

ADD-ON

Attached is Agenda Item #14

**Approval to Assume Project Responsibility for the
Natural Bridge Road Bridge Replacement Project
(County Administrator/County Administration/Public Works)**

(This item will be taken up under General Business)

Meeting of Tuesday, May 26, 2015

This document distributed May 26, 2015

Leon County Board of County Commissioners

Cover Sheet for Agenda #14

May 26, 2015

To: Honorable Chairman and Members of the Board

From: Vincent S. Long, County Administrator

Title: Approval to Assume Project Responsibility for the Natural Bridge Road Bridge Replacement Project

County Administrator Review and Approval:	Vincent S. Long, County Administrator
Department/ Division Review:	Alan Rosenzweig, Deputy County Administrator
Lead Staff/ Project Team:	Tony Park, P.E., Director, Public Works Kim Dressel, Senior Assistant to the County Administrator

Fiscal Impact:

Funding for the Natural Bridge Road Bridge replacement project is provided by federal transportation dollars.

Staff Recommendation:

- Option #1: Authorize the County Administrator to execute an agreement with FDOT, in a form approved by the County Attorney's office, whereby FDOT will transfer the existing construction contract and completed design plans and all permits associated with the Natural Bridge Road bridge replacement project to Leon County and arrange for Leon County's receipt of the associated federal funding, and Leon County will manage and administer the Natural Bridge Road bridge replacement project on a go-forward basis.
- Option #2: Authorize the County Administrator to execute any and all documents necessary for Leon County to manage, administer and deliver the Natural Bridge Road bridge replacement project, and to receive, budget and expend the associated funding.

Report and Discussion

Background:

During its April 14, 2015 meeting, the Board directed to request the Florida Department of Transportation (FDOT) to continue with the Natural Bridge Road Bridge replacement project as currently designed, and to request that FDOT accelerate the project as much as possible (a copy of the agenda item is provided as Attachment #3). On April 15, 2015, staff notified FDOT of the Board's direction, requesting that FDOT proceed with the bridge replacement project as designed. Subsequently, staff has received the following:

1. An e-mail from FDOT, dated May 22, 2015, notifying Leon County that: (a) although FDOT and Leon County have entered into an agreement under which the replacement of the Natural Bridge Road bridge is to be overseen and administered by FDOT, FDOT will not move forward with delivery of the project; and (b) if Leon County wants to move forward with the bridge replacement project, FDOT will enter into an agreement with Leon County to transfer the existing construction contract and completed design plans to Leon County, and arrange for the County's receipt of the associated federal funding (Attachment #1).
2. Staff received a letter from the FDOT's bridge inspectors, Volkert, Inc., notifying the County that the deficiencies on Natural Bridge Road Bridge are "...critical enough to recommend reducing the posting of the bridge to 9 U.S. tons until the deficiencies have been corrected" (Attachment #2).

The Natural Bridge Road Bridge (BN 554001) is a Leon County bridge over a branch of St. Marks River in Leon County and is not on the State Highway System (off system). The bridge is seventy-seven years old.

The bridge has been identified by FDOT for replacement using federal funding because of a low 2008 Sufficiency Rating. In 2009, H.W. Lochner was selected by FDOT to start the bridge replacement design, which was completed in December 2011. In 2012, the County performed structural reinforcement to maintain the bridge's integrity.

At the February 26, 2013 meeting, the Board approved the proposed agreement with FDOT for the construction of the Natural Bridge Road Bridge replacement (Attachment #3, page 8). A copy of the executed Off System Project Agreement with FDOT is provided (Attachment #3, beginning on page 17). Construction of the replacement bridge was originally slated to begin March 9, 2015, which would have required the closure of the bridge for five months.

At the February 10, 2015 meeting, citizens raised concerns about the proposed detour route and, among other things, limited access to emergency services. The Board voted at the meeting to send a letter to FDOT requesting consideration of the issues (Attachment #3, Page 12). Additionally, FDOT received a resolution from Jefferson County and a letter from Wakulla County addressing the aforementioned issues (Attachment #3, pages 13-14).

On March 6, 2015, Leon County received correspondence from FDOT addressing the concerns raised by the citizens and reflected in the County's February 11, 2015 letter (Attachment #3, pages 15-16). In part, FDOT's letter notified Leon County that it had suspended all activity on the project, and offered three alternatives for Leon County's consideration:

1. Construct a temporary bridge;
2. Re-do the plans and use the existing bridge while constructing a new bridge in a different alignment; and,
3. Provide the current plans to Leon County to proceed as the County sees fit. No cost estimates have been finalized for either concept, however, as noted in FDOT's attached letter, this temporary bridge "...would significantly increase the cost of the project..." and "...non-state financial resources need to be identified before this option could proceed."

Preliminary estimates indicate that the alternatives presented by FDOT would cost in excess of an additional \$2 million. This additional funding is not currently contemplated as part of the project and would be in addition to the current cost of \$985,000.

As part of the April 14, 2015 agenda item, the County Administrator noted that if the project proceeded, an enhanced emergency response plan would be developed in working with Wakulla and Jefferson Counties. Subsequent to this time, Leon, Jefferson, and Wakulla County emergency staffs have proceeded in developing an enhanced coordinated emergency response plan. The plan establishes a common operational picture and ensures the most appropriate, available resource responds to emergency situations in the impacted area.

A March 10, 2015 agenda item sought the Board's direction as to whether or not to: (1) proceed with the Natural Bridge Road Bridge project as currently designed, and (2) determine if Wakulla and Jefferson Counties would provide funds toward a temporary bridge to eliminate the proposed detour that would otherwise be in place during the construction period (Attachment #3, beginning on page 5). Consistent with the Board's direction, separate letters were sent to Jefferson and Wakulla counties to determine their interest in providing funding for a temporary bridge (Attachment #3, pages 112-113). Jefferson County and Wakulla County advised that they will not provide funding for a temporary bridge to eliminate the proposed detour that would be in place during the construction of the replacement bridge on Natural Bridge Road.

Analysis:

According to FDOT's online records, the Natural Bridge Road Bridge was constructed in 1938, and was last inspected on October 29, 2014 (Attachment #3, page 114). The bridge received a Sufficiency Rating of 60.8 (out of a maximum of 100) and a Health Index Rating of 67.74 (also out of a maximum of 100). The bridge was categorized as Functionally Obsolete, meaning the bridge does not meet current road design standards. A health index below 85 generally indicates that some repairs are needed, although it does not mean the bridge is unsafe; and a low health index may also indicate that it would be more economical to replace the bridge than to repair it.

The "sufficiency rating" is a tool that is used to help determine whether a bridge that is structurally deficient or functionally obsolete should be repaired or just replaced. Sufficiency ratings were developed by the Federal Highway Administration to serve as a prioritization tool to allocate funds. The rating varies from 0 percent (poor) to 100 percent (very good). The formula considers structural adequacy, whether the bridge is functionally obsolete and level of service provided to the public.

According to FDOT's May 22, 2015 e-mail, the "...bridge in question does need to be replaced, it is currently in safe condition..." Leon County received notification from FDOT's bridge inspector, Volkert, Inc., dated April 27, 2015, stating it has determined deficiencies on Natural Bridge Road Bridge (advance corrosion of certain beams) are "critical enough to recommend reducing the [weight load] posting of the bridge to 9 U.S. tons until the deficiencies have been corrected" (Attachment #2). Unless replaced, the beams will continue to corrode.

According to the County Attorney, while there is still a pending challenge to FDOT and the Northwest Florida Water Management District at the Division of Administrative Hearings, it is likely that the transfer of the challenged permits could render the current case moot. However, the County could be added as a party when the County becomes the permit holder (or a new action could be filed). Staff will keep the Board apprised of the status as the DOAH matter proceeds.

Staff recommends moving forward with the bridge replacement project, as currently designed and permitted, by entering into an agreement with FDOT under which FDOT will transfer the existing construction contract and completed design plans to Leon County and arrange for the County's receipt of the associated federal funding, and Leon County will manage the project on a go-forward basis.

If the County does not move forward at this time, while federal funding is available to fund the project, the County will be faced ongoing maintenance costs, and will ultimately need to replace the bridge in the future. It is important to note that the off system bridge program, applicable to this current project, is being modified in 2020 to require local funding participation for bridge replacements. It is also important to note that the current construction contract amount of \$985,000 does not include approximately \$2,000,000 in design and permitting costs that FDOT has already invested in this project.

Options:

1. Authorize the County Administrator to execute an agreement with FDOT, in a form approved by the County Attorney's office, whereby FDOT will transfer the existing construction contract and completed design plans and all permits associated with the Natural Bridge Road bridge replacement project to Leon County and arrange for Leon County's receipt of the associated federal funding, and Leon County will manage and administer the Natural Bridge Road bridge replacement project on a go-forward basis.
2. Authorize the County Administrator to execute any and all documents necessary for Leon County to manage, administer and deliver the Natural Bridge Road bridge replacement project, and to receive, budget and expend the associated funding.
3. Do not proceed with the Natural Bridge Road bridge replacement project and continue to have the FDOT perform future inspections of Natural Bridge Road bridge and advise Leon County as to any repairs or weight restrictions that are recommended.
4. Board direction.

Recommendation:

Options #1 and #2.

Attachments:

1. E-mail from FDOT dated May 22, 2015
2. April 27, 2015 notification from FDOT's bridge inspectors, Volkert, Inc.
3. April 14, 2015 agenda item

From: "Vickery, Greg" <Greg.Vickery@dot.state.fl.us>
To: "lindleym@leoncountyfl.gov" <lindleym@leoncountyfl.gov>
Date: 5/22/2015 2:19 PM
Subject: Natural Bridge Road Bridge Replacement (15-04384)
CC: "LongV@LeonCountyFL.gov" <LongV@LeonCountyFL.gov>, "ThieleH@leoncountyfl..."

Florida Department of Transportation
District Three Administration Building
Office of the District Secretary
Post Office Box 607
Chipley, Florida 32428-0607

May 22, 2015

The Honorable Mary Ann Lindley, Chairwoman
Leon County Board of County Commissioners
301 South Monroe Street
Tallahassee, Florida 32301

Subject: Natural Bridge Road Bridge Replacement

Dear Chairwoman Lindley:

I am in receipt of the resolution passed by the Leon County Board of Commissioners regarding the Natural Bridge Road Bridge replacement project.

As you know, Natural Bridge Road is not a part of the state road system. Leon County owns the bridge in question and is solely responsible for its maintenance and operation. FDOT is prohibited by Florida law from spending state funds on construction of non-state structures, and as such there is not money "earmarked" in our budget for replacement of the bridge. The proposed project is funded by federal transportation dollars and all work that has been conducted up to this point has been paid for by these non-state funds. Under our current agreement with Leon County, the project would be overseen and administered by FDOT.

As noted in my earlier letter, FDOT takes the concerns about access to critical services that have been raised by impacted citizens, as well as by your fellow elected officials in neighboring counties, very seriously. These concerns have not been resolved, and FDOT will not be moving forward with delivery of this project.

The existing construction contract and completed design plans will be transferred to Leon County Engineering Services. Leon County will have access to all of the federal funding currently designated for the project. The decision to proceed with the replacement of the bridge, as well as the management of all aspects of the project moving forward, will be at the sole discretion of Leon County. Should the decision be made to proceed, FDOT will enter into an agreement with the county to facilitate the transfer of design plans and to arrange for receipt of the designated federal funding.

While the bridge in question does need to be replaced, it is currently in safe condition (as noted in the inspection report that was provided to the county in October 2014). Regular inspections of the bridge will continue while Leon County determines which course of action to take for replacement of the existing structure.

Sincerely,

/s/ James T. Barfield

James T. Barfield, P.E.
District Secretary

JTB/gv



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P.O. Box 7434
Mobile, AL 36670-0434

Office 251.342.1070
Fax 251.342.7962
volkert@volkert.com

www.volkert.com

April 27, 2015

Contract No. 445600.04
Financial Project ID: 22485817210 and 22485917210
Local Government Bridge Inspections
District Three

Mr. Jim Hazlip
Leon County Public Works
2280 Miccosukee Rd
Tallahassee, FL 32308

SUBJECT: DEFICIENT BRIDGE -- 554001

Dear Mr. Hazlip:

This letter contains information concerning deficiencies on Bridge No. 554001, Natural Bridge Road over St. Marks Branch, which are critical enough to recommend **reducing** the posting of the bridge to 9 U.S. tons until the deficiencies have been corrected. The following deficiencies were noted:

The following beams have advanced corrosion, repair/replace:

Near End - 1-4, 1-5, 2-2, and 2-5
Far End - 1-4, 1-5, 2-7, 4-4, and 4-5

After repairs have been completed, please contact Jeremy Cushing at jeremy.cushing@dot.state.fl.us. If you have any questions, please advise.

Sincerely,

David E. Benton, CBI
Project Manager

deb/

cc: Rodney Chamberlain, Jeremy Cushing, David Riley, Philip Griffith, Dallas Boyd, File

S:\BIVProjects\445600 - Cycle 17 - FDOT Local Gov. Bridge Insp\Deficiency Letters\FL554001.doc

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Raleigh, North Carolina • Harrisburg, Pennsylvania • Chattanooga, Nashville, Tennessee • Alexandria, Virginia • Washington, D.C.



Leon County Board of County Commissioners

Cover Sheet for Agenda #12

April 14, 2015

To: Honorable Chairman and Members of the Board

From: Vincent S. Long, County Administrator

Title: Consideration of Options Regarding the Natural Bridge Road Bridge Replacement Project

County Administrator Review and Approval:	Vincent S. Long, County Administrator
Department/ Division Review:	Alan Rosenzweig, Deputy County Administrator
Lead Staff/ Project Team:	Tony Park, P.E., Director, Public Works Kim Dressel, Senior Assistant to the County Administrator

Fiscal Impact:

The current bid design is funded by Florida Department of Transportation (FDOT) at \$985,000. Any alternative approaches will have a future fiscal impact to provide ongoing repairs and maintenance for the existing Natural Bridge Road Bridge, as well as the possible cost for a future replacement.

Staff Recommendation:

Board direction.

Report and Discussion

Background:

The Natural Bridge Road Bridge (BN 554001) is a Leon County bridge over a branch of St. Marks River in Leon County and is not on the State Highway System (off system). The bridge is seventy-seven years old.

The bridge has been identified by Florida Department of Transportation (FDOT) for replacement using Federal funding because of a low 2008 Sufficiency Rating. In 2009, H.W. Lochner was selected by FDOT to start the bridge replacement design, which was completed in December 2011. In 2012, the County performed structural reinforcement to maintain the bridge's integrity.

At the February 26, 2013 meeting, the Board approved the proposed agreement with FDOT for the construction of the Natural Bridge Road Bridge replacement (Attachment #1, page 4). A copy of the executed agreement is provided as Attachment #2. Construction was slated to begin March 9, 2015, which would have required the closure of the bridge for five months.

At the February 10, 2015 meeting, citizens raised concerns about the proposed 21-mile detour route and, among other things, limited access to emergency services. The Board voted at the meeting to send a letter to FDOT requesting consideration of the issues (Attachment #1, Page 8). Additionally, FDOT has received a resolution from Jefferson County and a letter from Wakulla County addressing the aforementioned issues (Attachment #1, pages 9-10).

On March 6, 2015, Leon County received correspondence from FDOT addressing the concerns raised by the citizens and reflected in the County's February 11, 2015 letter (Attachment #1, pages 11-12). In part, FDOT's letter notified Leon County that it had suspended all activity on the project, and offered three alternatives for Leon County's consideration. These alternatives are discussed in the analysis section of this agenda item.

A March 10, 2015 agenda item sought the Board's direction as to whether or not to: (1) proceed with the Natural Bridge Road Bridge project as currently designed, and (2) determine if Wakulla and Jefferson Counties would provide funds toward a temporary bridge to eliminate the proposed detour that would otherwise be in place during the construction period (Attachment #2). Consistent with the Board's direction, separate letters were sent to Jefferson and Wakulla counties to determine their interest in providing funding for a temporary bridge (Attachment #3).

Analysis:

As previously discussed in the March 10, 2015 agenda item, FDOT has suspended all activity on the Natural Bridge Road Bridge replacement project, and has identified the following alternatives for Leon County to consider:

1. Construct a temporary bridge;
2. Re-do the plans and use the existing bridge while constructing a new bridge in a different alignment; and,
3. Provide the current plans to Leon County to proceed as the County sees fit. No cost estimates have been finalized for either concept, however, as noted in FDOT's attached letter, this temporary bridge "...would significantly increase the cost of the project..." and "...non-state financial resources need to be identified before this option could proceed."

Preliminary estimates indicate that the alternatives presented by FDOT would cost in excess of an additional \$2 million. This additional funding is not currently contemplated as part of the project and would be in addition to the current cost of \$985,000.

Wakulla County has advised that they will not provide funding for a temporary bridge to eliminate the proposed detour that would be in place during the construction of the replacement bridge on Natural Bridge Road. Jefferson County has not formally addressed the funding request.

According to FDOT's online records, the Natural Bridge Road Bridge was constructed in 1938, and was last inspected on October 29, 2014 (Attachment #4). The bridge received a Sufficiency Rating of 60.8 (out of a maximum of 100) and a Health Index Rating of 67.74 (also out of a maximum of 100). The bridge was categorized as Functionally Obsolete.

- The term "functionally obsolete" means that a bridge does not meet current road design standards.
- The "health index" is a tool that measures the overall condition of a bridge. The health index typically includes about 10 to 12 different elements that are evaluated by FDOT. A lower health index means that more work would be required to improve the bridge to an ideal condition. A health index below 85 generally indicates that some repairs are needed, although it does not mean the bridge is unsafe. A low health index may also indicate that it would be more economical to replace the bridge than to repair it.
- The "sufficiency rating" is a tool that is used to help determine whether a bridge that is structurally deficient or functionally obsolete should be repaired or just replaced. Sufficiency ratings were developed by the Federal Highway Administration to serve as a prioritization tool to allocate funds. The rating varies from 0 percent (poor) to 100 percent (very good). The formula considers structural adequacy, whether the bridge is functionally obsolete and level of service provided to the public.

Leon County continues to acknowledge and recognize the hardships the proposed detour will place on a limited number of Wakulla and Jefferson County residents. The proposed detour is the same that has been used in the past during temporary bridge closures (Attachment #5). Eastbound traffic on Natural Bridge Road will be detoured north via Old Plank Road, Tram Road, State Road 59 and Fanlew Road back to Natural Bridge Road. Westbound traffic on Natural Bridge Road will be detoured along the same route but in reverse.

If the project proceeds as currently designed, the County Administrator will work with the Wakulla and Jefferson County Administrators to implement an enhanced emergency response plan that would include the posting of emergency vehicles at alternative locations to reduce response times for those properties most greatly affected by the detour.

Leon County also recognizes the necessity of maintaining and providing for a safe road network throughout the region. In response to FDOT's letter and actions, the Board may wish to consider one of the following options:

Option 1: Request FDOT proceed with the current plan as designed. The County Attorney noted that Melanie and Clay Perez have challenged the permits issued by the Northwest Florida Water Management District and FDOT at DOAH (Division of Administrative Hearings). A hearing is now scheduled for June 3-4, 2015. Leon County's environmental permit, while mentioned in the petition, is not part of this DOAH proceeding (Case No. 15-1322) as it is not subject to Ch. 120 challenges.

Option 2: Do not proceed at this time with the bridge replacement. This would entail having FDOT continue to perform the necessary inspections and advise the County as to the condition of the bridge. County staff will work with FDOT to ensure that the bridge remains safe for usage. The County will request FDOT provide a current analysis of the bridge conditions.

There are financial implications to the County of not replacing the bridge at this time. If the bridge is not replaced, the safety of the bridge will again require a decision of replacement in the future. However, the off system bridge program applicable to this current project is being modified in 2020 to require local funding participation for bridge replacements. In addition to the funding considerations, if in the future the bridge needs closing as the result of a major repair or failure, the time for the closure will be considerably longer than the current estimated five months due to the need to re-permit and bid the project again.

Natural Bridge is a one-lane bridge, maintained by Leon County. As such, Leon County responds to FDOT's inspection reports, which include recommendations as to repairs and weight limit restrictions. Based on the last bridge inspection report, due to corrosion of the superstructure of the bridge, FDOT is recommending the maintenance of the 10-ton weight limit, and a 12-month inspection schedule, rather than the normal bi-annual inspection schedule. The replacement bridge will rectify the current weight limit, and add a second lane.

Options:

1. Request the Florida Department of Transportation continue with the Natural Bridge Road Bridge project as currently designed.
2. Do not proceed with the current project as designed, request Florida Department of Transportation provide a current updated analysis of the bridge condition, and continue to have the Florida Department of Transportation perform future inspections of Natural Bridge Road Bridge and advise Leon County as to any repairs or weight restrictions that are recommended.
3. Board direction.

Recommendation:

Board direction.

Attachments:

1. March 10, 2015 Agenda Item
2. Off System Project Agreement Between FDOT and Leon County
3. Letters to Jefferson County and Wakulla County
4. FDOT- Florida Bridge Information, Natural Bridge Road, 1st Qtr. 2015
5. Proposed Detour Map

Leon County Board of County Commissioners

Cover Sheet for Add-On Agenda #29

March 10, 2015

To: Honorable Chairman and Members of the Board

From: Vincent S. Long, County Administrator

Title: Consideration of Options Regarding the Natural Bridge Road Bridge Replacement Project

County Administrator Review and Approval:	Vincent S. Long, County Administrator
Department/ Division Review:	Alan Rosenzweig, Deputy County Administrator
Lead Staff/ Project Team:	Tony Park, P.E., Director, Public Works

Fiscal Impact:

The current bid design is funded by FDOT at \$985,000. Any alternative approaches will have a future fiscal impact to provide on-going repairs and maintenance for the existing Natural Bridge Road Bridge, as well as, the possible cost for a future replacement.

Staff Recommendation:

Board direction.

Report and Discussion

Background:

The Natural Bridge Road Bridge (BN 554001) is a Leon County bridge over a branch of St. Marks River in Leon County and is not on the State Highway System (off system). The bridge is seventy-seven years old.

The Bridge has been identified by Florida Department of Transportation (FDOT) for replacement using Federal funding because of a low 2008 Sufficiency Rating. In 2009, H.W. Lochner was selected by FDOT to start the bridge replacement design, which was completed in December 2011. In 2012, the County performed structural reinforcement to maintain the bridge's integrity.

At the February 26, 2013 meeting, the Board approved a Consent Item regarding the Off System Project Agreement with FDOT for the construction of the replacement bridge (Attachment #1). Construction was slated to begin March 9, 2015, which would have required the closure of the bridge for five months.

At the February 10, 2015 meeting, citizens raised concerns about the proposed 21-mile detour route and, among other things, limited access to emergency services. The Board voted at the meeting to send a letter to FDOT requesting consideration of the issues (Attachment #2). Additionally, FDOT has received a resolution from Jefferson County and a letter from Wakulla County addressing the aforementioned issues (Attachment #3).

Analysis:

On March 6, 2015, Leon County received a correspondence from FDOT addressing the concerns raised by the citizens and reflected in the County's February 11, 2015 letter (Attachment #4). In summary, the FDOT letter states:

- FDOT has suspended all activity on the project.
- FDOT has identified three alternatives for Leon County to consider: 1) Construct a temporary bridge; 2) Re-do the plans and use the existing bridge while constructing a new bridge in a different alignment; and, 3) Provide the current plans to Leon County to proceed as the County sees fit. No cost estimates have been finalized for either concept, however, as noted in FDOT's attached letter this temporary bridge, "would significantly increase the cost of the project."

Preliminary estimates indicate that the alternatives presented by FDOT would cost in excess of an additional \$2 million. This additional funding is not currently contemplated as part of the project and would be in addition to the current cost of \$985,000.

Leon County continues to acknowledge and recognize the hardships the proposed detour will place on a limited number of Wakulla and Jefferson County residents. Leon County also recognizes the necessity of maintaining and providing for a safe road network throughout the region. In response to FDOT's letter and actions, the Board may wish to consider one of the following options:

1. Request FDOT proceed with the current plan as designed.
2. Do not proceed at this time with the bridge replacement. This would entail having FDOT continue to perform the necessary inspections and advise the County as to the condition of the bridge. County staff will work with FDOT to ensure that the bridge remains safe for usage. The County will request FDOT provide a current analysis of the bridge conditions.
3. Leon County could request Wakulla and Jefferson Counties provide funding for a temporary bridge to eliminate the proposed detour. As reflected in the attachments, both Wakulla and Jefferson Counties have expressed significant concerns regarding the detour.

Natural Bridge is a Leon County maintained bridge. As such, Leon County responds to FDOT's inspection report that includes recommendations as to repairs and weight limit restrictions. However, at some future date the safety of the bridge may again require a decision of replacement.

Options:

1. Request the Florida Department of Transportation continue with the Natural Bridge Road Bridge project as currently designed.
2. Do not proceed with the current project as designed, request Florida Department of Transportation provide a current updated analysis of the bridge condition, and continue to have the Florida Department of Transportation perform future inspections of Natural Bridge Road Bridge and advise Leon County as to any repairs or weight restrictions that are recommended.
3. Determine if Wakulla and Jefferson Counties would provide funds towards a temporary bridge and direct staff to formally send a correspondence seeking this information.
4. Board direction.

Recommendation:

Board direction.

Attachments:


1. February 26, 2013 Agenda Item
2. February 10, 2015 Letter to FDOT
3. Wakulla and Jefferson Counties Correspondences to FDOT
4. March 6, 2015 Letter from FDOT

Leon County Board of County Commissioners

Cover Sheet for Agenda #7

February 26, 2013

To: Honorable Chairman and Members of the Board

From: Vincent S. Long, County Administrator 

Title: Approval of Off System Project Agreement with Florida Department of Transportation for the Natural Bridge Road Bridge Replacement

County Administrator Review and Approval:	Vincent S. Long, County Administrator
Department/ Division Review:	Tony Park, P.E., Director of Public Works and Community Development Katherine Burke, P.E., Director of Engineering Services
Lead Staff/ Project Team:	Charles Wu, P.E., Chief of Engineering Design Chris Muehlemann, P.E., Senior Design Engineer Daniel Rigo, Esq., Assistant County Attorney

Fiscal Impact:

This item has no fiscal impact to the County. The replacement of the bridge will be constructed by Florida Department of Transportation (FDOT) using Federal funds.

Staff Recommendation:

- Option # 1: Approve the proposed Off System Project Agreement with Florida Department of Transportation for the Natural Bridge Road Bridge Replacement, and authorize the County Administrator to execute the Agreement (Attachment #1).
- Option #2: Ratify and accept the Warranty Deed from St. Joe as Exhibit B to the Agreement

Title: Approval of Off System Project Agreement with Florida Department of Transportation
for the Natural Bridge Road Bridge Replacement

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Report and Discussion

Background:

The Natural Bridge Road Bridge (BN 554001) is a Leon County bridge over a branch of St. Marks River in Leon County, Florida and is not on the State Highway System (off system) (Attachment #2). This Bridge has been identified by Florida Department of Transportation (FDOT) for replacement using Federal funding because of low Sufficiency Rating. In 2009, H. W. Lochner was selected by FDOT to start the bridge replacement design. The design of this project was completed in December 2011 and the construction is programed for Fiscal Year 2014.

Analysis:

The existing bridge typical section consists of one 14.5' travel lane with guardrails. A stop sign was installed on both ends of the bridge to advise drivers to approach the bridge with caution. After a bridge inspection in 2008, FDOT recommended a weight limit of 10 tons be posted at the bridge, and it was posted, accordingly, by Leon County. The advisory speed limit on the bridge is 15 miles per hour.

Because of the low sufficiency rating, which is an indicator of the overall condition of the bridge structurally and functionally, repairs of the bridge before the entire bridge replacement were approved by the Board through the FY 2006/07 budget approval process. The bridge repairs, including reinforcement of the beam seats, installation of the tension rod for lateral support, and grouting the damaged deck were completed in July 2010.

The new bridge will have two 10-foot travel lanes and two-foot shoulders with traffic railing along both sides of the bridge (Attachment #3). Understanding the importance of merging the new bridge into the natural environment, staff coordinated with FDOT to encourage the bridge designer to adopt the Context Sensitive Solutions approach, meaning it has design elements included to blend into its natural environment. This approach includes aesthetic deck form liner to mimic a wooden deck while the railing system will receive surface treatment with the color blended into the ambient environment (Attachment #4).

The proposed Agreement provides acknowledgement and acceptance of the following key elements:

- FDOT and the County agree that FDOT utilizes federal funds to undertake and to complete all aspects of the bridge replacement work; including, but not limited to, the design, construction, construction inspection, utilities, permits, and other associated tasks.
- Authorizes FDOT to temporarily use the existing Natural Bridge Road right-of-way for bridge construction; all safety and maintenance responsibility of right-of-way during construction is at FDOT's expense and the responsibility of FDOT and its contractor.
- Outlines the County's involvement and procedure prior to final acceptance of the new bridge by Leon County.

FDOT and Leon County acknowledge and agree that any and all real property needed to complete this project has been acquired by the FDOT as of the date of this Agreement.

Upon completion of the bridge construction, the right-of-way properties acquired by FDOT for the bridge construction will be transferred from FDOT to the County, and the County shall, thereafter, be responsible for maintaining said right-of-way

Title: Approval of Off System Project Agreement with Florida Department of Transportation
for the Natural Bridge Road Bridge Replacement

February 26, 2013

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All real property needed to complete this project has been acquired by FDOT. One of the properties acquired by FDOT for the project, prior to the execution of the proposed Agreement, was inadvertently acquired in the County's name as grantee, as reflected in the warranty deed from St. Joe Timberland Company of Delaware, LLC to Leon County recorded at O.R. Book 4402, Page 133, Official Records of Leon County, Florida, a copy of which is attached to the draft Agreement as Exhibit B. The County Attorney's Office reviewed the title work completed by FDOT and concluded such acquisition to be satisfactory. As a result, staff recommends Board's ratification and acceptance of the Warranty Deed from St. Joe as Exhibit B to the Agreement.

The total cost for replacement of this bridge is estimated at \$2.1 million, including design, construction, and all associated costs, which is to be paid by FDOT using Federal aid funds. Leon County is currently responsible for maintenance of the existing bridge. Under this agreement, FDOT is authorized to temporarily use the County's existing Natural Bridge Road right-of-way for construction of the project, and all safety and maintenance responsibility of said right-of-way during construction shall, at the FDOT's expense, be the responsibility of the FDOT and its contractor. After final acceptance, the County will assume the maintenance responsibility of the new bridge. FDOT's replacement of the bridge assists Leon County in enhancing the transportation safety and allows the County to maintain a new structure, which will reduce the maintenance costs and will remove the County's responsibility for the ultimate replacement of the deficient bridge.

During construction of the new bridge, the Natural Bridge Road, on both ends of the bridge, will be closed for seven months and the detour route is approximately 21 miles. The anticipated road closure can reduce environmental impacts, construction time, and construction cost. The bridge construction contractor is required to make a formal road closure request from Leon County two weeks prior to the actual closure. The public will be notified by variable message signs that display the dates and times of the road closure for a period of two weeks prior to the closure. Because the Natural Bridge Road Bridge is near the Natural Bridge Battlefield Historic State Park, staff has been working with FDOT to minimize the construction and road closure impacts to the park, in addition to continuing coordination with the Park Ranger. Special notes have been added to the construction plans requiring no construction operations during special events, including Battle of Natural Bridge Re-enactment in March.

According to the current FDOT's Transportation Improvement Five-Year Program schedule, the funding for bridge construction will be available in Fiscal Year 2014. The Natural Bridge Road Bridge Replacement construction is anticipated to be bid by FDOT in May 2014 while the construction time is estimated to be seven months. Approval of this funding requires agreement by the County to maintain the project once completed.

Due to the massive volume of the Agreement Package, only the Agreement and Exhibit B are included as Attachment #1. The complete Agreement, including all exhibits, may be reviewed at the Leon County Courthouse, 301 South Monroe Street, 5th Floor, County Administration or at Leon County Public Works, 2280 Miccosukee Road, 2nd Floor, Engineering Services Division. It may also be viewed at [Leoncountyfl.gov/Departments/PublicWorks/Engineering Services](http://Leoncountyfl.gov/Departments/PublicWorks/Engineering%20Services) under Important Documents.

Title: Approval of Off System Project Agreement with Florida Department of Transportation
for the Natural Bridge Road Bridge Replacement

February 26, 2013

Page 4

Options:

1. Approve the proposed Off-System Project Agreement with Florida Department of Transportation for the Natural Bridge Road Bridge Replacement, and authorize the County Administrator to execute the Agreement
2. Ratify and accept the Warranty Deed from St. Joe as Exhibit B to the Agreement.
3. Do not approve the proposed Off-System Project Agreement with Florida Department of Transportation for the Natural Bridge Road Bridge Replacement.
4. Board direction.

Recommendation:

Options #1 and #2.

Attachments:

1. Proposed Agreement
2. Project Location Map
3. Proposed Bridge Typical Section
4. Bridge Typical Section Rendering

VSL/TP/KB/CW/bp



Leon County

Board of County Commissioners

301 South Monroe Street, Tallahassee, Florida 32301
(850) 606-5302 www.leoncountyfl.gov

Commissioners

BILL PROCTOR
District 1

JANE G. SAULS
District 2

JOHN DAILEY
District 3

BRYAN DESLOGE
District 4

KRISTIN DOZIER
District 5

MARY ANN LINDLEY
At-Large

NICK MADDOX
At-Large

VINCENT S. LONG
County Administrator

HERBERT W.A. THIELE
County Attorney

February 11, 2015

Tommy Barfield, District 3 Secretary
Florida Department of Transportation (FDOT)
Highway 90 East
Chipley, Florida 32424

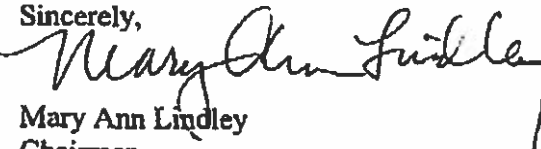
Dear Secretary Barfield:

On behalf of the Leon County Board of County Commissioners, I am writing to express the concerns raised by citizens at the February 10, 2015 County Commission meeting regarding the Natural Bridge Road Bridge Replacement Project. It is my understanding that FDOT intends to begin the replacement project on March 9, 2015 which will require the closure of the bridge for seven months.

The concerns shared by the citizens included the proposed 21-mile detour route and the financial burden they would incur as a result of increased fuel and maintenance costs to their vehicles. Additionally, the citizens stressed their concerns of limited access to emergency, mail, and solid waste services that they would experience due to the closure of the bridge. We know that the rural nature of the area severely limits the options for a detour route; however, we are very interested in working with FDOT to ensure that these public safety concerns are adequately addressed during the replacement of the bridge.

We appreciate your continued partnership with this project and understand the constraints that you face regularly with balancing the infrastructure needs of the community and mitigating the impact to nearby residents. FDOT has been deliberative and responsive throughout this process. Your agency's unyielding commitment and support has been tremendous. Therefore, it is our hope that the proposed detour route could be re-examined in a manner to remedy the concerns of the citizens. I look forward to our continued partnership on this and future projects.

If you should have any questions, please do not hesitate to contact me.

Sincerely,

Mary Ann Lindley
Chairman

**Resolution Requesting a Temporary Access Bridge
Be Provided For Through Traffic During The
Natural Bridge Road Bridge Replacement Project
Affecting Three Counties in North Florida**

WHEREAS, numerous residents from Leon, Wakulla and Jefferson Counties will be put in extreme hardship situations during construction for the better part of a year; and

WHEREAS, an affected resident has stated that FDOT expressed only two families would be displaced or placed within hardship due to this construction project which is completely false and has been misleading during the decision making phase of this project; and

WHEREAS, many of the families affected by this proposed road closing in multiple counties will be placed in peril related to health care and emergency response by requiring more than twenty eight miles of alternate routing and up to forty five (45) minutes of response time; and

WHEREAS, the nearest medical assistance is in Leon County which will not be accessible without more than tripling the commute time and distance which will cause additional financial hardship upon families not capable of the increased cost of transportation; and

WHEREAS, children attending Woodville Elementary will have additional hardships, an autistic child and a child with severe learning disabilities along with their siblings have been granted permission for alternate school attendance will require almost one hundred miles per day additional commute from the detour; neither of these families having the ability to absorb additional costs for commute; and

WHEREAS, the families affected by this proposed road closing in multiple counties will be closed off from other daily needs such as banks, grocery stores, gas stations, feed and hardware stores, medical facilities, recreation, businesses and day care; and

WHEREAS, commuting from both sides of the proposed bridge closing will impede employees travel to work in Wakulla and Leon Counties from Jefferson and Madison Counties; as well as employees travel to Jefferson County from Leon and Wakulla Counties; and

WHEREAS, this proposed road closing will place Jefferson County with increased liability to provide mutual aid to communities outside their jurisdiction much further than acceptable distances from public safety services from Fire, EMS; Police and others; and

WHEREAS, it is the duty of our Local, State and Federal partners to provide wise stewardship of our resources to protect our citizens, a stewardship that is not being shown in this incidence; and

WHEREAS, it is evident all the facts have not been reviewed in making this decision to displace so many citizens from several communities and counties; without proper access to reasonable locations; and

WHEREAS, the installation of a temporary access bridge is well within the FDOT's ability both structurally and financially; and

WHEREAS, environmental impacts from a temporary bridge have been proven to be acceptable within similar areas in the State of Florida; and

WHEREAS, with all the hardships placed on community citizens', job requirements and attendance, educational attendance, health and quality of life expectations; and general human compassion for our fellow persons' daily lives;

NOW, THEREFORE, BE IT RESOLVED, that on the 17th day of February, 2015, the Jefferson County Commission supports a review of decisions made to completely close Natural Bridge Road thereby cutting off citizens from multiple counties; and the Jefferson County Commission request steps be taken to ensure a temporary access be constructed for this bridge project;

PASSED, APPROVED, AND EFFECTIVE on this 17th day of February, 2015.

ATTEST:


Benjamin Bishop, Chairman


Kirk Reams, Clerk of Courts



**BOARD OF
COUNTY COMMISSIONERS**

Ralph Thomas
Chairman, District 1

Randy Merritt
Vice-Chairman, District 2

Howard Kessler, M.D.
District 3

Jerry Moore
District 4

Richard Harden
District 5

J. David Edwards
County Administrator

Heather J. Encinosa
County Attorney
(850) 224-4070

Post Office Box 1263
Crawfordville, FL 32326
(850) 926-0918
(850) 926-0940 FAX

February 4, 2015

Mr. Tommy Barfield,
Secretary, District 3
Department of Transportation
Highway 90 East
Chipley, Florida 32428-0607

RE: FDOT Project No: 413491-1-52-01, Natural Bridge Road Bridge
Replacement

Dear Mr. Barfield:

Citizens living in the area of the above referenced project have voiced concerns to the Board of County Commissioners. It is our understanding that during the construction of the project that no temporary bridge is being provided to the residents in the project area. Residents will have to use an alternative route resulting in traveling as much as 30 miles or more one-way (or an hour or more one-way) to access school, work, and other daily activities.

The lack of a temporary bridge or a shorter alternative route also raises concerns for safety in the event of fire, rescue or emergency medical needs.

On behalf of the Wakulla County Board of County Commissioners, I am respectfully requesting that FDOT consider options to provide a reasonable alternative (i.e., temporary bridge or shorter temporary alternative route) for these residents during the construction of the bridge replacement project.

Sincerely,

David Edwards
County Administrator on behalf of
Wakulla County Board of Commissioners

From: "Vickery, Greg" <Greg.Vickery@dot.state.fl.us>
Date: March 6, 2015 at 9:03:34 AM EST
To: "Mary Ann Lindley" <LindleyM@leoncountyfl.gov>
Cc: "Mike Dew" <Mike.Dew@dot.state.fl.us>, "Tommy Barfield" <Tommy.Barfield@dot.state.fl.us>
Subject: **Natural Bridge Road Bridge Replacement (15-01855)**

Florida Department of Transportation
District Three Administration Building
Office of the District Secretary
Post Office Box 607
Chipley, Florida 32428-0607

March 6, 2015

The Honorable Mary Ann Lindley, Chairwoman
Leon County Board of County Commissioners
301 South Monroe Street
Tallahassee, Florida 32301

Subject: Natural Bridge Road Bridge Replacement

Dear Chairwoman Lindley:

Thank you for your letter of February 11, 2015 regarding the Natural Bridge Road bridge replacement project in southern Leon County.

As you know, Natural Bridge Road and the structure which is to be replaced are not part of the state road system and belong to Leon County. The design and construction of the new bridge is being conducted by FDOT under a partnership agreement with Leon County and is funded with federal dollars.

FDOT takes the concerns about access to critical services that have been raised by impacted citizens, as well as by your fellow elected officials in neighboring counties, very seriously. In order to ensure that these public safety concerns are adequately addressed, we are immediately suspending FDOT activity on the project. Natural Bridge Road will remain open while we discuss the following options with Leon County.

The first option is to change the design of the current project to include a temporary bridge that could be used while the permanent structure is being constructed. This would require additional permitting from the Northwest Florida Water Management District, the Army Corps of Engineers, Leon County Growth and Environmental Management and other regulatory agencies. The delays associated with these permitting actions, as well as the need for additional environmental mitigation and right-of-way acquisition for the footprint of the temporary bridge, would significantly increase the cost of the project. There are restrictions and limitations on the types of funding that can be used for these additional costs, and non-state financial resources would need to be identified before this option could proceed.

Secondly, during the development of the original plans the option of leaving the existing bridge in place and building the new structure on an alignment to the south was discussed. This option would have to resolve the same external factors listed above, and additionally could impact Natural Bridge Battlefield

Historic State Park.

Lastly, another option would be for FDOT to purchase the existing construction contract and transfer the completed design plans over to Leon County Engineering Services. FDOT would continue regular inspections of the bridge to ensure its safety while Leon County determined which course of action to take for replacement of the existing structure.

Thank you again for your letter. I look forward to working with you to resolve our mutual concerns on this important project, and to continuing the strong partnership between Leon County and FDOT.

Sincerely,

/s/ James T. Barfield

James T. Barfield, P.E.
District Secretary

JTB/gv

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

OFF SYSTEM PROJECT AGREEMENT

This Agreement is between the State of Florida Department of Transportation, "DEPARTMENT," and Leon County, Florida, a charter county and political subdivision of the State of Florida, "COUNTY."

1. Highway Bridge Replacement and Rehabilitation Program funds are available to DEPARTMENT for the costs of the replacement, rehab, or inspection of bridges located off of the Federal-aid system under 23 CFR 650.413(c); and

2. Natural Bridge Road Bridge, Bridge No. 554001, requires replacement; and

3. Natural Bridge Road Bridge is on Natural Bridge Road located in Leon County, Florida, a road not on the State Highway System; and

4. The parties acknowledge and agree that any and all real property needed to complete this project has been acquired by the DEPARTMENT as of the date of this Agreement; and

5. The parties agree that it is in the best interest of each party for the DEPARTMENT to utilize federal funds to undertake and to complete all aspects of the bridge replacement work, including but not limited to the design, construction, construction inspection, utilities, permits, and other associated tasks.

NOW THEREFORE, in consideration of the mutual benefits to be derived by the terms of this Agreement, the parties hereby agree as follows:

6. The recitals in paragraphs 1-5 above are true and correct and are made a part of this Agreement.

7. The parties agree that the DEPARTMENT shall undertake and complete Project No. 413491-1-52-01, generally described as the replacement of Bridge No. 554001 over Branch of St. Marks River (the "PROJECT"), from Beginning MP 6.288 to End MP 6.373 on CR 2192. The PROJECT is further described in the construction plans attached hereto, and incorporated herein, as Exhibit "A." The COUNTY shall cooperate with and shall support the DEPARTMENT's work efforts in these regards. The DEPARTMENT shall have final decision authority with respect to the design of the PROJECT and the design review process.

8. The COUNTY shall, by virtue of the approval of this Agreement by the Leon County Board of County Commissioners (the "Board"), consent to and authorize the DEPARTMENT, if necessary, to do all acts necessary, including securing all environmental and regulatory permits and rights of entry associated with the PROJECT. Said authority and action

shall be deemed to include the DEPARTMENT'S exercise of prudent engineering judgment in the design and construction of the PROJECT. The COUNTY, at COUNTY's expense, shall be responsible to establish, in accordance with DEPARTMENT standards, final right of way survey monumentation.

a) Upon completion of the PROJECT, the right-of-way properties acquired by the DEPARTMENT for the PROJECT shall be transferred from the DEPARTMENT to the COUNTY, and the COUNTY shall thereafter be responsible for maintaining said right-of-way acquired by the DEPARTMENT for the PROJECT.

b) The parties acknowledge and agree that one of the properties acquired by the DEPARTMENT for the PROJECT prior to the execution of this Agreement was inadvertently acquired in the COUNTY's name as grantee, as reflected in the warranty deed from St. Joe Timberland Company of Delaware, LLC to COUNTY recorded at O.R. Book 4402, Page 133, Official Records of Leon County, Florida, a copy of which is attached to this Agreement as Exhibit "B." The COUNTY shall, upon a satisfactory review of the title work completed by the DEPARTMENT for such acquisition, make an agenda request to the Board of County Commissioners recommending that said acquisition be ratified and the warranty deed be accepted.

9. The COUNTY shall provide to the DEPARTMENT all documents in its possession necessary to establish encumbrances and encroachments, if any, within the existing COUNTY right of way necessary for completion of the PROJECT. The DEPARTMENT shall be responsible for assuring that all necessary title work has been completed for the acquisition of any additional right of way that is required for the PROJECT, and that any action necessary has been taken to extinguish any interest in or encumbrance or encroachment on such acquired right of way. In the event there is any action necessary to be taken to acquire ownership or to extinguish any interest in or encumbrance or encroachment on any property within the COUNTY'S existing right of way, the COUNTY shall take all actions reasonably requested by the DEPARTMENT to accomplish the ends required. In the event title ownership issues cannot be resolved so as to allow the PROJECT to move forward, the DEPARTMENT retains the right to terminate this Agreement on that basis. Further, the COUNTY acknowledges that the right of way must be cleared of all ownership interests, encumbrances or encroachments within the limits of construction at least 90 days prior to the DEPARTMENT advertising the PROJECT for construction. The DEPARTMENT shall have the sole discretion to determine the need to clear any ownership, encroachment or encumbrance.

10. The COUNTY acknowledges that the DEPARTMENT will be utilizing federal funds on the PROJECT and as a result thereof the COUNTY agrees to maintain the PROJECT in perpetuity according to DEPARTMENT standards. The COUNTY further recognizes and acknowledges that if the DEPARTMENT will be utilizing federal funds on the PROJECT that the National Environmental Policy Act ("NEPA") process will need to be completed and the DEPARTMENT reserves the right to adjust the plans and or design of the PROJECT to meet the needs of the permits. The COUNTY agrees to fully cooperate in the provision of any and all studies and or data that may be necessary for the NEPA process and for all other permit matters.

11. The COUNTY acknowledges and agrees that the Natural Bridge Road right of way, and the improvements and structures located within said right of way, are and will remain under the ownership of the COUNTY and that the DEPARTMENT will not have any ownership interest in the Natural Bridge Road right of way, improvements or structures located thereon. Notwithstanding the requirements hereof, the DEPARTMENT is authorized to temporarily use the COUNTY's existing Natural Bridge Road right of way for construction of the PROJECT and all safety and maintenance responsibility of said right-of-way during construction shall, at the DEPARTMENT's expense, be the responsibility of the DEPARTMENT and its contractor.

12. The parties understand and agree that the DEPARTMENT and the COUNTY shall cooperate with and keep each other well informed of the work efforts and progress of the PROJECT hereunder. In the event change orders or supplemental agreements become necessary during the prosecution of the work, the COUNTY agrees that it will sign all documents necessary to allow the change order to be finalized and to allow the supplemental agreements to be fully executed.

13. All payment and performance bonds shall be issued in favor of the DEPARTMENT. All warranties shall be made in favor of the COUNTY.

14. Upon completion of the PROJECT, the DEPARTMENT shall issue a Notice of Final Acceptance to the contractor with a copy of said notice being provided to the COUNTY. The PROJECT improvements to be constructed by the DEPARTMENT and which the COUNTY agrees to maintain shall be known by the parties as the Natural Bridge Road Bridge Replacement ("IMPROVEMENT"). Except as otherwise provided herein, upon issuance of the Notice of Final Acceptance, the COUNTY shall be immediately responsible for the perpetual maintenance of the IMPROVEMENT. The COUNTY agrees to maintain the IMPROVEMENT in a reasonable manner and with due care in accordance with the Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Florida Greenbook"). The DEPARTMENT shall also have the right to assign interim maintenance responsibility to the COUNTY for specified portions of the PROJECT before the issuance of the Notice of Final Acceptance. Said assignment of maintenance responsibility shall be sent by the DEPARTMENT to the COUNTY in writing with sufficient description to place the COUNTY on notice of the interim maintenance responsibility. Notwithstanding the issuance of the Notice of Final Acceptance, the DEPARTMENT shall have the right to assure completion of any punch list by the contractor. Additionally, the COUNTY understands and agrees that the DEPARTMENT shall transfer all permits to the COUNTY as the operational maintenance entity and the COUNTY agrees to accept said transfer and to become fully responsible to comply with all operational and maintenance conditions of the permits. For purposes of this Agreement, the PROJECT shall be deemed to be complete upon satisfaction of the following conditions:

a) A joint final inspection for the IMPROVEMENT shall be conducted by the DEPARTMENT staff and the COUNTY staff.

b) All necessary permits including, but not limited to, the Stormwater Management Facility Operating Permit, shall be secured and the PROJECT shall be closed out with all permitting agencies by the DEPARTMENT.

c) All warranties on the IMPROVEMENT shall be provided by the DEPARTMENT's contractor for materials and craftsmanship according to the DEPARTMENT's specifications.

15. This Agreement shall become effective as of the date both parties hereto have executed the Agreement and shall continue in full force and effect until the PROJECT is completed by the DEPARTMENT and the IMPROVEMENT has been turned over to the COUNTY by the DEPARTMENT by formal notice from the DEPARTMENT. The DEPARTMENT agrees to complete the PROJECT fully before transferring the IMPROVEMENT to the COUNTY. The DEPARTMENT reserves the right to unilaterally cancel its performance hereunder before construction of the PROJECT begins if it determines that it is in the best interest of the public to do so. This discretion shall include, but shall not be limited to, budgetary and bid cost considerations.

16. Pursuant to Section 287.058, Florida Statutes, the DEPARTMENT may unilaterally cancel this Agreement for refusal by the COUNTY to allow public access to all documents, papers, letters or other material subject to the provisions of Chapter 119, Florida Statutes and made or received by the COUNTY in conjunction with this Agreement except for the obligation of the COUNTY to maintain the PROJECT and said Agreement shall be perpetual as to that obligation.

17. In the event that any election, referendum, approval or permit, notice or other proceeding or authorization is required to be undertaken by the COUNTY to enter into this Agreement or to undertake the PROJECT, the COUNTY will expeditiously initiate and consummate, as provided by law, all actions necessary with respect to any such matters with time being of the essence.

18. It is understood that the DEPARTMENT's participation in said PROJECT is subject to Legislative approval of the DEPARTMENT's appropriation request in the work program year that the PROJECT is scheduled;

19. The DEPARTMENT's performance and obligations to pay under this Agreement is contingent upon an annual appropriation by the Legislature. If the DEPARTMENT's funding for this PROJECT is in multiple years, funds approved from the DEPARTMENT'S Comptroller must be received every year prior to costs being incurred.

20. In the event this Agreement is in excess of \$25,000.00 and has a term for a period of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes are hereby incorporated:

"The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The

FPID #: 413491-1-52-01
COUNTY: Leon
FAP #: 00B3-059-B

department shall require a statement from the comptroller of the Department that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding 1 year but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid in succeeding fiscal years, and this paragraph shall be incorporated verbatim in all contracts of the Department which are for an amount in excess of \$25,000.00 and which have a term for a period of more than 1 year.”

21. This Agreement shall be governed by the laws of the State of Florida. Any provision hereof found to be unlawful or unenforceable shall be severable and shall not affect the validity of the remaining portions hereof.

22. COUNTY:

a) Shall 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) Shall expressly require any subcontractors performing work or providing services pursuant to the state contract 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.

23. All notices required pursuant to the terms hereof may be sent by first class United States Mail, facsimile transmission, hand delivery or express mail and shall be deemed to have been received by the end of five business days from the proper sending thereof unless proof of prior actual receipt is provided. Each party hereto shall have the continuing obligation to notify each other of the appropriate persons for notices to be sent to pursuant to the terms of this agreement. Unless otherwise notified in writing, notices shall be sent to the following:

COUNTY:
Leon County, Director of Public Works
2280 Miccosukee Road
Tallahassee, FL 32308

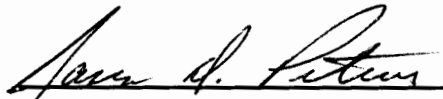
DEPARTMENT:
Florida Department of Transportation
Director of Transportation Development
1074 US Highway 90 East
Chipley, FL 32428

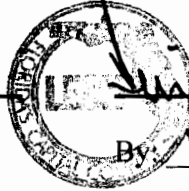
FPID #: 413491-1-52-01
COUNTY: Leon
FAP #: 00B3-059-B


IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the dates exhibited by the signatures below.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

LEON COUNTY, a charter county and
political subdivision of the State
of Florida


By: JASON D. PETERS
(Print Name)



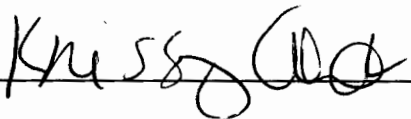

By: Vincent S. Long
(Print Name)

Title: DIR. OF TRANS. DEV.
(Print Title)


Title: County Administrator
(Print Title)

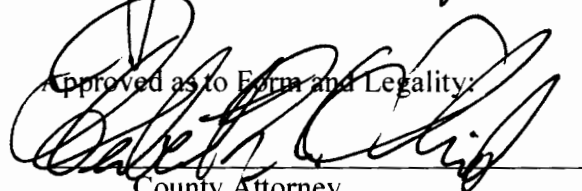
Date: 4/3/13

Date: 3/13/13

Attest: 

Attest: John Stott, Deputy Clerk
Clerk of Court

Legal Review:

Office of the General Counsel

Approved as to Form and Legality:

County Attorney

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	DRAINAGE MAP
4 - 5	TYPICAL SECTIONS
6 - 9	SUMMARY OF QUANTITIES
10 - 11	PROJECT CONTROL
12 - 13	GENERAL NOTES
14	PLAN/PROFILE
15	DRAINAGE DETAIL
16	ROADWAY SOIL SURVEY
17 - 24	CROSS SECTIONS
25 - 26	STORMWATER POLLUTION PREVENTION PLAN
27	WETLAND IMPACTS
28 - 30	TRAFFIC CONTROL PLAN
31	SELECTIVE CLEARING
32	SIGNING & MARKING DETAILS
TR 1 - TR 22	TREE SURVEY

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2001,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2001,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: JUL 01, 2011

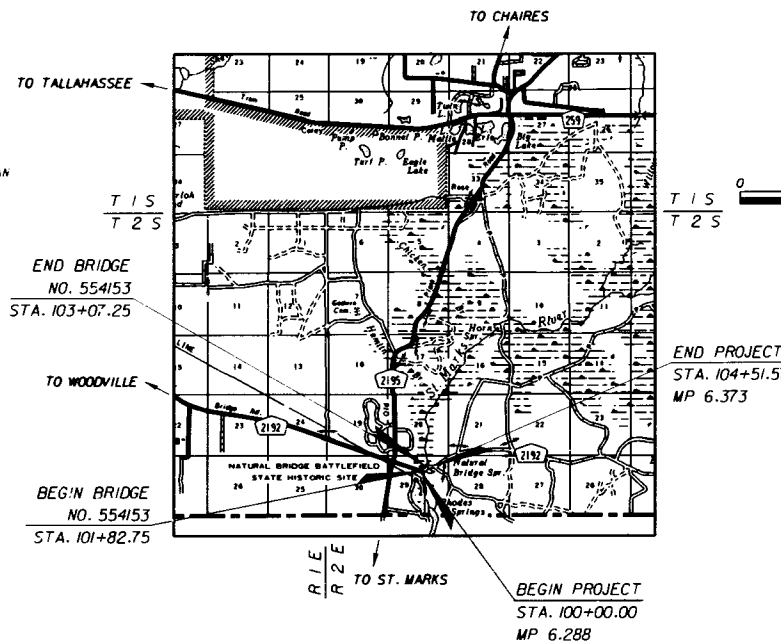
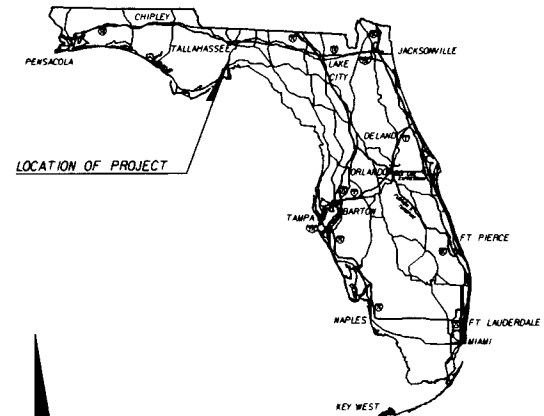
For Design Standards Modifications click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 413491-1-52-01
(FEDERAL FUNDS)
LEON COUNTY (55030)
COUNTY ROAD NO. 2192

CONSTRUCTION CONTRACT NO. T3408



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

MICHAEL J. WOODARD, P.E.
2940 EAST PARK AVENUE, SUITE 200
TALLAHASSEE, FL 32301

PLANS PREPARED BY:

LOCHNER

H.W. LOCHNER, INC.
CONSULTING ENGINEERS AND PLANNERS
2940 EAST PARK AVENUE, SUITE 200
TALLAHASSEE, FL 32301
TELEPHONE NO. (850) 656-9027
CONTRACT NO. C-8816
VENDOR NO. 36-2338811
FBPR CERTIFICATE OF AUTH. #894

MICHAEL J. WOODARD, P.E.
P.E. # 47736

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

PHASE IV PLANS
DECEMBER 2011

ROADWAY PLANS
ENGINEER OF RECORD: MICHAEL J. WOODARD, P.E.

