

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS**  
**COLUMBIA COUNTY PROJECT NUMBER 2016-09**  
**SW Brim St. – 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 **October 31<sup>st</sup>, 2016**, for Columbia County Project No. **2016-09**. 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 the construction of a new paved two lane roadway along the existing alignment from SW Godbold Ave to SW Barwick Ter., from SW Barwick Ter. to SW Birley Ave will be new construction of a paved two lane road. This project will also consist of constructing side drains and cross drains with end treatments, grassing all disturbed areas and replacement of all signs within project limits.

Scope of work includes clearing and grubbing, grading, stabilizing, limerock base, asphaltic concrete (structural and surface), driveway improvements, culverts, 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 **October 21<sup>st</sup>, 2016**.

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 of 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

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Bucky Nash, Chair

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS**  
**COLUMBIA COUNTY PROJECT NUMBER 2016-09**  
**ENGINEER'S PROJECT NUMBER L130715CCB**  
**SW Brim St. – Roadway Construction**

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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.

<b>BRIM STREET</b>					
NFPS Project No.: L130715CCB					
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	1	LS		
0110 1 1	CLEARING & GRUBBING	1	LS		
0120 71	REGULAR EXCAVATION	1	LS		
0120 2 2	BORROW EXCAVATION	10,656	CY		
0120 4	SUBSOIL EXCAVATION	5,500	CY		
0160 1	COMMERCIAL STABILIZING MATERIAL	2,679	CY		
0160 4	STABILIZING (ROADWAY AND SHOULDER)	48,219	SY		
0285704	OPTIONAL BASE, BASE GROUP 04	35,297	SY		
0286 1	TURNOUT CONSTRUCTION	5,439	SY		
0334 1 12A	SUPERPAVE ASPHALTIC CONC, TRAFFIC B (9.5)	2,368	TN		
0334 1 12B	SUPERPAVE ASPHALTIC CONC, TRAFFIC B (12.5)	2,841	TN		
0430174118	PIPE CULVERT ROUND CMP, COATED, 18" SD	1,600	LF		
0430175118	PIPE CULVERT ROUND CONCRETE, 18" CD	182	LF		
0430982125	MITERED END SECTION, ROUND CONCRETE, 18"CD	10	EA		
0430984125	MITERED END SECTION, ROUND CMP, 18" SD	114	EA		
0570 1 1	PERFORMANCE TURF (SEED & MULCH)	17,218	SY		
0570 1 2	PERFORMANCE TURF, SOD	61,980	SY		
0700 1 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	77	EA		
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	590	EA		
0710 90	PAINTED PAVEMENT MARKINGS	1	LS		

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Pay Item Notes:

0102 1 - 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.

0104 10 3 - 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.

0110 1 1 - Clearing and Grubbing – Includes removal of all pavement, pipe, vegetation, or any other demolition required for the project.

0120 4 - Subsoil Excavation – Include removal of unsuitable material 24” deep and replace with suitable material compacted in six (6) inch lifts.

0160 1 - Commercial Stabilizing Material – Apply 2” of material as needed to meet the LBR. May be increased, decreased, or omitted.

0160 4 - Stabilizing (Roadway and Shoulder) – Includes mixing, compacting, and meeting LBR requirements.

0286 1 – Turnout Construction – Includes the excavation, compaction of subgrade, base material, base construction and asphalt pavement for all turnouts.

0430174118 – Pipe Culvert Round CMP, Coated, 18” SD - Pipe lengths in plans include end treatments. Pipe lengths on bid form do not include end treatments.

0430174118 – Pipe Culvert Round Concrete, 18” CD - Pipe lengths in plans include end treatments. Pipe lengths on bid form do not include end treatments.

0570 1 1 - Performance Turf (Seed and Mulch) – Includes all areas disturbed and not sodded.

0710 90 - Painted Pavement Markings – Includes temporary and permanent pavement markings.

ADDENDA	
NUMBER	DATE SENT

<b>BID TOTAL FOR SW. BRIM STREET CONSTRUCTION</b>

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**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.: \_\_\_\_\_

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS  
COLUMBIA COUNTY PROJECT NUMBER 2016-09  
ENGINEER'S PROJECT NUMBER L130715CCB  
SW Brim St. – Roadway Construction**

**General Requirements**

**I. General.**

This project consists of the construction of a new paved two lane roadway along the existing alignment from SW Godbold Ave. to SW Barwick Ter., from SW Barwick Ter. to SW Birley Ave. will be new construction of a paved two lane road. This project also consists of constructing side drains and cross drains with end treatments, grassing all disturbed areas and replacement of all signs within project limits.

**II. Contract Time**

The contract time shall be 240 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.

Overhead/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 8 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.

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**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.

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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

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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

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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.

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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.

# CONTRACT PLANS

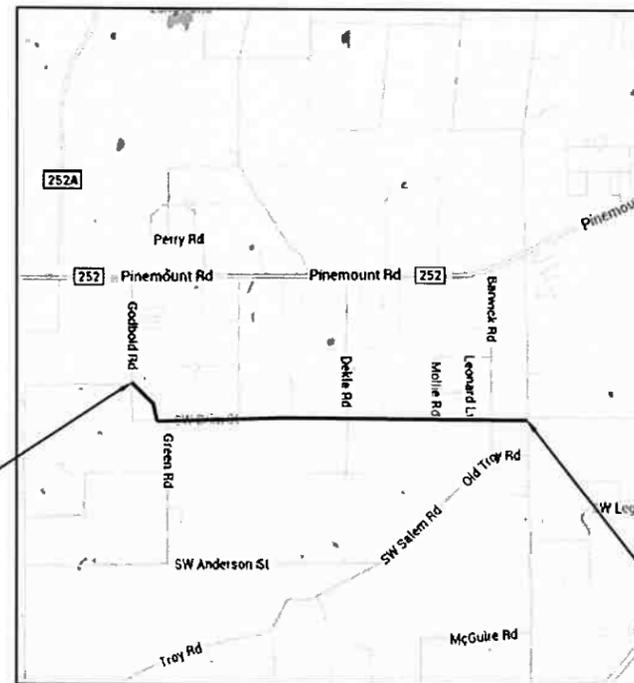
## SW BRIM STREET

### COLUMBIA COUNTY, FLORIDA

COLUMBIA COUNTY PROJECT # 2016-09



**COLUMBIA COUNTY**



**BEGIN PROJECT  
STA 14+48.15**

**END PROJECT  
STA 169+44.58**

## SHEET INDEX

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**SUBMIT SHOP DRAWINGS TO:**

NORTH FLORIDA PROFESSIONAL SERVICES, INC.  
P.O. BOX 3823  
LAKE CITY, FL 32056

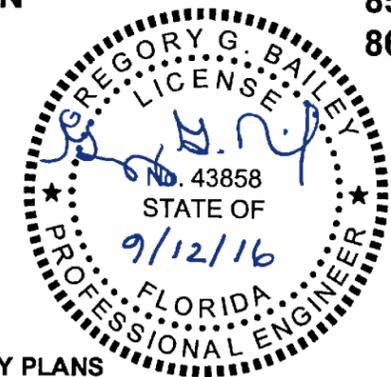
**PLANS PREPARED FOR:**

COLUMBIA COUNTY BOCC  
PO BOX 1529  
LAKE CITY, FLORIDA, FL 32056  
386-758-1005

**FINAL BID DOCUMENT  
SEPT/2016**

PROJECT LENGTH IS BASED ON  $\frac{1}{4}$  OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	15,496.43	2.935
BRIDGES		
NET LENGTH OF PROJECT	15,496.43	2.935
EXCEPTIONS		
GROSS LENGTH OF PROJECT	15,496.43	2.935



ROADWAY PLANS  
ENGINEER OF RECORD:  
GREGORY G. BAILEY  
PE # 43858

File Location: X:\2013\130715CCB\Planning & Design\CADD\CCBgen01REV\COV01  
Date Created: September 12, 2016  
Date Last Saved: September 12, 2016  
Date Plotted: September 12, 2016

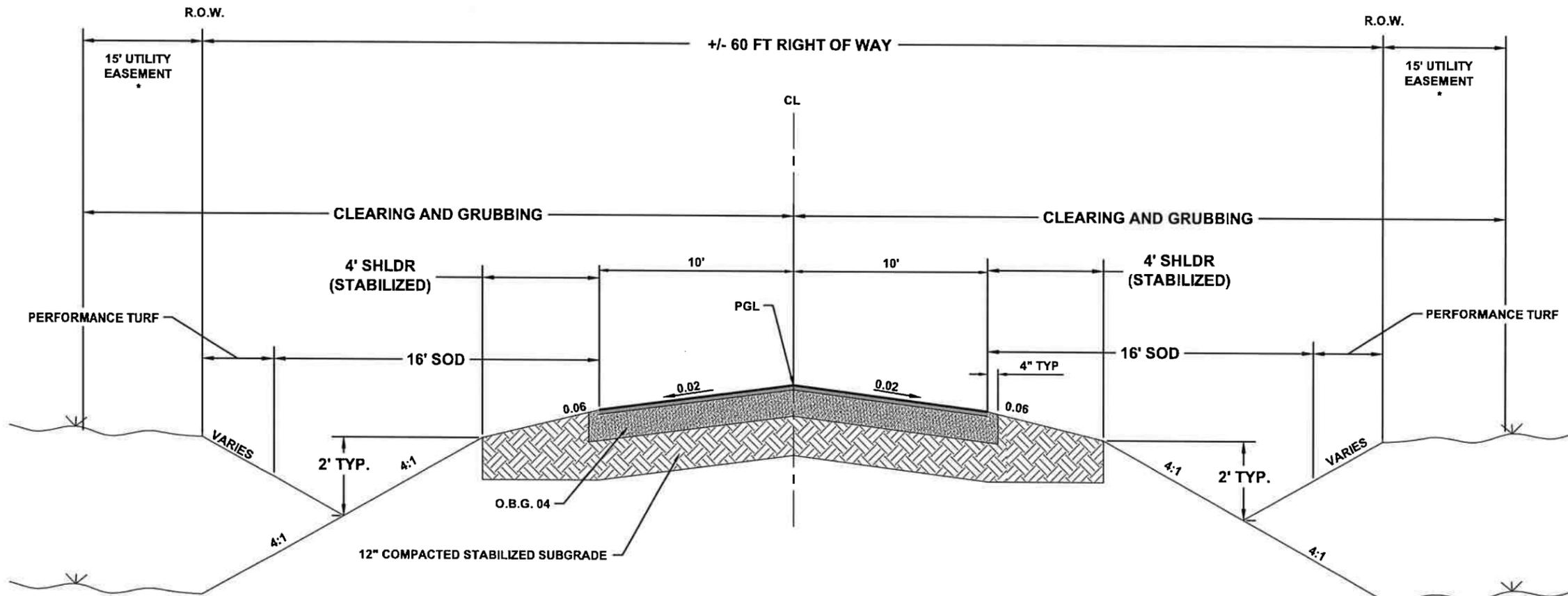
North Florida Professional Services, Inc.  
P.O. BOX 3823  
LAKE CITY, FL 32056  
Ph. 386-752-4475  
Fax. 386-752-4674  
Eng. Lic. 29011



**COVER SHEET**

JOB NUMBER: L130715CCB  
DESIGNED BY: [ ]  
DRAFTED BY: [ ]  
CHECKED BY: [ ]  
DATE: 2/2014  
SHEET NO. 1





\* WHERE DENOTED ON PLAN SHEETS

**NOTES:**

1. SEE PLAN & PROFILE SHEETS FOR SPECIAL DITCH PROFILES.
2. PAVEMENT MARKINGS SHALL BE PLACED IN TWO APPLICATIONS.
3. SOME CROSS DRAIN PIPE WILL BE WITHIN THE STABILIZATION WORK ZONE. EXERCISE CAUTION TO AVOID IMPACTING THE PIPE DURING THE STABILIZATION OPERATION.

**TYPICAL SECTION**

STA. 14+48.15 TO 35+56.17  
 DESIGN SPEED = 30 MPH

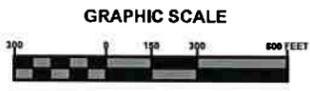
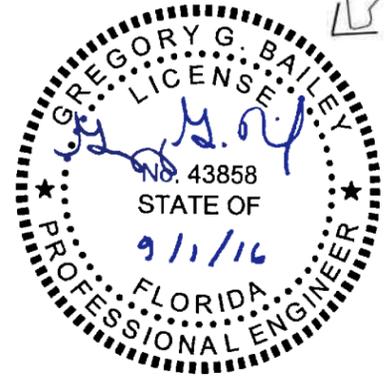
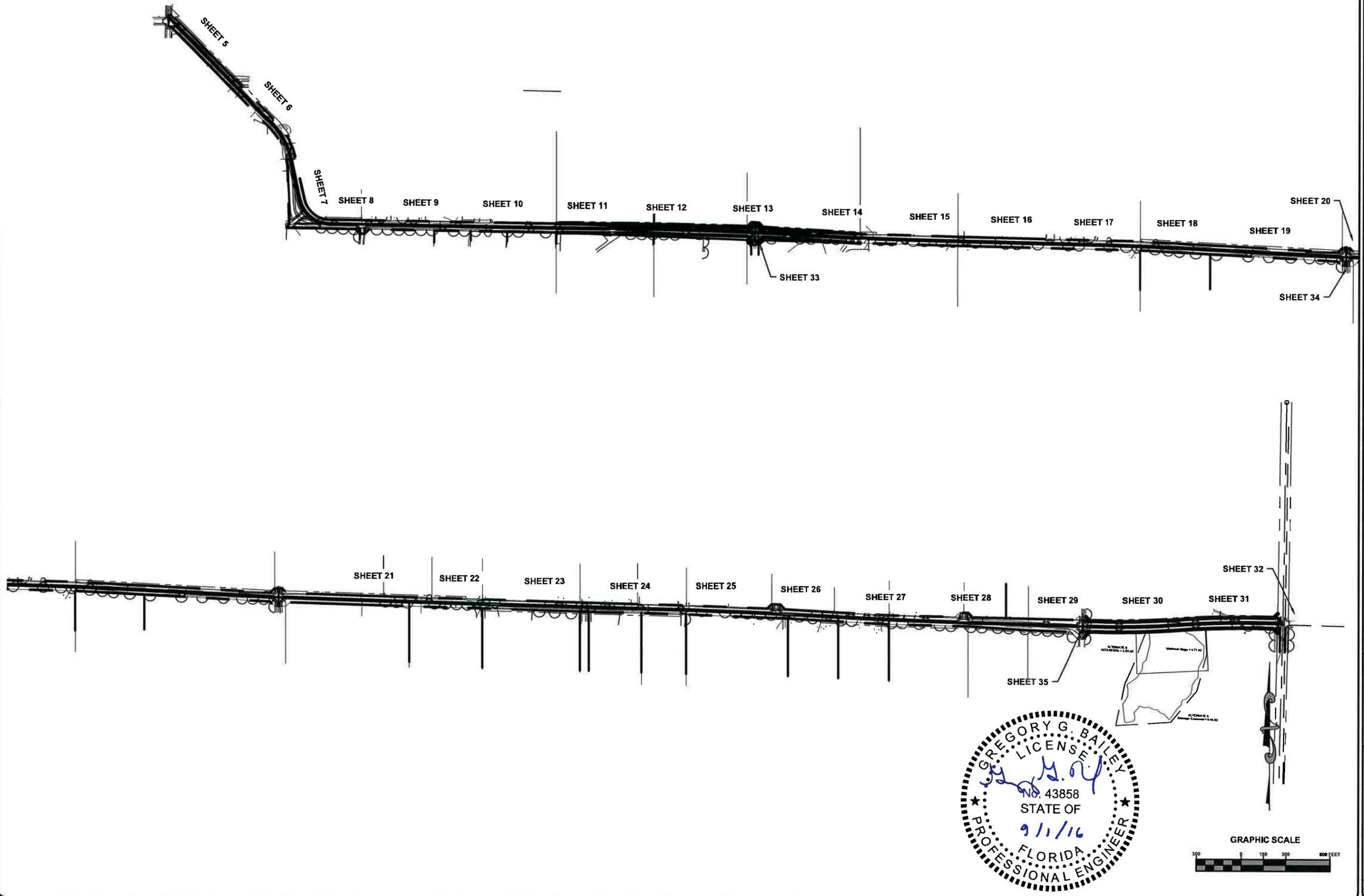
STA. 35+56.17 TO 169+44.58  
 DESIGN SPEED 50 MPH

OPTIONAL BASE GROUP 04 WITH  
 TYPE SP 9.5 STRUCTURAL COURSE (TL-B)(1.25")  
 TYPE SP 12.5 STRUCTURAL COURSE (TL-B)(1.5")



JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
CHECKED BY:	CM
DATE:	2/2014
SIGNATURE & SEAL:	PB
SHEET NO.:	3

**TYPICAL SECTION**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FL.



North Florida Professional Services, Inc.  
P.O. BOX 3823  
Lake City, FL 32025  
Ph: 386-752-4675  
Fax: 386-752-4674



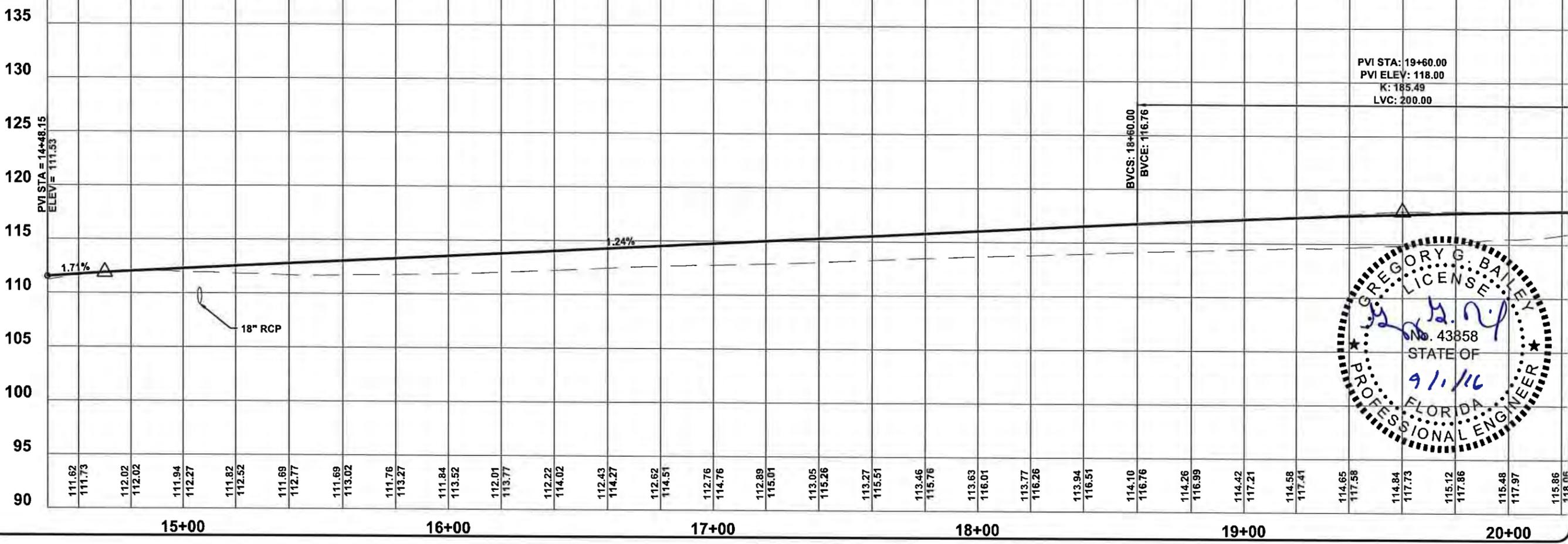
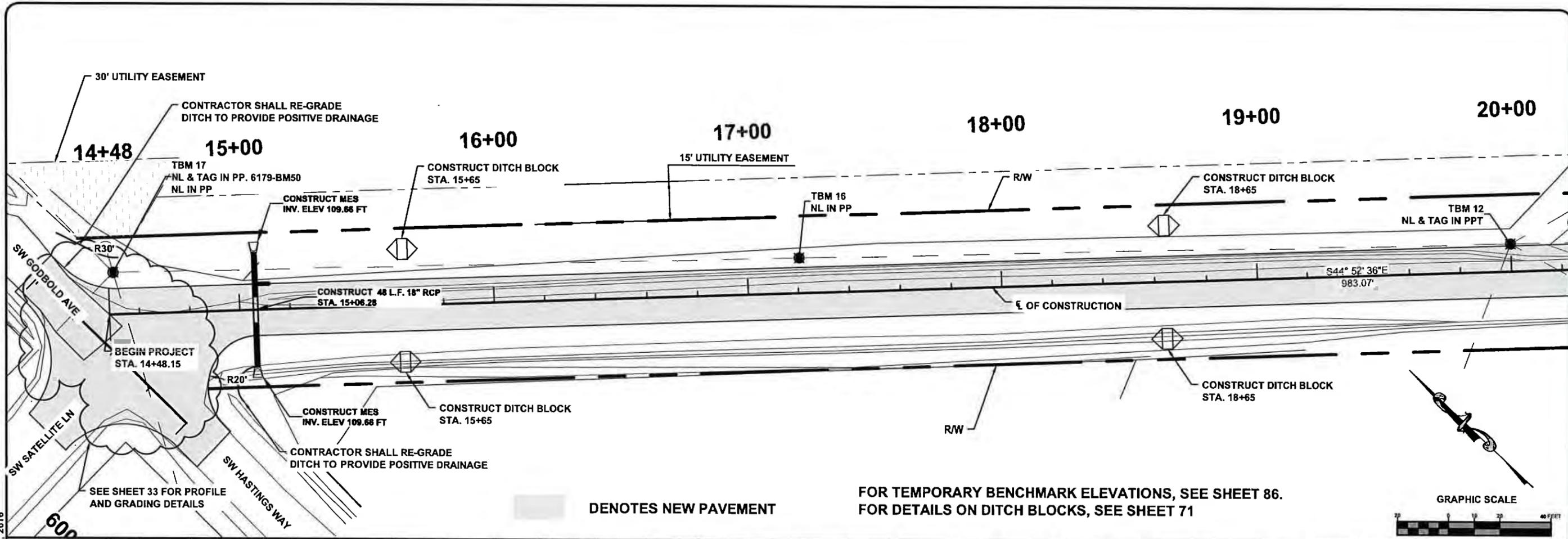
**SHEET LAYOUT**  
SW BRIM STREET  
COLUMBIA COUNTY, FLORIDA

REVISIONS:

DESIGNED BY:	CM
DRAWN BY:	CM
CHECKED BY:	PB
SIGNATURE & SEAL:	

DATE: 2/2014  
SHEET NO. 4

File Location: X:\2013\130715CCB\Planning & Design\CADD\c\CCB\sdn01REV\PPR\_5  
 Date Created: September 1, 2016 Date Last Saved: September 1, 2016 Date Plotted: September 1, 2016



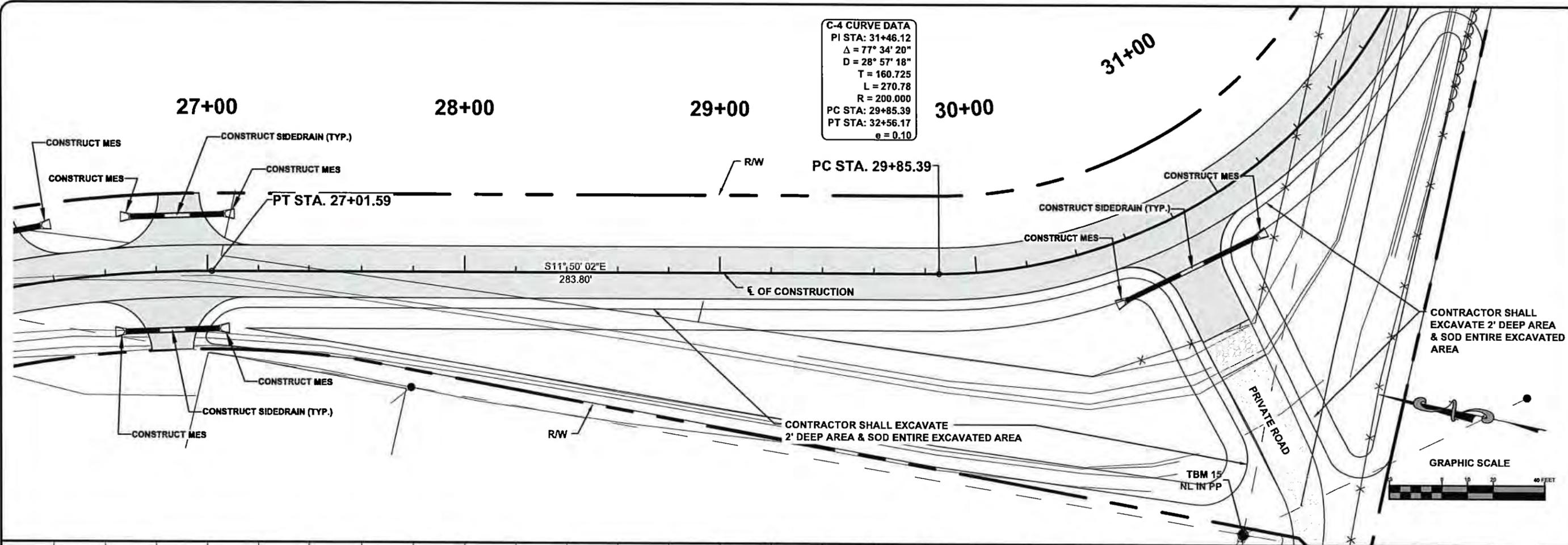
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

**PLAN & PROFILE SHEET**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

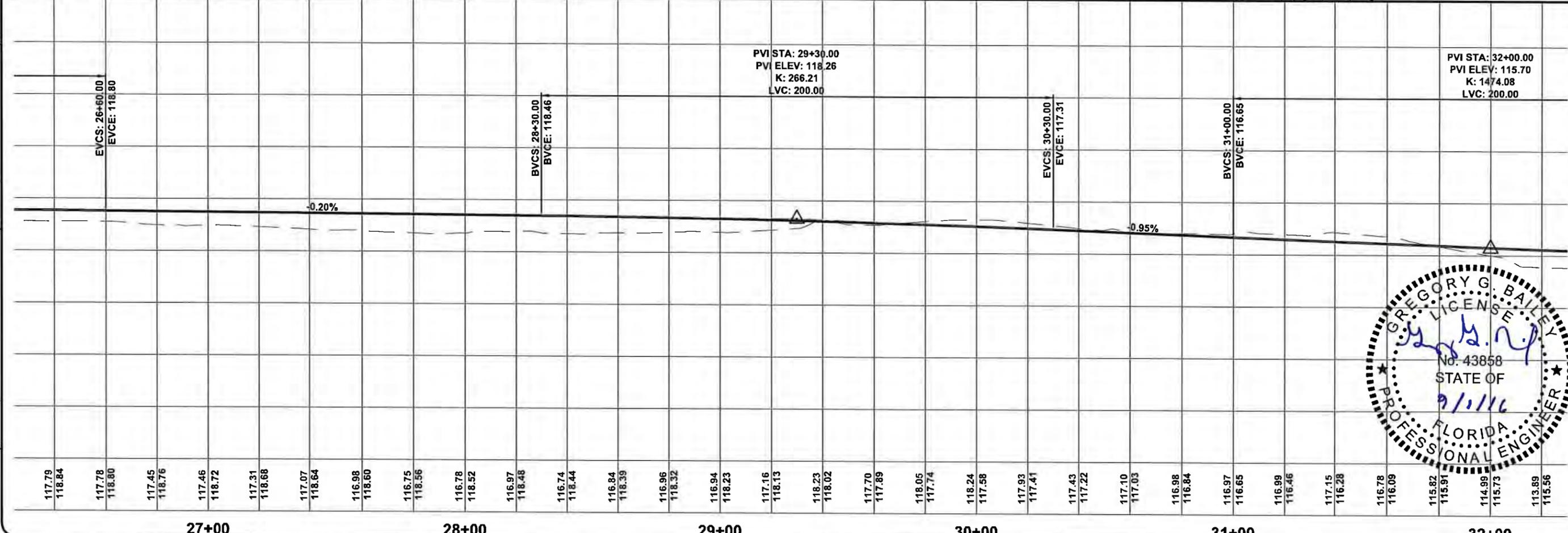
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**C-4 CURVE DATA**  
 PI STA: 31+46.12  
 $\Delta = 77^\circ 34' 20''$   
 $D = 28^\circ 57' 18''$   
 $T = 160.725$   
 $L = 270.78$   
 $R = 200.000$   
 PC STA: 29+85.39  
 PT STA: 32+56.17  
 $e = 0.10$



GREGORY G. BAILEY  
 LICENSE  
 No. 43858  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER

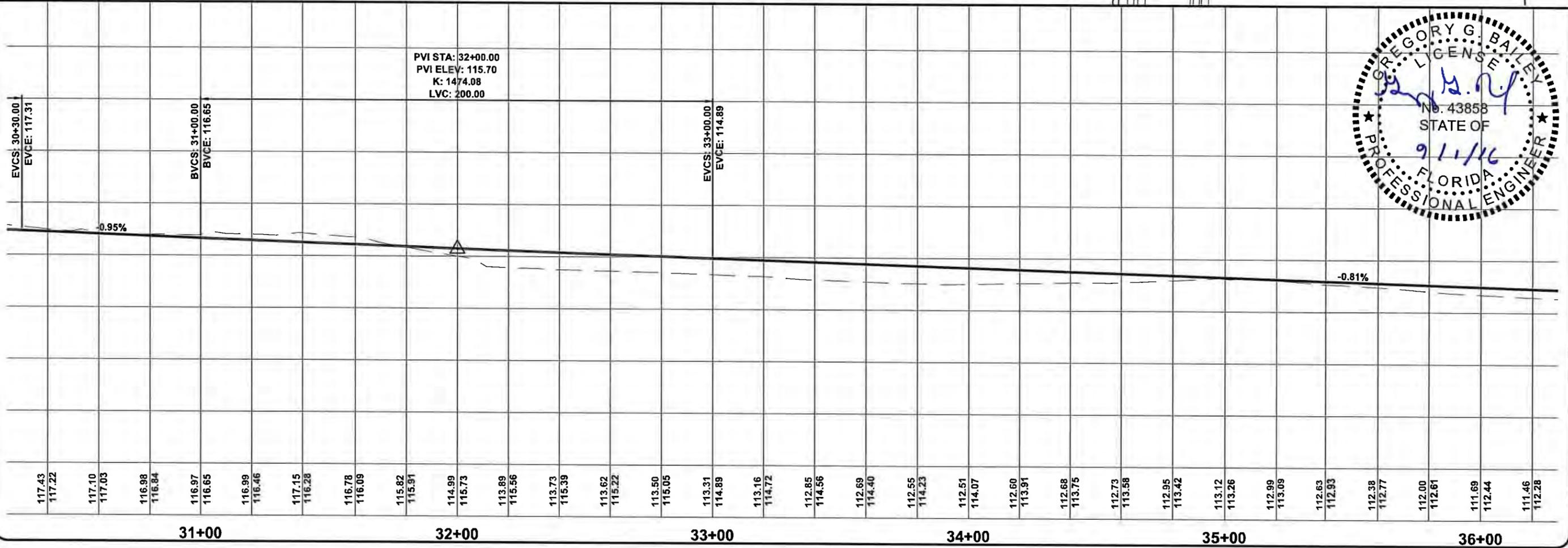
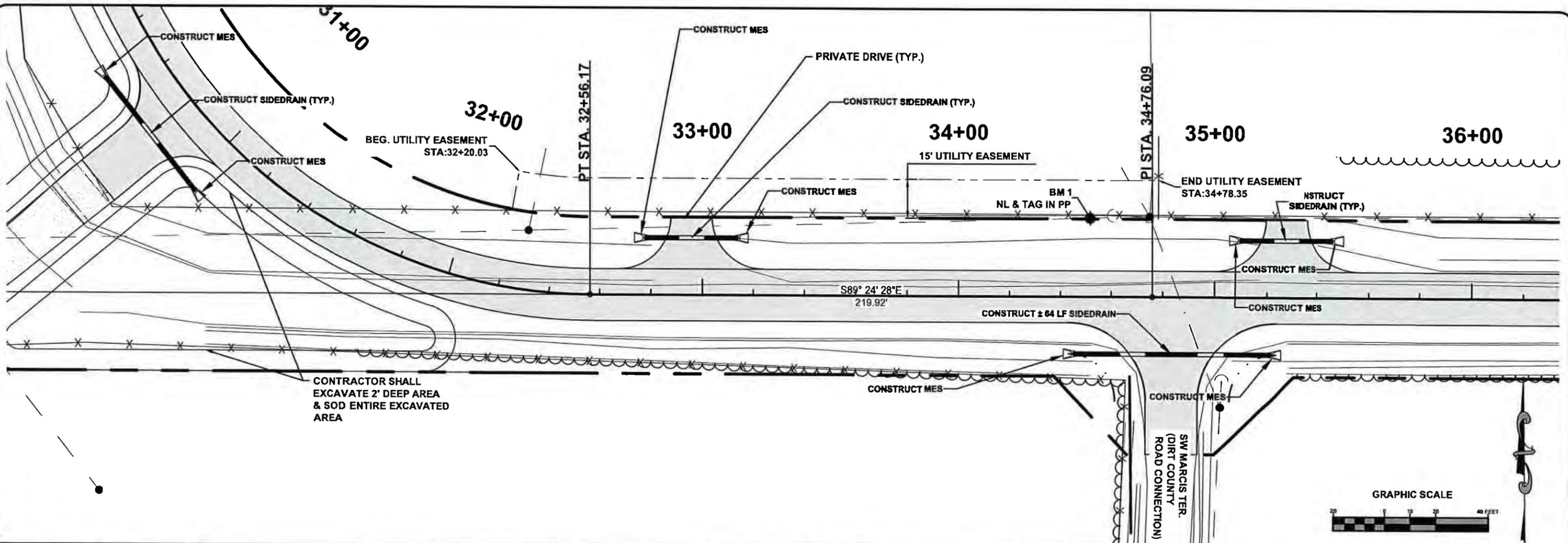
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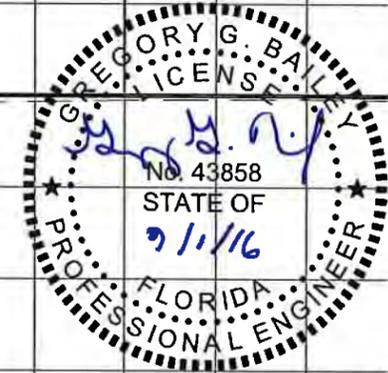
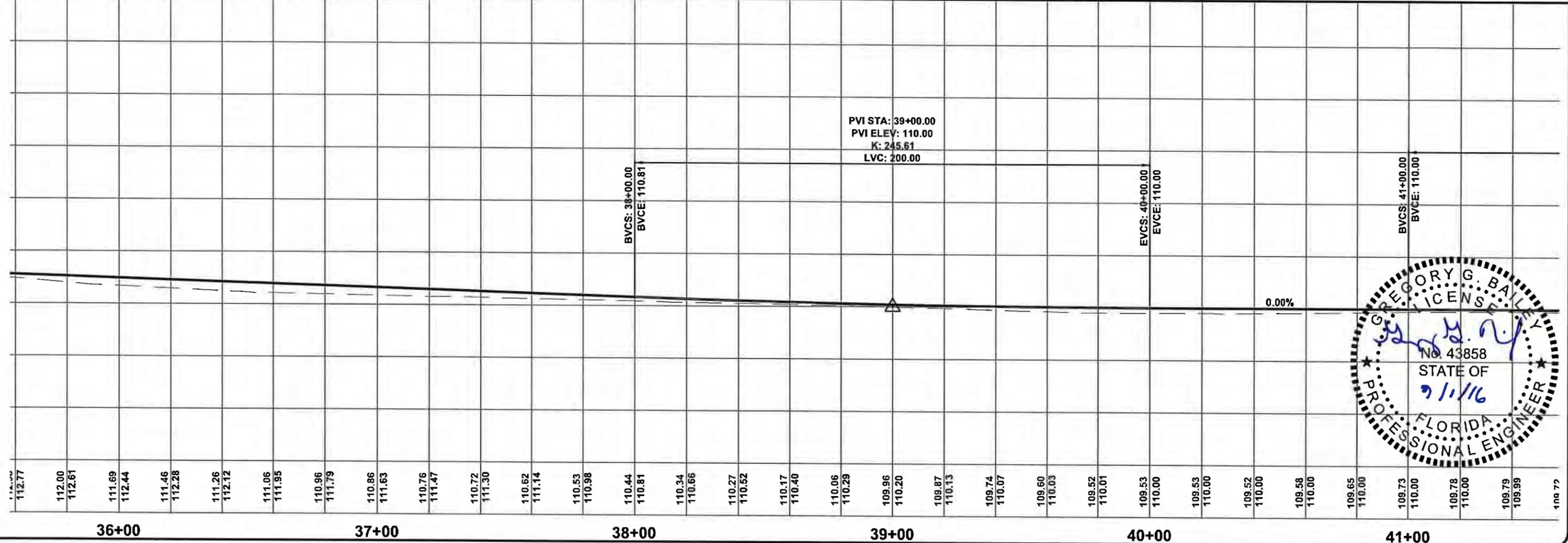
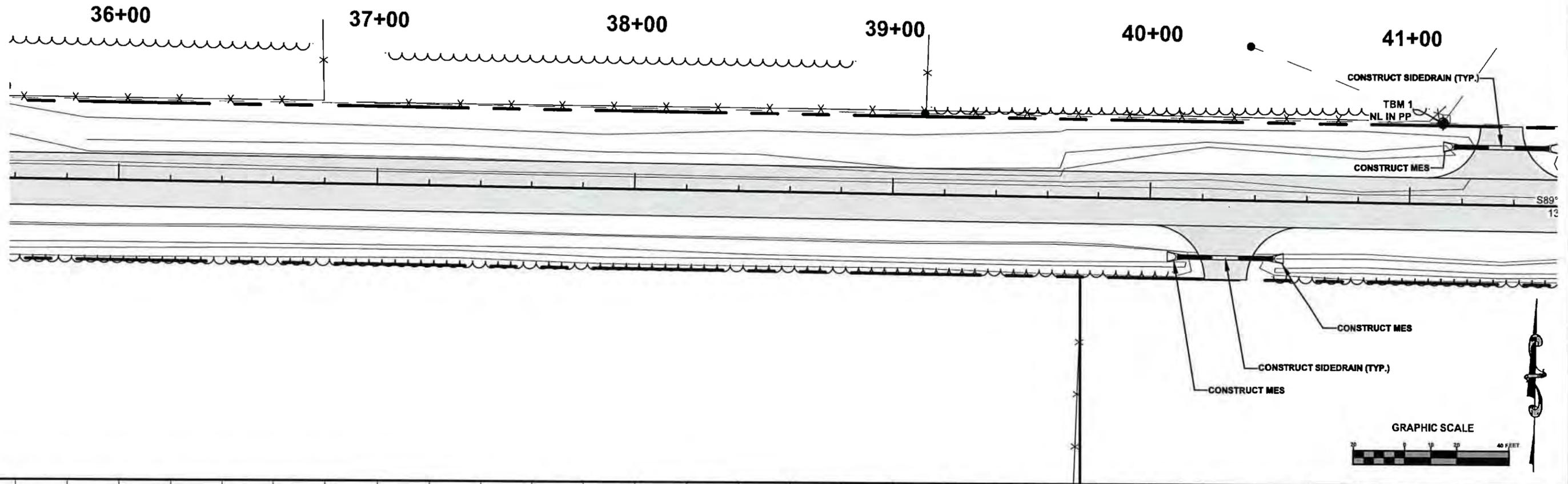


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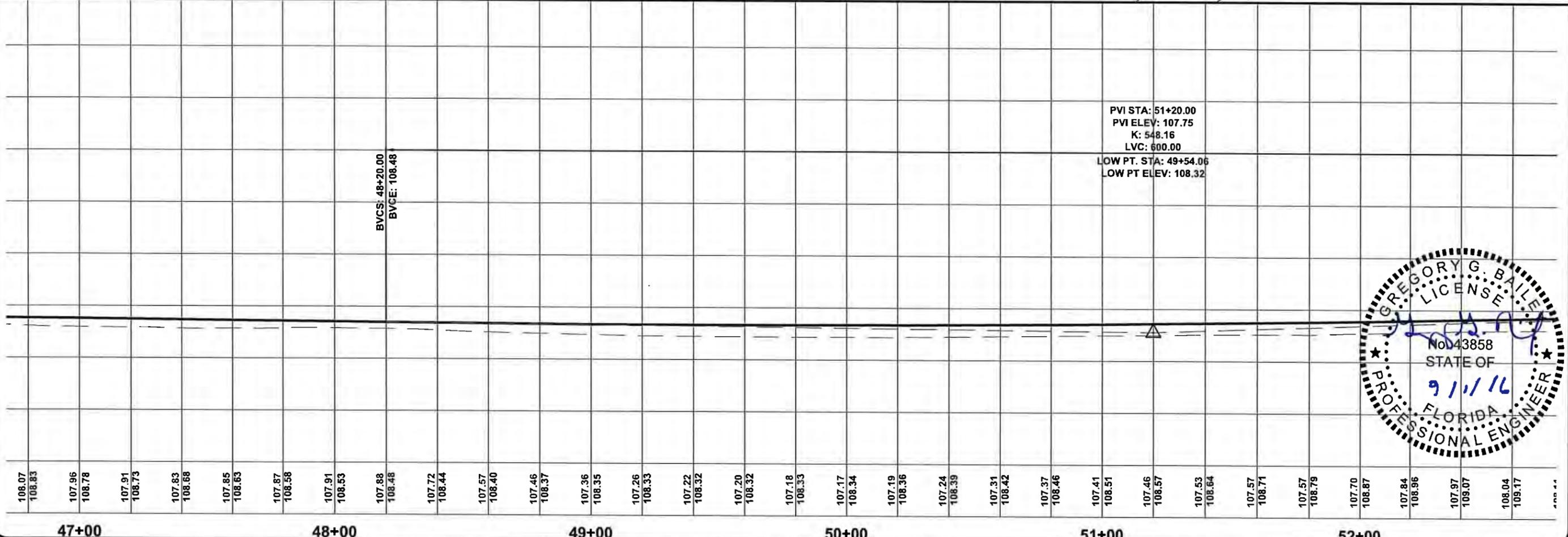
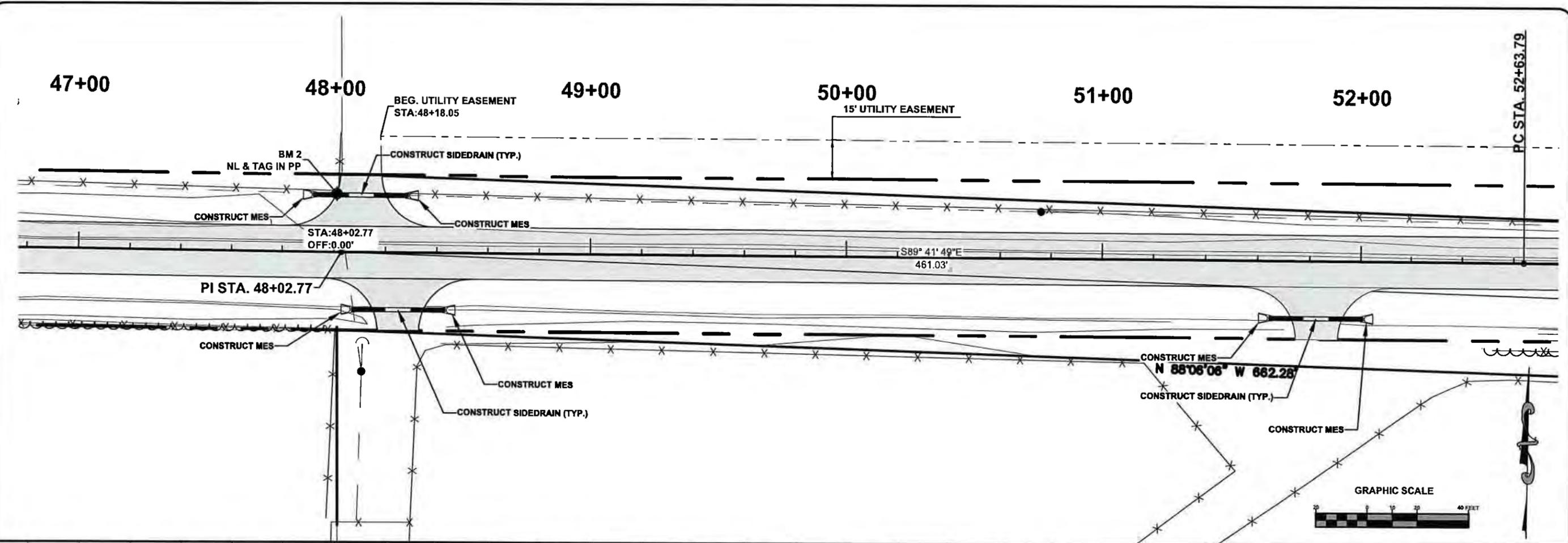
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PVI STA: 51+20.00  
 PVI ELEV: 107.75  
 K: 548.16  
 LVC: 600.00  
 LOW PT. STA: 49+54.06  
 LOW PT ELEV: 108.32



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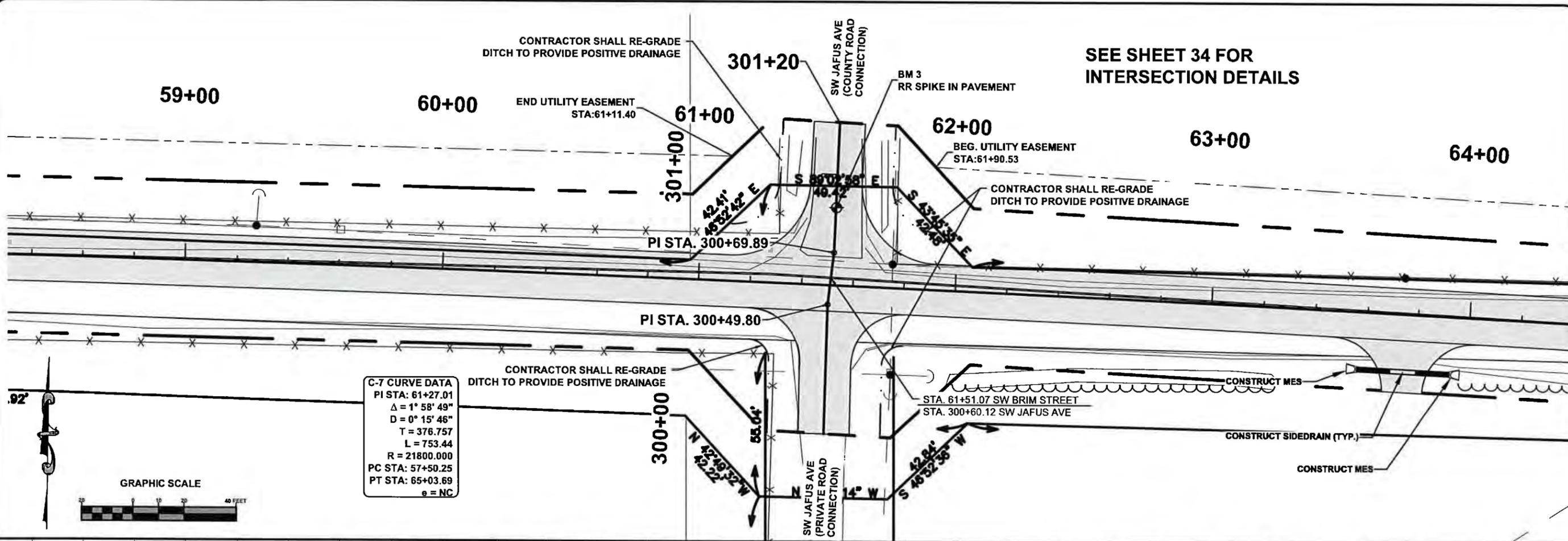
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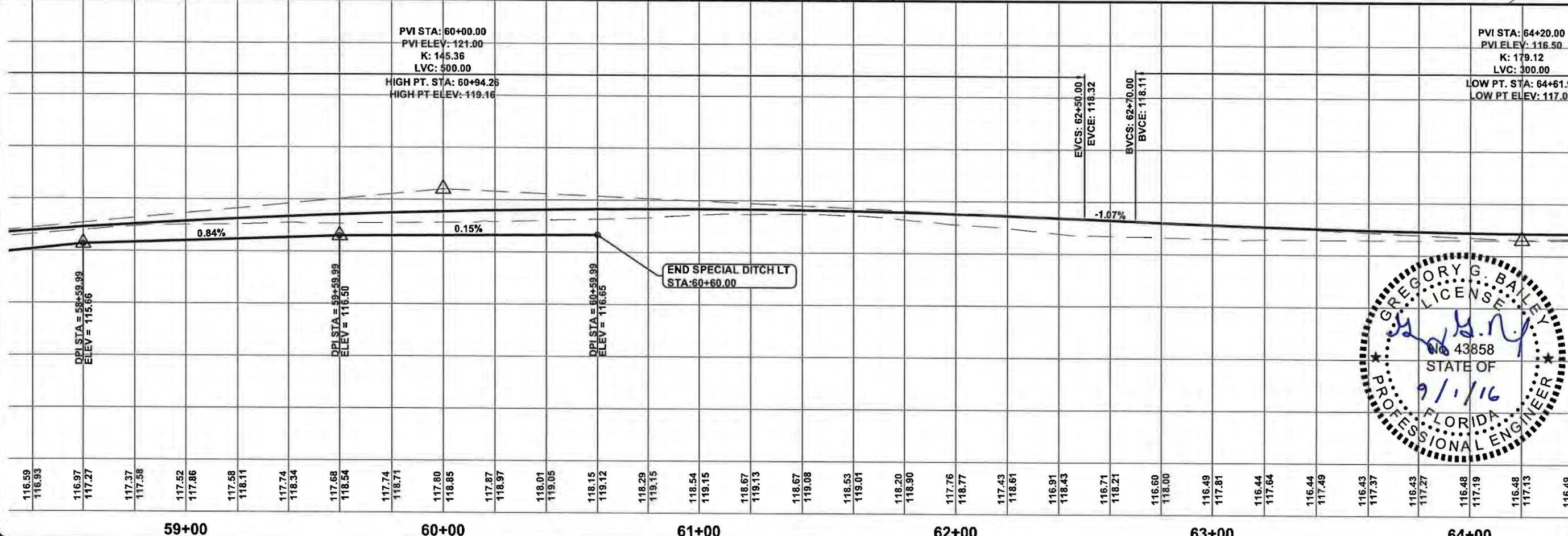
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CHECKED BY:				
SIGNATURE & SEAL:				

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 SHEET NO. 11





**C-7 CURVE DATA**  
 PI STA: 61+27.01  
 $\Delta = 1^\circ 58' 49''$   
 $D = 0^\circ 15' 46''$   
 $T = 376.757$   
 $L = 753.44$   
 $R = 21800.000$   
 PC STA: 57+50.25  
 PT STA: 65+03.69  
 $e = NC$



**GREGORY G. BAILEY**  
**LICENSE # 43858**  
**STATE OF FLORIDA**  
**PROFESSIONAL ENGINEER**  
 9/1/16

**SEE SHEET 34 FOR INTERSECTION DETAILS**

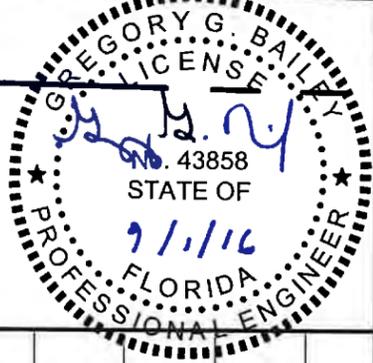
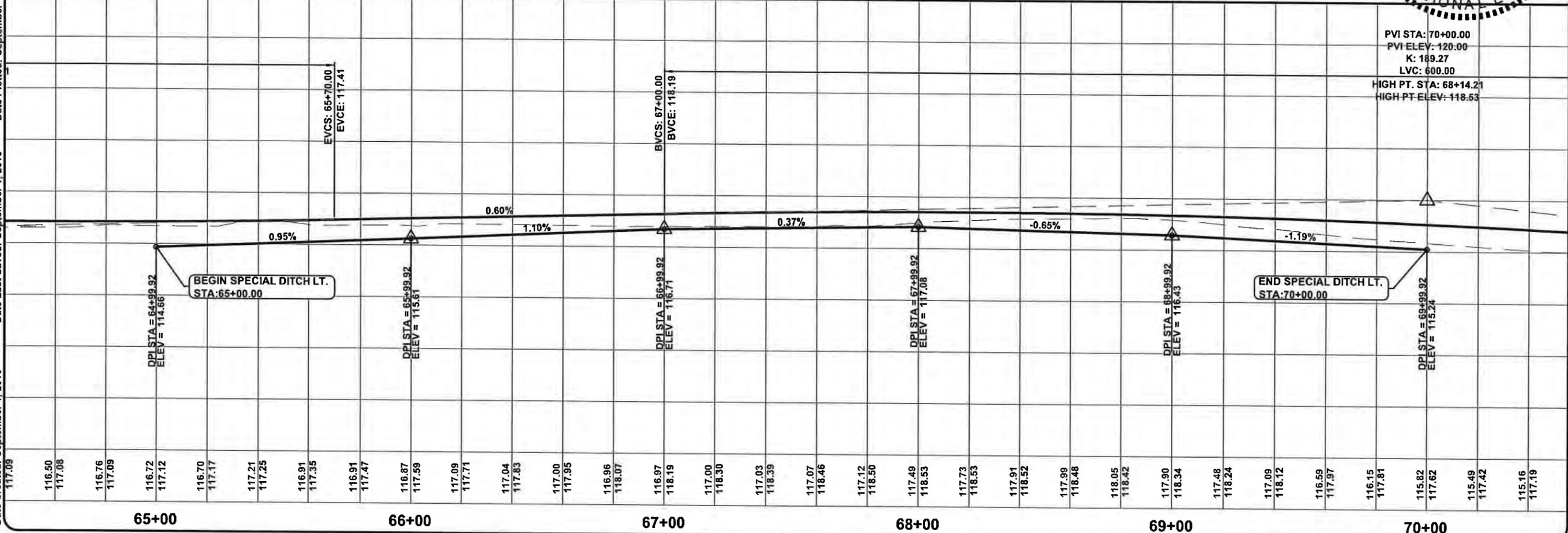
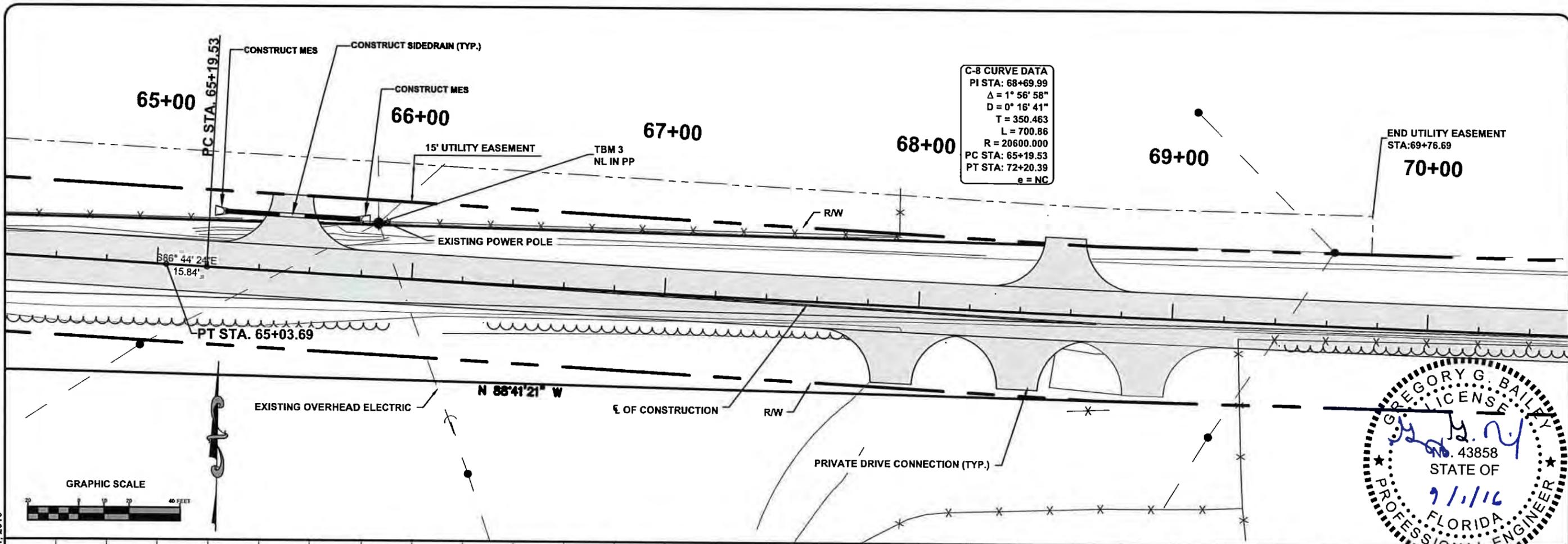
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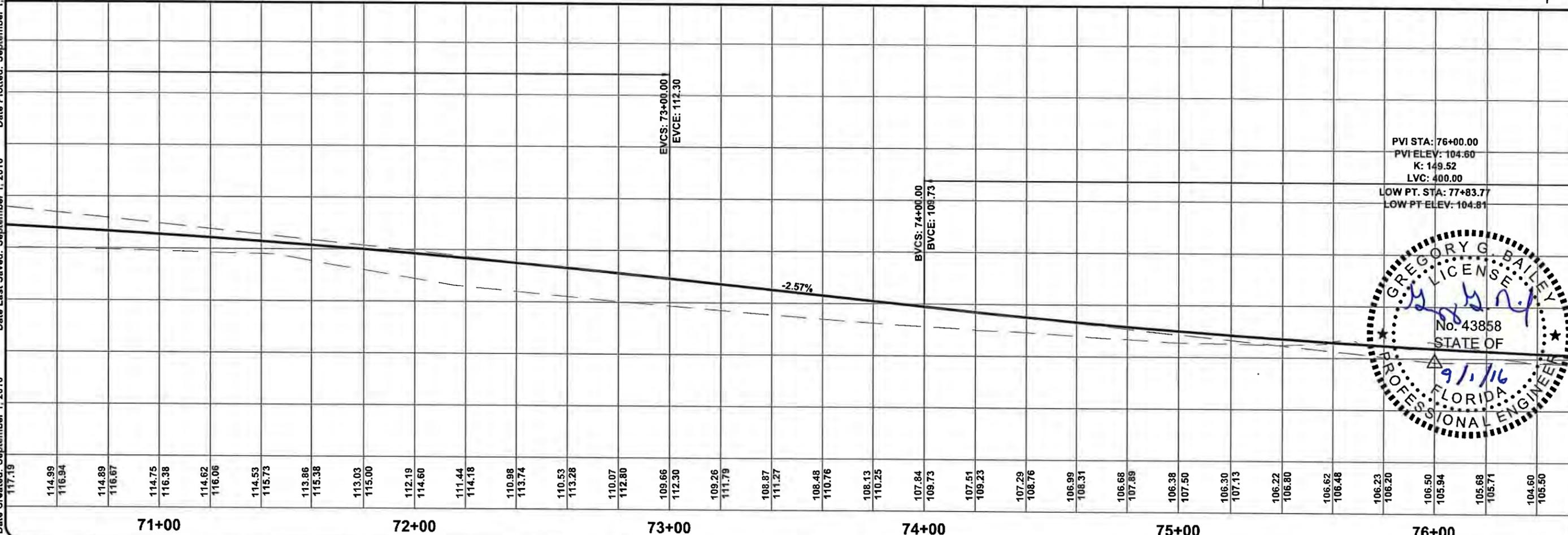
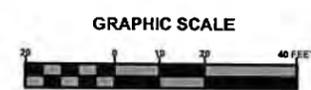
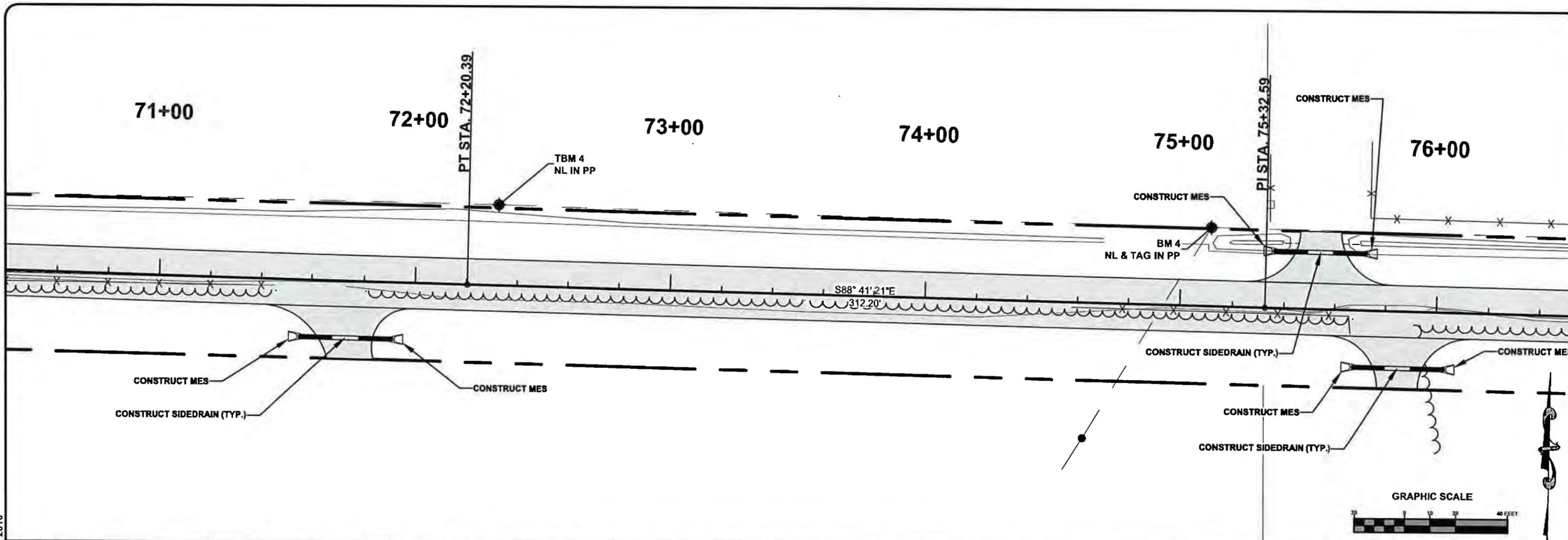


