

**NOTICE TO CONTRACTORS
COLUMBIA COUNTY PROJECT NO. 2007-07
NW TURNER AVENUE**

Notice is hereby given that sealed bids will be received in the Columbia County Manager's office until 11:00 A.M. on May 13, 2009, for Columbia County Road Project 2007-07. 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 NW Turner Avenue from NW American Lane to NW Lamar Avenue a distance of 1.78 miles. Scope of work includes stormwater retention basin, inlets, storm sewer piping, cross drain pipe, reworking of existing roadway, concrete curb, asphaltic concrete leveling and surfacing, sodding, 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.

Signed,

Stephen E. Bailey, Chairman
Board of County Commissioners
Columbia County, Florida

Run Dates: April 22 & 29
Charge: BCC

**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.

**BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY**

**GENERAL REQUIREMENTS
PROJECT NUMBER 2007-07
N.W. TURNER AVE**

I. General Requirements

Project will consist of:

- a. Reworking the existing roadway with widening from NW American Lane to CSX right of way (\pm 7500 LF). The existing 20 feet (ft) width pavement will be reconstructed to provide a 22 ft wide paved surface.
- b. Resurfacing of existing pavement from CSX right of way to NW Lamar Place (\pm 1820 LF)
- c. Construction of a stormwater facility including a stormwater retention pond with outfall structure and stormwater conveyance system

The existing pavement consists of a limerock base and asphaltic concrete surface course. Pavement cores are included in the construction plans for information

II. Contract Time

The contract time will be 150 calendar days from the date of contract execution. Liquidated damages shall be \$500 per calendar day. No work will be allowed on Saturdays, Sundays, and/or designated county holidays.

III. Construction and Materials

All construction and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. Certification by an approved testing laboratory is required and is the responsibility of the contractor. Payment shall be as specified in the bid proposal.

IV. Bidding Requirements

See Attachment

VI. Typical Section

- a. NW American Lane to CSX right of way
STA 0+00 to STA 75+00

Existing 20ft wide pavement
Rework and widen to provide 22 ft pavement surface

- b. CSX right of way to NW Lamar Place
STA 75+60 to STA 98+30

Existing 20 ft wide pavement
Overlay existing pavement (no widening)

See Construction Plans for additional pavement section requirements

VII. Construction Sequence for NW American Lane to CSX Right of Way (Begin Project to STA 75+00)

1. Construct stormwater pond.
2. Construct stormwater conveyance system.
3. Scarify existing shoulders (± 5 ft).
4. Excavate trench a minimum of 8 inches (in.) in depth to provide for a base width of 11 ft – 3 in. from roadway centerline.
5. Remove all pavement in excess of 2 in. gradation from windrow.
6. Add ± 4 in. of limerock (loose material) across one lane of existing pavement, mix 12 in. minimum depth (milling machine required) and spread uniformly to provide 11 ft – 3 in. wide base section. Material sample will be required at 1000 ft intervals to establish proctor for density test. Shape and compact mixed materials to 98% density, and maintain 2% cross slope in section. Trenching, mixing, and compaction shall be limited to one day work capability.
7. Center delineation will be required at all non-working times.
8. Repeat process for adjacent lane.
9. Provide finish surface and prime.
10. Place asphaltic concrete (SP 12.5 at 150lbs/SY (average)) to provide 22 ft wide surface.
11. Paint centerline.
12. Construct concrete curb and gutter.
13. Provide required pavement for adjoining streets and driveways as directed by engineer.
14. Place required material and final dress shoulders. Place 42 in. wide sod strip along all pavement edges and sod all remaining disturbed areas.
15. Place asphaltic concrete surface course (SP 9.5 at 125lbs/SY (average)) to provide 22 ft wide surface. Virgin mix required.
16. Paint centerline, edge lines and stop bars at all paved intersections. Two applications required.

VIII. Maintenance of Traffic

1. One traffic lane may be closed from 8:30 am to 4:30 pm only.
2. Flagging will be required
3. All signage to be provided by contractor
4. Centerline delineation will be required during all non-working times
5. Maintenance of Traffic shall conform with Florida Department of Transportation Design Standards, Latest Edition (Standard Indexes 600-670)

VIII. Compensation

Payment shall be made monthly based on work completed and accepted with 10% retainage. See proposal form for method of payment.

**BID PROPOSAL
ROAD PROJECT NO. 2007-07
NW TURNER AVENUE
COLUMBIA COUNTY, FLORIDA**

THE UNDERSIGNED hereby propose to furnish all materials, labor and supervision for the construction of the subject project in 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. Stormwater Retention Basin	Lump Sum	1		
4. Inlets (Steel Grates Required)	Each	14		
5. Storm Sewer (18" HDPE)	Lin Ft	1,610		
6. Cross Drain Pipe (28' X 20" BCCS)	Lin Ft	40		
7. Concrete Mitered End Sections	Each	2		
8. Rework Existing Roadway	Lin Ft	7,500		
9. Limerock Material	Cu.Yd.	1,840		
10. Concrete Curb & Gutter	Lin Ft	2,480		
11. Concrete Ditch Pavement (3" Thick)	Sq.Yd.	100		
12. Asphaltic Concrete (S.P. Structural)	Ton	1,375		
13. Asphaltic Concrete (9.5 SP, Virgin Mix)	Ton	1,610		
14. Concrete Driveway Pavement (6" Thick)	Sq.Yd.	200		
15. Asphaltic Concrete for Driveways	Ton	200		
16. Shoulder Work	Lump Sum	1		
17. Sodding (Bermuda)	Sq.Yd.	10,000		
18. Traffic Stripping (6" Paint)	Lump Sum	1		
TOTAL AMOUNT OF BID				

- 2. Includes all elements required for the protection of workers and motorists.
See note on Sheet 2
- 4. Includes inlet at Sta. 0.39+
- 5. Includes clearing requirements.
- 8. Includes trenching, limerock placement, mixing (milling machine required), shaping and compacting, finishing and priming for placement of asphaltic concrete structural course.
- 9. Estimated at four inches (loose measure), may be increased or decreased as directed by the Engineer.
- 10. Final limits to be established by the Engineer following placement of asphaltic concrete structural course.
- 11. To be placed (if required) at locations designated by the Engineer.
- 13. Includes 40 tons estimated for spot leveling and 150 tons for intersections.
- 16. Includes scarifying and final dressing.
- 18. Includes centerline, edge lines and stop bars at all paved intersections.
Two applications required for final stripping. Centerline stripping required following each asphaltic concrete application.

ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS....

CERTIFICATION PAGE
BID NO. 2007-07
NW TURNER AVENUE

I certify that this bid meets or exceeds the County specifications and that the undersigned bidder declares that I have carefully examined the specifications, term and conditions of this bid and I am thoroughly familiar with its provisions. The undersigned bidder further declares that he/she has not divulged, discussed or compared his bid with any other bidders and has not colluded with any other bidders or parties to a bid whatsoever for any fraudulent purpose.

