

**NOTICE TO ROAD CONTRACTORS  
COLUMBIA COUNTY PROJECT NO. 2008-02-A  
SW OLD WIRE ROAD**

Notice is hereby given that sealed bids will be received in the Columbia County Manager's office until 11:00 A.M. on October 13, 2010, for Columbia County Road Project 2008-02-A. This office is located on the second floor of the Courthouse Annex at 135 NE Hernando Avenue Room 203 Lake City, Florida 32055.

This project consists of improving SW Old Wire Road from SW Landrum Lane to County Road 240, a distance of 3.33 miles. Scope of work includes clearing and grubbing, grading, concrete and steel pipe culverts, stabilizing, limerock base, asphaltic concrete structural and surface, sodding, grassing, paint stripping, and incidental items.

The Bid Forms and Construction Specifications may be obtained from the County Manager's office during normal working hours (386) 755-4100.

The successful bidder will be required to furnish the County Manager with a performance bond and 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, Florida  
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 for 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. Unit price will prevail in case of errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or excepted if determined to be in the counties best interest.
11. Bids received late will not be accepted, and the County will not be responsible for late mail delivery.
12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids). Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.

13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds \$40,000.
14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and the County Manager that he has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.
21. The successful bidder on motor vehicle equipment shall be required to furnish with delivery of vehicle, certificate of origin and any other appropriate documentation as required by the Florida Motor Vehicle Department.
22. 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.

23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.
30. 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.
31. 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.

32. 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.
33. 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.
34. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; other wise, the bidder waives any such complaint.
35. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
36. 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.
37. 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.
38. 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.

**BID PROPOSAL**  
**ROAD PROJECT NO: 2008-02-A**  
**SW OLD WIRE ROAD**  
**COLUMBIA COUNTY, FLORIDA**

THE UNDERSIGNED hereby propose to furnish all materials, labor and supervision for the construction of the subject project inc conformance with the construction requirements and specifications for the following unit prices:

ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
1. Mobilization	Lump Sum	1		
2. Maintenance of Traffic	Lump Sum	1		
3. Clearing and Grubbing	Lump Sum	1		
4. Grading	Lump Sum	1		
5. Sub-soil Excavation	Cu. Yd.	500		
6. Concrete Pipe Culvert (24")	Lin Ft	520		
7. BCCSP (18" Side drain)	Lin Ft	512		
8. Corrugated Metal Pipe (18" Side drain)	Lin Ft	2000		
9. Concrete Mitered End Sections (24")	Each	16		
10. Concrete Mitered End Sections (18")	Each	100		
11. Stabilizing (LBR 40)	Lump Sum	1		
12. Commercial Stabilizing Material	Cu. Yd.	2800		
13. Limerock Base (6"Min.)	Sq. Yd.	49,550		
14. Asphaltic Concrete (Structural)	Ton	3640		
15. Asphaltic Concrete (S.P. 9.5, Virgin Mix)	Ton	2670		
16. Sodding (Bermuda)	Sq. Yd.	13700		
17. Seed and Mulch	Lump Sum	1		
18. Pavement Stripping	Lump Sum	1		
19. Staked Silt Fence	Lin Ft.	3100		
20. Borrow Material	Cu. Yd.	500		
21. Driveway Paving	Sq. Yd	4100		
22. Storm Water Basin	Lump Sum	1		
<b>TOTAL AMOUNT OF BID</b>				

- 5. May be increased, decreased or omitted
  - 6,7 & 8. Includes Miter Length
  - 9 & 10 Excludes Pipe
  - 12. Estimated quantity (2") may be increased or decreased
  - 18. Includes centerline, edge lines and stop bars at all paved intersections. Two Applications required for final stripping.
  - 19. To be placed at all areas of potential storm water run off as directed by the Engineer.
  - 20. Payment by truck measure (Contingent item)
  - 21. Six inch thick limerock with 150# Asphaltic Concrete (S.P. 9.5)
  - 22. Includes all work requirements beyond roadway Right-of-way.
- ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS....

**FIRM**

**BY**

**President**

**(Seal)**

**ATTEST**

COLUMBIA COUNTY PROJECT # 2008-02-A

# SW OLD WIRE RD

## CONSTRUCTION PLANS

PHASE I - STA 320+00.00 TO 496+50.00

FOR:  
**CCBCC**  
 Lisa Roberts  
 PO Box 1529  
 Lake City, FL 32055  
 Phone: (386) 758-1005



GTC Design Group, LLC.  
 Auth. # 9481  
 Structural / Civil Engineers  
 www.gtcdesigngroup.com

**Live Oak**  
 P.O. Box 187  
 130 West Howard Street  
 Live Oak, FL 32064  
 Phone: (386) 362-3678  
 Fax: (386) 362-6133

**Lake City**  
 176 NW Lake Jeffery Rd  
 Lake City, FL 32055  
 Phone: (386) 719-9985  
 Fax: (386) 719-8828  
 www.gtcdesigngroup.com

Chadwick W. Williams, PE 63144  
 Auth. #: 9461

TOTAL PROJECT LENGTH = ±17,625 LF = 3.33 MILES  
**FINAL CONSTRUCTION PLANS 9-20-10**

### SHEET INDEX

1	GENERAL NOTES AND DETAILS
2	SITE PLAN / KEY SHEET
PP46 - PP72	PLAN & PROFILE SHEETS
XSC1 - XSC32	CROSS SECTIONS
3	MASS DIAGRAM
4	STORMWATER PLAN
5	EROSION CONTROL DETAILS
6	MISCELLANEOUS NOTES & DETAILS
7	STRIPING PLAN

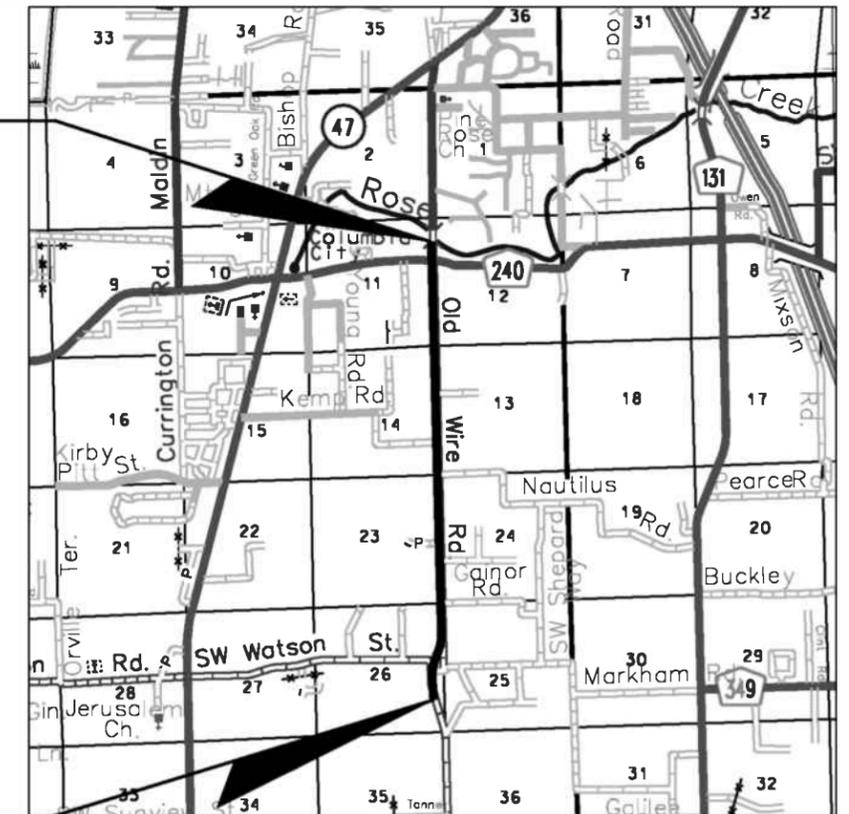
### LEGEND

EXISTING		PROPOSED	
CONCRETE MONUMENT FOUND	□	TELEPHONE POLE	⊕
IRON PIPE FOUND	○	TELEPHONE MANHOLE	⊕
ELECTRIC METER	⊕	ELECTRIC MANHOLE	⊕
ELECTRIC MANHOLE	⊕	ELECTRIC METER	⊕
LIGHT STANDARD	○	LIGHT	○
POWER POLE	—	STANDARD POWER POLE	◇
SHARED POWER POLE W/ TRANSFORMER	—	POWER POLE SHARED	◇
SHARED POWER POLE	—	POWER POLE SHARED W/ TRANSFORMER	◇
TELEPHONE POLE	—	GAS METER	⊕
REDUCER	>	GAS VALVE	⊕
WATER METER	⊕	WATER METER	⊕
WATER VALVE	⊕	WATER VALVE	⊕
FIRE HYDRANT	⊕	WATER REDUCER	⊕
BACKFLOW PREVENTER	⊕	WATER TEE	⊕
SANITARY SEWER VALVE	⊕	WATER 90° BEND	⊕
SANITARY MANHOLE	⊕	SINGLE WATER SERVICE	⊕
STORMWATER MANHOLE	⊕	DOUBLE WATER SERVICE	⊕
FDOT STORMWATER MANHOLE	⊕	FIRE HYDRANT	⊕
GROUND CONTOUR	—	BACKFLOW PREVENTER	⊕
D.O.T. MARKER FOUND	*	SANITARY MANHOLE	⊕
GAS METER	⊕	SANITARY VALVE	⊕
GAS VALVE	⊕	SANITARY SINGLE SERVICE	⊕
SOIL BORING LOCATION	⊕	SANITARY DOUBLE SERVICE	⊕
SINGLE POST SIGN	—	GROUND CONTOUR	—
BENCH MARK	⊕	DITCH BLOCK	⊕
SECTION CORNER	+	STORMWATER MANHOLE	⊕
RIGHT OF WAY	—	FLOW ARROW	→
PROPERTY LINE	—	HANDICAP PARKING	⊕
		MITERED END	⊕
		SIGN	⊕
		RIGHT OF WAY	—

### ABBREVIATIONS

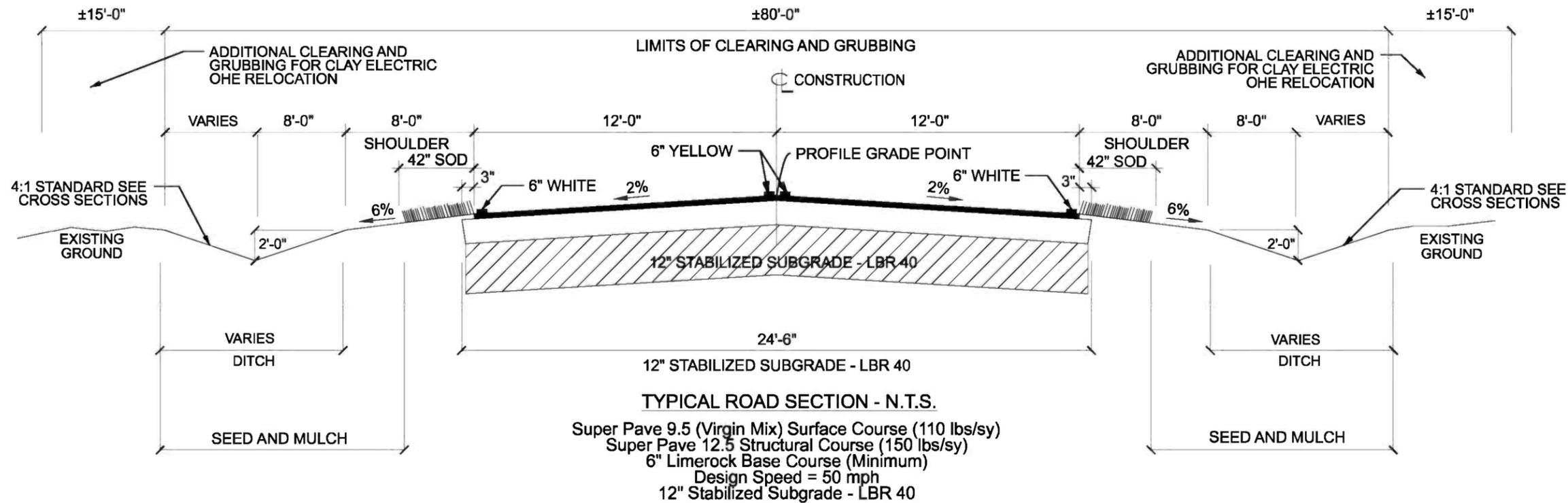
PL	PROPERTY LINE	IP	IRON PIPE
CL	CENTER LINE	MH	MANHOLE
BL	BASE LINE	G	GAS
SAN	SANITARY SEWER	UC	UNDERGROUND CABLE
ST	STORM SEWER	OC	OVERHEAD CABLE
E	ELECTRIC	W	WATER LINE
OHE	OVERHEAD ELECTRIC	HDPE	HIGH-DENSITY POLYETHYLENE
UG	UNDERGROUND ELECTRIC	RCP	REINFORCED CONCRETE PIPE-ROUND
OHT	OVERHEAD TELEPHONE	RCPA	REINFORCED CONCRETE PIPE-ARC
UT	UNDERGROUND TELEPHONE	RCPE	REINFORCED CONCRETE PIPE-ELLIPTICAL
R	RADIUS	CMP	CORRUGATED METAL PIPE-ROUND
CO	CLEANOUT	CMPA	CORRUGATED METAL PIPE-ARC
BM	BENCH MARK	BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
IE	INVERT ELEVATION	BCCSP	BITUMINOUS COATED CORRUGATED STEEL PIPE
LF	LINEAR FEET		

END PROJECT  
 STA 496+50.00



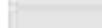
LOCATION MAP

SECTION 11,12,13,14,23,24,25,26 TOWNSHIP 5 SOUTH, RANGE 16 EAST  
 COLUMBIA COUNTY, FLORIDA



**TYPICAL ROAD SECTION - N.T.S.**  
 Super Pave 9.5 (Virgin Mix) Surface Course (110 lbs/sy)  
 Super Pave 12.5 Structural Course (150 lbs/sy)  
 6" Limerock Base Course (Minimum)  
 Design Speed = 50 mph  
 12" Stabilized Subgrade - LBR 40

- NOTE:**
- SEE DONALD F. LEE & ASSOC. RIGHT OF WAY MAPS FOR RIGHTS-OF-WAY
  - SEE PLAN/PROFILE SHEETS FOR ADDITIONAL CLEARING AND GRUBBING FOR CLAY ELECTRIC OVERHEAD RELOCATION. (SEE TABULATION THIS SHEET)

-  HATCH DENOTES PROPOSED ASPHALT
-  HATCH DENOTES EXISTING COUNTY GRADED ROAD

**ADDITIONAL CLEARING AND GRUBBING (15' WIDTH) TABULATION**

- ±STA 317+75 TO ±STA 322+70 (LT)
- ±STA 393+18 TO ±STA 402+80 (RT)
- ±STA 429+54 TO ±STA 438+45 (RT)
- ±STA 447+29 TO ±STA 456+12 (RT)
- ±STA 479+70 TO ±STA 490+80 (RT)
- ±STA 393+18 TO ±STA 402+80 (RT)

**PROJECT CONTACTS**

- |   |  |
|---|--|
| GTC DESIGN GROUP<br>(386) 719-9985                | AT&T<br>(386) 758-4000                       |
| COLUMBIA COUNTY PUBLIC WORKS<br>(386) 752-1019    | CLAY ELECTRIC<br>(386) 961-0103              |
| SUWANNEE RIVER WATER MANAGEMENT<br>(396) 362-1001 | COLUMBIA COUNTY FIRE / EMS<br>(386) 758-2115 |
|   | COLUMBIA COUNTY SHERIFF<br>(386) 719-2026    |

**GENERAL NOTES**

- The contractor shall verify all existing conditions and dimensions at the job site to insure that all new work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of such differences immediately prior to proceeding with the work.
- The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
- Boundary and topographical information shown was obtained from a survey performed by Donald F. Lee & Associates, Inc. # LB 7042.
- Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
- The site is located in Sections 17,18,19 Township 6 South, Range 16 East, Columbia County, Florida.
- Contractors shall adhere to the Erosion Control Plan. All erosion control measures shall be implemented prior to construction and be continued until construction is complete.
- All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.

- All sidedrains shall be constructed at location as specified by County Engineer.
- The location of the utilities shown in the plans is approximate only. The exact location shall be determined by the contractor during construction.
- Contractor shall coordinate all work with other contractors within project limits.
- All stormwater pipes shall have a minimum cover of 6". Use Limerock backfill if pipe under pavement has less than 12" cover.
- All existing stormwater structures and pipes shall be removed.
- All erosion control measures shall be implemented prior to construction and be continued until construction is complete. Contractor shall take necessary measures to minimize erosion, turbidity, nutrient loading and sedimentation to adjacent lands and low areas. The Erosion and Sediment Control Plan shall be maintained as designed and upgraded as needed as directed by Engineer or SRWMD personnel. Construction designs and specifications as outlined by the "Florida Erosion and Sediment Control Inspectors Manual" shall be adhered to.

- Contract Time – The contract time will be 450 calendar days from the date of contract execution. Liquidated damages shall be \$300 per calendar day. No work allowed on Saturdays, Sundays, and designated county holidays.
- Construction and Materials – All construction and materials shall conform to the requirements of the Florida Department of Transportation Specifications for Road and Bridge Construction, Latest Edition. Certification by an approved testing laboratory is required (contractor responsibility). Payment shall be as specified in the bid proposal.
- Maintenance of Traffic – One traffic lane may be closed during working hours only. Flagging will be required and provided by contractor. All construction signing necessary for the protection of workers and motorist shall be provided by the contractor. Centerline striping (temporary on pavement) will be required following each day of asphaltic concrete application.
- All construction signage shall be the responsibility of the contractor.
- Regulatory signage shall be performed by Columbia County forces after project completion.

**REVISION NOTES**

DATE 9-20-10

P.O. BOX 187  
 130 W HOWARD ST  
 LIVE OAK FL, 32064  
 PHONE: (386) 362-3678  
 FAX: (386) 362-6133

**GTC**  
 GTC Design Group, LLC, 176 NW LAKE JEFFREY RD  
 LAKE CITY, FL 32055  
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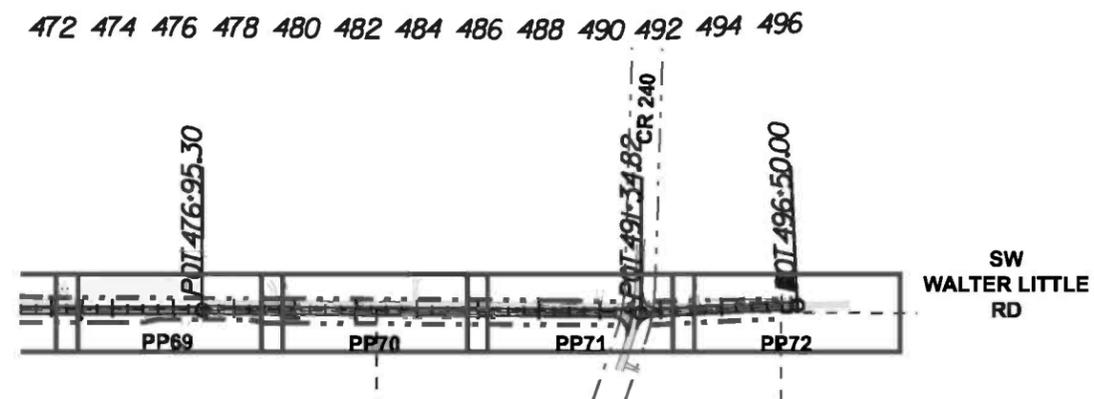
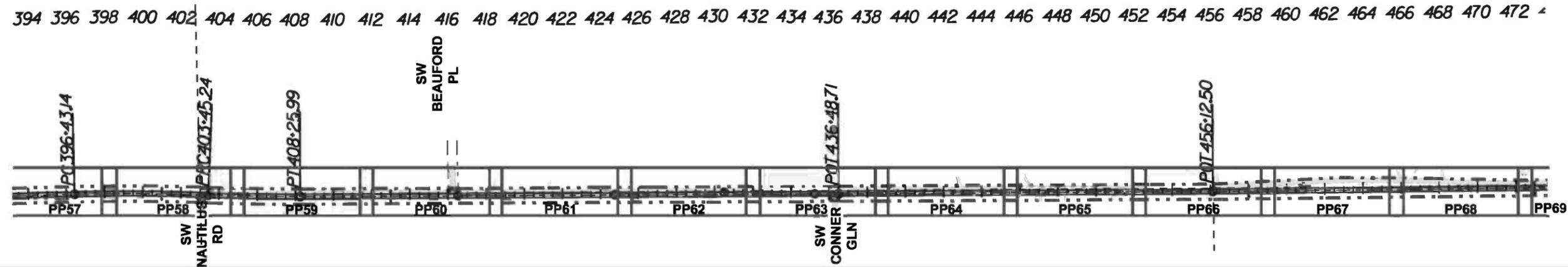
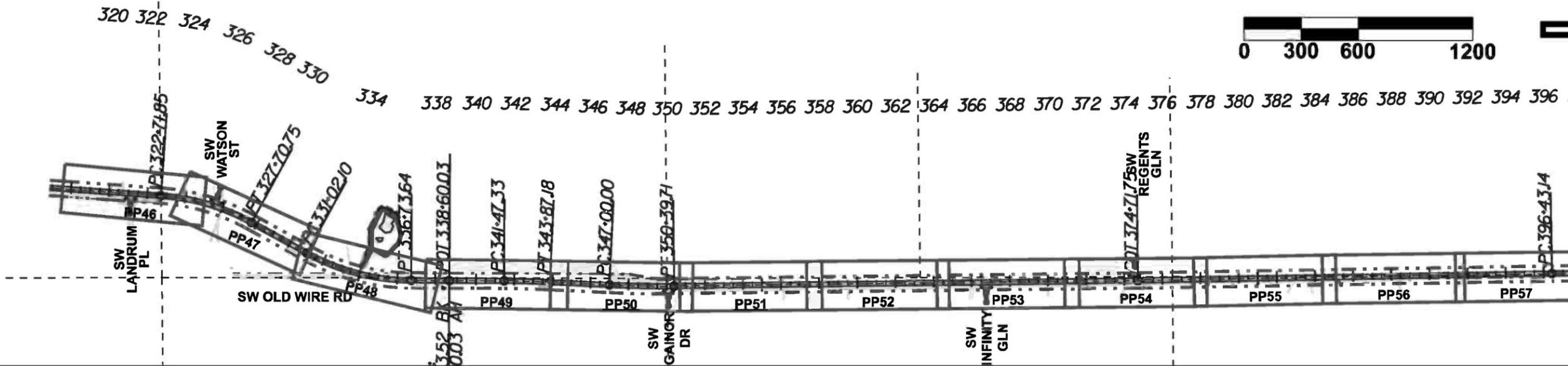
**CCBCC - OLD WIRE RD**

**GENERAL NOTES & DETAILS**

DRAWN BY MC CHECKED BY CW

PROJECT NUMBER  
**PF08-127**

SHEET  
**1**



DATE	REVISION NOTES
9-20-10	

P.O. BOX 187  
 130 W HOWARD ST  
 LIVE OAK FL, 32064  
 PHONE: (386) 362-3678  
 FAX: (386) 362-6133

176 NW LAKE JEFFREY RD  
 LAKE CITY, FL 32065  
 Phone: (386) 719-9985  
 Fax: (386) 719-8828

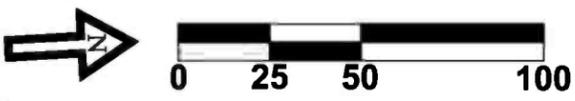
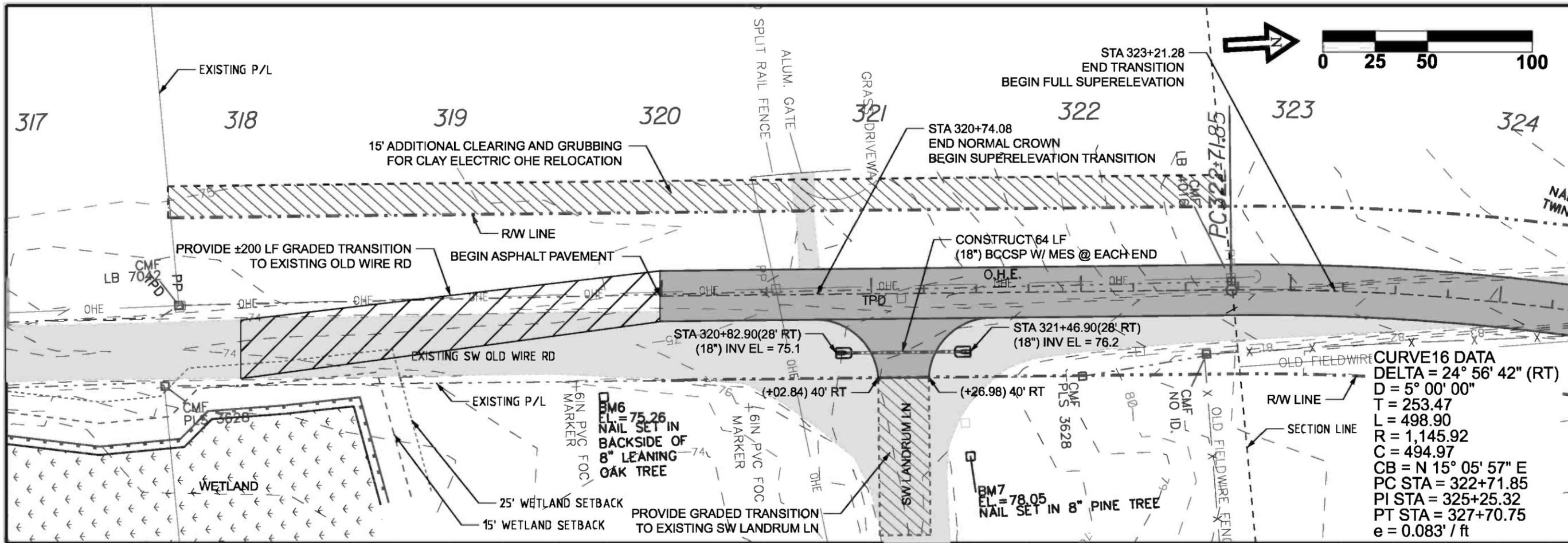


**CCBCC-OLD WIRE RD  
 KEY SHEET  
 & OVERALL SITE PLAN**

DRAWN BY: MC  
 CHECKED BY: CW

PROJECT NUMBER  
**PF08-127**

SHEET  
**2**



DATE	REVISION NOTES
9-20-10	

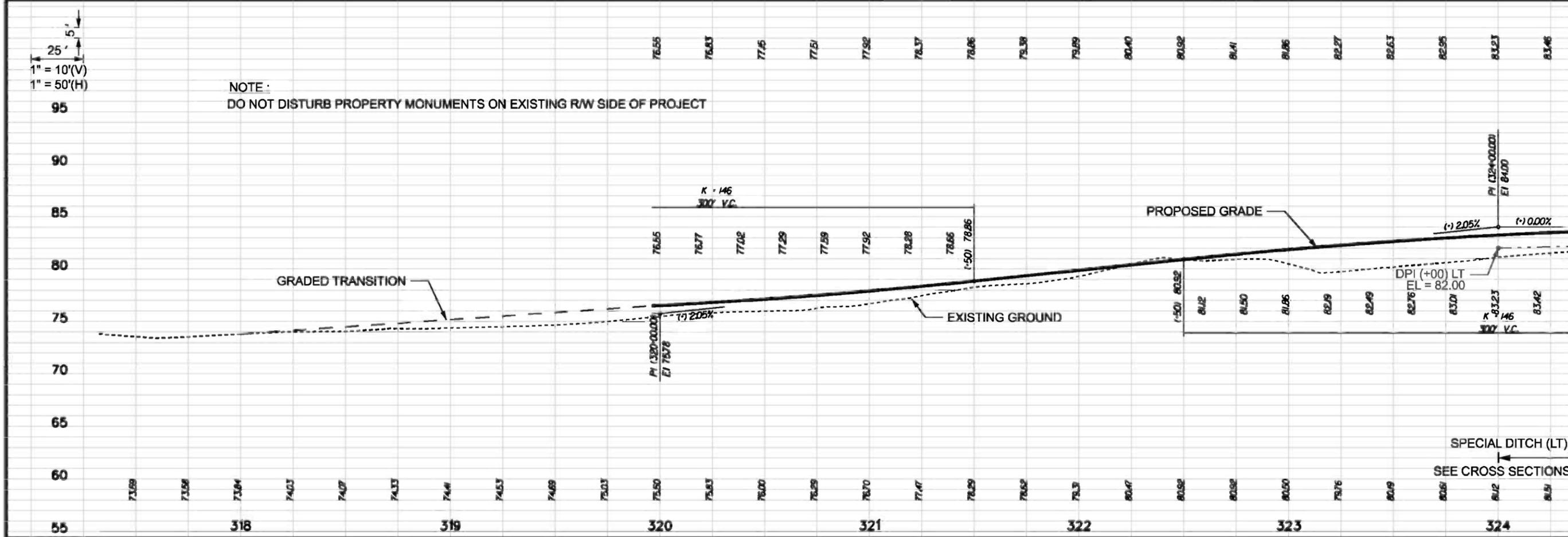
P.O. BOX 187  
130 W HOWARD ST  
LIVE OAK FL, 32064  
PHONE: (386) 362-3678  
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GTC Design Group, LLC. 176 NW LAKE JEFFREY RD  
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**CCBCC - OLD WIRE RD**

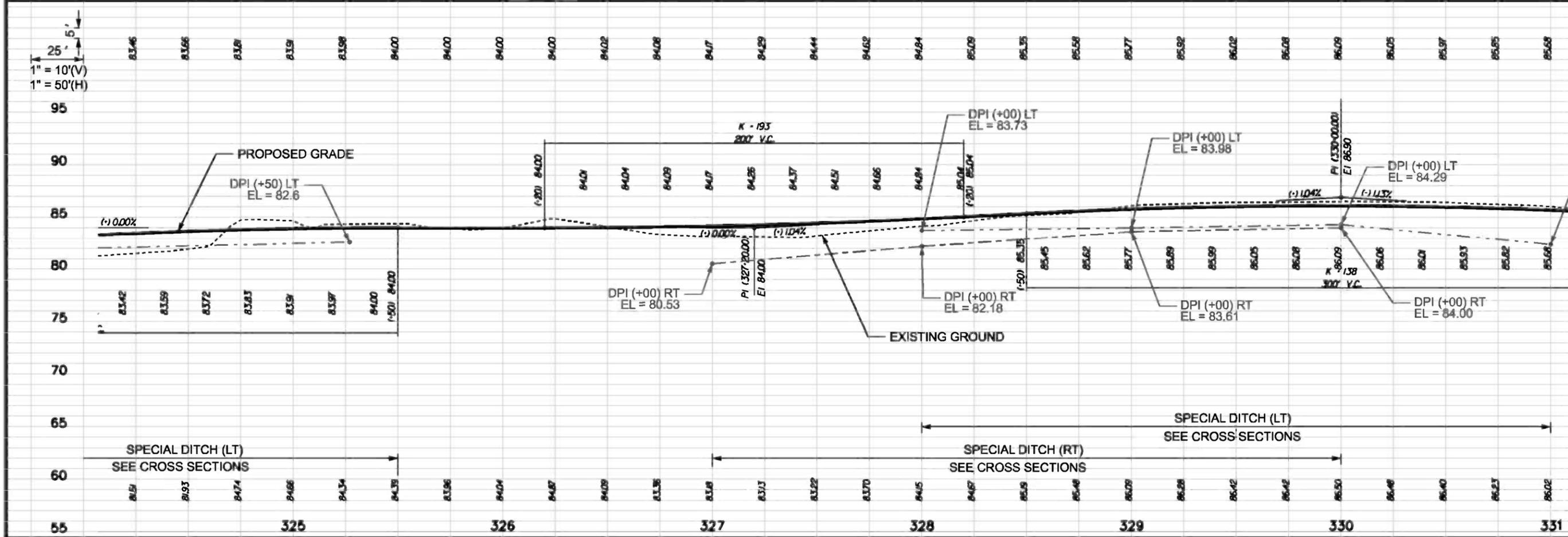
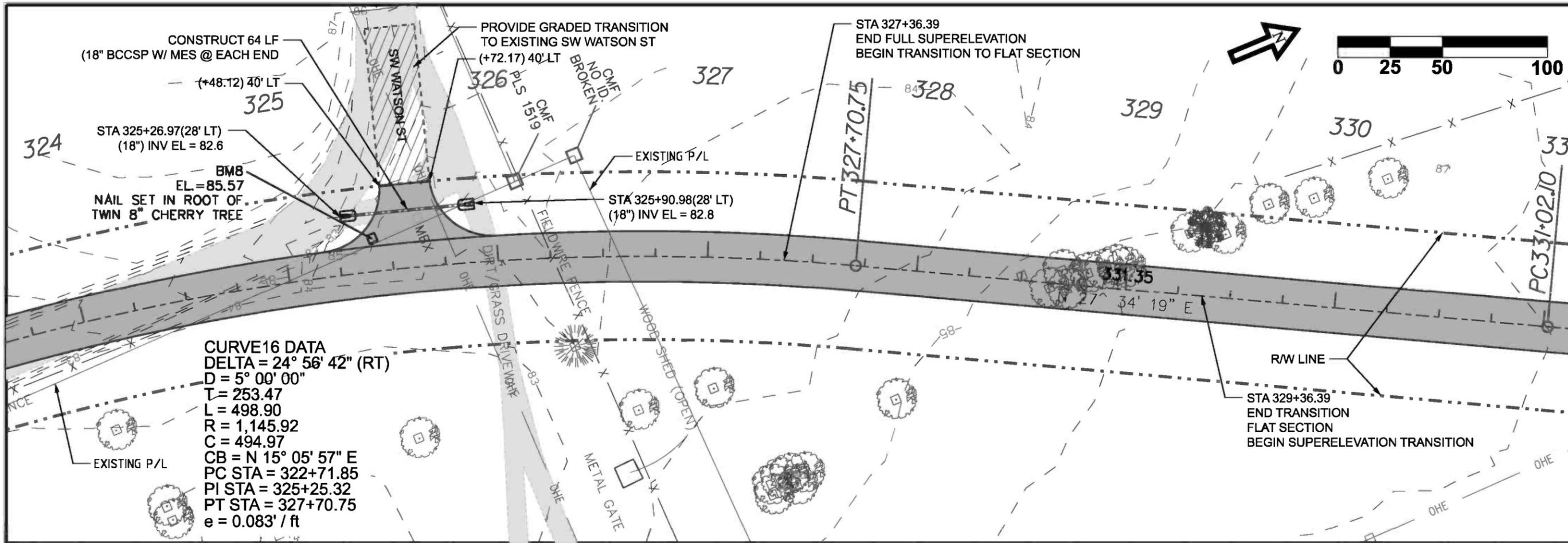
**PLAN & PROFILE**

**CENTERLINE # 1**



NOTE:  
DO NOT DISTURB PROPERTY MONUMENTS ON EXISTING R/W SIDE OF PROJECT

DRAWN BY <b>MC</b>	CHECKED BY <b>CW</b>
PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>PP46</b>	



DATE	REVISION NOTES
9-20-10	

P.O. BOX 187  
130 W HOWARD ST  
LIVE OAK FL, 32064  
PHONE: (386) 362-3678  
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176 NW LAKE JEFFREY RD  
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Structural / Civil Engineers  
www.gtcdesigngroup.com

**CCBCC - OLD WIRE RD**

**PLAN & PROFILE**

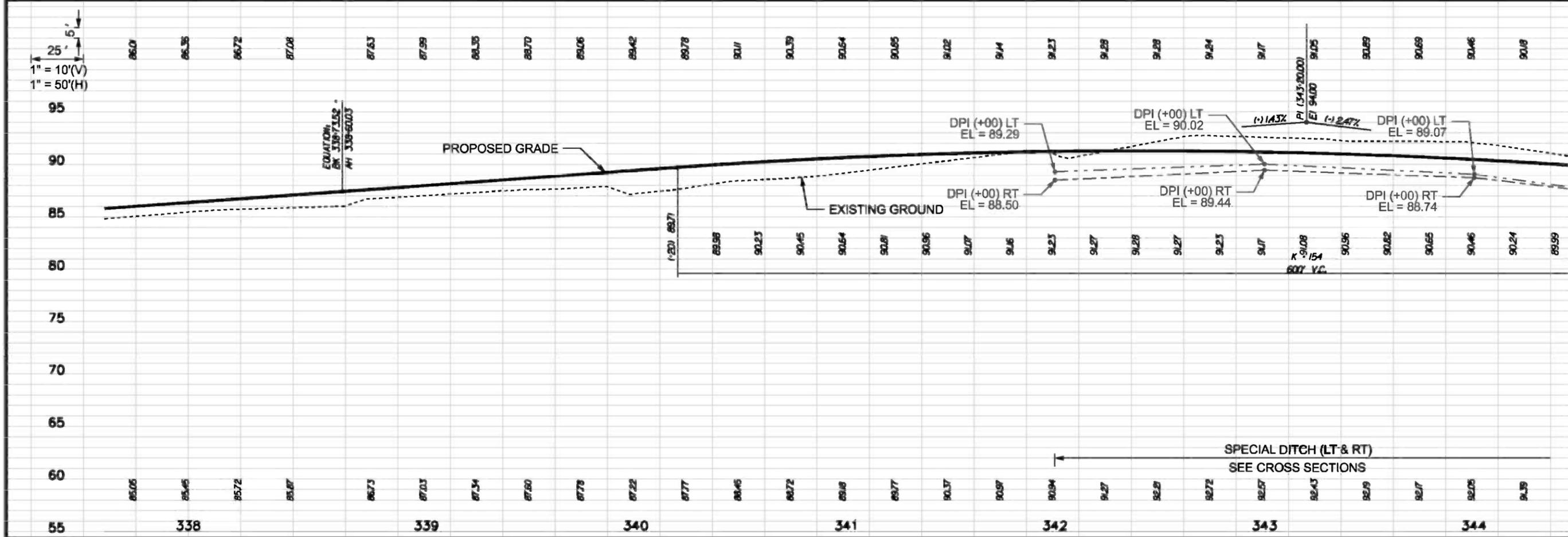
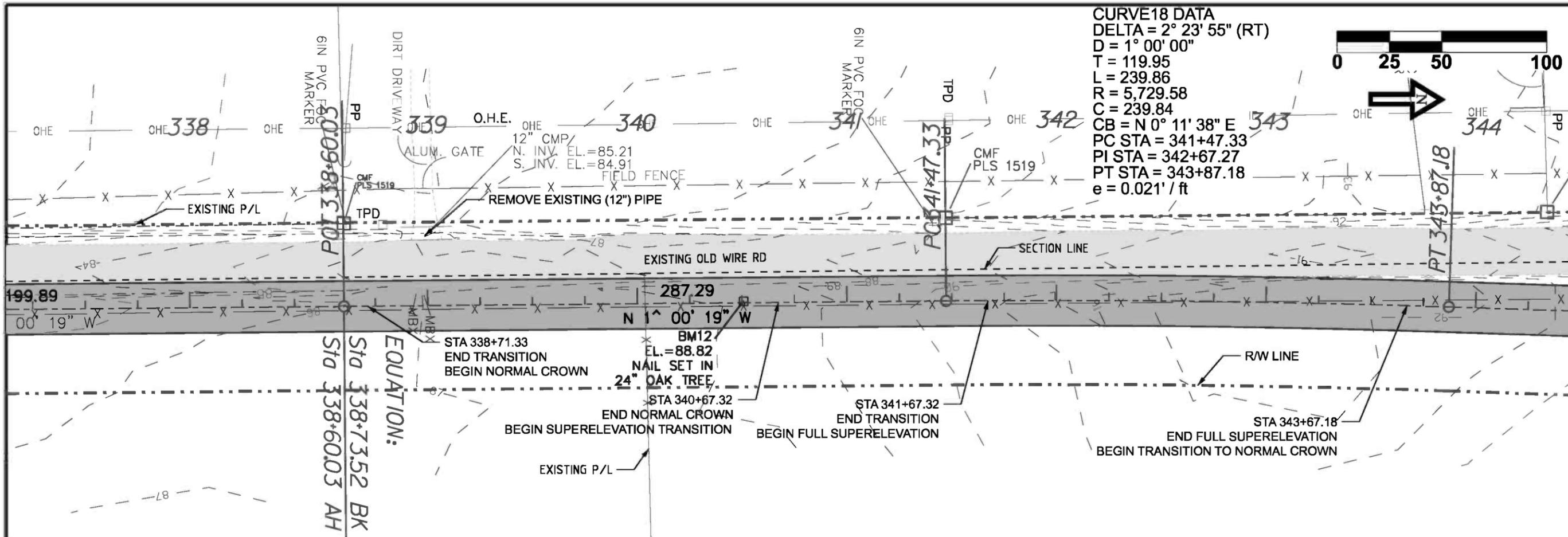
**CENTERLINE # 1**