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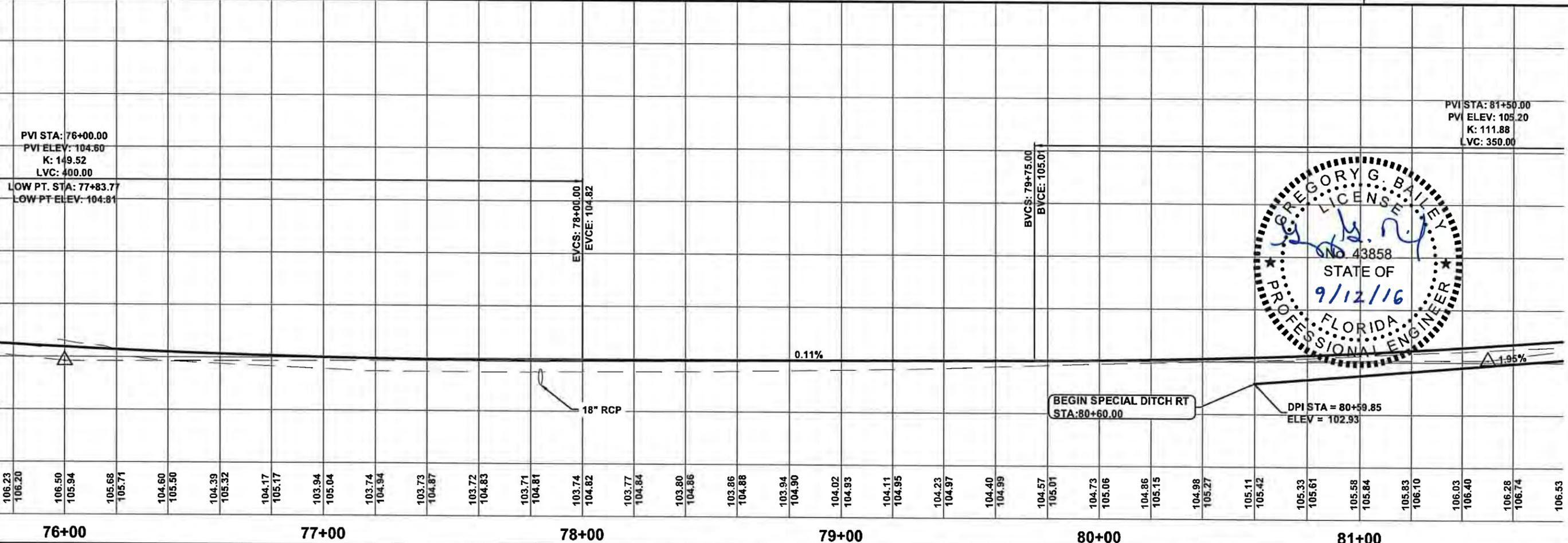
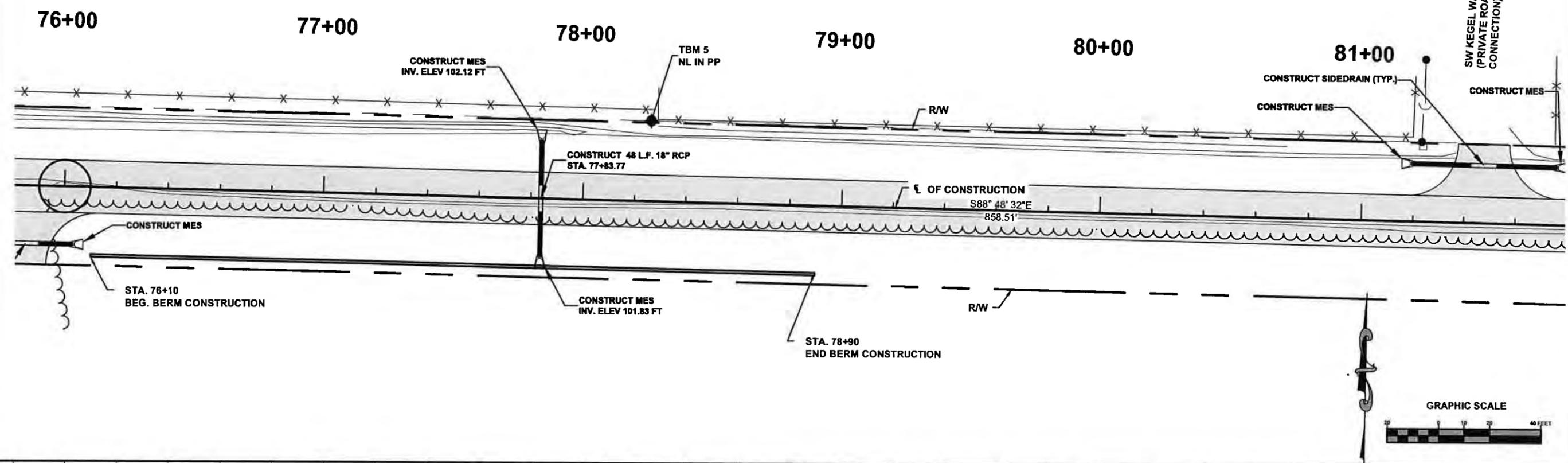
GREGORY G. BAILLEY  
 LICENSED PROFESSIONAL ENGINEER  
 No. 43858  
 STATE OF FLORIDA  
 9/1/16

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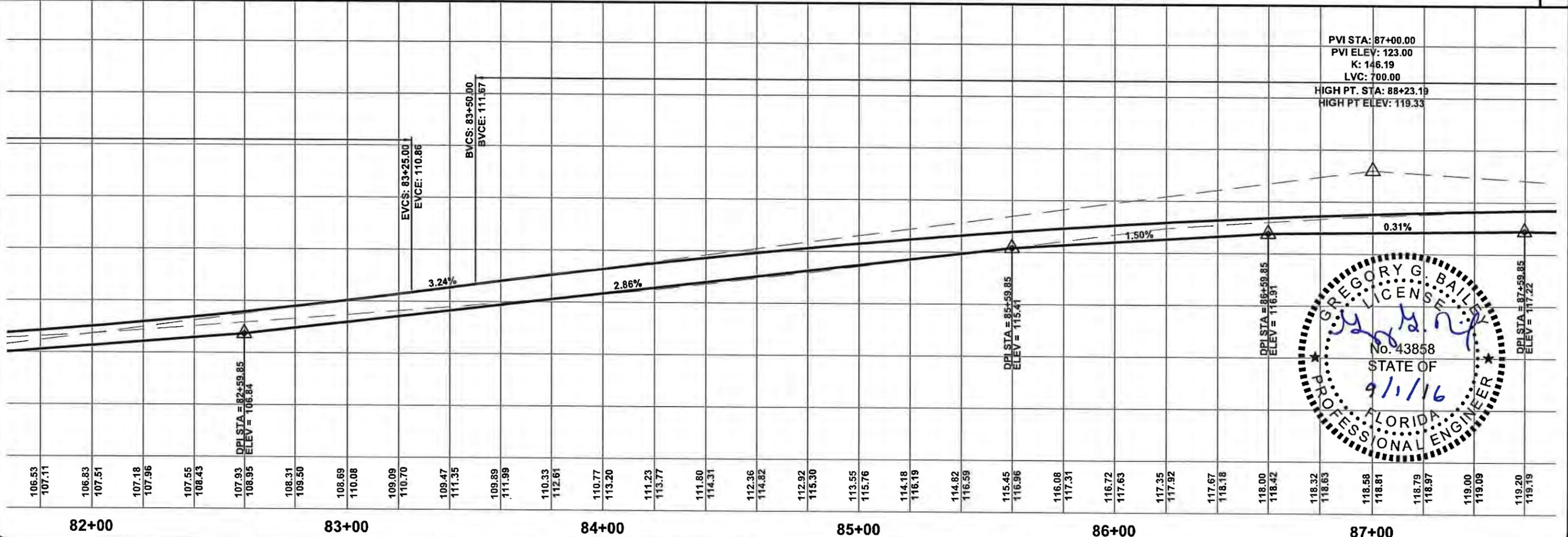
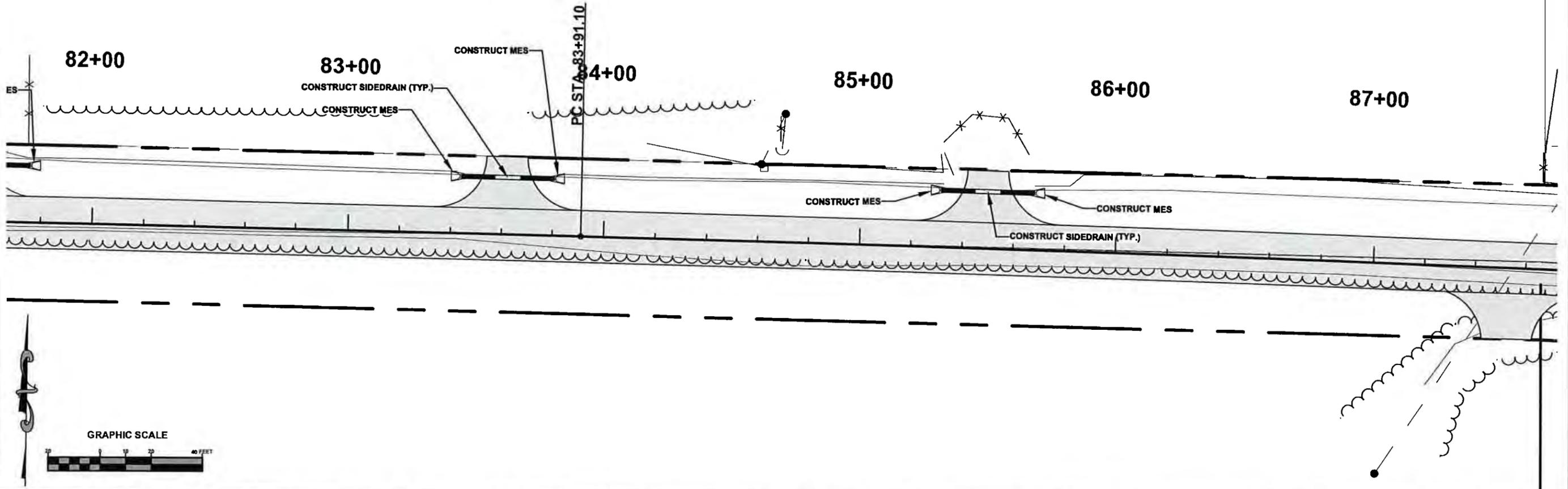
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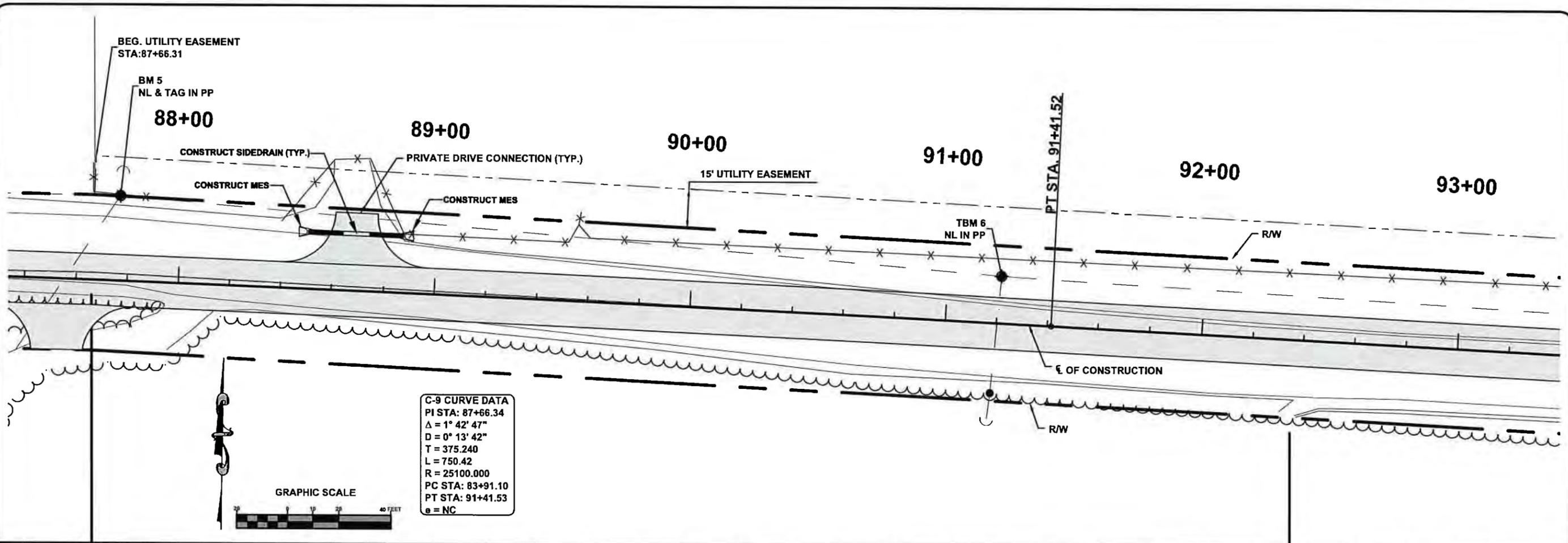
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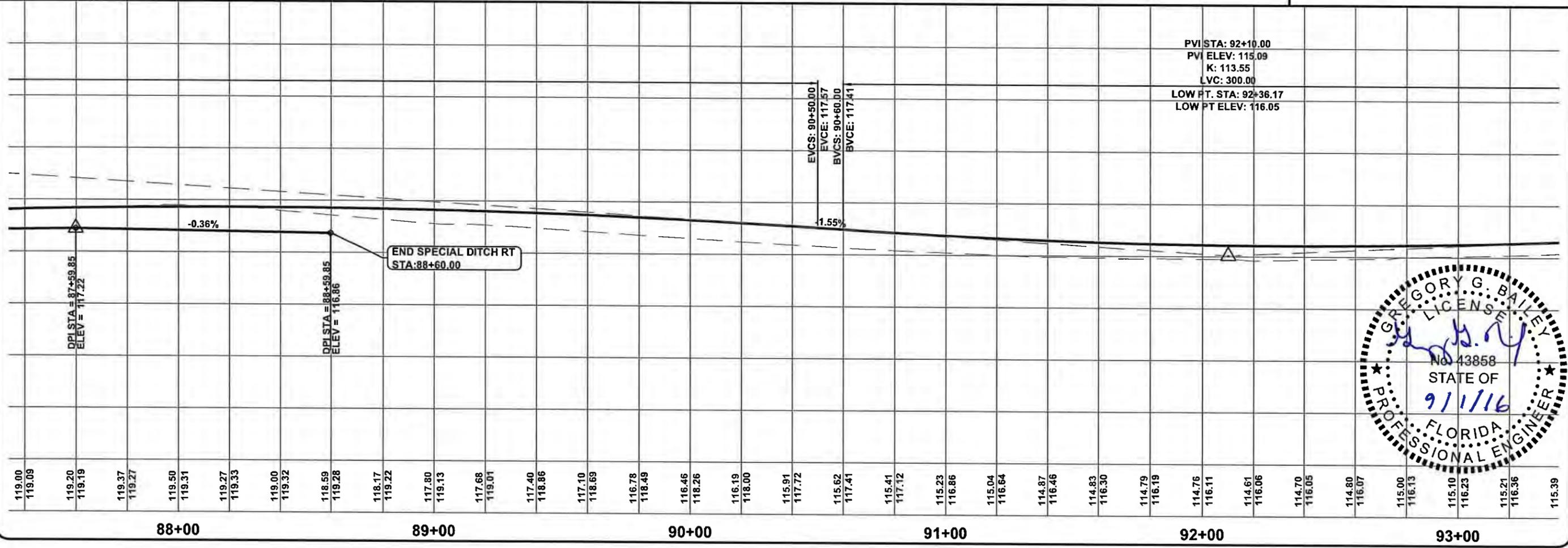
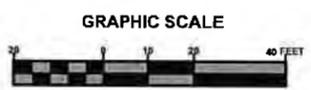
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**G-9 CURVE DATA**  
 PI STA: 87+66.34  
 $\Delta = 1^\circ 42' 47''$   
 $D = 0^\circ 13' 42''$   
 $T = 375.240$   
 $L = 750.42$   
 $R = 25100.000$   
 PC STA: 83+91.10  
 PT STA: 91+41.53  
 $g = NC$



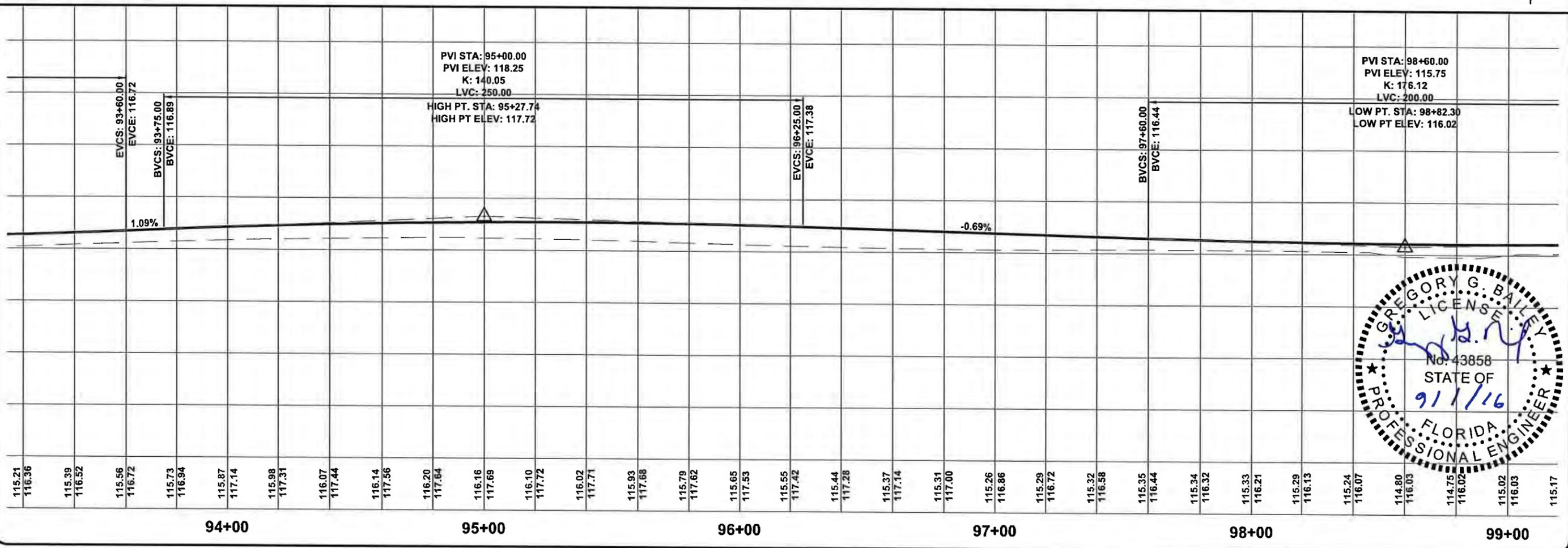
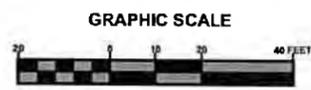
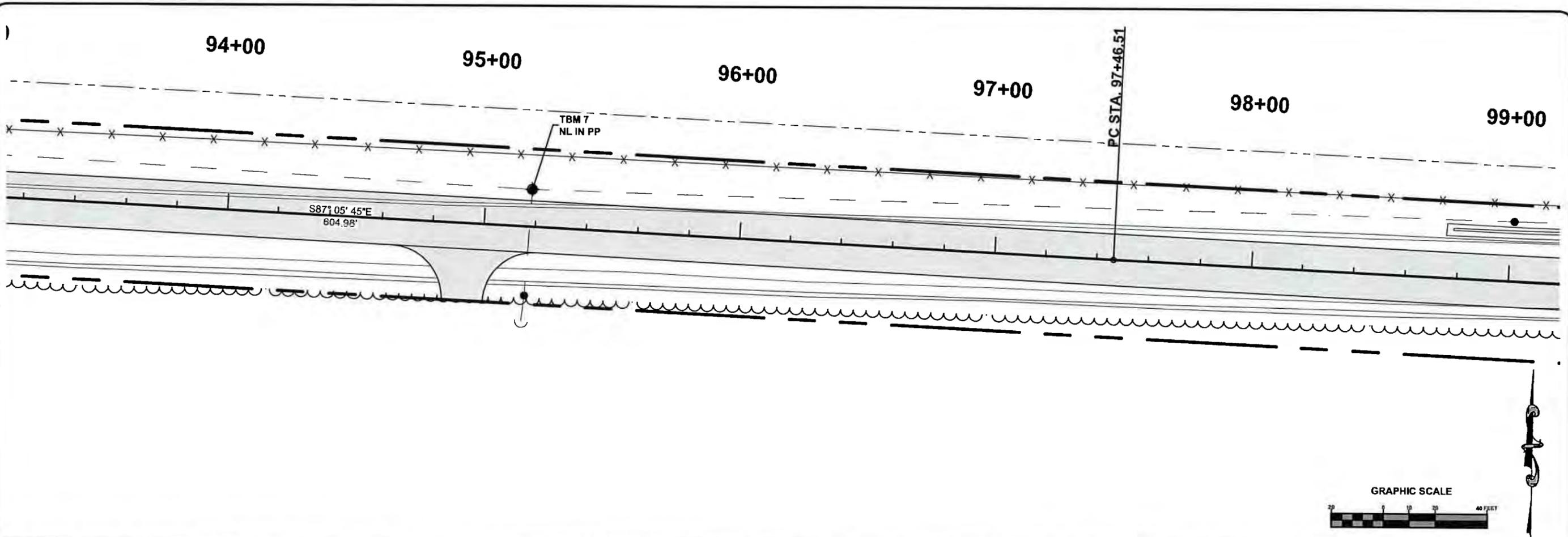
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EVCS: 93+60.00  
EVCE: 116.72

BVCS: 93+75.00  
BVCE: 116.89

1.09%

PVI STA: 95+00.00  
PVI ELEV: 118.25  
K: 140.05  
LVC: 250.00

HIGH PT. STA: 95+27.74  
HIGH PT ELEV: 117.72

EVCS: 96+25.00  
EVCE: 117.38

BVCS: 97+60.00  
BVCE: 116.44

-0.69%

PVI STA: 98+60.00  
PVI ELEV: 115.75  
K: 176.12  
LVC: 200.00

LOW PT. STA: 98+82.30  
LOW PT ELEV: 116.02



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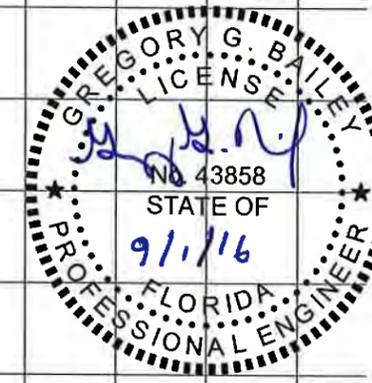
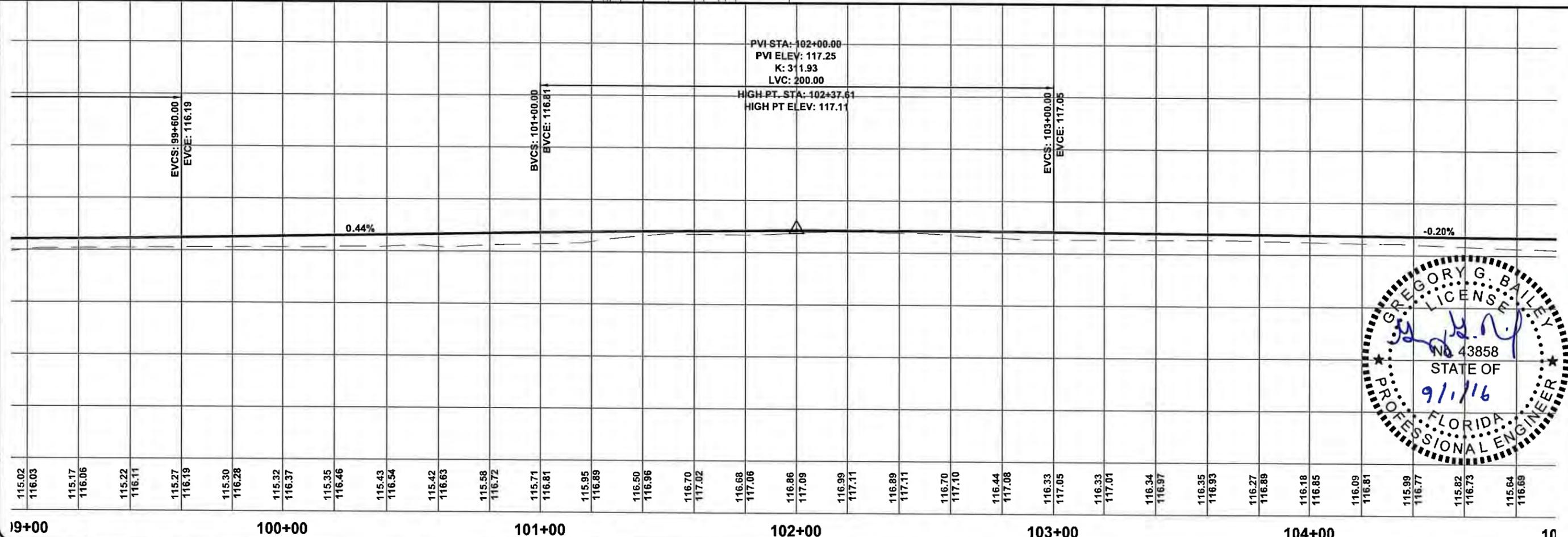
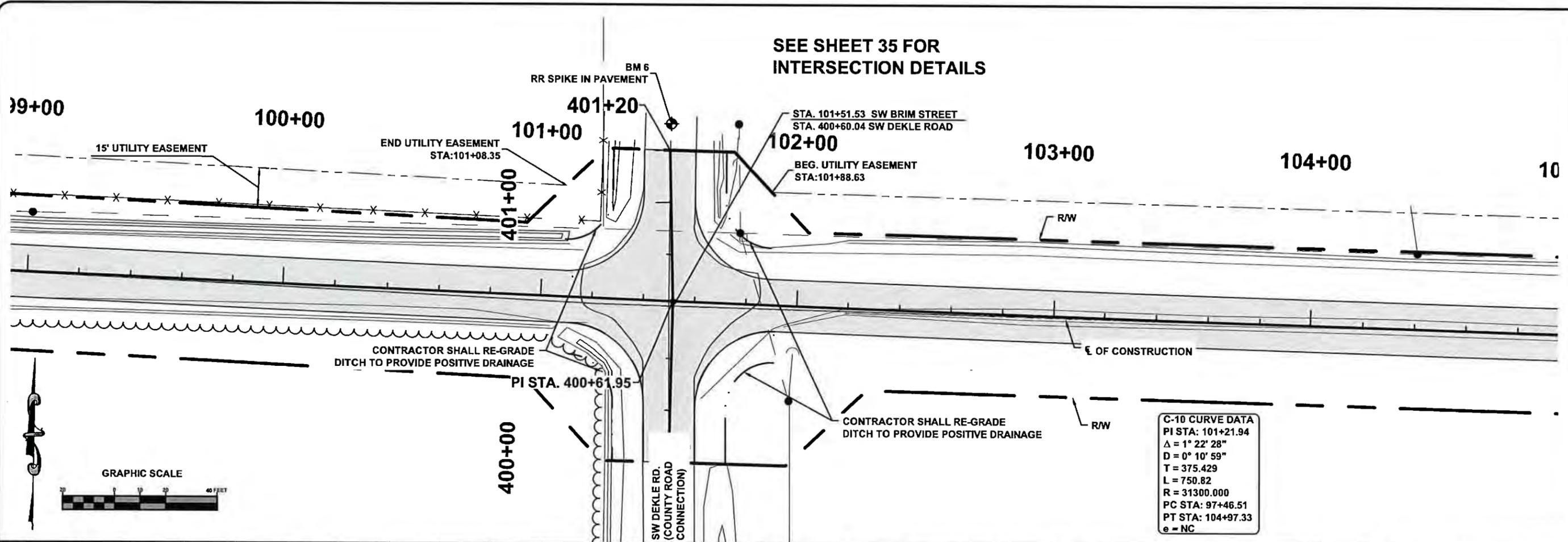
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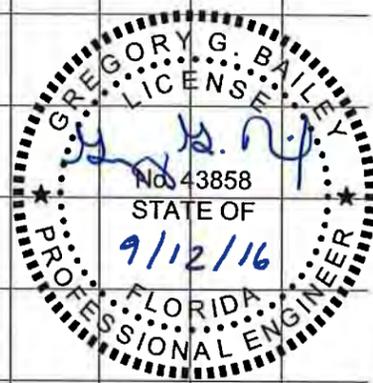
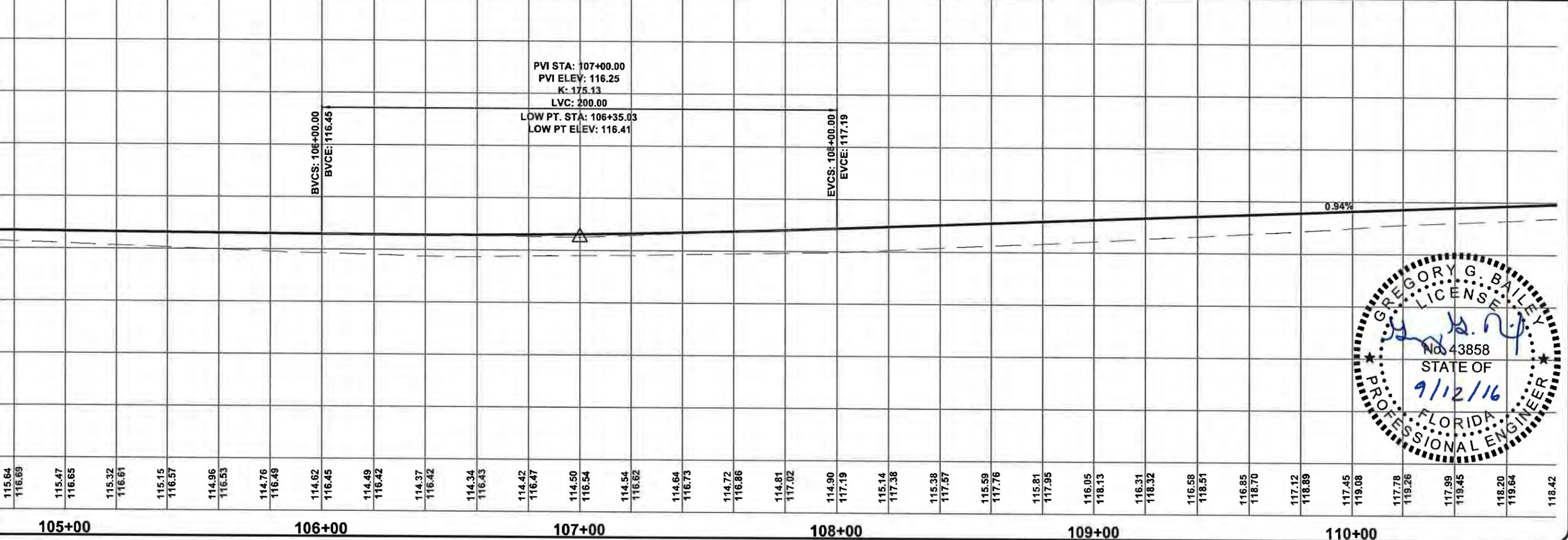
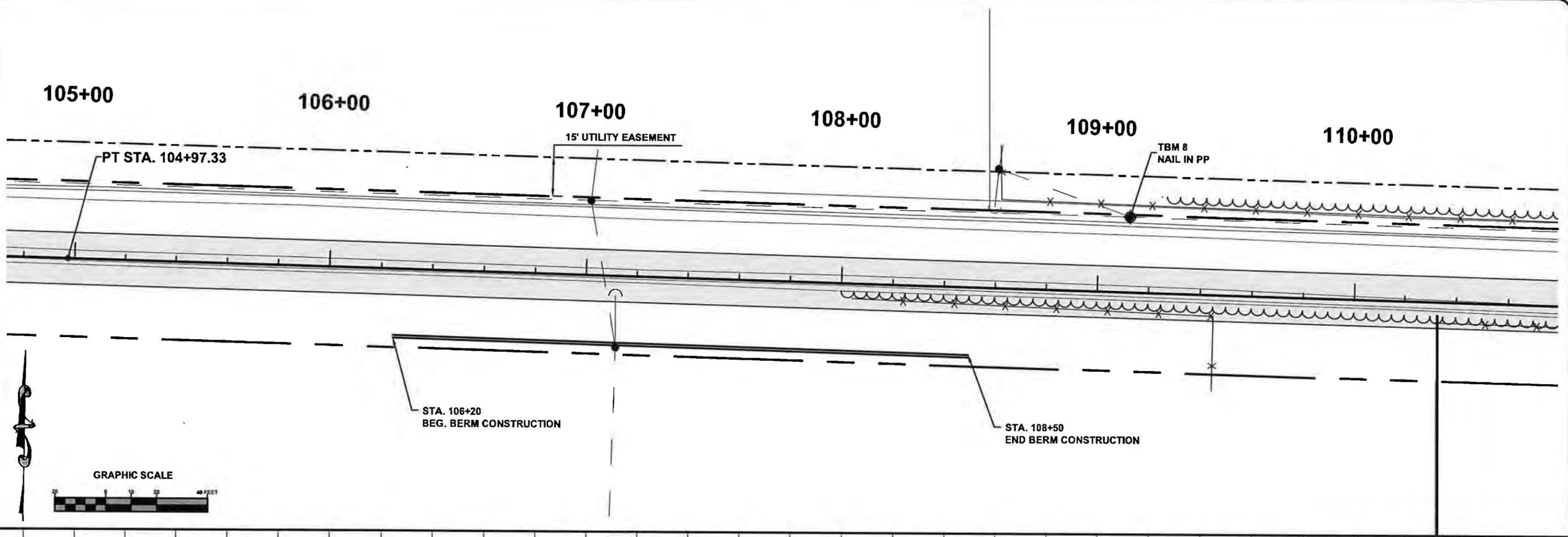
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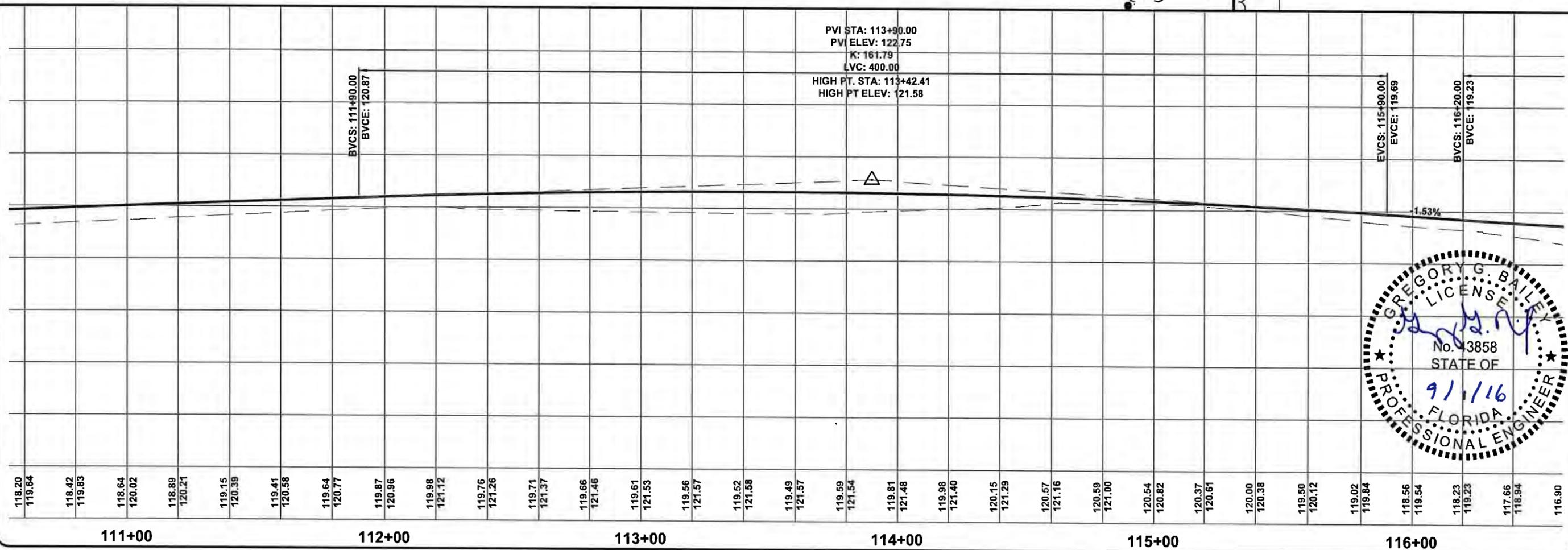
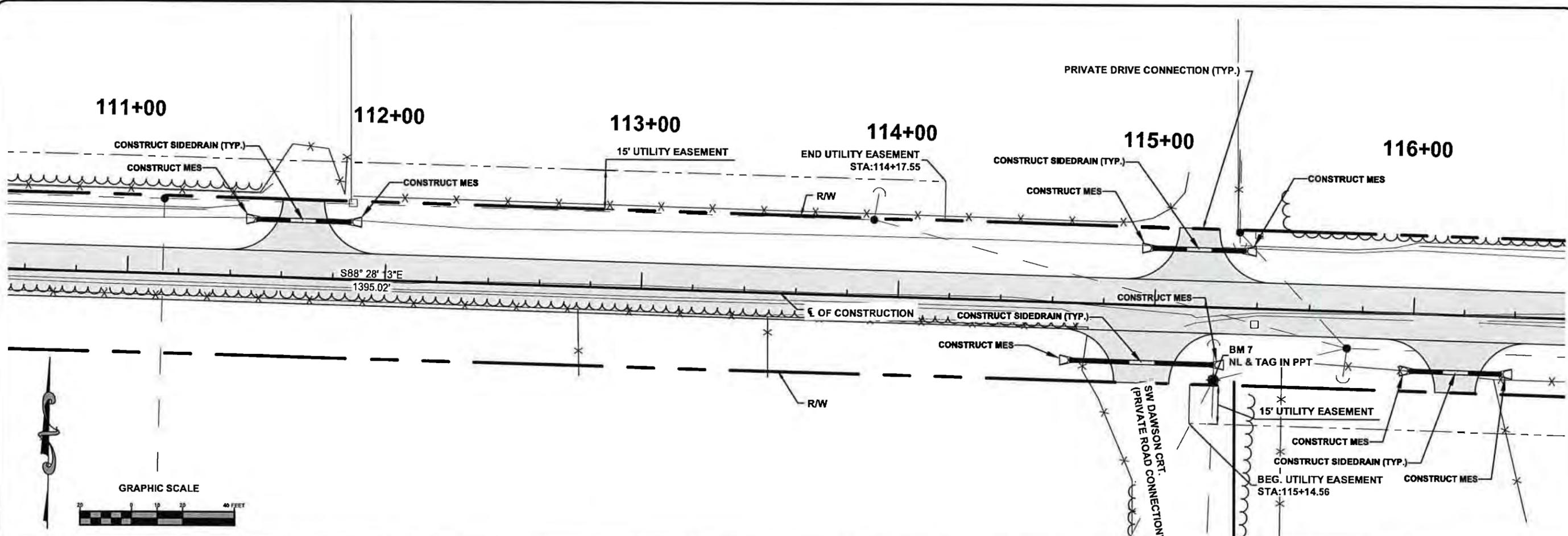


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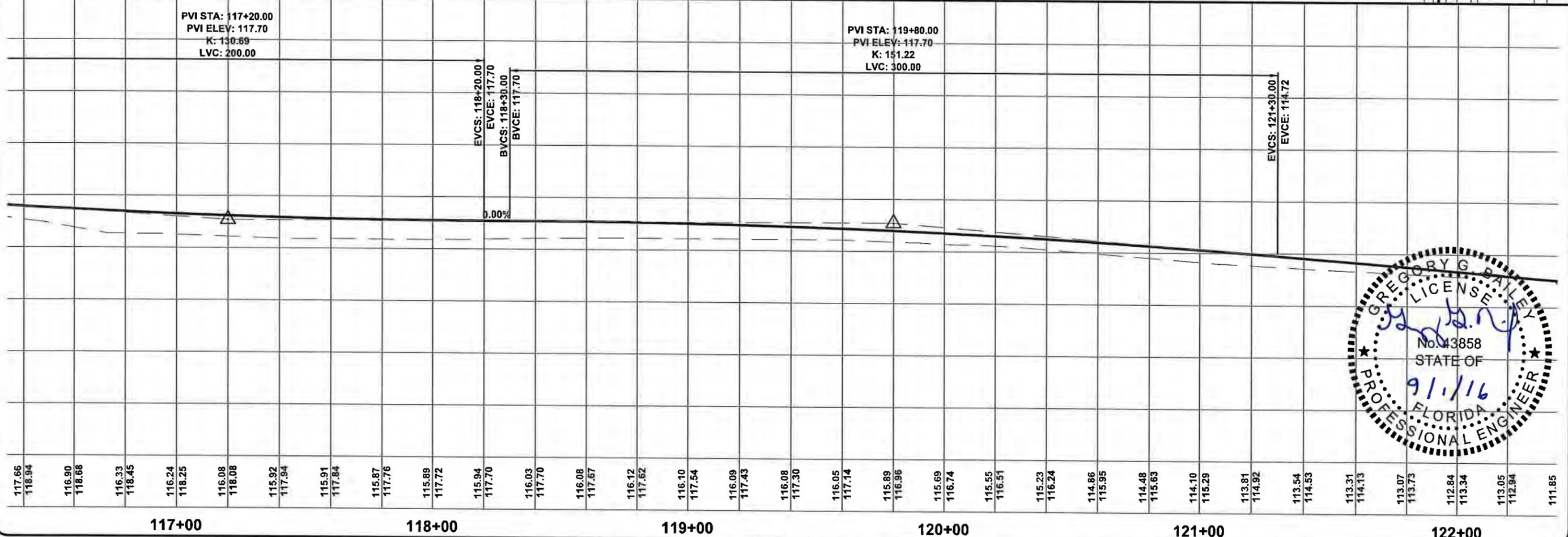
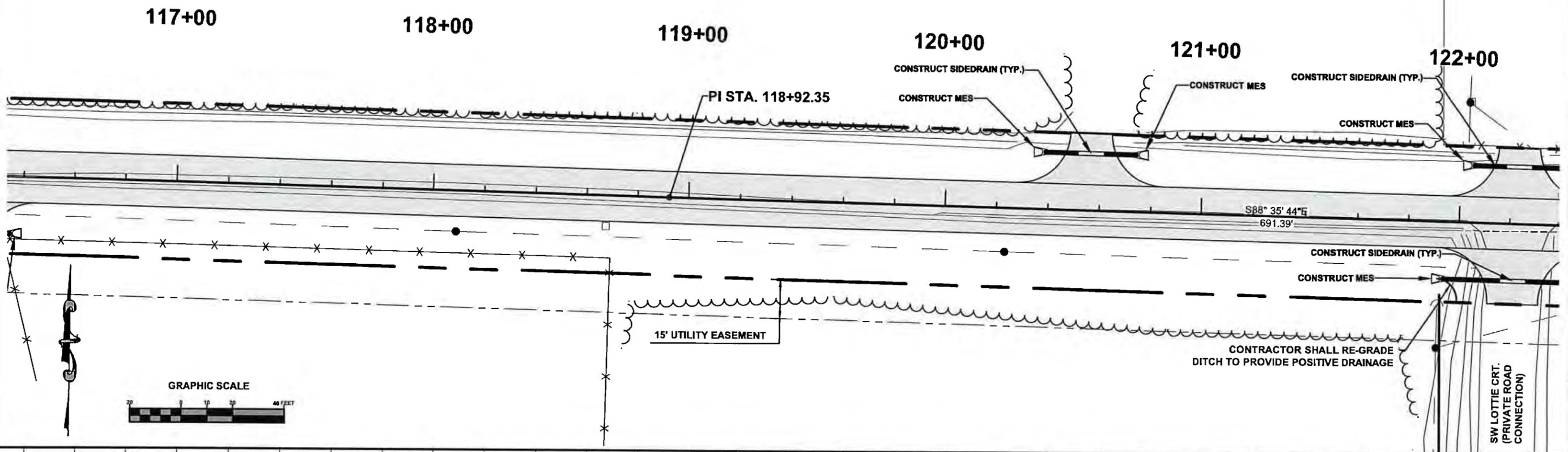
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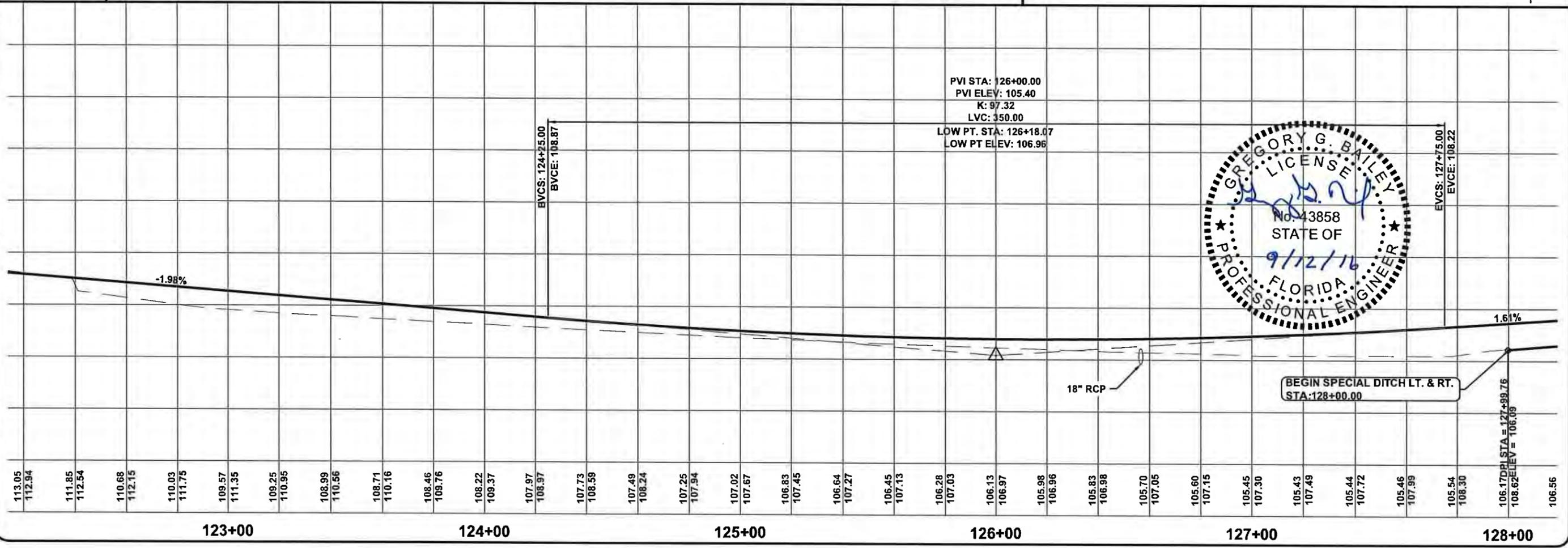
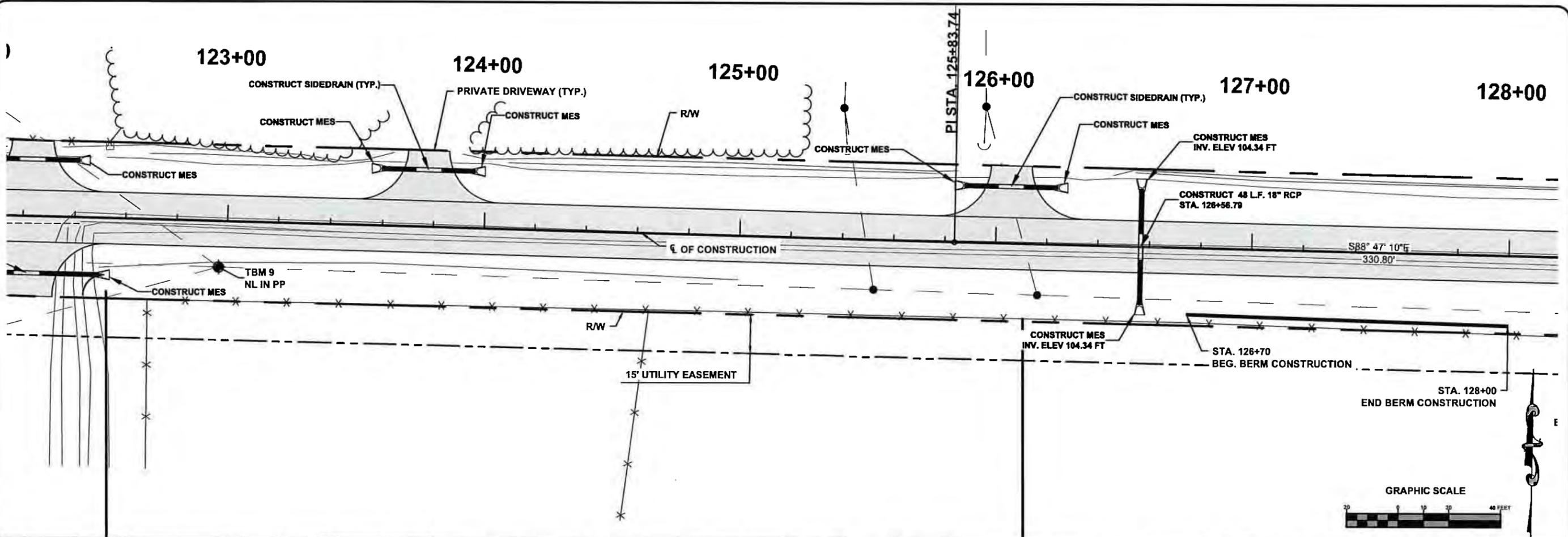
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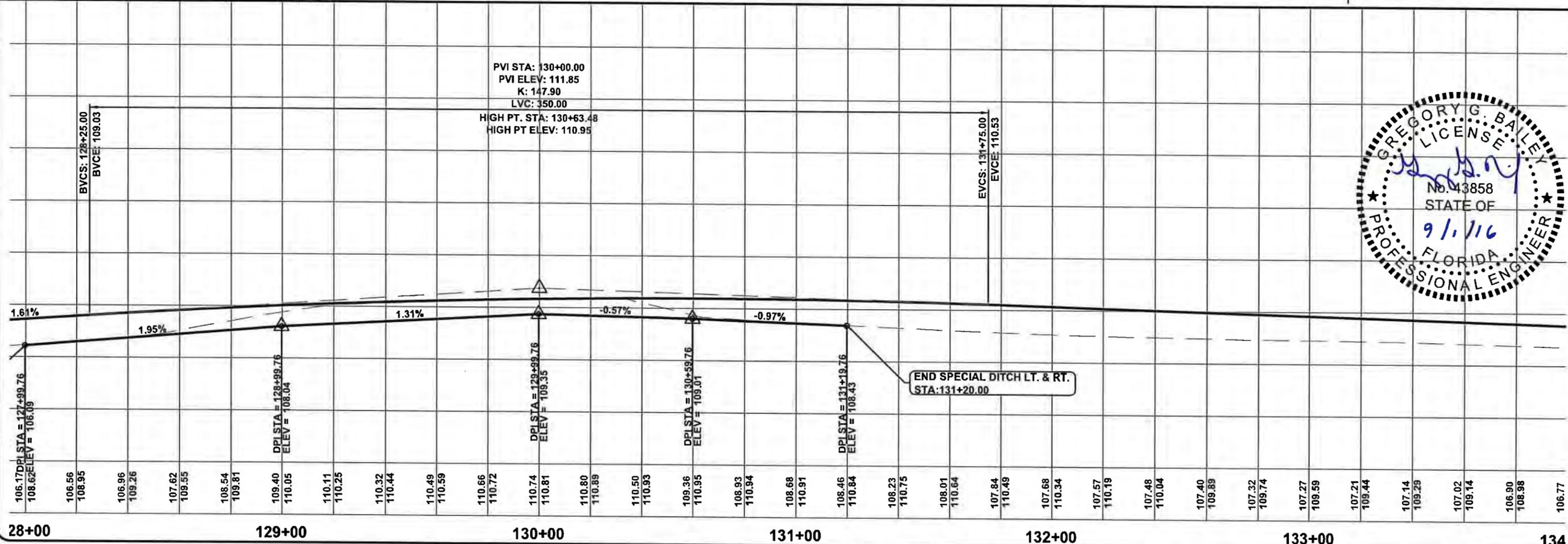
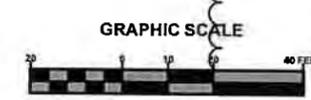
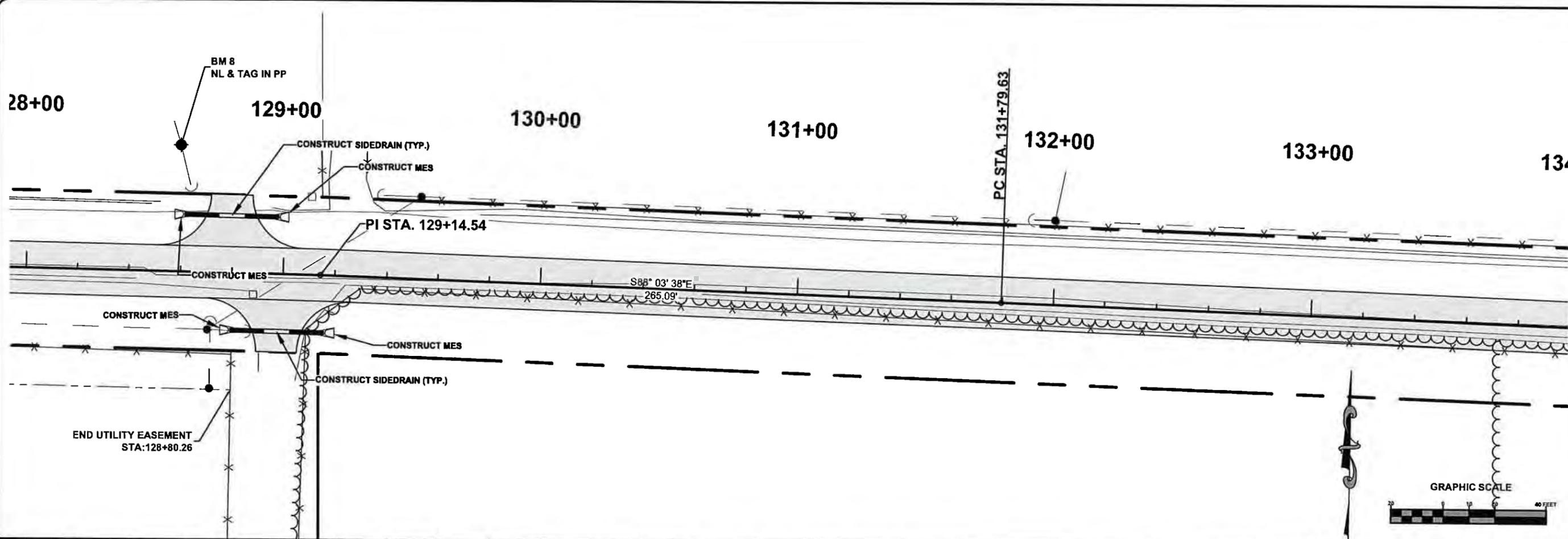


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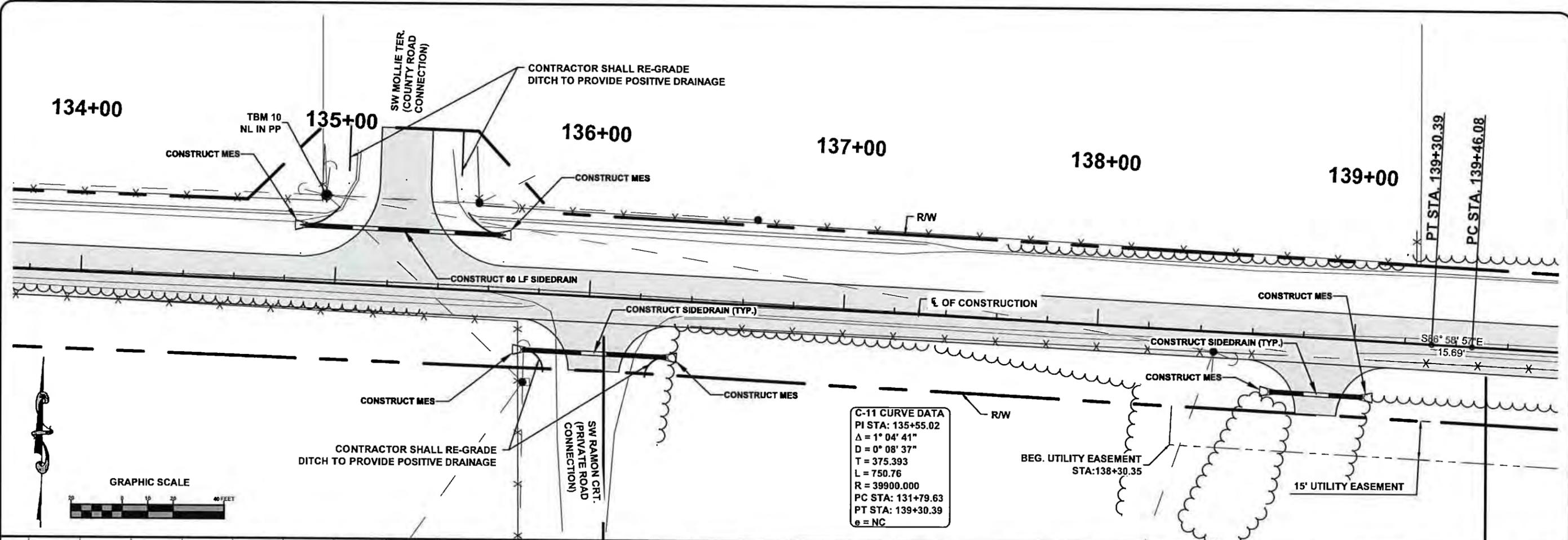


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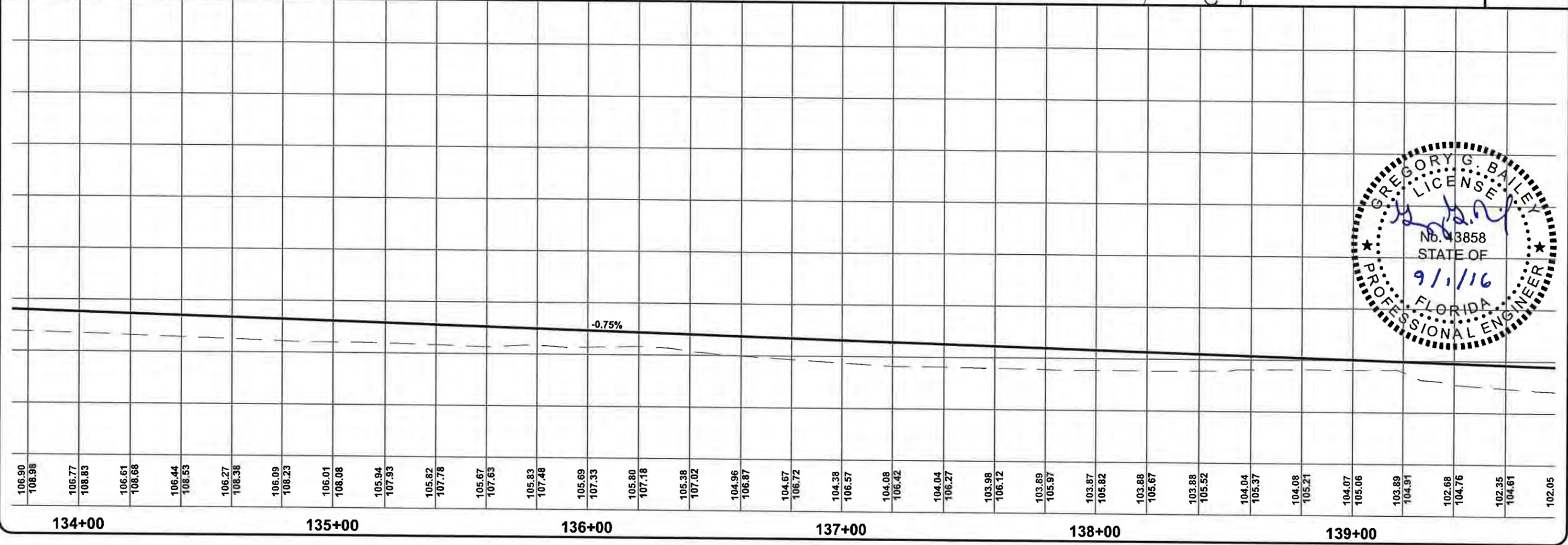
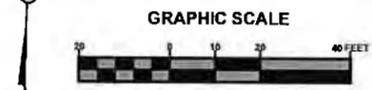
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C-11 CURVE DATA  
 PI STA: 135+55.02  
 $\Delta = 1^\circ 04' 41''$   
 $D = 0^\circ 08' 37''$   
 $T = 375.393$   
 $L = 750.76$   
 $R = 39900.000$   
 PC STA: 131+79.63  
 PT STA: 139+30.39  
 $e = NC$

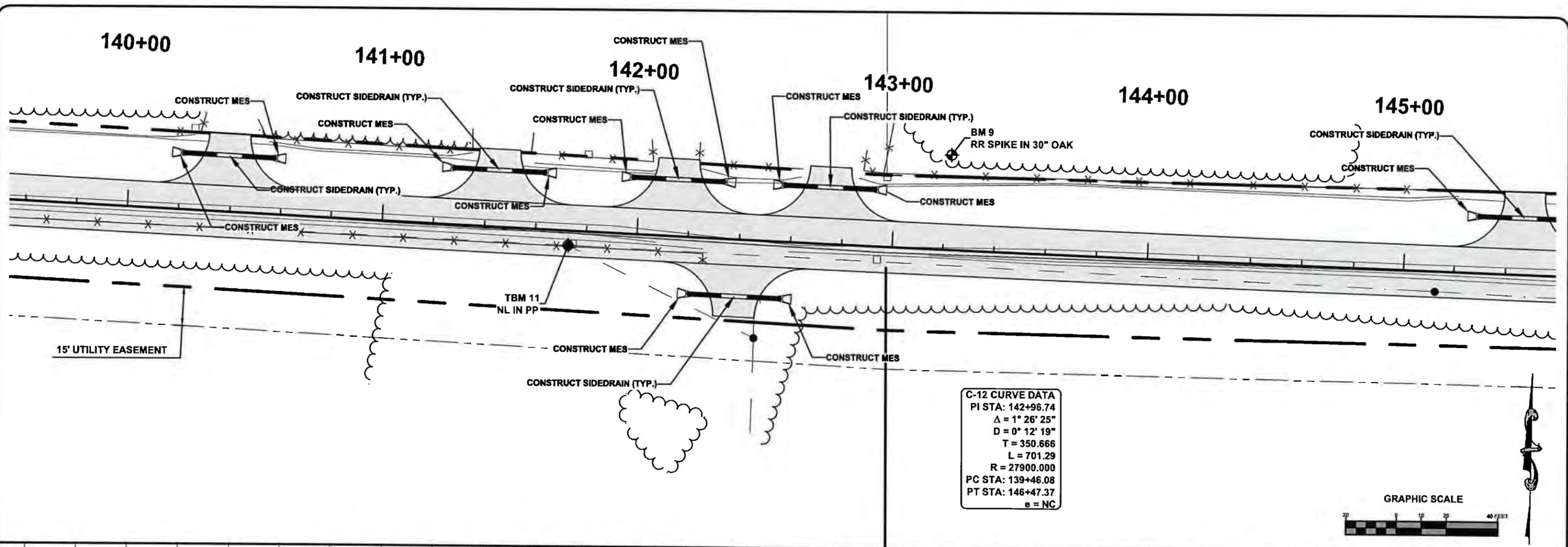


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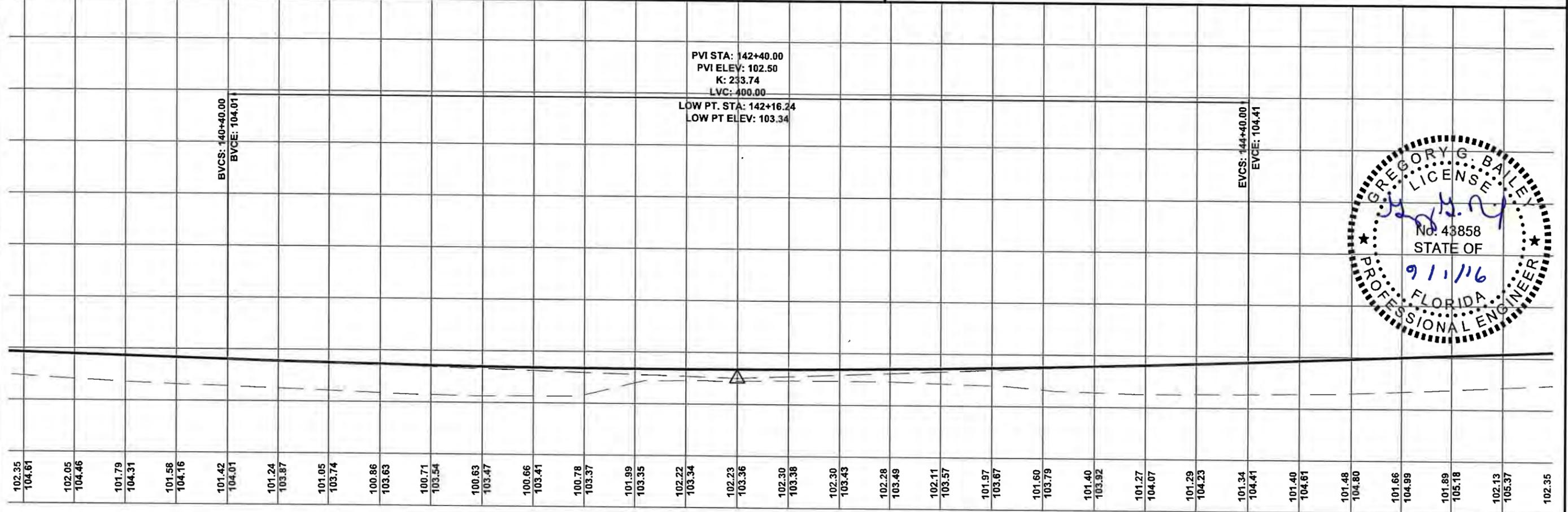
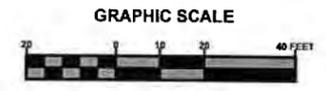
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**C-12 CURVE DATA**  
 PI STA: 142+96.74  
 $\Delta = 1^\circ 26' 25''$   
 $D = 0^\circ 12' 19''$   
 $T = 350.666$   
 $L = 701.29$   
 $R = 27900.000$   
 PC STA: 139+46.08  
 PT STA: 146+47.37  
 $e = NC$