COMPANY: _____ DATE: _____

ADDRESS: _____

PHONE NO: _____ FAX NO: _____

SIGNATURE: _____

PRINT NAME/TITLE: _____

ATTEST: _____

COLUMBIA COUNTY PROJECT NUMBER: 2007-07

NW TURNER AVENUE

PROPOSED IMPROVEMENTS

SHEET INDEX

1	SITE PLAN/KEY SHEET
2	GENERAL NOTES
3	DRAINAGE AREA (SOUTH) SITE PLAN
4	DRAINAGE AREA (SOUTH) STORMWATER PLAN
5-6	DRAINAGE AREA (SOUTH) PLAN/PROFILE SHEETS
7	DRAINAGE AREA (NORTH) SITE PLAN
8	DRAINAGE AREA (NORTH) PLAN/PROFILE SHEET
9	MISCELLANEOUS DETAILS
10	EROSION CONTROL DETAILS
11	EXISTING ASPHALT PAVEMENT CORES

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	⊙
FOOT 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	⊙
		FLOW ARROW	⊙
		HANDICAP PARKING	⊙
		MITERED END	⊙
		SIGN	⊙



FOR:
 Columbia County Board of County Commissioners
 P.O. Drawer 1529
 Lake City, FL 32056
 Phone: (386)758-1005



STRUCTURAL/CIVIL ENGINEERS
 GTC Design Group

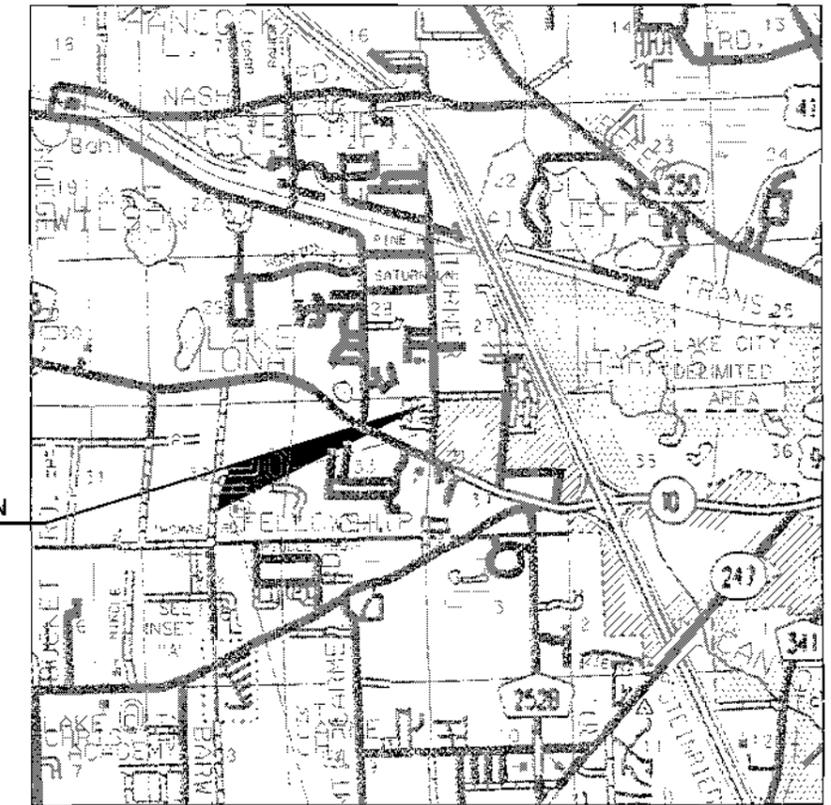
Live Oak
 P.O. Box 187
 130 West Howard Street
 Live Oak, FL 32064
 Phone: (386) 362-3678
 Fax: (386) 362-6133

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

ABBREVIATIONS

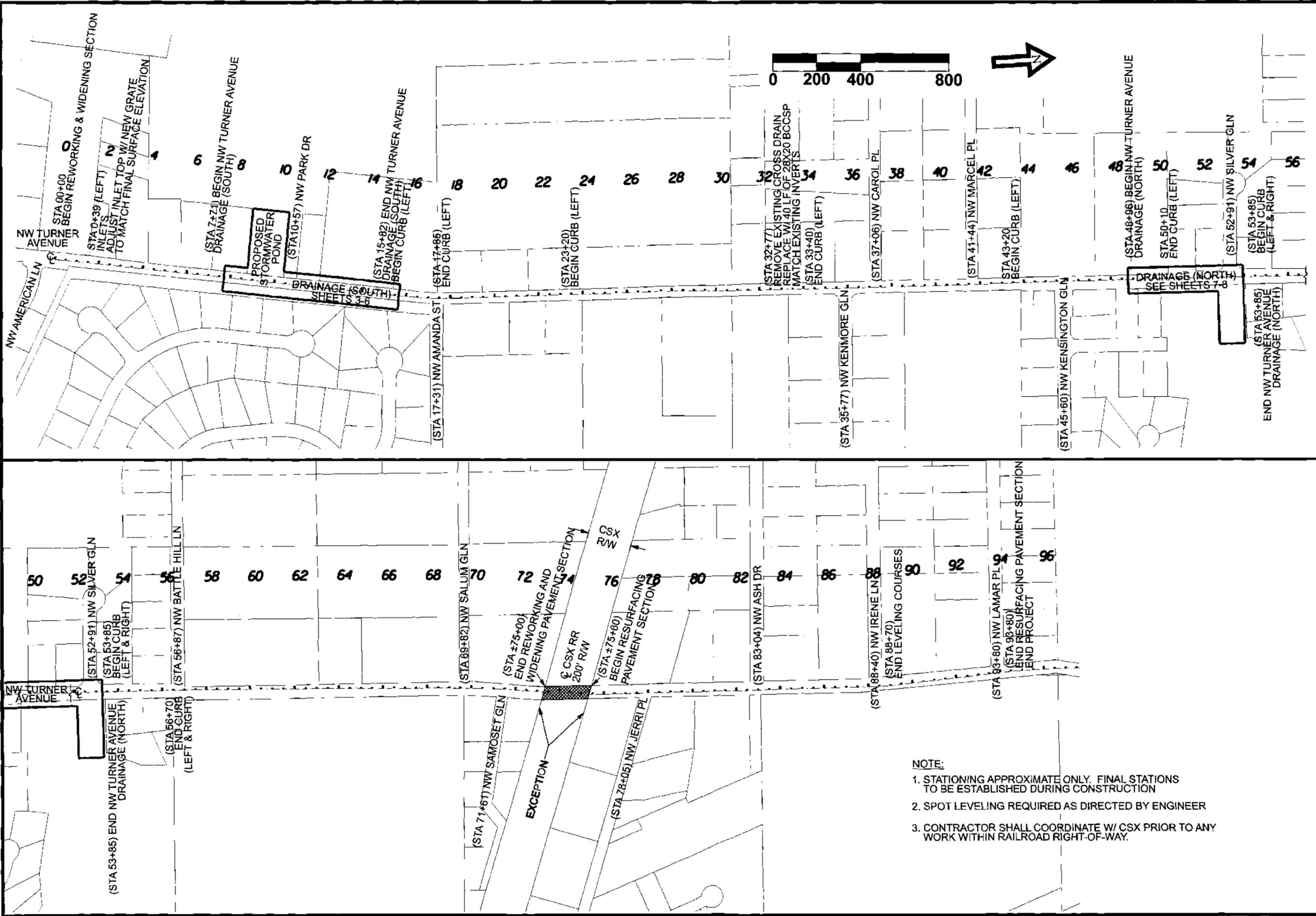
PL	PROPERTY LINE	IP	IRON PIPE
CL	CENTER LINE	MH	MANHOLE
BL	BASE LINE	G	GAS
SAN	SANITARY SEWER	UC	UNDERGROUND CABLE
ST	STORM SEWER	OC	OVERHEAD CABLE
E	ELECTRIC	W	WATER LINE
OHE	OVERHEAD ELECTRIC	HDPE	HIGH-DENSITY POLYETHYLENE
UG	UNDERGROUND ELECTRIC	RCP	REINFORCED CONCRETE PIPE-ROUND
OHT	OVERHEAD TELEPHONE	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		



PROJECT LOCATION

LOCATION MAP

SECTION 33, TOWNSHIP 3 SOUTH, RANGE 16 EAST
 COLUMBIA COUNTY, FLORIDA



- NOTE:**
1. STATIONING APPROXIMATE ONLY. FINAL STATIONS TO BE ESTABLISHED DURING CONSTRUCTION
 2. SPOT LEVELING REQUIRED AS DIRECTED BY ENGINEER
 3. CONTRACTOR SHALL COORDINATE W/ CSX PRIOR TO ANY WORK WITHIN RAILROAD RIGHT-OF-WAY.