P.E. NO. 47736

FISCAL YEAR	SHEET NO.
2014	1

PROJECT LENGTH IS BASED ON $\frac{1}{2}$ OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	327.07	0.062
BRIDGES	124.50	0.023
NET LENGTH OF PROJECT	451.57	0.085
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	451.57	0.085

FDOT PROJECT MANAGER: DONALD ROGERS, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

Project Description: Natural Bridge Road over a Branch of St. Marks River

Exhibit "A"

Page A1 of 85

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS

DATE: 12/19/11 LEAD PROJECT : 41349115201 COUNTY : LEON
PROJECT(S) : 41349115201 COUNTY/SECTION : 55030000 MANDIST: 03

0002 SUMMARY OF ROADWAY

P	ALT	ITEM	ITEM	UNIT	QUANTITY	TOTAL
C	NUMBER	DESCRIPTION				
		10101-1-	MAINTENANCE OF TRAFFIC (41349115201)	ILS	1,000	1,000
		10102-1-	WORK ZONE SIGN	IED	1,293,000	1,293,000
		10102-74-1	BARRICADE, TEMPORARY, TYPES 1, 11, O1, VP & DRUM	IED	1681,000	1681,000
		10102-74-2	BARRICADE, TEMPORARY, TYPE 111, 6"	IED	1558,000	1558,000
		10102-77-	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	IED	974,000	974,000
		10102-99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	IED	420,000	420,000
		10104-10-3	SEDIMENT BARRIER	ILF	788,500	788,500
		10104-11-	FLOATING TURBIDITY BARRIER	ILF	53,600	53,600
		10104-12-	STACKED TURBIDITY BARRIER- NYLON REINFORCED PVC	ILF	280,400	280,400
		10107-1-	LITTER REMOVAL	IAC	1,600	1,600
		10107-2-	MOWING	IAC	1,600	1,600
		10110-1-	CLEARING & GRUBBING (41349115201)	ILS	1,000	1,000
		10120-1-	IRREGULAR EXCAVATION	ICY	236,000	236,000
		10120-6-	EMBANKMENT	ICY	115,000	115,000
		10160-4-	TYPE B STABILIZATION	ISY	1188,000	1188,000
		10162-11-	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	ISY	927,000	927,000
		10285-701-	OPTIONAL BASE, BASE GROUP 01	ISY	118,000	118,000
		10285-706-	OPTIONAL BASE, BASE GROUP 06	ISY	581,000	581,000
		10334-1-	SUPERPAVE ASPH CONC, TRAF B, PG76-22	ITW	74,700	74,700
		10339-1-	MISCELLANEOUS ASPHALT PAVEMENT	ITW	13,700	13,700
		10520-2-	CONCRETE CURB, TYPE D	ILF	58,200	58,200
		10524-1-	CONCRETE DITCH PAVT, NON REINFORCED, 3"	ISY	4,000	4,000
		10530-3-	IRIPRAP, RUBBLE, F81, DITCH LINING	ITW	2,100	2,100
		10536-1-	GUARDRAIL - ROADWAY	ILF	388,000	388,000
		10536-73-	GUARDRAIL REMOVAL	ILF	480,000	480,000
		10536-85-22	GUARDRAIL END ANCHORAGE ASSEMBLY - FLAREO	IEA	4,000	4,000
		10570-1-	PERFORMANCE TURF	ISY	483,000	483,000
		10570-1-	PERFORMANCE TURF, 500	ISY	217,000	217,000
		10999-25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (41349115201)	ILS	1,000	1,000

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS

DATE: 12/19/11 LEAD PROJECT : 41349115201 COUNTY : LEON
PROJECT(S) : 41349115201 COUNTY/SECTION : 55030000 MANDIST: 03

0001 SUMMARY OF STRUCTURES

P	ALT	ITEM	ITEM	UNIT	QUANTITY	TOTAL
C	NUMBER	DESCRIPTION				
		10110-3-	REMOVAL OF EXISTING STRUCTURE (41349115201)	ILS	1,000	1,000
		10400-2-4	CONC CLASS 11, SUPERSTRUCTURE	ICY	176,900	176,900
		10400-2-5	CONCRETE CLASS 11, SUBSTRUCTURE	ICY	45,300	45,300
		10400-2-10	CONCRETE CLASS 11, APPROACH SLABS	ICY	66,800	66,800
		10415-1-	REINFORCING STEEL - SUPERSTRUCTURE	ILB	47,383,000	47,383,000
		10415-1-	REINFORCING STEEL - SUBSTRUCTURE	ILB	3856,000	3856,000
		10415-1-	REINFORCING STEEL - APPROACH SLABS	ILB	11832,000	11832,000
		10455-35-22	STEEL PILING, 24" DIA, PIPE	ILF	1065,000	1065,000
		10455-144-22	TEST PILES - STEEL, 24" DIA PIPE	ILF	430,000	430,000
		10458-1-	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, IR/PURPOSED JOINT WITH BACKER ROD	ILF	52,000	52,000
		10521-5-	CONCRETE TRAFFIC RAILING - BRIDGE, CORRAL W/CURB	ILF	372,000	372,000
		10530-1-	IRIPRAP, SAND-CEMENT	ITW	34,700	34,700
		10530-3-	IRIPRAP - RUBBLE, BANK AND SHORE	ITW	181,500	181,500
		10530-74-	BEDDING STONE	ITW	62,900	62,900

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS

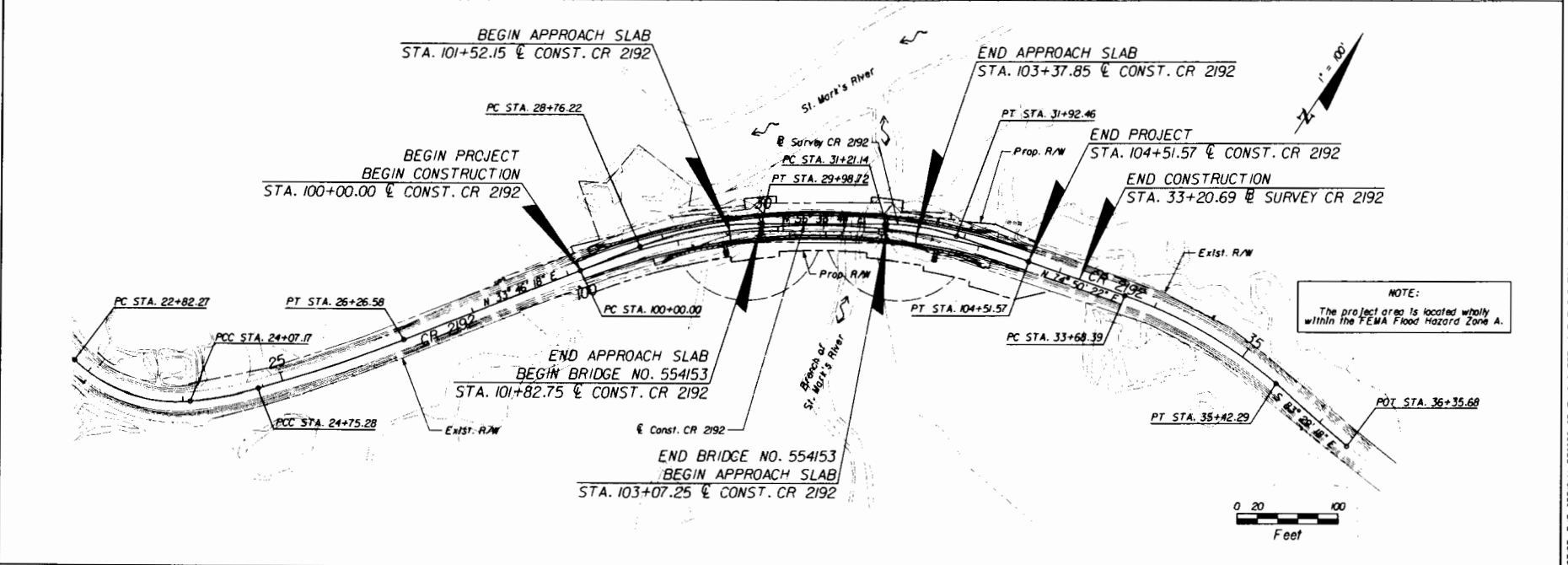
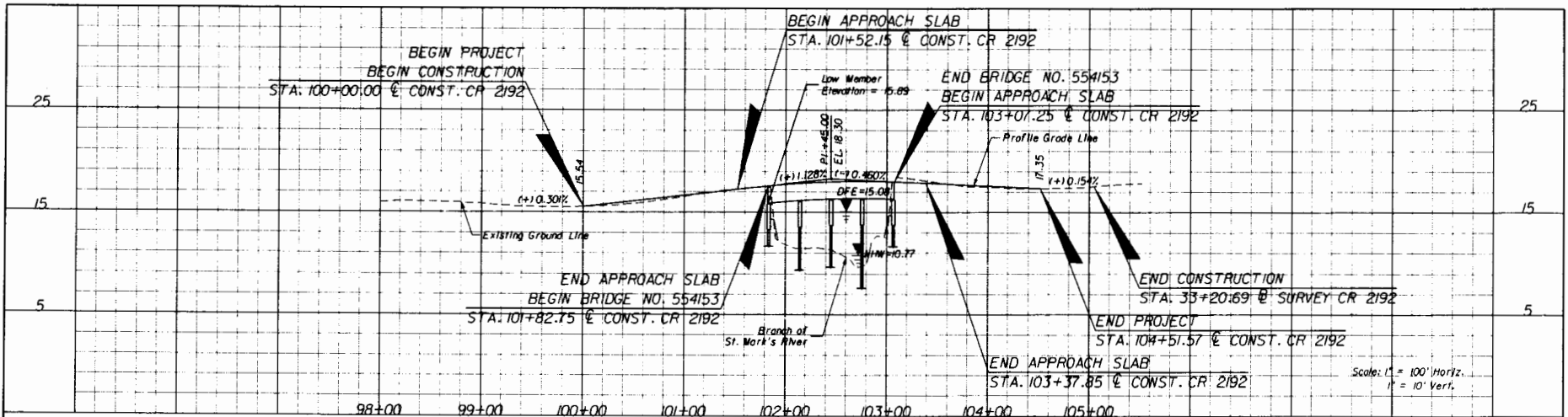
DATE: 12/19/11 LEAD PROJECT : 41349115201 COUNTY : LEON
PROJECT(S) : 41349115201 COUNTY/SECTION : 55030000 MANDIST: 03

0003 SUMMARY OF SIGNING

P	ALT	ITEM	ITEM	UNIT	QUANTITY	TOTAL
C	NUMBER	DESCRIPTION				
		10700-20-60	SINGLE POST SIGN, REMOVE	IAS	10,000	10,000
		10710-90-	PAVED PAVEMENT MARKINGS, FINAL SURFACE (41349115201)	ILS	1,000	1,000

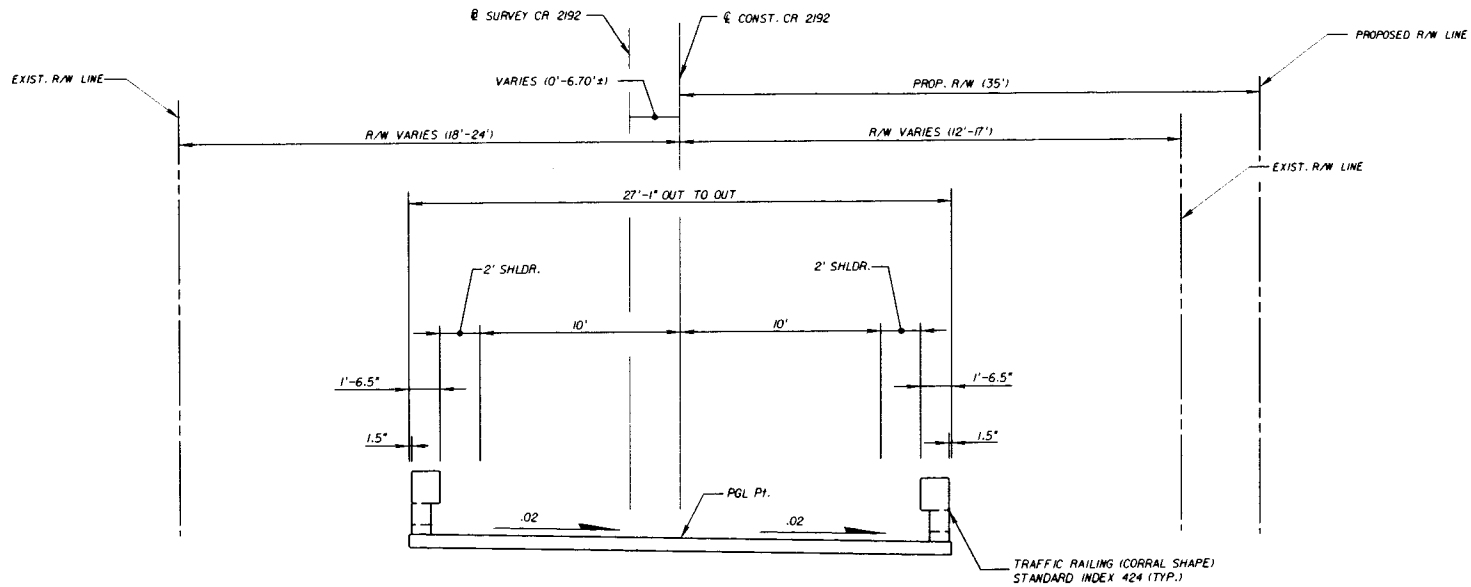
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	DESCRIPTION	DATE	DESCRIPTION					<p>LOCHNER</p> <p>2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32310 FBPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 4716</p>	<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>CR 2192</td> <td>LEON</td> <td>413491-1-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CR 2192	LEON	413491-1-52-01	<p>SUMMARY OF PAY ITEMS</p>	<p>SHEET NO. 2</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																	
CR 2192	LEON	413491-1-52-01																	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6065-23.001, F.A.C.



REVISIONS				LOCHNER	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				3748 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 814 NATALIE BRITZ ZIERDEN, P.E. # 64872	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	DRAINAGE MAP
					CR 2192	LEON	413491-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60D5-23.003, F.A.C.



TRAFFIC DATA

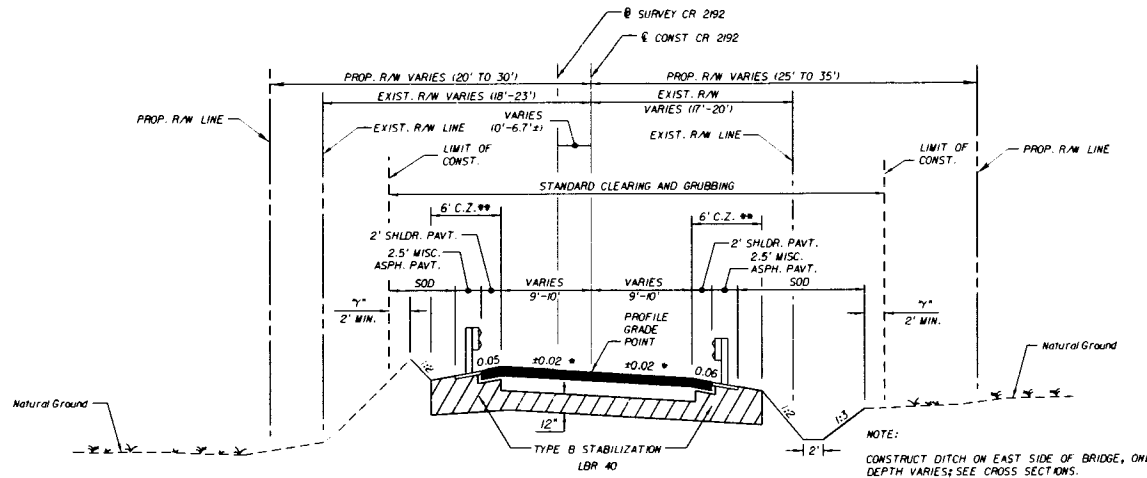
NOT AVAILABLE
DESIGN SPEED = 25 MPH

TYPICAL SECTION #1
CR 2192 (NATURAL BRIDGE ROAD)
STA. 101+52.15 TO STA. 103+37.85

Note:
See Structure Plans for details.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.

REVISIONS				LOCHNER 2500 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47716	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
				CR 2192	LEON	413491-1-52-01			



- * PART OF ROADWAY IS SUPERELEVATED WITHIN PROJECT LIMITS.
- ** DESIGN CLEAR ZONE DOES NOT APPLY TO CLEAR ZONE WIDTHS FOR WORK ZONES.

TYPICAL SECTION #2
CR 2192 (NATURAL BRIDGE ROAD)
STA. 100+00.00 TO STA. 101+52.15
STA. 103+37.85 TO STA. 104+51.57

NOTE:
CONSTRUCT DITCH ON EAST SIDE OF BRIDGE, ONLY.
DEPTH VARIES; SEE CROSS SECTIONS.

TRAFFIC DATA

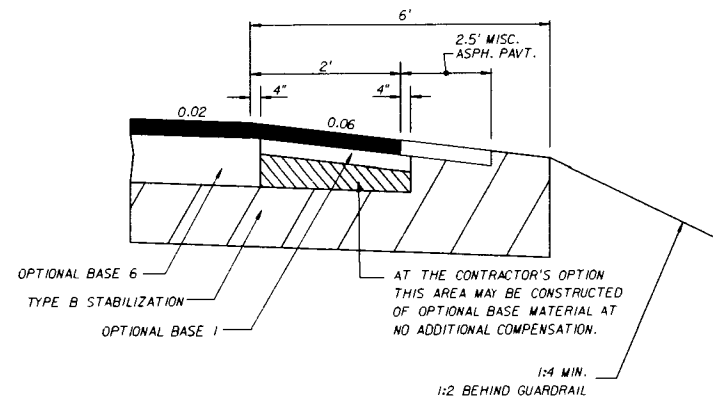
NOT AVAILABLE
DESIGN SPEED = 25 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(2") (PG 76-22)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(2") (PG 76-22)



SHOULDER PAVEMENT DETAIL

REVISIONS		LOCHNER	STATES OF FLORIDA			SHEET NO.
DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
		2949 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 094 MICHAEL J. WOODARD, P.E. # 47734	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	5
			CR 2192	LEON	413491-1-52-01	

TYPICAL SECTIONS

PAY ITEM NOTES

110- 1- Includes the following items:

- * 1,200 LF of Hog Wire and 1,200 LF of Orange Mesh for tree protection.
- * 20' of 12 gauge wire and either (A) 220 2"x4"x8' or (B) 150 2"x6"x8' wooden boards for trunk protection.
- * Selective clearing, tree trimming, and tree pruning.
- * Root pruning and related watering.
- * Weekly inspection and routine grading of 2.3 miles of unpaved sections of Natural Bridge Road and Fanlew Road in Jefferson County included within the detour, as directed by the Engineer.

The cost to furnish and install tree & trunk protection items, and to provide routine roadway inspections & re-grading is incidental to the cost of Clearing & Grubbing.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

REVISIONS				LOCHNER 2940 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32301 PBPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47316	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

SUMMARY OF PERFORMANCE TURF-SOD

LOCATION STA. TO STA.	SIDE	P			F			FIELD BOOK REFERENCE
		L	W	SY	L	W	SY	
NBR Roadway				217.0				
TOTAL:				217.0				

SUMMARY OF EARTHWORK

DESCRIPTION	CY	
	P	F
REGULAR EXCAVATION Natural Bridge Road	236	
EMBANKMENT Natural Bridge Road	115	

* The earthwork quantities have been calculated using the 11merock base option.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL			MOWING			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)	
1	177	30	6	0.26	1.6	6	0.26	1.6	
			TOTAL	P	1.6	TOTAL	P	1.6	
				F			F		

SUMMARY OF DITCH PAVEMENT AND RUBBLE RIPRAP

LOCATION STA. TO STA.	SIDE	RIPRAP (DITCH LINING)		RIPRAP (BANK & SHORE)		NON-REINFORCED CONCRETE, 3"		REMARKS	FIELD BOOK REFERENCE
		TN		TN		SY			
		P	F	P	F	P	F		
101+43.96 to 101+48.08		1.07							
101+42.91 to 101+49.30						1.7			
103+57.44 to 103+61.56		1.07							
103+56.29 to 103+62.67						2.1			
TOTAL		2.1				4			

REVISIONS				LOCHNER 3940 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTHORITY # 894 MICHAEL J. WOODARD, P.E. # 47316	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 2192	LEON	413491-1-52-01		7

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

SUMMARY OF PREPARED SOIL LAYER						
LOCATION	6" ORGANIC SOIL LAYER (SY)		6" FINISH SOIL LAYER (SY)		12" FINISH SOIL LAYER (SY)	
	P	F	P	F	P	F
100+00.00 to 104+51.57			927			

SUMMARY OF MISCELLANEOUS ASPHALT																	
LOCATION STA. TO STA.	SIDE	UNDER GUARDRAIL			BICYCLE PATH			MEDIAN PAVEMENT			TEMPORARY SIDEWALK			OTHER			REMARKS
		THICK (IN)	TN		THICK (IN)	TN		THICK (IN)	TN		THICK (IN)	TN		THICK (IN)	TN		
			P	F		P	F		P	F		P	F		P	F	
100+11.94 to 101+52.15	LT	2.00	4.8														
100+74.50 to 101+52.15	RT	2.00	3.1														
103+37.83 to 104+15.51	LT	2.00	3.0														
103+37.84 to 103+57.67	RT	2.00	0.4														
103+61.33 to 104+15.61	RT	2.00	2.5														
TOTAL			13.7														

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				LOCHNER 3740 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPCR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47736		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01			SUMMARY OF QUANTITIES		SHEET NO. 8
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68B-23.003, F.A.C.

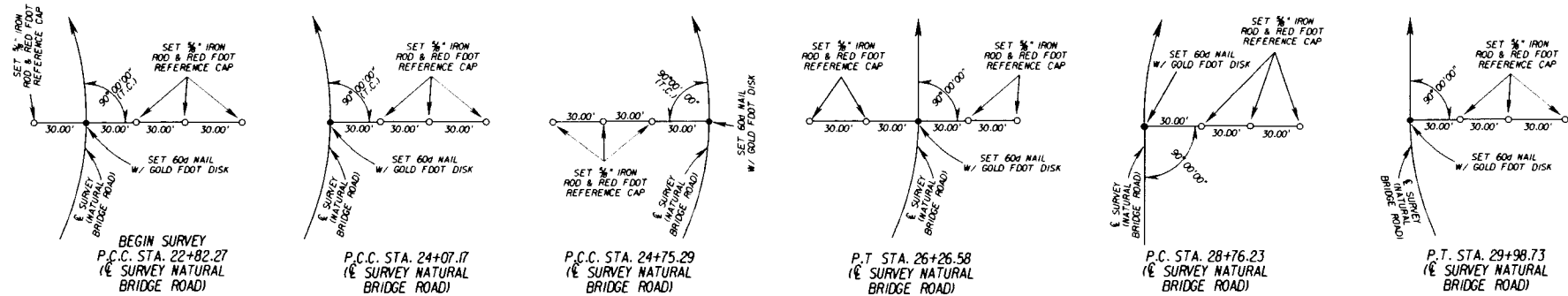
SUMMARY OF GUARDRAIL

LOCATION		GUARDRAIL (LF)										END ANCHORAGE ASSEMBLIES (EA)								REMARKS	FIELD BOOK REFERENCE					
STATION	SIDE	ROADWAY		REMOVAL		MOD. THREE BEAM DOUBLE FACE		PEDESTRIAN SAFETY TREATMENT		RUBRAIL		FLARED		PARALLEL		TYPE II		TYPE CRT								
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F							
FROM 103+23.96	RT	81.3								FROM		FROM														
TO 104+06.77											TO		TO													
FROM 103+24.48	LT	81.3								FROM		FROM														
TO 104+04.24											TO		TO													
FROM 100+83.24	RT	81.3								FROM		FROM														
TO 101+66.04											TO		TO													
FROM 100+24.38	LT	143.8								FROM		FROM														
TO 101+65.52											TO		TO													
FROM 101+21.79	RT				240					FROM		FROM														
TO 103+62.77										TO		TO														
FROM 101+30.76	LT				240					FROM		FROM														
TO 103+64.26										TO		TO														
										FROM		FROM														
										TO		TO														
TOTAL		388			480								4													

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		LOCHNER 2948 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47736	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		CR 2192	LEON	413491-1-52-01		9							

REFERENCE POINTS
(NOT TO SCALE)



B/L STATION	NORTHING (Y)	EASTING (X)	SCALE FACTOR
22+82.27	467151.7835	2078684.2221	0.99995050
24+07.17	467183.5304	2078801.0054	0.99995050
24+75.29	467231.8728	2078848.8641	0.99995051
26+26.58	467353.2402	2078939.0844	0.99995052
28+76.23	467560.7644	2079077.8605	0.99995054
29+98.73	467647.361	2079163.4600	0.99995055

LEGEND

- = SET 5/8" IRON ROD & RED FDOT REFERENCE CAP
- = SET 60d NAIL W/ GOLD FDOT DISK

HORIZONTAL AND VERTICAL CONTROL

- ANY PROJECT CONTROL MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ADMINISTRATOR SHOULD NOTIFY THE DISTRICT SURVEYOR, WITHOUT DELAY, BY TELEPHONE. (850) 415-9400.
- THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/99 HORIZONTAL DATUM. THE VERTICAL DATUM IS BASED ON NAVD 1988.
- HORIZ. INFORMATION FOR BENCHMARKS IS SHOWN TO THE NEAREST FOOT FOR COORDINATES AND THE TENTH OF A SECOND FOR LAT. & LONG. TO BE USED FOR RECON PURPOSES ONLY AND SHOULD NOT BE USED FOR HORIZ. CONTROL.

DESIGNATION	B/L STATION	OFFSET	ELEVATION	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELLIP. HT.	SCALE FACTOR
A1	N/A	N/A	N/A	FOUND 5/8" IRON ROD W/ ORANGE FDOT CAP	468131.3006	2076167.7482	30°17'12.442036"	84°09'31.948730"	N/A	0.99995060
A2	N/A	N/A	24.10	FOUND 5/8" IRON ROD W/ ORANGE FDOT CAP	467369.7032	2078171.2778	30°17'05.041374"	84°09'09.122521"	N/A	0.99995053
A3	23+26.58	14.53 FT RT	15.29	FOUND 5/8" IRON ROD W/ ORANGE FDOT CAP	467136.7572	2078730.3744	30°17'02.520654"	84°09'02.754511"	N/A	0.99995050
A4	26+26.51	11.66 FT RT	15.35	FOUND 5/8" IRON ROD W/ ORANGE FDOT CAP	467346.6867	2078948.7560	30°17'04.582034"	84°09'00.256401"	N/A	0.99995052
A5	29+62.55	12.44 FT LT	16.89	FOUND 5/8" IRON ROD W/ ORANGE FDOT CAP	467634.6744	2079126.6918	30°17'07.437298"	84°08'58.216836"	N/A	0.99995055
210JWM USGS 195	N/A	N/A	23.85	FOUND Poured CONCRETE MONUMENT	467430	2078235	30°17'05.4"	84°09'08.4"	N/A	
55-09-A01V	24+08.44	20.73 FT RT	18.89	FOUND 4" SQUARE MONUMENT W/ FDOT DISK	467169	2078815	30°17'02.8"	84°09'01.8"	N/A	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



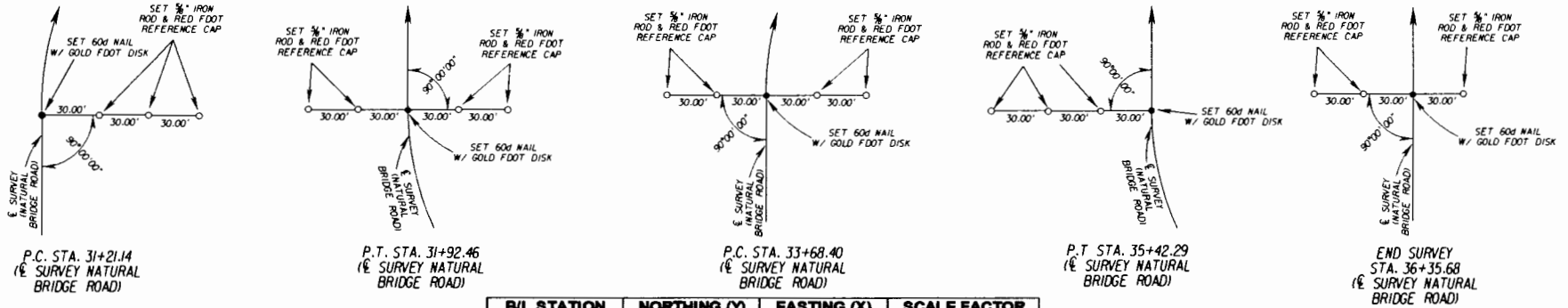
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

PROJECT CONTROL

SHEET NO.
10

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

REFERENCE POINTS
(NOT TO SCALE)



LEGEND

- = SET 5/8" IRON ROD & RED FOOT REFERENCE CAP
- = SET 60d NAIL W/ GOLD FOOT DISK

B/L STATION	NORTHING (Y)	EASTING (X)	SCALE FACTOR
31+21.14	467716.5850	2079264.4167	0.99995056
31+92.46	467746.3576	2079328.8553	0.99995056
33+68.40	467792.3701	2079498.6720	0.99995056
35+42.29	467805.4028	2079671.0353	0.99995057
36+35.68	467794.8120	2079763.8229	0.99995056

HORIZONTAL AND VERTICAL CONTROL

1. ANY PROJECT CONTROL MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ADMINISTRATOR SHOULD NOTIFY THE DISTRICT SURVEYOR, WITHOUT DELAY, BY TELEPHONE, (850) 415-9400.
2. THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/99 HORIZONTAL DATUM. THE VERTICAL DATUM IS BASED ON NAVD 1988.
3. HORIZ. INFORMATION FOR BENCHMARKS IS SHOWN TO THE NEAREST FOOT FOR COORDINATES AND THE TENTH OF A SECOND FOR LAT. & LONG. TO BE USED FOR RECON PURPOSES ONLY AND SHOULD NOT BE USED FOR HORIZ. CONTROL.

DESIGNATION	B/L STATION	OFFSET	ELEVATION	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELLIP. HT.	SCALE FACTOR
A6	33+58.71	9.99 FT LT	17.40	FOUND 5/8" IRON ROD W/ ORANGE FOOT CAP	467799.4745	2079486.7065	30°17'09.057615"	84°08'54.104819"	N/A	0.99995056
A7	N/A	N/A	18.55	FOUND 5/8" IRON ROD W/ ORANGE FOOT CAP	467807.9804	2079916.4825	30°17'09.128666"	84°08'49.202599"	N/A	0.99995057
A8	N/A	N/A	19.70	FOUND 5/8" IRON ROD W/ ORANGE FOOT CAP	468109.9316	2080327.7739	30°17'12.104930"	84°08'44.500807"	N/A	0.99995060
55-09-A02V	N/A	N/A	19.21	FOUND 4" SQUARE MONUMENT W/ FOOT DISK	467845	2079902	30°17'09.5"	84°08'49.4"	N/A	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

PROJECT CONTROL

SHEET NO.
11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

GENERAL NOTES

1. All Exist. R/W control points shown in the plans are measured from the Survey CR 2192.
2. All Prop. R/W and TCE control points shown in the plans are measured from the Const. CR 2192, except where the Prop. R/W and TCEs intersect the existing maintained R/W. These points of intersection are measured from the Survey CR 2192.
3. Any public land survey system corner or any monument that perpetuates the FDOT R/W within the project limits of construction is to be protected by the contractor. If a monument is in danger of being destroyed and has not been properly referenced, the project administrator should notify the District Surveyor, without delay, by telephone at 888-638-0250.
4. Any project control monument within the limits of construction is to be protected. If a monument is in danger of being destroyed and has not been properly referenced, the Engineer should notify the District Location Surveyor, without delay, by telephone at 850-415-9400.
5. All erosion control items and survey stakes shall be removed by the contractor at the completion of the project.
6. If the limerock base option is constructed for the widening or paved shoulder base, the excess limerock from the clipping of the limerock base shall not be spoiled on the shoulders or slopes outside the limits of the base construction. The limerock will be removed from the project site and no additional compensation will be allowed for this removal.
7. If any known or suspected hazardous material is found on the project by the Contractor, notify the DCIC and comply with Section 8-4.9 of the Standard Specifications.
8. The locations of the utilities shown in the plans (including those designated Vv, Vh and Vvh) are based on limited investigation techniques and should be considered approximate only. The verified locations/elevations apply only at the points shown. Interpolations between these points have not been verified.
9. Existing utilities are to remain in place unless otherwise noted. The Contractor shall notify utility owners through Sunshine One Call of Florida, Inc. (1-800-432-4770), the Nationwide Utility Locate toll free number 811 and telephone numbers listed below, two business days in advance of beginning construction on the job site.

Utility/Agency Owner	Contact Person	Telephone Number
Talquin Electric Co-Op, Inc.	Thomas Tadlock	(850) 562-2119
Century Link (or Outsource Inc.)	Thom Duggar	(850) 599-1543
FDOT Utility Coordinator	Mark Williams	(229) 224-9380
	Traci Adkison	(850) 575-1800
		(850) 528-3400

10. Coordinate the disposal of the existing bridge concrete debris with:

Midway Operations Center
Greg Outs, P.E.
17 Commerce Blvd.
Midway, FL 32343
(850) 922-7900

It is the responsibility of the Contractor to deliver the existing bridge concrete debris to the Sheffer Road PII. All other materials removed by the Contractor shall be disposed of in accordance with Section 110-8 of the Standard Specifications.

11. The Contractor is responsible for complying with all of the following permits: Leon County Environmental Management permit, FDEP NPDES permit, NFWMD Environmental Resource permit, and ACOE Federal Dredge and Fill permit.
 12. Any damage to Natural Bridge Road outside the limits of construction as a result of construction activities shall be repaired at no cost to the Department. The Contractor shall resurface any sections of Natural Bridge Road which may be damaged as a result of constructing the new bridge. To this end, pre- and post-construction surveys are to be conducted by the governing parties involved (Contractor and FDOT), along with a video tape of Natural Bridge Road which is associated with the pre- and post-construction start & finish dates. Furthermore, the Contractor shall inspect the condition of all unpaved roadway sections of the detour on a monthly basis, and re-grade any sections as determined by the Engineer.
- Any post construction repair to Natural Bridge Road outside of the project limits will require DEMO to prepare an environmental document prior to any repair work being done. The road contractor shall provide notification in writing to Mrs. Blair Martin P.E, District Environmental Management Engineer, P.O. Box 607, Chipley, FL 32428.
13. If a monitoring well is encountered within or adjacent to the project corridor, and is not shown in the plan, the Contractor shall immediately notify the DCIC or the District Environmental Manager at (850) 638-0250.
 14. Eastern Indigo Snake Protection Measures and Educational Plan
- Habitat for the federally protected eastern indigo snake occurs along the project. The U.S. Fish and Wildlife Service (FWS) requires that their Standard Protection Measures for the Eastern Indigo Snake be implemented during project construction. The following plan will implement the required protection measures:

The Department or its designee shall:

- * Provide an eastern indigo snake educational packet and make an informational presentation to the Contractor's representative(s) at the project Pre-construction conference. The educational packet and presentation will include:
 - o an explanation of the protections afforded the eastern indigo snake under the Endangered Species Act (ESA) of 1973, as amended, including the fines and penalties associated with violations of the ESA for which the contractor could be responsible;
 - o a description of the eastern indigo snake and its habits including reproducible photographs and/or posters;
 - o direction that if an eastern indigo snake enters or is found within the project construction area, all construction activities shall cease and the snake shall be allowed to move away on its own before construction activities may resume;
 - o instruction not to injure, harm, harass, or kill any eastern indigo snake during construction activities;
 - o contact information of all pertinent agencies who shall be immediately notified if a dead eastern indigo snake is encountered, and direction to soak the specimen in water, freeze it, and provide it to the FWS contact person;
 - o instruction that no construction personnel may come in contact with a live eastern indigo snake, unless that individual possesses a FWS section 10(a)(1)(A) permit or is authorized for such activities by the State of Florida through the Florida Fish and Wildlife Conservation Commission (FWC).

REVISIONS				LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 PBPR CERTIFICATE OF AUTH # 894 MICHAEL J. WOODARD, P.E. # 47736	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

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- * Provide the contractor with an example of a sign providing the above information that shall be posted within the construction area.
- * Provide the contractor with a template to use to prepare an eastern indigo snake monitoring report.
- * Transmit the eastern indigo snake monitoring report prepared by the contractor or CEI consultant, to the FWS field office in Panama City, Florida within 60 days of conclusion of construction.

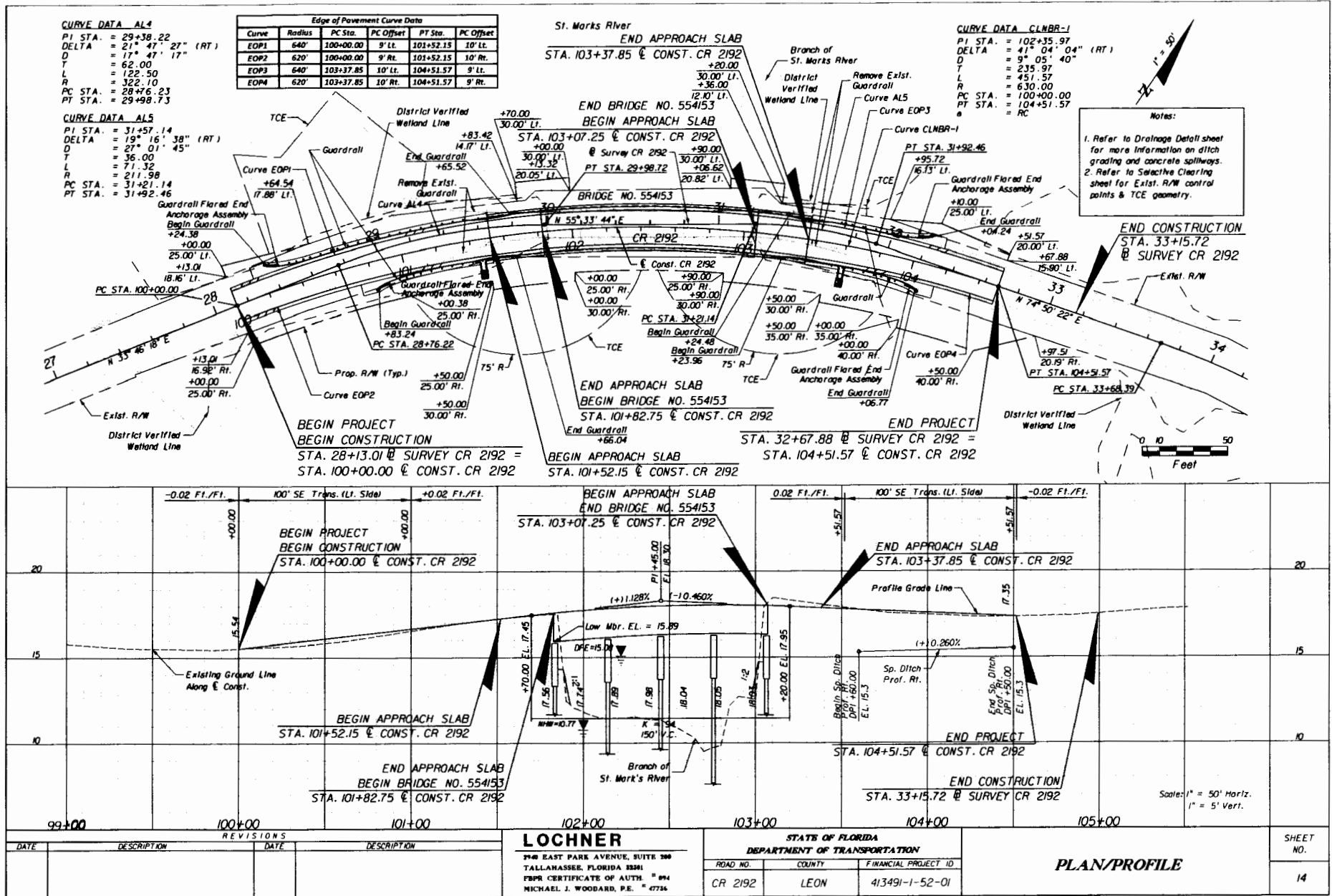
The Contractor and/or Construction Engineering Inspection consultant shall:

- * Utilize the eastern indigo snake educational packet and information received from the Department or its designee at the Pre-construction conference to educate ALL construction and CEI personnel regarding the eastern indigo snake's protected status and the protection measures that must be implemented during construction, including:
 - o an explanation of the protections afforded the eastern indigo snake under the Endangered Species Act (ESA) of 1973, as amended, including the fines and penalties associated with violations of the ESA for which the contractor could be responsible;
 - o a description of the eastern indigo snake and its habits using reproducible photographs and/or posters;
 - o a direction that if an eastern indigo snake enters or is found within the project construction area, all construction activities shall cease and the snake shall be allowed to move away on its own before construction activities may resume.
 - o instruction not to injure, harm, harass, or kill any eastern indigo snake during construction activities.
 - o contact information of all pertinent agencies who shall be immediately notified if a dead eastern indigo snake is encountered, and direction to soak the specimen in water, freeze it, and provide it to the FWS contact person.
 - o instruction that no construction personnel may come in contact with a live eastern indigo snake, unless that individual possesses a FWS section 10(a)(1)(A) permit or is authorized for such activities by the State of Florida through the Florida Fish and Wildlife Conservation Commission (FWC).
- * Post signs within the construction area containing the information provided above.
- * Prepare an eastern indigo snake monitoring report using the template provided by the Department and addressing all items listed in the template report. The monitoring report shall be submitted to the Department's District 3 Environmental Management Office within 45 days of the conclusion of construction activities. The report shall be submitted to the Department whether or not eastern indigo snakes are observed.

15. During the construction re-evaluation, DEMO will perform a pre-construction survey for eagles.
16. During the construction re-evaluation, DEMO will schedule a pre-construction survey for gopher tortoises. In accordance with FWC regulations, tortoises will be relocated prior to construction or if avoidance is possible, appropriate notes and guidance to the contractor will be included in the project design plans. DEMO will coordinate with the Florida Fish and Wildlife Conservation Commission as appropriate.
17. Per FDOT Specification 8-6.4, Suspension of Contractor's Operations Holidays and Special Events. Special Event days for this project include: Battle of Natural Bridge Re-enactment in March.
18. Pre-construction conference is required with the County Environmental Inspector prior to the initiation of construction activities.
19. Leon County will be the maintaining agency. Therefore, a final inspection by the maintaining agency's representative will be required prior to final acceptance of the contract by the Department.
20. The stormwater management control officer will be determined during the pre-construction meeting.

REVISIONS				LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FWRP CERTIFICATE OF AUTH. # 094 MICHAEL J. WOODARD, P.E. # 47736	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 2192	LEON	413491-1-52-01		

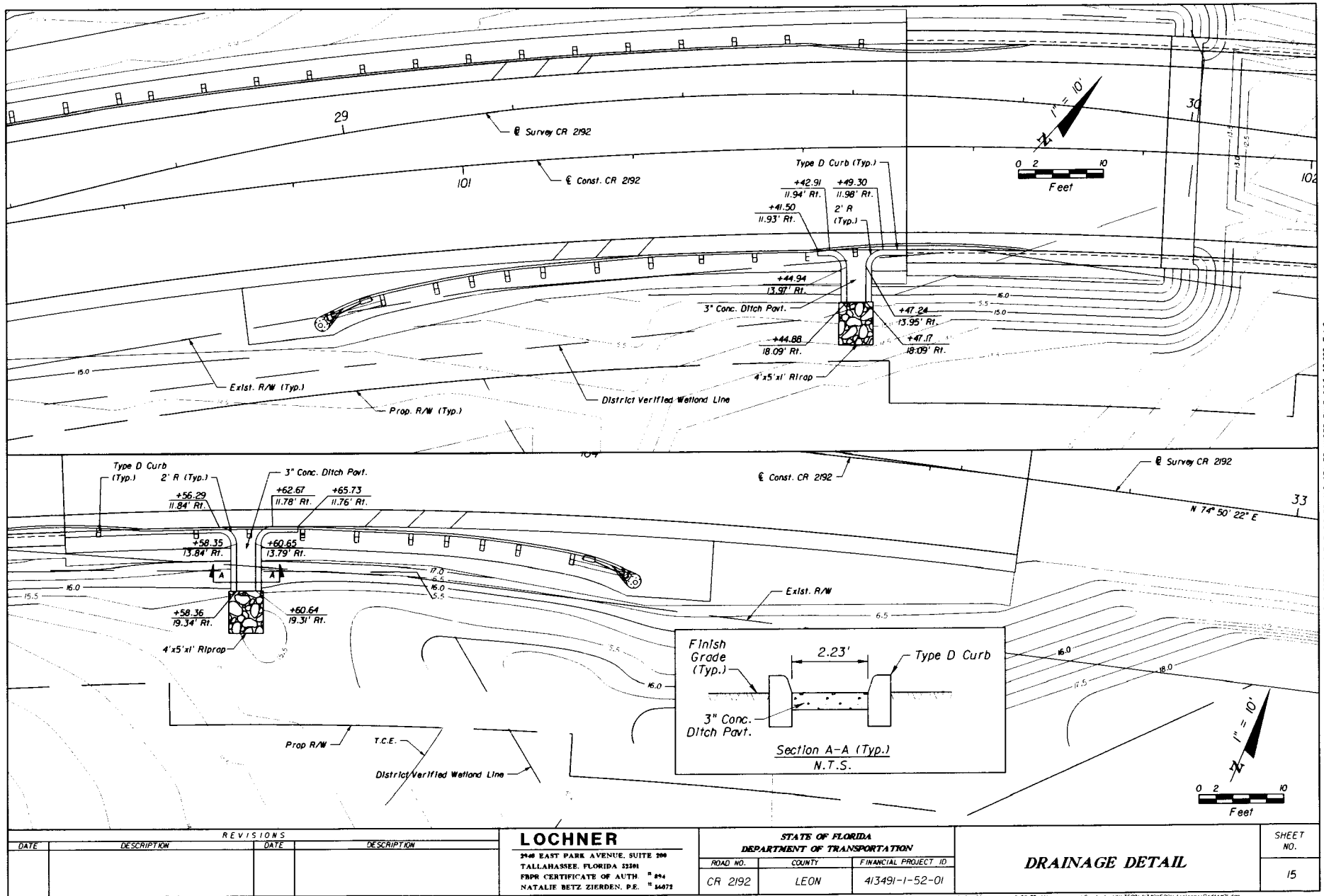
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REVISIONS				LOCHNER 2740 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 094 MICHAEL J. WOODARD, P.E. # 47316	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN/PROFILE	SHEET NO. 14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			



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REVISIONS		REVISIONS		LOCHNER 2140 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 894 NATALIE BETZ ZIERDEN, P.E. # 66073	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE DETAIL	SHEET NO. 15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: DECEMBER 2011
SURVEY MADE BY: ENVIRONMENTAL AND GEOTECHNICAL
SPECIALIST, INC.
SUBMITTED BY: THOMAS H. HAYDEN, P.E.

BRIDGE REPLACEMENT - NATURAL BRIDGE OVER ST. MARKS BRANCH
FINANCIAL PROJECT ID : 413491-1-52-01

DISTRICT: 3
ROAD NO.: NATURAL BRIDGE
COUNTY: LEON

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 100+00.00 SURVEY ENDS STA. : 104+51.57
REFERENCE: CONSTRUCTION & SURVEY

STRATUM NO.	ORGANIC CONTENT			LBR VALUE		SIEVE ANALYSIS RESULTS PERCENT PASS					ATTERBERG LIMITS (%)				COLOR	DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	MOISTURE CONTENT	% ORGANIC	NO. OF TESTS	MAX LBR	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX			AASHTO GROUP	NO. OF TESTS	RESISTIVITY $\Omega\text{-cm}$	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	2	48-60	5	100	74-98	48-95	31-87	6-9	-	-	-	A-3	GRAY	FINE SAND	2	34,000-57,000	25-27	1-6	5.2-5.5
2	--	--	--	2	56-64	2	100	88-97	66-92	42-83	13-16	-	-	-	A-2-4	BROWN AND GRAY	SILTY FINE SAND	2	32,000-36,000	25-30	4	5.9-7.1
3	2	35-72	2.5-4.8	--	--	1	100	97	94	81	9	-	-	-	A-3	DARK GRAY	FINE SAND WITH ORGANICS	1	34,000	25	4	7.0
4	--	--	--	--	--	4	100	90-100	78-98	48-96	25-35	4	21-35	11	A-2-6	GRAY	CLAYEY FINE SAND	2	4,200-4,300	26	14-24	5.3-6.8
5	--	--	--	--	--	1	100	94	92	89	52	1	44	15	A-7-6	GRAY	SANDY CLAY	1	4,100	26	44	6.6
6	3	34-76	10.1-32.9	--	--	1	100	99	97	93	20	-	-	-	A-8	BLACK	ORGANIC SILT	1	5,800	25	18	5.6
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	GRAY	WEATHERED LIMESTONE	-	-	-	-	-

STRATUM NOTES

- STRATA 1 AND 2 ARE "SELECT" SOILS.
- STRATUM 3 IS A "SELECT" SOIL; HOWEVER, THE ORGANIC CONTENT IS BETWEEN 2.5 AND 5.0 PERCENT.
- STRATA 4 AND 5 ARE "PLASTIC" SOILS.
- STRATUM 6 IS A "HIGHLY ORGANIC" SOIL AS DEFINED BY THE FDOT STANDARD DESIGN INDEX 50S.
- REUSE OF THESE STRATA SHALL BE IN ACCORDANCE WITH DESIGN STANDARD INDEX 50S, UNLESS OTHERWISE NOTED IN THE PLANS.
- REMOVAL OF THESE STRATA SHALL BE PERFORMED IN ACCORDANCE WITH DESIGN STANDARD INDEX 500, UNLESS OTHERWISE NOTED IN THE PLANS.

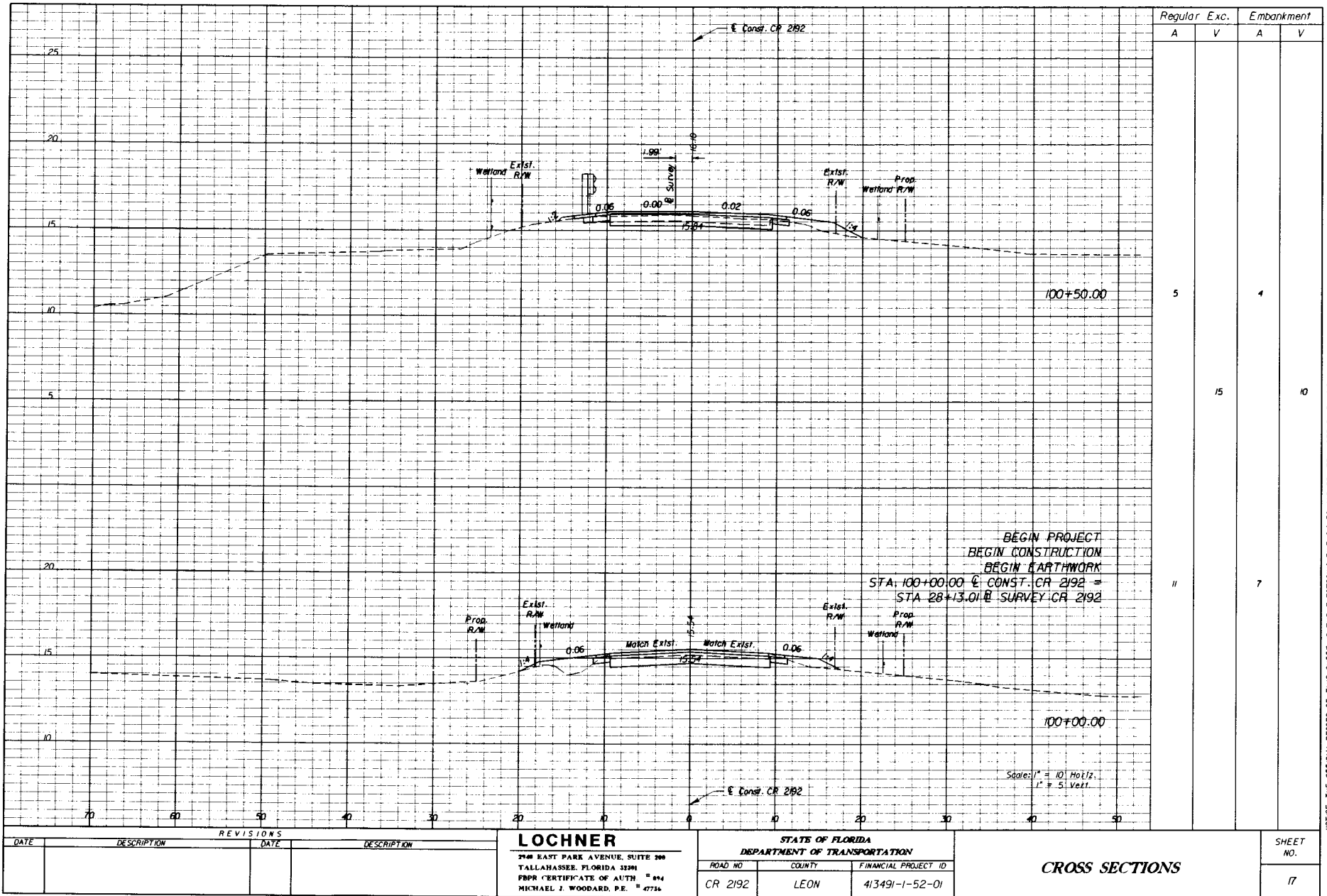
EMBANKMENT AND SUBGRADE MATERIAL
STRATA BOUNDARIES ARE APPROXIMATE
∇ - WATER TABLE ENCOUNTERED
GNE - GROUNDWATER NOT ENCOUNTERED

ADDITIONAL NOTES

- SOIL DESCRIPTIONS AND TEST DATA SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATION. EXTRAPOLATION IS THE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
- WATER LEVELS SHOWN REPRESENT THE WATER ENCOUNTERED AT THE TIME THE SOIL BORING WAS INSTALLED. FLUCTUATIONS IN THE WATER LEVELS SHOULD BE EXPECTED.