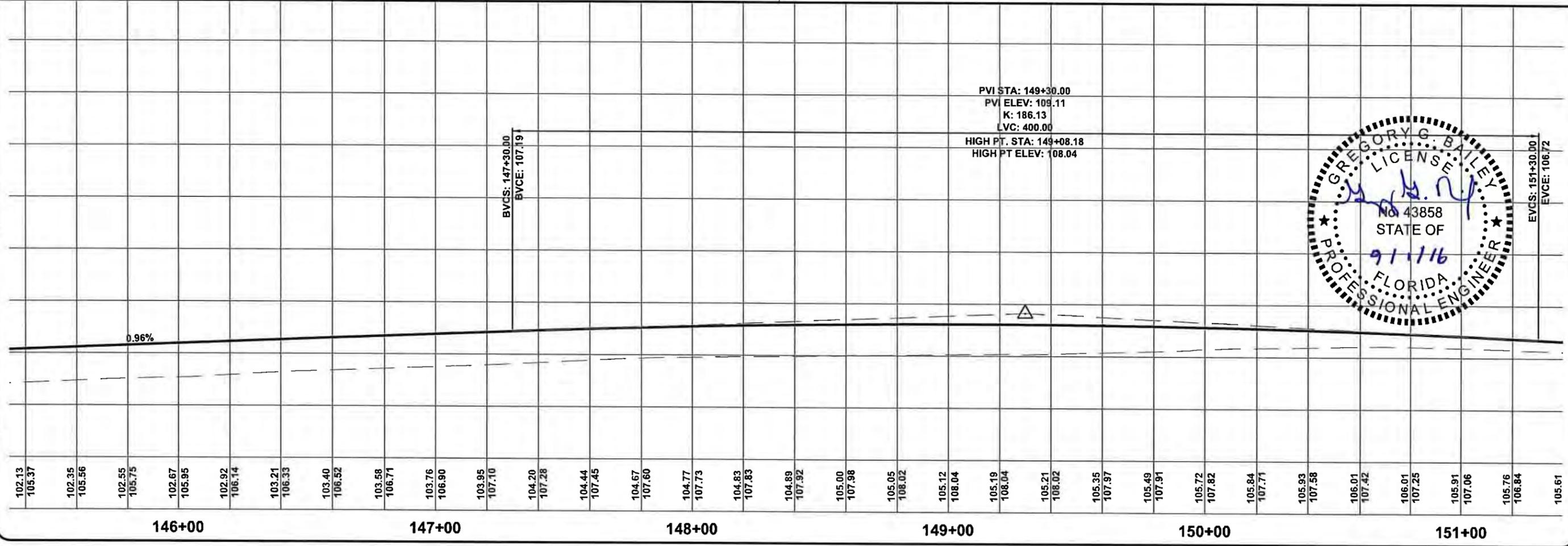
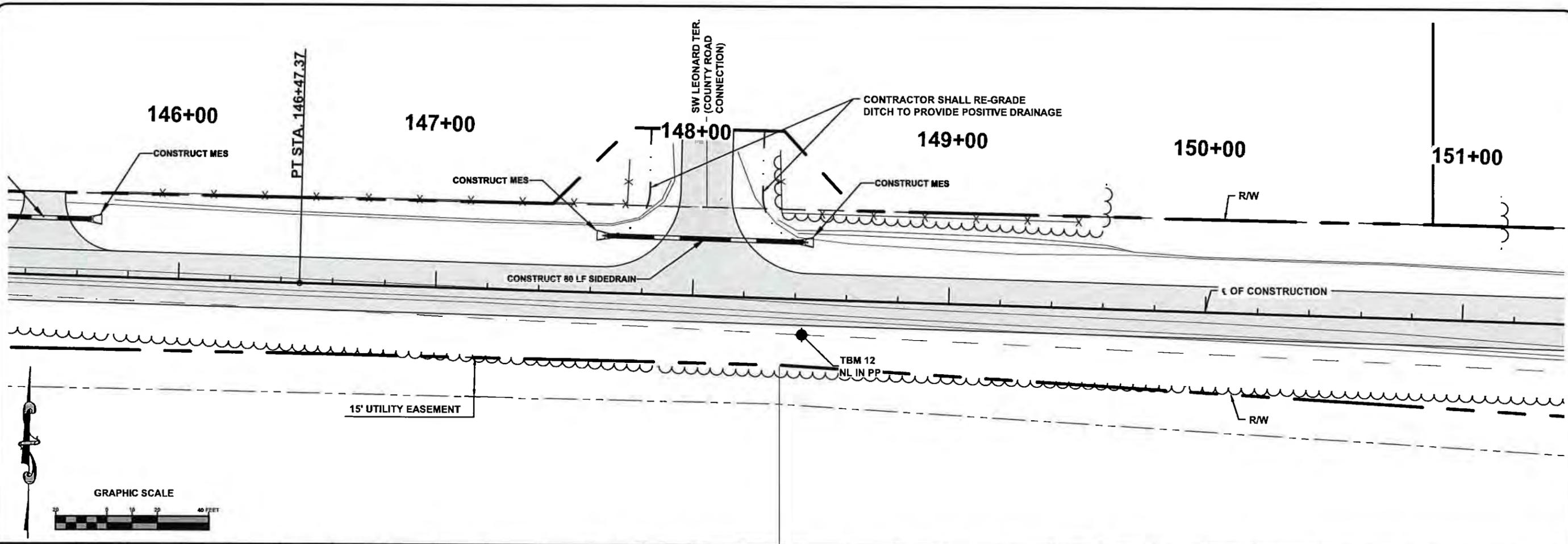
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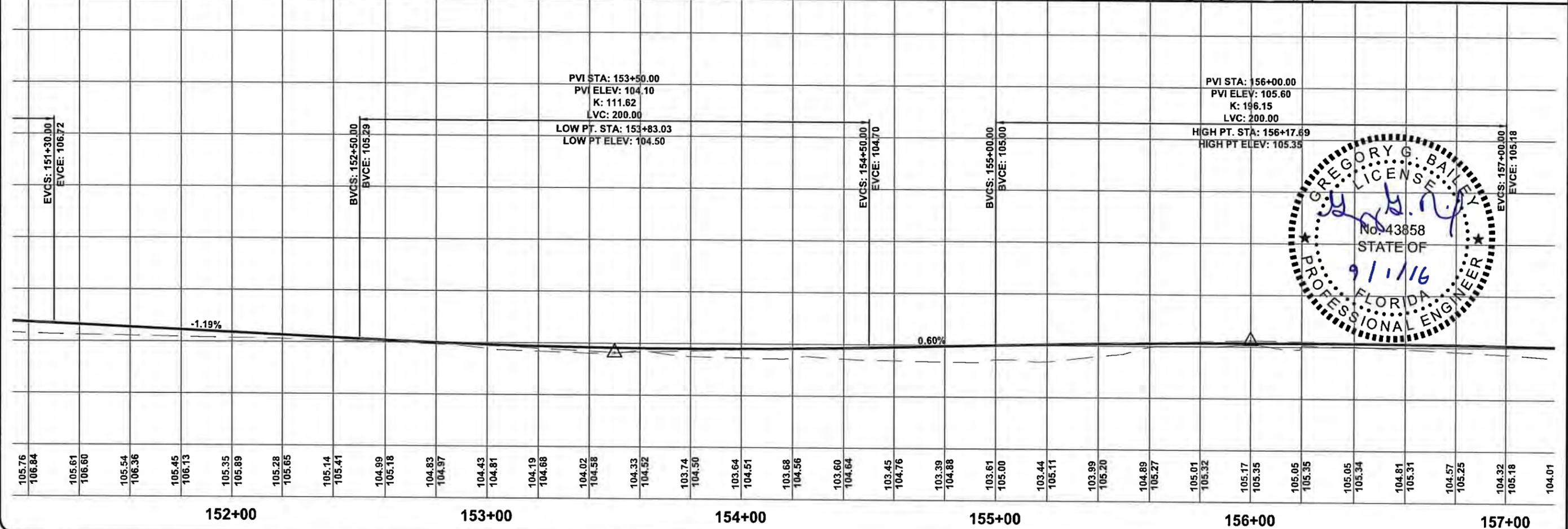
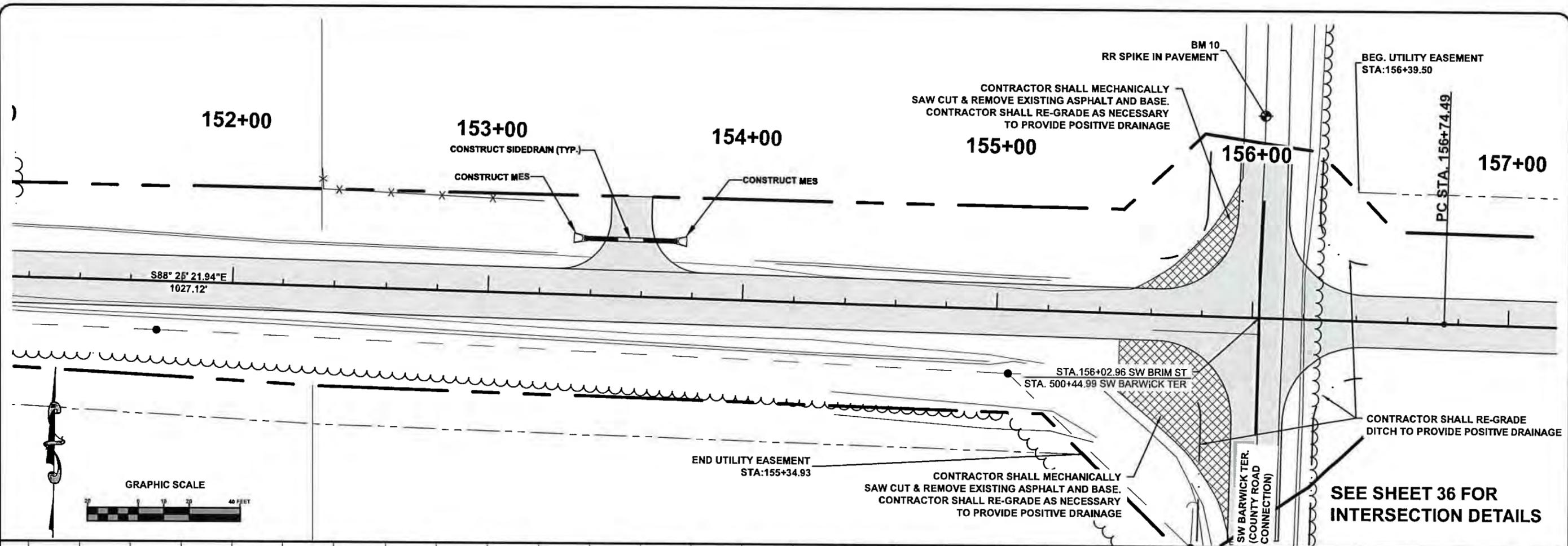
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**C-1 CURVE DATA**  
 PI STA: 159+68.51  
 $\Delta = 5^\circ 52' 31''$   
 $D = 1^\circ 00' 00''$   
 $T = 294.024$   
 $L = 587.53$   
 $R = 5729.615$   
 PC STA: 156+74.50  
 PRC STA: 162+62.02  
 $e = N.C.$

57+00

158+00

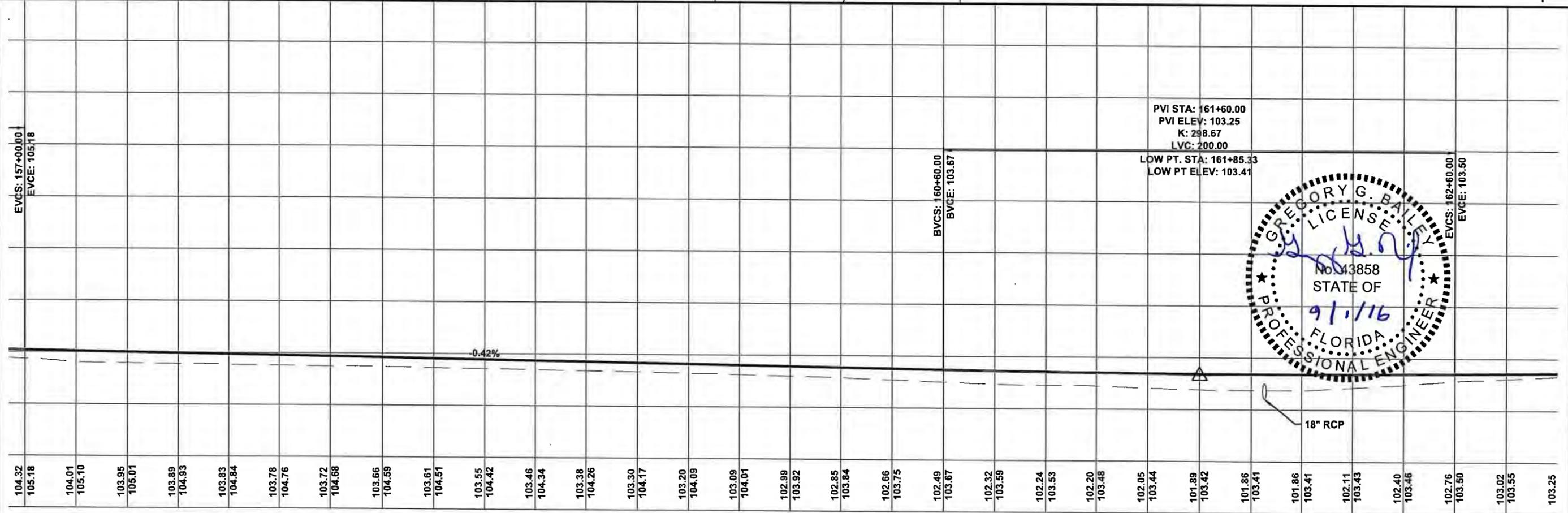
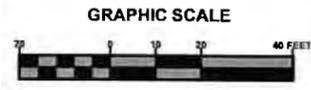
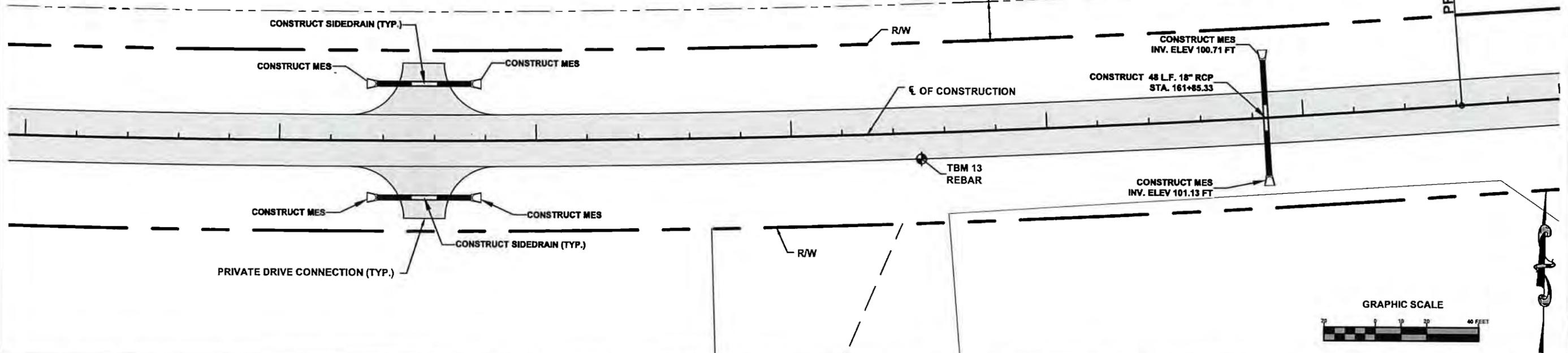
159+00

160+00

161+00

162+00

163+



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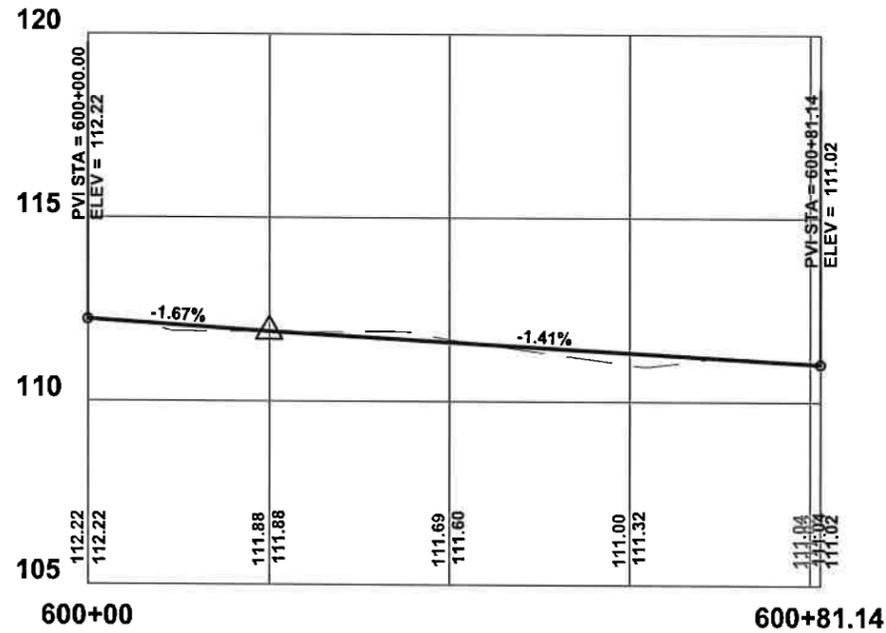
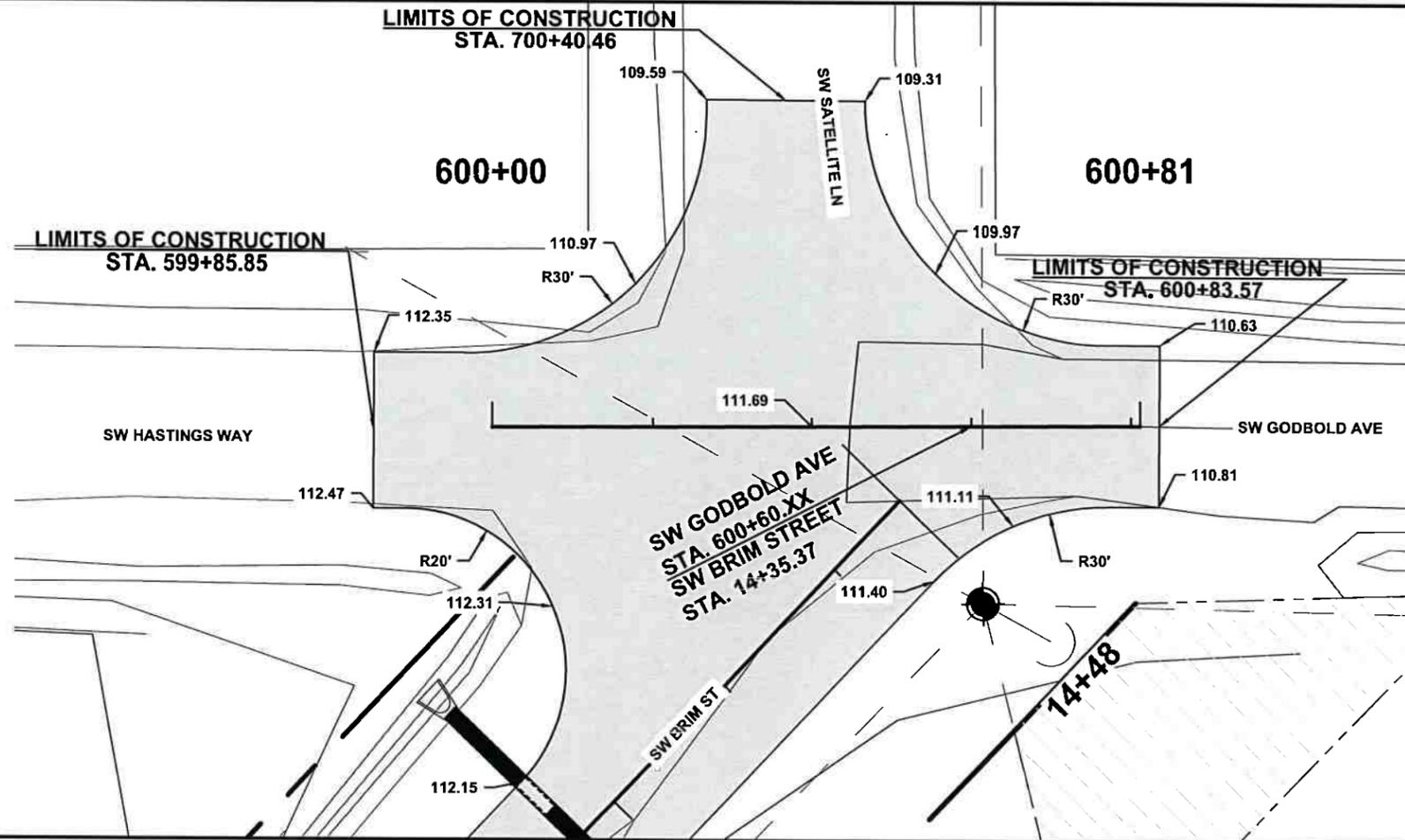


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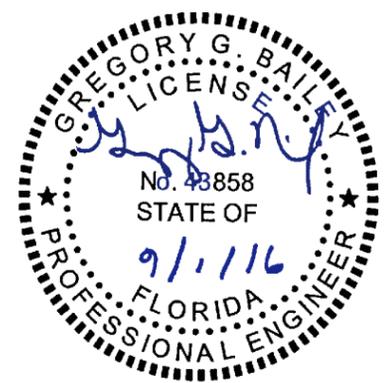
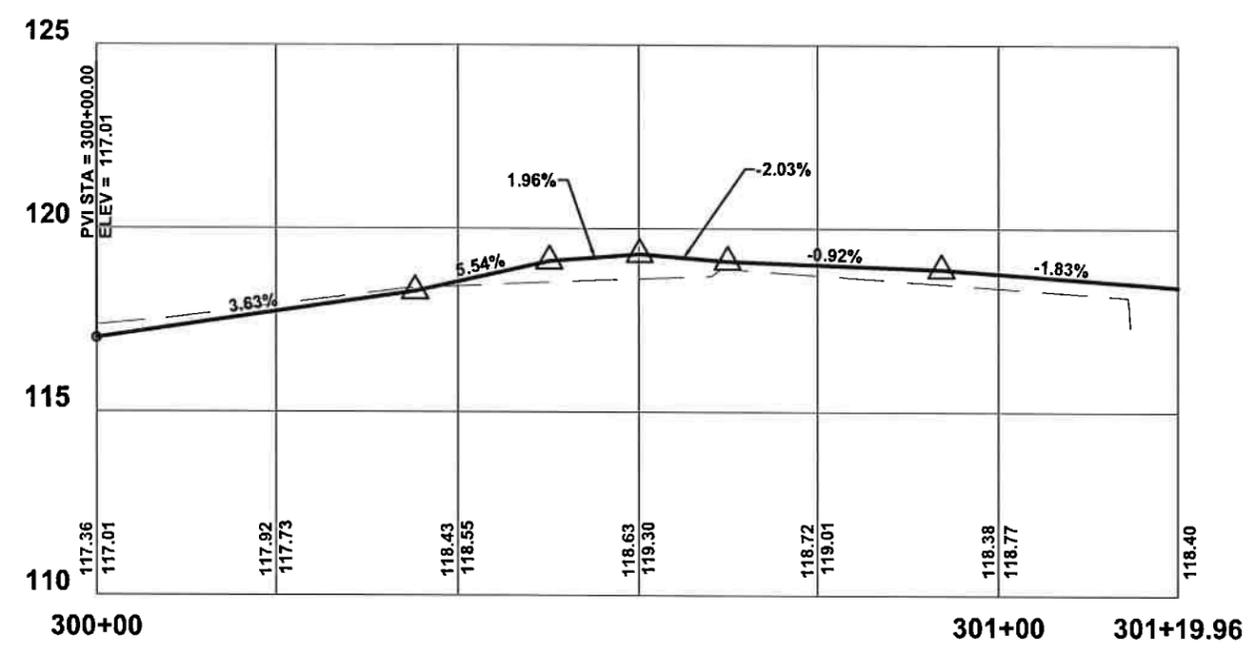
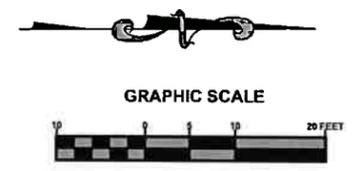
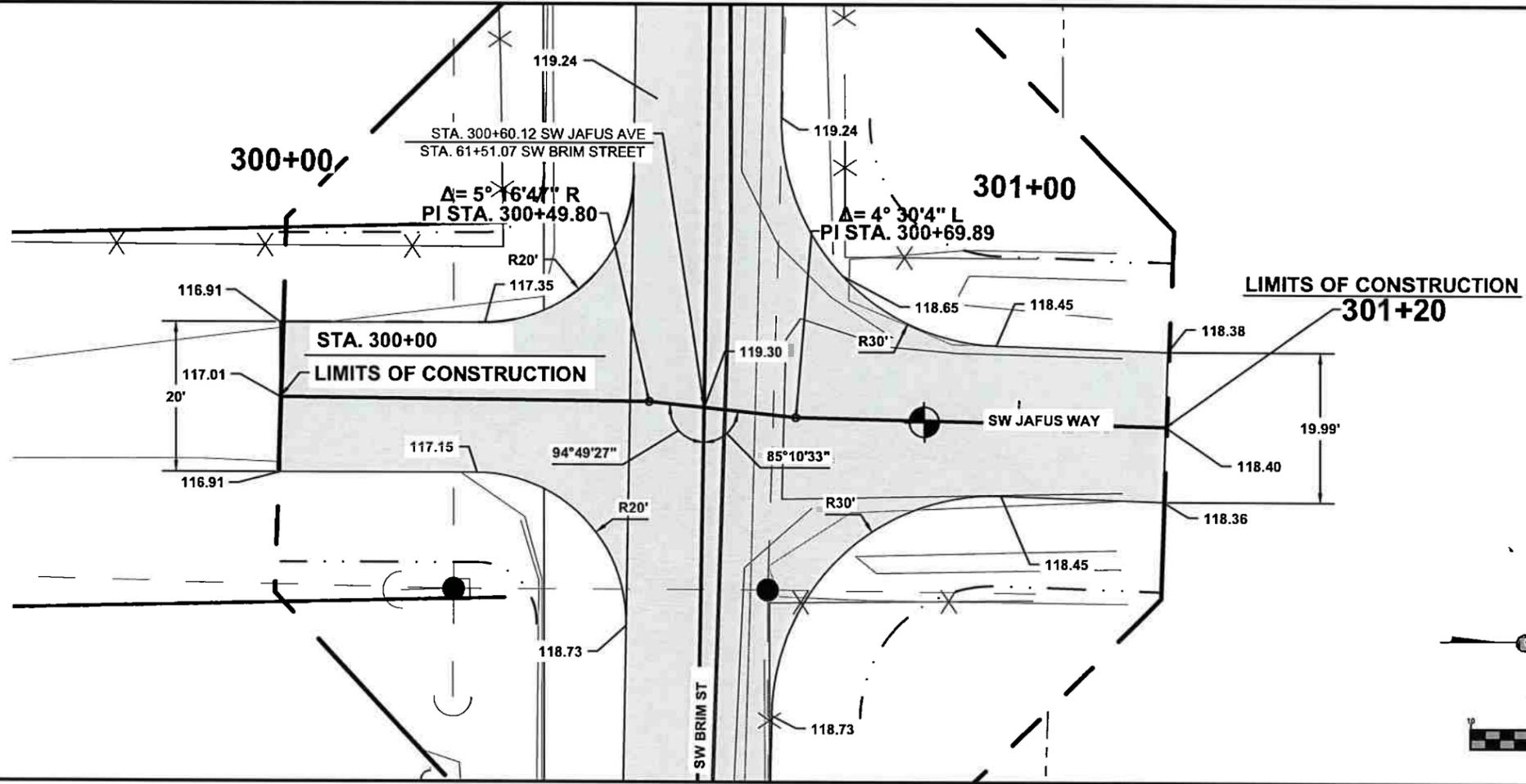


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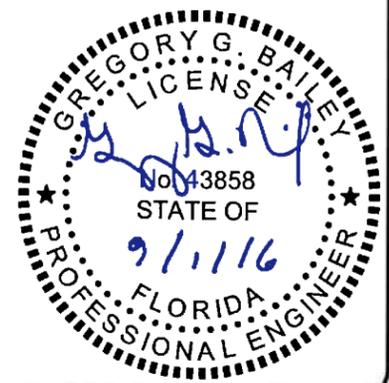
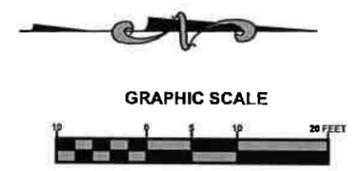
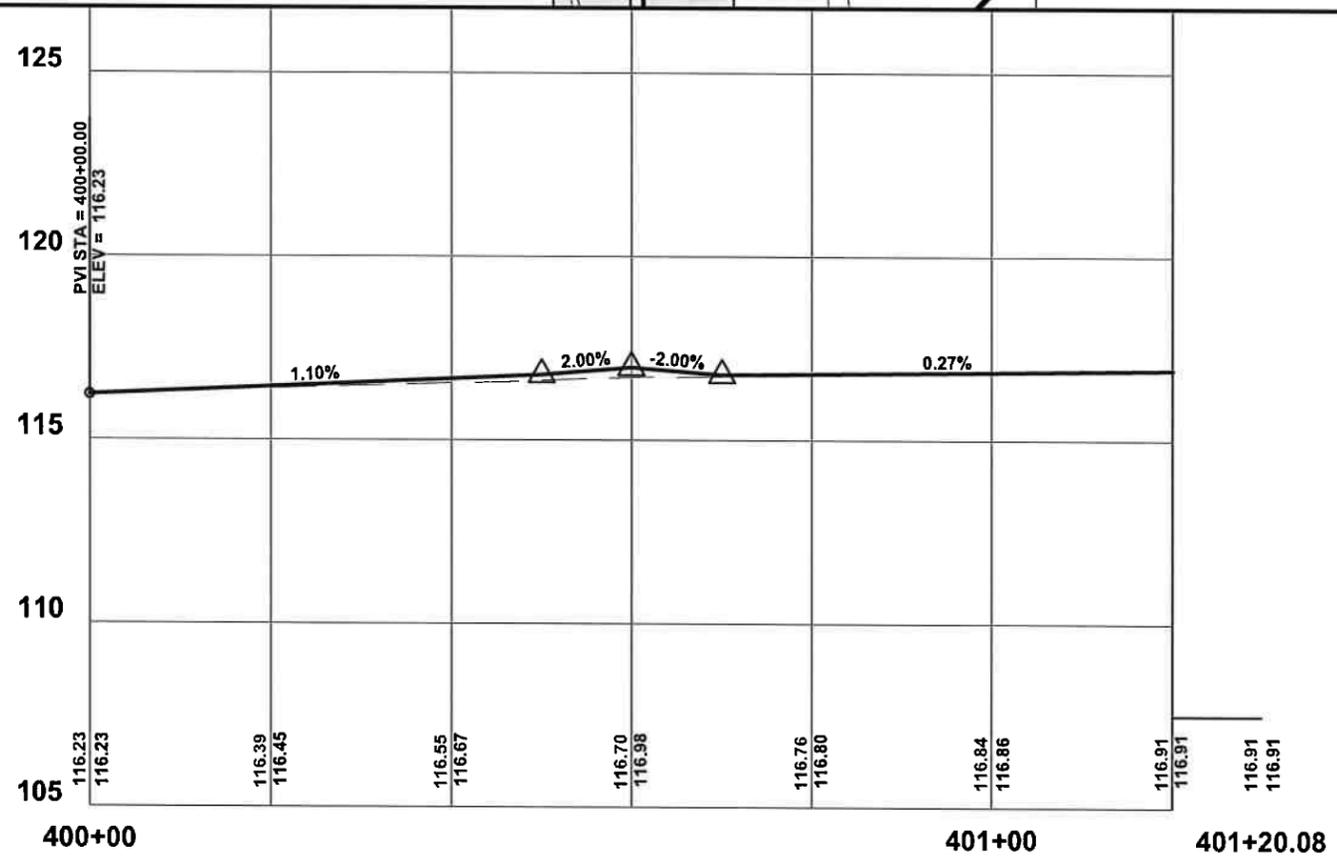
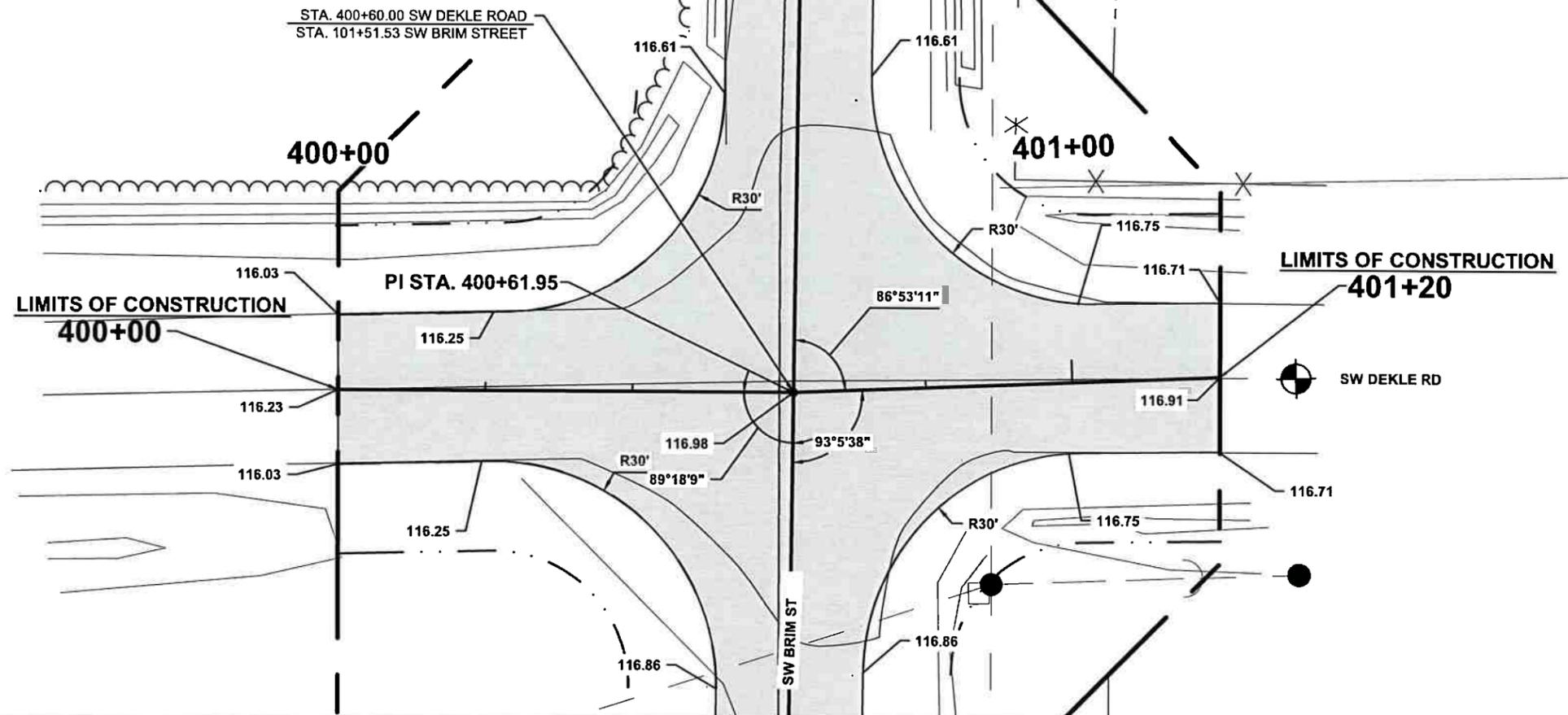
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 Ph. 386-752-4875  
 Fax. 386-752-4874  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
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**INTERSECTION DETAIL**  
 SW JAFUS AVENUE  
 COLUMBIA COUNTY, FLORIDA

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 Tallahassee, FL 32318  
 Ph. 907-335-1525  
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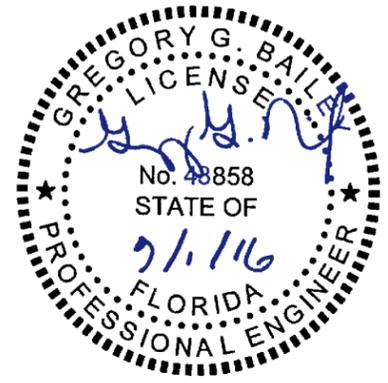
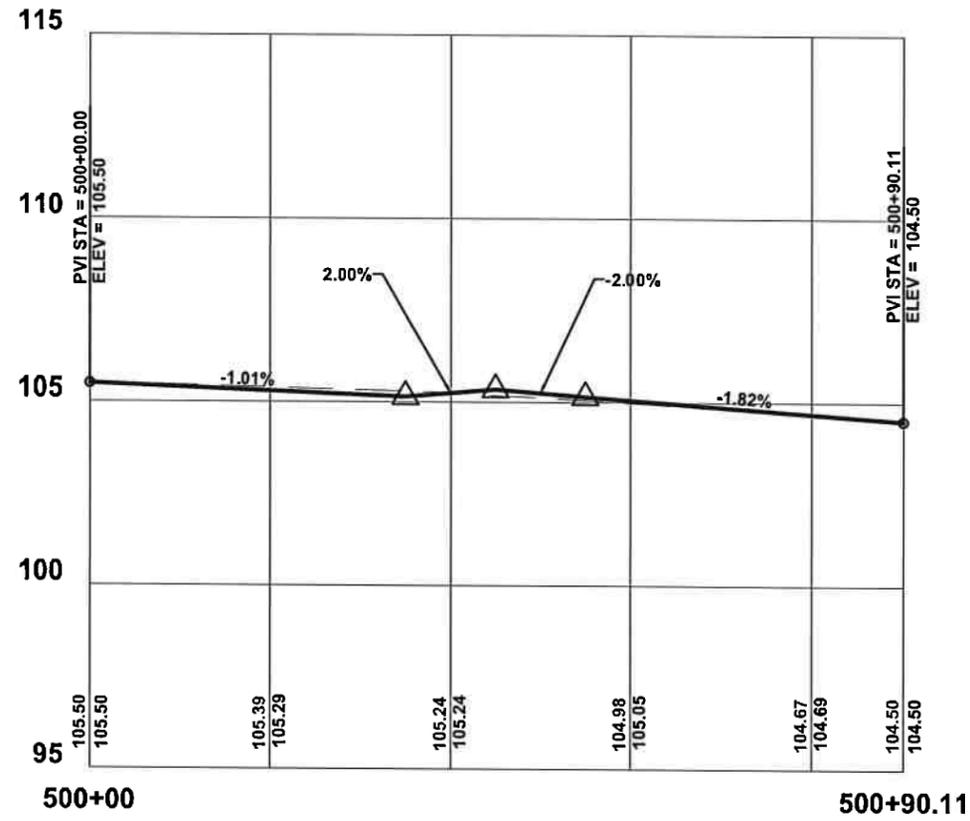
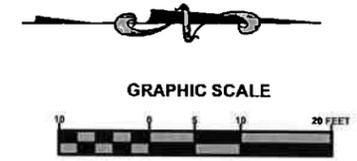
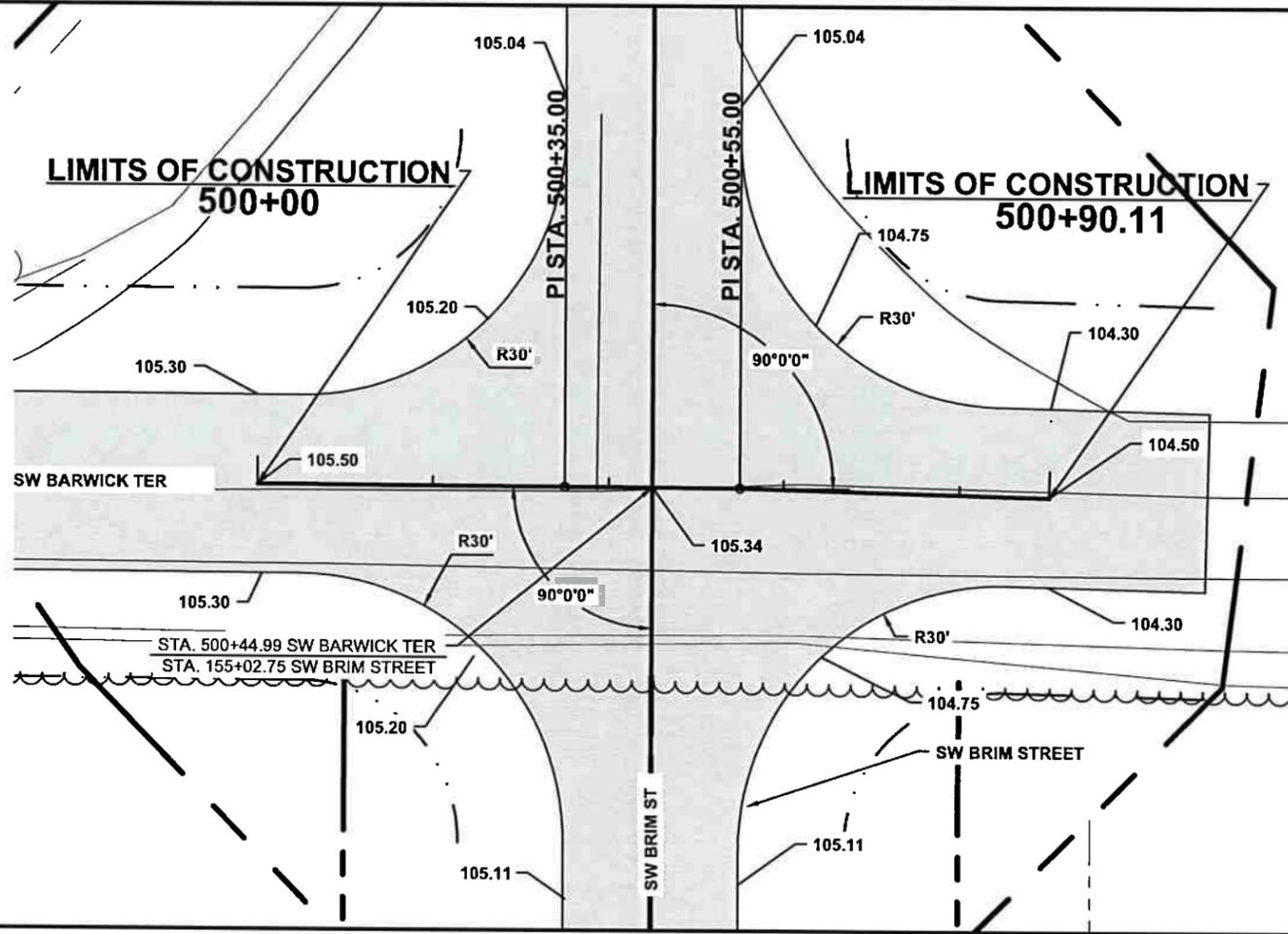
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 SW DEKLE ROAD  
 COLUMBIA COUNTY, FLORIDA

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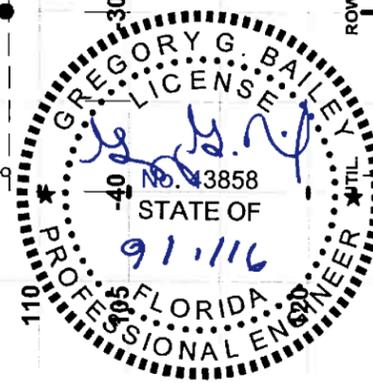
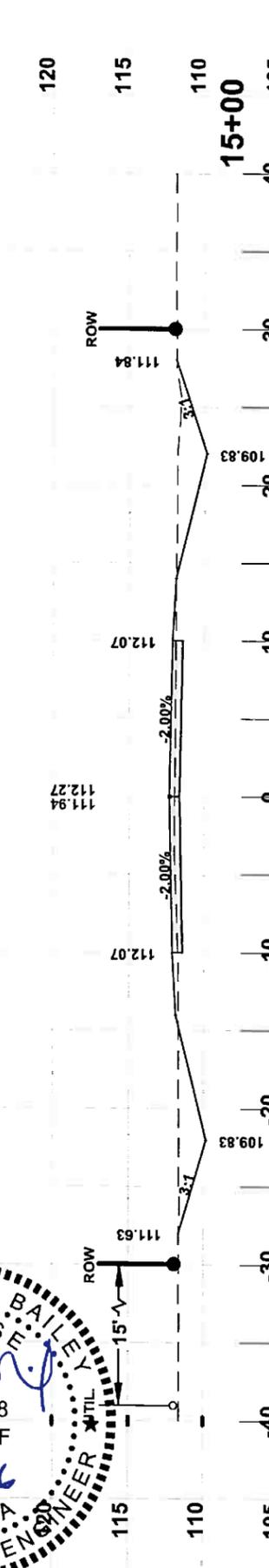
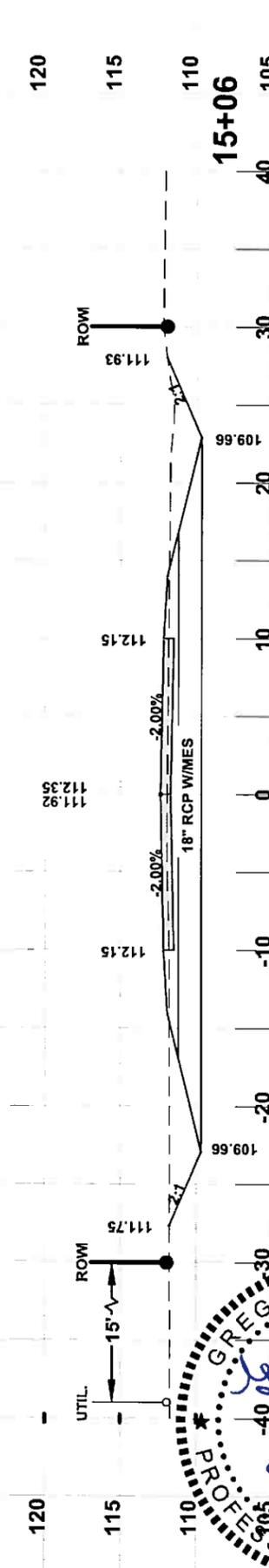
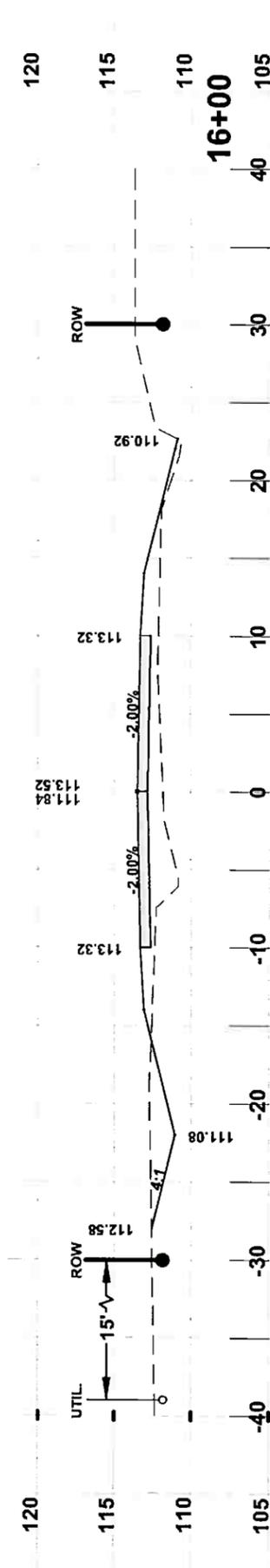
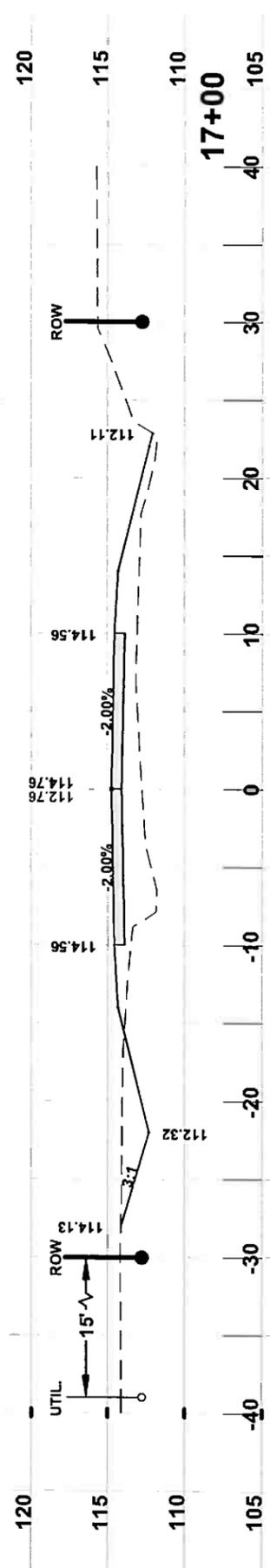
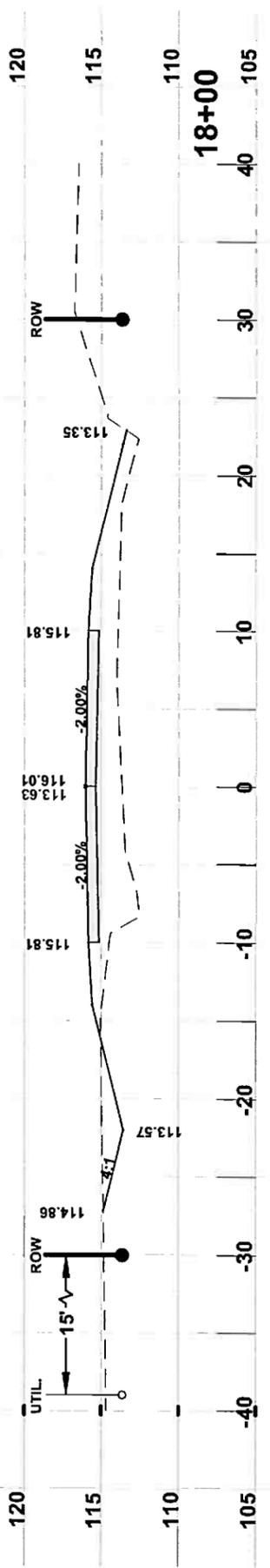
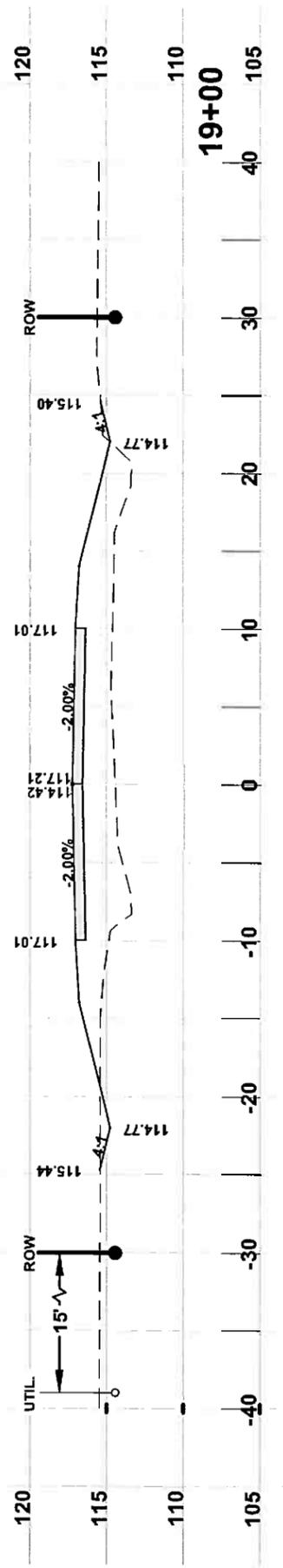


