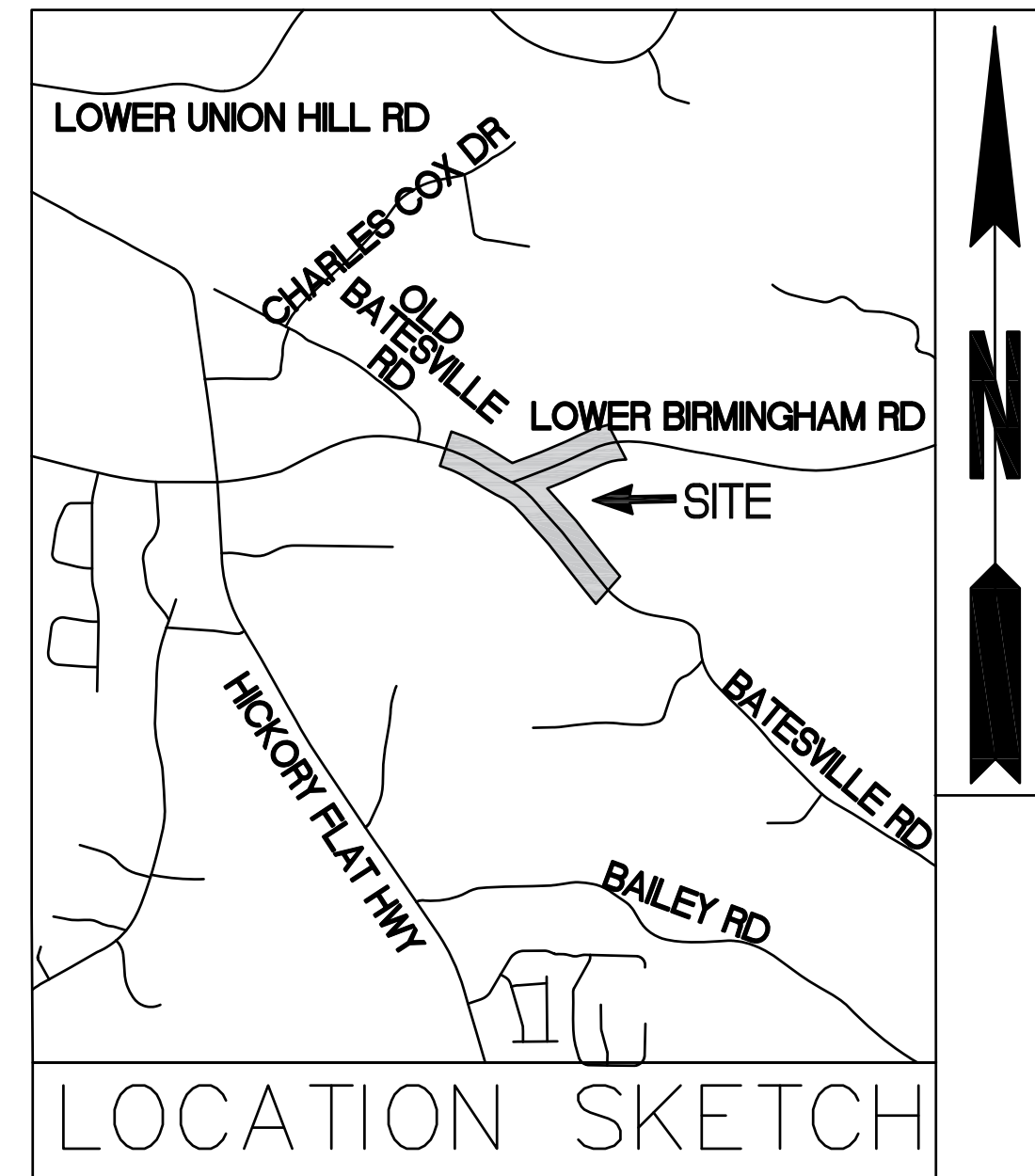


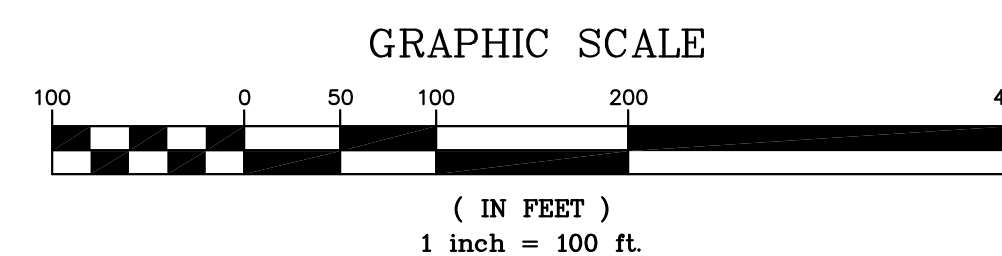
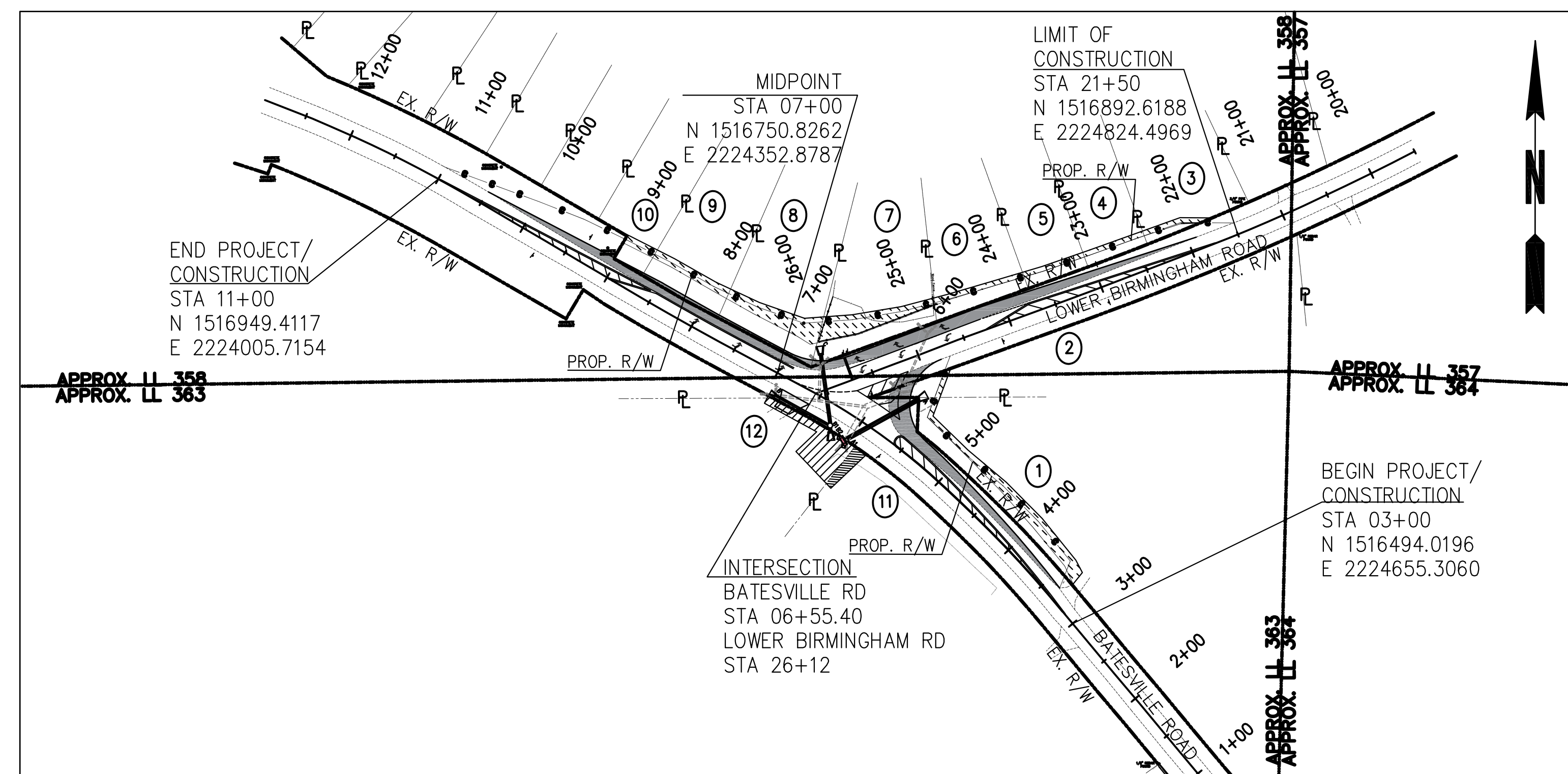
CHEROKEE COUNTY DEPARTMENT OF TRANSPORTATION

PROPOSED INTERSECTION IMPROVEMENTS FOR BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD



BATESVILLE RD
GPS Location of Project Beginning:
34.17 N, 84.40 W
STA 03+00
GPS Location of Project Ending:
34.17 N, 84.41 W
STA 11+00

LOWER BIRMINGHAM RD
GPS Location of Project Beginning:
34.17 N, 84.40 W
STA 21+50
GPS Location of Project Ending:
34.17 N, 84.41 W
STA 26+12



NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO ARTICLES 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND ANY MODIFICATIONS THEREOF, WHICH WILL BE A PART OF THIS CONTRACT.

ALL WORK TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION OF GEORGIA, CURRENT EDITION, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

DESIGN DATA:
BATESVILLE RD:
SPEED DESIGN: 35 MPH
PROPOSED SPEED: 35 MPH
POSTED SPEED: 35 MPH
LOWER BIRMINGHAM RD:
SPEED DESIGN: 35 MPH
PROPOSED SPEED: 35 MPH
POSTED SPEED: 35 MPH

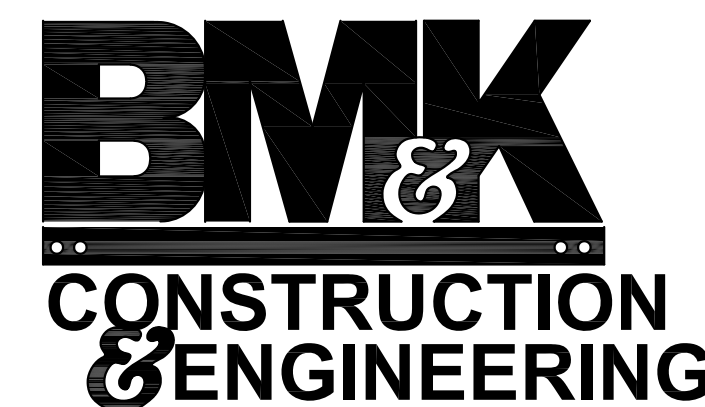
PREPARED BY: DON CLERICI

THIS PROJECT IS LOCATED 100% IN CHEROKEE COUNTY AND CONGRESSIONAL DISTRICT 11.

PROJECT DESIGNATION: LOCAL
FUNCTIONAL CLASSIFICATION: LOCAL
ROADWAY CLASSIFICATION: BATESVILLE ROAD - MINOR ARTERIAL
LOWER BIRMINGHAM ROAD - MINOR ARTERIAL

THIS PROJECT WAS PREPARED USING THE FOLLOWING HORIZONTAL AND VERTICAL DATUM:
HORIZONTAL - NAD83
VERTICAL - NAVD88

LENGTH OF PROJECT:	MILES
NET LENGTH OF ROADWAY	0.24
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.24
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.24



PO BOX 878
BRASSETT, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED

REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

COVER SHEET

BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
1-01

GENERAL NOTES:
 1. THE CONTRACTOR SHALL ADHERE TO THE "CALL BEFORE YOU DIG" LAW BY CALLING 811 BEFORE BEGINNING CONSTRUCTION.

2. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED IN KIND. I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVES OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS SHOWN OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/ OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:

- ASPHALTIC DRIVES
 - RESIDENTIAL - 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
 - 6" GRADED AGGREGATE BASE
 - COMMERCIAL - 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
 - 2" ASPH. CONC. 19 MM SUPERPAVE, 220 LB/SY
 - 8" GRADED AGGREGATE BASE
- CONCRETE DRIVES
 - RESIDENTIAL - 6" CONCRETE VALLEY GUTTER
 - 6" CONCRETE DRIVEWAY
 - COMMERCIAL - 8" CONCRETE VALLEY GUTTER
 - 8" CONCRETE DRIVEWAY
- EARTH DRIVES - 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
- 6" GRADED AGGREGATE BASE

3. THE CONTRACTOR SHALL REMOVE ALL EXISTING DRAINAGE STRUCTURES AND PIPES IN CONFLICT WITH PROPOSED CONSTRUCTION. THE REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

4. ALL PROPOSED STORM DRAIN PIPES SHALL BE AS NOTED ON THE PLANS.

GENERAL NOTES FOR SIGNING AND PAVEMENT MARKING
 1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISION.

2. SIGN ERECTION LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM CHEROKEE COUNTY DEPARTMENT OF TRANSPORTATION.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT THE HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
4. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTION SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
5. TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
6. TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1), WARNING SIGNS AND OVERHEAD SIGNS.
7. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.
8. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
9. NATIONAL PLAZA SIGN NOT TO BE REMOVED FROM PROJECT. CAN BE RELOCATED WITHIN COUNTY ROW TO PERFORM WORK. WHEN WORK IS COMPLETE, RESET SIGN IN THE PRE-CONSTRUCTION LOCATION. IF MODIFICATION TO POSTS OR RELOCATION OF THE SIGN IS NEEDED, CONTACT THE NATIONAL PLAZA SIGN COMPANY 888-982-1234.

UTILITY OWNER	SERVICE	CONTACT NUMBERS
SAWNEE EMC	POWER	(678)455-1393
CHEROKEE COUNTY WSA	WATER AND SEWER	(770)479-1813
AGL CHEROKEE	GAS	(404)584-3238
WINDSTREAM	CABLE	(770)479-1118
COMCAST CABLE	CABLE	(770)351-8041

CONTRACTOR TO ENSURE NO DROPOFF IS GREATER THAN 1 1/2" AFTER FINAL PAVING. COST FOR RESHAPING OF THE SHOULDER TO BE INCLUDED IN GRADING COMPLETE.



Know what's below.
 Call before you dig.
 Dial 811
 Or Call 800-282-7411

NOTES:
 UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTORS/INSTALLERS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS/INSTALLERS EXPENSE.

EXISTING POLE ATTACHMENT DATA IS APPROXIMATE AND IS PROVIDED AS A GENERAL GUIDELINE TO THE CONTRACTOR/INSTALLER TO AID IN IDENTIFYING POTENTIAL INSTALLATION CONFLICTS, THE CONTRACTOR/INSTALLER SHALL PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES.

PROJECT GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.
2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION.
3. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
5. PERFORATED UNDERDRAIN SHALL BE PLACED IN AREAS WHERE WET CONDITIONS EXIST IN THE SUBGRADE AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
7. IN AREAS WHERE NEW PAVEMENT OR PAVEMENT WIDENING IS REQUIRED, SAW CUT OF EXISTING PAVEMENT WILL BE REQUIRED IN ACCORDANCE WITH SECTION 411 OF THE GEORGIA STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".
8. PRICE BID FOR TRAFFIC CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNAGE, PAVEMENT MARKINGS, BARRICADES, ETC., REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, OR AS DIRECTED BY THE ENGINEER.
9. NO SEPARATE PAYMENT WILL BE MADE FOR PAVEMENT, GRADING OR ANY OTHER OPERATIONS REQUIRED FOR DETOUR CONSTRUCTION AND SHALL BE INCLUDED IN PRICE BID FOR "TRAFFIC CONTROL".
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING, RELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MAILBOX TO AN AREA OUTSIDE CONSTRUCTION LIMITS DURING THE LIFE OF THE CONTRACT. THE LOCATION OF THE BOX SHOULD BE CONVENIENT TO BOTH THE MAIL CARRIER AND THE PATRON, YET NOT INTERFERE WITH PROPOSED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONFER WITH THE POST OFFICE SERVING THE AREA. ALL COSTS INCURRED FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

11. AN N.O.I. (NOTICE OF INTENT) IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 1.0 ACRES.

12. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE, EXCEPT WHEN SAWING IN CONCRETE PAVEMENT.

13. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED, SUFFICIENT TO RETARD SUBJECT TO DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.

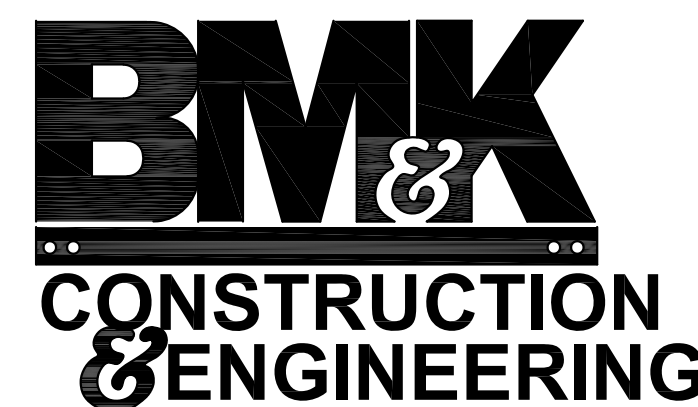
14. TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED OR GROWING ON ADJACENT LAWNS, I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA, ETC.. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.

15. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL, PLACEMENT AND REMOVAL SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 318 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHER RUN STONE AS DESCRIBED IN SECTION 318.2. THE CONTRACTOR WILL HAVE THE USE OF THE FOLLOWING MATERIALS:
 A. GRADED AGGREGATE, SECTION 815-2-01.
 B. COARSE AGGREGATE, SIZE 467 SECTION 800-2-01.
 C. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.
 D. CRUSHED STONE, SECTION 806.2.

16. EACH CONTRACTOR WORKING ON THE PROJECT SHALL CONDUCT HIS WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.

17. REDUCED SPEED WORK ZONE TO BE IMPLEMENTED ON BATESVILLE ROAD. COST TO BE INCLUDED IN TRAFFIC CONTROL.

18. NATIONAL PLAZA SIGN IS NOT TO BE REMOVED FROM PROJECT. IF RELOCATION IS NECESSARY, THE SIGN MUST BE RELOCATED TO ANOTHER LOCATION, WITHIN COUNTY ROW, THE SAME WORKING DAY. AFTER CONSTRUCTION, RESET THE SIGN IN THE PRE-CONSTRUCTION LOCATION. CONTACT INFORMATION FOR NATIONAL PLAZA SIGN COMPANY 888-982-1234.



PO BOX 878
 BRASSETT, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

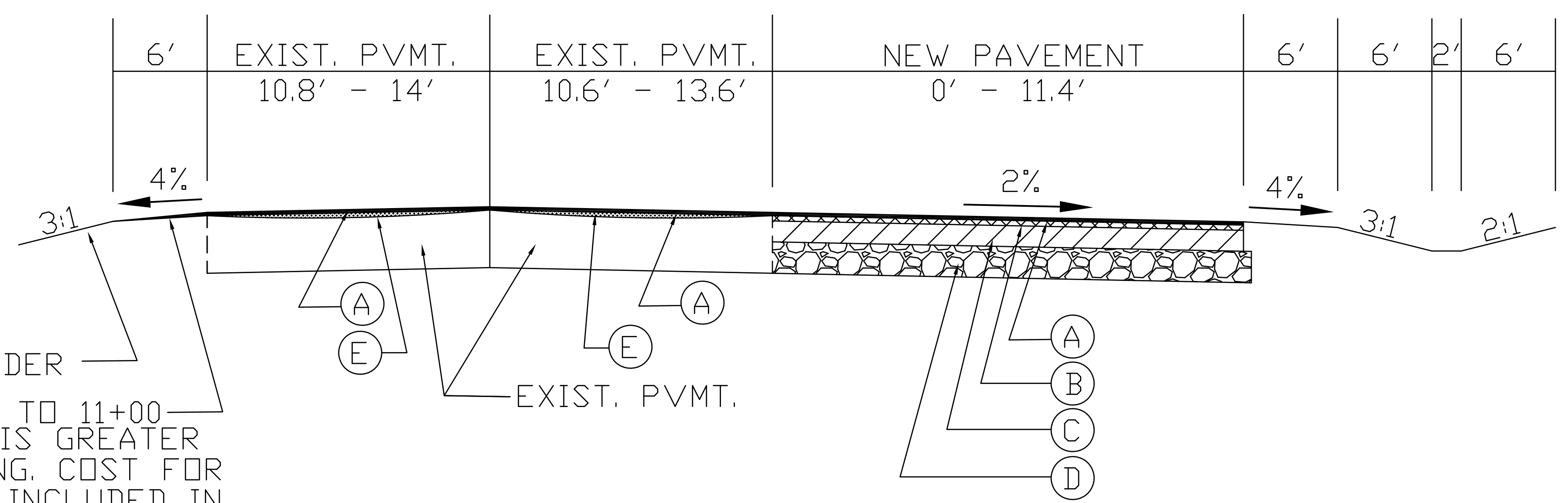
Cherokee County Department of Transportation

GENERAL NOTES

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

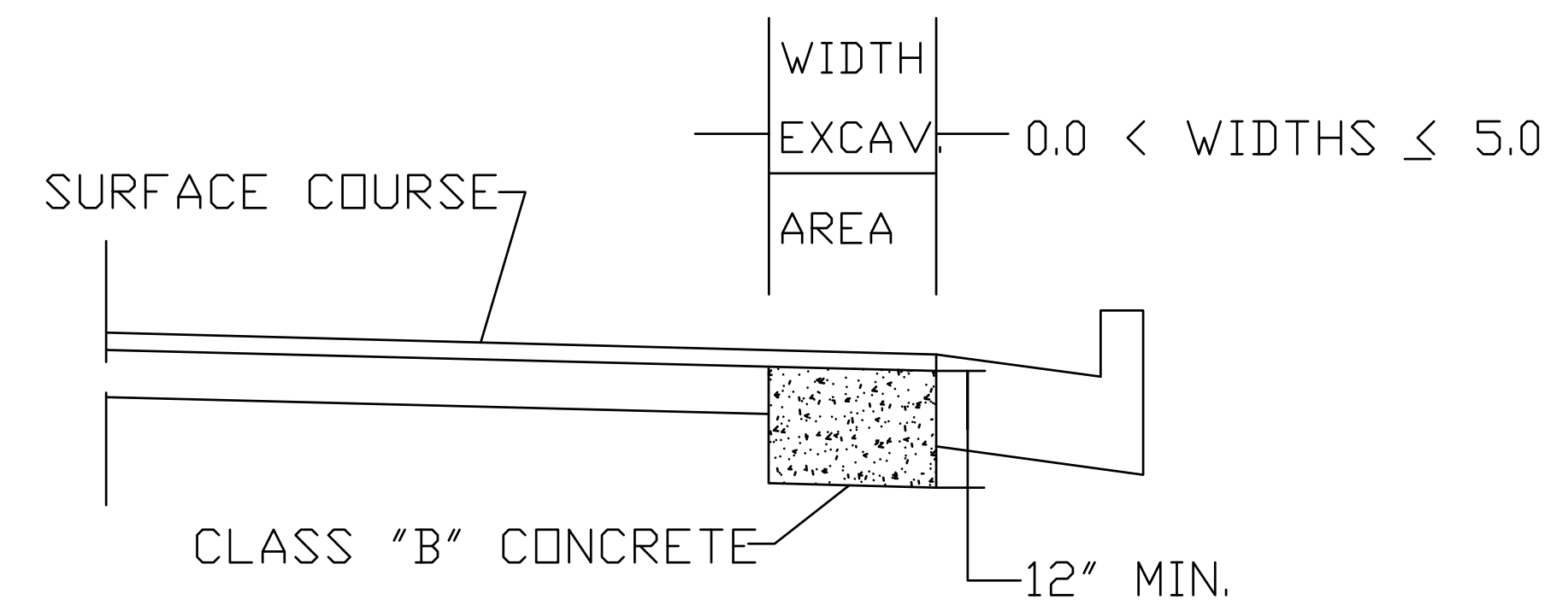
DRAWING NO.
 4-01

EXIST. PVMT.
C/L



EXIST. SHOULDER
STA 03+00 TO 11+00
CONTRACTOR TO ENSURE NO DROPOFF IS GREATER THAN 1 1/2" AFTER FINAL PAVING. COST FOR RESHAPING OF THE SHOULDER TO BE INCLUDED IN GRADING COMPLETE.

TYPICAL SECTION
BATESVILLE RD
STA. 03+00 TO 11+00



NO SCALE
CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
ITEM CODE 500-9999 - CU. YDS.

- REQUIRED PAVEMENT
- (A) 165 LBS/SY RECYCLED ASPH CONC, 12.5 MM SUPERPAVE, TYPE I, GP 2 ONLY, INCL BITUM MATL & H LIME
 - (B) 220 LBS/SY RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL & H LIME
 - (C) 440 LBS/SY RECYCLED ASPH CONC 25 MM MIX, GP 1 OR 2, INCL BITUM MATL & H LIME
 - (D) 10" GRADED AGGREGATE BASE
 - (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME

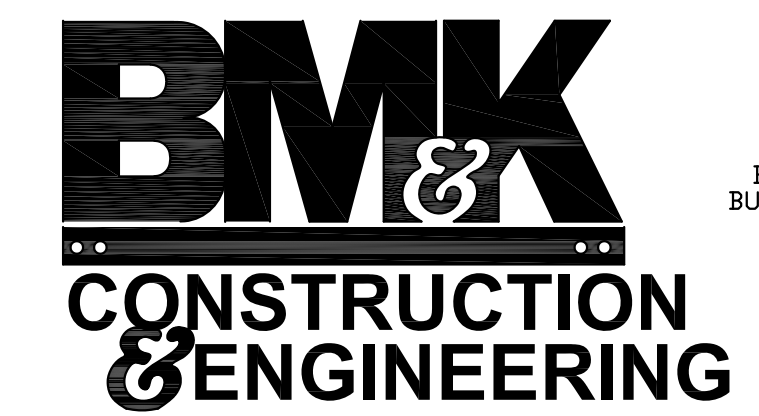
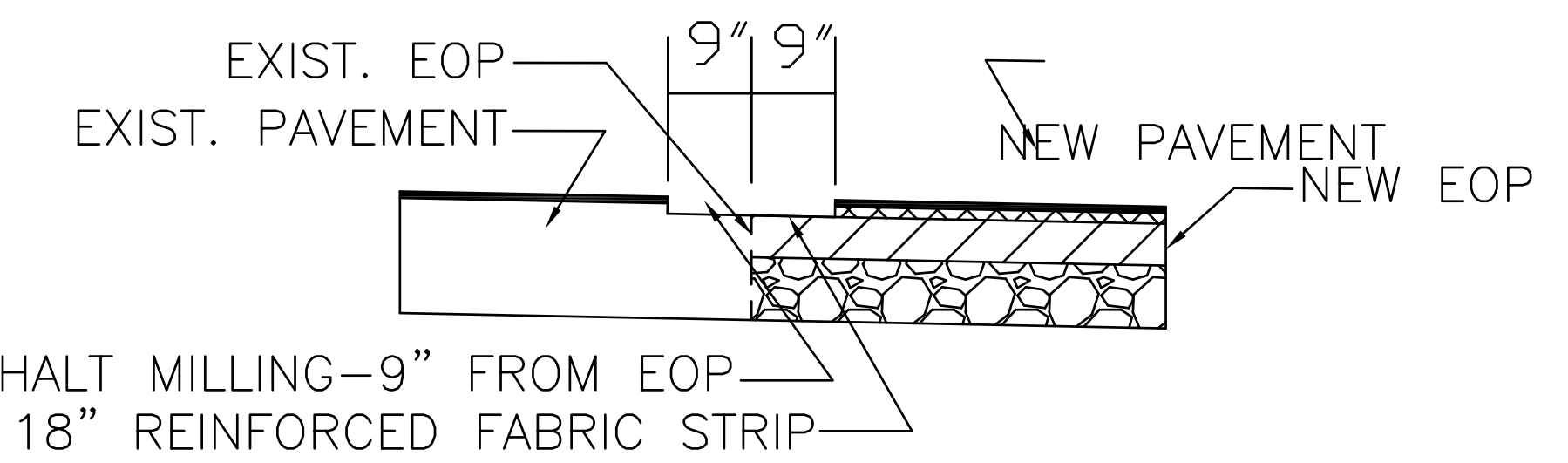
NOTE:
APPLY TACK COAT AND PRIME COAT PER GDOT SPECIFICATION.

IN EXCAVATED AREAS BETWEEN THE EXISTING PAVING AND NEW CURB AND GUTTER THAT ARE 5'-0" OR LESS IN WIDTH, CLASS "B" CONCRETE SHALL BE PLACED IN LIEU OF THE BASE AND PAVING SPECIFIED BY THE TYPICAL SECTION. PAYMENT WILL BE MADE UNDER "CLASS B CONCRETE BASE AND PAVEMENT WIDENING".

IN EXCAVATED AREAS GREATER THAN 5'-0" IN WIDTH, THE CONTRACTOR SHALL PLACE BASE AND PAVING AS SPECIFIED ON THE TYPICAL SECTION.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL

MILLING/ PVMT. REINFORCEMENT DETAIL
STA 03+00 TO 11+00



PO BOX 878
BRASLETEN, GA 30517
BUSINESS: 706-824-0514
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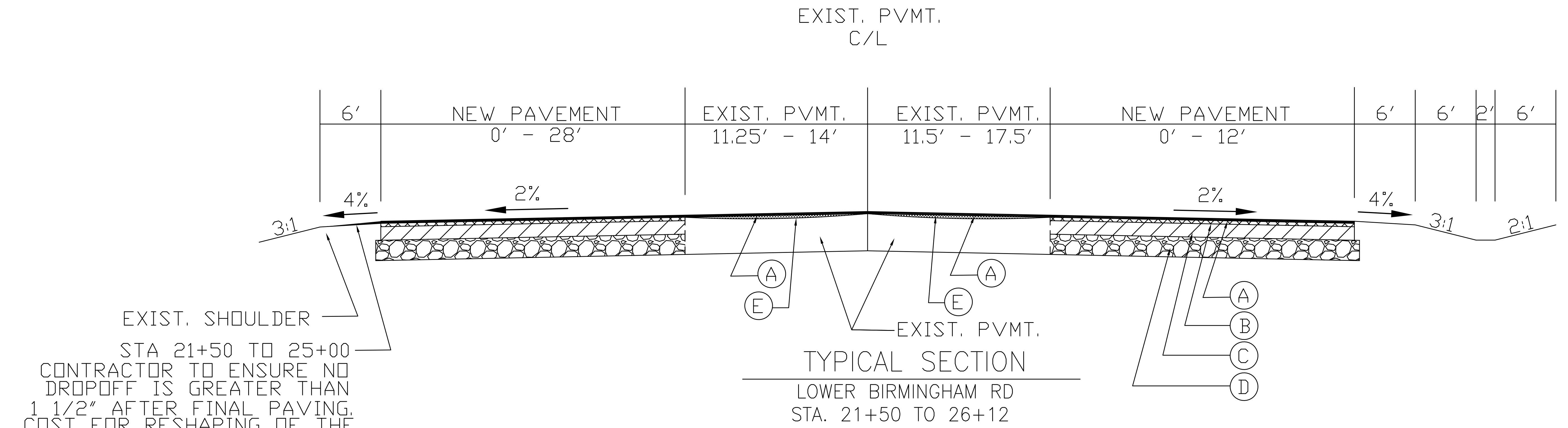
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Cherokee County Department of Transportation

TYPICAL SECTION
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
5-01

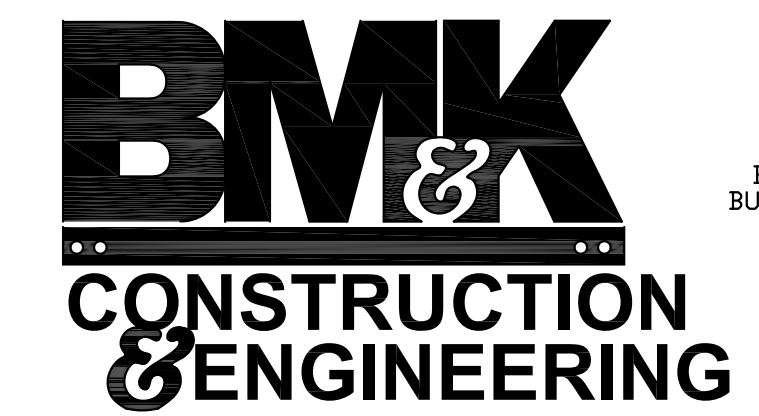
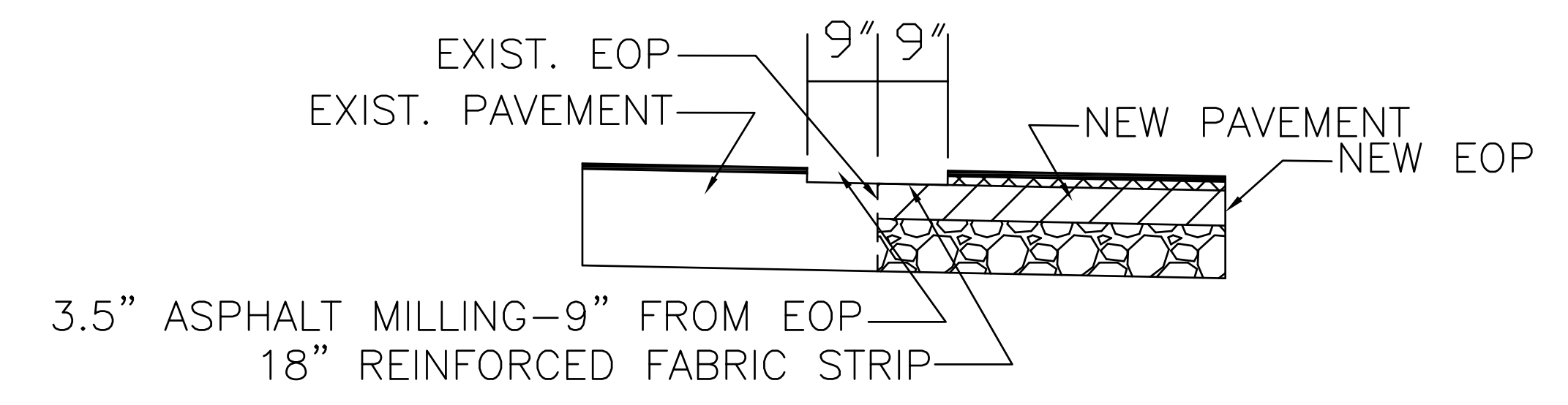
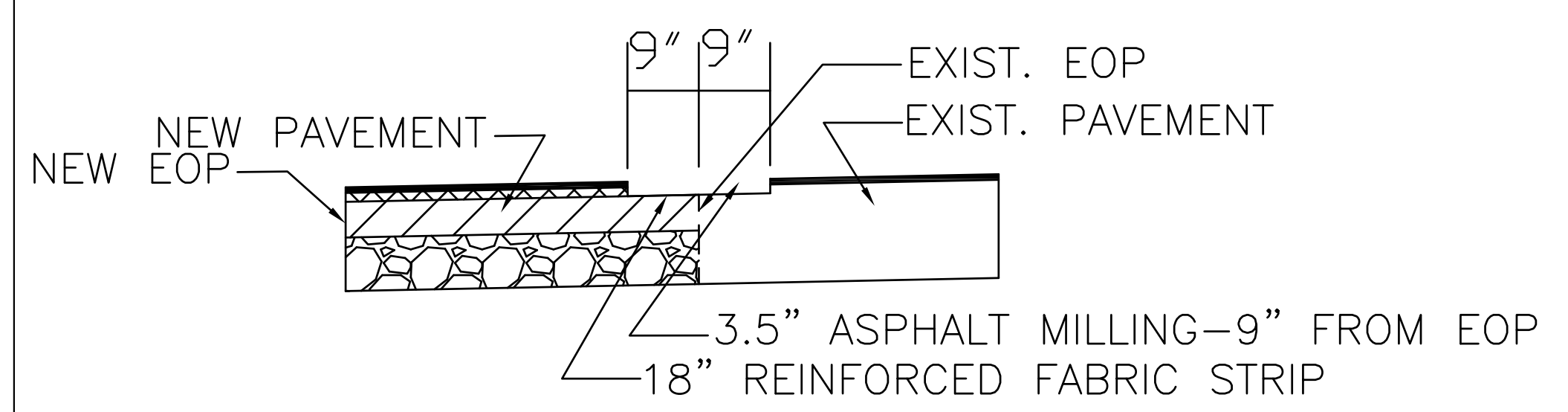


EXIST. SHOULDER
STA 21+50 TO 25+00
CONTRACTOR TO ENSURE NO
DROPOFF IS GREATER THAN
1 1/2" AFTER FINAL PAVING.
COST FOR RESHAPING OF THE
SHOULDER TO BE INCLUDED IN
GRADING COMPLETE.

- REQUIRED PAVEMENT**
- (A) 165 LBS/SY RECYCLED ASPH CONC, 12.5 MM SUPERPAVE, TYPE I, GP 2 ONLY INCL BITUM MATL & H LIME
 - (B) 220 LBS/SY RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL & H LIME
 - (C) 440 LBS/SY RECYCLED ASPH CONC 25 MM MIX, GP 1 OR 2, INCL BITUM MATL & H LIME
 - (D) 10" GRADED AGGREGATE BASE
 - (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME

NOTE:
APPLY TACK COAT AND PRIME COAT PER GDOT SPECIFICATION.

MILLING/ PVMT. REINFORCEMENT DETAIL
STA 21+50 TO 26+12



PO BOX 878
BRASLETON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
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Cherokee County Department of Transportation

TYPICAL SECTION
BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
5-02

SUMMARY OF QUANTITIES

SUMMARY OF PAVING QUANTITIES																				
LOCATION	GR AGGR BASE CRS, TO INCH, INCL MATL		ACGR SURF CRS		RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME		RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME		RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME		RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME		RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME		BITUM TACK COAT		MILL ASPH CONC PWMT VARIABLE DEPTH		PWMT REINF FABRIC STRIPS, TP2, 18 IN WIDTH	
	SY	TN	TN	TN	TN	TN	TN	TN	TN	TN	TN	TN	TN	TN	GL	SY	LF	SY	LF	
BATESVILLE ROAD	928								194	272	97	576	257	704						
LOWER BIRMINGHAM ROAD	495								109	151	54	324	129	396						
AS DIRECTED		100	150	100									114							
TOTAL	1423	100	150	100					303	423	151	900	500	1100						

CONCRETE ITEMS		
DESCRIPTION	UNIT	QUANTITY
CLASS B CONC, BASE OR PWMT WIDENING	CY	20

GRADING COMPLETE	
TOTAL	LS

GRADING COMPLETE SHALL INCLUDE THE REMOVAL OF ALL ITEMS WITHIN THE CONSTRUCTION LIMITS NECESSARY TO CONSTRUCT THE PROPOSED ROADWAY. GRADING COMPLETE SHALL ALSO INCLUDE THE REMOVAL OF ANY ITEMS NOTED ON THE PLANS THAT ARE OUTSIDE THE CONSTRUCTION LIMITS.

TRAFFIC CONTROL	
TOTAL	LS

TRAFFIC CONTROL SHALL INCLUDE ALL ITEMS RELATED TO CONSTRUCTION STAGING, INCLUDING BUT NOT LIMITED TO TEMPORARY PAVEMENT MARKINGS, SIGNS, BARRELS, AND TEMPORARY DRIVEWAYS. PAYMENT FOR THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL- LUMP SUM.