DRAWN BY: MC  
CHECKED BY: CW

PROJECT NUMBER: PF08-127

SHEET: PP47





DATE	REVISION NOTES
9-20-10	

P.O. BOX 187  
 130 W HOWARD ST  
 LIVE OAK FL, 32064  
 PHONE: (386) 362-3678  
 FAX: (386) 362-6133

**GTC**  
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**PLAN & PROFILE**

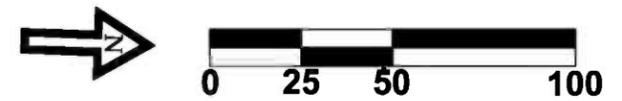
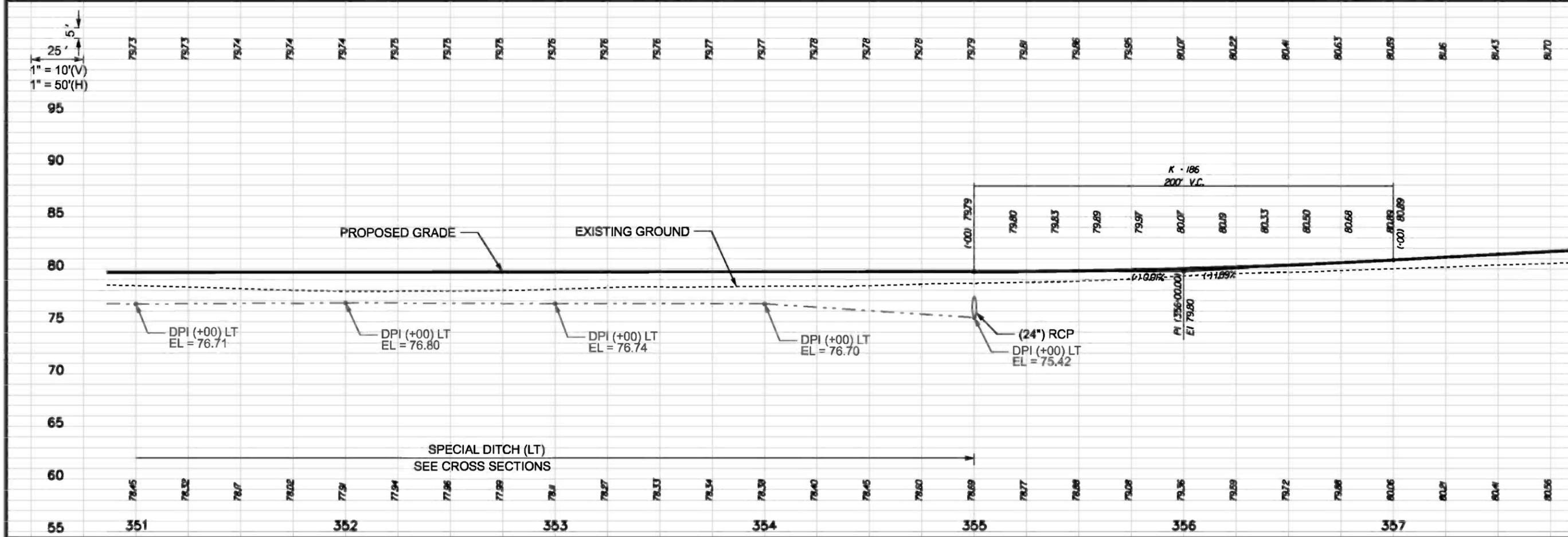
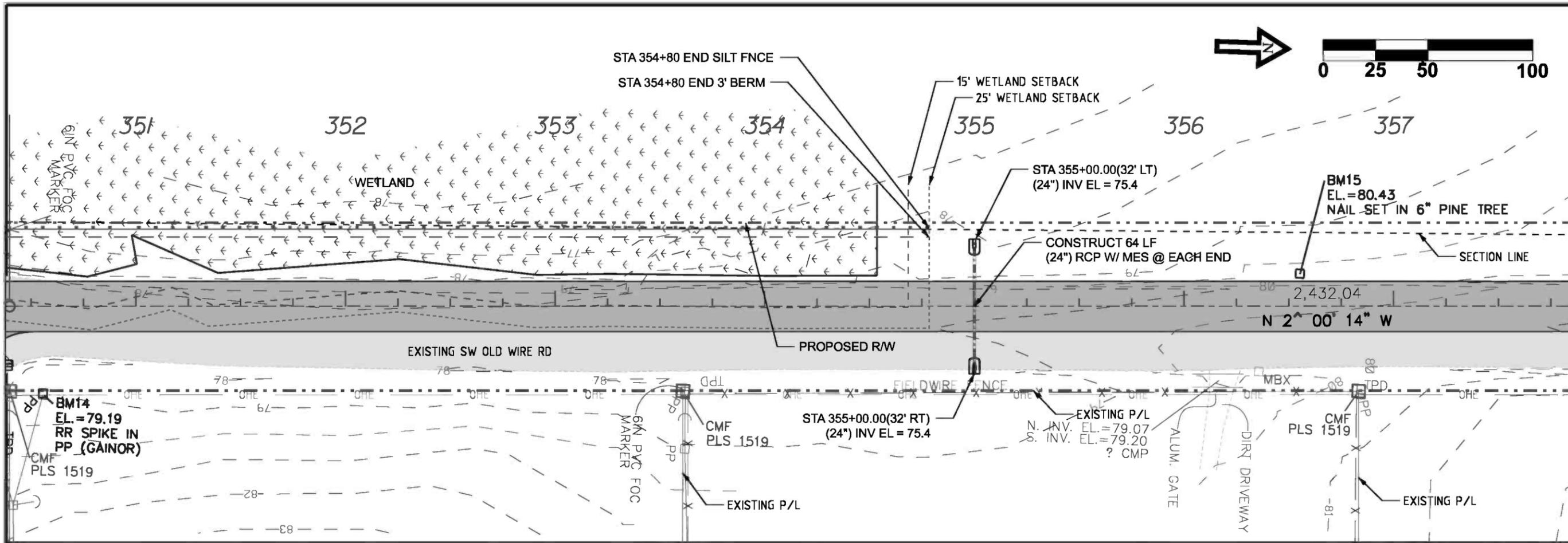
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**CHECKED BY** CW

**PROJECT NUMBER**  
**PF08-127**

**SHEET**  
**PP49**





DATE	REVISION NOTES
9-20-10	

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**PLAN & PROFILE**

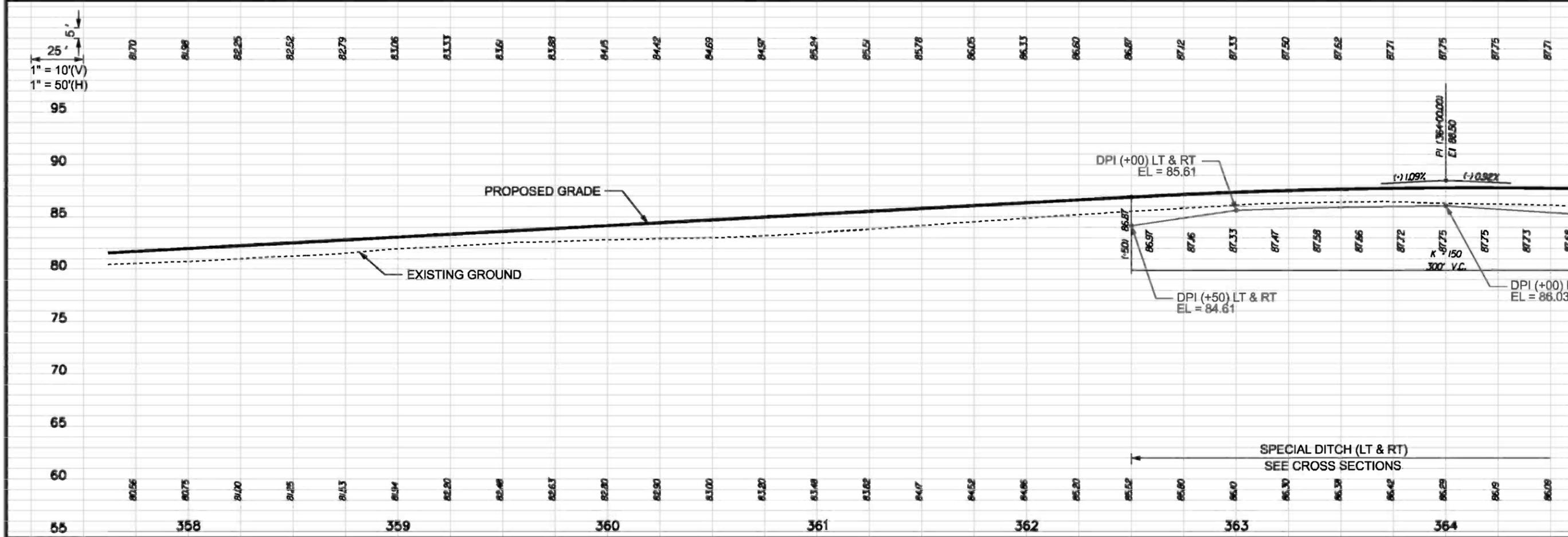
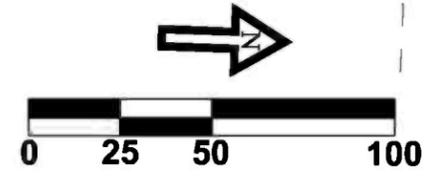
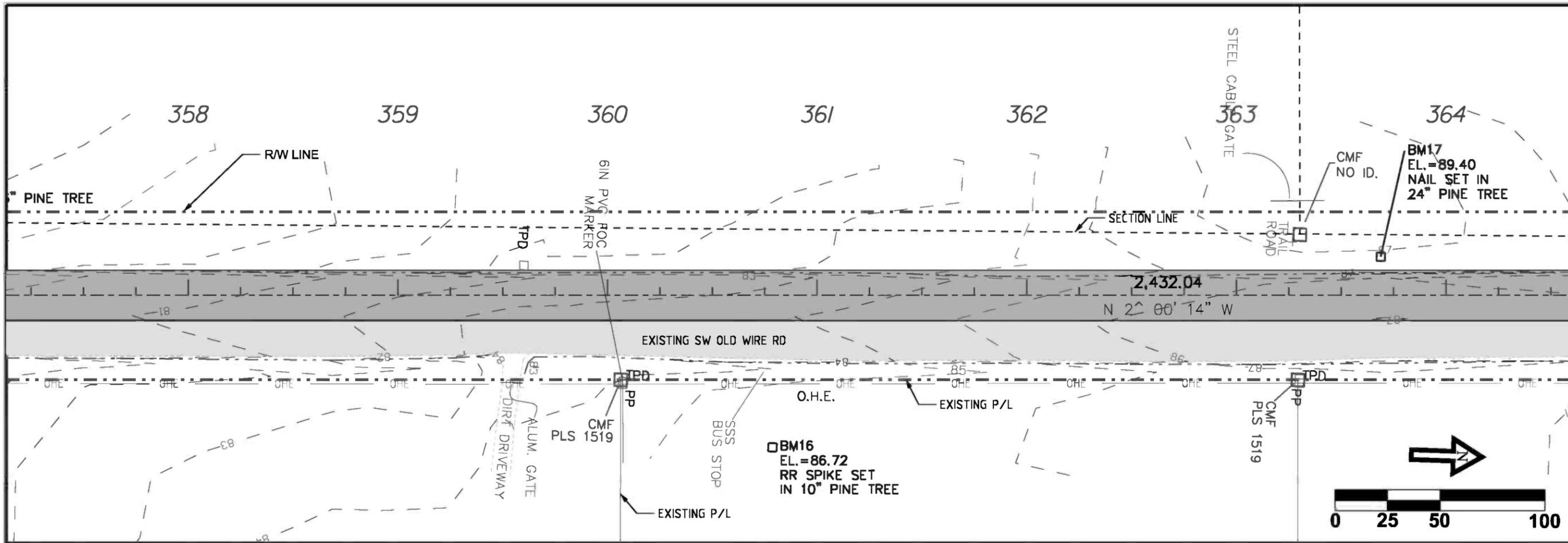
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PROJECT NUMBER: **PF08-127**

SHEET: **PP51**



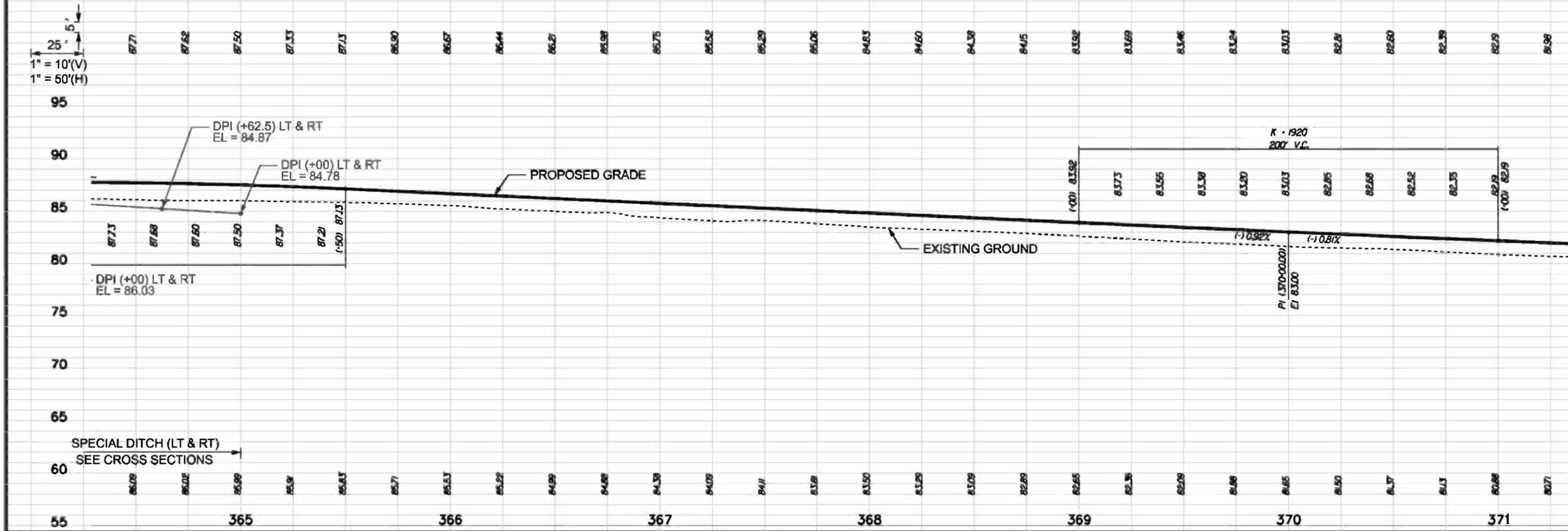
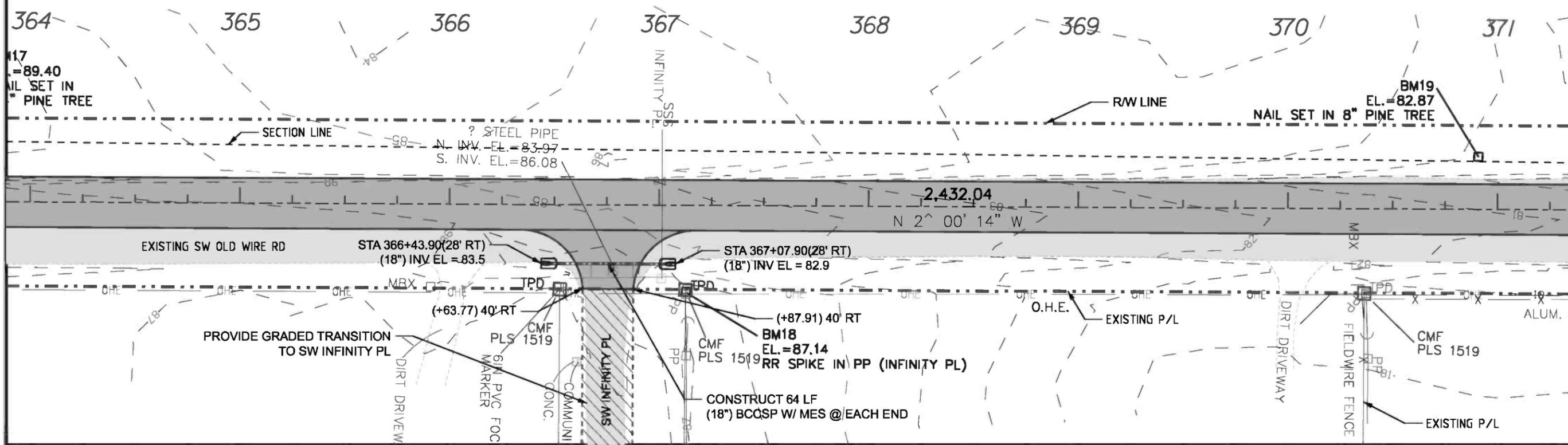
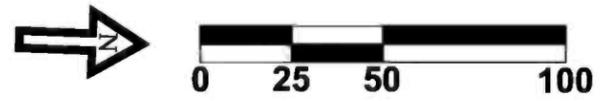
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PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>PP52</b>	



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9-20-10	

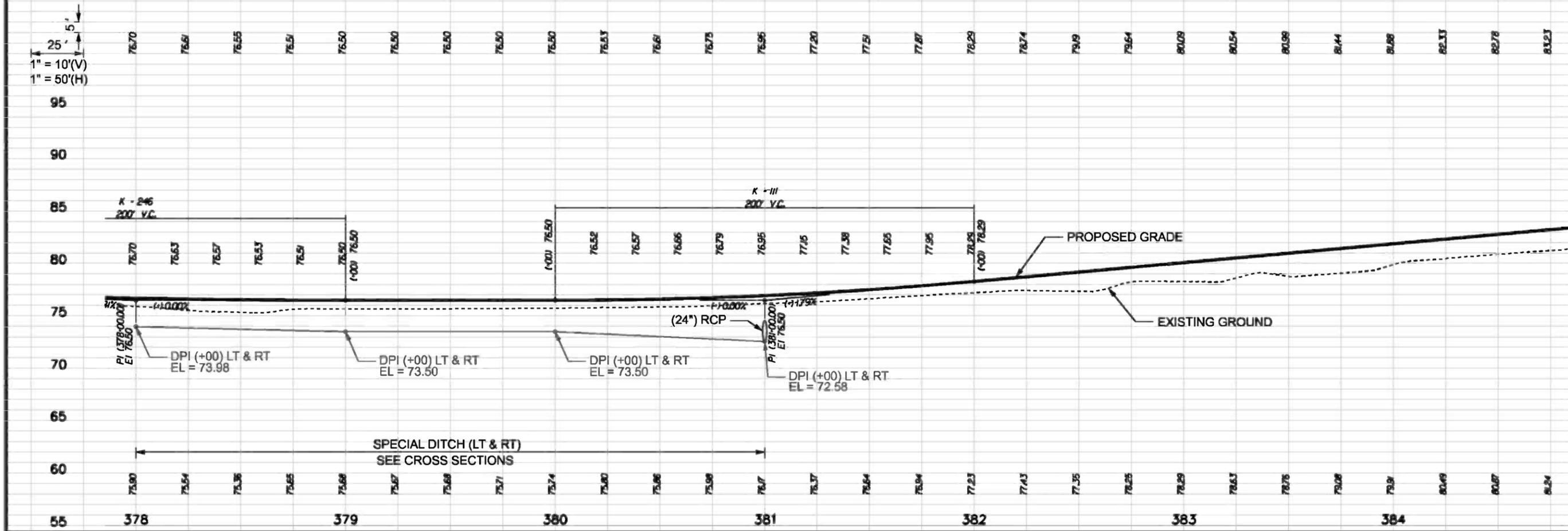
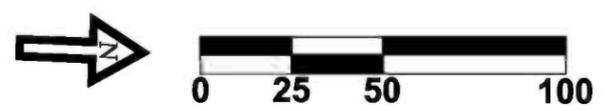
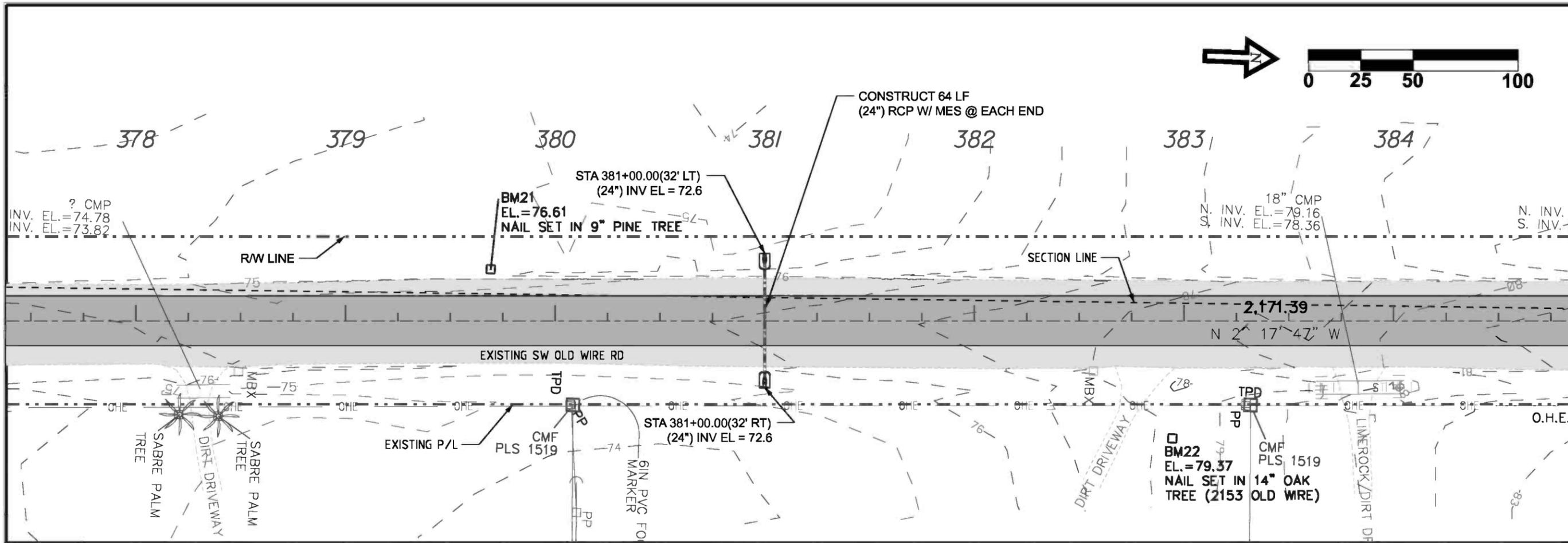
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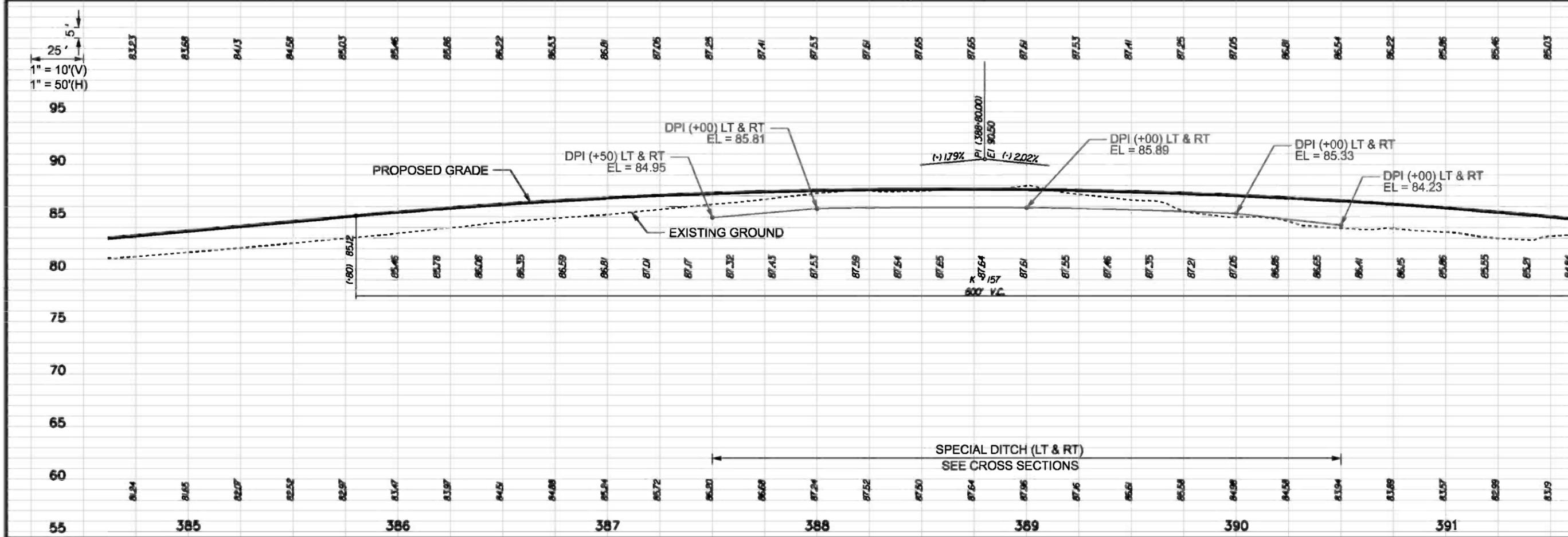
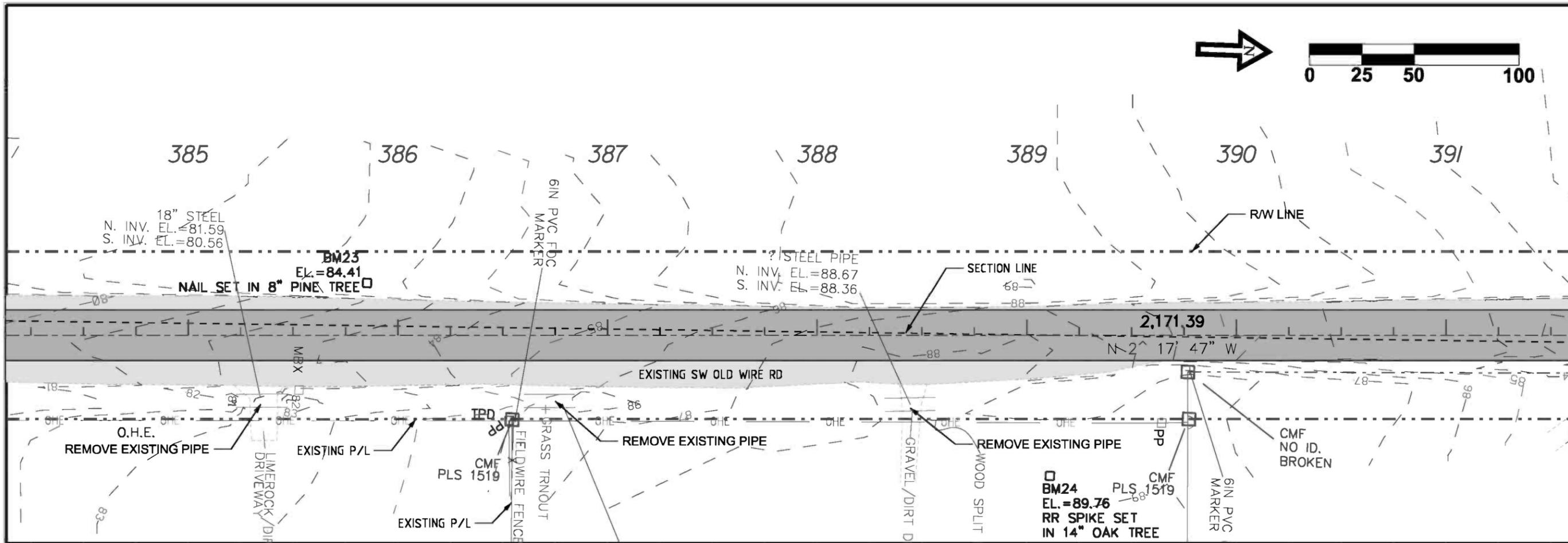
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SHEET <b>PP55</b>	



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9-20-10	

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130 W HOWARD ST  
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PHONE (386) 362-3678  
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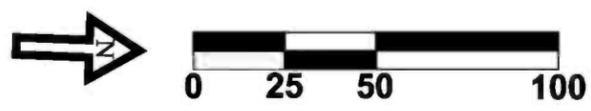
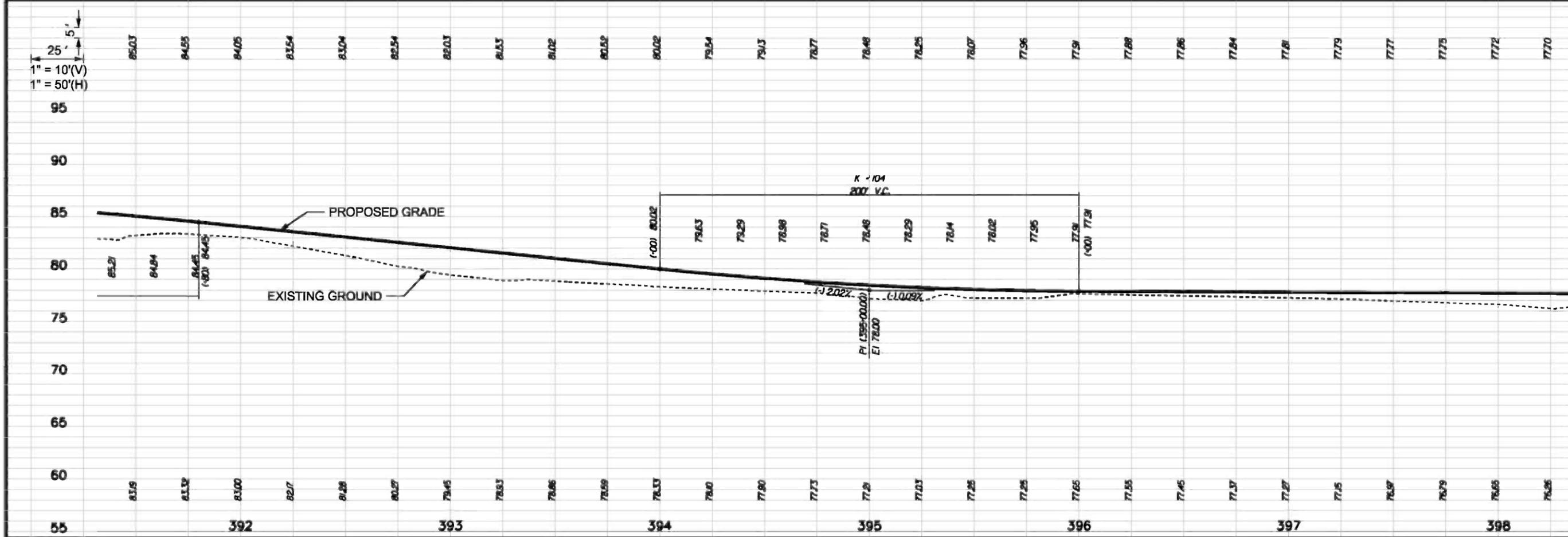
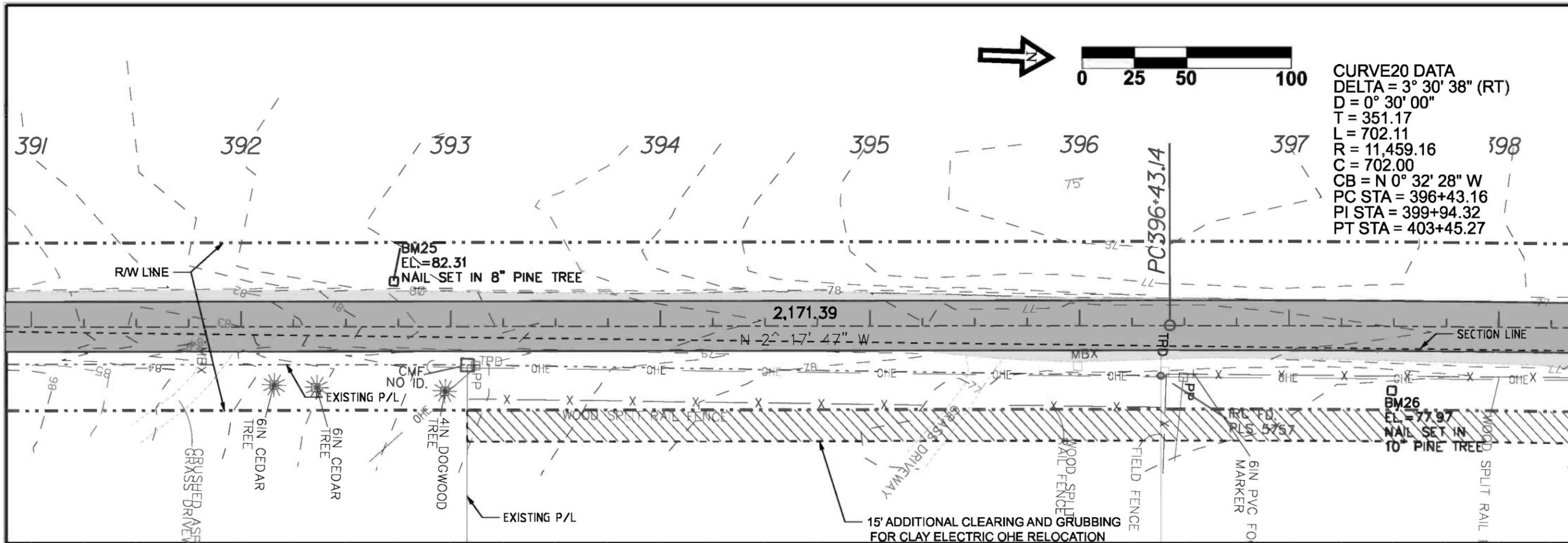
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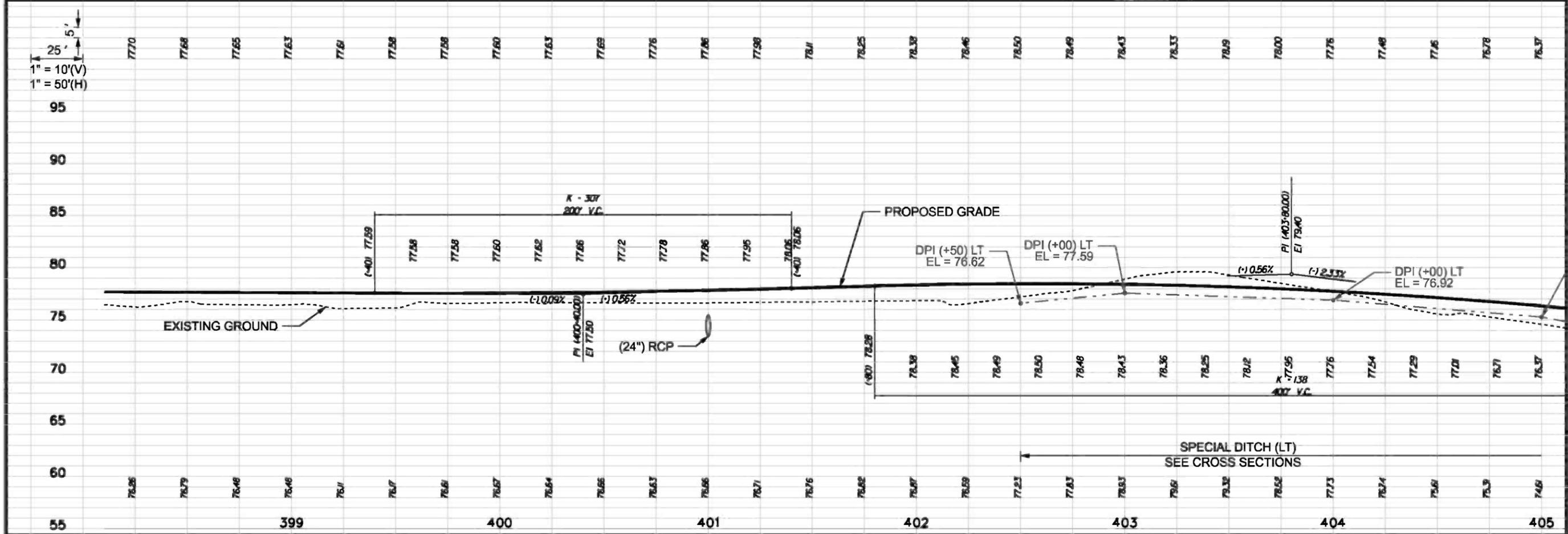
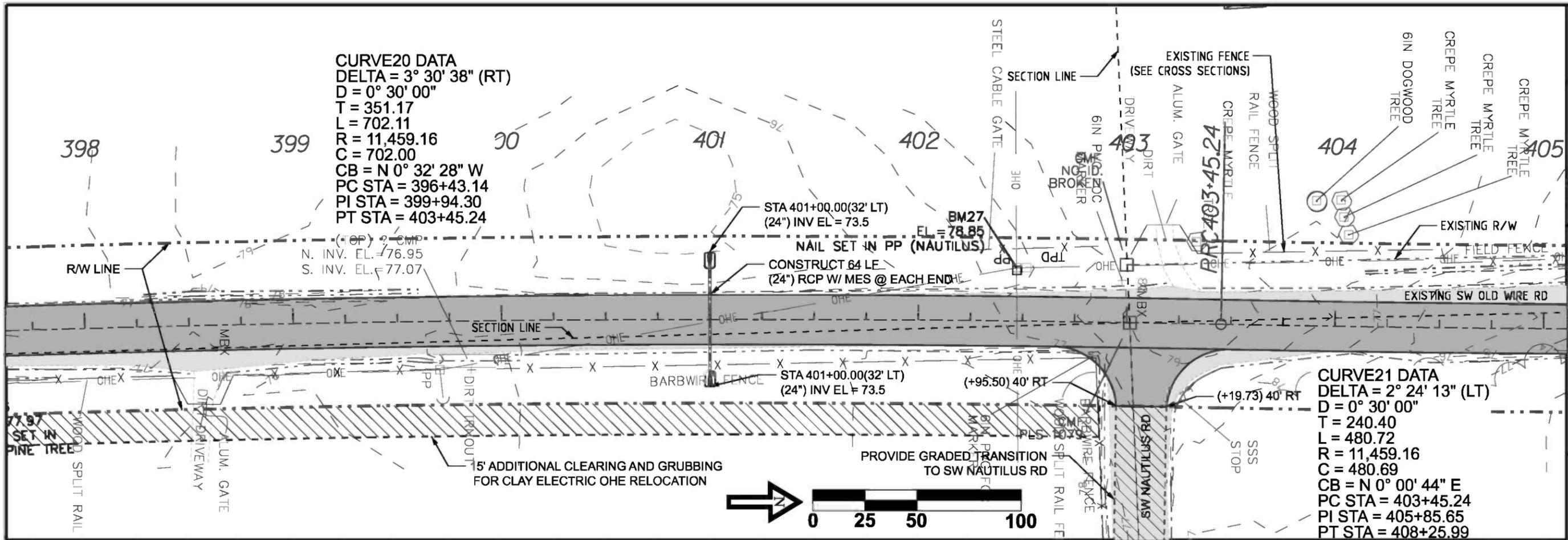
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PROJECT NUMBER: **PF08-127**

