DATES ARE AS  
 INDICATED BY CONTRACT DOCUMENTS.

**CONTRACT PLANS**  
**ST. JOHNS COUNTY (78070)**  
**STATE ROAD NO. 13**



END PROJECT  
 STA. 382+00.00

BEGIN PROJECT  
 STA. 369+02.33  
 M.P. 7.006

PLANS PREPARED BY:  
 TRANSPORTATION CONSULTANTS  
 1000 W. BROADWAY, SUITE 100  
 ATLANTA, GA 30333  
 TEL. (404) 525-1000

INTO THE SCALE OF THESE PLANS MAY  
 HAVE CHANGED BY RETROACTION.

PROJECT LENGTH IS BASED ON \$ OF CONSTRUCTION

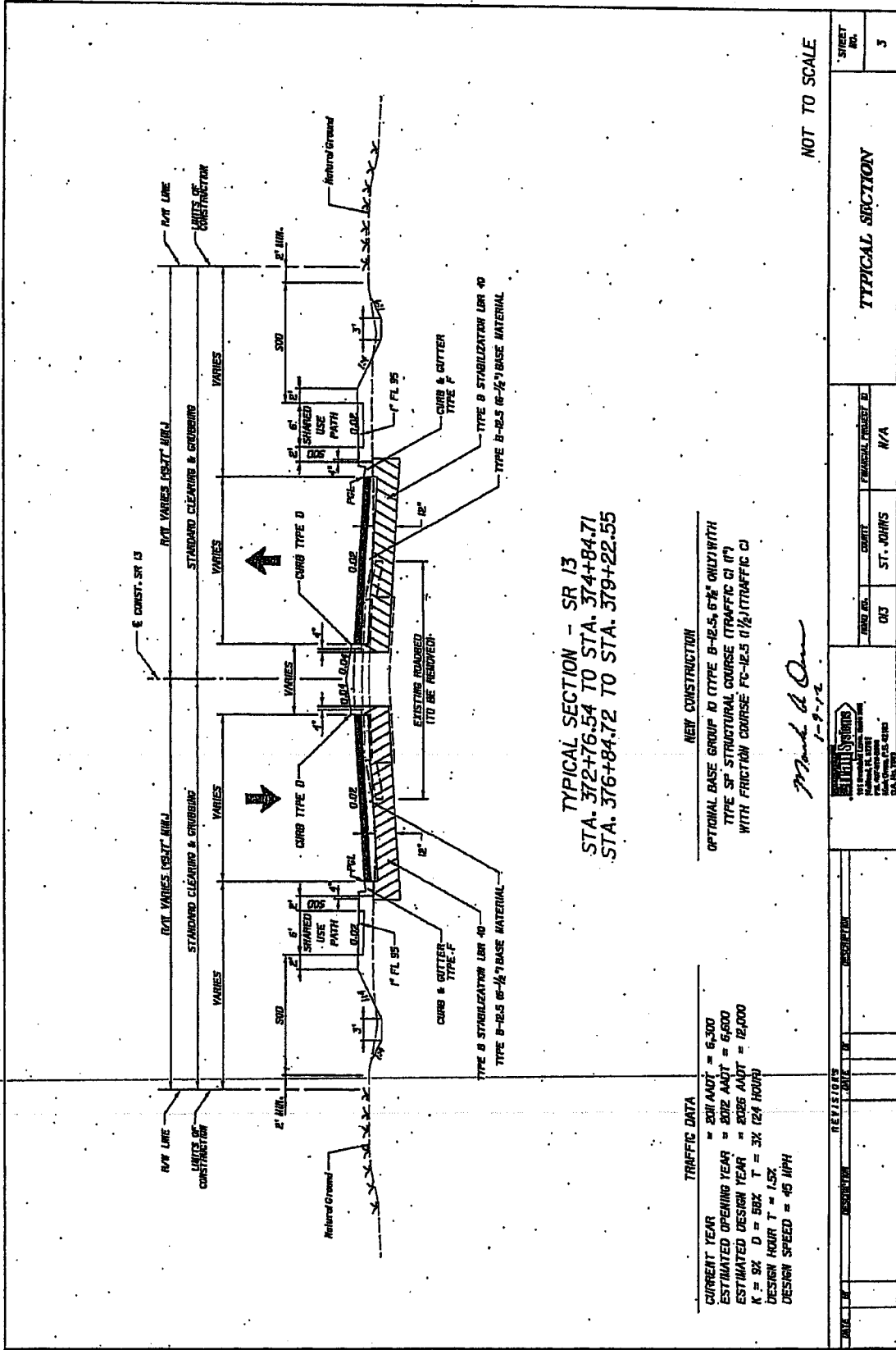
LENGTH OF PROJECT	
ROADWAY	LINEAR FEET
BRIDGES	1177.10
NET LENGTH OF PROJECT	1177.10
BRIDGES	1177.10
GROSS LENGTH OF PROJECT	1177.10

DATE	BY	DESCRIPTION

DESIGNED BY: *Mark A. Quinn*  
 PROJECT NO.: 7803  
 DATE: 11/9/12  
 FISCAL YEAR: 12  
 SHEET NO.: 1

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION





**TYPICAL SECTION - SR 13**  
**STA. 372+76.54 TO STA. 374+84.71**  
**STA. 376+84.72 TO STA. 379+22.55**

**NEW CONSTRUCTION**  
 OPTIONAL BASE GROUP D (TYPE B-12.5, 6" ONLY WITH  
 TYPE SF STRUCTURAL COURSE (TRAFFIC C) (7')  
 WITH FRICTION COURSE FC-12.5 (1/2) (TRAFFIC C)

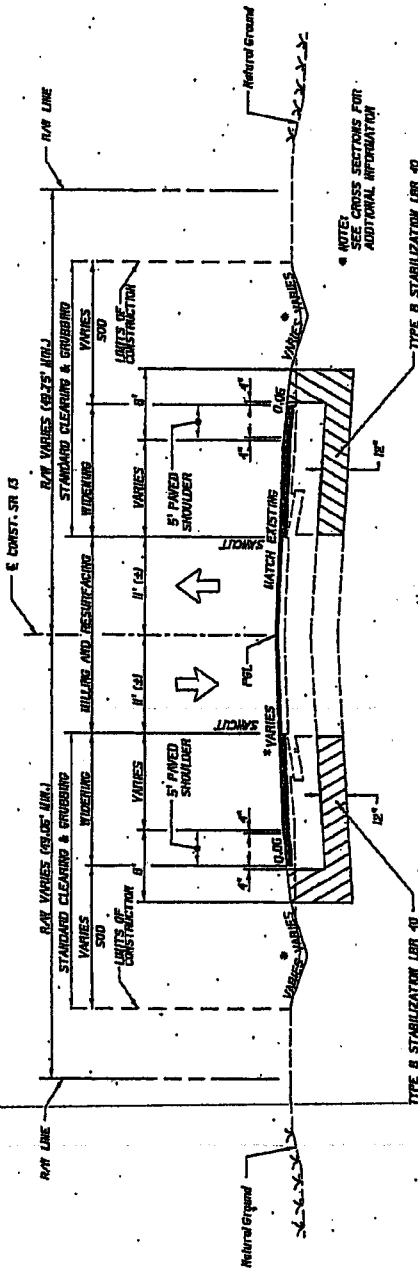
**TRAFFIC DATA**  
 CURRENT YEAR = 2011 ADOT = 6,300  
 ESTIMATED OPENING YEAR = 2012 ADOT = 6,600  
 ESTIMATED DESIGN YEAR = 2035 ADOT = 12,000  
 K = 3X D = 50X T = 3X (24 HOURS)  
 DESIGN HOUR T = 1.5X  
 DESIGN SPEED = 45 MPH

*M. J. Quinn*  
 1-9-12

DATE	BY	DESCRIPTION	REVISION	DATE	BY	DESCRIPTION

PROJECT NO.	013	CONTRACT	ST. JOHNS	FRANCHISE PROJECT ID	N/A
SHEET NO.	3	TYPICAL SECTION			



TYPICAL SECTION - SR 13  
 STA. 369+82.33 TO STA. 372+76.54  
 STA. 379+22.55 TO STA. 382+00.00

\* CROSS SLOPE  
 † MATCH EXISTING CROSS SLOPE:  
 STA. 369+82.33 TO 372+76.54  
 STA. 379+22.55 TO 382+00.00

MILLING  
 WILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)  
 RESURFACING  
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")  
 WIDENING  
 OPTIONAL BASE GROUP 10 (TYPE B-2.5, 6% ORU) WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (7")  
 WITH FRICTION COURSE FC-12.5 (1 1/2") (TRAFFIC C)

*Mark A. Quinn*  
 1-9-12

TRAFFIC DATA

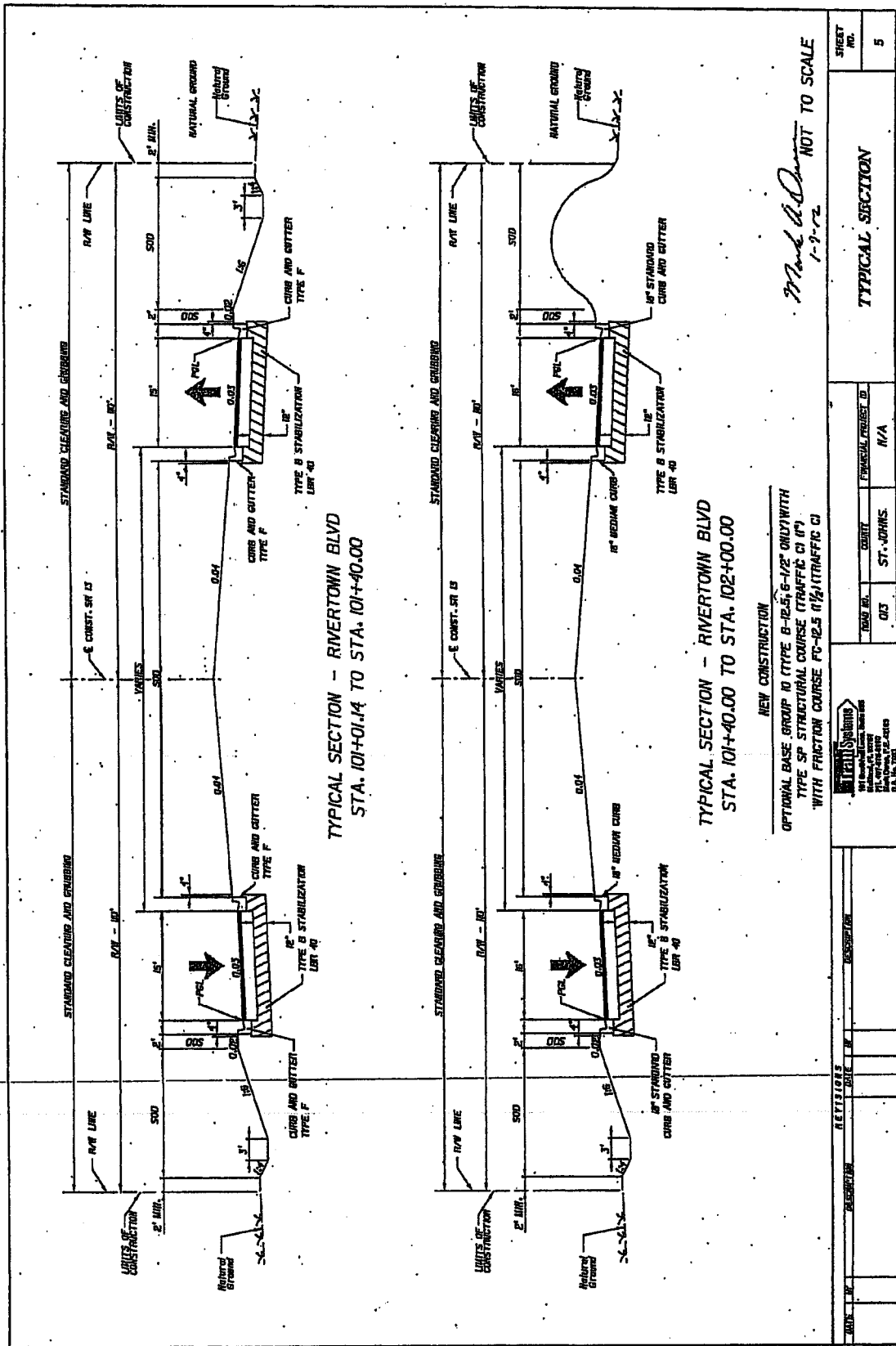
CURRENT YEAR	= 2011 ADOT = 6,300
ESTIMATED OPENING YEAR	= 2012 ADOT = 6,600
ESTIMATED DESIGN YEAR	= 2026 ADOT = 12,000
K = BK	D = 50%
DESIGN HOUR T	= 1.5%
DESIGN SPEED	= 45 MPH

REVISIONS

NO.	DESCRIPTION	DATE	BY

<b>TYPICAL SECTION</b>			SHEET NO. <b>4</b>
DRAWN BY <b>CS</b>	CHECKED <b>ST. JOHNS</b>	FINANCIAL CHECKED <b>M/A</b>	
M&T Systems <small>MEMPHIS, TENNESSEE          4785 W. WOODBURN AVENUE          MEMPHIS, TN 38114-4802          TEL: 901.597.0000          FAX: 901.597.0008</small>			PROJECT NO. DATE PLOTTED SCALE DRAWN BY CHECKED BY FINANCIAL CHECKED BY DATE PLOTTED SCALE

NOT TO SCALE



*Handwritten Signature*  
1-2-72  
NOT TO SCALE

REVISIONS		DESCRIPTION		DATE		BY	

TOWN	COUNTY	ST. NO.	ST. NO.	ST. NO.	ST. NO.	ST. NO.	ST. NO.

PROJECT NO.	SHEET NO.
	5

**GENERAL NOTES**

1. BENCHMARK DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929. (NVD 29).

ON NO. 20-1117  
 ST. JOHNS COUNTY  
 GEOMETRIC CONTROL MONUMENT  
 ELEVATION = 2,085.537 (70)  
 ELEVATION = 2,085.517 (623)  
 ELEVATION = 487.528 (328)  
 ELEVATION = 14.11

ON NO. 20-1118  
 ST. JOHNS COUNTY  
 GEOMETRIC CONTROL MONUMENT  
 ELEVATION = 2,056.070 (528)  
 ELEVATION = 487.528 (328)  
 ELEVATION = 16.34
2. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS / ELEVATIONS APPLY ONLY AT THE POINT SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SURSHIRE STATE ONE CALL OF FLORIDA (1-800-332-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS FOR 16 DAYS, IF DIGGING UNDER WATER IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY OWNERS:

FLORIDA POWER & LIGHT	CONTACT	TELEPHONE NUMBERS
JACKSONVILLE ELECTRIC AUTHORITY	Scott Seebly	(904) 864-7679
COAST-CABLE COMMUNICATIONS, INC	Amy Jordan	(904) 655-7613
AT&T COMMUNICATIONS	John P. Fisher	(904) 350-3046
TECO PEOPLES GAS	Steve Fennel	(904) 258-3168
	JERRARD CARTER	(904) 443-7255
5. ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE DISTRICT LOCATION SUPERVISOR WITHOUT DELAY BY TELEPHONE.
6. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION FROM THE DISTRICT LOCATION SUPERVISOR. THE CONTRACTOR SHALL PROVIDE THE DISTRICT LOCATION SUPERVISOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ENGINEER SHALL COORDINATE WITH THE DISTRICT LOCATION SUPERVISOR FOR APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINED AND SUBMITTED THROUGH FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT IMMEDIATELY SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOW OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE DISTRICT LOCATION SUPERVISOR. THE DISTRICT LOCATION SUPERVISOR SHALL ADVISE THE CONTRACTOR OF APPROVAL IS PROVIDED BY THE PROJECT ENGINEER. THE DISTRICT WILL ADVISE THE PROJECT ENGINEER.
7. ALL LINES OR ALL ROADWAYS MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
8. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADWAY AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
9. SOO BARRETT SHOULD BE COUNCIL MEMBERS TO AVOID TROPICAL SOON AFTER CONTAMINATION. ALL SOO SHOULD COME FROM SOURCES IN NORTH FLORIDA.
10. THE CONTRACTOR SHALL PREPARE & SUBMIT NO.1 MEMORANDUM AND ACCOMPANYING 'NOTICE OF INTENT TO CEMERIC PERMIT FOR STORMWATER DISCHARGE FROM LAKE AND SHALL CONSTRUCTION ACTIVITIES' DOCUMENTATION.

*Mark A. De...*  
 1-9-12

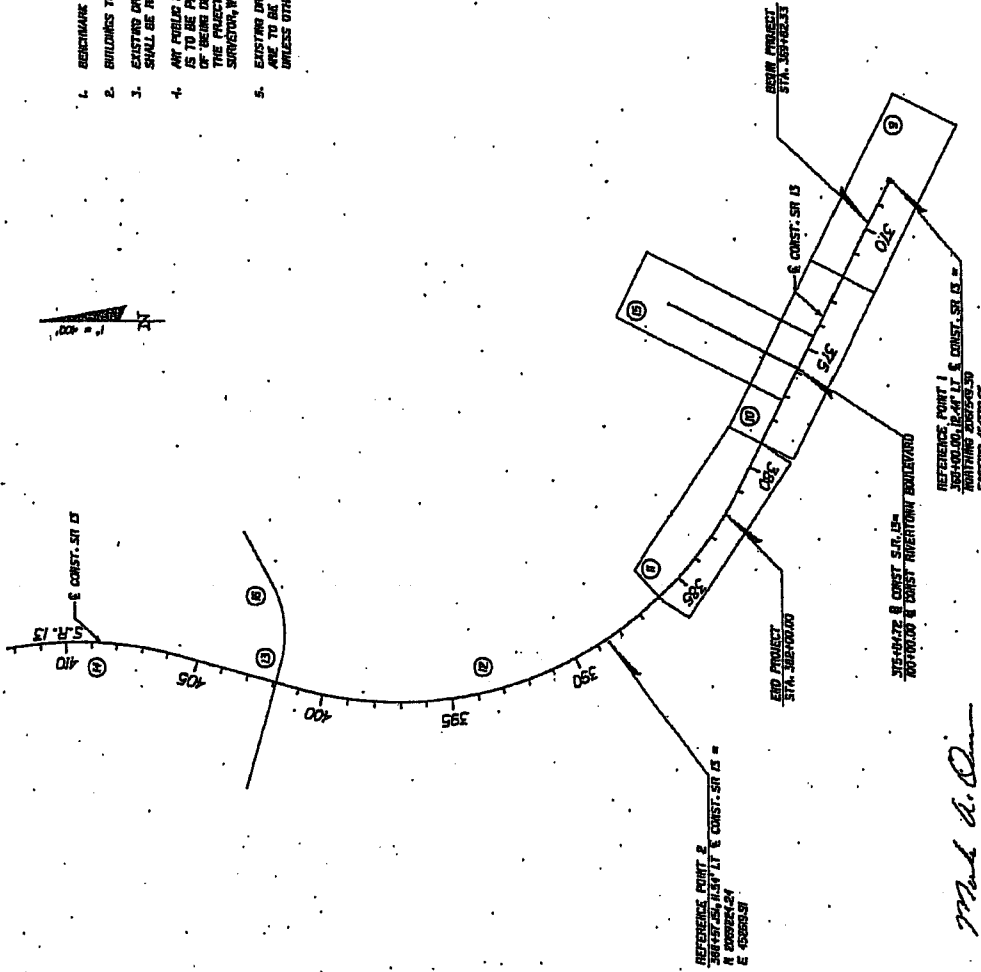
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ROAD NO. 013 COUNTY ST. JOHNS PROJECT ID N/A SHEET NO. 6			STREET NO. 6