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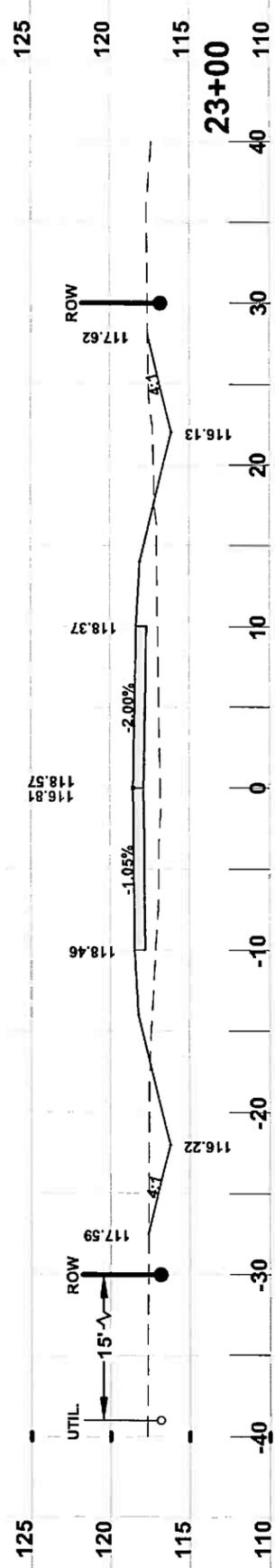
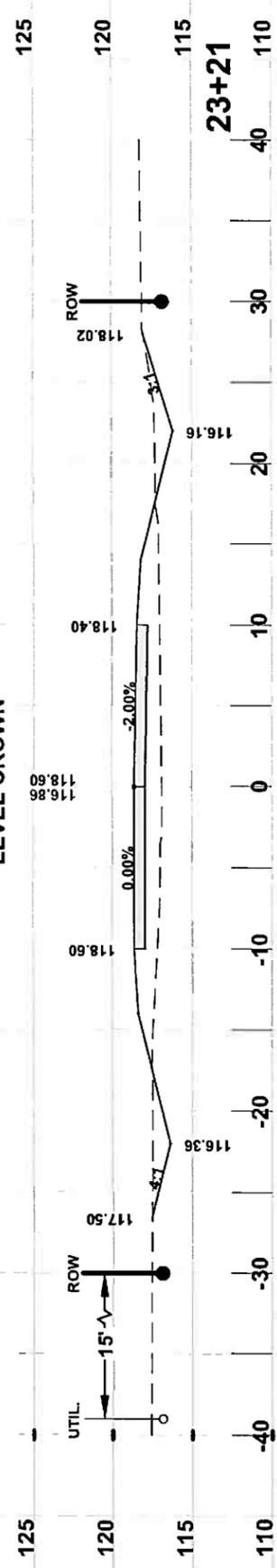
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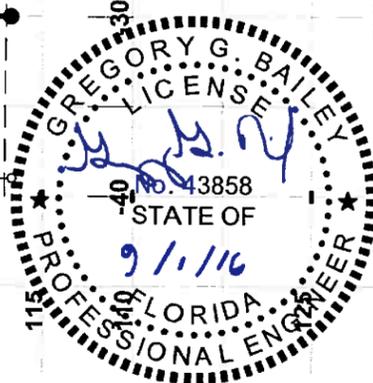
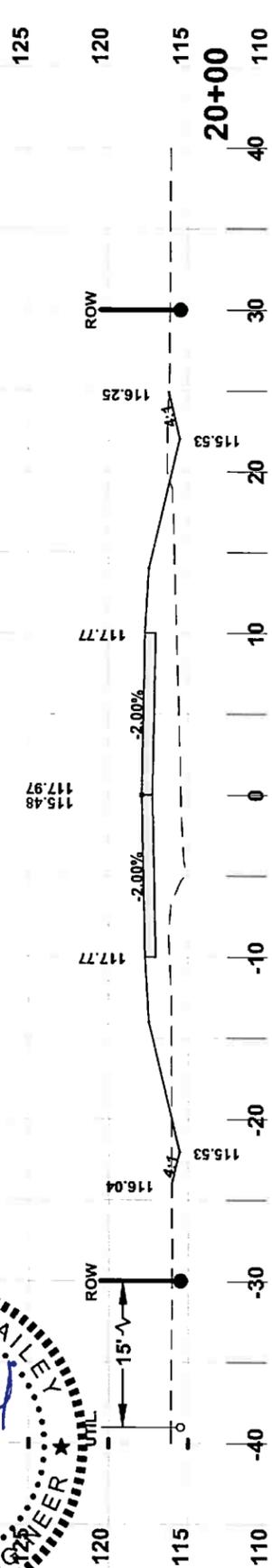
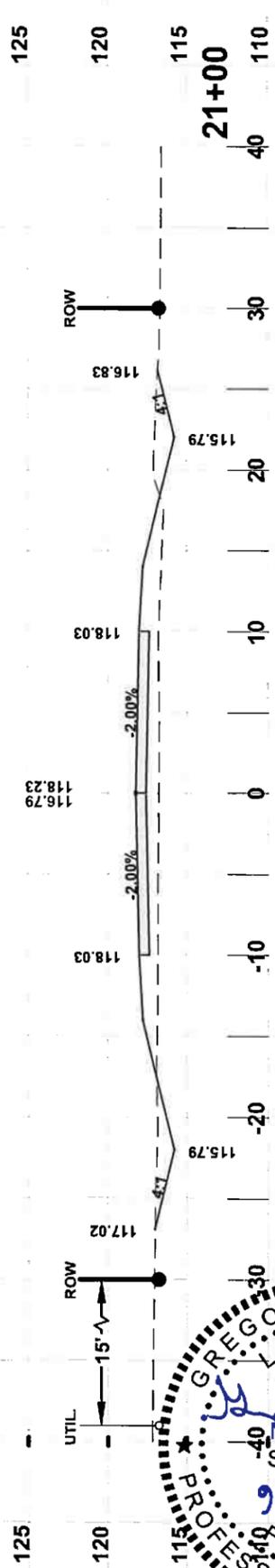
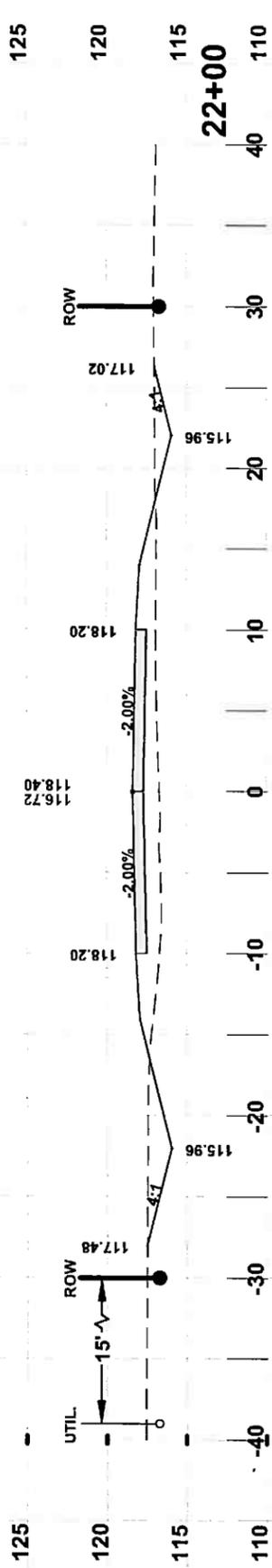
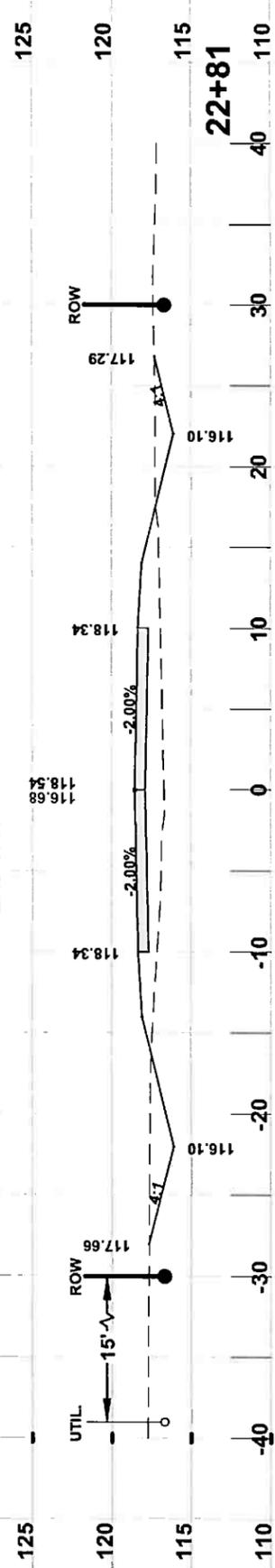
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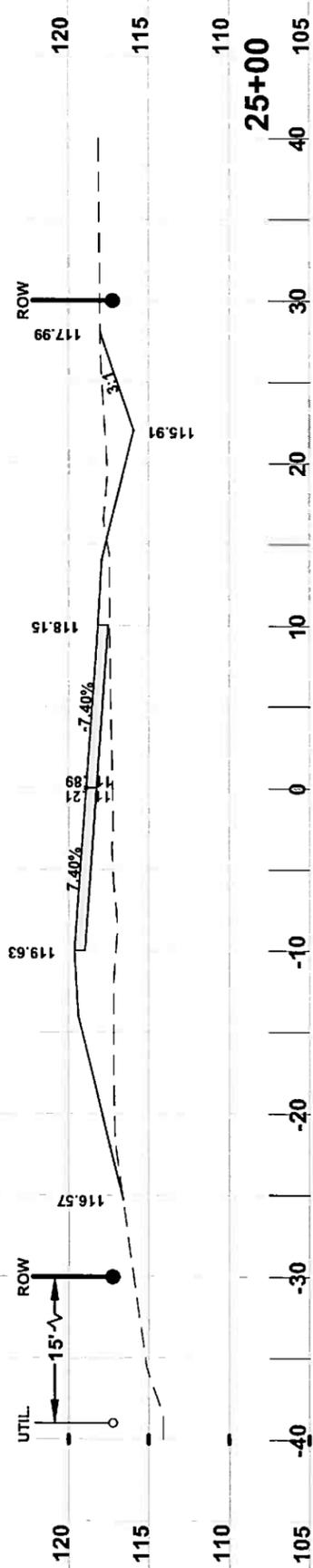
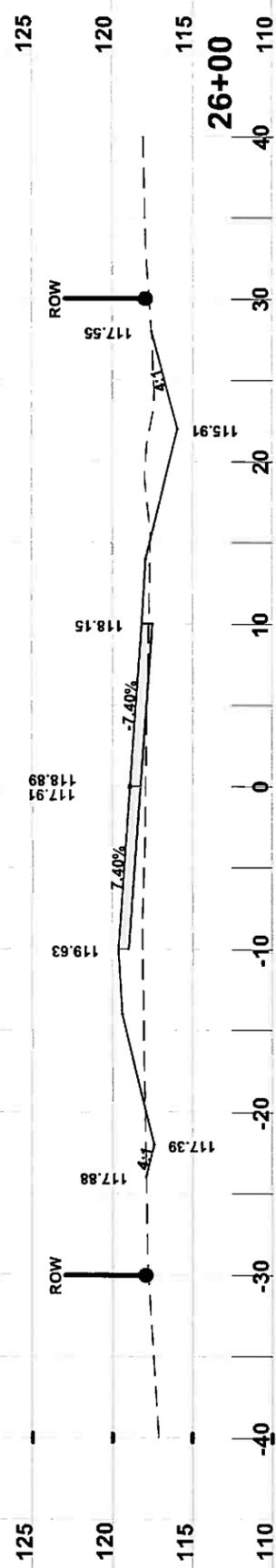
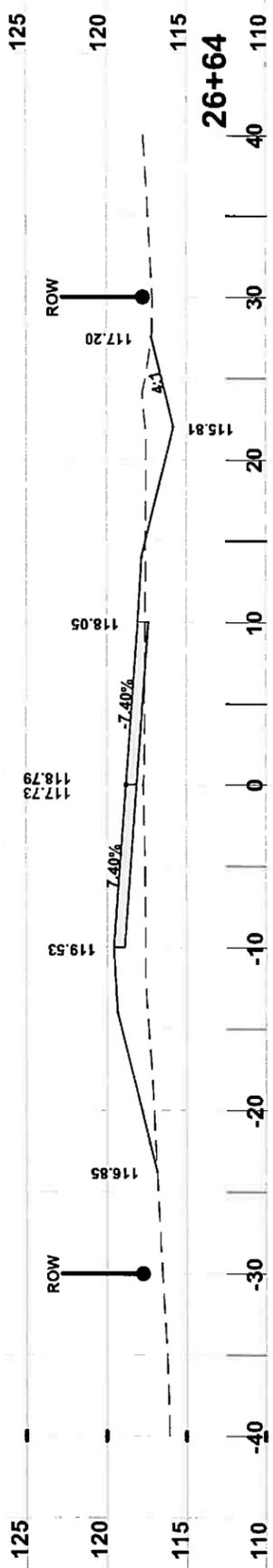
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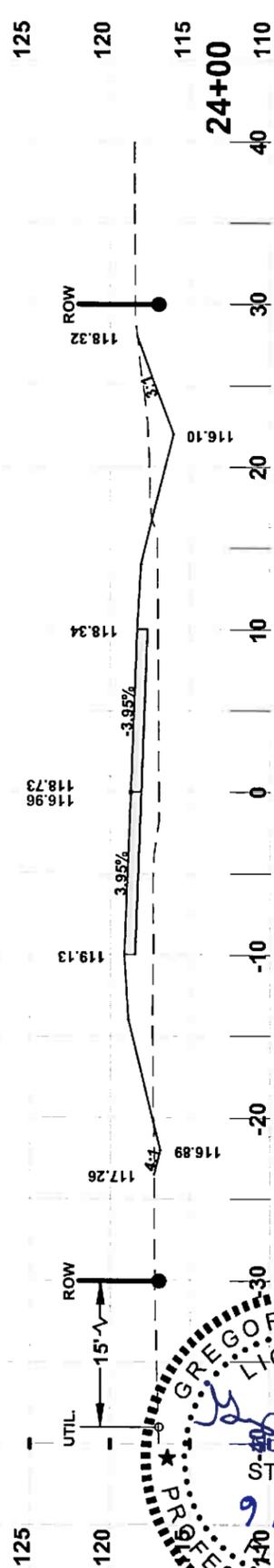
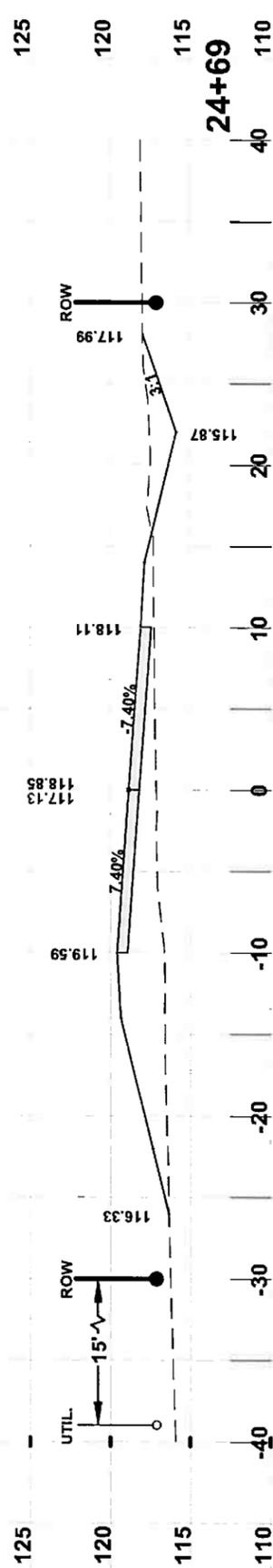
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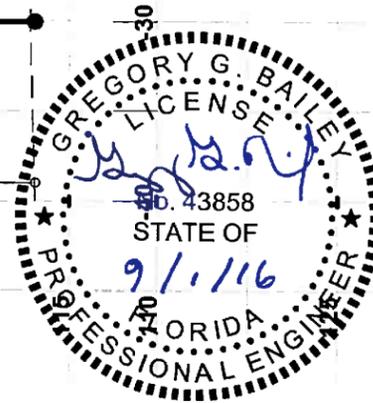
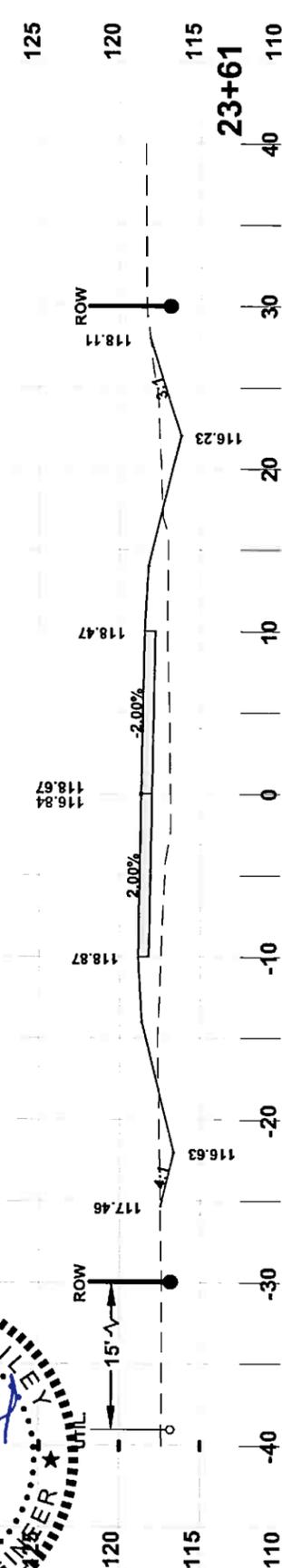
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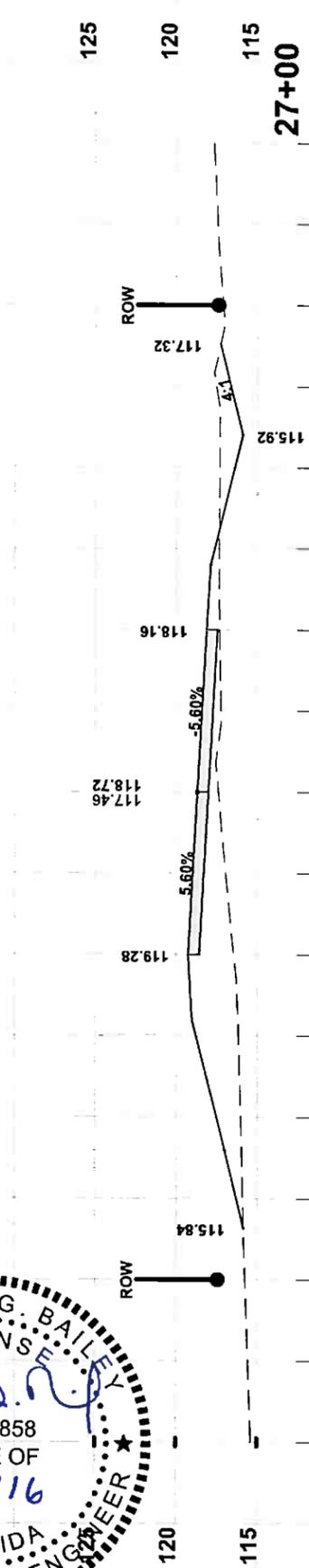
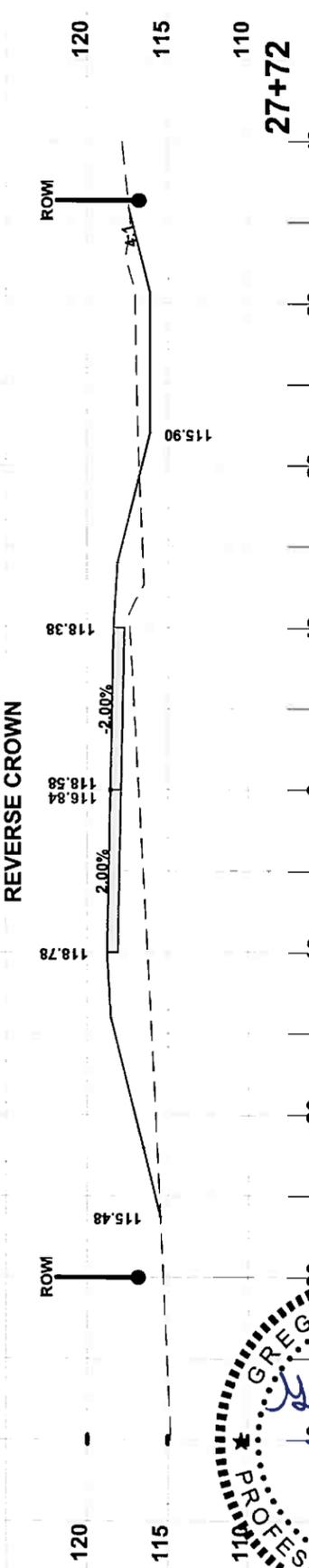
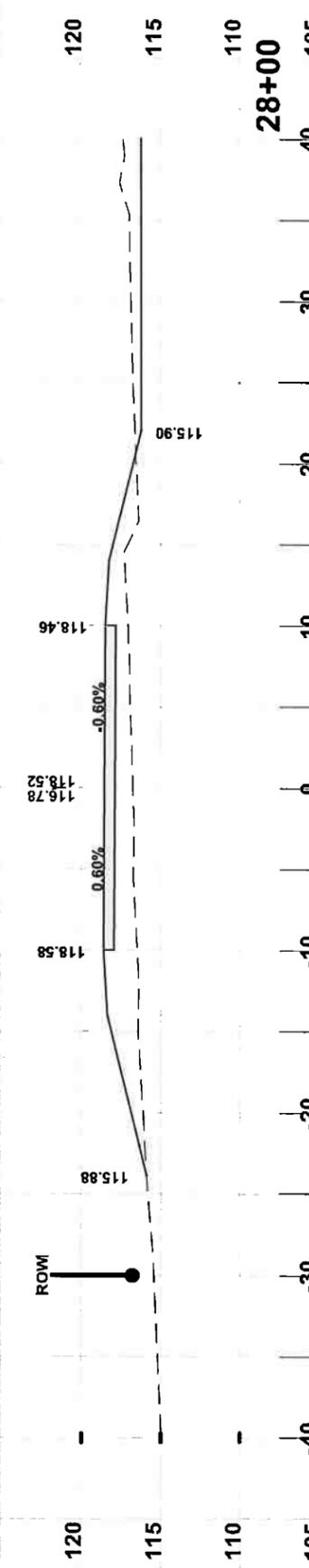
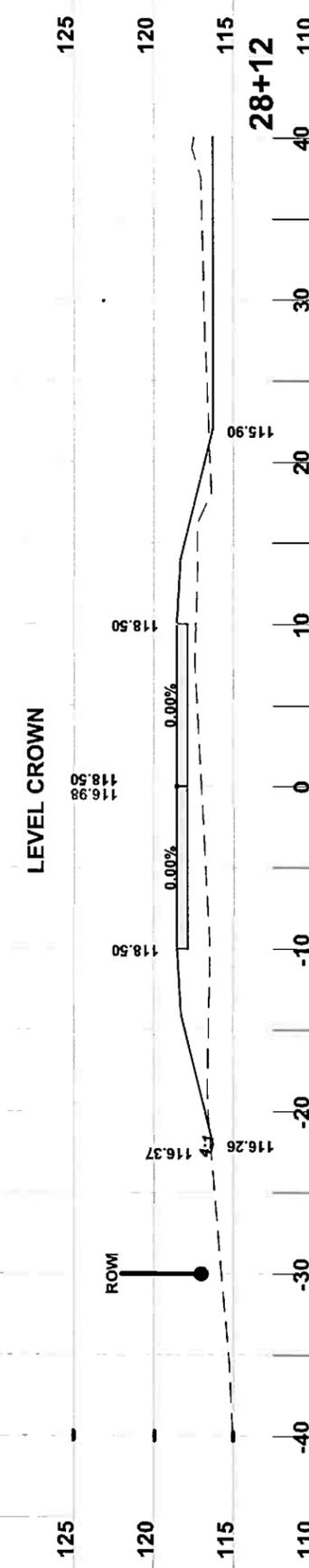
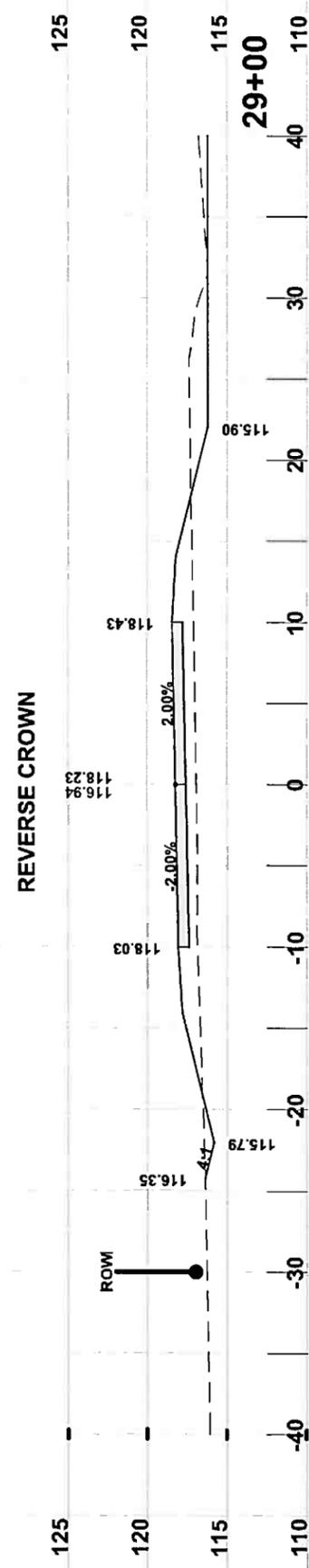
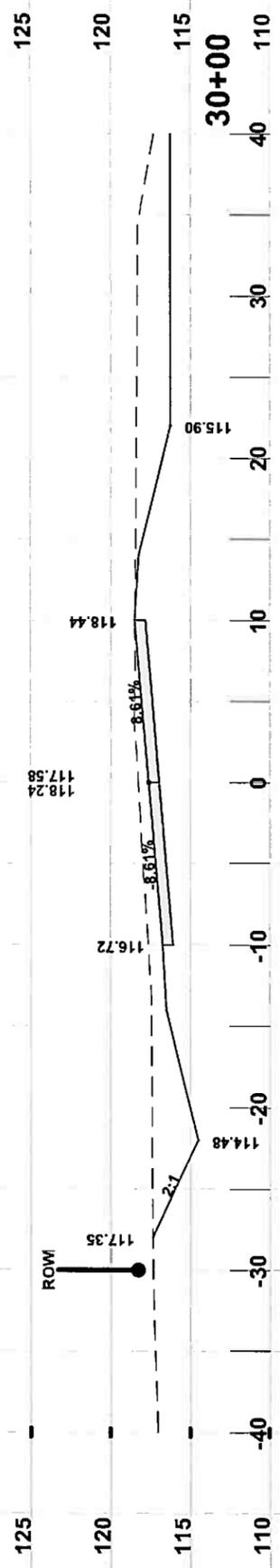


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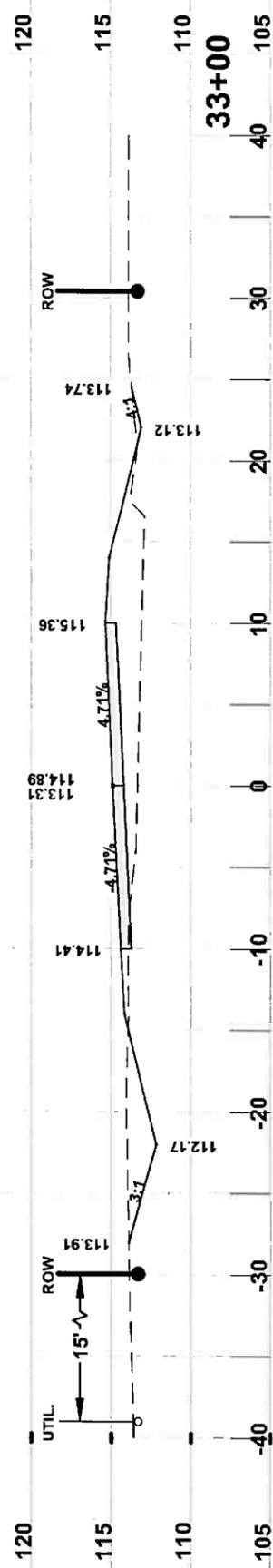
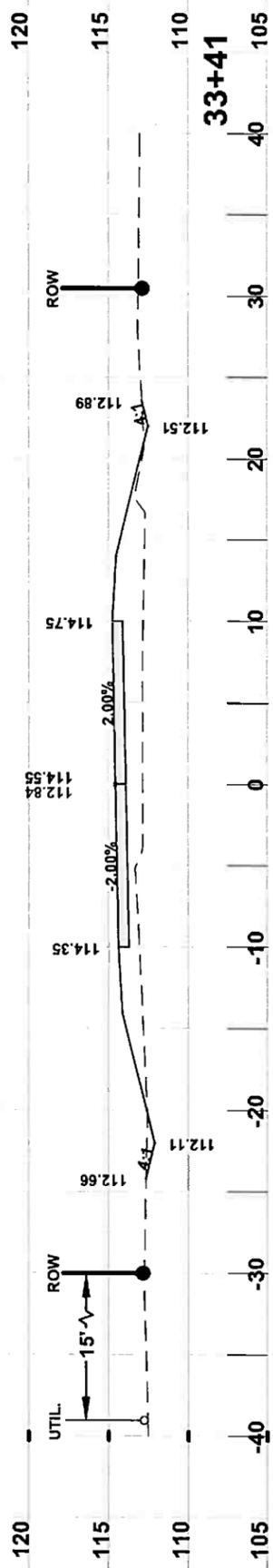


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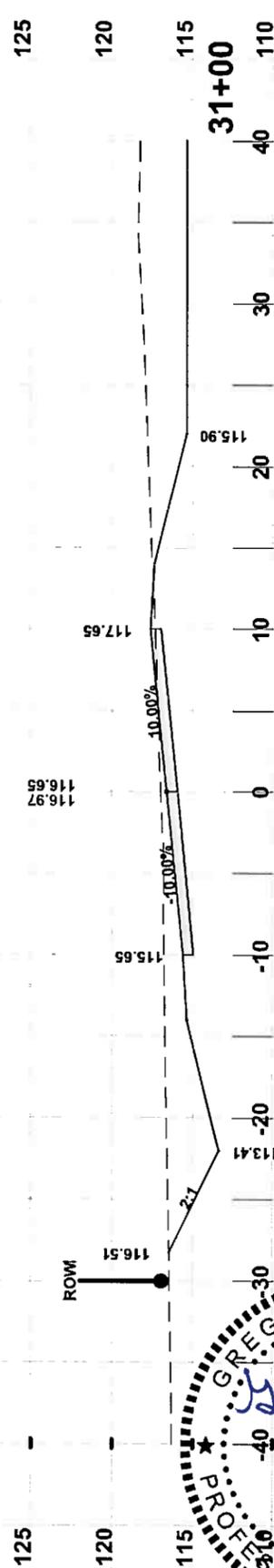
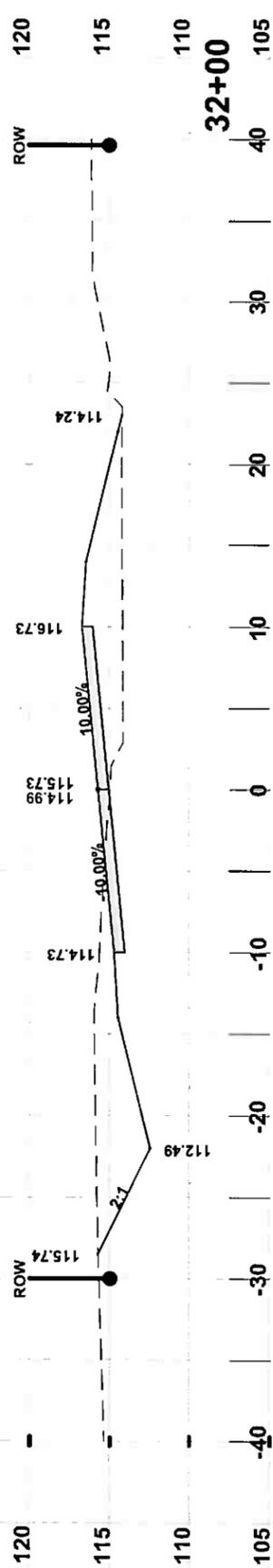
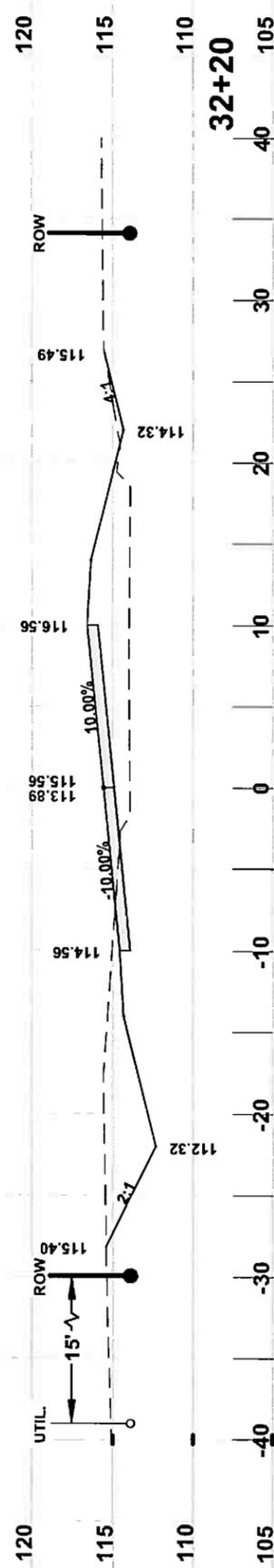




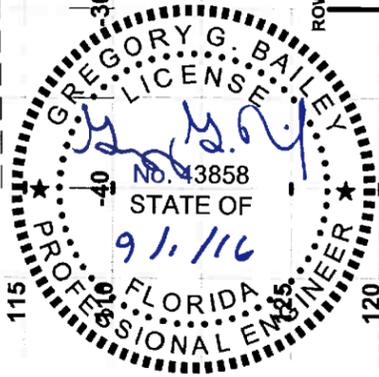
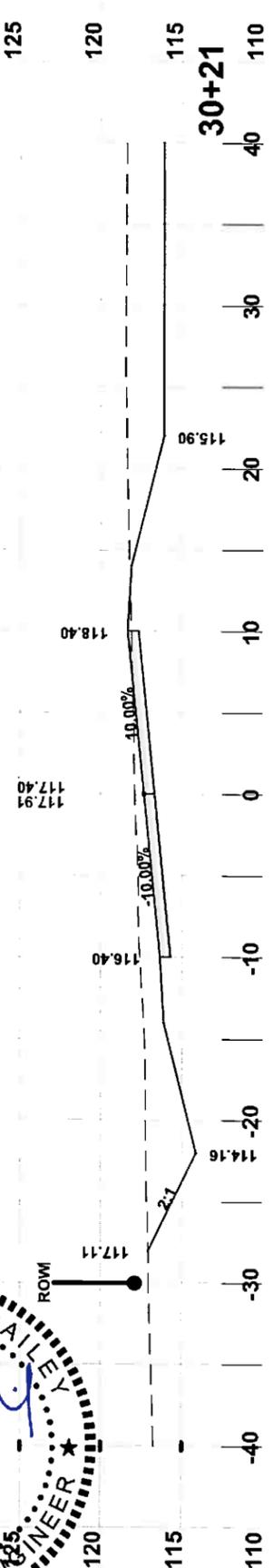
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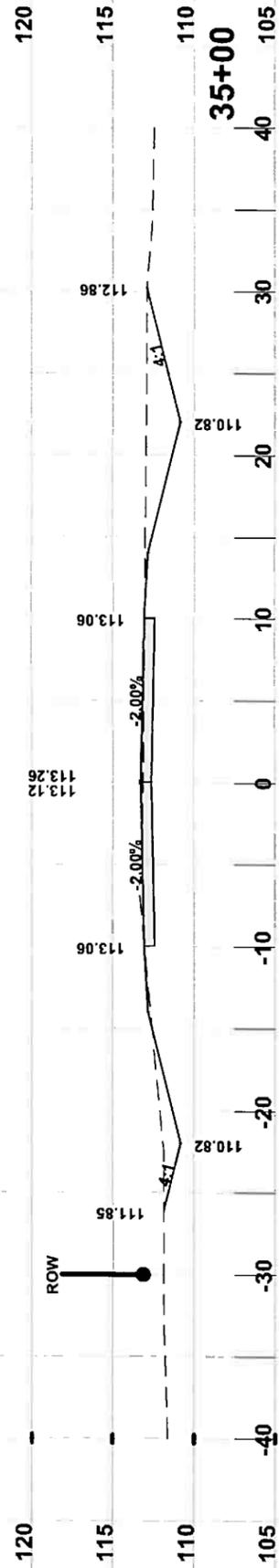
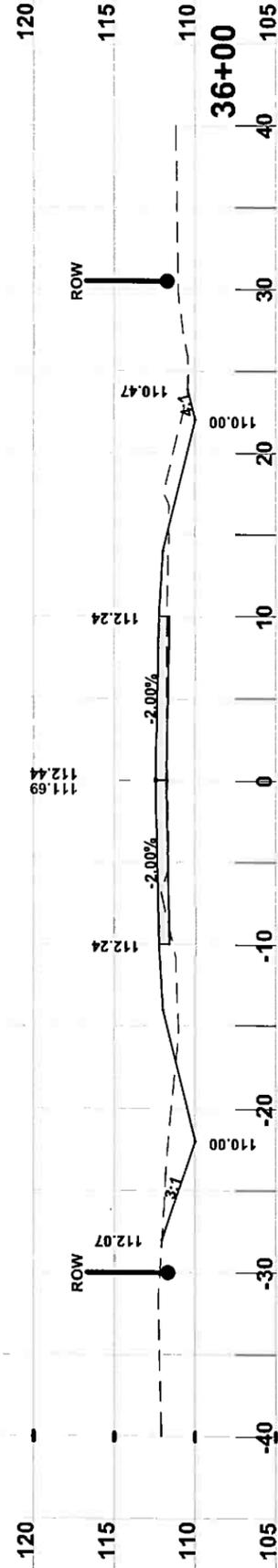
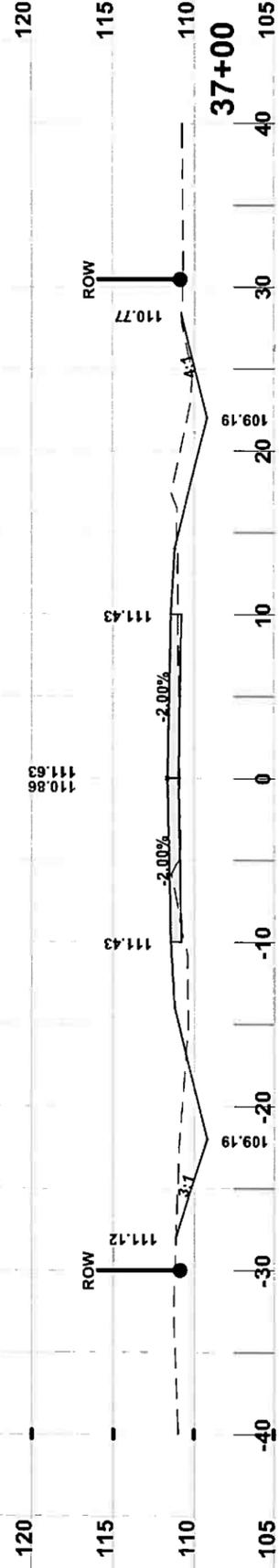
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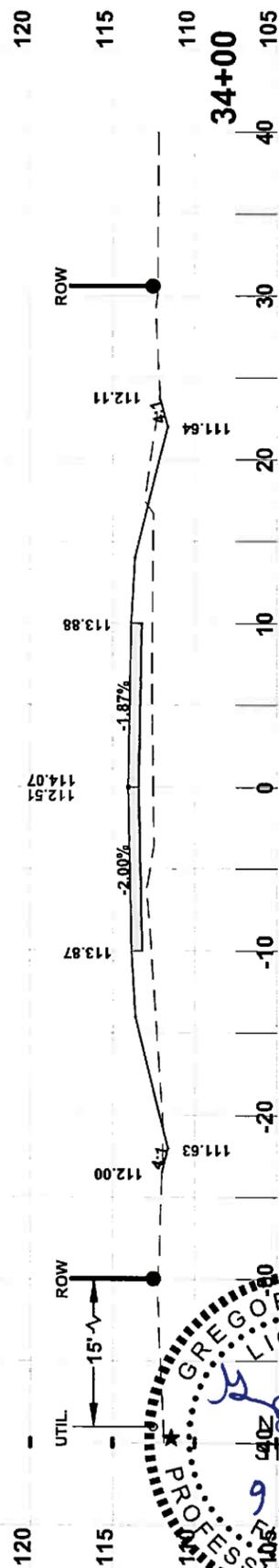
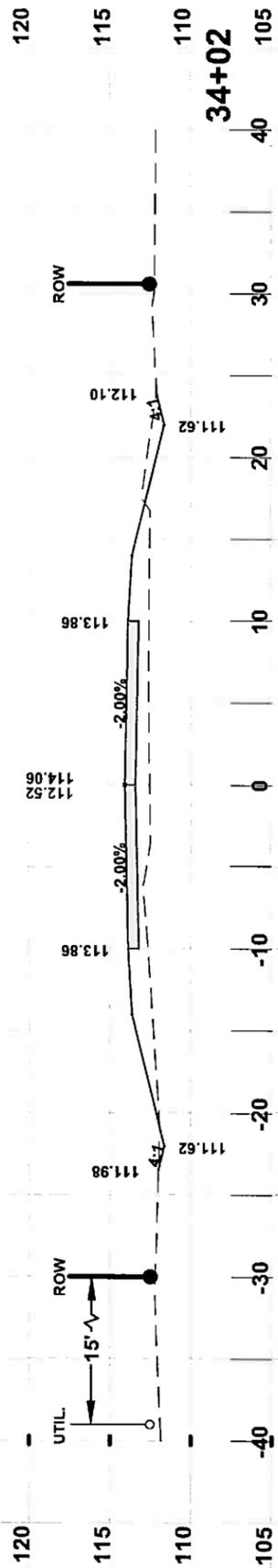
CROSS SECTIONS  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Tallahassee, FL 32318  
 Ph. 977-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

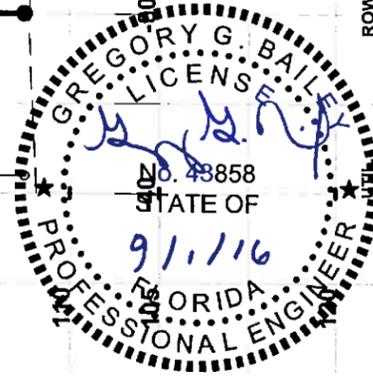
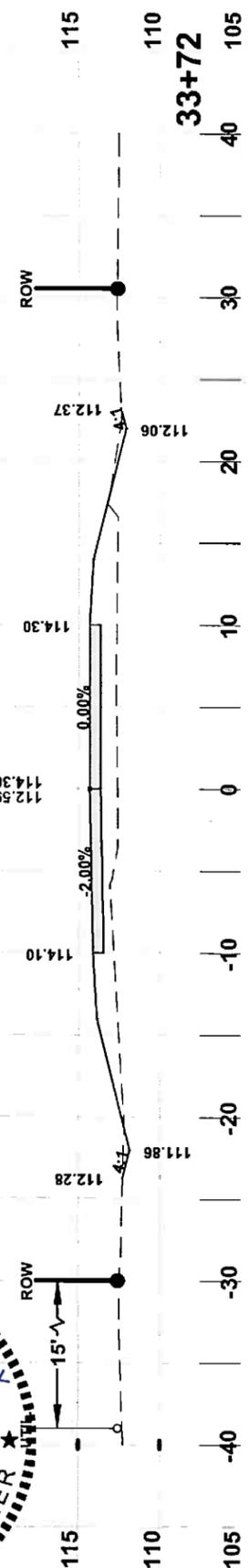
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DRAFTED BY:	RF
CHECKED BY:	GB
DATE:	1/2014
SHEET NO.:	41



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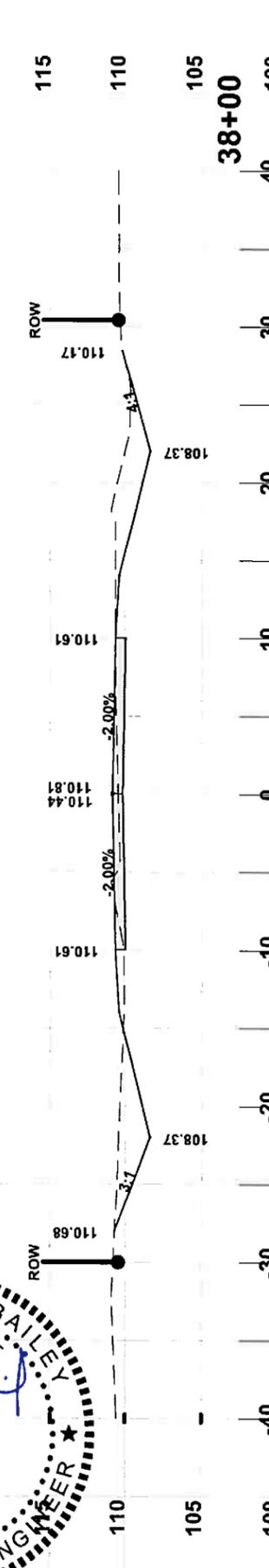
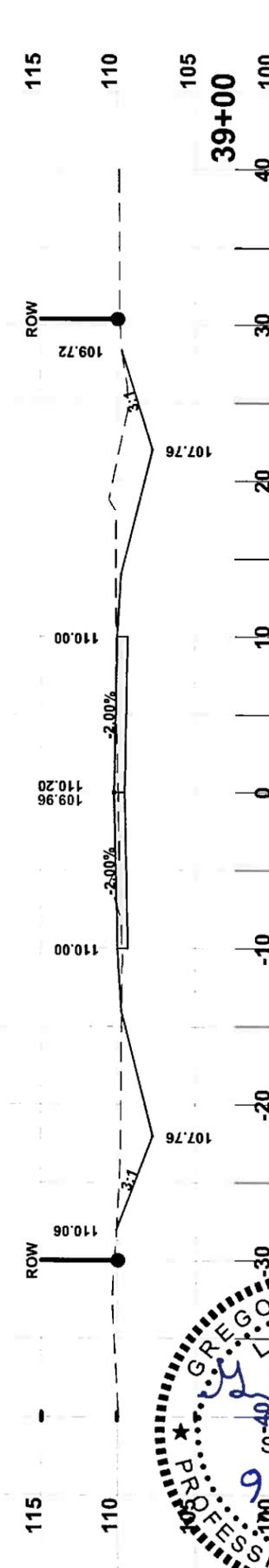
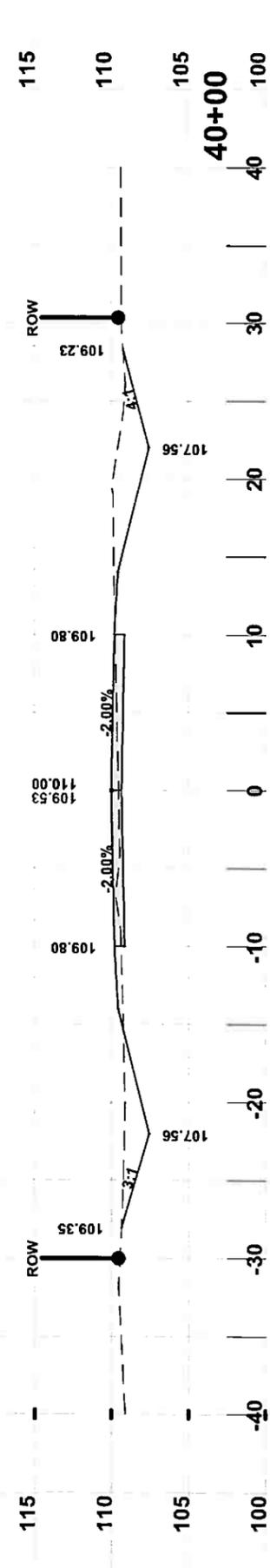
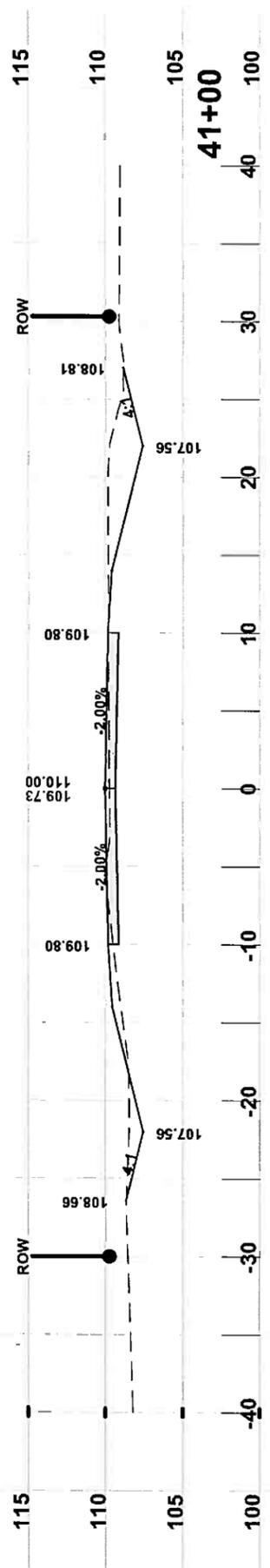
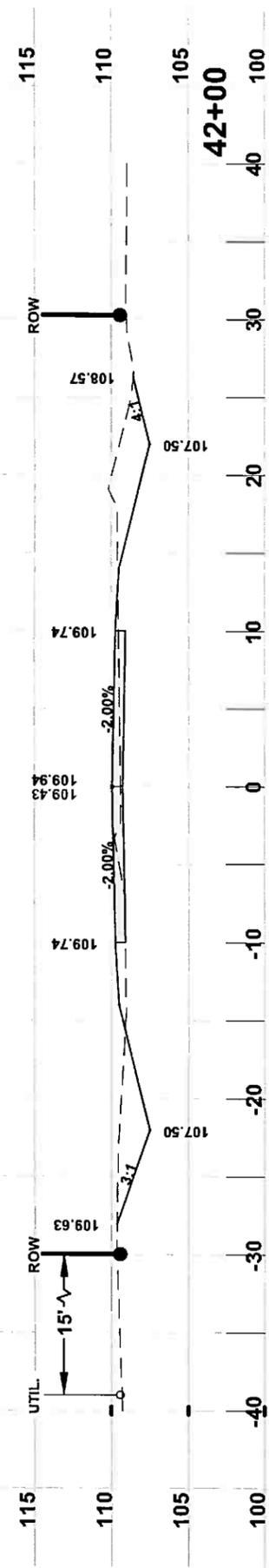
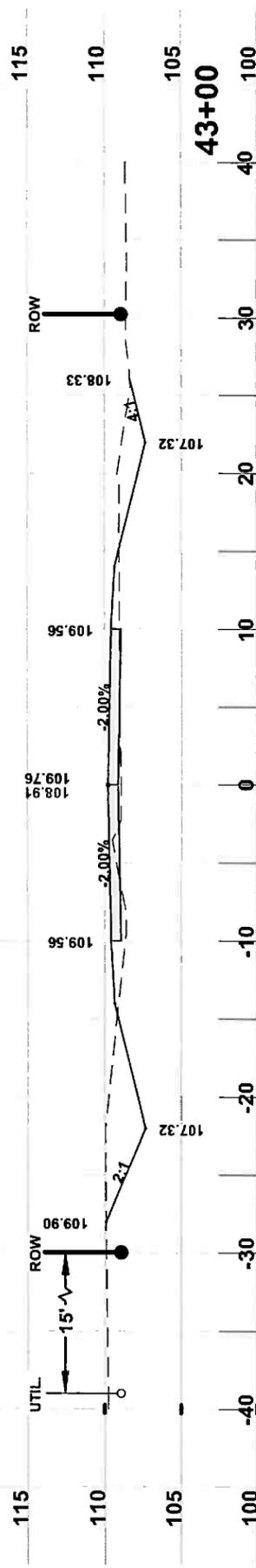


**LEVEL CROWN**



JOB NUMBER: L130715CCB	DESIGNED BY: GREGORY G. BAILE	CHECKED BY: GB
DATE: 1/2014	REVISIONS:	SIGNATURE & SEAL
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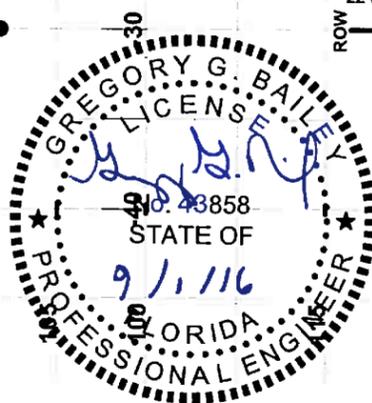
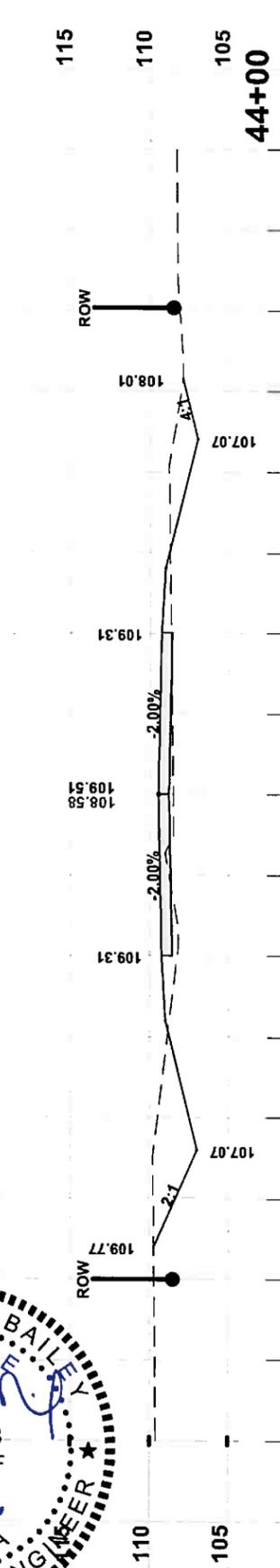
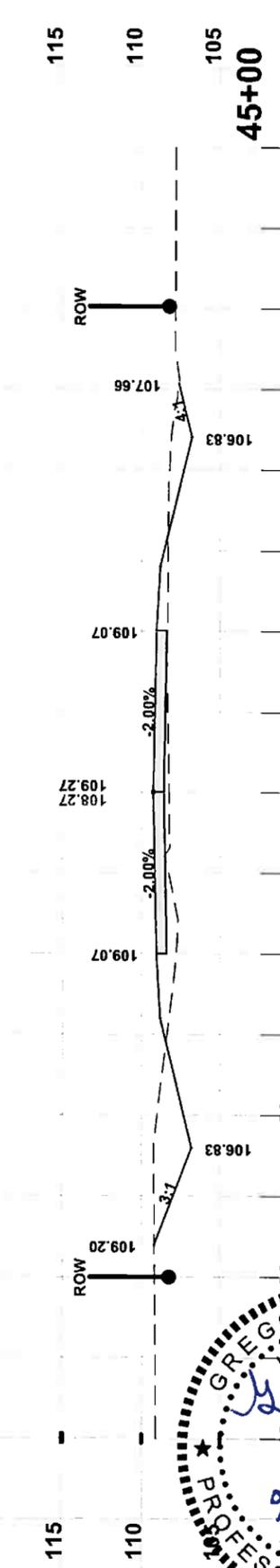
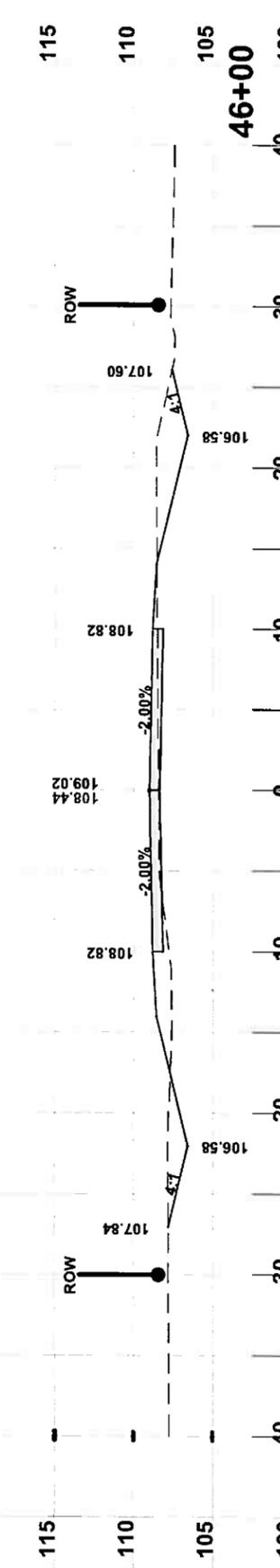
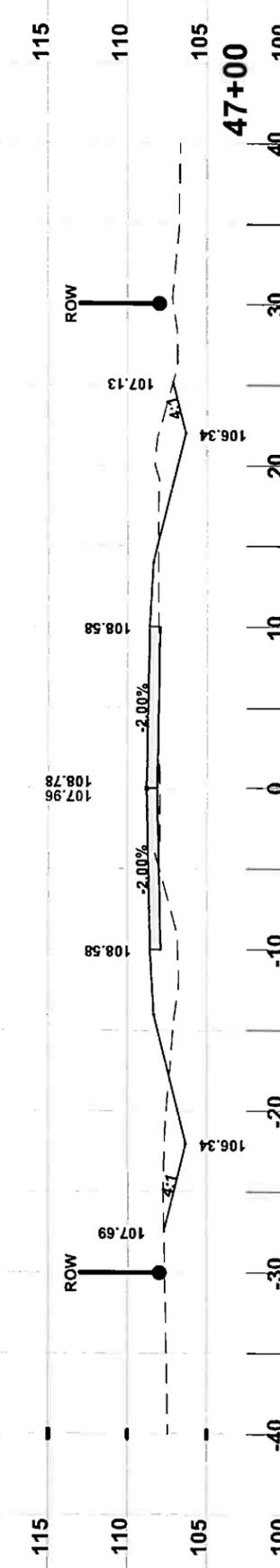
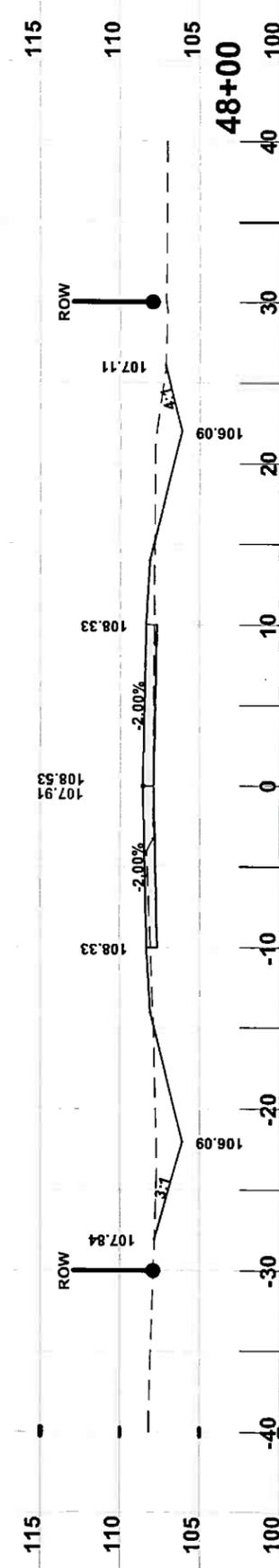
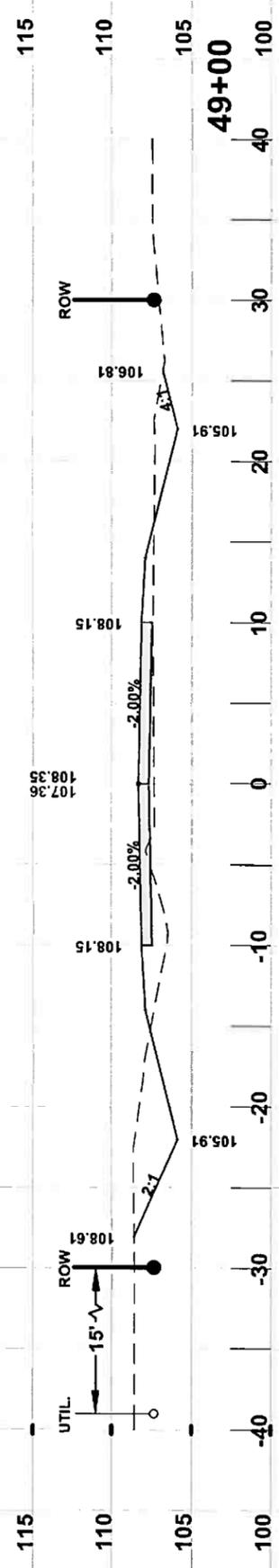
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 DATE: 1/2014  
 DESIGNED BY: RF  
 CHECKED BY: GB  
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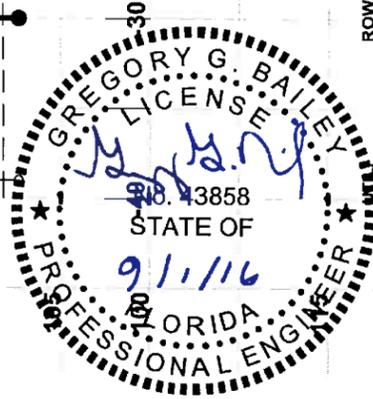
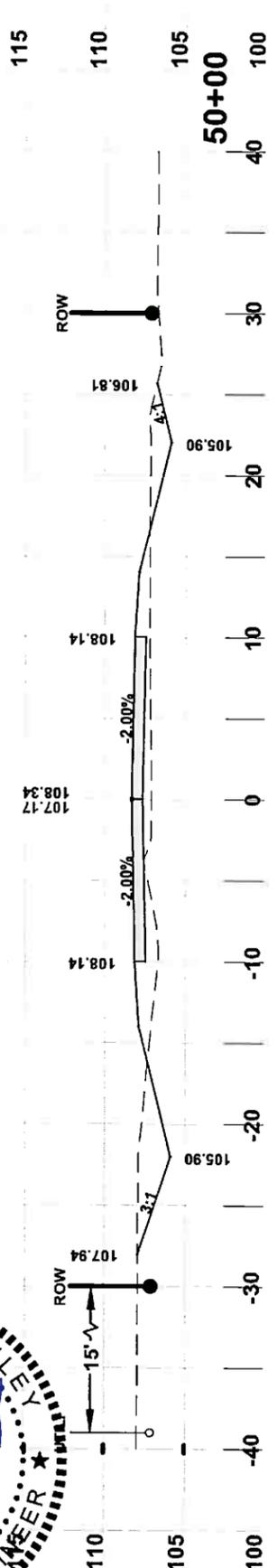
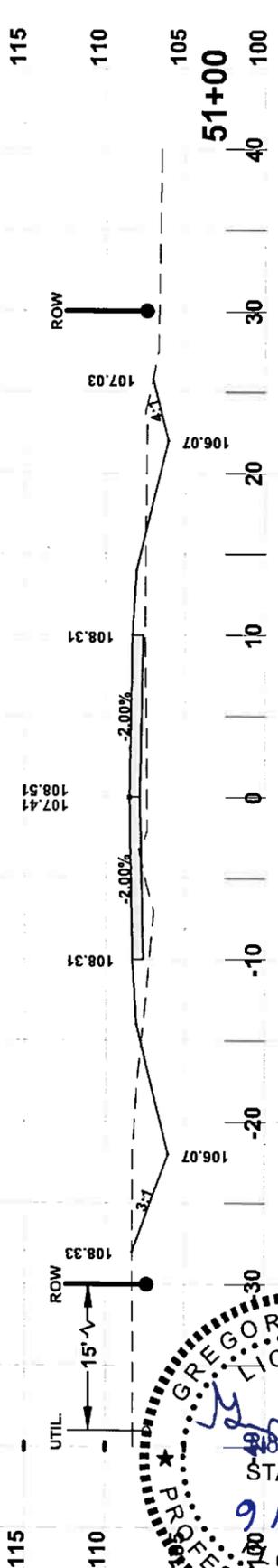
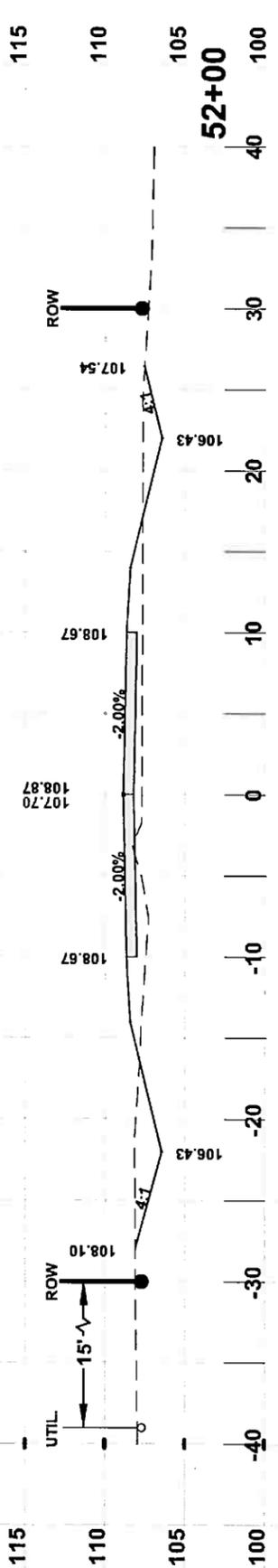
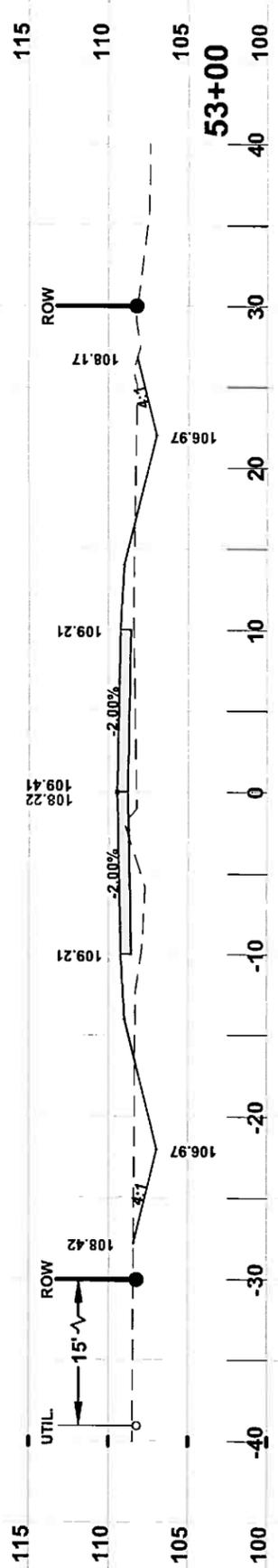
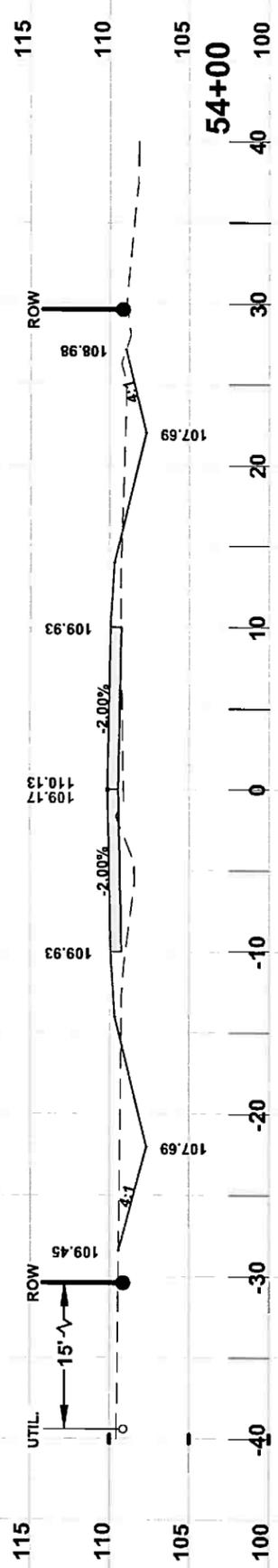
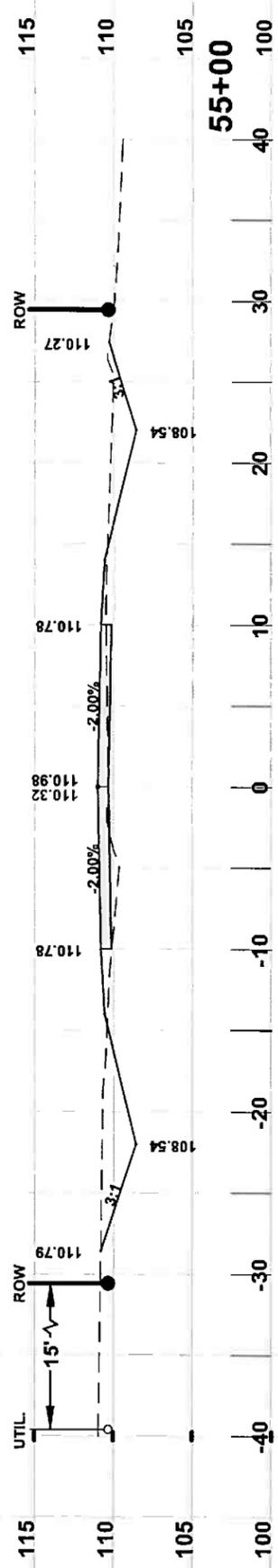


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DATE:	1/2014	SIGNATURE & SEAL:	
SHEET NO.:	44		