REVISIONS				THOMAS H. HAYDEN, P.E. Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 385-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

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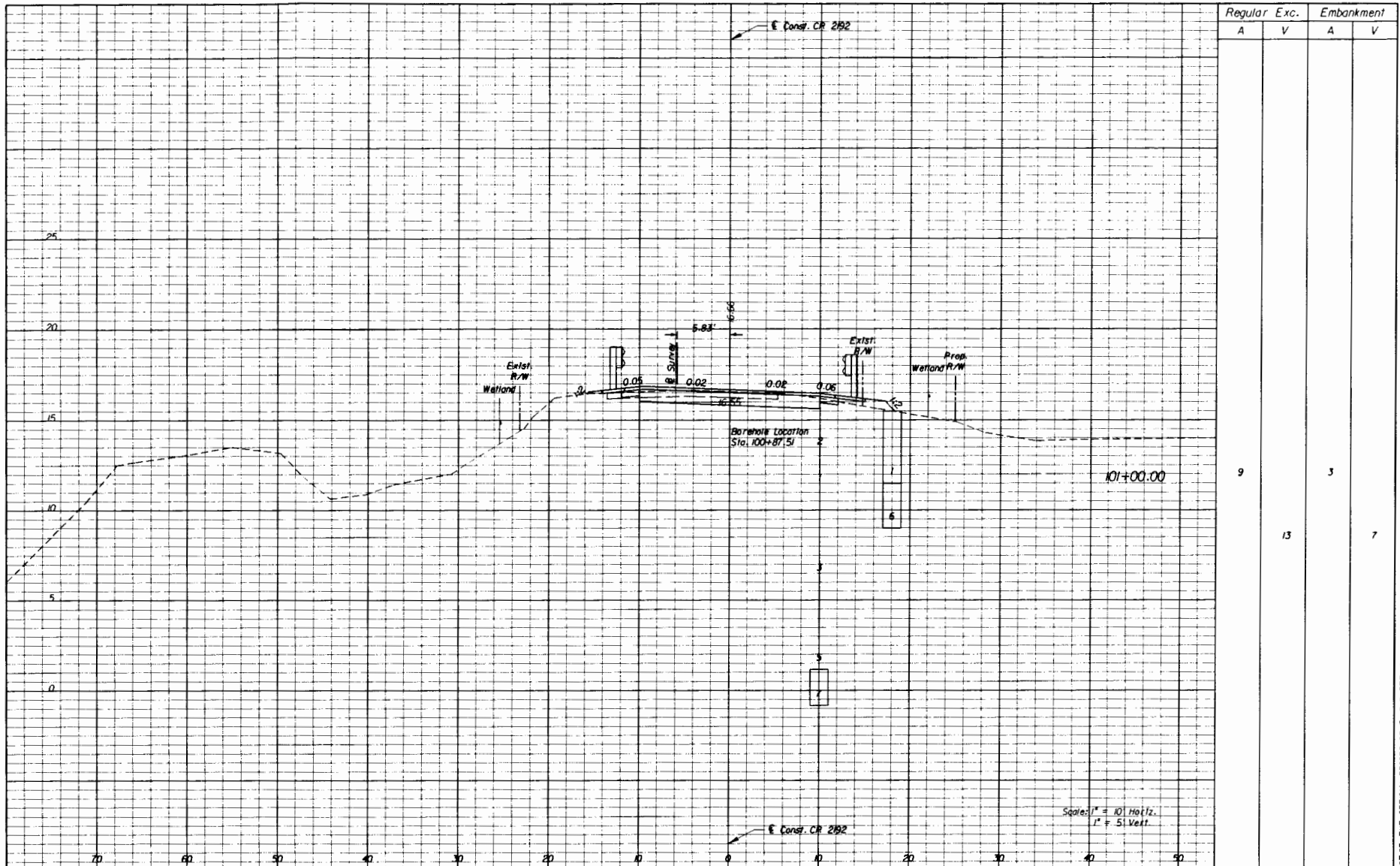
REVISIONS	
DATE	DESCRIPTION

LOCHNER
2740 EAST PARK AVENUE, SUITE 200
TALLAHASSEE, FLORIDA 32304
PBPR CERTIFICATE OF AUTH " 844
MICHAEL J. WOODARD, P.E. " 4734

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

CROSS SECTIONS

SHEET NO.
17

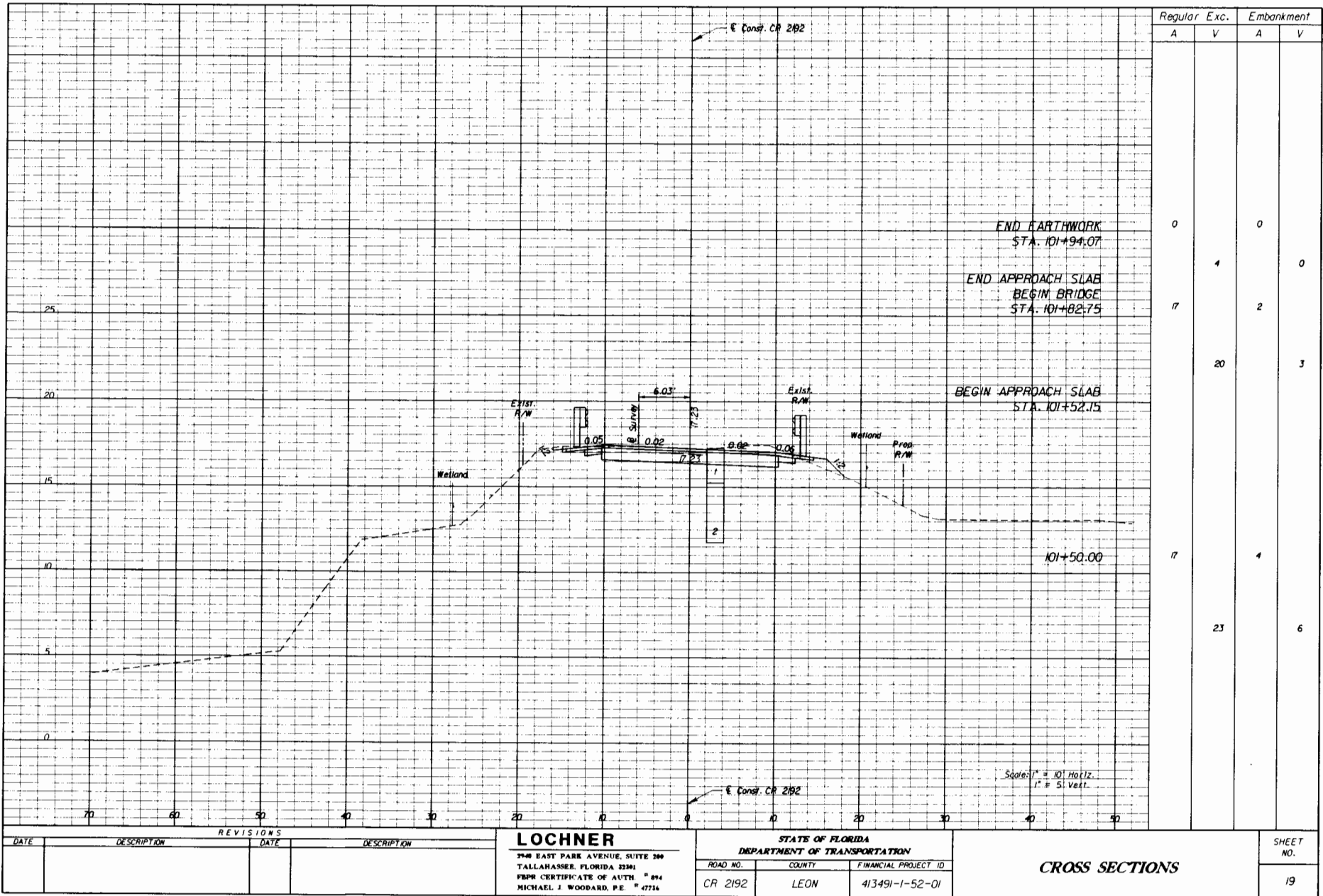


Regular		Exc.		Embankment	
A	V	A	V	A	V
9			13	3	7

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION			<p>LOCHNER 2540 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47734</p>	<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>CR 2192</td> <td>LEON</td> <td>413491-1-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CR 2192	LEON	413491-1-52-01	<p>CROSS SECTIONS</p>	<p>SHEET NO. 18</p>
REVISIONS																	
DATE	DESCRIPTION																
ROAD NO.	COUNTY	FINANCIAL PROJECT ID															
CR 2192	LEON	413491-1-52-01															

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Regular		Exc.		Embankment	
A	V	A	V	A	V
		0		0	
			4		0
		17		2	
			20		3
		17		4	
			23		6

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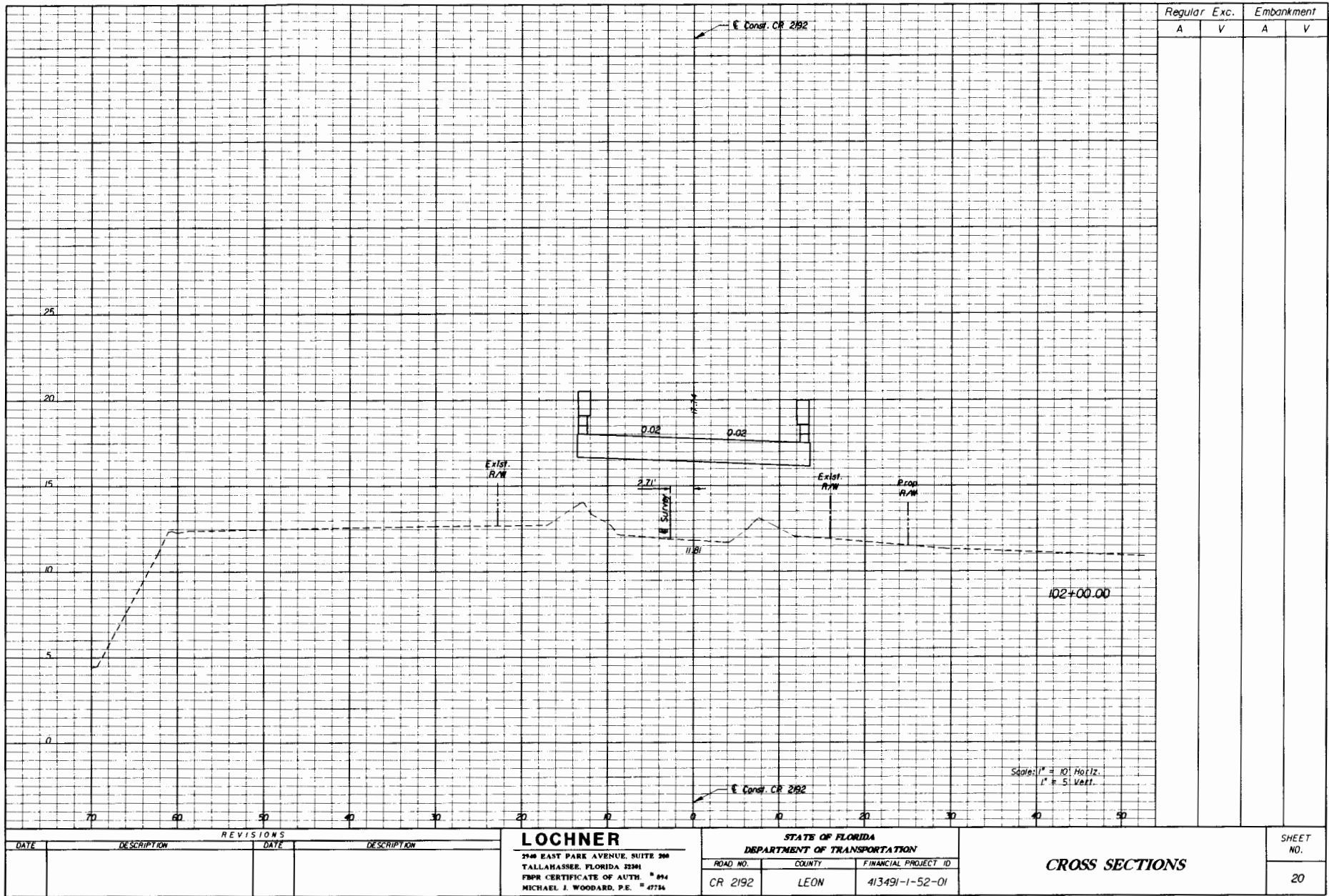
REVISIONS	
DATE	DESCRIPTION

LOCHNER
 3740 EAST PARK AVENUE, SUITE 200
 TALLAHASSEE, FLORIDA 32311
 P.E. CERTIFICATE OF AUTH. # 874
 MICHAEL J. WOODARD, P.E. # 47116

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

CROSS SECTIONS

SHEET NO.
19



Regular		Exc.		Embankment	
A	V	A	V	A	V

REVISIONS	
DATE	DESCRIPTION

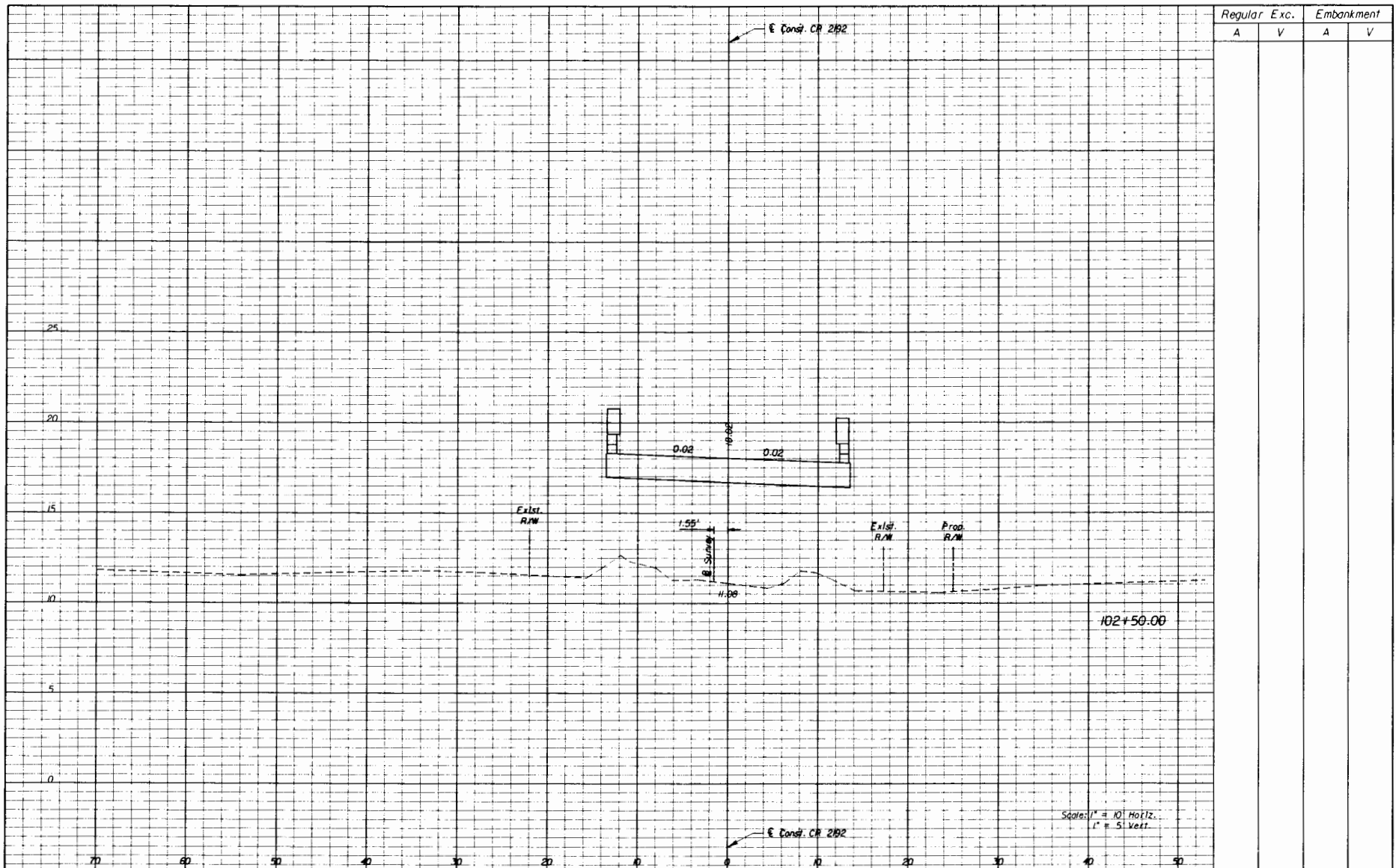
LOCHNER
 2540 EAST PARK AVENUE, SUITE 200
 TALLAHASSEE, FLORIDA 32301
 FBPR CERTIFICATE OF AUTH. # 094
 MICHAEL J. WOODARD, P.E. # 4734

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

CROSS SECTIONS

SHEET NO.
20

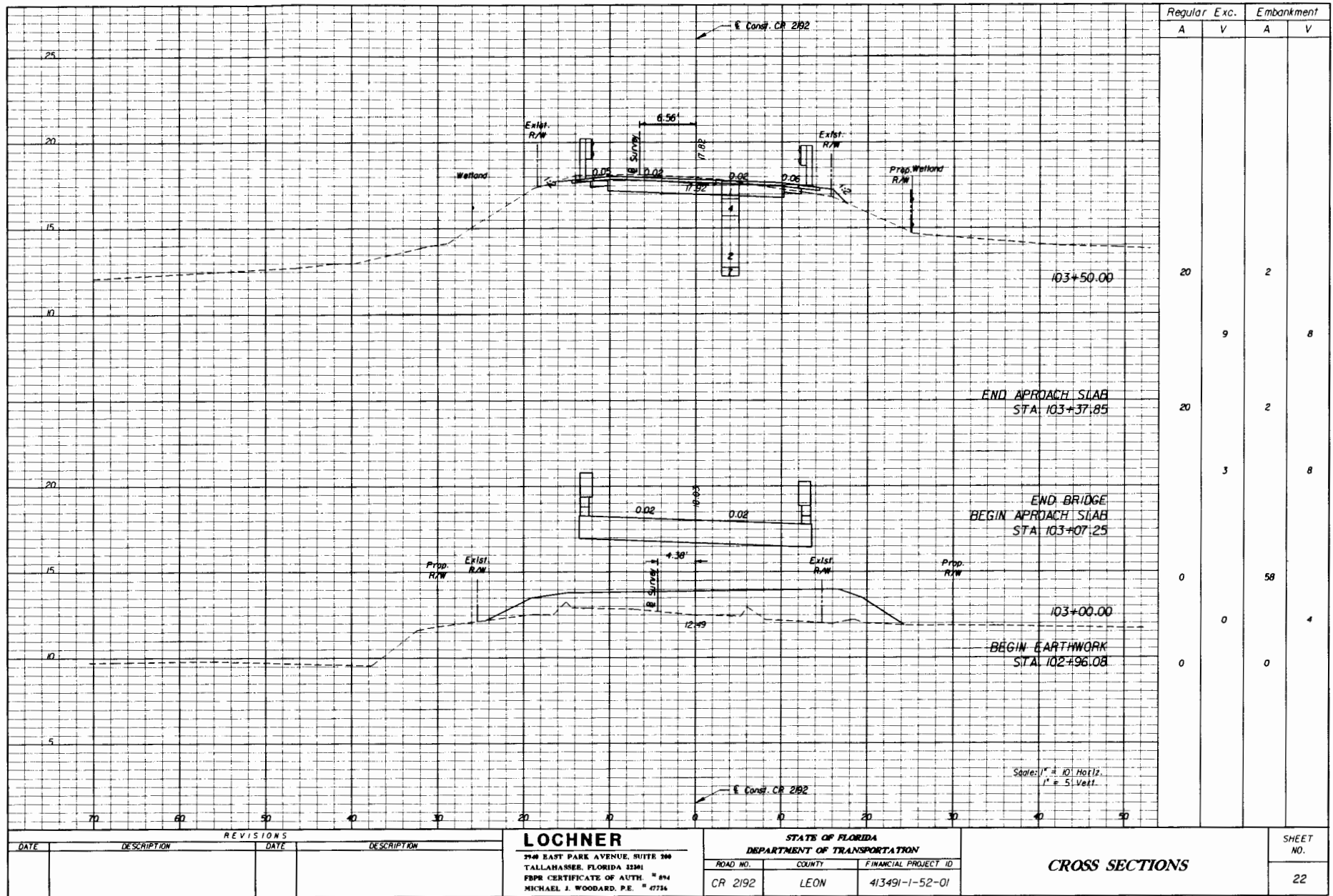
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Regular		Exc.		Embankment	
A	V	A	V	A	V

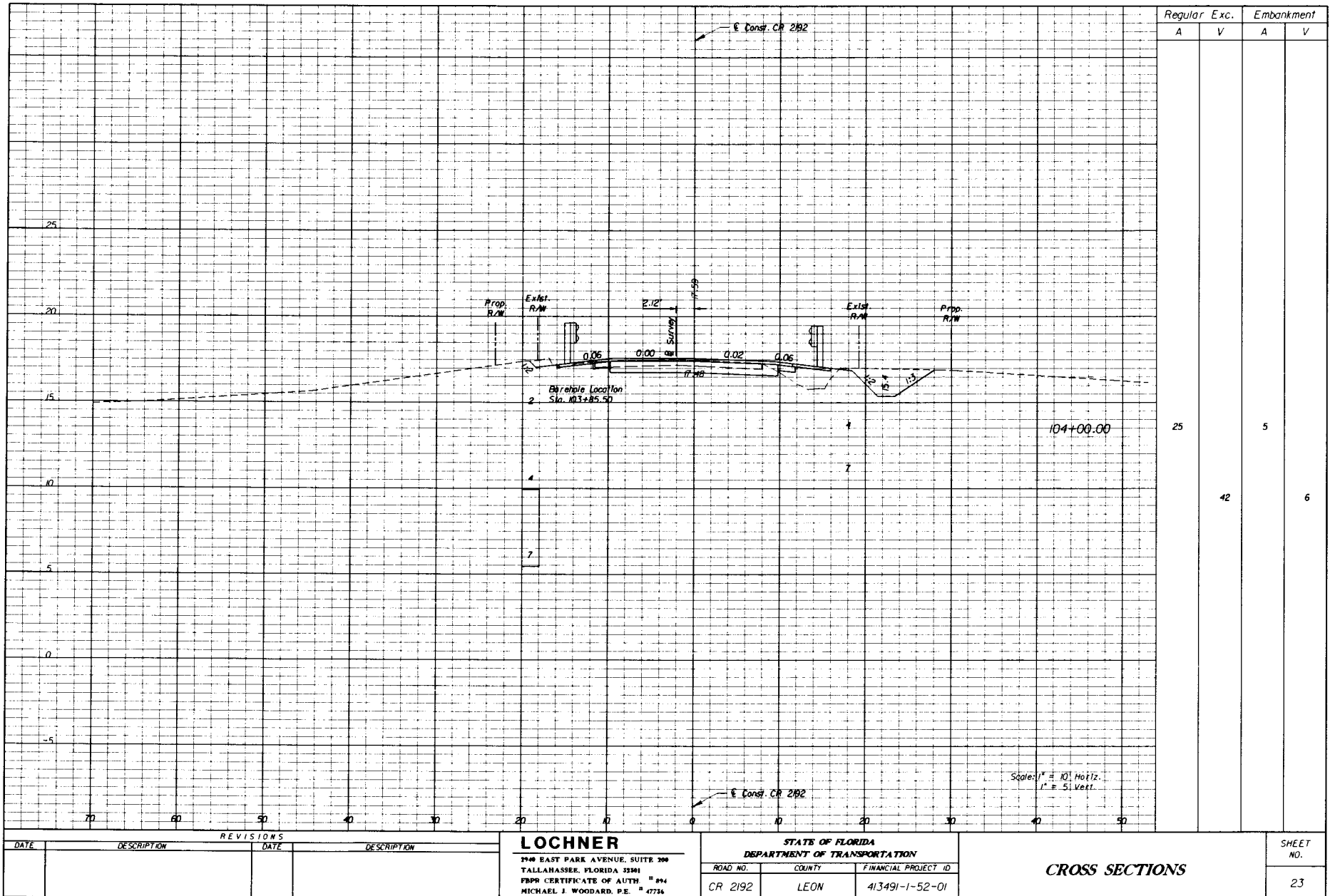
DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION						
LOCHNER 2540 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47734					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01					CROSS SECTIONS SHEET NO. 21				

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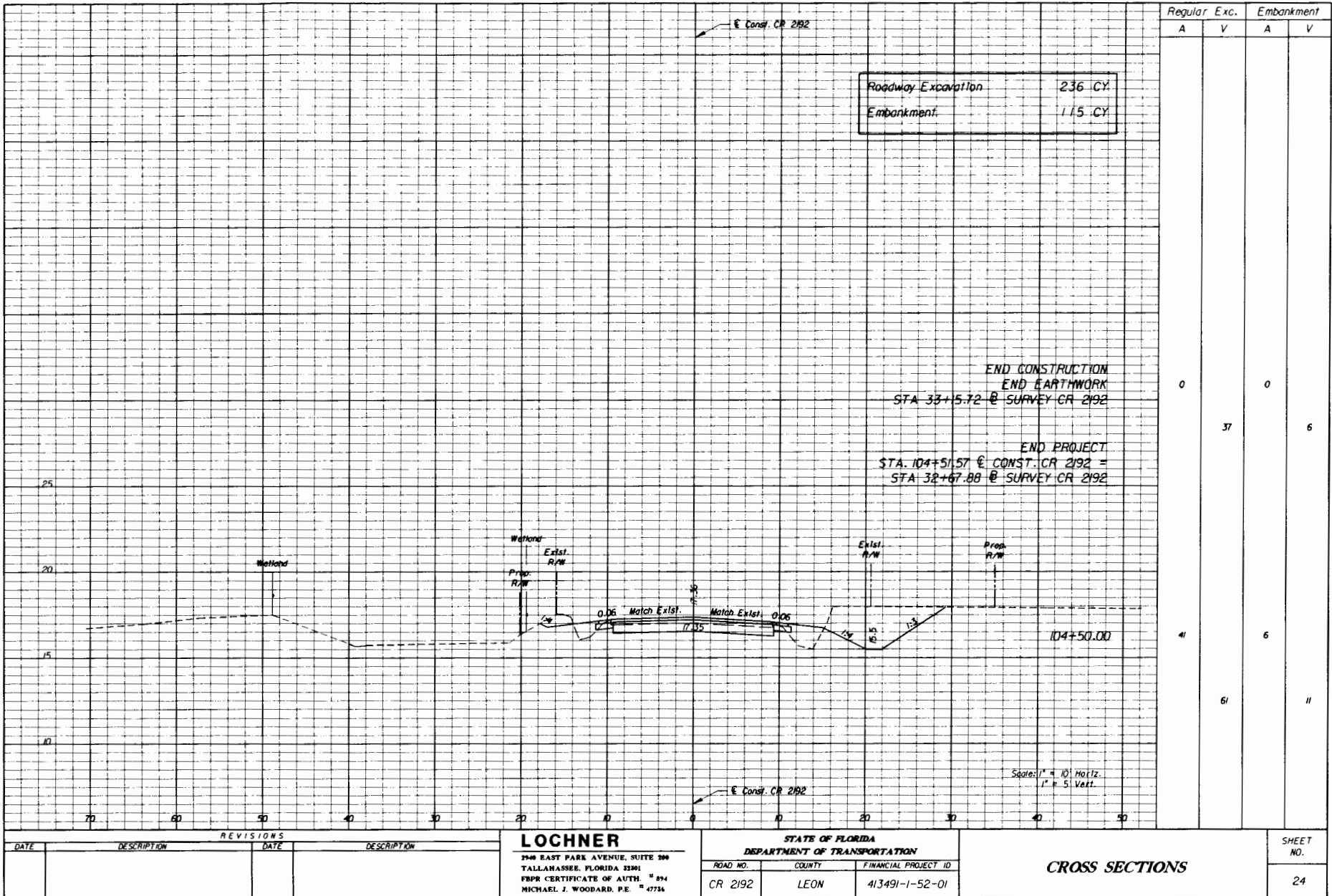
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REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	3540 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 694 MICHAEL J. WOODARD, P.E. # 47736		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		22
						CR 2192	LEON	413491-1-52-01		



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DATE		DESCRIPTION		REVISIONS		LOCHNER			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS		SHEET NO.



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REVISIONS		LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO. 24
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01		

1. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF REPLACING THE BRIDGE ON NATURAL BRIDGE ROAD OVER A BRANCH OF ST. MARKS RIVER. THE PROJECT WILL BEGIN APPROXIMATELY 200 FT WEST OF THE EXISTING BRIDGE AND END APPROXIMATELY 200 FT EAST OF THE BRIDGE.

B. MAJOR SOIL DISTURBING ACTIVITIES:

CLEARING AND GRUBBING
REMOVAL OF EXISTING BRIDGE
CONSTRUCTION OF NEW BRIDGE

C. AREA ESTIMATES:

TOTAL PROJECT AREA: 0.76 ACRES
TOTAL AREA TO BE DISTURBED: 0.76 ACRES

D. RUNOFF DATA:

RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.64
RUNOFF COEFFICIENT (DURING CONSTRUCTION): 0.67
RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.67

OUTFALL LOCATIONS:

1) LATITUDE 30°17'8" N, LONGITUDE 84°8'56" W

2. CONTROLS

SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:

CONTROLS TO BE IMPLEMENTED THROUGHOUT THE DURATION OF THE PROJECT

A. EROSION AND SEDIMENT CONTROLS

(1) STABILIZATION PRACTICES:

- TEMPORARY SODDING
- TEMPORARY GRASSING
- PERMANENT SODDING OR SEEDING
- TEMPORARY MULCHING
- ARTIFICIAL COVERING
- PRESERVATION OF NATURAL AREAS

(2) STRUCTURAL PRACTICES BASED ON ESTIMATES BULLETIN 09-02 DATED JULY 9, 2009:

- SEDIMENT BARRIER
- INLET PROTECTION SYSTEM
- BERMS
- DIVERSION, INTERCEPTOR OR PERIMETER DITCHES
- PIPE SLOPE DRAINS
- FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER BEDDING AT CONSTRUCTION EXIT
- DITCH LINER
- SEDIMENT TRAPS/BASINS
- STORM INLET SEDIMENT TRAP
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES
- TURBIDITY BARRIER
- RIP RAP

PROTECT EXISTING WETLANDS WITH SEDIMENT BARRIER AND PLACE SEDIMENT BARRIER AT ALL LOCATIONS WHERE RUNOFF CAN LEAVE THE PROJECT SITE.

B. STORMWATER MANAGEMENT

STORMWATER TREATMENT WILL NOT BE PROVIDED.
ATTENUATION IS NOT REQUIRED.

C. OTHER CONTROLS

(1) WASTE DISPOSAL:

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

(2) OFFSITE VEHICLE TRACKING AND GENERATION OF DUST:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARP
- EXCESS DIRT ON ROADWAY REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE

(3) SANITARY OR SEPTIC WASTE:

ALL SANITARY WASTE WILL BE COLLECTED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

(4) FERTILIZER:

FERTILIZER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.

(5) PESTICIDES:

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

(6) NON-STORM WATER DISCHARGE INCLUDING SPILL REPORTING:

NO NON-STORM WATER DISCHARGES ARE ANTICIPATED.

(7) IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, THE DISTRICT HAZARDOUS MATERIALS COORDINATOR SHALL BE CONTACTED.

3. PERMITS

NWFWD ENVIRONMENTAL RESOURCE PERMIT
LEON COUNTY ENVIRONMENTAL MANAGEMENT PERMIT
ACOE DREDGE & FILL PERMIT
FDEP NPDES

4. MAINTENANCE

DISCHARGES INTO OFFSITE OUTFALLS SHALL BE INSPECTED DAILY FOR POSSIBLE SEDIMENT BUILDUP OR TRANSPORT. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED FOLLOWING EACH RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS AT THE CONTROLS SHOULD BE REMOVED AFTER EACH STORM EVENT.

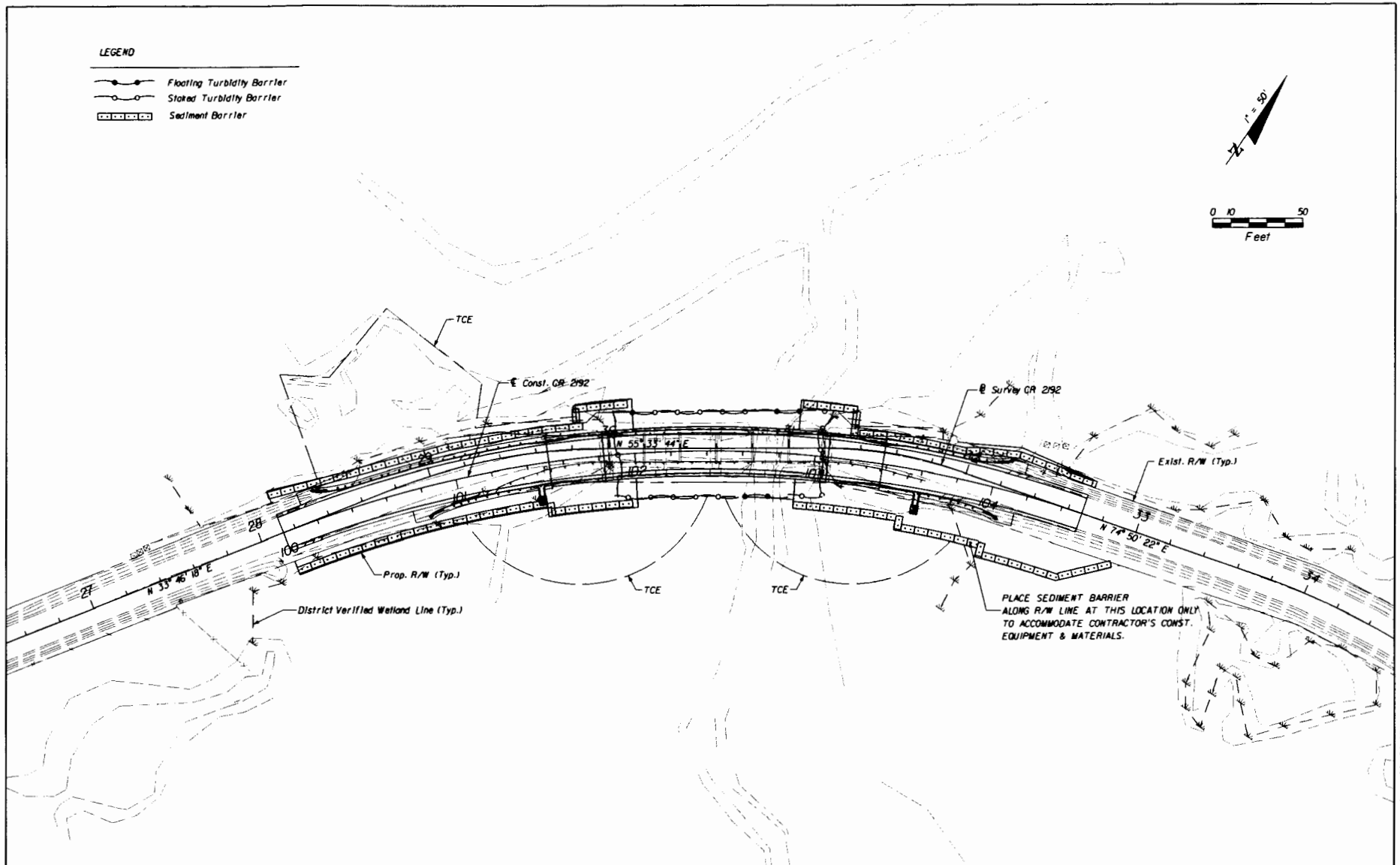
THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

5. INSPECTION

ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER A STORM EVENT WITH 0.50" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION BASED UPON INSPECTION RESULTS. THE CONTROLS SHALL BE REVISED PER THE INSPECTION RESULTS.

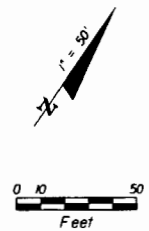
REVISIONS				LOCHNER 2400 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH # 894 NATALIE BETZ ZIERDEN, P.E. # 64872	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					CR 2192	LEON	413491-1-52-01	

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LEGEND

	Floating Turbidity Barrier
	Staked Turbidity Barrier
	Sediment Barrier

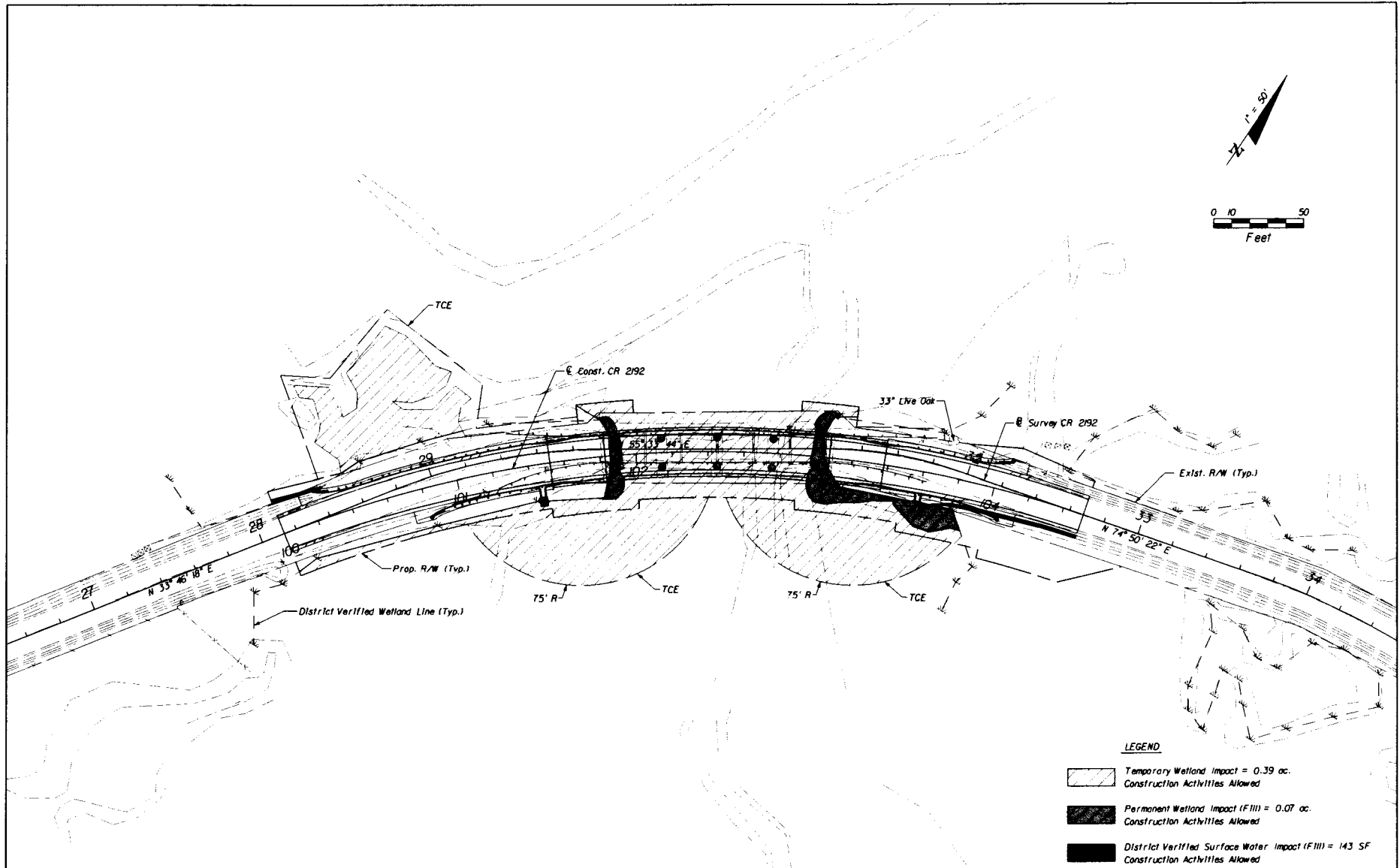


PLACE SEDIMENT BARRIER
ALONG R/W LINE AT THIS LOCATION ONLY
TO ACCOMMODATE CONTRACTOR'S CONST.
EQUIPMENT & MATERIALS.




NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

Page A26 of 85

REVISIONS		LOCHNER	STATE OF FLORIDA		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION		
		2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 094 NATALIE BETZ ZIERDEN, P.E. # 54673	DEPARTMENT OF TRANSPORTATION			26
			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			CR 2192	LEON	413491-1-52-01	



LEGEND

-  Temporary Wetland Impact = 0.39 ac.
Construction Activities Allowed
-  Permanent Wetland Impact (FIII) = 0.07 ac.
Construction Activities Allowed
-  District Verified Surface Water Impact (FIII) = 143 SF
Construction Activities Allowed

REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			WETLAND IMPACTS	
DATE	DESCRIPTION	DATE	DESCRIPTION	3940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 PBPR CERTIFICATE OF AUTH. # 074 MICHAEL J. WOODARD, P.E. # 47734		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.	
						CR 2192	LEON	413491-1-52-01	27	

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12-21-2011 09:09 AM \\s1\projects\1113509-413491\501\woodward\WETLAND.DWG

GENERAL NOTES

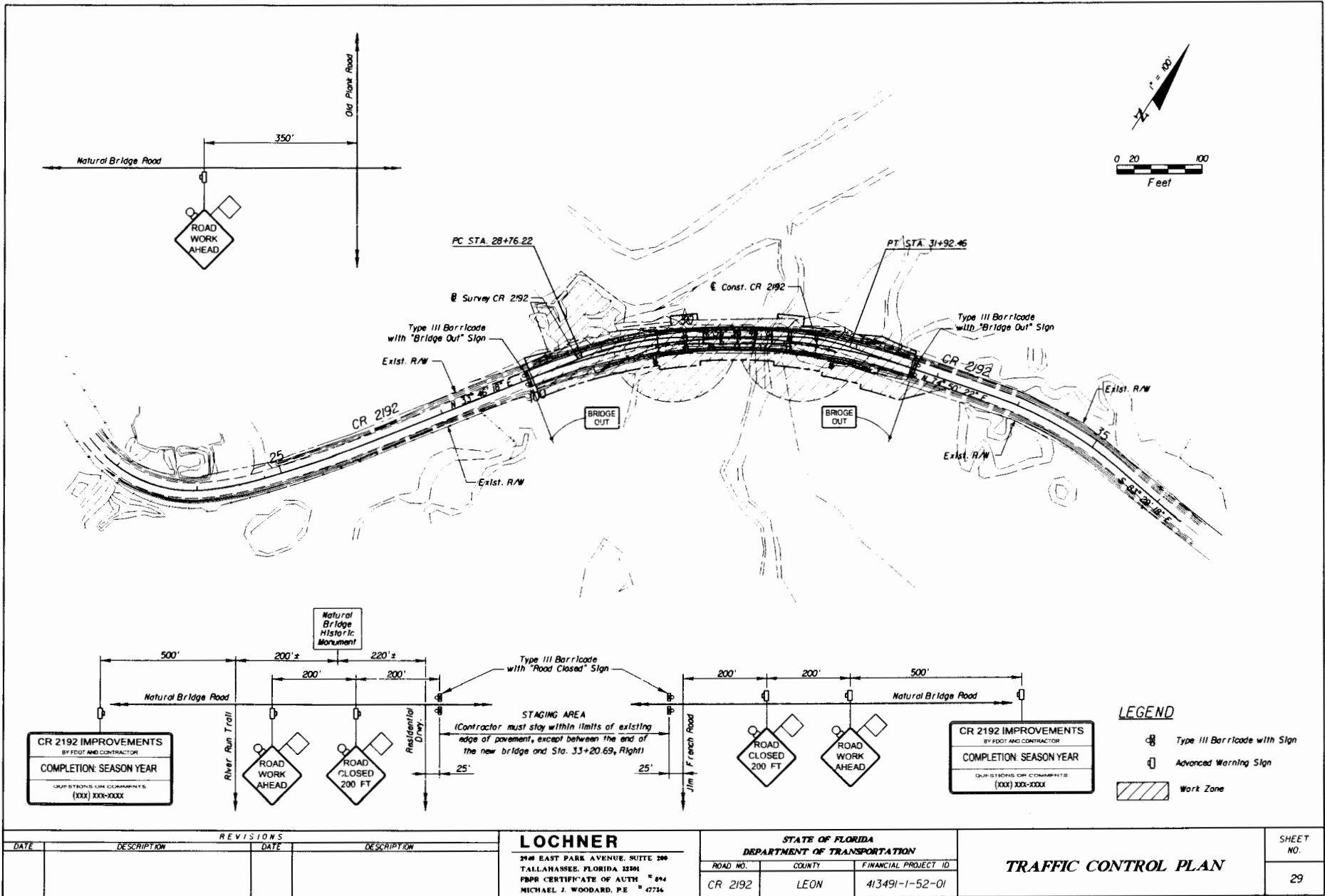
1. The contractor shall adhere to the requirements set forth in the current edition of "The Manual on Uniform Traffic Control Devices (MUTCD)" and applicable "Design Standards".
2. All traffic control devices required during construction shall be installed and approved by the Engineer prior to commencement of work and shall be maintained in accordance with Index No. 600.
3. All existing signs that conflict with the traffic control plan shall be covered or removed as necessary prior to commencement of construction. All existing signs that are removed because of construction shall be replaced upon completion of the project. All costs are to be included under Pay Item No. 102-1.
4. Contractor shall provide access to and from side streets/ driveways during construction unless otherwise noted.
5. Existing Road and Street name signs on the project area, if needed, to be temporarily relocated during construction and kept visible at all times for the facilitation of emergency vehicle traffic.
6. Any roadway, & drainage structures within the project limits, damaged by the contractor's operations shall be restored in kind. All disturbed areas within the limits of construction that are not paved or landscaped shall be restored and sodded to a condition equal to or superior to that existing prior to commencement of work. All costs shall be included in Pay Item No. 102-1.
7. Contractor shall formally request a road closure from Leon County. The request should include certified maintenance of traffic (MOT/Detour) plan and a cover letter which includes (1) purpose of road closure, (2) a brief scope of work, (3) road closure begin date & time, and (4) road closure end date & time. Contractor shall submit MOT plan to Leon County 14 days prior to road closure.
8. Contractor shall report a road closure at least 14 days in advance. The list of organizations to be notified shall include, but is not limited to: local emergency agencies, the media, Leon County, Jefferson County, Wakulla County, Wakulla Correctional Facility, and Natural Bridge State Park. Local residents shall also be notified.
9. The advanced notification PCMS shall be installed and agencies and citizens notified on a Friday, and the road can be closed fourteen days later to complete the proposed work.
10. This project is located in an environmentally-sensitive area. The Contractor shall use only the existing paved road within the limits shown in this TCP as the staging area for his vehicles, equipment and materials. Stockpiling vehicles, equipment and materials may require the Contractor to obtain a permit from Leon County. The only exception to this is between the end of the new bridge and Sta. 33+20.69 Right (as shown on the Selective Clearing sheet). At this location the Contractor may construct a temporary work pad for material storage and vehicle & equipment access. Refer to Tree Survey sheets at the end of this plan set for information about specific trees which will need to be trimmed before commencing crane operations.
11. The Contractor shall inspect the condition of all unpaved roadway sections of the detour on a weekly basis, and re-grade any sections as directed by the Engineer. See pay item rate 110-1 for method of payment.
12. Contractor shall place Barricade Types 1, 11, D1, or VP & DRUM around four corners of PCMS at two locations, on the east and west ends of the project.

PHASE NOTES

1. Install advance warning signs and detour signs as per TCP plans.
2. Close Natural Bridge Road between residential driveway located approximately 220' east of historic battle monument and Jim French Road. Detour the traffic along Fanlew Road, SR 59, Tram Road and Old Plank Road.
3. Open Natural Bridge Road to traffic as soon as construction is complete.

REVISIONS				LOCHNER 2740 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPCR CERTIFICATE OF AUTH. # 004 MICHAEL J. WOODARD, P.E. # 4734	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN	SHEET NO. 28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

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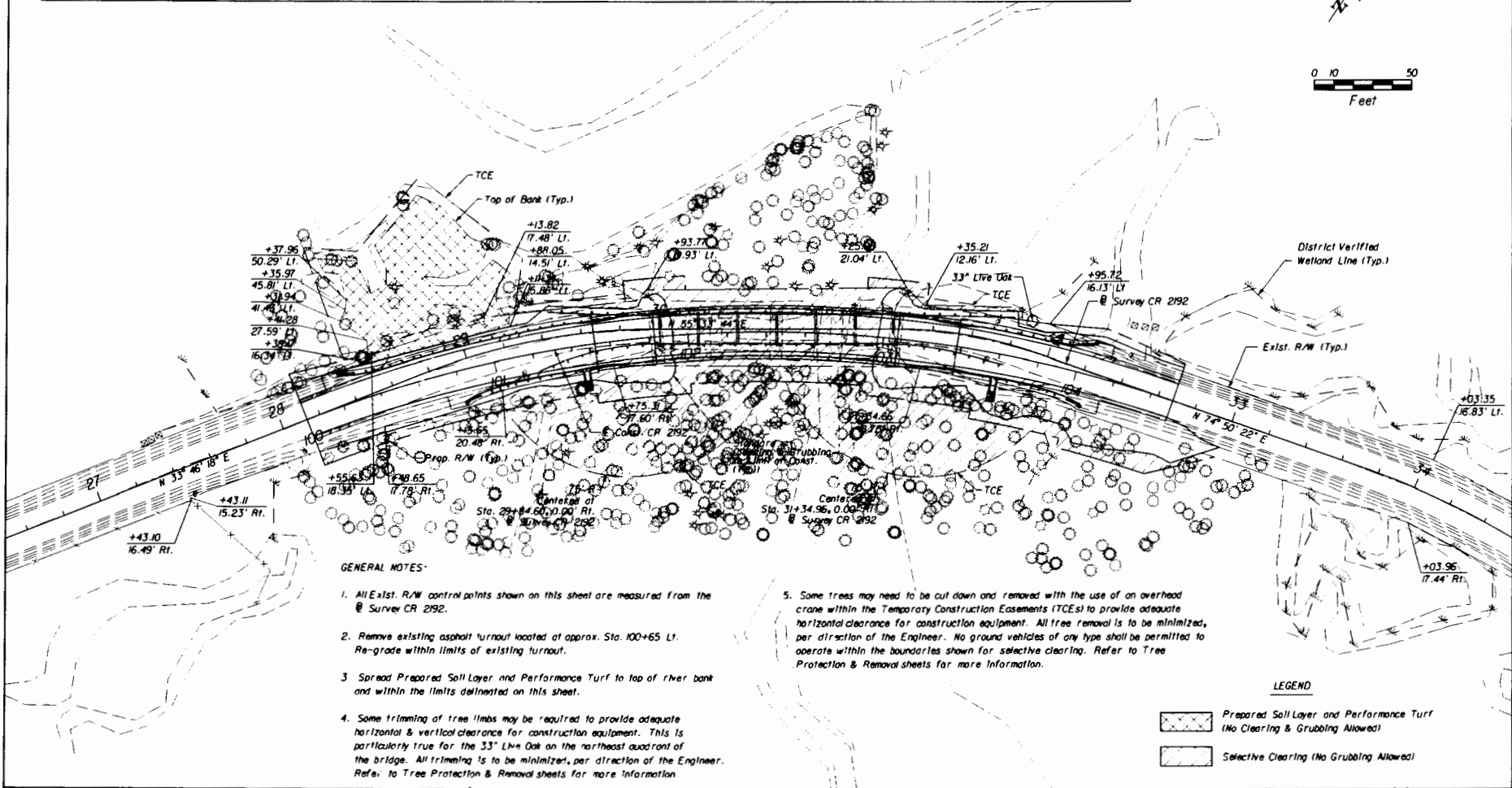
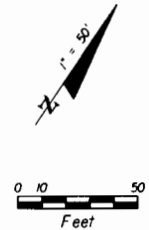
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REVISIONS		LOCHNER	STATE OF FLORIDA		TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID		
		2140 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPCR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, PE # 47734	CR 2192	LEON 413491-1-52-01	29	



Temporary Construction Easement Control Points*																					
Point	Sta.	Offset	Side	Point	Sta.	Offset	Side	Point	Sta.	Offset	Side	Point	Sta.	Offset	Side	Point	Sta.	Offset	Side		
TCE01	100+27.44	21.08	Lt.	TCE04	100+85.37	100.73	Lt.	TCE07	101+00.38	25.00	Rt.	TCE10	103+83.91	35.00	Rt.	TCE13	103+66.70	25.47	Lt.		
TCE02	100+26.87	82.83	Lt.	TCE05	101+23.58	48.94	Lt.	TCE08	102+40.19	25.00	Rt.	TCE11	101+70.00	23.71	Lt.	TCE14	31+82.42	13.71	Lt.		
TCE03	100+49.39	72.57	Lt.	TCE06	101+15.95	25.62	Lt.	TCE09	102+50.34	25.00	Rt.	TCE12	103+20.00	18.83	Lt.						

* All TCE control points are measured from the Centerline of Const. CR 2192, except where the TCEs intersect the existing maintained R/W. These points of intersection are measured from the Baseline of Survey CR 2192.



GENERAL NOTES:

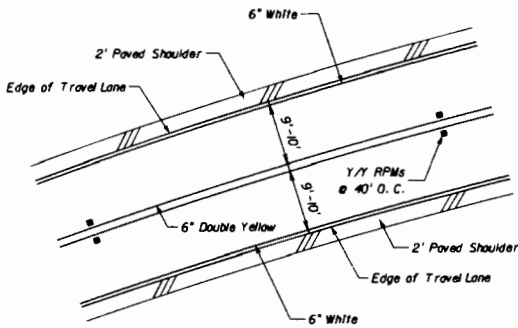
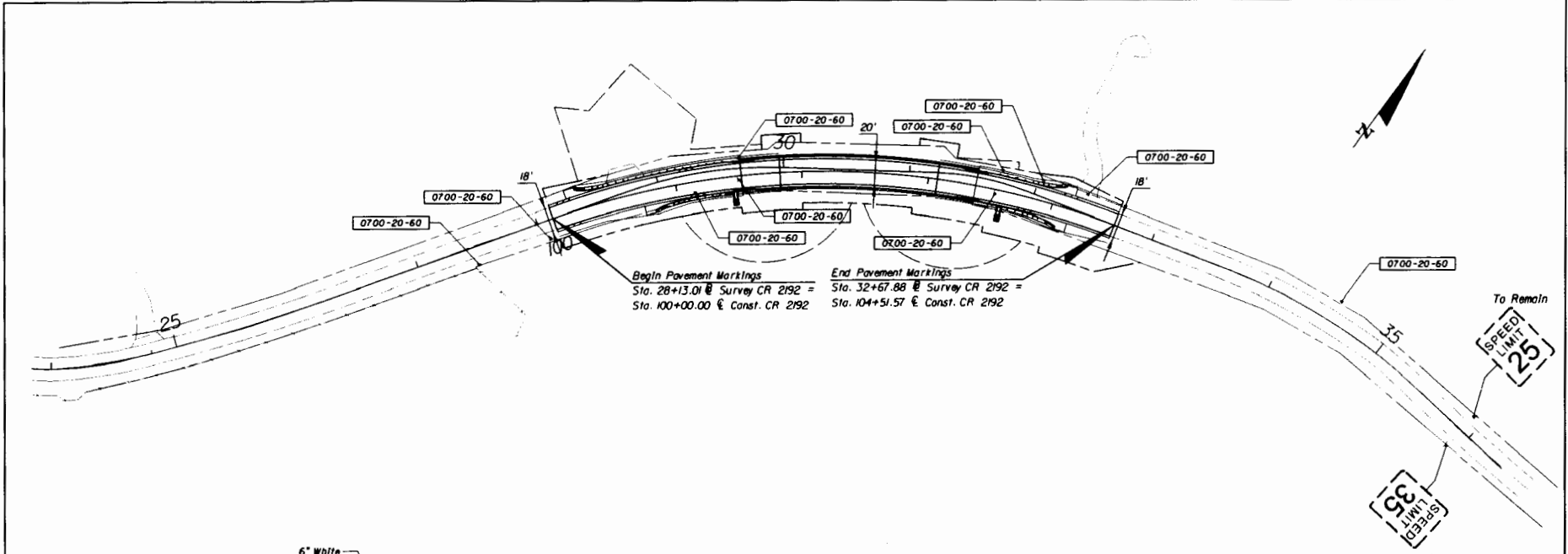
- All Exist. R/W control points shown on this sheet are measured from the Survey CR 2192.
- Remove existing asphalt turnout located at approx. Sta. 100+65 Lt. Re-grade within limits of existing turnout.
- Spread Prepared Soil Layer and Performance Turf to top of river bank and within the limits delineated on this sheet.
- Some trimming of tree limbs may be required to provide adequate horizontal & vertical clearance for construction equipment. This is particularly true for the 33" Live Oak on the northeast quadrant of the bridge. All trimming is to be minimized, per direction of the Engineer. Refer to Tree Protection & Removal sheets for more information.
- Some trees may need to be cut down and removed with the use of an overhead crane within the Temporary Construction Easements (TCEs) to provide adequate horizontal clearance for construction equipment. All tree removal is to be minimized, per direction of the Engineer. No ground vehicles of any type shall be permitted to operate within the boundaries shown for selective clearing. Refer to Tree Protection & Removal sheets for more information.