**GENERAL NOTES**

31567 PF

GENERAL NOTES

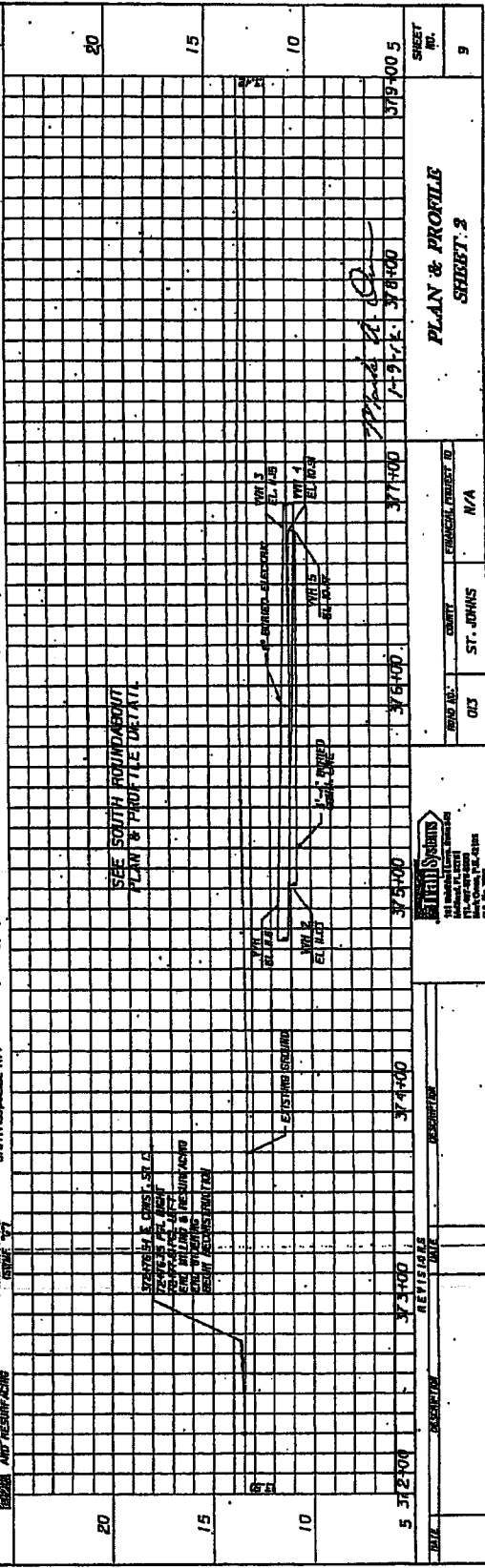
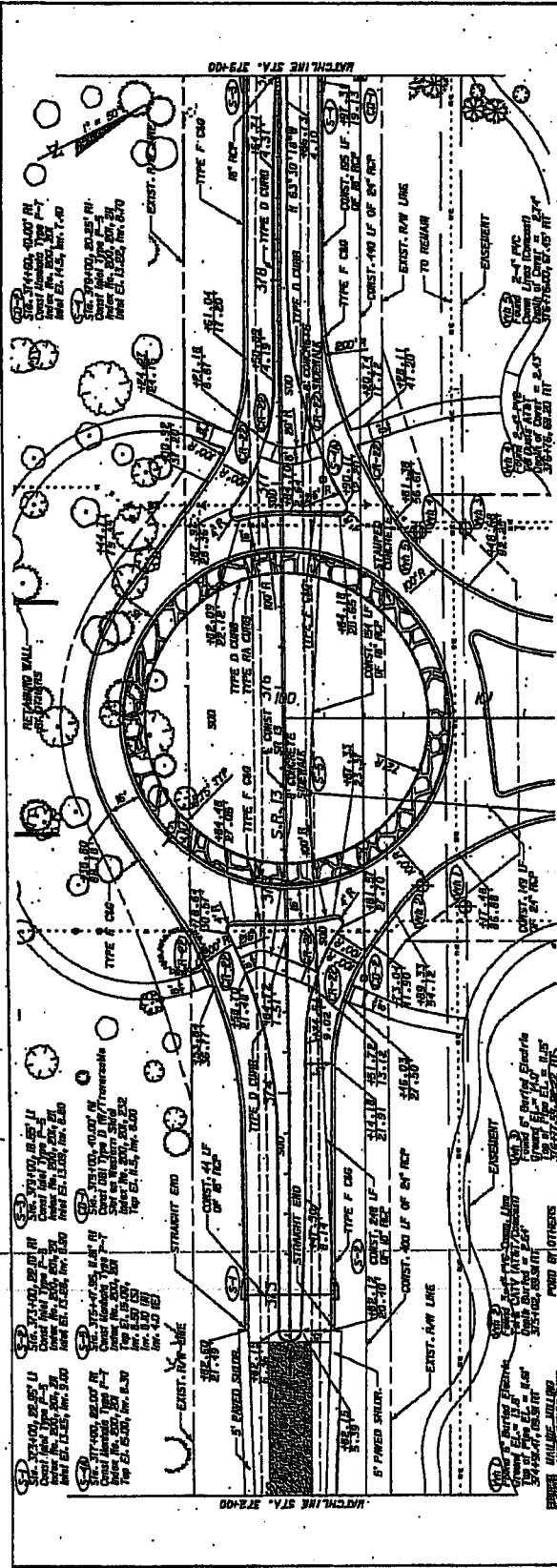
1. BENCHMARK DATA IS RWD 025A.
2. BUILDINGS TO BE REMOVED BY OTHERS UNLESS OTHERWISE NOTED.
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTOR UNITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
4. ANY PUBLIC LAND BORDER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY A CORNER MONUMENT AS IN UNDERGROUND RECORDS. THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
5. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.



<b>PROJECT LAYOUT</b>		SHEET NO. 7
RWD NO.	015	OWNER
ST. JOHN'S		
FEDERAL PROJECT ID		N/A
REVISIONS	DATE	BY







PLAN & PROFILE  
SHEET 3

DATE: 013 ST. JOHNS N/A

Hand Signs  
311 Main Street  
Riverside, CA 92501  
Tel: (951) 514-1111  
Fax: (951) 514-1112

REVISIONS

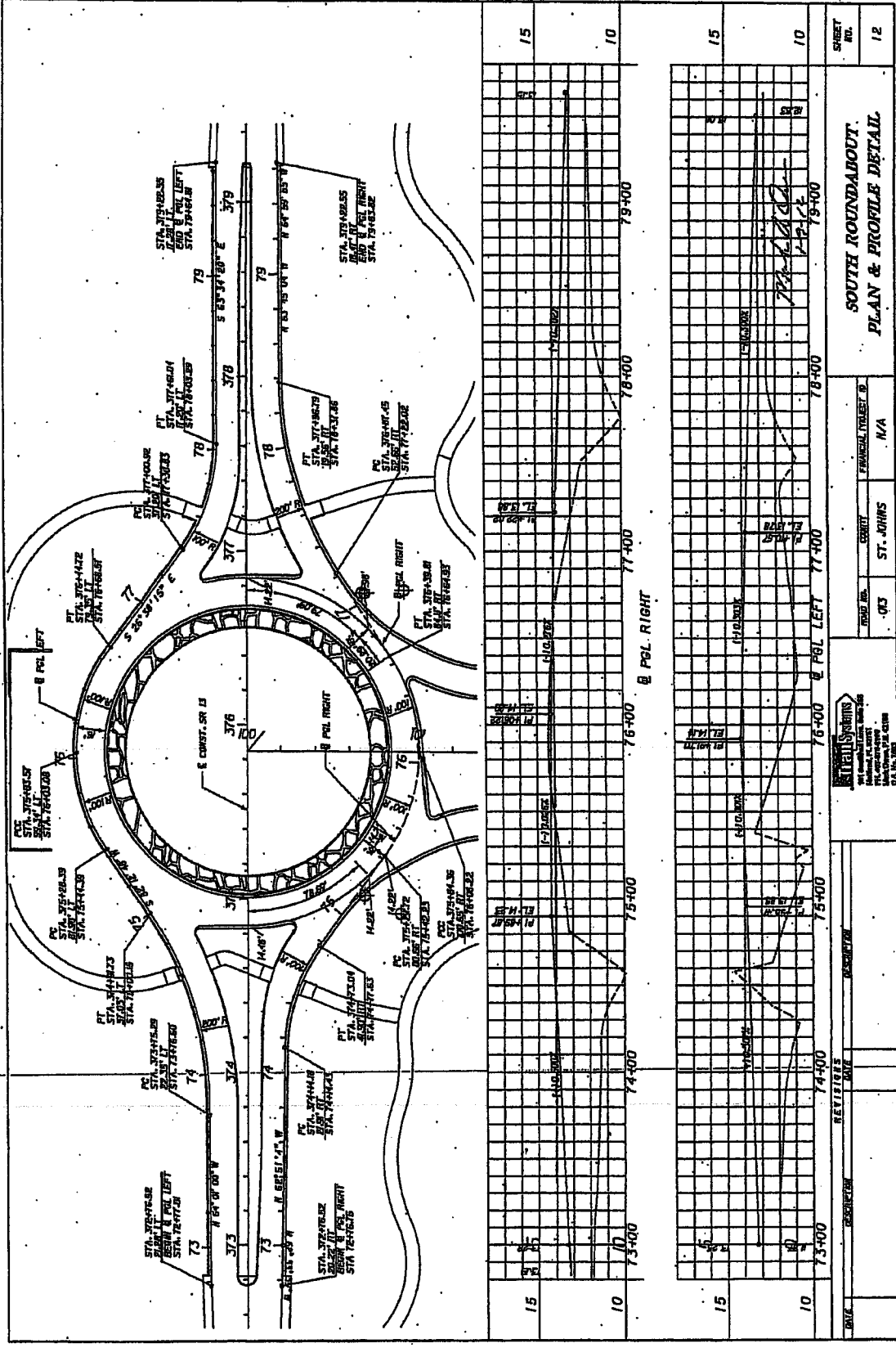
NO.	DESCRIPTION	DATE
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2	REVISED FOR	01/20/00
3	REVISED FOR	01/25/00
4	REVISED FOR	02/01/00
5	REVISED FOR	02/05/00

DATE	DESCRIPTION	DATE	DATE	DATE	SHEET NO.
01/15/00	ISSUED FOR PERMITS	01/20/00	01/25/00	02/01/00	9
02/05/00	REVISED FOR	02/10/00	02/15/00	02/20/00	10
02/25/00	REVISED FOR	03/01/00	03/05/00	03/10/00	15
03/15/00	REVISED FOR	03/20/00	03/25/00	04/01/00	20

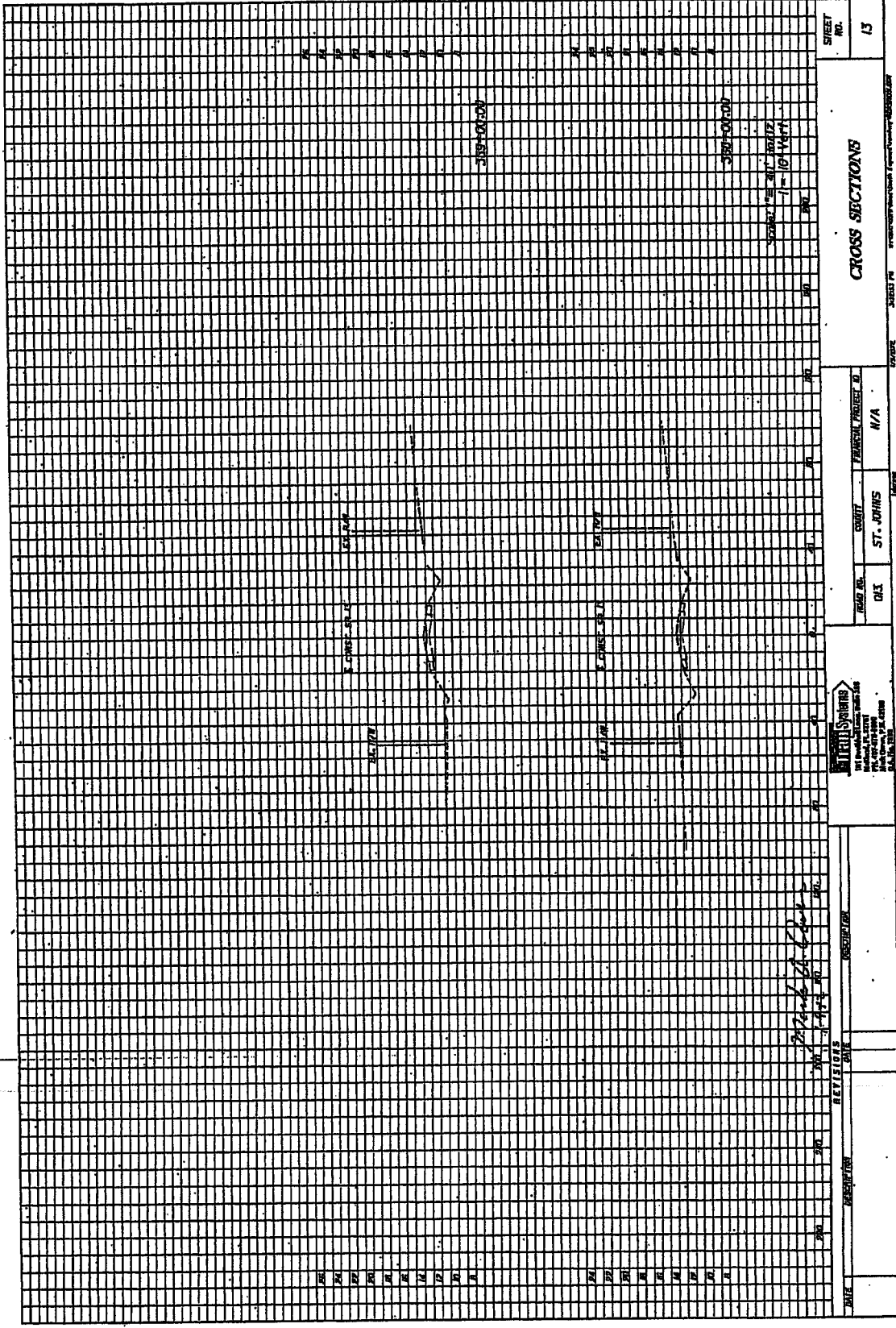




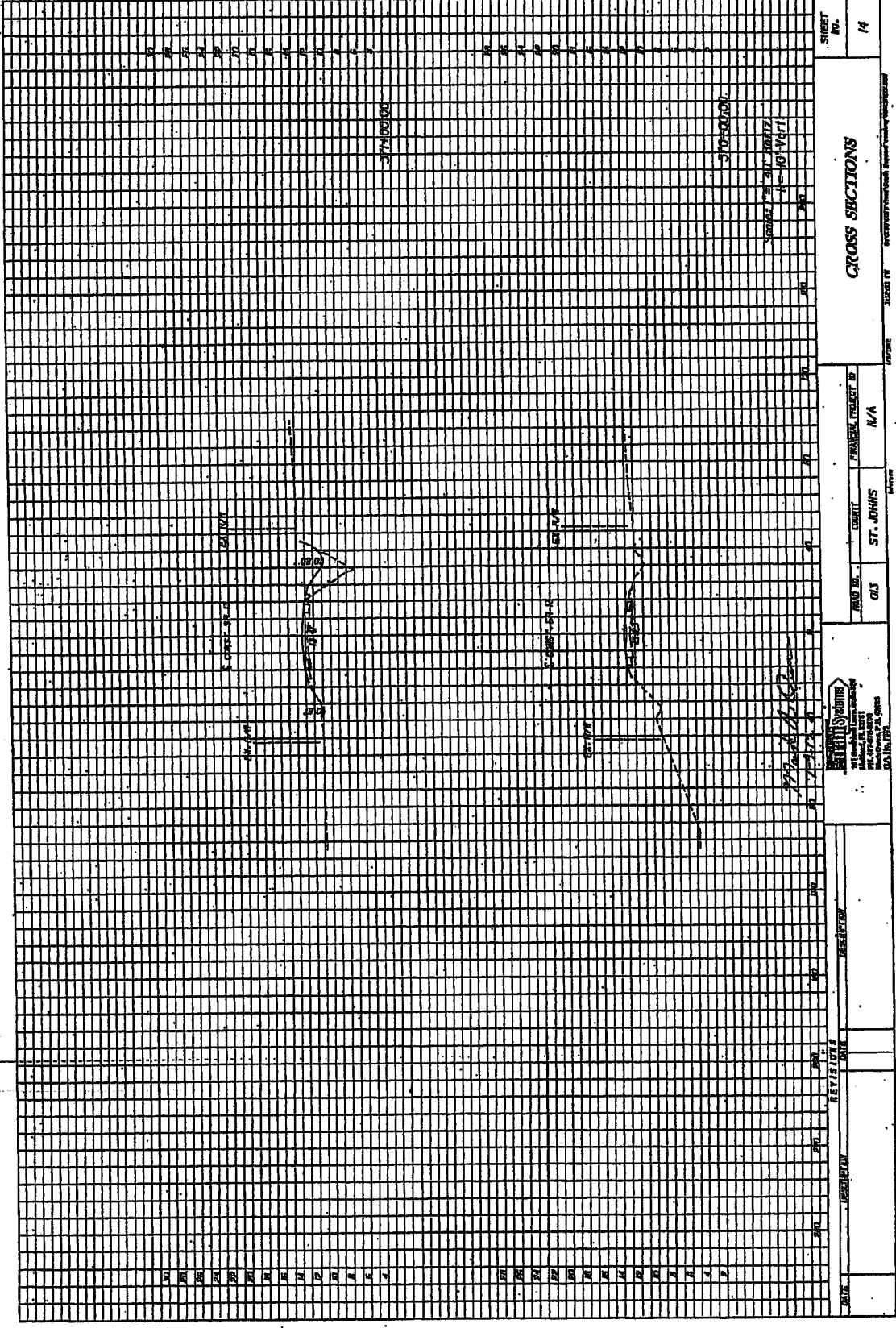
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 63.003, P.L.C.