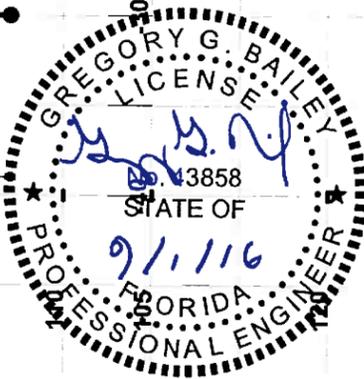
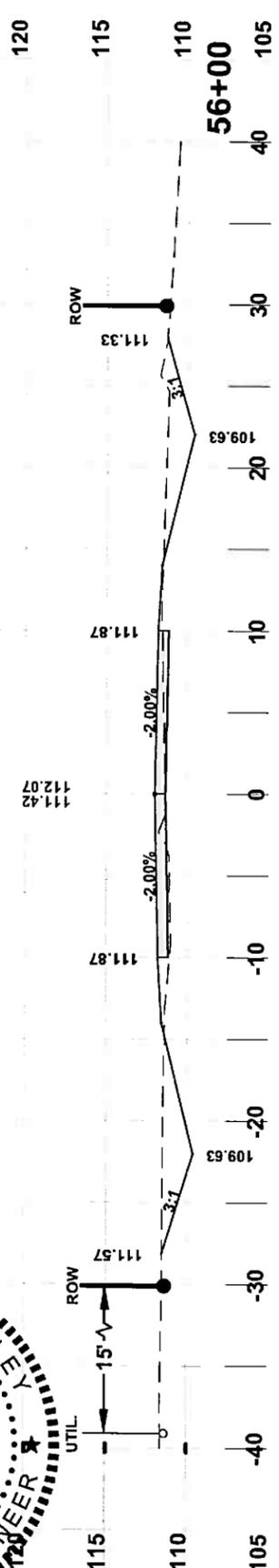
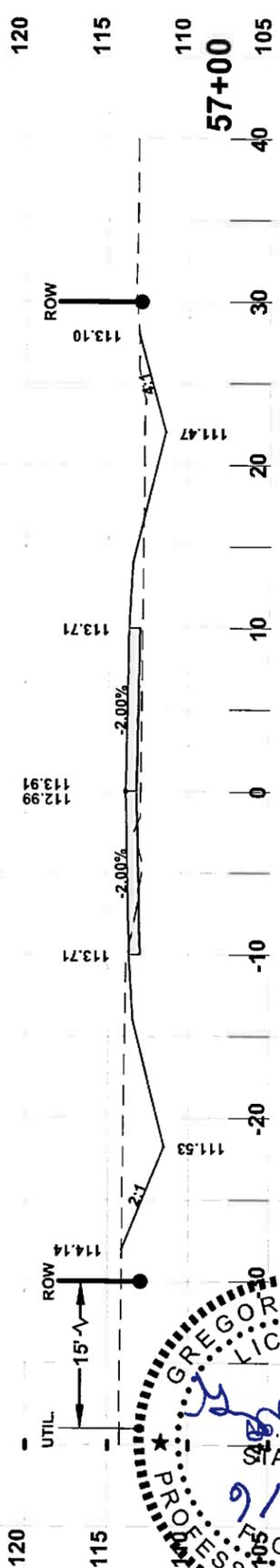
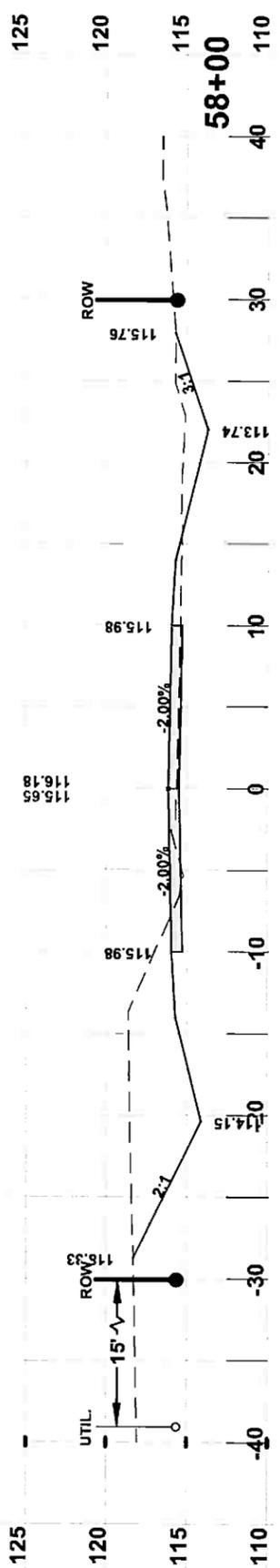
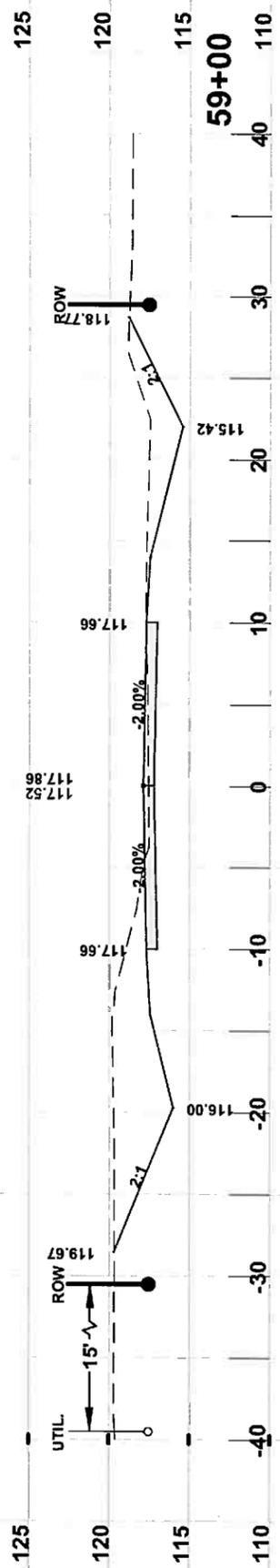
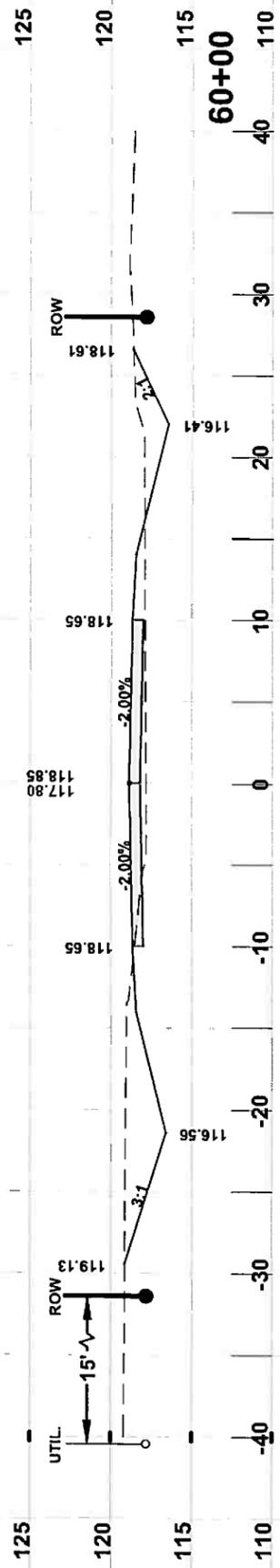
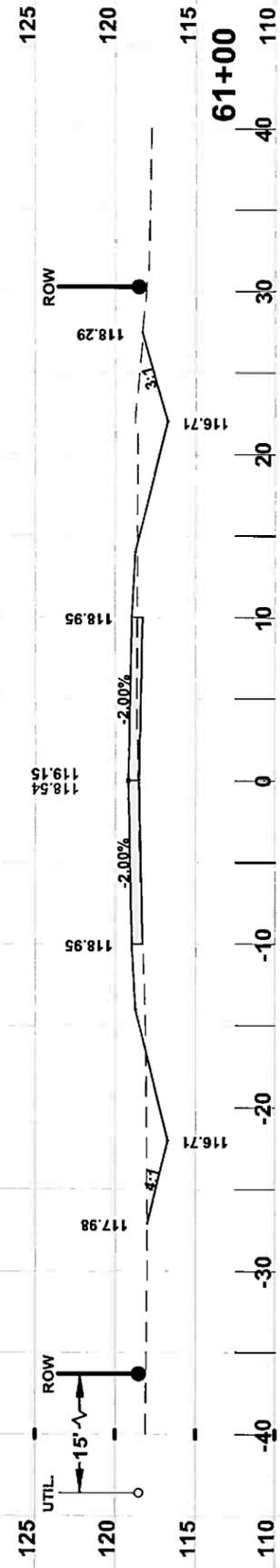
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 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4874  
 Eng. Lic. 29011

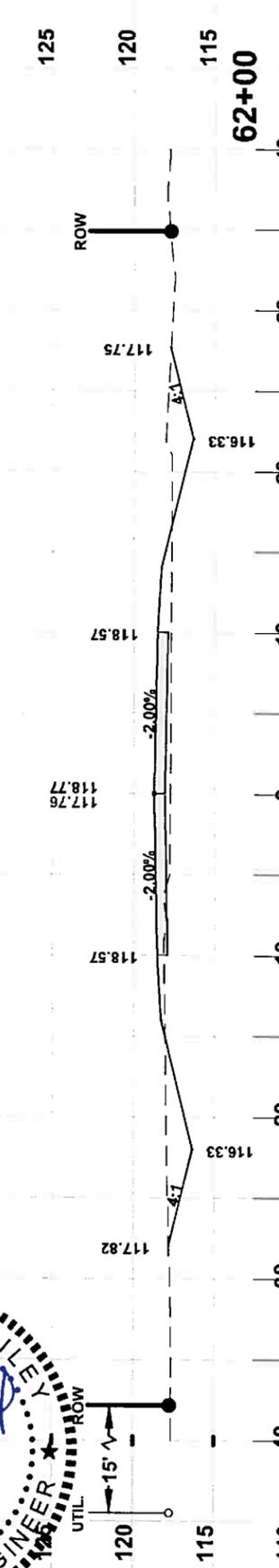
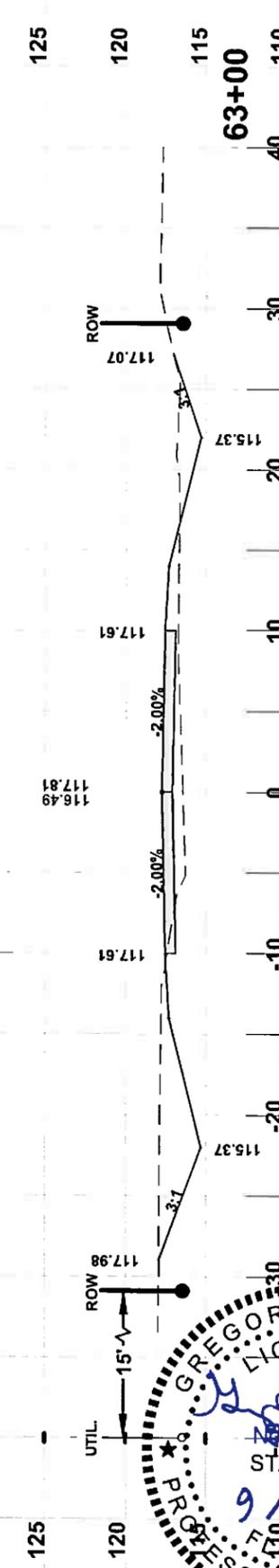
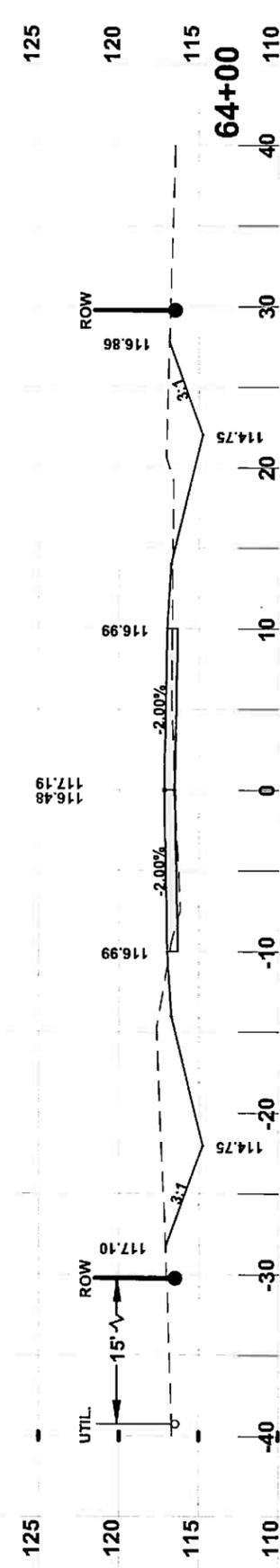
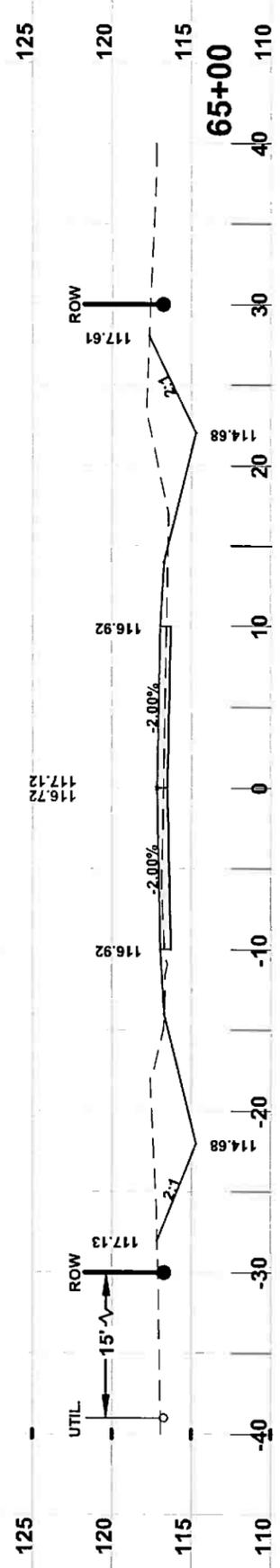
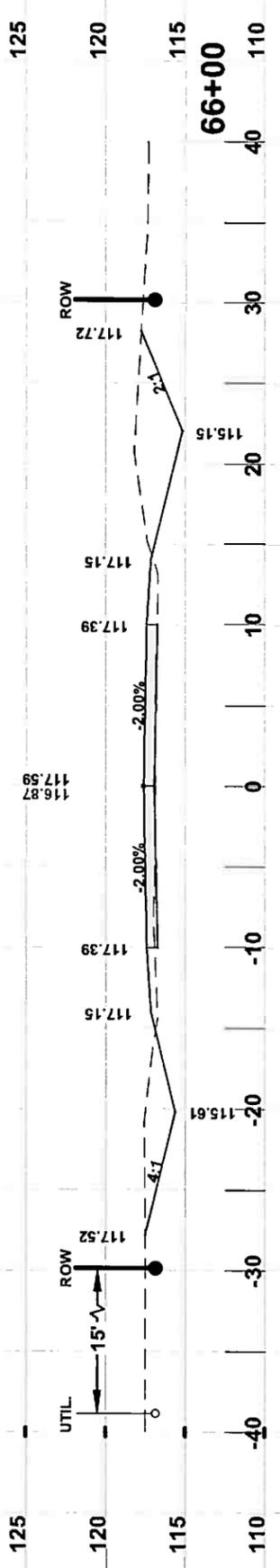
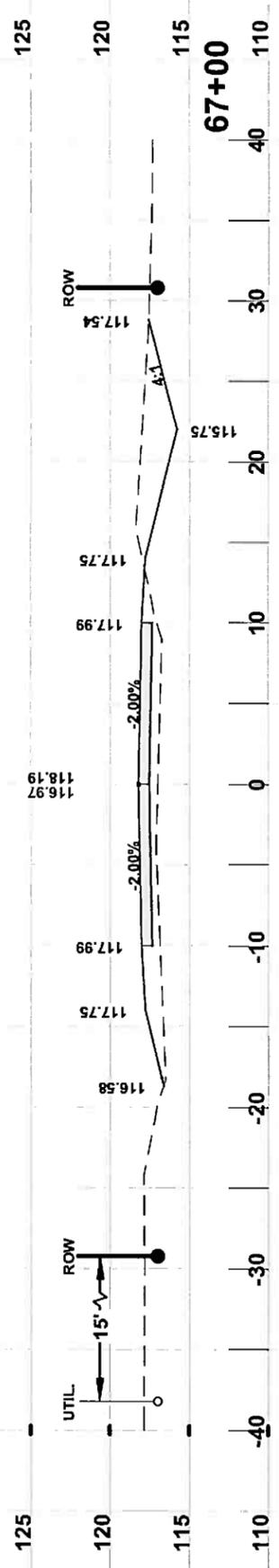


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DESIGNED BY:	RF
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CHECKED BY:	GB
DATE:	1/2014
SHEET NO.:	46
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 Lake City, FL 32025  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Ph. 386-752-4675  
 Fax. 386-752-4674  
 Eng. Lic. 29011



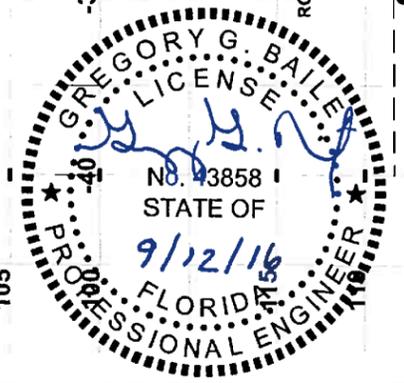
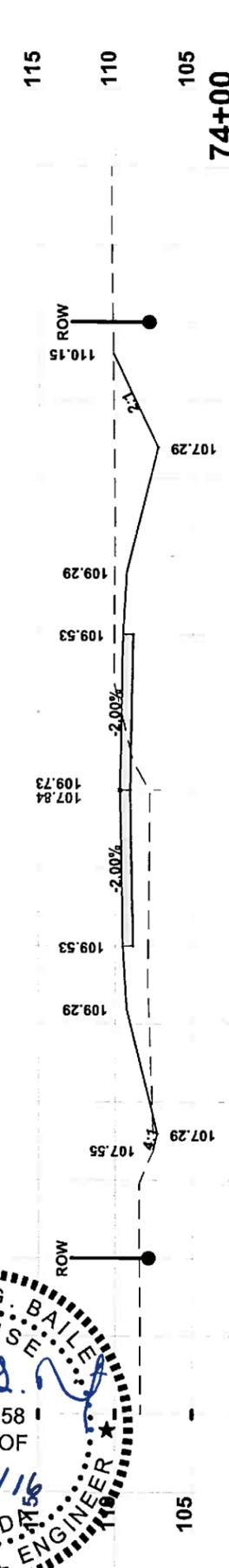
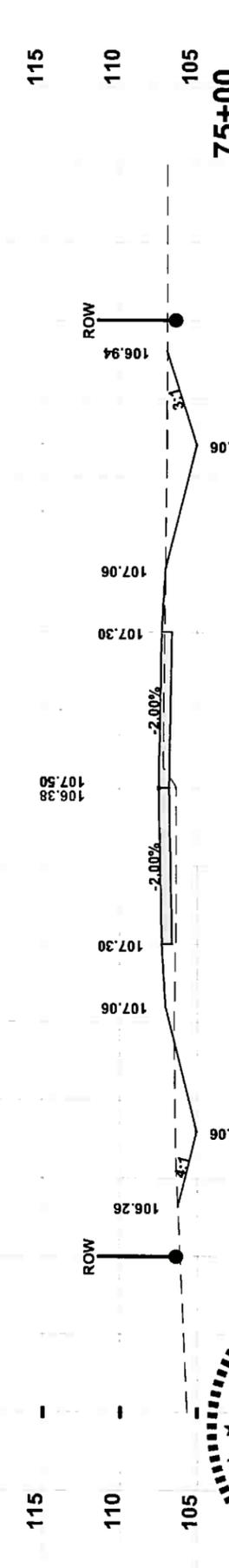
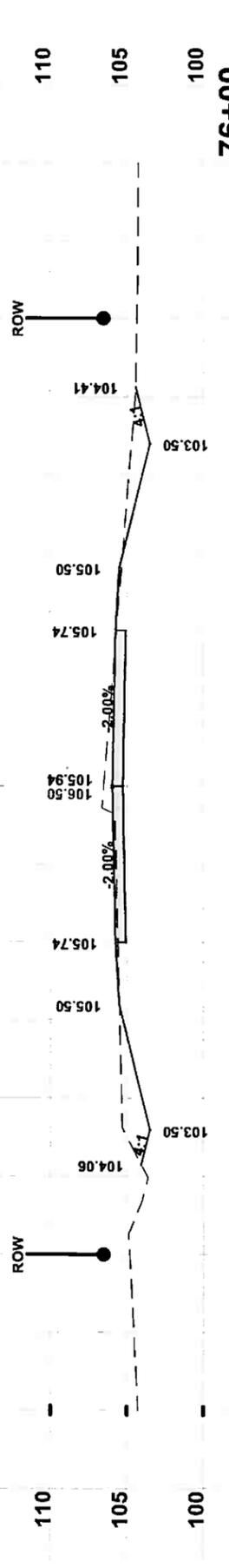
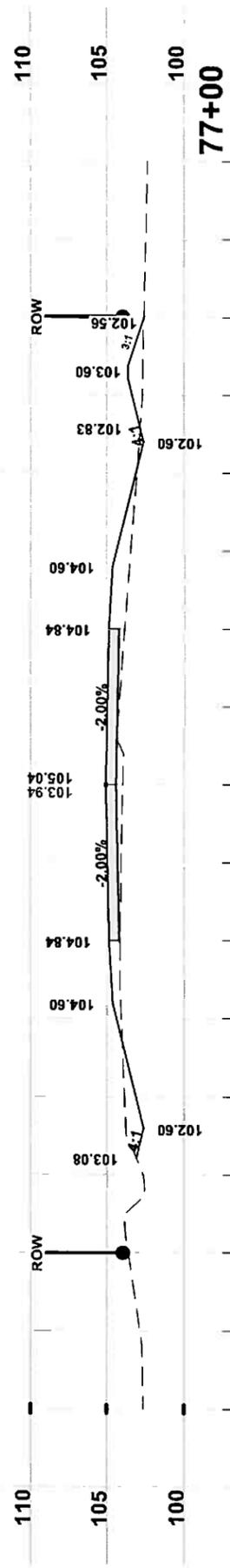
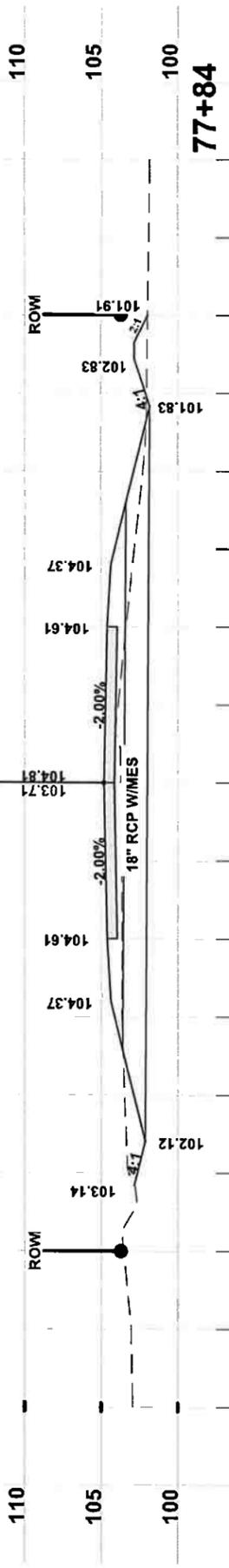
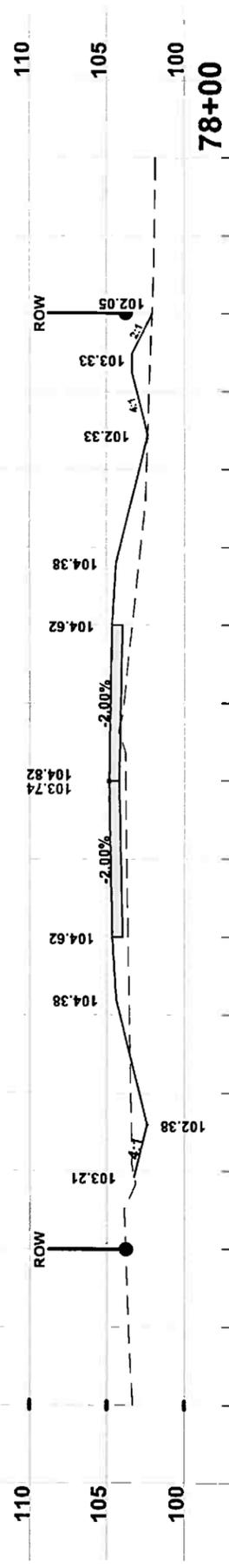
GREGORY G. BAILEY  
 LICENSE NO. 43858  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 9/1/16

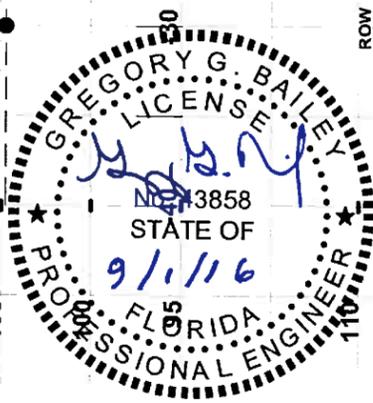
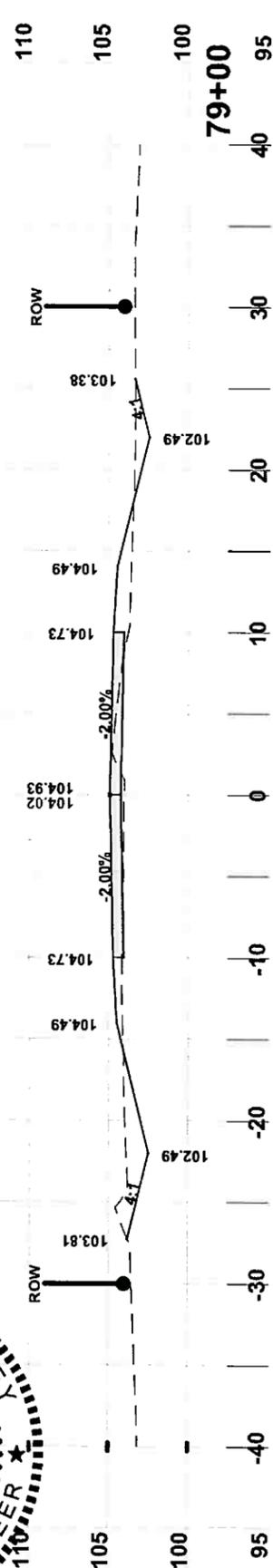
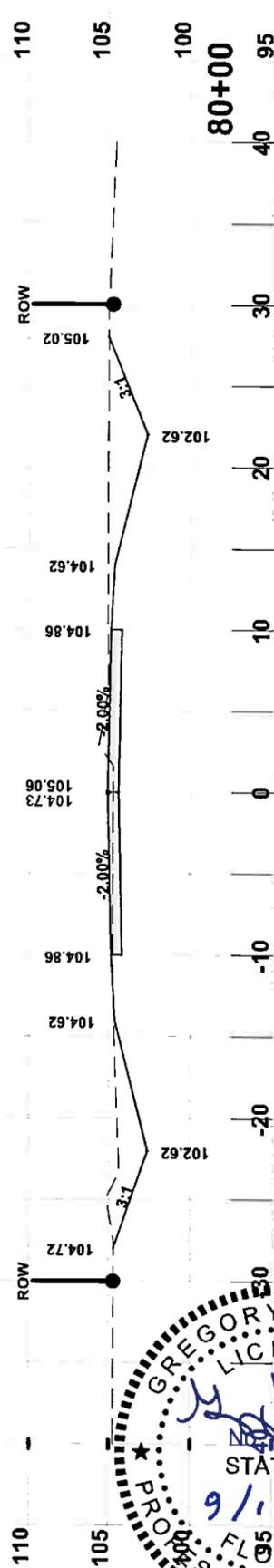
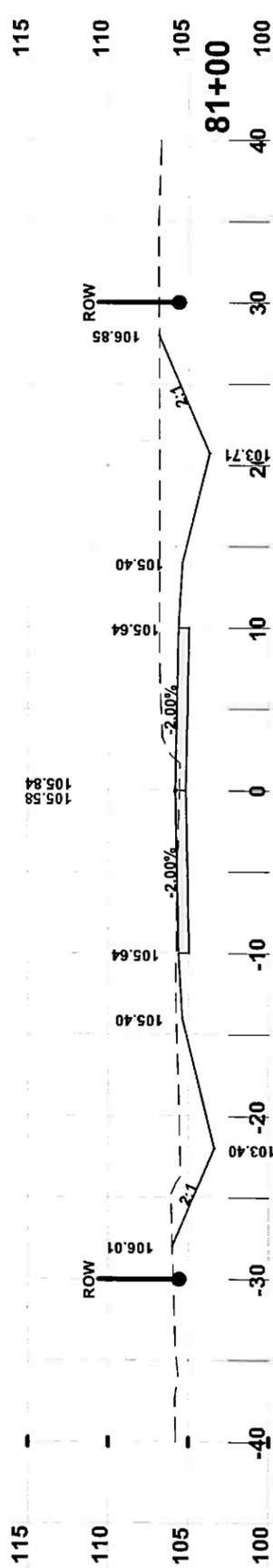
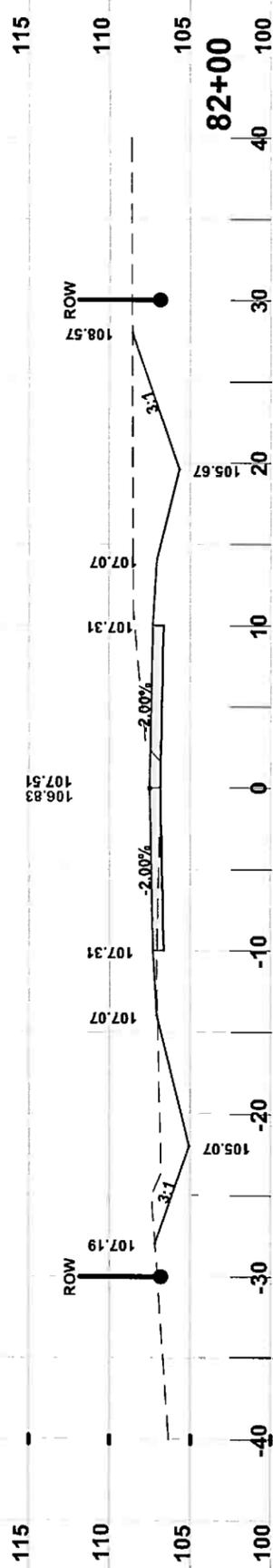
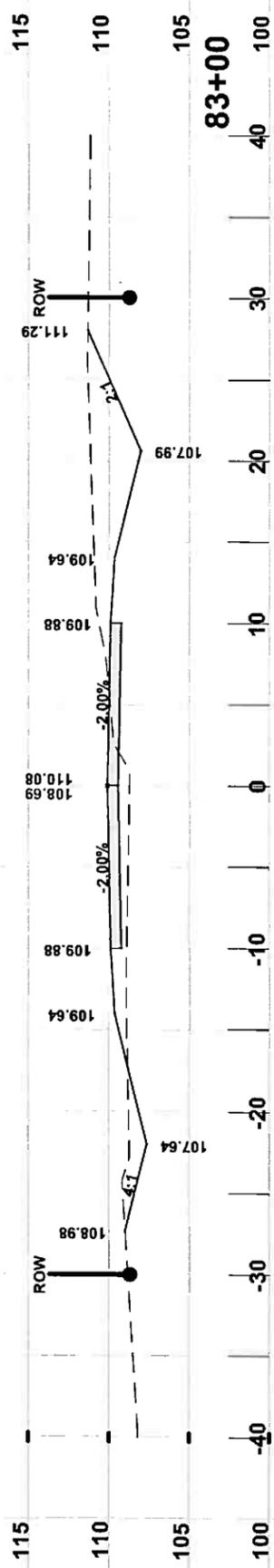
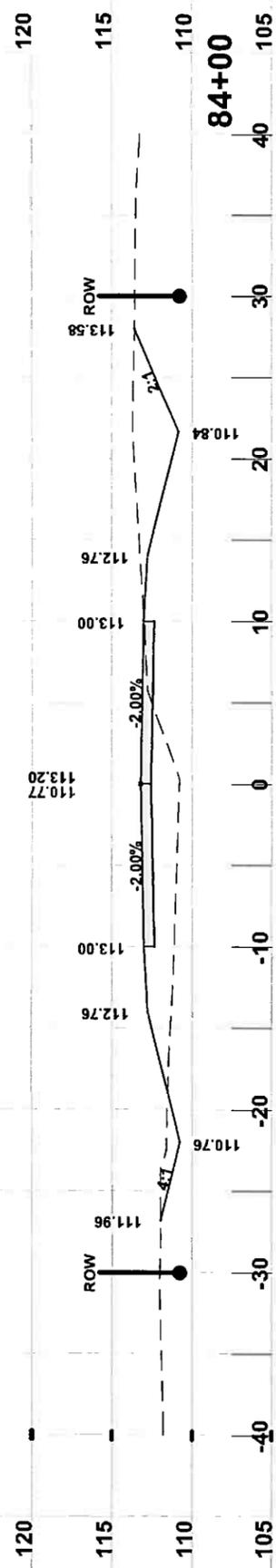
**CROSS SECTIONS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

  
 North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Ph: 877-335-1525  
 Fax: 386-752-4674  
 Tallahassee, FL 32316  
 Eng. Lic. 28011

JOB NUMBER:	L130715CCB	REVISIONS:	
DESIGNED BY:	RF	CHECKED BY:	GB
DATE:	1/2014	SIGNATURE & SEAL:	
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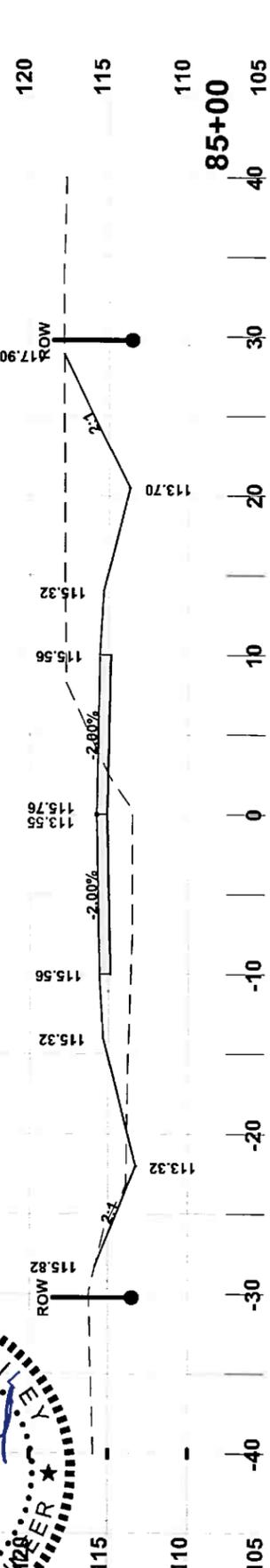
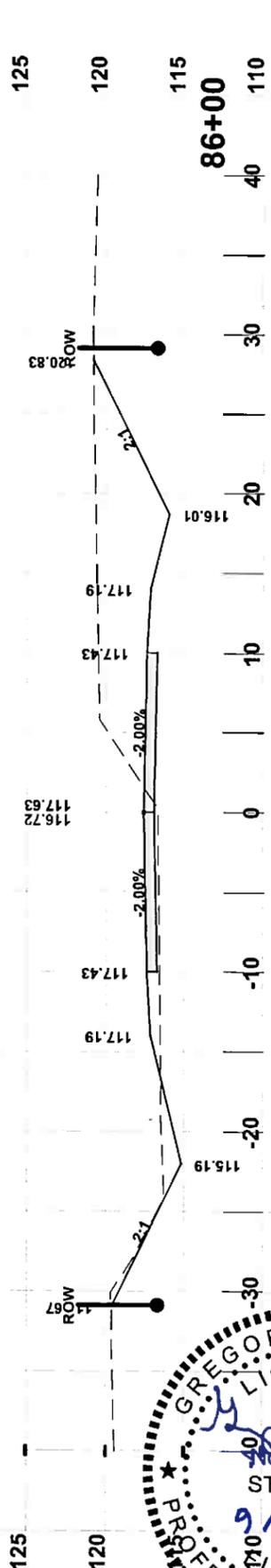
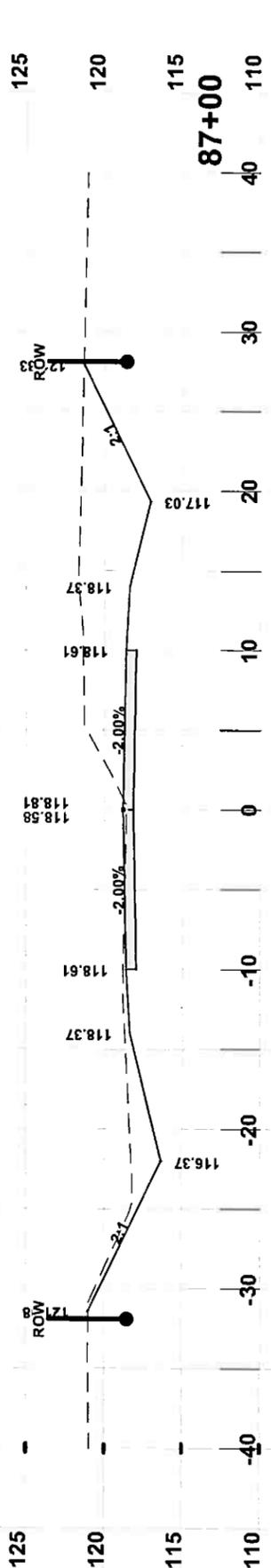
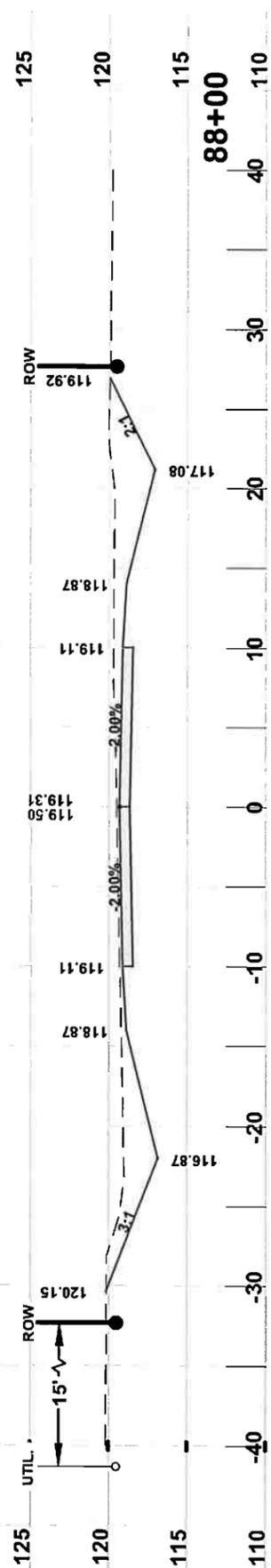
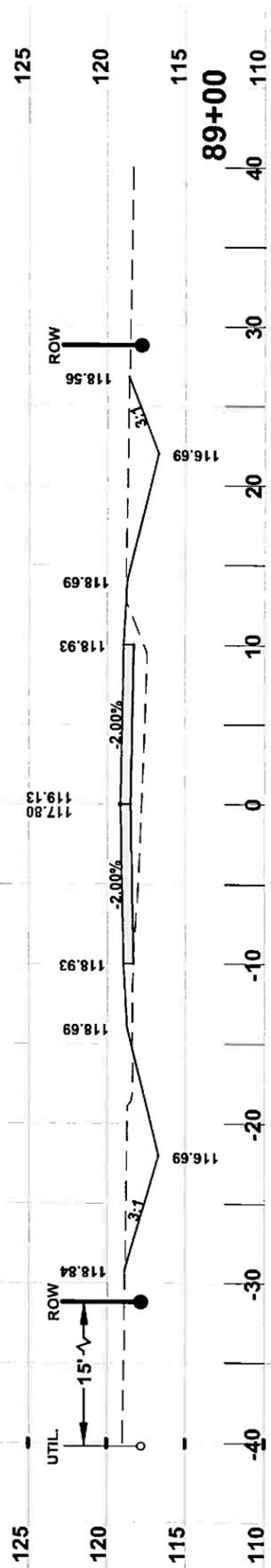
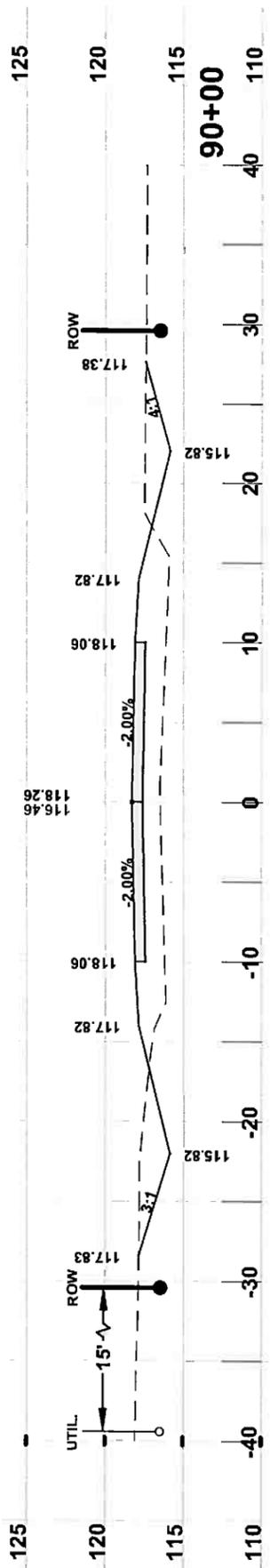
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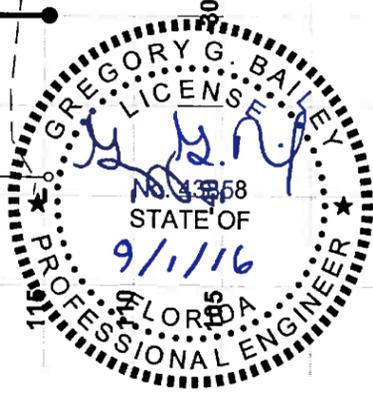
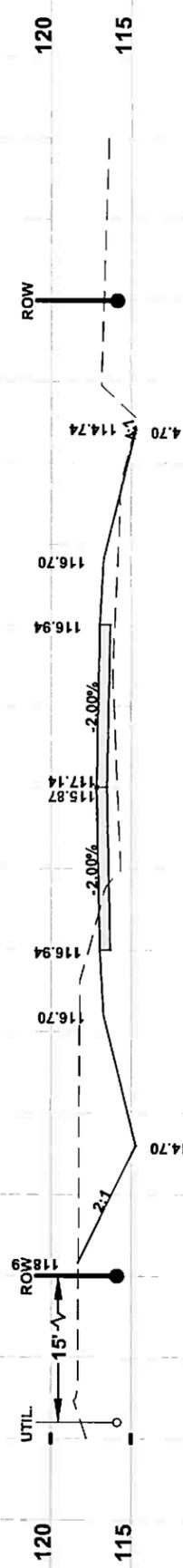
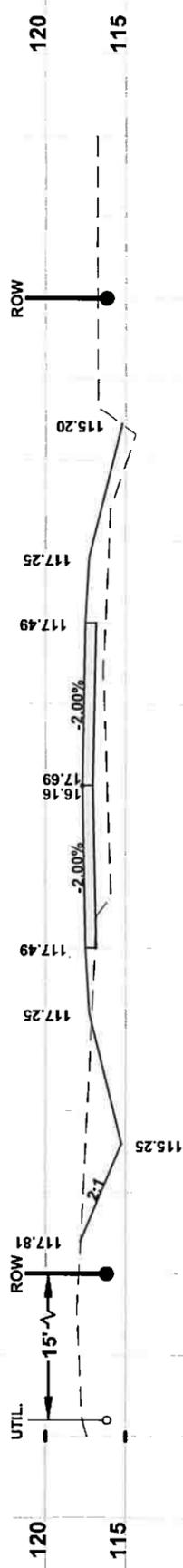
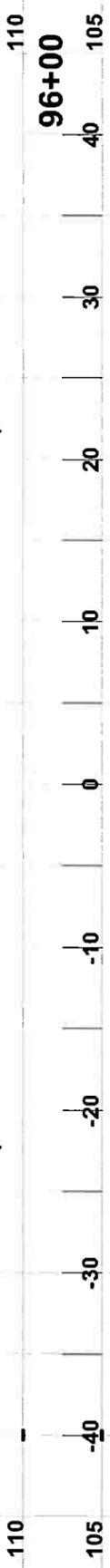
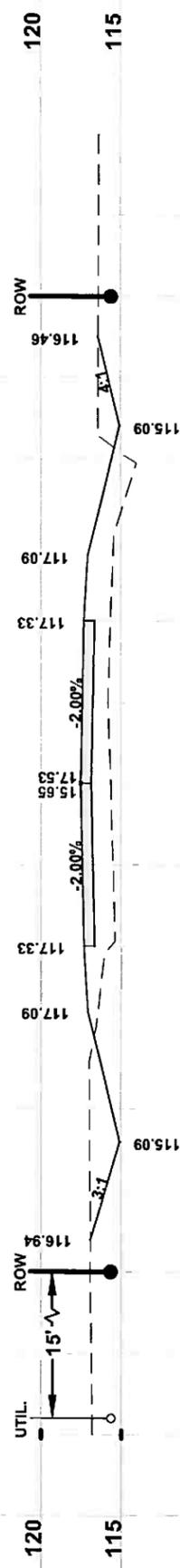
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 DESIGNED BY: RF  
 DRAFTED BY: RF  
 CHECKED BY: GB  
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REVISIONS:

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 Lake City, FL 32025  
 Tallahassee, FL 32318  
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 Fax. 386-752-4674  
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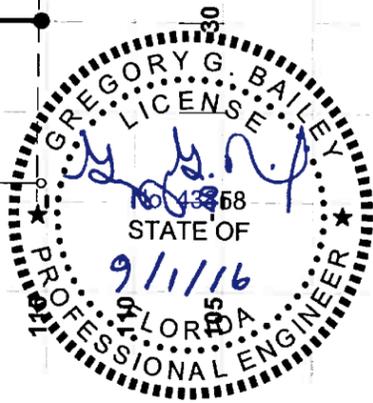
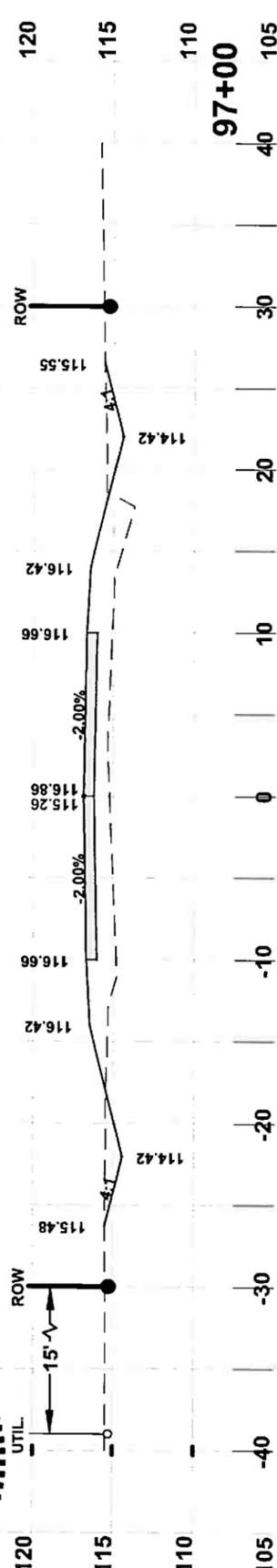
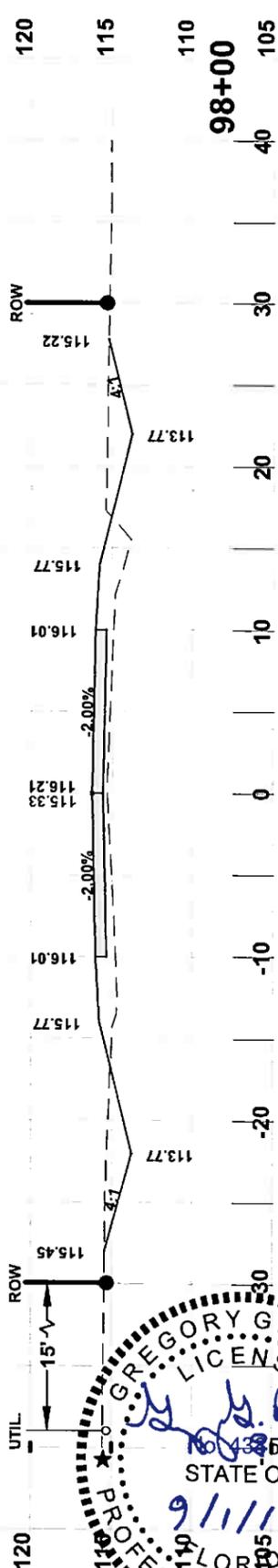
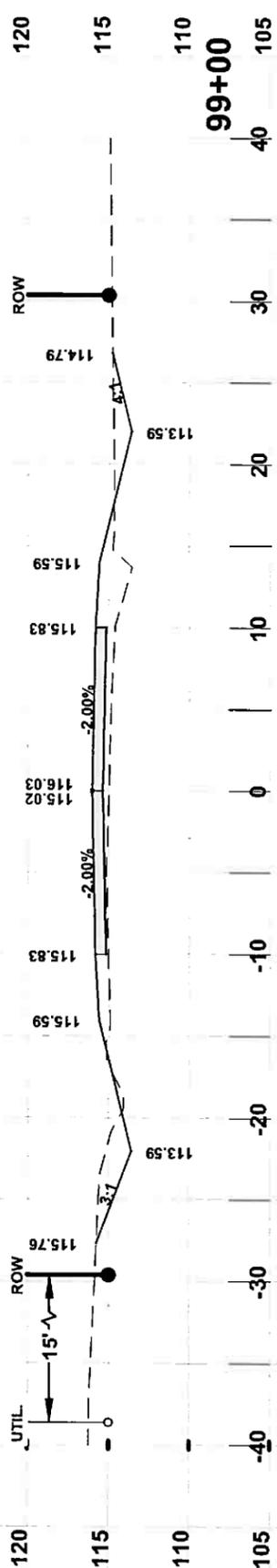
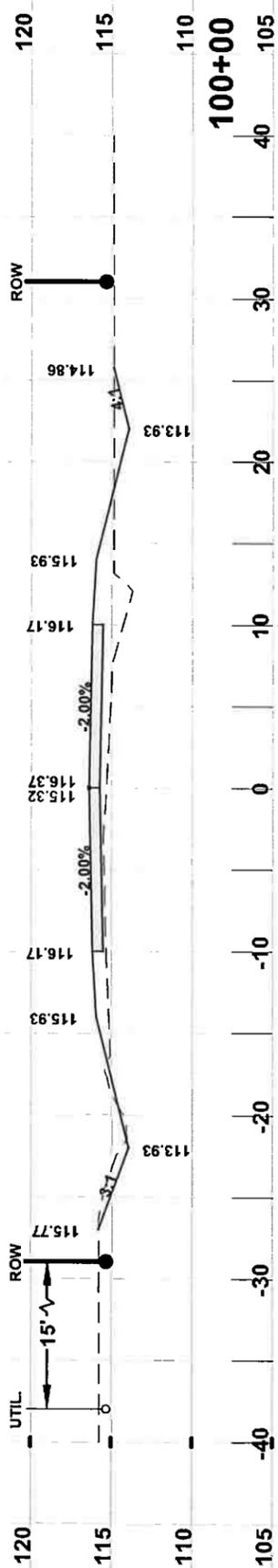
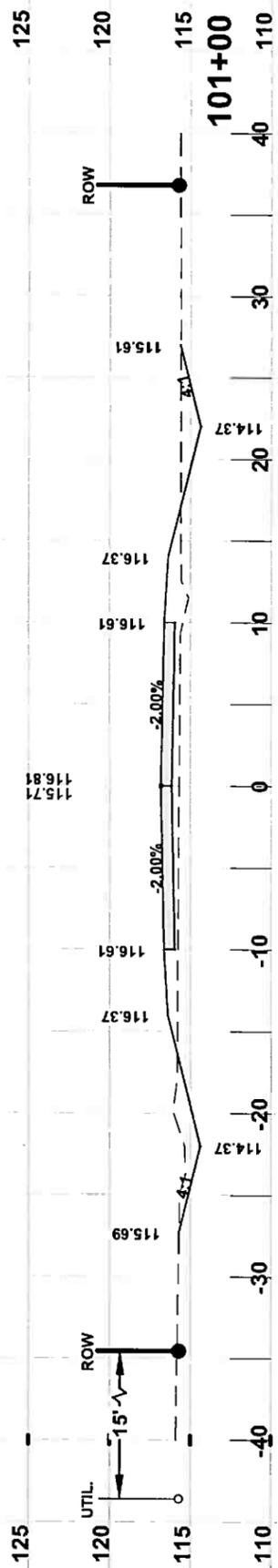
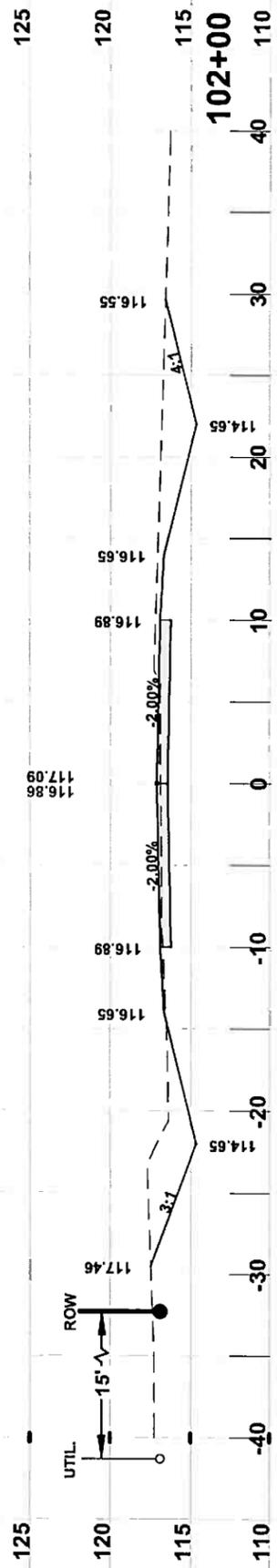


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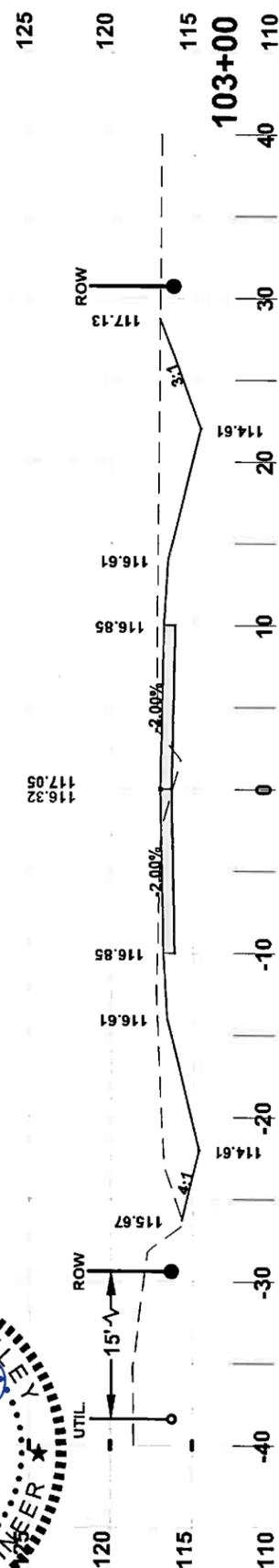
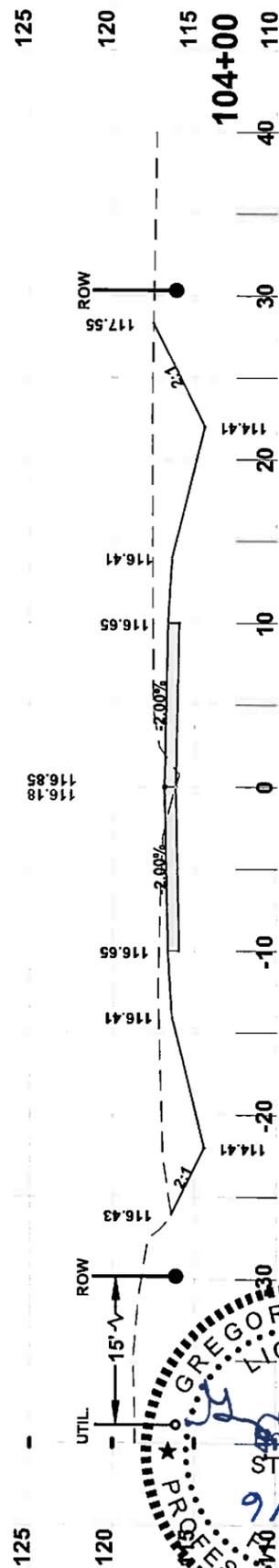
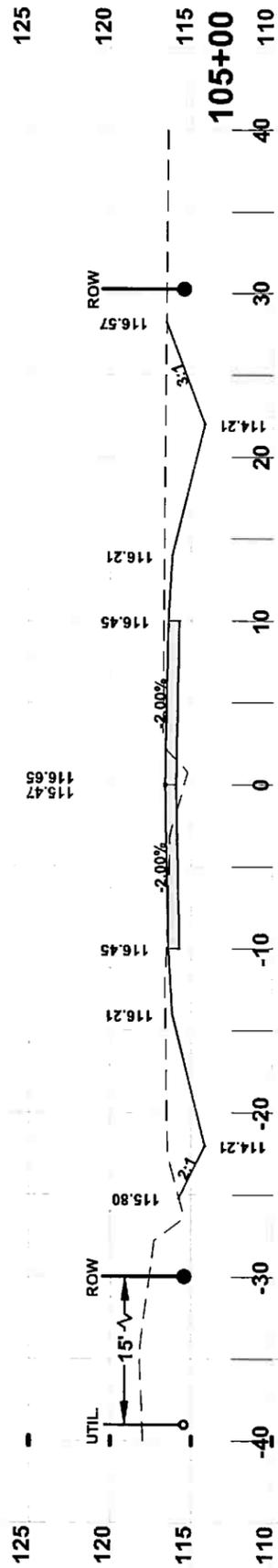
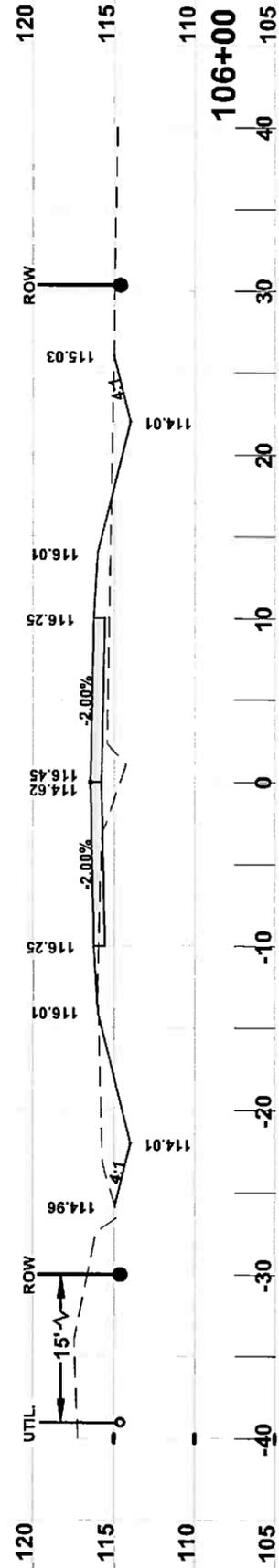
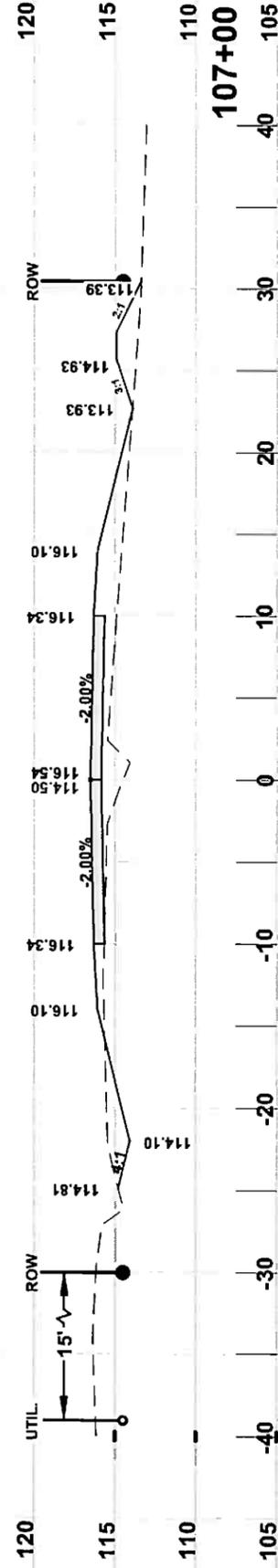
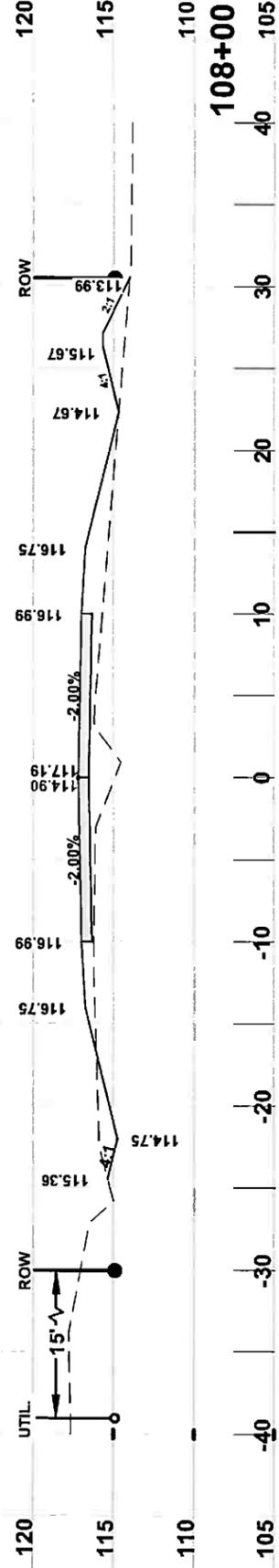
**CROSS SECTIONS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

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 Tallahassee, FL 32318  
 Ph. 877-335-1525  
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 Fax. 386-752-4874  
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PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 LICENSE NO. 43858  
 GREGORY G. BAILEY  
 9/12/16

