COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY PROJECT NUMBER 2017-3
SW Callahan Avenue – Roadway Construction

NOTICE TO CONTRACTORS

Notice is hereby given that sealed bids will be received in the Columbia County Manager's office until 11:00 A.M. on Oct. 5, 2017, for Columbia County Project No. 2017-3 This office is located on the second floor of the Courthouse Annex at 135 Hernando Avenue, Room 203 Lake City FL 32055.

This project consists of 4' widening and resurfacing on SW Callahan Avenue for 0.36 miles and ending at SR 247. This will also include the construction of a 5' sidewalk, signalized crosswalk, storm sewer system, stormwater management facility, and the resurfacing of SW Crossbow Place.

Scope of work includes clearing and grubbing, asphaltic concrete (structural and surface), widening, stabilizing, limerock base, driveway improvements, culverts, stormwater management facility, storm sewer system, sidewalk, signalized crosswalk, grassing, erosion control, and incidental items.

The Bid Forms and Construction specifications may be obtained from the County's web site at http://www.columbiacountyfla.com/PurchasingBids.asp. Deadline for questions regarding specifications and/or bid documents must be received before 11:00 A.M. on Sept. 21, 2017.

The successful bidder will be required to furnish a 5% bid bond with bid submittal, and if selected, furnish the County Manager with a performance bond, and proof liability insurance prior to commencing work.

The Columbia County Commission reserves the right to reject any or all bids and to add to the contract or delete from the contract to stay within their funding capabilities.

Columbia County Board of County Commissioners

_____

Ronald Williams, Chairman

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY PROJECT NUMBER 2017-3
SW Callahan Avenue – Roadway Construction

Gentlemen:

The undersigned, as bidder, hereby declares that he has examined the contract documents and informed himself fully in regard to all conditions pertaining to the work to be done; that he has examined the specifications for the work and other contract documents relative thereto; and that he has satisfied himself relative to the work to be performed.

The bidder agrees, if this bid is accepted, to contract with the Columbia County Board of County Commissioners to furnish everything necessary to complete the work covered by this bid and other contract documents for the Columbia County Board of County Commissioners. The Contractor assumes full responsibility for all quantities used in his/her bid. The contractor shall coordinate his construction with all proposed utilities on the site.

SW CALLAHAN AVE

Pay Item No.	Pay Item Description	Quantity	Units	Unit Price	Total Cost
0101 1	Mobilization	1	LS		
0102 1	Maintenance of Traffic	1	LS		
0104 10 3	Sediment Barrier	3,455	LF		
0102 3	Commercial Material For Temporary Driveway Maintenance	20	CY		
0104 18	Inlet Protection System	11	EA		
0110 1 1	Clearing & Grubbing	8	AC		
0120 4	Subsoil Excavation	642	CY		
0120 71	Regular Excavation (3-R Projects Only)	1	LS		
0160 4	Type B Stabilization	1,412	SY		
0285706	Optional Base, Base Group 06	974	SY		
0286 1	Turnout Construction	514	SY		
0327 70 1	Milling Exist Asph Pavt, 1" Avg Depth	1,693	SY		
0334 1 12	Superpave Asphaltic Conc, Traffic B	1,004	TN		
0425 1341	Inlets, Curb, Type P-4, <10'	5	EA		
0425 1521	Inlets, DT Bot, Type C, <10'	5	EA		
0430174118	Pipe Culvert, Optional Material, Round, 18" SD	24	LF		
0430175115	Pipe Culvert, Concrete, Round, 15"S/CD	5	LF		
0430175118	Pipe Culvert, Concrete, Round, 18"S/CD	480	LF		
0430175124	Pipe Culvert Concrete, Round, 24"S/CD	778	LF		
0430982129	Mitered End Section, Concrete, Round, 24" CD	2	EA		
0430984125	Mitered End Section, Optional Round, 18" SD	2	EA		
0520 1 7	Concrete Curb & Gutter, Type E	103	LF		
0520 1 10	Concrete Curb & Gutter, Type F	1,337	LF		
0522 1	Sidewalk Concrete, 4" Thick	1,053	SY		
0522 2	Sidewalk Concrete, 6" Thick	23	SY		

CONTRACTOR SIGNATURE_____

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY PROJECT NUMBER 2017-3
SW Callahan Avenue – Roadway Construction

0527 2	Detectable Warnings	76	SF		
0530 3 4	Riprap, Rubble, F&I, Ditch Lining	13	TN		
0546 71	Rumble Strips	4	PS		
0570 1 1	Performance Turf	23,373	SY		
0570 1 2	Performance Turf, Sod	11,007	SY		
0630 2 11	Conduit, Furnish & Install, Open Trench	144	LF		
0630 2 12	Conduit, Furnish & Install, Directional Bore	103	LF		
0632 7 1	Signal Cable (New or Reconstructed Intersection), F&I	1	PI		
0635 2 11	Pull & Splice Box, F&I, 13" x 24" Cover Size	4	EA		
0646 1 11	Aluminum Signals Pole, Pedestal	3	EA		
0653 1 11	Pedestrian Signal, Furnish & Install LED Countdown, 1 Way	2	AS		
0653 1 12	Pedestrian Signal, Furnish & Install LED Countdown, 2 Ways	1	AS		
0660 2106	Loop Assembly, F&I, Type F	3	AS		
0665 1 11	Pedestrian Detector, Furnish & Install, Standard	4	EA		
0700 1 11	Single Post Sign, F&I Ground Mount, Up To 12 SF	7	AS		
0700 1 50	Single Post Sign, Relocate	2	AS		
0706 3	Retro-Reflective Pavement Markers	160	EA		
0710 90	Painted Pavement Markings, Final Surface	1	LS		
0711 17	Thermoplastic, Remove	380	SF		
9999999990	Pipe Culvert, Optional Material, Round, 10"SD	150	LF		
9999999991	Mitered End Section, Optional Round, 10" SD	10	EA		
			GRAND TOTAL		

CONTRACTOR SIGNATURE_____

ADDENDA	
NUMBER	DATE SENT

BID TOTAL FOR SW CALLAHAN AVE. CONSTRUCTION

COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY PROJECT NUMBER 2017-3
SW Callahan Avenue – Roadway Construction

ALL ITEMS MAY BE INCREASED, DECREASED, OR OMITTED AS DIRECTED BY THE ENGINEER.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO BOTH THE REQUIREMENTS OF THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST FDOT DESIGN STANDARDS.

ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS
ALL UNIT PRICE AND TOTAL SPACES MUST BE FILLED IN TO CORRELATE WITH EACH ITEM

Note: contractors shall be in compliance with chapter 489, Florida statutes, licensure requirements.

Florida construction industries licensing board certification.

_____ (name of holder)

_____ (certificate no.)

In witness whereof, the bidder has hereunto set his signature and affixed his seal this _____ day of _____ , A.D. 20 _____

_____ (seal)

By: _____

Title: _____

Type or print name of firm: _____

Address: _____

Contact person: _____ Telephone No.: _____

Fax no.: _____

General Requirements

I. General.

This project consists of 4' widening and resurfacing on SW Callahan Avenue for 0.36 miles and ending at SR 247. This will also include the construction of a 5' sidewalk, signalized crosswalk, storm sewer system, stormwater management facility, and the resurfacing of SW Crossbow Place.

II. Contract Time

The contract time shall be 199 days from the date of contract execution. The contractor will be required to return executed contract to Ray Hill, Columbia County purchasing director and Chad Williams, Columbia County Engineer, within 14 days of Board approval. Time can be extended by mutual agreement of both parties. Liquidated damages shall be $300.00 per day. No work is allowed on Saturdays, Sundays, and/or County designated holidays.

Underground utility lines will require adjustment. Contractor will coordinate with utility company. Once clearing and grubbing is complete, contractor may experience a delay up to 2 weeks for utility relocates.

Contractor shall provide a construction schedule with the bid package detailing time frames/lines showing how the project will be constructed. The schedule will be taken into consideration in the bid review process and bids submitted without the schedule could be reason for a bid to not receive full consideration.

III. Construction and Materials

All construction methods and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards and Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

IV. Maintenance of Traffic

Contractor shall provide Maintenance of Traffic and it shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards.

Flagging will be required and only one traffic lane may be closed between the hours of 8:30 A.M. to 4:30 P.M. only.

All construction signage shall be provided by the contractor.

V. Compensation

Payment shall be made on a monthly basis on work completed with 10% retainage.

Purchasing Department – General Instructions to Bidders

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:

    A. The ability, capacity and skill of bidder to perform required service.
    B. Whether the bidder can perform service promptly or within specified time.
    C. The character, integrity, reputation, judgment, experience and efficiency of bidder.
    D. The performance of previous contracts with Columbia County.
    E. The suitability of equipment or material or county use.
    F. The ability of bidder to provide future maintenance

2. Payment Terms are net (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.

3. All bids should be tabulated, totaled and checked for accuracy. All blanks on Bid Proposal sheet shall be filled in and unit price will prevail in case of errors.

4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.

5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.

6. A bidders list is available at the Purchasing Office.

7. Quote all prices F.O.B. our warehouse or as specified in bid documents.

8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.

9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.

10. If only one (1) bid is received, the bid may be rejected and re-advertised or excepted if determined to be in the counties best interest.

11. Bids received late will not be accepted, and the County will not be responsible for late mail delivery.

12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids). Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.

13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds $40,000.

14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and the County Manager that he has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.

15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).

16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.

17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.

18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.

19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.

20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all

equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.

21. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.

22. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove, or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor release him from his obligation to perform and deliver to the County Sound and satisfactory materials, equipment, or supplies. The Contractor agrees to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.

23. Unless otherwise specified by the Purchasing Department all materials, supplies, or equipment quoted herein must be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.

24. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, the fulfillment or guarantee, or the time consumed in completing the work.

25. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.

26. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Manager.

27. Unless otherwise specified the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.

28. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.

29. Failure of the bidder to sign the bid or have the signature of an authorized representative or agent on the bid proposal in the space provided will be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures will not be acceptable.

30. Any bidder may withdraw his bid at any time before the time set for the opening of the bids. No bid may be withdrawn in the thirty- (30) day period after bids are opened.

31. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his designee shall have the power to notify the aforesaid contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Director, he shall thereupon have the power to take whatever action he may deem necessary to complete the work or delivery herein described, or any part thereof, and the expense thereof, so charged, shall be deducted from any paid by the County out of such monies as may become due to the said contractor, under and by virtue of this agreement. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or his designee of the excess due.

32. If the bidder proposes to furnish any item of foreign make or product, he shall write “foreign” together with the name of the originating country opposite such item on a proposal.

33. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; otherwise, the bidder waives any such complaint.

34. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.

35. All contractors submitting bids for road projects in excess of $150,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification upon request.

36. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of

intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.

37. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.

38. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

    A. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and

    B. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work is pursuant to the contract with the County.

39. Contractor shall register online at http://www.columbiacountyfla.com/PurchasingBids.asp for this specific project. All addendums are delivered via email through this website, and it is the contractor's responsibility to ensure all addendums are used in the bid submittal.

40. Any existing materials demolished within county right of way may be retained by Columbia County.

CONSTRUCTION AGREEMENT

COLUMBIA COUNTY, a political subdivision of the State of Florida, by and through its Board of County Commissioners, situated at 135 NE Hernando Avenue, Suite 203, Lake City, Florida 32056-1529 (the "County"), hereby contracts with ____. _ (the "Contractor") of ____ _ (address) a contractor licensed to perform all work in the State of Florida in connection with the County's Project No.__ (the "Project"), as said work is set forth in the Plans and Specifications and other Contract Documents hereafter specified (the "Work"). The designated Engineer for the Project and the Work, as referenced in this Agreement, shall be

The County and the Contractor, for the consideration herein set forth, agree as follows:

Section 1. Contract Documents

The Contract Documents consist of this Agreement, the Exhibits described in Section 4 hereof, the Legal Advertisement, the Instructions to Bidders, the Proposal and any duly executed and issued addenda, Change Orders, Work Directive Changes, Field Orders, Work Authorizations and amendments relating thereto. All of the foregoing Contract Documents are incorporated by reference and made a part of this Agreement (all of said documents including the Agreement sometimes being referred to herein as the "Contract Documents" and sometimes as the "Agreement"). A copy of the Contract Documents shall be maintained by Contractor at the Project site at all times during the performance of the Work.

Section 2. Scope of Work

The Contractor agrees to furnish and pay for all management, supervision, financing, labor, materials, tools, fuel, supplies, utilities, equipment and services of every kind and type necessary to diligently, timely, and fully perform and complete in a good and workmanlike manner the Work required by this Agreement.

Section 3. Contract Amount

In consideration of the faithful performance by the Contractor of the covenants in this Agreement to the full satisfaction and acceptance of the County, the County agrees to pay, or cause to be paid, to Contractor the following amount (herein "Contract Amount"), in accordance with the terms of this Agreement: .

[INSERT SCHEDULE OF UNIT PRICES AS APPLICABLE]

Section 4. Exhibits Incorporated

The following documents are expressly agreed to be incorporated by reference and made a part of this Agreement:

A. Legal Advertisement
B. Invitation to Bid
C. Bid Proposal with required forms
D. Performance Bond
E. Public Payment Bond
F. Insurance Requirements, including certificates of insurance
G. Form of Release and Affidavit
H. Change Order Form
I. Notice of Award
J. Notice to Proceed Form
K. Application for Payment Form
L. Special Conditions, if any
M. Project Plans
N. 2017 FDOT Standard Specifications for Road and Bridge Construction

Section 5. Bonds

A. The Contractor shall provide Performance and Payment Bonds, in the form prescribed in the Exhibits to the Agreement, in the amount of 100% of the Contract Amount, the costs of which are to be paid by Contractor. The Performance and Payment Bonds shall be underwritten by a surety authorized to do business in the State of Florida and otherwise acceptable to the County; provided, however, the surety shall be rated as "A-" or better as to general policy holders rating and Class V or higher rating as to financial size category and the amount required shall not exceed 5% of the reported policyholders surplus, all as reported in the most current Best Key Rating Guide, published by A.M. Best Company, Inc. of 75 Fulton Street, New York, New York 10038.

B. If the surety for any bond furnished by Contractor is declared bankrupt, becomes insolvent, its right to do business is terminated in the State of Florida, or it ceases to meet the requirements imposed by the Contract Documents, the Contractor shall, within five (5) calendar days thereafter, substitute another bond and surety, both of which shall be subject to the County's approval.

Section 6. Contract Time and Liquidated Damages

A. Time is of the essence in the performance of the Work under this Agreement. The "Commencement Date" shall be established in the Notice to Proceed to be issued by the County. The Contractor shall commence the Work within five (5) calendar days from the Commencement Date. No Work shall be performed at the Project site prior to the Commencement Date. Any Work performed by the Contractor prior to the Commencement Date shall be at the sole risk of the

Contractor. The Work shall be substantially completed within calendar days from the Commencement Date. The date of substantial completion of the Work (or designated portions thereof) is the date certified by the Engineer when construction is sufficiently complete, in accordance with the Contract Documents, so the County can occupy or utilize the Work (or designated portions thereof) for the use for which it is intended. The Work shall be fully completed and ready for final acceptance by the County within ___ calendar days from the Commencement Date (herein "Contract Time").

B. The County and the Contractor recognize that, since time is of the essence for this Agreement, the County will suffer financial loss if the Work is not substantially completed within the time specified above, as said time may be adjusted as provided for herein. Should the Contractor fail to substantially complete the Work within the time period noted above, the County shall be entitled to assess, as liquidated damages, but not as a penalty, **$ [USE FDOT Schedule of LD's based upon Project $ Value**[1] for each calendar day thereafter until substantial completion is achieved. The Project shall be deemed to be substantially completed on the date the Engineer issues a Substantial Completion Certificate pursuant to the terms hereof. The Contractor hereby expressly waives and relinquishes any right which it may have to seek to characterize the above noted liquidated damages as a penalty, which the parties agree represents a fair and reasonable estimate of the County's actual damages at the time of contracting if the Contractor fails to substantially complete the Work in a timely manner.

C. When any period of time is referenced by days herein, it shall be computed to exclude the first day and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day shall be omitted from the computation, and the last day shall become the next succeeding day which is not a Saturday, Sunday or legal holiday.

Section 7. Intent of Contract Documents and Contractor Representations

A. It is the intent of the Contract Documents to describe a functionally complete project (or portion thereof) to be constructed in accordance with the Contract Documents. Any work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words which have a well known technical or trade meaning are used to describe work, materials or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association or to the laws or regulations of any governmental authority having jurisdiction over the Project, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the Work is performed, except as may be otherwise specifically stated herein.

---

[1] The Liquidated Damages have been valued based upon the Florida Department of Transportation's Standard Specifications for Road and Bridge Construction, published **July 2017**.

B. If before or during the performance of the Work, Contractor discovers a conflict, error or discrepancy in the Contract Documents, Contractor immediately shall report same to Engineer in writing and before proceeding with the Work affected thereby shall obtain a written interpretation or clarification from the Engineer. Contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to Contractor with the Contract Documents before commencing any portion of the Work.

C. Drawings are intended to show general arrangements, design and extent of Work and are not intended to serve as shop drawings. Specifications are separated into divisions for convenience of reference only and shall not be interpreted as establishing divisions for the Work, trades, subcontracts, or extent of any part of the Work. In the event of a discrepancy between or among the drawings, specifications or other Contract Document provisions, Contractor shall be required to comply with the provision which is the more restrictive or stringent requirement upon the Contractor, as determined by the Engineer.

D. In order to induce Owner to enter into this Agreement Contractor makes the following representations:

D.1 Contractor has examined and carefully studied the Contract Documents (including those listed in Section 4) and the other related data identified in the Project Documents including "technical data."

D.2 Contractor has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, performance or furnishing of the Work.

D.3 Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

D.4 Contractor has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site. Contractor acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to Underground Facilities at or contiguous to the site. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance, or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor and safety precautions, and

programs incident thereto. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the performance and furnishing of the Work at the Contract Price, within the Contract Times and in accordance with the other terms and conditions of the Contract Documents.

D.5 Contractor is aware of the general nature of work to be performed by Owner and others at the site that relates to the Work as indicated in the Contract Documents.

D.6. Contractor has correlated the information known to Contractor, information and observation obtained from visits to the site, reports, and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

D.7. Contractor has given Engineer written notice of all conflicts, errors, ambiguities or discrepancies that Contractor has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Contractor, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

Section 8. Investigation and Utilities

A. Contractor shall have the sole responsibility of satisfying itself concerning the nature and location of the Work and the general and local conditions, and particularly, but without limitation, with respect to the following: those affecting transportation, access, disposal, handling and storage of materials; availability and quality of labor; water and electric power; availability and condition of roads; work area; living facilities; climatic conditions and seasons; physical conditions at the work-site and the project area as a whole; topography and ground surface conditions; nature and quantity of the surface materials to be encountered; subsurface conditions; equipment and facilities needed preliminary to and during performance of the Work; and all other costs associated with such performance. The failure of Contractor to acquaint itself with any applicable conditions shall not relieve Contractor from any of its responsibilities to perform under the Contract Documents, nor shall it be considered the basis for any claim for additional time or compensation.

B. Contractor shall locate all existing roadways, railways, drainage facilities and utility services above, upon, or under the Project site, said roadways, railways, drainage facilities and utilities being referred to in this Sub-Section 8.B. as the "Utilities". Contractor shall contact the owners of all Utilities to determine the necessity for relocating or temporarily interrupting any Utilities during the construction of the Project. Contractor shall schedule and coordinate its Work around any such relocation or temporary service interruption. Contractor shall be responsible for properly shoring, supporting and protecting all Utilities at all times during the course of the Work.

Section 9. Schedule

A. The Contractor, within ten (10) calendar days after receipt of a Notice of Award, shall prepare and submit to the County and Engineer, for their review and approval, a progress schedule for the Project (herein "Progress Schedule"). The Progress Schedule shall relate to all Work required by the Contract Documents and shall: show the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the Project within the Contract Time; show the order and interdependence of activities and the sequence for accomplishing the Work and describe all activities in sufficient detail so that the Engineer can readily identify the work and measure the progress of each activity; show each activity with a beginning work date, a duration, and a monetary value; include activities for procurement fabrication, and delivery of materials, plant, and equipment, and review time for shop drawings and submittals; include milestone activities when milestones are required by the Contract Documents; and in a Project with more than one phase, adequately identify each phase and its completion date, and not allow activities to span more than one phase. The Contractor shall also submit a working plan with the Progress Schedule, consisting of a concise written description of the construction plan.

B. The Engineer will return inadequate schedules to the Contractor for corrections and Contractor shall resubmit a corrected schedule within five (5) calendar days from the date of the Engineer's return transmittal. The Engineer will use the accepted Project Schedule as the baseline against which to measure the progress. However, by acceptance of the Project Schedule, the Engineer does not endorse or otherwise certify the validity or accuracy of the activity durations or sequencing of activities.

B. The Progress Schedule shall be updated by the Contractor if there is a significant change in the planned order or duration of an activity or upon the request of the Engineer, which shall not be requested more than [INSERT TIMES] a month. All updates to the Progress Schedule shall be subject to the County's and Engineer's review and approval. The Engineer's review and approval of submitted the Progress Schedule and any required or requested updates shall be a condition precedent to the County's obligation to pay the Contractor.

Section 10. Progress Payments

A. Prior to submitting its first Application for Payment, Contractor shall submit to the County and the Engineer, for their review and approval, a schedule of values based upon the Contract Price, listing the major elements of the Work and the dollar value for each element. After its approval by the County and Engineer, this schedule of values shall be used as the basis for the Contractor's monthly Applications for Payment. This schedule shall be updated and submitted each month to the Engineer along with a completed and notarized copy of the Application for Payment form.

B. Prior to submitting its first Application for Payment, Contractor shall submit to the Engineer a complete list of all its proposed subcontractors and materialmen. The first Application for Payment shall be submitted no earlier than thirty (30) days after the Commencement Date.

C. If payment is requested on the basis of materials and equipment not incorporated into the Project, but delivered and suitably stored at the site or at another location agreed to by the County in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice or other documentation warranting that the County has received the materials and equipment free and clear of all liens, charges, security interests and encumbrances, together with evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect the County's interest therein, all of which shall be subject to the County's satisfaction.

D. Contractor shall submit its monthly Application for Payment to the Engineer on or before the 25th day of each month for work performed during the previous month. Invoices received after the 25th day of each month shall be considered for payment as part of the next month's application. Within ten (10) calendar days after receipt of each Application for Payment, the Engineer shall either:

D.1 indicate his approval of the requested payment;

D.2 indicate his approval of only a portion of the requested payment, stating in writing his reasons therefore; or

D.3 return the Application for Payment to the Contractor indicating, in writing, the reason for refusing to approve payment.

In the event of a total denial and return of the Application for Payment by the Engineer, the Contractor may make the necessary corrections and resubmit the Application for Payment. The County shall, within thirty (30) calendar days after County approval of an Application for Payment, pay the Contractor the amounts so approved. Provided, however, in no event shall the County be obligated to pay any amount greater than that portion of the Application for Payment approved by the Engineer.

E. The County shall retain ten percent (10%) of the gross amount of each monthly payment request or ten percent (10%) of the portion thereof approved by the Engineer for payment, whichever is less. After fifty percent (50%) of the services are completed, the County will reduce the retainage to five percent (5%) of each subsequent progress payment. Such sums shall be accumulated and released to Contractor with final payment.

F. Monthly payments to Contractor shall in no way imply approval or acceptance of Contractor’s work.

G. Each Application for Payment shall be accompanied by a Release and Affidavit, in the form attached to this Agreement, showing that all materials, labor, equipment and other bills associated with that portion of the Work for which payment is being requested have been paid in full.

The County shall not be required to make payment until and unless these affidavits are furnished by the Contractor.

H. The County reserves the right to issue joint checks to Contractor and its material suppliers, subcontractors, labor unions, equipment suppliers, etc., if, in the County's sole judgment, it is necessary to do so to ensure payment to the above named parties or if above named parties have filed a notice of nonpayment, lien or intent to lien, stop notice, etc.

Section 11. Payments Withheld

A. The Engineer or the County may decline to approve any Application for Payment, or portions thereof, because of subsequently discovered evidence or subsequent inspections. The Engineer or the County may nullify the whole or any part of any approval for payment previously issued and the County may withhold any payments otherwise due Contractor under this Agreement or any other agreement between the County and Contractor, to such extent as may be necessary in the County's opinion to protect it from loss because of:

A.1 Defective Work not remedied;

A.2 Third party claims filed or reasonable evidence indicating probable filing of such claims;

A.3 Failure of Contractor to make payment properly to subcontractors or for labor, materials or equipment;

A.4 Reasonable doubt that the Work can be completed for the unpaid balance of the Contract Amount;

A.5 Reasonable indication that the Work will not be completed within the Contract Time;

A.6 Unsatisfactory prosecution of the Work by the Contractor;

A.7 Failure to provide accurate and current "As-Builts"; or

A.8 Any other material breach of the Contract Documents.

B. If these conditions in Subsection 11.A are not remedied or removed, the County may, after three (3) days written notice, rectify the same at Contractor's expense. The County also may offset against any sums due Contractor the amount of any liquidated or unliquidated obligations of Contractor to the County, whether relating to or arising out of this Agreement or any other agreement between Contractor and the County.

Section 12. Final Payment

A. The County shall make final payment to Contractor within thirty (30) calendar days after the Work is finally inspected and accepted by both the County and the Engineer in accordance with Section 25.B. herein, provided that Contractor first, and as an explicit condition precedent to the accrual of Contractor's right to final payment, shall have furnished the County with a properly executed and notarized copy of the Release and Affidavit, as well as, a duly executed copy of the Surety's consent to final payment and such other documentation that may be required by the Contract Documents and the County.

B. Contractor's acceptance of final payment shall constitute a full waiver of any and all claims by Contractor against the County arising out of this Agreement or otherwise relating to the Project, except those previously made in writing and identified by parties as unsettled at the time of the final Application for Payment. Neither the acceptance of the Work nor payment by the County shall be deemed to be a waiver of the County's right to enforce any obligations of Contractor hereunder or to the recovery of damages for defective Work not discovered by the Engineer or the County at the time of final inspection.

Section 13. Submittals and Substitutions

A. Contractor shall carefully examine the Contract Documents for all requirements for approval of materials to be submitted such as a schedule of values, safety manual, shop drawings, data, test results, schedules and samples. Contractor shall submit all such materials at its own expense and in such form as required by the Contract Documents in sufficient time to prevent any delay in the delivery of such materials and the installation thereof.

B. Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by the County if sufficient information is submitted by Contractor to allow the County to determine that the material or equipment proposed is equivalent or better than to that named. Requests for review of substitute items of material and equipment will not be accepted by the County from anyone other than Contractor and all such requests must be submitted by Contractor to Engineer within thirty (30) calendar days after Notice of Award is received by Contractor.

C. If Contractor wishes to furnish or use a substitute item of material or equipment, Contractor shall make application to the Engineer for acceptance thereof, certifying that the proposed substitute shall perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice Contractor's achievement of substantial completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract

Documents (or in the provisions of any other direct contract with the County for the Project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service shall be indicated. The application also shall contain an itemized estimate of all costs that will result, directly or indirectly, from acceptance of such substitute, including costs for redesign and claims of other contractors affected by the resulting change, all of which shall be considered by the Engineer in evaluating the proposed substitute. The Engineer may require Contractor to furnish at Contractor's expense additional data about the proposed substitute.

D. If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Engineer, if Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedures for submission to and review by the Engineer shall be the same as those provided herein for substitute materials and equipment.

E. The Engineer shall be allowed a reasonable time within which to evaluate each proposed substitute. The Engineer shall be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without the Engineer's prior written acceptance which shall be evidenced by either a Change Order or an approved Shop Drawing. The County may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

Section 14. Daily Reports, As-Builts and Meetings

A. Unless waived in writing by the County, Contractor shall complete, maintain, and submit to Engineer on a __**Weekly**___ basis a daily log of the Contractor's work in a format approved by the Engineer. The daily log shall document all activities of Contractor at the Project site including, but not limited to, the following:

A.1. Weather conditions showing the high and low temperatures during work hours, the amount of precipitation received on the Project site, and any other weather conditions which adversely affect the Work;

A.2. Any Conditions which adversely affect the Work;

A.3. The hours of operation by Contractor's and subcontractor's personnel;

A.4. The number of Contractor's and subcontractor's personnel present and working at the Project site, by subcontract and trade;

A5. All equipment present at the Project site, description of equipment use and designation of time equipment was used (specifically indicating any down time);

A.6. Description of Work being performed at the Project site;

A.7. Any unusual or special occurrences at the Project site;

A.8. Materials received at the Project site;

A.9. A list of all visitors to the Project site; and

A.10. Any problems that might impact either the cost or quality of the Work or the time of performance.

The daily log shall not constitute nor take the place of any notice required to be given by Contractor to the County or Engineer pursuant to the Contract Documents.

B. Contractor shall maintain in a safe place at the Project site one record copy of the Contract Documents, including, but not limited to, all drawings, specifications, addenda, amendments, Change Orders, Work Directive Changes and Field Orders, as well as all written interpretations and clarifications issued by the Engineer, in good order and annotated to show all changes made during construction. The annotated drawings shall be continuously updated by the Contractor throughout the prosecution of the Work to accurately reflect all field changes that are made to adapt the Work to field conditions, changes resulting from Change Orders, Work Directive Changes and Field Orders, and all concealed and buried installations of piping, conduit and utility services. All buried and concealed items, both inside and outside the Project site, shall be accurately located on the annotated drawings as to depth and in relationship to not less than two (2) permanent features (e.g. interior or exterior wall faces). The annotated drawings shall be clean and all changes, corrections and dimensions shall be given in a neat and legible manner in a contrasting color. The "As-Built" record documents, together with all approved samples and a counterpart of all approved shop drawings shall be available to Engineer for reference. Current and accurate "As-Built" record documents shall be submitted with each Application for Payment. Failure to provide current and accurate "As-Built" record drawings shall be reason for rejecting the Application for Payment. Upon completion of the Work and as a condition precedent to Contractor's entitlement to final payment, these "As-Built" record documents, samples and shop drawings shall be delivered to Engineer by Contractor for the County.

C. Contractor shall keep all records and supporting documentation which concern or relate to the Work hereunder for a minimum of five (5) years from the date of termination of this Agreement or the date the Project is completed, whichever is later. The County, or any duly authorized agents or representatives of the County, shall have the right to audit, inspect and copy all such records and documentation as often as they deem necessary during the period of this Agreement

and during the five (5) year period noted above; provided, however, such activity shall be conducted only during normal business hours.

D. In addition to other requirements provided herein, Contractor shall:

D.1. Keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the Work.

D.2. Provide the public with access to public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

D.3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

D.4. Meet all requirements for retaining public records and transfer, at no cost, to the County all public records in possession of the Contractor upon termination of the Contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County.

D.5. If the Contractor does not comply with a public records request, the County may terminate this Contract in accordance with Section 23 hereof.

Section 15. Independent Contractor

Contractor is an independent contractor and shall, at its sole cost and expense and without increase in the contract price, comply with all laws, rules, ordinances, and regulations of all governing bodies having jurisdiction over the Work. Contractor shall be responsible for securing timely inspections and approvals of its work from all such authorities and as required by the Contract Documents. Contractor shall obtain and pay for all necessary permits and licenses, including business licenses; pay all fees, manufacturer's taxes, sales taxes, use taxes, processing taxes, and all federal and state taxes, insurance and contributions for social security and unemployment or disability insurance, which are measured by wages, salaries, or other remunerations paid to Contractor's employees, whether levied under existing or subsequently enacted laws, rules, or regulations. Contractor shall maintain proof that it has complied with all aspects of the foregoing provision and shall make such proof available for review by the County at County's request.

Section 16. Contractor Performance, Extensions, and No Damages for Delay of Work

A. Contractor shall diligently pursue the completion of the Work and coordinate the Work being done on the Project by its subcontractors and materialmen, as well as coordinating its Work with all work of others at the Project Site, so that its Work or the work of others shall not be delayed or impaired by any act or omission by Contractor. Contractor shall be solely responsible for all construction means, methods, techniques, sequences, and procedures, as well as coordination of all portions of the Work under the Contract Documents.

B. Should Contractor be obstructed or delayed in the prosecution of or completion of the Work as a result of unforeseeable causes beyond the control of Contractor, and not due to its fault or neglect, including but not restricted to acts of God or of the public enemy, acts of government, fires, floods, epidemics, quarantine regulation, strikes or lockouts, Contractor shall notify the County in writing within forty-eight (48) hours after the commencement of such delay, stating the cause or causes thereof, or be deemed to have waived any right which Contractor may have had to request a time extension.

C. No interruption, interference, inefficiency, suspension or delay in the commencement or progress of the Work from any cause whatever, including those for which the County may be responsible, in whole or in part, shall relieve Contractor of his duty to perform or give rise to any right to damages or additional compensation from the County. Contractor expressly acknowledges and agrees that it shall receive no damages for delay. Contractor's sole remedy, if any, against the County will be the right to seek an extension to the Contract Time; provided, however, the granting of any such time extension shall not be a condition precedent to the aforementioned "No Damage For Delay" provision. This paragraph shall expressly apply to claims for early completion, as well as to claims based on late completion.

Section 17. Changes in the Work

A. The County shall have the right at any time during the progress of the Work to increase or decrease the Work. Promptly after being notified of a change, Contractor shall submit an itemized estimate of any cost or time increases or savings it foresees as a result of the change. Except in an emergency endangering life or property, or as expressly set forth herein, no addition or changes to the Work shall be made except upon written order of the County, and the County shall not be liable to the Contractor for any increased compensation without such written order. No officer, employee or agent of the County is authorized to direct any extra or changed work orally.

B. A Change Order, in the form attached to this Agreement, shall be issued and executed promptly after an agreement is reached between Contractor and the County concerning the requested changes. Contractor shall promptly perform changes authorized by duly executed Change Orders. The Contract Amount and Contract Time shall be adjusted in the Change Order in the manner as the County and Contractor shall mutually agree.

C. If the County and Contractor are unable to agree on a Change Order for the requested change, Contractor shall, nevertheless, promptly perform the change as directed by the County in a written Work Directive Change. In that event, the Contract Amount and Contract Time shall be adjusted as directed by the County. If Contractor disagrees with the County's adjustment determination, Contractor must make a claim pursuant to Section 18 of this Agreement or else be deemed to have waived any claim on this matter it might otherwise have had.

D. In the event a requested change results in an increase to the Contract Amount, the amount of the increase shall be limited to the Contractor's reasonable direct labor and material costs and reasonable actual equipment costs as a result of the change (including allowance for labor burden costs) plus a maximum ten percent (10%) markup for all overhead and profit. In the event such change Work is performed by a Subcontractor, a maximum ten percent (10%) markup for all overhead and profit for all Subcontractors' and sub-subcontractors' direct labor and material costs and actual equipment costs shall be permitted, with a maximum five percent (5%) markup thereon by the Contractor for all of its overhead and profit, for a total maximum markup of fifteen percent (15%). All compensation due Contractor and any Subcontractor or sub-subcontractor for field and home office overhead is included in the markups noted above.

E. The County shall have the right to conduct an audit of Contractor's books and records to verify the accuracy of the Contractor's claim with respect to Contractor's costs associated with any Change Order.

F. The Engineer shall have authority to order minor changes in the Work not involving an adjustment to the Contract Amount or an extension to the Contract Time exceeding his/her authority and not inconsistent with the intent of the Contract Documents. Minor changes approved by the Engineer, whether changes to Work and or Contract Time, cumulatively may not exceed ten percent (10%) of the Work and or Original Contract Time. Such changes may be effected by Field Order or by other written order. Such changes shall be binding on the Contractor.

Section 18. Claims and Disputes

A. A Claim is a demand or assertion by one of the parties seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term "Claim" also includes other disputes and matters in question between the County and Contractor arising out of or relating to the Contract Documents. The responsibility to substantiate a Claim shall rest with the party making the Claim.

B. Claims by the Contractor shall be made in writing to the Engineer within forty-eight (48) hours after the first day of the event giving rise to such Claim or else the Contractor shall be deemed to have waived the Claim. Written supporting data shall be submitted to the Engineer within fifteen (15) calendar days after the occurrence of the event, unless the County grants additional time in writing, or else the Contractor shall be deemed to have waived the Claim. All claims shall be priced in accordance with the provisions of Subsection 17.D. Engineer will render a formal decision

on the claim in writing within fifteen (15) calendar days after receipt of the Contractor's Claim. Engineer's written decision will be final and binding upon Contractor and unless Contractor submits a written notice to the County and Engineer requesting non-binding voluntary mediation within fifteen (15) calendar days of the date of such decisions, then Contractor forever waives and relinquishes any rights to bring any future legal actions or court claims with respect to such Claim. Non-binding Mediation shall be completed within sixty (60) days from the date of Contractor's timely submission of a written notice requesting non-binding voluntary mediation.

C. The Contractor shall proceed diligently with its performance as directed by the County, regardless of any pending Claim, action, suit or administrative proceeding, unless otherwise agreed to by the County in writing. The County shall continue to make payments in accordance with the Contract Documents during the pendency of any Claim.

Section 19. Indemnification and Insurance

A. To the fullest extent permitted by law, Contractor and its surety covenant and agree to indemnify and hold County harmless of and from any and all claims, losses, demands, causes of action and the like, including but not limited to, attorneys' fees and court costs which may be asserted against County by anyone other than Contractor, resulting from, arising out of, or occurring in connection with the failure of Contractor or supplier of Contractor to perform all work required within the scope of this agreement in strict accordance with the contract documents.

B. To the full extent permitted by law, Contractor hereby agrees to defend and indemnify, protect and hold harmless County, its agents, employees, servants and sureties (individually the "Indemnified Party" and collectively the "Indemnified Parties") of and from any loss or damage and to reimburse the Indemnified Parties for any and all expenses, including legal fees, expert witness fees and other litigation costs to which the Indemnified Parties may be put because of:

B.1. the liability for claims and liens for labor performed or materials used or furnished through or under Contractor for the project for which Contractor is liable due to any failure of Contractor to adhere to the terms of this agreement or any of the contract documents;

B.2. liability to County resulting from Contractor's failure to comply with applicable licensing requirements;

B.3. any personal injury, loss, damage or death to any person or persons (including employees, officers or agents of County, Contractor and lower tier subcontractors) and any property damage arising out of, result from, or in connection with the performance or nonperformance of work required in this contract or by reason of any act, omission, fault or negligence whether active or passive of Contractor whether on the project or proceeding to or from the site, including, without limitation, any personal injury, loss, damage, death or

property damage caused (or alleged to be caused) by any negligent or grossly negligent act, error or omission of any person or entity, including any Indemnified Party whether such Indemnified Party's or the person's or entity's negligence be joint or concurrent however, Contractor shall not be required to indemnify an Indemnified Party for that party's sole negligence; or

B.4. liability imposed upon County directly or indirectly by Contractor's failure or the failure of any of its employees to comply with any law, ordinance, rule, regulation or requirement, including, but not limited to, any Occupational Safety and Health Administration violations and any penalties, including enhancements, resulting in whole or in part by subcontractor's acts or omissions as well as the Immigration Reform and Control Act of 1986 and all rules and regulations adopted pursuant thereto.