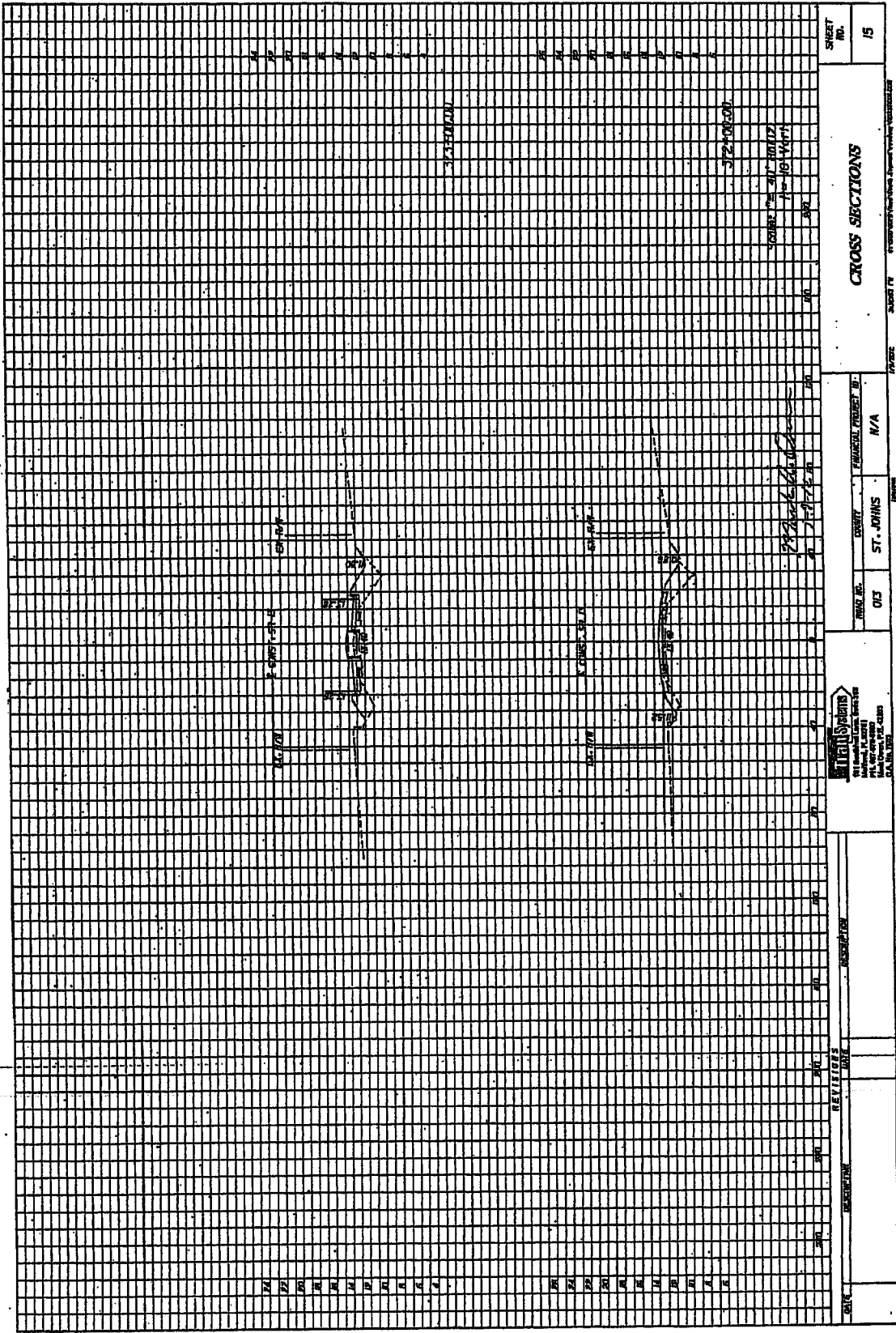
DATE		REVISIONS	PROJECT NO.	003	DESIGNER	ST. JOHNS	FINANCIAL TRAILER ID	N/A	SHEET NO.	12
DRAWN		DATE	PROJECT NO.	003	DESIGNER	ST. JOHNS	FINANCIAL TRAILER ID	N/A	SOUTH ROUNDABOUT. PLAN & PROFILE DETAIL	



DATE		REVISIONS		DESCRIPTION		 ST. JOHN'S COUNTY ENGINEERING DEPARTMENT 100 WEST 10TH AVENUE ST. JOHN'S, ARIZONA 85086		ROAD NO. <b>043</b> COUNTY <b>ST. JOHN'S</b> FINANCIAL PROJECT ID <b>N/A</b>		SHEET NO. <b>13</b>	
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DATE		REVISIONS		DESCRIPTION		PROJECT NO.		SHEET NO.	
									14
ROAD NO. 013 COUNTY ST. JOHNS PROJECT NO. N/A				<b>CROSS SECTIONS</b> <small>STATION 1+00 TO 2+00</small>					
DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: <i>[Date]</i>									



SHEET NO. 15

CROSS SECTIONS

COUNTY ST. JOHNS  
R/W NO. 013  
FURNISHED FOR BY N/A  
DATE 1/15/2012



REVISIONS

DESCRIPTION

DATE 1/15/2012

SCALE

PROJECT NO.

PROJECT NAME

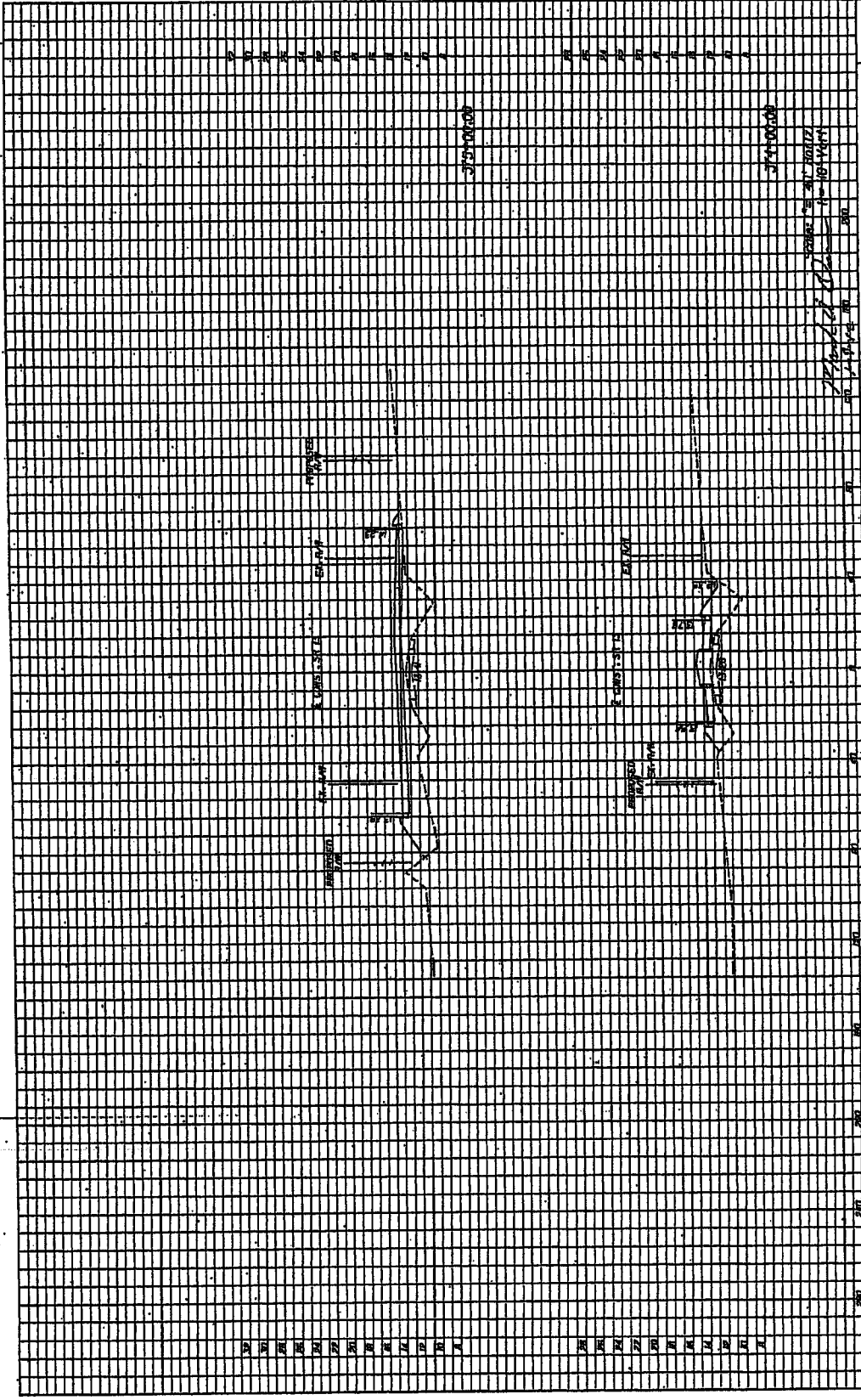
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PROJECT DRAWING NO.

PROJECT SHEET NO.

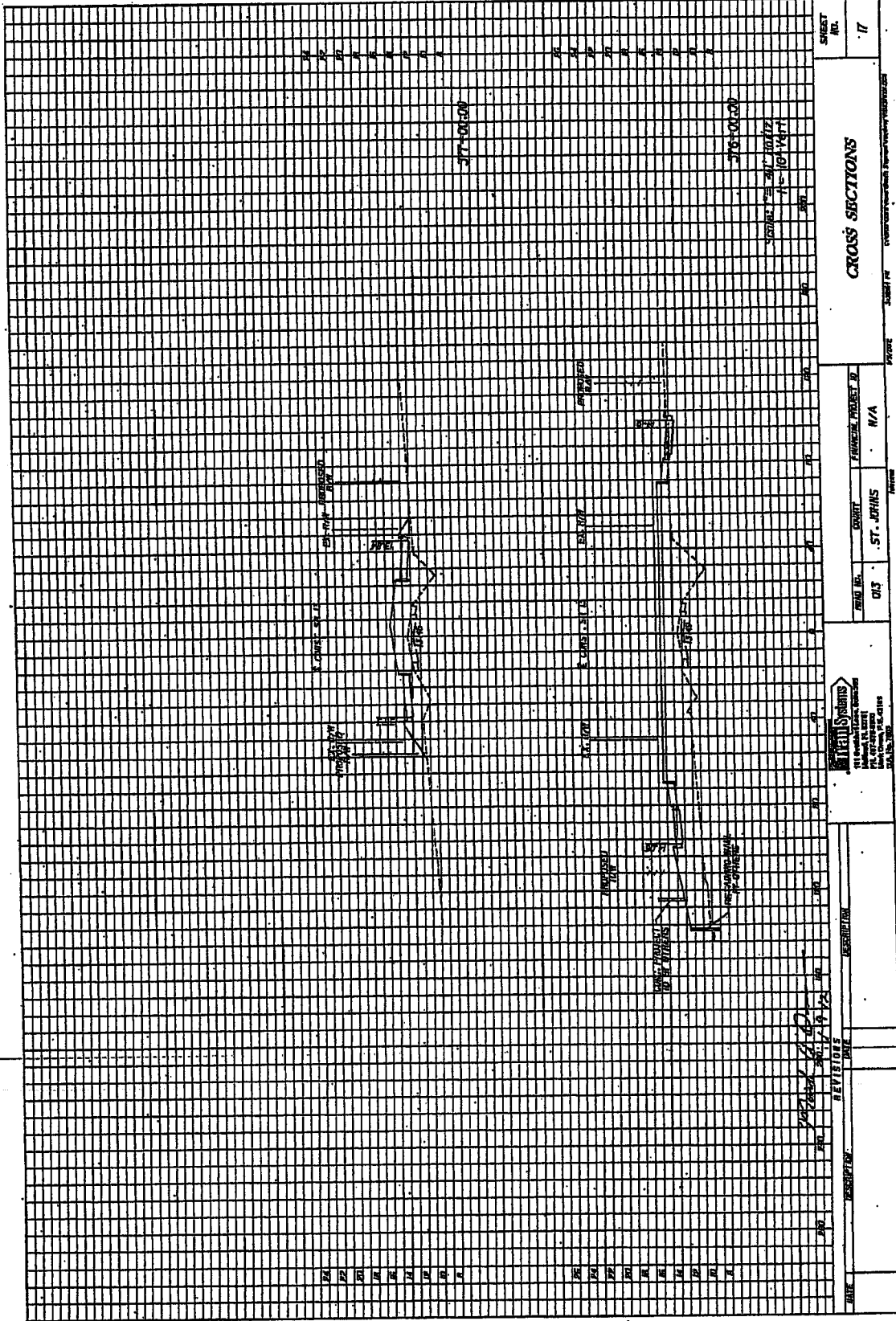
PROJECT TOTAL SHEETS





		ROAD NO. <b>013</b>	COUNTY <b>ST. JOHNS</b>	FEDERAL PROJECT ID <b>N/A</b>	SHEET NO. <b>16</b>
REVISIONS NO.      DATE      DESCRIPTION		CROSS SECTIONS			

DATE PLOTTED: 11/14/2013 10:54:11 AM  
 PLOTTER: HP DesignJet 2445



SHEET NO. 17

CROSS SECTIONS

DATE: 03/17/19  
 DRAWN BY: ST. OPKHS  
 PROJECT NO: N/A

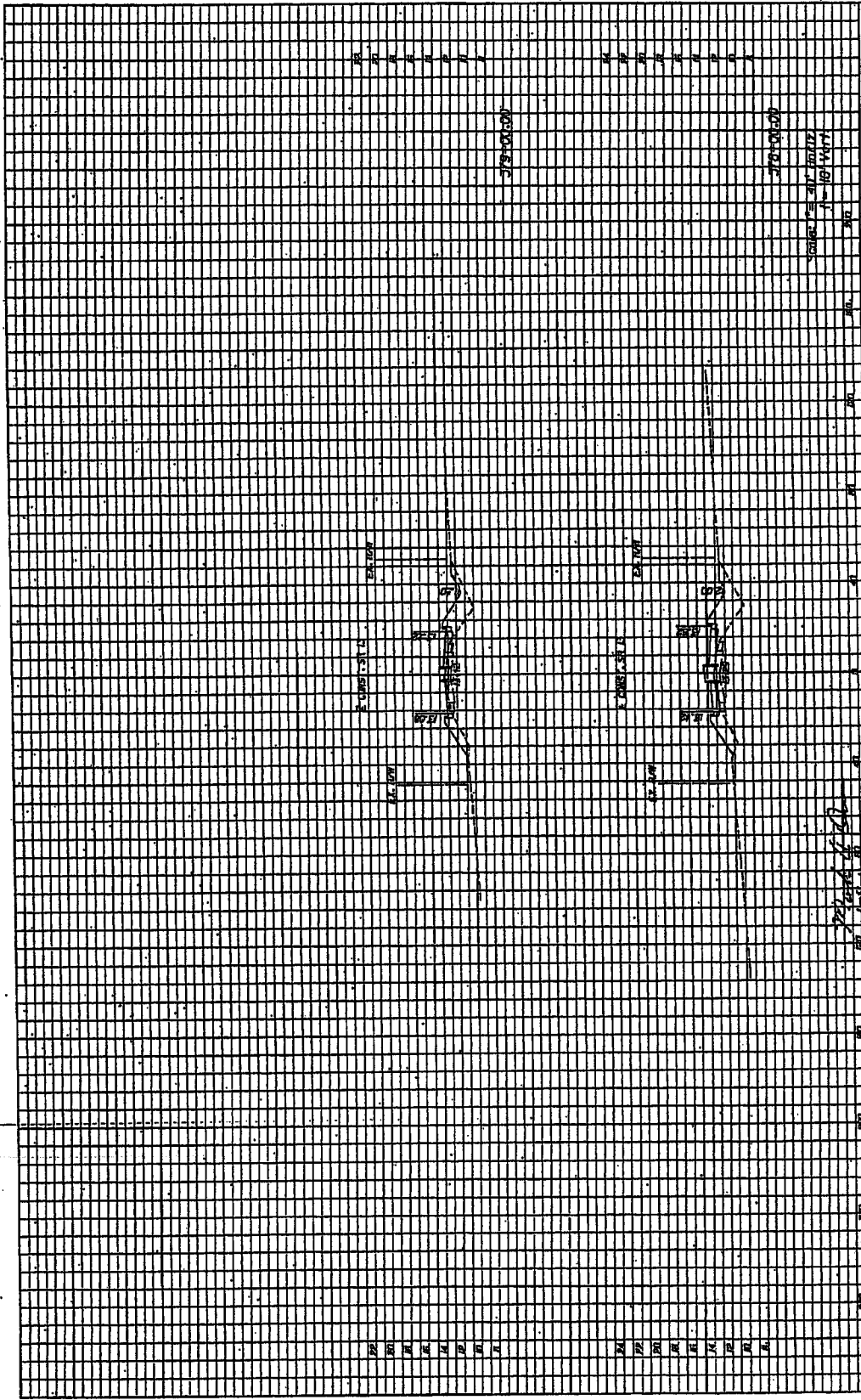
**ST. OPKHS**  
 111 South Main Street  
 Portland, ME 04101  
 Tel: 603.763.4119  
 Fax: 603.763.4190


DESCRIPTION

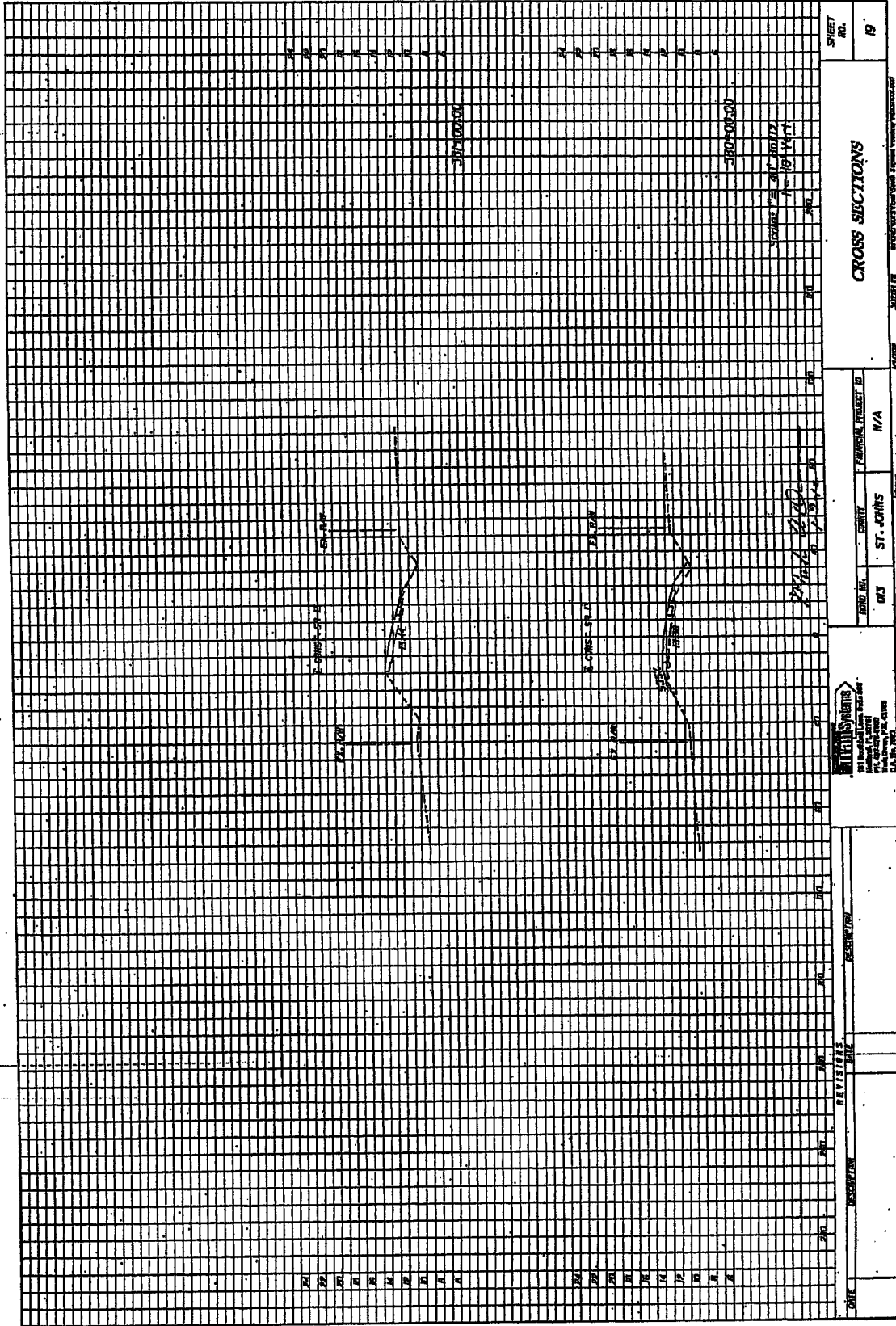
REVISIONS

DESCRIPTION

DATE



DATE		REVISION		DESCRIPTION				SHEET NO. <b>18</b> OF <b>18</b>
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	<b>CROSS SECTIONS</b> PROJECT NO. <b>18</b> DRAWN BY <b>18</b>
								COUNTY <b>WARREN</b> DISTRICT <b>N/A</b> PROJECT <b>18</b> DRAWN BY <b>18</b>





1.0 SITE DESCRIPTION

1.4 Methods of Construction Activities

The project involves the construction of 2 canal-abutment structures into the middle of SR 13 as specified in the construction plans. The project involves a north-south road, about 100 feet wide, with a north-south intersection of S.R. 13 and S.R. 16. This north-south road is located in the north-south canal right-of-way. The project is located in St. Johns County, Florida.

1.5 Sequence of Major Soil Disturbing Activities

In the Section 104 Erosion Control Plan, the Contractor shall provide a detailed sequence of construction for all construction activities. The Contractor shall follow the sequence of major activities described below, unless the Contractor proposes a different sequence which is approved by the Engineer.