LEGEND

- Prepared Soil Layer and Performance Turf (No Clearing & Grubbing Allowed)
- Selective Clearing (No Grubbing Allowed)

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION			<p>LOCHNER 2140 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 894 MICHAEL J. WOODARD, P.E. # 47734</p>	<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>CR 2192</td> <td>LEON</td> <td>413491-1-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CR 2192	LEON	413491-1-52-01	<p>SELECTIVE CLEARING</p>	<p>SHEET NO. 31</p>
REVISIONS																	
DATE	DESCRIPTION																
ROAD NO.	COUNTY	FINANCIAL PROJECT ID															
CR 2192	LEON	413491-1-52-01															

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	GRAND TOTAL		REF. SHEET
			PLAN	FINAL	
0700 20 60	SINGLE POST SIGN (REMOVE)	AS		10	
#	REFLECTIVE PAVEMENT MARKER (YELLOW/YELLOW)	EA		24	
#	TRAFFIC STRIPE SOLID (WHITE) (6")	NM	0.171		
#	TRAFFIC STRIPE SOLID (YELLOW) (6")	NM	0.171		
# THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE). LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER
 2540 EAST PARE AVENUE, SUITE 200
 TALLAHASSEE, FLORIDA 32310
 FBPR CERTIFICATE OF AUTH. # 814
 MICHAEL J. WOODARD, P.E. # 47736

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO. CR 2192	COUNTY LEON	FINANCIAL PROJECT ID 413491-1-52-01

SIGNING & MARKING DETAILS	SHEET NO. 32
--------------------------------------	-----------------

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TREE PROTECTION GENERAL NOTES

IT IS IMPORTANT FOR THE EQUIPMENT OPERATORS, CONTRACTOR'S PERSONNEL, AND SUBCONTRACTORS TO UNDERSTAND THAT DAMAGE TO TREES WILL NOT BE TOLERATED. EXTREME CARE MUST BE TAKEN TO PROTECT THE EXPOSED ROOT COLLARS FROM VEHICULAR DAMAGE AND FALLING DEBRIS. CONTRACTOR SHALL CONTACT LEON COUNTY ENVIRONMENTAL DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.

TREES LOCATED WITHIN SWING OF CRANE WITHIN TEMPORARY CONSTRUCTION EASEMENT TO BE CUT OFF A MINIMUM OF TWO FEET ABOVE MUDLINE, LEAVING ROOT SYSTEM INTACT. SOME TREES MAY NEED TO BE CUT DOWN AND REMOVED WITH THE USE OF AN OVERHEAD CRANE WITHIN THE TEMPORARY CONSTRUCTION EASEMENTS (TCEs) TO PROVIDE ADEQUATE HORIZONTAL CLEARANCE FOR CONSTRUCTION EQUIPMENT. ALL TREE REMOVAL IS TO BE MINIMIZED, PER DIRECTION OF THE ENGINEER. NO GROUND VEHICLES OF ANY TYPE SHALL BE PERMITTED TO OPERATE WITHIN THE BOUNDARIES SHOWN FOR SELECTIVE CLEARING.

TREE PROTECTION:

ALL TREES NOT INDICATED FOR REMOVAL IN THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE, USING HOGWIRE AND ORANGE MESH INSTALLED ALONG LIMITS OF CONSTRUCTION.

THE BARRICADE SHALL BE CONSTRUCTED TO PROTECT "60% OF THE CRITICAL PROTECTION ZONE" TO THE GREATEST EXTENT POSSIBLE (SEE DETAIL). THE BARRICADE SHALL BE CONSTRUCTED TO PREVENT THE ENCRoACHMENT OF EQUIPMENT OR VEHICLES, THE REMOVAL OF EXISTING GROUND COVER, THE DISTURBANCE OR COMPACTION OF SOIL, OR THE SCARRING OF ROOTS WITHIN "60% OF THE CRITICAL PROTECTION ZONE." THERE SHALL BE NO STORAGE OF MATERIALS OR EQUIPMENT OF ANY KIND WITHIN THIS ZONE.

WHERE TREE REMOVAL IS INDICATED BEYOND LIMITS OF CONSTRUCTION, TEMPORARY REMOVAL OF THE BARRICADE AS DIRECTED BY THE ENGINEER SHALL BE CONDUCTED.

CRITICAL PROTECTION ZONE: (CPZ) MEANS THAT AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREST HEIGHT (DBH).

TRUNK PROTECTION: A CONTINUOUS BAND OF 2" X 4" WOOD BOARDS SHALL BE ATTACHED TO THE TRUNK AS INDICATED IN THE DETAIL TO GUARD AGAINST ACCIDENTAL DAMAGE BY ANY CONSTRUCTION EQUIPMENT FOR TREE TAG No. 690. THE WOODEN BAND SHALL EXTEND FROM GROUND LEVEL TO A HEIGHT OF 4.5'.

ROOT PRUNING:

CONTRACTOR SHALL CONTACT LEON COUNTY ENVIRONMENTAL DEPARTMENT PRIOR TO ANY ROOT PRUNING. ROOT PRUNING SHALL OCCUR PRIOR TO SITE CLEARING OR EXCAVATION IN ALL AREAS WHERE DEMOLITION OR NEW CONSTRUCTION REQUIRES REMOVAL OF EXISTING ROOTS. ALL ROOT REMOVAL SHALL BE LIMITED TO THE EXTENT POSSIBLE AS DIRECTED ON-SITE BY THE LEON COUNTY ENVIRONMENTAL DEPARTMENT. ROOTS SHALL BE CUT CLEANLY WITH A MECHANICAL TRENCHING DEVICE SIMILAR TO A "ROOT SAW" TO A MINIMUM DEPTH OF 24" FOLLOWED IMMEDIATELY BY A CLEAN-CUT HAND PRUNING OF ALL ROOTS GREATER THAN 5" IN DIAMETER. ALL PRUNED/CUT ROOTS SHALL BE TREATED IMMEDIATELY WITH A FULL-SPECTRUM FUNGICIDE BY SPRAY APPLICATION AT THE MANUFACTURER'S RECOMMENDED RATE. ROOT PRUNING SHALL OCCUR AS FAR IN ADVANCE OF EXCAVATION/ CONSTRUCTION AS POSSIBLE. ALL EXPOSED PRUNED/CUT ROOTS SHALL BE COVERED AS SOON AS POSSIBLE WITH TOPSOIL, MULCH OR OTHER ORGANIC MEDIUM. ANY ROOT PRUNED AREAS WHICH CANNOT BE PROTECTED BY IMMEDIATE BACKFILL REPLACEMENT SHALL BE COVERED TO THE EXTENT POSSIBLE WITH 6 MIL PLASTIC TO RETARD SOIL/ROOT DEHYDRATION.

WATERING:

BEGINNING TWO WEEKS PRIOR TO ROOT PRUNING AND THROUGH SUBSTANTIAL COMPLETION OF THE PROJECT, ALL IMPACTED TREES SHALL BE WATERED BY MECHANICAL IRRIGATION OR MANUALLY AT A RATE EQUIVALENT TO 1" OF WATER PER WEEK. WATERING SHALL BE ADJUSTED AS REQUIRED BY LOCAL WEATHER CONDITIONS. PROVIDE APPROVED RAIN GAUGES ON SITE AS REQUIRED FOR VERIFICATION OF APPLICATION RATES.

PRUNING:

PERFORM A CLASS II MEDIUM PRUNING AS DEFINED BY THE NATIONAL ARBORIST ASSOCIATION FOR IMPACTED TREES AS DIRECTED ONSITE BY THE ENGINEER. PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION STANDARDS AND AS DIRECTED ON SITE BY THE ENGINEER OR OWNER.

MEDIUM PRUNING SHALL CONSIST OF THE REMOVAL OF DEAD, DYING, DISEASED, INTERFERING, OR OBJECTIONABLE AND WEAK BRANCHES OF THE MAIN TRUNKS, AS WELL AS THOSE WITHIN THE LEAF AREA. REMOVE SPANISH MOSS AND VINES TO THE EXTENT POSSIBLE.

TRENCHING:

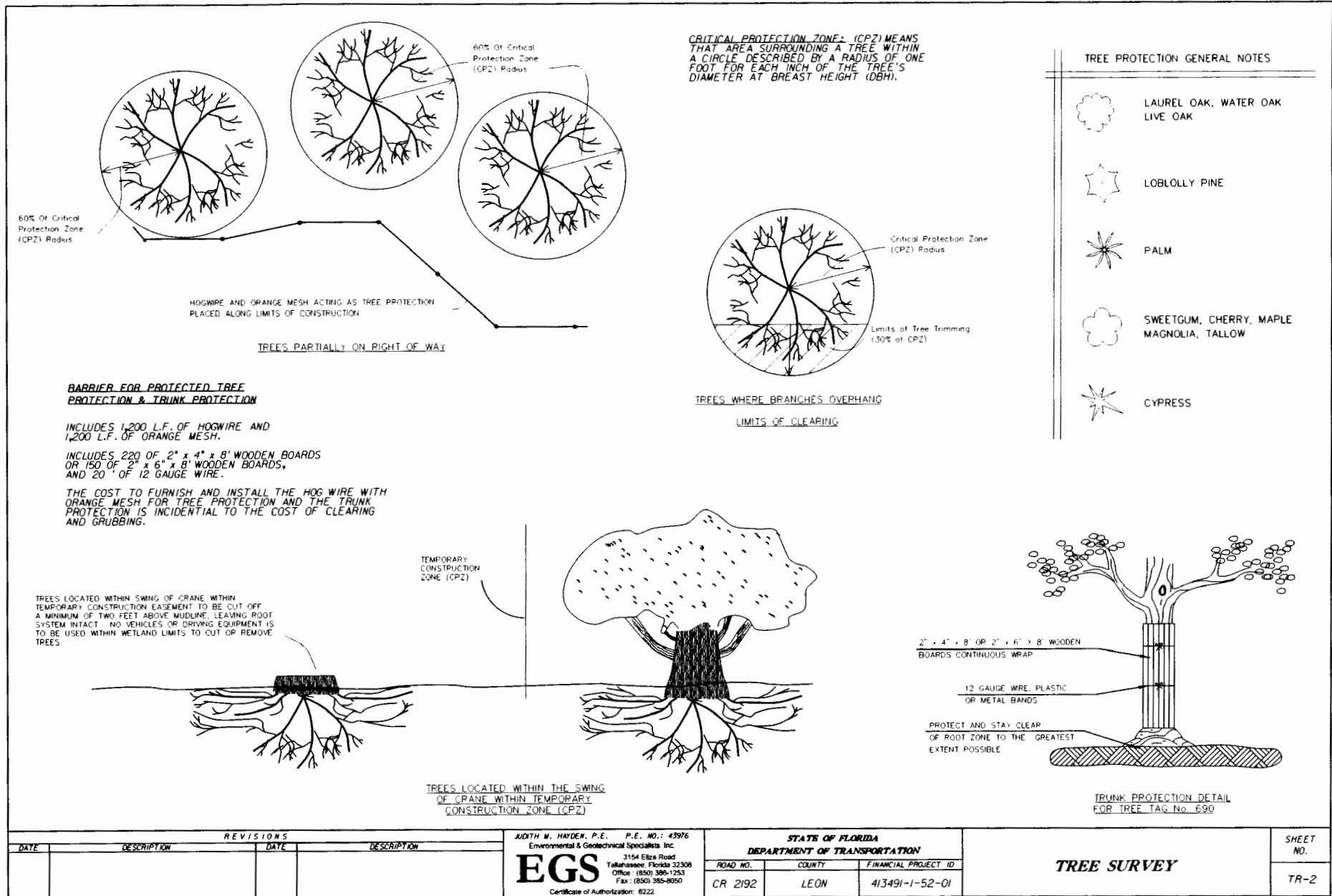
TRENCHING SHALL BE PERFORMED IN ORDER TO PROVIDE A CLEAN CUT OF ROOTS FOR THOSE TREES TO BE PRESERVED WHICH WILL BE IMPACTED BY ADJACENT CONSTRUCTION OR THE REMOVAL OF OTHER TREES. TRENCHING SHALL BE DONE ADJACENT TO ALL TREES (TO BE PRESERVED) WHERE THE CONSTRUCTION ACTIVITY OCCURS AT, OR WITHIN, THE DRIPLINE OF THE TREE. TRENCHES SHALL BE DUG TO A MINIMUM DEPTH OF 13" WITH A MAXIMUM WIDTH OF 18". CUT ROOTS WHICH HAVE A DIAMETER OF 2" OR GREATER SHALL BE PAINTED WITH AN APPROVED TREE PRUNING PAINT. ROOT TREATING AND THE REFILLING OF TRENCHES SHALL BE ACCOMPLISHED WITHIN 24 HOURS AFTER DIGGING OF THE TRENCH. TRENCHES SHALL BE DUG WITHIN 12" OF THE RIGHT OF WAY LIMITS WHERE SHOWN IN PLANS AND/OR AS DIRECTED BY THE ENGINEER.

PENALTIES FOR VIOLATION OF REQUIREMENTS:

ALL FINES AND MITIGATION ASSOCIATED WITH ANY VIOLATION NOT ADHERING TO THE TREE PROTECTION AND TREE MITIGATION PLAN AS INDICATED IN THE ENVIRONMENTAL PERMIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

REVISIONS				JUDITH M. HAIDER, P.E. P.E. No.: 43976 Environmental & Geotechnical Specialists Inc. EGS 3154 Elbra Road Tallahassee, Florida 32308 Office : (850) 386-1253 Fax : (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. TREE SURVEY TR-1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					CR 2192	LEON	413491-1-52-01	

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**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CP2)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
	LAUREL OAK	QUERCUS LAUR FOL A	3	25	28+00.03	8.8 LT	YES			YES	0	
2	WATER OAK	QUERCUS N GRA	8	20	28+03.0A	3.1 LT	YES			YES	4	
3	CHESNUT OAK	CASTANEA DENTATA	3	28	28+06.4	9.5 LT	YES			YES	0	
4	LAUREL OAK	QUERCUS LAUR FOL A	8	20	28+00.06	9.0 LT	YES			YES	4	
5	LAUREL OAK	QUERCUS LAUR FOL A	3	28	28+00.53	8.7 LT	YES			YES	0	
6	WATER OAK	QUERCUS N GRA	5	79	27+08.79	27.7 LT	YES					YES
7	LAUREL OAK	QUERCUS LAUR FOL A	3	25	27+07.15	30.7 LT	YES					YES
8	HACKBERRY	CELTIS OCCIDENTALIS	2	3	28+05.3	36.9 LT	YES					YES
9	WATER OAK	QUERCUS N GRA	6	3	28+4.24	34.9 LT	YES					YES
0	WATER OAK	QUERCUS N GRA	4	50	28+5.75	36.6 LT	YES					YES
	WATER OAK	QUERCUS N GRA	3	28	28+5.4	38.8 LT	YES					YES
2	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28+3.88	40.7 LT	YES					YES
3	HACKBERRY	CELTIS OCCIDENTALIS	0	3	28+2.59	43.3 LT	YES					YES
4	BLACK GUM	NYSSA SYLVATICA var	5	707	28+00.49	44.1 LT	YES					YES
5	HACKBERRY	CELTIS OCCIDENTALIS	5	79	28+3.04	59.2 LT	YES					YES
6	LAUREL OAK	QUERCUS LAUR FOL A	7	53	28+4.88	58.2 LT	YES					YES
7	HACKBERRY	CELTIS OCCIDENTALIS	6	3	28+2.49	64.5 LT	YES					YES
8	HACKBERRY	CELTIS OCCIDENTALIS	5	79	28+32.77	59.9 LT	YES					YES
9	HACKBERRY	CELTIS OCCIDENTALIS	5	79	28+44.64	77.8 LT	YES				2	YES
20	LYE OAK	QUERCUS LYRATA	30	2827	28+45.90	94.2 LT	YES	YES				YES
21	SWEETGUM	LIGULIDAMBAR STRAC FLUA	0	34	28+45.90	88.2 LT	YES				4	
22	WILLOW	SALIX SPP.	3	28	28+46.4	6.9 LT	YES				0	
23	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28+54.56	7.5 LT	YES			YES	2	
24	WATER OAK	QUERCUS N GRA	2	3	28+57.7	69.9 LT	YES			YES	0	
25	HACKBERRY	CELTIS OCCIDENTALIS	2	3	28+63.76	76.8 LT	YES			YES	0	
26	WATER OAK	QUERCUS N GRA	2	450	28+36.35	4.4 LT	YES					YES
27	WILLOW	SALIX SPP.	4	50	28+36.8	36.3 LT	YES					YES
28	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28+32.45	24.6 LT	YES			YES	2	
29	BLACKGUM	NYSSA SYLVATICA var	5	79	28+5.37	3.6 LT	YES			YES	2	
30	WATER OAK	QUERCUS N GRA	7	54	28+7.35	8.9 LT	YES			YES	4	
31	WATER OAK	QUERCUS N GRA	5	3	28+9.54	25.3 LT	YES			YES	2	
32	LAUREL	QUERCUS LAUR FOL A	5	79	28+24.68	22.7 LT	YES			YES	2	
33	LAUREL OAK	QUERCUS LAUR FOL A	8	20	28+34.6	7.7 LT	YES			YES	4	
34	LAUREL OAK	QUERCUS LAUR FOL A	9	254	28+38.06	7.3 LT	YES			YES	4	
35	CHESNUT OAK	CASTANEA DENTATA	6	3	28+43.28	25 LT	YES				2	
36	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28+50.56	9.8 LT	YES			YES	0	
37	HACKBERRY	CELTIS OCCIDENTALIS	2	3	28+50.94	9.8 LT	YES			YES	0	
38	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28+5.03	8.9 LT	YES			YES	2	
39	CHERRY	PRUNUS CAROLINIANA	9	254	28+5.80	8.6 LT	YES			YES	4	
40	SWEETGUM	LIGULIDAMBAR STRAC FLUA	7	908	28+65.44	20.4 LT	YES			YES	6	
41	HACKBERRY	CELTIS OCCIDENTALIS	7	54	28+49.3	37.3 LT	YES			YES	4	
42	WATER OAK	QUERCUS N GRA	9	34	28+72.4	38.8 LT	YES			YES	8	
43	CYPRESS	TAXODIUM SPP.	27	2290	28+78.97	16.4 LT	YES			YES	0	
44	HACKBERRY	CELTIS OCCIDENTALIS	9	20	28+94.7	64.7 LT	YES			YES	4	
45	MAPLE	ACER SPP.	150		28+95.5	87.7 LT	YES			YES	4	
46	MAPLE	ACER SPP.	3	28	28+94.36	88.6 LT	YES			YES	0	
47	SWEETGUM	LIGULIDAMBAR STRAC FLUA	2	785	28+23.74	53.6 LT	YES			YES	8	
48	HACKBERRY	CELTIS OCCIDENTALIS	3	20	28+28.78	53.4 LT	YES			YES	4	
49	HACKBERRY	CELTIS OCCIDENTALIS	6	3	28+26.8	52.3 LT	YES			YES	2	
50	SWEETGUM	LIGULIDAMBAR STRAC FLUA	4	735	28+90.49	24.0 LT	YES			YES	6	

NOTES:
 * 1 INCH OF TREE DIAMETER AT 5 FEET ABOVE GROUND (DBH) IS EQUAL TO 1 FOOT OF CANOPY RADIUS FOR THE CALCULATION OF CANOPY AREA (PI * RADIUS SQUARED). THIS NUMBER IS NOT PHYSICALLY MEASURED.
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DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Filza Road Tallahassee, Florida 32308 Office: (850) 398-1253 Fax: (850) 398-9050 Certificate of Authorization: 6222		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CF 2192 LEON 413491-1-52-01		TREE SURVEY SHEET NO. TR-3	
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6A05-23.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
5	BLACKGUM	NYSSA SILVATA var	8	0.8	29+99.42	20.6 L	YES			YES	6	
52	SWEETGUM (DEAD)	LQU DAMBAR STYRAC FLUA	7	908	29+0.9	24.0 LT	DEAD				DEAD	DEAD
53	WATER OAK (DEAD)	QUERCUS N GRA	20	257	29+1.76	6.9 L	DEAD				DEAD	DEAD
54	HACKBERRY	CELTIS OCC DENAL S	2	3	29+29.35	2.8 LT	YES	YES			0	
55	WATER OAK	QUERCUS N GRA	9	254	29+32.82	23.5 L	YES	YES			4	
56	HICKORY	CARYA SPP.	5	707	29+29.07	29.5 L	YES	YES			6	
57	SHORT LEAF PINE	PNUS SPP.	22	52	29+34.8	30.0 LT	YES	YES			8	
58	LAUREL OAK	QUERCUS LAUR FOL A	0	3.4	29+36.64	27.6 LT	YES	YES			4	
59	WATER OAK	QUERCUS N GRA	4	50	29+36.62	22.2 LT	YES	YES			2	
60	WATER OAK	QUERCUS N GRA	6	3	29+36.02	20.8 L	YES	YES			2	
61	PERSIMMON	DOSPYRUS VIRGINIANA		380	29+46.64	32.0 LT	YES					YES
62	BLACKGUM	NYSSA SILVATA var	9	34	29+46.	3.0 L	YES					YES
63	HACKBERRY	CELTIS OCC DENAL S	6	3	29+49.58	27.2 LT	YES					YES
64	WATER OAK	QUERCUS N GRA	2	3	29+5.88	26.4 LT	YES					YES
65	SWEETGUM	LQU DAMBAR STYRAC FLUA	5	707	29+60.58	9.7 LT	YES	YES			6	
66	LAUREL OAK	QUERCUS LAUR FOL A	8	20	29+52.64	3.2 L	YES					YES
67	CYPRESS	TAXODUM SPP.	2	452	29+66.22	33.8 L	YES					YES
68	CYPRESS	TAXODUM SPP.	6	3	29+72.59	25.5 LT	YES			YES	2	
69	LAUREL OAK	QUERCUS LAUR FOL A	22	52	29+76.52	24.8 L	YES			YES	8	
70	LAUREL OAK	QUERCUS LAUR FOL A	2	385	29+80.32	25. LT	YES			YES	8	
71	PARSLEY HAWTHORNE	CRATAEGUS MARS-HALL	2	3	29+78.97	4.2 LT	YES					YES
72	PARSLEY HAWTHORNE	CRATAEGUS MARS-HALL	3	28	29+92.99	39.7 L	YES					YES
73	CYPRESS	TAXODUM SPP.	20	257	29+90.54	42.0 LT	YES					YES
74	CYPRESS	TAXODUM SPP.	7	54	29+98.00	44.3 LT	YES					YES
75	HACKBERRY	CELTIS OCC DENAL S	6	3	29+90.72	49.7 LT	YES					YES
76	LAUREL OAK	QUERCUS LAUR FOL A	29	2642	30+05.57	37.8 L	YES	YES				YES
77	HACKBERRY	CELTIS OCC DENAL S	6	3	30+07.40	38.6 LT	YES					YES
78	HACKBERRY	CELTIS OCC DENAL S	5	79	30+07.7	38. LT	YES					YES
79	SPRUCE PINE	PNUS GLABRA	0	3.4	30+05.34	27. LT	YES			YES	4	
80	SWEETGUM	LQU DAMBAR STYRAC FLUA	8	0.8	30+24.80	27.2 L	YES	YES				YES
81	HACKBERRY	CELTIS OCC DENAL S	2	3	30+26.9	36. L	YES					YES
82	HACKBERRY	CELTIS OCC DENAL S	6	3	30+3.77	27.2 LT	YES					YES
83	SWEETGUM	LQU DAMBAR STYRAC FLUA	6	3	30+29.49	25.2 L	YES					YES
84	HACKBERRY	CELTIS OCC DENAL S	5	79	30+37.64	25.4 L	YES			YES	2	
85	SWEETGUM	LQU DAMBAR STYRAC FLUA	9	254	30+43.44	9.9 L	YES			YES	4	
86	HACKBERRY	CELTIS OCC DENAL S	6	3	30+45.28	23.3 LT	YES			YES	2	
87	SWEETGUM	LQU DAMBAR STYRAC FLUA	5	79	30+46.92	23.9 LT	YES			YES	2	
88	SWEETGUM	LQU DAMBAR STYRAC FLUA	7	54	30+58.0	24.2 L	YES			YES	4	
89	CYPRESS	TAXODUM SPP.	3	30.9	30+54.72	31.6 LT	YES	YES		YES	6	
90	HACKBERRY	CELTIS OCC DENAL S	6	3	30+60.32	34.8 LT	YES					YES
91	CYPRESS	TAXODUM SPP.	0	3.4	30+6.9	45.3 L	YES					YES
92	CYPRESS	TAXODUM SPP.	7	54	30+69.0	22.0 LT	YES			YES	4	
93	SWEETGUM	LQU DAMBAR STYRAC FLUA	2	452	30+80.9	20.0 LT	YES			YES	4	
94	CYPRESS	TAXODUM SPP.	0	3.4	30+87.65	22.6 L	YES			YES	4	
95	BLACKGUM	NYSSA SILVATA var	2	452	30+75.96	3.3 LT	YES					YES
96	SWEETGUM	LQU DAMBAR STYRAC FLUA	3	53	30+76.45	32.7 LT	YES					YES
97	HACKBERRY	CELTIS OCC DENAL S	0	3.4	30+78.30	4.7 LT	YES					YES
98	BLACKGUM	NYSSA SILVATA var	8	0.8	30+79.3	44.4 L	YES					YES
99	LAUREL OAK	QUERCUS LAUR FOL A	2	3	30+73.3	42.4 LT	YES					YES
100	HACKBERRY	CELTIS OCC DENAL S	3	28	30+69.	47.3 L	YES					YES

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REVISIONS				JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (904) 385-1263 Fax: (904) 385-8050 Certificate of Authorization: 6222	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE SURVEY	SHEET NO. TR-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CR 2192	LEON	413491-1-52-01			

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**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
01	LAUREL OAK	QUERCUS LAUR FOL A	3	20	30+45.77	55.4 LT	YES			YES	4	
02	HACKBERRY	CELT S OGC DENTAL S	7	54	30+48.8	55.8 LT	YES			YES	4	
03	HACKBERRY	CELT S OGC DENTAL S	4	50	30-50.39	30.1 LT	YES			YES	2	
04	SHORTLEAF PINE	PNUS EC-NATA	26	204	30-34.69	48.1 LT	YES			YES	0	
05	HACKBERRY	CELT S OGC DENTAL S	2	7	30-32.5	43.2 LT	YES			YES	0	
06	HACKBERRY	CELT S OGC DENTAL S	5	29	30-26.84	44.3 LT	YES			YES	2	
07	BLACKGUM	NYSSA SYLVATICA var	8	20	30-28.48	45.0 LT	YES			YES	4	
08	CYPRESS	TAXODIUM SPFL	3	53	30-27.99	5.8 LT	YES			YES	6	
09	SWEETGUM	LIGU DAMBAR STRAC FLUA	3	53	30+25.56	50.3 LT	YES			YES	6	
10	HACKBERRY	CELT S OGC DENTAL S	2	3	30-2.8	50.6 LT	YES			YES	0	
11	HACKBERRY	CELT S OGC DENTAL S	2	3	30-9.52	59.4 LT	YES			YES	0	
12	HACKBERRY	CELT S OGC DENTAL S	1	3	30-7.38	63.4 LT	YES			YES	0	
13	SWEETGUM	LIGU DAMBAR STRAC FLUA	3	254	30-9.8	65.7 LT	YES			YES	4	
14	BLACKGUM	NYSSA SYLVATICA var	3	57	30+2.14	65.7 LT	YES			YES	6	
15	HACKBERRY	CELT S OGC DENTAL S	7	54	30+20.93	64.7 LT	YES			YES	4	
16	MAPLE	ACER SPP.	0	34	30-26.43	69.5 LT	YES			YES	4	
17	LAUREL OAK	QUERCUS LAUR FOL A	5	29	30+29.57	79.3 LT	YES			YES	2	
18	LAUREL	QUERCUS LAUR FOL A	3	29	30+30.27	72.2 LT	YES			YES	0	
19	LAUREL OAK	QUERCUS LAUR FOL A	9	254	30-4.96	77.3 LT	YES			YES	4	
20	HOLLY	ILEX SPP.	2	7	30+49.64	82.4 LT	YES			YES	0	
21	HACKBERRY	CELT S OGC DENTAL S	4	50	30-57.82	65.7 LT	YES			YES	2	
22	LAUREL OAK	QUERCUS LAUR FOL A	3	20	30+63.94	69.1 LT	YES			YES	0	
23	LAUREL OAK	QUERCUS LAUR FOL A	3	26	30-7.1	68.4 LT	YES			YES	0	
24	HACKBERRY	CELT S OGC DENTAL S	3	25	30-76.5	50.7 LT	YES			YES	0	
25	LAUREL OAK	QUERCUS LAUR FOL A	5	29	30+77.98	54.3 LT	YES			YES	2	
26	HACKBERRY	CELT S OGC DENTAL S	2	3	30-83.34	84.6 LT	YES			YES	0	
27	BLACKGUM	NYSSA SYLVATICA var	3	309	30-86.52	54.1 LT	YES			YES	6	
28	CHERRY	PRUNUS CAROLINANA	3	26	30+87.26	46.3 LT	YES			YES	0	
29	HACKBERRY	CELT S OGC DENTAL S	6	7	30+93.55	45.5 LT	YES			YES	2	
30	SWEETGUM	LIGU DAMBAR STRAC FLUA	4	50	30+98.36	45.2 LT	YES			YES	2	
31	BLACKGUM	NYSSA SYLVATICA var	33	342	3-05.76	44.8 LT	YES			YES	6	
32	SWEETGUM	LIGU DAMBAR STRAC FLUA	2	452	3+07.30	43.4 LT	YES			YES	4	
33	HACKBERRY	CELT S OGC DENTAL S	5	25	3-07.52	42.3 LT	YES			YES	2	
34	HACKBERRY	CELT S OGC DENTAL S	2	7	30+92.37	53.0 LT	YES			YES	0	
35	WATER OAK	QUERCUS NIGRA	5	207	30+98.3	58.0 LT	YES			YES	6	
36	LAUREL OAK	QUERCUS LAUR FOL A	7	54	30+29.87	67.0 LT	YES			YES	4	
37	LAUREL	QUERCUS LAUR FOL A	3	28	3+00.46	69.7 LT	YES			YES	0	
38	CYPRESS	TAXODIUM SPFL	4	50	3-09.37	6.0 LT	YES			YES	2	
39	SWEETGUM	LIGU DAMBAR STRAC FLUA	8	08	3-06.65	65.7 LT	YES			YES	6	
40	HACKBERRY	CELT S OGC DENTAL S	1	50	3-3.95	66.3 LT	YES			YES	2	
41	HACKBERRY	CELT S OGC DENTAL S	2	7	3-05.88	73.6 LT	YES			YES	0	
42	CHERRY	PRUNUS CAROLINANA	3	28	3+06.30	77.3 LT	YES			YES	0	
43	CHERRY	PRUNUS CAROLINANA	3	28	3+07.03	71.5 LT	YES			YES	0	
44	SWEETGUM	LIGU DAMBAR STRAC FLUA	3	53	3+05.95	80.1 LT	YES			YES	6	
45	BLACKGUM	NYSSA SYLVATICA var	3	25	3+04.73	77.1 LT	YES			YES	0	
46	LAUREL	QUERCUS LAUR FOL A	2	452	3+07.47	82.3 LT	YES			YES	4	
47	LAUREL	QUERCUS LAUR FOL A	4	50	3+07.30	8.6 LT	YES			YES	2	
48	HACKBERRY	CELT S OGC DENTAL S	2	7	3-06.37	84.6 LT	YES			YES	0	
49	HACKBERRY	CELT S OGC DENTAL S	3	29	30+39.77	85.3 LT	YES			YES	0	
50	BLACKGUM	NYSSA SYLVATICA var	4	50	3+09.82	9.4 LT	YES			YES	2	

NOTES:

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<p>ADITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. 3154 Fliza Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222</p>		<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>		<p>ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01</p>		<p>TREE SURVEY</p>		<p>SHEET NO. TR-5</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>DATE DESCRIPTION</p>					
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TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
5	SWEETGUM	L QU DAMBAR ST* RAC FLUA	4	6.6	3 +04.2	93.2 LT	YES					YES
52	CYPRESS	TAXOD UM SPP.	8	20	3 + 3.50	93.6 L*	YES					YES
53	CYPRESS	TAXOD UM SPP.	6	3	3 + 5.23	90.5 LT	YES					YES
54	SWEETGUM	L QU DAMBAR ST* RAC FLUA	9	254	3 + 0.07	.4 LT	YES					YES
55	BLACKGUM	NYSSA SYLVAT CA var	5	79	3 +07.89	.9 L*	YES					YES
56	LAUREL OAK	QUERCUS LAUR FOL A	5	79	3 +03.20	09.3 L*	YES					YES
57	HACKBERRY	CELT S OCC DEN*AL S	5	79	30-94.5	95.8 L*	YES					YES
58	WATER OAK	QUERCUS N GRA	8	0.8	30-90.92	00.2 LT	YES					YES
59	LAUREL OAK	QUERCUS LAUR FOL A	3	28	30+85.60	98.2 LT	YES					YES
60	LAUREL OAK	QUERCUS LAUR FOL A	7	54	30-92.22	86. L*	YES					YES
61	LAUREL OAK	QUERCUS LAUR FOL A	4	50	30+9 .8	74.6 LT	YES					YES
62	WATER OAK	QUERCUS N GRA	5	79	30+85.9	68.8 LT	YES					YES
63	LAUREL OAK	QUERCUS LAUR FOL A	6	3	30-79.78	66.8 L*	YES					YES
64	WATER OAK	QUERCUS N GRA	5	79	30+78.39	70.9 LT	YES					YES
65	LAUREL OAK	QUERCUS LAUR FOL A	4	50	30+80.55	95.2 LT	YES					YES
66	SWEETGUM	L QU DAMBAR ST* RAC FLUA	2	452	30+79.74	90.6 LT	YES					YES
67	HACKBERRY	CELT S OCC DEN*AL S	6	3	30+74.46	85.5 LT	YES					YES
68	HACKBERRY	CELT S OCC DEN*AL S	3	28	30-75.90	96.3 L*	YES					YES
69	SWEETGUM	L QU DAMBAR ST* RAC FLUA	7	908	30+7 .38	96. L*	YES					YES
70	HACKBERRY	CELT S OCC DEN*AL S	4	50	30-70.85	92.5 L*	YES					YES
71	HACKBERRY	CELT S OCC DEN*AL S	4	50	30-69.50	92.6 L*	YES					YES
72	HACKBERRY	CELT S OCC DEN*AL S	5	79	30+69.8	92.6 L*	YES					YES
73	HACKBERRY	CELT S OCC DEN*AL S	6	3	30+70. 2	94.2 LT	YES					YES
74	HACKBERRY	CELT S OCC DEN*AL S	5	79	30-6 .70	9 .8 L*	YES					YES
75	HACKBERRY	CELT S OCC DEN*AL S	3	28	30-62.26	92.0 L*	YES					YES
76	WATER OAK	QUERCUS N GRA	2	452	30+60.63	87.0 LT	YES					YES
77	HACKBERRY	CELT S OCC DEN*AL S	3	28	30-58.06	87. L*	YES					YES
78	PERSIMMON	D OSP* ROS V RG N ANA	4	50	30+57. 5	85.9 LT	YES					YES
79	HACKBERRY	CELT S OCC DEN*AL S	4	50	30+58.90	8 .2 L*	YES					YES
80	BAY	QUERCUS LAUR FOL A	8	0.8	30-56.79	82.2 L*	YES					YES
81	LAUREL OAK	QUERCUS LAUR FOL A	7	54	30-54.69	78.8 L*	YES					YES
82	HACKBERRY	CELT S OCC DEN*AL S	6	3	28+00.83	26.4 RT	YES					YES
83	LAUREL OAK	QUERCUS LAUR FOL A	9	254	28+02.9	30.3 RT	YES					YES
84	LAUREL OAK	QUERCUS LAUR FOL A	0	3.4	28+04.77	36.0 RT	YES					YES
85	LAUREL OAK	QUERCUS LAUR FOL A	4	50	28+00.26	37.6 RT	YES					YES
86	LAUREL OAK	QUERCUS LAUR FOL A	7	54	28-07.30	48.9 RT	YES					YES
87	LAUREL OAK	QUERCUS LAUR FOL A	5	79	28+ .89	54.2 RT	YES					YES
88	HACKBERRY	CELT S OCC DEN*AL S	2	3	28+ 2.77	58.9 RT	YES					YES
89	LAUREL OAK	QUERCUS LAUR FOL A	6	3	28- 9.53	6 .0 RT	YES					YES
90	LAUREL OAK	QUERCUS LAUR FOL A	7	54	28-27. 0	65.8 RT	YES					YES
91	BAY	QUERCUS LAUR FOL A	4	50	28+27.47	6 . RT	YES					YES
92	LAUREL OAK	QUERCUS LAUR FOL A	6	3	28-3 .04	56.6 RT	YES					YES
93	HACKBERRY	CELT S OCC DEN*AL S	3	28	28-28.4	49.4 RT	YES					YES
94	WATER OAK	QUERCUS N GRA	7	54	28-28. 3	47.7 RT	YES					YES
95	LAUREL OAK	QUERCUS LAUR FOL A	6	3	28- 6.70	38.7 RT	YES					YES
96	LAUREL OAK	QUERCUS LAUR FOL A	7	54	28-20.84	38.7 RT	YES					YES
97	LAUREL OAK	QUERCUS LAUR FOL A	4	50	28+25.68	34.9 RT	YES					YES
98	SPRUCE PINE	P NUS GLABRA	9	254	28+ 6.53	22.2 RT	YES			YES	4	
99	PARSLEY Hawthorne	CRATAGEUS MARS-ALL	5	79	28-25. 5	9.5 RT	YES			YES	2	
200	HACKBERRY	CELT S OCC DEN*AL S	6	3	28+34.8	23.0 RT	YES	YES		YES	2	

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- *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.

REVISIONS				JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 385-1253 Fax: (850) 385-0050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE SURVEY	SHEET NO. TR-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 2192	LEON	413491-1-52-01		

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
20	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28-35.23	21.9 RT	YES			YES	0	
202	LAUREL OAK	QUERCUS LAURIFOLIA	6	3	28-37.32	22.9 RT	YES			YES	0	
203	WATER OAK	QUERCUS NIGRA	0	7.4	28-45.68	22.6 RT	YES			YES	4	
204	WATER OAK	QUERCUS NIGRA	7	54	28-46.53	25.9 RT	YES			YES	4	
205	WATER OAK	QUERCUS NIGRA	8	20	28-5	25.0 RT	YES			YES	4	
206	WATER OAK	QUERCUS NIGRA	9	20	28-5.148	33.7 RT	YES					YES
207	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-44.37	27.8 RT	YES					YES
208	LAUREL OAK	QUERCUS LAURIFOLIA	6	3.4	28-43.92	30.8 RT	YES					YES
209	PERSEPHONE	DIOSPIROS VIRGINIANA	7	25	28-42.64	31.0 RT	YES					YES
210	SWEETGUM	LIGUSTRUM STRYALIFLORA	5	79	28-40.73	34. RT	YES					YES
211	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28-42.00	38. RT	YES					YES
212	LAUREL OAK	QUERCUS LAURIFOLIA	6	3	28-42.66	39.4 RT	YES					YES
213	HACKBERRY	CELTIS OCCIDENTALIS	8	20	28-45.04	45.6 RT	YES					YES
214	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28-37.94	48.6 RT	YES					YES
215	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28-35.03	36. RT	YES					YES
216	BLACKGUM	NYSSA SILVATICA var	8	20	28-32.37	36.0 RT	YES					YES
217	MAPLE	ACER SPP.	4	6.6	28-30.87	37. RT	YES					YES
218	LAUREL OAK	QUERCUS LAURIFOLIA	3	53	28-38.0	60.7 RT	YES					YES
219	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-33.95	69.4 RT	YES					YES
220	WATER OAK	QUERCUS NIGRA	0	7.4	28-45.38	77.2 RT	YES					YES
221	WATER OAK	QUERCUS NIGRA	0	7.07	28-37.87	78.9 RT	YES					YES
222	LAUREL OAK	QUERCUS LAURIFOLIA	3	28	28-45.78	74. RT	YES					YES
223	HACKBERRY	CELTIS OCCIDENTALIS	3	28	28-59.50	82.6 RT	YES					YES
224	HACKBERRY	CELTIS OCCIDENTALIS	2	3	28-6	77.5 RT	YES					YES
225	WATER OAK	QUERCUS NIGRA	7	34	28-67.35	69.9 RT	YES					YES
226	WATER OAK	QUERCUS NIGRA	4	50	28-69.56	36.0 RT	YES					YES
227	HOLLY	ILEX SPP.	4	50	28-61.9	61.2 RT	YES					YES
228	WATER OAK	QUERCUS NIGRA	3	35	28-50.5	57. RT	YES					YES
229	HACKBERRY	CELTIS OCCIDENTALIS	2	3	28-46.35	52.0 RT	YES					YES
230	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-39.77	39.0 RT	YES					YES
231	HACKBERRY	CELTIS OCCIDENTALIS	3	25	28-47.4	36.9 RT	YES					YES
232	LAUREL OAK	QUERCUS LAURIFOLIA	3	28	28-45.32	45.0 RT	YES					YES
233	WATER OAK	QUERCUS NIGRA	2	42	28-45.0	56.3 RT	YES					YES
234	HACKBERRY	CELTIS OCCIDENTALIS	3	26	28-40.30	57.4 RT	YES					YES
235	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-33.30	32.6 RT	YES			YES	2	
236	SPRUCE PINE	PINUS GLABERA	9	254	28-70.50	25.3 RT	YES			YES	4	
237	WATER OAK	QUERCUS NIGRA	27	662	28-79.08	29.9 RT	YES			YES	8	
238	HACKBERRY	CELTIS OCCIDENTALIS	5	79	28-88.00	32.0 RT	YES					YES
239	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-92.43	33.0 RT	YES					YES
240	HACKBERRY	CELTIS OCCIDENTALIS	7	54	28-36.04	40.0 RT	YES					YES
241	HACKBERRY	CELTIS OCCIDENTALIS	6	3	28-47.70	30.6 RT	YES			YES	2	
242	PARSLEY - SAW-TOOTH	FRAXINUS MARSHALLI	3	28	28-45.6	27.2 RT	YES			YES	0	
243	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-14.5	32.9 RT	YES	YES			2	
244	SWEETGUM	LIGUSTRUM STRYALIFLORA	3	34	28-37.94	28.8 RT	YES			YES	8	
245	WATER OAK	QUERCUS NIGRA	7	54	28-39.57	27.4 RT	YES			YES	4	
246	HACKBERRY	CELTIS OCCIDENTALIS	7	57	28-45.67	29.6 RT	YES			YES	4	
247	HACKBERRY	CELTIS OCCIDENTALIS	5	79	28-26.52	30. RT	YES			YES	2	
248	WATER OAK	QUERCUS NIGRA	4	50	28-36.05	33.9 RT	YES			YES	2	
249	HACKBERRY	CELTIS OCCIDENTALIS	4	50	28-30.9	4. RT	YES			YES	2	
250	OAK - DEAD	QUERCUS ALBA	8	20	28-5.47	47.6 RT	DEAD				DEAD	DEAD

NOTES:

- * 1 INCH OF TREE DIAMETER AT 5 FEET ABOVE GROUND (DBH) IS EQUAL TO 1 FOOT OF CANOPY RADIUS FOR THE CALCULATION OF CANOPY AREA (PI * RADIUS SQUARED). THIS NUMBER IS NOT PHYSICALLY MEASURED.
- ** PROTECTED TREES INCLUDE ALL TREES WITHIN A WETLAND AND ALL TREES WITH A DBH OF 18 INCHES OR GREATER.
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REVISIONS		JOHN M. HAYDEN, P.E. P.E. NO.: 43576 Environmental & Geotechnical Specialists, Inc. 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 385-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO. TR-7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO. CR 2192	COUNTY LEON	

TREE SURVEY

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
25	HACKBERRY	CELT S OCC DENTAL S	3	28	29+ .94	45.0 RT	YES					YES
252	HACKBERRY	CELT S OCC DENTAL S	4	50	28+96.75	5 .8 RT	YES					YES
253	LAUREL OAK	QUERCUS LAUR FOL A	7	54	29+00.86	60.0 RT	YES					YES
254	WATER OAK	QUERCUS N GRA	2	452	29+05.99	65.2 RT	YES					YES
255	WATER OAK	QUERCUS N GRA	5	79	28+89.70	63.7 RT	YES					YES
256	HACKBERRY	CELT S OCC DENTAL S	2	3	28+9 .9	69.9 RT	YES					YES
257	HACKBERRY	CELT S OCC DENTAL S	6	3	28+90.97	70.4 RT	YES					YES
258	OAK (DEAD)	QUERCUS LAUR FOL A	7	54	28+67.05	9 .9 RT	DEAD				DEAD	DEAD
259	HACKBERRY	CELT S OCC DENTAL S	2	3	28+70.35	88.9 RT	YES					YES
260	HACKBERRY	CELT S OCC DENTAL S	5	79	28+69.53	88.0 RT	YES					YES
26	HACKBERRY	CELT S OCC DENTAL S	5	79	28+7 .62	94.5 RT	YES					YES
262	PARSLEY HAWTHORNE	CRA AGEUS MARS-ALL	5	79	28+74.75	92.6 RT	YES					YES
263	HAWTHORNE (DEAD)	CRA AGEUS MARS-ALL	3	28	28+75.67	92.8 RT	DEAD				DEAD	DEAD
264	PARSLEY HAWTHORNE	CRA AGEUS MARS-ALL	3	28	28+82.38	95.4 RT	YES					YES
265	LAUREL OAK	QUERCUS LAUR FOL A	7	54	28+85.23	00.3 R	YES					YES
266	OAK (DEAD)	QUERCUS LAUR FOL A	7	380	28+88.49	95.7 RT	DEAD				DEAD	DEAD
267	LAUREL OAK	QUERCUS LAUR FOL A	7	54	29+00.94	03.0 R	YES					YES
268	HACKBERRY	CELT S OCC DENTAL S	3	28	29+0 .80	96.4 RT	YES					YES
269	PARSLEY HAWTHORNE	CRA AGEUS MARS-ALL	3	28	29+08.37	89.8 RT	YES					YES
270	WATER OAK	QUERCUS N GRA	3	380	28+95.83	82.9 RT	YES					YES
27	HACKBERRY	CELT S OCC DENTAL S	3	28	28+76.98	86.4 RT	YES					YES
272	SWEETGUM	L QU DAMBAR ST-RAC FLUA	8	20	28+83.0	83.5 RT	YES					YES
273	OAK (DEAD)	QUERCUS LAUR FOL A	2	452	28+77.46	82.6 RT	DEAD				DEAD	DEAD
274	BA	PERSEA SPP.	6	3	29+23.35	95.5 RT	YES					YES
275	BA	PERSEA SPP.	9	254	29+3 .72	0 .0 R	YES					YES
276	HOLLY	LLEX SPP.	2	3	29+28.48	94.3 RT	YES					YES
277	HACKBERRY	CELT S OCC DENTAL S	9	254	29+35.	9 .3 RT	YES					YES
278	HACKBERRY	CELT S OCC DENTAL S	5	79	29+2 .03	86.6 RT	YES					YES
279	BA	PERSEA SPP.	7	54	29+20.7	79.6 RT	YES					YES
280	CYPRESS (DEAD)	TAXOD UM SPP.	2	3	29+20.08	77.4 RT	DEAD				DEAD	DEAD
28	LAUREL OAK	QUERCUS LAUR FOL A	3	28	29+ 9.38	74.4 RT	YES					YES
282	LAUREL OAK	QUERCUS LAUR FOL A	3	28	29+28.6	68.4 RT	YES					YES
283	LAUREL OAK	QUERCUS LAUR FOL A	5	79	29+29.2	68.5 RT	YES					YES
284	LAUREL OAK	QUERCUS LAUR FOL A	4	50	29+36.3	64. RT	YES					YES
285	WATER OAK	QUERCUS N GRA	6	3	29+36.72	59.0 RT	YES		YES		2	
286	CYPRESS	TAXOD UM SPP.	20	257	29+42.49	59. RT	YES		YES		8	
287	LAUREL OAK	QUERCUS LAUR FOL A	4	50	29+36.98	54.5 RT	YES		YES		2	
288	HACKBERRY	CELT S OCC DENTAL S	3	28	29+27.55	56.9 RT	YES					YES
289	HACKBERRY	CELT S OCC DENTAL S	6	3	29+42.30	47.3 RT	YES		YES		2	
290	HACKBERRY	CELT S OCC DENTAL S	2	3	29+42.73	47.0 RT	YES		YES		0	
29	HACKBERRY	CELT S OCC DENTAL S	7	54	29+46.5	5 .8 RT	YES		YES		4	
292	HACKBERRY	CELT S OCC DENTAL S	3	28	29+52.3	5 .7 RT	YES		YES		0	
293	MAGNOLIA	MAGNOLIA SPP.	2	3	29+54.7	45.6 RT	YES		YES		0	
294	HACKBERRY	CELT S OCC DENTAL S	6	3	29+37.64	34.9 RT	YES		YES		2	
295	HACKBERRY	CELT S OCC DENTAL S	6	3	29+36.50	31.0 RT	YES			YES	2	
296	HACKBERRY	CELT S OCC DENTAL S	2	3	29+56.68	28.0 RT	YES			YES	0	
297	HACKBERRY	CELT S OCC DENTAL S	2	3	29+58.00	27.8 RT	YES			YES	0	
298	HACKBERRY	CELT S OCC DENTAL S	6	3	29+57.04	27.6 RT	YES			YES	2	
299	WATER OAK	QUERCUS N GRA	6	804	29+55.32	32.7 RT	YES		YES		6	
300	CHESTNUT OAK	CASTANEA DENTATA	3	28	29+57.35	42.3 RT	YES		YES		0	

NOTES:

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REVISIONS DATE DESCRIPTION DATE DESCRIPTION				JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists Inc. EGS 3154 Eltra Road Tallahassee, Florida 32308 Office: (850) 388-1253 Fax: (850) 385-8050 Certificate of Authorization: 9222		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01		SHEET NO. TR-8	
				Certificate of Authorization: 9222		TREE SURVEY			

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**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
30	CHESNUT OAK	CASTANEA DENTATA	5	79	29+64.74	29.5 RT	YES			YES	2	
302	HACKBERRY	CELTIS OCCIDENTALIS	2	3	29+75.4	25.6 RT	YES			YES	0	
303	SWEETGUM	LIGUSTRUM STRACYNIFLUA	8	0.6	29+77.44	36.0 RT	YES		YES		6	
304	HACKBERRY	CELTIS OCCIDENTALIS	2	3	29+79.83	4.8 RT	YES		YES		0	
305	BLACKGUM	NYSSA SYLVATICA var		380	29+76.83	45.2 RT	YES		YES		4	
306	SWEETGUM	LIGUSTRUM STRACYNIFLUA	5	707	29+69.44	52.5 RT	YES		YES		6	
307	HACKBERRY	CELTIS OCCIDENTALIS	5	73	29+65.09	37.5 RT	YES		YES		2	
308	PARSLEY HAWTHORNE	CHRATAEGUS MARFALIA	2	3	29+63.79	58.3 RT	YES		YES		0	
309	WATER OAK	QUERCUS NIGRA	3	28	29+56.9	65.4 RT	YES		YES		0	
310	SWEETGUM	LIGUSTRUM STRACYNIFLUA	9	34	29+69.85	7.0 RT	YES		YES		8	
31	HACKBERRY	CELTIS OCCIDENTALIS	4	50	29+72.72	7.6 RT	YES		YES		2	
312	HACKBERRY	CELTIS OCCIDENTALIS	3	28	29+53.77	76.4 RT	YES					YES
313	HACK	CELTIS OCCIDENTALIS	4	50	29+57.23	80.0 RT	YES					YES
314	HACKBERRY	CELTIS OCCIDENTALIS	4	50	29+50.3	76.4 RT	YES					YES
315	LAUREL OAK	QUERCUS LAURIFOLIA	5	79	29+4.39	78.0 RT	YES					YES
316	MAPLE	ACER SPP.	4	50	29+40.2	82.5 RT	YES					YES
317	SWEETGUM	LIGUSTRUM STRACYNIFLUA	24	9.0	29+42.57	99.3 RT	YES					YES
318	LAUREL OAK	QUERCUS LAURIFOLIA	2	3	29+4.0	0.8 RT	YES					YES
319	LAUREL OAK	QUERCUS LAURIFOLIA	1	28	29+53.3	96.4 RT	YES					YES
320	BLACKGUM	NYSSA SYLVATICA var	5	0.8	29+63.9	92.5 RT	YES					YES
321	CHESNUT OAK	CASTANEA DENTATA	2	3	29+69.80	37.7 RT	YES					YES
322	WATER OAK	QUERCUS NIGRA	1	54	29+6.42	36.0 RT	YES					YES
323	LAUREL OAK	QUERCUS LAURIFOLIA	5	79	29+70.42	93.5 RT	YES					YES
324	HACKBERRY	CELTIS OCCIDENTALIS	3	3	29+72.56	8.4 RT	YES					YES
325	SWEETGUM	LIGUSTRUM STRACYNIFLUA	8	0.8	29+79.00	8.1 RT	YES	YES				YES
326	CHESNUT OAK	CASTANEA DENTATA	2	3	29+86.50	86.3 RT	YES					YES
327	WATER OAK	QUERCUS NIGRA	6	304	29+39.88	83.8 RT	YES					YES
328	LAUREL OAK	QUERCUS LAURIFOLIA	6	3	29+88.97	93.5 RT	YES					YES
329	SWEETGUM	LIGUSTRUM STRACYNIFLUA	3	08	29+89.56	37.6 RT	YES					YES
330	CHESNUT OAK	CASTANEA DENTATA	1	08	29+87.86	30.5 RT	YES					YES
331	CHERRY	PRUNUS CAROLINIANA	4	50	30+22.43	95.8 RT	YES					YES
332	BLACKGUM	NYSSA SYLVATICA var	5	79	30+22.95	93.0 RT	YES					YES
333	BLACKGUM	NYSSA SYLVATICA var	3	25	30+26.77	9.4 RT	YES					YES
334	BLACKGUM	NYSSA SYLVATICA var	2	3	30+27.2	9.2 RT	YES					YES
335	LAUREL OAK	QUERCUS LAURIFOLIA	4	50	30+1.09	80.8 RT	YES					YES
336	BLACKGUM	NYSSA SYLVATICA var	0	3.4	30+3.95	73.8 RT	YES					YES
337	CYPRESS	TAXODIUM SPP.		380	30+5.60	83.9 RT	YES					YES
338	MAPLE	ACER SPP.		360	30+8.43	73.8 RT	YES	YES				YES
339	BLACKGUM	NYSSA SYLVATICA var	5	3	30+3.37	70.3 RT	YES					YES
340	SWEETGUM	LIGUSTRUM STRACYNIFLUA	5	79	30+5.2	82.1 RT	YES		YES		2	
341	SWEETGUM	LIGUSTRUM STRACYNIFLUA	2	3	30+3.87	69.9 RT	YES		YES		0	
342	CHESNUT OAK	CASTANEA DENTATA	1	50	30+0.93	70.3 RT	YES		YES		0	
343	MAPLE	ACER SPP.	2	3	30+4.47	70.7 RT	YES		YES		0	
344	LAUREL OAK	QUERCUS LAURIFOLIA	4	50	29+88.90	67.4 RT	YES		YES		0	
345	LAUREL OAK	QUERCUS LAURIFOLIA	3	28	29+96.8	64.1 RT	YES		YES		0	
346	BLACKGUM	NYSSA SYLVATICA var	5	79	29+10.98	60.3 RT	YES		YES		2	
347	SWEETGUM	LIGUSTRUM STRACYNIFLUA	9	254	29+34.38	59.7 RT	YES		YES		4	
348	HACKBERRY	CELTIS OCCIDENTALIS	5	79	29+85.6	5.3 RT	YES		YES		2	
349	HACKBERRY	CELTIS OCCIDENTALIS	4	50	29+85.20	60.7 RT	YES		YES		2	
350	HACKBERRY	CELTIS OCCIDENTALIS	3	254	29+87.66	29.2 RT	YES		YES		4	

NOTES:

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- *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.