C. To the fullest extent permitted by law, in addition to the express duty to indemnify County when there is any causal connection between Contractor's work and any injury, loss, damage, death or property damage, Contractor expressly undertakes a duty to defend County as a separate duty, independent of and broader than the duty to indemnify. The duty to defend agreed to by Contractor hereby expressly include all costs of litigation, attorney's fees, settlement costs and reasonable expenses in connection with the litigation, whether or not the claims made for loss, injury, damage or property damage are valid or groundless and regardless of whether the defense of County is maintained by the County or assumed by Contractor as long as the claims made could be causally connected to Contractor as reasonable determined by County (claims).

D. The County and Contractor agree the first $100.00 of the Contract Amount paid by the County to Contractor shall be given as separate consideration for this indemnification and duty to defend, and any other indemnification of the County by Contractor provided for within the Contract Documents, the sufficiency of such separate consideration being acknowledged by Contractor by Contractor's execution of the Agreement. The Contractor's obligation under this provision shall not be limited in any way by the agreed upon contract price as shown in this contract or the Contractor's limit of, or lack of, sufficient insurance protection.

E. Contractor shall obtain and carry, at all times during its performance under the Contract Documents, insurance of the types and in the amounts set forth in the Insurance Requirements attached to this Agreement. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and/or responsible risk retention group insurance companies which are registered with the State of Florida. Within fifteen (15) calendar days after Notice of Award is received by Contractor, Contractor shall provide the County with properly executed Certificates of Insurance to evidence Contractor's compliance with the insurance requirements of the Contract Documents. Said Certificates of Insurance shall be on forms approved by the County. The Certificates of Insurance shall be personally, manually signed by the authorized representatives of the insurance company/companies shown on the Certificates of Insurance, with proof that they are authorized representatives thereof. In addition, certified, true and

exact copies of all insurance policies required hereunder shall be provided to the County, on a timely basis, when requested by the County.

F. The Certificates of Insurance and required insurance policies shall contain provisions that thirty (30) days prior written notice by registered or certified mail shall be given the County of any cancellation, intent not to renew, or reduction in the policies or coverages, except in the application of the aggregate limits provisions. In the event of a reduction in the aggregate limit of any policy, Contractor shall immediately take steps to have the aggregate limit reinstated to the full extent permitted under such policy.

G. All insurance coverages of the Contractor shall be primary to any insurance or self-insurance program carried by the County applicable to this Project. The acceptance by the County of any Certificate of Insurance does not constitute approval or agreement by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate of Insurance is in compliance with the requirements of the Contract Documents. No work shall commence at the Project site unless and until the required Certificates of Insurance are received by the County.

H. Contractor shall require each of its subcontractors to procure and maintain, until the completion of the subcontractor's work, insurance of the types and to the limits specified in the Insurance Requirements attached to this Agreement, unless such insurance requirements for the subcontractor is expressly waived in writing by the County. All liability insurance policies, other than professional liability, worker’s compensation, employer's liability and business auto liability policies, obtained by Contractor to meet the requirements of the Contract Documents shall name the County and Engineer as additional insureds and shall contain severability of interest provisions. If any insurance provided pursuant to the Contract Documents expires prior to the completion of the Work, renewal Certificates of Insurance and, if requested by the County, certified, true copies of the renewal policies, shall be furnished by Contractor within thirty (30) days prior to the date of expiration.

I. Should at any time the Contractor not maintain the insurance coverages required herein, the County may terminate the Agreement or at its sole discretion shall be authorized to purchase such coverages and charge the Contractor for such coverages purchased. The County shall be under no obligation to purchase such insurance, nor shall it be responsible for the coverages purchased or the insurance company or companies used. The decision of the County to purchase such insurance coverages shall in no way be construed to be a waiver of any of its rights under the Contract Documents.

J. Contractor shall submit to Engineer a copy of all accident reports arising out of any injuries to its employees or those of any firm or individual to whom it may have subcontracted a portion of the Work, or any personal injuries or property damages arising or alleged to have arisen on account of any work by Contractor under the Contract Documents.

Section 20. Compliance with Laws

Contractor agrees to comply, at its own expense, with all federal, state and local laws, codes, statutes, ordinances, rules, regulations and requirements applicable to the Project, including but not limited to those dealing with taxation, worker's compensation, equal employment and safety. If Contractor observes that the Contract Documents are at variance therewith, it shall promptly notify the County and Engineer in writing.

Section 21. Cleanup and Protections

A. Contractor agrees to keep the Project site clean at all times of debris, rubbish and waste materials arising out of the Work. At the completion of the Work, Contractor shall remove all debris, rubbish and waste materials from and about the Project site, as well as all tools, appliances, construction equipment and machinery and surplus materials, and shall leave the Project site clean and ready for occupancy by the County.

B. Any existing surface or subsurface improvements, including, but not limited to, pavements, curbs, sidewalks, pipes, utilities, footings, structures, trees and shrubbery, not indicated in the Contract Documents to be removed or altered, shall be protected by Contractor from damage during the prosecution of the Work. Any such improvements so damaged shall be restored by Contractor to the condition equal to that existing at the time of Contractor's commencement of the Work.

Section 22. Assignment

Contractor shall not assign this Agreement or any part thereof, without the prior consent in writing of the County. If Contractor does, with approval, assign this Agreement or any part thereof, it shall require that its assignee be bound to it and to assume toward Contractor all of the obligations and responsibilities that Contractor has assumed toward the County.

Section 23. Permits, Licenses and Taxes

A. Pursuant to Section 218.80, F.S., the County will pay for all County permits and fees, including license fees, permit fees, impact fees or inspection fees applicable to the work. Contractor is not responsible for paying for permits issued by the County wherein the work is to be performed, but is responsible for acquiring all permits. The County may require the Contractor to deliver internal budget transfer documents to applicable County agencies when the Contractor is acquiring permits.

B. All permits, fees and licenses necessary for the prosecution of the Work which are not issued by the County shall be acquired and paid for by the Contractor.

C. Contractor shall pay any and all sales, use, or other taxes, assessments and other similar charges when due, as required by any local, state of federal law, as it pertains to the services

provided herein. Contractor further agrees that it shall protect, reimburse, and indemnify the County from and assume all liability for its tax obligations under the terms of this Agreement.

Section 24. Termination for Default

A. Contractor shall be considered in material default of the Agreement and such default shall be considered cause for the County to terminate the Agreement, in whole or in part, as further set forth in this Section, if Contractor: (1) fails to begin the Work under the Contract Documents within the time specified herein; or (2) fails to properly and timely perform the Work as directed by the County or the Engineer or as provided for in the approved Progress Schedule; or (3) performs the Work unsuitably or neglects or refuses to remove materials or to correct or replace such Work as may be rejected as unacceptable or unsuitable; or (4) discontinues the prosecution of the Work; or (5) fails to resume Work which has been suspended within a reasonable time after being notified to do so; or (6) becomes insolvent or is declared bankrupt, or commits any act of bankruptcy; or (7) allows any final judgment to stand against it unsatisfied for more than ten (10) days; or (8) makes an assignment for the benefit of creditors; or (9) fails to obey any applicable codes, laws, ordinances, rules or regulations with respect to the Work; or (10) materially breaches any other provision of the Contract Documents.

B. The County shall notify Contractor in writing of Contractor's default(s). If the County determines that Contractor has not remedied and cured the default(s) within seven (7) calendar days following receipt by Contractor of said written notice, then the County, at its option, without releasing or waiving its rights and remedies against the Contractor's sureties and without prejudice to any other right or remedy it may be entitled to hereunder or by law, may terminate Contractor's right to proceed under the Agreement, in whole or in part, and take possession of all or any portion of the Work and any materials, tools, equipment, and appliances of Contractor, take assignments of any of Contractor's subcontracts and purchase orders, and complete all or any portion of Contractor's Work by whatever means, method or agency which the County, in its sole discretion, may choose.

C. If the County deems any of the foregoing remedies necessary, Contractor agrees that it shall not be entitled to receive any further payments hereunder until after the Project is completed. All monies expended and all of the costs, losses, damages and extra expenses, including all management, administrative and other overhead and other direct and indirect expenses (including Engineer and attorneys' fees) or damages incurred by the County incident to such completion, shall be deducted from the Contract Amount, and if such expenditures exceed the unpaid balance of the Contract Amount, Contractor agrees to pay promptly to the County on demand the full amount of such excess, including costs of collection, attorney's fees (including appeals) and interest thereon at the maximum legal rate of interest until paid. If the unpaid balance of the Contract Amount exceeds all such costs, expenditures and damages incurred by the County to complete the Work, such excess shall be paid to the Contractor. The amount to be paid to the Contractor or the County, as the case may be, shall be approved by the Engineer, upon application, and this obligation for payment shall survive termination of the Agreement.

D. The liability of Contractor hereunder shall extend to and include the full amount of any and all sums paid, expenses and losses incurred, damages sustained, and obligations assumed by the County in good faith under the belief that such payments or assumptions were necessary or required, in completing the Work and providing labor, materials, equipment, supplies, and other items therefore or re-letting the Work, and in settlement, discharge or compromise of any claims, demands, suits, and judgments pertaining to or arising out of the Work hereunder.

E. If, after notice of termination of Contractor's right to proceed pursuant to this Section, it is determined for any reason that Contractor was not in default, or that its default was excusable, or that the County is not entitled to the remedies against Contractor provided herein, then Contractor's remedies against the County shall be the same as and limited to those afforded Contractor under Section 24 below.

Section 24. Termination for Convenience and Right of Suspension

A. The County shall have the right to terminate this Agreement without cause upon seven (7) calendar days written notice to Contractor. In the event of such termination for convenience, Contractor's recovery against the County shall be limited to that portion of the Contract Amount earned through the date of termination, together with any retainage withheld and reasonable termination expenses incurred, but Contractor shall not be entitled to any other or further recovery against the County, including, but not limited to, damages or any anticipated profit on portions of the Work not performed.

B. The County shall have the right to suspend all or any portions of the Work upon giving Contractor not less than two (2) calendar days' prior written notice of such suspension. If all or any portion of the Work is so suspended, Contractor's sole and exclusive remedy shall be to seek an extension of time to its schedule in accordance with the procedures set forth in the Contract Documents. In no event shall the Contractor be entitled to any additional compensation or damages. Provided, however, if the ordered suspension exceeds six (6) months, the Contractor shall have the right to terminate the Agreement with respect to that portion of the Work which is subject to the ordered suspension.

Section 25. Completion

A. When the entire Work (or any portion thereof designated in writing by the County) is ready for its intended use, Contractor shall notify the Engineer in writing that the entire Work (or such designated portion) is substantially complete and request that Engineer issue a Certificate of Substantial Completion (or Certificate of Partial Substantial Completion). Within a reasonable time thereafter, the Contractor and Engineer shall make an inspection of the Work (or designated portion thereof) to determine the status of completion. If the Engineer does not consider the Work (or designated portion) substantially complete, Engineer shall notify Contractor in writing giving the reasons therefor. If the Engineer considers the Work (or designated portion) substantially complete, Engineer shall prepare and deliver to Contractor a Certificate of Substantial Completion (or Certificate of Partial Substantial Completion) which shall fix the date of Substantial Completion for

the entire Work (or designated portion thereof) and include a tentative punchlist of items to be completed or corrected by Contractor before final payment. The County shall have the right to exclude Contractor from the Work and Project site (or designated portion thereof) after the date of Substantial Completion, but the County shall allow Contractor reasonable access to complete or correct items on the tentative punchlist.

B. Upon receipt of written certification by Contractor that the Work is completed in accordance with the Contract Documents and is ready for final inspection and acceptance and upon receipt of a final Application for Payment, Engineer will make such inspection and, if he finds the Work acceptable and fully performed under the Contract Documents, he shall promptly issue a final Certificate for Payment, recommending that, on the basis of his observations and inspections, and the Contractor's certification that the Work has been completed in accordance with the terms and conditions of the Contract Documents, that the entire balance found to be due Contractor is due and payable. Neither the final payment nor the retainage shall become due and payable until Contractor submits: (1) the Release and Affidavit in the form attached, (2) consent of surety to final payment, and (3) if required by the County, other data establishing payment or satisfaction of all obligations, such as receipts, releases and waivers of liens, arising out of the Contract Documents, to the extent and in such form as may be designated by the County. The County reserves the right to inspect the Work and make an independent determination as to the Work's acceptability, even though the Engineer may have issued his recommendations. Unless and until the County is completely satisfied, neither the final payment nor the retainage shall become due and payable.

Section 26. Warranty

Contractor shall obtain and assign to the County all express warranties given to Contractor or any subcontractors by any materialmen supplying materials, equipment or fixtures to be incorporated into the Project. Contractor warrants to the County that any materials and equipment furnished under the Contract Documents shall be new unless otherwise specified, and that all Work shall be of good quality, free from all defects and in conformance with the Contract Documents. Contractor further warrants to the County that all materials and equipment furnished under the Contract Documents shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturers, fabricators, suppliers or processors except as otherwise provided for in the Contract Documents. If, within one (1) year after final completion, any Work is found to be defective or not in conformance with the Contract Documents, Contractor shall correct it promptly after receipt of written notice from the County. Contractor shall also be responsible for and pay for replacement or repair of adjacent materials or Work which may be damaged as a result of such replacement or repair. These warranties are in addition to those implied warranties to which the County is entitled as a matter of law.

Section 27. Tests and Inspections.

A. The County, Engineer, their respective representatives, agents and employees, and governmental agencies with jurisdiction over the Project shall have access at all times to the Work, whether the Work is being performed on or off of the Project site, for their observation, inspection

and testing. Contractor shall provide proper, safe conditions for such access. Contractor shall provide Engineer with timely notice of readiness of the Work for all required inspections, tests or approvals.

B. If the Contract Documents or any codes, laws, ordinances, rules or regulations of any public authority having jurisdiction over the Project requires any portion of the Work to be specifically inspected, tested or approved, Contractor shall assume full responsibility therefore, pay all costs in connection therewith and furnish Engineer the required certificates of inspection, testing or approval. All inspections, tests or approvals shall be performed in a manner and by organizations acceptable to the Engineer and the County.

C. If any Work that is to be inspected, tested or approved is covered without written concurrence from the Engineer, such work must, if requested by Engineer, be uncovered for observation. Such uncovering shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness to respond to such notice. If any Work is covered contrary to written directions from Engineer, such Work must, if requested by Engineer, be uncovered for Engineer's observation and be replaced at Contractor's sole expense.

D. The County shall charge to Contractor and may deduct from any payments due Contractor all engineering and inspection expenses incurred by the County in connection with any overtime work. Such overtime work consisting of any work during the construction period beyond the regular eight (8) hour day and for any work performed on Saturday, Sunday or holidays.

E. Neither observations nor other actions by the Engineer nor inspections, tests or approvals by others shall relieve Contractor from Contractor's obligations to perform the Work in accordance with the Contract Documents.

Section 28. Defective Work

A. Work not conforming to the requirements of the Contract Documents shall be deemed defective Work. If required by the County or Engineer, Contractor shall, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or if the defective Work has been rejected by the County or Engineer, remove it from the site and replace it with conforming Work. Contractor shall bear all direct, indirect and consequential costs of such correction or removal (including, but not limited to fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby, and shall hold the County harmless for same.

B. If any portion of the Work is defective, or Contractor fails to supply sufficient skilled workers with suitable materials or equipment, or fails to finish or perform the Work in such a way that the completed Work will conform to the Contract Documents, the County or Engineer may order Contractor to stop the Work, or any portion thereof, until the cause for such stop in the work has been eliminated; however, this right of the County or Engineer to stop the Work shall not give rise to

any duty on the part of the County or Engineer to exercise this right for the benefit of Contractor or any other party.

C. If Contractor fails, within a reasonable time after the written notice from the County or Engineer, to correct defective Work or to remove and replace rejected defective Work as required by Engineer or the County, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any of the provisions of the Contract Documents, the County may, after seven (7) days written notice to Contractor, correct and remedy any such deficiency.

Section 29. Supervision and Superintendents

Contractor shall plan, organize, supervise, schedule, monitor, direct and control the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be responsible to see that the finished Work complies accurately with the Contract Documents. Contractor shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without prior written notice to the County and Engineer except under extraordinary circumstances. The superintendent shall be Contractor's representative at the Project site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to the Contractor.

Section 30. Protection of Work

Contractor shall fully protect the Work from loss or damage and shall bear the cost of any such loss or damage until final payment has been made. If Contractor or any one for whom Contractor is legally liable is responsible for any loss or damage to the Work, or other work or materials of the County or the County's separate contractors, Contractor shall be charged with the same, and any monies necessary to replace such loss or damage shall be deducted from any amounts due Contractor.

Section 31. Emergencies

In the event of an emergency affecting the safety or protection of persons or the Work or property at the Project site or adjacent thereto, Contractor, without special instruction or authorization from the County or Engineer is obligated to act to prevent threatened damage, injury or loss. Contractor shall give Engineer written notice within forty-eight (48) hours after the occurrence of the emergency, if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If the Engineer determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Change Order shall be issued to document the consequences of the changes or variations. If Contractor fails to provide the forty-eight (48) hour written notice noted above, the Contractor shall be deemed to have waived any right it otherwise may have had to seek an adjustment to the Contract Amount or an extension to the Contract Time.

Section 32. Use of Premises

Contractor shall confine all construction equipment, the storage of materials and equipment and the operations of workers to the Project site and land and areas identified in and permitted by the Contract Documents and other lands and areas permitted by law, rights of way, permits and easements, and shall not unreasonably encumber the Project site with construction equipment or other material or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or any land or areas contiguous thereto, resulting from the performance of the Work.

Section 33. Safety

A. Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

A.1. All employees on the Work and other persons and/or organizations who may be affected thereby;

A.2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the Project site; and

A.3. Other property on Project site or adjacent thereto, including trees, shrubs, walks, pavements, roadways, structures, utilities and any underground structures or improvements not designated for removal, relocation or replacement in the Contract Documents.

B. Contractor shall comply with all applicable codes, laws, ordinances, rules and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground structures and improvements and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation or replacement of their property. Contractor's duties and responsibilities for the safety and protection of the Work shall continue until such time as the Work is completed and final acceptance of same by the County has occurred.

C. Contractor shall designate a responsible representative at the Project site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to the County.

Section 34. Project Meetings

Prior to the commencement of Work, the Contractor shall attend a preconstruction conference with the Engineer and others as appropriate to discuss the Progress Schedule, procedures for handling shop drawings and other submittals, and for processing Applications for Payment, and to establish a working understanding among the parties as to the Work. During the prosecution of the Work, the Contractor shall attend any and all meetings convened by the Engineer or the County with respect to the Project, when directed to do so by the County or Engineer. Contractor shall have its subcontractors and suppliers attend all such meetings (including the preconstruction conference) as may be directed by the County or Engineer.

Section 35. Notices

A. All notices required or made pursuant to this Agreement by the Contractor to the County or Engineer shall be in writing and delivered by hand or by United States Postal Service Department, first class mail, postage pre-paid, return receipt requested, or by Federal Express, addressed to the following:

County

Ben Scott, Columbia County Administrator
135 NE Hernando Avenue, Suite 203
Lake City, Florida 32056-1529

and

Engineer

[INSERT ENGINEER NAME AND CONTACT INFORMATION]

With courtesy copies also provided to:

Joel F. Foreman, County Attorney
Columbia County, Florida
207 S. Marion Avenue
Lake City, Florida 32025

Kevin Kirby, Public Works Director
Columbia County, Florida
Post Office Box 969
Lake City, Florida 32056-0969

Chad Williams, County Engineer
Columbia County Public Works

Post Office Box 1529
Lake City, Florida 32056

B. All notices required or made pursuant to this Agreement by the County to Contractor shall be made in writing and shall be delivered by hand or by United States Postal Service Department, first class mail, postage pre-paid, return receipt requested, or by Federal Express, addressed to the following:

Corporate Name of Contractor: _____

Address (including city, state and zip): _____

_____

Name of person with their title to whose

Attention the notice should be sent: _____

Telephone and Fax numbers: _____

C. Either party may change its above noted address by giving written notice to the other party in accordance with the requirements of this Section.

Section 36. Modification

No modification or change to the Agreement shall be valid or binding upon the parties unless in writing and executed by the party or parties intended to be bound by it.

Section 37. Successors and Assigns

Subject to other provisions hereof, the Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the parties to the Agreement.

Section 38. Governing Law

The Agreement shall be interpreted under and its performance governed by the laws of the State of Florida.

Section 39. Venue

The state courts in and for Columbia County, Florida shall be the proper and sole venue for any legal action on any and all claims, disputes or other matters in controversy arising out of or relating to this Agreement, whether stated as contractual, tort, equitable, statutory or any other claims or causes of action.

Section 40. No Waiver

The failure of the County to enforce at any time or for any period of time any one or more of the provisions of the Agreement shall not be construed to be and shall not be a waiver of any such provision or provisions or of its right thereafter to enforce each and every such provision.

Section 41. Remedies Cumulative

No right or remedy in this Agreement is intended to be exclusive of any other right or remedy, but every such right or remedy shall be cumulative and shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

Section 42. Entire Agreement

Each of the parties hereto agrees and represents that the Agreement comprises the full and entire agreement between the parties affecting the Work contemplated, and no other agreement or understanding of any nature concerning the same has been entered into or will be recognized, and that all negotiations, acts, work performed, or payments made prior to the execution hereof shall be deemed merged in, integrated and superseded by the Agreement.

Section 43. Severability

Should any provision of the Agreement be determined by a court to be unenforceable, such a determination shall not affect the validity or enforceability of any other section or part thereof.

Section 44. Third Party Beneficiaries

It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of the Agreement to create in the public or any member thereof, a third party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

Section 45. Public Records

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (INSERT TELEPHONE NUMBER, E-MAIL ADDRESS, AND MAILING ADDRESS).

Contractor must comply with the public records laws, Florida Statute chapter 119, specifically Contractor must:

A. Keep and maintain public records required by the County to perform the service.

B. Upon request from the County's custodian of public records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119 Florida Statutes or as otherwise provided by law.

C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the County.

D. Upon completion of the contract, transfer, at no cost, to the County all public records in possession of the contractor or keep and maintain public records required by the County to perform the service. If the contractor transfers all public records to the public agency upon completion of the contract, the contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the contractor shall meet all applicable requirements for retaining the public records. All records stored electronically must be provided to the public agency, upon the request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date(s) indicated below.

CONTRACTOR: _____
(Company Name)

ATTEST:

By:_____ (Signature) _____ (Printed)
Its: _____ (Title)
Date: _____

Witness:

Its:_____
President/Corporate Secretary/Witness Date:_____
[Corporate Seal]

_____
2nd Witness (if not incorporated)

OWNER: Board of County Commissioners of Columbia County, Florida

(SEAL) By:_____
Chairman

Clerk: _____ Date:_____

_____
Approved as to Form and Content:

_____
County Attorney

EXHIBIT A
LEGAL ADVERTISEMENT

EXHIBIT B
INVITATION TO BID

EXHIBIT C

BID PROPOSAL WITH REQUIRED FORMS

EXHIBIT D
PERFORMANCE BOND

BOND NO._____

KNOW ALL MEN BY THESE PRESENTS: That _____ _____, as Principal, whose principal business address is _____ and phone number is _____, and _____, as Surety, whose principal address is_____ _____ and phone number is: _____ are held and firmly bound to Columbia County, Florida (the "COUNTY"), as Obligee in the sum of:_____ _____ ($_____) for the payment whereof we bond ourselves, our heirs, executors, personal representatives, successors and assigns, jointly and severally.

WHEREAS, Principal has entered into a contract dated as of the _____ day of _____, 20____, with Obligee for _____ _____ _____ _____ COLUMBIA COUNTY Project No.:_____ in accordance with drawings and specifications, which contract is incorporated by reference and made a part hereof, and is referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the Contract at the times and in the manner prescribed in the Contract; and

2. Pays Obligee any and all losses, damages, costs and attorneys' fees, including appellate proceedings, that Obligee sustains because of any default by Principal under the Contract, including, but not limited to, all delay damages, whether liquidated or actual, incurred by Obligee; and

3. Performs the guarantee of all work and materials furnished under the Contract for the time specified in the Contract, then this bond is void; otherwise it remains in full force.

Any changes in or under the Contract and compliance or noncompliance with any formalities connected with the Contract or the changes do not affect Surety's obligation under this Bond.

The Surety, for value received, hereby stipulates and agrees that no changes, extensions of time, alterations or additions to the terms of the Contract or other work to be performed hereunder, or the specifications referred to therein shall in anywise affect its obligations under this bond, and it does hereby waive notice of any such changes, extensions of time, alterations or additions to the terms of the Contract or to work or to the specifications.

This bond is intended to comply with provisions of Section 255.05, Florida Statutes, and all terms and conditions of said statute are incorporated herein by reference thereto, specifically including but not limited to the notice and time limitation provisions of said section. In the event of any conflict, ambiguity or discrepancy between Section 255.05, Florida Statutes, and this Bond, Florida Statutes shall control. No right of action shall accrue on this Bond to or, for the use of any person or entity other than the COUNTY and those persons or corporations provided for by said statute, their heirs, executors, administrators, successors or assigns.

It is further agreed and understood that if the COUNTY is required to initiate legal proceedings to recover on this Bond, the COUNTY may also recover its costs relating there to, including a reasonable amount for its attorney's fees and legal assistant's fees before trial, at trial, on appeal and in bankruptcy.

IN WITNESS WHEREOF, the above parties have executed this instrument this _____ day of _____, 20____, the name of each party being affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Signed, sealed and delivered
in the presence of:

PRINCIPAL: _____
(Company Name of Contractor)

By:_____(Officers Signature)
_____ (Officers Name Printed)

Witnesses as to Principal Name:_____ (Signature)
Its:_____ (Title)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____day of _____, 20 _____, by _____(officer's name), as _____ (title) of _____ (company name), a(n)_____ (state) corporation, on behalf of the corporation. He/she is personally known to me OR has produced _____ as identification and did (did not) take an oath.

My Commission Expires: _____

Signature of Notary :_____
(Legibly Printed) _____

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No. _____

ATTEST: SURETY:

_____
(Printed Company Name)
_____

_____

(Business Address)

_____ _____
(Surety Authorized Signature) (Printed Name)

Witness as to Surety _____(Signature)
_____(Printed Name)

OR

_____ _____

As Attorney in Fact (Signature) (Printed Name)

(Attach Power of Attorney)

Witnessed by: _____ _____

(Signature) (Printed Name)

_____ _____

(Business Address) (Telephone Number)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____day of _____, 20____, by_____ (officer's name), as_____ (title) of _____ Surety, on behalf of Surety. He/She is personally known to me OR has produced _____ as identification and who did (did not) take an oath.

My Commission Expires: _____

Signature of Notary :_____

(Legibly Printed) _____

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No. _____

EXHIBIT E
PUBLIC PAYMENT BOND

BOND No. _____

KNOW ALL MEN BY THESE PRESENTS: That_____
_____, as Principal, whose principal business address is:
_____
and phone number and fax numbers are: _____
and _____, as Surety, whose principal address is:
_____
_____
and phone number and fax numbers are: _____ are held and firmly bound to COLUMBIA COUNTY, FLORIDA (the "COUNTY") as Obligee in the sum of_____
_____ ($_____)
for the payment whereof we bind ourselves, our heirs, executors, personal representatives, successors and assigns, jointly and severally.

WHEREAS, Principal has entered into a contract dated as of the ____ day of _____, 20___, with Obligee for _____
in accordance with drawings and specifications, which contract is incorporated by reference and made a part hereof, and this referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal promptly makes payment to all claimants as defined in Section 255.05(1), Florida Statutes, supplying Principal with labor, materials or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the Contract, then is bond is void; otherwise it remains in full force.

Any changes in or under the Contract and compliance or noncompliance with any formalities connected with the Contract or the changes do not affect Surety's obligation under this Bond.

The provisions of this bond are subject to the time limitations of Section 255.05(2). In no event will the Surety be liable in the aggregate to claimants for more than the penal sum of this Payment Bond, regardless of the number of suits that may be filed by claimants.

IN WITNESS WHEREOF, the above parties have executed this instrument this _____ day of _____, 20___, the name of each party being affixed and these presents duly signed by its under-signed representative, pursuant to authority of its governing body.
Signed, sealed and delivered in the presence of:

PRINCIPAL: _____
(Company Name of Contractor)

By:_____ (Officer's Signature)
_____ (Officer's Name Printed)

Witnesses as to Principal Name:_____ (Signature)
Its:_____ (Title)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this ___day of _____, 20_____,

by_____ (officer's name), as

_____ (title) of _____, a

_____corporation, on behalf of the corporation. He/she is personally known to me OR has

produced_____ as identification and did (did not) take an oath.

My Commission Expires: _____
Signature of Notary: _____
(Legibly Printed) _____
(AFFIX OFFICIAL SEAL) Notary Public, State of _____
Commission No.:_____

ATTEST: SURETY:

_____
(Printed Company Name)
_____
_____
(Business Address)

_____ _____
(Surety Authorized Signature) (Printed Name)

Witness as to Surety: _____ (Signature)

_____(Printed Name)

OR

_____ _____

As Attorney in Fact (Signature) (Printed Name)

(Attach Power of Attorney)

Witnessed by: _____ _____

(Signature) (Printed Name)

_____

_____

(Business Address)

_____

(Telephone Number)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this ____day of _____, 20 __, by_____ (officer's name), as_____ (title) of_____ Surety, on behalf of Surety. He/She is personally known to me OR has produced _____ as identification and who did (did not) take an oath.

My Commission Expires: _____

Signature of Notary: _____

(Legibly Printed) _____

(AFFIX OFFICIAL SEAL)

Notary Public, State of _____

Commission No:_____

EXHIBIT F
INSURANCE REQUIREMENTS
CERTIFICATES OF INSURANCE

(1) The Contractor shall obtain and maintain such insurance as will protect it from: (1) claims under worker's compensation laws, disability benefit laws, or other similar employee benefit laws; (2) claims for damages because of bodily injury, occupational sickness or disease or death of his employees including claims insured by usual personal injury liability coverage; (3) claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees including claims insured by usual personal injury liability coverage; and (4) from claims for injury to or destruction of tangible property including loss of use resulting there from -- any or all of which claims may arise out of, or result from, the services, work and operations carried out pursuant to and under the requirements of the Contract Documents, whether such services, work and operations be by the Contractor, its employees, or by subcontractor(s), or anyone employed by or under the supervision of any of them, or for whose acts any of them may be legally liable.

(2) This insurance shall be obtained and written for not less than the limits of liability specified hereinafter, or as required by law, whichever is greater.

(3) The Contractor shall require, and shall be responsible for assuring throughout the time the Agreement is in effect, that any and all of its subcontractors obtain and maintain until the completion of that subcontractor's work, such of the insurance coverages described herein as are required by law to be provided on behalf of their employees and others.

(4) The Contractor shall obtain, have and maintain during the entire period of the Agreement insurance policies, which contain the following information and provisions:

(A) The name and type of policy and coverages provided;
(B) The amount or limit applicable to each coverage provided;
(C) The date of expiration of coverage;
(D) The designation of the COUNTY as an additional insured and a certificate holder. (This requirement may be excepted for Worker's Compensation and professional liability Insurance.);
(E) The following clause must appear on the Certificate of Insurance:

Should any material change occur in any of the above described policies or should any of said policies be canceled before the expiration date thereof, the issuing company will mail at least thirty (30) days written notice to the COUNTY.

(5) If the initial, or any subsequently issued Certificate of Insurance expires prior to the completion of the Work or termination of the Agreement, the Contractor shall furnish to the COUNTY, in triplicate, renewal or replacement Certificate(s) of Insurance not later than thirty (30) calendar days prior to the date of their expiration. Failure of the Contractor to provide the COUNTY

with such renewal certificate(s) shall be considered justification for the COUNTY to terminate the Agreement.

(6) Contractor shall include the COUNTY, the COUNTY's agents, officers and employees in the Contractor's General Liability and Automobile Liability policies as additional insureds.

(7) If the COUNTY has any objection to the coverage afforded by other provisions of the insurance required to be purchased and maintained by Contractor in accordance with the requirements of the Contract Documents on the basis of its not complying with the Contract Documents, the COUNTY shall notify Contractor in writing thereof within thirty (30) days of the delivery of such certificates to the COUNTY. Contractor shall provide to the COUNTY such additional information with respect to its insurance as may be requested.

(8) The Contractor shall obtain and maintain the following insurance coverages as provided hereinbefore, and in the type, amounts and in conformance with the following minimum requirements:

WORKER'S COMPENSATION **[REVISE AS NEEDED TO MEET COUNTY'S REQUIREMENTS]**

State: Statutory
Applicable Federal:
(e.g. Longshoremen's) Statutory
Employer's Liability: $1,000,000.00

COMPREHENSIVE GENERAL LIABILITY

Bodily Injury: $1,000,000.00 Each Occurrence
Property Damage: $1,000,000.00 Each Occurrence

Comprehensive General Liability Insurance shall include:

Contractual Liability, Explosion, Collapse and Underground Coverages and Products and Completed Operations Coverages.

COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily Injury: $1,000,000.00 Each Occurrence
Property Damage: $1,000,000.00 Each Occurrence

Comprehensive Automobile Liability shall include coverage for any owned auto, non-owned autos and hired autos.

EXHIBIT G
RELEASE AND AFFIDAVIT

COUNTY OF_____

STATE OF FLORIDA

Before me, the undersigned authority, personally appeared _____ _____, who after being duly sworn, deposes and says:

(1) In accordance with the Contract Documents and in consideration of $_____ paid, _____ ("Contractor") releases and waives for itself and its subcontractors, materialmen, successors and assigns, all claims demands, damages, costs and expenses, whether in contract or in tort, against Columbia County, Florida (the "COUNTY"), its Board of County Commissioners, employees and agents relating in any way to the performance of the Agreement between Contractor and the COUNTY, dated _____, ____, for the period from _____ to _____.

(2) Contractor certifies for itself and its subcontractors, materialmen, successors and assigns, that all charges for labor, materials, supplies, lands, licenses and other expenses for which the COUNTY might be sued or for which a lien or a demand against any payment bond might be filed, have been fully satisfied and paid.

(3) Contractor agrees to indemnify, defend and save harmless the COUNTY, its Board of County Commissioners, employees and agents from all demands or suits, actions, claims of liens or other charges filed or asserted against the COUNTY arising out of the performance by Contractor of the Work covered by this Release and Affidavit.

(4) This Release and Affidavit is given in connection with Contractor's [monthly/final] Application for Payment No._____.

CONTRACTOR:

_____

By: _____ (signature of the executive officer)

Its:_____ (title of the executive officer)

Date:_____

Witnesses

_____ _____

[Corporate Seal]

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, _____, by _____, as _____ of _____, a _____ corporation, on behalf of the corporation. He/she is personally known to me or has produced _____ _____ as identification and did (did not) take an oath.

My Commission Expires: _____
(Signature of Notary)

Name:_____
(Legibly Printed)

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No.:_____

EXHIBIT H
CHANGE ORDER FORM

CHANGE ORDER NO. _____ COLUMBIA COUNTY PROJECT NO. _____

TO: _____
_____
_____

DATE: _____

PROJECT NAME: _____

Columbia County Project No._____

Under our AGREEMENT dated_____.

****
You hereby are authorized and directed to make the following change(s) in accordance with terms and conditions of the Agreement:
_____
_____

FOR THE ADDITIVE or DEDUCTIVE Sum of:
_____($_____).

Original Agreement Amount $_____

Sum of Previous Changes $_____

This Change Order ADD/DEDUCT $_____

Present Agreement Amount $_____

The time for completion shall be (increased/decreased) by _____ calendar days due to this Change Order. Accordingly, the Contract Time is now _____ (_____) calendar days and the final completion date is _____. Your acceptance of this Change Order shall constitute a modification to our Agreement and will be performed subject to all the same terms and conditions as contained in our Agreement indicated above, as fully as if the same were repeated in this acceptance. The adjustment, if any, to the Agreement shall constitute a full and final settlement of any and all claims arising out of or related to the change set forth herein, including claims for impact and delay costs.

Accepted:_____ , 20____ .