For each construction phase, the Contractor shall include/prepare controls and monitoring procedures for the construction phase. Runways for material control only after all upstream areas are stabilized.

Phase I

- a. Maintain traffic on existing pavement.
- b. Construct outside widening of SR 13 and outside sections of new runways (including side streets and driveway tie-ins).
- c. Construct temporary access roads and other temporary facilities.
- d. Complete construction of all drainage systems within work zone.

Phase II

- a. Shift traffic to temporary pavement/new construction areas, completed in steps 1, b, and c.
- b. Construction of roundabouts as shown in steps 2 plans.

Phase III

- a. Construct permanent median areas.
- b. Construct final construction of SR 13 and WD roadways.
- c. Place permanent pavement markings on the EO and WD roadways.

1.6 Area Estimates

Total project area: 6.75 acres.  
Total area to be disturbed: 6.75 acres.

1.4 Runoff Data

- Runoff Coefficient for Impervious Areas: C = 0.95
- Runoff Coefficient for Pervious Areas: C = 0.25
- Runoff Coefficient for Wet Areas: C = 1.00

Weighted Runoff Coefficients

- (Runoff Coefficient) (Area) = 0.40 or 0.50
- (Runoff Coefficient) (Area) = 0.20 or 0.50
- (Runoff Coefficient) (Area) = 0.40 or 0.50

1.4 Soils Data  
The types of soils encountered are classified according to the National Resources Conservation Service Survey for Southeast Florida and are listed in the following table.

SOIL NO.	SOIL NAME	HYDROLOGIC GROUP
1	Coastal Plain Sand	SD
2	Coastal Plain Sand	SD
3	Coastal Plain Sand	SD
4	Coastal Plain Sand	SD
5	Coastal Plain Sand	SD
6	Coastal Plain Sand	SD

1.4 Outfall Information

The outfall is located in the project. No outfalls are being altered during the project. The St. Johns River is the water body and is encountered along the project and is discharged into the following locations:

1. CBC South Canal - about 1.5 miles south of the project.
2. CBC North Canal - about 1.5 miles north of the project.

1.9 Site Maps

The construction plans are being used as the site map. The location of the outfall information is described below. The sheet numbers for the plan sheets referenced are identified on the Map Sheet of these construction plans.

1. Runway widening on the Division Road.
2. Runway widening on the Division Road.
3. Runway widening on the Division Road.
4. Runway widening on the Division Road.
5. Runway widening on the Division Road.
6. Runway widening on the Division Road.
7. Runway widening on the Division Road.
8. Runway widening on the Division Road.
9. Runway widening on the Division Road.
10. Runway widening on the Division Road.

- Surface Waters: This project drains to the St. Johns River.
- Discharge Points in Surface Waters: Discharge points are shown on the Plan Sheets.

1.4 Receiving Waters

See item 1.4 for the outfall locations and receiving water areas.

2.0 CONTROL

2.4 Erosion And Sediment Controls

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed stabilization and siltation practices based on the Contractor's proposed Trench Control Plan. The following recommended guidelines are based on the Trench Control Plan (1991) outlined in the Construction Control Plan. The Contractor shall include in the Construction Control Plan the following: 1. The Section 104 Erosion Control Plan, subject to approval of the Engineer. At work progress, the Contractor shall modify the plan to adapt to seasonal variations, changes in construction activities, and the need for better practices.

2.5 Stabilization Practices

In the Section 104 Erosion Control Plan, the Contractor shall describe the stabilization practices proposed to control erosion. The Contractor shall include in the Construction Control Plan the following: 1. The Section 104 Erosion Control Plan, subject to approval of the Engineer. At work progress, the Contractor shall modify the plan to adapt to seasonal variations, changes in construction activities, and the need for better practices.

Artificial coverings in accordance with FOOT Specification Section 104.

- Seed and mulch, and in accordance with Specification Section 104.

Permanent

- Sed in accordance with Specification Section 104.

2.4 Structural Practices

In the Section 104 Erosion Control Plan, the Contractor shall describe the proposed structural practices to control or trap sediment. The Contractor shall include in the Construction Control Plan the following: 1. The Section 104 Erosion Control Plan, subject to approval of the Engineer. At work progress, the Contractor shall modify the plan to adapt to seasonal variations, changes in construction activities, and the need for better practices.

Temporary

- Silt fence in accordance with Design Standard 102 and Specification Section 104.

- Floating siltation barrier in accordance with Design Standard 103 and Specification Section 104.

- Sandbags to control erosion and trap silt.

- Inlet protection in accordance with Design Standard 102, Permanent.

- Sed.

2.4 Stormwater Management

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



DATE	DESCRIPTION	REVISIONS
1-9-02		

DESIGN NO.	013	DRAWN BY	ST. JOHNS
CHECKED BY		PROJECT NO.	N/A

**2.2 Other Controls**

- 2.2.1 **Waste Disposal**  
In the Section 04 Erosion Control Plan, the Contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed method shall include a description of the following:
  - Providing litter control and collection within the project during construction activities.
  - Disposing of all fertilizer or other chemical containers according to EPA's standard protocols as detailed by the manufacturer.
  - Disposition of solid materials including building and construction materials off the project site but not to erosion control or materials.
- 2.2.2 **Off-Site Vehicle Tracking & Dust Control**  
In the Section 04 Erosion Control Plan, the Contractor shall describe the proposed methods for minimizing off-site vehicle tracking of materials and generating dust. The proposed method shall include at least the following, unless otherwise approved by the Engineer:
  - Covering loaded haul trucks with tarpaulins.
  - Removing excess dirt from paved areas daily.
  - Using roadway sweepers during dust generating activities such as excavation and milling operations.
- 2.2.3 **State and Local Regulations For Waste Disposal, Sanitary Sewer, or Septic Tank Regulations**  
In the Section 04 Erosion Control Plan, the Contractor shall describe the proposed methods for compliance with applicable state and local regulations for waste disposal, sanitary sewer or septic systems.
- 2.2.4 **Fertilizers and Pesticides**  
In the Section 04 Erosion Control Plan, the Contractor shall describe the procedures for applying fertilizers and pesticides. The proposed methods shall include at least the following:
  - Substances shall be applied only to areas specified in the specifications; either Section 070 or 071 of the Specifications.
  - Tests Substances
  - The Contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.
- 2.2.7 **Approved State and Local Plans and Permits**  
Approved State and Local Plans and Permits.

**3.0 MAINTENANCE**

- In the Section 04 Erosion Control Plan, the Contractor shall provide a plan describing the maintenance of erosion control measures, comply with the following:
  - **Site Erosion Control**  
The Contractor shall maintain all erosion control structures at least 12 month intervals.

*Mark D. Quinn*  
1-9-12


**2.3 Silted/Floating Turbidity Barriers**  
The Contractor shall maintain a Silted Turbidity Barrier at the existing structure. The Contractor shall maintain a Silted Turbidity Barrier at the existing structure.

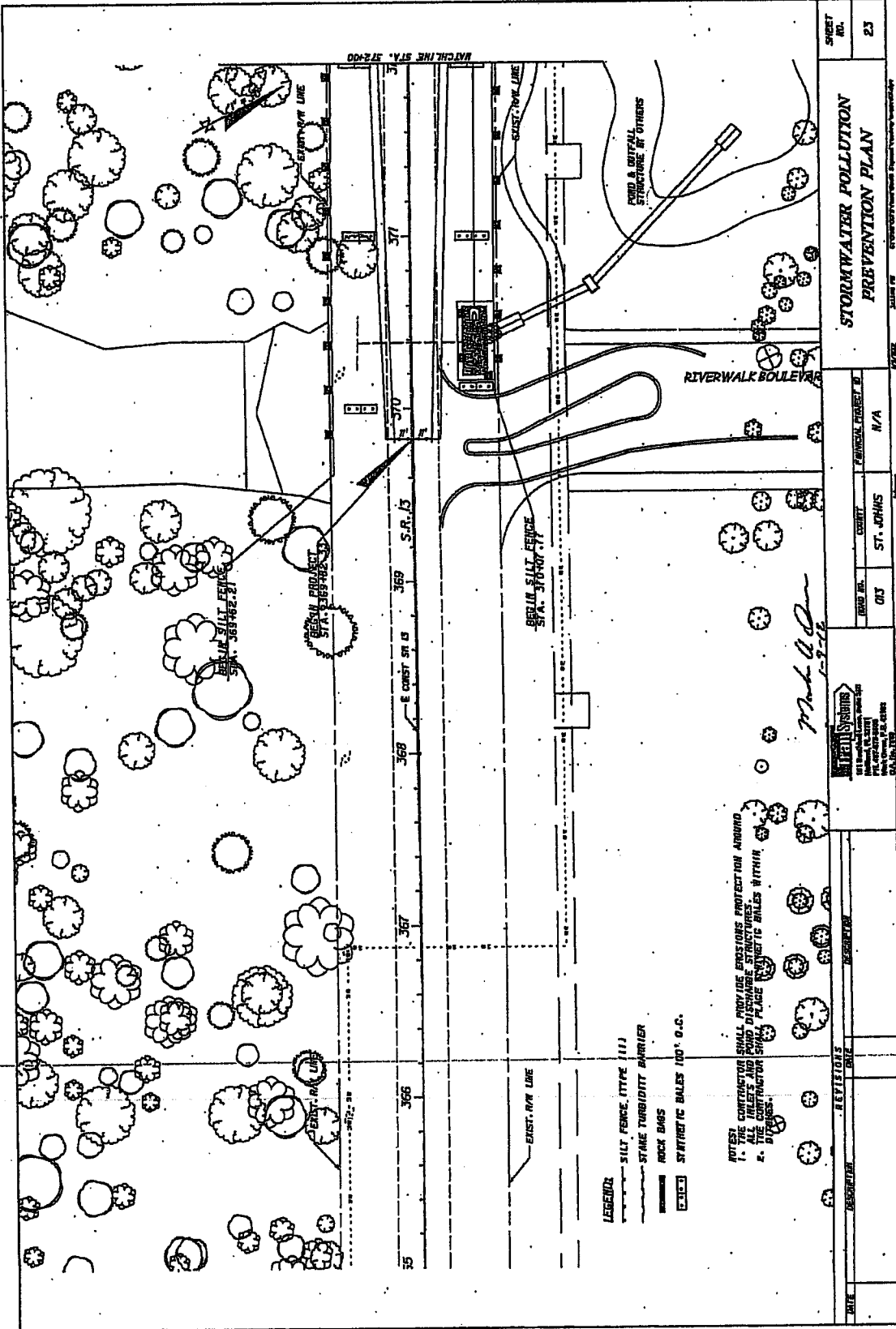
**4.0 INSPECTIONS**

- Qualified personnel shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater. To ensure the Contractor shall install and maintain rain gauges and record data regularly during storms. The Contractor shall inspect the site for erosion control measures at least once every month. The Contractor shall also inspect that controls installed in the field agree with the latest Stormwater Pollution Prevention Plan to provide erosion control measures at:
1. Disturbed areas of the site that have not been fully stabilized.
  2. Disturbed areas that have not been stabilized within 7 days after being seeded and mulched.
  3. Areas used for storage of materials that are exposed to precipitation.
  4. Stormwater control structures.
  5. Stormwater management systems.
  6. Locations where vehicles enter or exit the site.
  7. Locations where materials are stored.
- The Contractor shall initiate repairs within 24 hours of inspections that indicate items that are not in good working order.
- If inspections indicate that the installed stabilization and erosion control measures are not working, the Contractor shall provide additional measures, as approved by the Engineer.

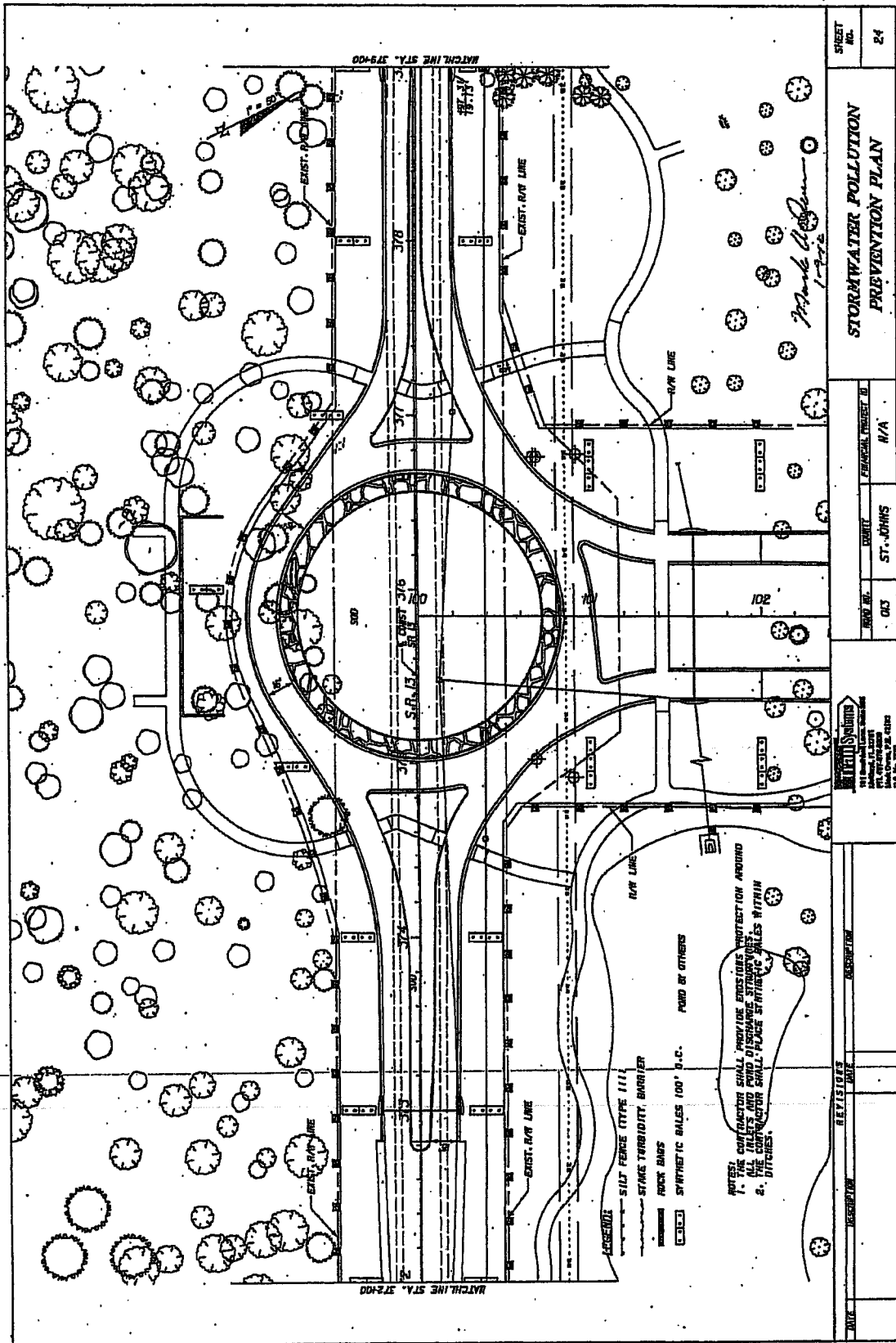
**5.0 NON-STORMWATER DISCHARGES**

- In the Section 04 Erosion Control Plan, the Contractor shall identify all anticipated non-stormwater discharges (except those from fire fighting activities, maintenance operations, or other non-stormwater discharges) that may occur at the project site and shall describe the measures to prevent pollution of these non-stormwater discharges.
- **Dust Control**  
The Contractor shall develop in Section 04 Erosion Control Plan a dust control plan and implement action to prevent any dust-generating activities.
  - **Equipment Washing**  
The Contractor shall develop in Section 04 Erosion Control Plan an effective plan to control equipment washwater and other areas of pollution from equipment cleaning processes, and implement action to prevent any dust-generating activities.
  - **Hazardous Material Spill**  
The Contractor shall develop in Section 04 Erosion Control Plan an effective plan to control in the event any hazardous materials should spill and remedial action to prevent any dust-generating activities.
- In the Section 04 Erosion Control Plan, the Contractor shall identify all anticipated non-stormwater discharges (except those from fire fighting activities, maintenance operations, or other non-stormwater discharges) that may occur at the project site and shall describe the measures to prevent pollution of these non-stormwater discharges.

DATE		REVISIONS		PROJECT NO.		SHEET NO.		
						<b>STORMWATER POLLUTION PREVENTION PLAN</b>	22	
				DRAWN BY	ST. JOHNS	CHECKED BY	N/A	
								SCALE
				PROJECT NO. <b>015</b>				PROJECT NAME







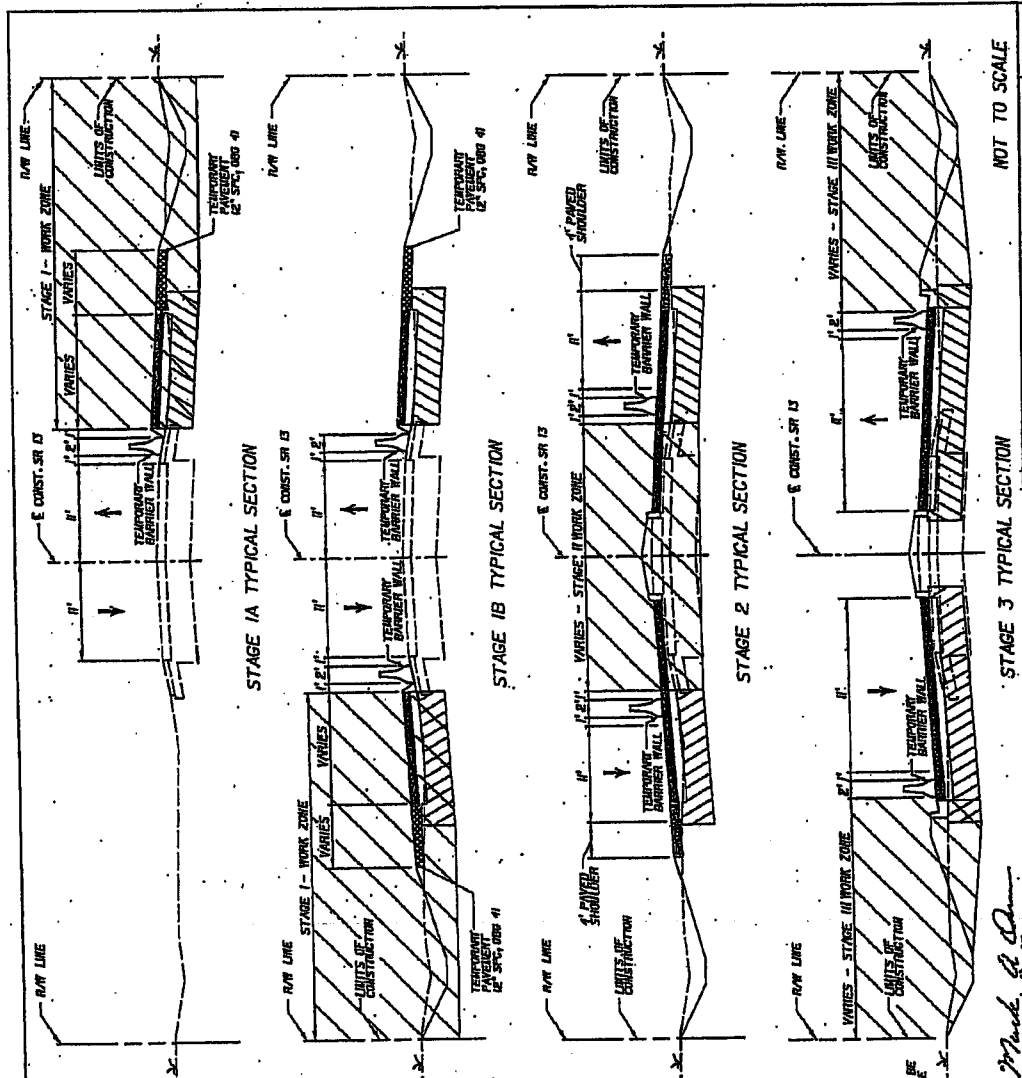
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STORMWATER POLLUTION PREVENTION PLAN	
DATE	DESCRIPTION
DESIGNED BY	ST. JOHNS
CHECKED BY	N/A
PROJECT NO. 102 PROJECT NAME CONTRACTOR DATE	
REVISIONS NO. DATE DESCRIPTION	

- LEGEND**
- SILT FENCE (TYPE III)
  - STAKE TURBIDITY BARRIER
  - ROCK BAGS
  - SYNTHETIC BALES 100' S.C. POND OR OTHERS

NOTE: THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AROUND ALL INLETS AND POND DISCHARGE STRUCTURES. THE CONTRACTOR SHALL PLACE SYNTHETIC BALES WITHIN 5' DITCHES.