REVISIONS				JORTH H. HARDEN, P.E. Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office (850) 386-1253 Fax (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE SURVEY	SHEET NO. TR-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 2192	LEON	413491-1-52-01		

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**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CP2)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
35	HACKBERRY	CELT S OCC DEN TAL S	8	20	29+96.7	28.0 RT	YES			YES	4	
352	HACKBERRY	CELT S OCC DEN TAL S	3	28	30+03.47	29.2 RT	YES			YES	0	
353	WALLOW	SAP UM SEB FERUM	8	20	30+06.6	34.9 RT	YES		YES		4	
354	SWEETGUM	L QU DAMBAR ST RAC FLUA	5	79	30+00.79	38.7 RT	YES		YES		2	
355	CYPRESS	TAXOD UM SPP.	2	385	30+05.46	4.2 RT	YES		YES		8	
356	LAUREL	QUERCUS LAUR FOL A	3	28	30+07.67	46.6 RT	YES		YES		0	
357	SWEETGUM	L QU DAMBAR ST RAC FLUA	7	54	30+07.42	6.3 RT	YES		YES		4	
358	SWEETGUM	L QU DAMBAR ST RAC FLUA	h	3	30+0.76	65.4 RT	YES		YES		2	
359	SWEETGUM	L QU DAMBAR ST RAC FLUA	7	54	30+0.62	69.2 RT	YES		YES		4	
360	SWEETGUM	L QU DAMBAR ST RAC FLUA	9	254	30+4.58	60.5 RT	YES		YES		4	
36	LAUREL OAK	QUERCUS LAUR FOL A	6	804	30+6.56	57.4 RT	YES		YES		6	
362	LAUREL OAK	QUERCUS LAUR FOL A	3	28	30+7.9	56.9 RT	YES		YES		0	
363	SWEETGUM	L QU DAMBAR ST RAC FLUA	2	3	30+8.15	48.7 RT	YES		YES		0	
364	SWEETGUM (DEAD)	L QU DAMBAR ST RAC FLUA	2	3	30+2.8	49.8 RT	DEAD				DEAD	DEAD
365	CHESTNUT OAK	CASTANEA DEN TATA	2	3	30+4.38	48.8 RT	YES		YES		0	
366	CHESTNUT OAK	CASTANEA DEN TATA	3	28	30+4.80	44.0 RT	YES		YES		0	
367	HACKBERRY	CELT S OCC DEN TAL S	6	3	30+7.45	40.8 RT	YES		YES		2	
368	MAPLE	ACER SPP.	8	20	30+23.89	35.7 RT	YES		YES		4	
369	SWEETGUM	L QU DAMBAR ST RAC FLUA	2	452	30+28.35	36. RT	YES		YES		4	
370	SWEETGUM	L QU DAMBAR ST RAC FLUA	2	452	30+30.08	36.0 RT	YES		YES		4	
37	LAUREL OAK	QUERCUS LAUR FOL A	2	3	30+33.37	33.6 RT	YES		YES		0	
372	MAPLE	ACER SPP.	6	804	30+32.52	26.3 RT	YES		YES		6	
373	HACKBERRY	CELT S OCC DEN TAL S	9	254	30+28.2	24.5 RT	YES		YES		4	
374	HACKBERRY	CELT S OCC DEN TAL S	3	28	30+29.22	23.4 RT	YES		YES		0	
375	HACKBERRY	CELT S OCC DEN TAL S	3	28	30+27.06	24.3 RT	YES		YES		0	
376	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+22.07	24.6 RT	YES		YES		0	
377	HICKORY	CARYA SPP.	7	54	30+39.97	23.6 RT	YES		YES		4	
378	SWEETGUM	L QU DAMBAR ST RAC FLUA	9	34	30+42.75	25.8 RT	YES		YES		8	
379	BLACKGUM	N YSSA SYLVAT CA var	4	50	30+40.76	29.2 RT	YES		YES		2	
380	CHESTNUT OAK	CASTANEA DEN TATA	2	3	30+46.34	37.2 RT	YES		YES		0	
38	HICKORY	CARYA SPP.	5	79	30+48.53	35.7 RT	YES		YES		2	
382	MAPLE	ACER SPP.	6	3	30+49.34	34.6 RT	YES		YES		2	
383	HACKBERRY	CELT S OCC DEN TAL S	5	79	30+5.55	3.5 RT	YES		YES		2	
384	SWEETGUM	L QU DAMBAR ST RAC FLUA	5	79	30+52.22	32.7 RT	YES		YES		2	
385	SWEETGUM	L QU DAMBAR ST RAC FLUA	9	254	30+57.6	27.5 RT	YES		YES		4	
386	SWEETGUM	L QU DAMBAR ST RAC FLUA	7	54	30+54.96	25.0 RT	YES		YES		4	
387	SWEETGUM	L QU DAMBAR ST RAC FLUA	6	3	30+55.84	22.2 RT	YES		YES		2	
388	PERSIMMON	D OSPYROS V RG N ANA	5	79	30+51.28	20.0 RT	YES		YES		2	
389	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+48.72	9.6 RT	YES		YES		0	
390	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+48.5	2.3 RT	YES		YES		0	
39	GUM (DEAD)	L QU DAMBAR ST RAC FLUA	7	54	30+59.05	23.5 RT	DEAD				DEAD	DEAD
392	CYPRESS	TAXOD UM SPP.	5	79	30+66.42	20.6 RT	YES		YES		2	
393	BLACKGUM	N YSSA SYLVAT CA var	4	50	30+70.66	24.0 RT	YES		YES		2	
394	PERSIMMON	D OSPYROS V RG N ANA	4	50	30+74.62	2.7 RT	YES		YES		2	
395	CHESTNUT OAK (DEAD)	CASTANEA DEN TATA	2	3	30+73.89	30.8 RT	DEAD				DEAD	DEAD
396	SWEETGUM	L QU DAMBAR ST RAC FLUA	9	254	30+69.07	35.6 RT	YES		YES		4	
397	LAUREL OAK	QUERCUS LAUR FOL A	2	3	30+67.7	36.6 RT	YES		YES		0	
398	CYPRESS	TAXOD UM SPP.	9	254	30+66.75	37.5 RT	YES		YES		4	
399	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+68.32	40.8 RT	YES		YES		0	
400	HACKBERRY	CELT S OCC DEN TAL S	5	79	30+7.74	40.5 RT	YES		YES		2	

NOTES:

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DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION	

JUDITH M. HAYDEN, P.E. P.E. NO.: 43976
Environmental & Geotechnical Specialists, Inc.
EGS
3154 Eliza Road
Tallahassee, Florida 32308
Office: (850) 365-1253
Fax: (850) 365-8050
Certificate of Authorization: 6222

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO.: CR 2192 COUNTY: LEON FINANCIAL PROJECT ID: 413491-1-52-01

TREE SURVEY

SHEET NO. TR-10

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6605-23.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
40	HACABERRY	VELUTINOCOC DENTATA	5	79	30+65.23	45.6 RT	YES					YES
402	CYPRESS	TAXODIUM SPP.	5	70	30+59.46	41.5 RT	ES					YES
403	BLACKGUM	NYSSA SYLVATICA var	3	53	30+59.65	47.4 RT	YES					YES
404	CYPRESS	TAXODIUM SPP.	2	3	30+61.03	48.0 RT	YES					YES
405	CYPRESS	TAXODIUM SPP.	3	26	30+55.73	48.3 RT	YES					YES
406	CYPRESS	TAXODIUM SPP.	6	3	30+52.14	54.1 RT	YES					YES
407	PERSIMMON	DIOSPYROS VIRGINIANA	2	3	30+49.56	51.2 RT	YES					YES
408	CHESNUT OAK	CASTANEA DENTATA	3	28	30+47.32	46.2 RT	YES					YES
409	BLACKGUM	NYSSA SYLVATICA var	8	20	30+44.82	53.5 RT	YES	YES				YES
410	BLACKGUM	NYSSA SYLVATICA var	3	26	30+43.48	53.0 RT	YES					YES
411	BLACKGUM	NYSSA SYLVATICA var	8	20	30+41.52	52.3 RT	YES	ES				YES
412	BLACKGUM	NYSSA SYLVATICA var	5	79	30+40.34	54.9 RT	YES					YES
413	WHITE OAK	QUERCUS ALBA	2	3	30+38.12	55.2 RT	YES					YES
414	PERSIMMON	DIOSPYROS VIRGINIANA	4	50	30+34.54	53.2 RT	YES		YES		2	
415	PERSIMMON	DIOSPYROS VIRGINIANA	2	3	30+33.56	44.6 RT	YES		YES		0	
416	CHERRY	FRUNUS CAROLINIANA	6	2	30+30.22	46.2 RT	YES		YES		2	
417	PERSIMMON	DIOSPYROS VIRGINIANA	7	54	30+29.8	49.6 RT	YES		YES		4	
418	PERSIMMON	DIOSPYROS VIRGINIANA	5	3	30+27.04	47.7 RT	YES		YES		2	
419	PERSIMMON	DIOSPYROS VIRGINIANA	6	3	30+27.59	53.5 RT	YES		YES		2	
420	BLACKGUM	NYSSA SYLVATICA var	5	79	30+24.22	57.1 RT	YES		YES		2	
421	BLACKGUM	NYSSA SYLVATICA var	6	3	30+24.8	55.4 RT	YES		YES		2	
422	BLACKGUM	NYSSA SYLVATICA var	3	28	30+25.89	53.5 RT	YES		YES		0	
423	PARSLEY HAWTHORNE	FRATAGEUS MARSHALL	4	50	30+20.46	62.1 RT	YES		YES		2	
424	SWEETGUM	LIGUSTRUM STRYRAC FLUA	4	50	30+22.83	66.1 RT	YES		YES		2	
425	BLACKGUM	NYSSA SYLVATICA var	5	79	30+29.26	48.3 RT	YES					YES
426	BLACKGUM	NYSSA SYLVATICA var	4	50	30+21.59	71.0 RT	YES					YES
427	BLACKGUM	NYSSA SYLVATICA var	2	3	30+22.1	71.2 RT	YES					YES
428	SWEETGUM	LIGUSTRUM STRYRAC FLUA	4	50	30+35.39	64.0 RT	YES					YES
429	SWEETGUM	LIGUSTRUM STRYRAC FLUA	3	54	30+34.49	64.7 RT	YES					YES
430	BLACKGUM	NYSSA SYLVATICA var	3	28	30+35.20	63.1 RT	YES					YES
431	LAUREL OAK	QUERCUS LAURIFOLIA	3	28	30+38.25	65.6 RT	YES					YES
432	BLACKGUM	NYSSA SYLVATICA var	5	79	30+43.04	65.7 RT	YES					YES
433	SWEETGUM	LIGUSTRUM STRYRAC FLUA	0	34	30+42.73	63.8 RT	YES					YES
434	CYPRESS	TAXODIUM SPP.	4	56	30+43.36	70.7 RT	ES					YES
435	UNKNOWN		4	50	30+46.3	70.6 RT	YES					YES
436	LAUREL OAK	QUERCUS LAURIFOLIA	5	79	30+43.25	73.6 RT	YES					YES
437	SWEETGUM	LIGUSTRUM STRYRAC FLUA	3	53	30+41.1	73.4 RT	YES					YES
438	LAUREL OAK	QUERCUS LAURIFOLIA	5	79	30+39.38	61.1 RT	YES					YES
439	LAUREL OAK	QUERCUS LAURIFOLIA	2	3	30+37.38	83.3 RT	YES					YES
440	SWEETGUM	LIGUSTRUM STRYRAC FLUA	8	20	30+35.68	64.4 RT	YES					YES
441	SWEETGUM	LIGUSTRUM STRYRAC FLUA	5	79	30+36.05	88.3 RT	YES					YES
442	SWEETGUM	LIGUSTRUM STRYRAC FLUA	7	54	30+40.1	89.2 RT	YES					YES
443	BLACKGUM	NYSSA SYLVATICA var	3	254	30+28.50	93.7 RT	YES					YES
444	BLACKGUM	NYSSA SYLVATICA var	4	50	30+24.49	80.3 RT	YES					YES
445	LAUREL OAK	QUERCUS LAURIFOLIA	2	3	30+23.70	95.0 RT	YES					YES
446	LAUREL OAK	QUERCUS LAURIFOLIA	4	50	30+23.24	88.4 RT	YES					YES
447	LAUREL OAK	QUERCUS LAURIFOLIA	2	3	30+28.95	90.7 RT	YES					YES
448	SWEETGUM	LIGUSTRUM STRYRAC FLUA	6	3	30+27.50	91.8 RT	YES					YES
449	SWEETGUM	LIGUSTRUM STRYRAC FLUA	0	34	30+27.74	97.0 RT	YES					YES
450	CYPRESS	TAXODIUM SPP.	3	28	30+28.45	94.8 RT	YES					YES

NOTES:

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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION			<table border="1"> <thead> <tr> <th colspan="2">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		DESCRIPTION				AIDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Filza Road Tallahassee, Florida 32308 Office: (850) 366-1253 Fax: (850) 365-9050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>CR 2192</td> <td>LEON</td> <td>413491-1-52-01</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CR 2192	LEON	413491-1-52-01	SHEET NO. TR-11
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TREE SURVEY

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**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
45	CYPRESS	TAXODIUM SPP.		380	30+32.33	94.7 RT	YES					YES
452	SWEETGUM	L QU DAMBAR ST/RAC FLUA	4	50	30+36.7	96.9 RT	YES					YES
453	SWEETGUM	L QU DAMBAR ST/RAC FLUA	0	3.4	30+33.9	94. RT	YES					YES
454	HACKBERRY	CELT S OCC DEN TAL S	2	3	30+26.94	0. RT	YES					YES
455	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+23.62	0.6 RT	YES					YES
456	CYPRESS	TAXODIUM SPP.	2	385	30+ 8.24	99.9 RT	YES					YES
457	CYPRESS	TAXODIUM SPP.	5	707	30+20.03	93.7 RT	YES					YES
458	SWEETGUM	L QU DAMBAR ST/RAC FLUA	4	50	30+4 .69	96.5 RT	YES					YES
459	SWEETGUM	L QU DAMBAR ST/RAC FLUA	6	3	30+43.29	98.9 RT	YES					YES
460	HACKBERRY	CELT S OCC DEN TAL S	5	79	30+53.26	04.8 RT	YES					YES
46	HACKBERRY	CELT S OCC DEN TAL S	6	3	30+53.08	04.2 RT	YES					YES
462	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+57.8	95.9 RT	YES					YES
463	SWEETGUM (DEAD)	L QU DAMBAR ST/RAC FLUA	9	254	30+62.38	85.8 RT	DEAD			DEAD	DEAD	DEAD
464	OAK (DEAD)	QUERCUS LAUR FOL A	20	257	30+57.59	82. RT	DEAD			DEAD	DEAD	DEAD
465	DOGWOOD	CORNUS SPP.	5	79	30+64.0	84.6 RT	YES					YES
466	PERSIMMON	D OSPYROS V RG N ANA	3	28	30+63.08	79.9 RT	YES					YES
467	SWEETGUM	L QU DAMBAR ST/RAC FLUA		380	30+68.29	74.0 RT	YES					YES
468	LAUREL OAK	QUERCUS LAUR FOL A	4	50	30+60.24	74.3 RT	YES					YES
469	PERSIMMON	D OSPYROS V RG N ANA	2	3	30+63. 9	68.9 RT	YES					YES
470	HACKBERRY	CELT S OCC DEN TAL S	8	20	30+66.85	66.5 RT	YES					YES
47	BLACKGUM	N YSSA SYLVAT CA var	3	28	30+66.92	60. RT	YES					YES
472	LAUREL OAK	QUERCUS LAUR FOL A	6	3	30+65. 6	59.9 RT	YES					YES
473	BLACKGUM	N YSSA SYLVAT CA var	3	28	30+63.5	6. 2 RT	YES					YES
474	BLACKGUM	N YSSA SYLVAT CA var	4	50	30+60.68	59.5 RT	YES					YES
475	HACKBERRY	CELT S OCC DEN TAL S	2	3	30+55.33	64.3 RT	YES					YES
476	CHESTNUT OAK	CASTANEA DEN TATA	2	3	30+50.83	6. 9 RT	YES					YES
477	PARSLEY HAWTHORNE	CRA TAGEUS MARS HALL	2	3	30+48.00	65.4 RT	YES					YES
478	PARSLEY HAWTHORNE	CRA TAGEUS MARS HALL	2	3	30+47.80	6. RT	YES					YES
479	CHESTNUT OAK	CASTANEA DEN TATA	2	3	30+46. 7	6. 0 RT	YES					YES
480	BLACKGUM	N YSSA SYLVAT CA var	7	54	30+48.04	59.0 RT	YES					YES
48	WAX MYRTLE	MYRTICA CER FERRA	3	28	30+70.36	58.6 RT	YES			YES	0	
482	SWEETGUM	L QU DAMBAR ST/RAC FLUA	2	385	30+72.45	5. 7 RT	YES			YES	8	
483	BLACKGUM	N YSSA SYLVAT CA var	5	707	30+79.28	52.6 RT	YES			YES	6	
484	HACKBERRY	CELT S OCC DEN TAL S	7	54	30+7. 46	49.2 RT	YES			YES	4	
485	BLACKGUM	N YSSA SYLVAT CA var	2	452	30+74.05	48. RT	YES			YES	4	
486	BLACKGUM	N YSSA SYLVAT CA var	3	28	30+64.56	33.9 RT	YES					YES
487	LAUREL OAK	QUERCUS LAUR FOL A	3	28	29+83.55	60.8 RT	YES		YES		0	
488	LAUREL OAK	QUERCUS LAUR FOL A	2	3	29+82. 4	78.5 RT	YES					YES
489	CHESTNUT OAK	CASTANEA DEN TATA	3	28	29+ 7.65	58.7 RT	YES					YES
490	HACKBERRY	CELT S OCC DEN TAL S	2	3	29+0.92	59.7 RT	YES					YES
49	PARSLEY HAWTHORNE	CRA TAGEUS MARS HALL	7	54	30+96.63	23. RT	YES			YES	4	
492	BLACKGUM	N YSSA SYLVAT CA var	5	79	30+97.32	23.2 RT	YES			YES	2	
493	LAUREL OAK	QUERCUS LAUR FOL A	7	908	30+96. 5	24.4 RT	YES			YES	6	
494	HACKBERRY	CELT S OCC DEN TAL S	3	28	31+02.62	24.9 RT	YES			YES	0	
495	HACKBERRY	CELT S OCC DEN TAL S	5	79	31+02.46	24.0 RT	YES			YES	2	
496	BLACKGUM	N YSSA SYLVAT CA var	6	3	30+95.60	30.7 RT	YES		YES		2	
497	LAUREL OAK	QUERCUS LAUR FOL A	2	3	30+95. 3	30.2 RT	YES		YES		0	
498	BLACKGUM	N YSSA SYLVAT CA var	3	28	30+92.78	26.2 RT	YES			YES	0	
499	LAUREL OAK	QUERCUS LAUR FOL A	2	3	30+92.27	25.7 RT	YES			YES	0	
500	CYPRESS	TAXODIUM SPP.	2	3	30+9. 05	26.5 RT	YES			YES	0	

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REVISIONS DATE DESCRIPTION DATE DESCRIPTION		JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 396-1253 Fax: (850) 365-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TREE SURVEY	SHEET NO. TR-12
ROAD NO.	COUNTY		FINANCIAL PROJECT ID			
CR 2192	LEON	413491-1-52-01				

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TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CP2)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
50	CYPRESS	TAXODIUM SP.	3	7	30+86.8	26.4 RT	YES			YES	2	
502	BLACKGUM	NYSSA SYLVATA var	4	50	30+92.52	36.9 RT	YES		YES		0	
503	BLACKGUM	NYSSA SYLVATA var	2	3	30+99.52	44.9 RT	YES		YES		0	
504	BLACKGUM	NYSSA SYLVATA var	4	20	30+96.22	42.9 RT	YES		YES		4	
505	BLACKGUM	NYSSA SYLVATA var	2	3	30+94.99	44.7 RT	YES		YES		0	
506	CHERRY	PRINUS LAROLINA	2	7	3+03.46	45.4 RT	YES		YES		0	
507	SWEETGUM	LIGU DAMBAR ST. RAL FLUA		380	3+03.49	43.8 RT	YES		YES		4	
508	HACKBERRY	CELTIS OCCIDENTALIS	4	50	3+05.88	49.8 RT	YES		YES		2	
509	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	4	6.6	3+01.73	52.5 RT	YES		YES		6	
510	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	5	707	3+01.24	54.1 RT	YES		YES		6	
511	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	7	54	3+06.26	29.5 RT	YES		YES		4	
512	HACKBERRY	CELTIS OCCIDENTALIS	5	79	3+4.33	36.1 RT	YES		YES		2	
513	HACKBERRY	CELTIS OCCIDENTALIS	8	20	3+4.83	35.2 RT	YES		YES		4	
514	BLACKGUM (DEAD)	NYSSA SYLVATA var	8	0.2	3+06.81	38.9 RT	DEAD			YES	DEAD	DEAD
515	BAY	PERSEA SP.	3	28	3+4.62	27.4 RT	YES			YES	0	
516	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	7	54	3+3.56	52.3 RT	YES		YES		4	
517	HACKBERRY	CELTIS OCCIDENTALIS	2	7	3+5.72	53.8 RT	YES		YES		0	
518	HACKBERRY	CELTIS OCCIDENTALIS	4	50	3+6.36	53.6 RT	YES		YES		2	
519	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+4.12	63.4 RT	YES		YES		0	
520	HACKBERRY	CELTIS OCCIDENTALIS	4	50	3+04.26	71.5 RT	YES	YES			2	
521	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	2	152	3+01.30	68.3 RT	YES	YES			4	
522	HACKBERRY	CELTIS OCCIDENTALIS	3	29	30+39.40	69.7 RT	YES	YES			0	
523	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	5	79	3+00.59	65.0 RT	YES	YES			2	
524	PARSLEY -HAWTHORNE	CRATAEGUS MARSHALLI	2	7	30+89.99	65.6 RT	YES					YES
525	PARSLEY -HAWTHORNE	CRATAEGUS MARSHALLI	3	79	30+91.09	65.3 RT	YES					YES
526	PARSLEY -HAWTHORNE	CRATAEGUS MARSHALLI	3	28	30+91.04	53.1 RT	YES		YES		0	
527	HACKBERRY (DEAD)	CELTIS OCCIDENTALIS	0	3.4	3+00.25	53.3 RT	DEAD			YES	DEAD	DEAD
528	CHERRY	PRINUS LAROLINA	5	79	3+00.73	52.2 RT	YES		YES		2	
529	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	3	90.4	30+98.58	81.3 RT	YES					YES
530	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+06.02	79.2 RT	YES	YES				YES
531	LAUREL OAK	QUERCUS LAURIFOLIA	2	3	3+06.20	79.5 RT	YES					YES
532	HACKBERRY	CELTIS OCCIDENTALIS	2	3	30+97.74	80.9 RT	YES					YES
533	WATER OAK	QUERCUS NIGRA	3	28	30+89.22	77.4 RT	YES					YES
534	WATER OAK	QUERCUS NIGRA	4	50	30+99.35	89.3 RT	YES					YES
535	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+07.12	86.5 RT	YES					YES
536	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+04.93	88.2 RT	YES					YES
537	HACKBERRY	CELTIS OCCIDENTALIS	3	28	3+05.47	86.2 RT	YES					YES
538	HACKBERRY	CELTIS OCCIDENTALIS	3	28	3+06.12	85.3 RT	YES					YES
539	BLACKGUM	NYSSA SYLVATA var	8	20	3+09.56	86.4 RT	YES					YES
540	LAUREL OAK	QUERCUS LAURIFOLIA	6	3	3+3.63	83.9 RT	YES					YES
541	BAY	PERSEA SP.	6	80.4	3+01.54	30.8 RT	YES					YES
542	PARSLEY -HAWTHORNE	CRATAEGUS MARSHALLI	5	79	3+3.47	77.9 RT	YES					YES
543	HACKBERRY	CELTIS OCCIDENTALIS	5	79	3+4.27	90.4 RT	YES					YES
544	HACKBERRY	CELTIS OCCIDENTALIS	2	7	3+3.6	91.5 RT	YES					YES
545	BLACKGUM	NYSSA SYLVATA var	5	79	3+01.97	94.9 RT	ED					YES
546	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	2	385	30+81.56	02.2 RT	YES					YES
547	SWEETGUM	LIGU DAMBAR ST. RAL FLUA	8	20	30+79.47	00.3 RT	YES					YES
548	BLACKGUM	NYSSA SYLVATA var	9	33	30+95.32	07.4 RT	YES					YES
549	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+20.85	03.5 RT	YES					YES
550	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+20.38	03.5 RT	YES					YES

NOTES:

- * 1 INCH OF TREE DIAMETER AT 5 FEET ABOVE GROUND (DBH) IS EQUAL TO 1 FOOT OF CANOPY RADIUS FOR THE CALCULATION OF CANOPY AREA (PI * RADIUS SQUARED). THIS NUMBER IS NOT PHYSICALLY MEASURED.
- ** PROTECTED TREES INCLUDE ALL TREES WITHIN A WETLAND AND ALL TREES WITH A DBH OF 18 INCHES OR GREATER.
- *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		JORTH W. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Etza Road Tallahassee, Florida 32308 Office: (904) 386-1253 Fax: (904) 385-8050 Certificate of Authorization: 6222		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01		SHEET NO. TR-13	
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NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
55	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -20.06	03. RT	YES					YES
552	C- NA BERRY		5	79	3 +56.77	88.8 RT	YES					YES
553	SWEETGUM	L QU DAMBAR ST* RAC FLUA	2	3	3 +52.26	9.3 RT	YES					YES
554	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -50.15	94.9 RT	YES					YES
555	WAY MYRTLE	MYR CA CER FERA	2	3	3 +63.08	84.9 RT	YES					YES
556	WAY MYRTLE	MYR CA CER FERA	2	3	3 +5.3	84.7 RT	YES					YES
557	PARSLEY -AWT-ORNE	DRACAREUS MARS-HALL	2	3	3 -48.70	83.6 RT	YES					YES
558	BAY	PERSEA SPP.	2	3	3 -4.54	79.7 RT	YES					YES
559	HACKBERRY	CELT S OCC DENTAL S	6	3	3 +32.43	79.8 RT	YES					YES
560	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -32.30	79. RT	YES					YES
56	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -22.73	73.6 RT	YES		YES		2	
562	WATER OAK	QUERCUS N GRA	7	54	3 -32.20	72.3 RT	YES		YES		4	
563	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -44.37	71.0 RT	YES		YES		0	
564	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -3.9	64.2 RT	YES		YES		2	
565	WATER OAK	QUERCUS N GRA	3	53	3 +33.67	60.4 RT	YES		YES		6	
566	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -43.0	58.9 RT	YES		YES		2	
567	MAPLE	ACER SPP.	8	20	3 +53.88	47.7 RT	YES			YES	4	
568	HACKBERRY	CELT S OCC DENTAL S	2	3	3 -4.29	45.7 RT	YES			YES	0	
569	WATER OAK	QUERCUS N GRA	0	3	3 +38.5	47.3 RT	YES		YES		4	
570	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -26.83	47.2 RT	YES		YES		0	
57	WATER OAK	QUERCUS N GRA	4	50	3 +3.27	34.6 RT	YES			YES	2	
572	LAUREL OAK	QUERCUS LAUR FOL 4	5	79	3 +28.04	29.8 RT	YES			YES	2	
573	SWEETGUM	L QU DAMBAR ST* RAC FLUA	3	28	3 +42.5	34.7 RT	YES			YES	0	
574	WATER OAK	QUERCUS N GRA	4	50	3 +45.76	3. RT	YES			YES	2	
575	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -5.30	28.9 RT	YES			YES	2	
576	HACKBERRY	CELT S OCC DENTAL S	6	3	3 -48.90	26.9 RT	YES			YES	2	
577	HACKBERRY	CELT S OCC DENTAL S	2	3	3 -53.4	29.9 RT	YES			YES	0	
578	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -53.96	33.8 RT	YES			YES	2	
579	SWEETGUM (DEAD)	L QU DAMBAR ST* RAC FLUA	5	707	3 +57.05	31.8 RT	DEAD				DEAD	DEAD
580	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -6.87	56.2 RT	YES		YES		0	
58	HACKBERRY	CELT S OCC DENTAL S	2	3	3 -78.93	47.6 RT	YES			YES	0	
582	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -78.2	47.4 RT	YES			YES	2	
583	SWEETGUM	L QU DAMBAR ST* RAC FLUA	2	452	3 +82.2	43.4 RT	YES			YES	4	
584	HACKBERRY	CELT S OCC DENTAL S	7	54	3 +76.54	33.2 RT	YES			YES	4	
585	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -49.40	34.2 RT	YES			YES	0	
586	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -63.80	35.7 RT	YES			YES	2	
587	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -59.36	36.2 RT	YES			YES	0	
588	HACKBERRY	CELT S OCC DENTAL S	6	3	3 +65.5	3.5 RT	YES			YES	2	
589	HACKBERRY	CELT S OCC DENTAL S	4	50	3 +85.26	33.5 RT	YES			YES	2	
590	HACKBERRY	CELT S OCC DENTAL S	5	79	3 -84.58	3.5 RT	YES			YES	2	
59	HACKBERRY	CELT S OCC DENTAL S	2	3	3 -89.59	30.8 RT	YES			YES	0	
592	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -32.54	3. RT	YES			YES	0	
593	HACKBERRY	CELT S OCC DENTAL S	3	28	3 -97.68	43.8 RT	YES			YES	0	
594	SWEETGUM	L QU DAMBAR ST* RAC FLUA	4	6.6	3 +99.5	29.5 RT	YES			YES	6	
595	WATER OAK	QUERCUS N GRA	2	3	32+01.00	26.7 RT				YES	0	
596	HACKBERRY	CELT S OCC DENTAL S	4	50	3 -97.04	24.2 RT				YES	0	
597	MAGNOLIA	MAGNOLIA SPP.	23	662	32+09.23	28.3 RT	YES			YES	8	
598	WATER OAK	QUERCUS N GRA	4	50	32+05.	24. RT				YES	2	
599	BLACKGUM	NYSSA SYLVATA CA VOP	2	3	32+05.39	27.4 RT				YES	0	
600	HACKBERRY	CELT S OCC DENTAL S	2	3	3 -89.53	34.2 RT	YES			YES	0	

NOTES:

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- *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.

REVISIONS DATE DESCRIPTION DATE DESCRIPTION		JUDITH W. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO. TR-14
ROAD NO.	COUNTY		FINANCIAL PROJECT ID		
CR 2192	LEON	413491-1-52-01		TREE SURVEY	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.001, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED
60	BLACKGUM	NYSSA SYLVATA V. V.	2	452	3+49.27	58.3 RT	YES		YES		4	
602	HACKBERRY	CELTIS OCCIDENTALIS	5	79	3+79.08	63.3 RT	YES		YES		2	
603	SWEETGUM	LIGU DAMBAR STRATA FLORA	7	54	3+88.48	67.6 RT	YES					YES
604	SPRUCE PINE	PINUS GLABERA	9	254	3+79.73	75.0 RT	YES					YES
605	WATER OAK	QUERCUS NIGRA	0	34	3+63.65	72. RT	YES		YES		4	
606	WATER OAK	QUERCUS NIGRA	3	28	3+45.20	76.6 RT	YES	YES			0	
607	HACKBERRY	CELTIS OCCIDENTALIS	5	79	3+64.43	82.7 RT	YES					YES
608	HULLY	LLEY SPP.	3	28	3+27.36	88.7 RT	YES					YES
609	OAK (DEAD)	QUERCUS ALBA	27	2240	3+96.26	93.2 RT	DEAD			DEAD	DEAD	
610	HICKORY	CARYA SPP.	2	3	32+0.70	92.2 RT	YES					YES
61	HICKORY	CARYA SPP.	5	79	32+0.23	80.5 RT	YES					YES
612	HICKORY	CARYA SPP.	5	79	32+1.26	76.2 RT	YES					YES
613	SPRUCE PINE	PINUS GLABERA	4	50	3+95.8	83.7 RT	YES					YES
614	HACKBERRY	CELTIS OCCIDENTALIS	2	3	3+8.72	79.8 RT	YES					YES
615	BLACKGUM	NYSSA SYLVATA V. V.	5	707	32+06.94	56.6 RT	YES					YES
616	SPRUCE PINE	PINUS GLABERA	2	3	32+03.53	52. RT	YES					YES
617	HACKBERRY	CELTIS OCCIDENTALIS	6	3	32+5.54	52.7 RT						YES
618	HICKORY	CARYA SPP.	5	79	32+2.98	44.5 RT				YES	2	
619	SWEETGUM	LIGU DAMBAR STRATA FLORA	6	3	32+9.64	28.7 RT			YES	2		
620	SWEETGUM	LIGU DAMBAR STRATA FLORA	3	20	32+9.83	29.6 RT			YES	4		
62	LAUREL	QUERCUS LAURIFOLIA	8	20	32+20.30	23.7 RT			YES	4		
622	HICKORY	CARYA SPP.	4	380	32+28.10	35.7 RT			YES	4		
623	HICKORY	CARYA SPP.	4	3	32+28.75	25.3 RT			YES	2		
624	SPRUCE PINE	PINUS GLABERA	4	50	32+35.36	26.9 RT			YES	2		
625	BA	PERSEA SPP.	3	28	32+1.7	27.8 RT			YES	0		
626	BA	PERSEA SPP.	2	7	32+39.49	31.0 RT			YES	0		
627	BA	PERSEA SPP.	3	28	32+39.79	44.4 RT			YES	0		
628	HICKORY	CARYA SPP.	5	3	32+45.03	34.4 RT			YES	0		
629	LIVE OAK	QUERCUS V. ROYANA	23	662	32+45.82	23.0 RT	YES			YES	8	
630	BLACKGUM	NYSSA SYLVATA V. V.	4	66	32+55.93	24.2 RT			YES	6		
631	LIVE OAK	QUERCUS V. ROYANA	8	0.8	32+94.77	30.0 RT	YES			YES	4	
632	HICKORY	CARYA SPP.	4	50	32+5.86	36.5 RT			YES	2		
633	HICKORY	CARYA SPP.	4	8.6	32+52.62	45.4 RT						YES
634	HICKORY	CARYA SPP.	5	79	32+5.93	19.2 RT						YES
635	HICKORY	CARYA SPP.	4	50	32+40.57	52.5 RT						YES
636	HICKORY	CARYA SPP.	4	50	32+37.92	45.8 RT						YES
637	LAUREL	QUERCUS LAURIFOLIA	2	386	32+36.64	56.5 RT	YES					YES
638	SWEETGUM	LIGU DAMBAR STRATA FLORA	2	20	32+29.38	63.2 RT						YES
639	CHESTNUT OAK	CASTANEA DENTATA	8	0.9	32+24.07	57. RT	YES					YES
640	HOLLY	LLEY SPP.	6	3	32+27.40	76.0 RT						YES
641	HOLLY	LLEY SPP.	4	50	32+26.67	75.5 RT						YES
642	SPRUCE PINE	PINUS GLABERA	3	23	32+25.26	82.2 RT						YES
643	HACKBERRY	CELTIS OCCIDENTALIS	3	28	32+5.78	76.1 RT						YES
644	WATER OAK	QUERCUS NIGRA	2	50	32+5.29	79.5 RT						YES
645	HICKORY	CARYA SPP.	5	79	32+26.53	99.0 RT						YES
646	BLACKGUM	NYSSA SYLVATA V. V.	2	251	32+4.24	37.7 RT						YES
647	HICKORY	CARYA SPP.	4	50	32+30.2	32.9 RT						YES
648	HICKORY	CARYA SPP.	2	3	32+36.03	0.3 RT						YES
649	HOLLY	LLEY SPP.	3	28	32+36.70	98.7 RT						YES
650	HOLLY	LLEY SPP.	5	79	32+39.07	37.4 RT						YES

NOTES:
 * 1 INCH OF TREE DIAMETER AT 5 FEET ABOVE GROUND (DBH) IS EQUAL TO 1 FOOT OF CANOPY RADII FOR THE CALCULATION OF CANOPY AREA (PI * RADIUS SQUARED). THIS NUMBER IS NOT PHYSICALLY MEASURED.
 ** PROTECTED TREES INCLUDE ALL TREES WITHIN A WETLAND AND ALL TREES WITH A DBH OF 18 INCHES OR GREATER.
 *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.

REVISIONS DATE DESCRIPTION DATE DESCRIPTION		JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32305 Office: (850) 386-1253 Fax: (850) 385-8090 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TREE SURVEY	SHEET NO. TR-15
ROAD NO.	COUNTY		FINANCIAL PROJECT ID			
CR 2192	LEON	413491-1-52-01				

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-22.003, F.A.C.

**TABLE 1
TREE INDEX CHART**

TREE TAG NO.	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY AREA * (SQ. FT.) (CPZ)	SURVEY BASELINE STATION	OFFSET (FEET)	PROTECTED TREE **	TREE TRIMMING ***	CUT AT BASE	REMOVED	DEBIT	TREES TO BE PROTECTED		
65	HICKORY	CARYA SPP.	5	79	32+5.86	88.5 RT						YES		
652	HICKORY	CARYA SPP.	6	3	32+35.08	74.2 RT						YES		
653	LIVE OAK	QUERCUS VIRGINIANA	32	327	32+68.6	88.6 RT	YES					YES		
654	HOLLY	LLEX SPP.	4	50	32+63.2	84. RT						YES		
655	HOLLY	LLEX SPP.	2	3	32+63.66	84.0 RT						YES		
656	HICKORY	CARYA SPP.	4	50	32+56.94	95.2 RT						YES		
657	HOLLY	LLEX SPP.	2	3	32+58.38	8.3 RT						YES		
658	HOLLY	LLEX SPP.	4	50	32+79.90	73.9 RT						YES		
659	HICKORY	CARYA SPP.	4	6.6	32+78.7	73.4 RT						YES		
660	HOLLY	LLEX SPP.	6	3	32+8.54	68.6 RT						YES		
661	HICKORY	CARYA SPP.	4	50	33+00.24	56.4 RT						YES		
662	LAUREL	QUERCUS LAURIFOLIA	2	3	33+04.1	56. RT						YES		
663	HICKORY	CARYA SPP.	4	50	33+04.87	53.6 RT						YES		
664	HICKORY	CARYA SPP.	4	50	33+02.02	43.5 RT						YES		
665	HICKORY	CARYA SPP.	3	28	32+94.66	5.6 RT						YES		
666	HICKORY	CARYA SPP.	5	79	32+89.37	50. RT						YES		
667	HICKORY	CARYA SPP.	24	80	32+75.35	5. RT	YES					YES		
668	WATER OAK	QUERCUS NIGRA	4	50	32+73.07	44.8 RT				YES	4			
669	WATER OAK	QUERCUS NIGRA	5	79	32+8.9	47.3 RT						YES		
670	WATER OAK	QUERCUS NIGRA	3	28	32+84.76	35.3 RT						YES		
671	SWEETGUM	LIGUSTRUM STRYRACIFLUA	2	452	32+84.49	29.6 RT	YES							
672	HICKORY	CARYA SPP.	7	54	32+86.87	29.0 RT	YES			YES	4			
673	HICKORY	CARYA SPP.	3	28	32+87.6	26.4 RT	YES			YES	0			
674	HICKORY	CARYA SPP.	2	3	32+78.6	34.5 RT						YES		
675	HICKORY	CARYA SPP.	5	79	32+95.75	28.2 RT						YES		
676	HOLLY	LLEX SPP.	2	3	33+06.02	32.4 RT						YES		
677	SPARKLEBERRY	VACCINIUM ARBOREUM	3	28	33+03.55	33.8 RT						YES		
678	SPARKLEBERRY	VACCINIUM ARBOREUM	2	3	33+3.4	33.5 RT						YES		
679	SPRUCE PINE	PINUS GLABERA		380	33+5.56	29.9 RT						YES		
680	SPARKLEBERRY	VACCINIUM ARBOREUM	2	3	33+8.20	27.7 RT						YES		
681	HOLLY	LLEX SPP.	3	28	33+5.44	23.9 RT						YES		
682	LAUREL	QUERCUS LAURIFOLIA	6	3	33+5.39	5. RT	YES			YES	2			
683	LAUREL	QUERCUS LAURIFOLIA	3	28	33+2.64	6.0 RT	YES			YES	0			
684	SPARKLEBERRY	VACCINIUM ARBOREUM	2	3	32+8.85	20.9 RT	YES			YES	0			
685	HICKORY	CARYA SPP.	2	3	32+62.90	57.5 RT						YES		
686	HICKORY	CARYA SPP.	2	3	32+59.56	50.0 RT						YES		
687	WAX MYRTLE	MYRTICA CERIFERA	2	3	32+5.39	62.6 RT						YES		
688	SHORTLEAF PINE	PINUS ECHINATA		380	32+48.50	66.9 RT						YES		
689	SWEETGUM (DEAD)	LIGUSTRUM STRYRACIFLUA	2	452	32+40.66	8. RT	DEAD				DEAD	DEAD		
690	LIVE OAK	QUERCUS VIRGINIANA	33	342	3+87.27	4.9 LT	YES	YES			6****			
TOTAL NUMBER OF TREES								23	93	244	--	--		
								TOTAL POINTS					852	N/A

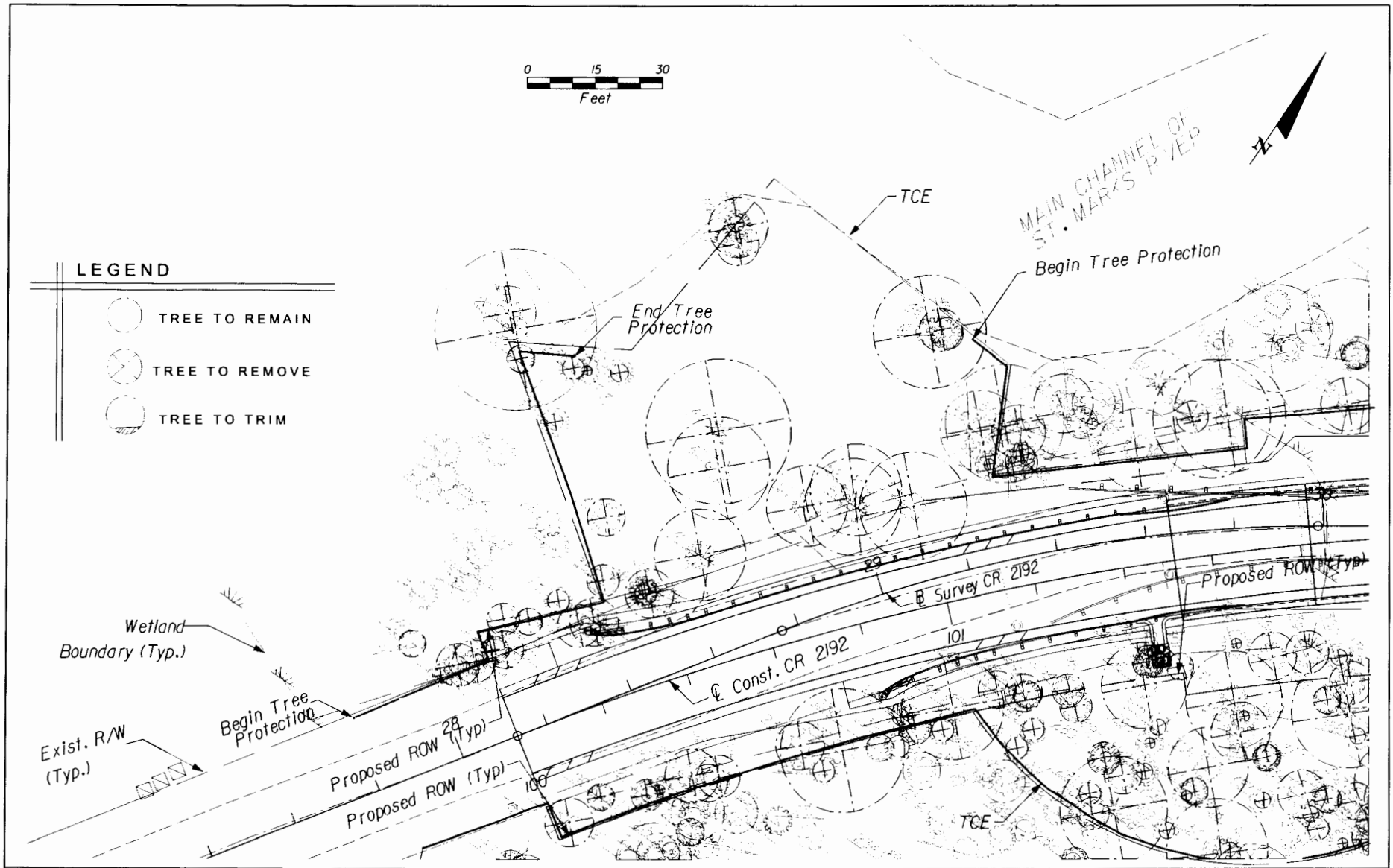
NOTES:

- * 1 INCH OF TREE DIAMETER AT 5 FEET ABOVE GROUND (DBH) IS EQUAL TO 1 FOOT OF CANOPY RADIUS FOR THE CALCULATION OF CANOPY AREA (PI * RADIUS SQUARED). THIS NUMBER IS NOT PHYSICALLY MEASURED.
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- *** TREES WHERE BRANCHES OVERHANG LIMITS OF CLEARING.
- **** TREE IS BEING TRIMMED AND RECEIVING TRUNK PROTECTION AND CONSIDERED A 'TECHNICAL DEBIT' BUT IS NOT BEING REMOVED.

REVISIONS				JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Filra Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. TR-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					CR 2192	LEON	413491-1-52-01	

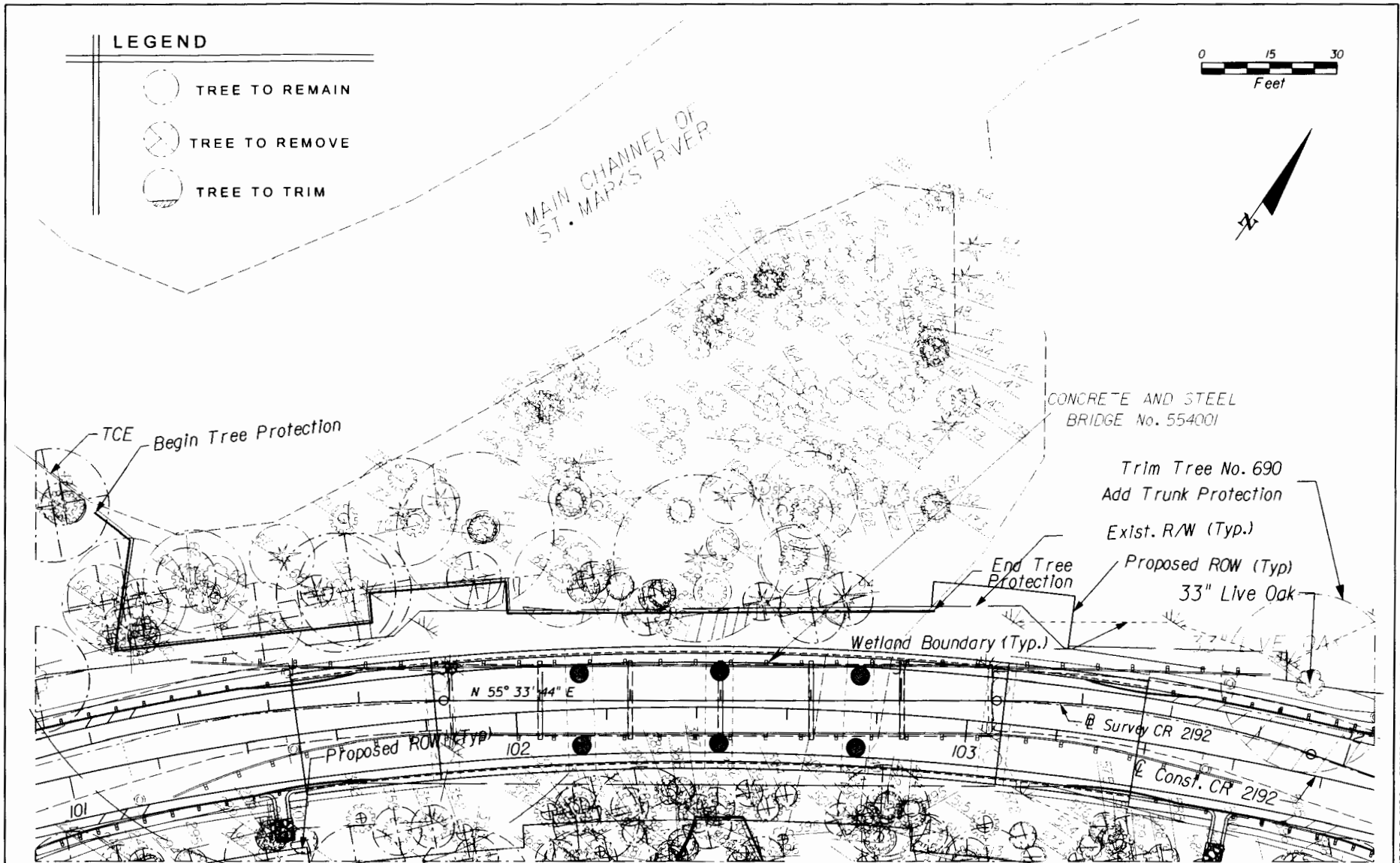
TREE SURVEY

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REVISIONS		REVISIONS		JUDITH M. HARDEY, P.E. Environmental & Geotechnical Specialists, Inc. 3154 E 24th Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TREE SURVEY	SHEET NO. TR-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					CR 2192	LEON	413491-1-52-01	

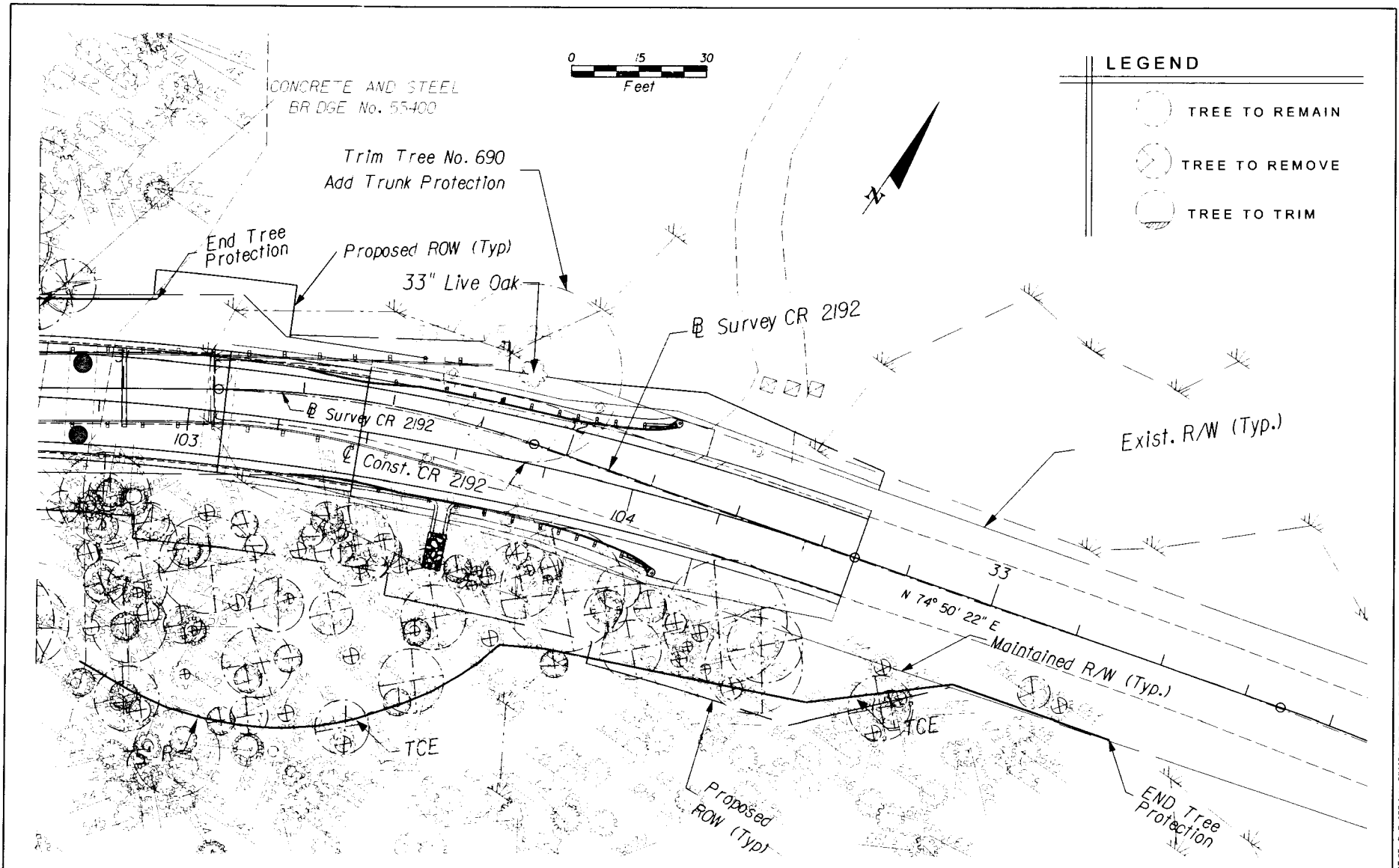
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Page A50 of 85

REVISIONS				JUDITH M. HARDEK, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Elzre Road Tallahassee, Florida 32308 Office: (850) 398-1253 Fax: (850) 385-0050 Certificate of Authorization: 6222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TREE SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT ID		TR-18
				CR 2192	LEON 413491-1-52-01			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