THERMOPLASTIC TRAFFIC STRIPE		
DESCRIPTION	UNIT	QUANTITY
		THERMOPLASTIC
5" SOLID WHITE	LF	2500
5" SOLID YELLOW	LF	2500
24" SOLID WHITE	LF	24
5" SKIP WHITE	GLF	100

THERMOPLASTIC PAVEMENT MARKING, ARROWS (EACH)	
DESCRIPTION	QUANTITY THERMOPLASTIC
TYPE 2	9

RAISED PAVEMENT MARKERS TP 1	
TOTAL	EA
	25

RAISED PAVEMENT MARKERS TP 3	
TOTAL	EA
	75

THERMOPLASTIC TRAFFIC STRIPE YELLOW (SY)	
DETAIL B	SY
	600

THERMOPLASTIC TRAFFIC STRIPE WHITE (SY)	
DETAIL A	SY
	112

REMOVE HIGHWAY SIGN	
TOTAL	EA
	5

RESET HIGHWAY SIGN	
TOTAL	EA
	5

RIGHT-OF-WAY MARKERS	
TOTAL	EA
	32

GRASSING			AGRICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	MULCH
ITEM	UNIT	QUANTITY	TN	TN	LB	TN
TEMPORARY GRASSING	AC	1				75
PERMANENT GRASSING	AC	1	1	0.5	60	
TOTAL			1	0.5	60	75

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	
TOTAL	EA
	3

TEMPORARY SILT FENCE, TYPE C	
TOTAL	LF
	1500

MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	
TOTAL	LF
	1000

WATER QUALITY INSPECTIONS	
TOTAL	MO
	6

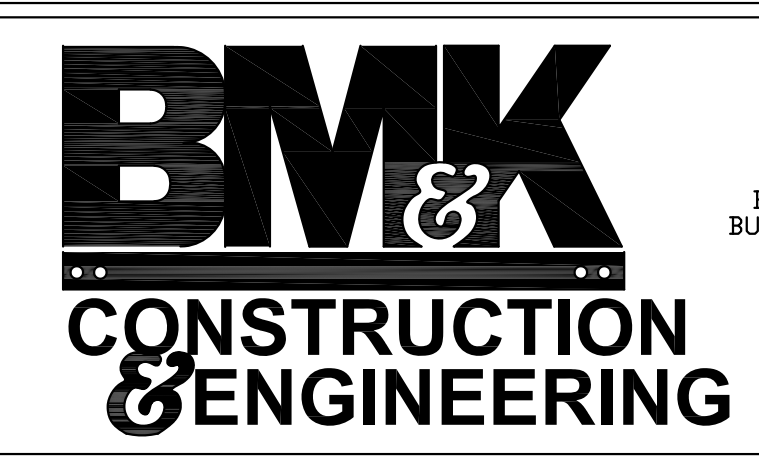
WATER QUALITY MONITORING AND SAMPLING	
TOTAL	EA
	2

EROSION CONTROL MATS, SLOPES	
TOTAL	SY
	2850

STN DUMPED RIP RAP, TP 3, 18 IN	
TOTAL	SY
	69

PLASTIC FILTER FABRIC	
TOTAL	SY
	69

SUMMARY OF DRAINAGE QUANTITIES										
STRUCTURE NUMBER	LOCATION	FEET			FLARED END SECTION, 36" STORM DRAIN	SAFETY END SECTION, 24" STORM DRAIN, 4:1 SLOPE	SAFETY END SECTION, 36" STORM DRAIN, 4:1 SLOPE	SAFETY END SECTION, 48" STORM DRAIN, 4:1 SLOPE	JUNCTION BOX	CLASS B CONC, HEADWALL
		24" HI-10	36" HI-10	48" HI-10						
		EA	EA	EA						
A	STA 05+67.50, 50.85' R							1		
A1	STA 06+03.55, 25.25' L			84						3
B	STA 06+91.01, 21.14' L					1				
B1	STA 06+25.69, 20.92' L	62								1
B2	STA 06+21.87, 26.27' L		4		1					
C	STA 06+69.49, 37.36' R		71				1			
TOTAL		62	75	84	1	1	1	1	1	3



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PLANS COMPLETED	
REVISIONS	
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04/24/17	CHEROKEE COUNTY COMMENTS
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12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

SUMMARY QUANTITIES

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

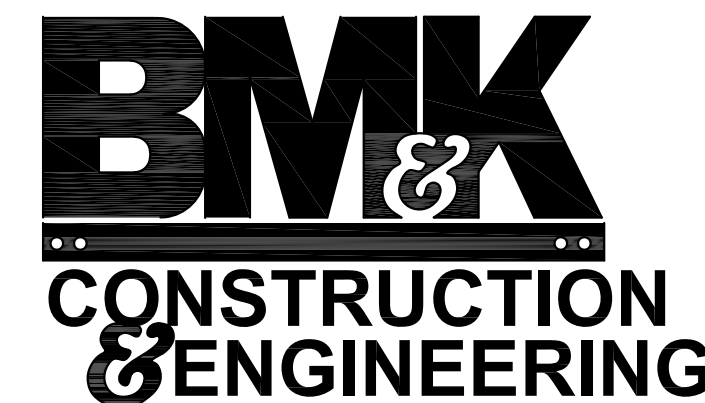
DRAWING NO.
6-01

INTERSECTION IMPROVEMENT
Batesville Road @ Lower Birmingham Road

Detailed Estimate

Section ROADWAY ITEMS			
Item Number	Item Description	Quantity	Units
150-1000	TRAFFIC CONTROL	1	1
210-0100	GRADING COMPLETE	1	LS
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	1423	SY
318-3000	AGGR SURF CRS	100	TN
402-1802	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	150	TN
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	100	TN
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	303	TN
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	423	TN
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	151	TN
413-1000	BITUM TACK COAT	900	GL
432-5010	MILL ASPH CONC PVMT, VARIABLE DEPTH	500	SY
446-1100	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	1100	LF
500-3200	CLASS B CONC, HEADWALL	3	CY
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	20	CY
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10	62	LF
550-1360	STORM DRAIN PIPE, 36 IN, H 1-10	75	LF
550-1480	STORM DRAIN PIPE, 48 IN, H 1-10	84	LF
550-3324	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE	1	EA
550-3336	SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE	1	EA
550-3348	SAFETY END SECTION 48 IN, STORM DRAIN, 4:1 SLOPE	1	EA
550-4236	FLARED END SECTION 36 IN, STORM DRAIN	1	EA
668-5000	JUNCTION BOX	1	EA
Section Permanent Erosion Control			
Item Number	Item Description	Quantity	Units
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	69	SY
603-7000	PLASTIC FILTER FABRIC	69	SY
700-6910	PERMANENT GRASSING	1	AC
700-7000	AGRICULTURAL LIME	1	TN
700-8000	FERTILIZER MIXED GRADE	0.5	TN
700-8100	FERTILIZER NITROGEN CONTENT	60	LB
716-2000	EROSION CONTROL MATS, SLOPES	2850	SY
Section Temporary Erosion Control			

Item Number	Item Description	Quantity	Units
163-0232	TEMPORARY GRASSING	1	AC
163-0240	MULCH	75	TN
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	3	EA
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1000	LF
167-1000	WATER QUALITY MONITORING AND SAMPLING	2	EA
167-1500	WATER QUALITY INSPECTIONS	6	MO
171-0010	TEMPORARY SILT FENCE, TYPE C	1500	LF
Section Signing & Marking			
Item Number	Item Description	Quantity	Units
610-6515	REMOVE HIGHWAY SIGN	5	EA
611-5360	RESET HIGHWAY SIGN	5	EA
634-1200	RIGHT OF WAY MARKERS	32	EA
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	9	EA
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	2500	LF
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	2500	LF
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	24	LF
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	100	GLF
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	112	SY
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	600	SY
654-1001	RAISED PVMT MARKERS TP 1	25	EA
654-1003	RAISED PVMT MARKERS TP 3	75	EA



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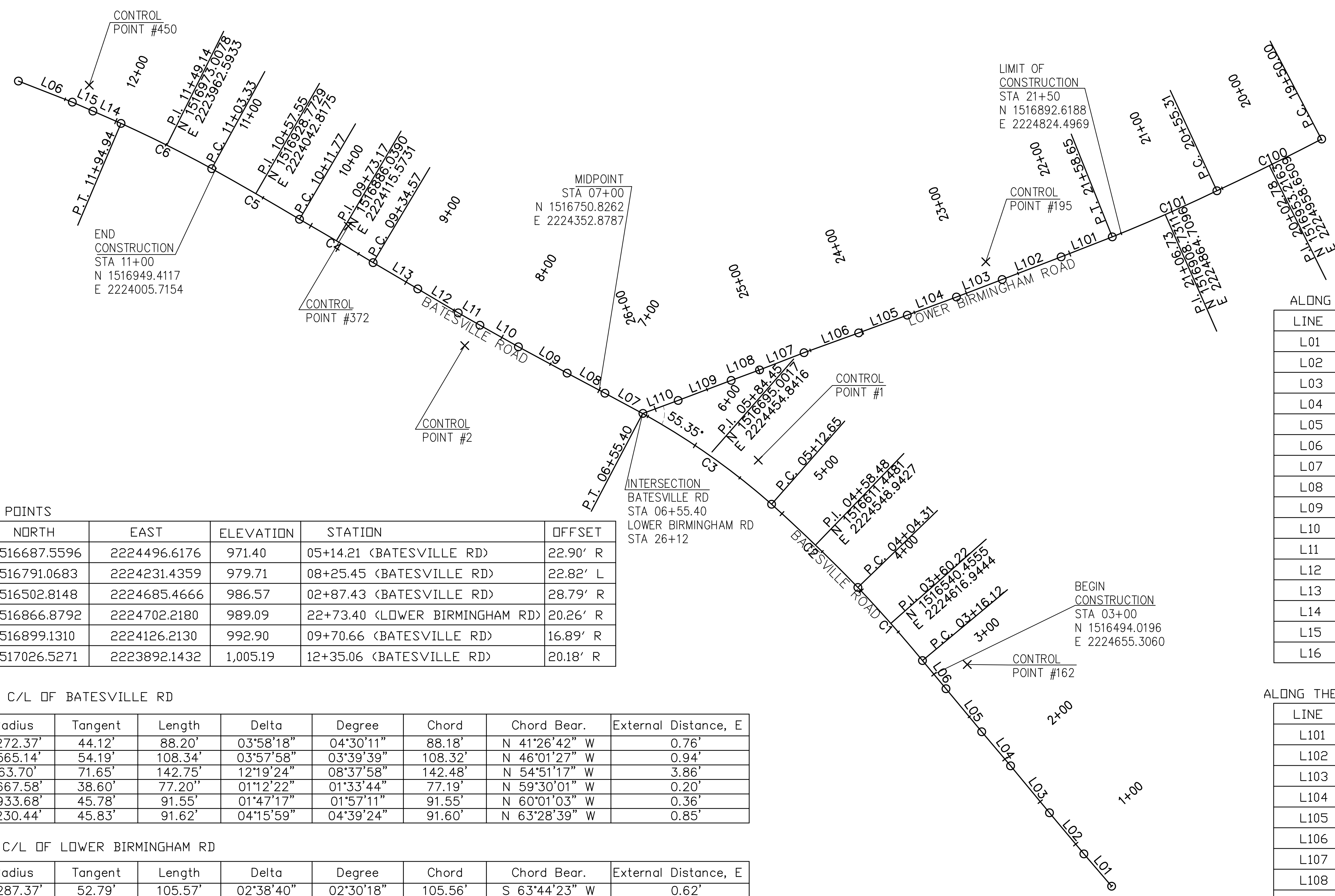
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REVISIONS	
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Cherokee County Department of Transportation

DETAILED ESTIMATE

BATESVILLE ROAD AND LOWER
 BIRMINGHAM ROAD INTERSECTION
 IMPROVEMENT PROJECT

DRAWING NO.
9-01



CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	STATION	OFFSET
1	1516687.5596	2224496.6176	971.40	05+14.21 <BATESVILLE RD>	22.90' R
2	1516791.0683	2224231.4359	979.71	08+25.45 <BATESVILLE RD>	22.82' L
162	1516502.8148	2224685.4666	986.57	02+87.43 <BATESVILLE RD>	28.79' R
195	1516866.8792	2224702.2180	989.09	22+73.40 <LOWER BIRMINGHAM RD>	20.26' R
372	1516899.1310	2224126.2130	992.90	09+70.66 <BATESVILLE RD>	16.89' R
450	1517026.5271	2223892.1432	1,005.19	12+35.06 <BATESVILLE RD>	20.18' R

ALONG THE C/L OF BATESVILLE RD

Curve	Radius	Tangent	Length	Delta	Degree	Chord	Chord Bear.	External Distance, E
C1	1,272.37'	44.12'	88.20'	03°58'18"	04°30'11"	88.18'	N 41°26'42" W	0.76'
C2	1,565.14'	54.19'	108.34'	03°57'58"	03°39'39"	108.32'	N 46°01'27" W	0.94'
C3	663.70'	71.65'	142.75'	12°19'24"	08°37'58"	142.48'	N 54°51'17" W	3.86'
C4	3,667.58'	38.60'	77.20'	01°12'22"	01°33'44"	77.19'	N 59°30'01" W	0.20'
C5	2,933.68'	45.78'	91.55'	01°47'17"	01°57'11"	91.55'	N 60°01'03" W	0.36'
C6	1,230.44'	45.83'	91.62'	04°15'59"	04°39'24"	91.60'	N 63°28'39" W	0.85'

ALONG THE C/L OF LOWER BIRMINGHAM RD

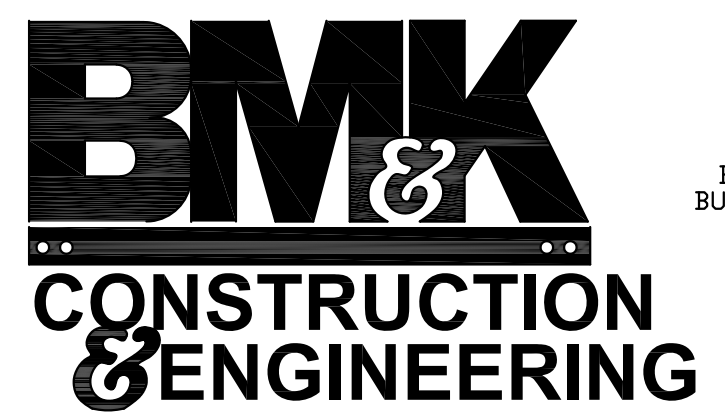
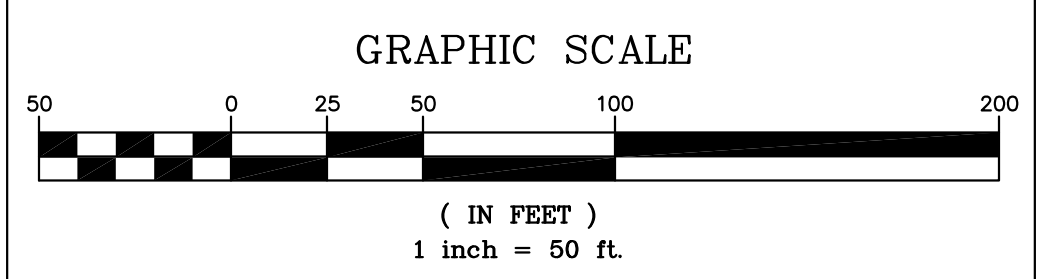
Curve	Radius	Tangent	Length	Delta	Degree	Chord	Chord Bear.	External Distance, E
C100	2,287.37'	52.79'	105.57'	02°38'40"	02°30'18"	105.56'	S 63°44'23" W	0.62'
C101	1,529.82'	51.56'	103.08'	03°51'38"	03°44'43"	103.06'	S 66°12'18" W	0.87'

ALONG THE C/L OF BATESVILLE RD

LINE	BEARING	DISTANCE
L01	N 40°38'08" W	38.51'
L02	N 39°53'37" W	48.44'
L03	N 39°37'23" W	53.10'
L04	N 40°15'40" W	40.38'
L05	N 39°42'13" W	50.53'
L06	N 39°50'19" W	33.17'
L07	N 61°43'01" W	38.88'
L08	N 61°59'57" W	38.69'
L09	N 61°37'27" W	50.02'
L10	N 60°41'22" W	39.87'
L11	N 60°16'40" W	22.55'
L12	N 59°22'56" W	42.52'
L13	N 59°30'59" W	46.81'
L14	N 66°17'47" W	27.75'
L15	N 66°31'21" W	20.28'
L16	N 68°39'49" W	52.32'

ALONG THE C/L OF LOWER BIRMINGHAM RD

LINE	BEARING	DISTANCE
L101	S 68°37'26" W	49.89'
L102	S 69°00'29" W	57.05'
L103	S 69°02'50" W	44.26'
L104	S 69°44'17" W	47.36'
L105	S 69°55'57" W	47.00'
L106	S 70°05'30" W	52.52'
L107	S 68°48'43" W	43.11'
L108	S 69°43'14" W	27.34'
L109	S 69°16'30" W	51.45'
L110	S 69°47'42" W	33.92'



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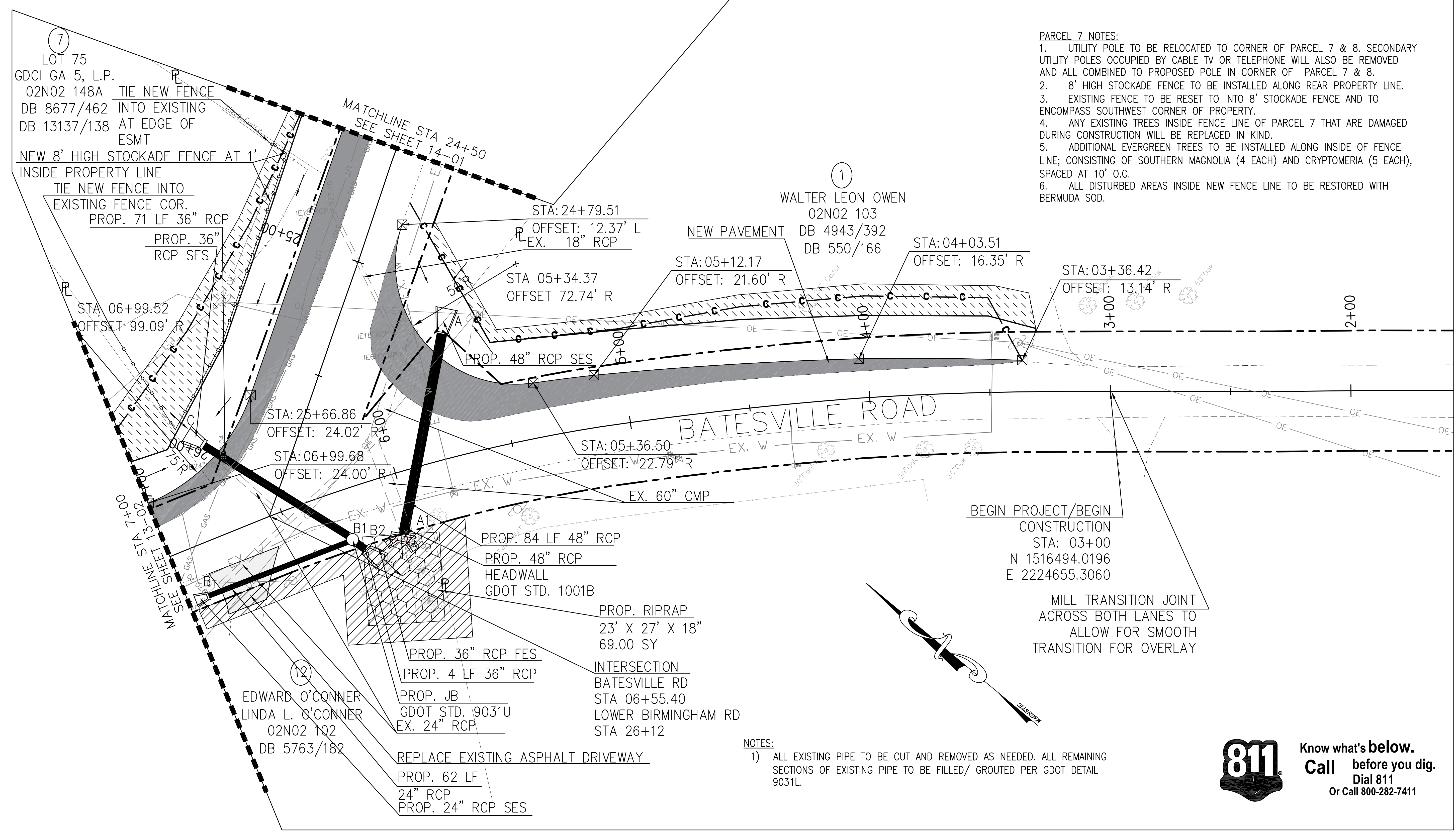
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Cherokee County Department of Transportation

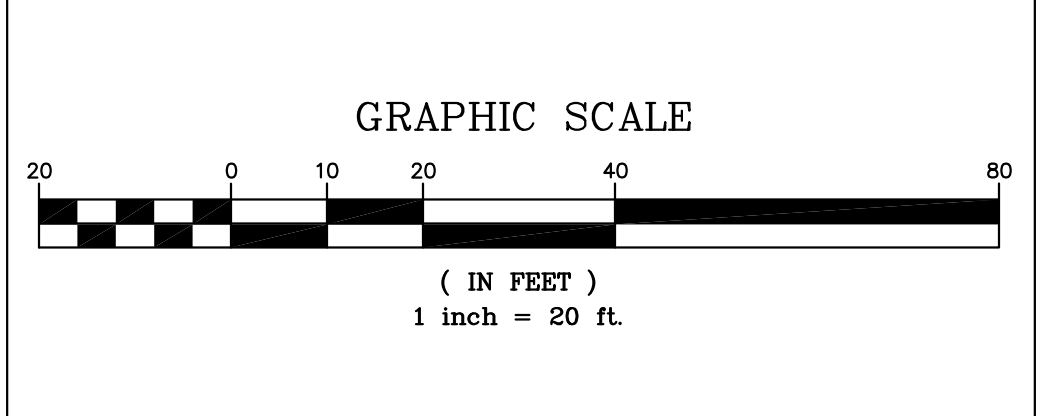
CONSTRUCTION LAYOUT

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 11-01



PROPERTY AND EX R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTRUCTION OF SLOPES	
EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	



BM&K
CONSTRUCTION & ENGINEERING

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 BRASSETON, GA 30517
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GEORGIA
 REGISTERED
 No. 029212
 PROFESSIONAL
 ENGINEER
David B. Clerici
 GSICC LEVEL II
 CERTIFICATION # 804

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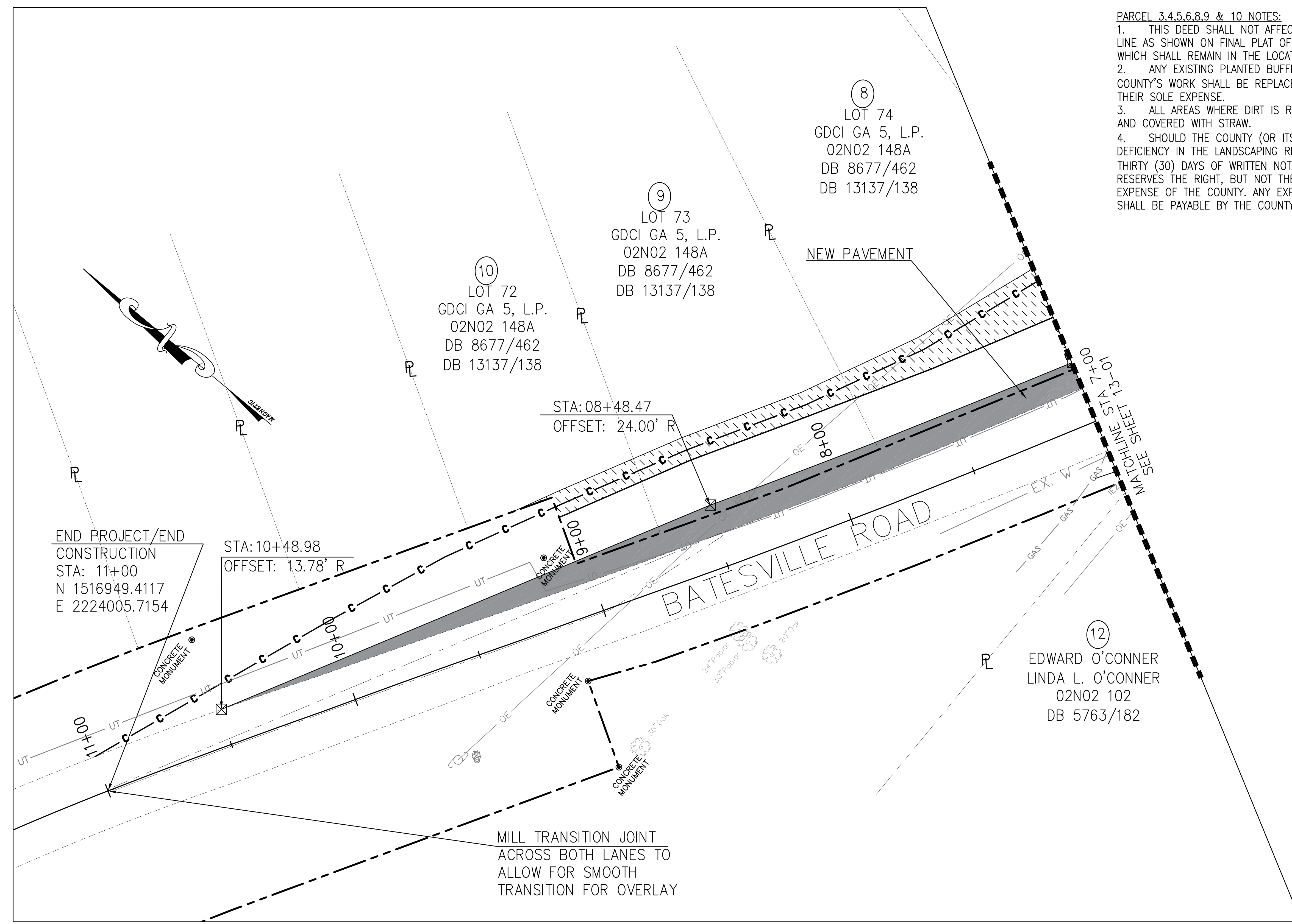
Cherokee County Department of Transportation

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MAINLINE PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 13-01



PARCEL 3,4,5,6,8,9 & 10 NOTES:

1. THIS DEED SHALL NOT AFFECT THE LOCATION OF THE REAR YARD SETBACK LINE AS SHOWN ON FINAL PLAT OF THE FALLS AT HICKORY FLAT, PHASE 2B WHICH SHALL REMAIN IN THE LOCATION SHOWN ON SAID PLAT.
2. ANY EXISTING PLANTED BUFFER TREES THAT MAY BE DAMAGED BY THE COUNTY'S WORK SHALL BE REPLACED BY THE COUNTY (OR ITS CONTRACTOR) AT THEIR SOLE EXPENSE.
3. ALL AREAS WHERE DIRT IS REMOVED BY THE COUNTY SHALL BE RE-SEEDED AND COVERED WITH STRAW.
4. SHOULD THE COUNTY (OR ITS CONTRACTOR) FAIL TO REMEDY ANY DEFICIENCY IN THE LANDSCAPING REQUIRED BY SECTION 2 OR 3 ABOVE WITHIN THIRTY (30) DAYS OF WRITTEN NOTIFICATION FROM GRANTOR, GRANTOR HEREBY RESERVES THE RIGHT, BUT NOT THE DUTY, TO MAKE SUCH CORRECTIONS AT THE EXPENSE OF THE COUNTY. ANY EXPENSE OCCURRED BY GRANTOR IN THIS REGARD SHALL BE PAYABLE BY THE COUNTY UPON DEMAND.

END PROJECT/END CONSTRUCTION
 STA: 11+00
 N 1516949.4117
 E 2224005.7154

STA: 10+48.98
 OFFSET: 13.78' R

STA: 08+48.47
 OFFSET: 24.00' R

10
 LOT 72
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138

9
 LOT 73
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138

8
 LOT 74
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138

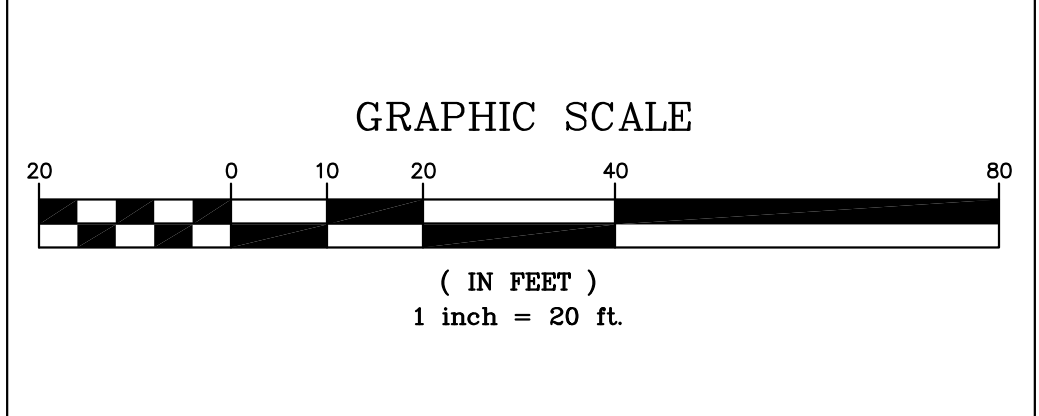
12
 EDWARD O'CONNOR
 LINDA L. O'CONNOR
 02N02 102
 DB 5763/182

MILL TRANSITION JOINT
 ACROSS BOTH LANES TO
 ALLOW FOR SMOOTH
 TRANSITION FOR OVERLAY



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PROPERTY AND EX R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTRUCTION OF SLOPES	
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REGISTERED PROFESSIONAL ENGINEER
 No. 029212
 B. Clerici

GSWCC LEVEL II
 CERTIFICATION # 804

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Cherokee County Department of Transportation

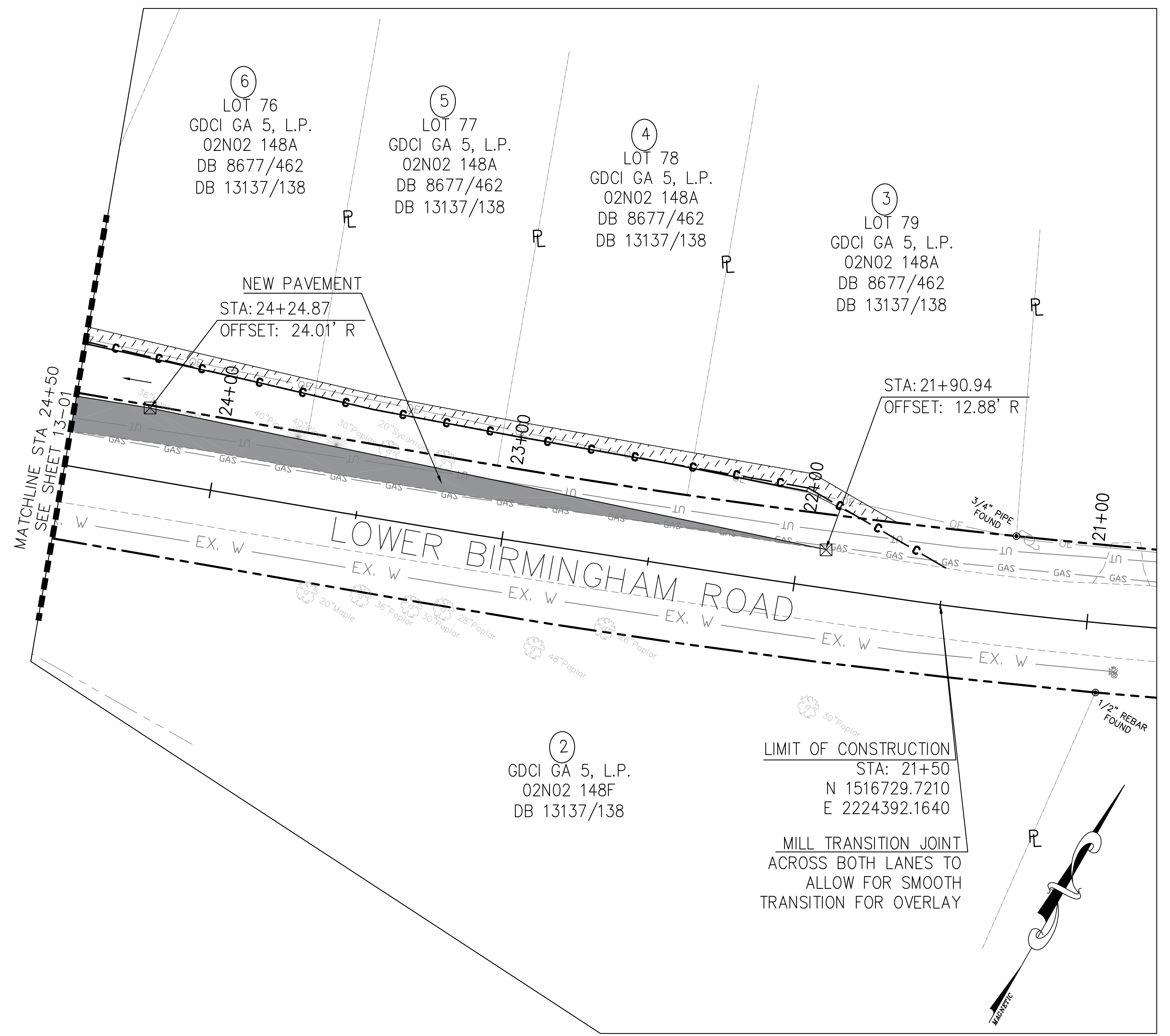
MAINLINE PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 13-02

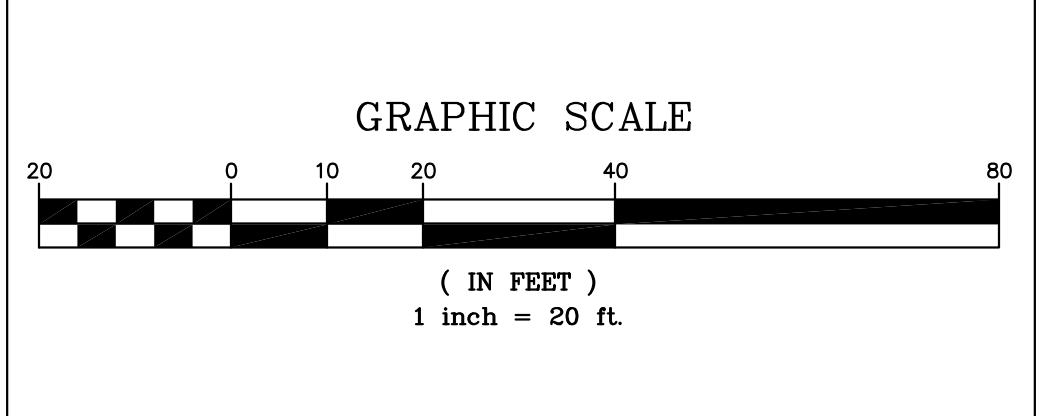
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
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 GSICC LEVEL II CERTIFICATION # 804

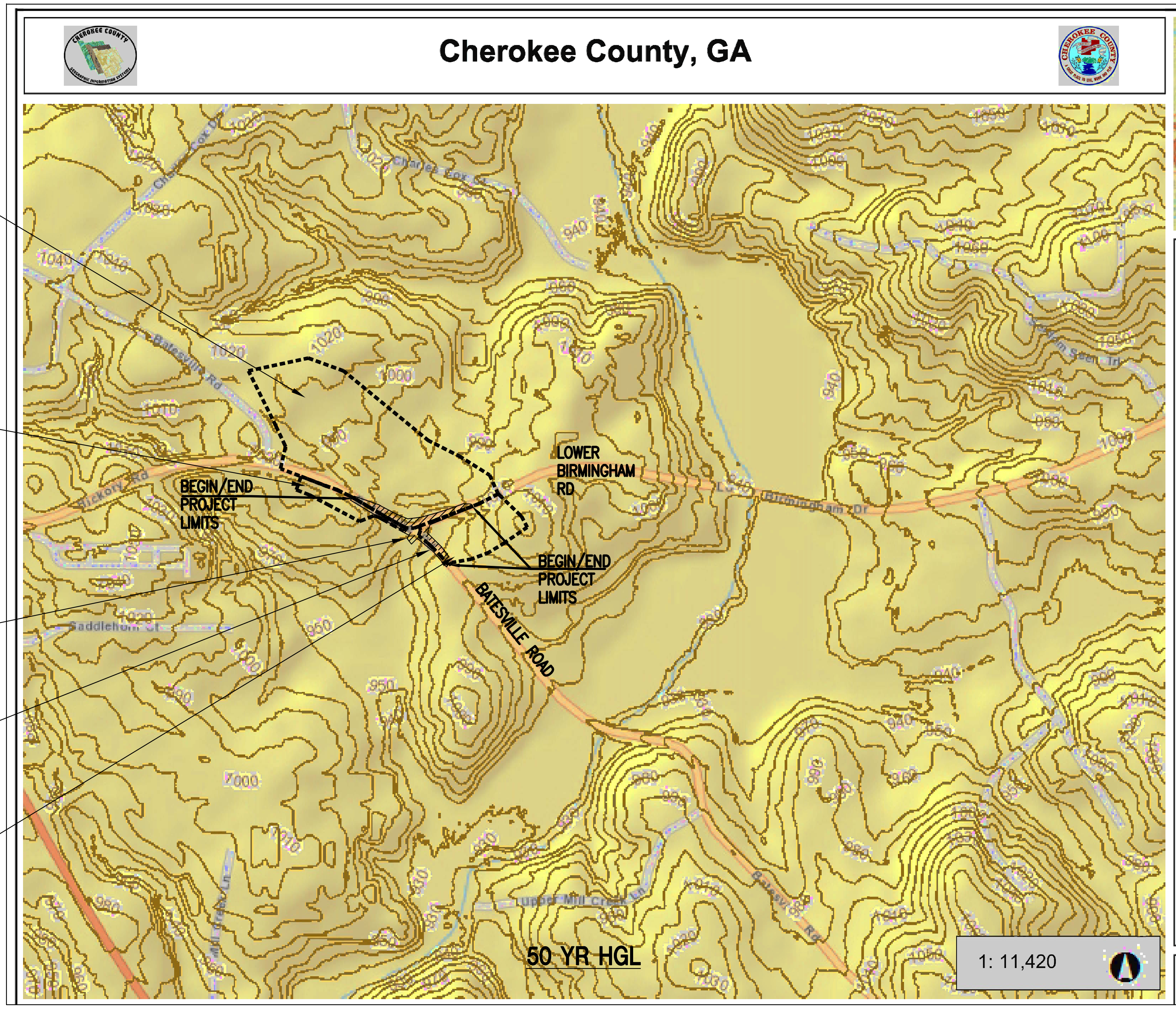
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Cherokee County Department of Transportation

CROSSROAD PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 14-01



LINE C
DRAINAGE AREA = 23
ACRES
DISTURBED AREA = 0.7
ACRES

LINE B
DRAINAGE
AREA = 1.6 ACRES

DISTURBED AREA
1.0 ACRES

PROJECT AREA
1.8 ACRES

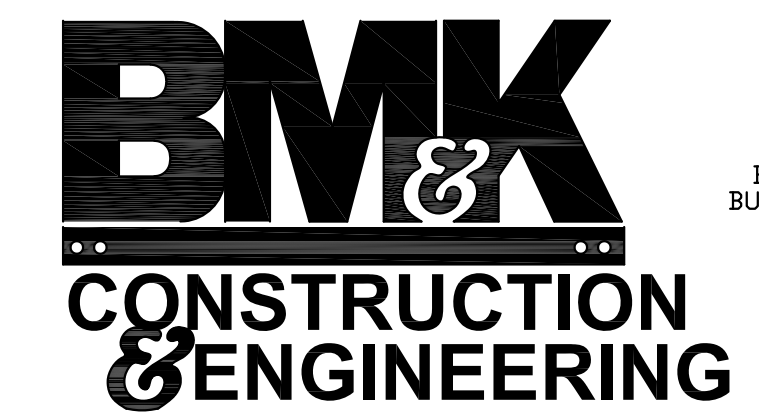
LINE A
DRAINAGE AREA =
4.6 ACRES
DISTURBED AREA =
0.3 ACRES

NOTES:

1. THE PROJECT RECEIVING WATERS IS UNNAMED TRIBUTARY OF MILL CREEK
2. THE SENSITIVE AREAS ADJACENT TO PROJECT THAT MAY BE AFFECTED ARE ADJACENT RESIDENTIAL AREAS.
3. NO PONDS OR LAKES WITHIN 500' OF PROJECT.
- 4.