*Mark Chapman*





**GENERAL NOTES**  
 1. ALL LEAD-IN NOT SHOWN PER MIXED 000, 000 AND AS SHOWN IN TRAFFIC CONTROL PLANS.

**STAGE 1A CONSTRUCTION**  
 SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. MAINTAIN TRAFFIC ON EXISTING PAVEMENT. ORIENT TRAFFIC TO THE RIGHT OF THE ROAD. CONSTRUCT AND RECONSTRUCT THE ROADWAY AS SHOWN IN THIS PLAN. INCLUDING APPLICATION OF TEMPORARY PAVEMENT AS INDICATED IN STAGE 1A PLANS.

**STAGE 1B CONSTRUCTION**  
 SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. MAINTAIN TRAFFIC TO THE RIGHT OF THE ROAD. CONSTRUCT AND RECONSTRUCT THE ROADWAY AS SHOWN IN THIS PLAN. INCLUDING APPLICATION OF TEMPORARY PAVEMENT AS INDICATED IN STAGE 1B PLANS.

**STAGE 2 CONSTRUCTION**  
 SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC TO TEMPORARY PAVEMENT AND RECONSTRUCT AREAS COMPLETED IN STAGE 1. COMPLETE RECONSTRUCTION AND RECONSTRUCTION OF STAGE 1 AND RECONSTRUCT CONSTRUCTION OF ROADWAYS AS SHOWN IN STAGE 2 PLANS.

**STAGE 3 CONSTRUCTION**  
 SET UP APPROPRIATE TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC TO SR 15 INTO FINAL CONFIGURATION. COMPLETE OUTSIDE CONSTRUCTION OF STAGE 3 AND RECONSTRUCT AREAS INCLUDING INSTALLATION OF CURB & GUTTER AND REMOVAL OF TEMPORARY PAVEMENT.

- TEMPORARY PAVEMENT FROM PREVIOUS PHASE
- TEMPORARY PAVEMENT TO BE PLACED IN CURRENT PHASE
- Work Area
- TRAFFIC FLOW

NOT TO SCALE

DATE	DESCRIPTION	REVISION	BY	DESCRIPTION

DESIGNER	ST. JOHNS
CHECKER	N/A
APPROVED	

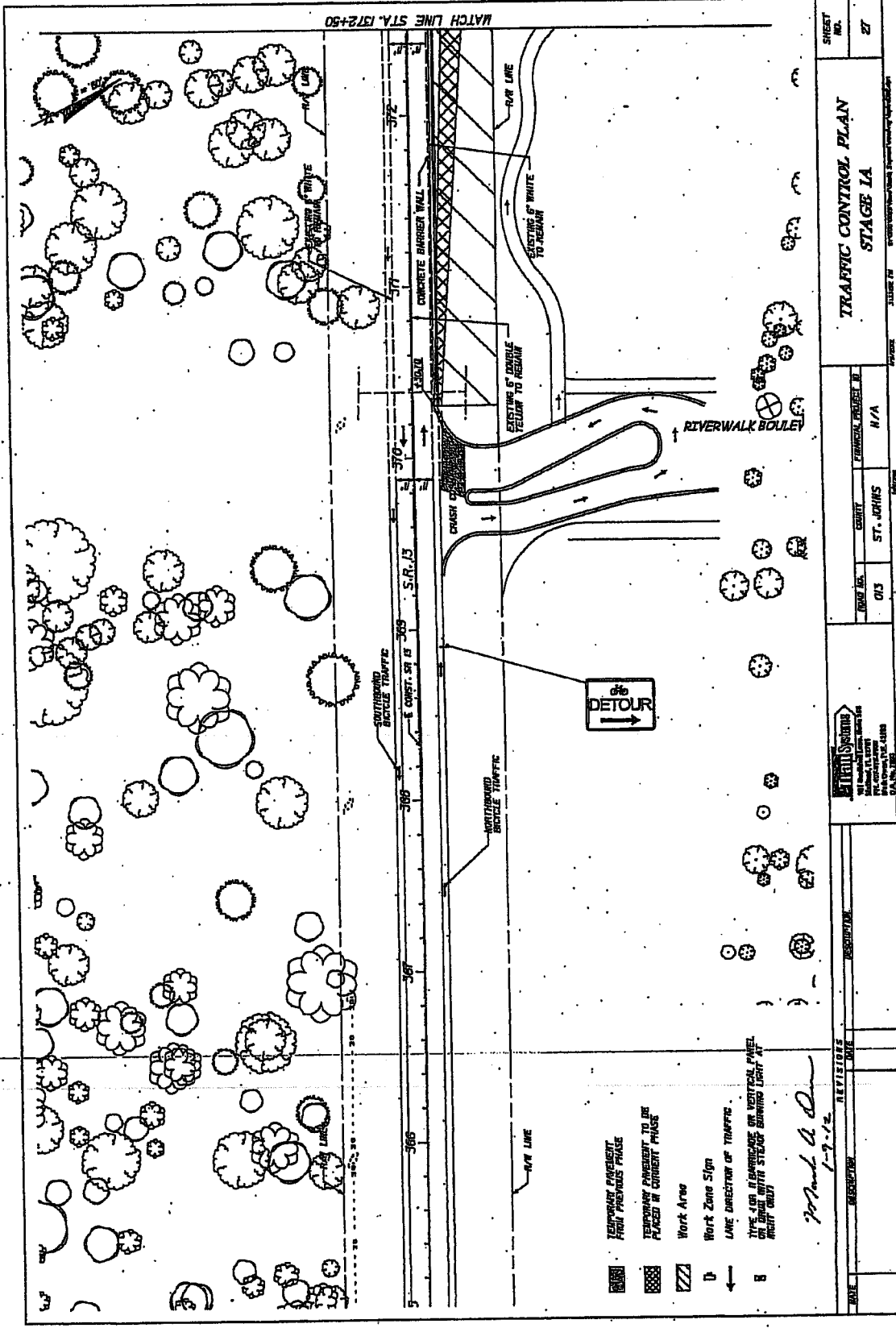
  

PROJECT NO.	
CONTRACT NO.	
CONTRACT DESCRIPTION	

TRAFFIC CONTROL PLAN  
 TYPICAL SECTIONS

SHEET NO. 25



- TEMPORARY PAVEMENT FROM PREVIOUS PHASE
- TEMPORARY PAVEMENT TO BE PLACED IN CURRENT PHASE
- Work Area
- Work Zone Sign
- LANE DIRECTION OF TRAFFIC
- THIS USE OF SIGNAGE OR VERTICAL PANEL ON SIGNAL WITH STICKER BURNING LIGHT AT NIGHT ONLY

*John A. Quinn*  
1-9-12

DATE	DESCRIPTION	REVISION	DATE

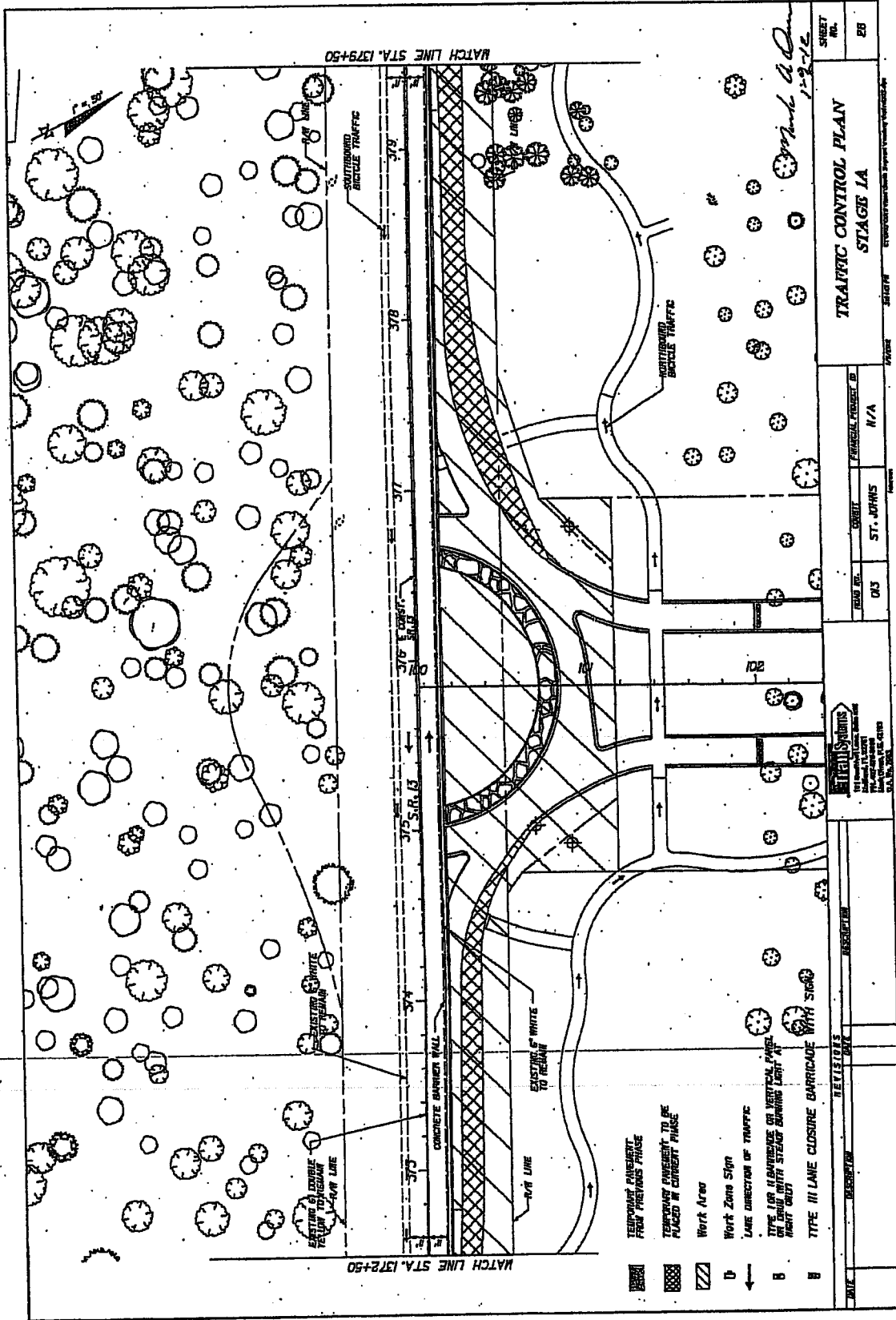
ROAD NO.	013	COUNTY	ST. JOHNS	PERMITAL CHARGE	N/A
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<small>HILL SYSTEMS 1111 HILLTOP DRIVE, SUITE 100 ST. JOHNS, MD 21151 TEL: 410-326-1000 FAX: 410-326-1001 WWW.HILLSYSTEMS.COM</small>	

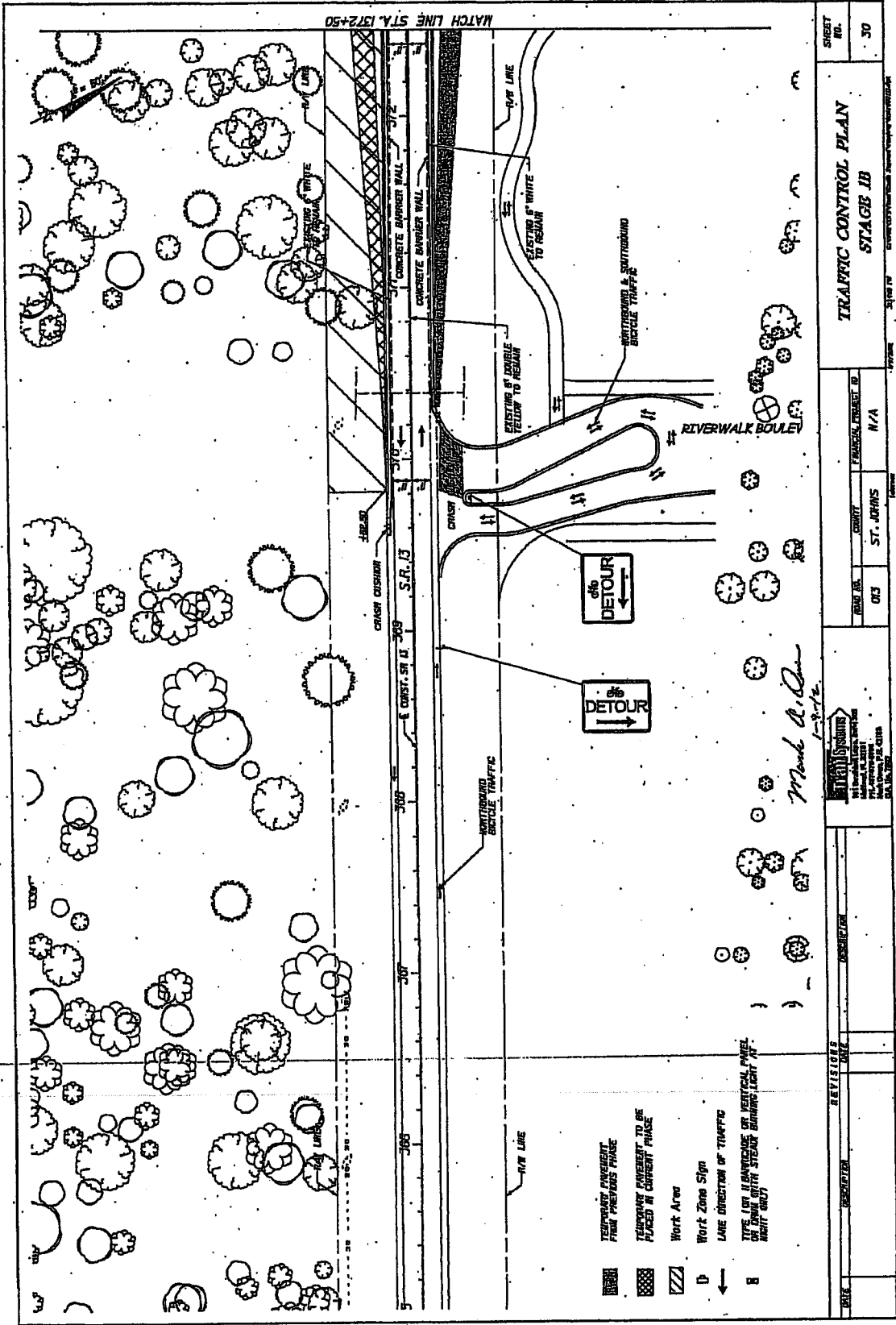
<b>TRAFFIC CONTROL PLAN</b> <b>STAGE 1A</b>	
SHEET NO.	27



- TEMPORARY PAVEMENT FROM PREVIOUS PHASE
- TEMPORARY PAVEMENT TO BE PLACED IN CURRENT PHASE
- Work Area
- Work Zone Sign
- LANE DIRECTION OF TRAFFIC
- TYPE III BARRIERS OR VERTICAL PILES ON LAND WITH STEADY BURNING LIGHT AT NIGHT ONLY
- TYPE III LANE CLOSURE BARRICADE WITH SIGN