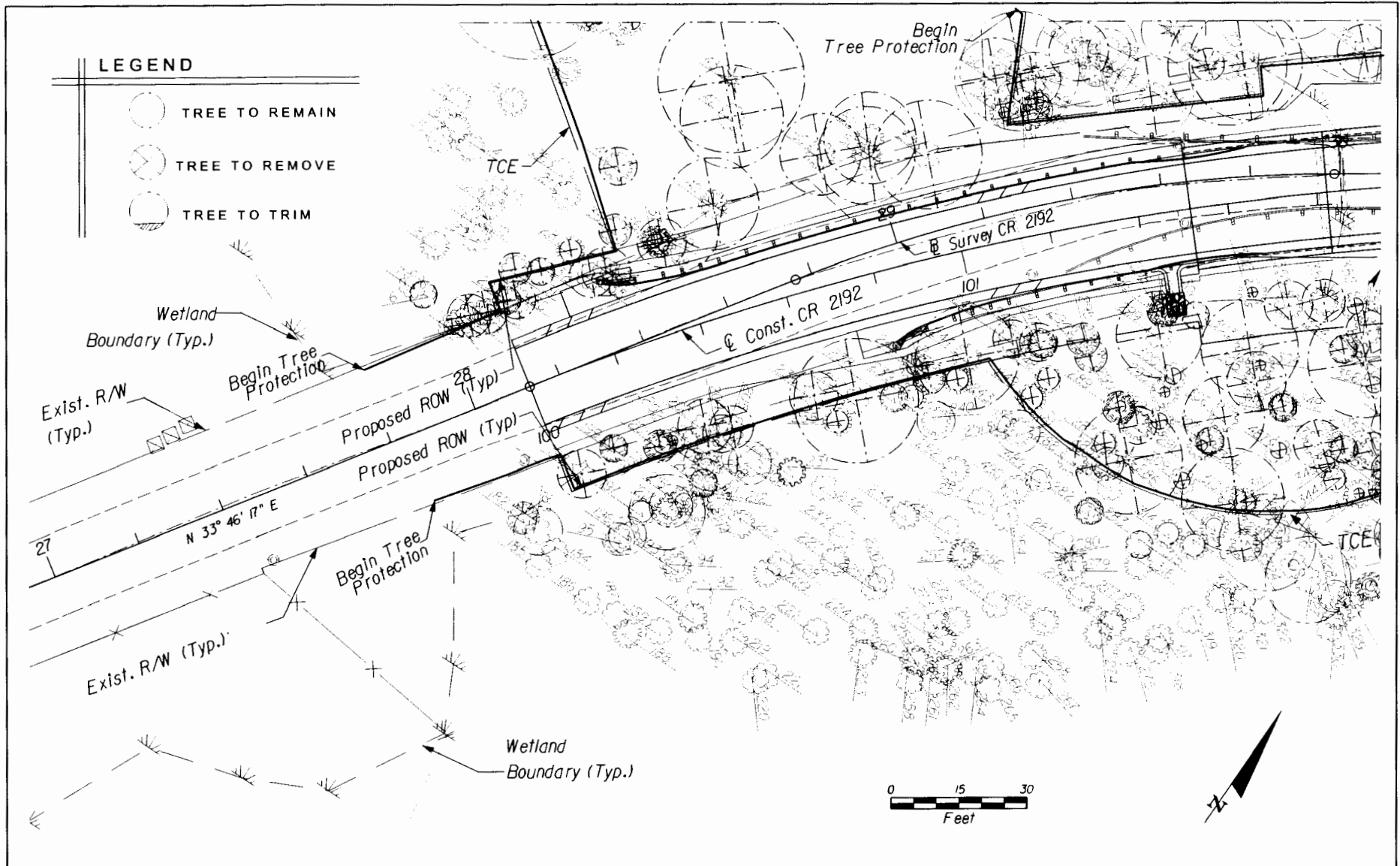
JUDITH M. HAYDEN, P.E. P.E. NO.: 43575
 Environmental & Geotechnical Specialists, Inc.
EGS
 3154 Filiza Road
 Tallahassee, Florida 32308
 Office: (850) 386-1253
 Fax: (850) 386-4050
 Certificate of Authorization: 6222

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR-2192	LEON	413491-1-52-01

TREE SURVEY

SHEET NO.
TR-19

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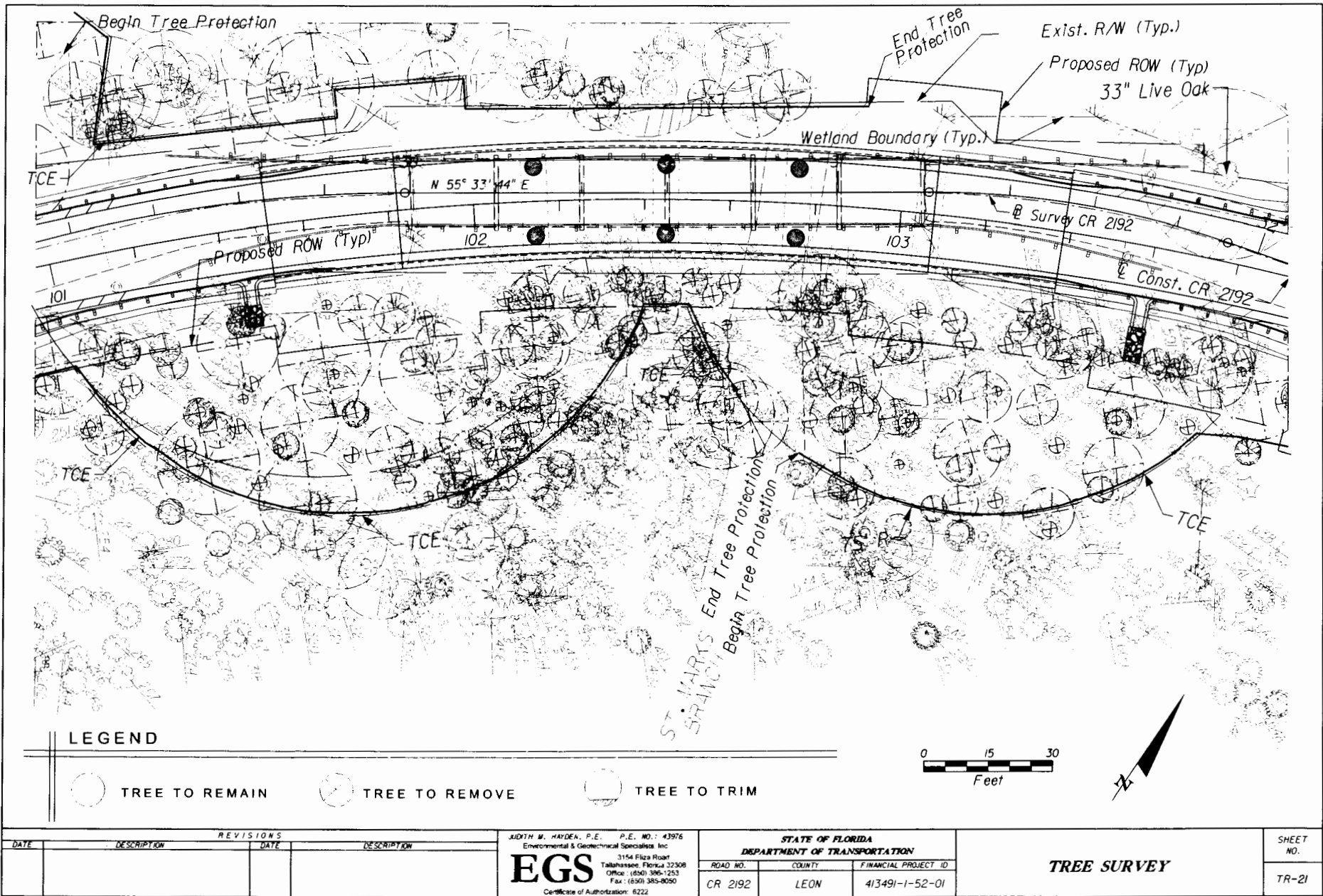
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Page A52 of 85

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

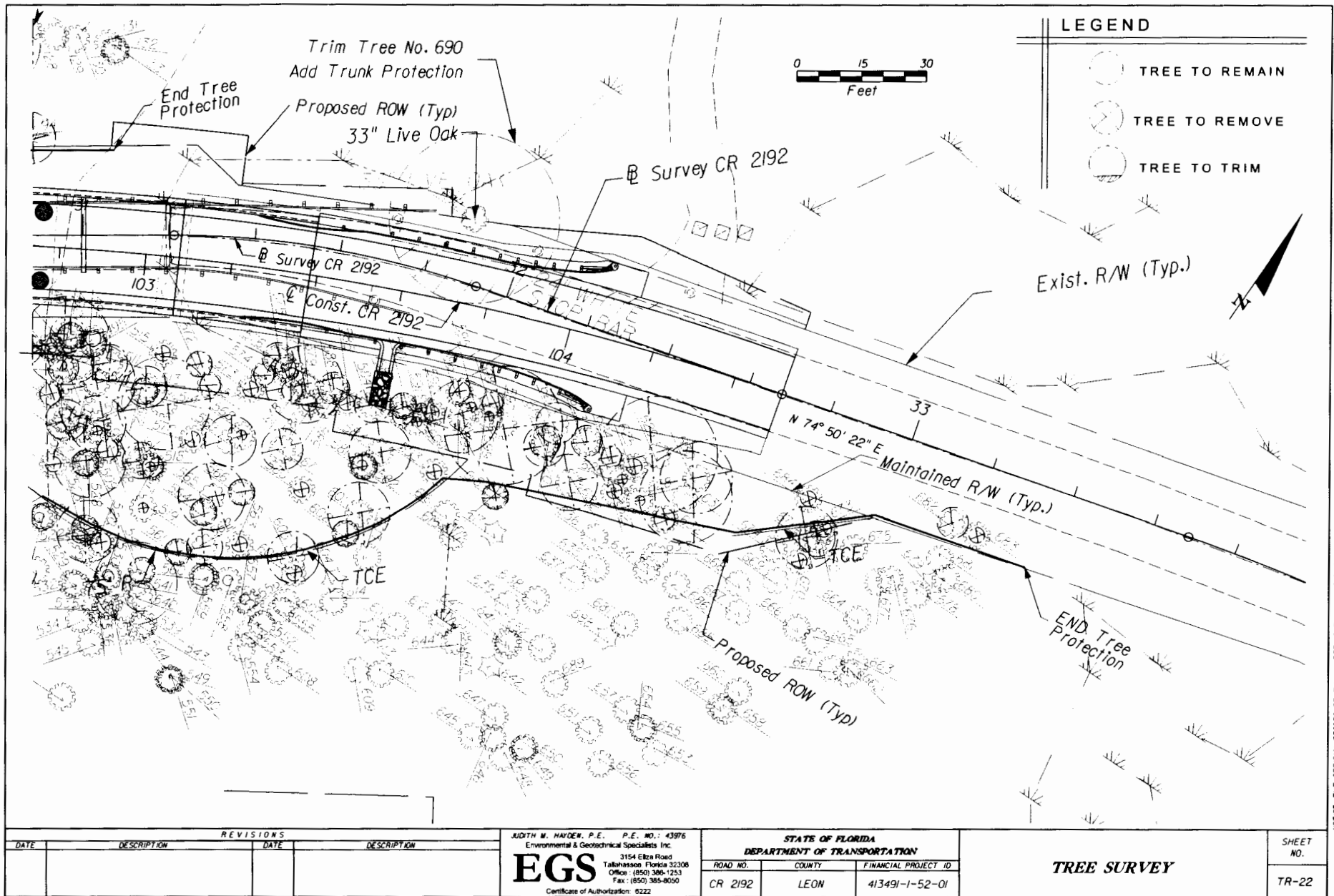
JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TREE SURVEY	SHEET NO. TR-20
ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
CR 2192	LEON	413491-1-52-01			

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REVISIONS		DATE	DESCRIPTION	JUDITH M. HAYDEN, P.E. P.E. NO.: 43976 Environmental & Geotechnical Specialists, Inc. 3154 Plaza Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 8222	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. TR-21
DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CR 2192	LEON	413491-1-52-01	TREE SURVEY	



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REVISIONS	
DATE	DESCRIPTION

JUDITH M. HAYDEN, P.E. P.E. NO.: 43976
Environmental & Geotechnical Specialists, Inc.
EGS
3154 Eliza Road
Tallahassee, Florida 32308
Office: (850) 385-1253
Fax: (850) 385-8050
Certificate of Authorization: 6222

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 2192	LEON	413491-1-52-01

TREE SURVEY

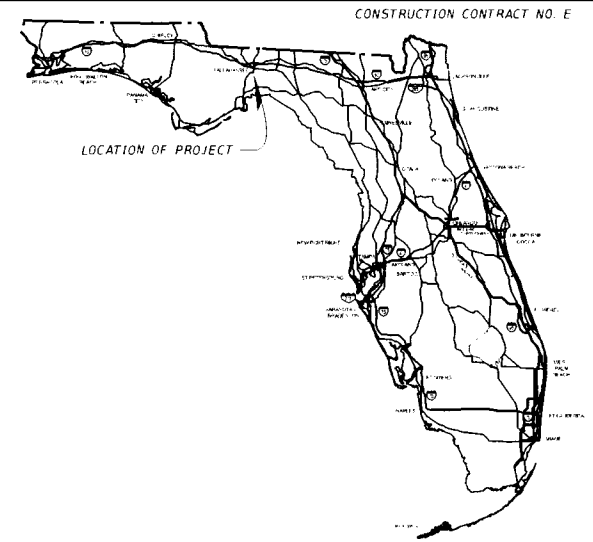
SHEET NO.
TR-22

INDEX OF STRUCTURE PLANS

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B1- 2	GENERAL NOTES (2 OF 2)
B1- 3	PLAN AND ELEVATION
B1- 4	BRIDGE HYDRAULIC RECOMMENDATIONS
B1- 5	REPORT OF CORE BORINGS (1 OF 8)
B1- 6	REPORT OF CORE BORINGS (2 OF 8)
B1- 7	REPORT OF CORE BORINGS (3 OF 8)
B1- 8	REPORT OF CORE BORINGS (4 OF 8)
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B1-21	TYPICAL SECTION
B1-22	FINISH GRADE ELEVATIONS
B1-23	SUPERSTRUCTURE PLAN
B1-24	SUPERSTRUCTURE DETAILS
B1-25	EXPANSION JOINT DETAILS
B1-26	APPROACH SLAB
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B1-29	REINFORCING BAR LIST
B1-30	LOAD RATING SUMMARY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS
FINANCIAL PROJECT ID 413491-1-52-01
LEON COUNTY (55030)
ROAD NO. 2192
STRUCTURE PLANS



STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:

CHARLES F. CRAYCRAFT
FL P.E. NO. 32131
H.W. LOCHNER, INC.
2940 EAST PARK AVENUE,
SUITE 200
TALLAHASSEE, FL 32301
TELEPHONE: (850) 656-9027

PLANS PREPARED BY:
H.W. LOCHNER, INC.
2940 EAST PARK AVENUE,
SUITE 200
TALLAHASSEE, FL 32301
TELEPHONE: (850) 656-9027
CONTRACT NUMBER C-88B1
VENDOR NUMBER VF 36233881101
FBPR CERTIFICATE OF
AUTHORIZATION NO. 894

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

REVISIONS:

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

STRUCTURE PLANS
ENGINEER OF RECORD: CHARLES F. CRAYCRAFT
P.E. NO. 32131

Replace bridge on Natural Bridge Road
over Branch of St. Marks River

FDOT PROJECT MANAGER: DONALD ROGERS, P.E.

FISCAL YEAR	SHEET NO.
14	B-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

GENERAL SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2011 EDITION AND SUPPLEMENTS THERETO, AS AMENDED BY CONTRACT DOCUMENTS.

DESIGN SPECIFICATIONS:

FDOT STRUCTURES MANUAL DATED JANUARY 2011 AND SUBSEQUENT STRUCTURE DESIGN BULLETINS.
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRF) BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION AND ALL SUBSEQUENT INTERIMS.
FDOT PLANS PREPARATION MANUAL DATED JANUARY 2011.

DESIGN METHOD:

ALL ELEMENTS ARE DESIGNED USING THE LOAD RESISTANCE FACTOR DESIGN METHOD (LRFD).

UTILITIES:

NO ALLOWANCE FOR ADDITIONAL UTILITY LOADS HAS BEEN INCLUDED IN THE DESIGN.

DESIGN LOADS:

DEAD LOADS:
UNIT WEIGHT OF REINFORCED CONCRETE: 150 PCF
UNIT WEIGHT OF SOIL: 115 PCF
TRAFFIC RAILING BARRIERS (CORRAL-SHAPE): 460 PLF
FUTURE WEARING SURFACE: 0 PSF

LIVE LOADS:
HL-93

EARTHQUAKE:
NO DETAILED SEISMIC ANALYSIS IS REQUIRED FOR THIS TYPE OF BRIDGE IN FLORIDA ACCORDING TO STRUCTURES DESIGN GUIDELINES SECTION 2.3.1.

TEMPERATURE RANGE BY SUPERSTRUCTURE MATERIAL:

SUPERSTRUCTURE MATERIAL	TEMPERATURE RANGE (DEGREES FAHRENHEIT)			
	MEAN	HIGH	LOW	RANGE
CONCRETE	70	105	35	70

PLAN DIMENSIONS:

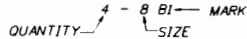
ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED. DECK JOINT OPENINGS ARE GIVEN FOR A MEAN TEMPERATURE OF 70°F.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.

ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS SHOWN TO FACE OF THE CONCRETE.

TYPICAL REINFORCING BARS ARE DESIGNATED THUS:



FOR STANDARD BAR BENDING DETAILS, SEE INDEX 21300.

GENERAL NOTES

CONCRETE:

CLASS	MINIMUM 28 DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE
II	f'c = 3400	CAST-IN-PLACE TRAFFIC RAILING BARRIER
II (BRIDGE DECK)	f'c = 4500	CAST-IN-PLACE SUPERSTRUCTURE (BRIDGE DECK AND APPROACH SLAB)
II	f'c = 3400	CAST-IN-PLACE SUBSTRUCTURE
IV (DRILLED SHAFT)	f'c = 4000	PIPE PILES (FILLED WITH CONCRETE)

ALL CONCRETE SHALL CONFORM WITH SECTION 346 OF THE STANDARD SPECIFICATIONS.

ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.

CONCRETE COVERS SHOWN IN THE PLANS DO NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

SUPERSTRUCTURE (CAST-IN-PLACE):
ALL TOP RIDING SURFACES WITH FORM LINERS INCLUDING APPROACH SLABS ----- 3 1/2"
ALL EXTERNAL AND INTERNAL SURFACES (EXCEPT RIDING SURFACE) ----- 2"
SUBSTRUCTURE (CAST-IN-PLACE):
EXTERNAL SURFACES CAST AGAINST EARTH AND SURFACES IN WATER ----- 4"
EXTERNAL SURFACES (FORMED) ----- 3"
INTERNAL SURFACES (FORMED) ----- 3"

STEEL PILING

ENSURE STEEL PILING CONFORMS TO SECTIONS 455 AND 962 OF THE STANDARD SPECIFICATIONS.

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE = SLIGHTLY AGGRESSIVE FOR CONCRETE
SUBSTRUCTURE = MODERATELY AGGRESSIVE FOR STEEL
SUPERSTRUCTURE = SLIGHTLY AGGRESSIVE FOR CONCRETE/STEEL

SCREEDING DECK SLAB:

SCREEDING THE RIDING SURFACE OF THE BRIDGE DECK AND APPROACH SLABS IS NOT ALLOWED TO ACHIEVE THE FINISH GRADE ELEVATIONS DUE TO THE USE OF AESTHETIC DECK FORMLINERS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO DECK SELF WEIGHT, DECK CASTING SEQUENCE, DECK FORMING SYSTEMS, CONSTRUCTION LOADS, OVERLAYS AND TEMPORARY SHORING, ETC. AS REQUIRED.

JOINTS:

SEE STANDARD INDEX 21110 FOR DETAILS.

MAINTENANCE OF TRAFFIC:

SEE THE ROADWAY PLANS FOR MAINTENANCE OF TRAFFIC.

TRAFFIC RAILING BARRIER

SEE STANDARD INDEX 424 FOR DETAILS.

AESTHETIC DECK FORMLINERS

AESTHETIC FORMLINERS WITH A MAXIMUM DEPTH OF 1" SHALL BE USED TO FORM THE TOP SURFACE OF THE DECK AND APPROACH SLABS TO MIMIC A WOODEN DECK. THE WIDTH OF THE "WOODEN" PLANK PATTERN SHALL BE 2 1/2" MINIMUM TO 6" MAXIMUM. CONTRACTOR SHALL SUBMIT FORMLINER SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.

SIGNING AND SIGNALIZATION:

SEE THE SIGNING AND SIGNALIZATION PLANS FOR DETAILS.

PHASING OF WORK:

CONSTRUCTION PHASING AND PROGRESSION OF WORK SHALL CONFORM WITH THE MOT PLANS LOCATED IN THE ROADWAY PLANS SET.

ELEVATIONS:

ELEVATIONS ARE IN ACCORDANCE TO THE NATIONAL GEODETIC VERTICAL DATUM NAVD 88.

BRIDGE NAME / NUMBER:

THE BRIDGE NAME ON THE TRAFFIC RAILING IS NOT REQUIRED. THE CONTRACTOR SHALL PLACE ONLY THE BRIDGE NUMBER AND DATE IN ACCORDANCE WITH THE TRAFFIC RAILING DESIGN STANDARDS.

UTILITY CONDUIT:

SEE STANDARD INDEX 21210. USE ONE 4-INCH PVC CONDUIT PER RAILING INSTEAD OF TWO 2" PVC CONDUITS. USE EXPANSION FITTINGS AT THE BRIDGE RAILING JOINTS. USE TYPE B PULL BOXES. SEE SHEET B1-21 FOR CONDUIT LOCATIONS.

Bridge No. 554153

REVISIONS						LOCHNER 2940 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32301 PMPR CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 22131	DRAWN BY: BCR 05-11 CHECKED BY: EM 05-11 DESIGNED BY: BCR 05-11 CHECKED BY: JTE 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 2192	LEON	#13491-1-52-01	PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	SHEET NO. B1-1		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

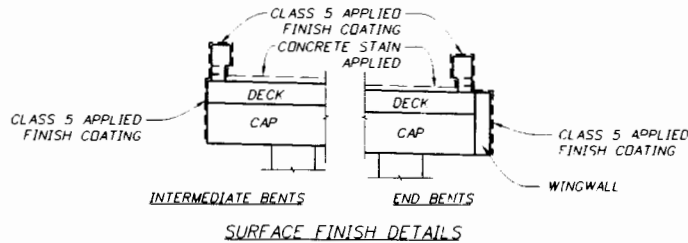
GENERAL NOTES

APPLIED FINISH COATING:

APPLY A CLASS 5 FINISH COATING TO ALL EXPOSED SURFACES (TOP, INSIDE, AND OUTSIDE) OF END BENT WING WALLS, TRAFFIC BARRIERS, DECK SLAB COPING.
APPLY A CONCRETE STAIN TO THE DECK SURFACE AND APPROACH SLABS.

THE FINISH AND STAIN COLORS WILL BE AS FOLLOWS:

- DECK FEDERAL COLOR STANDARD NO. 595B, SHADE NO. 30219
- RAILING FEDERAL COLOR STANDARD NO. 595B, SHADE NO. 30070



BID ITEM NOTES:

FOR SUMMARY OF BRIDGE PAY ITEMS SEE ROADWAY PLANS.

FOR TRAFFIC CONTROL BID ITEM NOTES, SEE ROADWAY PLANS.

PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.

THE COST OF ALL LABOR AND MATERIAL REQUIRED FOR THE INSTALLATION OF ROOFING PAPER AND PREMOLDED EXPANSION MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR PAY ITEM NO. 400-2-4, CLASS II CONCRETE (SUPERSTRUCTURE).

PAYMENT FOR REMOVAL AND DISPOSAL OF EXISTING BRIDGE NO. 554001 (1927 SF) SHALL BE PAID FOR UNDER ITEM NO. 110-3. BID ITEM NO. 110-3 SHALL INCLUDE REMOVAL OF THE ENTIRE SUPERSTRUCTURE, END BENTS, WINGWALLS, INTERMEDIATE BENTS AND APPROACH SLABS AND DELIVERY OF THE EXISTING BRIDGE CONCRETE DEBRIS TO THE SHELTER ROAD PIT.

COORDINATE THE DISPOSAL OF THE EXISTING BRIDGE CONCRETE DEBRIS WITH:

MIDWAY OPERATIONS CENTER
GREG OUZTS, PE
17 COMMERCE BLVD.
MIDWAY, FL 32343
(850) 922-7900

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DELIVER THE EXISTING BRIDGE CONCRETE DEBRIS TO THE SHELTER ROAD PIT.

THE COST OF ALL WORK ASSOCIATED WITH THE AESTHETIC DECK FORMLINERS, CONCRETE FINISH, AND STAIN IS TO BE INCLUDED IN PAY ITEM 0400-2-4, CONCRETE CLASS II, SUPERSTRUCTURE AND PAY ITEM 0400-2-10 CONCRETE CLASS II, APPROACH SLABS.

THE COST OF ALL WORK ASSOCIATED WITH THE 4-INCH PVC CONDUIT IS TO BE INCLUDED IN PAY ITEM 0521-5-6, CONCRETE TRAFFIC RAILING-BRIDGE, CORRAL W/CURB.

THE COST OF ALL WORK ASSOCIATED WITH THE CONCRETE, FLOWABLE FILL, AND TIP PROTECTION USED IN THE STEEL PIPE PILES IS TO BE INCLUDED IN PAY ITEMS 0455-35-22, STEEL PILING, 24-INCH DIAMETER PIPE AND 0455-144-22, TEST PILES-STEEL, 24-INCH DIAMETER PIPE.

THE COST OF ALL WORK ASSOCIATED WITH COATING THE STEEL PIPE PILES IS TO BE INCLUDED IN PAY ITEMS 0455-35-22, STEEL PILING, 24-INCH DIAMETER PIPE AND 0455-144-22, TEST PILES-STEEL, 24-INCH DIAMETER PIPE.

ABBREVIATIONS

- BOTT BOTTOM
- CJ CONSTRUCTION JOINT
- CLR CLEARANCE
- CW CHEEK WALL
- CZ CLEAR ZONE
- EF EACH FACE
- FF FAR FACE
- FFBW FRONT FACE BACKWALL
- NF NEAR FACE
- UND UNLESS NOTED OTHERWISE
- W/ WITH

REMOVAL OF EXISTING STRUCTURE

SEE INDIVIDUAL BRIDGE PLAN SHEETS FOR LIMITS. EXISTING BRIDGE NO. 554001 CONTAINS LEAD BASED PAINT. TCLP TESTING OF THE EXISTING PAINT FOUND THAT THE LEAD LEVELS TO BE ABOVE 5 mg/L. AS A RESULT, THE PAINT AND ASSOCIATED MATERIALS MUST BE DISPOSED OF AS HAZARDOUS WASTE. A COPY OF THE TCLP TESTING FINDINGS CAN BE OBTAINED FROM DISTRICT CONTAMINATION IMPACTS COORDINATOR (DIC) ALAN HAGANS (850) 415-9511 AT LEAST 30 DAYS PRIOR TO THE REMOVAL OF THE STRUCTURE. THE CONTRACTOR SHALL SUBMIT NESHAP (NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS) NOTIFICATION TO THE APPROPRIATE REGULATORY AUTHORITY ACCOMPANIED BY ANY NECESSARY FORMS, REPORTS AND FEES. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND OTHER GOVERNING AUTHORITIES WHEN HANDLING, REMOVING AND DISPOSING OF HAZARDOUS MATERIALS. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED WITH ITEM NO. 110-3.

UTILITY/AGENCY OWNERS		
COMPANY	CONTACT	TELEPHONE NUMBER
EMBARO (PHONE AND FIBER OPTIC)	CENTRAL LOCATING SERVICE	(800) 778-9140
TALQUIN ELECTRIC CO-OP, INC.	THOMAS TALLOCK	(850) 562-2119
FDOT UTILITY COORDINATOR	TRACI ADKISON	(850) 575-1800

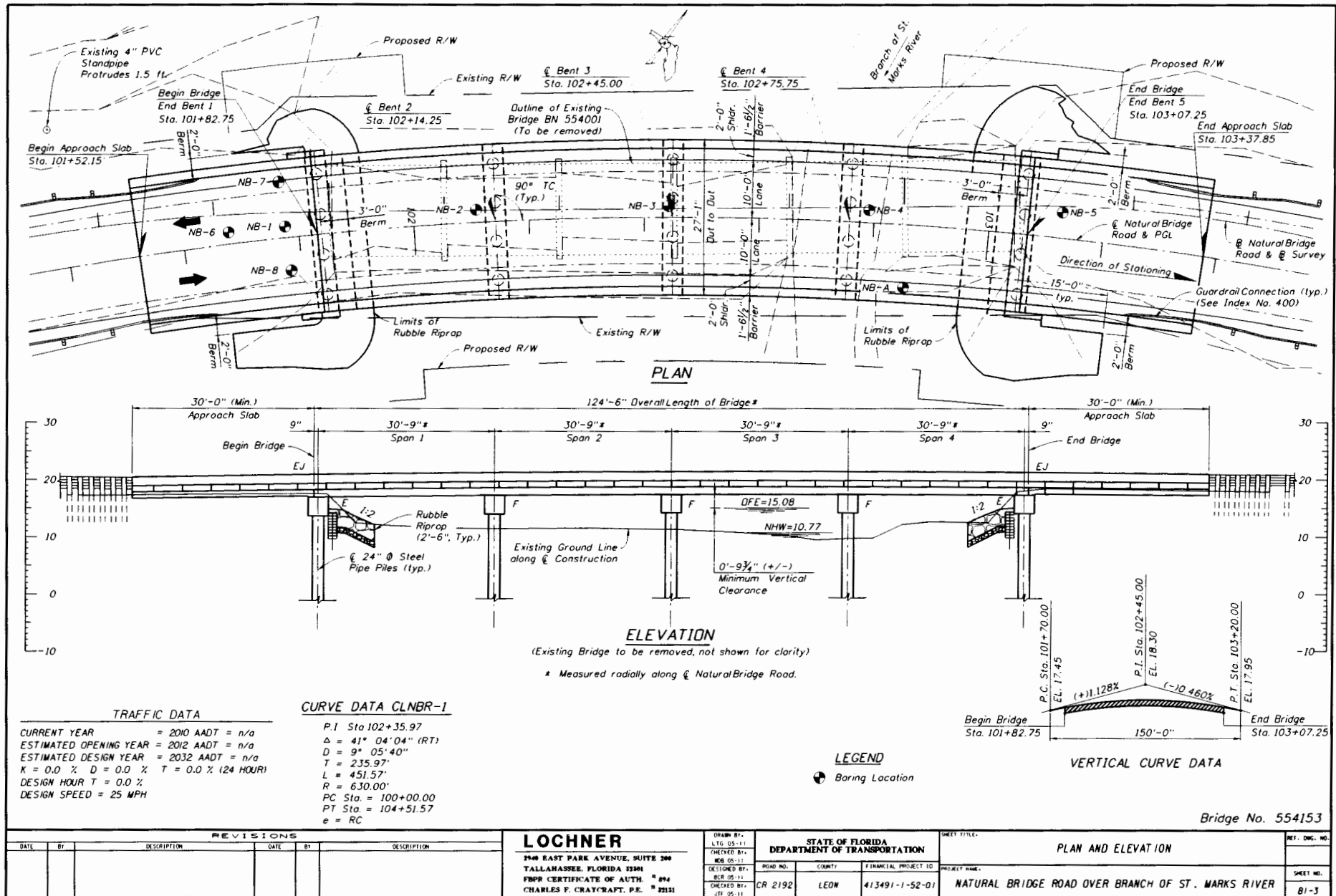
UTILITIES:

THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. SEE UTILITY PLANS FOR THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION. SEE UTILITY PLANS TO DETERMINE IF UTILITY IS TO REMAIN OR BE REMOVED.

Bridge No. 554153

REVISIONS				LOCHNER 2540 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPMR CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 32151	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	GENERAL NOTES		NET. DIM. NO.	
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION		(2 OF 2)
					ROAD NO. CR 2192	COUNTY LEON	FINANCIAL PROJECT ID 413491-1-52-01	PROJECT NAME NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	SHEET NO. B1-2

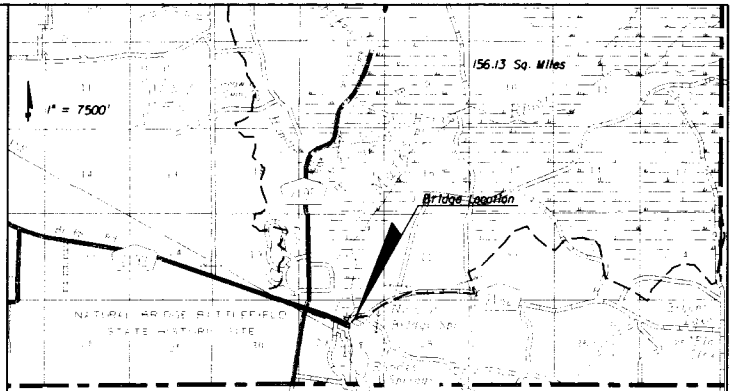
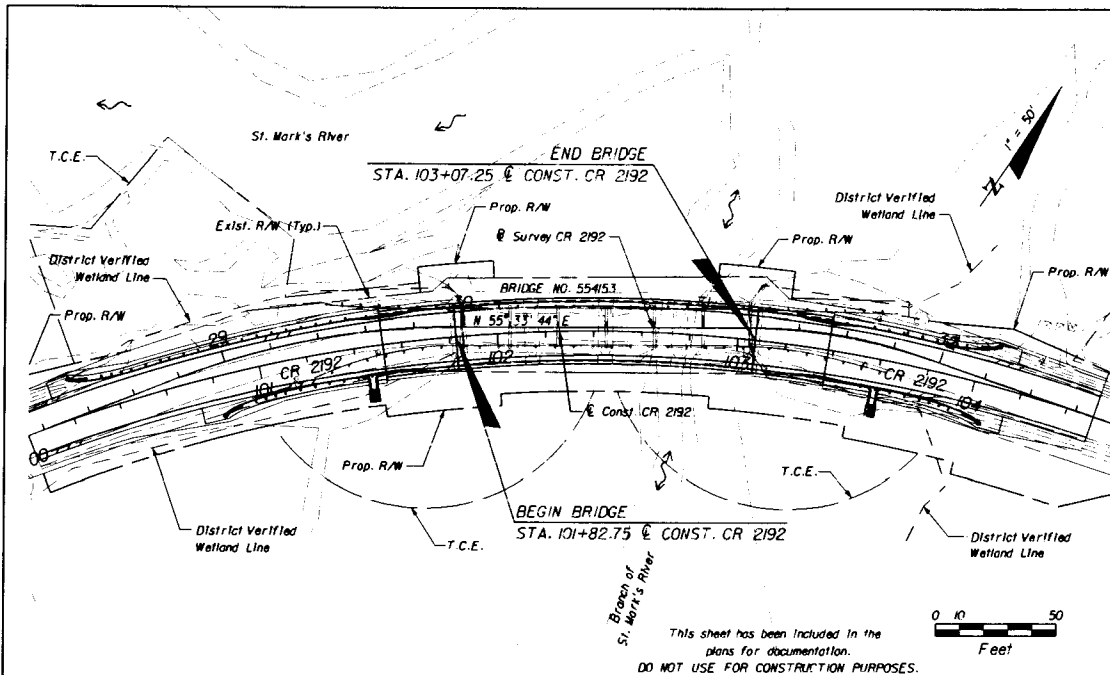
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REVISIONS				DATE		BY		DESCRIPTION	

LOCHNER 2540 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 894 CHARLES F. CRAYCRAFT, P.E. # 32151				DRAWN BY: LTG 05-11 CHECKED BY: RBG 05-11 DESIGNED BY: BCR 05-11 CHECKED BY: STE 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01	SHEET TITLE: PLAN AND ELEVATION PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER DATE: 12/20/2011 10:04:06 AM H:\Projects\11M\3509\434915201\11cr1\B1P+Elev01.dwg	REF. DWG. NO. SHEET NO. B1-3
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(REFERENCE)	(1)	(2)	(3)	(4)	PROPOSED STRUCTURE
FOUNDATION	12" sq. concrete piles				24" steel pipe piles
OVERALL LENGTH	12.00 ft.				124.50 ft.
SPAN LENGTH	20.50 ft.				30.75 ft.
TYPE CONSTRUCTION	stone				concrete/steel
AREA OF OPENING @ D.F.	213.50 sq. ft.				157.60 sq. ft.
BRIDGE WIDTH	15.83 ft.				27.08 ft.
ELEV. LOW MEMBER	15.97 ft.				15.89 ft.

HYDRAULIC DESIGN DATA

NOTE: The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
 Design Flood: Utilized to assure a desired level of hydraulic performance.
 Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency).
 Overlapping Flood: Causes flow over the highway, over a watershed divide, or through emergency relief structures.
 Greatest Flood: The most severe that can be predicted where overlapping is not practicable.

WATER SURFACE ELEVATIONS:		N.W.W. (Non-Tidal)	10.77	N.W.W. (Tidal)	
CONTROL (Non-Tidal)				N.W.W. (Tidal)	
FLOOD DATA:					
STAGE ELEV. (ft)	MAX. EVENT OF RECORD	DESIGN FLOOD	BASE FLOOD	OVERTOPPING or GREATEST FLOOD	
	16.39	15.08	15.67		
DISCHARGE (cfs)	3500	2300	3050		
AVERAGE VELOCITY (ft/s)	1.70	1.07	1.12		
EXCEEDANCE PROB. (%)	0.50	2	1		
FREQUENCY (yr.)	200	50	100		
SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:					
PIER INFORMATION		LONG TERM SCOUR ELEV.		TOTAL SCOUR ELEVATION	
NUMBERS	SIZE AND TYPE	WORST CASE < 100 yr. FREQ. (yr.)		WORST CASE < 500 yr. FREQ. (yr.)	
3	24" steel pipe piles	0		7.0	

HYDRAULIC RECOMMENDATIONS

- BEGIN BRIDGE STATION: 101+82.75, END BRIDGE STATION: 103+07.25, SKEW ANGLE: _____
- CLEARANCE PROVIDED: NAV. HORIZ. N/A, VERT. N/A, ABOVE EL. _____, DRIFT: HORIZ. _____, VERT. 0.81, ABOVE EL. 15.08
- MINIMUM CLEARANCE: NAV. HORIZ. N/A, VERT. N/A, ABOVE EL. _____, DRIFT: HORIZ. _____, VERT. 0.81, ABOVE EL. 15.08
- ABUTMENTS: _____

RUBBLE GRADE: _____, SLOPE: _____

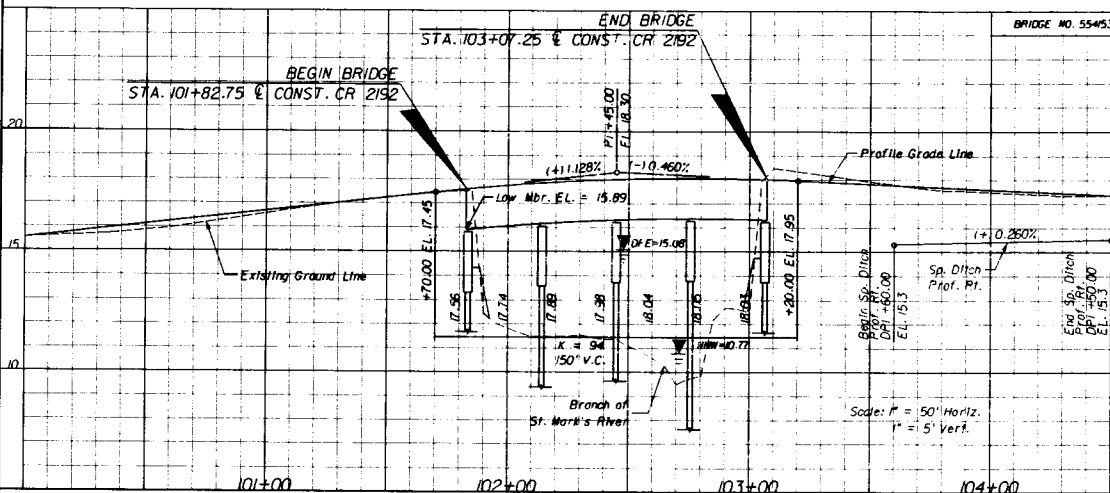
BURIED OR NON-BURIED HORIZ. TOE: _____, N/A, _____, N/A

TIDE HORIZ. DISTANCE: _____, 0, _____, 0

LIMIT OF PROTECTION: _____

5. DECK DRAINAGE: *See road is contained in shoulder. Runoff captured off bridge ends.*

REMARKS: _____



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

LOCHNER
 2940 EAST PARK AVENUE, SUITE 200
 TALLAHASSEE, FLORIDA 32301
 FBPR CERTIFICATE OF AUTH. # 494
 NATALIE BETZ ZIERDEN, P.E. # 54672

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 CR 2192 LEON 413491-1-52-01

BRIDGE HYDRAULIC RECOMMENDATIONS

SHEET NO.
 BI-4

LEGEND

LEVEL OF WATER AT TIME OF DRILLING ∇

LABORATORY TESTING RESULTS

CASING \square

WATER CONTENT -200 SIEVE
PLASTICITY INDEX
LIQUID LIMIT
ORGANIC CONTENT
FLUID LOSS (PERCENT LOSS) \leftarrow (X)

RECOVERY IS THE PERCENT OF CORE RECOVERED BASED ON TOTAL CORE RUN
ROD IS THE ROCK QUALITY DESIGNATION
CORING PRESSURE IS THE HYDRAULIC DRILLING PRESSURE APPLIED TO THE CORE BIT
CORING TIME IS THE TIME REQUIRED TO CORE 5 FEET AT THE GIVEN CORING PRESSURE
(SP-SM) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL

FINE SAND (SP-SM)

SILTY FINE SAND (SM)

CLAYEY FINE TO CLAYEY SAND (SC)

SANDY SILT (ML)

HIGHLY ORGANIC SILT/CLAY (OL/OH)

HIGHLY WEATHERED TO WEATHERED LIMESTONE

LIMESTONE

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: MODERATELY AGGRESSIVE (pH 6.1)
SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

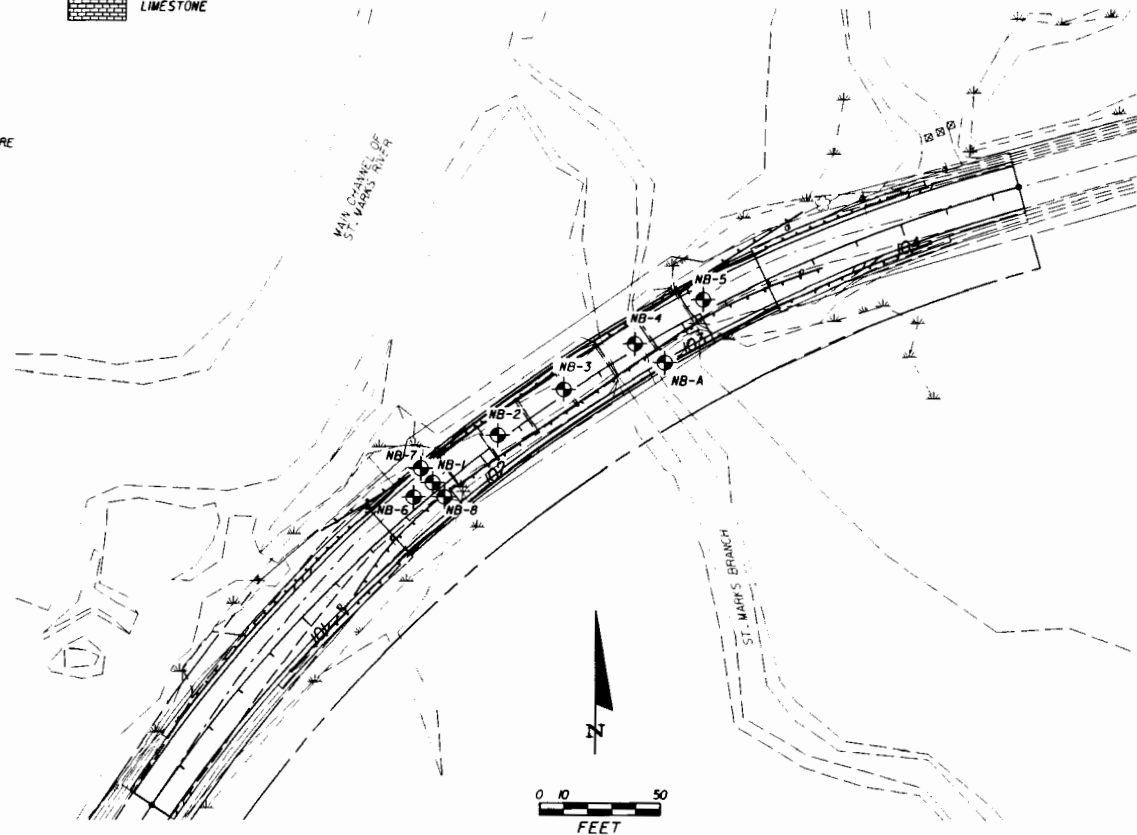
NOTES

- Numbers left of borings indicate standard penetration test (SPT) N-values for 12 in. penetration (unless otherwise noted)
- Water elevations shown are the water elevations encountered. Fluctuations in the elevation of water should be expected.
- Soil descriptions, test data, and standard penetration values shown are for the soil borings only and may not apply to any other locations except of the location of the soil borings. Extrapolation of the soil boring data to other locations is the sole responsibility of the person performing the extrapolation.

SPLIT-SPOON: INSIDE DIAMETER: 1.375 in.
OUTSIDE DIAMETER: 2.0 in.
AVG. HAMMER DROP: 30.0 in.
HAMMER WEIGHT: 140 lbs.

AUTOMATIC HAMMER

Granular Materials	SPT (blows/12 in.)	Silts and Clays Consistency	SPT (blows/12 in.)
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3 - 8	Soft	1 - 3
Medium Dense	8 - 24	Firm	3 - 6
Dense	24 - 40	Stiff	6 - 12
Very Dense	Greater than 40	Very Stiff	12 - 24
		Hard	Greater than 24



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DERWOOD SHEPPARD, P.E. P.E. NO.: 69228
Environmental & Geotechnical Specialists, Inc.
EGS
3154 Eliza Road
Tallahassee, Florida 32308
Office: (850) 386-7253
Fax: (850) 386-8060
Certificate of Authorization: 6222

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.: COUNTY: FINANCIAL PROJECT ID: PROJECT NAME:
LEON 413491-1-52-01

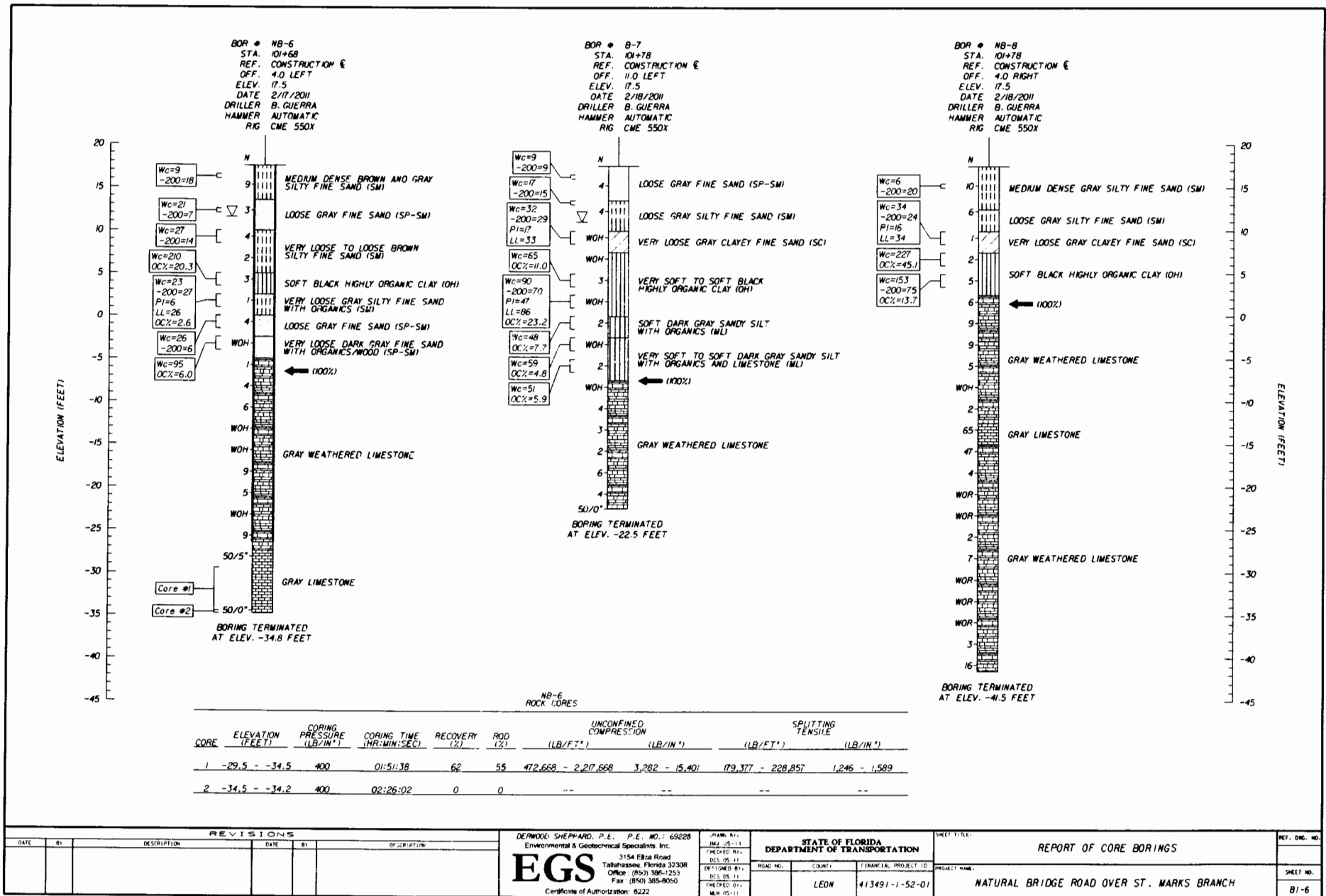
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CHECKED BY: DCS 05-11
DATE: JUN 05-11

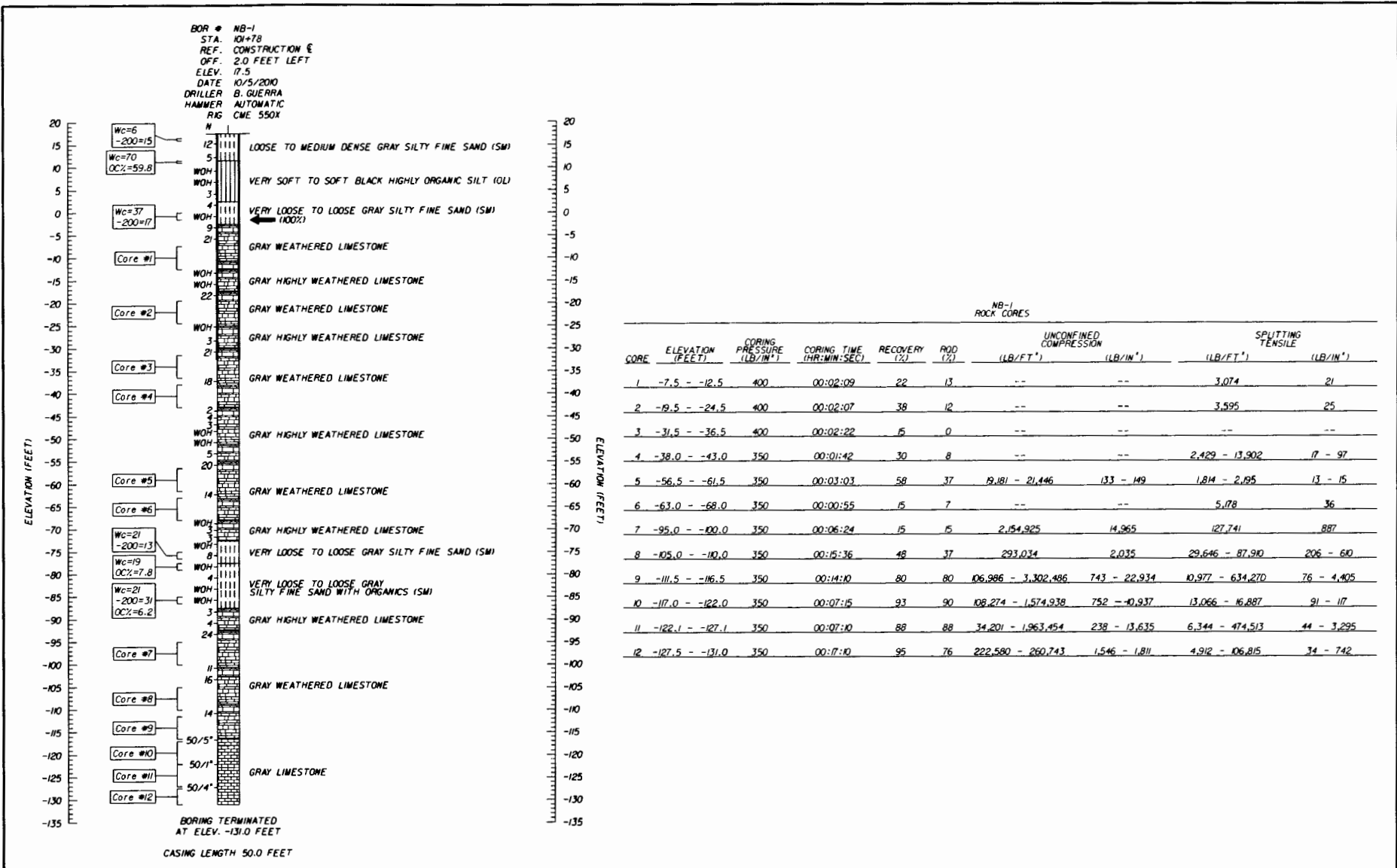
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NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH

REF. DWG. NO.:
SHEET NO.: **B1-5**

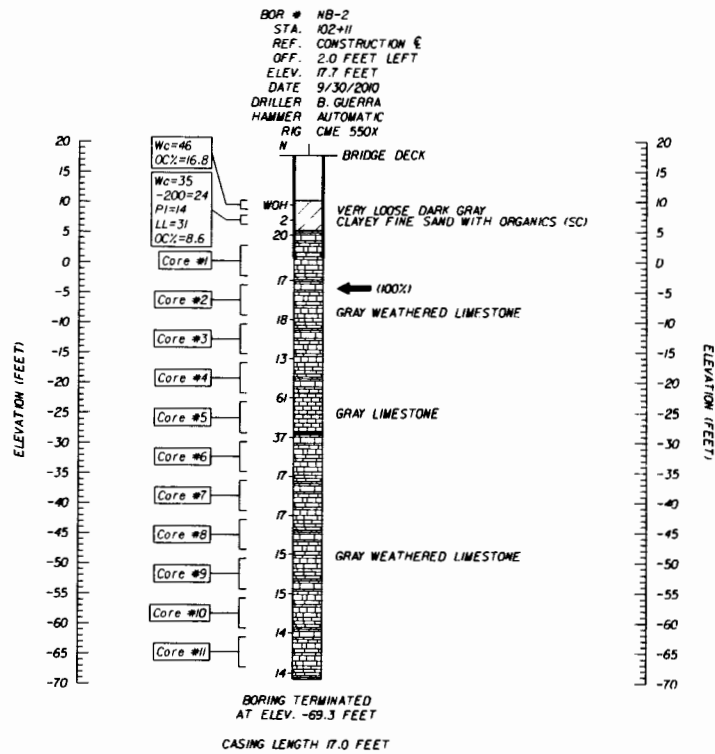
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Page A62 of 85

REVISIONS						DERWOOD SHEPPARD, P.E. P.E. NO.: 69228 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 386-1253 Fax: (850) 385-8050 Certificate of Authorization: 6222	DRAWN BY: JMJ 05-11 CHECKED BY: DLS 05-11 DESIGNED BY: DLS 05-11 CHECKED BY: MLH 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH	81-7		



NB-2
ROCK CORES

CORE	ELEVATION (FEET)	CORING PRESSURE (LB/IN ²)	CORING TIME (HR:MIN:SEC)	RECOVERY (%)	ROD (%)	UNCONFINED COMPRESSION		SPLITTING TENSILE	
						(LB/FT ²)	(LB/IN ²)	(LB/FT ²)	(LB/IN ²)
1	2.7 - -2.3	400	00:04:02	55	42	48,841 - 81,309	131 - 565	1,544 - 2,293	11 - 16
2	-3.8 - -8.8	400	00:04:09	87	78	22,261 - 41,755	155 - 290	1,405 - 4,263	8 - 30
3	-10.3 - -15.3	400	00:06:57	25	0	--	--	--	--
4	-15.8 - -21.8	400	00:04:56	100	100	13,432 - 25,856	93 - 180	2,485 - 3,173	17 - 22
5	-23.3 - -28.3	400	00:03:36	48	42	36,855 - 83,422	256 - 579	7,468 - 21,024	52 - 146
6	-29.8 - -34.8	400	00:03:26	73	70	10,915 - 22,277	76 - 155	1,136 - 1,531	8 - 11
7	-36.3 - -41.3	400	00:04:40	50	38	13,980	97	1,598 - 2,504	11 - 17
8	-42.8 - -47.8	400	00:03:00	80	62	23,157 - 24,869	161 - 173	1,573	11
9	-49.3 - -54.3	400	00:03:22	80	58	--	--	1,802 - 25,570	13 - 178
10	-55.8 - -60.8	400	00:03:37	95	95	38,414 - 42,835	267 - 297	3,083 - 3,361	21 - 23
11	-62.3 - -67.3	400	00:02:50	68	68	40,152 - 43,539	279 - 302	3,299 - 3,368	23