100 YR HGL

Line ID	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	Incr.C x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID
LINE A-1	84	4.6	4.6	0.4	1.84	1.84	14	14	7.5	13.76	0	13.76	307.53	4.24	48	4.58	963.57	967.42	964.98	968.5	968.57	971.42	LINE A-1
Line B-2	4	0	24.6	0	0	9.84	0	30.2	5.3	52.59	0	52.59	149.14	14.04	36	5	965.35	965.55	966.58	967.91	967.35	970.47	Line B-2
Line B-1	62	1.6	1.6	0.4	0.64	0.64	18	18	6.8	4.34	0	4.34	44.41	6.57	24	3.85	967.6	969.99	968.02	970.72	970.47	971.99	Line B-1
Line C	71	23	23	0.4	9.2	9.2	30	30	5.4	49.31	0	49.31	140.03	13.31	36	4.41	966.68	969.81	967.91	972.09	970.47	972.81	Line C



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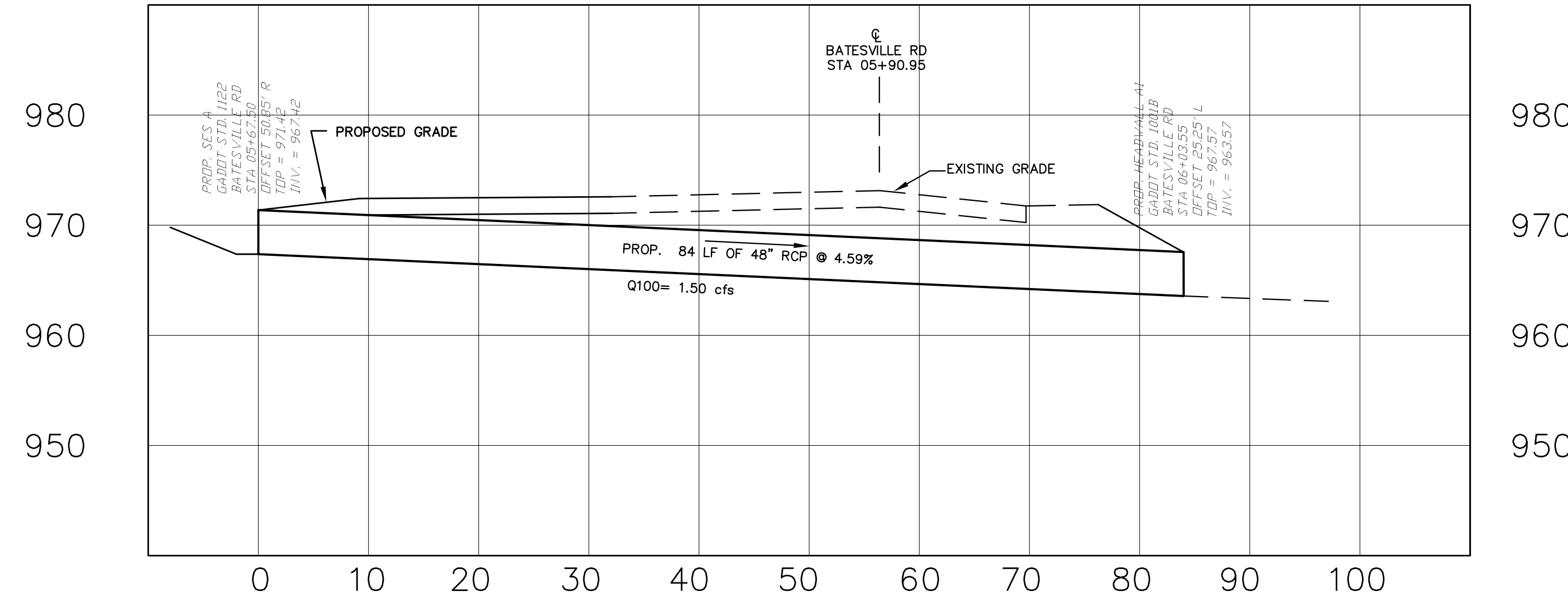
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Cherokee County Department of Transportation

DRAINAGE AREA MAP

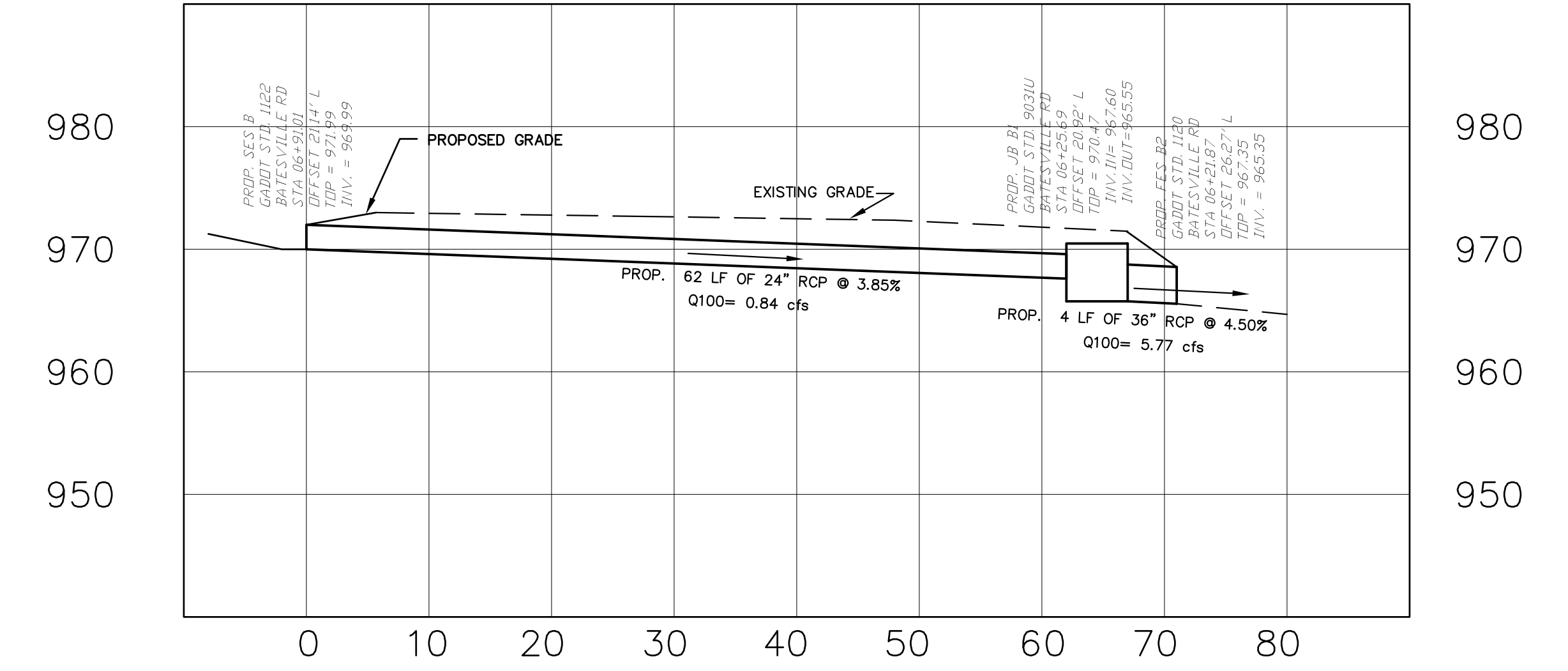
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
21-01



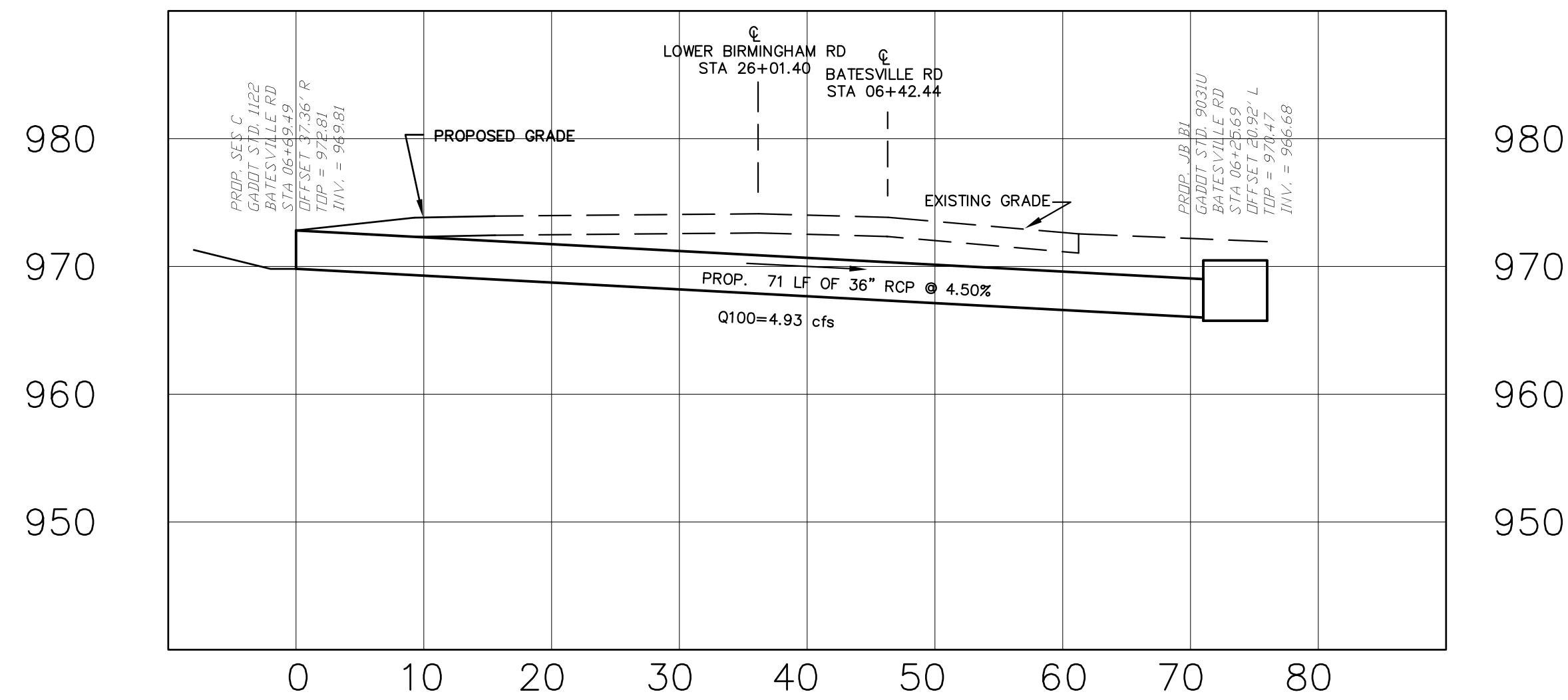
STORM PROFILE A

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'



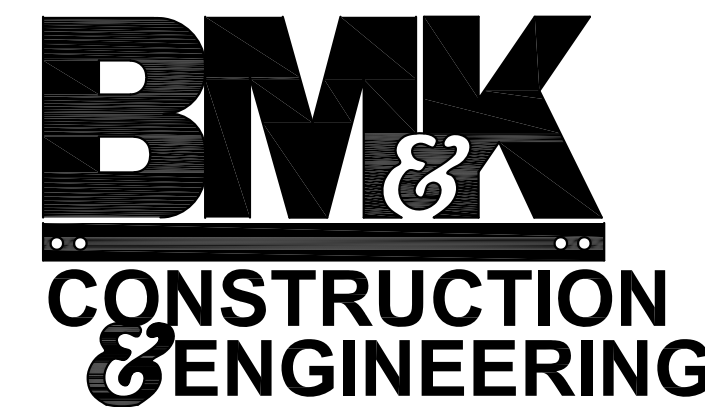
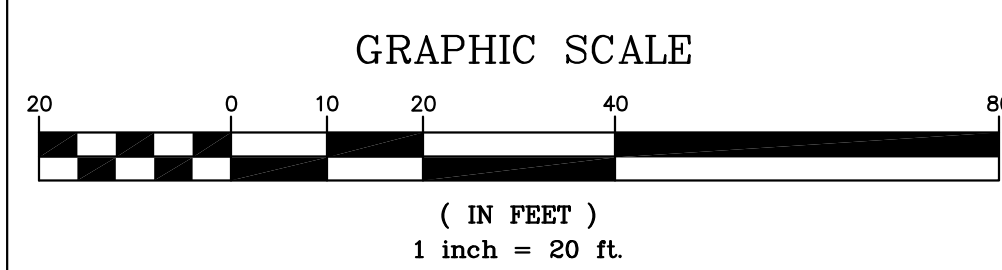
STORM PROFILE B

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'



STORM PROFILE C

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'



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GSWCC LEVEL II
CERTIFICATION # 804

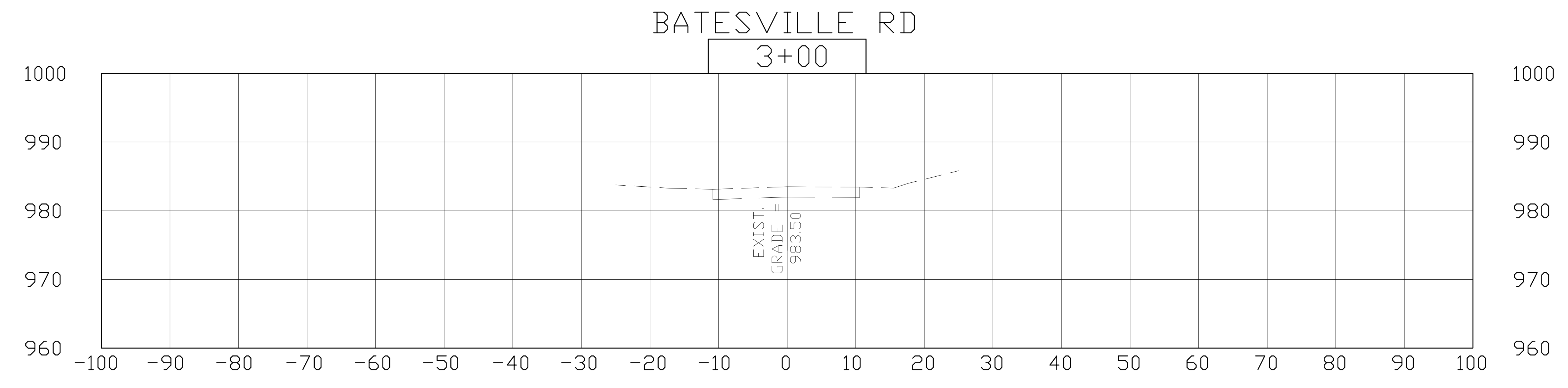
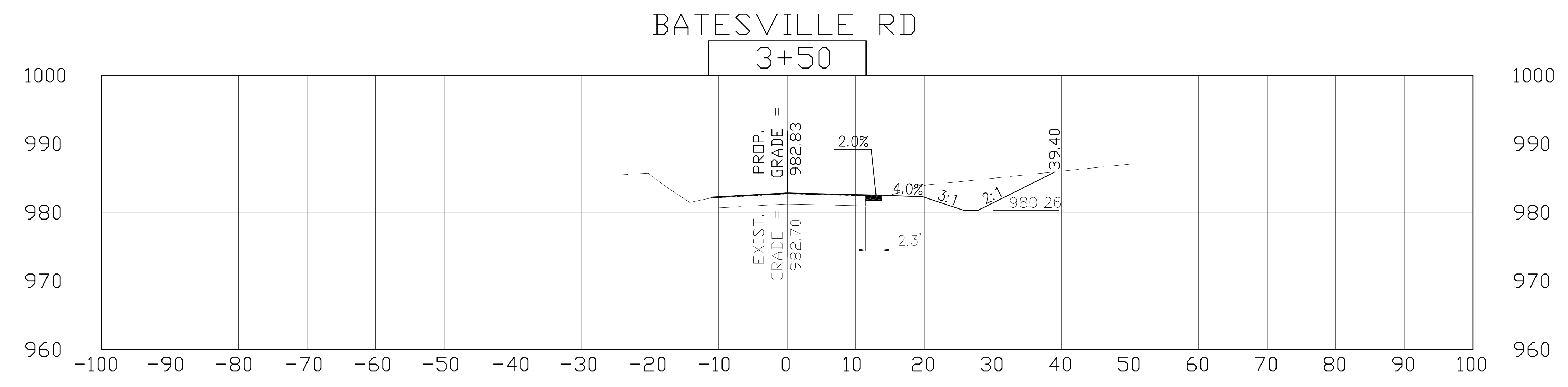
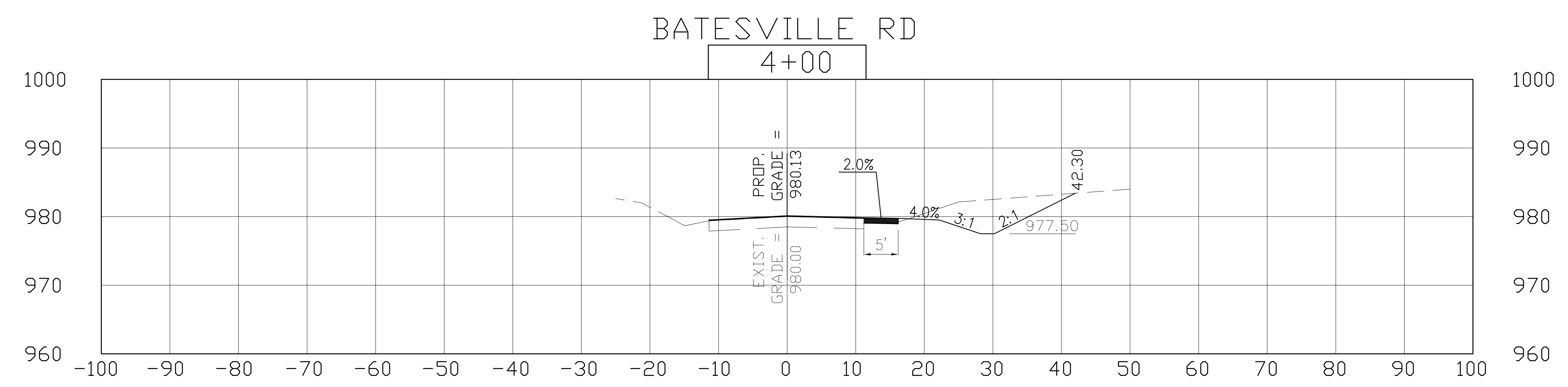
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

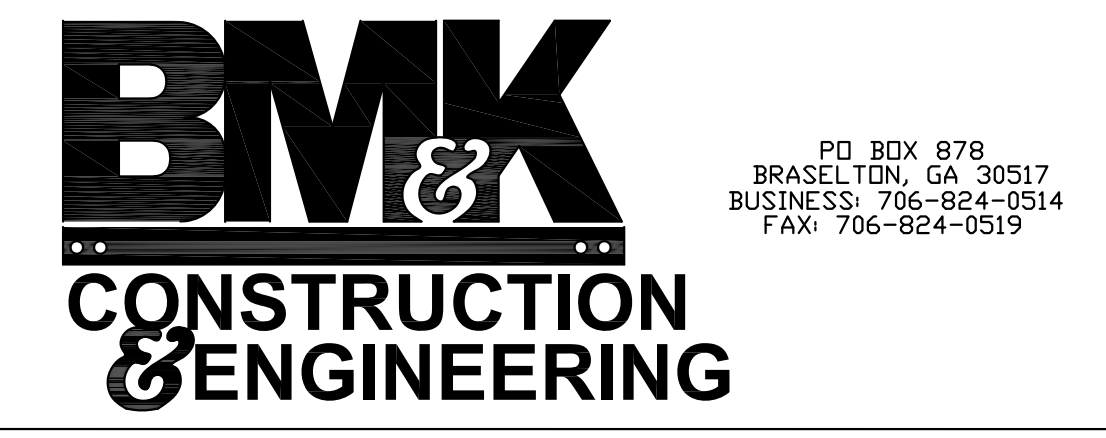
DRAINAGE PROFILES

BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
22-01



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

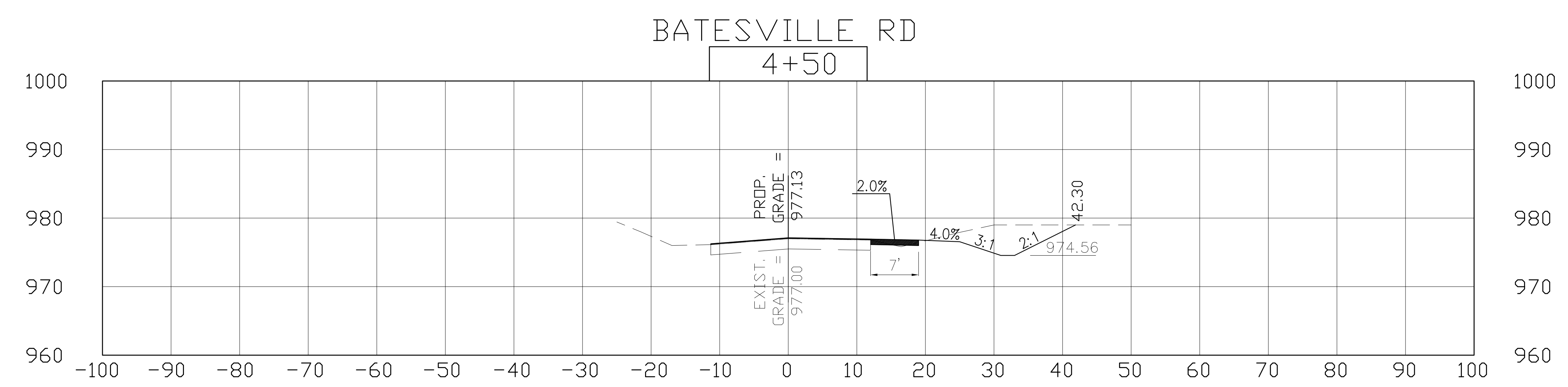
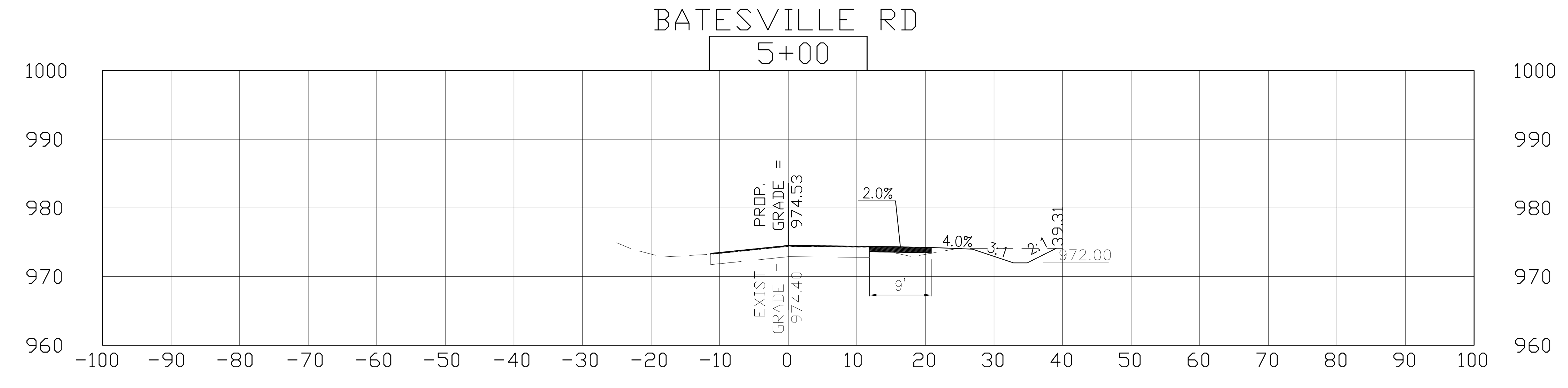
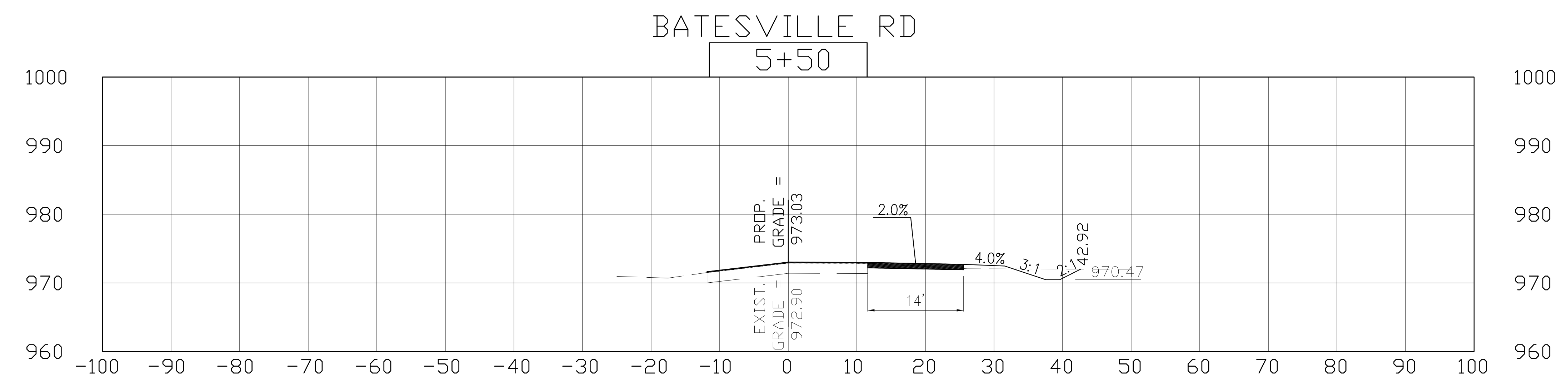


PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

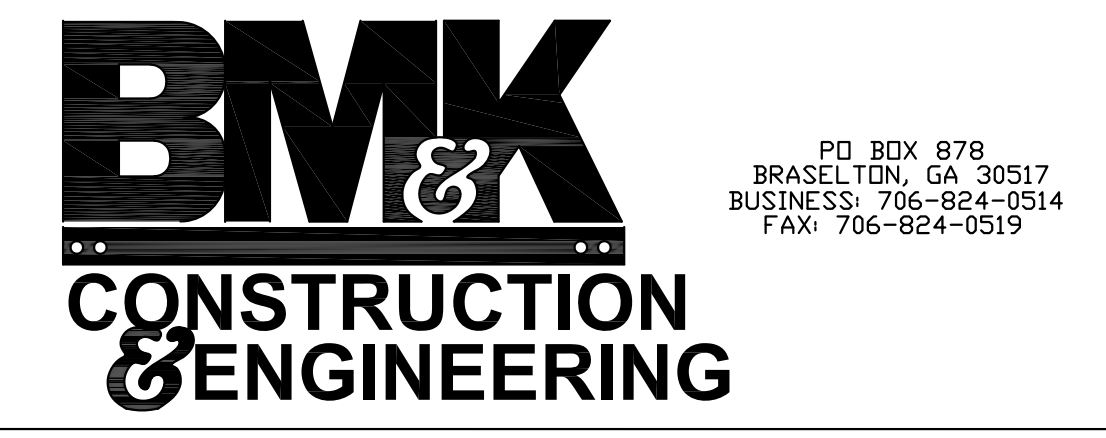
Cherokee County Department of Transportation

CROSS SECTIONS
BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
23-01



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

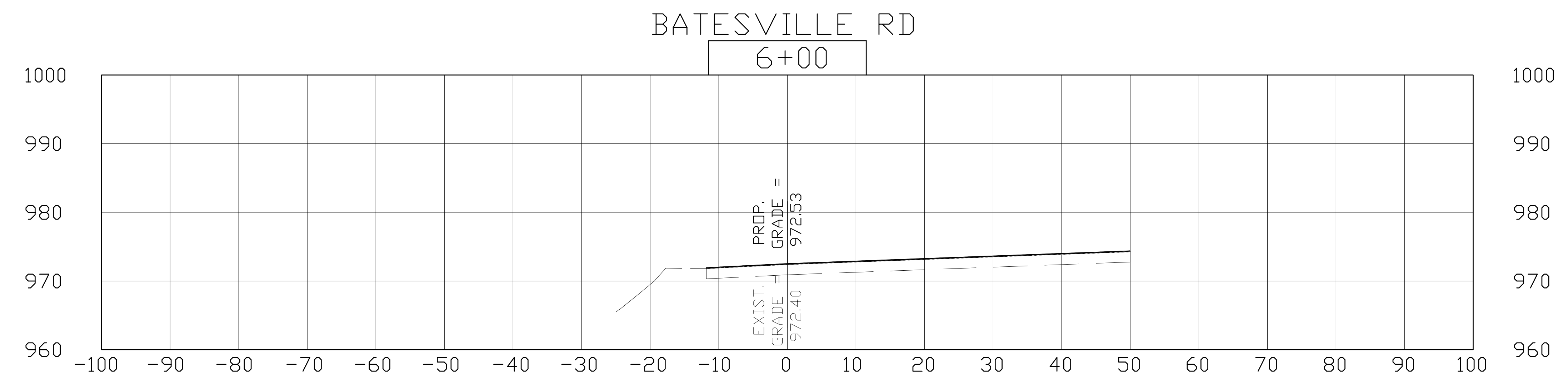
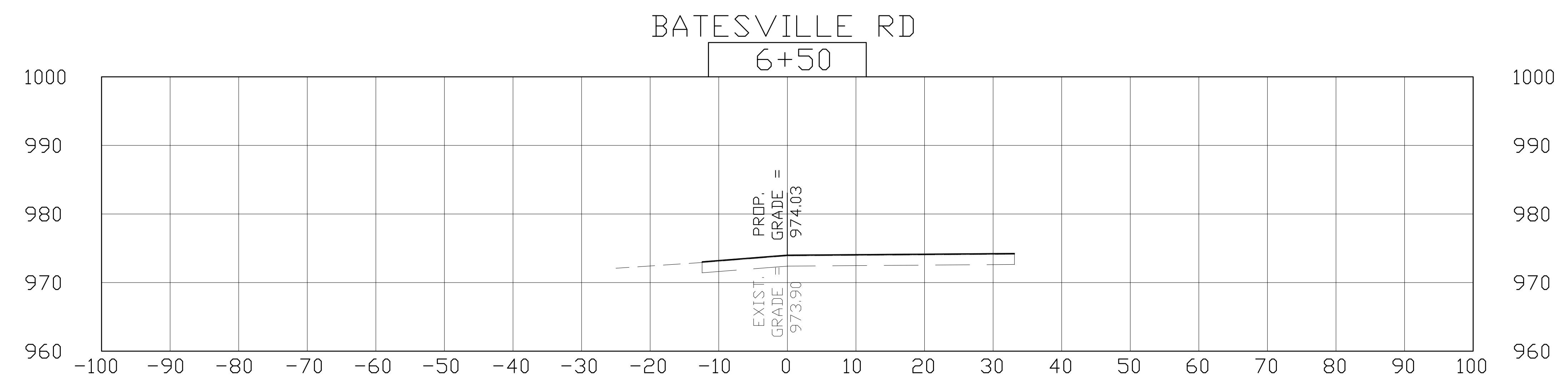
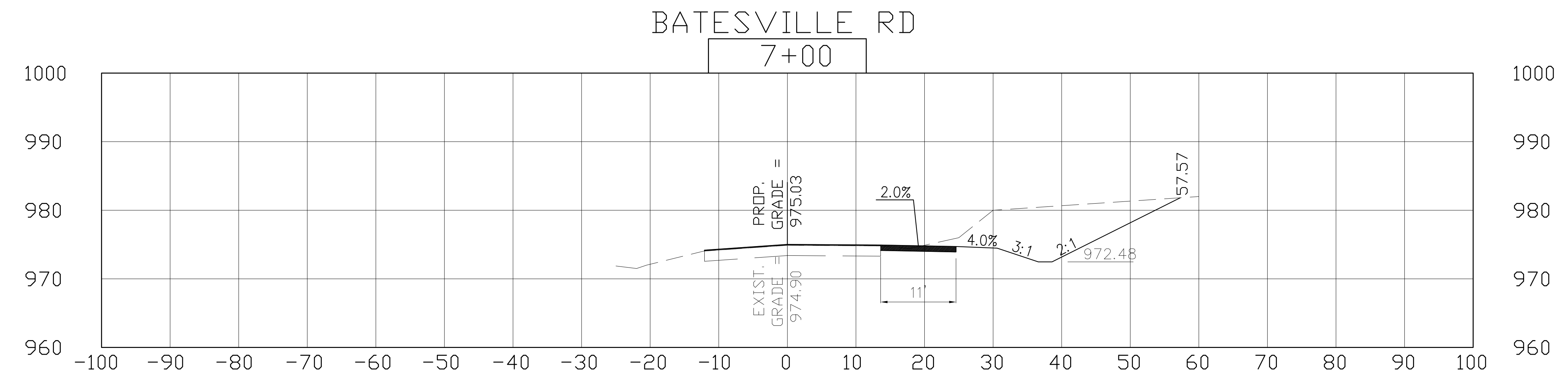


PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

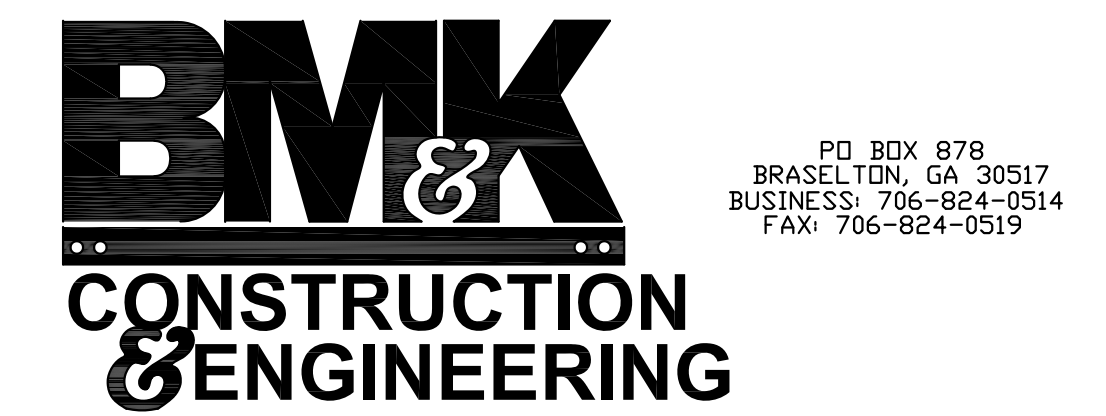
Cherokee County Department of Transportation

CROSS SECTIONS
BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
23-02



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

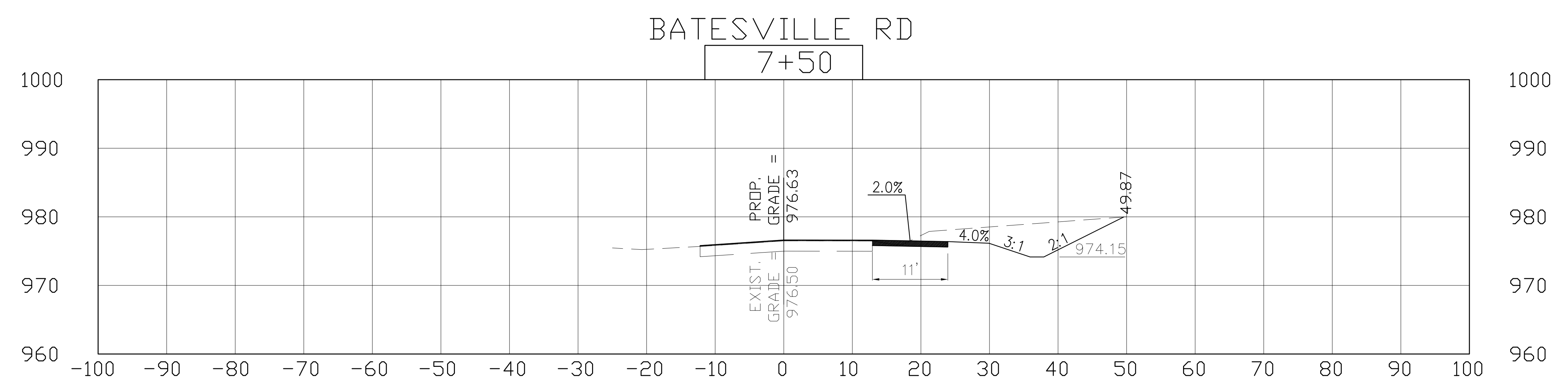
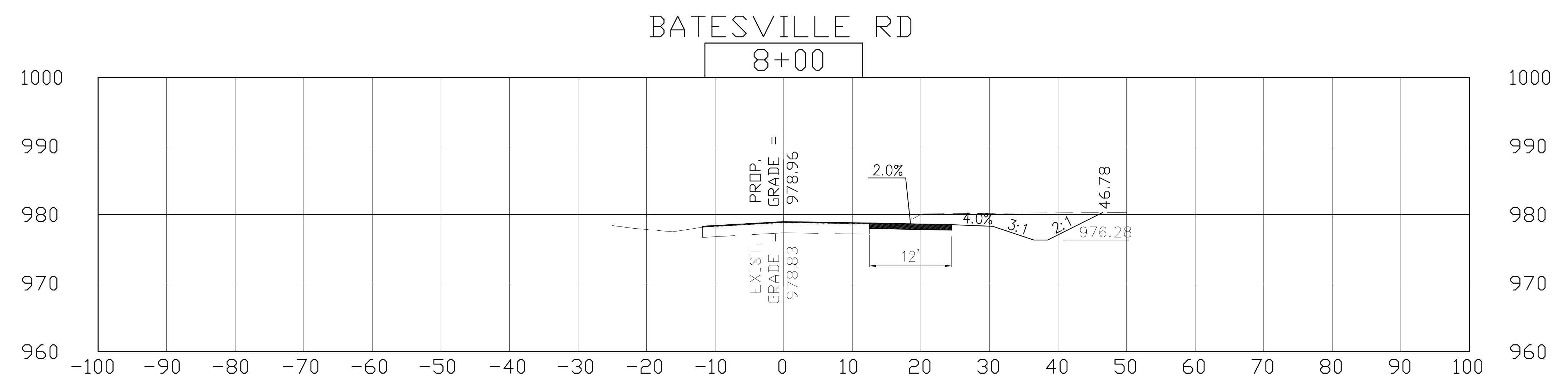
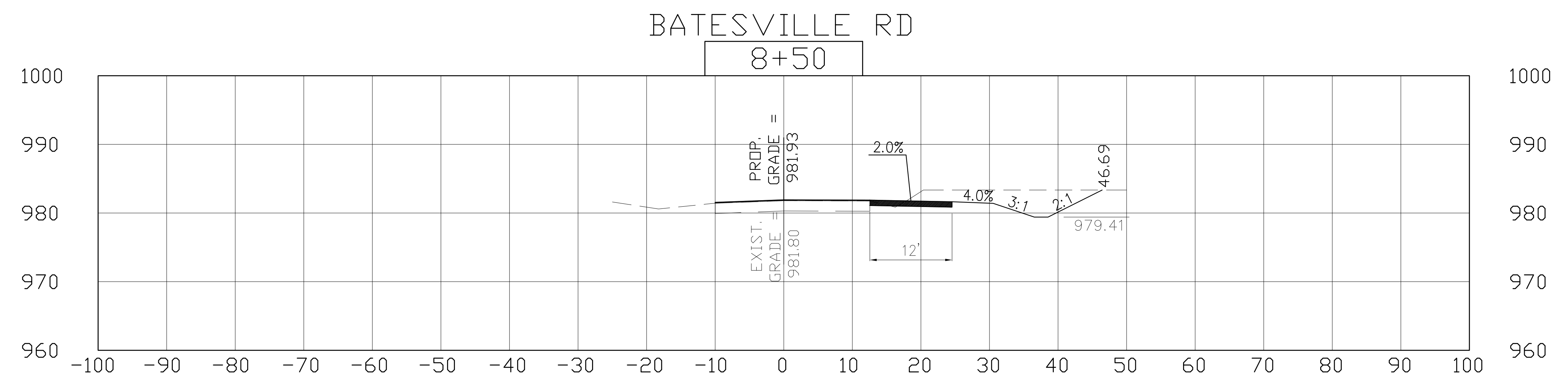


PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

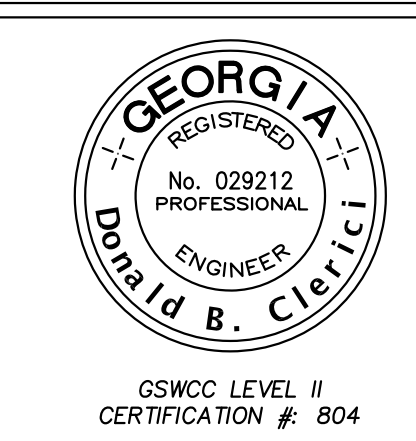
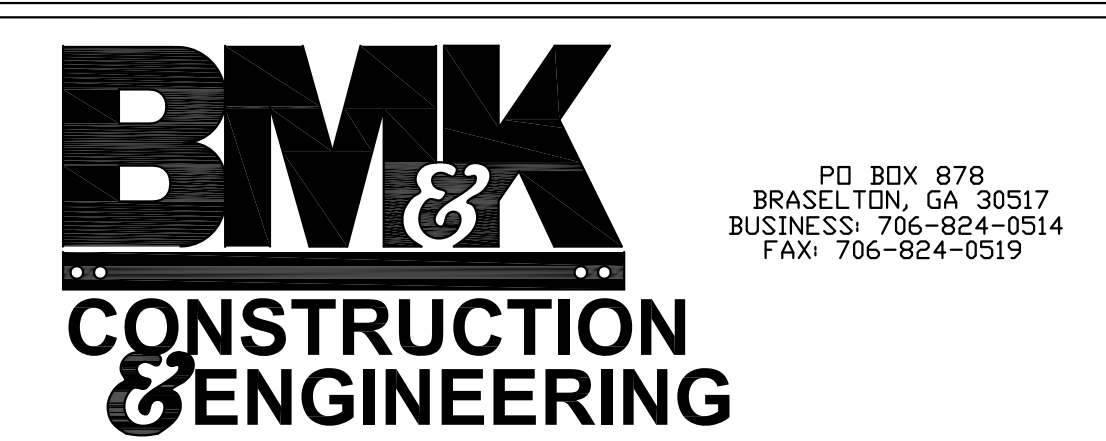
Cherokee County Department of Transportation

CROSS SECTIONS
BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
23-03



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'



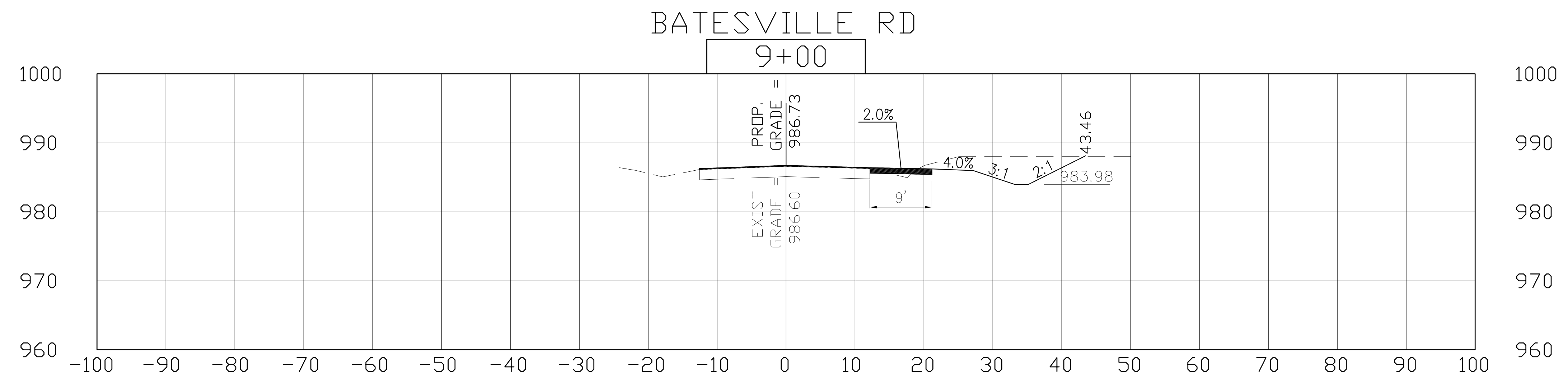
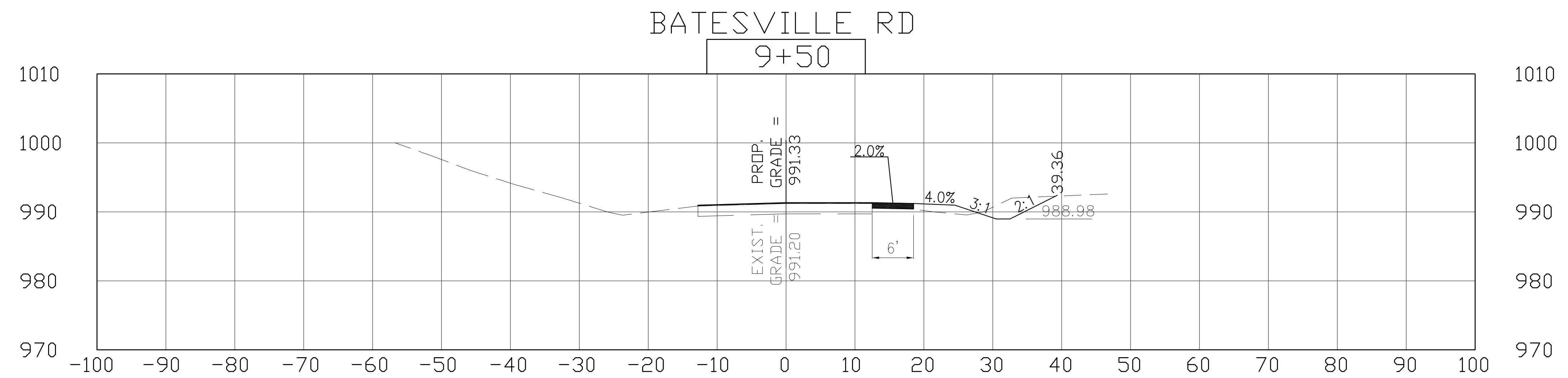
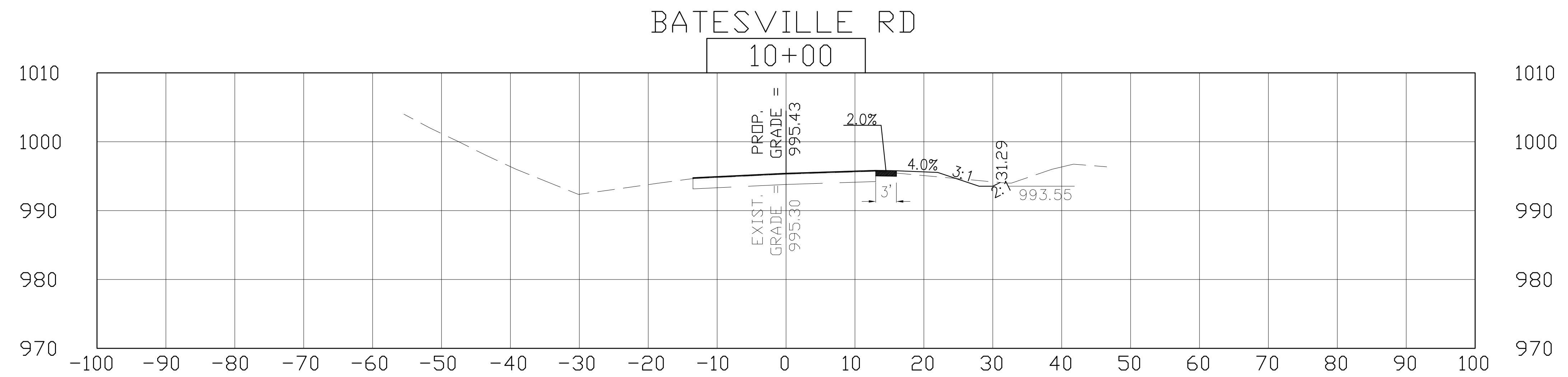
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

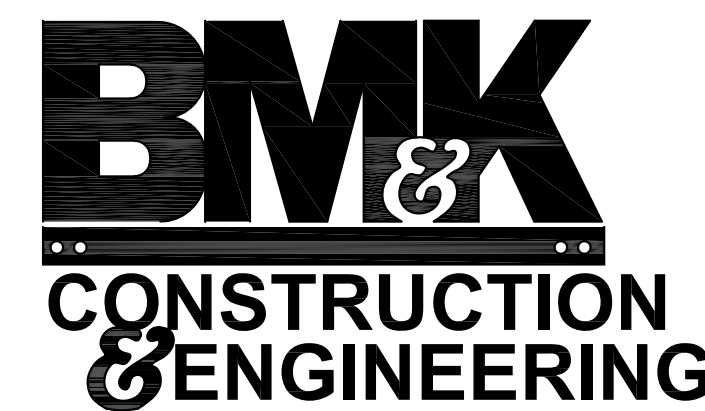
CROSS SECTIONS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 23-04