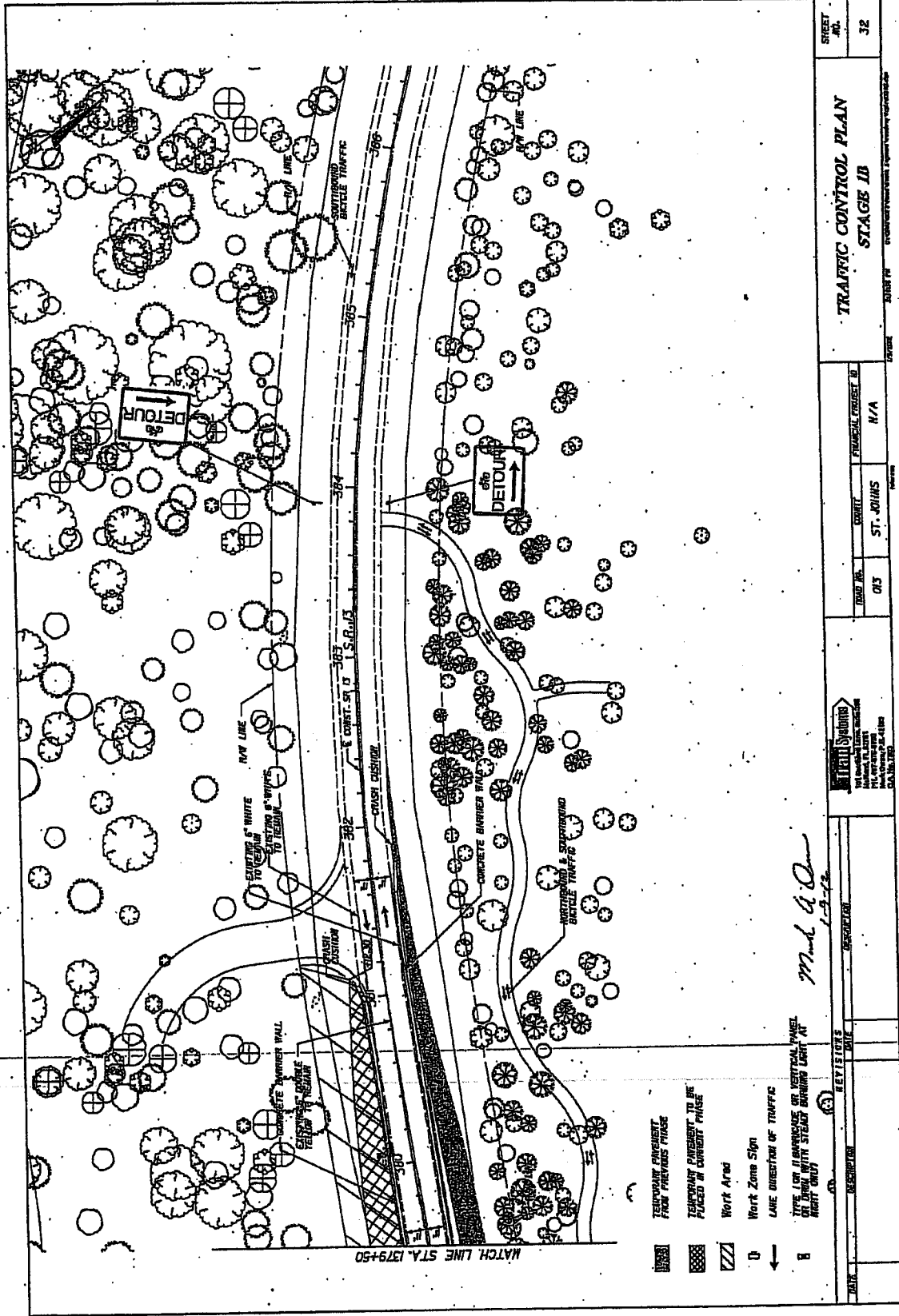
NO.	DESCRIPTION	DATE









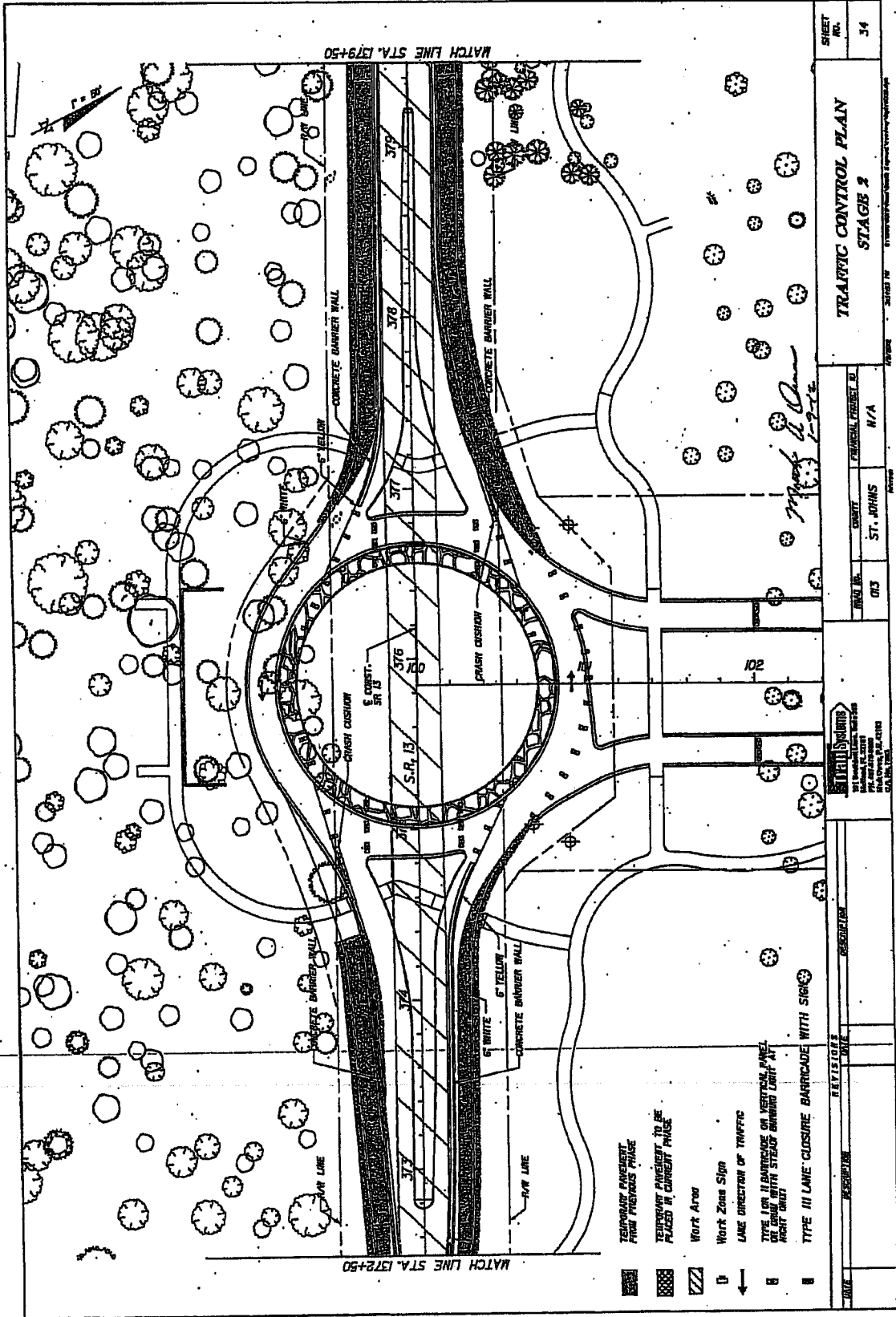


- TEMPORARY PAVEMENT FROM PREVIOUS PHASE
- TEMPORARY PAVEMENT TO BE PLACED IN CURRENT PHASE
- Work Area
- Work Zone Sign
- LANE DIRECTION OF TRAFFIC
- TYPE 1 OR II BARRIER OR VERTICAL PANEL OF TYPE WITH STEADY BURNING LIGHT AT NIGHT ONLY

*M. J. O'Connell*  
1-29-12

DATE	DESIGNER	DATE	INSPECTOR	PROJECT	FINANCIAL PROJECT ID	SHEET NO.
				ST. JOHNS	N/A	32
				<b>TRAFFIC CONTROL PLAN</b> <b>STAGE 1B</b>		





- TEMPORARY BARRICADE FROM PREVIOUS PHASE
- TEMPORARY PAVEMENT TO BE PLACED IN CURRENT PHASE
- Work Area
- Work Zone Sign
- LANE DIRECTION OF TRAFFIC
- TYPE I OR II BARRICADE OR VERTICAL PANEL TO BE PAID WITH STEADY BURNING LIGHT AT NIGHT ONLY
- TYPE III LANE CLOSURE BARRICADE WITH SIGN

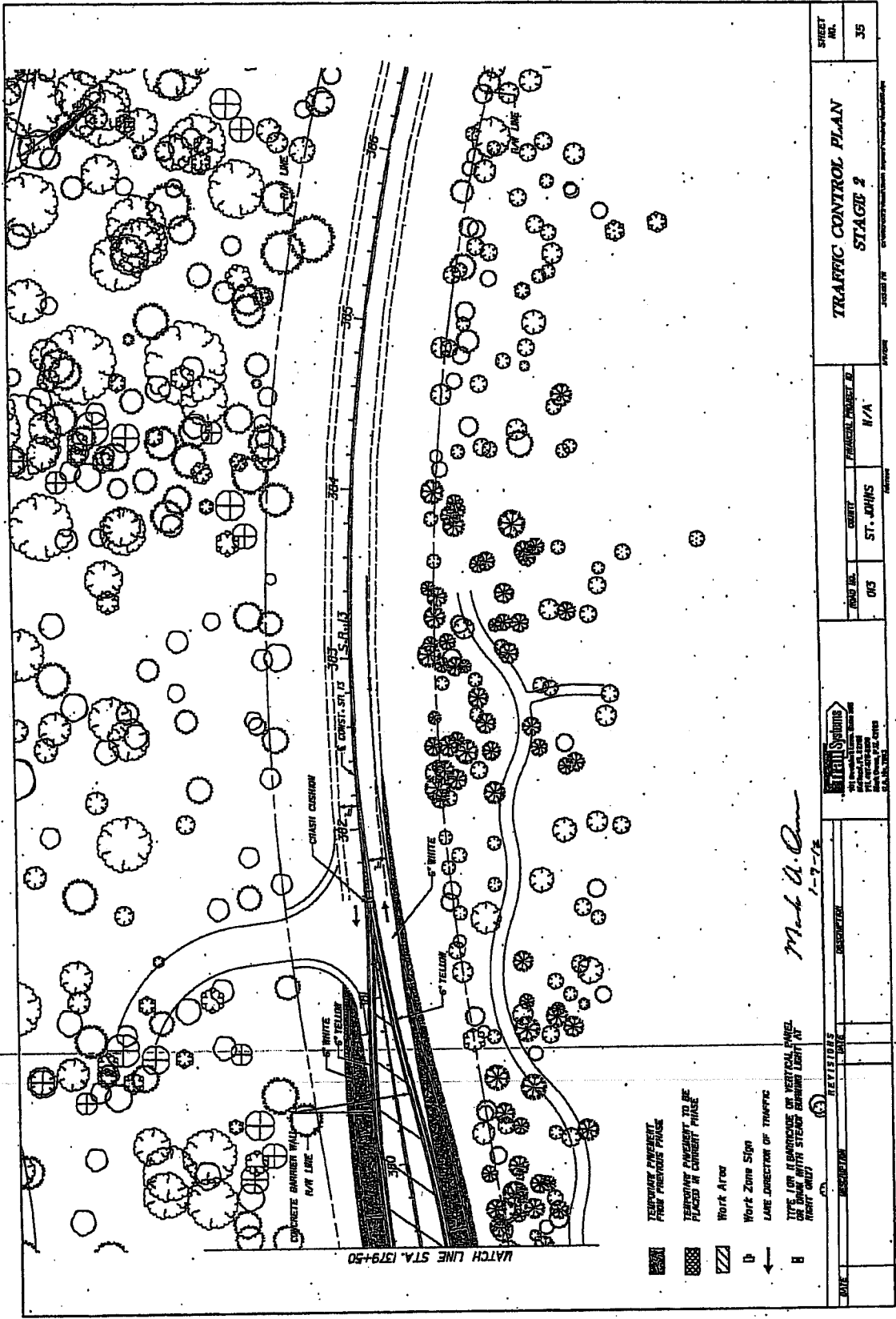
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

PROJECT NO.	013	CONTRACT	ST. JOHNS	FEDERAL PROJECT NO.	N/A
 TETRA TECH 1000 W. 10TH AVENUE DENVER, CO 80202 TEL: 303.733.1000 FAX: 303.733.1001 WWW.TETRA-TECH.COM					
<i>Mark D. Jones</i> 1/22/12					

<b>TRAFFIC CONTROL PLAN</b>		SHEET NO.	34
<b>STAGE 2</b>			

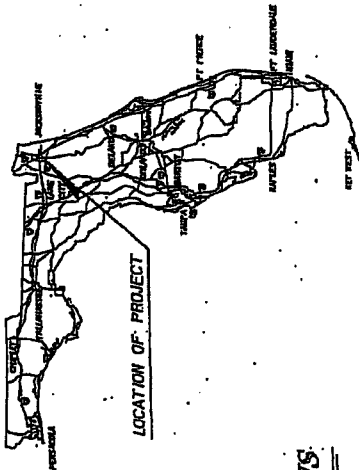


SHEET NO.		35	
ROAD NO.		003	
CITY		ST. JOHNS	
PROJECT NUMBER		N/A	
DATE		1-7-12	
DESCRIPTION		TRAFFIC CONTROL PLAN STAGE 2	

**CONTRACT PLANS**

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

**SIGNING AND PAVEMENT MARKING PLANS**



**INDEX OF SIGNING AND PAVEMENT MARKING PLANS**

- SHEET NO. 5-1
- KEY SHEET 5-2
- ST. JOHNS COUNTY (78070)
- STATE ROAD NO. 13
- SIGNING AND PAVEMENT MARKING PLANS
- CURB SIGNS

PLANS PREPARED BY  
TRANSCENTERS CORPORATION  
10000 W. WINDY HILL LANE  
SUITE 100  
FORT WORTH, TEXAS 76150  
TEL. (817) 441-4400  
FAX (817) 441-4401

NOTED THE SCALE OF THESE PLANS MAY  
HAVE CHANGED BY REPRODUCTION.

PLANS PREPARED BY  
*Mark H. Quinn*  
ENGINEER BY RECORD, MARK GREEN, P.E.  
DATE: 1-9-12  
P.L.S. NO. 4882

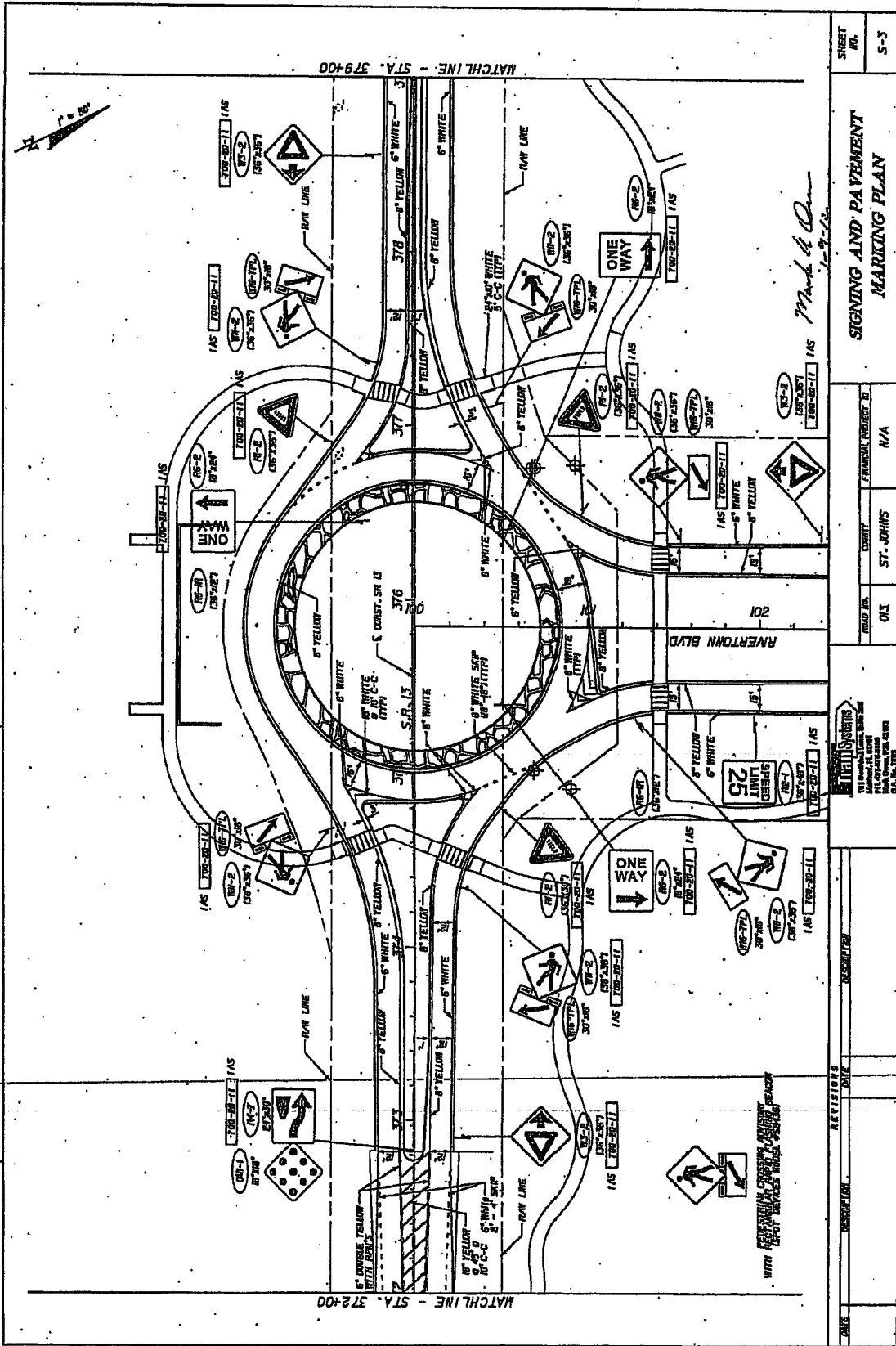
REV. SHEET	REVISIONS
DATE	DESCRIPTION

FISCAL YEAR	SHEET NO.
12	S-1

DDOT PROJECT MANAGER: CORINE B. WALKER

DATE OF PAVEMENT SURVEY: 1-9-12

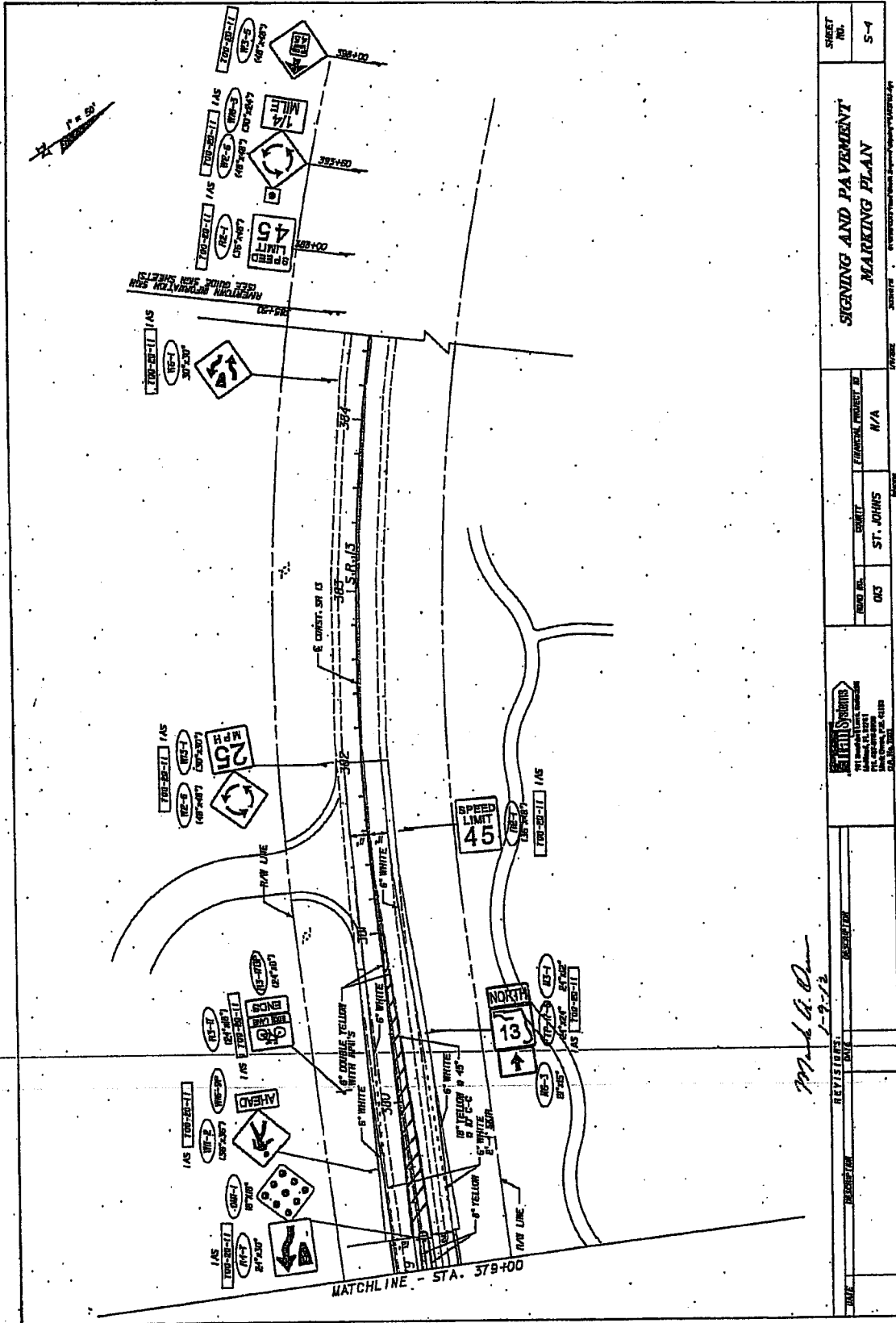




DATE	DESCRIPTION	REVISIONS	DATE

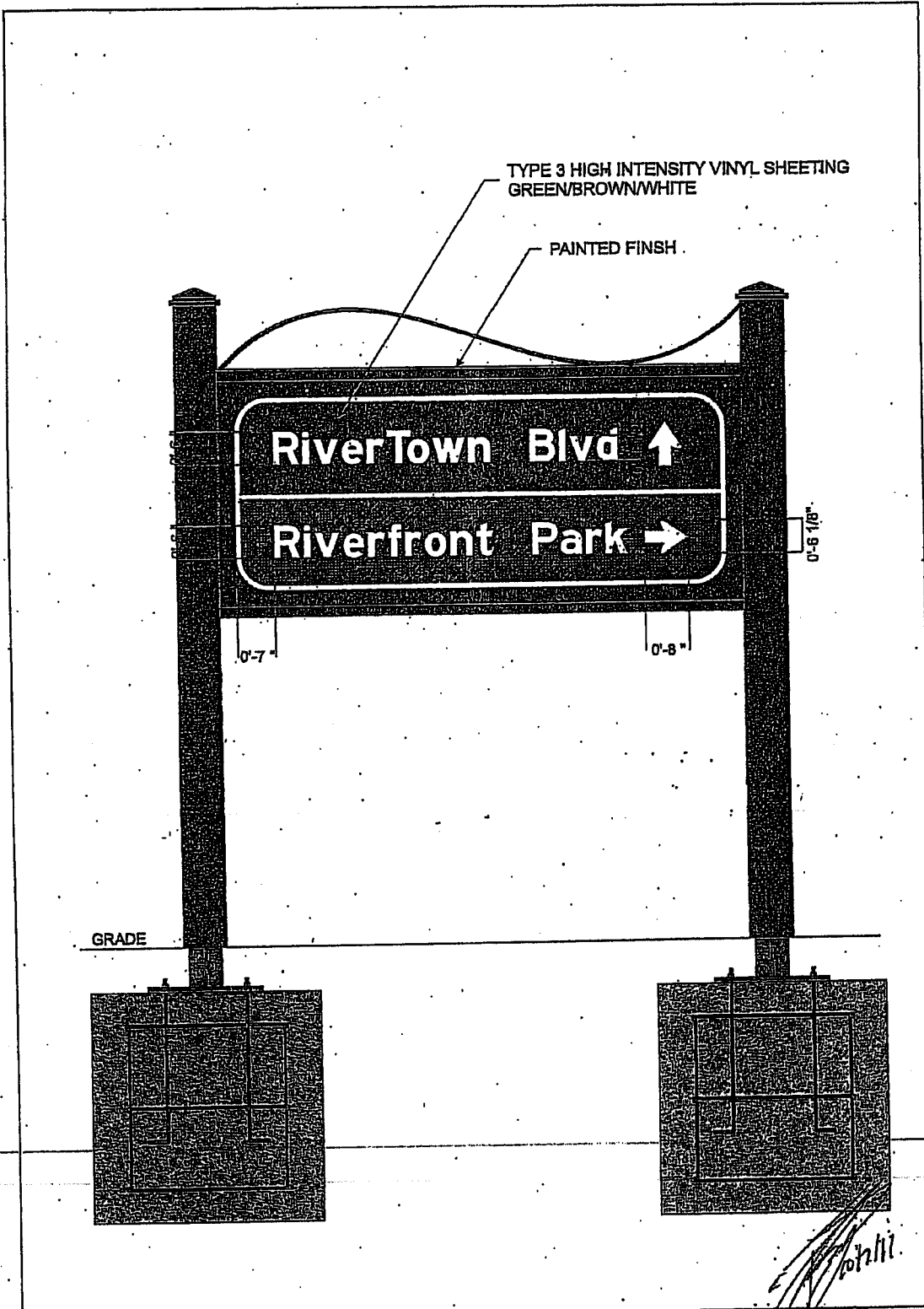
  

PROJECT NO.	013	ST. JOHNS	FINANCIAL FORECAST ID	N/A	
 MULLEN SYSTEMS 10100 W. 10th Street, Suite 100 Overland Park, KS 66211 Phone: (913) 241-1100 Fax: (913) 241-1101					
<b>SIGNING AND PAVEMENT MARKING PLAN</b>					
Made to Order 1-29-11					
SHEET NO.	S-3			DATE	11/29/11