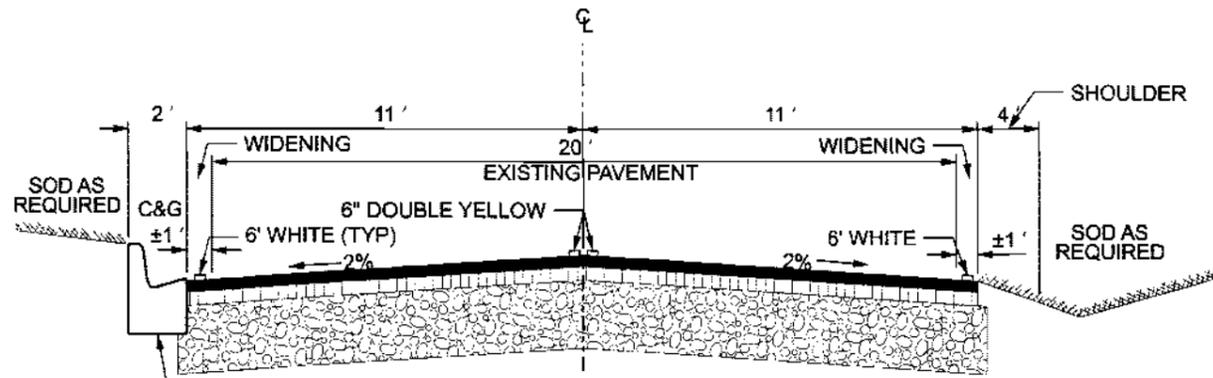
REVISION NOTES	
DATE	PER COLUMBIA COUNTY
8-20-08	PER COLUMBIA COUNTY
9-2-08	PER COLUMBIA COUNTY
10-24-08	PER SRWMD
4-9-09	PER COLUMBIA COUNTY

P.O. BOX 187
 130 W HOWARD ST
 LIVE OAK FL, 32064
 PHONE: (386) 362-3878
 FAX: (386) 362-6133
 176 NW LAKE JEFFREY RD
 LAKE CITY, FL 32055
 Phone: (386) 716-9985

NW TURNER AVENUE IMPROVEMENTS

SITE PLAN

DRAWN BY	CHECKED BY
MC	CM
PROJECT NUMBER	
PF06-223	
SHEET	
1	



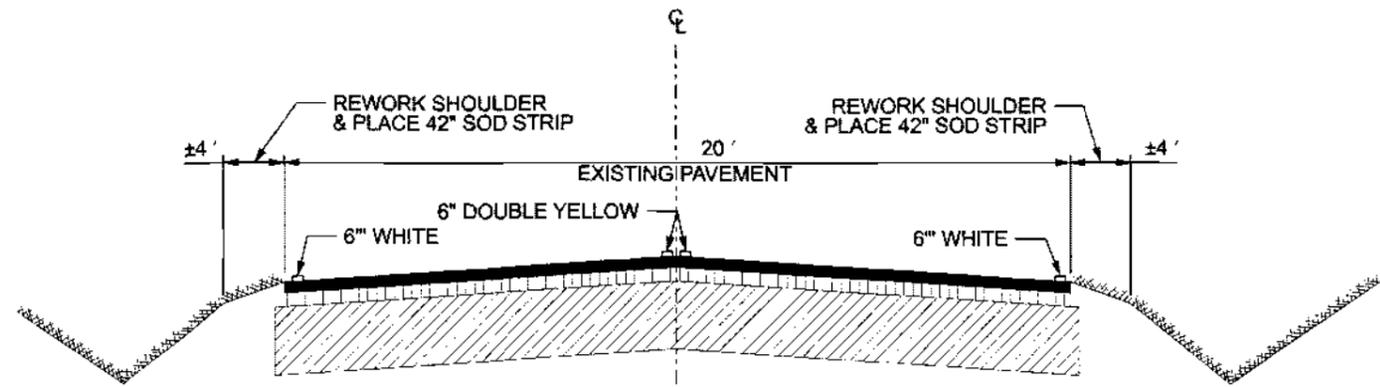
CONSTRUCT TYPE "F" CURB @ DESIGNATED LOCATIONS
FINAL LIMITS TO BE DESIGNATED BY ENGINEER.
ASPHALT CONCRETE STRUCTURAL COURSE TO BE PLACED
PRIOR TO CONSTRUCTING CURB AND GUTTER

**STA 0+00 TO STA 74+30
NW AMERICAN LANE TO CSX R/W
REWORK AND WIDENING TYPICAL SECTION
SEE GENERAL REQUIREMENTS FOR DETAILS**

-  MIXED MATERIALS - 12" MIN DEPTH (WIDTH 22'-6")
-  SP 12.5 @ 150 LBS/SY
-  SP 9.5 @ 125 LBS/SY - VIRGIN MIX

SOD ALL DISTURBED AREAS

ALL FINAL STRIPING SHALL BE APPLIED IN TWO APPLICATIONS



**STA 76+30 TO STA 73+80
CSX R/W TO NW LAMAR PLACE
RESURFACING TYPICAL SECTION**

-  EXISTING PAVEMENT TO REMAIN
-  SPOT LEVEL AREAS DESIGNATED BY ENGINEER
-  SP 9.5 @ 135 LBS/SY - VIRGIN MIX

ALL FINAL STRIPING SHALL BE APPLIED IN TWO APPLICATIONS

GENERAL NOTES

1. The contractor shall verify all existing conditions and dimensions at the job site to insure that all new work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of such differences immediately prior to proceeding with the work.
2. 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.
3. All construction proposed in these plans shall conform to the latest editions of the FDOT Design Standards.
4. Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Submit the survey to the engineer on reproducible 20 lb. vellum.
5. 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.
6. Any boundary and topographical information shown was obtained from a survey performed by Donald Lee and Associates, Inc., Florida Certificate No. 7042
7. 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.
8. Underground utility lines will require adjustment. Contractor will coordinate with utility company.
9. An energy dissipation and rubble pad shall be placed at the bottom of all collection flumes and collection pipe outlets.
10. Sod to be certified Bermuda sod. At a minimum, a 42" sod strip shall be layed along the edge of payment and curb/gutter. In addition, all disturbed shall be sodded.
11. The stormwater system is designed in accordance with SRWMD.
12. Contractor shall sod all slopes of 4' horizontal to 1' vertical and staple sod all slopes of 2' horizontal to 1' vertical or greater.
13. All stormwater pipes shall have a minimum cover of 6". Use Limerock backfill if pipe under pavement has less than 12" cover.
14. Contract Time - The contract time will be 150 calendar days from the date of contract execution. Liquidated damages shall be \$500.00 per calendar day. No work allowed on Saturdays, Sundays, and designated county holidays.
15. 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.
16. Maintenance of Traffic - **ONE TRAFFIC LANE MAY BE CLOSED FROM 8:30 AM - 4:30 PM (ONLY)** with flagging during working hours only. All construction signing necessary for the protection of workers and motorist to be provided by the contractor. Centerline delineation will be required @ all non-working times.
17. See additional notes in "General Requirements"

REVISION NOTE	FILE	DATE	BY
	PER COLUMBIA COUNTY	8-20-08	
	PER COLUMBIA COUNTY	9-2-08	
	PER SRWMD	10-24-08	
	PER COLUMBIA COUNTY	4-9-09	

P.O. BOX 187
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176 NW LAKE JEFFREY RD
LAKE CITY, FL 32055
Phone: (386) 749-9985