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'



PO BOX 878
BRASLETEN, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

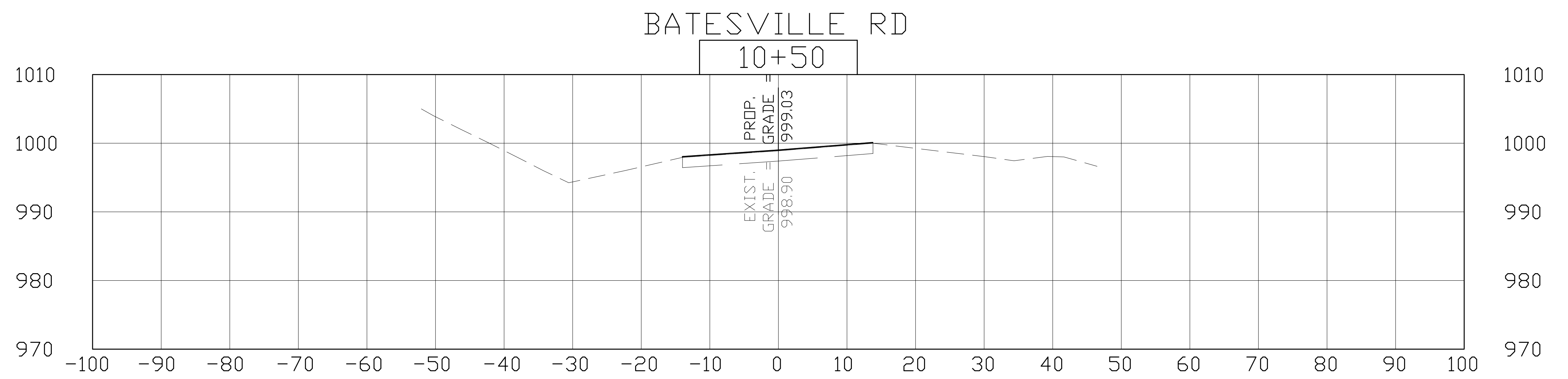
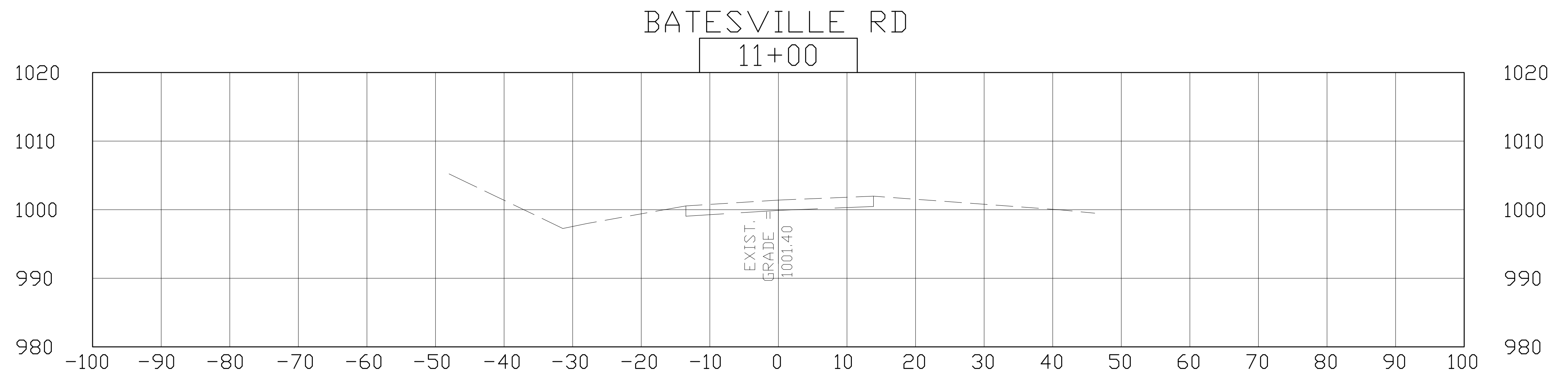
Cherokee County Department of Transportation

CROSS SECTIONS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
23-05

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
CHEROKEE	62095	20	54



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

BMK & CONSTRUCTION & ENGINEERING

PO BOX 878
BRASLETTON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



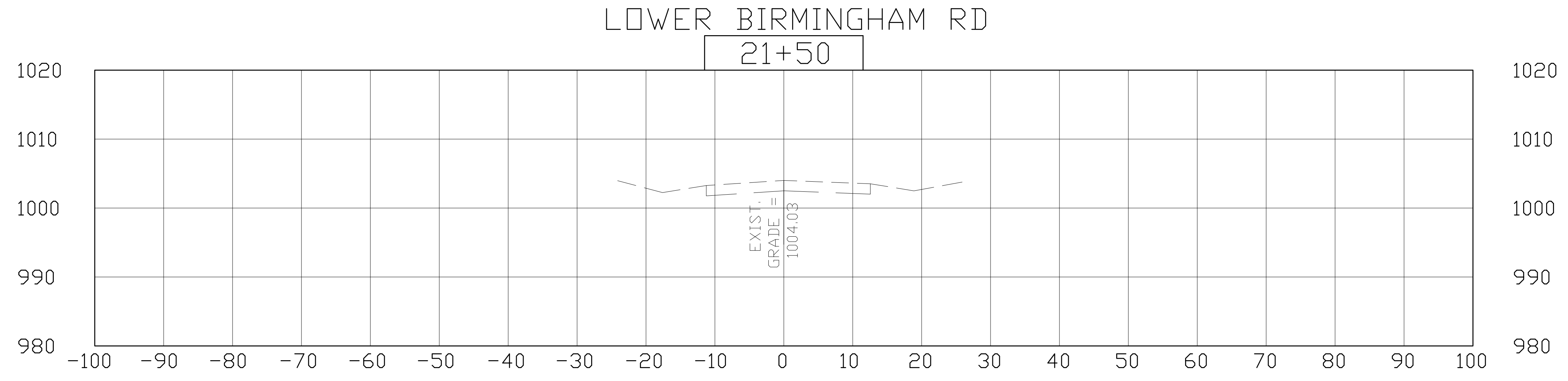
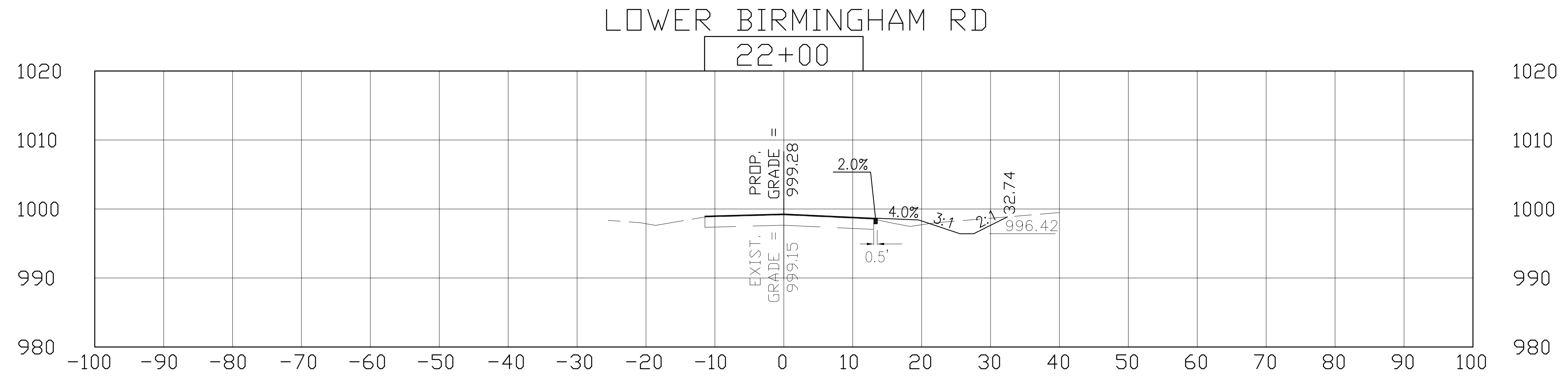
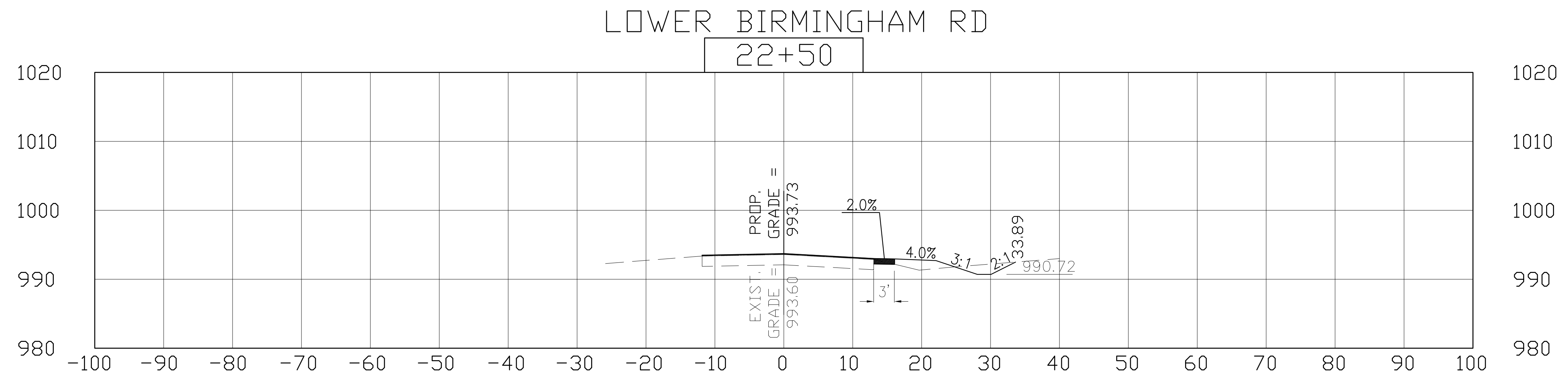
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

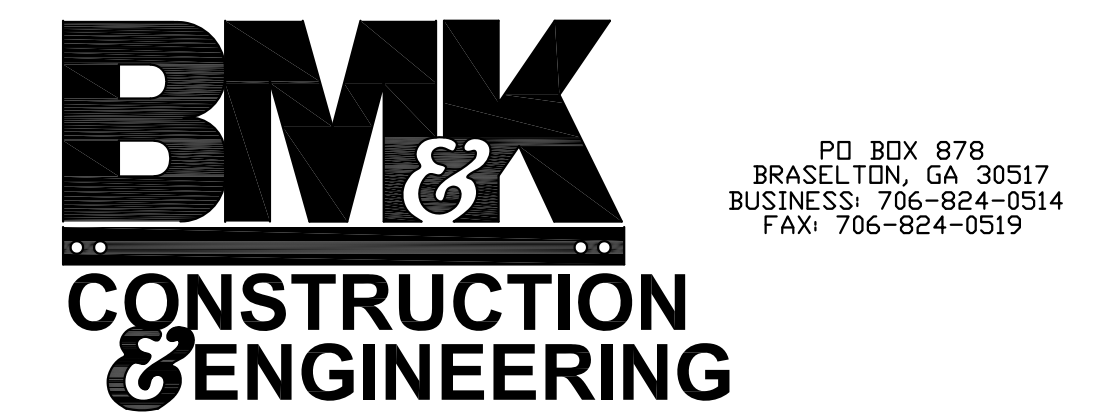
CROSS SECTIONS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
23-06



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'



PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

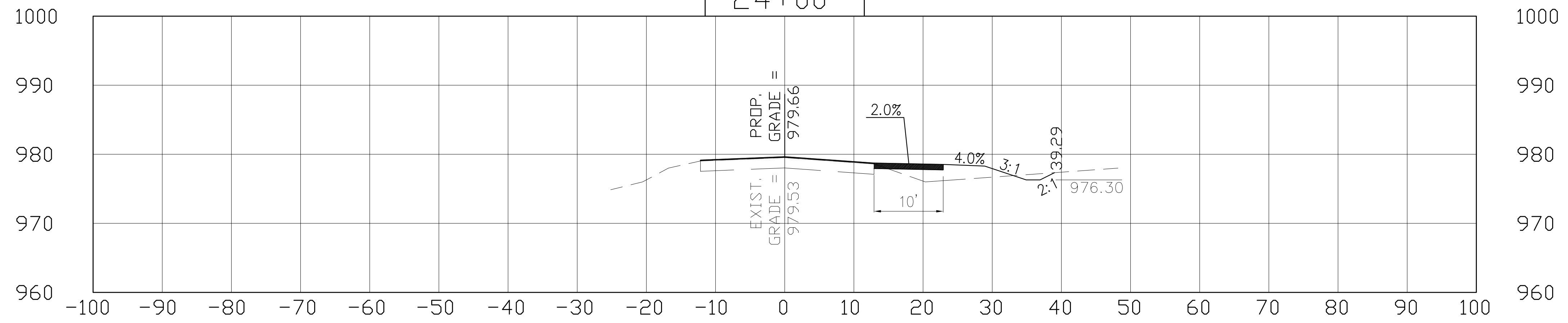
Cherokee County Department of Transportation

CROSS SECTIONS
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
23-07

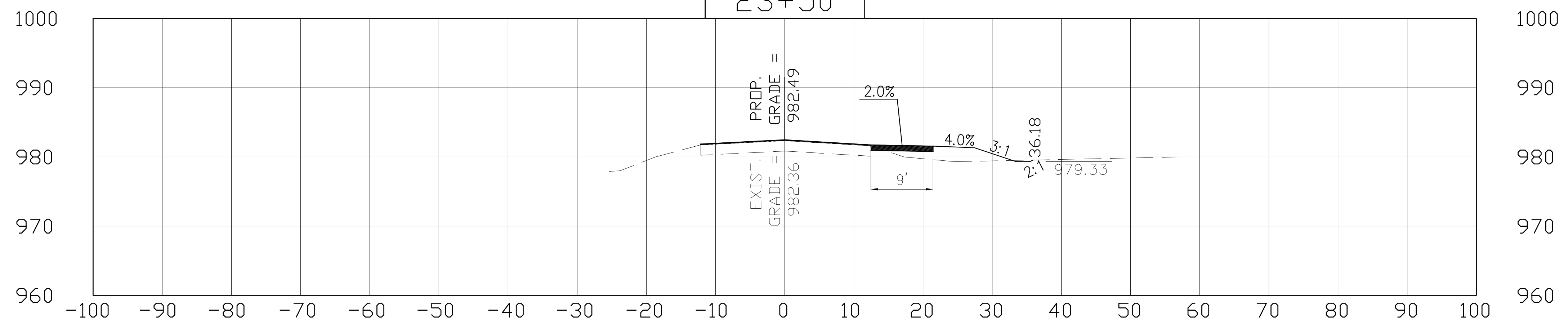
LOWER BIRMINGHAM RD

24+00



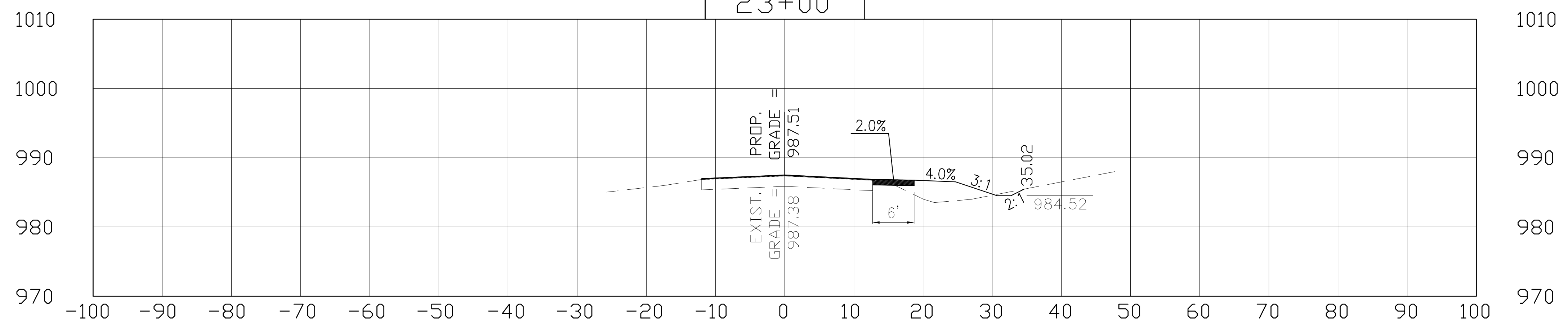
LOWER BIRMINGHAM RD

23+50

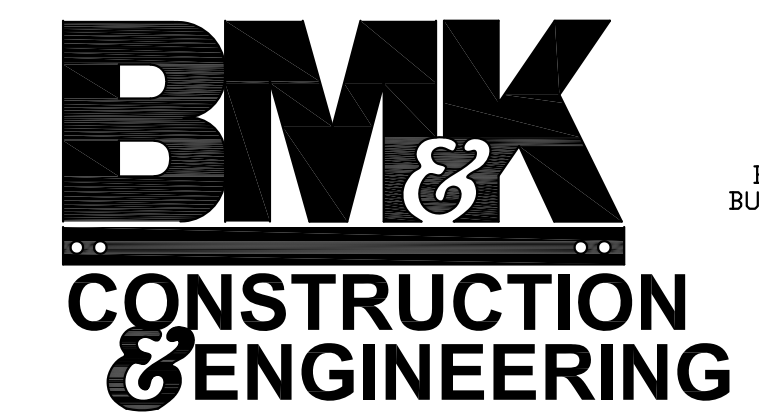


LOWER BIRMINGHAM RD

23+00



SCALE:
 VERTICAL: 1" = 10'
 HORIZONTAL: 1" = 10'



PO BOX 878
 BRASHELTEN, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

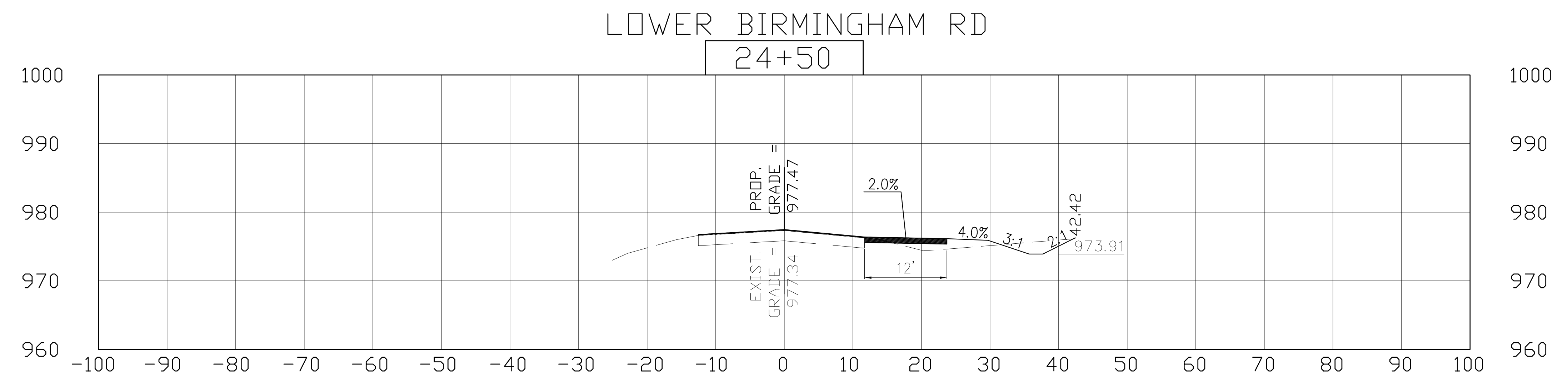
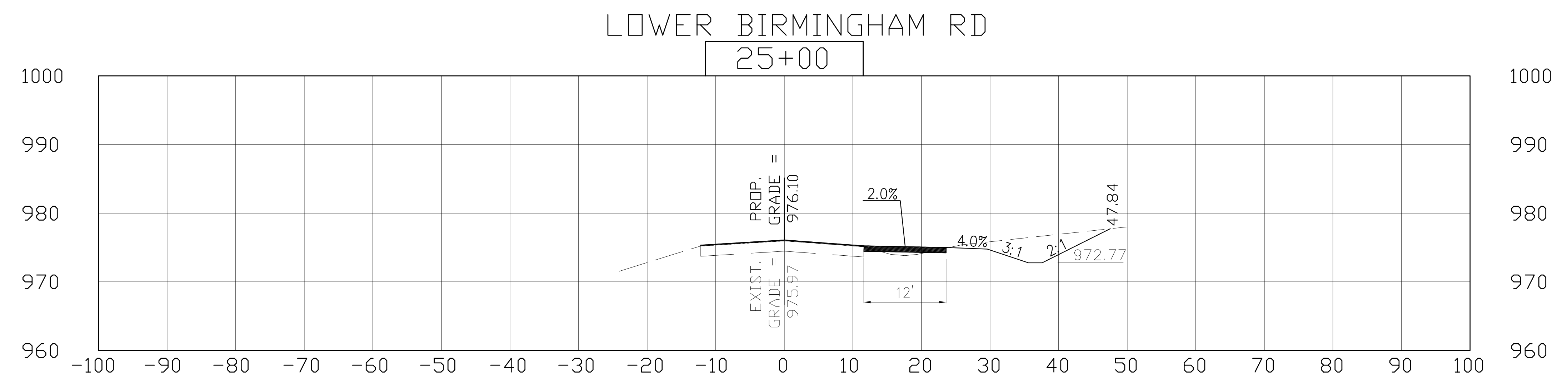
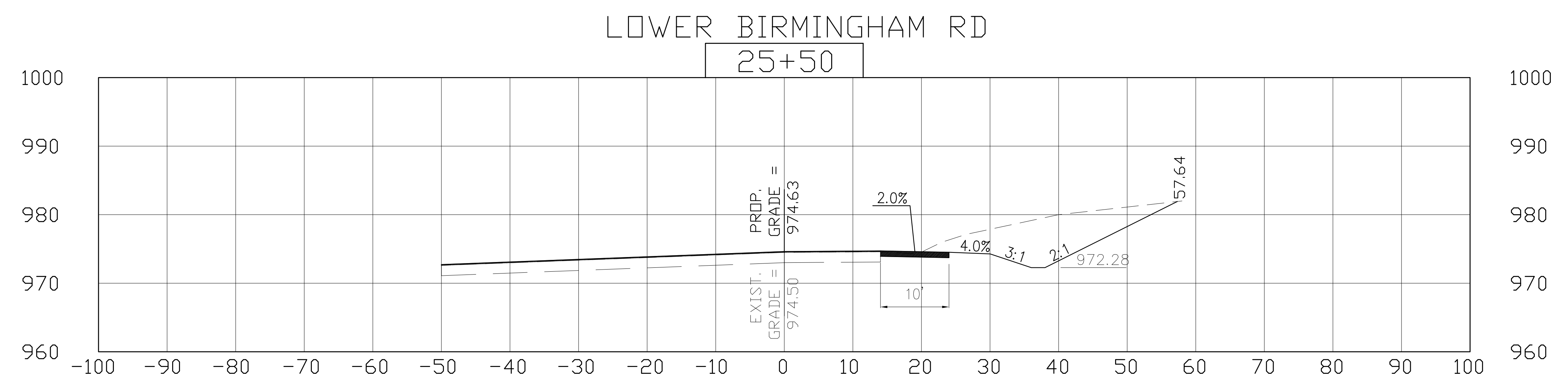
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REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

CROSS SECTIONS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
 23-08



SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

BMK & CONSTRUCTION & ENGINEERING

PO BOX 878
BRASELTON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



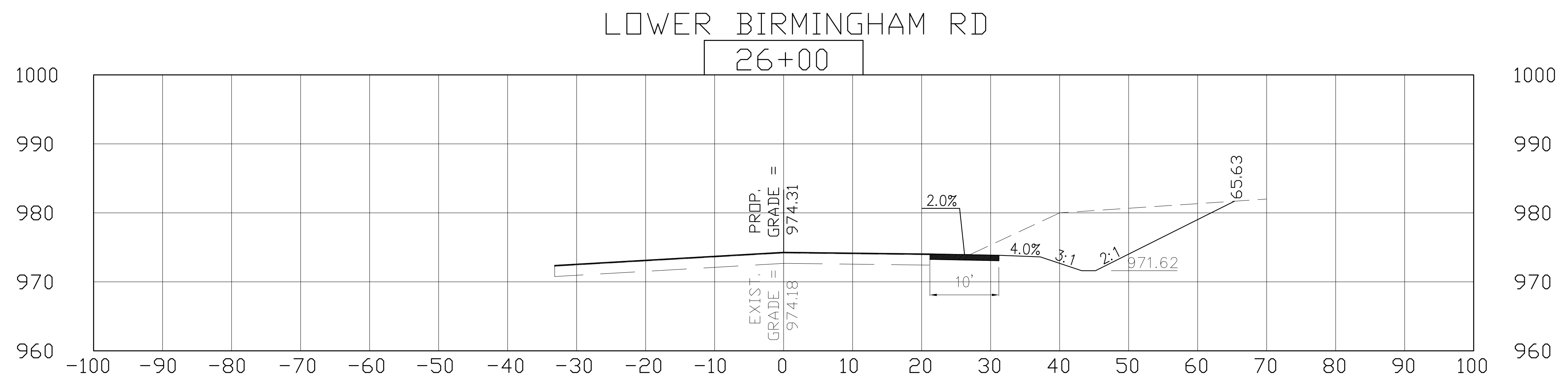
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REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

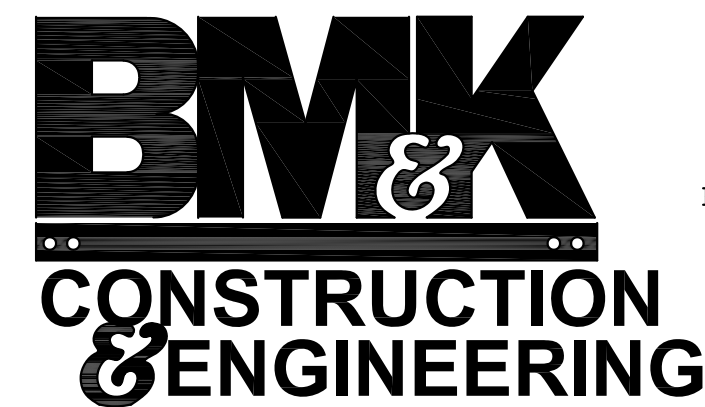
CROSS SECTIONS
BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
23-09

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
CHEROKEE	62095	24	54



SCALE:
 VERTICAL: 1" = 10'
 HORIZONTAL: 1" = 10'



PO BOX 878
 BRASELTON, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

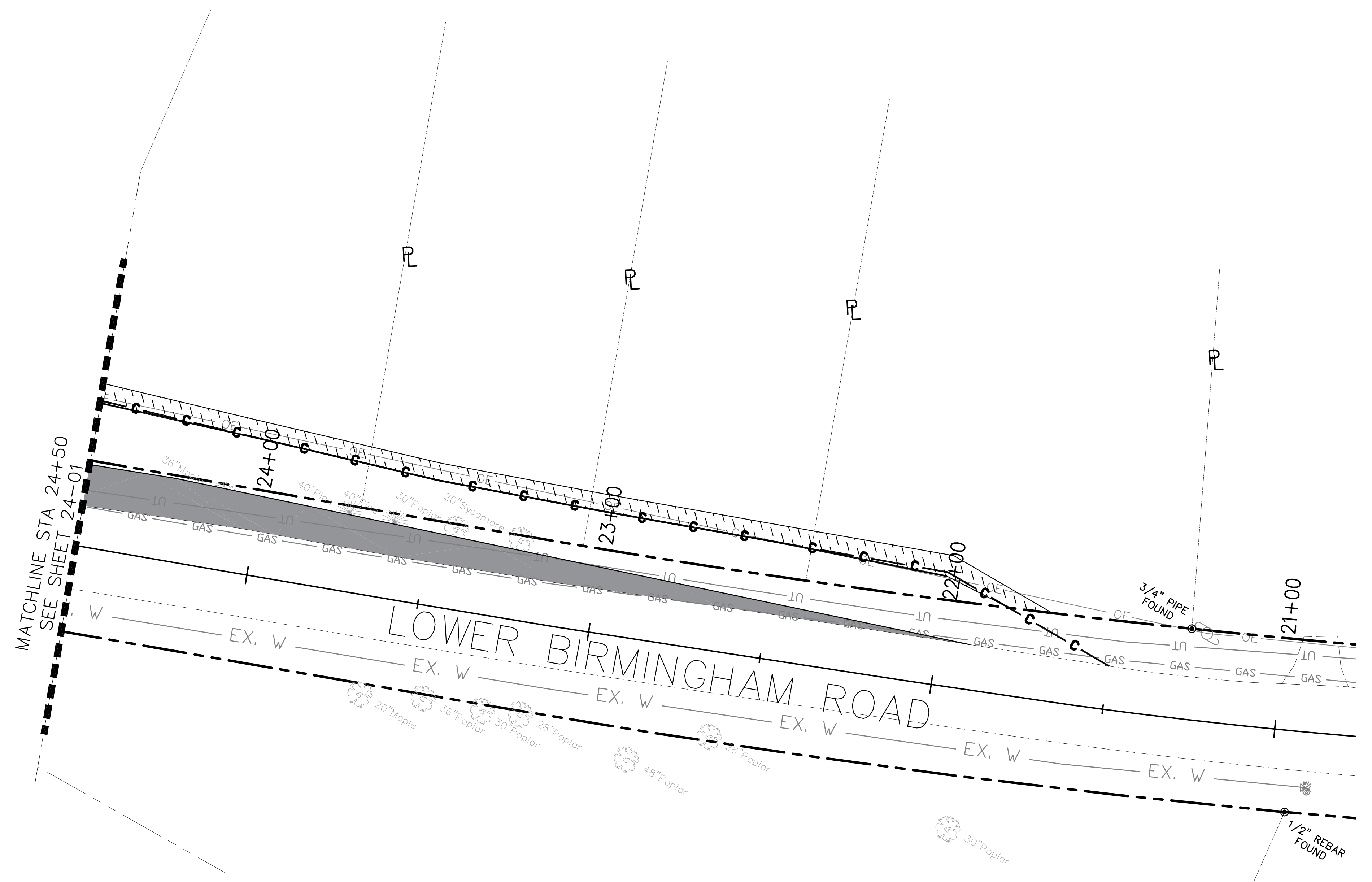
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REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

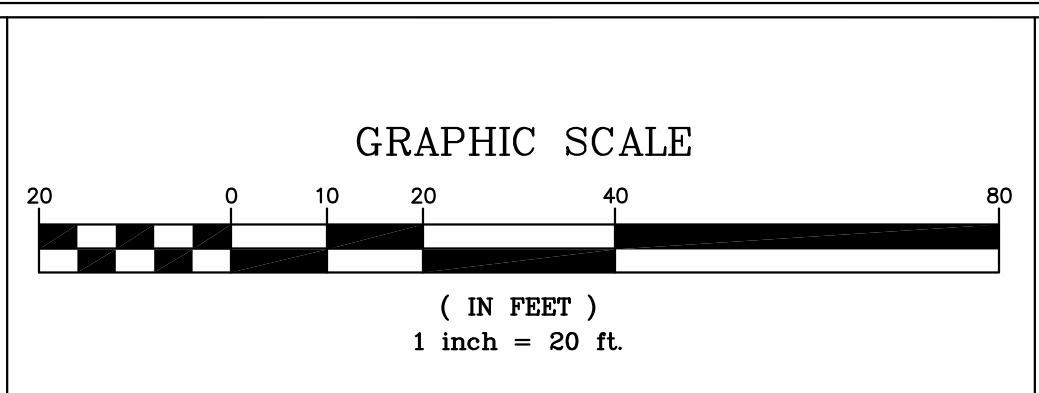
CROSS SECTIONS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
23-10



811 Know what's below.
 Call before you dig.
 Dial 811
 Or Call 800-282-7411



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PO BOX 878
 BRASLETON, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519

REGISTERED PROFESSIONAL ENGINEER
 No. 029212
 David B. Clerici

GSWCC LEVEL II
 CERTIFICATION # 804

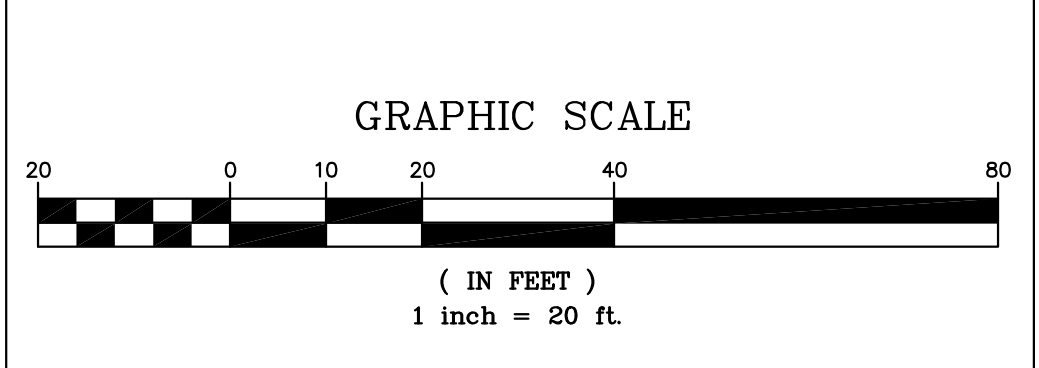
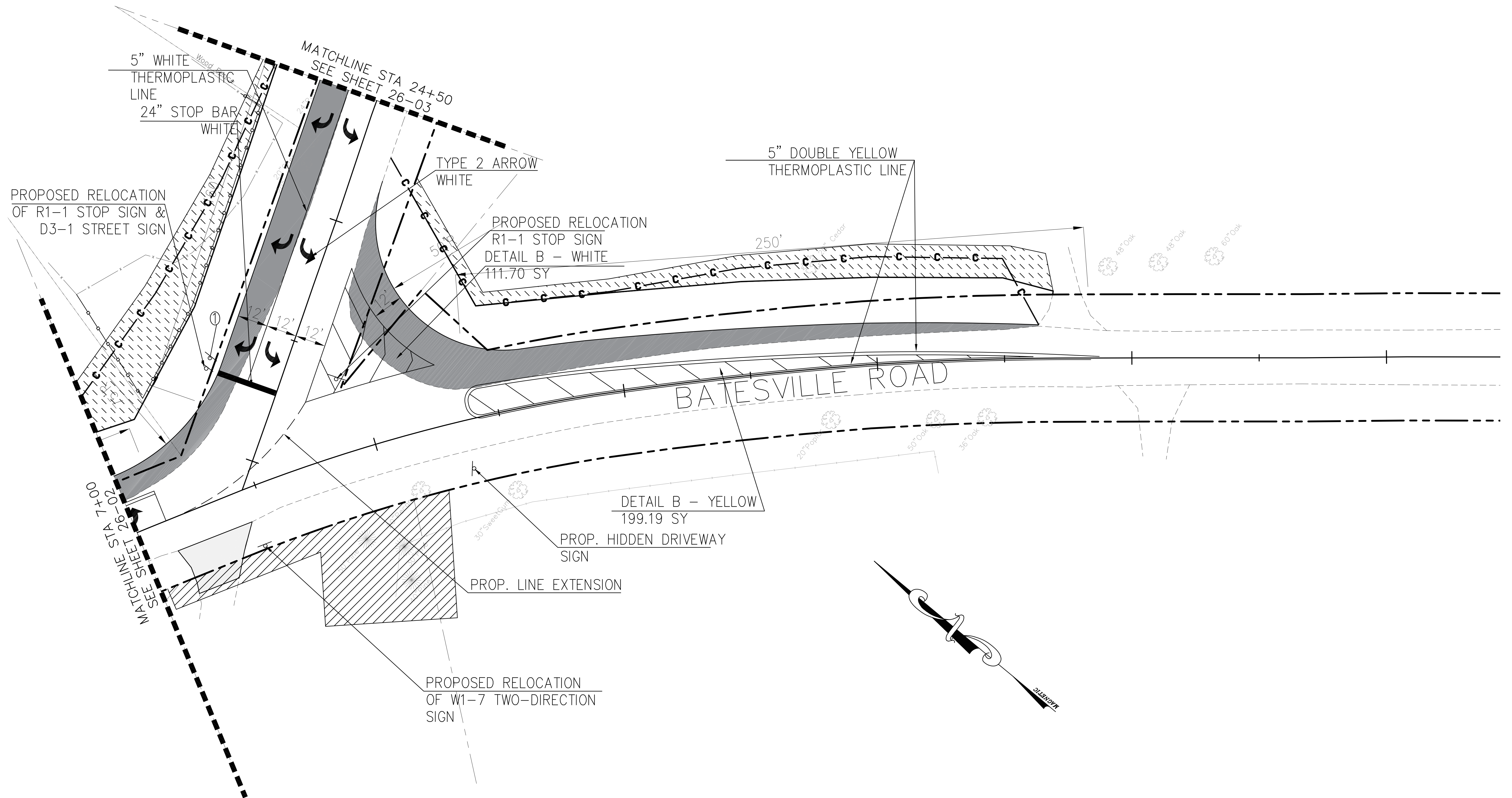
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REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

UTILITY PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 24-03



BMK & CONSTRUCTION & ENGINEERING

PO BOX 878
BRASLETON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



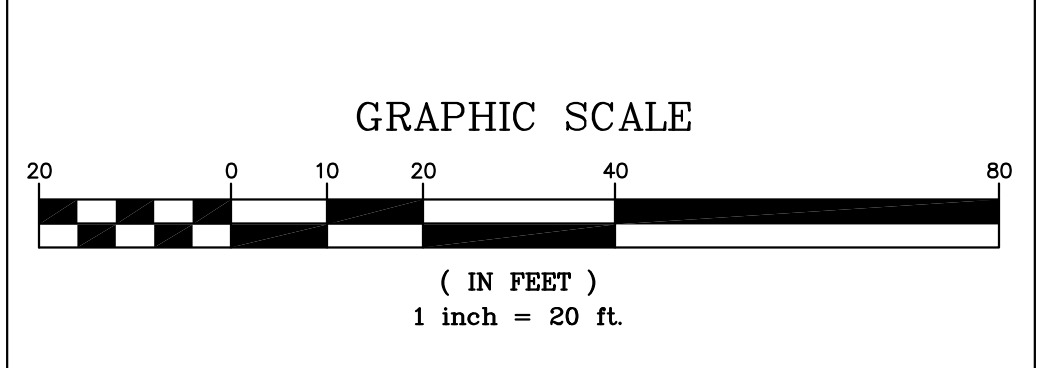
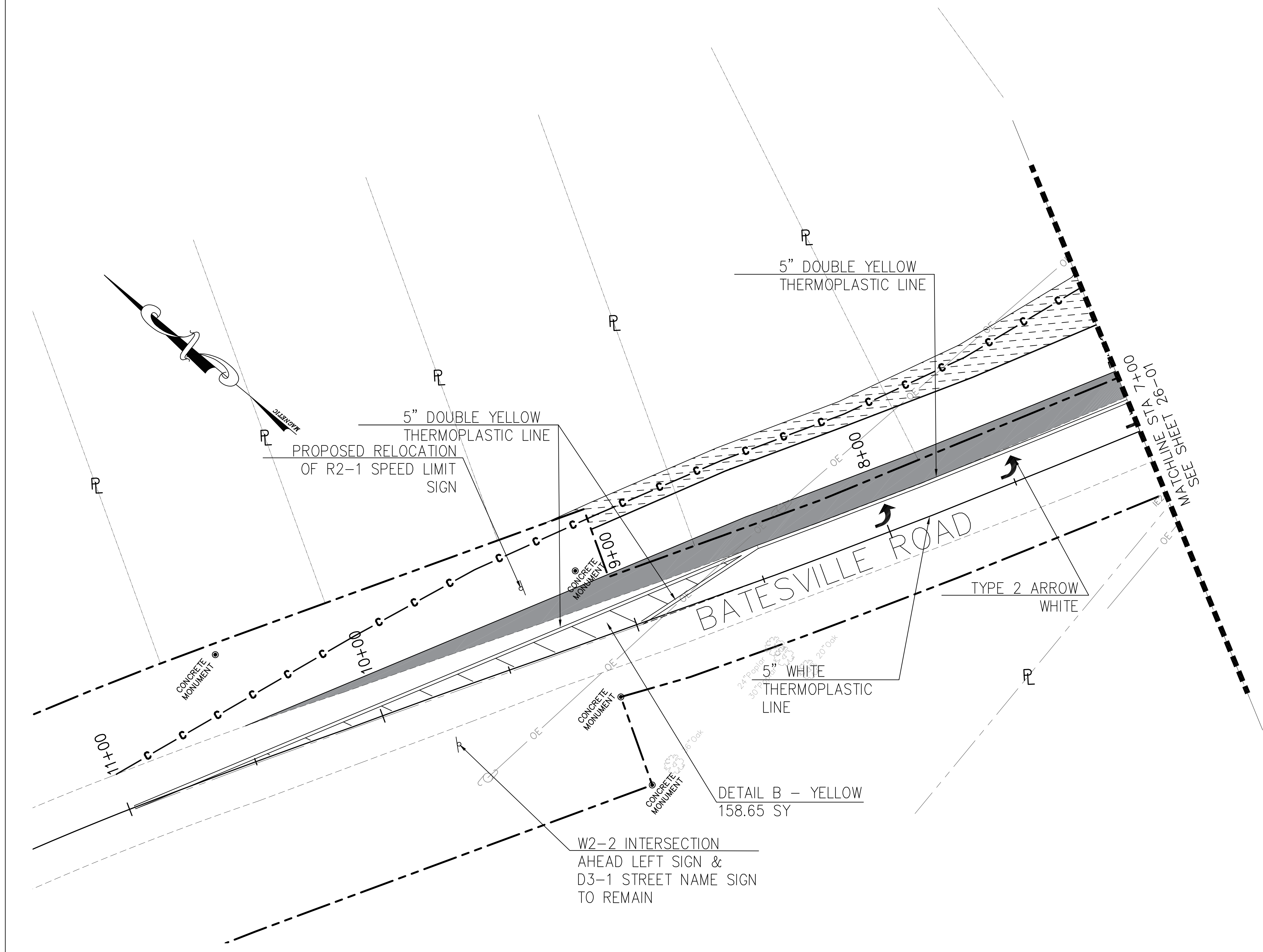
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

SIGNING AND MARKING PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. **26-01**