SHEET NO. 5-4	
SIGNING AND PAVEMENT MARKING PLAN	
DESIGNER: ST. JOHNS	REVISIONS:
DATE: 03	DESCRIPTION:
PROJECT: N/A	DATE: 1-9-12





TYPE 3 HIGH INTENSITY VINYL SHEETING  
GREEN/BROWN/WHITE

PAINTED FINISH

RiverTown Blvd ↑

Riverfront Park →

0'-7"

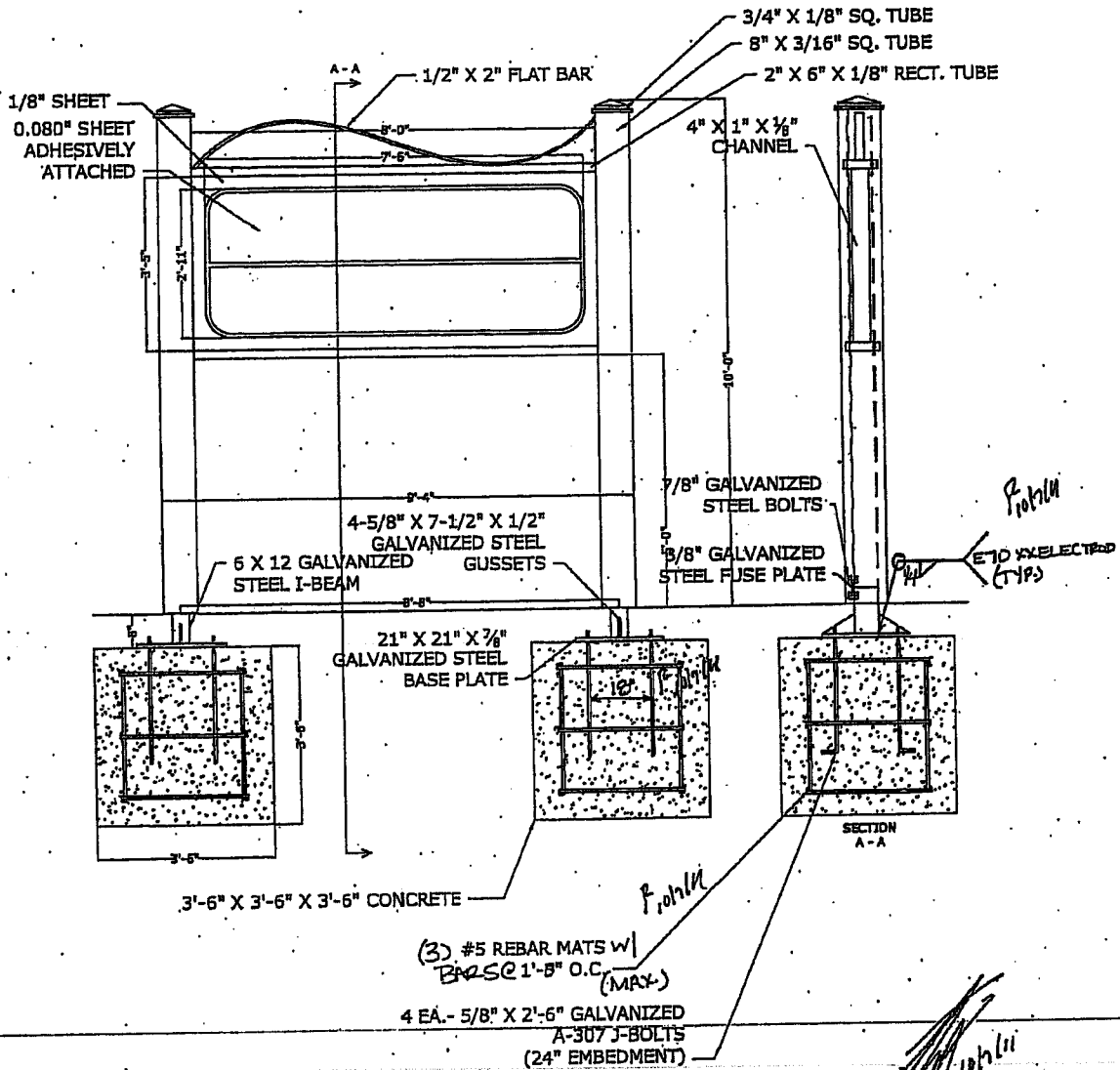
0'-8"

0'-6 1/8"

GRADE

<small>This drawing was created by System 33. All drawings, materials and equipment are owned by System 33 Inc. This drawing cannot be reproduced in whole or in part without the written consent of System 33 Inc.</small>  System 33 P.O. Box 194 Silverton, NJ Tel: 908-427-4600 Fax: 908-427-4678	Firm name and address  <b>RIVER TOWN</b>		Project name and address  <b>ROUNDAABOUT GUIDE SIGN</b>	
	Project #		Sheet # <b>1 of 2</b>	
	Scale <b>3/4" = 1'</b>		Revision	
	Date <b>9-22-11</b>		Drawn By <b>T.E.Z.</b>	

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



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System 21  
 P.O. Box 194  
 Edgewater, PA  
 Tel. 305-427-4600  
 Fax. 305-427-4678

Site name and address  
**RIVER TOWN**

Project name and address <b>ROUNDBOUT GUIDE SIGN</b>	
Project #	Sheet 2 of 2
Scale 1/2" = 1'	Revision
Date 9-22-11	Drawn by T.E.Z.



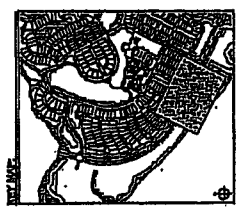
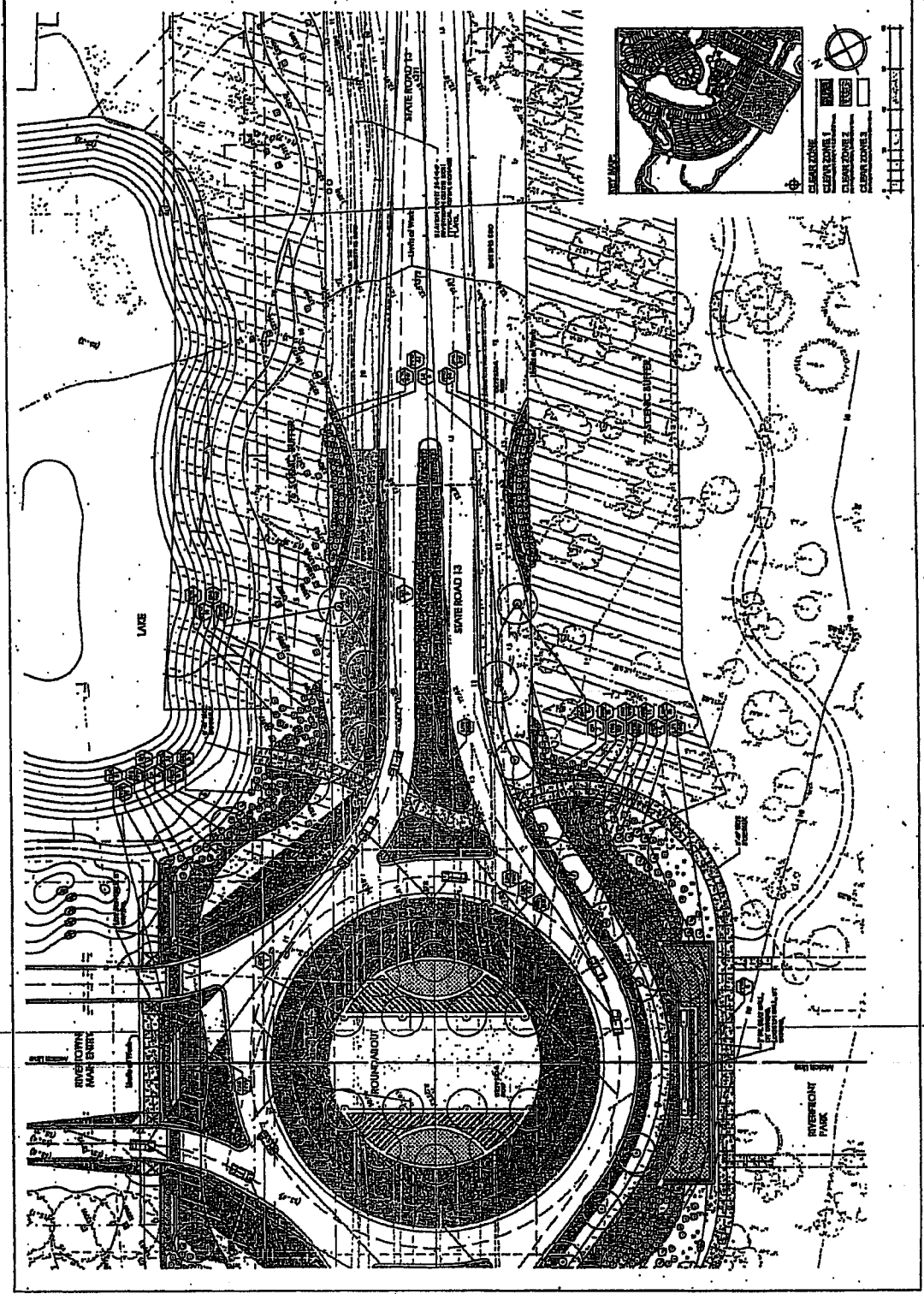


ERWIN  
LOVETT  
MILLER

APPROVED FOR THE TOWN OF RIVERTOWN  
DATE: 11/14/11  
BY: [Signature]

RIVERTOWN  
State Road 13 Roundabout and Entry Drive  
St. Johns County, Florida  
THE ST. JOE COMPANY

NO.	DATE	DESCRIPTION
1	11/14/11	Final
2	11/14/11	Final
3	11/14/11	Final
4	11/14/11	Final
5	11/14/11	Final
6	11/14/11	Final
7	11/14/11	Final
8	11/14/11	Final
9	11/14/11	Final
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15	11/14/11	Final
16	11/14/11	Final
17	11/14/11	Final
18	11/14/11	Final
19	11/14/11	Final
20	11/14/11	Final



LEGEND  
SUBDIVISION  
CLEARING ZONE  
CLEARING ZONE  
CLEARING ZONE

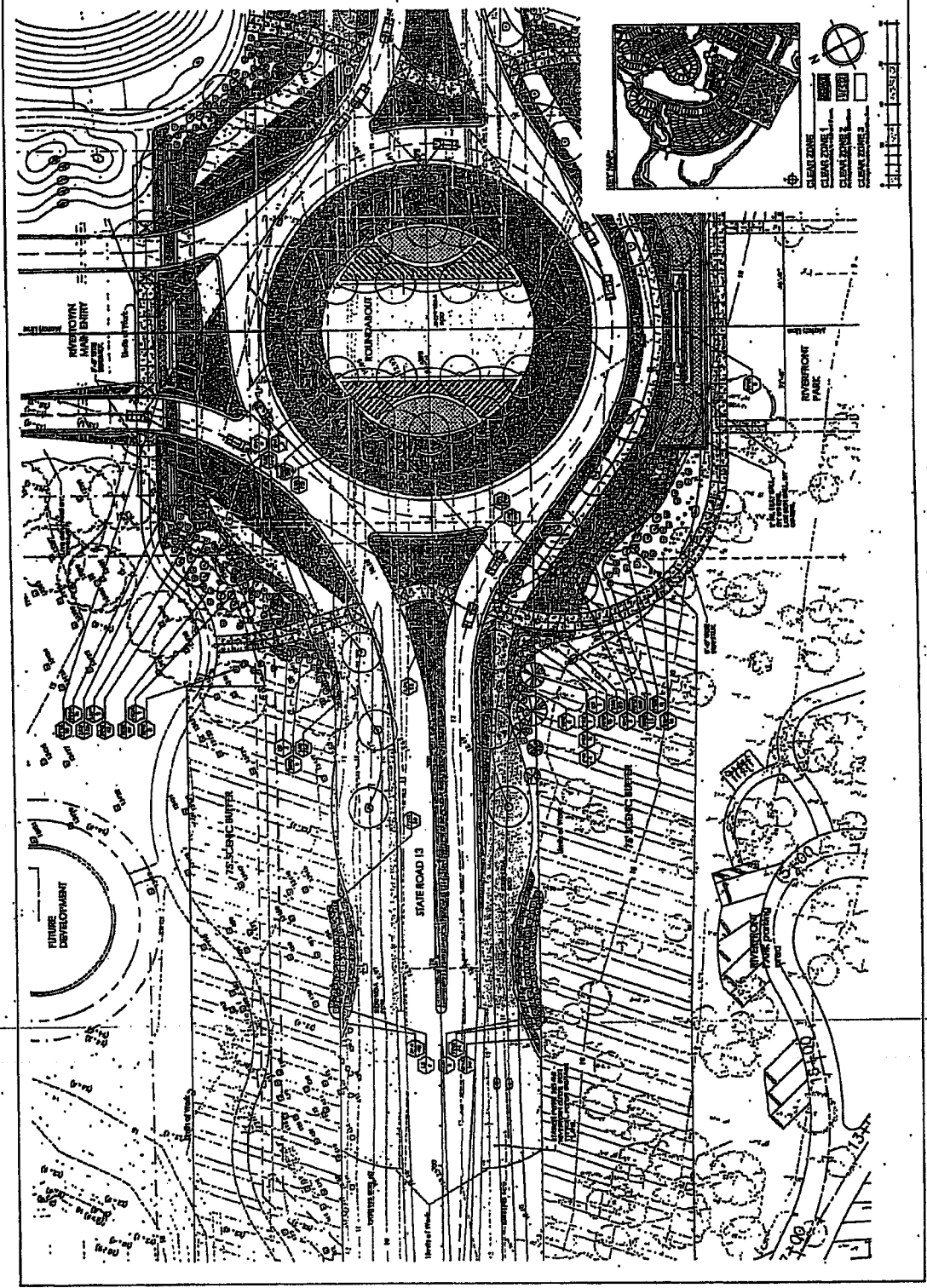
**eim**  
 ERVIN  
 COVETT  
 MILLER

ARCHITECT  
 ENGINEER  
 PLANNER  
 LANDSCAPE ARCHITECT

**RIVERTOWN**  
 State Road 13 Roundabout and Entry Drive  
 21 Johns County, Georgia  
 BEST JOB COMPANY

NO.	DATE	DESCRIPTION
1	10/15/11	PRELIMINARY
2	11/15/11	REVISED
3	12/15/11	REVISED
4	01/15/12	REVISED
5	02/15/12	REVISED
6	03/15/12	REVISED
7	04/15/12	REVISED
8	05/15/12	REVISED
9	06/15/12	REVISED
10	07/15/12	REVISED
11	08/15/12	REVISED
12	09/15/12	REVISED
13	10/15/12	REVISED
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90	03/15/19	REVISED
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92	05/15/19	REVISED
93	06/15/19	REVISED
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96	09/15/19	REVISED
97	10/15/19	REVISED
98	11/15/19	REVISED
99	12/15/19	REVISED
100	01/15/20	REVISED

**LS-2**  
 10/15/11



Landscape Specifications

See General Notes

1. All trees shall be planted in accordance with the following specifications:
a. Tree to be planted in a hole 12 inches larger than the root ball and 6 inches deep.

2. All trees shall be planted with a minimum of 12 inches clearance from other trees or structures.

3. All trees shall be planted with a minimum of 12 inches clearance from buildings.

4. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

5. All trees shall be planted with a minimum of 12 inches clearance from other trees.

6. All trees shall be planted with a minimum of 12 inches clearance from structures.

7. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

8. All trees shall be planted with a minimum of 12 inches clearance from other trees.

9. All trees shall be planted with a minimum of 12 inches clearance from structures.

10. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

11. All trees shall be planted with a minimum of 12 inches clearance from other trees.

12. All trees shall be planted with a minimum of 12 inches clearance from structures.

Planting Details

1. All trees shall be planted in accordance with the following specifications:
a. Tree to be planted in a hole 12 inches larger than the root ball and 6 inches deep.