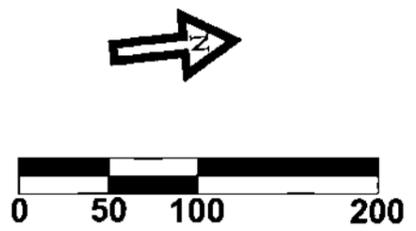
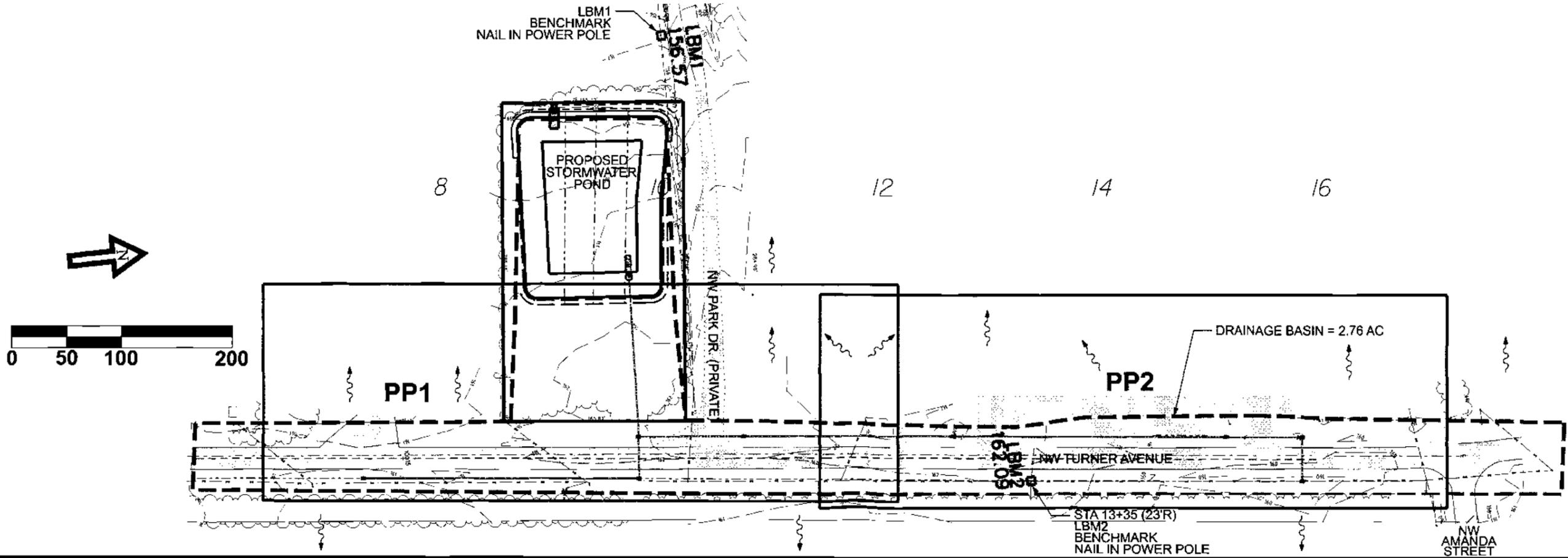
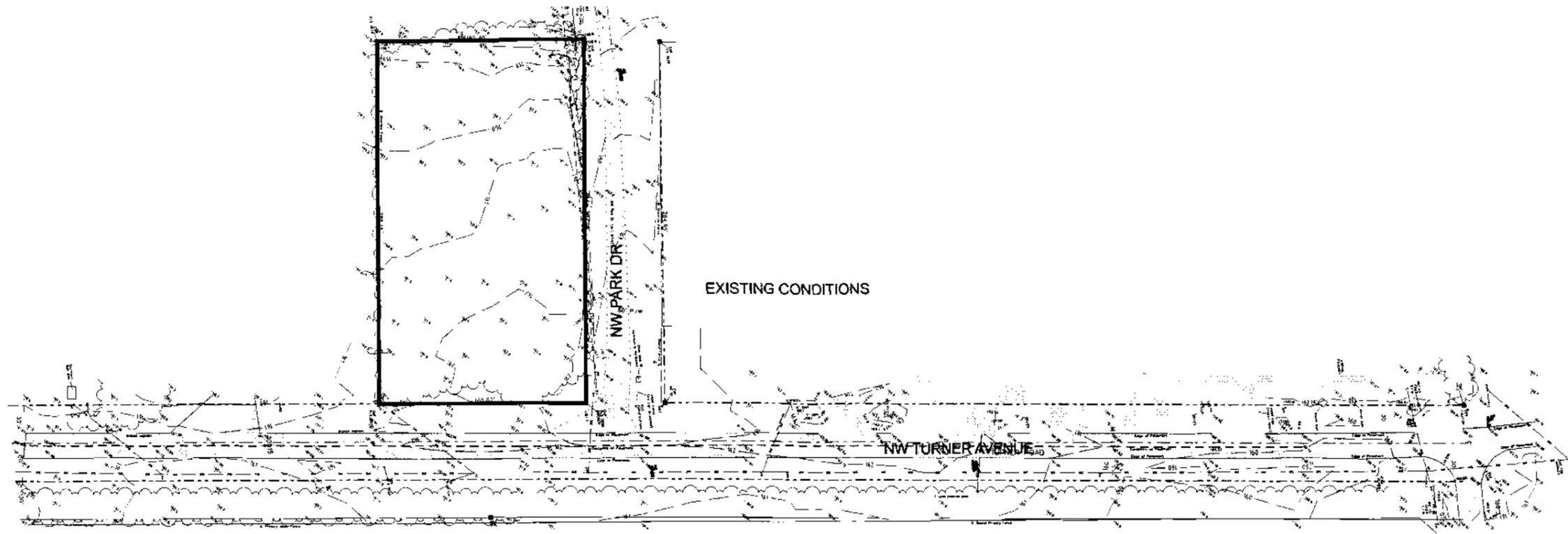
CG
STRUCTURAL
CIVIL ENGINEERS

**NW TURNER AVENUE
IMPROVEMENTS
GENERAL NOTES & TYPICAL SECTIONS**

DRAWN BY	CHECKED BY
MC	CW

PROJECT NUMBER
PF06-223

SHEET
2



REVISION	DATE	PER
	8-20-08	PER COLUMBIA COUNTY
	9-2-08	PER COLUMBIA COUNTY
	10-24-08	PER SRWMD
	4-08-08	PER COLUMBIA COUNTY

P.O. BOX 187
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PHONE: (386) 362-3678
FAX: (386) 362-6133