SHEET: **PP57**

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 L = 702.11  
 R = 11,459.16  
 C = 702.00  
 CB = N 0° 32' 28" W  
 PC STA = 396+43.14  
 PI STA = 399+94.30  
 PT STA = 403+45.24

**CURVE21 DATA**  
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 D = 0° 30' 00"  
 T = 240.40  
 L = 480.72  
 R = 11,459.16  
 C = 480.69  
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 PC STA = 403+45.24  
 PI STA = 405+85.65  
 PT STA = 408+25.99



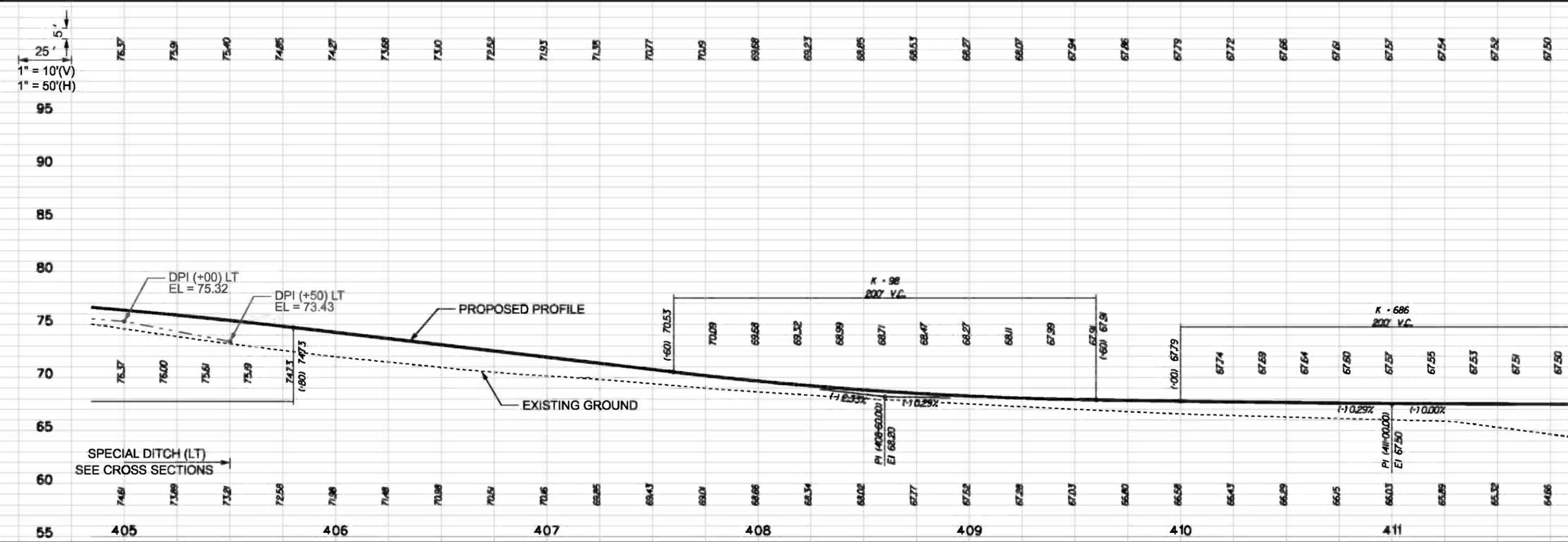
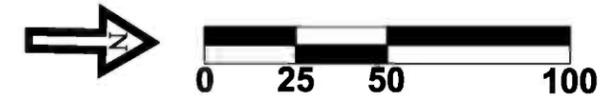
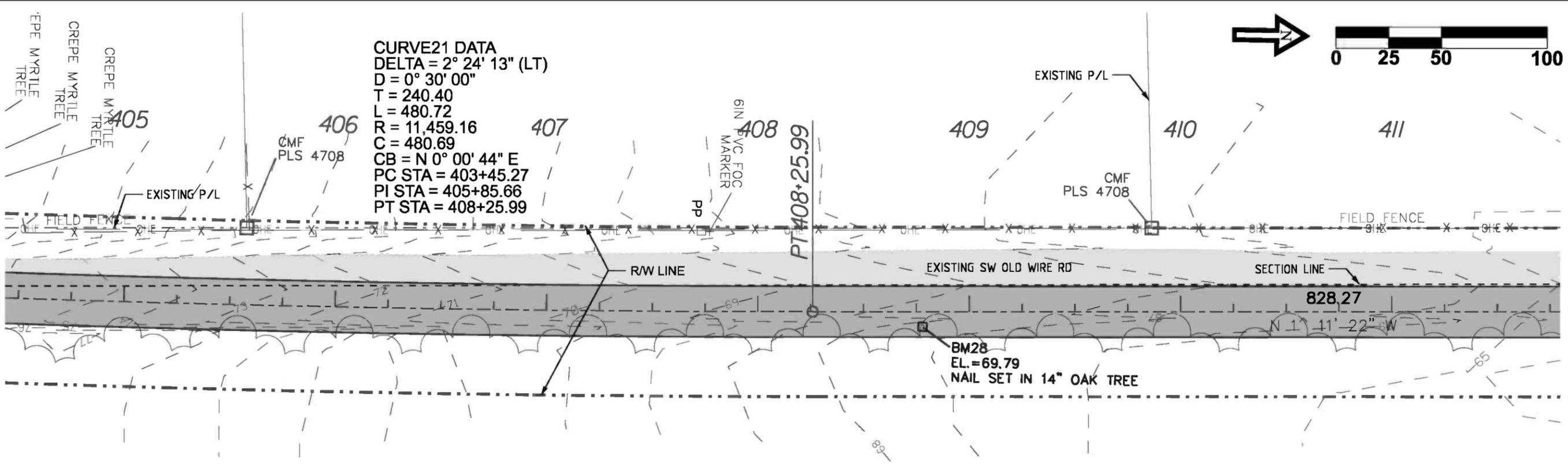
DATE	REVISION NOTES
9-20-10	

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SHEET <b>PP58</b>	



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9-20-10	

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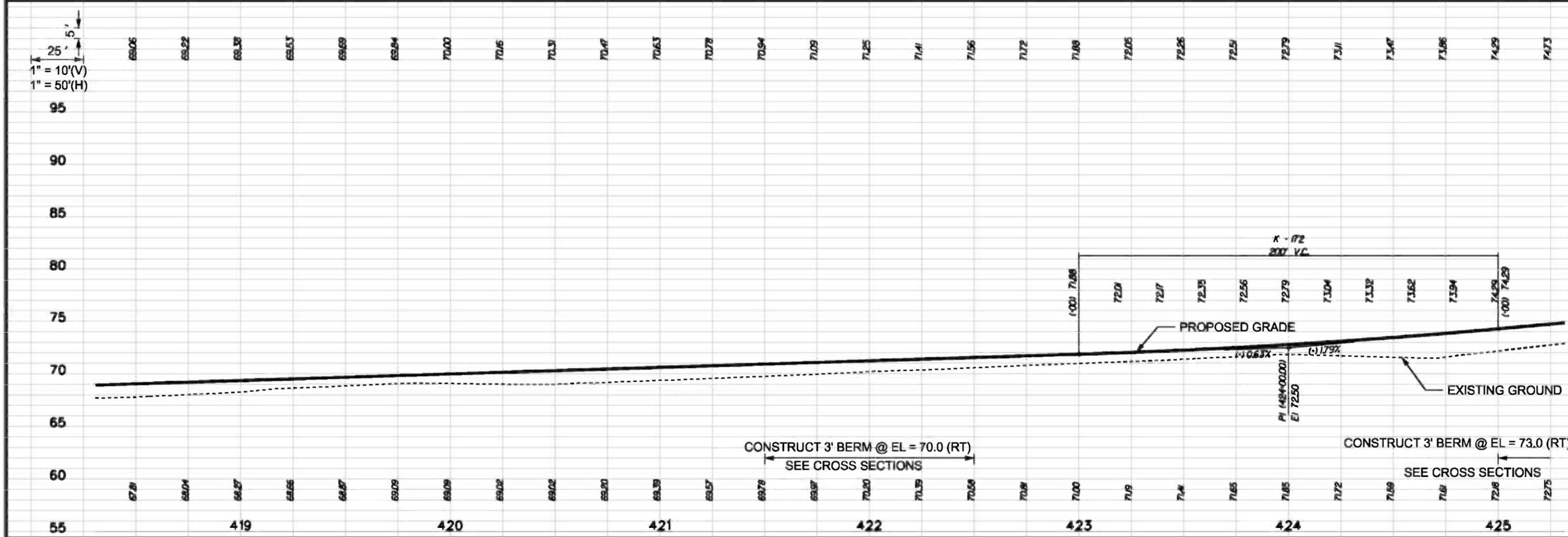
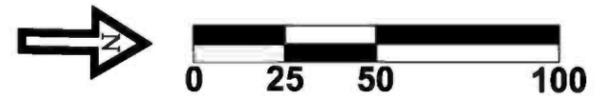
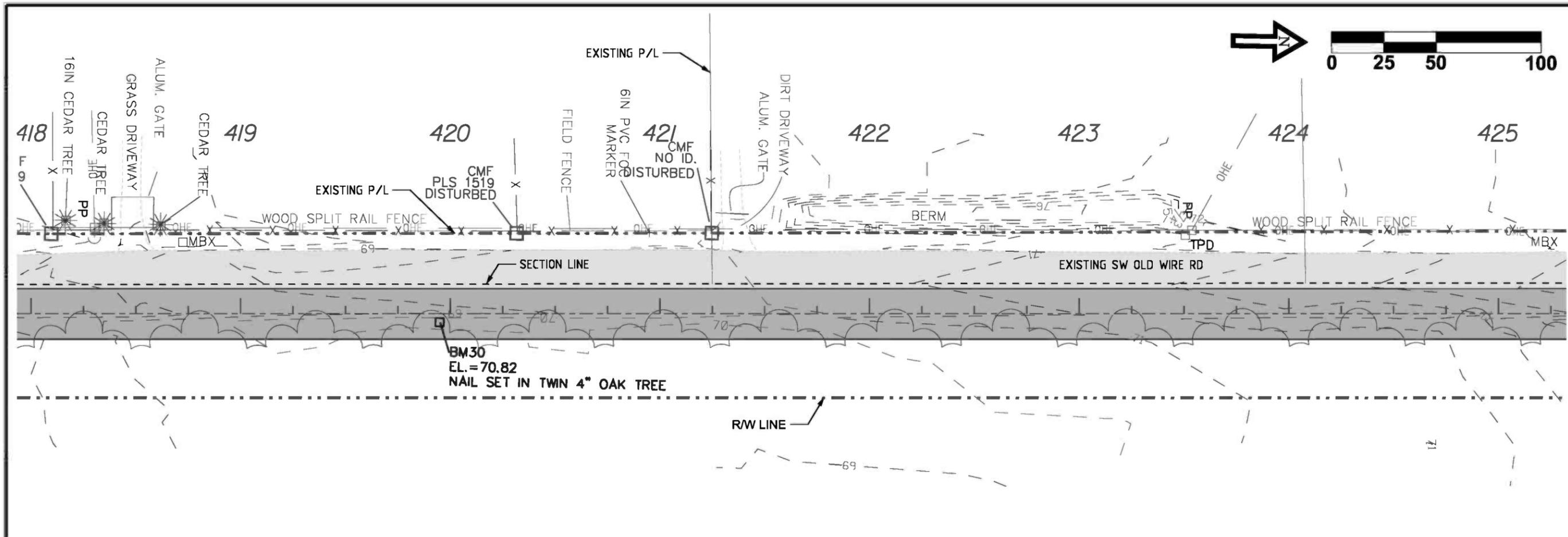
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SHEET <b>PP59</b>	





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9-20-10	

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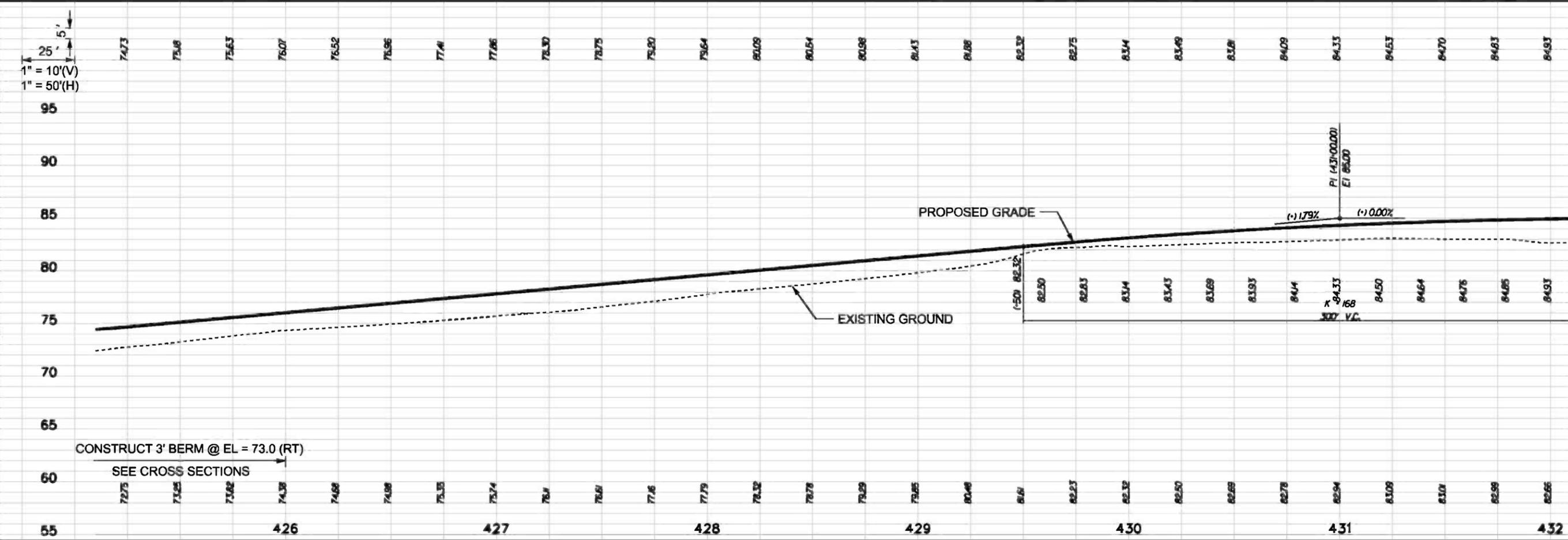
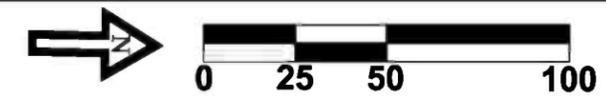
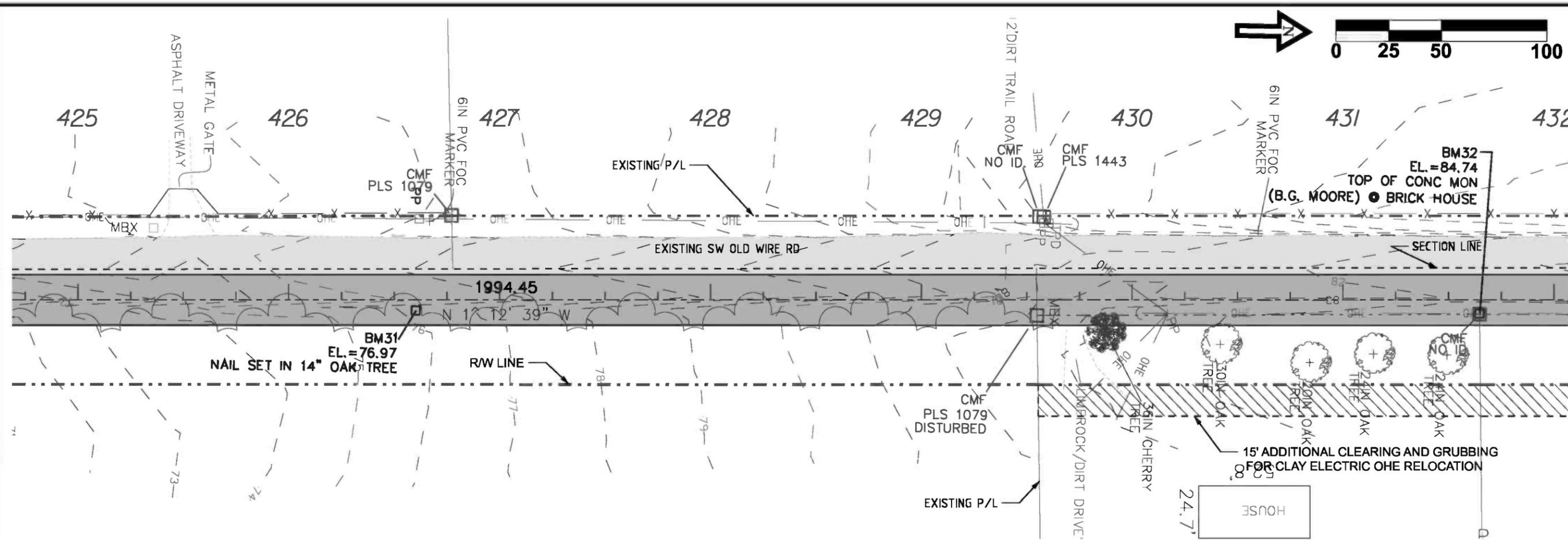
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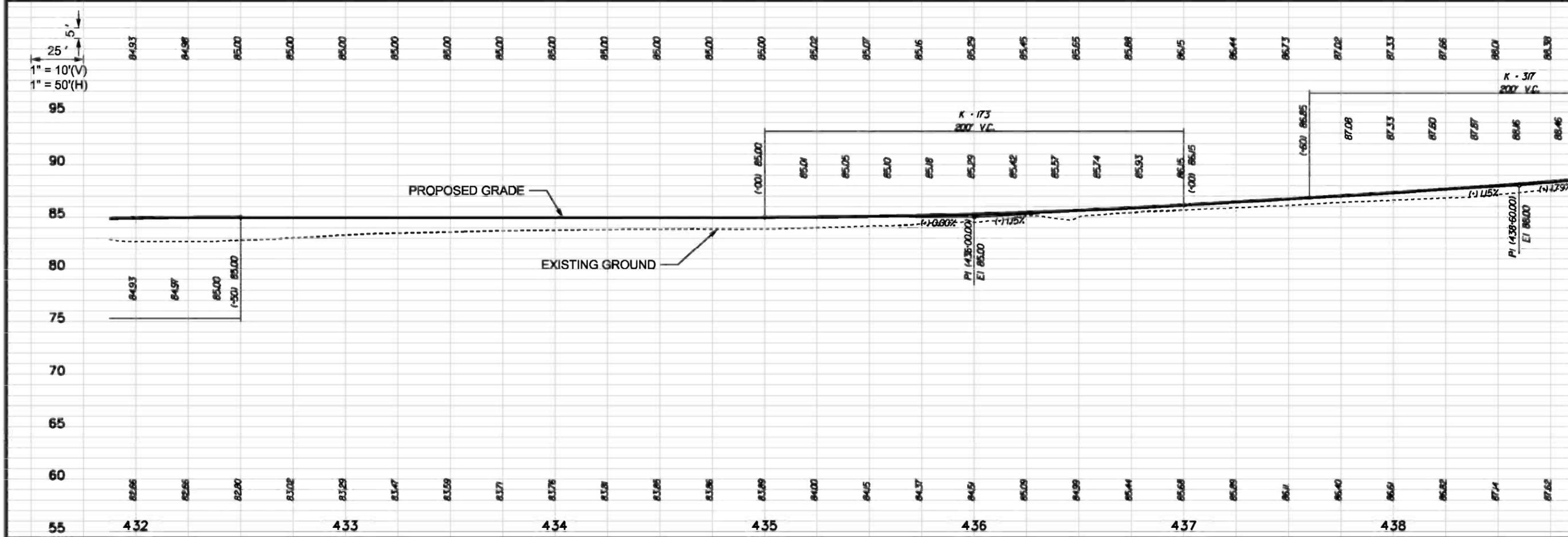
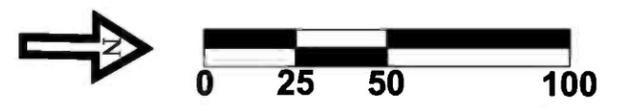
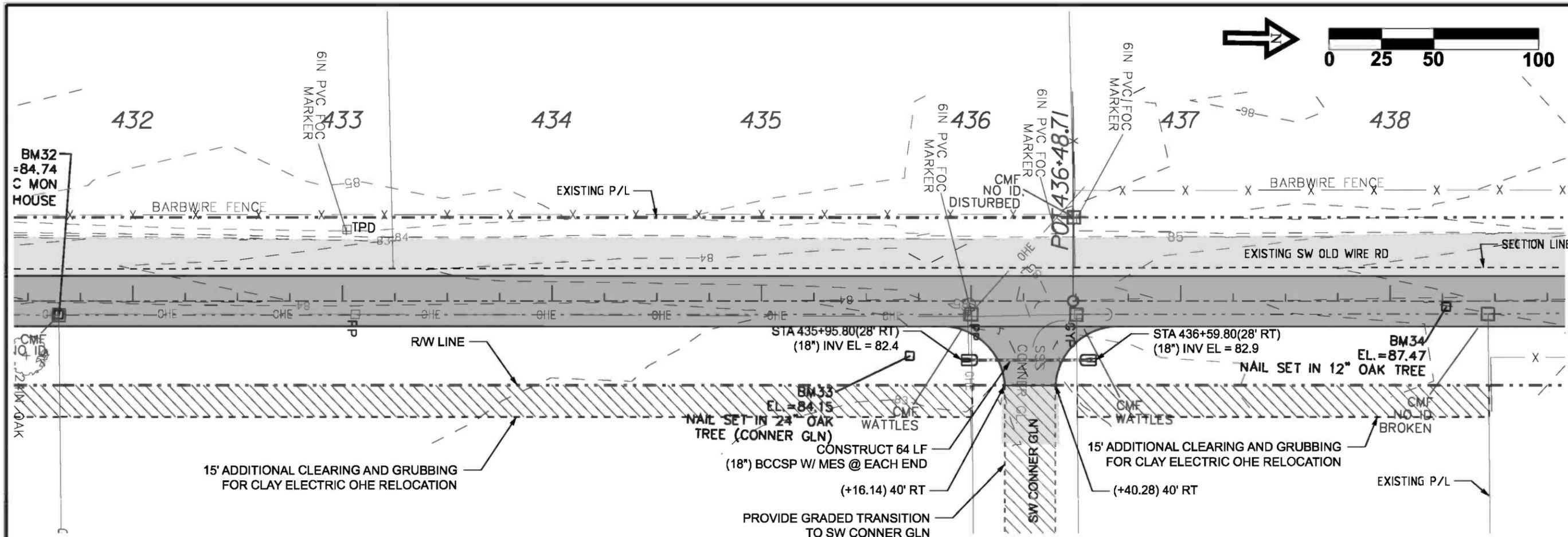
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**PP62**



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9-20-10	

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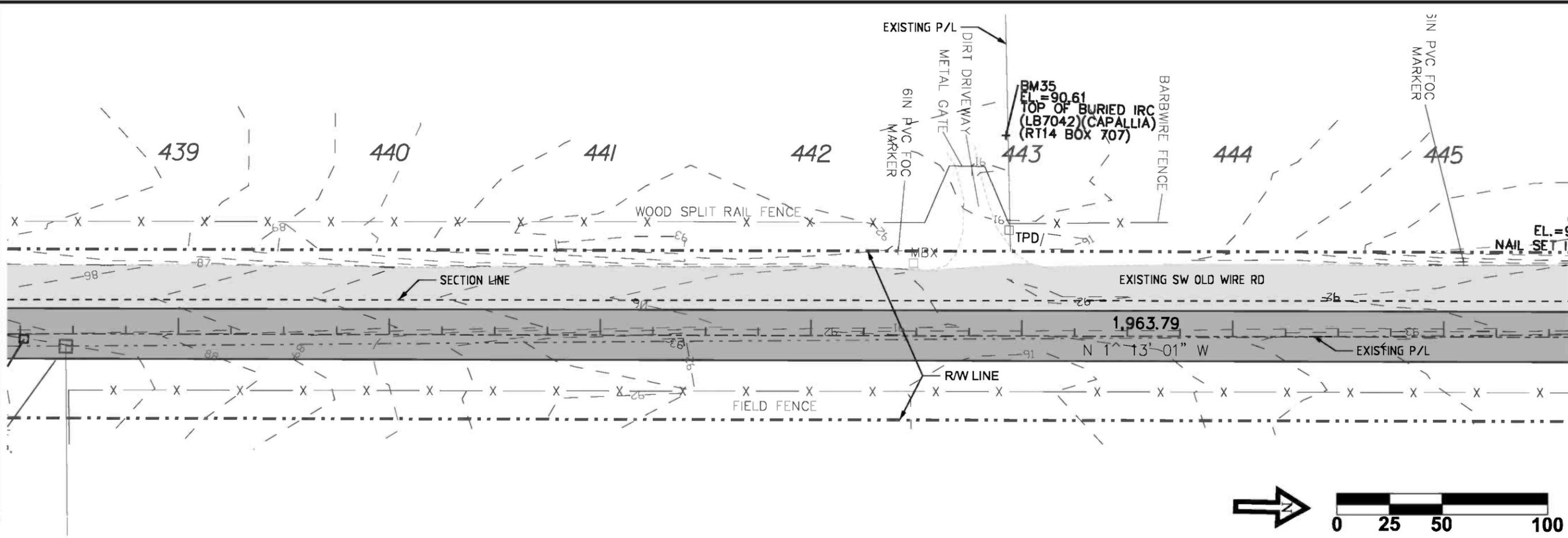
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9-20-10	

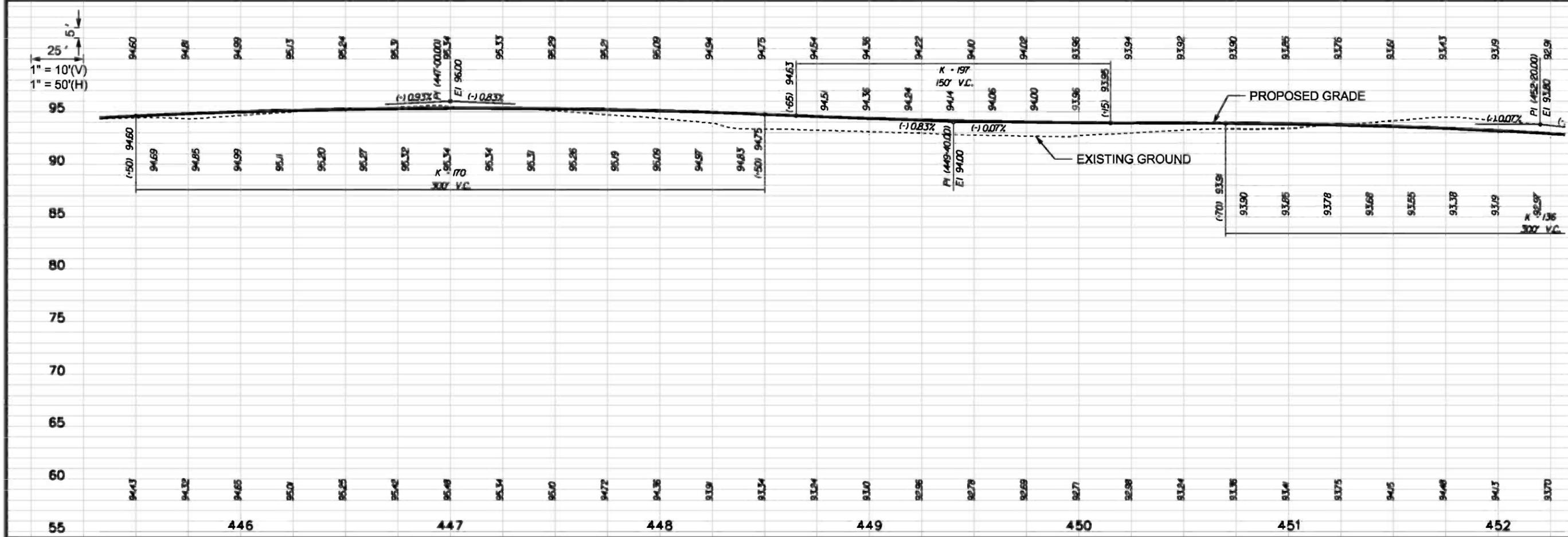
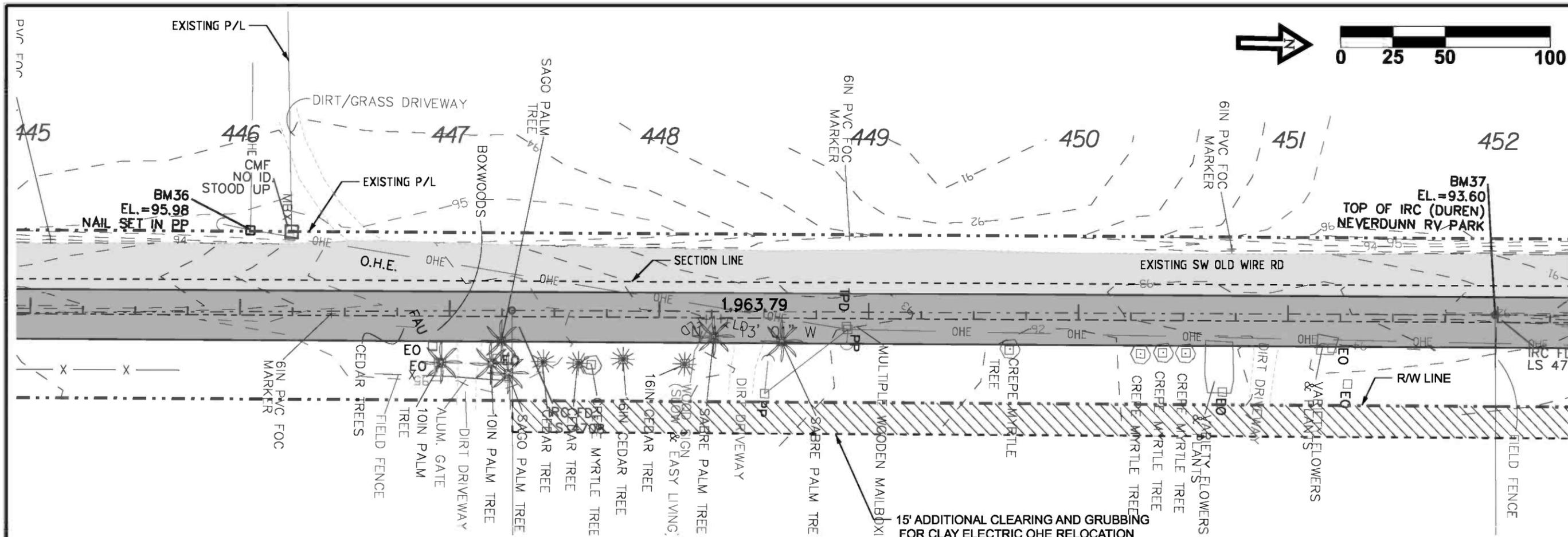
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LIVE OAK FL 32064  
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9-20-10	

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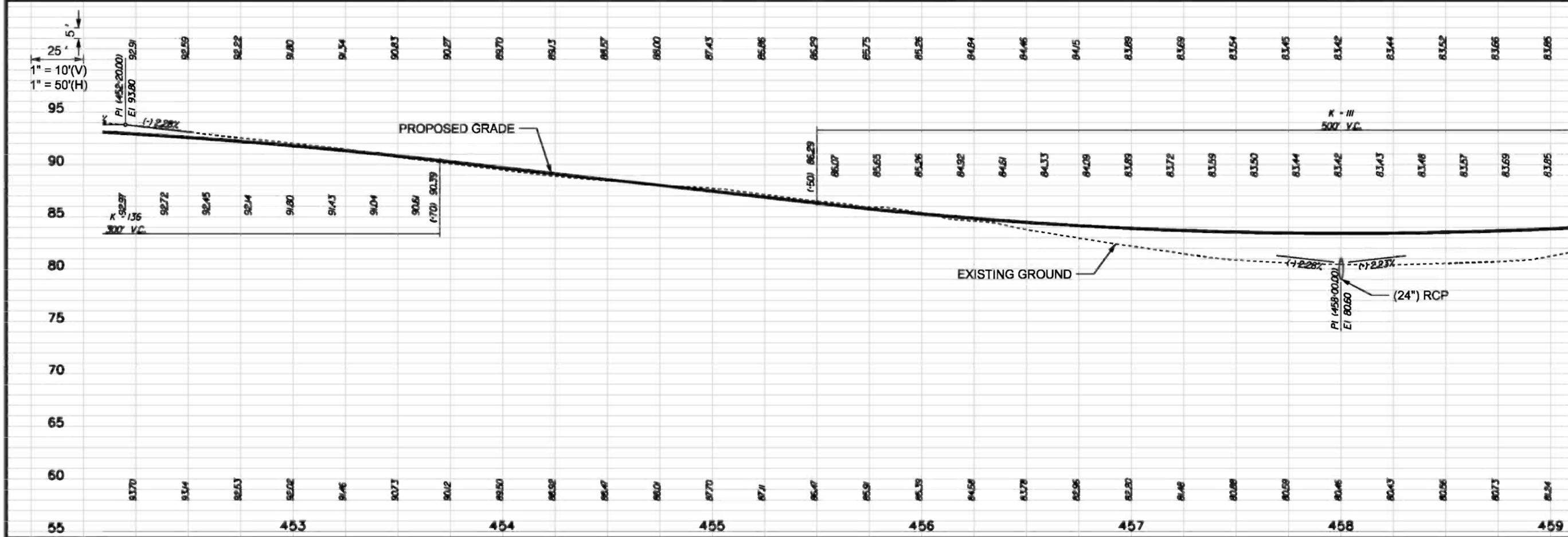
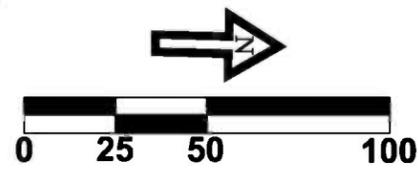
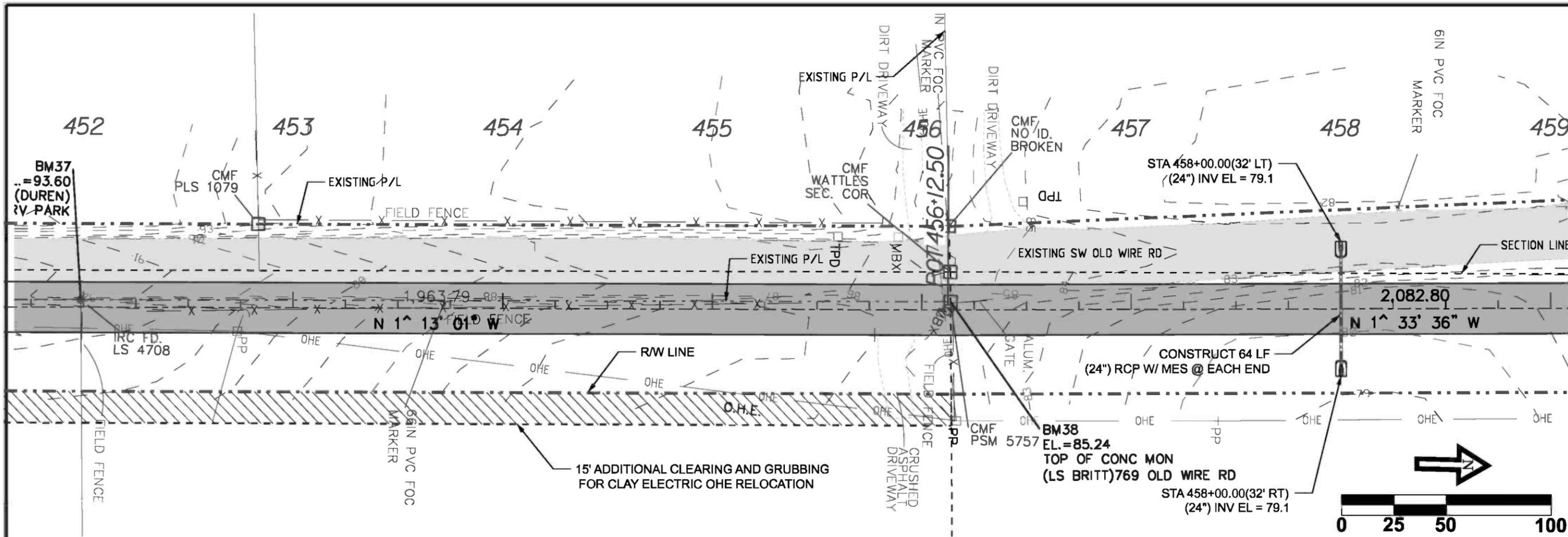
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171 NW LAKE JEFFREY RD  
 LAKE CITY, FL 32055  
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 Fax: (386) 719-8828