COLUMBIA COUNTY, FLORIDA

By:_____
Chair

CONTRACTOR

By:_____
President

ENGINEER: By:_____

EXHIBIT I
NOTICE OF AWARD

(This Page is Intentionally Left Blank)

INSERT THE NOTICE OF AWARD BEHIND THIS COVER PAGE

EXHIBIT J

<u>NOTICE TO PROCEED</u>

(This Page is Intentionally Left Blank)

INSERT THE NOTICE TO PROCEEED BEHIND THIS COVER PAGE

EXHIBIT K

APPLICATION FOR PAYMENT

(This Page is Intentionally Left Blank)

INSERT THE APPLICATION FOR PAYMENT BEHIND THIS COVER PAGE

COMPONENTS OF CONTRACT PLANS SET
ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

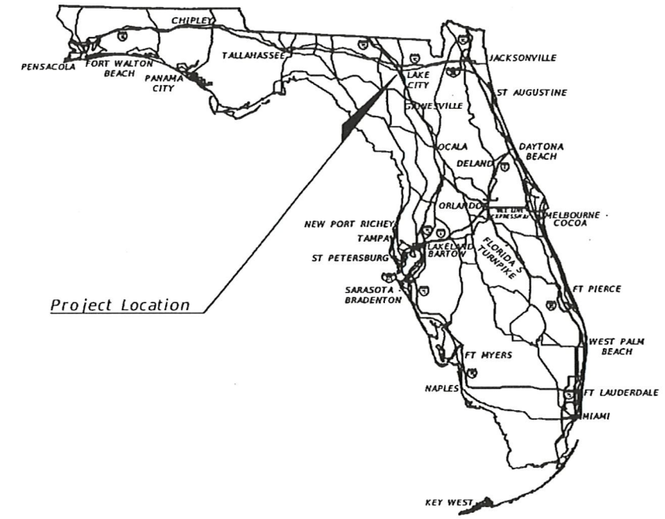
CONTRACT PLANS

SW CALLAHAN AVENUE

COLUMBIA COUNTY PROJECT BID NUMBER - 2017-03
FINANCIAL PROJECT ID 437006-1
NFPS PROJECT ID L150624CCB

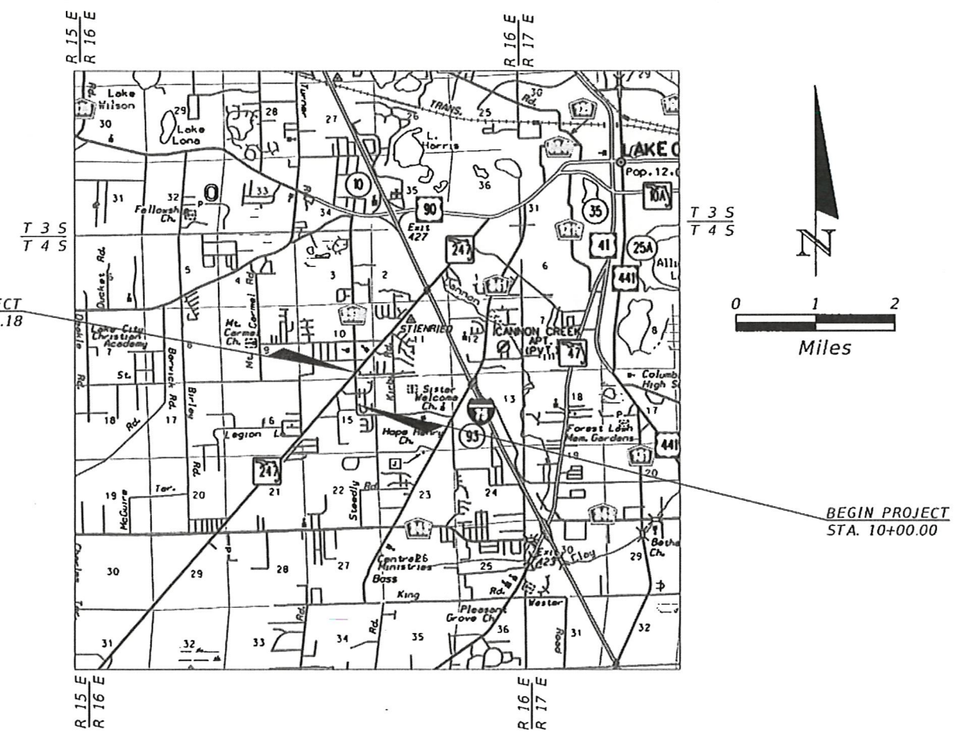
COLUMBIA COUNTY, FLORIDA

ROADWAY PLANS



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-7	TYPICAL SECTIONS
8-10	TURNOUT DETAILS
11	NOTES
12	SUMMARY OF QUANTITIES
13	SUMMARY OF DRAINAGE STRUCTURES
14-15	PROJECT LAYOUT SHEETS
16-23	ROADWAY PLAN SHEETS
24-25	ROADWAY PLAN SHEETS - SW CROSSBOW PLACE
26-30	DRAINAGE STRUCTURES
31-43	ROADWAY CROSS SECTIONS
44	STORMWATER POND DETAILS
45-47	STORMWATER POLLUTION PREVENTION PLAN
48-51	TEMPORARY TRAFFIC CONTROL PLANS



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

RECORD SET

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2016-17 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm

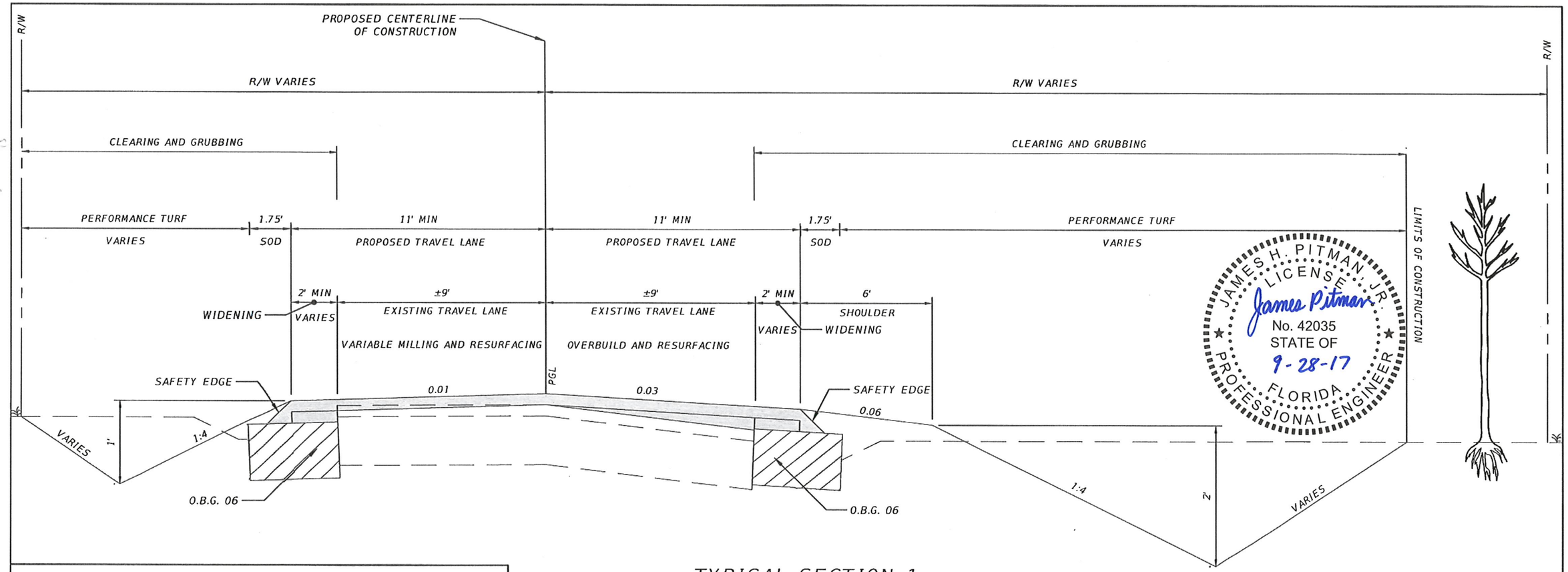
APPLICABLE DSRs:

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, JAN, 2017 Standard Specifications for Road and Bridge Construction at the following website: http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks

ROADWAY PLANS
ENGINEER OF RECORD:

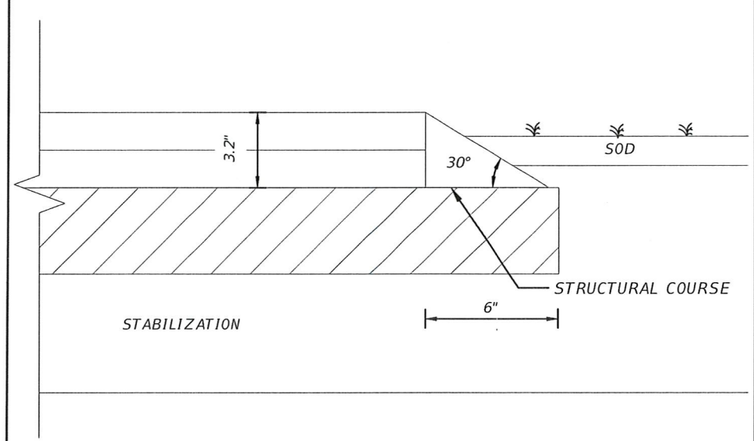
JAMES H. PITMAN
P.E. NO.:42035
NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CONTRACT NO.:
VENDOR NO.:
CERTIFICATE OF AUTHORIZATION NO.: 29011

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	16	1



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

SAFETY EDGE DETAIL



TYPICAL SECTION 1

SW CALLAHAN AVENUE
STA. 10+00.00 TO 11+82.16
DESIGN SPEED = 35 MPH

LEFT LANE MILLING AND RESURFACING
USE VARIABLE DEPTH MILLING TO ESTABLISH CROSS SLOPE.
MILL ZERO INCHES AT CENTERLINE AND MILL OUT ON A .01 CROSS SLOPE
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

RIGHT LANE OVERBUILD AND RESURFACING
PLACE VARIABLE DEPTH TYPE SP 9.5
OVERBUILD COURSE ON A .03 CROSS SLOPE.
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

WIDENING
OPTIONAL BASE GROUP 06 WITH
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.5")
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

NOTE:

1. RIGHT OF WAY VARIES WITH LIMITED DOCUMENTATION AND MONUMENTATION.
2. EXISTING MISCELLANEOUS PAVEMENT TO BE REMOVED FROM EDGE OF TRAVEL LANE.
3. WIDENING STRIP WIDTH WILL VARY. A TWO FOOT MINIMUM IS REQUIRED FOR CONSTRUCTABILITY PURPOSES. THE RESULTING LANE WIDTH WILL EXCEED 11" IN SOME PLACES.
4. VARIABLE MILLING WILL ENCOUNTER EXISTING BASE AT SOME STATIONS. PRIME THIS EXPOSED BASE IN ACCORDANCE WITH SPEC 300-2.
5. USE VARIABLE DEPTH OVERBUILD COURSE TO BRING STEEP CROSS SLOPES UP TO A .03 SLOPE.
6. PROPOSED ℄ OF CONSTRUCTION DOES NOT MATCH EXISTING CENTER OF PAVEMENT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

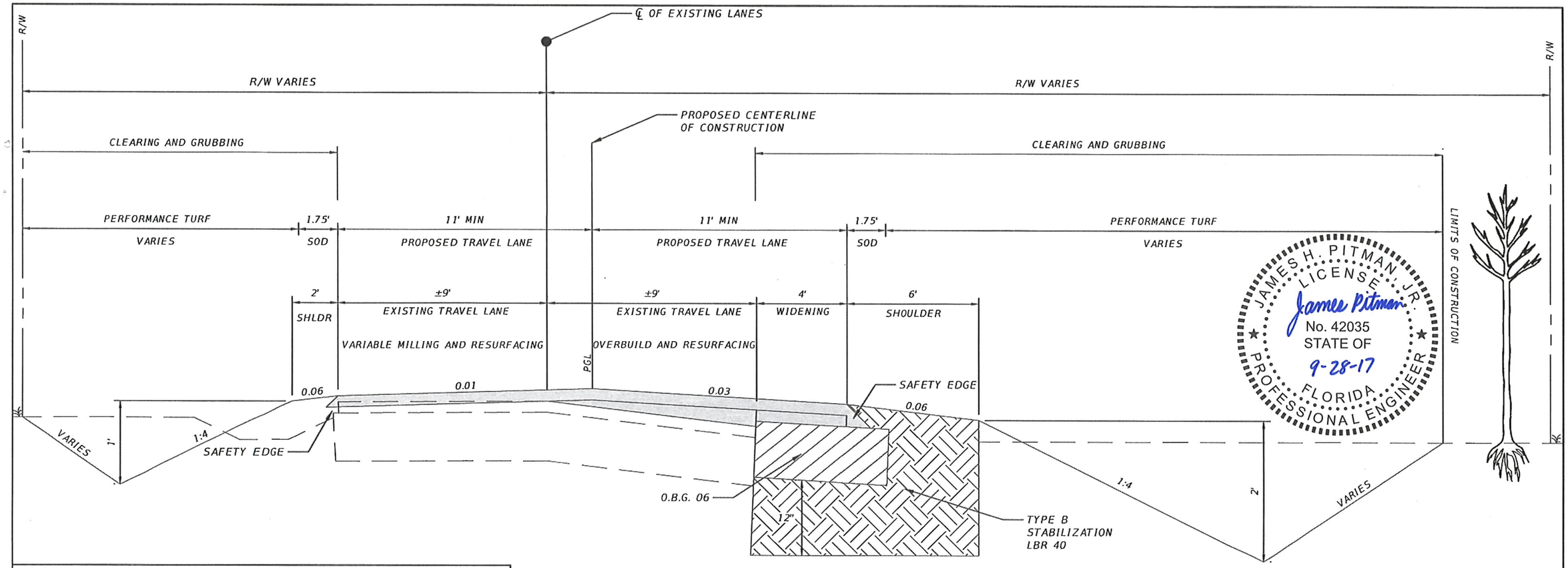
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TYPICAL SECTION

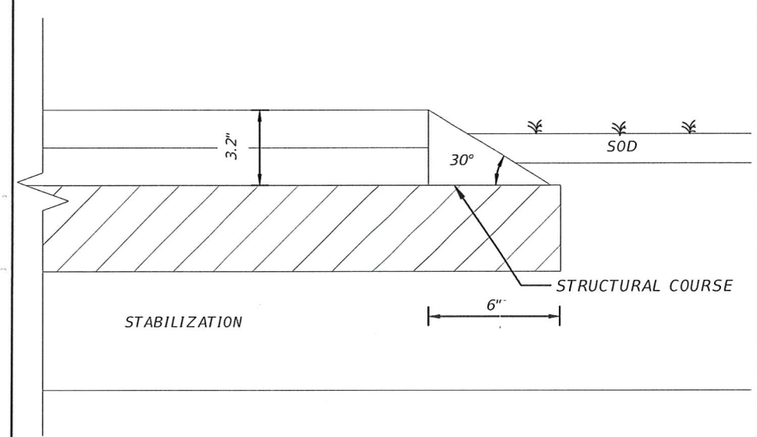
SHEET NO. 2

Anthony Fantauzzo 4/19/2017 8:53:22 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

SAFETY EDGE DETAIL



TYPICAL SECTION 2

SW CALLAHAN AVENUE
STA. 11+82.16 TO 14+66.49
DESIGN SPEED = 35 MPH

LEFT LANE MILLING AND RESURFACING
USE VARIABLE DEPTH MILLING TO ESTABLISH CROSS SLOPE.
MILL ZERO INCHES AT CENTERLINE AND MILL OUT ON A .01 CROSS SLOPE
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

RIGHT LANE OVERBUILD AND RESURFACING
PLACE VARIABLE DEPTH TYPE SP 9.5
OVERBUILD COURSE ON A .03 CROSS SLOPE.
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

WIDENING
OPTIONAL BASE GROUP 06 WITH
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.5")
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

NOTE:

1. RIGHT OF WAY VARIES WITH LIMITED DOCUMENTATION AND MONUMENTATION.
2. EXISTING MISCELLANEOUS PAVEMENT TO BE REMOVED FROM EDGE OF TRAVEL LANE.
3. DO NOT MILL THE LEFT ROADWAY BETWEEN STA. 14+15.00 AND STA. 14+85.00. MATCH EXISTING CROSS SLOPE.
4. VARIABLE MILLING WILL ENCOUNTER EXISTING BASE AT SOME STATIONS. PRIME THIS EXPOSED BASE IN ACCORDANCE WITH SPEC 300-2.
5. USE VARIABLE DEPTH OVERBUILD COURSE TO BRING STEEP CROSS SLOPES UP TO A .03 SLOPE.
6. PROPOSED ℄ OF CONSTRUCTION DOES NOT MATCH EXISTING CENTER OF PAVEMENT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

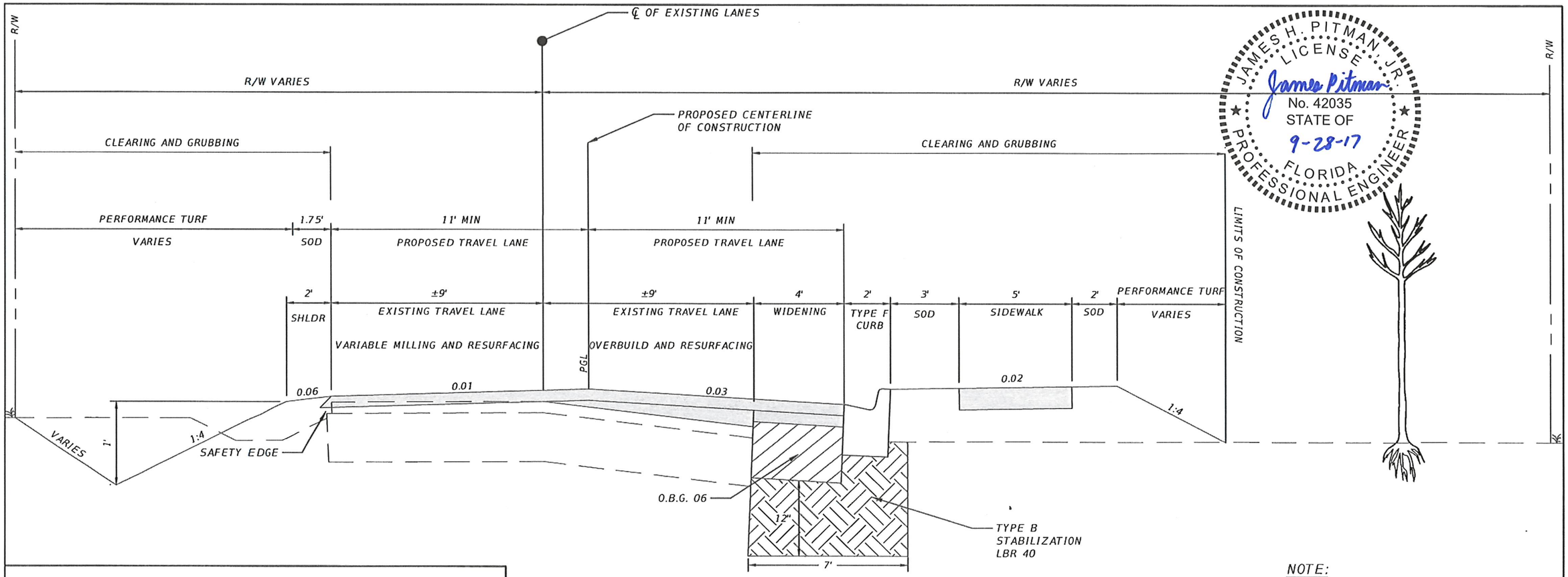
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TYPICAL SECTION

SHEET NO. 3

Anthony Fantauzzo 4/19/2017 8:53:22 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



JAMES H. PITMAN, JR. LICENSE No. 42035 STATE OF FLORIDA PROFESSIONAL ENGINEER
James Pitman
9-28-17

TYPICAL SECTION 3

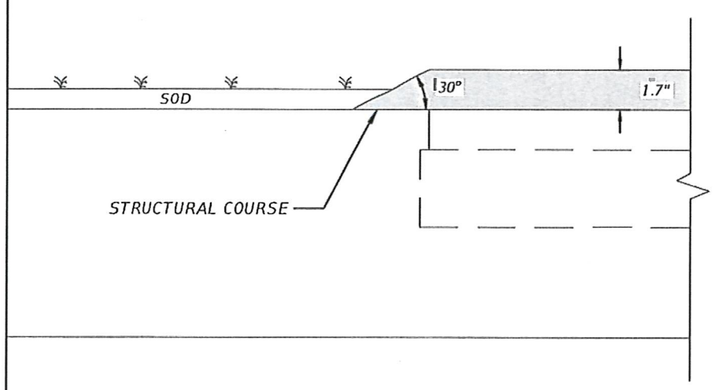
SW CALLAHAN AVENUE
STA. 14+66.49 TO 19+00.00
DESIGN SPEED = 35 MPH

LEFT LANE MILLING AND RESURFACING
USE VARIABLE DEPTH MILLING TO ESTABLISH CROSS SLOPE.
MILL ZERO INCHES AT CENTERLINE AND MILL OUT ON A .01 CROSS SLOPE
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

RIGHT LANE OVERBUILD AND RESURFACING
PLACE VARIABLE DEPTH TYPE SP 9.5
OVERBUILD COURSE ON A .03 CROSS SLOPE.
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

WIDENING
OPTIONAL BASE GROUP 06 WITH
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.5")
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

SAFETY EDGE DETAIL



NOTE:

1. RIGHT OF WAY VARIES WITH LIMITED DOCUMENTATION AND MONUMENTATION.
2. EXISTING MISCELLANEOUS PAVEMENT TO BE REMOVED FROM EDGE OF TRAVEL LANE.
3. FROM STA. 17+60.00 TO STA. 21+00.00, VARIABLE MILLING AND OVERBUILD MAY NOT BE NEEDED. IF CROSS SLOPES ARE WITHIN THE RANGE OF -.01 TO -.03, THE CONTRACTOR CAN MATCH EXISTING SLOPES.
4. VARIABLE MILLING WILL ENCOUNTER EXISTING BASE AT SOME STATIONS. PRIME THIS EXPOSED BASE IN ACCORDANCE WITH SPEC 300-2.
5. USE VARIABLE DEPTH OVERBUILD COURSE TO BRING STEEP CROSS SLOPES UP TO A .03 SLOPE.
6. PROPOSED ℄ OF CONSTRUCTION DOES NOT MATCH EXISTING CENTER OF PAVEMENT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

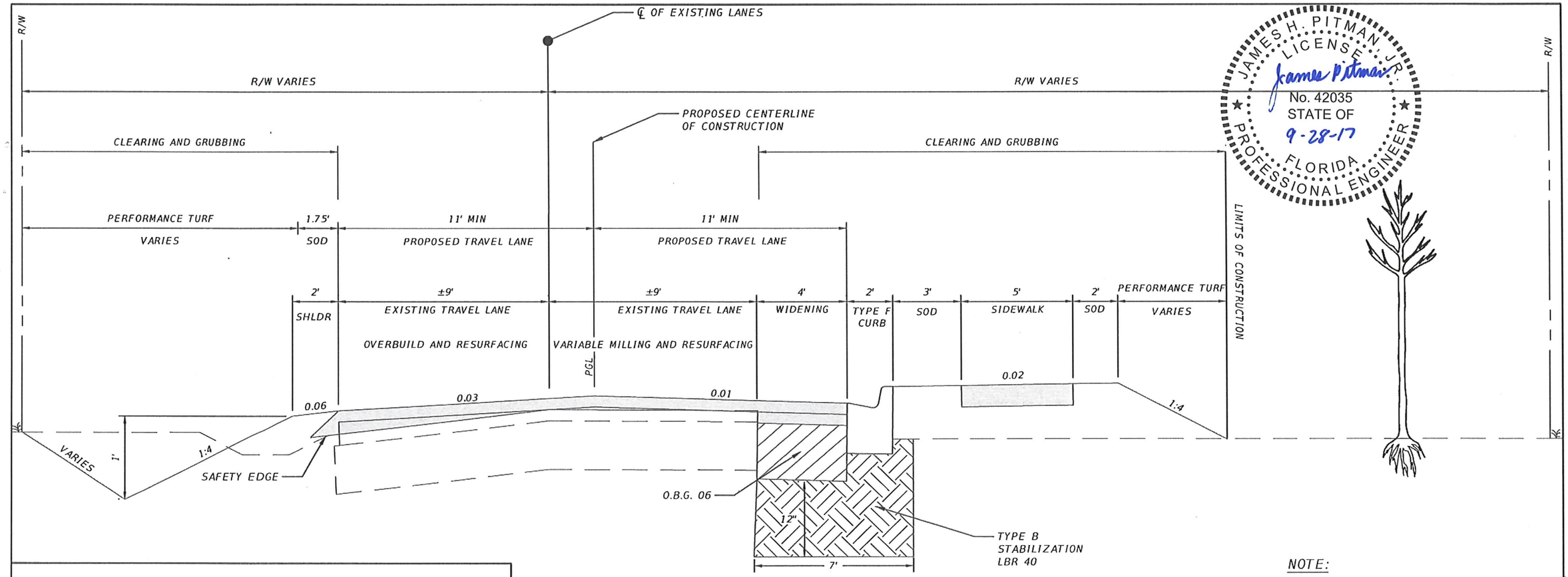
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TYPICAL SECTION

SHEET NO. 4

Anthony Fantauzzo 4/19/2017 8:53:22 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



JAMES H. PITMAN, JR. LICENSE No. 42035 STATE OF FLORIDA PROFESSIONAL ENGINEER
James Pitman Jr.
9-28-17

TYPICAL SECTION 4

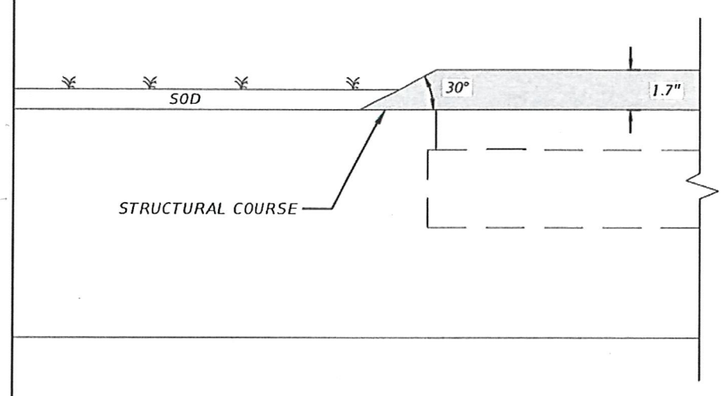
SW CALLAHAN AVENUE
STA. 19+00.00 TO 28+75.30
DESIGN SPEED = 35 MPH

LEFT LANE OVERBUILD AND RESURFACING
PLACE VARIABLE DEPTH TYPE SP 9.5
OVERBUILD COURSE ON A .03 CROSS SLOPE.
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

RIGHT LANE MILLING AND RESURFACING
USE VARIABLE DEPTH MILLING TO ESTABLISH CROSS SLOPE.
MILL ZERO INCHES AT CENTERLINE AND MILL OUT ON A .01 CROSS SLOPE
PLACE TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

WIDENING
OPTIONAL BASE GROUP 06 WITH
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.5")
TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7")

SAFETY EDGE DETAIL



NOTE:

1. RIGHT OF WAY VARIES WITH LIMITED DOCUMENTATION AND MONUMENTATION.
2. EXISTING MISCELLANEOUS PAVEMENT TO BE REMOVED FROM EDGE OF TRAVEL LANE.
3. FROM STA. 17+60.00 TO STA. 21+00.00, VARIABLE MILLING AND OVERBUILD MAY NOT BE NEEDED. IF CROSS SLOPES ARE WITHIN THE RANGE OF -.01 TO -.03, THE CONTRACTOR CAN MATCH EXISTING SLOPES.
4. VARIABLE MILLING WILL ENCOUNTER EXISTING BASE AT SOME STATIONS. PRIME THIS EXPOSED BASE IN ACCORDANCE WITH SPEC 300-2.
5. USE VARIABLE DEPTH OVERBUILD COURSE TO BRING STEEP CROSS SLOPES UP TO A .03 SLOPE.
6. PROPOSED ℄ OF CONSTRUCTION DOES NOT MATCH EXISTING CENTER OF PAVEMENT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

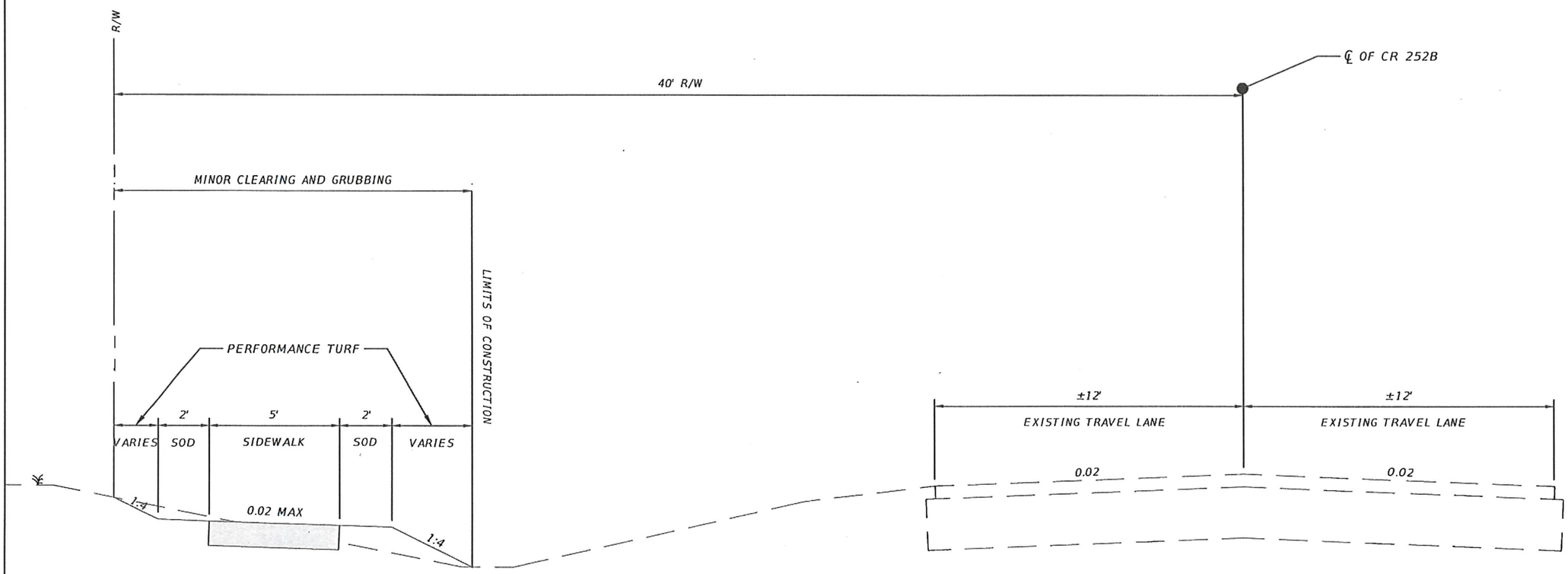
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TYPICAL SECTION

SHEET NO. 5

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



TYPICAL SECTION 5

CR 252B SIDEWALK
STA. 29+65.26 TO 33+00.18

CONSTRUCT 5' CONCRETE SIDEWALK (4" THICK)

JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

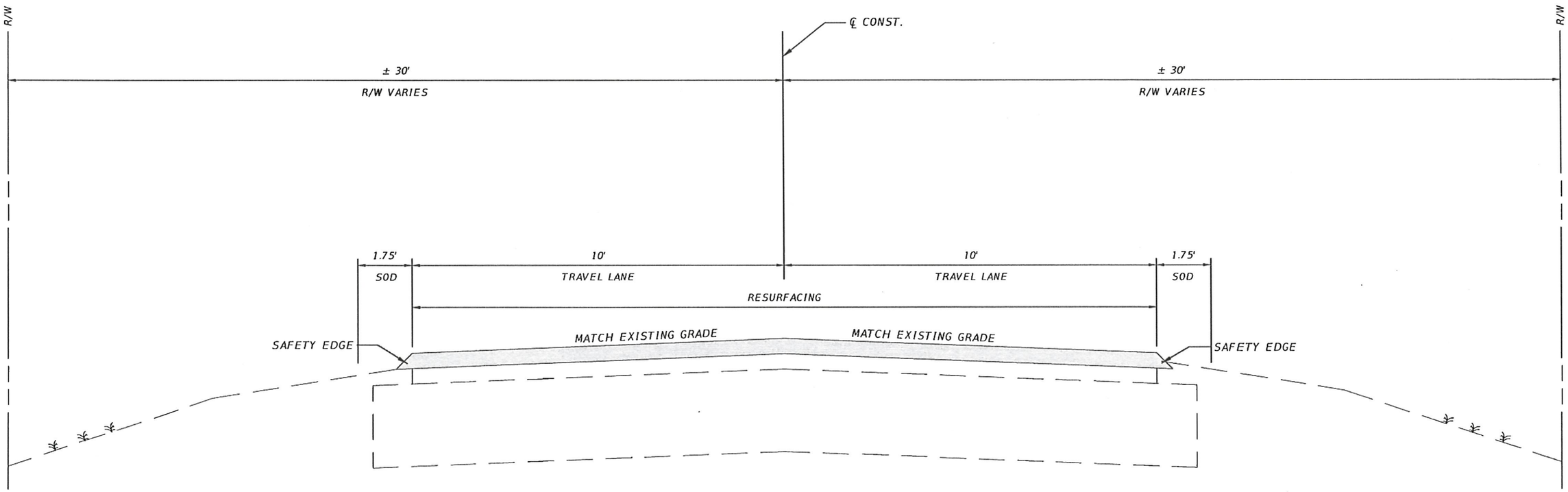
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

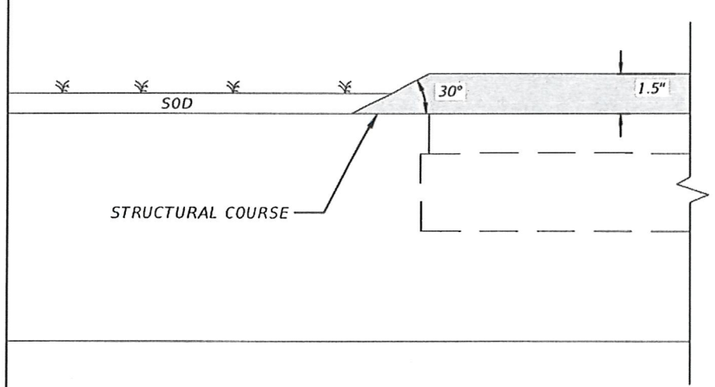
TYPICAL SECTION

SHEET NO. 6

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



SAFETY EDGE DETAIL



TYPICAL SECTION 6

SW CROSSBOW PLACE

DESIGN SPEED = 30 MPH
STA. 200+17 TO 211+72.30

RESURFACING

TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.5")

JAMES H. PITMAN, JR.
LICENSED
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

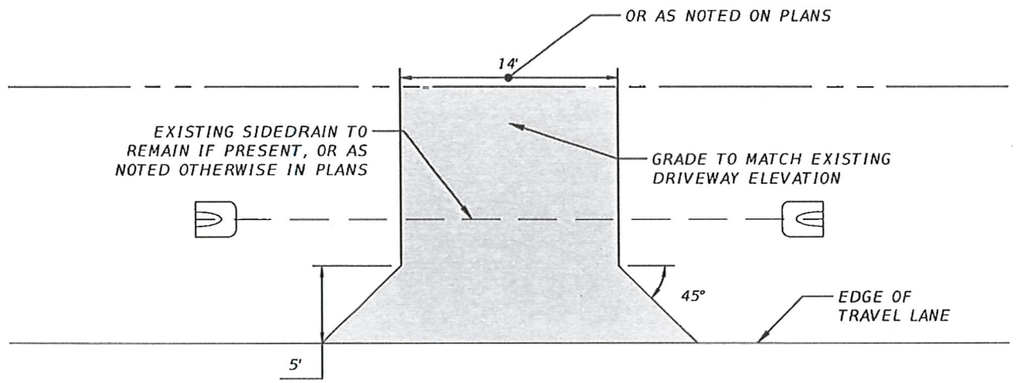
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

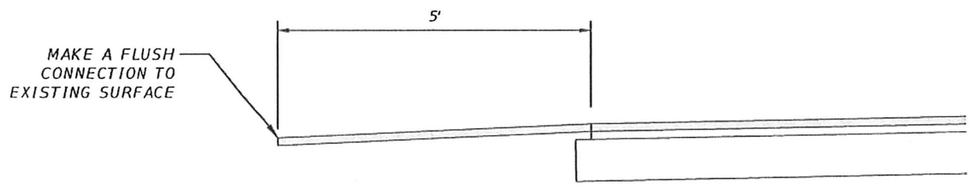
TYPICAL SECTION

SHEET NO. 7

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



PLAN VIEW



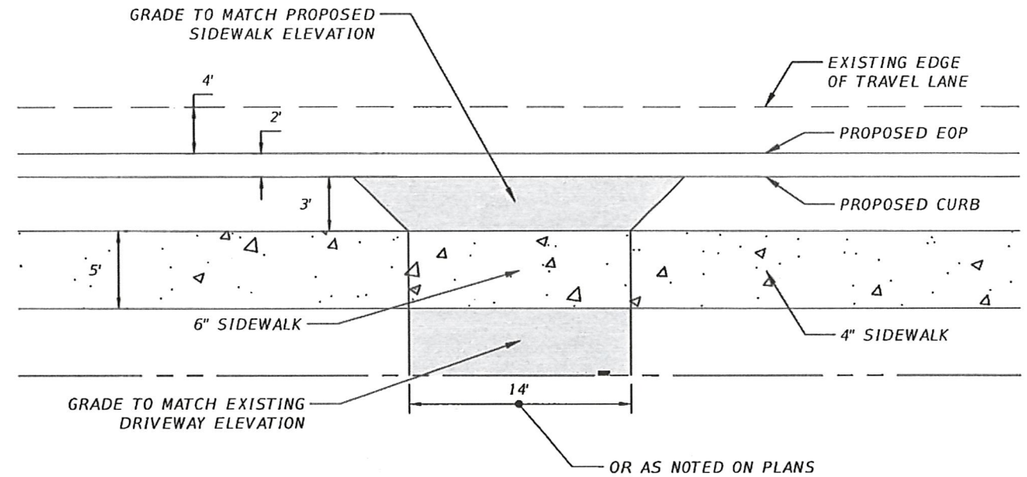
NOTES

1. ALL MATERIAL AND WORK DONE TO COMPLETE TURNOUT IS TO BE PAID FOR UNDER TURNOUT CONSTRUCTION INCLUDING ASPHALT.

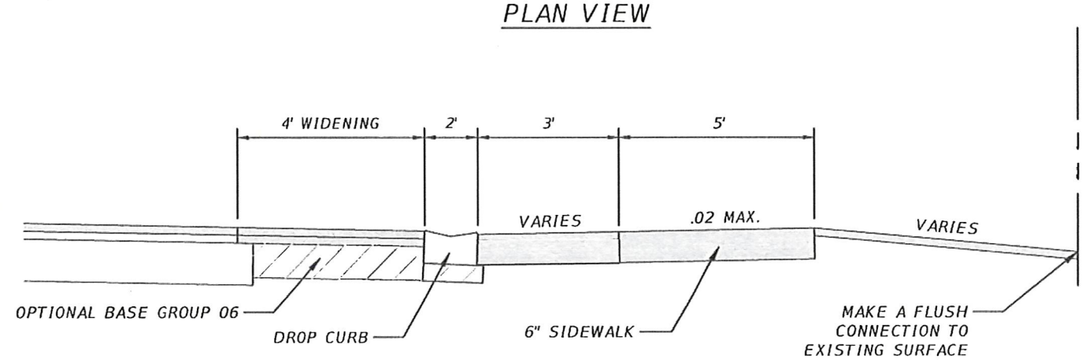
SECTION VIEW

TYPE SP STRUCTURAL COURSE (TL-B) 1.7"

1/8 PRIVATE TURNOUT FOR EX. PAVED DRWYS ON SW CALLAHAN AVE.
SCALE:N.T.S.



PLAN VIEW



NOTES

1. ALL MATERIAL AND WORK DONE TO COMPLETE TURNOUT IS TO BE PAID FOR UNDER TURNOUT CONSTRUCTION INCLUDING ASPHALT.

SECTION VIEW

TYPE SP STRUCTURAL COURSE (TL-B) 1.7"

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

2/8 PRIVATE TURNOUT FOR EX. PAVED DRWYS WITH WIDENING
SCALE:N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

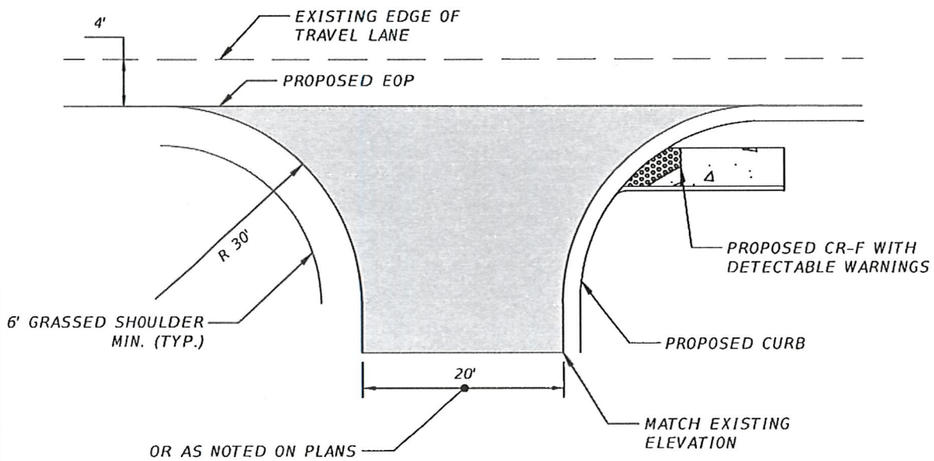
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

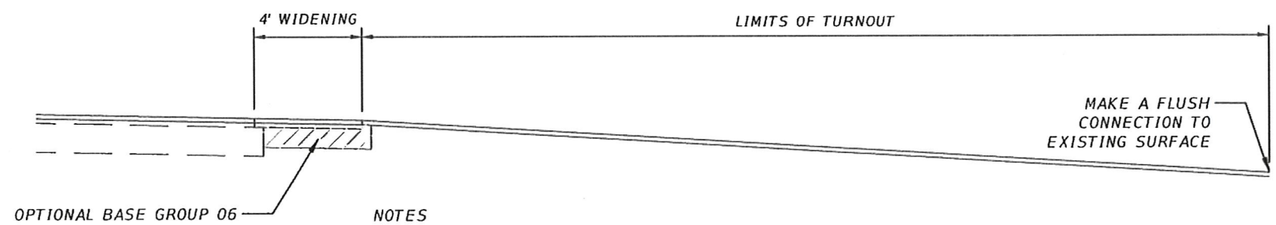
TURNOUT DETAILS

SHEET NO. 8

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



PLAN VIEW



NOTES

1. ALL MATERIAL AND WORK DONE TO COMPLETE TURNOUT IS TO BE PAID FOR UNDER TURNOUT CONSTRUCTION INCLUDING ASPHALT.

SECTION VIEW

TYPE SP STRUCTURAL COURSE (TL-B) 1.7"

1/9 PAVED TURNOUT TO EX. PAVED ROADS WITH WIDENING

SCALE:N.T.S.