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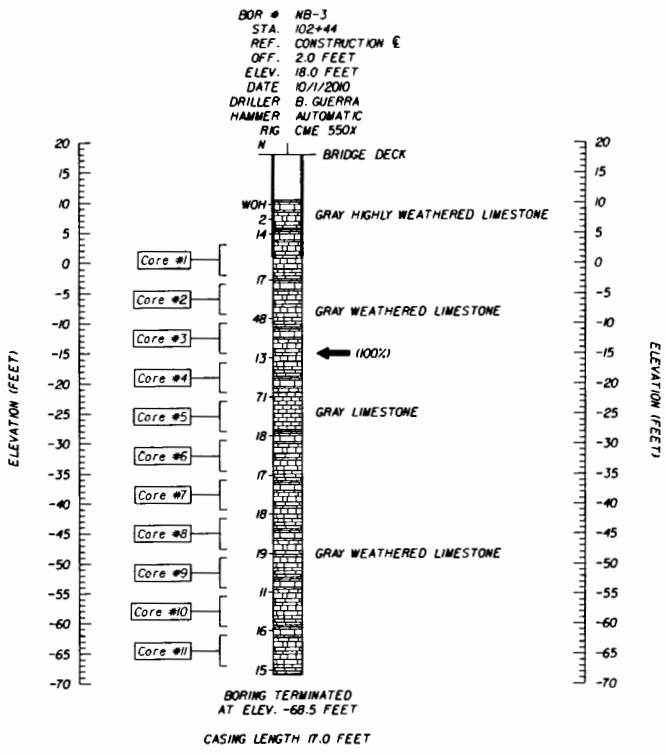
REVISIONS				DEANWOOD SHEPPARD, P.E. P.E. NO.: 69,128 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (904) 386-1293 Fax: (904) 385-8050 Certificate of Authorization: 6222	DRAWN BY: JMJ 05-11 CHECKED BY: DCS 05-11 DESIGNED BY: DCS 05-11 CHECKED BY: MHN 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						LEON		413491-1-52-01	NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH	B1-8

10/25/11

12/20/2010

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NB-3
ROCK CORES

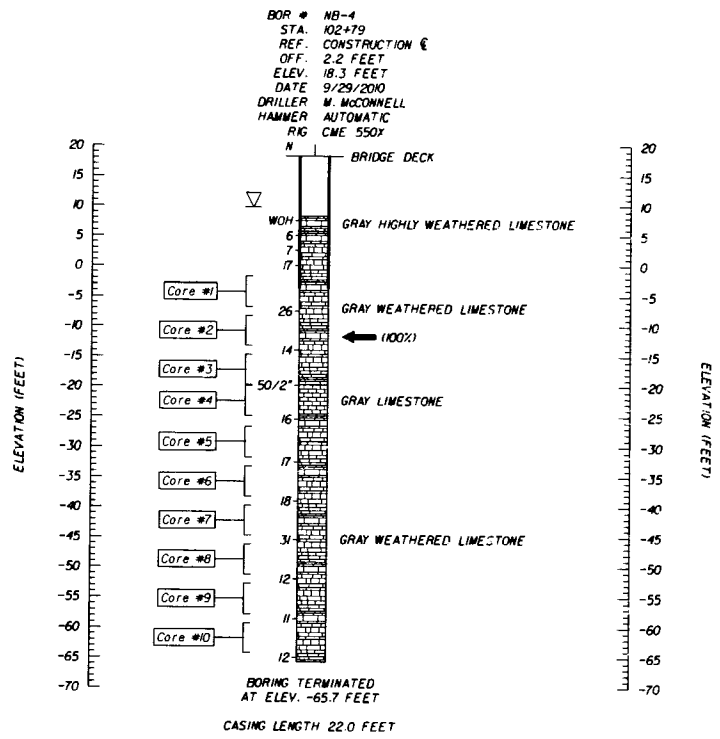
CORE	ELEVATION (FEET)	CORING PRESSURE (LB./IN. ²)	CORING TIME (HR:MIN:SEC)	RECOVERY (%)	ROD (I.D.)	UNCONFINED COMPRESSION (LB./FT. ²)	(LB./IN. ²)	SPLITTING TENSILE (LB./FT. ²)	(LB./IN. ²)
1	3.0 - -2.0	400	00:03:59	95	83	21,529 - 29,779	150 - 207	2,355 - 4,910	16 - 34
2	-3.5 - -8.5	400	00:04:00	95	93	19,712 - 54,694	137 - 380	5,426 - 16,681	38 - 116
3	-10.0 - -15.0	400	00:04:42	88	75	30,903 - 30,994	215	2,391 - 8,733	17 - 61
4	-16.5 - -21.5	400	00:04:20	65	53	10,535 - 24,409	73 - 170	25,641 - 36,248	178 - 252
5	-23.0 - -28.0	400	00:03:51	100	77	19,340	134	8,573 - 28,844	60 - 200
6	-29.5 - -34.5	400	00:01:45	85	77	11,370 - 15,276	79 - 106	--	--
7	-36.0 - -41.0	400	00:02:05	72	65	12,773 - 24,877	89 - 173	2,097 - 2,258	15 - 16
8	-42.5 - -47.5	450	00:01:33	92	85	13,922 - 14,008	97	7,514 - 13,851	52 - 96
9	-49.0 - -54.0	400	00:03:02	93	93	48,976 - 58,438	340 - 406	1,321 - 1,872	9 - 13
10	-55.5 - -60.5	450	00:02:30	95	93	35,265 - 36,617	245 - 254	3,147 - 3,540	22 - 25
11	-62.0 - -67.0	350	00:02:16	98	97	38,064 - 39,904	264 - 277	2,361 - 3,608	16 - 25

Page A 64 of 85

REVISIONS				DATE		BY		DESCRIPTION	

DERWOOD SHEPPARD, P.E. P.E. NO.: 69228 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 396-1253 Fax: (850) 395-8050 Certificate of Authorization: 6222	DRAWN BY: JMJ 05-11 CHECKED BY: DCS 05-11 DESIGNED BY: DCS 05-11 CHECKED BY: ALN 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.: COUNTY: LEON FINANCIAL PROJECT ID: 413491-1-52-01	SHEET TITLE: REPORT OF CORE BORINGS PROJECT NAME: NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH	REF. DRG. NO.: SHEET NO.: 81-9
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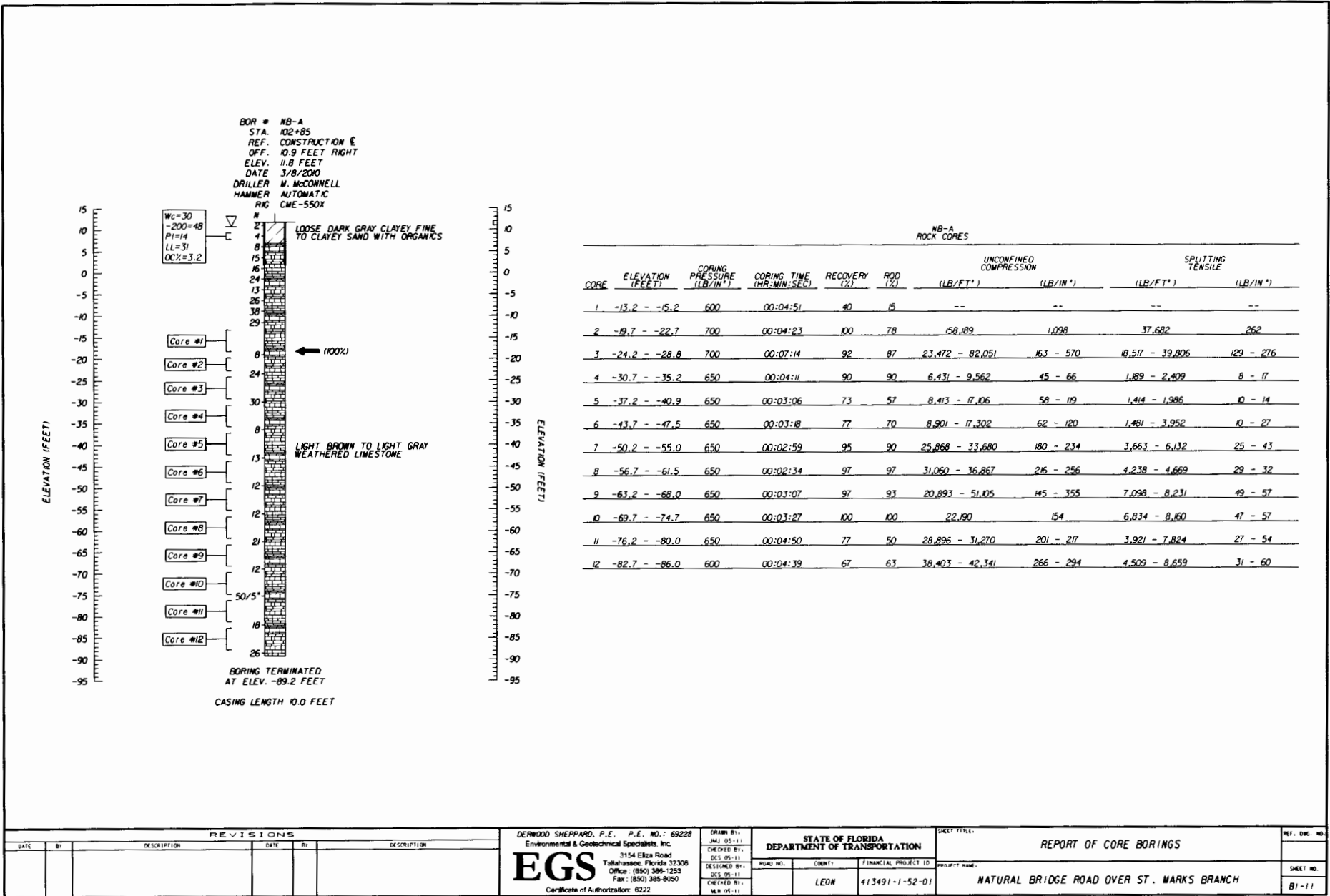


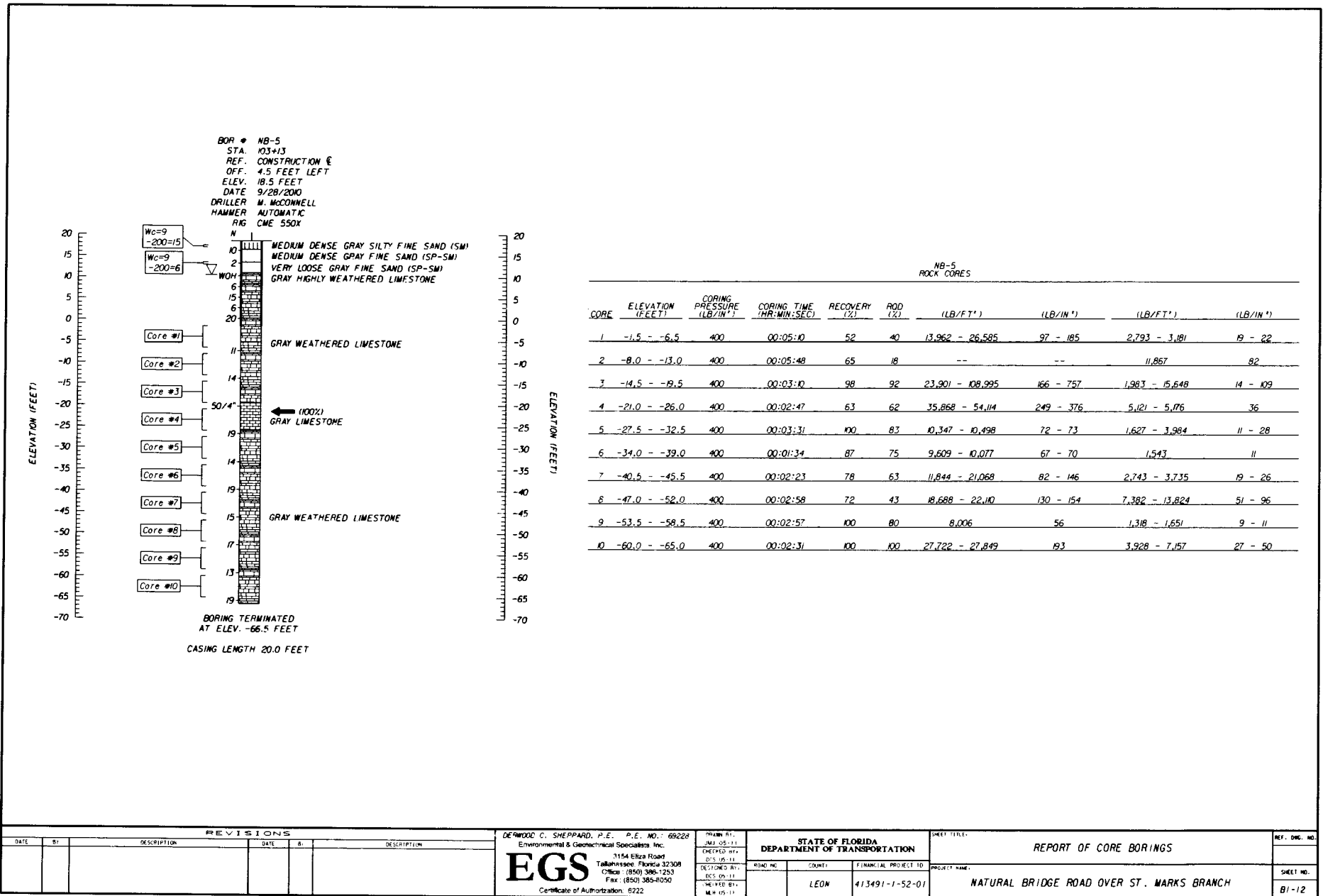
NB-4
ROCK CORES

CORE	ELEVATION (FEET)		CORING PRESSURE (LB/IN ²)	CORING TIME (HR:MIN:SEC)	RECOVERY (%)	RQD (%)	UNCONFINED COMPRESSION		SPLITTING TENSILE					
	TOP	BOTTOM					(LB/FT ²)	(LB/IN ²)	(LB/FT ²)	(LB/IN ²)				
1	-1.7	-6.7	400	00:04:22	80	75	31,624	37,699	220	262	3,950	8,553	27	59
2	-8.2	-13.2	400	00:07:10	22	8	--	--	--	--	--	--	--	--
3	-14.7	-19.7	400	00:04:55	83	75	11,545	114,363	80	794	1,510	9,302	10	65
4	-19.9	-24.9	400	00:04:01	100	82	61,080	156,519	424	1,087	6,634	9,391	46	65
5	-26.7	-31.7	400	00:04:35	83	57	10,014	10,317	70	72	1,543	3,212	11	22
6	-33.2	-38.2	400	00:02:30	25	18	16,622		115		1,766		12	
7	-39.7	-44.7	400	00:03:51	75	72	18,304	18,693	127	130	1,578	2,496	11	17
8	-46.2	-51.2	400	00:04:21	85	85	22,880	23,696	159	165	1,110	2,247	8	16
9	-52.7	-57.7	400	00:01:38	100	100	30,944	36,206	215	251	2,272	2,293		16
10	-59.2	-64.2	400	00:01:27	98	98	33,622	43,485	233	302	2,682	2,926	19	20

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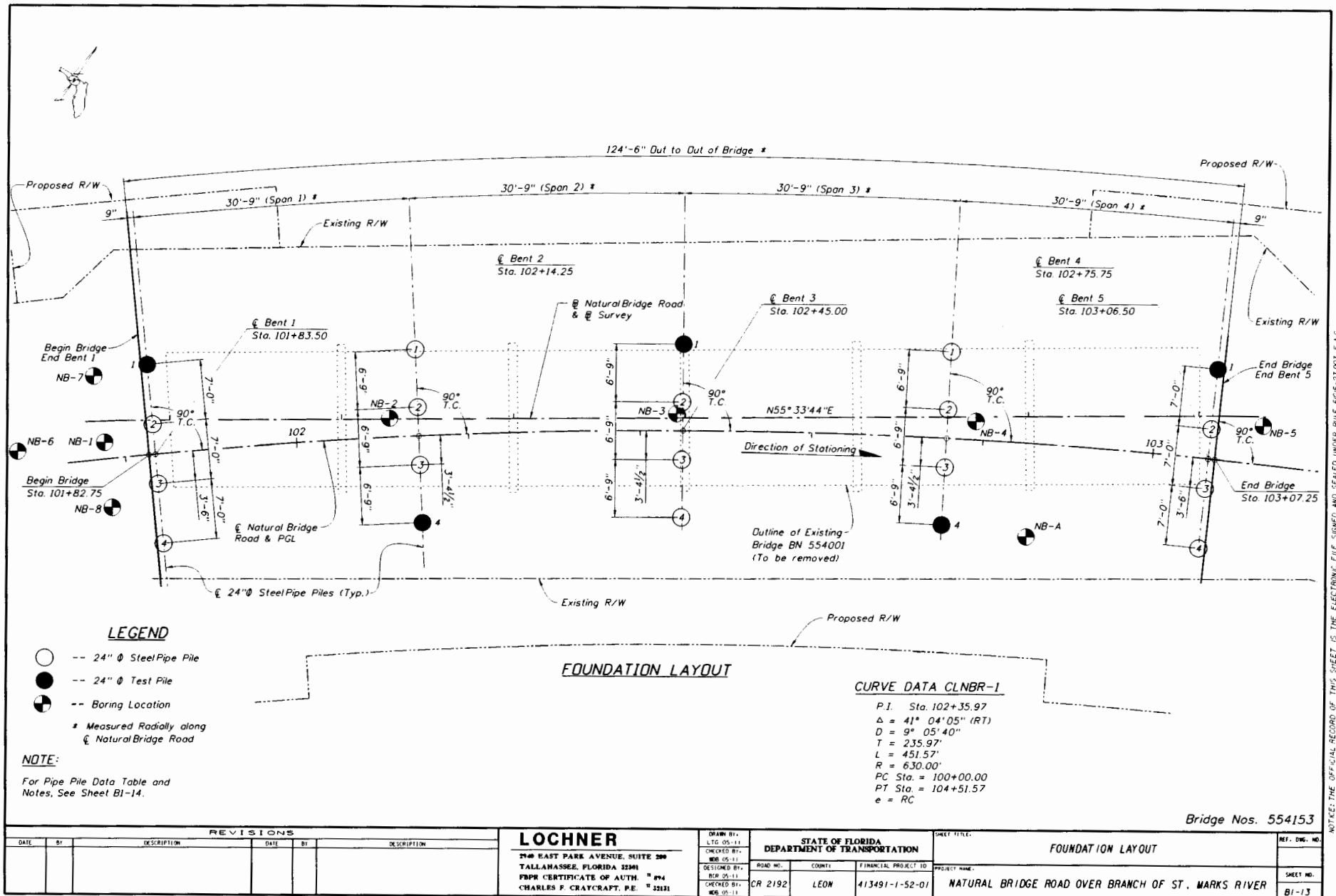
REVISIONS					DEANWOOD SHEPPARD, P.E., P.E. NO. 69228 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 384-1253 Fax: (850) 385-8950 Certificate of Authorization: 6222	DRAWN BY: JMI 05/11 CHECKED BY: DCS 05/11 DESIGNED BY: DCS 05/11 CHECKED BY: M.H. 05/11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY			DESCRIPTION	ROAD NO.	COUNTY		FINANCIAL PROJECT ID
							LEON	413491-1-52-01		81-10	





Page A67 of 85

REVISIONS					DEWOOD C. SHEPPARD, P.E. P.E. NO.: 69228 Environmental & Geotechnical Specialists, Inc. EGS 3154 Eliza Road Tallahassee, Florida 32308 Office: (850) 386-1283 Fax: (850) 386-4050 Certificate of Authorization: 6222	DRAWN BY: JMJ 05-11 CHECKED BY: DCS 05-11 DESIGNED BY: DCS 05-11 REVISION BY: MEW 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PROJECT NAME
						LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER ST. MARKS BRANCH	B1-12		



Page A68 of 85

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-33.001, F.A.C.

Bridge Nos. 554153

REVISIONS						LOCHNER 2500 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 294 CHARLES F. CRAYCRAFT, P.E. # 22121	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.	
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	BI-13		

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PILE DATA TABLE

Table Date 7-01-09

INSTALLATION CRITERIA								DESIGN CRITERIA							PILE CUT-OFF ELEVATIONS			
PIER or BENT NUMBER	PILE SIZE (in.)	NOMINAL BEARING RESISTANCE (tons)	TENSION RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	TEST PILE LENGTH (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft.)	LONG TERM SCOUR ELEVATION (ft.)	RESISTANCE FACTOR-Ø	PILE 1	PILE 2	PILE 3	PILE 4
1	24	124	0	N/A	130	N/A	N/A	93	0	N/A	N/A	N/A	N/A	0.75	14.9	14.8	14.7	14.5
2	24	153	0	-7	75	N/A	N/A	113	0	2	2	7.5	7	0.75	15.2	15.0	14.9	14.8
3	24	151	0	-7	75	N/A	N/A	113	0	1	1	7.5	7	0.75	15.3	15.2	15.1	14.9
4	24	151	0	-13	80	N/A	N/A	113	0	1	1	7.5	7	0.75	15.4	15.3	15.1	15.0
5	24	124	0	N/A	70	N/A	N/A	93	0	N/A	N/A	N/A	N/A	0.75	15.4	15.2	15.1	14.9

Factored Design Load + Net Scour Resistance + Down Drag \leq Nominal Bearing Resistance

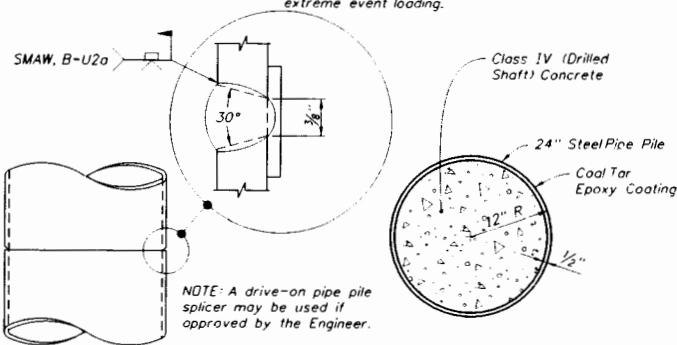
TENSION RESISTANCE - The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires tension capacity)
TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil
NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.
100-YEAR SCOUR ELEVATION - Estimated elevation of scour due to the 100 year storm event.
LONG TERM SCOUR ELEVATION - Estimated elevation of scour used in design for extreme event loading.

PILE INSTALLATION NOTES:

- Pipe piles shall be driven plumb. Provide pipe piles in accordance with FDOT Specification 962-B.8. Pipe wall thickness to be 1/2".
- The ends of all pile sections to be spliced shall be beveled and full butt-welded as shown on the plans. All splices shall be watertight.
- The Contractor shall have available at all times a suitable drop light for inspecting the entire length of the driven pipe pile before placing reinforcing steel and concrete. Cost of this work is incidental to cost of steel pipe pile.
- Steel pipe pile shall be cut off at the required elevations along a plane normal to the axis of the pile. Methods used in cutting off piles shall be submitted for approval of the Engineer.
- All welding shall conform to AMERICAN WELDING SOCIETY (AWS) Bridge Welding Code.
- N/A means values do not apply.
- All piles shall be driven to the Nominal Bearing Resistance indicated in the Plans and driving terminated. Additional driving shall not be permitted to reach the required cut-off elevation.
- Notarized mill test report shall be required for all steel pipe pile.
- Concrete for piles shall be Class IV (Drilled Shaft) concrete, f'c = 4,000 psi, and shall conform to Section 346 of the Specifications. The final installed pipe piles shall be clean and free of water before placing concrete. Concrete is to extend 5 ft. below the 100-year scour elevation.
- Place Cool Tar Epoxy Coating from the top of the pile to 5 ft. below the 100-year scour elevation, per Specification 560. On the outside surfaces of the steel pipe pile, use a three-coat system comprised of an inorganic zinc primer and two coats of cool tar-epoxy in accordance with Specification Section 560.

PILE INSTALLATION NOTES (CONT'D):

- Contractor to verify location of all utilities prior to any pile driving.
- Minimum Tip Elevation is required for lateral stability.
- No jetting will be allowed without the approval of the Engineer.
- The Contractor should not anticipate being allowed to jet piles below the minimum tip elevation.
- At each Bent, pile driving is to commence at the center of the Bent and proceed outward.
- All piles are to be dynamically load tested per Specification Section 455 during driving and on all test piles during restriking.
- The Contractor shall drive the piles open-ended, then clean out to an elevation five feet below the 100-year scour elevation. Piles shall then be restruck to check for possible loss of capacity after cleaning. Reinforced concrete shall be placed after all driving and restriking operations are complete.
- Tip protection shall be provided by the Contractor.
- The Contractor shall fill voids resulting from soil plugs with flowable fill up to 5 ft. below the 100-year scour elevation.



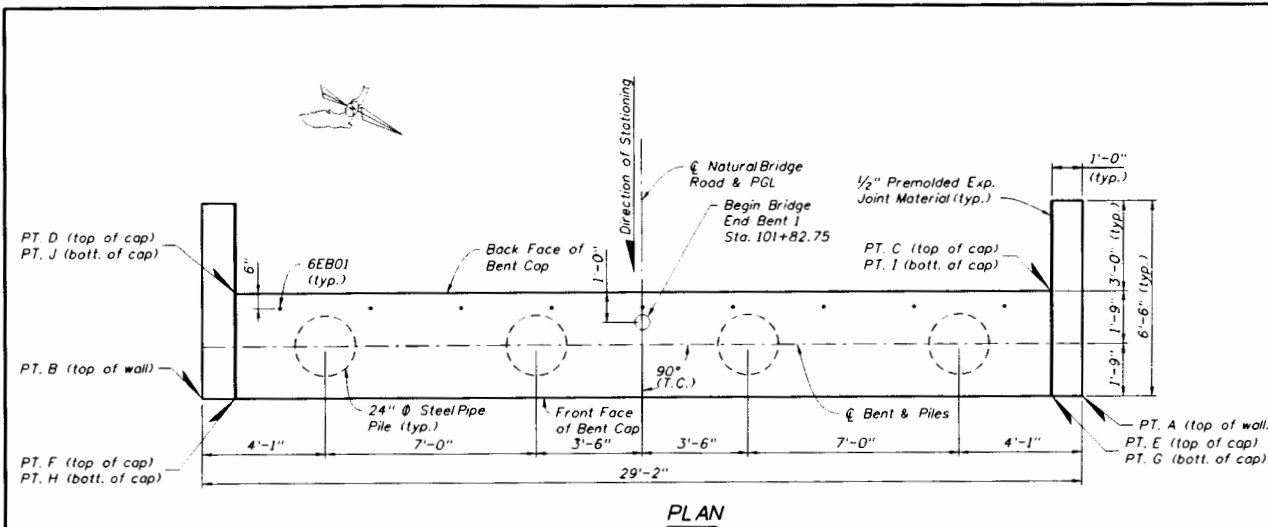
PIPE PILE SPLICE DETAIL

TYPICAL PILE SECTION

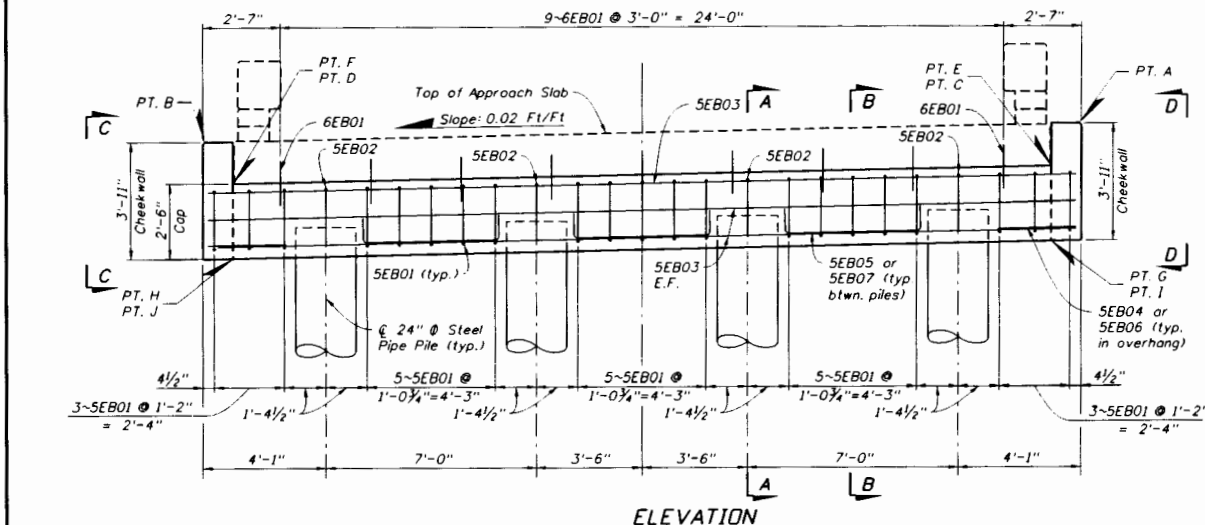
Bridge Nos. 554153

REVISIONS				LOCHNER	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION	
				2700 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FPR CERTIFICATE OF AUTH. # 894 CHARLES F. GRAYCRAFT, P.E. # 32151	DESIGN BY: LTC 05-11 CHECKED BY: R06 05-11 DESIGNED BY: BOP 05-11 CHECKED BY: R06 05-11	ROAD NO.: COUNTY: FINANCIAL PROJECT ID:	PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	81-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.001, F.A.C.



PLAN



ELEVATION

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class II Concrete (Substructure)	CY	10.2
Reinforcing Steel (Substructure)	LB	926
24" @ Steel Pipe Piling	LF	**

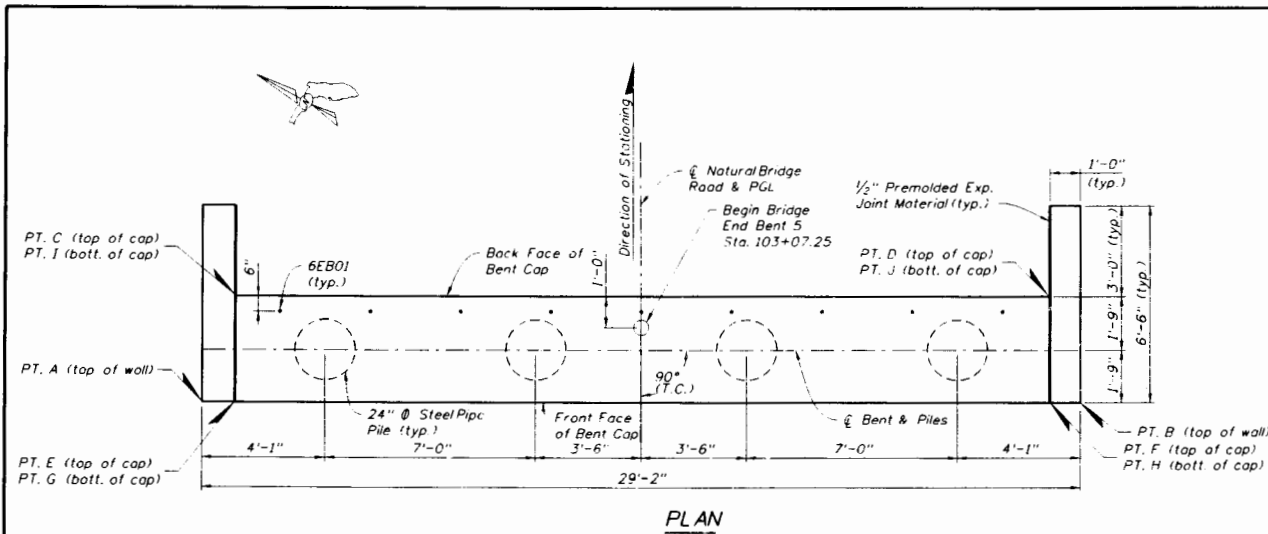
** See Summary of Bridge Pay Items.

ELEVATIONS	
POINT	ELEVATION
A	17.885
B	17.343
C	16.433
D	15.892
E	16.468
F	15.926
G	13.968
H	13.426
I	13.933
J	13.392

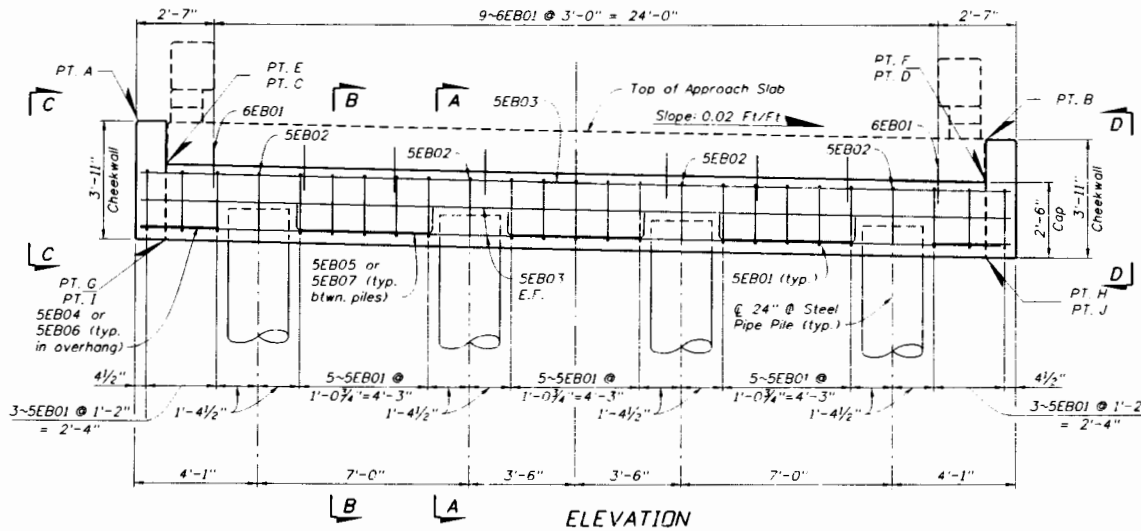
- NOTES:
- For Sections A-A and B-B, see Sheet B1-17.
 - For Views C-C and D-D, see Sheet B1-18.
 - For Reinforcing Bar List, see Sheet B1-29.
 - Environmental Classification (Substructure)
 - Slightly Aggressive for Concrete
 - Moderately Aggressive for Steel

REVISIONS				LOCHNER 2900 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 894 CHARLES F. CRAYCRAFT, P.E. # 23121	DRAWN BY: LFG 05-11 CHECKED BY: NOB 05-11 DESIGNED BY: BLR 05-11 DECDED BY: NOB 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01	SHEET TITLE: END BENT 1 PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	REF. DWG. NO. SHEET NO. B1-15
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-21.003, F.A.C.



PLAN



ELEVATION

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class II Concrete (Substructure)	CY	10.2
Reinforcing Steel (Substructure)	LB	926
24" \emptyset Steel Pipe Piling	LF	**

** See Summary of Bridge Pay Items.

ELEVATIONS	
POINT	ELEVATION
A	18.284
B	17.742
C	16.856
D	16.314
E	16.867
F	16.325
G	14.367
H	13.825
I	14.356
J	13.814

NOTES:

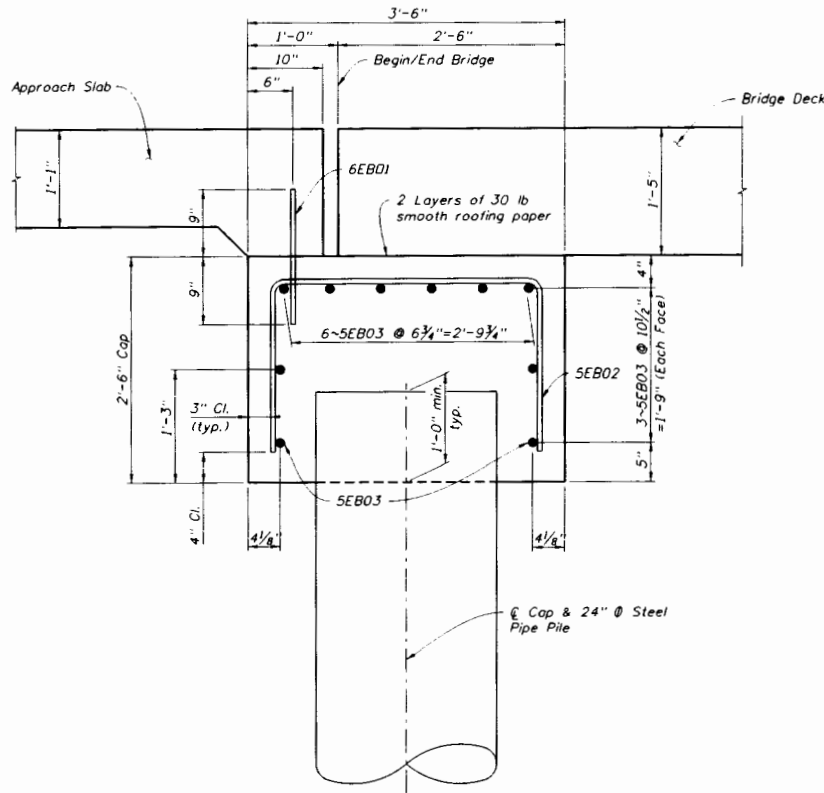
1. For Sections A-A and B-B, see Sheet BI-17.
2. For Views C-C and D-D, see Sheet BI-18.
3. For Reinforcing Bar List, see Sheet BI-29.
4. Environmental Classification (Substructure)
- Slightly Aggressive for Concrete
- Moderately Aggressive for Steel

Bridge No. 554153

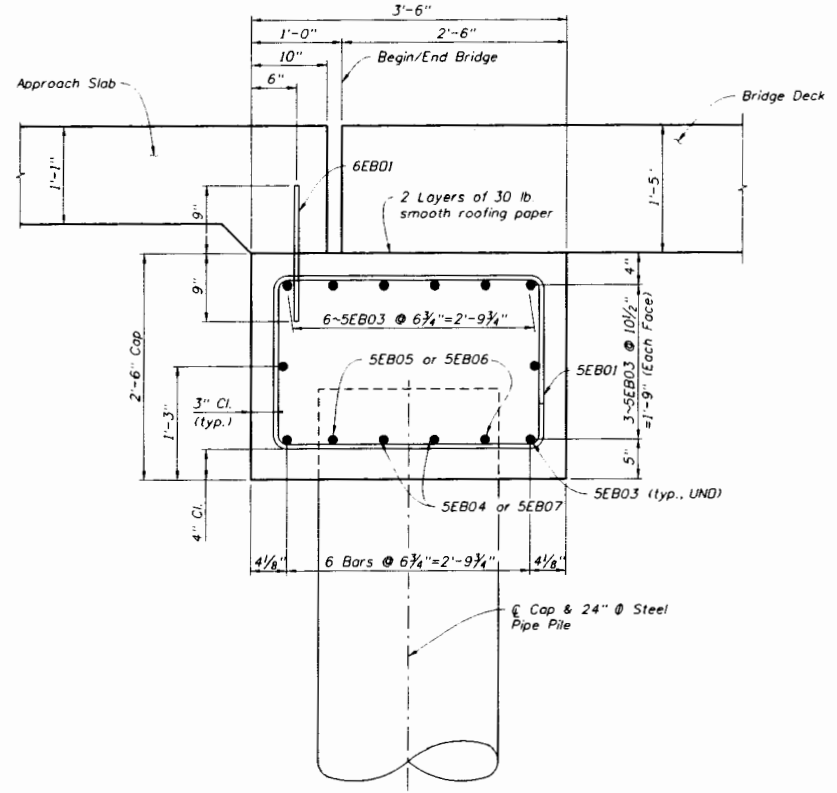
REVISIONS					LOCHNER 214 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32304 FBPP CERTIFICATE OF AUTHORITY CHARLES F. CRAYCRAFT, P.E. 52151	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: END BENT 5		REF. ENG. NO.
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	DESIGN NO.	PROJECT NO.	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	BI-16	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.



SECTION A-A



SECTION B-B

NOTES:

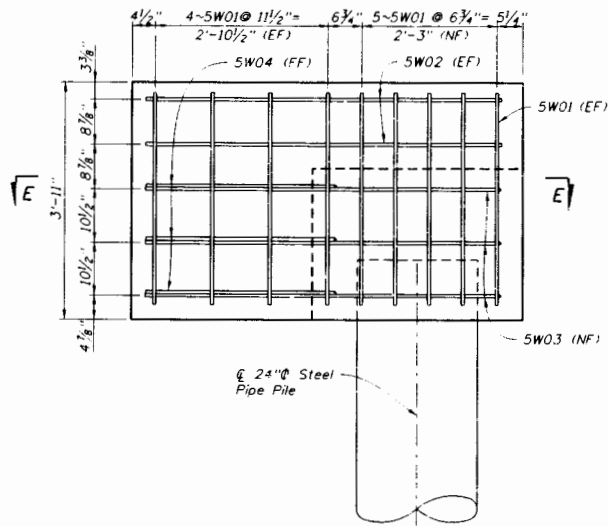
1. For location of Sections A-A and B-B see Sheet B1-15 & B1-16.
2. For Estimate of Quantities, see Sheet B1-15 & B1-16.
3. For Reinforcing Bar List see Sheet B1-29.

Bridge No. 554153

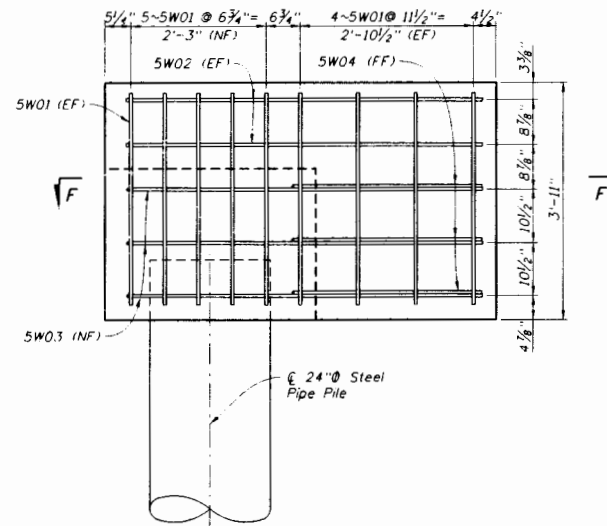
REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: END BENT DETAILS (1 OF 2)		REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.	
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER		B1-17	
						DRAWN BY: L.T.G. 05-11						
						CHECKED BY: B.B. 05-11						
						DESTINED BY: R.C.R. 05-11						
						CHECKED BY: B.B. 05-11						

cbw/ldc

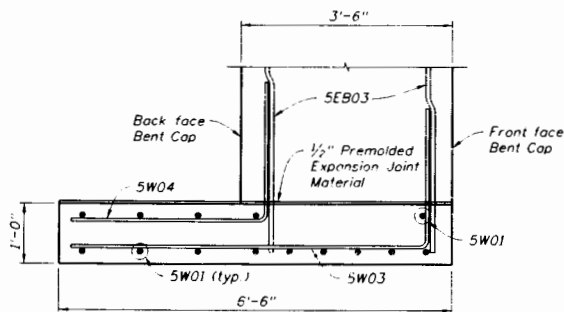
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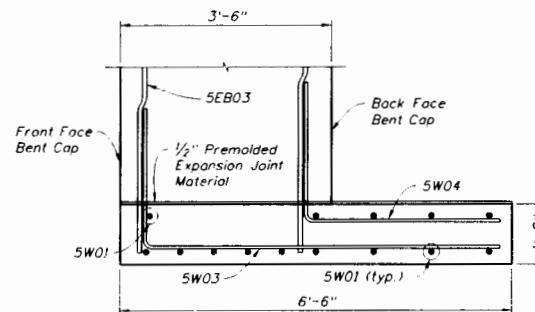
VIEW C-C



VIEW D-D



SECTION E-E



SECTION F-F

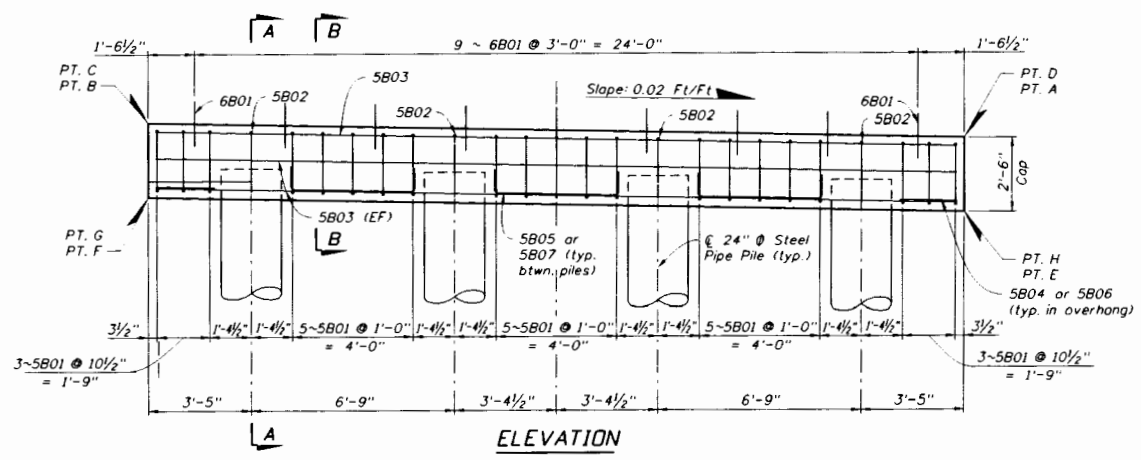
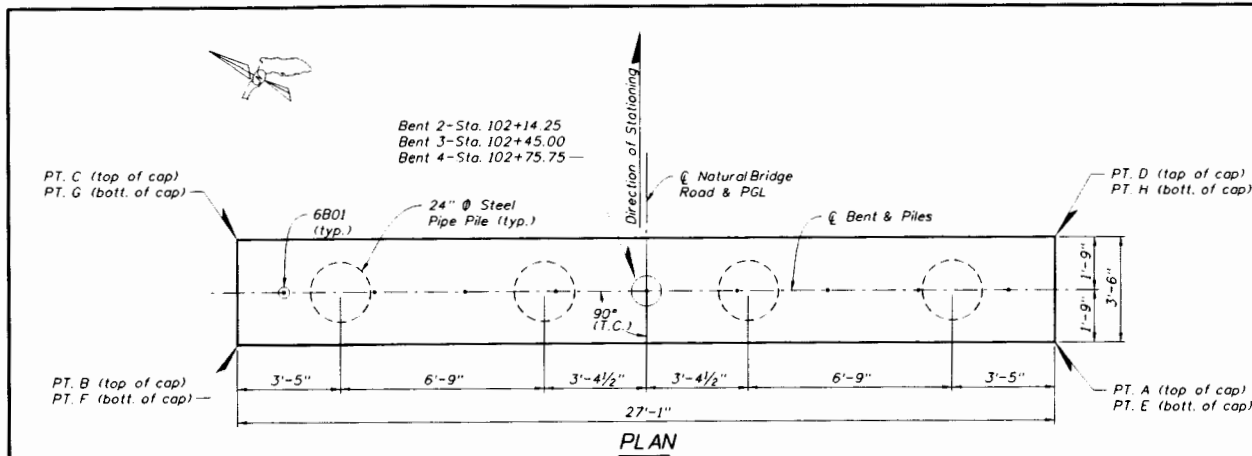
NOTES:

1. For location of Views B-B and C-C, see Sheets B1-15 & B1-16.
2. For Estimate of Quantities, see Sheet B1-15 & B1-16.
3. For Reinforcing Bar List, see Sheet B1-29.

Bridge No. 554153

REVISIONS					LOCHNER 2140 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32310 FBPR CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 32131	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: END BENT DETAILS (2 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	B1-18	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.



POINT	BENT 2	BENT 3	BENT 4
A	16.150	16.309	16.367
B	16.692	16.850	16.909
C	16.715	16.862	16.909
D	16.173	16.320	16.367
E	13.650	13.809	13.867
F	14.192	14.350	14.409
G	14.215	14.362	14.409
H	13.673	13.820	13.867

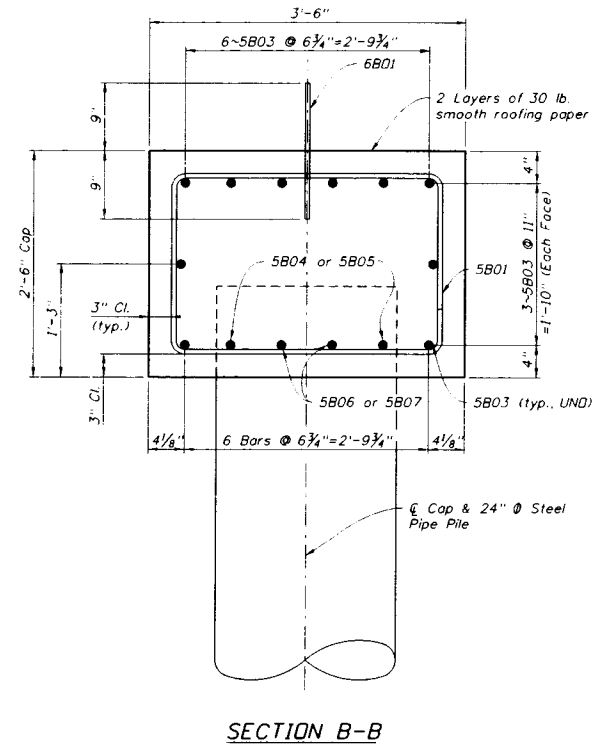
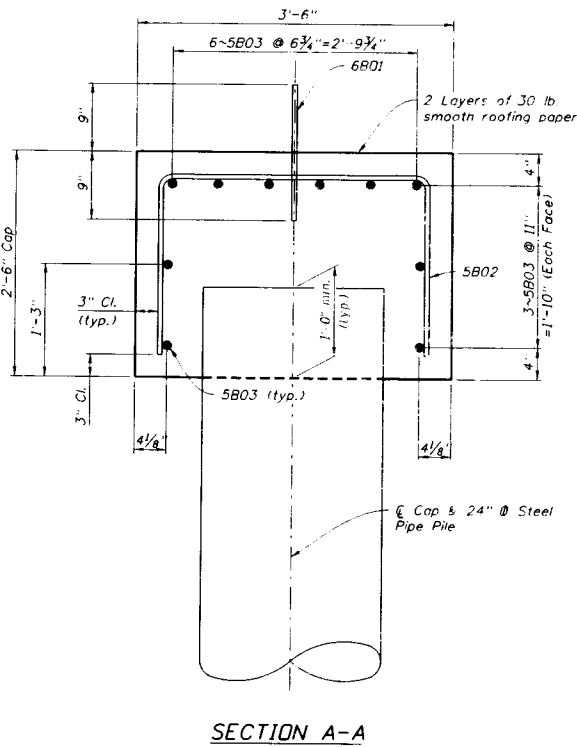
ITEM	UNIT	QUANTITY
Class II Concrete (Substructure)	CY	8.3
Reinforcing Steel (Substructure)	LB	668
24" \varnothing Steel Pipe Piling	LF	**

* Quantities are for One Intermediate Bent only
** See Summary of Bridge Pay Items

- NOTE:**
- For Reinforcing Bar List see Sheet B1-29.
 - For Sections A-A and B-B see Sheet B1-20.
 - Environmental Classification (Substructure)
-Slightly Aggressive for Concrete
-Moderately Aggressive for Steel

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32310 FBPR CERTIFICATE OF AUTH. # 894 CHARLES F. CRAYCRAFT, P.E. # 33131		DRAWN BY: L.T.G. 05-11 CHECKED BY: M.B. 05-11 DESIGNED BY: B.C.P. 05-11 CHECKED BY: M.B. 05-11		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID CR 2192 LEON 413491-1-52-01		SHEET TITLE: INTERMEDIATE BENTS 2, 3, & 4 PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER		REF. DWG. NO. SHEET NO. B1-19
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.001, F.A.C.



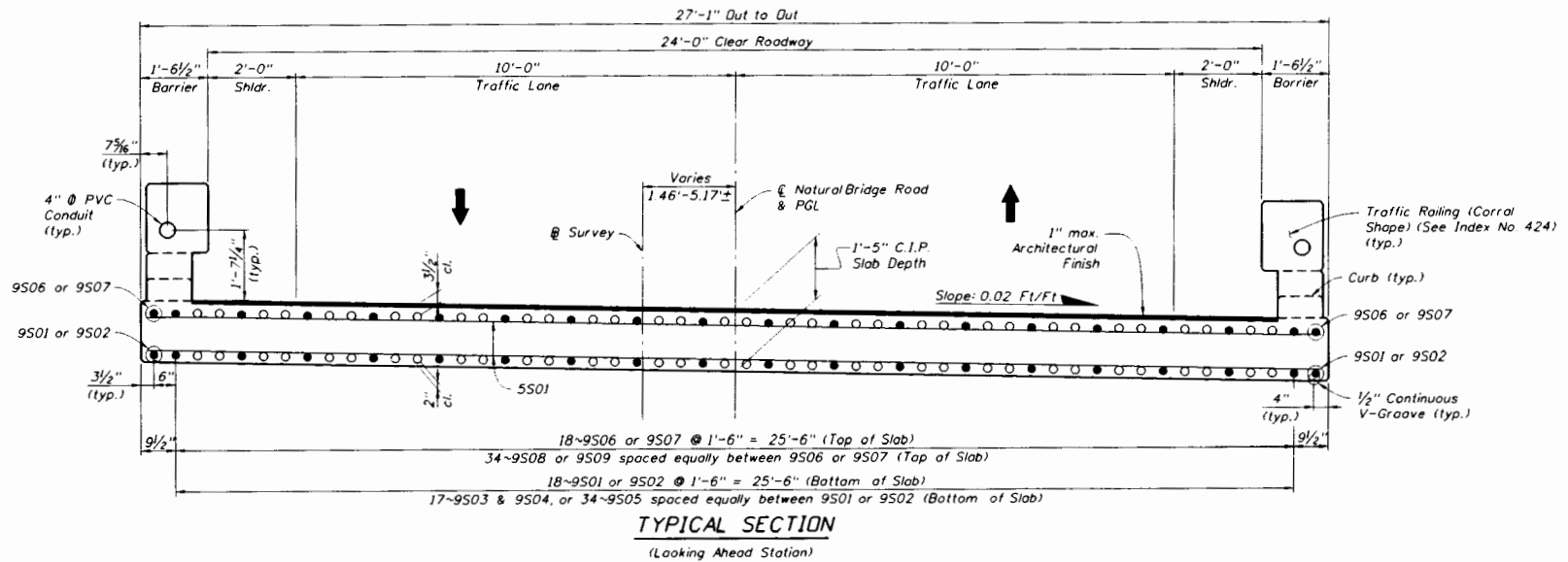
NOTES:

1. For Reinforcing Bar List see Sheet B1-29
2. Environmental Classification (Substructure)
-Slightly Aggressive for Concrete
-Moderately Aggressive for Steel

Bridge No. 554153

REVISIONS				LOCHNER 2948 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32310 P&PR CERTIFICATE OF AUTH # 894 CHARLES F. CRAYCRAFT, P.E. # 22121	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	B1-20

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.001, F.A.C.