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Phone: (386) 719-9985

OG
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CIVIL ENGINEERS

**NW TURNER AVENUE
IMPROVEMENTS**

DRAINAGE SOUTH

SITE IN AN EXISTING CONDITIONS

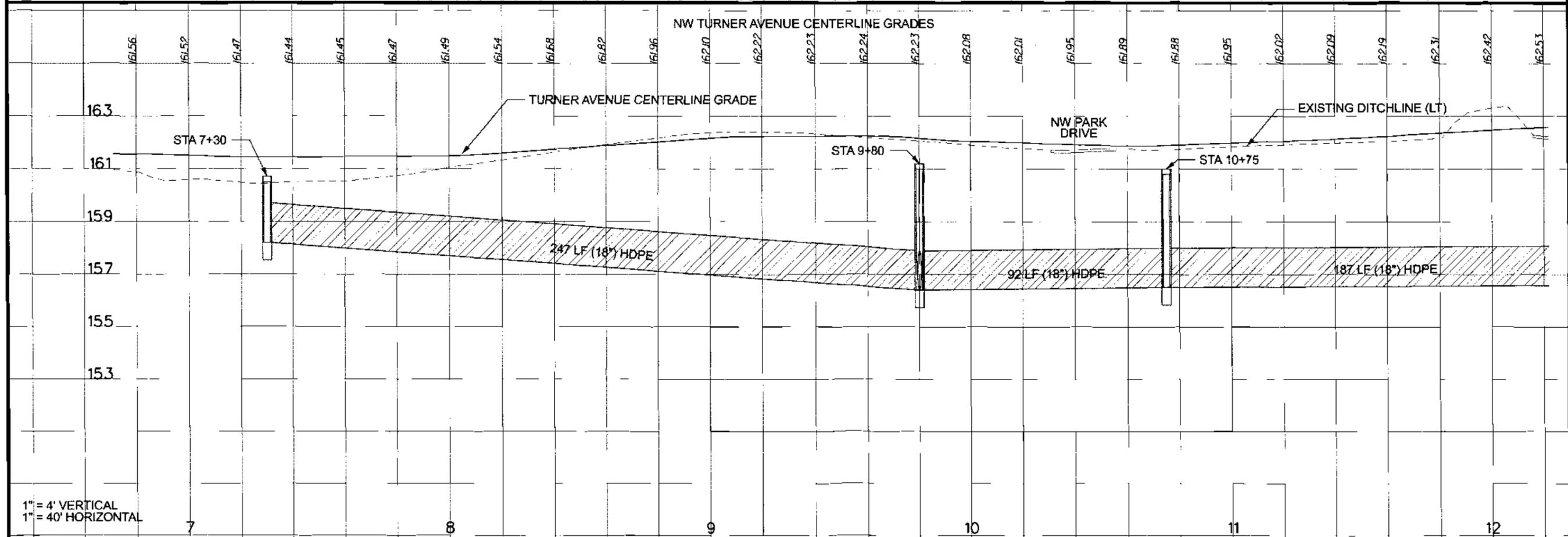
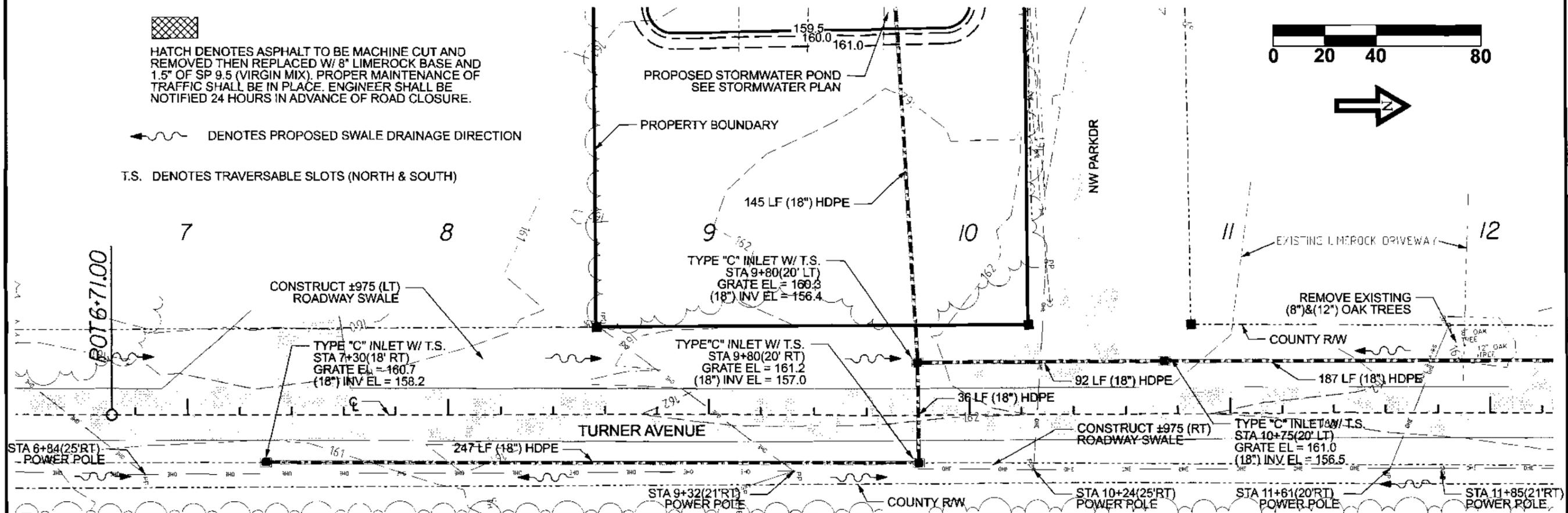
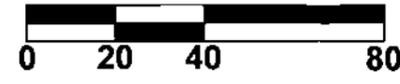
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MC	CW
PROJECT NUMBER	
PF06-223	
SHEET	
3	



HATCH DENOTES ASPHALT TO BE MACHINE CUT AND REMOVED THEN REPLACED W/ 8" LIMEROCK BASE AND 1.5" OF SP 9.5 (VIRGIN MIX). PROPER MAINTENANCE OF TRAFFIC SHALL BE IN PLACE. ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ROAD CLOSURE.

← DENOTES PROPOSED SWALE DRAINAGE DIRECTION

T.S. DENOTES TRAVERSABLE SLOTS (NORTH & SOUTH)



1" = 4' VERTICAL
1" = 40' HORIZONTAL

REVISION	DATE	BY	PER
8-20-08	8-20-08	MC	PER COLUMBIA COUNTY
9-2-08	9-2-08	MC	PER COLUMBIA COUNTY
10-24-08	10-24-08	MC	PER SRWMD
4-9-09	4-9-09	MC	PER COLUMBIA COUNTY

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**NW TURNER AVENUE
IMPROVEMENTS
DRAINAGE SOUTH**

DRAWN BY: MC
CHECKED BY: CW

PROJECT NUMBER

PF06-223

SHEET

5

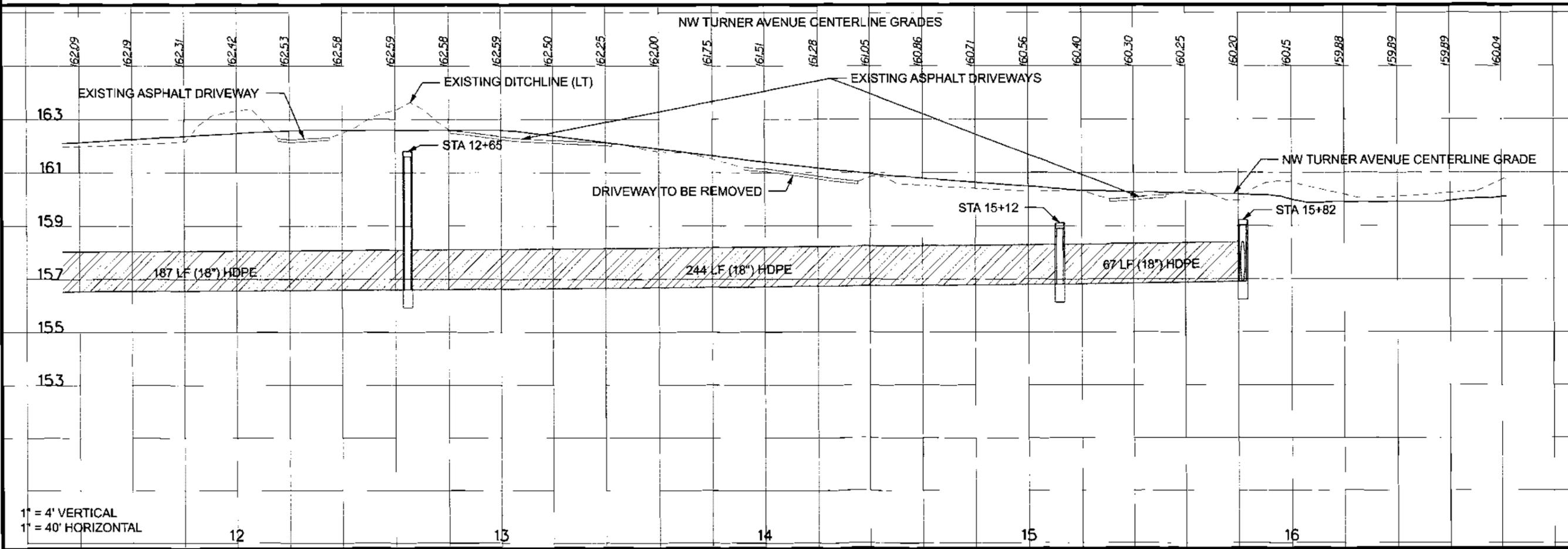
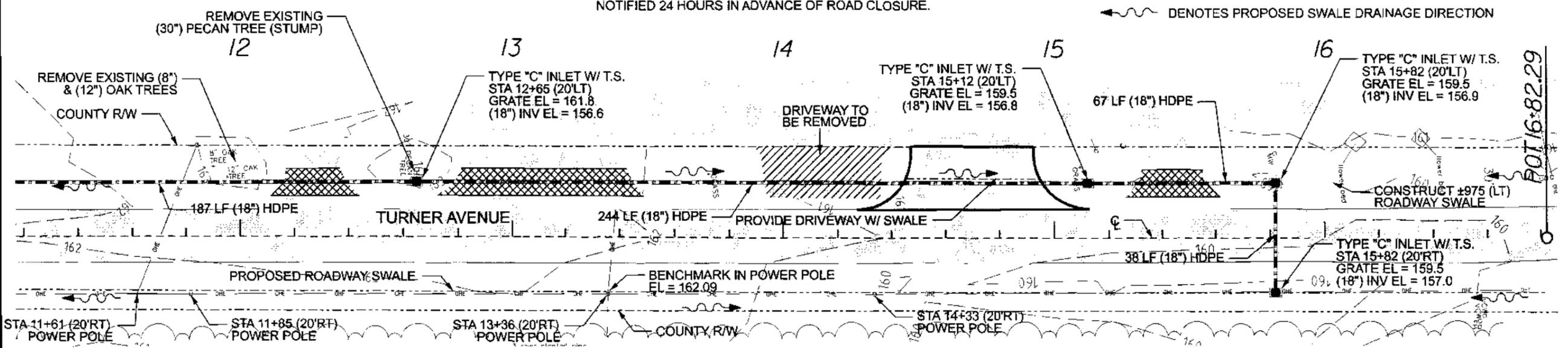