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

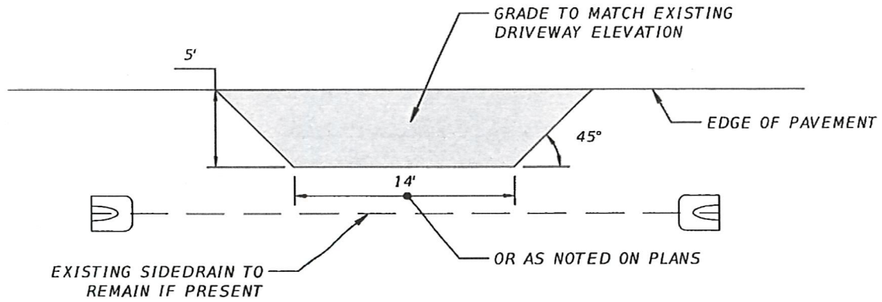
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

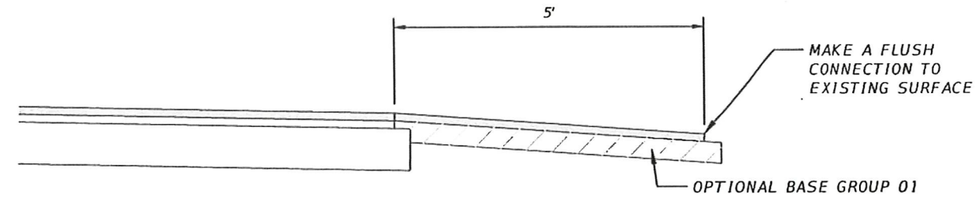
TURNOUT DETAILS

SHEET NO. 9

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg



PLAN VIEW



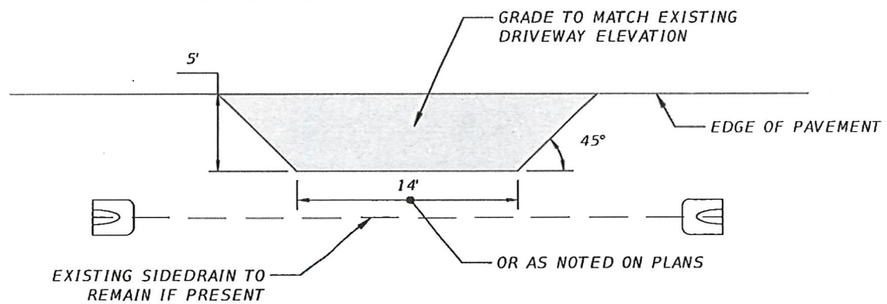
NOTES

1. ALL MATERIAL AND WORK DONE TO COMPLETE TURNOUT IS TO BE PAID FOR UNDER TURNOUT CONSTRUCTION INCLUDING ASPHALT.

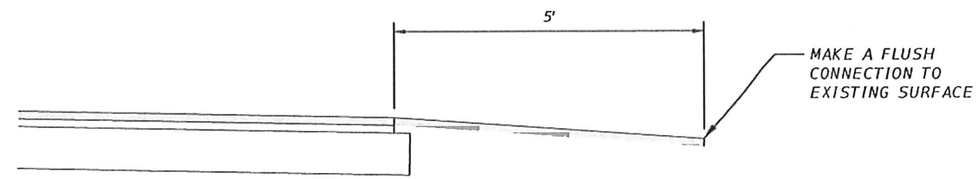
SECTION VIEW

OPTIONAL BASE GROUP 01 WITH
TYPE SP STRUCTURAL COURSE (TL-B) 1.5"

1/10 PRIVATE TURNOUT FOR DRWYS ON SW CROSSBOW PLACE
SCALE:N.T.S.



PLAN VIEW



NOTES

1. ALL MATERIAL AND WORK DONE TO COMPLETE TURNOUT IS TO BE PAID FOR UNDER TURNOUT CONSTRUCTION INCLUDING ASPHALT.

SECTION VIEW

OPTIONAL BASE GROUP 01 WITH
TYPE SP STRUCTURAL COURSE (TL-B) 1.5"

2/10 PRIVATE TURNOUT FOR EX. PAVED DRWYS ON SW CROSSBOW PLACE
SCALE:N.T.S.

JAMES H. PITMAN JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TURNOUT DETAILS

SHEET NO. 10

Anthony Fantauzzo 4/19/2017 8:53:23 AM X:\2015\L150624CCB\H. CADD\roadway\TYPSRD01.dwg

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF LAKE CITY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.

2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT AND FDOT GENERAL USE PERMIT.

3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.

4. SURVEY INFORMATION SHOWN, WAS OBTAINED FROM A BOUNDARY SURVEY PREPARED BY DONALD F. LEE & ASSOCIATES, FLORIDA CERTIFICATE NO. 7042.

5. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.

6. THE SITE IS LOCATED IN SECTIONS 10&15 TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

7. THE CONTRACTOR SHALL IMPLEMENT COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.

8. THE STORMWATER BASIN IS DESIGNED IN ACCORDANCE WITH CHAPTER 40B-400 AND 62-330 F.A.C.

9. ALL SLOPES OF THE STORMWATER BASIN SHALL BE GRASSED. ALL SLOPES 3:1 OR STEEPER SHALL BE SODDED AND ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.

10. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THOUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.

11. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED.

12. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.

13. CONTRACTOR SHALL CONTACT 811 OR 1-800-432-4770 AT LEAST 2 BUSINESS DAYS BEFORE BEGINNING CONSTRUCTION.

CONTACT PHONE NUMBERS
- AT&T (770)918-5424
- COMCAST CABLE (904)380-7574
- CLAY ELECTRIC (386)961-0106
- CITY OF LAKE CITY UTILS (386)758-5492
- LAKE CITY PUBLIC WORKS-TRAFFIC CONTROL (386)758-5492
- LAKE CITY NATURAL GAS-PUBLIC WORKS (386)758-5405
- AT&T/DISTRIBUTION (561)997-0240

14. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS, PRIOR TO PLACING ANY BASE MATERIAL. DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.

15. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARDS INDEX 500.

16. THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

17. NO WORK SHALL BE PERFORMED ON SATURDAY, SUNDAY, OR COUNTY RECOGNIZED HOLIDAYS WITHOUT A WRITTEN APPROVAL FROM THE COUNTY ENGINEER.

18. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. SUBMIT THE SURVEY TO THE ENGINEER ON REPRODUCIBLE 20LB. VELLUM. A COPY OF THE AS-BUILT PLANS (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO THE COLUMBIA COUNTY COMMISSIONER) AND THE ENGINEER.

19. THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.

20. IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDIAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BE A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.

21. CONTRACTOR SHALL MAINTAIN MAILBOXES DURING CONSTRUCTION. ALL MAILBOXES SHALL BE RELOCATED AS NECESSARY.

22. IF A WATER MAIN BELL JOINT IS EXPOSED DURING CONSTRUCTION, CALL CITY OF LAKE CITY UTILITIES TO NOTIFY THEM OF POSSIBLE NEED TO INSTALL JOINT RESTRAINTS. THE CITY OF LAKE CITY WILL ALSO SUPPLY ADJUSTABLE VALVE BOXES.

23. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AROUND WATER MAINS, ESPECIALLY IN AREAS WHERE THE PROPOSED STORM WATER SYSTEM CROSSES THE EXISTING WATER MAINS.

PAY ITEM NOTES

0102010000-MAINTENANCE OF TRAFFIC- INCLUDES ALL ELEMENTS REQUIRED FOR THE TRAFFIC CONTROL PLAN, CONSTRUCTION STAKEOUT, AND INCLUDES TEMPORARY CENTERLINE DELINEATION AND STOP BARS PLACED AT ALL NON-WORKING TIMES.

0104010030-SEDIMENT BARRIER- INCLUDES HAY BALES, STAKED SILT FENCE, AND OTHER ITEMS NECESSARY TO MINIMIZE EROSION AND PREVENT SEDIMENT FROM LEAVING THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER.

0110010100-CLEARING AND GRUBBING- INCLUDES REMOVAL OF ALL PAVEMENT, PIPE, VEGETATION, OR ANY OTHER DEMOLITION REQUIRED FOR THE PROJECT.
-REMOVAL OF BUILDING- REMOVE AND DISPOSE OF THE EXISTING BRICK HOME RIGHT OF STA. 22+50, IN ACCORDANCE WITH FDOT SPECIFICATIONS 110-5.1 AND 110-6.5. INCLUDES THE COST OF ANY ASBESTOS MITIGATION AND PROPER DISCONNECTION OF UTILITIES. ALSO INCLUDE THE COST OF REMOVAL AND DISPOSAL.

0120020200-BORROW EXCAVATION, TRUCK MEASURE- TO BE USED AT DIRECTION OF ENGINEER. ONCE ALL REGULAR EXCAVATION HAS BEEN COMPLETED THROUGHOUT THE PROJECT, QUANTITY MAY BE INCREASED, DECREASED OR OMITTED.

0120071000-REGULAR EXCAVATION (3-R PROJECTS ONLY)- INCLUDES ALL EARTH MOVING ACTIVITIES NECESSARY FOR CONSTRUCTION OF THE PROJECT INCLUDING THE CULVERT REMOVAL AND TREE REMOVAL.

0160010000-COMERCIAL STABILIZING MATERIAL- APPLY 2" OF MATERIAL AS NEEDED TO MEET LBR, QUANTITY IS ESTIMATED APPLYING 2" OF MATERIAL ANY AREA ROADWAY MATERIAL NEEDING TO ACHIEVE HIGHER LBR REQUIREMENTS SHALL BE PRESCRIBED BY CERTIFIED TESTING LABORATORY BEFORE PLACEMENT OF MATERIAL BEGINS. ANY REAPPLICATION OF MATERIAL TO MEET LBR REQUIREMENTS IS AT THE CONTRACTORS EXPENSE. ANY AREA MAY BE INCREASED, DECREASED, OR OMITTED.

0160040000-STABILIZING (ROADWAY AND SHOULDER)- INCLUDES MIXING, COMPACTING AND MEETING LBR REQUIREMENTS.

0286010000-TURNOUT CONSTRUCTION- INCLUDES THE EXCAVATION, COMPACTION OF SUBGRADE, BASE MATERIAL, BASE CONSTRUCTION AND ASPHALT PAVEMENT FOR ALL TURNOUTS.

0327070010-MILLING EXIST ASPH PAVT, 1" AVG DEPTH- MILLING HAS A VARIABLE DEPTH AND IS USED FOR CROSS-SLOPE CORRECTION IN SPECIFIED SECTIONS.

0334010120-SUPERPAVE ASPHALT CONCRETE, TRAFFIC B- CONTAINS ±73 TONS FOR OVERBUILD

0570010100-PERFORMANCE TURF- INCLUDES DRESSING SHOULDERS; AND ALL SEED AND MULCHING REQUIRED FOR PROJECT.

0665010110-PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD-SPECIFICALLY INCLUDES PIEZO PEDESTRIAN PUSH BUTTON.

0700020011-SINGLE POST SIGN, F&I LESS THAN 12 SF- INCLUDES FURNISHING AND INSTALLING OF TWO STREET NAME PANELS FOR EACH R1-1 STOP SIGN LOCATION.

0710090000-PAINTED PAVEMENT MARKINGS- ALL PERMANENT PAINTED PAVEMENT MARKINGS SHALL RECEIVE TWO APPLICATIONS OF PAINT: THE FIRST APPLICATION SHALL OCCUR AS SOON AS POSSIBLE AFTER THE FINAL SURFACE IS PLACED AND THE FINAL APPLICATION SHALL BE PLACED 14 DAYS LATER. CROSSWALK PAVEMENT MARKINGS SHALL SPECIFICALLY INCLUDE PREFORMED THERMOPLASTIC.

JAMES H. PITMAN JR. LICENSED PROFESSIONAL ENGINEER FLORIDA
James Pitman
No. 42035
STATE OF
9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

NOTES

SHEET NO. 11

SUMMARY OF TURNOUTS

LOCATION CENTER OF TURNOUT STA.	SIDE	0286 1 SY P	0286 1 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
10+20.35	LT	22.64			
14+47.58	RT	150.92			
17+96.65	LT	18.75			
19+23.06	LT	19.86			
22+08.30	LT	26.61			
23+39.37	LT	26.48			
23+67.34	RT	40.77			
24+75.88	LT	27.00			
27+41.49	RT	18.97			
201+77.30	LT	13.04			
203+31.70	LT	13.04			
204+56.51	RT	19.90			
205+49.01	RT	10.56			
206+64.36	RT	10.56			
207+01.64	LT	10.56			
207+80.08	RT	10.56			
208+26.29	LT	10.56			
208+83.41	LT	10.56			
208+93.16	RT	10.56			
210+08.13	RT	10.56			
210+30.23	LT	10.56			
210+85.69	LT	10.56			
211+29.11	RT	10.56			
	SUB-TOTAL:	514.14			
	TOTAL:	514.14			

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SUMMARY OF QUANTITIES

SHEET NO. 12

SUMMARY OF STORM SEWER SYSTEM

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	OPT. ROUND (FT)	ROUND CONCRETE PIPE (FT)		INLETS	DBI	DBI	MES	
								P-4	TYPE C	TYPE D		
					15"	18"	24"	<10	<10	<10	24"	REMARKS
P	1	14+71.36	LT	DBI, PIPE		44			1			SINGLE SLOT WEST SIDE
F												
P	2	14+24.85	LT	DBI, PIPE		52			1			
F												
P	3	14+07.28	RT	DBI, PIPE			304			1		SINGLE SLOT SOUTH SIDE
F												
P	4	17+14.39	RT	INLET, PIPE			120	1				3'6" X 3'6" P BOTTOM
F												
P	5	18+37.88	RT	INLET, PIPE			208	1				3'6" X 3'6" P BOTTOM
F												
P	5A	18+37.88	RT	DBI, PIPE	5				1			
F												
P	6	20+49.31	RT	INLET, PIPE			61*	1				3'6" X 3'6" P BOTTOM
F												
P	7	20+49.31	RT	MES							1	IN POND
F												
P	8	22+76.98	LT	DBI, PIPE			40		1			DBL. SLOT N & S SIDE
F												
P	9	22+76.98	RT	INLET, PIPE			45*	1				3'6" X 3'6" P BOTTOM
F												
P	10	22+76.98	RT	MES							1	IN POND
F												
P	11	24+72.28	RT	DBI, PIPE		192			1			
F												
P	12	26+67.41	RT	INLET, PIPE		192		1				3'6" X 3'6" P BOTTOM
F												
SUBTOTALS				PLAN QUANTITY		480	778	5	5		2	
				FINAL QUANTITY								

*PIPE LENGTH SHOWN IS BASED ON THE PAYMENT METHOD DESCRIBED IN DESIGN STANDARD 272 WHICH DEDUCTS THE "F" DIMENSION. PHYSICAL "TIP TO TIP" LENGTHS ARE SHOWN ON THE PLAN SHEETS.

SUMMARY OF SIDE DRAINS & MITERED END SECTIONS

LOCATION	SIDE	PIPE DIAMETER	PIPE LENGTH	MES	DESIGN NOTES	CONSTRUCTION REMARKS
CENTER OF DRIVE		IN	LF	EA		
17+96.65	LT	10	30*	2	CORREGATED METAL	
19+23.06	LT	10	30*	2	CORREGATED METAL	
22+08.30	LT	10	30*	2	CORREGATED METAL	
23+39.37	LT	10	30*	2	CORREGATED METAL	
24+75.88	LT	10	30*	2	CORREGATED METAL	
29+72.60	LT	18	24*	2	CORREGATED METAL	
SUB-TOTAL			174	12		
PLAN TOTAL			174	12		
TOTAL			174	12		

*PIPE LENGTH SHOWN IS BASED ON THE PAYMENT METHOD DESCRIBED IN DESIGN STANDARD 272 WHICH DEDUCTS THE "F" DIMENSION. PHYSICAL "TIP TO TIP" LENGTHS ARE SHOWN ON THE PLAN SHEETS.

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

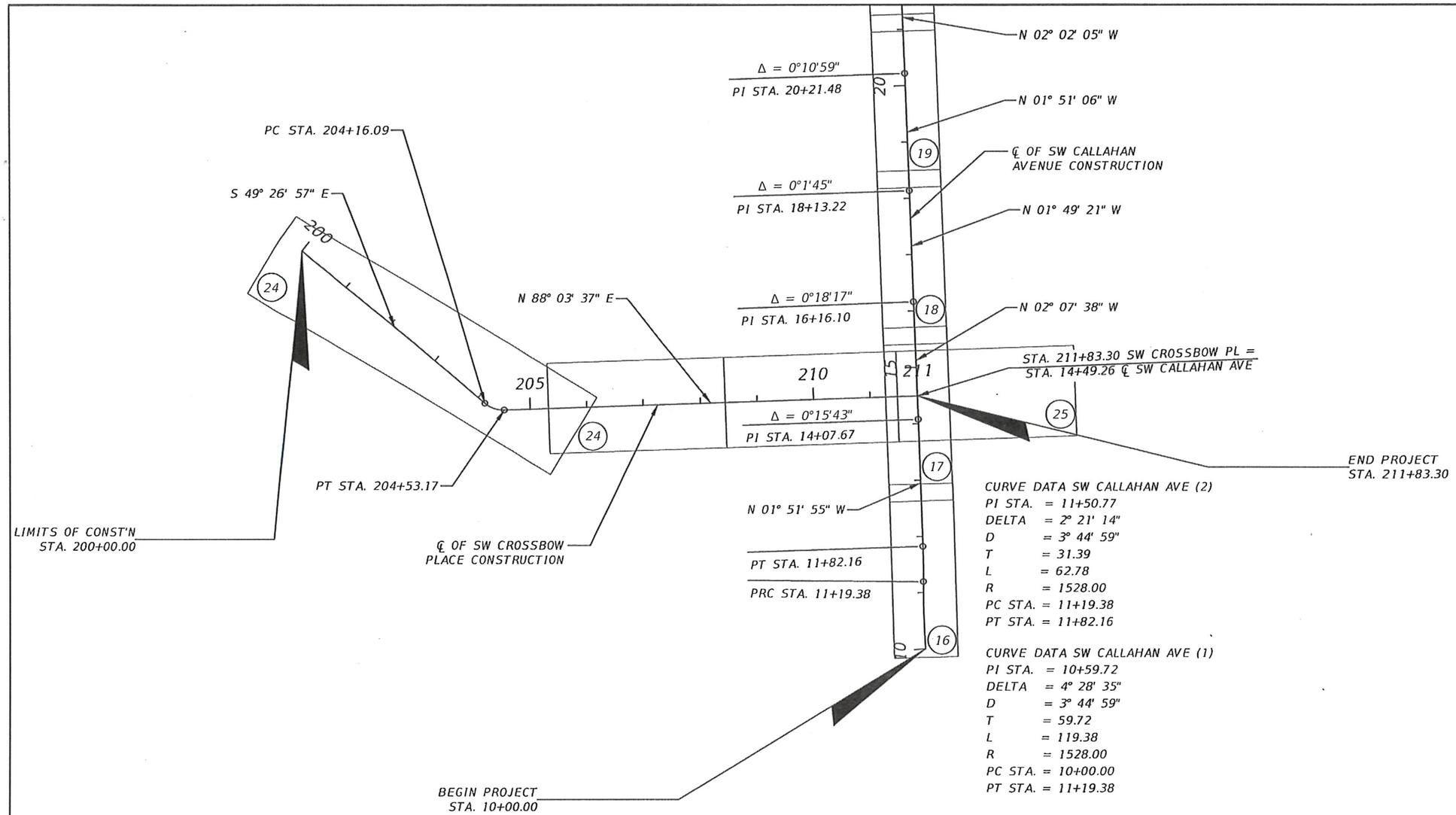
JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 13



CURVE DATA SW CALLAHAN AVE (2)
PI STA. = 11+50.77
DELTA = 2° 21' 14"
D = 3° 44' 59"
T = 31.39
L = 62.78
R = 1528.00
PC STA. = 11+19.38
PT STA. = 11+82.16

CURVE DATA SW CALLAHAN AVE (1)
PI STA. = 10+59.72
DELTA = 4° 28' 35"
D = 3° 44' 59"
T = 59.72
L = 119.38
R = 1528.00
PC STA. = 10+00.00
PT STA. = 11+19.38

*SEE PLAN SHEETS FOR REFERENCE POINTS
AND BENCHMARKS

JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

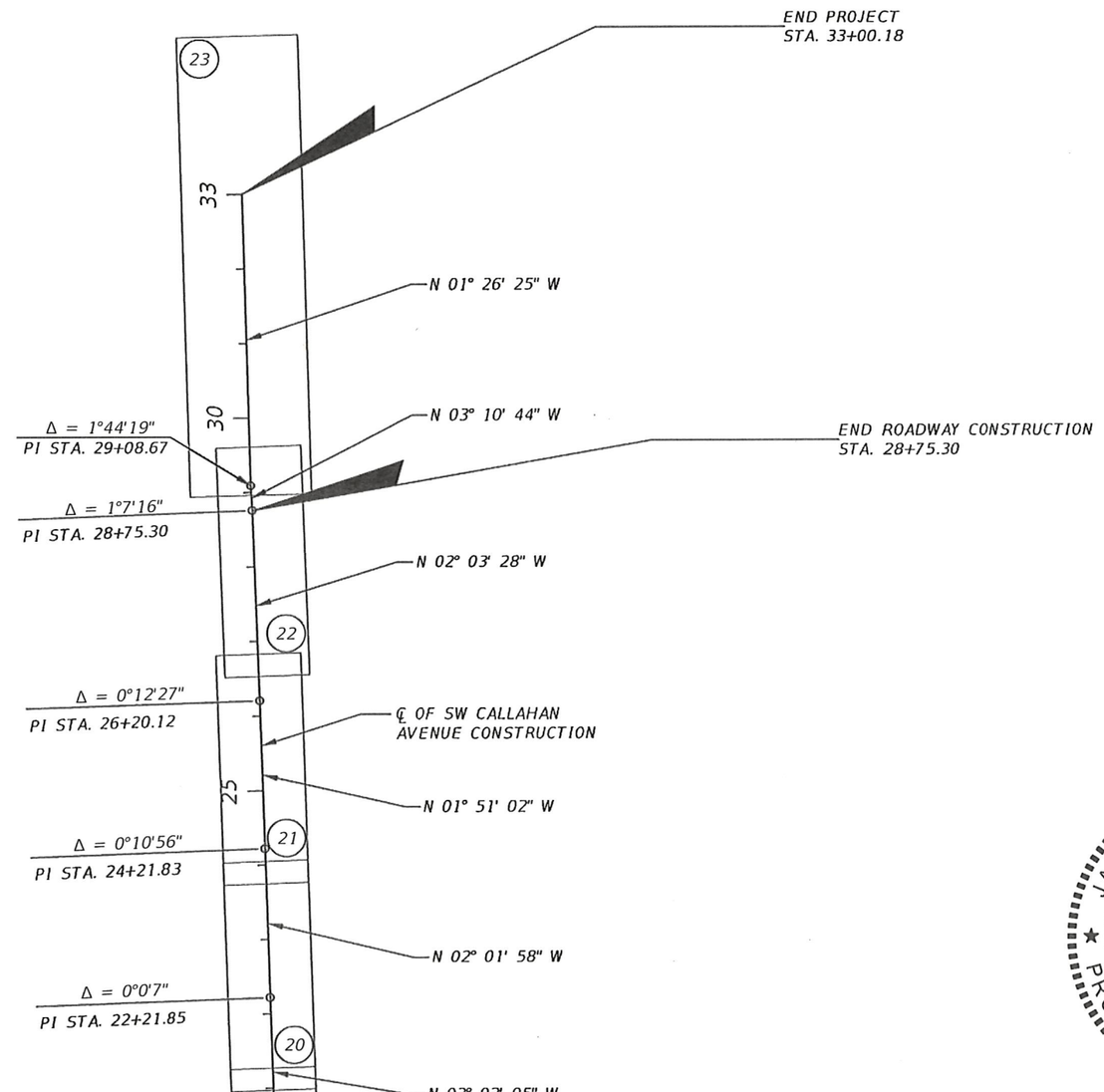
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

PROJECT LAYOUT

SHEET NO. 14

Anthony Fantauzzo 4/19/2017 8:53:53 AM X:\2015\L150624CCB\H. CADD\roadway\PLAYRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

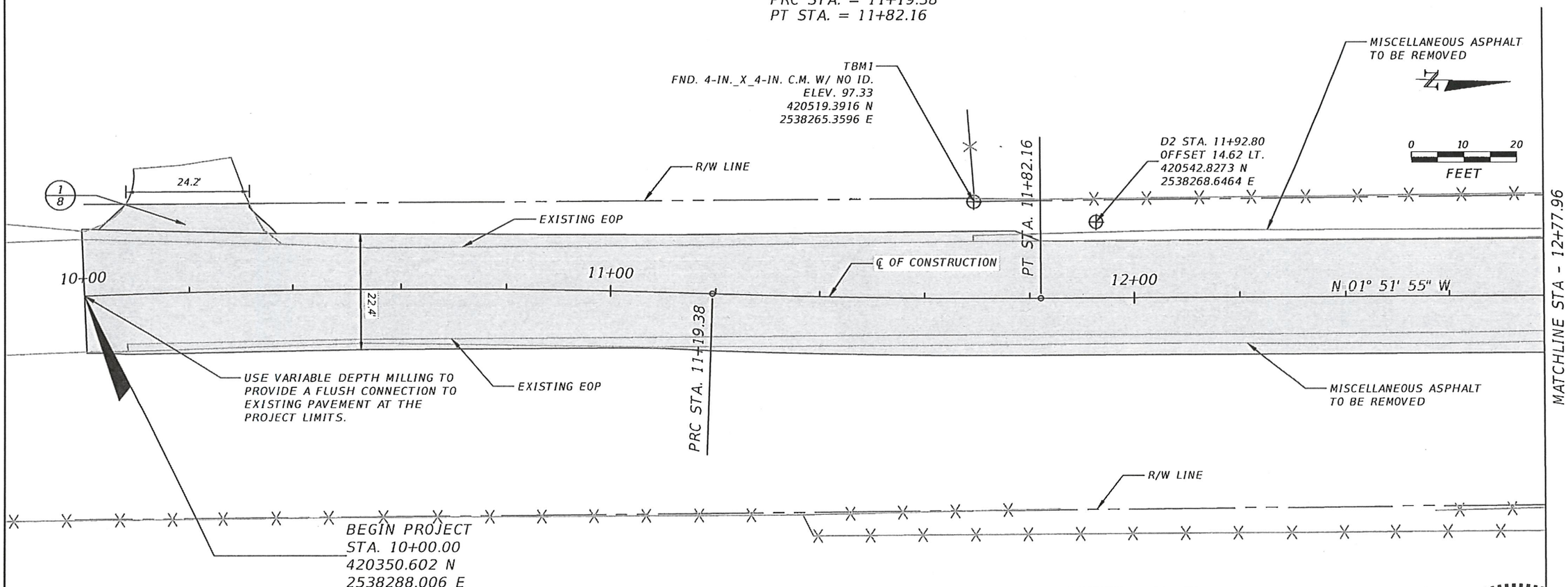
PROJECT LAYOUT

SHEET NO. 15

Anthony Fantauzzo 4/19/2017 8:53:53 AM

X:\2015\L150624CCB\H. CADD\roadway\PLAYRD01.dwg

CURVE DATA SW CALLAHAN AVE (2)
PI STA. = 11+50.77
DELTA = 2° 21' 14"
D = 3° 44' 59"
T = 31.39
L = 62.78
R = 1528.00
PRC STA. = 11+19.38
PT STA. = 11+82.16



CURVE DATA SW CALLAHAN AVE (1)
PI STA. = 10+59.72
DELTA = 4° 28' 35"
D = 3° 44' 59"
T = 59.72
L = 119.38
R = 1528.00
PC STA. = 10+00.00
PRC STA. = 11+19.38

JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

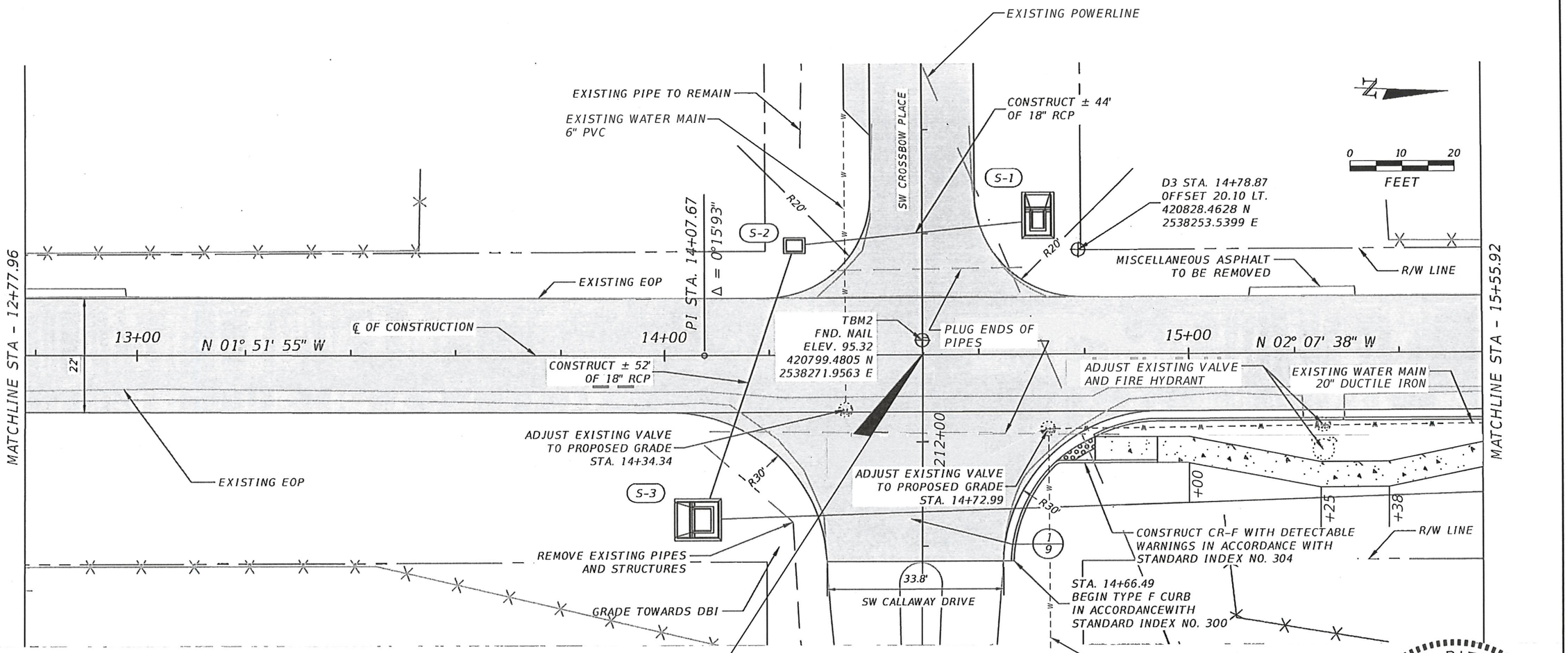
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 16

Anthony Fantauzzo 4/19/2017 8:53:54 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg



JAMES H. PITMAN, JR.
LICENSED
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

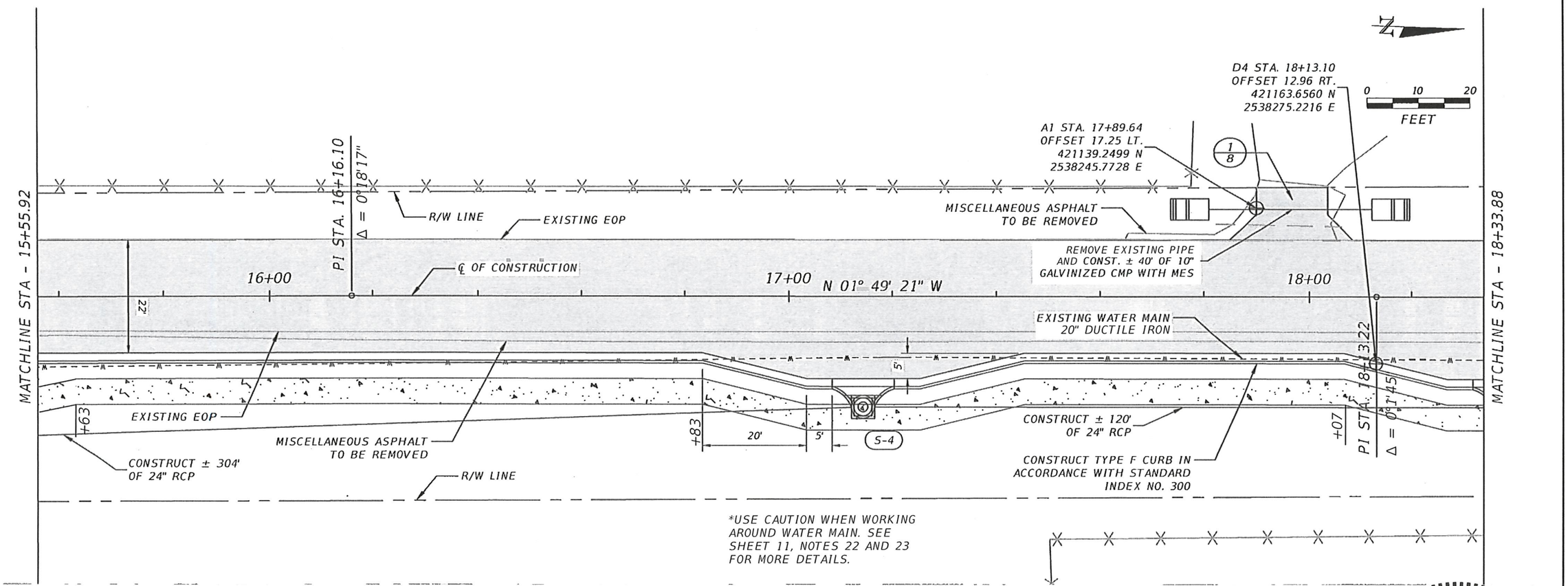
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 17

Anthony Fantauzzo 4/19/2017 8:53:55 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

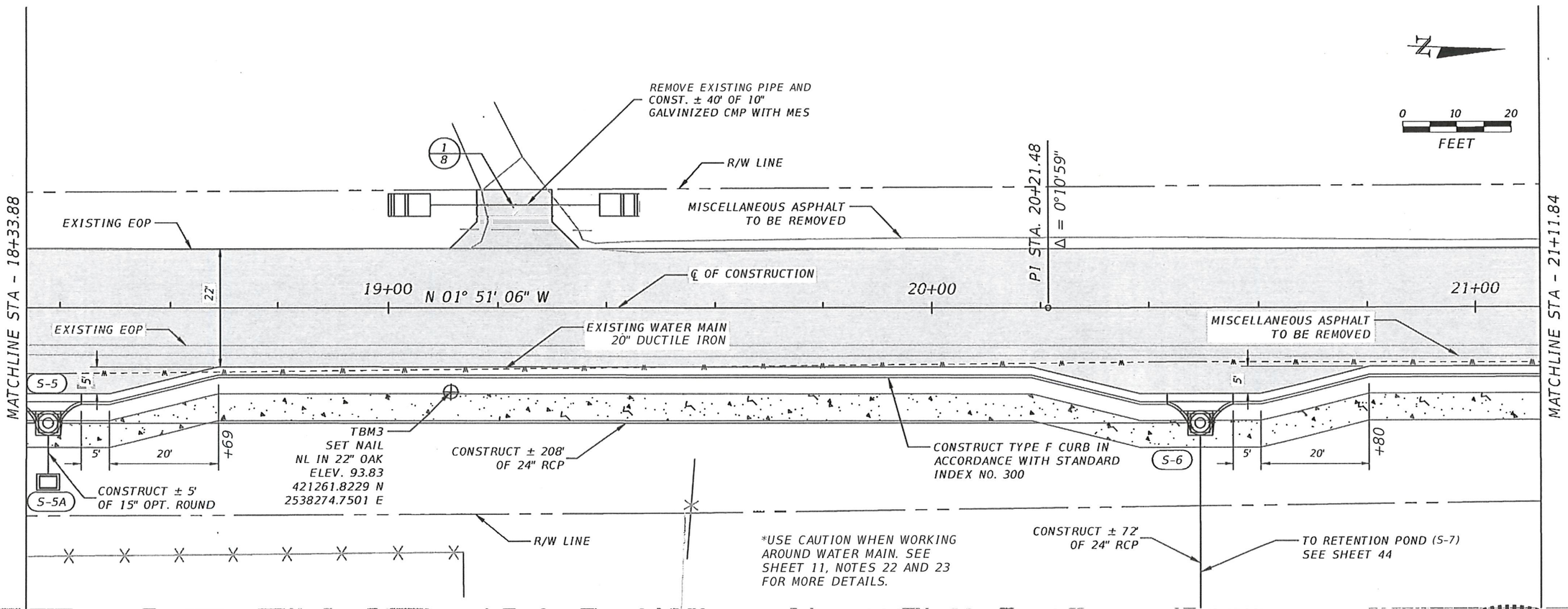
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 18

Anthony Fantauzzo 4/19/2017 8:53:57 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

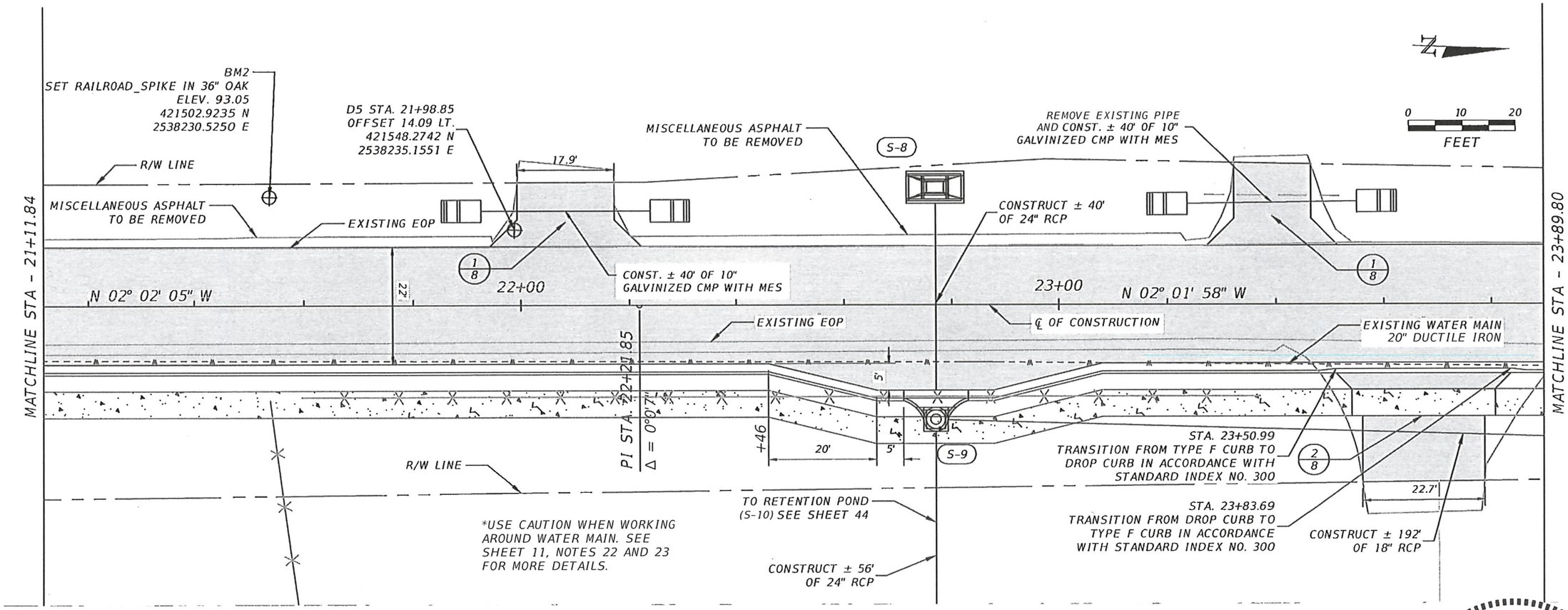
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 19