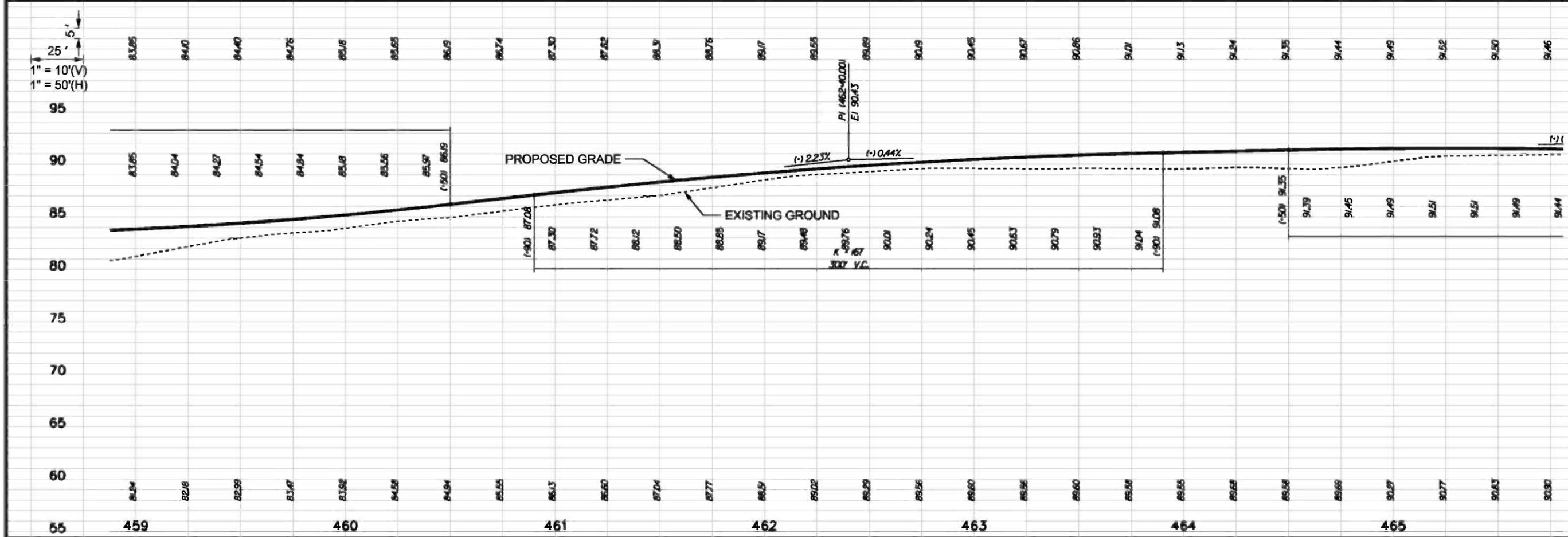
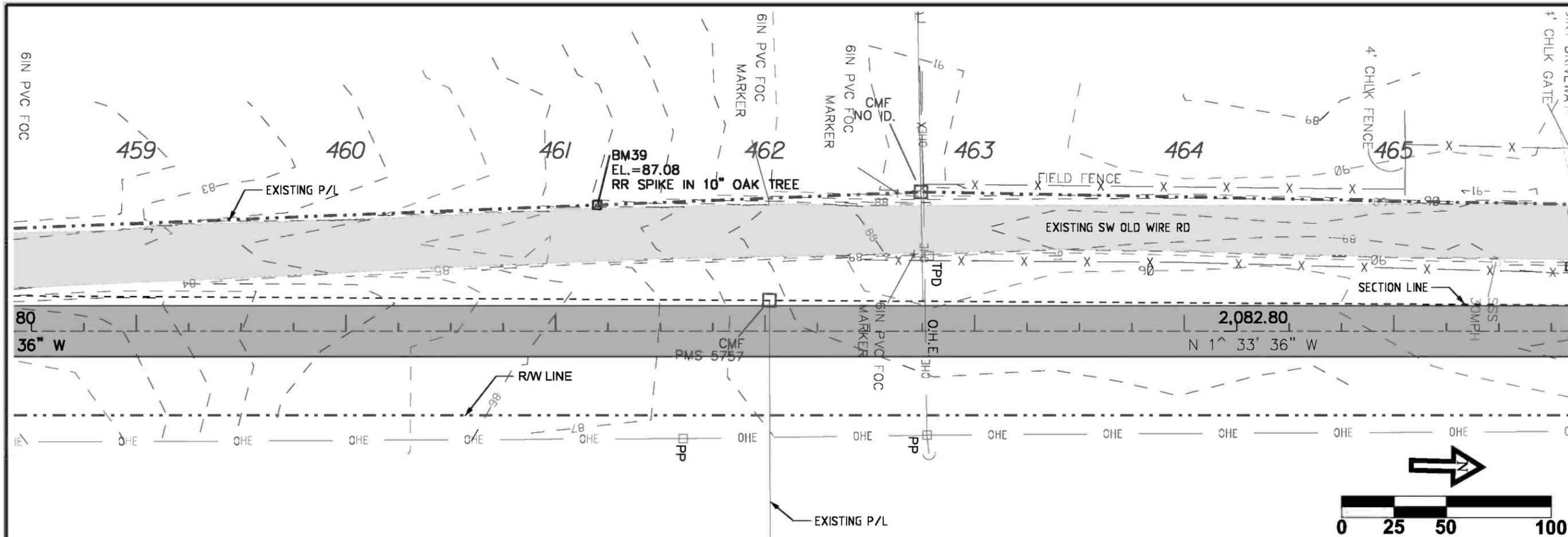
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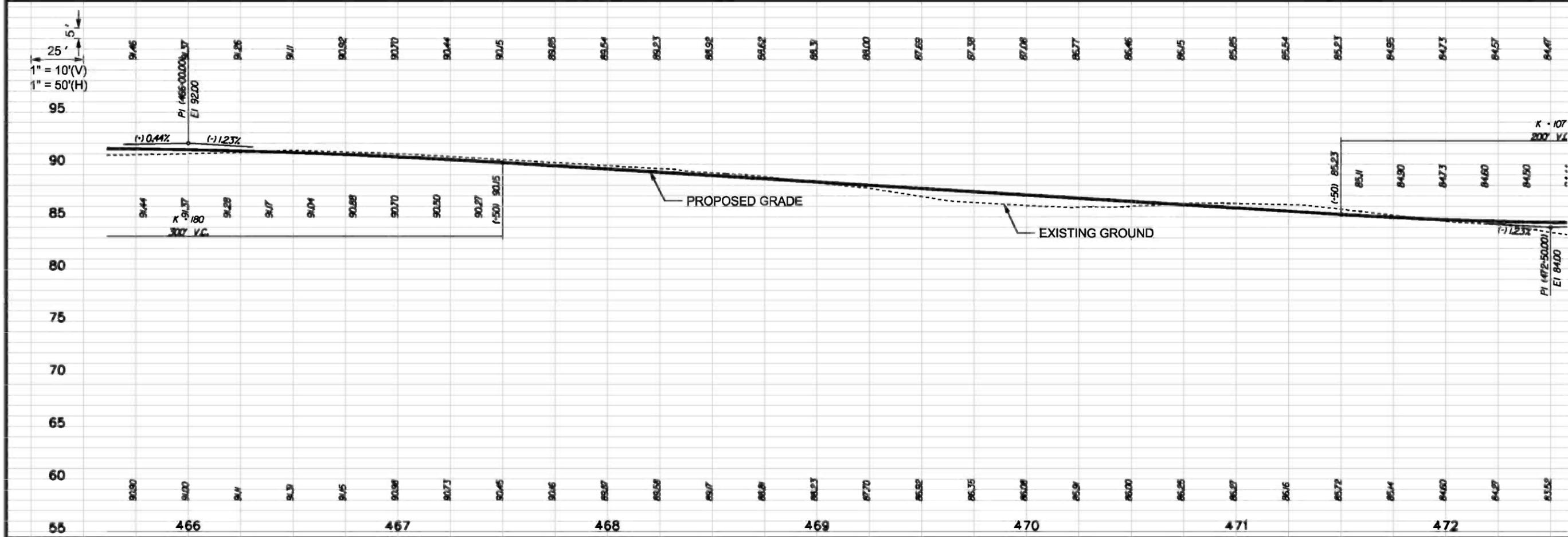
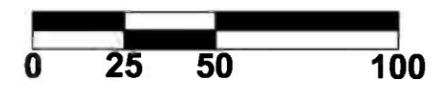
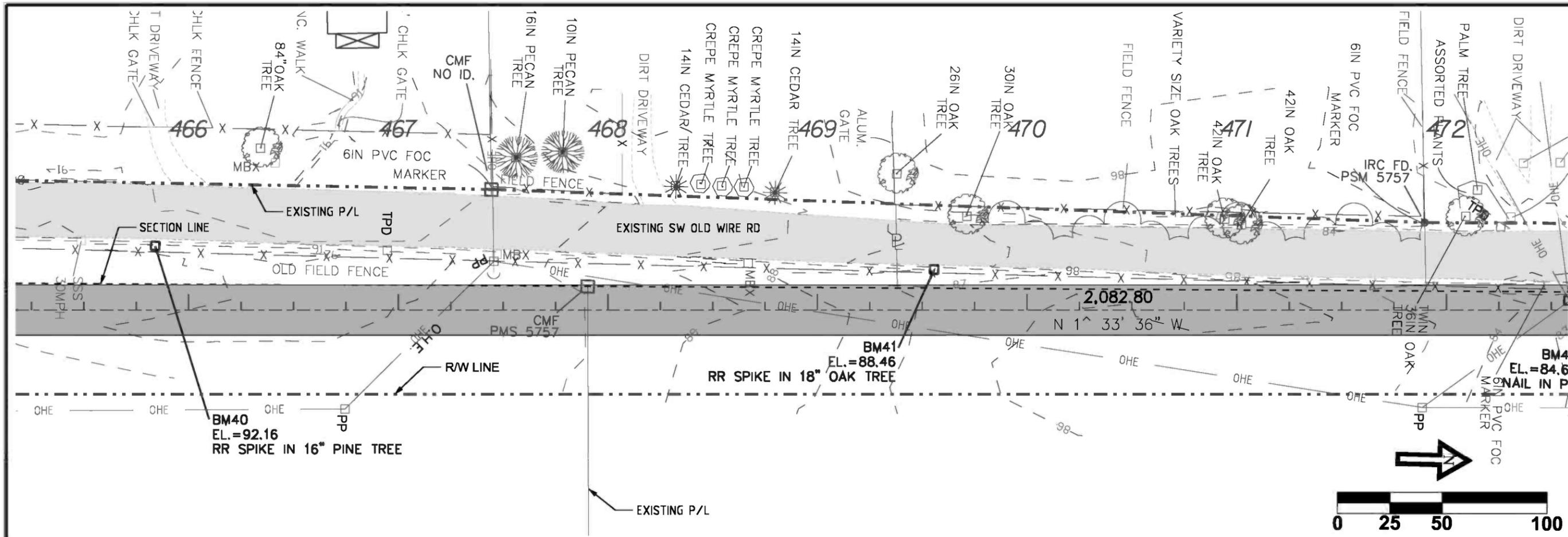
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**PP67**



DATE	REVISION NOTES
9-20-10	

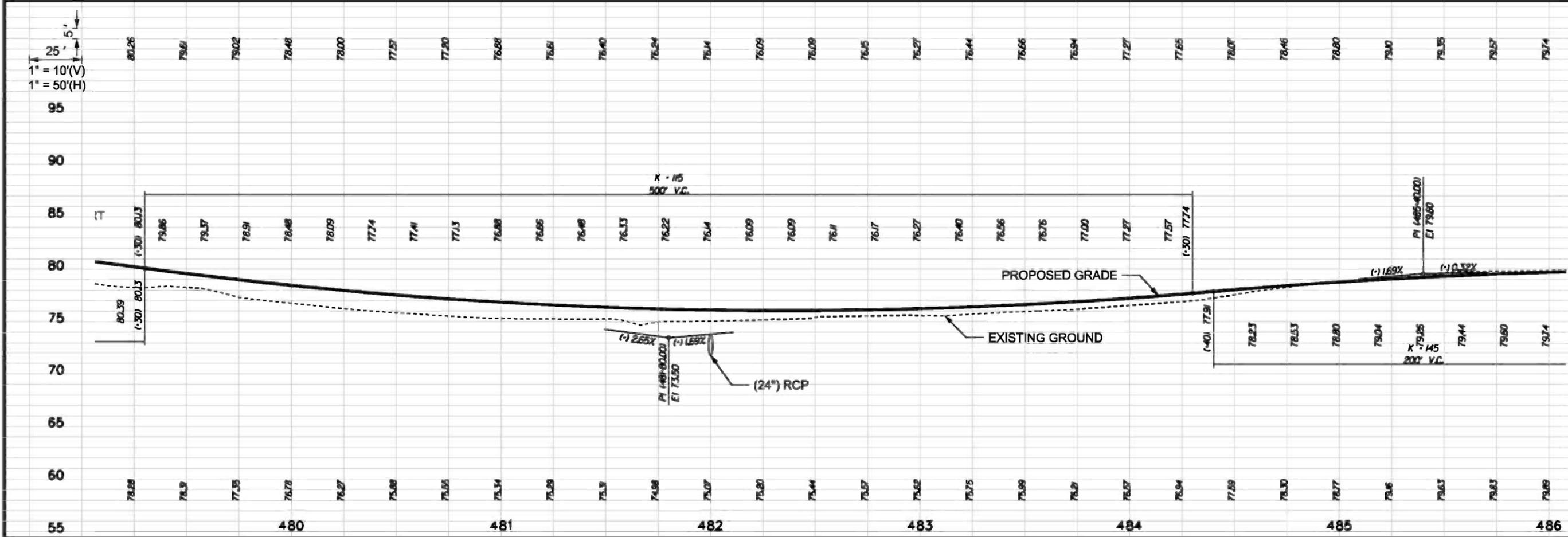
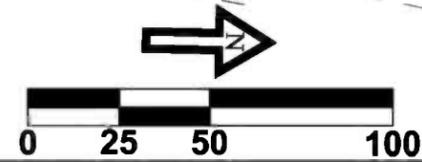
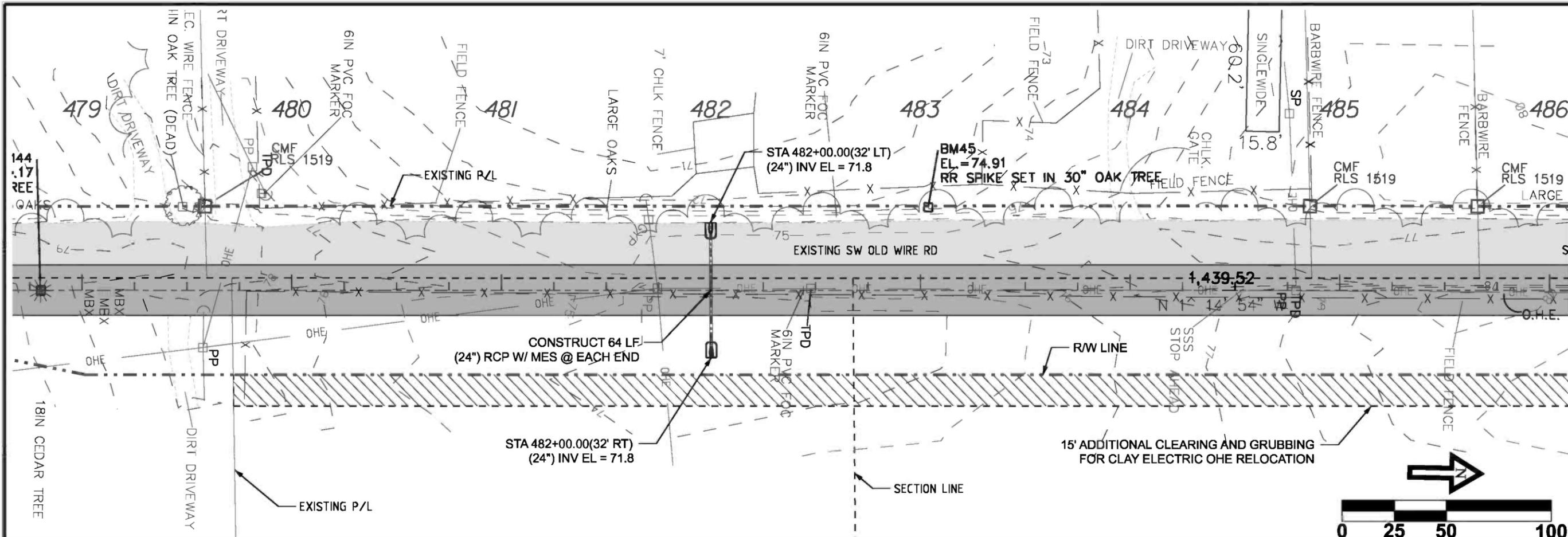
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DATE	DESCRIPTION
9-20-10	

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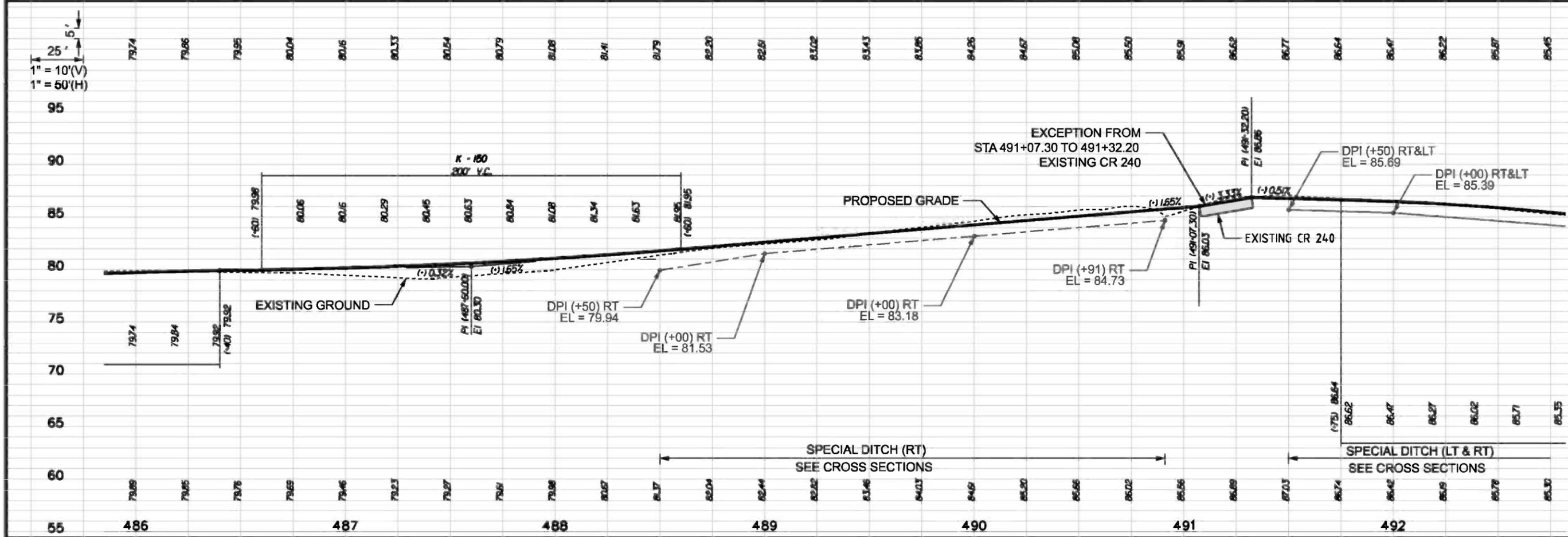
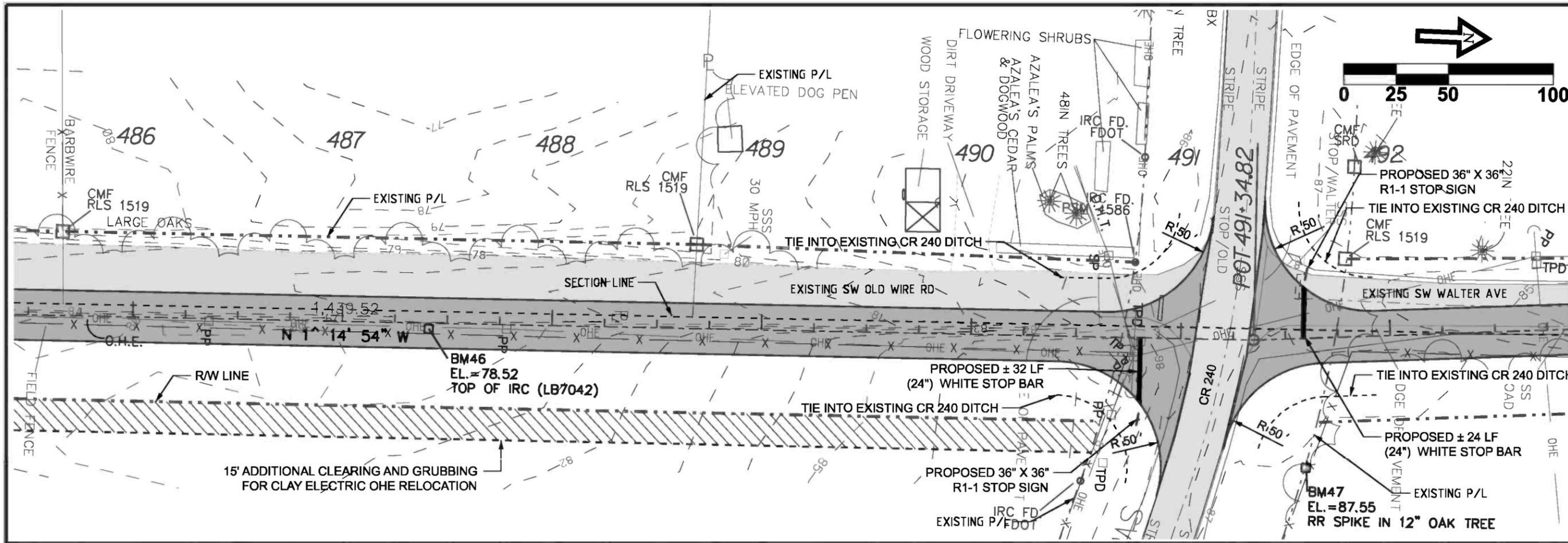
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**CCBCC - OLD WIRE RD**

**PLAN & PROFILE**

**CENTERLINE # 1**

DRAWN BY <b>MC</b>	CHECKED BY <b>CW</b>
PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>PP70</b>	



REVISION NOTES	
DATE	REVISION NOTES
9-20-10	

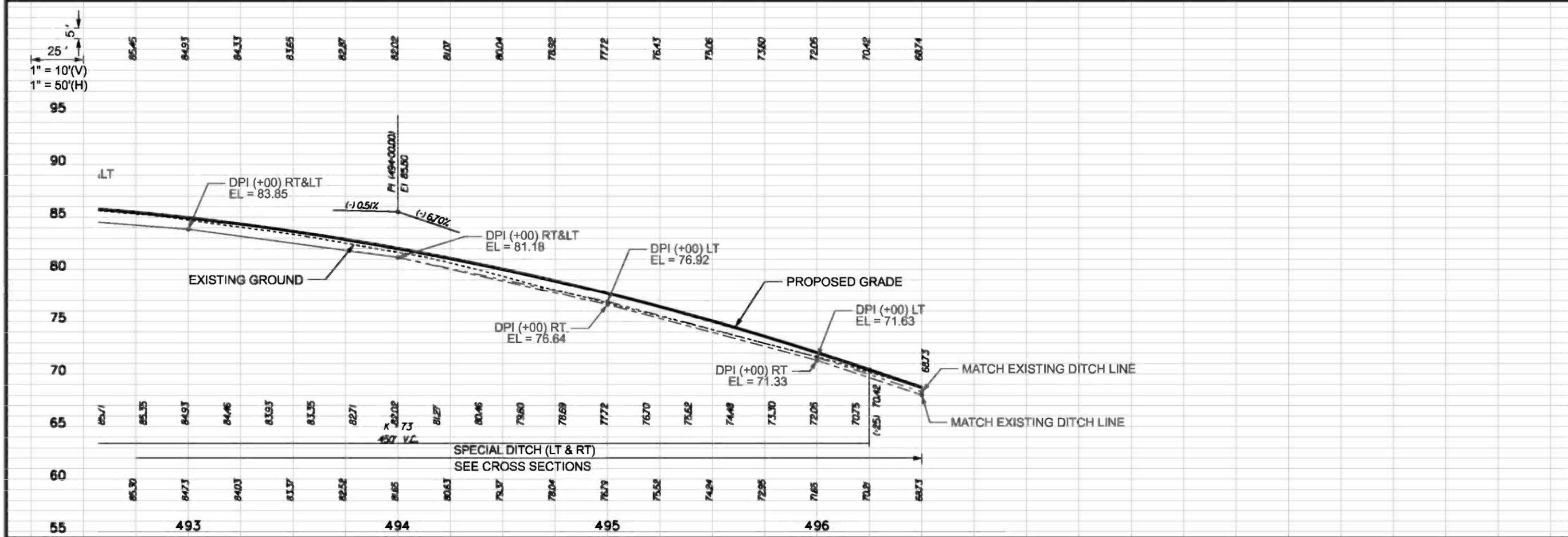
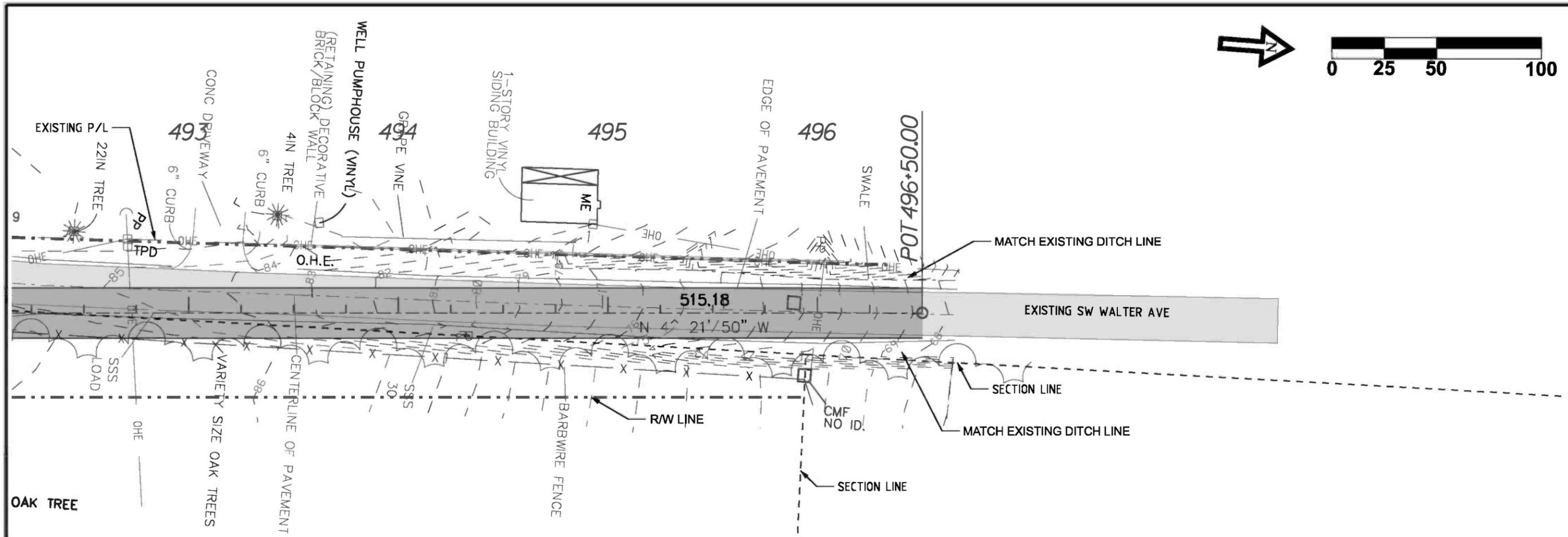
P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	P.O. BOX 187 176 NW LAKE JEFFREY RD LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828
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<b>CCBCC - OLD WIRE RD</b>	<b>PLAN &amp; PROFILE</b>	<b>CENTERLINE # 1</b>
----------------------------	---------------------------	-----------------------

DRAWN BY <b>MC</b>	CHECKED BY <b>CW</b>
PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>PP71</b>	



DATE	REVISION NOTES
9-20-10	

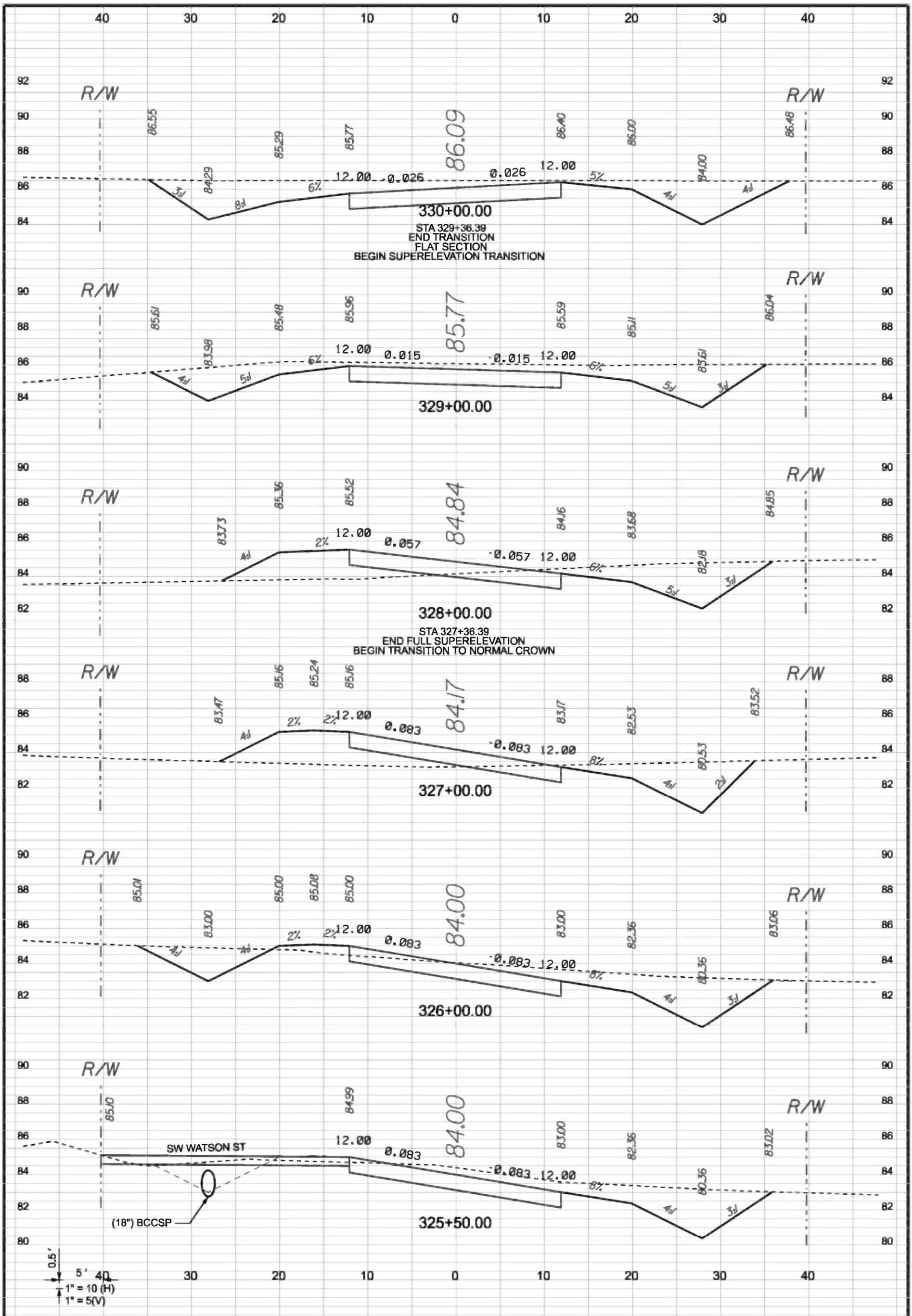
P.O. BOX 187  
 130 W HOWARD ST  
 LIVE OAK FL, 32064  
 PHONE: (386) 362-3678  
 FAX: (386) 362-6133

**GTC**  
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 LAKE CITY, FL 32055  
 Auth. # 9461  
 Structural / Civil Engineers  
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**CCBCC - OLD WIRE RD**  
**PLAN & PROFILE**  
**CENTERLINE # 1**

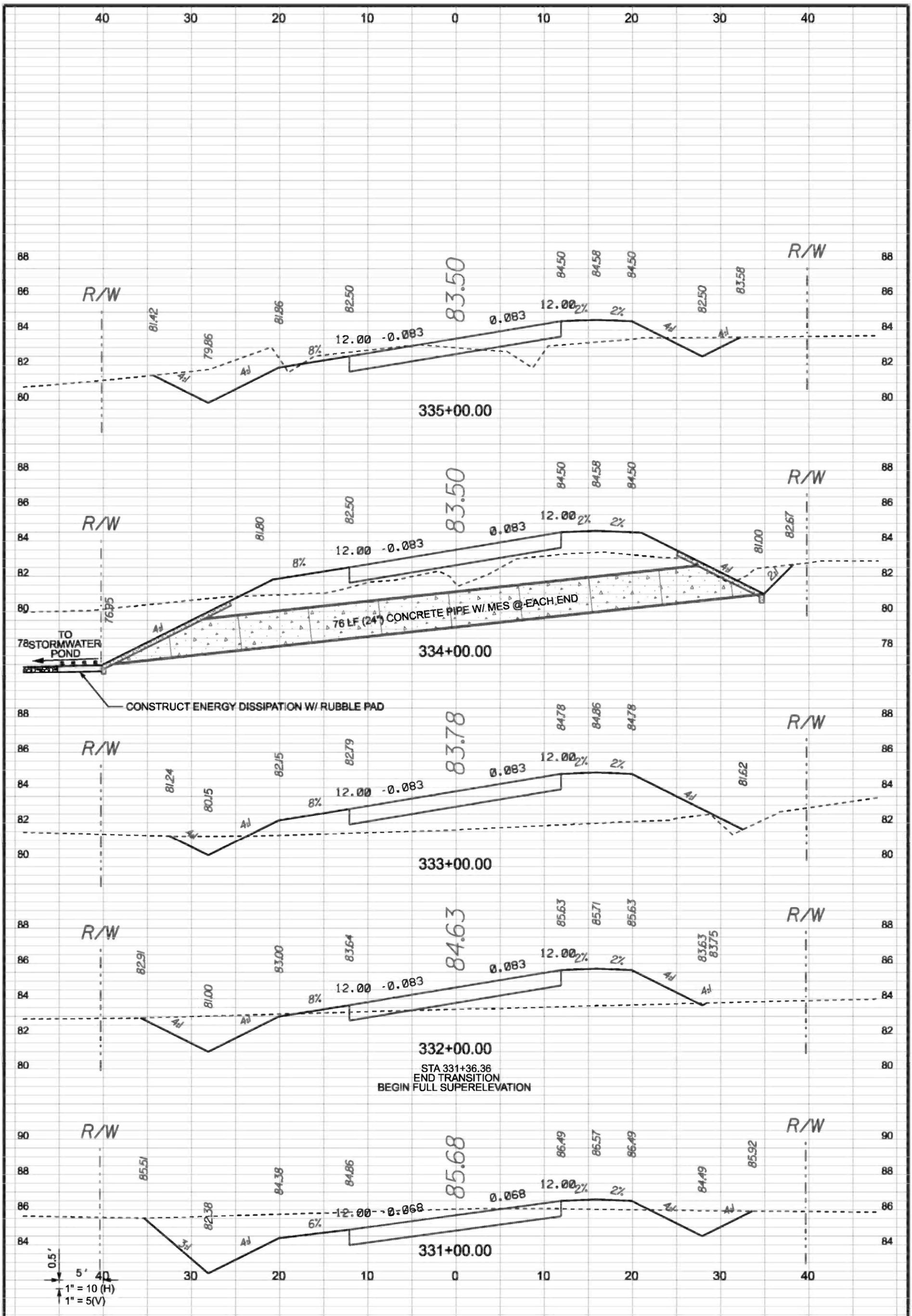
DRAWN BY	CHECKED BY
MC	CW
PROJECT NUMBER	
PF08-127	
SHEET	
PP72	