T.S. DENOTES TRAVERSABLE SLOTS NORTH & SOUTH

DENOTES ASPHALT TO BE REMOVED WITHIN COUNTY RIGHT-OF-WAY

HATCH DENOTES ASPHALT TO BE MACHINE CUT AND REMOVED THEN REPLACED W/ 8" LIMEROCK BASE AND 1.5" OF SP 9.5 (VIRGIN MIX). PROPER MAINTENANCE OF TRAFFIC SHALL BE IN PLACE. ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ROAD CLOSURE.

DENOTES PROPOSED SWALE DRAINAGE DIRECTION



1" = 4' VERTICAL
1" = 40' HORIZONTAL

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NW TURNER AVENUE IMPROVEMENTS

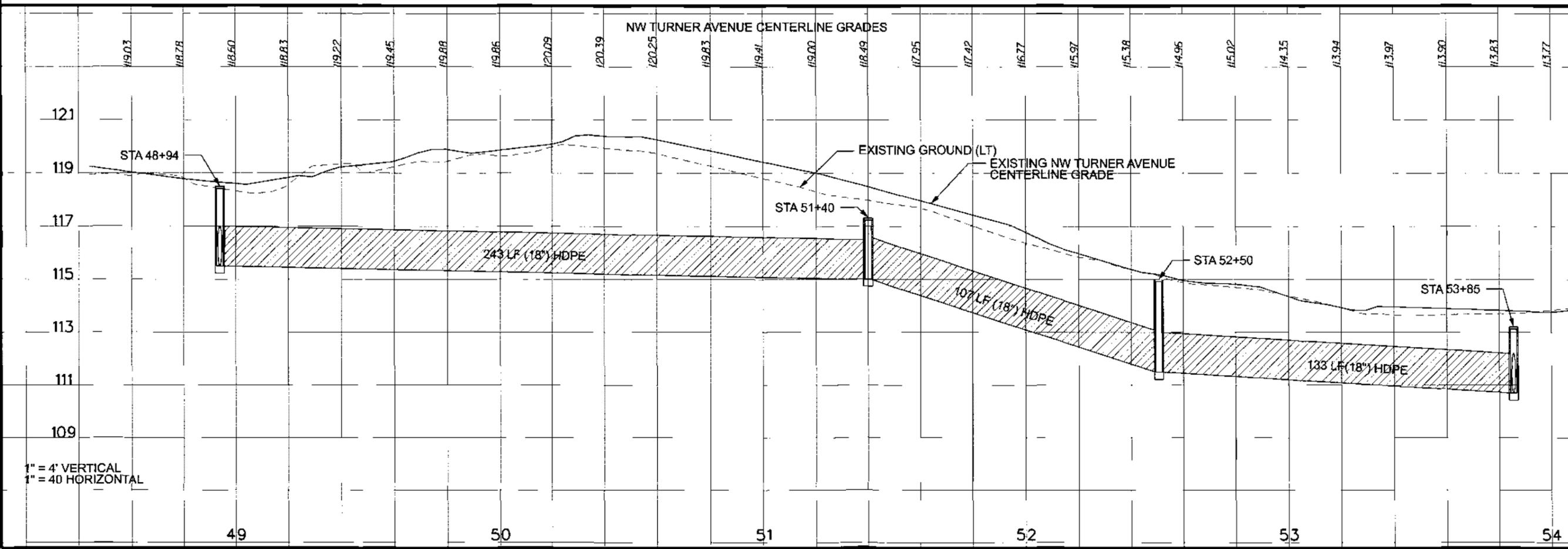
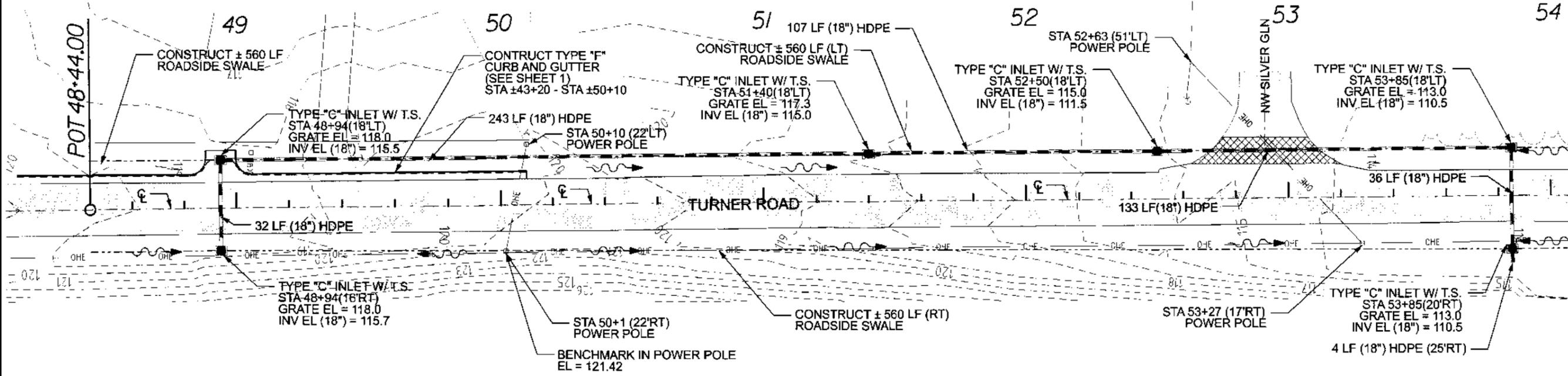
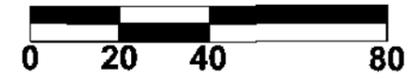
DRAINAGE SOUTH

DRAWN BY	CHECKED BY
MC	CW
PROJECT NUMBER	
PF06-223	
SHEET	
6	

T.S. DENOTES TRAVERSABLE SLOTS (NORTH & SOUTH)

~ DENOTES PROPOSED SWALE DRAINAGE DIRECTION

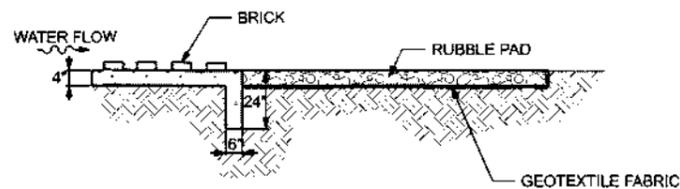
HATCH DENOTES ASPHALT TO BE MACHINE CUT AND REMOVED THEN REPLACED W/ 8" LIMEROCK BASE AND 1.5" OF SWP 9.5 (VIRGIN MIX). PROPER MAINTENANCE OF TRAFFIC SHALL BE IN PLACE. ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ROAD CLOSURE.