Anthony Fantauzzo 4/19/2017 8:53:58 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

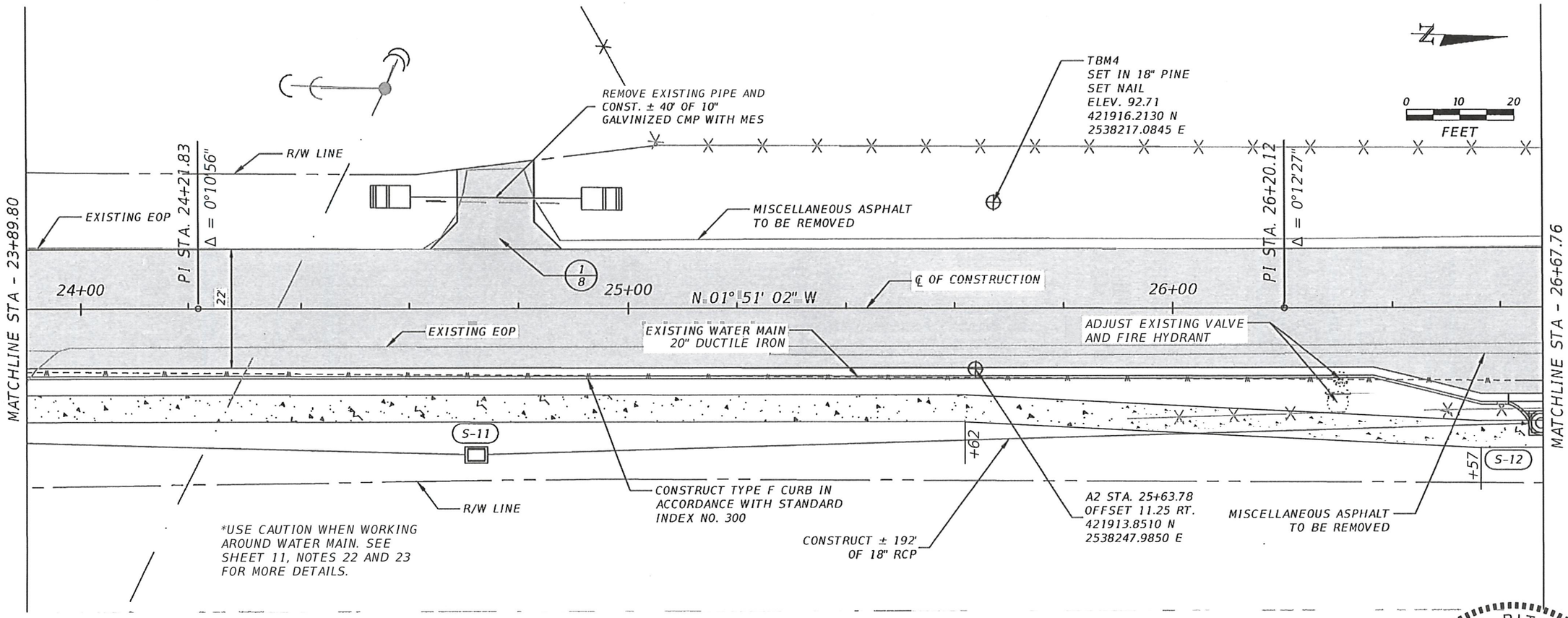
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 20

Anthony Fantauzzo 4/19/2017 8:53:59 AM

X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

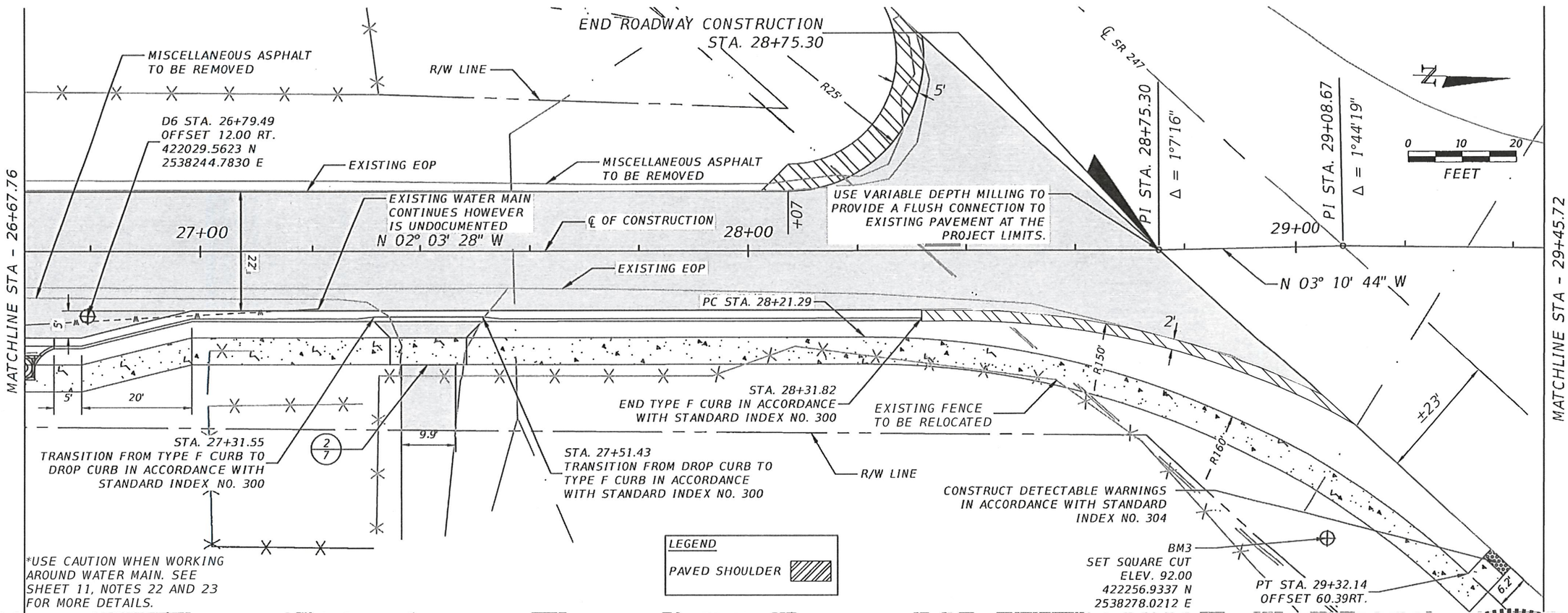
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 21

Anthony Fantauzzo 4/19/2017 8:54:00 AM

X:\2015\L150624CC8\H. CADD\roadway\PLANRD01.dwg



PAVED SHOULDER SHALL BE CONSTRUCTED USING OBG01 AND TYPE SP 12.5 STRUCTURAL COURSE (TL-B) (1.7").

SEE SHEET S-4 AND SIGNALIZATION PLANS FOR WORK PROPOSED ON SR 247.

JAMES H. PITMAN, JR. LICENSED PROFESSIONAL ENGINEER FLORIDA No. 42035 STATE OF

James Pitman

9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

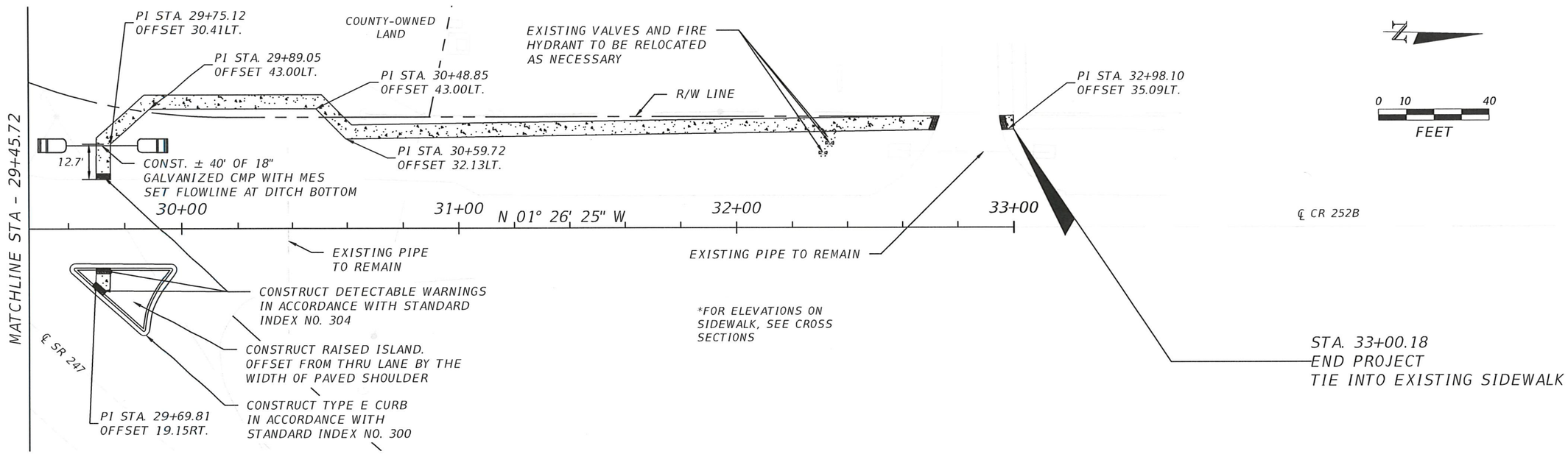
COLUMBIA COUNTY BOCC

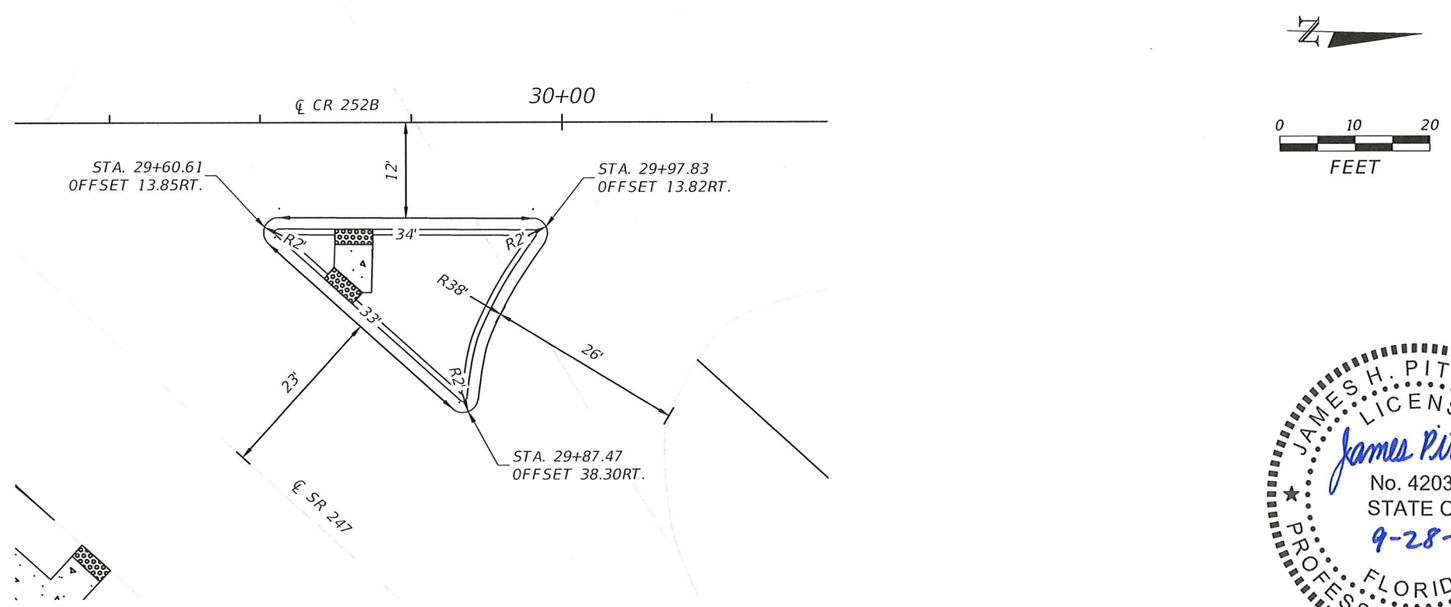
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 22

Anthony Fantauzzo 4/19/2017 8:54:01 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD01.dwg





JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

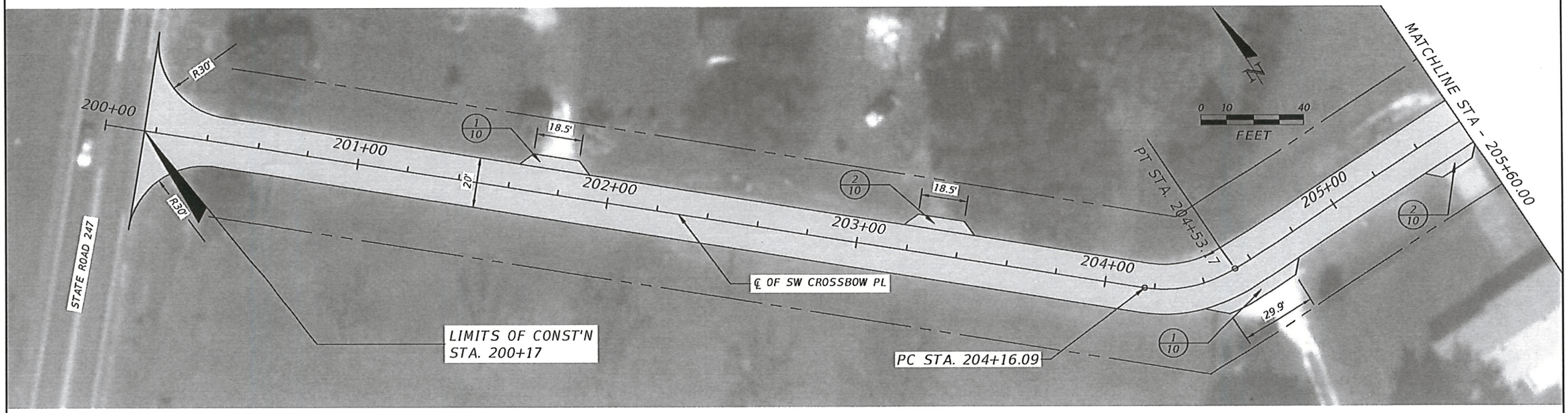
COLUMBIA COUNTY BOCC

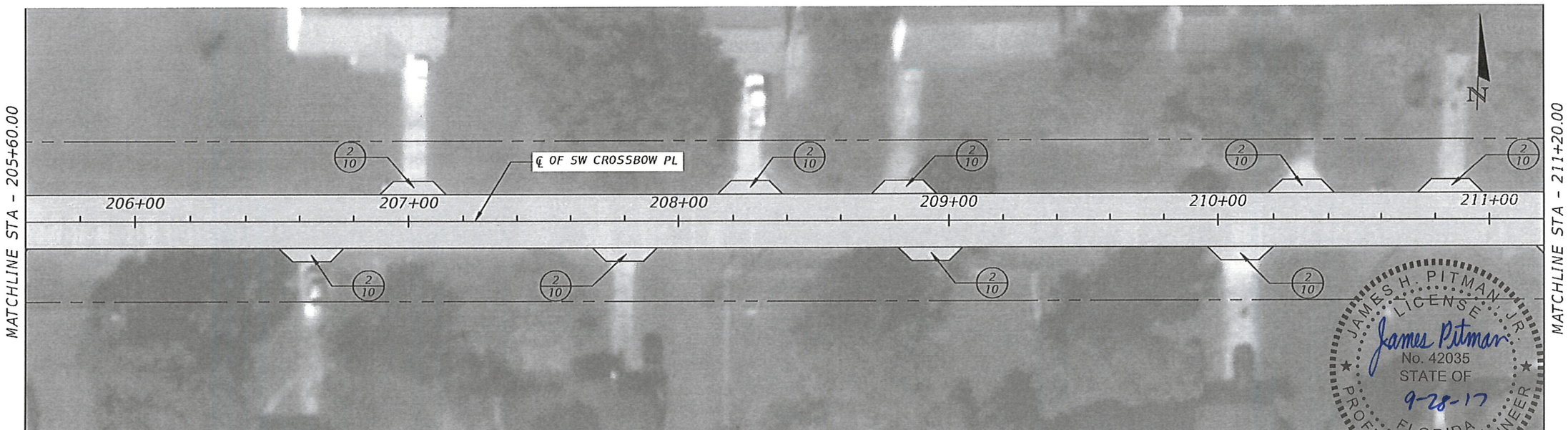
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET

SHEET NO. 23

Anthony Fantauzzo 6/12/2017 10:23:06 AM X:\2015\L150624CCB\CADD\PLANRD01.dwg





JAMES H. PITMAN
LICENSE
No. 42035
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
James Pitman
9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

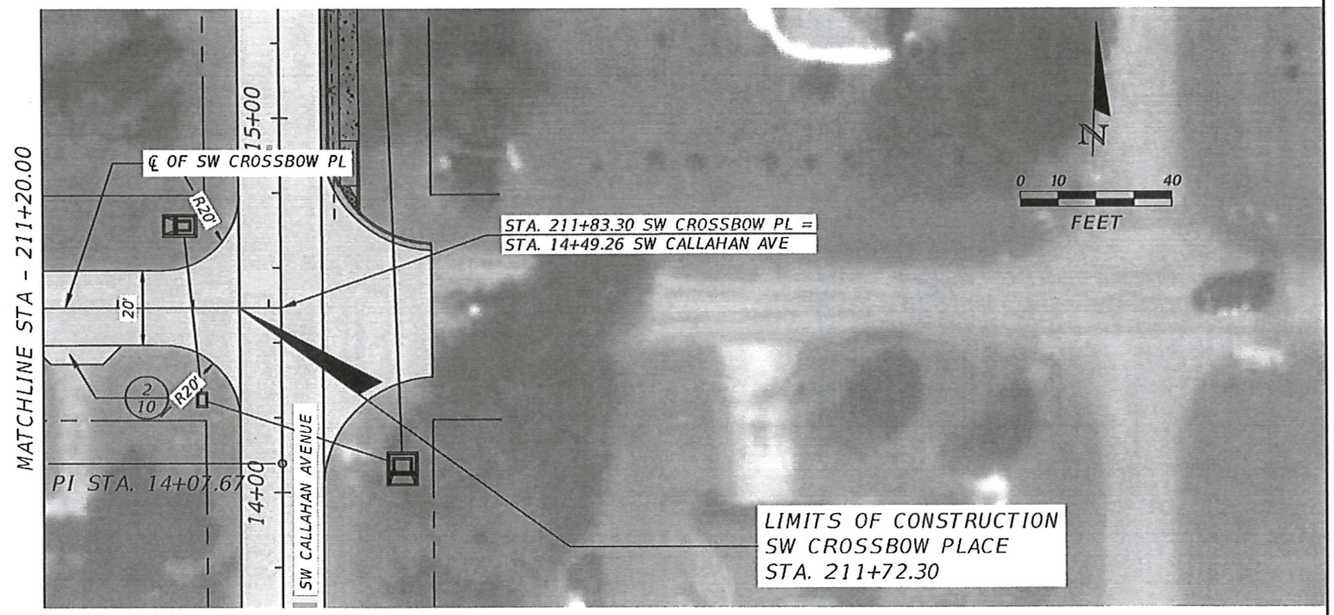
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET
SW CROSSBOW PLACE

SHEET NO. 24

Anthony Fantauzzo 4/19/2017 8:54:06 AM

X:\2015\L150624CCB\H. CADD\roadway\PLANRD02.dwg



JAMES H. PITMAN, JR.
LICENSE
No. 42035
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
James Pittman
9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

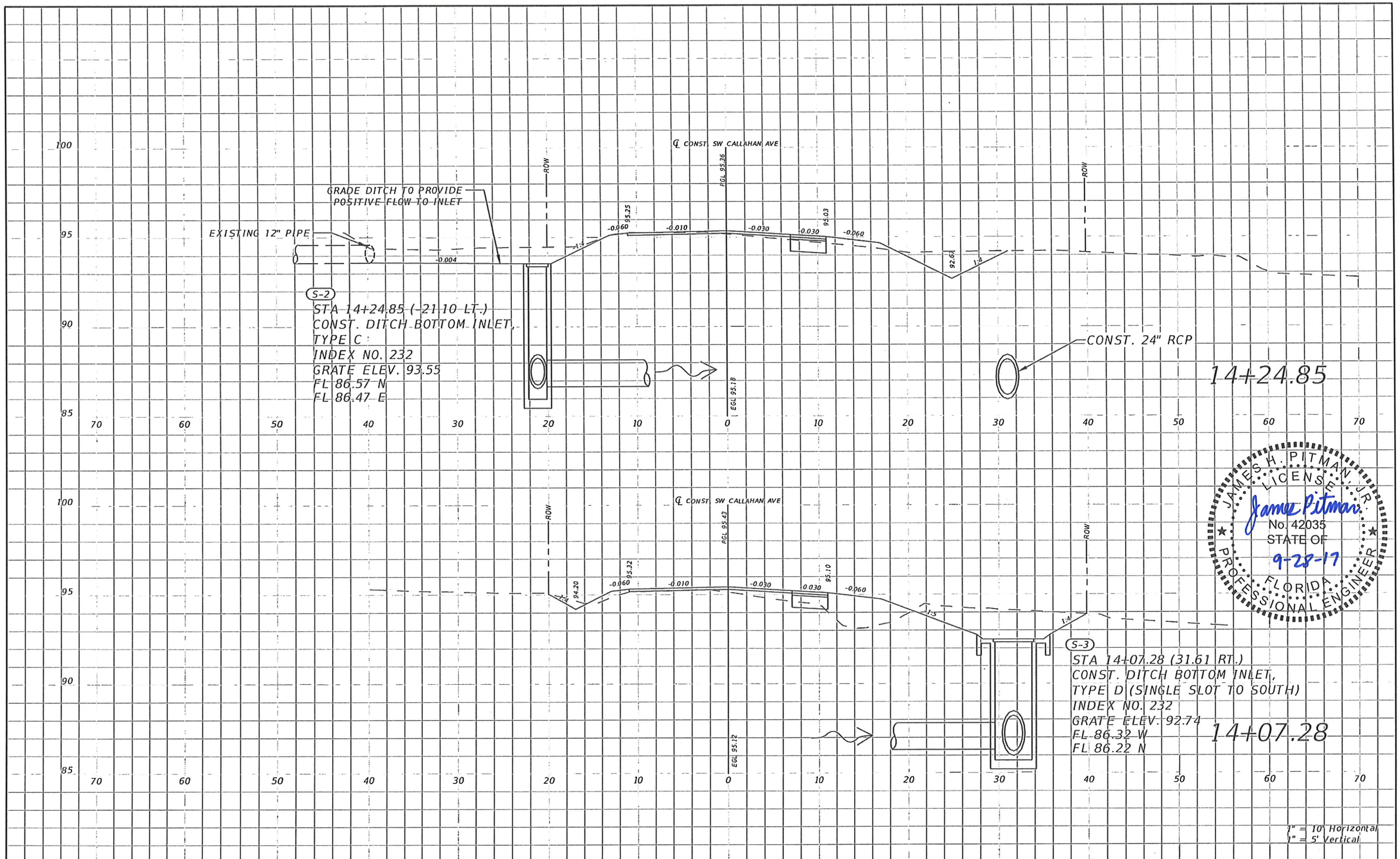
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY PLAN SHEET
SW CROSSBOW PLACE

SHEET NO.
25

Anthony Fantauzzo 4/19/2017 8:54:07 AM X:\2015\L150624CCB\H. CADD\roadway\PLANRD02.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

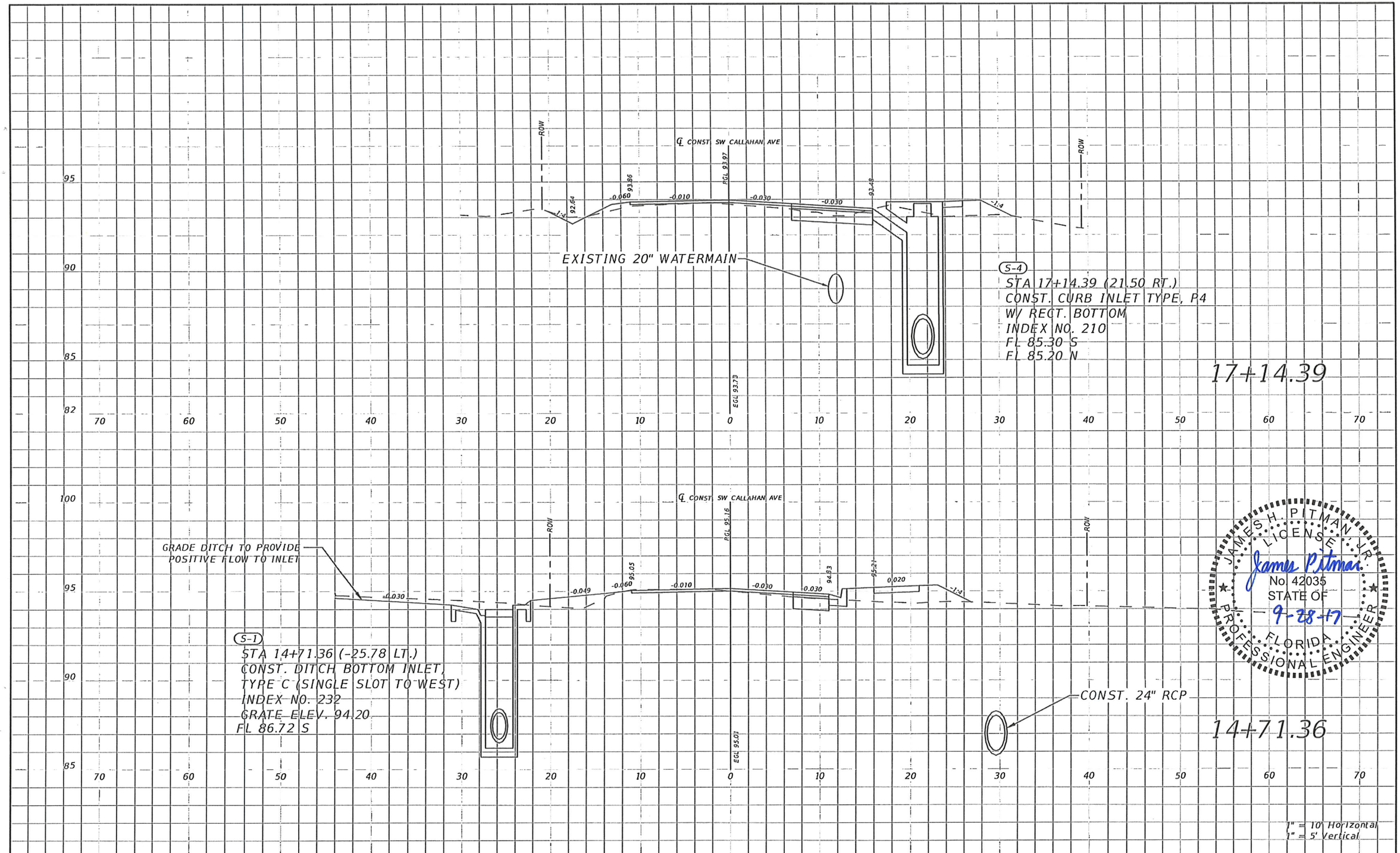
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

DRAINAGE STRUCTURES

SHEET NO. 26

Anthony Fantauzzo 4/19/2017 8:54:09 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

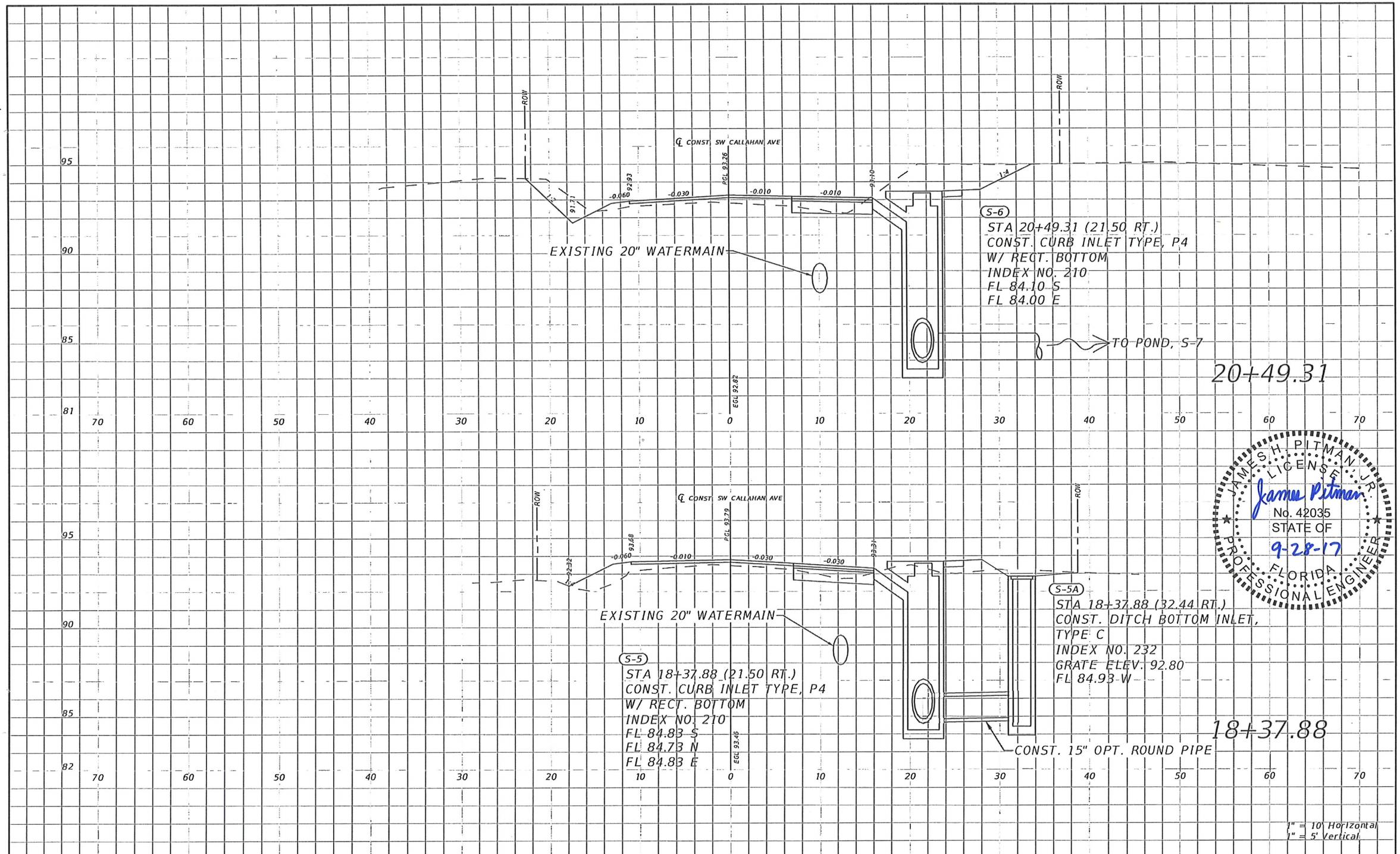
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

DRAINAGE STRUCTURES

SHEET NO. 27

Anthony Fantauzzo 4/19/2017 8:54:11 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

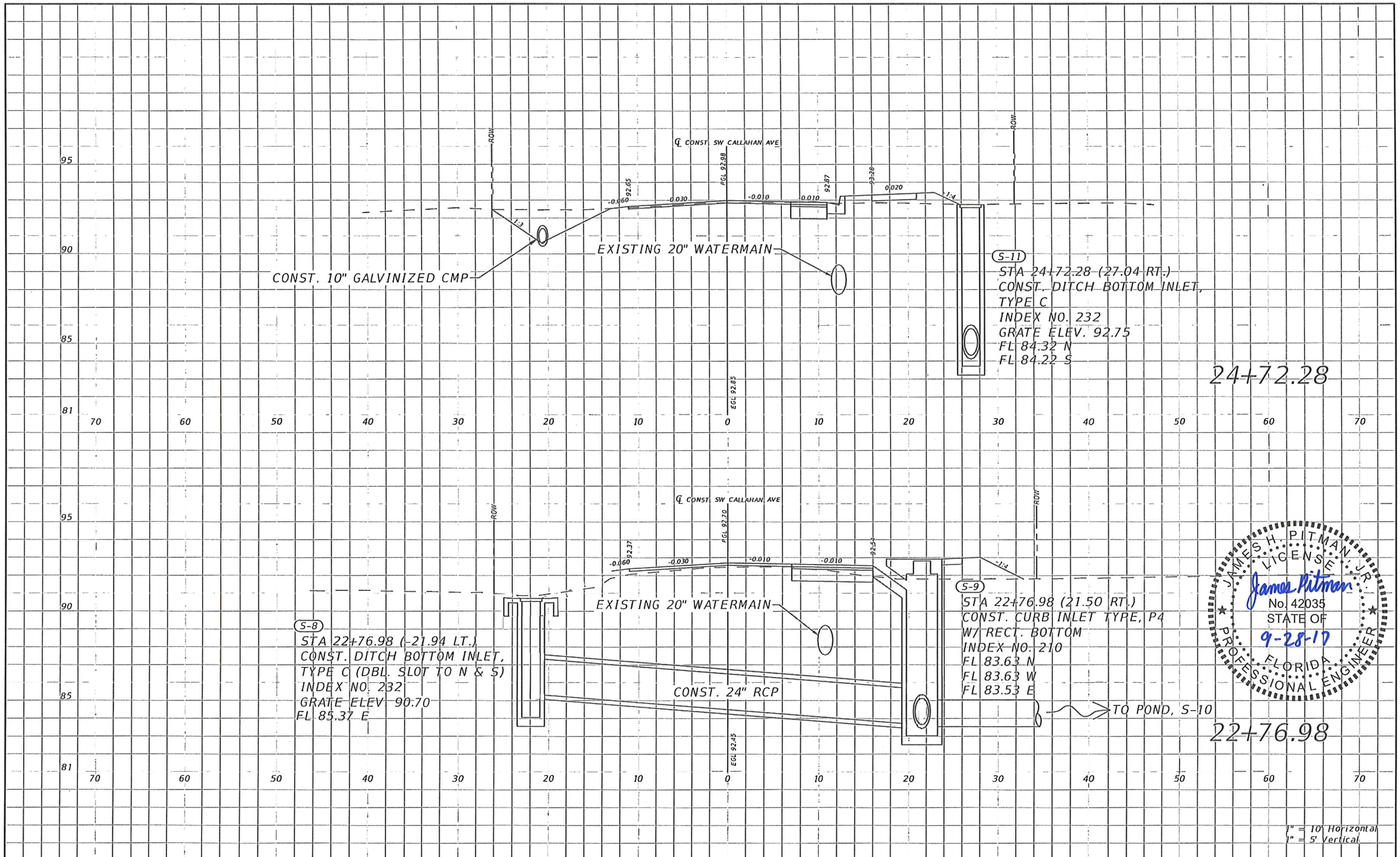
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

DRAINAGE STRUCTURES

SHEET NO. 28

Anthony Fantauzzo 4/19/2017 8:54:13 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

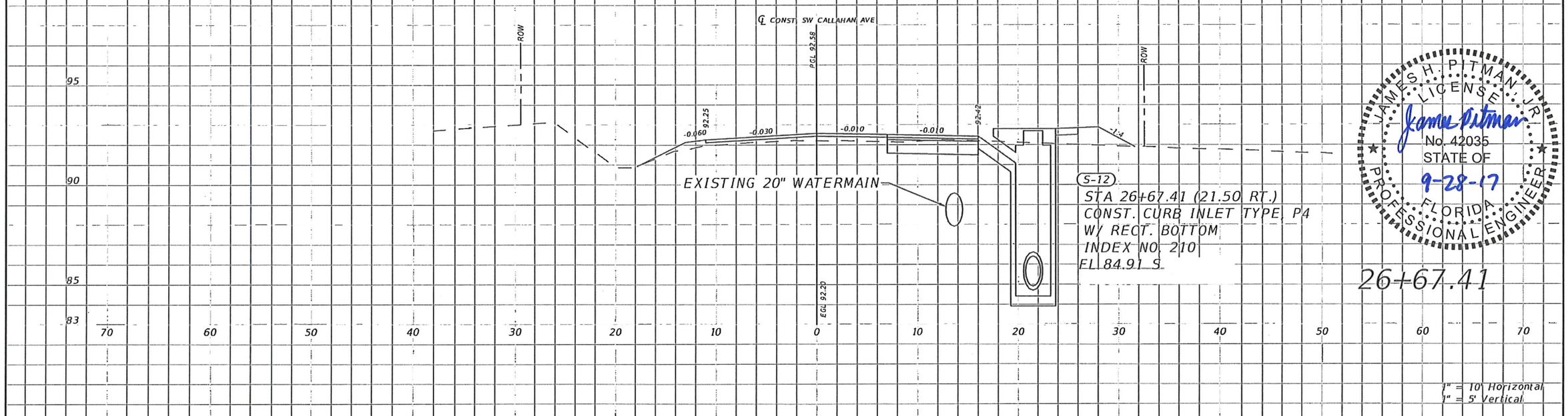
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

DRAINAGE STRUCTURES

SHEET NO. 29

Anthony Fantauzzo 4/19/2017 8:54:15 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
No. 42035
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