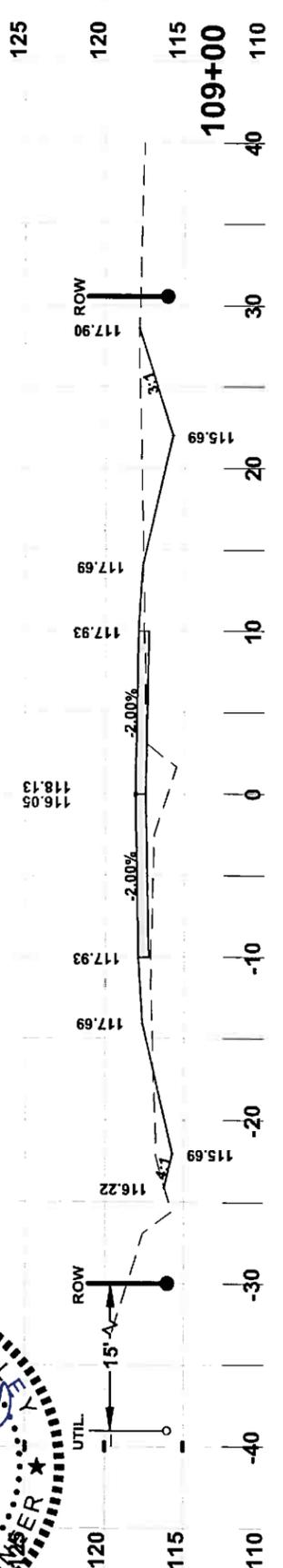
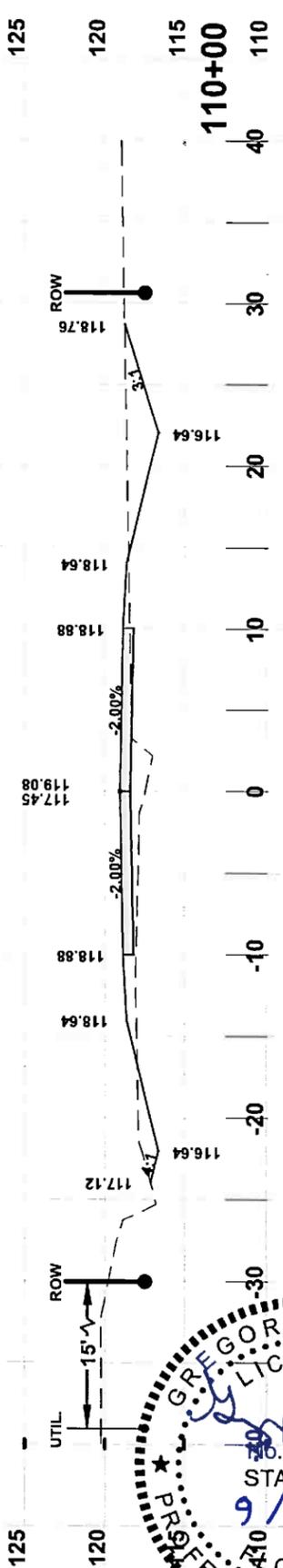
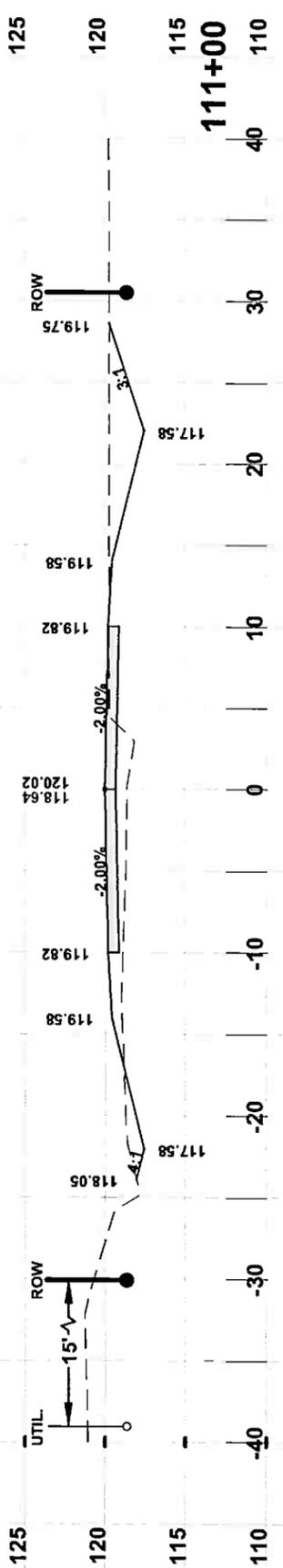
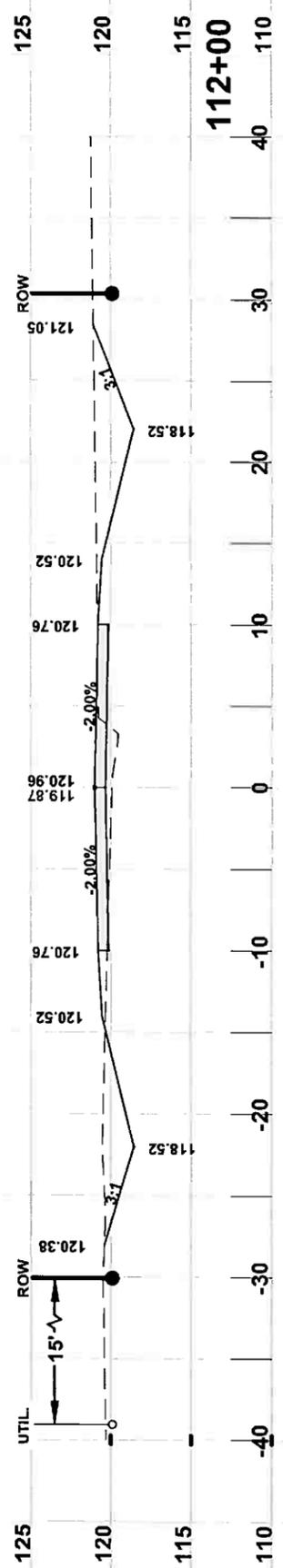
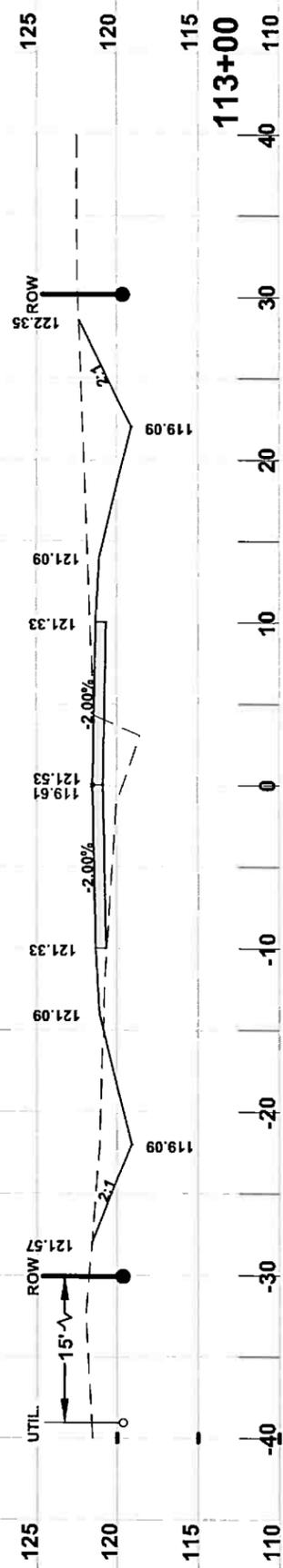
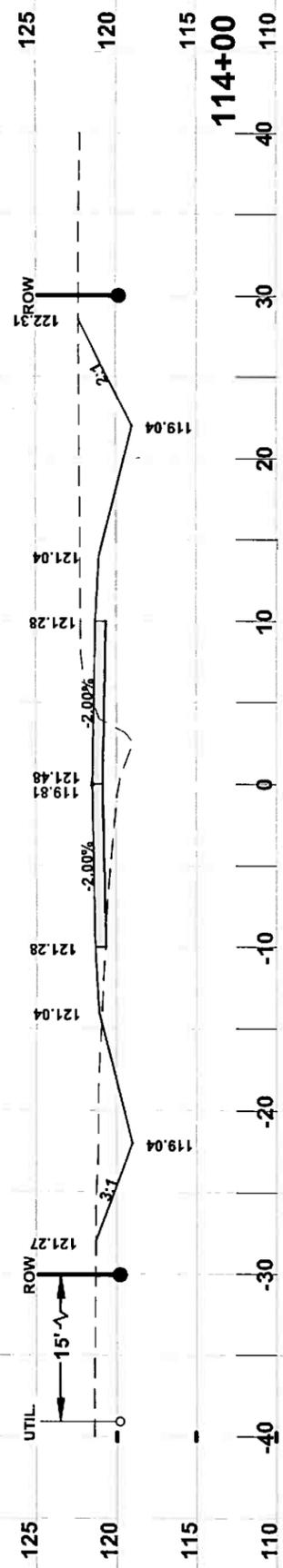
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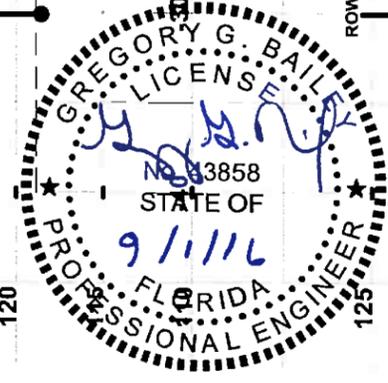
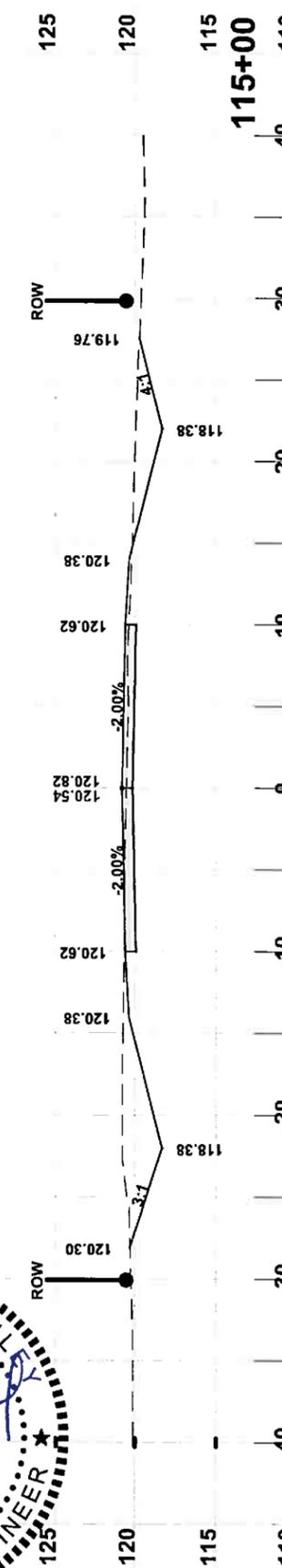
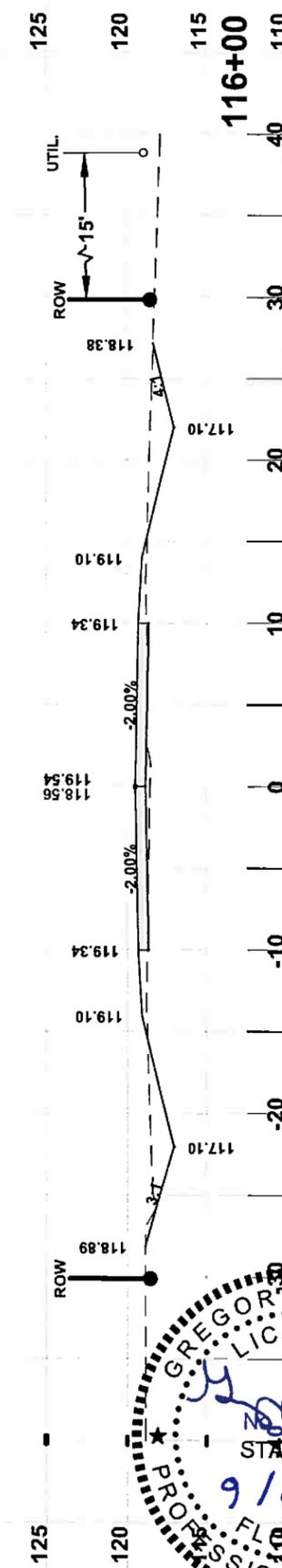
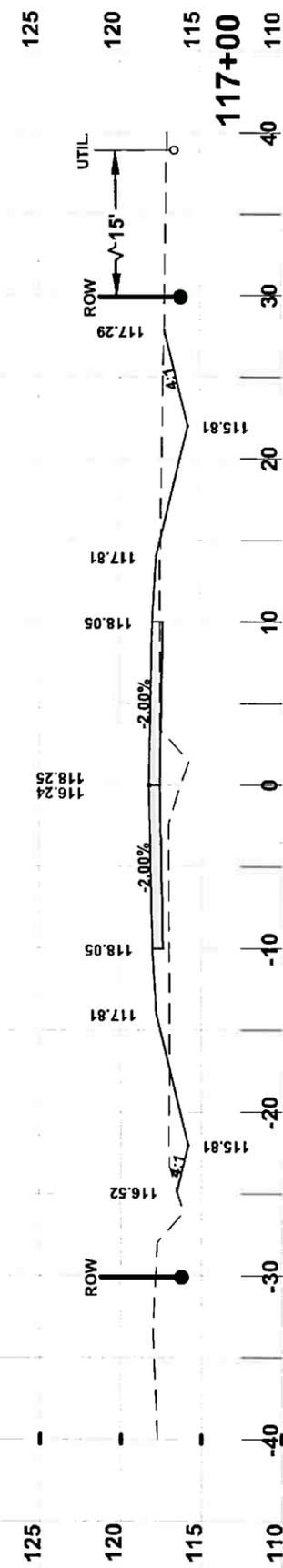
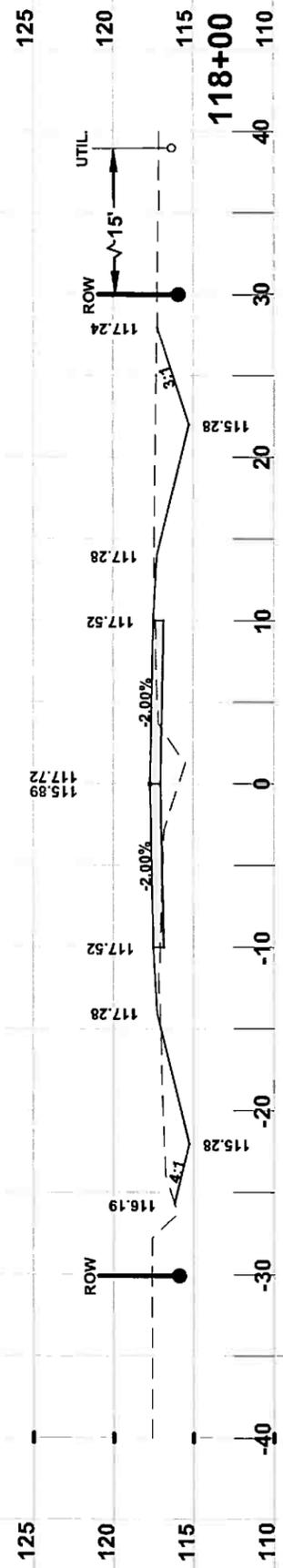
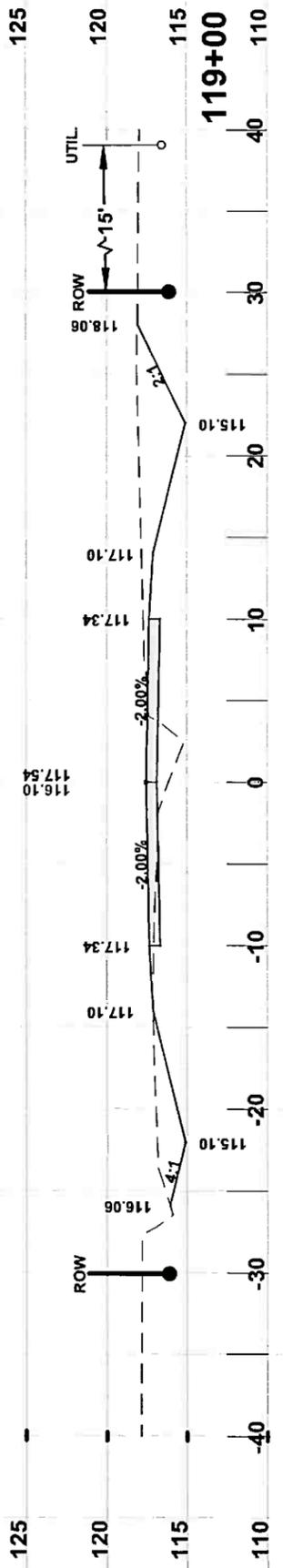
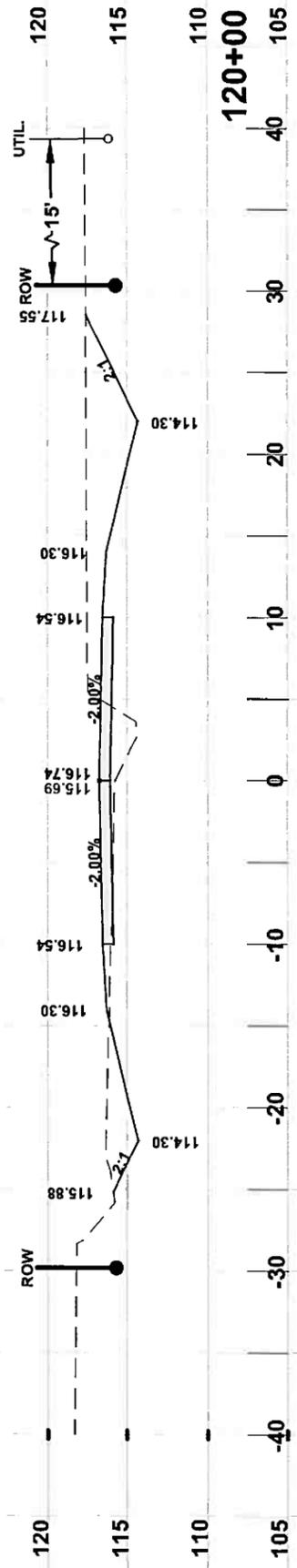


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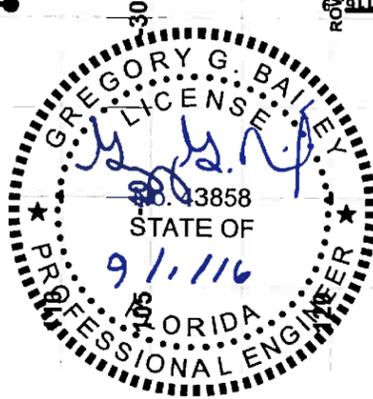
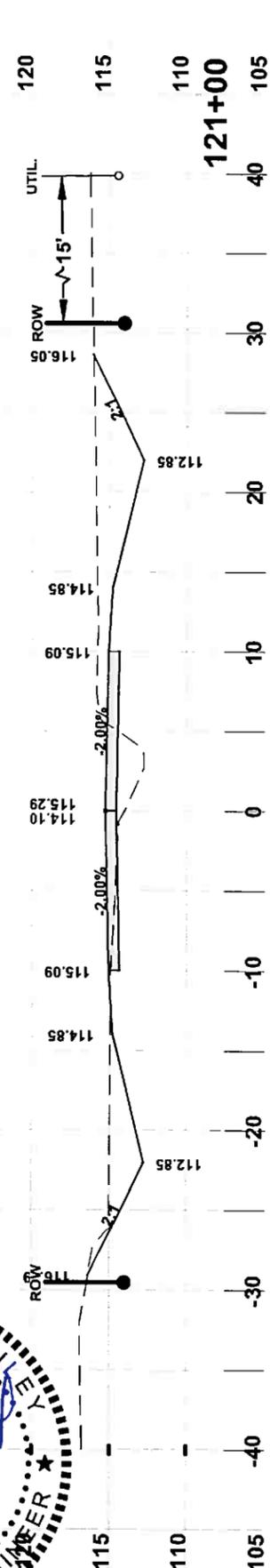
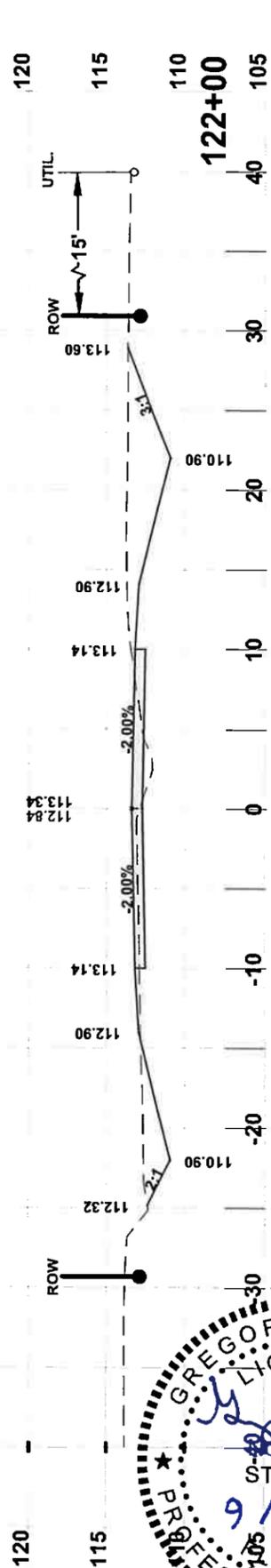
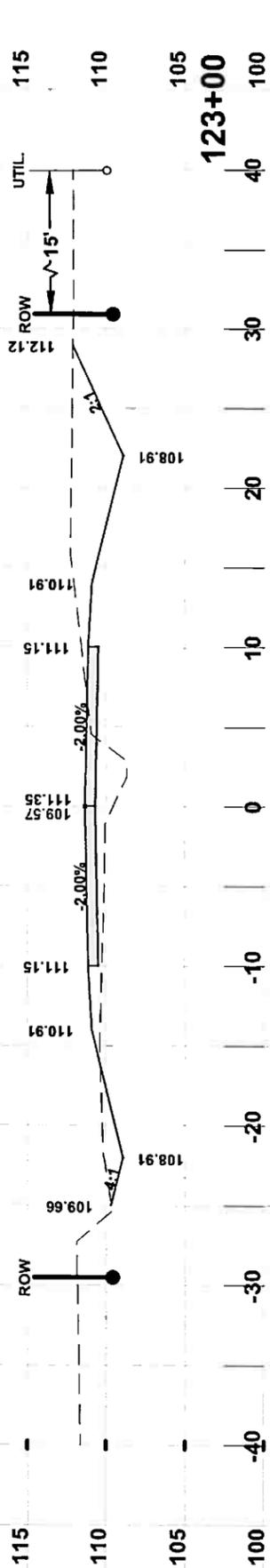
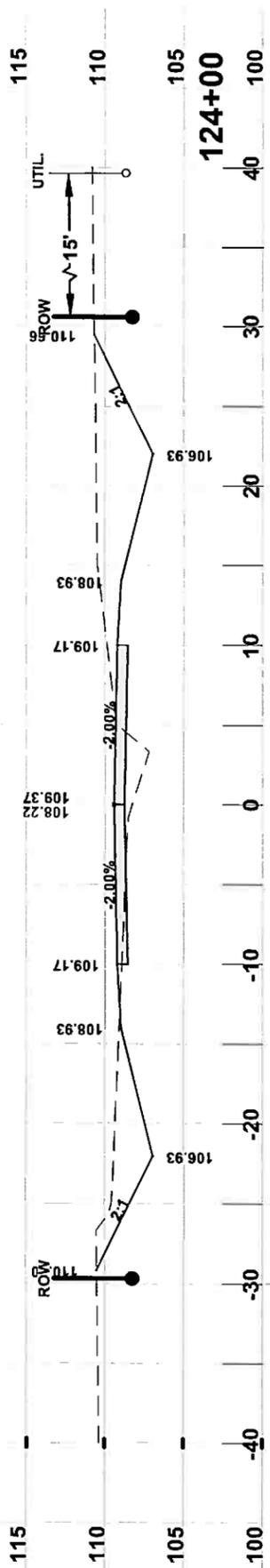
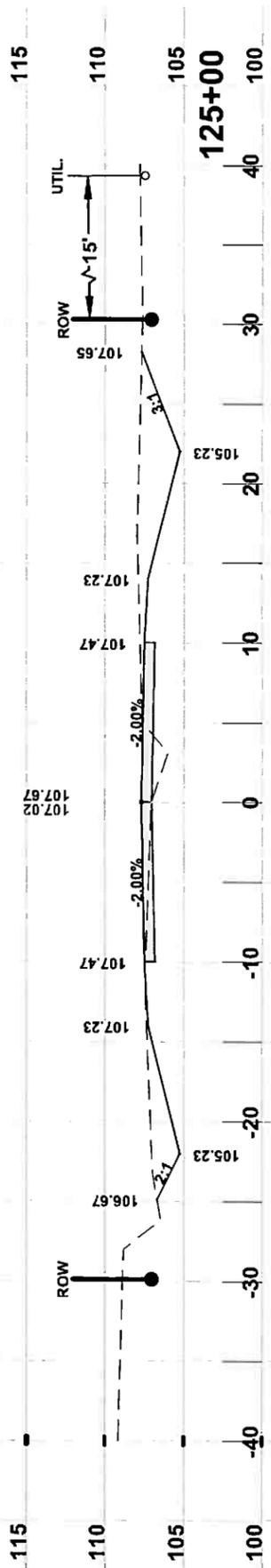
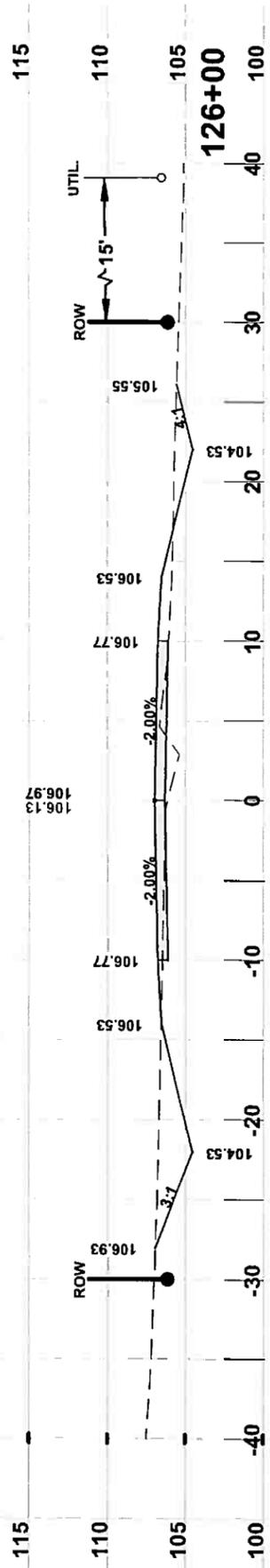


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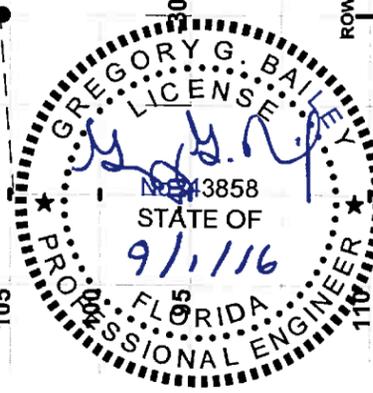
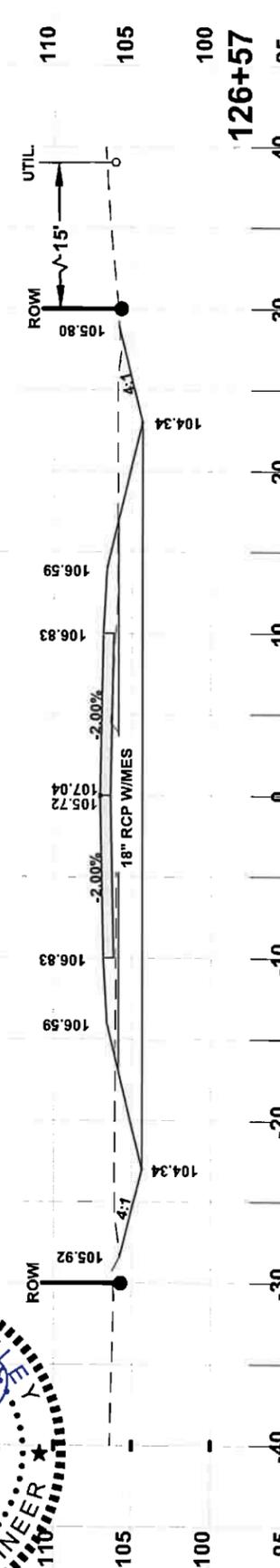
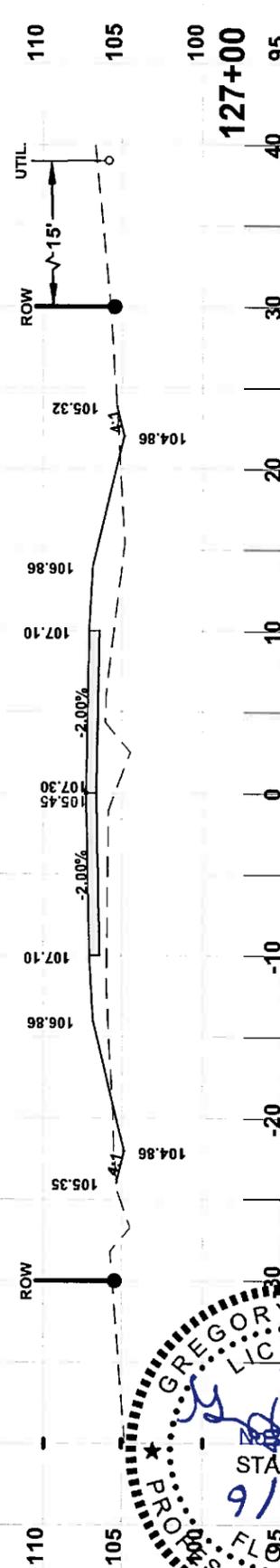
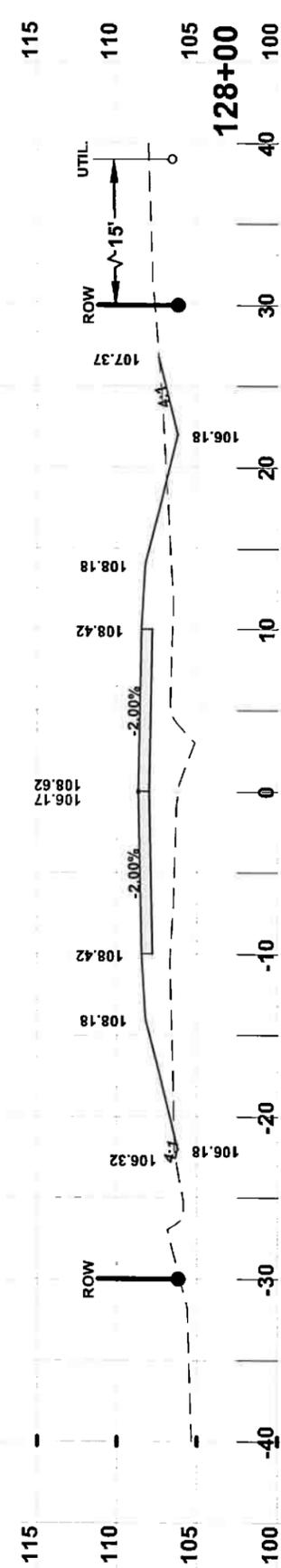
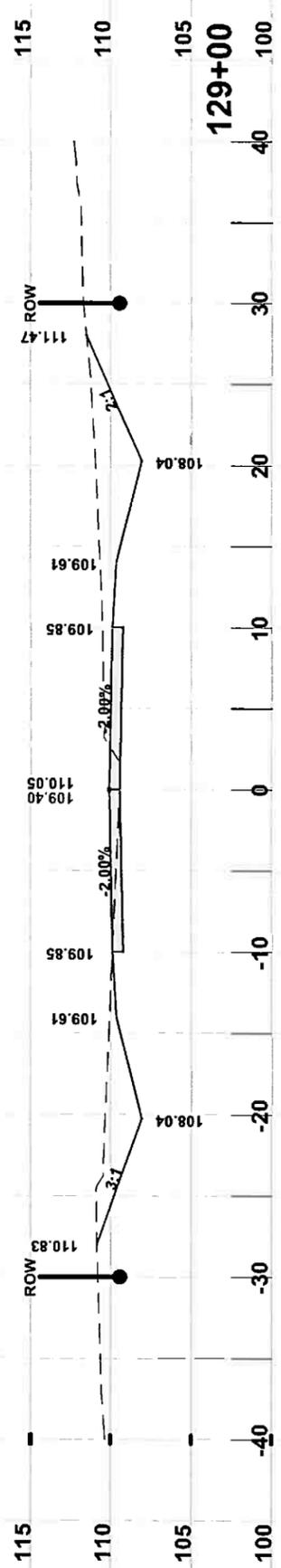
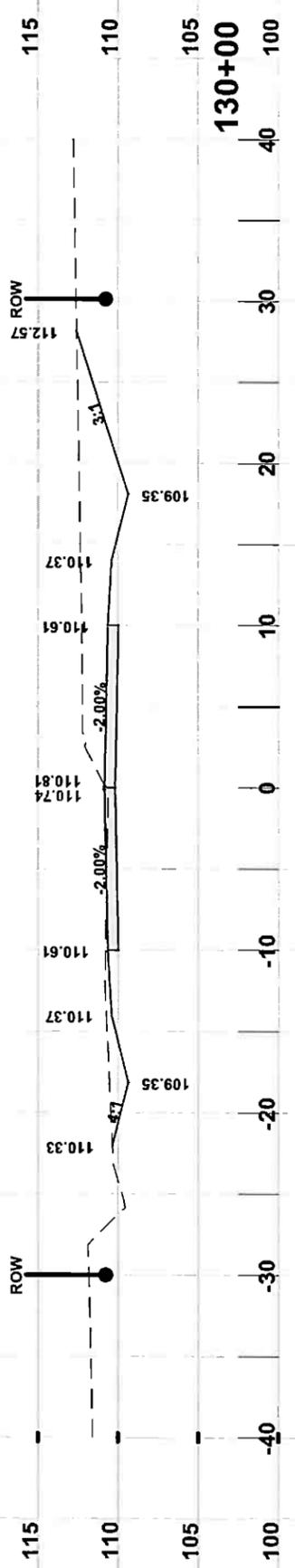
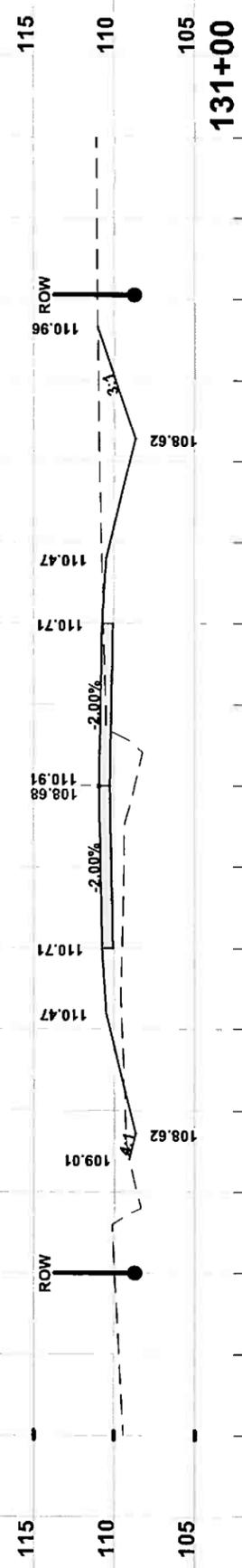
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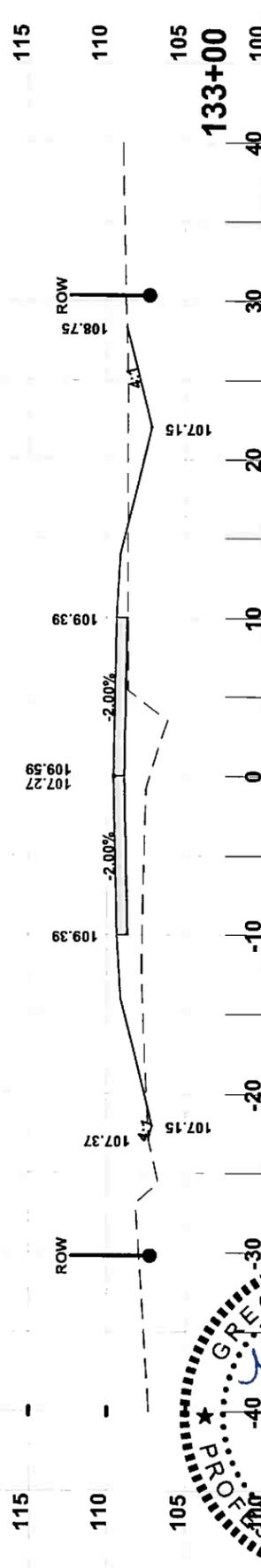
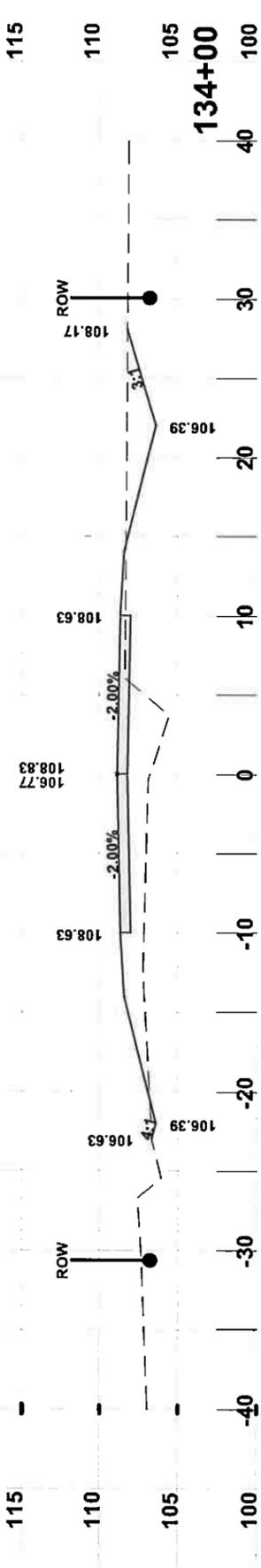
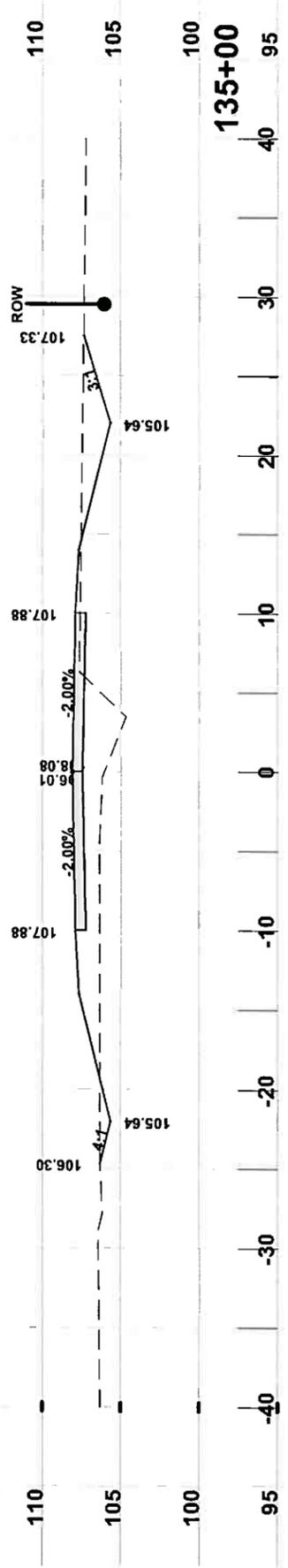
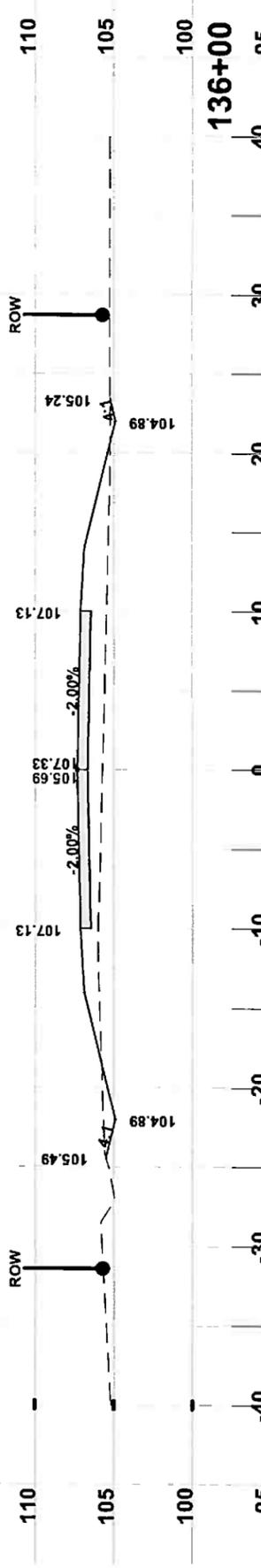
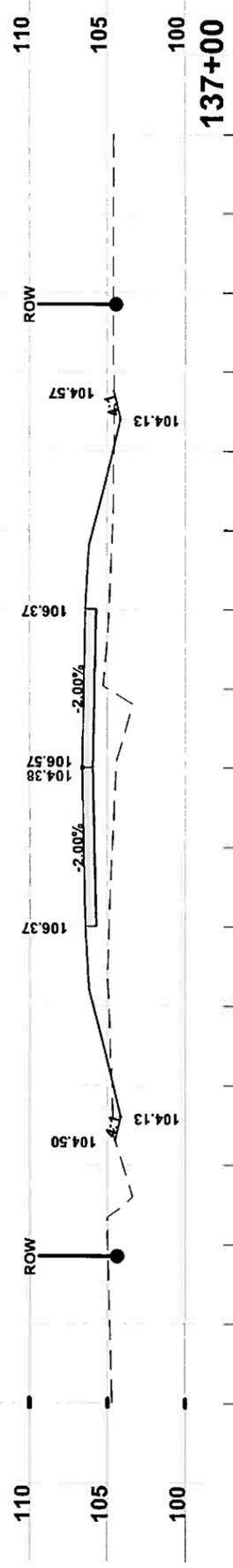
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**CROSS SECTIONS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

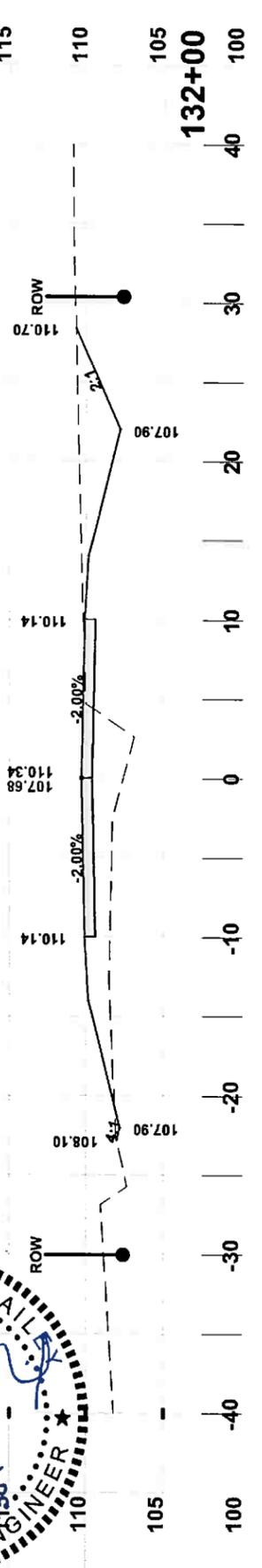
North Florida Professional Services, Inc.  
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 Lake City, FL 32025  
 Ph. 386-752-4675  
 Fax. 386-752-4674  
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PROFESSIONAL ENGINEER STATE OF FLORIDA LICENSE NO. 3858 9/1/16		CROSS SECTIONS SW BRIM STREET COLUMBIA COUNTY, FLORIDA	
NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32025 PH. 877-335-1525 FAX. 386-752-4674 Eng. Lic. 20011		NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32025 PH. 877-335-1525 FAX. 386-752-4674 Eng. Lic. 20011	



**PROFESSIONAL ENGINEER**  
 STATE OF FLORIDA  
 No. 48858  
 GREGORY G. BAILLIE  
 LICENSE  
 9/12/16



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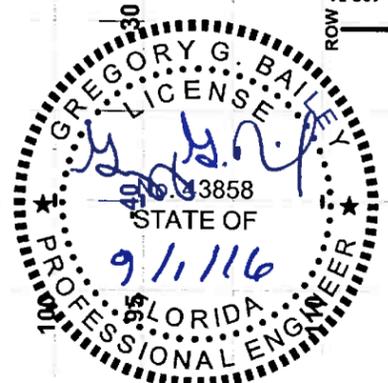
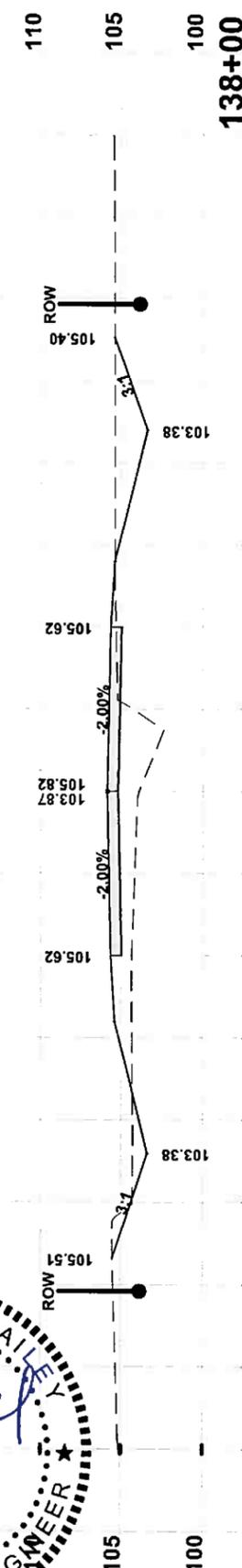
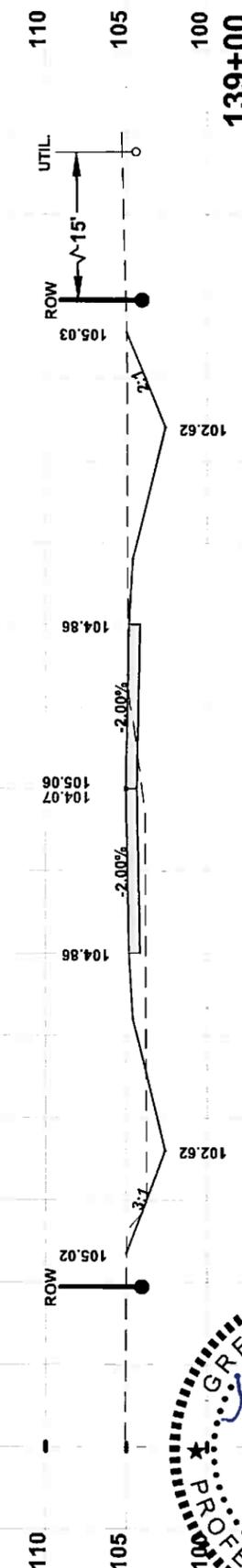
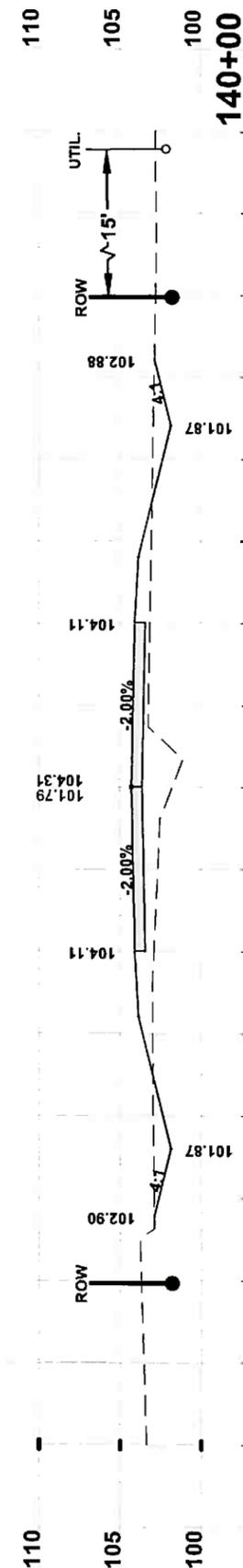
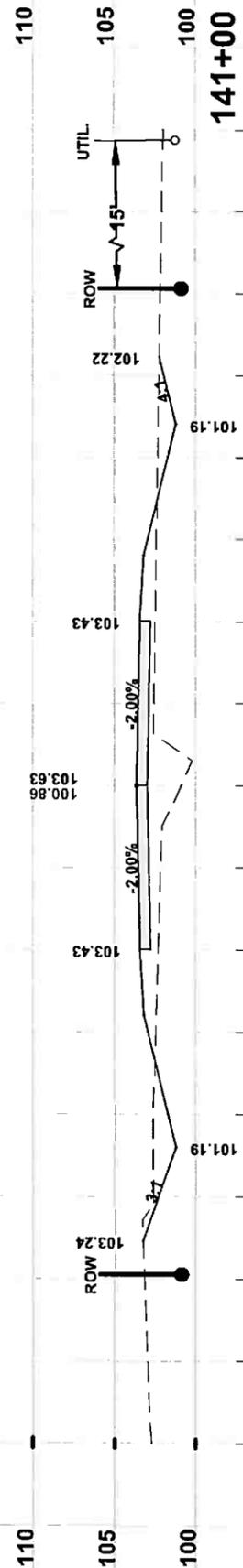
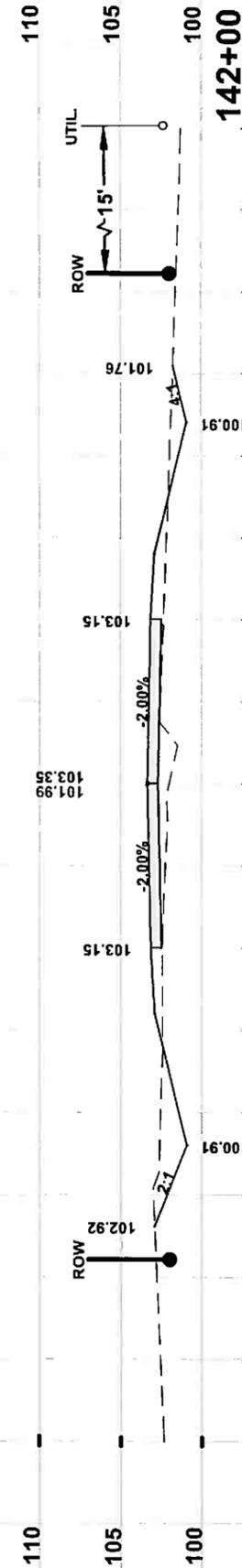
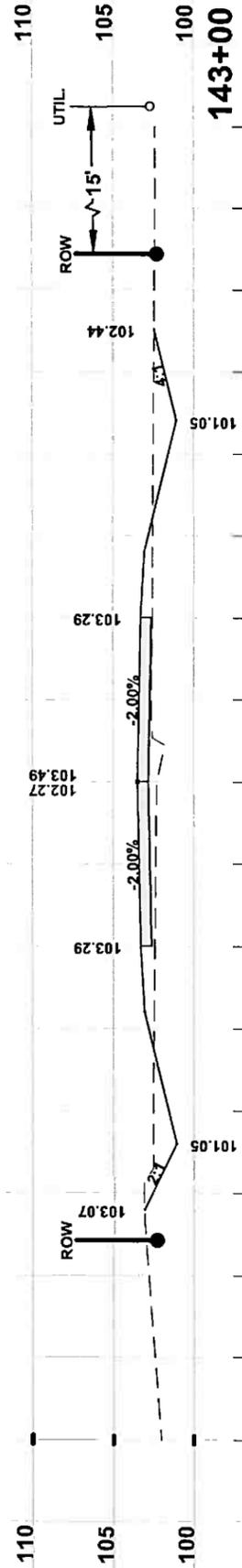
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 Fax. 386-752-4674  
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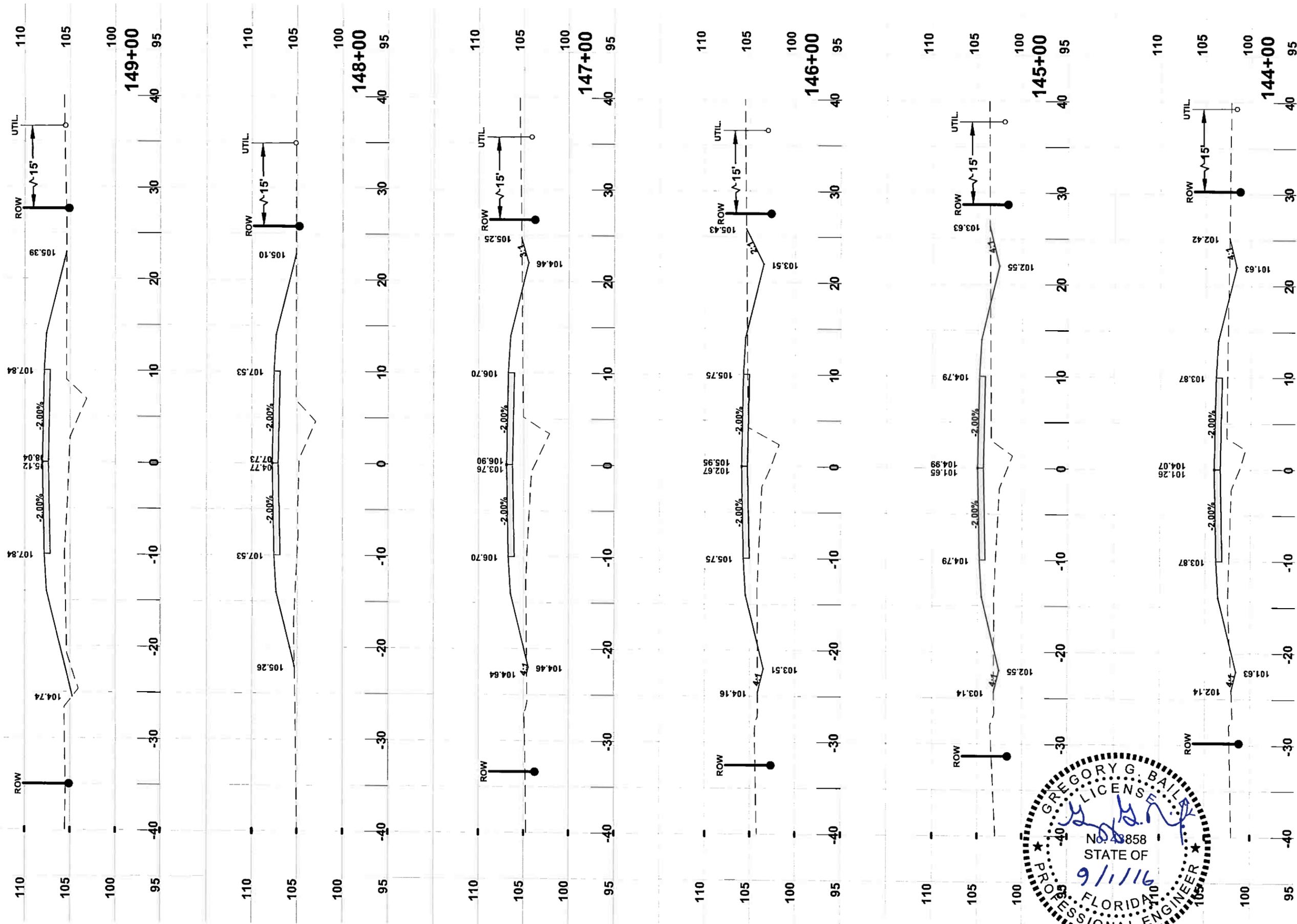
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 COLUMBIA COUNTY, FLORIDA