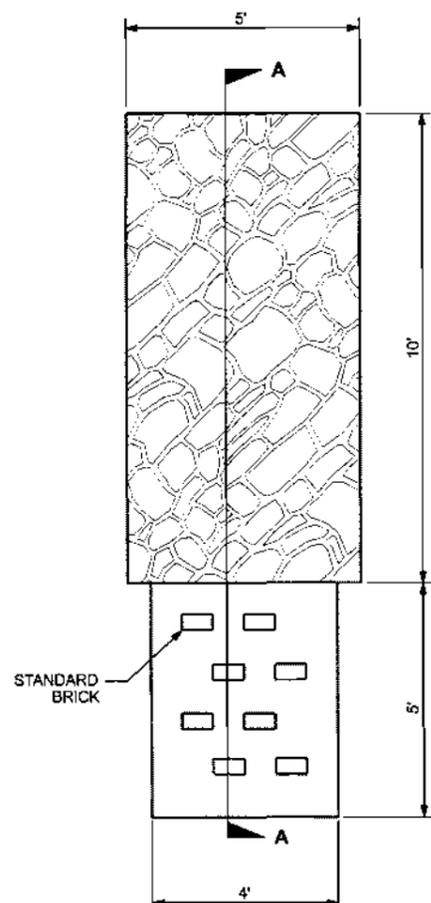
NOVEMBER 2009	PER COLUMBIA COUNTY	PER COLUMBIA COUNTY	PER COLUMBIA COUNTY	PER COLUMBIA COUNTY
8-20-08	8-20-08	9-2-08	10-24-08	4-9-09
130 W HOWARD ST LIVE OAK FL 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133	176 NW LAKE JEFFREY RD LAKE CITY, FL 32055 Phone: (386) 719-9985			

**NW TURNER AVENUE
IMPROVEMENTS
DRAINAGE NORTH**

DRAWN BY MC	CHECKED BY CW
PROJECT NUMBER PF06-223	
SHEET 8	

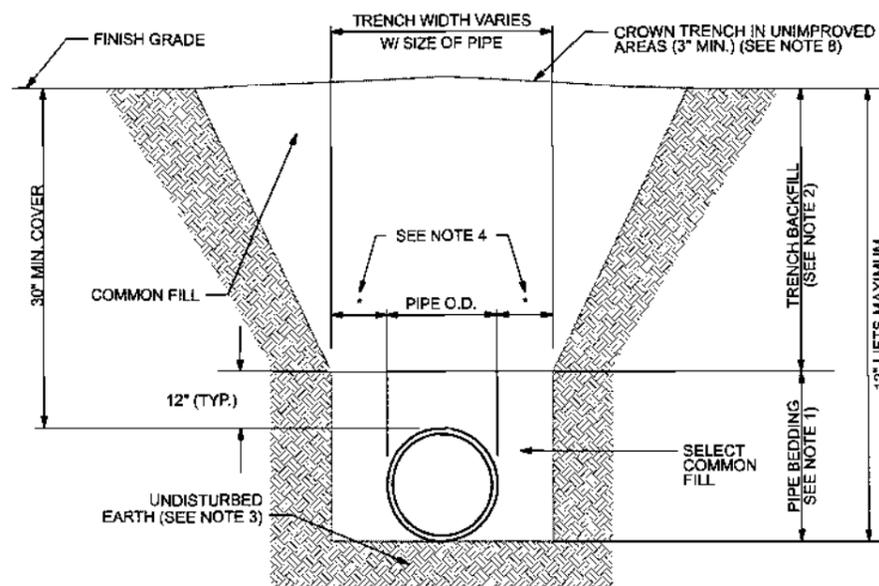


SECTION A-A



PLAN VIEW

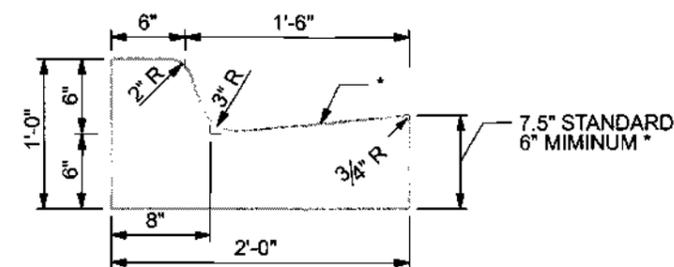
ENERGY DISSIPATION & RUBBLE PADS
NTS



NOTES:

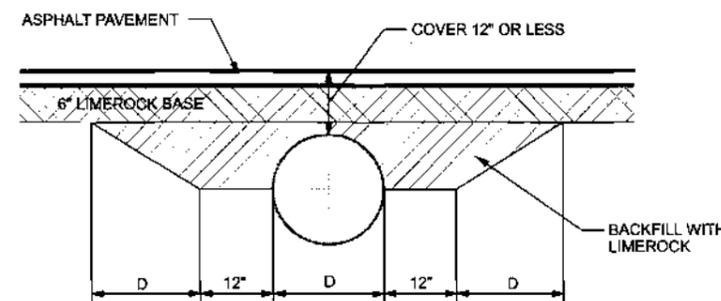
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
4. (*): 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



* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

TYPE "F" CURB & GUTTER
NTS



BACKFILL DETAIL FOR PIPES WITH LESS THAN 12" COVER
NTS

DATE	PER COLUMBIA COUNTY	PER COLUMBIA COUNTY	PER SRWMD	PER COLUMBIA COUNTY
8-20-08	9-2-08	10-24-08	4-9-09	
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 32055
STRUCTURAL/				CIVIL ENGINEERS
Phone: (386) 719-9985				



NW TURNER AVENUE
IMPROVEMENTS

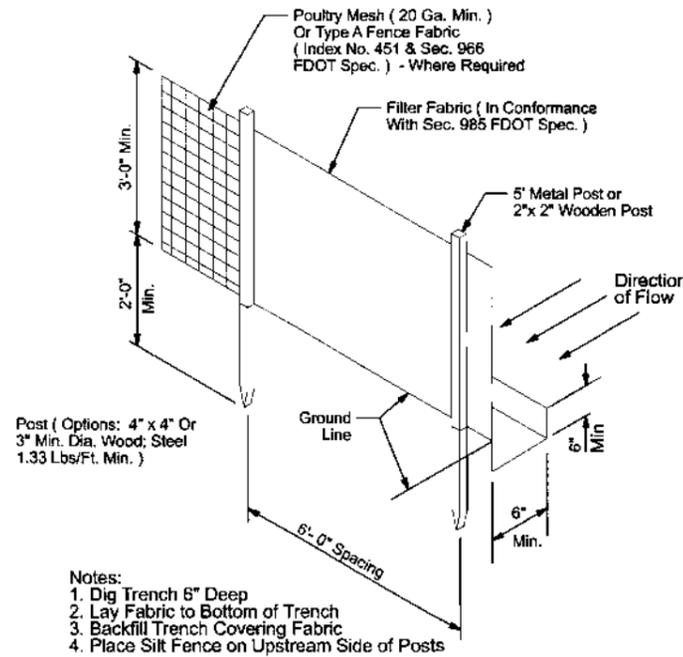
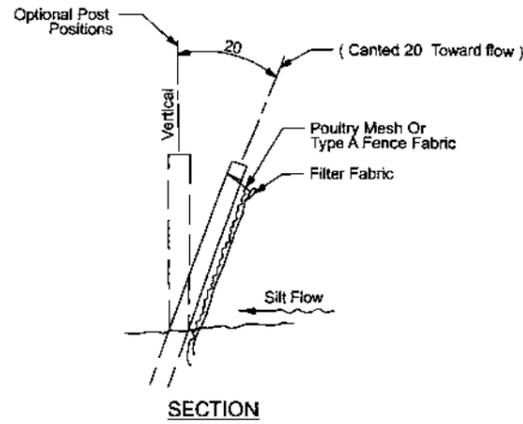
DRAWN BY	CHECKED BY
MC	CW