James Pitman
9-28-17

26+67.41

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

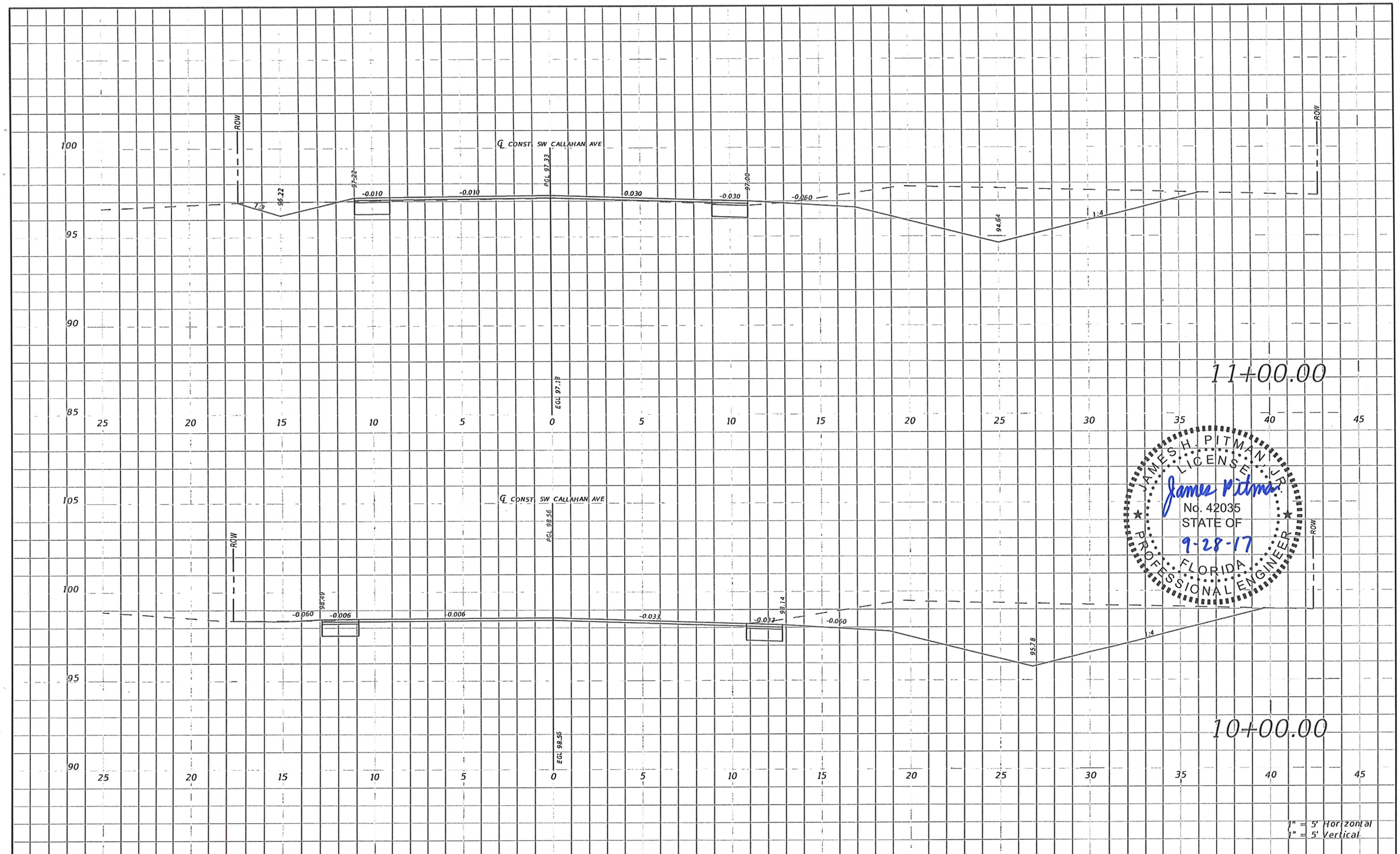
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

DRAINAGE STRUCTURES

SHEET NO.
30

Anthony Fantauzzo 4/19/2017 8:54:17 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



1" = 5' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

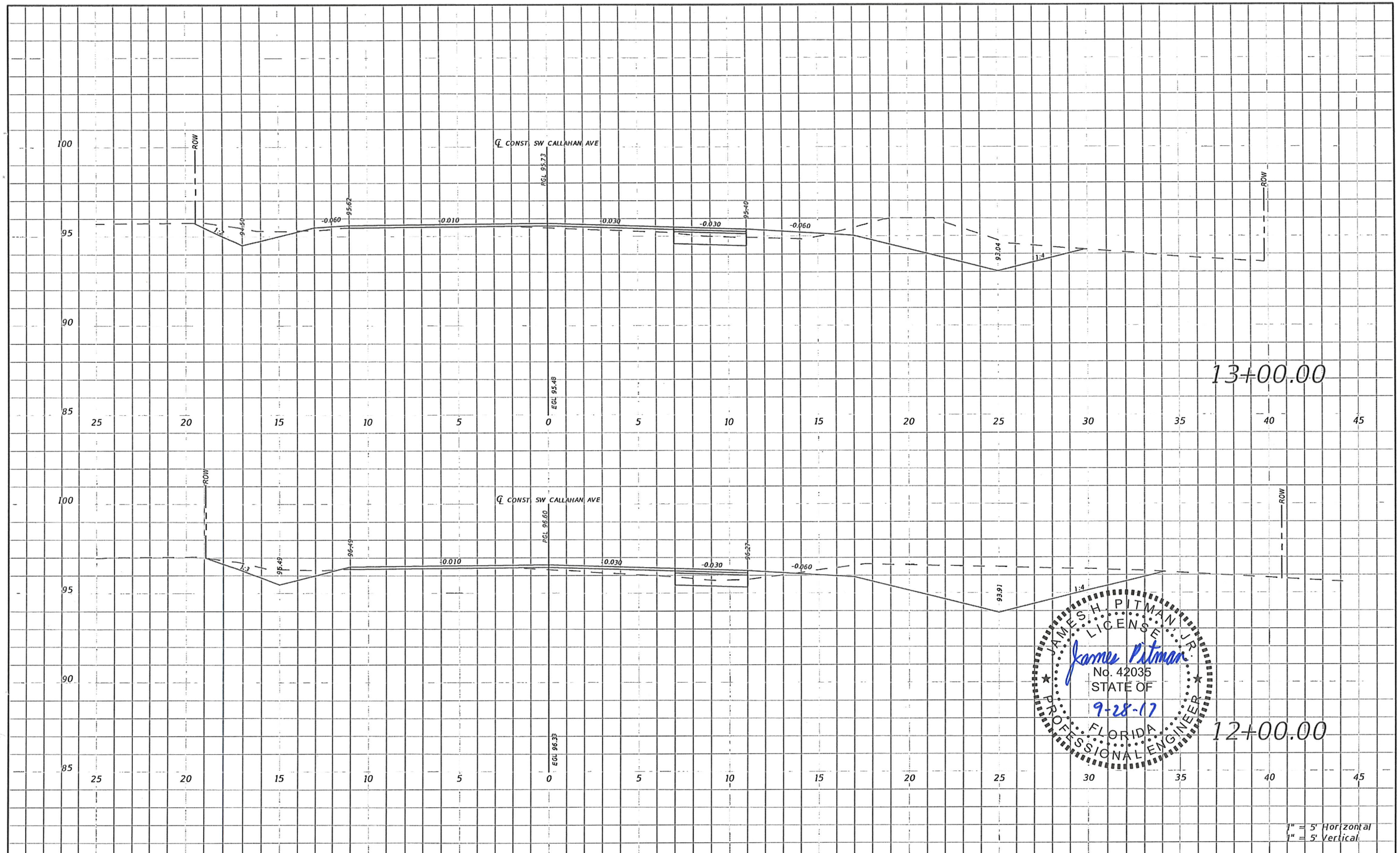
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 31

Anthony Fantauzzo 4/19/2017 8:54:18 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

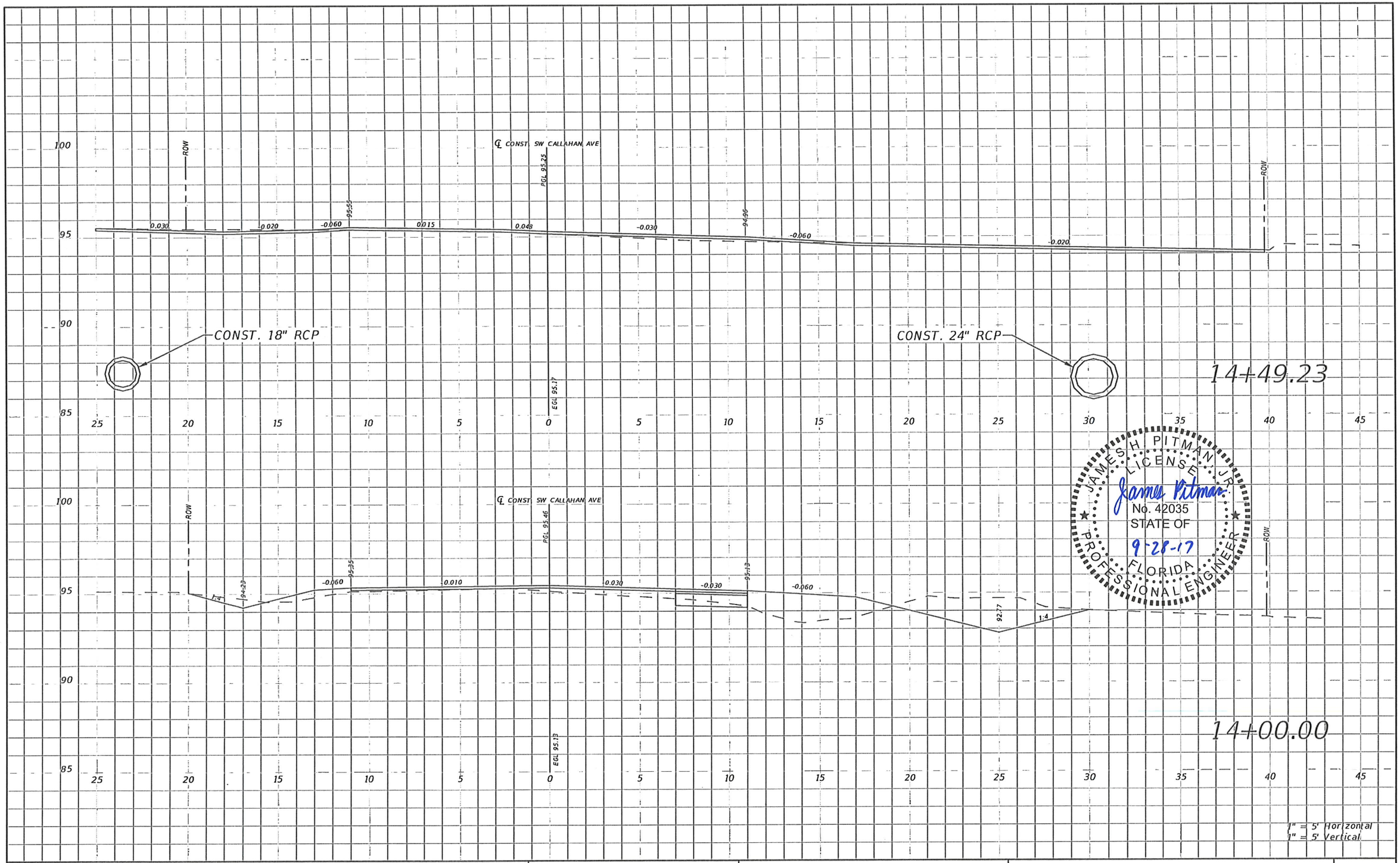
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 32

Anthony Fantauzzo 4/19/2017 8:54:20 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

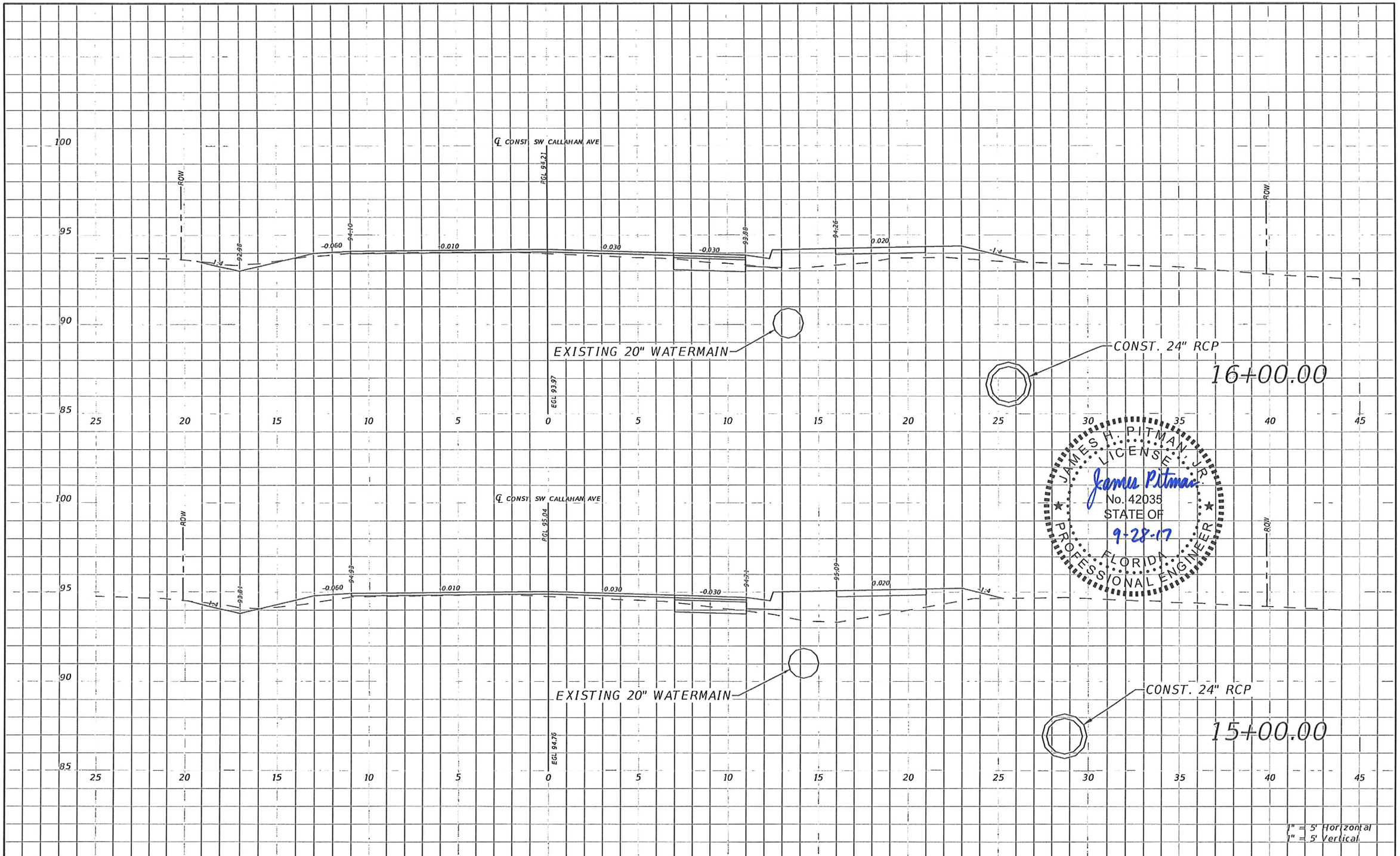
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 33

Anthony Fantauzzo 4/19/2017 8:54:22 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

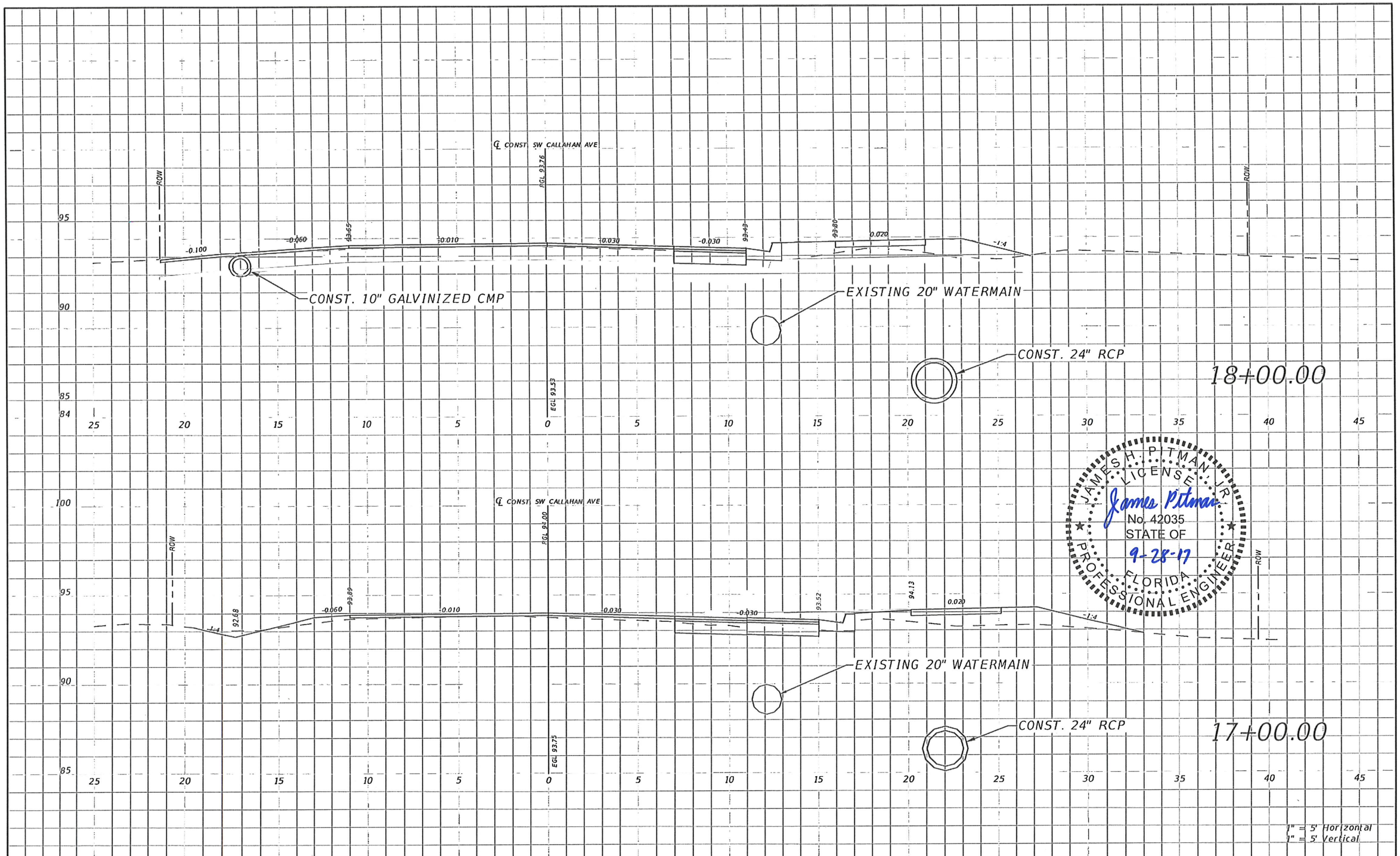
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 34

Anthony Fantauzzo 4/19/2017 8:54:24 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

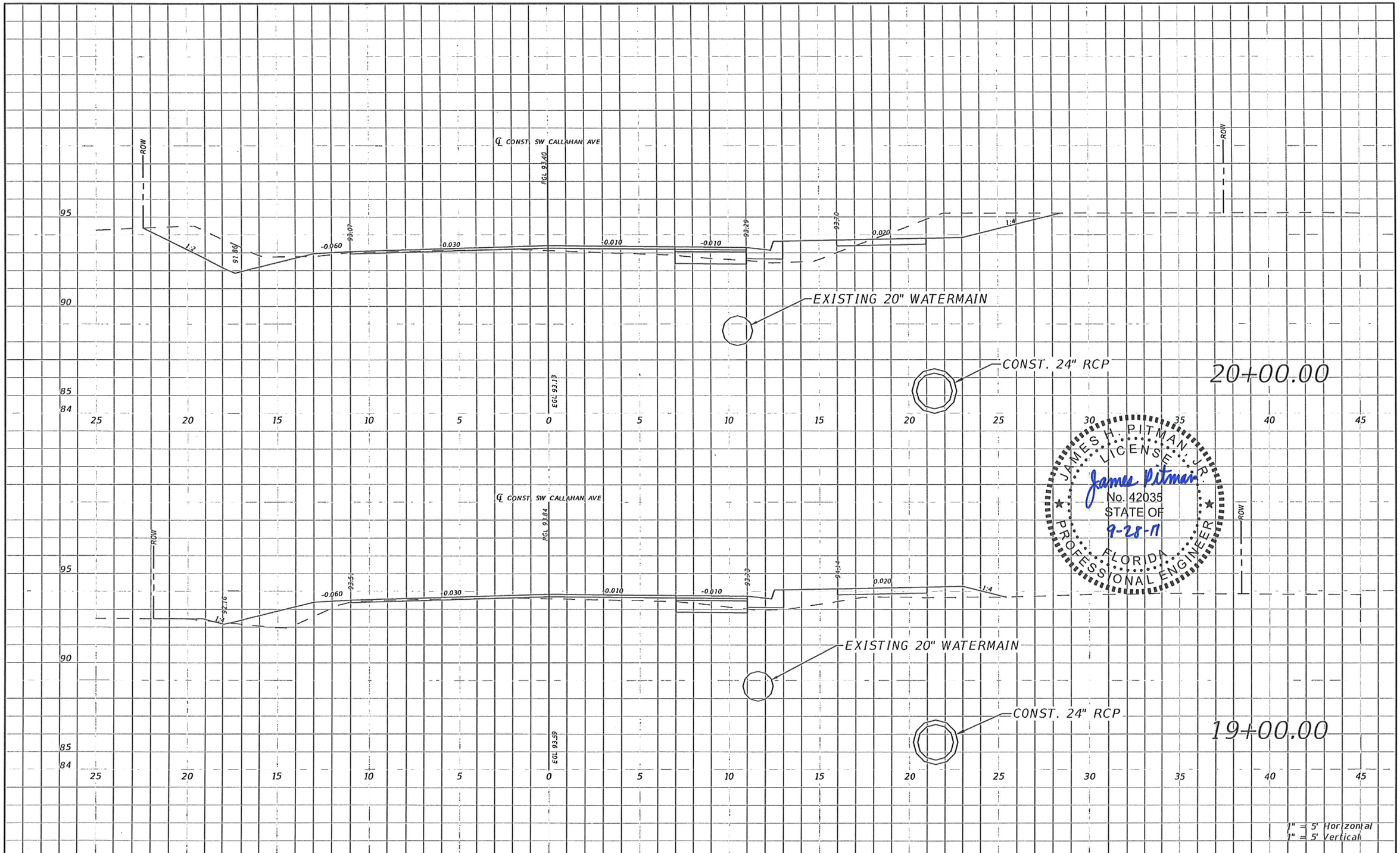
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 35

Anthony Fantauzzo 4/19/2017 8:54:26 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

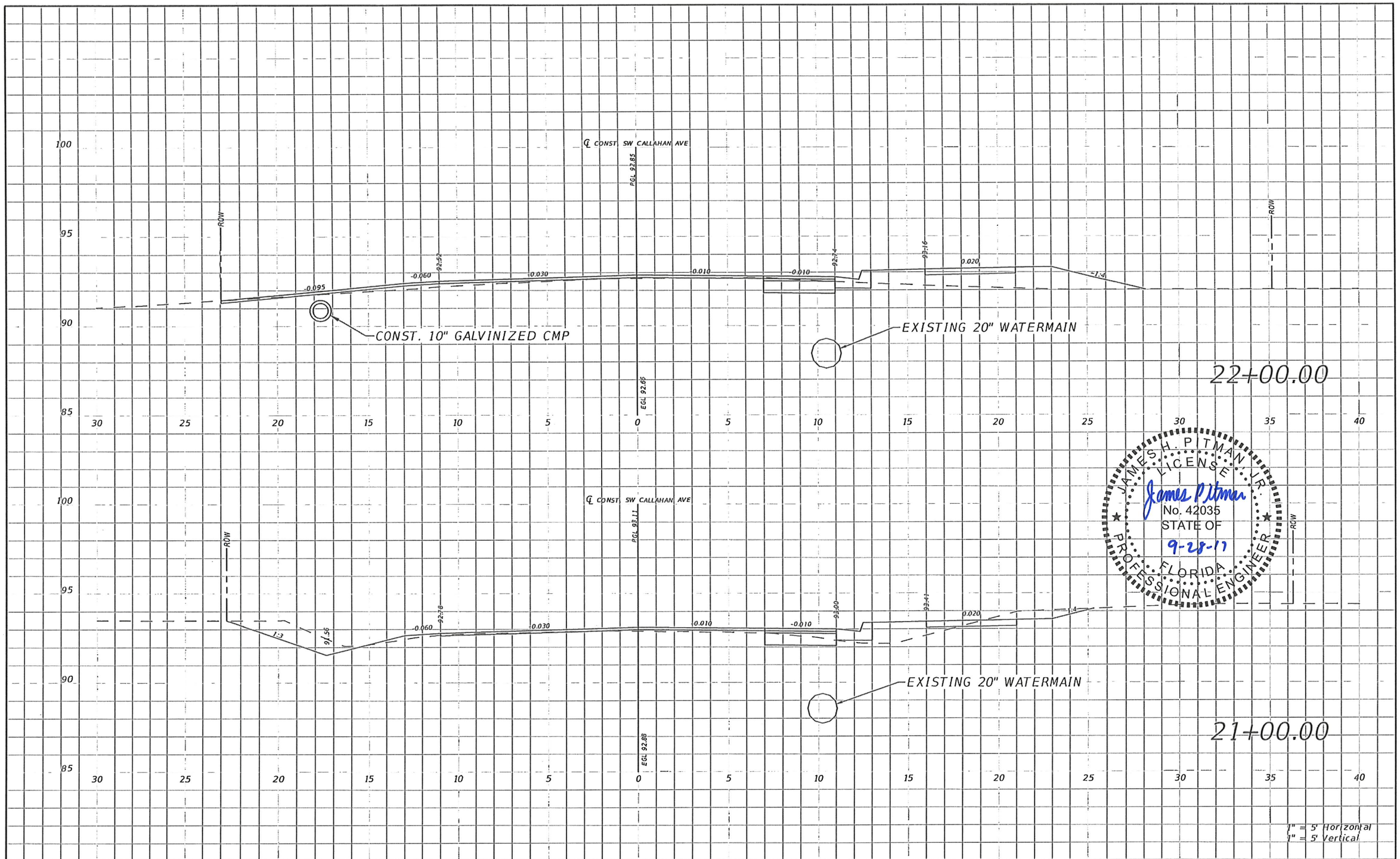
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO.
36

Anthony Fantauzzo 4/19/2017 8:54:28 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

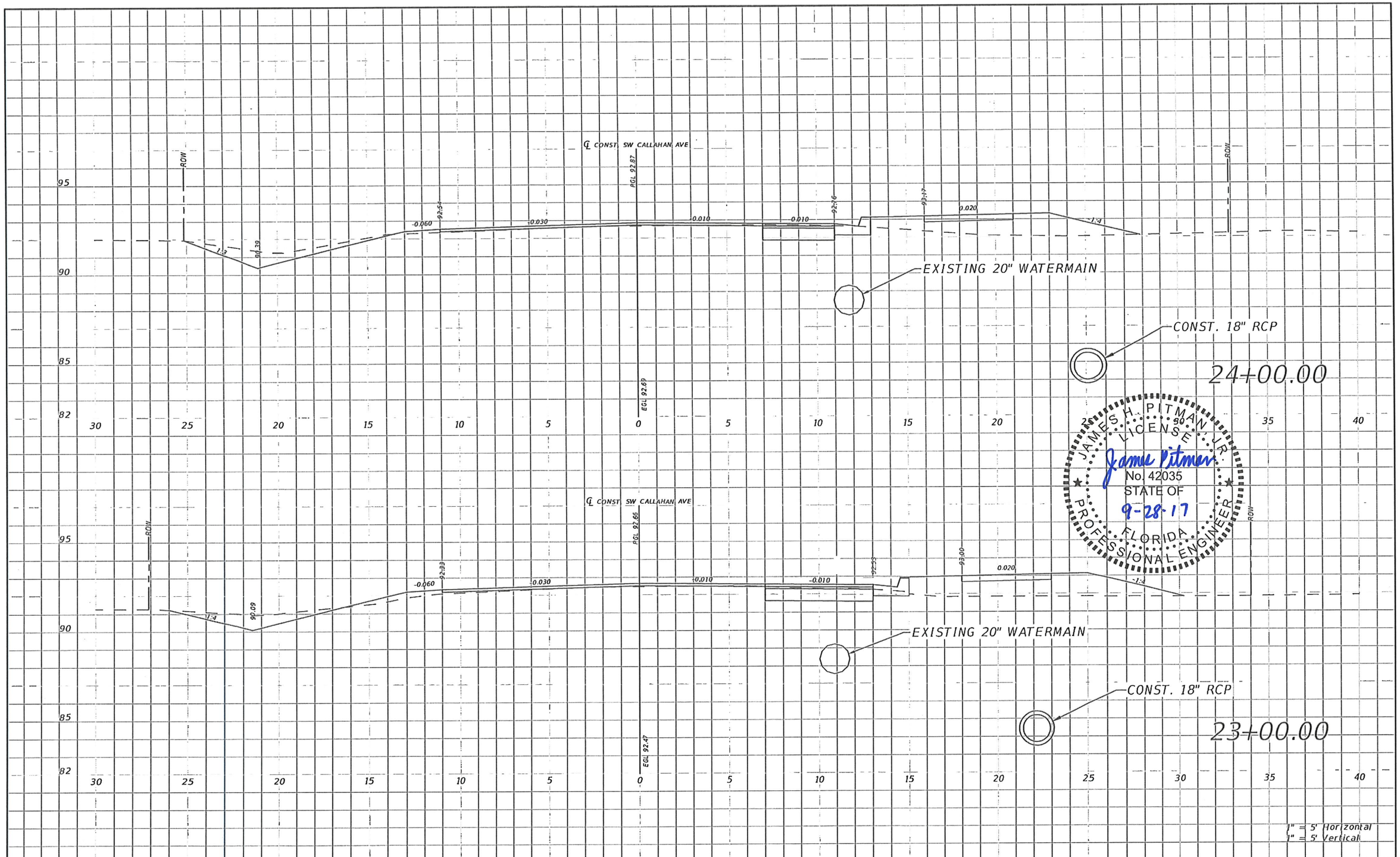
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 37

Anthony Fantauzzo 4/19/2017 8:54:30 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



JAMES H. PITMAN JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

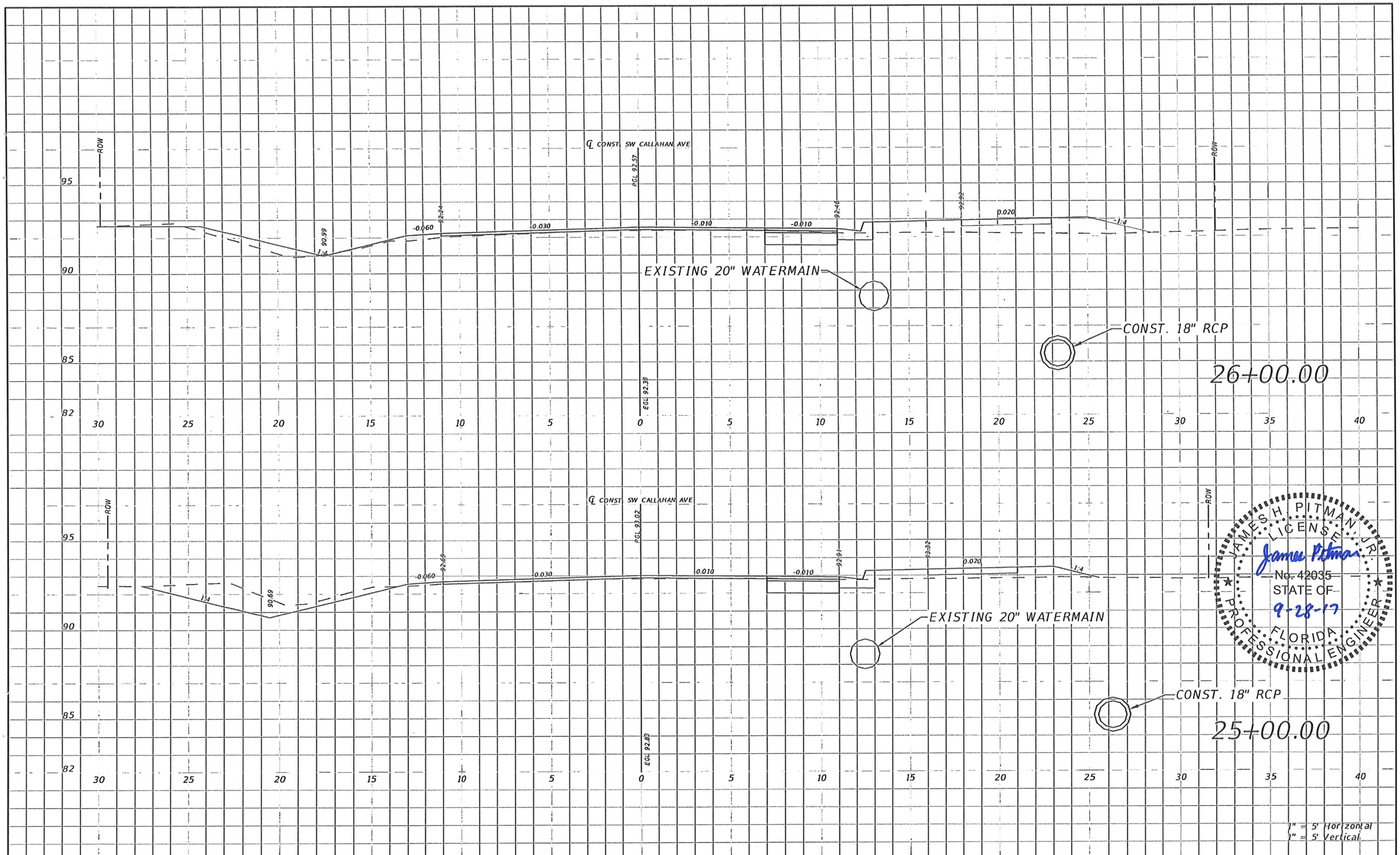
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 38

Anthony Fantauzzo 4/19/2017 8:54:31 AM

X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

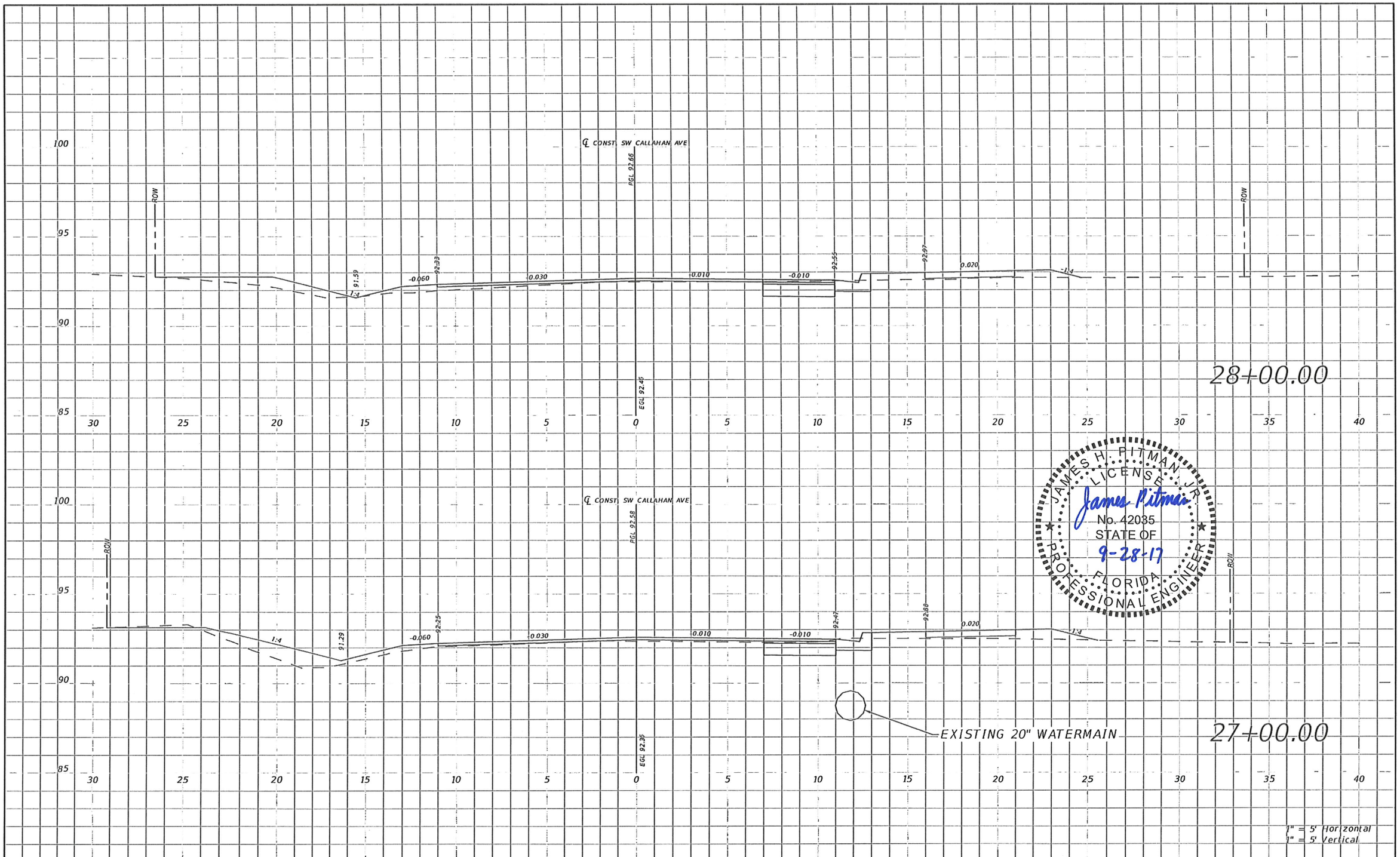
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 39

Anthony Fantauzzo 4/19/2017 8:54:33 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