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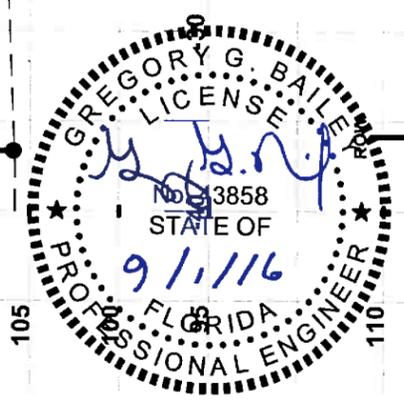
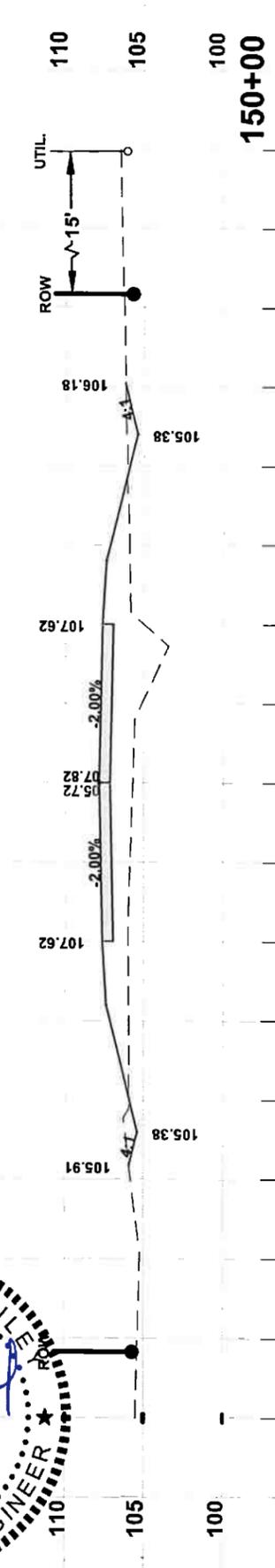
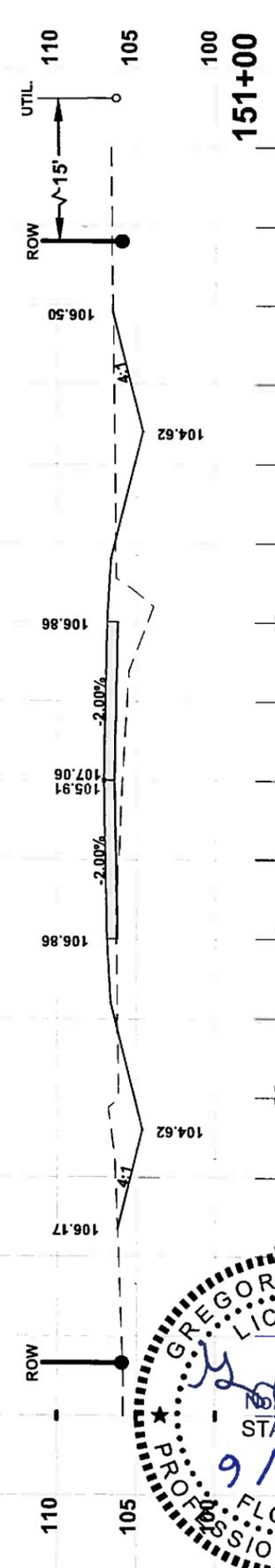
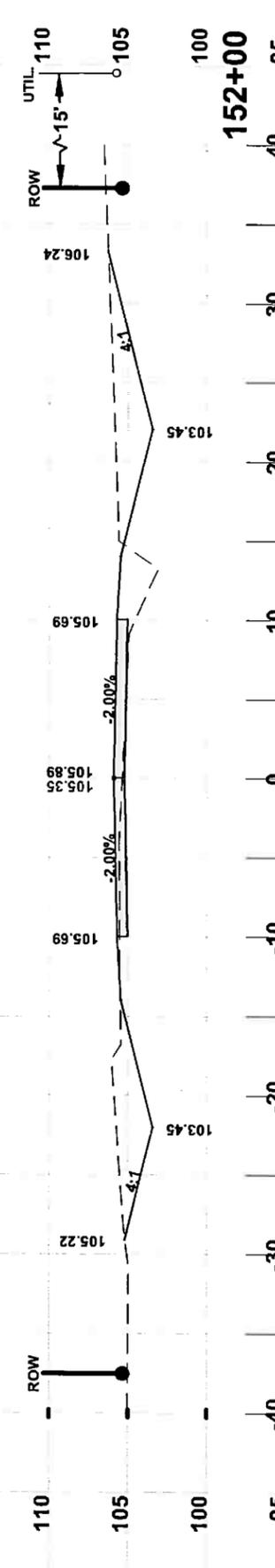
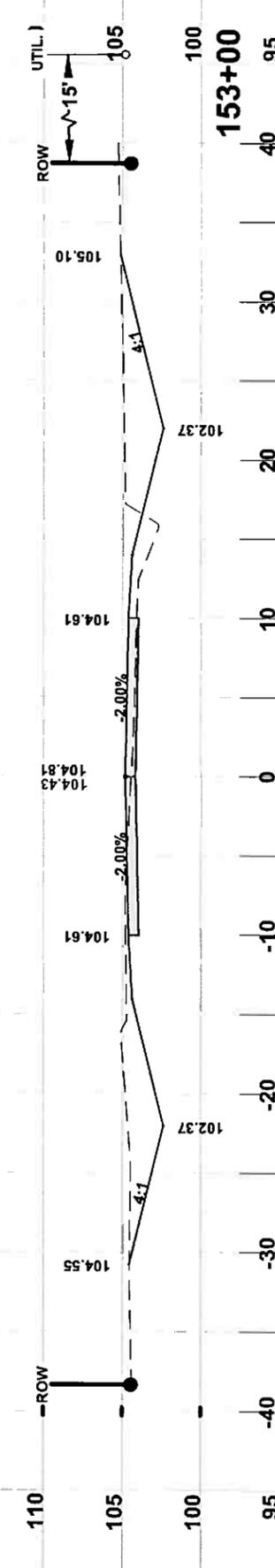
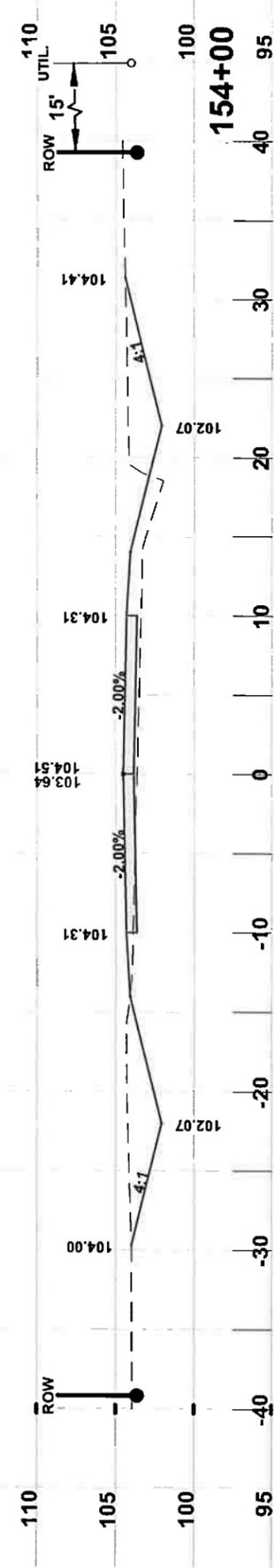
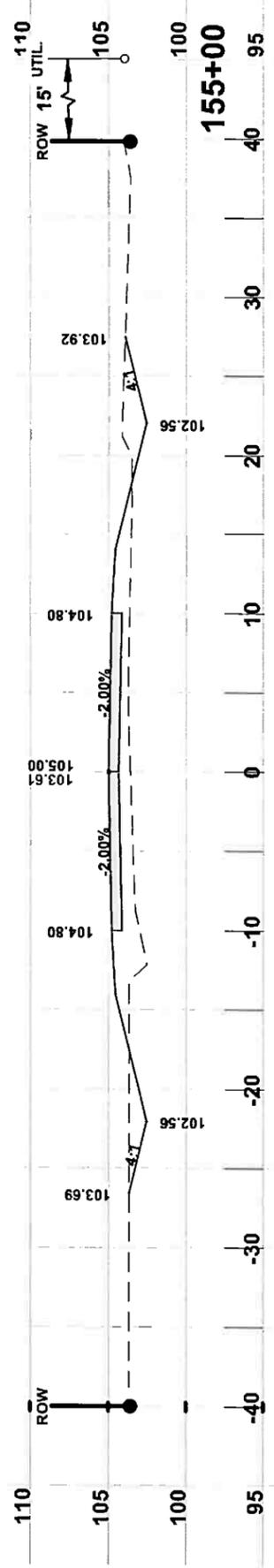
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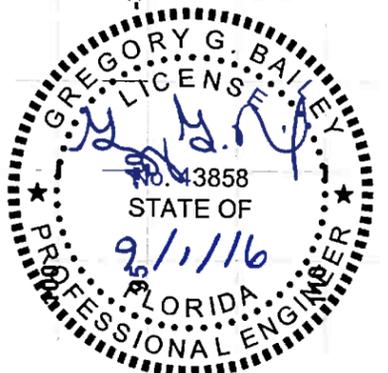
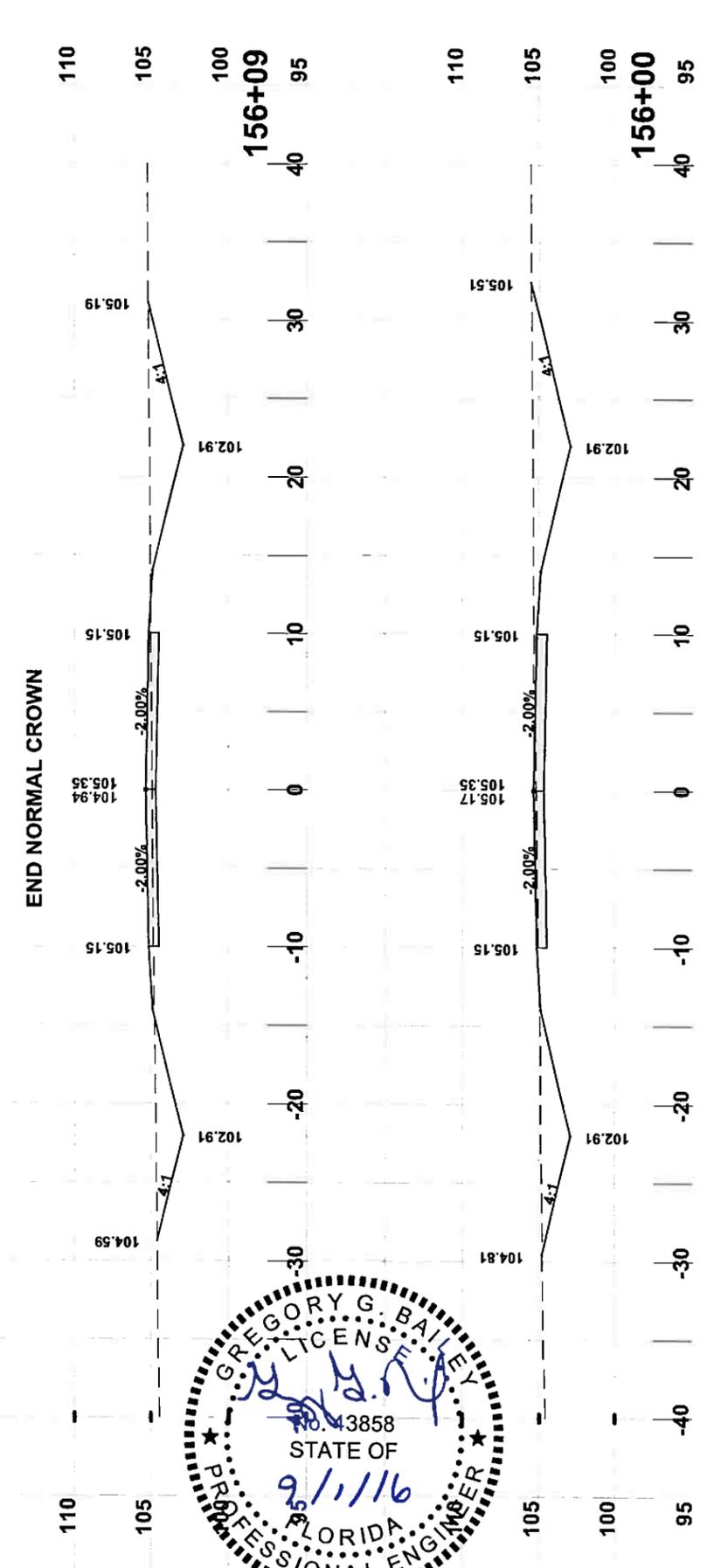
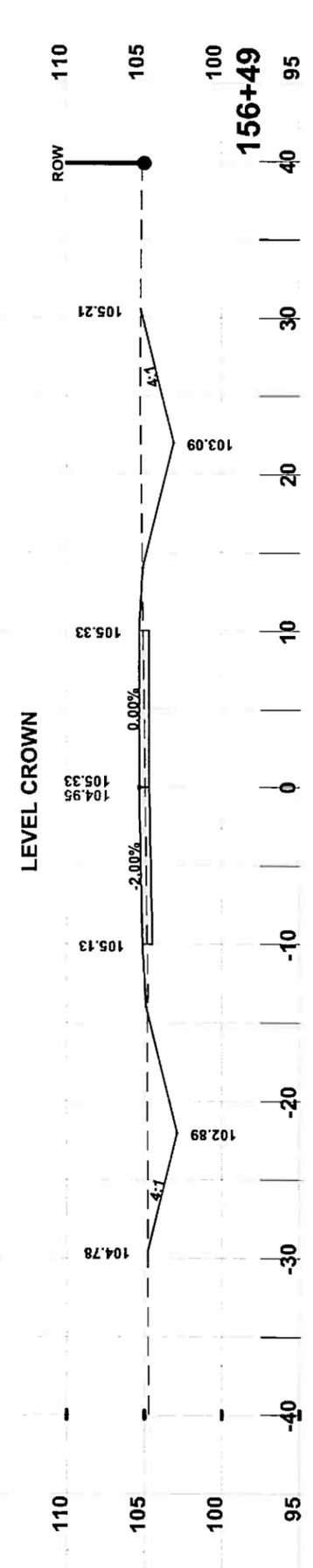
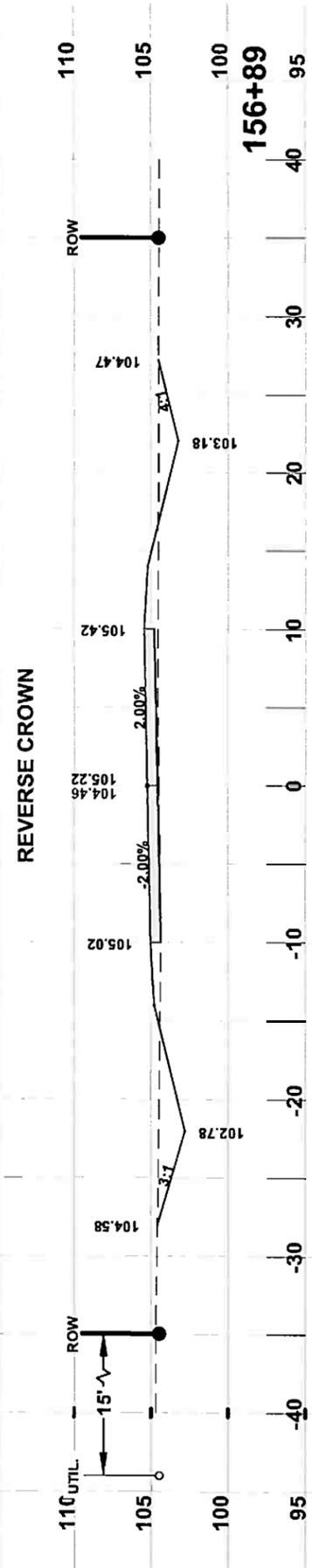
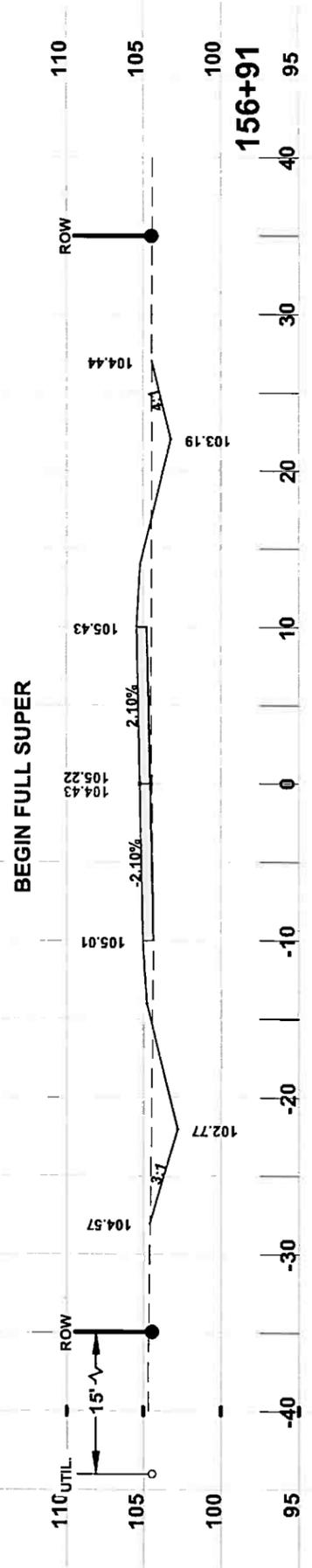
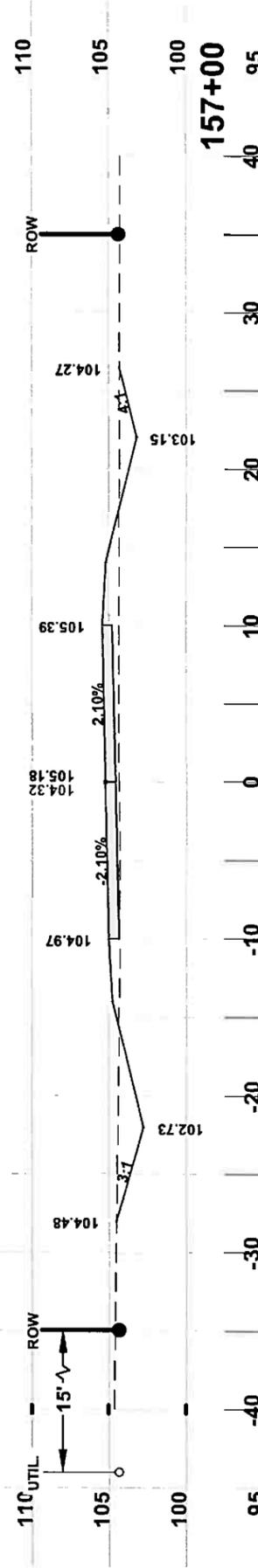
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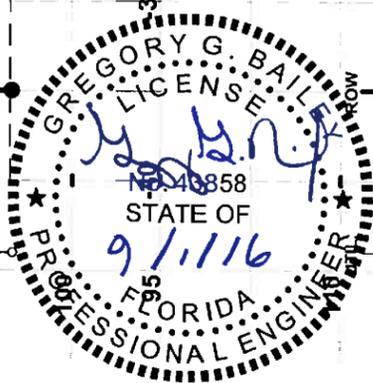
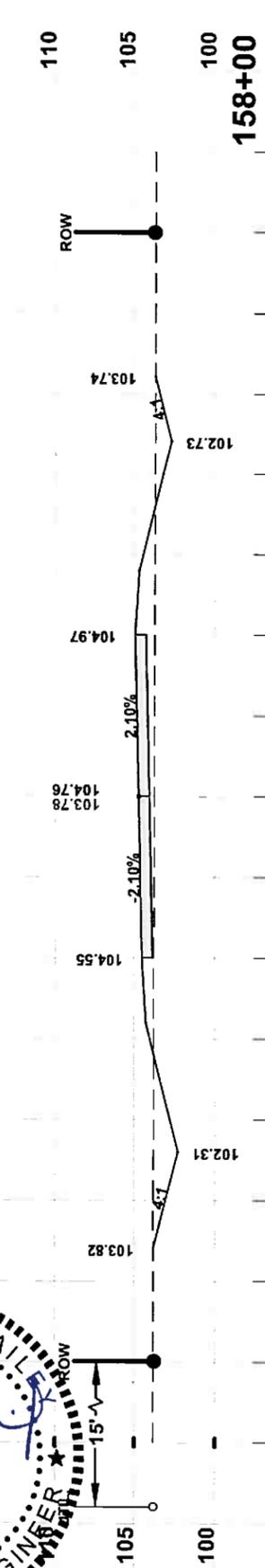
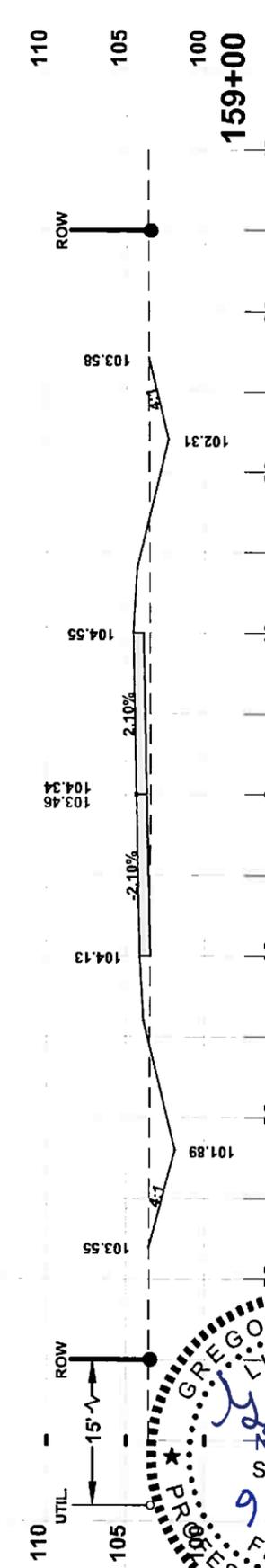
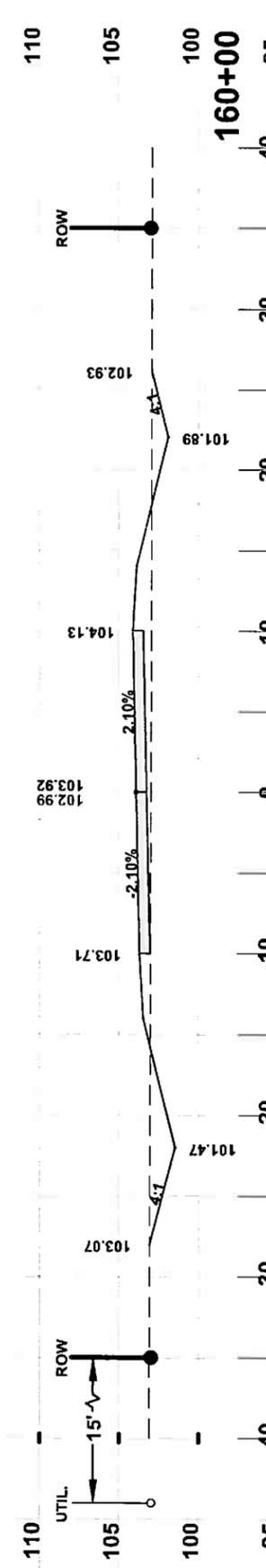
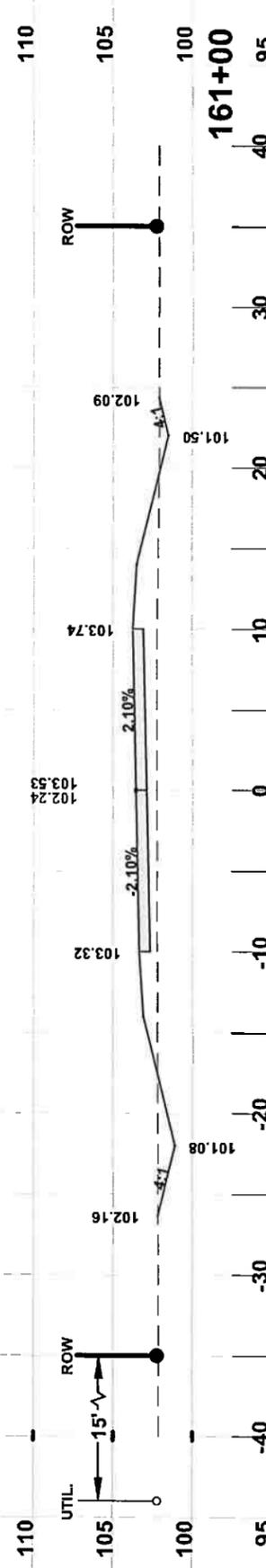
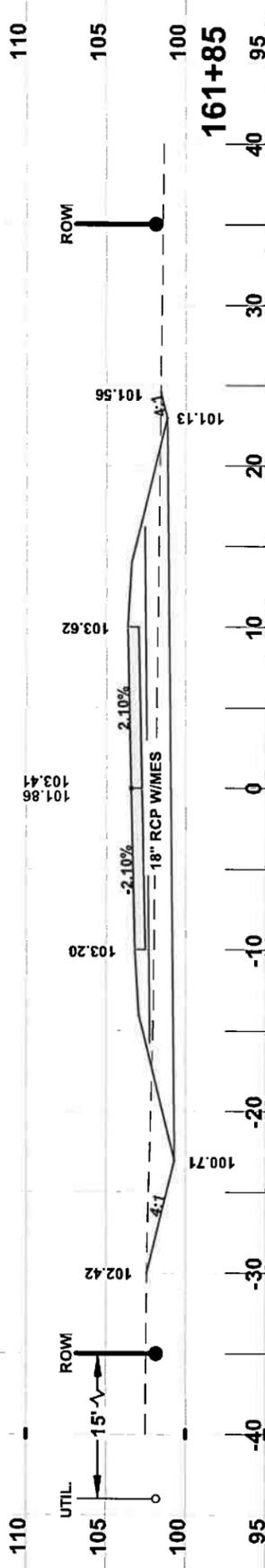
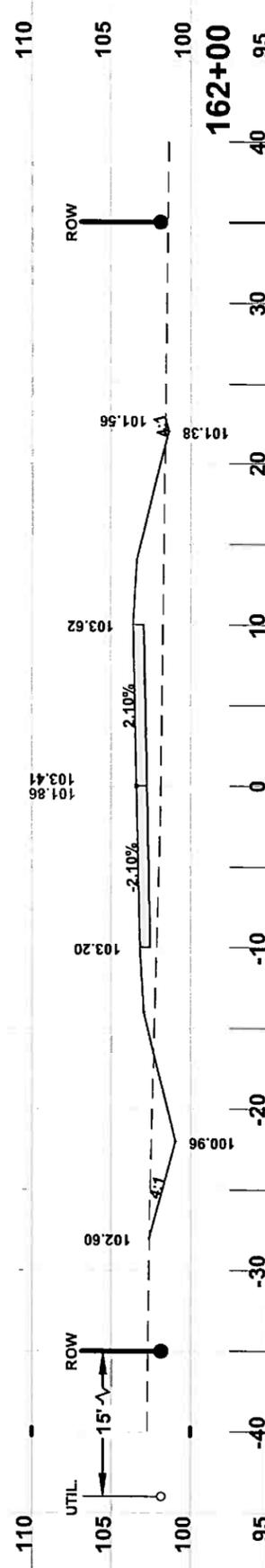
North Florida Professional Services, Inc.  
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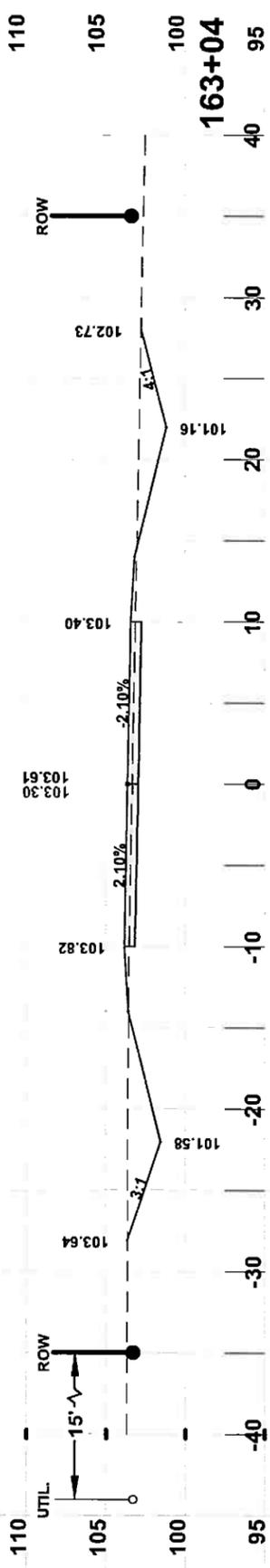
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DRAFTED BY: RF	SIGNATURE & SEAL
DATE: 9/1/16	SHEET NO.: 64

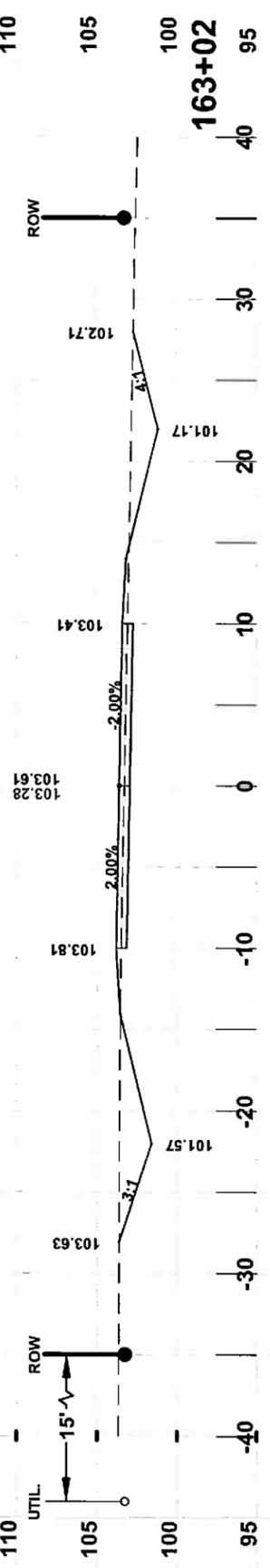
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Ph. 386-752-4675  
 Fax. 386-752-4674  
 Eng. Lic. 29011



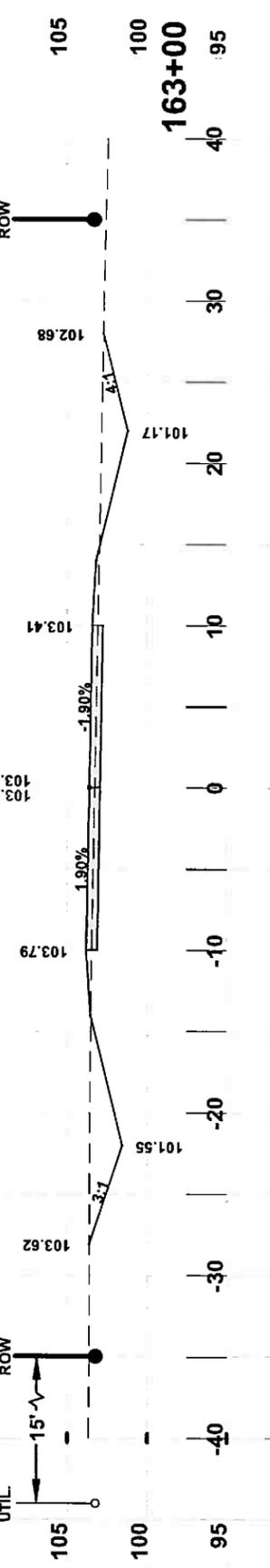
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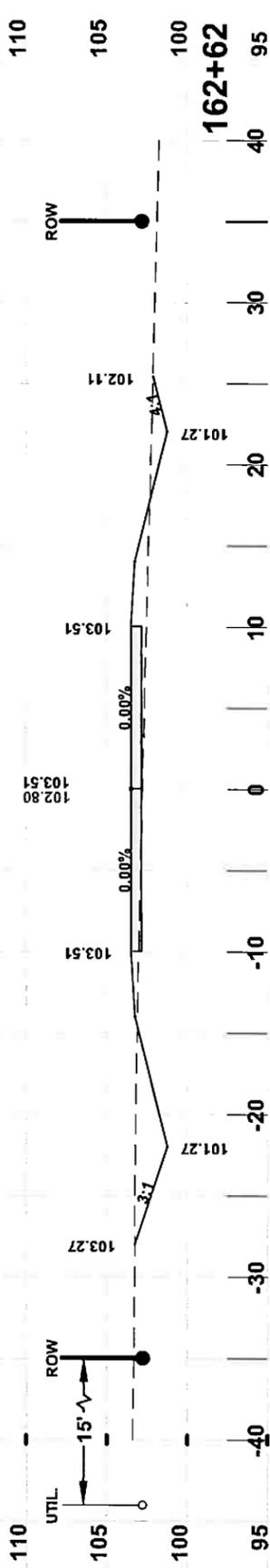
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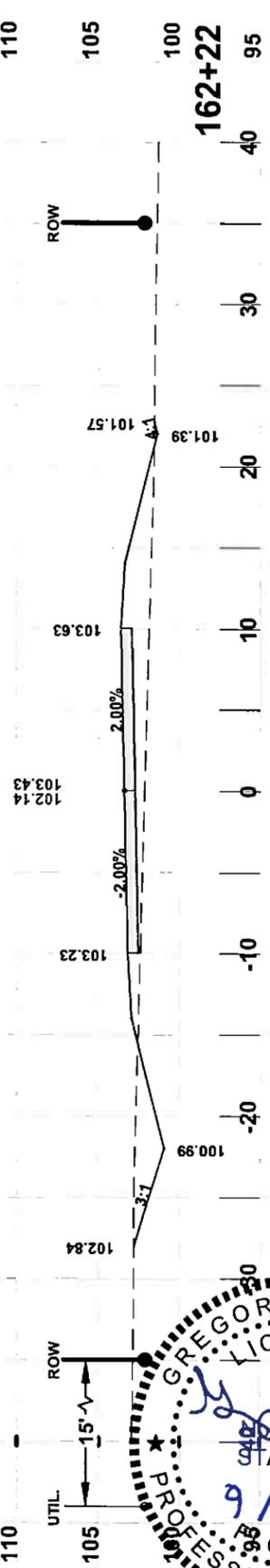
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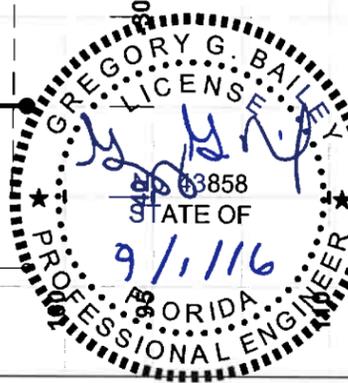
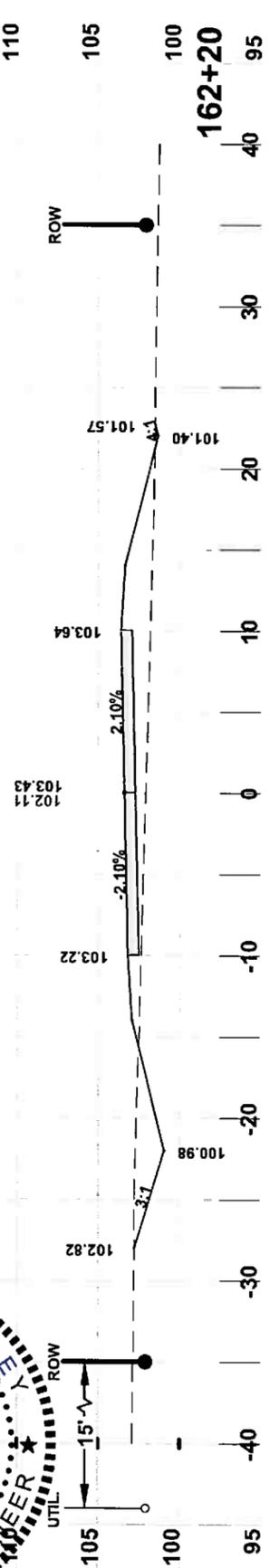
**LEVEL CROWN**



**REVERSE CROWN**



**END FULL SUPER**

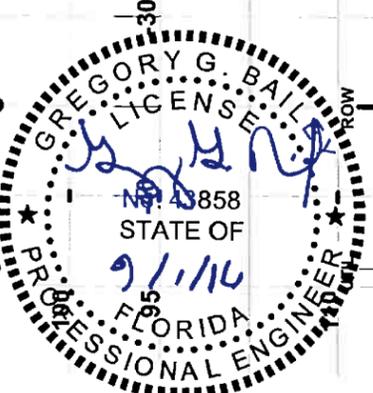
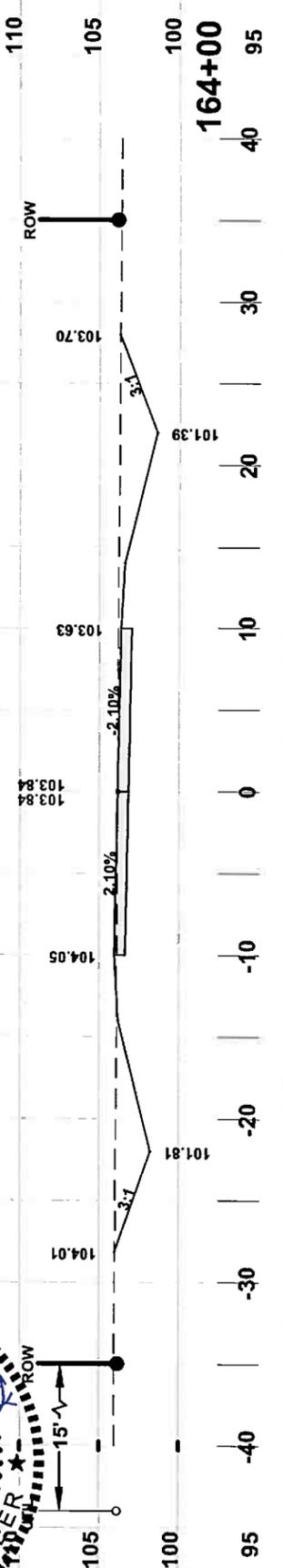
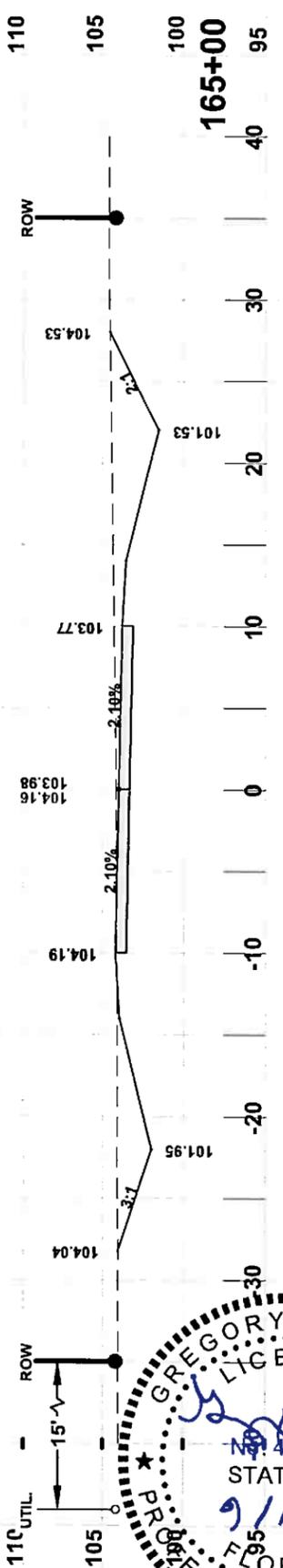
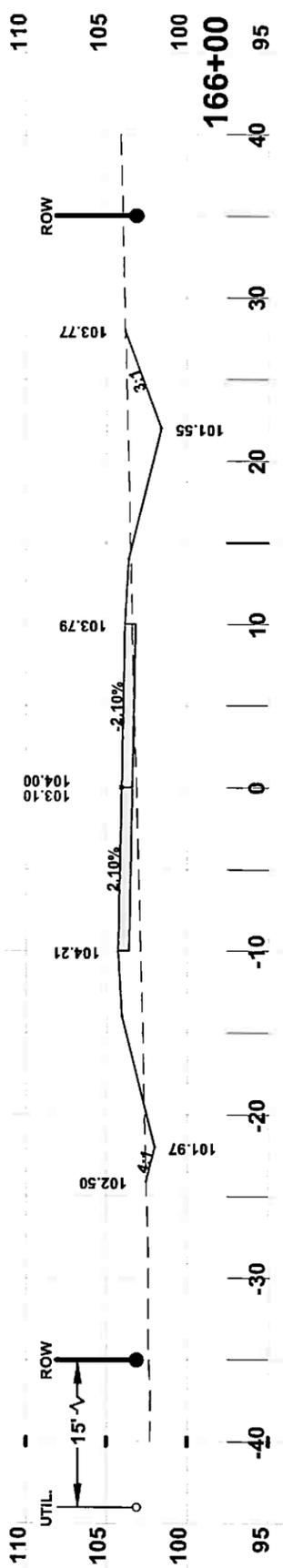
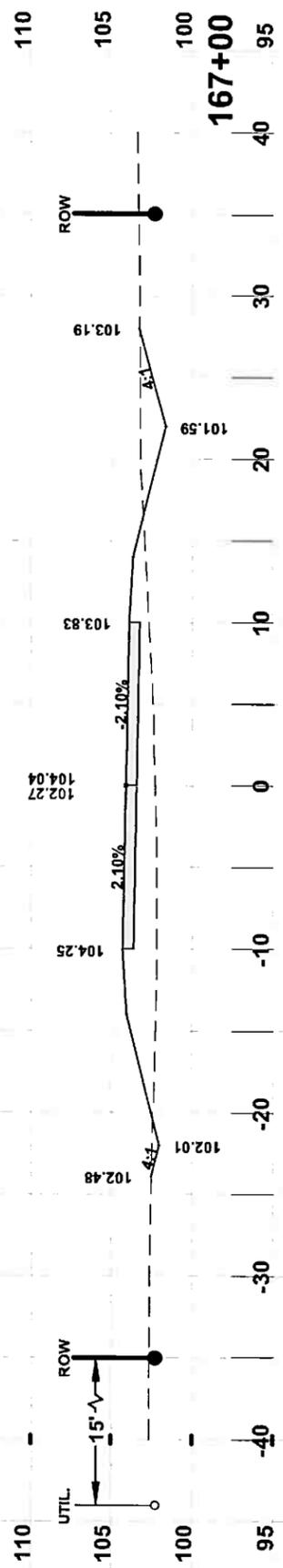
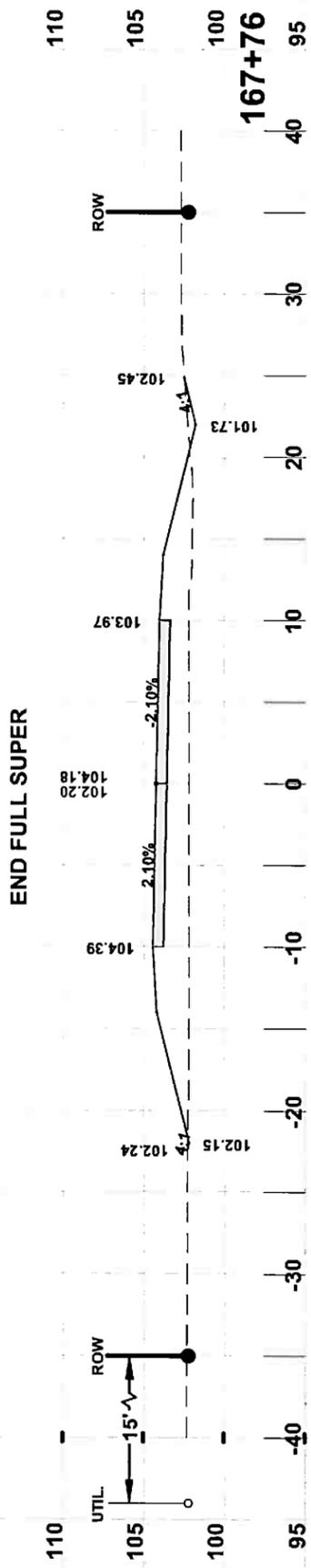
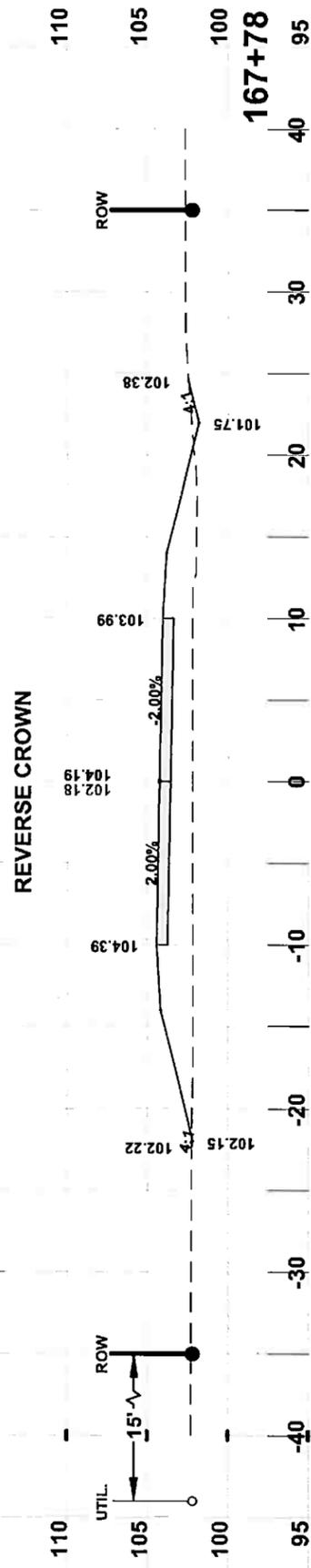


JOB NUMBER: L130715CCB  
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 DATE: 9/1/16  
 SHEET NO. 65

**CROSS SECTIONS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA



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 Lake City, FL 32025  
 Tallahassee, FL 32318  
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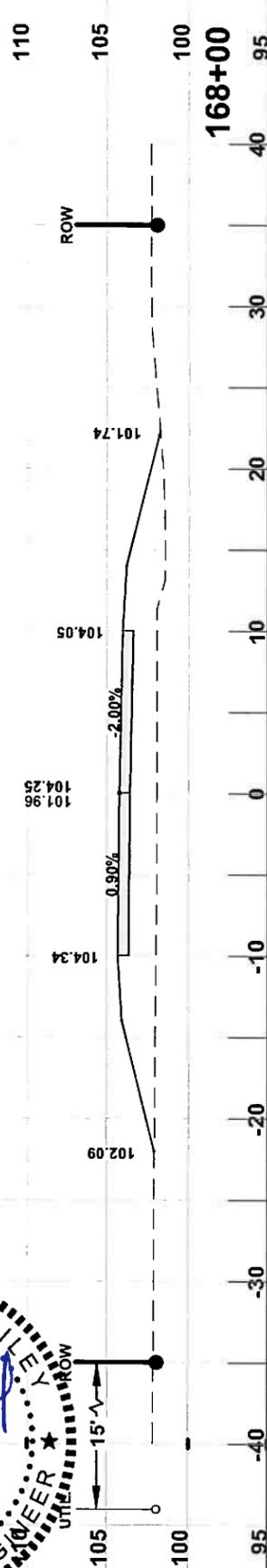
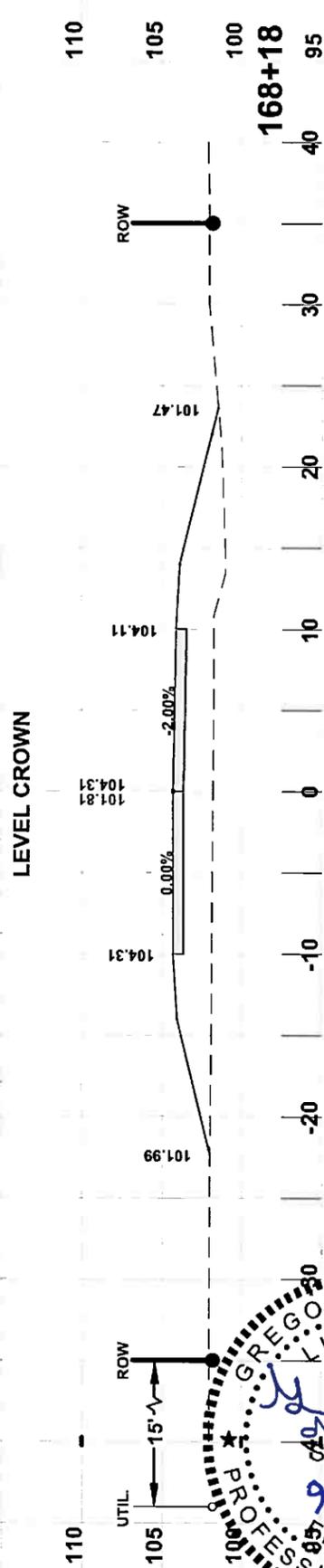
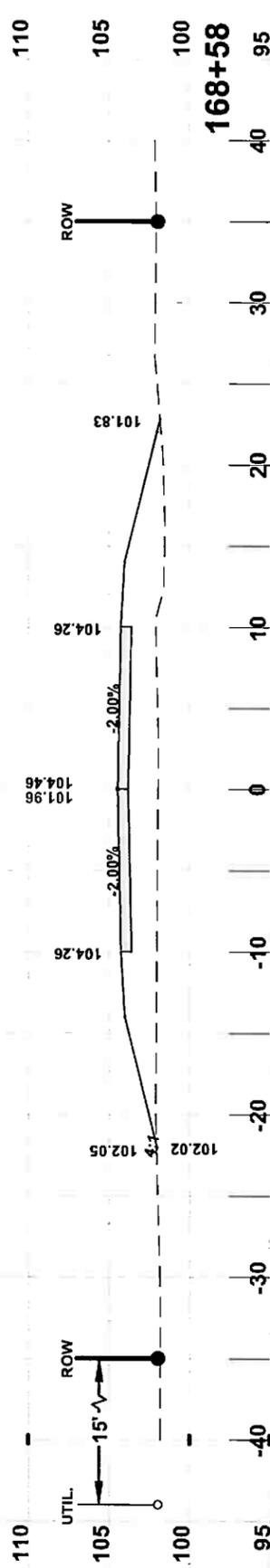
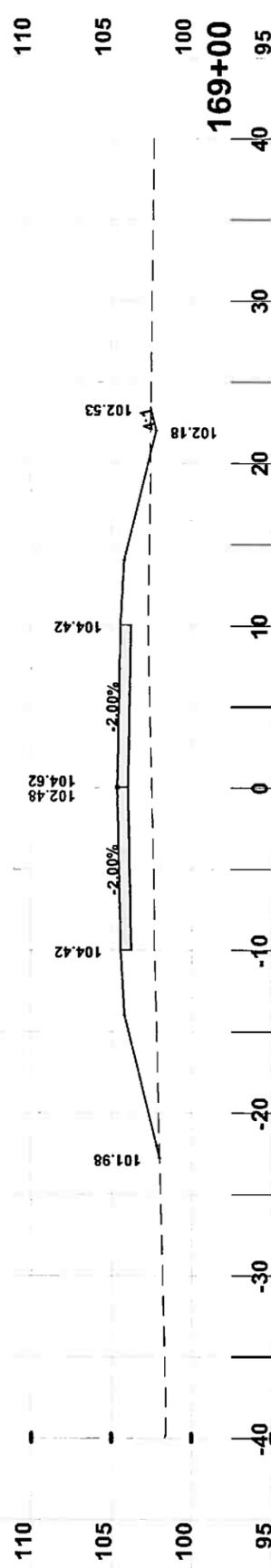
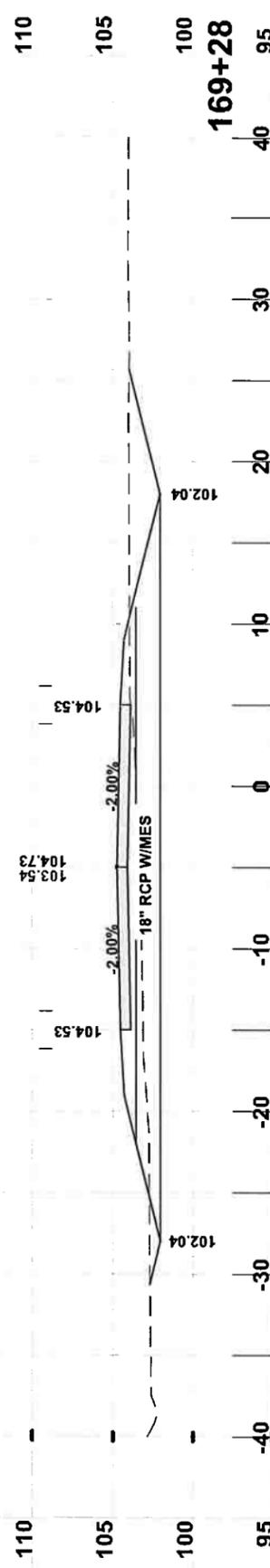
**CROSS SECTIONS**  
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 COLUMBIA COUNTY, FLORIDA

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 P.O. BOX 3823  
 Lake City, FL 32025  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

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DESIGNED BY:	RF
DRAFTED BY:	RF
CHECKED BY:	GB
SIGNATURE & SEAL:	

DATE: 1/2014  
 SHEET NO. 66



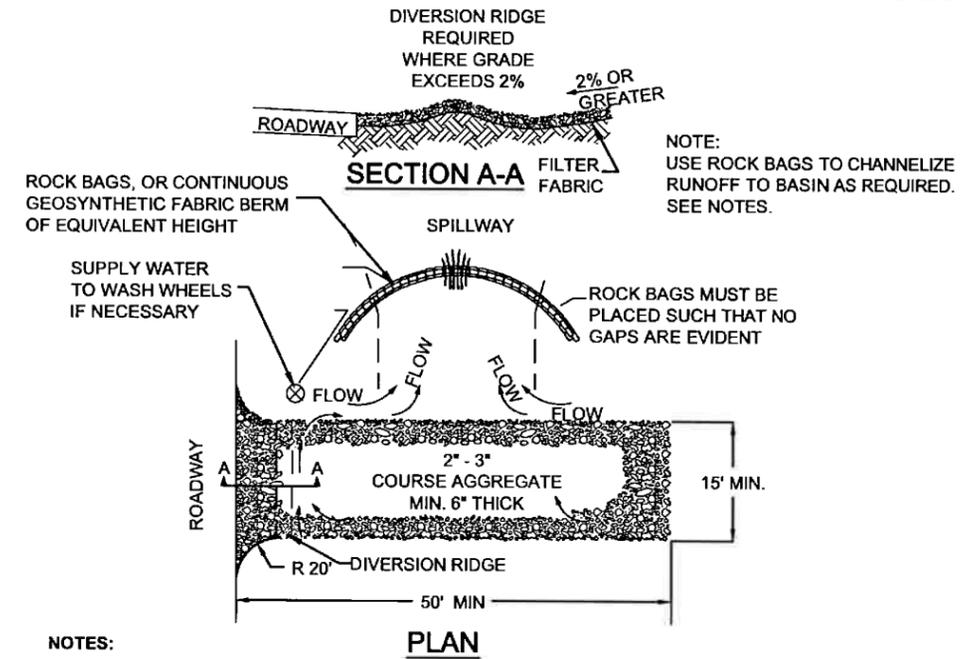
**CROSS SECTIONS**  
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SHEET NO.:	67		
DATE:	1/2014		

# EROSION CONTROL NOTES

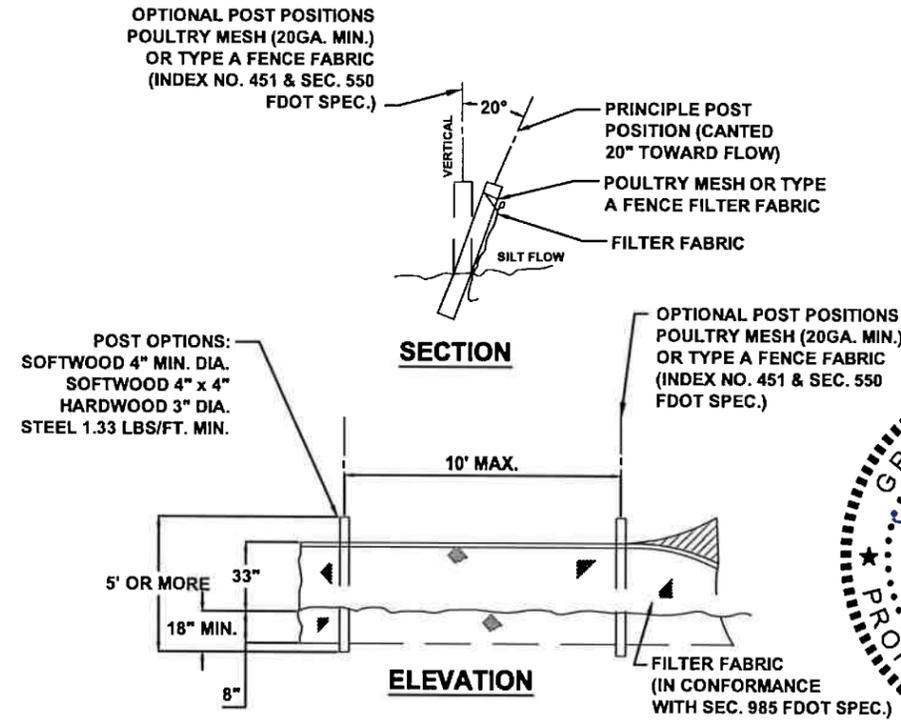
1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL.
2. THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. TO ENSURE PROTECTION FROM EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMPS FROM THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL.
3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
6. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
7. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
8. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
9. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
10. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
11. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
12. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SODDING.
13. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
14. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
15. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
16. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
17. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.25 INCHES OR GREATER.
18. SITES THAT HAVE BEEN FINAL STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  4. ROCK BAGS OR SANDBAGS SHALL BE PLACED SUCH THAT NO GAPS ARE EVIDENT.

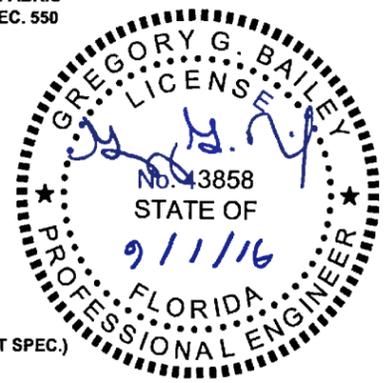
## 1 TEMPORARY CONSTRUCTION ENTRANCE

SCALE: N.T.S.



## 2 TYPE IV SILT FENCE

SCALE: N.T.S.



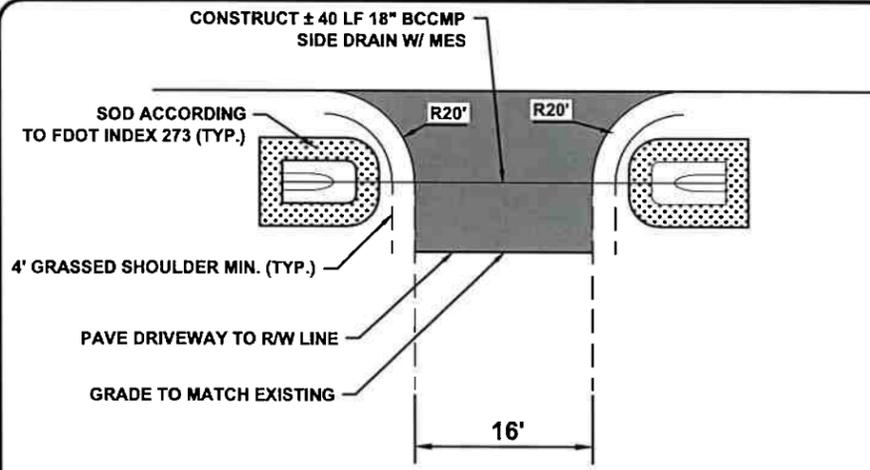
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 Date Plotted: September 1, 2016

**EROSION CONTROL NOTES & DETAILS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FL.

North Florida Professional Services, Inc.  
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 Ph. 877-335-1525  
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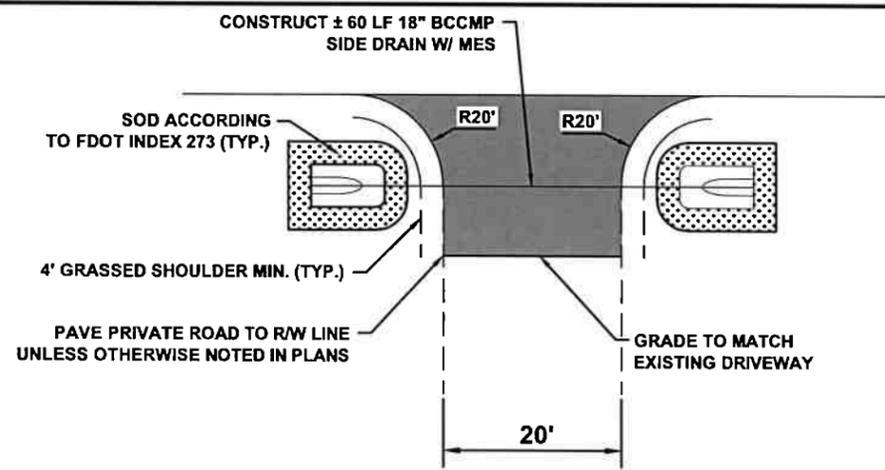
P.F. 1000  
 NORTH FLORIDA PROFESSIONAL SERVICES, INC.  
 REGISTERED PROFESSIONAL ENGINEER

REVISIONS:  
 JOB NUMBER: [ ]  
 DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 CM CM CM PB  
 SIGNATURE & SEAL  
 DATE: 2/2014  
 SHEET NO. 68



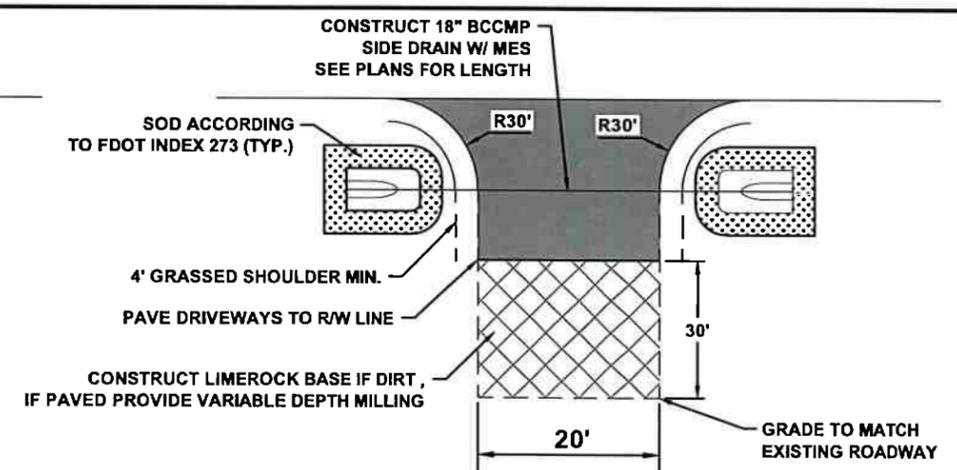
HATCHING DENOTES  
 PAVEMENT SHALL BE 137.5#/SY TYPE SP-9.5 SURFACE COURSE (TL-B)  
 OPTIONAL BASE GROUP 4

**1 PRIVATE DRIVE CONNECTION**  
 69 SCALE:N.T.S.



HATCHING DENOTES  
 PAVEMENT SHALL BE 137.5#/SY TYPE SP-9.5 SURFACE COURSE (TL-B)  
 OPTIONAL BASE GROUP 4

**2 PRIVATE ROAD CONNECTION**  
 69 SCALE:N.T.S.



HATCHING DENOTES  
 PAVEMENT SHALL BE 137.5#/SY TYPE SP-9.5 SURFACE COURSE (TL-B)  
 OPTIONAL BASE GROUP 4

**3 DIRT/PAVED COUNTY ROAD CONNECTION**  
 69 SCALE:N.T.S.

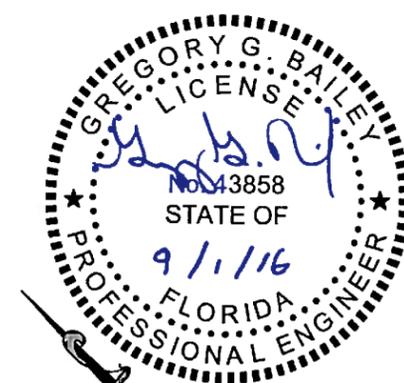
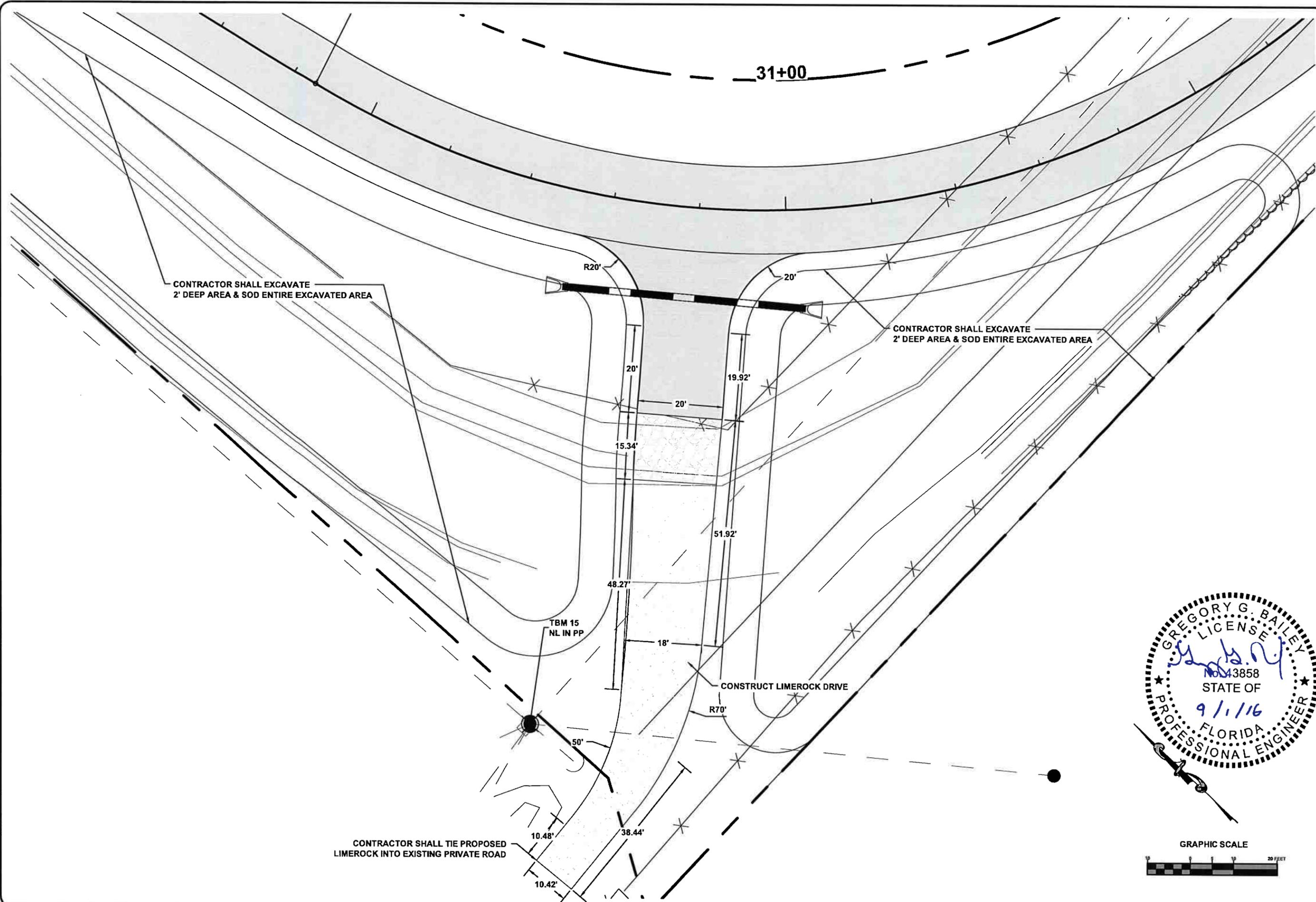


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 Ph. 877-335-1525  
 Eng. Lic. 27011

**MISC. DETAILS**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FL.

JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
DRAFTED BY:	CM
CHECKED BY:	PB
DATE:	2/2014
SHEET NO.:	69

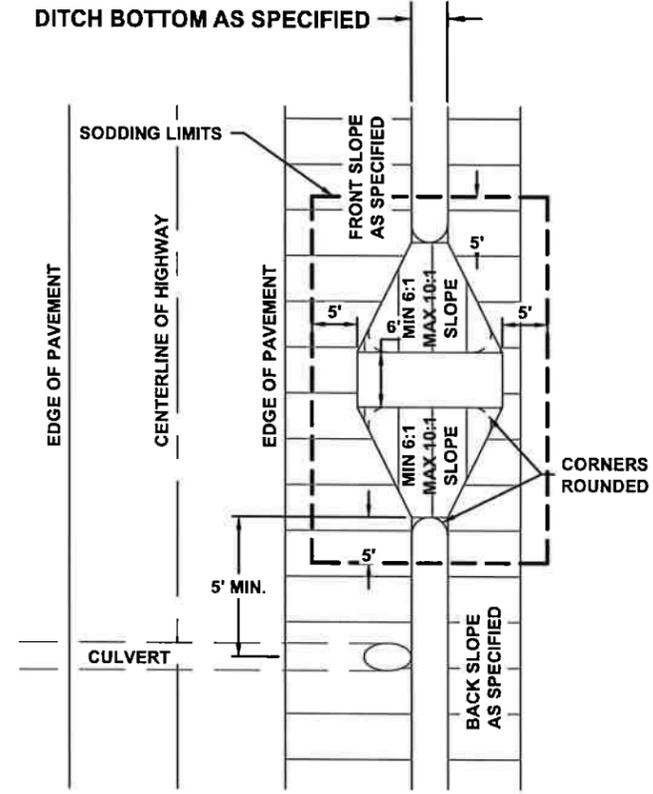
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Fax. 386-752-4874  
Eng. Lic. 29011

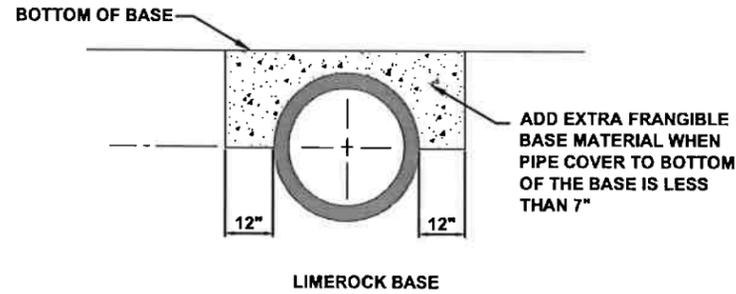
**MISC. DETAIL'S**  
SW BRIM STREET  
COLUMBIA COUNTY, FLORIDA

REVISIONS:  
JOB NUMBER: L130715CCB  
DESIGNED BY: CM  
DRAFTED BY: CM  
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SIGNATURE & SEAL  
DATE: 2/2014  
SHEET NO. 70



HEIGHT OF DITCH BLOCK SHALL BE 0.75' BELOW EDGE OF PAVEMENT UNLESS OTHERWISE SPECIFIED IN THE PLANS.