BMK
CONSTRUCTION & ENGINEERING

PO BOX 878
BRASLETEN, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



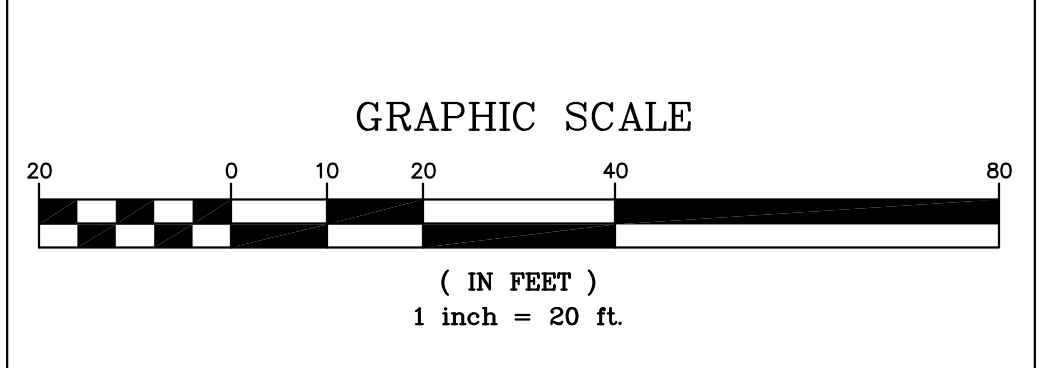
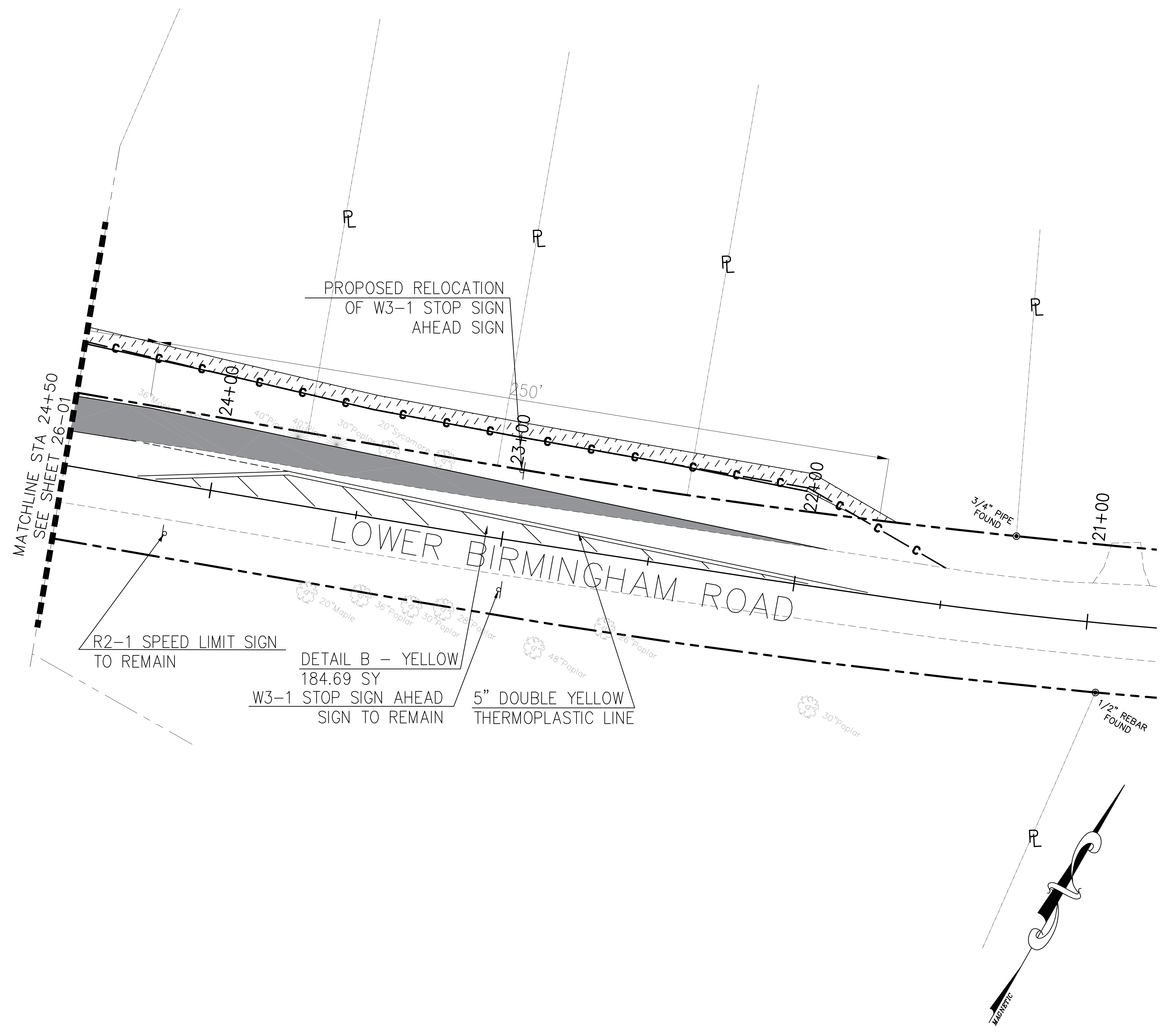
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REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

SIGNING AND MARKING PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
26-02



BMK & ENGINEERING

PO BOX 878
BRASHELTEN, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519

REGISTERED PROFESSIONAL ENGINEER
No. 029212
D. B. Clerici

GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

SIGNING AND MARKING PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

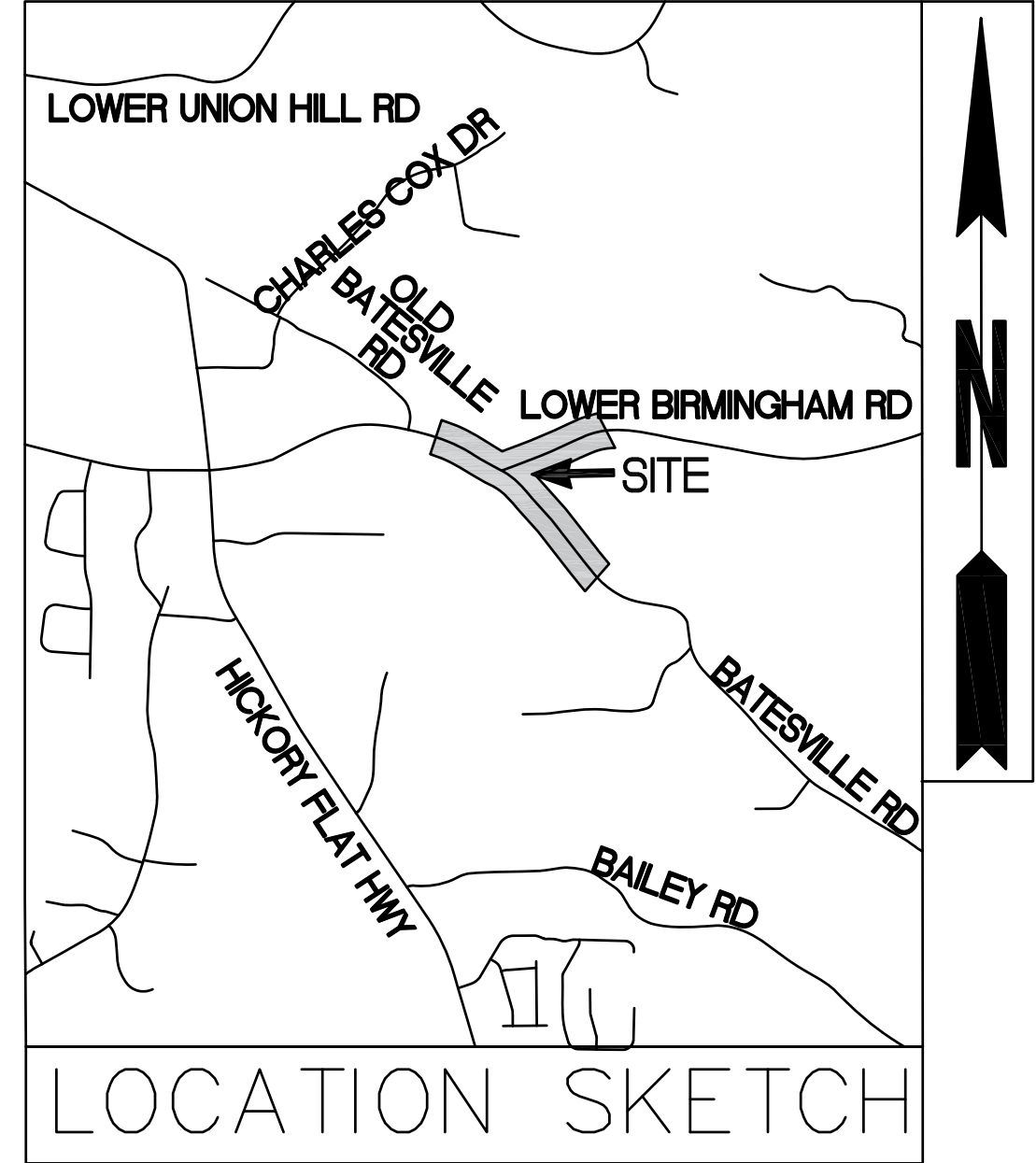
DRAWING NO. 26-03

CHEROKEE COUNTY DEPARTMENT OF TRANSPORTATION

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN FOR PROPOSED INTERSECTION IMPROVEMENTS FOR BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD

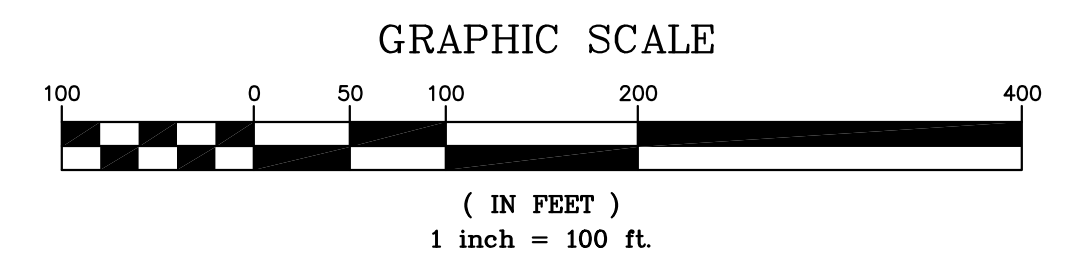
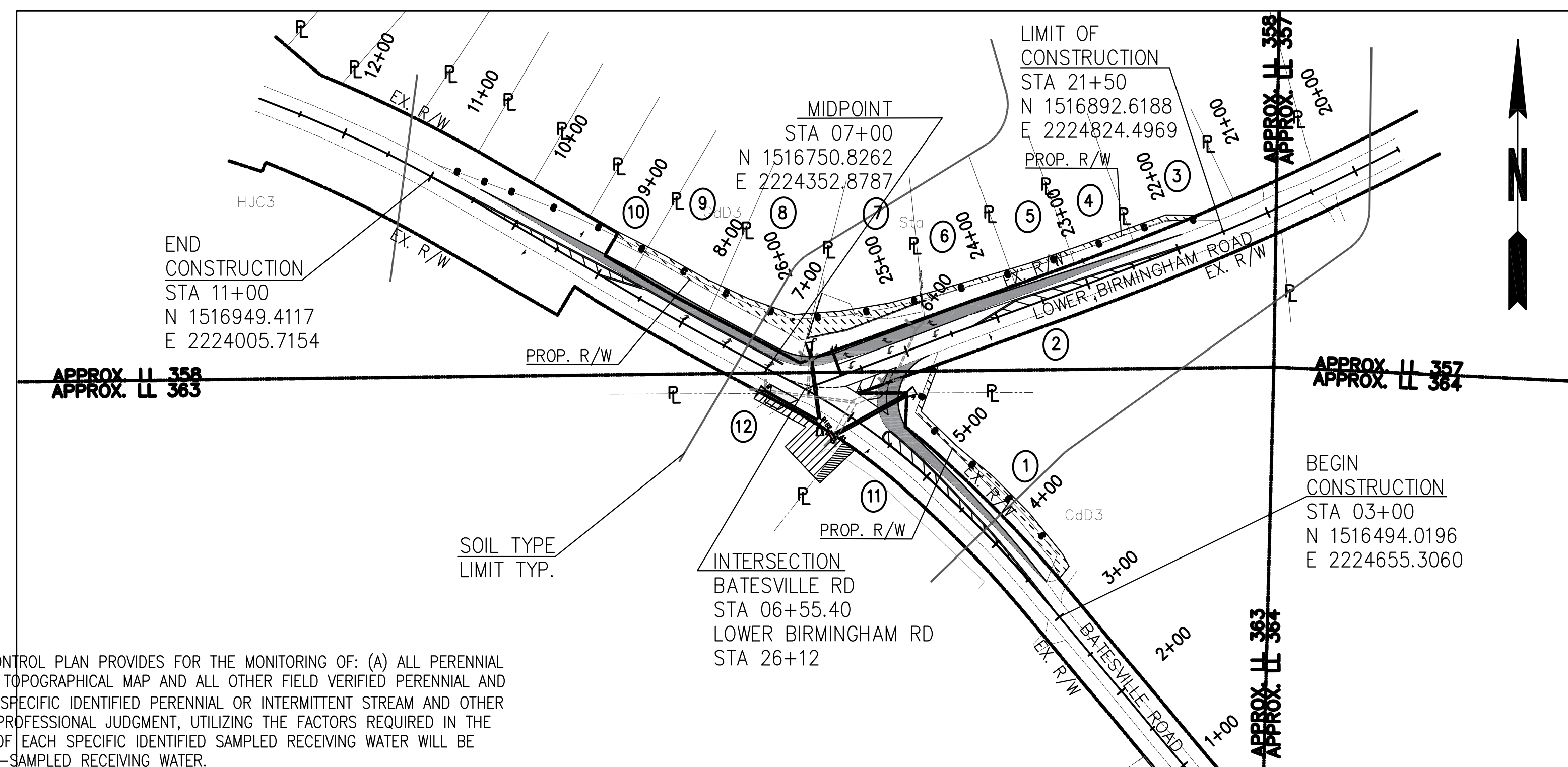
PRIMARY PERMITTEE
CHEROKEE COUNTY
DEPARTMENT OF TRANSPORTATION
1130 BLUFFS PARKWAY
CANTON, GA 30114
PHONE: 678-493-6077

24 HOUR CONTACT
NAME:
PHONE:



BATESVILLE RD
 GPS Location of Project Beginning:
 34.17 N, 84.40 W
 GPS Location of Project Ending:
 34.17 N, 84.41 W

LOWER BIRMINGHAM RD
 GPS Location of Project Beginning:
 34.17 N, 84.40 W
 GPS Location of Project Ending:
 34.17 N, 84.41 W



I CERTIFY UNDER THE PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

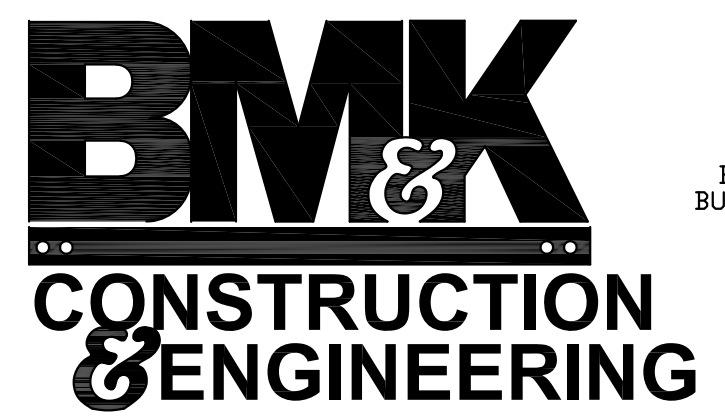
I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHICAL MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

I CERTIFY THAT THIS EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PART IV. GAR 100002.

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

CERTIFIED BY DESIGN PROFESSIONAL _____ DATE _____

PREPARED BY : DON CLERICI



PO BOX 878
 BRASELTON, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL COVER SHEET

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
50-01

CHECKLIST ITEM #2
SEE TITLEBLOCK.

CHECKLIST ITEM #3
LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROL IS:
NAME: GEOFF MORTON
PHONE NUMBER: 678-493-6077

CHECKLIST ITEM #4
PRIMARY PERMITEE INFORMATION:
NAME: CHEROKEE COUNTY
ADDRESS: 1130 BLUFFS PARKWAY, CANTON, GA
PHONE NUMBER: 678-493-6077

CHECKLIST ITEM #5
TOTAL SITE AREA - 1.78 +/- ACRES
TOTAL DISTURBED AREA - 1.0 +/- ACRES
TOTAL NON PAVEMENT DISTURBED AREA - 1.0 ACRES

CHECKLIST ITEM #8
DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY IS AS FOLLOWS:
THE PROPOSED PROJECT CONSISTS OF ADDING A LEFT TURN LANE AT THE INTERSECTION OF BATESVILLE ROAD AND LOWER BIRMINGHAM.

CHECKLIST ITEM #10
THE PROJECT RECEIVING WATERS IS UNNAMED TRIBUTARY OF MILL CREEK
THE SENSITIVE AREAS ADJACENT TO PROJECT THAT MAY BE AFFECTED ARE ADJACENT RESIDENTIAL AREAS.

CHECKLIST ITEM #11
I CERTIFY UNDER THE PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

CERTIFIED BY DESIGN PROFESSIONAL _____
DATE

CHECKLIST ITEM #12
I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

CERTIFIED BY DESIGN PROFESSIONAL _____
DATE

CHECKLIST ITEM #13
I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR REPRESENTATIVE SAMPLING AS STATED ON PAGE 26 OF PERMIT AS APPLICABLE.

CERTIFIED BY DESIGN PROFESSIONAL _____
DATE

CHECKLIST ITEM #14
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

CHECKLIST ITEM #15
NON EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN 25 OR 50 FEET OF UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL WETLAND MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

CHECKLIST ITEM #16
THERE IS NO BUFFER ENCROACHMENT.

CHECKLIST ITEM #17
AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY PROFESSIONAL ENGINEER.

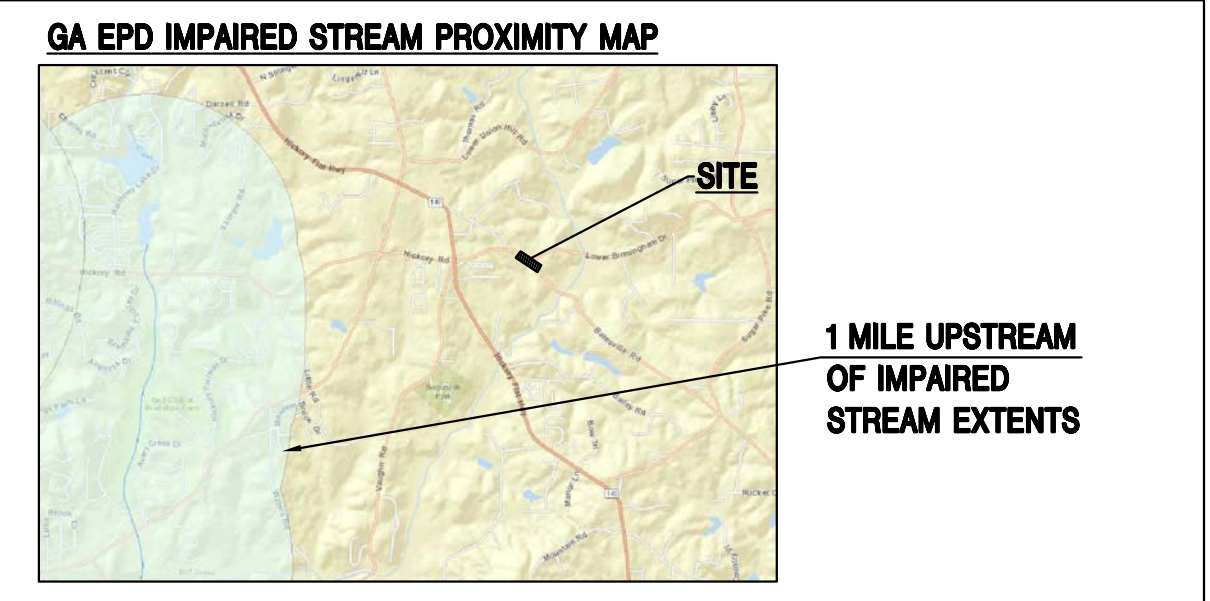
CHECKLIST ITEM #18
WASTE MATERIALS SHALL NOT BE DISCHARGED TO THE WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

CHECKLIST ITEM #19
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

CHECKLIST ITEM #20
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

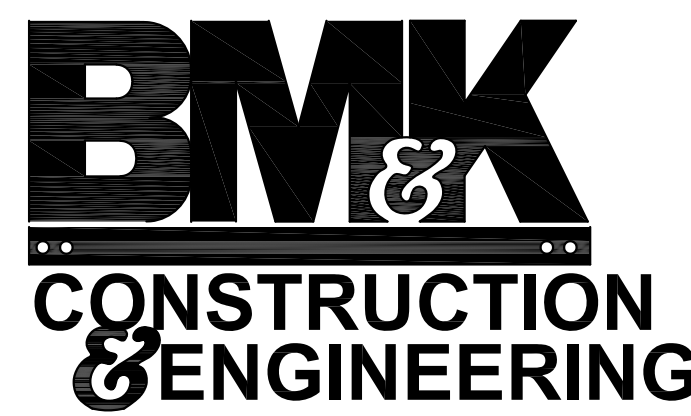
CHECKLIST ITEM #21
ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MUCH OR TEMPORARY SEEDING.

CHECKLIST ITEM #22
THIS PROJECT'S CONSTRUCTION ACTIVITY DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT AND MUST/MUST NOT COMPLY WITH PART III.C OF THE PERMIT. SEE THE LIST BELOW FOR ALL BMP'S THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGES TO THE IMPAIRED STREAM SEGMENT.



CHECKLIST ITEM #23
A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS NOT BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE) AT LEAST 6 MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.

CHECKLIST ITEM #24
SEE SHEETS 52-03, 52-04 FOR BMP'S FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. THE FOLLOWING BMP'S WILL BE IMPLEMENTED:
1. CONTAIN ALL WASHOUT WATER PER CONCRETE WASHOUT DETAIL.
2. USE MIN. OF WATER TO WASH TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES.
3. REMOVE ANY CONCRETE SEDIMENT FROM THE SURROUNDING WASH AREA BEFORE IT HARDENS.
4. REMOVE ALL CONCRETE RESIDU FROM THE DESIGNATED AREA ONCE IT HAPPENED.



PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation
EROSION CONTROL NOTES
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT
DRAWING NO. 51-01

CHECKLIST ITEM #25
BMP'S FOR REMEDIATION OF PETROLEUM SPILLS AND LEAKS

1. CONTAINERS FOR SUCH PRODUCTS AS FUEL, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON SITE VEHICLES AND MACHINERY. EQUIPMENT MAINTENANCE LOCATIONS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS FUELS AND DISPOSAL IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

2. ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORM SEWER COLLECTION SYSTEM. EXCESS PRODUCT AND MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO OTHER MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS.

3. IF EQUIPMENT IS WASHED, USE ONLY PLAIN WATER AND NO DEGREASERS OR DETERGENTS.

4. MAINTAIN A SPILL KIT OR SUITABLE TOOLS AND MATERIALS TO CONTAIN AND CLEANUP SPILLS AND LEAKS.

5. PLACE TRASH AND GARBAGE IN SECURED CONTAINERS TO KEEP IT FROM GETTING INTO STREAMS, DITCHES LAKES AND PONDS.

6. SPILL CLEANUP AND CONTROL PRACTICES: LOCAL, STATE AND MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT MADE NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON WATER SURFACE), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS 1-800-424-8802. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILL LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLON OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSE PROFESSIONAL.

7. FERTILIZER/HERBICIDES: THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA. ANY STORAGE OF THESE ATERIALSL WILL BE UNDER ROOF IN SEALED CONTAINERS.

8. BUILDING MATERIALS: NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

9. HAZARDOUS WASTES: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTILL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER, IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

10. SANITARY WASTE: A MIN. OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY 10 WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY UNITS MUST BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

CHECKLIST ITEM #26

MEASURES INSTALLED DURING CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER THE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED ARE AS FOLLOWS:

1. PERMANENT GRASSING
2. CRUSHED STONE AT STORM OUTLETS

CHECKLIST ITEM #27

1. CONTAINERS FOR SUCH PRODUCTS AS FUEL, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON SITE VEHICLES AND MACHINERY. EQUIPMENT MAINTENANCE LOCATIONS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS FUELS AND DISPOSAL IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

2. PAINT/FINISHES/SOLVENTS: ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORM SEWER COLLECTION SYSTEM. EXCESS PRODUCT AND MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO OTHER MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS.

3. NO CONCRETE TRUCKS WILL BE ALLOWED TO WAS OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER OUTSIDE.

4. FERTILIZER/HERBICIDES: THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

8. BUILDING MATERIALS: NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

CHECKLIST ITEM #28 CONSTRUCTION SCHEDULE

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INSTALLATION OF INITIAL EROSION CONTROL MEASURES AND TREE PROTECTION FENCE												
DEMOLITION OPERATIONS												
CLEARING AND GRUBBING												
GRADING OPERATION												
UTILITY INSTALLATION												
TEMPORARY MULCHING/GRASSING												
BUILDING CONSTRUCTION												
PAVEMENT INSTALLATION												
MAINTENANCE OF ALL EROSION CONTROL MEASURES												
FINAL GRASSING / STABILIZATION												
BMP REMOVAL												

CHECKLIST ITEM #29

INSPECTIONS AND RECORD KEEPING

A. PERMITTEE REQUIREMENTS:

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

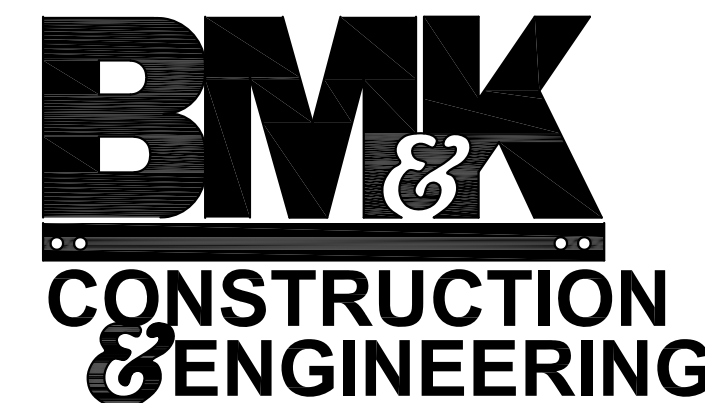
(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

Erosion Control Notes:

1. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QPL 36.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CH 6, SECTION III "VEGETATION PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 7 DAYS.
10. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY TEH GOVERNING JURISDICTION SITE INSPECTORS.
12. CUT AND FILL SLOPES NOT TO EXCEED 2H: 1V.
13. EROSION CONTROL MEASURES TO BE INSPECTED DAILY..
14. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
15. IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT 10' OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
16. DISTRIBUTED AREAS LEFT IDLE FOR 7 DAYS AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO PERMANENT VEGETATION(DS2). ALL AREAS TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION(DS3) IMMEDIATELY UPON COMPLETION.
17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
18. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEPLOYED.
19. AN NOI IS REQUIRED FOR THIS PROJECT.



PO BOX 878
BRASSETON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL NOTES

BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
51-02

CHECKLIST ITEM #30
SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS

SAMPLING FREQUENCY.

(1). THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3). SAMPLING BY THE PERMITEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

C. THE DATE(S) ANALYSES WERE PERFORMED;

D. THE TIME(S) ANALYSES WERE INITIATED;

E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;

H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND

I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

CHECKLIST ITEM #31
RETENTION OF RECORDS

1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;

C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;

F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITEE.

CHECKLIST ITEM #32
ANALYTICAL METHODS USED TO COLLECT AND ANALYZE SAMPLES FROM EACH LOCATION

SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E

C. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

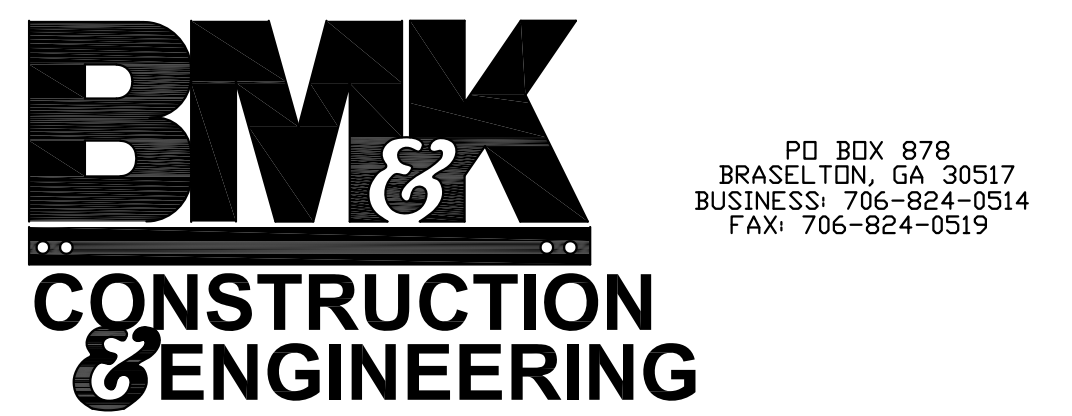
(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G). PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.0.3. OR 111.0.4., WHICHEVER IS APPLICABLE.



PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL NOTES

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 51-03

CHECKLIST ITEM #33

NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES WATERS SUPPORTING WARM WATER FISHERIES SURFACE WATER DRAINAGE AREA – SQUARE MILES

	0–4.99	5–9.99	10–24.99	25–49.99	50–99.99
SITE SIZE, ACRES	75	150	200	400	750
1.00–10	50	100	100	200	300
10.01–25	50	50	100	100	200
25.01–50	50	50	50	100	100
50.01–100	50	50	50	50	50
100.01+					

CHECKLIST ITEM #34

ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT, AND OTHER WATER BODIES INTO WHICH STORM WATER DISCHARGED ARE SHOWN ON SHEET 55–01.

CHECKLIST ITEM #35

CLEARING PHASE

- PRIOR TO THE LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES
- NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FT. OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
- THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON PLANS.
- THE CONSTRUCTION EXIT CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAY ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF ASHTO M266–96, SECTION 7.3 SEPERATION REQUIREMENTS. CONSTRUCTION EXIT MAY NEED TO BE TOP DRESSED WITH 1–3" OF STONE PERIODICALLY TO PREVENT TRACKING OF MUD INTO R/W. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
- STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVED THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH DESIGN PROFESSIONAL.
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.
- THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLANS WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
- ADDITIONAL SILT FENCE BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171– TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARDS SPECIFICATIONS, 1983 EDITION.

- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. ALL DISTURBED AREA LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ONSITE INSPECTOR OR DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER.

GRADING PHASE

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION AREA DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FT. OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE/TOP OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
- ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10 FT. OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
- TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCKPILE AREAS. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
- STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
- STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- MULCH OR TEMPORARY VEGETATION SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT CLEARING AND TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT.
- EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAD REACHED 1/2 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1–3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS. NOTE: STOP WORK ORDER.
- ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

FINAL PHASE

- MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.
- AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.
- ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRAD IS ACHIEVED BEHIND CURBS.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE DESIGN PROFESSIONAL.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

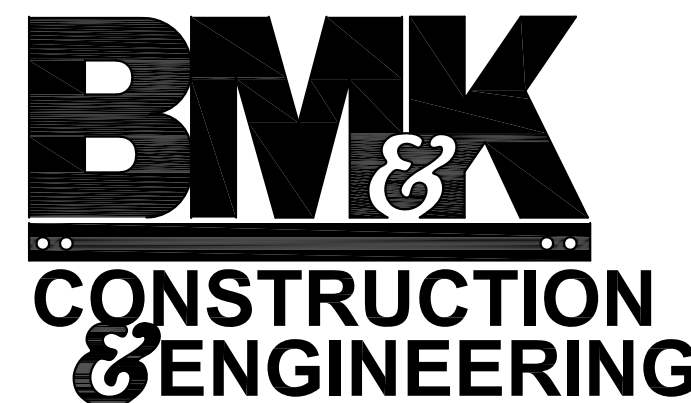
CHECKLIST ITEM #38

THIS PROJECT DOES NOT USE ALTERNATIVE BMP'S.

CHECKLIST ITEM #44

PROJECT SITE	
YEAR	PRE-CONSTRUCTION POST-CONSTRUCTION
2	
5	
10	
25	
50	
100	

APPENDIX B RATIONALE FOR OUTFALL SAMPLING POINTS:
Sampling Location #1: Station 06+10.22, Offset Approx. 41.87' LEFT
Type: Outfall from drainage pipe
Waters supporting warm water fisheries
Site size: 1.78 acres
Surface water drainage area: <5 square miles
NTU value: 75



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FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED

REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL NOTES

BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING NO.
51-04

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: _____
Project Name: Batesville Rd Intersection **Address:** Cherokee County
City/County: Cherokee County **Date on Plans:** _____

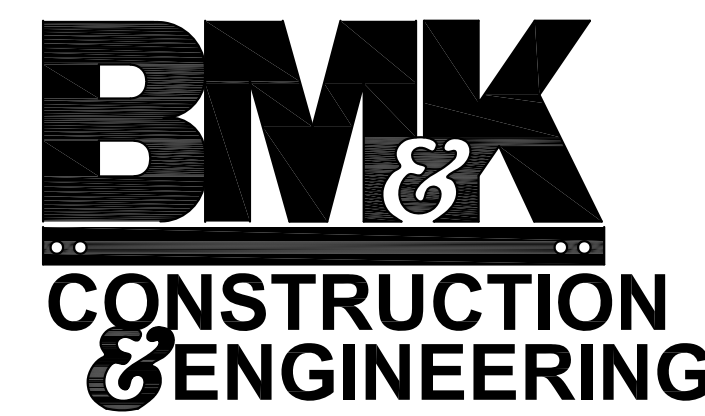
Plan Page #	Included Y/N
<input type="checkbox"/>	<input type="checkbox"/>

TO BE SHOWN ON ES&PC PLAN

- The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- Provide the name, address and phone number of primary permittee.
- Note total and disturbed acreage of the project or phase under construction.
- Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
- Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- Description of the nature of construction activity.
- Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
- Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
- Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
- Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation."
- Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of westered vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
- Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
- Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

- | | | | | | | |
|--------------------------------|-------------------------------------|---|-------------------|-------------------------------------|-------------------|-----------------------------|
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> N | 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> N | 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 25 Provide BMPs for the remediation of all petroleum spills and leaks. | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 27 Description of the practices that will be used to reduce the pollutants in storm water discharges." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 29 Provide complete requirements of inspections and record keeping by the primary permittee." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 30 Provide complete requirements of sampling frequency and reporting of sampling results." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 31 Provide complete details for retention of records as per Part IV.F. of the permit." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 32 Description of analytical methods to be used to collect and analyze the samples from each location." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 33 Appendix B rationale for NTU values at all outfall sampling points where applicable." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable." | | | | |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 35 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase." | | | | |
| <input type="checkbox"/> ALL | <input type="checkbox"/> Y | 36 Graphic scale and North arrow. | | | | |
| <input type="checkbox"/> ALL | <input type="checkbox"/> Y | 37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
<table border="1" style="margin-left: 20px;"> <tr> <td>Existing Contours</td> <td>USGS 1": 2000' Topographical Sheets</td> </tr> <tr> <td>Proposed Contours</td> <td>1": 400' Centerline Profile</td> </tr> </table> | Existing Contours | USGS 1": 2000' Topographical Sheets | Proposed Contours | 1": 400' Centerline Profile |
| Existing Contours | USGS 1": 2000' Topographical Sheets | | | | | |
| Proposed Contours | 1": 400' Centerline Profile | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> N/A | 38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org. | | | | |

- | | | |
|--------------------------------|------------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> N/A | 39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition." |
| <input type="checkbox"/> | <input type="checkbox"/> N/A | 40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. |
| <input type="checkbox"/> | <input type="checkbox"/> N/A | 41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site. |
| <input type="checkbox"/> ALL | <input type="checkbox"/> Y | 42 Delineation and acreage of contributing drainage basins on the project site. |
| <input type="checkbox"/> | <input type="checkbox"/> N/A | 43 Delineate on-site drainage and off-site watersheds using USGS 1": 2000' topographical sheets. |
| <input type="checkbox"/> 51-01 | <input type="checkbox"/> Y | 44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| <input type="checkbox"/> 52-03 | <input type="checkbox"/> Y | 45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. |
| <input type="checkbox"/> 52-04 | <input type="checkbox"/> Y | 46 Soil series for the project site and their delineation. |
| <input type="checkbox"/> | <input type="checkbox"/> Y | 47 The limits of disturbance for each phase of construction. |
| <input type="checkbox"/> | <input type="checkbox"/> Y | 48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan. |
| <input type="checkbox"/> | <input type="checkbox"/> Y | 49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| <input type="checkbox"/> 53-01 | <input type="checkbox"/> Y | 50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| <input type="checkbox"/> | <input type="checkbox"/> Y | 51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. |
- *If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A. **Effective January 1, 2016**



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GSWCC LEVEL II
CERTIFICATION # 804

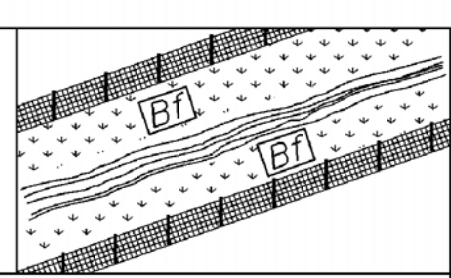
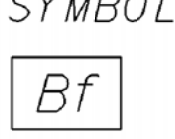
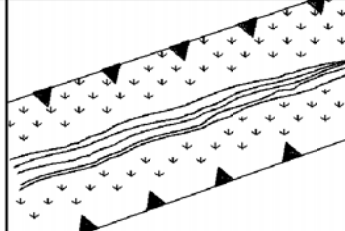
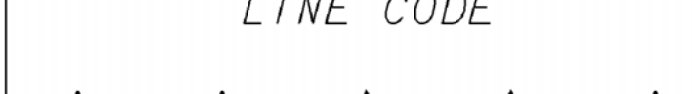
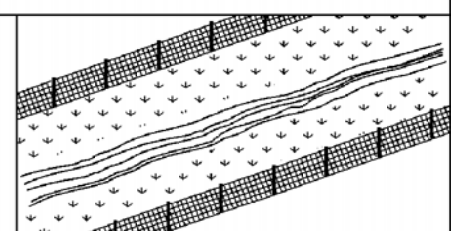

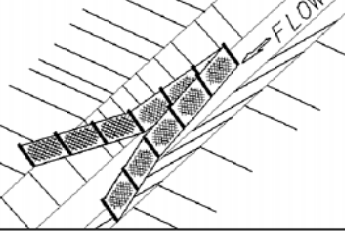
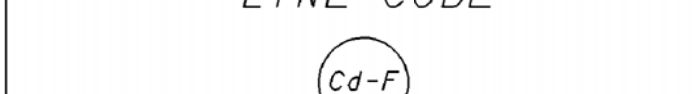
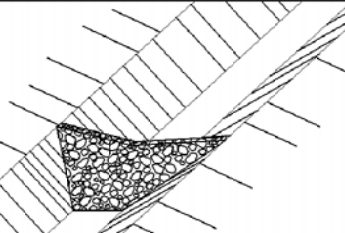

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

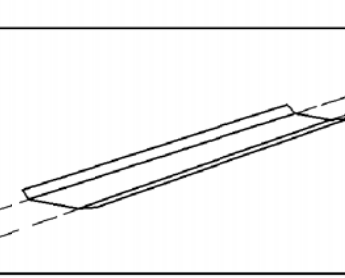
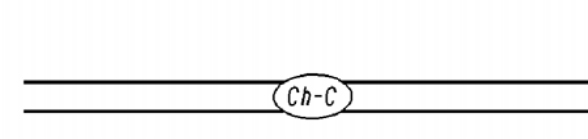
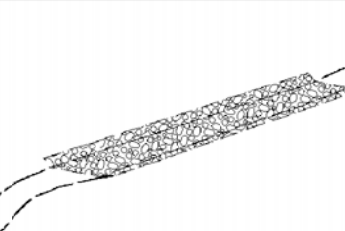
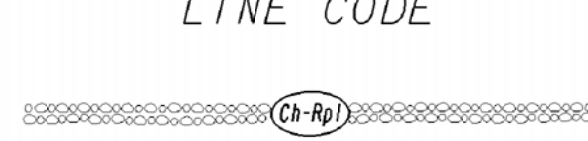
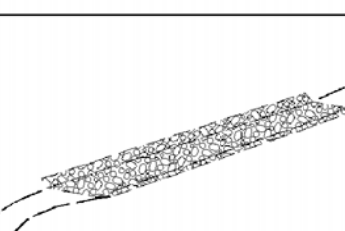

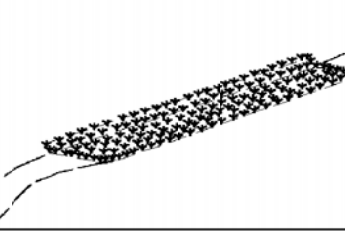
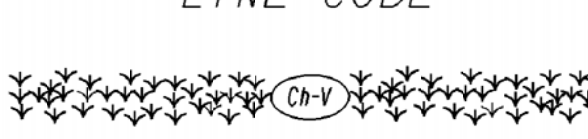
EROSION CONTROL NOTES
 BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
51-05

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

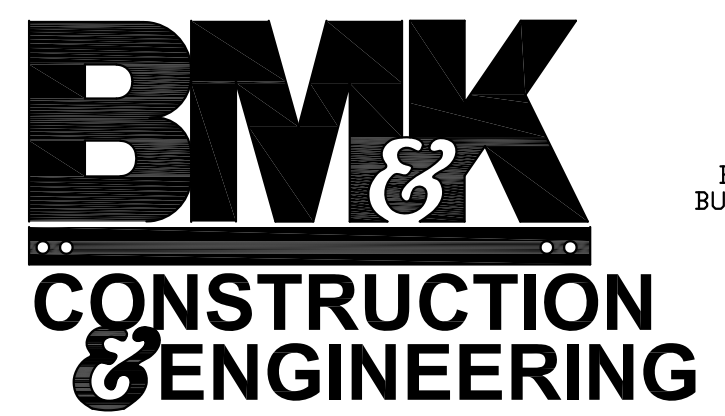
CODE	PRACTICE STD : SPC 's : SECTION	DETAIL	DESCRIPTION
Bf		 SYMBOL 	A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. THE BOUNDARIES OF THESE AREAS ARE BE DELINEATED BY ORANGE BARRIER FENCE.
ESA		 LINE CODE  ESA-25' (OR 50') STREAM BUFFER, ETC.	ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESA AREAS INCLUDE, BUT ARE NOT LIMITED TO, STATE WATER BUFFERS, ARCHAEOLOGICAL SITES, HISTORIC SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		 LINE CODE  ORANGE BARRIER FENCE	ORANGE BARRIER FENCE DELINEATES ESA AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
Cd-F		 LINE CODE 	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, AND BRACING PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24b FOR SPACING REQUIREMENT. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS. IF THIS ITEM IS USED IN AN AREA WITHOUT A SEDIMENT BASIN CONSIDERATION SHOULD BE GIVEN TO USING TWO OR MORE ROCK FILTER DAMS NEAR THE DISCHARGE POINT.
Cd-S		 LINE CODE 	STONE CHECK DAMS ARE USED IN ROADWAY DITCHES. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE CHECK DAMS. CONTRACTOR MAY USE SANDBAG CHECK DAMS IN LIEU OF STONE CHECK DAMS. SANDBAG CHECK DAMS MUST BE USED IN CONCRETE LINED CHANNELS.