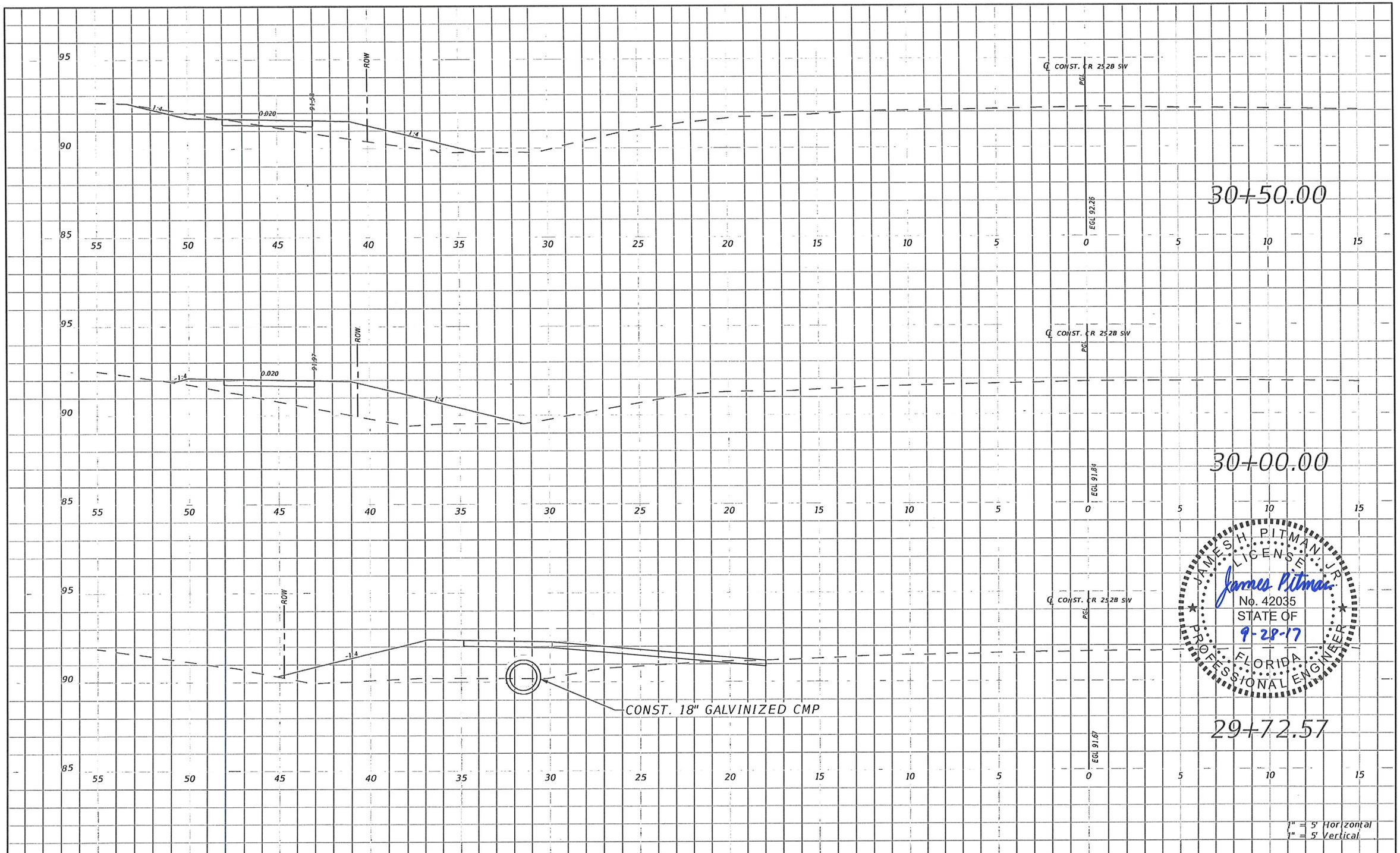
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 40

Anthony Fantauzzo 4/19/2017 8:54:35 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

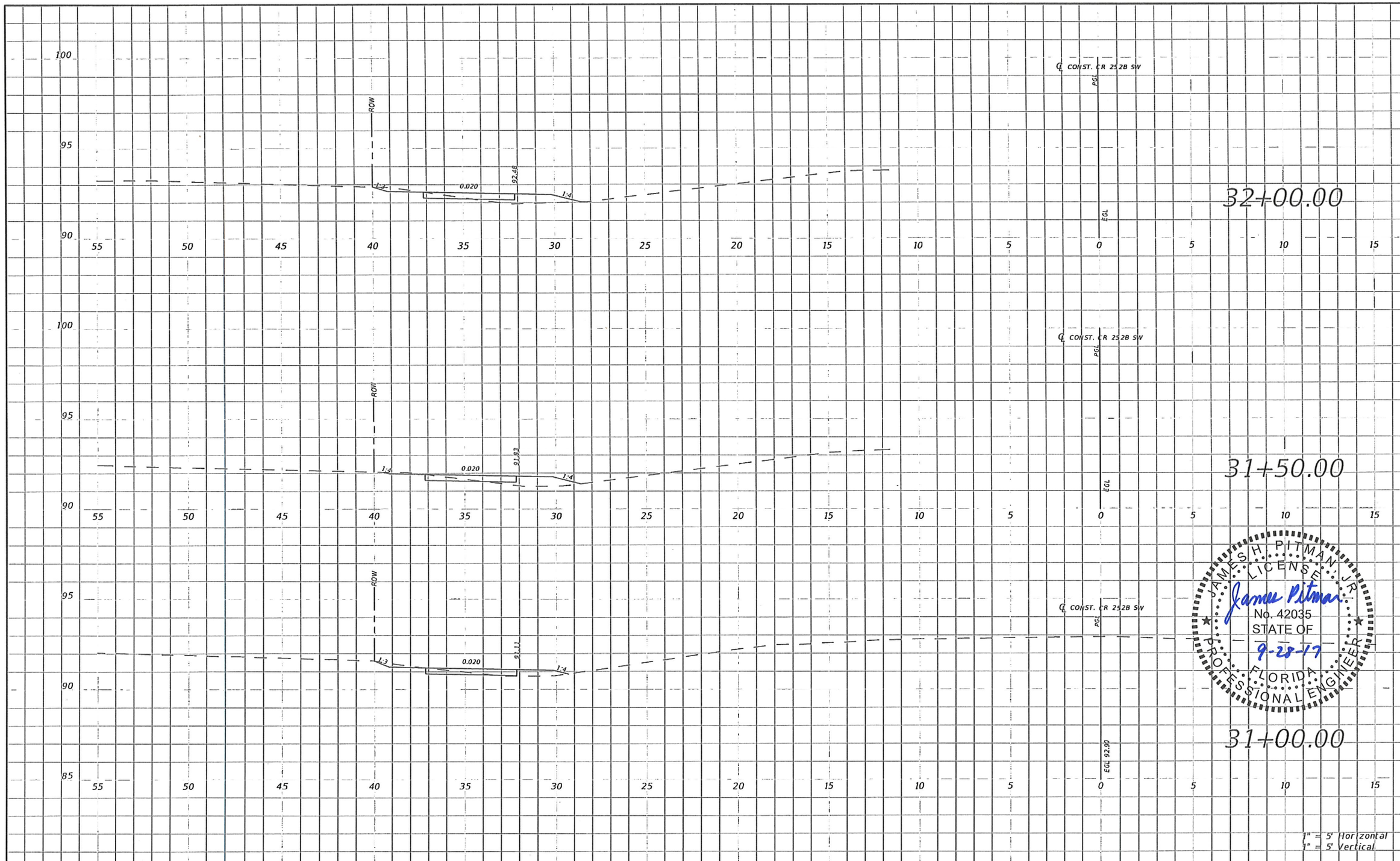
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 41

Anthony Fantauzzo 4/19/2017 8:54:37 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

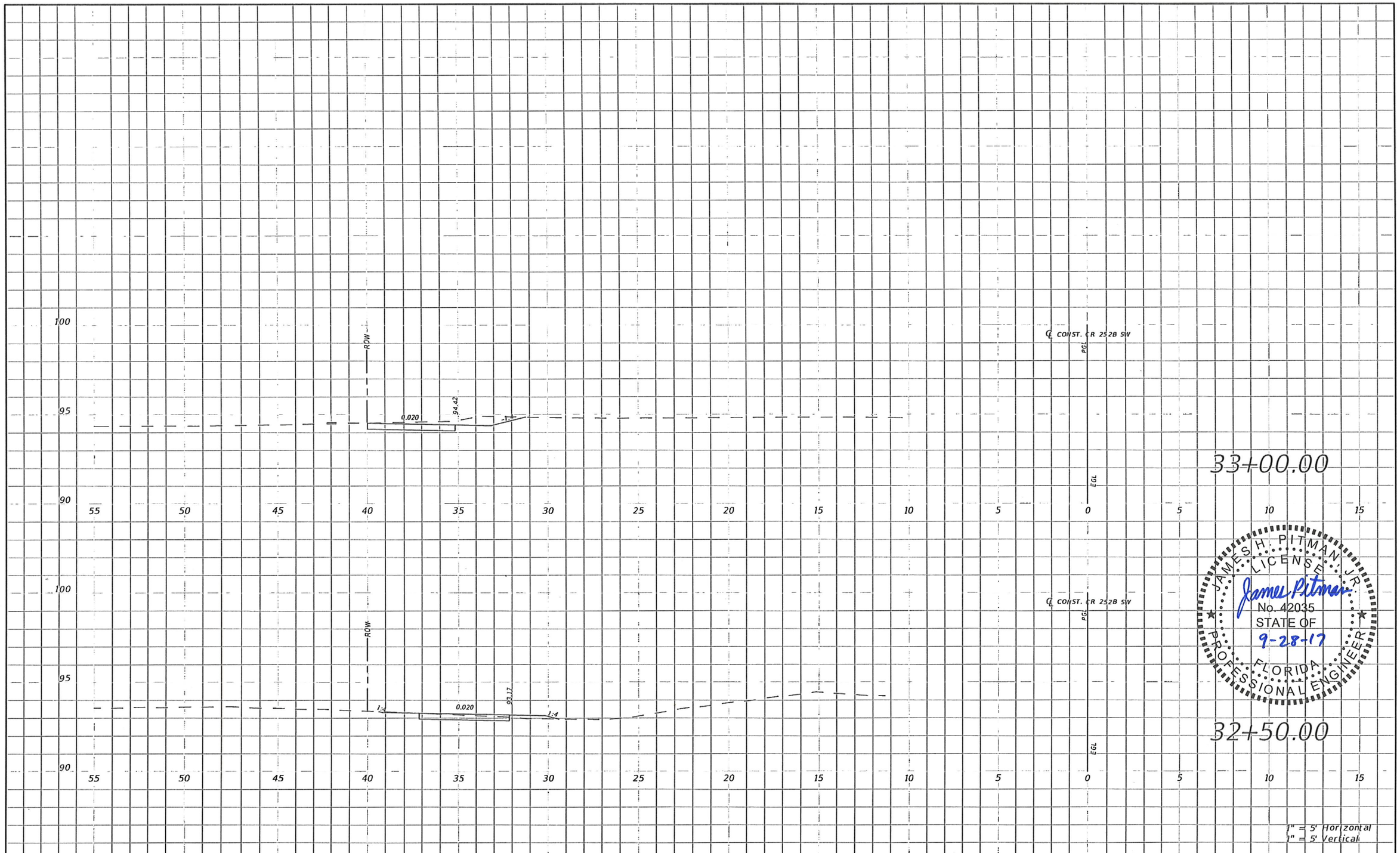
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO.
42

Anthony Fantauzzo 4/19/2017 8:54:39 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

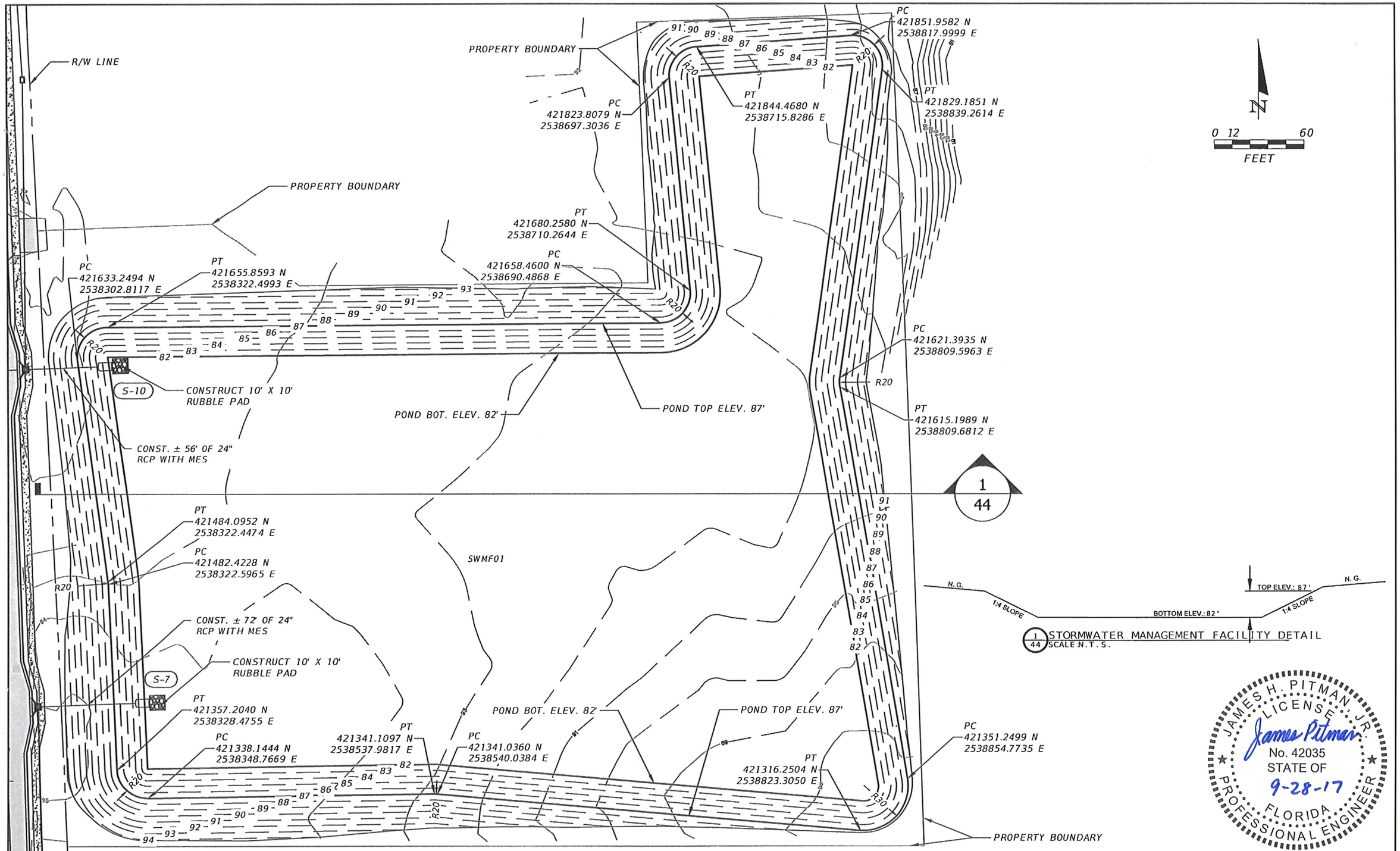
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

ROADWAY CROSS SECTIONS

SHEET NO. 43

Anthony Fantauzzo 4/19/2017 8:54:40 AM X:\2015\L150624CCB\H. CADD\roadway\CORRRD01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

STORMWATER POND DETAILS

SHEET NO. 44

Anthony Fantauzzo 4/19/2017 9:59:15 AM X:\2015\L150624CCB\H. CADD\drainage\PDPLRD01.dwg

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION. BEFORE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE SEDIMENT AND EROSION CONTROL PLAN TO THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT FOR APPROVAL.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE MAJOR ITEMS OF WORK INCLUDE BUT ARE NOT LIMITED TO WIDENING AND PAVING SW CALLAHAN AVENUE AND SW CROSSBOW PLACE, CONSTRUCTING DRIVEWAY TURNOUTS, SIDE-DRAINS WITH END TREATMENTS, A STORM SEWER SYSTEM, A POND, AND SIDEWALK CROSSING SR 247, GRASSING ALL DISTURBED AREAS, PAVEMENT MARKINGS, AND MINOR SIGN WORK.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.

2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.

3. STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.

4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 7.046 ACRES.
TOTAL AREA TO BE DISTURBED: 7.046 ACRES.

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:
BEFORE: 0.33
DURING: VARIES FROM 0.33 TO 0.84
AFTER: 0.84

SOILS DATA: THE RESULTS OF THE SOIL BORINGS CAN BE FOUND IN THE SOIL BORING SECTION OF THE ENGINEERING REPORT. THE MAJORITY INCLUDES BLANTON FINE SANDS.

OUTFALL INFORMATION:

THE STORMWATER POND IS TOTAL RETENTION WITH NO OUTFALL REQUIRED.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES ARE SHOWN ON THE DRAINAGE BASIN MAP LOCATED IN THE ENGINEERING REPORT. FLOW DIRECTION CAN ALSO BE DETERMINED FROM THE PROFILE SHEETS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE POND CROSS SECTIONS LOCATED WITH THE POND DETAIL SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

* AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS EXCEPT FOR THE CONTROLS ASSOCIATED WITH THE BOX CULVERT REPLACEMENT WHICH ARE SHOWN ON THE BOX CULVERT CONSTRUCTION DETAIL SHEET. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

* AREAS TO BE STABILIZED: PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

1.F. RECEIVING WATERS:

THE STORMWATER POND IS TOTAL RETENTION WITH NO OUTFALL REQUIRED.

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 45

Anthony Fantauzzo 4/19/2017 8:54:42 AM X:\2015\L150624CCB\H. CADD\roadway\SWPPRD01.dwg

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL(TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

PHASE I OF TEMPORARY TRAFFIC CONTROL PLANS.

ROADWAY, STATION 10+00.00 TO 33+17.05:

IMMEDIATELY AFTER CONSTRUCTING THE TEMPORARY PAVEMENT, STABILIZE THE ENTIRE AREA BETWEEN THE TEMPORARY PAVEMENT AND THE RIGHT OF WAY LINE USING TEMPORARY SOD.

POND CONSTRUCTION:

CLEAR AND GRUB THE POND SITE. INITIALLY EXCAVATE THE POND ONLY ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE TTC PLAN. THEN EXCAVATE THE POND TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS OF THE POND SITE ABOVE ELEVATION 82.0. FINAL GRADING WILL BE DONE AT THE END OF PHASE TWO OF THE TTC PLAN.

INFLOW OF POND:

CONSTRUCT THE STORM DRAIN FROM THE POND TO THE ROADWAY AND THEN IN THE UPSTREAM DIRECTION. DURING THE CONSTRUCTION OF THE ROADWAY AND STORM DRAIN USE S-12 AND S-17 AS THE PRIMARY INLET FOR CONVEYANCE TO THE POND. STAGE CONSTRUCT THE INLET AS DETAILED IN THE TTC PLAN. S-12 AND S-17 SHOULD BE CONSTRUCTED BEFORE DISTURBING SOIL UPSTREAM.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* ASPHALT OR CONCRETE SURFACE.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

* SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.

* SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

* STORMWATER PONDS.

* SOD.

2.B STORMWATER MANAGEMENT:

THE STORM DRAIN SYSTEM WILL BE CONSTRUCTED TO CONVEY RUNOFF TO THE STORMWATER RETENTION POND.

JAMES H. PITMAN, JR. LICENSED PROFESSIONAL ENGINEER FLORIDA
James Pitman
No. 42035
STATE OF
9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 46

Anthony Fantauzzo 4/19/2017 8:54:43 AM X:\2015\L150624CCB\H. CADD\roadway\SWPPRD01.dwg

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

* REMOVING EXCESS DIRT FROM ROADS DAILY.

* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.

* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

* SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

* SEDIMENT BARRIERS : REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

* THE POND IS A TEMPORARY SEDIMENT BASIN UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE POND WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

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

* STRUCTURAL CONTROLS.

* STORMWATER MANAGEMENT SYSTEMS.

* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT DAVE LETTERMAN, DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (305) 63B-R549.

JAMES H. PITMAN, JR. LICENSED PROFESSIONAL ENGINEER FLORIDA
James Pitman
No. 42035
STATE OF
9-28-17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

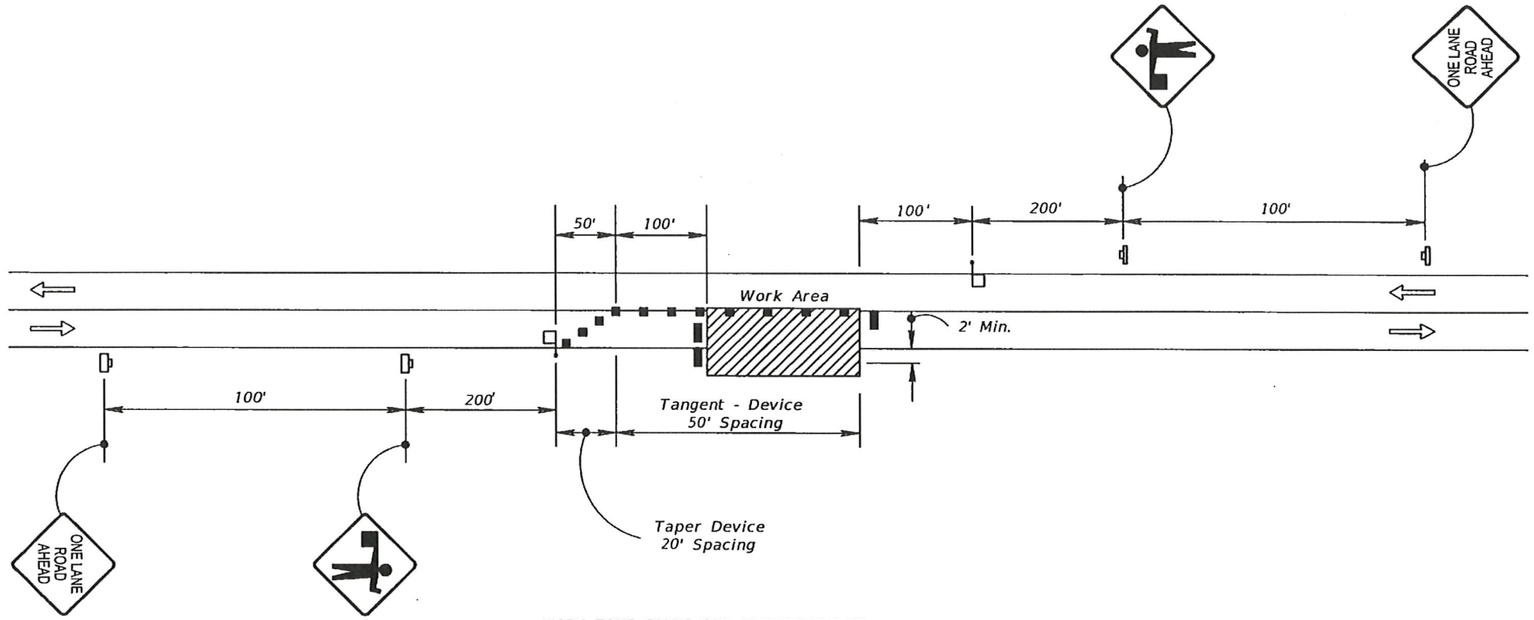
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

STORMWATER POLLUTION PREVENTION PLAN

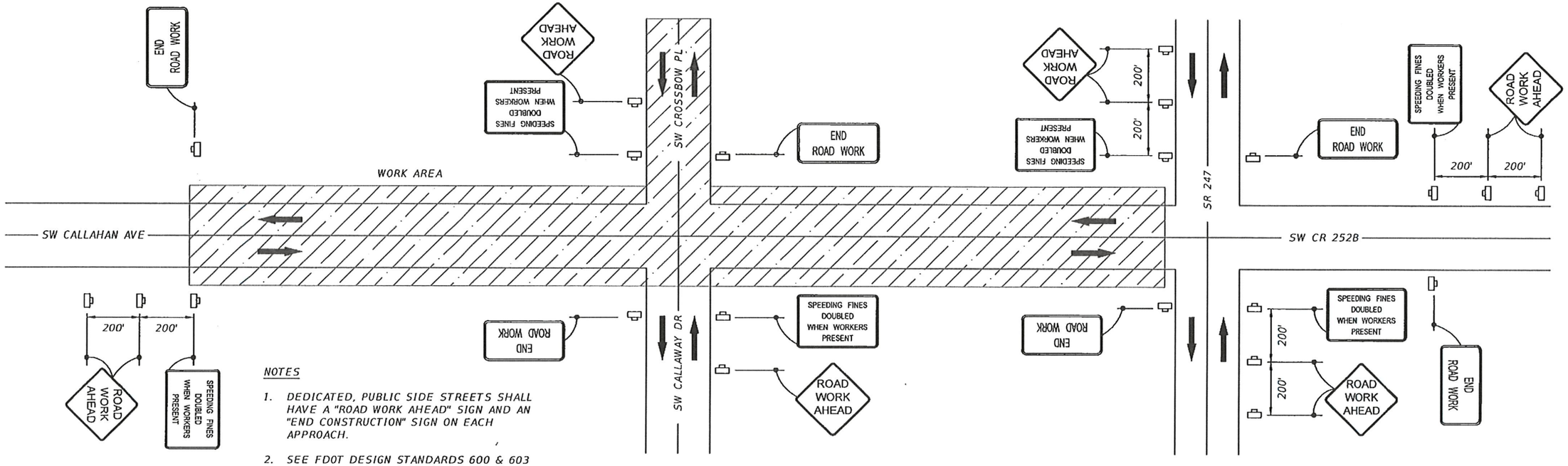
SHEET NO. 47

Anthony Fantauzzo 4/19/2017 8:54:43 AM X:\2015\L150624CCB\H. CADD\roadway\SWPPRD01.dwg



WORK ZONE SIGNS FOR OPERATIONS ON THE TRAVEL LANE OR ON THE SHOULDER

JAMES H. PITMAN, JR.
LICENSE
No. 42035
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
James Pitman
9-28-17



NOTES

1. DEDICATED, PUBLIC SIDE STREETS SHALL HAVE A "ROAD WORK AHEAD" SIGN AND AN "END CONSTRUCTION" SIGN ON EACH APPROACH.
2. SEE FDOT DESIGN STANDARDS 600 & 603

ADVANCE WARNING SIGNS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TEMPORARY TRAFFIC CONTROL PLANS

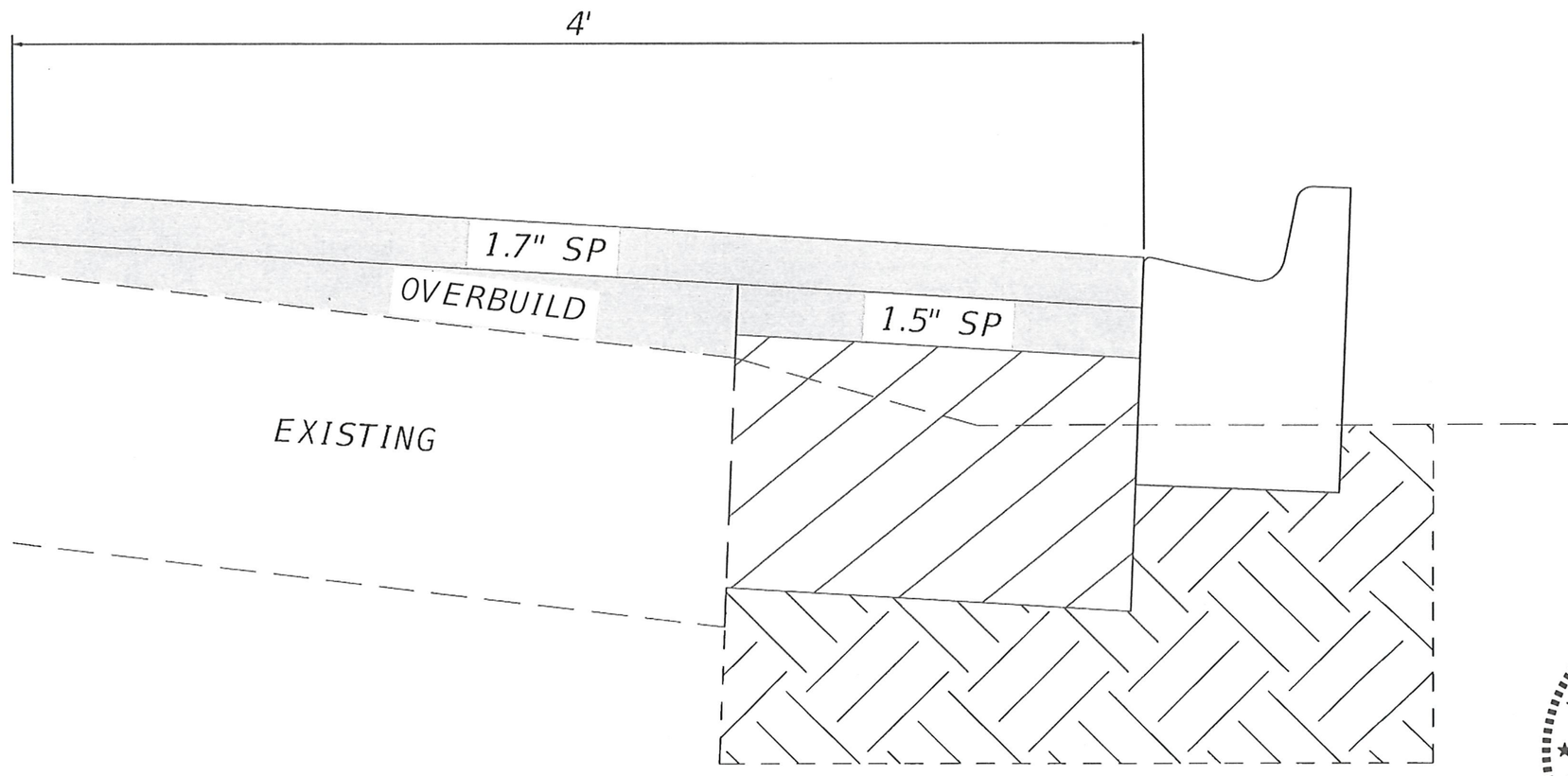
SHEET NO. 48

Anthony Fantauzzo 4/19/2017 8:54:43 AM X:\2015\L150624CCB\H. CADD\roadway\TCPLRD01.dwg

PROPOSED SEQUENCE OF OPERATIONS

SHEET 49	ONE-LANE, TWO-WAY WITH FLAGGERS	
SHEETS 50 & 51	TWO-LANE, TWO-WAY WITH BARRIER	
SHEET 49	ONE-LANE, TWO-WAY WITH FLAGGERS	

1. PLACE VARIABLE THICKNESS OVERBUILD
2. STABILIZE WIDENING AREA
3. PLACE OPTIONAL BASE GROUP 06
4. CONSTRUCT STORM SEWER PIPE AND INLETS
5. CONSTRUCT CURB
6. PLACE 1.5" SP ON WIDENING STRIP
7. PLACE 1.7" SP ON LT LANE
8. PLACE 1.7" SP ON RT LANE



JAMES H. PITMAN, JR.
LICENSED
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

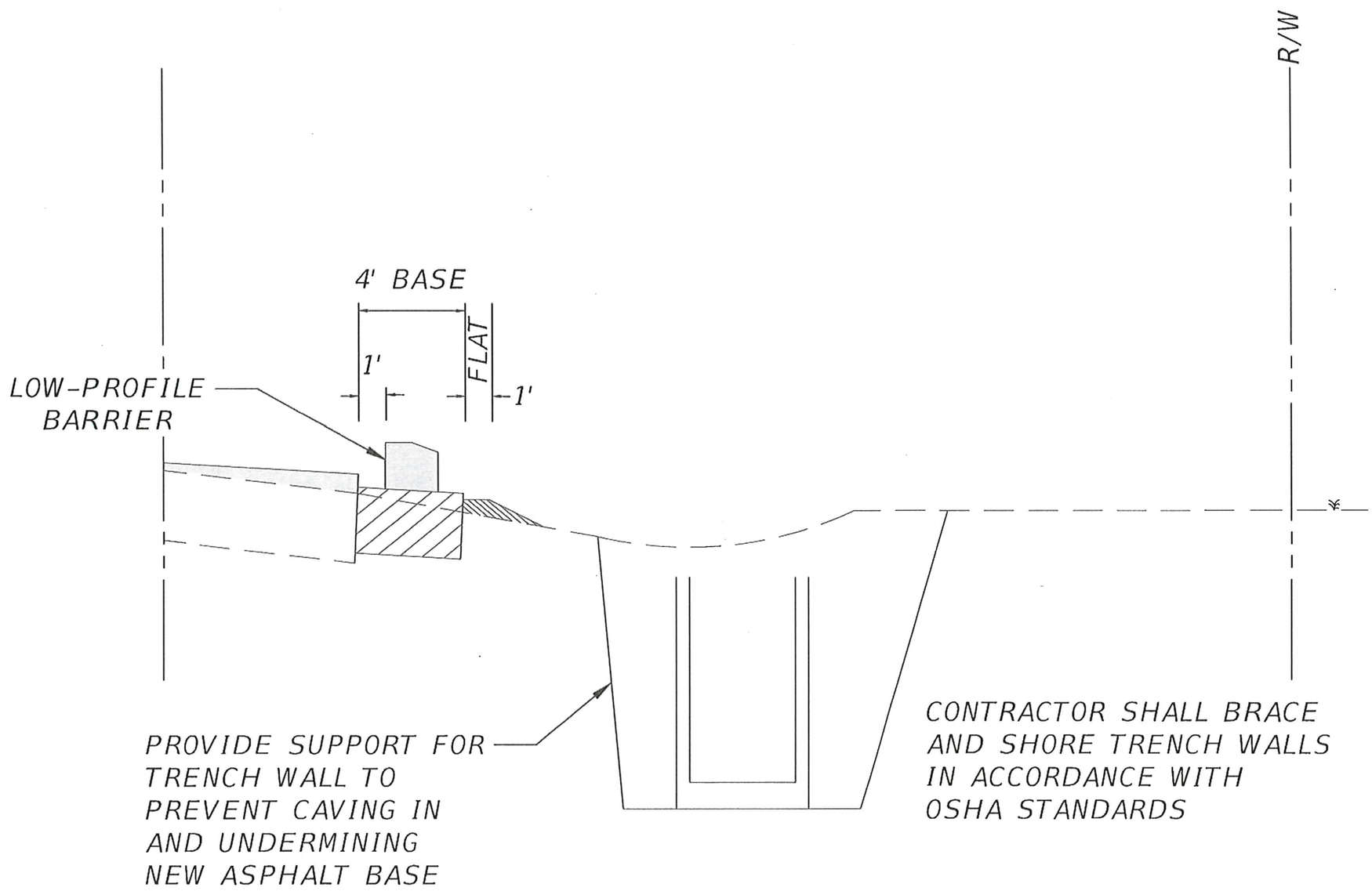
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 49

PLACING CURB INLETS



JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

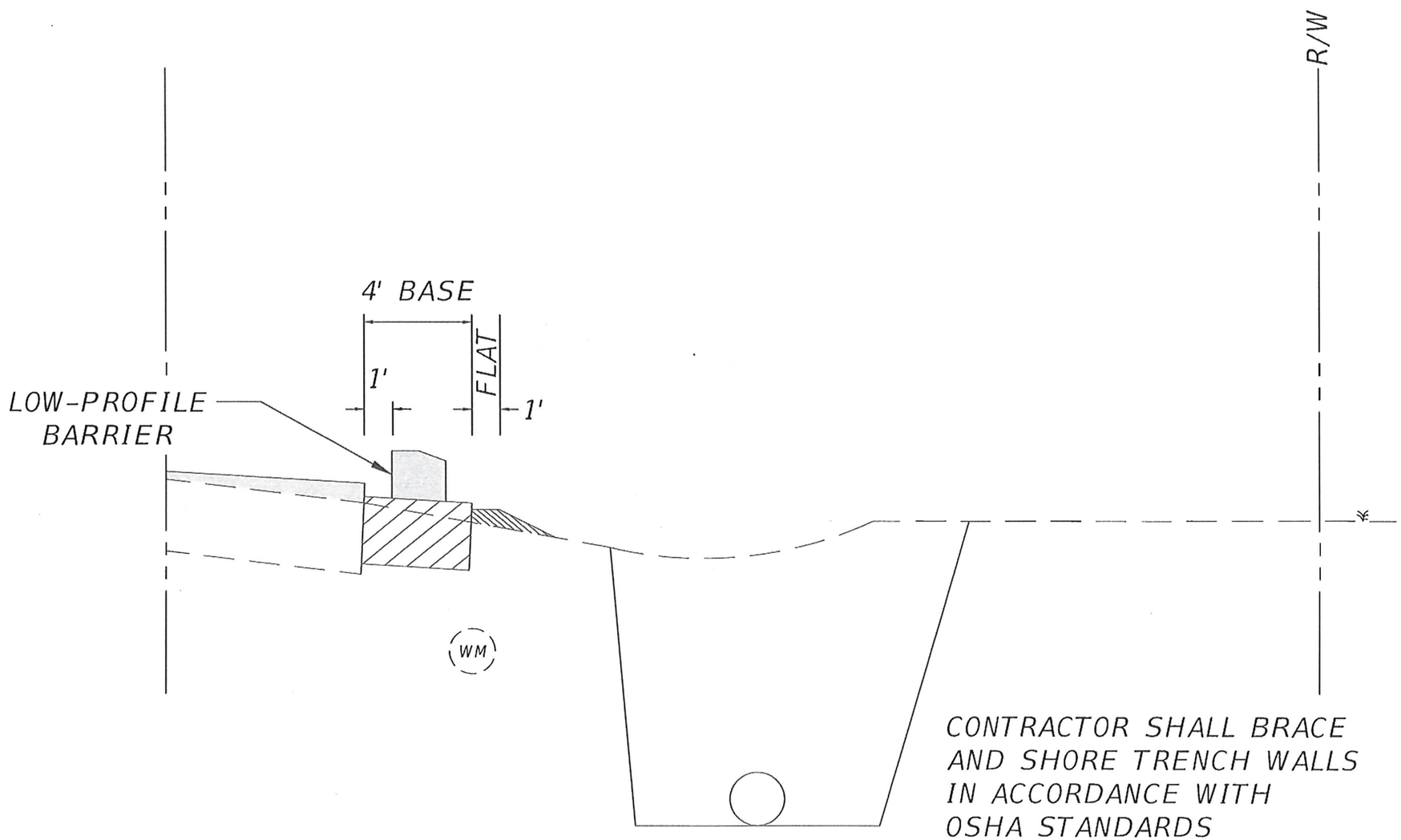
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 50

Anthony Fantauzzo 4/19/2017 8:54:43 AM X:\2015\L150624CCB\H. CADD\roadway\TCPLRD01.dwg

LAYING STORMSEWER TRUNK LINE



CONTRACTOR SHALL BRACE
AND SHORE TRENCH WALLS
IN ACCORDANCE WITH
OSHA STANDARDS

JAMES H. PITMAN, JR.
LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 51

CONTRACT PLANS

SW CALLAHAN AVENUE

FINANCIAL PROJECT ID 437006-1
NFPS PROJECT ID L150624CCB

COLUMBIA COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLANS

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	NOTES AND DETAILS
S-3 - S-7	SIGNING & PAVEMENT MARKING PLAN SHEETS

JAMES H. PITMAN, JR.
LICENSED
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2016-17 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm

APPLICABLE DSRs:

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, JAN, 2017 Standard Specifications for Road and Bridge Construction at the following website:http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks

SIGNING AND PAVEMENT MARKING PLANS
ENGINEER OF RECORD:

JAMES H. PITMAN
P.E. NO.:42035
NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CONTRACT NO.:
VENDOR NO.:
CERTIFICATE OF AUTHORIZATION NO.: 29011

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	16	S-1

SIGNING AND PAVEMENT MARKING NOTES

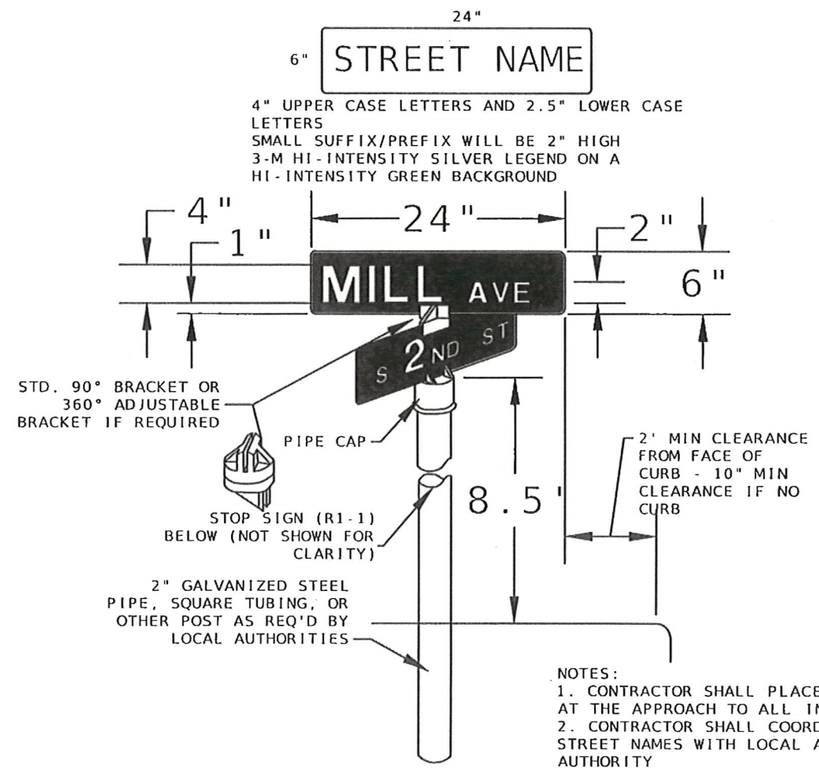
1. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.