**1** DITCH BLOCK DETAIL  
 71 SCALE:N.T.S.



**2** EXTRA BASE FOR CROSS  
 71 CULVERTS UNDER FLEXIBLE PAVEMENTS  
 SCALE:N.T.S.



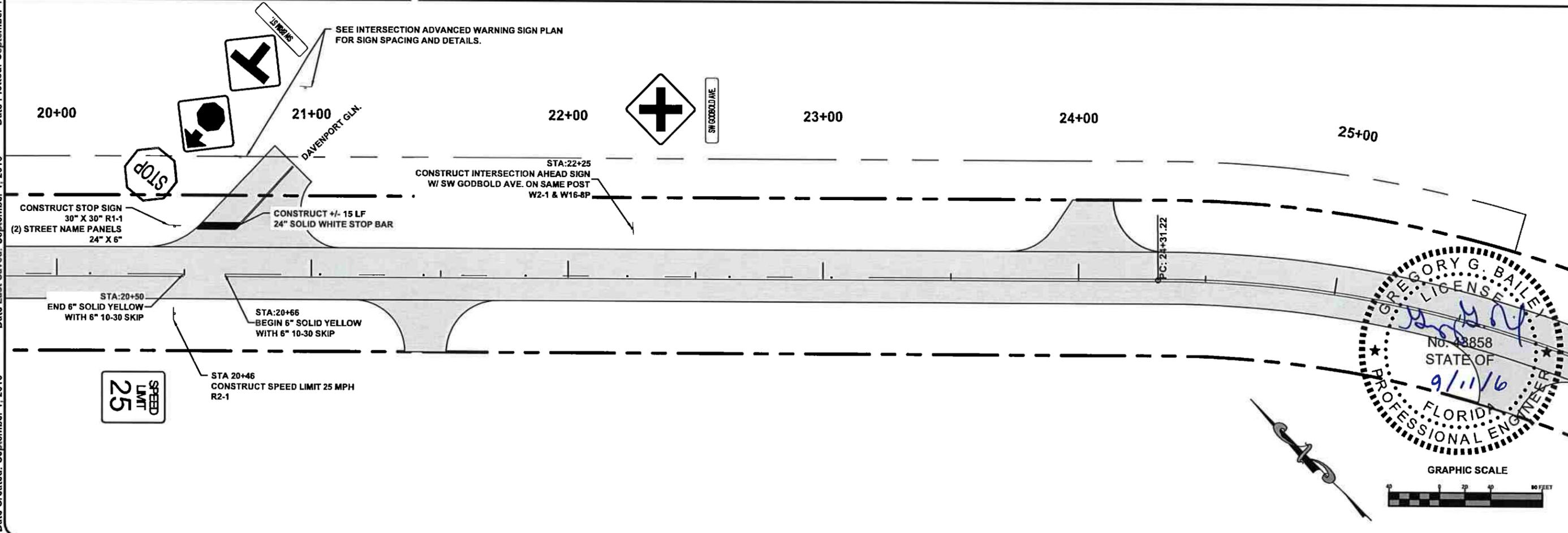
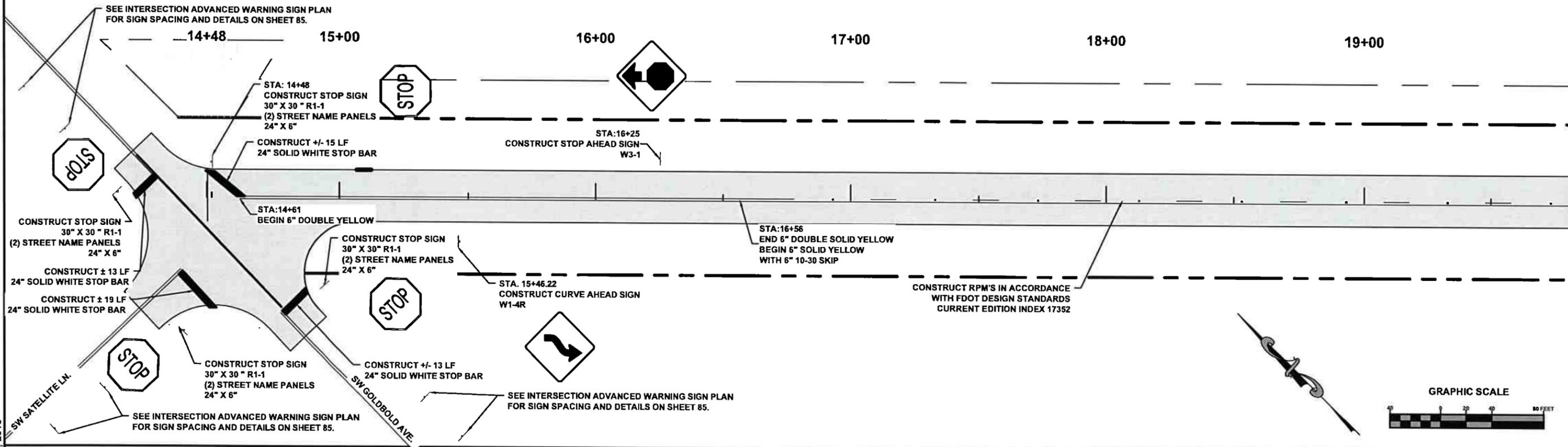
MISC. DETAILS  
 SW BRIM STREET  
 COLUMBIA COUNTY, FL.

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 P.O. BOX 3823  
 Lake City, FL 32025  
 Ph. 386-752-4675  
 Fax. 386-752-4674



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DRAWN BY:	CM	CM	PB
CHECKED BY:	CM	CM	PB
DATE:	2/2014		
SHEET NO.:	71		

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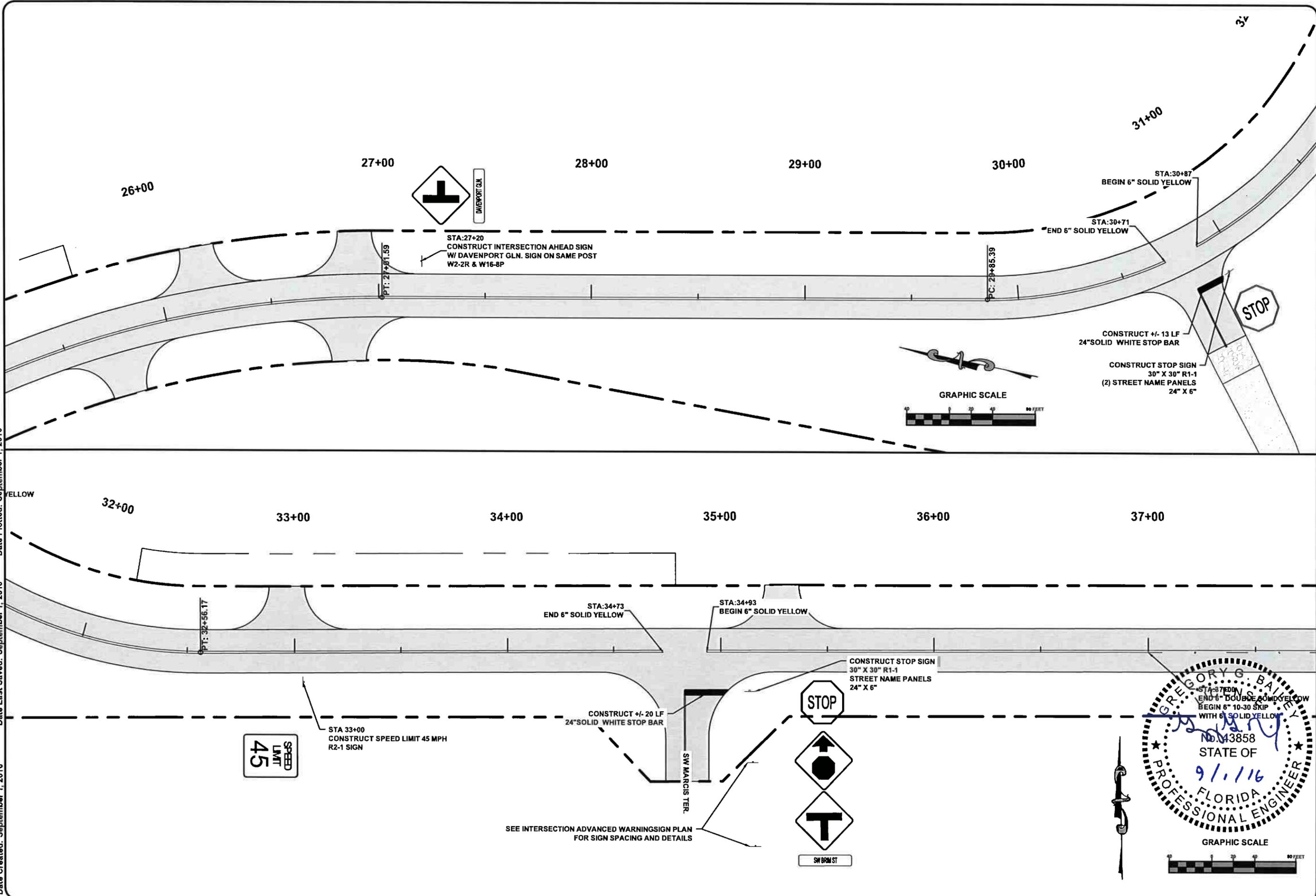
**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

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DRAFTED BY:	CM	CM	GB
CHECKED BY:	CM	CM	GB
SIGNATURE & SEAL			

DATE: 2/2014  
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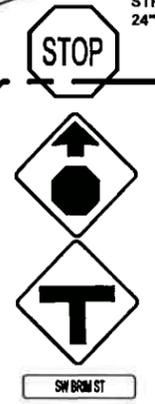
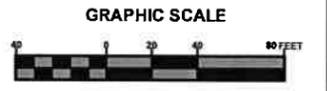
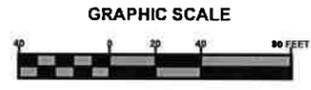
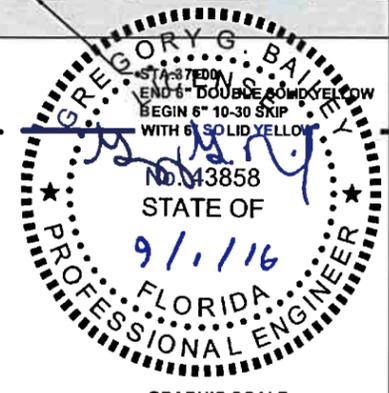


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 Fax. 386-752-4874  
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**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:  
 JOB NUMBER: L130715CCB  
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 CM CM CM GB  
 SIGNATURE & SEAL  
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Date Created: September 1, 2016 Date Last Saved: September 1, 2016

38+00

39+00

40+00

41+00

42+00

43+00



STA. 41+60  
CONSTRUCT CURVE AHEAD SIGN  
W1-4R

STA:43+40  
END 6" 10-30 SKIP  
WITH 6" SOLID YELLOW  
BEGIN 6" DOUBLE SOLID YELLOW



GRAPHIC SCALE



44+00

45+00

46+00

47+00

48+00

49+00

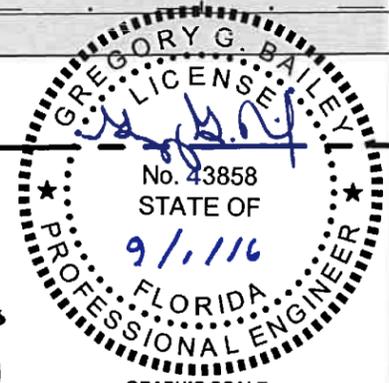


STA. 46+60  
CONSTRUCT SPEED LIMIT 25 MPH SIGN  
R2-1

STA:45+50  
END 6" DOUBLE SOLID YELLOW  
BEGIN 6" SOLID YELLOW  
WITH 6" 10-30 SKIP



GRAPHIC SCALE



North Florida Professional Services, Inc.  
P.O. BOX 3823  
Tallahassee, FL 32318  
Ph. 877-335-1525  
Fax. 386-752-4874  
Eng. Lic. 29011



**SIGNING & PAVEMENT MARKINGS**  
BRIM STREET  
COLUMBIA COUNTY

REVISIONS:

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CM CM CM GB  
SIGNATURE & SEAL  
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 Date Created: September 1, 2016 Date Last Saved: September 1, 2016 Date Plotted: September 1, 2016

50+00

51+00

REDUCE  
SPEED  
AHEAD

52+00

53+00

54+00

55+00

STA. 51+60  
CONSTRUCT REDUCED SPEED AHEAD SIGN  
R2-5A

P.C.: 52+63.79

STA: 55+50  
CONSTRUCT INTERSECTION AHEAD SIGN W/  
SW JAFUS AVE. SIGN ON SAME POST  
W2-1 & W16-8P



GRAPHIC SCALE



56+00

SPEED  
LIMIT  
35

57+00

58+00

59+00

60+00

REDUCE  
SPEED  
AHEAD

STA. 56+60  
CONSTRUCT SPEED LIMIT 35 MPH SIGN  
R2-1

P.T.: 56+64.48

P.C.: 57+50.25

SEE INTERSECTION ADVANCED WARNING SIGN PLAN  
FOR SIGN SPACING AND DETAILS.



61+00

CONSTRUCT REDUCED SPEED AHEAD SIGN  
R2-5A



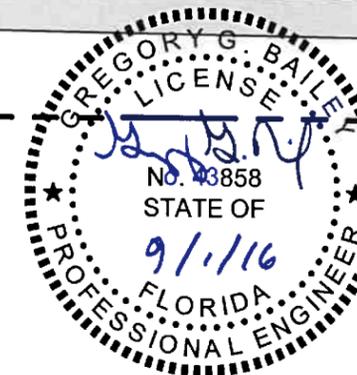
CONSTRUCT STOP SIGN  
30" X 30" R1-1  
(2) STREET NAME PANELS  
24" X 6"

CONSTRUCT +/- 20 LF  
24" SOLID WHITE STOP BAR

STA: 61+42  
END 6" SOLID YELLOW  
WITH 6" 10-30 SKIP

STA: 61+62  
BEGIN 6" DOUBLE SOLID YELLOW

GRAPHIC SCALE

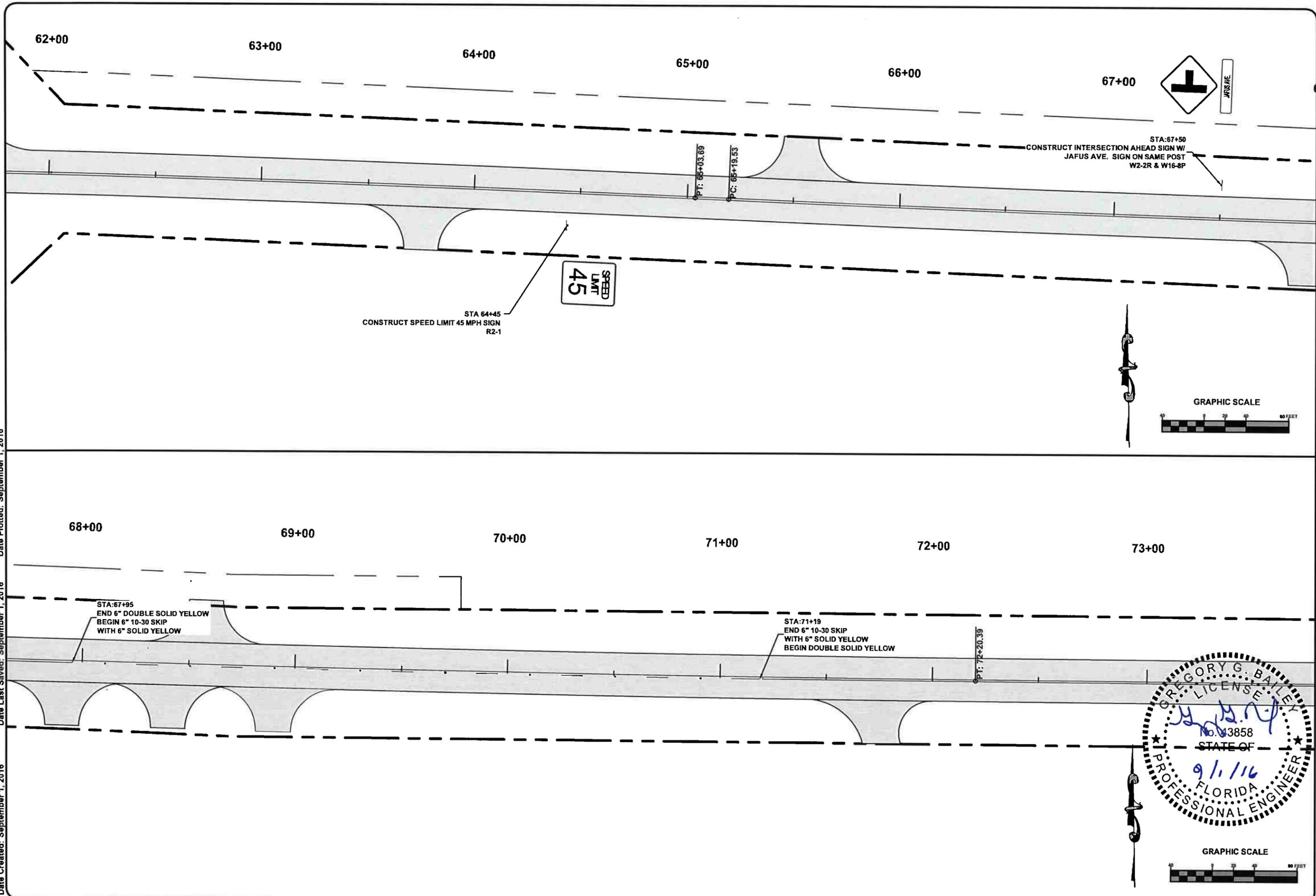


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**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:  
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 DATE: 2/2014  
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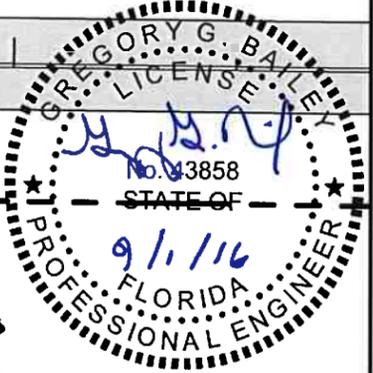
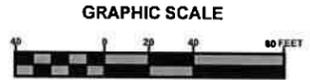


JAFUS AVE



STA 64+45  
 CONSTRUCT SPEED LIMIT 45 MPH SIGN  
 R2-1

STA: 67+50  
 CONSTRUCT INTERSECTION AHEAD SIGN W/  
 JAFUS AVE. SIGN ON SAME POST  
 W2-2R & W16-8P



North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011



**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
DRAFTED BY:	CM
CHECKED BY:	GB
SIGNATURE & SEAL:	GB
DATE:	2/2014
SHEET NO.:	76

File Location: X:\2013\130715CCB\Planning & Design\CADD\CCB\signing01REV IS&M\_72  
Date Created: September 1, 2016 Date Last Saved: September 1, 2016 Date Plotted: September 1, 2016

74+00

75+00

76+00

77+00

78+00

79+00

80+

CONSTRUCT RPM'S IN ACCORDANCE  
WITH FDOT DESIGN STANDARDS  
CURRENT EDITION INDEX 17352

GRAPHIC SCALE



80+00

81+00

82+00

83+00

84+00

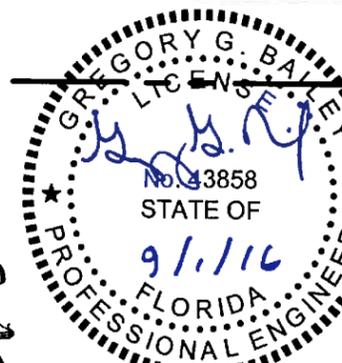
85+00

86+00

PC: 83+91.10

STA: 84+80  
END 6" DOUBLE SOLID YELLOW  
BEGIN 6" SOLID YELLOW  
WITH 6" 10-30 SKIP

GRAPHIC SCALE



REVISIONS:

JOB NUMBER:	L130715CCB
DESIGNED BY:	77
DRAFTED BY:	CM
CHECKED BY:	GB
SIGNATURE & SEAL	
DATE:	2/2014
SHEET NO.:	77

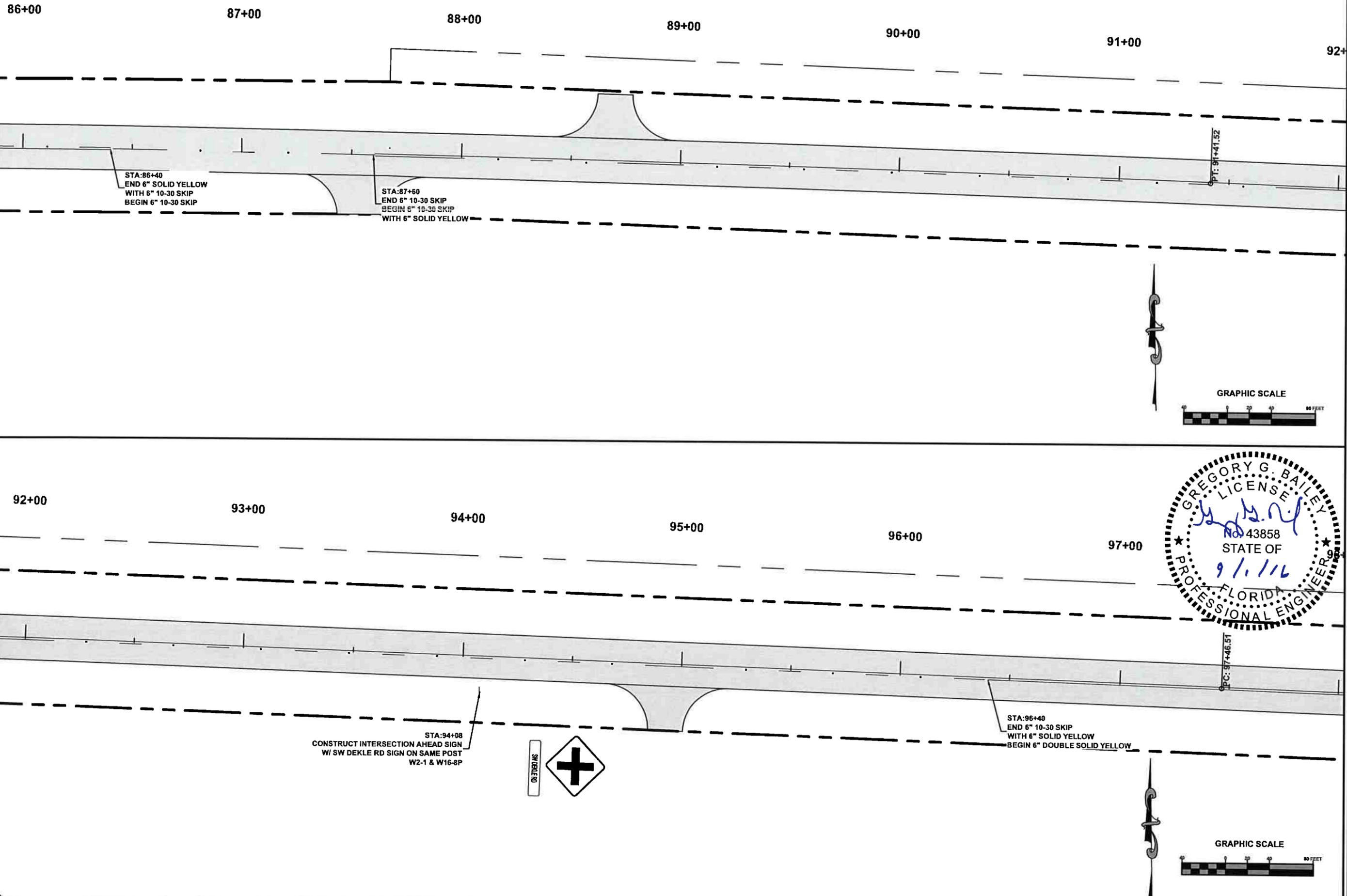
# SIGNING & PAVEMENT MARKINGS

BRIM STREET  
COLUMBIA COUNTY

North Florida Professional Services, Inc.  
P.O. BOX 3823  
Lake City, FL 32025  
Ph. 386-752-4675  
Fax. 386-752-4674  
Tallahassee, FL 32318  
Ph. 877-335-1525  
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 Date Created: September 1, 2016  
 Date Last Saved: September 1, 2016  
 Date Plotted: September 1, 2016

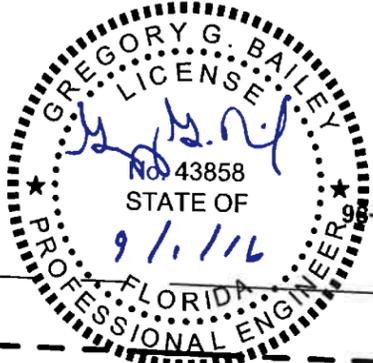


STA:86+40  
 END 6" SOLID YELLOW  
 WITH 6" 10-30 SKIP  
 BEGIN 6" 10-30 SKIP

STA:87+60  
 END 6" 10-30 SKIP  
 BEGIN 6" 10-30 SKIP  
 WITH 6" SOLID YELLOW

PT: 91+41.52

GRAPHIC SCALE



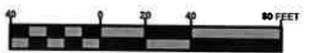
STA:94+08  
 CONSTRUCT INTERSECTION AHEAD SIGN  
 W/ SW DEKLE RD SIGN ON SAME POST  
 W2-1 & W16-8P



STA:96+40  
 END 6" 10-30 SKIP  
 WITH 6" SOLID YELLOW  
 BEGIN 6" DOUBLE SOLID YELLOW

PC: 97+46.51

GRAPHIC SCALE



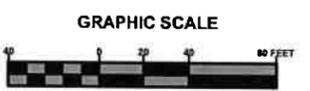
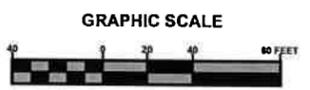
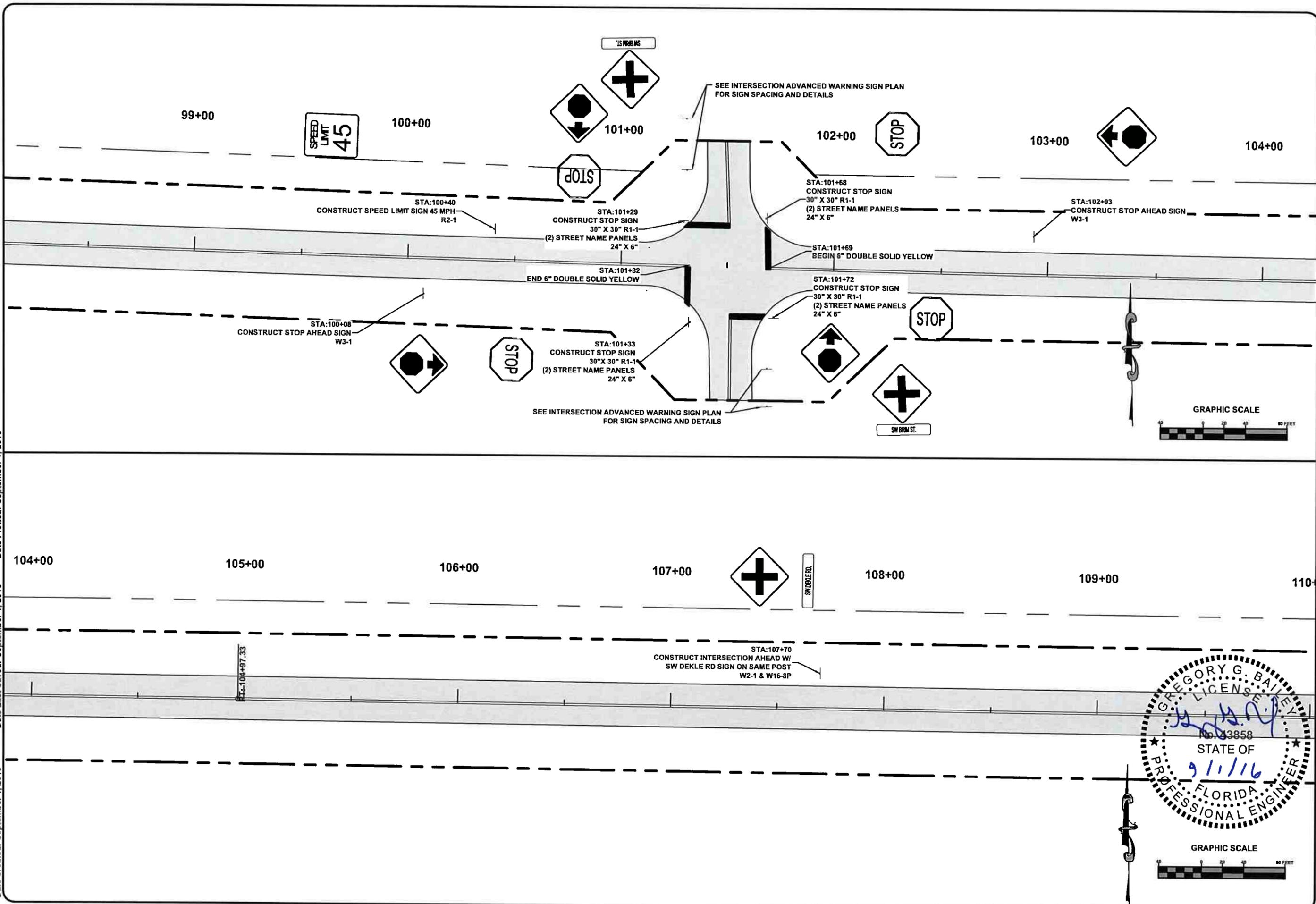
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4874  
 Eng. Lic. 29011

**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
DRAWN BY:	CM
CHECKED BY:	GB
DATE:	2/2014
SHEET NO.:	78

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 Date Created: September 1, 2016  
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 Date Plotted: September 1, 2016



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 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

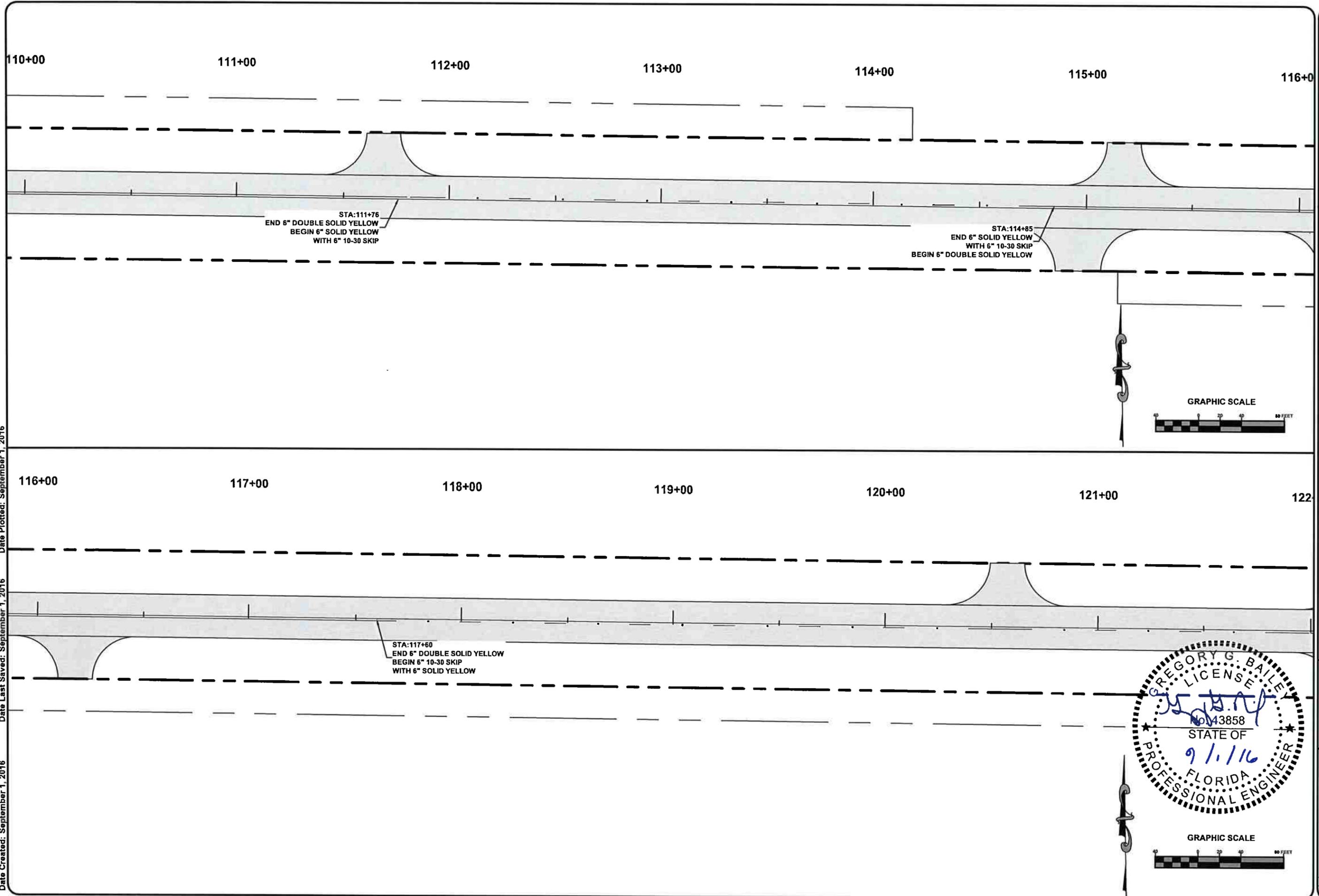
**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
DRAFTED BY:	CM
CHECKED BY:	GB
DATE:	2/2014
SHEET NO.:	79

SIGNATURE & SEAL

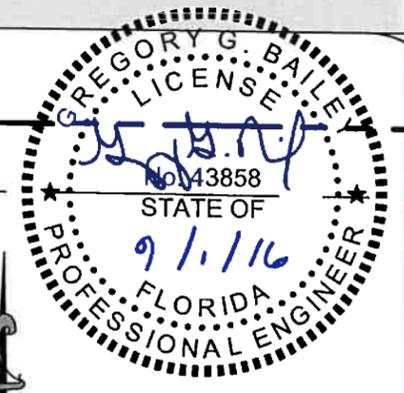
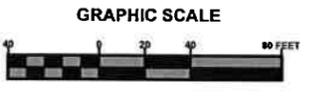
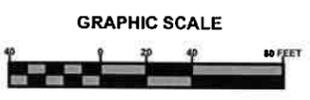
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 Date Created: September 1, 2016 Date Last Saved: September 1, 2016 Date Plotted: September 1, 2016



STA:111+76  
 END 6" DOUBLE SOLID YELLOW  
 BEGIN 6" SOLID YELLOW  
 WITH 6" 10-30 SKIP

STA:114+85  
 END 6" SOLID YELLOW  
 WITH 6" 10-30 SKIP  
 BEGIN 6" DOUBLE SOLID YELLOW

STA:117+60  
 END 6" DOUBLE SOLID YELLOW  
 BEGIN 6" 10-30 SKIP  
 WITH 6" SOLID YELLOW



North Florida Professional Services, Inc.  
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 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Eng. Lic. 28011



**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

DESIGNED BY:	CM	CM	CM	GB
DRAFTED BY:	CM	CM	CM	GB
CHECKED BY:	CM	CM	CM	GB
SIGNATURE & SEAL				

DATE: 2/2014  
 SHEET NO. 80

File Location: X:\2013\130715CCB\Planning & Design\CADD\CBCBs\signing01REV IS&M\_76  
Date Created: September 1, 2016  
Date Last Saved: September 1, 2016  
Date Plotted: September 1, 2016

122+00

123+00

124+00

125+00

126+00

127+00

128

128+00

129+00

130+00

131+00

132+00

133+00

STA: 129+07  
END 6" DOUBLE SOLID YELLOW  
BEGIN 6" 10-30 SKIP  
WITH 6" SOLID YELLOW

STA: 129+70  
CONSTRUCT INTERSECTION AHEAD SIGN W/  
SW MOLLIE TER. SIGN ON SAME POST  
W2-2L & W16-8P



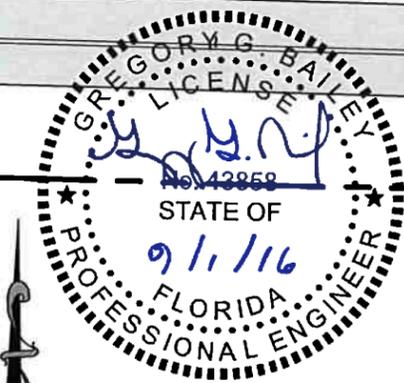
STA: 131+00  
END 6" 10-30 SKIP  
WITH 6" SOLID YELLOW  
BEGIN 6" 10-30 SKIP

PC: 131+79.63

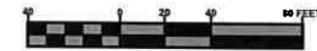
STA: 132+40  
END 6" 10-30  
BEGIN 6" DOUBLE SOLID YELLOW



GRAPHIC SCALE



GRAPHIC SCALE



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P.O. BOX 3823  
Lake City, FL 32025  
Ph. 877-335-1525  
Fax. 386-732-4874  
Tallahassee, FL 32318  
Ph. 877-335-1525  
Eng. Lic. 28011

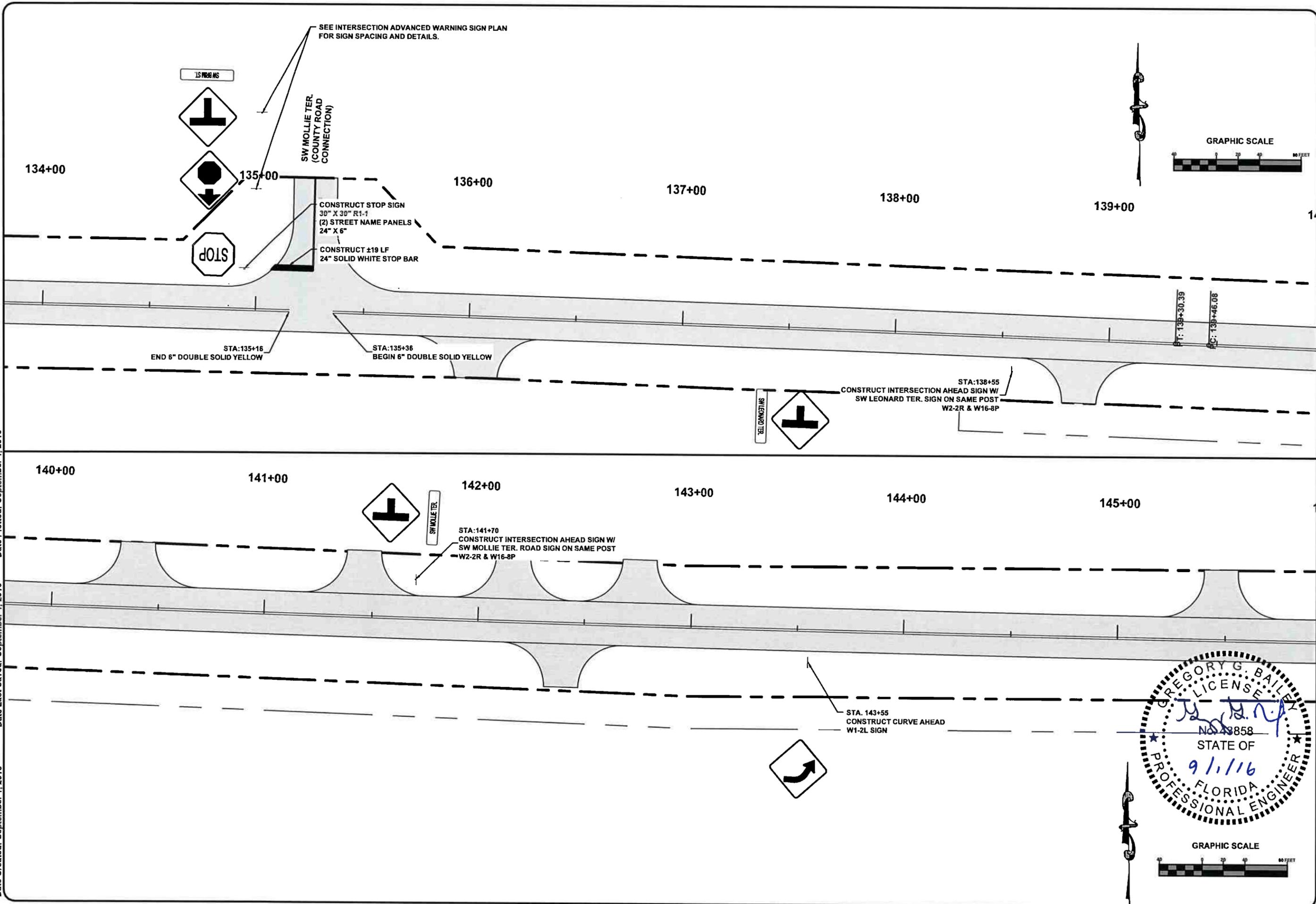


**SIGNING & PAVEMENT MARKINGS**  
BRIM STREET  
COLUMBIA COUNTY

REVISIONS:

JOB NUMBER:	L130715CCB
DESIGNED BY:	CM
DRAWN BY:	CM
CHECKED BY:	GB
DATE:	2/2014
SHEET NO.:	81

File Location: X:\2013\130715CCB\Planning & Design\CADD\CCBs\signing01REV IS&M\_77  
 Date Created: September 1, 2016  
 Date Last Saved: September 1, 2016  
 Date Plotted: September 1, 2016



SEE INTERSECTION ADVANCED WARNING SIGN PLAN FOR SIGN SPACING AND DETAILS.

SW MOLLIE TER.  
(COUNTY ROAD CONNECTION)

CONSTRUCT STOP SIGN  
30" X 30" R1-1  
(2) STREET NAME PANELS  
24" X 6"

CONSTRUCT ±19 LF  
24" SOLID WHITE STOP BAR

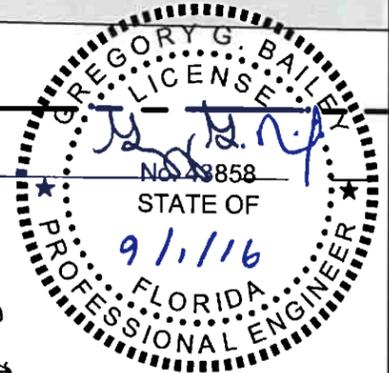
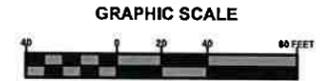
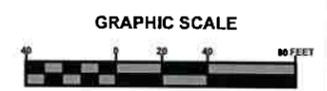
STA:135+16  
END 6" DOUBLE SOLID YELLOW

STA:135+36  
BEGIN 6" DOUBLE SOLID YELLOW

STA:138+55  
CONSTRUCT INTERSECTION AHEAD SIGN W/  
SW LEONARD TER. SIGN ON SAME POST  
W2-2R & W16-8P

STA:141+70  
CONSTRUCT INTERSECTION AHEAD SIGN W/  
SW MOLLIE TER. ROAD SIGN ON SAME POST  
W2-2R & W16-8P

STA. 143+55  
CONSTRUCT CURVE AHEAD  
W1-2L SIGN



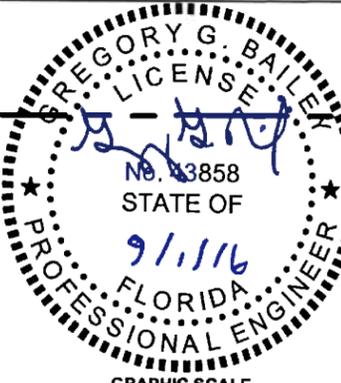
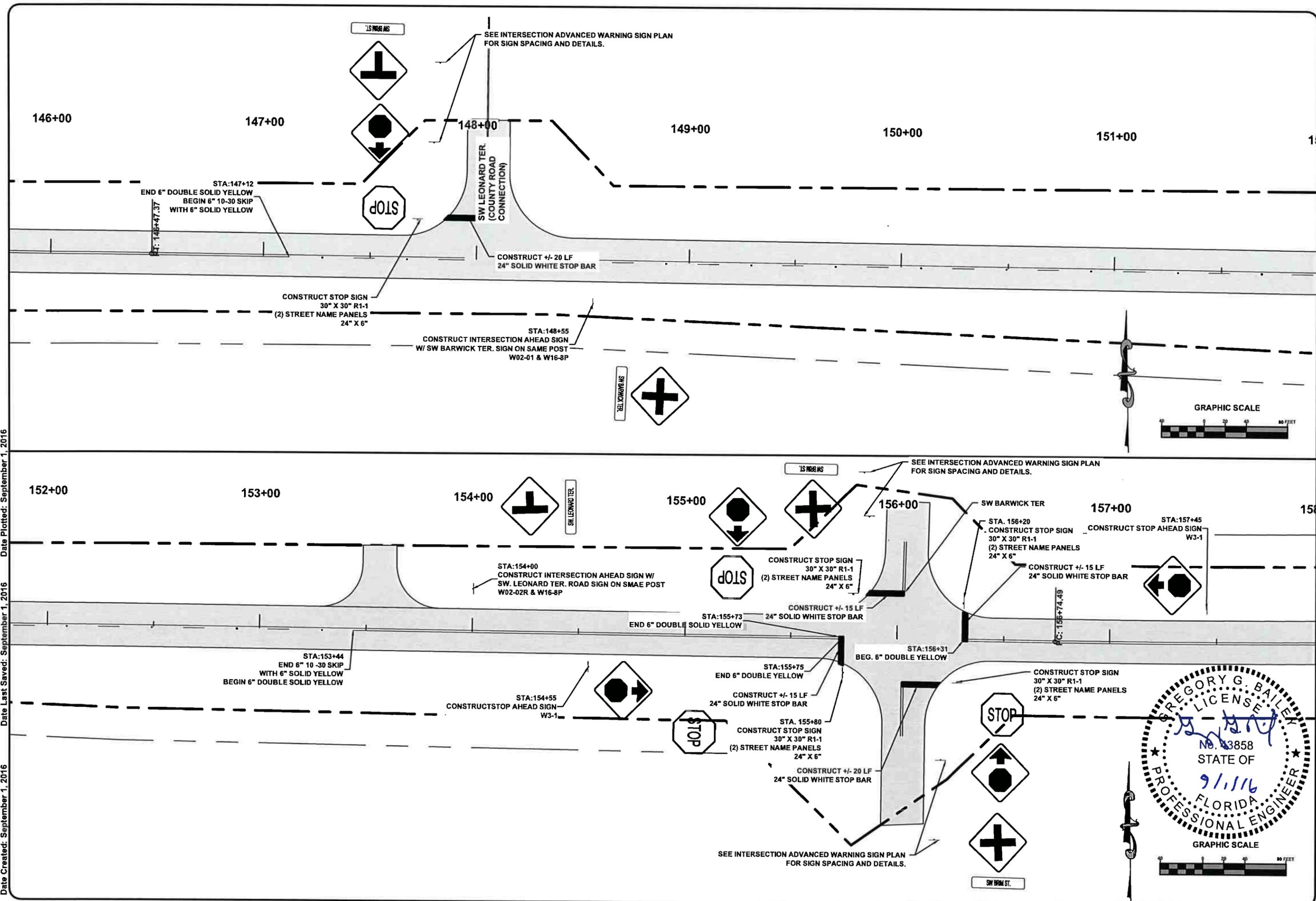
North Florida Professional Services, Inc.  
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 Lake City, FL 32025  
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 Fax. 386-752-4874  
 Eng. Lic. 28011

**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:

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DRAWN BY:	CM	CM	CM	GB
CHECKED BY:	CM	CM	CM	GB
DATE:	2/2014			
SHEET NO.:	82			

File Location: X:\2013\130715CCB\Planning & Design\CADD\cCBsigning01REV IS&M\_78  
 Date Created: September 1, 2016 Date Last Saved: September 1, 2016 Date Plotted: September 1, 2016

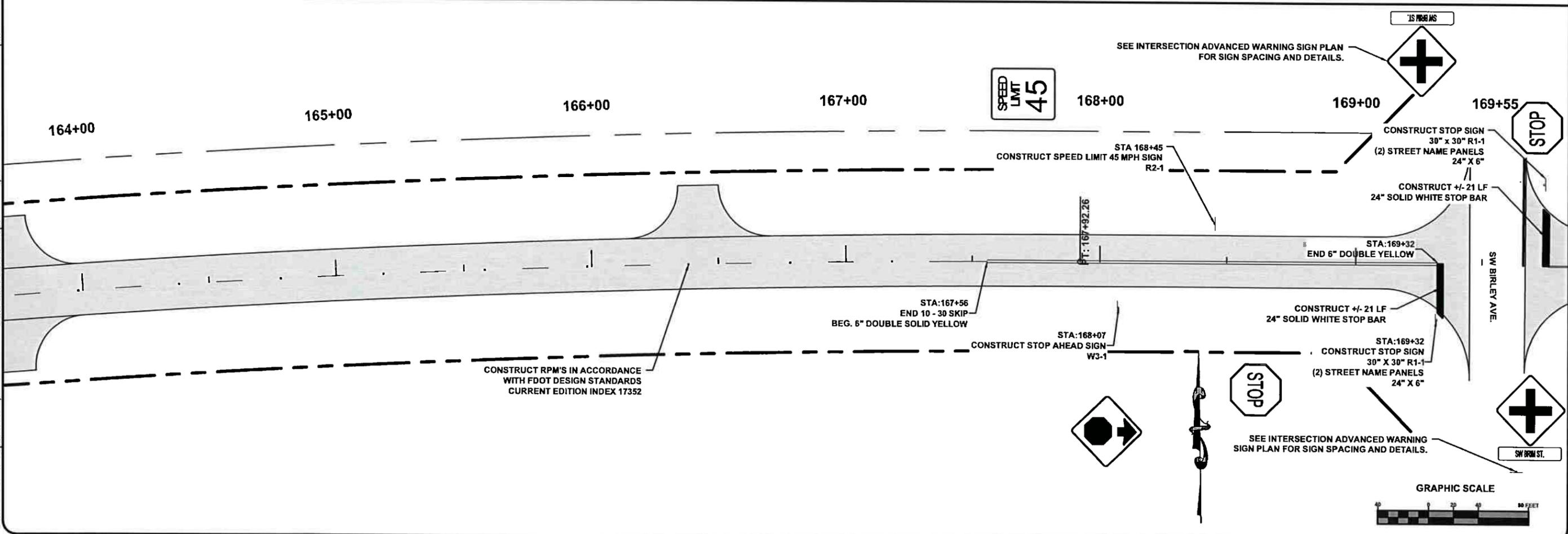
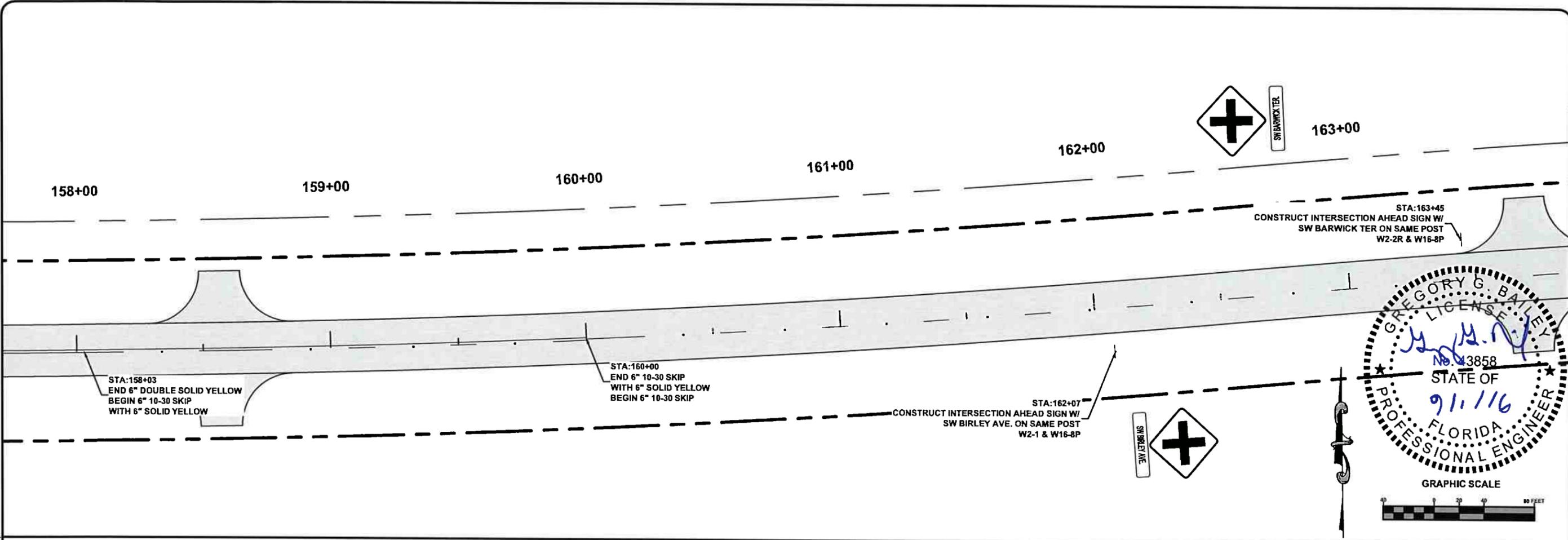


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 Eng. Lic. 29011

**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:  
 JOB NUMBER: L130715CCB  
 DESIGNED BY: DRAFTED BY: CHECKED BY: GB  
 DATE: 2/2014  
 SHEET NO.: 83

File Location: X:\2013\130715CCB\Planning & Design\CADD\CCB\signing\01REV IS&M\_79  
 Date Created: September 1, 2016  
 Date Last Saved: September 1, 2016  
 Date Plotted: September 1, 2016



GREGORY G. BALLEW  
 LICENSE NO. 3858  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 9/1/16

GRAPHIC SCALE  
 0 20 40 60 FEET

GRAPHIC SCALE  
 0 20 40 60 FEET

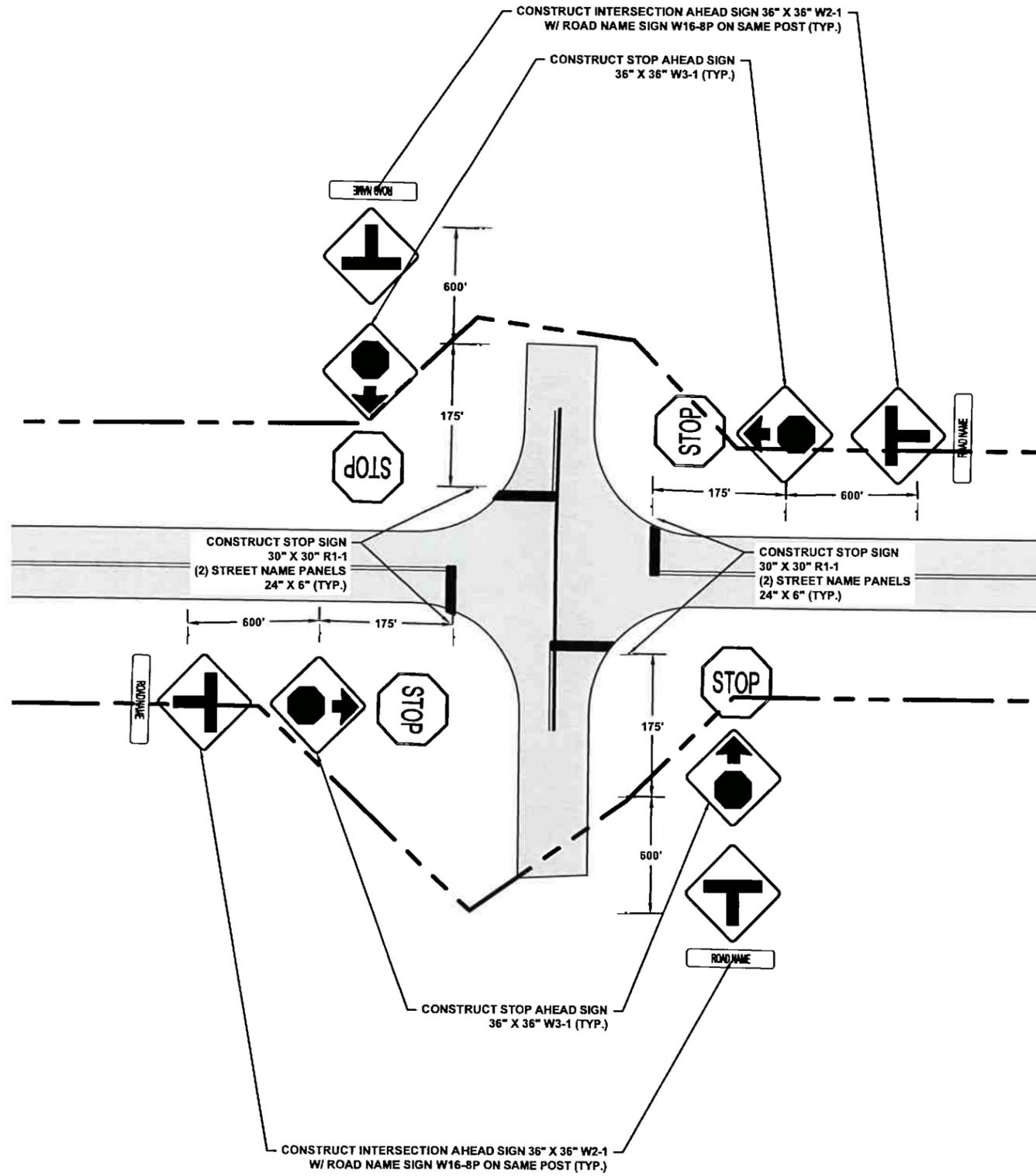
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

FLORIDA PROFESSIONAL ENGINEERING

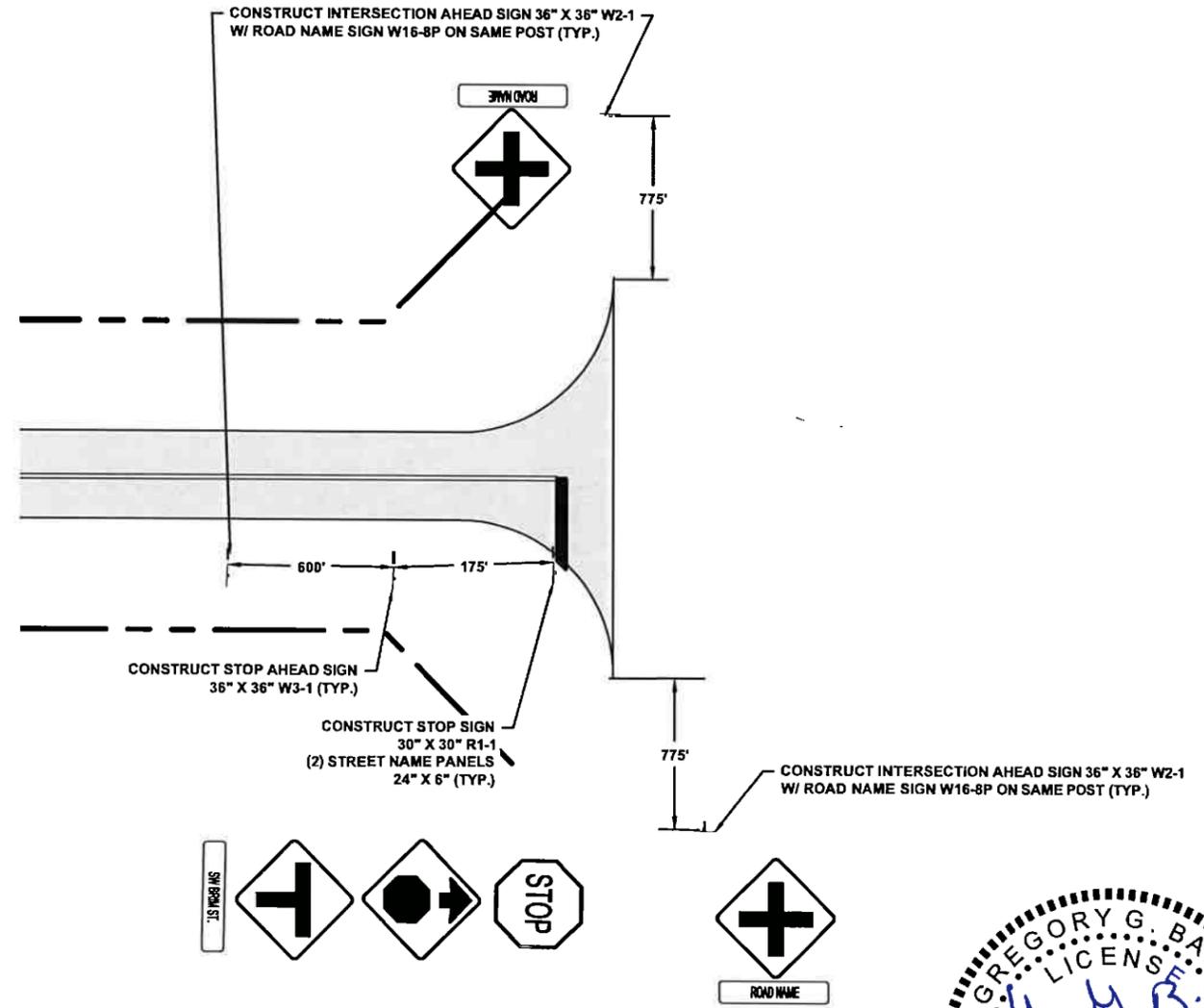
**SIGNING & PAVEMENT MARKINGS**  
 BRIM STREET  
 COLUMBIA COUNTY

REVISIONS:  
 JOB NUMBER: L130715CCB  
 DESIGNED BY: CM  
 DRAFTER BY: CM  
 CHECKED BY: GB  
 SIGNATURE & SEAL

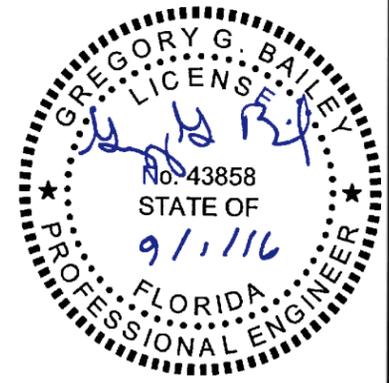
DATE: 2/2014  
 SHEET NO. 84



**1** TYPICAL FOUR WAY STOP INTERSECTION  
 85 SCALE: N.T.S.



**2** TYPICAL TEE INTERSECTION  
 85 SCALE: N.T.S.



BENCHMARK NAME	STATION	OFFSET	ELEVATION	DESCRIPTION
TBM17	14+50.08	-15.86'	112.30	NL & TAG IN PP. 6179-BM50
TBM16	17+21.13	-12.77'	114.85	NL IN PP
BM12	19+99.18	-10.17'	117.19	NL & TAG IN PPT
BM11	25+47.55	-20.86'	118.68	NL & TAG IN PPT
TBM15	30+50.94	127.14'	119.02	NL IN PP
BM1	34+47.69	-30.08'	112.36	NL & TAG IN PP
TBM1	41+07.84	-30.13'	109.20	NL IN PP
BM2	47+96.55	-21.92'	108.49	NL & TAG IN PP
TBM2	53+70.44	-12.74'	109.78	NL IN PP
BM3	61+47.50	-27.13'	118.53	RR SPIKE IN PAVEMENT
TBM3	65+81.60	-20.35'	117.94	NL IN PP
TBM4	72+27.39	-30.56'	114.07	NL IN PP
BM4	75+06.61	-30.67'	106.65	NL & TAG IN PP
TBM5	78+21.07	-30.17'	104.04	NL IN PP
BM5	87+70.77	-29.54'	121.08	NL & TAG IN PP
TBM6	91+16.39	-17.68'	116.58	NL IN PP
TBM7	95+13.49	-13.64'	117.79	NL IN PP
BM6	101+44.39	-70.24'	116.95	RR SPIKE IN PVMT
TBM8	109+07.52	-28.57'	118.95	NL IN PP
BM7	115+19.29	27.38'	120.35	NL & TAG IN PPT
TBM9	122+91.80	17.17'	112.97	NL IN PP
BM8	128+54.57	-47.95'	109.08	NL & TAG IN PP
TBM10	134+91.17	-32.14'	107.41	NL IN PP
TBM11	141+68.17	4.04'	103.09	NL IN PP
BM9	143+17.80	-38.65'	103.05	RR SPIKE IN 30" OAK
TBM12	148+38.30	12.80'	105.75	NL IN PP
BM10	155+98.53	-78.35'	104.11	RR SPIKE IN PAVEMENT
TBM13	160+47.08	10.07'	102.62	REBAR
TBM14	167+01.28	67.70'	103.66	REBAR



**BENCH MARK TABLE**  
 SW BRIM STREET  
 COLUMBIA COUNTY, FLORIDA

North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Eng. Lic. 28011  
 Fax. 386-752-4874

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