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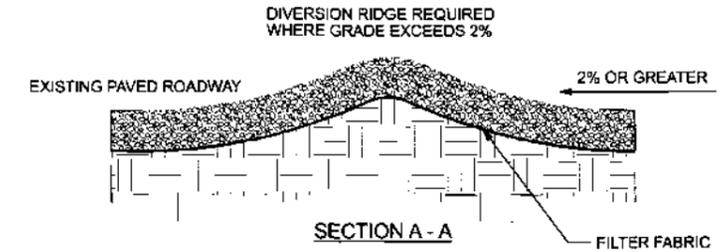
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EROSION CONTROL NOTES

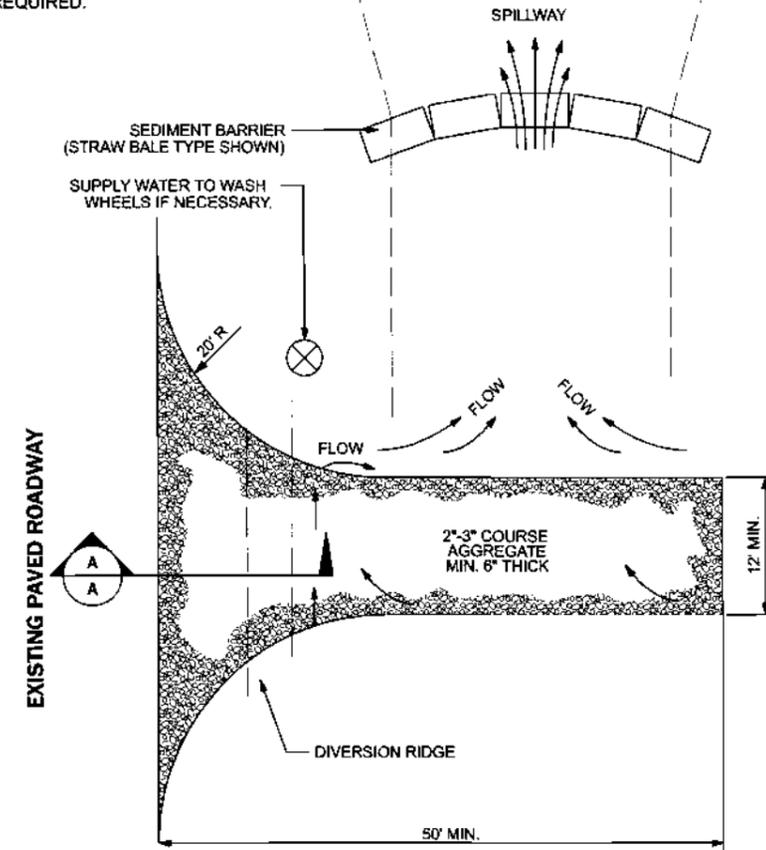
- Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
- Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed 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.
- Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
- 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.
- Staked silt fences shall be placed near all box culvert extensions in accordance with FDOT Standard Index 102.
- 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.
- Straw bales shall be placed to remove sediment. Straw bales 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.



NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.



- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS ONTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

REVISION NOTES	DATE	PER COLUMBIA COUNTY	PER COLUMBIA COUNTY	PER SRWMD	PER COLUMBIA COUNTY
	8-20-08				
	9-2-08				
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OG
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CIVIL ENGINEERS

**NW TURNER AVENUE
IMPROVEMENTS
EROSION CONTROL**

DRAWN BY **MC** CHECKED BY **CW**

PROJECT NUMBER

PF06-223

SHEET

10

Report of Asphalt Pavement Section Evaluation



Cal-Tech Testing, Inc.

• Engineering
• Geotechnical
• Environmental
LABORATORIES

P.O. Box 1825 • Lake City, FL 32055 Tel: (386) 755-3533 • Fax: (386) 752-6466
4754 Rowland Street • Jacksonville, FL 32224 Tel: (904) 381-8901 • Fax: (904) 381-8902

Project: Turner Road, Lake City, FL
 Client: Columbia County BOCC, P.O. Drawer 1529, Lake City, FL 32055
 Report To: Columbia County BOCC
 Client Contract No.: N/A Cal-Tech Job No.: 09-00120-01
 Date: 3/20/2009 Inspectors: Chad Day and Terry Hygema

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
1	0+50	R	5	10	8 1/2	2	2		SB 4 1/2	
2	5+78	L	5 1/2	10	5 3/4	3/4			SB 5	
3	11+00	R	4	10	6 1/2	1 3/4			SB 4 3/4	

Remarks: LR = Limerock, SB = Sand Bituminous

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer 3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
4	16+34	L	3	10	4 3/4	1 1/4			SB 3 1/2	
5	21+82	R	7	10	3 3/4	1 3/4			SB 2	
6	26+80	L	7 1/2	10	7	1 3/4			SB 5 1/4	

Remarks: LR = Limerock, SB = Sand Bituminous

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer 3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
7	32+18	R	2	10	6 3/4	1 1/4			SB 5 1/2	
8	37+48	L	5	10	5 1/4	1 1/2			SB 3 3/4	
9	42+74	R	4	10	6 3/4	1/4			SB 6 1/2	

Remarks: LR = Limerock, SB = Sand Bituminous

Core No.	Station	Lane	Offset CL (Ft.)	Pvmnt. Wdth. (Ft.)	Tot. Asph. Thick. (In.)	Layer 1 Thick. (In.)	Layer 2 Thick. (In.)	Layer 3 Thick. (In.)	Base Type/ Thick. (In.)	Stabilized Depth (In.)
10	48+02	L	3	10	5 1/2	1 3/4			SB 3 3/4	
11	53+30	R	6	10	6 1/2	1 3/4			SB 4 3/4	
12	58+58	L	3 1/2	10	1 1/2	0			LR 8	

Remarks: LR = Limerock, SB = Sand Bituminous

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13	63+86	R	4 1/2	10	1	0			LR 6 1/4	
14	69+14	L	5	10	1/4	0			LR 9	

Remarks: LR = Limerock, SB = Sand Bituminous STATIONS REFERENCED FROM NW AMERICAN LANE

Stations referenced from:

Respectfully Submitted
CAL-TECH TESTING, INC.

Linda M. Creamer
President - CEO

Reviewed By:

Licensed Florida No.: 57842
Date: **COPY**

REVISION NO. 111
 PER COLUMBIA COUNTY
 PER COLUMBIA COUNTY
 PER SRWMD
 PER COLUMBIA COUNTY

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CG
 STRUCTURAL/
 CIVIL ENGINEERS

**NW TURNER AVENUE
 IMPROVEMENTS
 EXISTING ASPHALT
 PAVEMENT CORRECT**

DRAWN BY: MC CHECKED BY: CW

PROJECT NUMBER
PF06-223

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