2. All trees shall be planted with a minimum of 12 inches clearance from other trees or structures.

3. All trees shall be planted with a minimum of 12 inches clearance from buildings.

4. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

5. All trees shall be planted with a minimum of 12 inches clearance from other trees.

6. All trees shall be planted with a minimum of 12 inches clearance from structures.

7. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

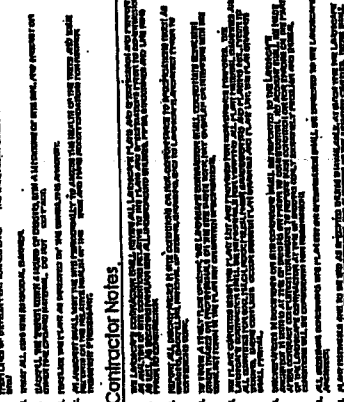
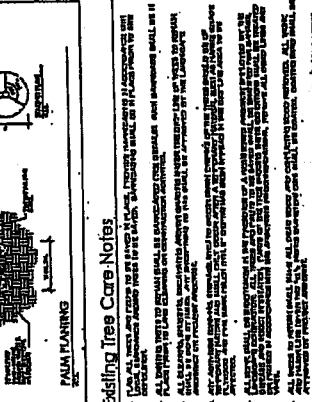
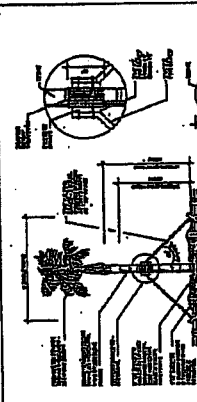
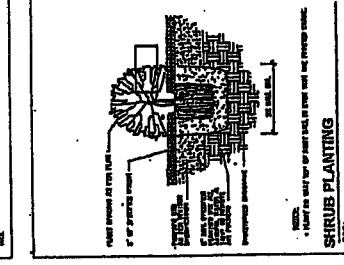
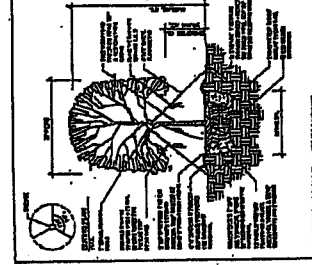
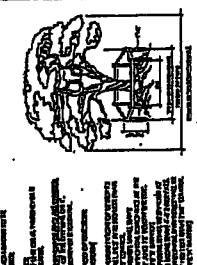
8. All trees shall be planted with a minimum of 12 inches clearance from other trees.

9. All trees shall be planted with a minimum of 12 inches clearance from structures.

10. All trees shall be planted with a minimum of 12 inches clearance from utility lines.

11. All trees shall be planted with a minimum of 12 inches clearance from other trees.

12. All trees shall be planted with a minimum of 12 inches clearance from structures.



Project: [Name]
Date: [Date]

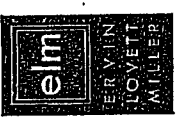
RIVERTOWN
State Road 13 Roundabout and Entry Drive
WEST JOE COMPANY

Table with columns: No., Description, Size, Planting Date, Notes.

LS-3
Landscape Specifications



BRYAN J. LOVETT
Landscape Architect



ERRY VIN  
LOVETT  
MILLER

St. Johns County, Florida  
RIVERTOWN  
Specs. Sheet 13 Foundation and Lacey Drive

TABLE OF CONTENTS

SECTION	PAGE
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4. REINFORCEMENT	4
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6. ELECTRICAL	6
7. MECHANICAL	7
8. PLUMBING	8
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11. INTERIOR WALLS	11
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13. CEILING	13
14. PAINTS AND FINISHES	14
15. SCHEDULES	15
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UNIVERSITY  
LS-4

1. GENERAL NOTES  
A. See notes on previous sheets.  
B. All work shall be in accordance with the Florida Building Code, 2001 Edition, and all applicable codes and regulations.  
C. The contractor shall be responsible for obtaining all necessary permits and licenses.  
D. All materials and workmanship shall be subject to inspection and approval by the building official.  
E. The contractor shall maintain access to all existing utilities and structures.  
F. All work shall be completed within the specified time frame.  
G. The contractor shall be responsible for the safety of all workers and the public.  
H. All work shall be completed in accordance with the specifications and drawings.  
I. The contractor shall be responsible for the quality of all work.  
J. All work shall be completed in accordance with the specifications and drawings.  
K. The contractor shall be responsible for the safety of all workers and the public.  
L. All work shall be completed within the specified time frame.  
M. The contractor shall be responsible for obtaining all necessary permits and licenses.  
N. All materials and workmanship shall be subject to inspection and approval by the building official.  
O. The contractor shall maintain access to all existing utilities and structures.  
P. All work shall be completed in accordance with the specifications and drawings.  
Q. The contractor shall be responsible for the quality of all work.  
R. All work shall be completed in accordance with the specifications and drawings.  
S. The contractor shall be responsible for the safety of all workers and the public.  
T. All work shall be completed within the specified time frame.  
U. The contractor shall be responsible for obtaining all necessary permits and licenses.  
V. All materials and workmanship shall be subject to inspection and approval by the building official.  
W. The contractor shall maintain access to all existing utilities and structures.  
X. All work shall be completed in accordance with the specifications and drawings.  
Y. The contractor shall be responsible for the quality of all work.  
Z. All work shall be completed in accordance with the specifications and drawings.

2. FOUNDATION  
A. Foundation shall be in accordance with the specifications and drawings.  
B. All foundation work shall be completed in accordance with the specifications and drawings.  
C. The contractor shall be responsible for the quality of all foundation work.  
D. All foundation work shall be completed in accordance with the specifications and drawings.  
E. The contractor shall be responsible for the safety of all workers and the public.  
F. All foundation work shall be completed within the specified time frame.  
G. The contractor shall be responsible for obtaining all necessary permits and licenses.  
H. All materials and workmanship shall be subject to inspection and approval by the building official.  
I. The contractor shall maintain access to all existing utilities and structures.  
J. All foundation work shall be completed in accordance with the specifications and drawings.  
K. The contractor shall be responsible for the quality of all foundation work.  
L. All foundation work shall be completed in accordance with the specifications and drawings.  
M. The contractor shall be responsible for the safety of all workers and the public.  
N. All foundation work shall be completed within the specified time frame.  
O. The contractor shall be responsible for obtaining all necessary permits and licenses.  
P. All materials and workmanship shall be subject to inspection and approval by the building official.  
Q. The contractor shall maintain access to all existing utilities and structures.  
R. All foundation work shall be completed in accordance with the specifications and drawings.  
S. The contractor shall be responsible for the quality of all foundation work.  
T. All foundation work shall be completed in accordance with the specifications and drawings.  
U. The contractor shall be responsible for the safety of all workers and the public.  
V. All foundation work shall be completed within the specified time frame.  
W. The contractor shall be responsible for obtaining all necessary permits and licenses.  
X. All materials and workmanship shall be subject to inspection and approval by the building official.  
Y. The contractor shall maintain access to all existing utilities and structures.  
Z. All foundation work shall be completed in accordance with the specifications and drawings.

3. CONCRETE  
A. All concrete work shall be in accordance with the specifications and drawings.  
B. All concrete work shall be completed in accordance with the specifications and drawings.  
C. The contractor shall be responsible for the quality of all concrete work.  
D. All concrete work shall be completed in accordance with the specifications and drawings.  
E. The contractor shall be responsible for the safety of all workers and the public.  
F. All concrete work shall be completed within the specified time frame.  
G. The contractor shall be responsible for obtaining all necessary permits and licenses.  
H. All materials and workmanship shall be subject to inspection and approval by the building official.  
I. The contractor shall maintain access to all existing utilities and structures.  
J. All concrete work shall be completed in accordance with the specifications and drawings.  
K. The contractor shall be responsible for the quality of all concrete work.  
L. All concrete work shall be completed in accordance with the specifications and drawings.  
M. The contractor shall be responsible for the safety of all workers and the public.  
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P. All materials and workmanship shall be subject to inspection and approval by the building official.  
Q. The contractor shall maintain access to all existing utilities and structures.  
R. All concrete work shall be completed in accordance with the specifications and drawings.  
S. The contractor shall be responsible for the quality of all concrete work.  
T. All concrete work shall be completed in accordance with the specifications and drawings.  
U. The contractor shall be responsible for the safety of all workers and the public.  
V. All concrete work shall be completed within the specified time frame.  
W. The contractor shall be responsible for obtaining all necessary permits and licenses.  
X. All materials and workmanship shall be subject to inspection and approval by the building official.  
Y. The contractor shall maintain access to all existing utilities and structures.  
Z. All concrete work shall be completed in accordance with the specifications and drawings.

4. REINFORCEMENT  
A. All reinforcement work shall be in accordance with the specifications and drawings.  
B. All reinforcement work shall be completed in accordance with the specifications and drawings.  
C. The contractor shall be responsible for the quality of all reinforcement work.  
D. All reinforcement work shall be completed in accordance with the specifications and drawings.  
E. The contractor shall be responsible for the safety of all workers and the public.  
F. All reinforcement work shall be completed within the specified time frame.  
G. The contractor shall be responsible for obtaining all necessary permits and licenses.  
H. All materials and workmanship shall be subject to inspection and approval by the building official.  
I. The contractor shall maintain access to all existing utilities and structures.  
J. All reinforcement work shall be completed in accordance with the specifications and drawings.  
K. The contractor shall be responsible for the quality of all reinforcement work.  
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W. The contractor shall be responsible for obtaining all necessary permits and licenses.  
X. All materials and workmanship shall be subject to inspection and approval by the building official.  
Y. The contractor shall maintain access to all existing utilities and structures.  
Z. All reinforcement work shall be completed in accordance with the specifications and drawings.



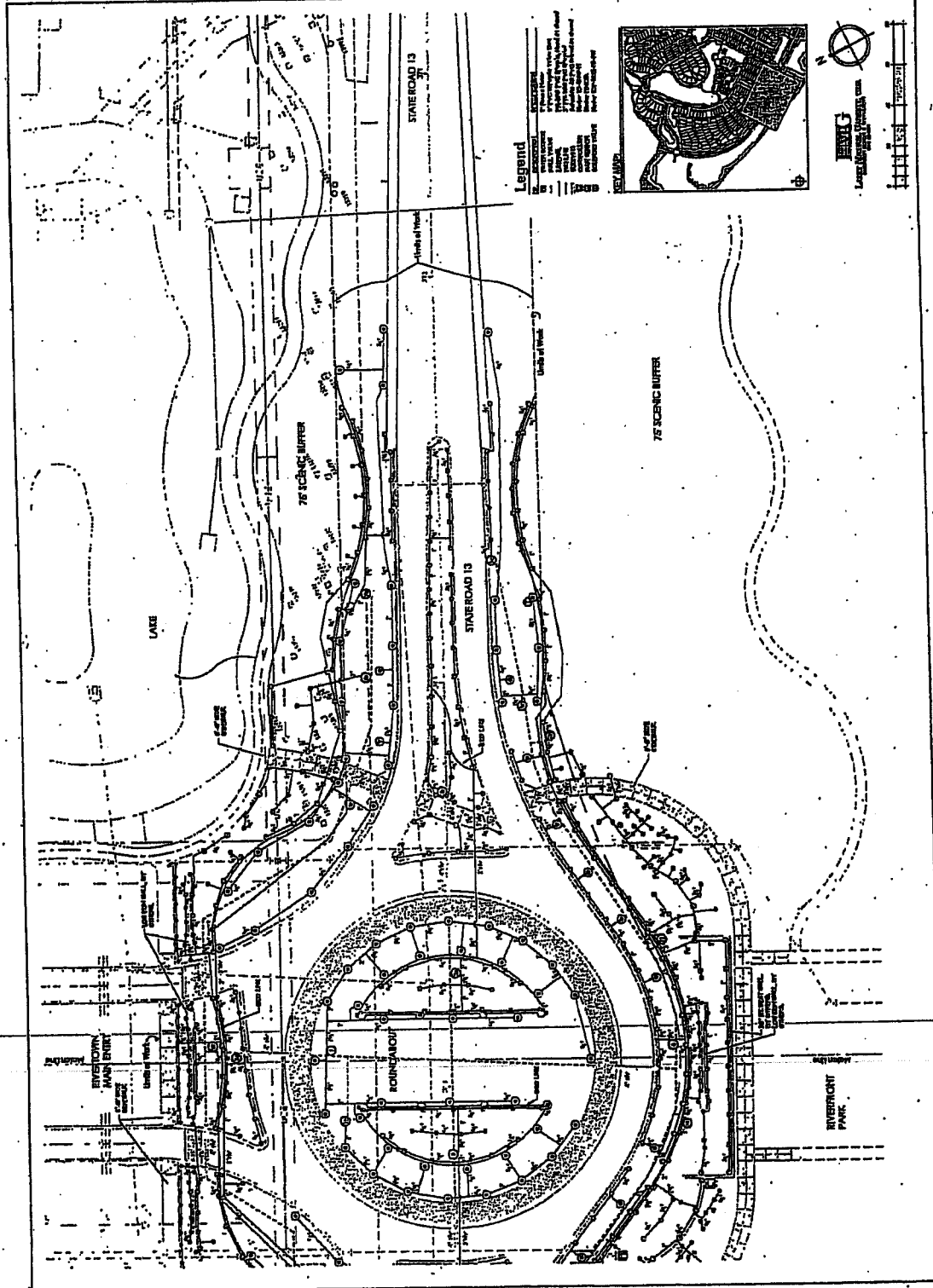
ERVIN  
LOVETT  
MILLER

ELM  
ENGINEERING & ARCHITECTURE  
3000 RIVERFRONT PARKWAY  
RIVERTOWN, INDIANA 46781  
PHONE: 773.792.7922  
FAX: 773.792.7923  
WWW.ELMENGINEERING.COM

RIVERTOWN  
State Road 13 Roundabout and Entry Drive  
St. John's County, Florida  
THE ST. JOHN'S COMPANY

NO.	DATE	DESCRIPTION
1	03/15/10	PRELIMINARY
2	04/22/10	FINAL DESIGN
3	05/18/10	CONSTRUCTION PERMITS
4	06/01/10	CONSTRUCTION
5	06/01/10	AS-BUILT
6	06/01/10	FINAL

LS-5  
SHEET NUMBER



- Legend**
- 1. PROPOSED ROAD
  - 2. EXISTING ROAD
  - 3. PROPOSED SIDEWALK
  - 4. EXISTING SIDEWALK
  - 5. PROPOSED DRIVE
  - 6. EXISTING DRIVE
  - 7. PROPOSED UTILITY
  - 8. EXISTING UTILITY
  - 9. PROPOSED SIGNAGE
  - 10. EXISTING SIGNAGE



Scale 1:250  
Graphic scale: 0 10 20 30 Feet  
North Arrow  
EIRMG  
Engineering & Planning, Inc.  
1000 West 12th Street  
Tulsa, OK 74106  
Phone: 918.437.4100  
Fax: 918.437.4101  
www.eirmg.com





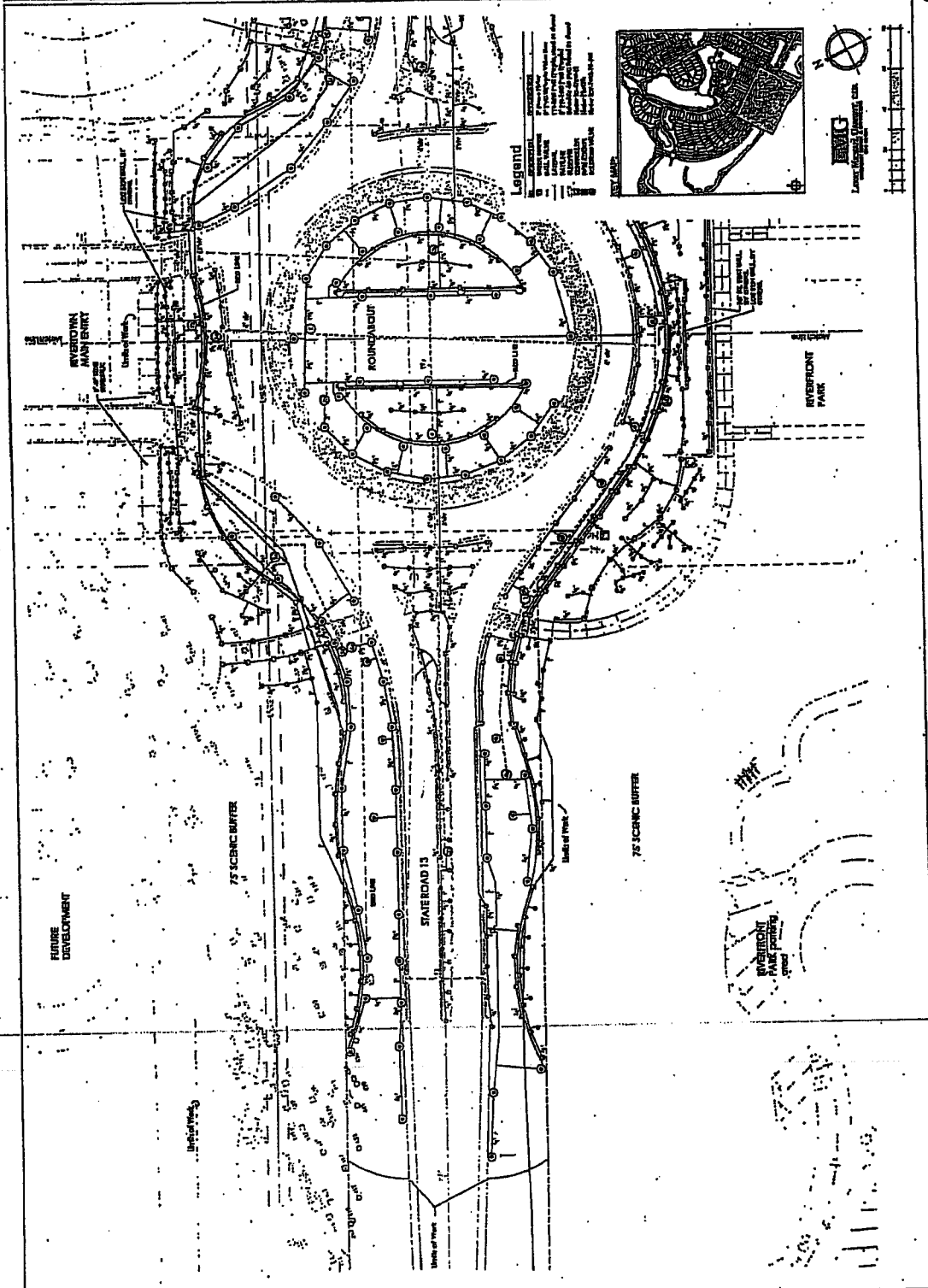
ERYIN  
LOVETT  
MILLER

PROJECT NO. 13  
DATE: 10/10/13  
SCALE: AS SHOWN  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]

RIVERTOWN  
St. John County, Rhode Island  
State Road 13 Roundabout and Entry Drive

NO. OF SHEETS	1
SHEET NO.	1
TITLE	PLAN
DATE	10/10/13
SCALE	AS SHOWN
DRAWN BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]

LS-6  
10/10/13



**LEGEND**

- 1. Proposed Roundabout
- 2. Proposed Entry Drive
- 3. Proposed Parking Area
- 4. Proposed Walkway
- 5. Proposed Plantings
- 6. Proposed Landscaping
- 7. Proposed Fencing
- 8. Proposed Signage
- 9. Proposed Utility Lines
- 10. Proposed Stormwater Management
- 11. Proposed Access Points
- 12. Proposed Sight Triangles
- 13. Proposed Street Lighting
- 14. Proposed Pedestrian Crossings
- 15. Proposed Bicycle Lanes
- 16. Proposed Tree Plantings
- 17. Proposed Landscaping
- 18. Proposed Fencing
- 19. Proposed Signage
- 20. Proposed Utility Lines
- 21. Proposed Stormwater Management
- 22. Proposed Access Points
- 23. Proposed Sight Triangles
- 24. Proposed Street Lighting
- 25. Proposed Pedestrian Crossings
- 26. Proposed Bicycle Lanes
- 27. Proposed Tree Plantings
- 28. Proposed Landscaping
- 29. Proposed Fencing
- 30. Proposed Signage
- 31. Proposed Utility Lines
- 32. Proposed Stormwater Management
- 33. Proposed Access Points
- 34. Proposed Sight Triangles
- 35. Proposed Street Lighting
- 36. Proposed Pedestrian Crossings
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- 100. Proposed Sight Triangles





**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

A circular stamp containing a handwritten signature and the date "1/12/11". The signature is written in dark ink and is somewhat stylized. The date is written in a similar style below the signature.

**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:** 130 MPH (3-Sec. Wind Speed)  
**Wind Exposure:** "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 =  $q_z = 0.00256K_zK_dK_eV^2 = 36.77$  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.<sup>3</sup>

$S_{6x12 WF Col.} = 7.31$  in.<sup>3</sup> > 3.31 in.<sup>3</sup> 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.

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

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

**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.**