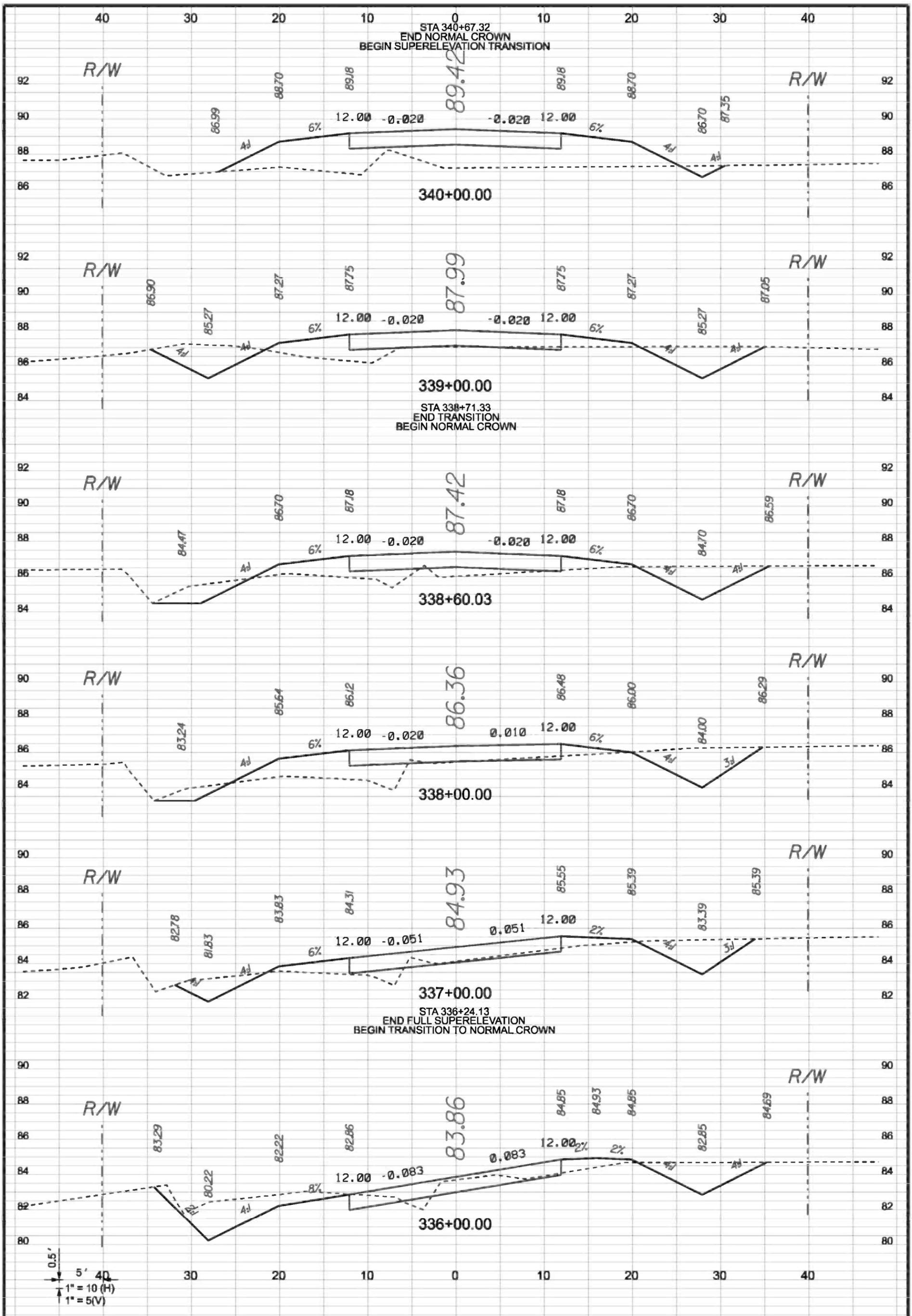
0.5'  
5'  
1" = 10 (H)  
1" = 5(V)

SHEET <b>XSC2</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b>	<b>CCBCC - OLD WIRE RD</b>		P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE	REVISION NOTES
		CHECKED BY <b>CW</b>				<b>9-20-10</b>	
<b>CROSS SECTIONS</b>				GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com		LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828	
<b>CENTERLINE # 1</b>							



0.5'  
5'  
1" = 10' (H)  
1" = 5' (V)

SHEET <b>XSC3</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



0.5'  
5'  
40'  
1" = 10 (H)  
1" = 5 (V)

SHEET  
PROJECT NUMBER  
**PF08-127**  
DRAWN BY  
MC  
CHECKED BY  
CW  
**XSC4**

**CCBCC - OLD WIRE RD**  
**CROSS SECTIONS**  
**CENTERLINE # 1**

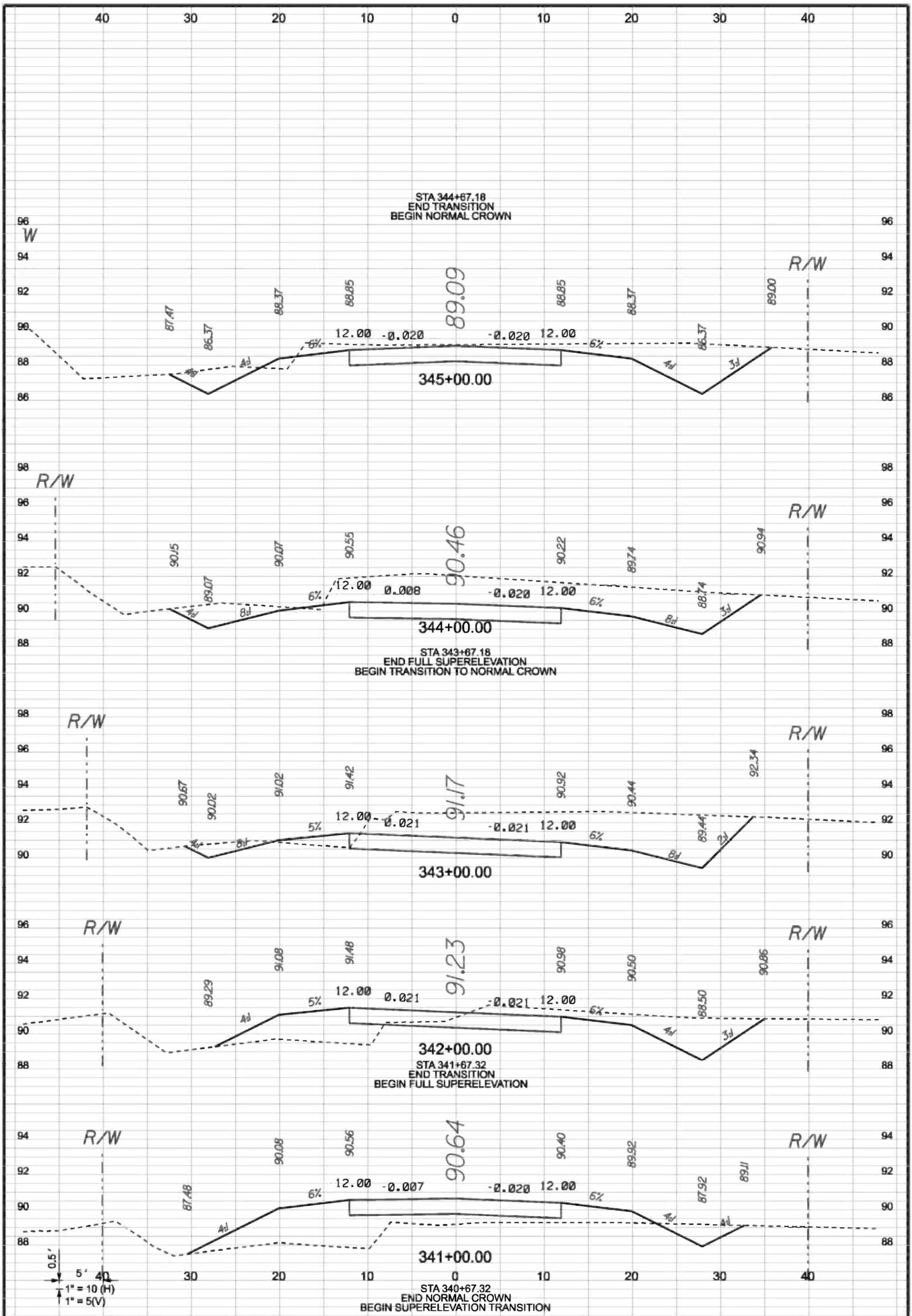


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FAX: (386) 362-6133

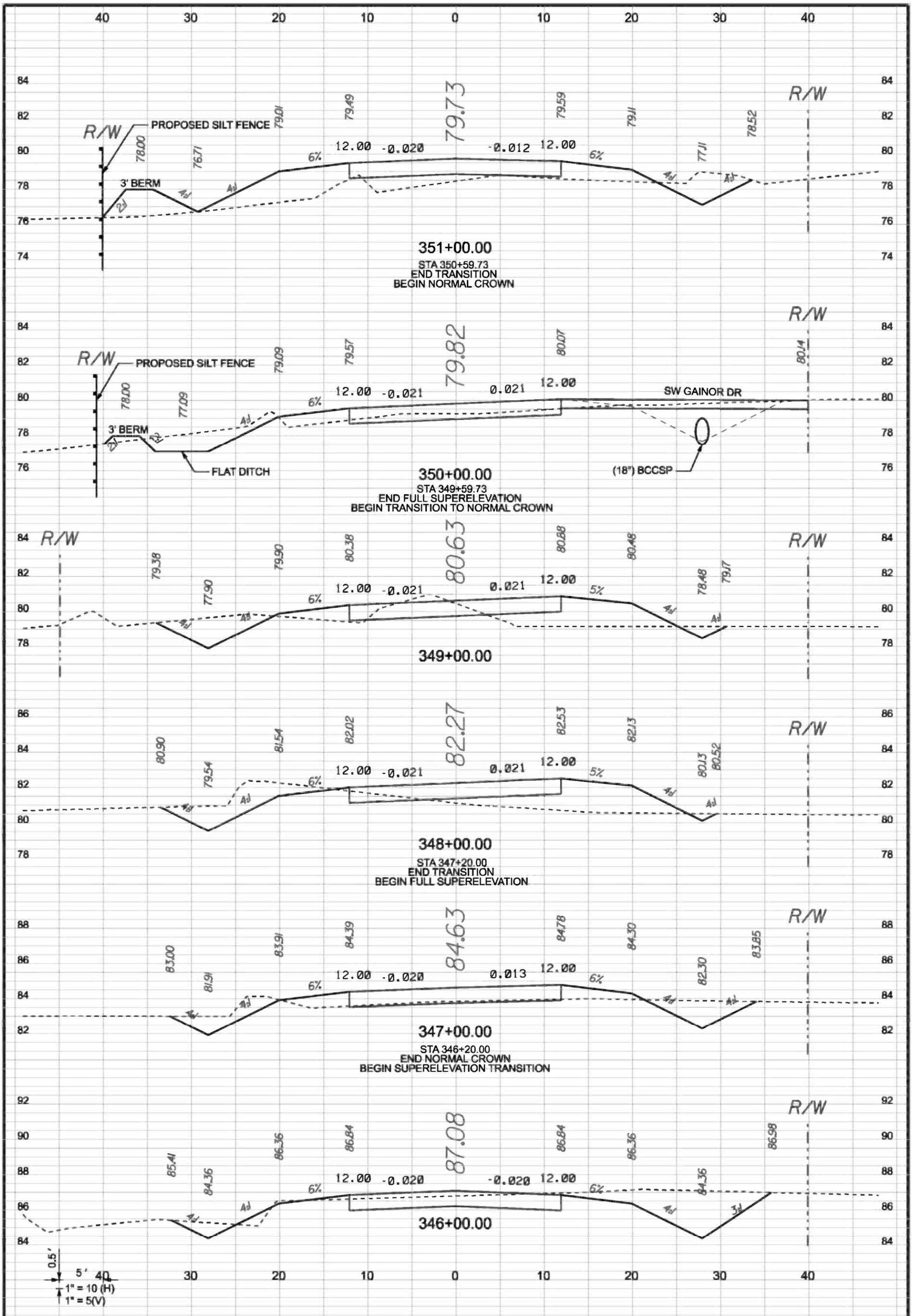
LAKE CITY, FL 32055  
Phone: (386) 719-9985  
Fax: (386) 719-8828

DATE	REVISION NOTES
9-20-10	

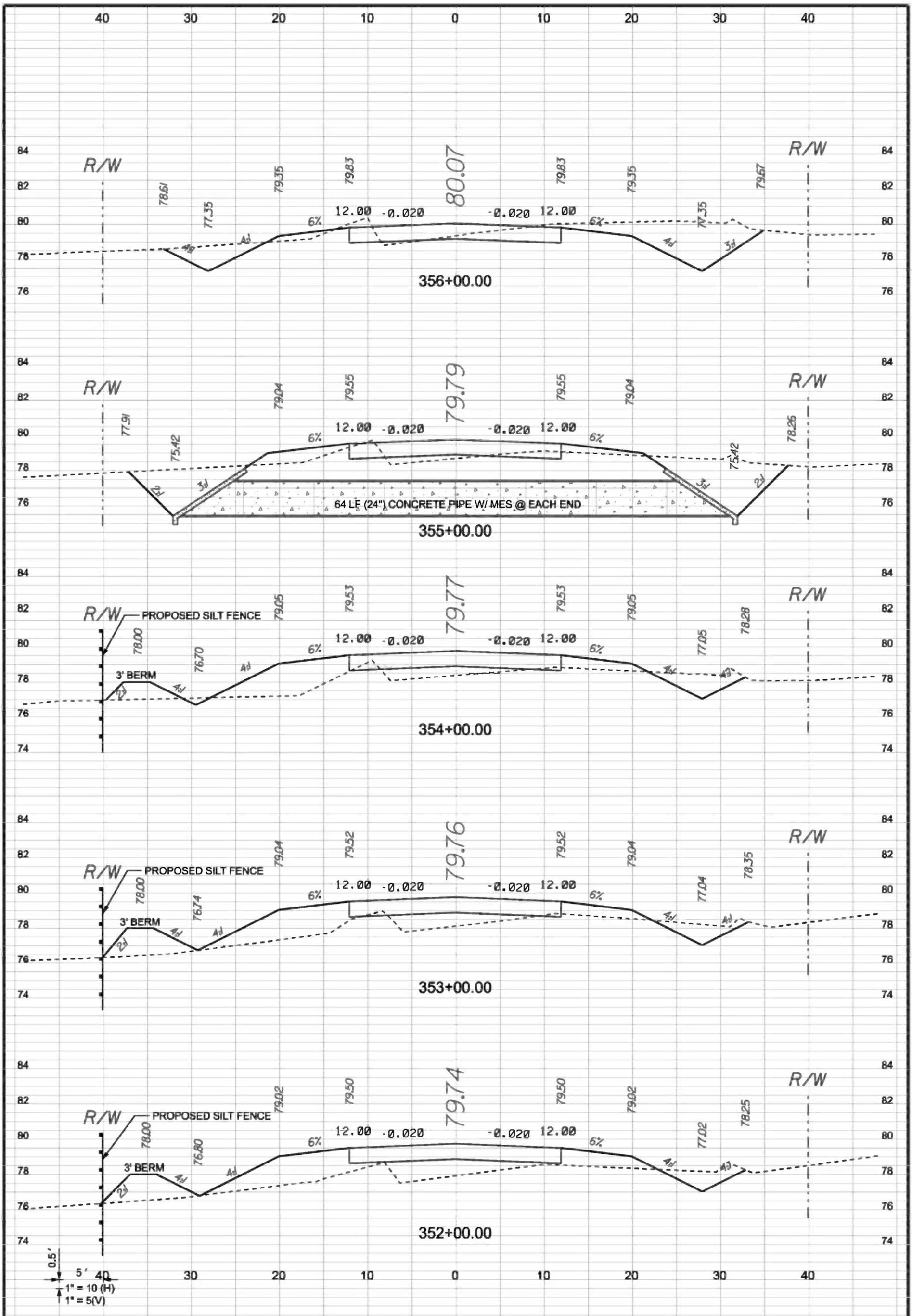


0.50'  
 5'  
 1" = 10' (H)  
 1" = 5' (V)

SHEET	PROJECT NUMBER	DRAWN BY MC	CHECKED BY CW	CCBCC - OLD WIRE RD		P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE	REVISION NOTES
							9-20-10	
XSC5	PF08-127	CROSS SECTIONS			GTC Design Group, LLC, 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828		
		CENTERLINE # 1						

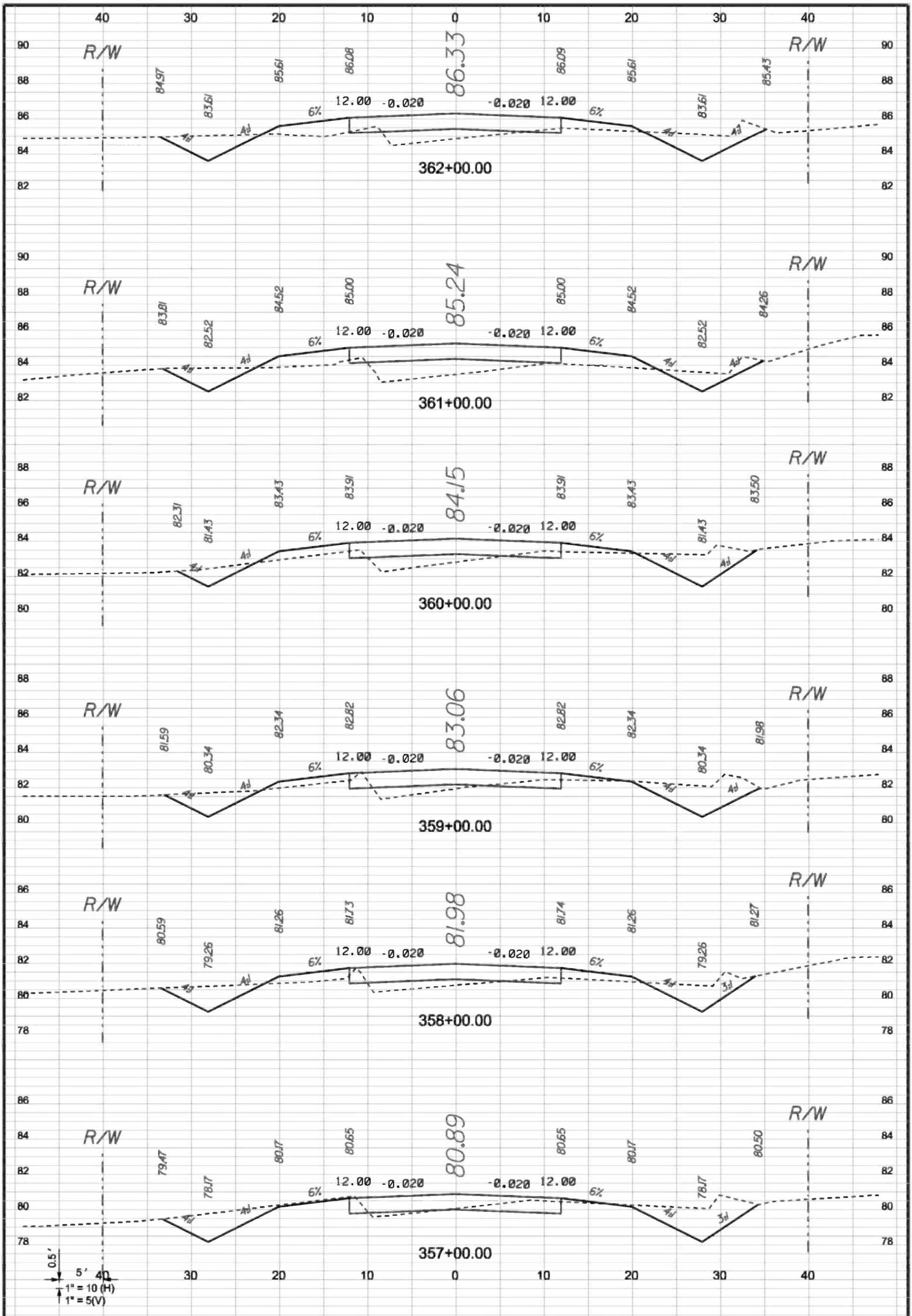


SHEET <b>XSC6</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY MC CHECKED BY CW	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



0.5'  
5'  
1" = 10 (H)  
1" = 5 (V)

SHEET <b>XSC7</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b>	<b>CCBCC - OLD WIRE RD</b>		P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE	REVISION NOTES
		CHECKED BY <b>CW</b>				<b>9-20-10</b>	
<b>CROSS SECTIONS</b>				GTC Design Group, LLC. 176 NW LAKE JEFFREY RD			
				Auth. # 9461 LAKE CITY, FL 32055			
<b>CENTERLINE # 1</b>				Phone: (386) 719-9985			
				Fax: (386) 719-8828			



SHEET  
**XSC8**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

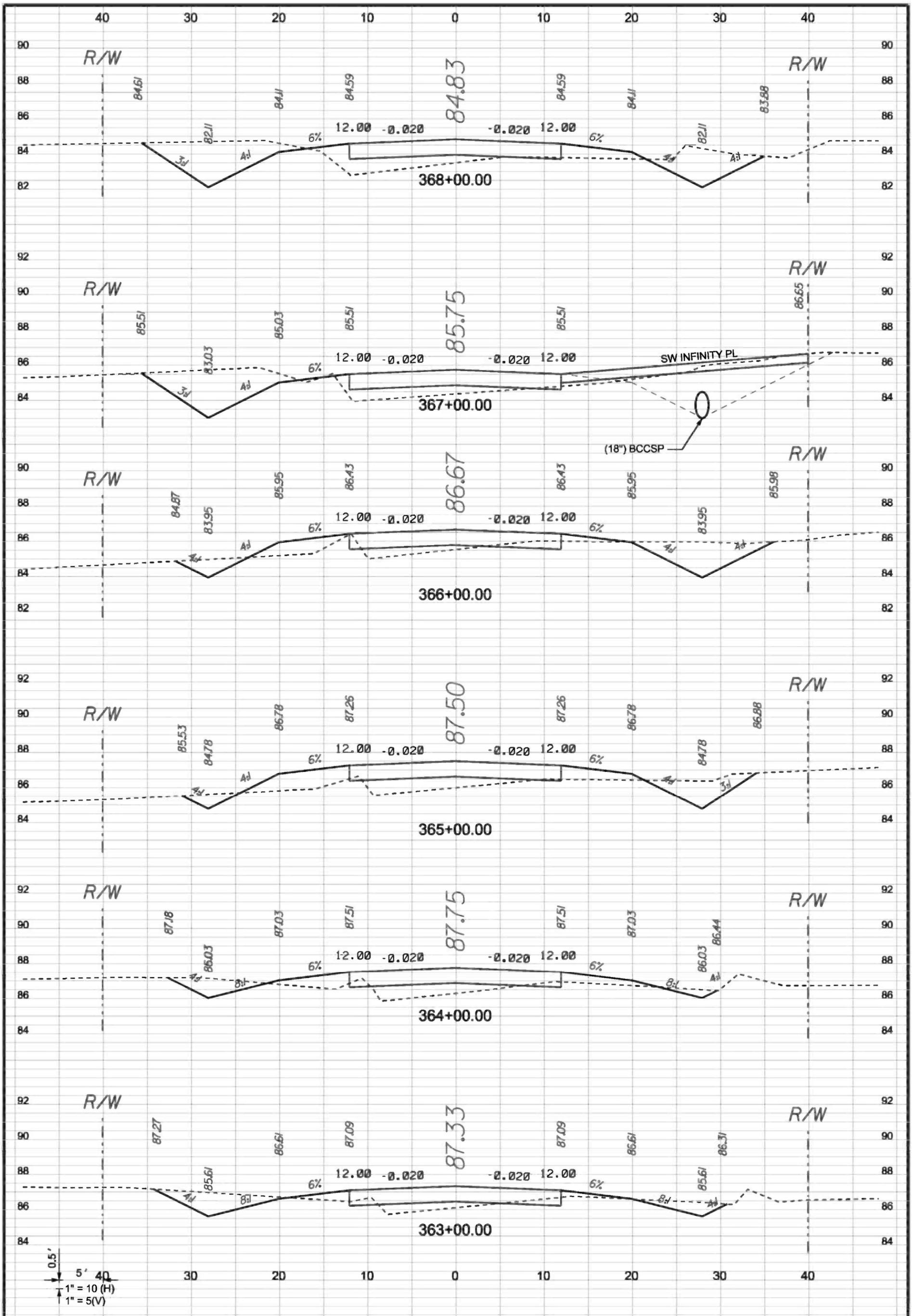
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DATE	REVISION NOTES
9-20-10	



SHEET  
**XSC9**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

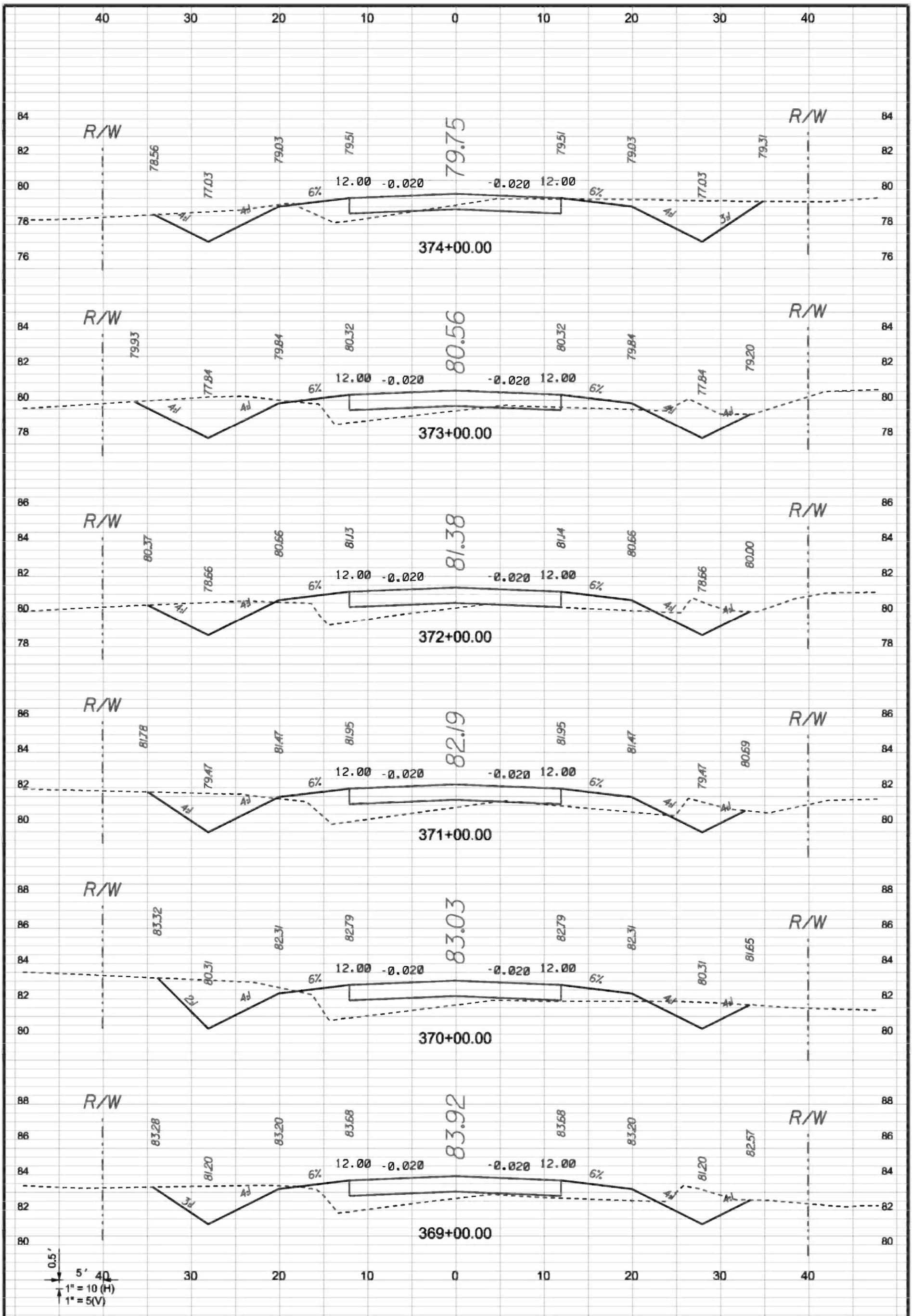
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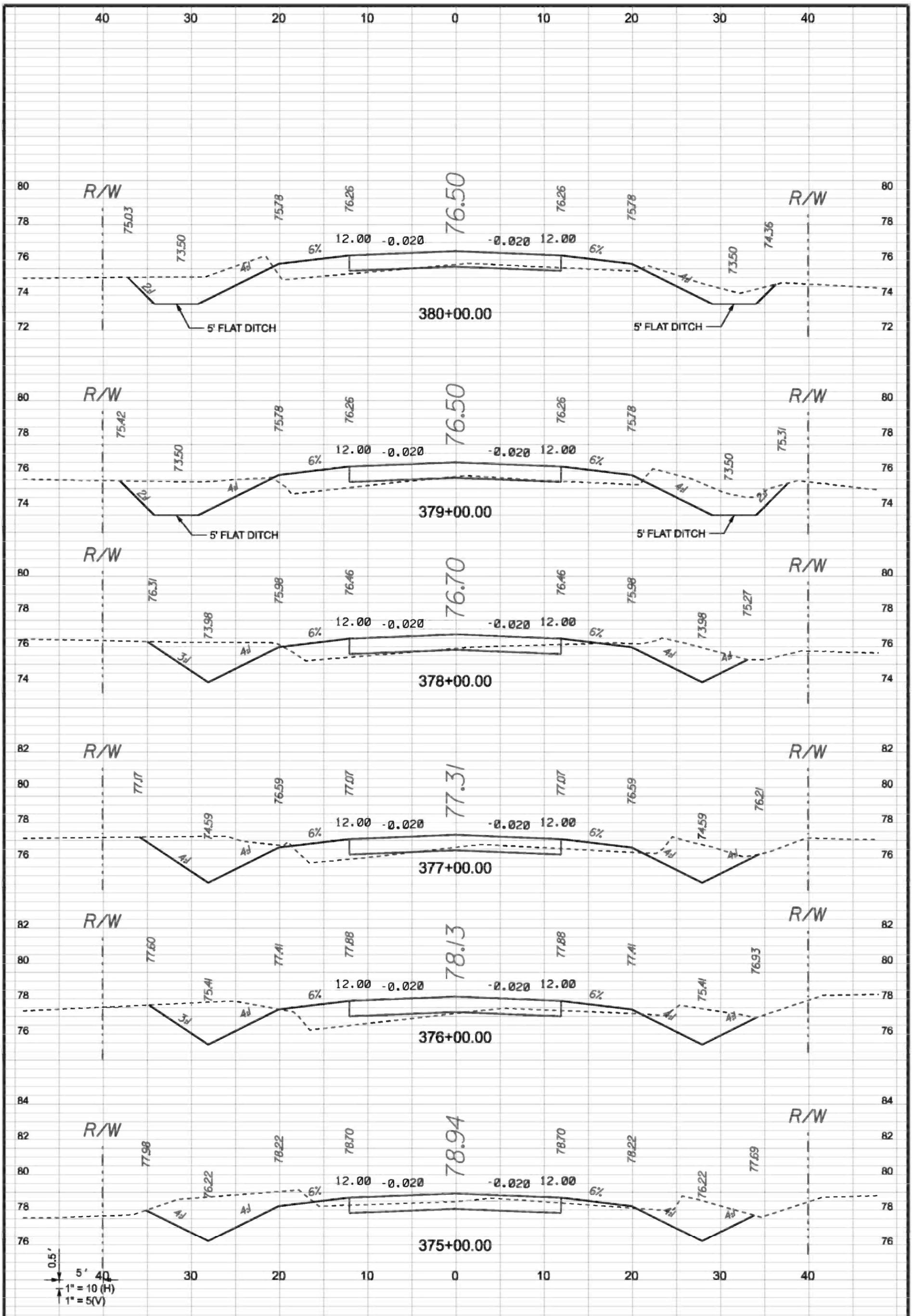
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LIVE OAK FL, 32064  
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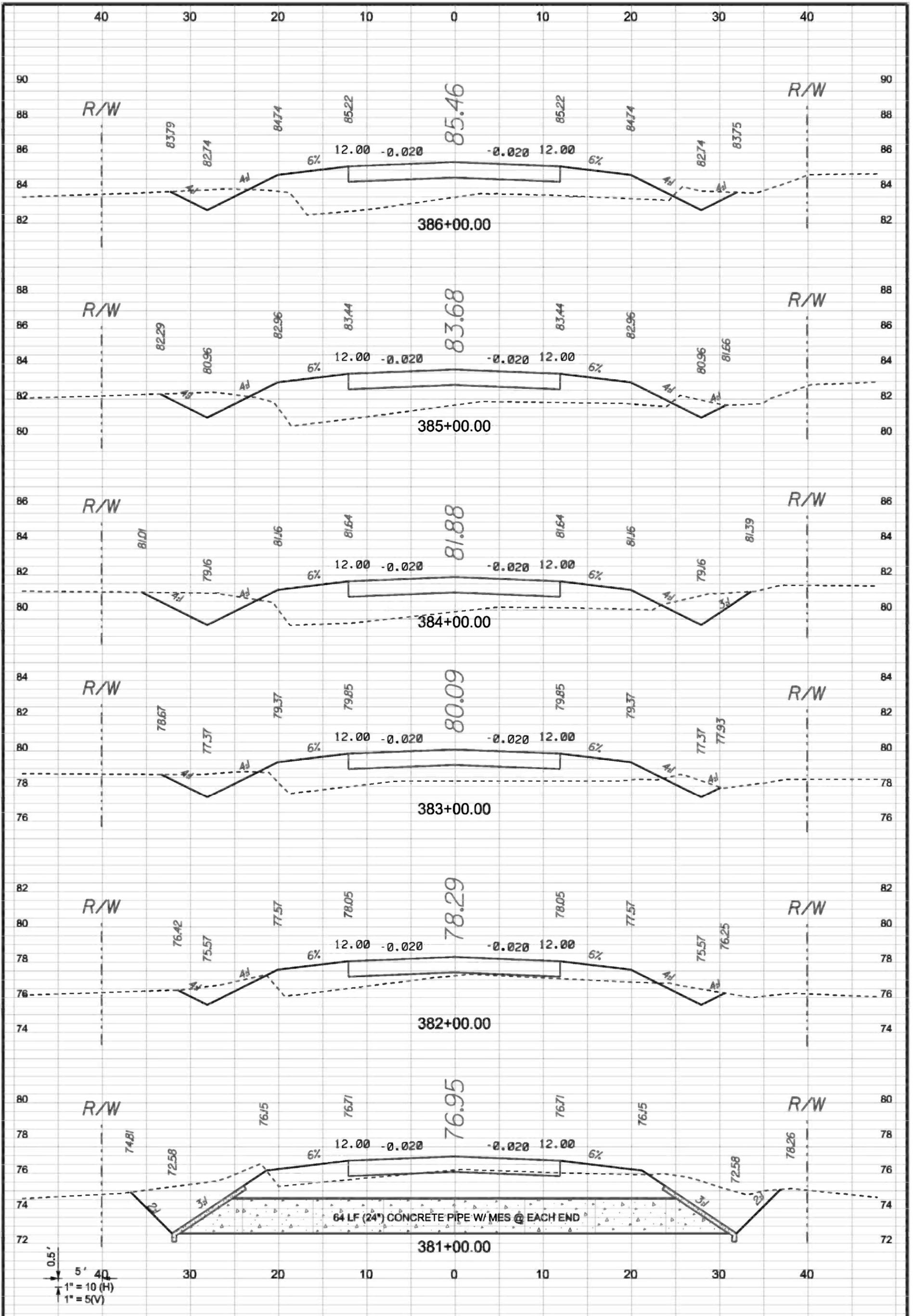
DATE	REVISION NOTES
9-20-10	



<b>SHEET</b>	<b>PROJECT NUMBER</b>	<b>DRAWN BY</b> MC	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>		P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	<b>DATE</b> 9-20-10	<b>REVISION NOTES</b>
		<b>CHECKED BY</b> CW							
<b>XSC10</b>	<b>PF08-127</b>								



SHEET <b>XSC11</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b>	CCBCC - OLD WIRE RD		P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE	REVISION NOTES
		CHECKED BY <b>CW</b>				<b>9-20-10</b>	
CROSS SECTIONS			GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com				
CENTERLINE # 1			LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828				



0.5'  
5' 40'  
1" = 10 (H)  
1" = 5 (V)