NOTE:
 1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
 2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

CODE	PRACTICE STD : SPC 's : SECTION	DETAIL	DESCRIPTION
Ch-C		 SECTION 161.441 	THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
Ch-Rp1		 SECTION 161.603 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP RAP SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
Ch-Rp3		 SECTION 161.603 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP RAP SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
Ch-V		 SECTION 161.700 	USED TO IMPROVE OR STABILIZE A NEW OR EXISTING CHANNEL. IT IS CONSTRUCTED IN STORMWATER DRAINAGE DITCHES. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 1 OF 6	
NO SCALE	JANUARY 2007
NUMBER EC-LI	DRAWING NO. 52-001

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BUSINESS: 706-824-0514
FAX: 706-824-0519

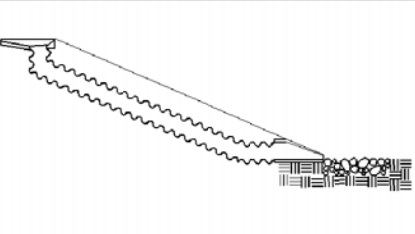
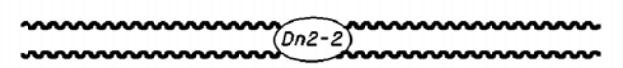
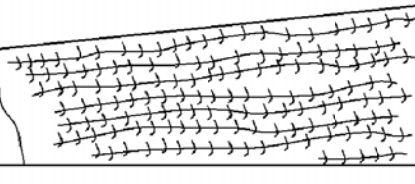
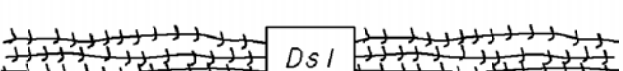
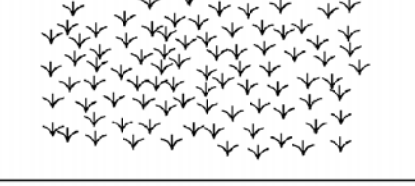
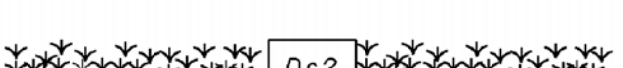
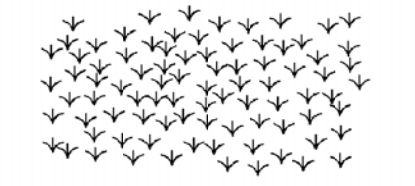
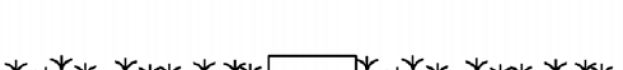
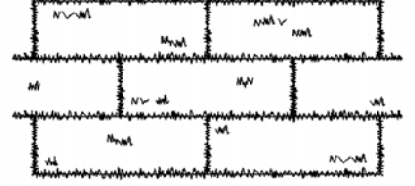
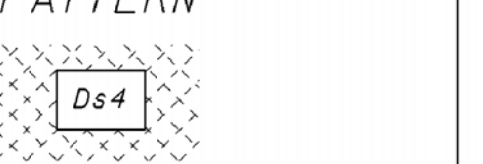


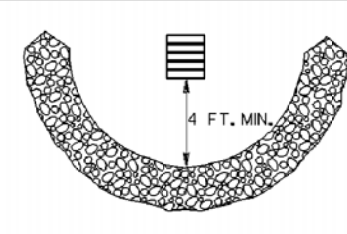

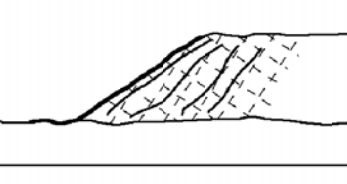

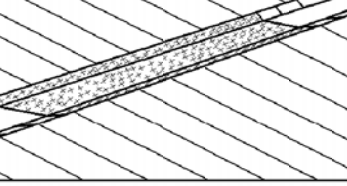
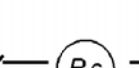
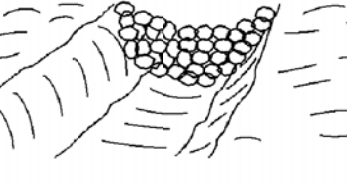
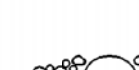
GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation
 EROSION CONTROL LEGEND
 AND UNIFORM CODE SHEET
 BATESVILLE ROAD AND LOWER
 BIRMINGHAM ROAD INTERSECTION
 IMPROVEMENT PROJECT
 DRAWING NO.
 52-01

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017J TP2, D-26 TP2 SECTION 576, 577.		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
		LINE CODE 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING.
		LINE CODE 	
Ds2	TEMPORARY GRASSING SECTION 163		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
		LINE CODE 	
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS. PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.
		LINE CODE 	
Ds4	SODDING SECTION 700		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.
		PATTERN 	

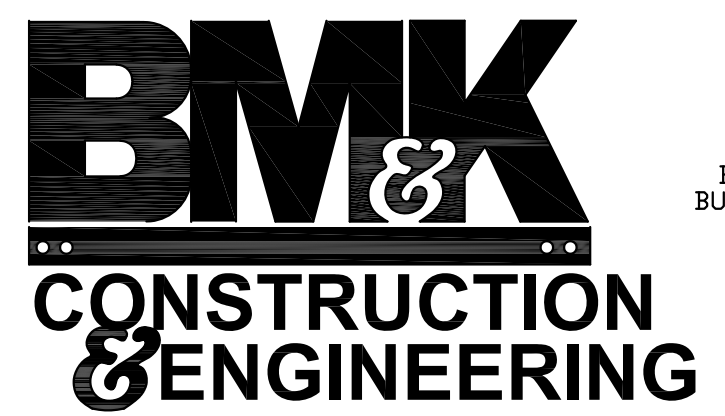
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS. THIS REDUCES THE VELOCITY OF THE RUNOFF AND FILTERS SEDIMENT FROM THE RUNOFF. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
		LINE CODE 	
Mb	EROSION CONTROL MATS CONSTRUCTION DETAIL SECTION 716		ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50' OF ALL CROSS DRAINS AND CULVERTS.
		PATTERN 	
Ps	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 163, 603.		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP RAP AND ARE USED TO PROTECT SMALL STREAMS OR DRAINAGEWAYS. TO BE USED IN SMALL DRAINAGE CHANNELS OF 50 ACRES OR LESS. THE RIP RAP SHOULD BE PLACED ON A GEOTEXTILE UNDERLINER.
		LINE CODE 	

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 3 OF 6	
NO SCALE	JANUARY 2007
NUMBER EC-L3	DRAWING NO. 52-003

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CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
52-03

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

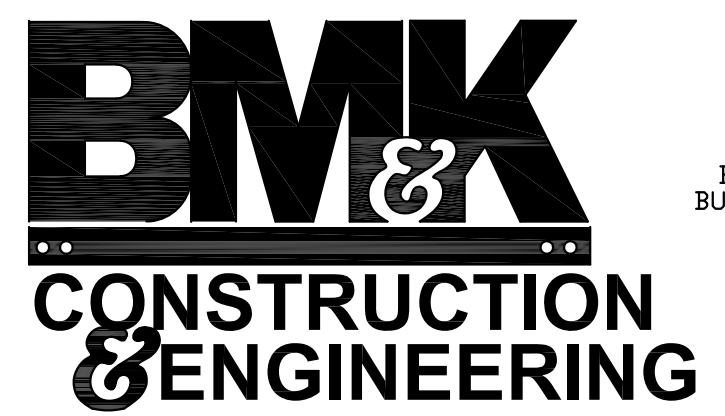
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Co	CONSTRUCTION EXIT		A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE EXITING A CONSTRUCTION SITE TO A PUBLIC ROAD. BEST USED AT ACCESS POINTS, I.E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MIN. 20' WIDE AND 50' LONG, AND 6" THICK. REQUIRES A GEOTEXTILE UNDERLINER. INCLUDED IN THE PRICE FOR THE CONSTRUCTION EXIT.
	CONSTRUCTION DETAIL	LINE CODE 	
Dc-A	DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 0-2.5 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	SECTION 163	LINE CODE 	
Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 2-5-9.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	SECTION 163	LINE CODE 	
Dc-C	DIVERSION CHANNEL RIPRAP AND GEOTEXTILE		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIPRAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 9.0-13.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	SECTION 163	LINE CODE 	
Di	DIVERSION BERM		THIS IS A TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS "Dn1" OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
	CONSTRUCTION DETAIL SECTION 161, 205	LINE CODE 	

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Dn1	DOWN DRAIN STRUCTURE FLEXIBLE		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 500 FEET ON A 0 TO 2 PERCENT GRADE, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE USUAL PIPE SIZE IS 10 INCH CORRUGATED. THE OUTLET AREA SHOULD BE STABILIZED WITH SILT FENCE, SUMP HOLE, HAYBALES, ANGLING OUTLET IN UPHILL DIRECTION OR OTHER APPROPRIATE MEANS FOR VELOCITY DISSIPATION AND EROSION CONTROL. THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	CONSTRUCTION DETAIL SECTION 163	LINE CODE 	
Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	CONSTRUCTION DETAIL SECTION 441	LINE CODE 	
Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	CONSTRUCTION DETAIL SECTION 441	LINE CODE 	
Dn2-I	PERMANENT DOWNDRAIN STRUCTURE		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION. TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	GA. STD. 9017.1 TPI, D-26 TPI SECTION 576, 577.	LINE CODE 	

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 2 OF 6	
NO SCALE	JANUARY 2007
NUMBER EC-L2	DRAWING No. 52-002

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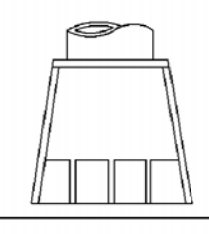

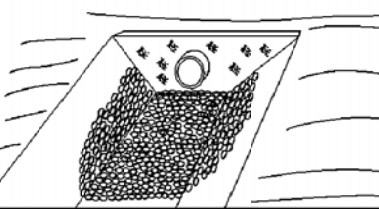
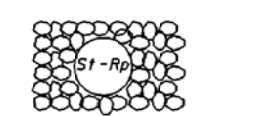
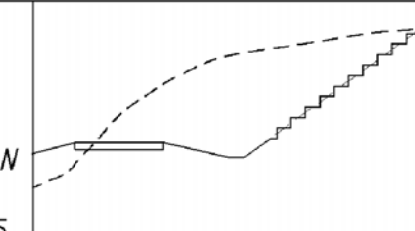
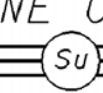
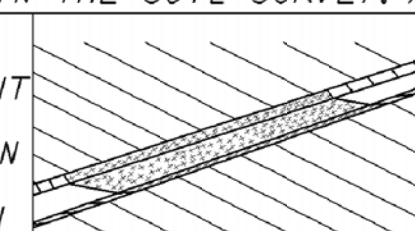

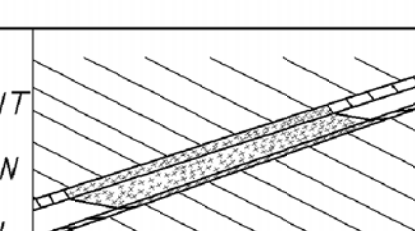



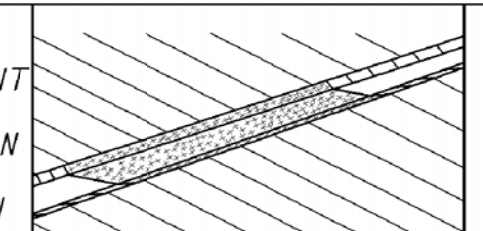
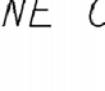
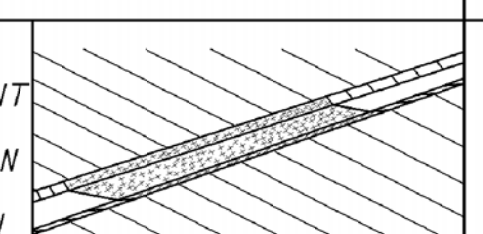

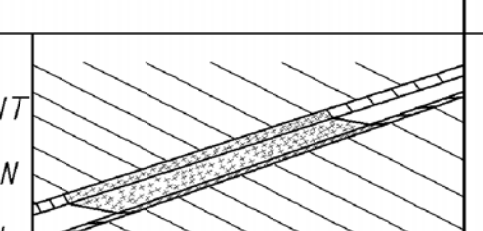
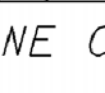
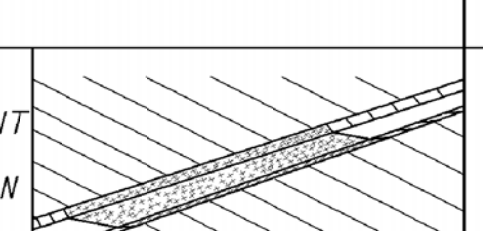
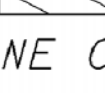
GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
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02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
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05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT
DRAWING NO. 52-05

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CODE	PRACTICE STD. : SPC'S : SECTION	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO PREVENT EROSION AND TO SLOW WATER. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY IS 12 fps AND GREATER.
		LINE CODE 	
St-Rp	STORM DRAIN OUTLET PROTECTION SECTION 603		THIS ITEM IS ADDED TO "St" WHEN ADDITIONAL PROTECTION IS NEEDED. TYPE 1 RIP RAP PLACED ON FILTER FABRIC SHOULD BE USED AT A 24" THICKNESS. MAY BE USED ON INLETS FOR FLOWING STREAMS. REFER TO CHARTS IN "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR QUANTITY DETERMINATION.
		PATTERN 	
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS. BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS ITEM IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE USED ON THE PROJECT, THEN THIS ITEM SHALL BE SHOWN WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE  (LINE CODE Su IS SHOWN ON THE PLANS FOR SERRATED SLOPES WHERE SPECIFIED IN THE SOIL SURVEY.)	
Trm-1	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	
Trm-2	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	

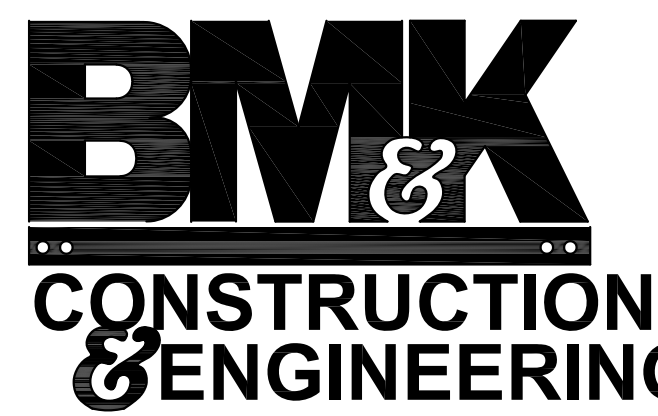
CODE	PRACTICE STD. : SPC'S : SECTION	DETAIL	DESCRIPTION
Trm-3	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	
Trm-4	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	
Trm-5	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	
Trm-6	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
		LINE CODE 	

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 6 OF 6	
NO SCALE	NOV., 2007
NUMBER EC-L6	DRAWING No. 52-006

1:\30\2013\1:53:33 PM \GDDT\DSN\GDDPLOT\QCF\06C.qcf.taux.W:\JPC\Erosion control legend and uniform codes sheet\revision to soil and code sheet\EC152-006.prj

1:\30\2013\1:53:33 PM \GDDT\DSN\GDDPLOT\QCF\06C.qcf.taux.W:\JPC\Erosion control legend and uniform codes sheet\revision to soil and code sheet\EC152-006.prj



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BRASSETON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



REGISTERED PROFESSIONAL ENGINEER
No. 029212
Date Rec'd. 8/1/17
GSWCC LEVEL II
CERTIFICATION # 804

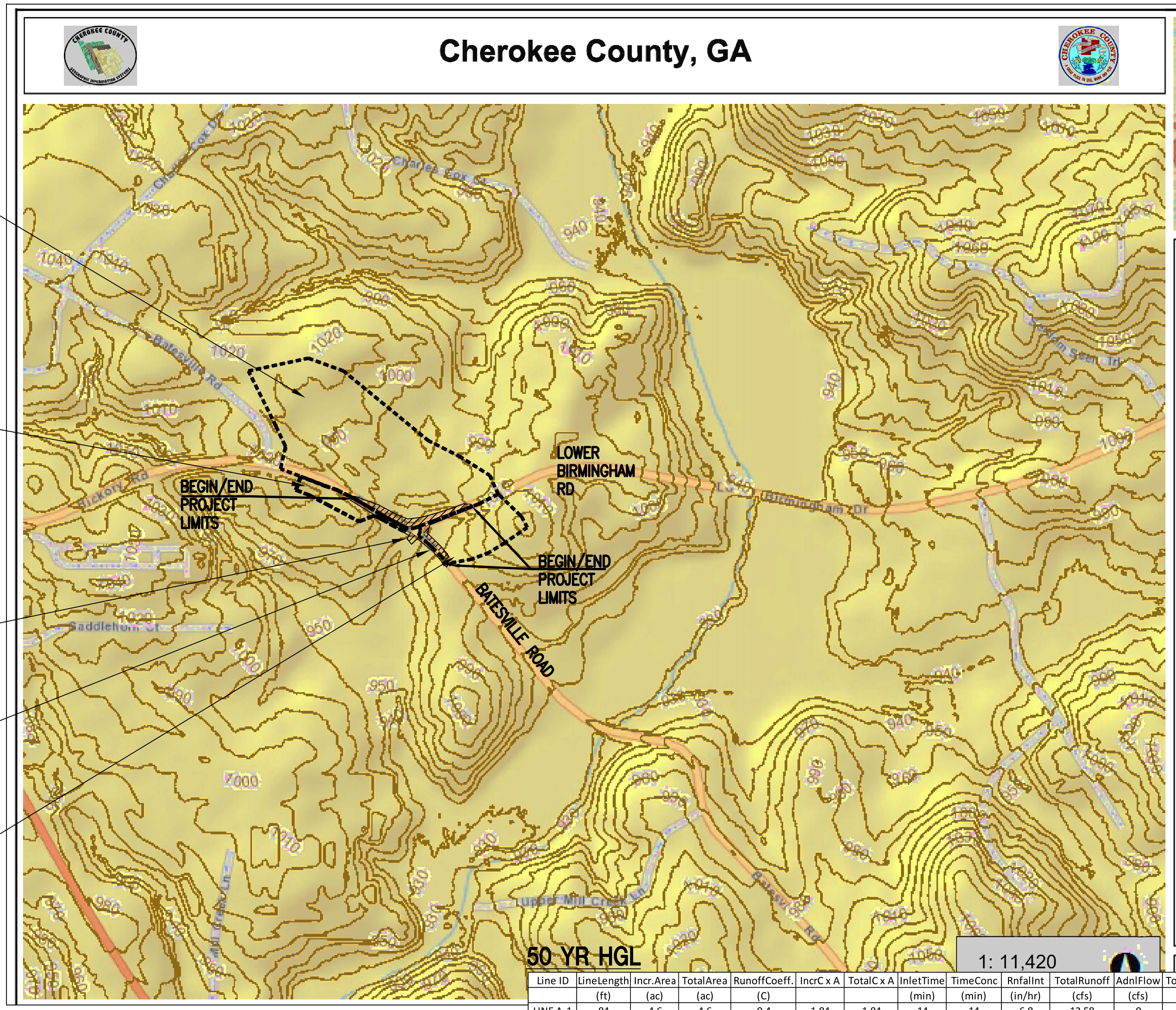
PLANS COMPLETED
REVISIONS
02/20/17 CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17 CHEROKEE COUNTY COMMENTS
05/05/17 FINAL SET
05/15/17 REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET

BATESVILLE ROAD AND LOWER
BIRMINGHAM ROAD INTERSECTION
IMPROVEMENT PROJECT

DRAWING No.
52-006



LINE C
DRAINAGE AREA = 23 ACRES
DISTURBED AREA = 0.7 ACRES

LINE B
DRAINAGE AREA = 1.6 ACRES

DISTURBED AREA
1.0 ACRES

PROJECT AREA
1.8 ACRES

LINE A
DRAINAGE AREA = 4.6 ACRES
DISTURBED AREA = 0.3 ACRES

NOTES:

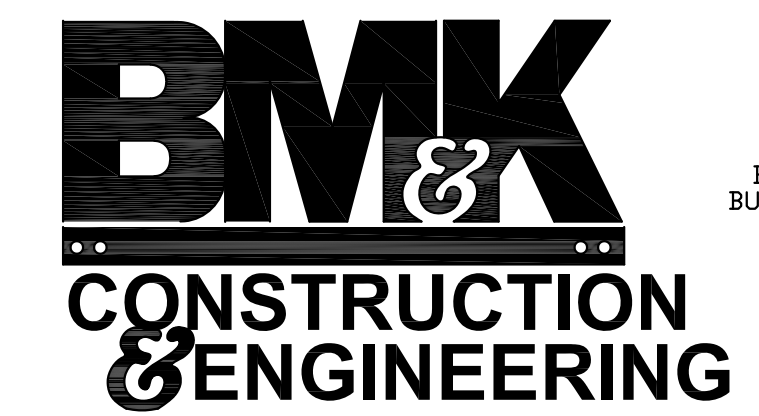
1. THE PROJECT RECEIVING WATERS IS UNNAMED TRIBUTARY OF MILL CREEK
2. THE SENSITIVE AREAS ADJACENT TO PROJECT THAT MAY BE AFFECTED ARE ADJACENT RESIDENTIAL AREAS.
3. NO PONDS OR LAKES WITHIN 500' OF PROJECT.
- 4.

50 YR HGL

Line ID	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID
LINE A-1	84	4.6	4.6	0.4	1.84	1.84	14	14	6.8	12.58	0	12.58	307.53	4.03	48	4.58	963.57	967.42	964.98	968.46	968.57	971.42	LINE A-1
Line B-2	4	0	24.6	0	0	9.84	0	30.2	4.9	47.77	0	47.77	149.14	13.58	36	5	965.35	965.55	966.52	967.8	967.35	970.47	Line B-2
Line B-1	62	1.6	1.6	0.4	0.64	0.64	18	18	6.2	3.96	0	3.96	44.41	6.4	24	3.85	967.6	969.99	968	970.69	970.47	971.99	Line B-1
Line C	71	23	23	0.4	9.2	9.2	30	30	4.9	44.8	0	44.8	140.03	12.88	36	4.41	966.68	969.81	967.85	971.99	970.47	972.81	Line C

100 YR HGL

Line ID	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID
LINE A-1	84	4.6	4.6	0.4	1.84	1.84	14	14	7.5	13.76	0	13.76	307.53	4.24	48	4.58	963.57	967.42	964.98	968.5	968.57	971.42	LINE A-1
Line B-2	4	0	24.6	0	0	9.84	0	30.2	5.3	52.59	0	52.59	149.14	14.04	36	5	965.35	965.55	966.58	967.91	967.35	970.47	Line B-2
Line B-1	62	1.6	1.6	0.4	0.64	0.64	18	18	6.8	4.34	0	4.34	44.41	6.57	24	3.85	967.6	969.99	968.02	970.72	970.47	971.99	Line B-1
Line C	71	23	23	0.4	9.2	9.2	30	30	5.4	49.31	0	49.31	140.03	13.31	36	4.41	966.68	969.81	967.91	972.09	970.47	972.81	Line C



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CERTIFICATION # 804

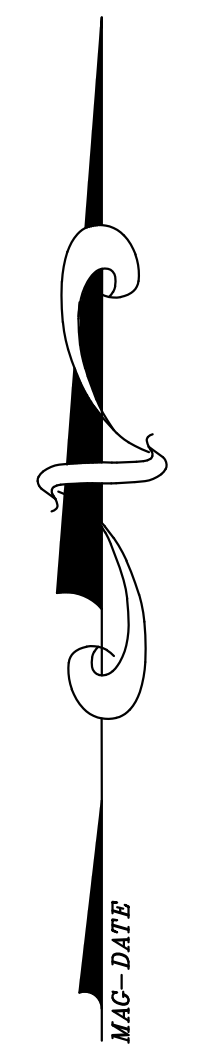
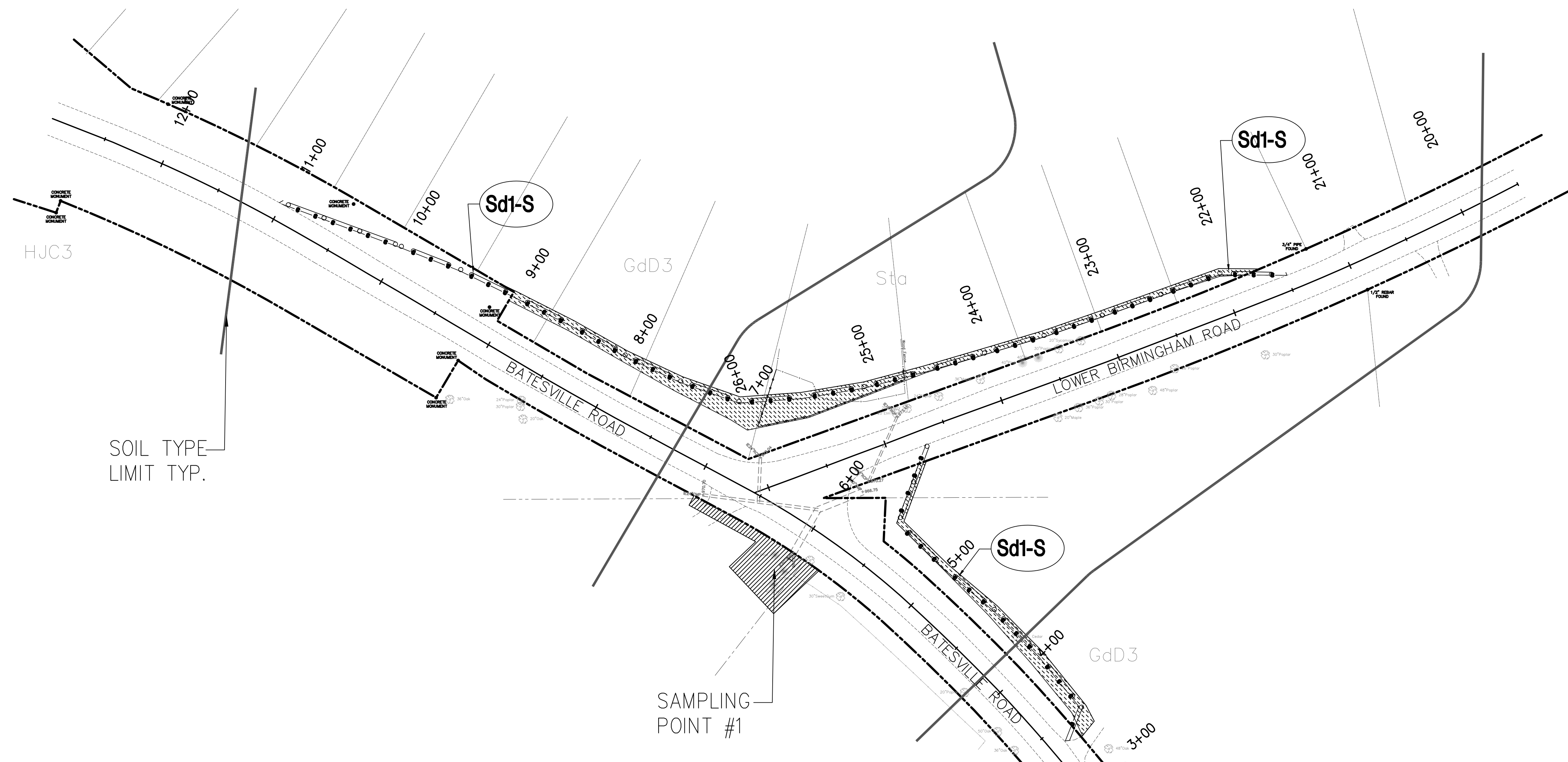
PLANS COMPLETED

REVISIONS	COMMENTS
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

ESPCP DRAINAGE AREA MAP
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
53-01



- Vegetative Plan**
 -APPLY Ds2 AS SOON AS ROUGH GRADING IS COMPLETE
 -APPLY Ds3 ONCE FINAL GRADE IS COMPLETE
- Ds1** MULCHING - USE STRAW OR HAY 2.5 TONS PER ACRE
 - Ds2** SEPTEMBER THROUGH FEBRUARY, USE WINTER RYE 4 LB/1000 SF
APRIL THROUGH AUGUST, USE KENTUCKY 31 FESCUE 4 LB/1000 SF
 - Ds3** OCTOBER THROUGH MARCH, USE UNHULLED BERMUDA 4LB/1000 SF
APRIL THROUGH JULY, USE ZENITH ZOYSIA 4LB/1000 SF
AUGUST THROUGH SEPTEMBER, USE KENTUCKY 31 FESCUE

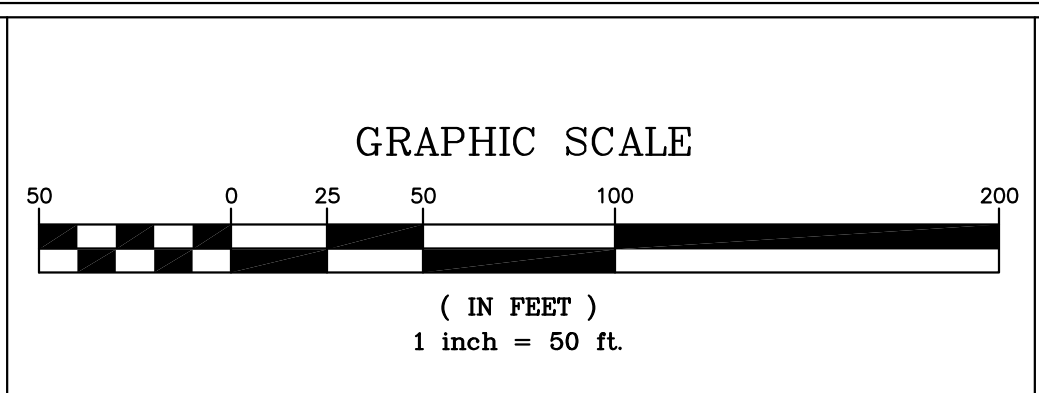
- Soil Legend:**
- HJC3 - HAYESVILLE SANDY CLAY LOAM, 2 TO 10% SLOPES
 - GdD3 - GWINNETT SANDY CLAY LOAM, 6 TO 15% SLOPES
 - Sta - STARR FINE SANDY LOAM

NO WETLANDS LOCATED ON THIS SITE.
THIS PROJECT DOES NOT ENCROACH INTO STREAM BUFFERS

TOTAL PROJECT AREA = 178 ACRES
TOTAL NON PAVEMENT DISTURBED AREA = 10 ACRES

Sediment Calculations Clearing Phase

TOTAL AREA OF CONSTRUCTION	=	1.78 ACRES
TOTAL NON PAVEMENT DISTURBED AREA	=	1.0 ACRES
SEDIMENT STORAGE REQUIRED = 1.0 AC * 67 CY/AC	=	67 CY
STORAGE AVAILABLE IN SILT FENCE @ 0.1675 CY/LF (377 LF)	=	63 CY
STORAGE AVAILABLE IN SD2-F @ 0.1675 CY/LF (377 LF)	=	26 CY
SEDIMENT STORAGE AVAILABLE	=	89 CY



BMK & ENGINEERING

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 FAX: 706-824-0519

REGISTERED PROFESSIONAL ENGINEER
 No. 029212
 B. Clerici

GSWCC LEVEL II
 CERTIFICATION # 804

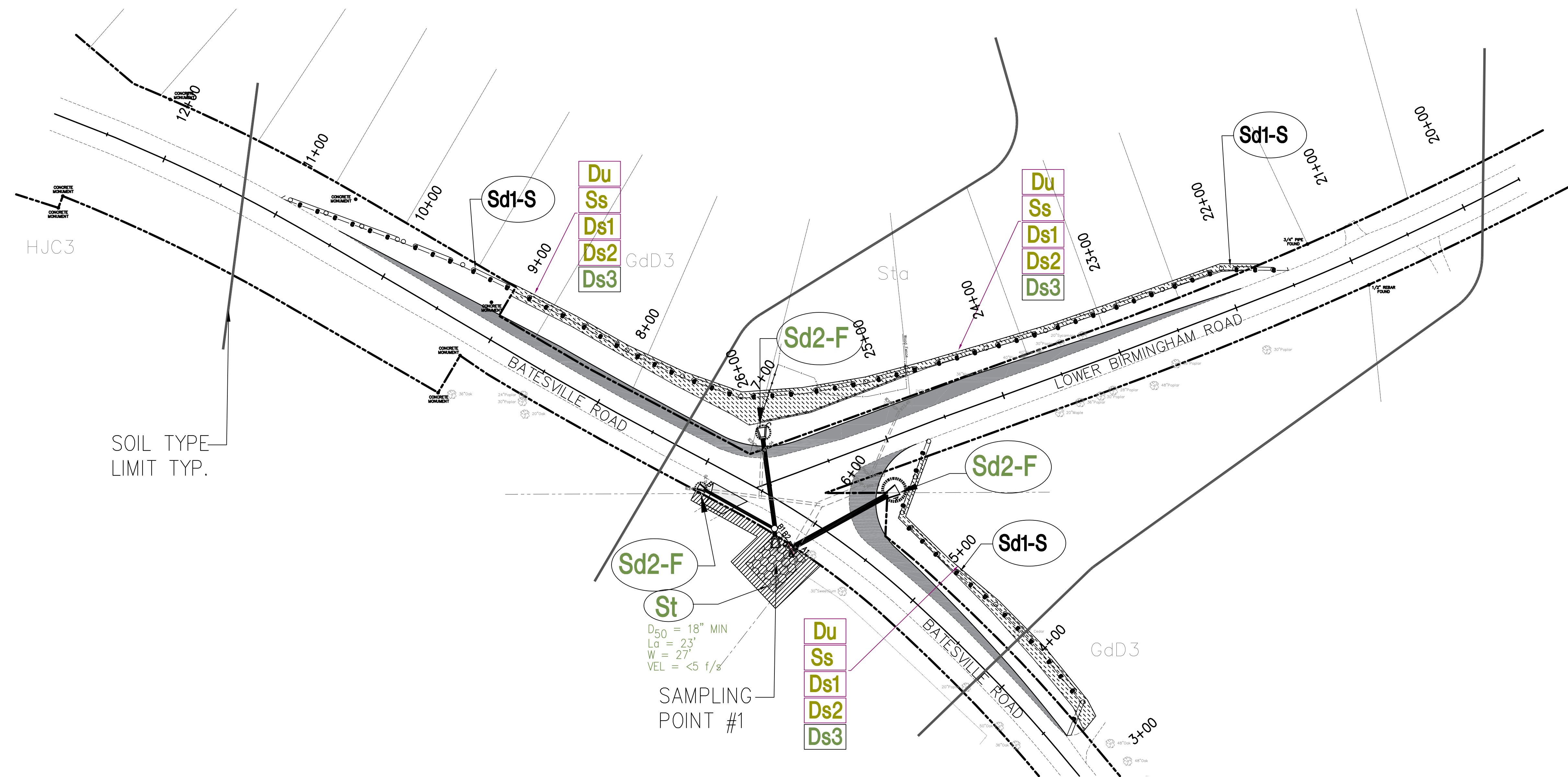
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL PLAN - INITIAL

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 54-01



SOIL TYPE
LIMIT TYP.

St
 $D_{50} = 18" \text{ MIN}$
 $L_0 = 23'$
 $W = 27'$
 $VEL = <5 \text{ f/s}$
 SAMPLING POINT #1

Vegetative Plan

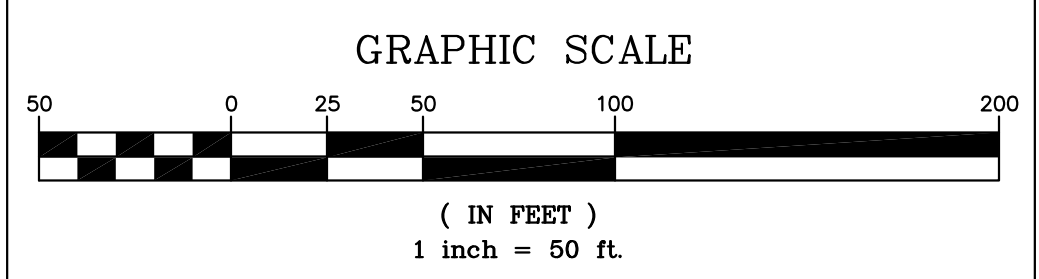
-APPLY Ds2 AS SOON AS ROUGH GRADING IS COMPLETE
 -APPLY Ds3 ONCE FINAL GRADE IS COMPLETE

- Ds1** MULCHING - USE STRAW OR HAY 2.5 TONS PER ACRE
- Ds2** SEPTEMBER THROUGH FEBRUARY, USE WINTER RYE 4 LB/1000 SF
 APRIL THROUGH AUGUST, USE KENTUCKY 31 FESCUE 4 LB/1000 SF
- Ds3** OCTOBER THROUGH MARCH, USE UNHULLED BERMUDA 4LB/1000 SF
 APRIL THROUGH JULY, USE ZENITH ZOYSIA 4LB/1000 SF
 AUGUST THROUGH SEPTEMBER, USE KENTUCKY 31 FESCUE

NO WETLANDS LOCATED ON THIS SITE
THIS PROJECT DOES NOT ENCROACH INTO
STREAM BUFFERS

Sediment Calculations Clearing Phase

TOTAL AREA OF CONSTRUCTION	=	1.78 ACRES
TOTAL NON PAVEMENT DISTURBED AREA	=	1.0 ACRES
SEDIMENT STORAGE REQUIRED	=	$1.0 \text{ AC} \cdot 67 \text{ CY/AC} = 67 \text{ CY}$
STORAGE AVAILABLE IN SILT FENCE @ 0.1675 CY/LF (377 LF)	=	63 CY
STORAGE AVAILABLE IN SD2-F @ 0.1675 CY/LF (377 LF)	=	26 CY
SEDIMENT STORAGE AVAILABLE	=	89 CY



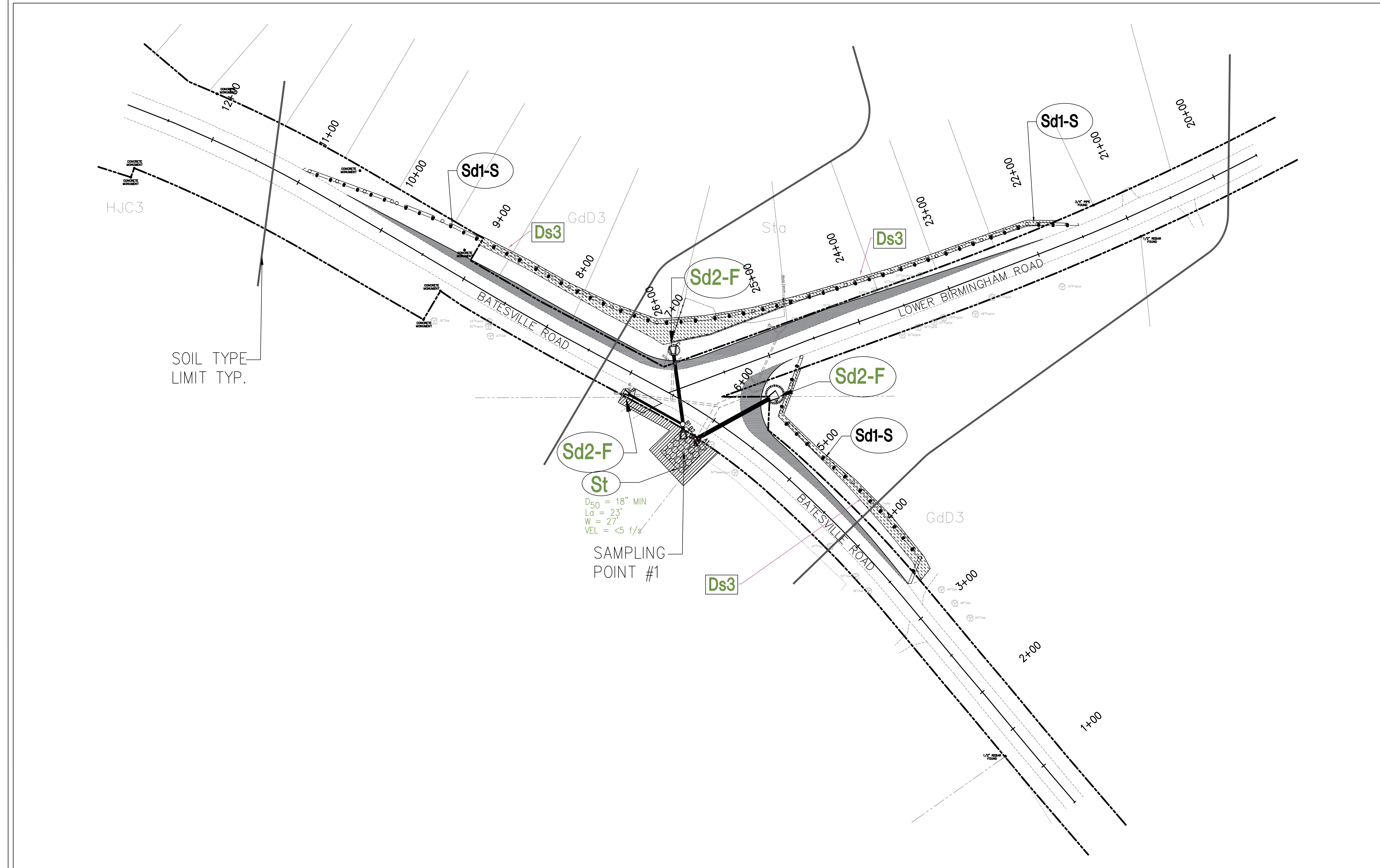
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 BRASSETT, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519

REGISTERED PROFESSIONAL ENGINEER
 No. 029212
Dora Id. B. Clerici
 GSICC LEVEL II
 CERTIFICATION # 804

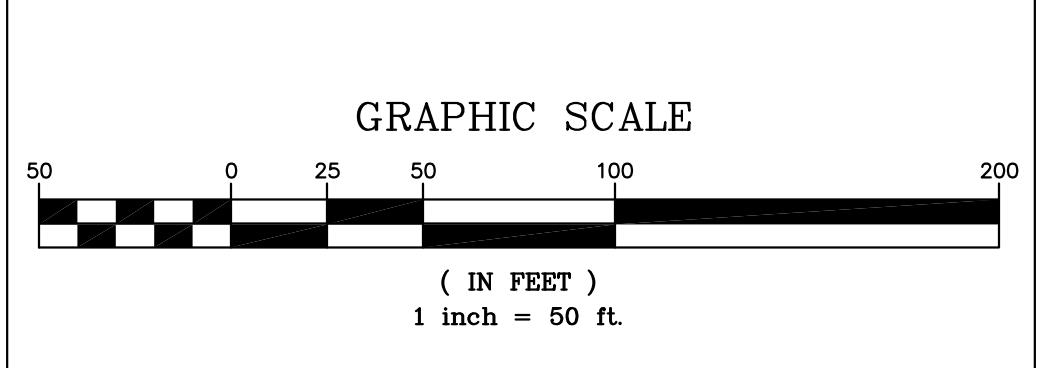
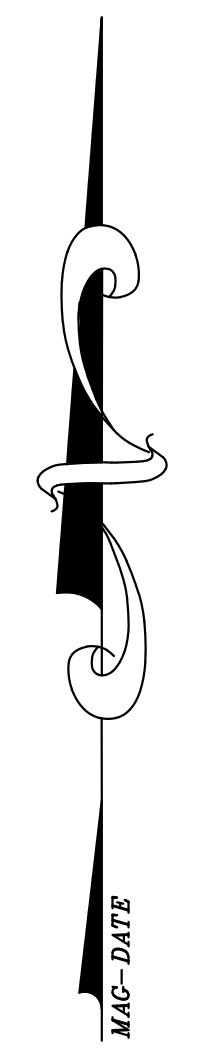
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL PLAN - GRADING
 BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT
 DRAWING NO. 54-02



SOIL TYPE
LIMIT TYP.