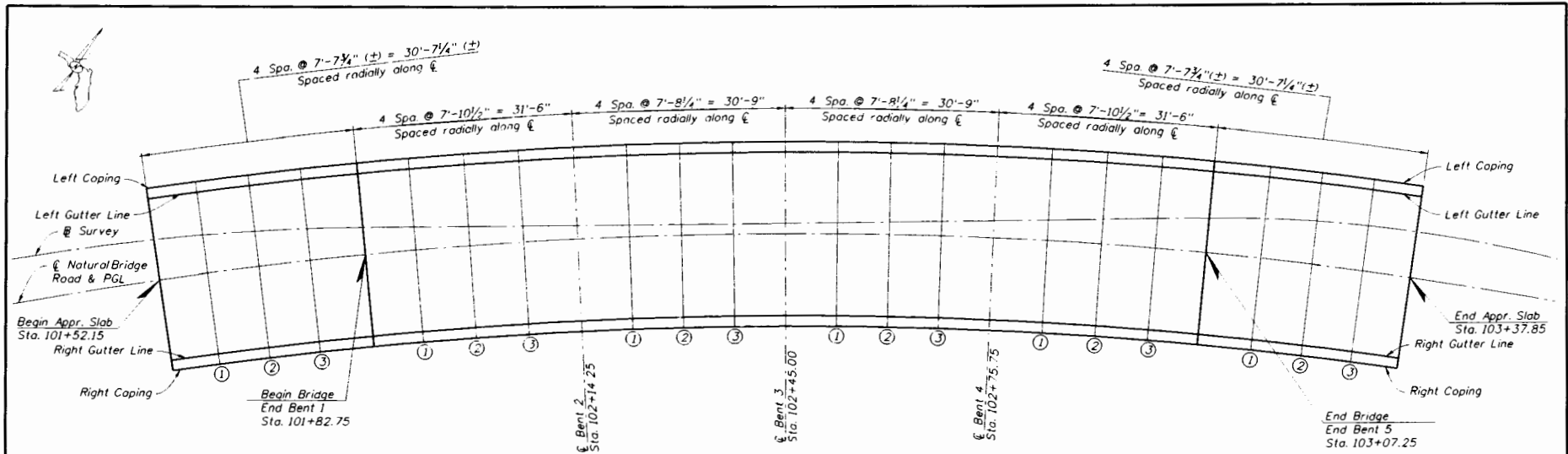


ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure)	CY	176.9
Reinforcing Steel (Superstructure)	LB	4738.3
Concrete Traffic Railing, Bridge (Corral Shape) with curb	LF	372

Bridge No. 554153

REVISIONS				LOCHNER 2540 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 894 CHARLES F. CRAYCRAFT, P.E. # 32121	DRAWN BY: LTG 08-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: TYPICAL SECTION	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	SHEET NO. B1-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68J5-23.003, F.A.C.



FINISH GRADE ELEVATIONS

LOCATION	BEGIN BRIDGE	SPAN 1		
		1	2	3
LEFT COPING	17.860	17.935	18.003	18.065
LEFT GUTTER	17.829	17.904	17.972	18.034
BASILINE SURVEY	17.671	17.732	17.789	17.841
CENTERLINE BRIDGE	17.589	17.664	17.732	17.794
RIGHT GUTTER	17.349	17.424	17.492	17.554
RIGHT COPING	17.318	17.393	17.462	17.523

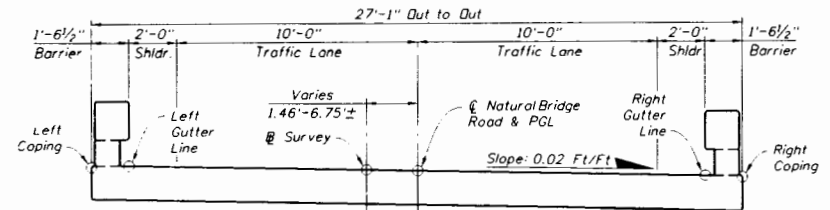
LOCATION	BENT 2	SPAN 2		
		1	2	3
LEFT COPING	18.120	18.168	18.209	18.244
LEFT GUTTER	18.089	18.137	18.178	18.213
BASILINE SURVEY	17.889	17.931	17.969	18.003
CENTERLINE BRIDGE	17.849	17.897	17.938	17.973
RIGHT GUTTER	17.609	17.657	17.698	17.733
RIGHT COPING	17.579	17.626	17.668	17.703

LOCATION	BENT 3	SPAN 3		
		1	2	3
LEFT COPING	18.273	18.296	18.312	18.322
LEFT GUTTER	18.242	18.265	18.281	18.291
BASILINE SURVEY	18.032	18.057	18.077	18.093
CENTERLINE BRIDGE	18.002	18.025	18.041	18.051
RIGHT GUTTER	17.762	17.785	17.801	17.811
RIGHT COPING	17.731	17.754	17.770	17.780

LOCATION	BENT 4	SPAN 4		
		1	2	3
LEFT COPING	18.326	18.323	18.314	18.298
LEFT GUTTER	18.295	18.292	18.283	18.267
BASILINE SURVEY	18.105	18.113	18.116	18.114
CENTERLINE BRIDGE	18.055	18.052	18.043	18.027
RIGHT GUTTER	17.815	17.812	17.803	17.787
RIGHT COPING	17.784	17.781	17.772	17.757

LOCATION	BEGIN SLAB	APPROACH SLAB 1		
		1	2	3
LEFT COPING	17.523	17.610	17.696	17.781
LEFT GUTTER	17.493	17.579	17.665	17.750
BASILINE SURVEY	17.372	17.452	17.529	17.604
CENTERLINE BRIDGE	17.253	17.339	17.425	17.510
RIGHT GUTTER	17.013	17.099	17.185	17.270
RIGHT COPING	16.982	17.068	17.154	17.239

LOCATION	END SLAB	APPROACH SLAB 2		
		1	2	3
LEFT COPING	18.248	18.214	18.179	18.144
LEFT GUTTER	18.217	18.183	18.148	18.113
BASILINE SURVEY	18.094	18.070	18.041	18.008
CENTERLINE BRIDGE	17.977	17.943	17.908	17.873
RIGHT GUTTER	17.737	17.703	17.668	17.633
RIGHT COPING	17.706	17.672	17.637	17.602



TYPICAL SECTION
(Looking Ahead Station)

NOTE:
Elevations given are top of slab elevations of copings, gutters, baseline, and centerline.

Bridge No. 554153

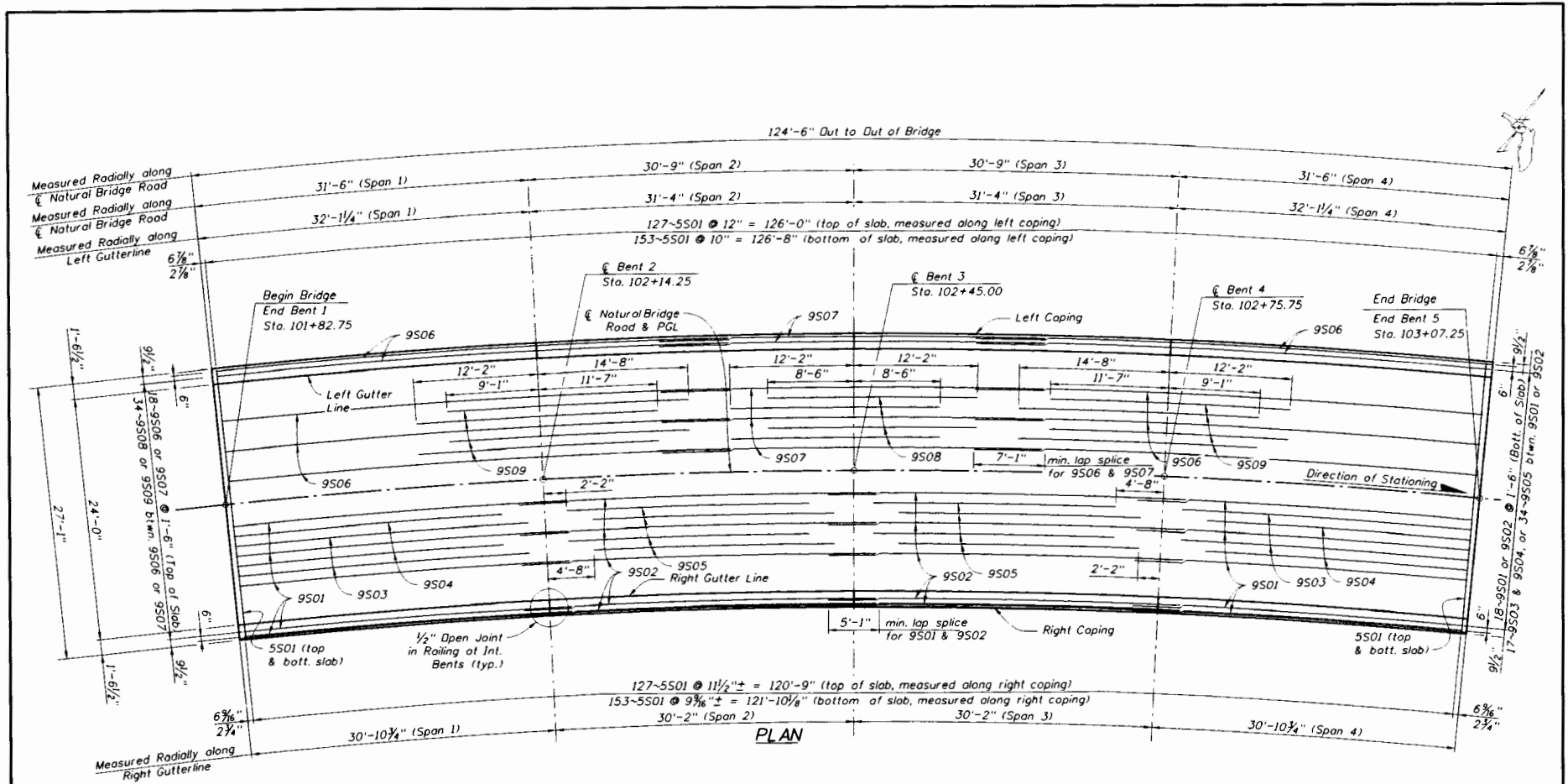
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

LOCHNER
2940 EAST PARK AVENUE, SUITE 300
TALLAHASSEE, FLORIDA 32301
FPBR CERTIFICATE OF AUTH # 894
CHARLES F. CRAYCRAFT, P.E. # 22131

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CR 2192 LEON 413491-1-52-01

SHEET TITLE:		REF. DWG. NO.
FINISH GRADE ELEVATIONS		
PROJECT NAME:		SHEET NO.
NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER		81-22

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.



PLAN

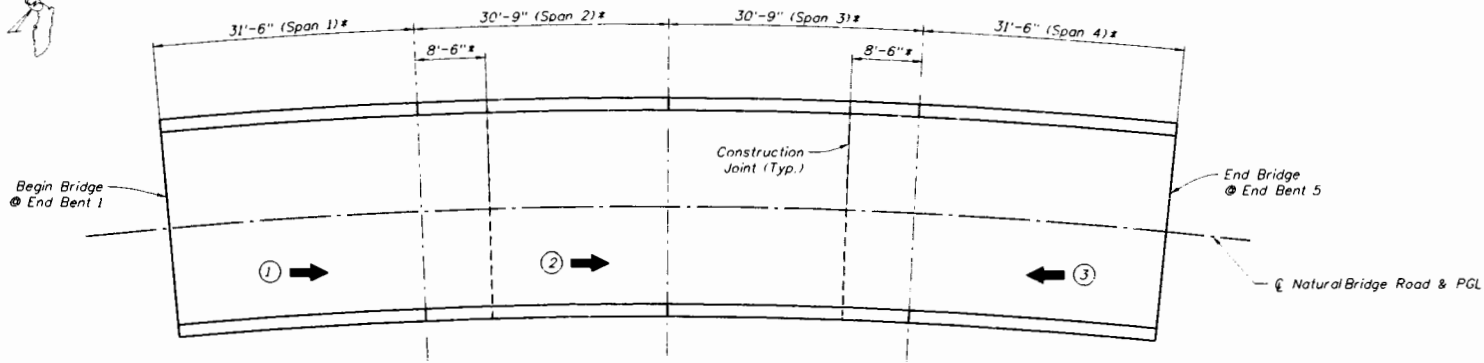
END POST LENGTH (Index No. 424)		
SPAN	GUTTER LINE	
	LEFT	RIGHT
1 & 4	3'-11 1/2"	3'-3 3/4"
2 & 3	3'-1 1/2"	2'-6 3/4"

- NOTES:
1. For reinforcing bar list, see sheet BI-29.
 2. Work this sheet with sheet BI-21.
 3. For pouring sequence, see sheet BI-24.

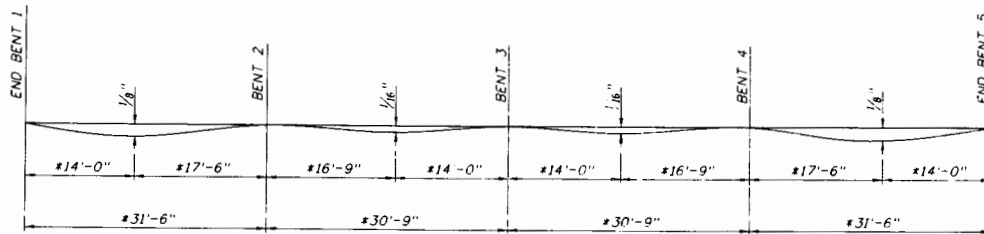
Bridge Nos. 554153

REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUPERSTRUCTURE PLAN	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	REF. DWG. NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	BI-23

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6A05-23.003, F.A.C.



CASTING SEQUENCE
* MEASURED ALONG @ NATURAL BRIDGE ROAD



DEAD LOAD DEFLECTION DIAGRAM - 4 SPAN CONTINUOUS SUPERSTRUCTURE

CAMBER NOTES:

THE CONTRACTOR SHALL CAMBER THE FORMWORK BY THE AMOUNT SHOWN ABOVE TO COMPENSATE FOR THE DEAD LOAD DEFLECTION OF THE SLAB.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADDITIONAL CAMBER TO COMPENSATE FOR THE DEFLECTION OF THE FORMWORK DUE TO THE WEIGHT OF THE WET SLAB CONCRETE, SCREED AND OTHER CONSTRUCTION LOADS.

SLAB CASTING NOTES:

1. THE SEQUENCE AND DIRECTION OF THE SLAB POUR IS INDICATED BY: (X) →
2. NO UNIT SHALL BE POURED ADJACENT TO A PREVIOUSLY POURED UNIT THAT IS NOT A MINIMUM OF 72 HOURS OLD
3. THE CASTING SEQUENCE MAY BE MIRRORRED TO ALLOW POURING TO BEGIN AT END BENT 5.
4. THE CONTRACTOR MAY SUBMIT, FOR APPROVAL, A REVISED CASTING SEQUENCE. THE SUBMITTAL SHALL INCLUDE STRUCTURAL ANALYSIS BY THE CONTRACTOR'S SPECIALTY ENGINEER REFLECTING THE NEW CASTING SEQUENCE AND ITS EFFECT ON THE CAMBER DIAGRAM. THE REVISION SHALL BE IN CONFORMANCE WITH CHAPTER 28 OF THE PLANS PREPARATION MANUAL - VOLUME I.

Bridge No. 554153

REVISIONS						LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32311 FPRP CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 22131	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SUPERSTRUCTURE DETAILS		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.	
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARK'S RIVER	B1-24		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60F5-27.003, F.A.C.

POURED EXPANSION JOINT DATA TABLE			
INDEX NO. 21110			Table Date 1-01-09
LOCATION	DIM. "A" @ 70°	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
End Bent 1	2.0"	0.52"	0.044"
End Bent 5	2.0"	0.52"	0.044"

NOTE:
Dim. "A" adjustment per 10°F shown is measured perpendicular to Expansion Joint. Work this table with Design Standards Index No. 21110.

Bridge No. 554153

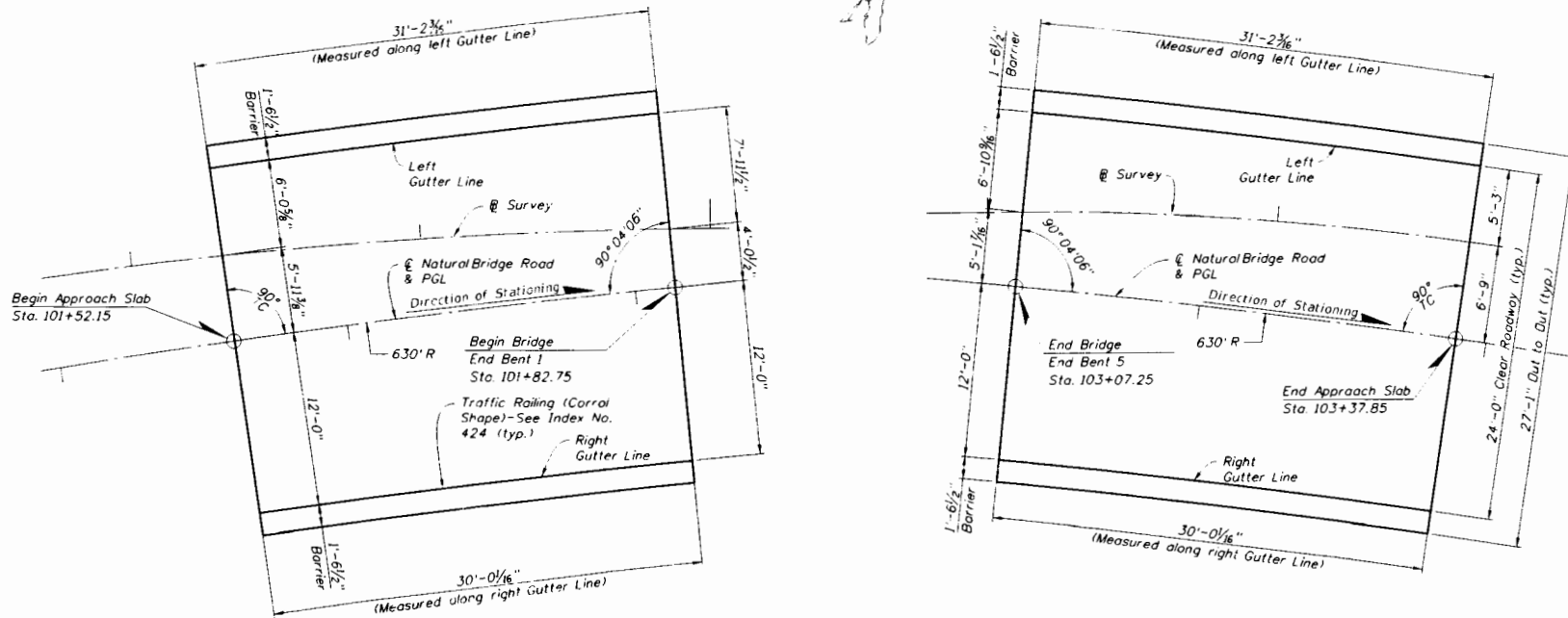
REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE		REF. Dwg. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		SHEET NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER		81-25

2940 EAST PARK AVENUE, SUITE 200
TALLAHASSEE, FLORIDA 32304
FPMR CERTIFICATE OF AUTH. # 094
CHARLES F. CRAYCRAFT, P.E. # 32131

DRAWN BY: SCR 05-11
CHECKED BY: HOB 05-11
DESIGNED BY: BCR 05-11
CHECKED BY: JTF 05-11

DATE: 02/20/2011 10:03:42 AM
PROJECTS: \\F:\3509\413491\2011\struct\81E\81E.dwg

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SHOWN AND SEALED UNDER RULE 68G5-23.001, F.A.C.



APPROACH SLAB INDEX 20910 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES							Table Date 7-01-05	
LOCATION	DIMENSIONS					ANGLE ϕ	REINFORCING STEEL (Lbs.)	CLASS II CONCRETE (C.Y.)
	L 1	L 2	M1	M2	N			
Approach Slab @ EB1	31'-2 $\frac{3}{16}$ "	30'-0 $\frac{1}{16}$ "	1'-6 $\frac{1}{2}$ "	1'-6 $\frac{1}{2}$ "	24'-0"	90° 04' 06"	5916	33.4
Approach Slab @ EB5	31'-2 $\frac{3}{16}$ "	30'-0 $\frac{1}{16}$ "	1'-6 $\frac{1}{2}$ "	1'-6 $\frac{1}{2}$ "	24'-0"	90° 04' 06"	5916	33.4

Dimension and Quantity Notes:
 Dimensions L 1 & L 2 are measured along gutter line, inside face of parapet or inside face of railing on raised sidewalks.
 Dimensions L 1 & L 2 are arc dimensions within curved alignments.
 Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators
 For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

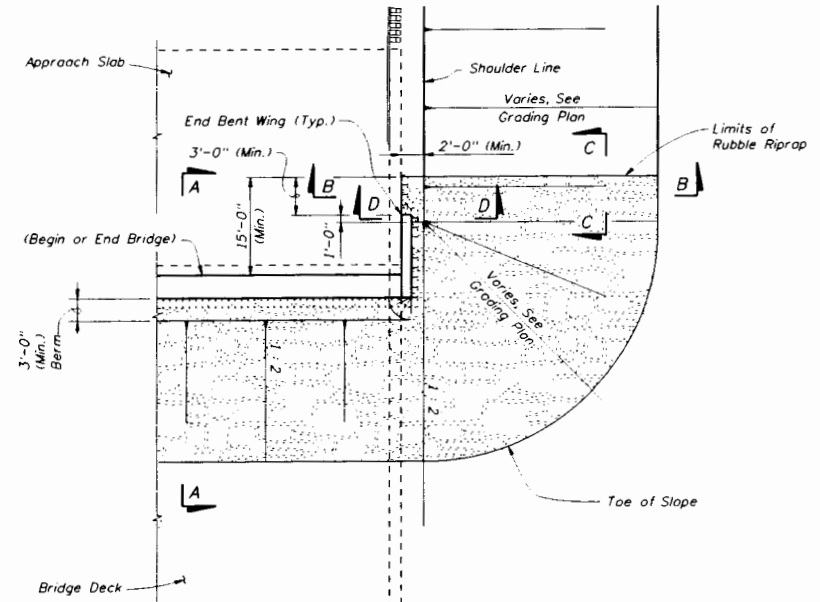
NOTE:

- Approach slab thickness shall be increased from 1'-0" (as shown on Std. Index 20910) to 1'-1" to account for the aesthetic form liners.
- Concrete cover for top riding surfaces shall be increased from 2 $\frac{1}{2}$ " (as shown on Std. Index 20910) to 3 $\frac{1}{2}$ " to account for the aesthetic form liners.

Bridge No. 554153

REVISIONS					LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 PAPER CERTIFICATE OF AUTH. # 894 CHARLES F. CRAYCRAFT, P.E. # 52121	DRAWN BY: LEG 05-11 CHECKED BY: BCP 05-11 DESIGNED BY: BCP 05-11 CHECKED BY: STF 05-11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: APPROACH SLAB	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY			DESCRIPTION	ROAD NO.	COUNTY		
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	B1-26	

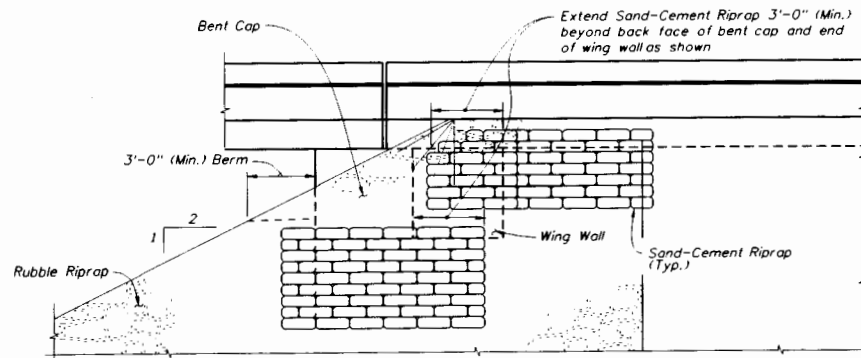
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.



PARTIAL PLAN VIEW
(Bridge Deck and Approach Slab shown Dashed)

NOTE:
For Sections A-A, B-B, C-C & D-D see Sheet B1-28.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Riprap (Sand-Cement)	CY	34.7
Riprap (Rubble)	TN	181.5
Bedding Stone	TN	62.9

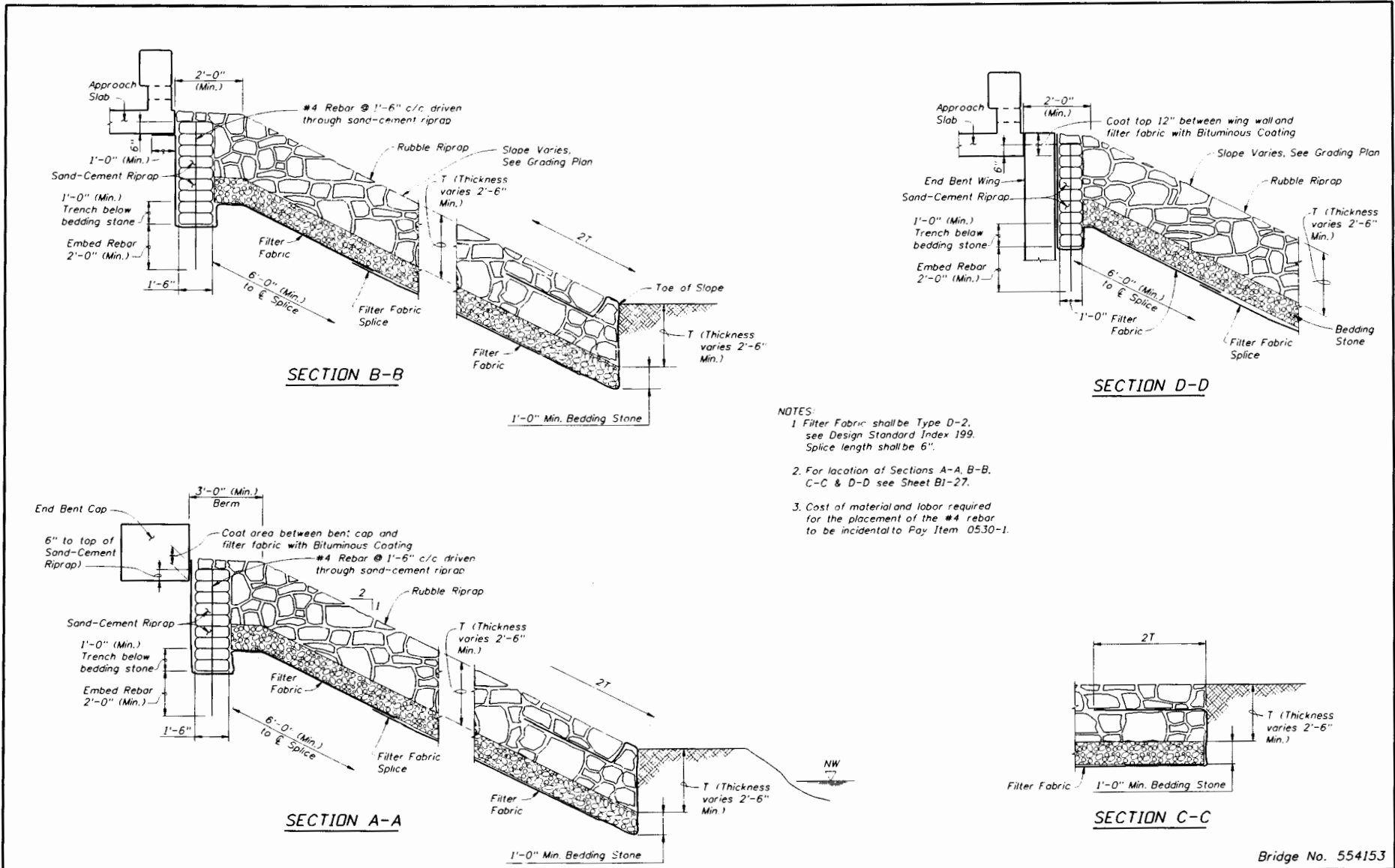


PARTIAL SIDE ELEVATION

Bridge No. 554153

REVISIONS				LOCHNER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: RUBBLE RIPRAP (1 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	B1-27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



- NOTES:
1. Filter Fabric shall be Type D-2, see Design Standard Index 199. Splice length shall be 6".
 2. For location of Sections A-A, B-B, C-C & D-D see Sheet B1-27.
 3. Cost of material and labor required for the placement of the #4 rebar to be incidental to Pay Item 0530-1.

Bridge No. 554153

REVISIONS				LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32301 PBR CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 33151	DRAWN BY: LIG 08/11 CHECKED BY: ROR 08/11 DESIGNED BY: ML 08/11 CHECKED BY: ML 08/11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: RUBBLE RIPRAP (2 OF 2)	REF. Dwg. NO.
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION	ROAD NO.		
						CR 2192	LEON	413491-1-52-01	PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	SHEET NO. B1-28

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61015-23-003, F.A.C.

MARK	LENGTH	NO	TYP	STY	B	C		D		E		F		H		J		K		N	Ø			
						FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN			FT	IN	FT
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION END BENTS																						NO. REQUIRED = 2		
5	EB01	10	10	21	4	4	4	1-11	3-0															
5	EB02	6	10	4	11			3-0	1-11	1-11														
5	EB03	28	10	10	1			28-10																
5	EB04	2	6	4	1			2-6																
5	EB05	6	9	6	11			5-3	0-10	0-10														
5	EB06	3	0	4	1			3-0																
5	EB07	6	2	6	11			4-6	0-10	0-10														
6	EB01	1	6	9	1			1-6																
5	W01	3	6	28	1			3-6																
5	W02	5	11	8	1			5-11																
5	W03	8	1	6	10			5-11	2-2															
5	W04	5	4	6	10			3-2	2-2															
LOCATION INTERMEDIATE BENTS																						NO. REQUIRED = 3		
5	B01	11	0	21	4	4	4	2-0	3-0															
5	B02	7	0	4	11			3-0	2-0	2-0														
5	B03	26	9	10	1			26-9																
5	B04	2	5	4	1			2-5																
5	B05	6	8	6	11			5-0	0-10	0-10														
5	B06	2	1	4	1			2-1																
5	B07	6	0	6	11			4-4	0-10	0-10														
6	B01	1	6	9	1			1-6																
LOCATION SLAB																						NO. REQUIRED = 1		
5	S01	26	9	280	1			26-9																
9	S01	34	7	40	1			34-7																
9	S02	36	7	40	1			36-7																
9	S03	30	1	34	1			30-1																
9	S04	27	7	34	1			27-7																
9	S05	24	10	68	1			24-10																
9	S06	51	4	40	1			51-4																
9	S07	38	7	20	1			38-7																
9	S08	20	8	34	1			20-8																
9	S09	23	9	68	1			23-9																
LOCATION APPROACH SLAB																						NO. REQUIRED = 2		
5	A1	VARY	28	1				29-5																
		30	1	0	1			30-9																
5	B	26	9	74	1			26-9																
8	A2	VARY	37	1				29-5																
		30	1	0	1			30-9																
END OF LIST																								

Bridge No. 554153

REVISIONS DATE BY DESCRIPTION 				LOCHNER 2900 EAST PARK AVENUE, SUITE 300 TALLAHASSEE, FLORIDA 32301 FBPR CERTIFICATE OF AUTH. # 094 CHARLES F. CRAYCRAFT, P.E. # 53131		DRAWN BY: LFG 06-11 CHECKED BY: JTF 08-11 DESIGNED BY: BKW 06-11 CHECKED BY: JTF 08-11		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO.: CR 2192 COUNTY: LEON FINANCIAL PROJECT ID: 413491-1-52-01 PROJECT NAME: NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER		SHEET TITLE: REINFORCING BAR LIST SHEET NO.: BI-29		REF. DWG. NO.:
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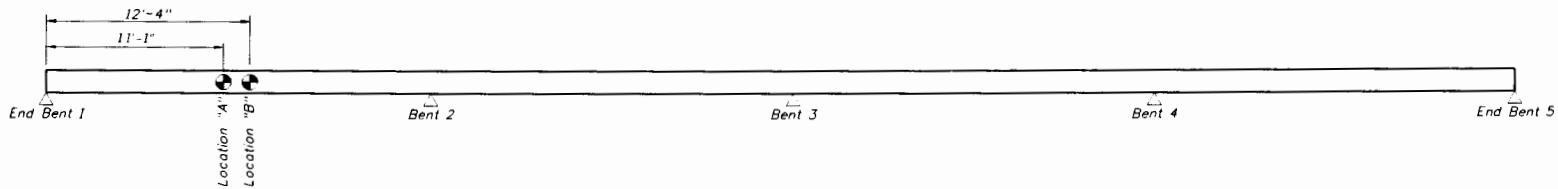
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Load Rating Summary Details for Reinforced Concrete Bridges																	Table Date 08-01-10
Table 2 - LRFR using Part A																	
Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength)				Shear (Strength)				Comments:		
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons		Location	Dimension
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.096	1.24	N/A	B	12'-4"	N/A	N/A	N/A	N/A	N/A	Interior/exterior beam DF method if other than LRFD. Other appropriate comments
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.096	1.61	N/A	R	12'-4"	N/A	N/A	N/A	N/A	N/A	
Legal Load Rating	Strength I	SU4	35.0	1.35	1.25	1.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strength I	C5	40.0	1.35	1.25	1.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Strength I	ST5	40.0	1.35	1.25	1.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.096	1.27	76.2	A	11'-1"	N/A	N/A	N/A	N/A	N/A	

General Notes:
1. This table is based on the requirements established in the January 2011 "Structures Manual".

Table 2 Notes:
1. Permit capacity is determined by using the permit vehicle in all lanes.
2. If the Design Operating Load Rating is greater than 1.4, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.
3. Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? Yes No

Abbreviations:
Inv - Inventory
Op - Operating



RATING LOCATIONS

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength I	HL-93	N/A	1.24

Bridge No. 554153

REVISIONS				LOCHNER 2940 EAST PARK AVENUE, SUITE 200 TALLAHASSEE, FLORIDA 32304 FBPR CERTIFICATE OF AUTH. # 004 CHARLES F. CRAYCRAFT, P.E. # 32151	DRAWN BY: BCR 10-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET FILE: LOAD RATING SUMMARY		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION	FILED NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						CR 2192	LEON	413491-1-52-01	NATURAL BRIDGE ROAD OVER BRANCH OF ST. MARKS RIVER	BI-30	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15 23.003, F.A.C.

Exhibit "B"

701-GWD.01-11/00

March 22, 2012

This instrument prepared by,
or under the direction of,
Timothy H. Wells
Department of Transportation
P. O. Box 607
Chipley, FL 32428

Legal description approved by:
Shannon Riley

Parcel	1100.1
Item/Segment No.	4134911
Managing District	3
C.R.	Natural Bridge Road
County	Leon

WARRANTY DEED

THIS WARRANTY DEED Made the 22 day of July, 2012, by ST. JOE TIMBERLAND COMPANY OF DELAWARE, LLC, a Delaware Limited Liability Company, grantor, to LEON COUNTY, FLORIDA, whose address is 301 S. Monroe Street, Tallahassee, Florida 32301, grantee: (wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals and the successors, and assigns of organizations).

WITNESSETH: That the grantor, for and in consideration of the sum of \$1.00 and other valuable considerations, receipt and sufficiency being hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Leon County, Florida, viz:

A. A parcel of land being in Section 29, Township 2 South, Range 2 East, Leon County, Florida, described as follows: Commence at a 1 inch pinched iron pipe (no ID) marking the southwest corner of the Northwest ¼ of the Northeast ¼ of said Section 29; thence North 89°54'15" East 614.59 feet along the south line of said Northwest ¼ of Northeast ¼ to the centerline of survey of Natural Bridge Road (county maintained), as shown on Florida Department of Transportation (F.D.O.T.) Right of Way Map F.P. No. 4134911 (said map being on file at F.D.O.T. District 3 Office, Chipley, Florida); thence North 33°46'18" East 69.81 feet along said centerline of survey; thence departing said centerline, run North 56°13'42" West 18.16 feet to the existing northwesterly right of way line of said Natural Bridge Road, as shown on said Right of Way Map and POINT OF BEGINNING; thence North 33°30'19" East 42.62 feet along said northwesterly right of way line; thence North 36°48'23" East 8.92 feet along said right of way line; thence departing said right of way line, run South 41°38'07" West 52.02 feet; thence South 56°13'42" East 6.84 feet to POINT OF BEGINNING;

Containing 165 square feet, more or less.

ALSO:

B. A parcel of land being in Section 29, Township 2 South, Range 2 East, Leon County, Florida, described as follows: Commence at a 1 inch pinched iron pipe (no ID) marking the southwest corner of the Northwest ¼ of the Northeast ¼ of said Section 29; thence North 89°54'15" East 614.59 feet along the south line of said Northwest ¼ of Northeast ¼ to the centerline of survey of Natural Bridge Road (county maintained), as shown on Florida Department of Transportation (F.D.O.T.) Right of Way Map F.P. No. 4134911 (said map being on file at F.D.O.T. District 3 Office, Chipley, Florida); thence North 33°46'18" East 133.03 feet along said centerline of survey to a point on a tangent curve to the right (concave southeasterly); thence northeasterly along said centerline and said

curve, having a radius of 322.10 feet, for a distance of 122.50 feet, through a central angle of 21°47'26" to end of curve; thence North 55°33'44" East 14.59 feet along said centerline of survey; thence departing said centerline, run North 34°26'16" West 20.05 feet to the existing northwesterly right of way line of said Natural Bridge Road, as shown on said Right of Way Map and POINT OF BEGINNING; thence South 55°05'28" West 19.85 feet along said right of way line; thence South 12°15'29" West 8.10 feet; thence South 49°13'53" West 4.85 feet along said northwesterly right of way line; thence departing said right of way line, run North 40°46'03" West 10.78 feet to a point on a non-tangent curve to the right (concave southeasterly); thence (from a tangent bearing of North 49°13'57" East) northeasterly along said curve, having a radius of 660.00 feet, for a distance of 31.43 feet, through a central angle of 02°43'42" to end of curve; thence South 38°02'21" East 7.20 feet to POINT OF BEGINNING;

Containing 237 square feet, more or less.

ALSO:

- C. A parcel of land being in Section 29, Township 2 South, Range 2 East, Leon County, Florida, described as follows: Commence at a 1 inch pinched iron pipe (no ID) marking the southwest corner of the Northwest ¼ of the Northeast ¼ of said Section 29; thence North 89°54'15" East 614.59 feet along the south line of said Northwest ¼ of Northeast ¼ to the centerline of survey of Natural Bridge Road (county maintained), as shown on Florida Department of Transportation (F.D.O.T.) Right of Way Map F.P. No. 4134911 (said map being on file at F.D.O.T. District 3 Office, Chipley, Florida); thence North 33°46'18" East 133.03 feet along said centerline of survey to a point on a tangent curve to the right (concave southeasterly); thence northeasterly along said centerline and said curve, having a radius of 322.10 feet, for a distance of 122.50 feet, through a central angle of 21°47'26" to end of curve; thence North 55°33'44" East 107.89 feet along said centerline of survey; thence departing said centerline, run North 34°26'16" West 20.82 feet to the existing northwesterly right of way line of said Natural Bridge Road, as shown on said Right of Way Map and POINT OF BEGINNING; thence North 55°05'28" East 19.85 feet along said right of way line; thence South 80°08'19" East 13.33 feet; thence North 63°58'56" East 0.84 feet along said northwesterly right of way line; thence departing said right of way line, run North 27°07'33" West 11.72 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 62°52'27" West) southwesterly along said curve, having a radius of 660.00 feet, for a distance of 31.43 feet, through a central angle of 02°43'42" to end of curve; thence South 29°51'15" East 5.62 feet to POINT OF BEGINNING;

Containing 184 square feet, more or less.

ALSO:

- D. A parcel of land being in Section 29, Township 2 South, Range 2 East, Leon County, Florida, described as follows: Commence at a 1 inch pinched iron pipe (no ID) marking the southwest corner of the Northwest ¼ of the Northeast ¼ of said Section 29; thence North 89°54'15" East 614.59 feet along the south line of said Northwest ¼ of Northeast ¼ to the centerline of survey of Natural Bridge Road (county maintained), as shown on Florida Department of Transportation (F.D.O.T.) Right of Way Map F.P. No. 4134911 (said map being on file at F.D.O.T. District 3 Office, Chipley, Florida); thence North 33°46'18" East 133.03 feet along said centerline of survey to a point on a tangent curve to the right (concave southeasterly); thence northeasterly along said centerline and said curve, having a radius of 322.10 feet, for a distance of 122.50 feet, through a central angle of 21°47'26" to end of curve; thence North 55°33'44" East 122.41 feet to a point on a tangent curve to right (concave southeasterly); thence northeasterly along said curve, having a radius of 211.98 feet, for a distance of 71.32 feet, through a central angle of 19°18'38" to end of curve; thence North 74°50'22" East 75.42 feet along said centerline of survey; thence departing said centerline, run North 15°09'38" West 15.90 feet to the existing northerly right of way line of said Natural Bridge Road, as shown on said Right of Way Map and POINT OF BEGINNING; thence South 75°01'33" West 72.16 feet along said northerly right of way line; thence departing said right of way line, run North 60°28'42" East 29.92 feet; thence North 79°34'20" East 43.33 feet; thence South 15°09'38" East 4.10 feet to POINT OF BEGINNING;

Containing 360 square feet, more or less.

ALSO:

- E. A parcel of land being in Section 29, Township 2 South, Range 2 East, Leon County, Florida, described as follows: Commence at a 1 inch pinched iron pipe (no ID) marking the southwest corner of the Northwest ¼ of the Northeast ¼ of said Section 29; thence North 89°54'15" East 614.59 feet along the south line of said Northwest ¼ of Northeast ¼ to the centerline of survey of Natural Bridge Road (county maintained), as shown on Florida Department of Transportation (F.D.O.T.) Right of Way Map F.P. No. 4134911 (said map being on file at F.D.O.T. District 3 Office, Chipley, Florida); thence North 33°46'18" East 69.81 feet along said centerline of survey; thence departing said centerline, run South 56°13'42" East 16.92 feet to the existing southeasterly right of way line of said Natural Bridge Road, as shown on said Right of Way Map and POINT OF BEGINNING; thence North 35°09'12" East 35.65 feet along said right of way line; thence North 38°05'44" East 62.72 feet; thence North 43°05'07" East 58.00 feet; thence North 55°49'57" East 156.84 feet; thence North 70°28'41" East 57.23 feet; thence North 74°03'54" East 100.04 feet along said southeasterly right of way line; thence departing said right of way line, run South 42°19'37" West 36.87 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 74°41'50" West) southwesterly along said curve, having a radius of 590.00 feet, for a distance of 46.83 feet, through a central angle of 04°32'50" to end of curve; thence North 19°51'00" West 5.00 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 70°09'00" West) southwesterly along said curve, having a radius of 595.00 feet, for a distance of 47.22 feet, through a central angle of 04°32'50" to end of curve; thence North 24°23'50" West 5.00 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 65°36'10" West) southwesterly along said curve, having a radius of 600.00 feet, for a distance of 57.14 feet, through a central angle of 05°27'25" to end of curve; thence North 29°51'15" West 5.00 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 60°08'45" West) southwesterly along said curve, having a radius of 605.00 feet, for a distance of 86.43 feet, through a central angle of 08°11'06" to end of curve; thence South 38°02'21" East 5.00 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 51°57'39" West) southwesterly along said curve, having a radius of 600.00 feet, for a distance of 47.62 feet, through a central angle of 04°32'50" to end of curve; thence North 42°35'11" West 5.00 feet to a point on a non-tangent curve to the left (concave southeasterly); thence (from a tangent bearing of South 47°24'49" West) southwesterly along said curve, having a radius of 605.00 feet, for a distance of 144.05 feet, through a central angle of 13°38'31" to end of curve; thence North 56°13'42" West 8.08 feet to POINT OF BEGINNING;

Containing 5,843 square feet, more or less.

TOGETHER with all tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances.

IN WITNESS WHEREOF, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:
(Two witnesses required by Florida Law)

St. Joe Timberland Company of Delaware,
LLC

Janet P. Greeno
Print Name: Janet P. Greeno

By: Patrick Bienvenue
Its: Executive Vice President

Jeff Stauffer
Print Name: Jeff Stauffer

Address of grantor:
133 S. Watersound Parkway
Watersound, FL 32413

STATE OF Florida
COUNTY OF Walton

The foregoing instrument was acknowledged before me this day 23rd of July, 2012, by Patrick Bienvenue, who is personally known to me or who has produced _____ as identification.

Sherry L. Johnson
(Type/print or stamp name under signature)
Title or rank (Serial No., if any) SEE 202470

Affix Seal





Leon County

Board of County Commissioners

301 South Monroe Street, Tallahassee, Florida 32301
(850) 606-5302 www.leoncountytfl.gov

Commissioners

BILL PROCTOR
District 1

JANE G. SAULS
District 2

JOHN DAILEY
District 3

BRYAN DESLOGE
District 4

KRISTIN DOZIER
District 5

MARY ANN LINDLEY
At-Large

NICK MADDOX
At-Large

VINCENT S. LONG
County Administrator

HERBERT W.A. THIELE
County Attorney

March 12, 2015

The Honorable Benjamin Bishop, Chairman
Jefferson County Board of County Commissioners
1 Courthouse Circle
Monticello, FL 32344

Dear Chairman Bishop,

On behalf of the Leon County Board of County Commissioners, I am writing to inquire about Jefferson County's interest in providing funding for a temporary bridge during the replacement of the bridge on Natural Bridge Road. Leon County is also making a similar request to Wakulla County.

As you are aware, Leon County sent a letter to Florida Department of Transportation (FDOT) on February 11, 2015 expressing concerns raised by citizens regarding the duration of the closure, the proposed 21-mile detour route, and the limited access to emergency services. It is my understanding that Jefferson County adopted a resolution expressing similar concerns.

On March 6, we received a response from FDOT indicating that it has suspended all activity on this project with respect to our shared concerns regarding public safety. Additionally, FDOT identified alternatives for consideration, which included options to retain a temporary bridge throughout the duration of the project. However, preliminary estimates indicate that these options would add in excess of an additional \$2 million to the total project cost.

Prior to the Leon County Commission's consideration of whether to move forward or restructure the project, we would like to determine Wakulla and Jefferson Counties' interest in funding the temporary bridge by Friday, April 3 in advance of our next County Commission meeting. In the meantime, should you have any questions please do not hesitate to contact me.

Sincerely,

Mary Ann Lindley
Chairman

CC: Leon County Board of County Commissioners
Vincent S. Long, County Administrator
Herb Thiele, County Attorney
Tommy Barfield, FDOT Secretary District 3



Leon County

Board of County Commissioners

301 South Monroe Street, Tallahassee, Florida 32301
(850) 606-5302 www.leoncountyfl.gov

Commissioners

BILL PROCTOR
District 1

JANE G. SAULS
District 2

JOHN DAILEY
District 3

BRYAN DESLOGE
District 4

KRISTIN DOZIER
District 5

MARY ANN LINDLEY
At-Large

NICK MADDOX
At-Large

VINCENT S. LONG
County Administrator

HERBERT W.A. THIELE
County Attorney

March 12, 2015

The Honorable Ralph Thomas, Chairman
Wakulla County Board of County Commissioners
3093 Crawfordville Highway
Crawfordville, FL 32327

Dear Chairman Thomas,

On behalf of the Leon County Board of County Commissioners, I am writing to inquire about Wakulla County's interest in providing funding for a temporary bridge during the replacement of the bridge on Natural Bridge Road. Leon County is also making a similar request to Jefferson County.

As you are aware, Leon County sent a letter to Florida Department of Transportation (FDOT) on February 11, 2015 expressing concerns raised by citizens regarding the duration of the closure, the proposed 21-mile detour route, and the limited access to emergency services. It is my understanding that Wakulla County sent a similar letter to FDOT.

On March 6, we received a response from FDOT indicating that it has suspended all activity on this project with respect to our shared concerns regarding public safety. Additionally, FDOT identified alternatives for consideration, which included options to retain a temporary bridge throughout the duration of the project. However, preliminary estimates indicate that these options would add in excess of an additional \$2 million to the total project cost.

Prior to the Leon County Commission's consideration of whether to move forward or restructure the project, we would like to determine Wakulla and Jefferson Counties' interest in funding the temporary bridge by Friday, April 3 in advance of our next County Commission meeting. In the meantime, should you have any questions please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Mary Ann Lindley".

Mary Ann Lindley
Chairman

CC: Leon County Board of County Commissioners
Vincent S. Long, County Administrator
Herb Thiele, County Attorney
Tommy Barfield, FDOT Secretary District 3

DISTRICT	COUNTY	OWNER	BRIDGE	STRUCTURE NAME	ROADWAY	ADT	FACILITY CROSSED	YEAR BUILT	RECONSTRUCTED	LAST INSPECTION	SUFFICIENCY RATING	HEALTH INDEX	NBI RATING
Northwest Florida	Leon	County Highway Agency	550119		Lake Bradford Road	2,200	Munson Slough	1993		2/19/2013			
Northwest Florida	Leon	State Highway Agency	550120		SR61 Monroe St.	20,300	Ditch	1977		8/7/2013	79.1	84.55	
Northwest Florida	Leon	State Highway Agency	550121		SR 363, Adams St.	16,100	Ditch	1974		8/7/2013	97.7	91.11	
Northwest Florida	Leon	State Highway Agency	550122	Veterans Memorial Bridge	US319 SR261	12,000	SR61 Thomasville Rd.	1997		8/25/2014	100	98.93	
Northwest Florida	Leon	State Highway Agency	550124		US 319 SR261	59,000	Capital Circle Ck	1993		2/20/2014	70	85.26	
Northwest Florida	Leon	State Highway Agency	550125		SR61	19,000	Drainage Ditch	1958		4/15/2014	96.9	86.99	
Northwest Florida	Leon	State Highway Agency	550127		US 90 SR 10	8,000	Ochlockonee River	1995		7/16/2014	98.8	86.64	
Northwest Florida	Leon	State Highway Agency	550133		SR 20	3,100	Harvey Creek	1998		12/30/2013	96.1	90.01	
Northwest Florida	Leon	State Highway Agency	550134		SR20	3,100	Freeman Creek	1999		9/10/2014	95.2	89.52	
Northwest Florida	Leon	State Highway Agency	550135		SR20	3,100	Polk Creek	1999		9/10/2014	95.2	89.71	
Northwest Florida	Leon	State Highway Agency	550136		US90 SR10	9,400	Alford Arm Tributary	2012		12/3/2014	97.5	88.15	
Northwest Florida	Leon	State Highway Agency	550137		US90 SR10	9,400	Alford Arm Tributary	2011		12/3/2014	97.5	85.92	
Northwest Florida	Leon	State Highway Agency	550138		US319 SR61	19,400	Munson Slough	1999	2005	4/24/2013	85	86.92	
Northwest Florida	Leon	City or Municipal Highway Agency	550141		SR366-Stadium Dr	11,500	CentralDrainDitch	2001		4/22/2013	82.9	83.58	
Northwest Florida	Leon	State Highway Agency	550142		SR366 Pensacola St	18,500	Central Drive Ditch	2001		8/20/2014	96.2	88.75	
Northwest Florida	Leon	State Highway Agency	550144		SR61 US319	5,398	Foshalee Slu	2000		11/19/2013	92.7	84.89	
Northwest Florida	Leon	State Highway Agency	550150		WB I10 SR8	29,853	SR61Thomasville Road	2009		4/1/2013	98	87.00	
Northwest Florida	Leon	State Highway Agency	550151		I10 SR8	29,853	SR61(Thomasville Rd)	2009		4/1/2013	98	86.81	
Northwest Florida	Leon	State Highway Agency	550152		I10 SR8	8,100	SR61	2009		4/8/2013	98	89.65	
Northwest Florida	Leon	State Highway Agency	550154		I10 SR8	8,100	I10 WB On Ramp	2008		4/8/2013	98	87.00	
Northwest Florida	Leon	State Highway Agency	550164		I10 SR8	12,750	Branch	1973		11/18/2014	83	43.81	
Northwest Florida	Leon	State Highway Agency	550165		SR363	4,200	St. Augustine Branch	2011		5/5/2014	99.1	87.95	
Northwest Florida	Leon	State Highway Agency	550171	St. Marks Trail	SR373	19,500	St. Marks Trail	2014		7/17/2014	93.5	99.54	
Northwest Florida	Leon	State Park, Forest or Reservation	550801		Turkey Flat Road	25	GW Creek	2003		8/20/2013	66.7	75.26	FO
Northwest Florida	Leon	State Park, Forest or Reservation	550802		Old Cemetery Road	25	Megan Creek	2003		8/20/2013	66.7	71.97	FO
Northwest Florida	Leon	State Park, Forest or Reservation	550803		Beaver Dam Road	25	Beaver Dam Creek	2005		9/18/2014	58.1	59.02	
Northwest Florida	Leon	Other State Agency	550804		Pat Thomas Blvd.	1,000	Drianage Ditch	1995		8/20/2014	97.9	86.92	
Northwest Florida	Leon	State Highway Agency	550910		US319 SR61	5,398	Foshalee Slu	1963		2/20/2014	99.2	68.54	
Northwest Florida	Leon	State Highway Agency	550941		SR61, S Monroe St.	19,000	Bloxham Street	1958		2/13/2014	77.2	78.12	FO
Northwest Florida	Leon	County Highway Agency	554001		Natural Bridge Rd	2,200	Branch of St Marks River	1938		10/29/2014	60.8	67.74	FO
Northwest Florida	Leon	County Highway Agency	554005		Capitola Road	5,900	Unnamed Stream	1938	1980	3/31/2014	78.8	74.34	
Northwest Florida	Leon	County Highway Agency	554011		Gum Road	550	Unnamed Branch	1960		4/2/2013	99.3	62.69	
Northwest Florida	Leon	County Highway Agency	554012		Aeon Church Road	165	Bradford Brook	1958		8/12/2014	98	63.67	
Northwest Florida	Leon	County Highway Agency	554014		Joe Thomas Road W	66	Harvey Creek	1948		5/28/2014	84.1	76.20	
Northwest Florida	Leon	County Highway Agency	554025		Tram Road	3,400	Gum Creek	1979		3/31/2014	77.4	55.19	
Northwest Florida	Leon	County Highway Agency	554026		Tram Road	3,400	Shepherd Branch	1981		3/31/2014	96.4	93.96	
Northwest Florida	Leon	County Highway Agency	554027		Silver Lake Road	4,700	Unnamed Branch	1970		8/12/2014	86.1	58.74	
Northwest Florida	Leon	City or Municipal Highway Agency	554031		Centerville Road	11,000	Ditch	1982		2/21/2013	97.5	71.20	
Northwest Florida	Leon	County Highway Agency	554033		Capitola Road	5,100	Unnamed Branch	1992		7/16/2013	96.2	99.13	
Northwest Florida	Leon	County Highway Agency	554034		Capitola Road	5,300	Still Creek	1992		7/22/2014	93.7	99.57	
Northwest Florida	Leon	County Highway Agency	554035		Capitola Road	5,300	Still Creek	1992		7/22/2014	93.7	84.48	
Northwest Florida	Leon	County Highway Agency	554036		CR 1541	110	Unnamed Branch	1992		7/16/2013	99	99.98	
Northwest Florida	Leon	County Highway Agency	554050		CR 12	800	Ochlockonee River Relief	1993		11/13/2013	99.4	86.03	
Northwest Florida	Leon	County Highway Agency	554143		CR 151	11,000	Branch of Lake Killarney	1997		3/26/2013	94.2	99.64	
Northwest Florida	Leon	County Highway Agency	554146		CR 2203	3,300	Fisher Creek	2003		7/24/2013	98.5	88.27	
Northwest Florida	Leon	City or Municipal Highway Agency	555010		Stearns Street	660	Unnamed Branch	1960		7/29/2014	81.5	73.01	
Northwest Florida	Leon	City or Municipal Highway Agency	555011		Jackson Bluff Road	12,500	Ditch	1975		3/11/2014	79.7	84.24	
Northwest Florida	Leon	City or Municipal Highway Agency	555020		Airport Drive	1,122	Ditch	1979		3/18/2014	85.8	72.78	
Northwest Florida	Leon	City or Municipal Highway Agency	555021		Bragg Drive	1,006	Master Drain Ditch	1980		4/1/2014	99.8	82.06	
Northwest Florida	Leon	City or Municipal Highway Agency	555022		Wahnish Way Road	1,379	Drainage Ditch	1980		4/1/2014	94.9	62.14	
Northwest Florida	Leon	City or Municipal Highway Agency	555024		Kissimmee Street	1,300	Drainage Ditch	1987		2/27/2014	84.5	90.39	
Northwest Florida	Leon	City or Municipal Highway Agency	555025		Park Avenue	11,000	Scl Railroad	1990		8/27/2014	94.3	85.79	
Northwest Florida	Leon	City or Municipal Highway Agency	555027		Texas Street	440	Drainage Canal	1988		3/17/2014	96.1	90.38	
Northwest Florida	Leon	City or Municipal Highway Agency	555128	MERIDIAN STREET BRIDGE	Meridian Street	1,650	Drainage Ditch	1994		11/13/2013	99.8	93.63	
Northwest Florida	Leon	City or Municipal Highway Agency	555129		Mabry Street	5,000	Canal	1995		2/19/2013	99.3	96.76	
Northwest Florida	Leon	City or Municipal Highway Agency	555130		Roberts Avenue	9,735	Unnamed Branch	1995		6/3/2013	97.5	87.92	

Natural Bridge Road - Bridge Detour Map