2. ALL DIRECTIONAL ARROWS AND LETTERS FOR PAVEMENT MESSAGES SHALL BE PLACED AS ONE SEGMENT.

3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED UNLESS NOTED OTHERWISE IN THE PLANS.

4. CONSTRUCT PAVEMENT MARKINGS AND RPM'S IN ACCORDANCE WITH INDEXES 17346 AND 17352.

5. CONTRACTOR SHALL INSTALL TWO STREET NAME PANELS ON EACH R1-1 STOP SIGN ACCORDING TO DETAIL BELOW UNLESS NOTED OTHERWISE IN THE PLANS.



NOTES:
1. CONTRACTOR SHALL PLACE STREET SIGNS AT THE APPROACH TO ALL INTERSECTIONS
2. CONTRACTOR SHALL COORDINATE ALL STREET NAMES WITH LOCAL ADDRESSING AUTHORITY
3. BOTTOM OF R1-1 SIGNS SHALL BE NO LESS THAN 5 FEET ABOVE EXISTING GROUND

JAMES H. PITMAN, JR. LICENSE
James Pitman
No. 42035
STATE OF
9-28-17
FLORIDA
PROFESSIONAL ENGINEER

1 / S-2 STREET SIGN DETAIL
SCALE: N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

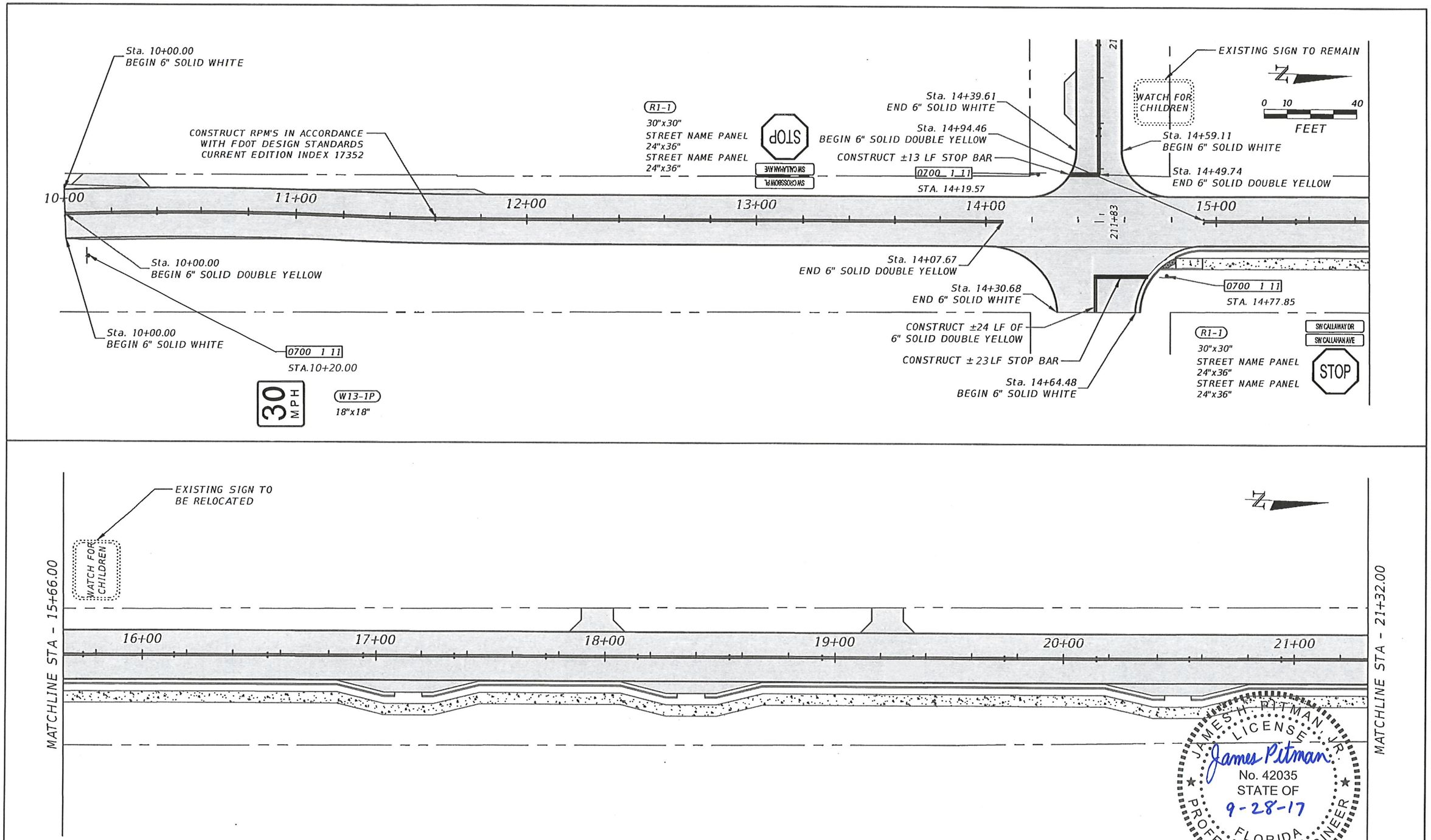
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

NOTES AND DETAILS

SHEET NO. S-2

Anthony Fantauzzo 4/19/2017 8:54:54 AM X:\2015\L150624CCB\H. CADD\signing\GNNTSP01.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

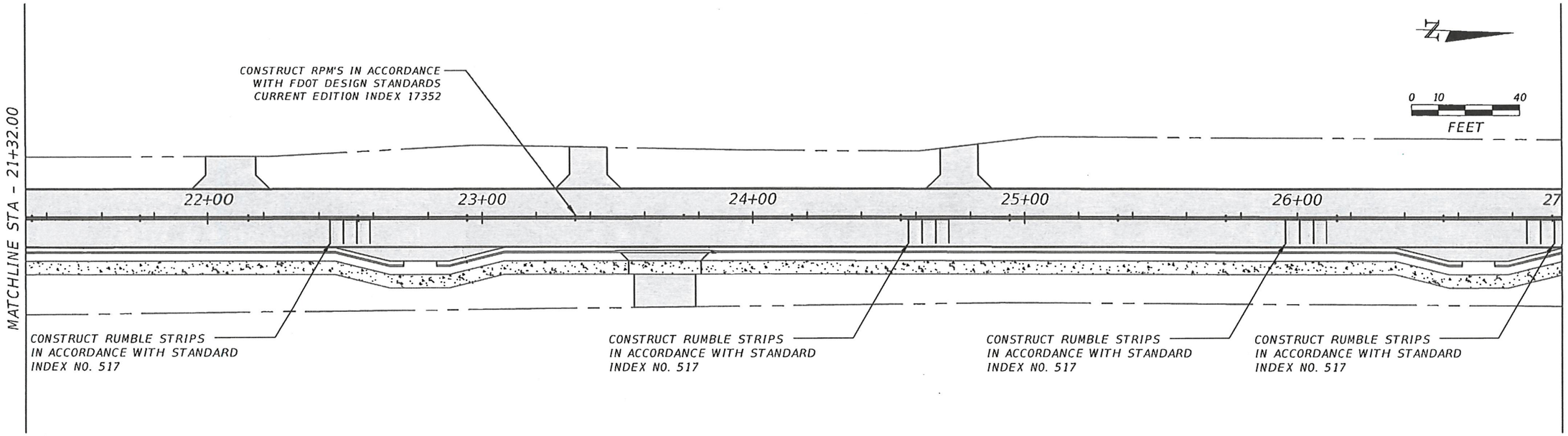
COLUMBIA COUNTY BOCC

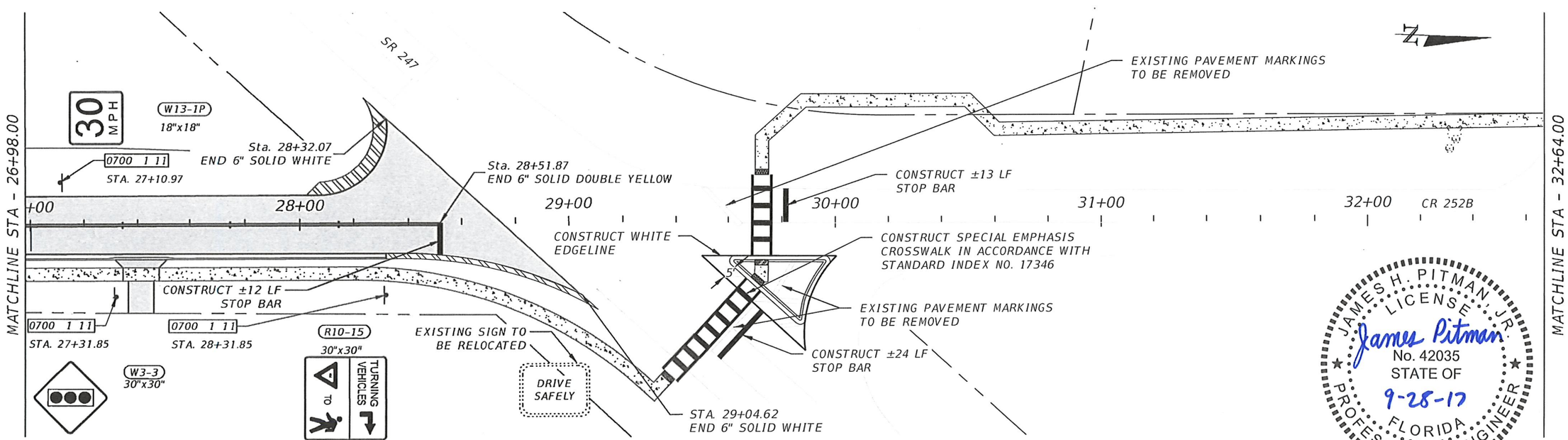
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
S-3

Anthony Fantauzzo 4/19/2017 8:54:58 AM X:\2015\L150624CCB\H. CADD\signing\PLANSP01.dwg





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

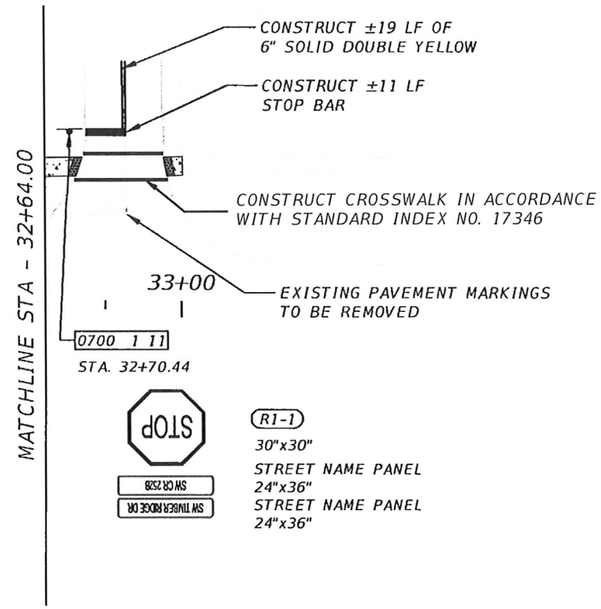
COLUMBIA COUNTY BOCC

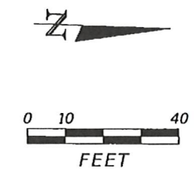
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
S-4

Anthony Fantauzzo 4/19/2017 8:54:58 AM X:\2015\L150624CCB\H. CADD\signing\PLANSP01.dwg





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

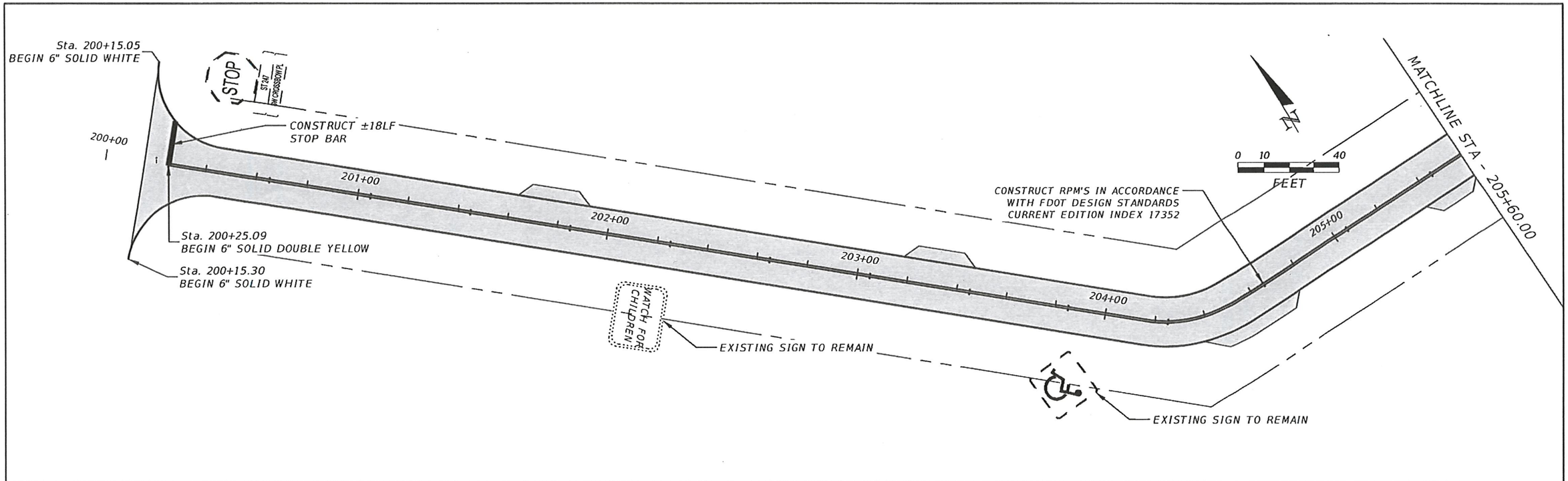
COLUMBIA COUNTY BOCC

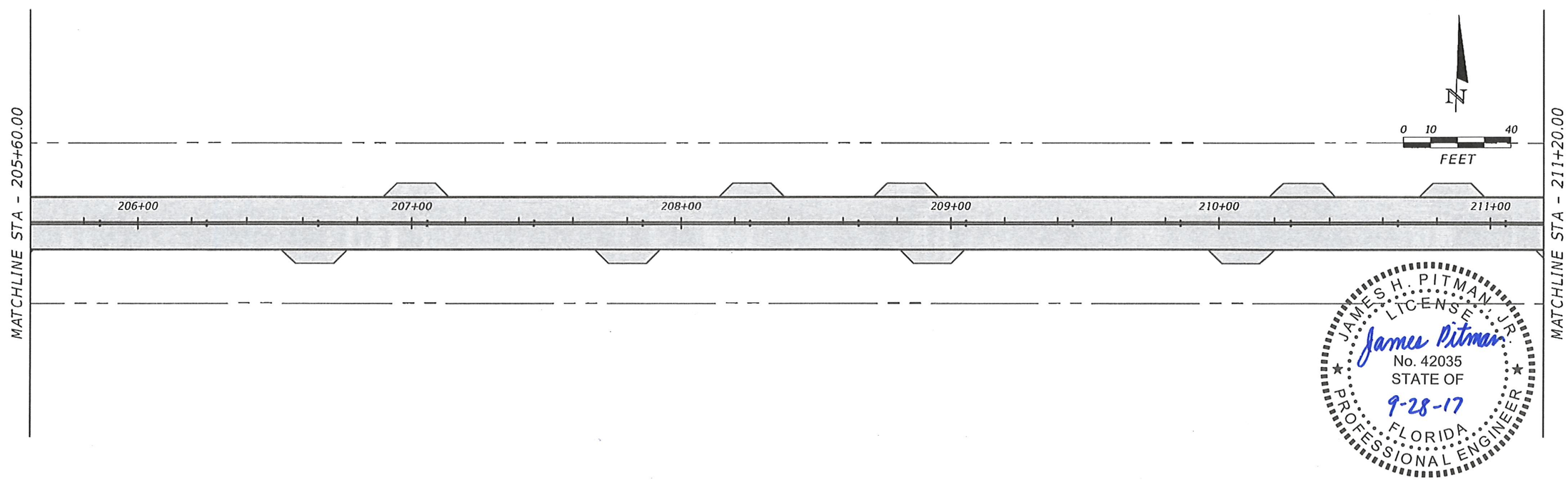
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
S-5

Anthony Fantauzzo 4/19/2017 8:54:59 AM X:\2015\L150624CCB\H. CADD\signing\PLANSP01.dwg





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

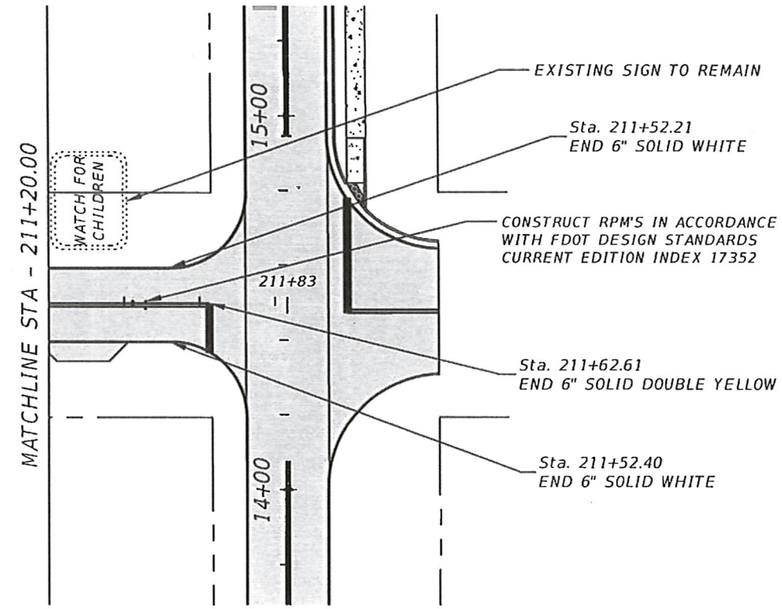
COLUMBIA COUNTY BOCC

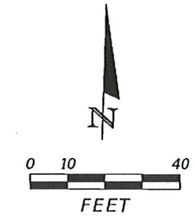
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
S-6

Anthony Fantauzzo 4/19/2017 8:54:59 AM X:\2015\L150624CCB\H. CADD\signing\PLANSP01.dwg





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JAMES H. PITMAN
P.E. LICENSE NUMBER 42035
NFPS
P.O. BOX 3823
LAKE CITY, FLORIDA 32056
CERTIFICATE OF AUTHORIZATION 29011

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	437006-1

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
S-7

Anthony Fantauzzo 4/19/2017 8:54:59 AM X:\2015\L150624CCB\H. CADD\signing\PLANSP01.dwg

CONTRACT PLANS

SW CALLAHAN AVENUE

FINANCIAL PROJECT ID 437006-1
NFPS PROJECT ID L150624CCB

COLUMBIA COUNTY, FLORIDA

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-0	KEY SHEET
T-1	SIGNALIZATION GENERAL NOTES
T-2	SIGNALIZATION PLAN
T-3	SIGNALIZATION DETAILS

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2016-17 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm

APPLICABLE DSRs:

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, JAN, 2017 Standard Specifications for Road and Bridge Construction at the following website: http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks

JOHN H. MOYE
LICENSE
No. 36131
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SIGNALIZATION PLANS
ENGINEER OF RECORD:

JOHN H. MOYE
P.E. NO.:36131
WAITZ & MOYE, INC.
3738 SOUTHSIDE BLVD., SUITE 101
JACKSONVILLE, FLORIDA 32216
CONTRACT NO.:
VENDOR.:
CERTIFICATE OF AUTHORIZATION NO.: 6234

6/15/17

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	16	T-0

SIGNALIZATION GENERAL NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXISTING UTILITIES ARE TO REMAIN IN PLACE, UNLESS OTHERWISE NOTED.

2. UTILITY CONTACT INFORMATION CAN BE LOCATED ON THE INDIVIDUAL UTILITY SCHEDULES AS SHOWN IN SECTION 7-11.6.3 OF THE FDOT SPECIFICATIONS.

3. CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.

4. NOTIFY THE TRAFFIC SIGNAL MAINTAINING AGENCY AT LEAST TWO WORKING DAYS IN ADVANCE OF WORK COMMENCING, INSTALLATION OF VEHICLE LOOPS, ACTIVATION OF NEW SIGNALS, OR FINAL INSPECTION. THE TRAFFIC SIGNAL MAINTAINING AGENCY IS:

   BOBBY CECERE (386)984-5940
   COLUMBIA COUNTY TRAFFIC OPERATIONS

5. FIELD ADJUST THE LOCATION OF PROPOSED CONDUIT AND PULL BOXES TO AVOID UTILITIES.

6. EXCAVATE THE FIRST 4 FEET OF SIGNAL POLE FOOTINGS BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.

7. THERE SHALL BE NO LOOP LEAD-INS AND SIGNAL CABLE IN THE SAME CONDUIT OR PULL BOX.

8. SPARE CONDUIT RUNS FROM THE CONTROLLER BASE SHALL BE TERMINATED, ONE EACH, IN THE NEAREST LOOP LEAD-INS PULL BOX AND SIGNAL CABLE PULL BOX.

9. ASSUME OWNERSHIP OF ALL REMOVED MATERIALS AND EQUIPMENT INCLUDING CONCRETE, CABLE, WIRE, PULL BOXES, AND CONDUIT.

10. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLES WITH TRAFFIC SIGNAL MAINTAINING AGENCY.

11. REMOVE LOOP CABLE NO LONGER IN SERVICE.

12. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED IN PEDESTRIAN PEDESTAL BASES OR PULL BOXES.

13. SHOP DRAWINGS FOR PROPOSED EQUIPMENT TO BE SUBMITTED TO COLUMBIA COUNTY TRAFFIC OPERATIONS FOR APPROVAL BEFORE ORDERING.

SIGNALIZATION PAY ITEM NOTES:

630-2-12	VERIFY VERTICALLY AND HORIZONTALLY (VVH) EXISTING UTILITIES WITHIN 5 FEET OF THE PROPOSED BORE PATH PRIOR TO ANY JACKING OR DIRECTIONAL BORE. COST SHALL BE INCLUDED IN THE COST OF THE BORE.
635-2-1B	FURNISH PULL BOXES WITH POLYMER CONCRETE COVERS.
660-2-10B	ENSURE VEHICLE LOOP ASSEMBLIES ARE INSTALLED IN ACCORDANCE WITH INDEX 17781. TESTED AND FULLY OPERATIONAL PRIOR TO INSTALLATION OF THE FINAL FRICTION COURSE. USE A SEPARATE LEAD-IN CABLE FOR EACH LOOP.
660-2-106	ALL TYPE F LOOPS SHALL BE MODIFIED TO 30 FEET IN LENGTH AND SHALL EXTEND 4 FEET IN FRONT OF THE STOP BAR.
632-7-	INCLUDES ONLY SIGNAL CABLE REQUIRED TO CONSTRUCT NEW PEDESTRIAN SIGNALS.

SIGNALIZATION LEGEND:

EXISTING	PROPOSED/RELOCATED	
		SIGNALIZATION CONTROLLER CABINET
		TRAFFIC SIGNAL OR TRAFFIC LOOP PULL BOX
X		TRAFFIC SIGNAL HEAD NUMBER
	PX	PEDESTRIAN SIGNAL HEAD NUMBER
		TRAFFIC SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD AND POLE
L-XX	L-XX	VEHICLE LOOP ASSEMBLY TYPE "F"

JOHN H. MOYE
LICENSE
No. 36131
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

6/15/17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN H. MOYE, P.E.
P.E. LICENSE NUMBER 36131
WAITZ & MOYE, INC.
3738 SOUTHSIDE BLVD., SUITE 101
JACKSONVILLE, FLORIDA 32216
CERTIFICATE OF AUTHORIZATION 6234

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	

SIGNALIZATION GENERAL NOTES

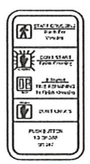
SHEET NO. T-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	TOTAL THIS SHEET
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	144
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	103
632-7-1	SIGNAL CABLE (NEW OR RECONSTRUCTED INTERSECTION), F&I	PI	1
635-2-11	PULL BOX, F&I, 13"x24" COVER SIZE	EA	4
646-1-11	ALUMINUM SIGNALS POLE, F&I, PEDESTAL	EA	3
653-1-11	PEDESTRIAN SIGNAL, F&I, LED-COUNT DOWN, 1 DIRECTION	AS	2
653-1-12	PEDESTRIAN SIGNAL, F&I, LED-COUNT DOWN, 2 DIRECTION	AS	1
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	3
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4

P2 P4

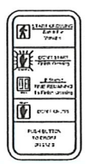
PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY
2 AS
653-1-11



9" x 18"
FTP-68B-06
MOUNT TO P1 AND P2 POLES (TO CROSS SR 247)

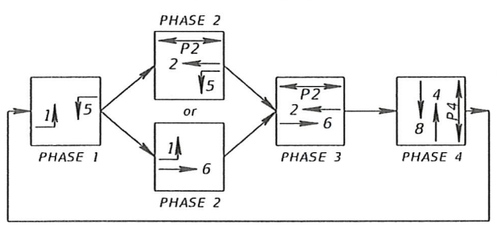
P2 P4

PED. SIGNAL COUNT-DOWN 1-SECT., 2-WAY
1 AS
653-1-12



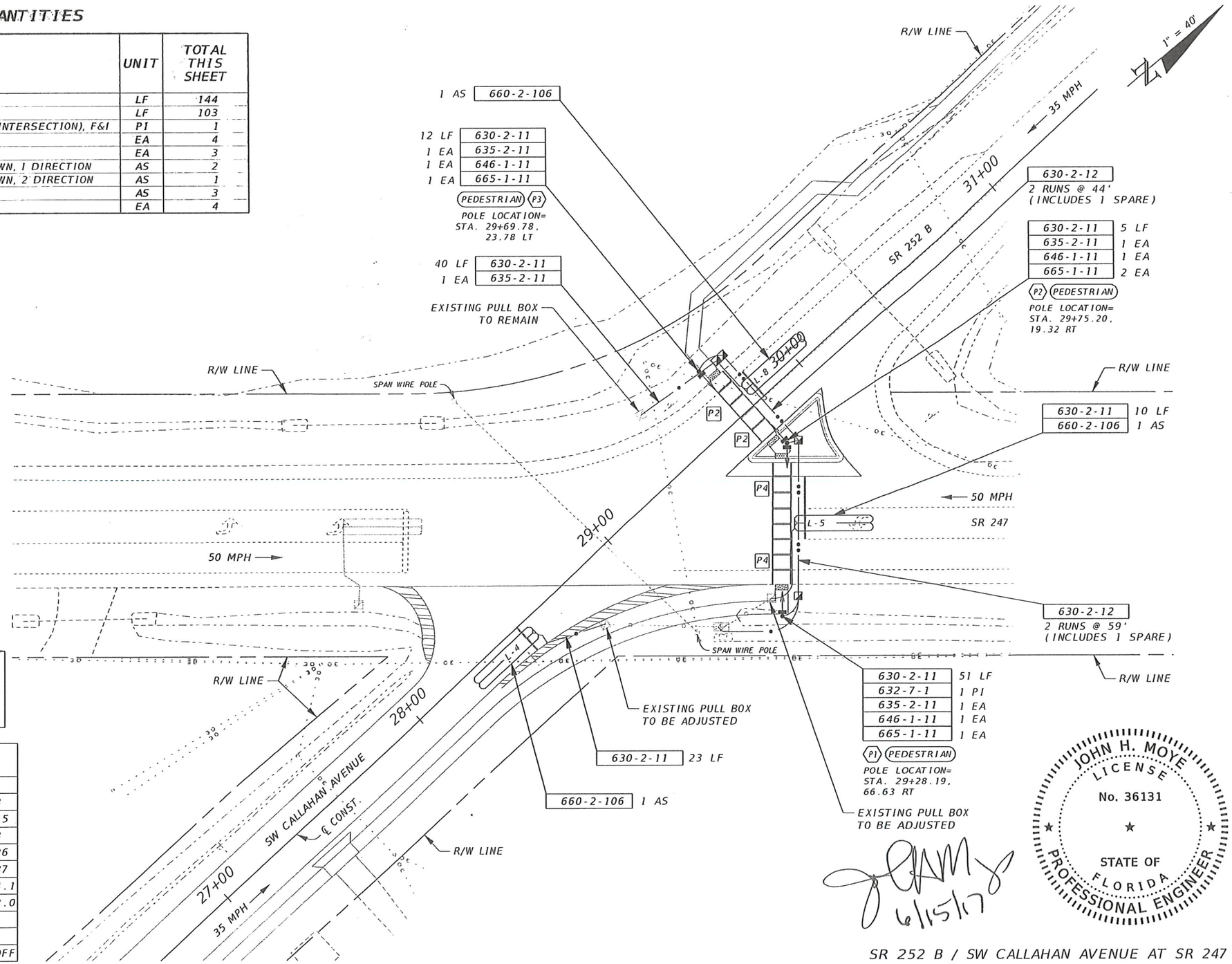
9" x 18"
FTP-68B-06
MOUNT TO P2 AND P3 POLES (TO CROSS SR 252 B)

SPECIAL S.O.P.



CONTROLLER TIMINGS

TIMING FUNCTION									
MOVEMENT NUMBER		1	2	-	4	5	6	-	8
TIMING FUNCTION	MINIMUM GREEN	7	20	-	15	7	20	-	15
	EXTENSION	3	5	-	3	3	5	-	3
	MAXIMUM GREEN 1	18	36	-	26	16	38	-	26
	MAXIMUM GREEN 2	25	58	-	37	18	65	-	37
	YELLOW CLEARANCE	4.8	4.8	-	4.1	4.8	4.8	-	4.1
	ALL RED	2.0	2.0	-	2.0	2.0	2.0	-	2.0
	PEDESTRIAN WALK		7	-	7			-	-
	PED. CLEARANCE		9	-	12			-	-
	RECALL	OFF	MIN	-	OFF	OFF	MIN	-	OFF



6/15/17

JOHN H. MOYE
LICENSE
No. 36131
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SR 252 B / SW CALLAHAN AVENUE AT SR 247

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN H. MOYE, P.E.
P.E. LICENSE NUMBER 36131
WAITZ & MOYE, INC.
3738 SOUTHSIDE BLVD., SUITE 101
JACKSONVILLE, FLORIDA 32216
CERTIFICATE OF AUTHORIZATION 6234

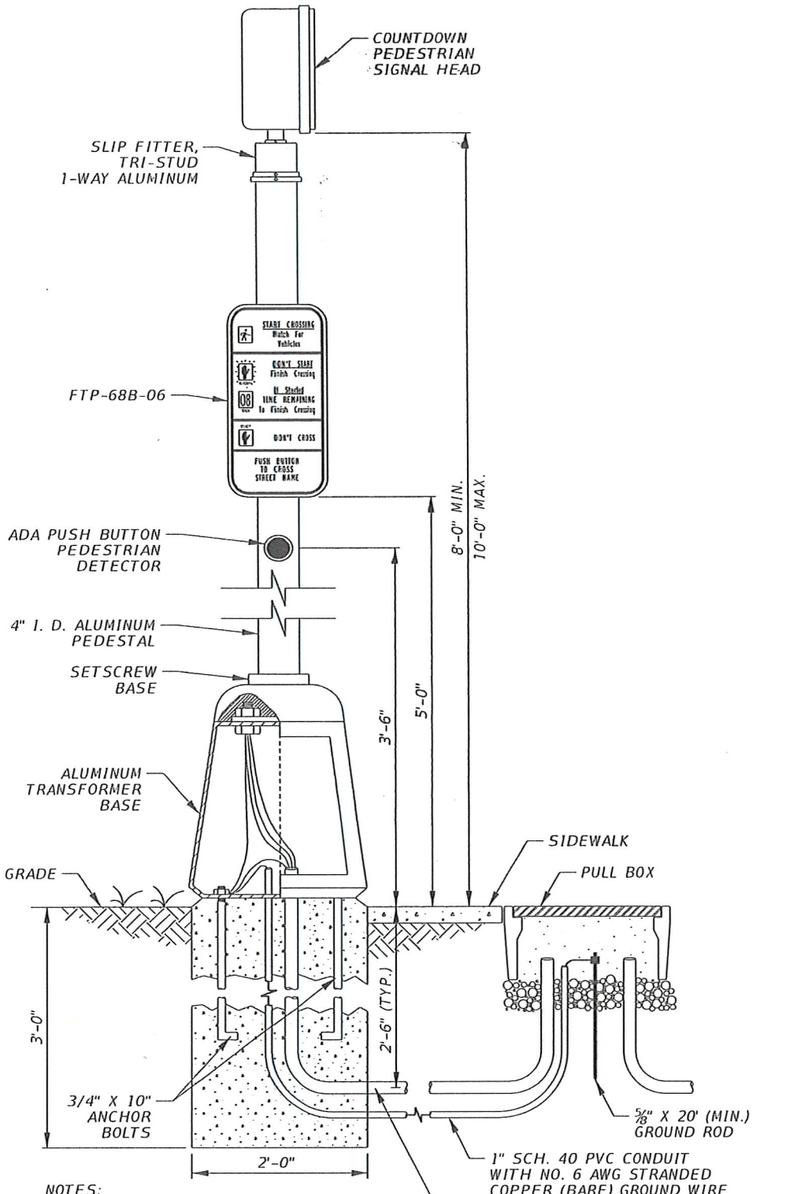
COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	

SIGNALIZATION PLAN

SHEET NO. T-2

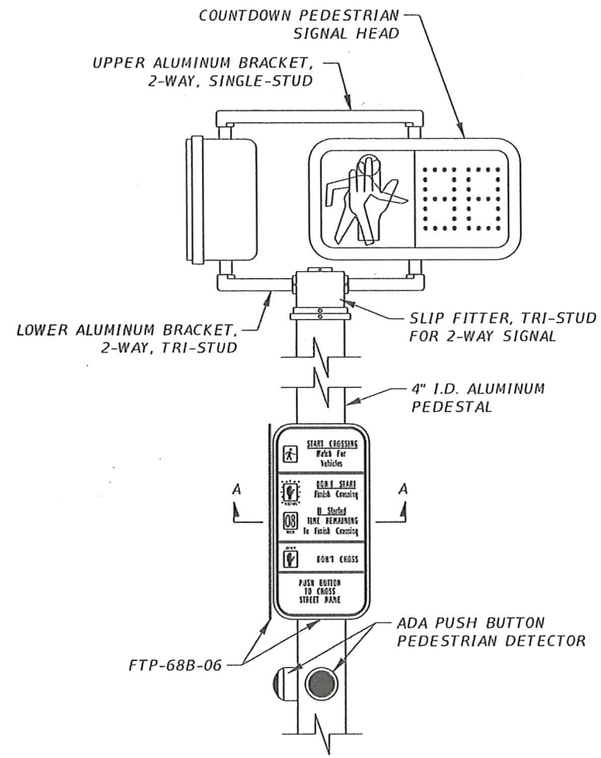
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



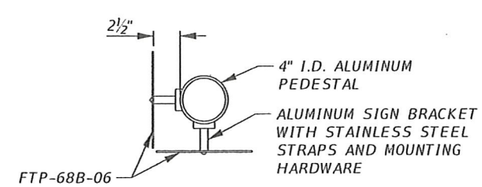
NOTES:

1. ORIENT THE PEDESTRIAN DETECTOR ASSEMBLY AND SIGN TO POINT TOWARD THE SIDEWALK AND PERPENDICULAR TO THE CORRESPONDING CROSSWALK.
2. INSTALL 12" WIDE (MIN.) SOD STRIP AROUND PEDESTRIAN SIGNAL PEDESTAL.
3. CONCRETE FOUNDATION SHALL BE CLASS I.

PEDESTRIAN SIGNAL PEDESTAL DETAIL



SIDE VIEW

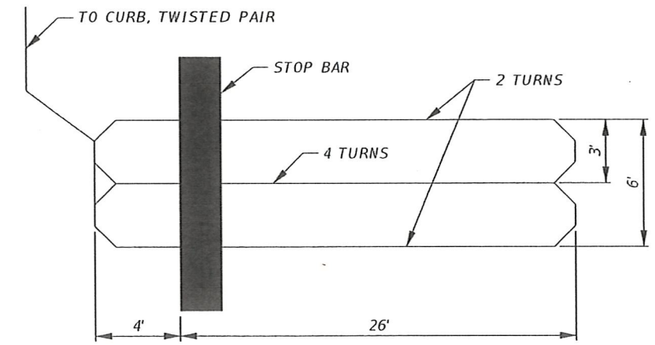


SECTION A-A

NOTE:

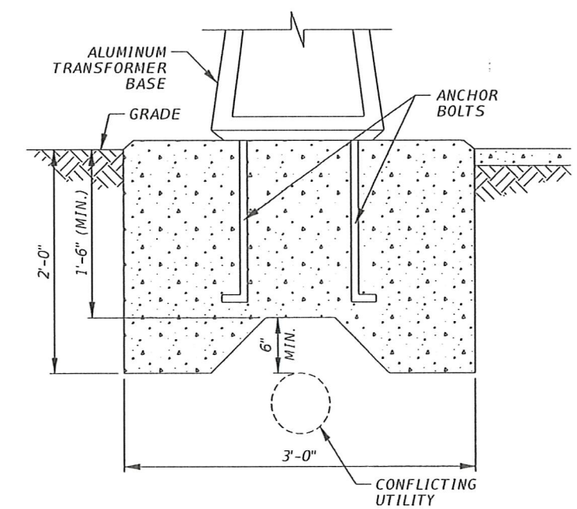
ORIENT THE PEDESTRIAN DETECTOR ASSEMBLY AND SIGN TO POINT TOWARD THE SIDEWALK AND PERPENDICULAR TO THE CORRESPONDING CROSSWALK.

2-WAY PEDESTRIAN SIGNAL HEAD, DETECTOR, AND SIGN INSTALLATION DETAIL



NOTE:
SEE INDEX 17781 FOR ADDITIONAL REQUIREMENTS.

TYPE "F" LOOP DETAIL



ALTERNATE PEDESTAL SPREAD FOUNDATION
WHEN APPROVED BY ENGINEER

6/15/17

JOHN H. MOYE
LICENSE
No. 36131
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN H. MOYE, P.E.
P.E. LICENSE NUMBER 36131
WAITZ & MOYE, INC.
3738 SOUTHSIDE BLVD., SUITE 101
JACKSONVILLE, FLORIDA 32216
CERTIFICATE OF AUTHORIZATION 6234

COLUMBIA COUNTY BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CALLAHAN	COLUMBIA	

SIGNALIZATION DETAILS

SHEET NO.
T-3