BMK & CONSTRUCTION & ENGINEERING

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PLANS COMPLETED	
REVISIONS	
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04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

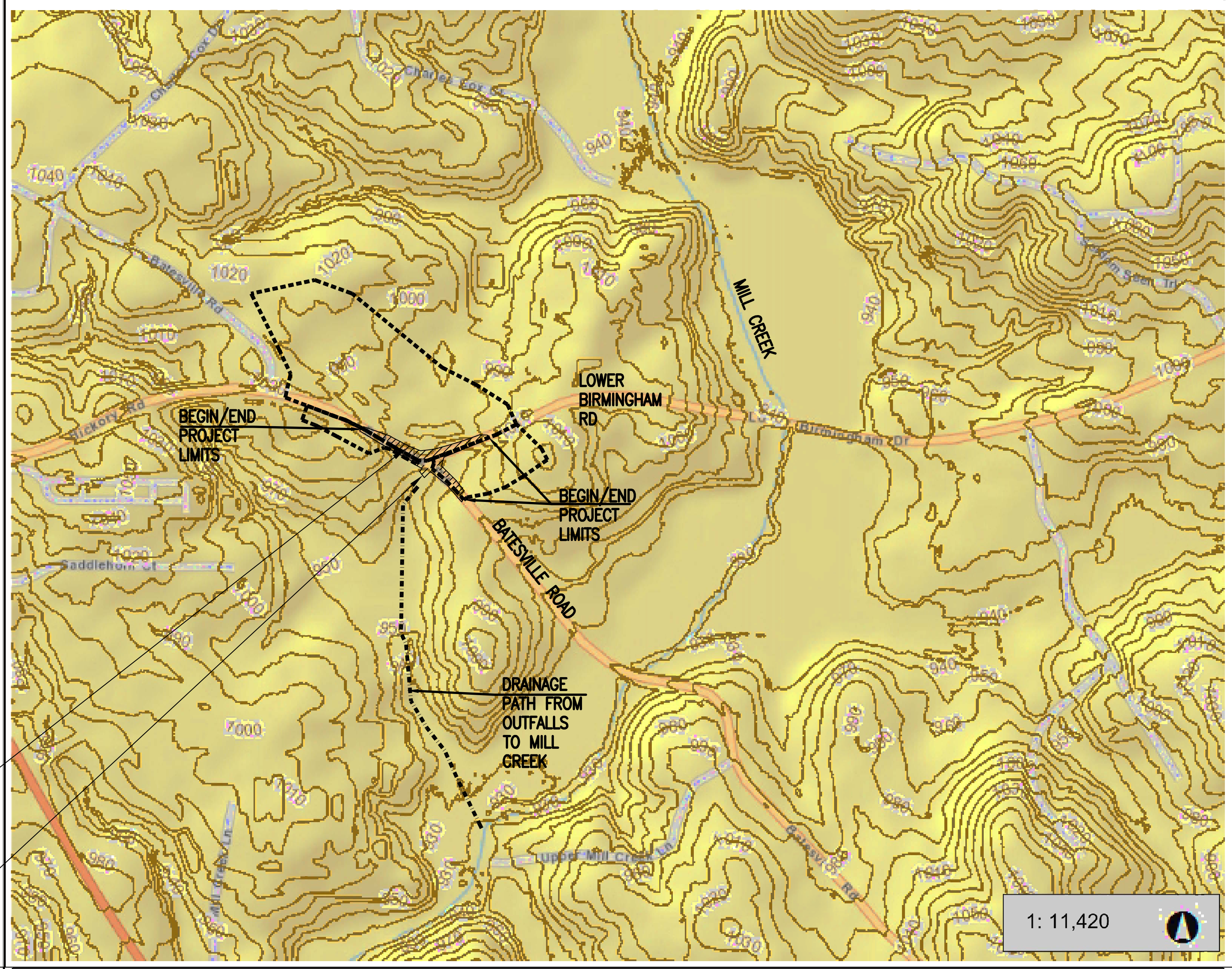
Cherokee County Department of Transportation

EROSION CONTROL PLAN – FINAL

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
54-03

Cherokee County, GA



- Legend**
- Index Contours
 - Index Contours
 - Intermediate Countours
 - Index Contours
 - Intermediate Countours
 - Index Contours
 - Index Contours
 - ▲ Schools
 - ✚ Churches

Notes

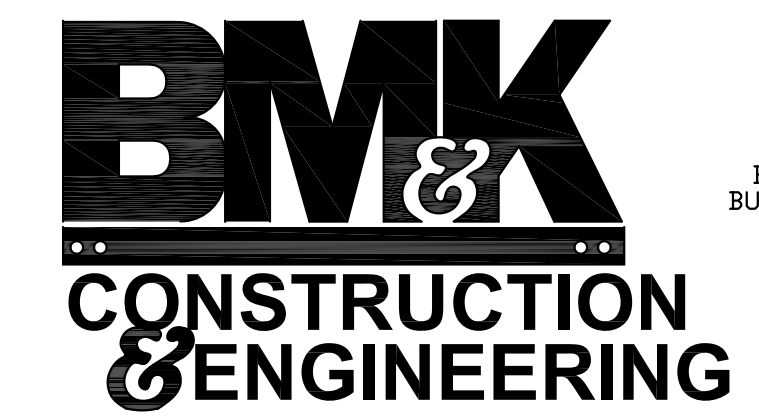
PROJECT AREA
1.8 ACRES

SAMPLING
POINT @ OUTFALL OF
LINES A AND B

1,903.3 0 951.64 1,903.3 Feet

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THIS MAP IS NOT TO BE USED FOR NAVIGATION



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GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation
EROSION CONTROL WATERSHED MAP AND SITE MONITORING LOCATION
BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
55-01

EROSION CONTROL SYMBOLS LEGEND	
STRUCTURAL PRACTICES	
CODE	DESCRIPTION
Cd	DEEDEM: A small temporary barrier or dam constructed across a road, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION: Improves, constructs or stabilizes an open channel, existing stream, or ditch.
Co	CONSTRUCTION ERT: A crushed stone pad located at the construction site used to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION: A temporary channel constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM EROSION CHANNEL: A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Df	DIVERSION: An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNSTREAM STRUCTURE: A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary.
Dn2	PERMANENT DOWNSTREAM STRUCTURE: A lined chute pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING: A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION: Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE: Permanent structures installed to protect channels or structures where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER: A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM: A permanent or temporary stone filter dam installed across small streams or drainways.
Rw	RETAINING WALL: A wall installed to stabilize cut and fill slopes where maximum permissible slope are not obtainable. Each situation will require specific design.
Rt	RETRO FITTING: A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER: A barrier to prevent sediment from leaving the construction site. It may be sandbags, bags of straw or hay, straw, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP: An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on construction of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN: A basin created by excavation or a dam across a roadway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP: A small temporary pond that drains a disturbed area and that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SPANNER: A buoyant device that releases/draws water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spp	SEEP BERM: Linear control device constructed as a series of small mounds to divert the direction of runoff to enhance dispersion and infiltration, while creating positive sedimentation channels with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING: A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMWATER OUTLET PROTECTION: A pond or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING: A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN: A floating or stake barrier installed within the water (It may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING: The practice of stripping off the more fertile soil, spreading it then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION: To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY: Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.
VEGETATED PRACTICES	
Bf	BUFFER ZONE: Strip of undisturbed original vegetation, enhanced or restored existing vegetation, or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	CENTRAL LINE STABILIZATION (NEW VEGETATION): Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (NEW VEGETATION): Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion reducing cover.
Ds2	DISTURBED AREA STABILIZATION (NEW SEEDING): Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (NEW TREE SEEDS): Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (EXISTING VEGETATION): A permanent vegetative cover using seeds on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS: Controlling surface and air movement of dust on construction site, roadway and similar sites.
F-Cd	FLOCCULANTS AND COAGULANTS: Substance formulated to assist in the solid/liquid separation of suspended particles in solution.
Sb	STREAM CHANNEL STABILIZATION (NEW VEGETATION): The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION: A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tbc	TACKERS AND BINDERS: Substance used to anchor straw or hay matting by causing the organic material to bind together.

Ds1

TEMPORARY GRASSING NOTES:
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING, MULCH CAN BE USED AS A SINGLE EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS BOX COVER OR GREATER OF THE SOIL SURFACE.
WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVEN-TIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
WHEN SOIL HAS BEEN SEALED BY RAINFALL OR COM-SSETS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE FITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MEDIUM PH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.
SEE BELOW FOR SEEDING RATES:

Ds2

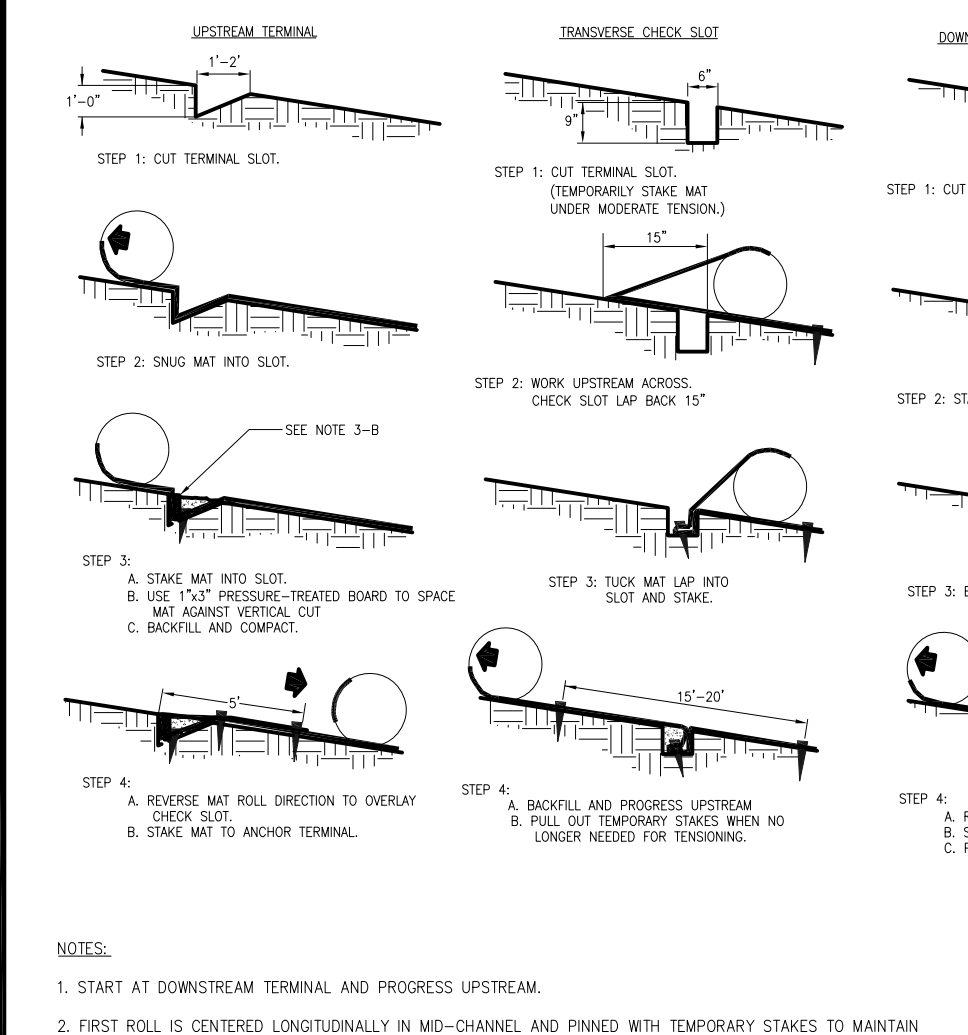
SPECIES	RATE PER 1,000 SQ. FT.
WINTER RYE	10 POUNDS
KENTUCKY 31 FESCUE	8 POUNDS

Ds3

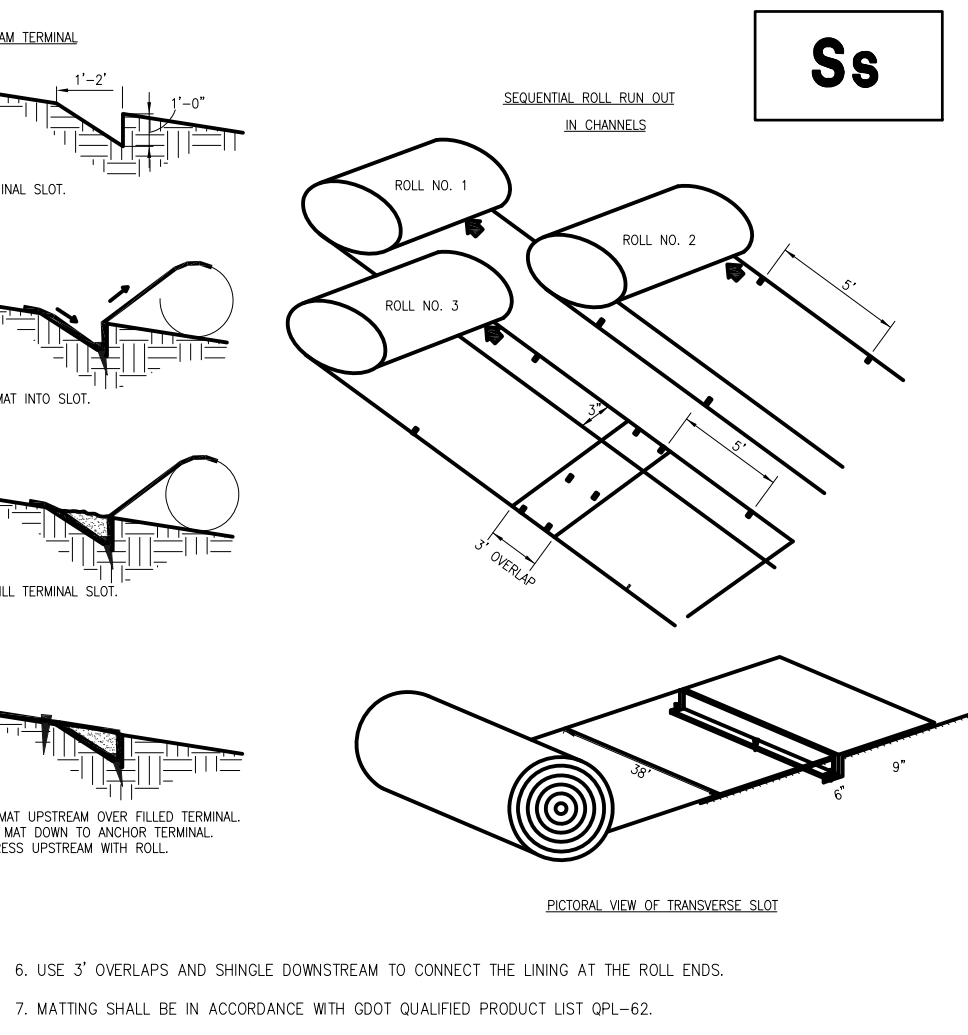
PERMANENT GRASSING:
TILL UNDER EXISTING OR TEMPORARY GRASSING. PREPARE SOIL BY THOROUGHLY CULTIVATING, DISKING, HAND RAKING, ETC. AS NECESSARY TO PRODUCE A SMOOTH, EVEN GRADE FREE OF ALL CONSTRUCTION DEBRIS AND STONES 3/4" AND LARGER IN DIAMETER. A MINIMUM OF 5 INCH DEPTH OF TOPSOIL SHALL BE REQUIRED FOR ALL GRASSING AREAS. APPROXIMATELY 2 DAYS PRIOR TO START OF SEEDING OR SOODING, APPLY GROUND LIMESTONE AT A RATE OF 100 POUNDS PER 1,000 SF. (VERIFY/COMPARE RATE WITH SOIL TEST AND ADJUST APPLICATION ACCORDINGLY). IN CONJUNCTION WITH APPLYING LIMESTONE, APPLY COMMERCIAL FERTILIZER OVER ALL THE LAWN AREAS AT THE RATE OF 10 POUNDS PER 1,000 SF (VERIFY/COMPARE WITH SOIL TEST AND ADJUST APPLICATION ACCORDINGLY). WORK LIMESTONE AND FERTILIZER INTO TOP 5 INCHES AND FERTILIZER INTO TOP 2 INCHES. FERTILIZER SLOW-RELEASE TYPE, 5% NITROGEN, 10% PHOSPHORIC ACID, 15% POTASH LIME: GROUND COLOMBIAN LIMESTONE.
SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.
STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

SPECIES	RATE PER 1,000 SQ. FT.
COMMON BERMUDA (CYANDON DACTYLON)	4 POUNDS
KENTUCKY 31 FESCUE (FESCUIA ELATIOR, VAR. ARUNDINACEA)	8 POUNDS
ZENITH ZOYSIA	4 POUNDS

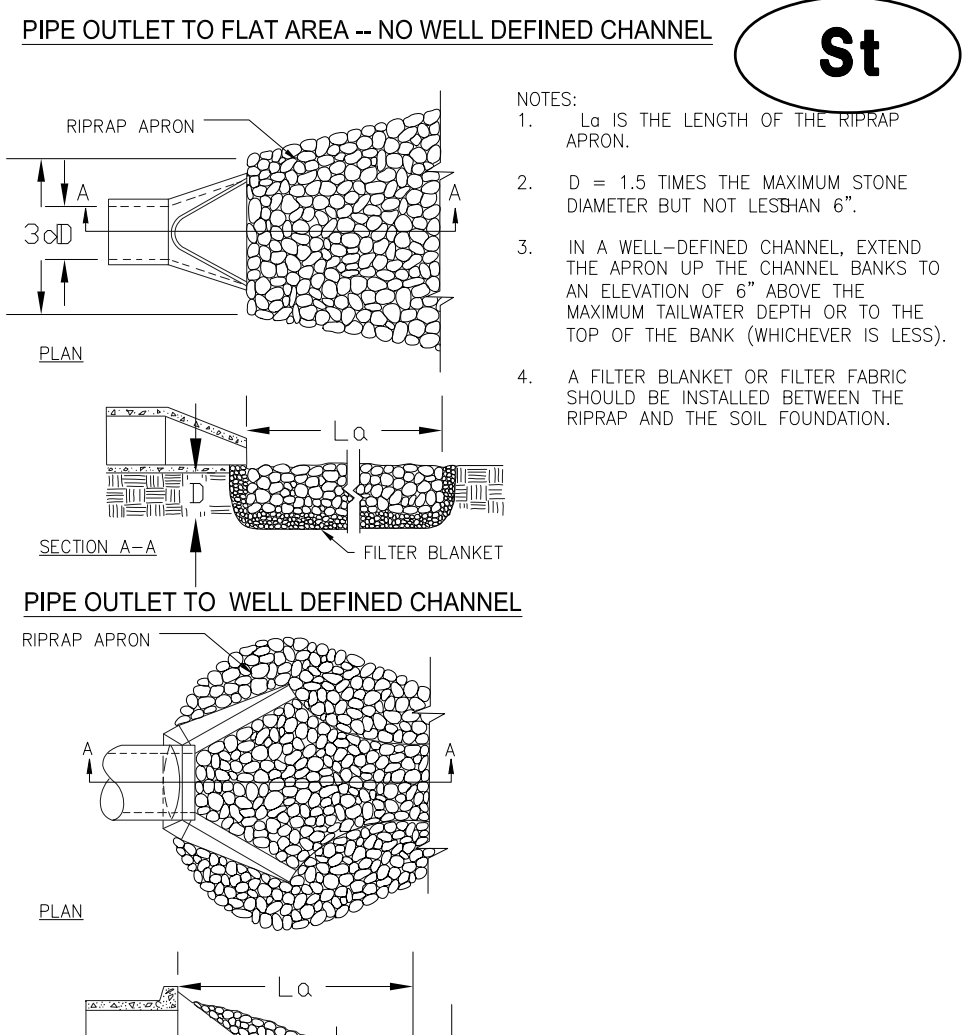
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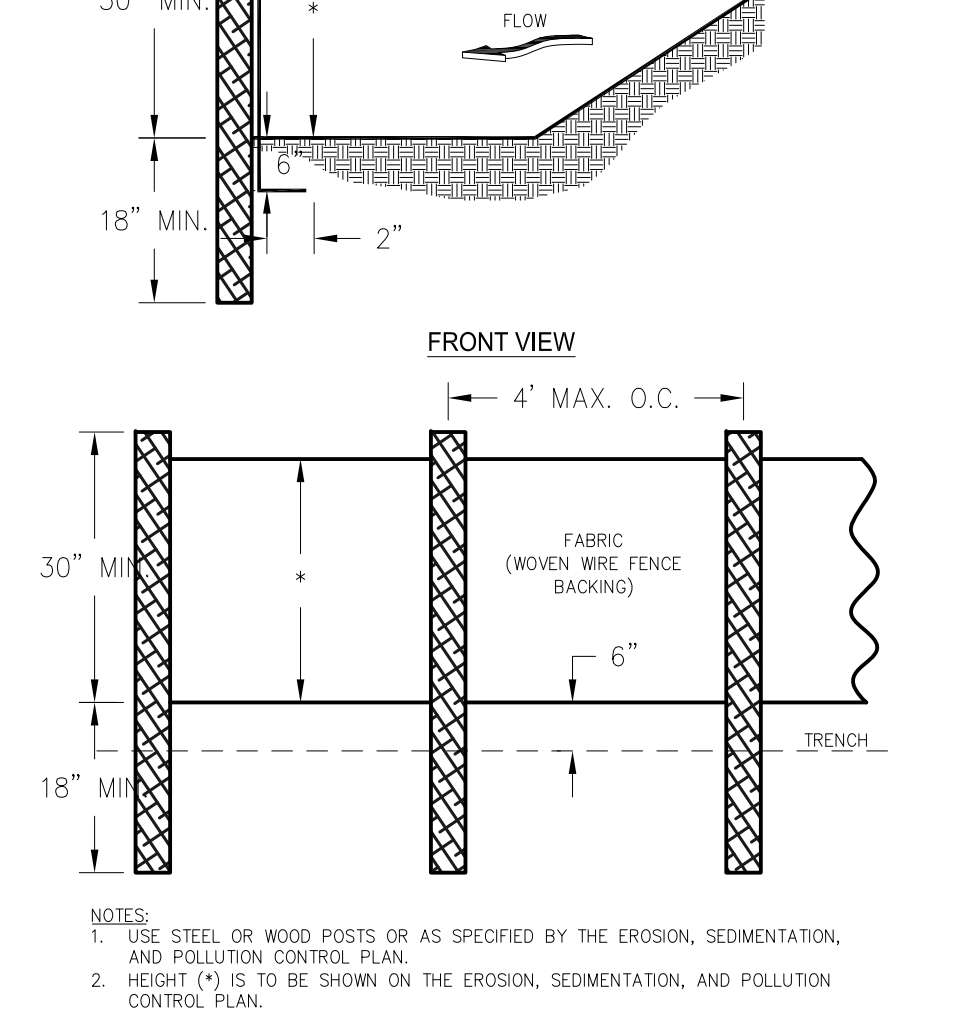
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Du



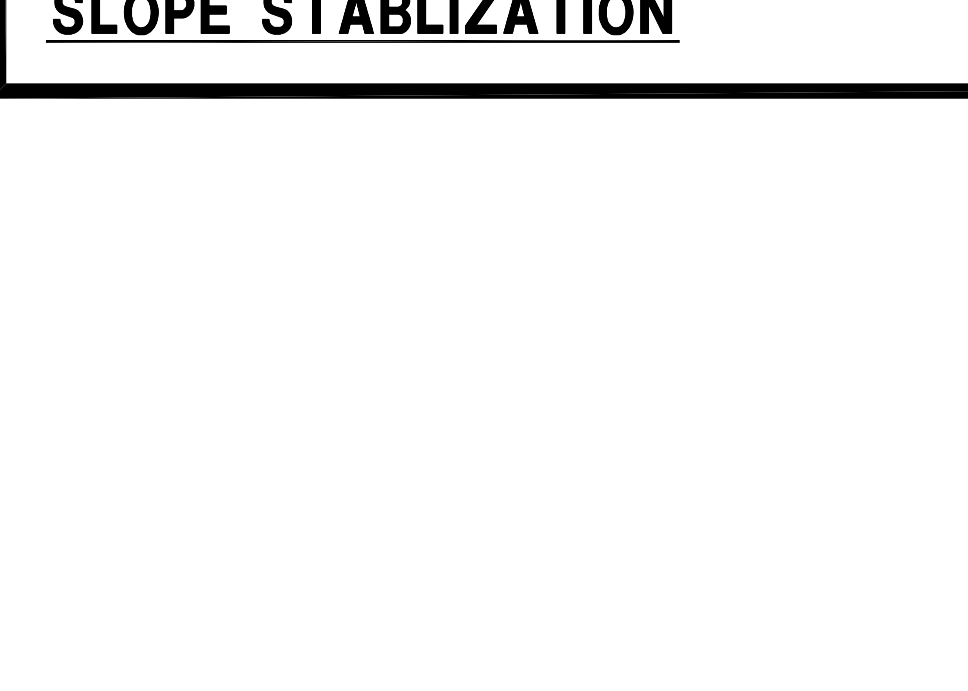
Sd1-S



Du

TEMPORARY METHODS:
MULCHES: SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION TAC - TACKIFIERS. RESINS SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
VEGETATIVE COVER: SEE SPECIFICATION DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
SPRAY-ON ADHESIVES: THESE ARE USED ON MNER-AL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO SPECIFICATION TAC - TACKIFIERS.
TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLUDS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART. SPRING-TOOTHED HARROWS, AND SIMILAR FLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.
IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
BARRIERS: SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
CALCIUM CHLORIDE: APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.
PERMANENT METHODS
PERMANENT VEGETATION: SEE SPECIFICATION DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS ERODIBLE SOIL MATERIAL. SEE SPECIFICATION TP - TOPSOILING.
STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION CR-CONSTRUCTION ROAD STABILIZATION.

Ss



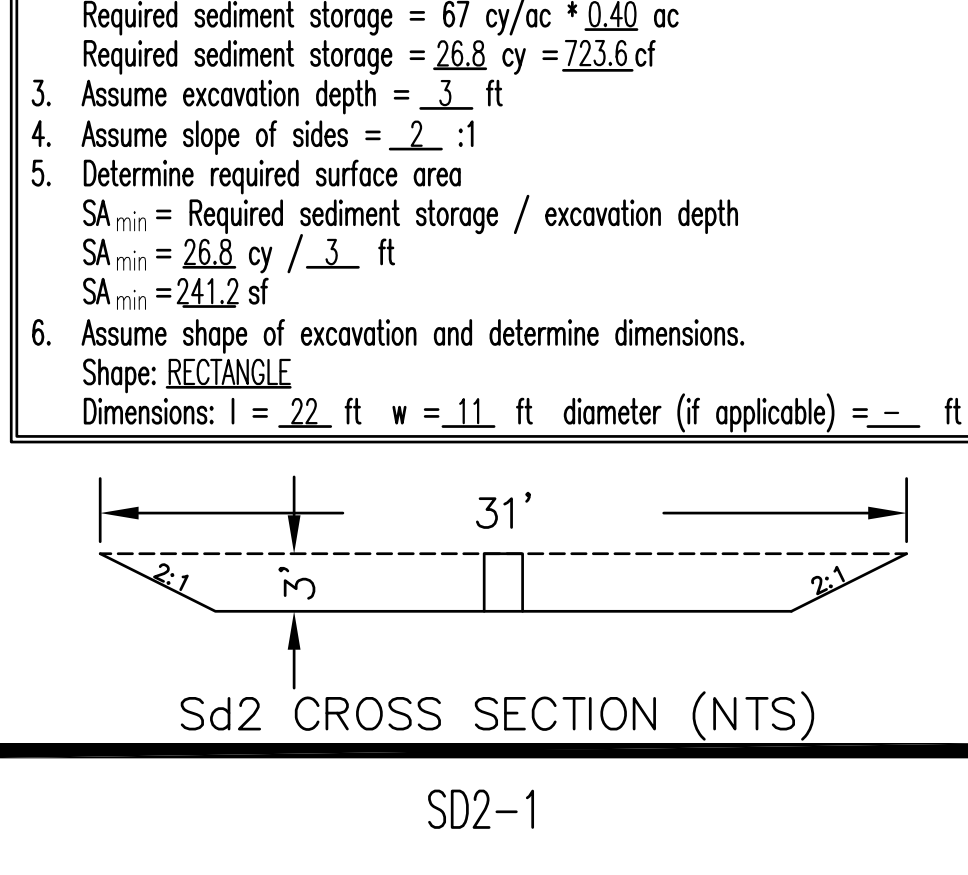
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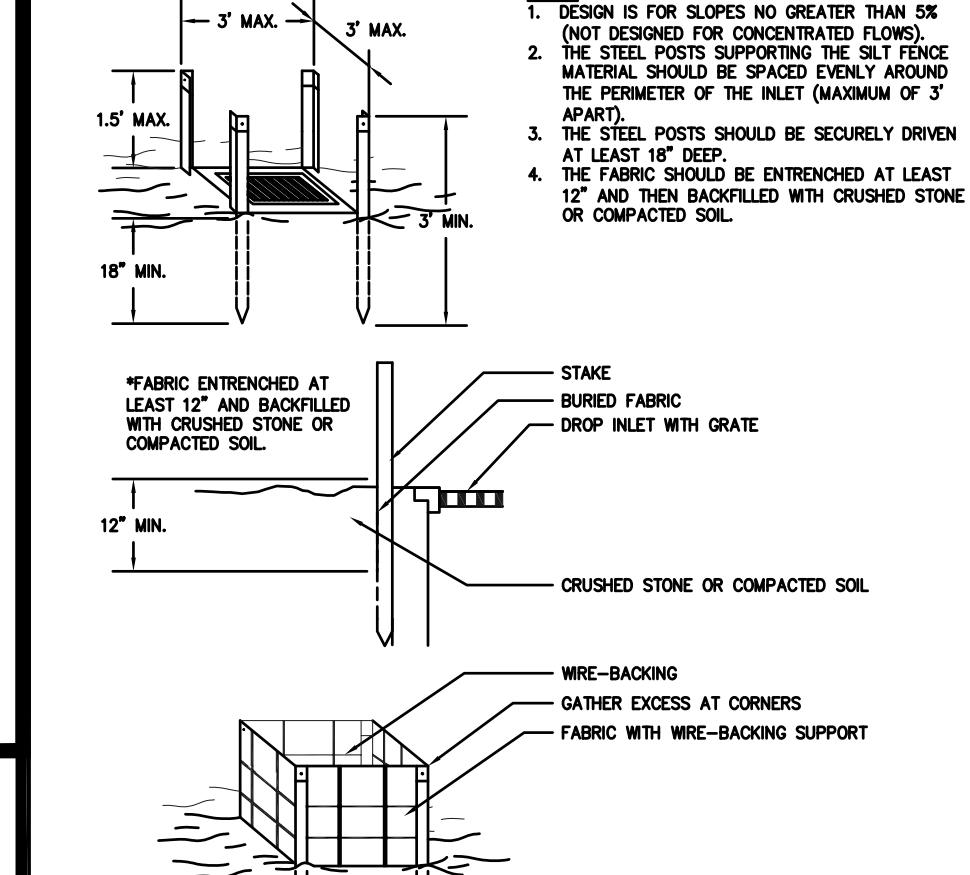
Sd2-F



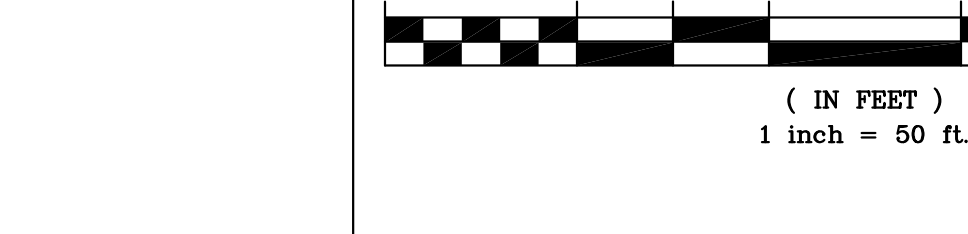
Sd2



Sd2-F



GRAPHIC SCALE



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FAX: 706-824-0519

GEORGIA
REGISTERED PROFESSIONAL ENGINEER
No. 029212
Dual ID: B. Clerici
GSWCC LEVEL II
CERTIFICATION # 804

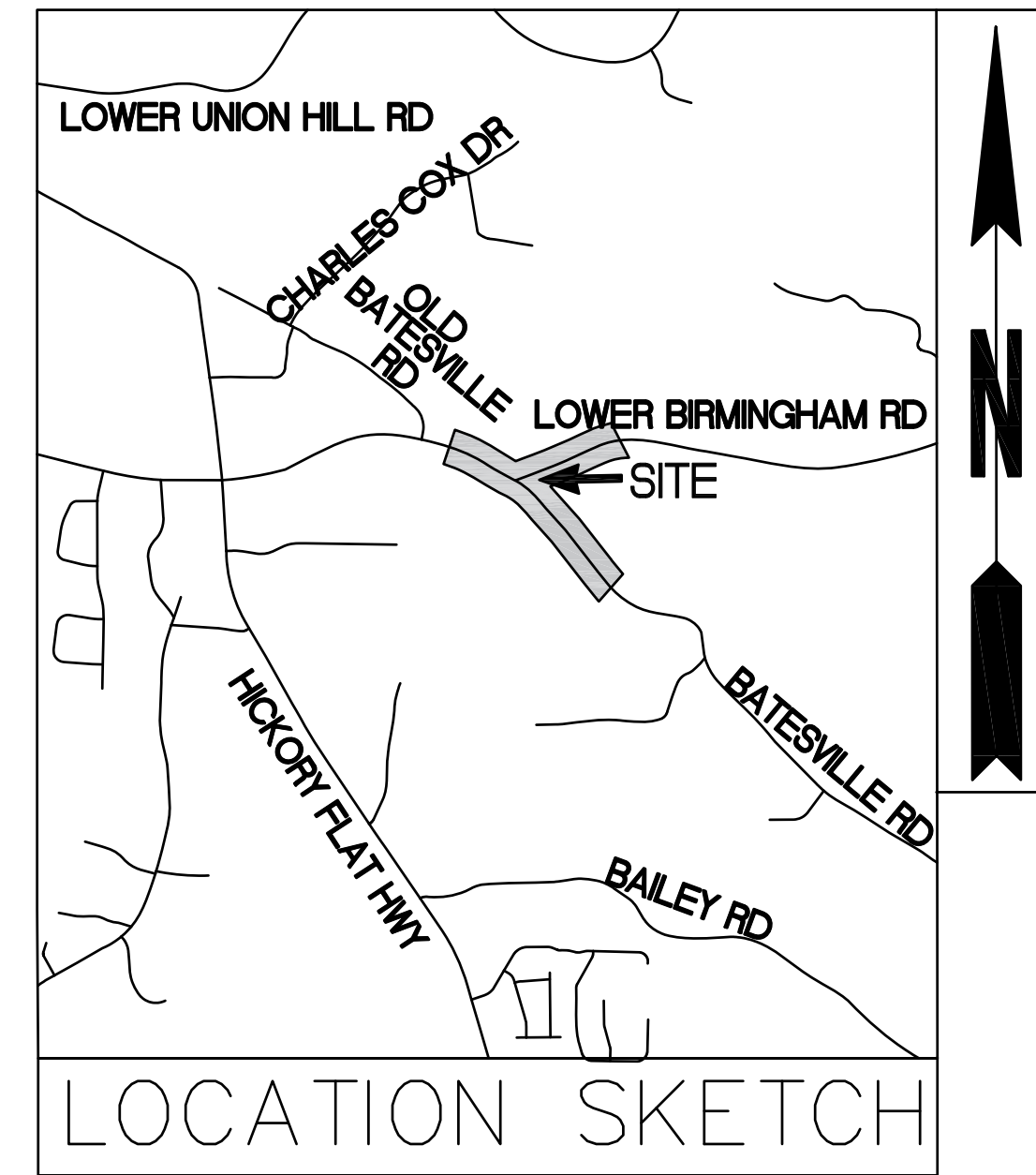
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

EROSION CONTROL DETAILS

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. 56-01

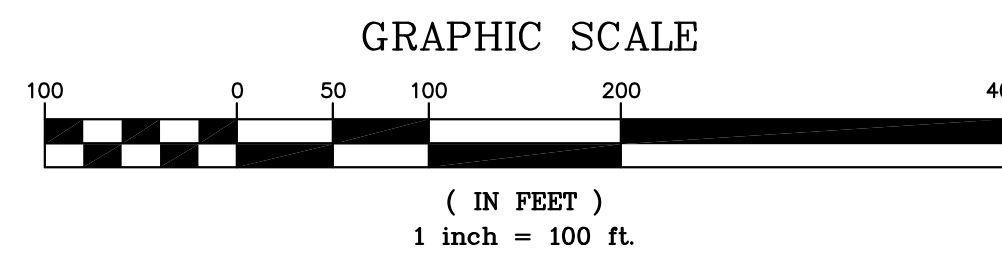
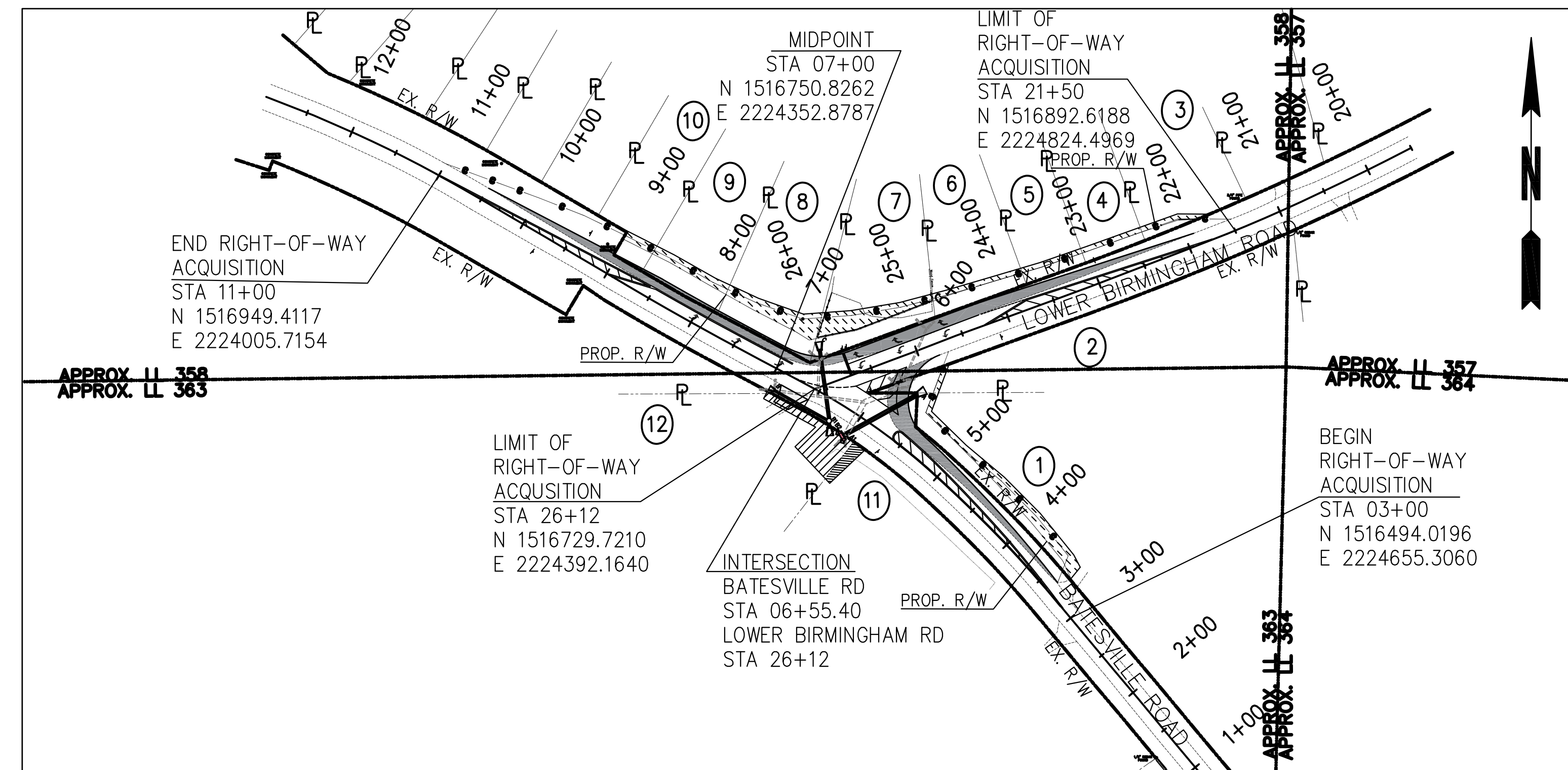


BATESVILLE RD
 GPS Location of Project Beginning:
 34.17 N, 84.40 W
 GPS Location of Project Ending:
 34.17 N, 84.41 W

LOWER BIRMINGHAM RD
 GPS Location of Project Beginning:
 34.17 N, 84.40 W
 GPS Location of Project Ending:
 34.17 N, 84.41 W

CHEROKEE COUNTY DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY OF PROPOSED INTERSECTION IMPROVEMENTS FOR BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD



NOTE:
 ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO ARTICLES 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND ANY MODIFICATIONS THEREOF, WHICH WILL BE A PART OF THIS CONTRACT.