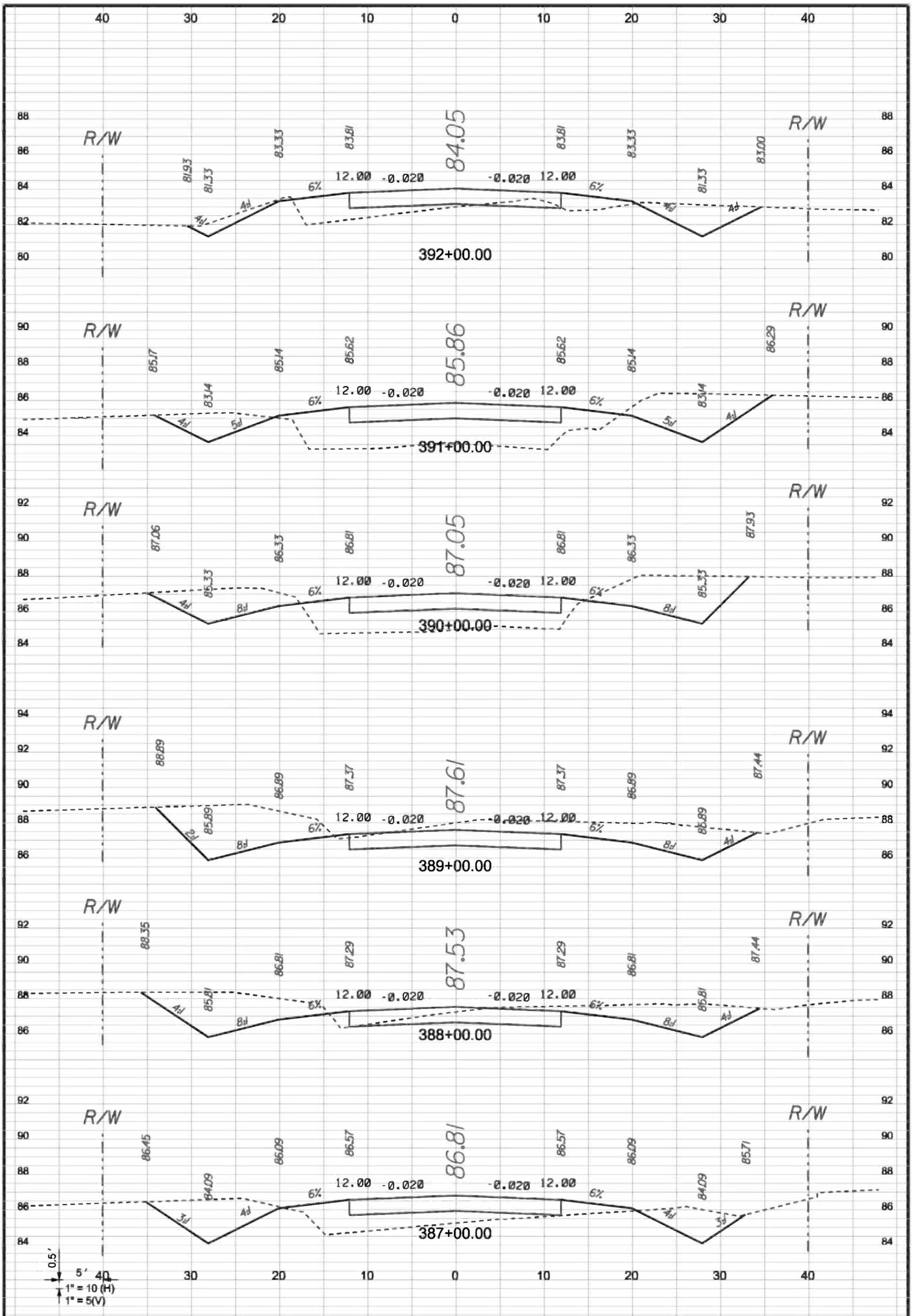
SHEET  
**XSC12**  
PROJECT NUMBER  
**PF08-127**  
DRAWN BY  
MC  
CHECKED BY  
CW

**CCBCC - OLD WIRE RD**  
**CROSS SECTIONS**  
**CENTERLINE # 1**



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9-20-10	



SHEET  
**XSC13**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

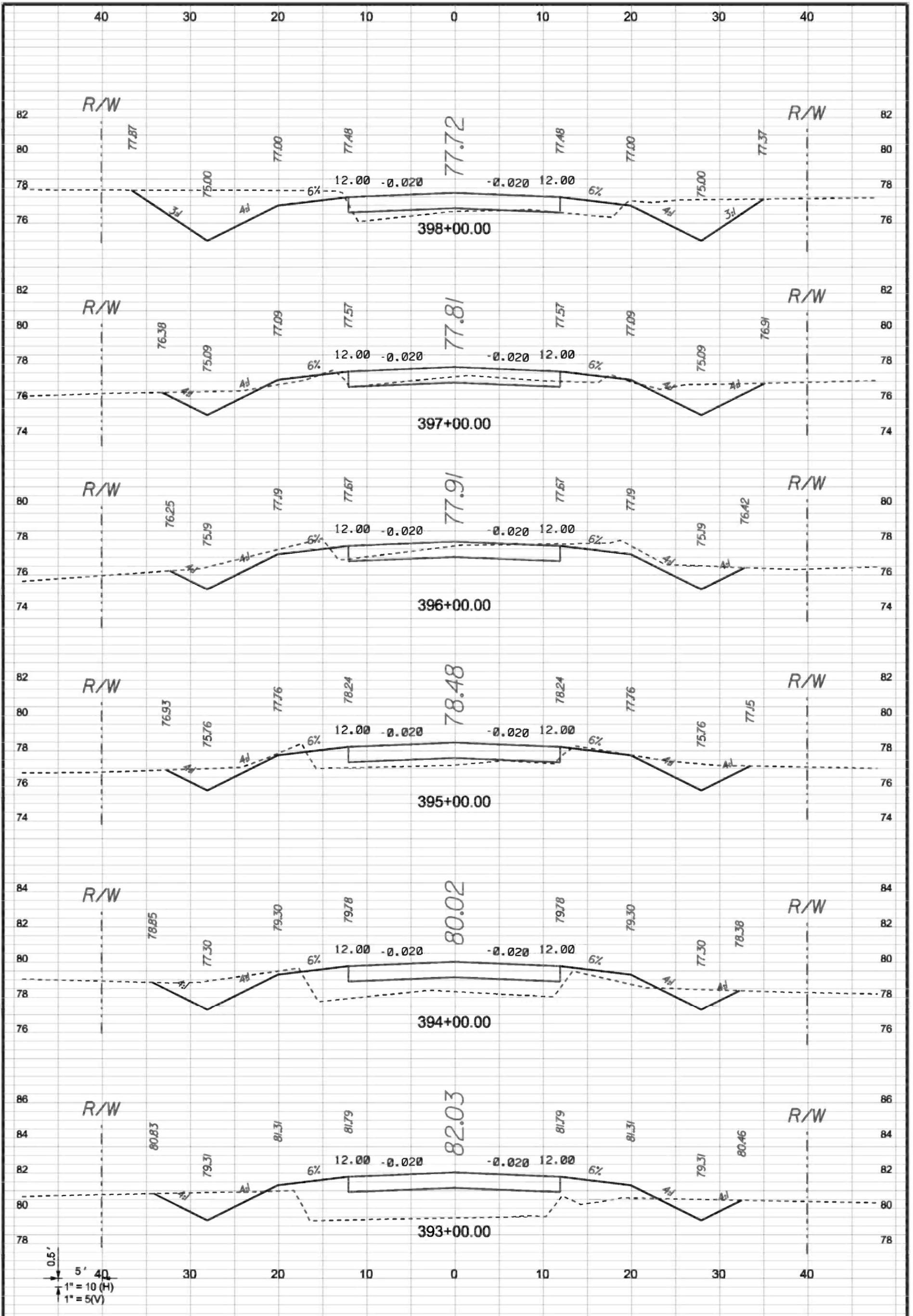


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9-20-10	

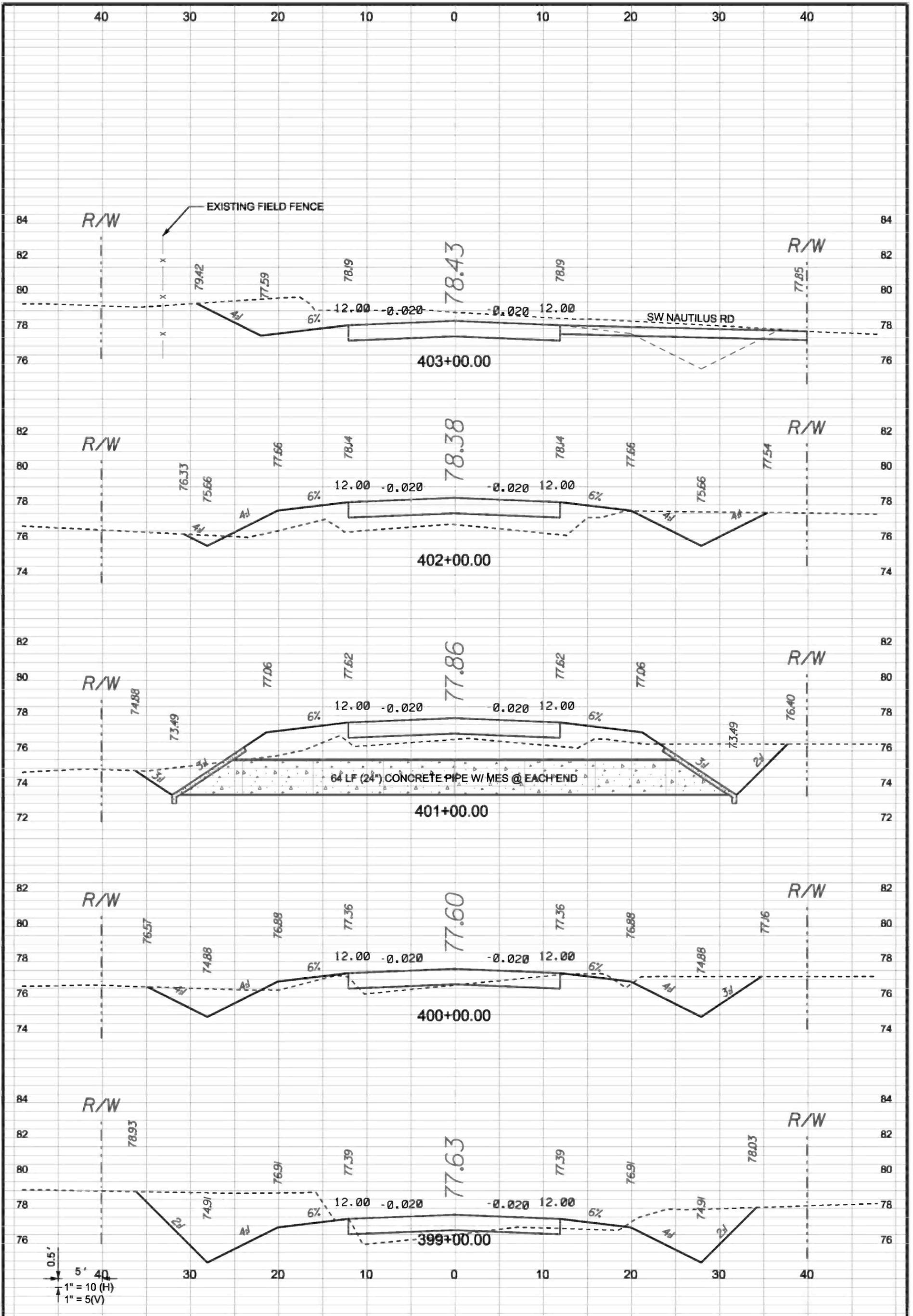


SHEET  
**XSC14**  
 PROJECT NUMBER  
**PF08-127**  
 DRAWN BY  
**MC**  
 CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**  
**CROSS SECTIONS**  
**CENTERLINE # 1**

  
 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD  
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9-20-10	



SHEET  
**XSC15**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

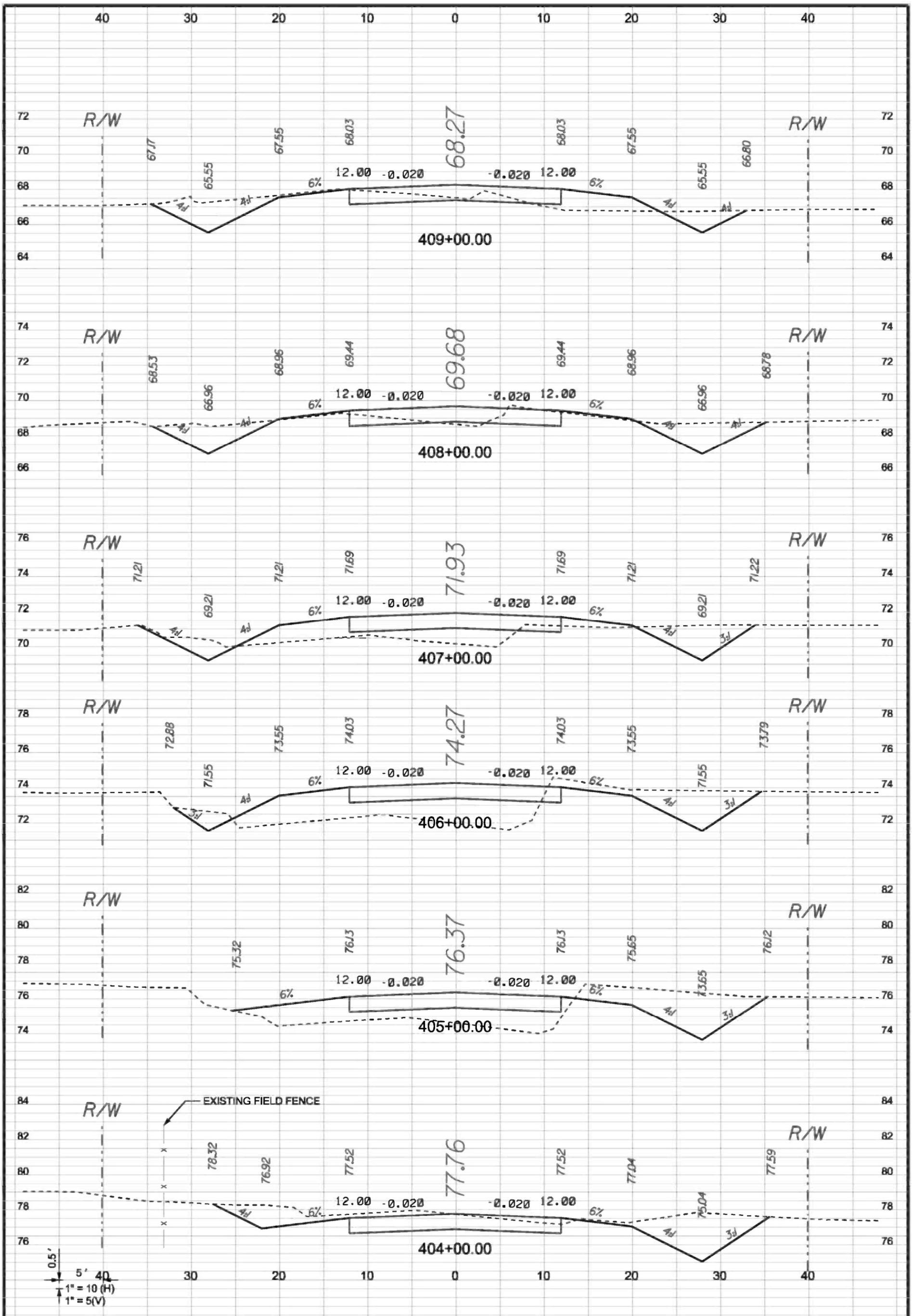
**OG**

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FAX: (386) 362-6133

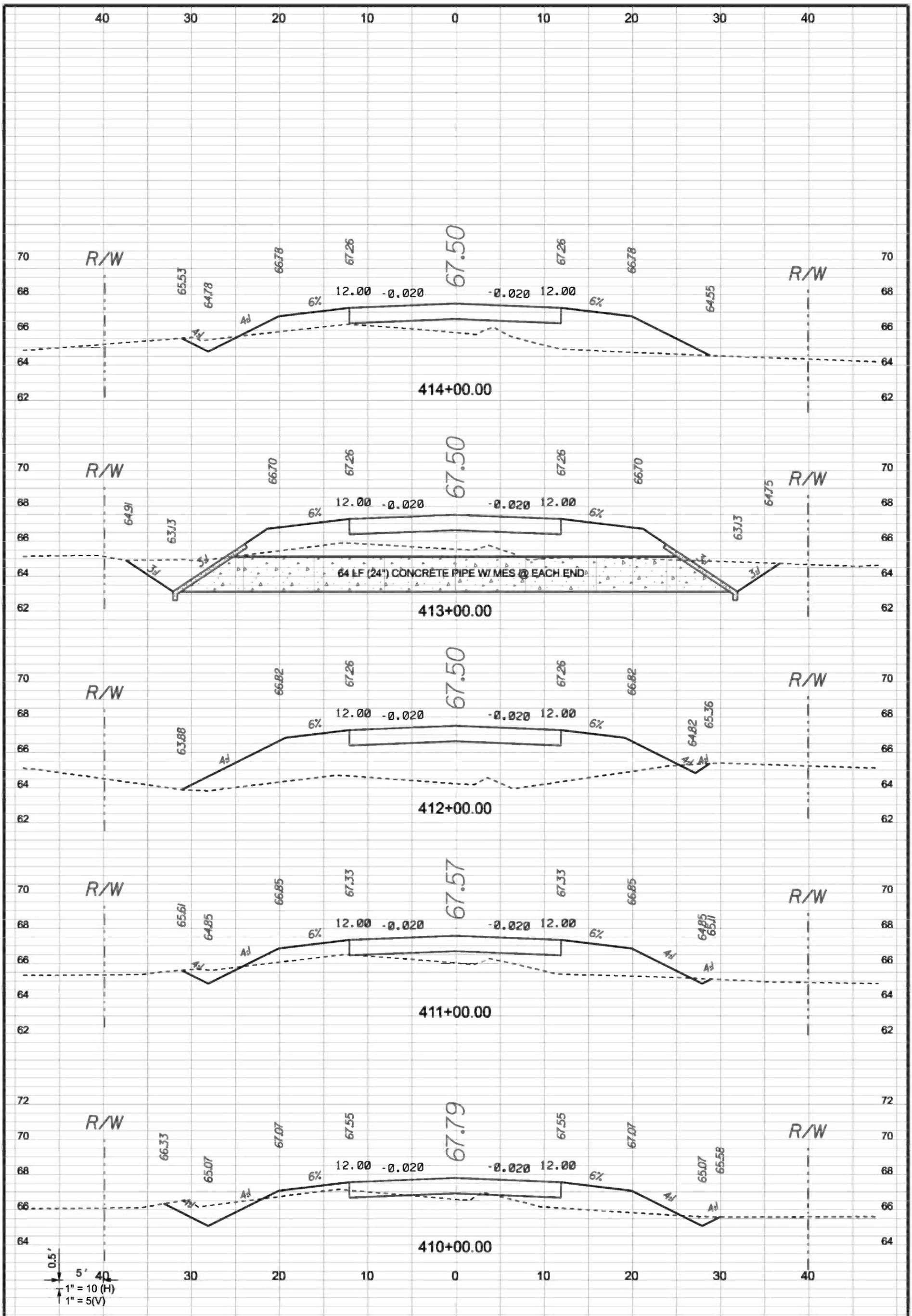
LAKE CITY, FL 32055  
Phone: (386) 719-9985  
Fax: (386) 719-8828

DATE	REVISION NOTES
9-20-10	



0.5'  
5'  
1" = 10 (H)  
1" = 5(V)

SHEET <b>XSC16</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



0.5'  
5'  
1" = 10 (H)  
1" = 5 (V)

SHEET  
**XSC17**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

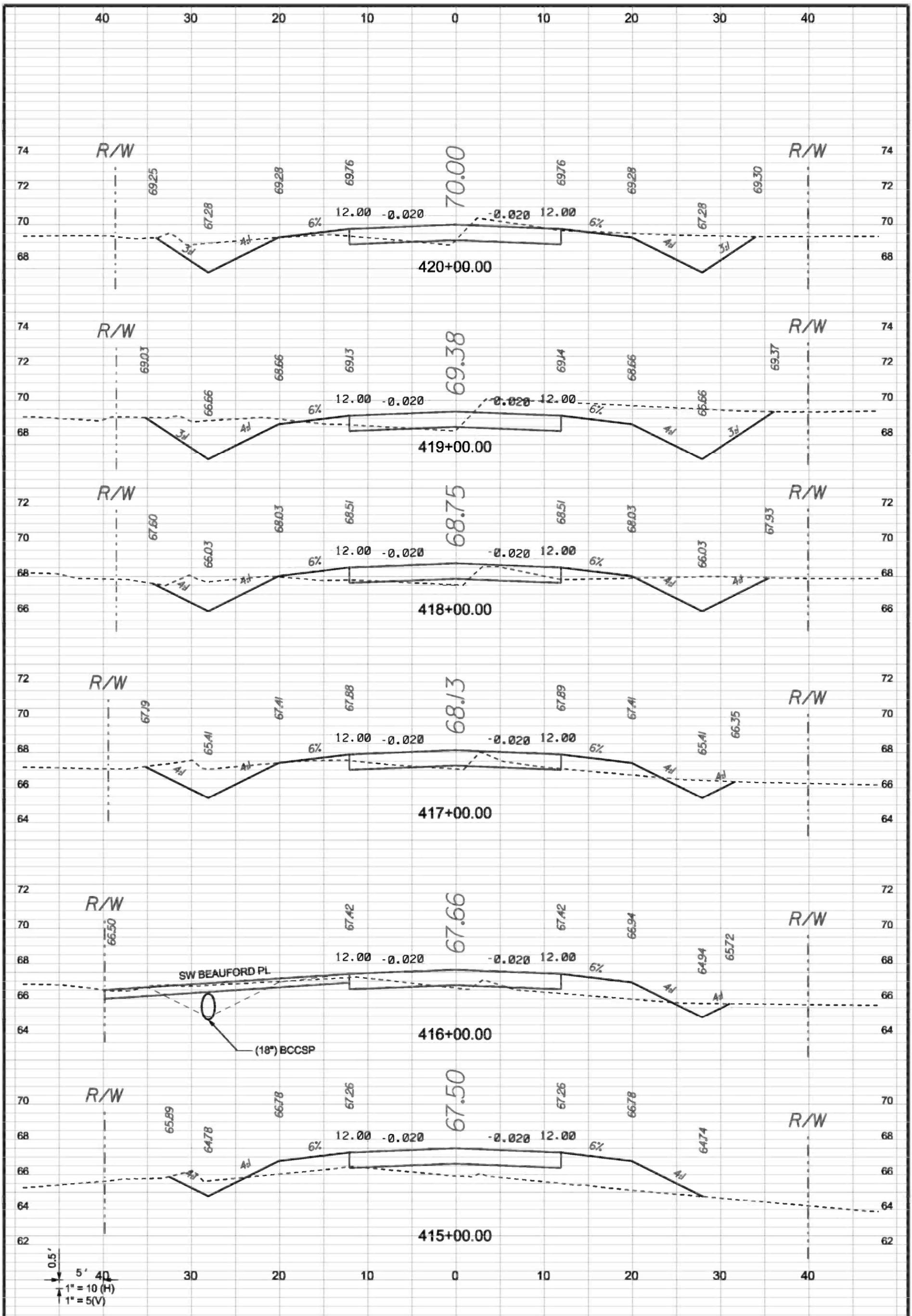
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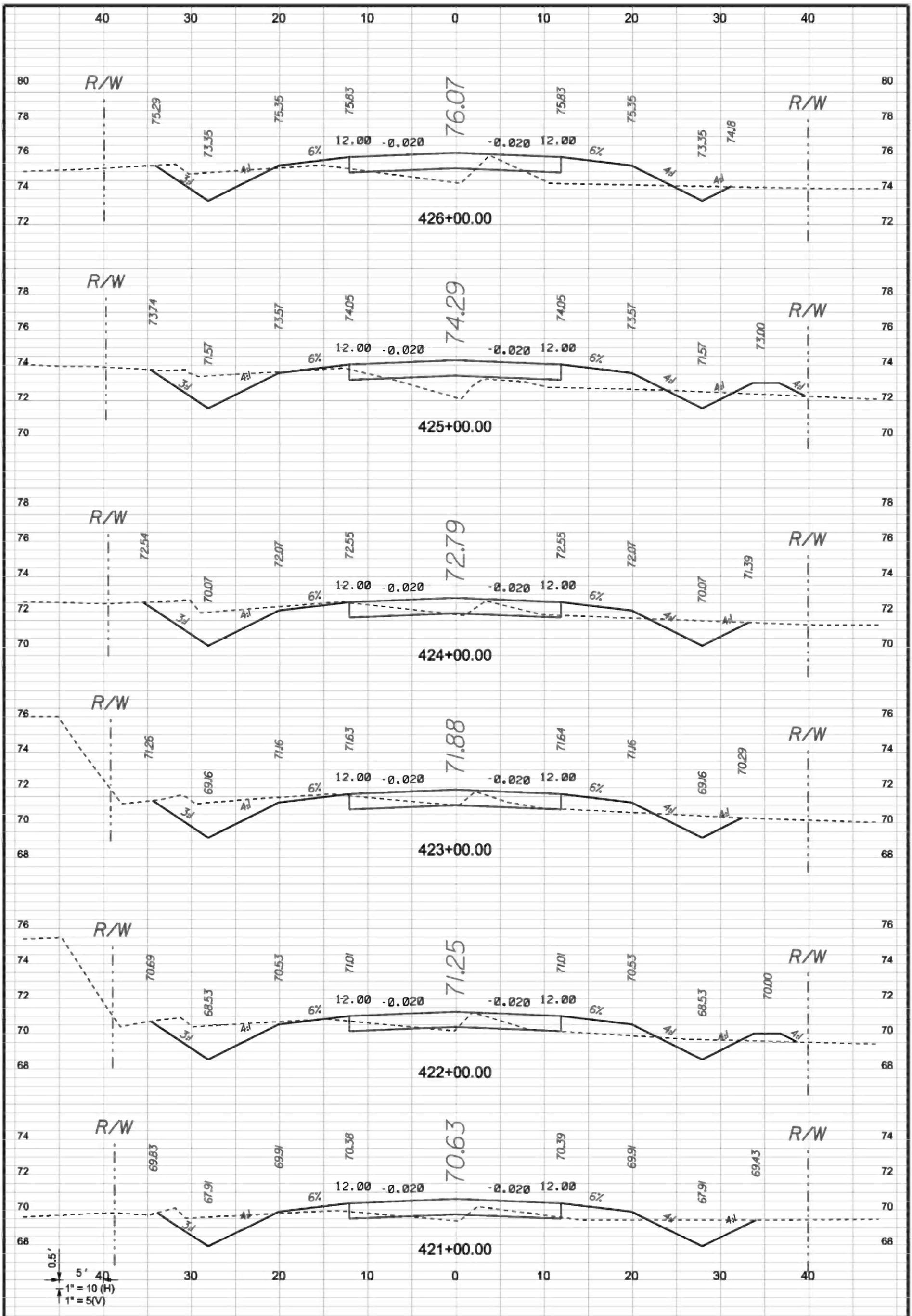
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FAX: (386) 362-6133

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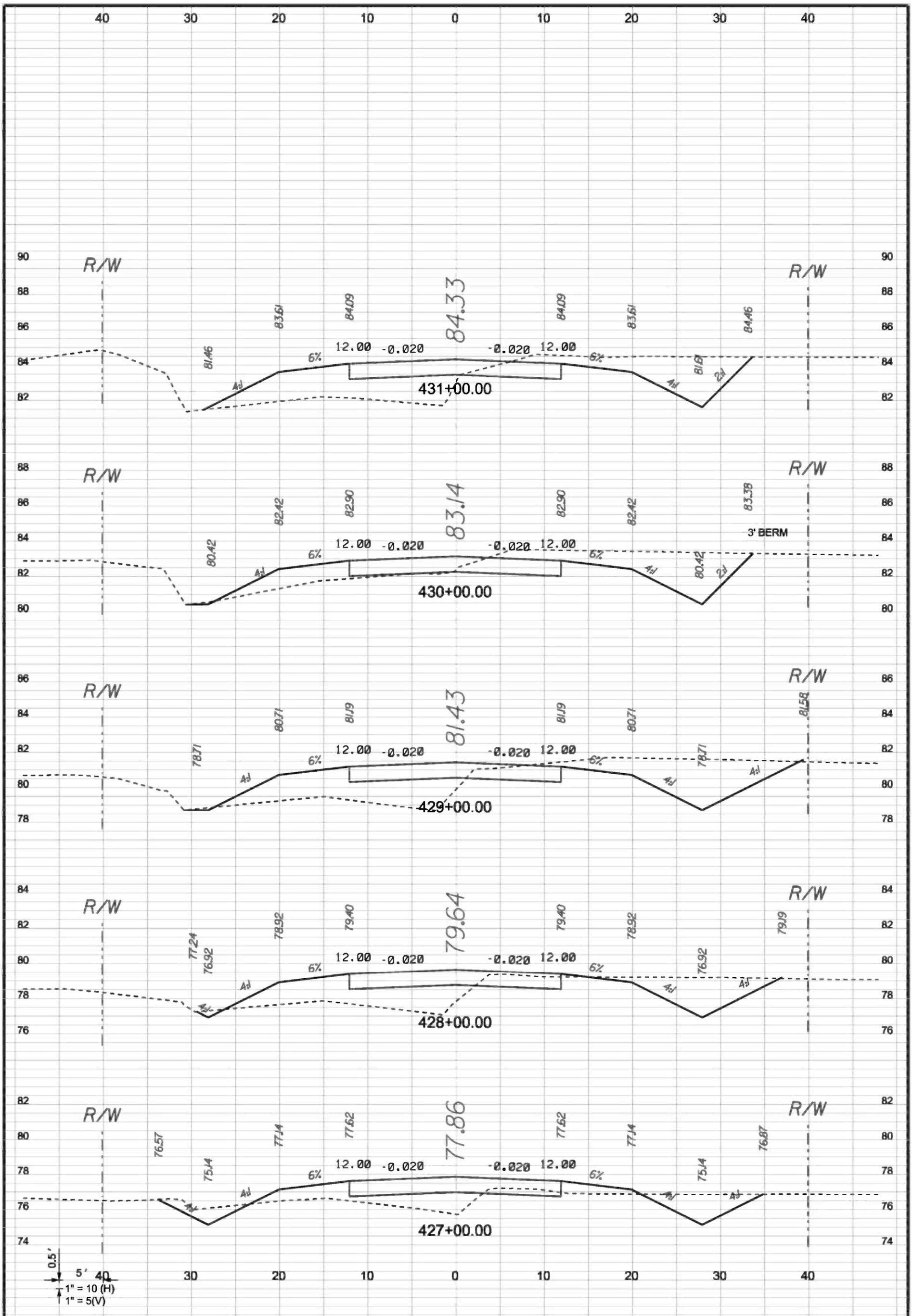
DATE	REVISION NOTES
9-20-10	



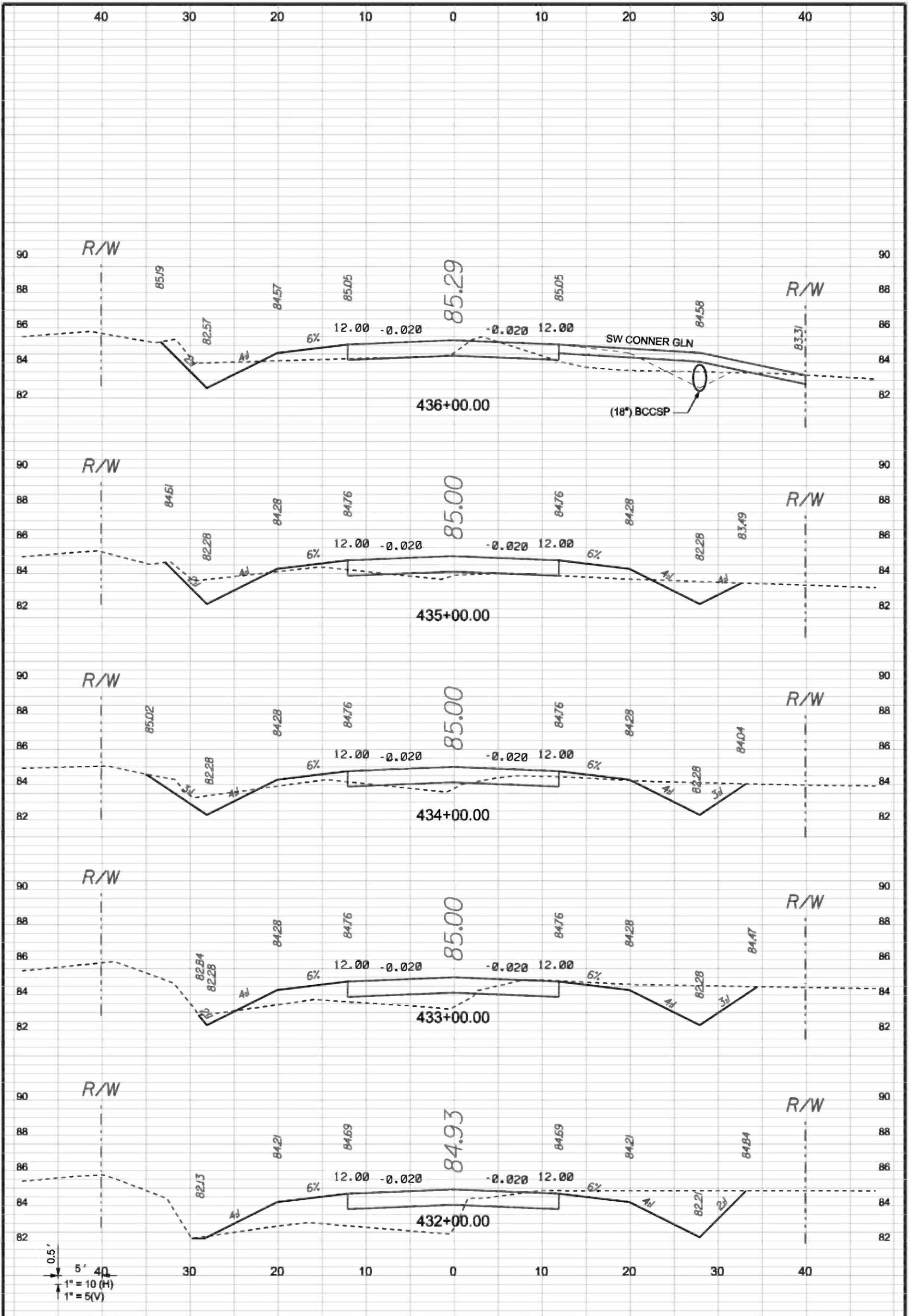
SHEET <b>XSC18</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	P.O. BOX 187 130 W HOWARD ST LAKE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



SHEET <b>XSC19</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES
		CHECKED BY <b>CW</b>					LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828		



SHEET <b>XSC20</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187	DATE	REVISION NOTES
		CHECKED BY <b>CW</b>					130 W HOWARD ST	9-20-10	
							LIVE OAK FL, 32064		
							PHONE: (386) 362-3678		
							FAX: (386) 362-6133		



SHEET  
**XSC21**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

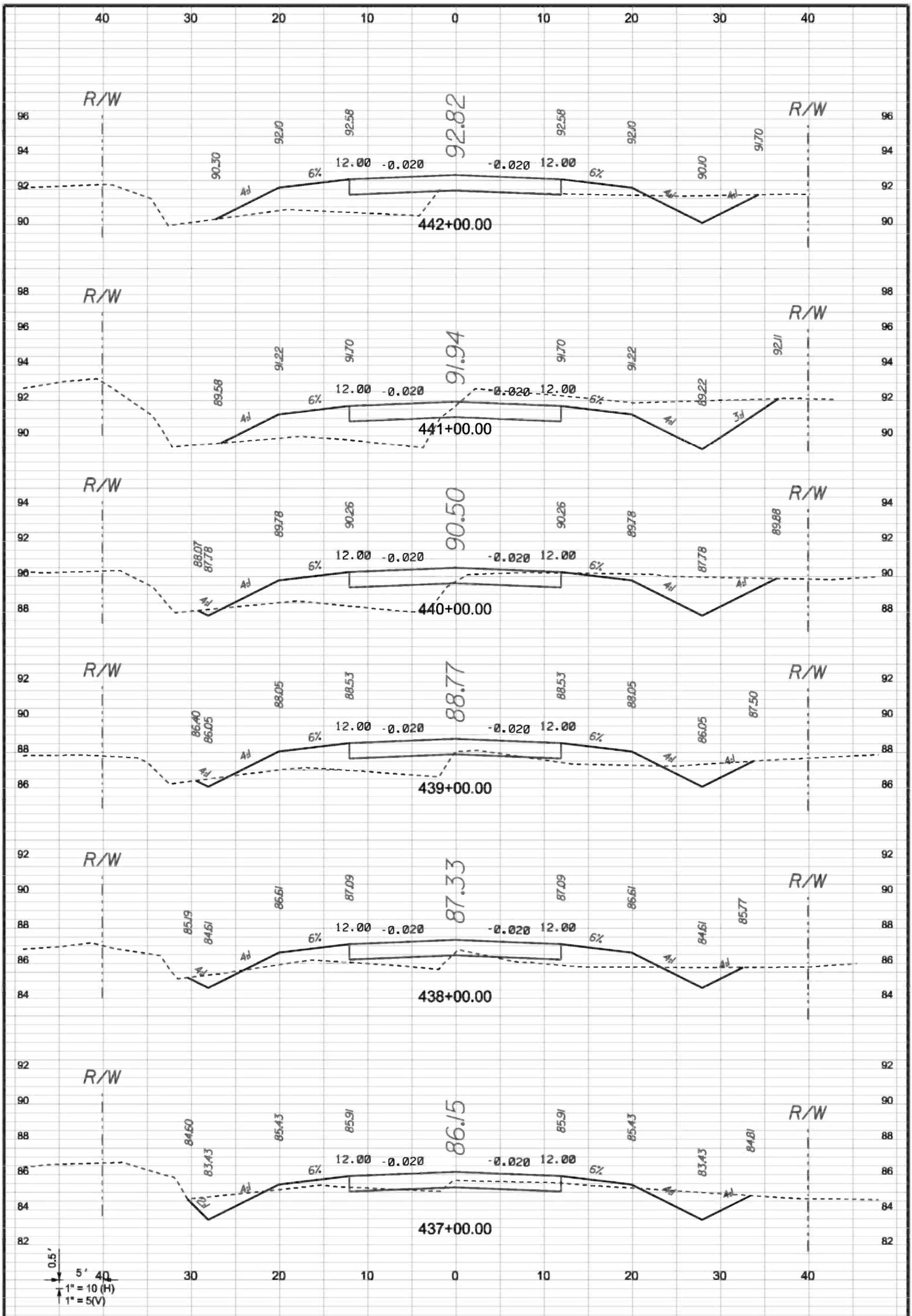
**CENTERLINE # 1**

**OG**

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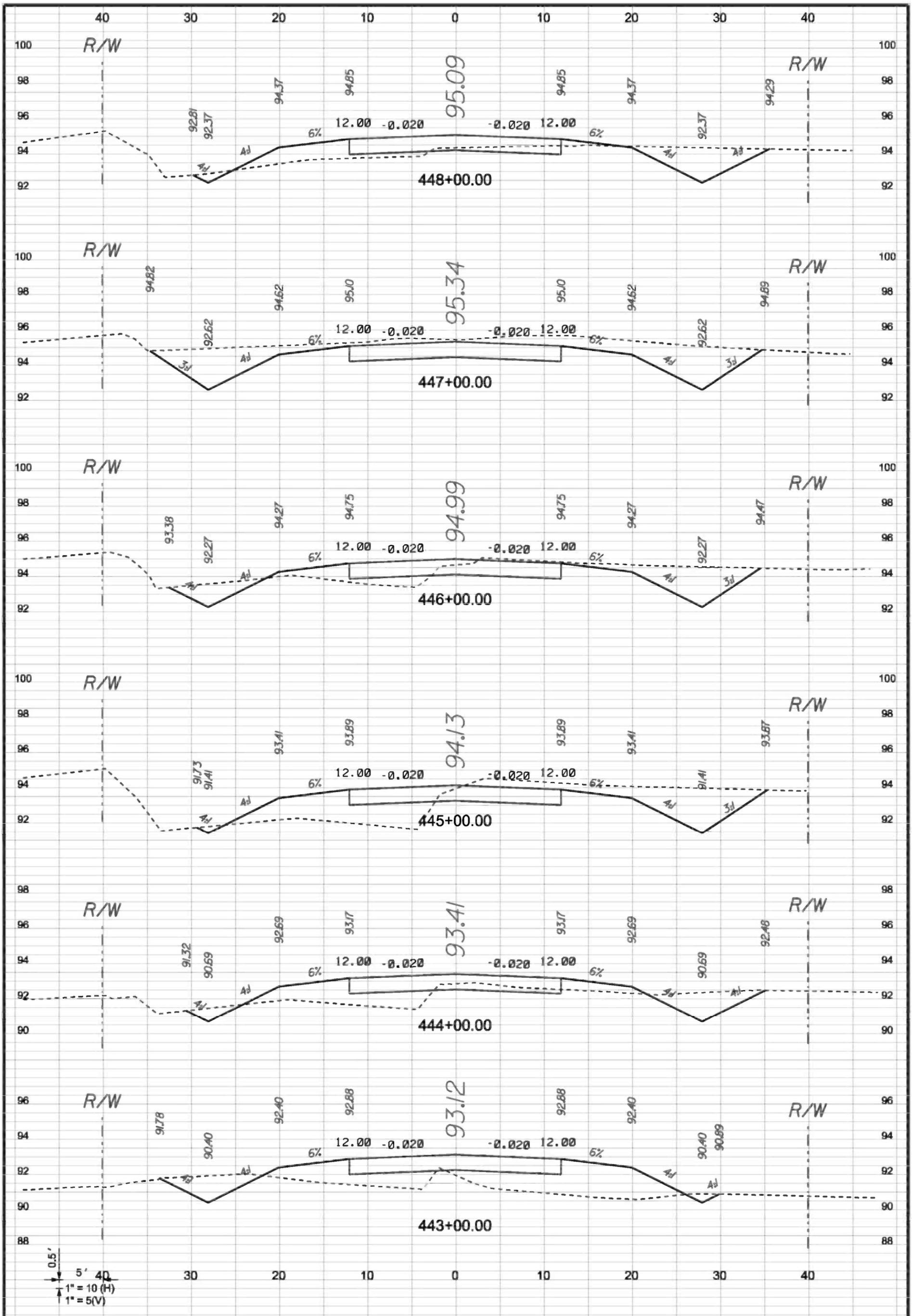
P.O. BOX 187  
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 FAX: (386) 362-6133