ALL WORK TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION OF GEORGIA, CURRENT EDITION, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

BEGIN
 RIGHT-OF-WAY
 ACQUISITION
 STA 03+00
 N 1516494.0196
 E 2224655.3060

LIMIT OF
 RIGHT-OF-WAY
 ACQUISITION
 STA 26+12
 N 1516729.7210
 E 2224392.1640

INTERSECTION
 BATESVILLE RD
 STA 06+55.40
 LOWER BIRMINGHAM RD
 STA 26+12

APPROX. LL 358
 APPROX. LL 363

APPROX. LL 357
 APPROX. LL 384

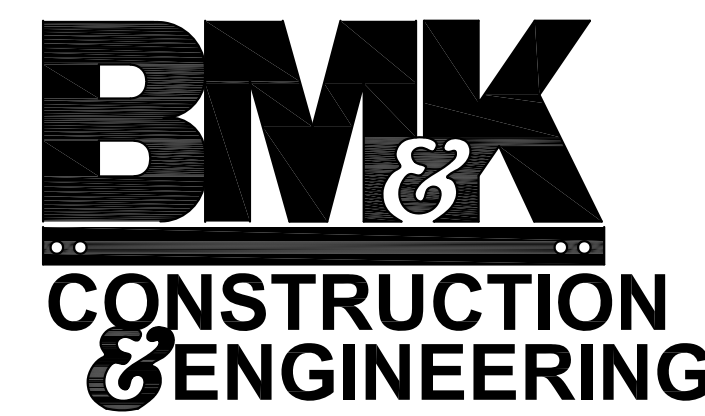
PREPARED BY : DON CLERICI

THIS PROJECT IS LOCATED 100% IN CHEROKEE COUNTY AND CONGRESSIONAL DISTRICT 11.
 PROJECT DESIGNATION: LOCAL
 FUNCTIONAL CLASSIFICATION: LOCAL
 ROADWAY CLASSIFICATION: BATESVILLE ROAD - MINOR ARTERIAL
 LOWER BIRMINGHAM ROAD - MINOR ARTERIAL

THIS PROJECT WAS PREPARED USING THE FOLLOWING HORIZONTAL AND VERTICAL DATUM:
 HORIZONTAL - NAD83
 VERTICAL - NAVD88

LENGTH OF PROJECT:	MILES
NET LENGTH OF ROADWAY	0.24
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.24
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.24

DESIGN DATA:
 BATESVILLE RD:
 SPEED DESIGN: 35 MPH
 PROPOSED SPEED: 35 MPH
 POSTED SPEED: 35 MPH
 LOWER BIRMINGHAM RD:
 SPEED DESIGN: 35 MPH
 PROPOSED SPEED: 35 MPH
 POSTED SPEED: 35 MPH



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 BRASSETON, GA 30517
 BUSINESS: 706-824-0514
 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

PLANS COMPLETED

REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

RIGHT OF WAY COVER SHEET
 BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

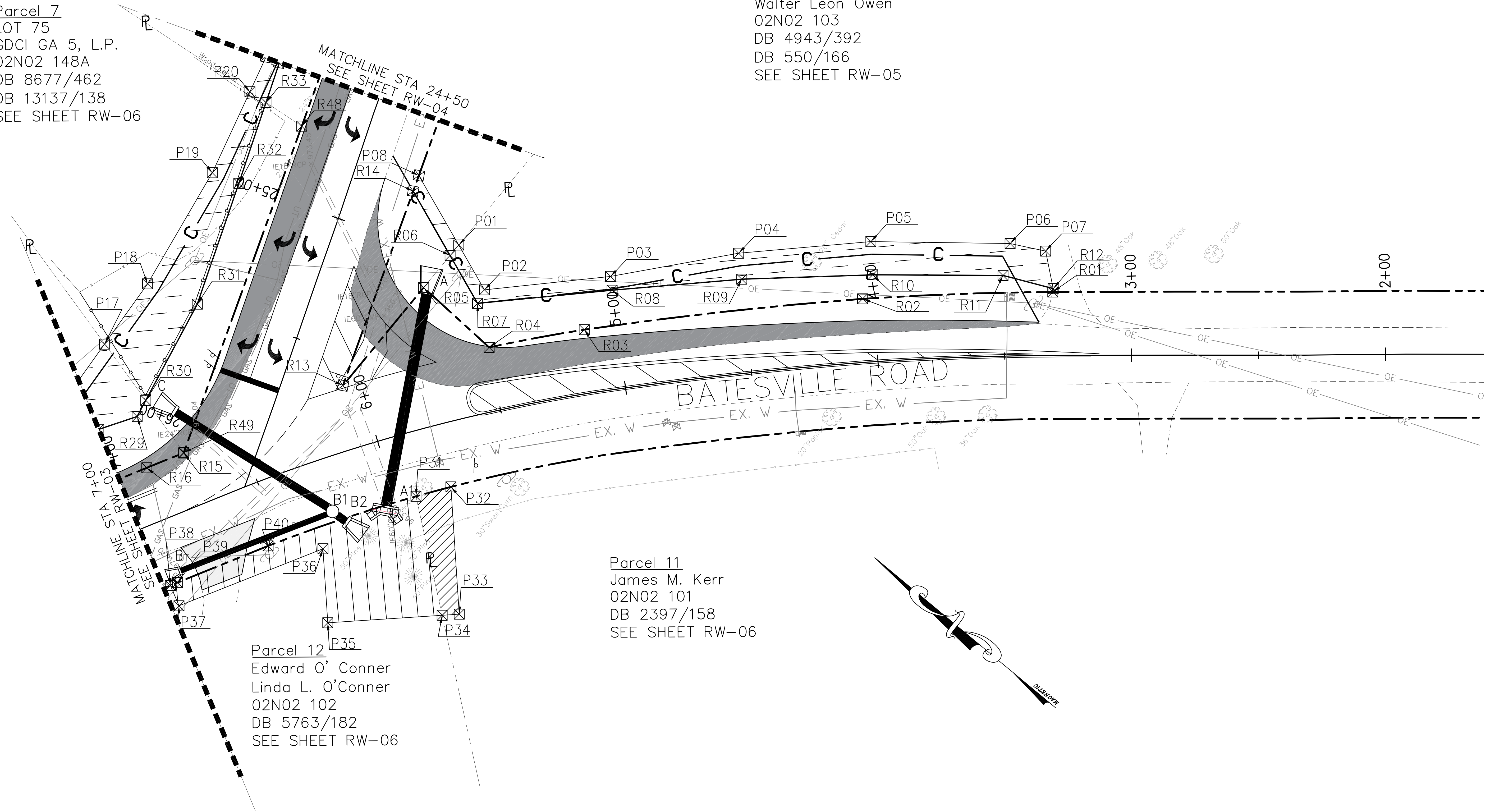
DRAWING NO.
 RW-01

Parcel 7
 LOT 75
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138
 SEE SHEET RW-06

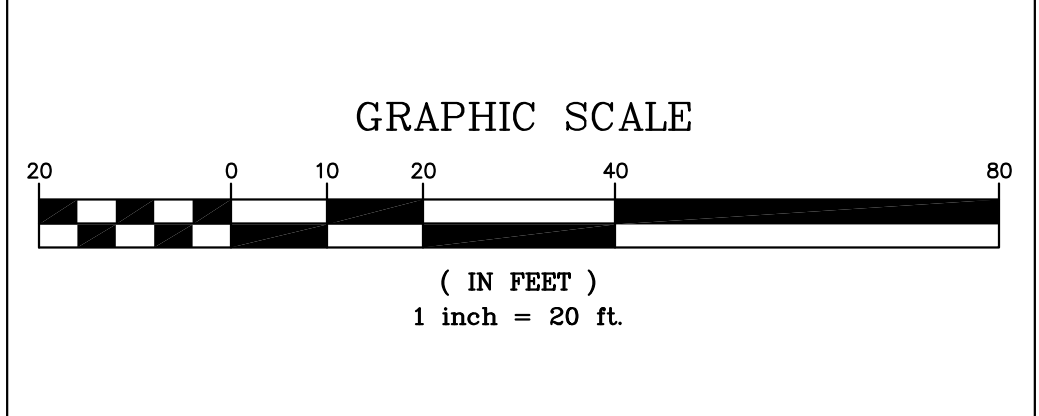
Parcel 1
 Walter Leon Owen
 02N02 103
 DB 4943/392
 DB 550/166
 SEE SHEET RW-05

Parcel 11
 James M. Kerr
 02N02 101
 DB 2397/158
 SEE SHEET RW-06

Parcel 12
 Edward O' Conner
 Linda L. O'Conner
 02N02 102
 DB 5763/182
 SEE SHEET RW-06



PROPERTY AND EX R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTRUCTION OF SLOPES	
EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	



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CONSTRUCTION & ENGINEERING

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 FAX: 706-824-0519

GSWCC LEVEL II
 CERTIFICATION # 804

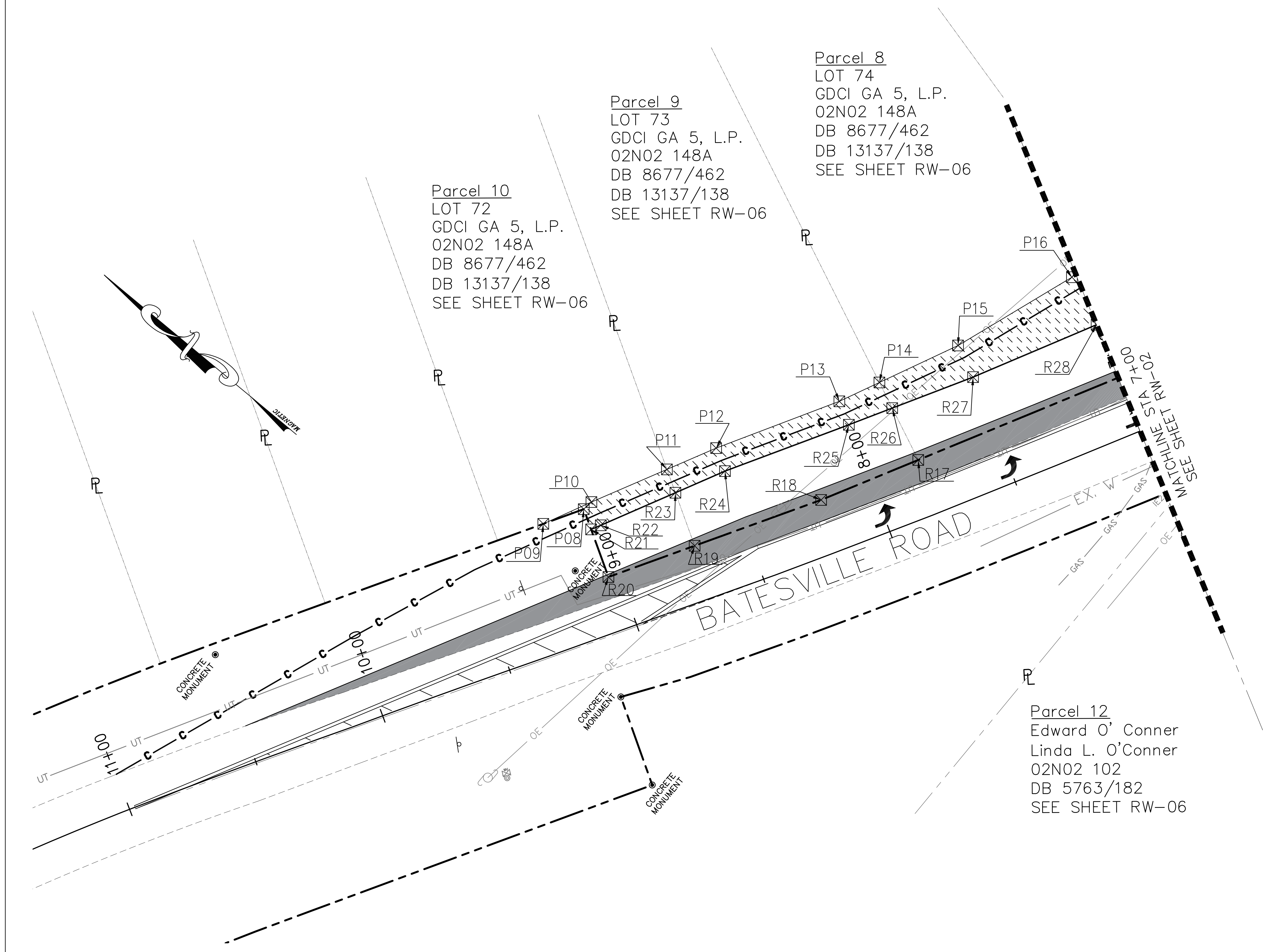
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

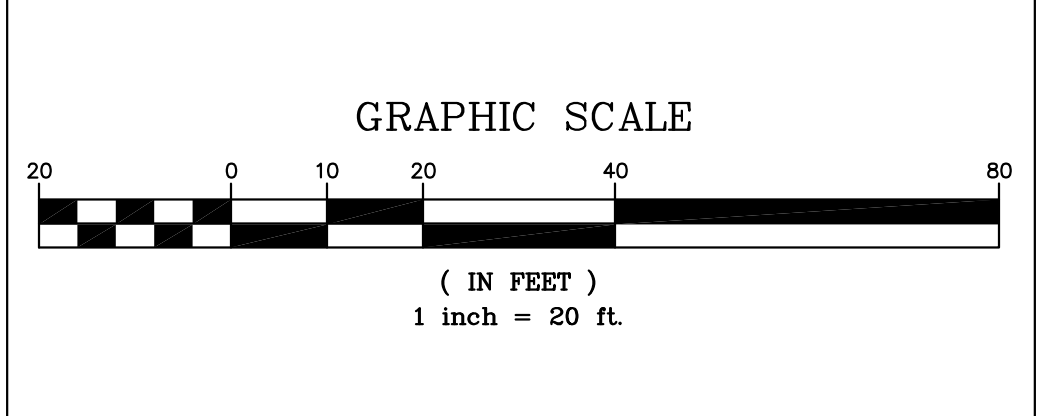
RIGHT OF WAY PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. RW-02



PROPERTY AND EX R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTRUCTION OF SLOPES	
EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	



BMK & ENGINEERING

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FAX: 706-824-0519

GEORGIA REGISTERED PROFESSIONAL ENGINEER
Dana D. B. Clerici
GSWCC LEVEL II
CERTIFICATION # 804

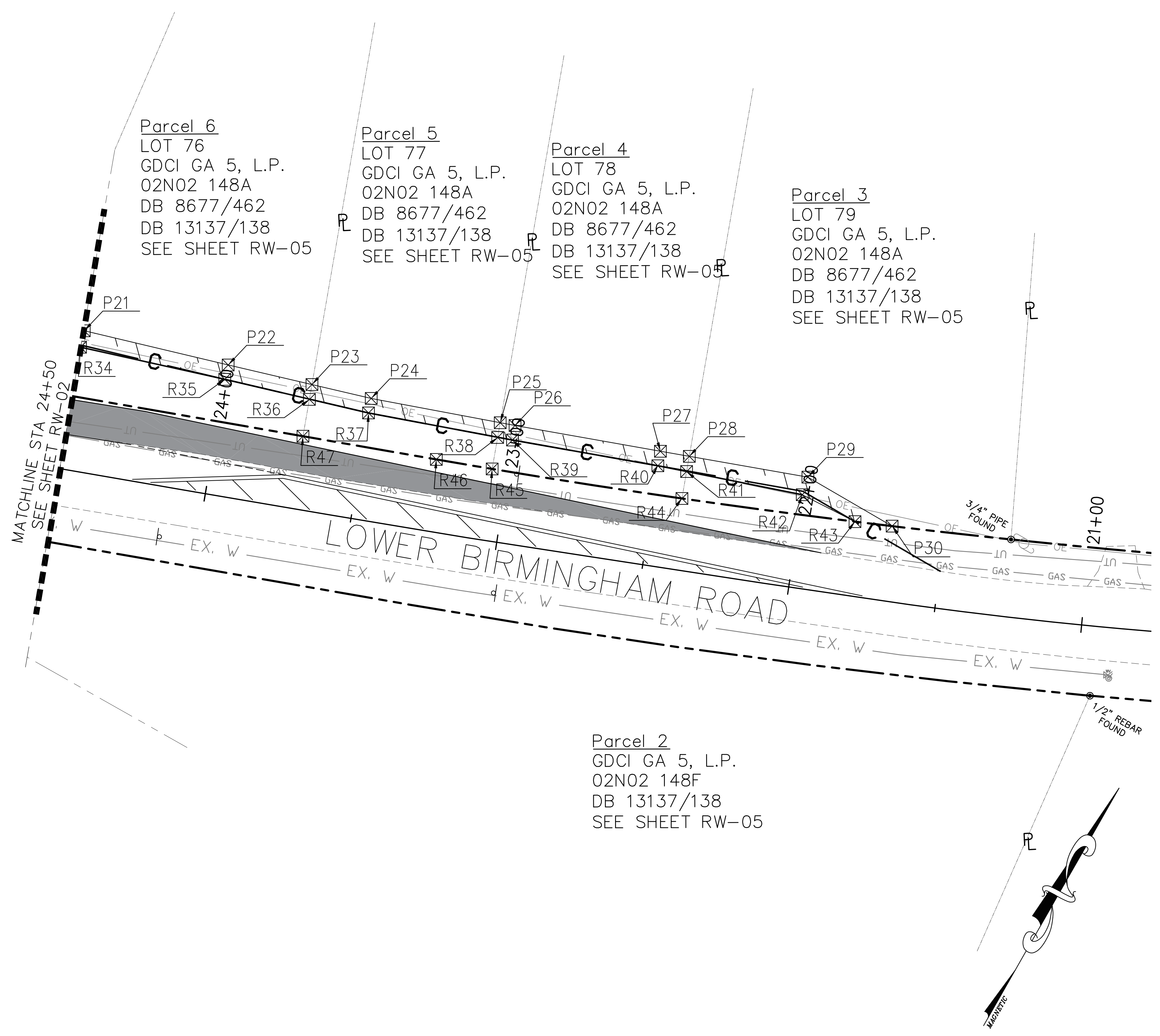
PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

RIGHT OF WAY PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. **RW-03**



Parcel 6
 LOT 76
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138
 SEE SHEET RW-05

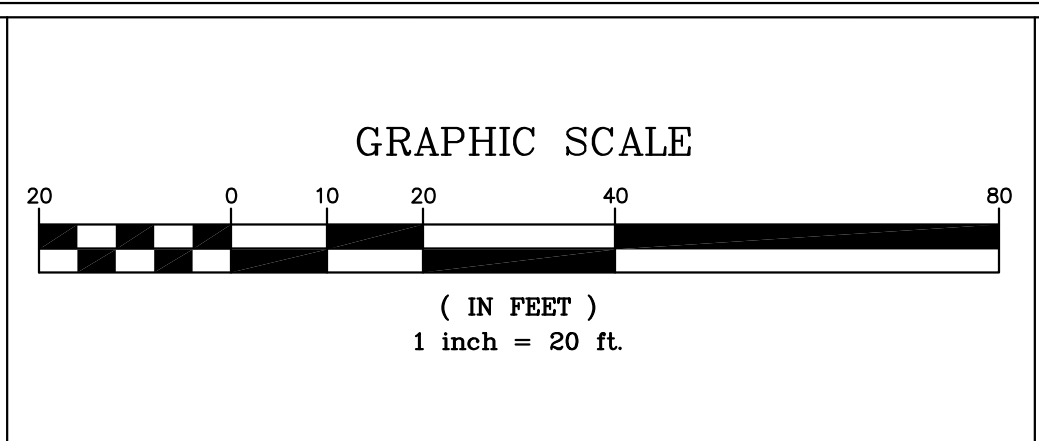
Parcel 5
 LOT 77
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138
 SEE SHEET RW-05

Parcel 4
 LOT 78
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138
 SEE SHEET RW-05

Parcel 3
 LOT 79
 GDCI GA 5, L.P.
 02N02 148A
 DB 8677/462
 DB 13137/138
 SEE SHEET RW-05

Parcel 2
 GDCI GA 5, L.P.
 02N02 148F
 DB 13137/138
 SEE SHEET RW-05

PROPERTY AND EX R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTRUCTION OF SLOPES	
EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	



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 FAX: 706-824-0519

GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 David B. Clerici
 GSICC LEVEL II
 CERTIFICATION # 804

PLANS COMPLETED	
REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS
12/20/17	CHEROKEE COUNTY COMMENTS

Cherokee County Department of Transportation

RIGHT OF WAY PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO. RW-04

Required R/W- Parcel 1					
Point	Station	Offset	Distance	Bearing	Alignment
R01	03+30.90	24.99 R	CL: 74.99' /AL: 75.00'/ R: 1297.37'/D: 4°24'59"	N 41°46'51" W	Batesville Rd
R02	04+04.31	25.00 R	CL: 110.33'/AL: 110.35'/ R: 1590.14'/D: 3°36'12"	N 46°01'28" W	Batesville Rd
R03	05+12.65	25.00 R	CL: 38.11' /AL: 38.11'/ R: 688.70' /D: 8°19'10"	N 50°15'56" W	Batesville Rd
R04	05+49.23	24.99 R	34.94'	N 02°43'22" E	Batesville Rd
R05	05+67.97	53.77 R	16.36'	N 89°46'28" E	Batesville Rd
R06	05+55.99	63.69 R	21.74'	S 20°27'07" W	Batesville Rd
R07	05+49.98	42.93 R	53.27'	S 45°17'23" E	Batesville Rd
R08	05+00.00	38.84 R	51.24'	S 44°33'36" E	Batesville Rd
R09	04+49.99	37.00 R	51.60'	S 41°36'55" E	Batesville Rd
R10	04+00.00	34.19 R	51.35'	S 39°25'57" E	Batesville Rd
R11	03+50.00	31.80 R	20.44'	S 25°02'47" E	Batesville Rd
R12	03+30.74	26.33 R	1.33'	S 56°31'06" W	Batesville Rd
R01	03+30.90	24.99 R			Batesville Rd

Required R/W: 2,810.61 SF
Required R/W: 0.065 AC

Temporary Easements- Parcel 1					
Point	Station	Offset	Distance	Bearing	Alignment
R12	03+30.74	26.33 R	20.44'	N 25°02'47" W	Batesville Rd
R11	03+50.00	31.80 R	51.35'	N 39°25'57" W	Batesville Rd
R10	04+00.00	34.19 R	51.60'	N 41°26'55" W	Batesville Rd
R09	04+49.99	37.00 R	51.24'	N 44°33'36" W	Batesville Rd
R08	05+00.00	38.84 R	53.27'	N 45°17'23" W	Batesville Rd
R07	05+49.98	42.93 R	21.74'	N 20°27'07" E	Batesville Rd
R06	05+55.99	63.69 R	5.34'	N 89°46'28" E	Batesville Rd
P01	05+52.17	66.92 R	20.36'	S 20°27'07" W	Batesville Rd
P02	05+46.48	47.55 R	49.81'	S 45°47'04" E	Batesville Rd
P03	04+99.85	44.32 R	51.43'	S 49°57'50" E	Batesville Rd
P04	04+50.14	47.30 R	52.30'	S 44°44'05" E	Batesville Rd
P05	03+99.88	47.31 R	54.85'	S 38°53'41" E	Batesville Rd
P06	03+47.01	44.29 R	14.31'	S 27°40'18" E	Batesville Rd
P07	03+33.54	41.22 R	15.05'	S 38°54'55" W	Batesville Rd
R12	03+30.74	26.33 R			Batesville Rd

Required Temp. Easements: 2,299.29 SF
Required Temp. Easements: 0.053 AC

Required R/W- Parcel 2					
Point	Station	Offset	Distance	Bearing	Alignment
R13	25+66.63	23.33 R	81.40'	N 70°09'39" E	Lower Birmingham Rd
R14	24+80.39	24.49 R	29.21'	S 20°27'07" W	Lower Birmingham Rd
R06	05+55.99	63.69 R	16.36'	S 89°46'28" W	Batesville Rd
R05	05+67.97	53.77 R	50.00'	S 89°46'28" W	Batesville Rd
R13	25+66.63	23.33 R			Lower Birmingham Rd

Required R/W: 906.67 SF
Required R/W: 0.021 AC

Temporary Easements- Parcel 2					
Point	Station	Offset	Distance	Bearing	Alignment
R14	24+80.39	24.49 R	6.56'	N 70°09'39" E	Lower Birmingham Rd
P08	24+73.81	24.69 R	31.56'	S 20°27'07" W	Lower Birmingham Rd
P01	05+52.17	66.92 R	5.34'	S 89°46'28" W	Batesville Rd
R06	05+55.99	63.69 R	29.21'	N 20°27'07" E	Batesville Rd
R14	24+80.39	24.49 R			Lower Birmingham Rd

Required Temp. Easements: 151.91 SF
Required Temp. Easements: 0.003 AC

Required R/W- Parcel 3					
Point	Station	Offset	Distance	Bearing	Alignment
R43	21+81.00	25.12 R	CL: 59.11' /AL: 59.11'/ R: 2,902.74' /D:	01°58'26"	Lower Birmingham Rd
R44	22+40.27	24.18 R	9.26'	S 67°54'56" W	Lower Birmingham Rd
R41	22+40.09	33.44 R	39.92'	N 19°51'08" W	Lower Birmingham Rd
R42	22+00.00	31.55 R	20.06'	N 71°38'02" E	Lower Birmingham Rd
R43	21+81.00	25.12 R		N 87°19'23" E	Lower Birmingham Rd

Required R/W: 387.67 SF
Required R/W: 0.009 AC

Temporary Easements- Parcel 3					
Point	Station	Offset	Distance	Bearing	Alignment
P30	21+68.35	25.43 R	CL: 12.65' /AL: 12.65'/ R: 2902.74' /D:	01°58'26"	Lower Birmingham Rd
R43	21+81.00	25.15 R	20.06'	S 87°19'23" W	Lower Birmingham Rd
R42	22+00.00	31.55 R	39.42'	S 71°38'02" W	Lower Birmingham Rd
R41	22+40.09	33.44 R	5.24'	N 19°51'08" W	Lower Birmingham Rd
P28	22+39.95	38.67 R	40.78'	N 70°15'59" E	Lower Birmingham Rd
P29	21+98.97	37.73 R	32.98'	S 89°31'12" E	Lower Birmingham Rd
P30	21+68.35	25.43 R			Lower Birmingham Rd

Required Temp. Easements: 375.06 SF
Required Temp. Easements: 0.009 AC

Required R/W- Parcel 4					
Point	Station	Offset	Distance	Bearing	Alignment
R44	22+40.27	24.15 R	CL: 65.01' /AL: 65.01'/ R: 2902.74' /D:	01°58'26"	Lower Birmingham Rd
R45	23+05.30	24.30 R	10.84'	S 69°08'26" W	Lower Birmingham Rd
R38	23+05.09	35.12 R	5.09'	N 19°51'08" W	Lower Birmingham Rd
R39	23+00.00	35.02 R	49.99'	N 70°19'49" E	Lower Birmingham Rd
R40	22+50.00	33.89 R	9.92'	N 71°38'02" E	Lower Birmingham Rd
R41	22+40.09	33.44 R	9.26'	S 19°51'08" E	Lower Birmingham Rd
R44	22+40.27	24.18 R			Lower Birmingham Rd

Required R/W: 667.35 SF
Required R/W: 0.015 AC

Temporary Easements- Parcel 4					
Point	Station	Offset	Distance	Bearing	Alignment
R41	22+40.09	33.44 R	9.92'	S 71°38'02" W	Lower Birmingham Rd
R40	22+50.00	33.89 R	49.99'	S 70°19'49" W	Lower Birmingham Rd
R39	23+00.00	35.02 R	5.09'	S 70°56'40" W	Lower Birmingham Rd
R38	23+05.69	35.12 R	5.00'	N 19°51'08" W	Lower Birmingham Rd
P25	23+05.00	40.16 R	5.14'	N 70°56'40" E	Lower Birmingham Rd
P26	22+99.89	40.02 R	49.96'	N 70°19'49" E	Lower Birmingham Rd
P27	22+49.88	38.89 R	9.90'	N 70°15'59" W	Lower Birmingham Rd
P28	22+39.95	38.67 R	5.24'	S 19°51'08" E	Lower Birmingham Rd
R41	22+40.09	33.44 R			Lower Birmingham Rd

Required Temp. Easements: 326.18 SF
Required Temp. Easements: 0.007 AC

Required R/W- Parcel 5					
Point	Station	Offset	Distance	Bearing	Alignment
R45	23+05.30	24.30 R	CL: 19.18' /AL: 19.18'/ R: 2902.74' /D:	01°58'26"	Lower Birmingham Rd
R46	23+24.77	24.43 R	45.82'	S 69°58'17" W	Lower Birmingham Rd
R47	23+70.68	24.72 R	12.75'	S 70°09'39" W	Lower Birmingham Rd
R47	23+70.68	24.72 R	12.75'	N 19°51'08" W	Lower Birmingham Rd
R36	23+70.63	37.35 R	20.54'	N 73°28'22" E	Lower Birmingham Rd
R37	23+50.00	36.18 R	44.89'	N 70°56'40" E	Lower Birmingham Rd
R38	23+05.09	35.12 R	10.89'	S 19°51'08" E	Lower Birmingham Rd
R45	23+05.30	24.30 R			Lower Birmingham Rd

Required R/W: 749.76 SF
Required R/W: 0.017 AC

Temporary Easements- Parcel 5					
Point	Station	Offset	Distance	Bearing	Alignment
R38	23+05.09	35.12 R	44.89'	S 70°56'40" W	Lower Birmingham Rd
R37	23+50.00	36.18 R	20.54'	S 73°28'22" W	Lower Birmingham Rd
R36	23+70.63	37.35 R	5.01'	N 19°51'08" W	Lower Birmingham Rd
R23	23+70.61	42.48 R	20.72'	N 73°28'22" E	Lower Birmingham Rd
P24	23+49.89	41.18 R	44.31'	N 70°56'40" E	Lower Birmingham Rd
P25	23+05.00	40.16 R	5.00'	S 19°51'08" E	Lower Birmingham Rd
R38	23+05.09	35.12 R			Lower Birmingham Rd

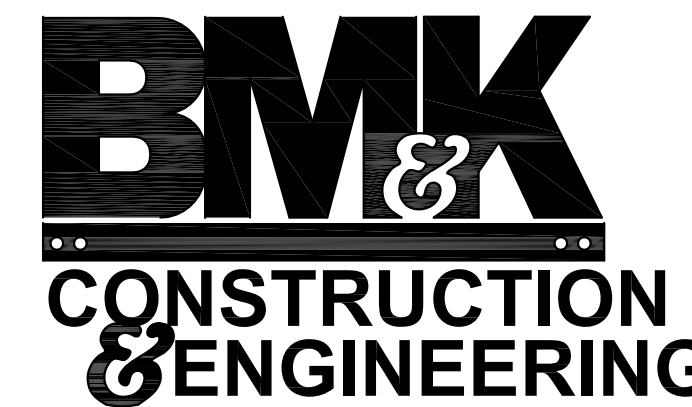
Required Temp. Easements: 325.20 SF
Required Temp. Easements: 0.007 AC

Required R/W- Parcel 6					
Point	Station	Offset	Distance	Bearing	Alignment
R47	23+70.68	24.72 R	99.91'	S 70°09'39" W	Lower Birmingham Rd
R48	24+69.99	25.33 R	16.89'	N 06°12'23" W	Lower Birmingham Rd
R33	24+65.67	41.56 R	16.58'	N 68°52'02" E	Lower Birmingham Rd
R34	24+50.00	41.70 R	50.03'	N 72°50'25" E	Lower Birmingham Rd
R35	24+00.00	39.29 R	29.43'	N 73°28'22" E	Lower Birmingham Rd
R36	23+70.63	37.85 R	12.75'	S 19°51'08" E	Lower Birmingham Rd
R47	23+70.68	24.72 R			Lower Birmingham Rd

Required R/W: 1,487.89 SF
Required R/W: 0.034 AC

Temporary Easements- Parcel 6					
Point	Station	Offset	Distance	Bearing	Alignment
R36	23+70.63	37.35 R	29.43'	S 73°28'22" W	Lower Birmingham Rd
R35	24+00.00	39.29 R	50.03'	S 72°50'25" W	Lower Birmingham Rd
R34	24+50.00	41.70 R	16.58'	S 68°52'02" E	Lower Birmingham Rd
R33	24+65.67	41.56 R	7.62'	N 06°12'23" W	Lower Birmingham Rd
P20	24+63.72	48.76 R	15.20'	N 75°09'52" E	Lower Birmingham Rd
P21	24+49.69	47.40 R	50.00'	N 73°39'47" E	Lower Birmingham Rd
P22	23+99.67	44.26 R	29.13'	N 73°28'22" E	Lower Birmingham Rd
P23	23+70.61	42.48 R	5.01'	S 19°51'08" E	Lower Birmingham Rd
R36	23+70.63	37.35 R			Lower Birmingham Rd

Required Temp. Easements: 518.92 SF
Required Temp. Easements: 0.012 AC



PO BOX 878
BRASELTON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519



GSWCC LEVEL II
CERTIFICATION # 804

PLANS COMPLETED

REVISIONS	
02/20/17	CHEROKEE COUNTY COMMENTS RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

RIGHT OF WAY PLAN

BATESVILLE ROAD AND LOWER BIRMINGHAM ROAD INTERSECTION IMPROVEMENT PROJECT

DRAWING NO.
RW-05

Point	Station	Offset	Distance	Bearing	Alignment
R48	24+69.99	25.33 R	136.70'	S 70°09'39" W	Lower Birmingham Rd
R49	06+72.53	21.56 R	25.43'	N 14°11'49" E	Batesville Rd
R30	06+78.70	46.12 R	42.98'	N 78°27'15" E	Batesville Rd
R31	25+50.00	51.38 R	50.32'	N 69°16'30" E	Lower Birmingham Rd
R32	25+00.00	41.58 R	33.61'	N 68°52'02" E	Lower Birmingham Rd
R33	24+65.67	41.56 R	16.89'	S 06°12'23" E	Lower Birmingham Rd
R48	24+69.99	25.33 R			Lower Birmingham Rd

Required R/W: 2,188.76 SF
 Required R/W: 0.050 AC

Point	Station	Offset	Distance	Bearing	Alignment
R33	24+65.67	41.56 R	33.61'	S 68°52'02" W	Lower Birmingham Rd
R32	25+00.00	41.58 R	50.32'	S 69°16'30" W	Lower Birmingham Rd
R31	25+50.00	51.38 R	42.98'	S 78°27'15" W	Lower Birmingham Rd
R30	06+78.70	46.12 R	27.51'	N 14°11'49" E	Batesville Rd
P17	06+85.55	72.83 R	29.09'	N 85°50'25" E	Batesville Rd
P18	25+48.80	62.50 R	50.89'	N 80°30'55" E	Lower Birmingham Rd
P19	24+99.29	52.80 R	34.91'	N 75°09'52" E	Lower Birmingham Rd
P20	24+63.72	48.76 R	7.62'	S 06°12'23" E	Lower Birmingham Rd
R33	24+65.67	41.56 R			Lower Birmingham Rd

Required Temp. Easements: 1,966.36 SF
 Required Temp. Easements: 0.045 AC

Point	Station	Offset	Distance	Bearing	Alignment
R49	06+72.53	21.56 R	0.22'	S 70°09'39" W	Batesville Rd
R15	06+73.68	21.39 R			Batesville Rd
R16	06+88.31	21.45 R	91.93'	N 61°32'37" W	Batesville Rd
R17	07+80.30	20.98 R	21.50'	N 23°38'24" E	Batesville Rd
R26	07+82.07	42.34 R	32.08'	S 60°41'22" E	Batesville Rd
R27	07+49.98	41.88 R	49.73'	S 62°42'00" E	Batesville Rd
R28	06+99.98	42.60 R	15.97'	S 58°15'03" E	Batesville Rd
R29	06+84.27	41.61 R	7.22'	N 78°27'15" E	Batesville Rd
R30	06+78.70	46.12 R	25.43'	S 14°11'49" W	Batesville Rd
R49	06+72.53	21.56 R			Batesville Rd

Required R/W: 2,228.22 SF
 Required R/W: 0.051 AC

Point	Station	Offset	Distance	Bearing	Alignment
R30	06+78.70	46.12 R	7.22'	S 78°27'15" E	Batesville Rd
R29	06+84.27	41.61 R	15.97'	N 58°15'03" W	Batesville Rd
R28	06+99.98	42.60 R	49.73'	N 62°42'00" W	Batesville Rd
R27	07+49.98	41.88 R	32.08'	N 60°41'22" W	Batesville Rd
R26	07+82.07	42.34 R	10.63'	N 23°38'24" E	Batesville Rd
P14	07+83.79	52.99 R	32.46'	S 64°53'52" E	Batesville Rd
P15	07+50.79	54.83 R	48.96'	S 70°41'06" E	Batesville Rd
P16	07+01.78	62.36 R	19.75'	N 85°50'25" E	Batesville Rd
P17	06+85.55	72.83 R	27.51'	S 14°11'49" W	Batesville Rd
R30	06+78.70	46.12 R			Batesville Rd

Required Temp. Easements: 1,700.42 SF
 Required Temp. Easements: 0.039 AC

Point	Station	Offset	Distance	Bearing	Alignment
R17	07+80.30	20.98 R	38.95'	N 62°04'51" W	Batesville Rd
R18	08+19.57	20.07 R	49.86'	N 59°37'39" W	Batesville Rd
R19	08+69.91	20.26 R	20.91'	N 30°21'34" E	Batesville Rd
R23	08+70.01	41.19 R	20.03'	S 63°17'12" E	Batesville Rd
R24	08+49.98	42.55 R	49.03'	S 60°13'22" E	Batesville Rd
R25	08+00.00	42.41 R	17.24'	S 60°41' 22" E	Batesville Rd
R26	07+82.07	42.34 R	21.50'	S 23°38'24" W	Batesville Rd
R17	07+80.30	20.98 R			Batesville Rd

Required R/W: 1,923.80 SF
 Required R/W: 0.044 AC

Point	Station	Offset	Distance	Bearing	Alignment
R26	07+82.07	42.34 R	17.24'	N 60°41'22" W	Batesville Rd
R25	08+00.00	42.41 R	49.03'	N 60°13'22" W	Batesville Rd
R24	08+49.98	42.55 R	20.03'	N 63°17'12" W	Batesville Rd
R23	08+70.01	41.19 R	9.21'	N 30°21'34" E	Batesville Rd
P11	08+70.01	50.40 R	19.86'	S 63°06'14" E	Batesville Rd
P12	08+50.21	51.69 R	48.86'	S 60°29'33" E	Batesville Rd
P13	08+00.18	51.78 R	16.41'	S 64°53'52" E	Batesville Rd
P14	07+83.79	52.99 R	10.63'	S 23°38'24" W	Batesville Rd
R26	07+82.07	42.34 R			Batesville Rd

Required Temp. Easements: 803.57 SF
 Required Temp. Easements: 0.018 AC

Point	Station	Offset	Distance	Bearing	Alignment
R19	08+69.91	20.26 R	33.99'	N 59°37'39" W	Batesville Rd
R20	09+03.82	20.17 R	18.74'	N 30°19'11" E	Batesville Rd
R21	09+03.89	38.94 R	3.90'	S 62°36'35" W	Batesville Rd
R22	09+00.00	39.16 R	30.18'	S 63°17'12" E	Batesville Rd
R23	08+70.01	41.19 R	20.91'	S 30°21'34" W	Batesville Rd
R19	08+69.91	20.26 R			Batesville Rd

Required R/W: 674.10 SF
 Required R/W: 0.015 AC

Point	Station	Offset	Distance	Bearing	Alignment
R23	08+70.01	41.19 R	30.18'	N 63°17'12" W	Batesville Rd
R22	09+00.00	39.16 R	3.90'	N 62°36'35" W	Batesville Rd
R21	09+03.89	38.94 R	7.99'	N 30°19'11" E	Batesville Rd
P08	09+03.91	46.93 R	15.96'	N 59°40'49" W	Batesville Rd
P09	09+19.88	46.89 R	19.58'	S 64°04'34" E	Batesville Rd
P10	09+00.36	48.45 R	30.50'	S 63°06'14" E	Batesville Rd
P11	08+70.01	50.40 R	9.21'	S 30°21'34" W	Batesville Rd
R23	08+70.01	41.19 R			Batesville Rd

Required Temp. Easements: 324.74 SF
 Required Temp. Easements: 0.007 AC

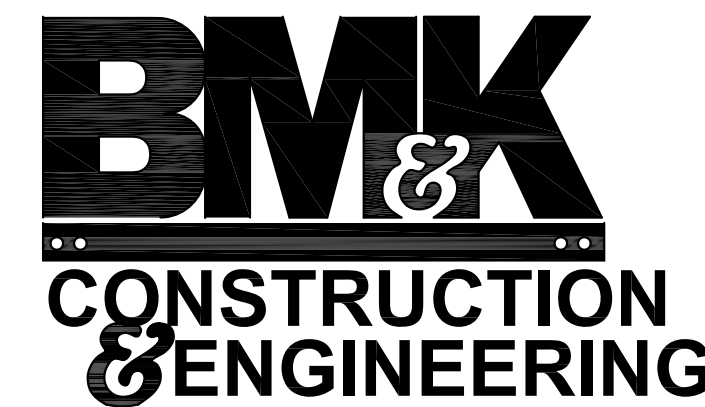
Point	Station	Offset	Distance	Bearing	Alignment
P31	05+91.38	25.00 L			Batesville Rd
P32	05+76.56	25.00 L	50.27'	S 54°50'44" E	Batesville Rd
P33	05+87.13	74.31 L	6.75'	N 43°27'39" W	Batesville Rd
P34	05+94.54	72.91 L	48.00'	N 37°52'29" E	Batesville Rd
P31	05+91.38	25.00 L			Batesville Rd

Required Perm. Easements: 511.73 SF
 Required Perm Easements: 0.012 AC

Point	Station	Offset	Distance	Bearing	Alignment
P31	05+91.38	25.00 L	48.00'	S 37°52'29" W	Batesville Rd
P34	05+94.54	72.91 L	45.15'	N 43°27'39" W	Batesville Rd
P35	06+43.22	61.68 L	29.23'	N 46°32'21" E	Batesville Rd
P36	06+34.45	33.61 L	61.00'	N 61°18'39" W	Batesville Rd
P37	06+97.12	33.71 L	8.72'	N 27°27'02" E	Batesville Rd
P38	06+97.20	25.00 L	3.02'	S 61°59'57" E	Batesville Rd
P39	06+95.94	25.00 L	38.50'	S 61°43'01" E	Batesville Rd

CL: 61.44' / AL: 61.46' /
 R: 638.70' / D: 8°58'15" S 58°14'45" E Batesville Rd

Required Perm. Easements: 2,355.46 SF
 Required Perm. Easements: 0.054 AC



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 FAX: 706-824-0519



GSWCC LEVEL II
 CERTIFICATION # 804

PLANS COMPLETED

REVISIONS	CHEROKEE COUNTY COMMENTS
02/20/17	RIGHT-OF-WAY PLANS UPDATED
04/24/17	CHEROKEE COUNTY COMMENTS
05/05/17	FINAL SET
05/15/17	REVISED FINAL SET PER COUNTY COMMENTS

Cherokee County Department of Transportation

RIGHT OF WAY PLAN

BATESVILLE ROAD AND LOWER
 BIRMINGHAM ROAD INTERSECTION
 IMPROVEMENT PROJECT

DRAWING NO.
 RW-06