DATE	REVISION NOTES
9-20-10	



0.5'  
5'  
1" = 10 (H)  
1" = 5 (V)

SHEET <b>XSC22</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>  <b>CROSS SECTIONS</b>  <b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



SHEET  
**XSC23**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

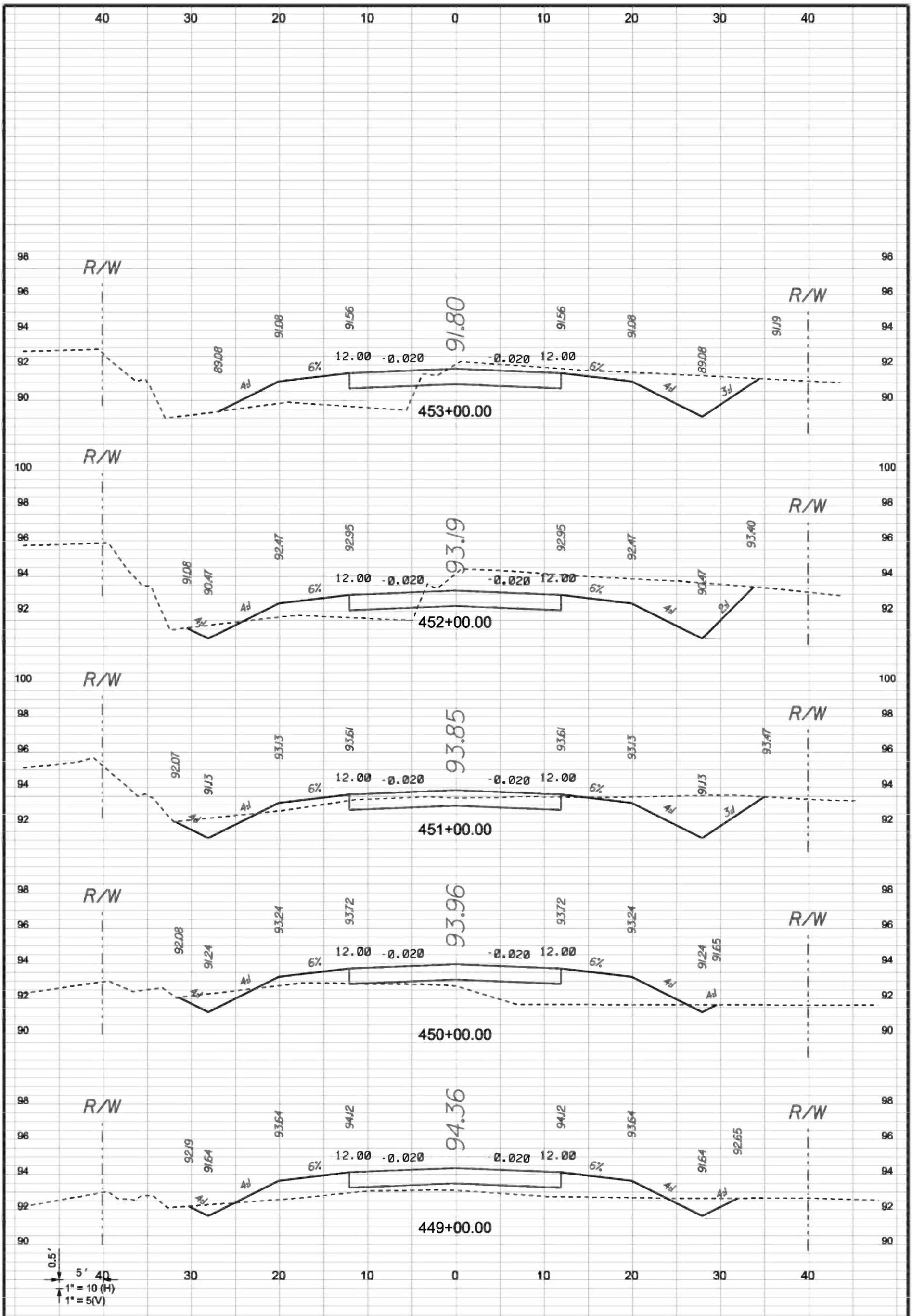
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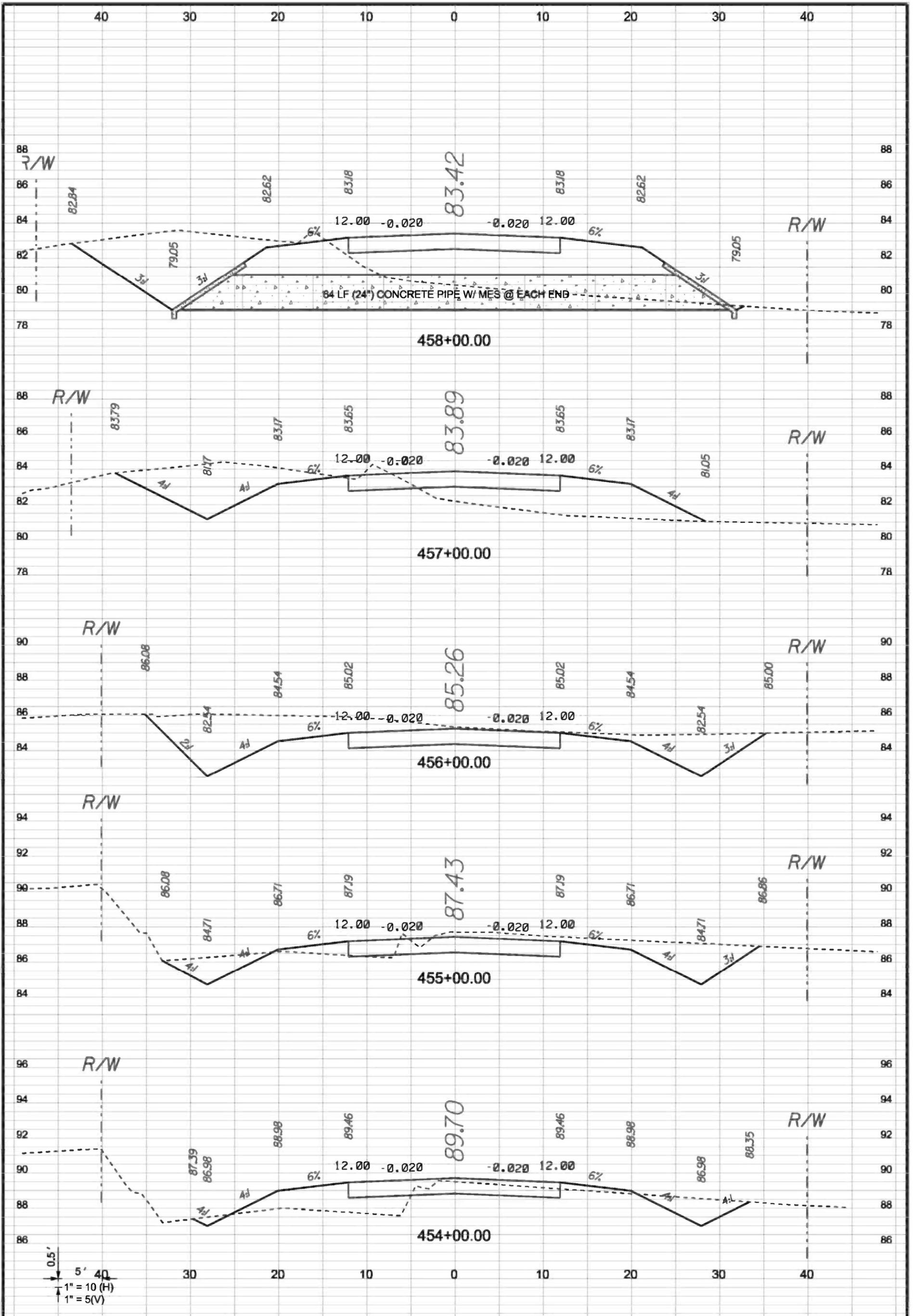
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DATE	REVISION NOTES
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<b>SHEET</b> <b>XSC24</b>	<b>PROJECT NUMBER</b> PF08-127	<b>DRAWN BY</b> MC	<b>CCBCC - OLD WIRE RD</b>  <b>CROSS SECTIONS</b>  <b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	<b>P.O. BOX 187</b> 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	<b>DATE</b> 8-20-10	<b>REVISION NOTES</b>



SHEET  
**XSC25**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

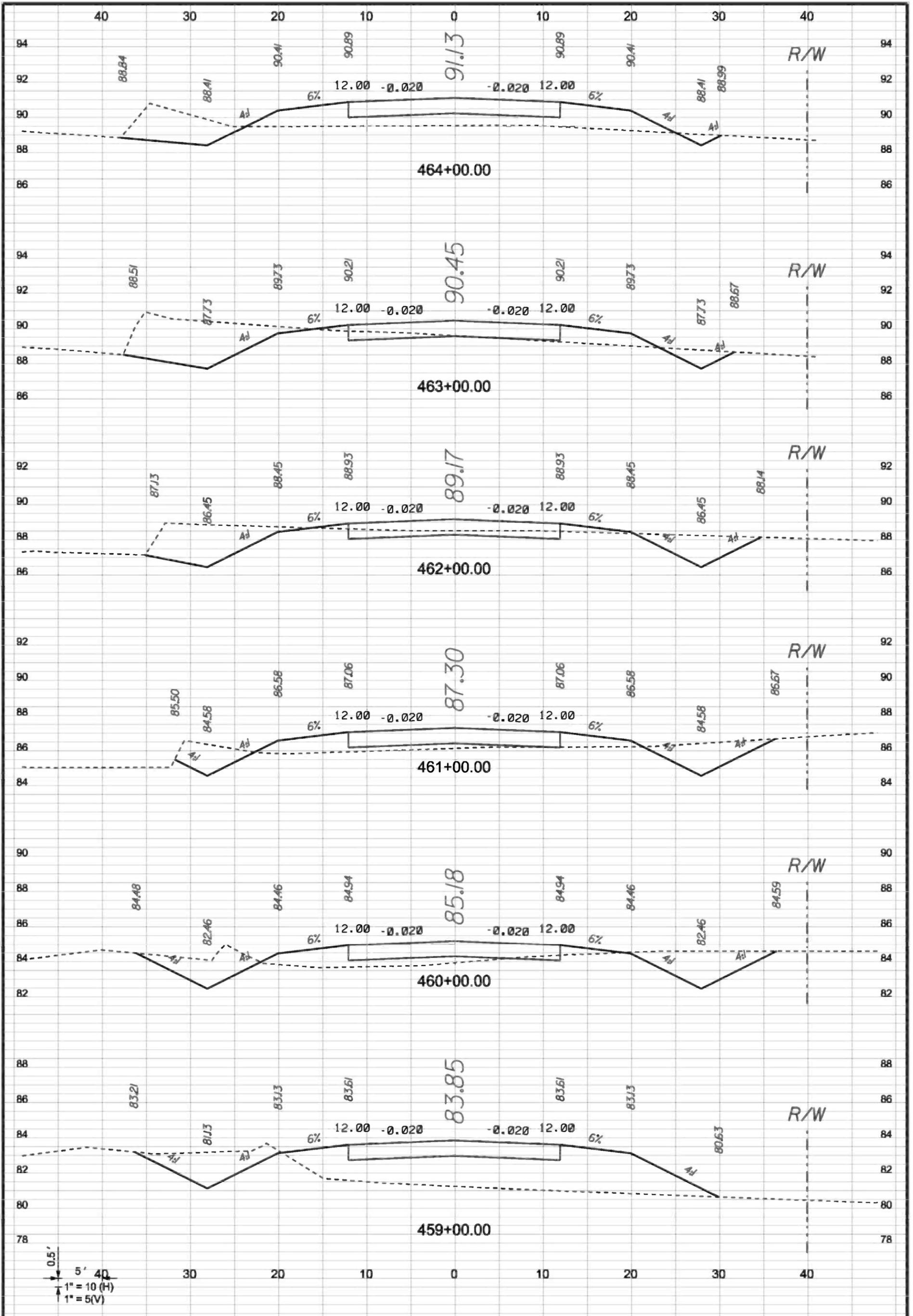
**CG**

GTC Design Group, LLC. 176 NW LAKE JEFFREY RD  
Auth. # 9461  
Structural / Civil Engineers  
www.gtcdesigngroup.com

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130 W HOWARD ST  
LIVE OAK FL, 32064  
PHONE: (386) 362-3678  
FAX: (386) 362-6133

LAKE CITY, FL 32055  
Phone: (386) 719-9985  
Fax: (386) 719-8828

DATE	REVISION NOTES
9-20-10	



0.5'  
5'  
40'  
1" = 10' (H)  
1" = 5' (V)

SHEET  
**XSC26**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

**CENTERLINE # 1**

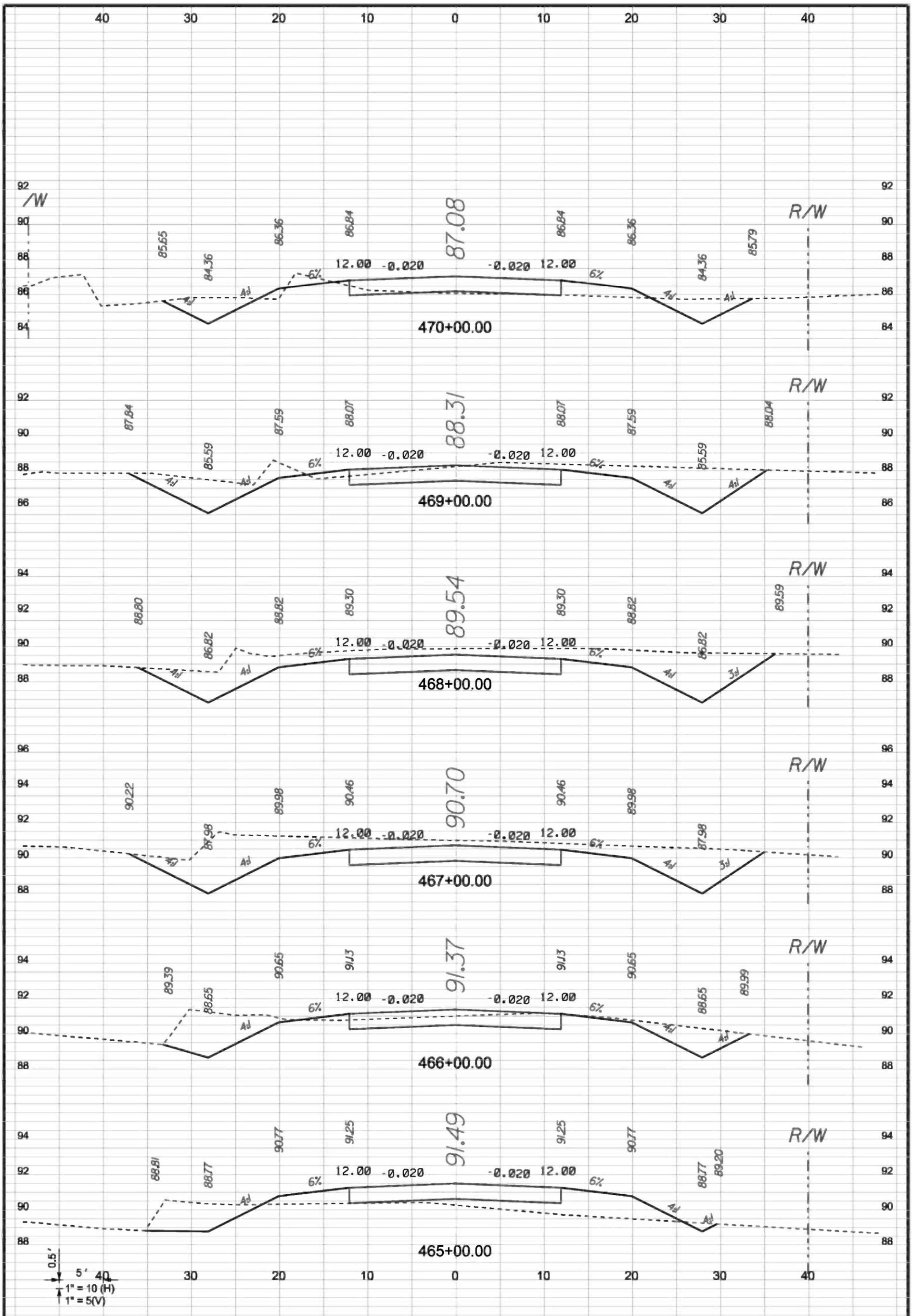
**CG**

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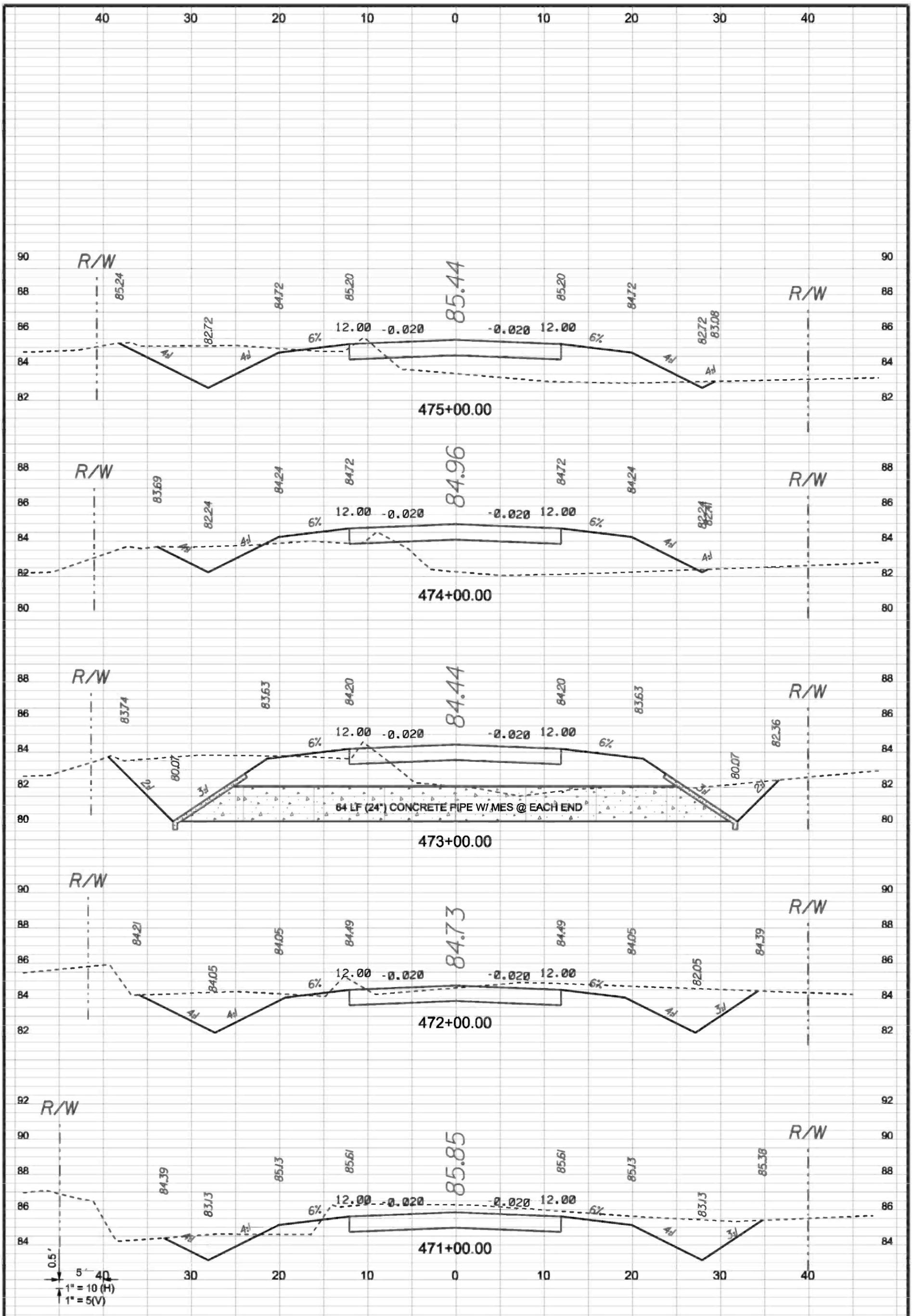
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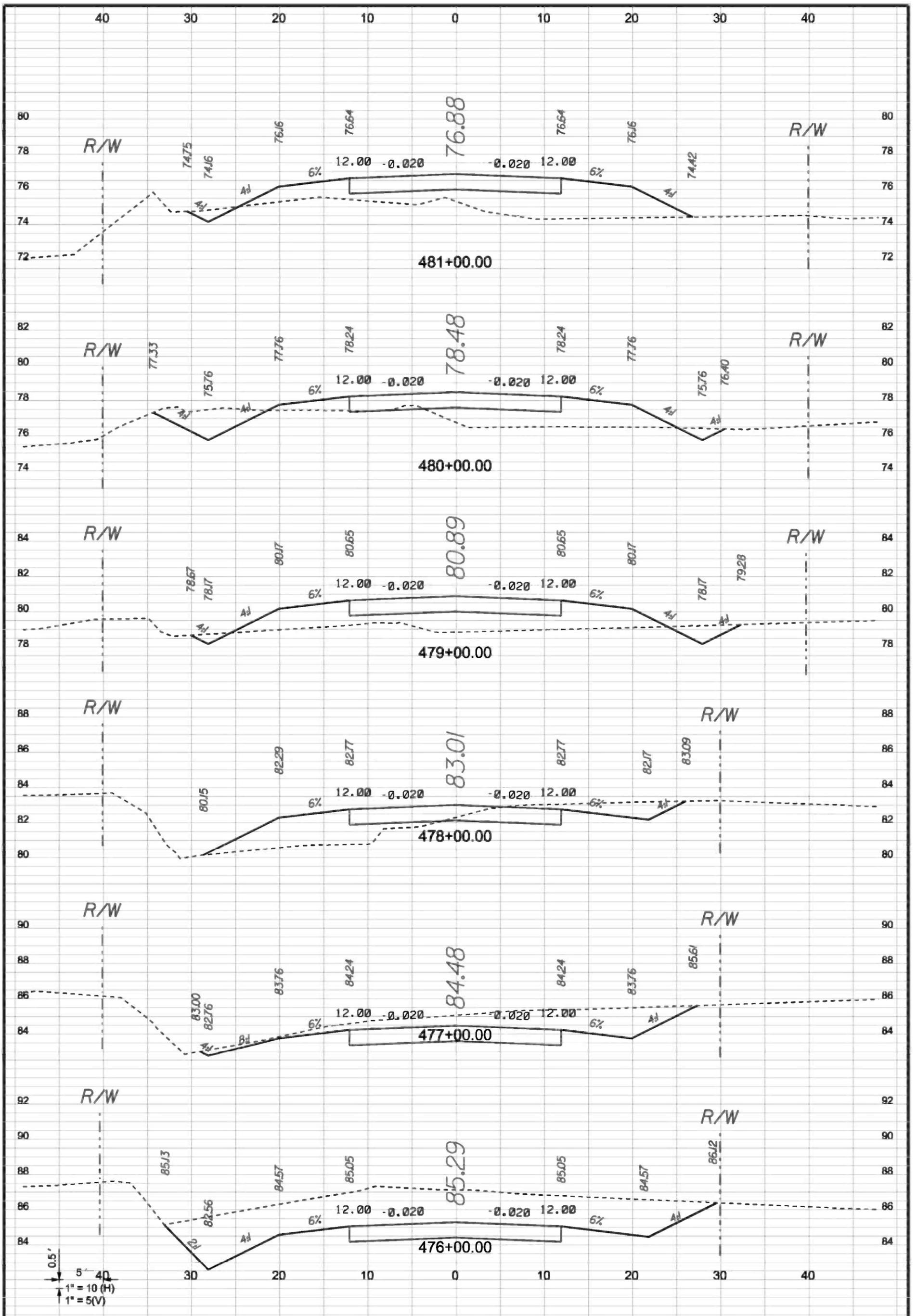
DATE	REVISION NOTES
9-20-10	



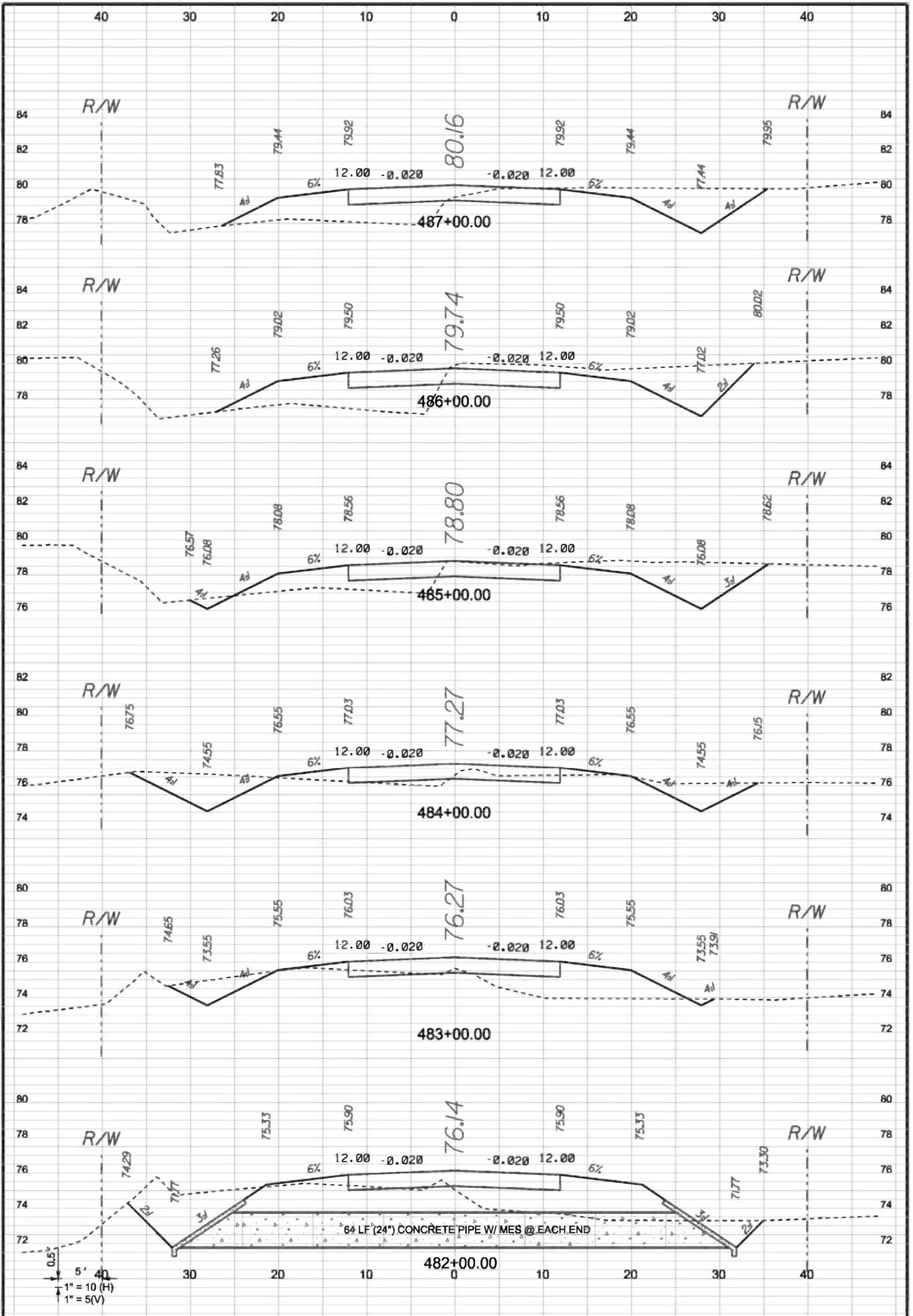
SHEET <b>XSC27</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>  <b>CROSS SECTIONS</b>  <b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 Structural / Civil Engineers www.gtcdesigngroup.com	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



SHEET <b>XSC28</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>	<b>CROSS SECTIONS</b>	<b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



SHEET <b>XSC29</b>	PROJECT NUMBER <b>PF08-127</b>	DRAWN BY <b>MC</b> CHECKED BY <b>CW</b>	<b>CCBCC - OLD WIRE RD</b>  <b>CROSS SECTIONS</b>  <b>CENTERLINE # 1</b>	 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD Auth. # 9461 LAKE CITY, FL 32055 Structural / Civil Engineers Phone: (386) 719-9985 www.gtcdesigngroup.com Fax: (386) 719-8828	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	DATE <b>9-20-10</b>	REVISION NOTES



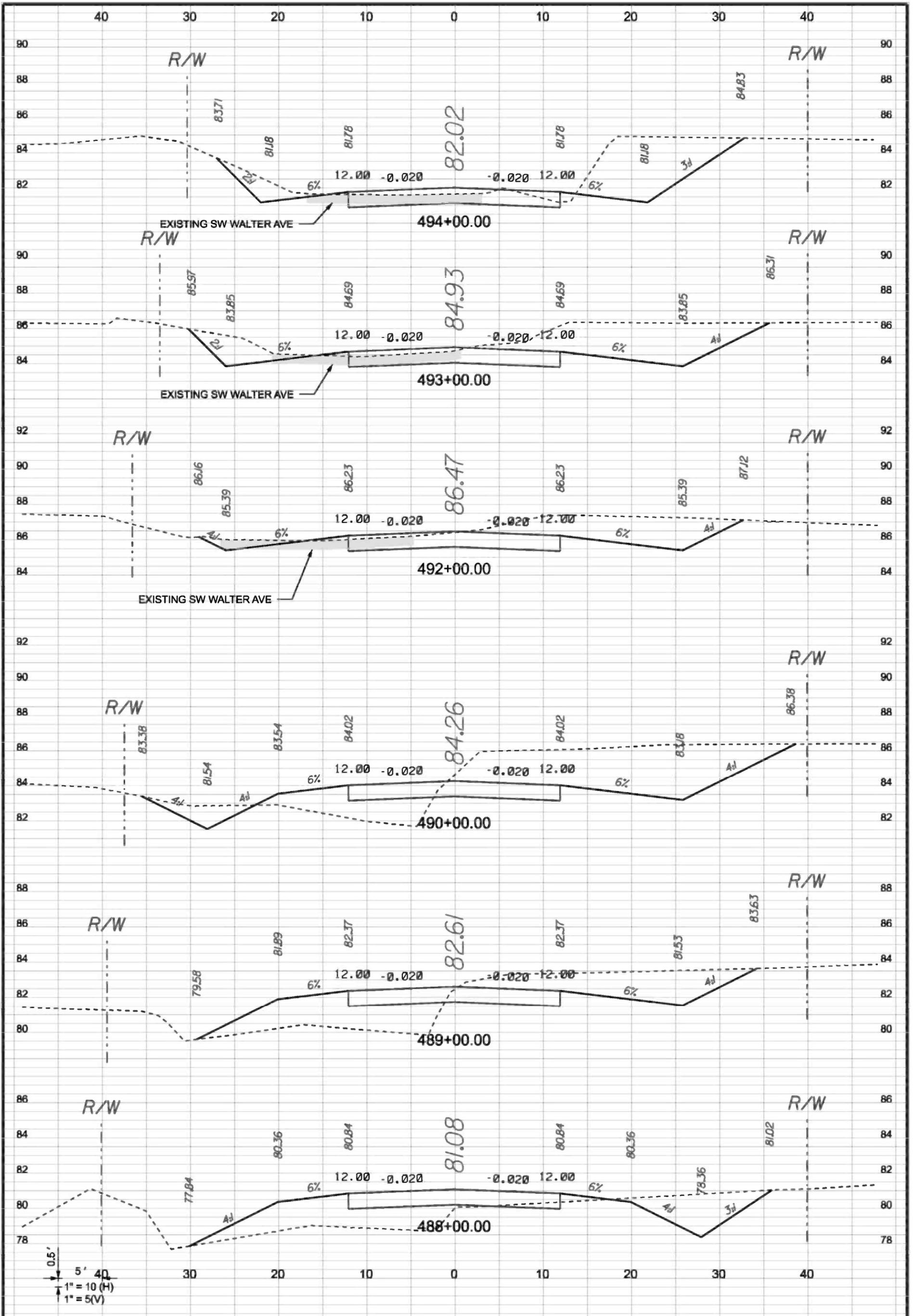
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1" = 10 (H)  
1" = 5 (V)

SHEET  
**XSC30**  
PROJECT NUMBER  
**PF08-127**  
DRAWN BY  
**MC**  
CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**  
**CROSS SECTIONS**  
**CENTERLINE # 1**

**JG**  
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DATE	REVISION NOTES
9-20-10	



0.5'  
5'  
40'  
1" = 10' (H)  
1" = 5' (V)

SHEET  
**XSC31**

PROJECT NUMBER  
**PF08-127**

DRAWN BY  
**MC**

CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**

**CROSS SECTIONS**

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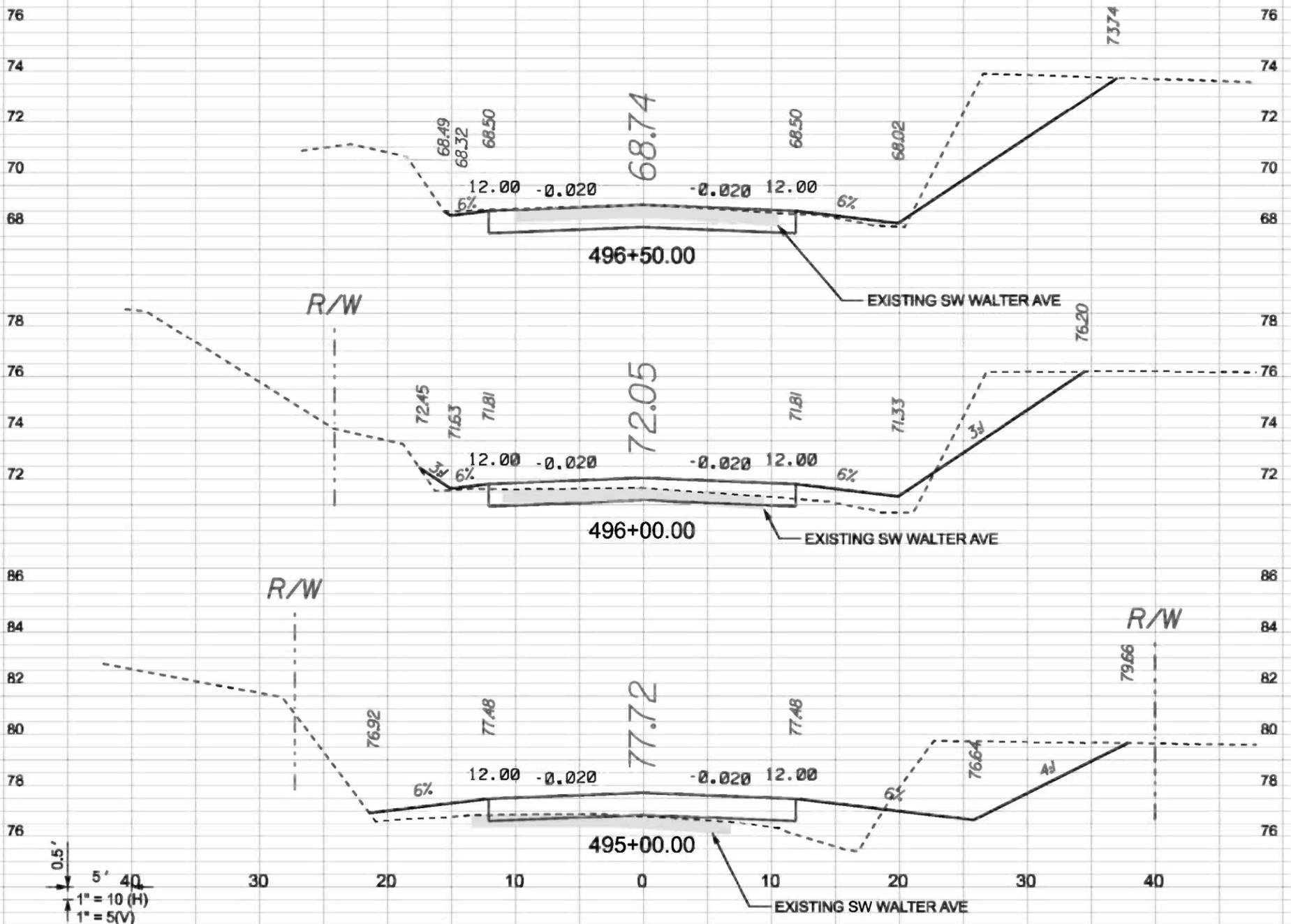
**JG**

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DATE	REVISION NOTES
9-20-10	

40 30 20 10 0 10 20 30 40

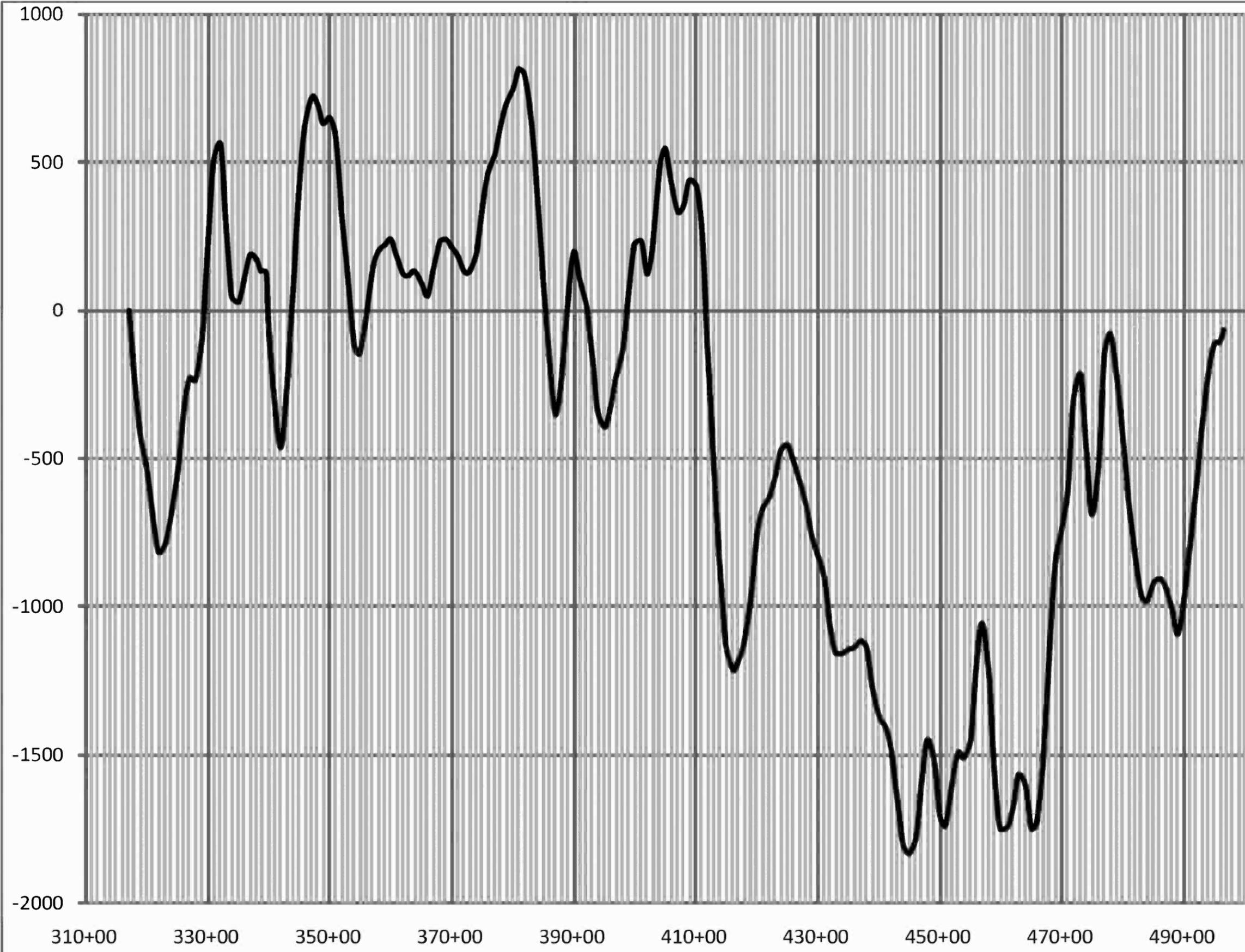


SHEET  
**XSC32**  
 PROJECT NUMBER  
**PF08-127**  
 DRAWN BY  
**MC**  
 CHECKED BY  
**CW**

**CCBCC - OLD WIRE RD**  
**CROSS SECTIONS**  
**CENTERLINE # 1**

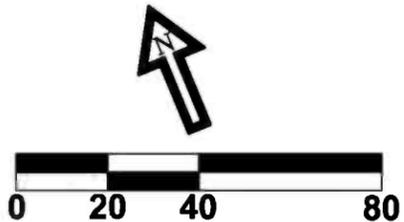
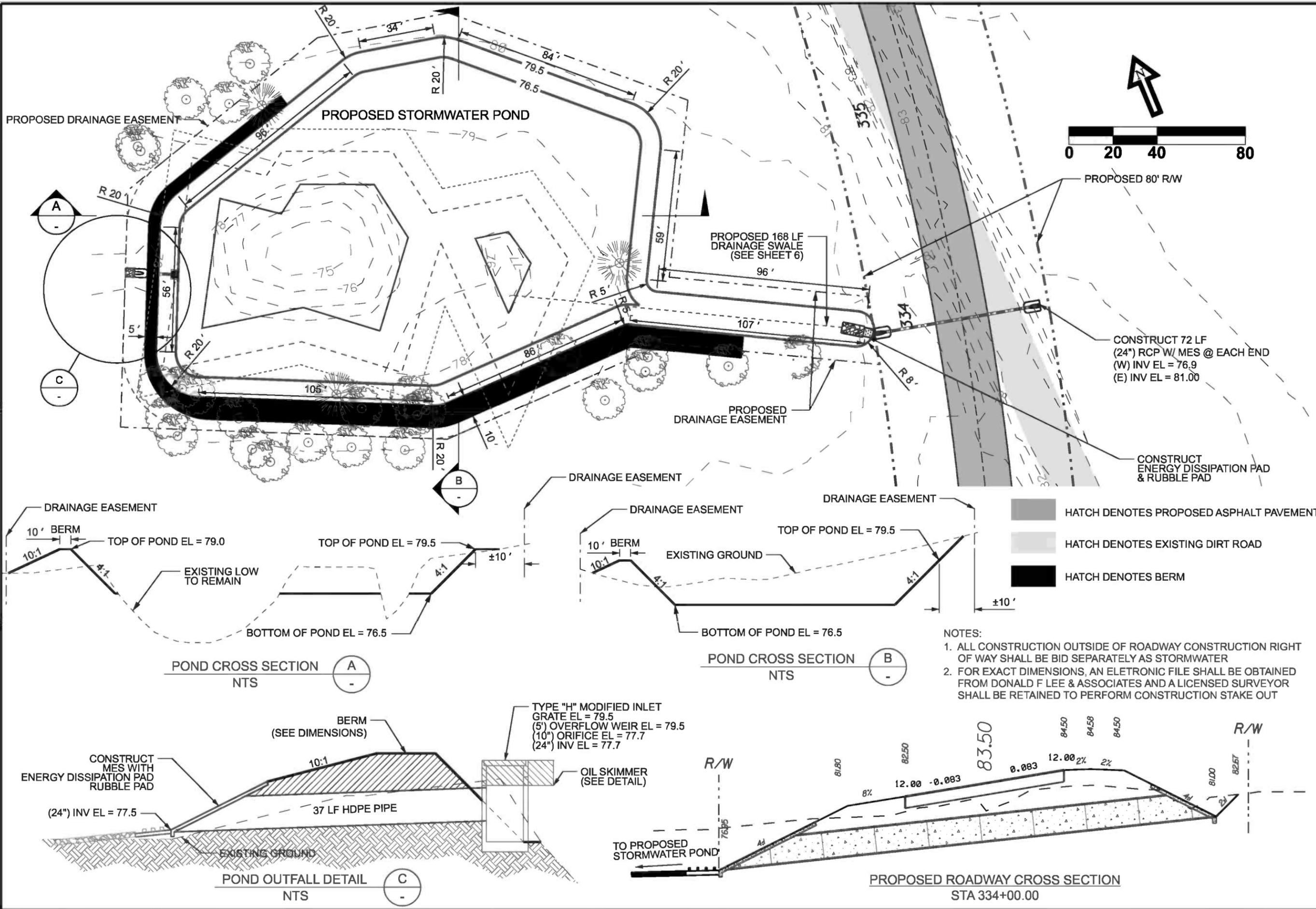
**OG**  
 GTC Design Group, LLC. 176 NW LAKE JEFFREY RD  
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DATE	REVISION NOTES
9-20-10	



NOTE: MASS DIAGRAM FOR CONTRACTOR USE ONLY. A SHRINKAGE FACTOR OF 0.5 WAS USED IN ALL FILL AREAS.

DATE		REVISION NOTES	
9-20-10			
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Auth. # 9461			
Structural / Civil Engineers			
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<p><b>CCBCC - OLD WIRE RD</b></p> <p><b>MASS DIAGRAM</b></p>			
DRAWN BY	MC	CHECKED BY	CW
PROJECT NUMBER			
PF08-127			
SHEET			
3			



PROPOSED DRAINAGE EASEMENT

PROPOSED STORMWATER POND

PROPOSED 168 LF DRAINAGE SWALE (SEE SHEET 6)

PROPOSED 80' R/W

CONSTRUCT 72 LF (24") RCP W/ MES @ EACH END (W) INV EL = 76.9 (E) INV EL = 81.00

CONSTRUCT ENERGY DISSIPATION PAD & RUBBLE PAD

DRAINAGE EASEMENT

DRAINAGE EASEMENT

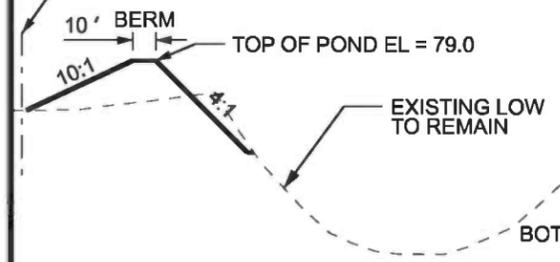
DRAINAGE EASEMENT

DRAINAGE EASEMENT

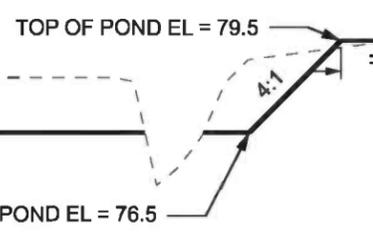
HATCH DENOTES PROPOSED ASPHALT PAVEMENT

HATCH DENOTES EXISTING DIRT ROAD

HATCH DENOTES BERM

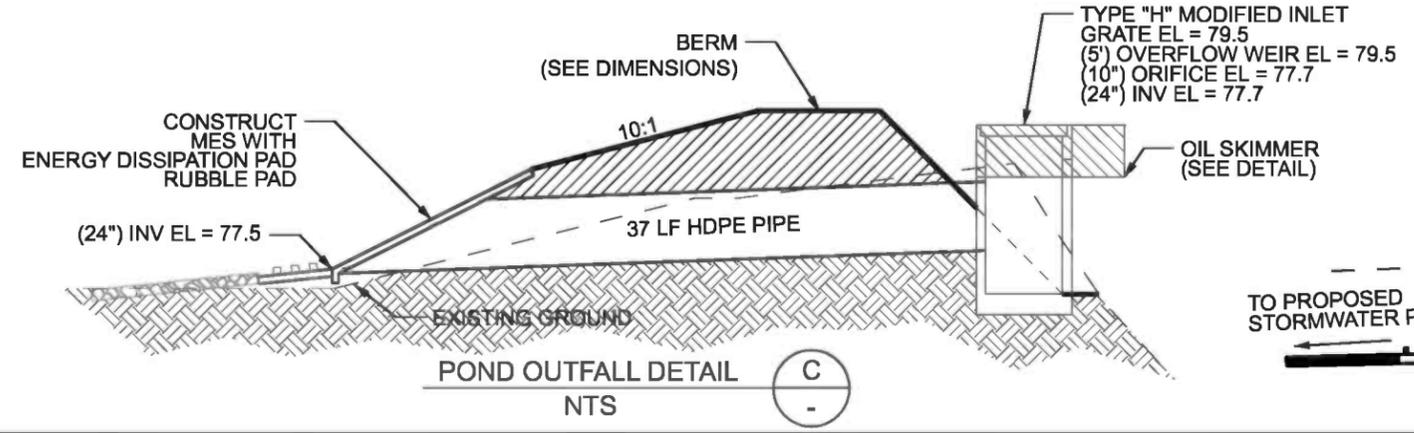


POND CROSS SECTION A NTS

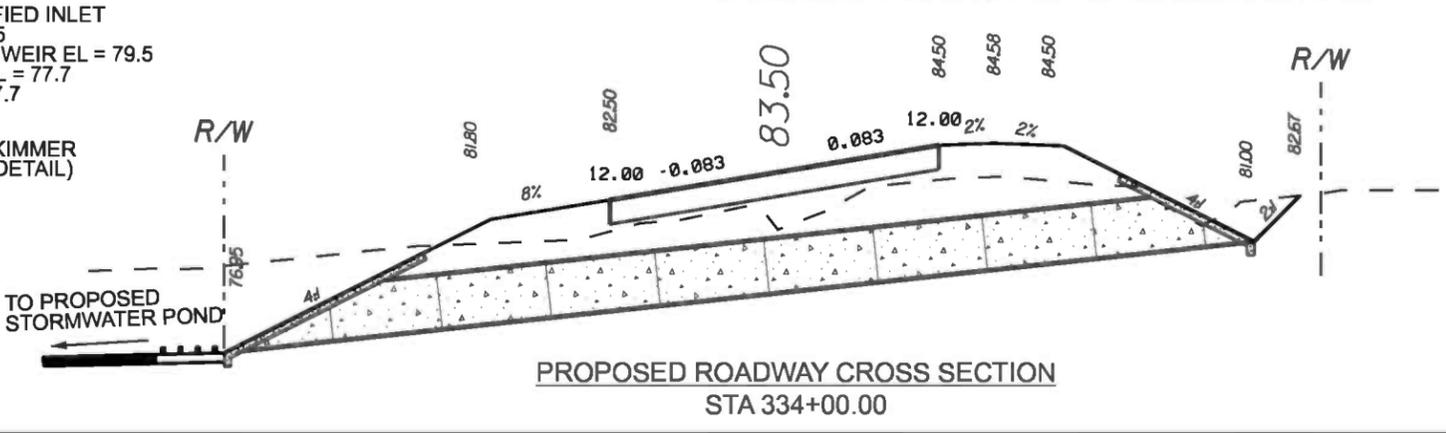


POND CROSS SECTION B NTS

- NOTES:
1. ALL CONSTRUCTION OUTSIDE OF ROADWAY CONSTRUCTION RIGHT OF WAY SHALL BE BID SEPARATELY AS STORMWATER
  2. FOR EXACT DIMENSIONS, AN ELECTRONIC FILE SHALL BE OBTAINED FROM DONALD F LEE & ASSOCIATES AND A LICENSED SURVEYOR SHALL BE RETAINED TO PERFORM CONSTRUCTION STAKE OUT



POND OUTFALL DETAIL C NTS



PROPOSED ROADWAY CROSS SECTION STA 334+00.00

REVISION NOTES	
DATE	DESCRIPTION
9-20-10	

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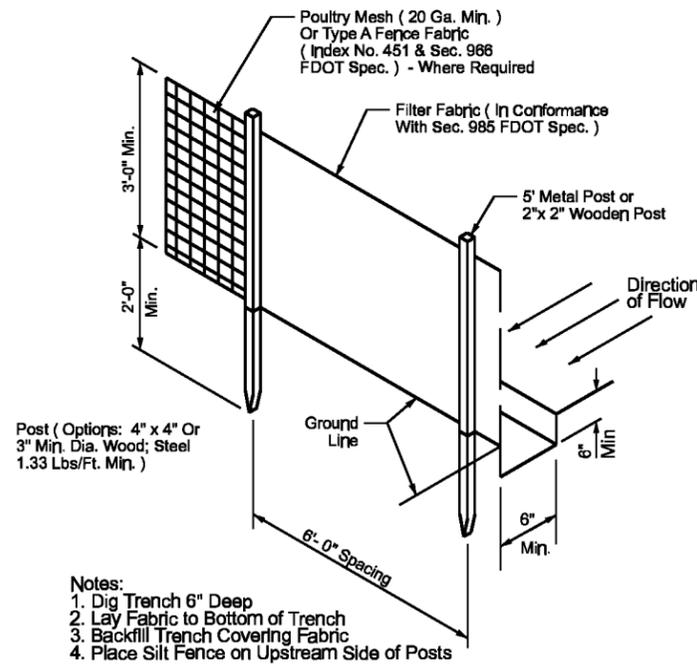
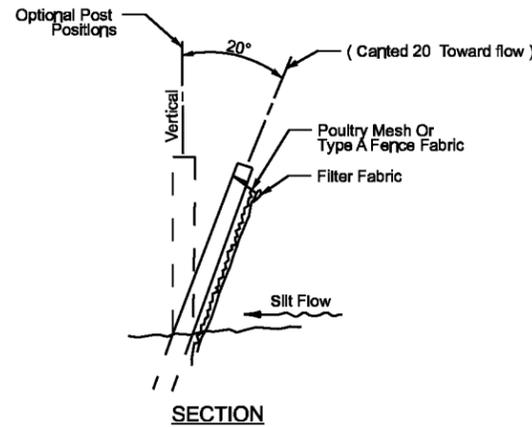
<b>CCBCC - OLD WIRE RD</b>	<b>STORMWATER PLAN - BASIN 334</b>
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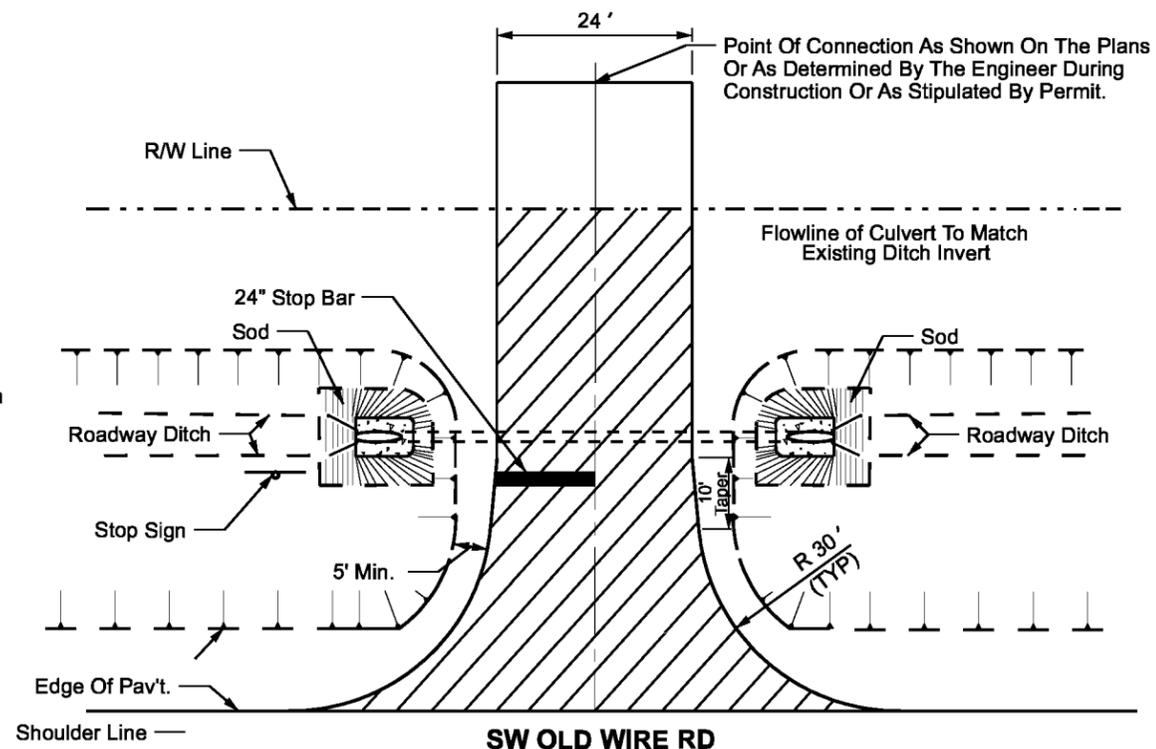
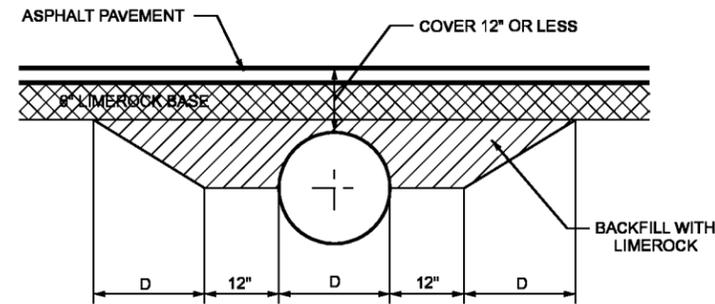
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PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>4</b>	

**EROSION CONTROL NOTES**

- Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
- Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed prior to any other construction.
- Erosion control measures shall be inspected weekly and after each rainfall and replaced as necessary.
- Sediment and erosion control measures shall not be removed until all construction is complete and until a permanent ground cover has been established.
- All open drainage swales shall be grassed and riprap shall be placed as required to control erosion.
- Silt fences shall be located on site to prevent sediment and erosion from leaving right-of-way limits.
- Additional erosion control devices shall be used as required.
- During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
- Contractor is responsible for the construction and maintenance of all erosion and sedimentation controls during proposed construction.
- A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
- Disturbed areas shall be stabilized with sodding and/or grassing and mulching. All side slopes steeper than 3:1 shall be adequately protected from erosion through the use of hay bales and/or sodding.
- 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 three (3) days.
- If the proposed erosion control plan does not work, the contractor should use the BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
- All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
- Loaded haul trucks shall be covered with tarps.
- Excess dirt shall be removed daily.
- Fertilizer shall be applied as specified in the plans and specifications.
- This project shall comply with all water quality standards. Permit required from SRWMD has been obtained.
- All pollution controls shall be maintained at all times.
- Type IV silt fence shall be placed to remove sedimentation. Silt fence shall be replaced after three (3) months or when sediment reaches one-half (1/2) the height of the bales.
- 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 (7) calendar days and within 24 hours of the end of a storm of 2 inches or greater.
- Sites that have been finally stabilized with sod or grassing shall be inspected at least once every week.



AS COMPARED TO TYPE III SILT FENCE, TYPE IV FENCE HAS GREATER STRENGTH AND HEIGHT WHICH REDUCES THE POSSIBILITY OF SEDIMENT AND WATER FROM OVERTOPPING THE FENCE. AS A RESULT, AVOID USING TYPE IV FENCE IN AREAS WHERE THE DETAINED WATER WOULD BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.



- FOR COUNTY ROAD INTERSECTIONS: SUGRADE, LIMEROCK AND ASPHALT COURSES TO MATCH ROADWAY (8 CONNECTIONS @ 160 SY EACH) SIDEDRAINS UNDER COUNTY GRADES SHALL BE 64 LF (18") BCCSP W/ MES
- FOR RESIDENTIAL DRIVEWAY CONNECTIONS: DRIVES SHALL CONSIST OF (6") LIMEROCK BASE AND 150 LBS/SY OF ASPHALTIC CONCRETE (SP 9.5) (45 DRIVEWAYS ESTIMATED @ 60 SY EACH), SIDEDRAINS UNDER PRIVATE DRIVEWAYS SHALL BE 40 LF (18") CMP W/ MES

DATE	REVISION NOTES
9-20-10	

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LIVE OAK FL, 32064  
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176 NW LAKE JEFFREY RD  
LAKE CITY, FL 32055  
Phone: (386) 719-8985  
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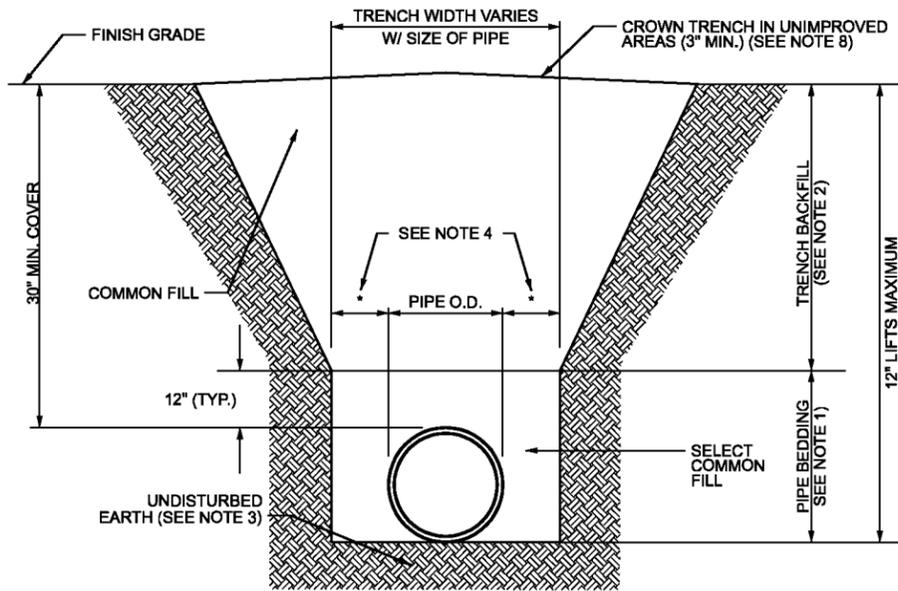
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**CCBCC - OLD WIRE RD**

**EROSION CONTROL NOTES & DETAILS**

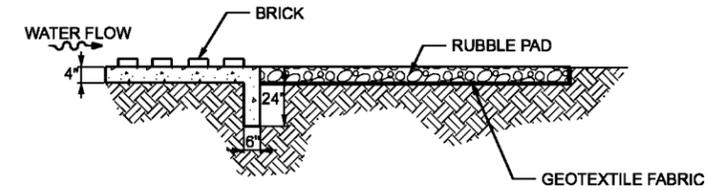
DRAWN BY <b>MC</b>	CHECKED BY <b>CW</b>
PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>5</b>	

DIMENSIONS AND QUANTITIES													
4d SLOPE	D	X	A	B	C	E	F	G	H	M	N	CONC. (sy)	CONC. (sy)
										SINGLE PIPE		SINGLE PIPE	SINGLE PIPE
15"	2'-7"	2.5'	3.09'	5.59'	3.0'	7'	1.23'	4'	4.33'	1.04'	0.44	22	
18"	2'-10"	2.5'	4.12'	6.62'	4.0'	8'	1.41'	4'	4.58'	1.04'	0.49	24	
24"	3'-5"	2.5'	6.18'	8.68'	6.0'	10'	1.73'	4'	5.08'	1.04'	0.65	27	

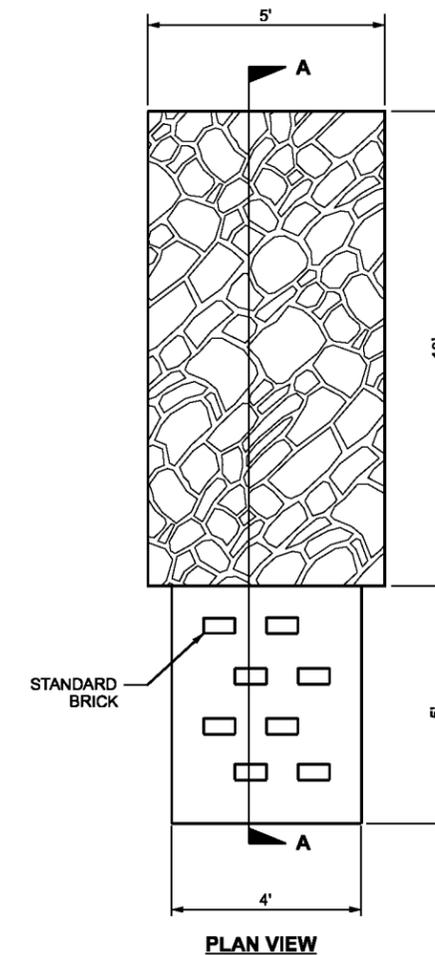


- NOTES:**
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
  2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
  3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
  4. (\*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
  5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
  6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
  7. PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
  8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROAD CONSTRUCTION SPECIFICATIONS.

**TRENCH AND BACKFILL DETAIL**  
NTS



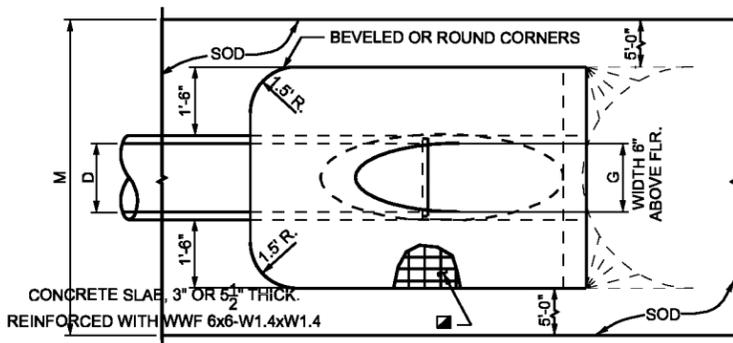
**SECTION A-A**



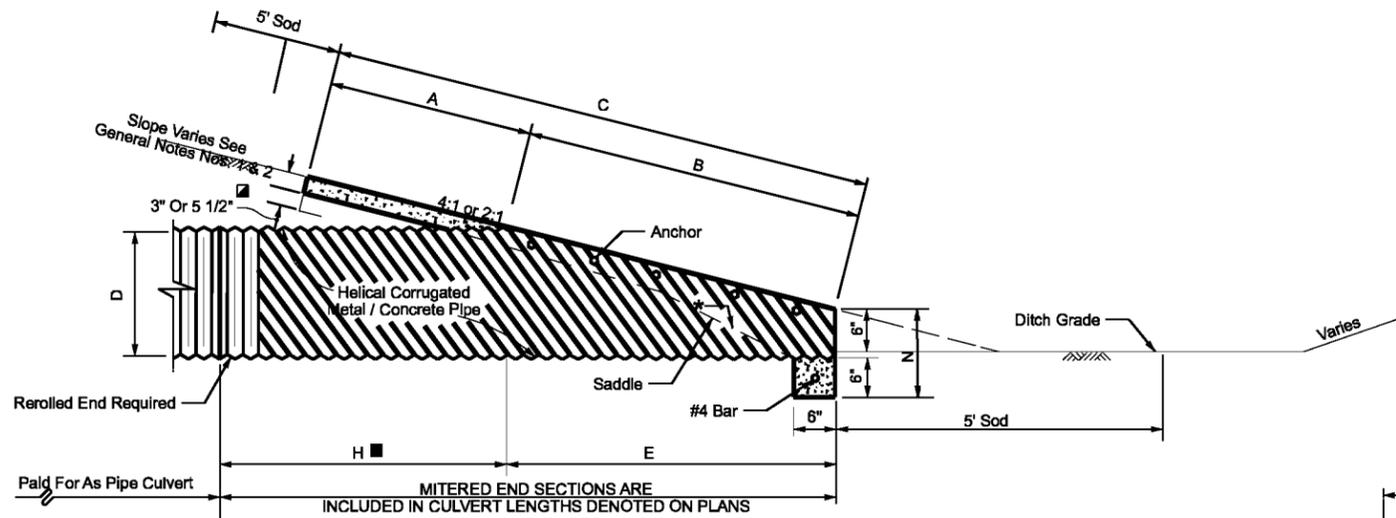
**PLAN VIEW**

**ENERGY DISSIPATION & RUBBLE PADS**

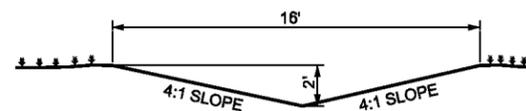
NTS



**TOP VIEW - SINGLE PIPE**



**SECTION**



**TYPICAL DRAINAGE SWALE DETAIL**

NTS

- Values shown for estimating pipe quantities and are for information only
- ▣ The reinforced concrete slab shall be constructed for all sizes of cross drain pipe and cast in place with Class I concrete. Slabs shall be 5 1/2" thick unless 3" thickness is called for in plans.
- \* SLOPE: 4d MITER: TO C.L. PIPE FOR PIPES 18" AND SMALLER. 2d FOR PIPES 24" AND LARGER. 2d MITER: TO C.L. PIPE FOR PIPES 18" AND SMALLER. 1d FOR PIPES 24" AND LARGER.

**MITERED END SECTION**

**SINGLE ROUND CORRUGATED METAL & CONCRETE PIPE**

NTS

**REVISION NOTES**

DATE 9-20-10

P.O. BOX 187  
130 W HOWARD ST  
LIVE OAK FL, 32064  
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**CCBCC - OLD WIRE RD**

**MISCELLANEOUS NOTES & DETAILS**

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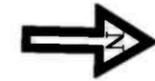
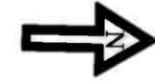
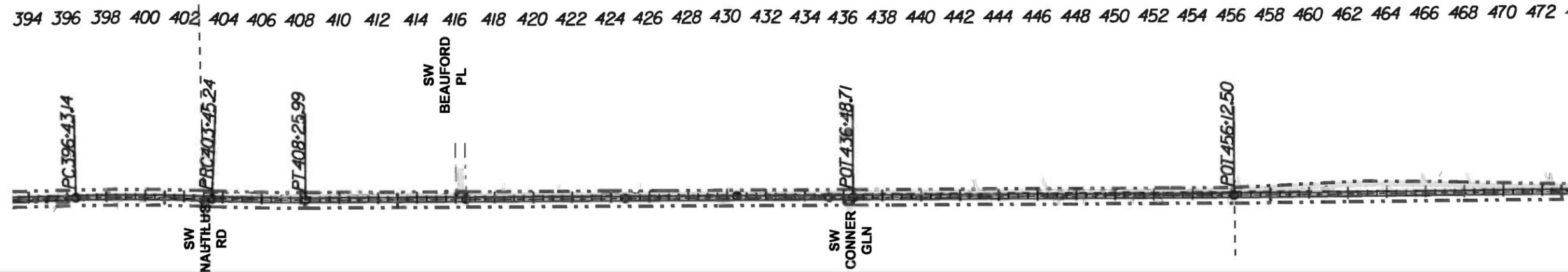
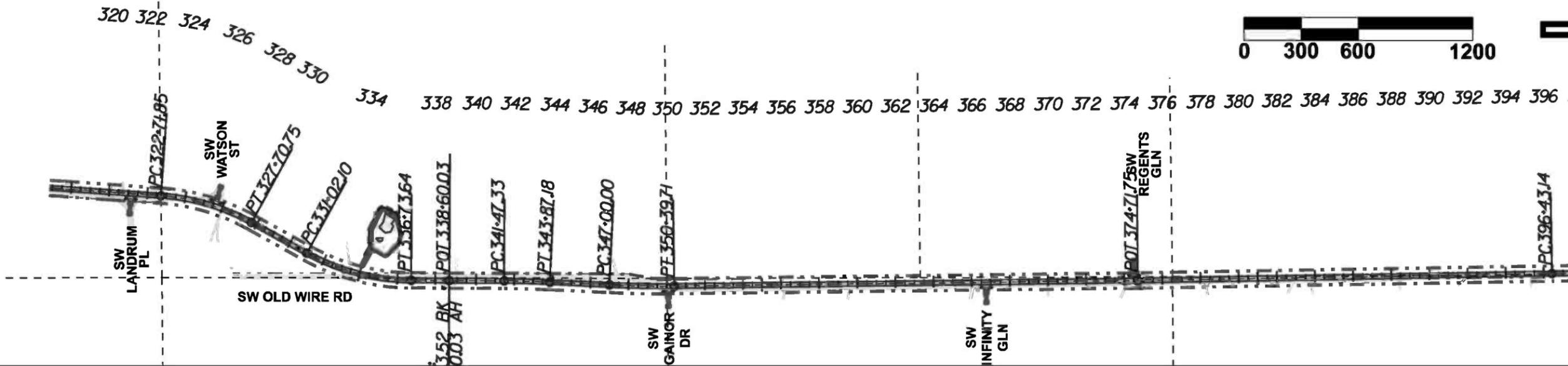
CHECKED BY CW

PROJECT NUMBER

**PF08-127**

SHEET

**6**



NOTE:  
 (6") WHITE EDGE OF PAVEMENT STRIPING TO BE PERFORMED THROUGHOUT THE ENTIRE PROJECT STA 320+00 TO 496+50

(6") YELLOW (TABULATION)

STA 320+00 TO 364+00 SOLID YELLOW (RT)	STA 320+00 TO 322+00 DASHED YELLOW (LT)
STA 364+00 TO 370+50 DASHED YELLOW (RT)	STA 322+00 TO 382+50 SOLID YELLOW (LT)
STA 370+50 TO 403+80 SOLID YELLOW (RT)	STA 382+50 TO 388+80 DASHED YELLOW (LT)
STA 403+80 TO 414+00 DASHED YELLOW (RT)	STA 388+80 TO 422+50 SOLID YELLOW (LT)
STA 414+00 TO 490+80 SOLID YELLOW (RT)	STA 422+50 TO 432+50 DASHED YELLOW (LT)
STA 491+60 TO 496+50 SOLID YELLOW (RT)	STA 432+50 TO 490+80 SOLID YELLOW (LT)
	STA 491+60 TO 496+50 SOLID YELLOW (LT)

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<b>CCBCC-OLD WIRE RD</b> <b>STRIPING PLAN</b>	
DRAWN BY: <b>MC</b>	CHECKED BY: <b>CW</b>
PROJECT NUMBER <b>PF08-127</b>	
SHEET <b>7</b>	